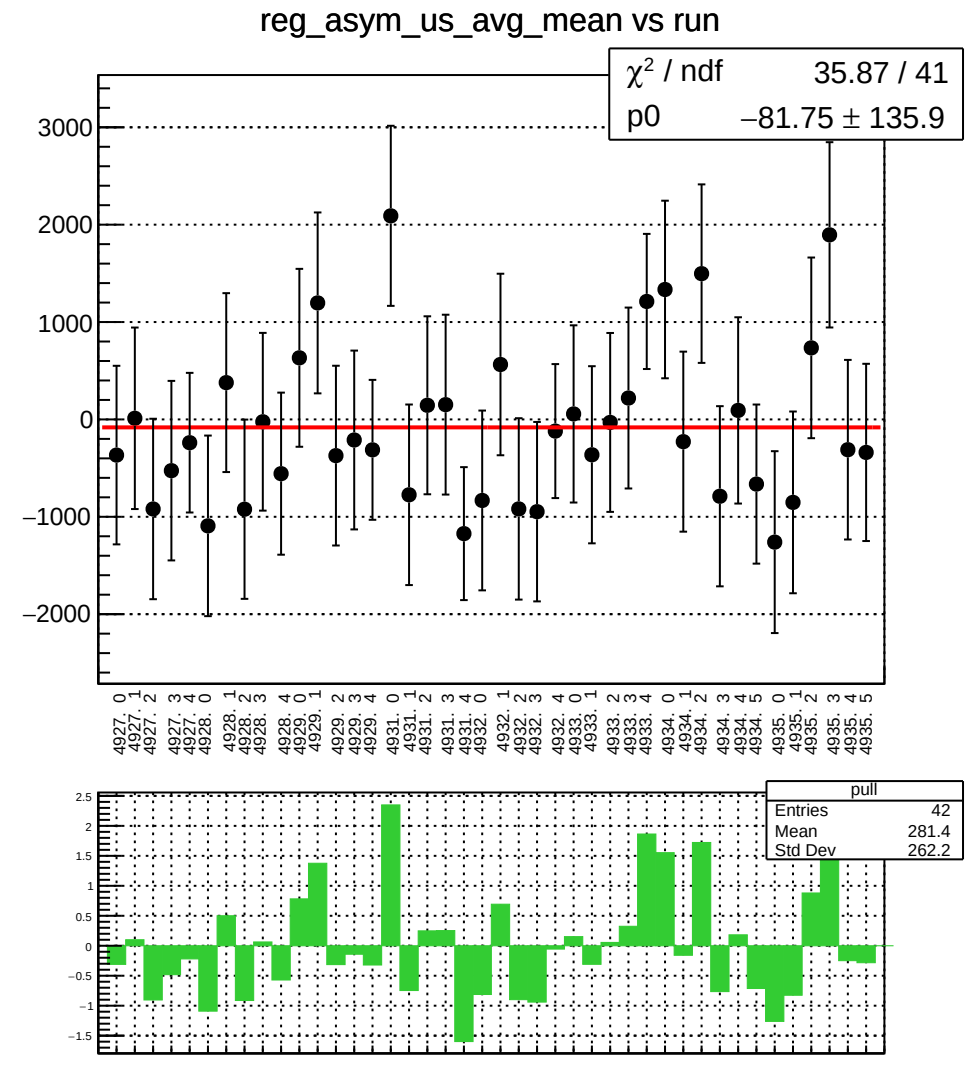
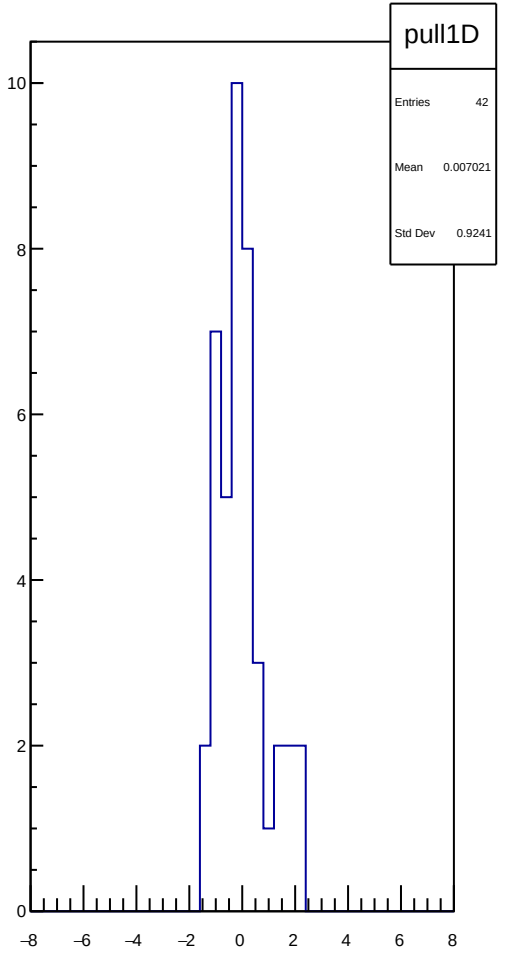
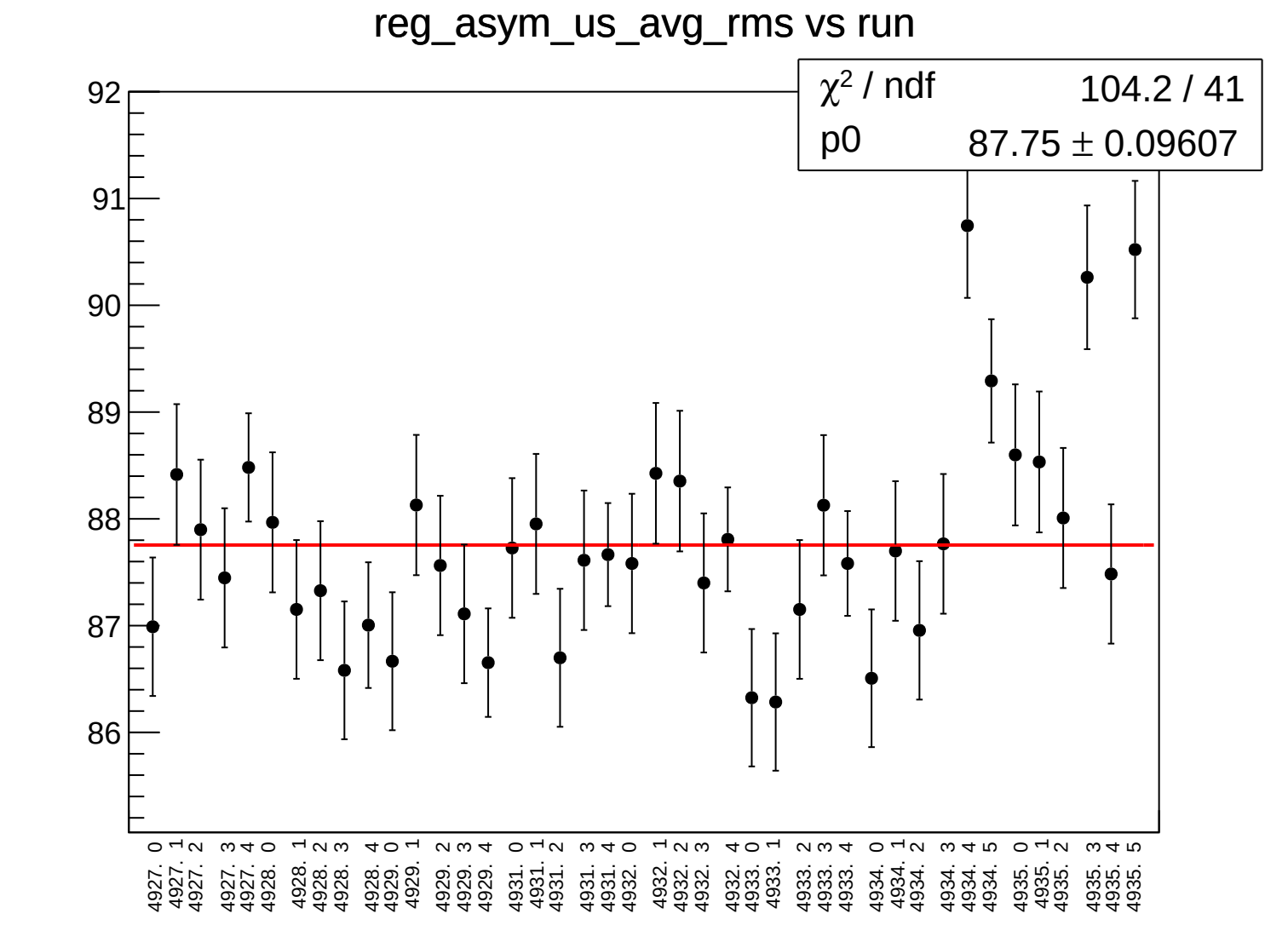
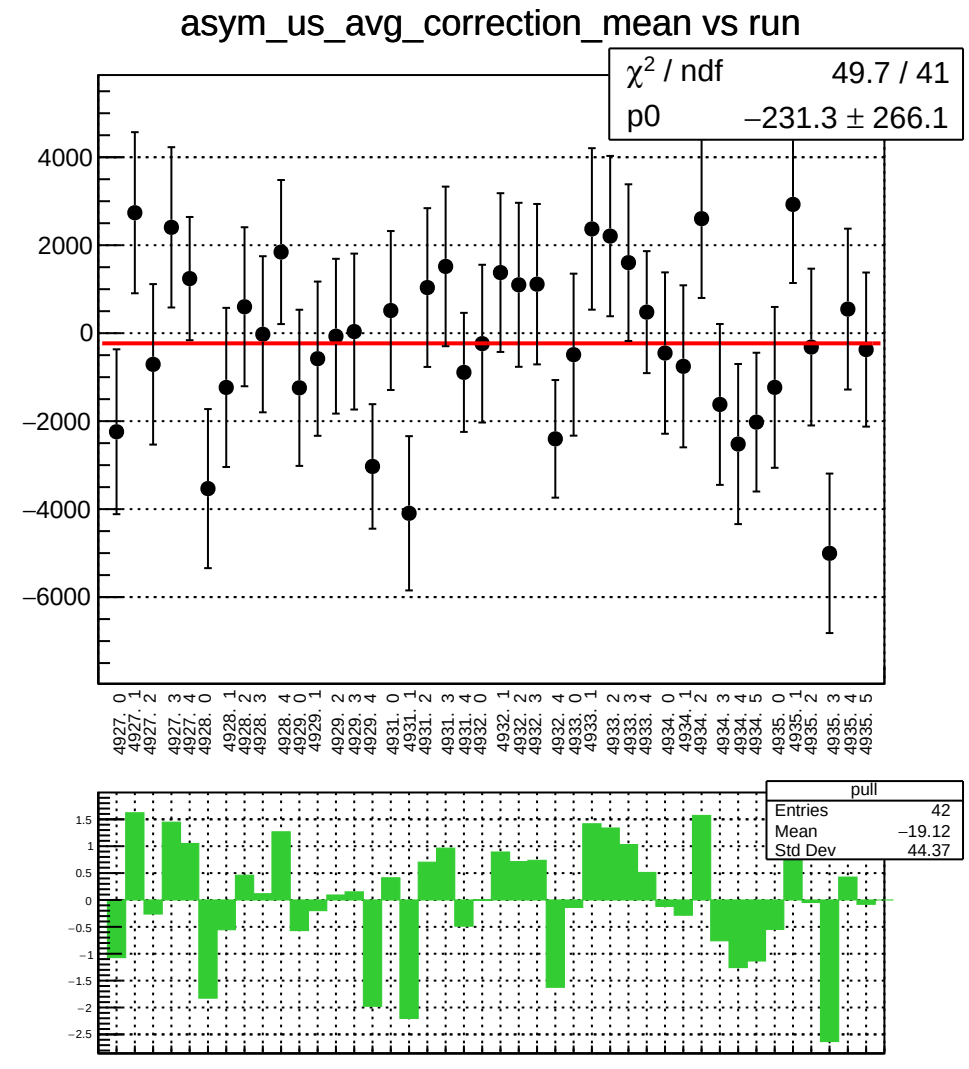
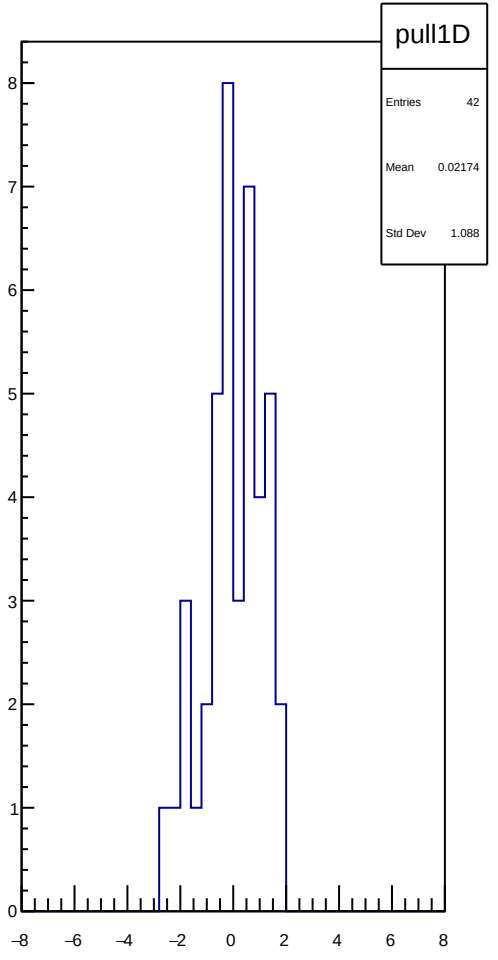
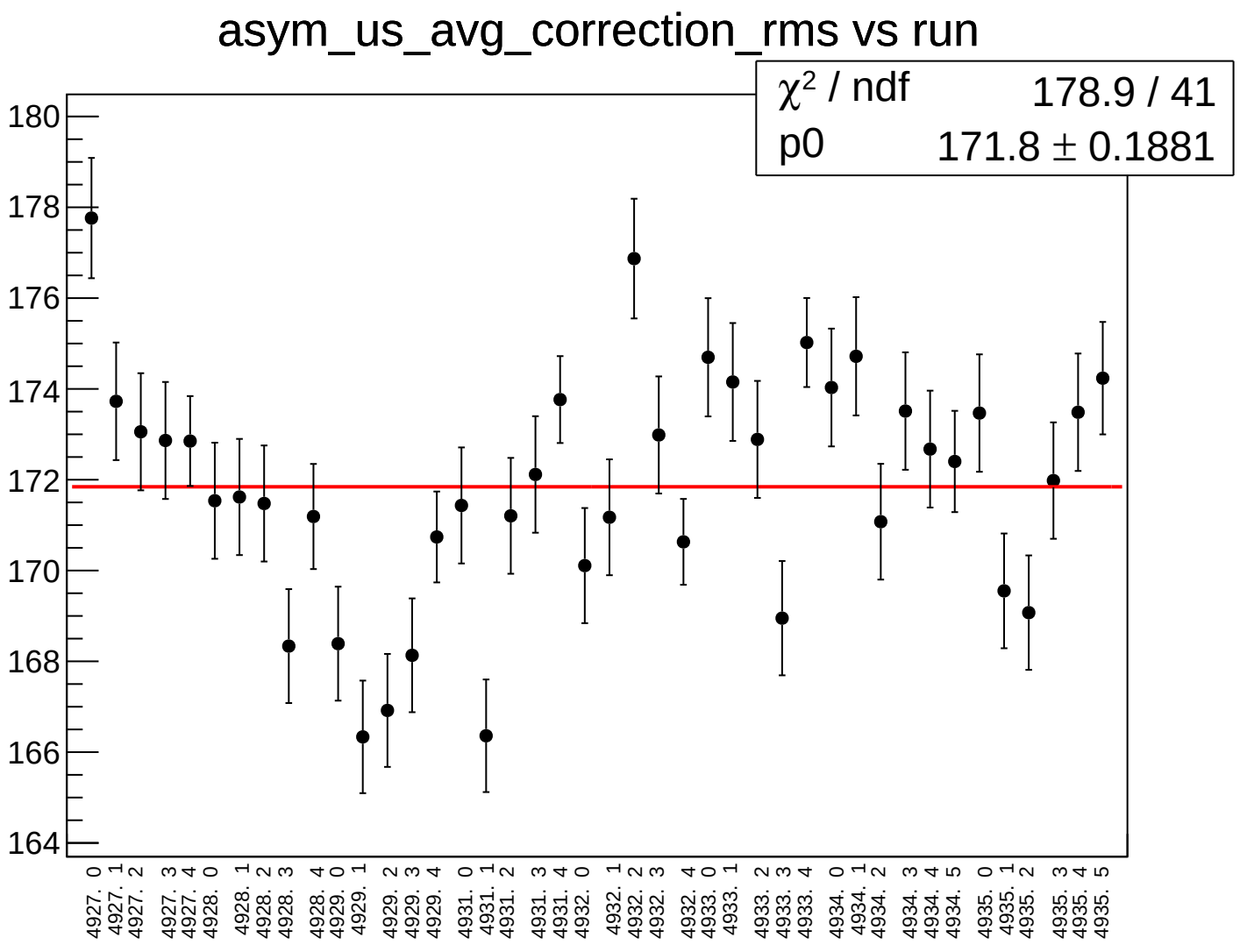

reg_asym_us_avg_mean vs run
χ² / ndf 35.87 / 41
p0 −81.75 ± 135.9
3000
2000
1000
0
−1000
−2000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 281.4
Std Dev 262.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

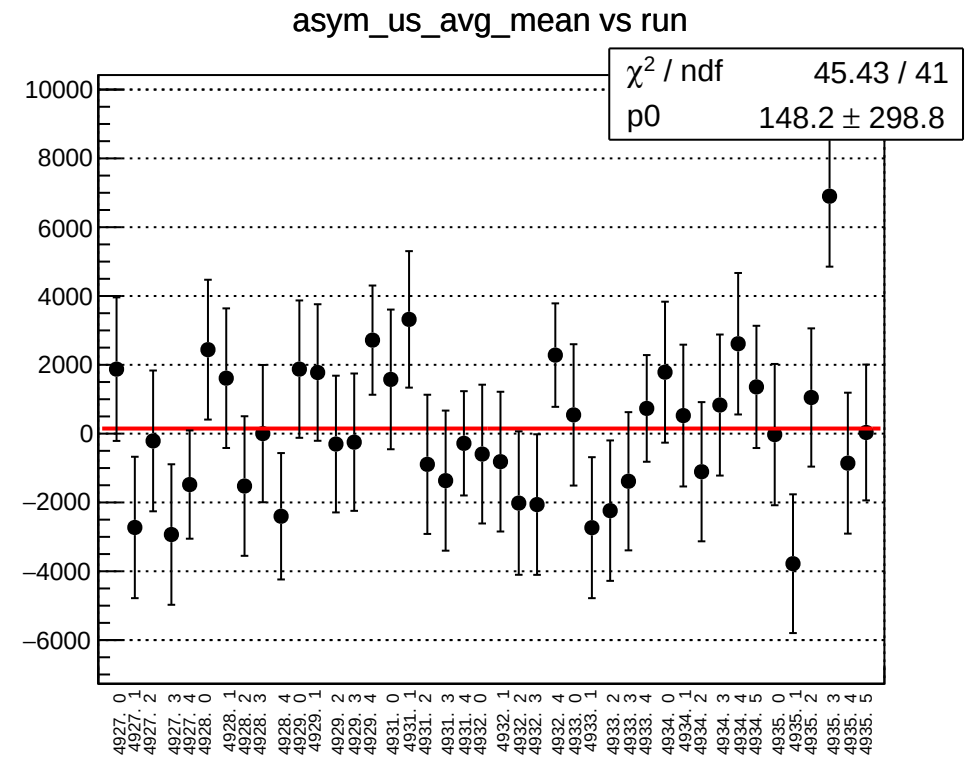

pull1D
Entries 42
Mean 0.007021
Std Dev 0.9241
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

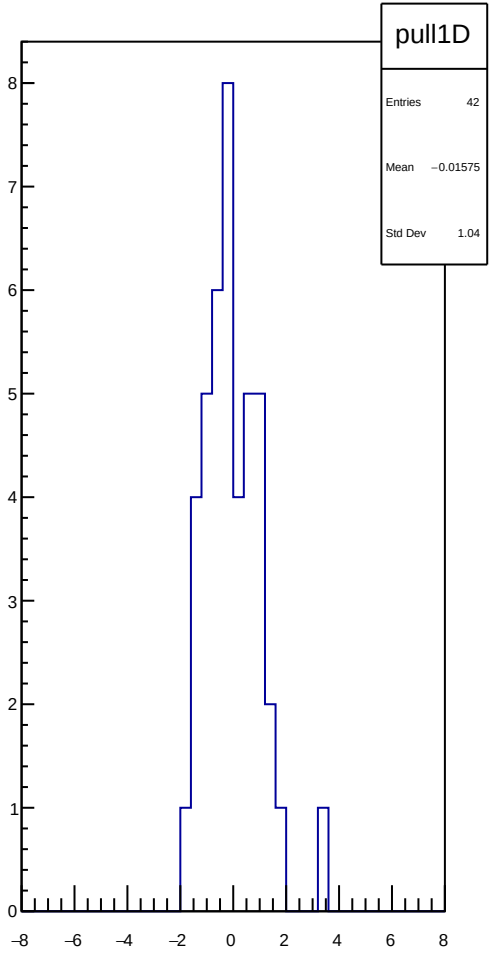

reg_asym_us_avg_rms vs run
χ^2 / ndf 104.2 / 41
p0 87.75 ± 0.09607
92
91
90
89
88
87
86
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

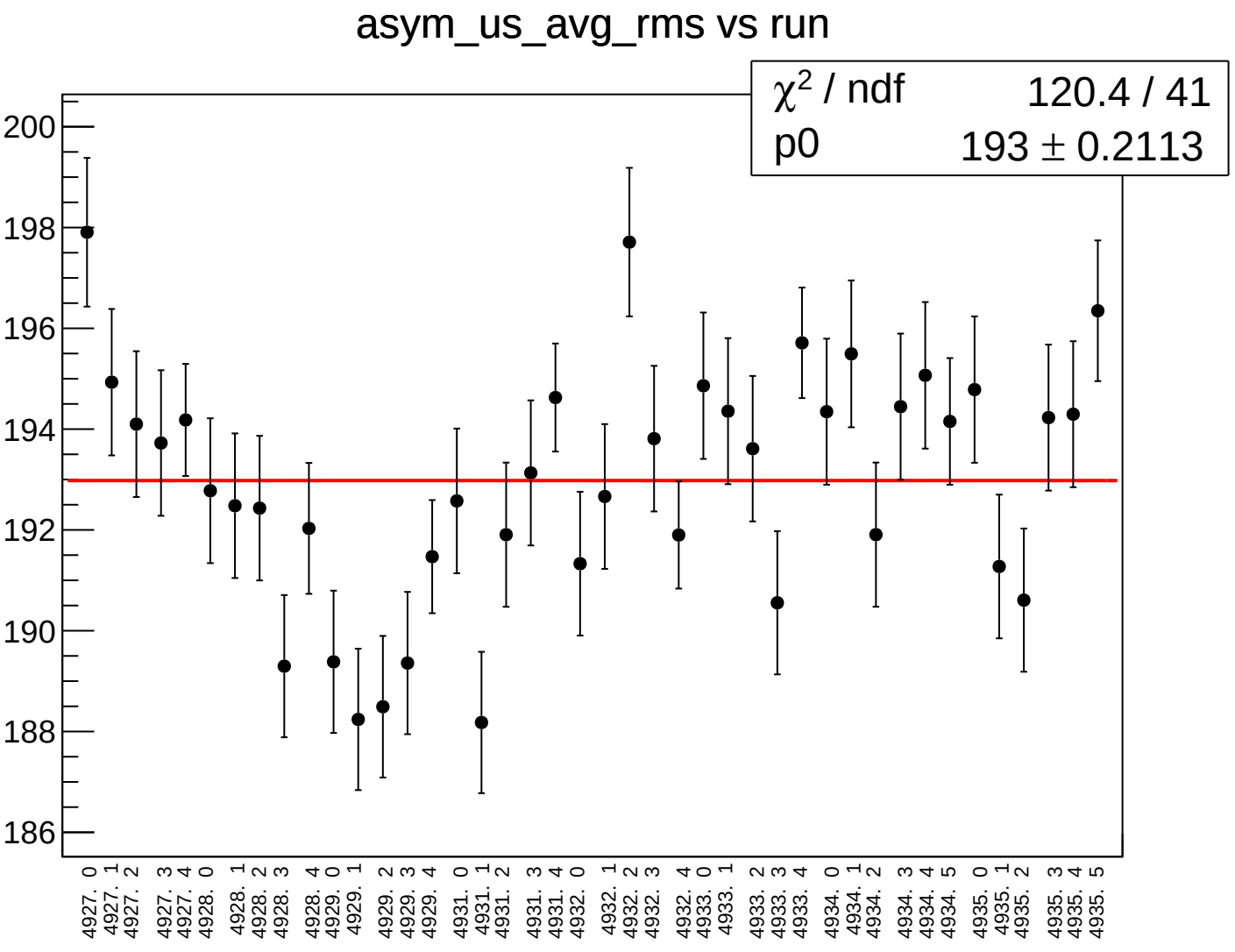

asym_us_avg_correction_mean vs run
χ² / ndf 49.7 / 41
p0 −231.3 ± 266.1
4000
2000
0
−2000
−4000
−6000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −19.12
Std Dev 44.37
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

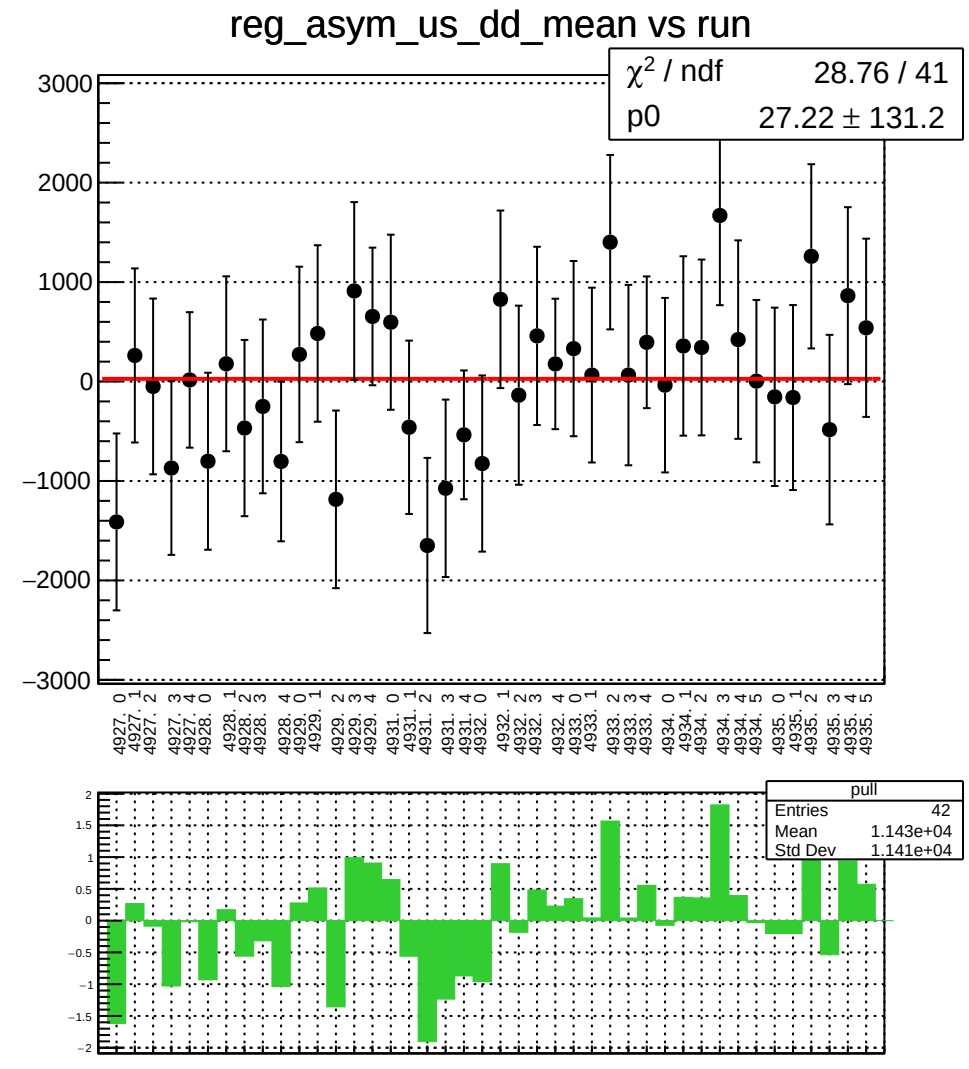

pull1D
Entries 42
Mean 0.02174
Std Dev 1.088
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

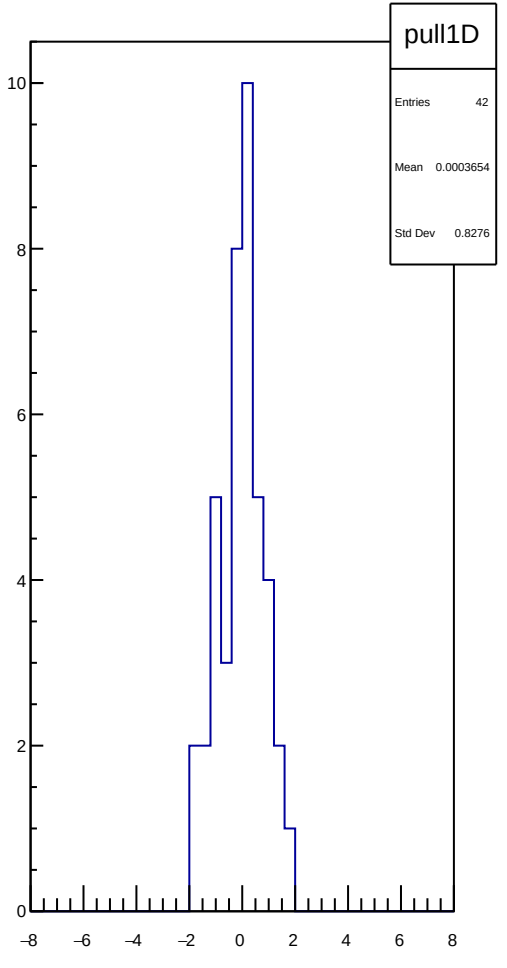

asym_us_avg_correction_rms vs run
χ² / ndf 178.9 / 41
p0 171.8 ± 0.1881
180
178
176
174
172
170
168
166
164
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

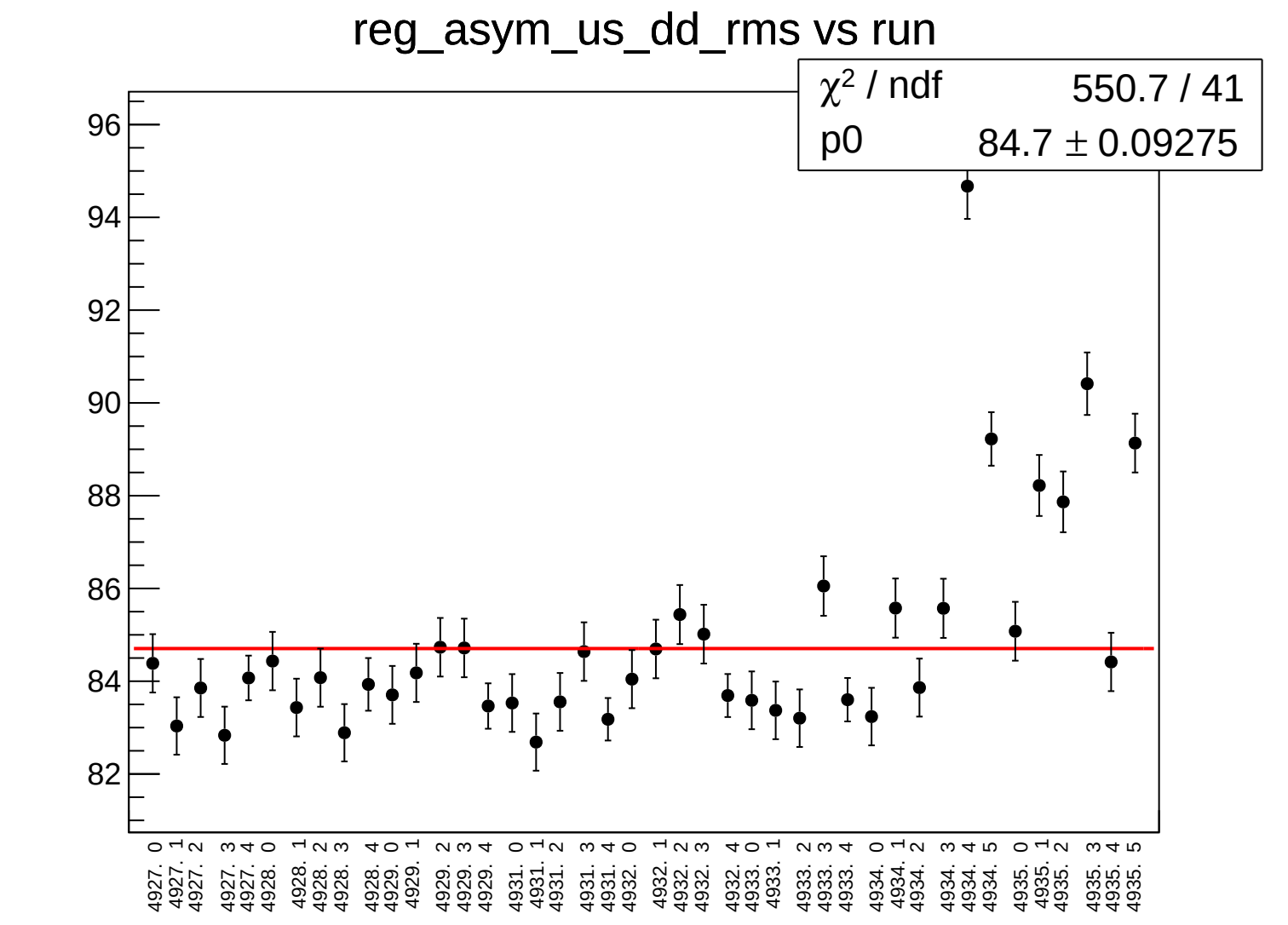

asym_us_avg_mean vs run
χ² / ndf 45.43 / 41
p0 148.2 ± 298.8
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −80.38
Std Dev 102.7
3
2
1
0
−1
−2

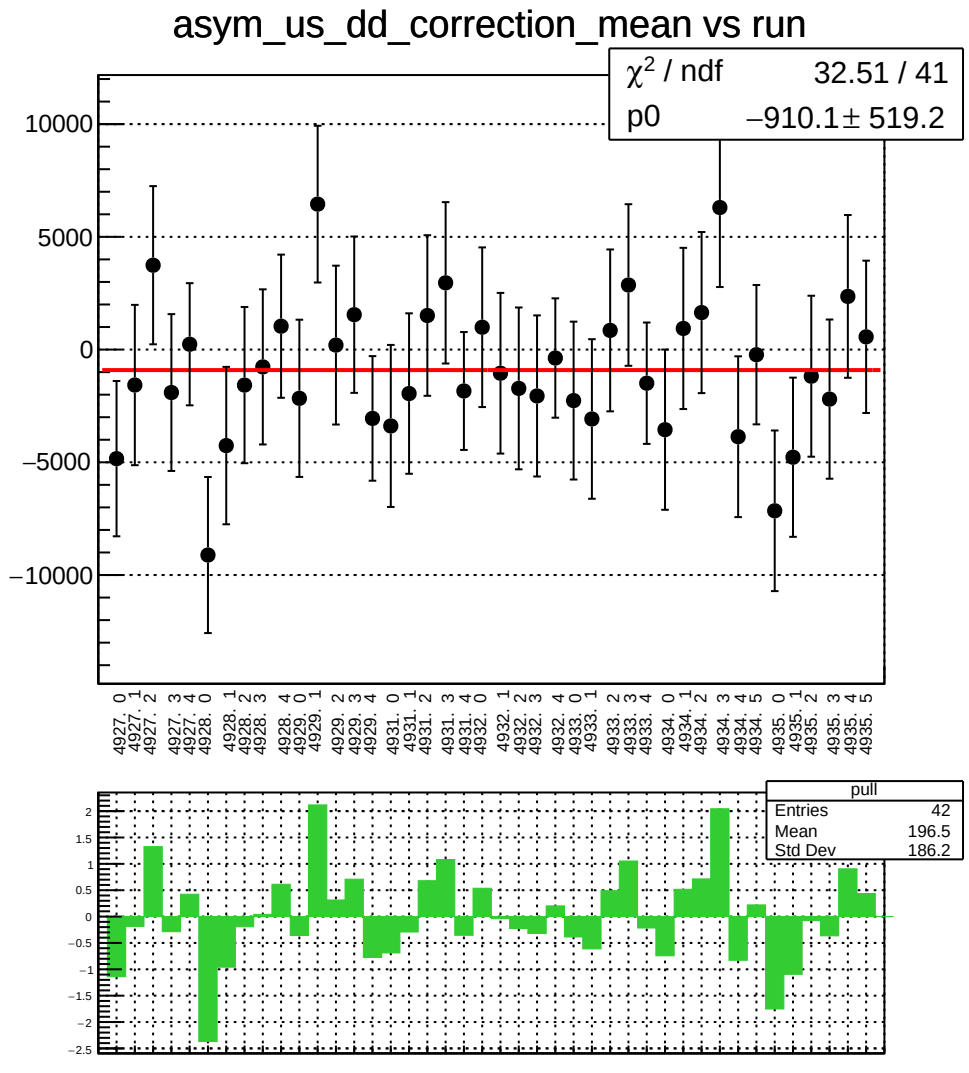

pull1D
Entries 42
Mean −0.01575
Std Dev 1.04
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

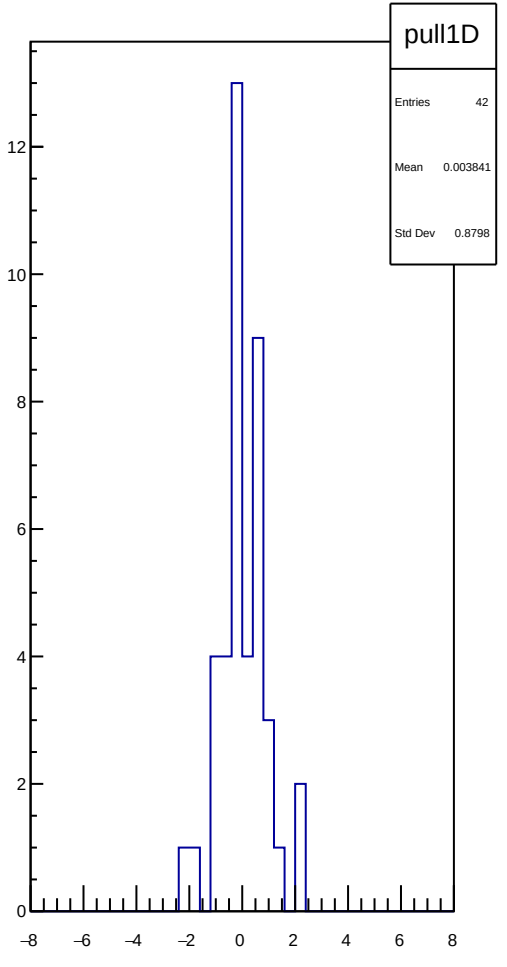

asym_us_avg_rms vs run
χ² / ndf 120.4 / 41
p0 193 ± 0.2113
200
198
196
194
192
190
188
186
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

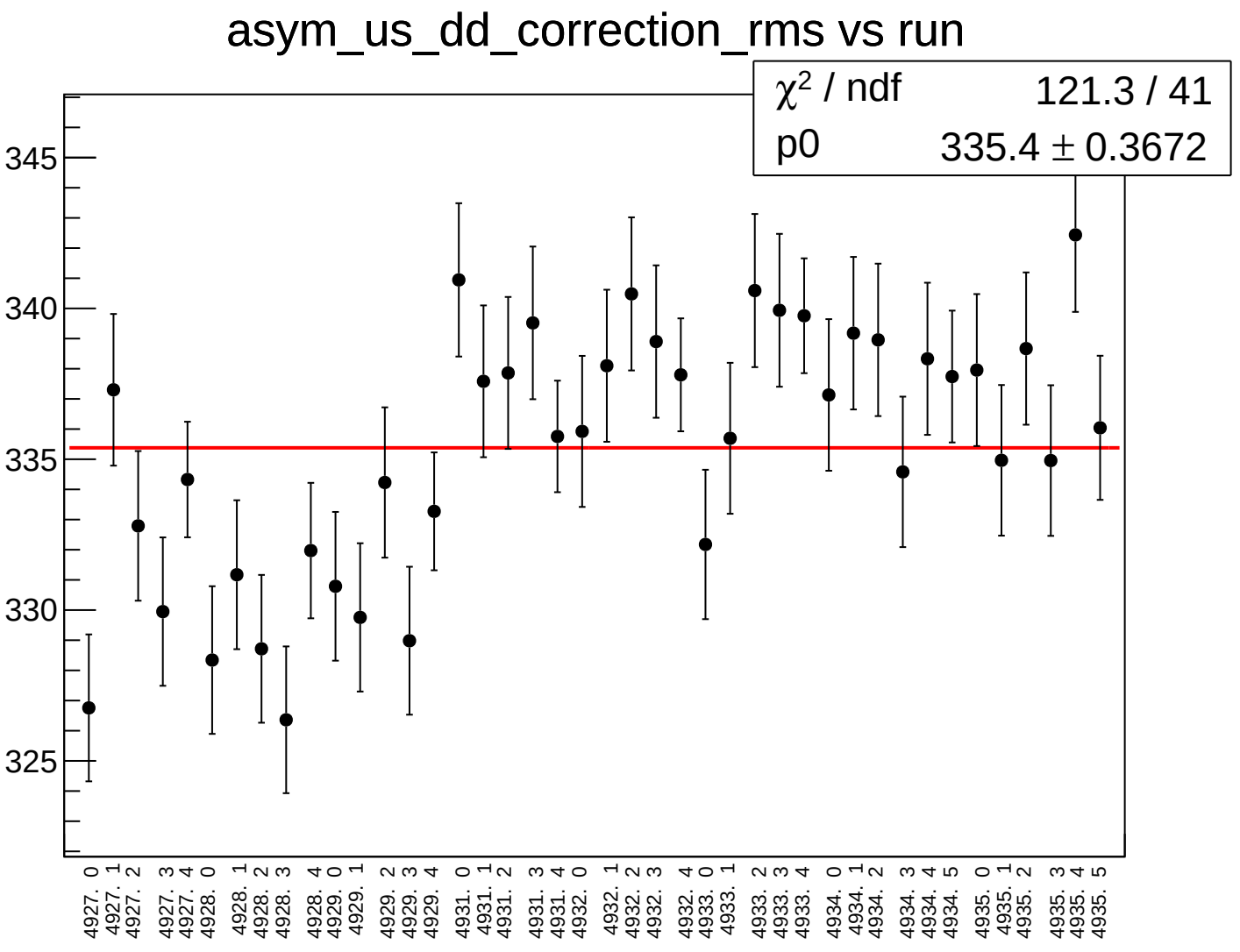

reg_asym_us_dd_mean vs run
χ² / ndf 28.76 / 41
p0 27.22 ± 131.2
3000
2000
1000
0
−1000
−2000
−3000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 1.143e+04
Std Dev 1.141e+04
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

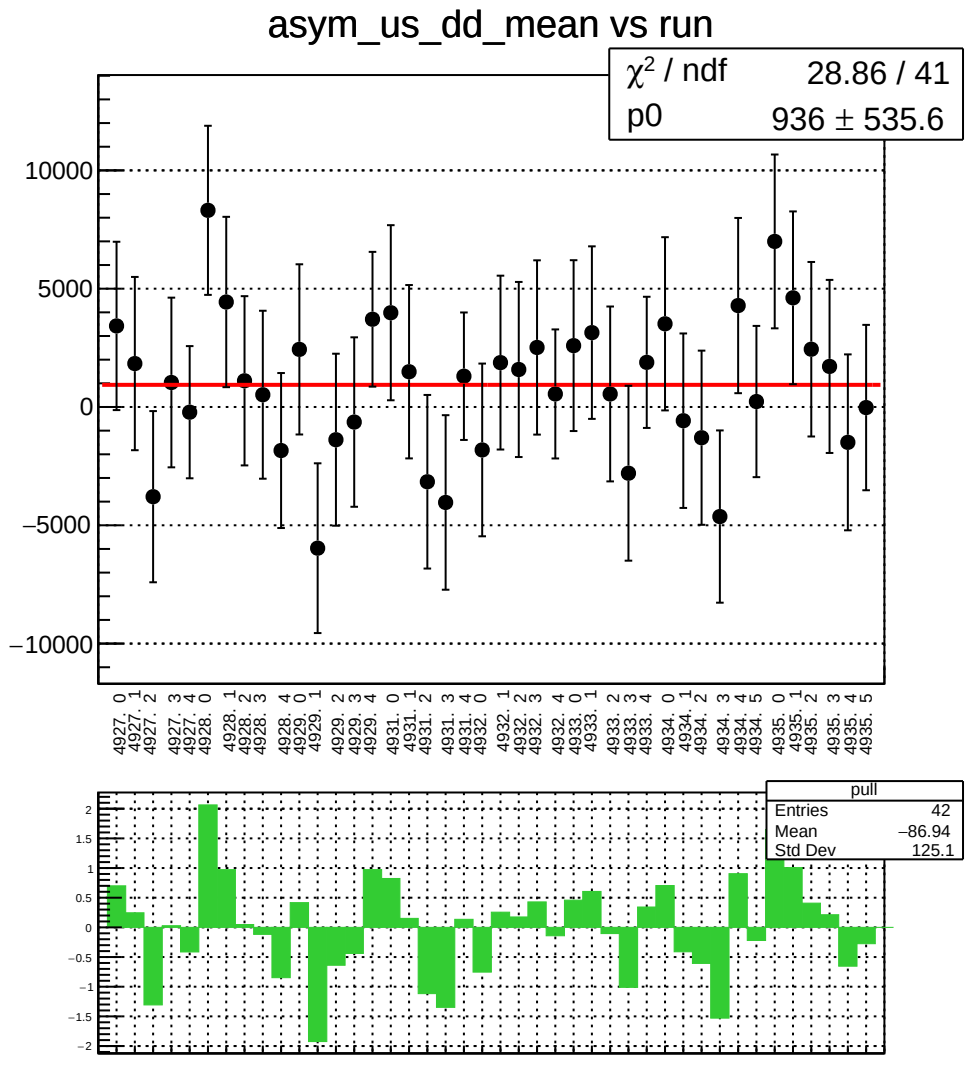

pull1D
Entries 42
Mean 0.0003654
Std Dev 0.8276
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

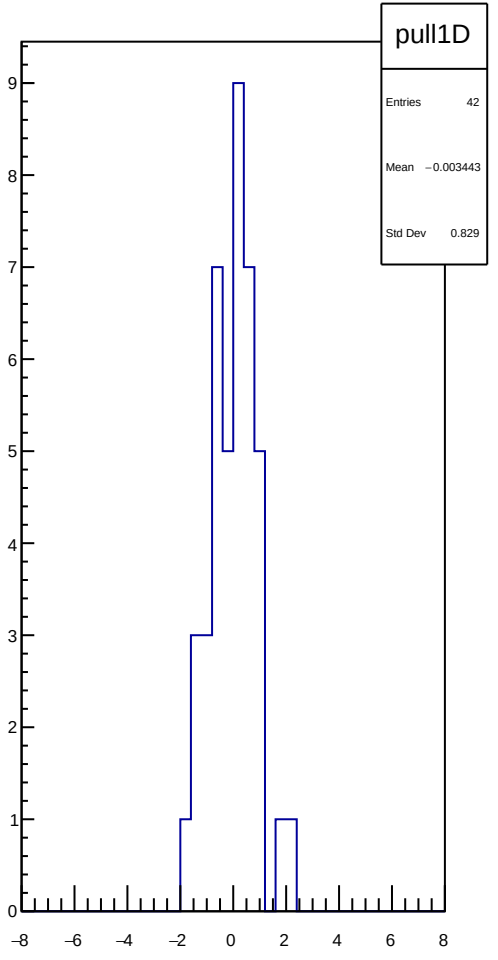

reg_asym_us_dd_rms vs run
χ² / ndf 550.7 / 41
p0 84.7 ± 0.09275
96
94
92
90
88
86
84
82
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

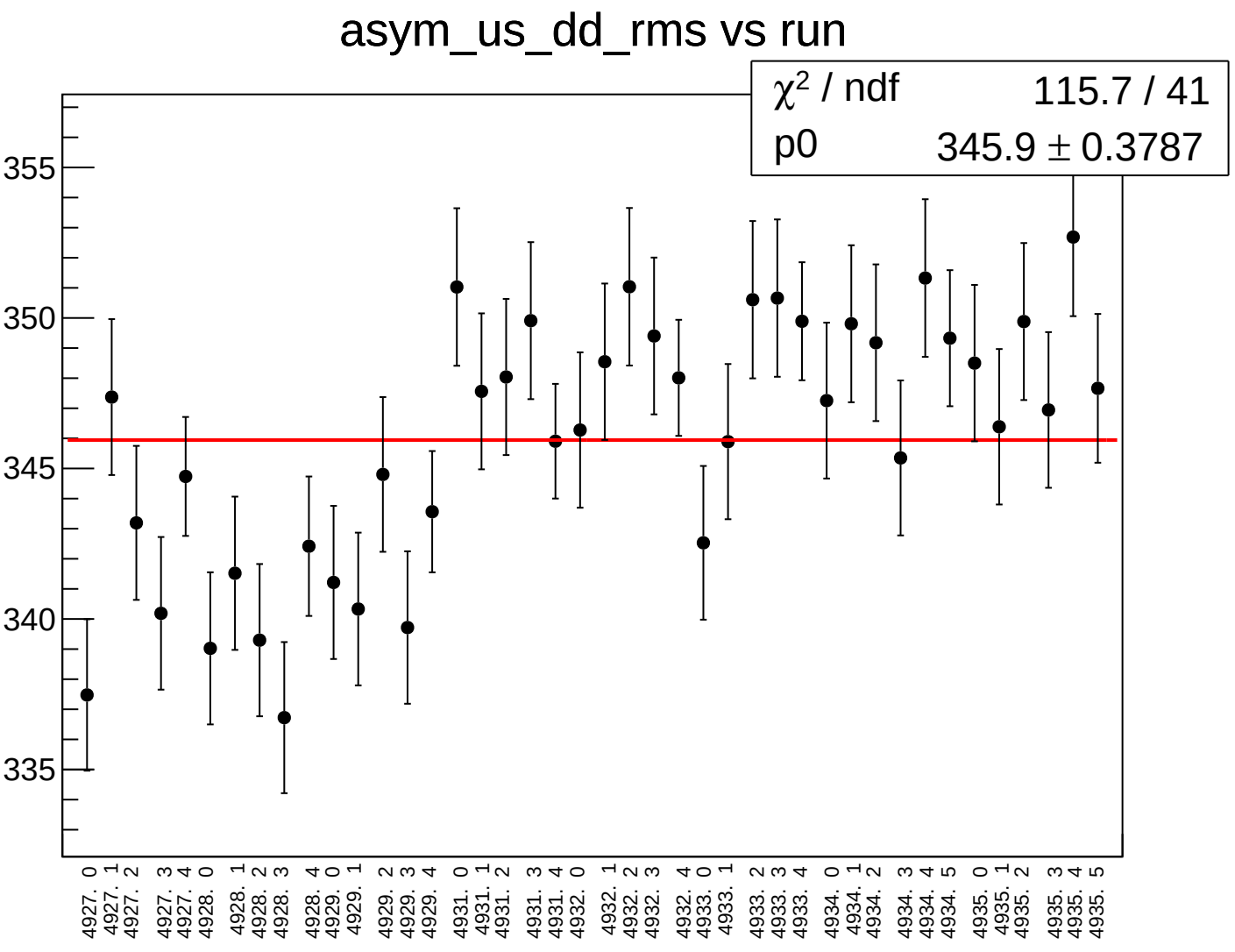

asym_us_dd_correction_mean vs run
χ² / ndf 32.51 / 41
p0 −910.1 ± 519.2
10000
5000
0
−5000
−10000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 196.5
Std Dev 186.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

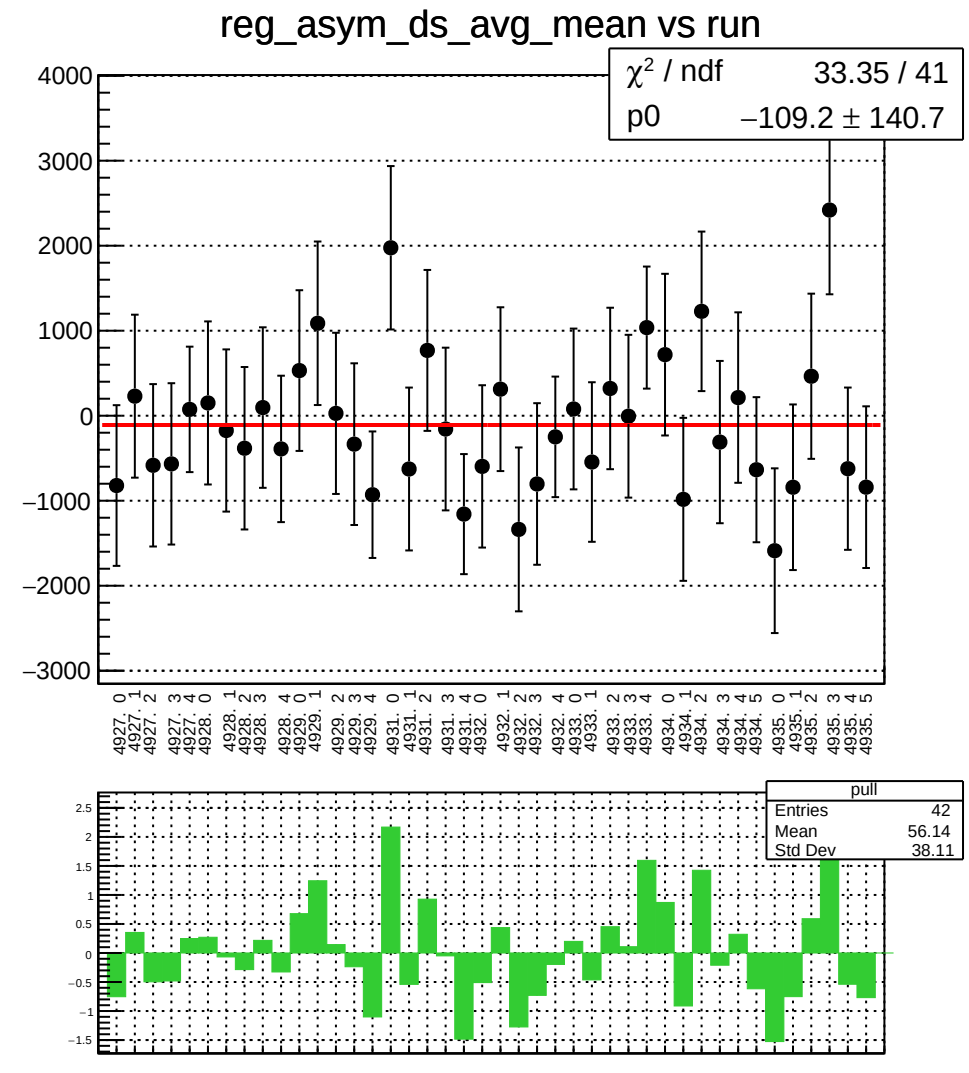

pull1D
Entries 42
Mean 0.003841
Std Dev 0.8798
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

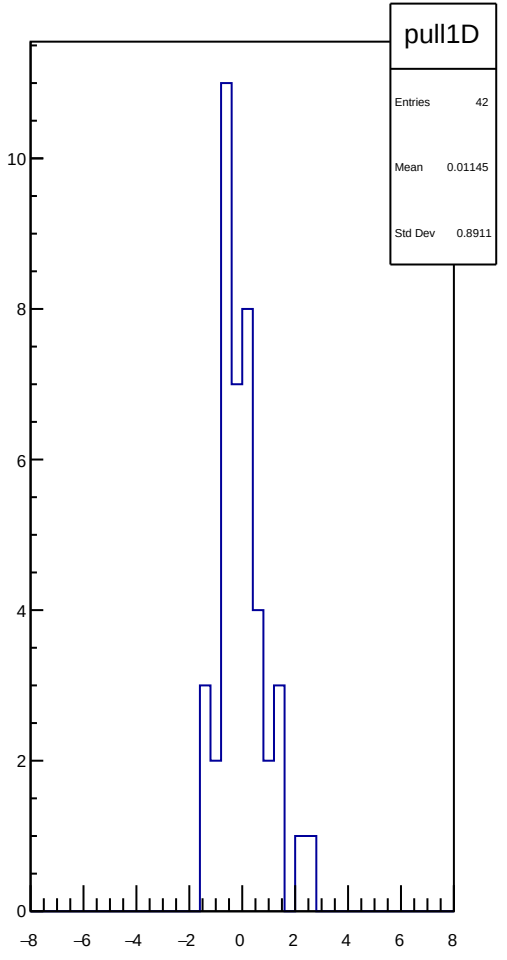

asym_us_dd_correction_rms vs run
χ² / ndf 121.3 / 41
p0 335.4 ± 0.3672
345
340
335
330
325
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

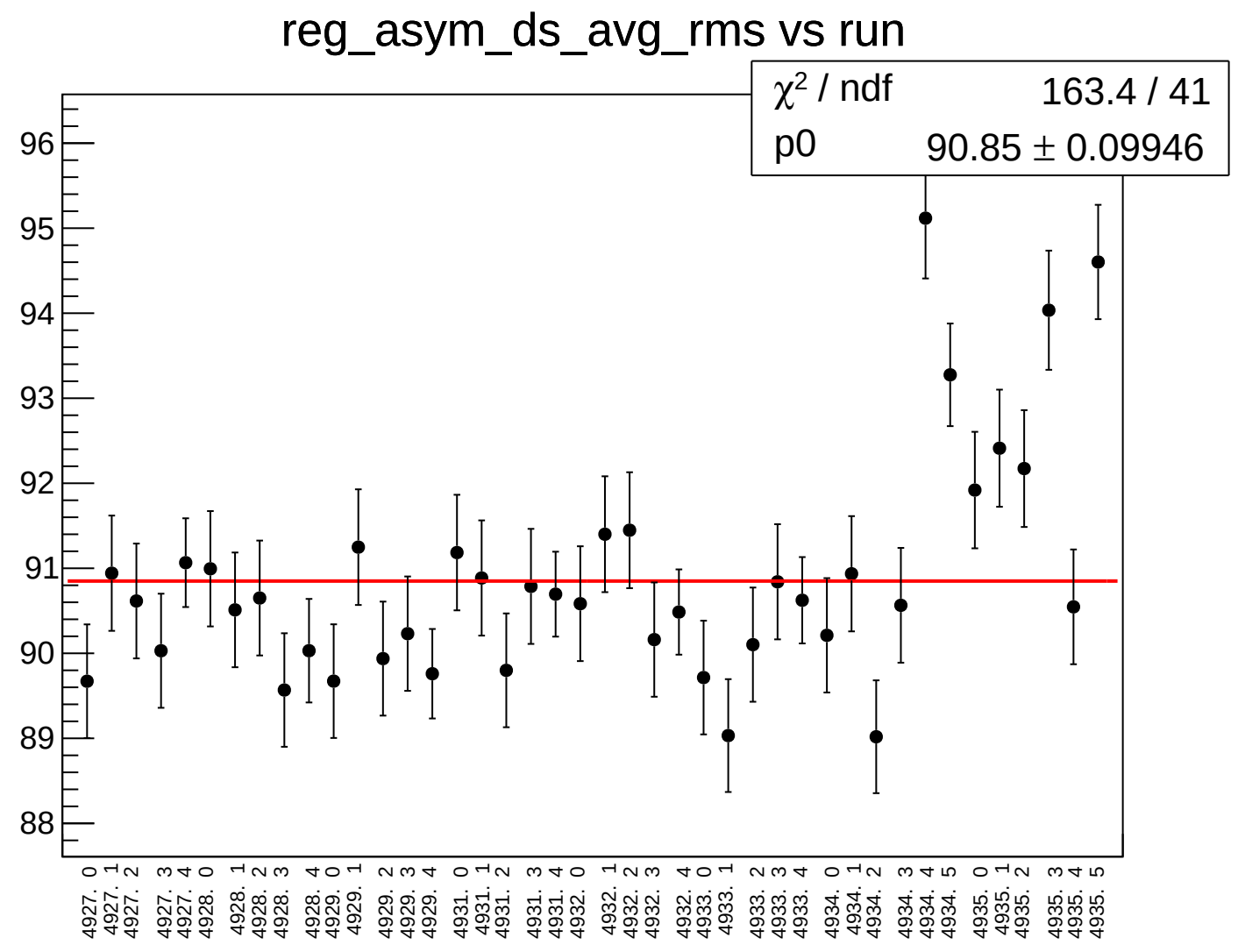

asym_us_dd_mean vs run
χ² / ndf 28.86 / 41
p0 936 ± 535.6
10000
5000
0
−5000
−10000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −86.94
Std Dev 125.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

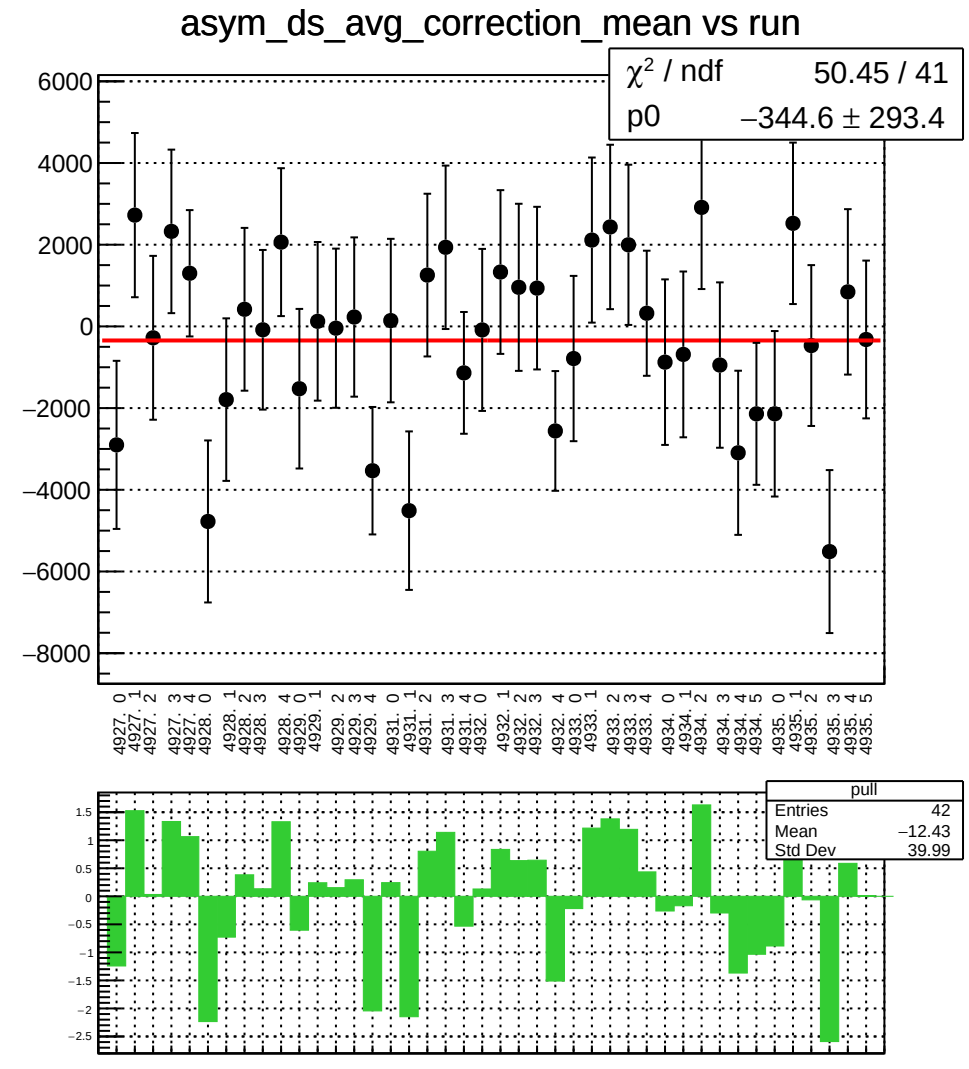

pull1D
Entries 42
Mean −0.003443
Std Dev 0.829
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

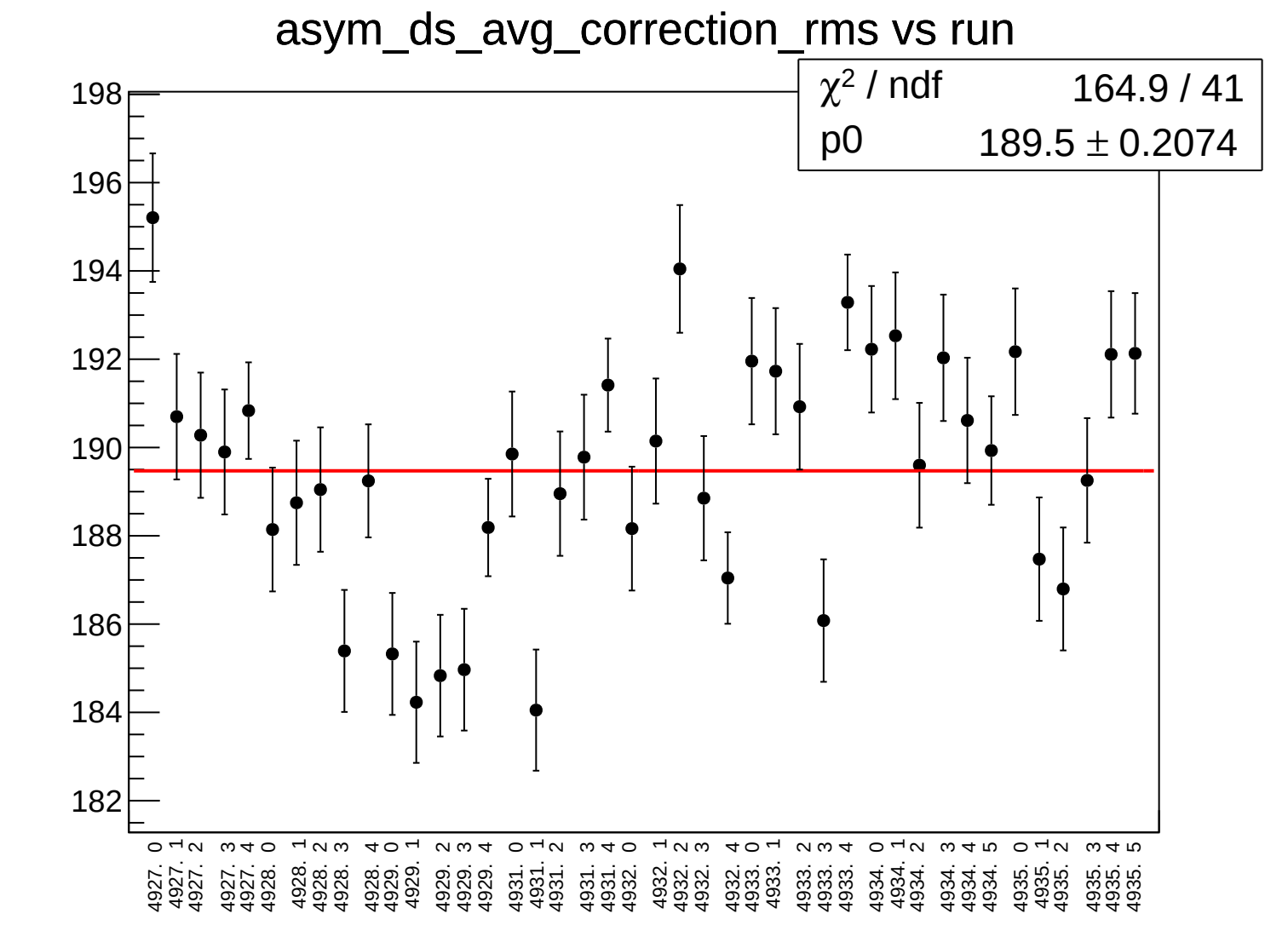

asym_us_dd_rms vs run
χ^2 / ndf 115.7 / 41
p0 345.9 ± 0.3787
355
350
345
340
335
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

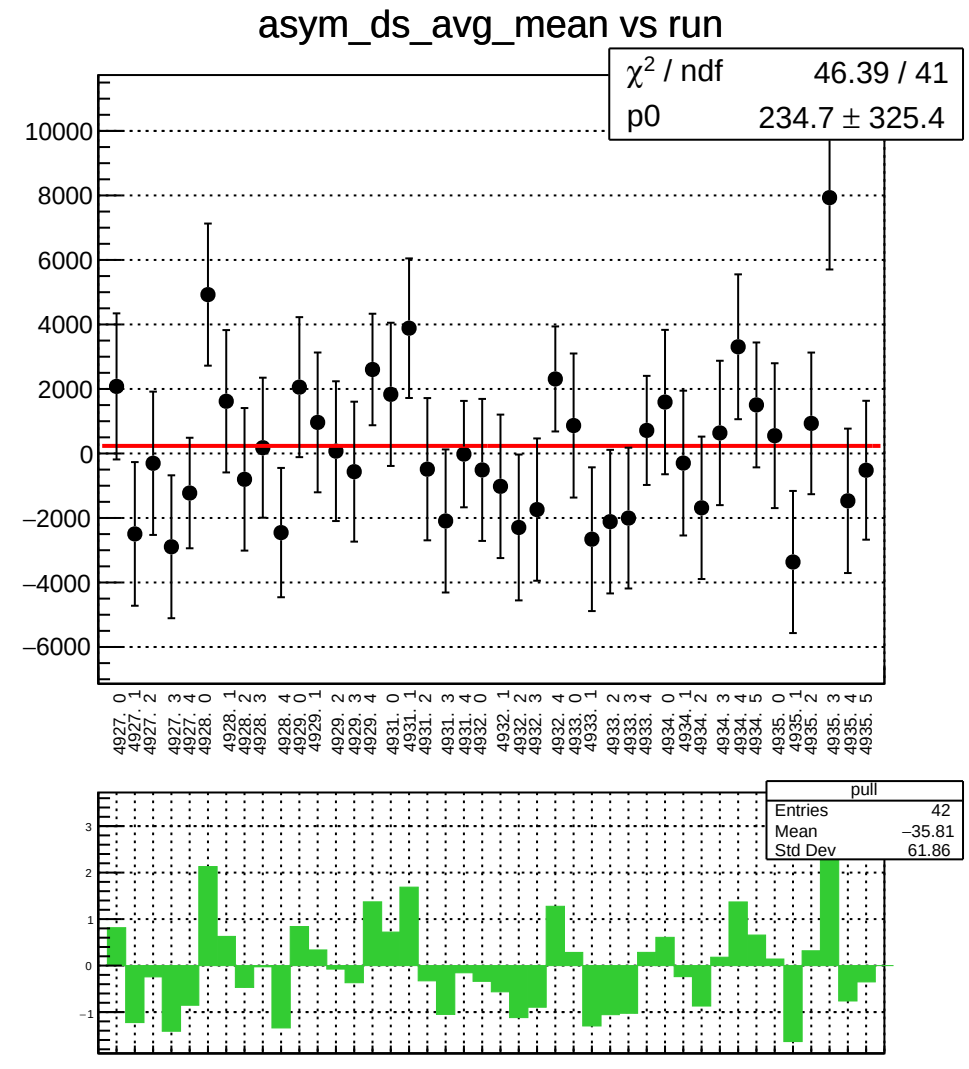

reg_asym_ds_avg_mean vs run
χ² / ndf 33.35 / 41
p0 −109.2 ± 140.7
4000
3000
2000
1000
0
−1000
−2000
−3000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 56.14
Std Dev 38.11
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

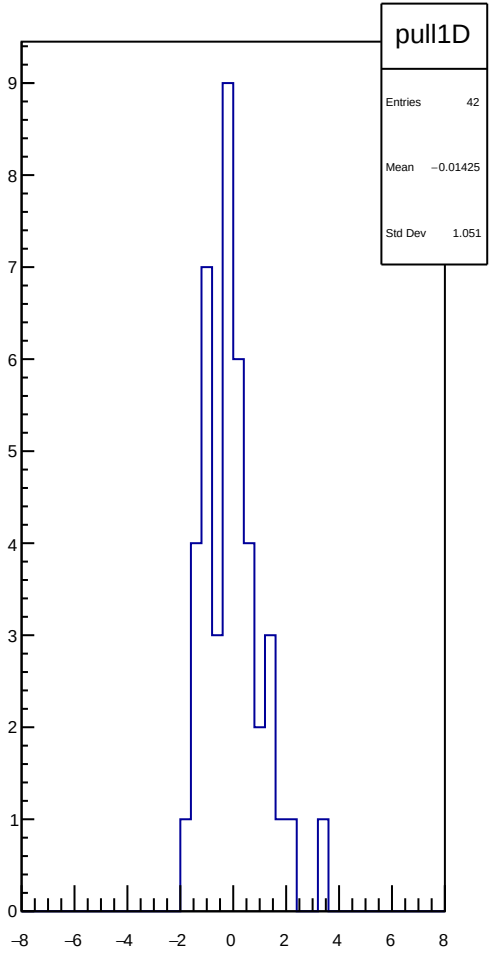

pull1D
Entries 42
Mean 0.01145
Std Dev 0.8911
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

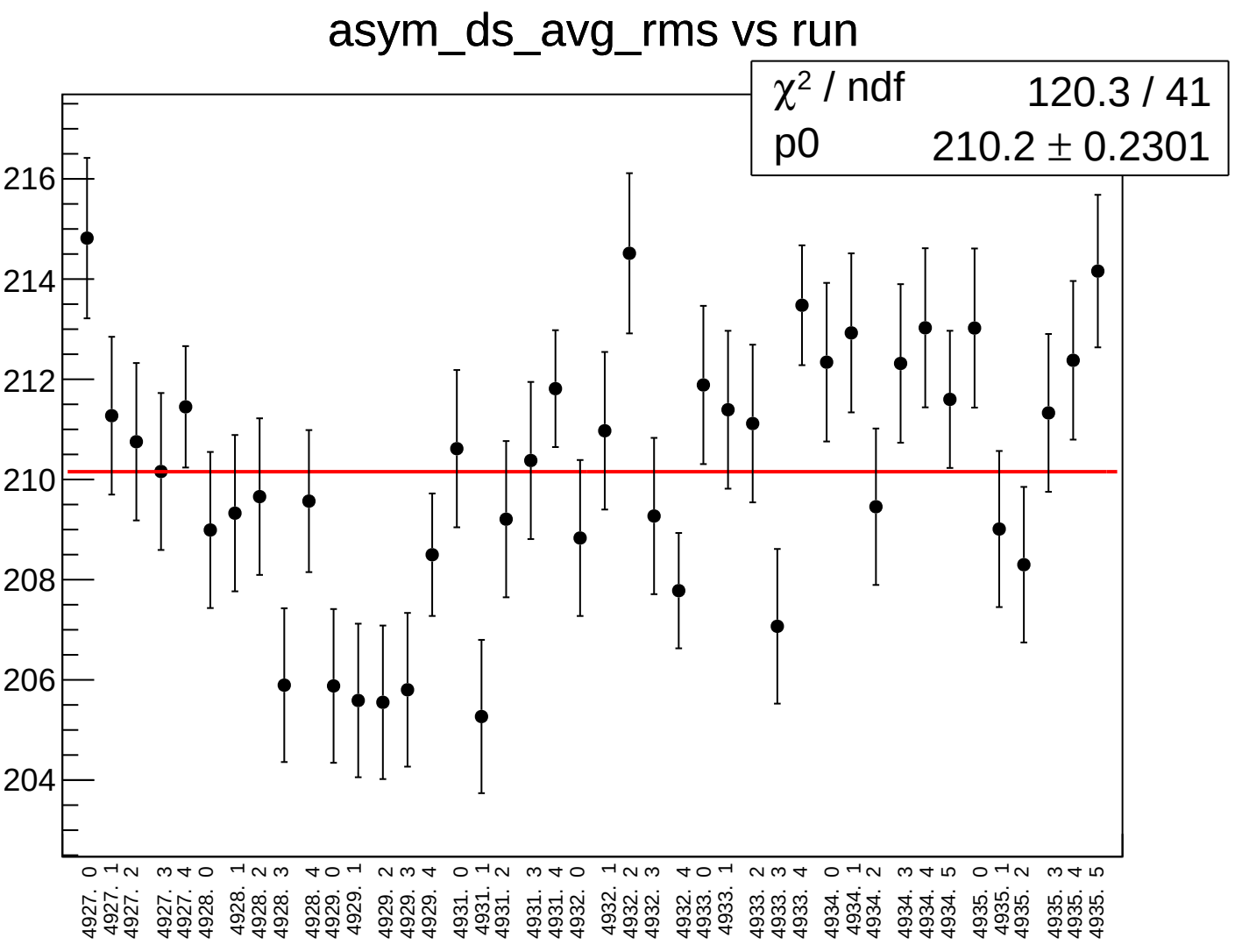

reg_asym_ds_avg_rms vs run
χ² / ndf 163.4 / 41
p0 90.85 ± 0.09946
96
95
94
93
92
91
90
89
88
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

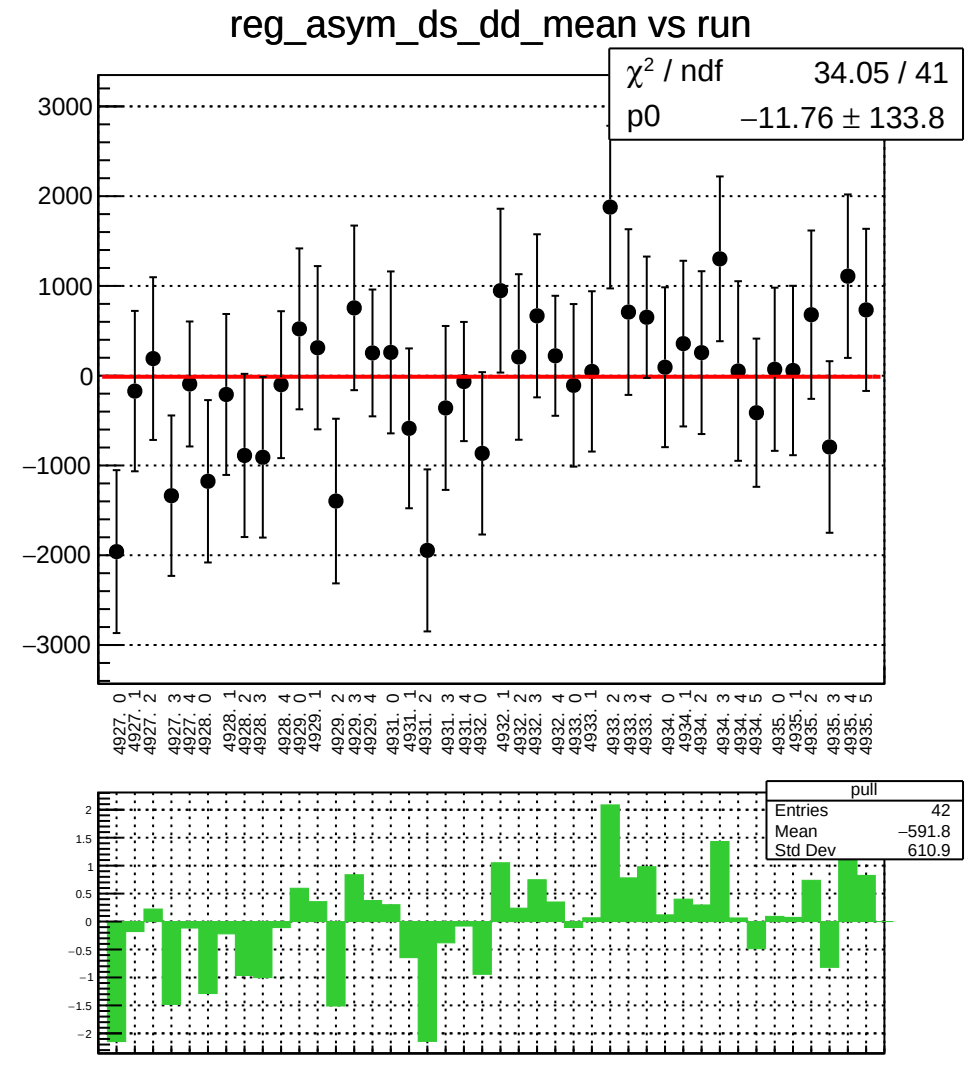

asym_ds_avg_correction_mean vs run
χ² / ndf 50.45 / 41
p0 −344.6 ± 293.4
6000
4000
2000
0
−2000
−4000
−6000
−8000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −12.43
Std Dev 39.99
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 42
Mean 0.02159
Std Dev 1.096
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

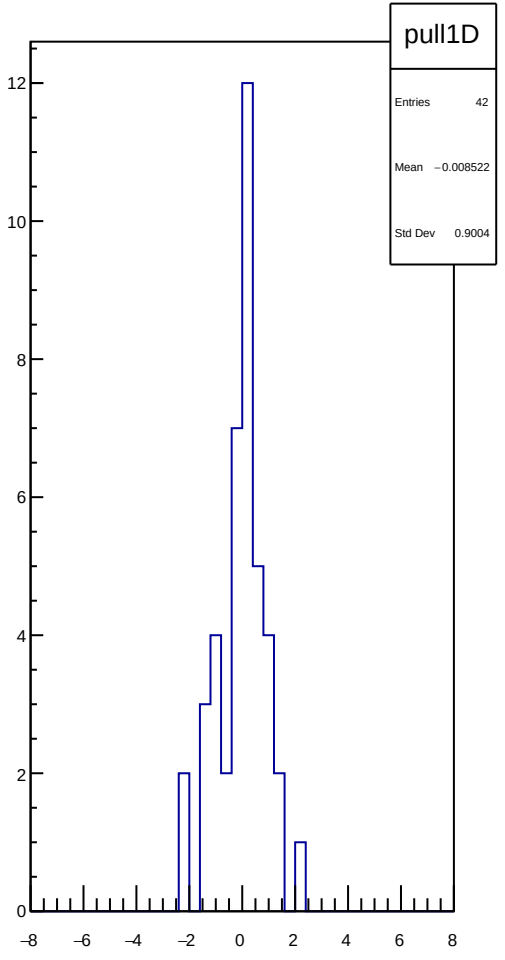

asym_ds_avg_correction_rms vs run
χ² / ndf 164.9 / 41
p0 189.5 ± 0.2074
198
196
194
192
190
188
186
184
182
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

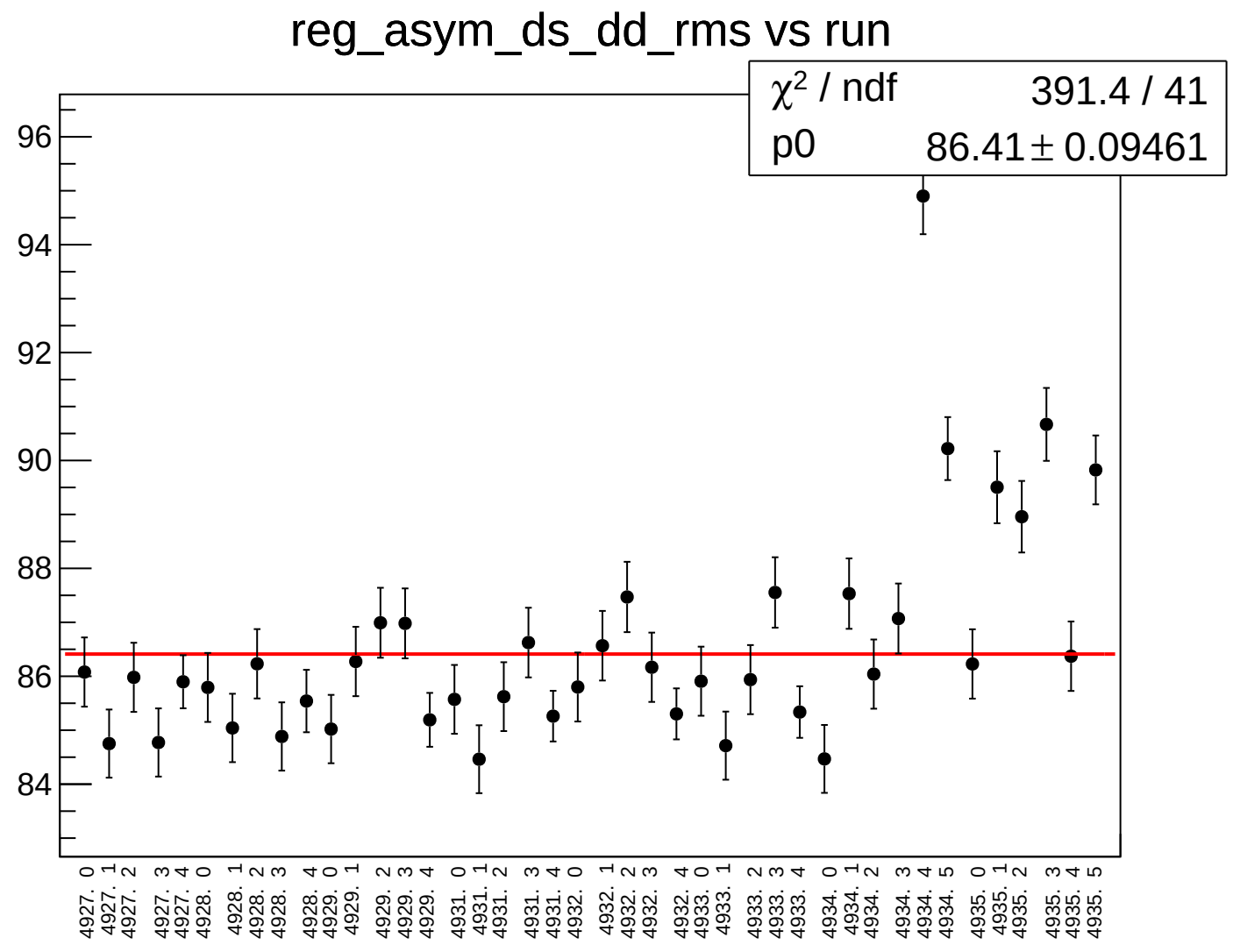

asym_ds_avg_mean vs run
χ² / ndf 46.39 / 41
p0 234.7 ± 325.4
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −35.81
Std Dev 61.86
3
2
1
0
−1

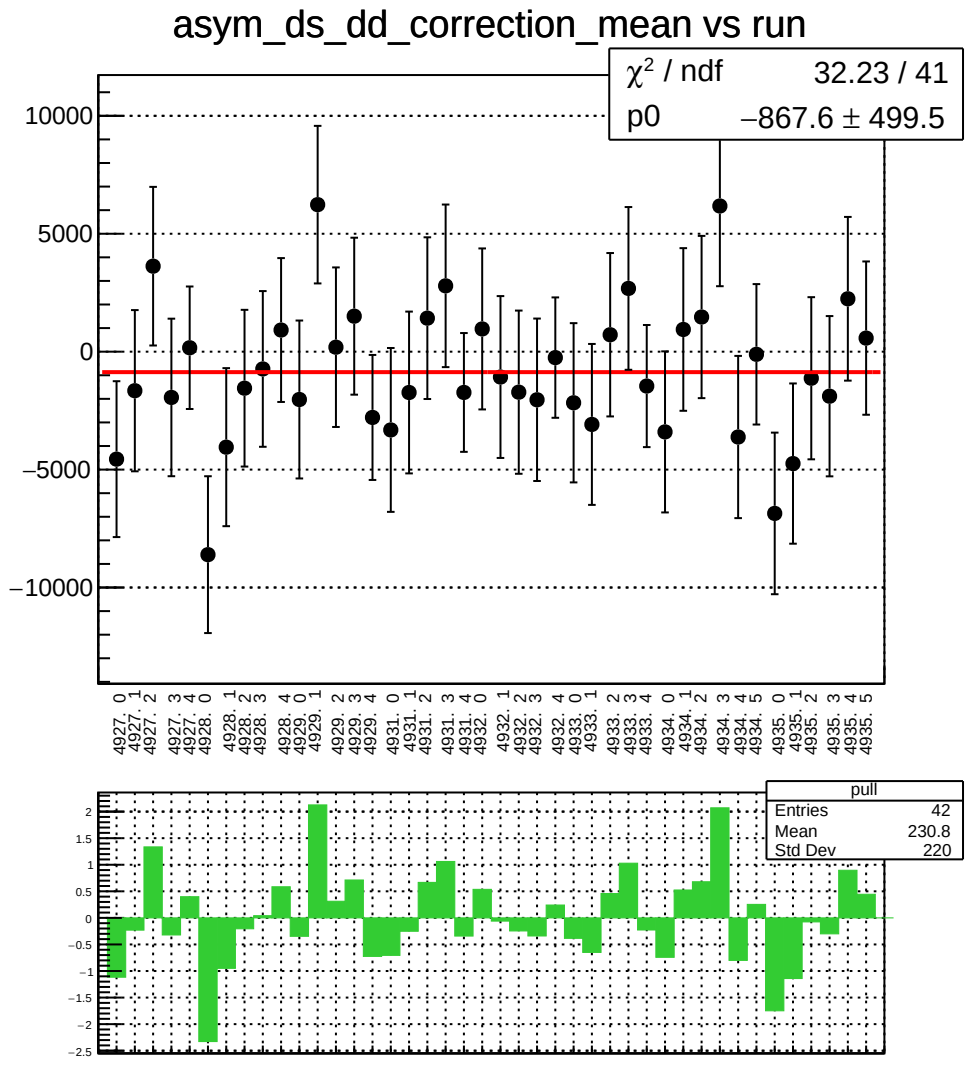

pull1D
Entries 42
Mean −0.01425
Std Dev 1.051
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

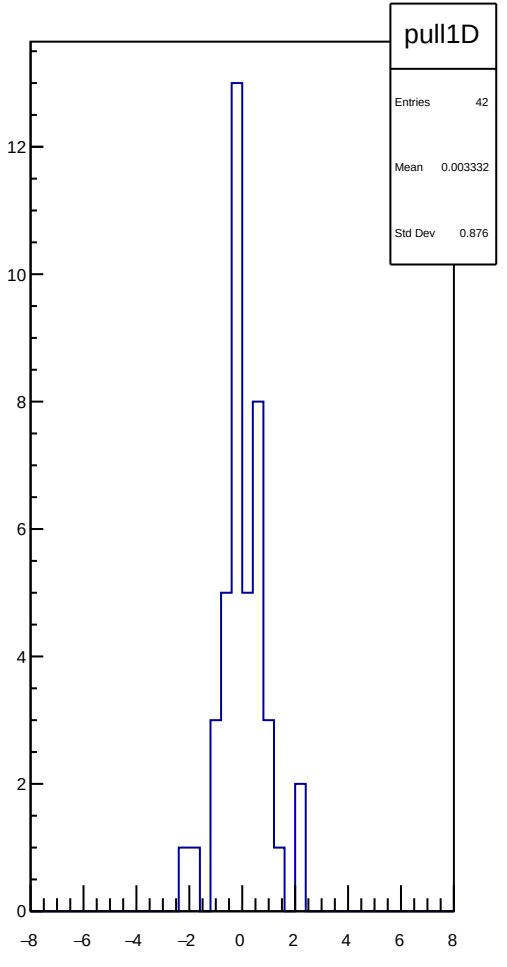

asym_ds_avg_rms vs run
χ² / ndf 120.3 / 41
p0 210.2 ± 0.2301
216
214
212
210
208
206
204
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

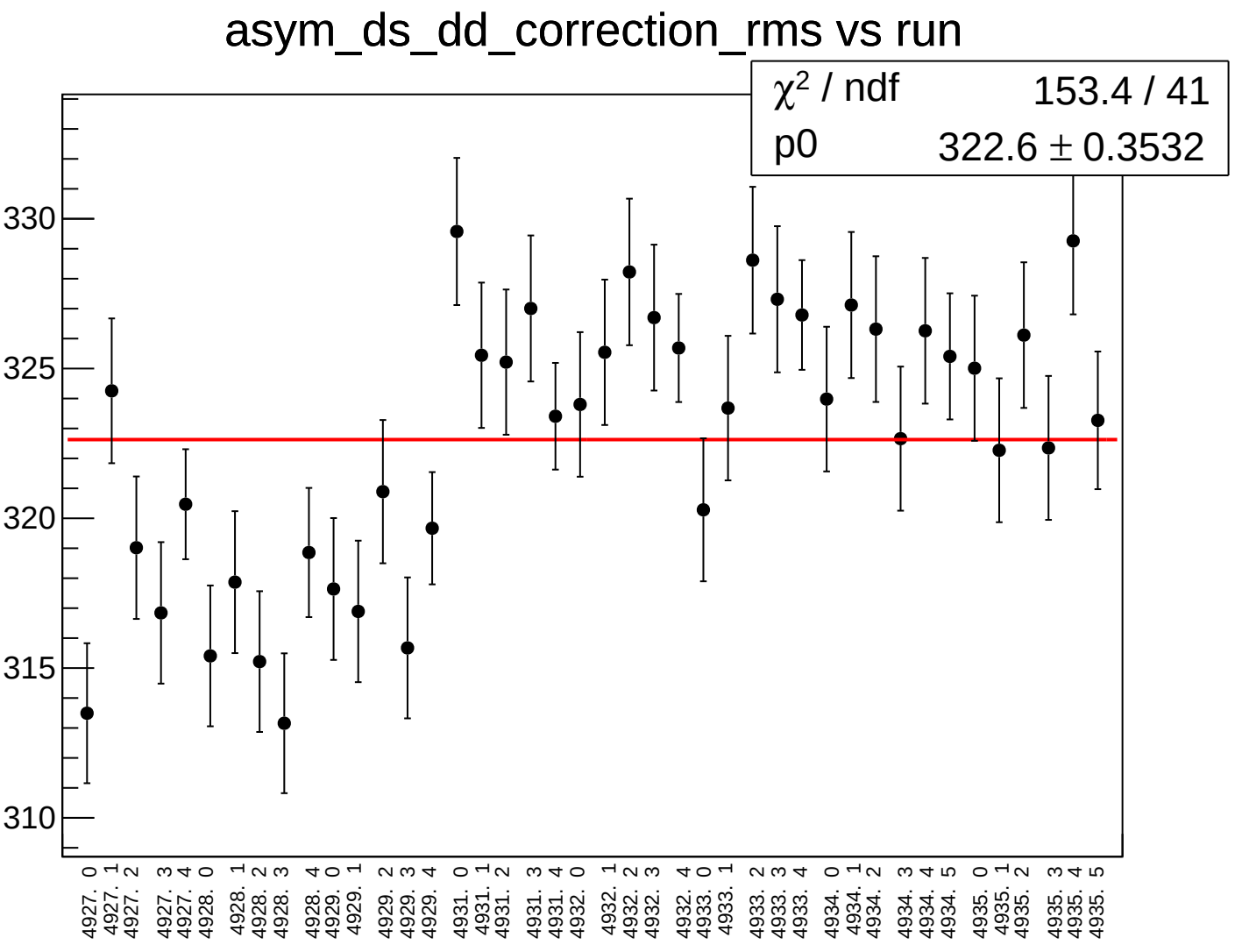

reg_asym_ds_dd_mean vs run
χ² / ndf 34.05 / 41
p0 −11.76 ± 133.8
pull
Entries 42
Mean −591.8
Std Dev 610.9

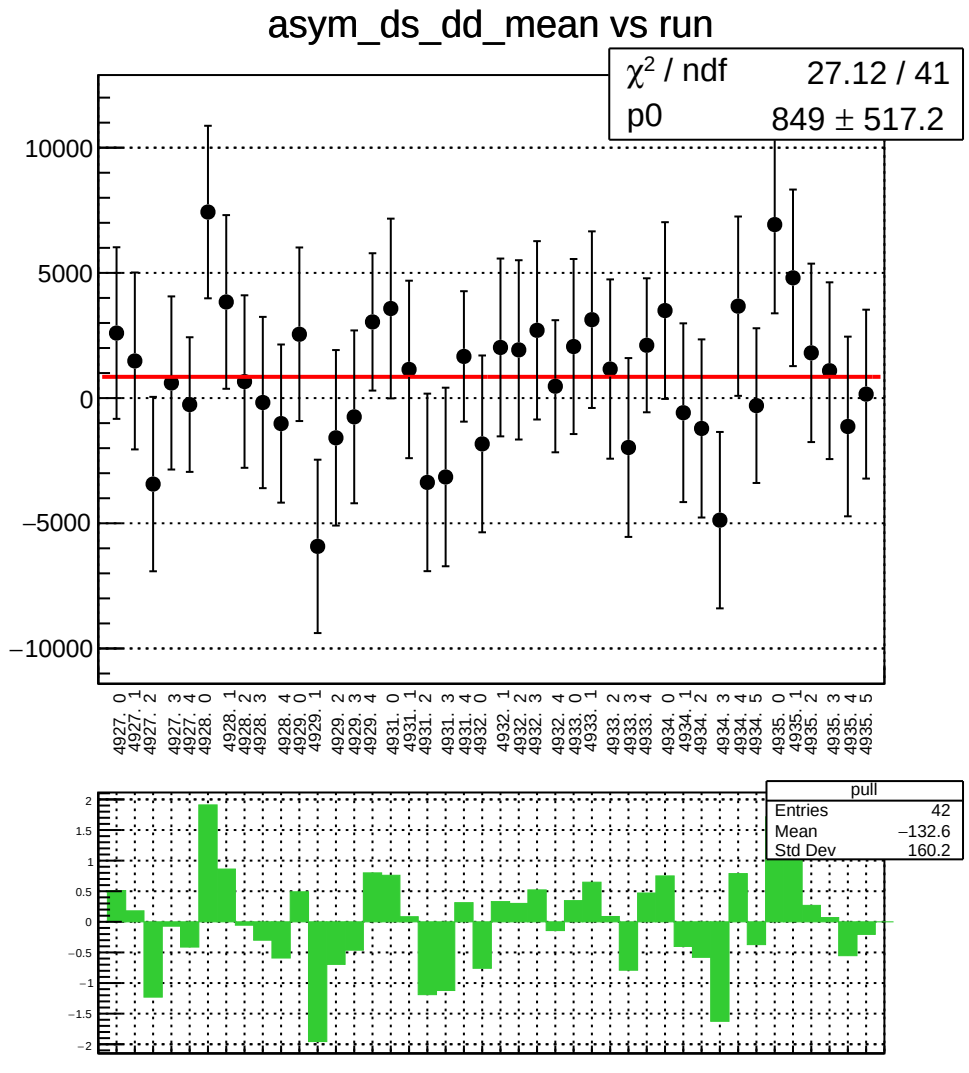

pull1D
Entries 42
Mean −0.008522
Std Dev 0.9004

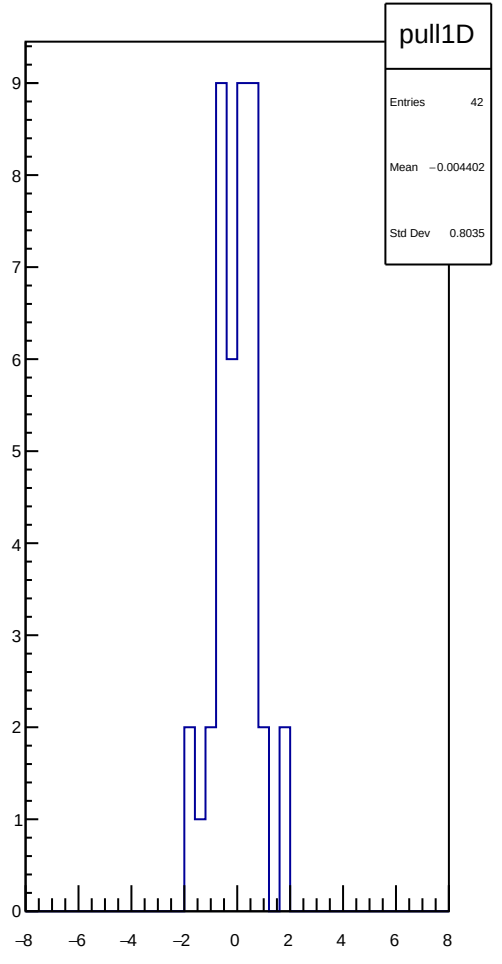

reg_asym_ds_dd_rms vs run
χ² / ndf 391.4 / 41
p0 86.41 ± 0.09461
96
94
92
90
88
86
84
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

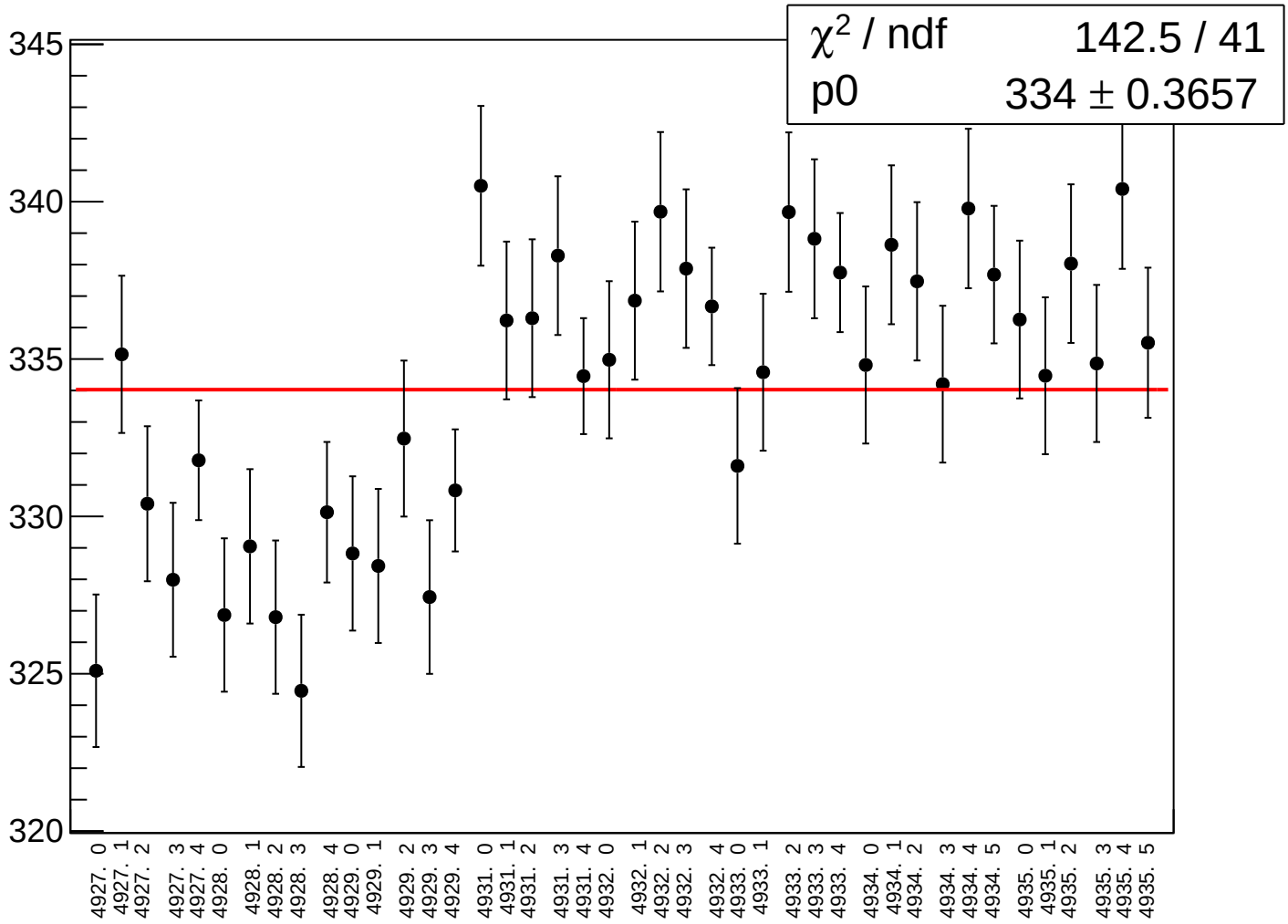

asym_ds_dd_correction_mean vs run
χ² / ndf 32.23 / 41
p0 −867.6 ± 499.5
10000
5000
0
−5000
−10000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 230.8
Std Dev 220
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

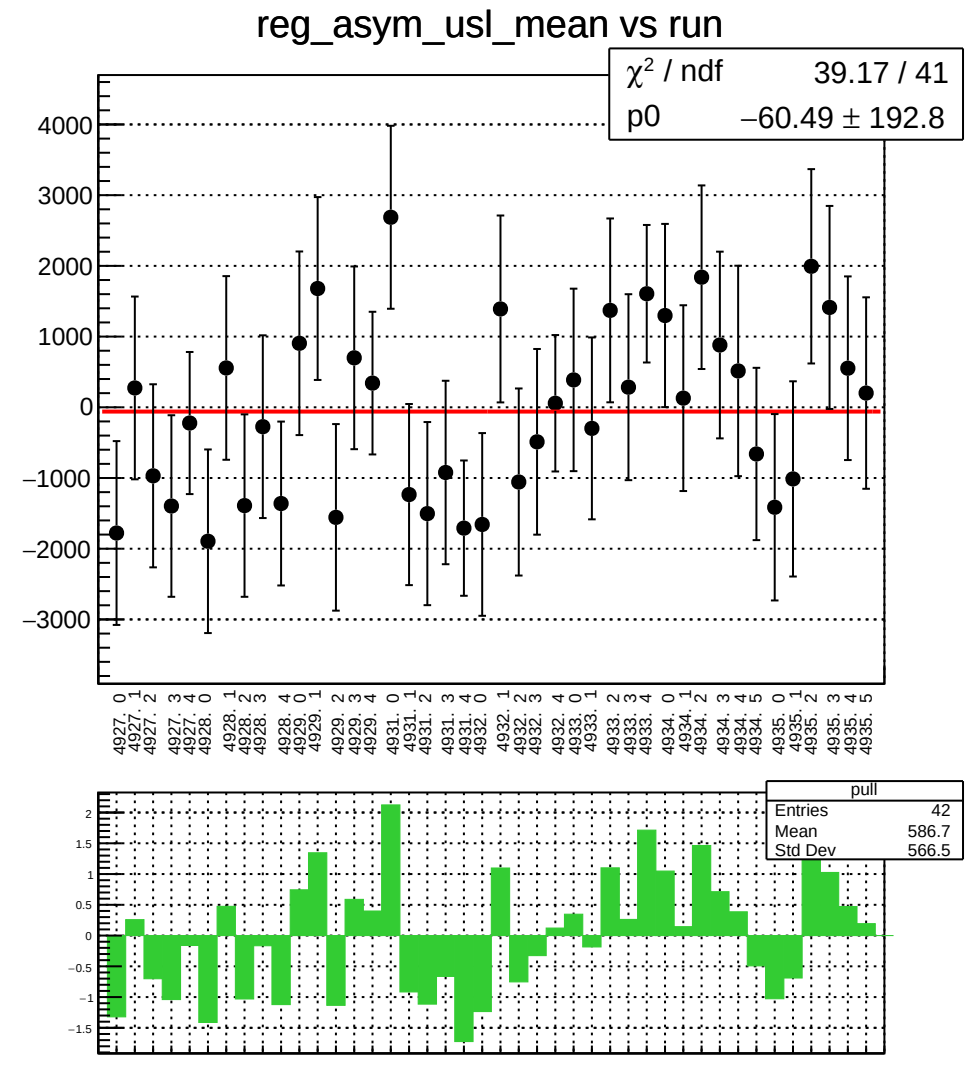

pull1D
Entries 42
Mean 0.003332
Std Dev 0.876
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

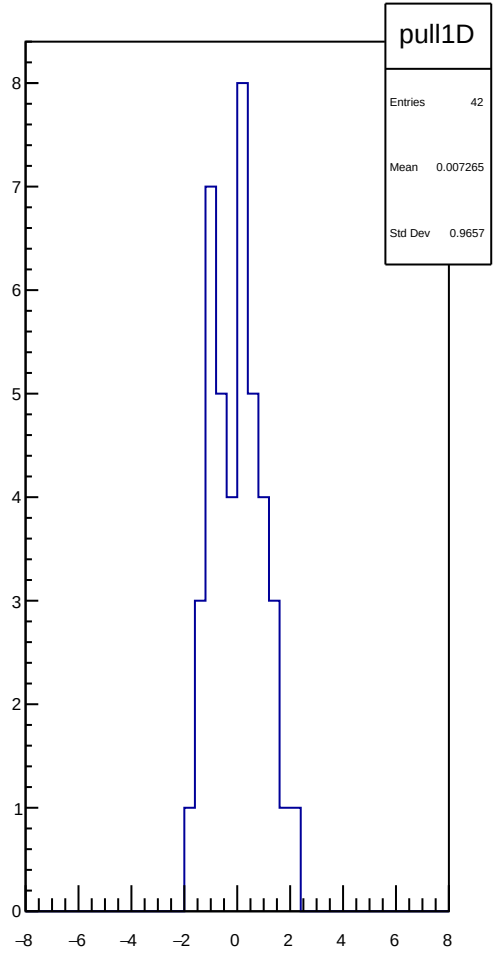

asym_ds_dd_correction_rms vs run
χ² / ndf 153.4 / 41
p0 322.6 ± 0.3532
330
325
320
315
310
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

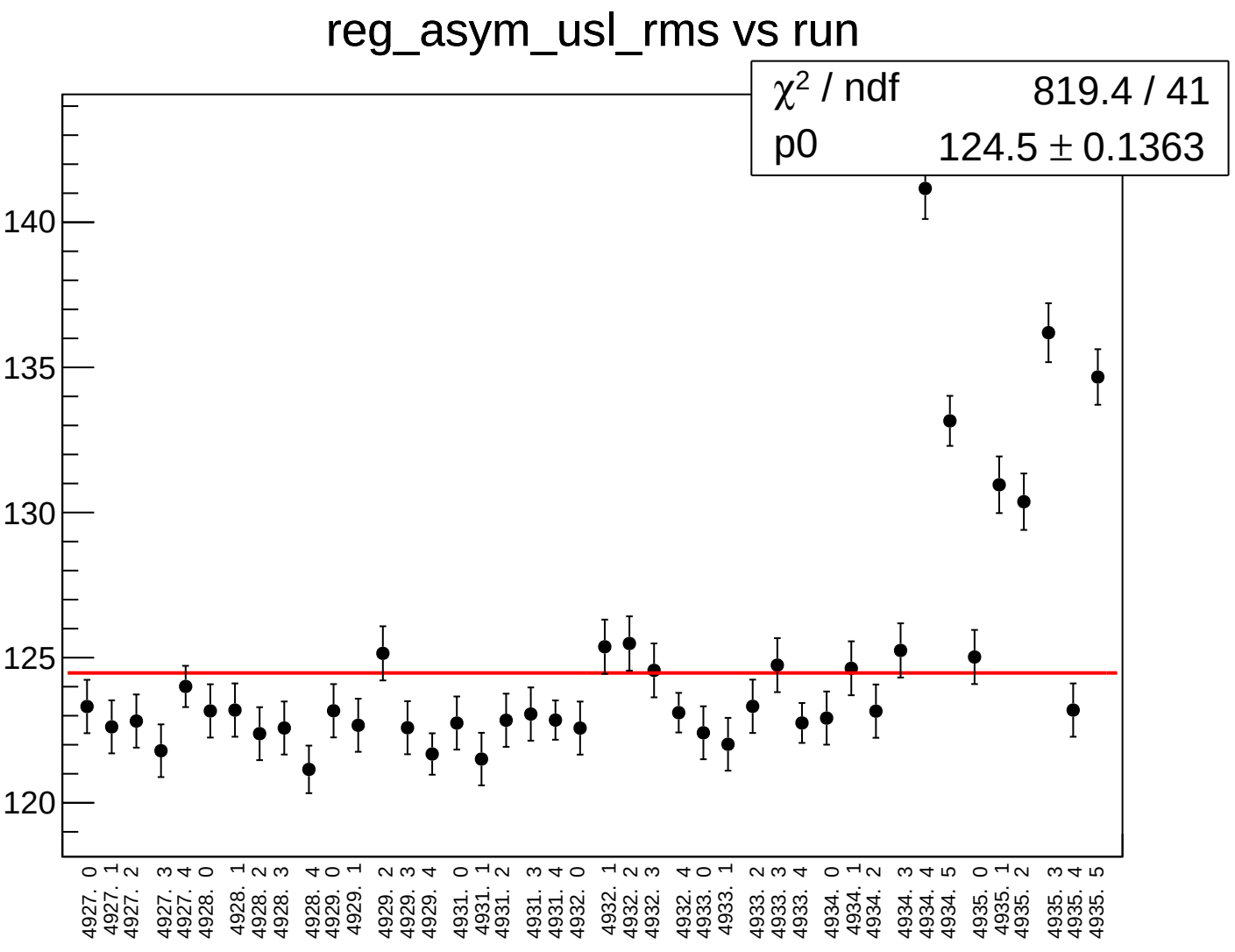

asym_ds_dd_mean vs run
χ² / ndf 27.12 / 41
p0 849 ± 517.2
10000
5000
0
−5000
−10000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −132.6
Std Dev 160.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

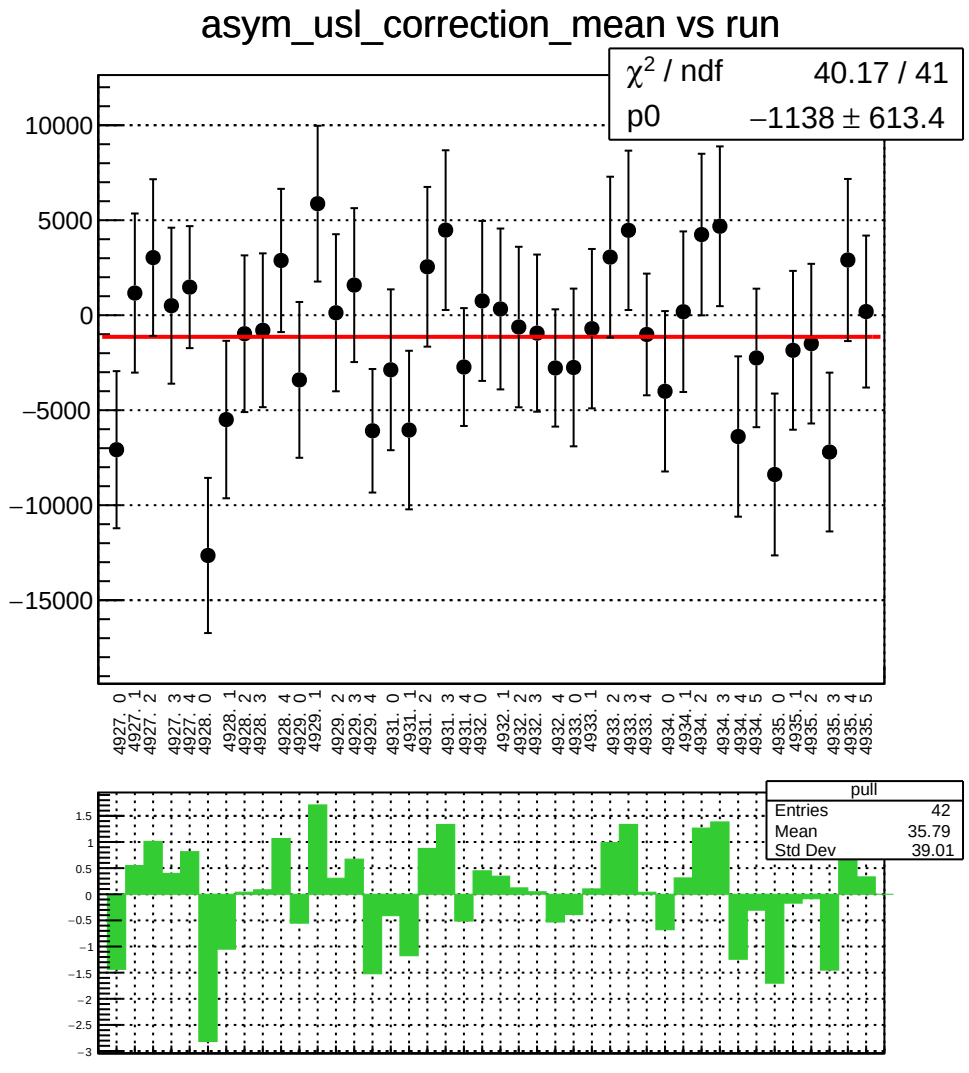

pull1D
Entries 42
Mean −0.004402
Std Dev 0.8035
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

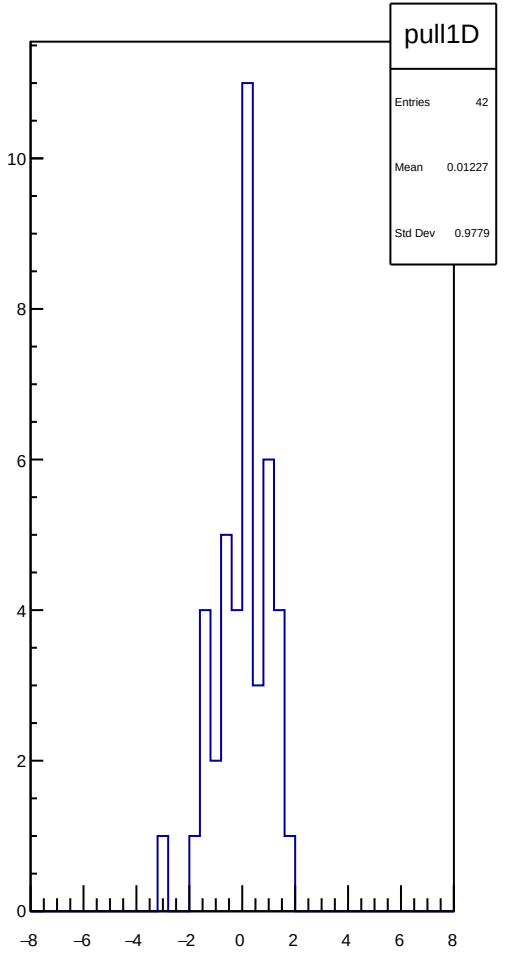

asym_ds_dd_rms vs run
χ² / ndf 142.5 / 41
p0 334 ± 0.3657
345
340
335
330
325
320
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

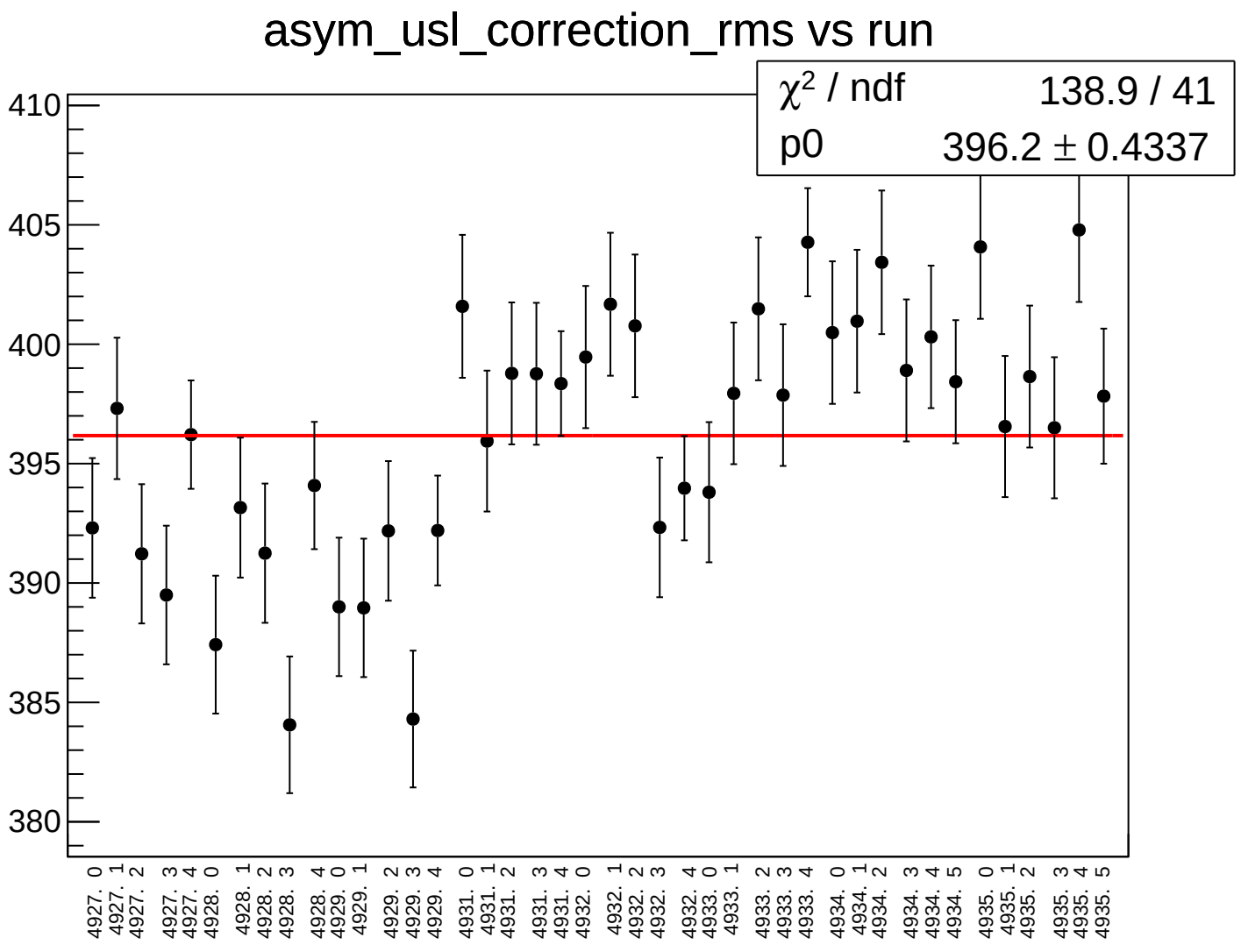

reg_asym_usl_mean vs run
χ² / ndf 39.17 / 41
p0 −60.49 ± 192.8
4000
3000
2000
1000
0
−1000
−2000
−3000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 586.7
Std Dev 566.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

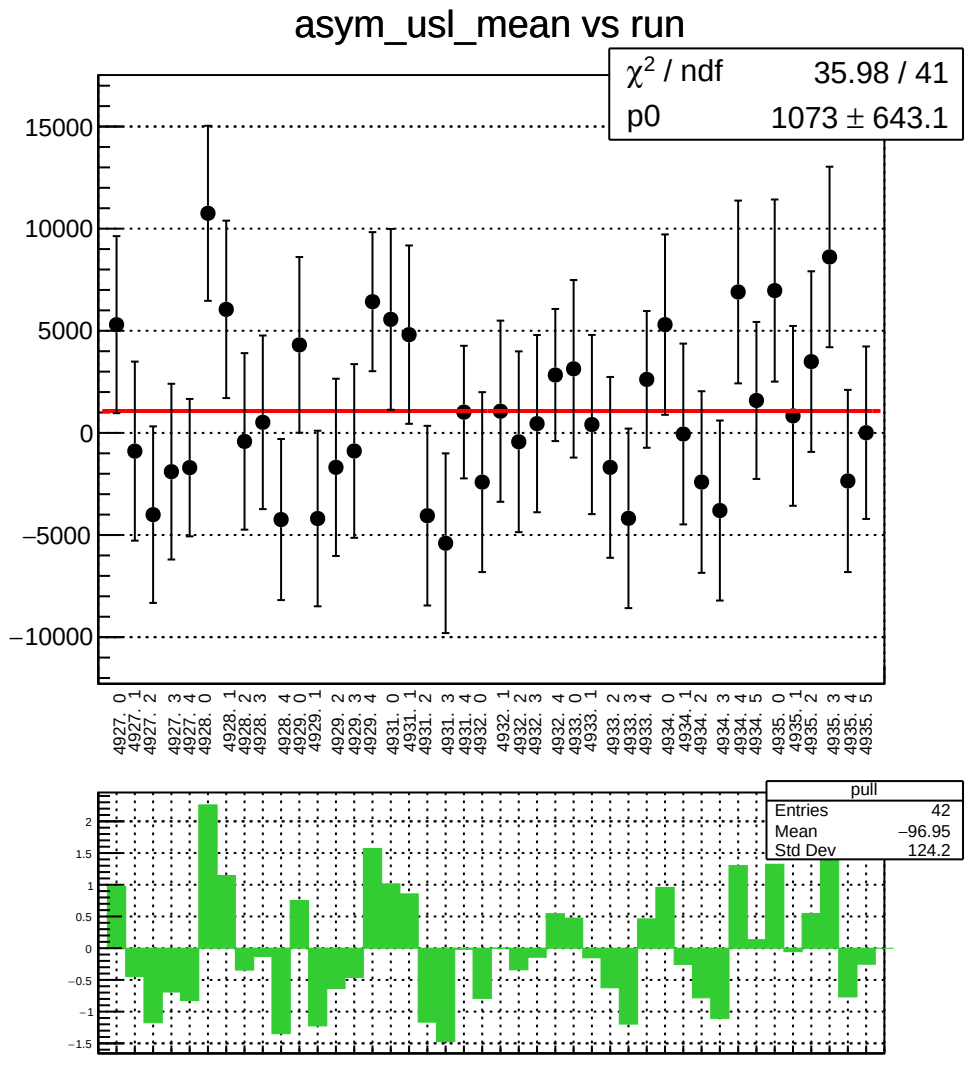

pull1D
Entries 42
Mean 0.007265
Std Dev 0.9657
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usl_rms vs run
χ² / ndf 819.4 / 41
p0 124.5 ± 0.1363
140
135
130
125
120
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5


asym_usl_correction_mean vs run
χ² / ndf 40.17 / 41
p0 −1138 ± 613.4
10000
5000
0
−5000
−10000
−15000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 35.79
Std Dev 39.01
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3


pull1D
Entries 42
Mean 0.01227
Std Dev 0.9779
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_correction_rms vs run
χ² / ndf 138.9 / 41
p0 396.2 ± 0.4337
410
405
400
395
390
385
380
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5


asym_usl_mean vs run
χ^2 / ndf 35.98 / 41
p0 1073 ± 643.1
15000
10000
5000
0
−5000
−10000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
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4932. 1
4932. 2
4932. 3
4932. 4
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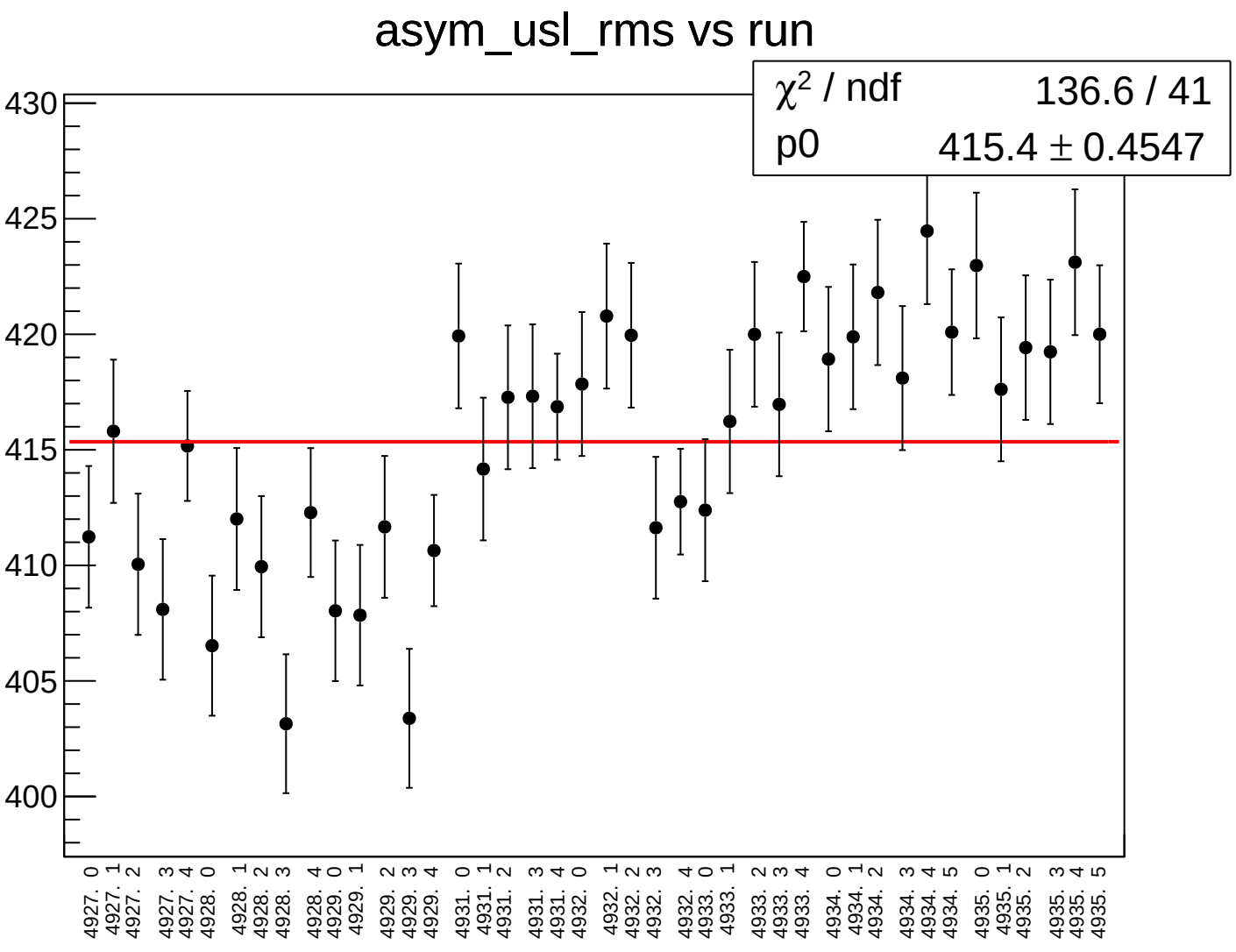
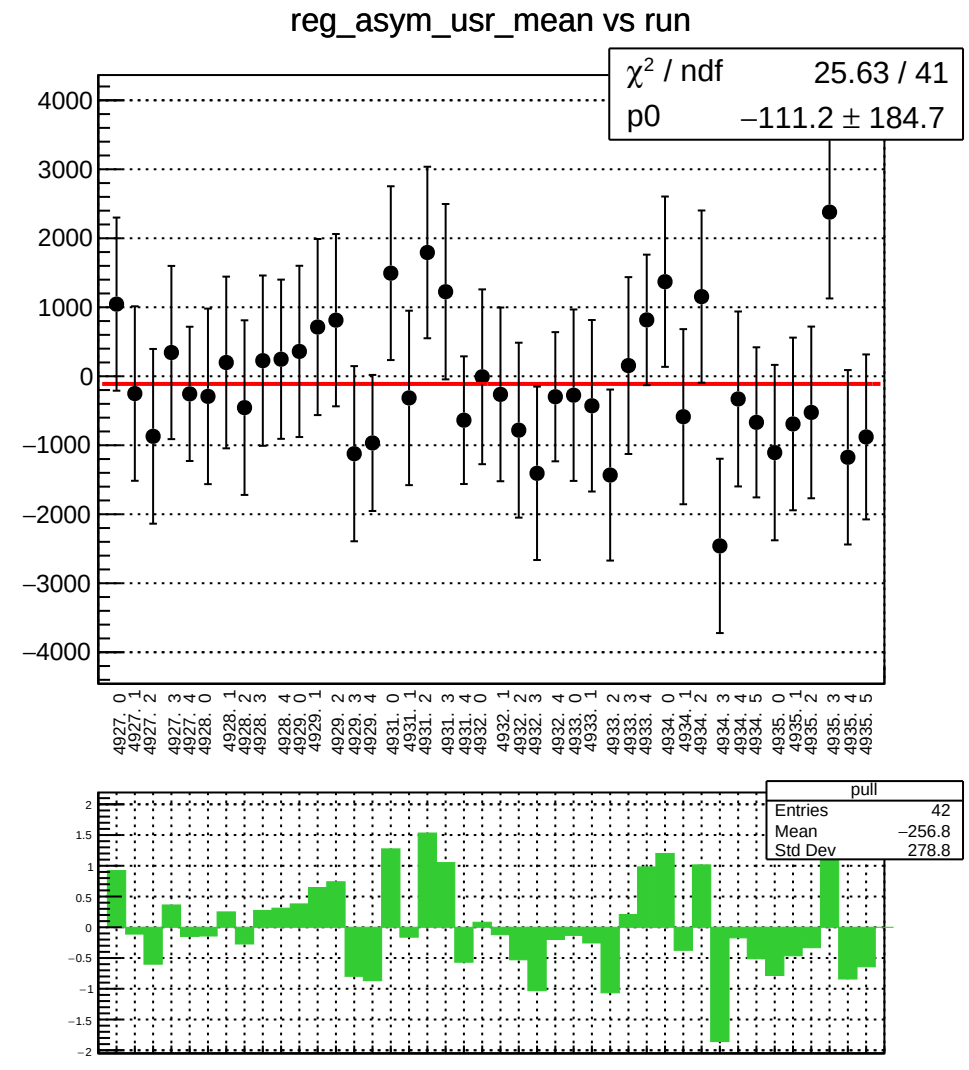
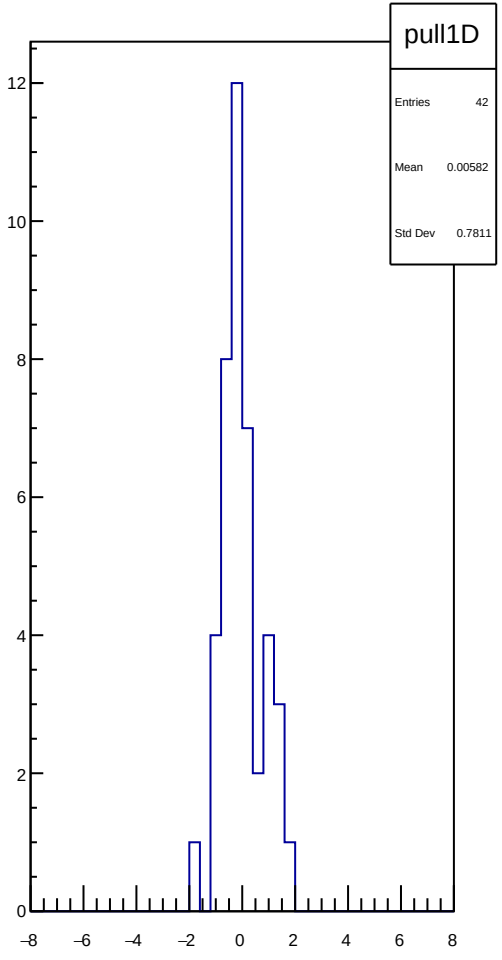
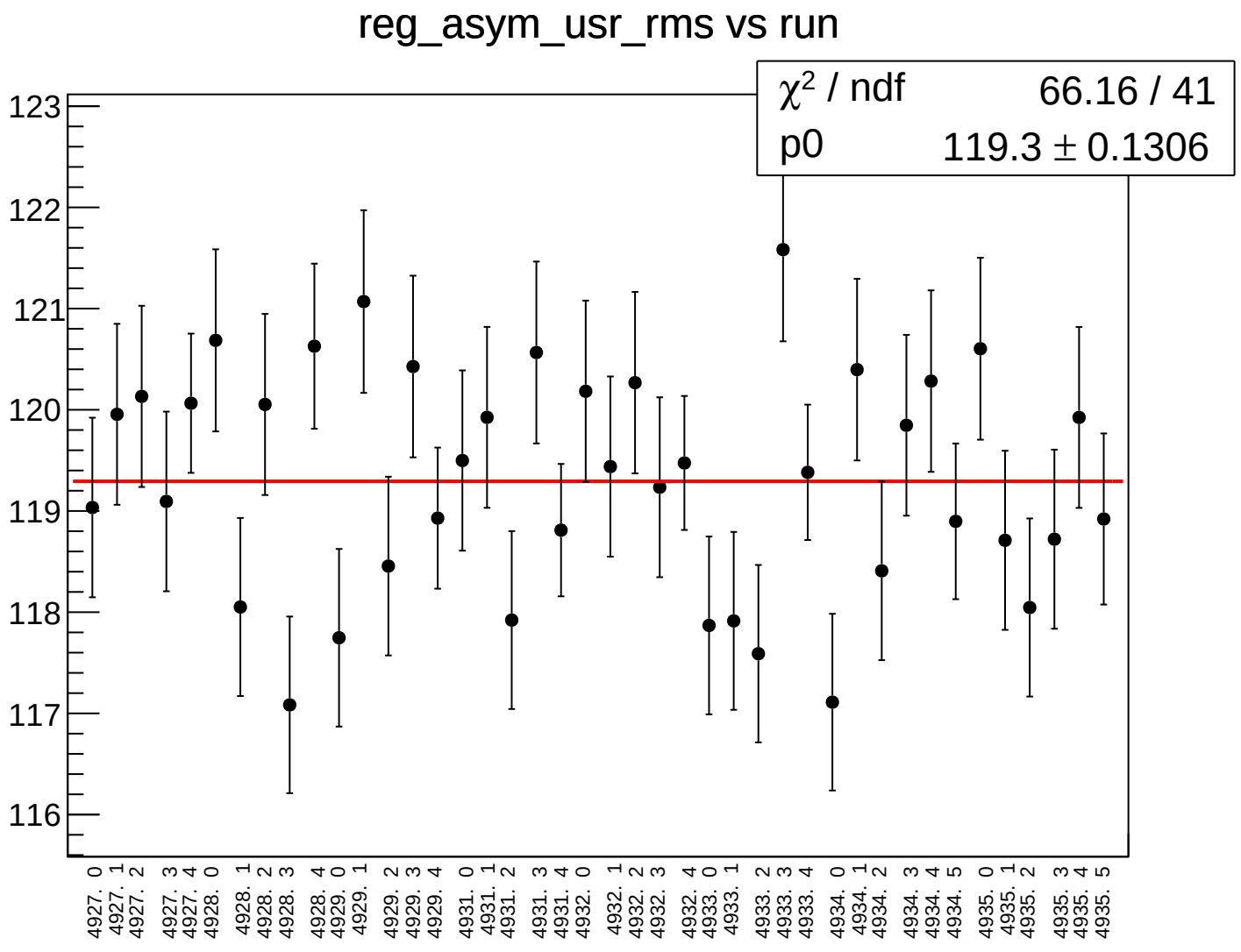
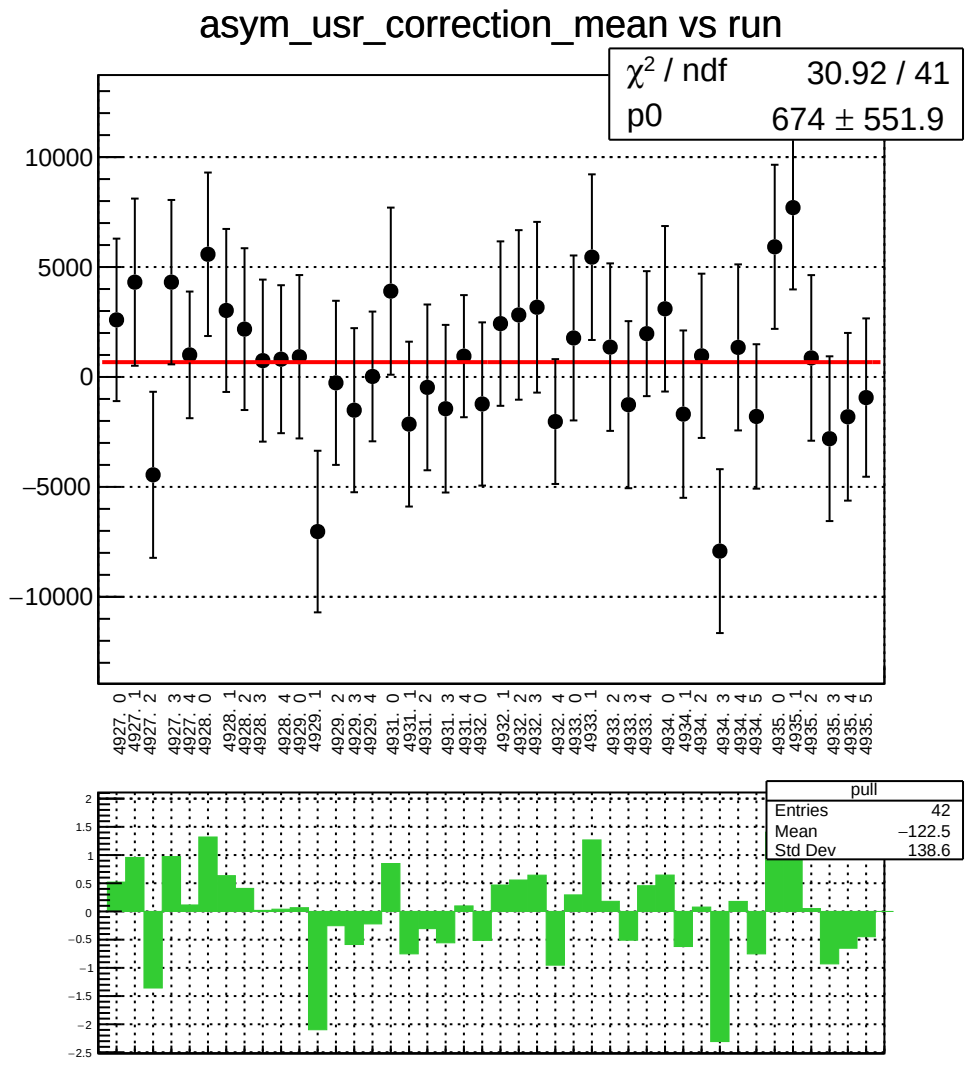
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −96.95
Std Dev 124.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean −0.008966
Std Dev 0.9255
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

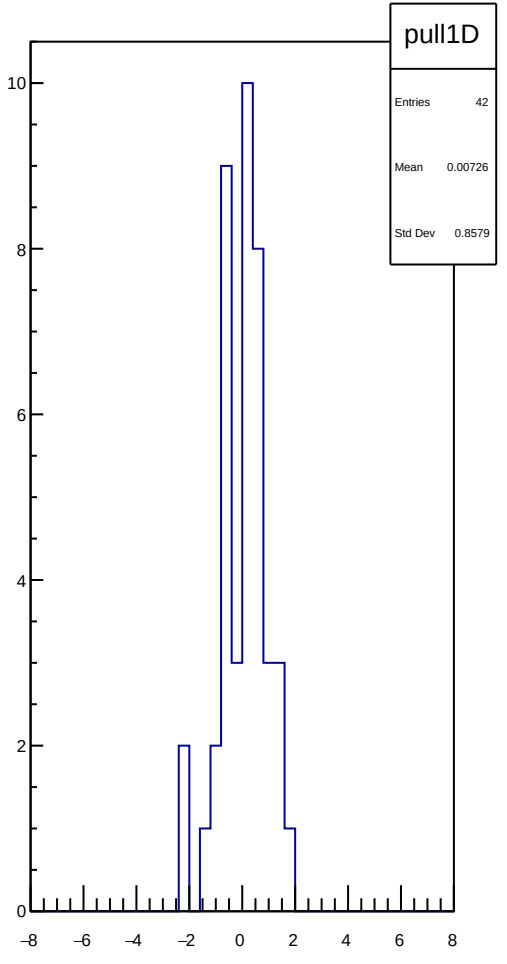

asym_usl_rms vs run
χ² / ndf 136.6 / 41
p0 415.4 ± 0.4547
430
425
420
415
410
405
400
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

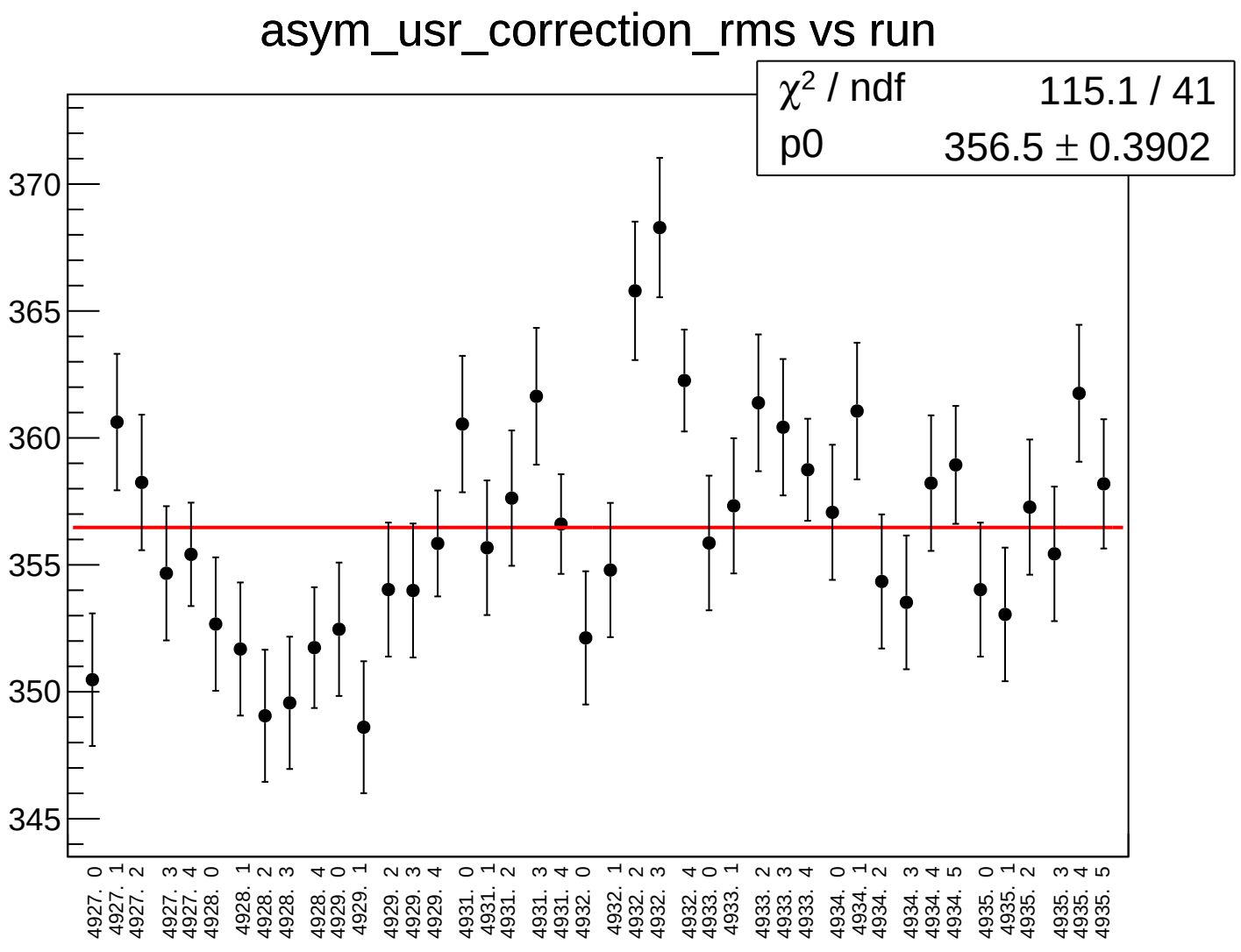

reg_asym_usr_mean vs run
χ² / ndf 25.63 / 41
p0 −111.2 ± 184.7
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −256.8
Std Dev 278.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

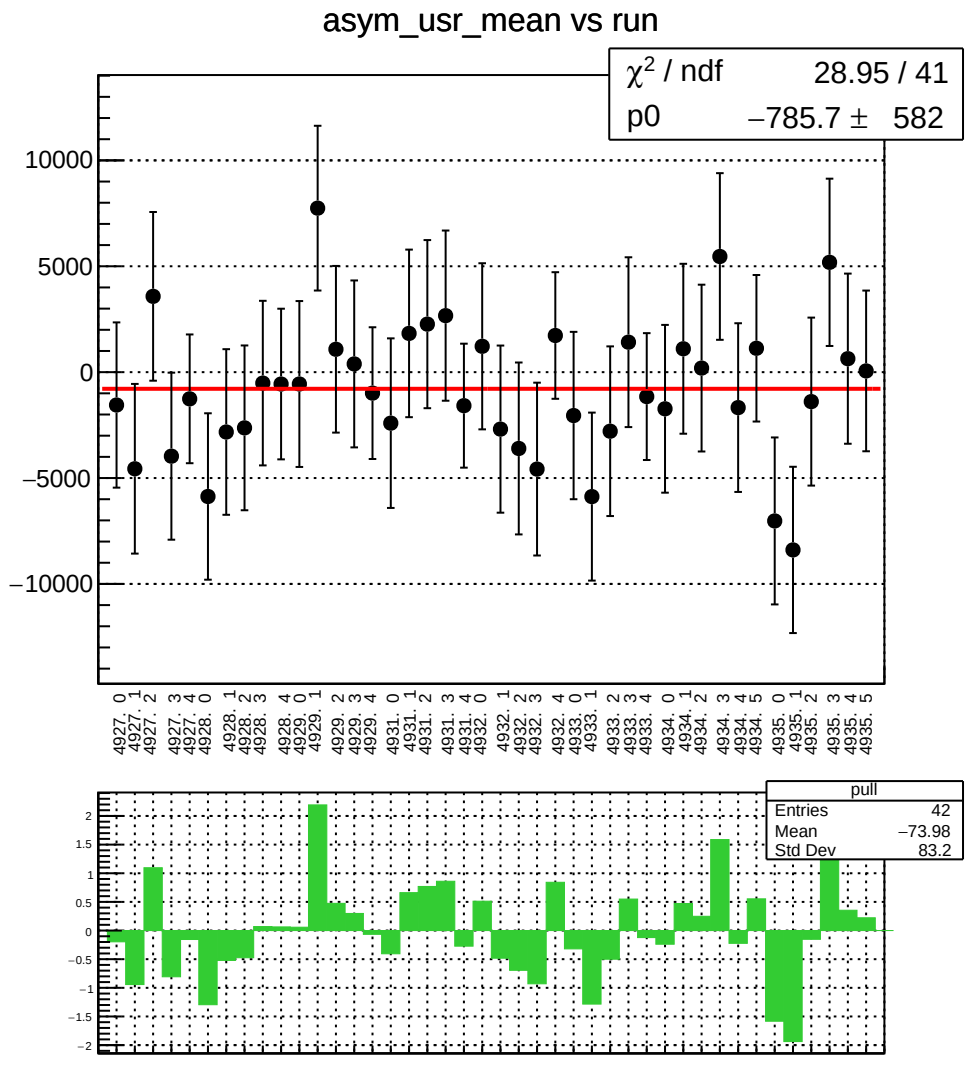

pull1D
Entries 42
Mean 0.00582
Std Dev 0.7811
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

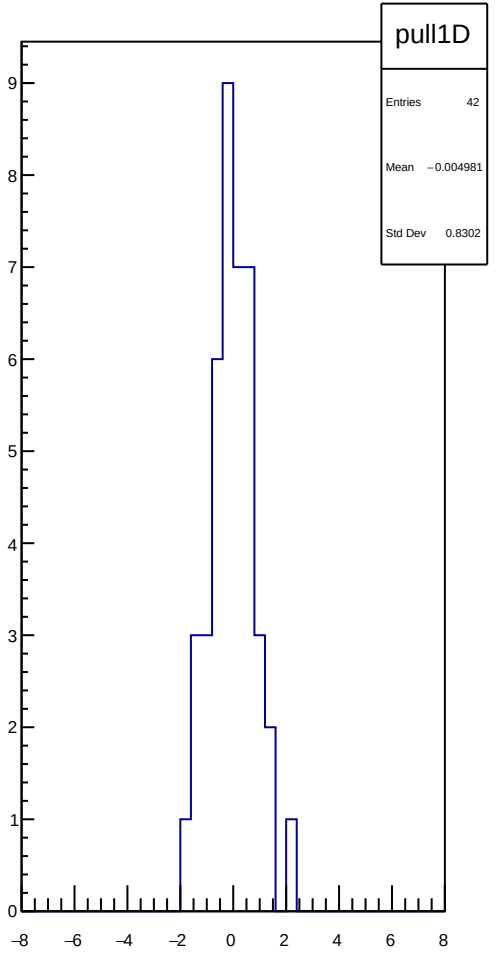

reg_asym_usr_rms vs run
χ² / ndf 66.16 / 41
p0 119.3 ± 0.1306
123
122
121
120
119
118
117
116
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

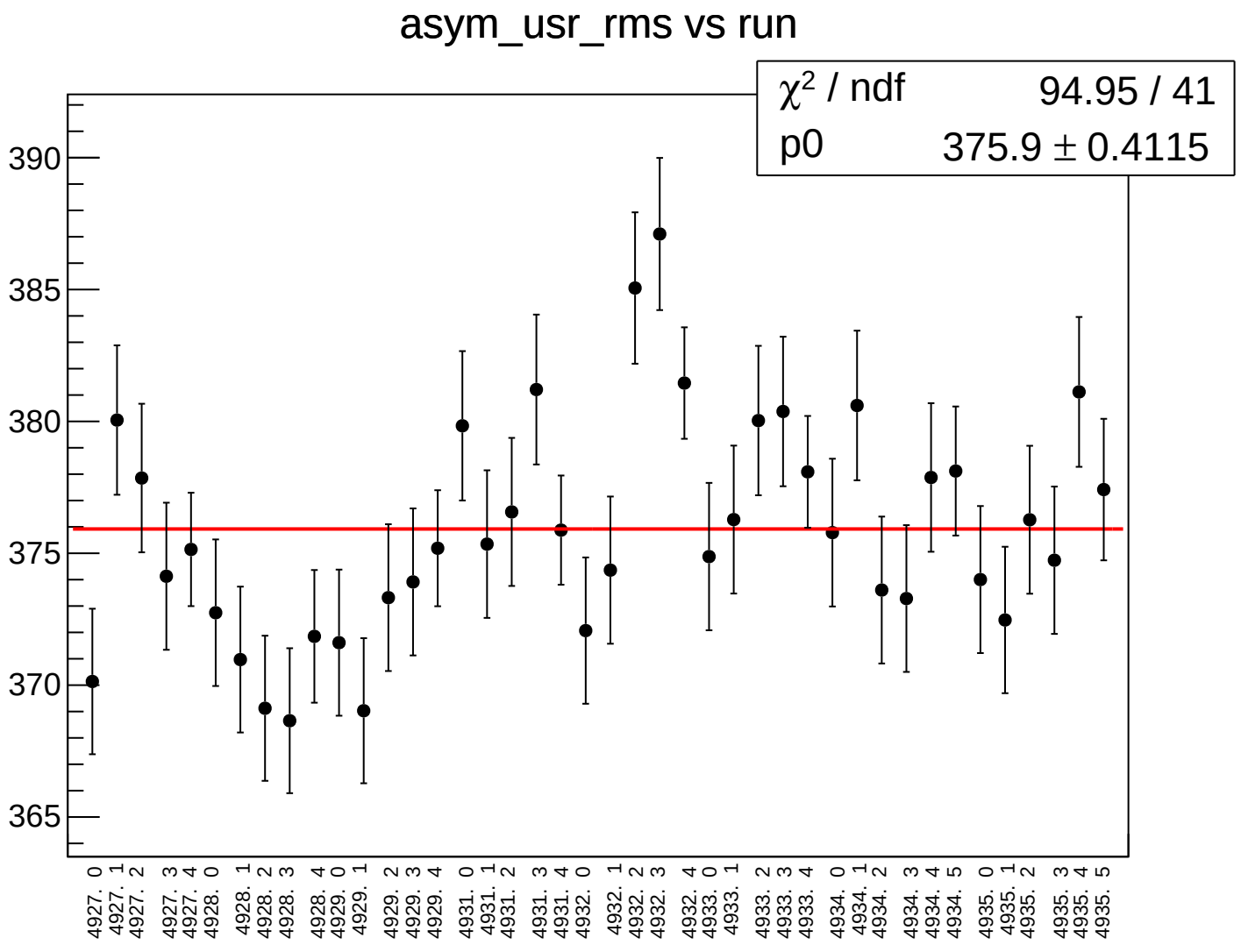

asym_usr_correction_mean vs run
χ² / ndf 30.92 / 41
p0 674 ± 551.9
10000
5000
0
−5000
−10000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −122.5
Std Dev 138.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

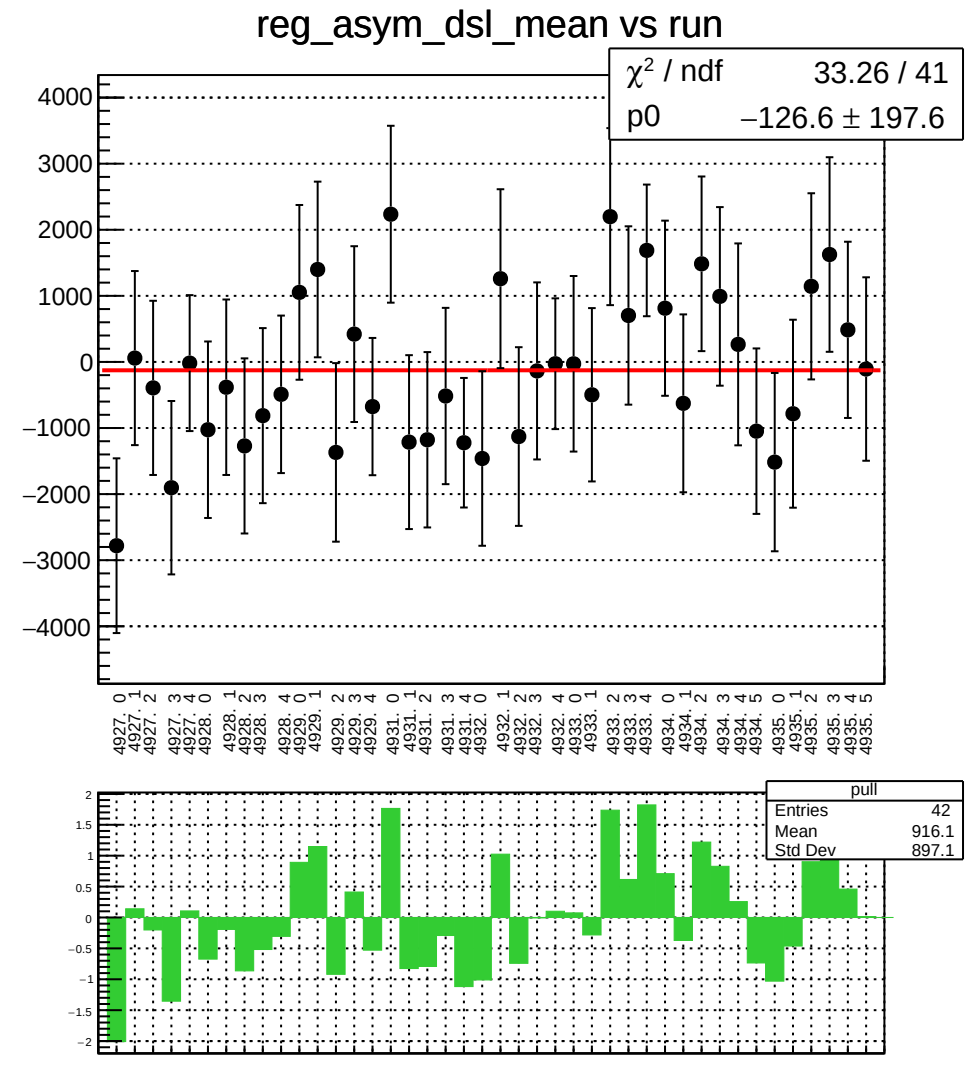

pull1D
Entries 42
Mean 0.00726
Std Dev 0.8579
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

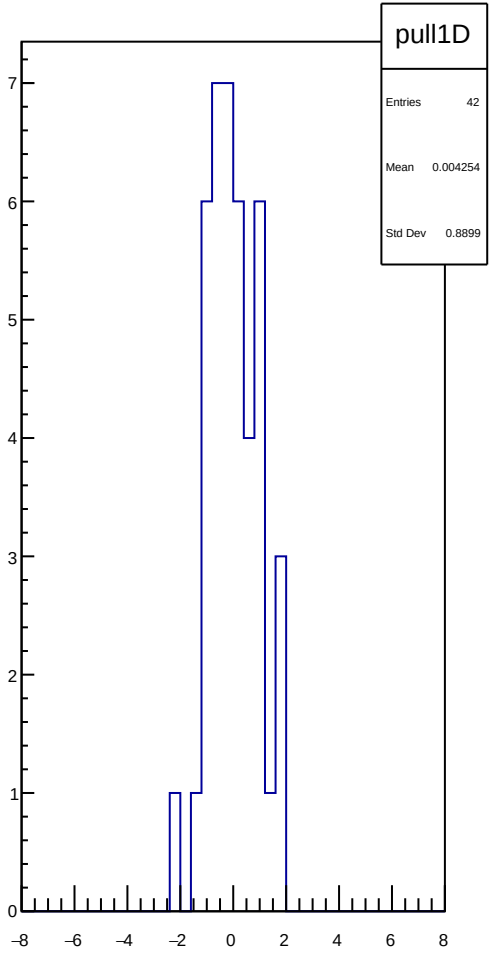

asym_usr_correction_rms vs run
χ² / ndf 115.1 / 41
p0 356.5 ± 0.3902
370
365
360
355
350
345
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

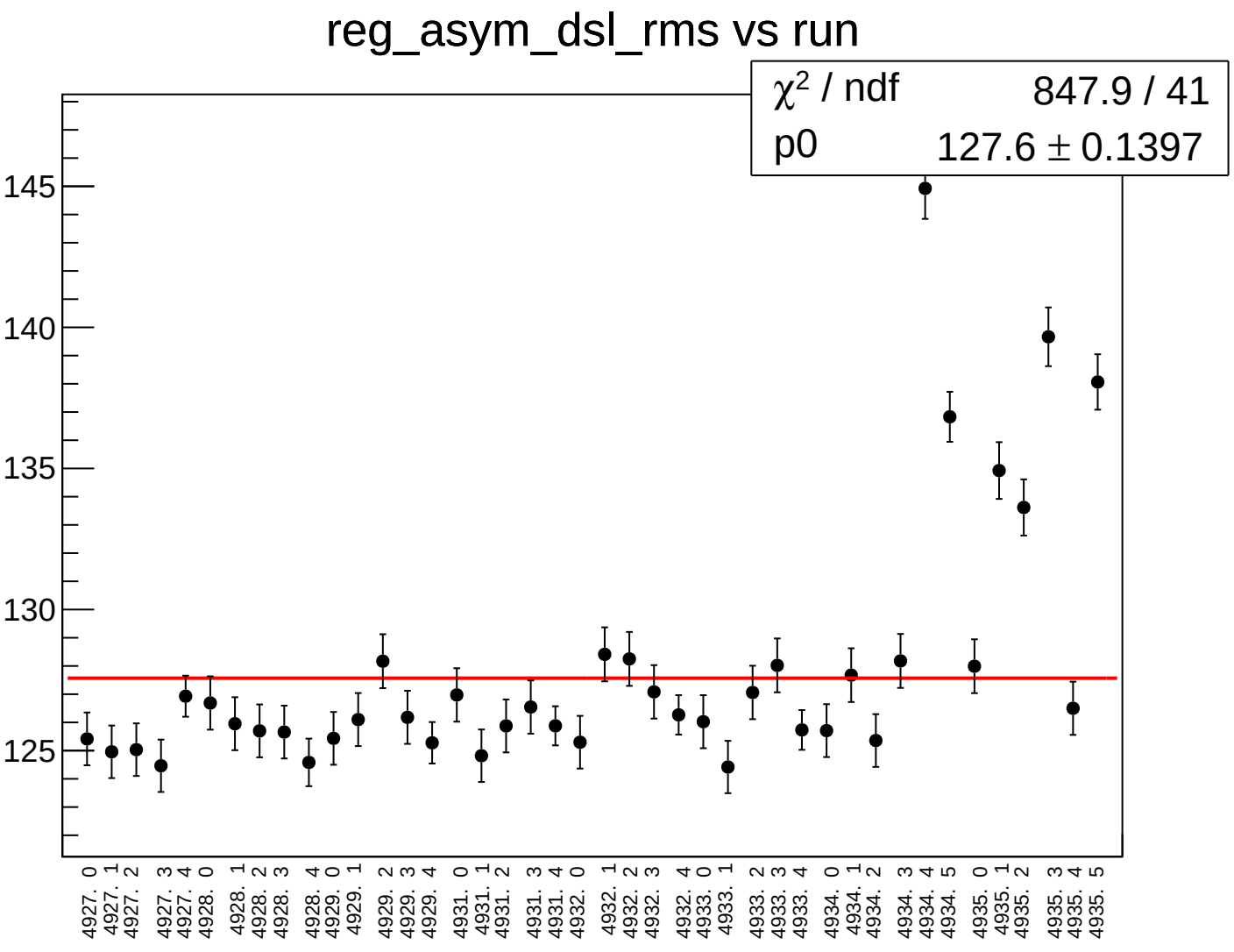

asym_usr_mean vs run
χ² / ndf 28.95 / 41
p0 −785.7 ± 582
10000
5000
0
−5000
−10000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −73.98
Std Dev 83.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

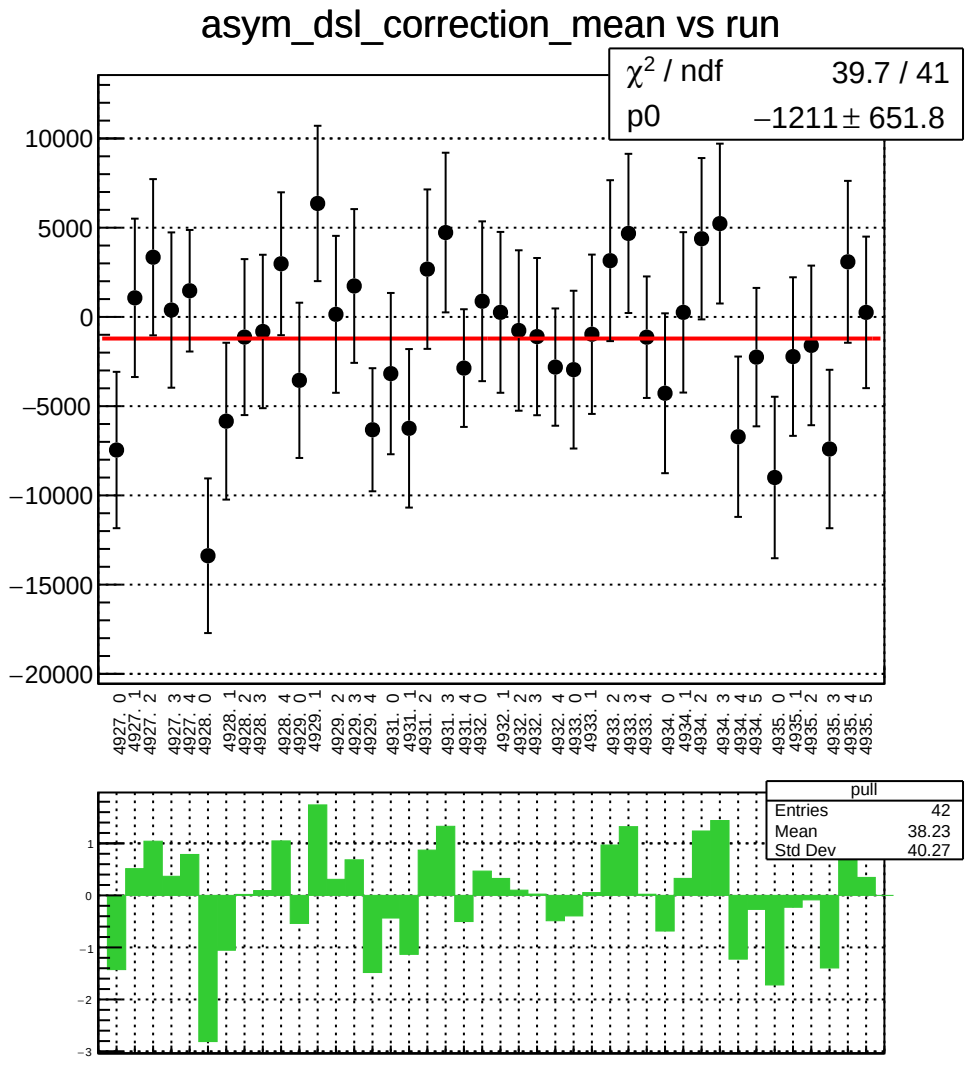

pull1D
Entries 42
Mean −0.004981
Std Dev 0.8302
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

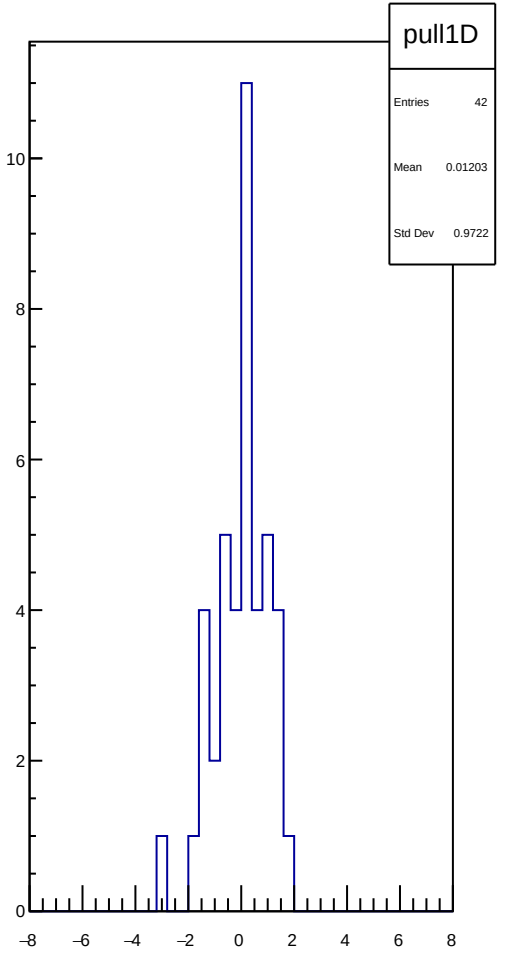

asym_usr_rms vs run
χ² / ndf 94.95 / 41
p0 375.9 ± 0.4115
390
385
380
375
370
365
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

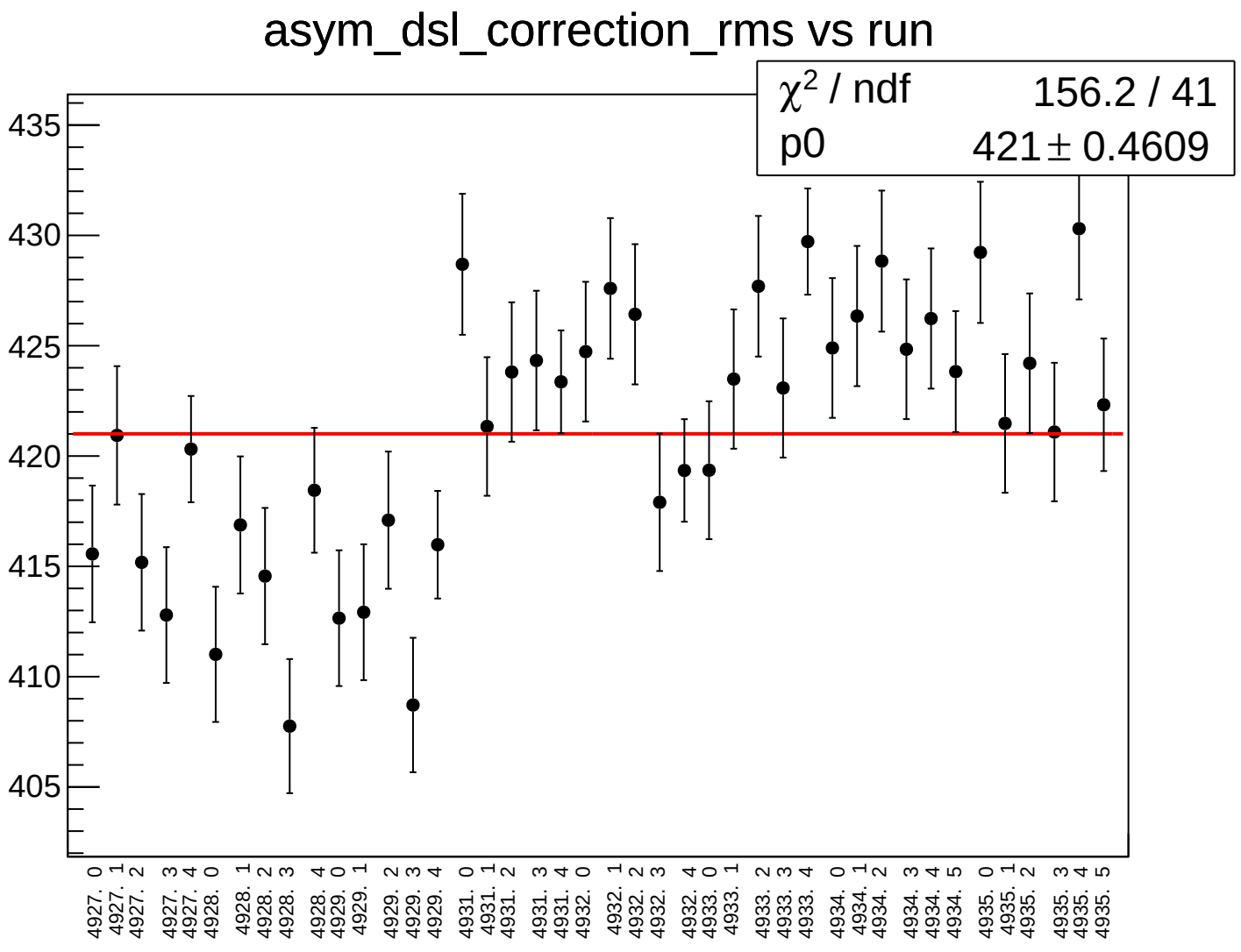

reg_asym_dsl_mean vs run
χ² / ndf 33.26 / 41
p0 −126.6 ± 197.6
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 916.1
Std Dev 897.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

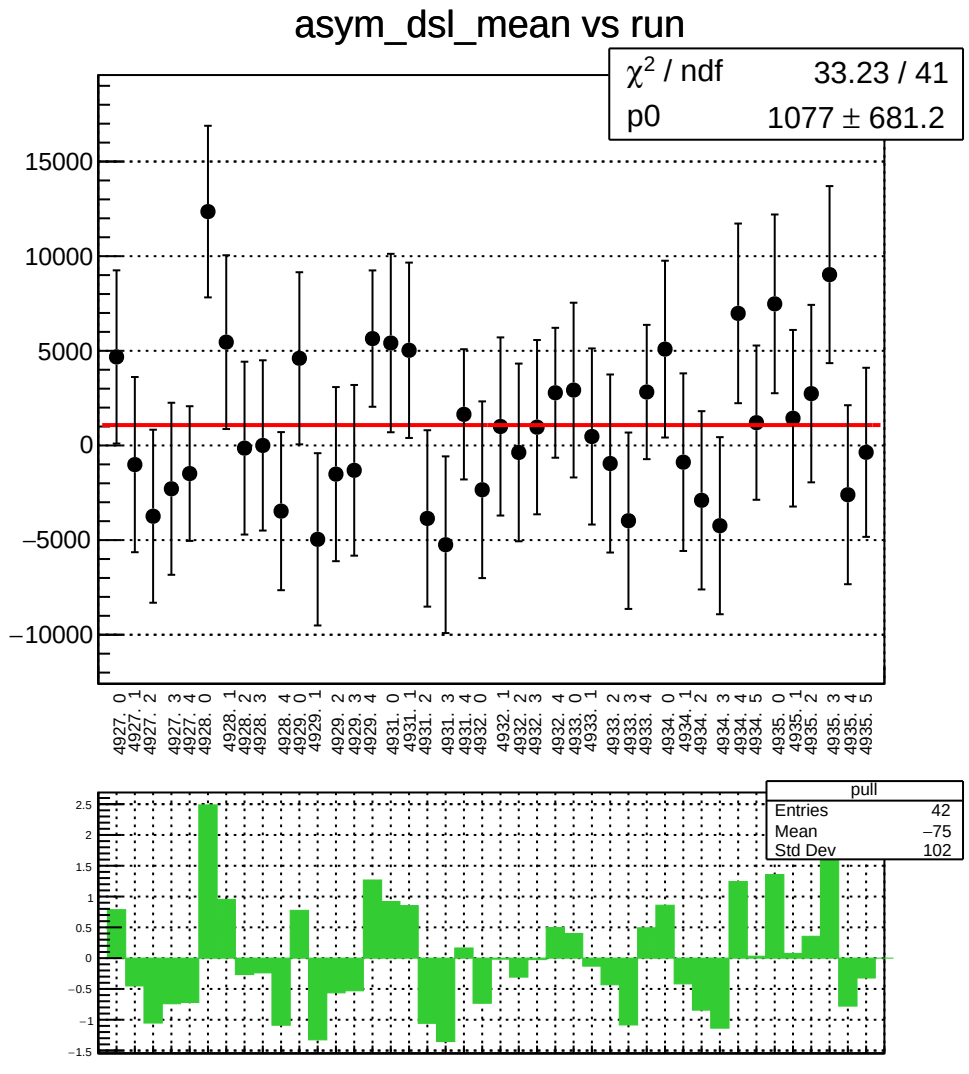

pull1D
Entries 42
Mean 0.004254
Std Dev 0.8899
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

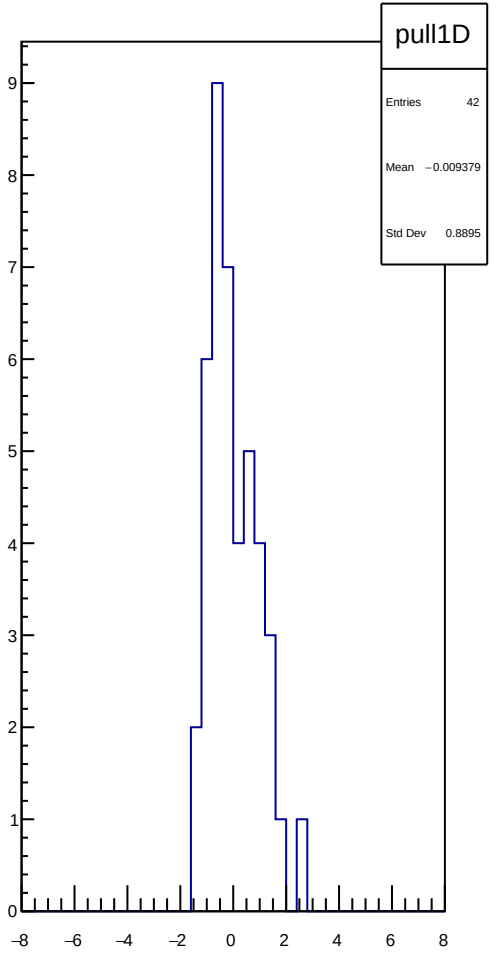

reg_asym_dsl_rms vs run
χ² / ndf 847.9 / 41
p0 127.6 ± 0.1397
145
140
135
130
125
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

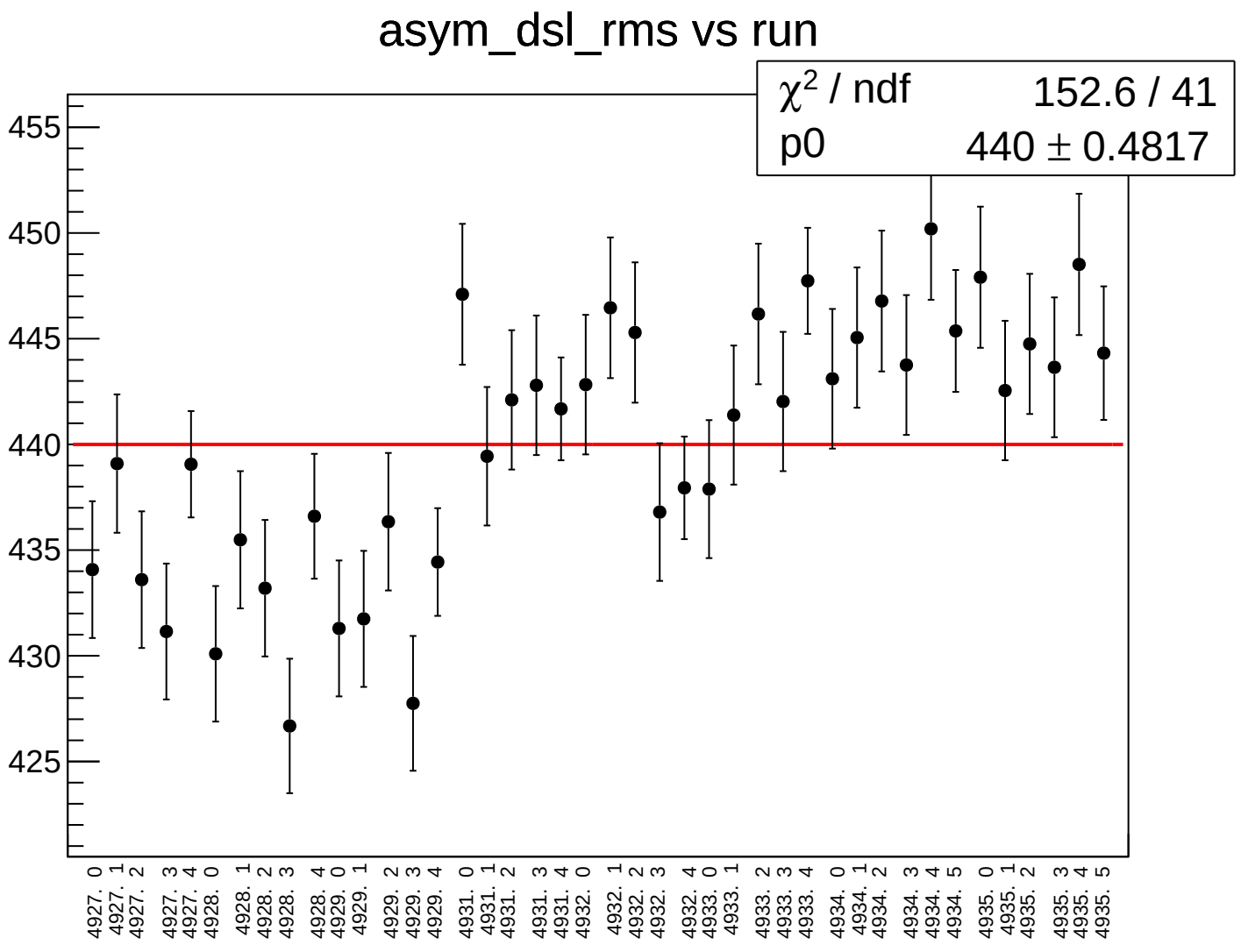

asym_dsl_correction_mean vs run
χ² / ndf 39.7 / 41
p0 −1211 ± 651.8
10000
5000
0
−5000
−10000
−15000
−20000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 38.23
Std Dev 40.27
1
0
−1
−2
−3

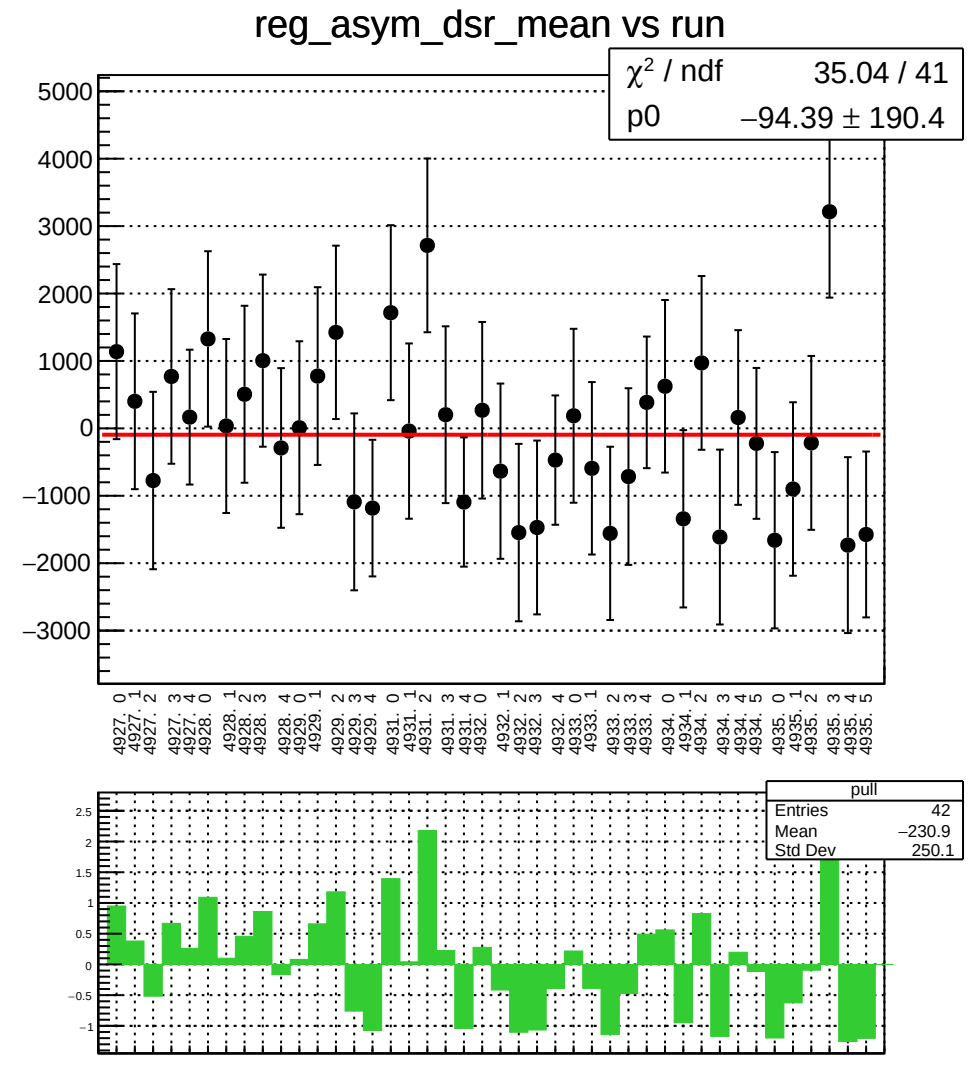

pull1D
Entries 42
Mean 0.01203
Std Dev 0.9722
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

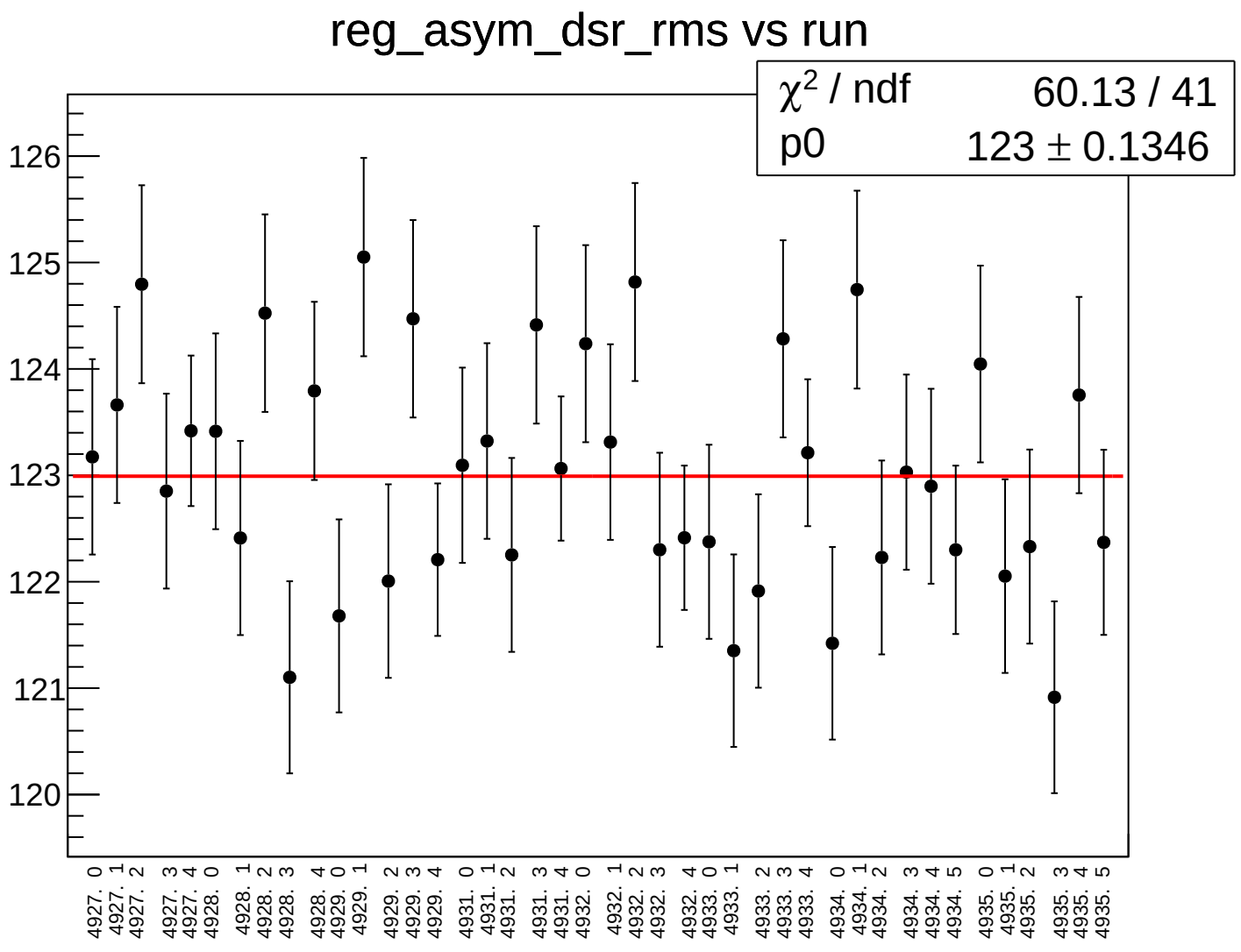

asym_dsl_correction_rms vs run
χ² / ndf 156.2 / 41
p0 421 ± 0.4609
435
430
425
420
415
410
405
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

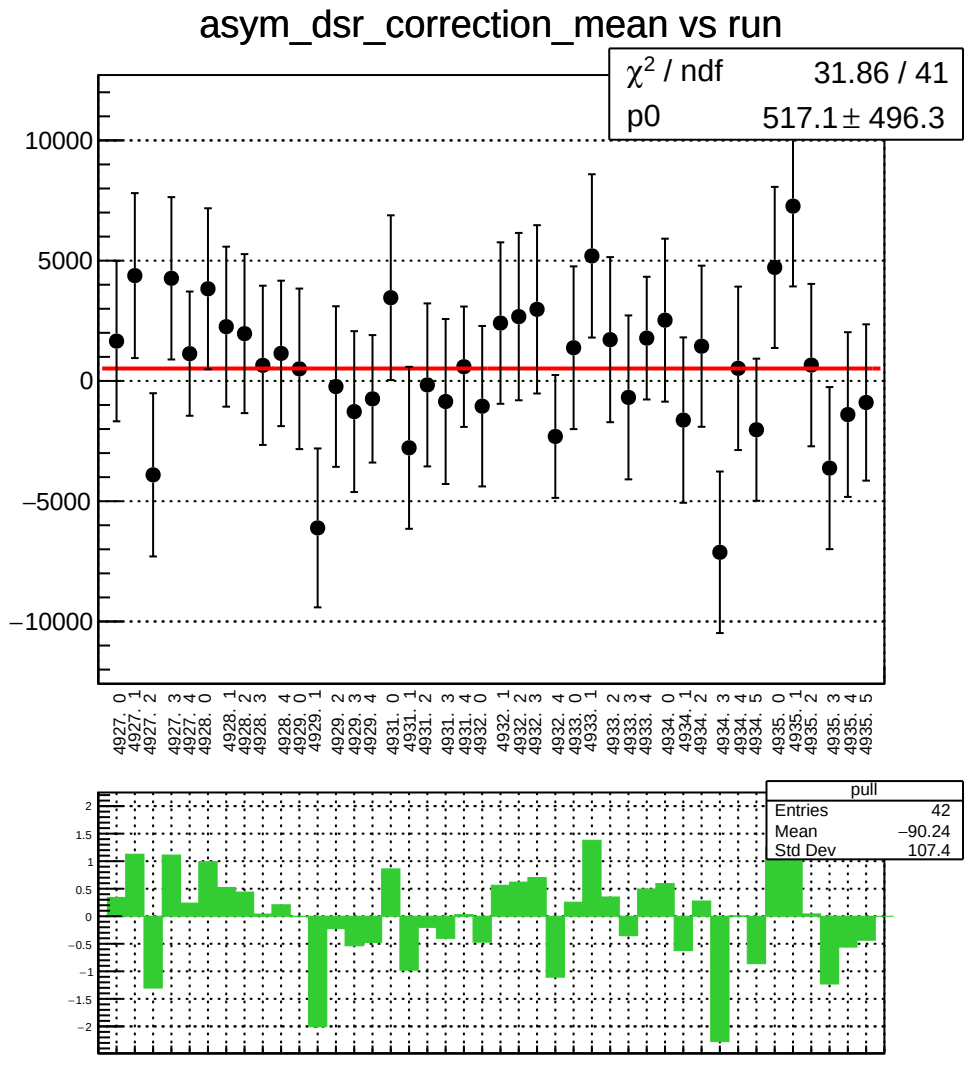

asym_dsl_mean vs run
χ² / ndf 33.23 / 41
p0 1077 ± 681.2
15000
10000
5000
0
−5000
−10000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −75
Std Dev 102
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

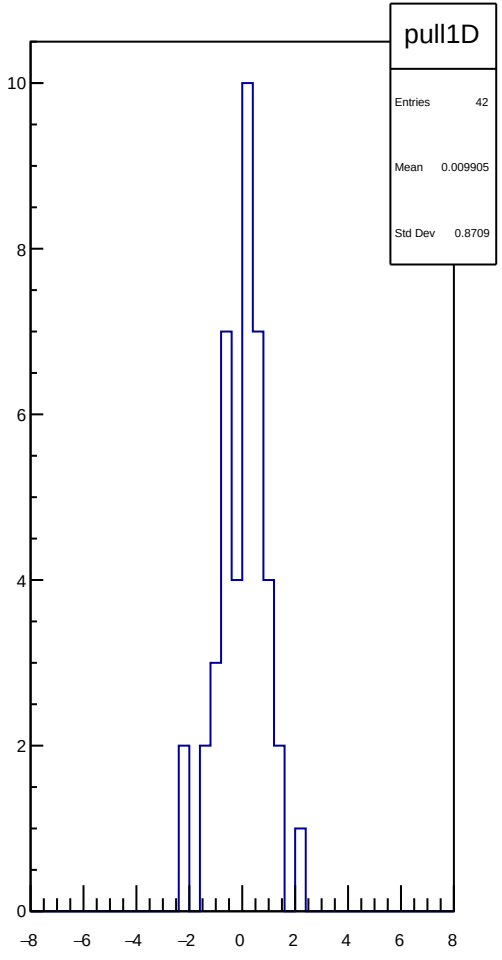

pull1D
Entries 42
Mean −0.009379
Std Dev 0.8895
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

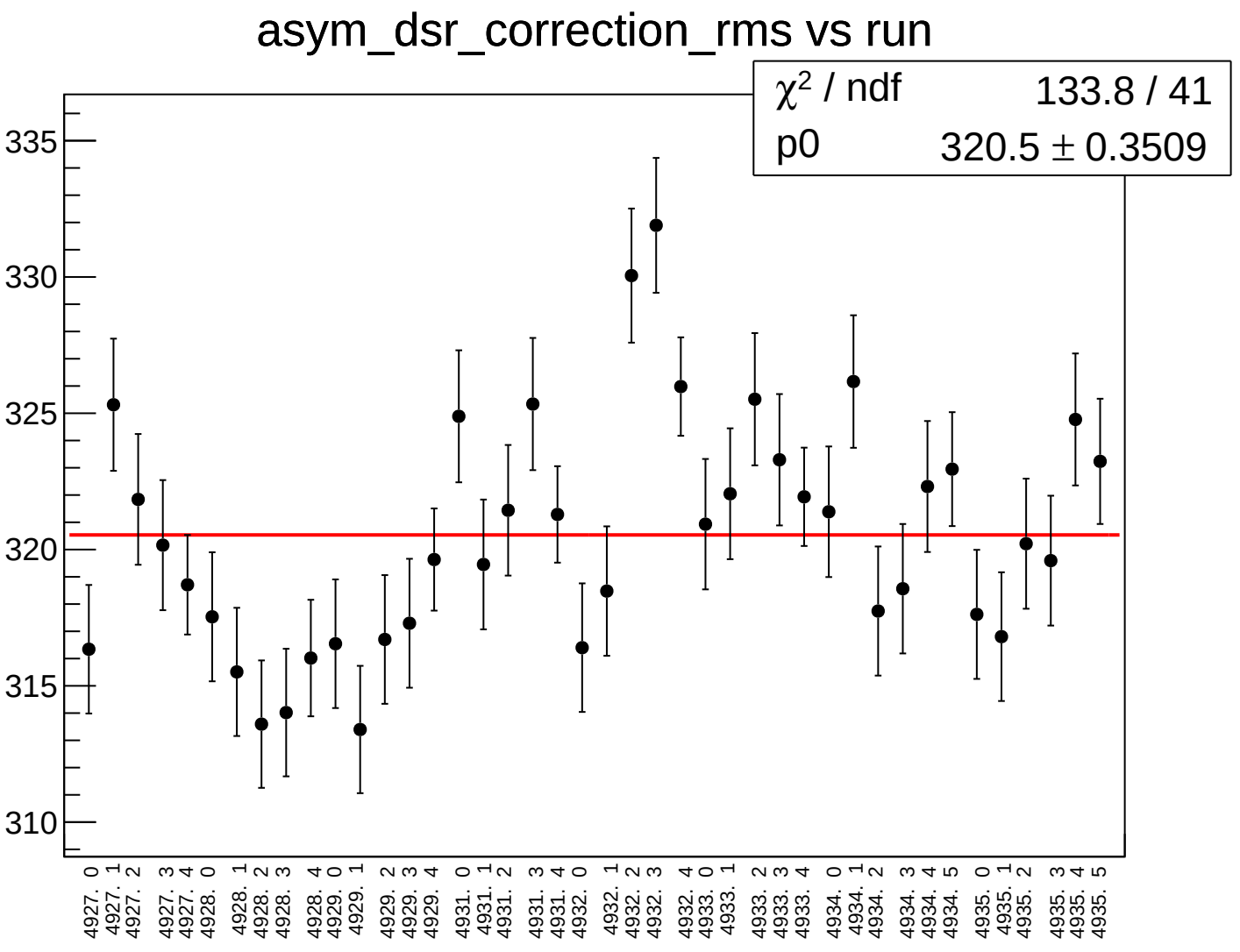

asym_dsl_rms vs run
χ² / ndf 152.6 / 41
p0 440 ± 0.4817
455
450
445
440
435
430
425
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

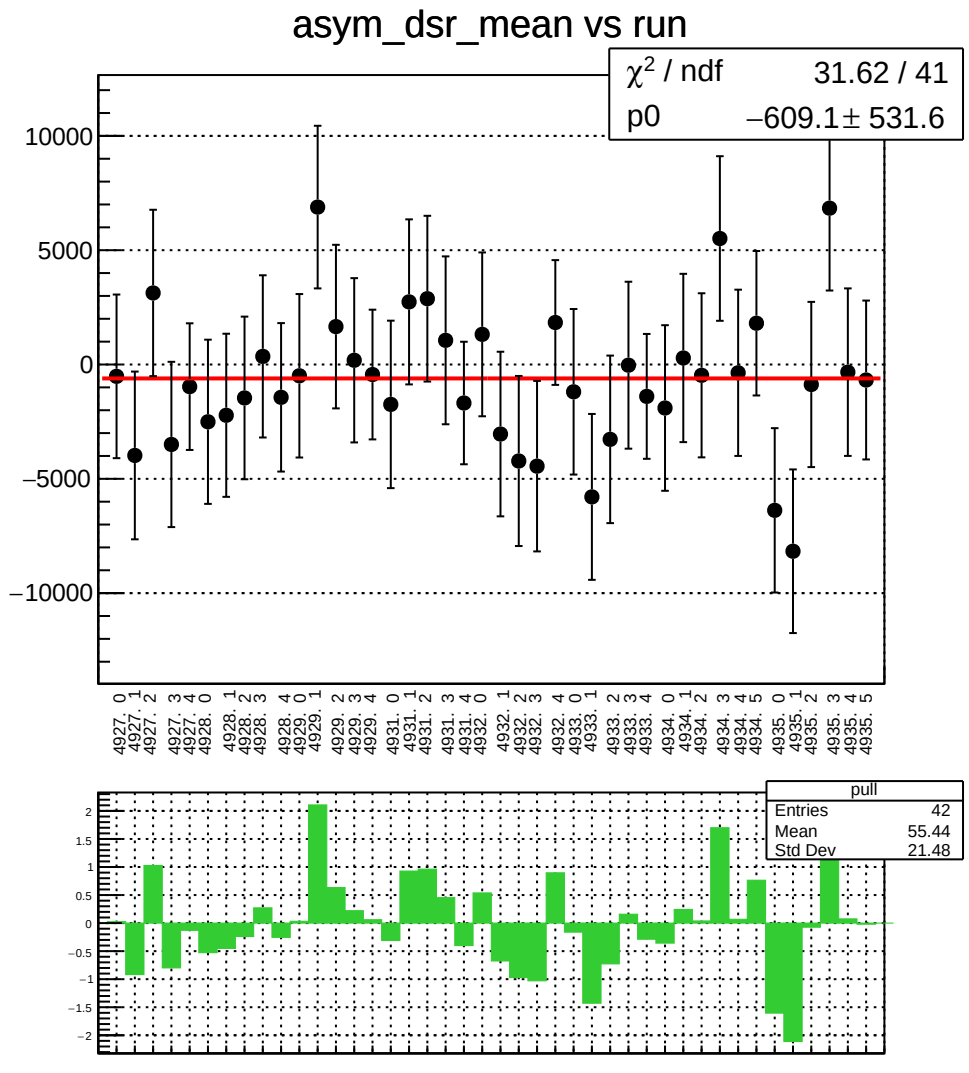

reg_asym_dsr_mean vs run
χ² / ndf 35.04 / 41
p0 −94.39 ± 190.4
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −230.9
Std Dev 250.1
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 42
Mean 0.01324
Std Dev 0.9133
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

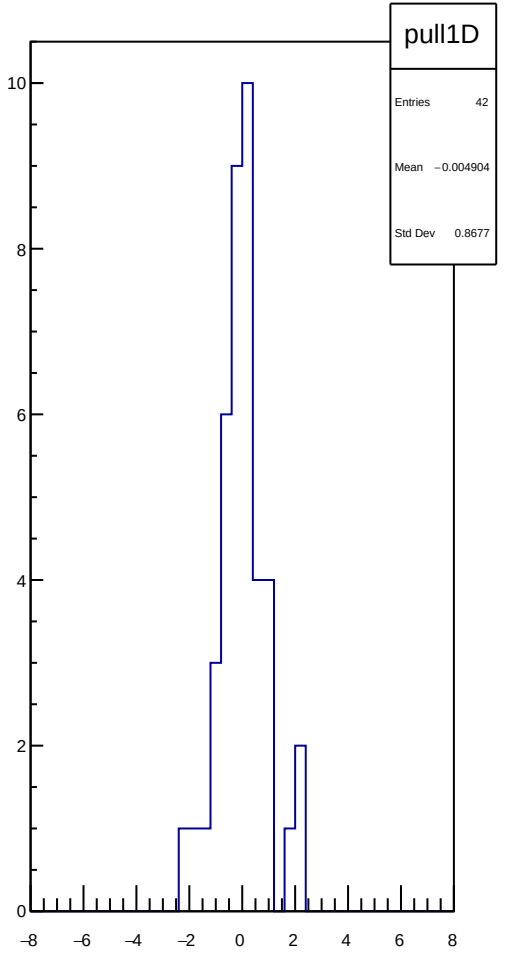

reg_asym_dsr_rms vs run
χ^2 / ndf 60.13 / 41
p0 123 ± 0.1346
126
125
124
123
122
121
120
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

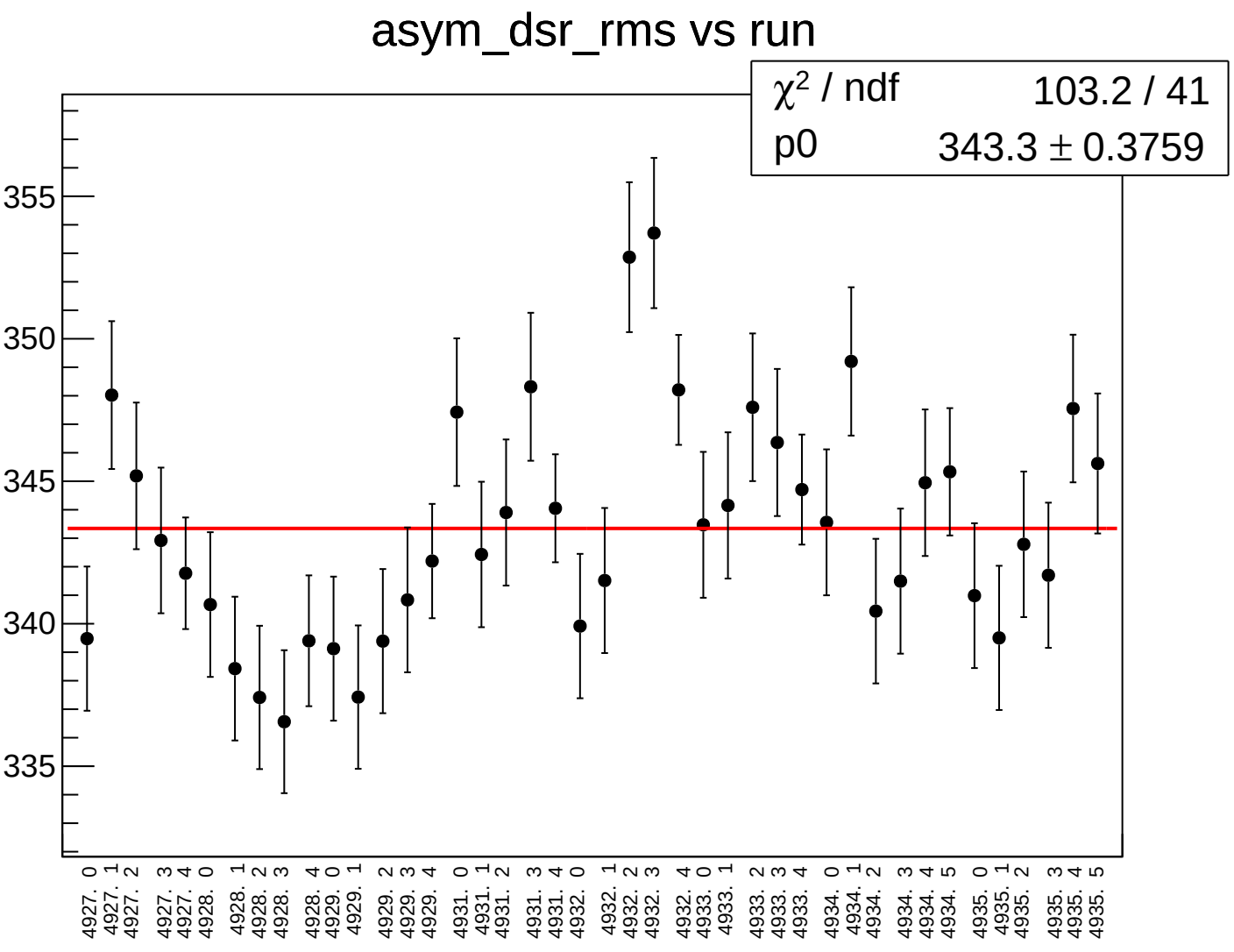

asym_dsr_correction_mean vs run
χ² / ndf 31.86 / 41
p0 517.1 ± 496.3
10000
5000
0
−5000
−10000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −90.24
Std Dev 107.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

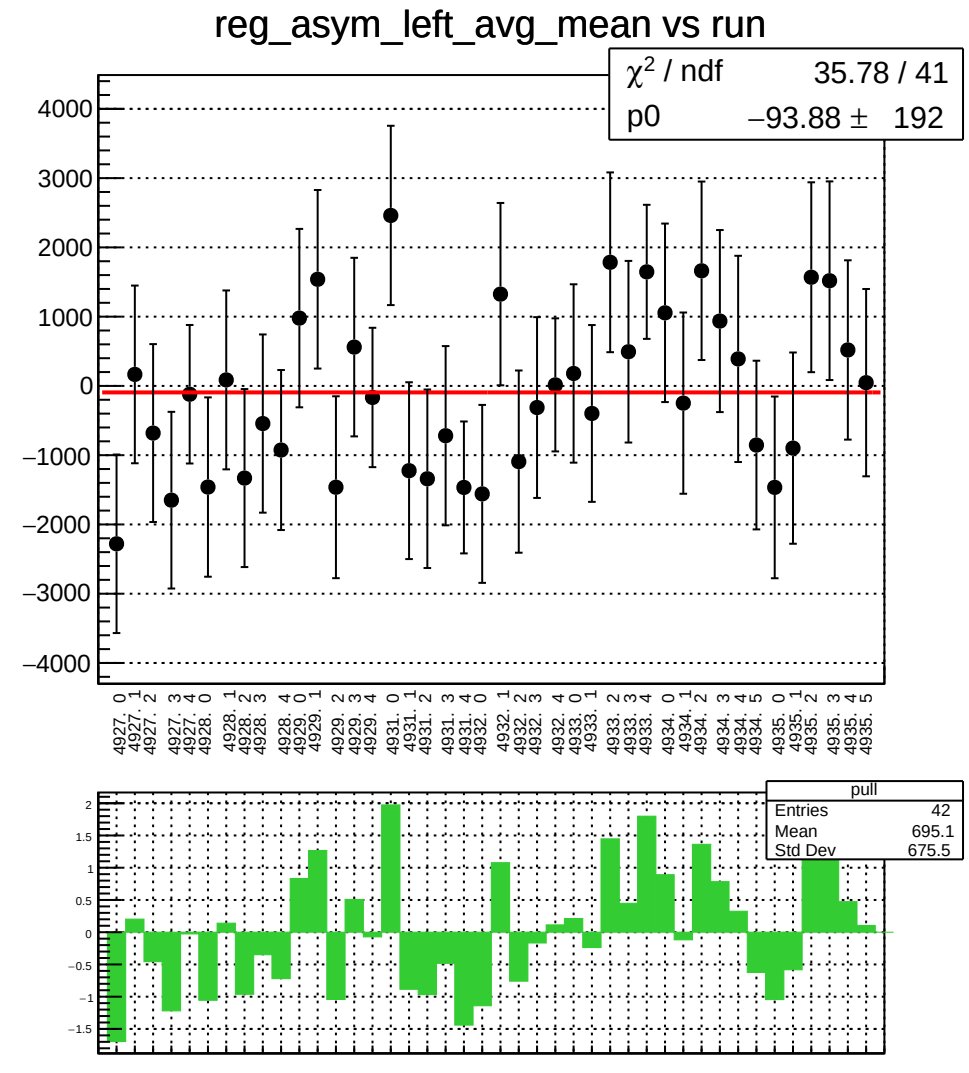

pull1D
Entries 42
Mean 0.009905
Std Dev 0.8709
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

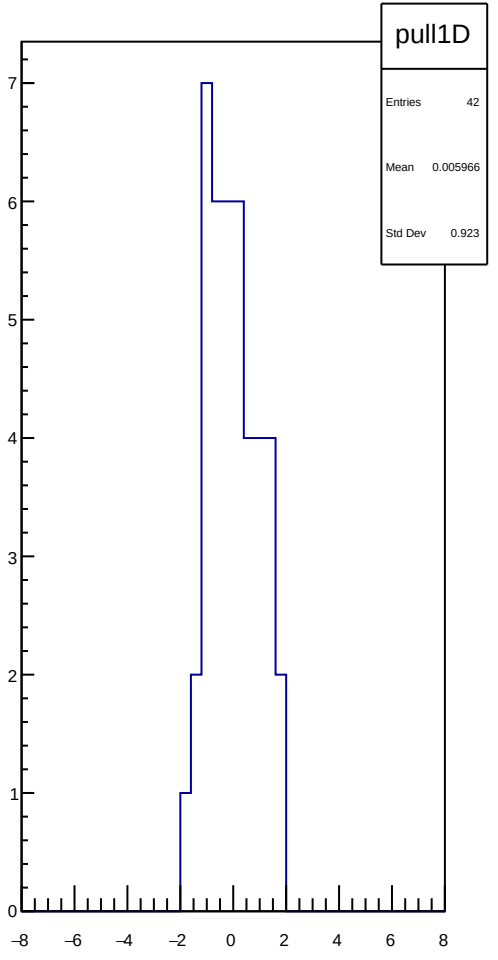

asym_dsr_correction_rms vs run
χ² / ndf 133.8 / 41
p0 320.5 ± 0.3509
335
330
325
320
315
310
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

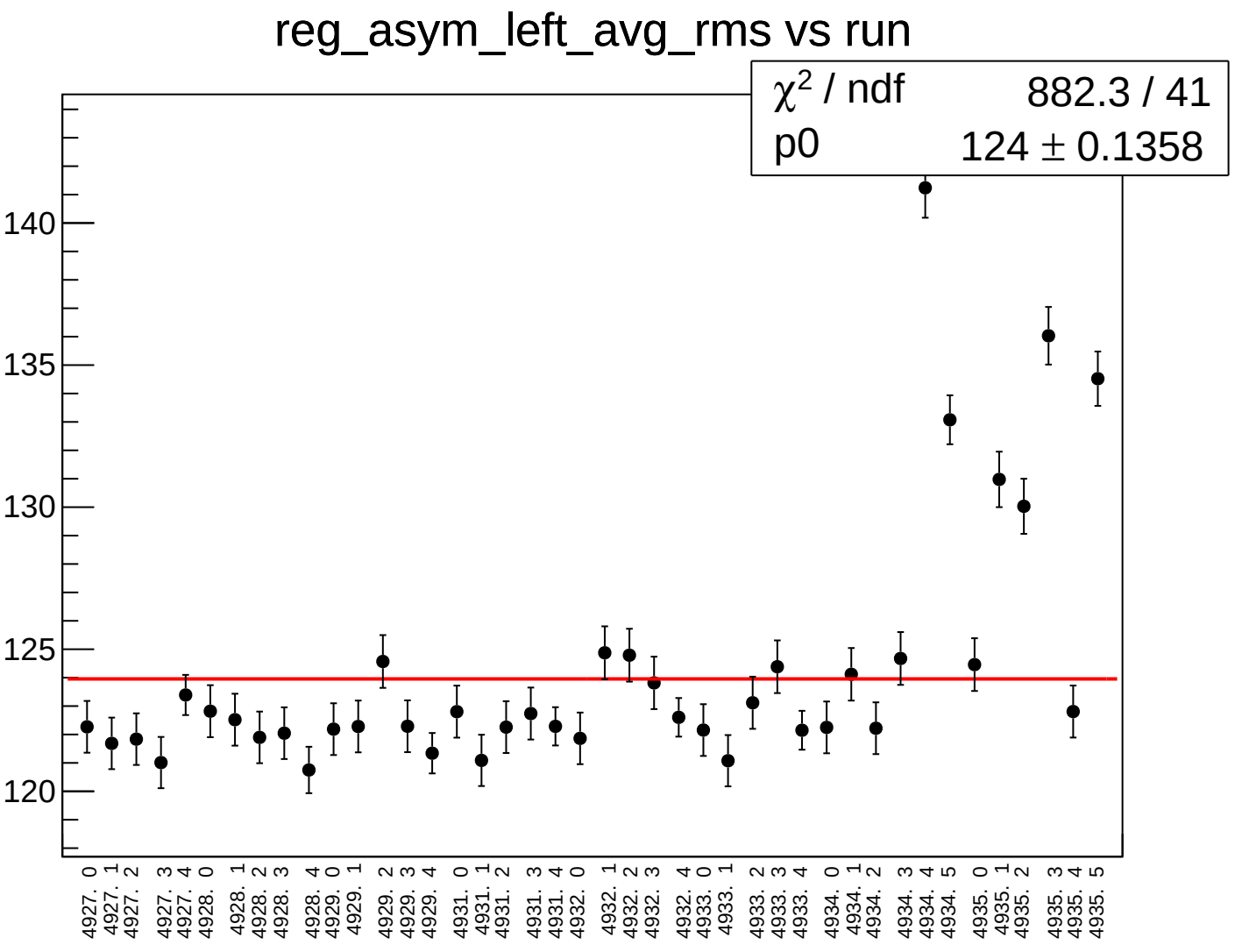

asym_dsr_mean vs run
χ² / ndf 31.62 / 41
p0 −609.1 ± 531.6
10000
5000
0
−5000
−10000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 55.44
Std Dev 21.48
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

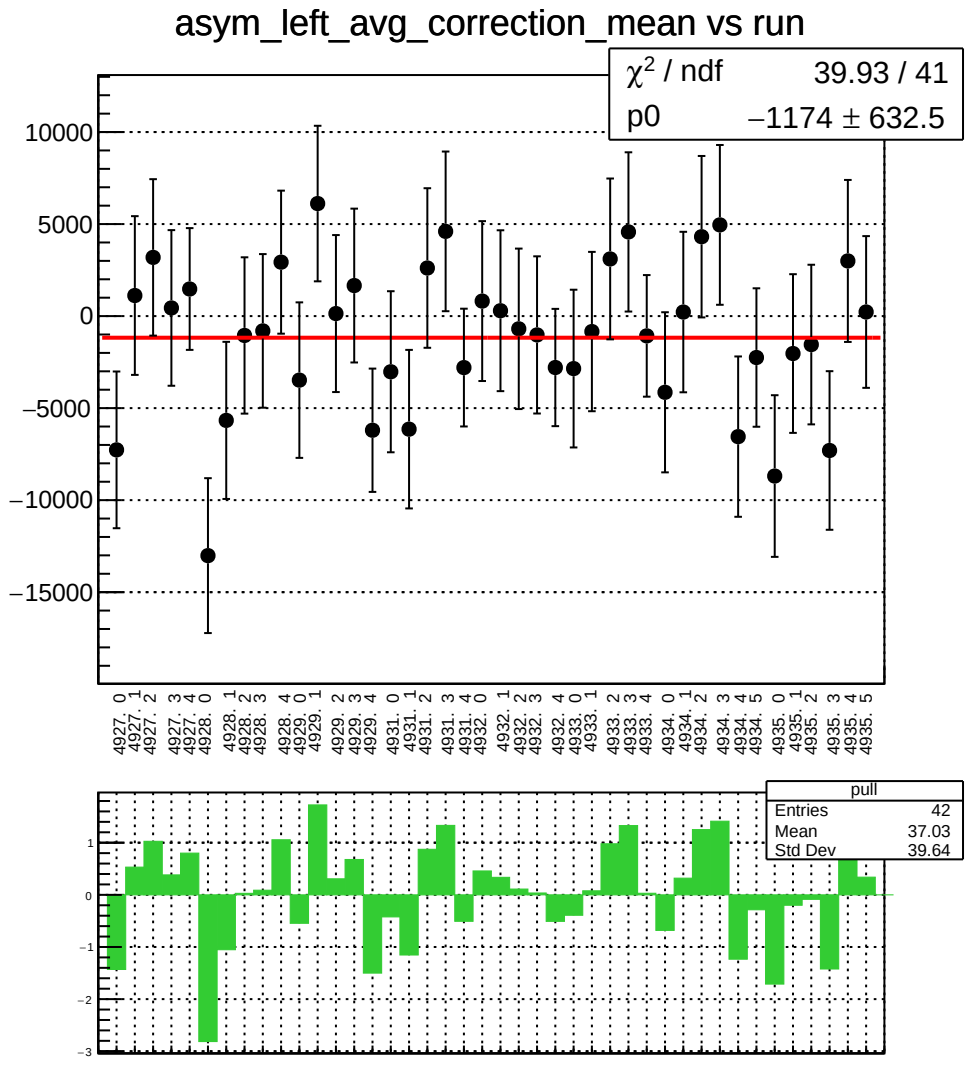

pull1D
Entries 42
Mean −0.004904
Std Dev 0.8677
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

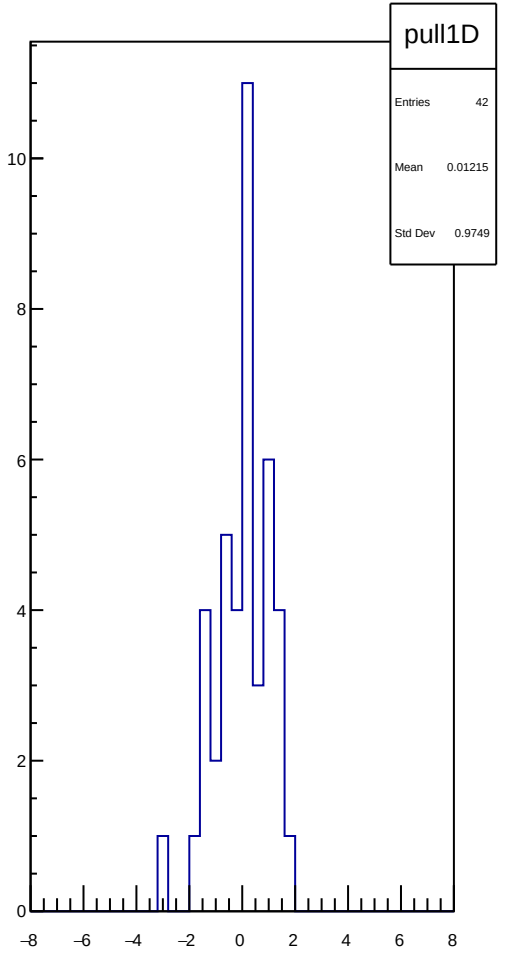

asym_dsr_rms vs run
χ² / ndf 103.2 / 41
p0 343.3 ± 0.3759
355
350
345
340
335
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

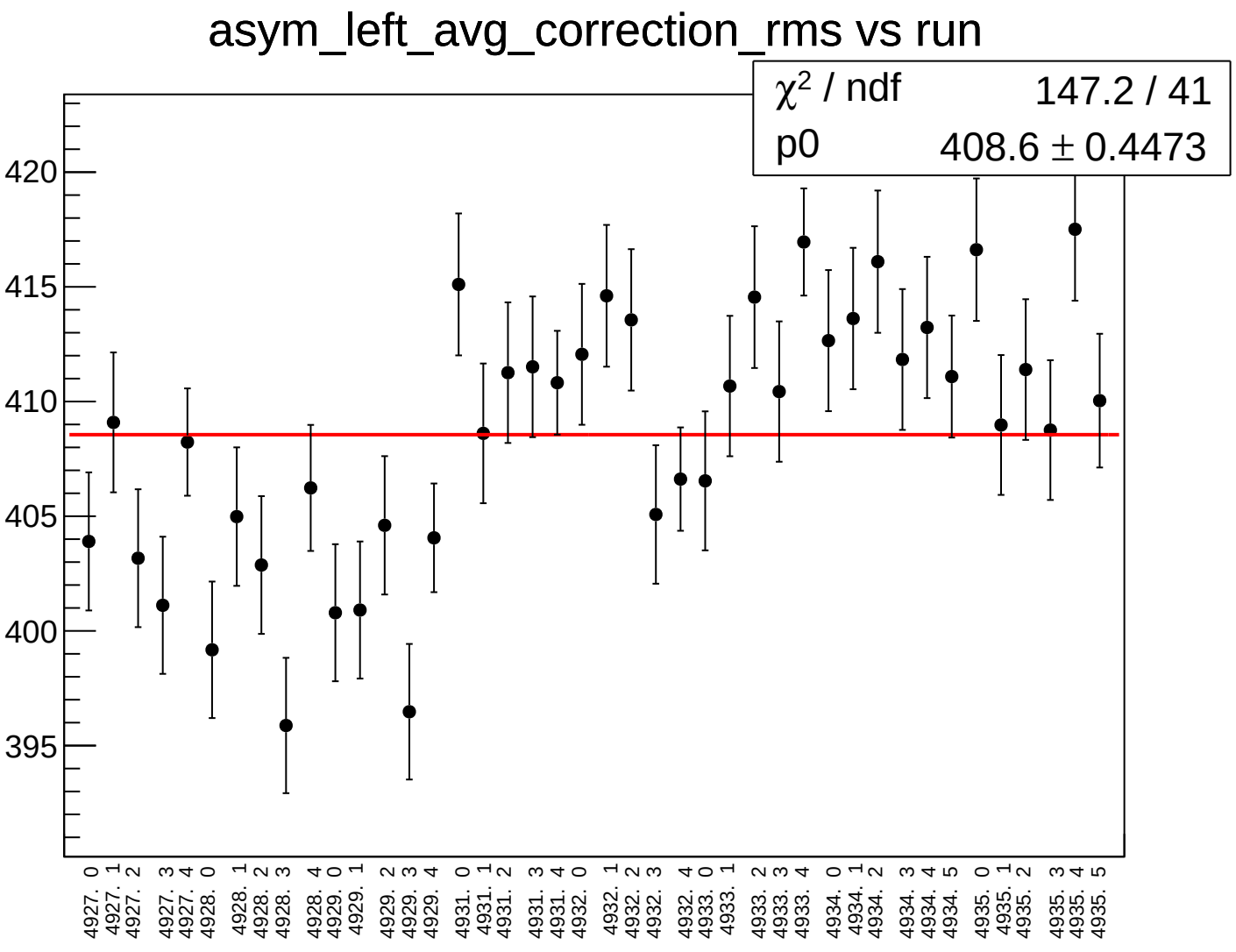

reg_asym_left_avg_mean vs run
χ² / ndf 35.78 / 41
p0 −93.88 ± 192
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 695.1
Std Dev 675.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

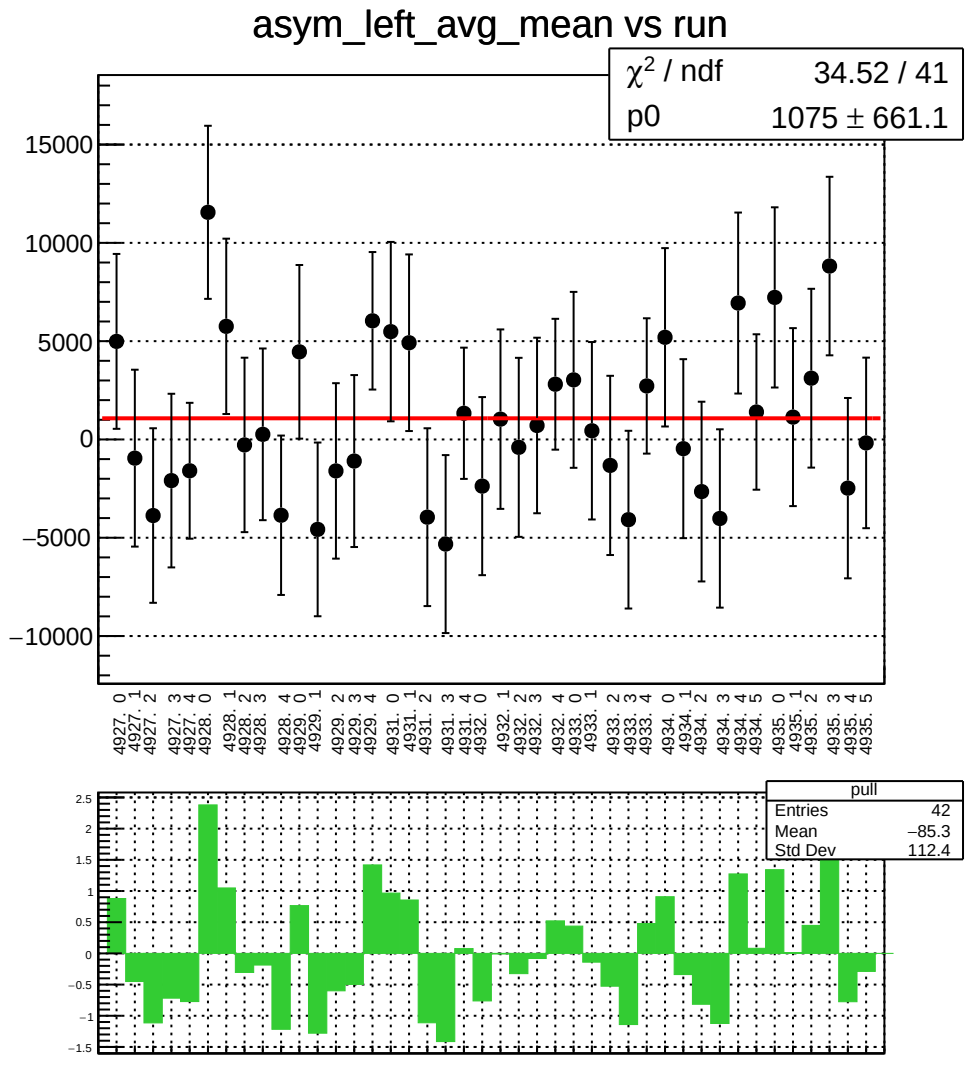

pull1D
Entries 42
Mean 0.005966
Std Dev 0.923
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

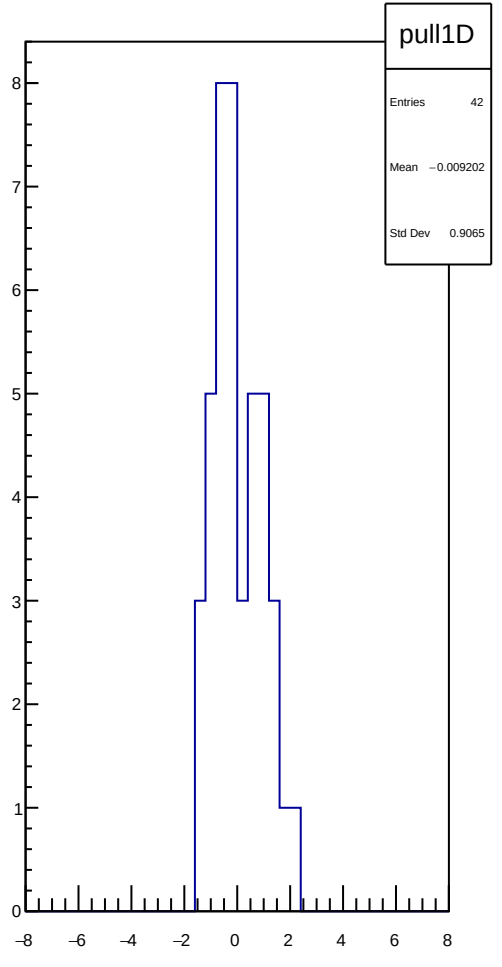

reg_asym_left_avg_rms vs run
χ² / ndf 882.3 / 41
p0 124 ± 0.1358
140
135
130
125
120
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

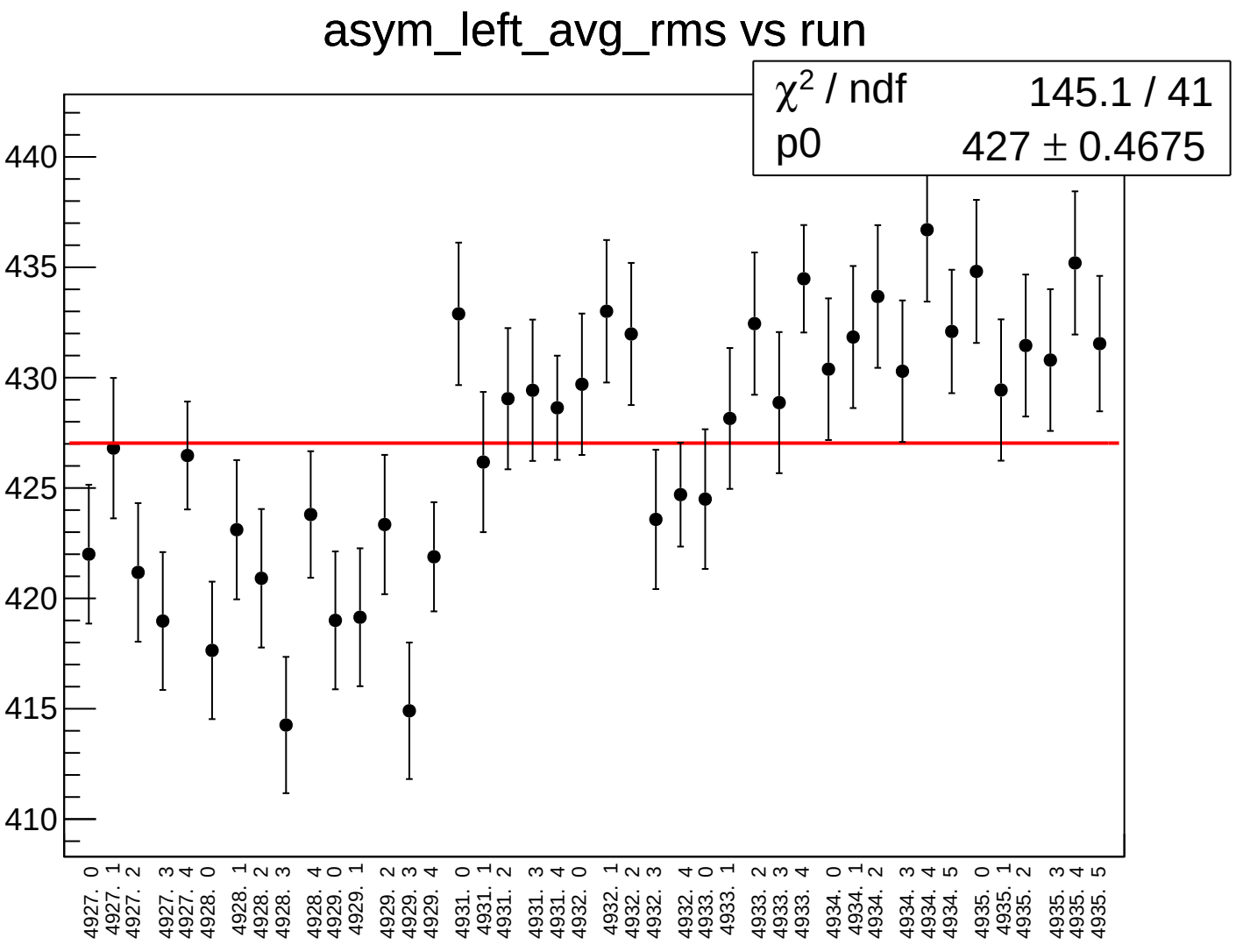

asym_left_avg_correction_mean vs run
χ² / ndf 39.93 / 41
p0 −1174 ± 632.5
10000
5000
0
−5000
−10000
−15000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 37.03
Std Dev 39.64
1
0
−1
−2
−3

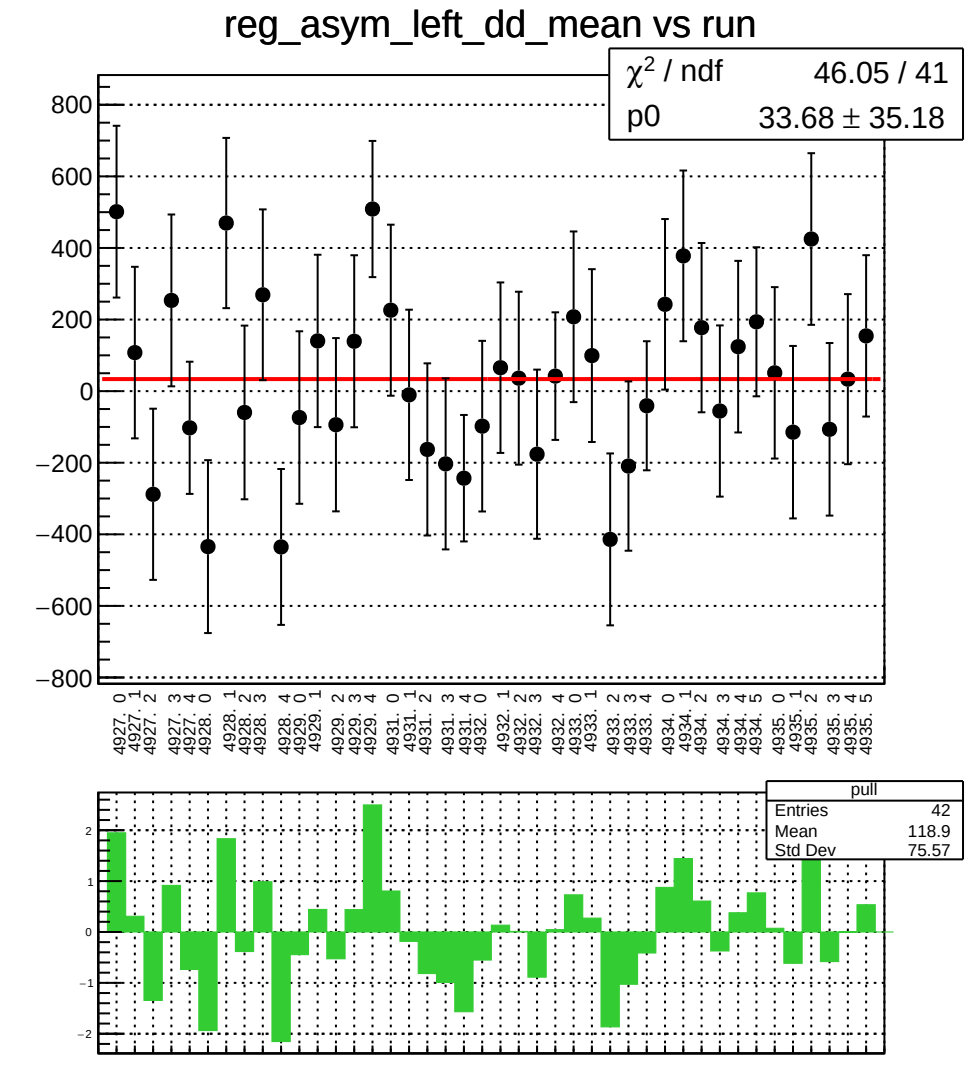

pull1D
Entries 42
Mean 0.01215
Std Dev 0.9749
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

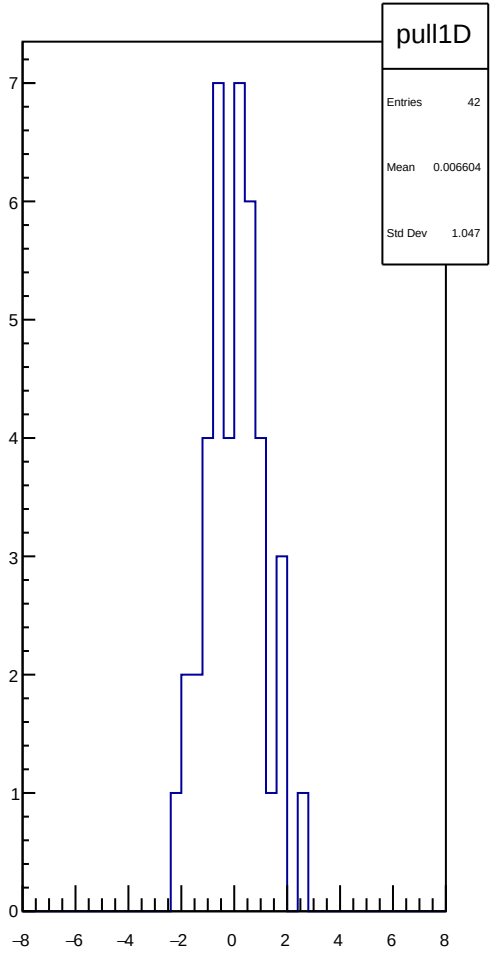

asym_left_avg_correction_rms vs run
χ² / ndf 147.2 / 41
p0 408.6 ± 0.4473
420
415
410
405
400
395
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

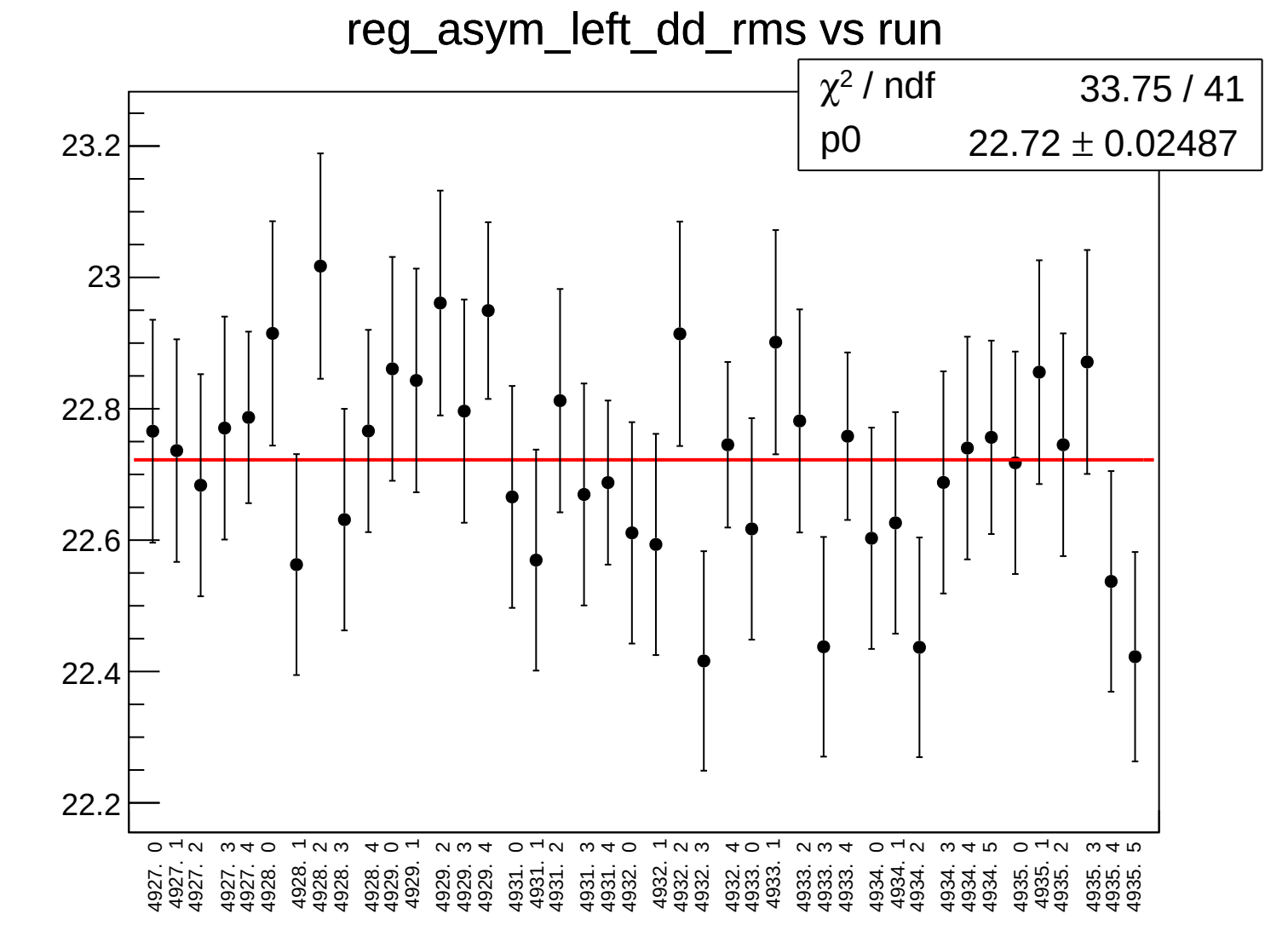

asym_left_avg_mean vs run
χ² / ndf 34.52 / 41
p0 1075 ± 661.1
15000
10000
5000
0
−5000
−10000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −85.3
Std Dev 112.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

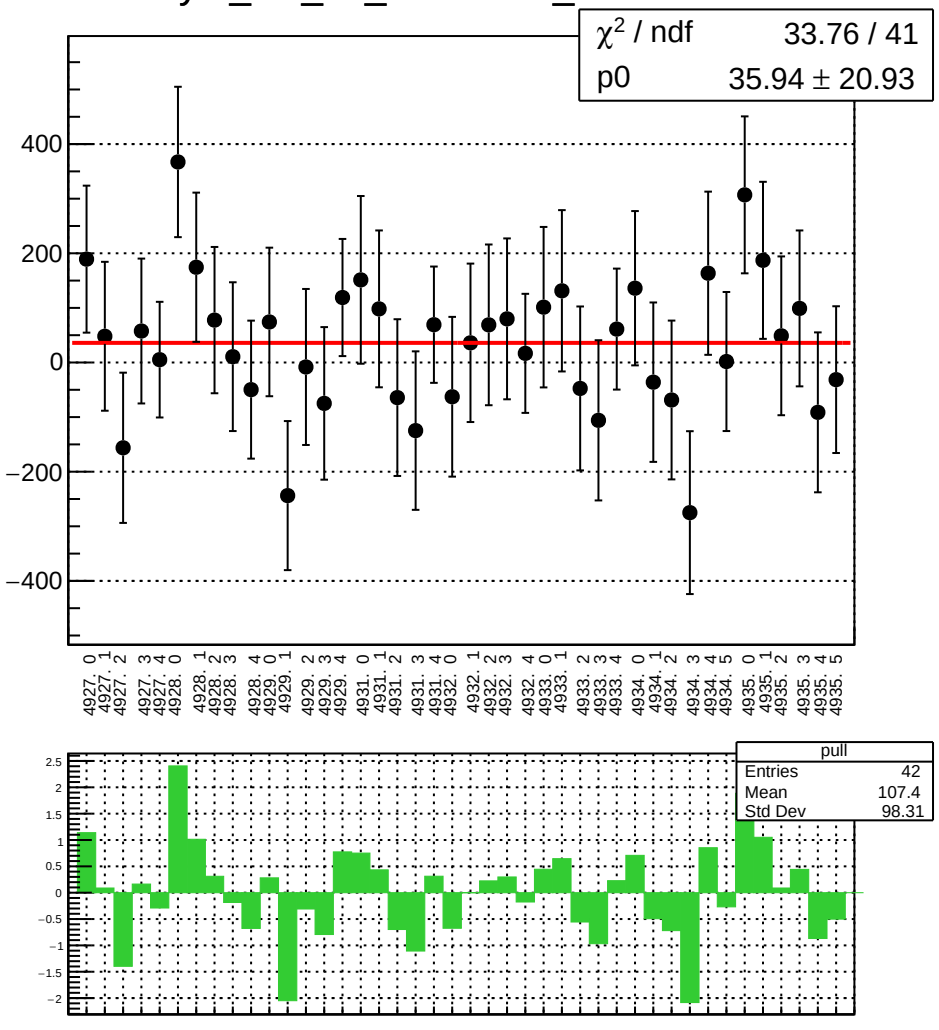

pull1D
Entries 42
Mean −0.009202
Std Dev 0.9065
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

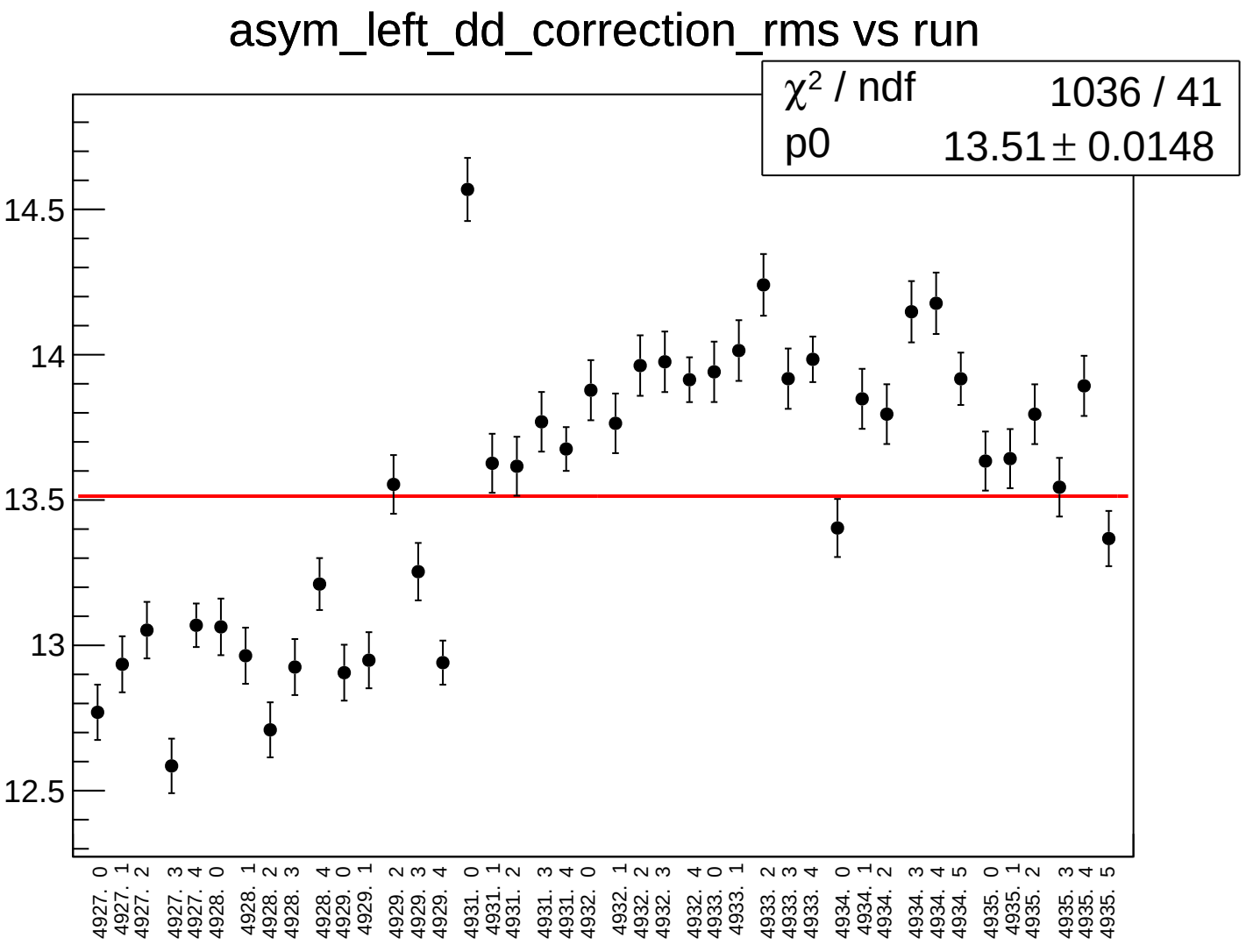

asym_left_avg_rms vs run
χ² / ndf 145.1 / 41
p0 427 ± 0.4675
440
435
430
425
420
415
410
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

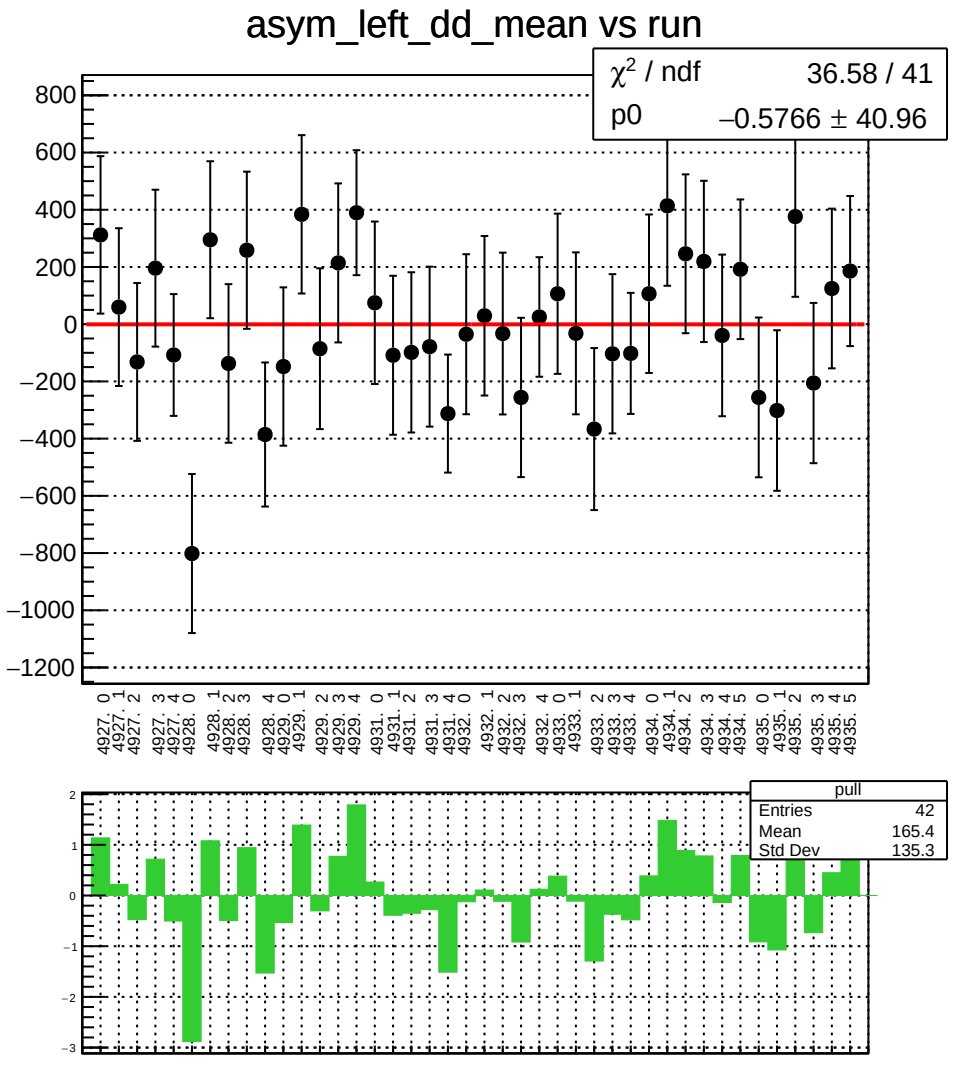

reg_asym_left_dd_mean vs run
χ² / ndf 46.05 / 41
p0 33.68 ± 35.18
800
600
400
200
0
−200
−400
−600
−800
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 118.9
Std Dev 75.57
2
1
0
−1
−2

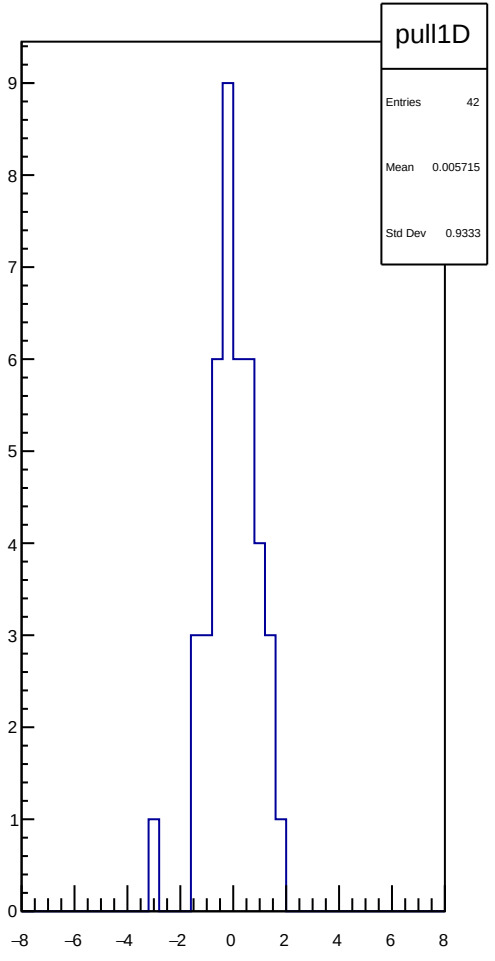

pull1D
Entries 42
Mean 0.006604
Std Dev 1.047
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

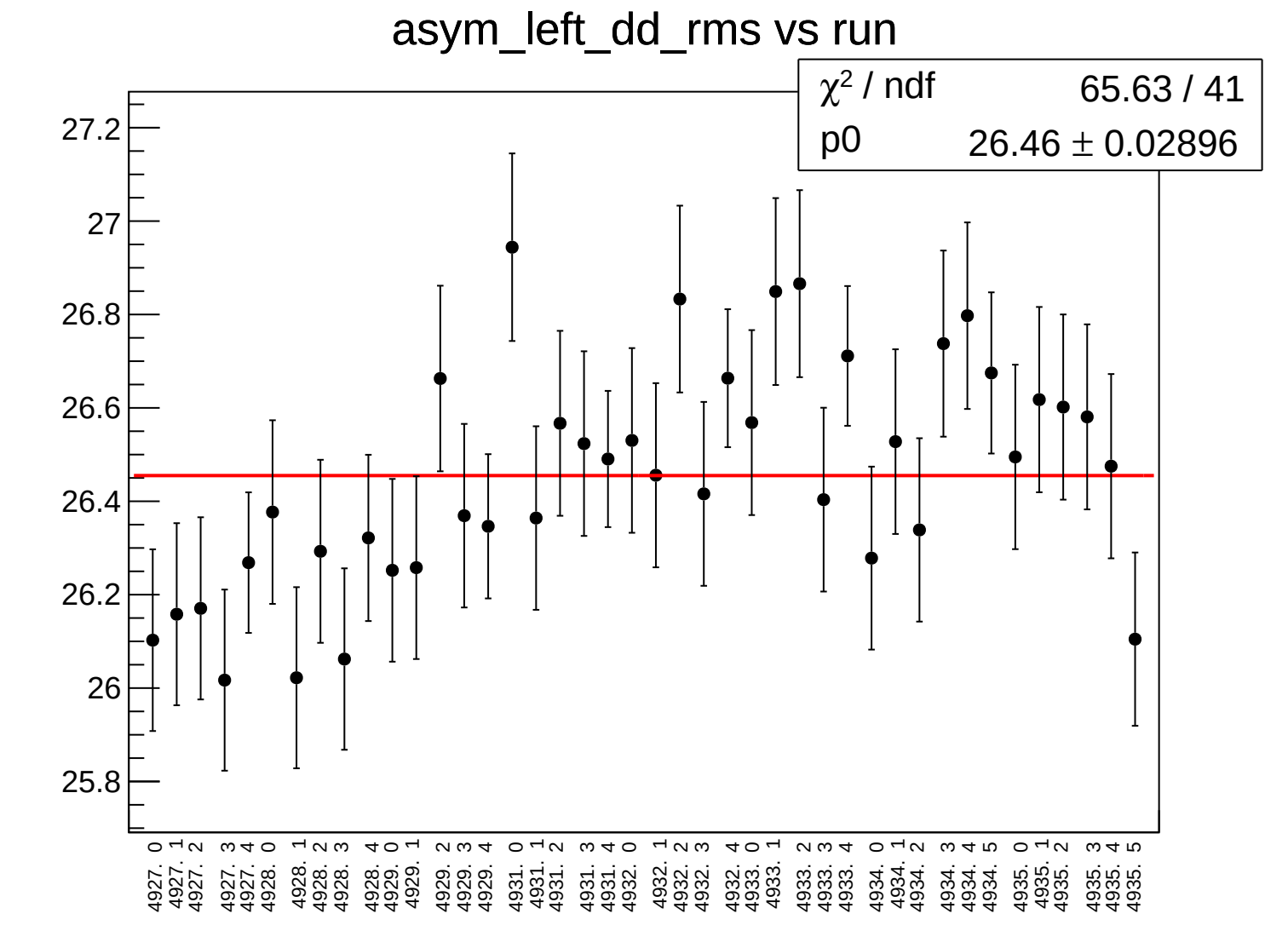

reg_asym_left_dd_rms vs run
χ² / ndf 33.75 / 41
p0 22.72 ± 0.02487
23.2
23
22.8
22.6
22.4
22.2
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

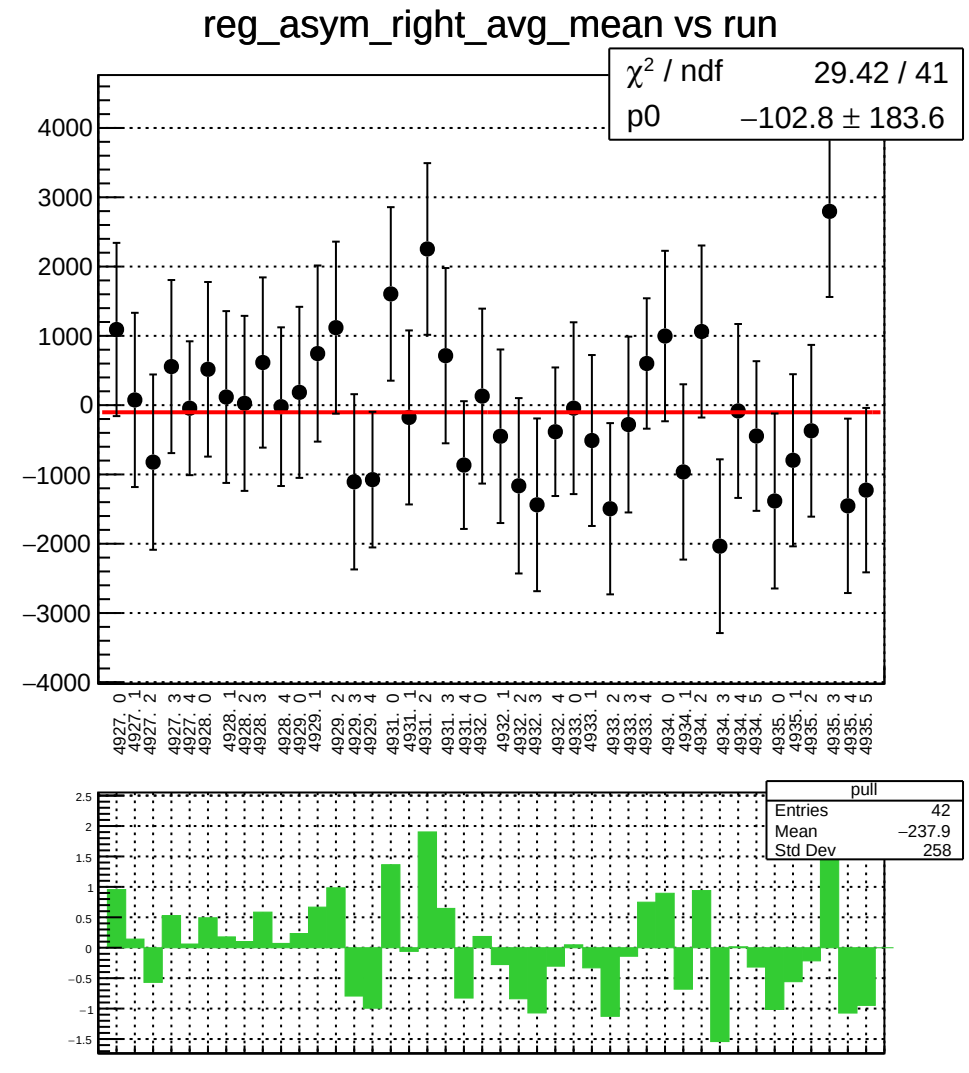

asym_left_dd_correction_mean vs run
χ² / ndf 33.76 / 41
p0 35.94 ± 20.93
400
200
0
−200
−400
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 107.4
Std Dev 98.31
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 42
Mean −0.006424
Std Dev 0.8965
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

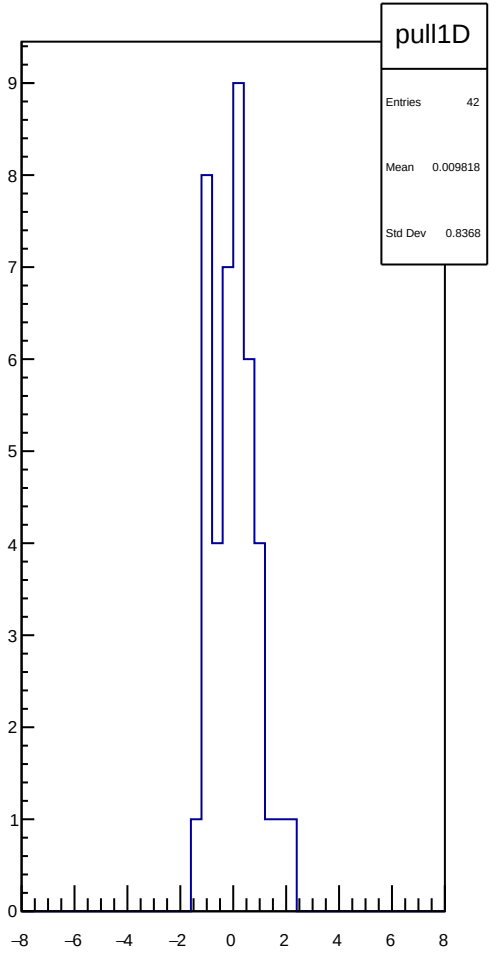

asym_left_dd_correction_rms vs run
χ² / ndf 1036 / 41
p0 13.51 ± 0.0148
14.5
14
13.5
13
12.5
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

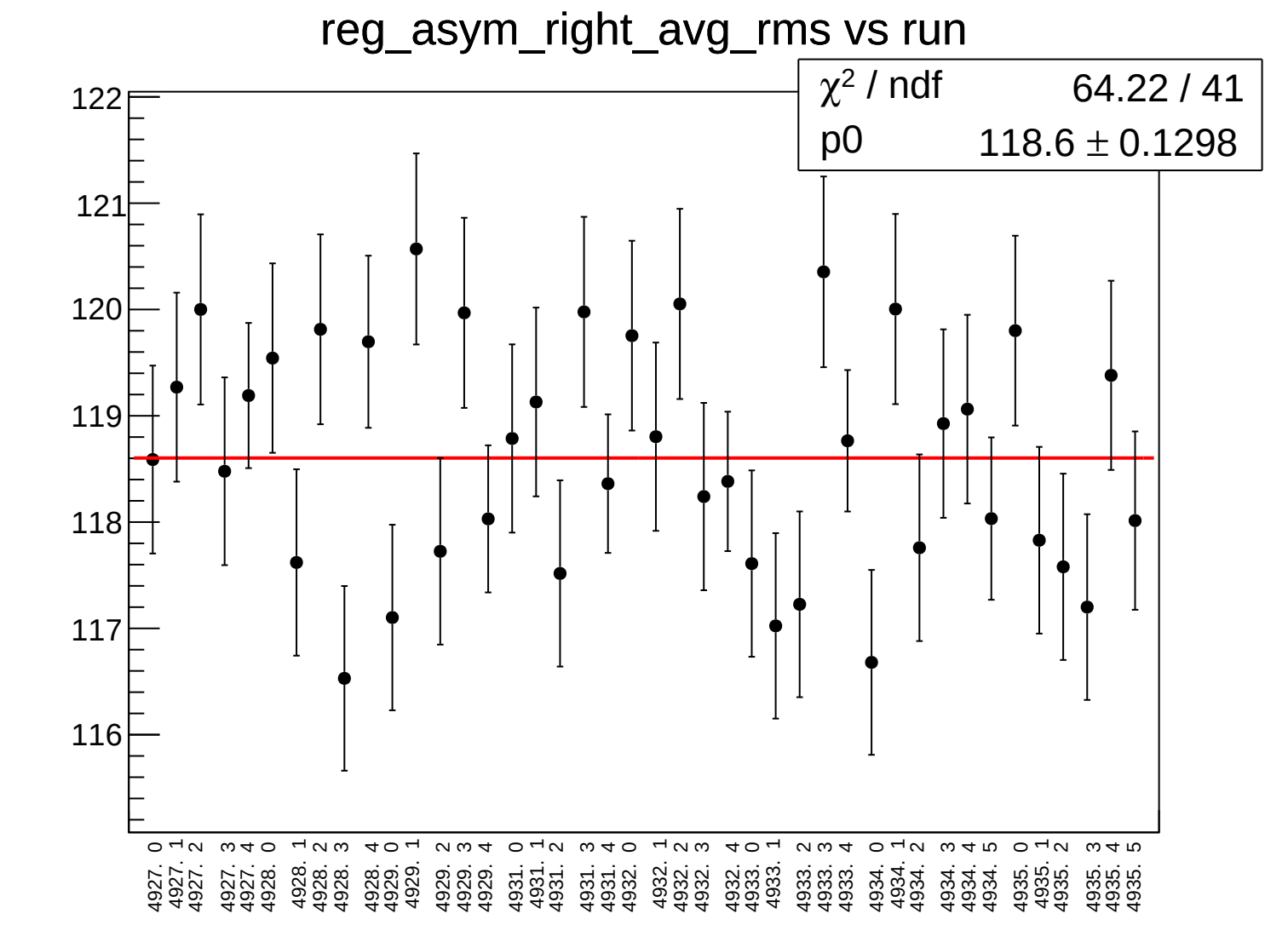

asym_left_dd_mean vs run
χ² / ndf 36.58 / 41
p0 −0.5766 ± 40.96
pull
Entries 42
Mean 165.4
Std Dev 135.3

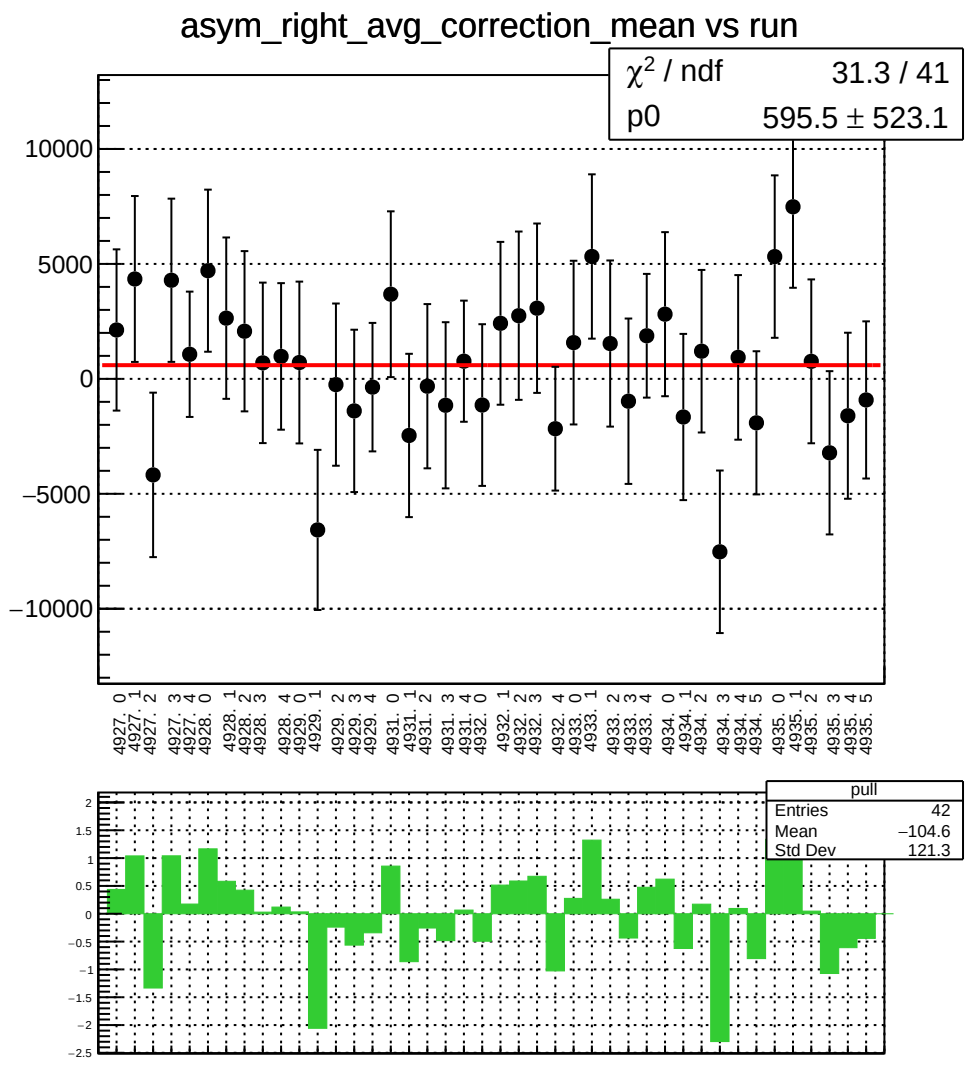

pull1D
Entries 42
Mean 0.005715
Std Dev 0.9333

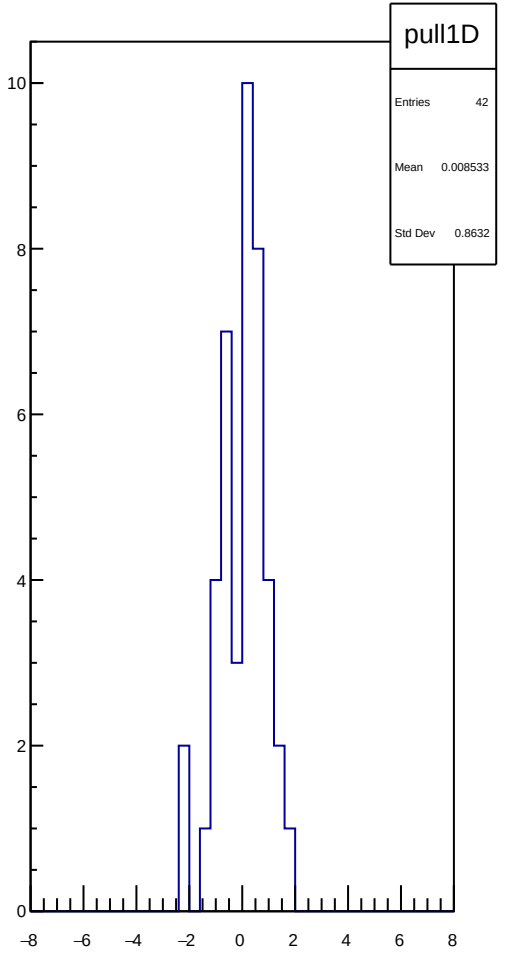

asym_left_dd_rms vs run
χ² / ndf 65.63 / 41
p0 26.46 ± 0.02896
27.2
27
26.8
26.6
26.4
26.2
26
25.8
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

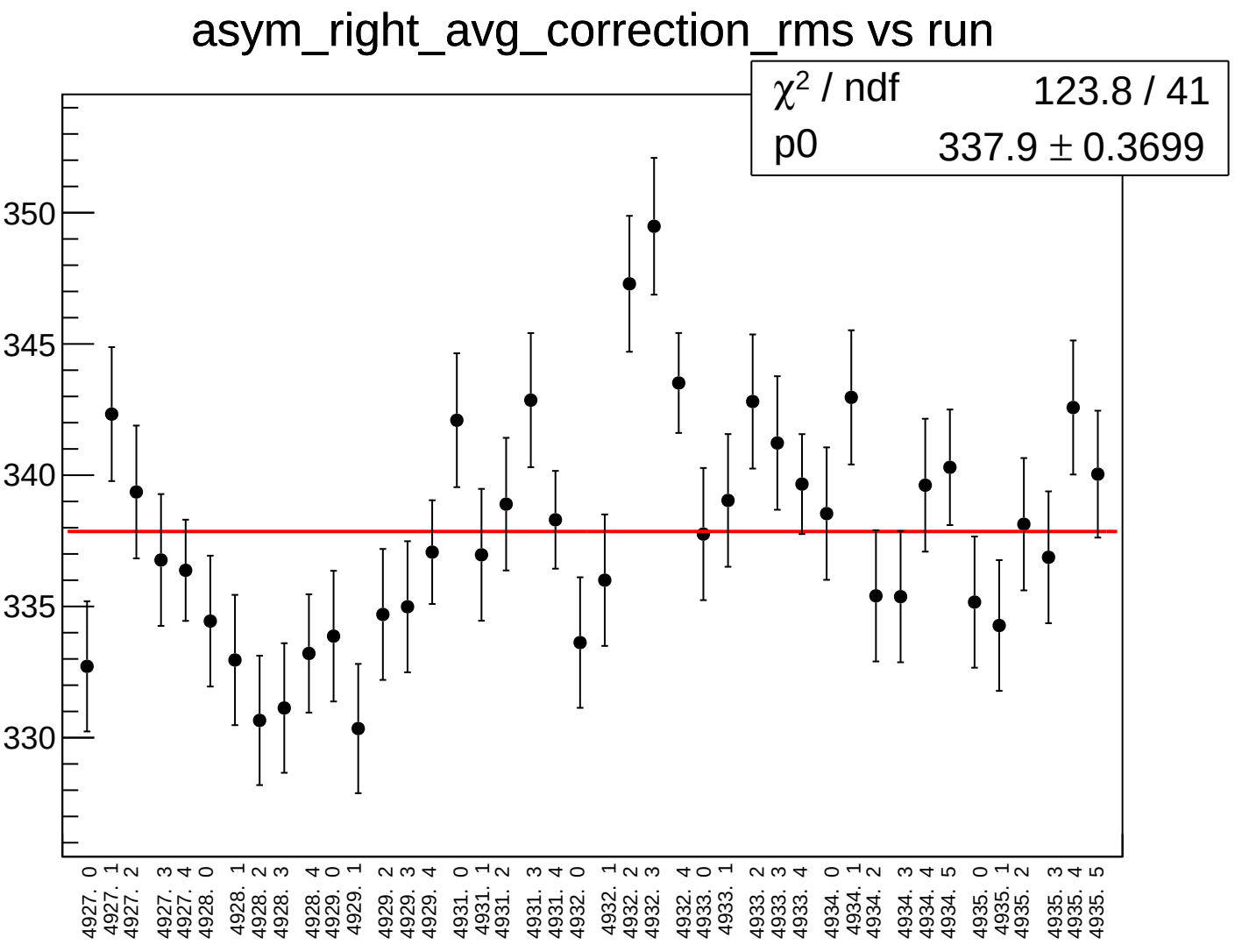

reg_asym_right_avg_mean vs run
χ² / ndf 29.42 / 41
p0 −102.8 ± 183.6
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −237.9
Std Dev 258
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

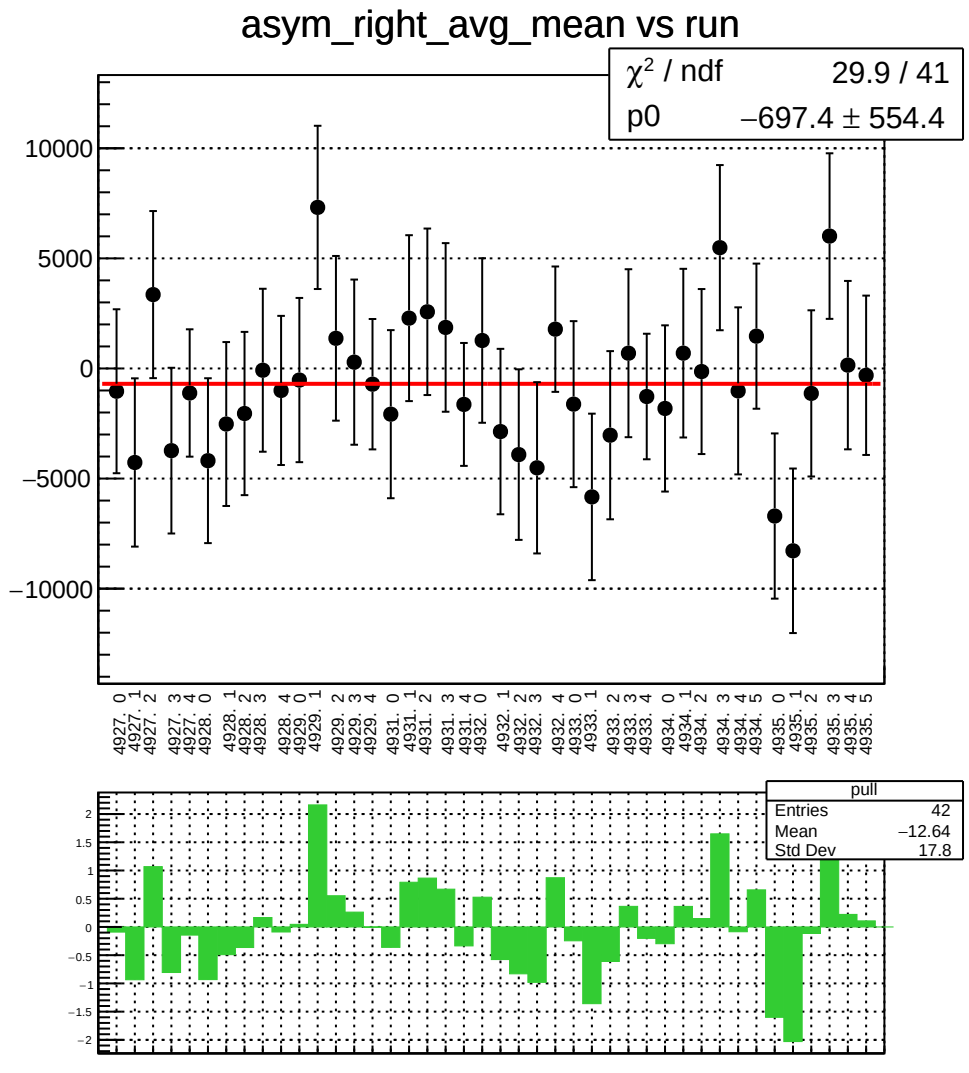

pull1D
Entries 42
Mean 0.009818
Std Dev 0.8368
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

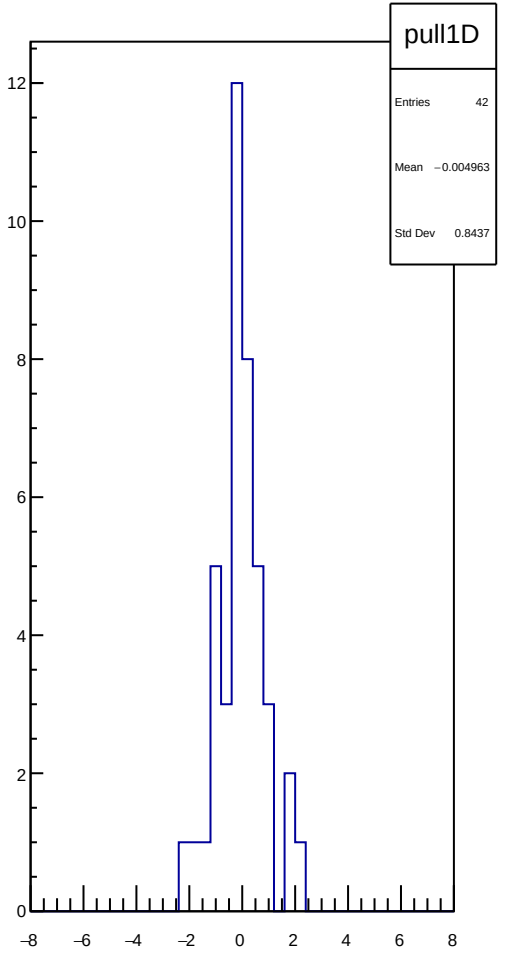

reg_asym_right_avg_rms vs run
χ² / ndf 64.22 / 41
p0 118.6 ± 0.1298
122
121
120
119
118
117
116
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

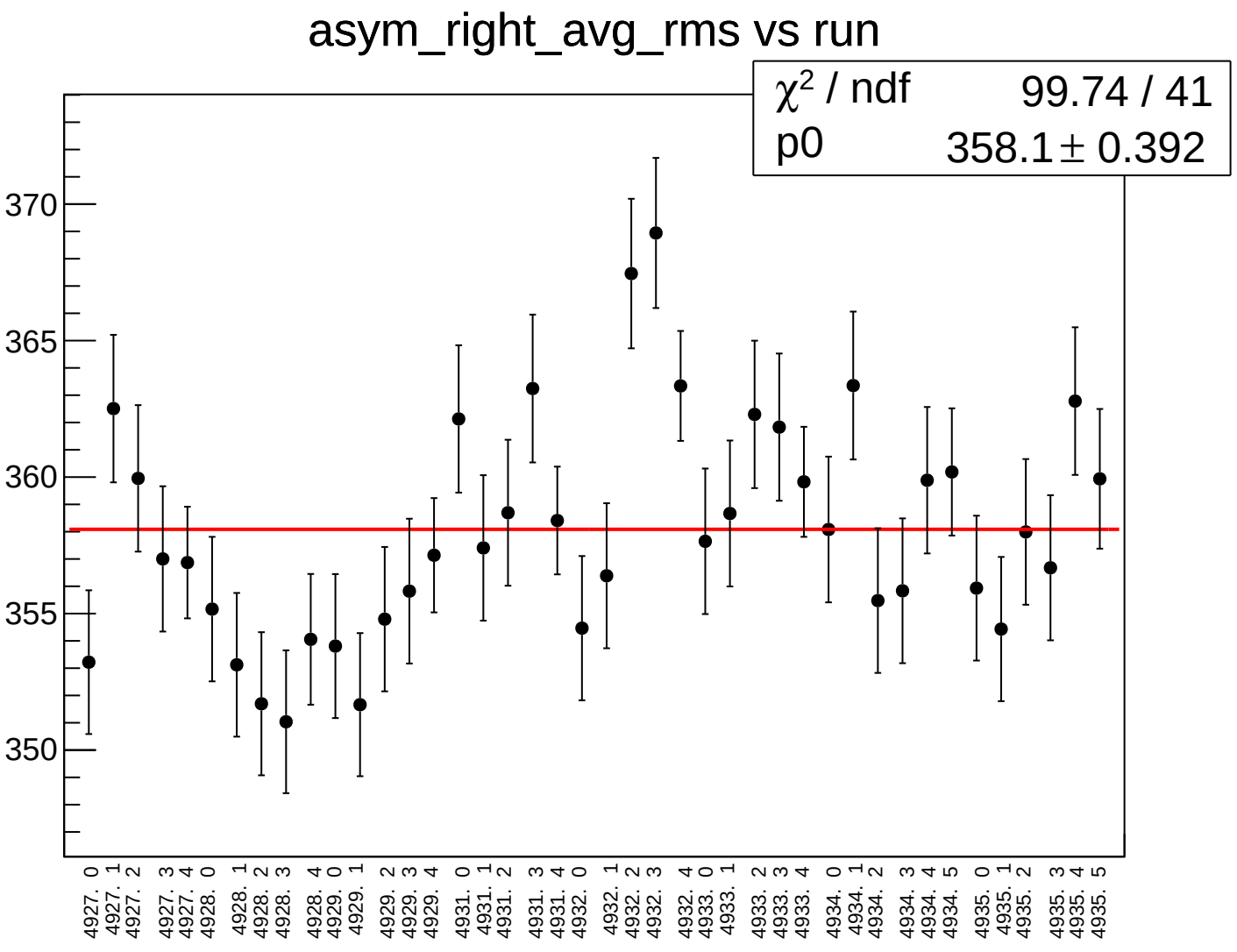

asym_right_avg_correction_mean vs run
χ² / ndf 31.3 / 41
p0 595.5 ± 523.1
10000
5000
0
−5000
−10000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −104.6
Std Dev 121.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

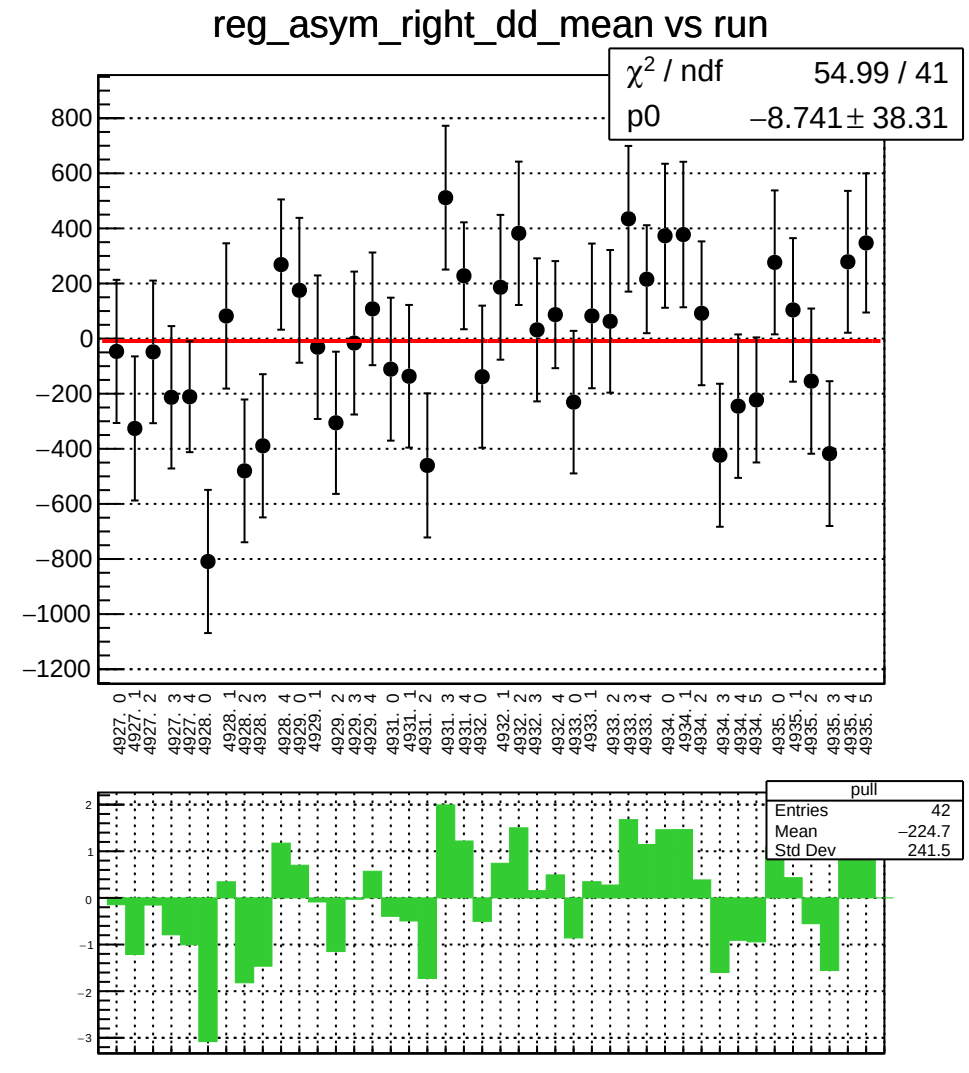

pull1D
Entries 42
Mean 0.008533
Std Dev 0.8632
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

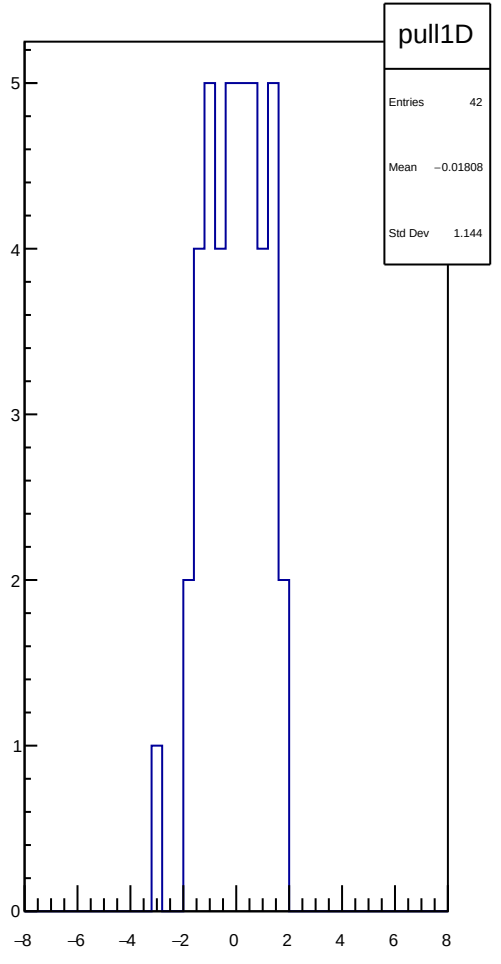

asym_right_avg_correction_rms vs run
χ² / ndf 123.8 / 41
p0 337.9 ± 0.3699
350
345
340
335
330
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

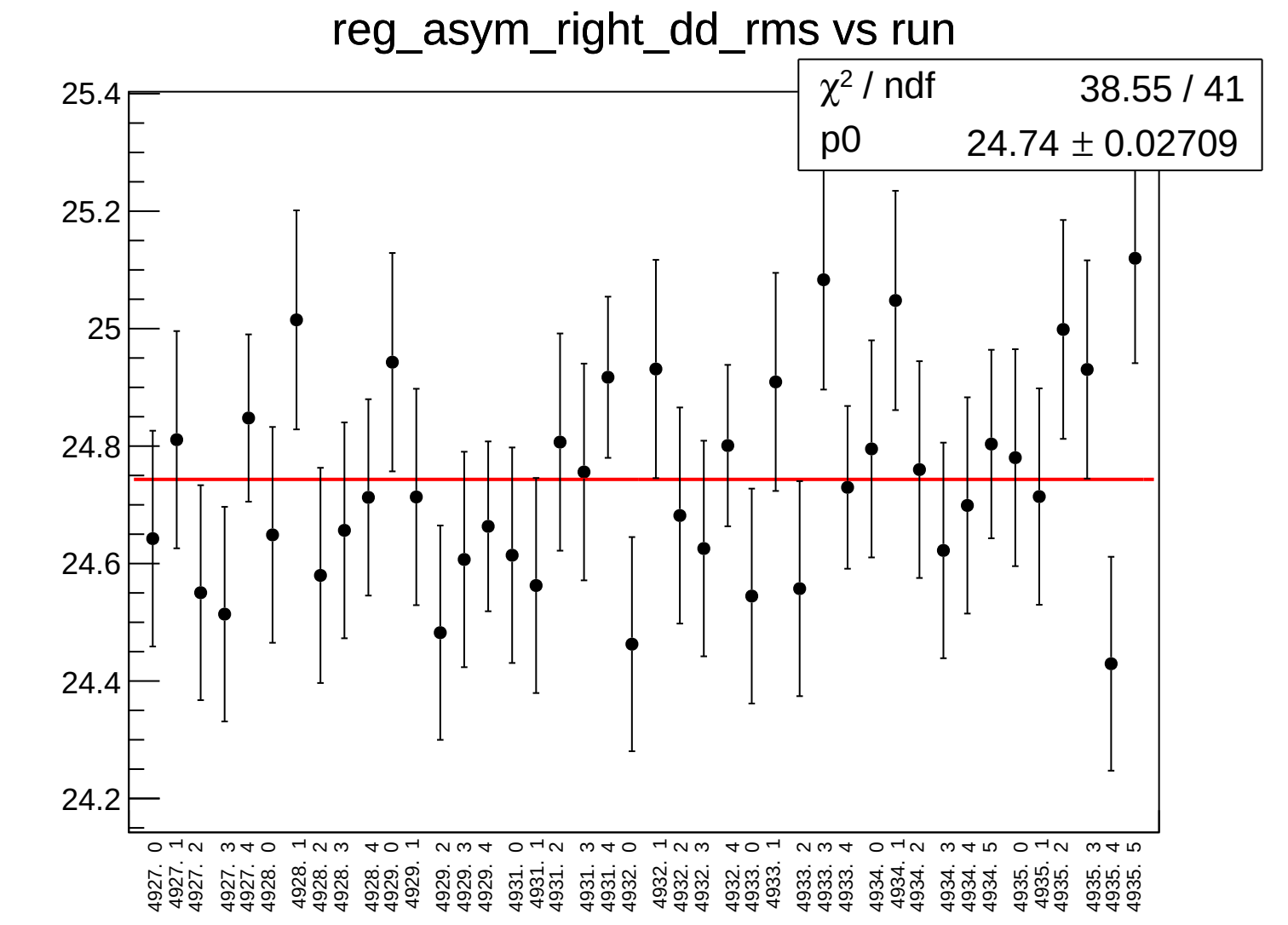

asym_right_avg_mean vs run
χ² / ndf 29.9 / 41
p0 −697.4 ± 554.4
10000
5000
0
−5000
−10000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −12.64
Std Dev 17.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

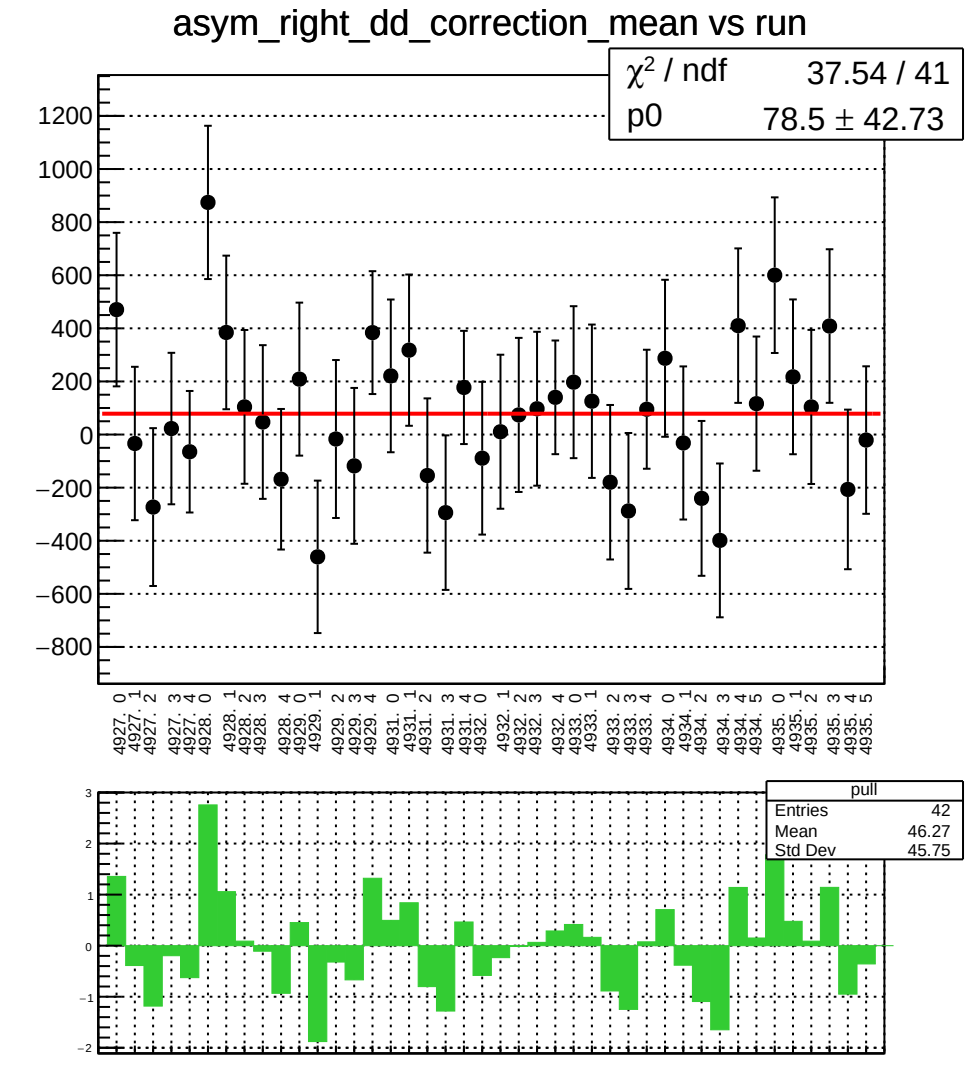

pull1D
Entries 42
Mean −0.004963
Std Dev 0.8437
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

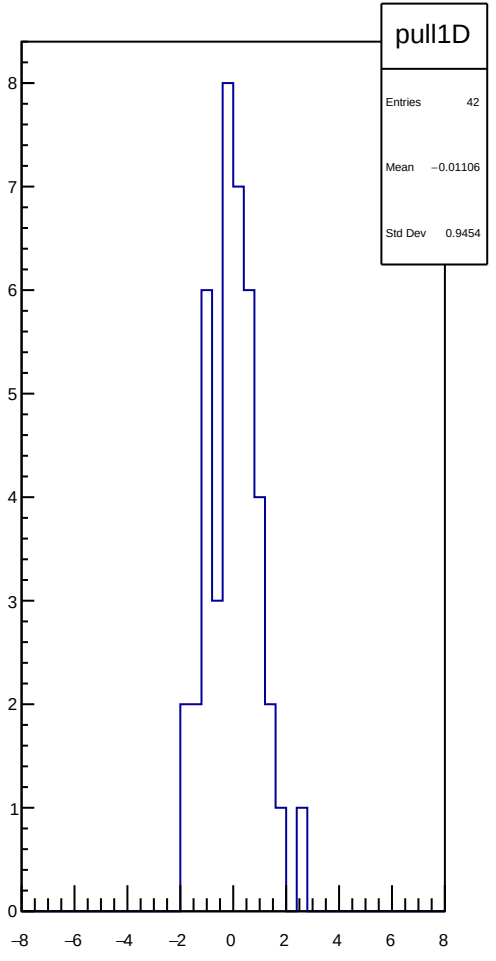

asym_right_avg_rms vs run
χ^2 / ndf 99.74 / 41
p0 358.1 ± 0.392
370
365
360
355
350
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

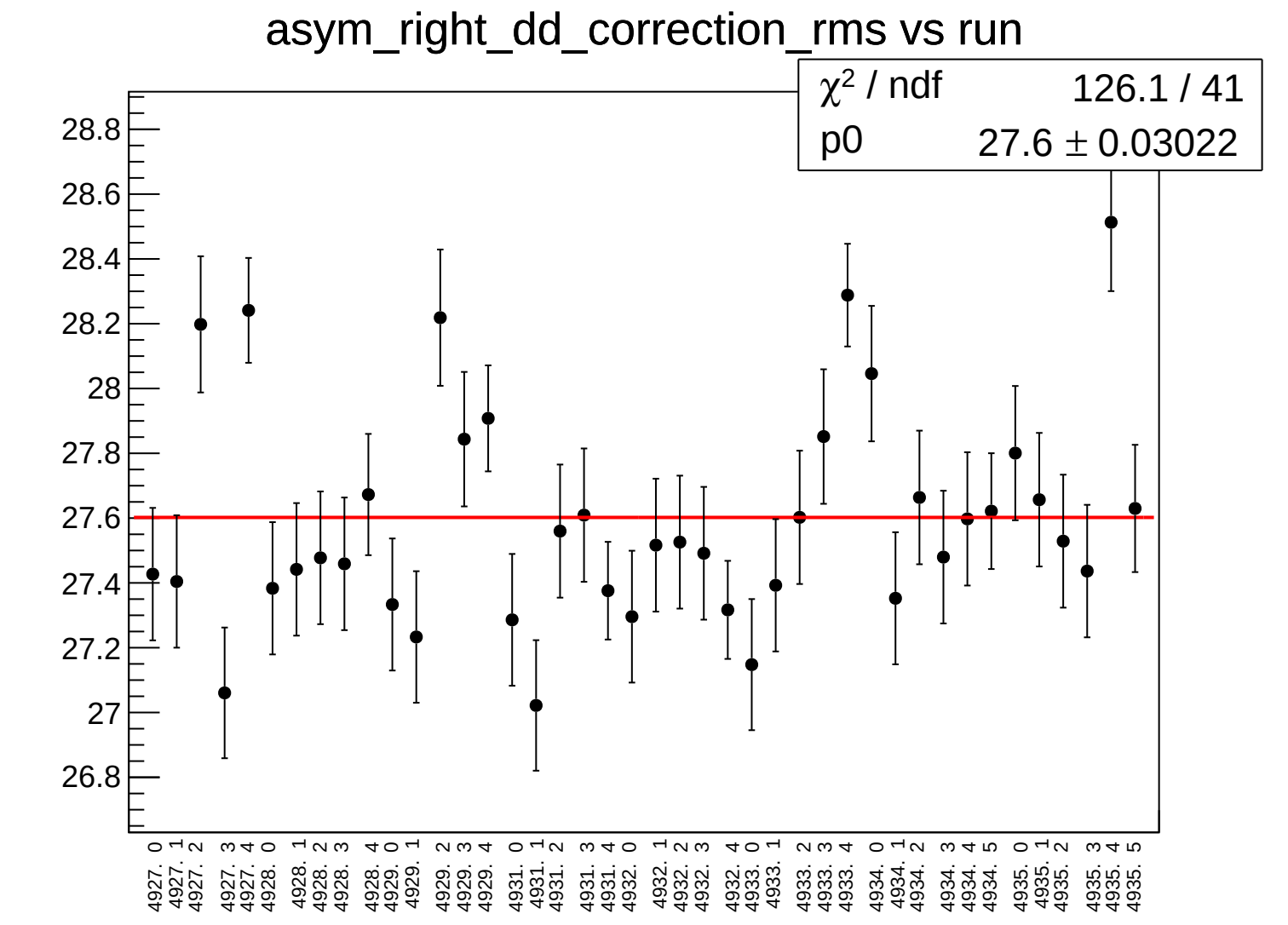

reg_asym_right_dd_mean vs run
χ² / ndf 54.99 / 41
p0 −8.741 ± 38.31
pull
Entries 42
Mean −224.7
Std Dev 241.5

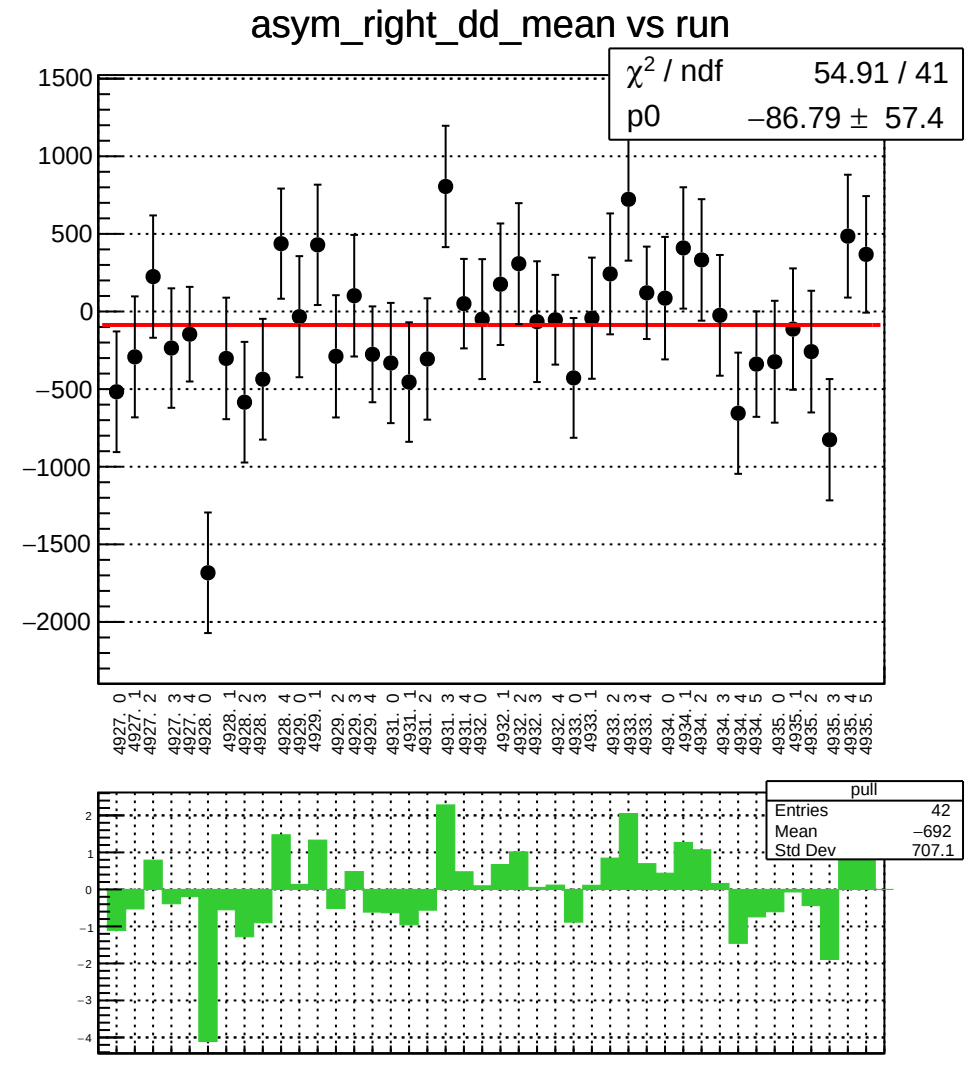

pull1D
Entries 42
Mean −0.01808
Std Dev 1.144

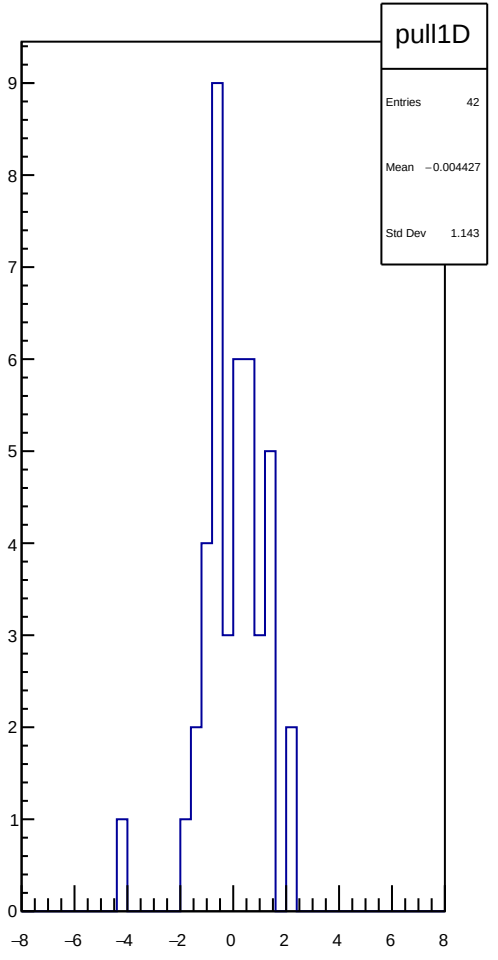

reg_asym_right_dd_rms vs run
χ² / ndf 38.55 / 41
p0 24.74 ± 0.02709
25.4
25.2
25
24.8
24.6
24.4
24.2
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

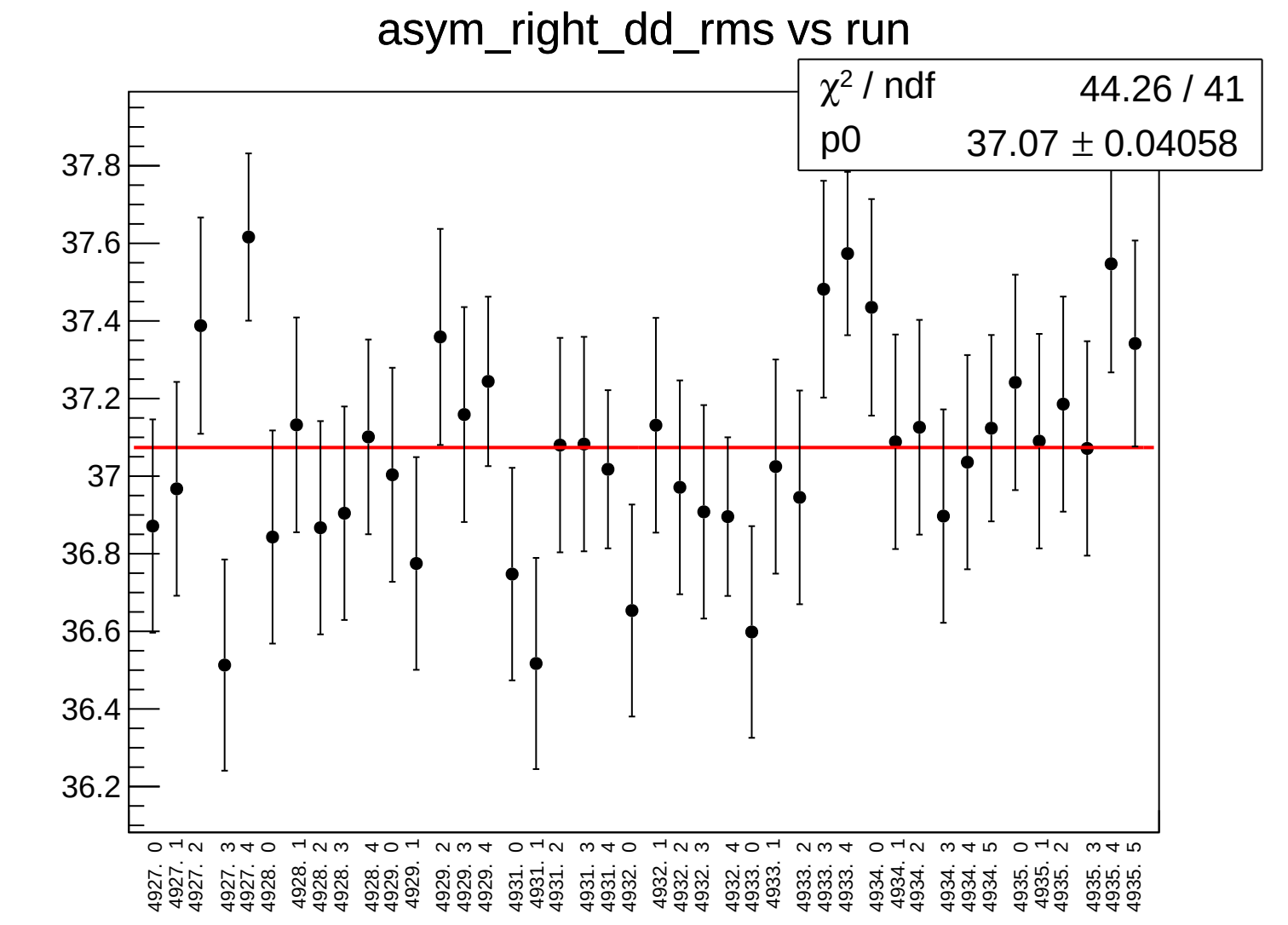

asym_right_dd_correction_mean vs run
χ² / ndf 37.54 / 41
p0 78.5 ± 42.73
pull
Entries 42
Mean 46.27
Std Dev 45.75

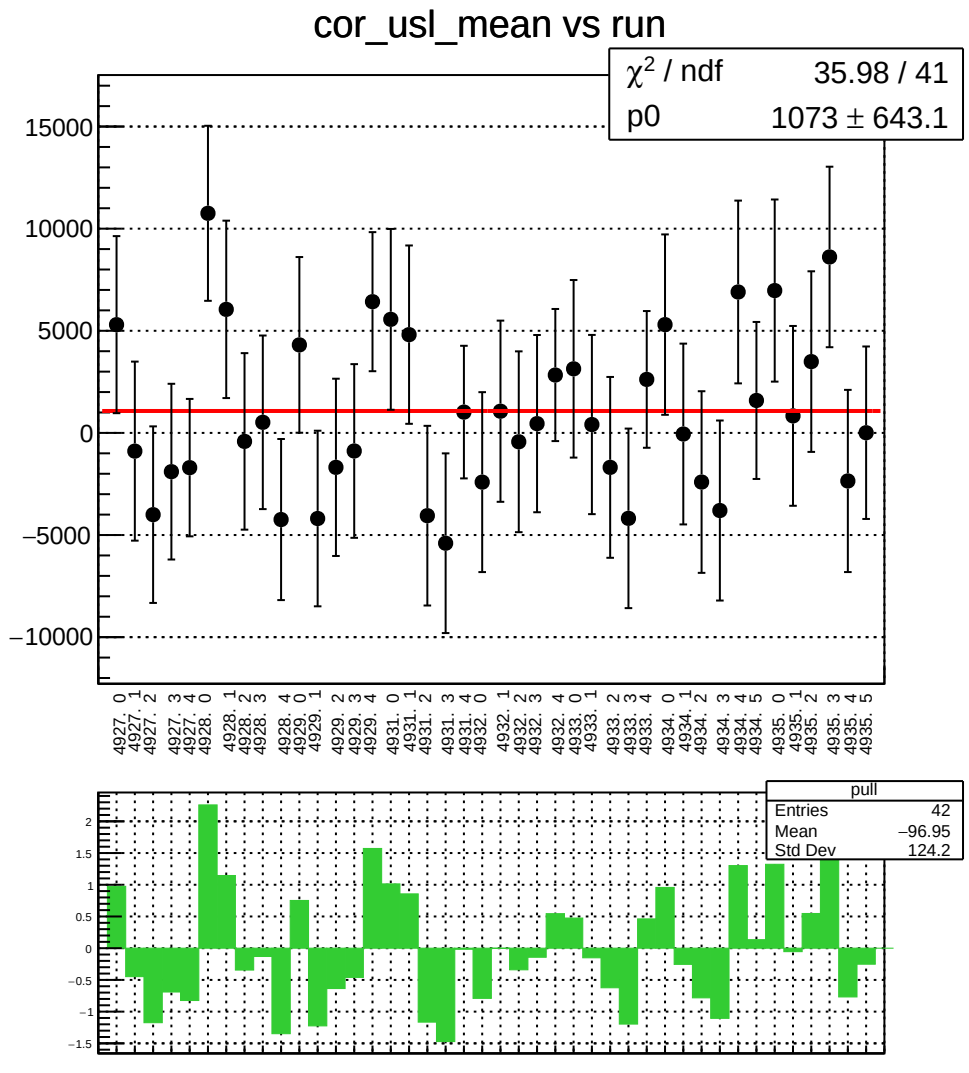

pull1D
Entries 42
Mean −0.01106
Std Dev 0.9454

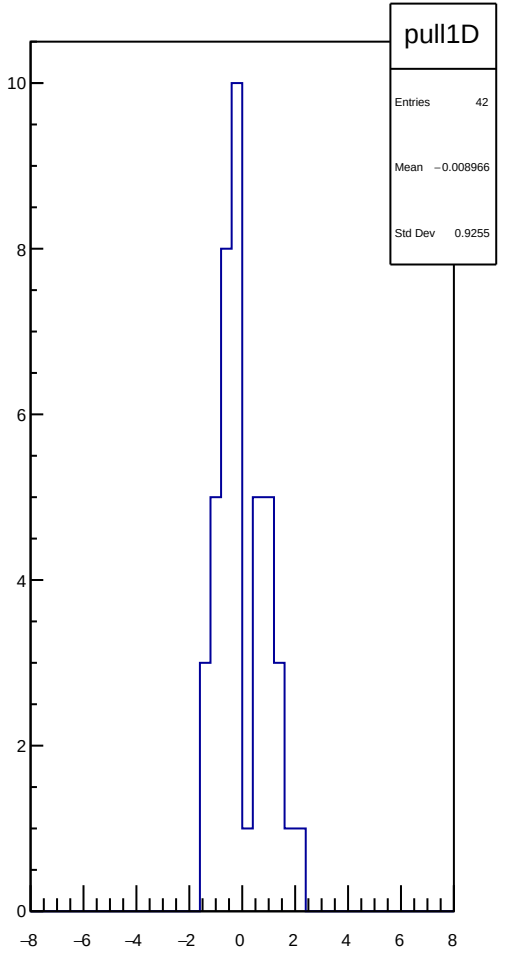

asym_right_dd_correction_rms vs run
χ² / ndf 126.1 / 41
p0 27.6 ± 0.03022
28.8
28.6
28.4
28.2
28
27.8
27.6
27.4
27.2
27
26.8
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

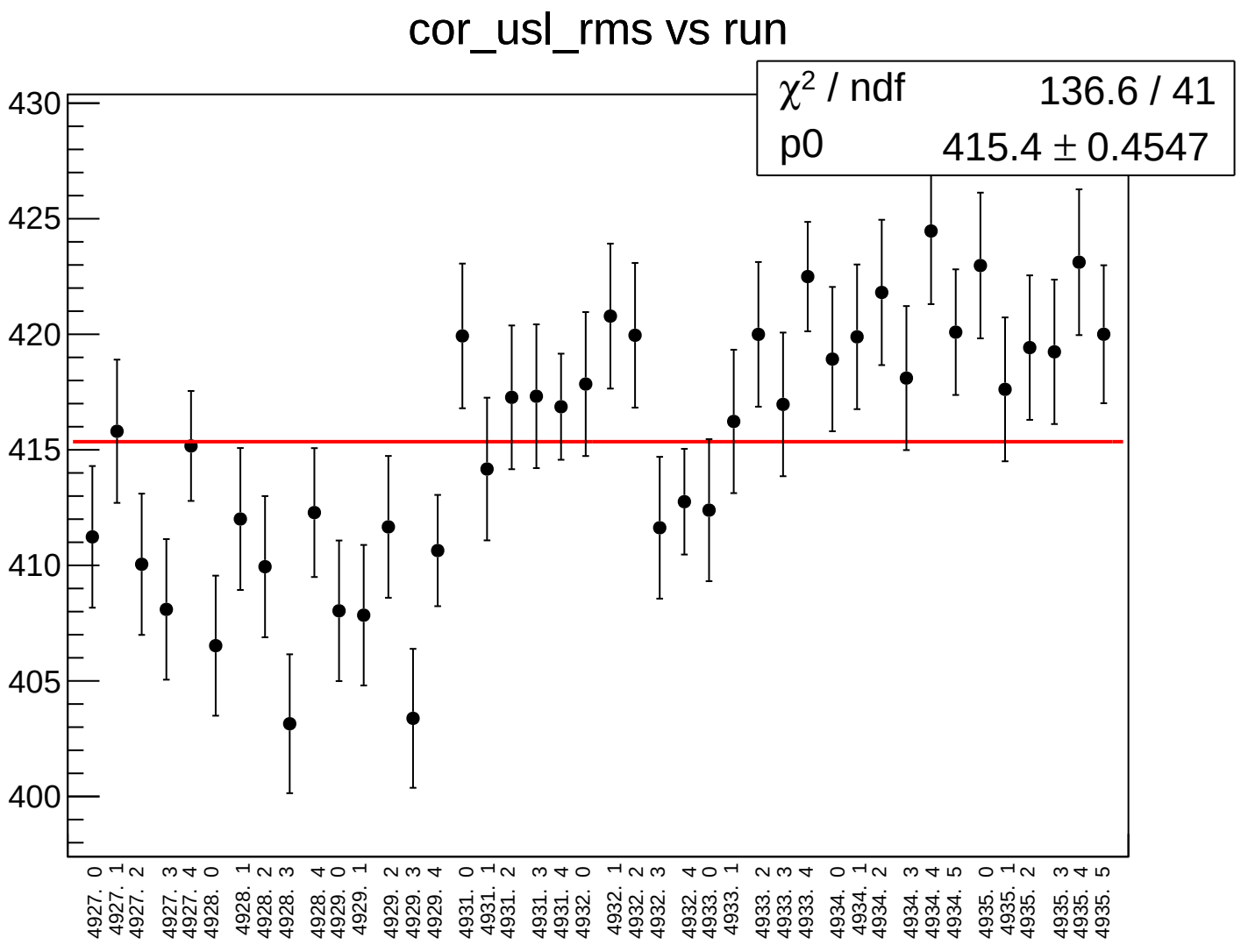

asym_right_dd_mean vs run
χ² / ndf 54.91 / 41
p0 −86.79 ± 57.4
1500
1000
500
0
−500
−1000
−1500
−2000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −692
Std Dev 707.1
2
1
0
−1
−2
−3
−4

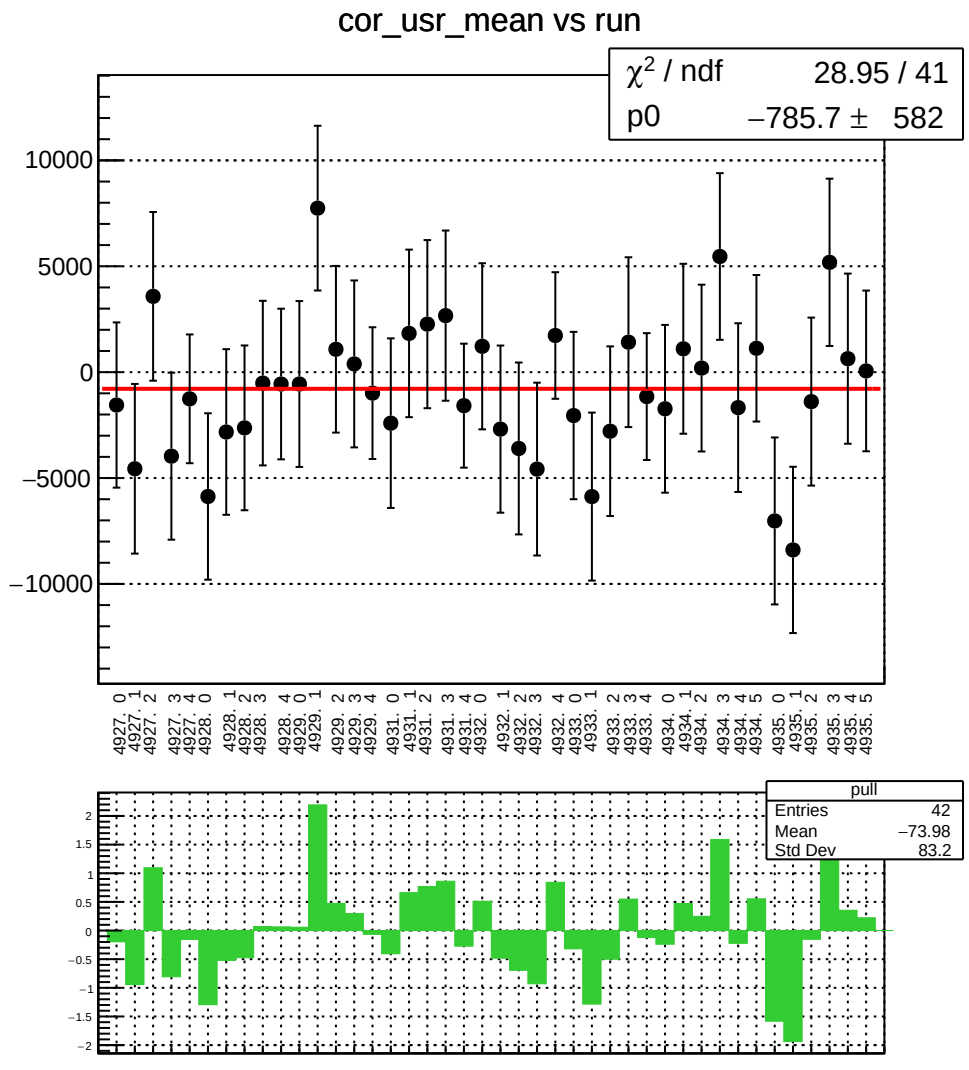

pull1D
Entries 42
Mean −0.004427
Std Dev 1.143
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

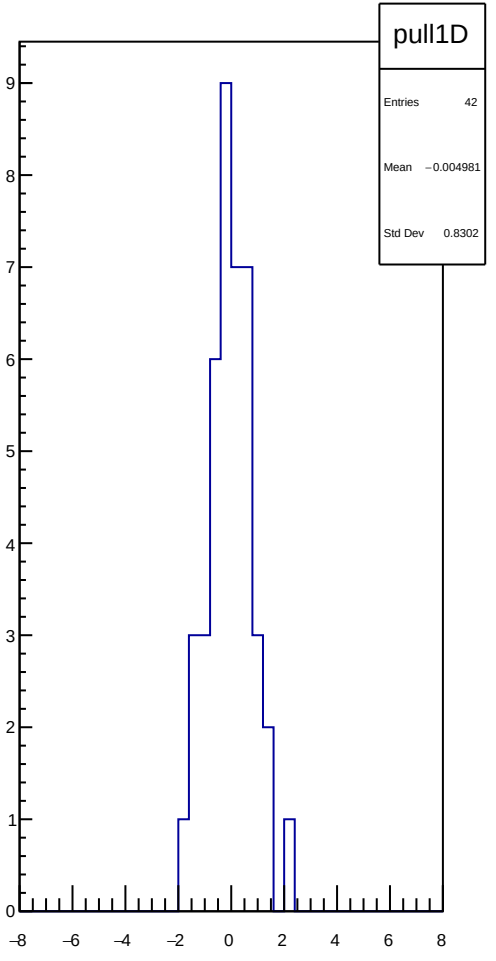

asym_right_dd_rms vs run
χ² / ndf 44.26 / 41
p0 37.07 ± 0.04058
37.8
37.6
37.4
37.2
37
36.8
36.6
36.4
36.2
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

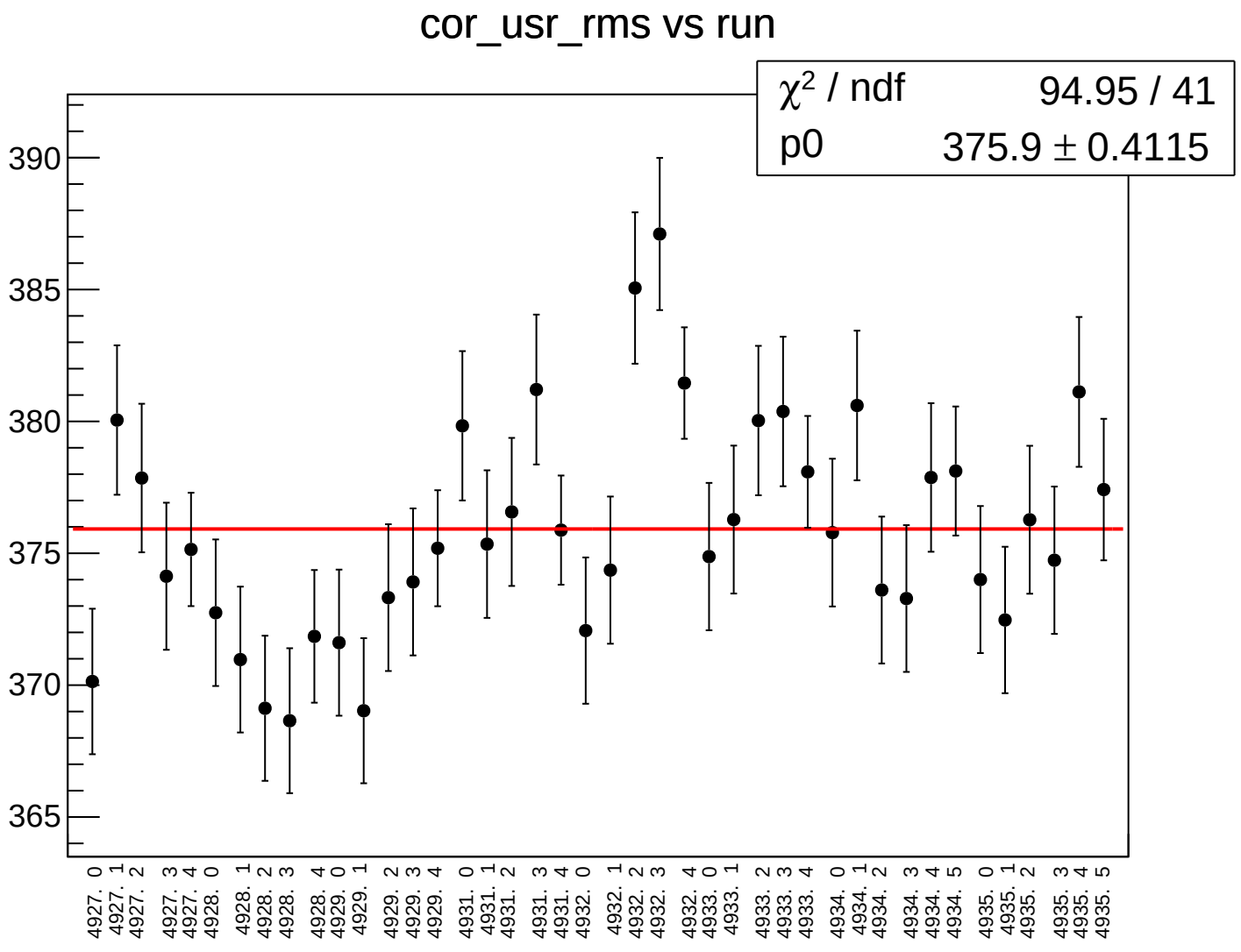

cor_usl_mean vs run
χ² / ndf 35.98 / 41
p0 1073 ± 643.1
15000
10000
5000
0
−5000
−10000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −96.95
Std Dev 124.2
2
1.5
1
0.5
0
−0.5
−1
−1.5

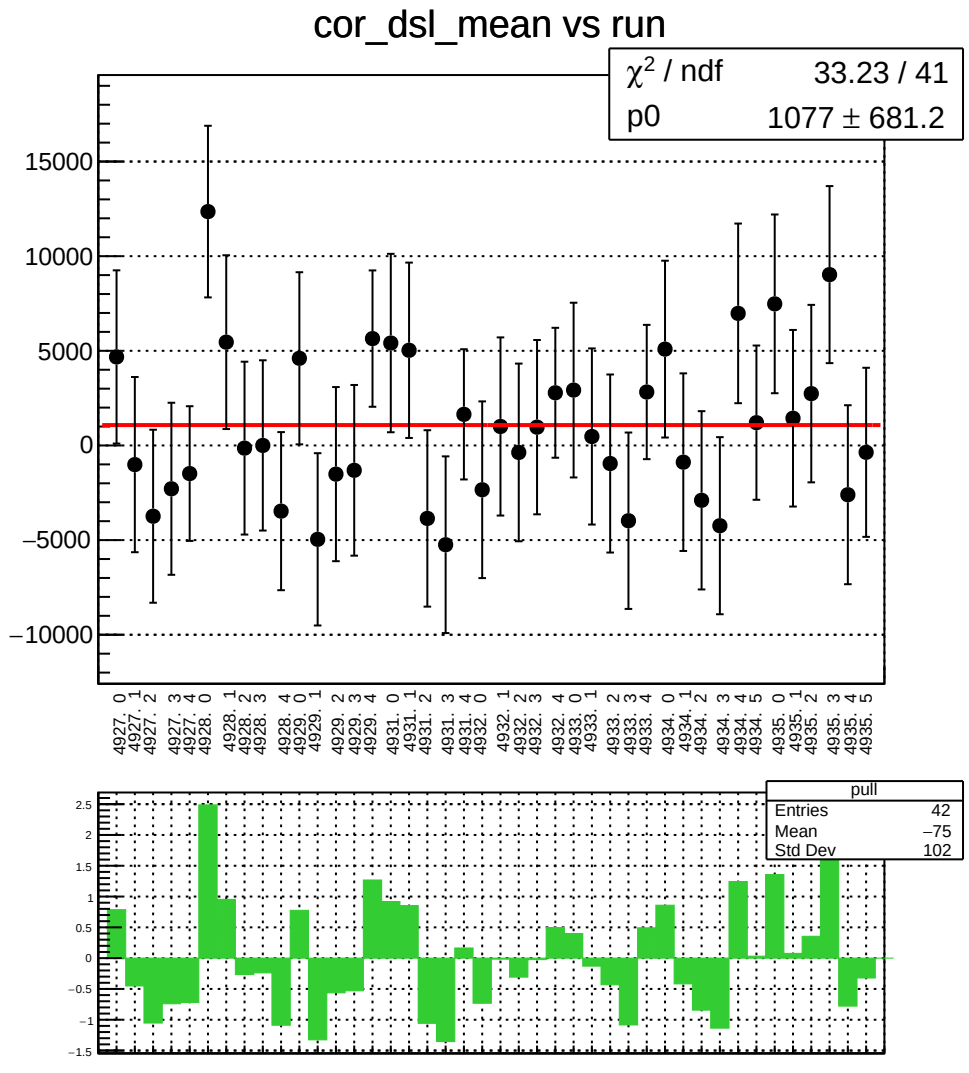

pull1D
Entries 42
Mean −0.008966
Std Dev 0.9255
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

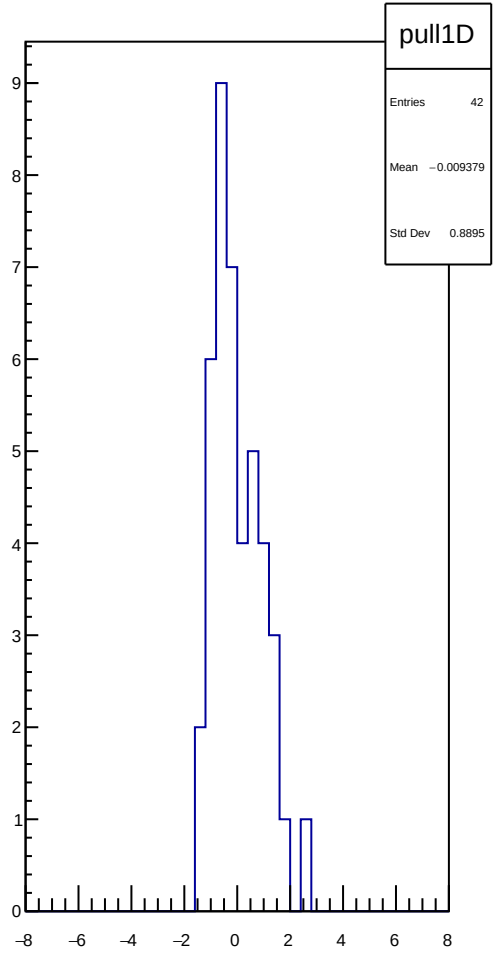

cor_usl_rms vs run
χ² / ndf 136.6 / 41
p0 415.4 ± 0.4547
430
425
420
415
410
405
400
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

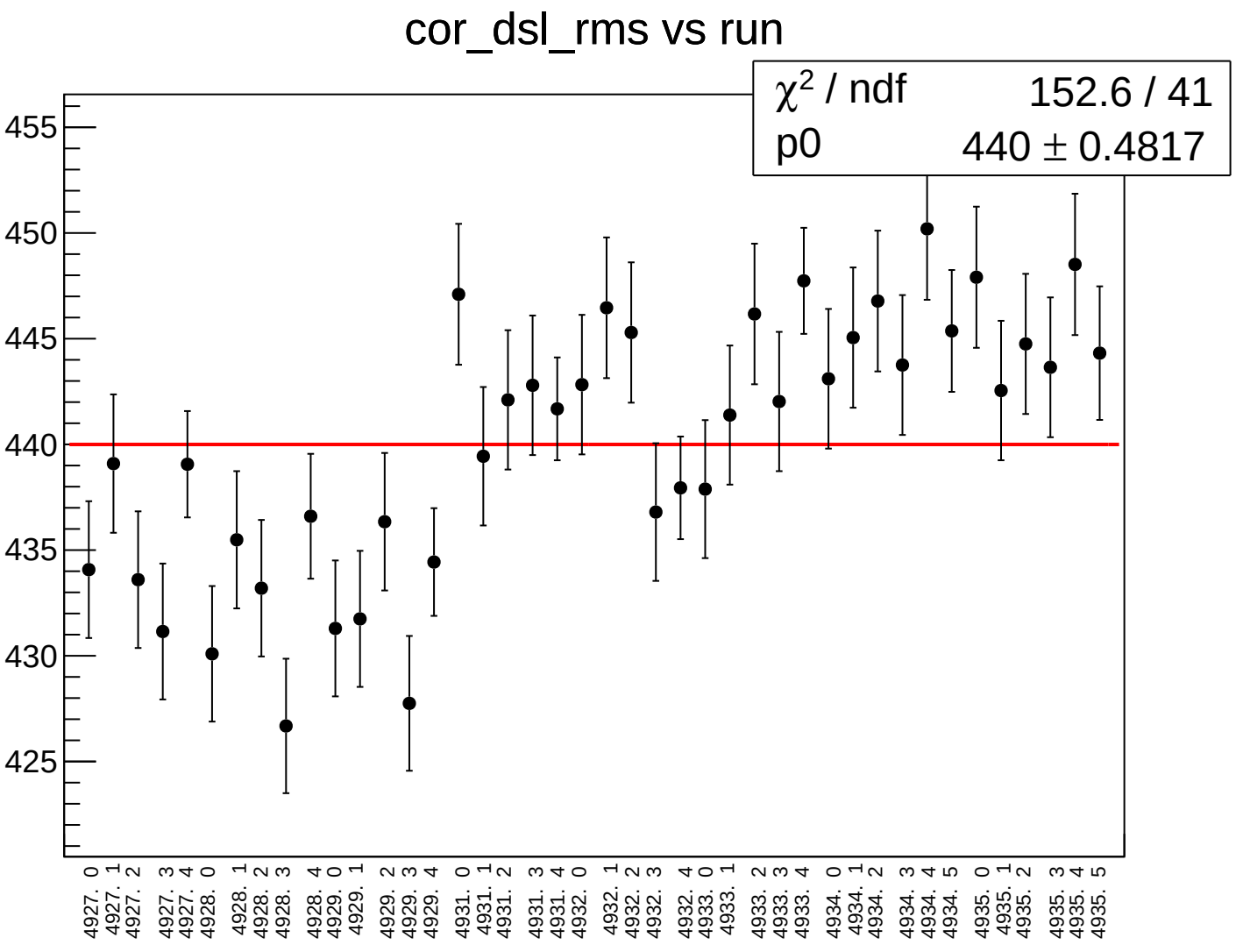

cor_usr_mean vs run
χ² / ndf 28.95 / 41
p0 −785.7 ± 582
10000
5000
0
−5000
−10000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −73.98
Std Dev 83.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

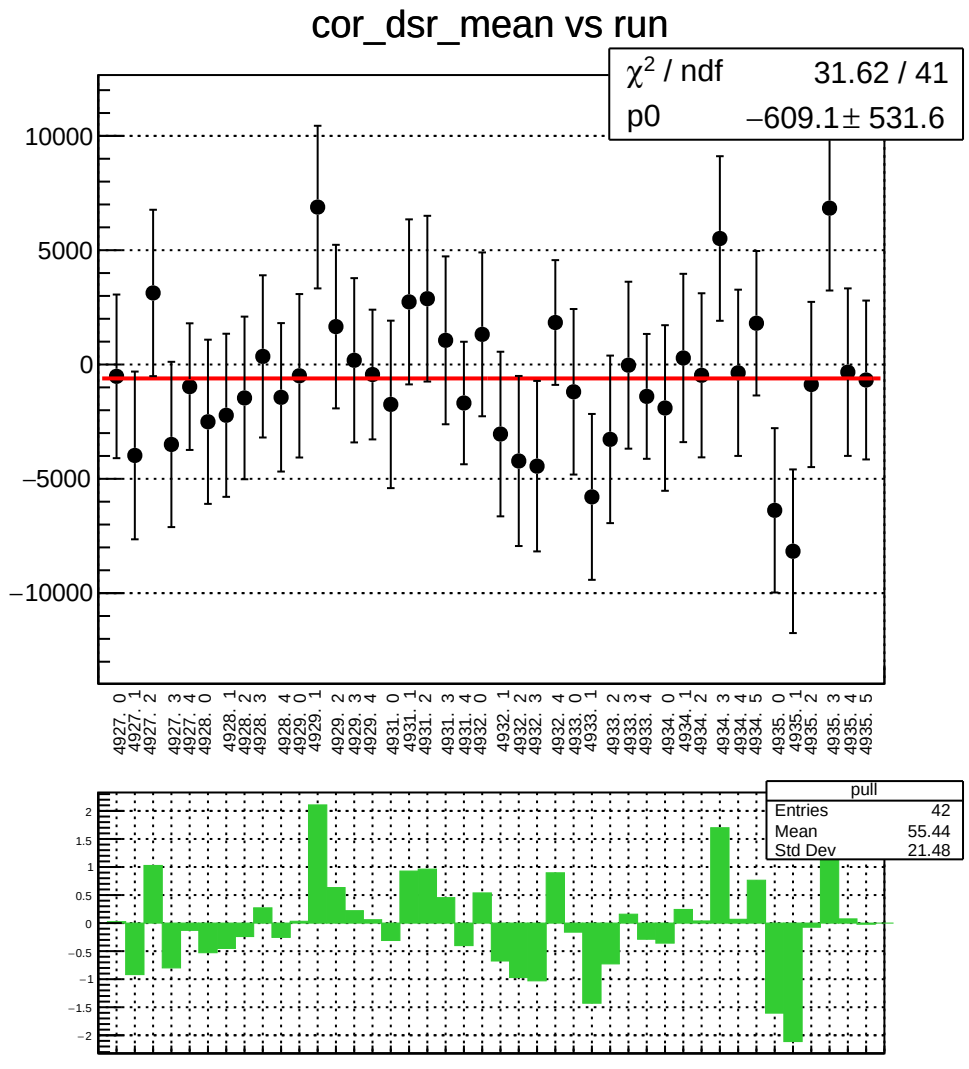

pull1D
Entries 42
Mean −0.004981
Std Dev 0.8302
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

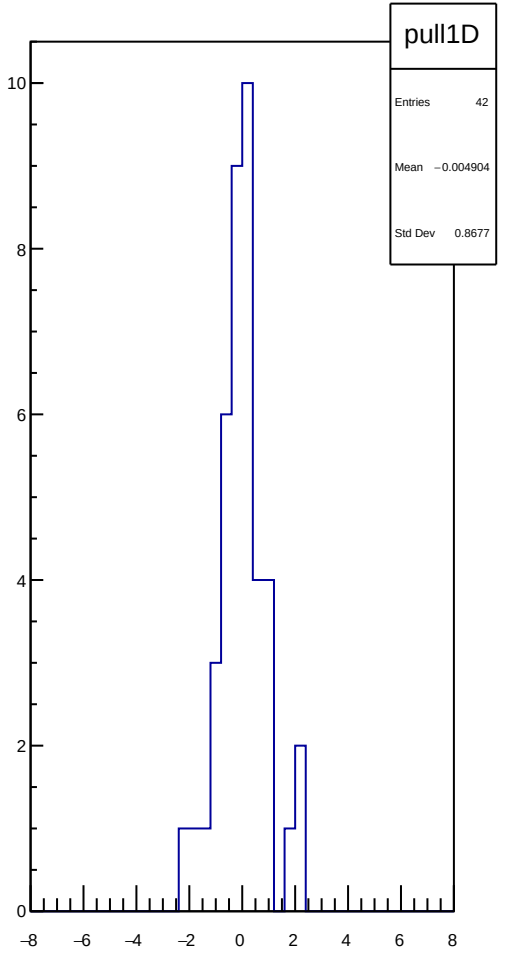

cor_usr_rms vs run
χ² / ndf 94.95 / 41
p0 375.9 ± 0.4115
390
385
380
375
370
365
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

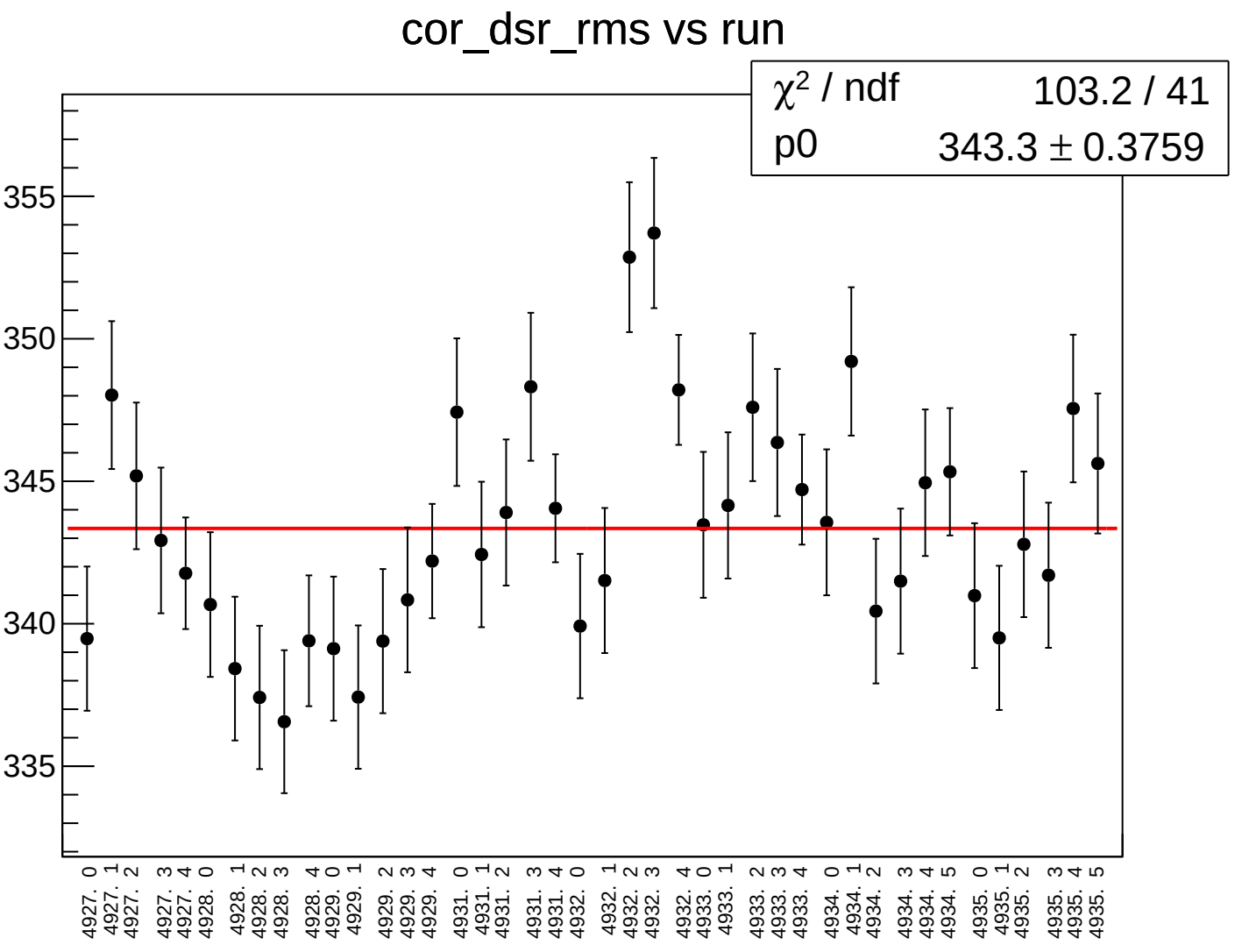

cor_dsl_mean vs run
χ² / ndf 33.23 / 41
p0 1077 ± 681.2
15000
10000
5000
0
−5000
−10000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −75
Std Dev 102
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

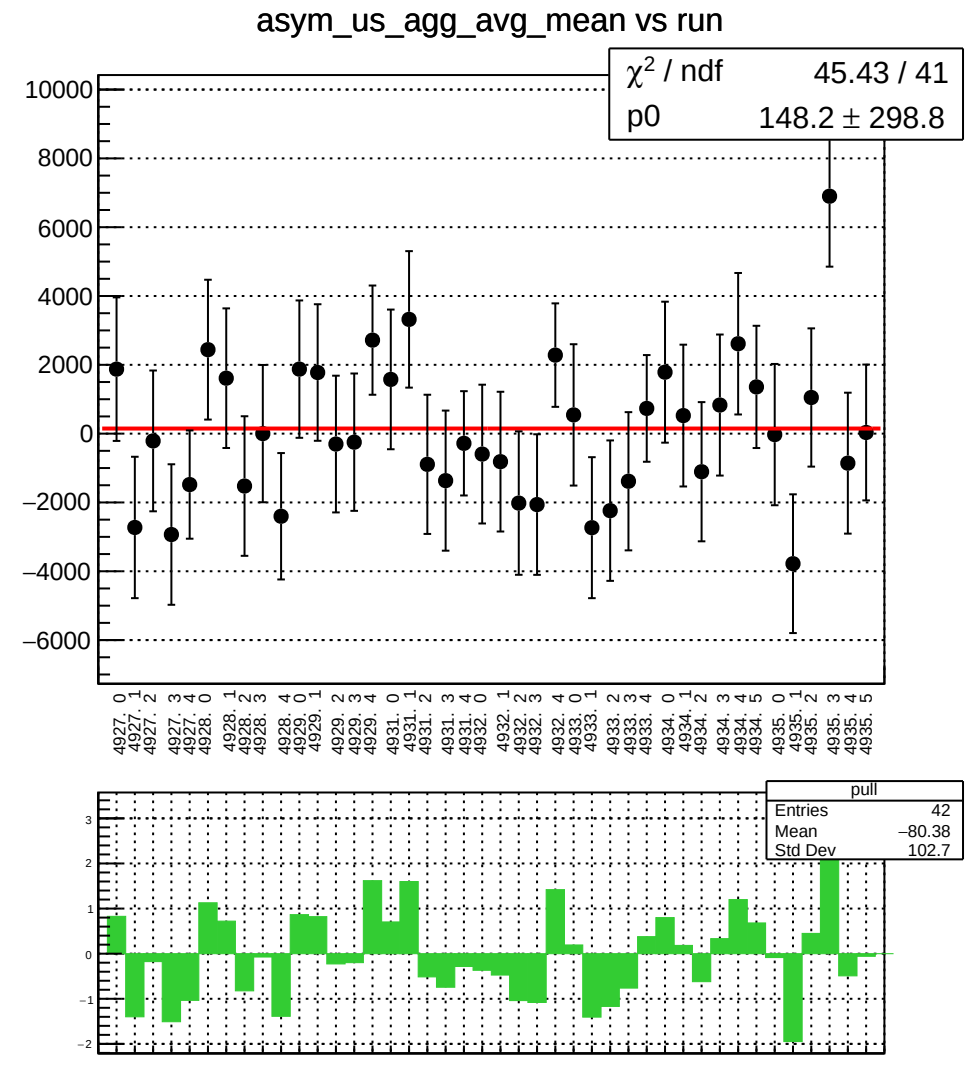

pull1D
Entries 42
Mean −0.009379
Std Dev 0.8895
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

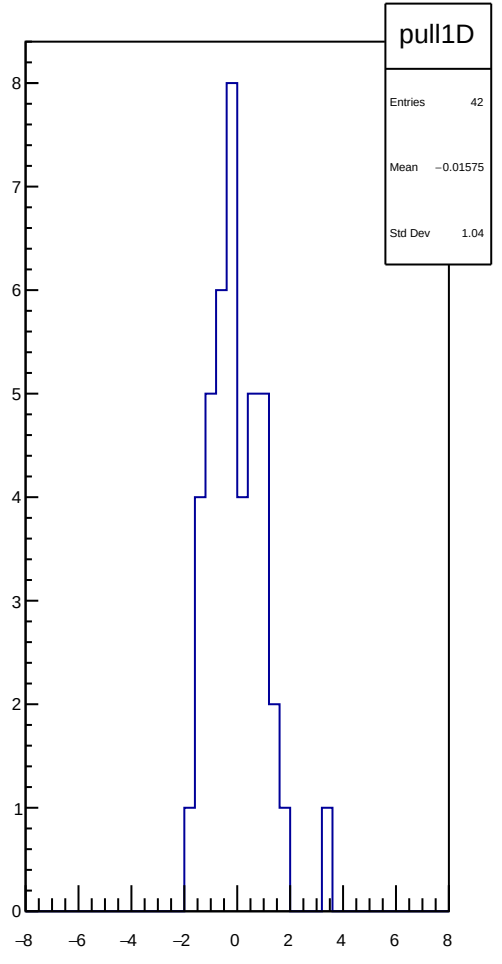

cor_dsl_rms vs run
χ² / ndf 152.6 / 41
p0 440 ± 0.4817
455
450
445
440
435
430
425
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

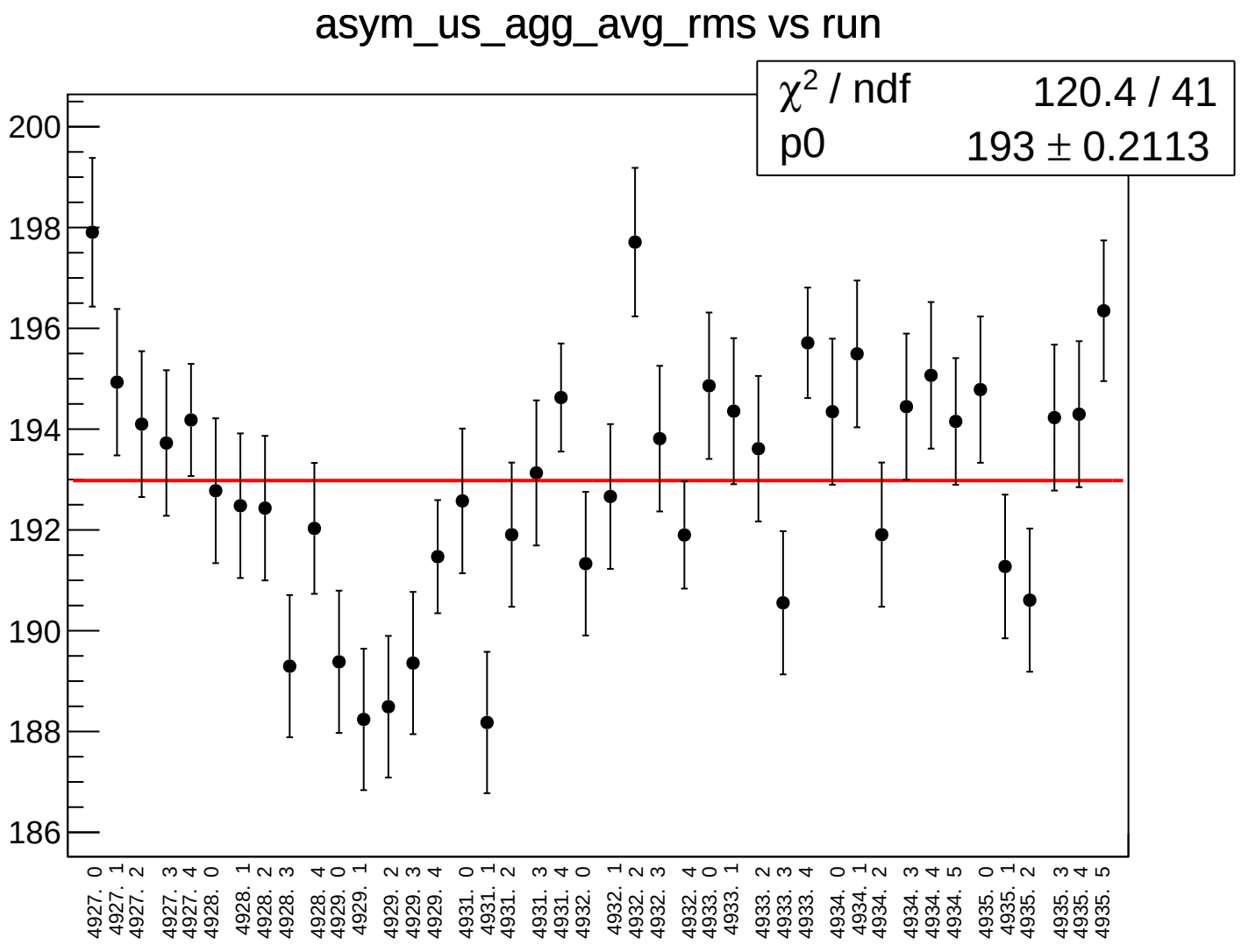

cor_dsr_mean vs run
χ² / ndf 31.62 / 41
p0 −609.1 ± 531.6
10000
5000
0
−5000
−10000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 55.44
Std Dev 21.48
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

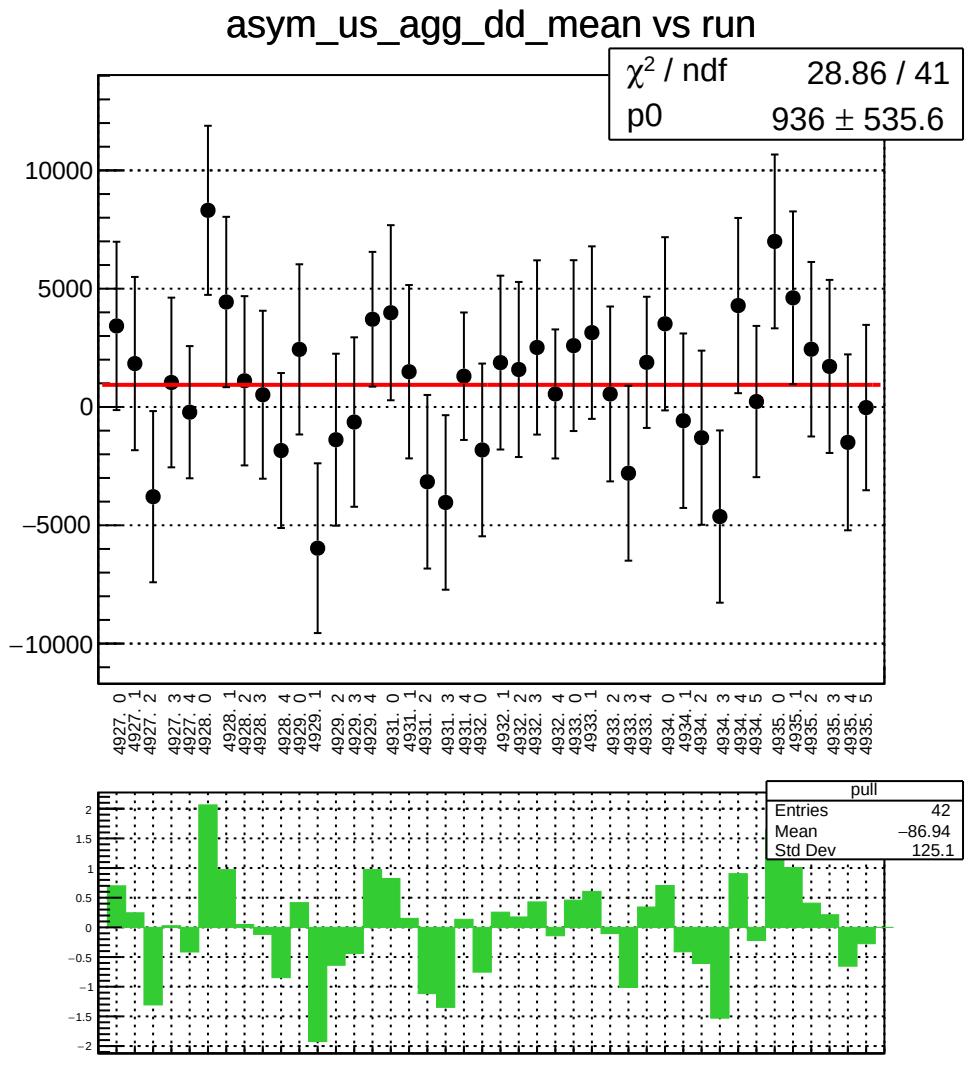

pull1D
Entries 42
Mean −0.004904
Std Dev 0.8677
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

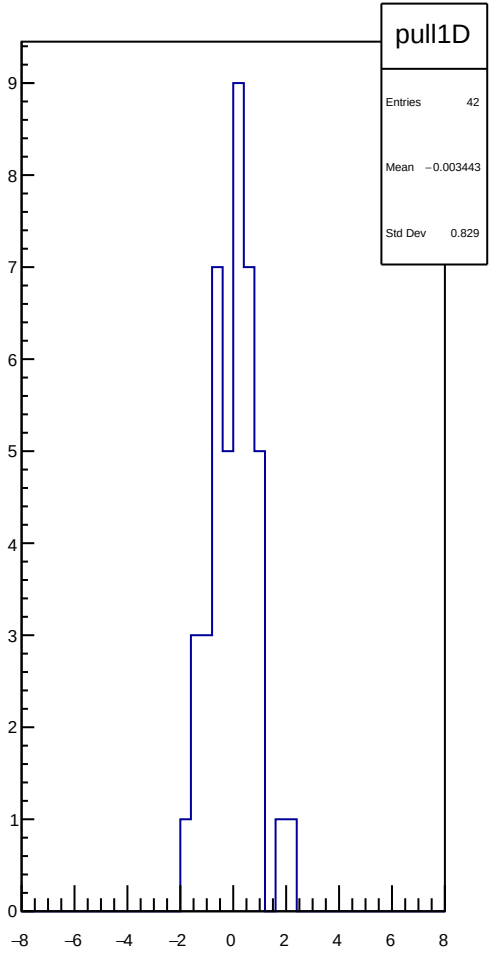

cor_dsr_rms vs run
χ² / ndf 103.2 / 41
p0 343.3 ± 0.3759
355
350
345
340
335
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

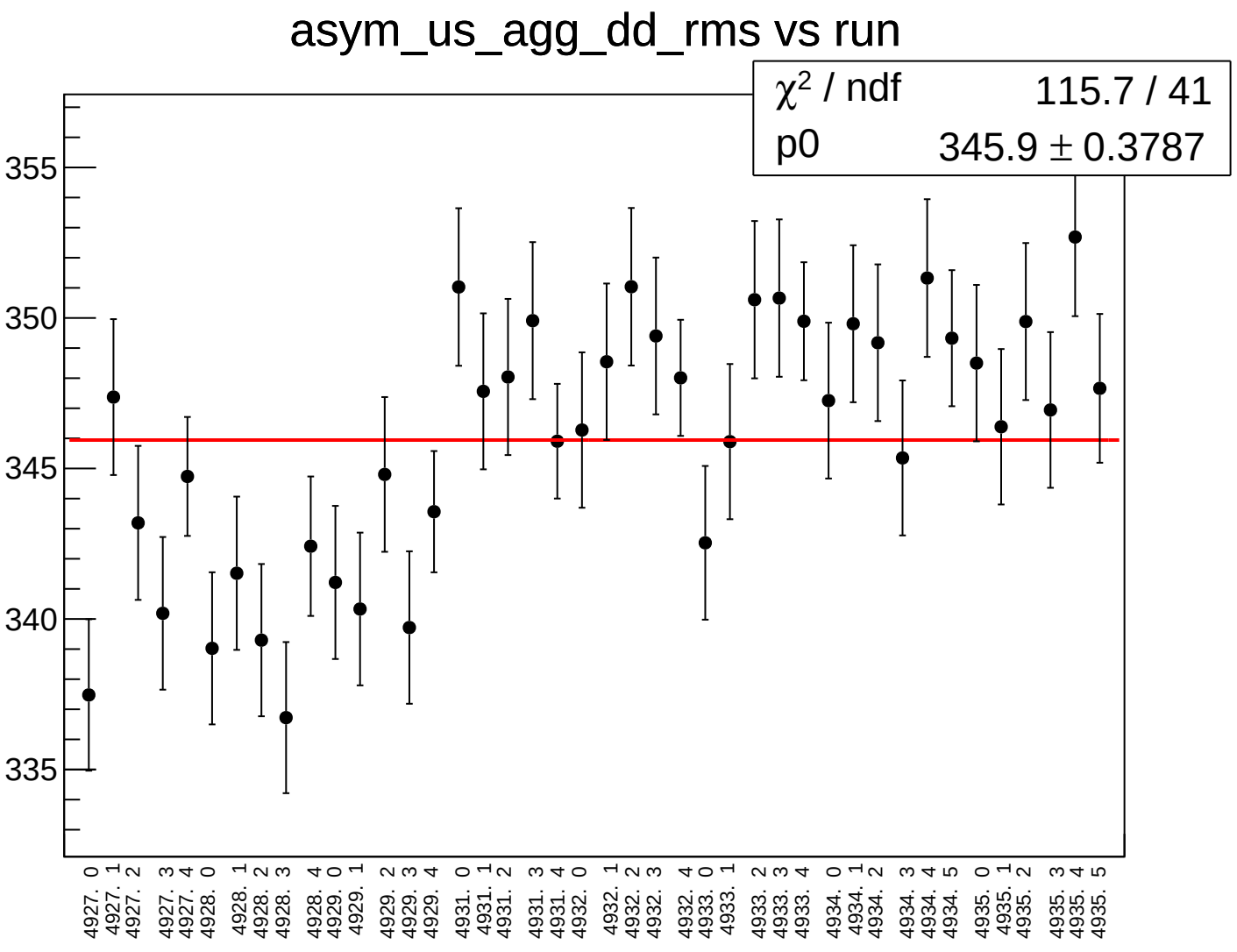

asym_us_agg_avg_mean vs run
χ² / ndf 45.43 / 41
p0 148.2 ± 298.8
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −80.38
Std Dev 102.7
3
2
1
0
−1
−2

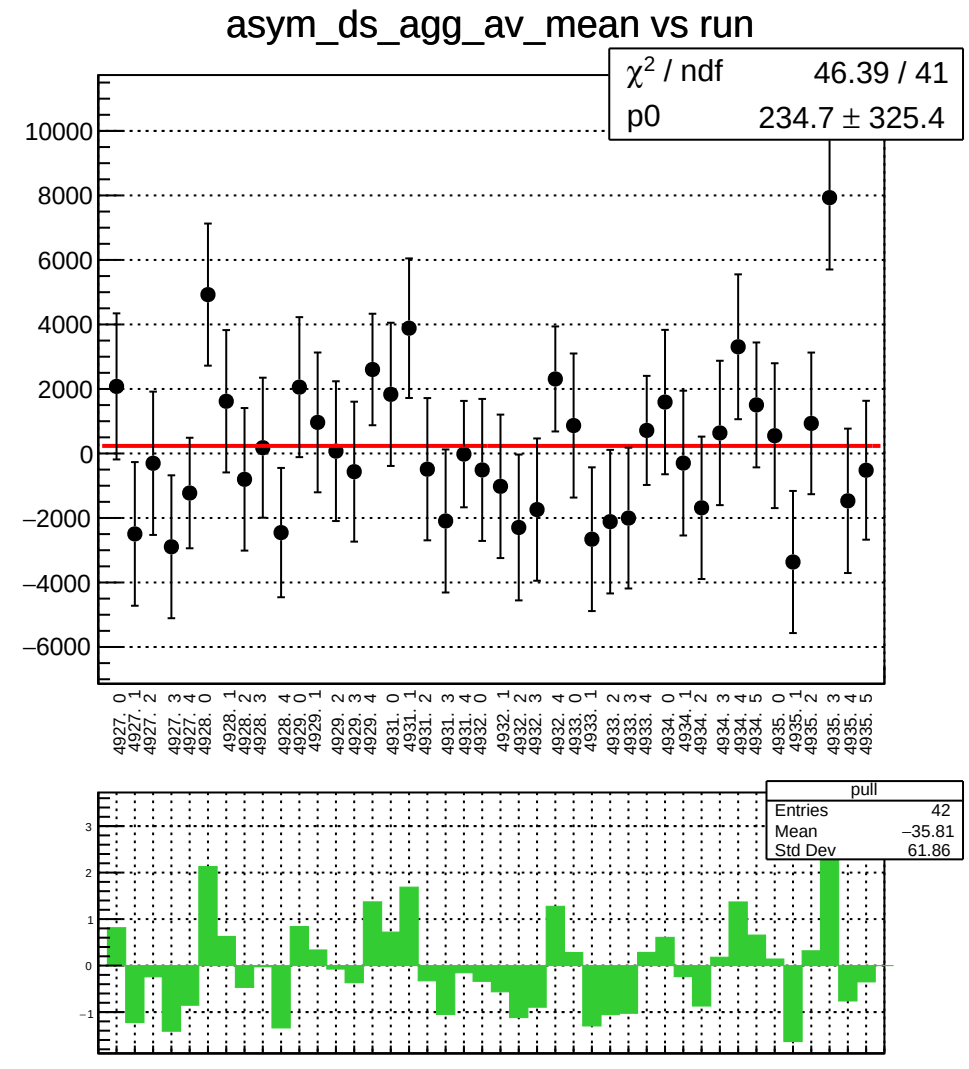

pull1D
Entries 42
Mean −0.01575
Std Dev 1.04
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

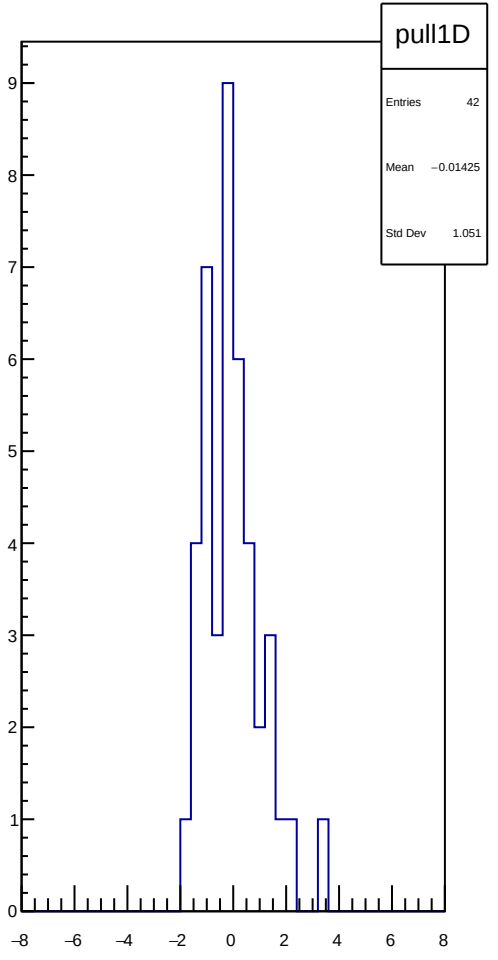

asym_us_agg_avg_rms vs run
χ^2 / ndf 120.4 / 41
p0 193 ± 0.2113
200
198
196
194
192
190
188
186
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

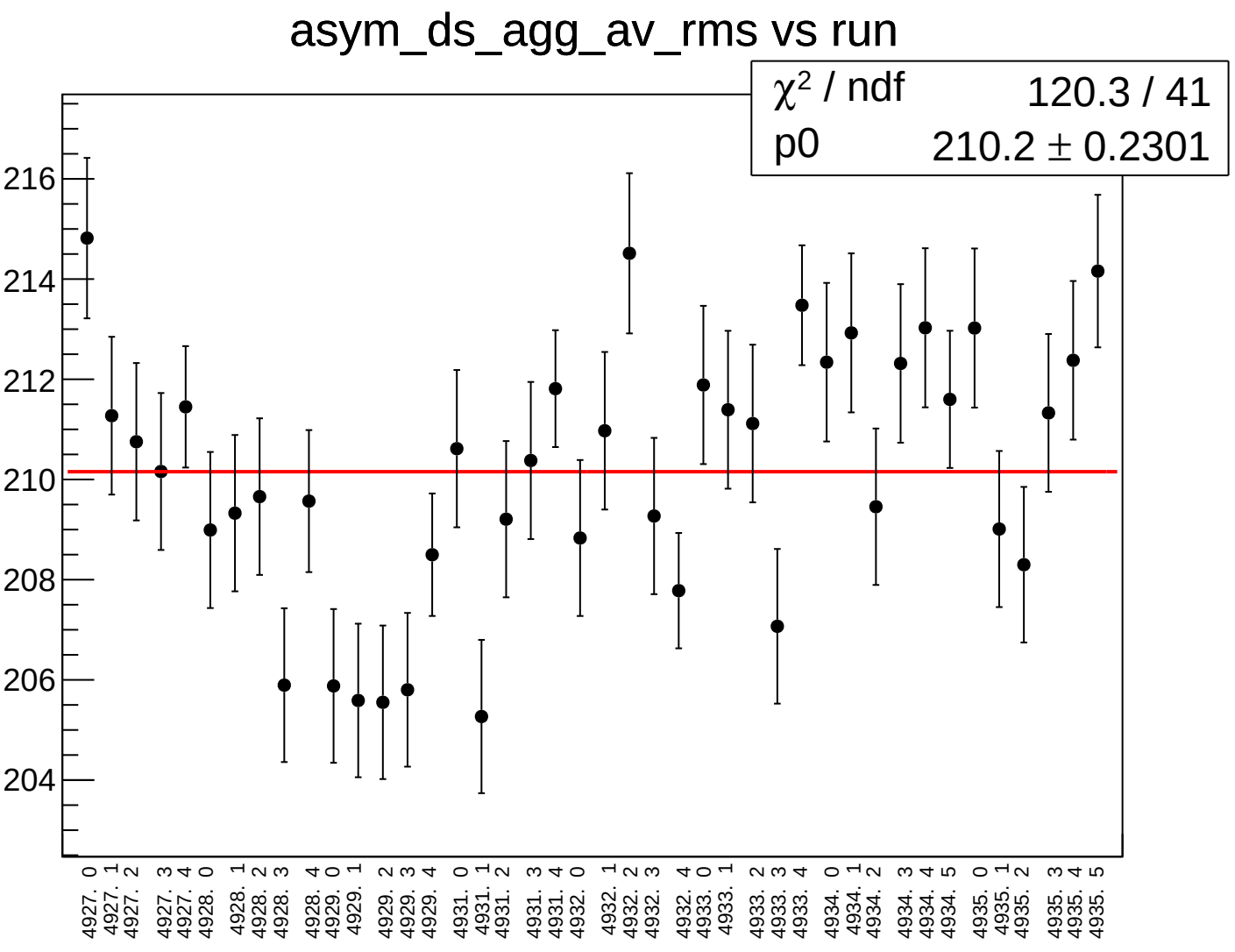

asym_us_agg_dd_mean vs run
χ² / ndf 28.86 / 41
p0 936 ± 535.6
10000
5000
0
−5000
−10000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −86.94
Std Dev 125.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

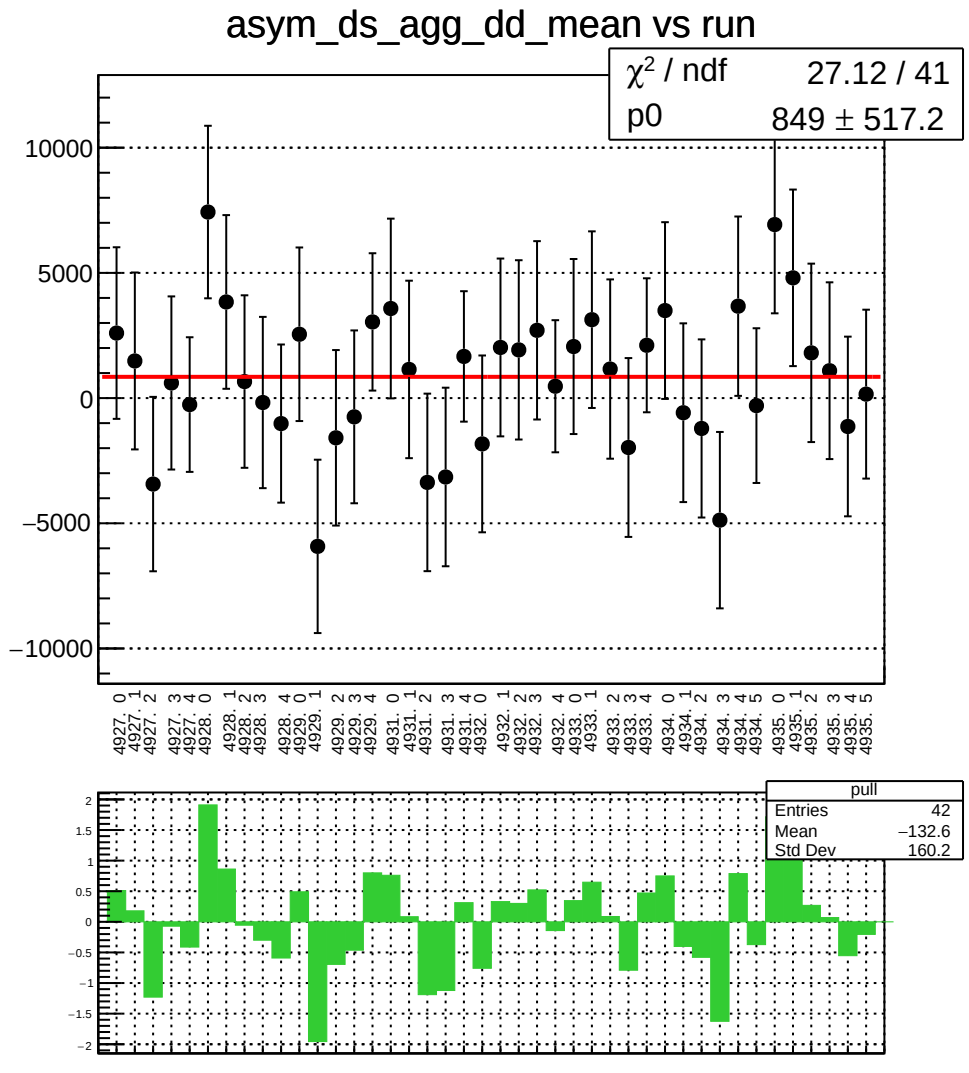

pull1D
Entries 42
Mean −0.003443
Std Dev 0.829
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

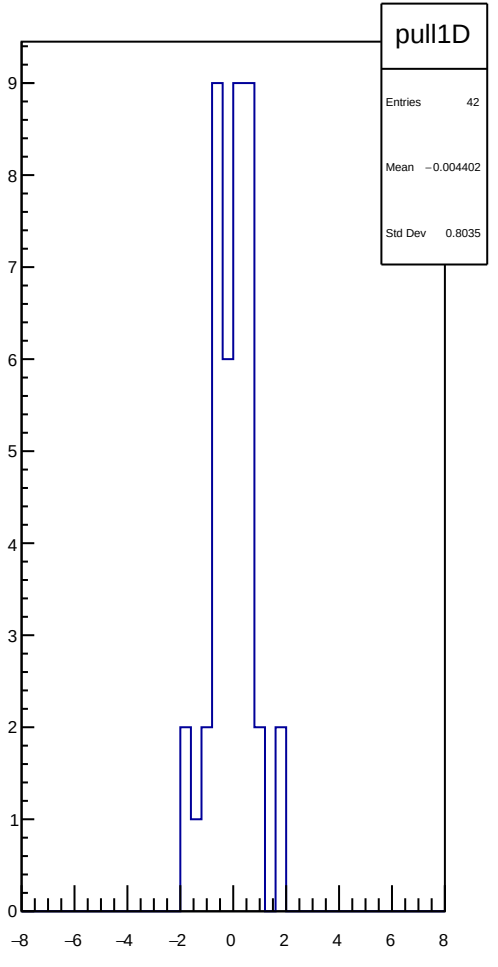

asym_us_agg_dd_rms vs run
χ^2 / ndf 115.7 / 41
p0 345.9 ± 0.3787
355
350
345
340
335
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

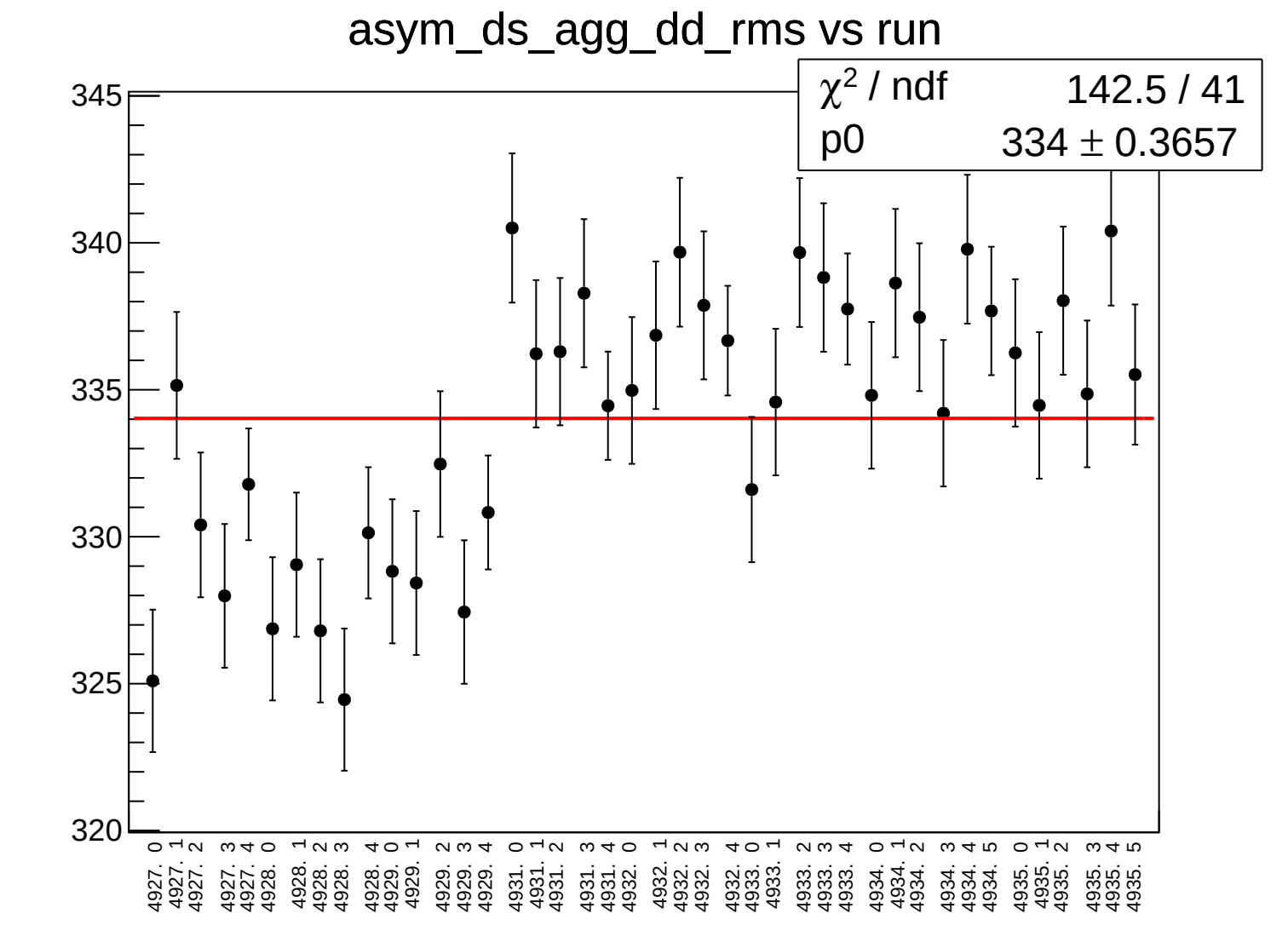

asym_ds_agg_av_mean vs run
χ² / ndf 46.39 / 41
p0 234.7 ± 325.4
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −35.81
Std Dev 61.86
3
2
1
0
−1

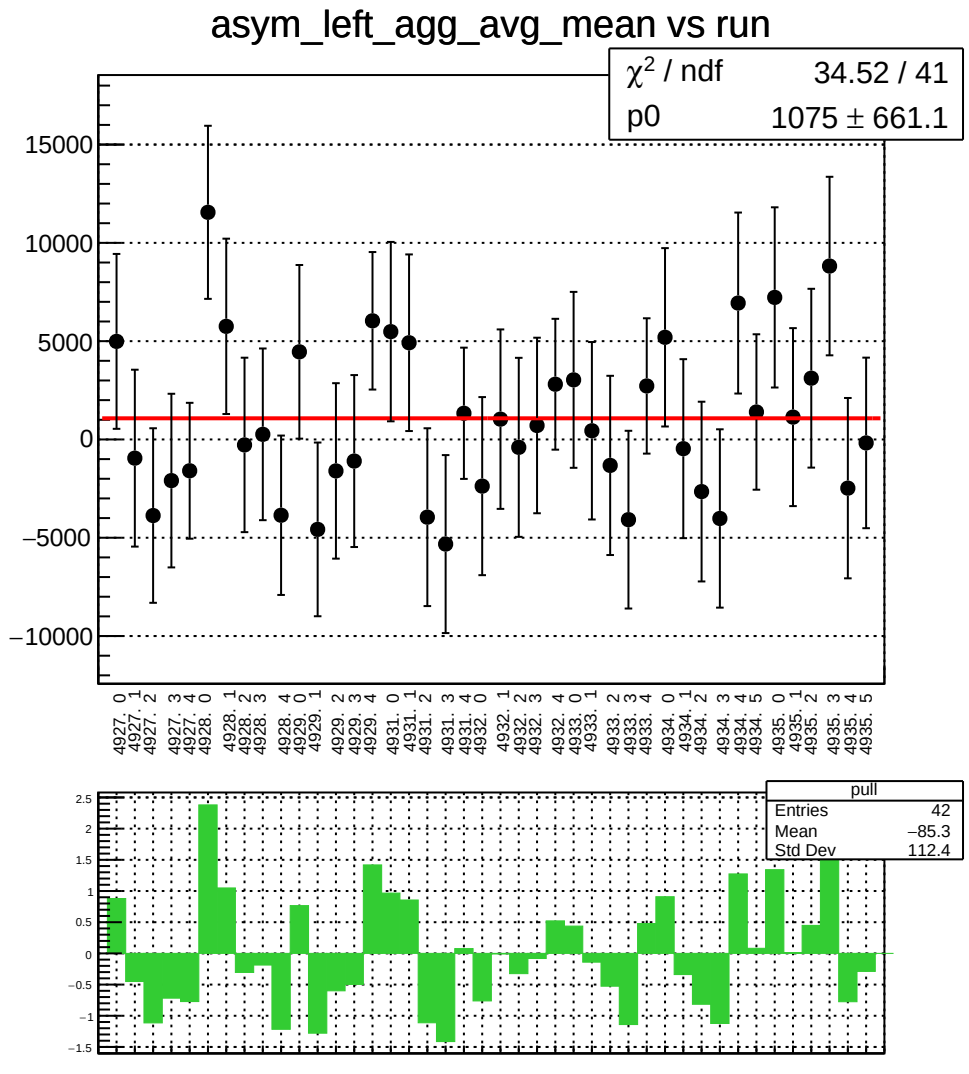

pull1D
Entries 42
Mean −0.01425
Std Dev 1.051
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

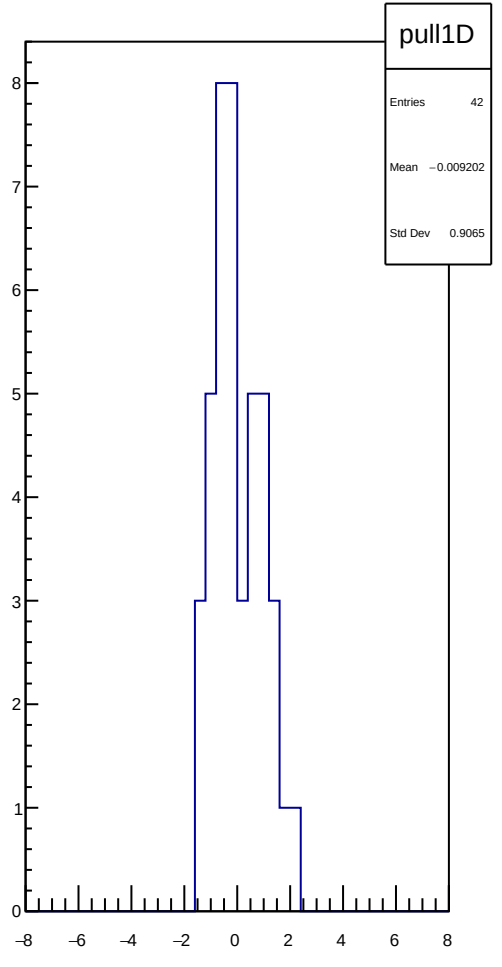

asym_ds_agg_av_rms vs run
χ² / ndf 120.3 / 41
p0 210.2 ± 0.2301
216
214
212
210
208
206
204
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

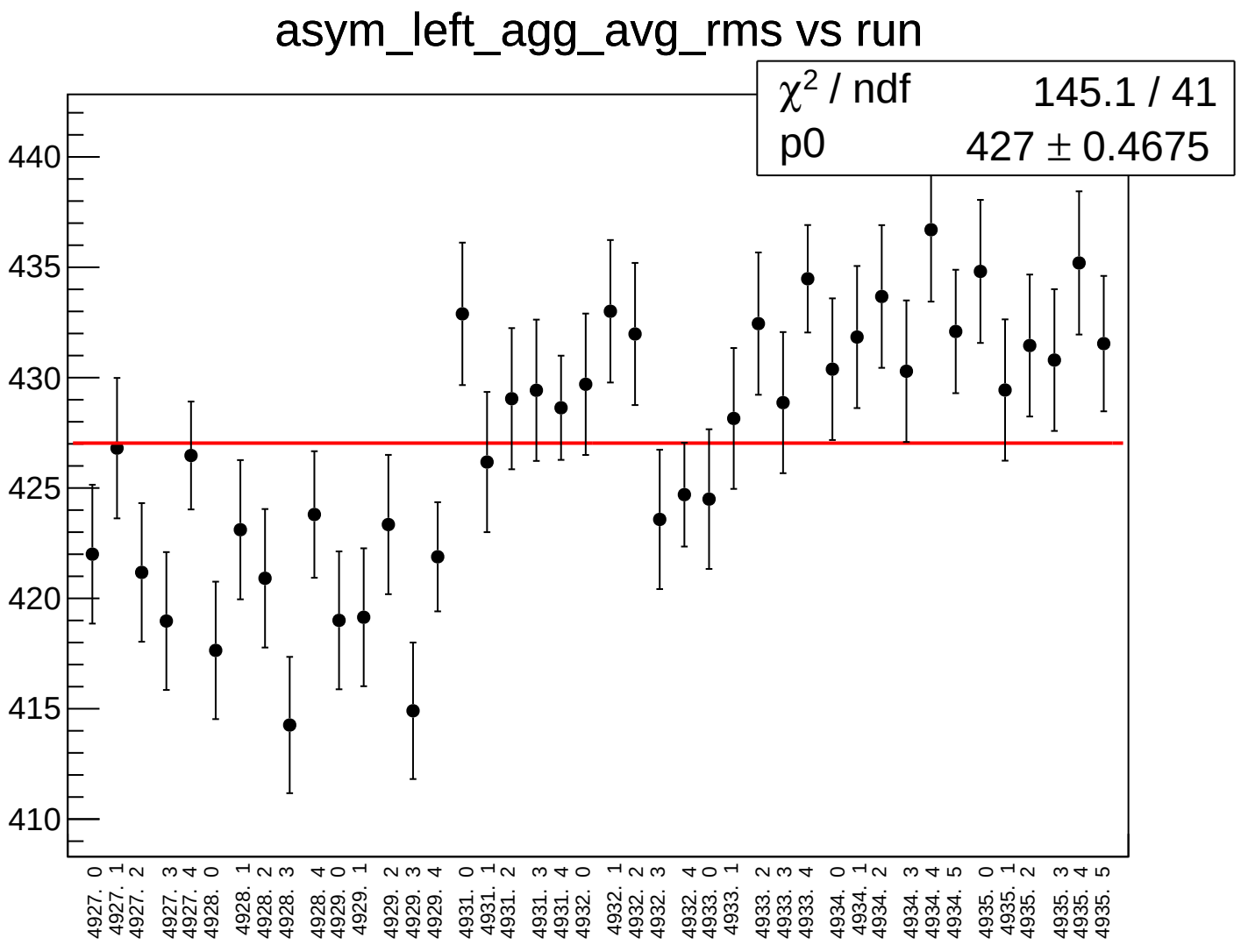

asym_ds_agg_dd_mean vs run
χ² / ndf 27.12 / 41
p0 849 ± 517.2
10000
5000
0
−5000
−10000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −132.6
Std Dev 160.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

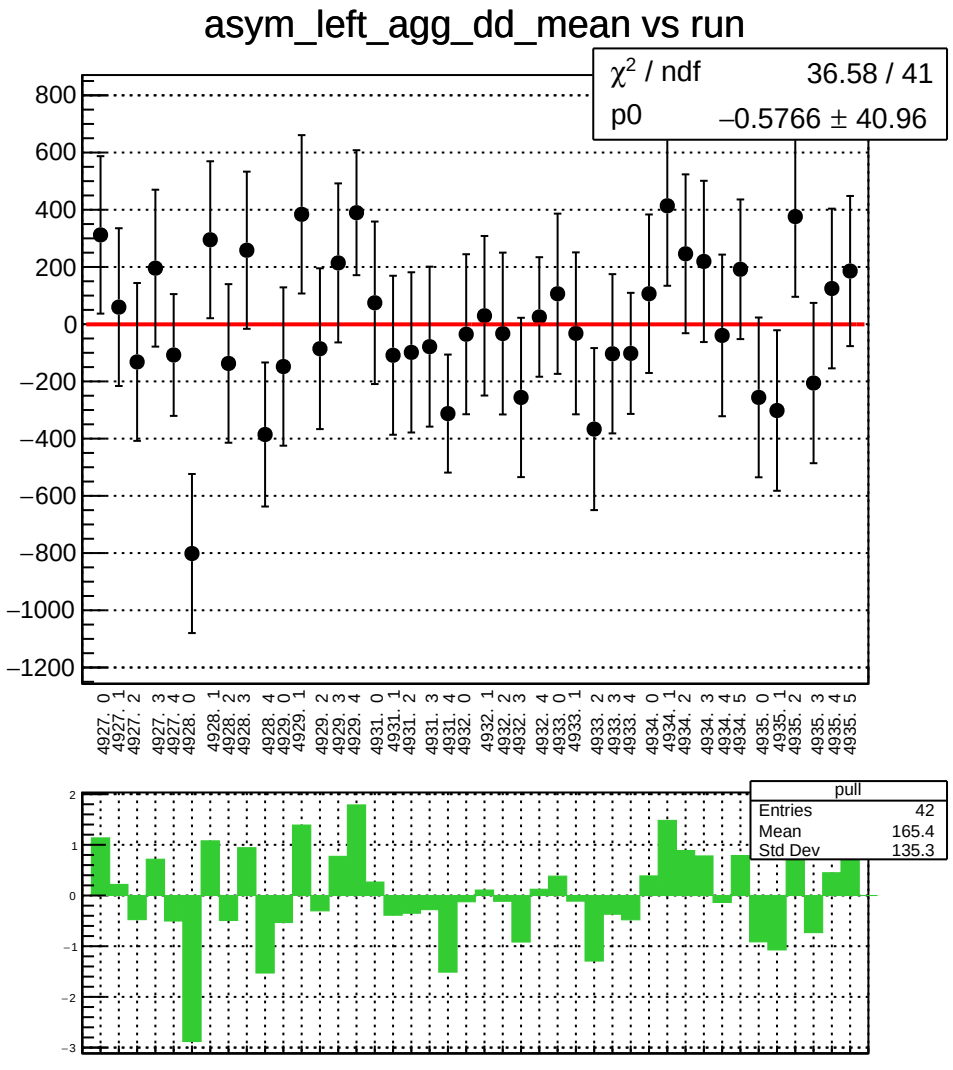

pull1D
Entries 42
Mean −0.004402
Std Dev 0.8035
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

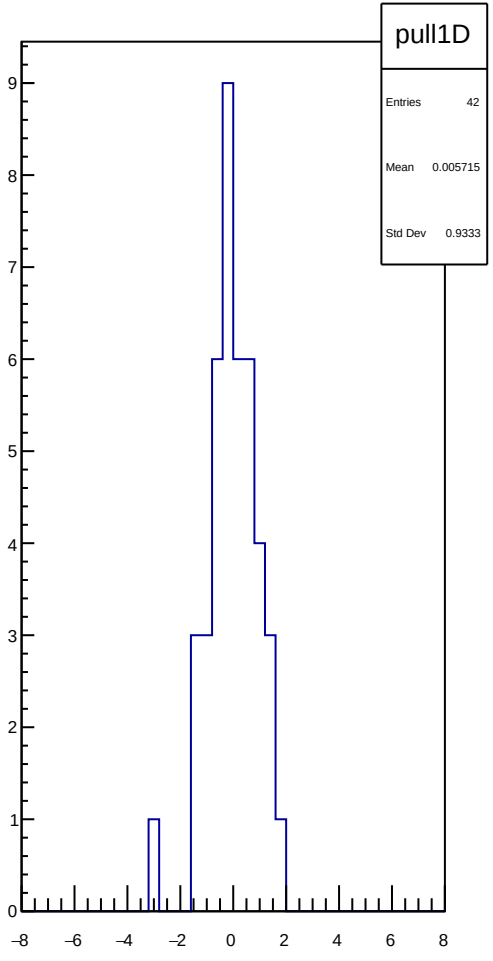

asym_ds_agg_dd_rms vs run
χ² / ndf 142.5 / 41
p0 334 ± 0.3657
345
340
335
330
325
320
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

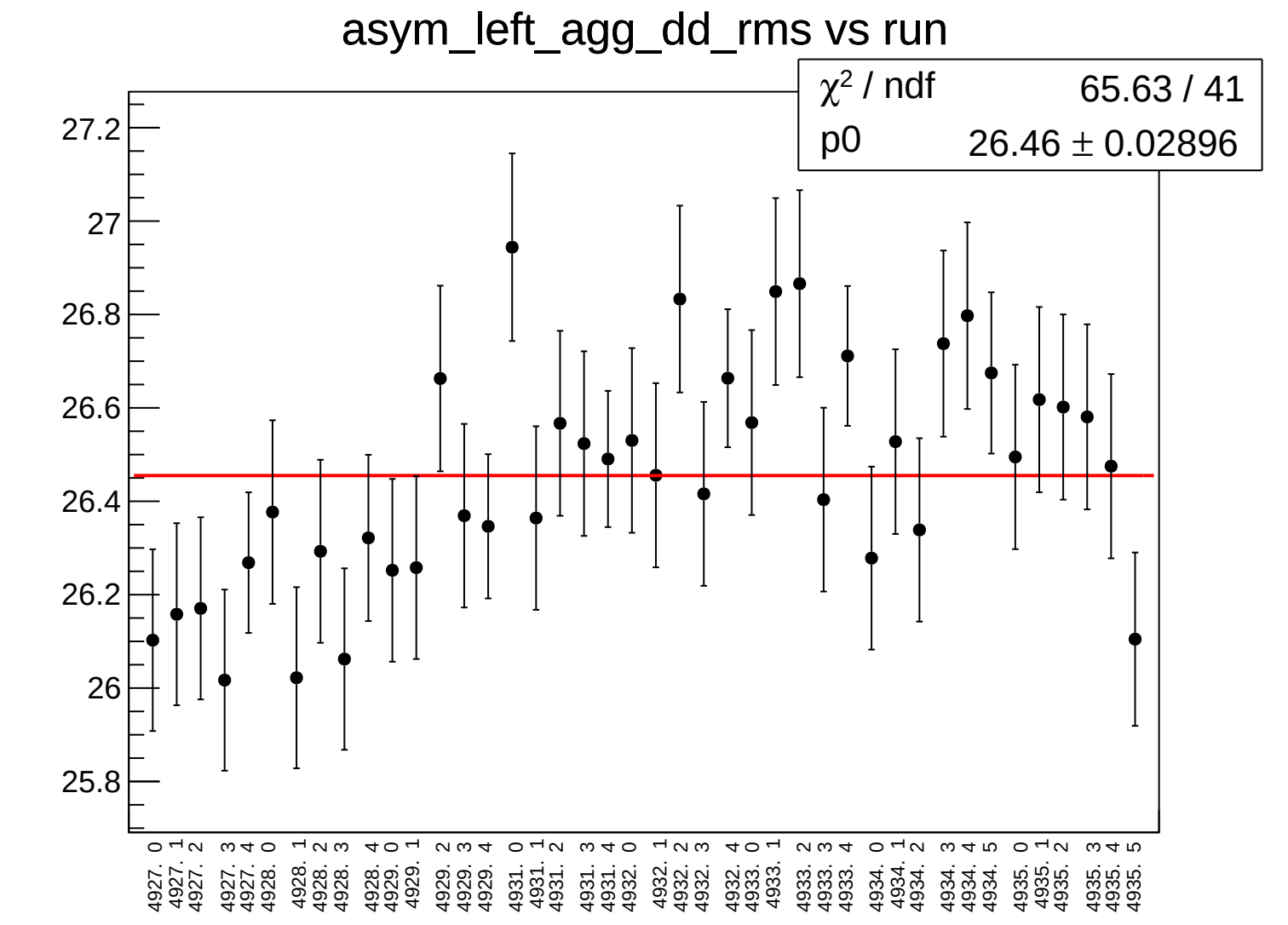

asym_left_agg_avg_mean vs run
χ² / ndf 34.52 / 41
p0 1075 ± 661.1
15000
10000
5000
0
−5000
−10000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −85.3
Std Dev 112.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

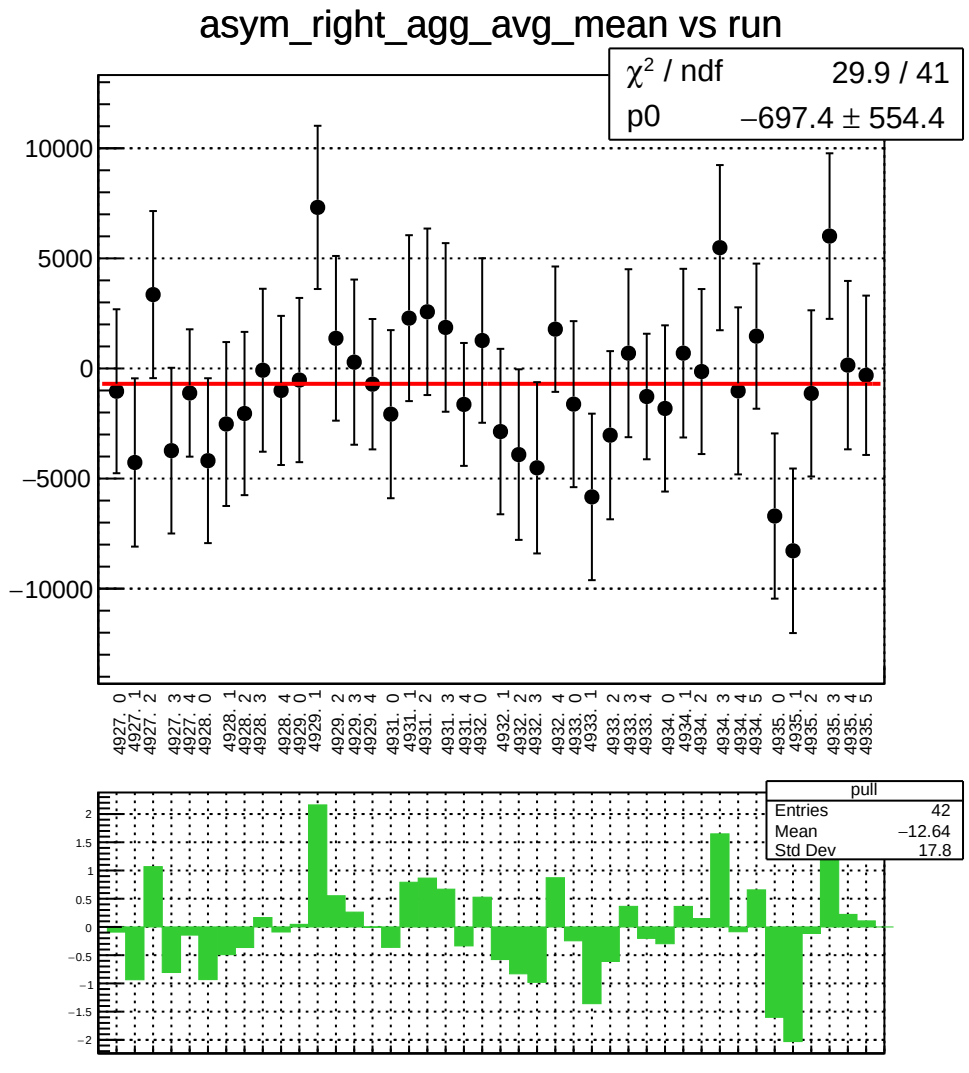

pull1D
Entries 42
Mean −0.009202
Std Dev 0.9065
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

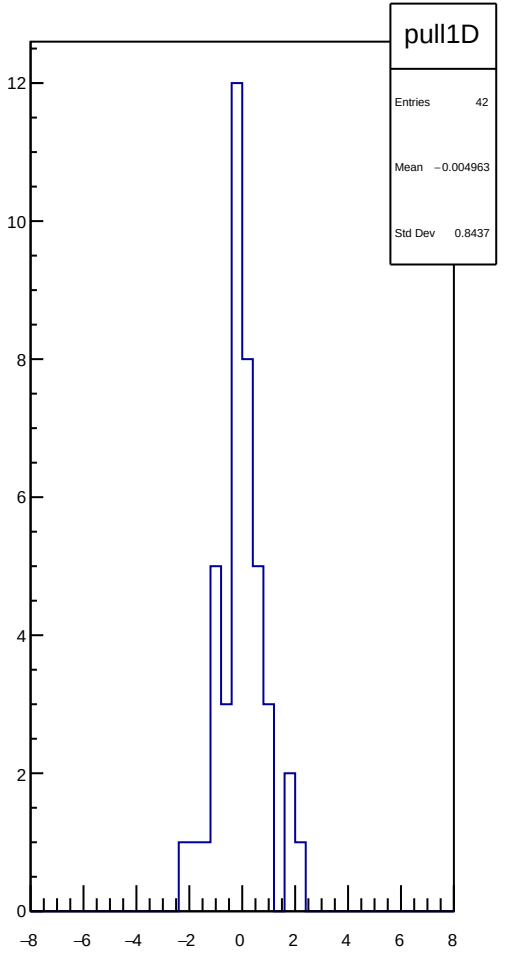

asym_left_agg_avg_rms vs run
χ² / ndf 145.1 / 41
p0 427 ± 0.4675
440
435
430
425
420
415
410
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

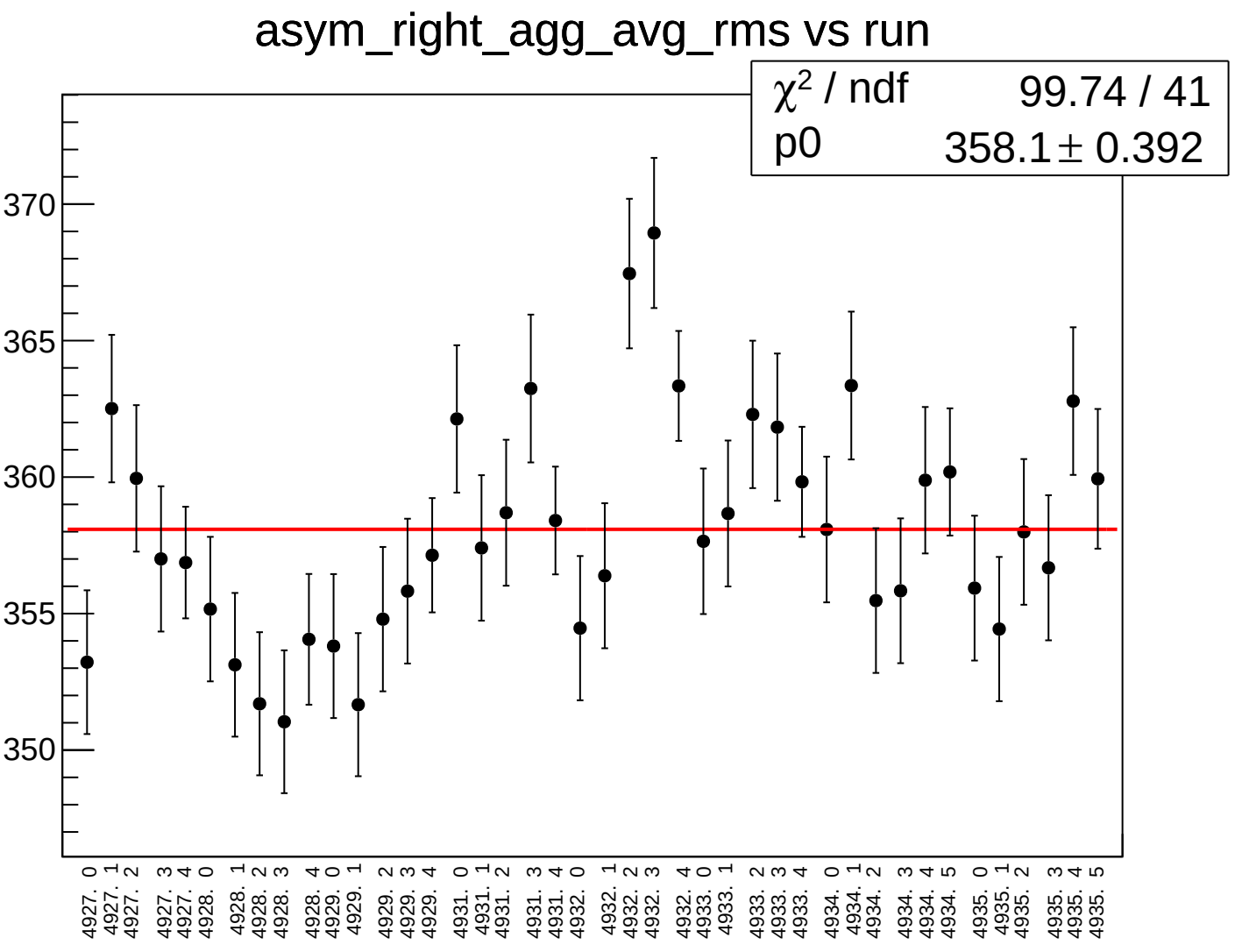

asym_left_agg_dd_mean vs run
χ² / ndf 36.58 / 41
p0 −0.5766 ± 40.96
pull
Entries 42
Mean 165.4
Std Dev 135.3

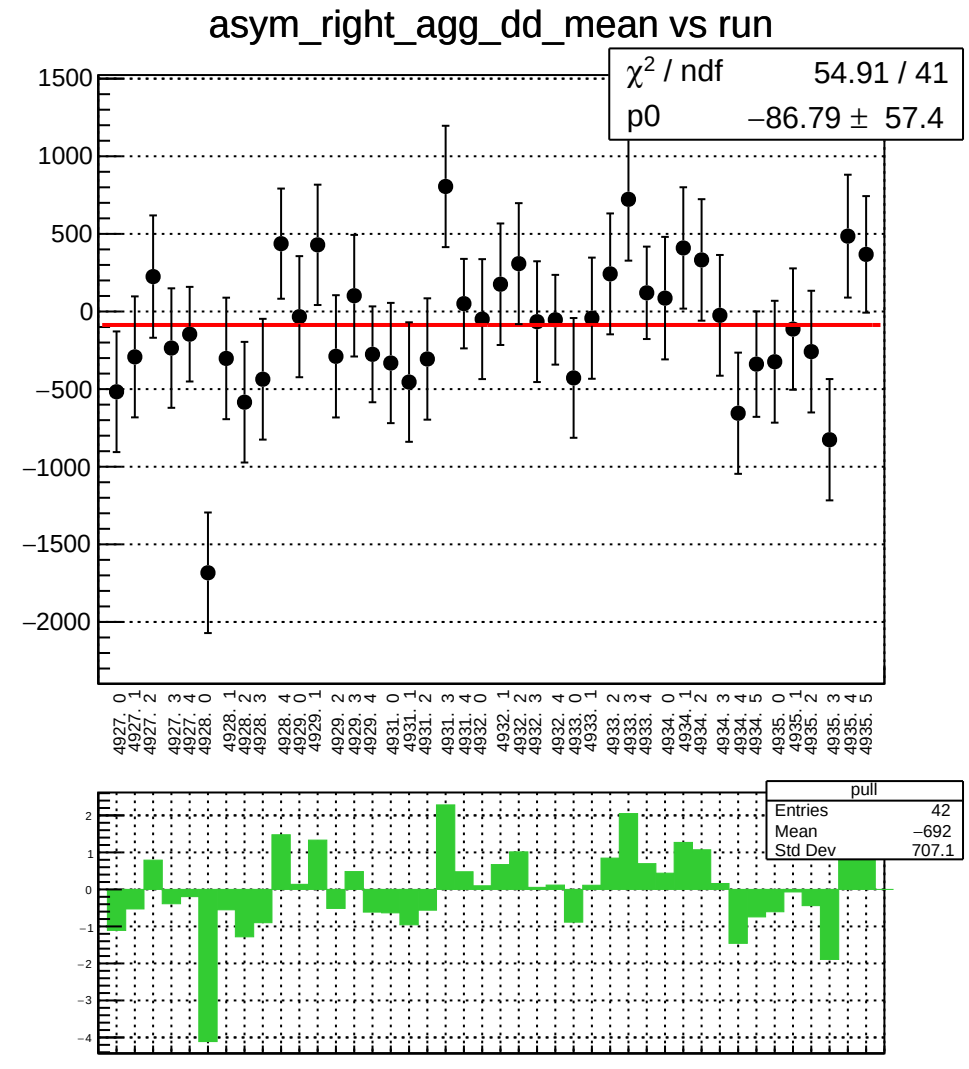

pull1D
Entries 42
Mean 0.005715
Std Dev 0.9333

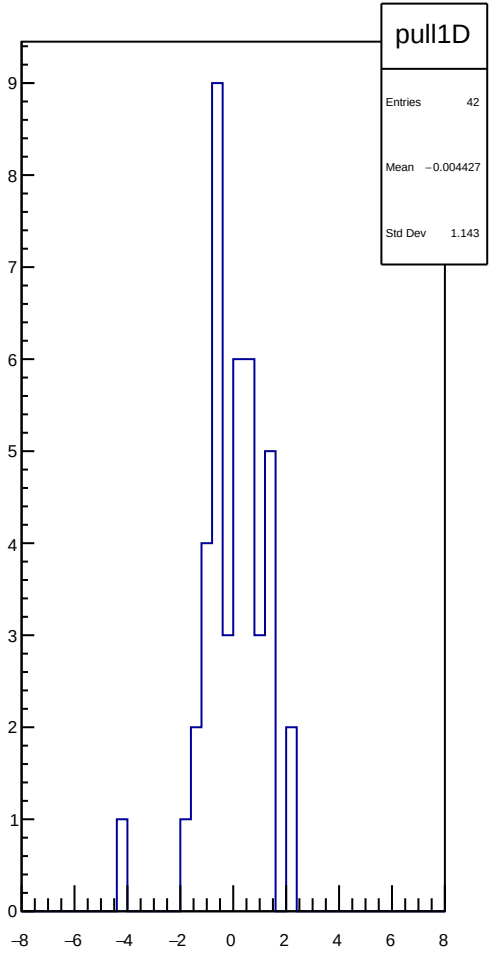

asym_left_agg_dd_rms vs run
χ² / ndf 65.63 / 41
p0 26.46 ± 0.02896
27.2
27
26.8
26.6
26.4
26.2
26
25.8
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

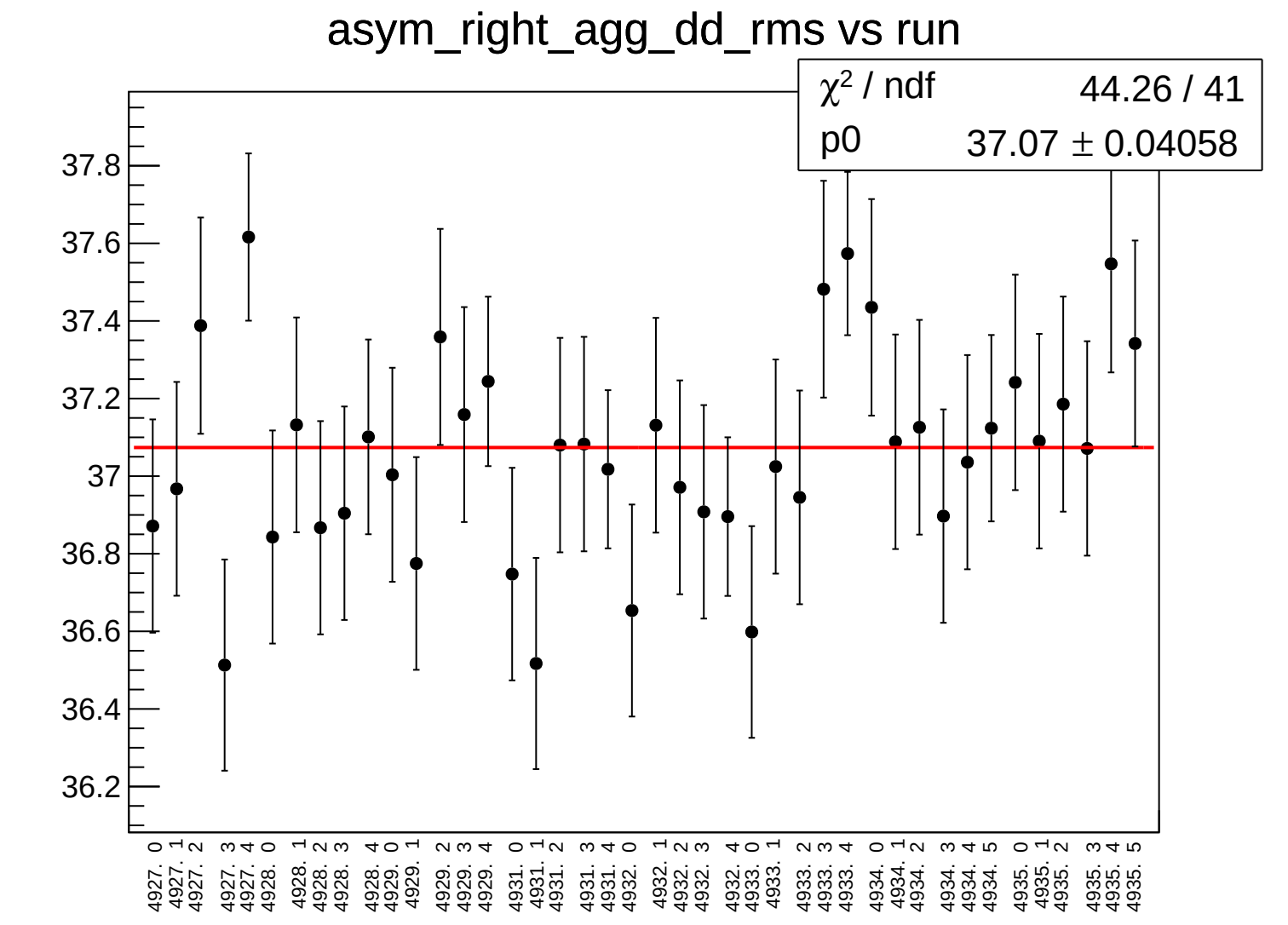

asym_right_agg_avg_mean vs run
χ² / ndf 29.9 / 41
p0 −697.4 ± 554.4
10000
5000
0
−5000
−10000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −12.64
Std Dev 17.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

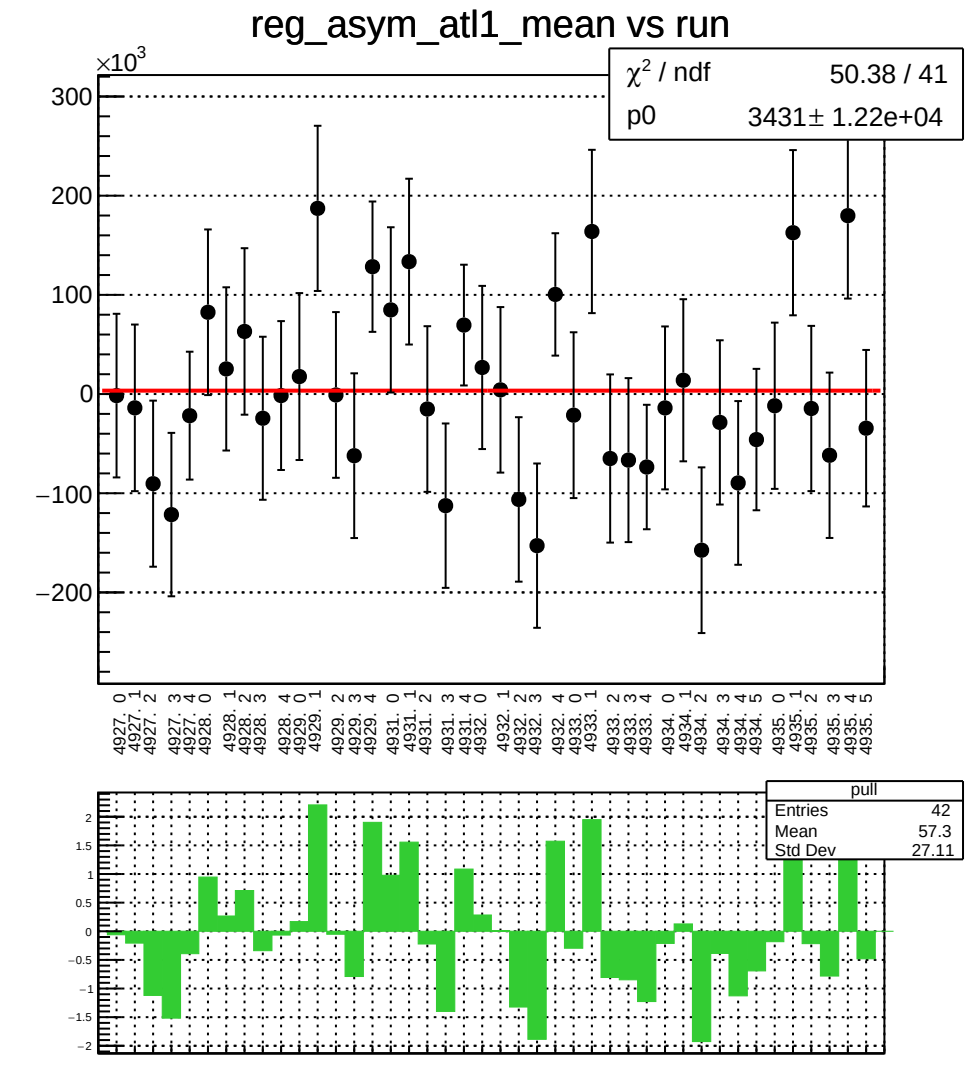

pull1D
Entries 42
Mean −0.004963
Std Dev 0.8437
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

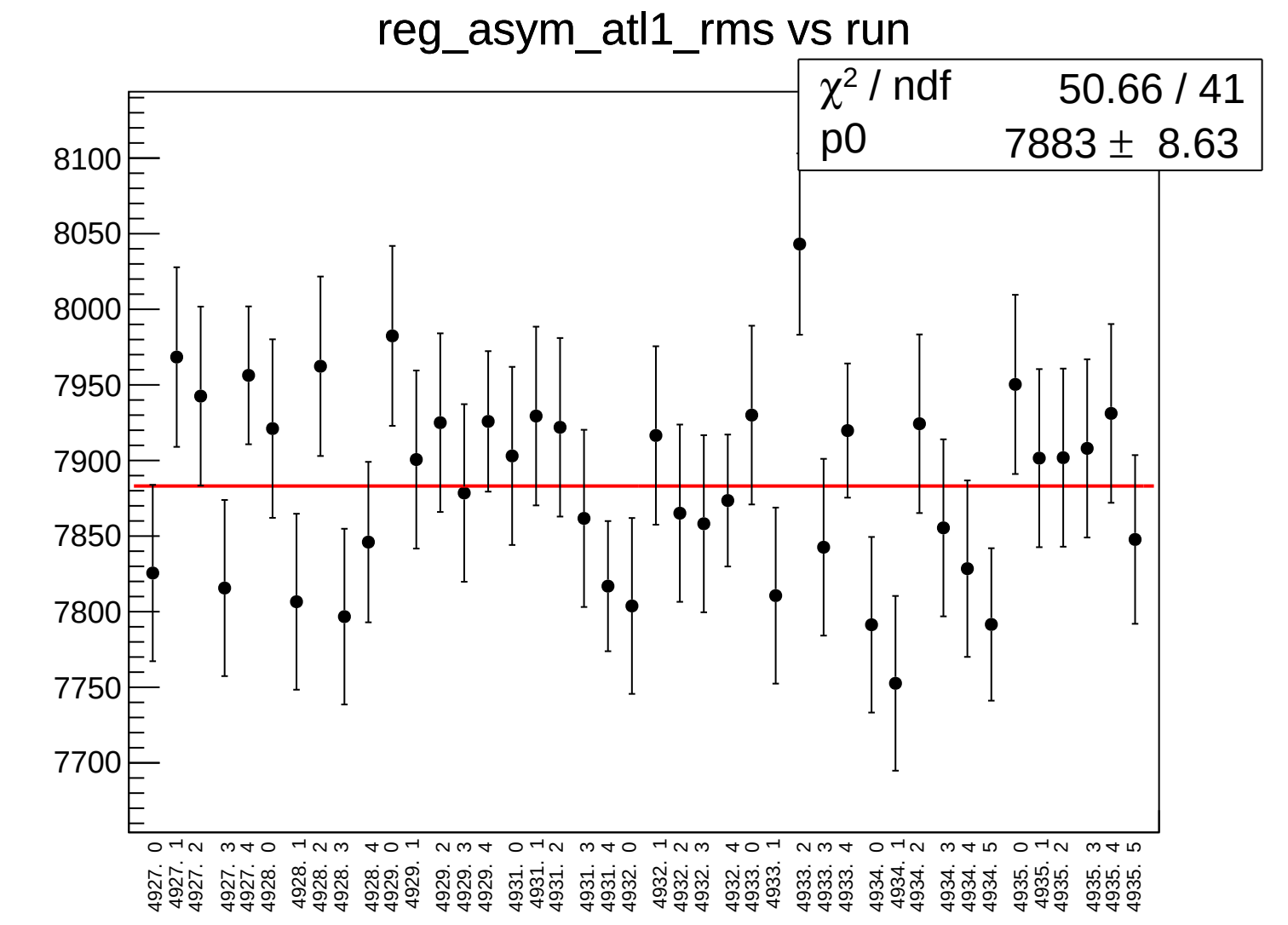

asym_right_agg_avg_rms vs run
χ^2 / ndf 99.74 / 41
p0 358.1 ± 0.392
370
365
360
355
350
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

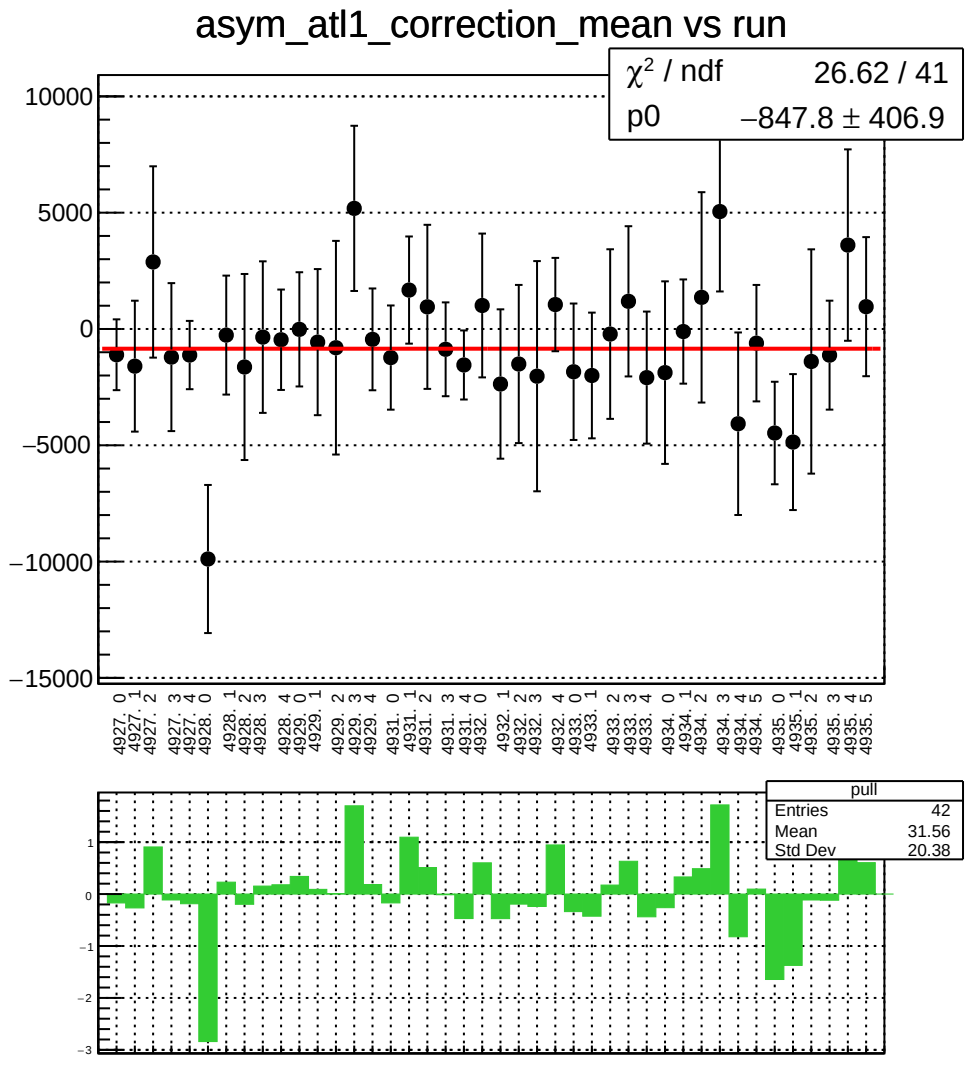

asym_right_agg_dd_mean vs run
χ² / ndf 54.91 / 41
p0 −86.79 ± 57.4
1500
1000
500
0
−500
−1000
−1500
−2000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −692
Std Dev 707.1
2
1
0
−1
−2
−3
−4

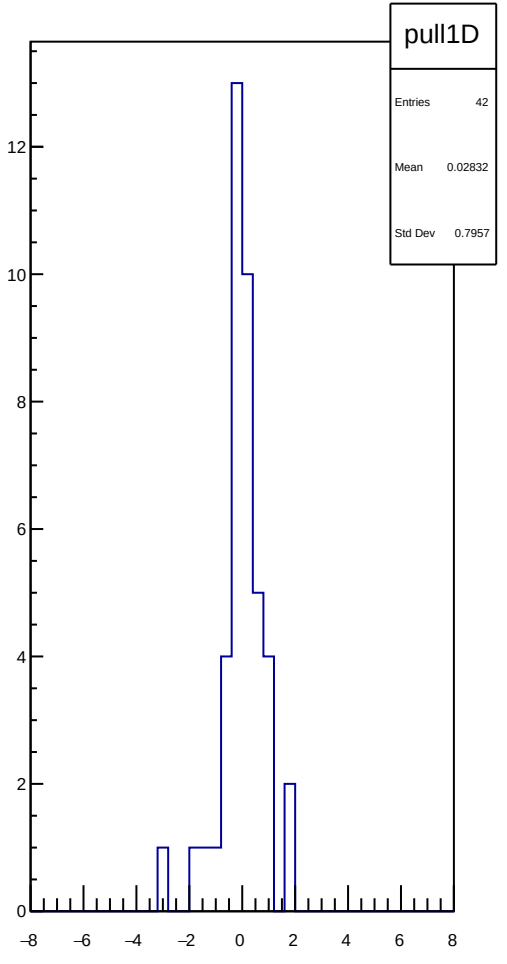

pull1D
Entries 42
Mean −0.004427
Std Dev 1.143
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

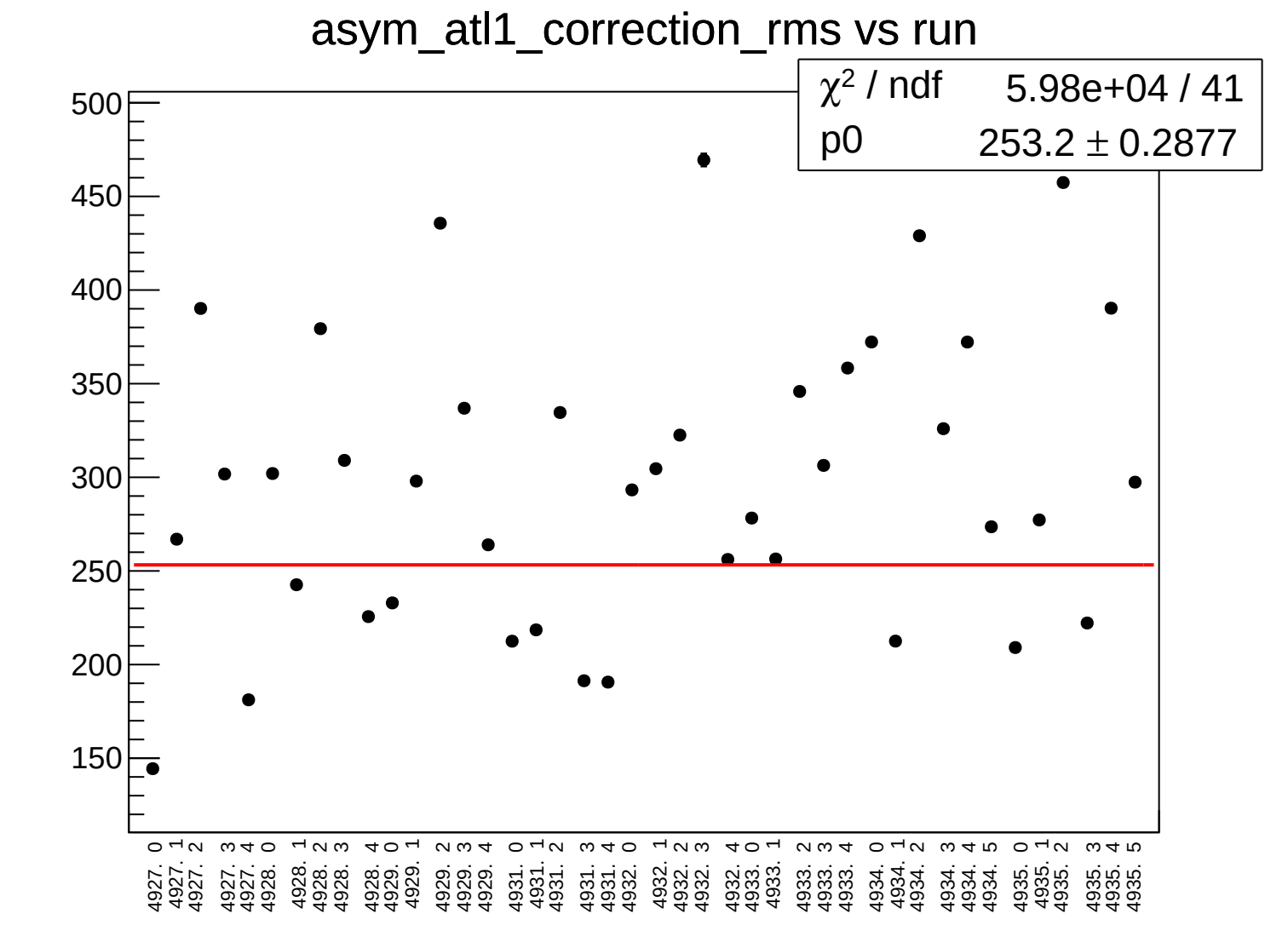

asym_right_agg_dd_rms vs run
χ² / ndf 44.26 / 41
p0 37.07 ± 0.04058
37.8
37.6
37.4
37.2
37
36.8
36.6
36.4
36.2
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

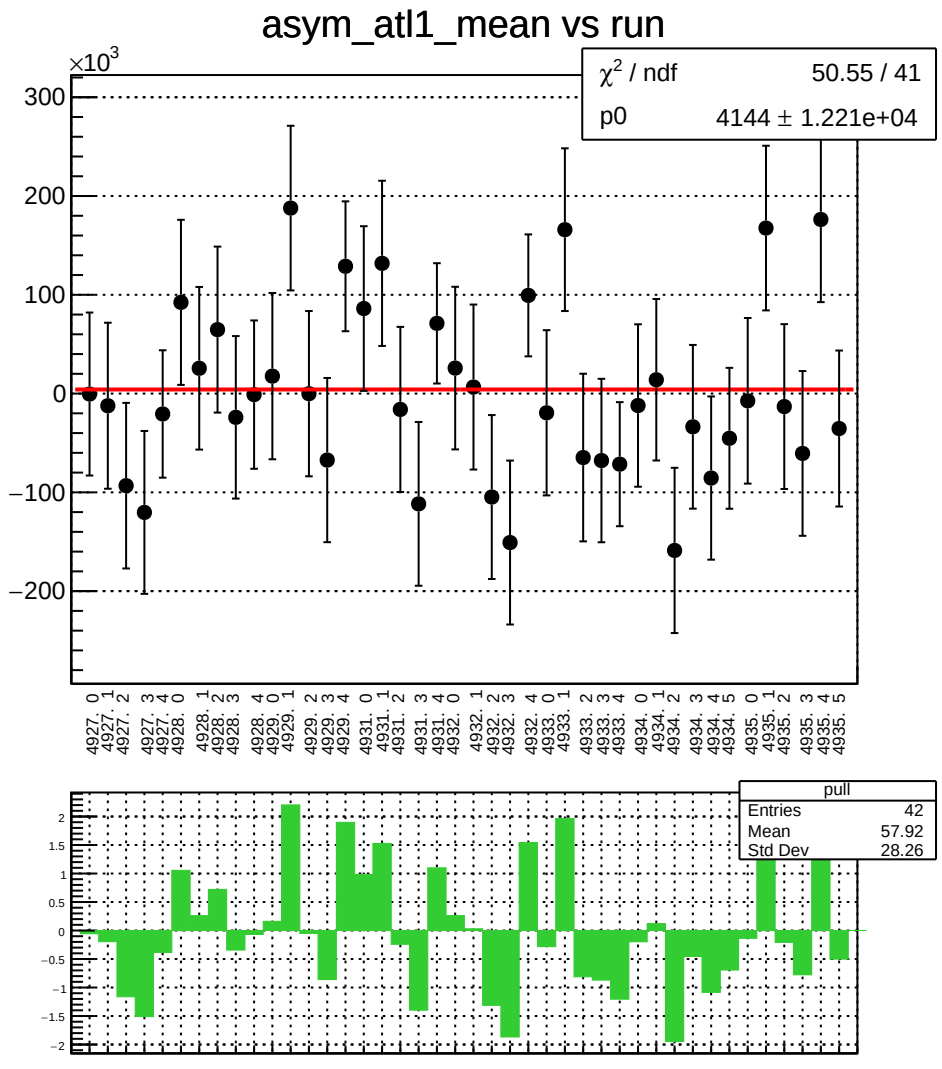

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 50.38 / 41
p0 3431± 1.22e+04
300
200
100
0
−100
−200
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 57.3
Std Dev 27.11
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 42
Mean −0.01816
Std Dev 1.095
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

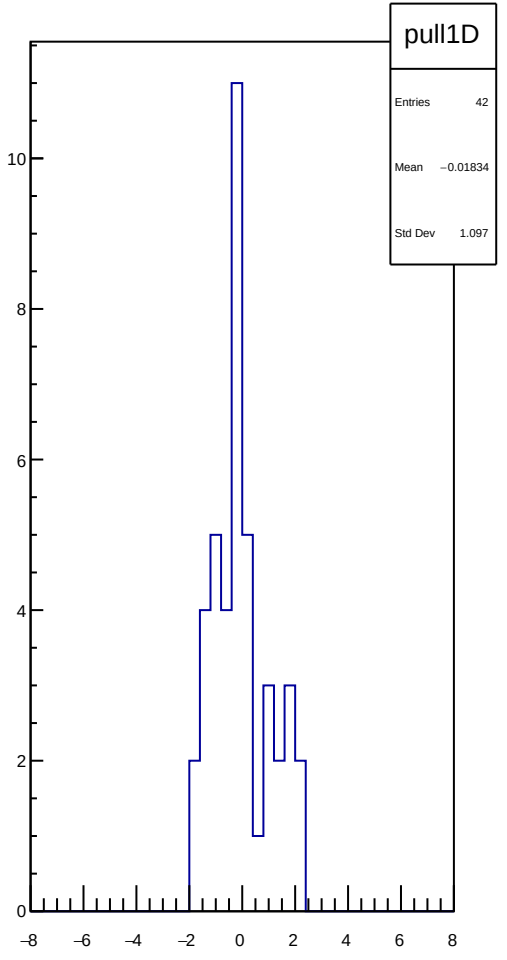

reg_asym_atl1_rms vs run
χ² / ndf 50.66 / 41
p0 7883 ± 8.63
8100
8050
8000
7950
7900
7850
7800
7750
7700
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

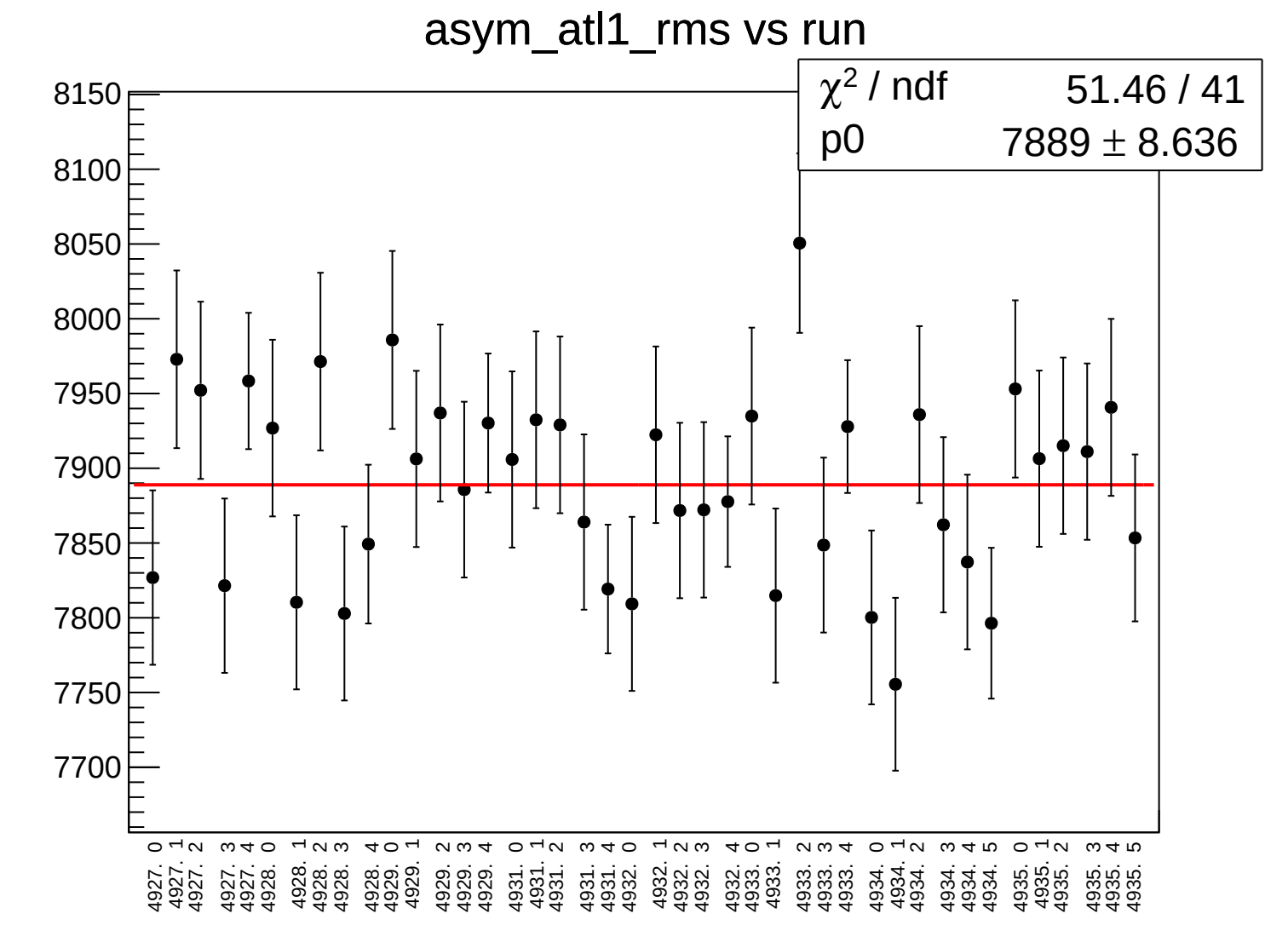

asym_atl1_correction_mean vs run
χ² / ndf 26.62 / 41
p0 −847.8 ± 406.9
10000
5000
0
−5000
−10000
−15000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 31.56
Std Dev 20.38
1
0
−1
−2
−3

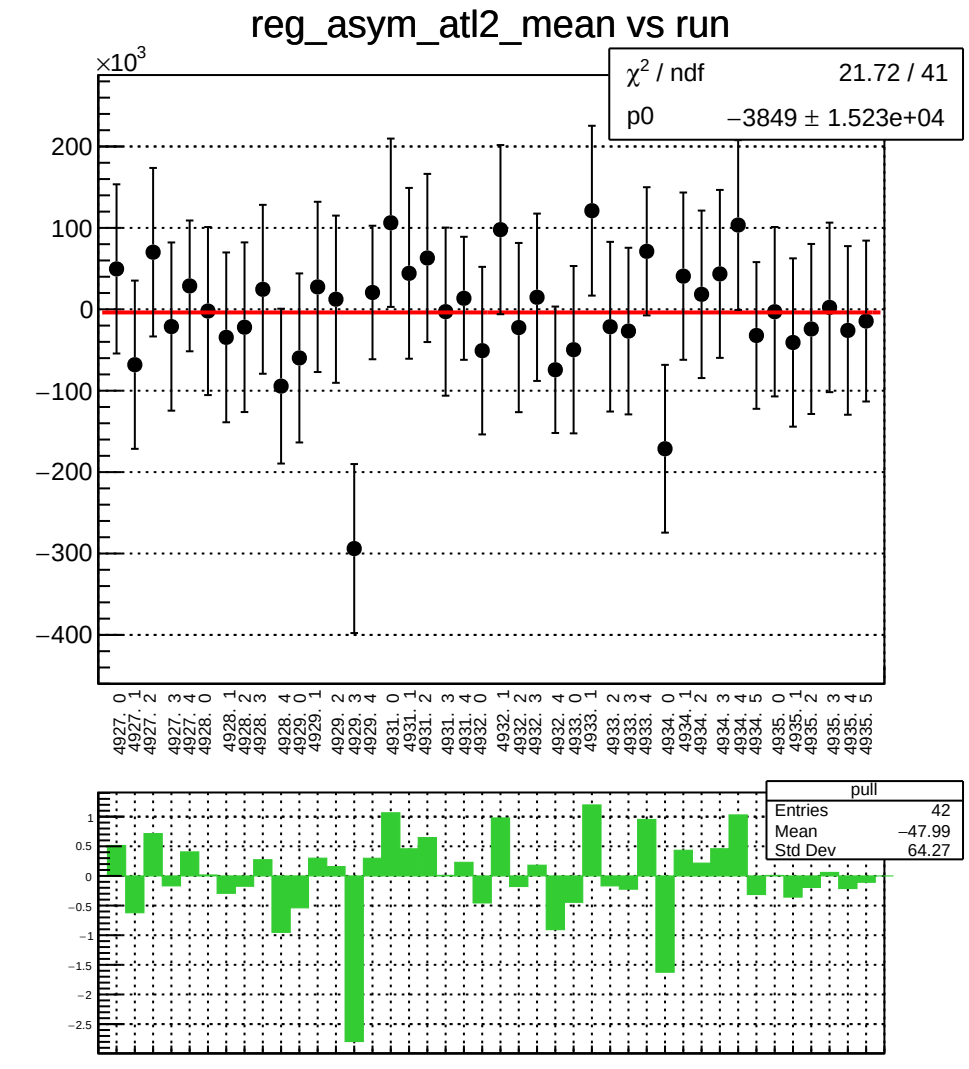

pull1D
Entries 42
Mean 0.02832
Std Dev 0.7957
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

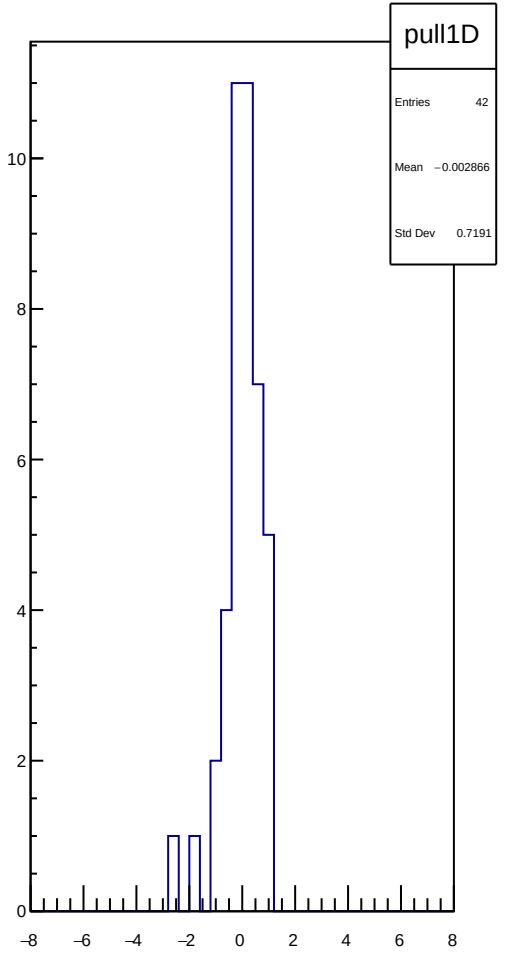

asym_atl1_correction_rms vs run
χ² / ndf 5.98e+04 / 41
p0 253.2 ± 0.2877
500
450
400
350
300
250
200
150
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

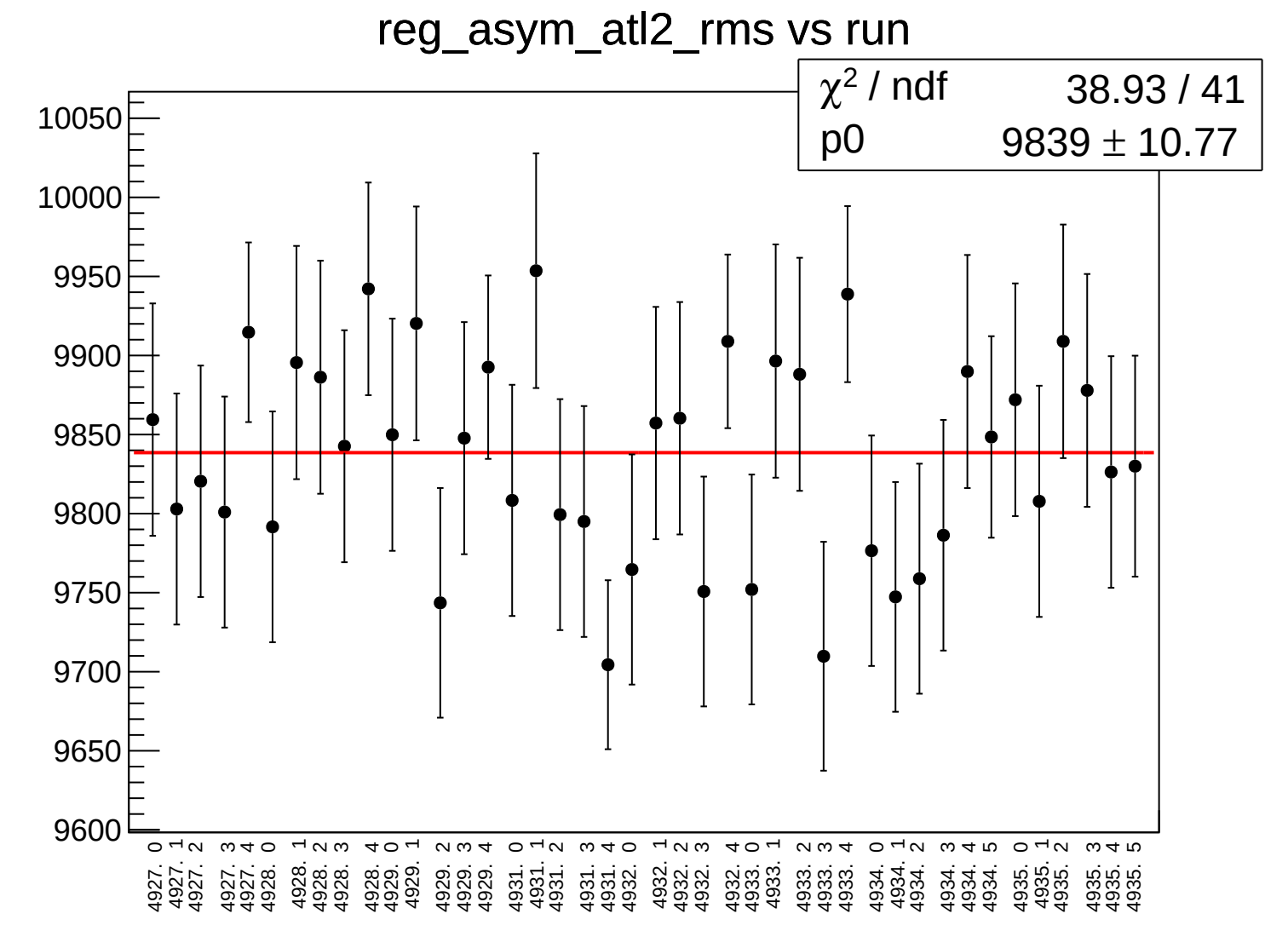

asym_atl1_mean vs run
×10^3
χ² / ndf 50.55 / 41
p0 4144 ± 1.221e+04
300
200
100
0
−100
−200
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 57.92
Std Dev 28.26
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

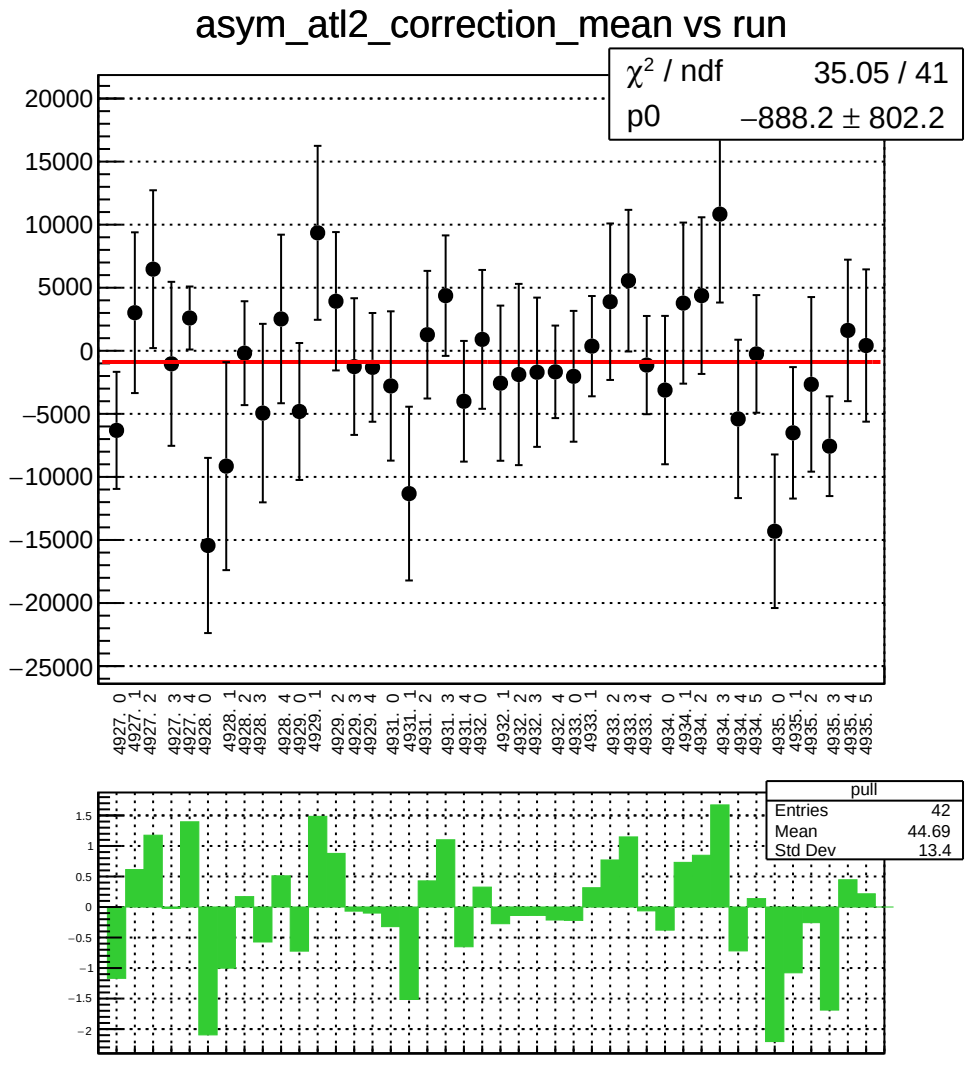

pull1D
Entries 42
Mean −0.01834
Std Dev 1.097
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

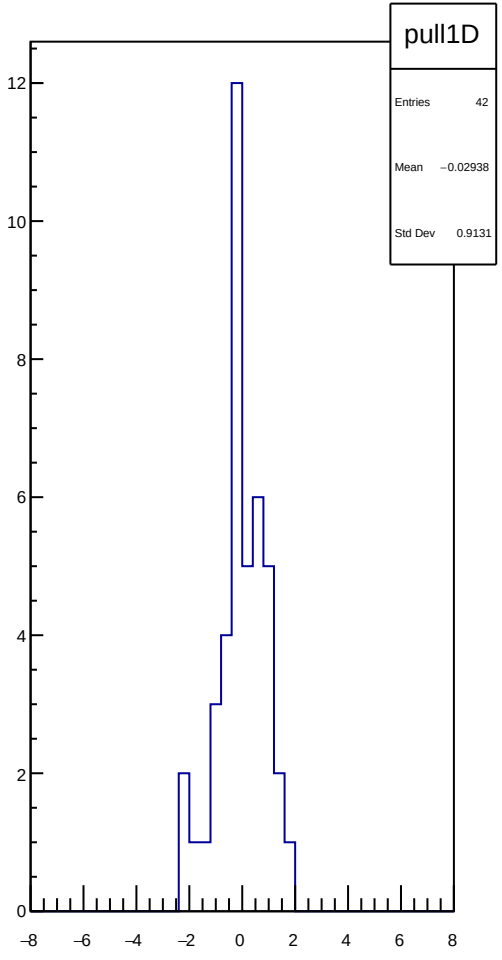

asym_atl1_rms vs run
χ² / ndf 51.46 / 41
p0 7889 ± 8.636
8150
8100
8050
8000
7950
7900
7850
7800
7750
7700
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

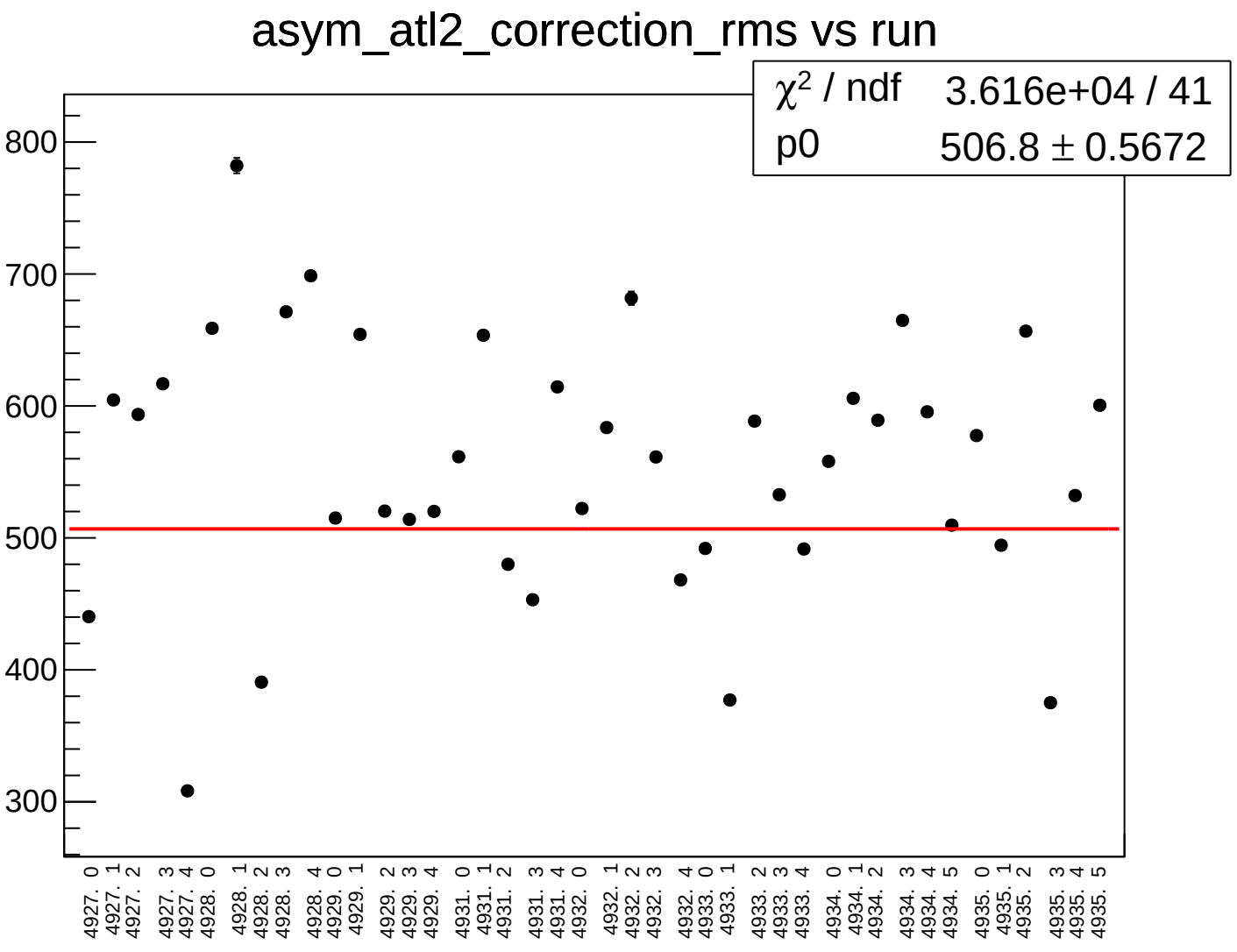

reg_asym_atl2_mean vs run
×10^3
χ² / ndf 21.72 / 41
p0 −3849 ± 1.523e+04
200
100
0
−100
−200
−300
−400
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −47.99
Std Dev 64.27
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

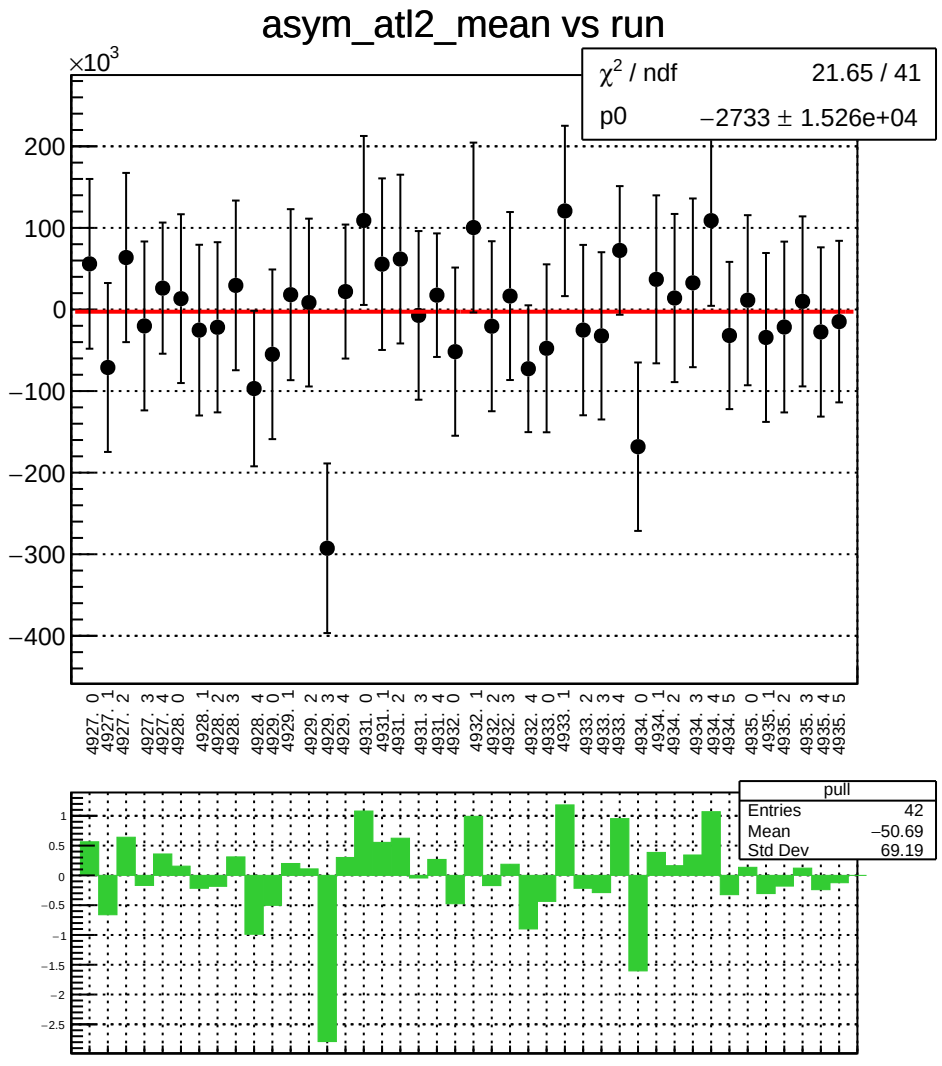

pull1D
Entries 42
Mean −0.002866
Std Dev 0.7191
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

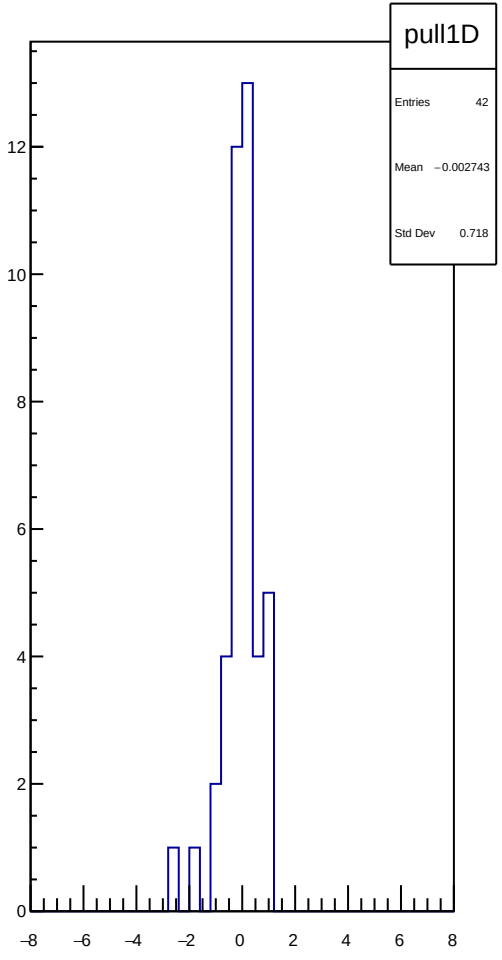

reg_asym_atl2_rms vs run
χ² / ndf 38.93 / 41
p0 9839 ± 10.77
10050
10000
9950
9900
9850
9800
9750
9700
9650
9600
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

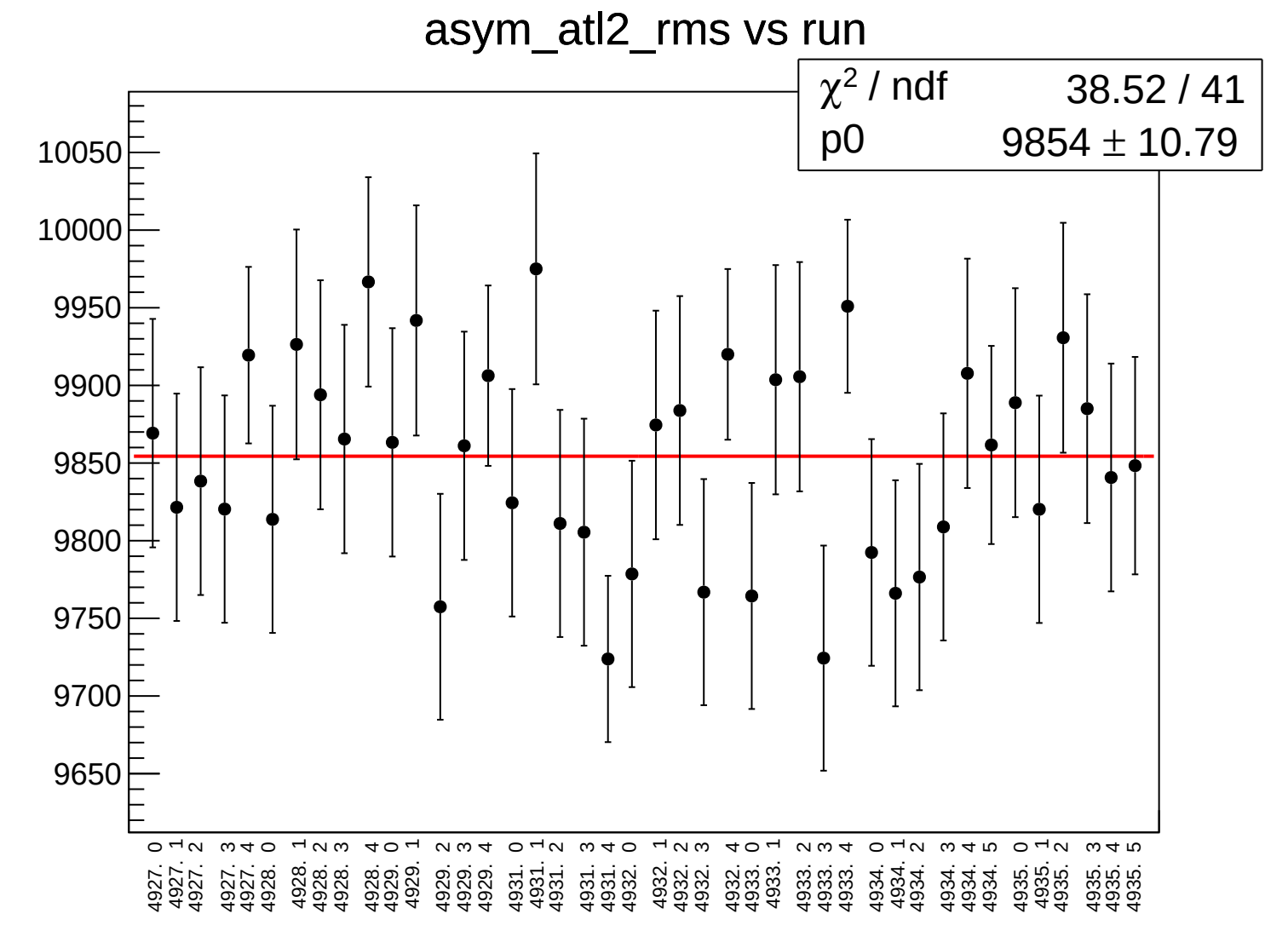

asym_atl2_correction_mean vs run
χ² / ndf 35.05 / 41
p0 −888.2 ± 802.2
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 44.69
Std Dev 13.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2

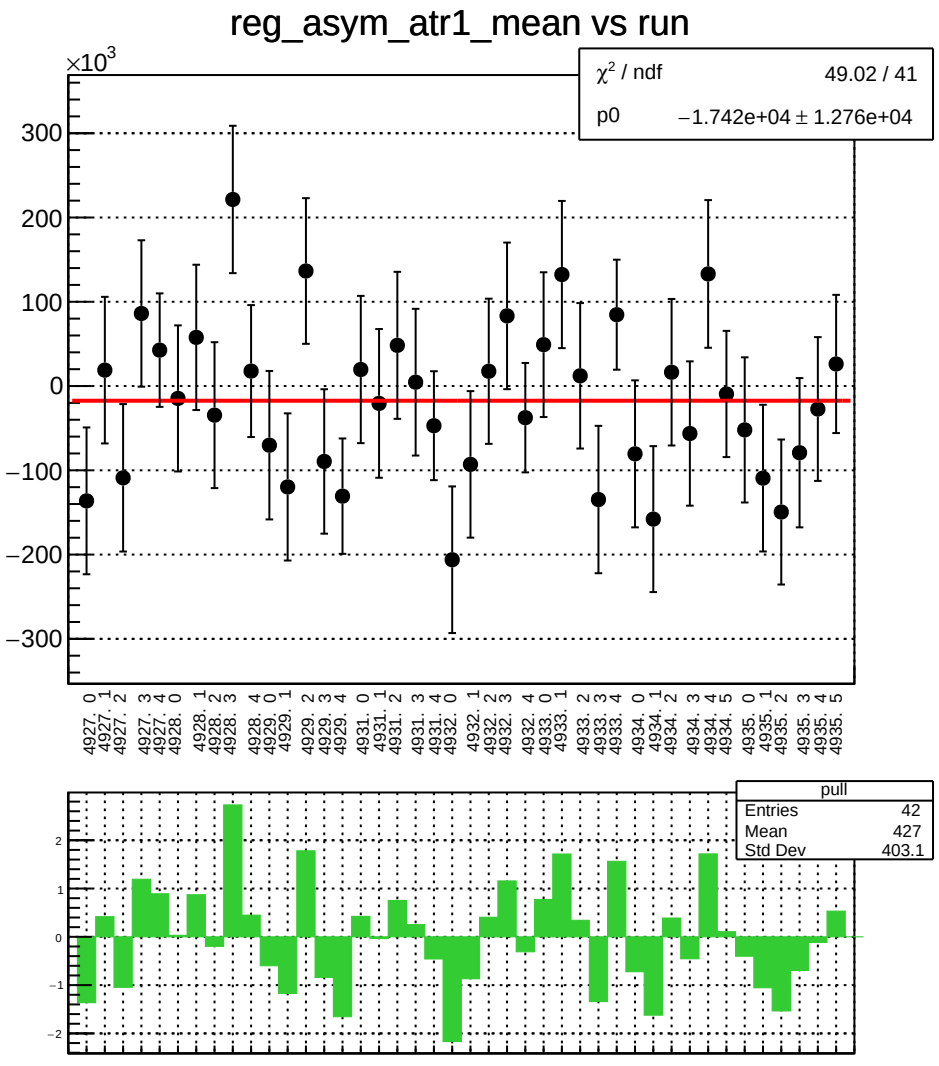

pull1D
Entries 42
Mean −0.02938
Std Dev 0.9131
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

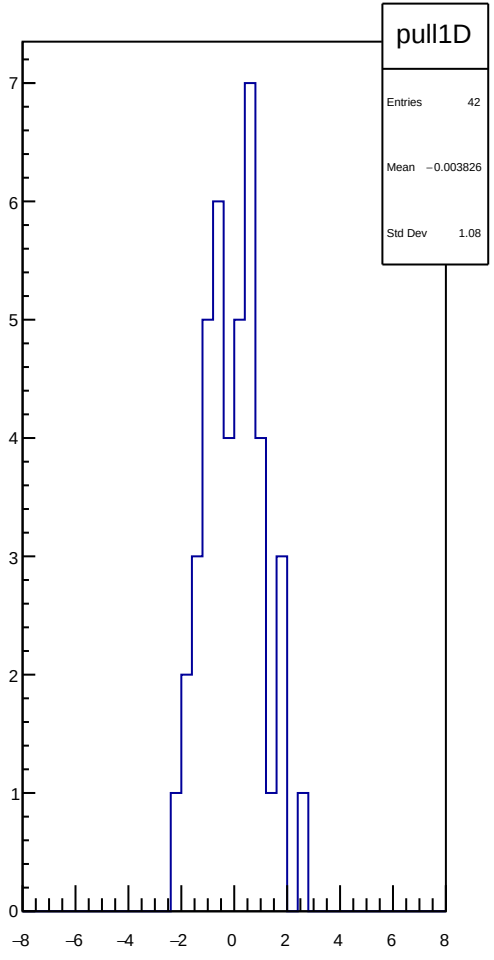

asym_atl2_correction_rms vs run
χ² / ndf 3.616e+04 / 41
p0 506.8 ± 0.5672
800
700
600
500
400
300
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

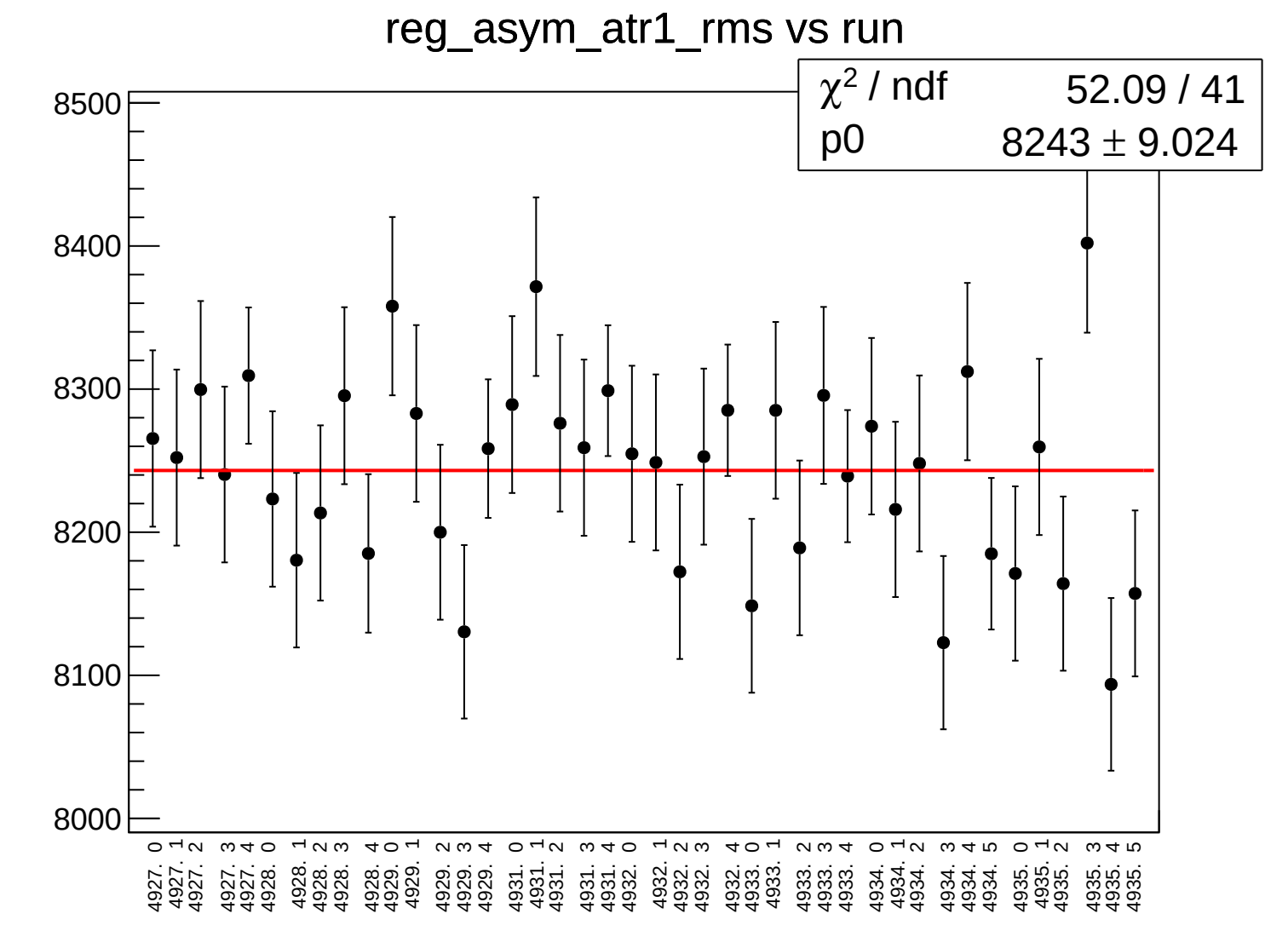

asym_atl2_mean vs run
×10^3
χ² / ndf 21.65 / 41
p0 −2733 ± 1.526e+04
200
100
0
−100
−200
−300
−400
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −50.69
Std Dev 69.19
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

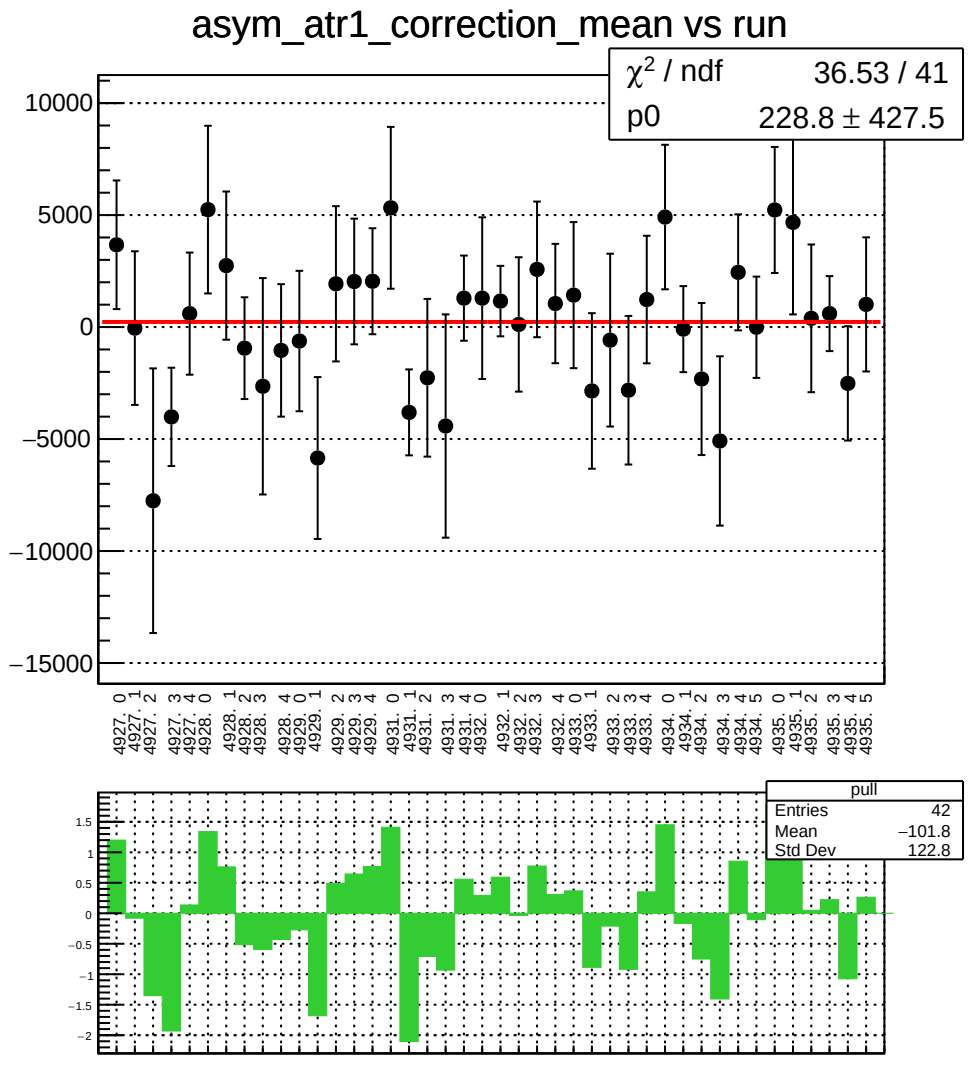

pull1D
Entries 42
Mean −0.002743
Std Dev 0.718
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

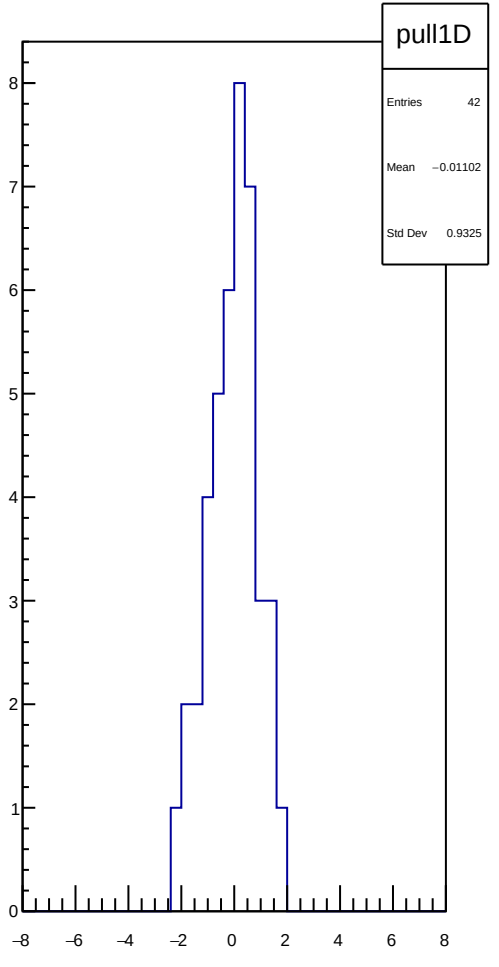

asym_atl2_rms vs run
χ² / ndf 38.52 / 41
p0 9854 ± 10.79
10050
10000
9950
9900
9850
9800
9750
9700
9650
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

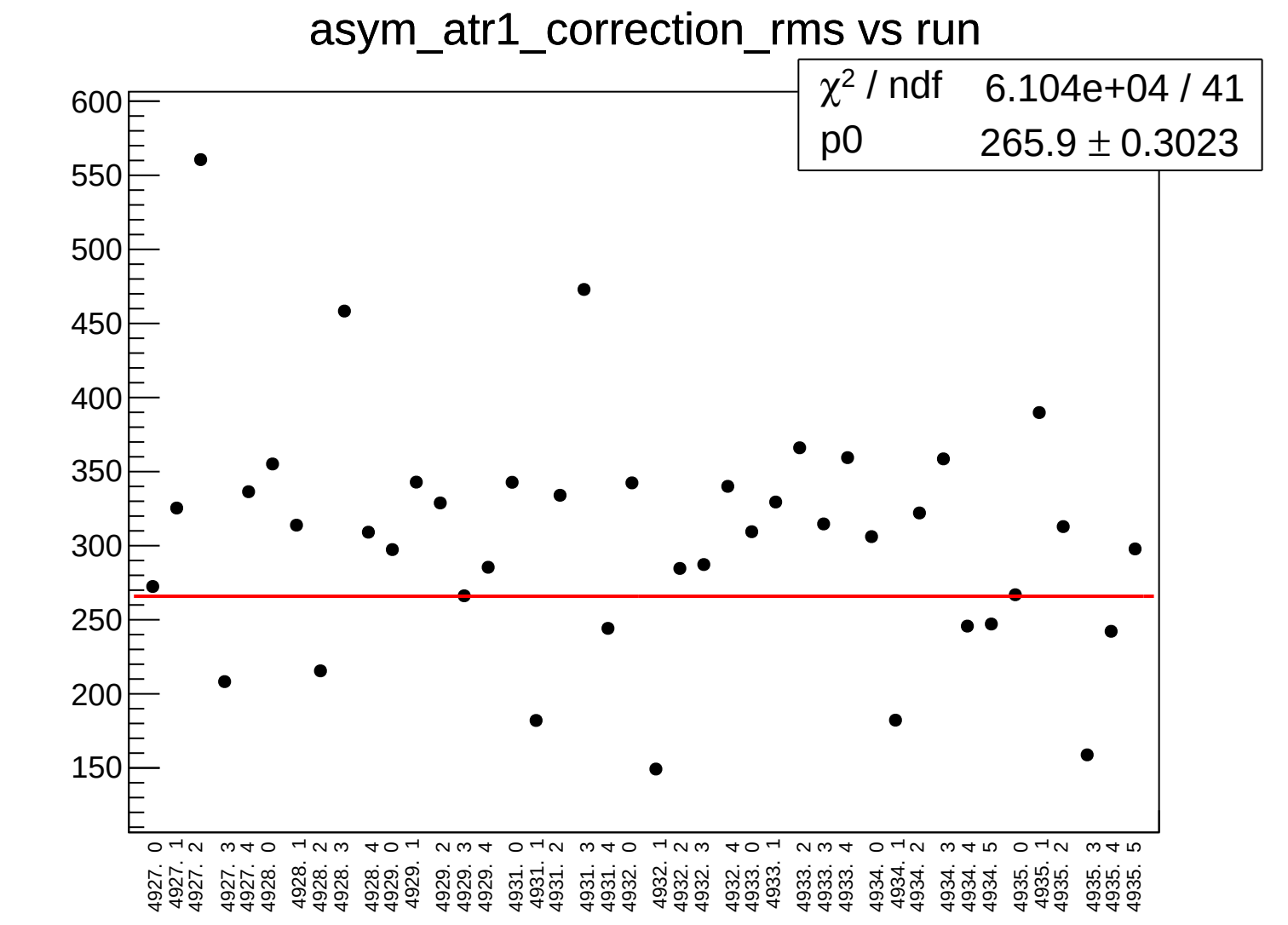

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 49.02 / 41
p0 −1.742e+04 ± 1.276e+04
300
200
100
0
−100
−200
−300
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 427
Std Dev 403.1
2
1
0
−1
−2

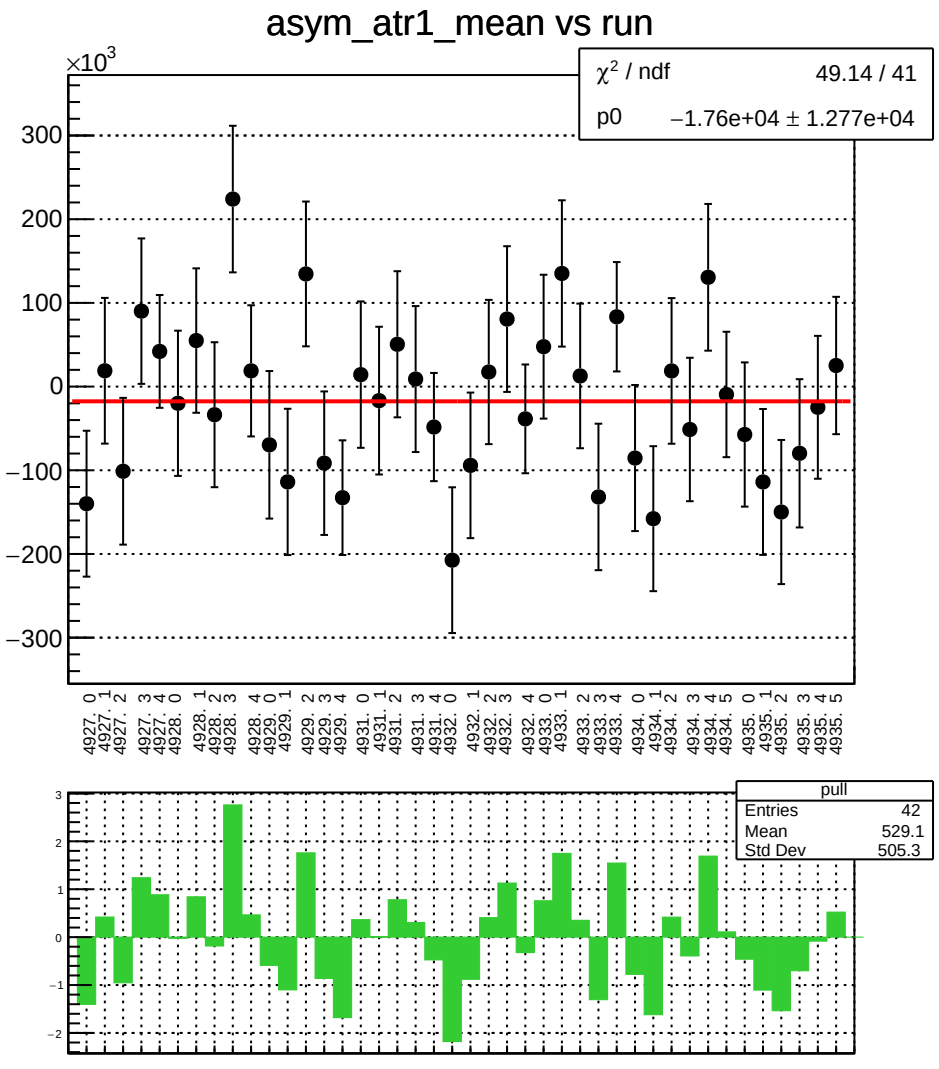

pull1D
Entries 42
Mean −0.003826
Std Dev 1.08
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

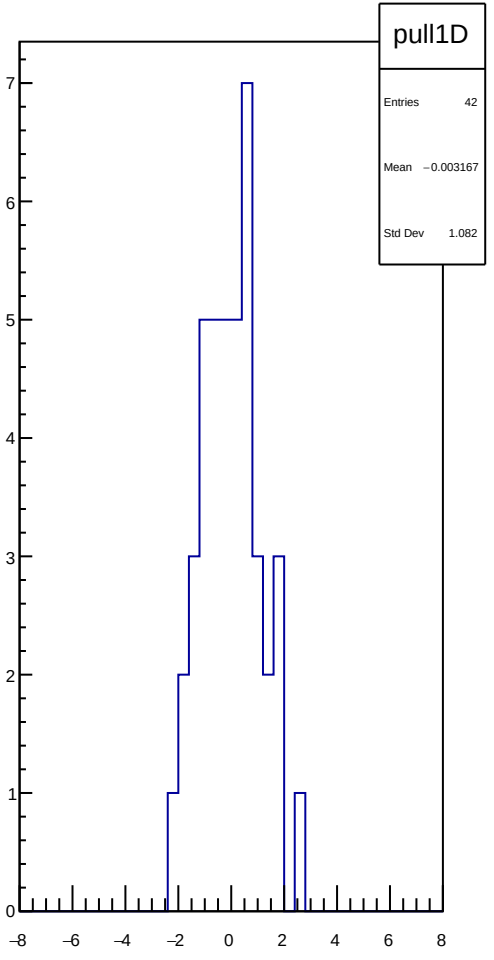

reg_asym_atr1_rms vs run
χ² / ndf 52.09 / 41
p0 8243 ± 9.024
8500
8400
8300
8200
8100
8000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

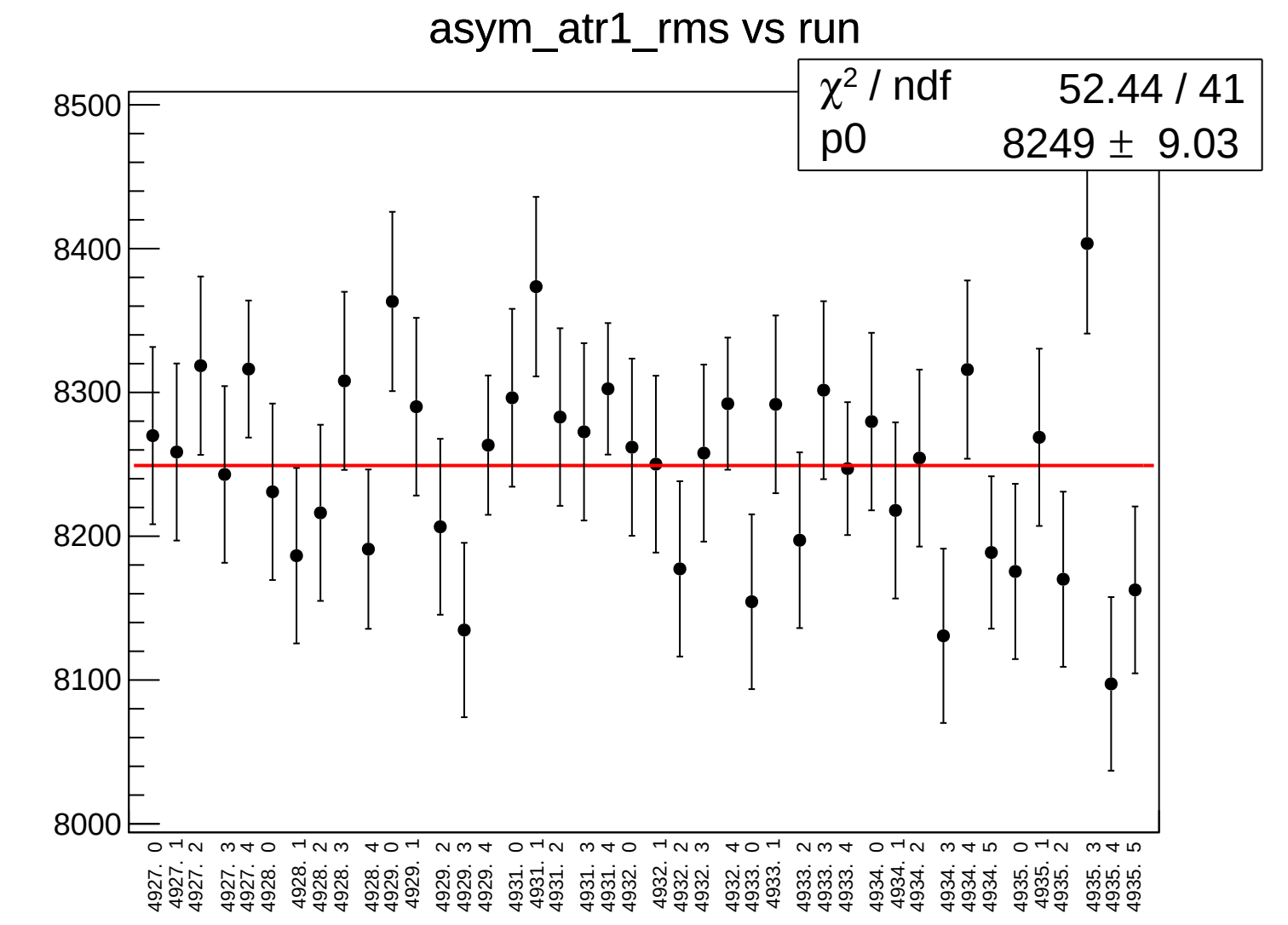

asym_atr1_correction_mean vs run
χ² / ndf 36.53 / 41
p0 228.8 ± 427.5
10000
5000
0
−5000
−10000
−15000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −101.8
Std Dev 122.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2

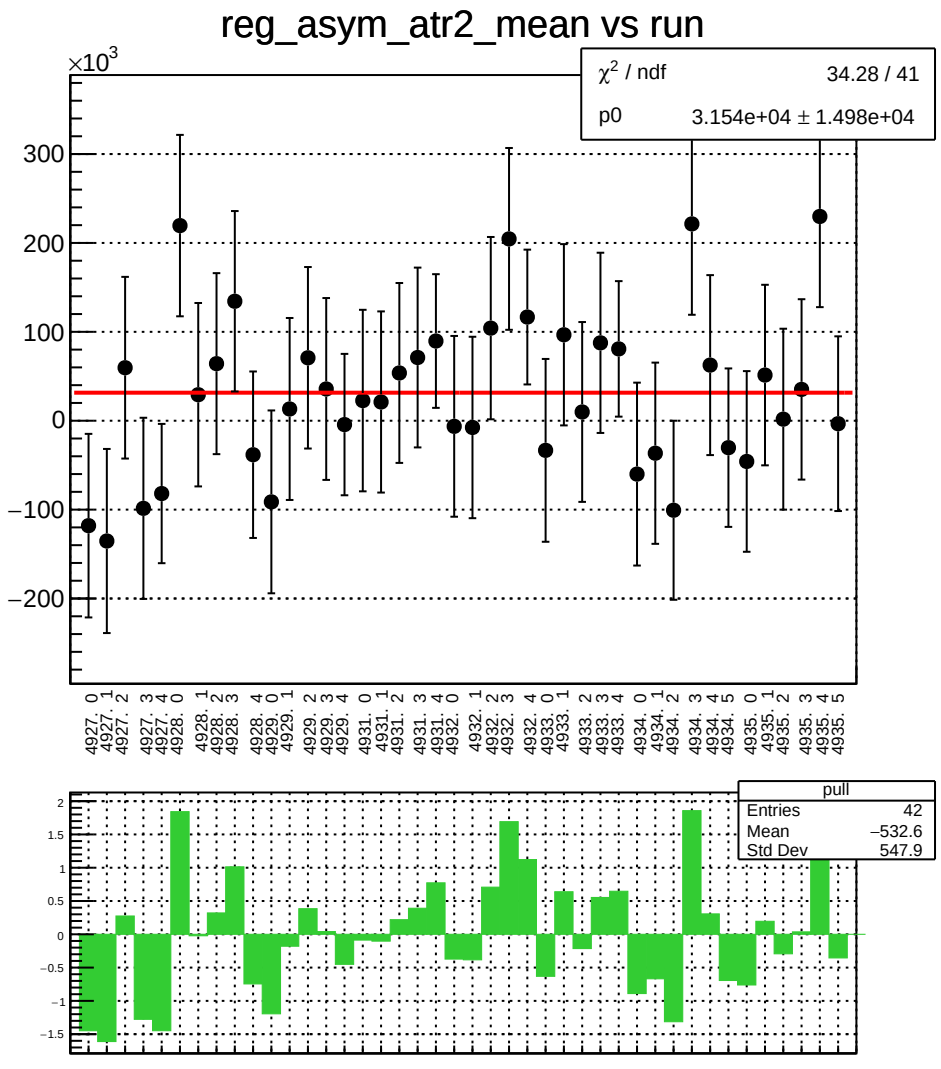

pull1D
Entries 42
Mean −0.01102
Std Dev 0.9325
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

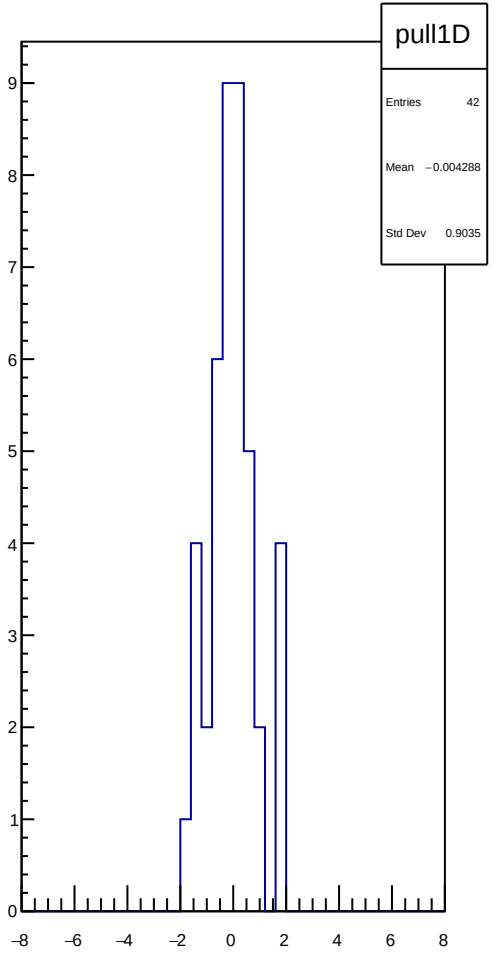

asym_atr1_correction_rms vs run
χ² / ndf 6.104e+04 / 41
p0 265.9 ± 0.3023
600
550
500
450
400
350
300
250
200
150
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

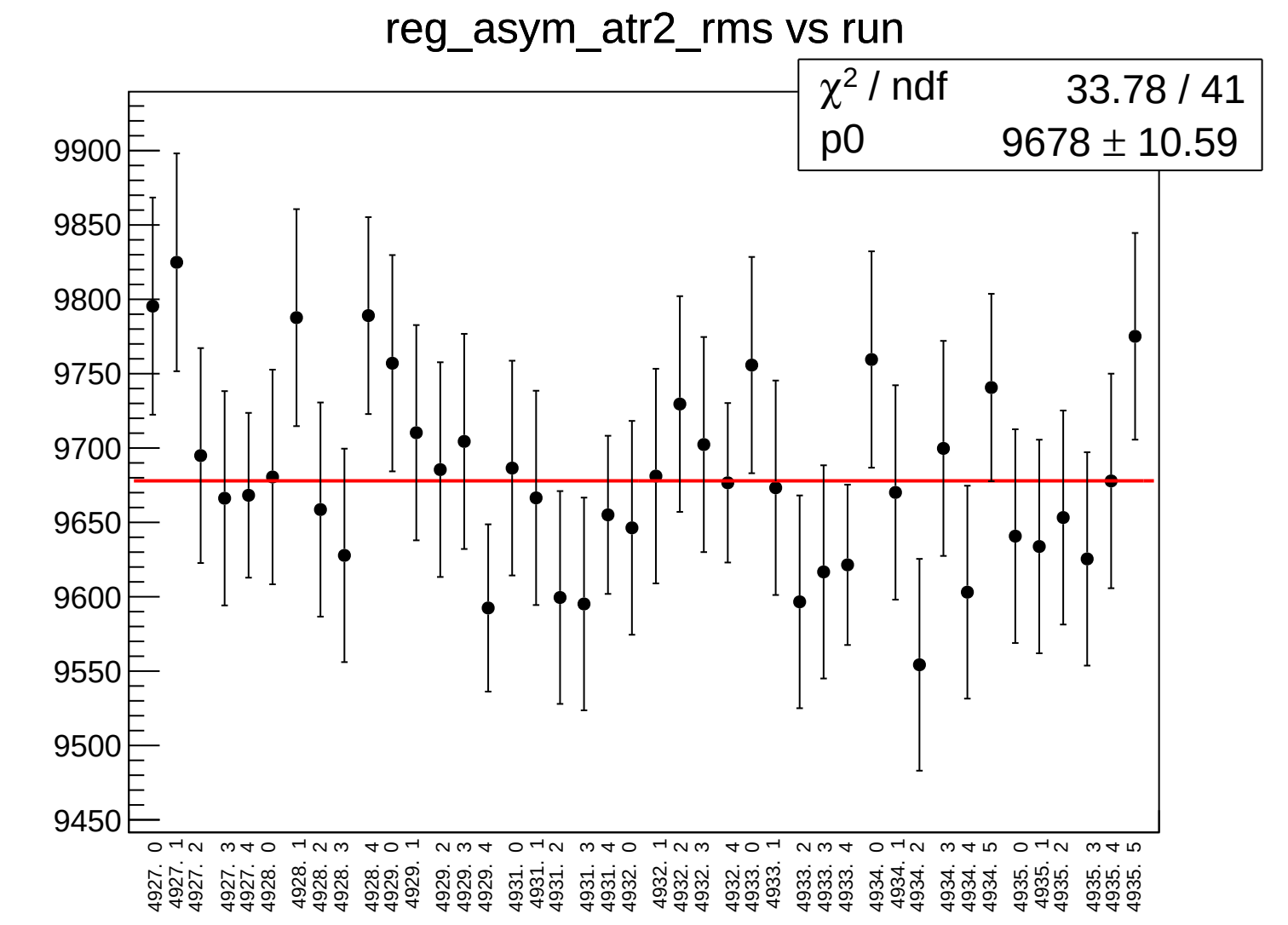

asym_atr1_mean vs run
×10^3
χ² / ndf 49.14 / 41
p0 −1.76e+04 ± 1.277e+04
300
200
100
0
−100
−200
−300
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 529.1
Std Dev 505.3
3
2
1
0
−1
−2

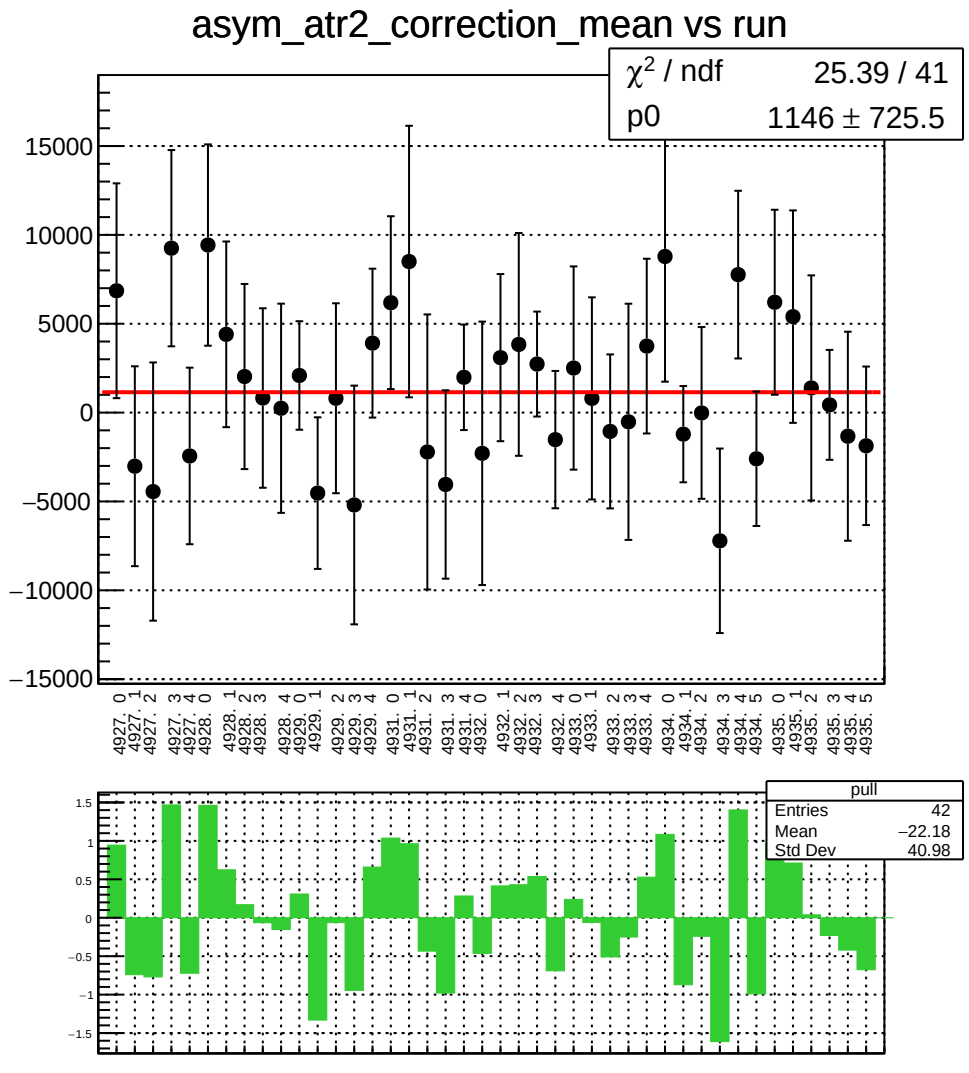

pull1D
Entries 42
Mean −0.003167
Std Dev 1.082
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

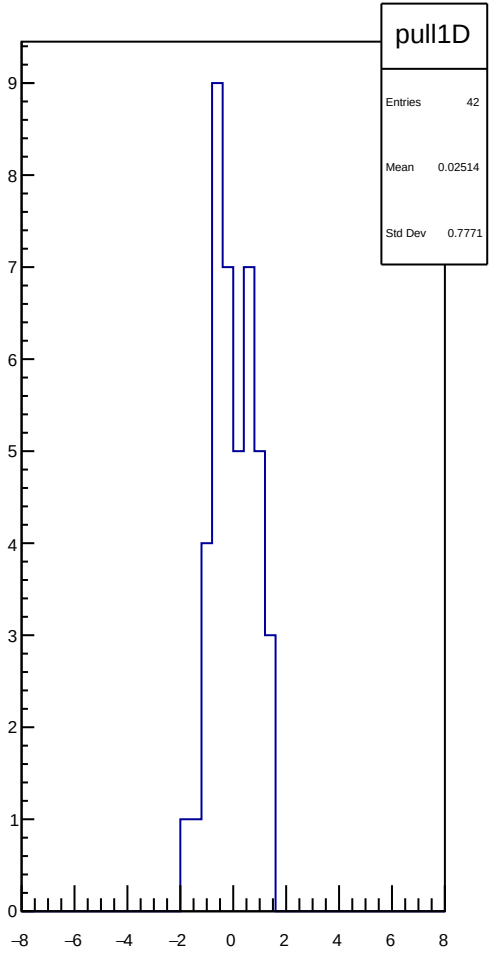

asym_atr1_rms vs run
χ² / ndf 52.44 / 41
p0 8249 ± 9.03
8500
8400
8300
8200
8100
8000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

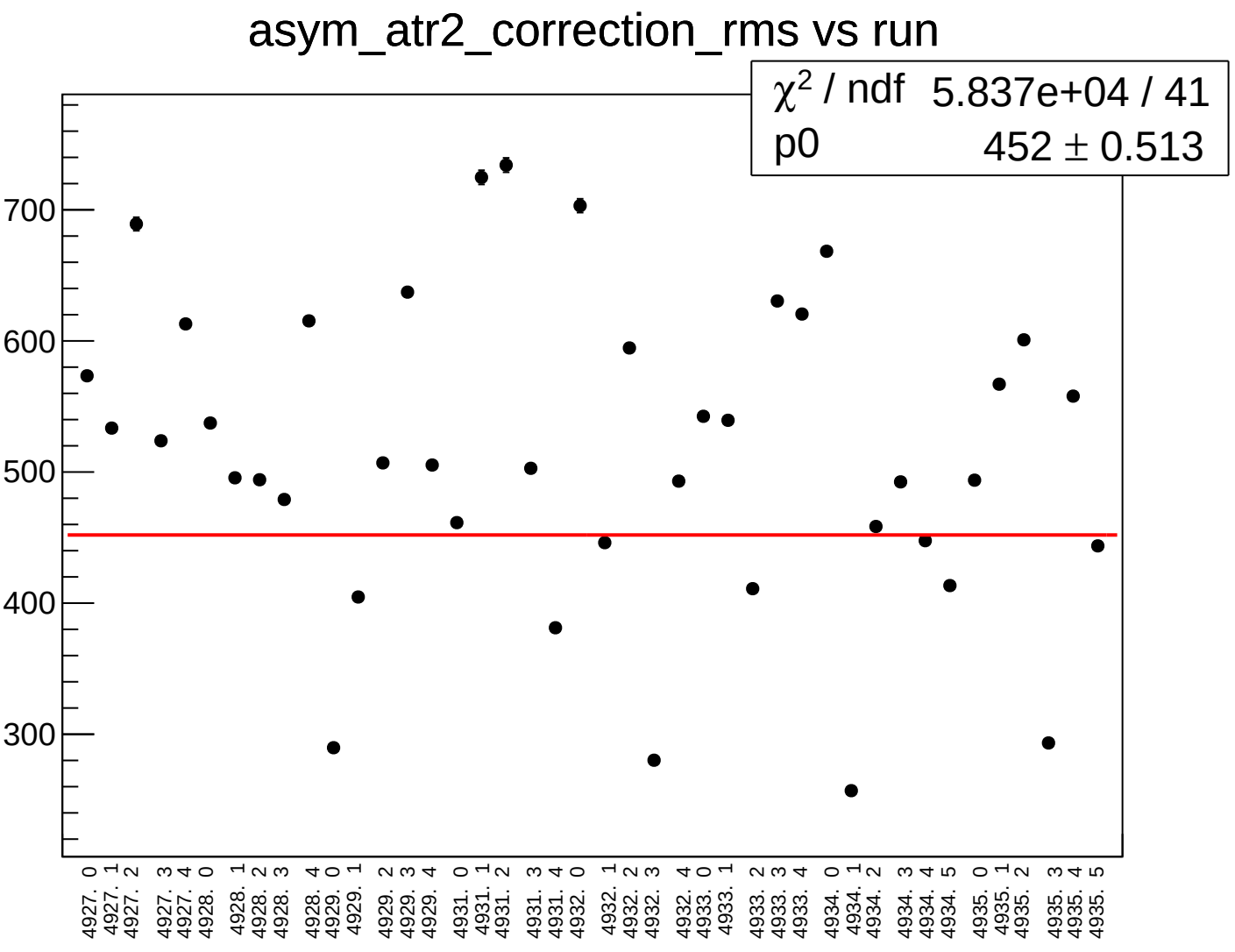

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 34.28 / 41
p0 3.154e+04 ± 1.498e+04
300
200
100
0
−100
−200
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −532.6
Std Dev 547.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

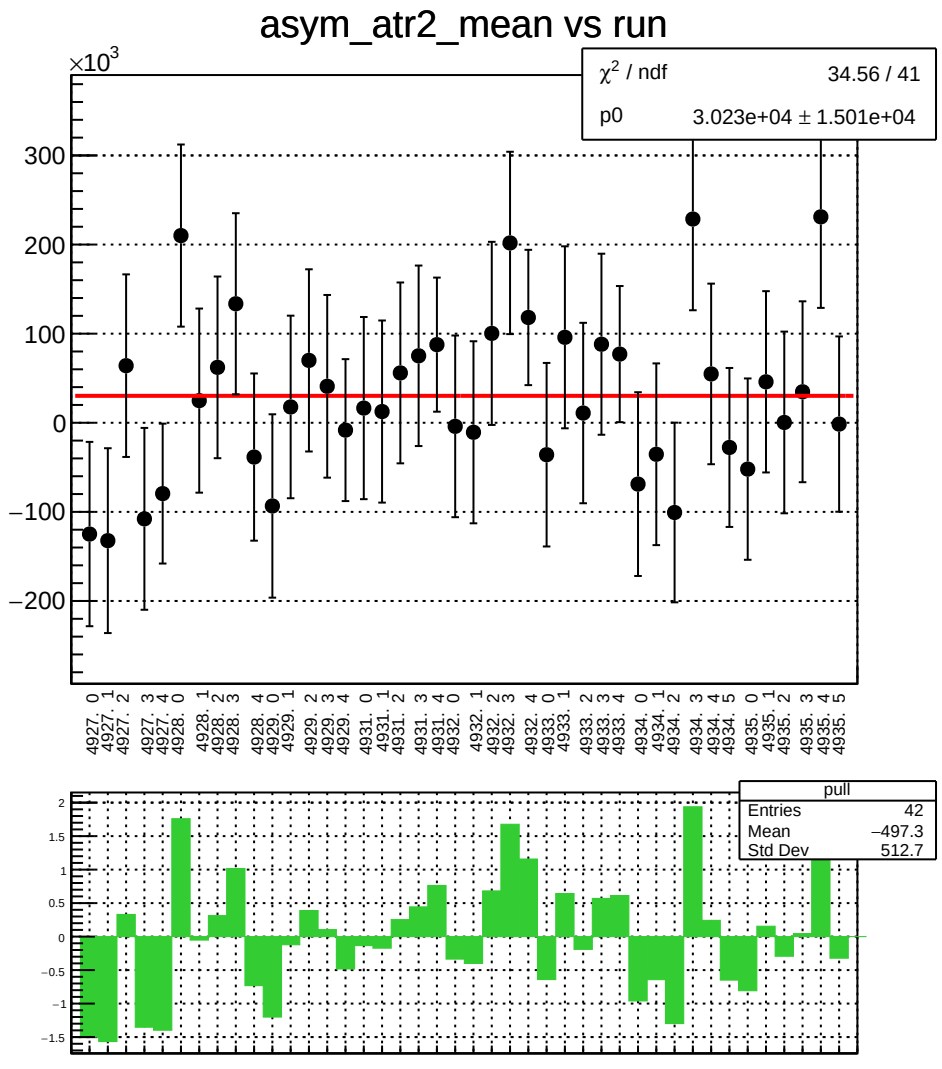

pull1D
Entries 42
Mean −0.004288
Std Dev 0.9035
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

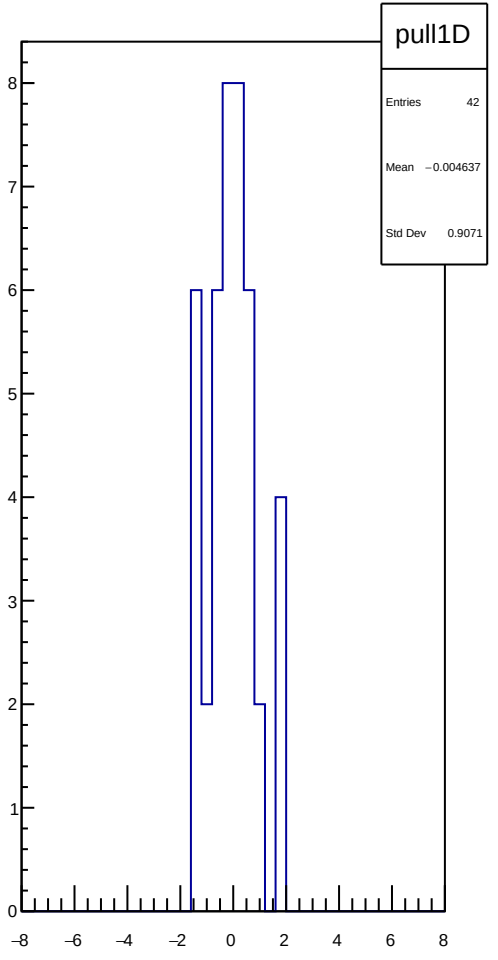

reg_asym_atr2_rms vs run
χ² / ndf 33.78 / 41
p0 9678 ± 10.59
9900
9850
9800
9750
9700
9650
9600
9550
9500
9450
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

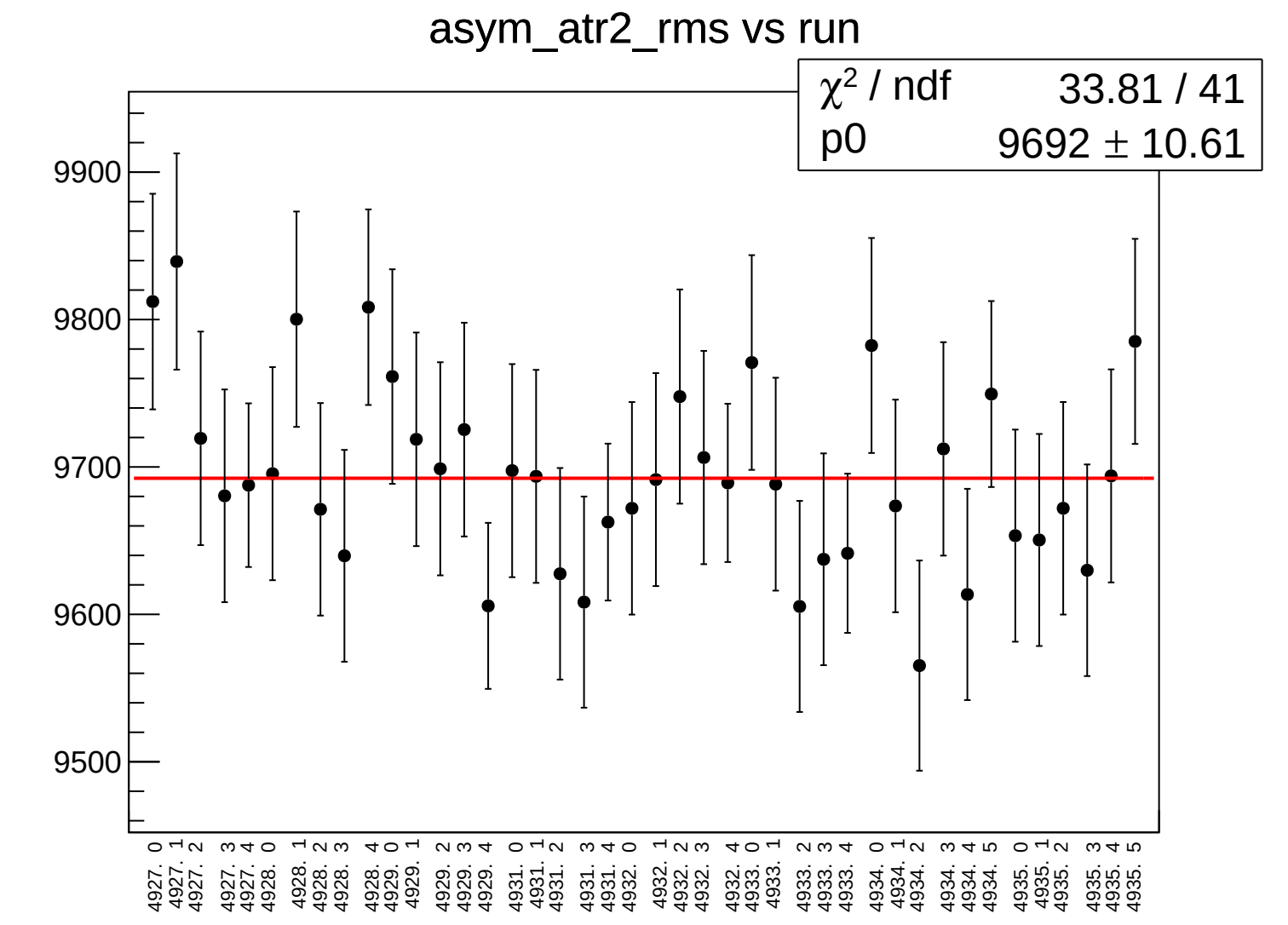

asym_atr2_correction_mean vs run
χ² / ndf 25.39 / 41
p0 1146 ± 725.5
15000
10000
5000
0
−5000
−10000
−15000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −22.18
Std Dev 40.98
1.5
1
0.5
0
−0.5
−1
−1.5

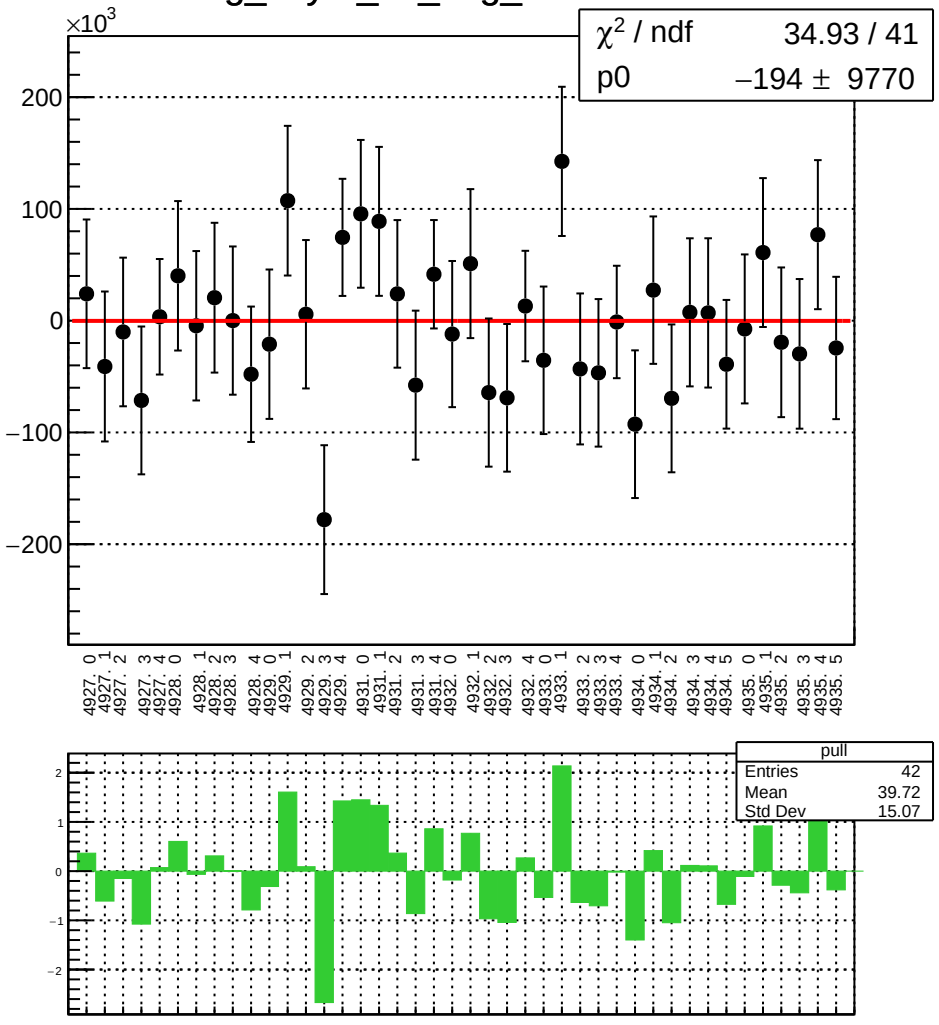

pull1D
Entries 42
Mean 0.02514
Std Dev 0.7771
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

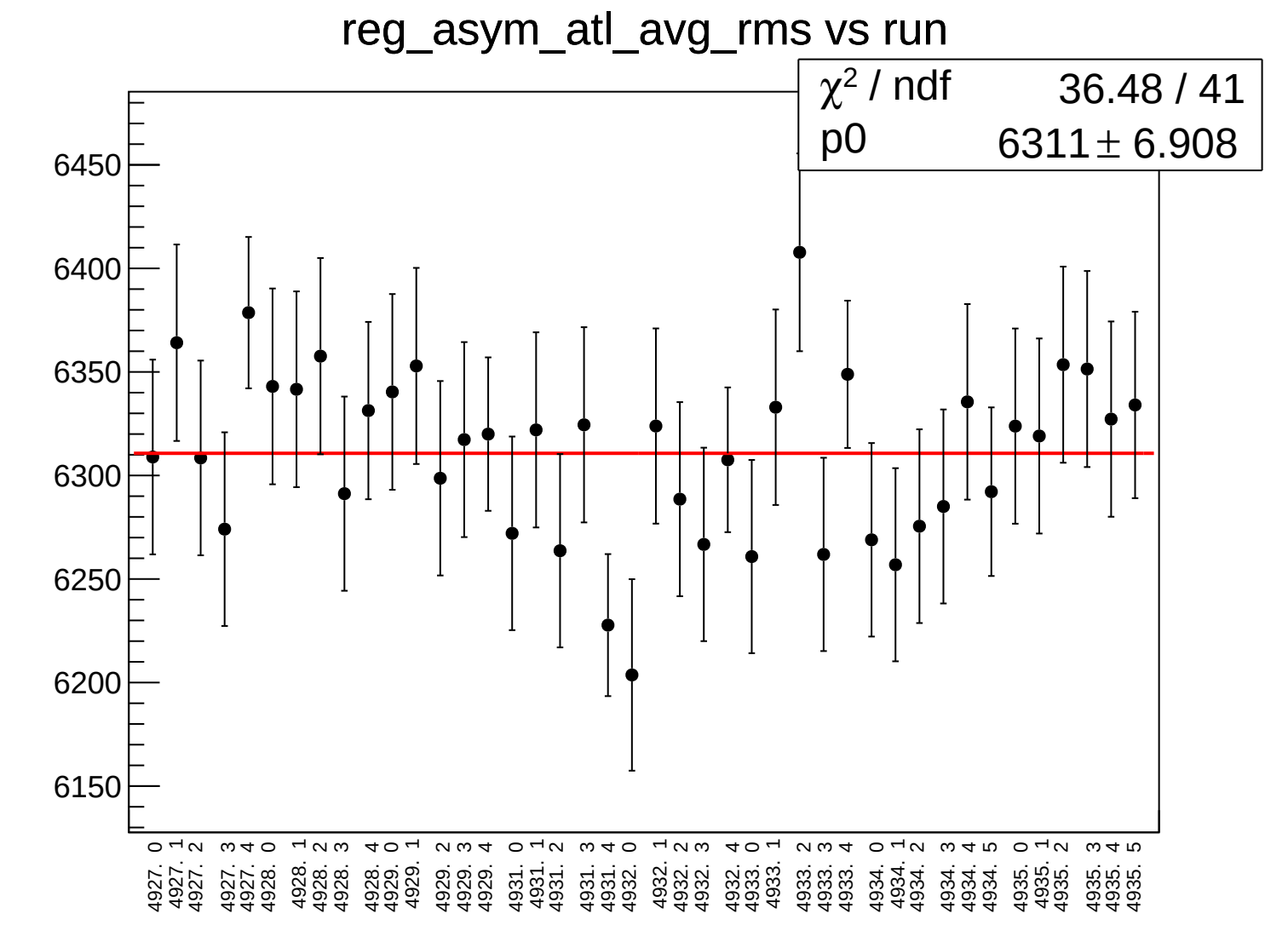

asym_atr2_correction_rms vs run
χ² / ndf 5.837e+04 / 41
p0 452 ± 0.513
700
600
500
400
300
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

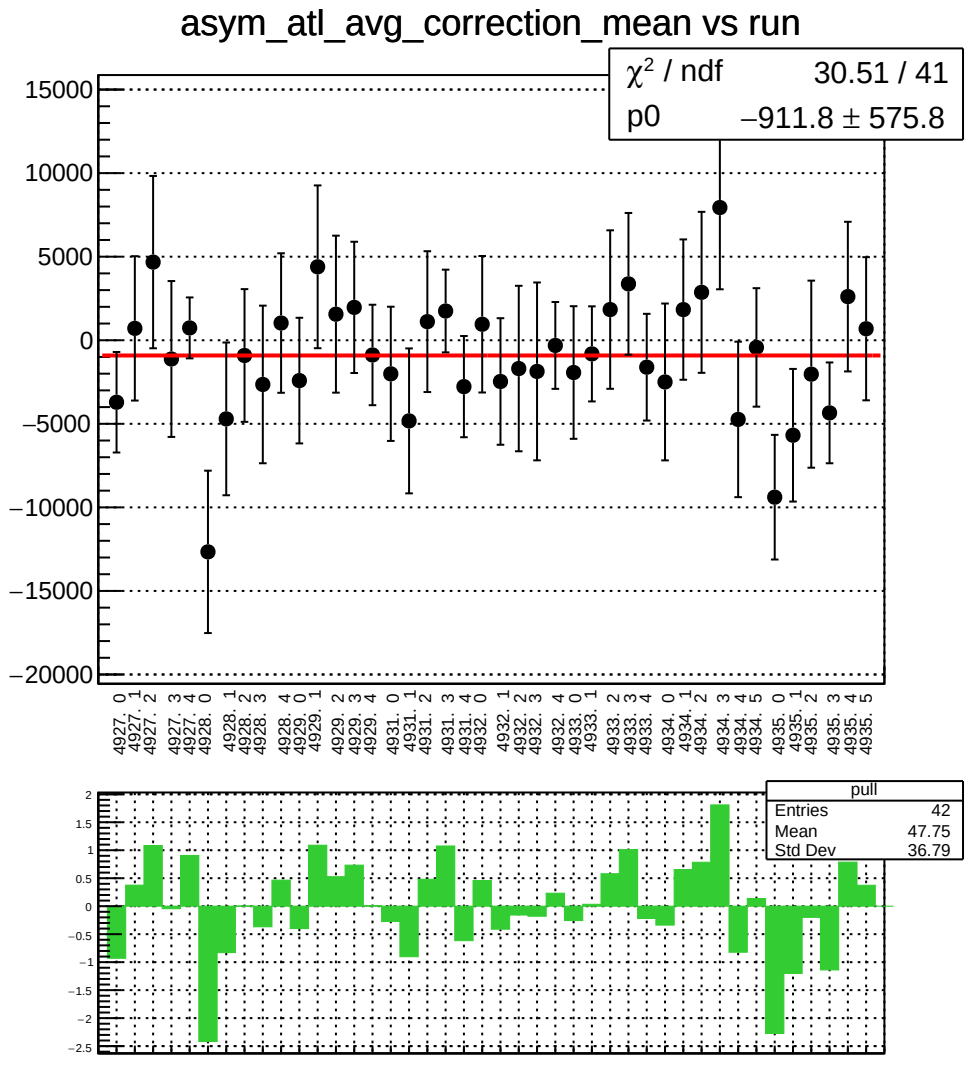

asym_atr2_mean vs run
×10^3
χ² / ndf 34.56 / 41
p0 3.023e+04 ± 1.501e+04
300
200
100
0
−100
−200
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −497.3
Std Dev 512.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

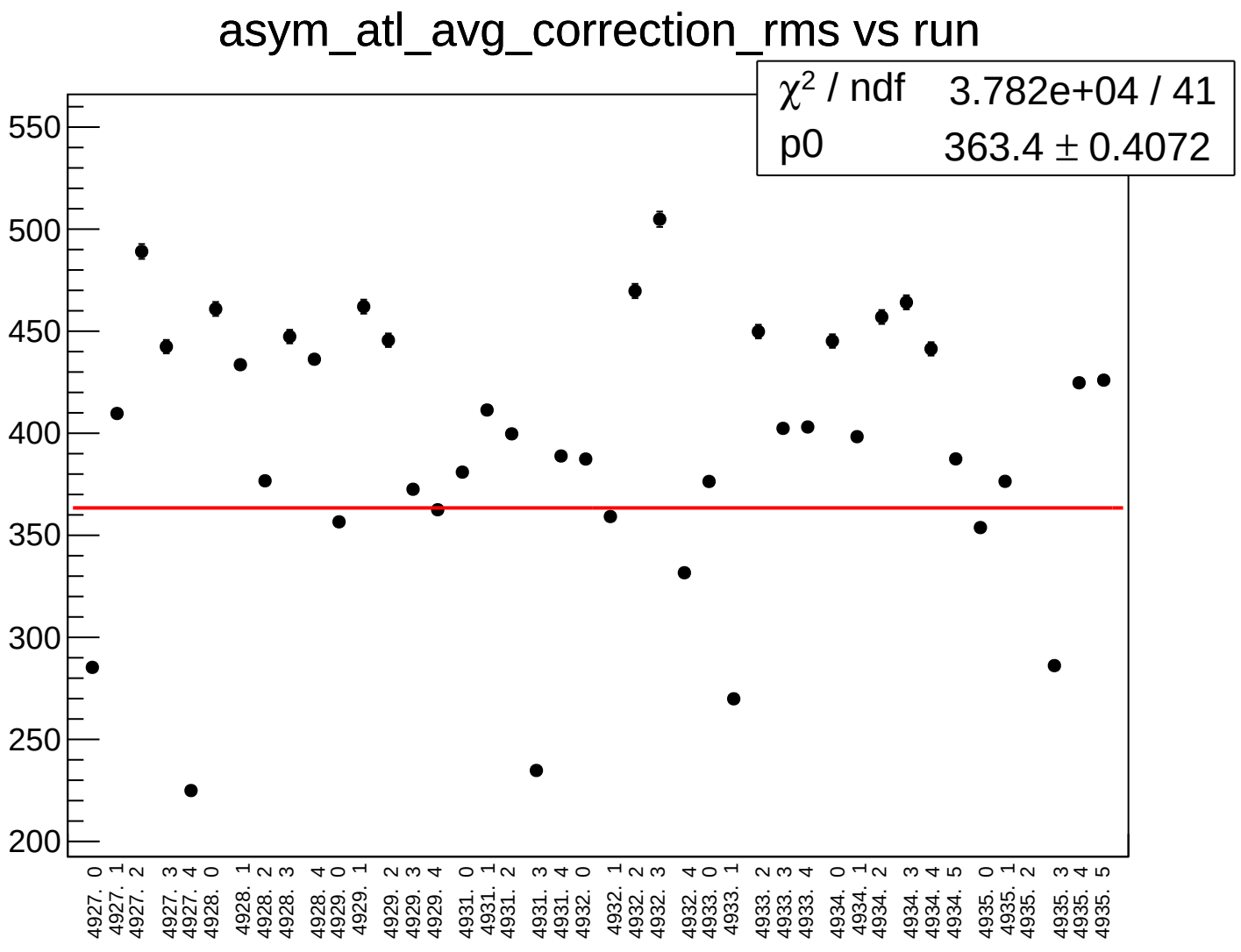

pull1D
Entries 42
Mean −0.004637
Std Dev 0.9071
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

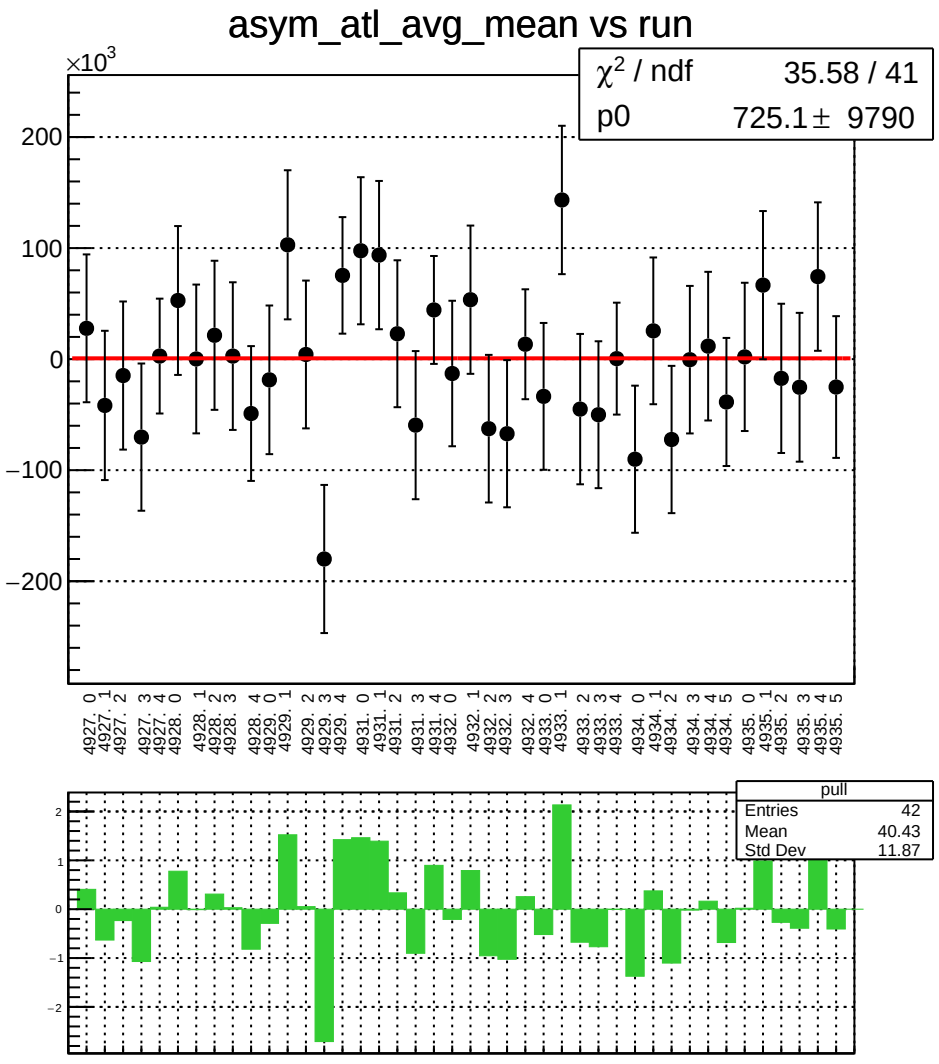

asym_atr2_rms vs run
χ² / ndf 33.81 / 41
p0 9692 ± 10.61
9900
9800
9700
9600
9500
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

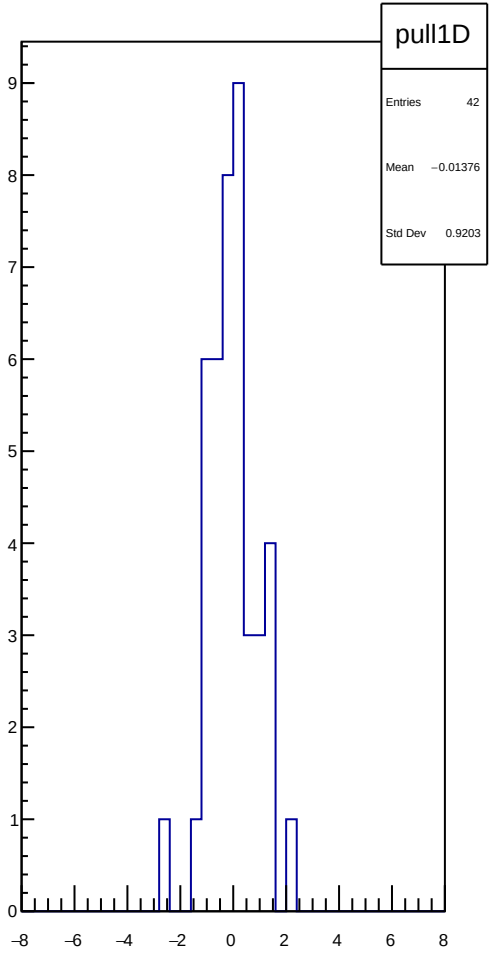

reg_asym_atl_avg_mean vs run
×10^3
χ² / ndf 34.93 / 41
p0 −194 ± 9770
200
100
0
−100
−200
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 39.72
Std Dev 15.07
2
1
0
−1
−2
pull1D
Entries 42
Mean −0.01373
Std Dev 0.9118
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

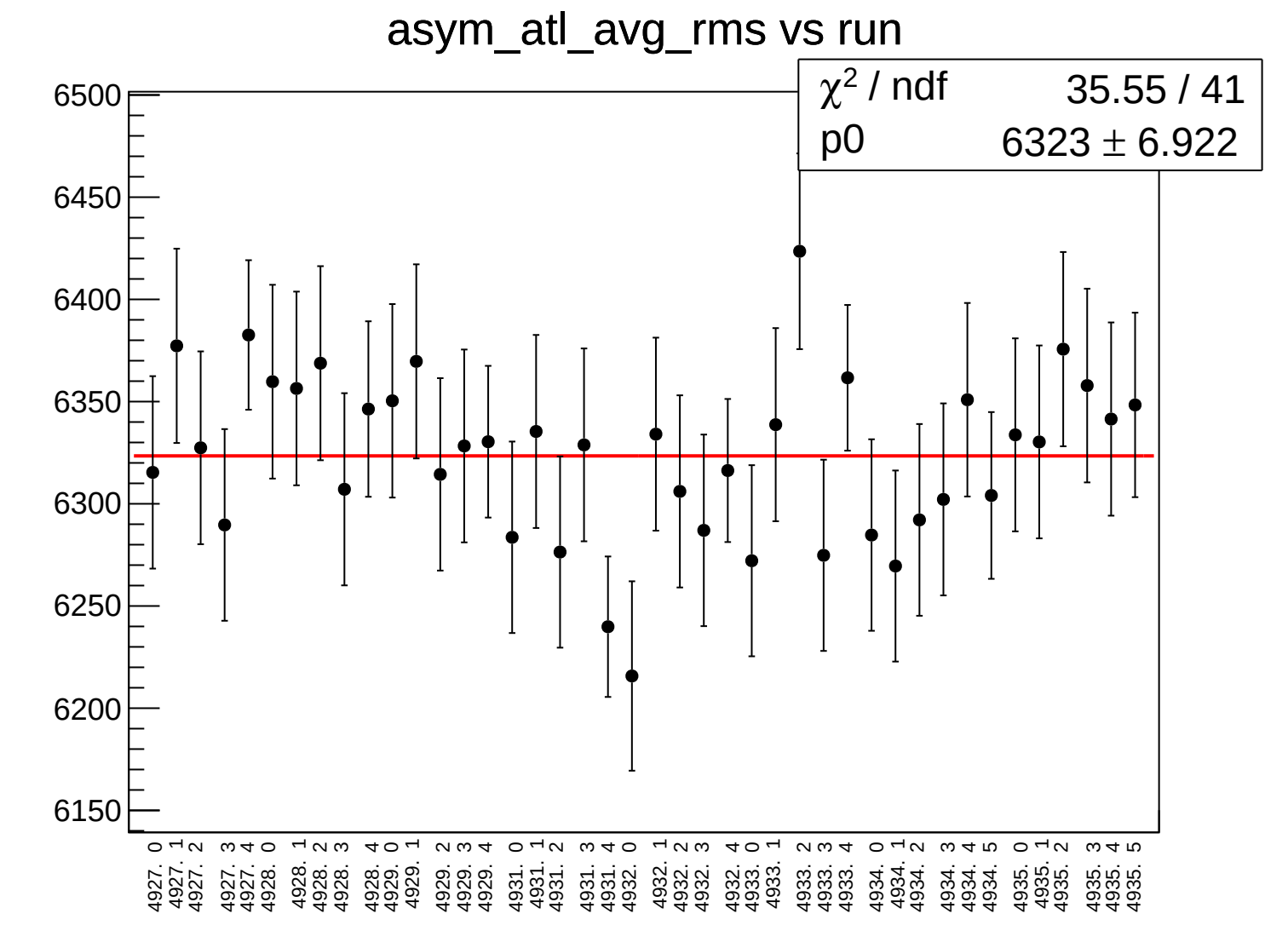

reg_asym_atl_avg_rms vs run
χ² / ndf 36.48 / 41
p0 6311 ± 6.908
6450
6400
6350
6300
6250
6200
6150
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

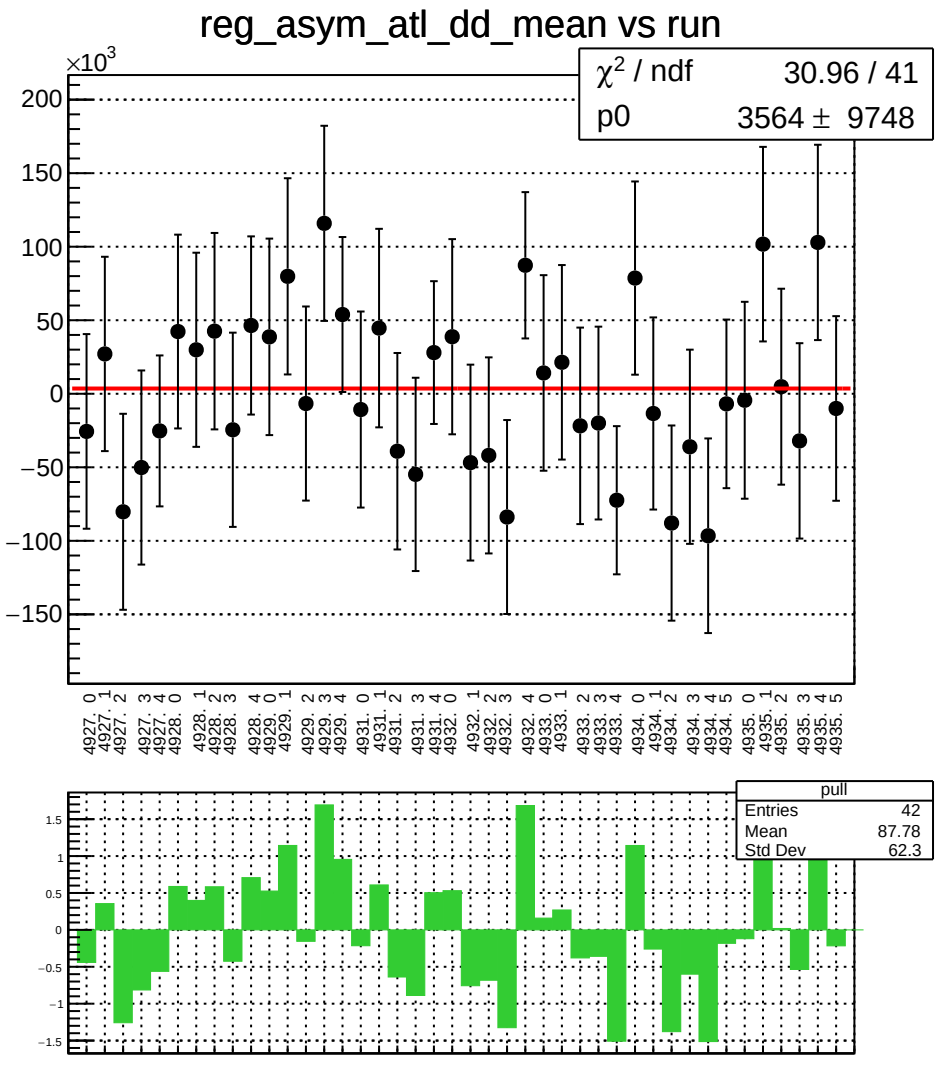

asym_atl_avg_correction_mean vs run
χ² / ndf 30.51 / 41
p0 −911.8 ± 575.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 47.75
Std Dev 36.79
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 42
Mean −0.008923
Std Dev 0.8522
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

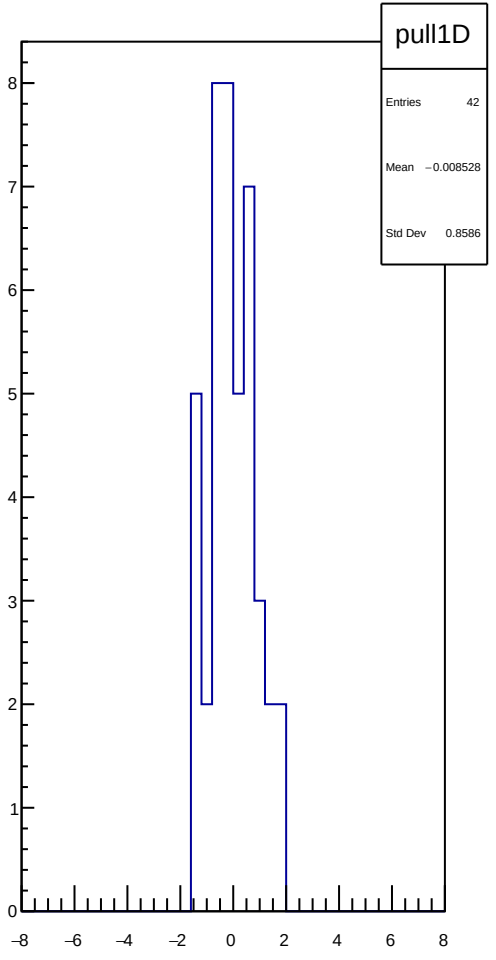

asym_atl_avg_correction_rms vs run
χ² / ndf 3.782e+04 / 41
p0 363.4 ± 0.4072
550
500
450
400
350
300
250
200
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

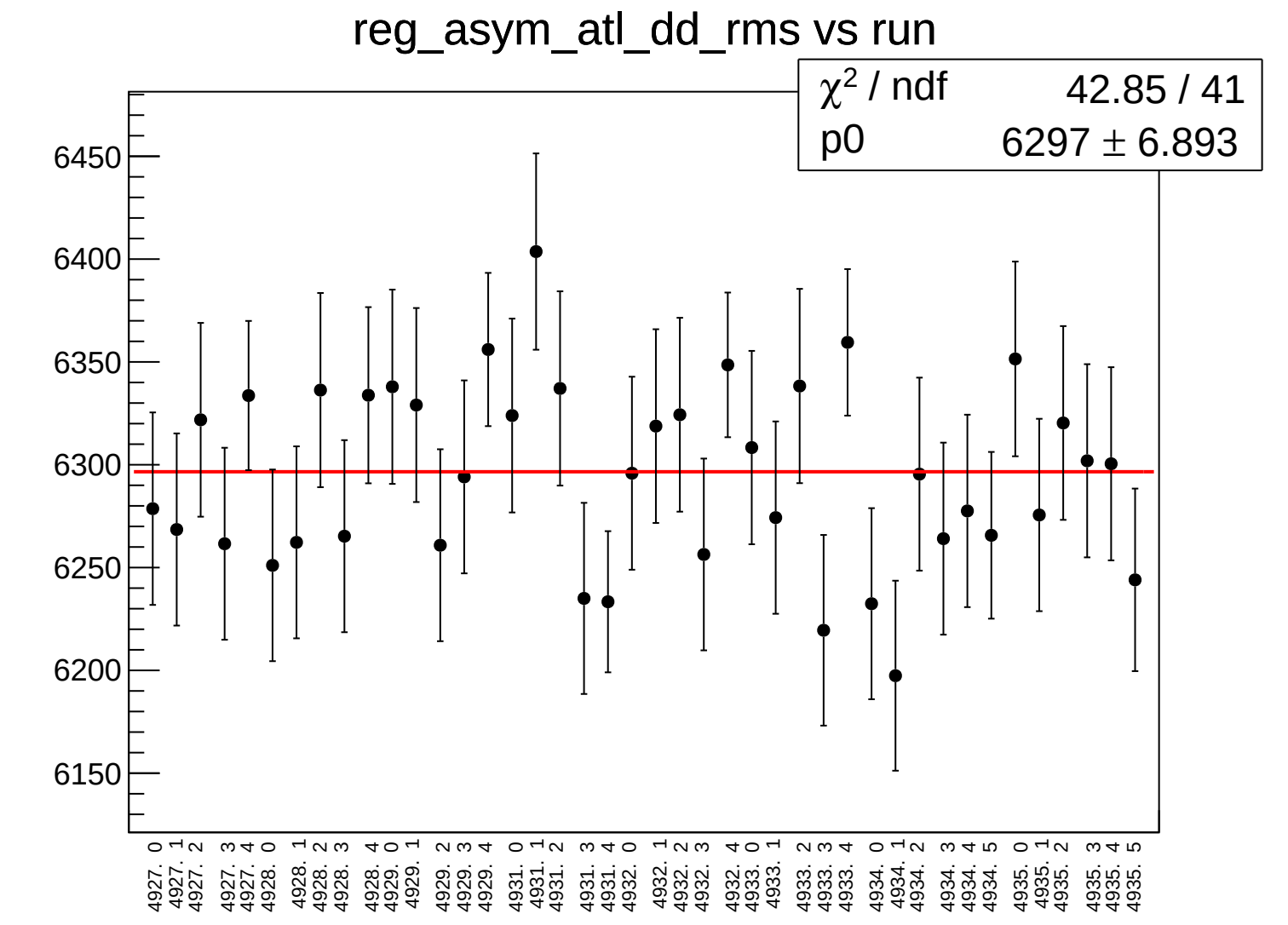

asym_atl_avg_mean vs run
×10^3
χ² / ndf 35.58 / 41
p0 725.1 ± 9790
200
100
0
−100
−200
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 40.43
Std Dev 11.87
2
1
0
−1
−2

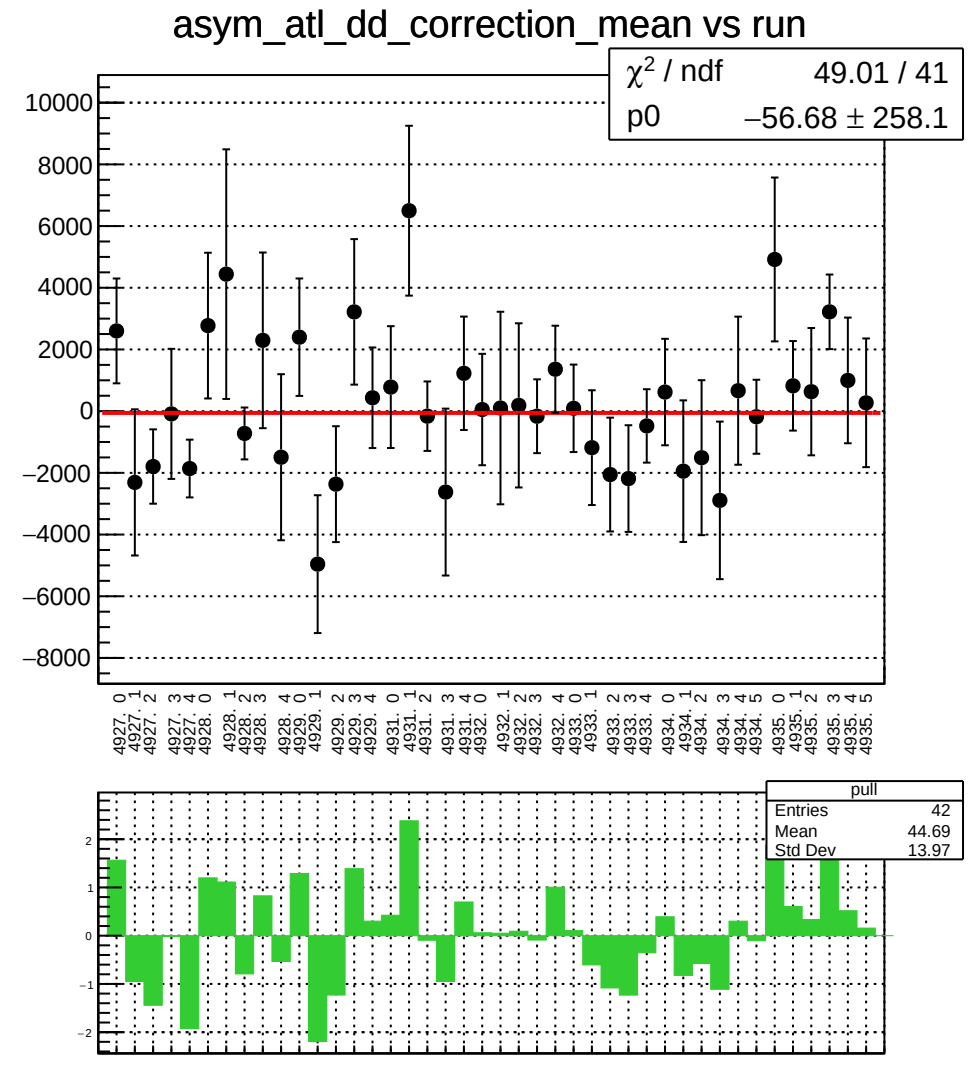

pull1D
Entries 42
Mean −0.01376
Std Dev 0.9203
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

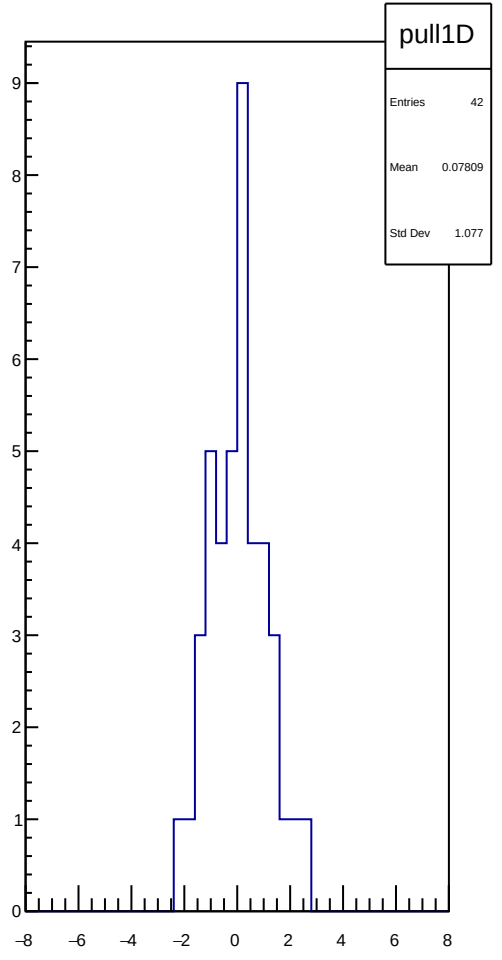

asym_atl_avg_rms vs run
χ² / ndf 35.55 / 41
p0 6323 ± 6.922
6500
6450
6400
6350
6300
6250
6200
6150
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

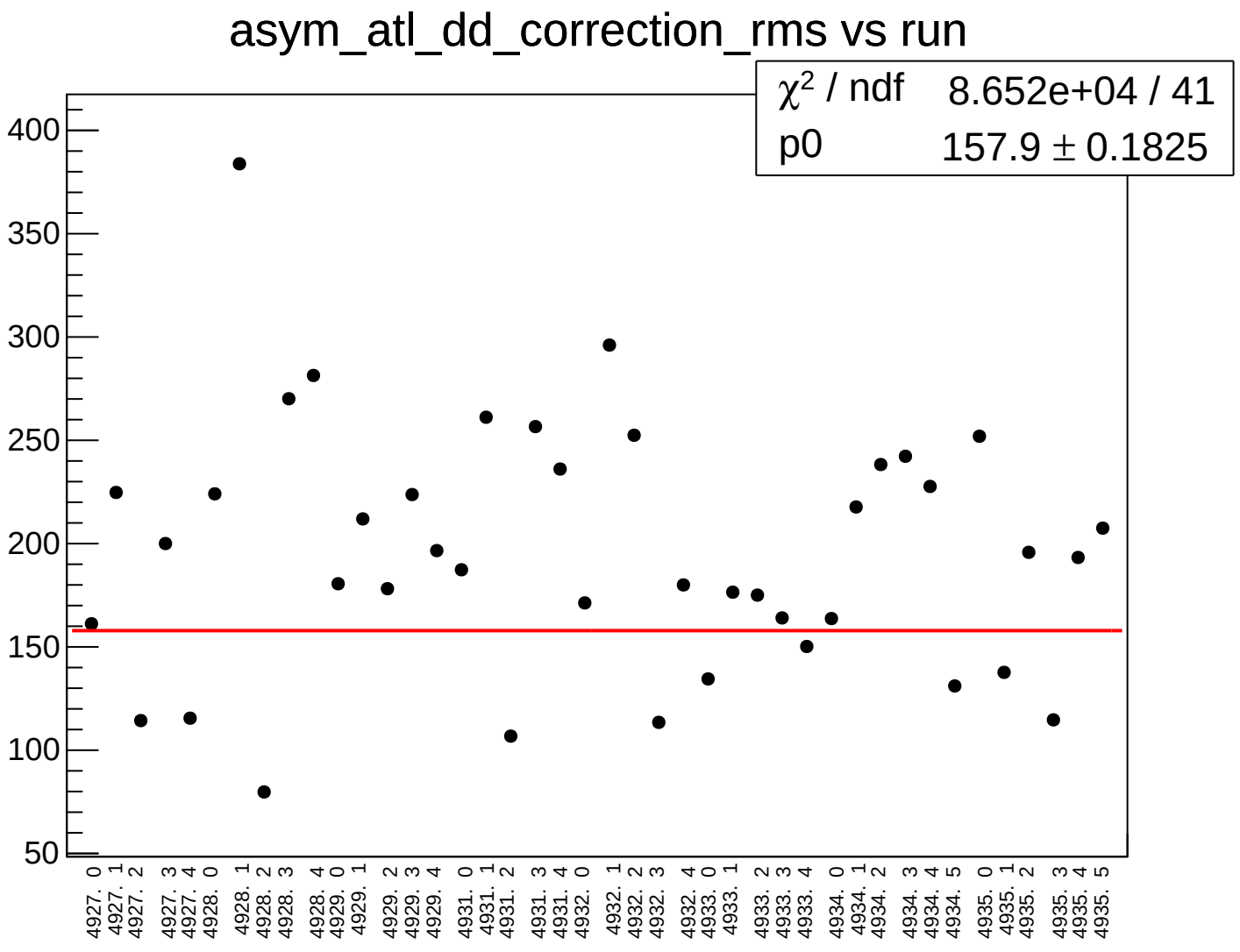

reg_asym_atl_dd_mean vs run
×10^3
χ² / ndf 30.96 / 41
p0 3564 ± 9748
200
150
100
50
0
−50
−100
−150
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 87.78
Std Dev 62.3
1.5
1
0.5
0
−0.5
−1
−1.5

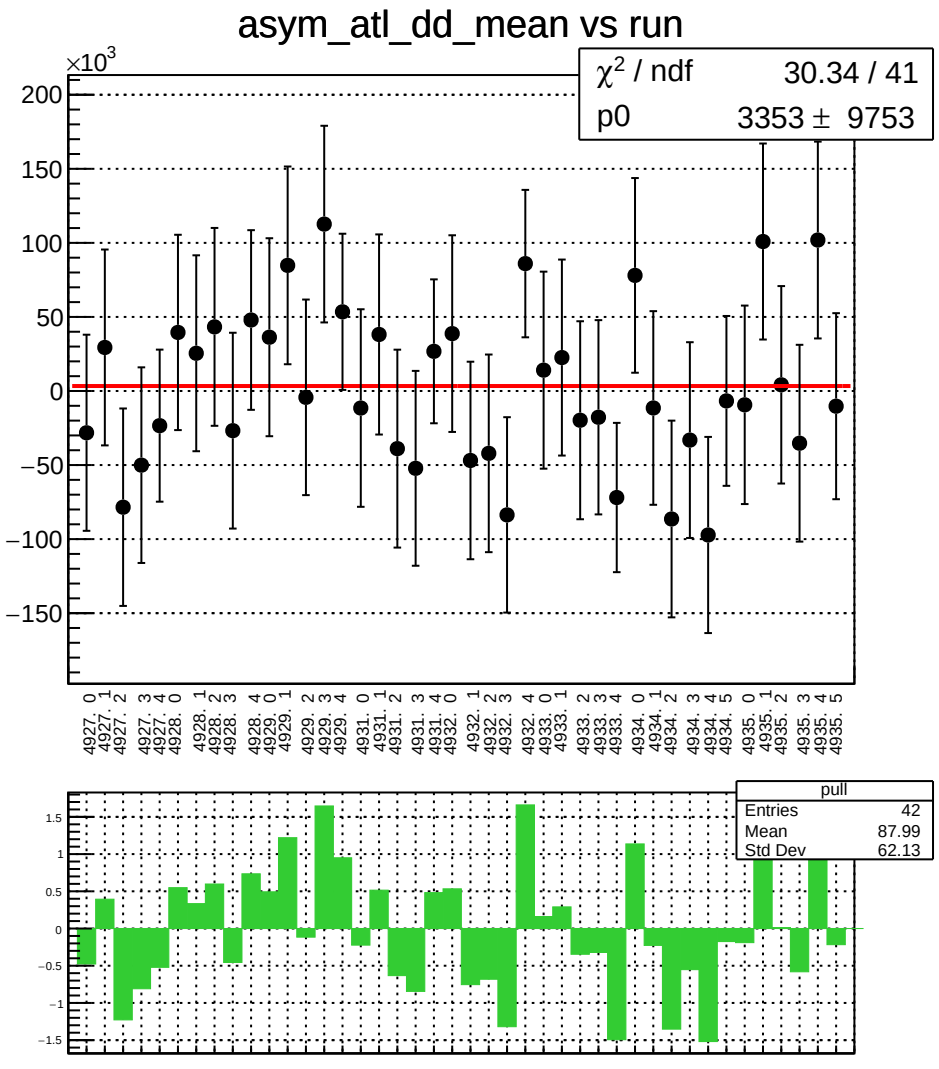

pull1D
Entries 42
Mean −0.008528
Std Dev 0.8586
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

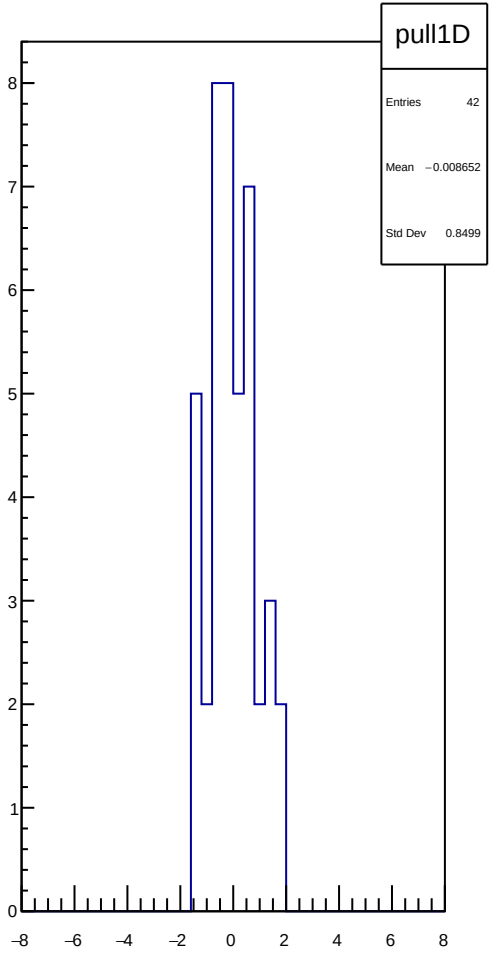

reg_asym_atl_dd_rms vs run
χ² / ndf 42.85 / 41
p0 6297 ± 6.893
6450
6400
6350
6300
6250
6200
6150
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

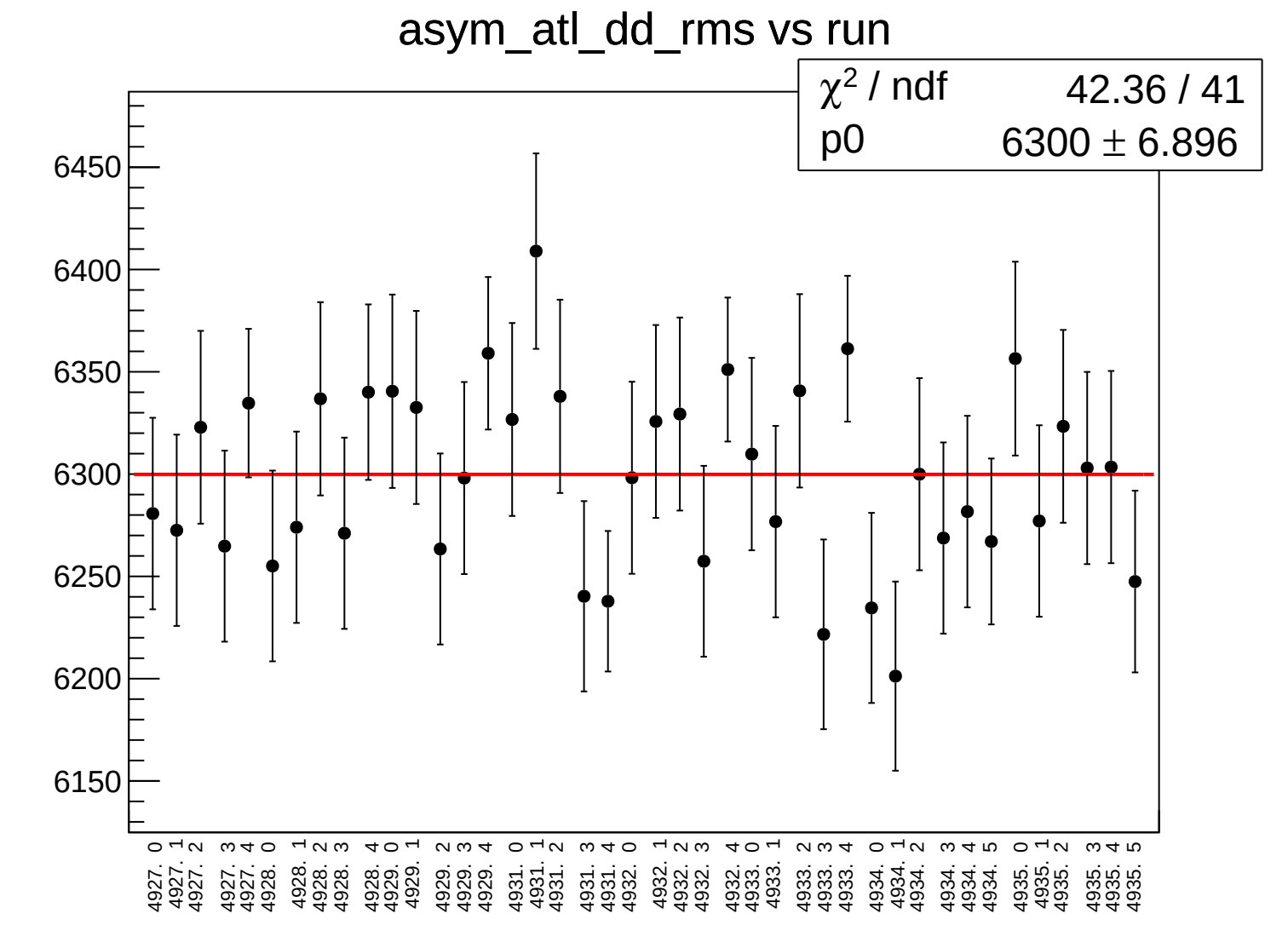

asym_atl_dd_correction_mean vs run
χ² / ndf 49.01 / 41
p0 −56.68 ± 258.1
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 44.69
Std Dev 13.97
2
1
0
−1
−2

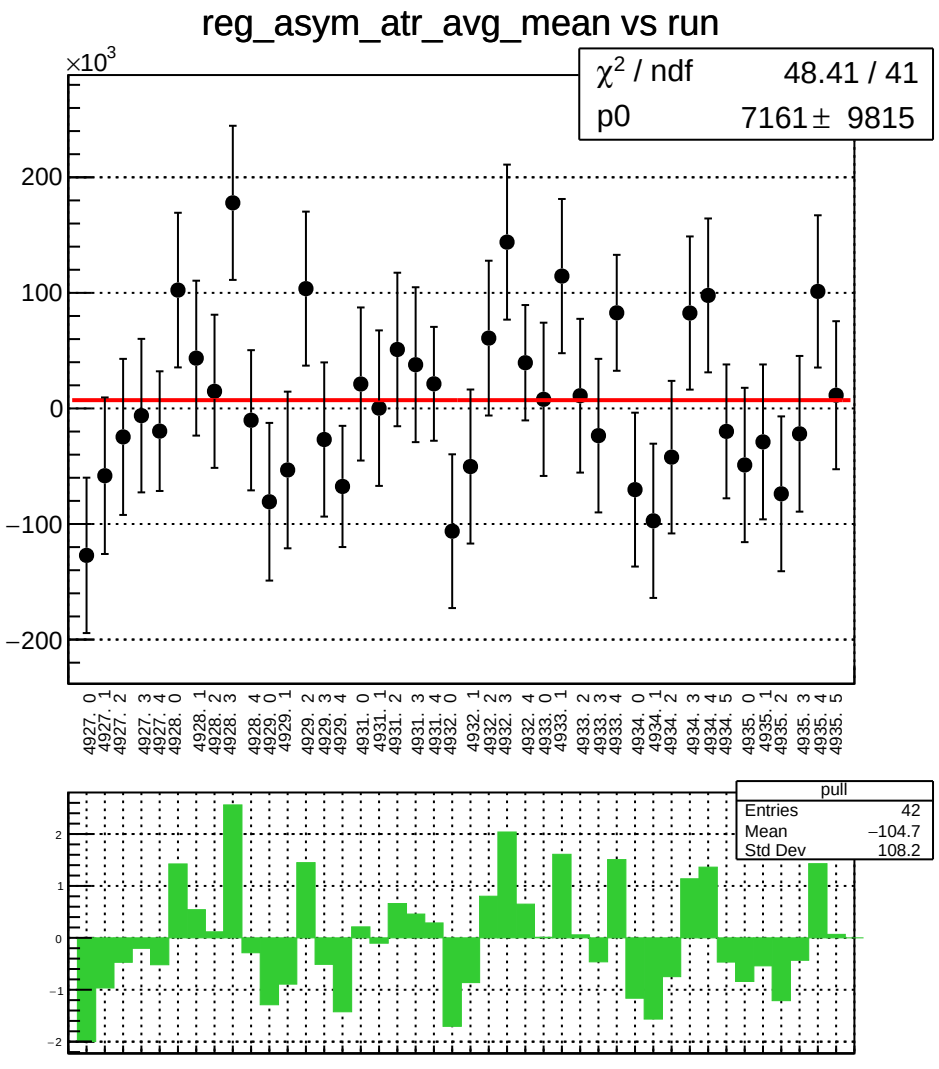

pull1D
Entries 42
Mean 0.07809
Std Dev 1.077
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

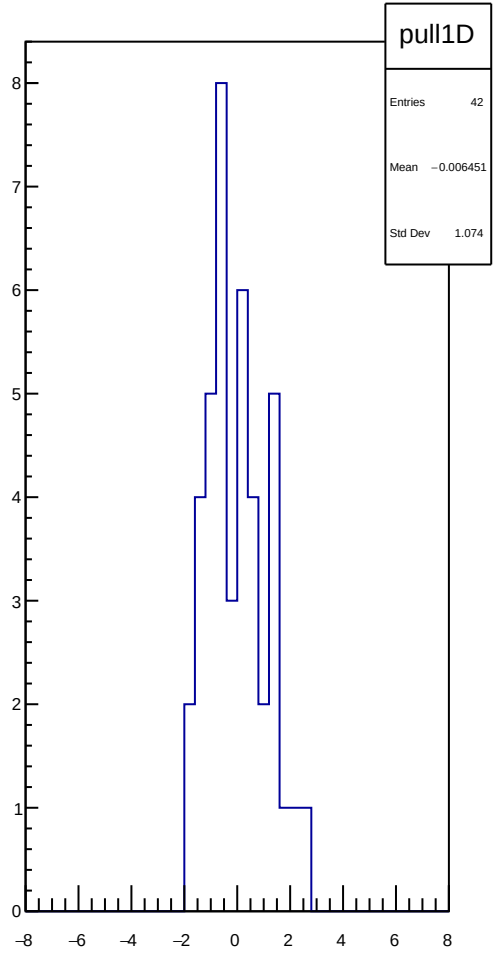

asym_atl_dd_correction_rms vs run
χ² / ndf 8.652e+04 / 41
p0 157.9 ± 0.1825
400
350
300
250
200
150
100
50
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

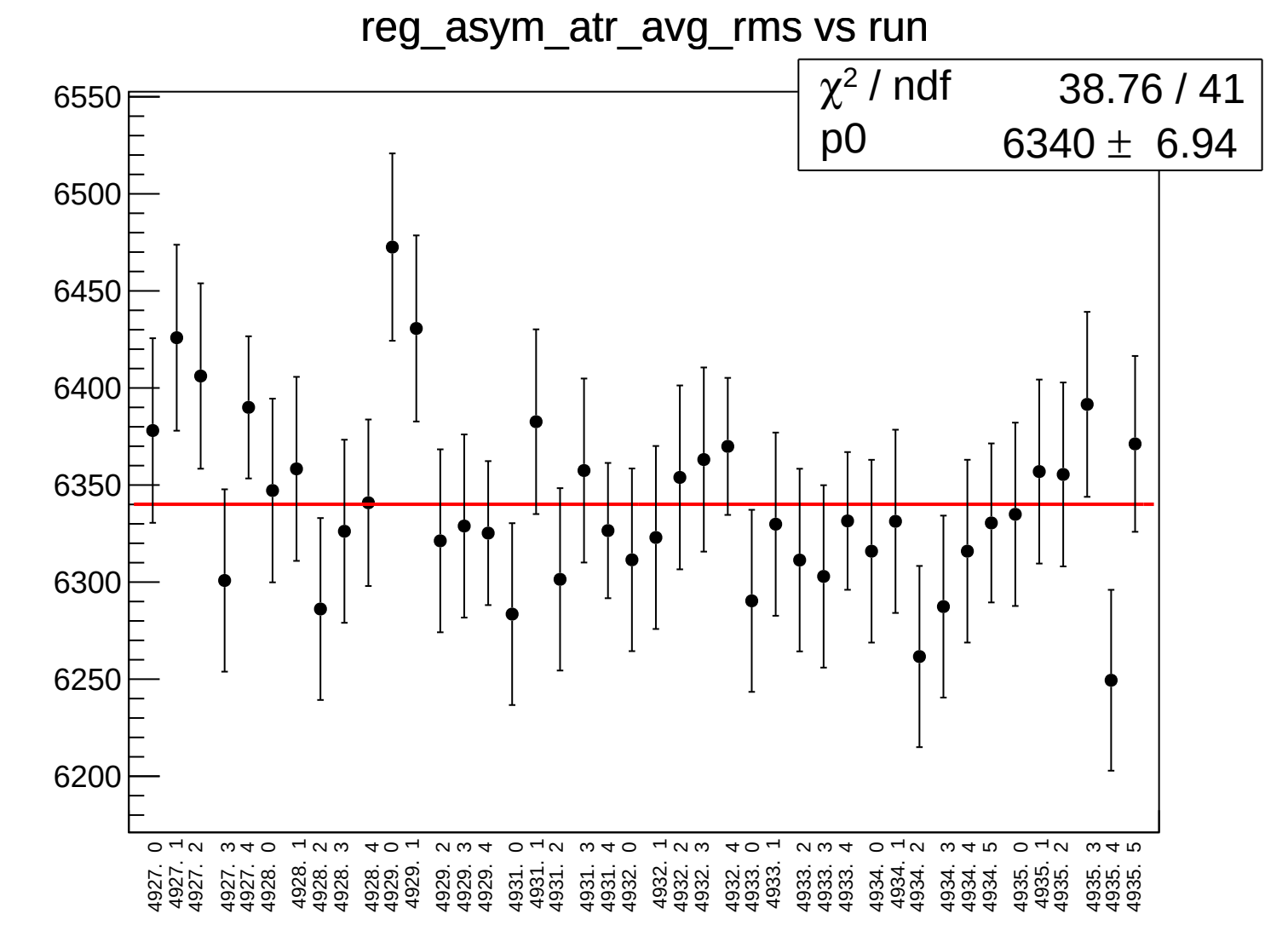

asym_atl_dd_mean vs run
×10^3
χ² / ndf 30.34 / 41
p0 3353 ± 9753
200
150
100
50
0
−50
−100
−150
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 87.99
Std Dev 62.13
1.5
1
0.5
0
−0.5
−1
−1.5

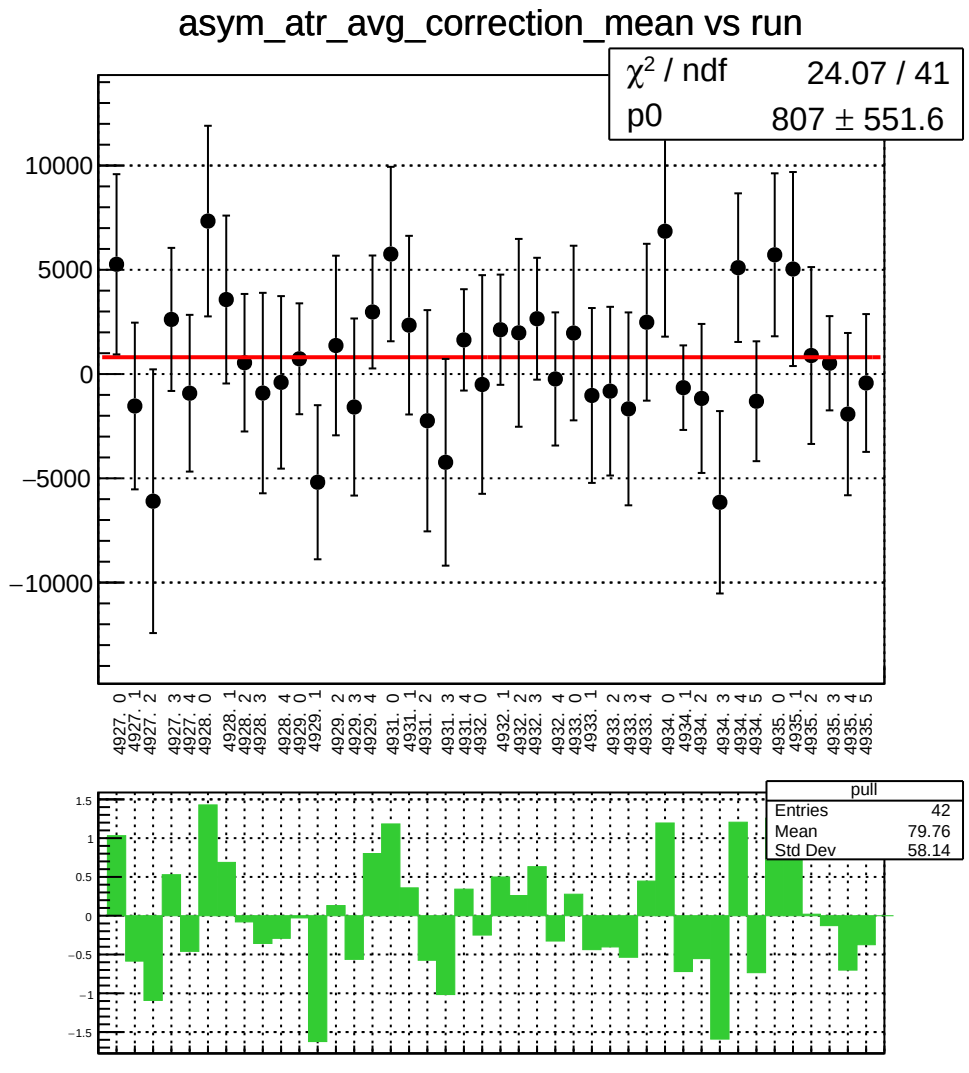

pull1D
Entries 42
Mean −0.008652
Std Dev 0.8499
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

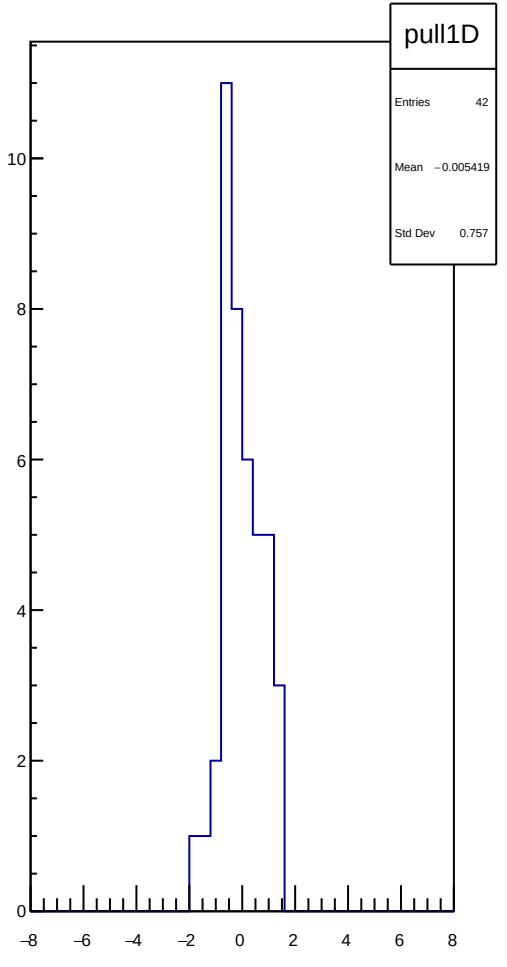

asym_atl_dd_rms vs run
χ² / ndf 42.36 / 41
p0 6300 ± 6.896
6450
6400
6350
6300
6250
6200
6150
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

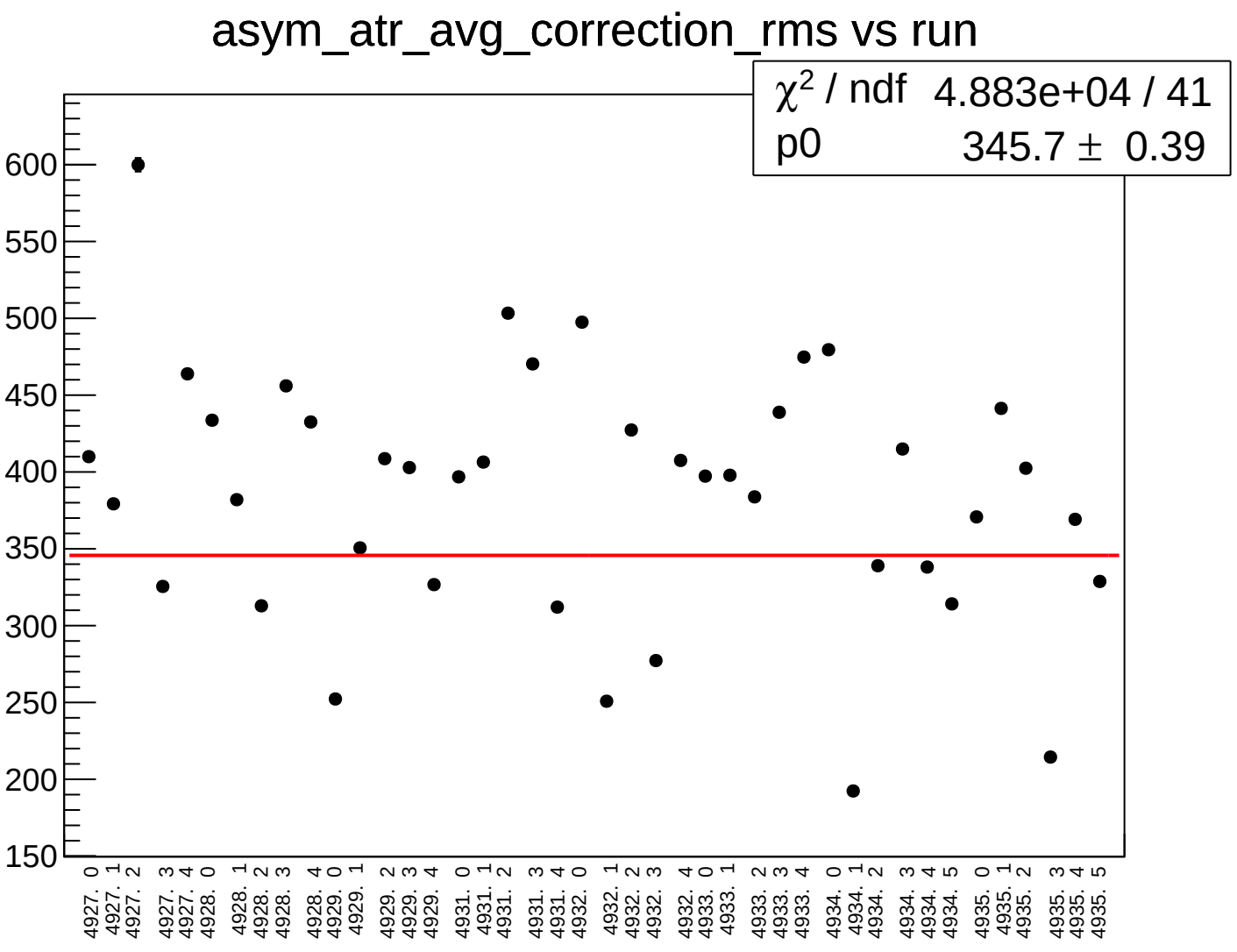

reg_asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 48.41 / 41
p0 7161 ± 9815
200
100
0
−100
−200
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −104.7
Std Dev 108.2
2
1
0
−1
−2

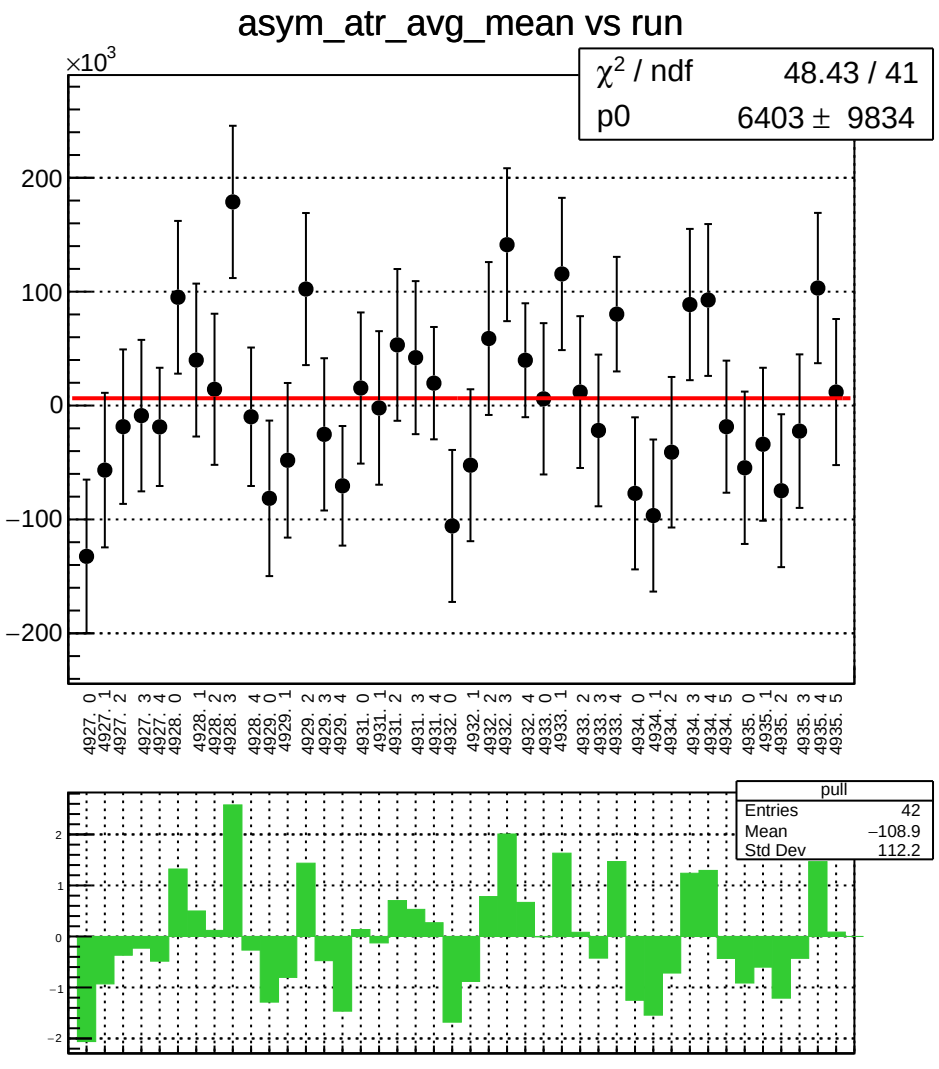

pull1D
Entries 42
Mean −0.006451
Std Dev 1.074
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

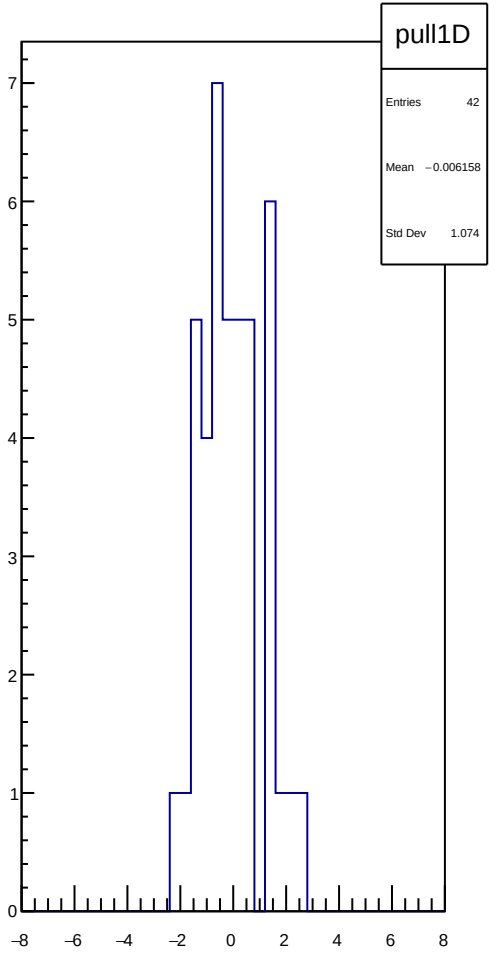

reg_asym_atr_avg_rms vs run
χ² / ndf 38.76 / 41
p0 6340 ± 6.94
6550
6500
6450
6400
6350
6300
6250
6200
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

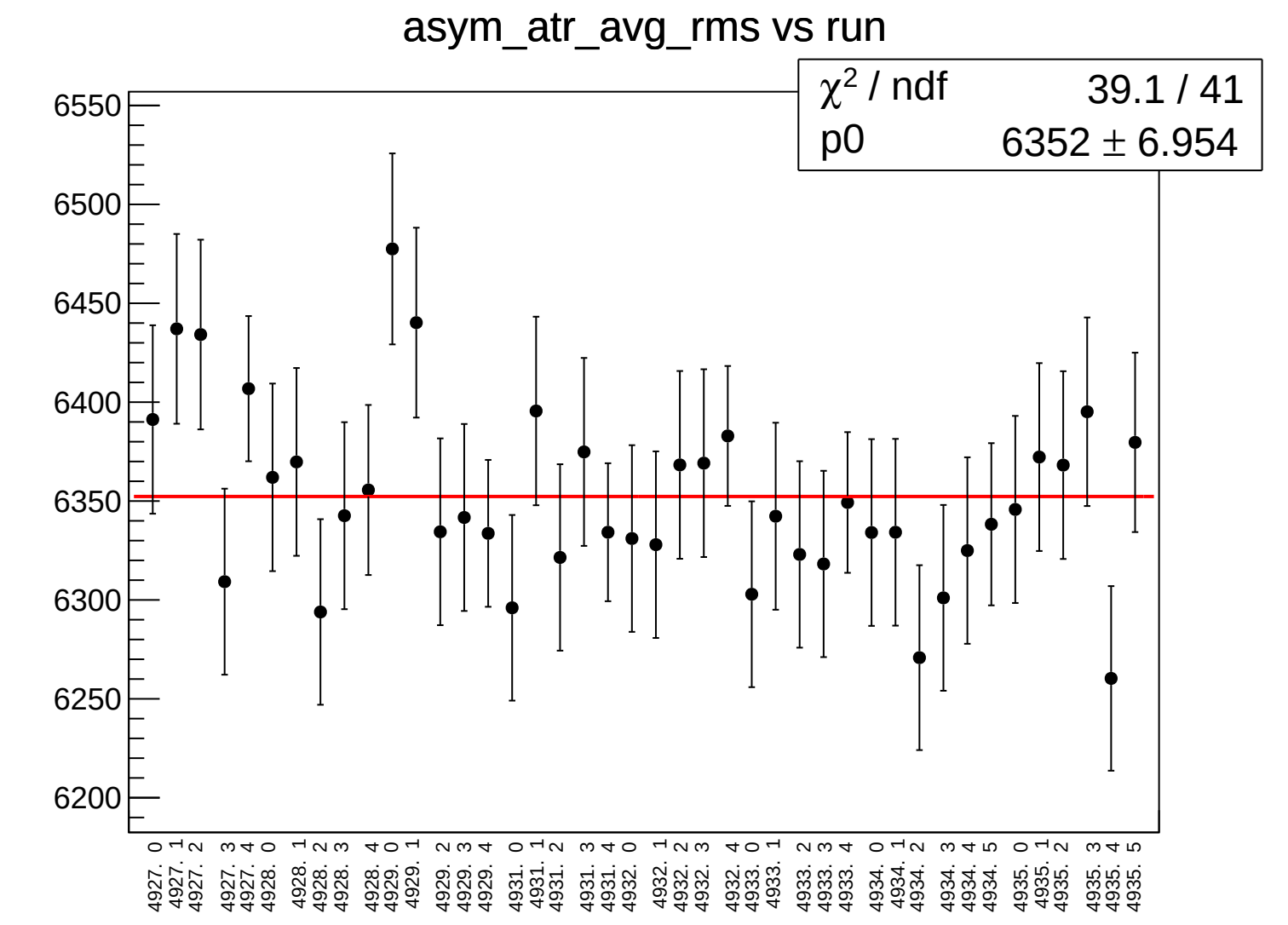

asym_atr_avg_correction_mean vs run
χ² / ndf 24.07 / 41
p0 807 ± 551.6
10000
5000
0
−5000
−10000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 79.76
Std Dev 58.14
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 42
Mean −0.005419
Std Dev 0.757
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_avg_correction_rms vs run
χ² / ndf 4.883e+04 / 41
p0 345.7 ± 0.39
600
550
500
450
400
350
300
250
200
150
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5


asym_atr_avg_mean vs run
×10^3
χ² / ndf 48.43 / 41
p0 6403 ± 9834
200
100
0
−100
−200
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −108.9
Std Dev 112.2
2
1
0
−1
−2


pull1D
Entries 42
Mean −0.006158
Std Dev 1.074
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_avg_rms vs run
χ² / ndf 39.1 / 41
p0 6352 ± 6.954
6550
6500
6450
6400
6350
6300
6250
6200
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
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4934. 4
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4935. 0
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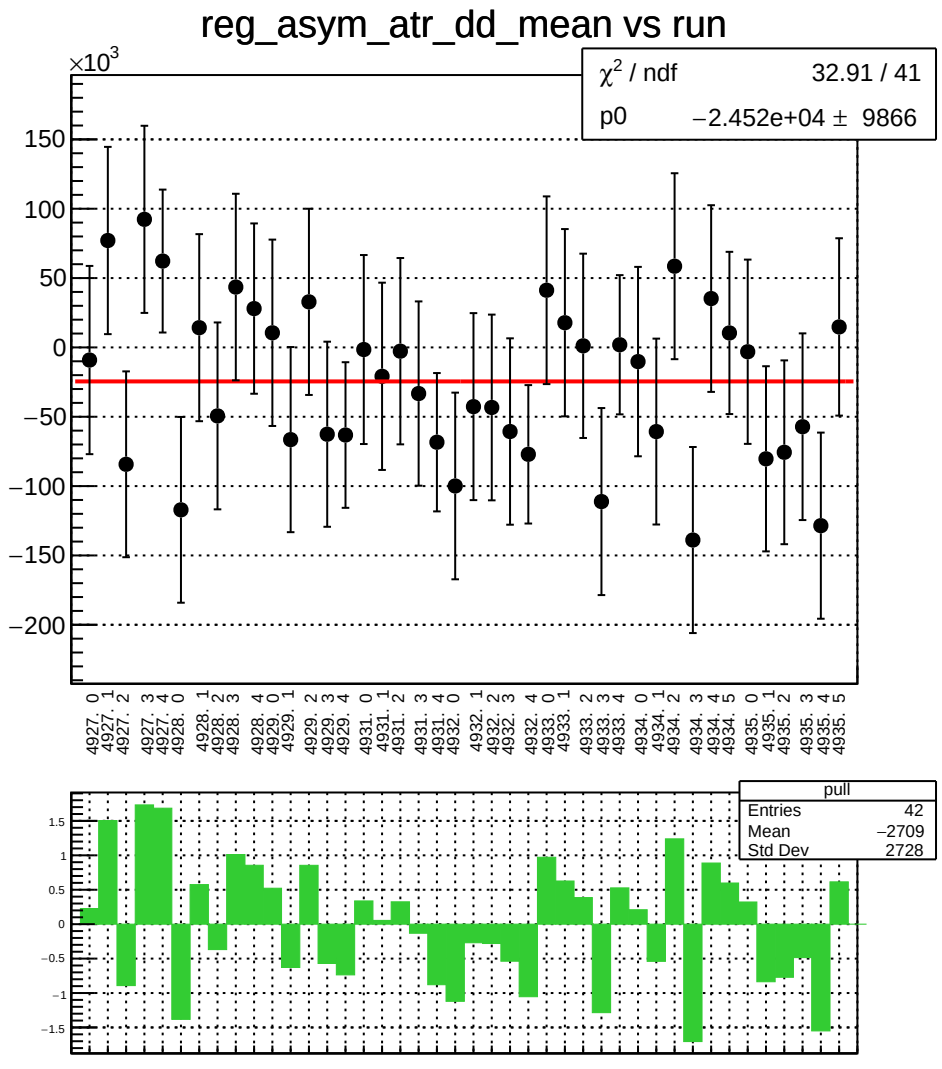
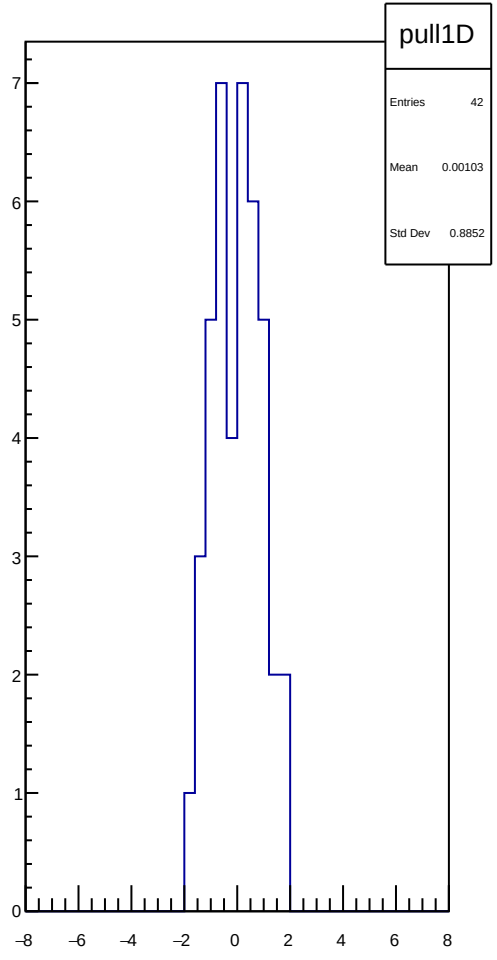
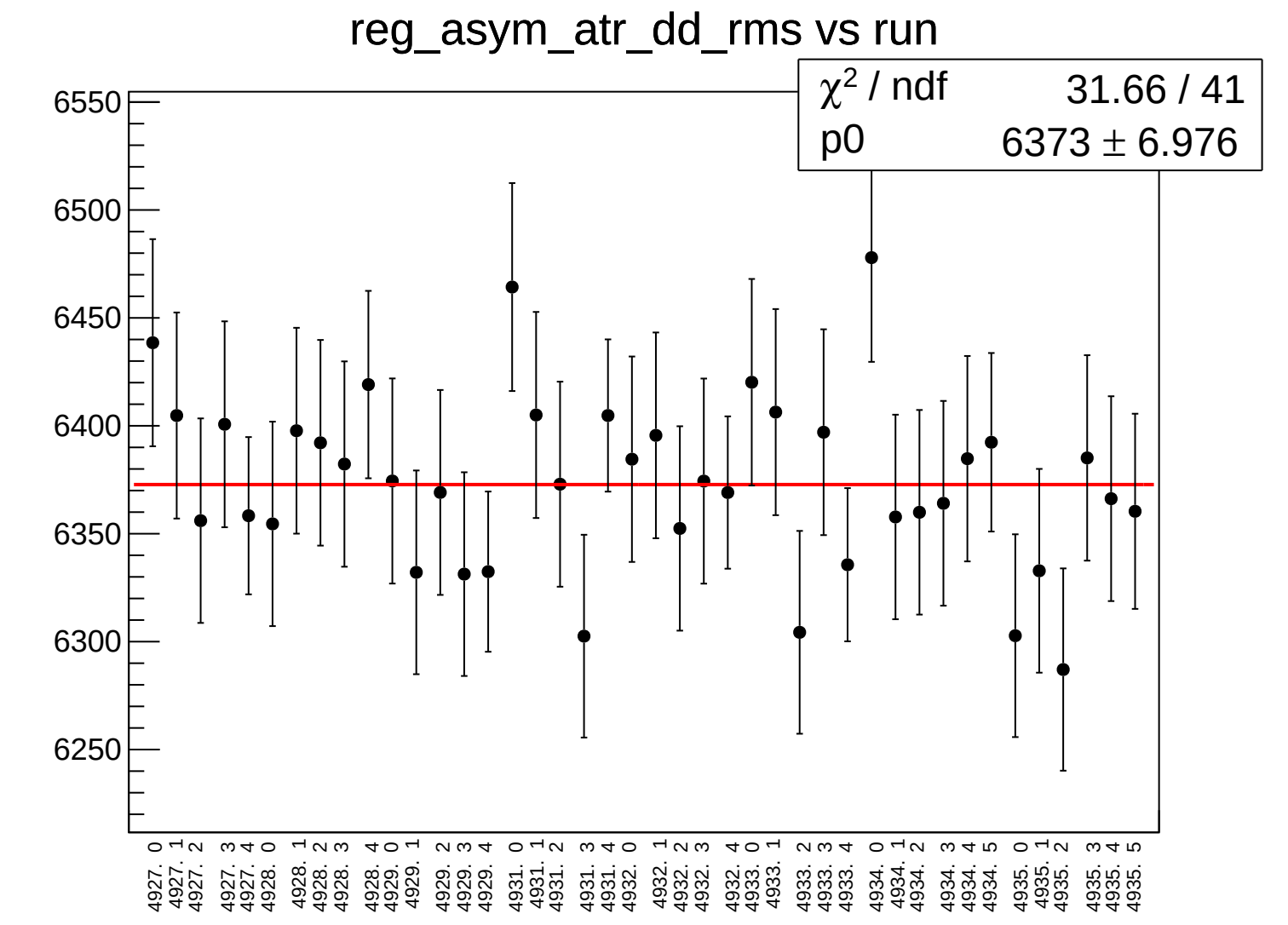
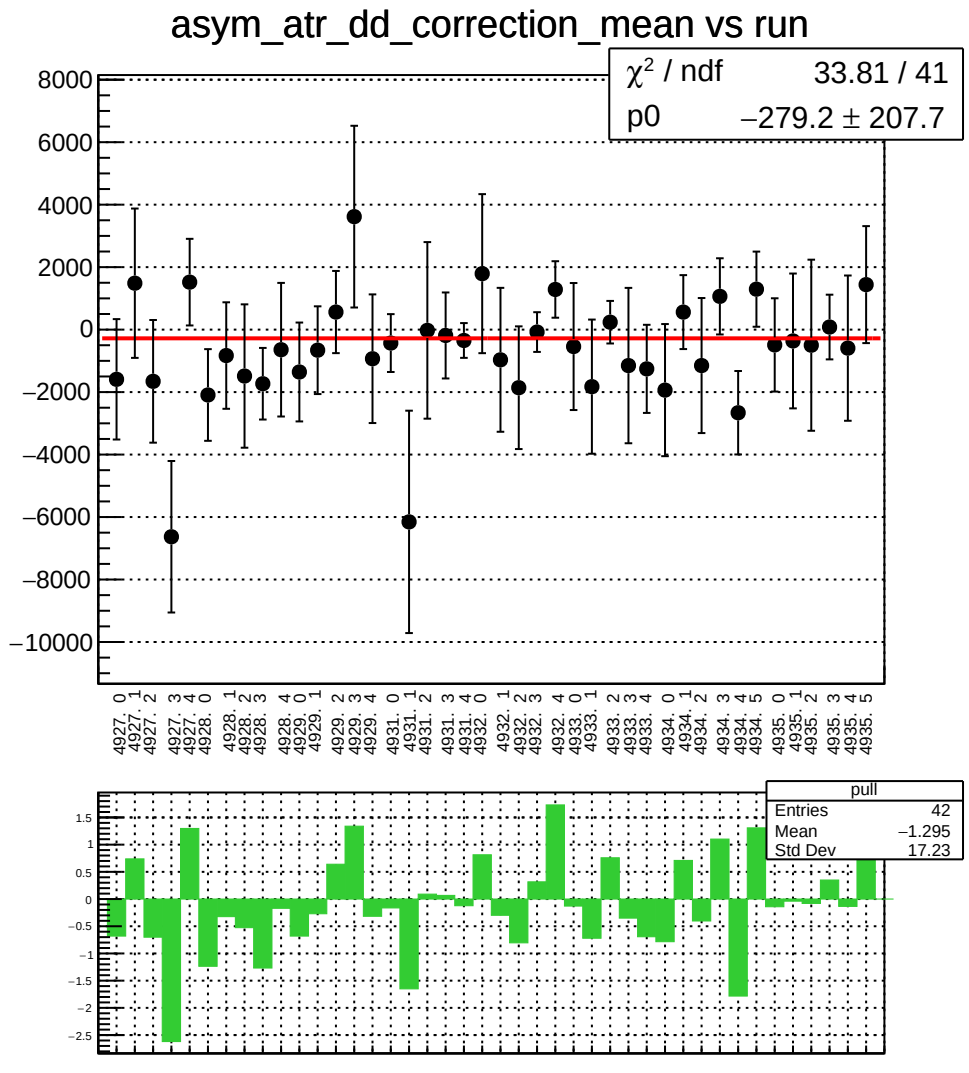
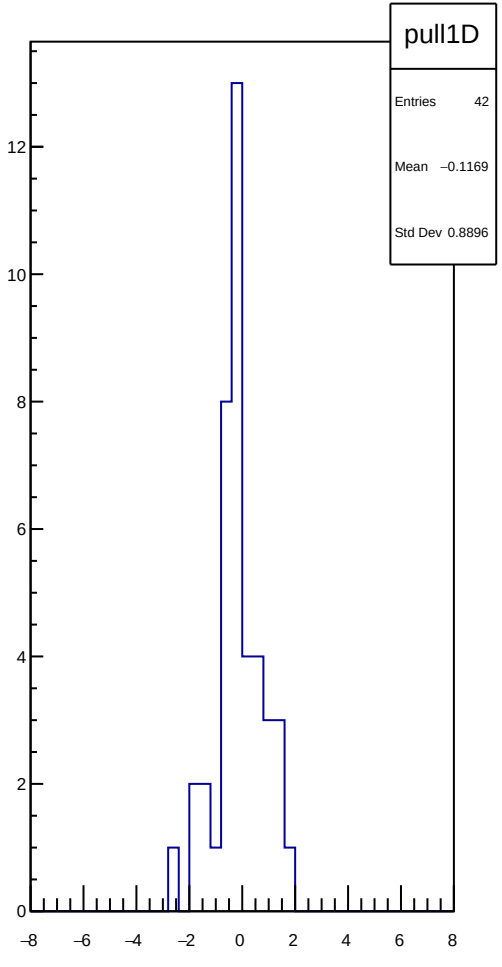
4935. 2
4935. 3
4935. 4
4935. 5

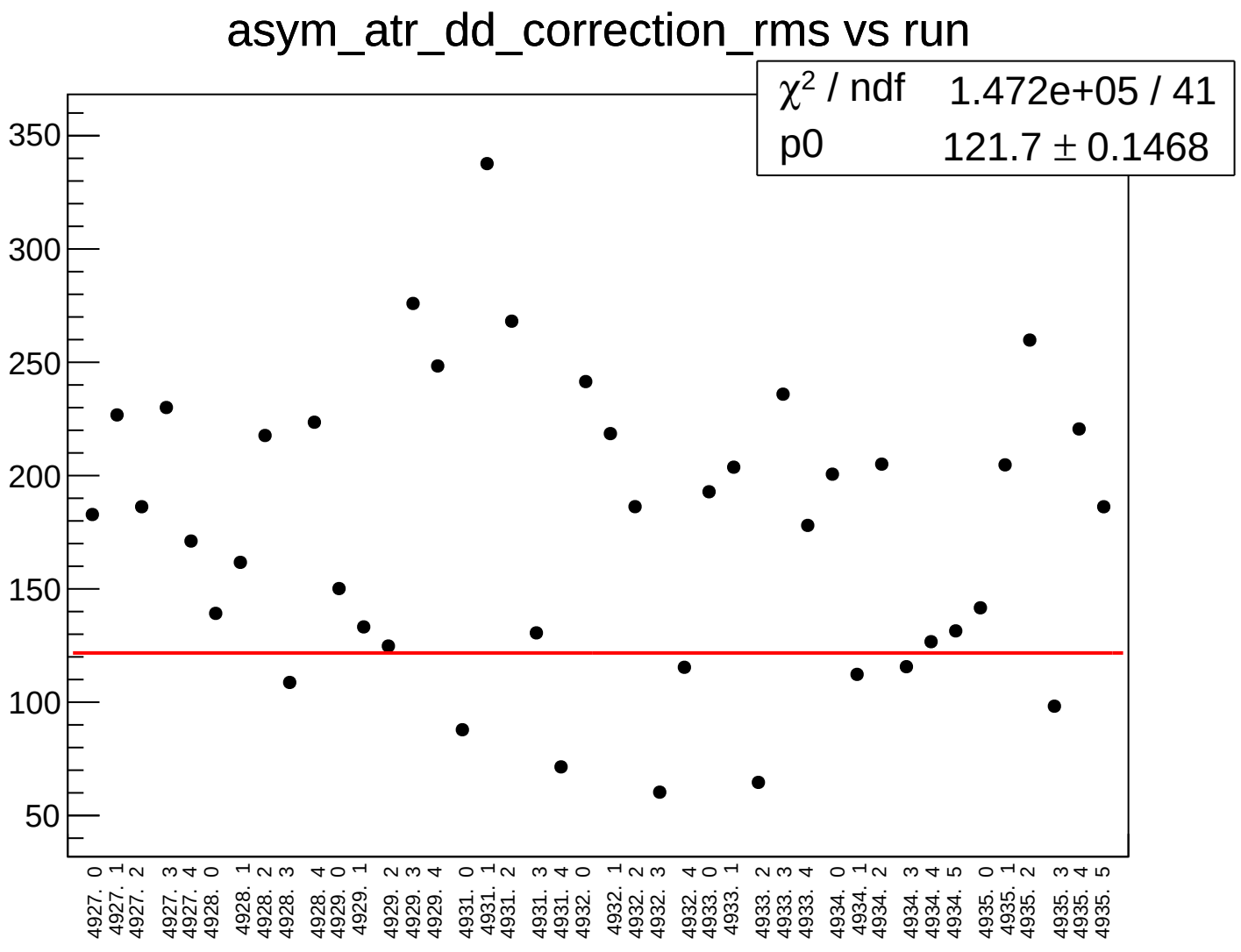

reg_asym_atr_dd_mean vs run
×10^3
χ² / ndf 32.91 / 41
p0 −2.452e+04 ± 9866
150
100
50
0
−50
−100
−150
−200
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −2709
Std Dev 2728
1.5
1
0.5
0
−0.5
−1
−1.5

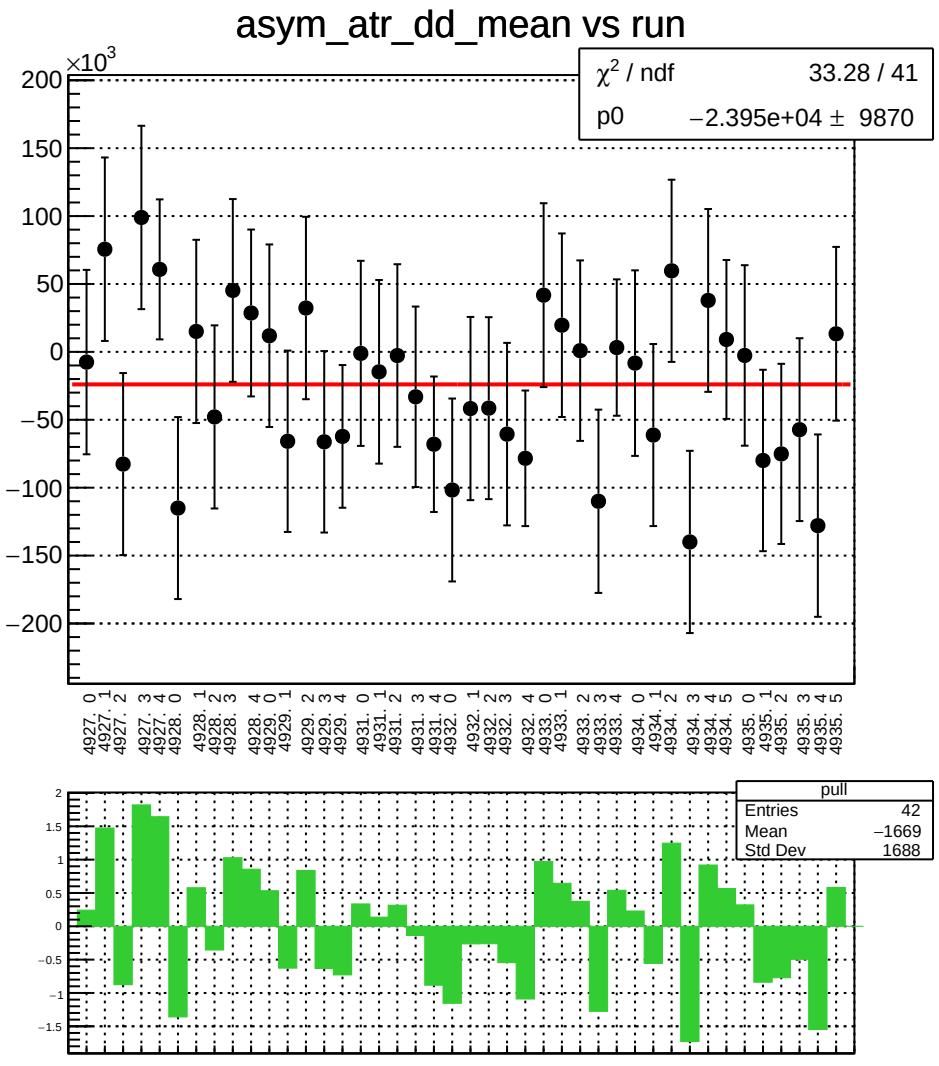

pull1D
Entries 42
Mean 0.00103
Std Dev 0.8852
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

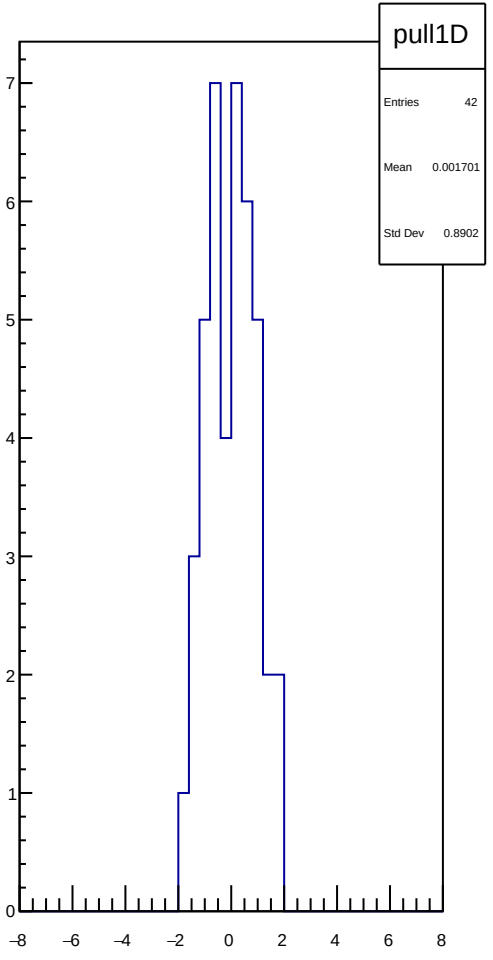

reg_asym_atr_dd_rms vs run
χ² / ndf 31.66 / 41
p0 6373 ± 6.976
6550
6500
6450
6400
6350
6300
6250
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

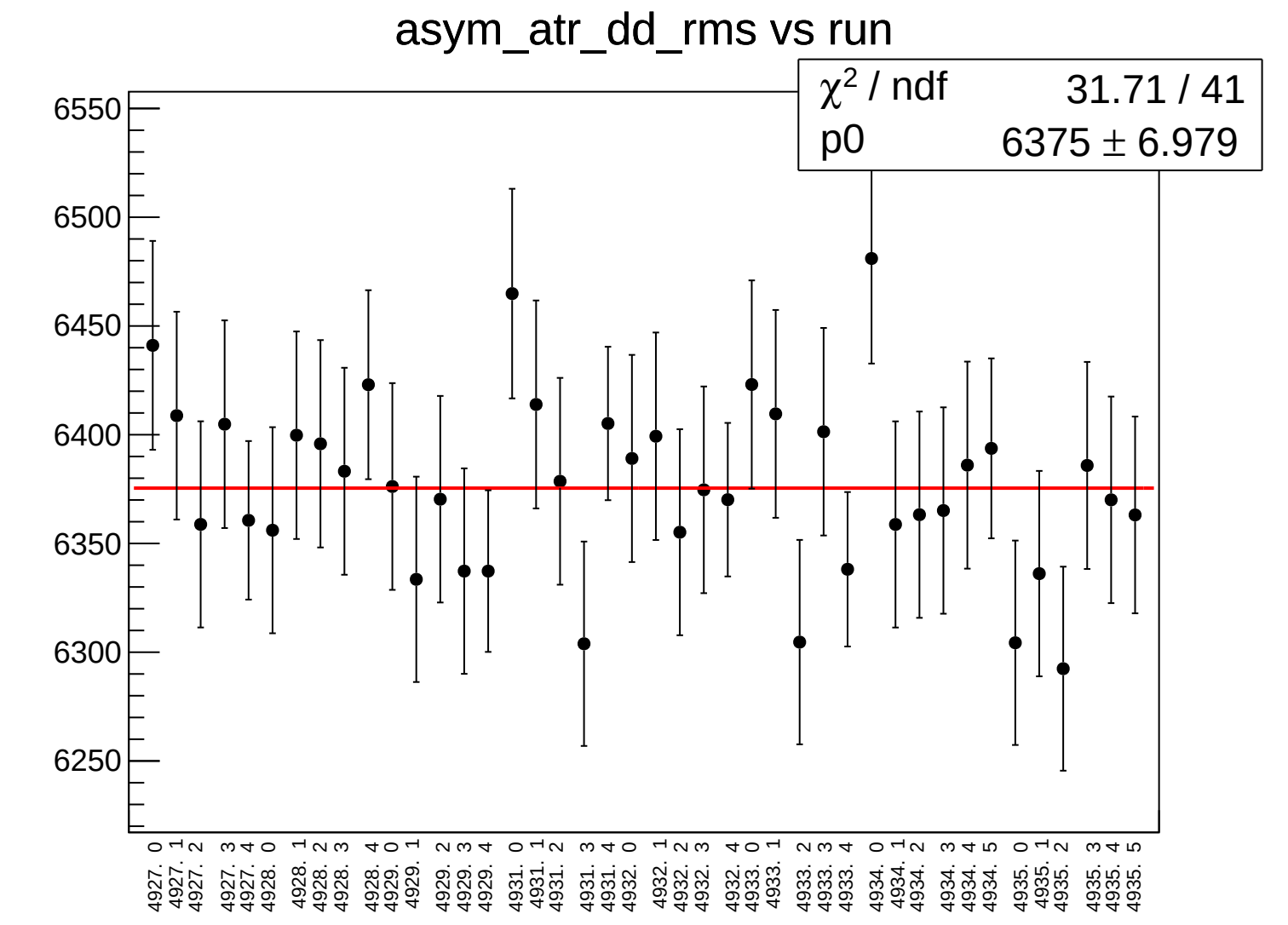

asym_atr_dd_correction_mean vs run
χ² / ndf 33.81 / 41
p0 −279.2 ± 207.7
pull
Entries 42
Mean −1.295
Std Dev 17.23

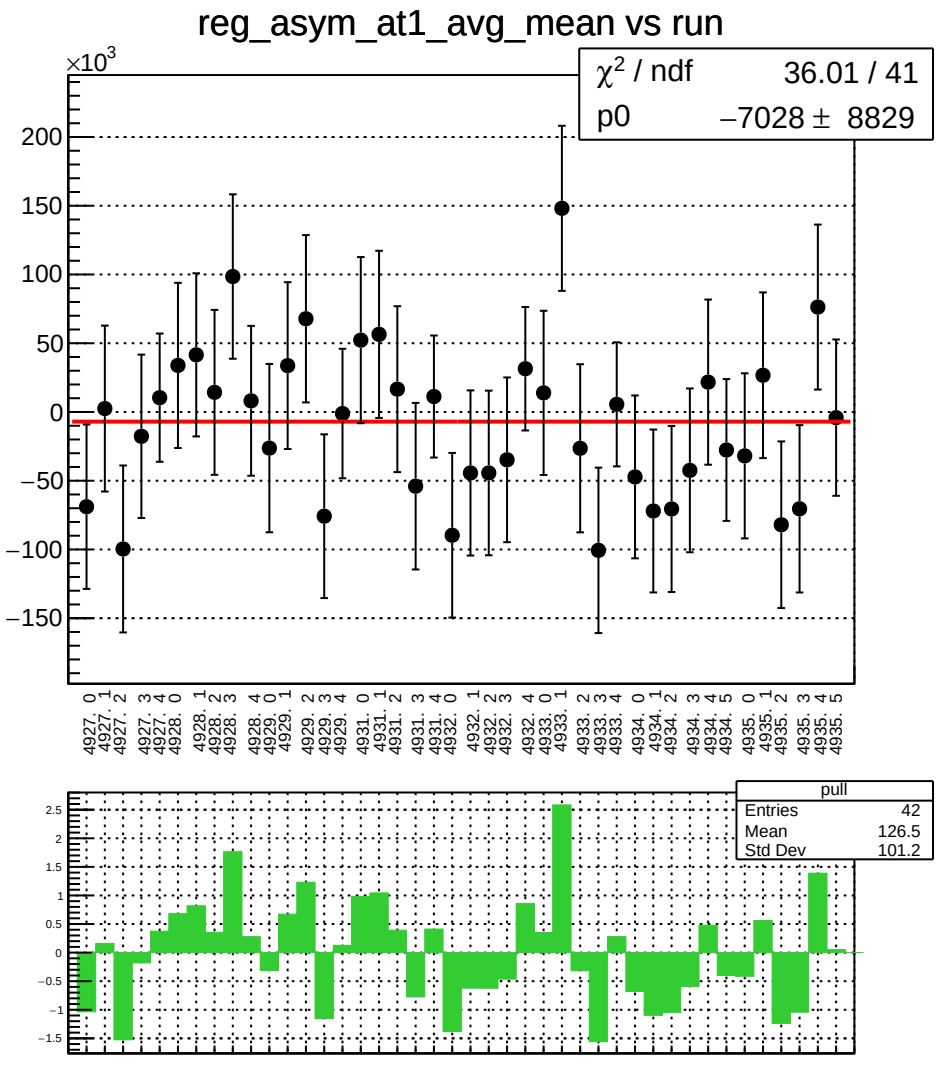

pull1D
Entries 42
Mean −0.1169
Std Dev 0.8896


asym_atr_dd_correction_rms vs run
χ² / ndf 1.472e+05 / 41
p0 121.7 ± 0.1468
350
300
250
200
150
100
50
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5


asym_atr_dd_mean vs run
×10^3
χ² / ndf 33.28 / 41
p0 −2.395e+04 ± 9870
pull
Entries 42
Mean −1669
Std Dev 1688


pull1D
Entries 42
Mean 0.001701
Std Dev 0.8902


asym_atr_dd_rms vs run
χ² / ndf 31.71 / 41
p0 6375 ± 6.979
6550
6500
6450
6400
6350
6300
6250
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5


reg_asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 36.01 / 41
p0 −7028 ± 8829
200
150
100
50
0
−50
−100
−150
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
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4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
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4932. 2
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4932. 4
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4933. 1
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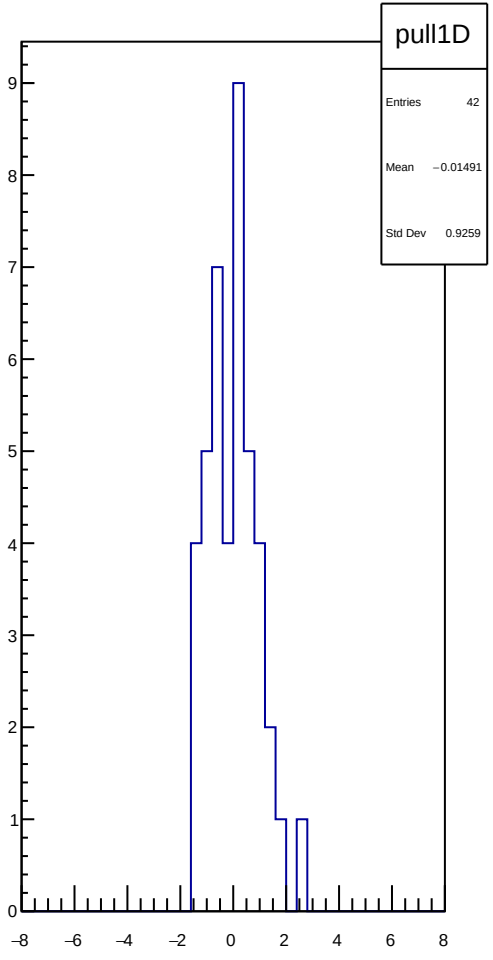
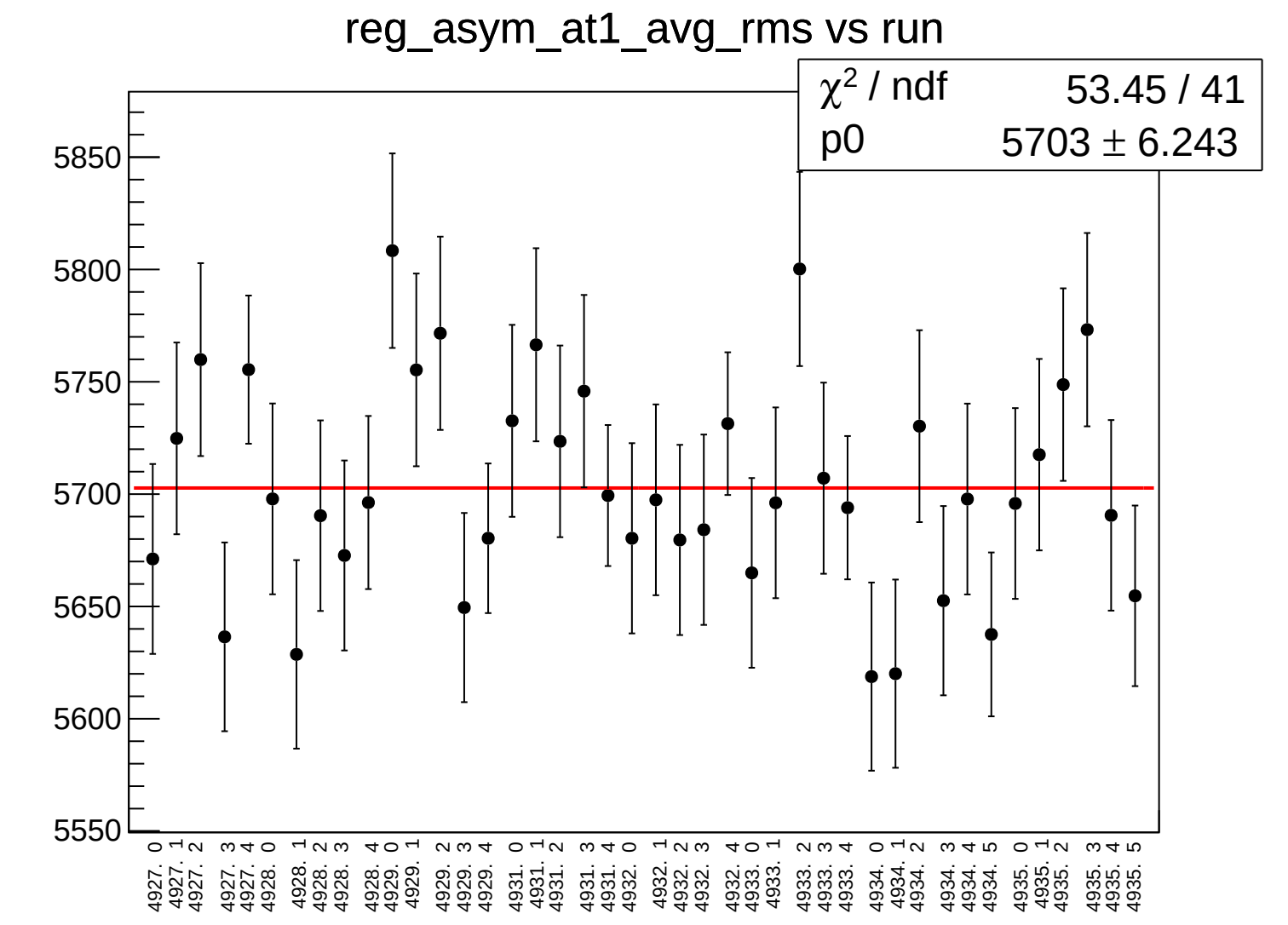
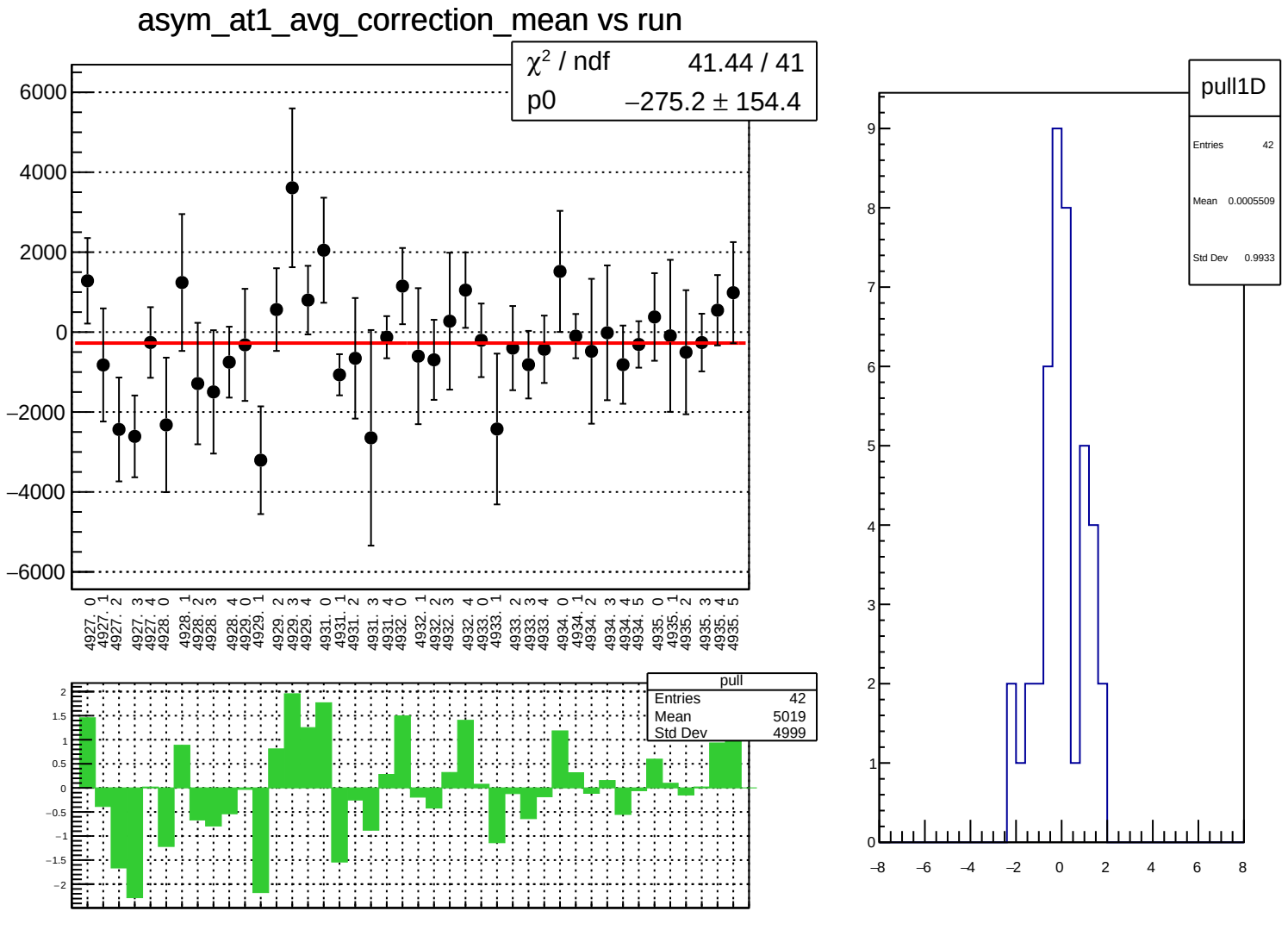
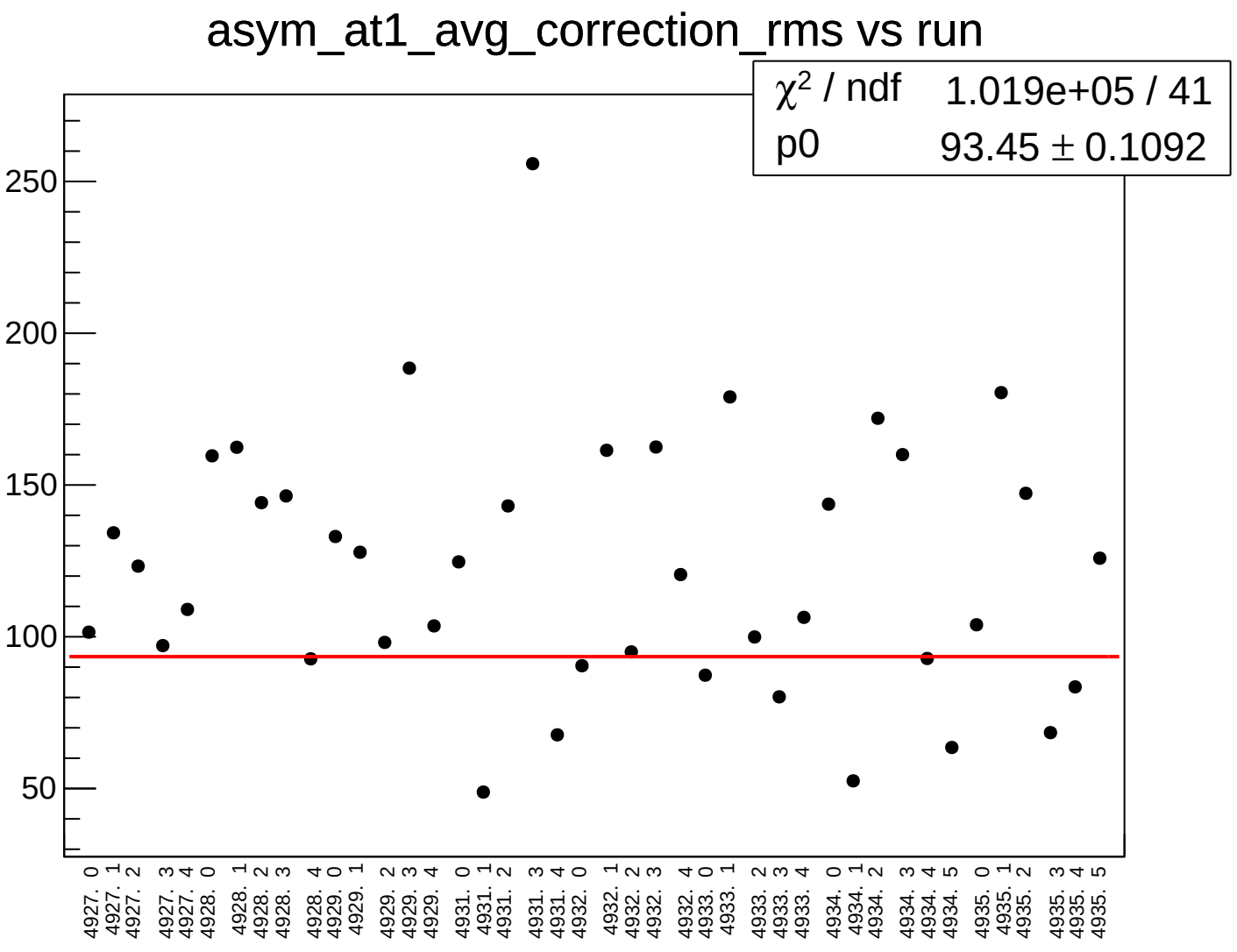
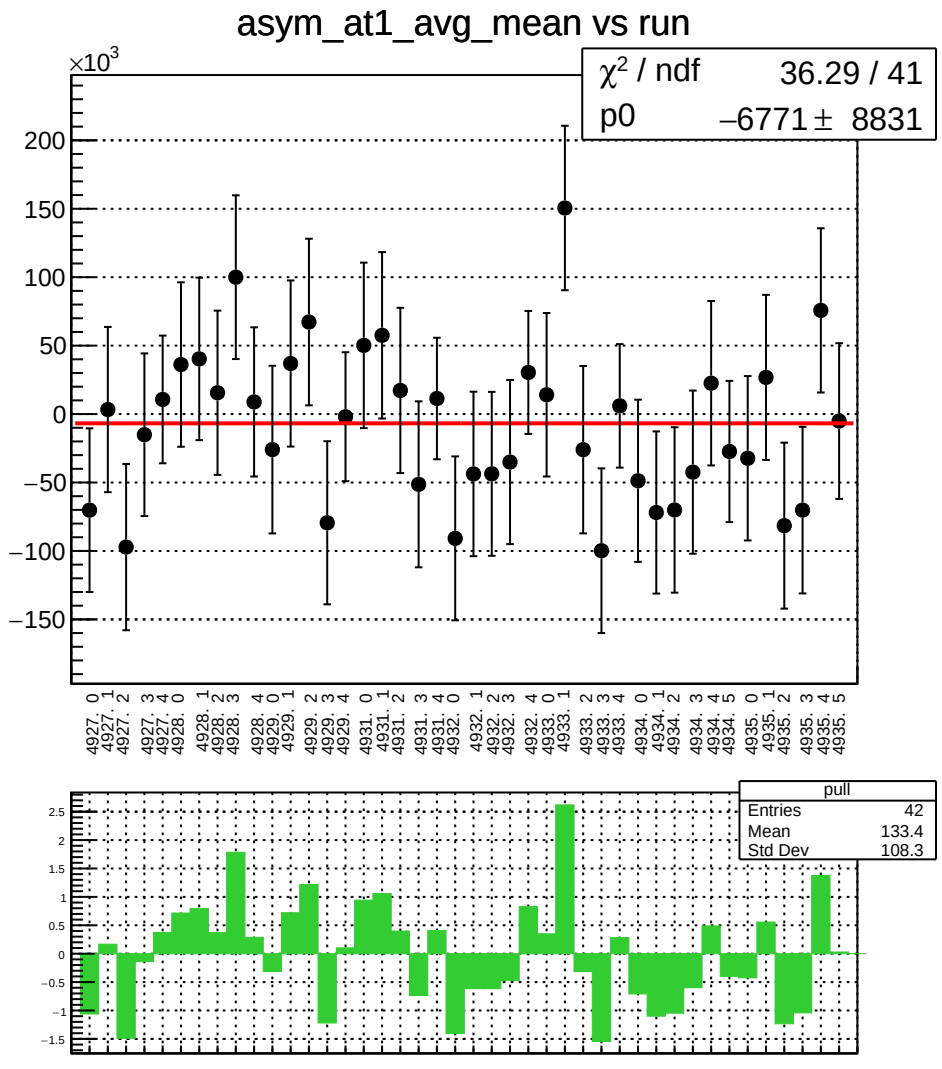
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935.
pull
Entries 42
Mean 126.5
Std Dev 101.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

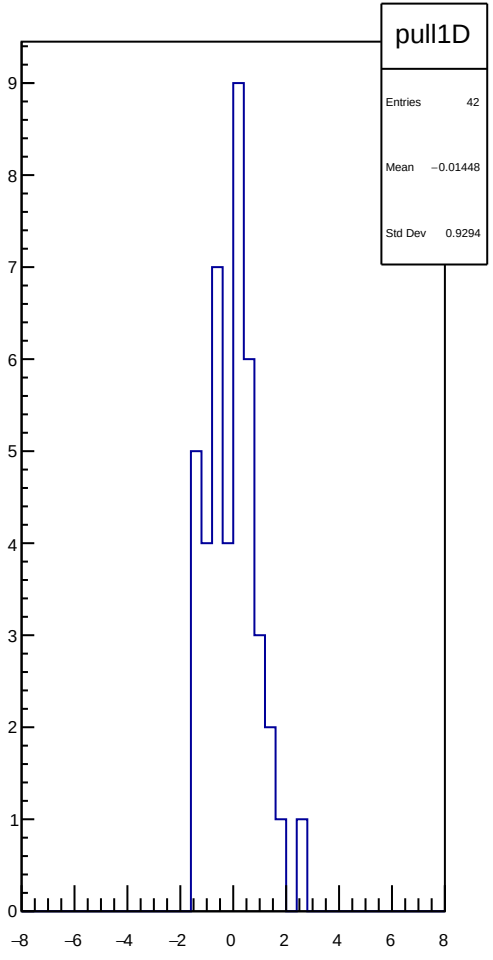

pull1D
Entries 42
Mean −0.01491
Std Dev 0.9259
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

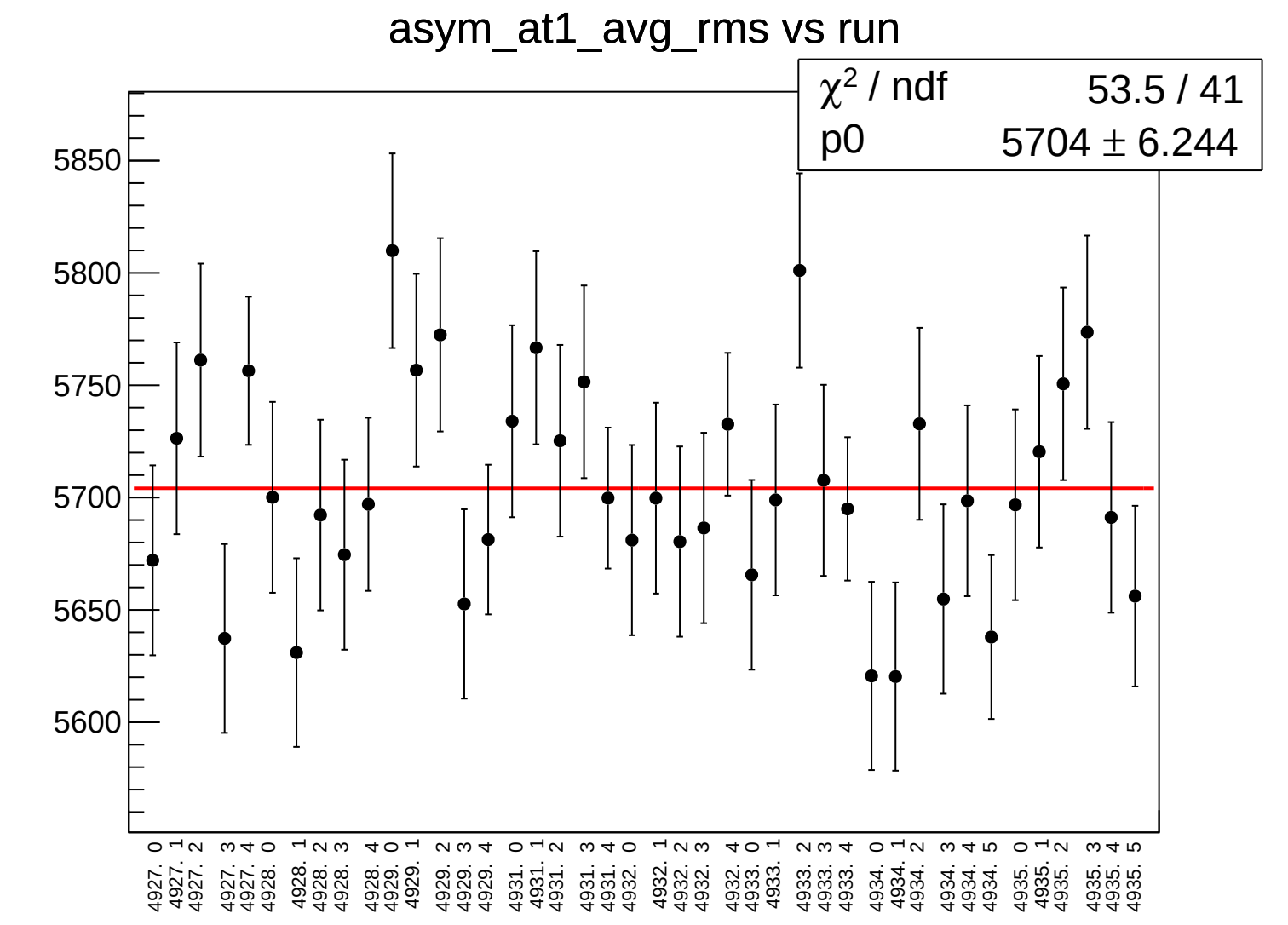

reg_asym_at1_avg_rms vs run
χ² / ndf 53.45 / 41
p0 5703 ± 6.243
5850
5800
5750
5700
5650
5600
5550
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

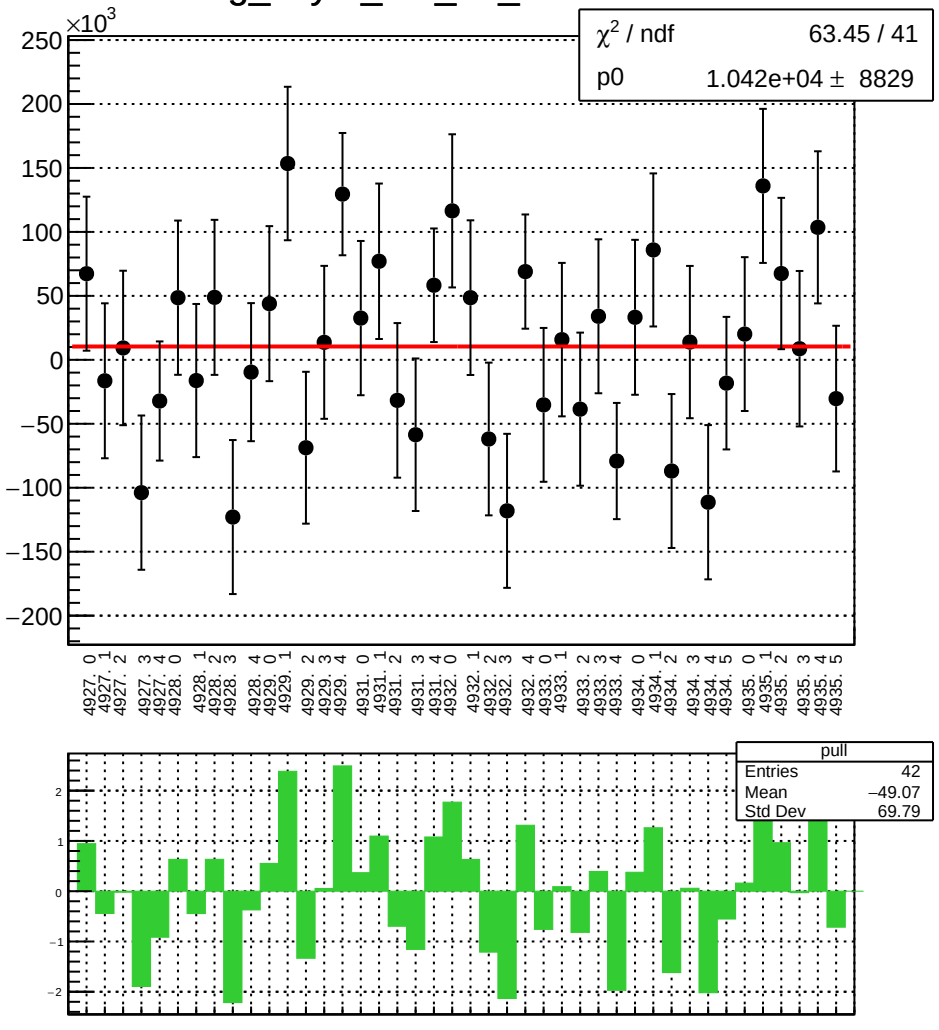

asym_at1_avg_correction_mean vs run
χ² / ndf 41.44 / 41
p0 −275.2 ± 154.4
6000
4000
2000
0
−2000
−4000
−6000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 5019
Std Dev 4999
pull1D
Entries 42
Mean 0.0005509
Std Dev 0.9933

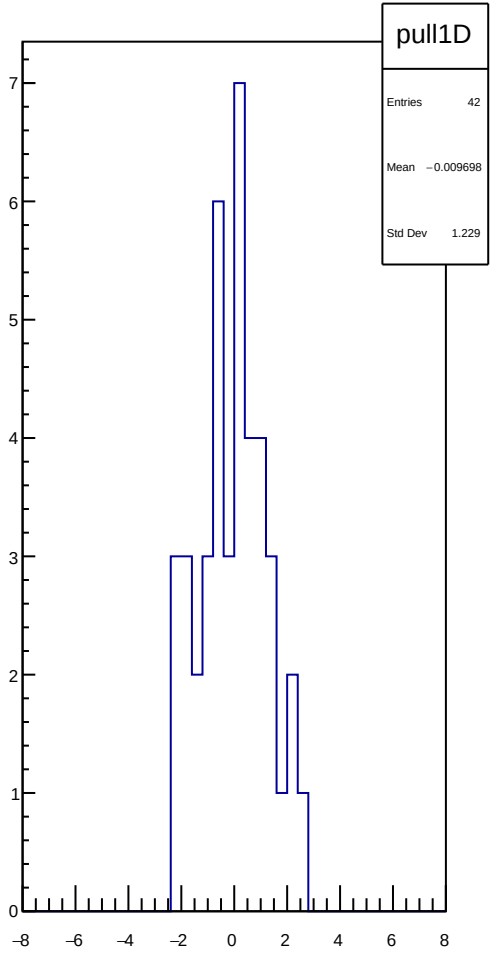

asym_at1_avg_correction_rms vs run
χ² / ndf 1.019e+05 / 41
p0 93.45 ± 0.1092
250
200
150
100
50
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

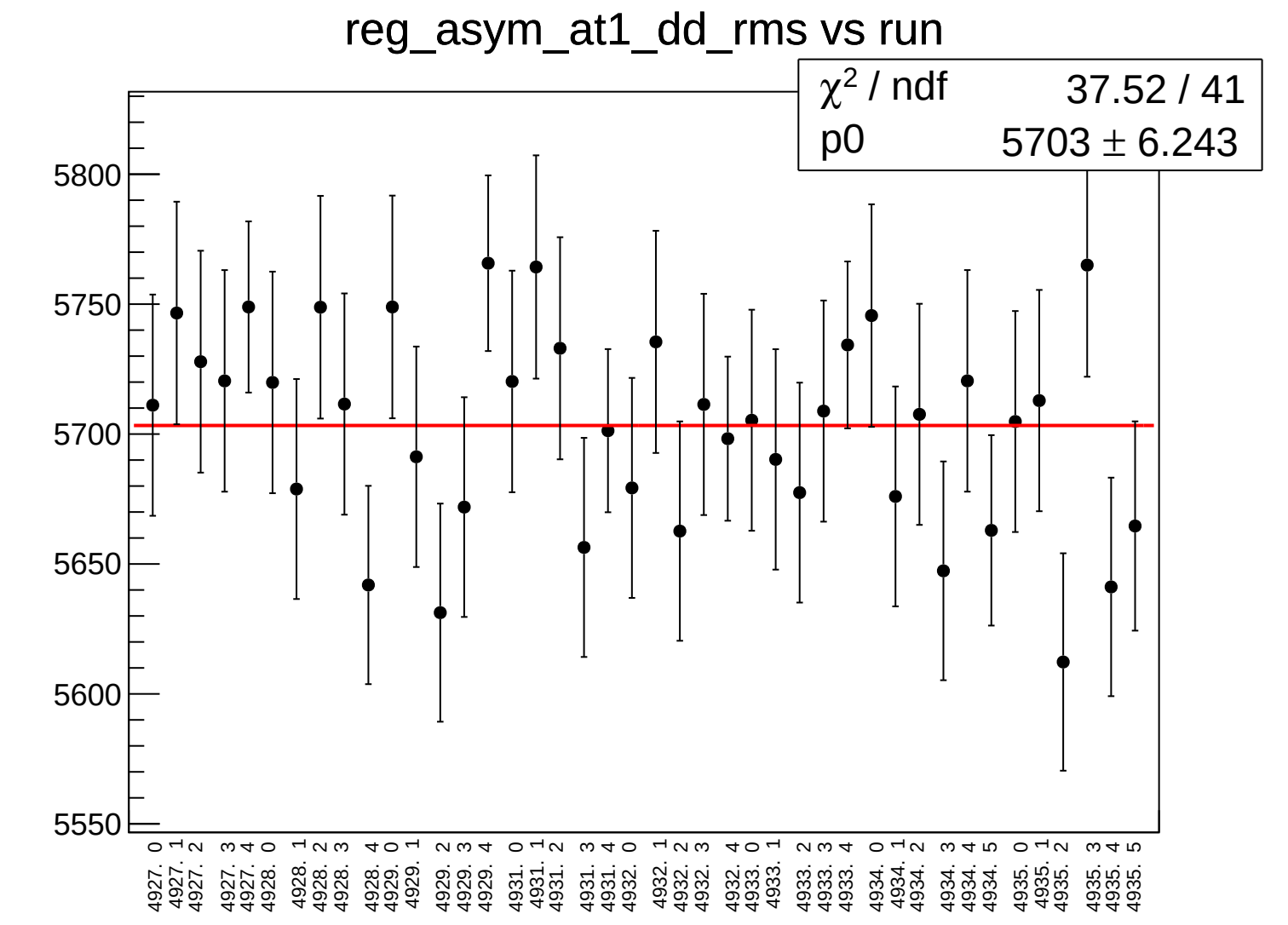

asym_at1_avg_mean vs run
×10^3
χ² / ndf 36.29 / 41
p0 −6771 ± 8831
200
150
100
50
0
−50
−100
−150
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 133.4
Std Dev 108.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

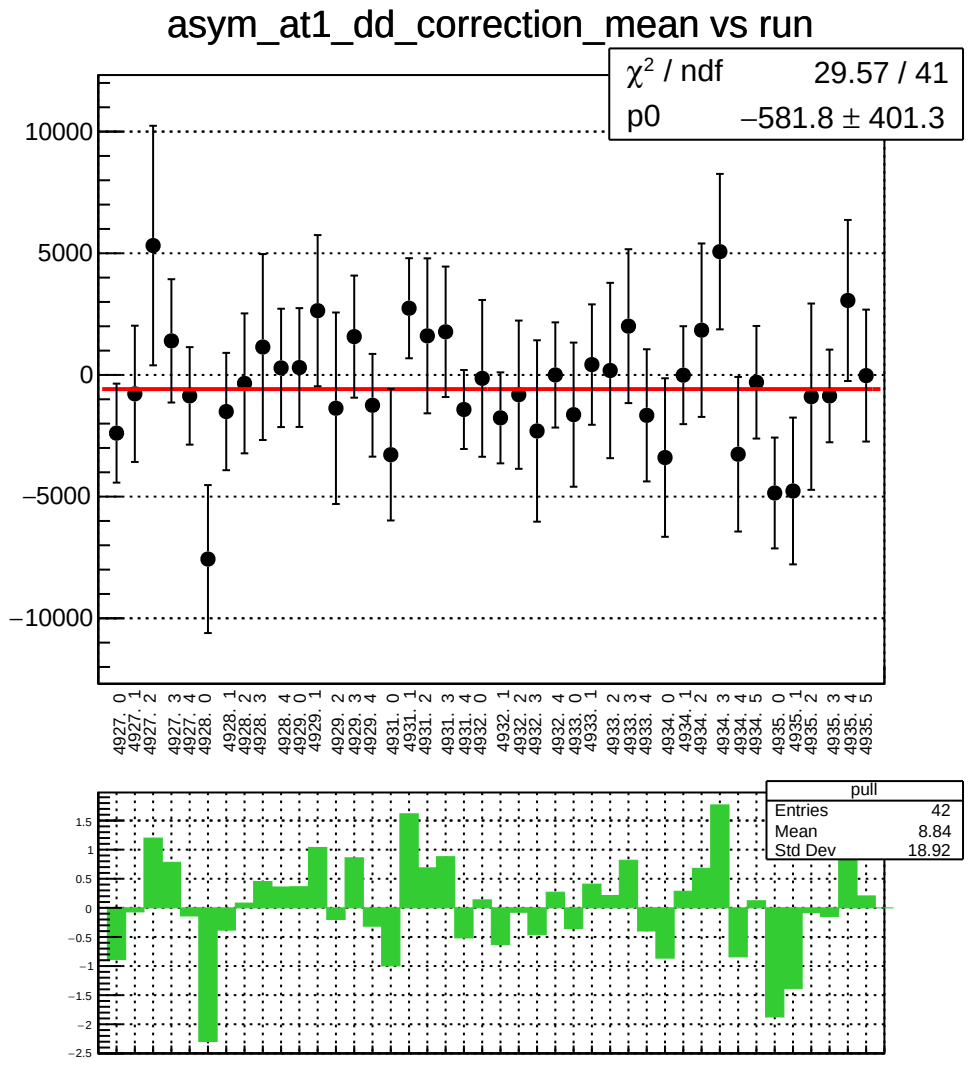

pull1D
Entries 42
Mean −0.01448
Std Dev 0.9294
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

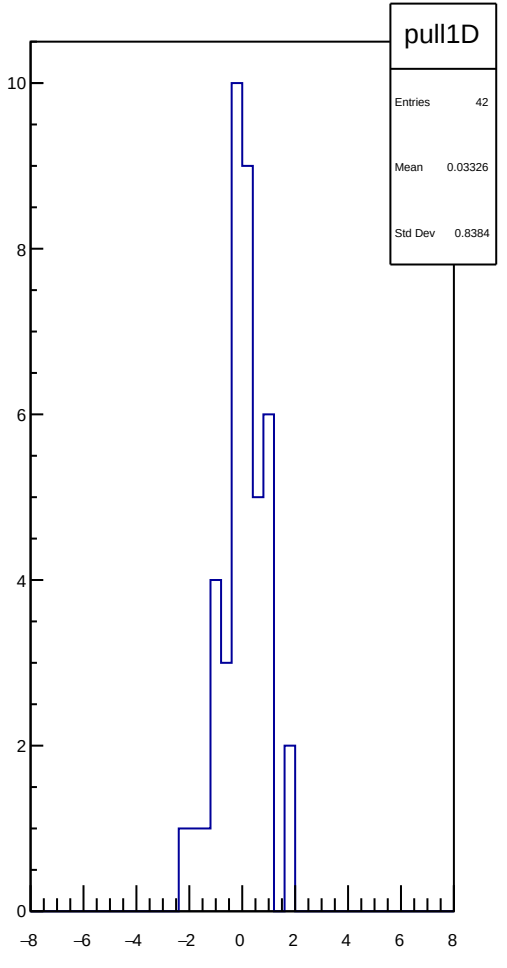

asym_at1_avg_rms vs run
χ² / ndf 53.5 / 41
p0 5704 ± 6.244
5850
5800
5750
5700
5650
5600
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

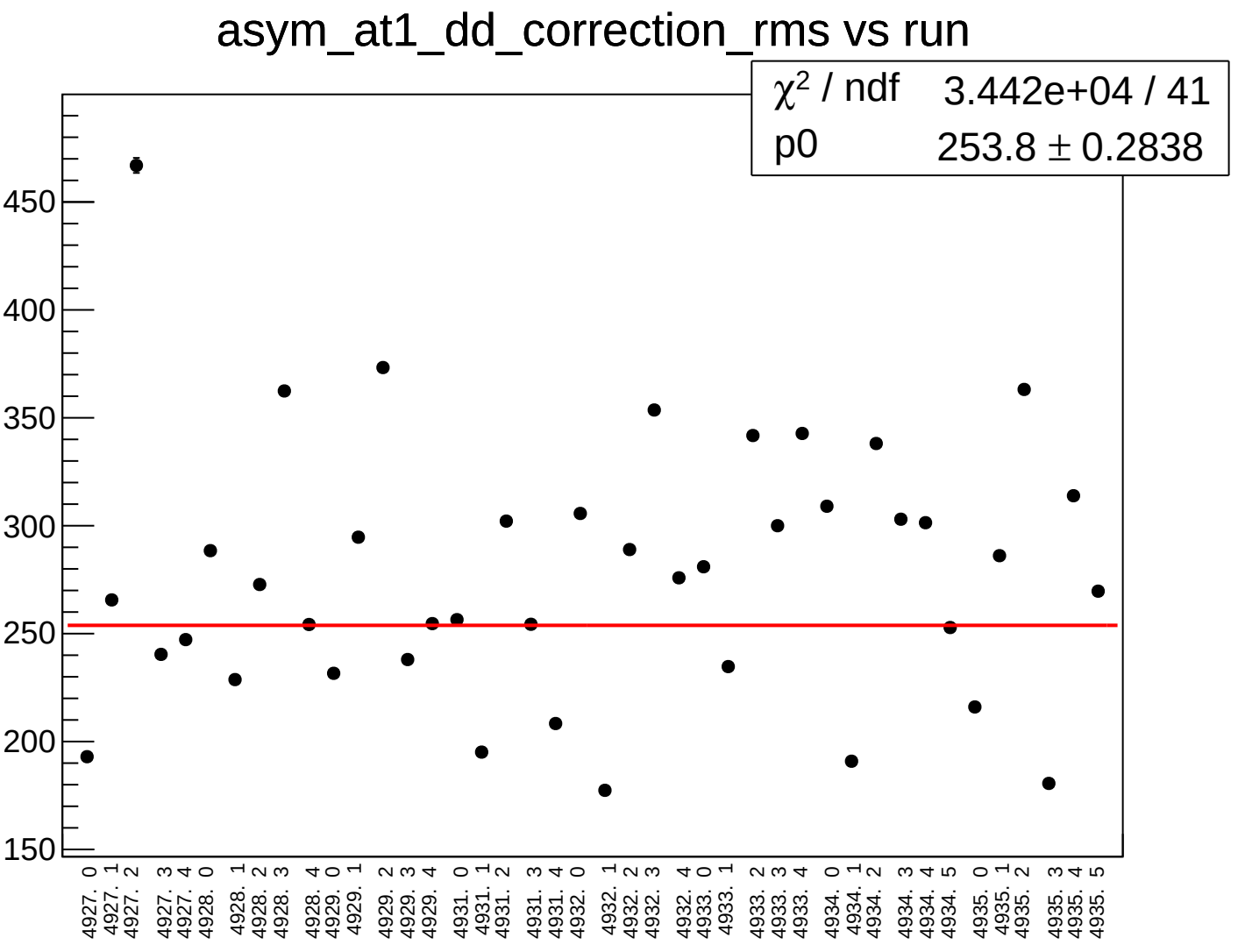

reg_asym_at1_dd_mean vs run
×10^3
χ² / ndf 63.45 / 41
p0 1.042e+04 ± 8829
pull
Entries 42
Mean −49.07
Std Dev 69.79

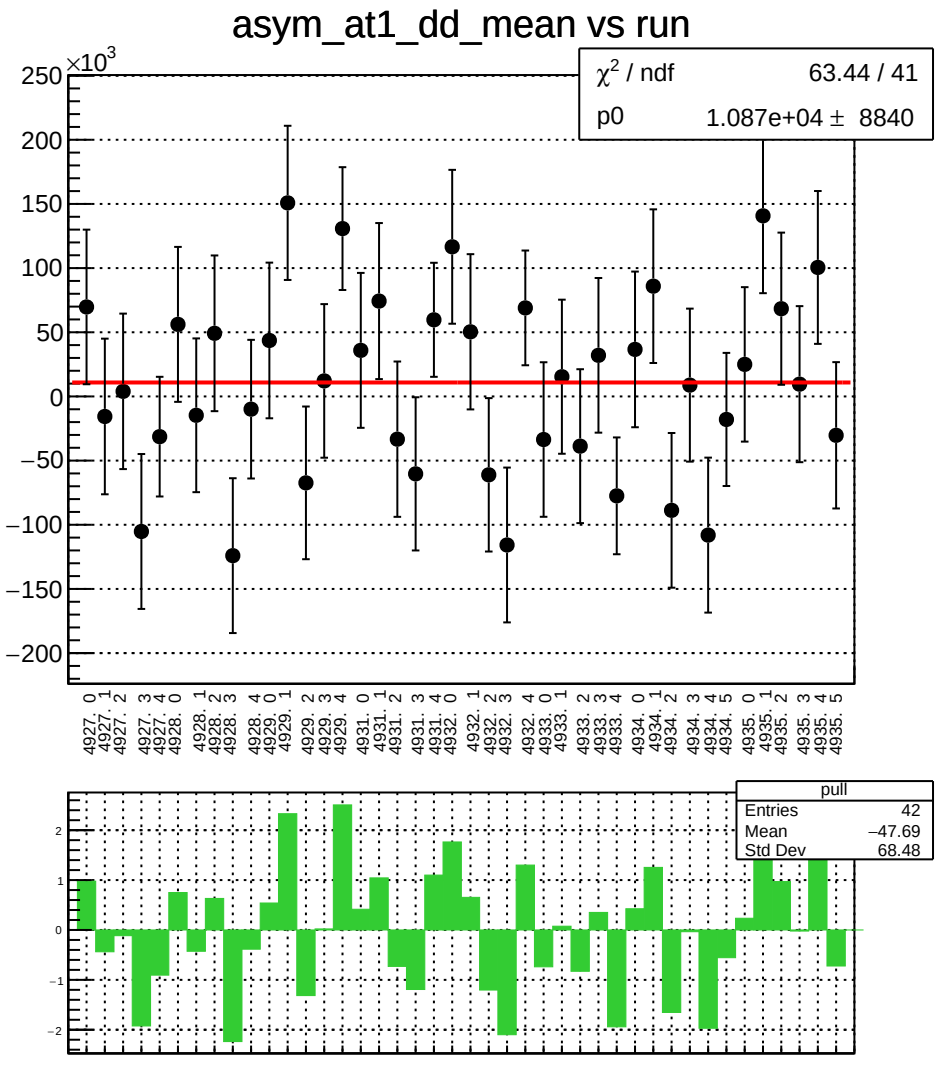

pull1D
Entries 42
Mean −0.009698
Std Dev 1.229

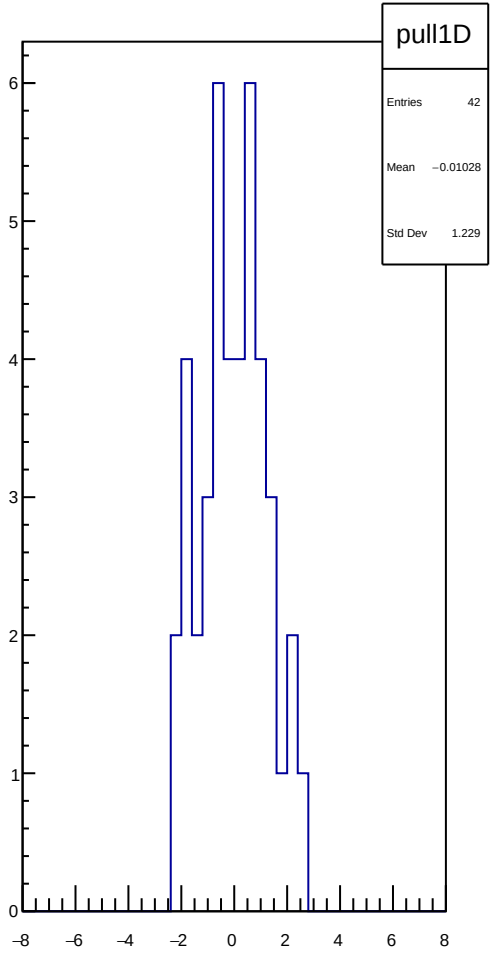

reg_asym_at1_dd_rms vs run
χ² / ndf 37.52 / 41
p0 5703 ± 6.243
5800
5750
5700
5650
5600
5550
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

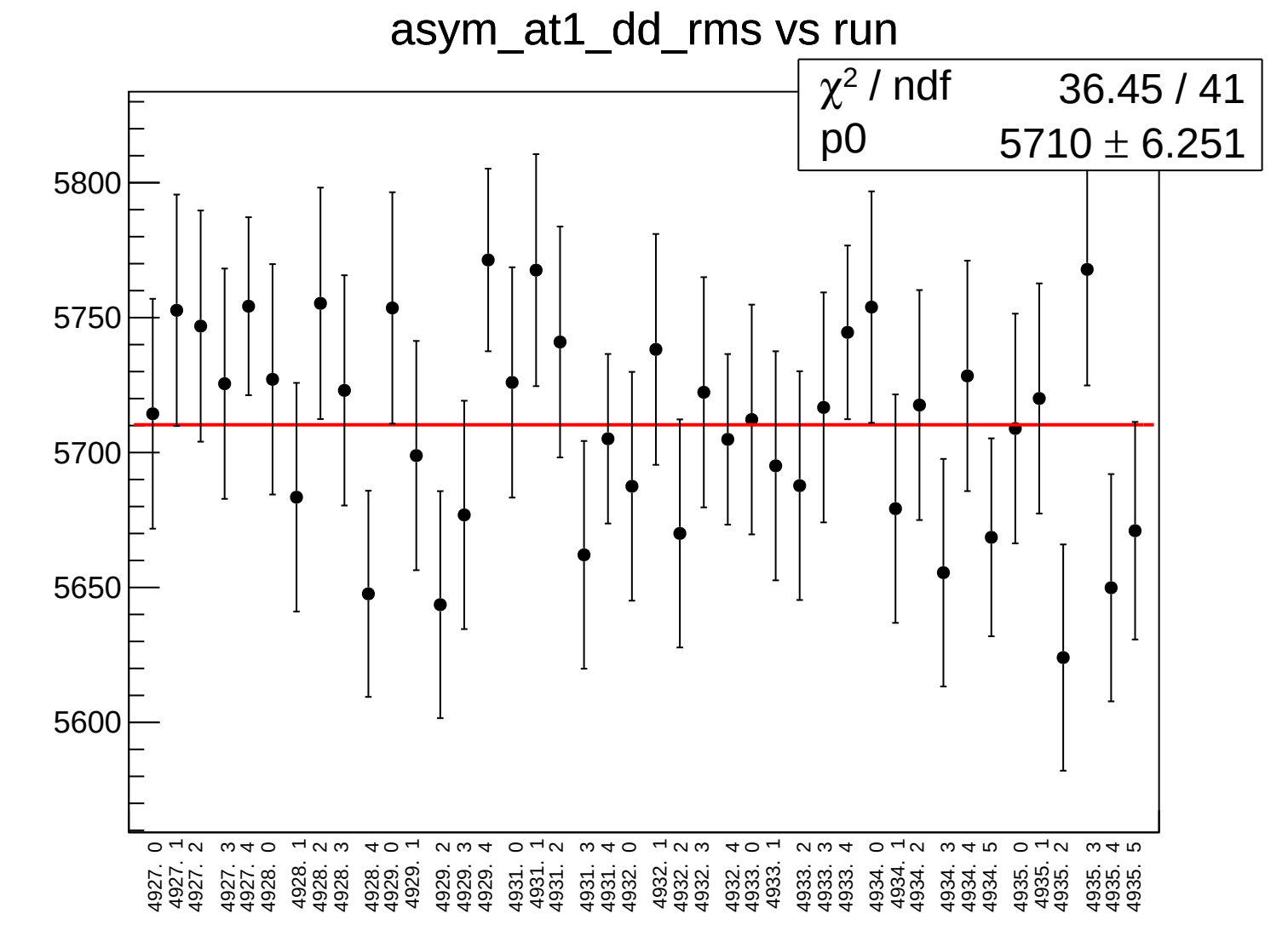

asym_at1_dd_correction_mean vs run
χ² / ndf 29.57 / 41
p0 −581.8 ± 401.3
10000
5000
0
−5000
−10000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 8.84
Std Dev 18.92
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

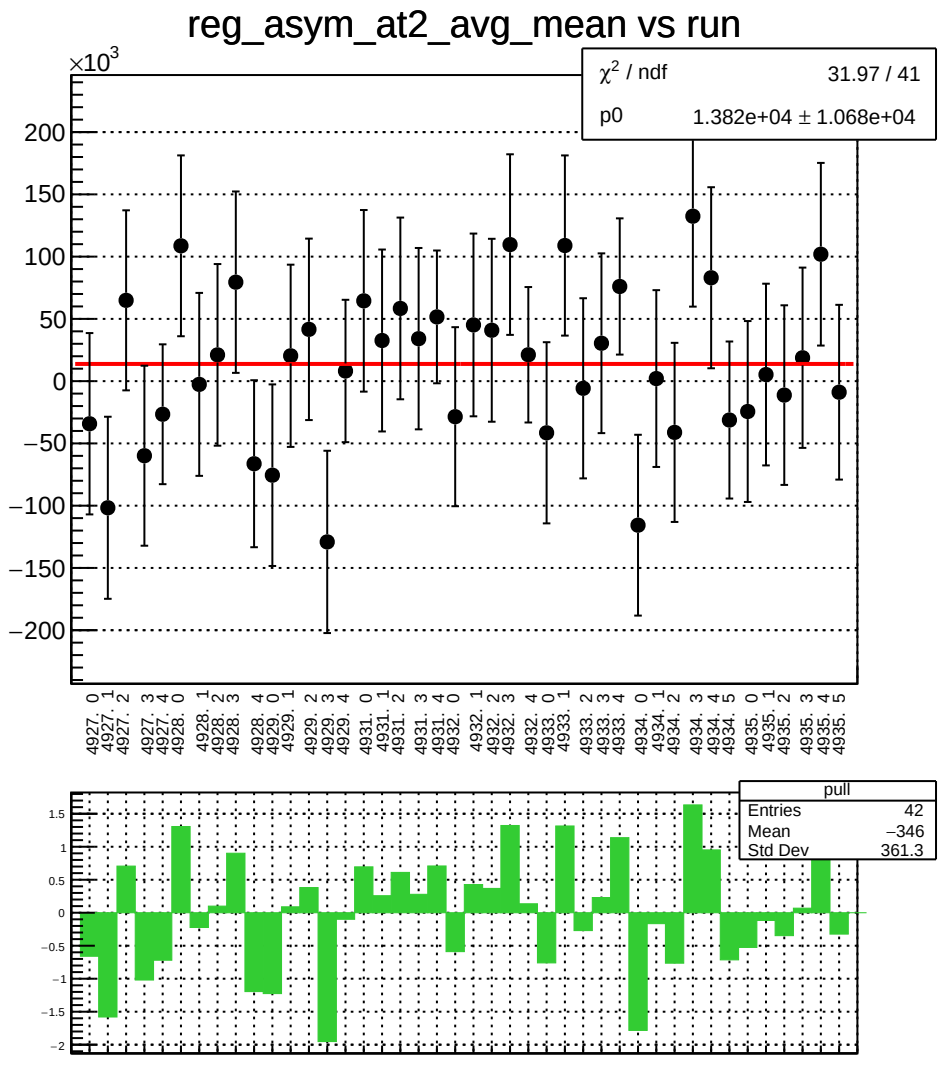

pull1D
Entries 42
Mean 0.03326
Std Dev 0.8384
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

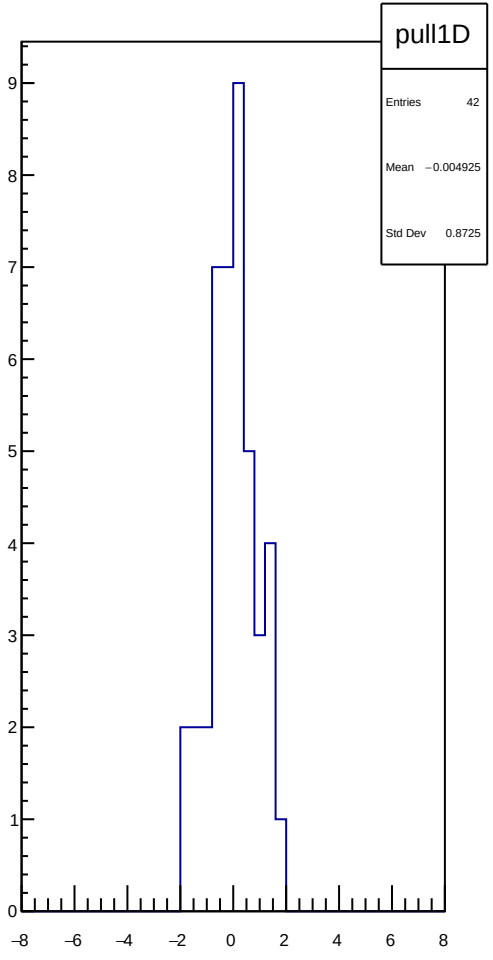

asym_at1_dd_correction_rms vs run
χ² / ndf 3.442e+04 / 41
p0 253.8 ± 0.2838
450
400
350
300
250
200
150
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

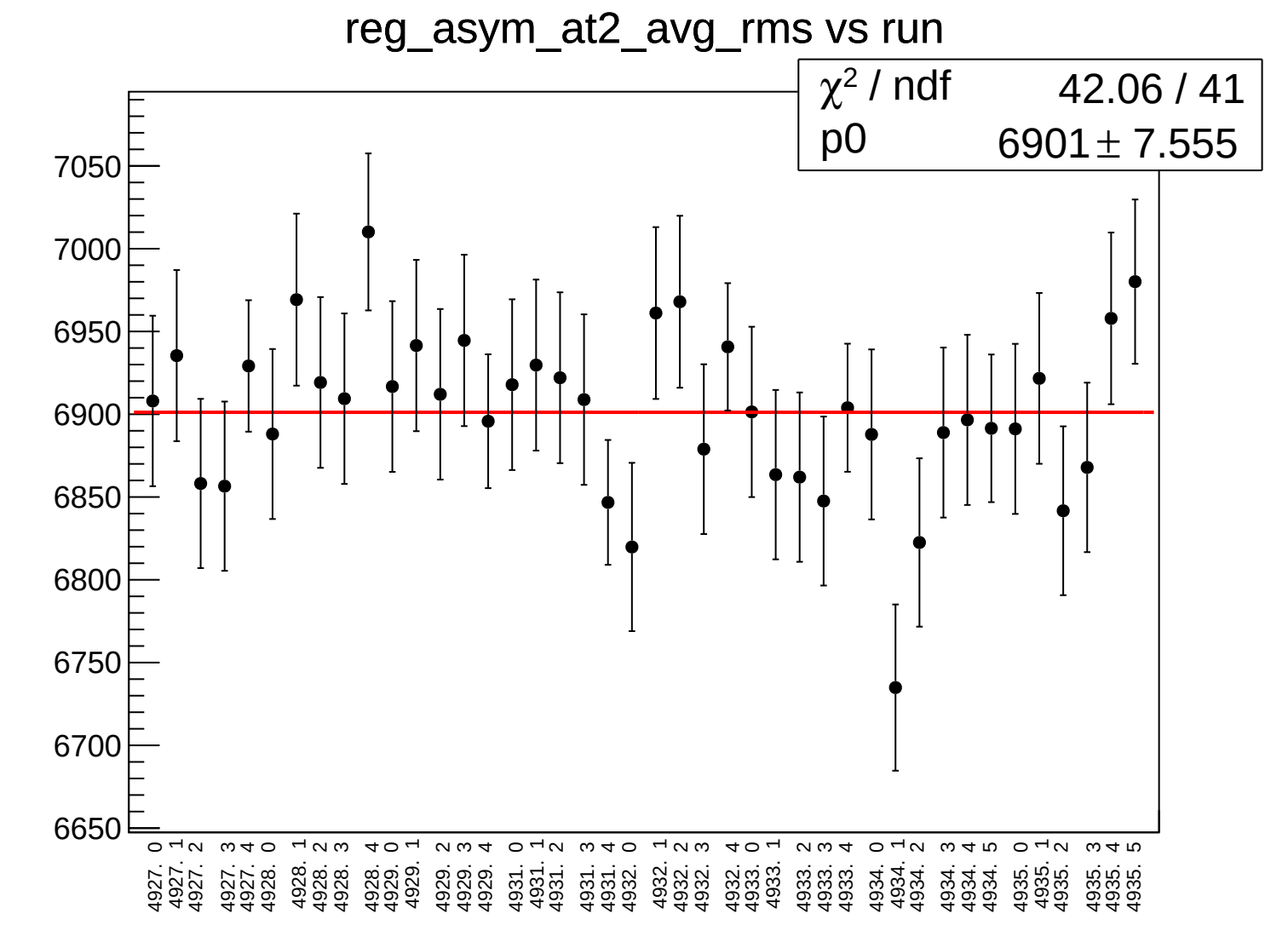

asym_at1_dd_mean vs run
×10^3
χ² / ndf 63.44 / 41
p0 1.087e+04 ± 8840
pull
Entries 42
Mean −47.69
Std Dev 68.48

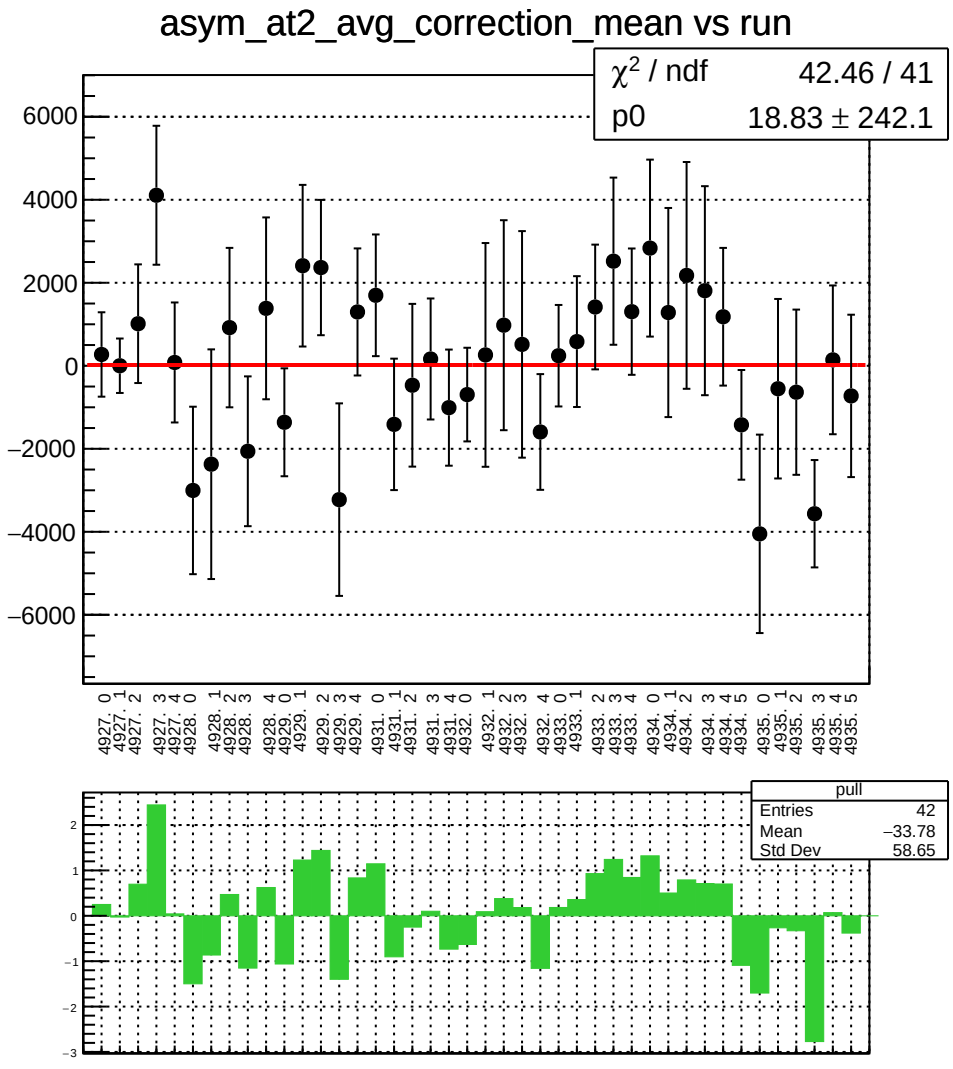

pull1D
Entries 42
Mean −0.01028
Std Dev 1.229

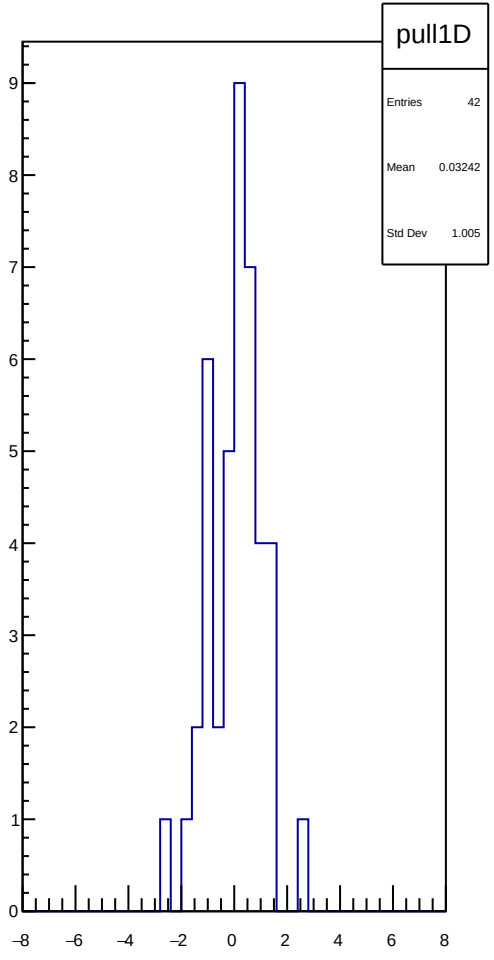

asym_at1_dd_rms vs run
χ² / ndf 36.45 / 41
p0 5710 ± 6.251
5800
5750
5700
5650
5600
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

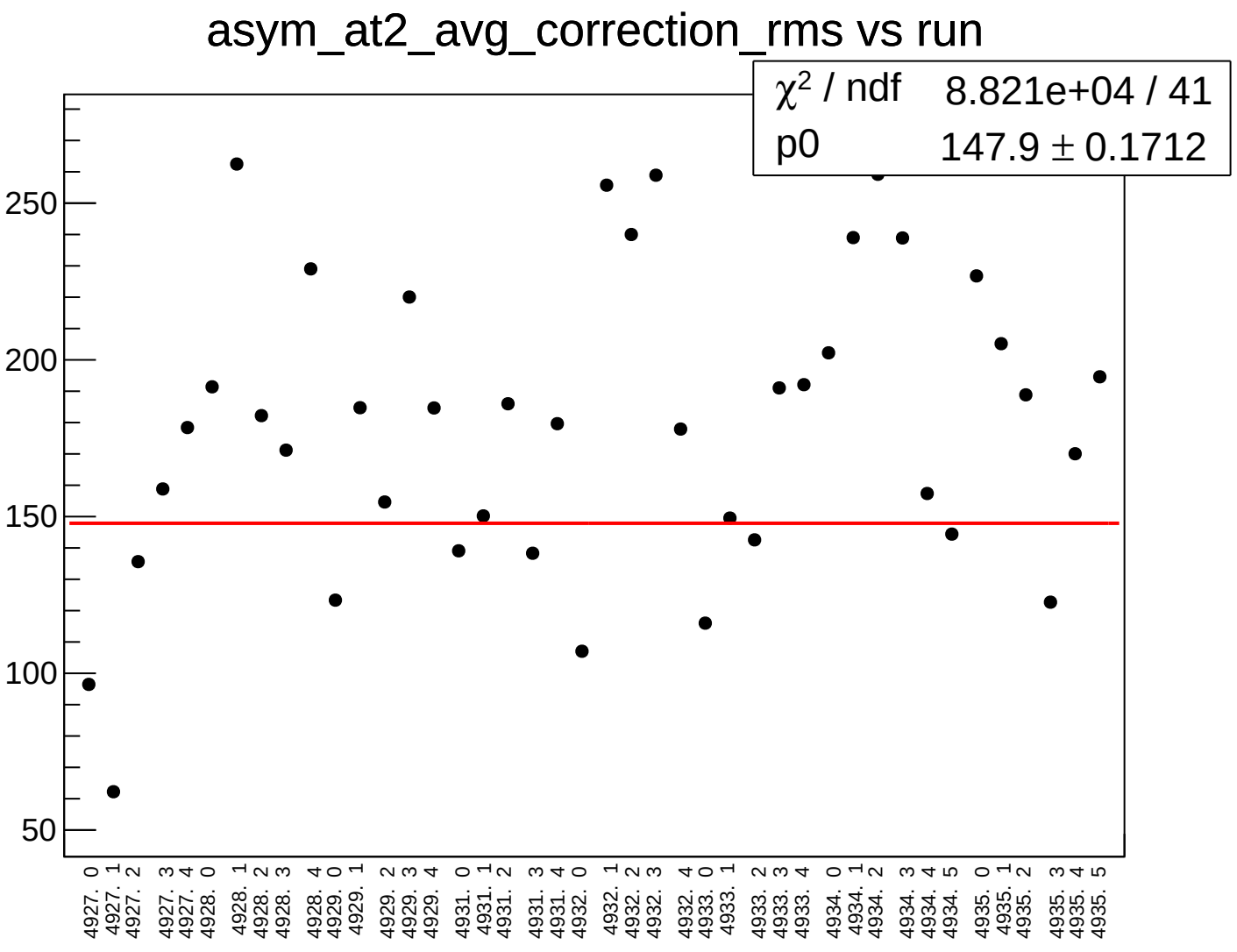

reg_asym_at2_avg_mean vs run
×10^3
χ² / ndf 31.97 / 41
p0 1.382e+04 ± 1.068e+04
200
150
100
50
0
−50
−100
−150
−200
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −346
Std Dev 361.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

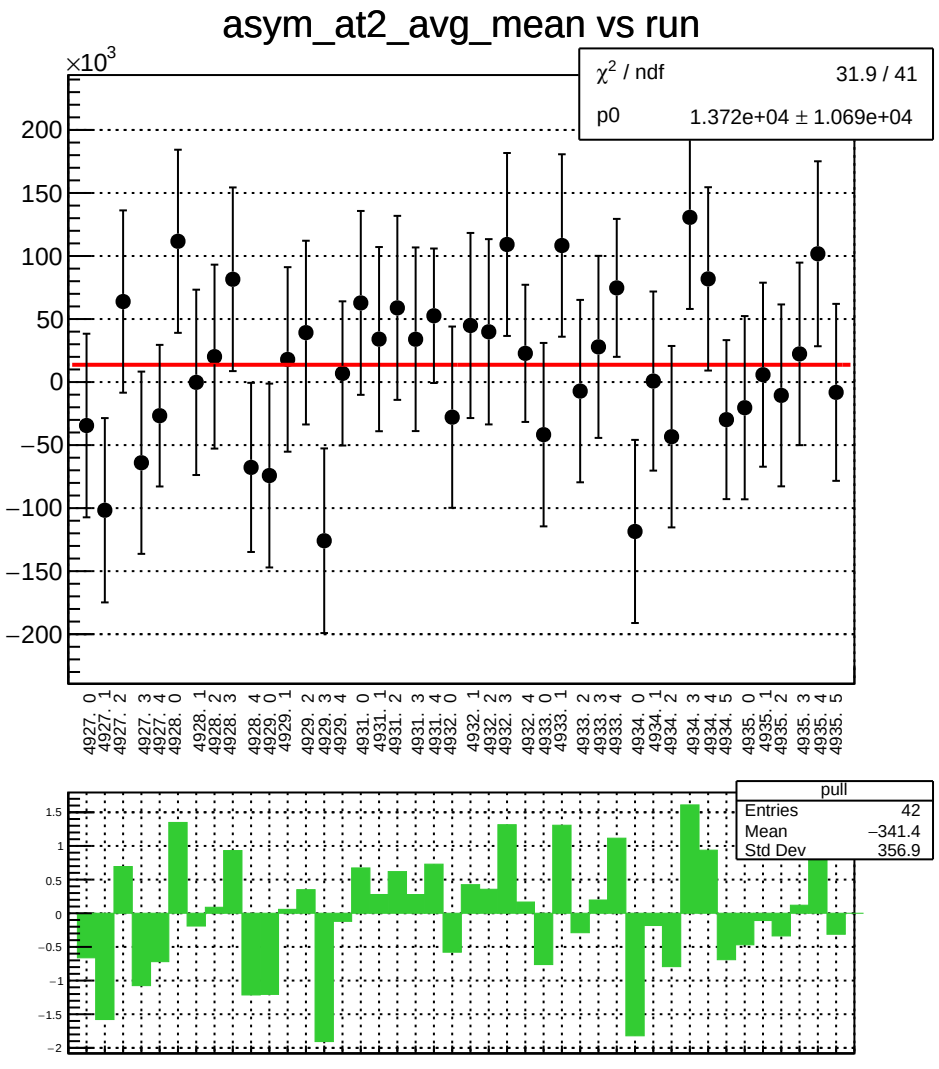

pull1D
Entries 42
Mean −0.004925
Std Dev 0.8725
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

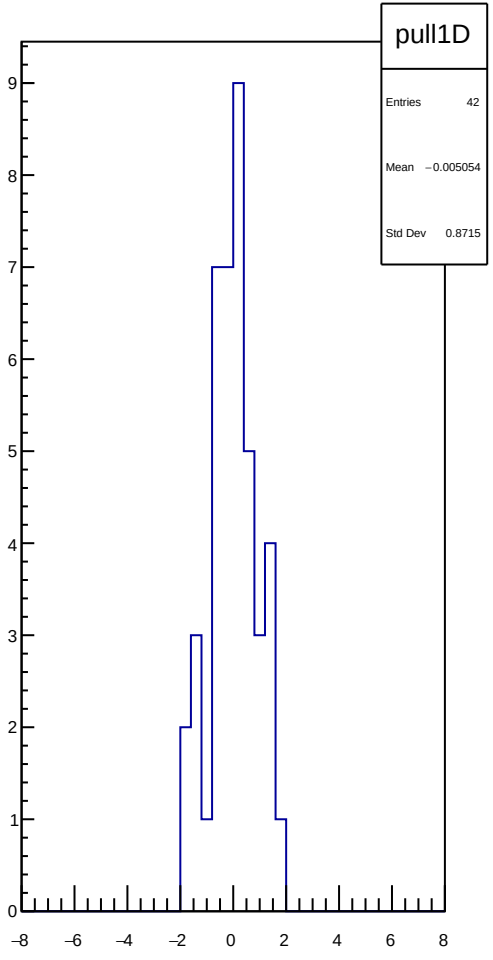

reg_asym_at2_avg_rms vs run
χ² / ndf 42.06 / 41
p0 6901 ± 7.555
7050
7000
6950
6900
6850
6800
6750
6700
6650
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

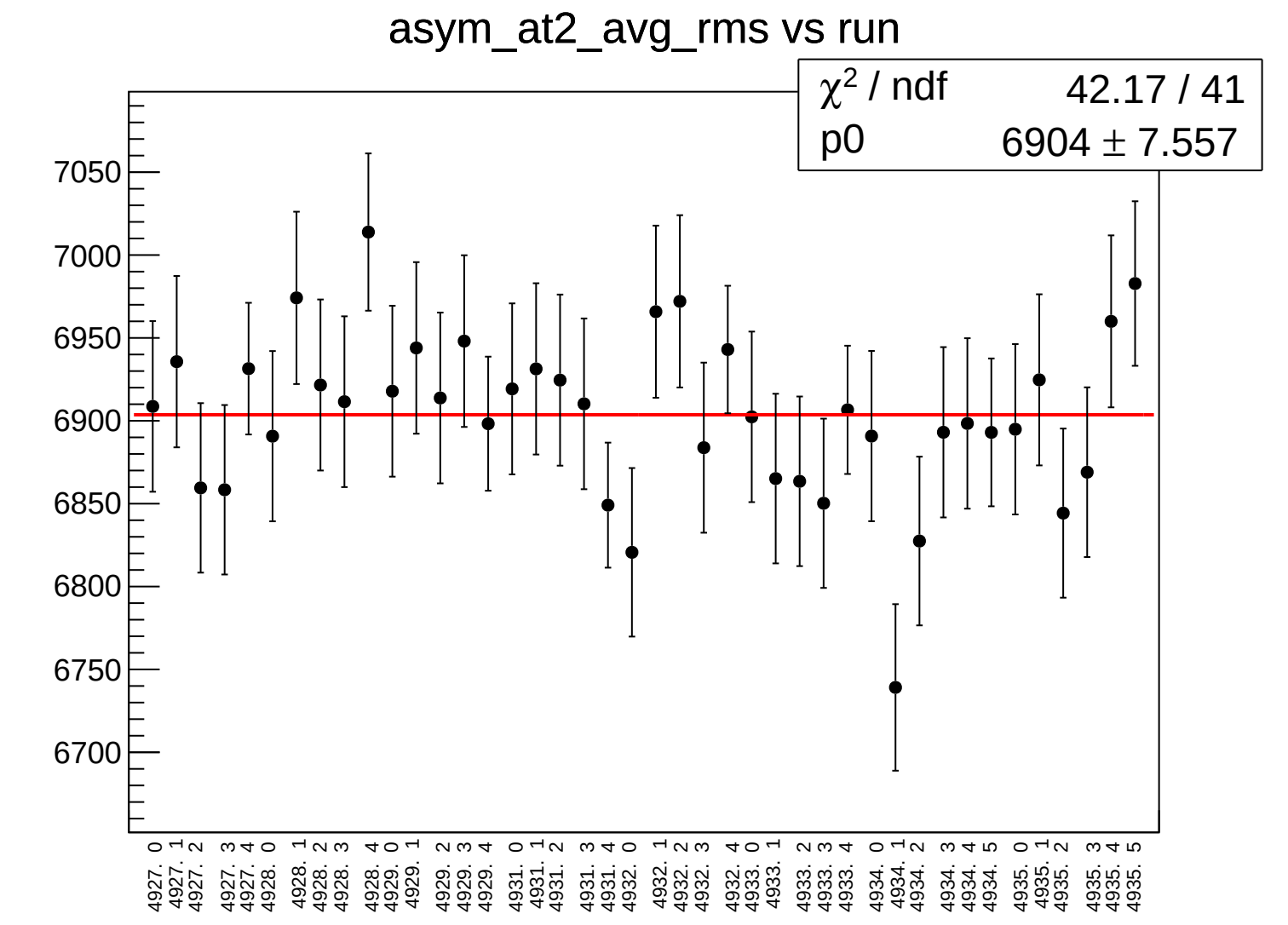

asym_at2_avg_correction_mean vs run
χ² / ndf 42.46 / 41
p0 18.83 ± 242.1
6000
4000
2000
0
−2000
−4000
−6000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935.
pull
Entries 42
Mean −33.78
Std Dev 58.65
2
1
0
−1
−2
−3

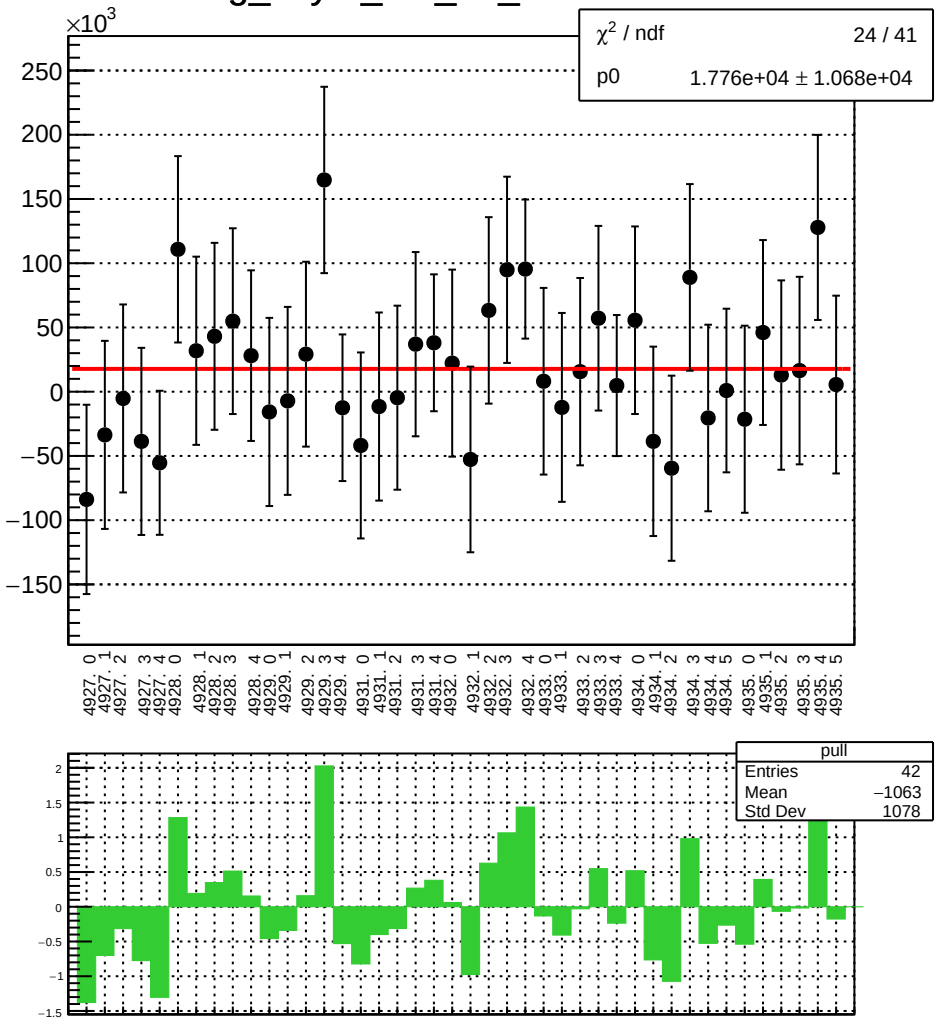

pull1D
Entries 42
Mean 0.03242
Std Dev 1.005
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

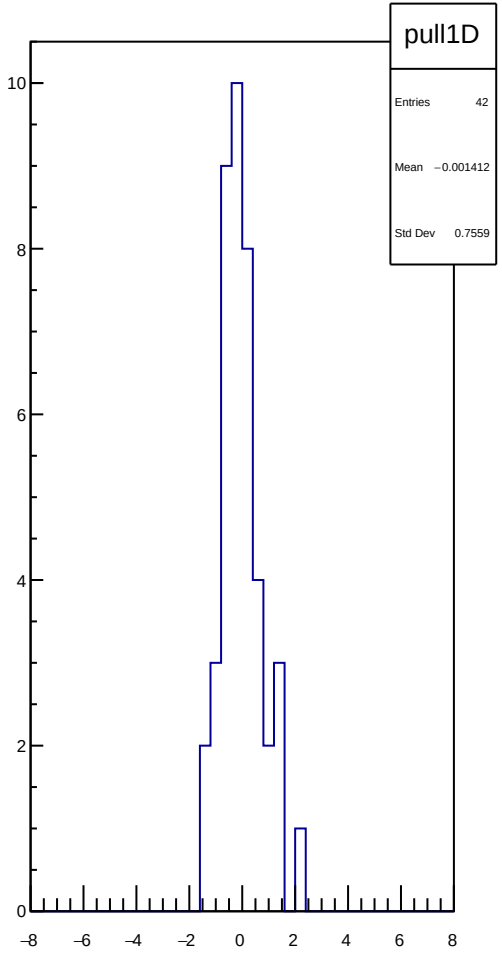

asym_at2_avg_correction_rms vs run
χ² / ndf 8.821e+04 / 41
p0 147.9 ± 0.1712
250
200
150
100
50
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

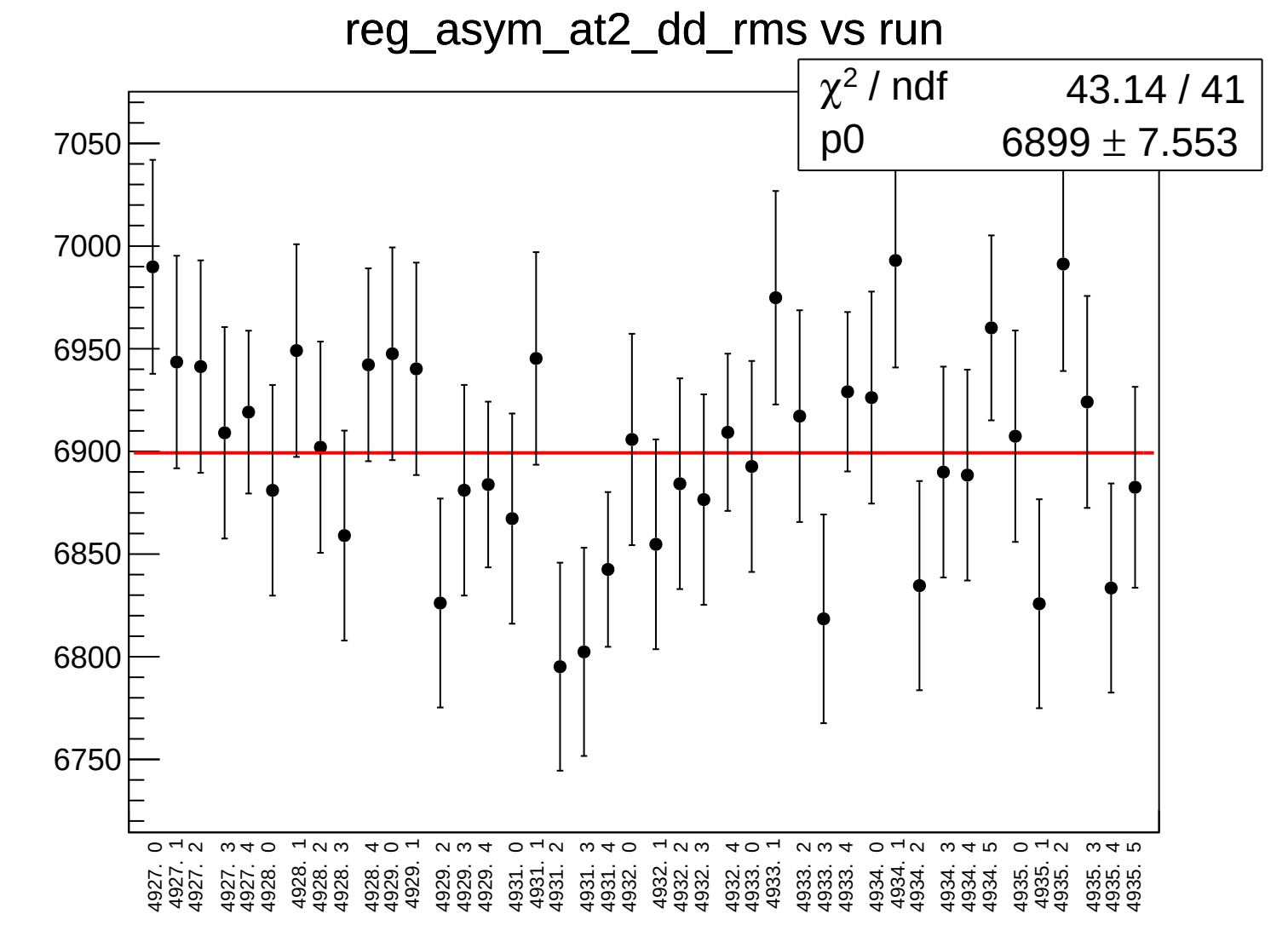

asym_at2_avg_mean vs run
×10^3
χ² / ndf 31.9 / 41
p0 1.372e+04 ± 1.069e+04
200
150
100
50
0
−50
−100
−150
−200
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −341.4
Std Dev 356.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

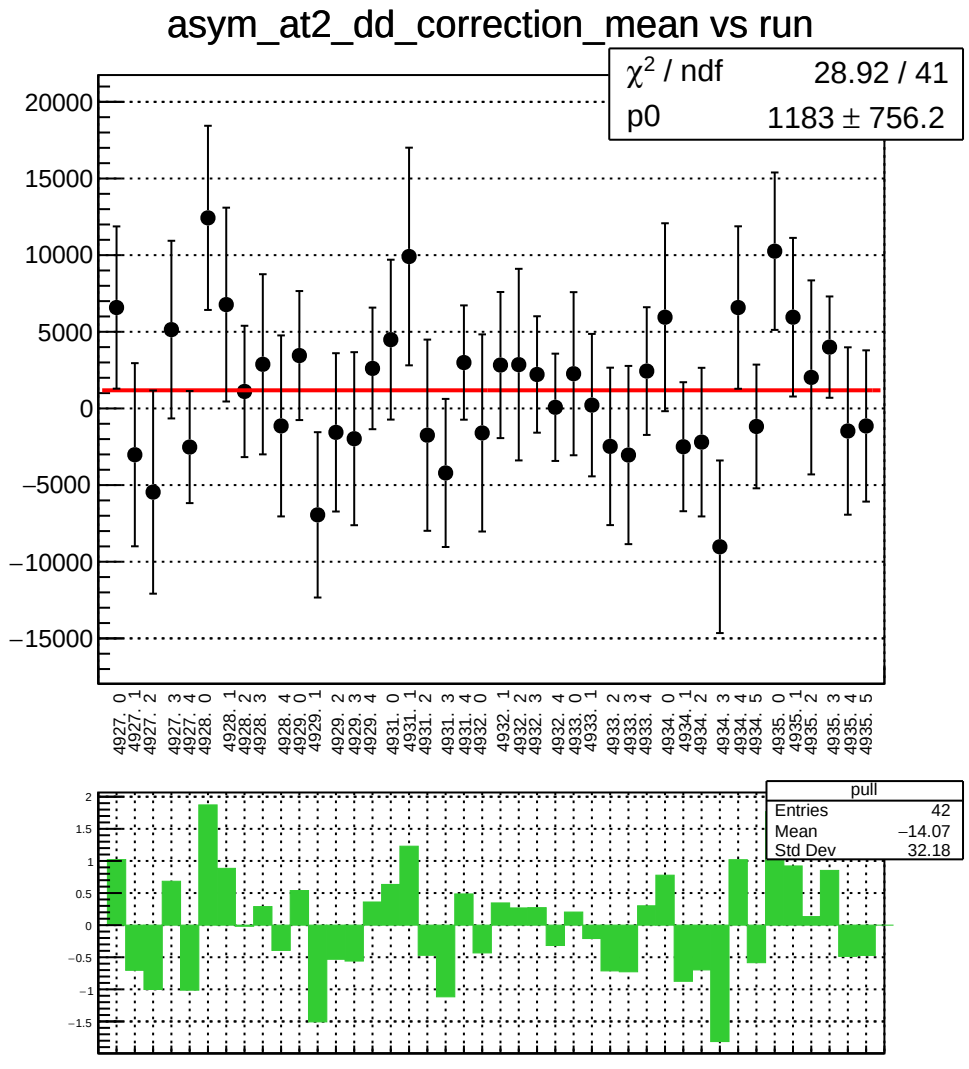

pull1D
Entries 42
Mean −0.005054
Std Dev 0.8715
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

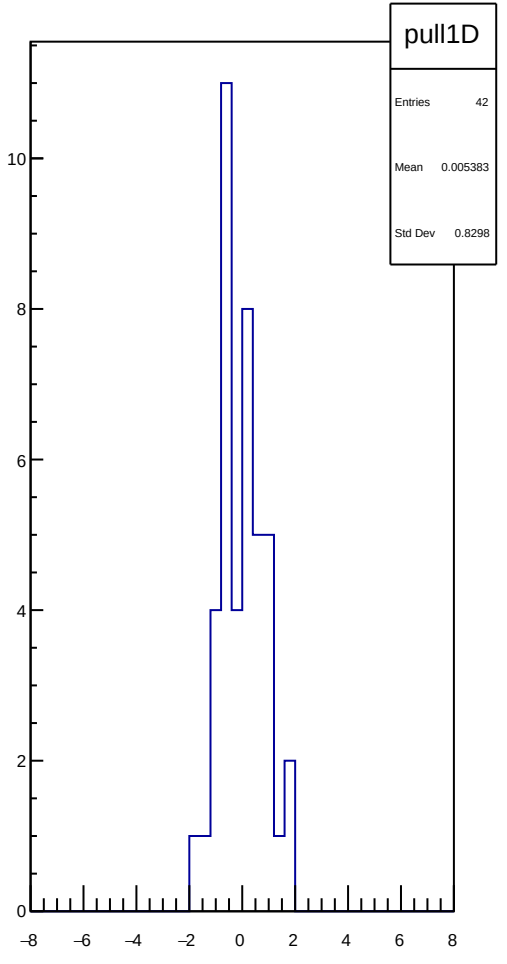

asym_at2_avg_rms vs run
χ² / ndf 42.17 / 41
p0 6904 ± 7.557
7050
7000
6950
6900
6850
6800
6750
6700
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

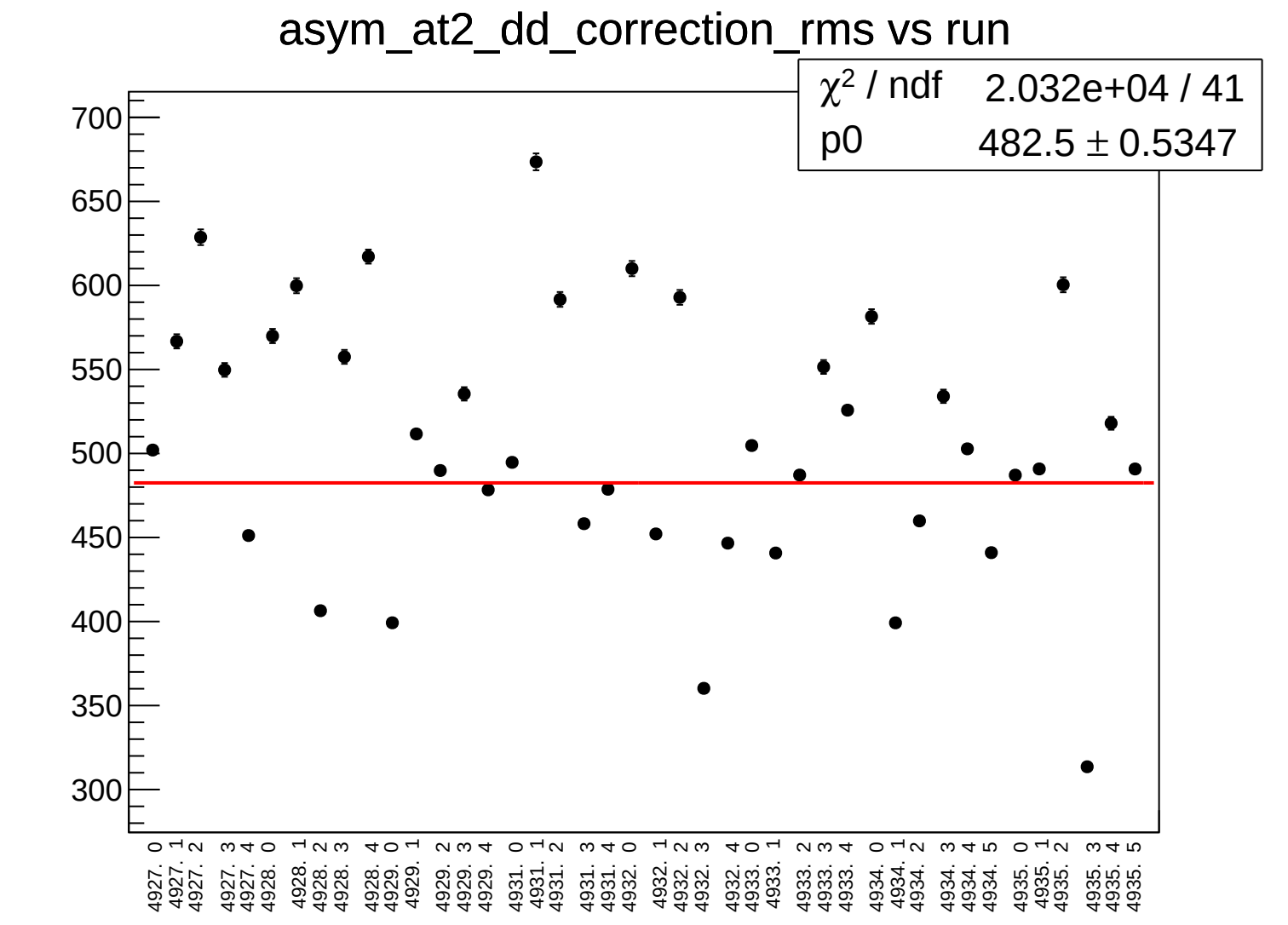

reg_asym_at2_dd_mean vs run
×10^3
χ² / ndf 24 / 41
p0 1.776e+04 ± 1.068e+04
250
200
150
100
50
0
−50
−100
−150
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −1063
Std Dev 1078
2
1.5
1
0.5
0
−0.5
−1
−1.5

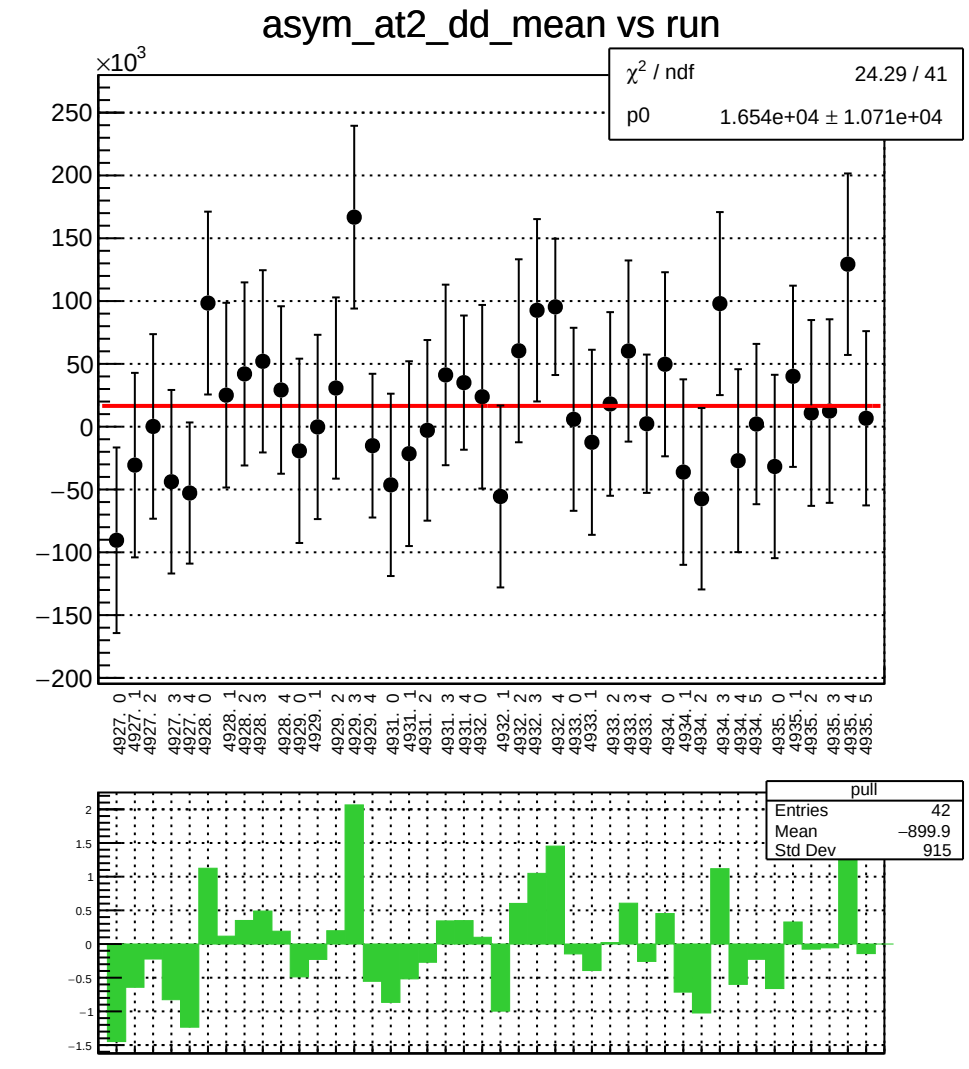

pull1D
Entries 42
Mean −0.001412
Std Dev 0.7559
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

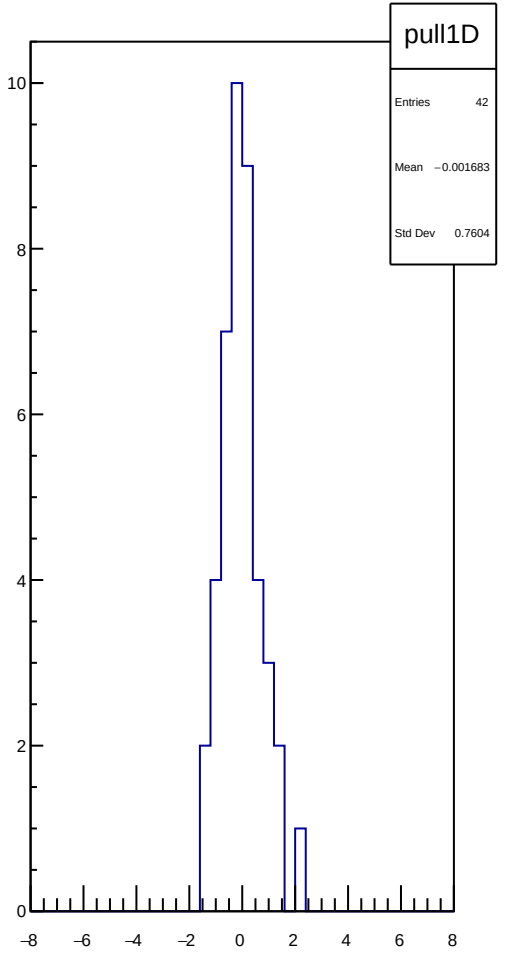

reg_asym_at2_dd_rms vs run
χ² / ndf 43.14 / 41
p0 6899 ± 7.553
7050
7000
6950
6900
6850
6800
6750
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

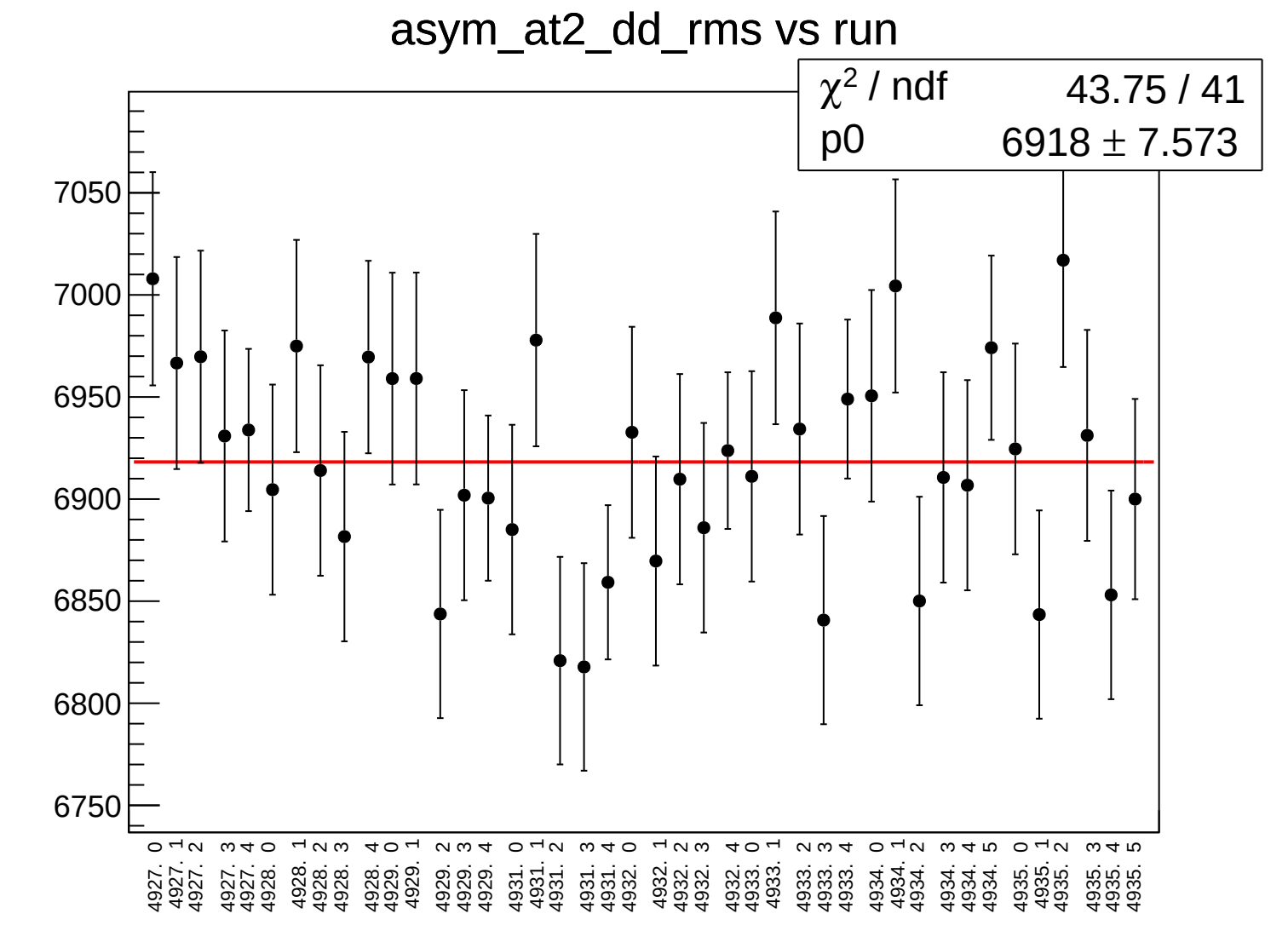

asym_at2_dd_correction_mean vs run
χ² / ndf 28.92 / 41
p0 1183 ± 756.2
20000
15000
10000
5000
0
−5000
−10000
−15000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −14.07
Std Dev 32.18
2
1.5
1
0.5
0
−0.5
−1
−1.5

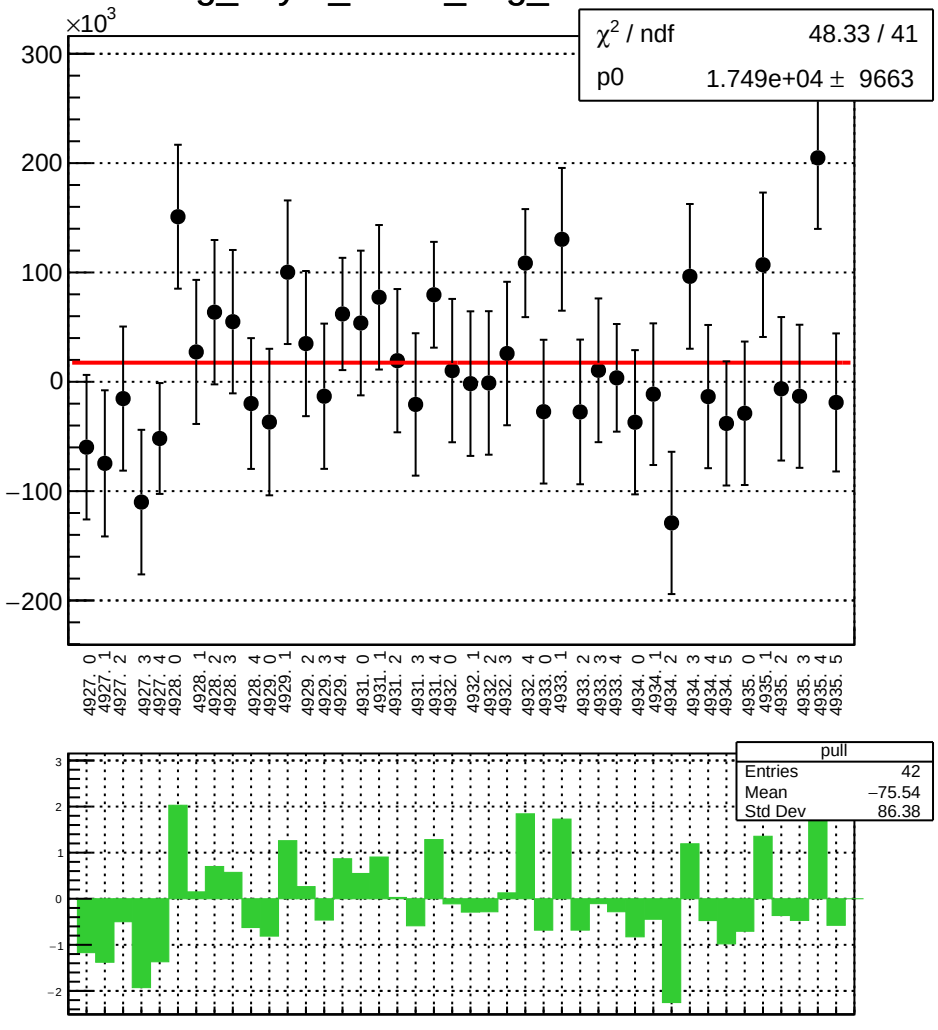

pull1D
Entries 42
Mean 0.005383
Std Dev 0.8298
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

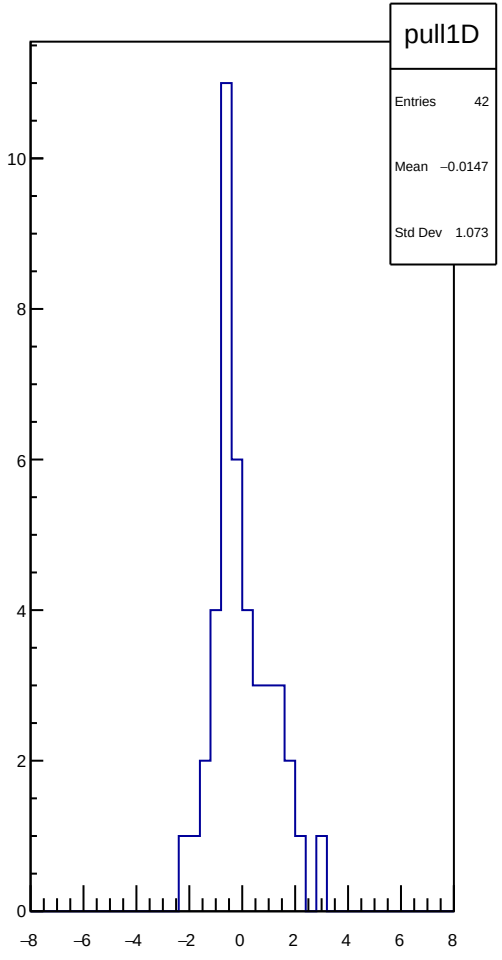

asym_at2_dd_correction_rms vs run
χ² / ndf 2.032e+04 / 41
p0 482.5 ± 0.5347
700
650
600
550
500
450
400
350
300
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

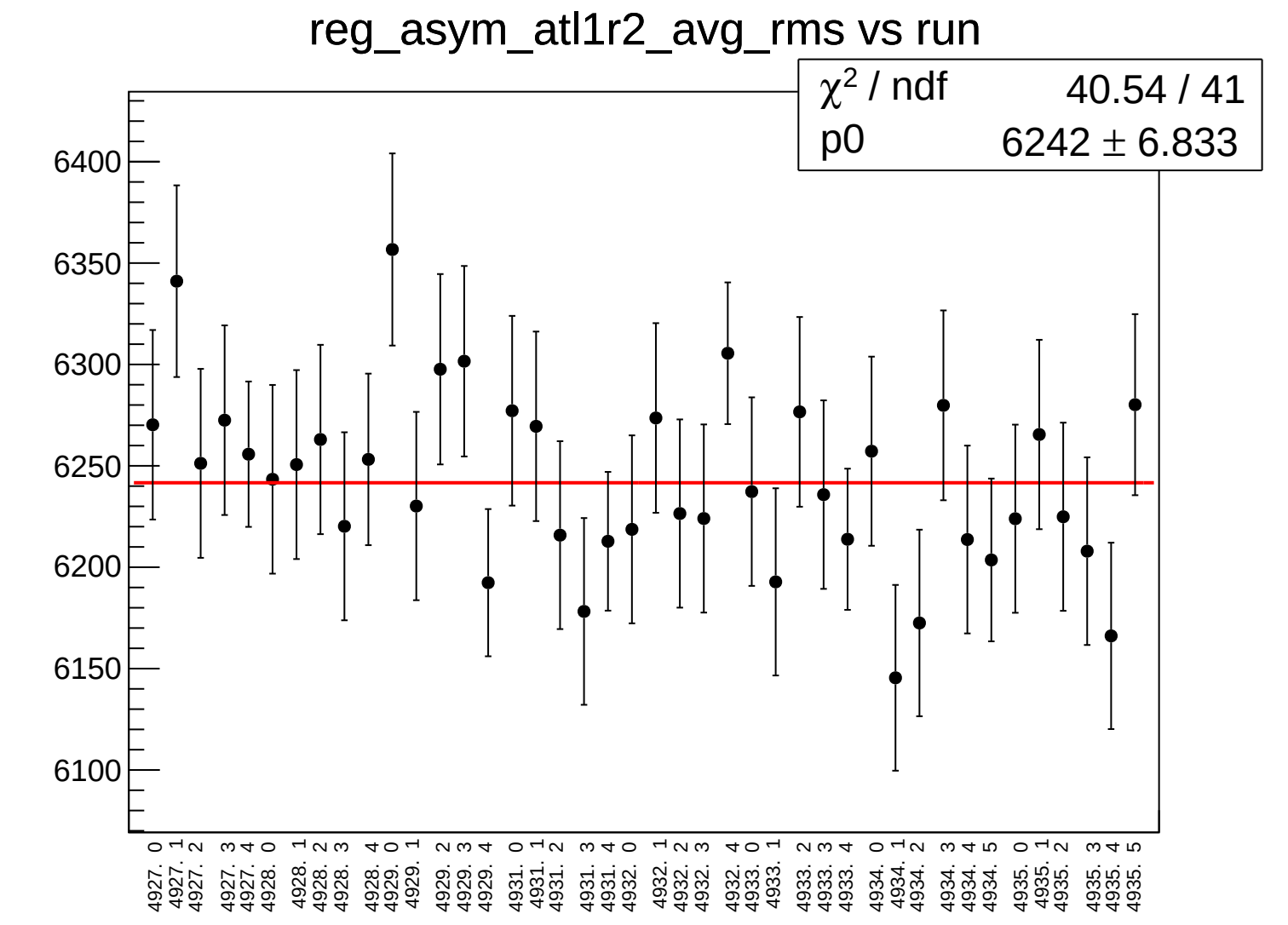

asym_at2_dd_mean vs run
×10^3
χ² / ndf 24.29 / 41
p0 1.654e+04 ± 1.071e+04
250
200
150
100
50
0
−50
−100
−150
−200
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −899.9
Std Dev 915
2
1.5
1
0.5
0
−0.5
−1
−1.5

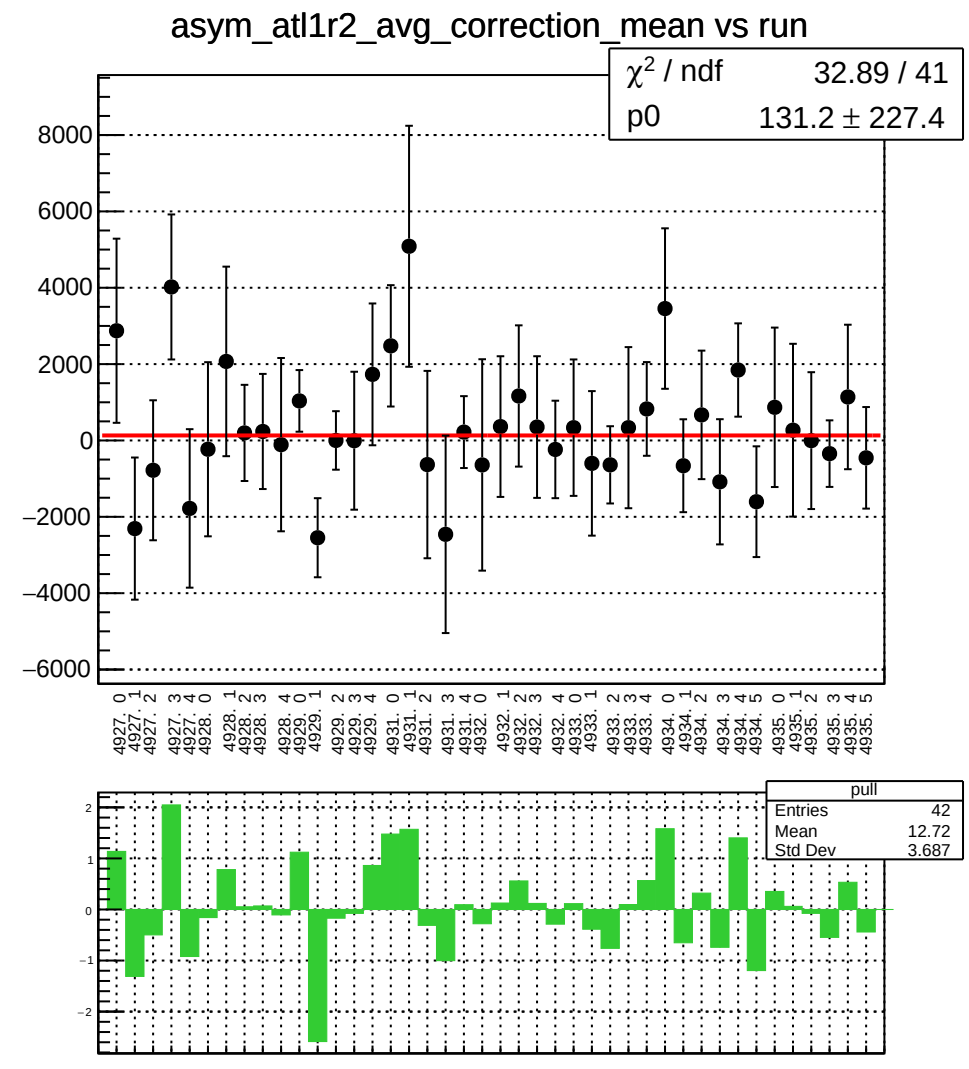

pull1D
Entries 42
Mean −0.001683
Std Dev 0.7604
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

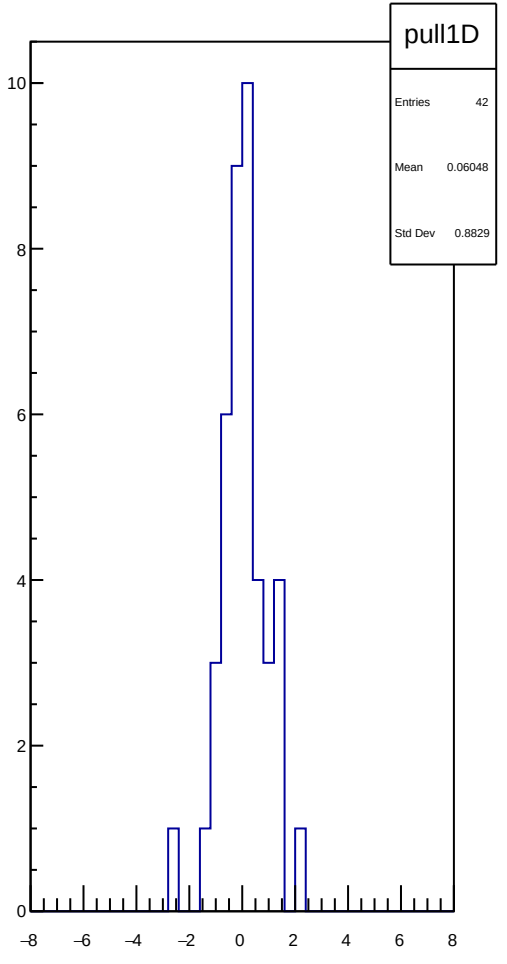

asym_at2_dd_rms vs run
χ² / ndf 43.75 / 41
p0 6918 ± 7.573
7050
7000
6950
6900
6850
6800
6750
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

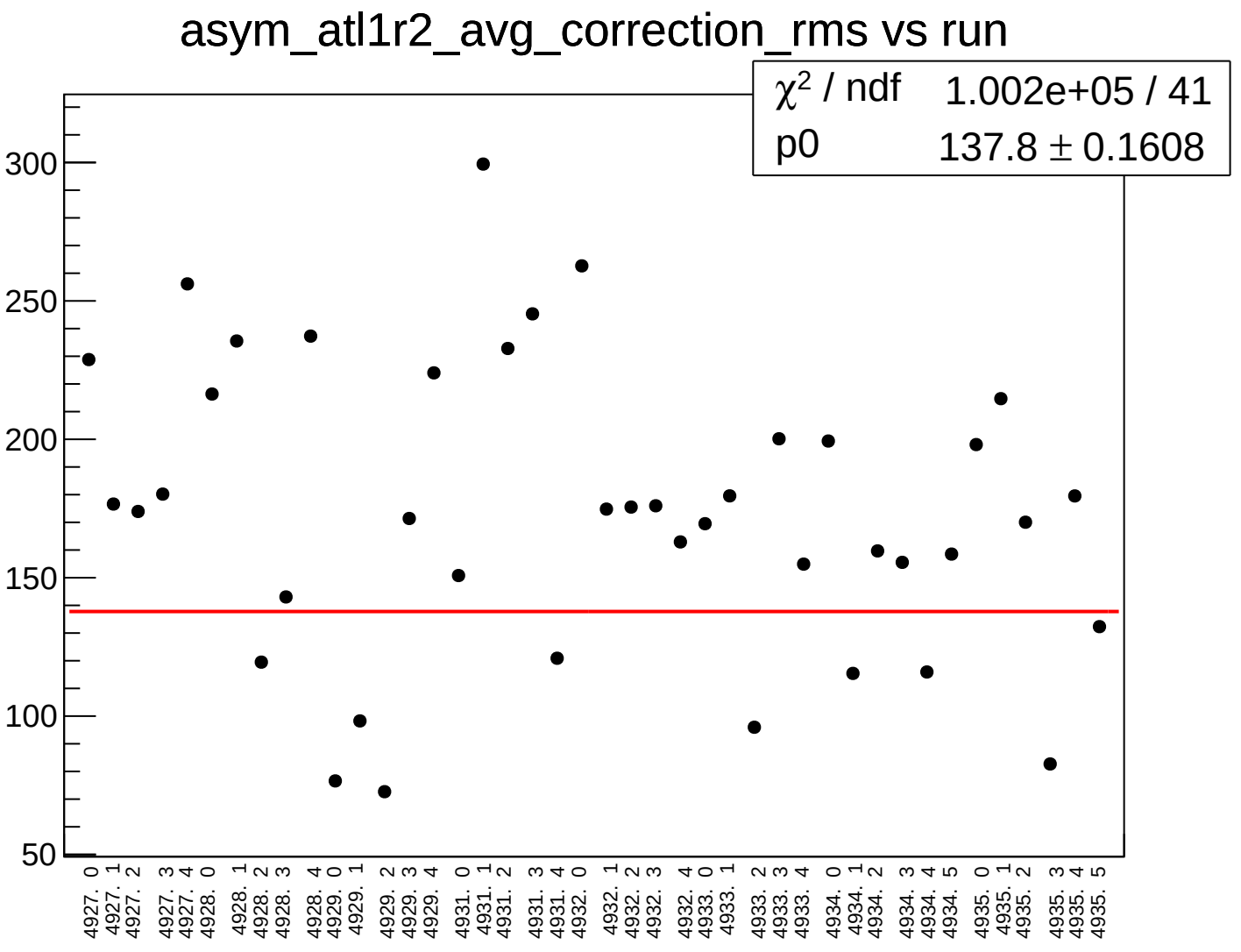

reg_asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 48.33 / 41
p0 1.749e+04 ± 9663
pull
Entries 42
Mean −75.54
Std Dev 86.38

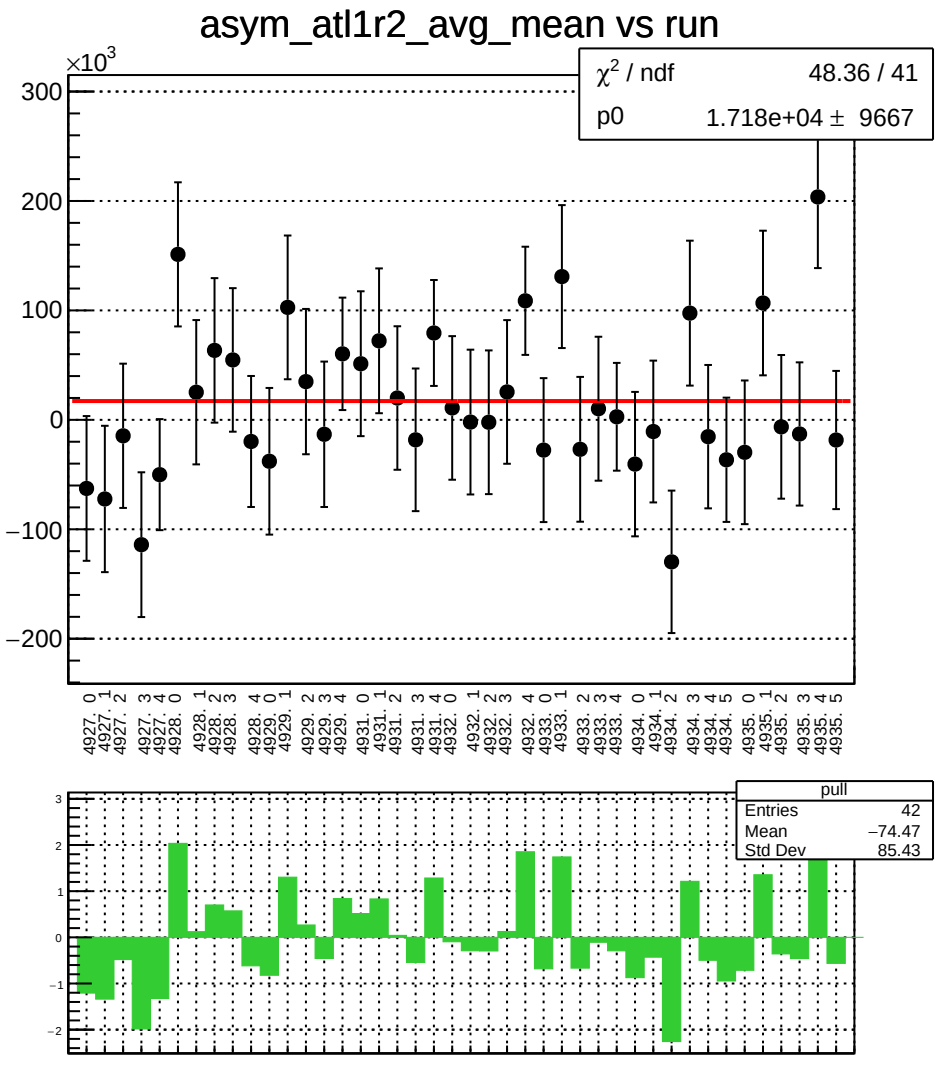

pull1D
Entries 42
Mean −0.0147
Std Dev 1.073

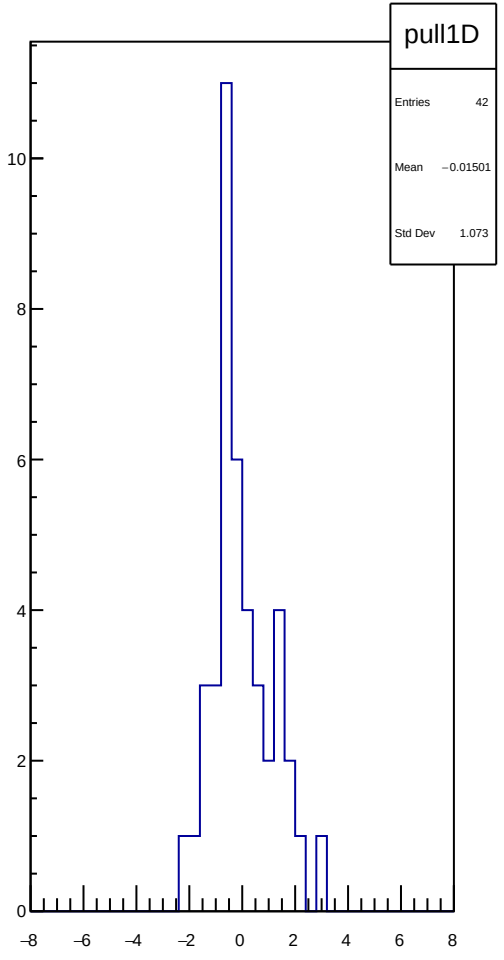

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 40.54 / 41
p0 6242 ± 6.833
6400
6350
6300
6250
6200
6150
6100
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

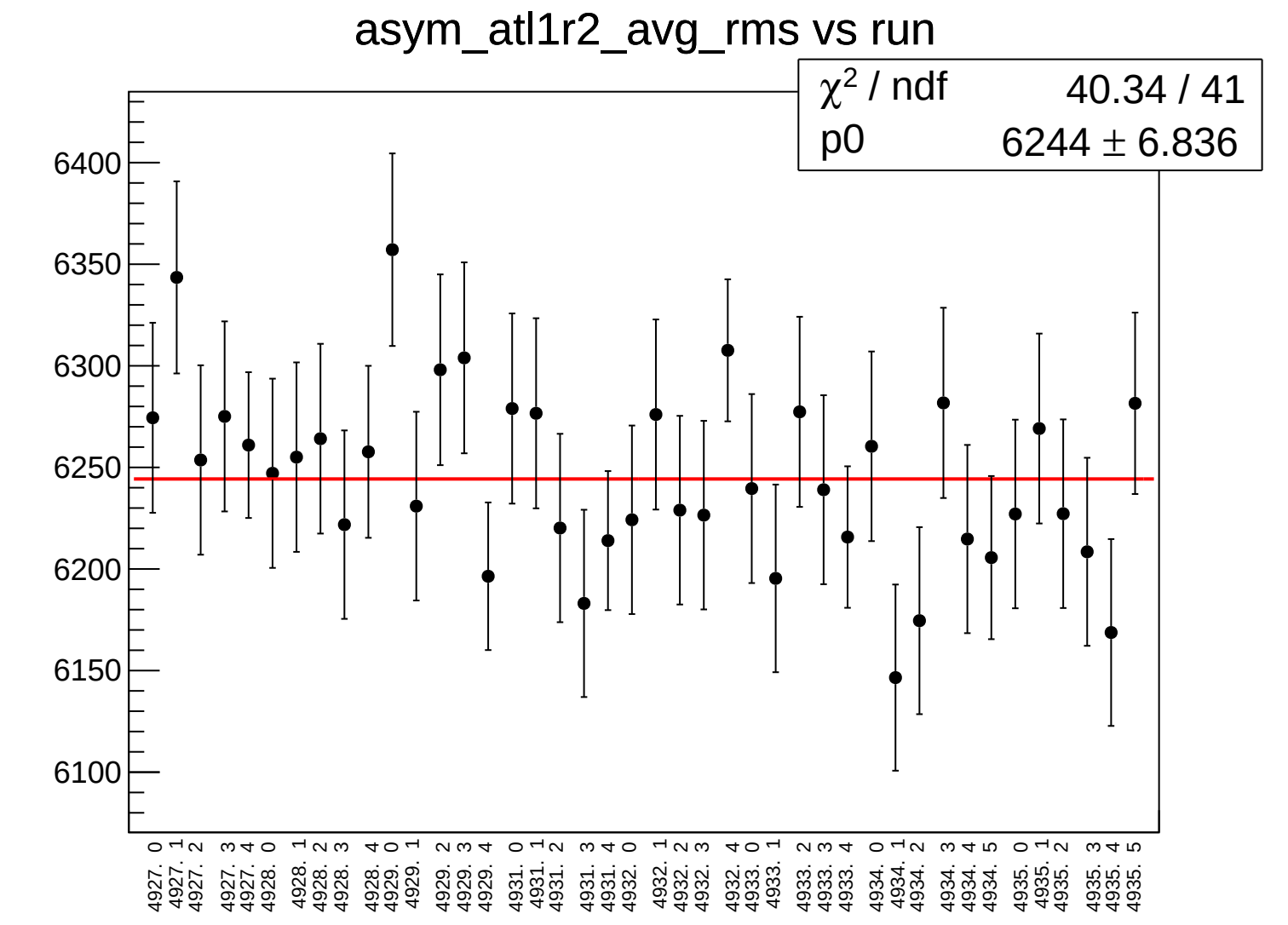

asym_atl1r2_avg_correction_mean vs run
χ² / ndf 32.89 / 41
p0 131.2 ± 227.4
8000
6000
4000
2000
0
−2000
−4000
−6000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 12.72
Std Dev 3.687
2
1
0
−1
−2

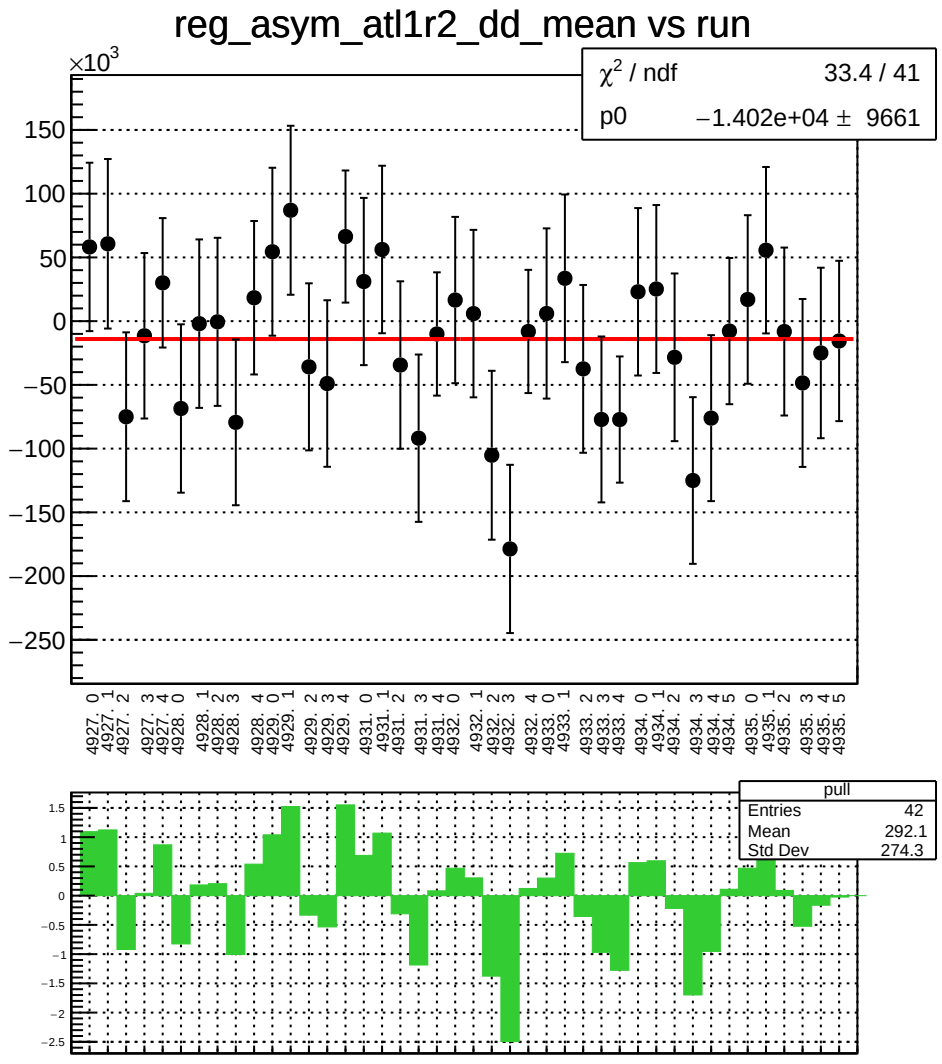

pull1D
Entries 42
Mean 0.06048
Std Dev 0.8829
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

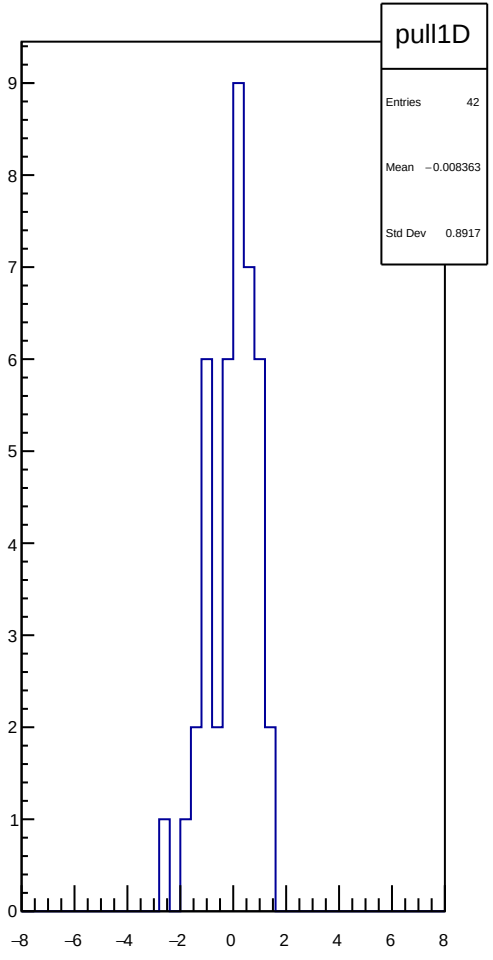

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 1.002e+05 / 41
p0 137.8 ± 0.1608
300
250
200
150
100
50
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

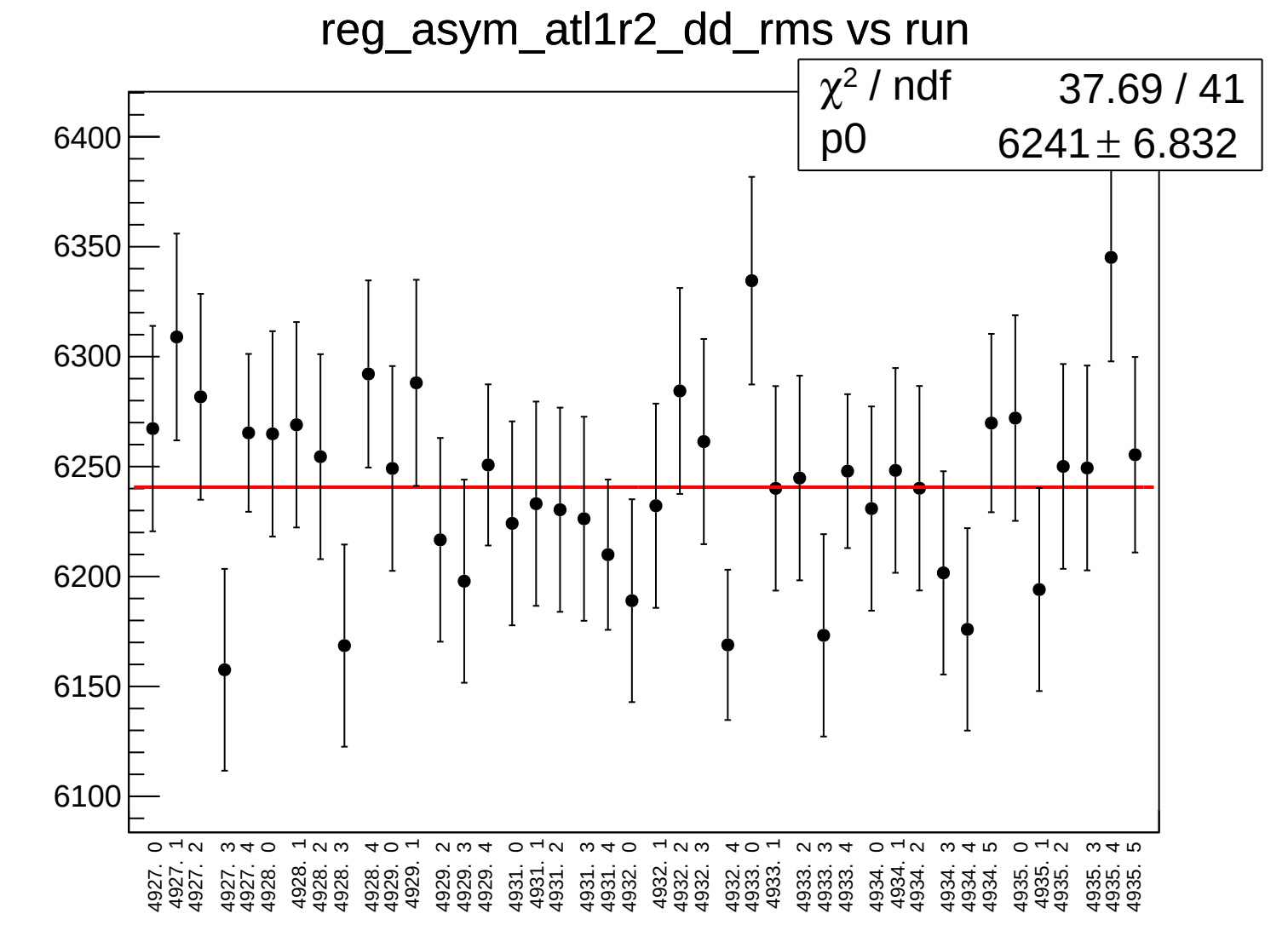

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 48.36 / 41
p0 1.718e+04 ± 9667
300
200
100
0
−100
−200
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −74.47
Std Dev 85.43
3
2
1
0
−1
−2

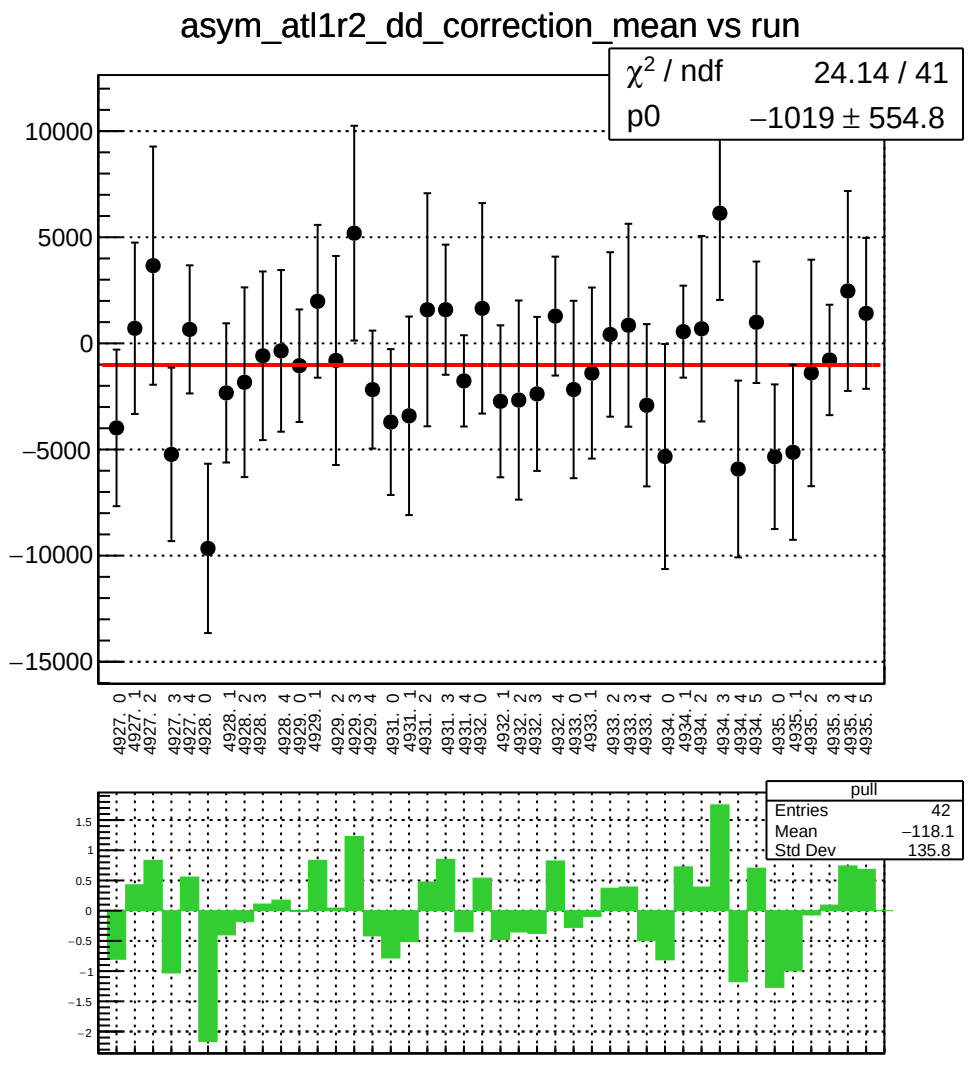

pull1D
Entries 42
Mean −0.01501
Std Dev 1.073
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

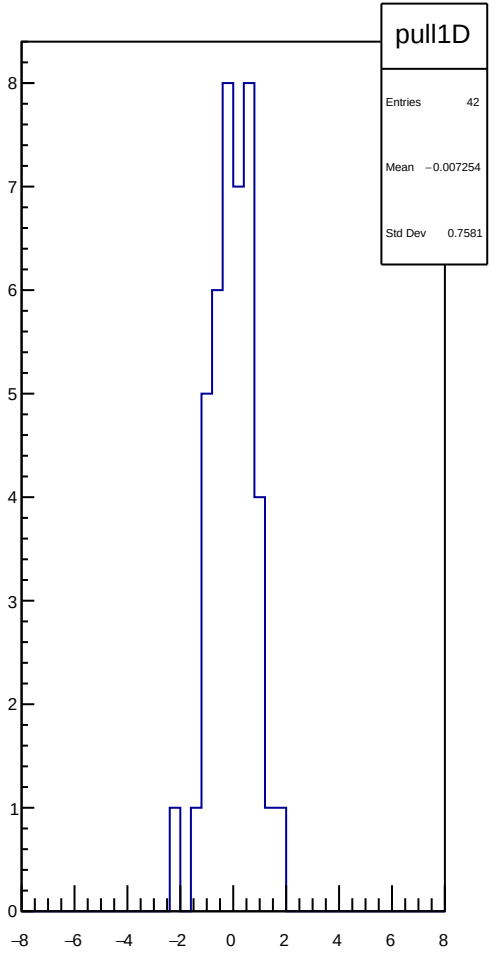

asym_atl1r2_avg_rms vs run
χ² / ndf 40.34 / 41
p0 6244 ± 6.836
6400
6350
6300
6250
6200
6150
6100
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

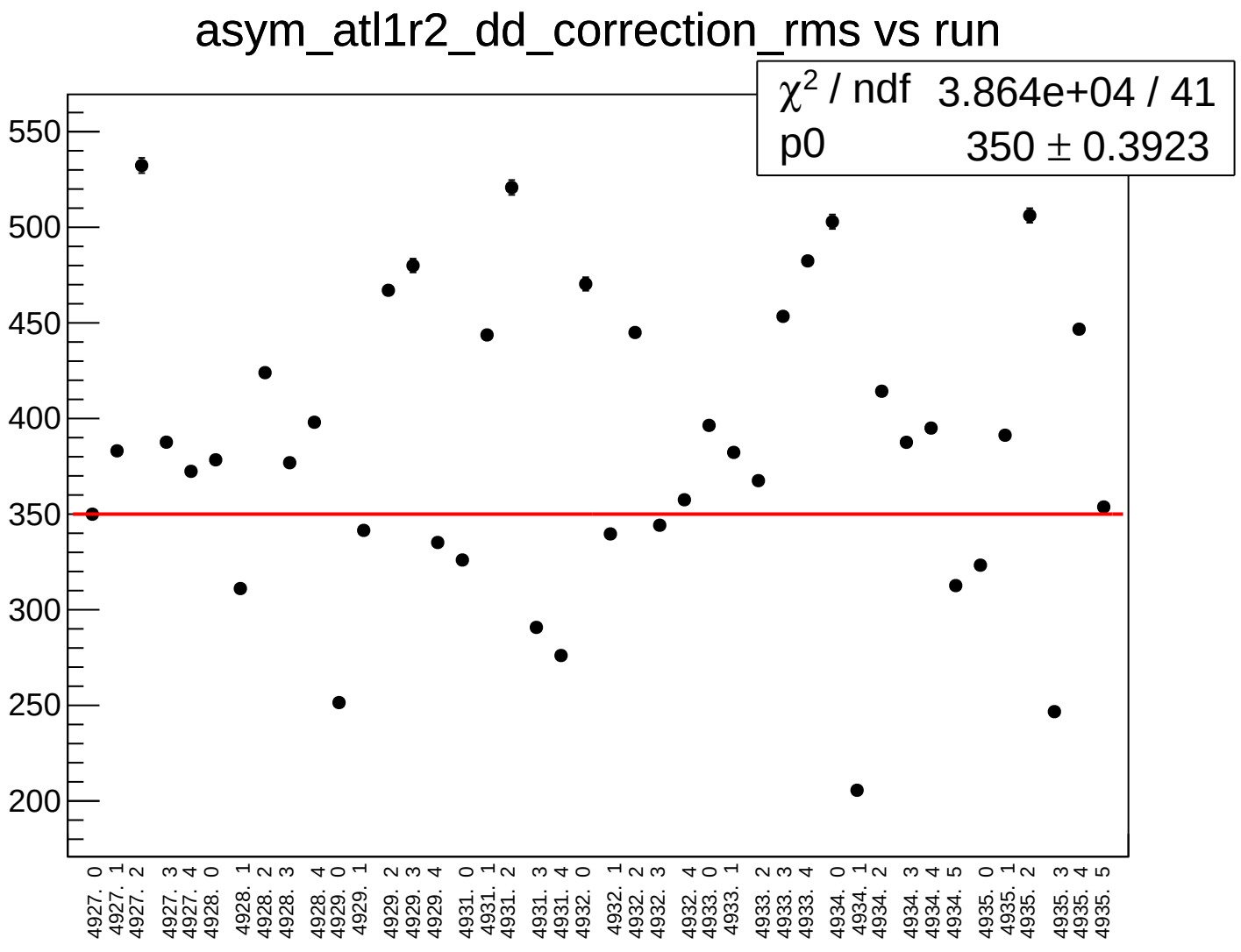

reg_asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 33.4 / 41
p0 −1.402e+04 ± 9661
150
100
50
0
−50
−100
−150
−200
−250
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 292.1
Std Dev 274.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

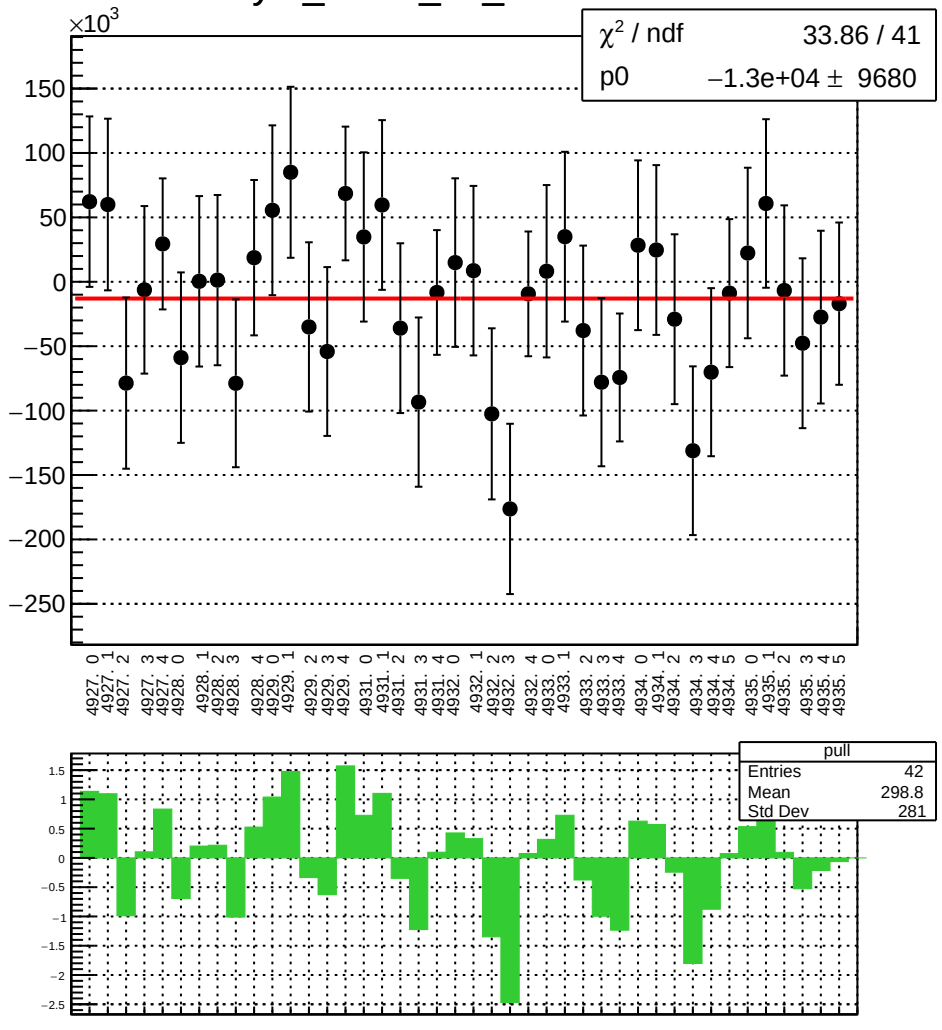

pull1D
Entries 42
Mean −0.008363
Std Dev 0.8917
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

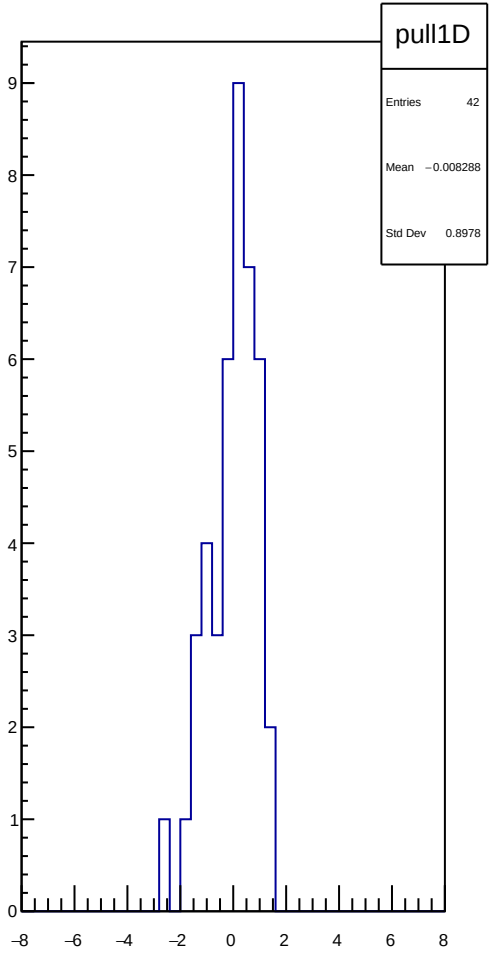

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 37.69 / 41
p0 6241 ± 6.832
6400
6350
6300
6250
6200
6150
6100
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

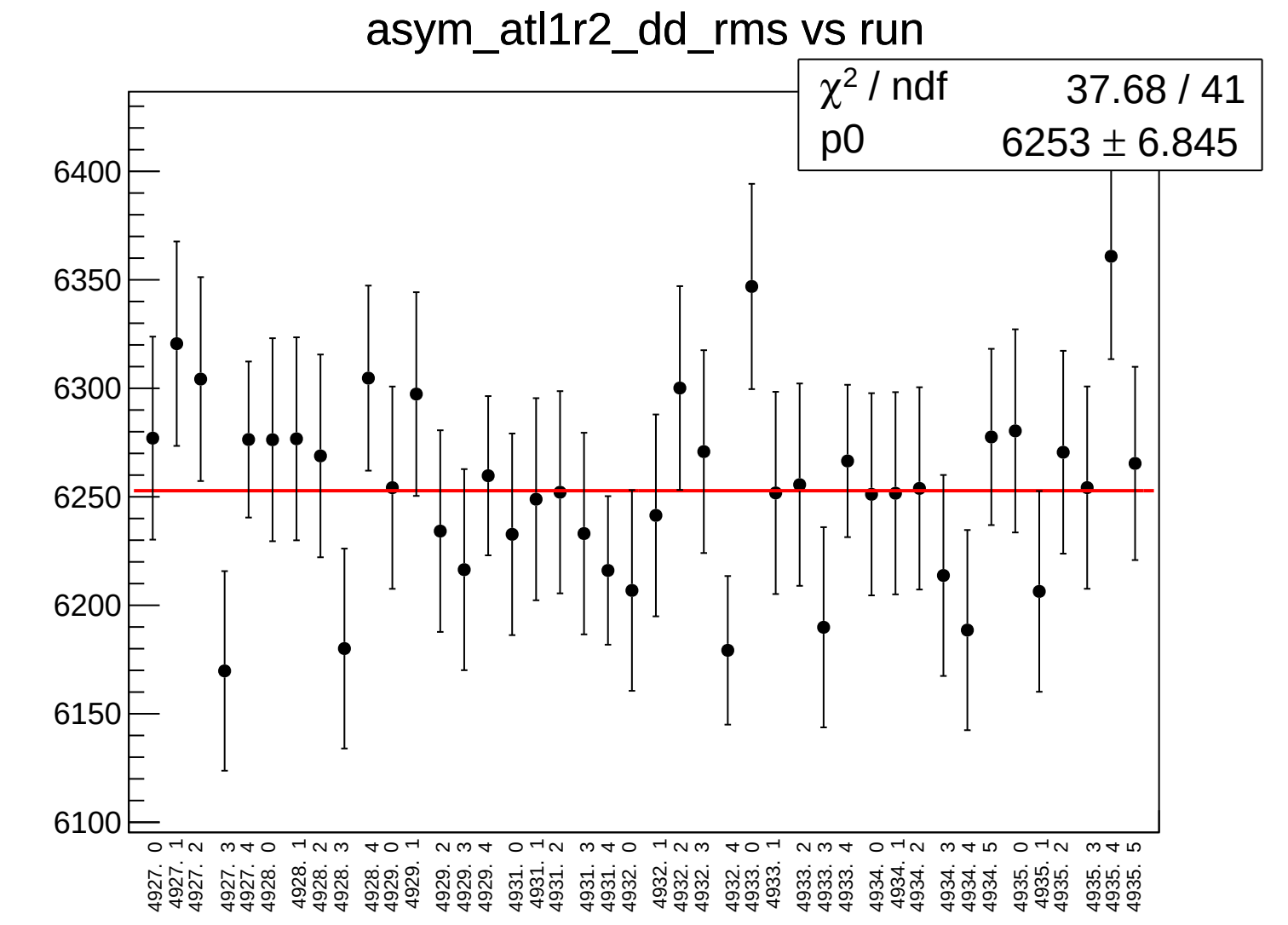

asym_atl1r2_dd_correction_mean vs run
χ² / ndf 24.14 / 41
p0 −1019 ± 554.8
10000
5000
0
−5000
−10000
−15000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −118.1
Std Dev 135.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2

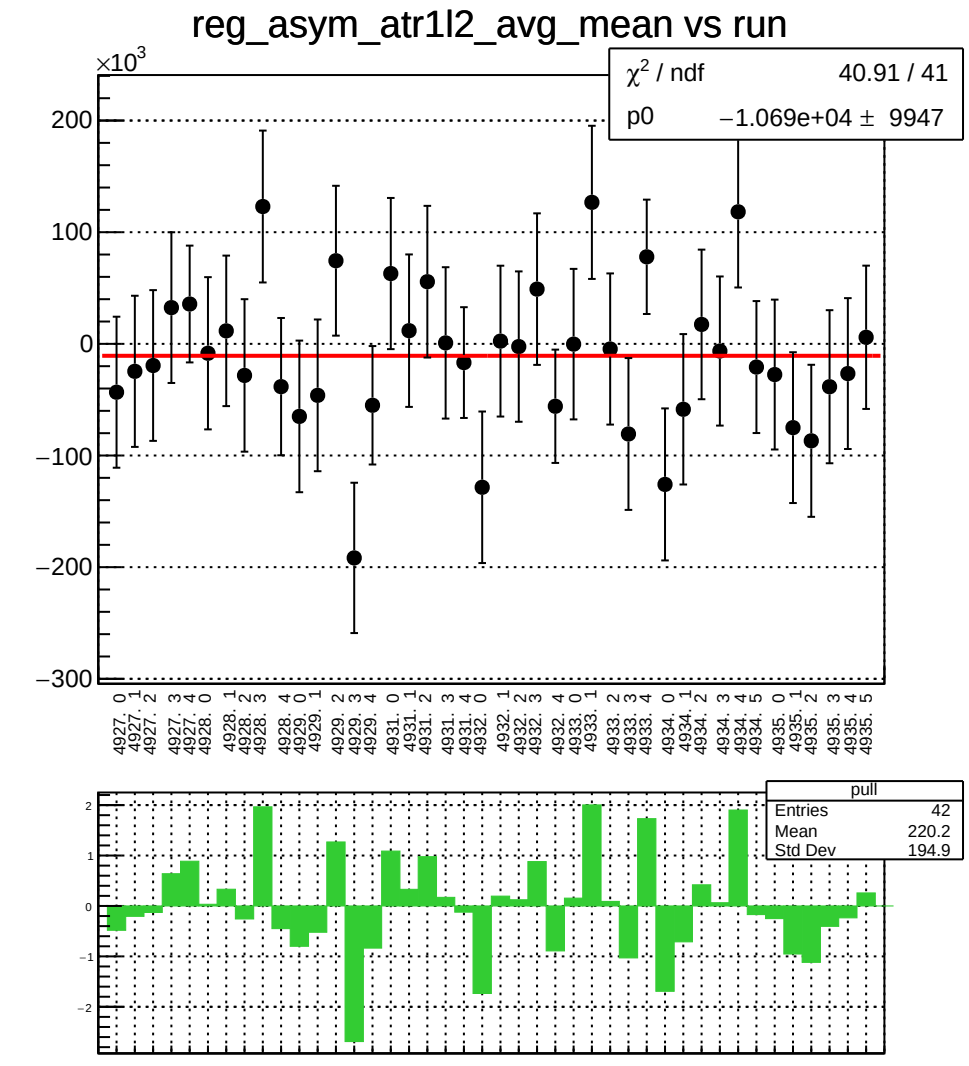

pull1D
Entries 42
Mean −0.007254
Std Dev 0.7581
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

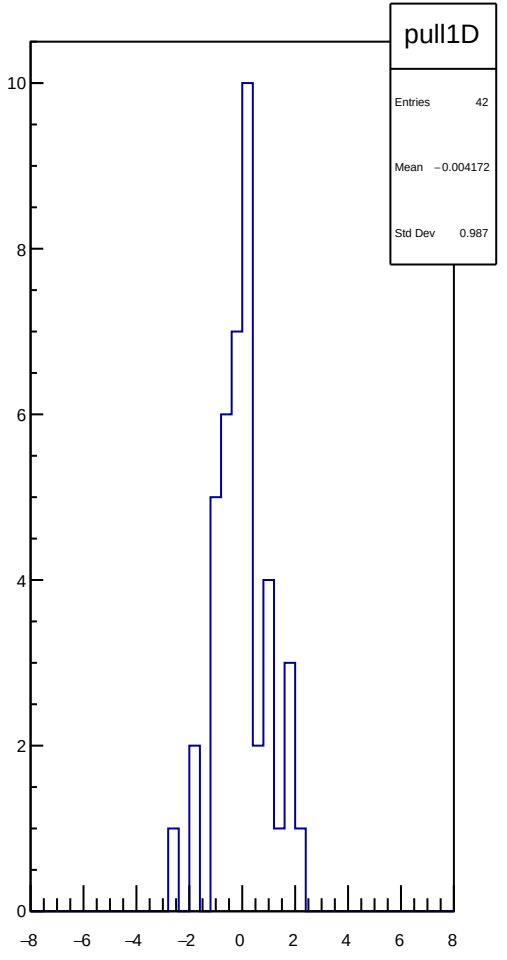

asym_atl1r2_dd_correction_rms vs run
χ^2 / ndf 3.864e+04 / 41
p0 350 ± 0.3923
550
500
450
400
350
300
250
200
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

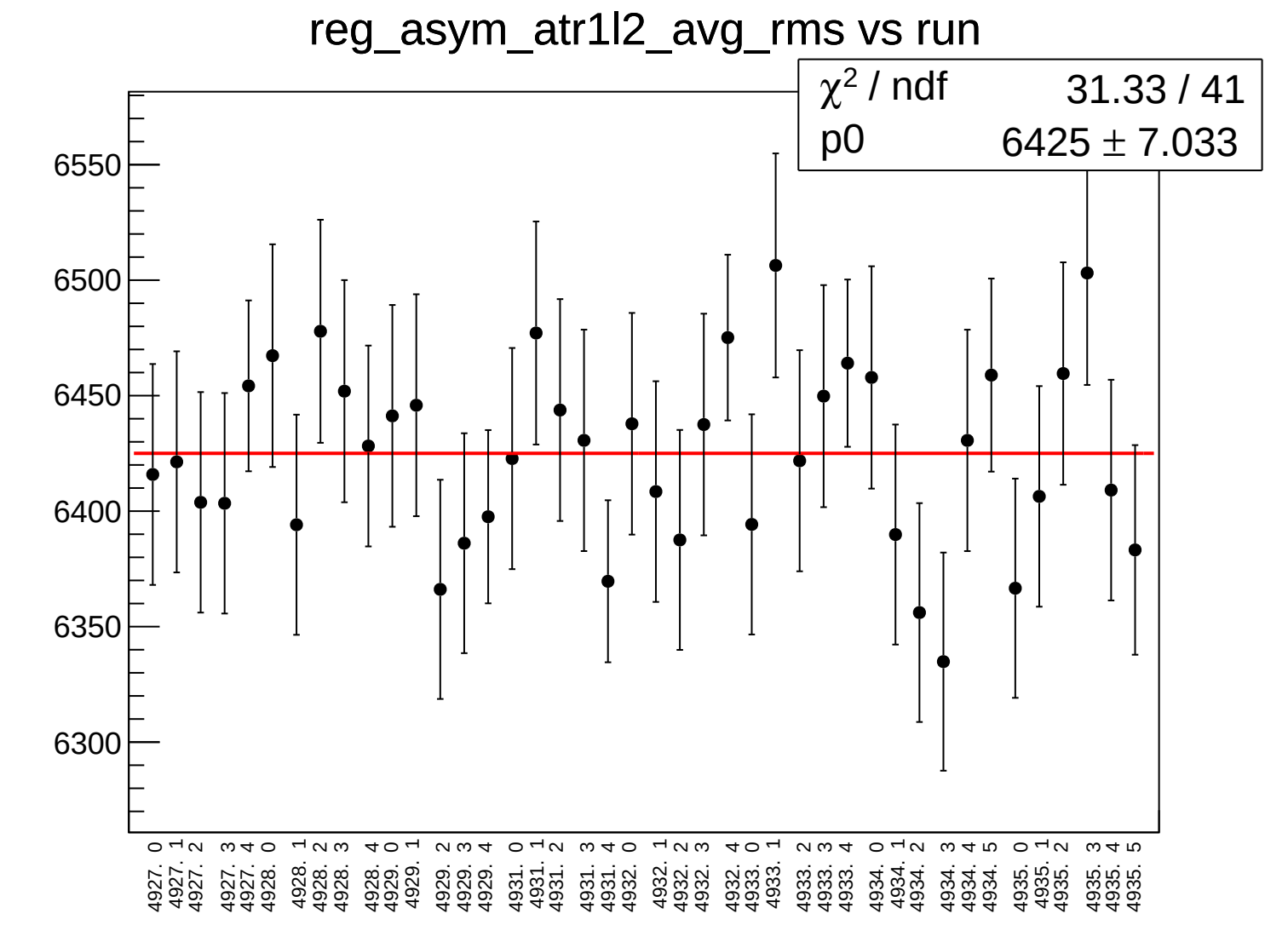

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 33.86 / 41
p0 −1.3e+04 ± 9680
150
100
50
0
−50
−100
−150
−200
−250
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 298.8
Std Dev 281
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

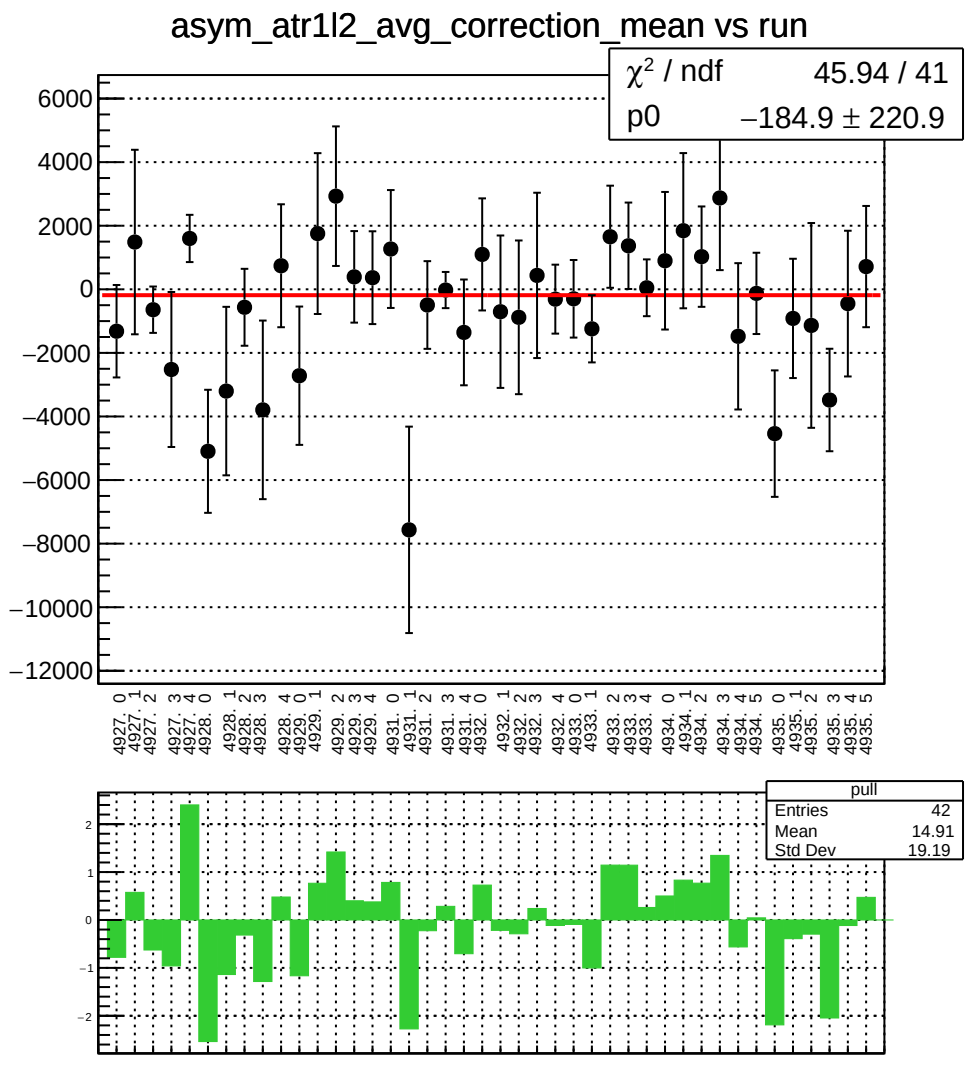

pull1D
Entries 42
Mean −0.008288
Std Dev 0.8978
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

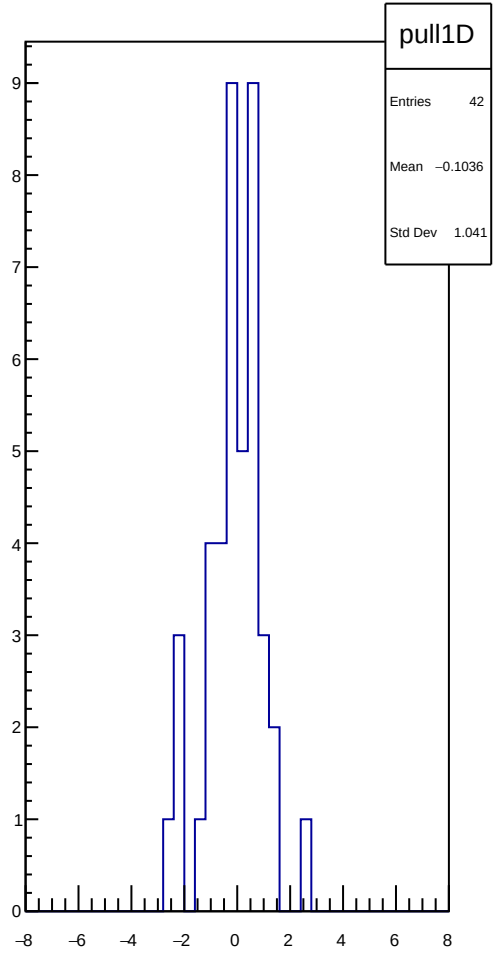

asym_atl1r2_dd_rms vs run
χ² / ndf 37.68 / 41
p0 6253 ± 6.845
6400
6350
6300
6250
6200
6150
6100
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

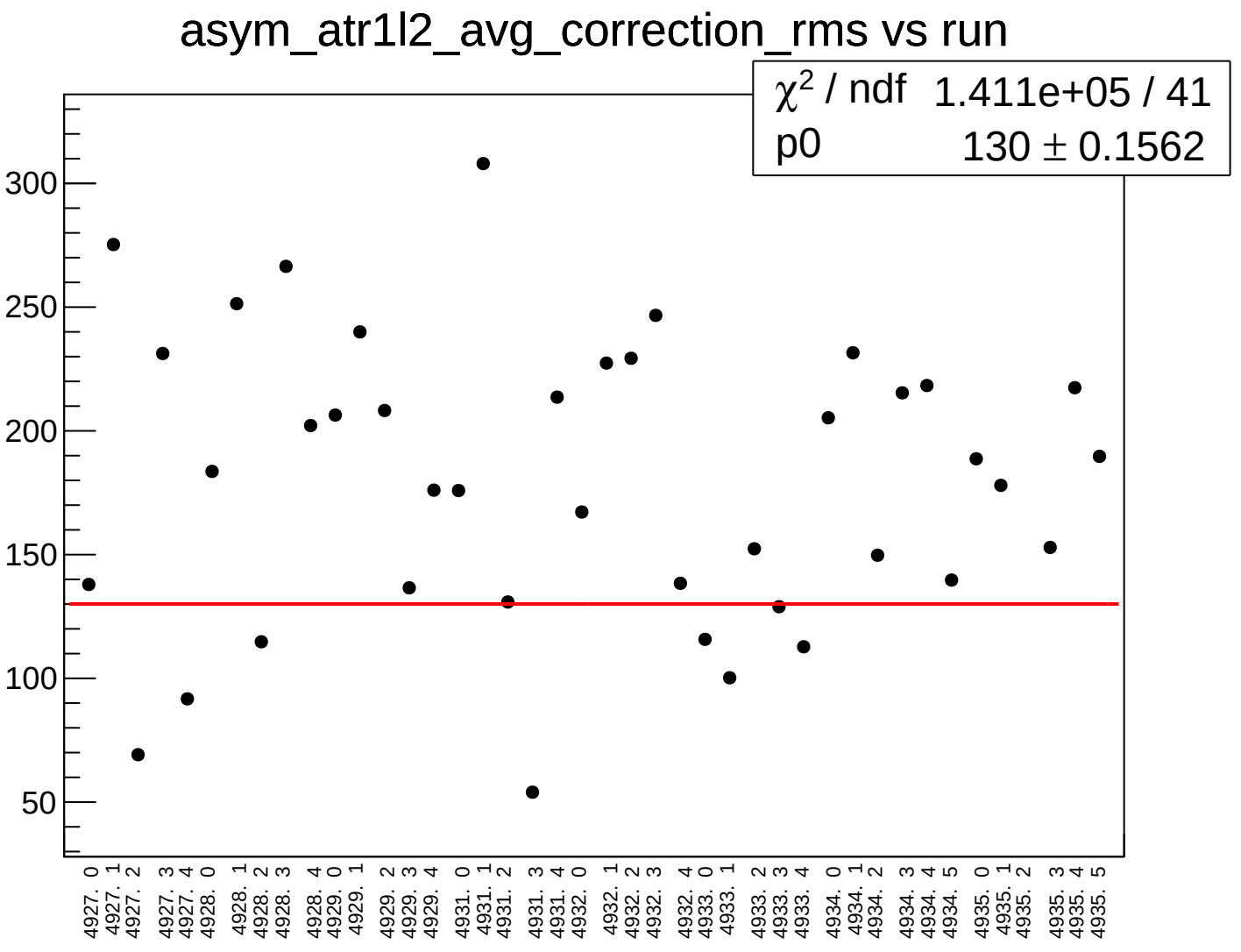

reg_asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 40.91 / 41
p0 −1.069e+04 ± 9947
200
100
0
−100
−200
−300
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 220.2
Std Dev 194.9
2
1
0
−1
−2

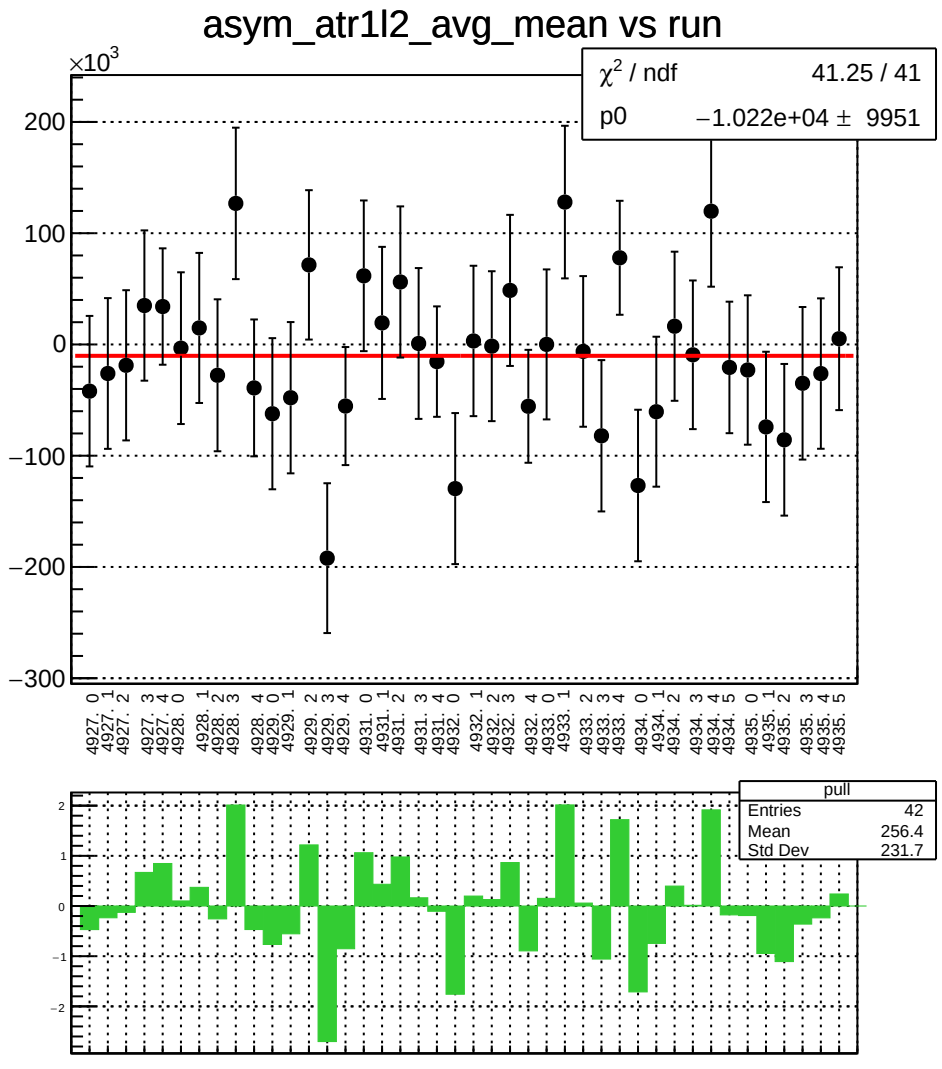

pull1D
Entries 42
Mean −0.004172
Std Dev 0.987
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

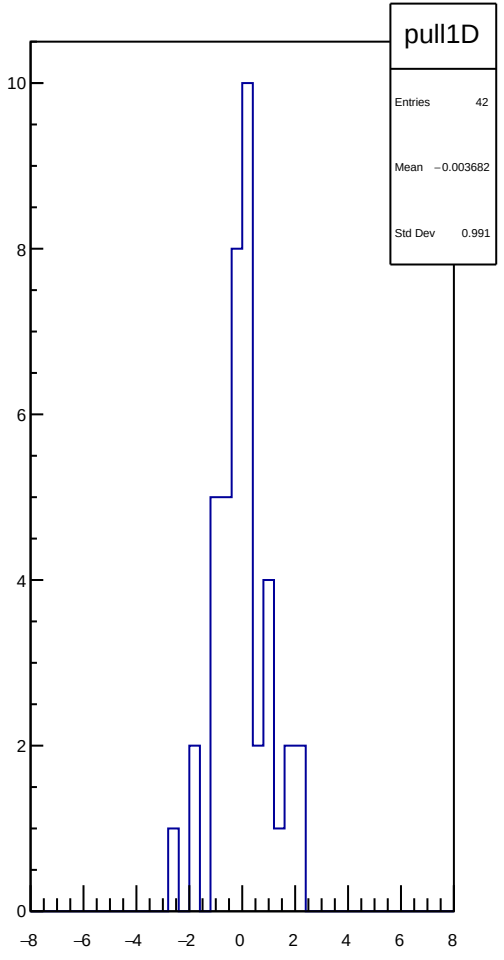

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 31.33 / 41
p0 6425 ± 7.033
6550
6500
6450
6400
6350
6300
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

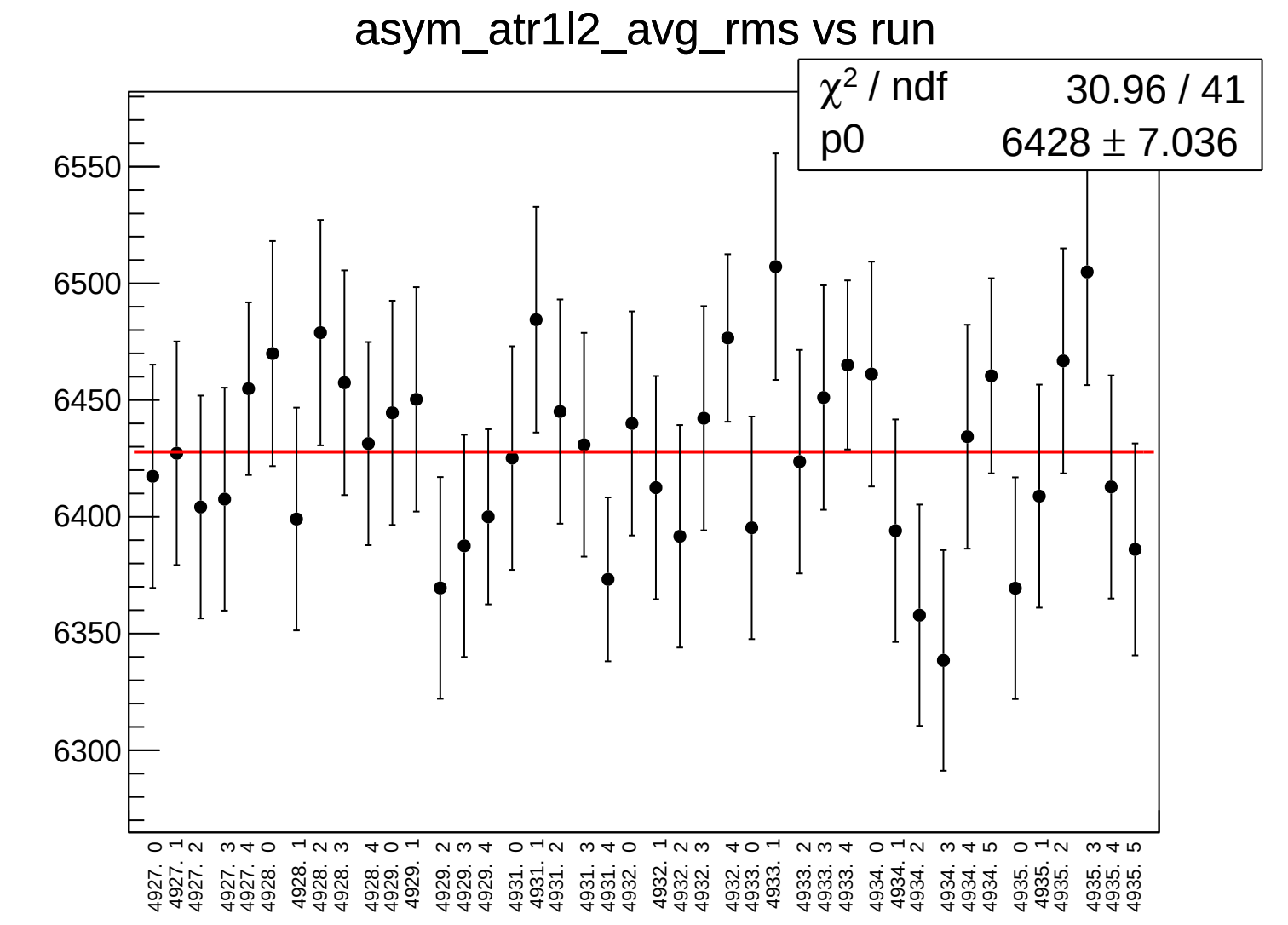

asym_atr1l2_avg_correction_mean vs run
χ² / ndf 45.94 / 41
p0 −184.9 ± 220.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 14.91
Std Dev 19.19
2
1
0
−1
−2

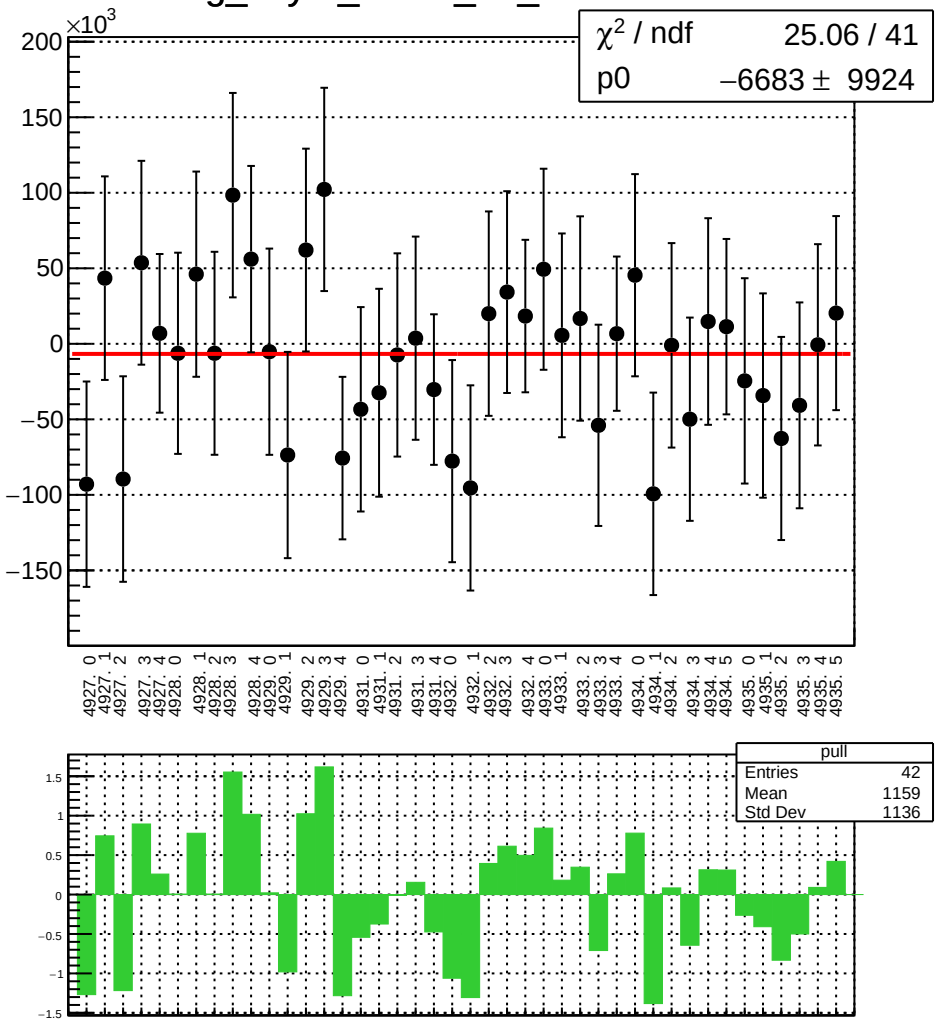

pull1D
Entries 42
Mean −0.1036
Std Dev 1.041
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

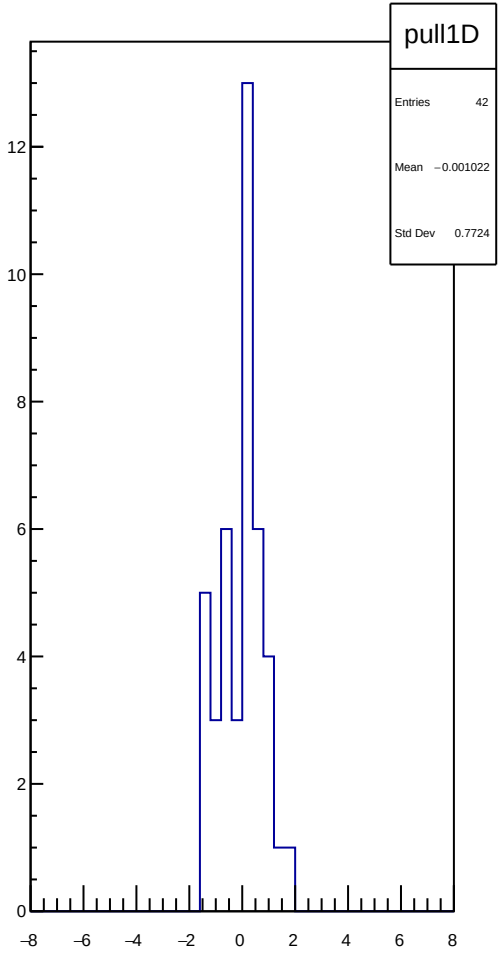

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 1.411e+05 / 41
p0 130 ± 0.1562
300
250
200
150
100
50
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

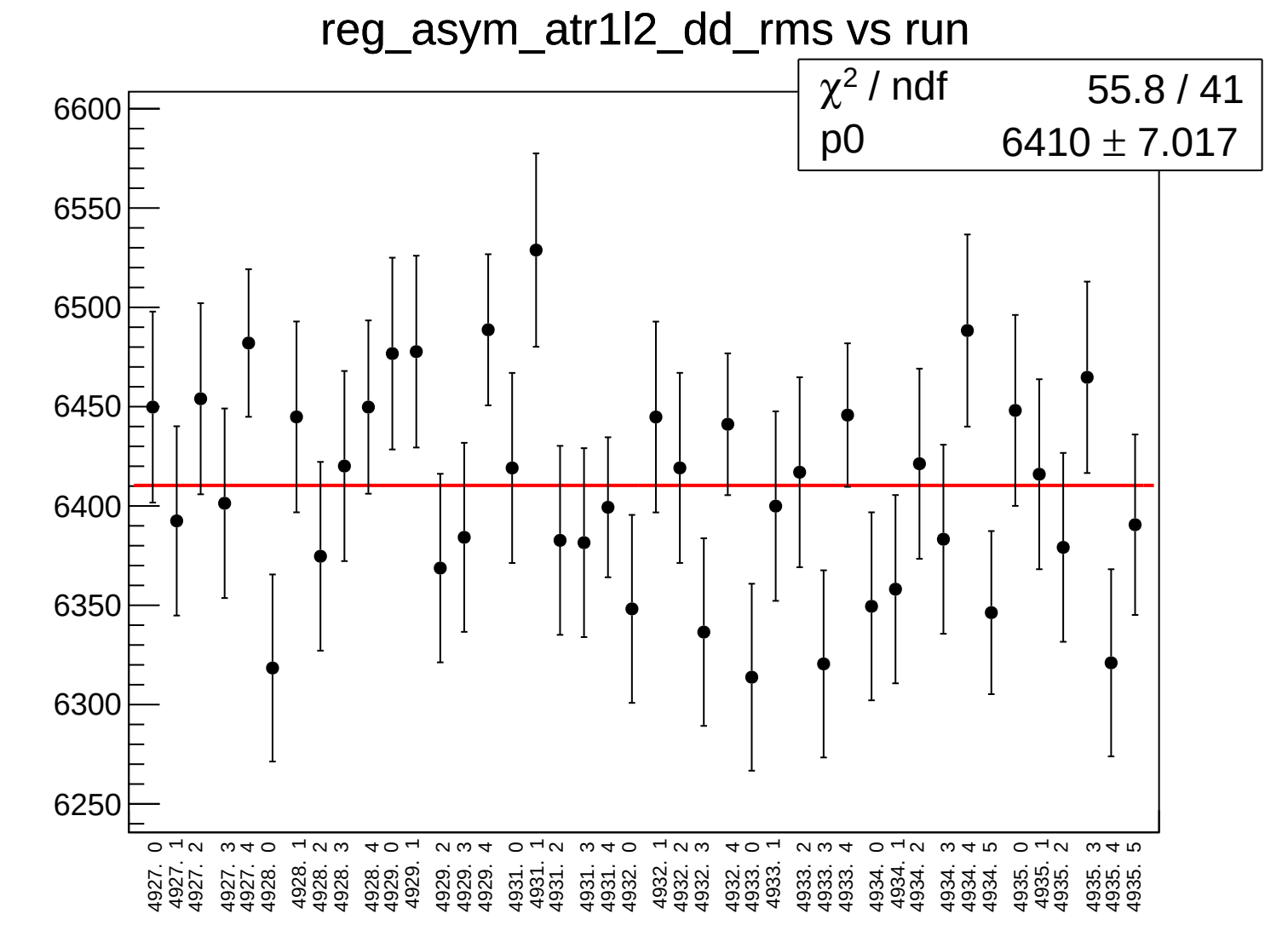

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 41.25 / 41
p0 −1.022e+04 ± 9951
200
100
0
−100
−200
−300
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 256.4
Std Dev 231.7
2
1
0
−1
−2

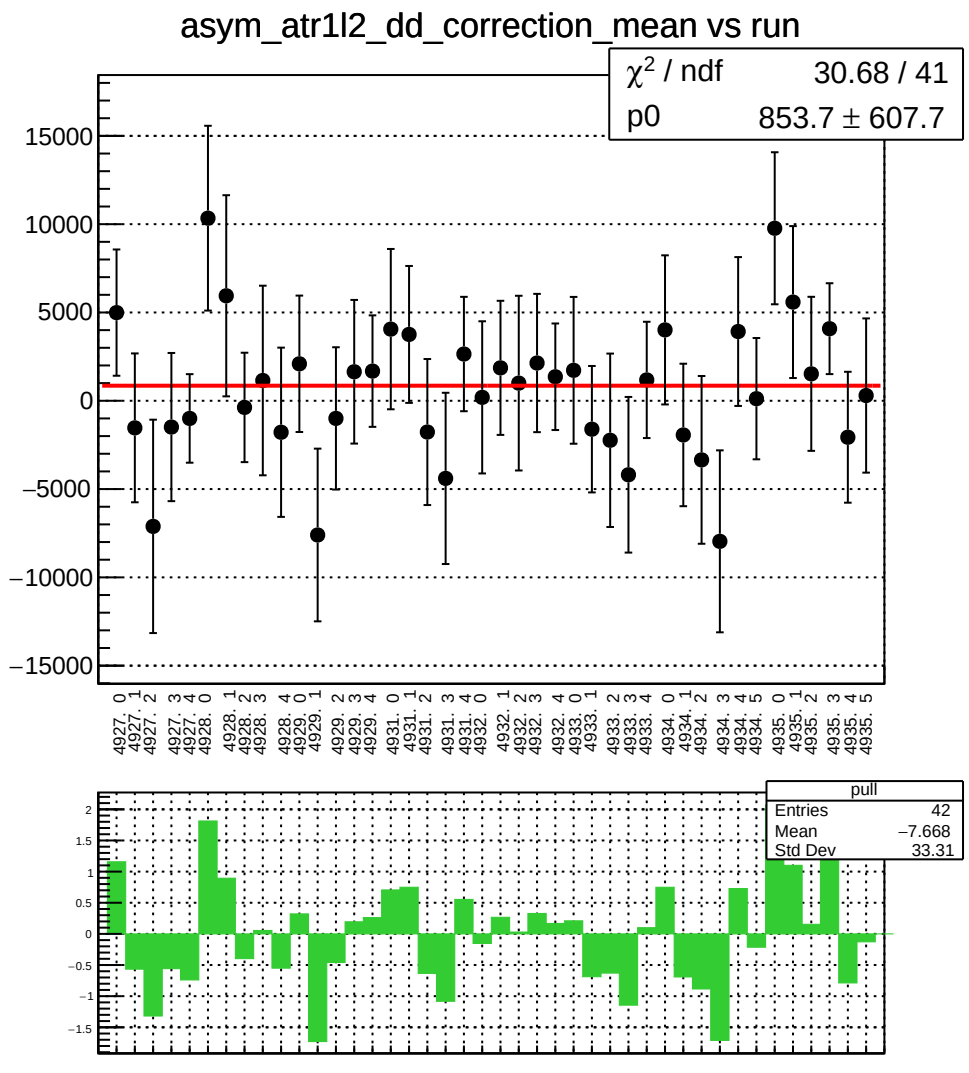

pull1D
Entries 42
Mean −0.003682
Std Dev 0.991
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

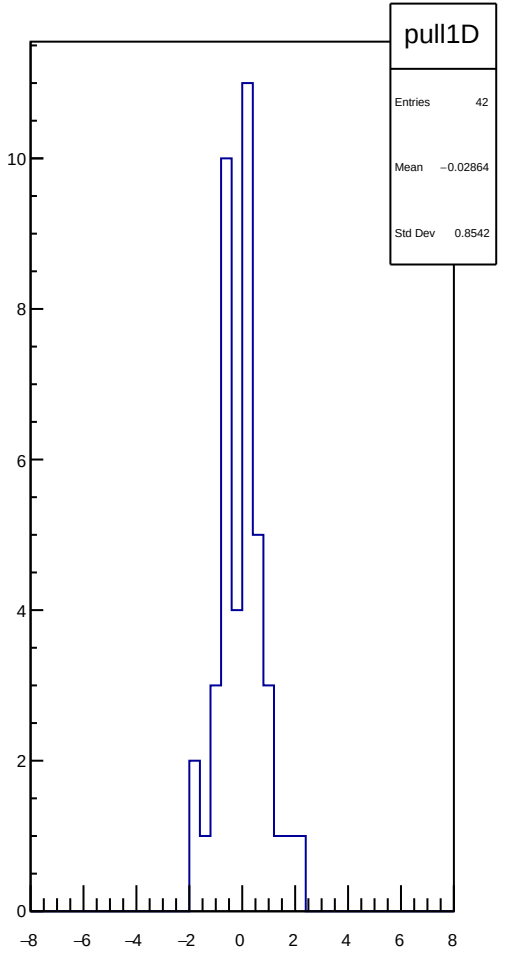

asym_atr1l2_avg_rms vs run
χ² / ndf 30.96 / 41
p0 6428 ± 7.036
6550
6500
6450
6400
6350
6300
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

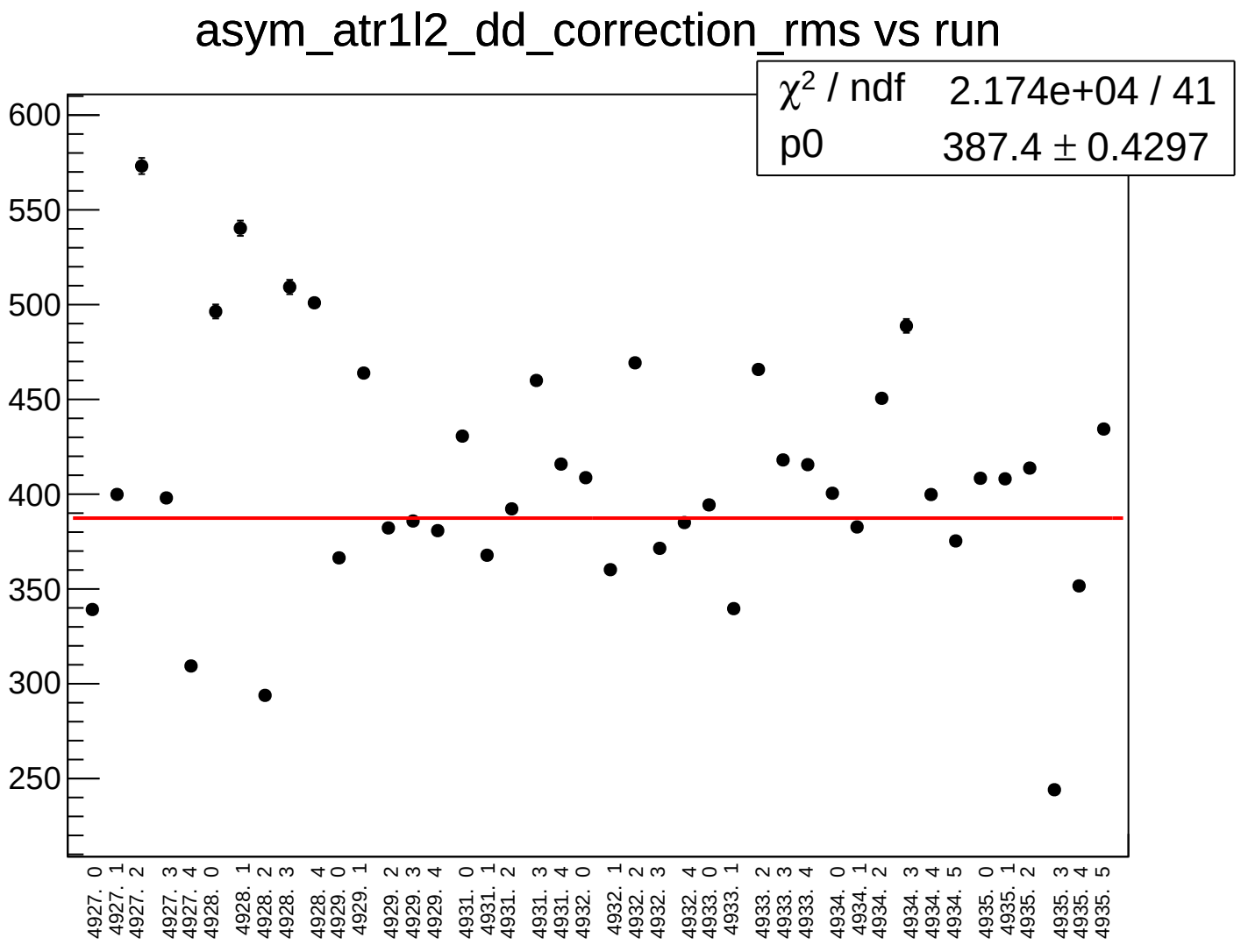

reg_asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 25.06 / 41
p0 −6683 ± 9924
200
150
100
50
0
−50
−100
−150
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 1159
Std Dev 1136
1.5
1
0.5
0
−0.5
−1
−1.5

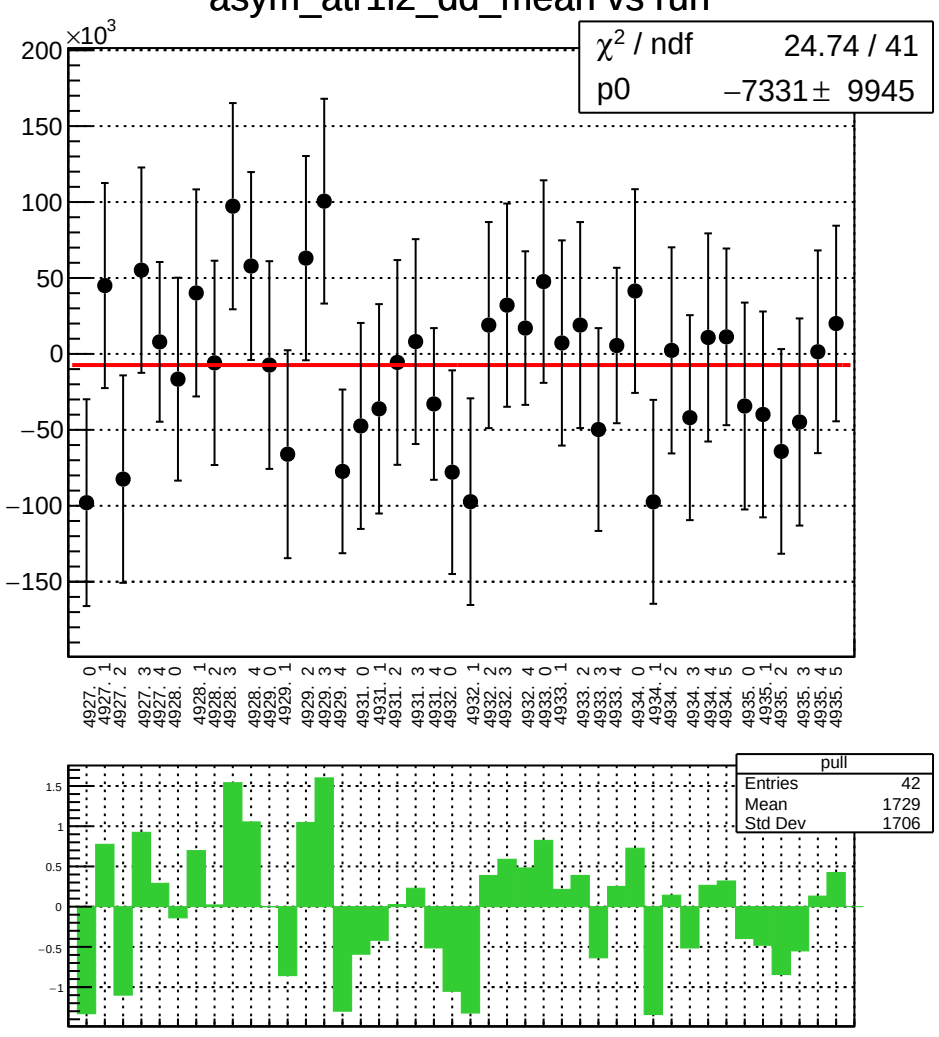

pull1D
Entries 42
Mean −0.001022
Std Dev 0.7724
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

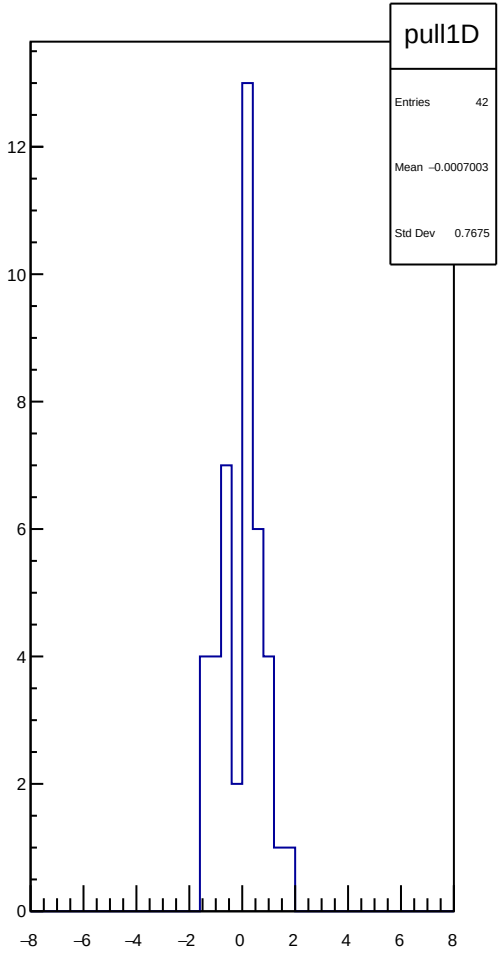

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 55.8 / 41
p0 6410 ± 7.017
6600
6550
6500
6450
6400
6350
6300
6250
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

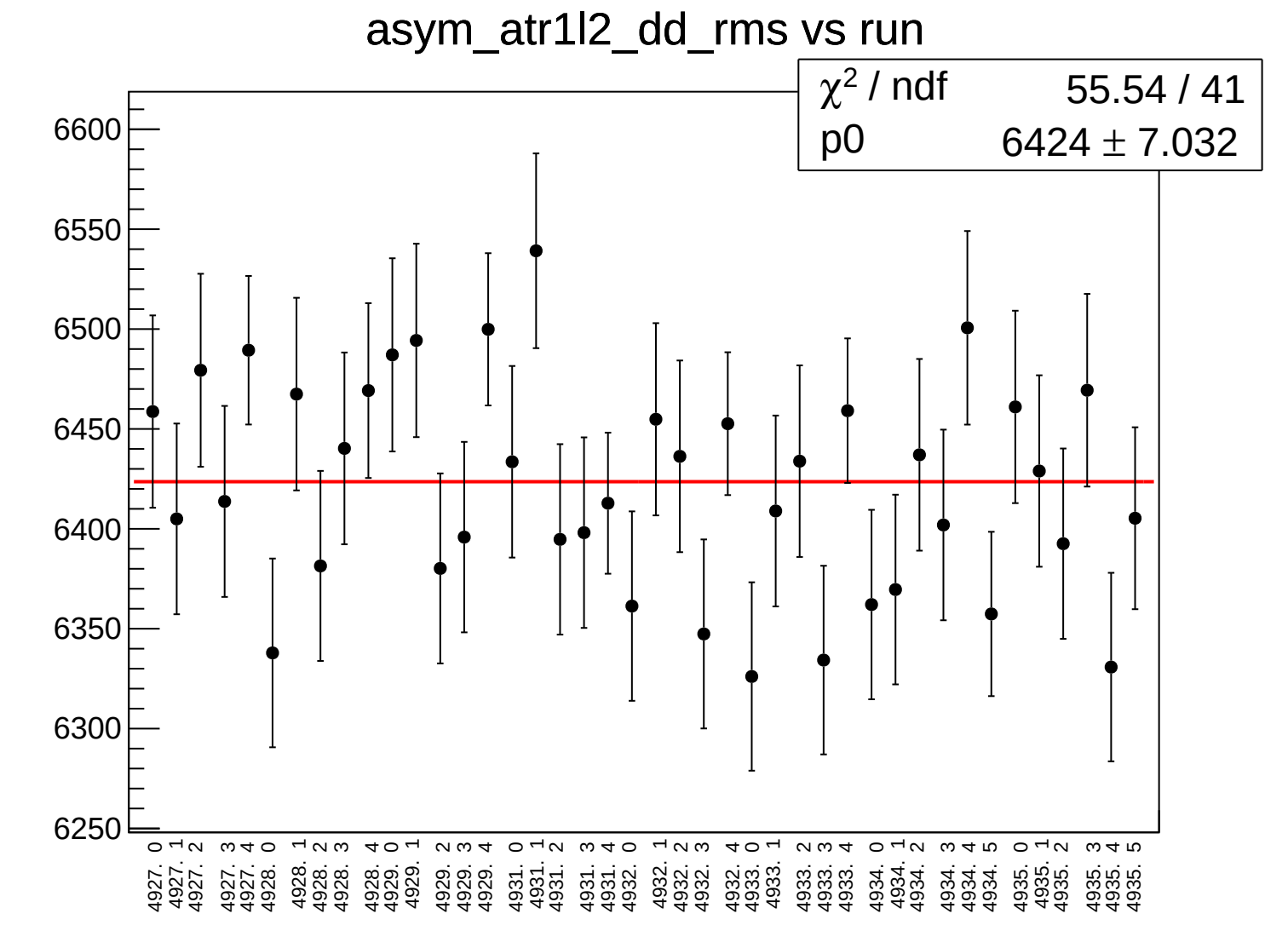

asym_atr1l2_dd_correction_mean vs run
χ² / ndf 30.68 / 41
p0 853.7 ± 607.7
15000
10000
5000
0
−5000
−10000
−15000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −7.668
Std Dev 33.31
2
1.5
1
0.5
0
−0.5
−1
−1.5

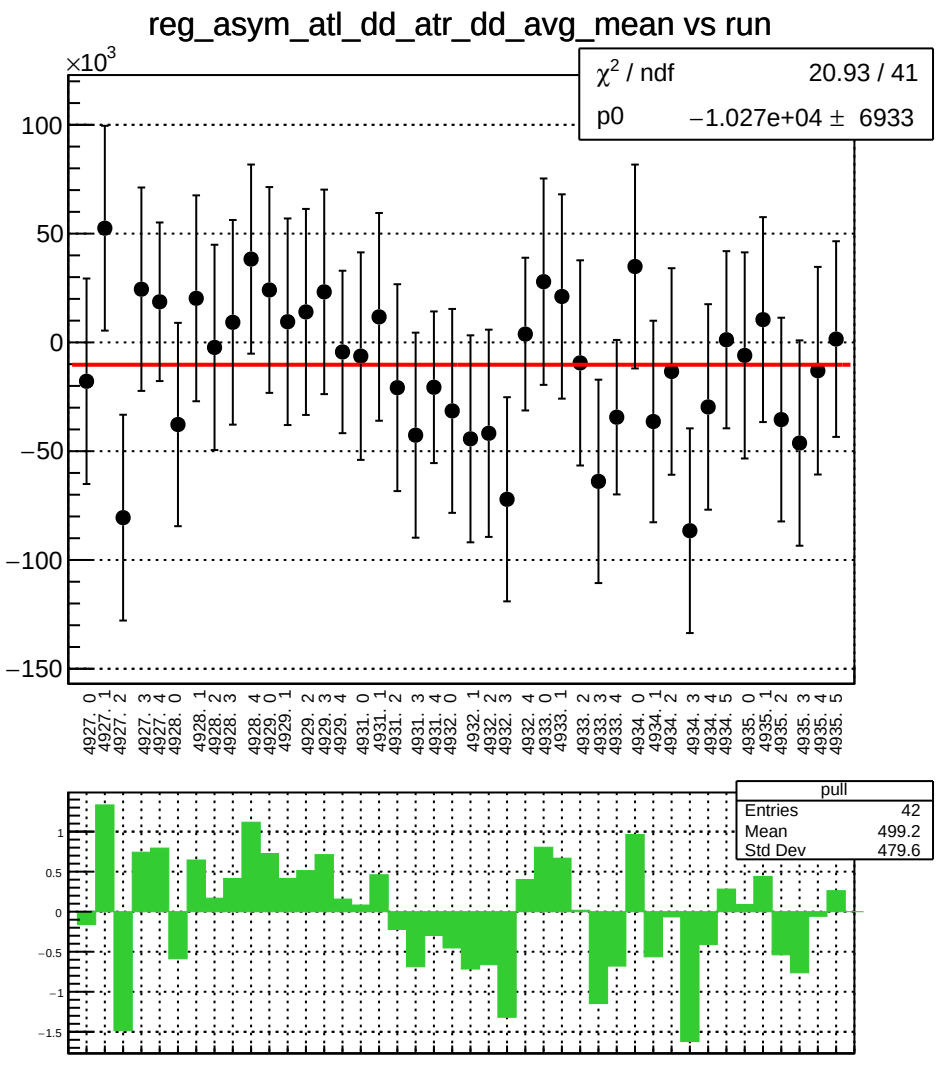

pull1D
Entries 42
Mean −0.02864
Std Dev 0.8542
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

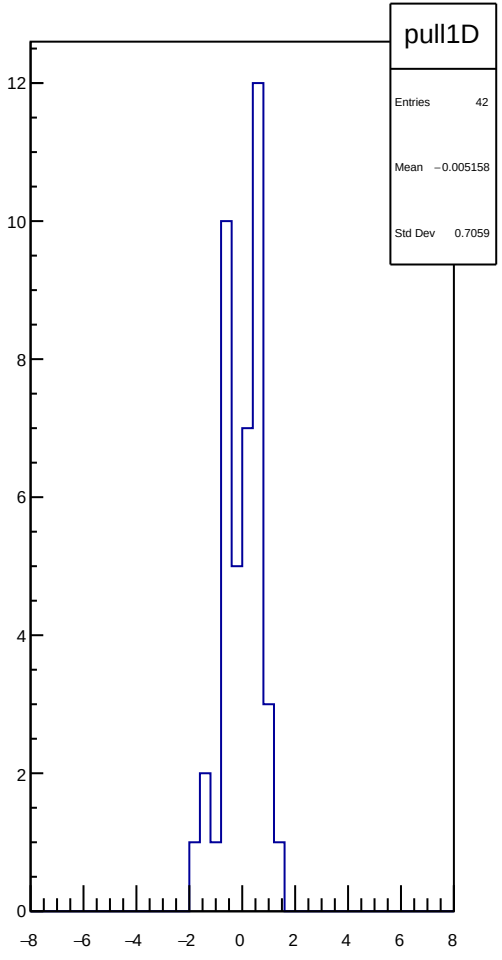

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 2.174e+04 / 41
p0 387.4 ± 0.4297
600
550
500
450
400
350
300
250
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

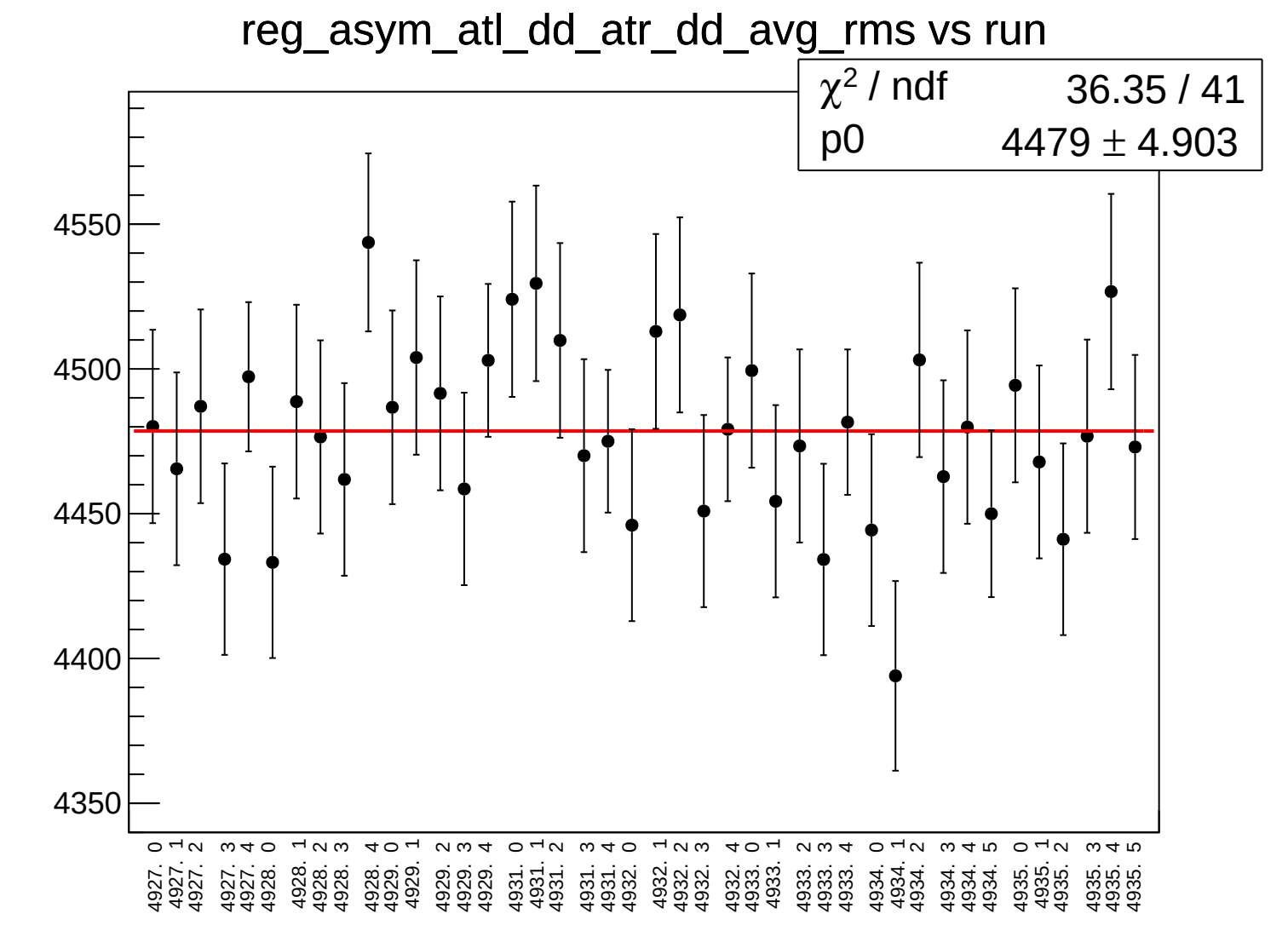

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 24.74 / 41
p0 −7331 ± 9945
200
150
100
50
0
−50
−100
−150
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 1729
Std Dev 1706
1.5
1
0.5
0
−0.5
−1

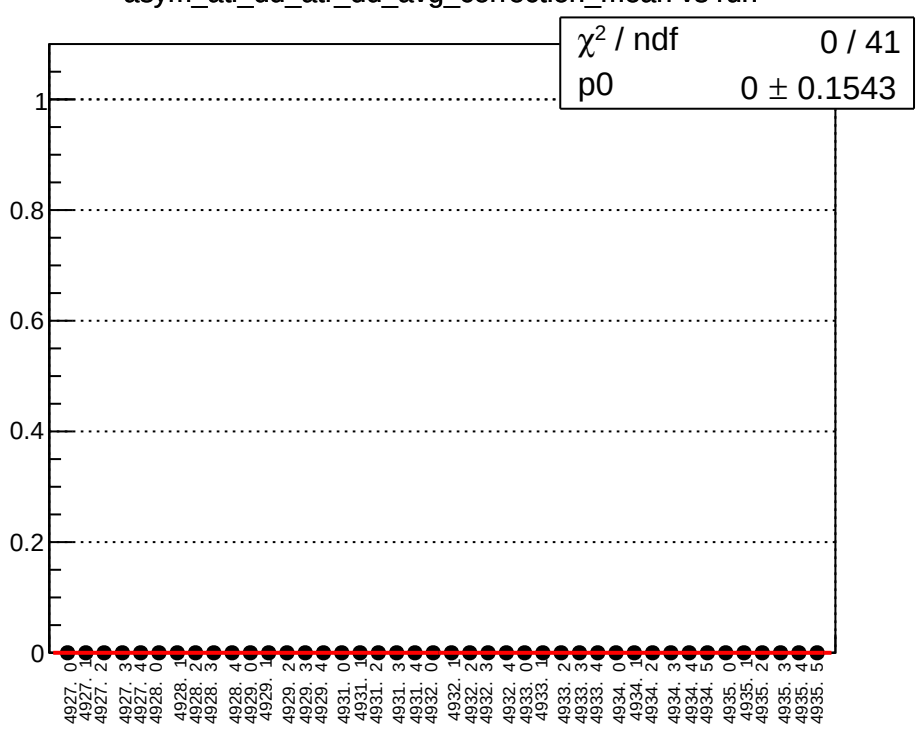

pull1D
Entries 42
Mean −0.0007003
Std Dev 0.7675
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

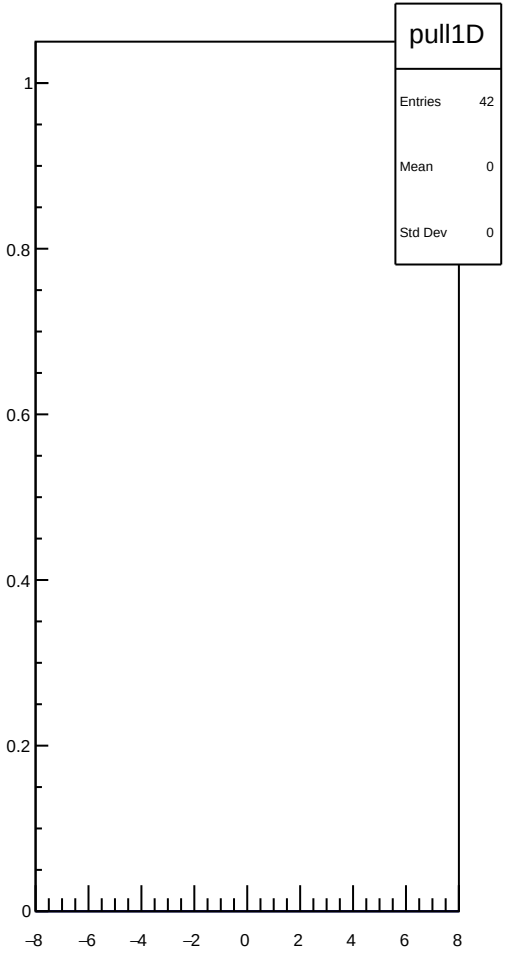

asym_atr1l2_dd_rms vs run
χ² / ndf 55.54 / 41
p0 6424 ± 7.032
6600
6550
6500
6450
6400
6350
6300
6250
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

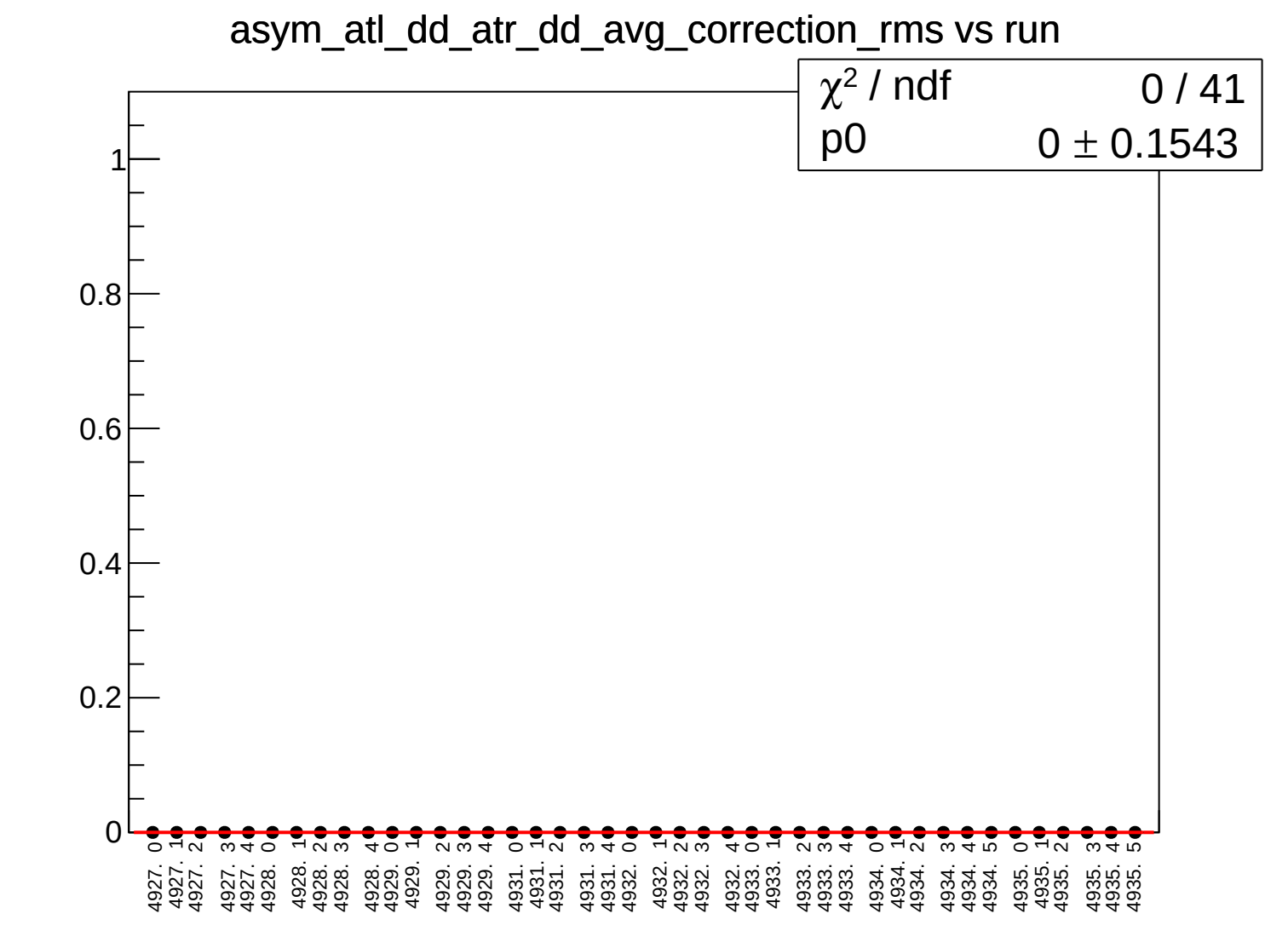

reg_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 20.93 / 41
p0 −1.027e+04 ± 6933
100
50
0
−50
−100
−150
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 499.2
Std Dev 479.6
1
0.5
0
−0.5
−1
−1.5

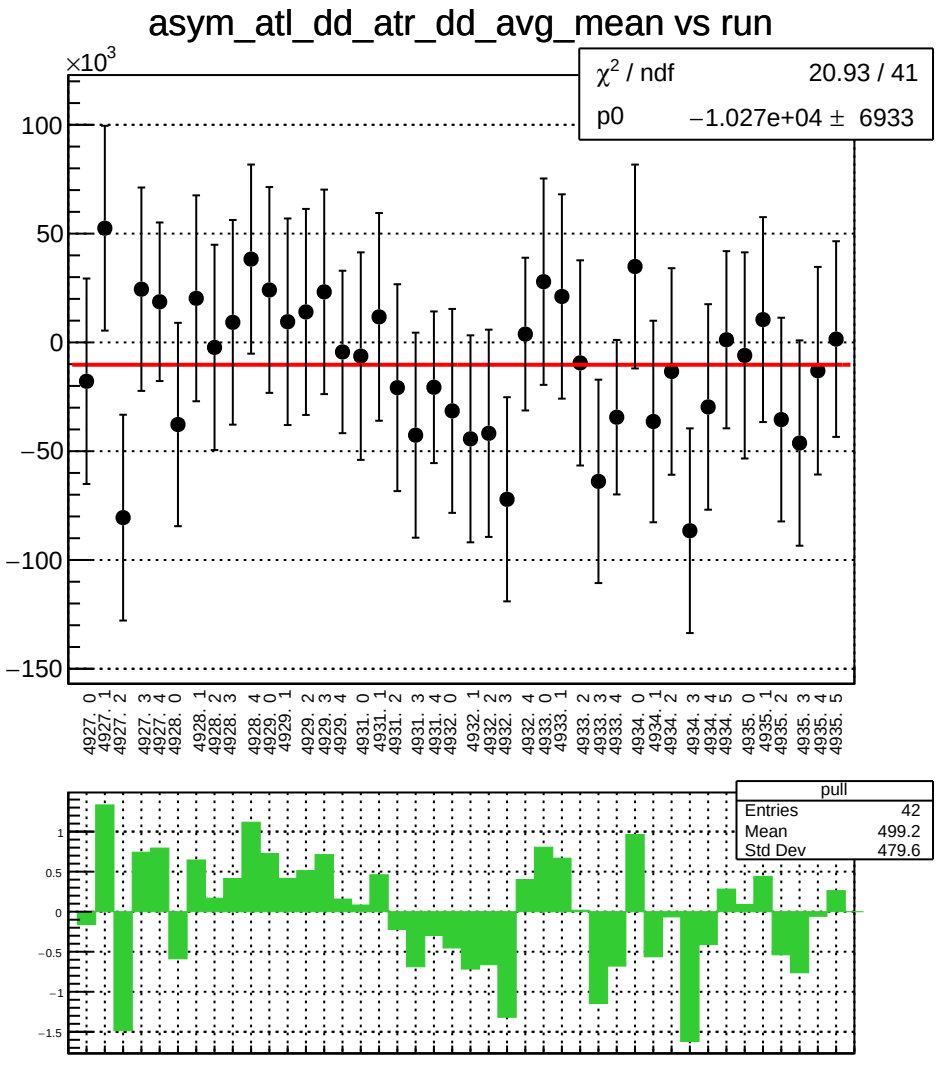

pull1D
Entries 42
Mean −0.005158
Std Dev 0.7059
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

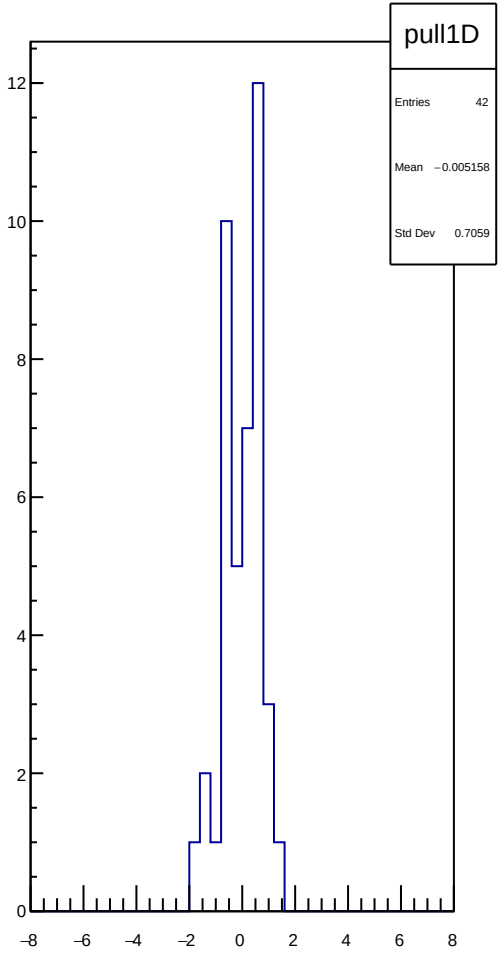

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 36.35 / 41
p0 4479 ± 4.903
4550
4500
4450
4400
4350
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

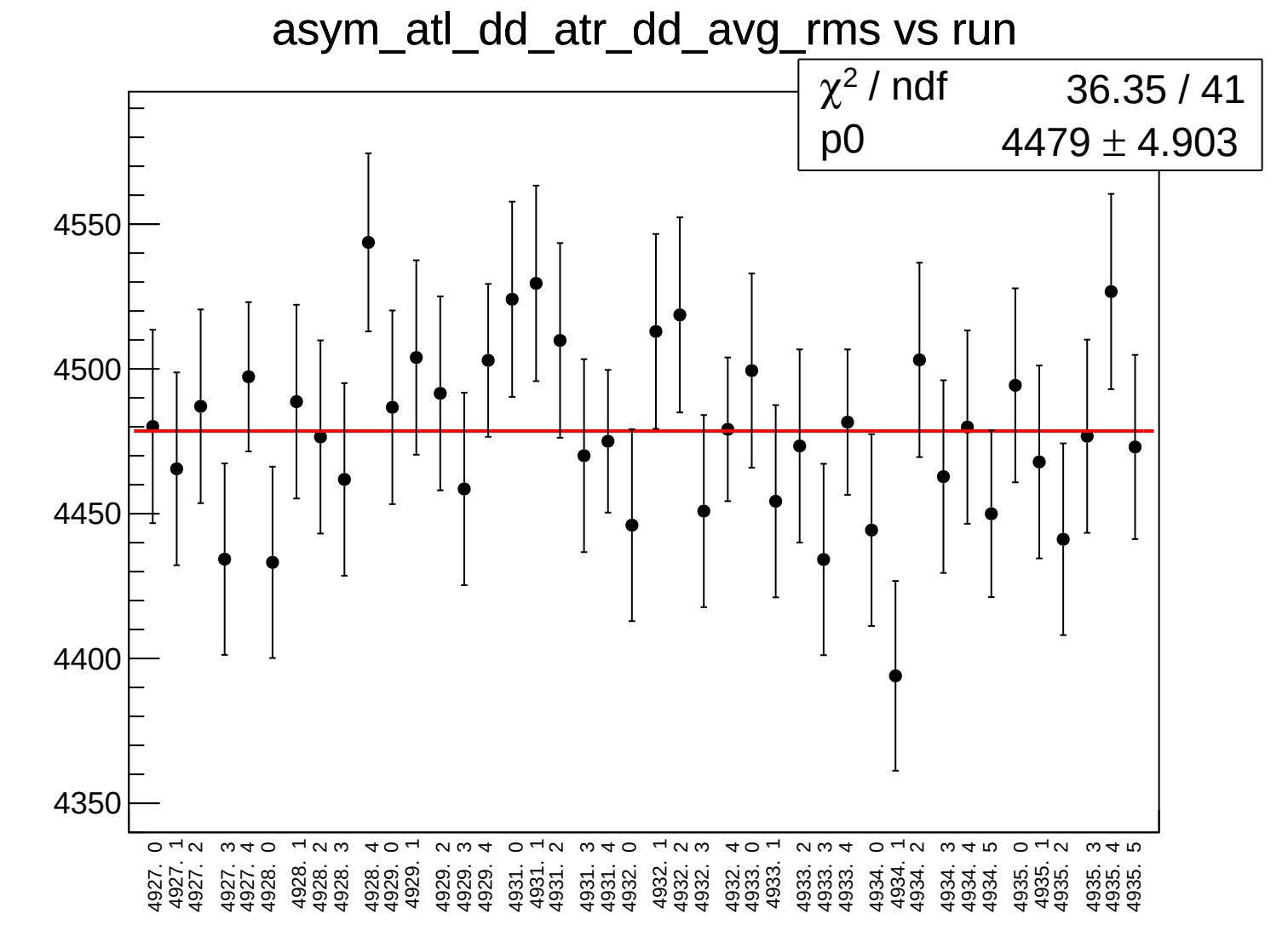

asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 41
p0 0 ± 0.1543
1
0.8
0.6
0.4
0.2
0
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

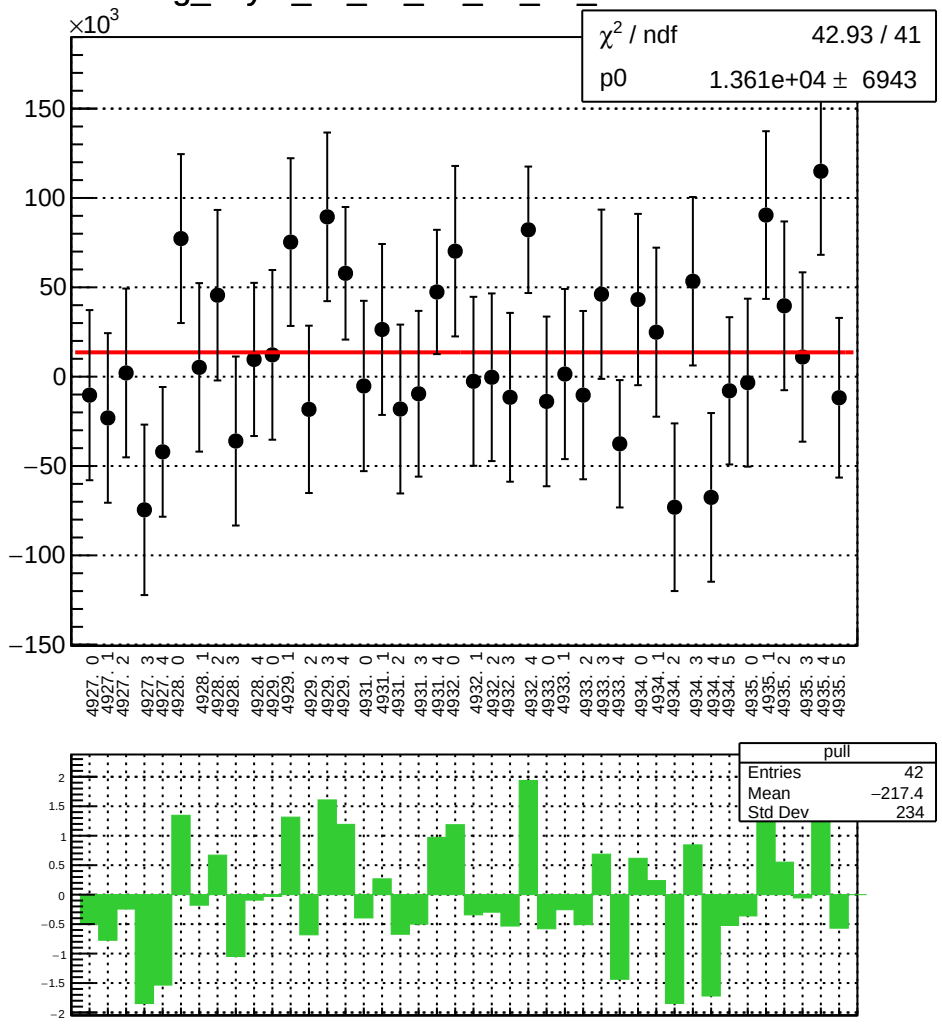

pull1D
Entries 42
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

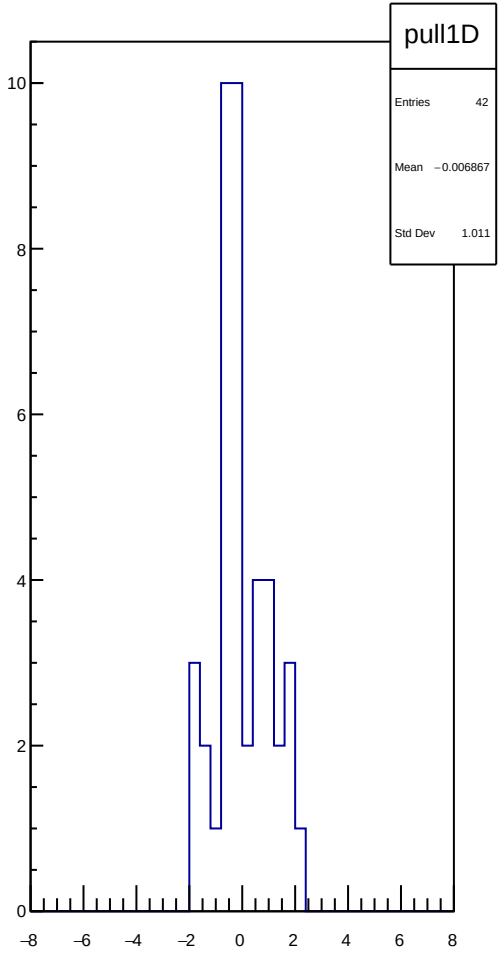

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 41
p0 0 ± 0.1543
1
0.8
0.6
0.4
0.2
0
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

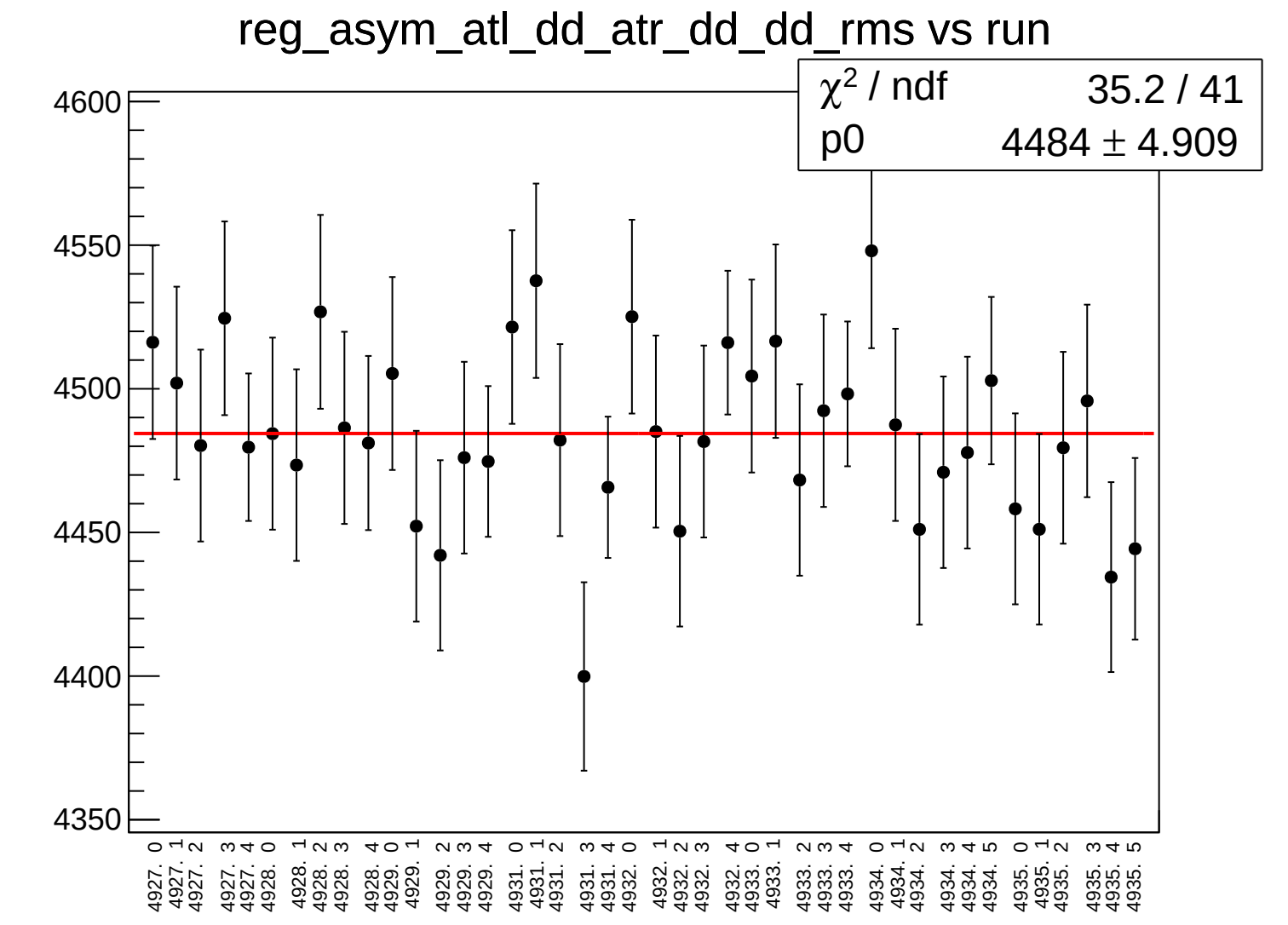

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 20.93 / 41
p0 −1.027e+04 ± 6933
100
50
0
−50
−100
−150
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 499.2
Std Dev 479.6
1
0.5
0
−0.5
−1
−1.5

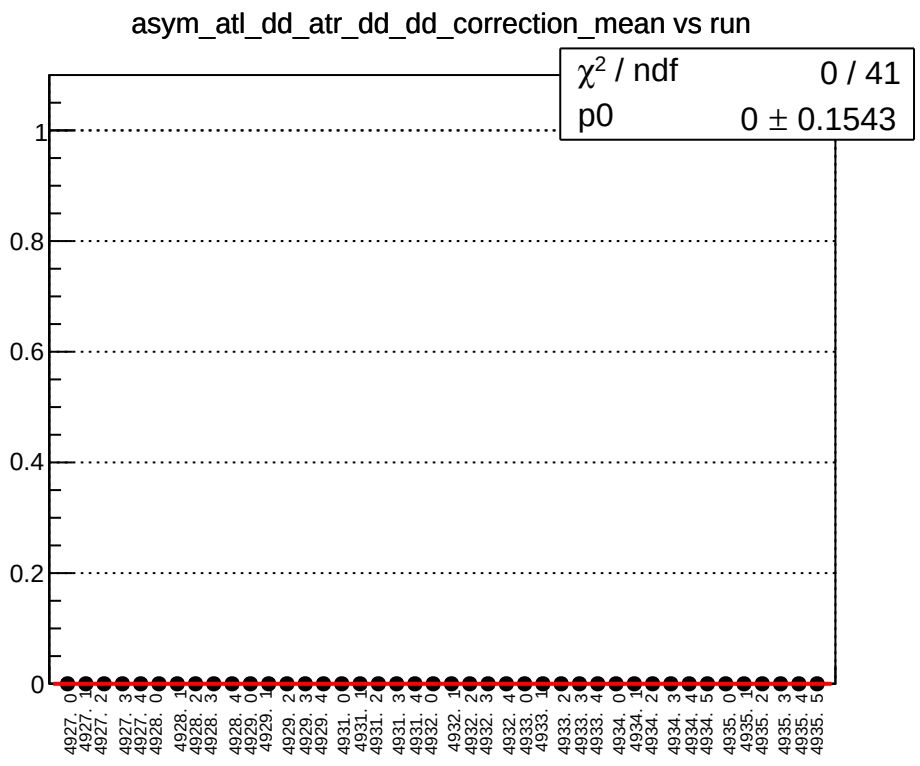

pull1D
Entries 42
Mean −0.005158
Std Dev 0.7059
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

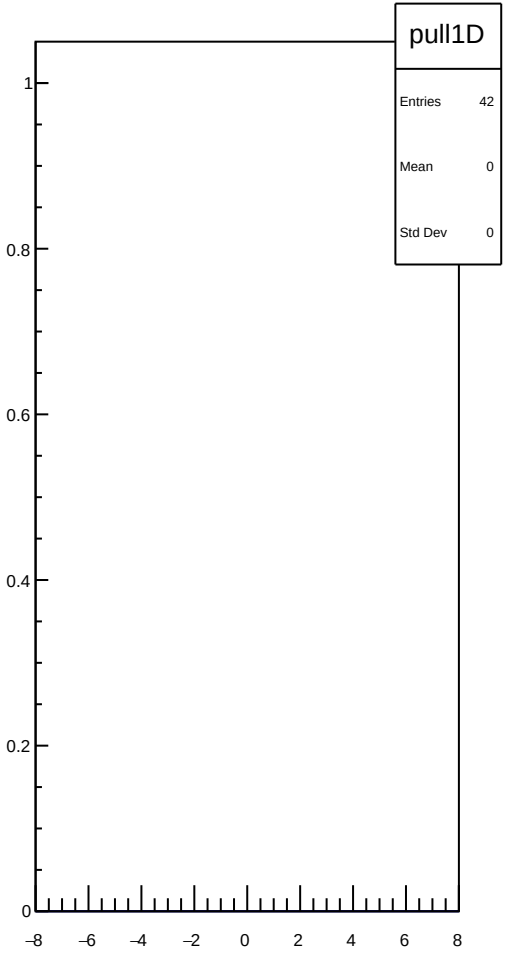

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 36.35 / 41
p0 4479 ± 4.903
4550
4500
4450
4400
4350
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

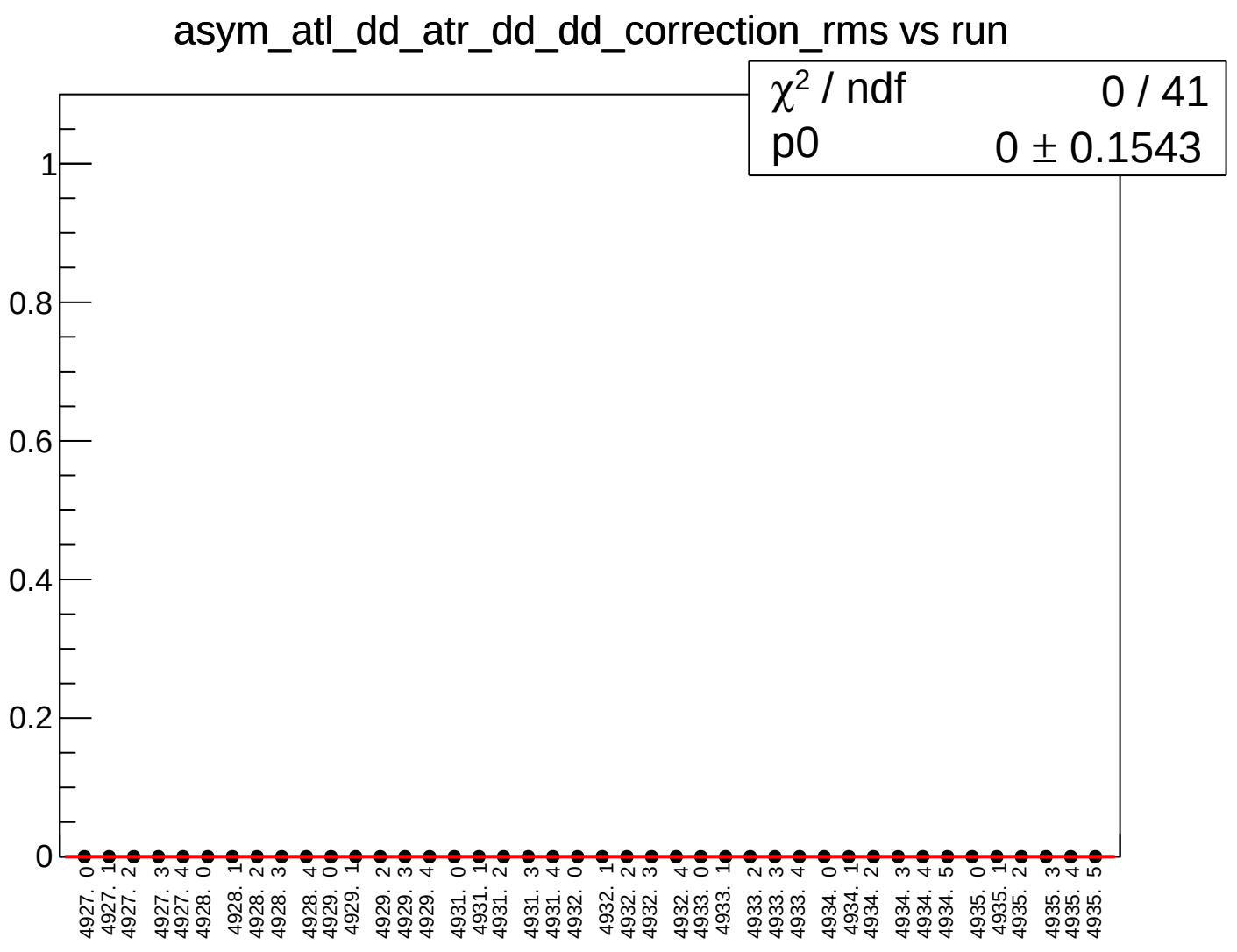

reg_asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 42.93 / 41
p0 1.361e+04 ± 6943
150
100
50
0
−50
−100
−150
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −217.4
Std Dev 234
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 42
Mean −0.006867
Std Dev 1.011
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 35.2 / 41
p0 4484 ± 4.909
4600
4550
4500
4450
4400
4350
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5


asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 41
p0 0 ± 0.1543
1
0.8
0.6
0.4
0.2
0
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5


pull1D
Entries 42
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 0 / 41
p0 0 ± 0.1543
1
0.8
0.6
0.4
0.2
0
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
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4932. 1
4932. 2
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4933. 1
4933. 2
4933. 3
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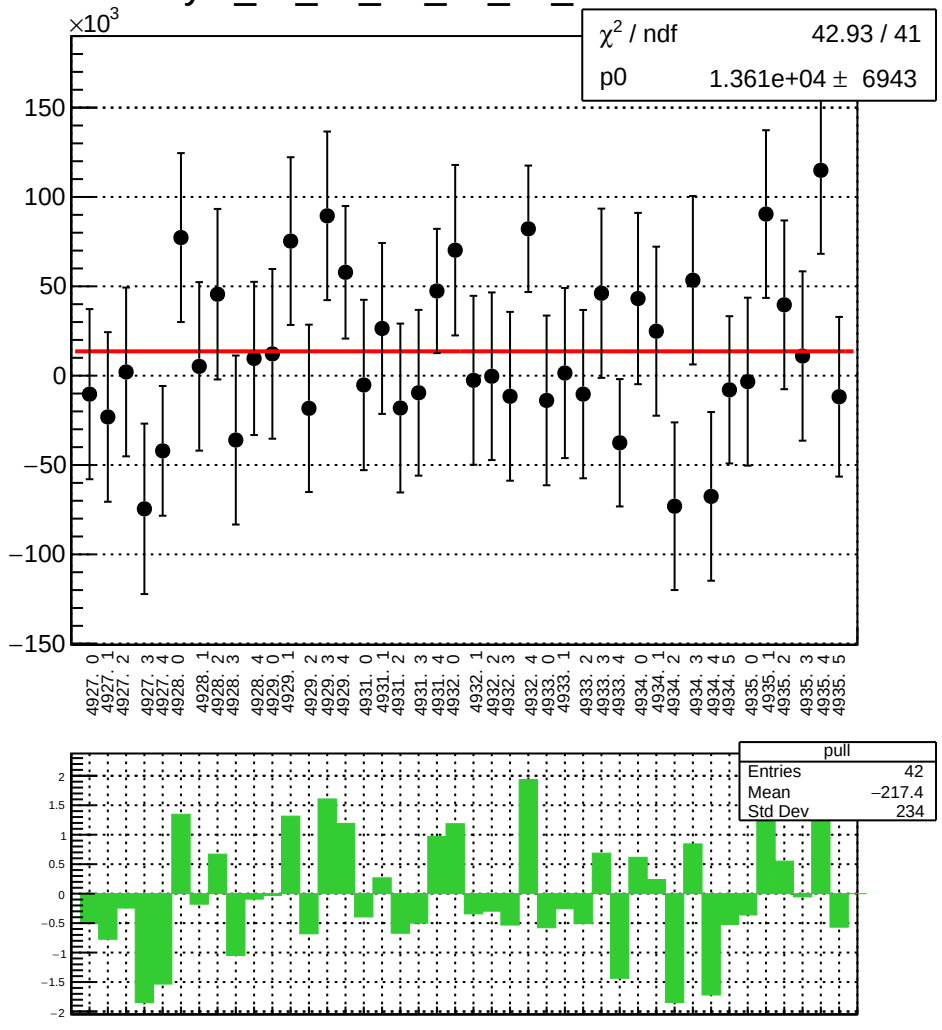
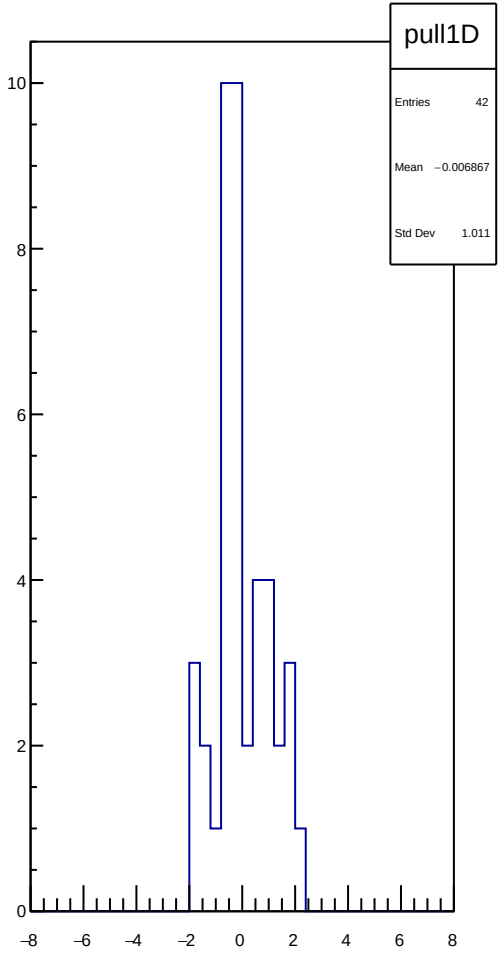
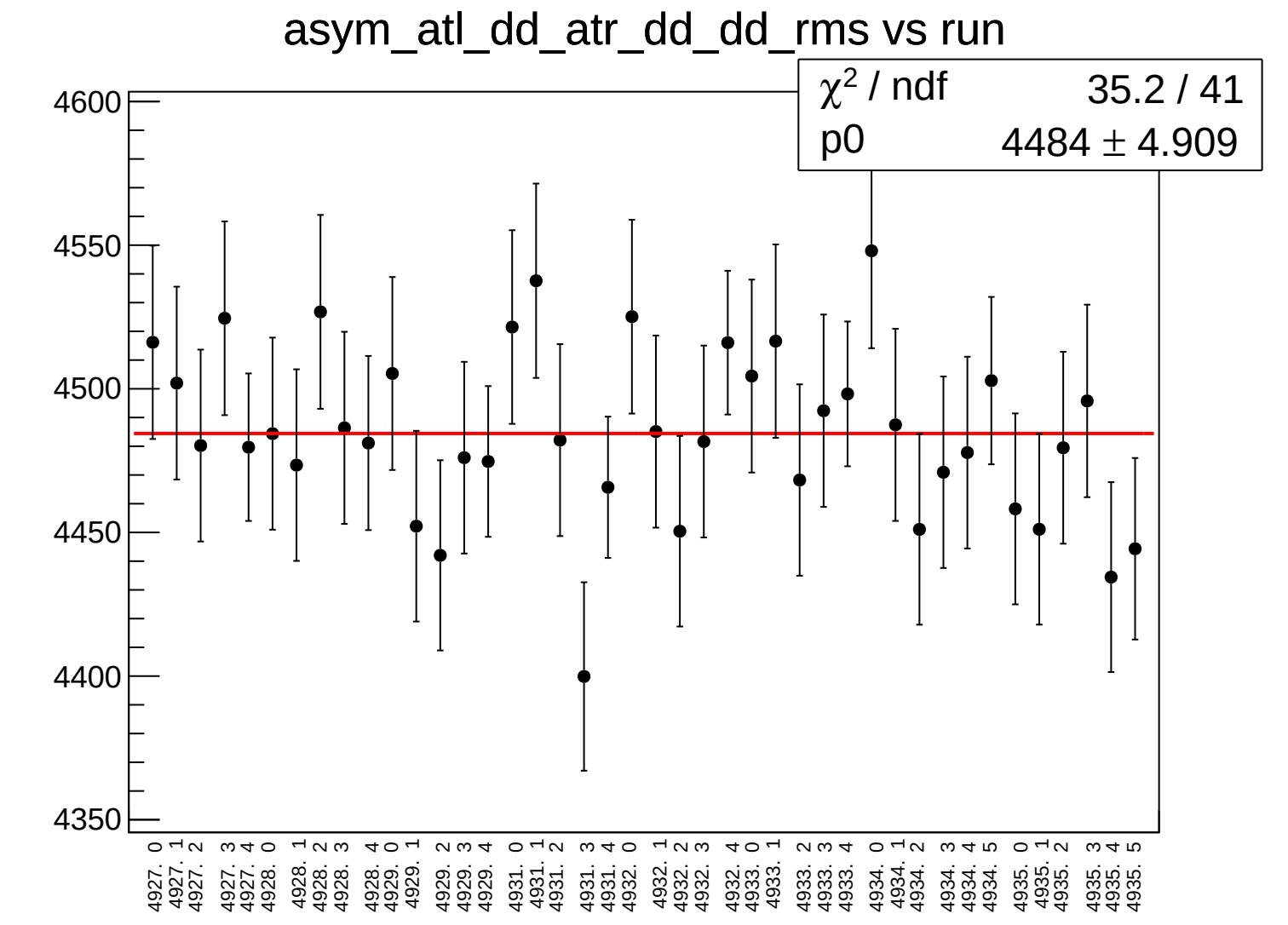
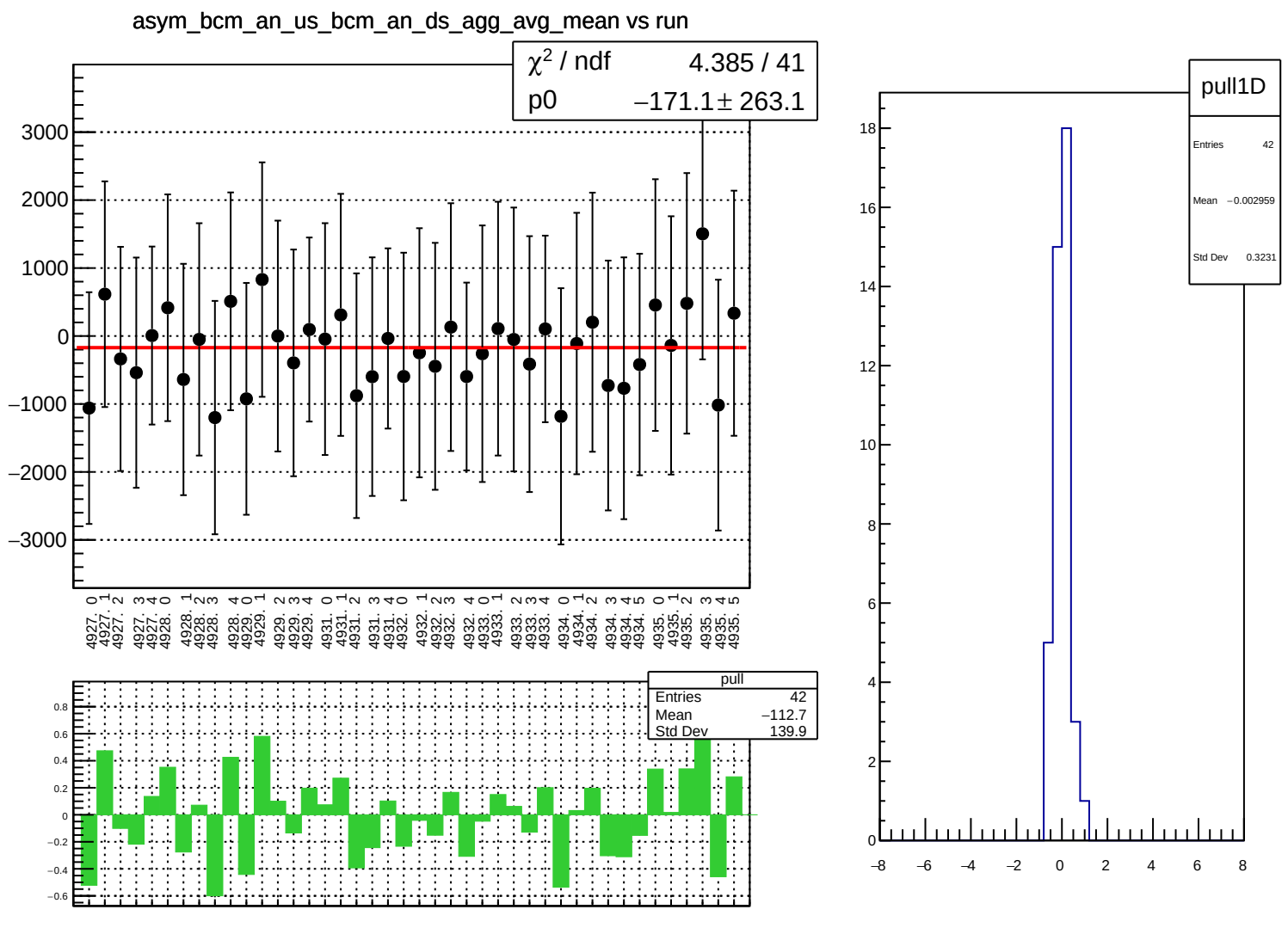
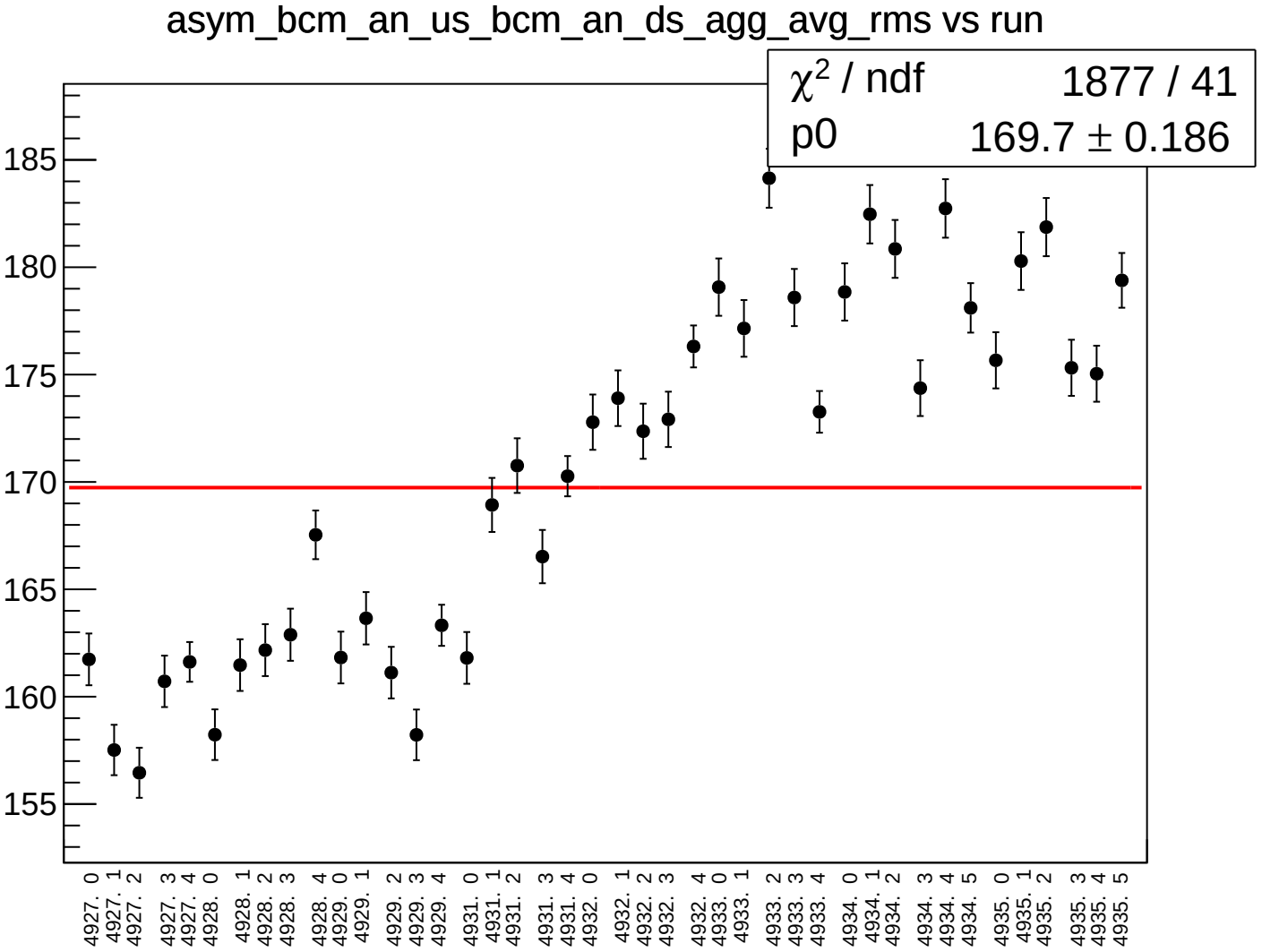
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

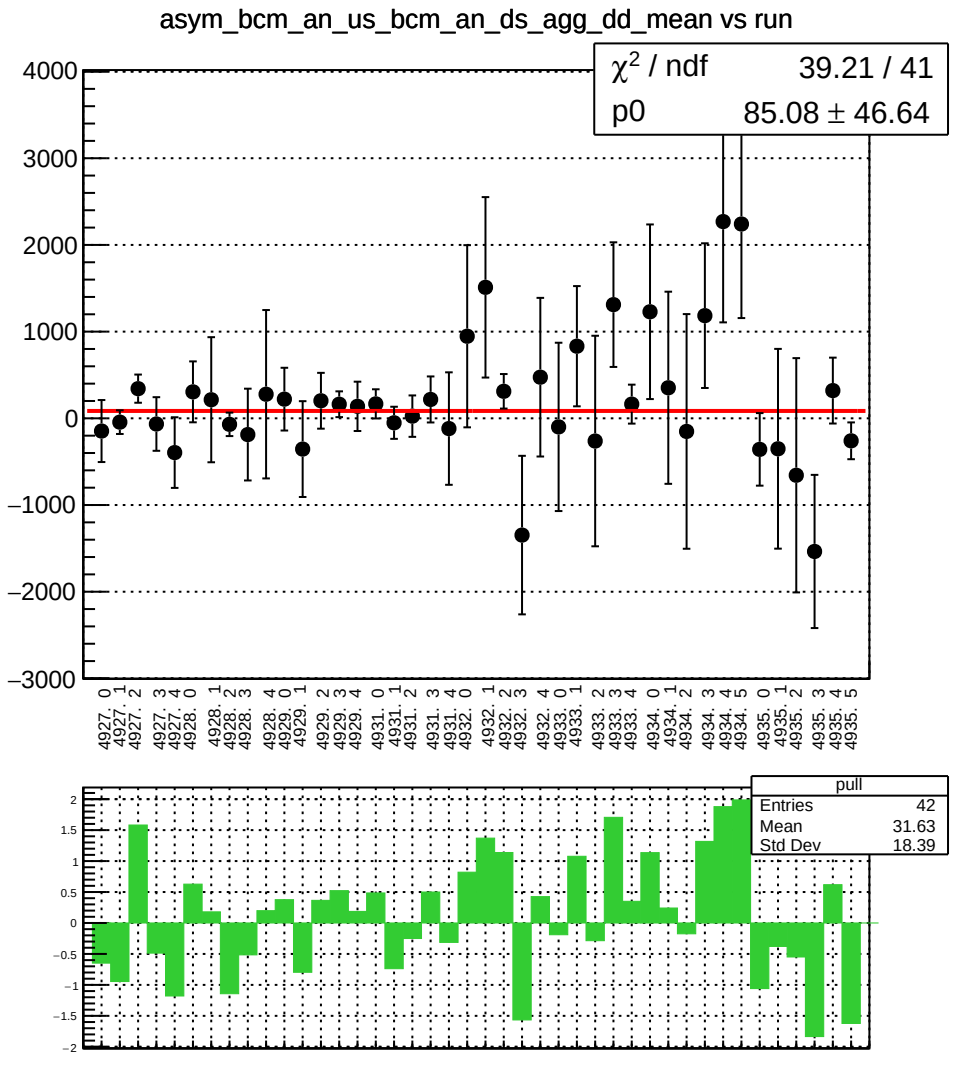

asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 42.93 / 41
p0 1.361e+04 ± 6943
150
100
50
0
−50
−100
−150
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −217.4
Std Dev 234
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

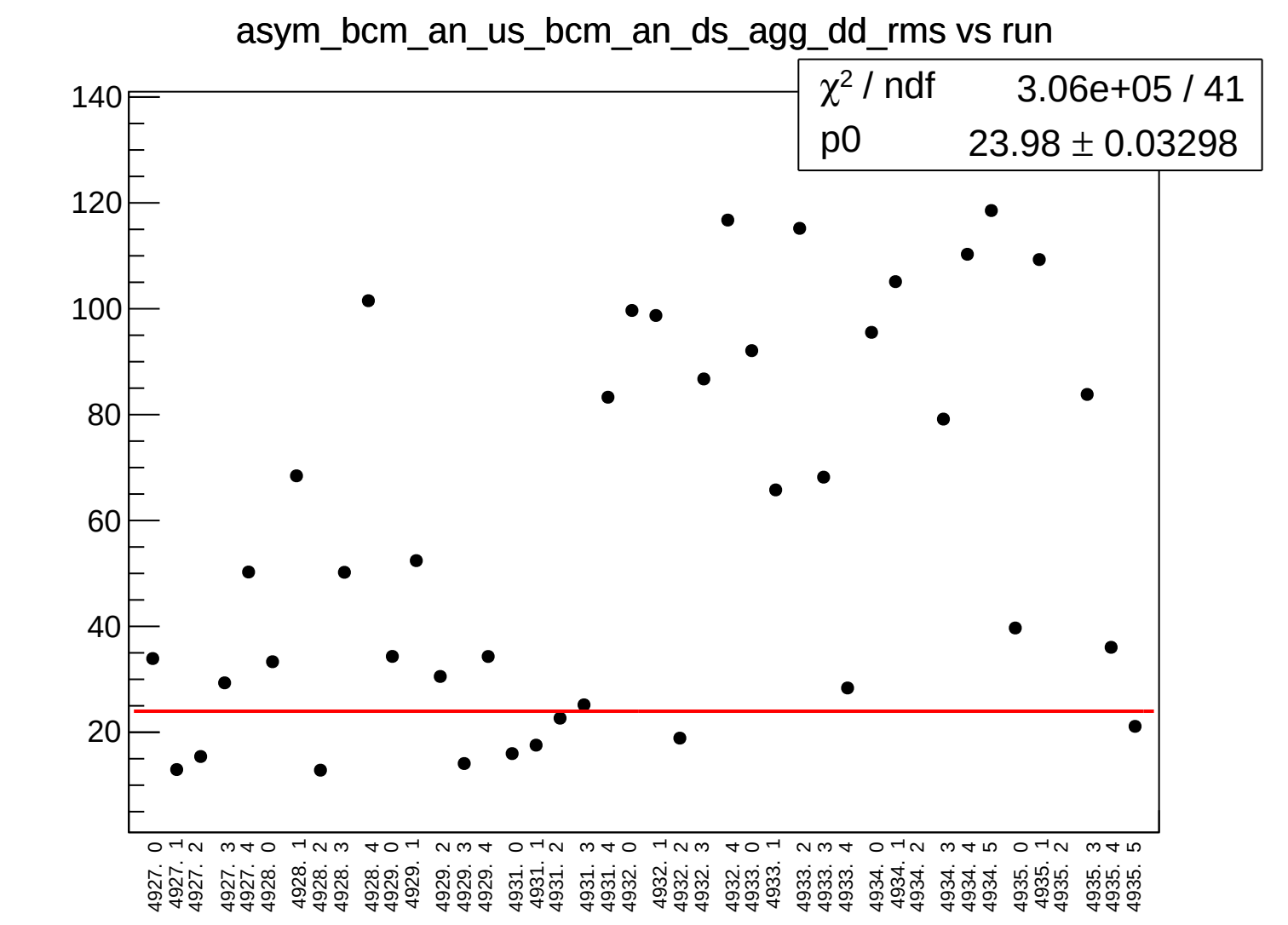

pull1D
Entries 42
Mean −0.006867
Std Dev 1.011
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

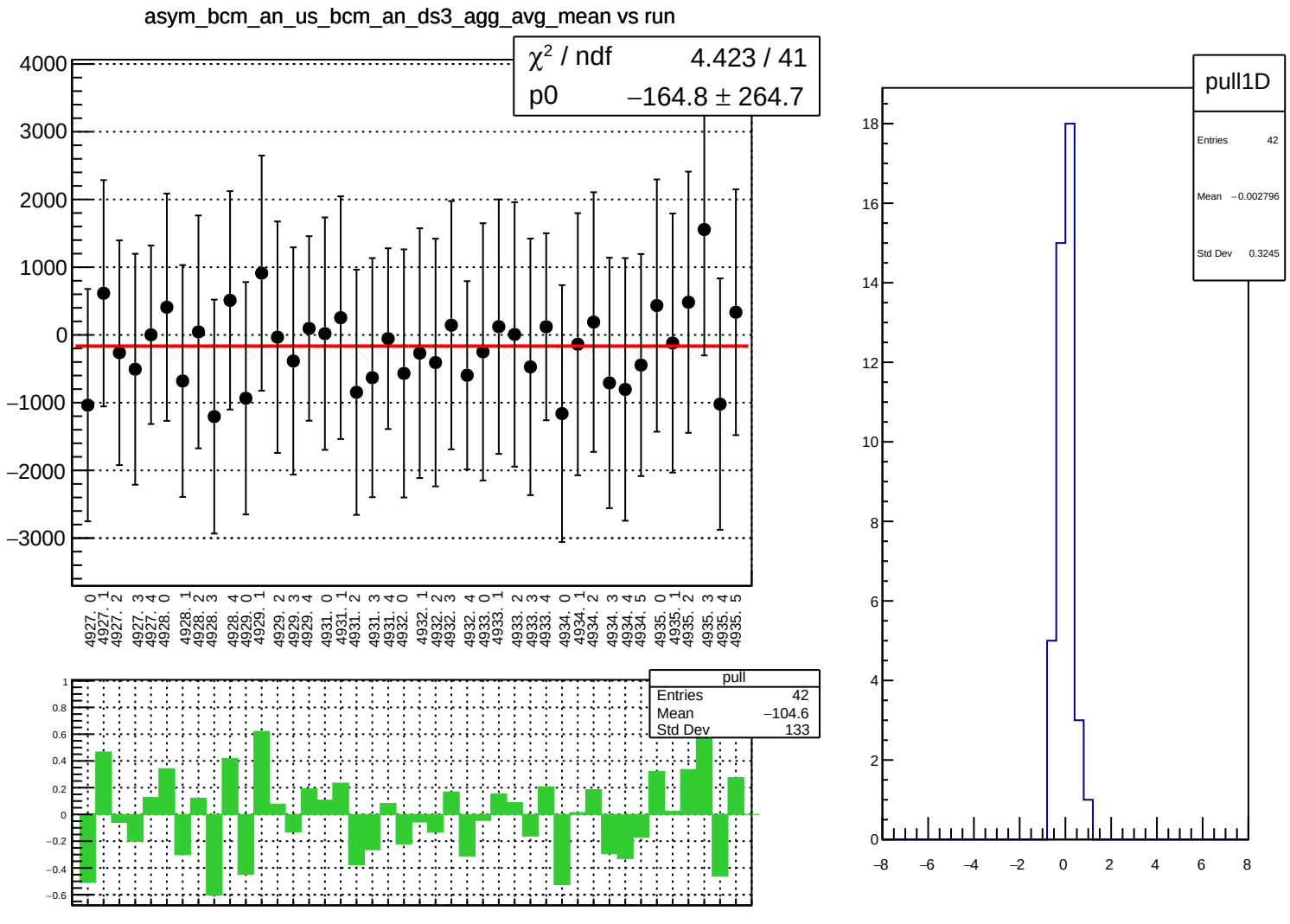

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 35.2 / 41
p0 4484 ± 4.909
4600
4550
4500
4450
4400
4350
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

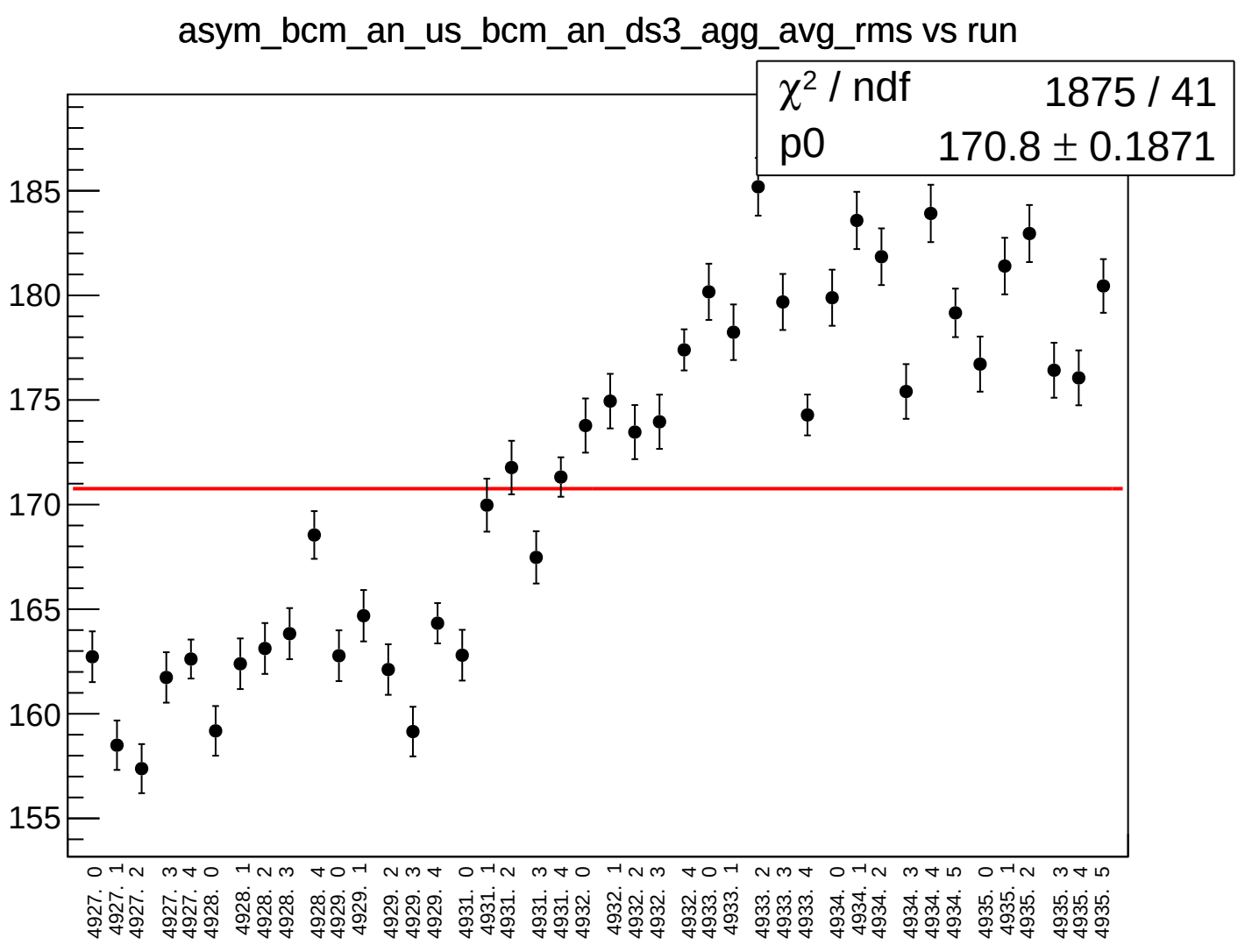

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 4.385 / 41
p0 −171.1 ± 263.1
3000
2000
1000
0
−1000
−2000
−3000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −112.7
Std Dev 139.9
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 42
Mean −0.002959
Std Dev 0.3231
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

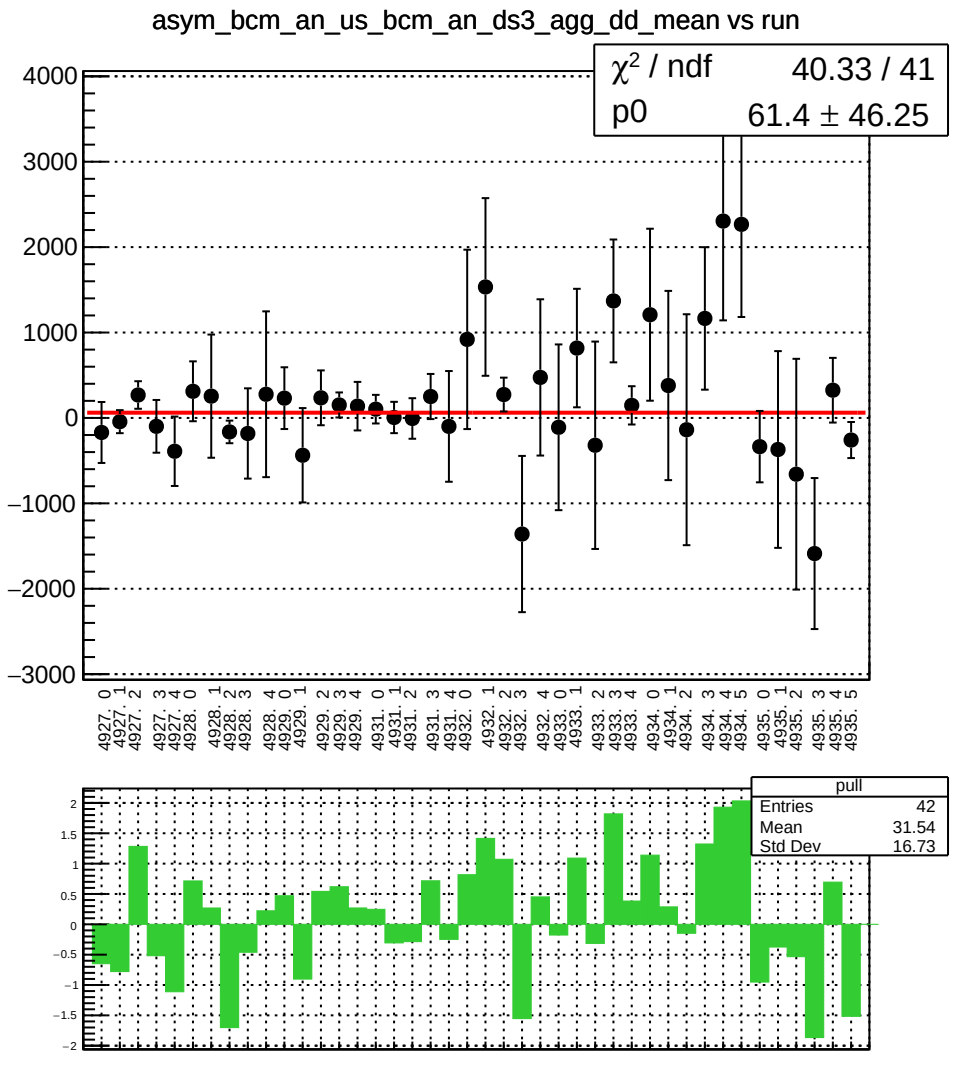

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1877 / 41
p0 169.7 ± 0.186
185
180
175
170
165
160
155
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

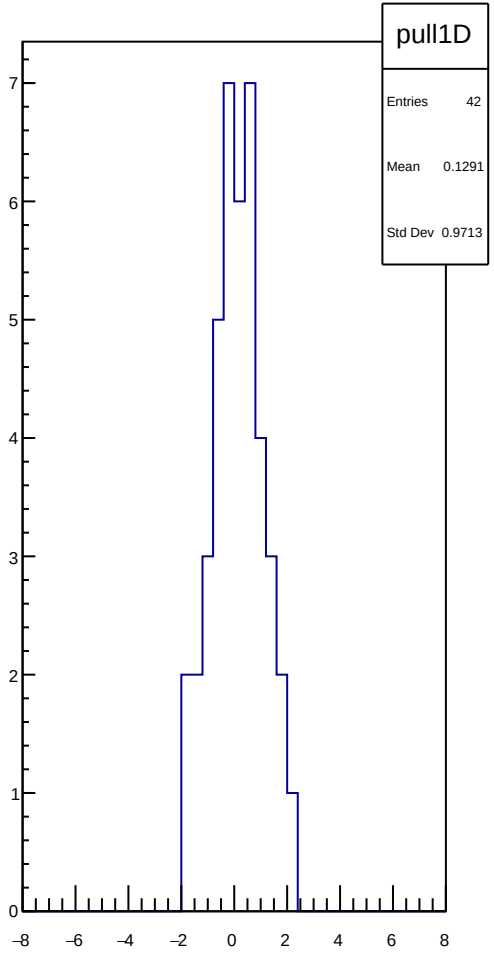

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 39.21 / 41
p0 85.08 ± 46.64
4000
3000
2000
1000
0
−1000
−2000
−3000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 31.63
Std Dev 18.39
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 42
Mean 0.1051
Std Dev 0.9605
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

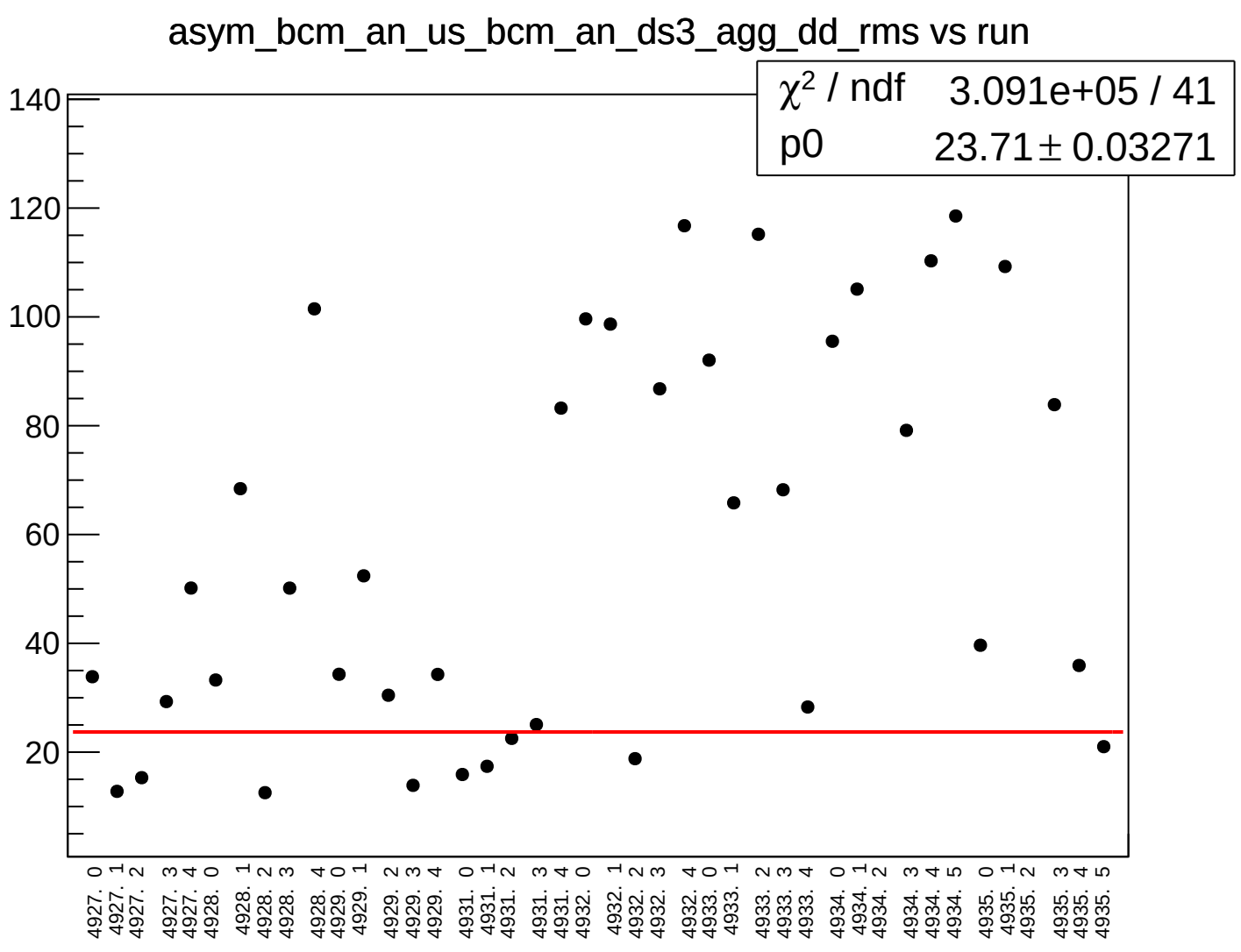

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3.06e+05 / 41
p0 23.98 ± 0.03298
140
120
100
80
60
40
20
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

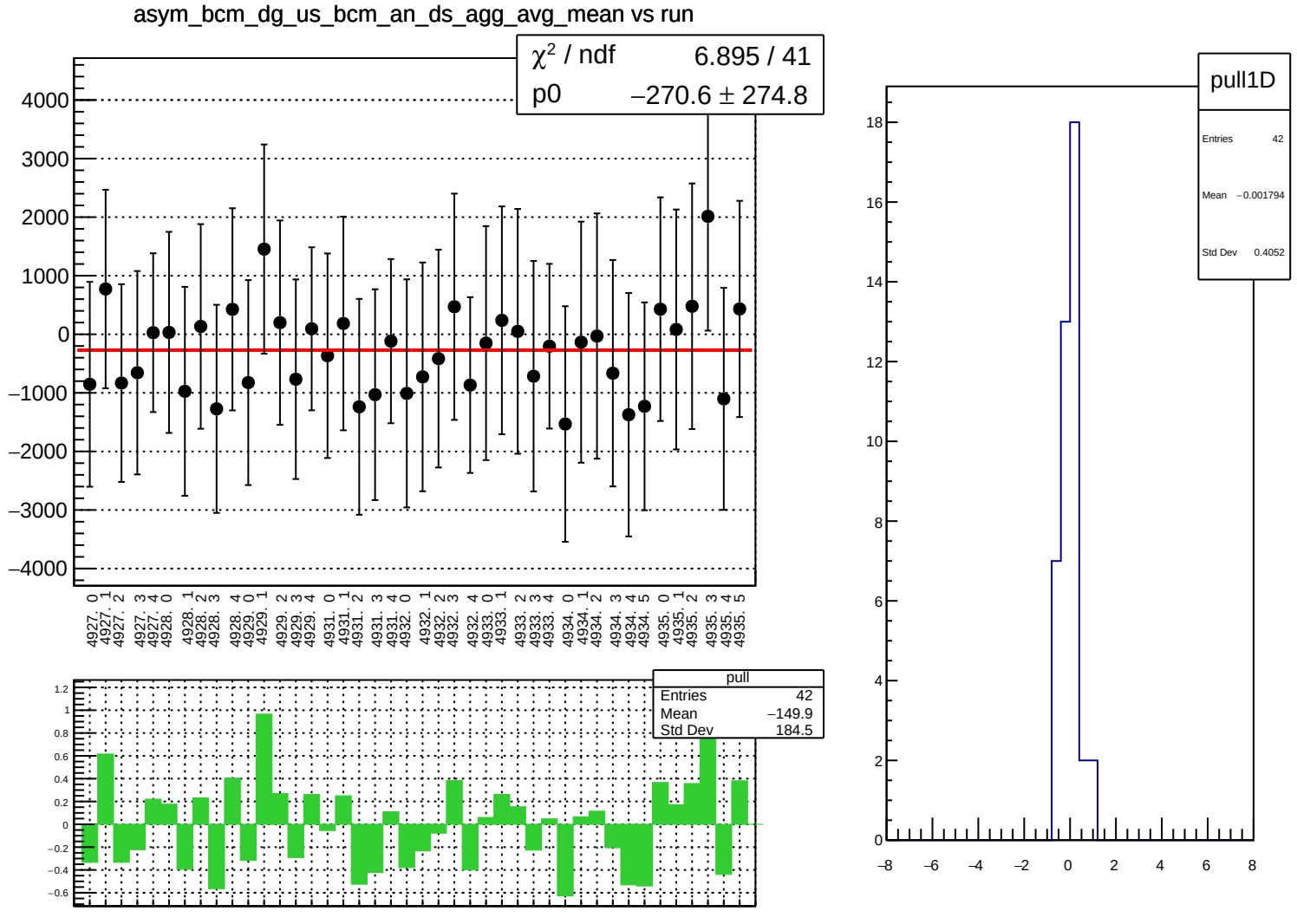

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 4.423 / 41
p0 −164.8 ± 264.7
4000
3000
2000
1000
0
−1000
−2000
−3000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935.
pull
Entries 42
Mean −104.6
Std Dev 133
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 42
Mean −0.002796
Std Dev 0.3245
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

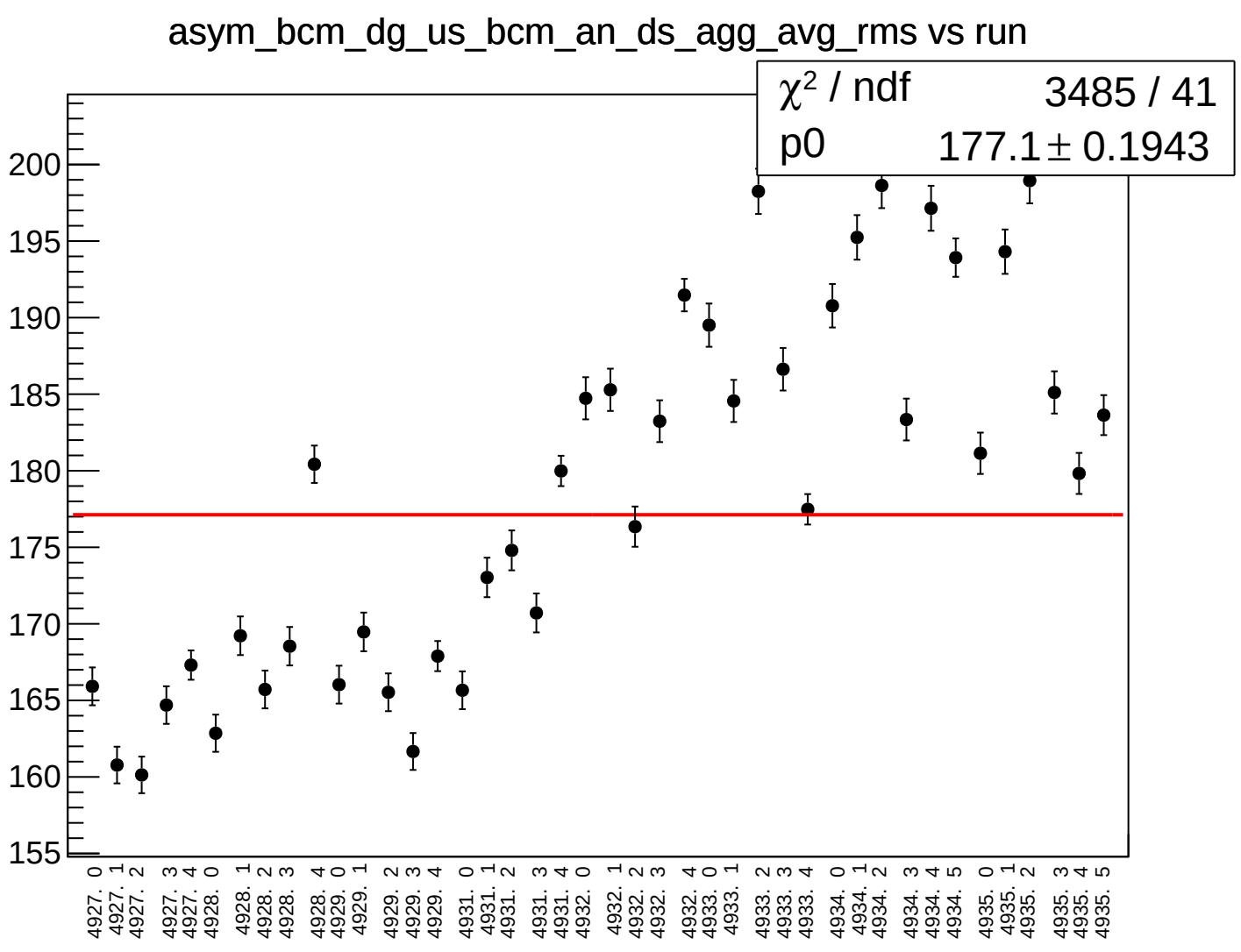

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 1875 / 41
p0 170.8 ± 0.1871
185
180
175
170
165
160
155
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

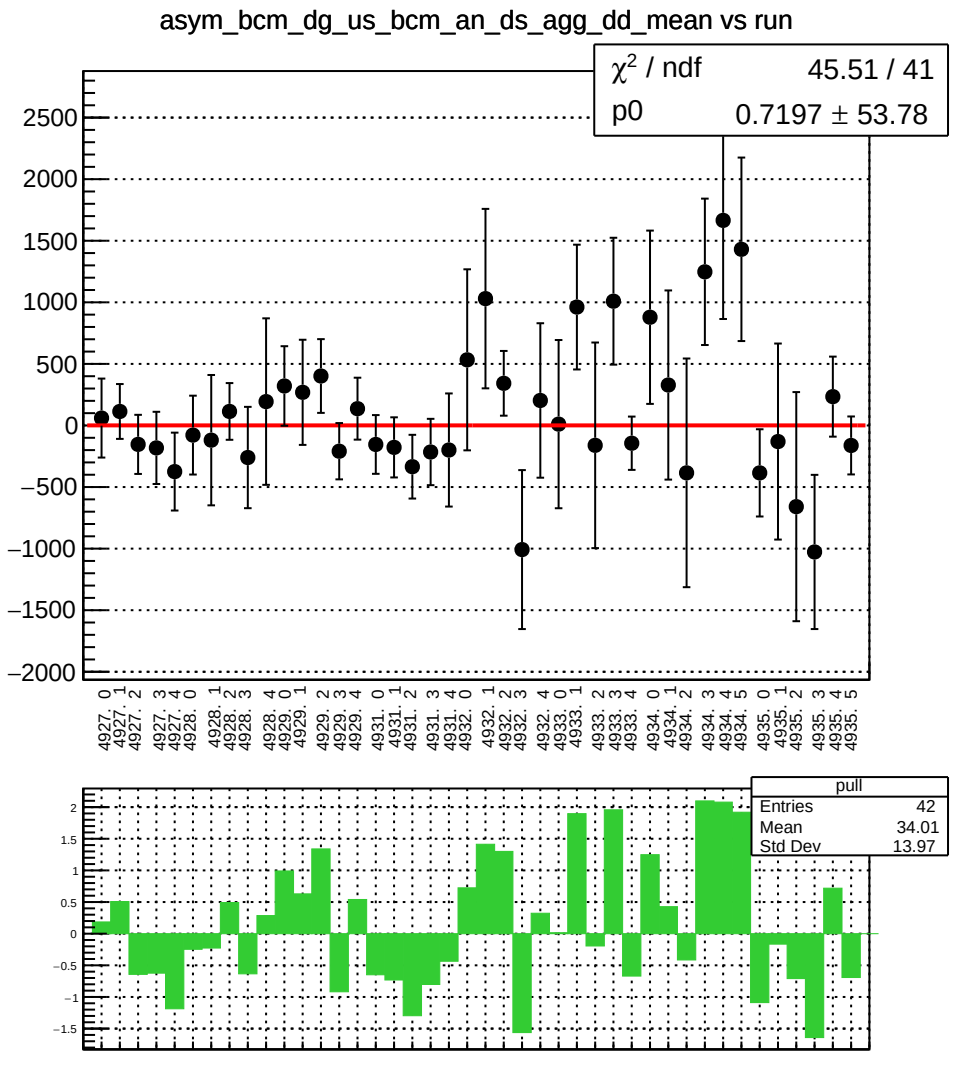

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 40.33 / 41
p0 61.4 ± 46.25
pull
Entries 42
Mean 31.54
Std Dev 16.73

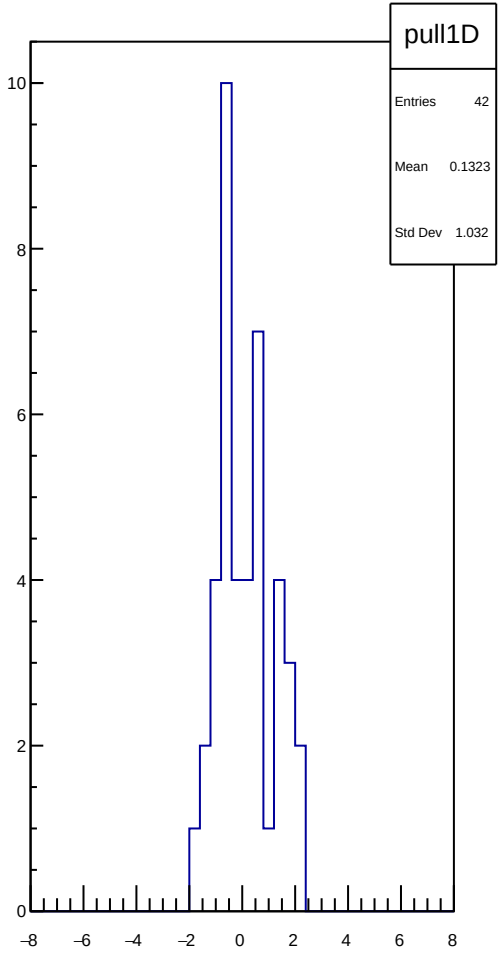

pull1D
Entries 42
Mean 0.1291
Std Dev 0.9713

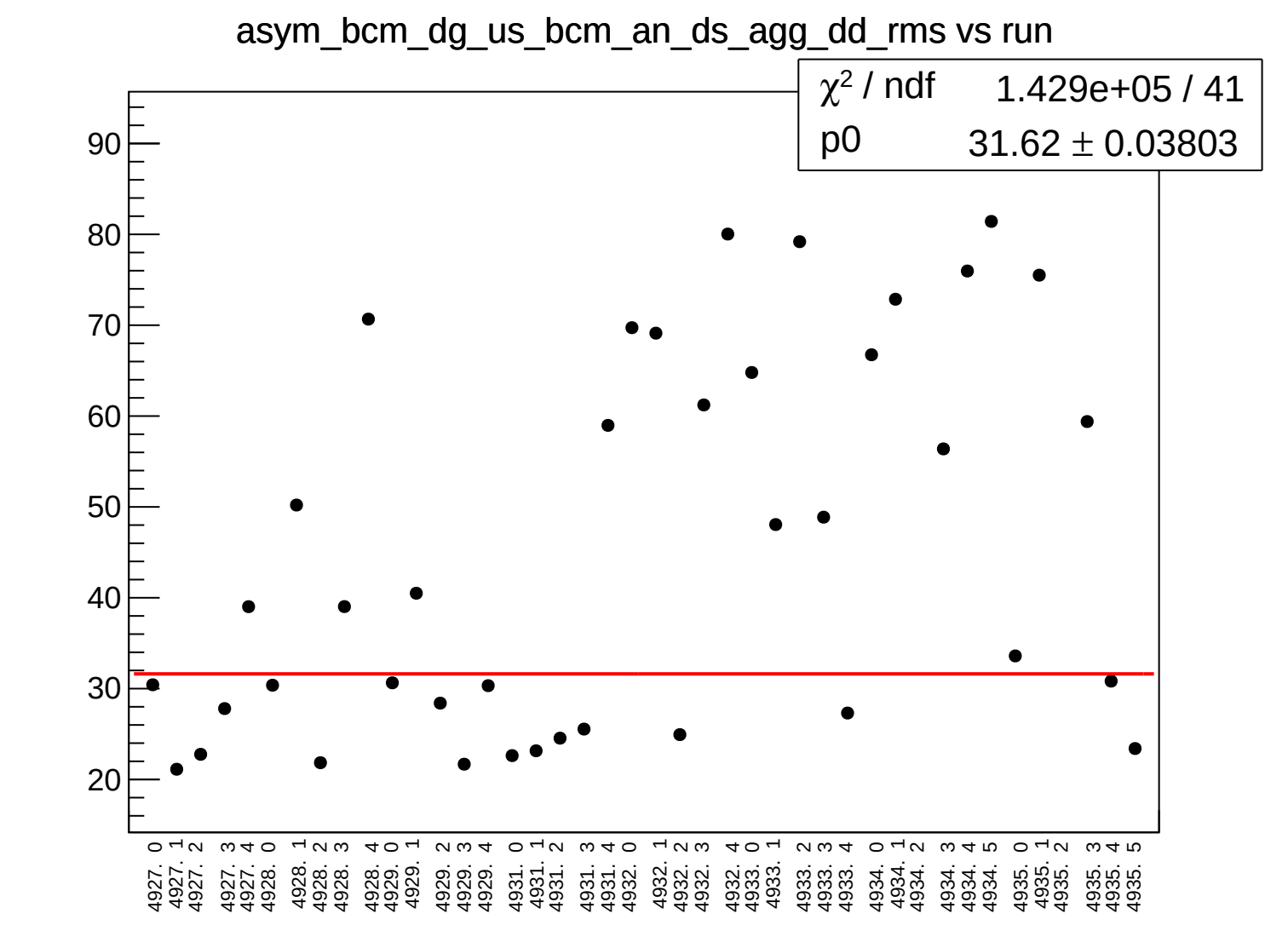

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 3.091e+05 / 41
p0 23.71 ± 0.03271
140
120
100
80
60
40
20
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

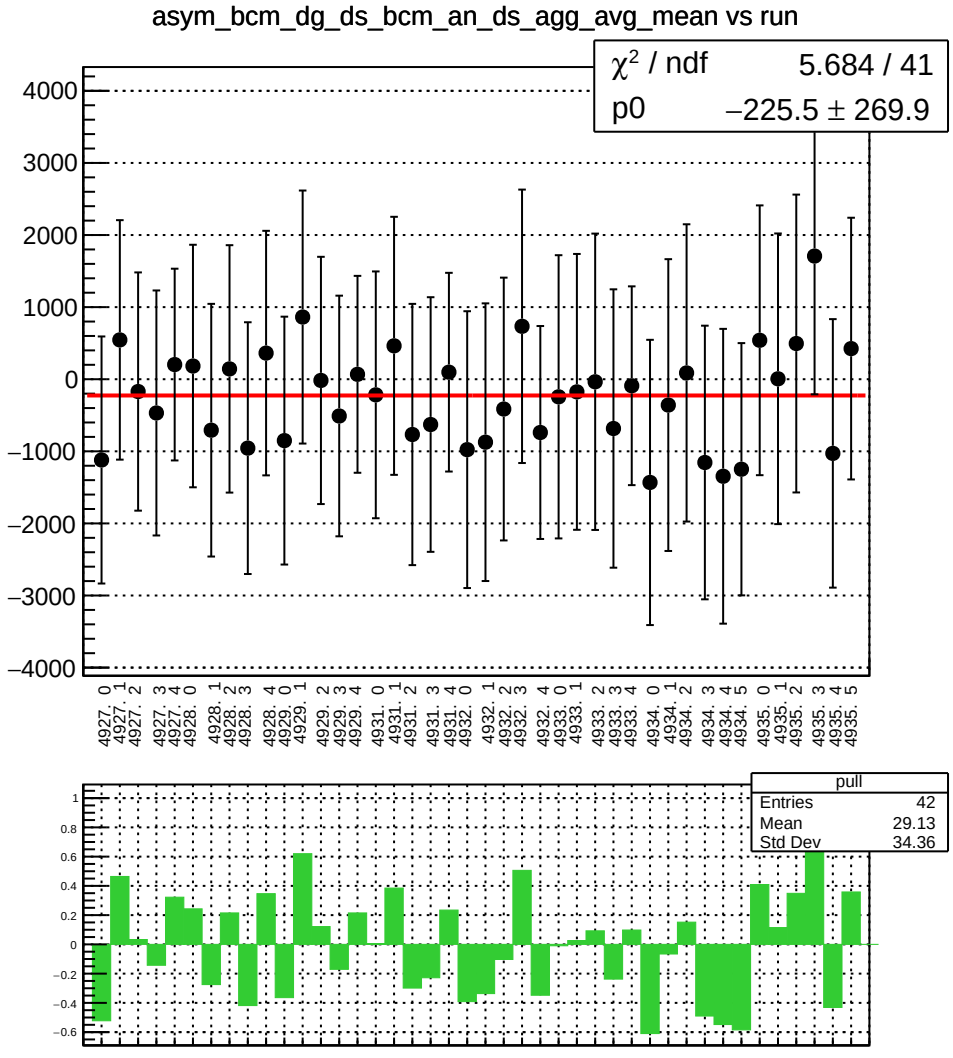

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 6.895 / 41
p0 −270.6 ± 274.8
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −149.9
Std Dev 184.5
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 42
Mean −0.001794
Std Dev 0.4052
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

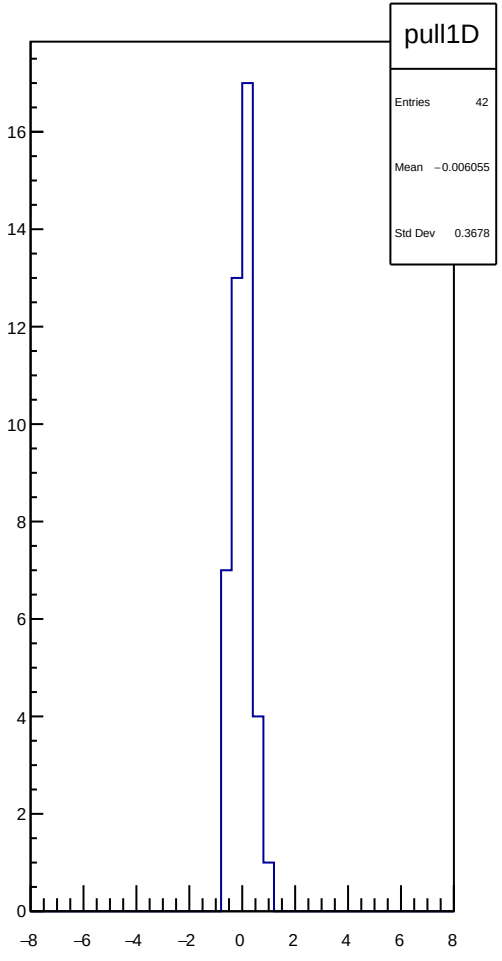

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3485 / 41
p0 177.1 ± 0.1943
200
195
190
185
180
175
170
165
160
155
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

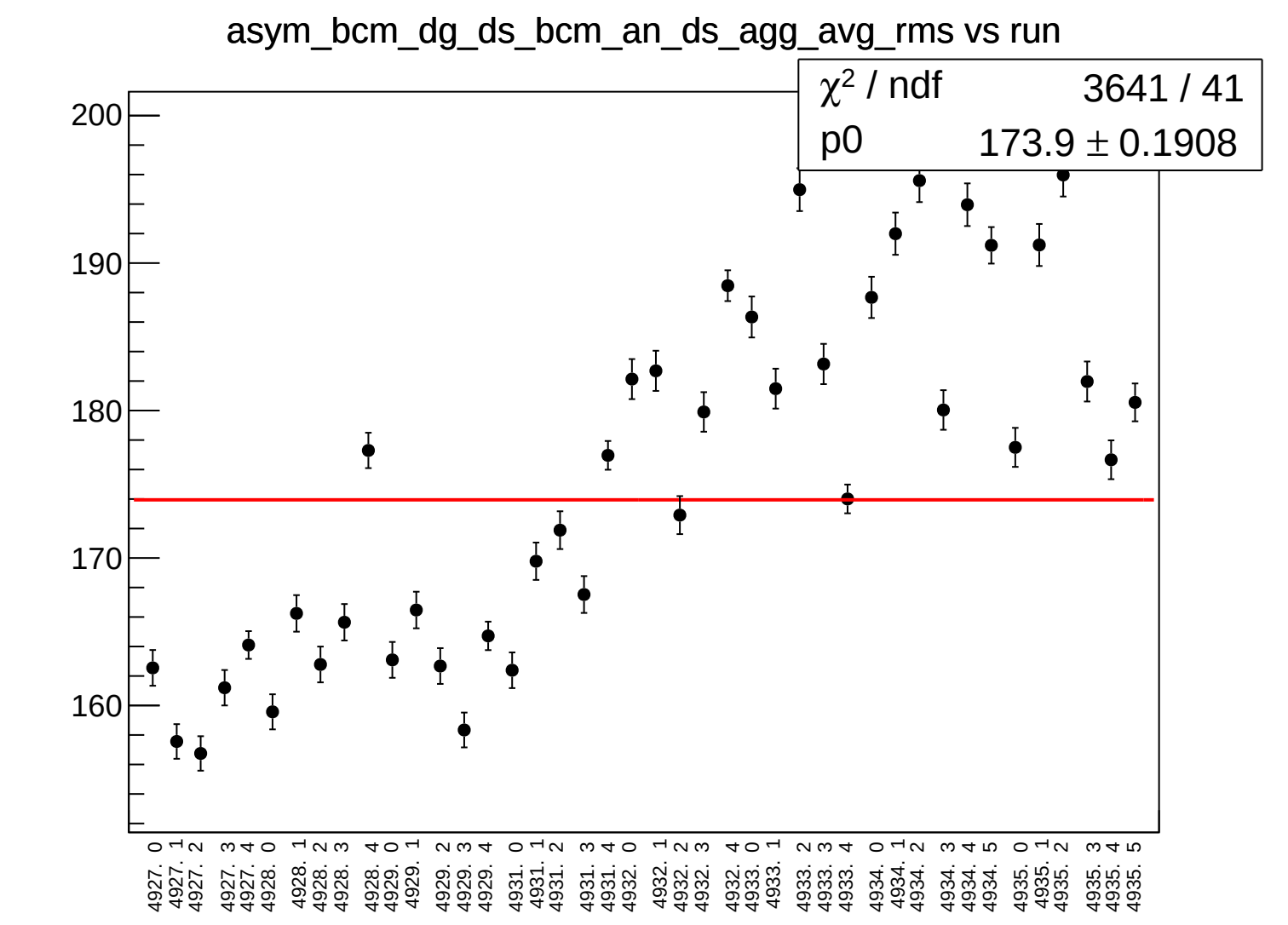

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 45.51 / 41
p0 0.7197 ± 53.78
2500
2000
1500
1000
500
0
−500
−1000
−1500
−2000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 34.01
Std Dev 13.97
2
1.5
1
0.5
0
−0.5
−1
−1.5

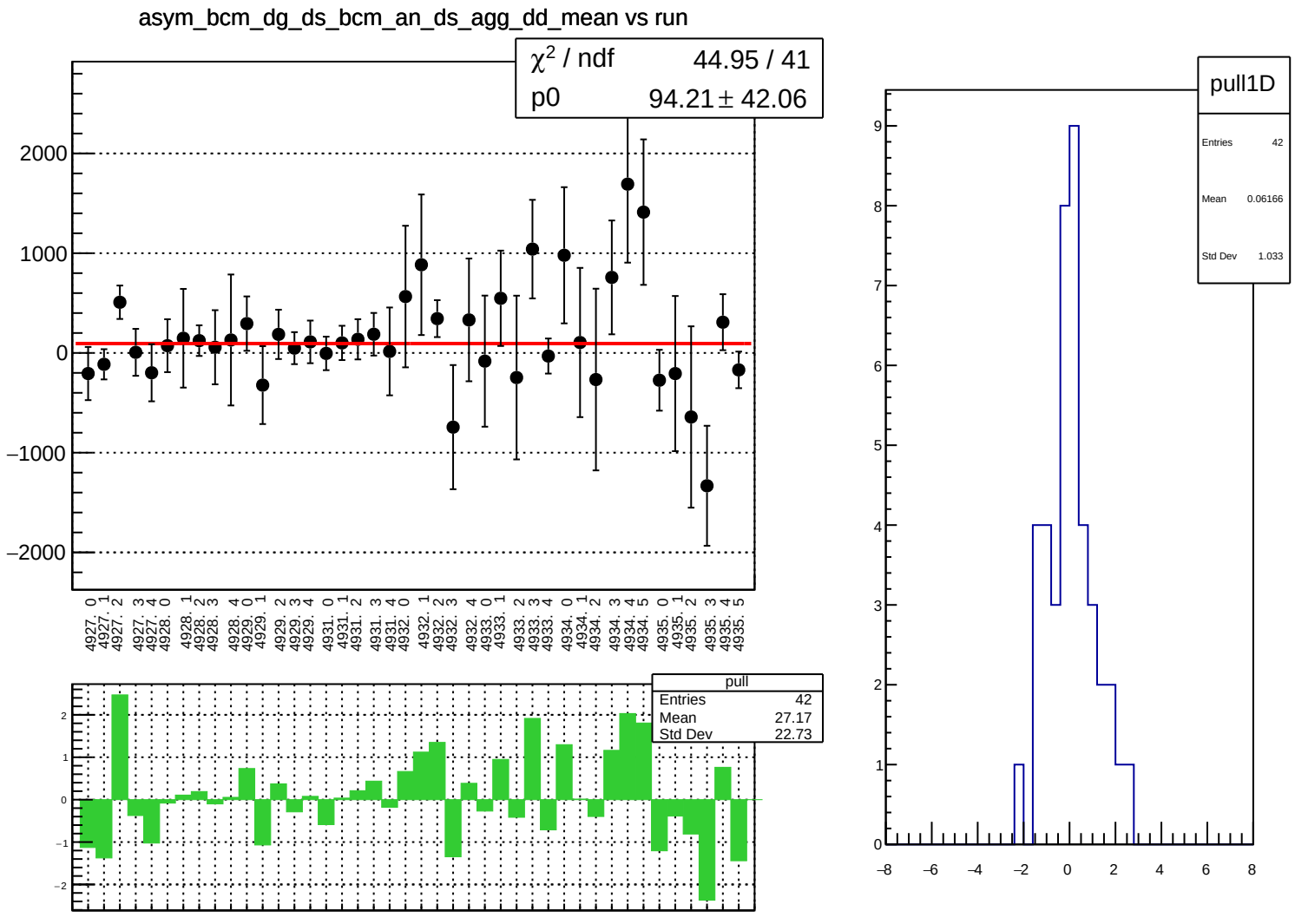

pull1D
Entries 42
Mean 0.1323
Std Dev 1.032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

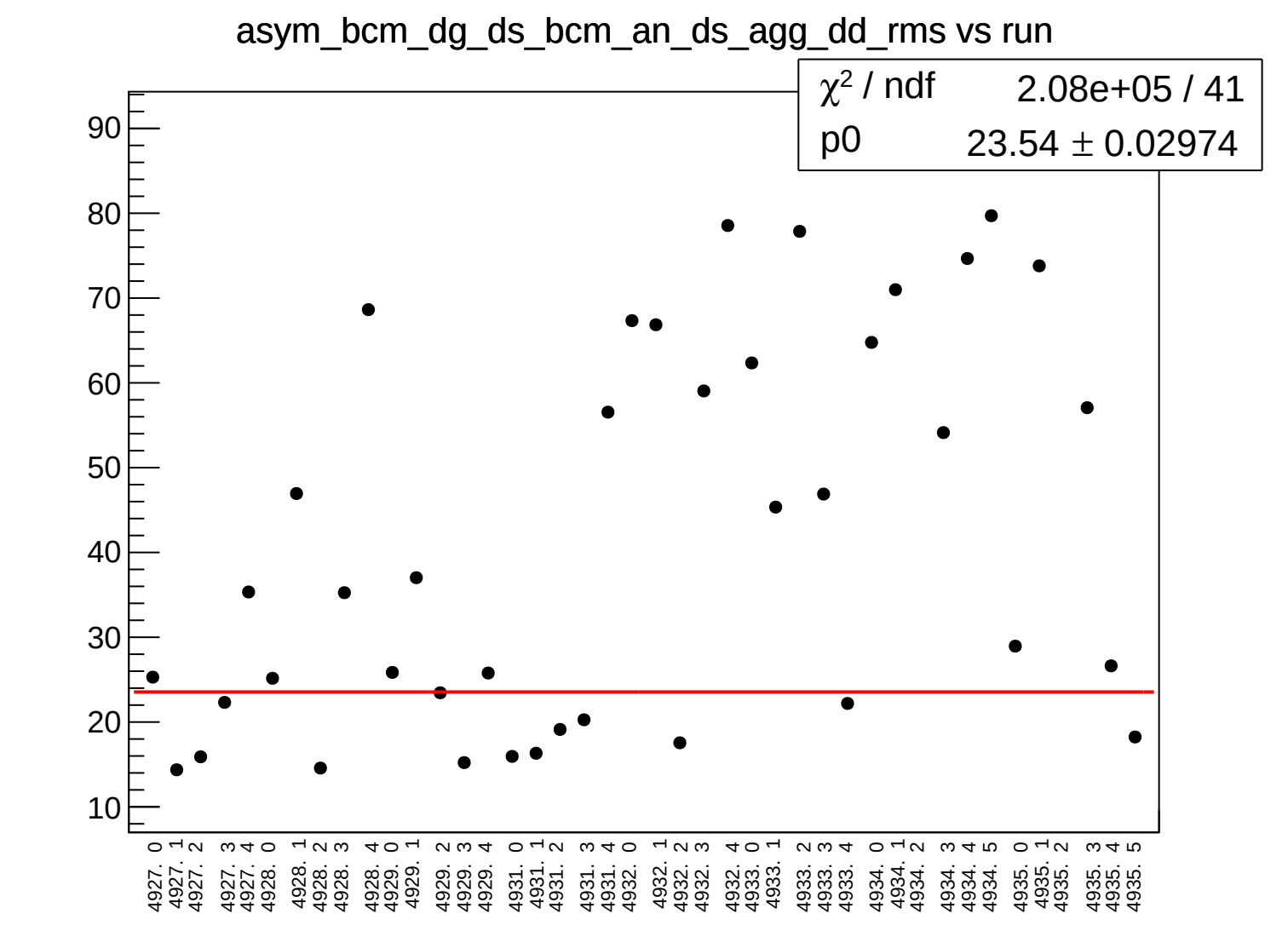

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.429e+05 / 41
p0 31.62 ± 0.03803
90
80
70
60
50
40
30
20
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

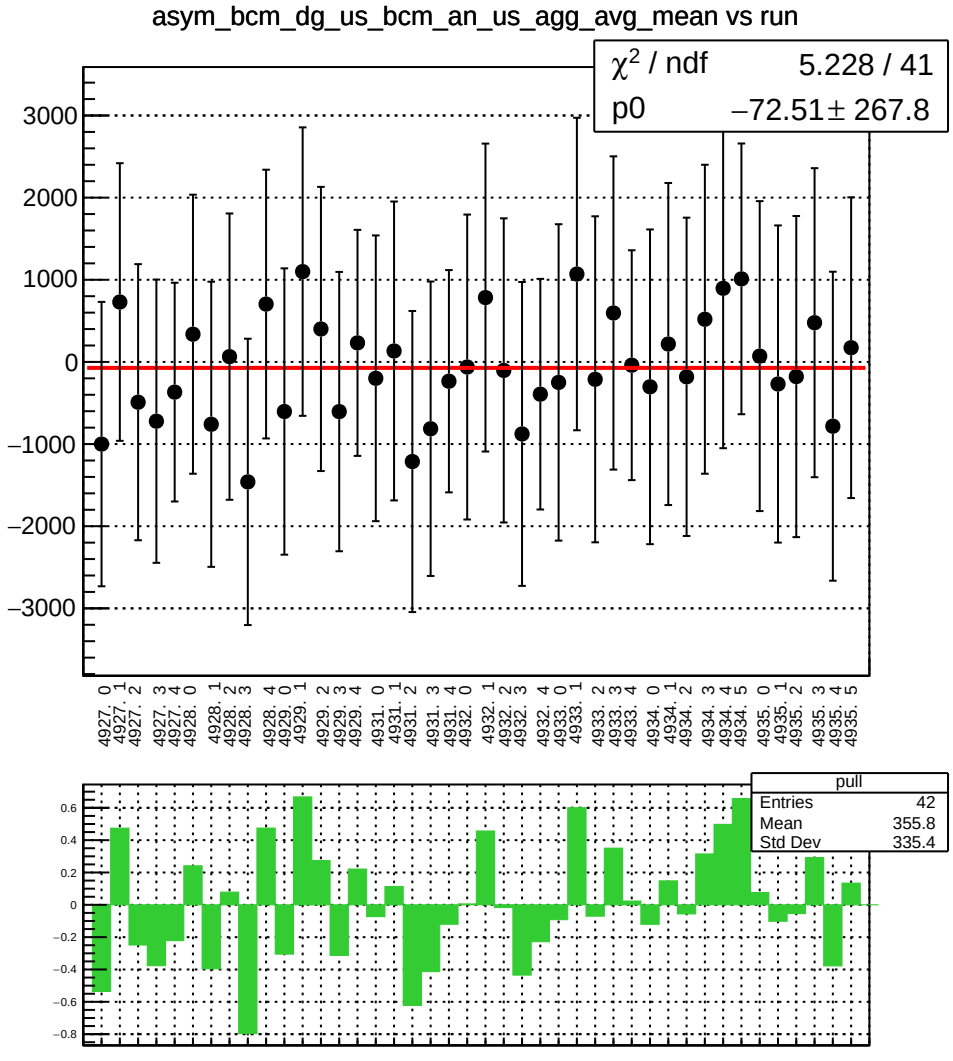

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 5.684 / 41
p0 −225.5 ± 269.9
pull
Entries 42
Mean 29.13
Std Dev 34.36

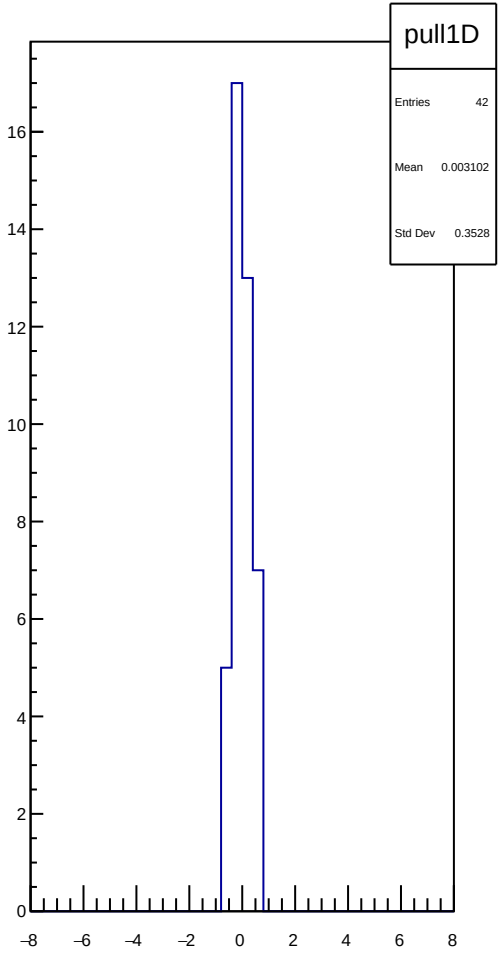

pull1D
Entries 42
Mean −0.006055
Std Dev 0.3678

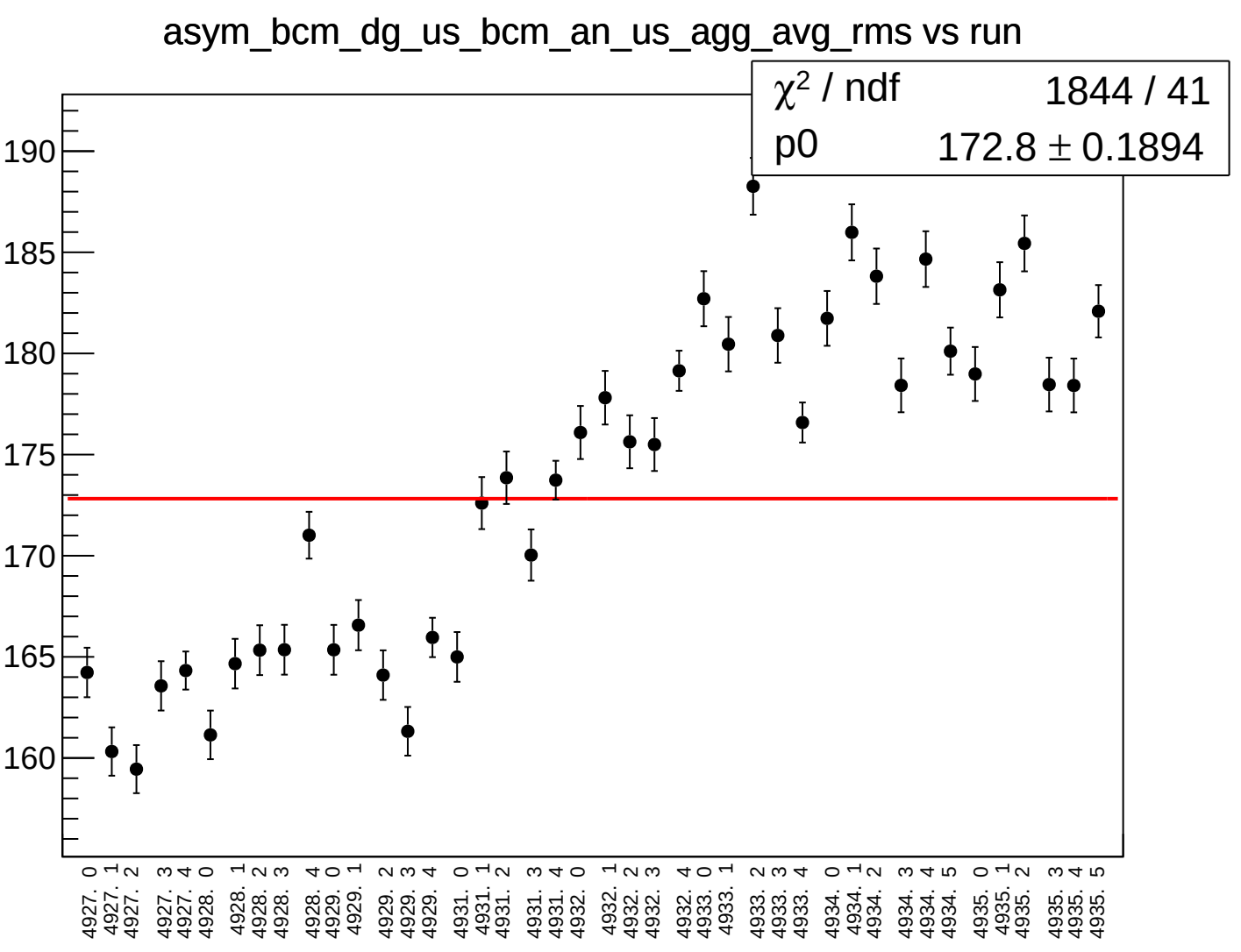

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3641 / 41
p0 173.9 ± 0.1908
200
190
180
170
160
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

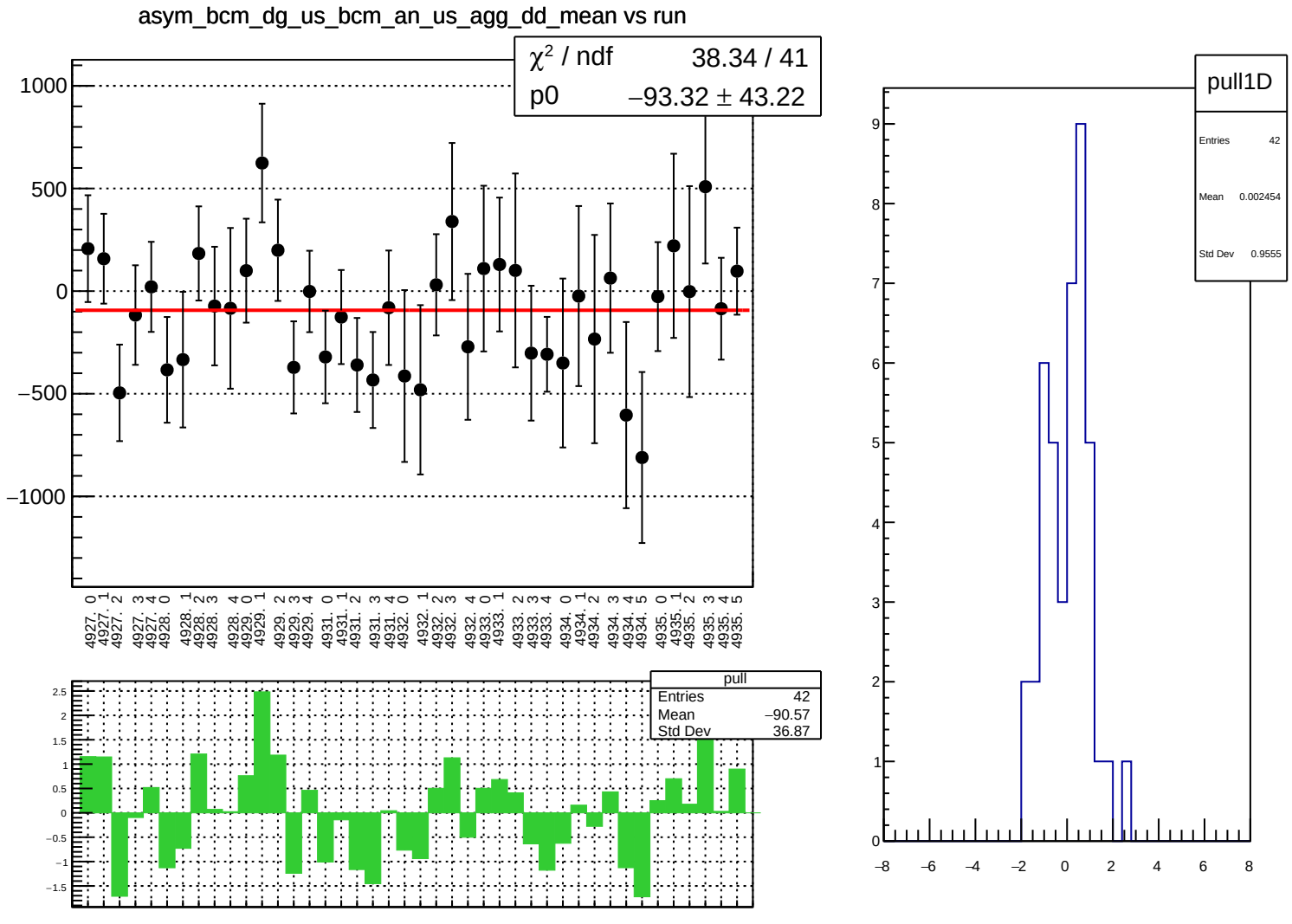

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 44.95 / 41
p0 94.21 ± 42.06
2000
1000
0
−1000
−2000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 27.17
Std Dev 22.73
2
1
0
−1
−2
pull1D
Entries 42
Mean 0.06166
Std Dev 1.033
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

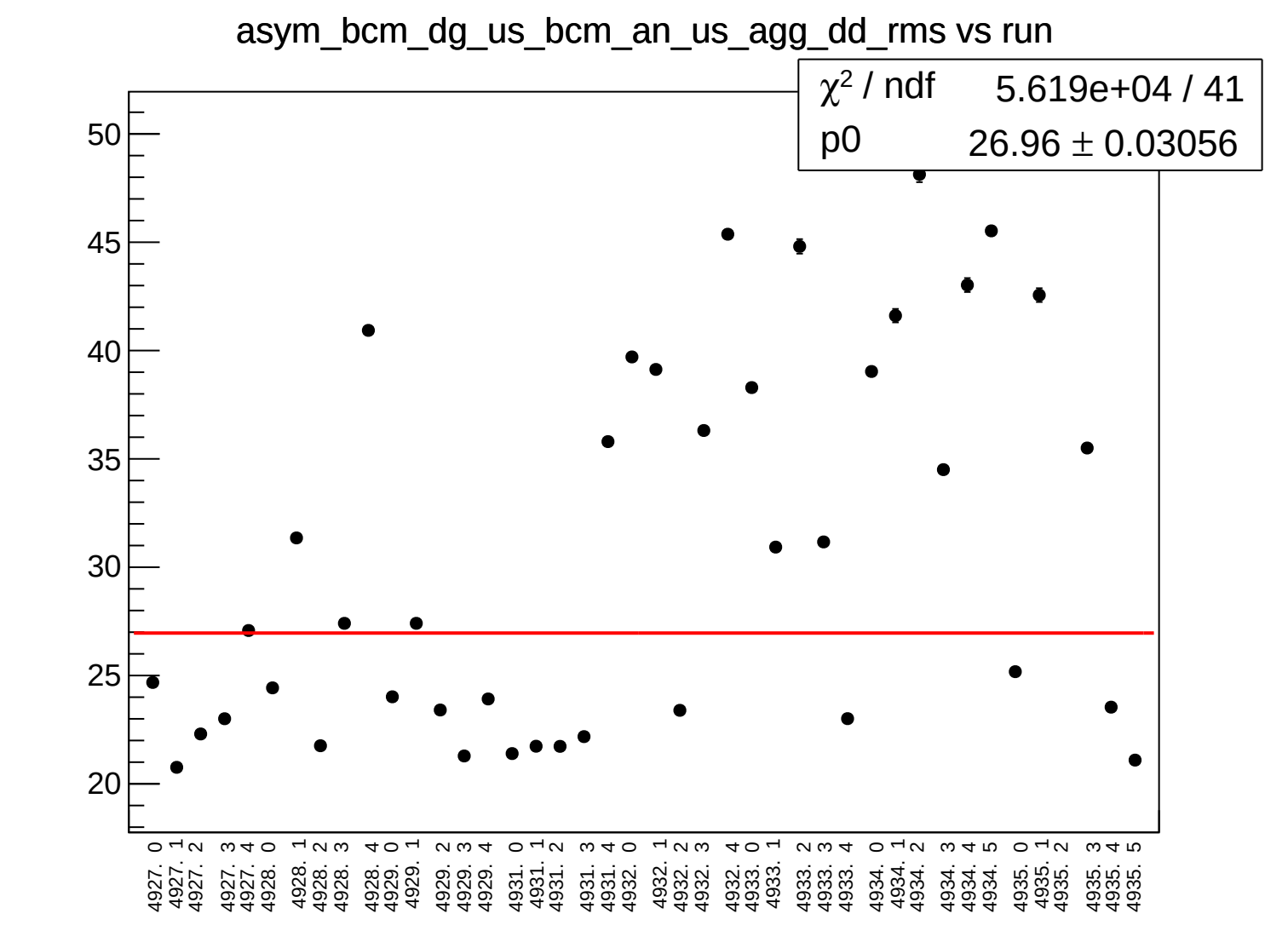

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2.08e+05 / 41
p0 23.54 ± 0.02974
90
80
70
60
50
40
30
20
10
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

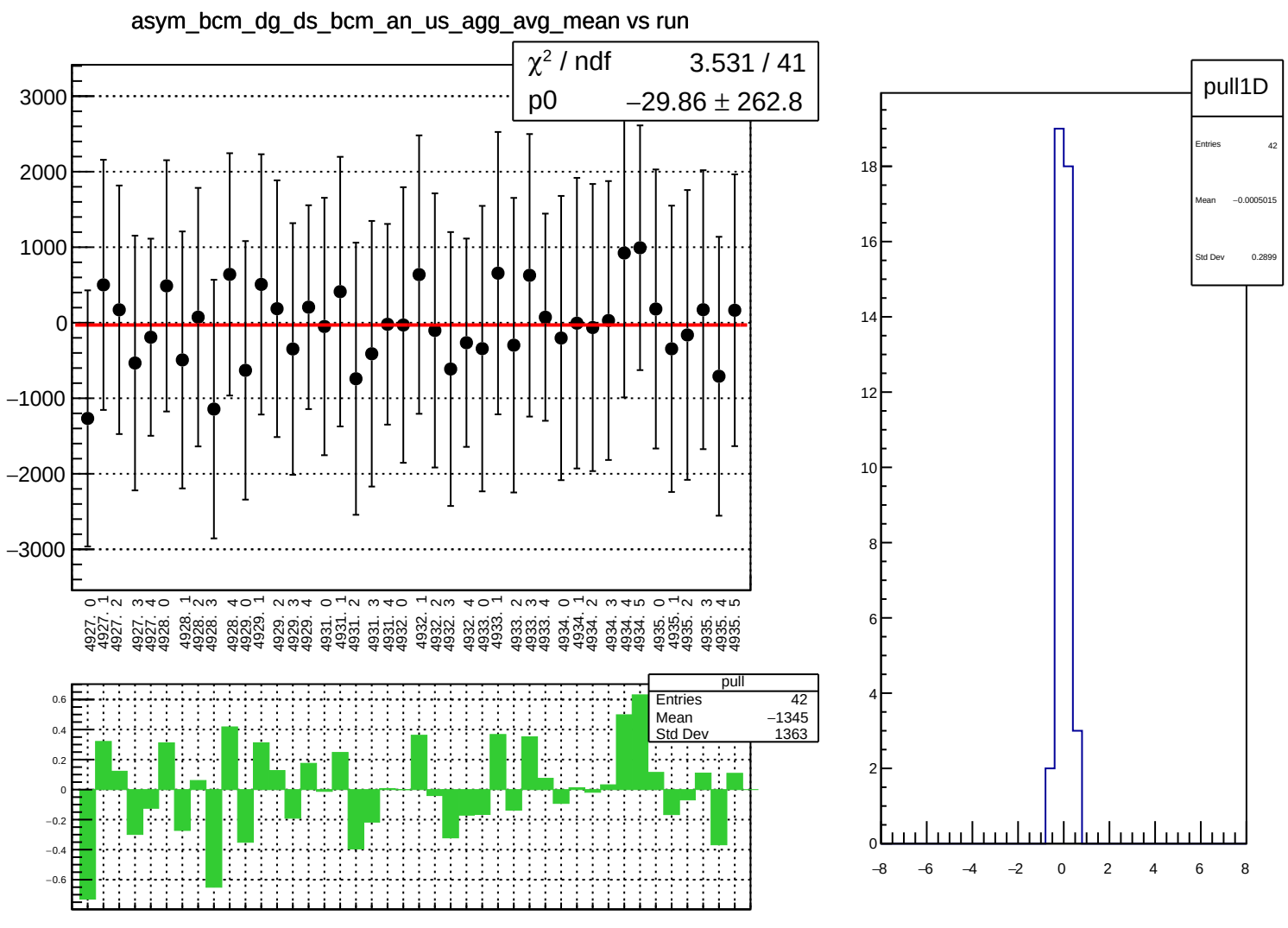

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 5.228 / 41
p0 −72.51± 267.8
pull
Entries 42
Mean 355.8
Std Dev 335.4

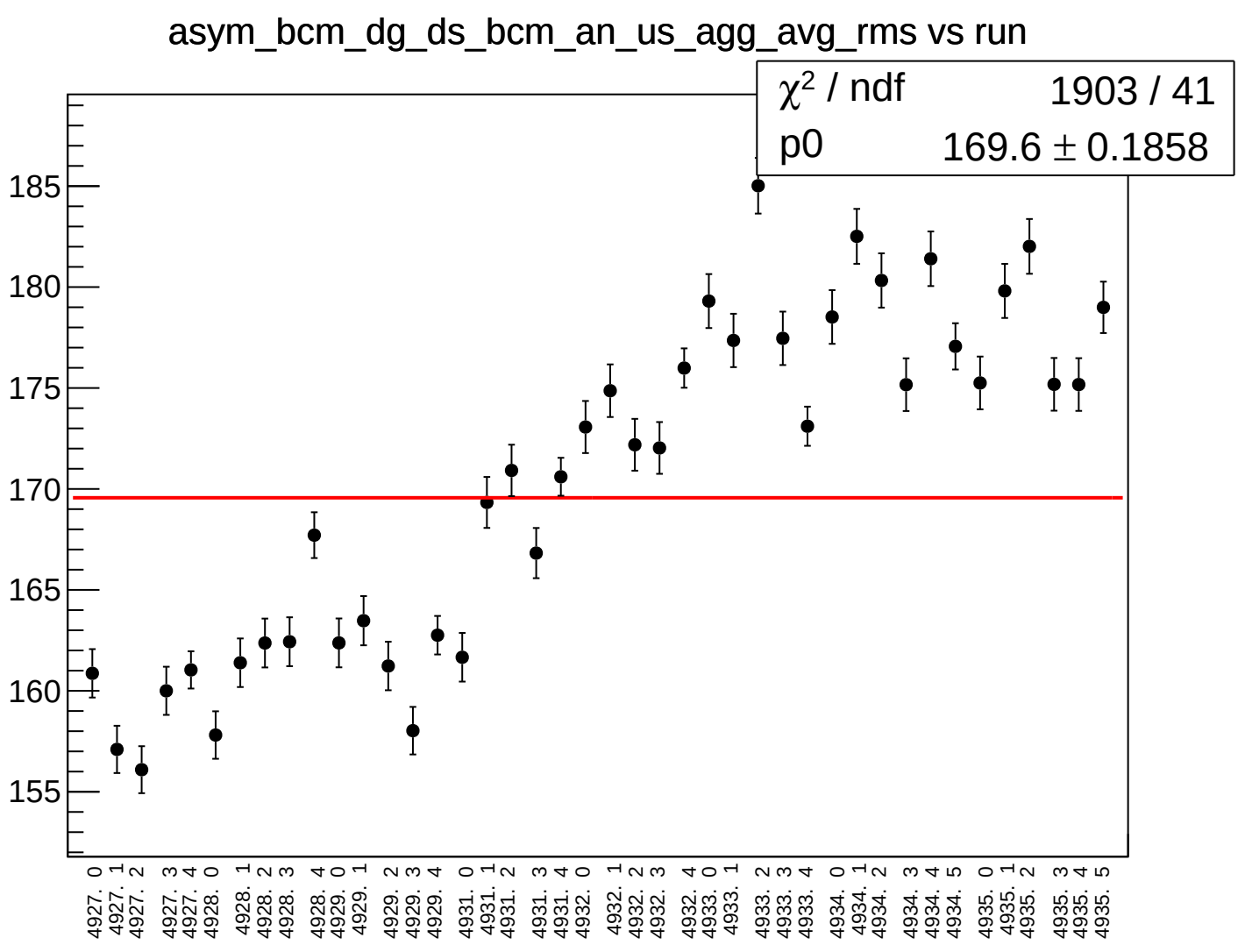

pull1D
Entries 42
Mean 0.003102
Std Dev 0.3528

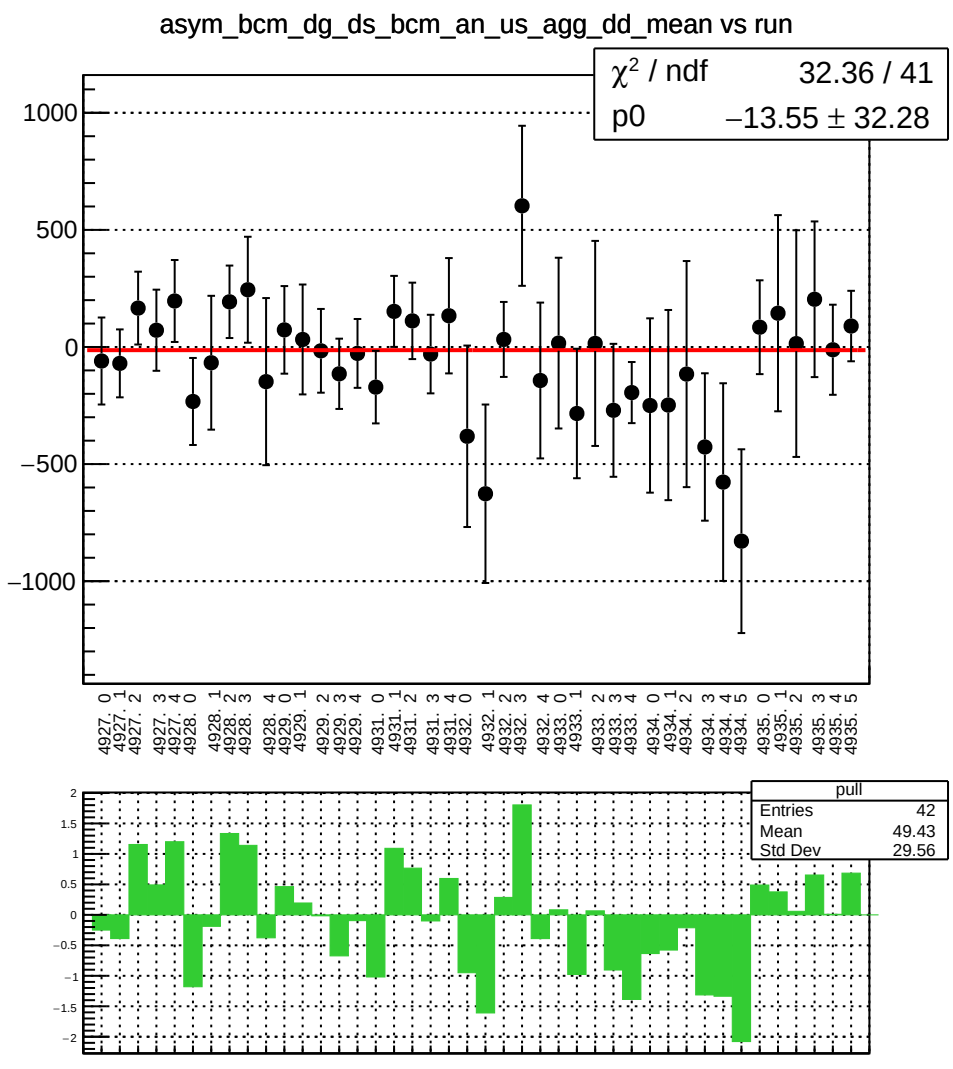

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1844 / 41
p0 172.8 ± 0.1894
190
185
180
175
170
165
160
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

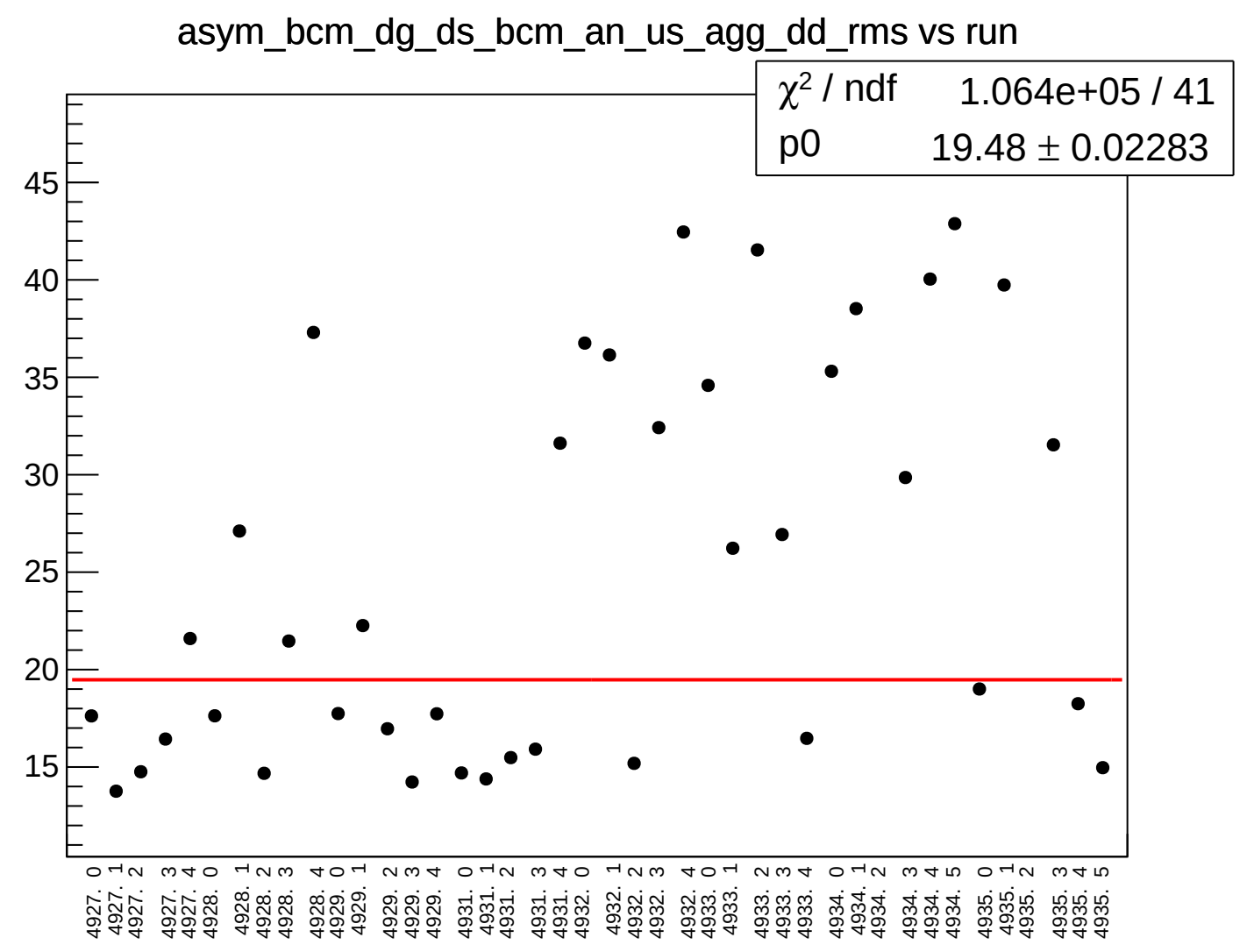

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 38.34 / 41
p0 −93.32 ± 43.22
1000
500
0
−500
−1000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −90.57
Std Dev 36.87
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean 0.002454
Std Dev 0.9555
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

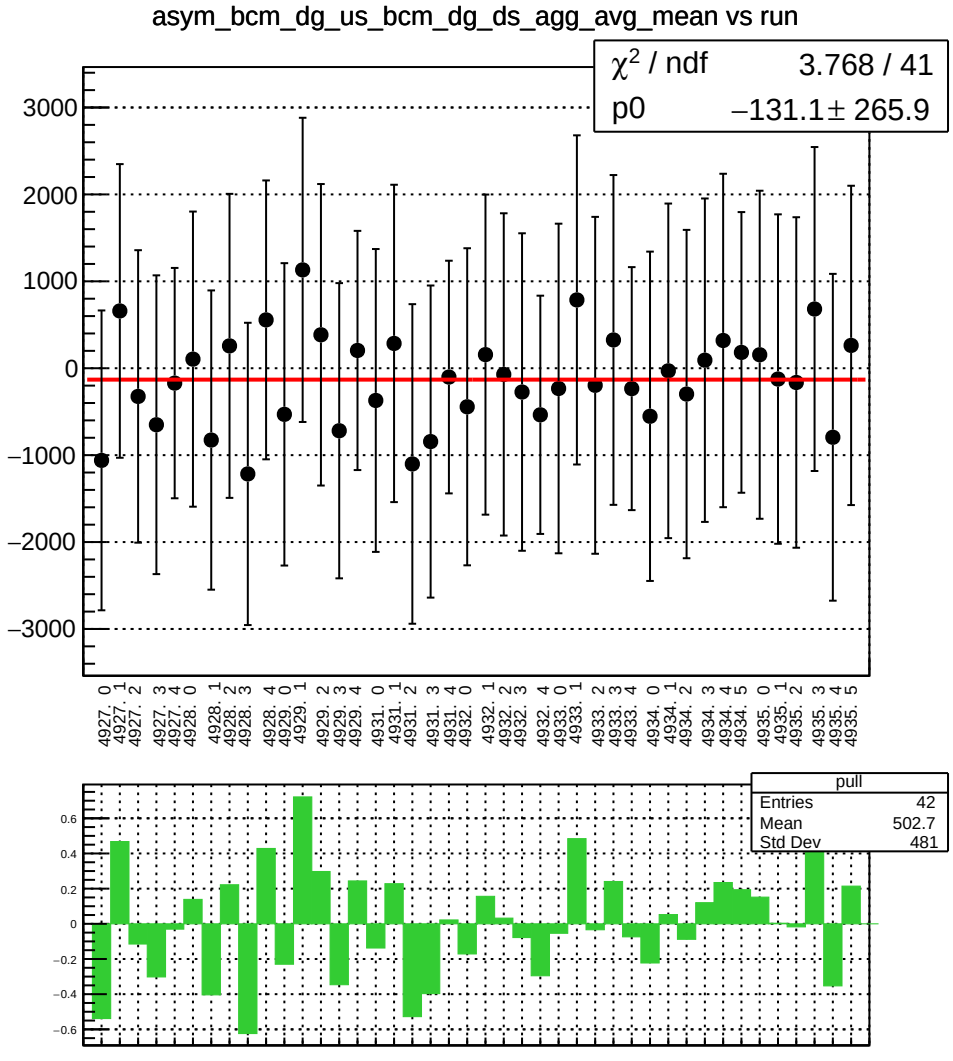

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 5.619e+04 / 41
p0 26.96 ± 0.03056
50
45
40
35
30
25
20
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

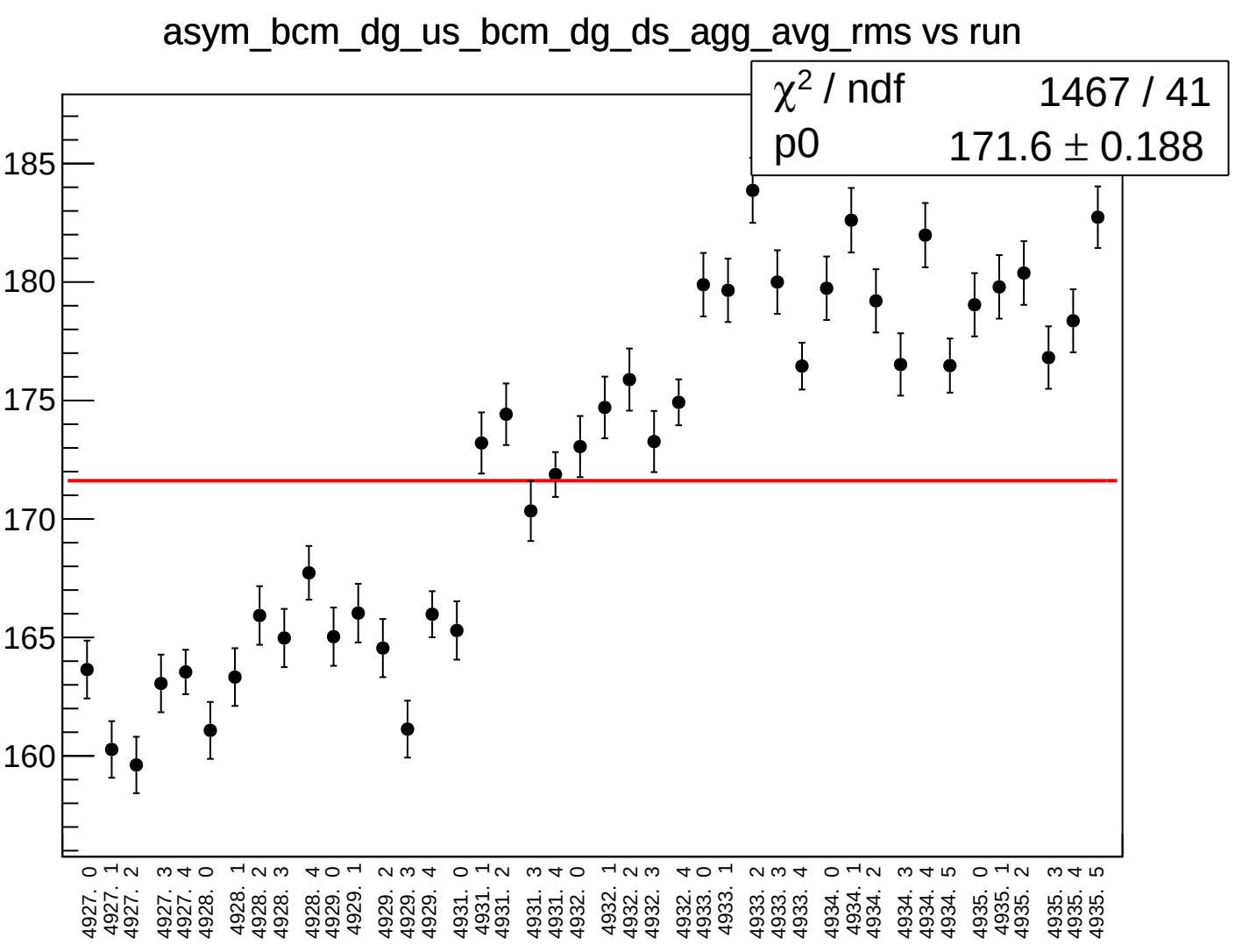

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 3.531 / 41
p0 −29.86 ± 262.8
3000
2000
1000
0
−1000
−2000
−3000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935.
pull
Entries 42
Mean −1345
Std Dev 1363
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 42
Mean −0.0005015
Std Dev 0.2899
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

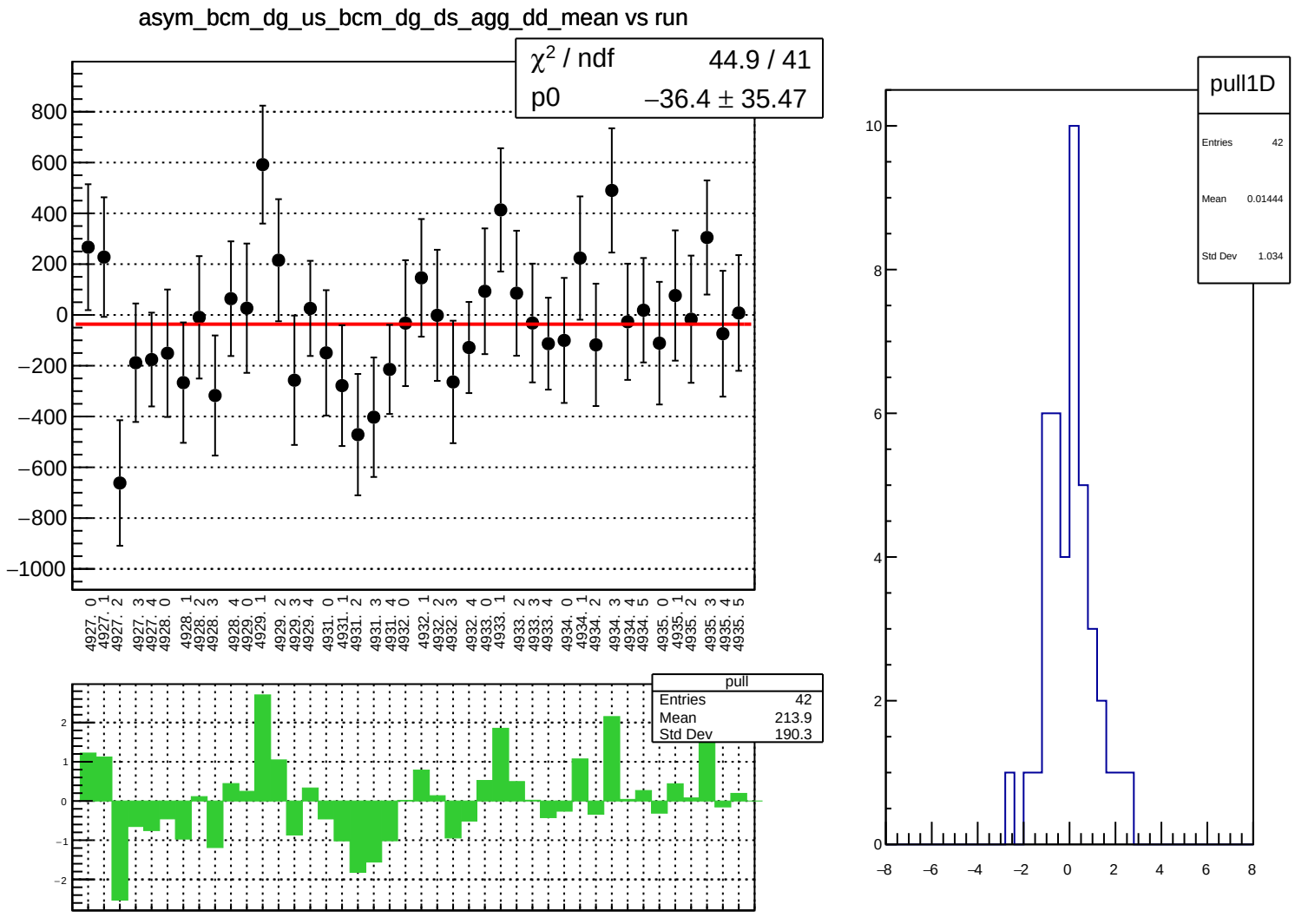

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1903 / 41
p0 169.6 ± 0.1858
185
180
175
170
165
160
155
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

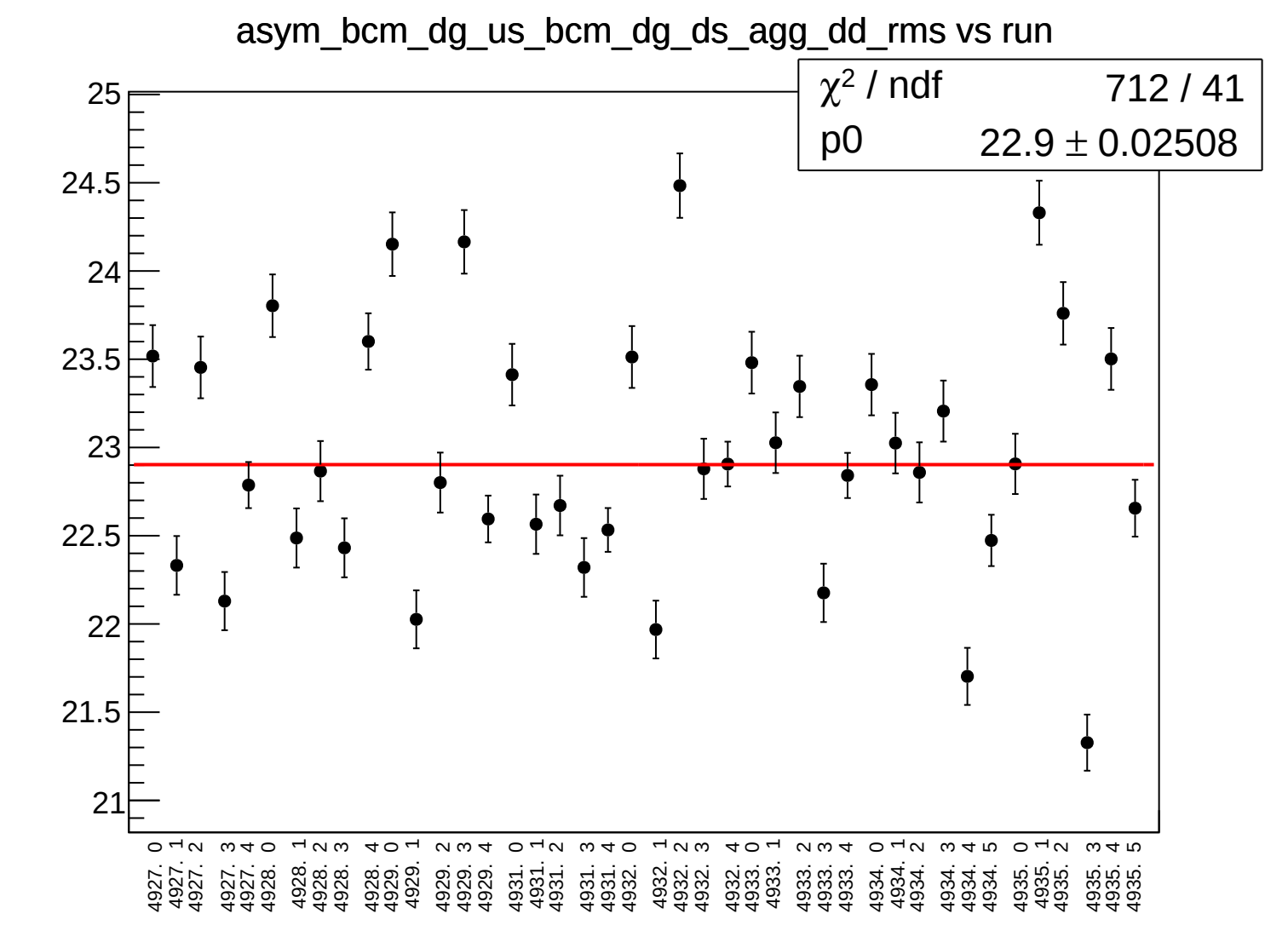

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 32.36 / 41
p0 −13.55 ± 32.28
1000
500
0
−500
−1000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 49.43
Std Dev 29.56
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 42
Mean −0.08833
Std Dev 0.8733
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

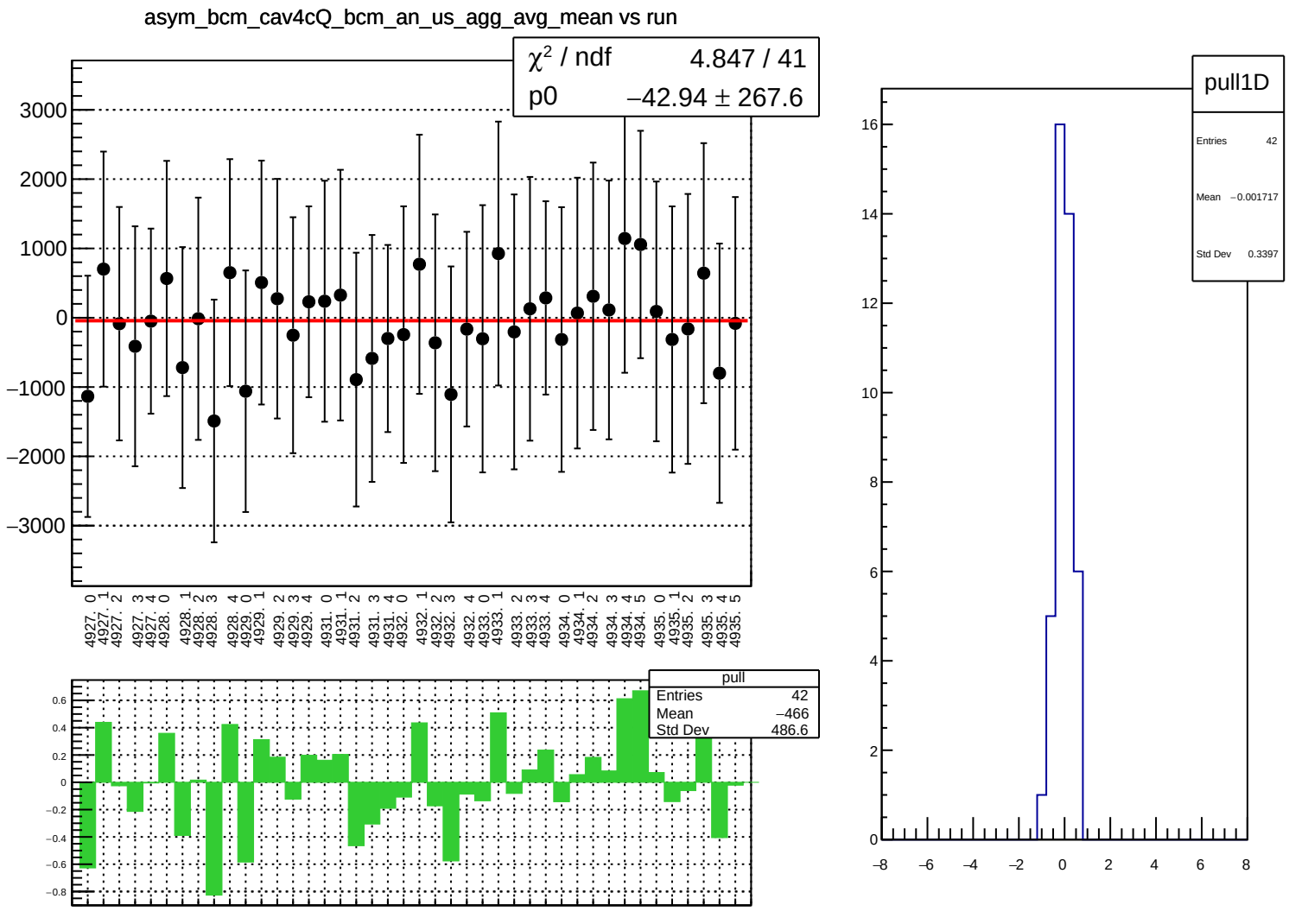

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1.064e+05 / 41
p0 19.48 ± 0.02283
45
40
35
30
25
20
15
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

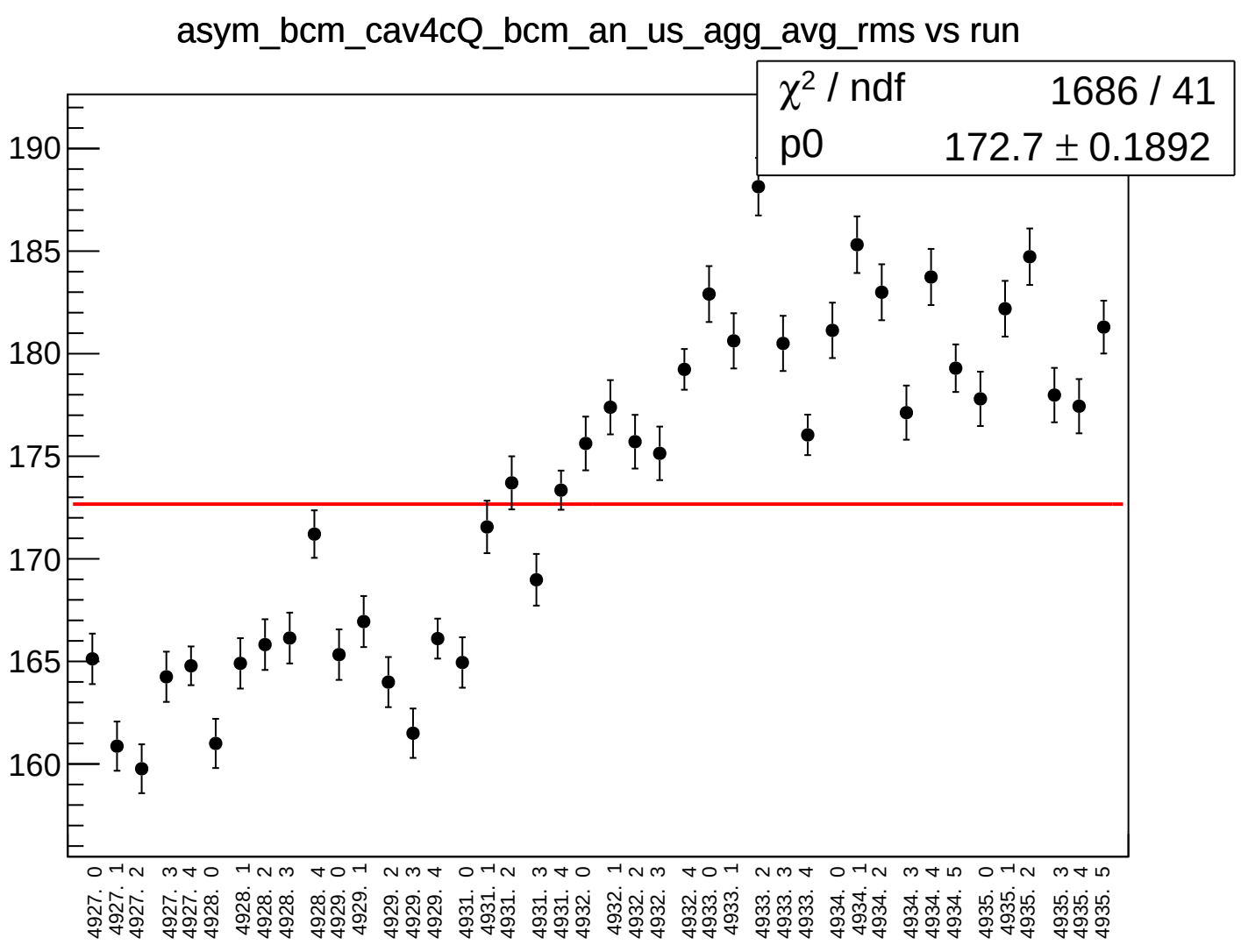

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 3.768 / 41
p0 −131.1 ± 265.9
3000
2000
1000
0
−1000
−2000
−3000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 502.7
Std Dev 481
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 42
Mean 0.001232
Std Dev 0.2995
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

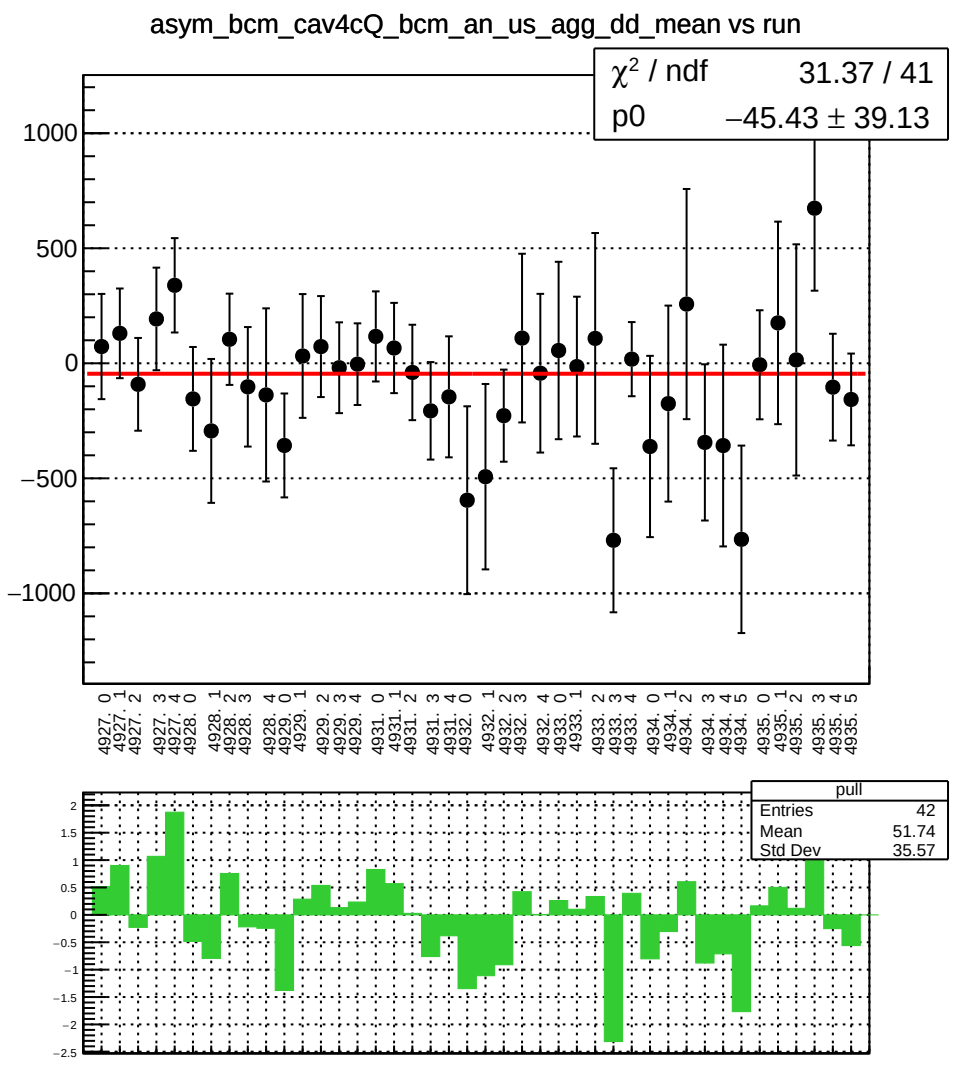

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1467 / 41
p0 171.6 ± 0.188
185
180
175
170
165
160
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

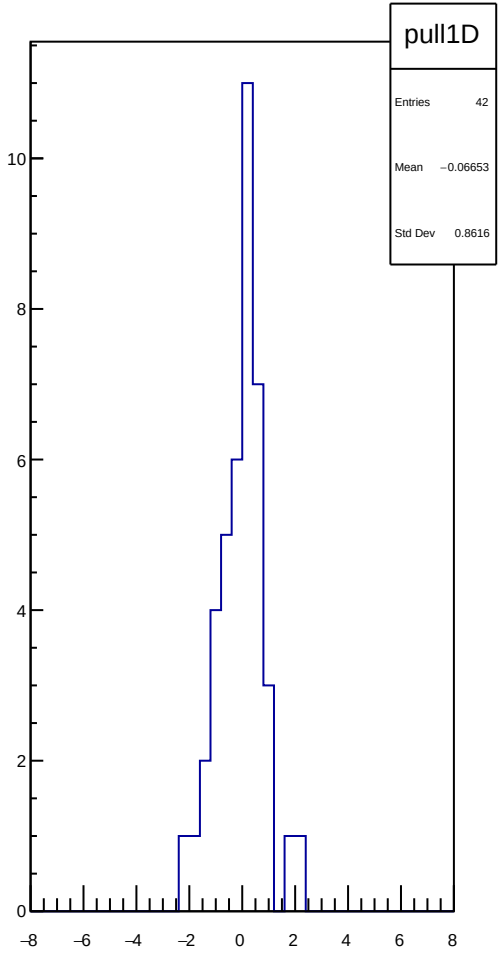

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 44.9 / 41
p0 −36.4 ± 35.47
pull
Entries 42
Mean 213.9
Std Dev 190.3
pull1D
Entries 42
Mean 0.01444
Std Dev 1.034

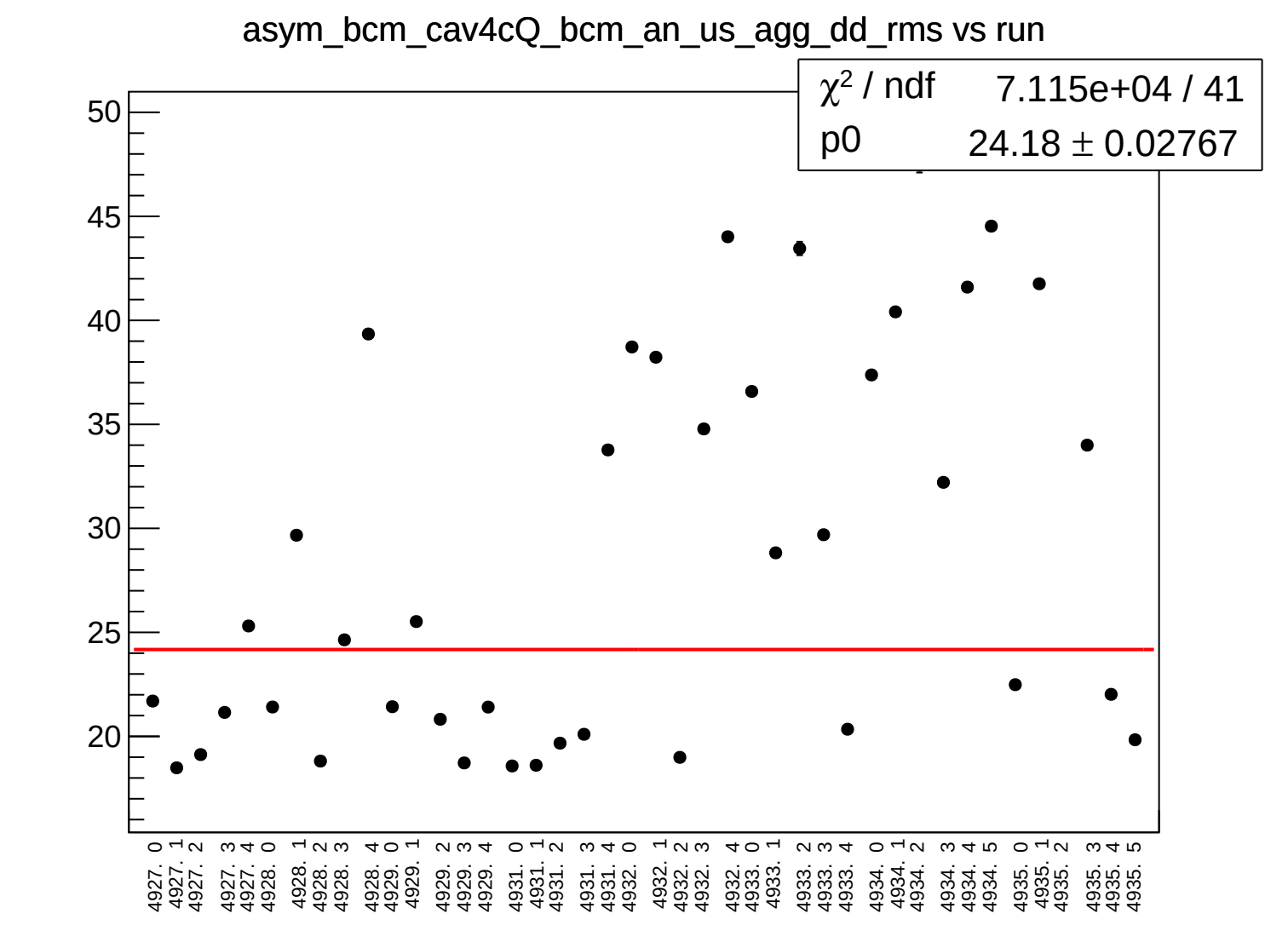

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 712 / 41
p0 22.9 ± 0.02508
25
24.5
24
23.5
23
22.5
22
21.5
21
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

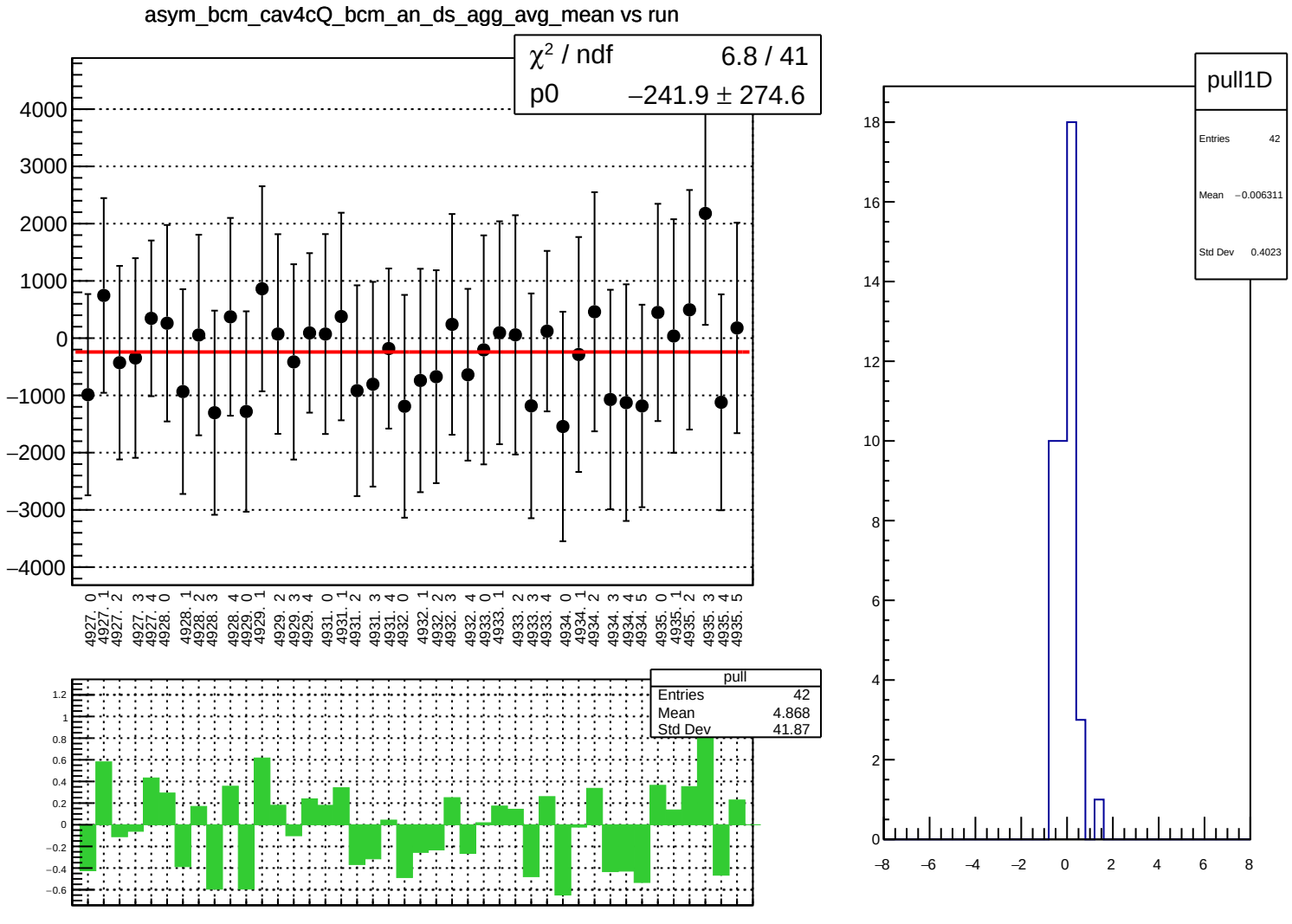

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 4.847 / 41
p0 −42.94 ± 267.6
3000
2000
1000
0
−1000
−2000
−3000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −466
Std Dev 486.6
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 42
Mean −0.001717
Std Dev 0.3397
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

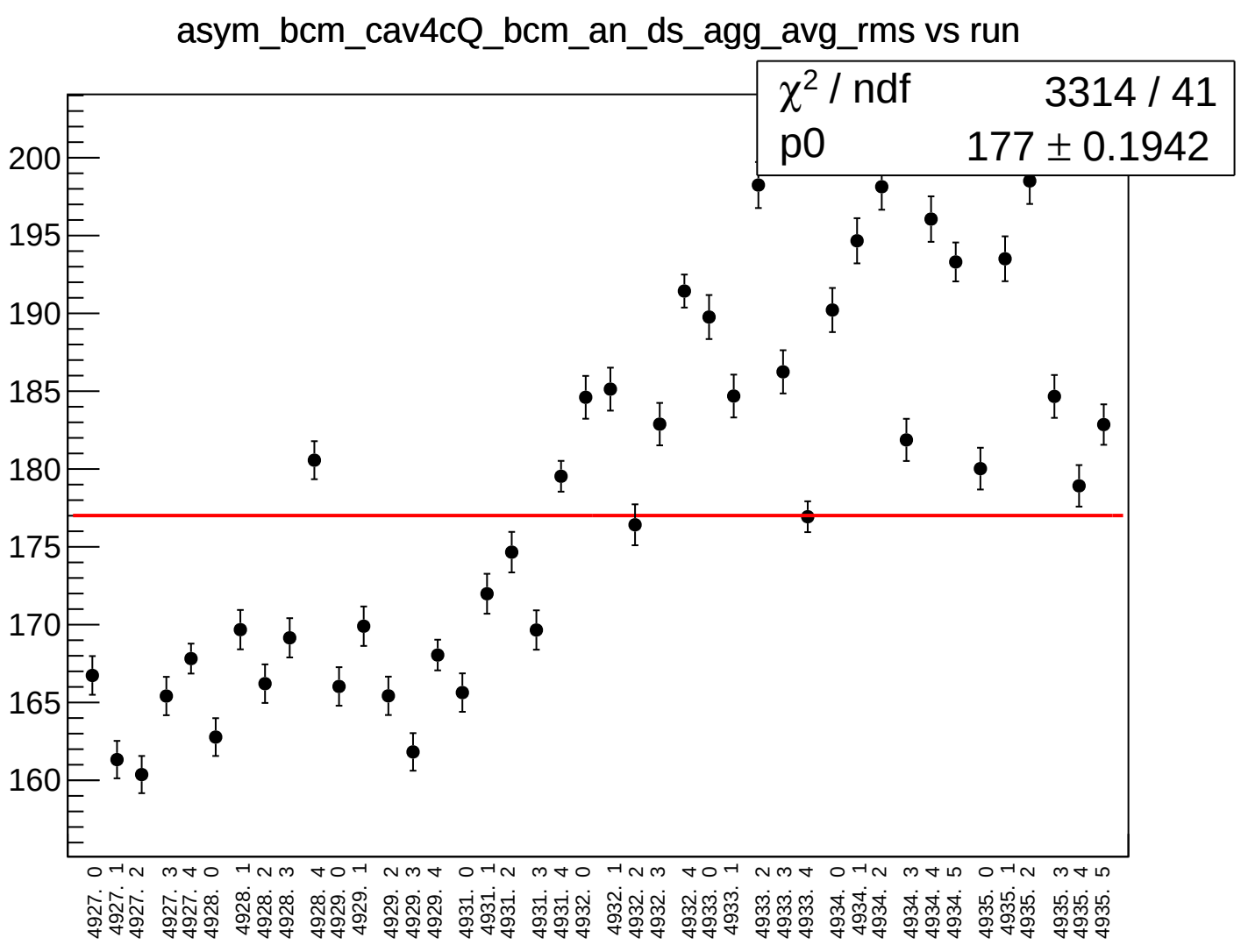

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1686 / 41
p0 172.7 ± 0.1892
190
185
180
175
170
165
160
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

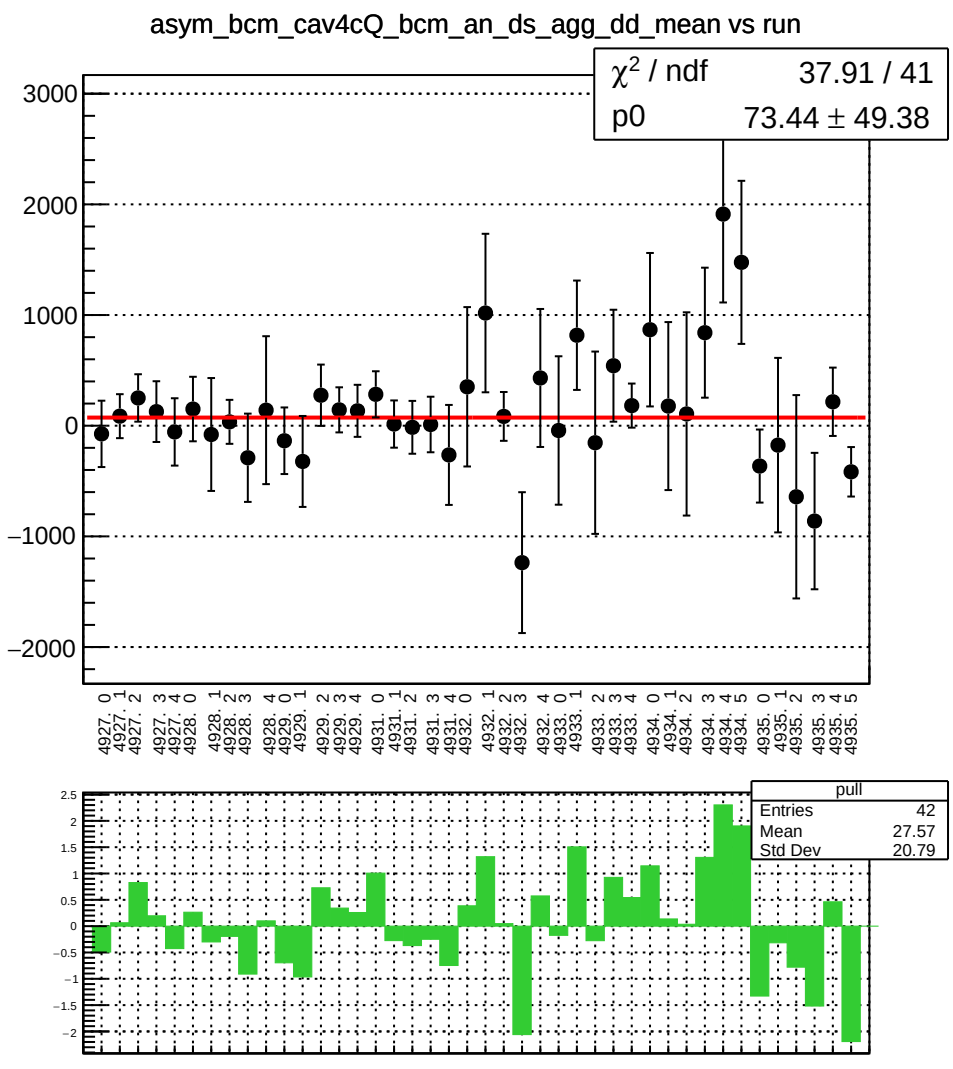

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 31.37 / 41
p0 −45.43 ± 39.13
1000
500
0
−500
−1000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 51.74
Std Dev 35.57
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

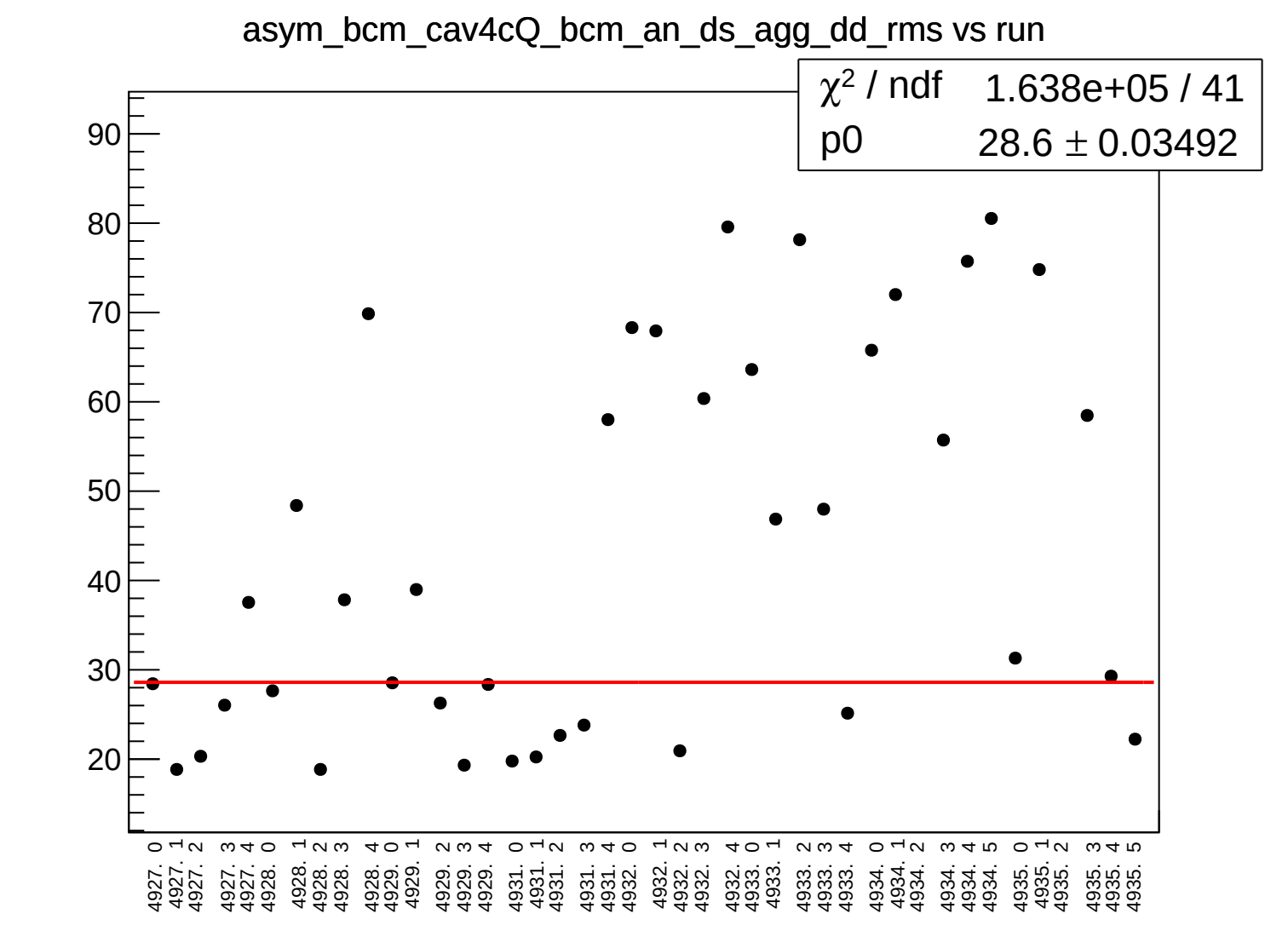

pull1D
Entries 42
Mean −0.06653
Std Dev 0.8616
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

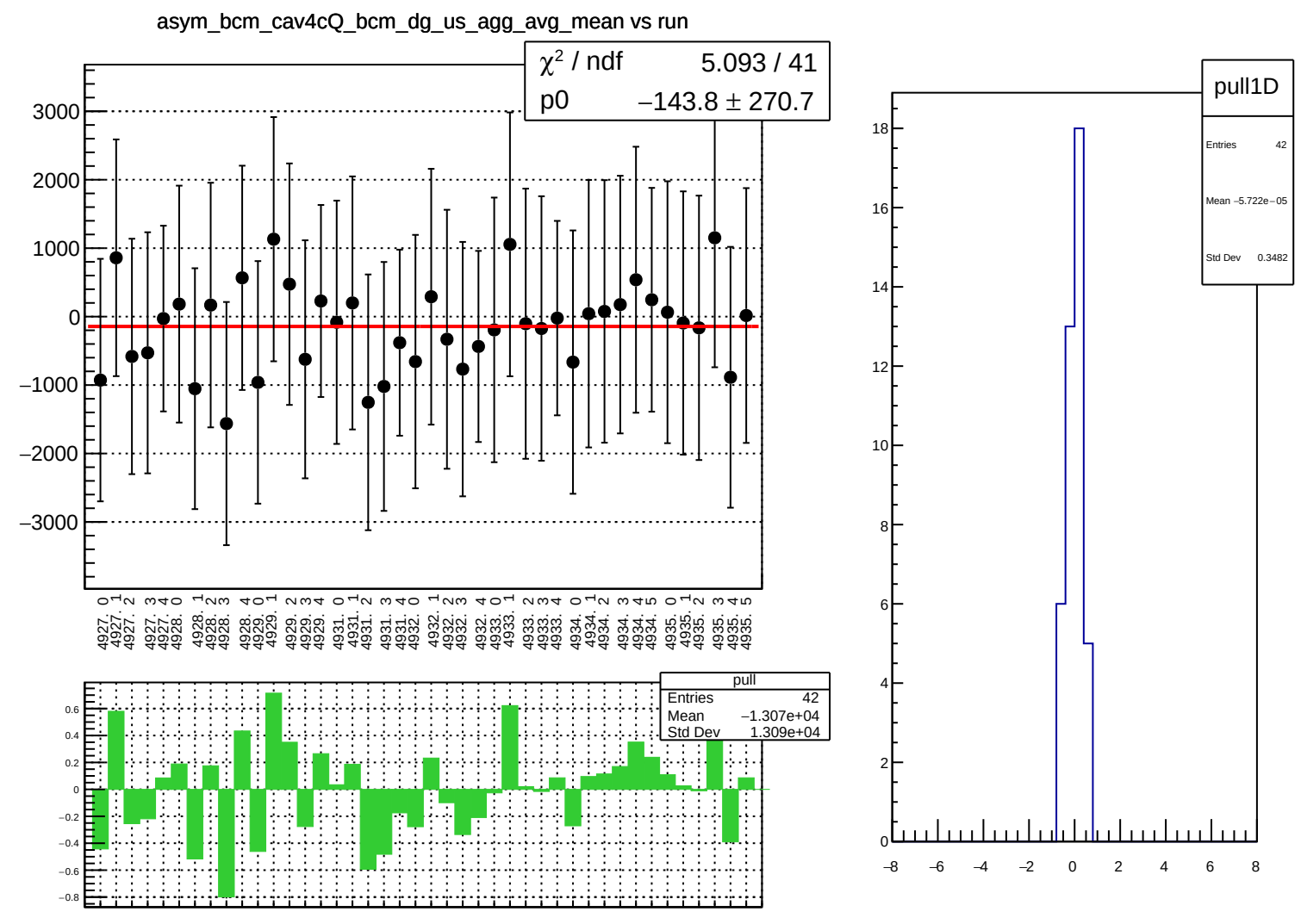

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 7.115e+04 / 41
p0 24.18 ± 0.02767
50
45
40
35
30
25
20
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

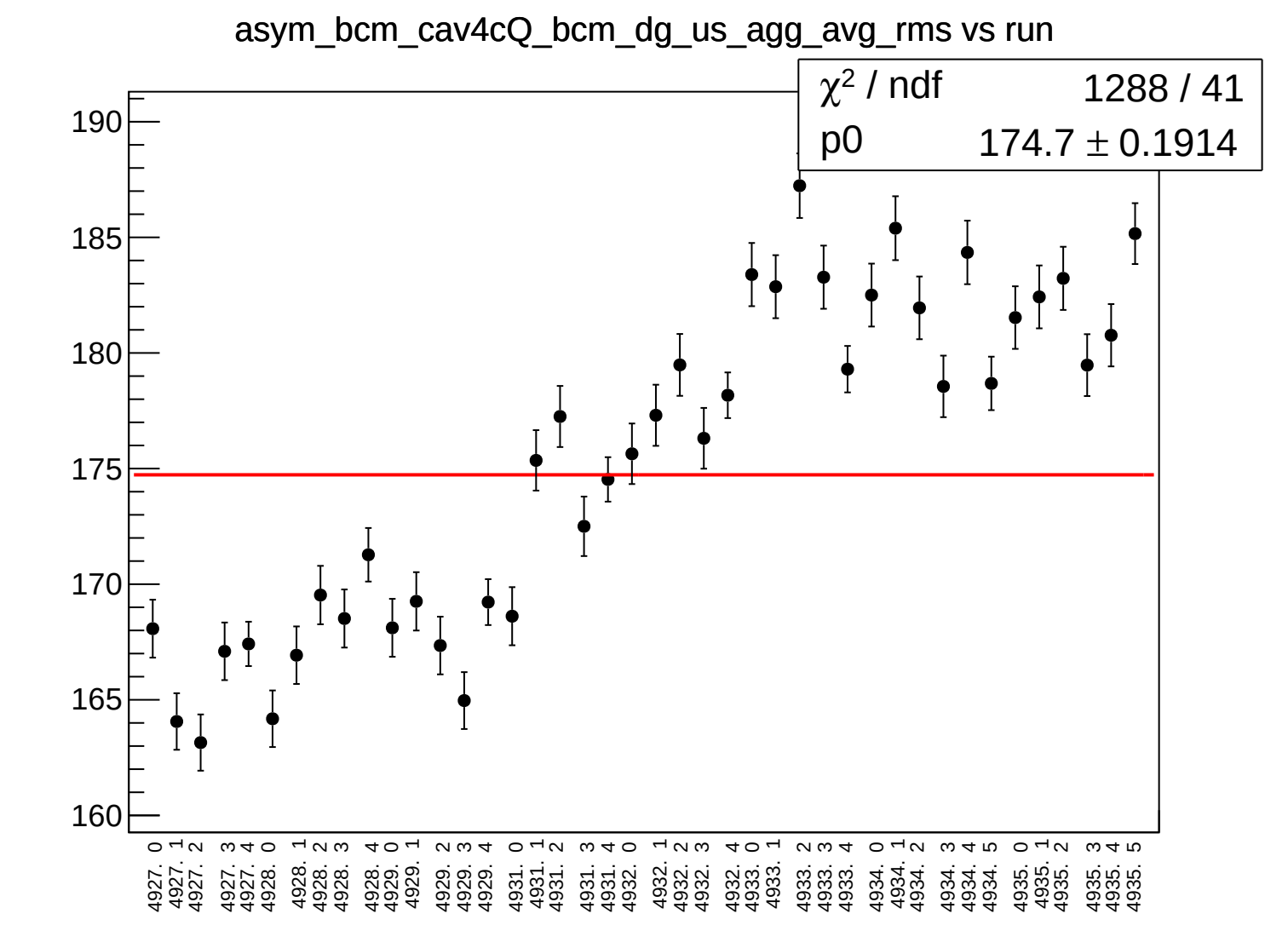

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 6.8 / 41
p0 −241.9 ± 274.6
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 4.868
Std Dev 41.87
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 42
Mean −0.006311
Std Dev 0.4023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

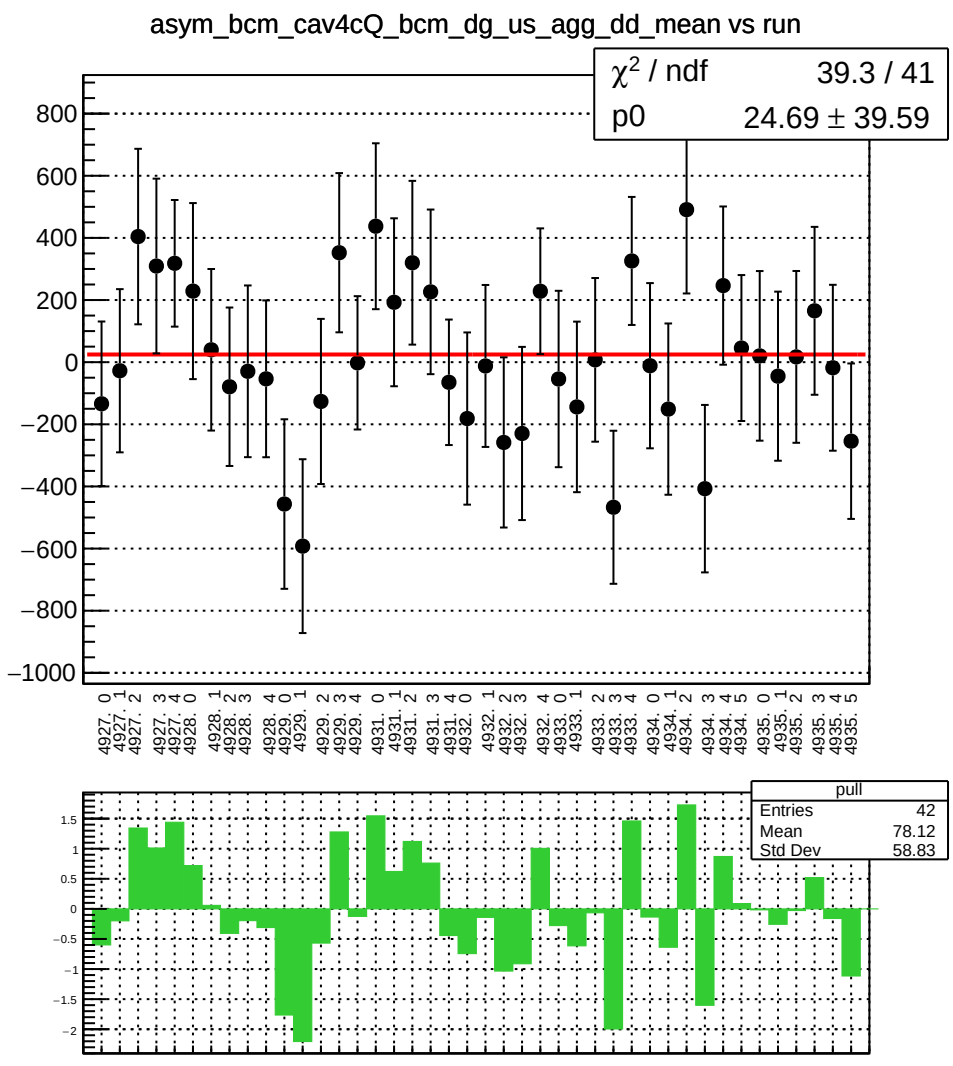

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3314 / 41
p0 177 ± 0.1942
200
195
190
185
180
175
170
165
160
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

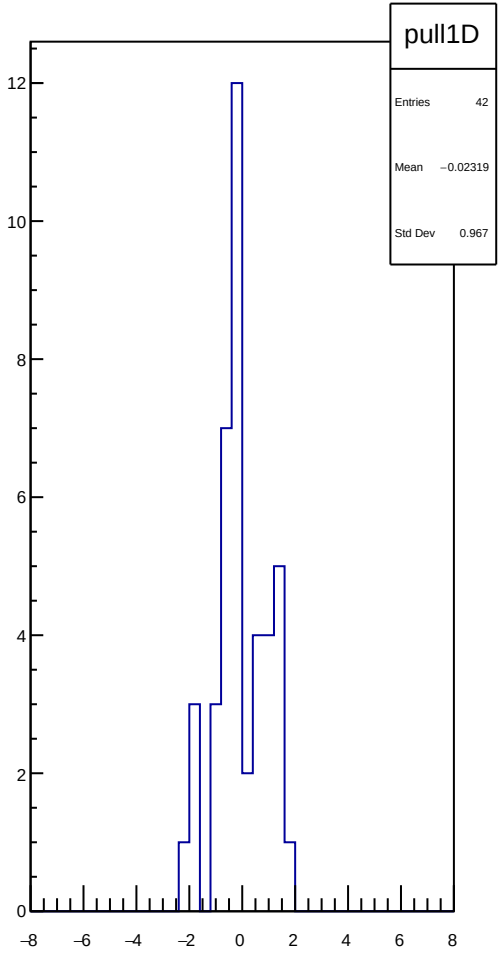

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 37.91 / 41
p0 73.44 ± 49.38
3000
2000
1000
0
−1000
−2000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 27.57
Std Dev 20.79
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 42
Mean 0.05059
Std Dev 0.9487
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

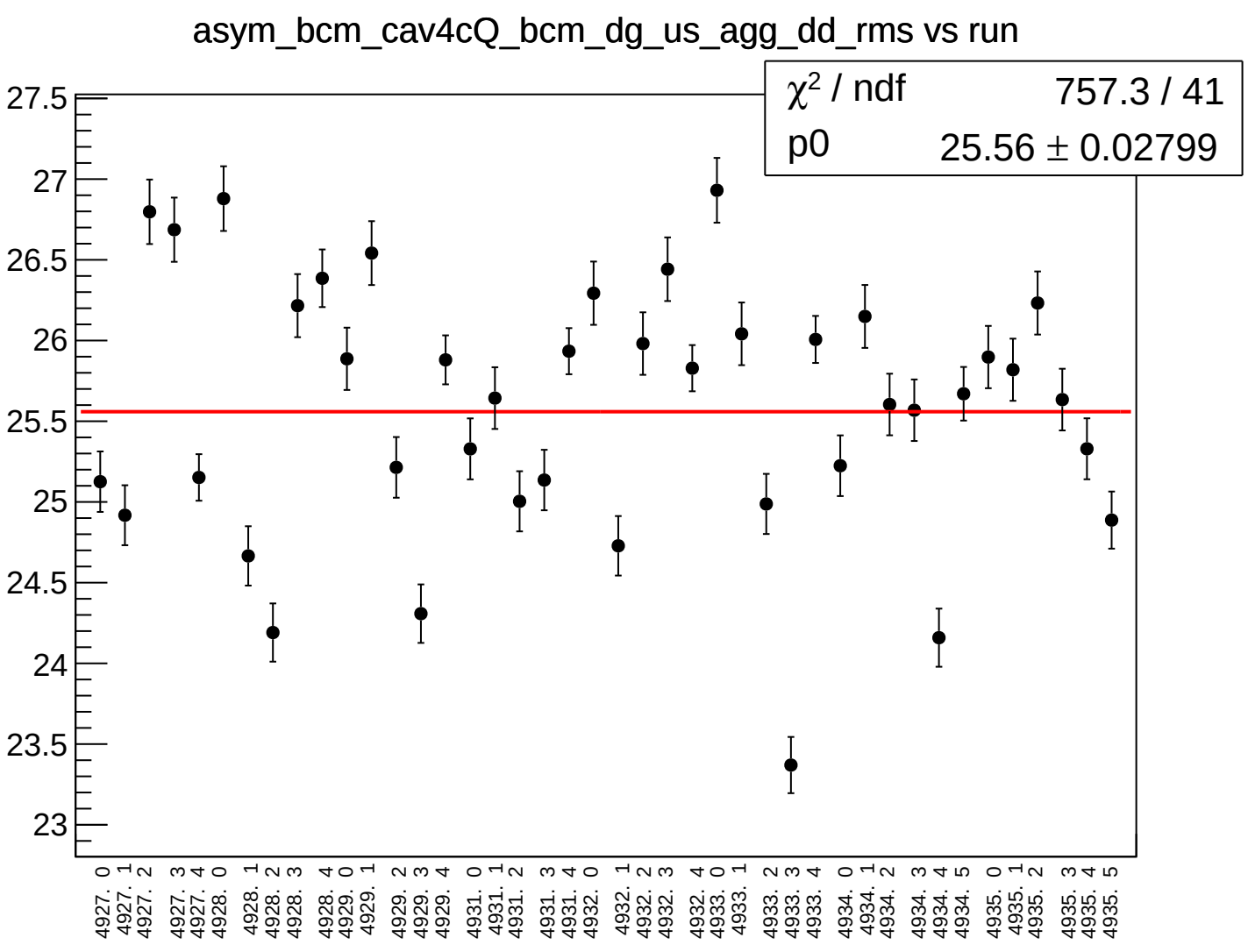

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.638e+05 / 41
p0 28.6 ± 0.03492
90
80
70
60
50
40
30
20
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

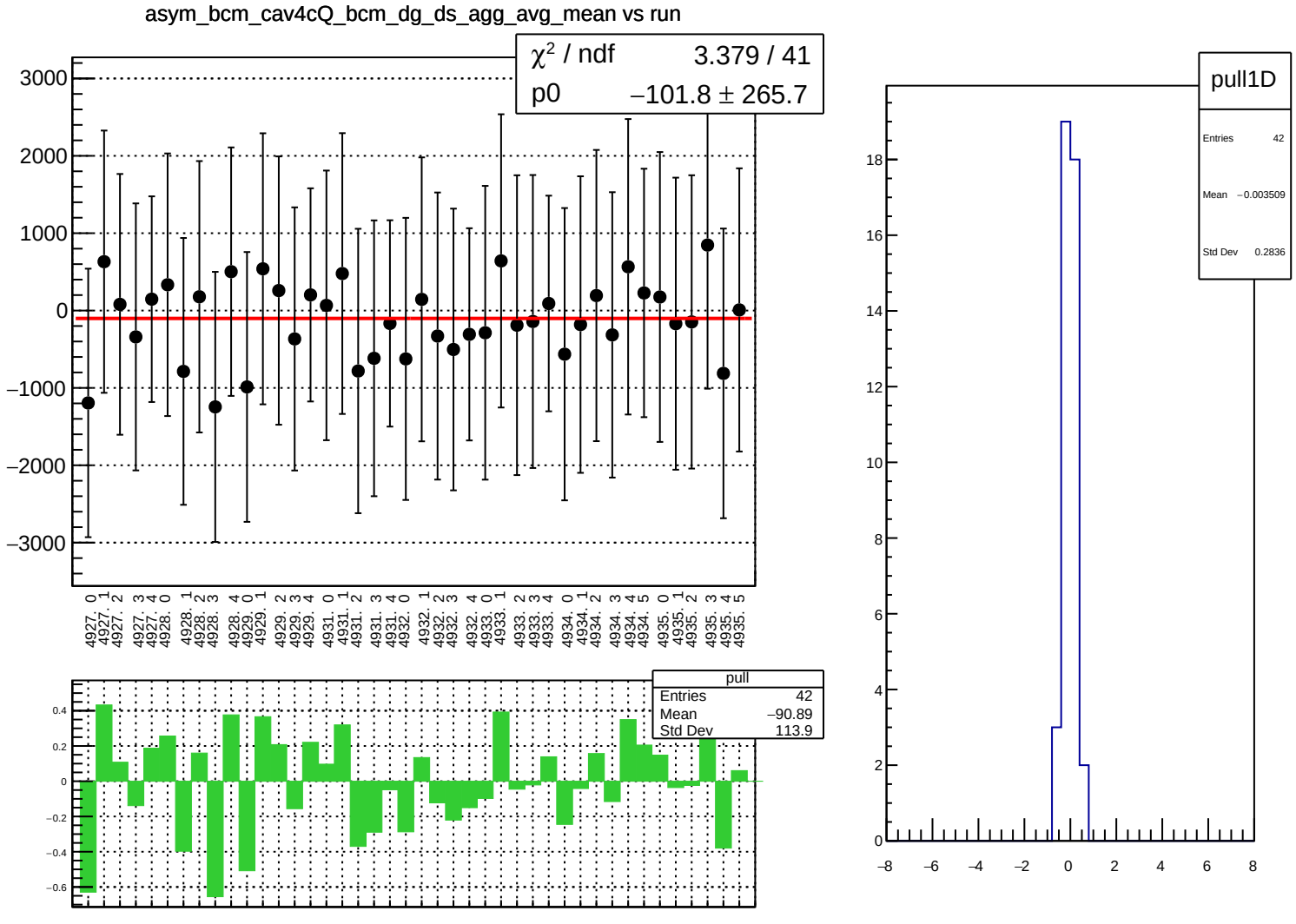

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 5.093 / 41
p0 −143.8 ± 270.7
3000
2000
1000
0
−1000
−2000
−3000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −1.307e+04
Std Dev 1.309e+04
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 42
Mean −5.722e−05
Std Dev 0.3482
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

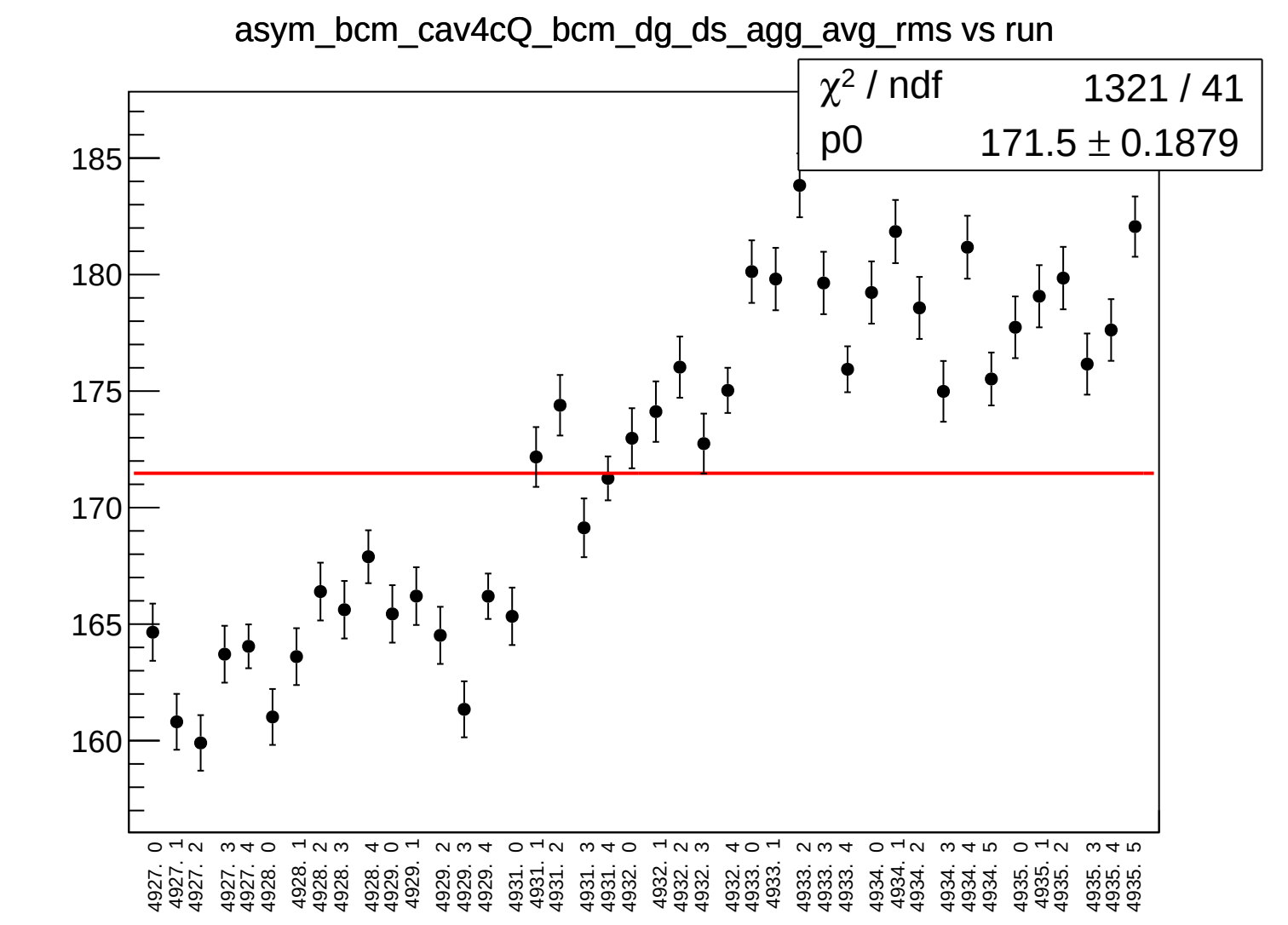

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 1288 / 41
p0 174.7 ± 0.1914
190
185
180
175
170
165
160
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

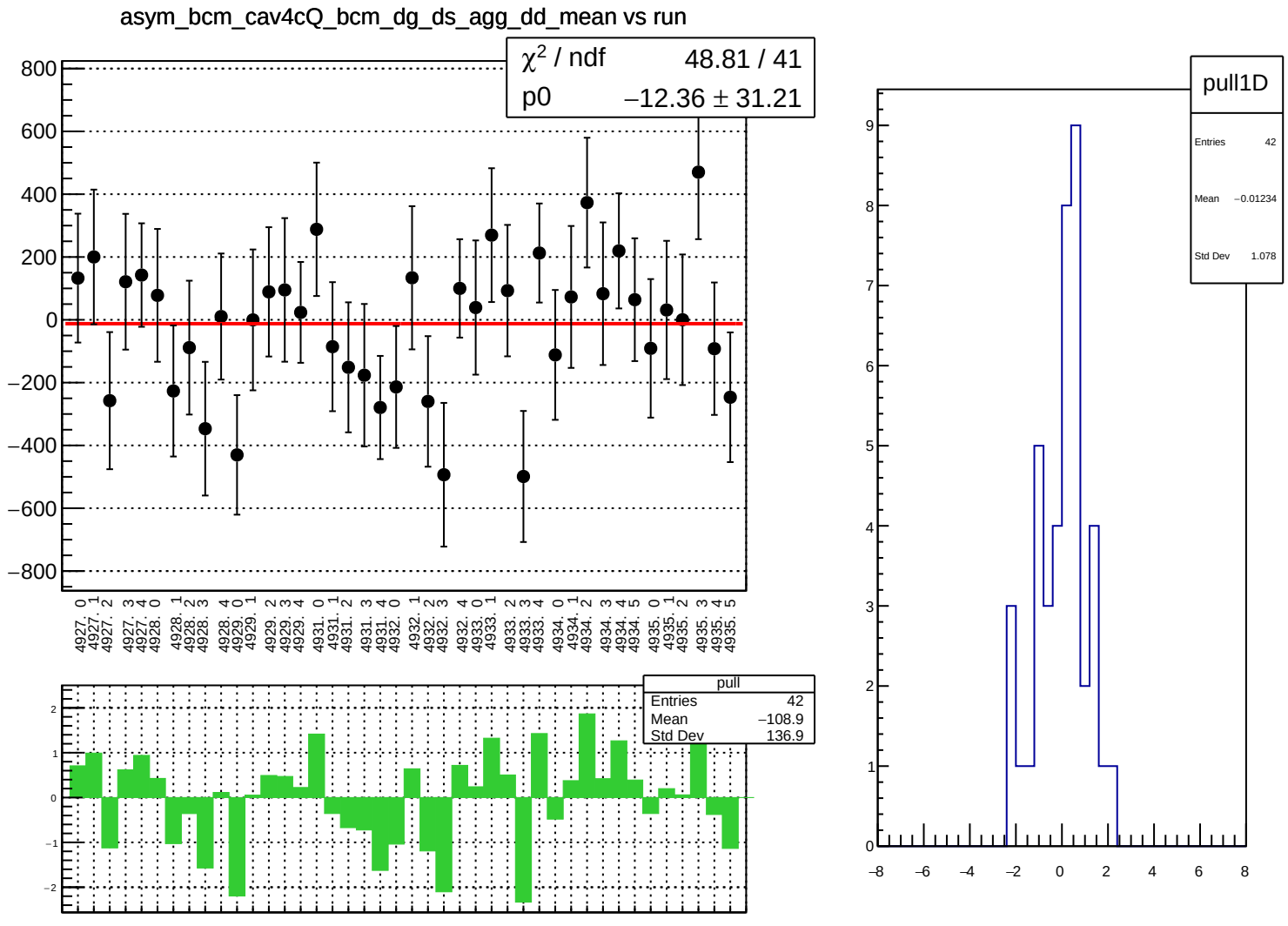

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 39.3 / 41
p0 24.69 ± 39.59
pull
Entries 42
Mean 78.12
Std Dev 58.83

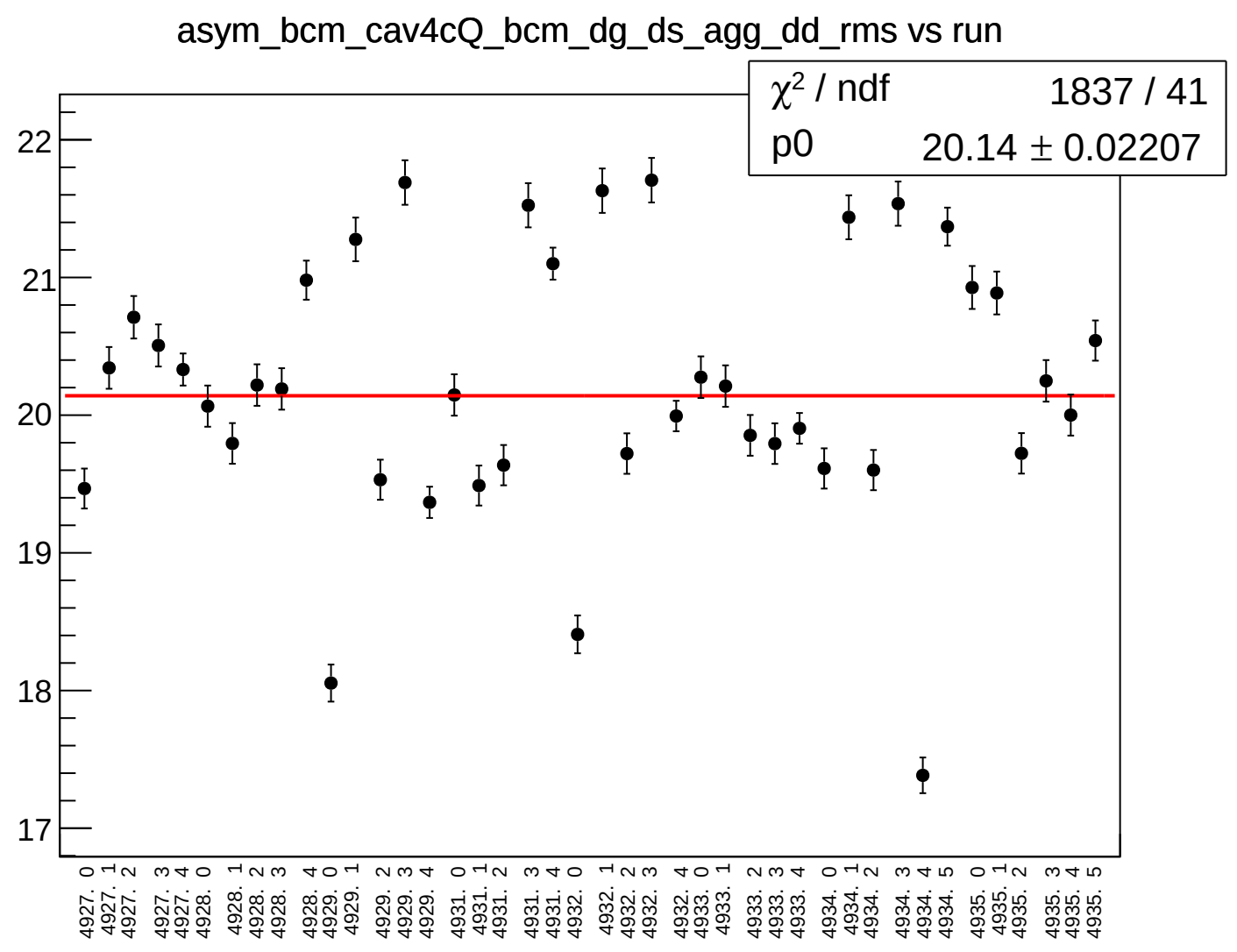

pull1D
Entries 42
Mean −0.02319
Std Dev 0.967

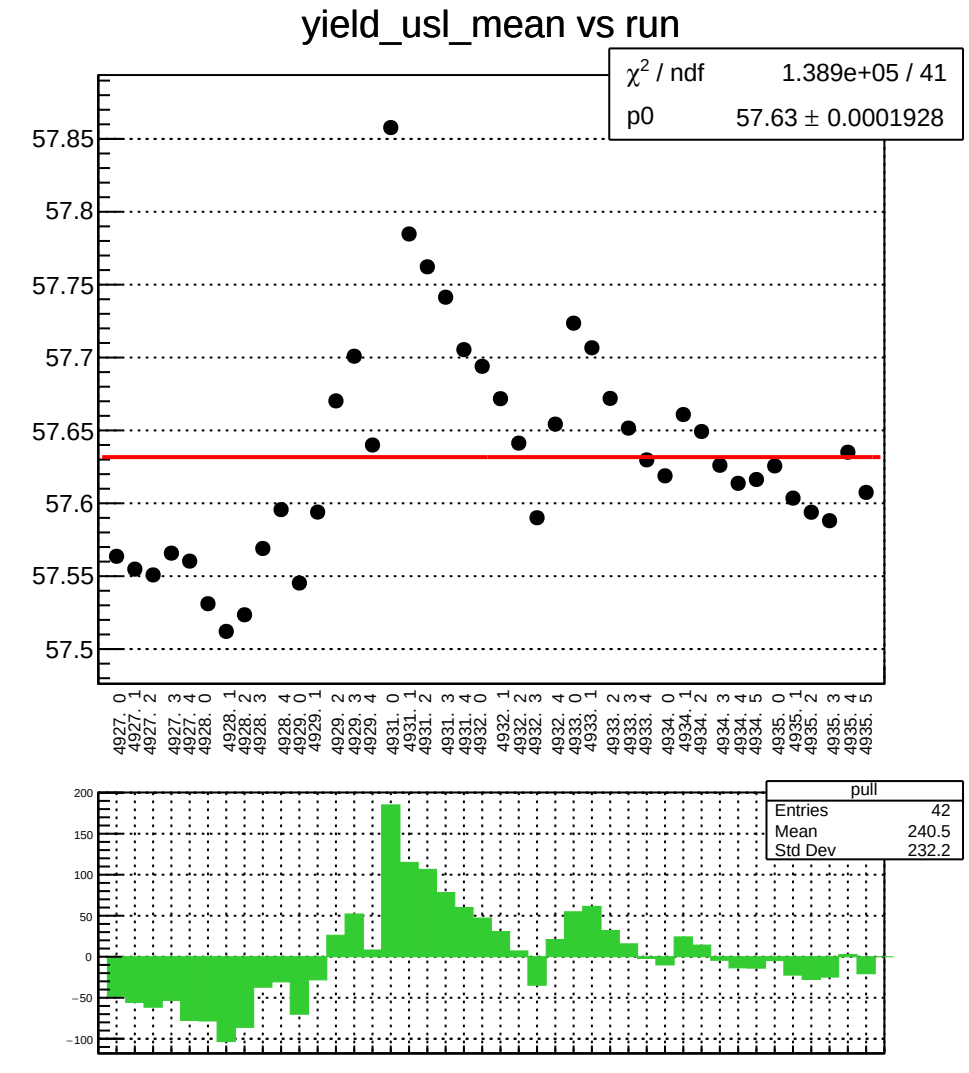

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 757.3 / 41
p0 25.56 ± 0.02799
27.5
27
26.5
26
25.5
25
24.5
24
23.5
23
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

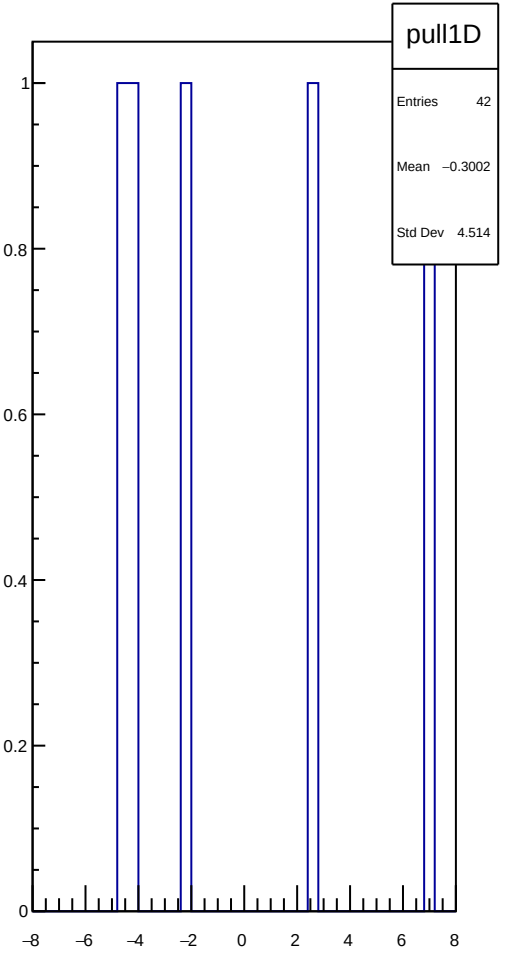

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 3.379 / 41
p0 −101.8 ± 265.7
3000
2000
1000
0
−1000
−2000
−3000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −90.89
Std Dev 113.9
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 42
Mean −0.003509
Std Dev 0.2836
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

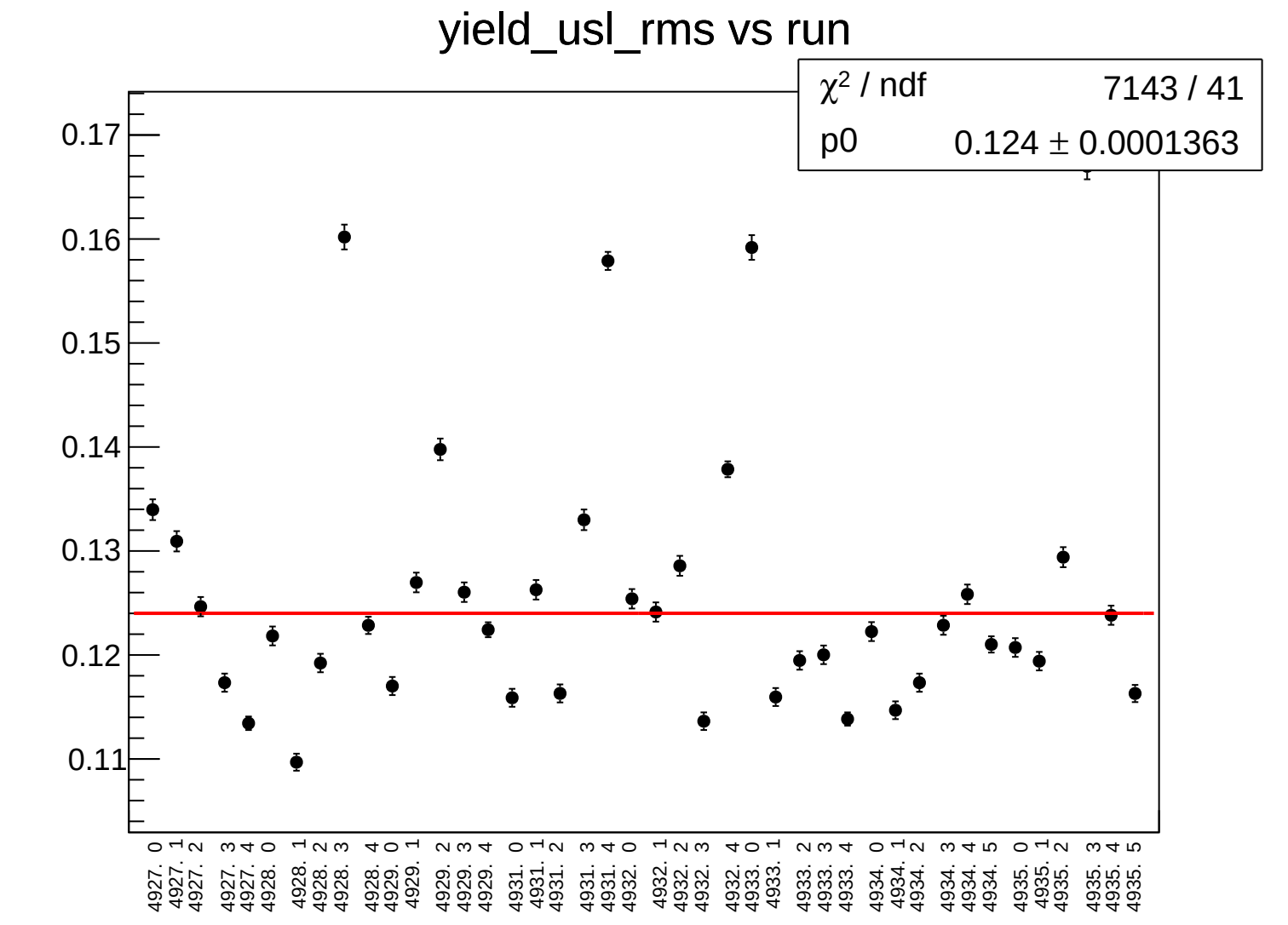

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1321 / 41
p0 171.5 ± 0.1879
185
180
175
170
165
160
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

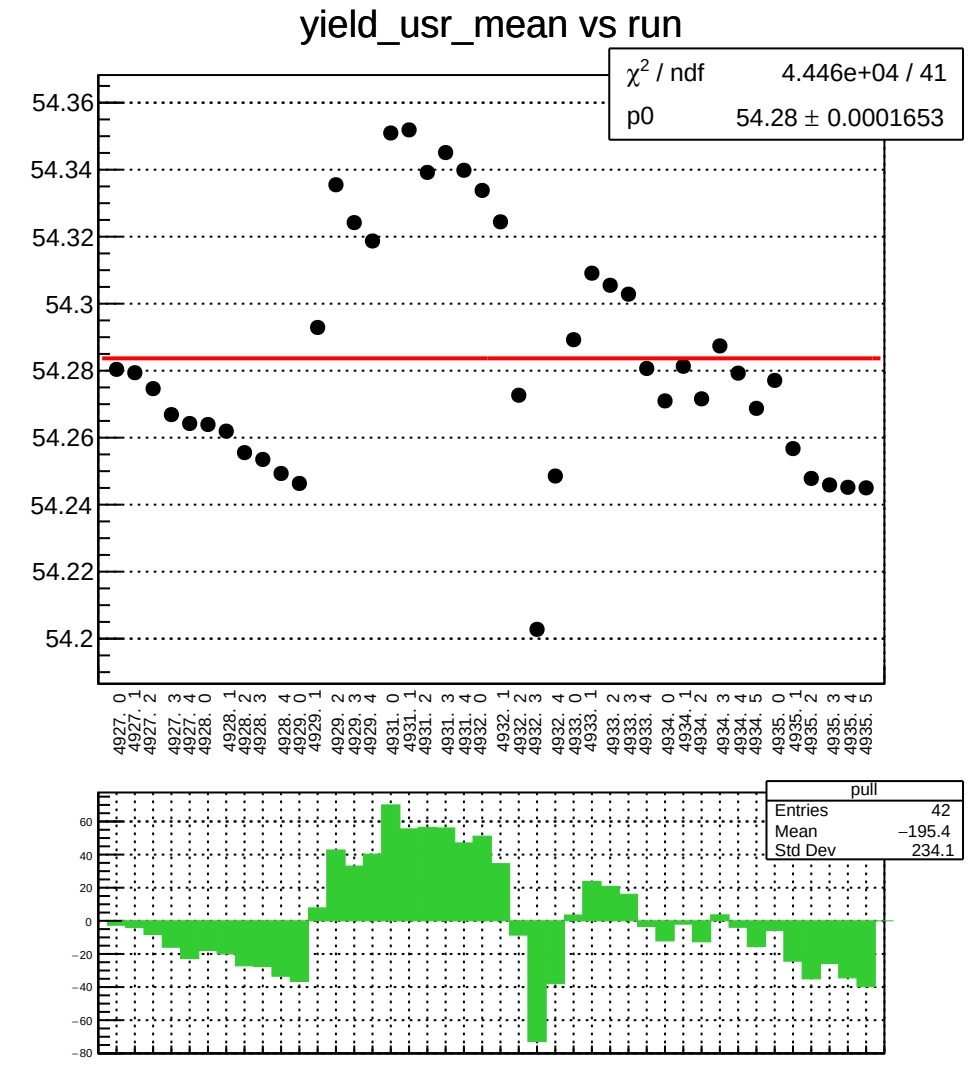

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 48.81 / 41
p0 −12.36 ± 31.21
800
600
400
200
0
−200
−400
−600
−800
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −108.9
Std Dev 136.9
2
1
0
−1
−2
pull1D
Entries 42
Mean −0.01234
Std Dev 1.078
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

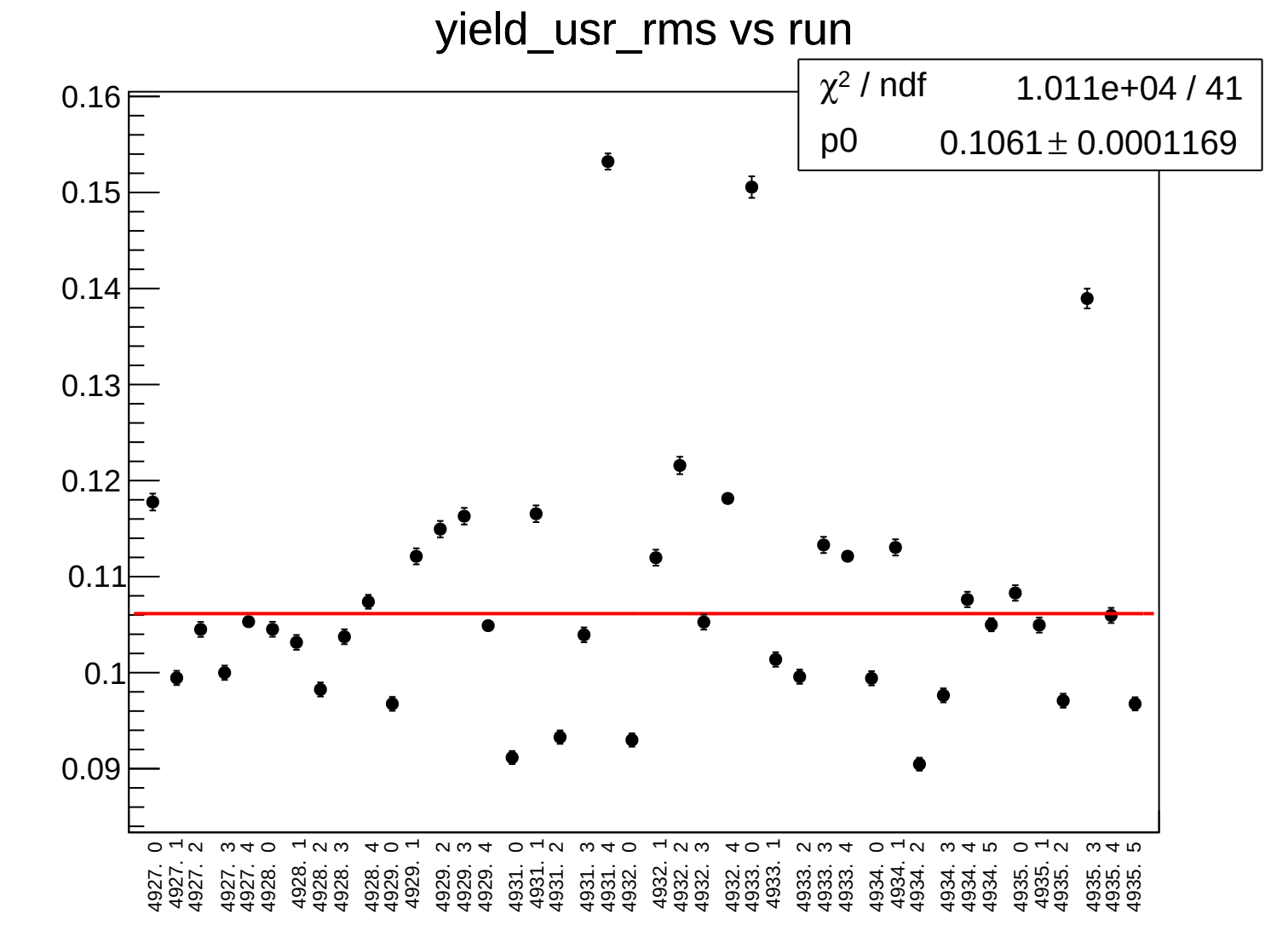

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1837 / 41
p0 20.14 ± 0.02207
22
21
20
19
18
17
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

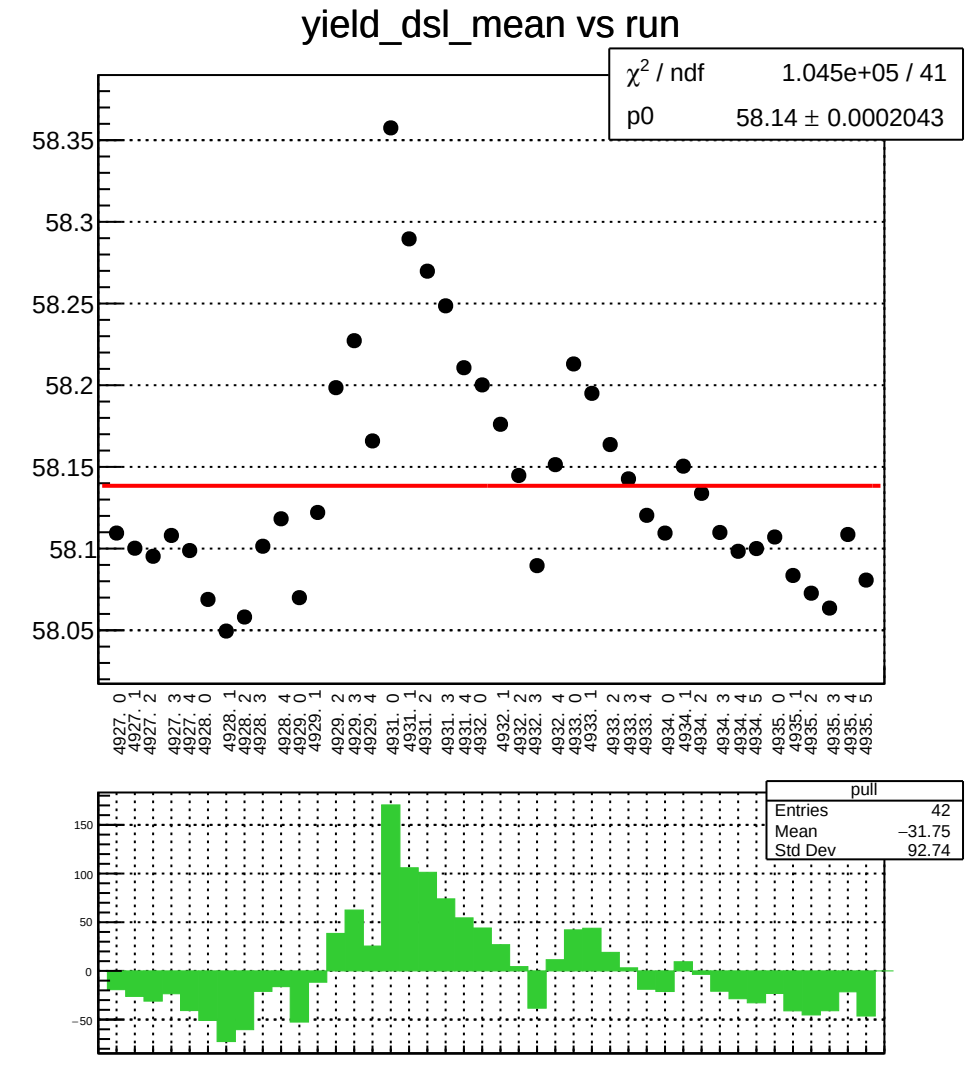

yield_usl_mean vs run
χ² / ndf 1.389e+05 / 41
p0 57.63 ± 0.0001928
57.85
57.8
57.75
57.7
57.65
57.6
57.55
57.5
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 240.5
Std Dev 232.2
200
150
100
50
0
−50
−100

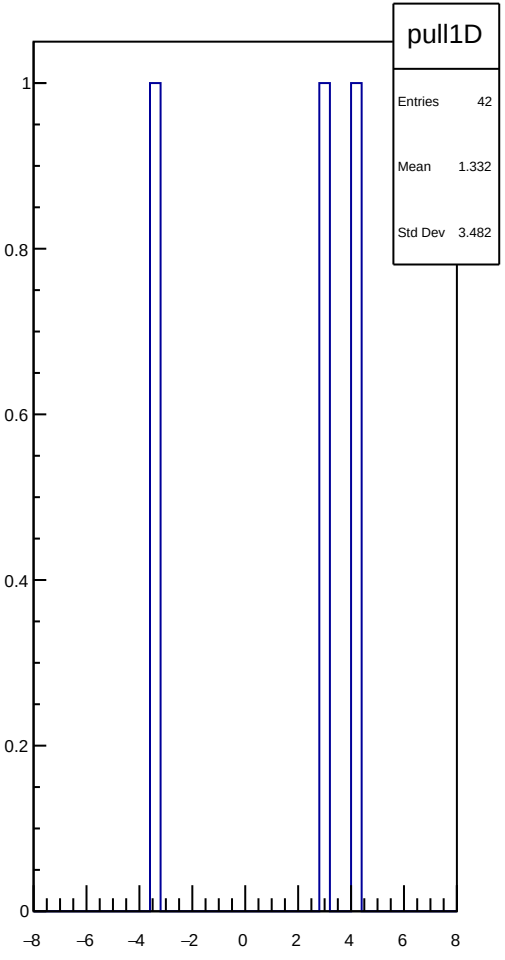

pull1D
Entries 42
Mean −0.3002
Std Dev 4.514
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

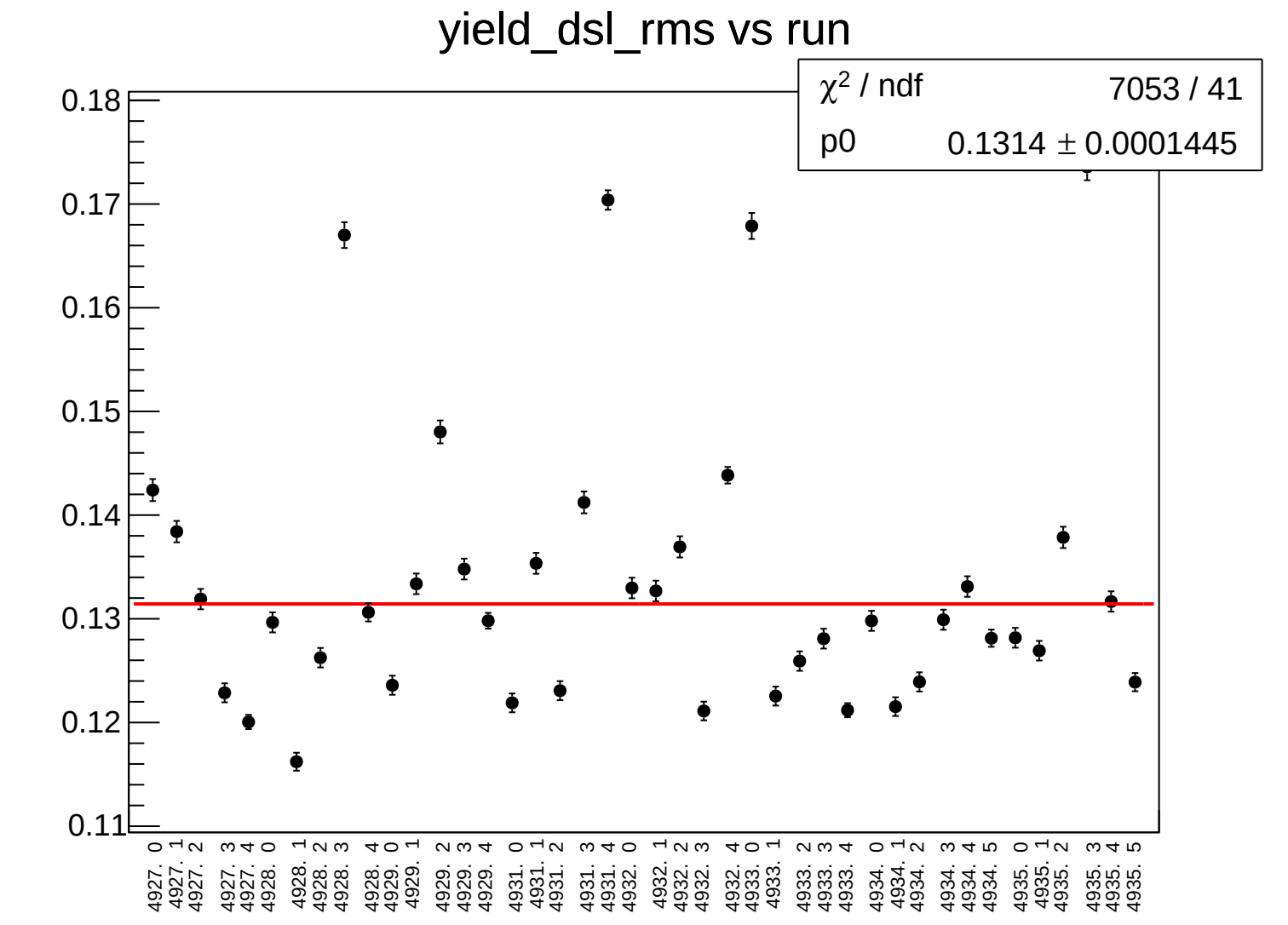

yield_usl_rms vs run
χ² / ndf 7143 / 41
p0 0.124 ± 0.0001363
0.17
0.16
0.15
0.14
0.13
0.12
0.11
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

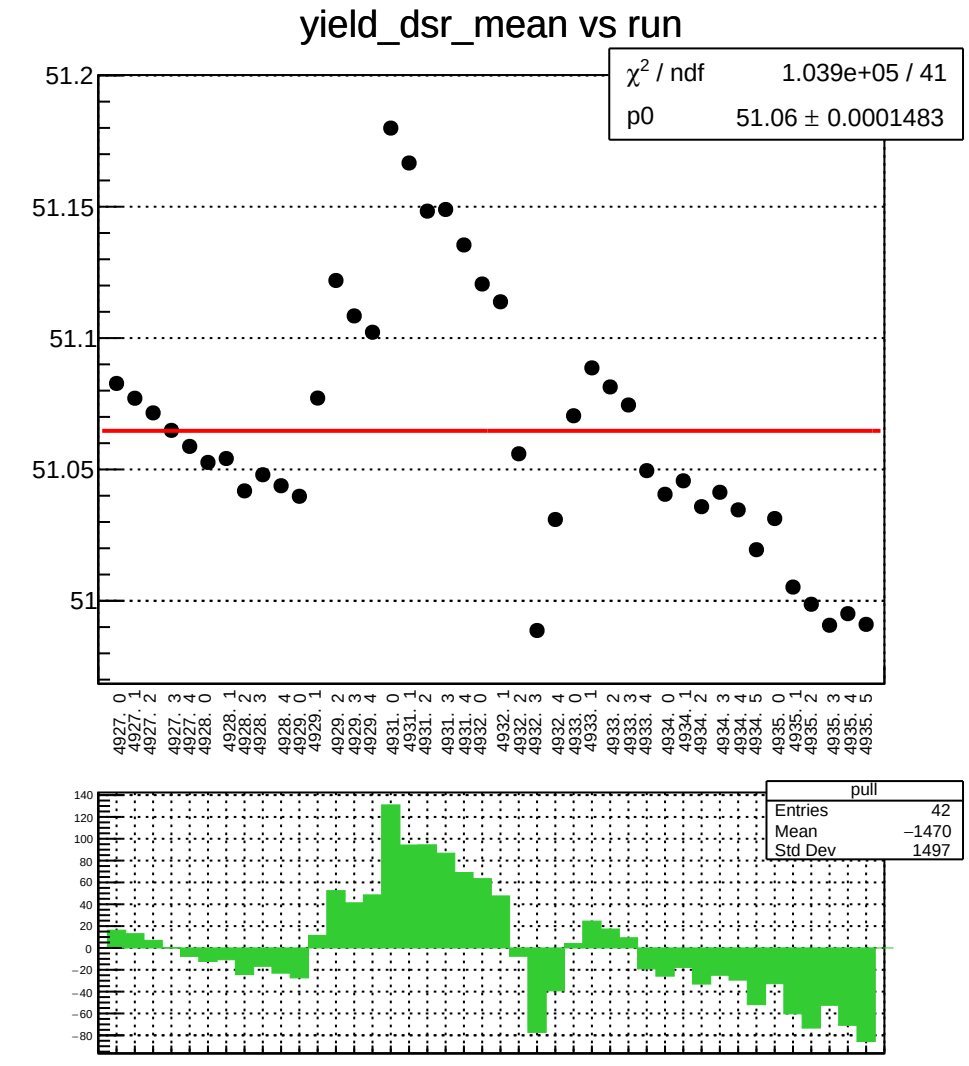

yield_usr_mean vs run
χ² / ndf 4.446e+04 / 41
p0 54.28 ± 0.0001653
54.36
54.34
54.32
54.3
54.28
54.26
54.24
54.22
54.2
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −195.4
Std Dev 234.1
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 42
Mean −0.762
Std Dev 4.327
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

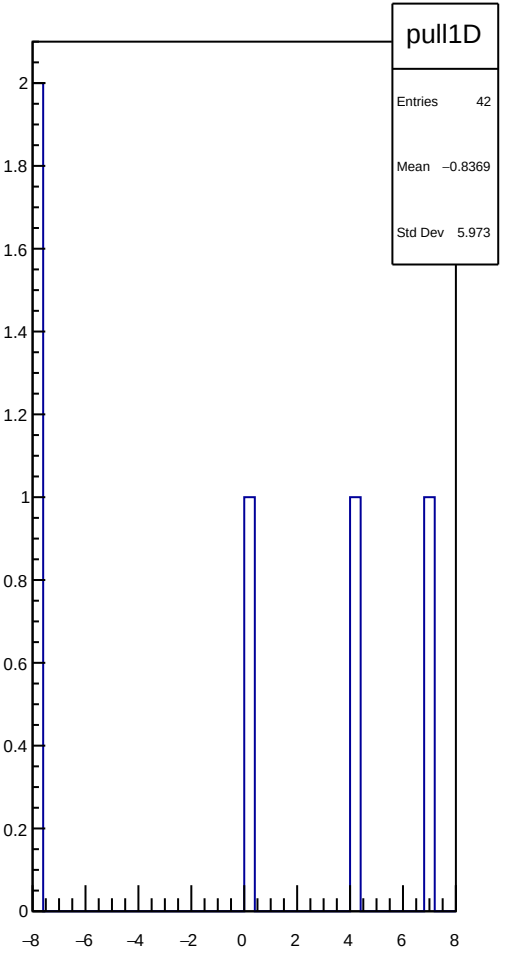

yield_usr_rms vs run
χ² / ndf 1.011e+04 / 41
p0 0.1061 ± 0.0001169
0.16
0.15
0.14
0.13
0.12
0.11
0.1
0.09
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

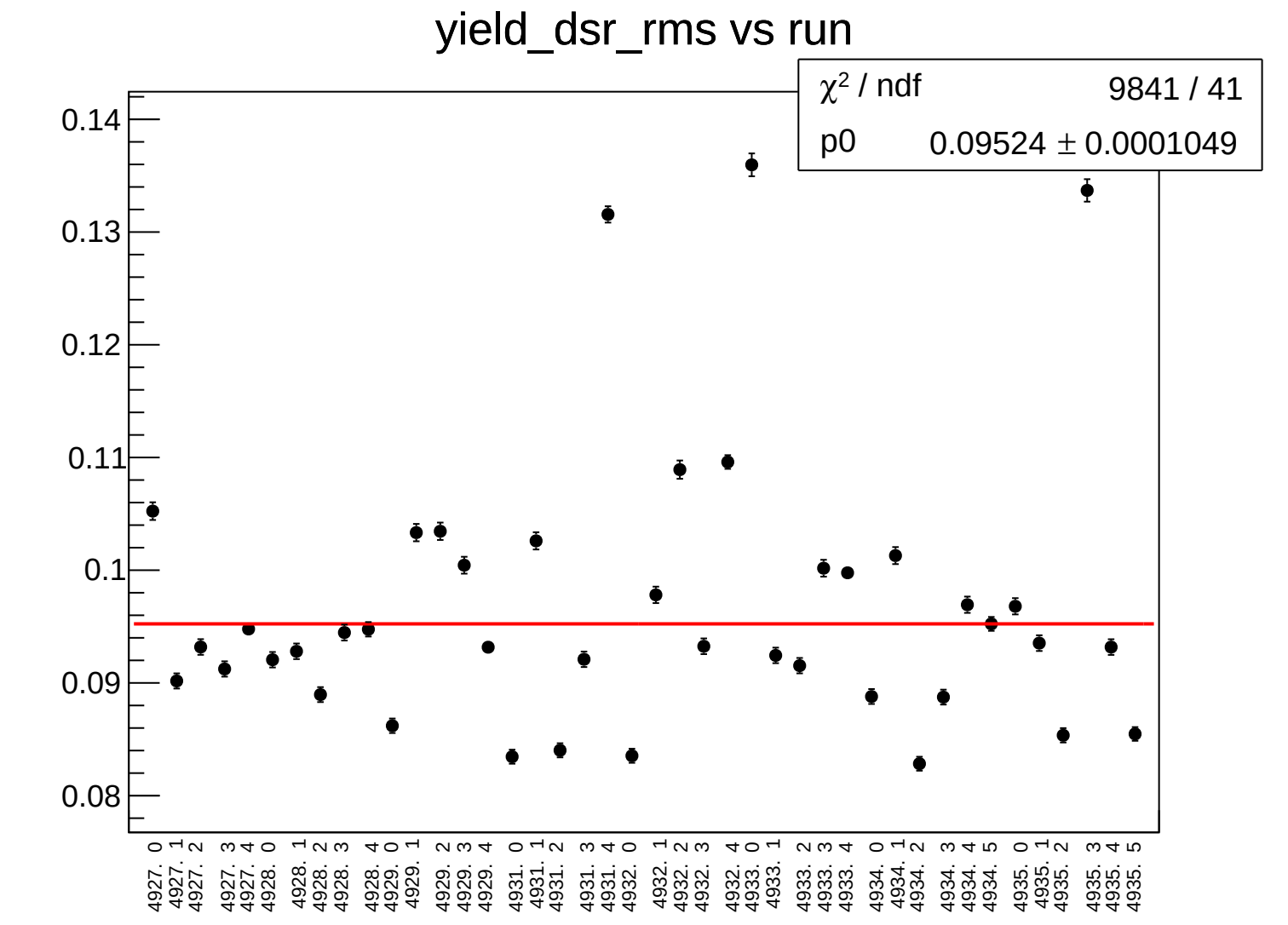

yield_dsl_mean vs run
χ² / ndf 1.045e+05 / 41
p0 58.14 ± 0.0002043
58.35
58.3
58.25
58.2
58.15
58.1
58.05
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −31.75
Std Dev 92.74
150
100
50
0
−50

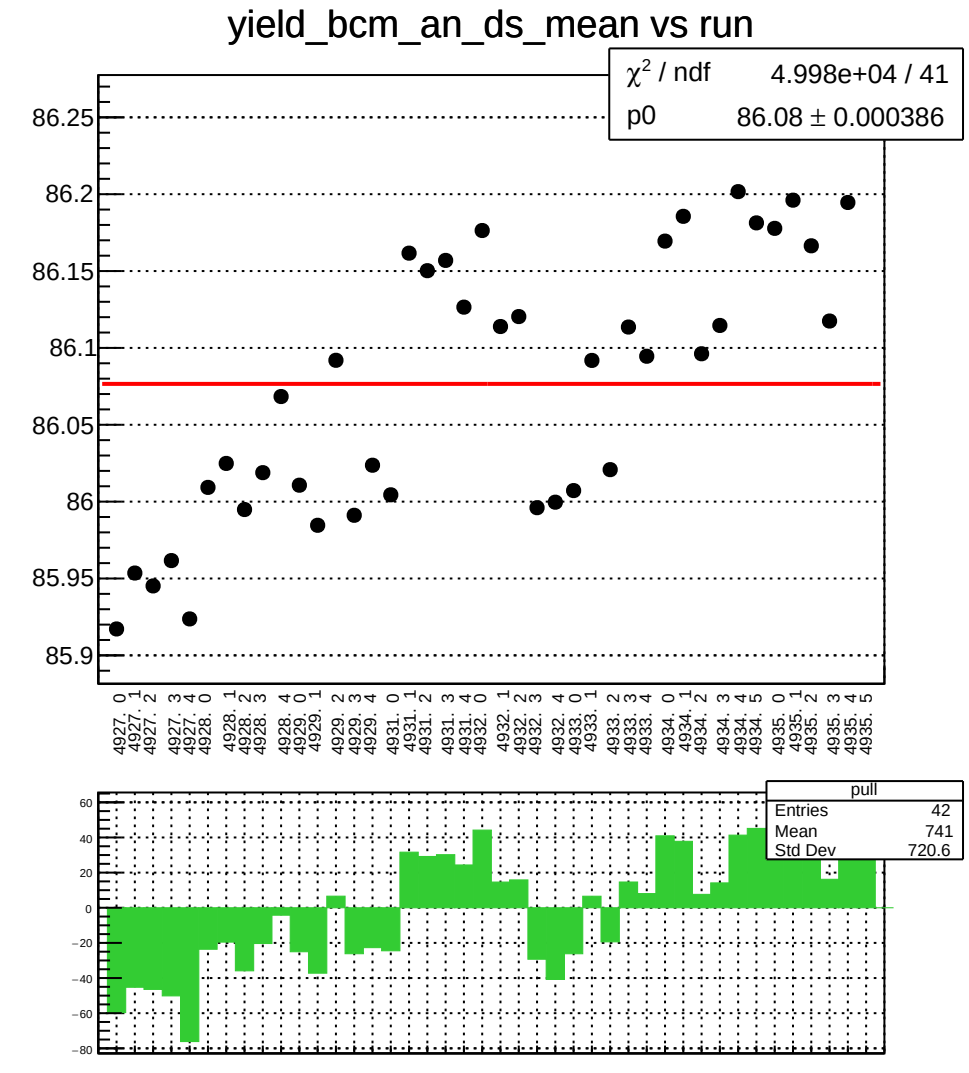

pull1D
Entries 42
Mean 1.332
Std Dev 3.482
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

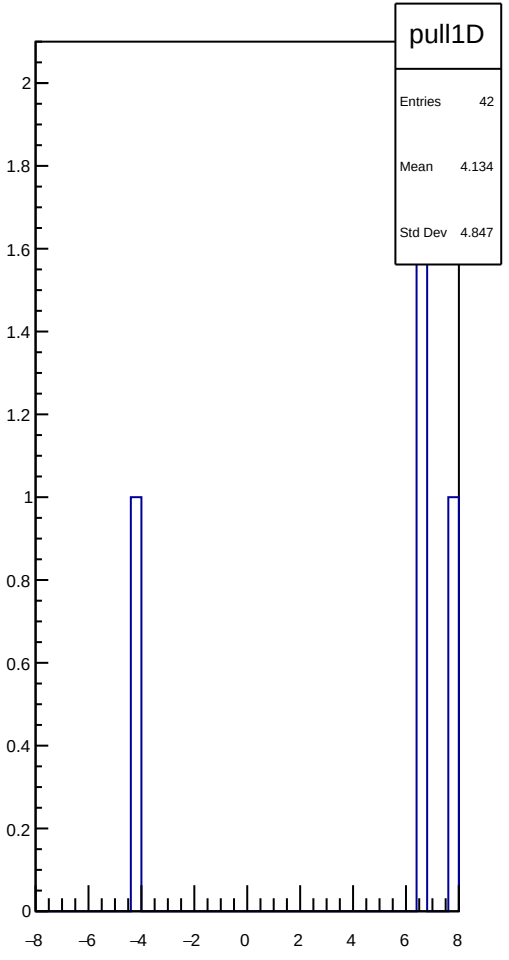

yield_dsl_rms vs run
χ² / ndf 7053 / 41
p0 0.1314 ± 0.0001445
0.18
0.17
0.16
0.15
0.14
0.13
0.12
0.11
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

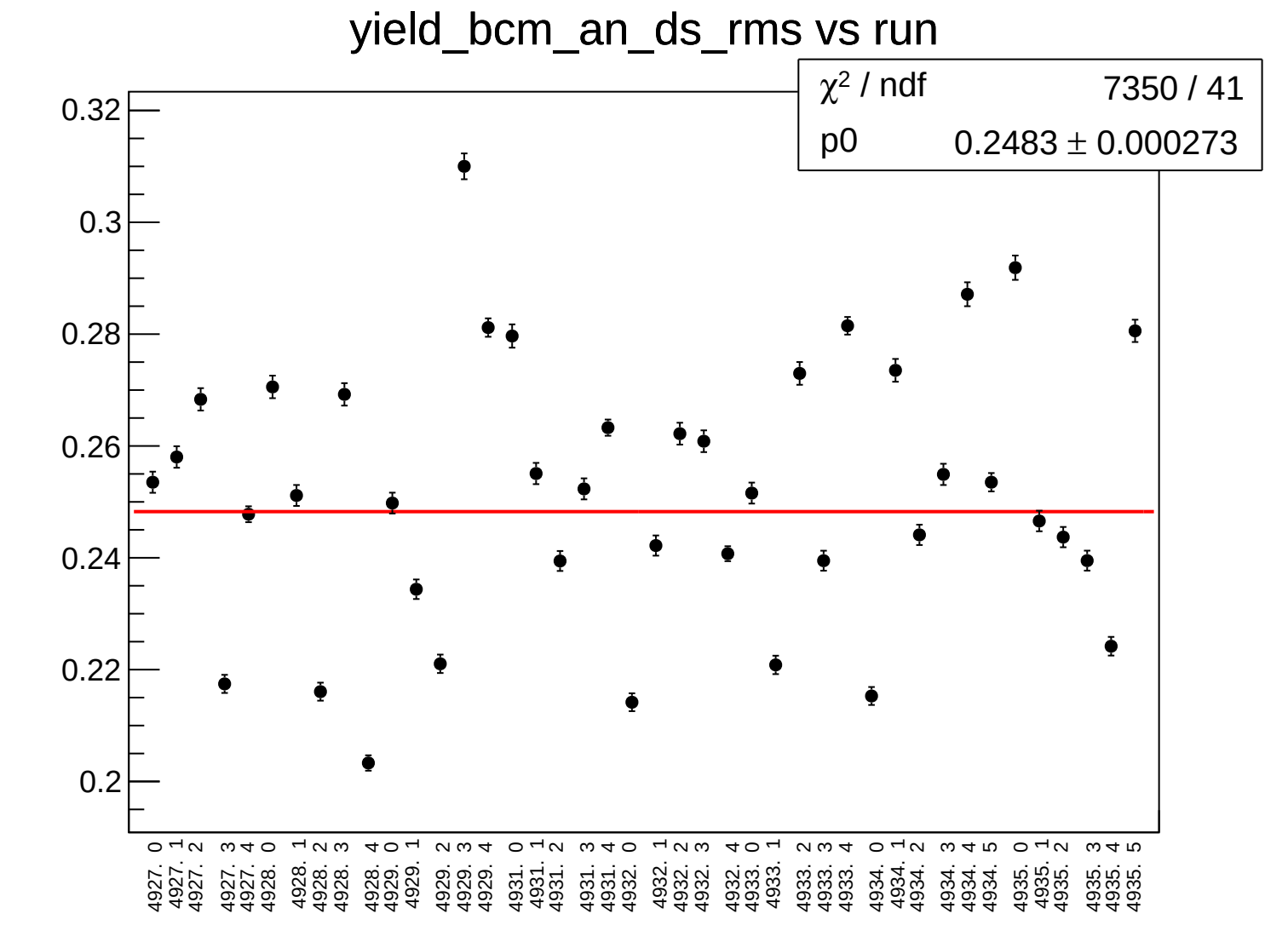

yield_dsr_mean vs run
χ² / ndf 1.039e+05 / 41
p0 51.06 ± 0.0001483
51.2
51.15
51.1
51.05
51
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −1470
Std Dev 1497
140
120
100
80
60
40
20
0
−20
−40
−60
−80

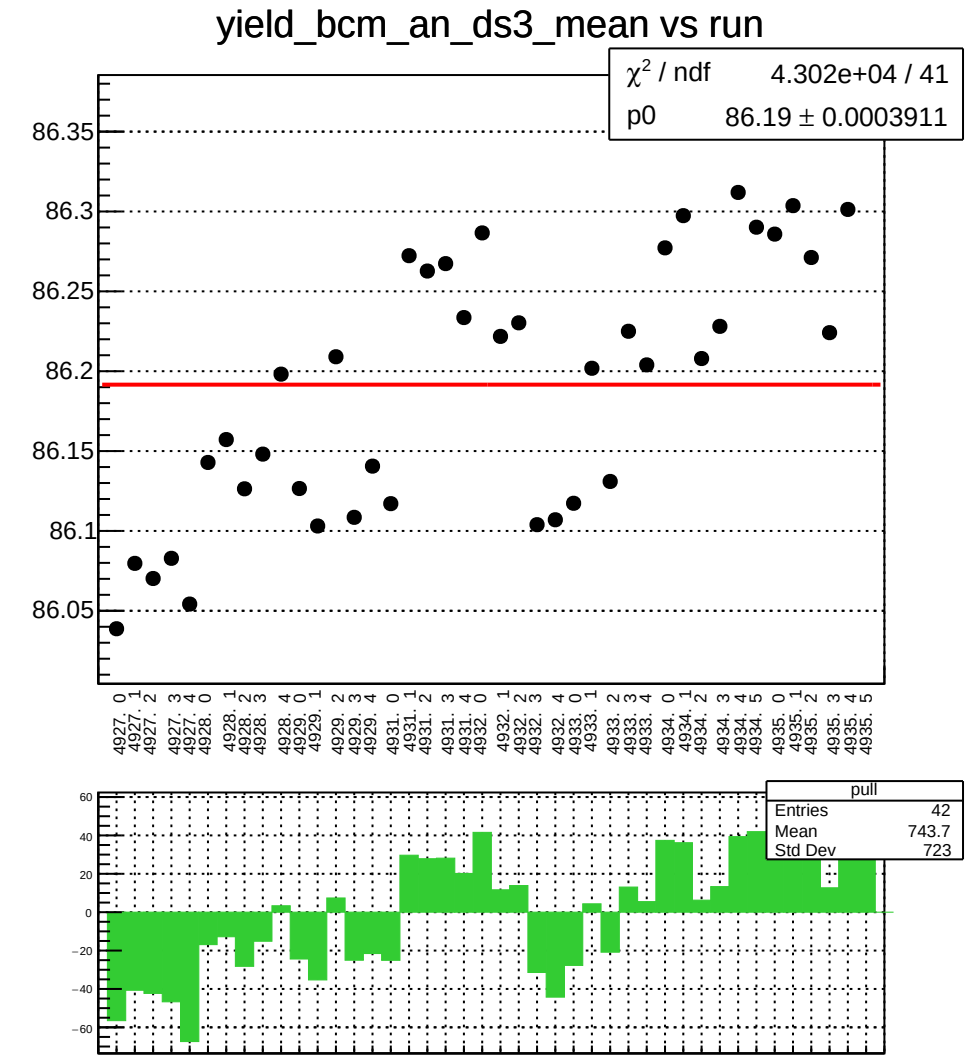

pull1D
Entries 42
Mean −0.8369
Std Dev 5.973
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

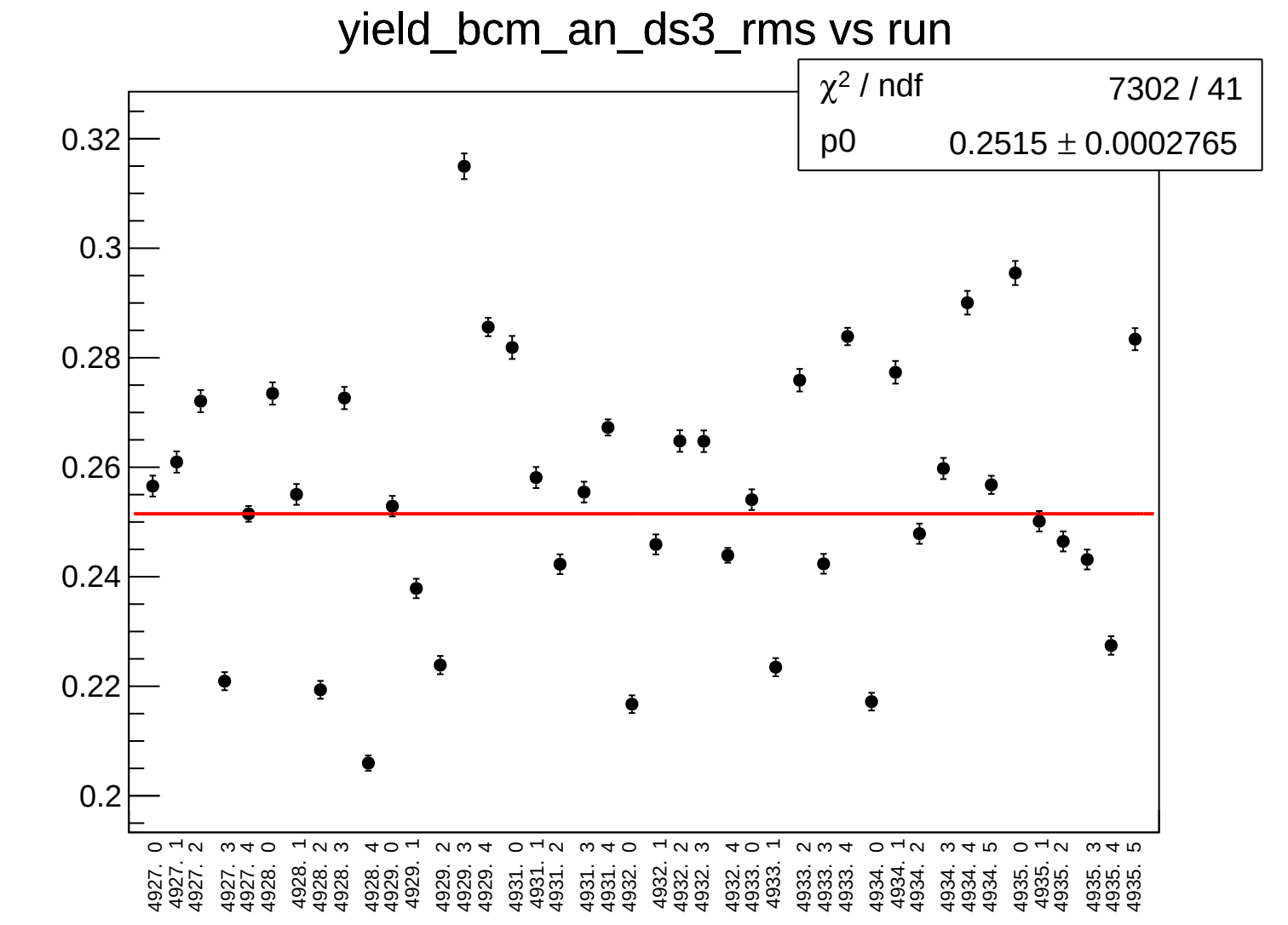

yield_dsr_rms vs run
χ² / ndf 9841 / 41
p0 0.09524 ± 0.0001049
0.14
0.13
0.12
0.11
0.1
0.09
0.08
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

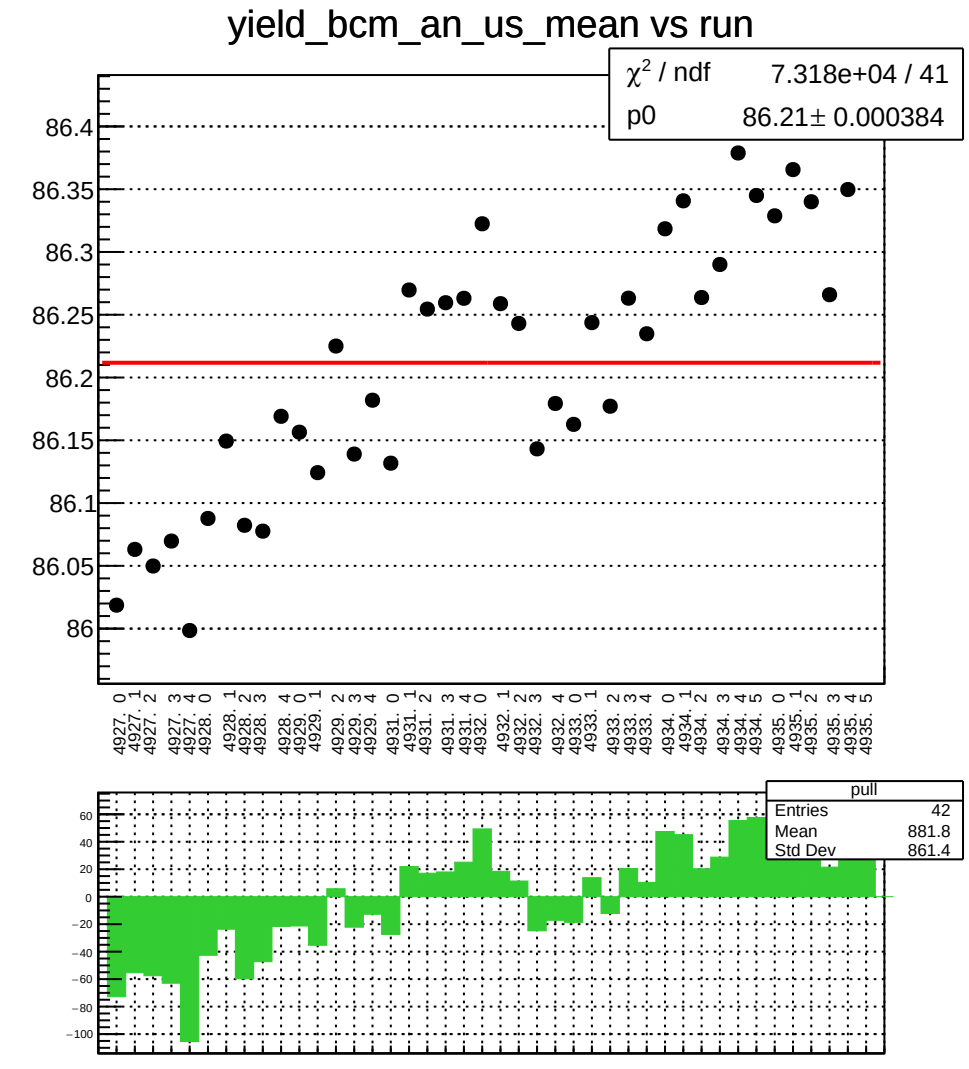

yield_bcm_an_ds_mean vs run
χ² / ndf 4.998e+04 / 41
p0 86.08 ± 0.000386
86.25
86.2
86.15
86.1
86.05
86
85.95
85.9
pull
Entries 42
Mean 741
Std Dev 720.6
60
40
20
0
−20
−40
−60
−80

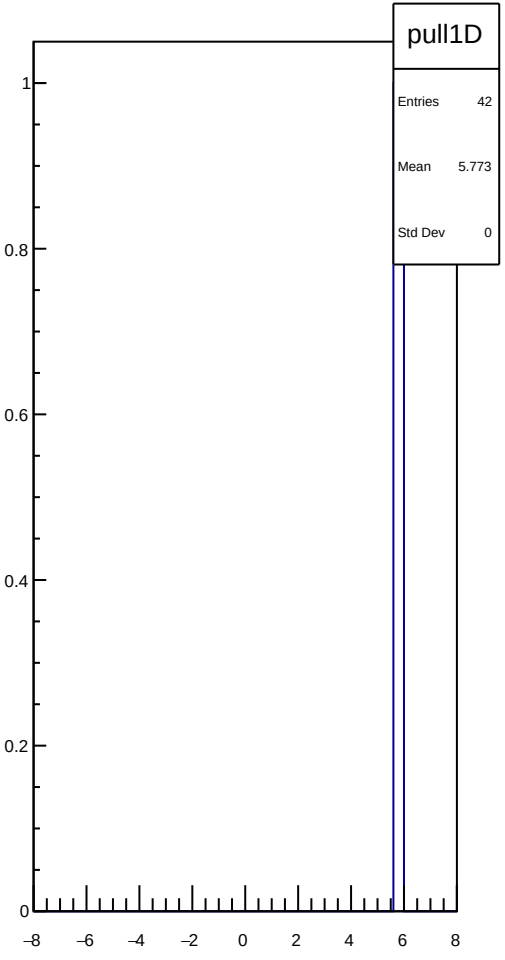

pull1D
Entries 42
Mean 4.134
Std Dev 4.847
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

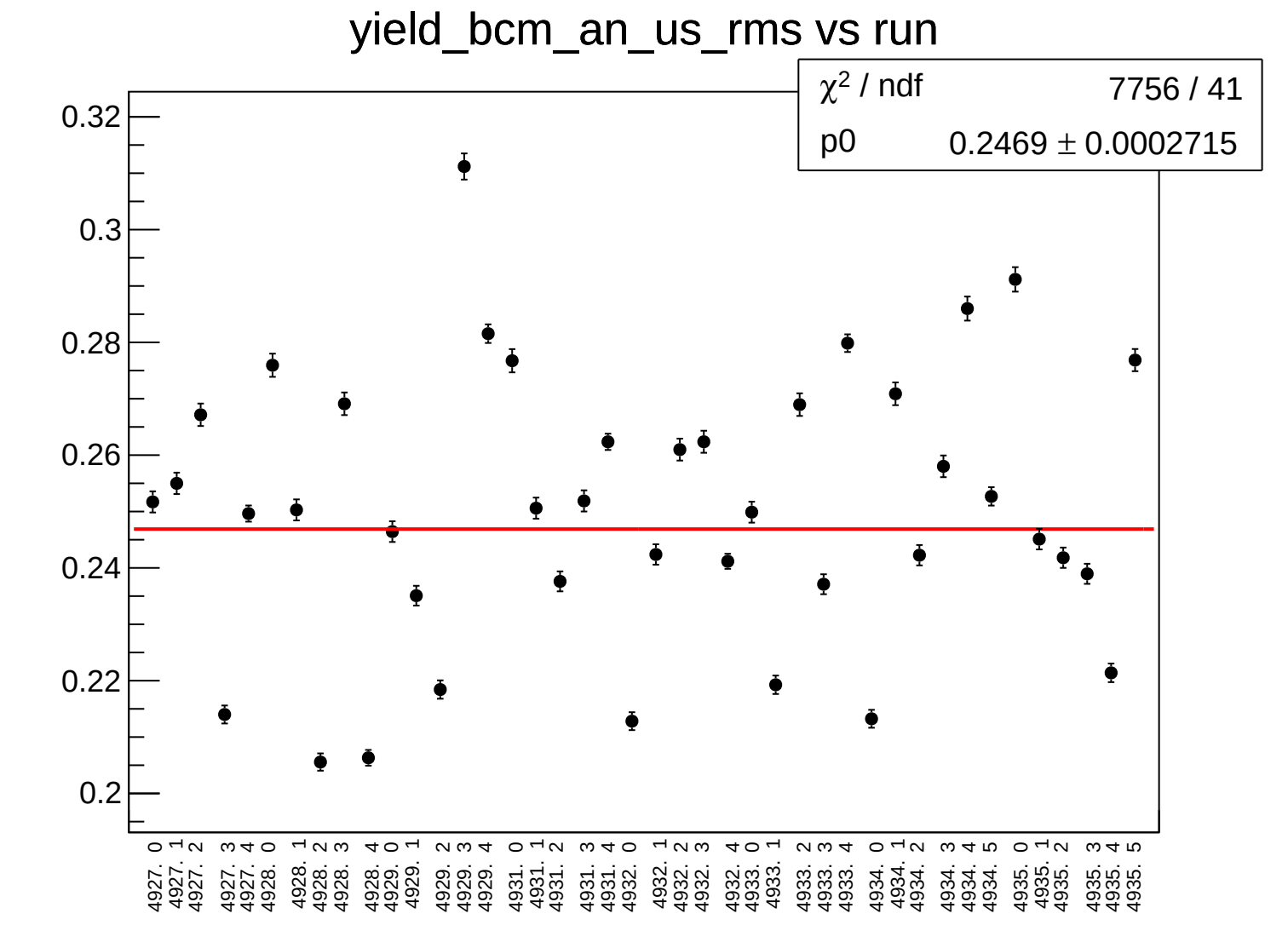

yield_bcm_an_ds_rms vs run
χ² / ndf 7350 / 41
p0 0.2483 ± 0.000273
0.32
0.3
0.28
0.26
0.24
0.22
0.2
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

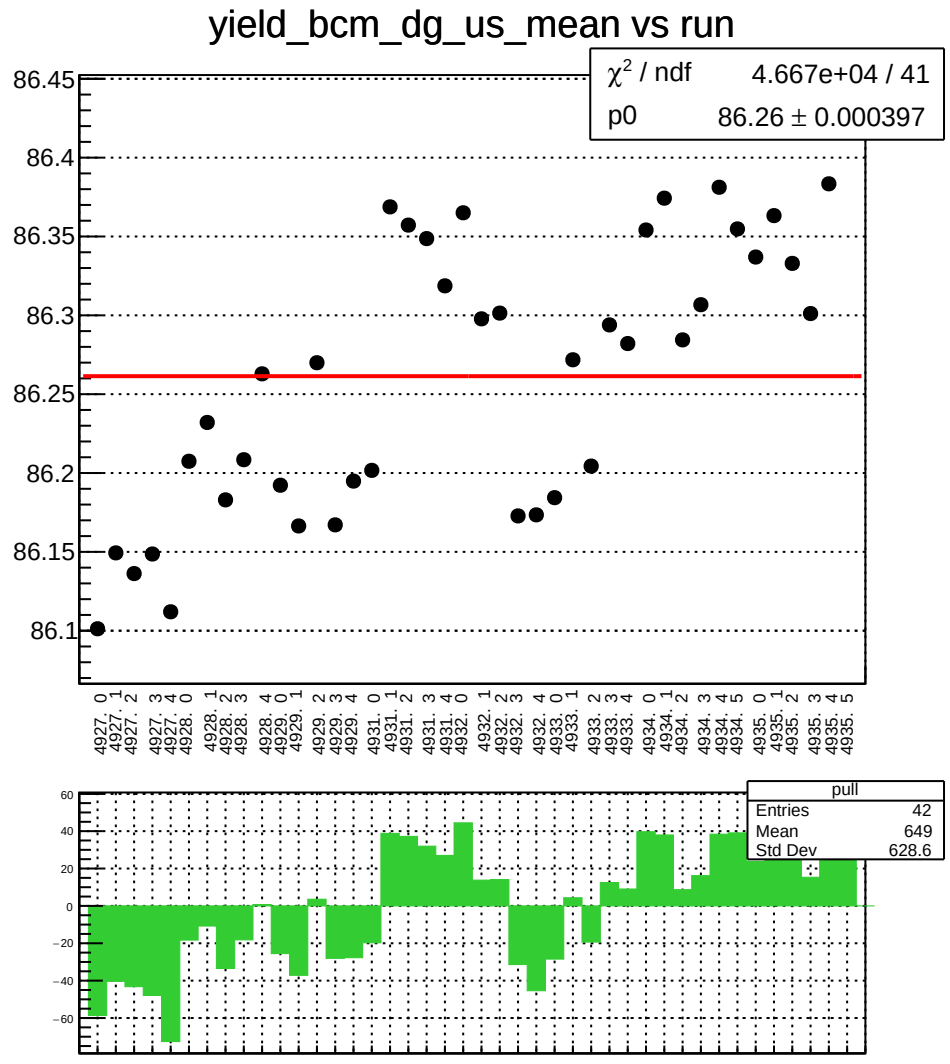

yield_bcm_an_ds3_mean vs run
χ² / ndf 4.302e+04 / 41
p0 86.19 ± 0.0003911
86.35
86.3
86.25
86.2
86.15
86.1
86.05
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 743.7
Std Dev 723
60
40
20
0
−20
−40
−60
pull1D
Entries 42
Mean 5.371
Std Dev 1.42
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

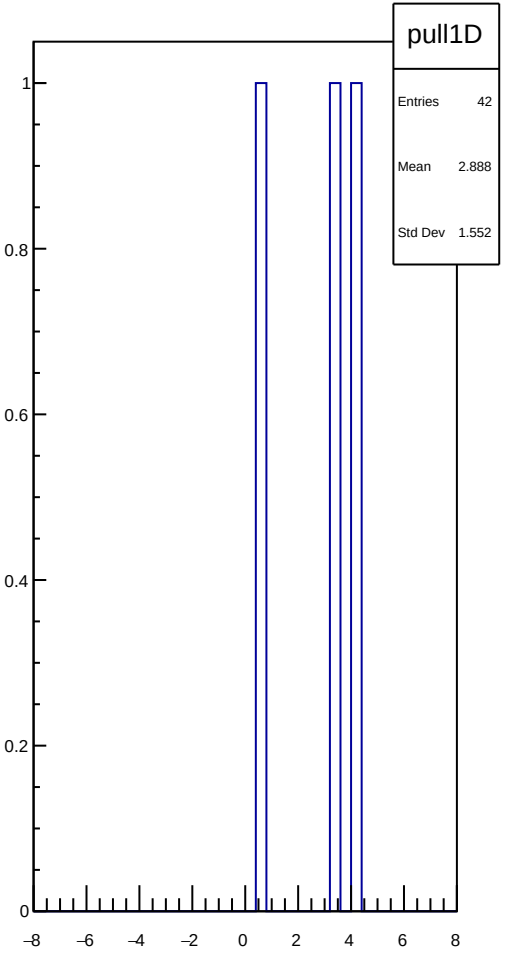

yield_bcm_an_ds3_rms vs run
χ² / ndf 7302 / 41
p0 0.2515 ± 0.0002765
0.32
0.3
0.28
0.26
0.24
0.22
0.2
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

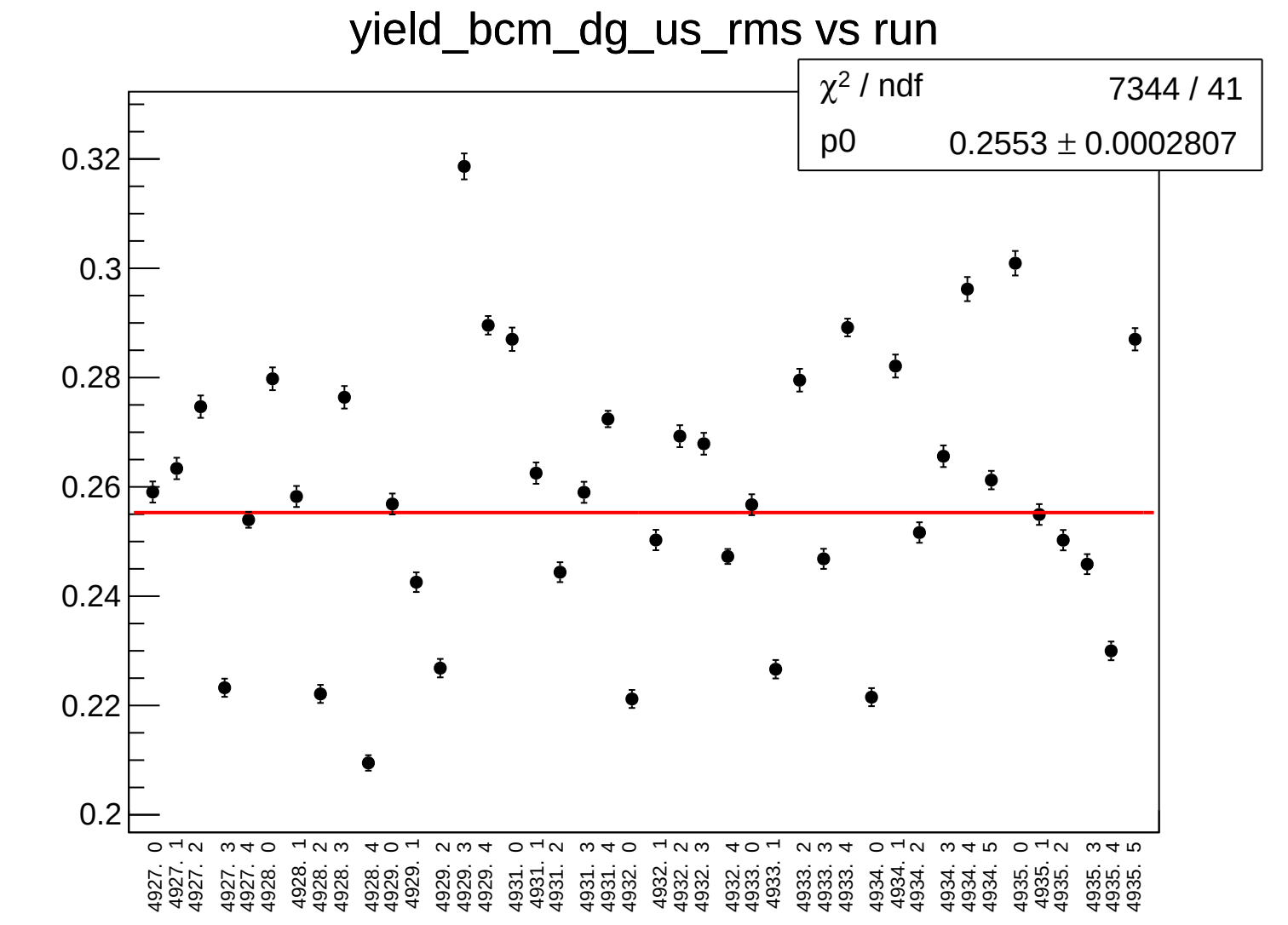

yield_bcm_an_us_mean vs run
χ² / ndf 7.318e+04 / 41
p0 86.21± 0.000384
86.4
86.35
86.3
86.25
86.2
86.15
86.1
86.05
86
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 881.8
Std Dev 861.4
60
40
20
0
−20
−40
−60
−80
−100

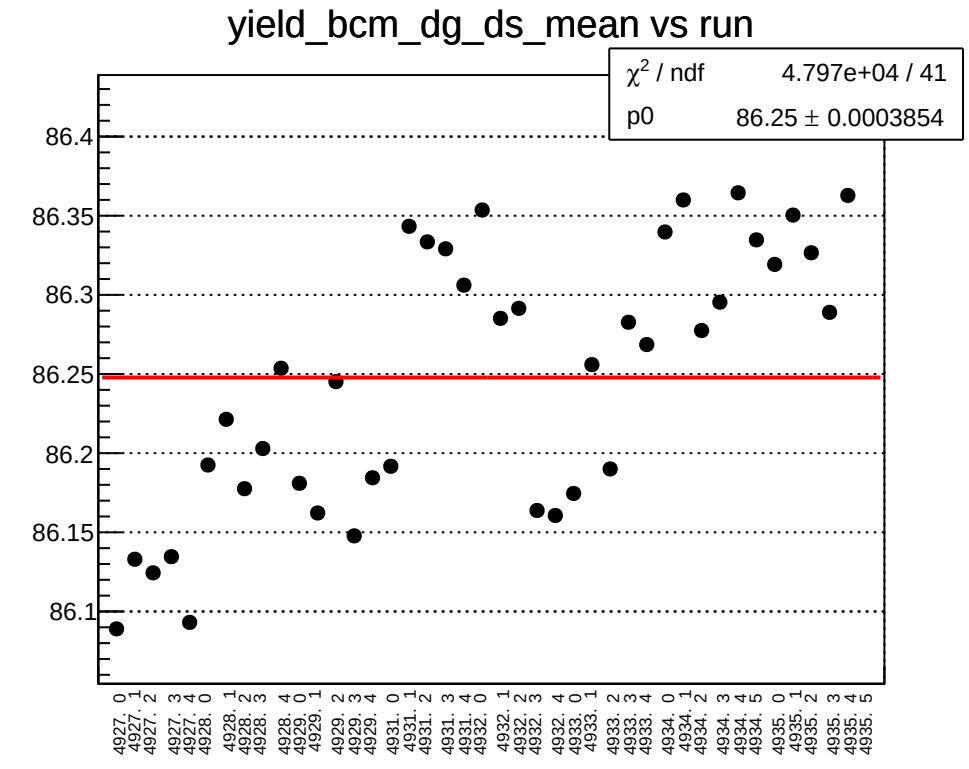

pull1D
Entries 42
Mean 5.773
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

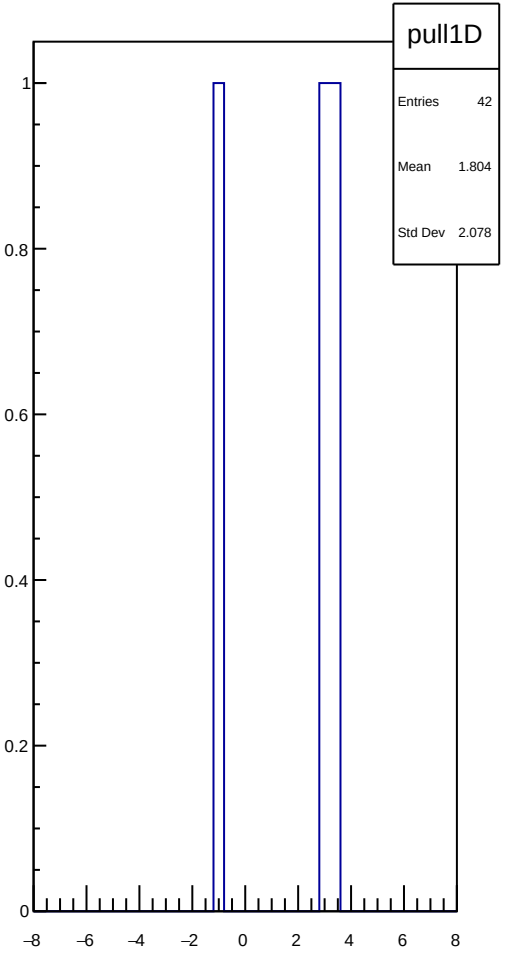

yield_bcm_an_us_rms vs run
χ2 / ndf 7756 / 41
p0 0.2469 ± 0.0002715
0.32
0.3
0.28
0.26
0.24
0.22
0.2
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

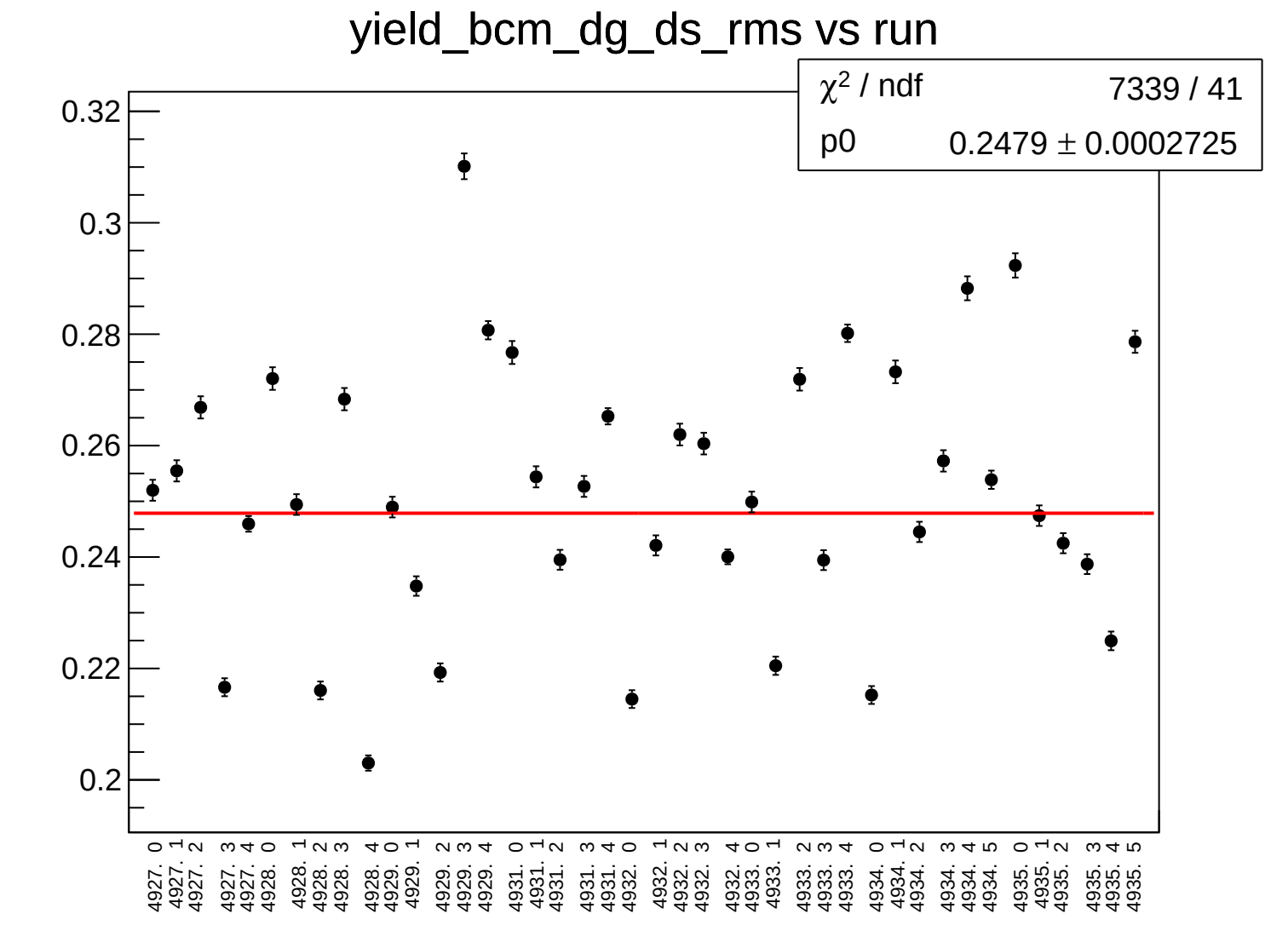

yield_bcm_dg_us_mean vs run
χ² / ndf 4.667e+04 / 41
p0 86.26 ± 0.000397
86.45
86.4
86.35
86.3
86.25
86.2
86.15
86.1
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 649
Std Dev 628.6
60
40
20
0
−20
−40
−60

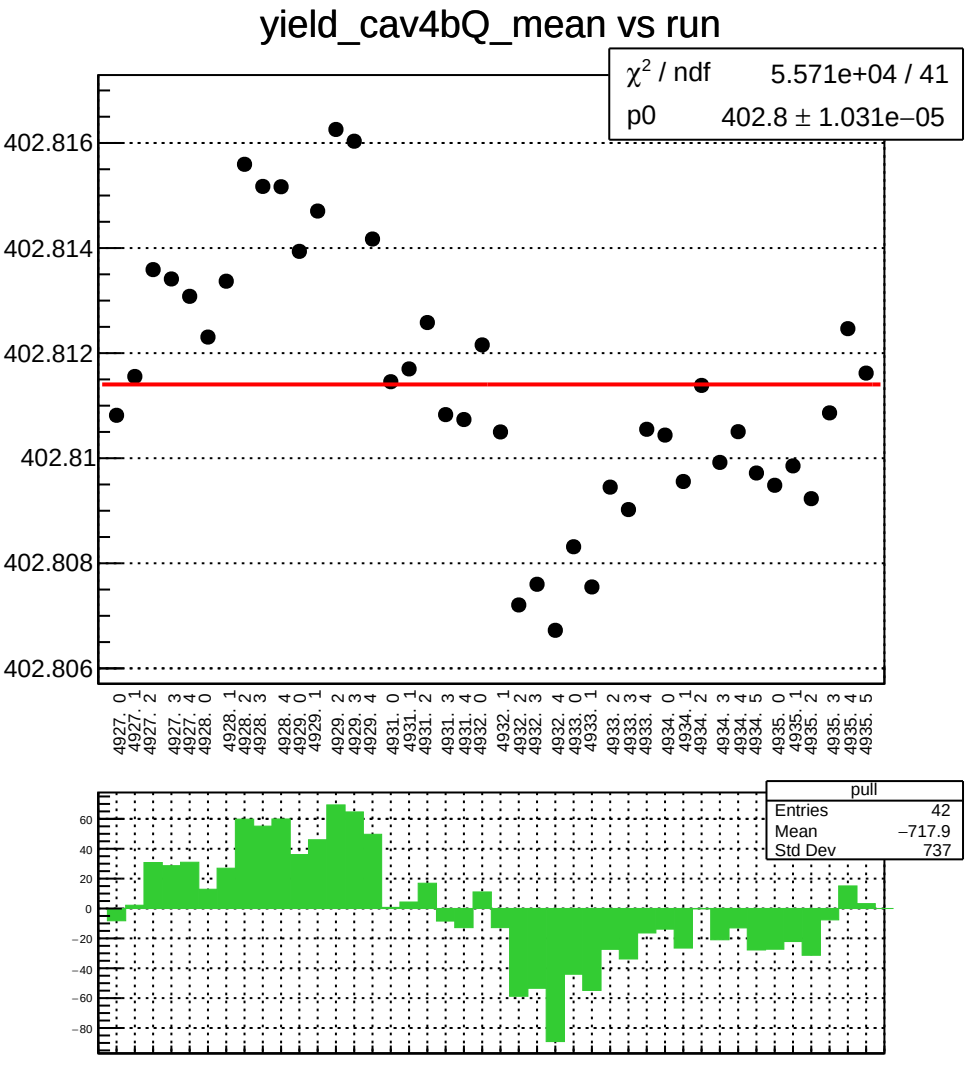

pull1D
Entries 42
Mean 2.888
Std Dev 1.552
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

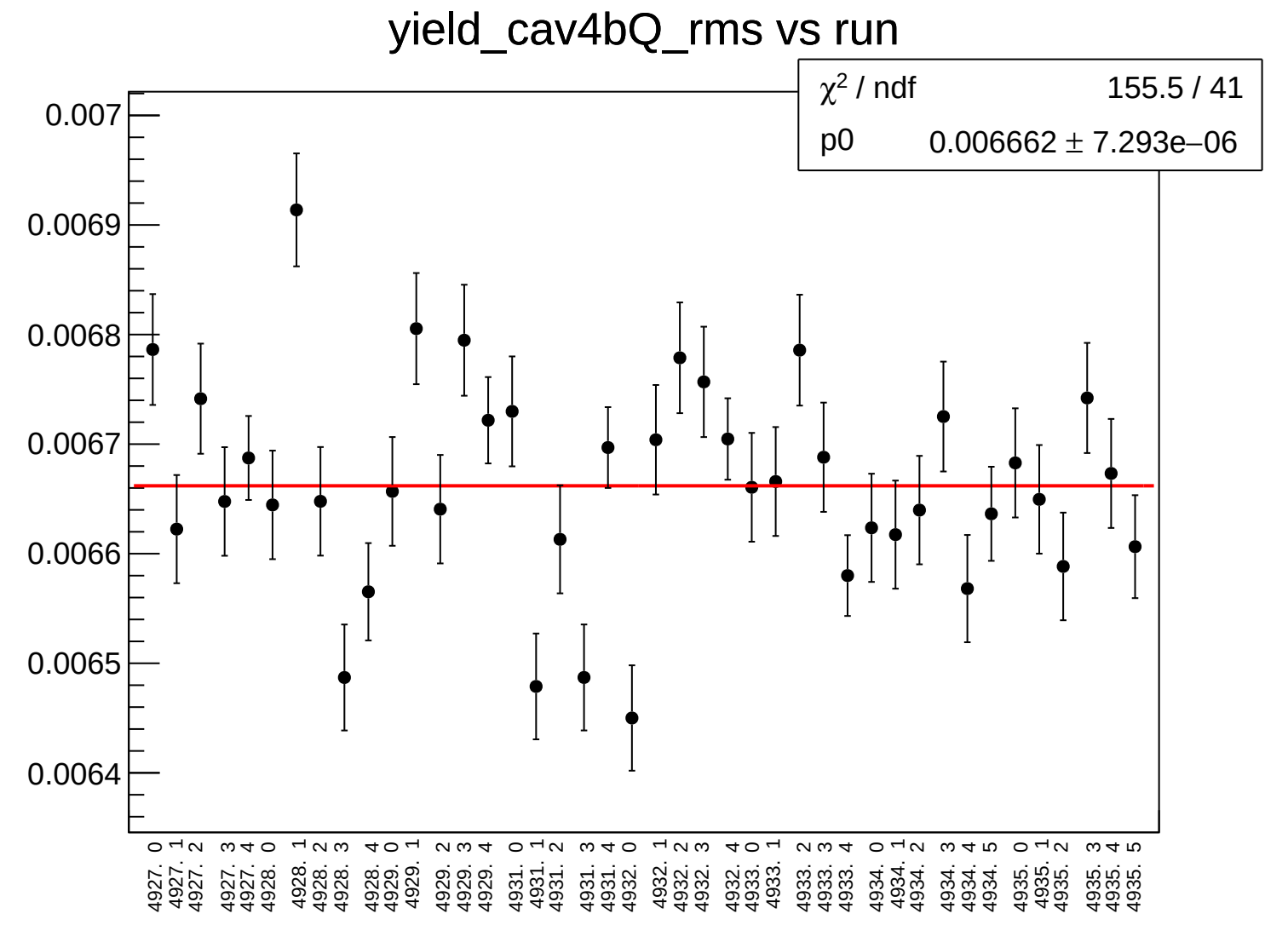

yield_bcm_dg_us_rms vs run
χ² / ndf 7344 / 41
p0 0.2553 ± 0.0002807
0.32
0.3
0.28
0.26
0.24
0.22
0.2
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

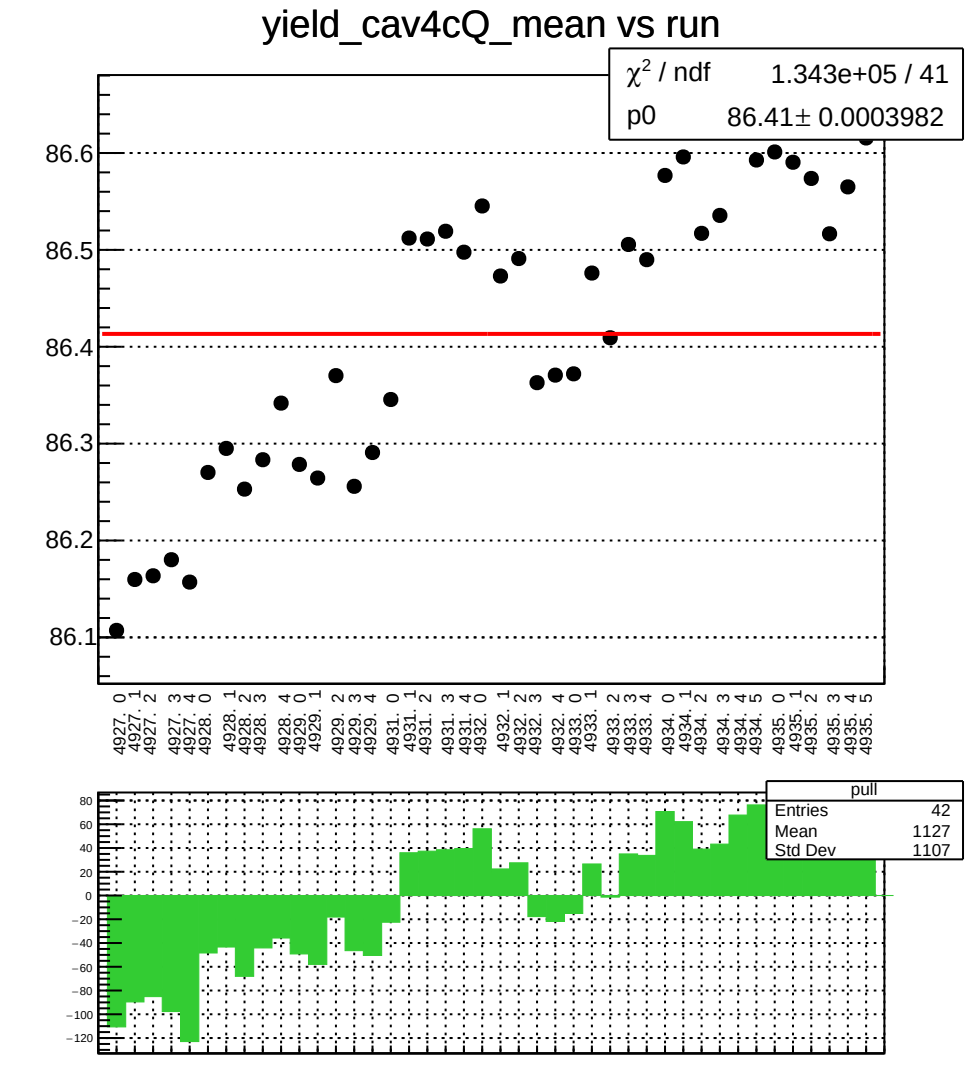

yield_bcm_dg_ds_mean vs run
χ² / ndf 4.797e+04 / 41
p0 86.25 ± 0.0003854
86.4
86.35
86.3
86.25
86.2
86.15
86.1
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 615.9
Std Dev 595.5
60
40
20
0
−20
−40
−60
−80

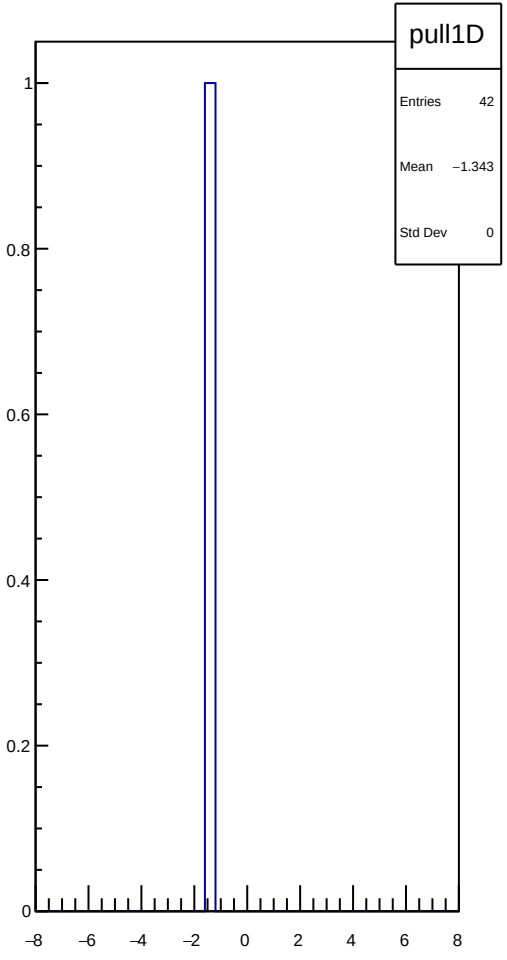

pull1D
Entries 42
Mean 1.804
Std Dev 2.078
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

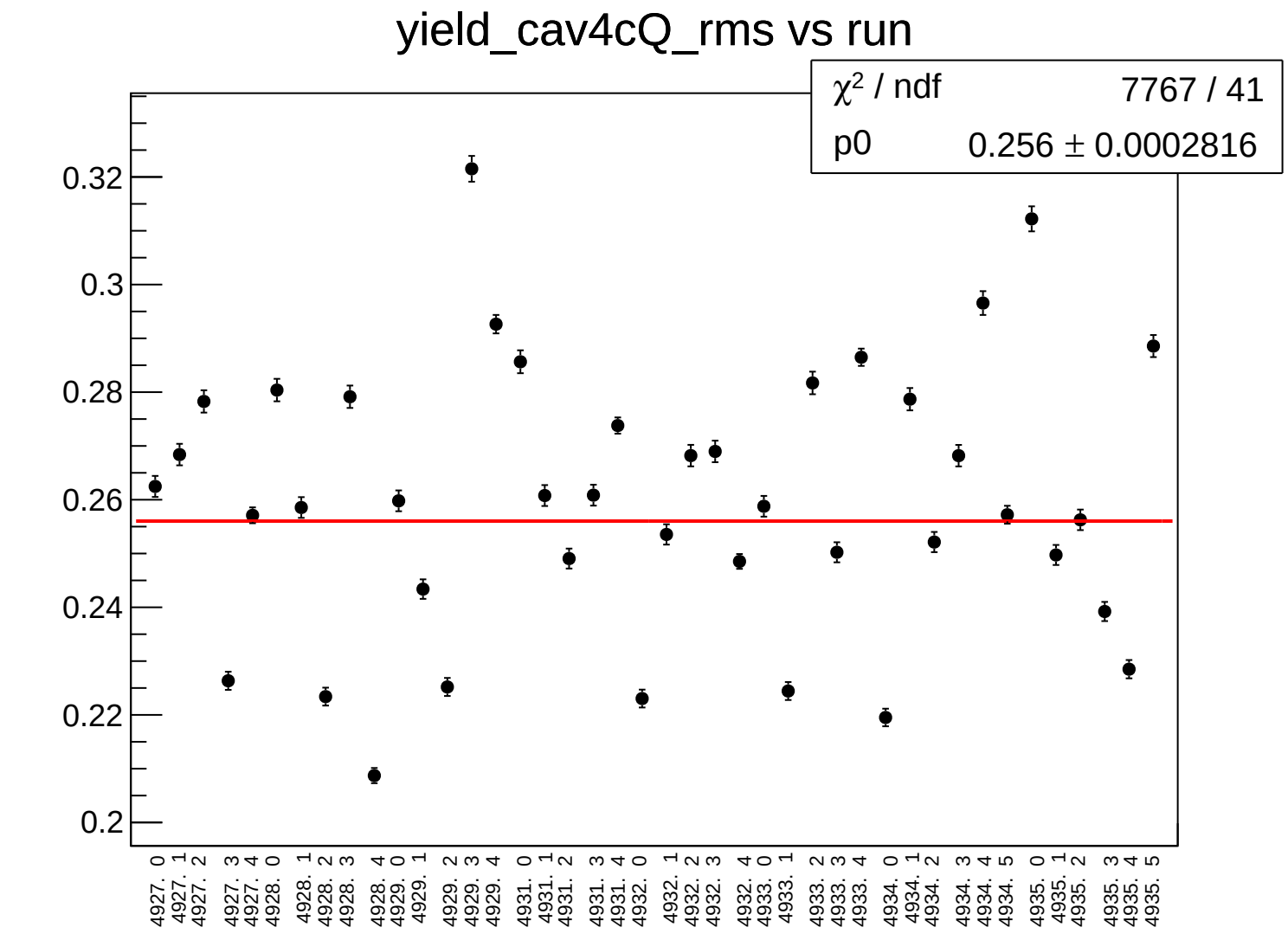

yield_bcm_dg_ds_rms vs run
χ² / ndf 7339 / 41
p0 0.2479 ± 0.0002725
0.32
0.3
0.28
0.26
0.24
0.22
0.2
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

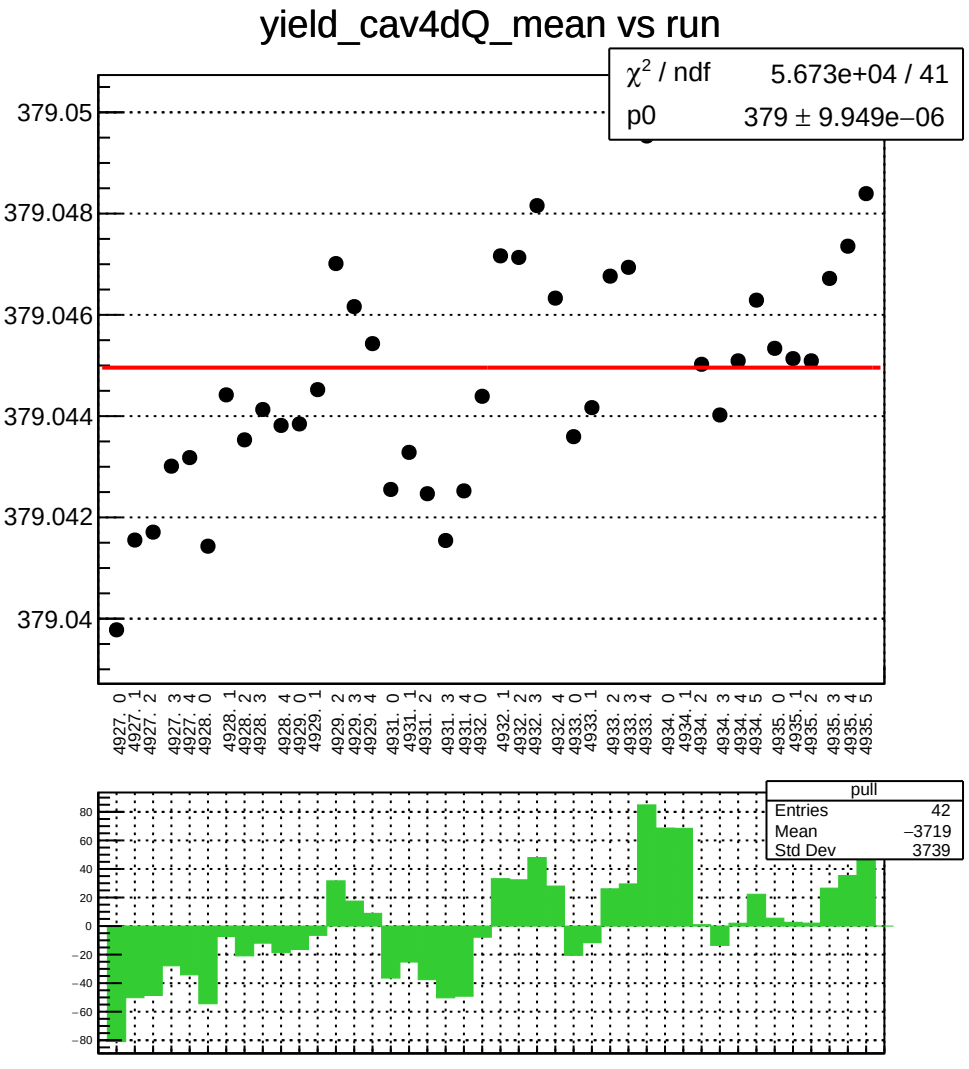

yield_cav4bQ_mean vs run
χ² / ndf 5.571e+04 / 41
p0 402.8 ± 1.031e−05
402.816
402.814
402.812
402.81
402.808
402.806
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −717.9
Std Dev 737
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 42
Mean 0.4367
Std Dev 3.904
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

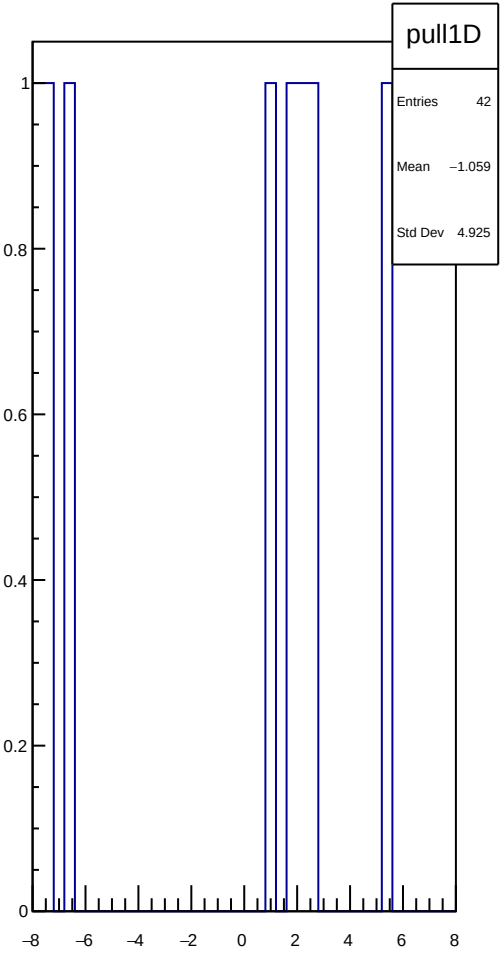

yield_cav4bQ_rms vs run
χ² / ndf 155.5 / 41
p0 0.006662 ± 7.293e−06
0.007
0.0069
0.0068
0.0067
0.0066
0.0065
0.0064
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

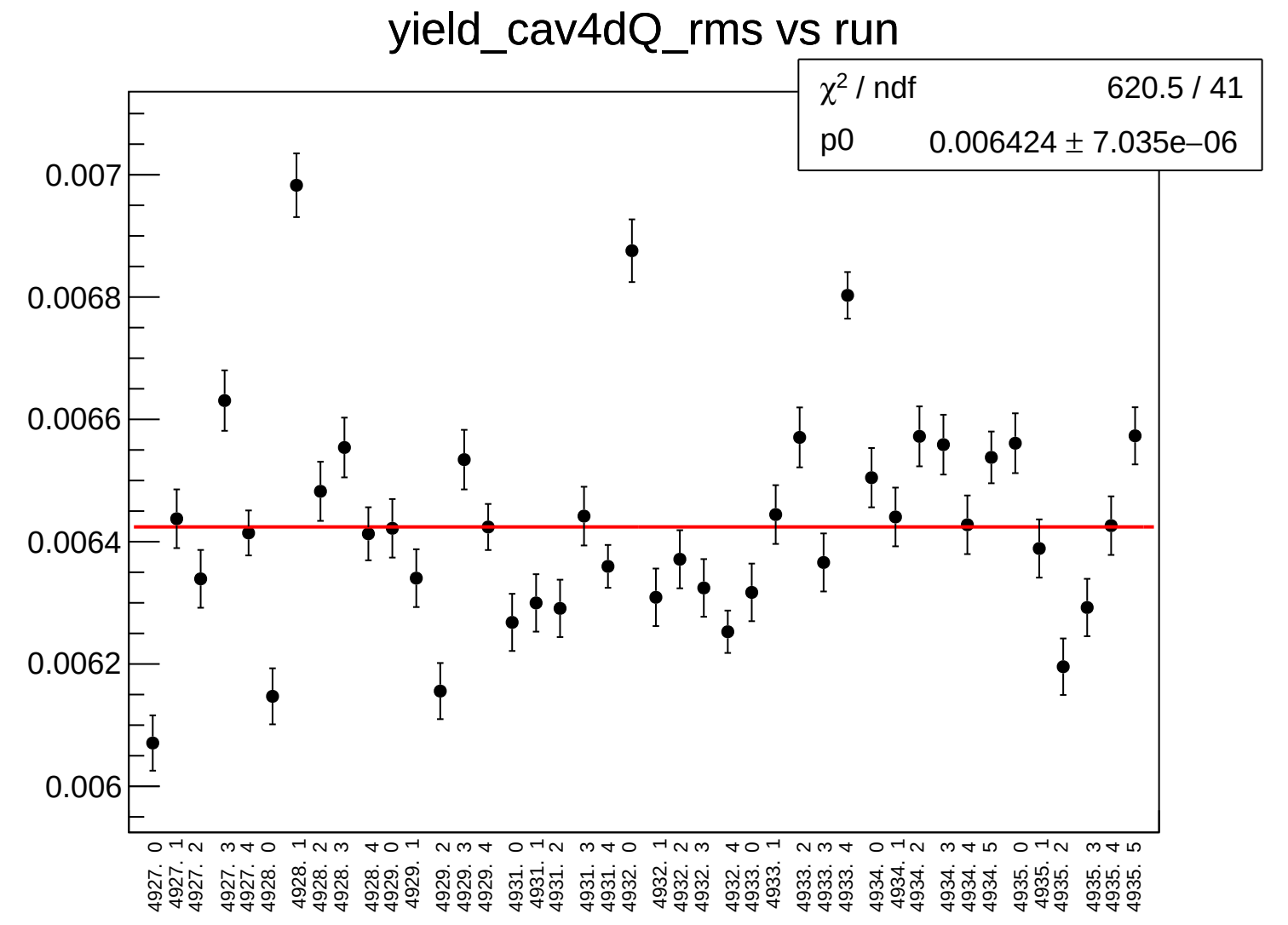

yield_cav4cQ_mean vs run
χ² / ndf 1.343e+05 / 41
p0 86.41± 0.0003982
86.6
86.5
86.4
86.3
86.2
86.1
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 1127
Std Dev 1107
80
60
40
20
0
−20
−40
−60
−80
−100
−120

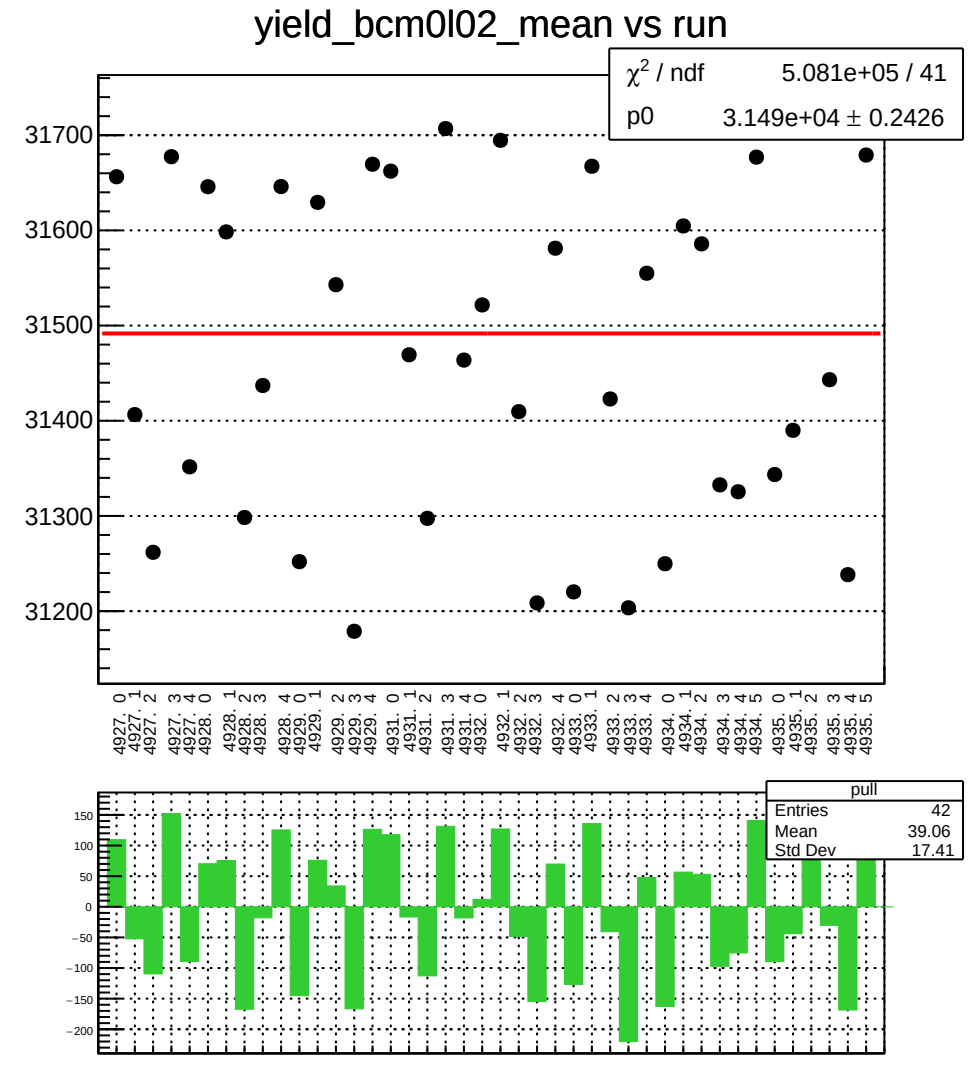

pull1D
Entries 42
Mean −1.343
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

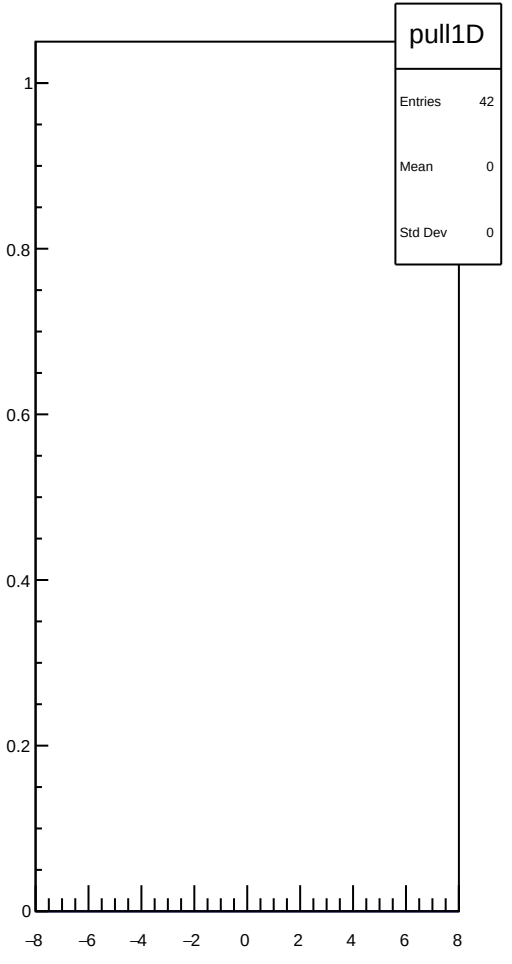

yield_cav4cQ_rms vs run
χ² / ndf 7767 / 41
p0 0.256 ± 0.0002816
0.32
0.3
0.28
0.26
0.24
0.22
0.2
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

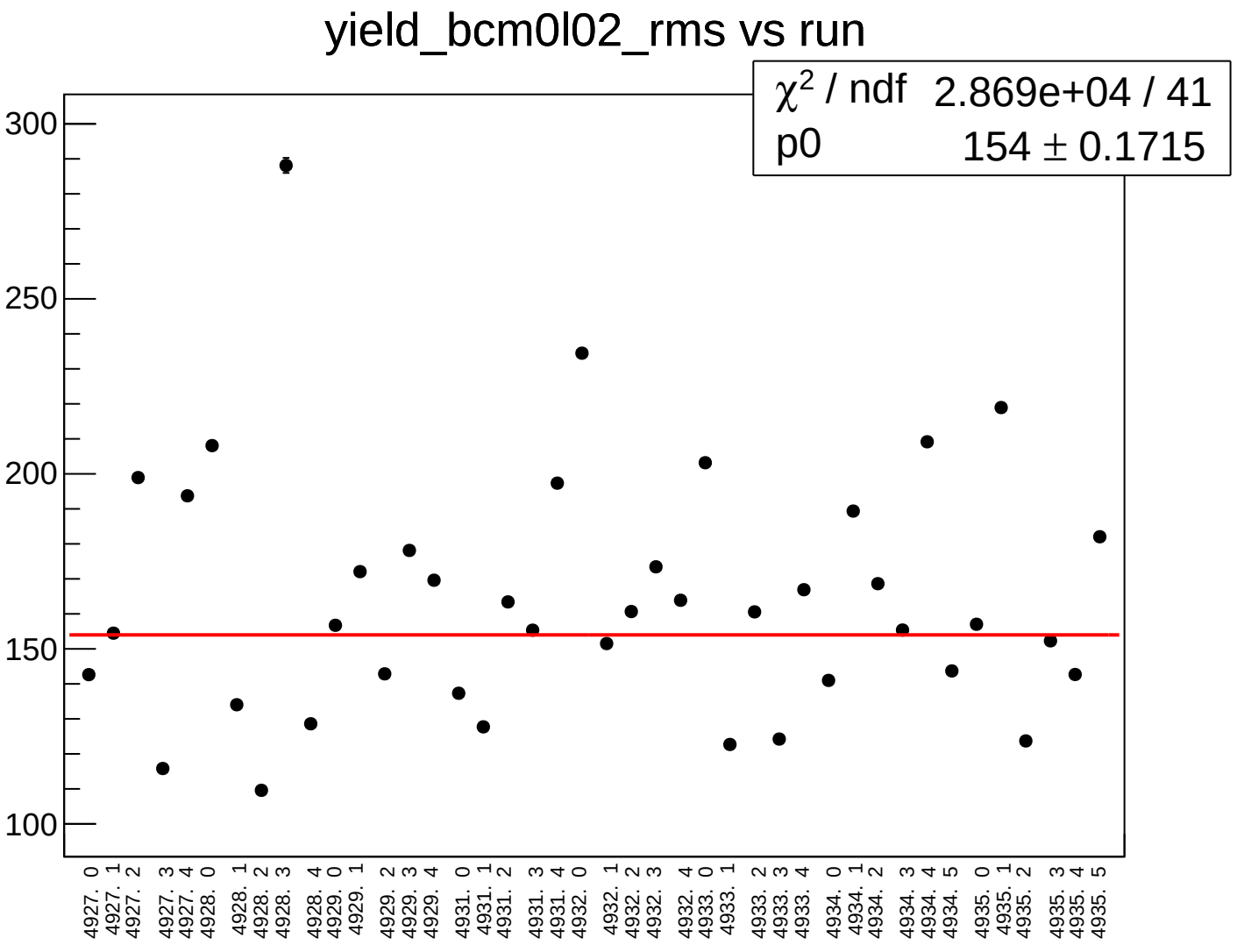

yield_cav4dQ_mean vs run
χ² / ndf 5.673e+04 / 41
p0 379 ± 9.949e−06
379.05
379.048
379.046
379.044
379.042
379.04
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −3719
Std Dev 3739
80
60
40
20
0
−20
−40
−60
−80

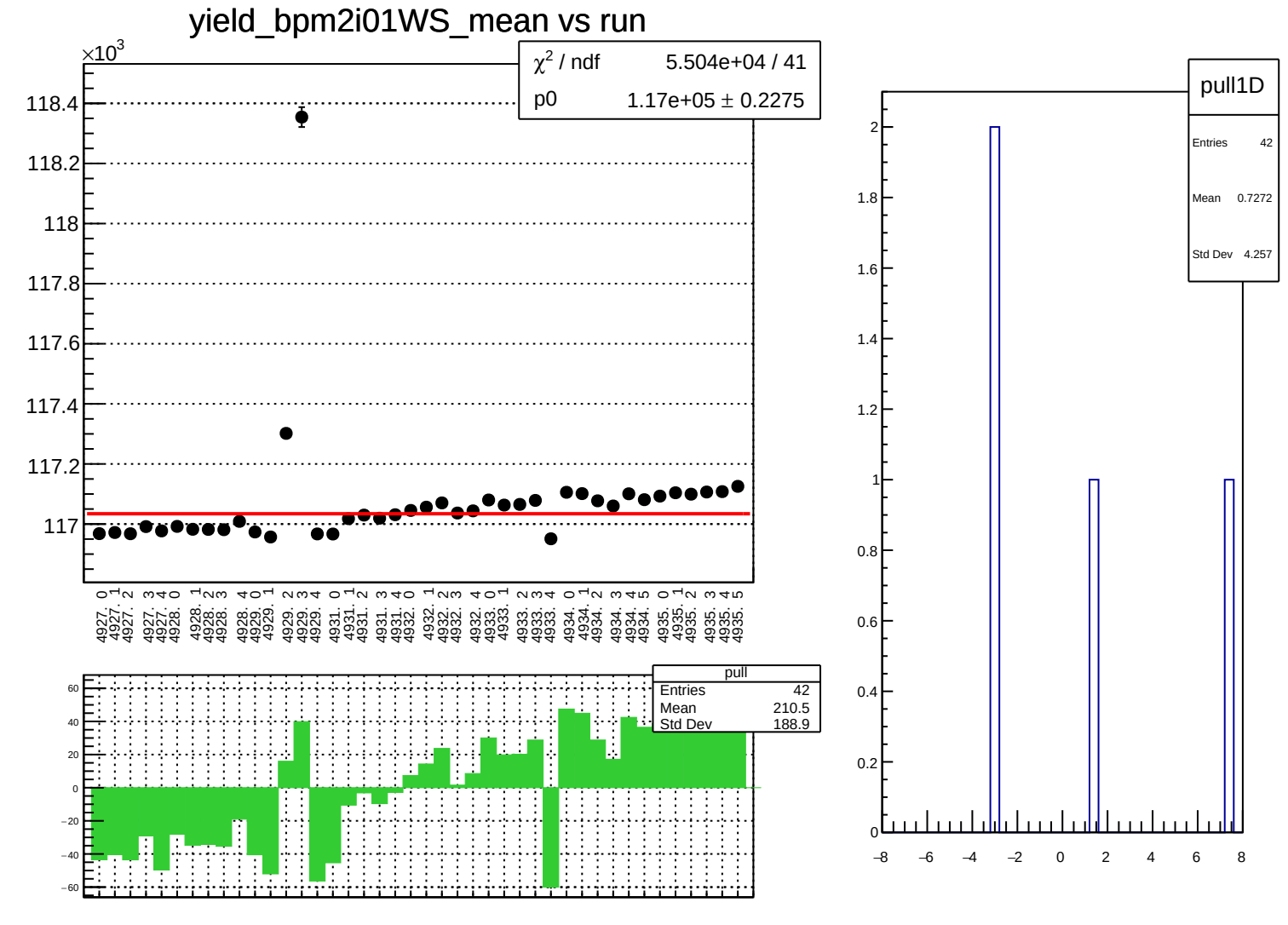

pull1D
Entries 42
Mean −1.059
Std Dev 4.925
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

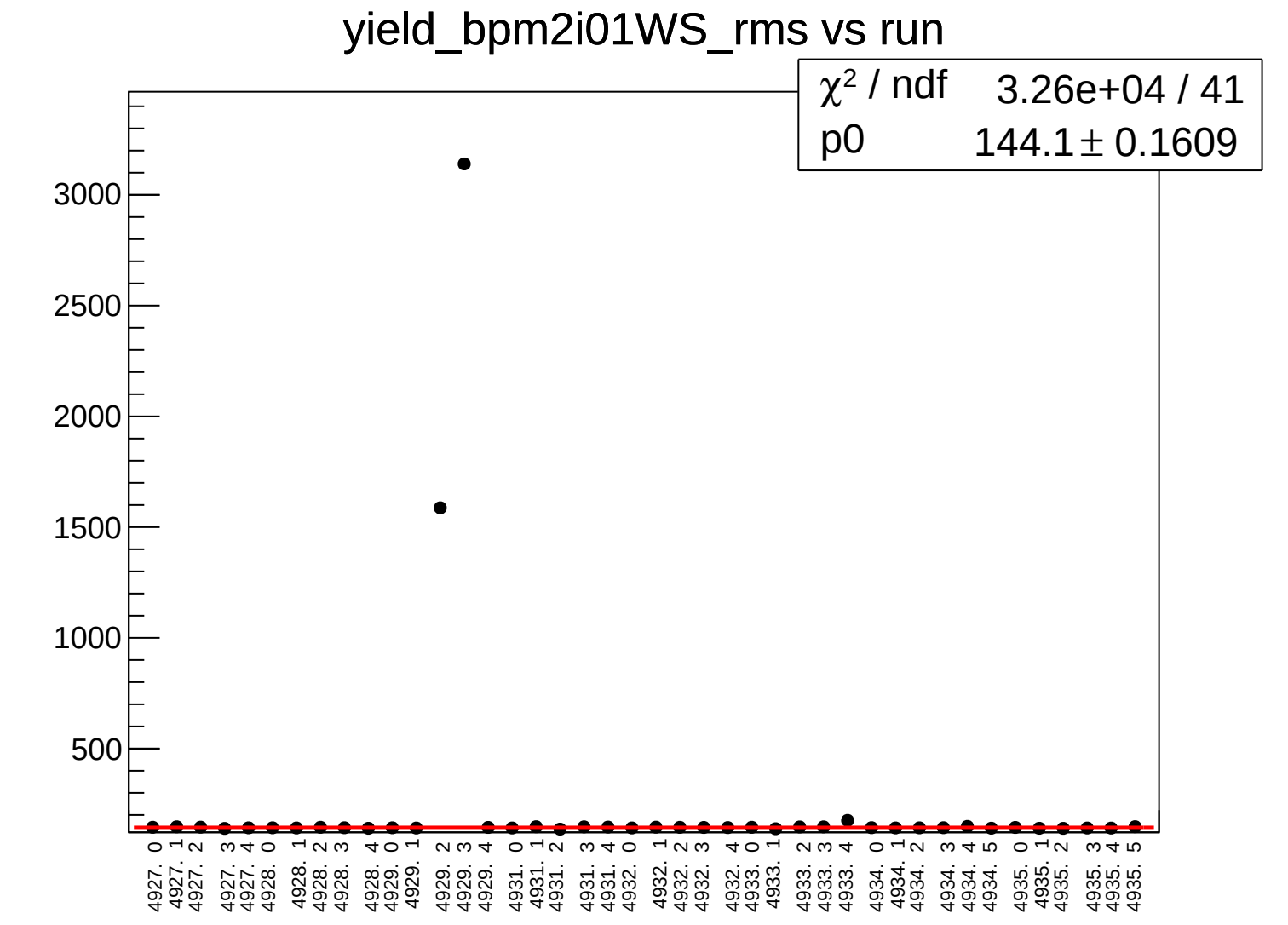

yield_cav4dQ_rms vs run
χ² / ndf 620.5 / 41
p0 0.006424 ± 7.035e−06
0.007
0.0068
0.0066
0.0064
0.0062
0.006
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

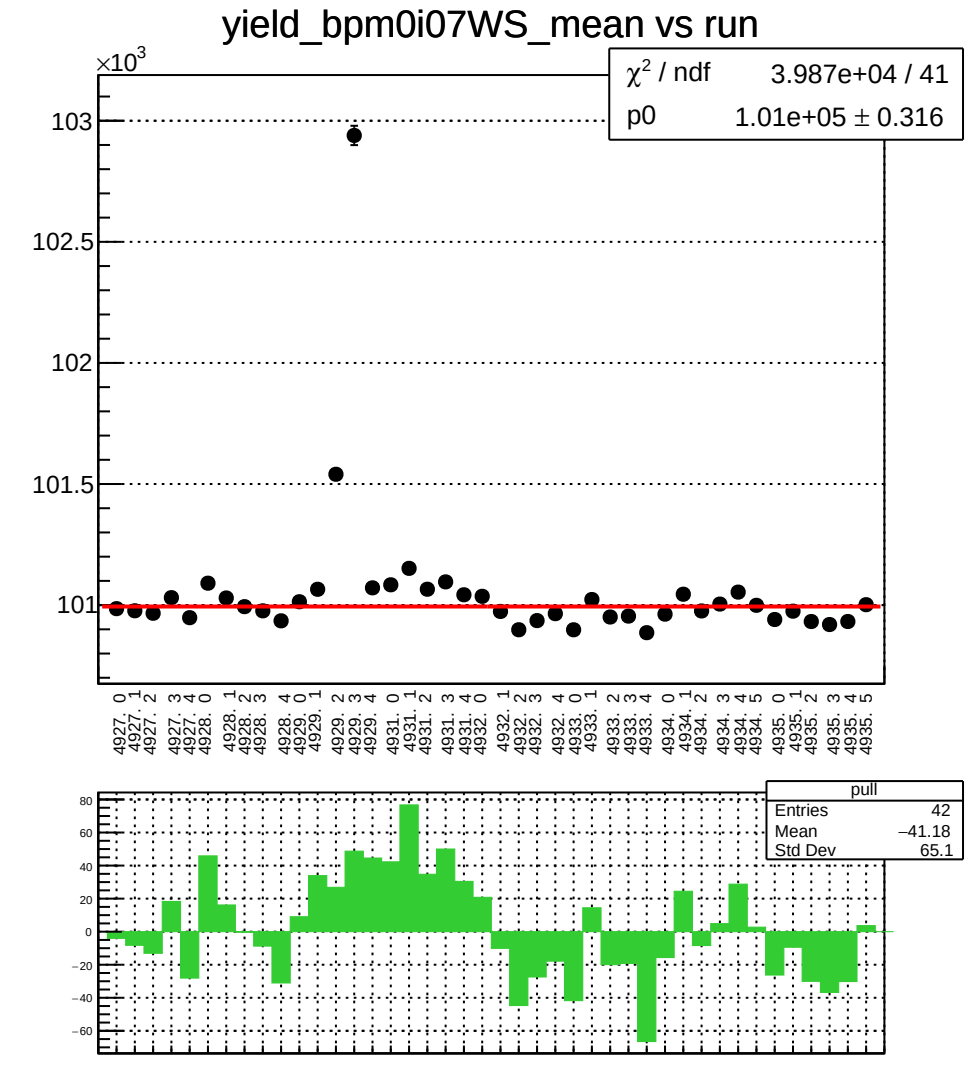

yield_bcm0l02_mean vs run
χ² / ndf 5.081e+05 / 41
p0 3.149e+04 ± 0.2426
31700
31600
31500
31400
31300
31200
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 39.06
Std Dev 17.41
150
100
50
0
−50
−100
−150
−200

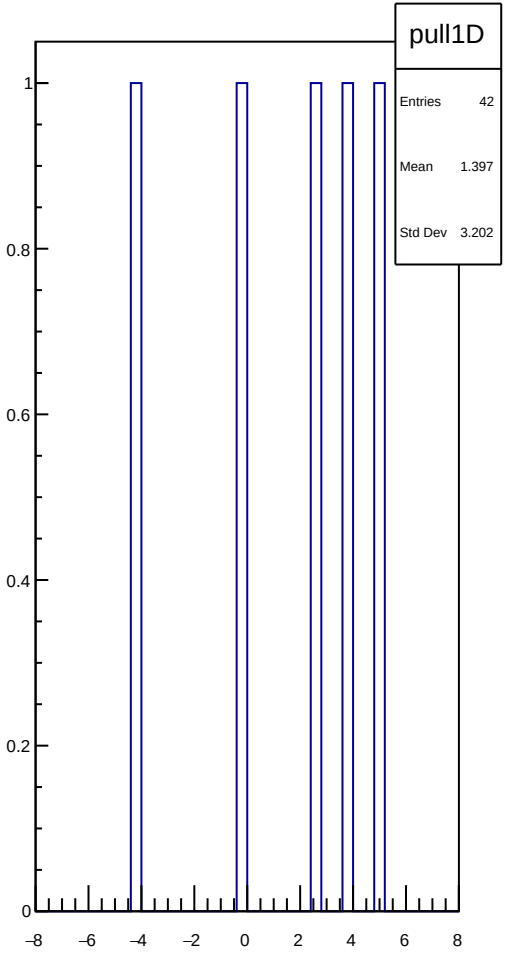

pull1D
Entries 42
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

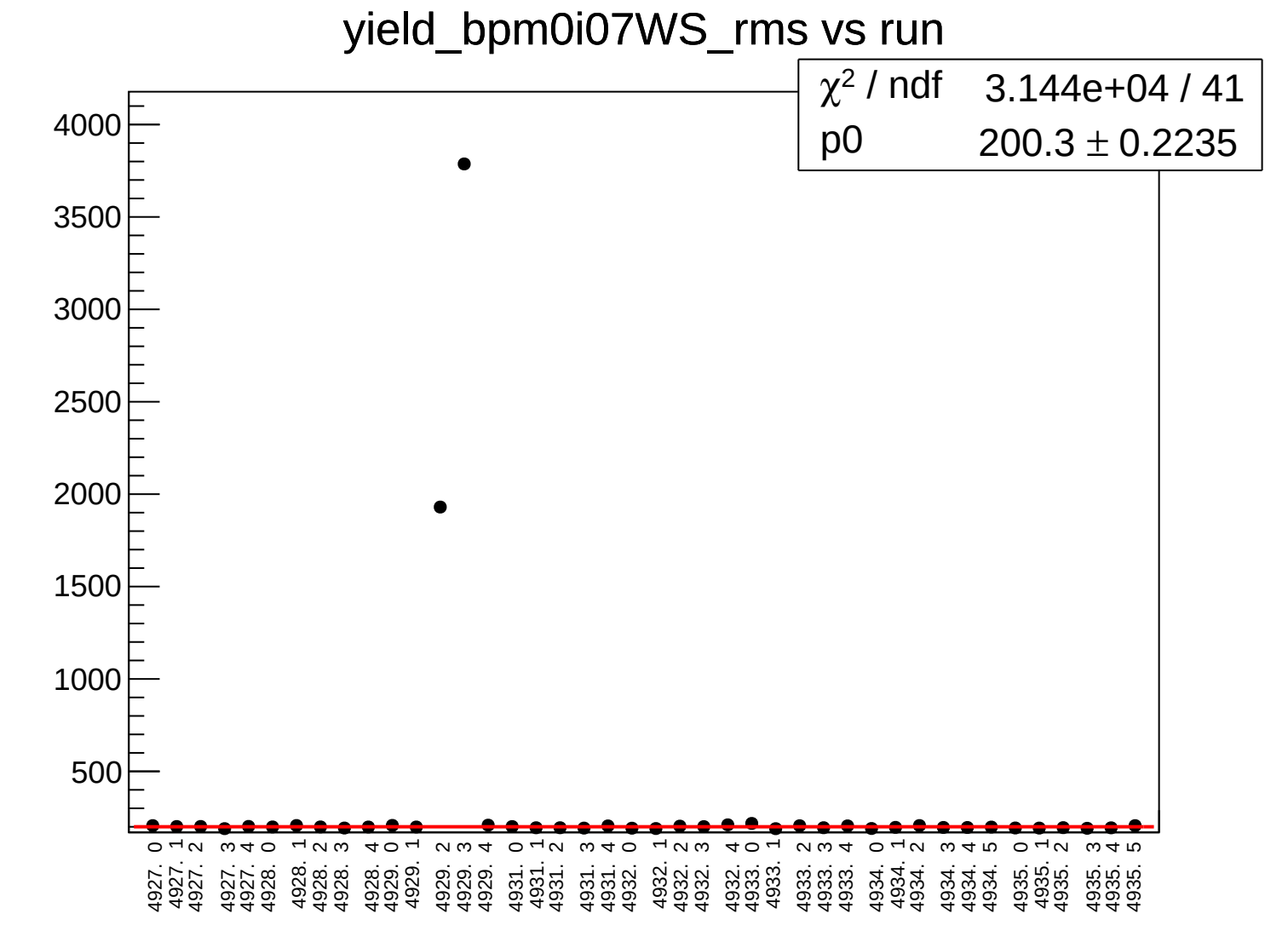

yield_bcm0l02_rms vs run
χ² / ndf 2.869e+04 / 41
p0 154 ± 0.1715
300
250
200
150
100
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

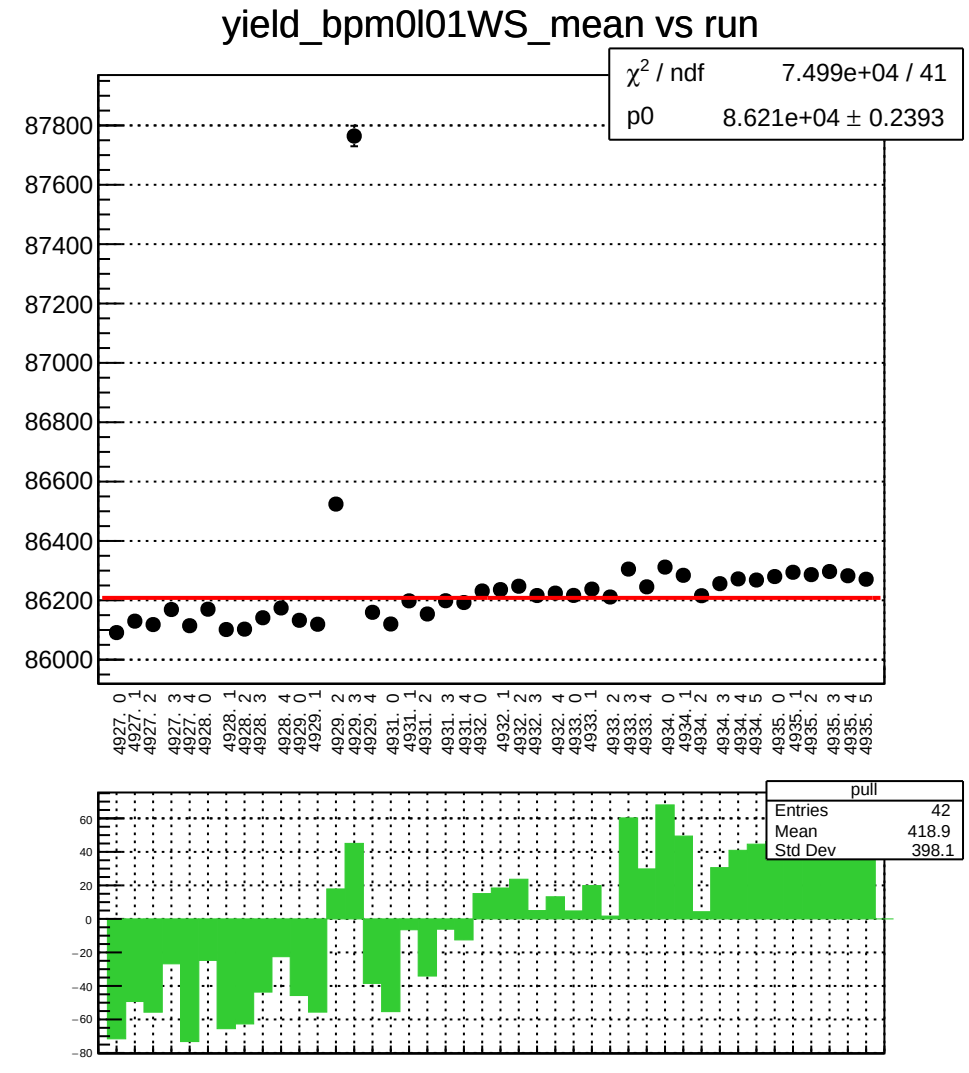

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 5.504e+04 / 41
p0 1.17e+05 ± 0.2275
118.4
118.2
118
117.8
117.6
117.4
117.2
117
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 210.5
Std Dev 188.9
60
40
20
0
−20
−40
−60
pull1D
Entries 42
Mean 0.7272
Std Dev 4.257
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

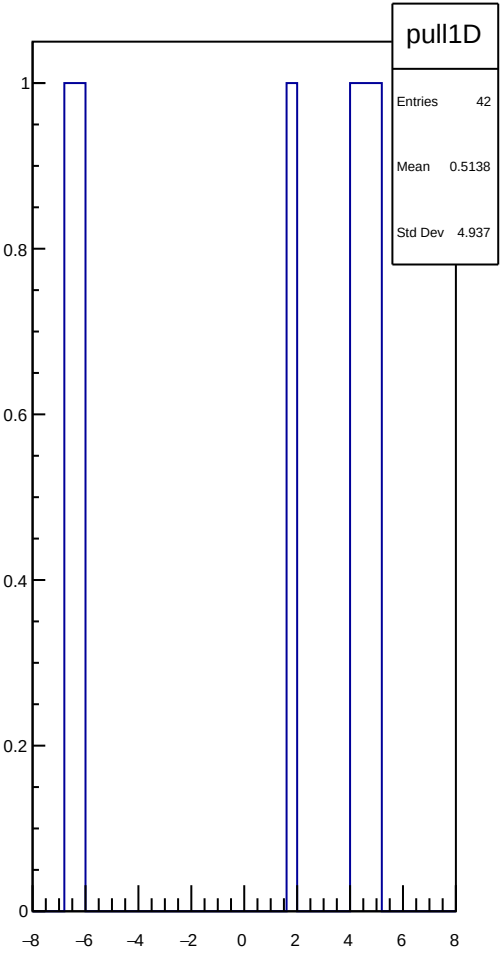

yield_bpm2i01WS_rms vs run
χ² / ndf 3.26e+04 / 41
p0 144.1 ± 0.1609
3000
2500
2000
1500
1000
500
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

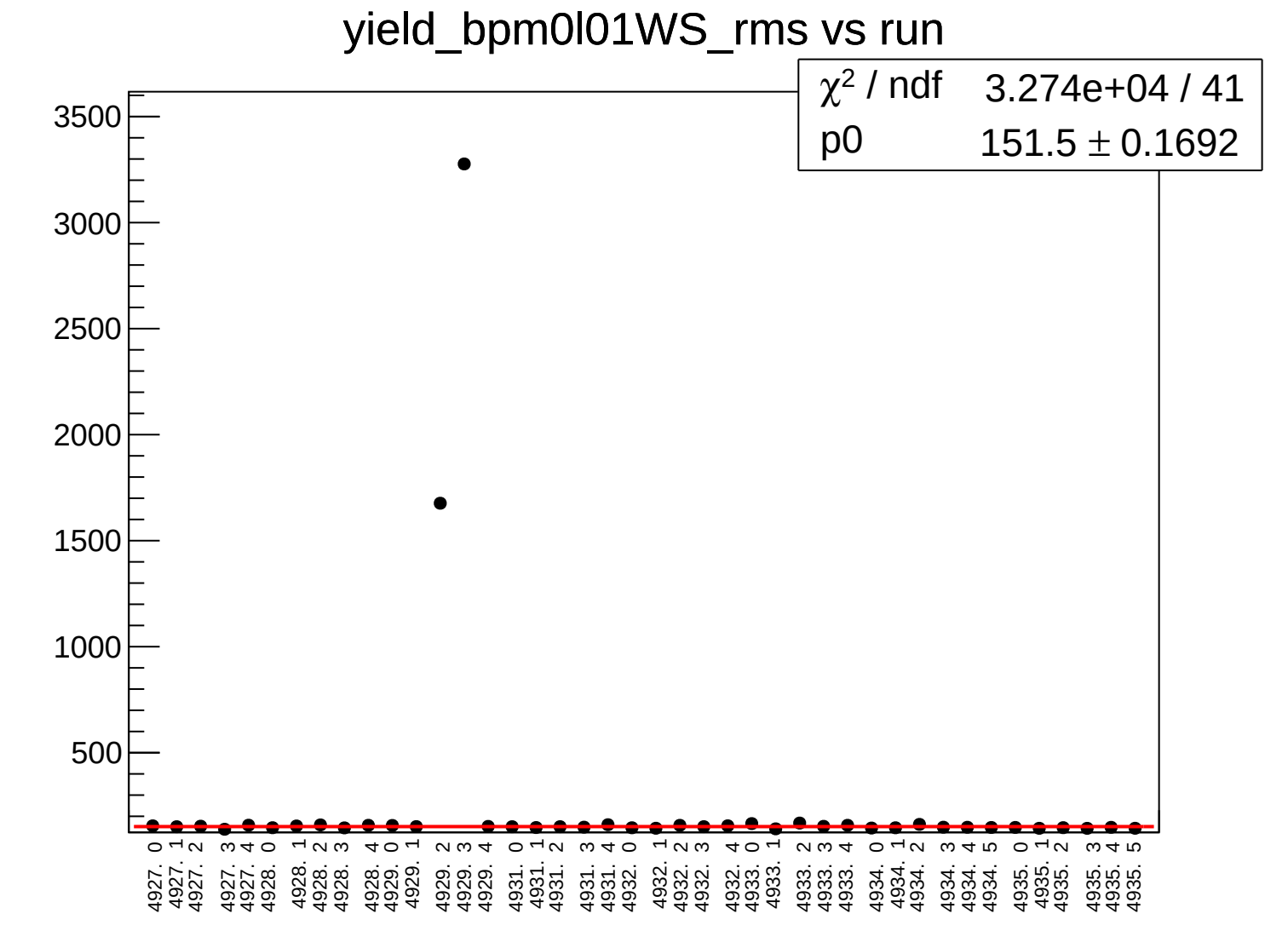

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 3.987e+04 / 41
p0 1.01e+05 ± 0.316
103
102.5
102
101.5
101
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −41.18
Std Dev 65.1
80
60
40
20
0
−20
−40
−60

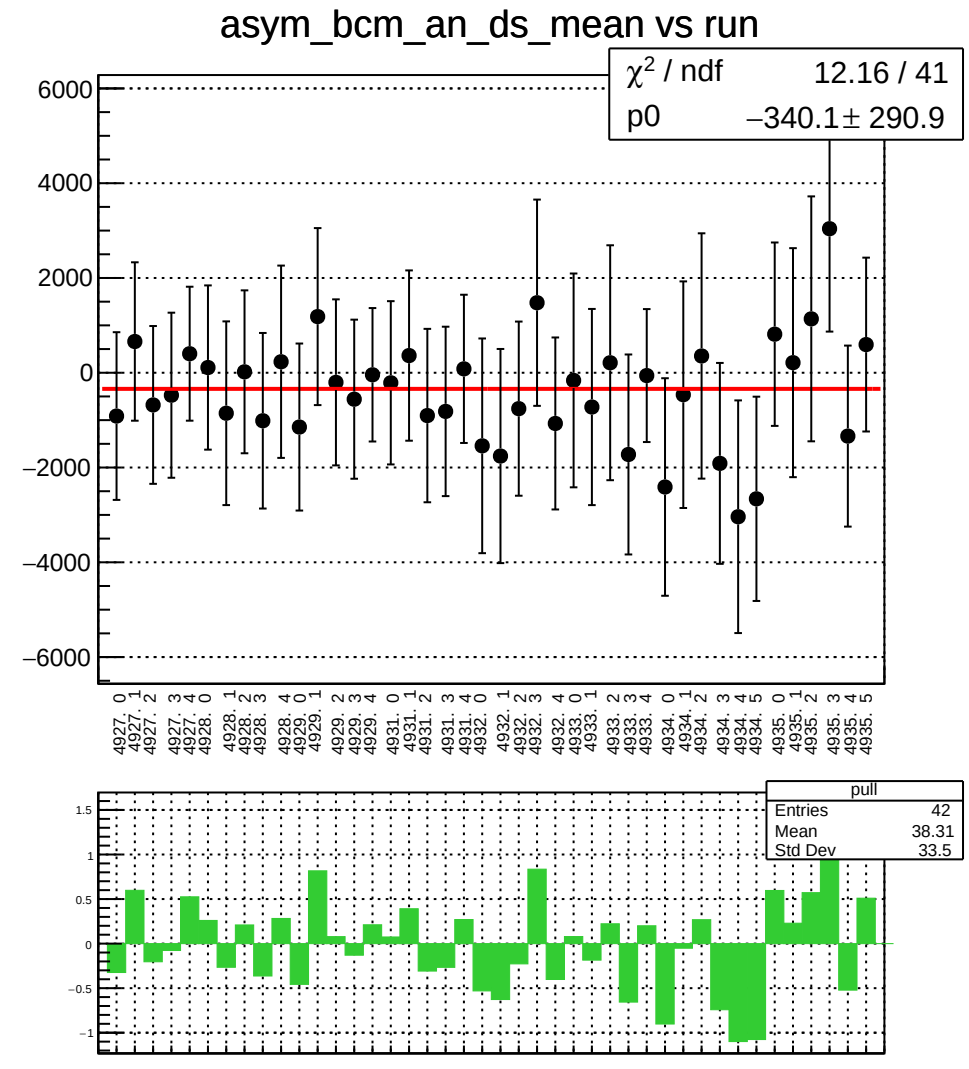

pull1D
Entries 42
Mean 1.397
Std Dev 3.202
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

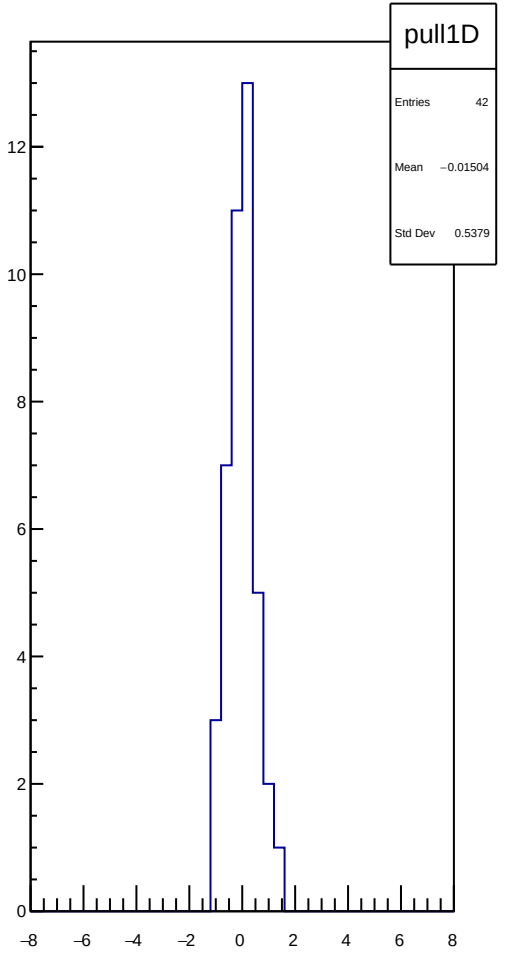

yield_bpm0i07WS_rms vs run
χ² / ndf 3.144e+04 / 41
p0 200.3 ± 0.2235
4000
3500
3000
2500
2000
1500
1000
500
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

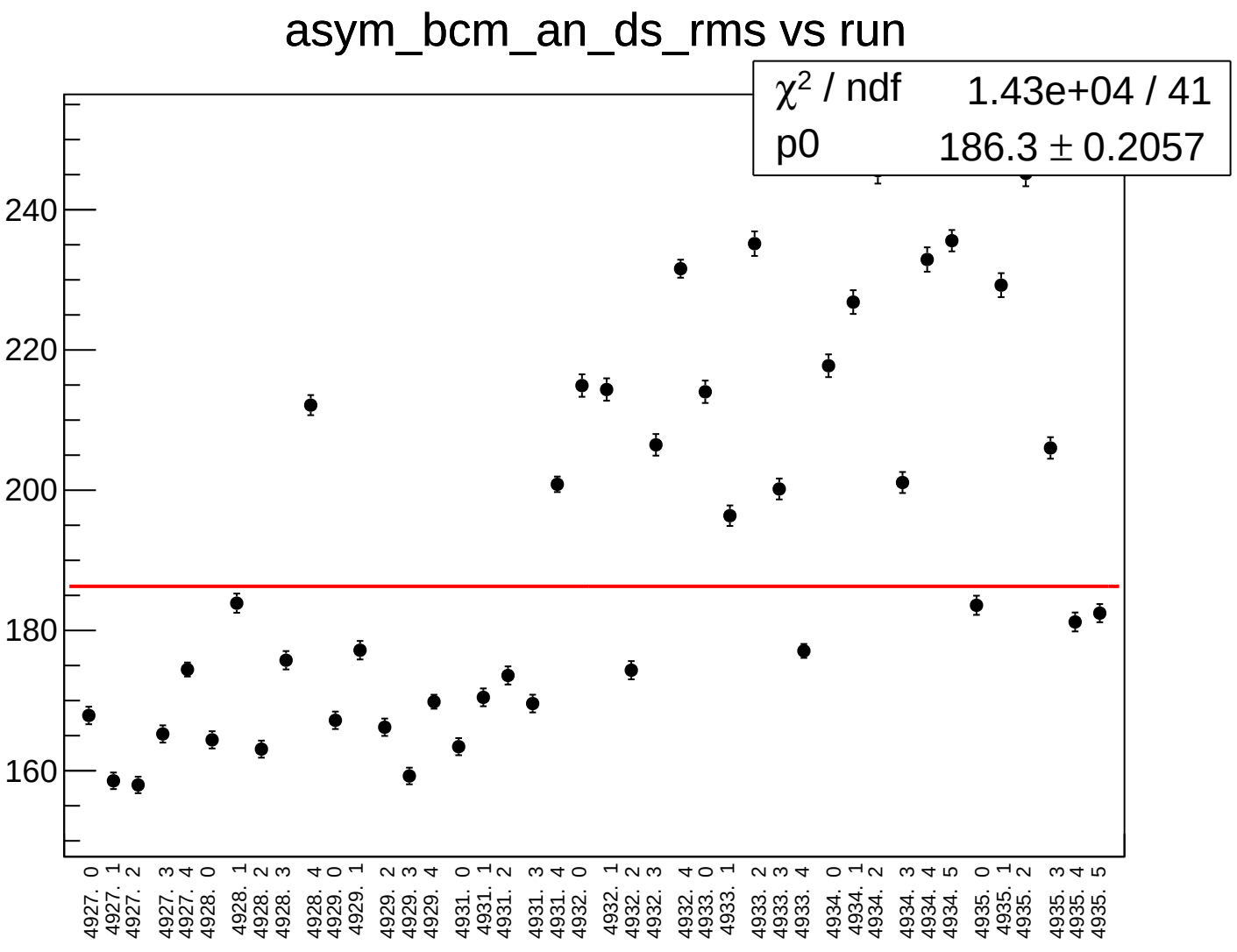

yield_bpm0l01WS_mean vs run
χ² / ndf 7.499e+04 / 41
p0 8.621e+04 ± 0.2393
87800
87600
87400
87200
87000
86800
86600
86400
86200
86000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 418.9
Std Dev 398.1
60
40
20
0
−20
−40
−60
−80

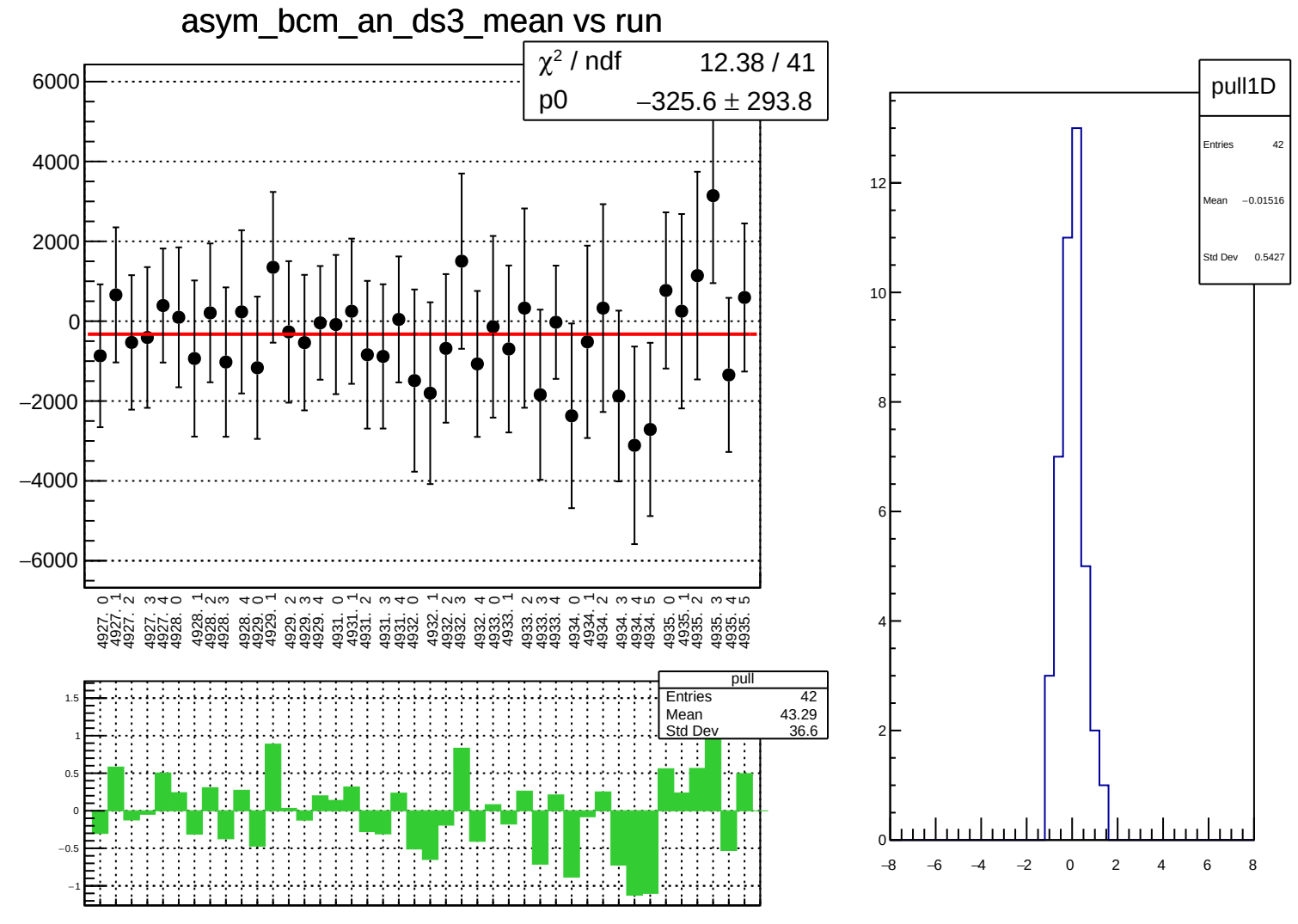

pull1D
Entries 42
Mean 0.5138
Std Dev 4.937
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

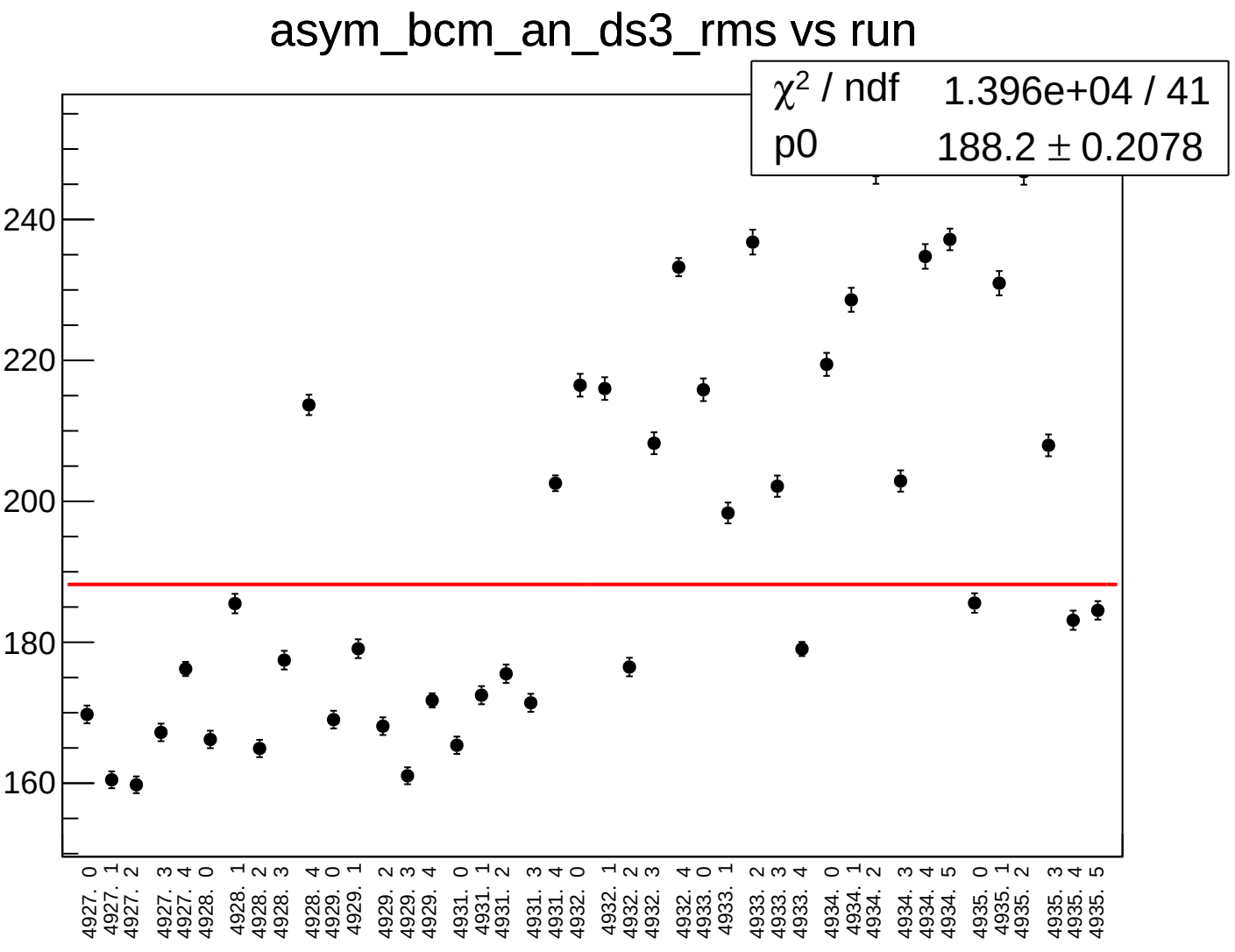

yield_bpm0l01WS_rms vs run
χ² / ndf 3.274e+04 / 41
p0 151.5 ± 0.1692
3500
3000
2500
2000
1500
1000
500
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

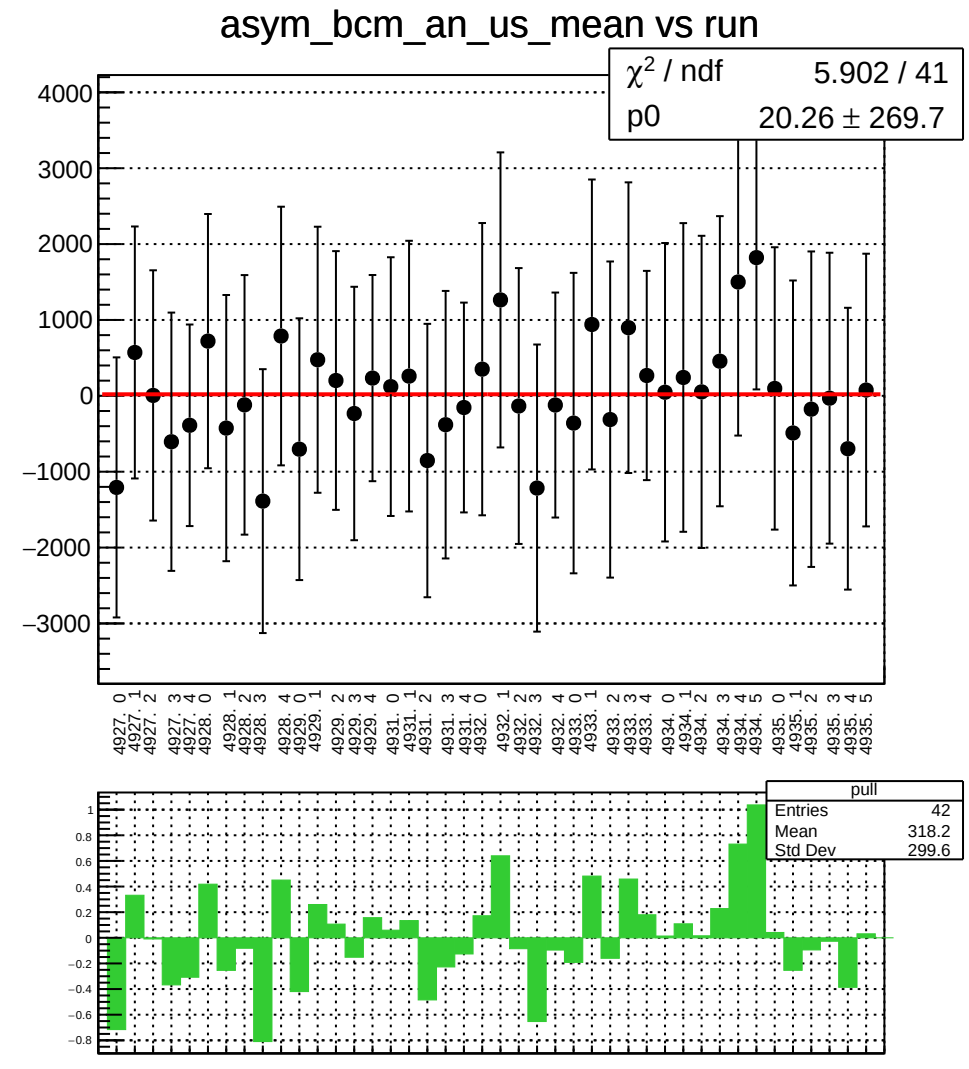

asym_bcm_an_ds_mean vs run
χ² / ndf 12.16 / 41
p0 −340.1± 290.9
6000
4000
2000
0
−2000
−4000
−6000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 38.31
Std Dev 33.5
1.5
1
0.5
0
−0.5
−1

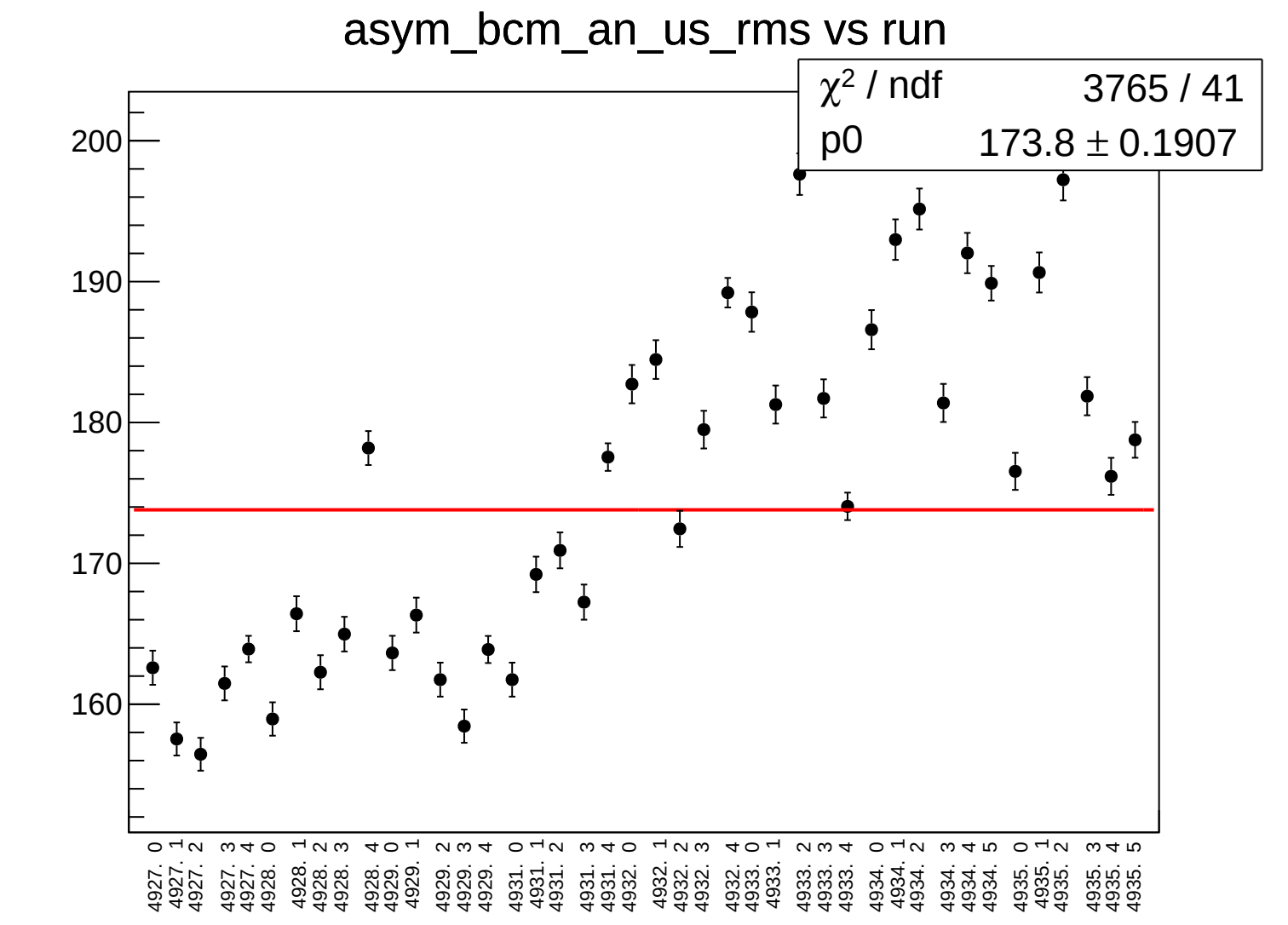

pull1D
Entries 42
Mean −0.01504
Std Dev 0.5379
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

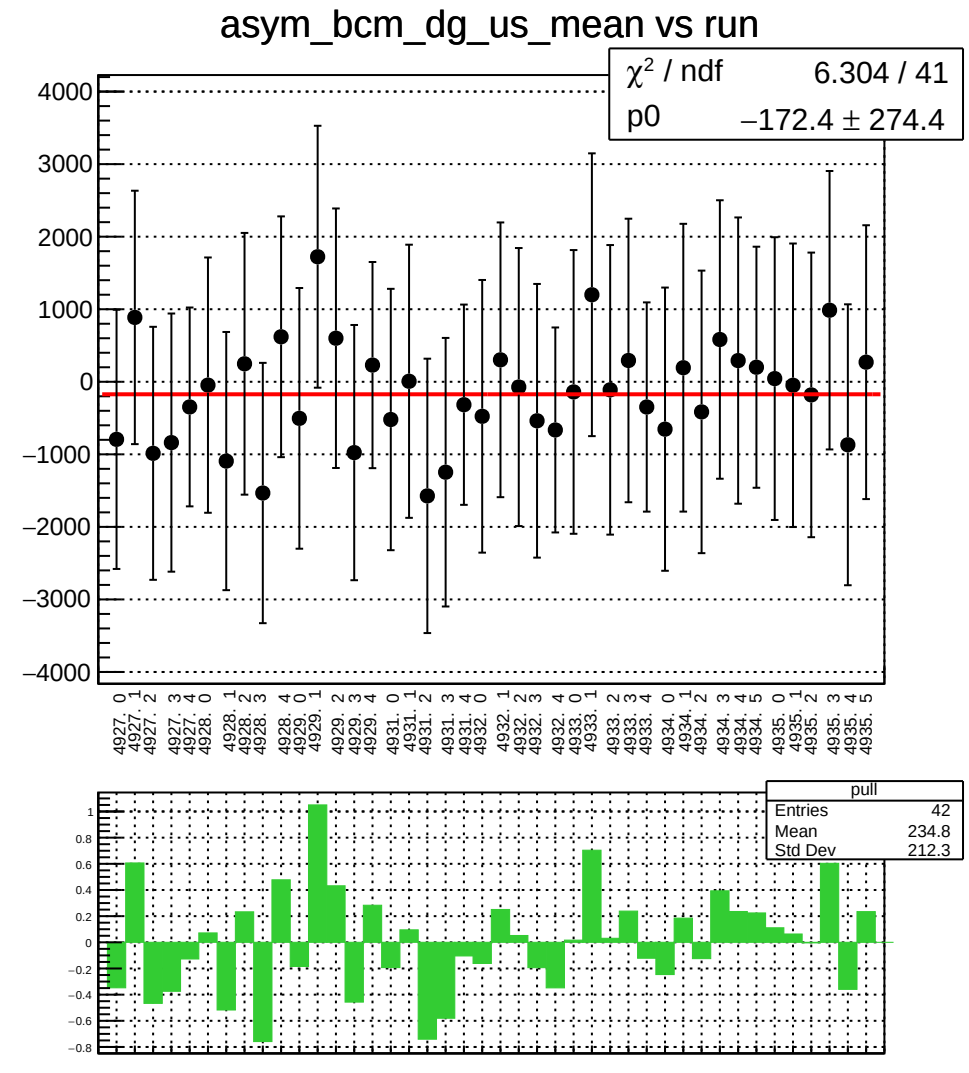

asym_bcm_an_ds_rms vs run
χ² / ndf 1.43e+04 / 41
p0 186.3 ± 0.2057
240
220
200
180
160
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

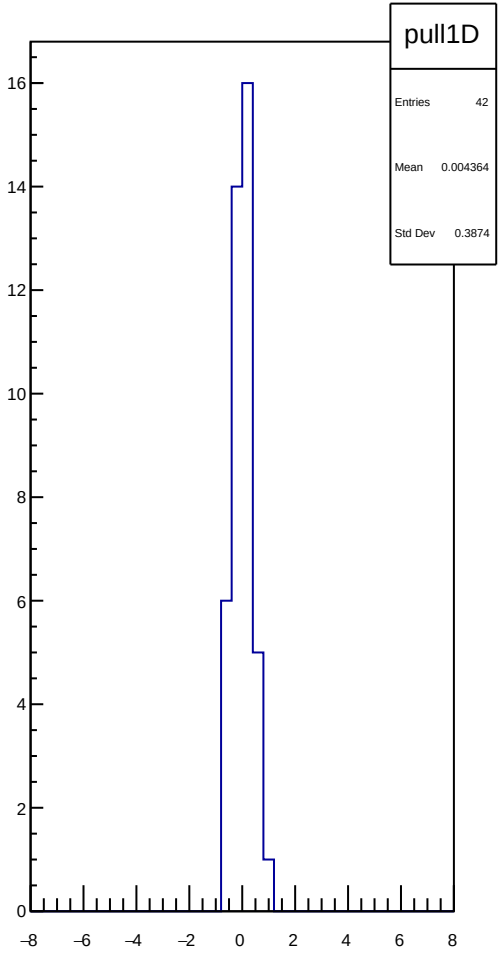

asym_bcm_an_ds3_mean vs run
χ² / ndf 12.38 / 41
p0 −325.6 ± 293.8
6000
4000
2000
0
−2000
−4000
−6000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 43.29
Std Dev 36.6
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 42
Mean −0.01516
Std Dev 0.5427
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

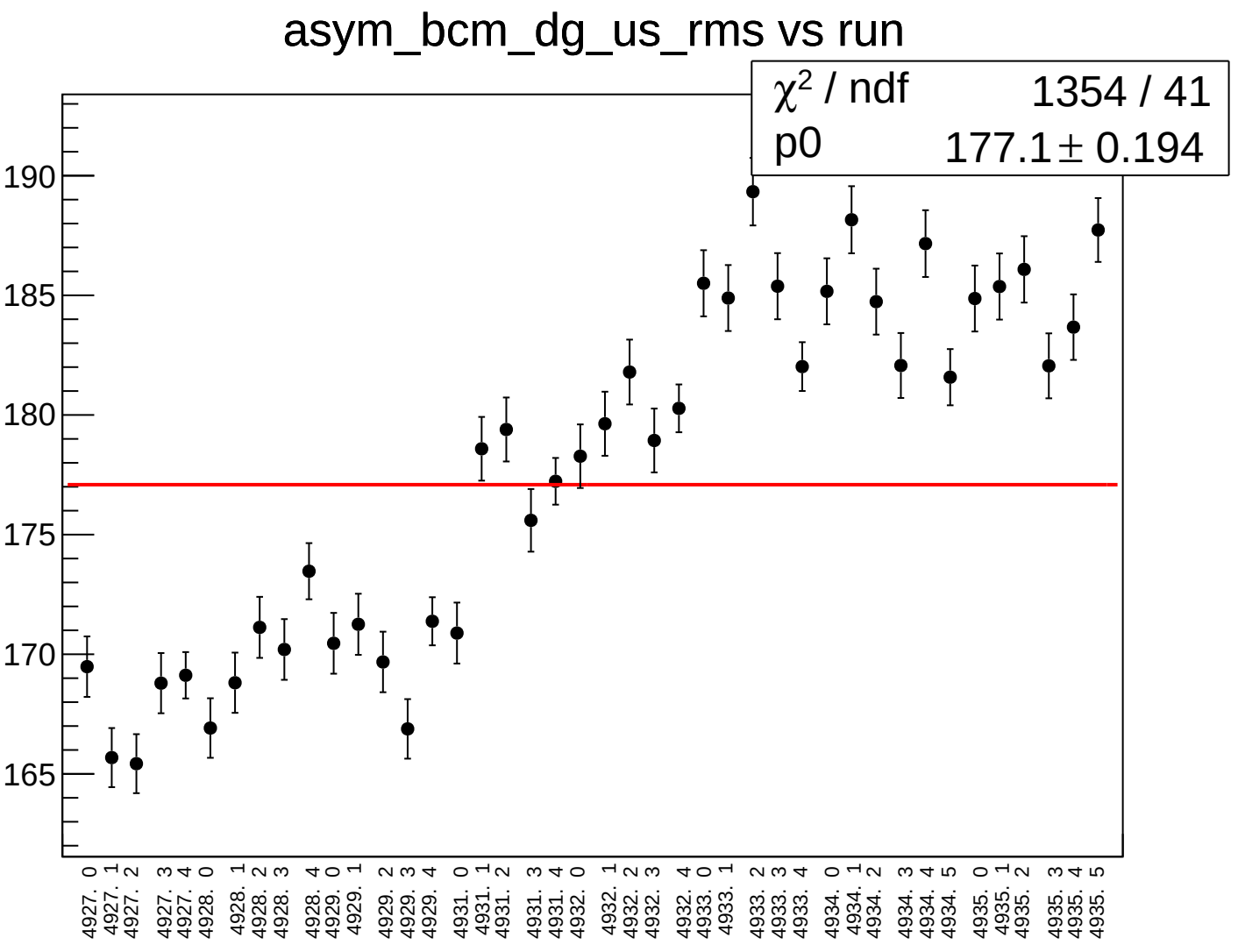

asym_bcm_an_ds3_rms vs run
χ² / ndf 1.396e+04 / 41
p0 188.2 ± 0.2078
240
220
200
180
160
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

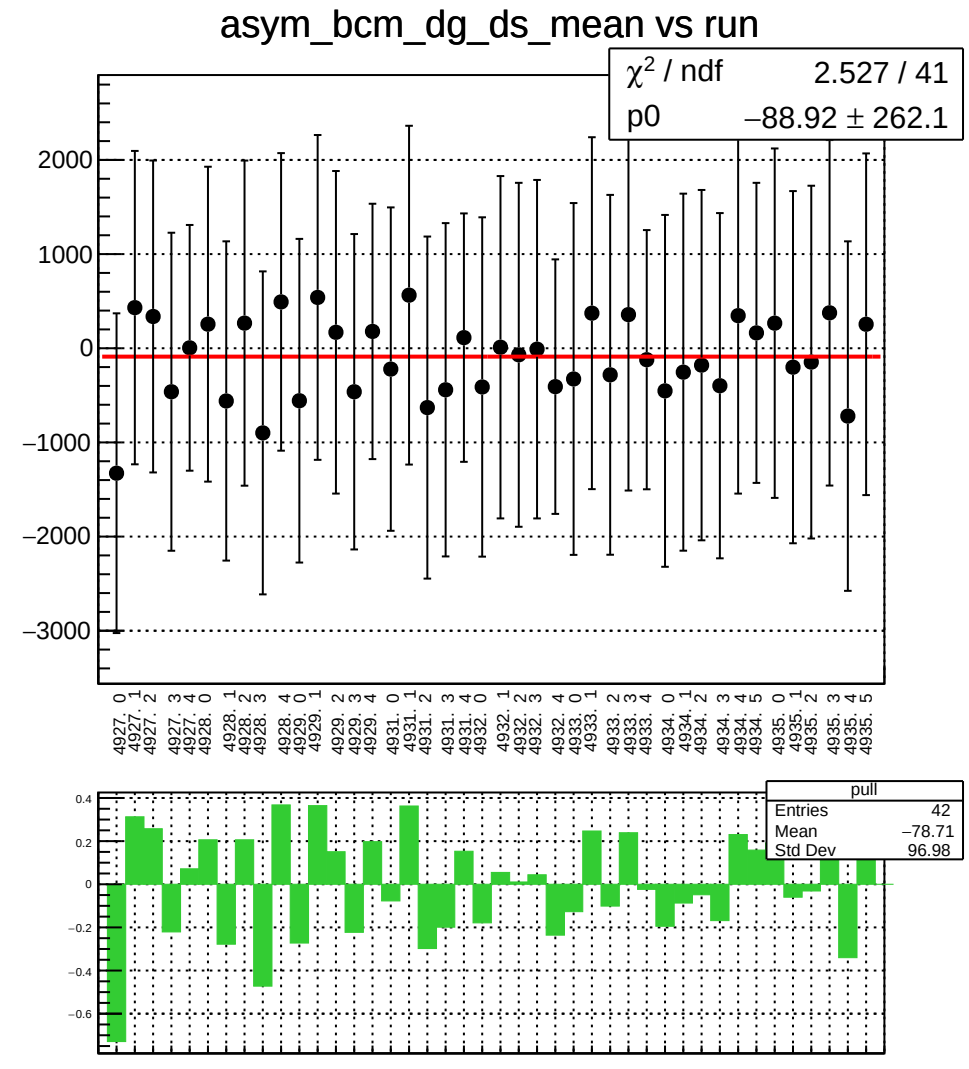

asym_bcm_an_us_mean vs run
χ² / ndf 5.902 / 41
p0 20.26 ± 269.7
4000
3000
2000
1000
0
−1000
−2000
−3000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 318.2
Std Dev 299.6
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 42
Mean 0.003707
Std Dev 0.3748
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

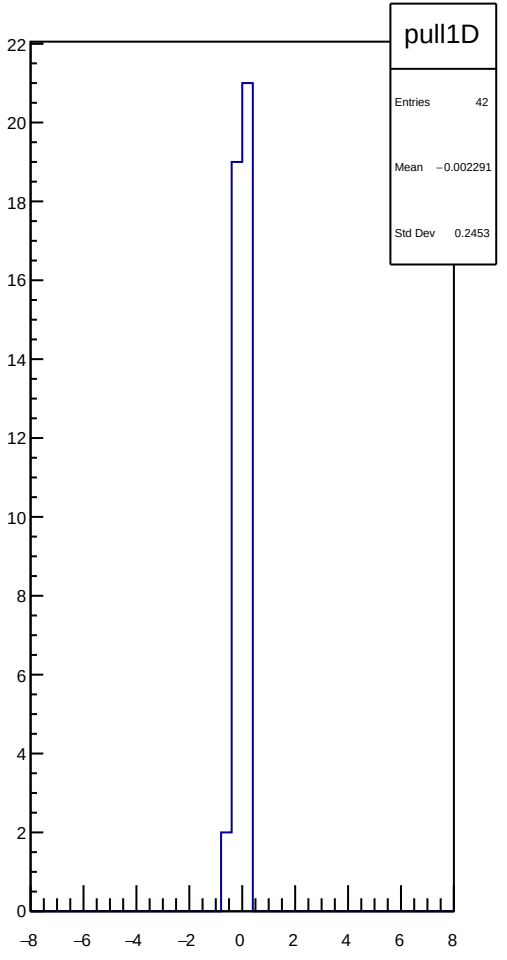

asym_bcm_an_us_rms vs run
χ² / ndf 3765 / 41
p0 173.8 ± 0.1907
200
190
180
170
160
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

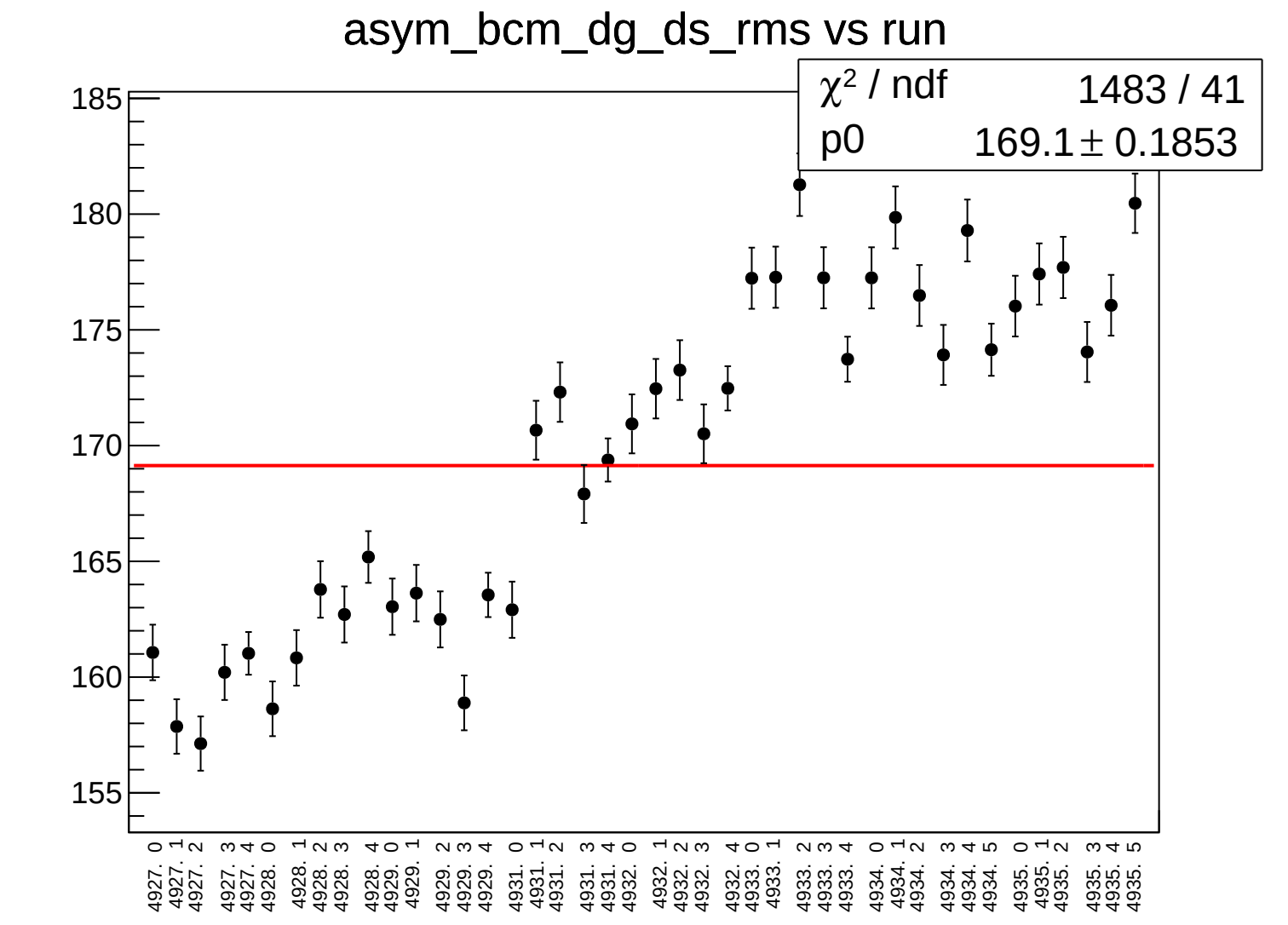

asym_bcm_dg_us_mean vs run
χ² / ndf 6.304 / 41
p0 −172.4 ± 274.4
pull
Entries 42
Mean 234.8
Std Dev 212.3

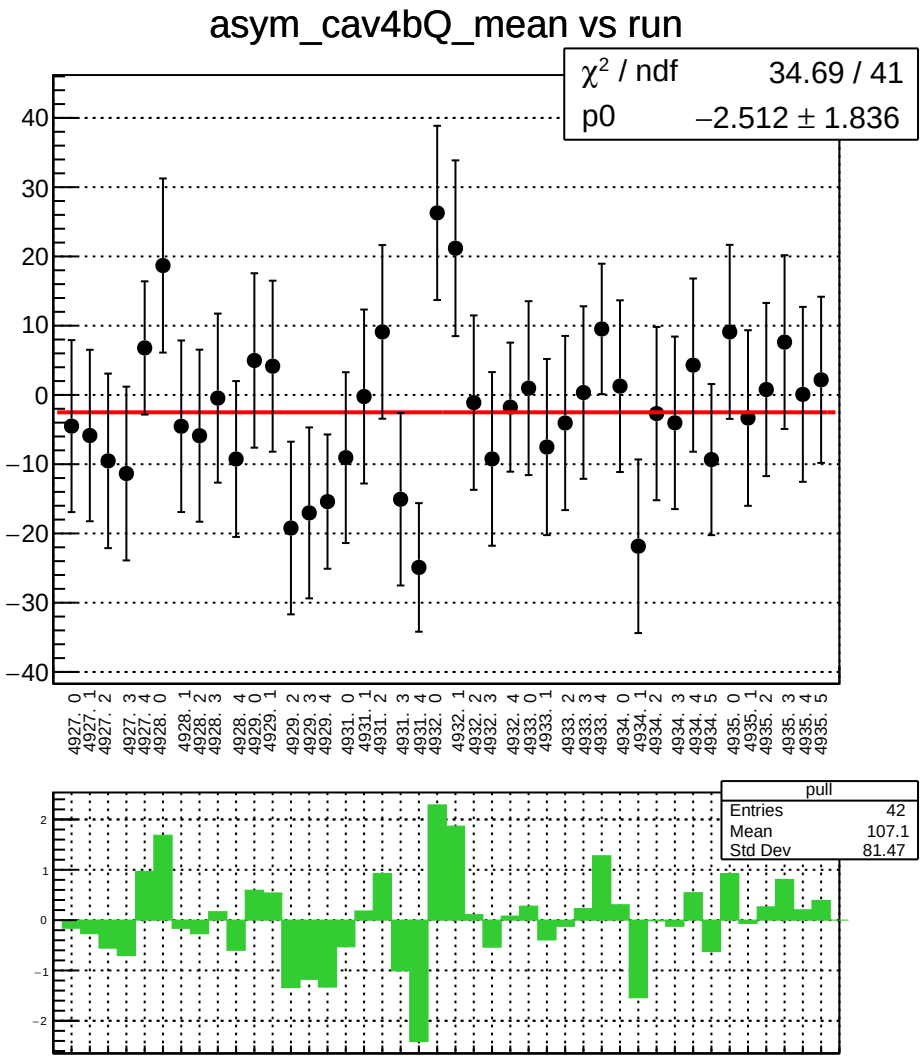

pull1D
Entries 42
Mean 0.004364
Std Dev 0.3874

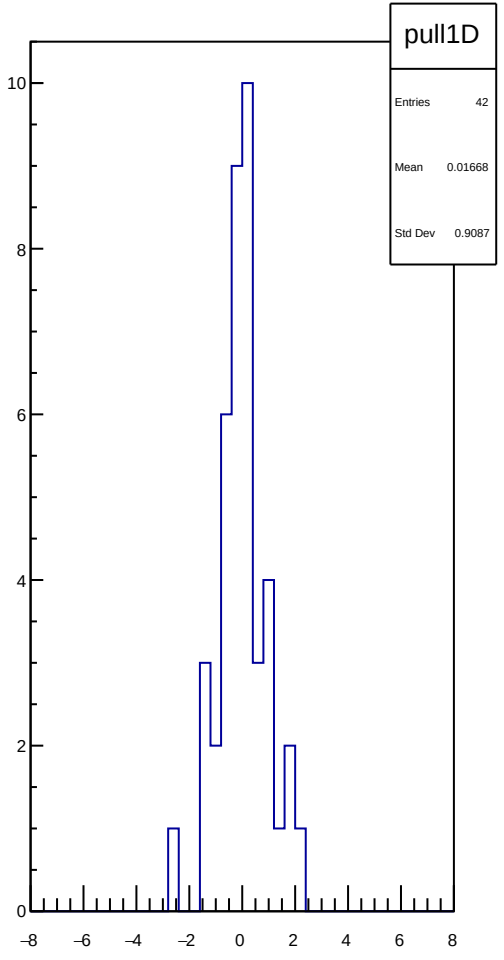

asym_bcm_dg_us_rms vs run
χ² / ndf 1354 / 41
p0 177.1 ± 0.194
190
185
180
175
170
165
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

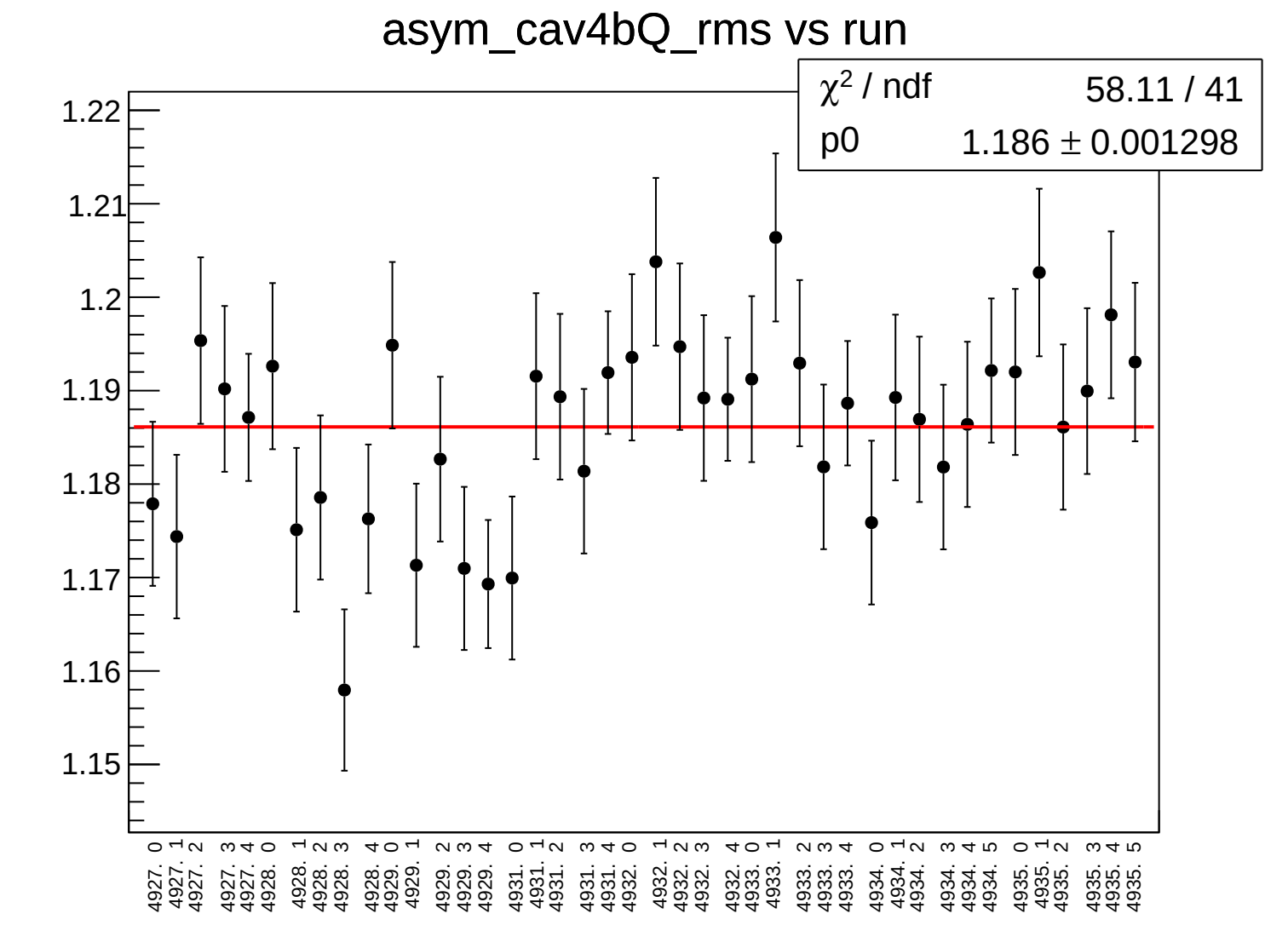

asym_bcm_dg_ds_mean vs run
χ² / ndf 2.527 / 41
p0 −88.92 ± 262.1
2000
1000
0
−1000
−2000
−3000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935.
pull
Entries 42
Mean −78.71
Std Dev 96.98
0.4
0.2
0
−0.2
−0.4
−0.6

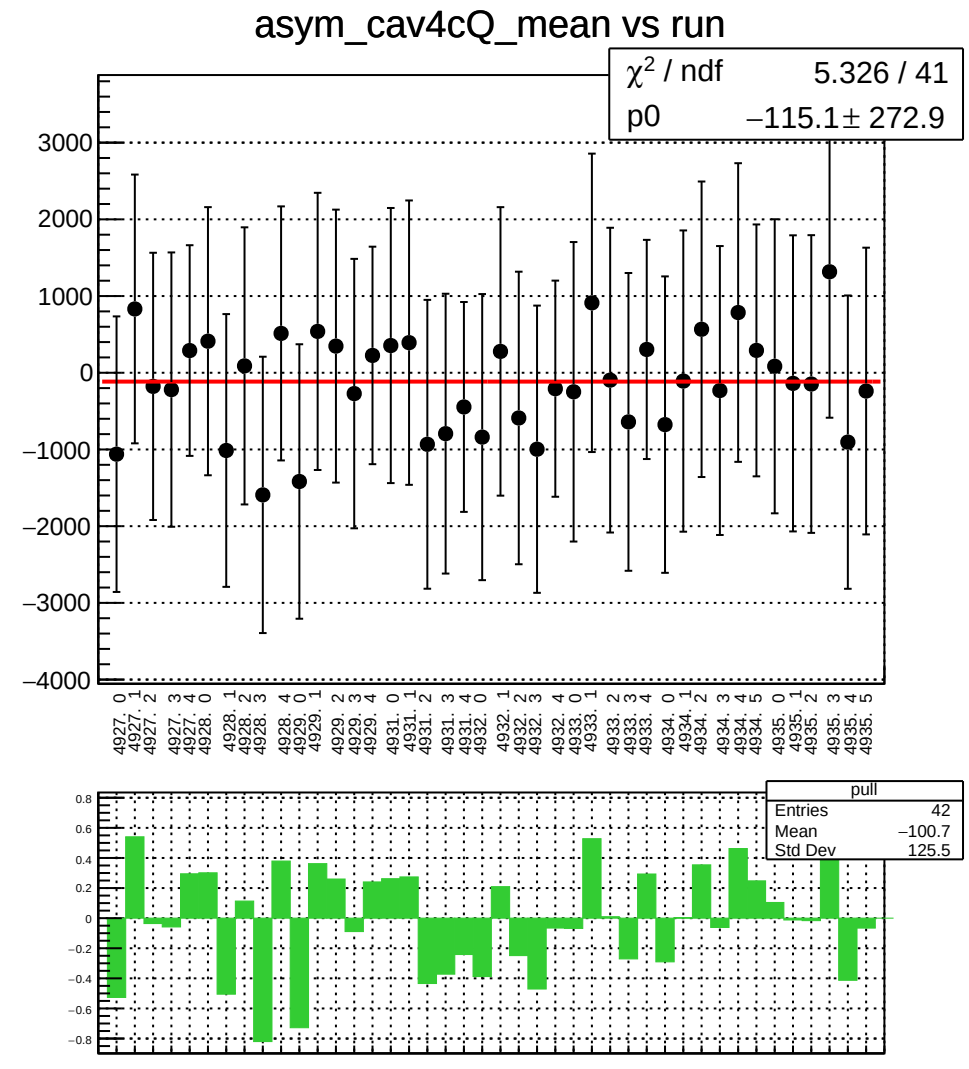

pull1D
Entries 42
Mean −0.002291
Std Dev 0.2453
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

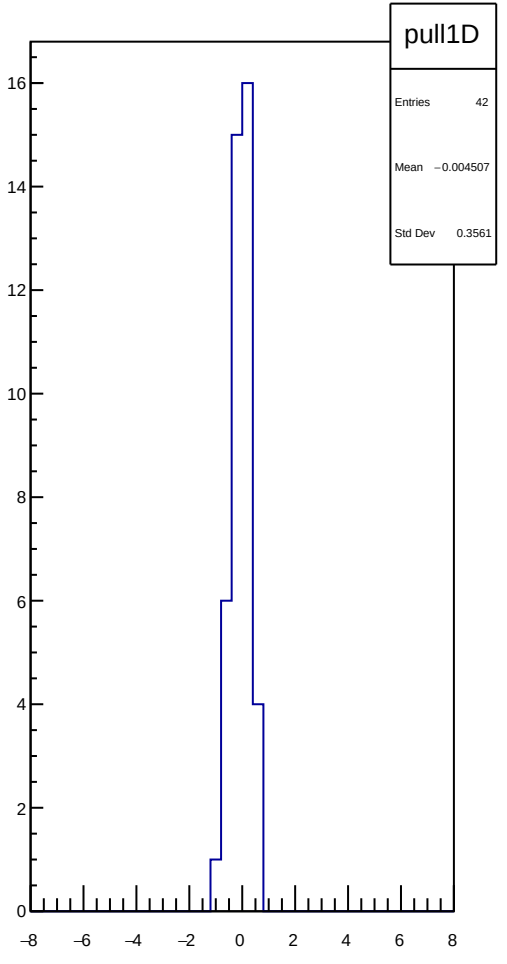

asym_bcm_dg_ds_rms vs run
χ² / ndf 1483 / 41
p0 169.1 ± 0.1853
185
180
175
170
165
160
155
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

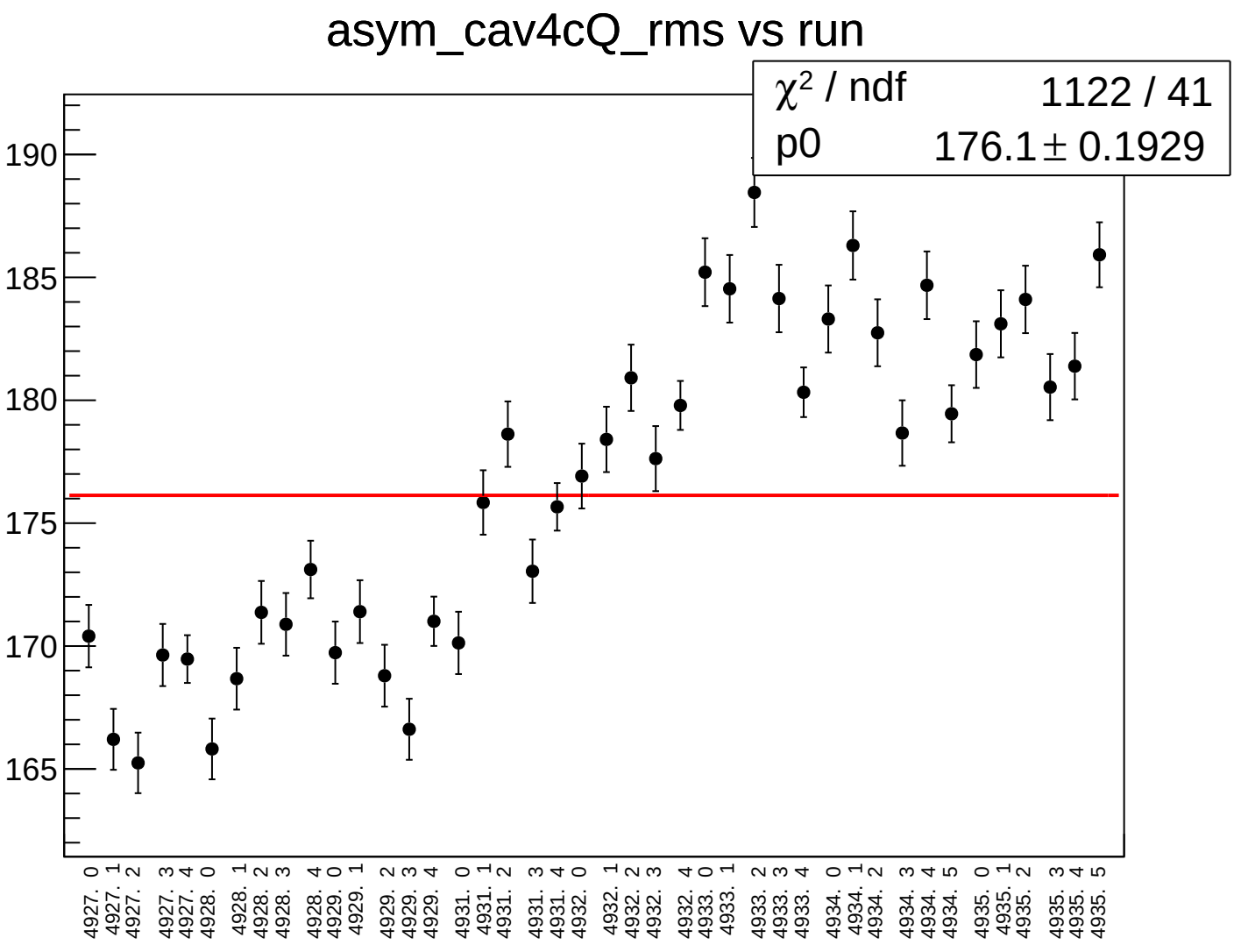

asym_cav4bQ_mean vs run
χ² / ndf 34.69 / 41
p0 −2.512 ± 1.836
pull
Entries 42
Mean 107.1
Std Dev 81.47

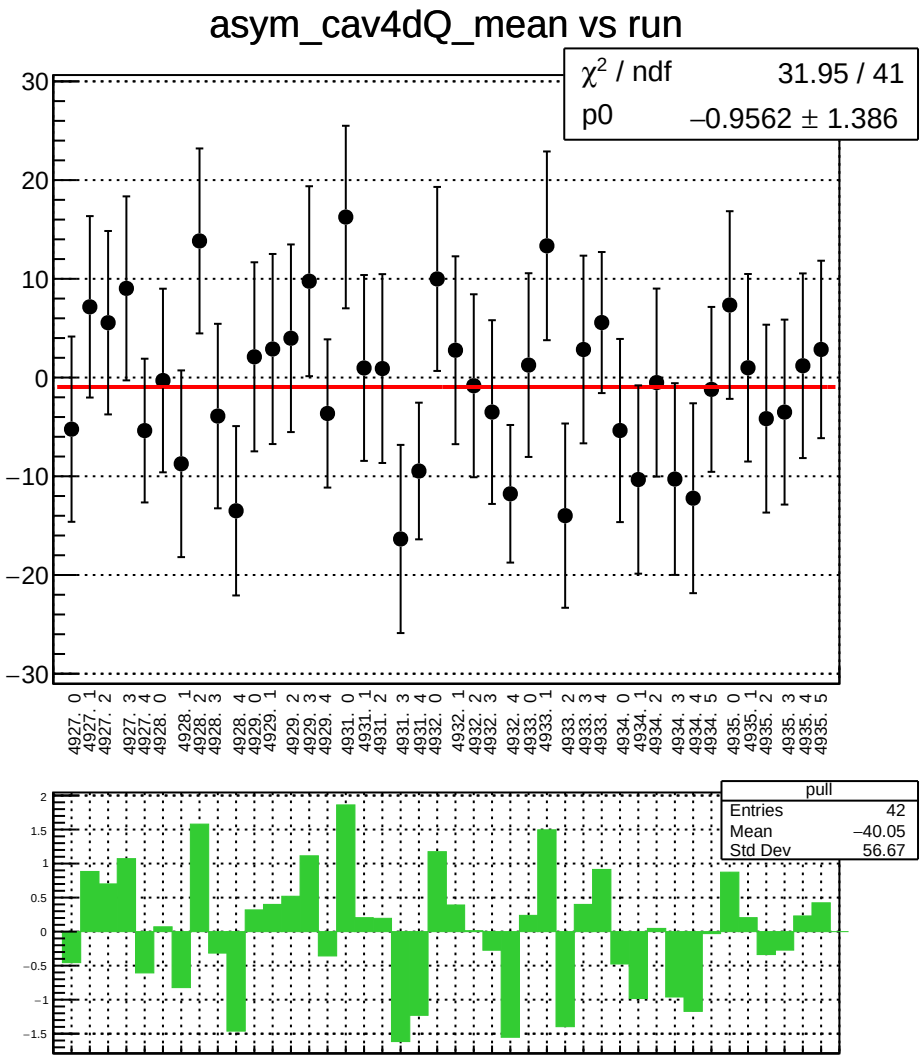

pull1D
Entries 42
Mean 0.01668
Std Dev 0.9087

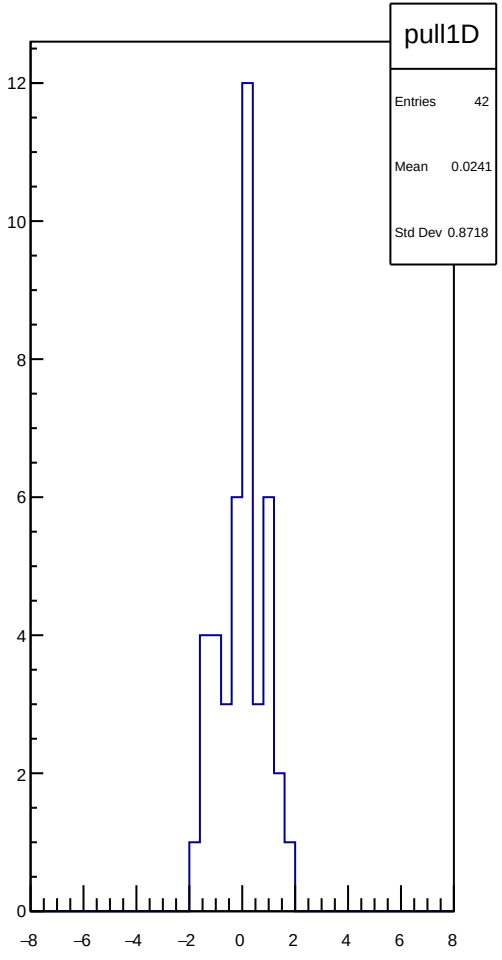

asym_cav4bQ_rms vs run
χ² / ndf 58.11 / 41
p0 1.186 ± 0.001298
1.22
1.21
1.2
1.19
1.18
1.17
1.16
1.15
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

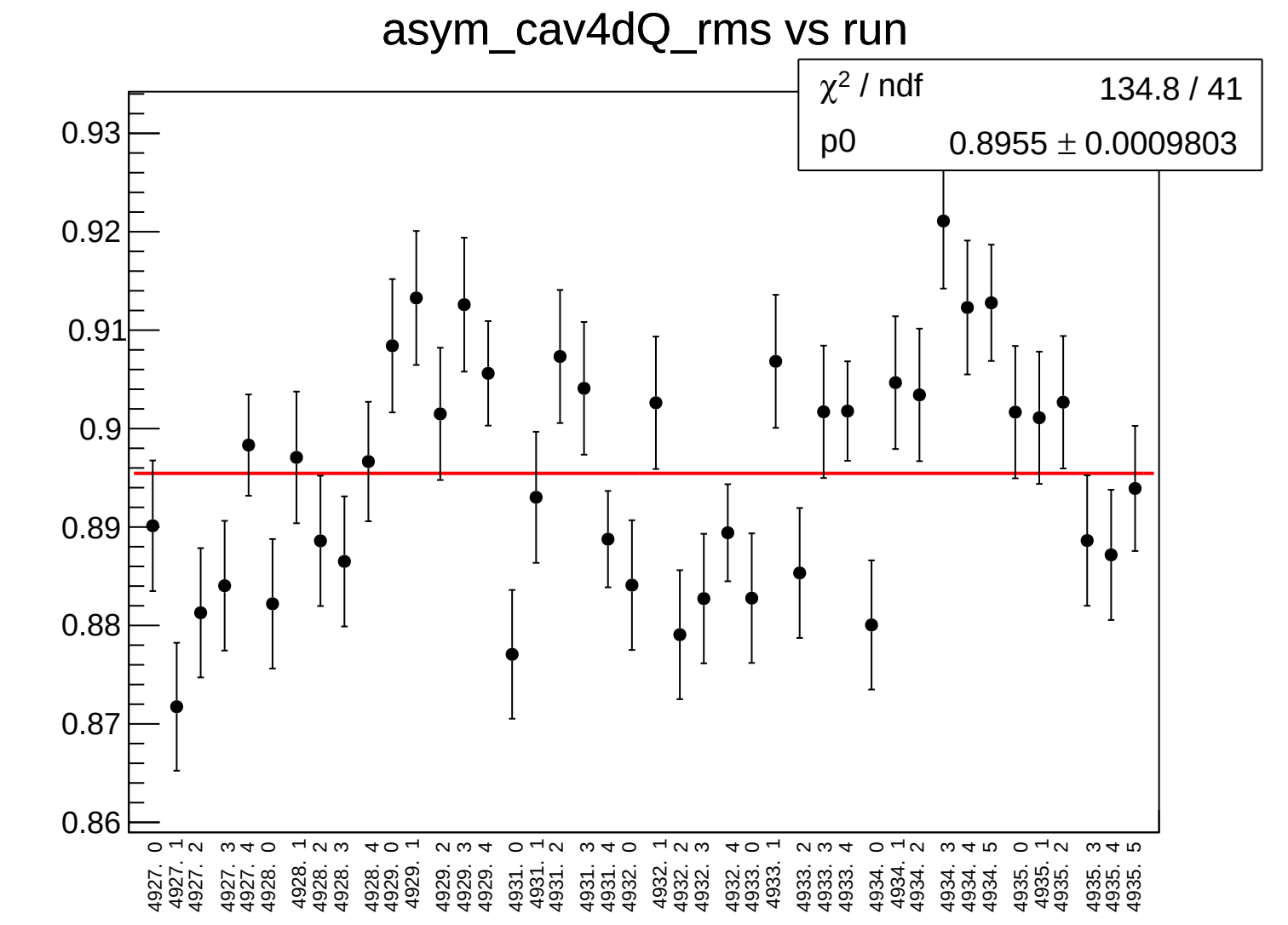

asym_cav4cQ_mean vs run
χ² / ndf 5.326 / 41
p0 −115.1± 272.9
pull
Entries 42
Mean −100.7
Std Dev 125.5

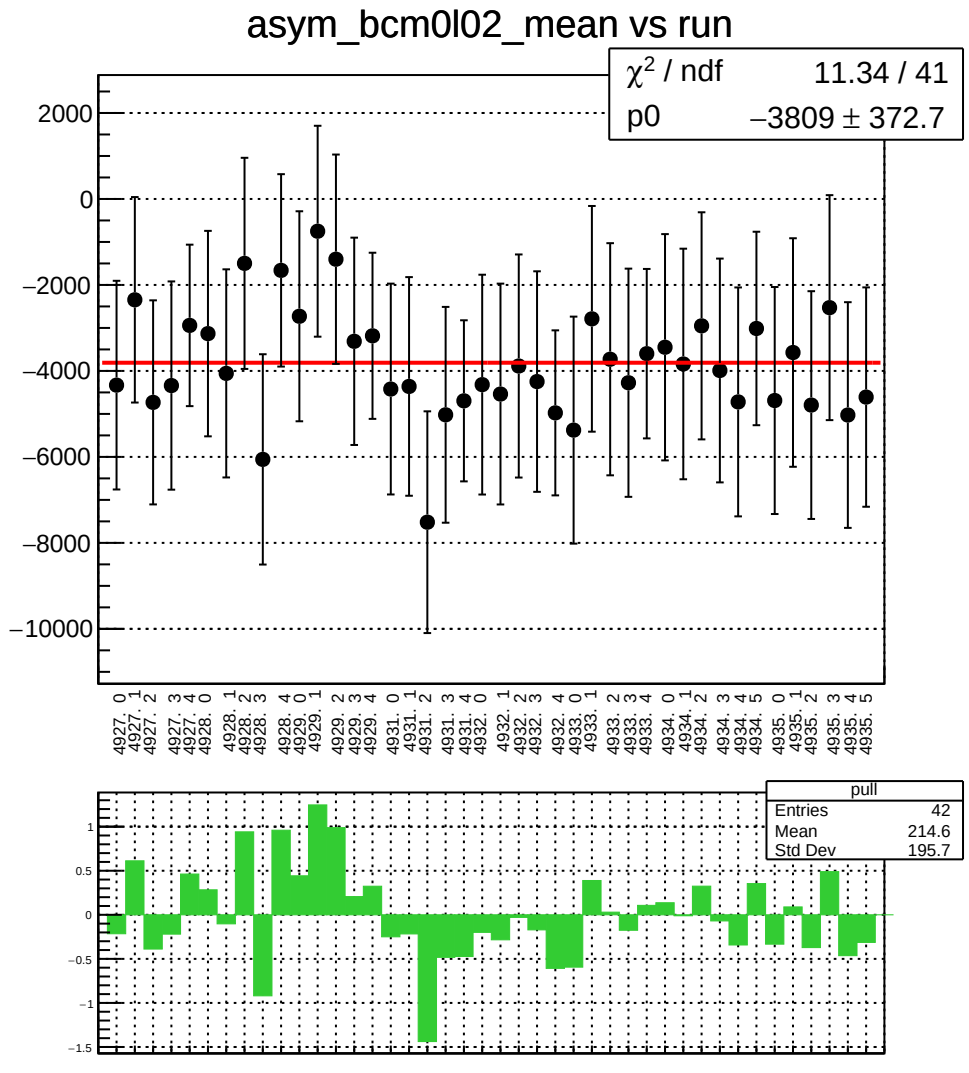

pull1D
Entries 42
Mean −0.004507
Std Dev 0.3561

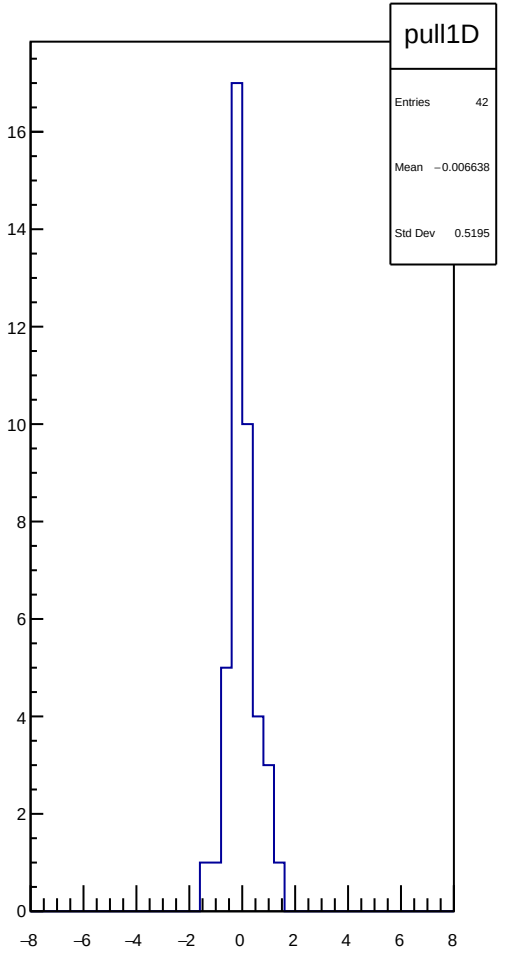

asym_cav4cQ_rms vs run
χ² / ndf 1122 / 41
p0 176.1 ± 0.1929
190
185
180
175
170
165
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

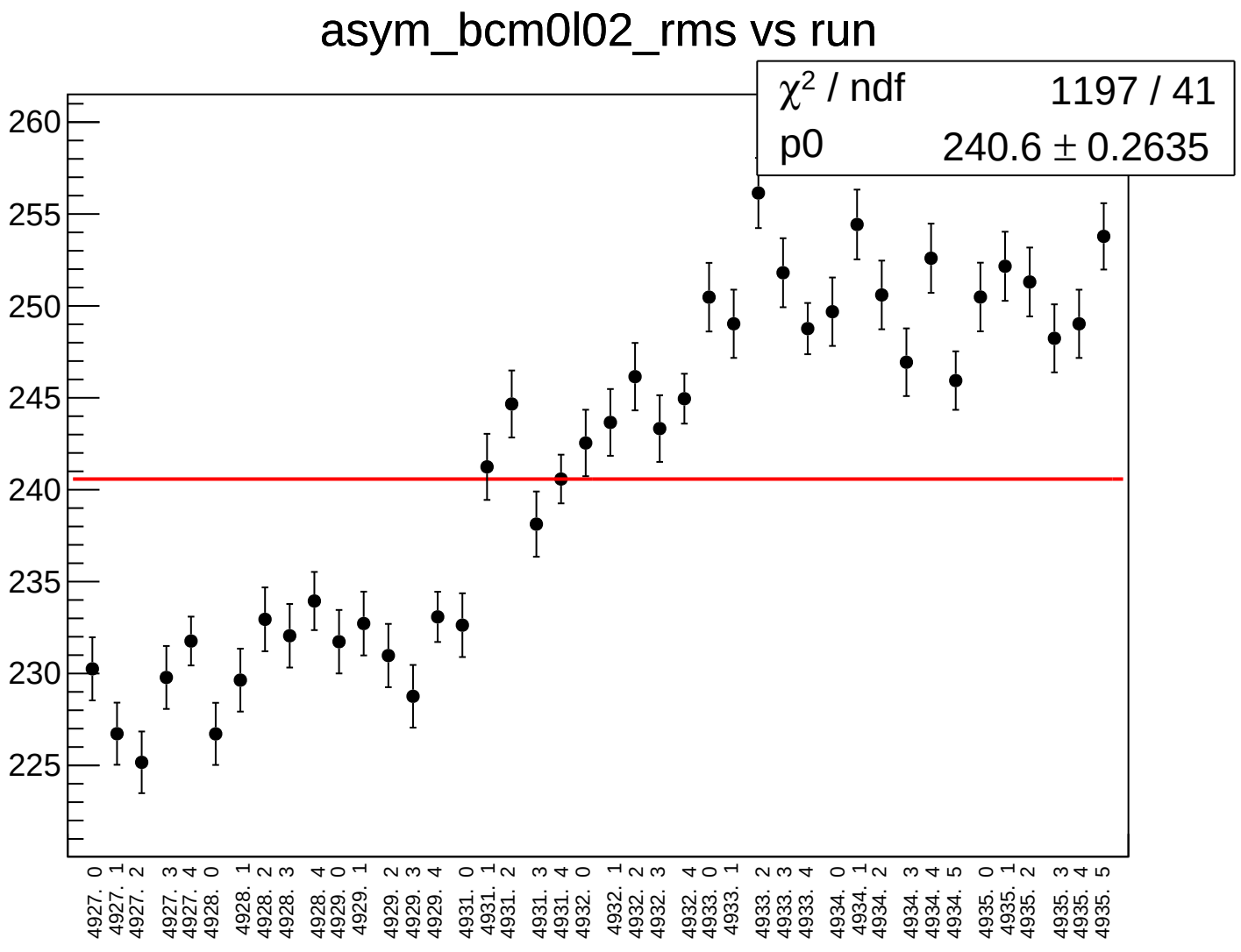

asym_cav4dQ_mean vs run
χ² / ndf 31.95 / 41
p0 –0.9562 ± 1.386
pull
Entries 42
Mean –40.05
Std Dev 56.67

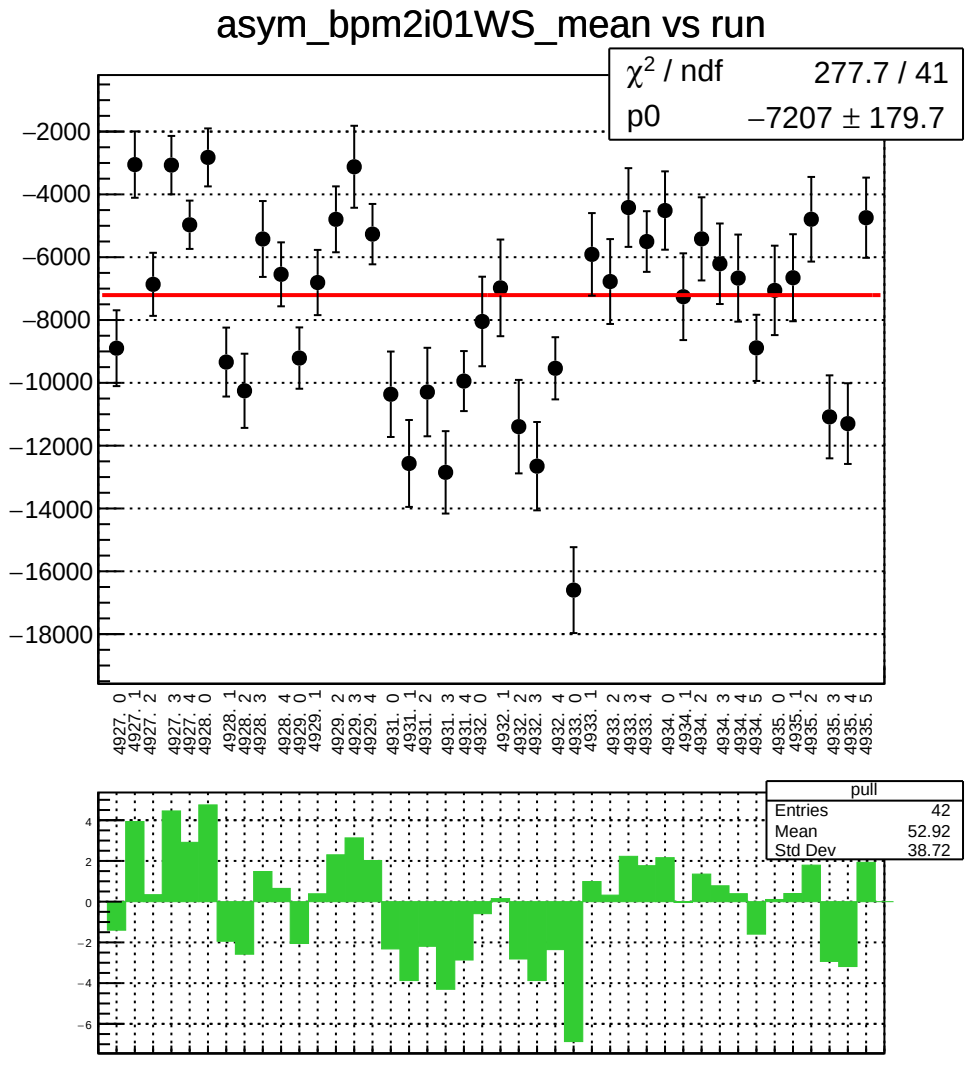

pull1D
Entries 42
Mean 0.0241
Std Dev 0.8718

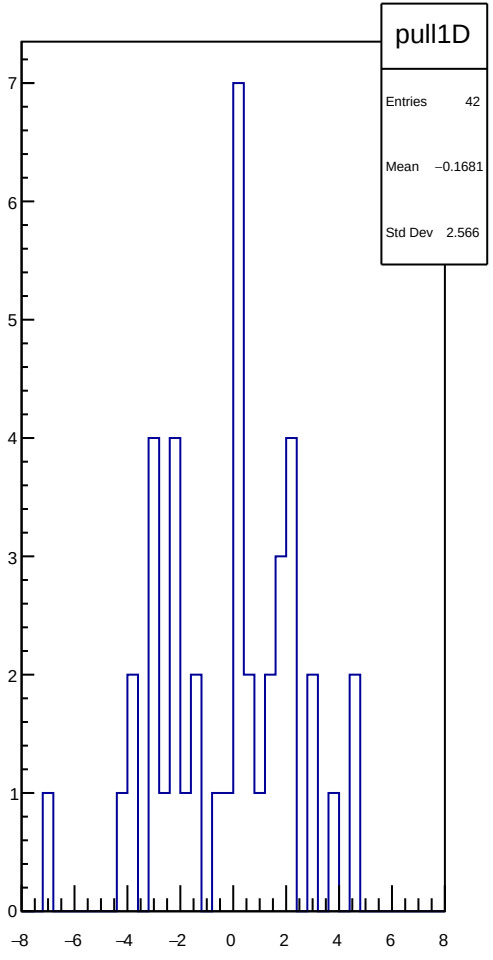

asym_cav4dQ_rms vs run
χ² / ndf 134.8 / 41
p0 0.8955 ± 0.0009803
0.93
0.92
0.91
0.9
0.89
0.88
0.87
0.86
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

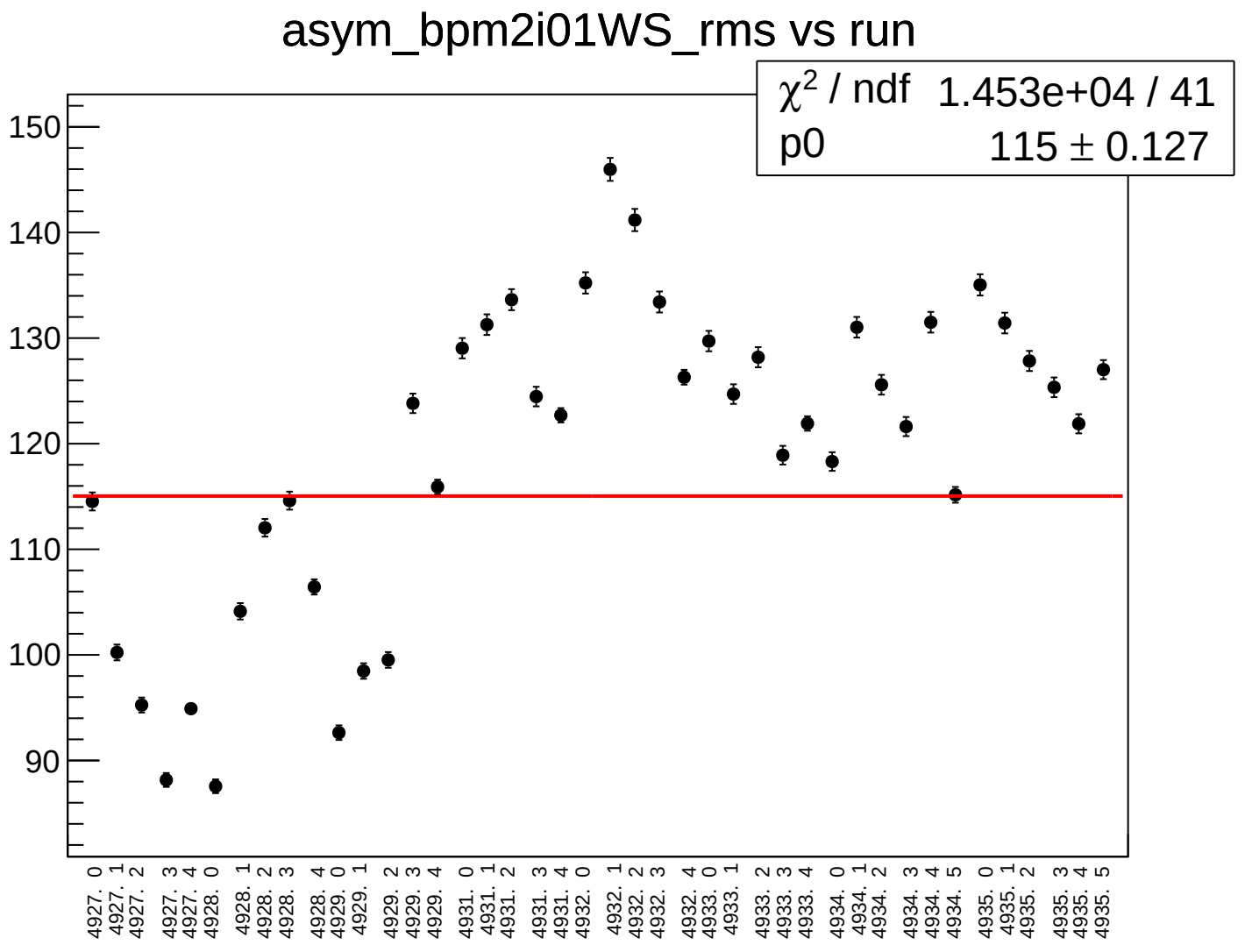

asym_bcm0l02_mean vs run
χ² / ndf 11.34 / 41
p0 −3809 ± 372.7
2000
0
−2000
−4000
−6000
−8000
−10000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 214.6
Std Dev 195.7
1
0.5
0
−0.5
−1
−1.5

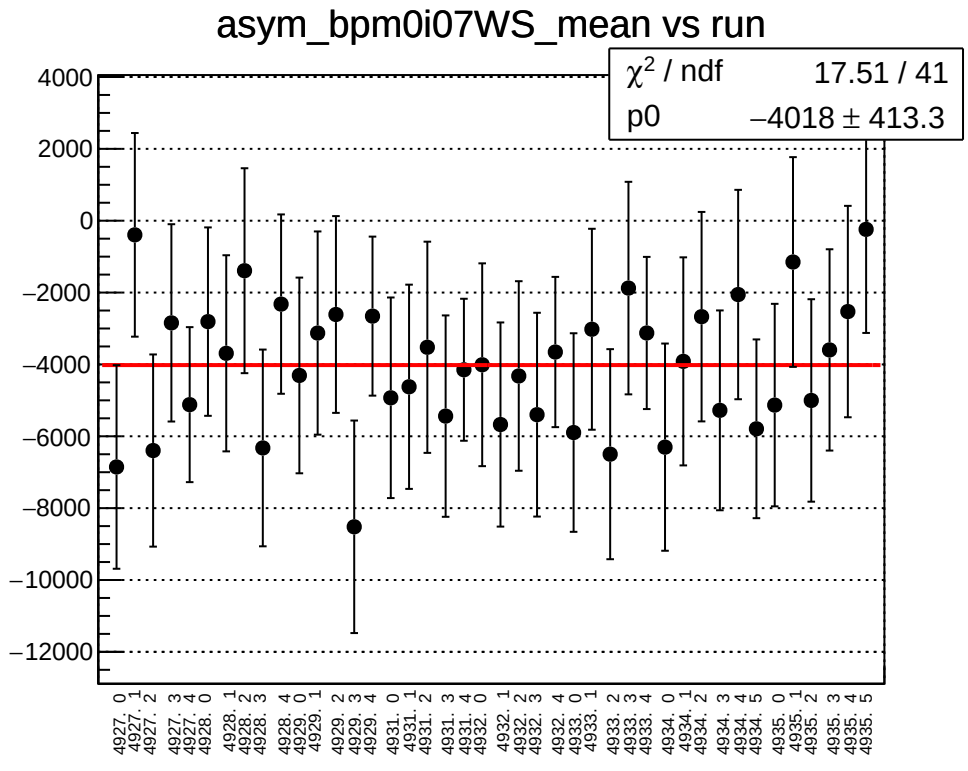

pull1D
Entries 42
Mean −0.006638
Std Dev 0.5195
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

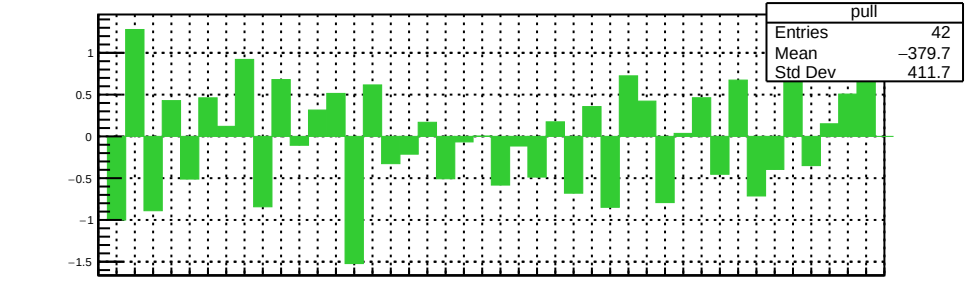

asym_bcm0l02_rms vs run
χ² / ndf 1197 / 41
p0 240.6 ± 0.2635
260
255
250
245
240
235
230
225
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

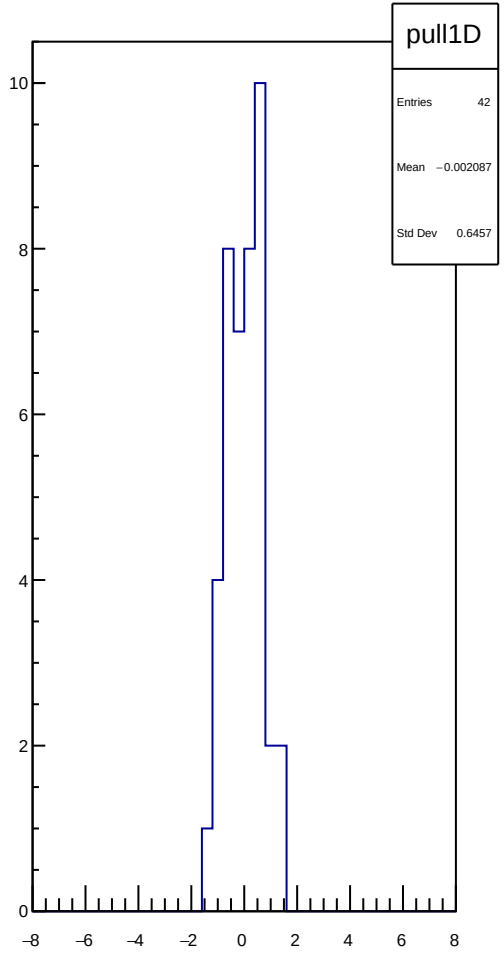

asym_bpm2i01WS_mean vs run
χ² / ndf 277.7 / 41
p0 −7207 ± 179.7
−2000
−4000
−6000
−8000
−10000
−12000
−14000
−16000
−18000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 52.92
Std Dev 38.72
4
2
0
−2
−4
−6

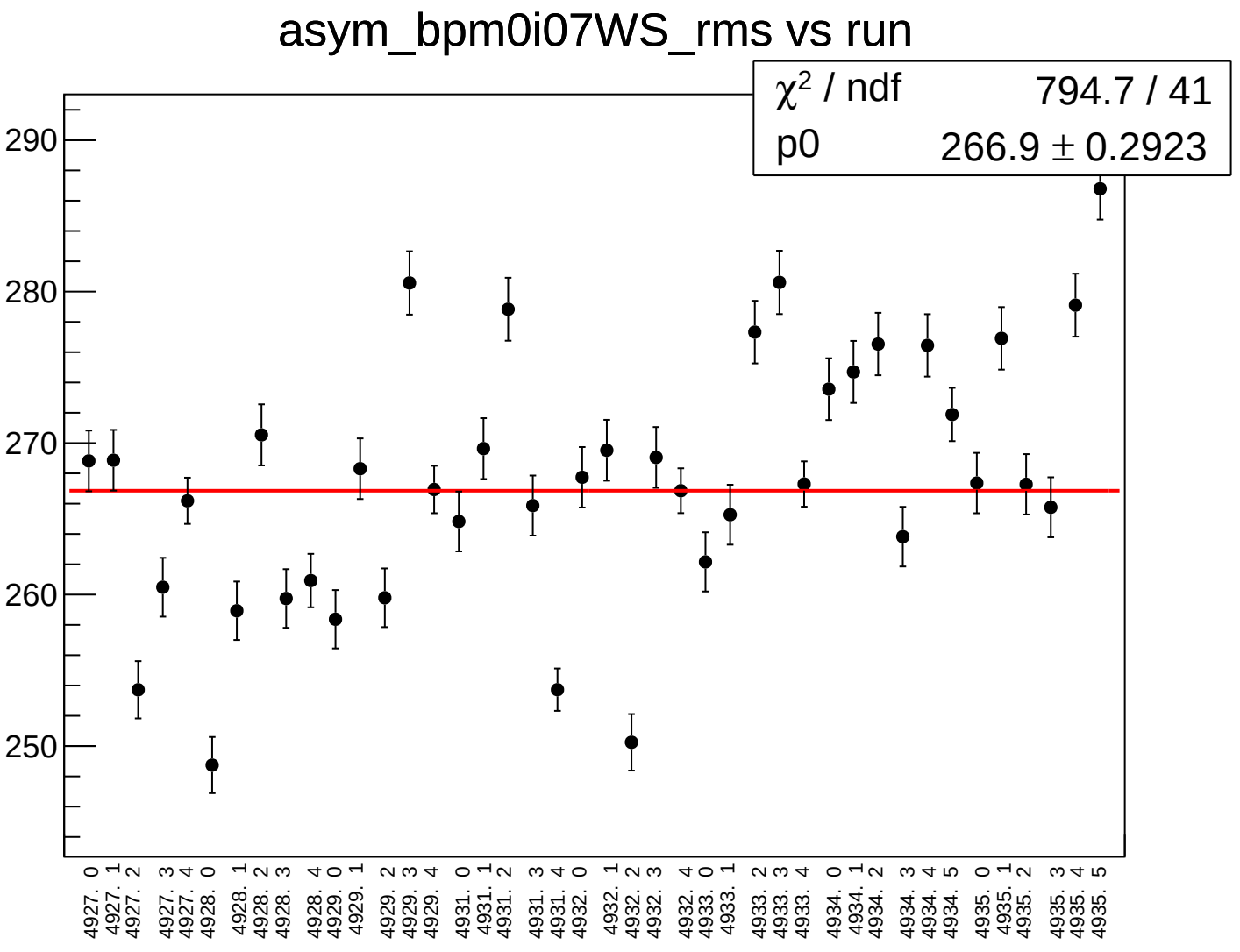

pull1D
Entries 42
Mean −0.1681
Std Dev 2.566
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

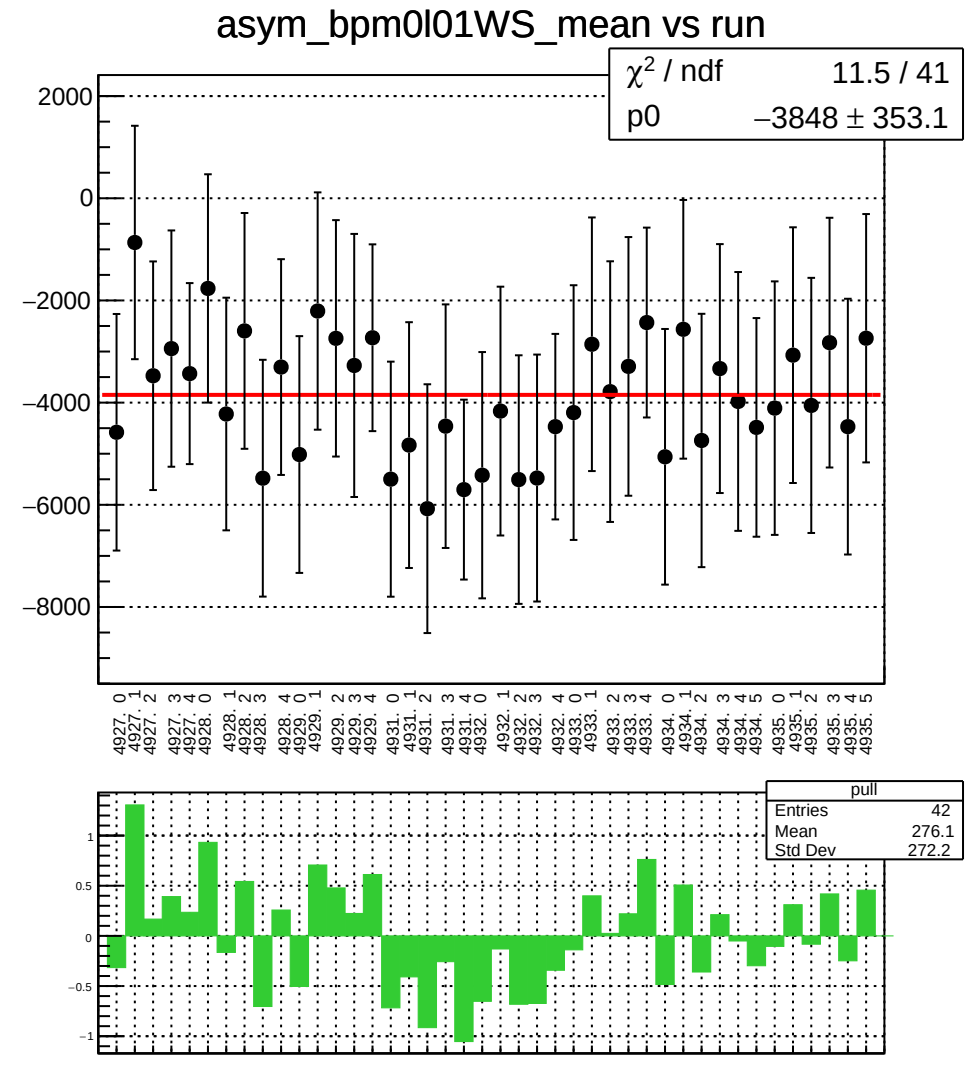

asym_bpm2i01WS_rms vs run
χ² / ndf 1.453e+04 / 41
p0 115 ± 0.127
150
140
130
120
110
100
90
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

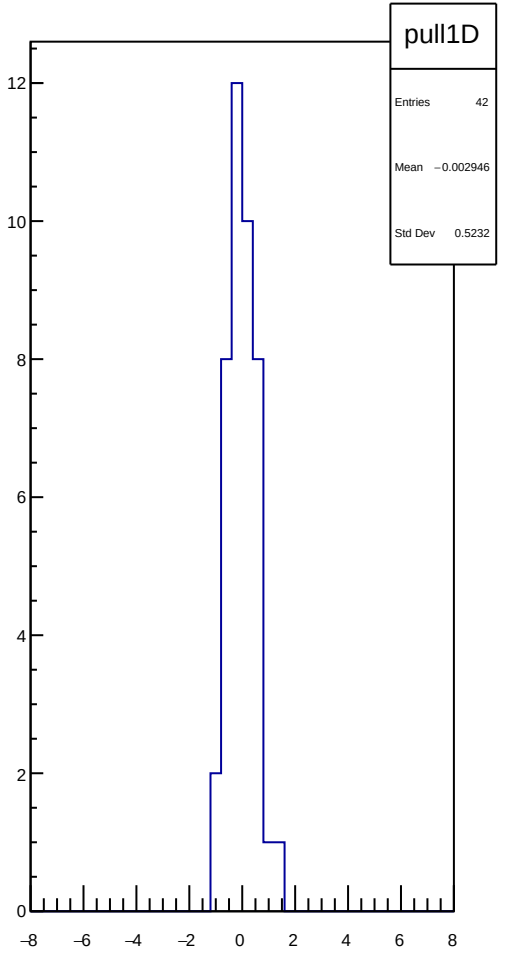

asym_bpm0i07WS_mean vs run
χ² / ndf 17.51 / 41
p0 −4018 ± 413.3
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935.

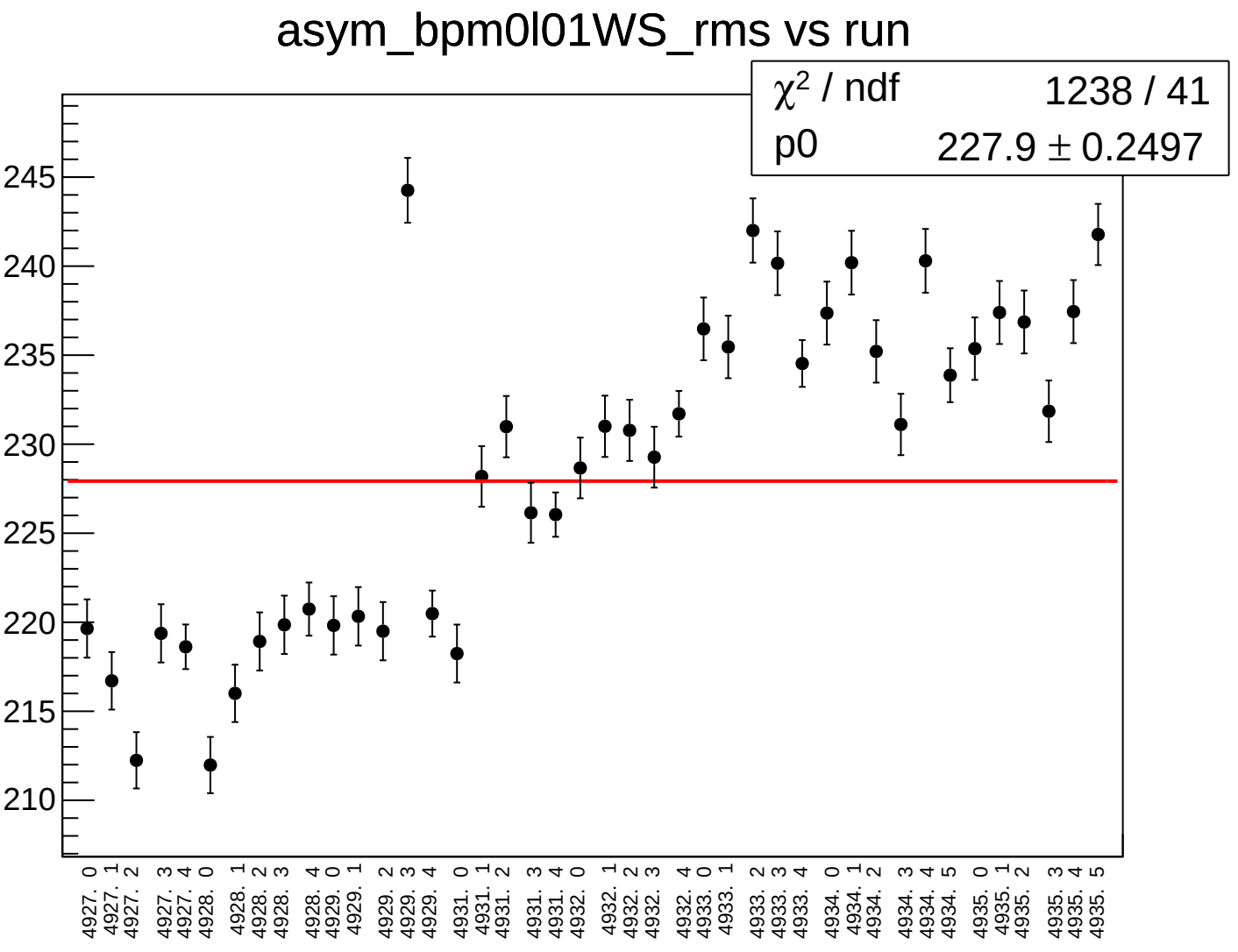

pull
Entries 42
Mean −379.7
Std Dev 411.7
1
0.5
0
−0.5
−1
−1.5

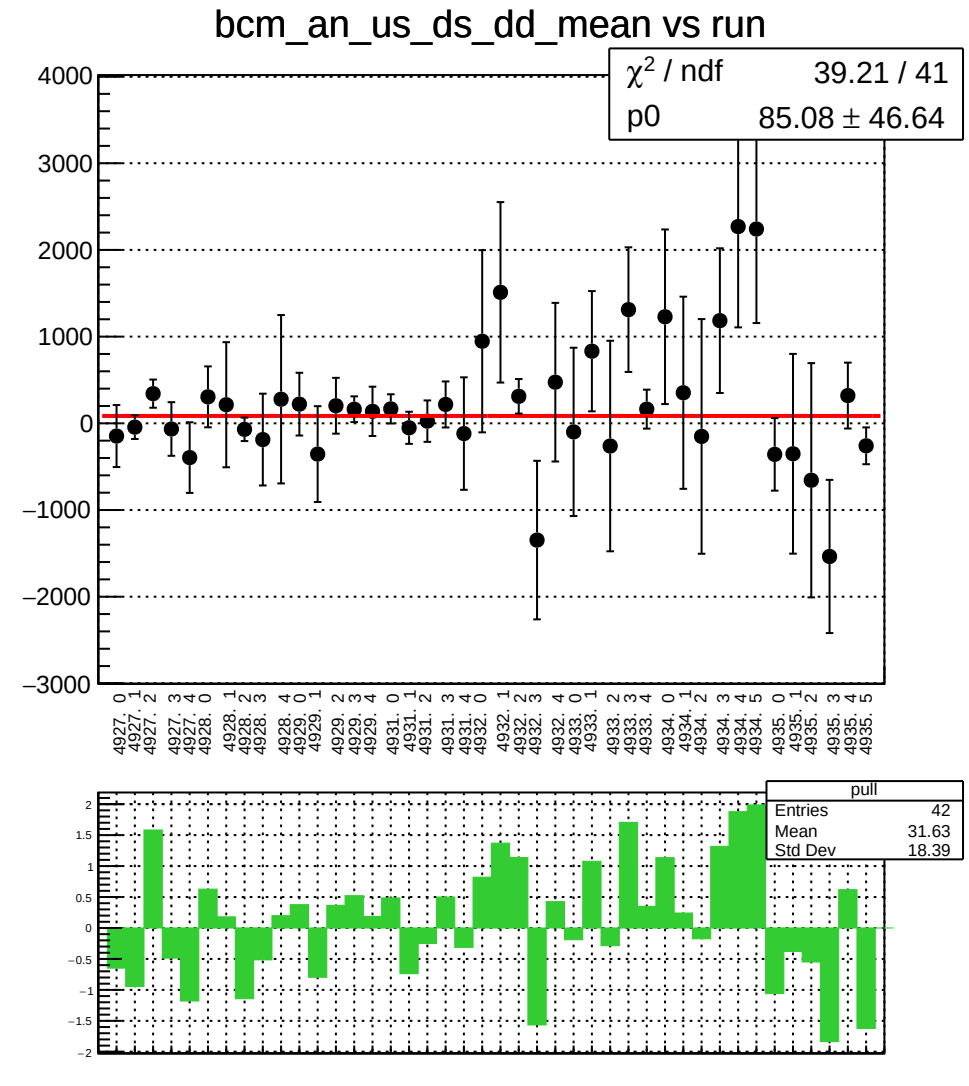

pull1D
Entries 42
Mean −0.002087
Std Dev 0.6457
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

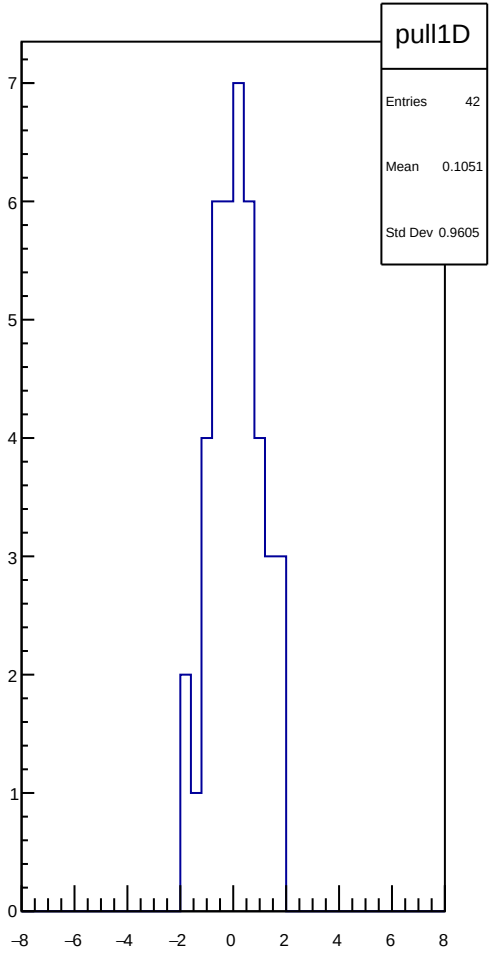

asym_bpm0i07WS_rms vs run
χ² / ndf 794.7 / 41
p0 266.9 ± 0.2923
290
280
270
260
250
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

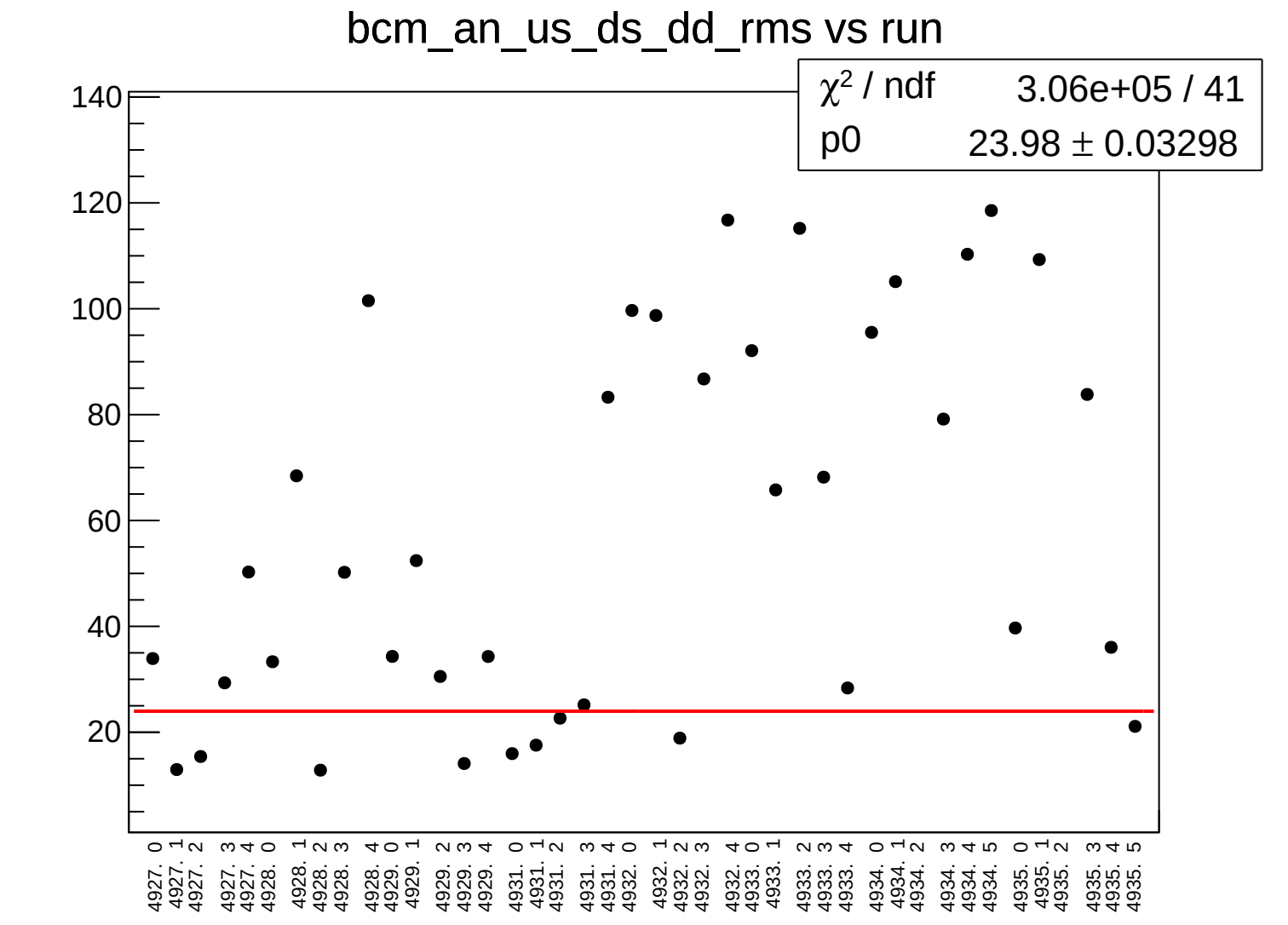

asym_bpm0l01WS_mean vs run
χ² / ndf 11.5 / 41
p0 −3848 ± 353.1
2000
0
−2000
−4000
−6000
−8000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 276.1
Std Dev 272.2
1
0.5
0
−0.5
−1

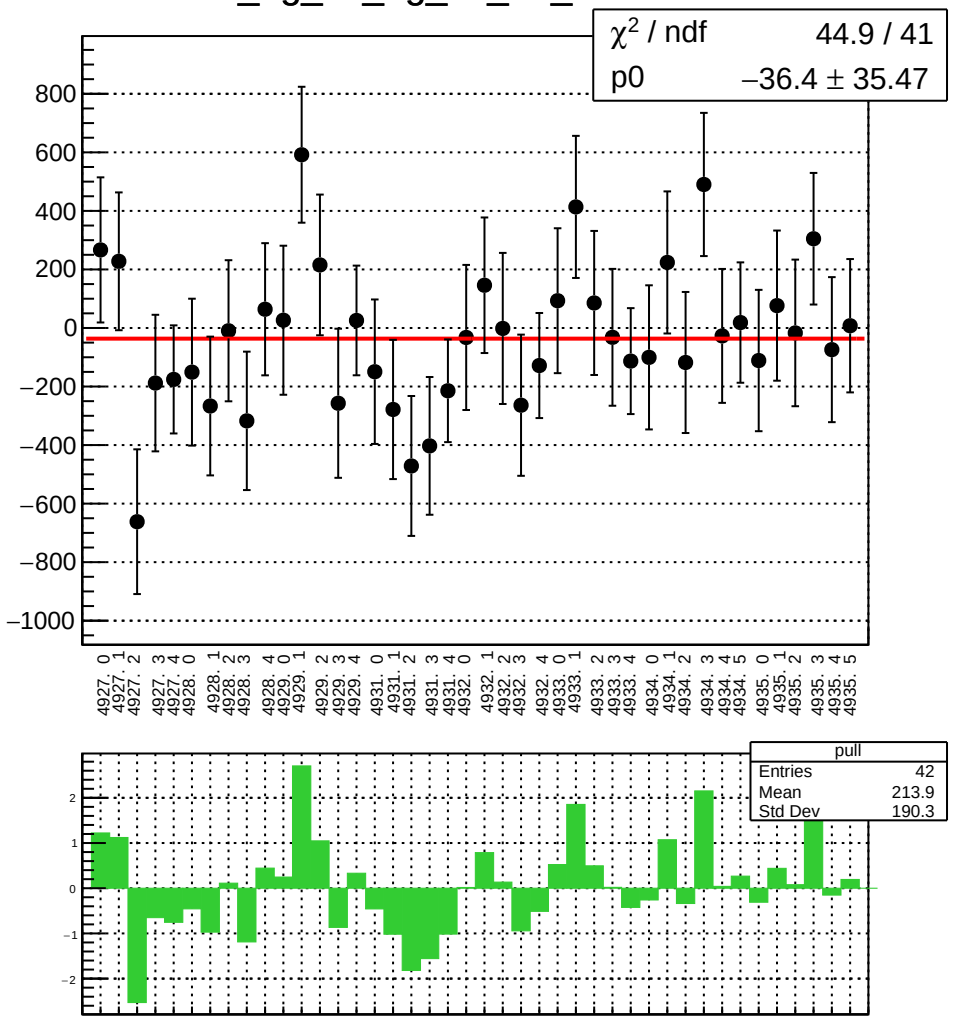

pull1D
Entries 42
Mean −0.002946
Std Dev 0.5232
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

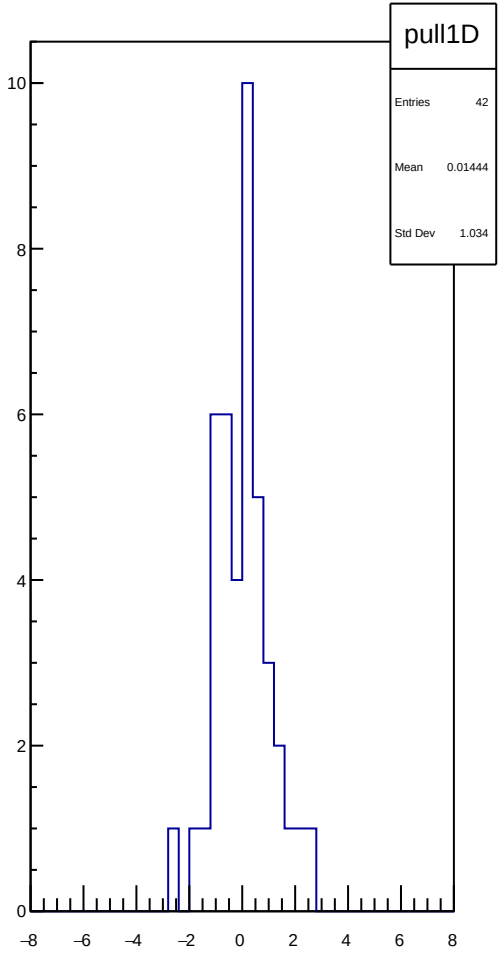

asym_bpm0l01WS_rms vs run
χ² / ndf 1238 / 41
p0 227.9 ± 0.2497
245
240
235
230
225
220
215
210
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

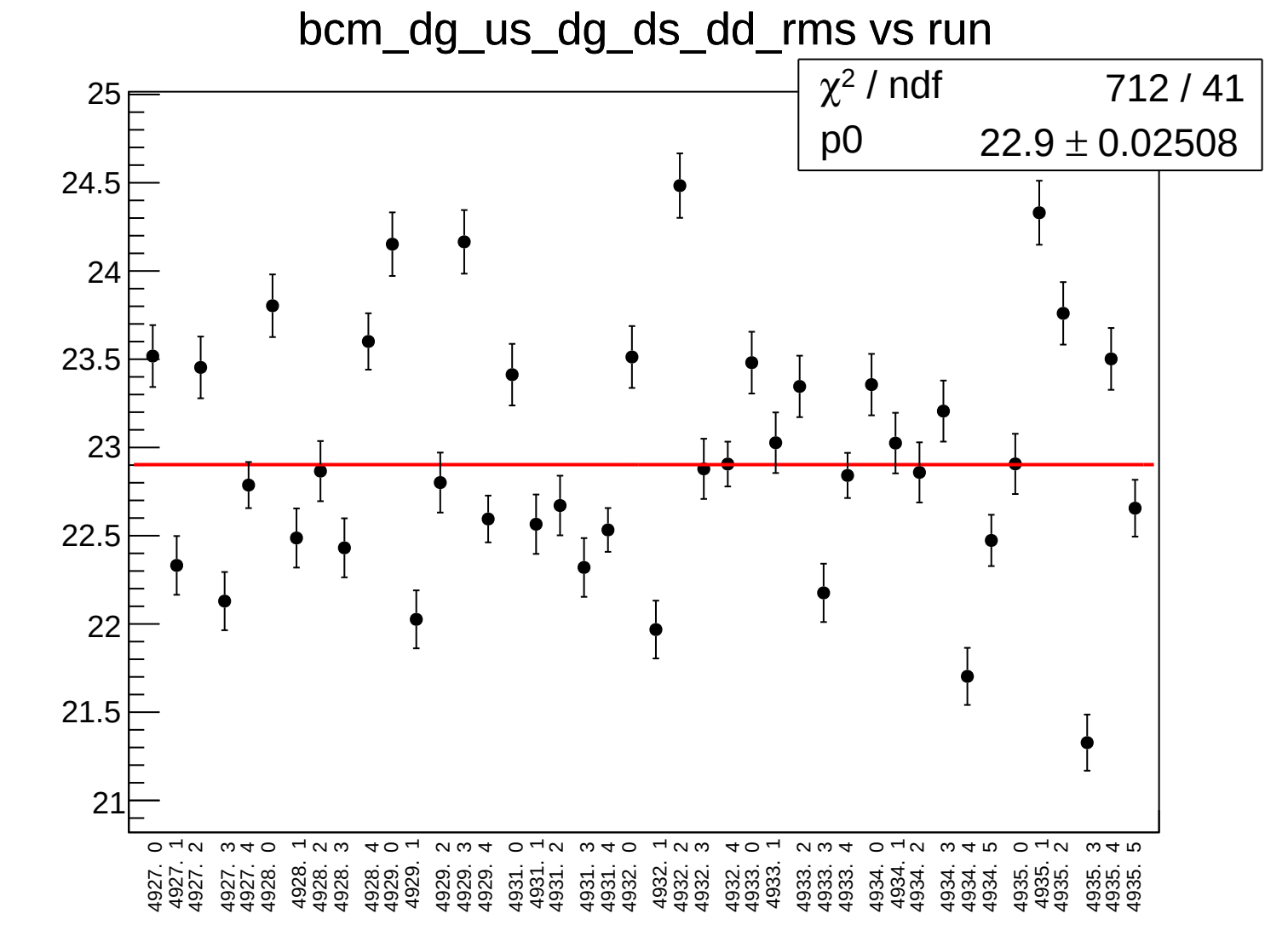

bcm_an_us_ds_dd_mean vs run
χ² / ndf 39.21 / 41
p0 85.08 ± 46.64
pull
Entries 42
Mean 31.63
Std Dev 18.39

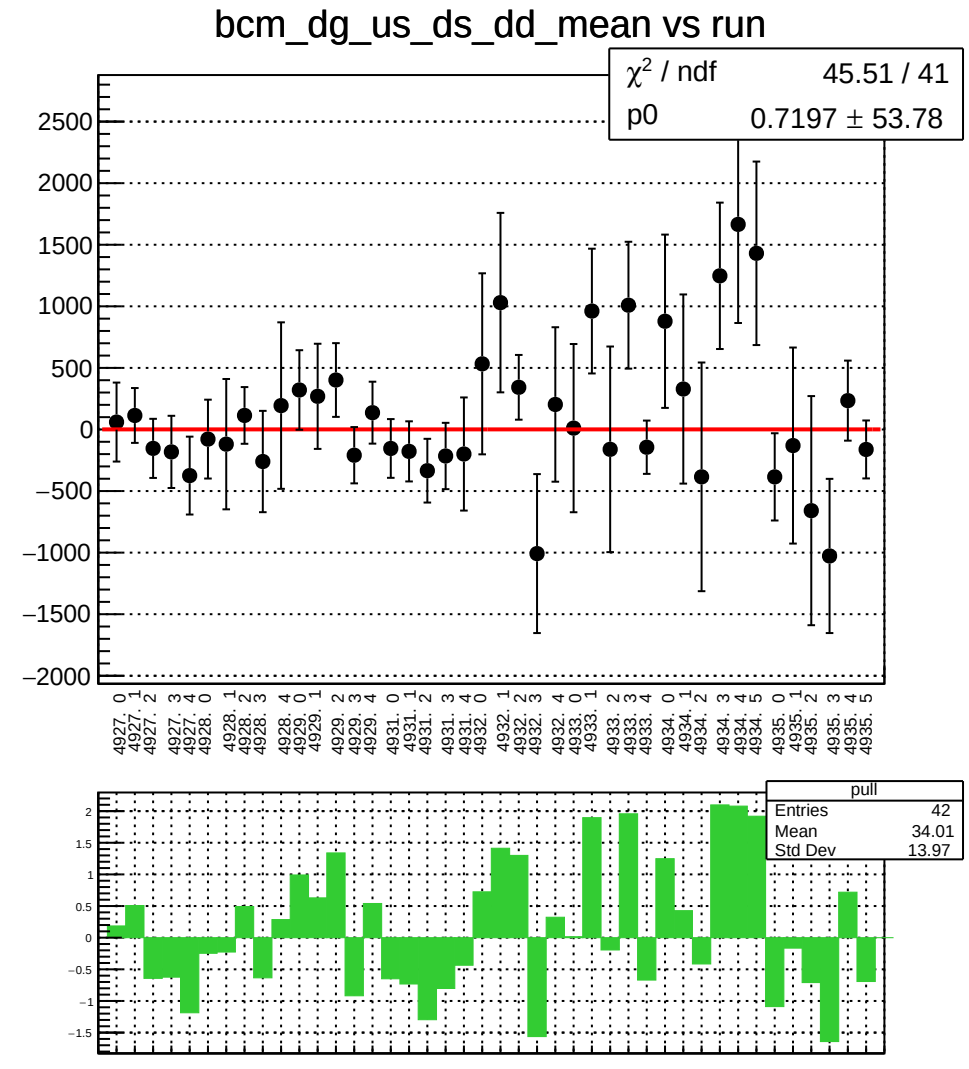

pull1D
Entries 42
Mean 0.1051
Std Dev 0.9605

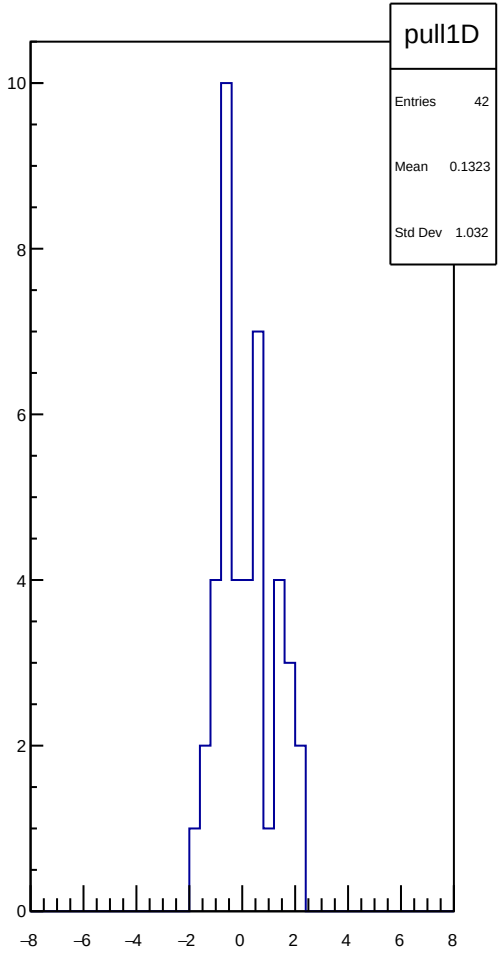

bcm_an_us_ds_dd_rms vs run
χ² / ndf 3.06e+05 / 41
p0 23.98 ± 0.03298
140
120
100
80
60
40
20
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

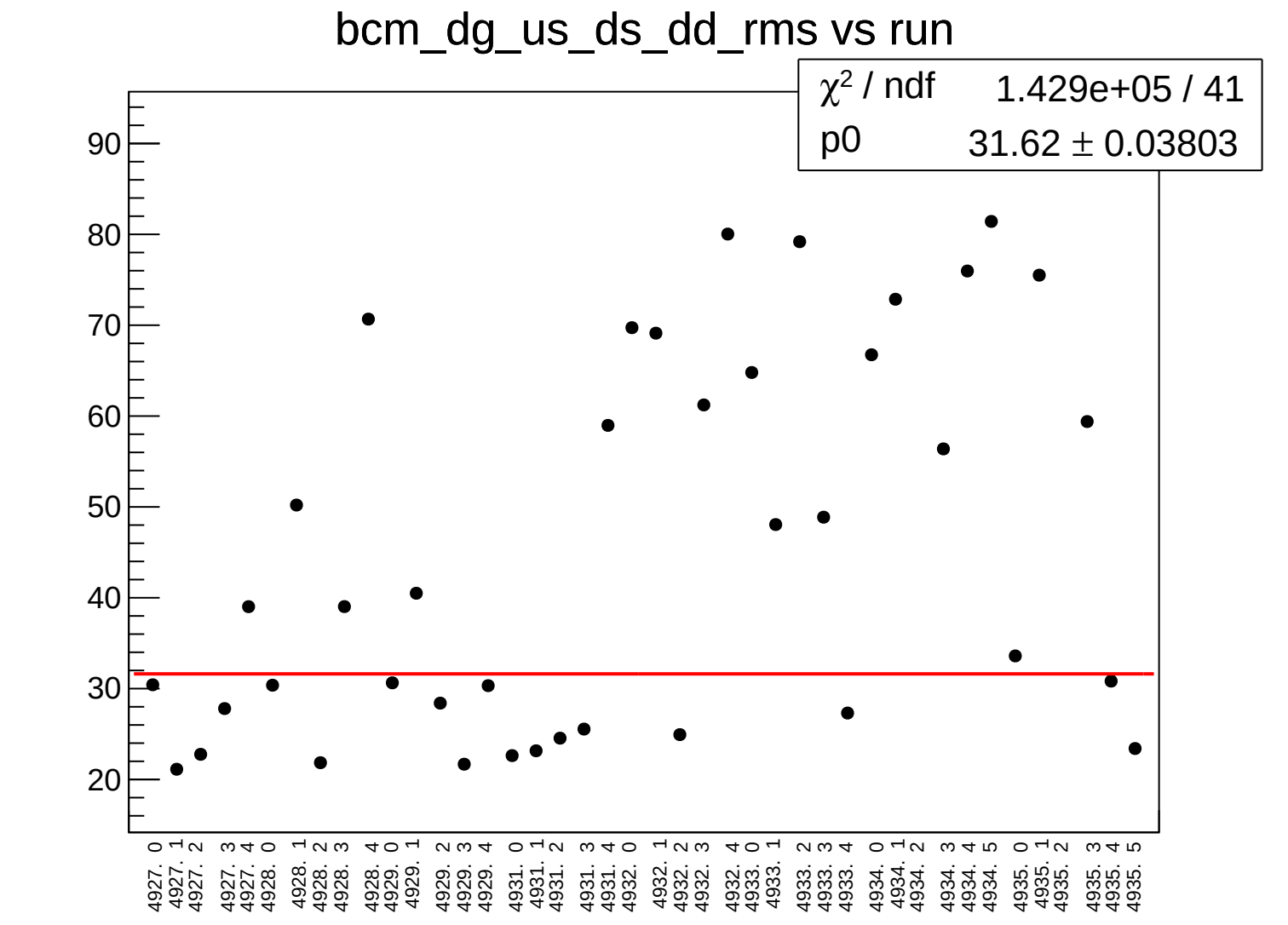

bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 44.9 / 41
p0 −36.4 ± 35.47
pull
Entries 42
Mean 213.9
Std Dev 190.3


pull1D
Entries 42
Mean 0.01444
Std Dev 1.034


bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 712 / 41
p0 22.9 ± 0.02508
25
24.5
24
23.5
23
22.5
22
21.5
21
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5


bcm_dg_us_ds_dd_mean vs run
χ² / ndf 45.51 / 41
p0 0.7197 ± 53.78
pull
Entries 42
Mean 34.01
Std Dev 13.97


pull1D
Entries 42
Mean 0.1323
Std Dev 1.032


bcm_dg_us_ds_dd_rms vs run
χ² / ndf 1.429e+05 / 41
p0 31.62 ± 0.03803
90
80
70
60
50
40
30
20
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
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4932. 4
4933. 0
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4933. 2
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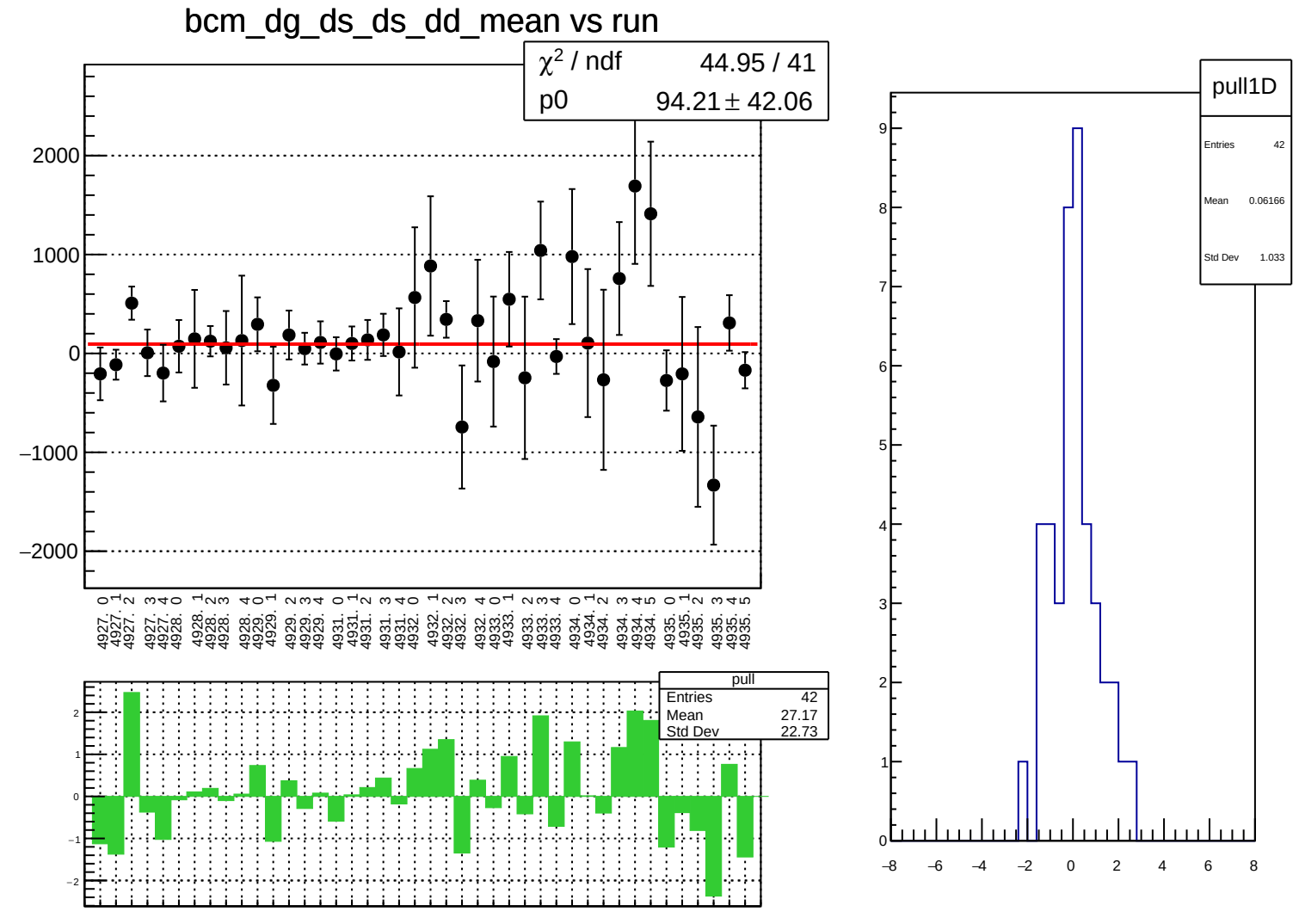
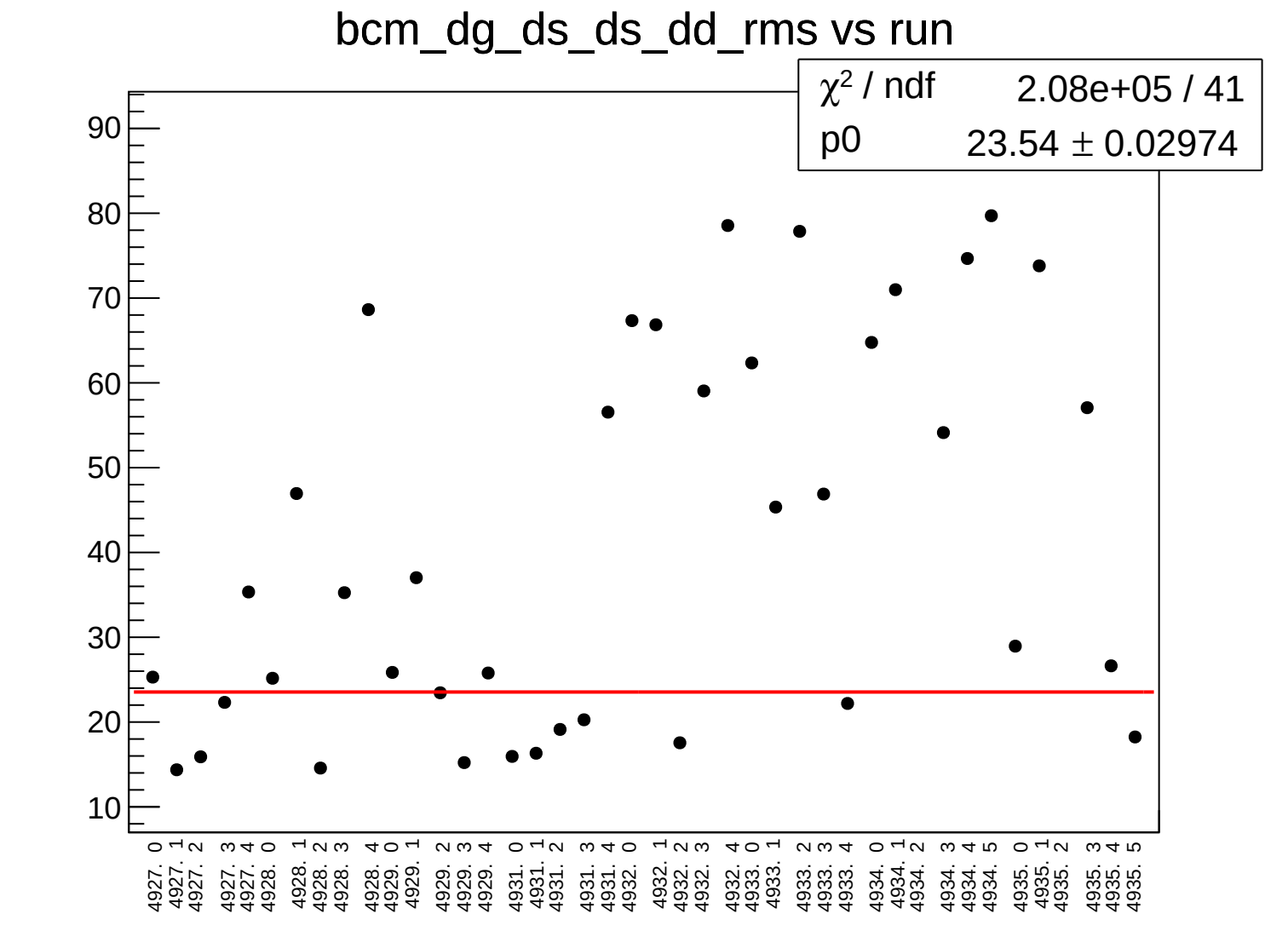
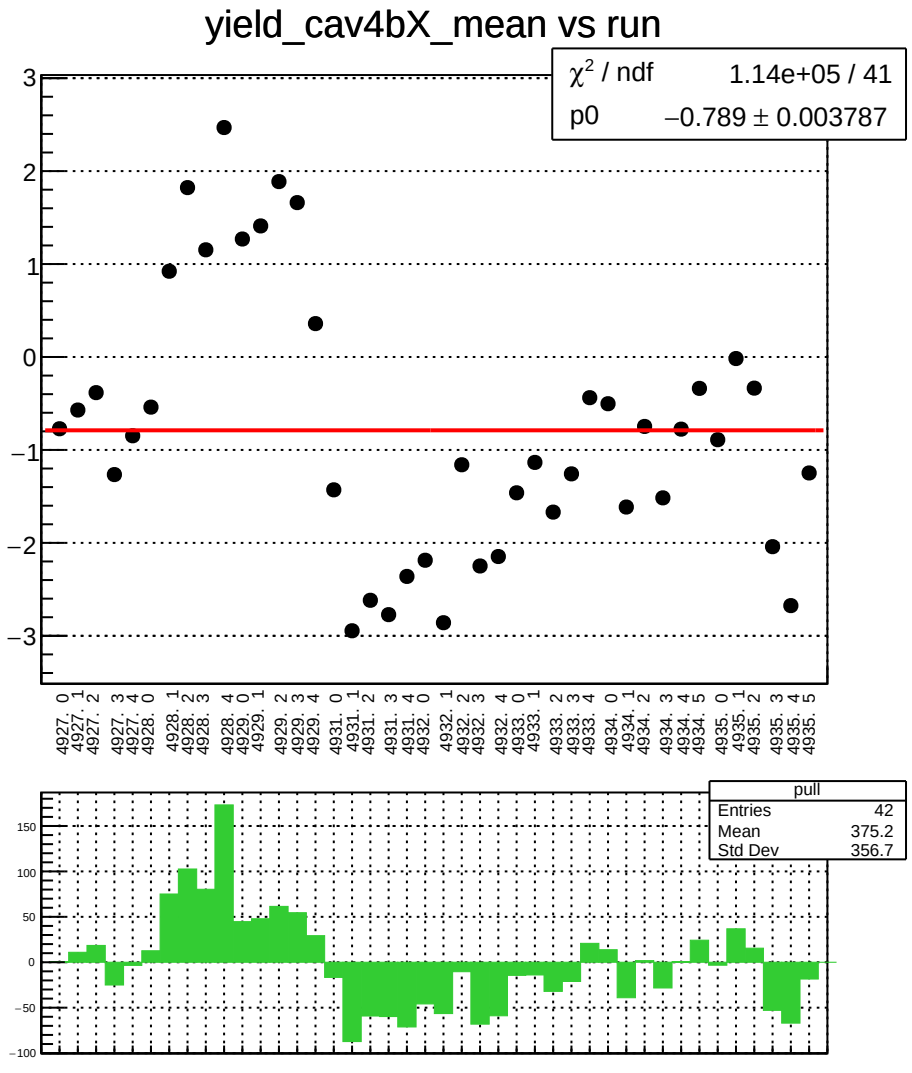
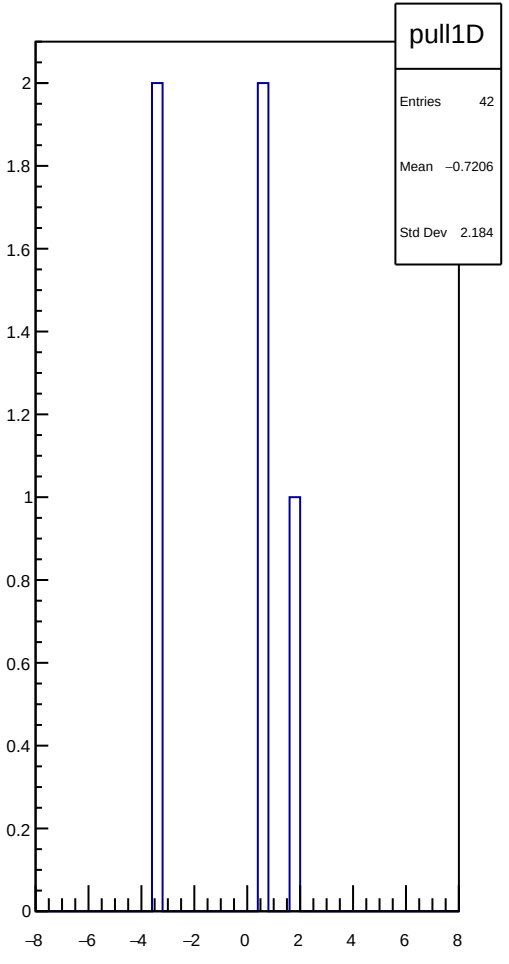
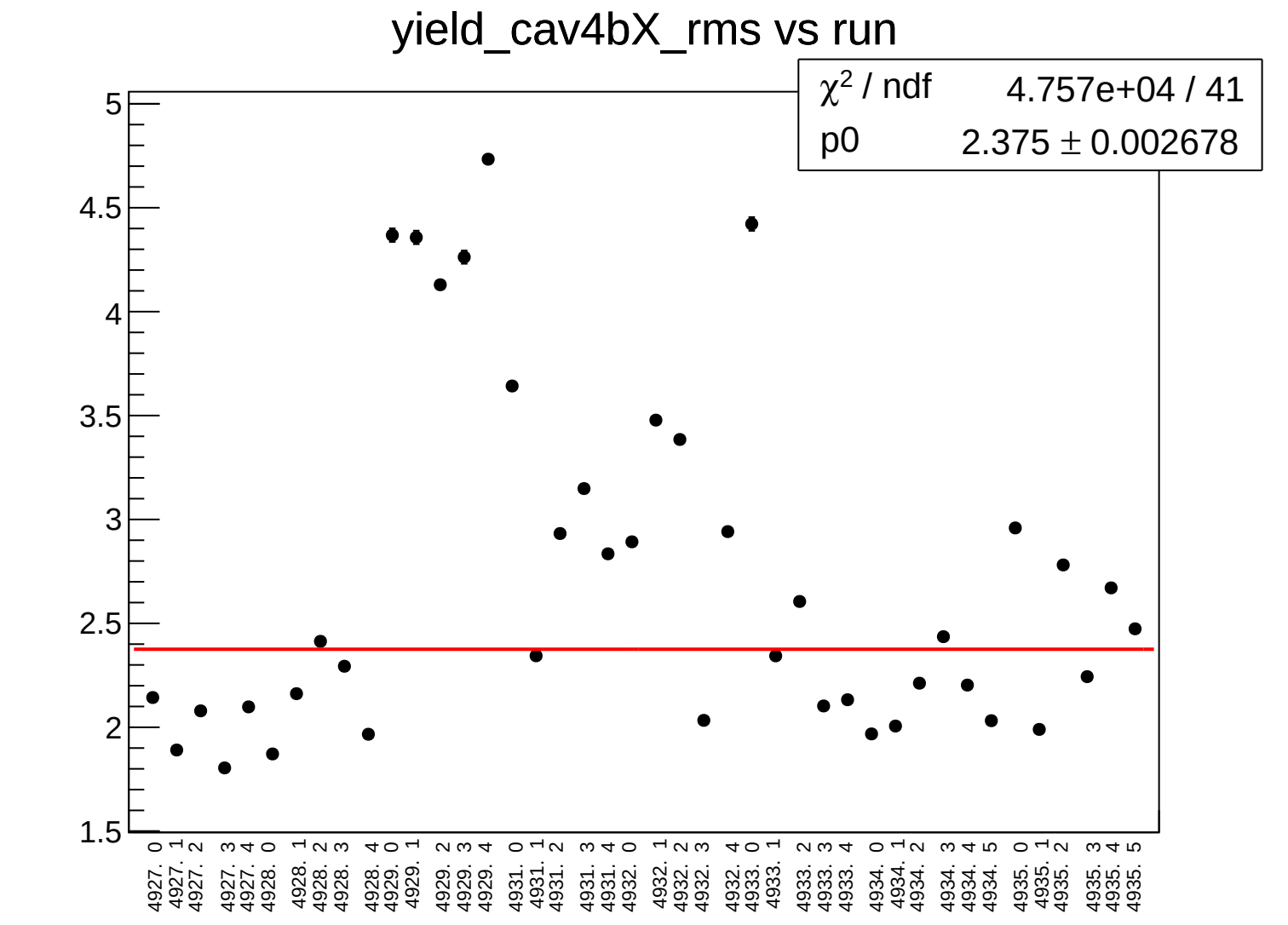
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

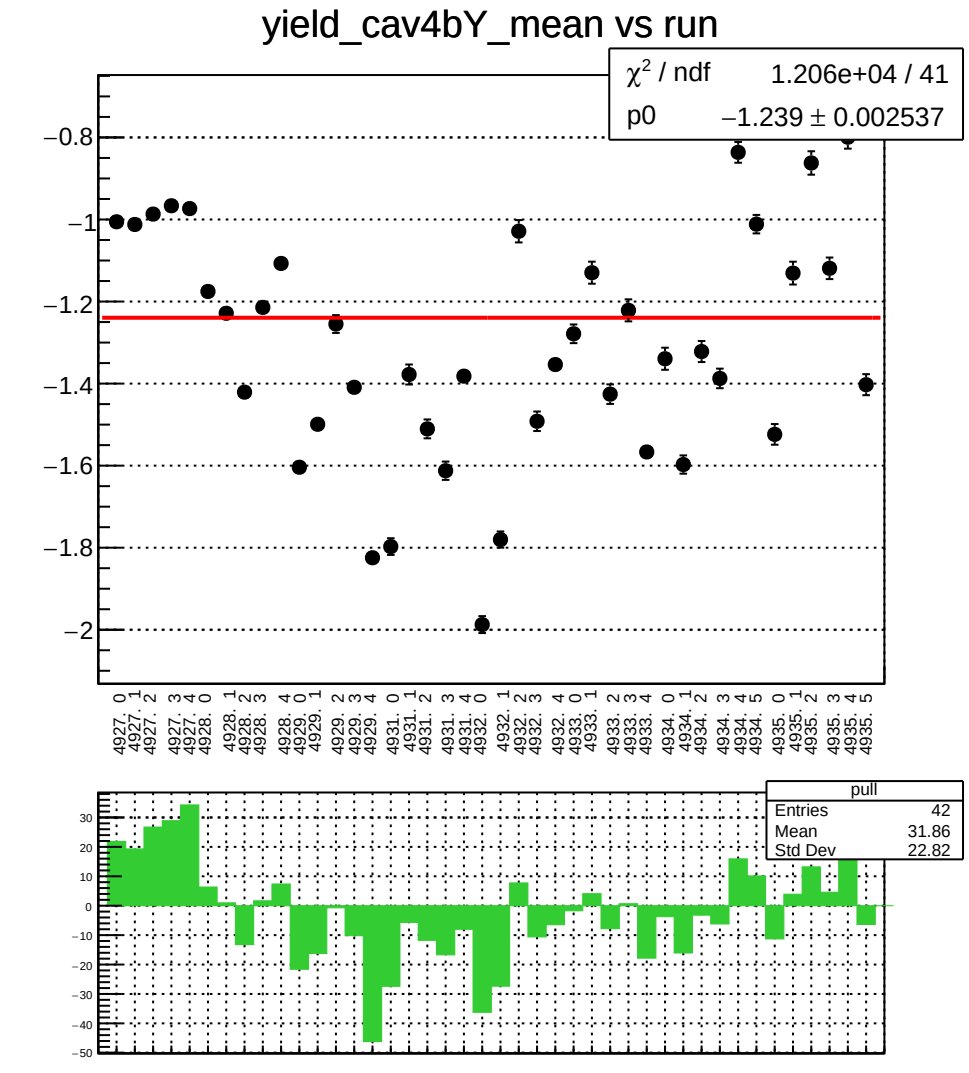

bcm_dg_ds_ds_dd_mean vs run
χ² / ndf 44.95 / 41
p0 94.21 ± 42.06
2000
1000
0
−1000
−2000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 27.17
Std Dev 22.73
2
1
0
−1
−2
pull1D
Entries 42
Mean 0.06166
Std Dev 1.033
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

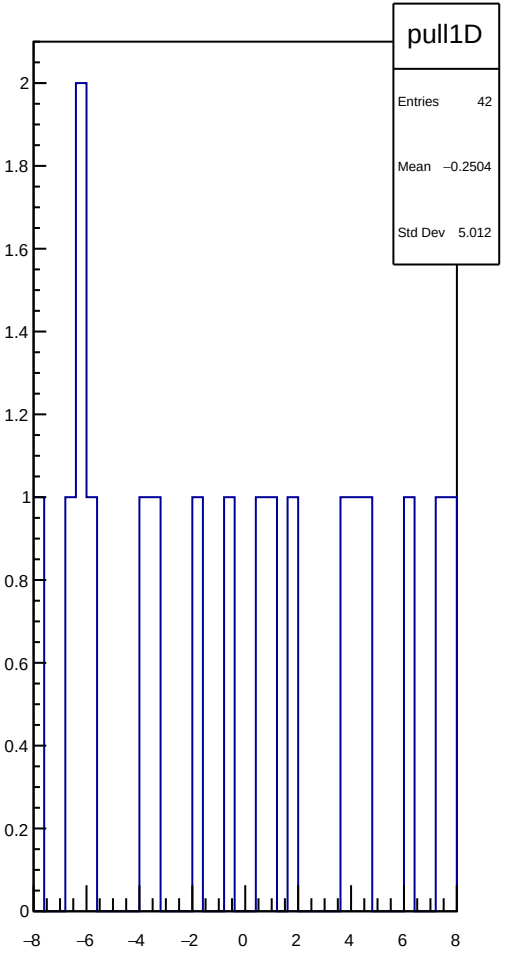

bcm_dg_ds_ds_dd_rms vs run
χ² / ndf 2.08e+05 / 41
p0 23.54 ± 0.02974
90
80
70
60
50
40
30
20
10
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

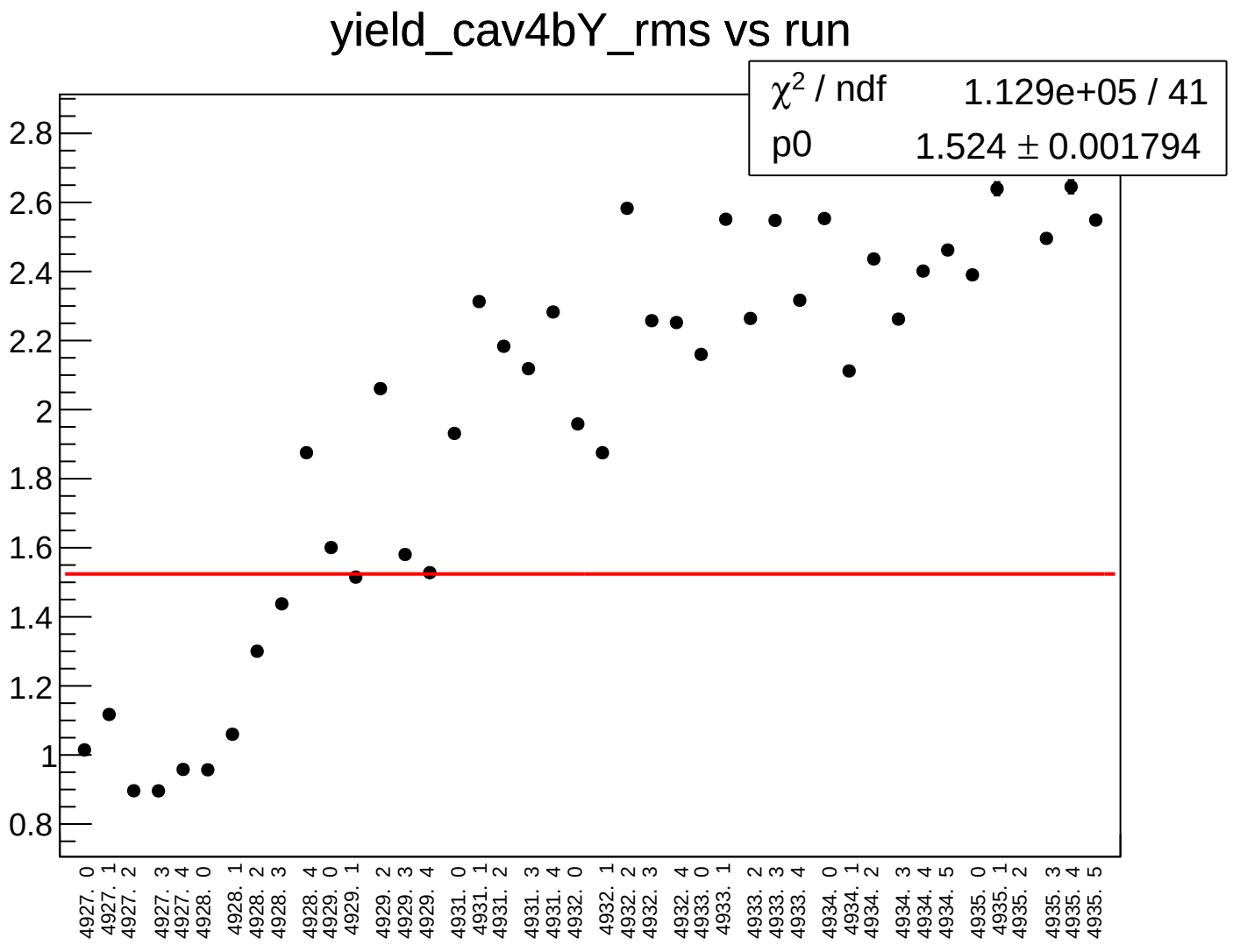

yield_cav4bX_mean vs run
χ² / ndf 1.14e+05 / 41
p0 −0.789 ± 0.003787
pull
Entries 42
Mean 375.2
Std Dev 356.7

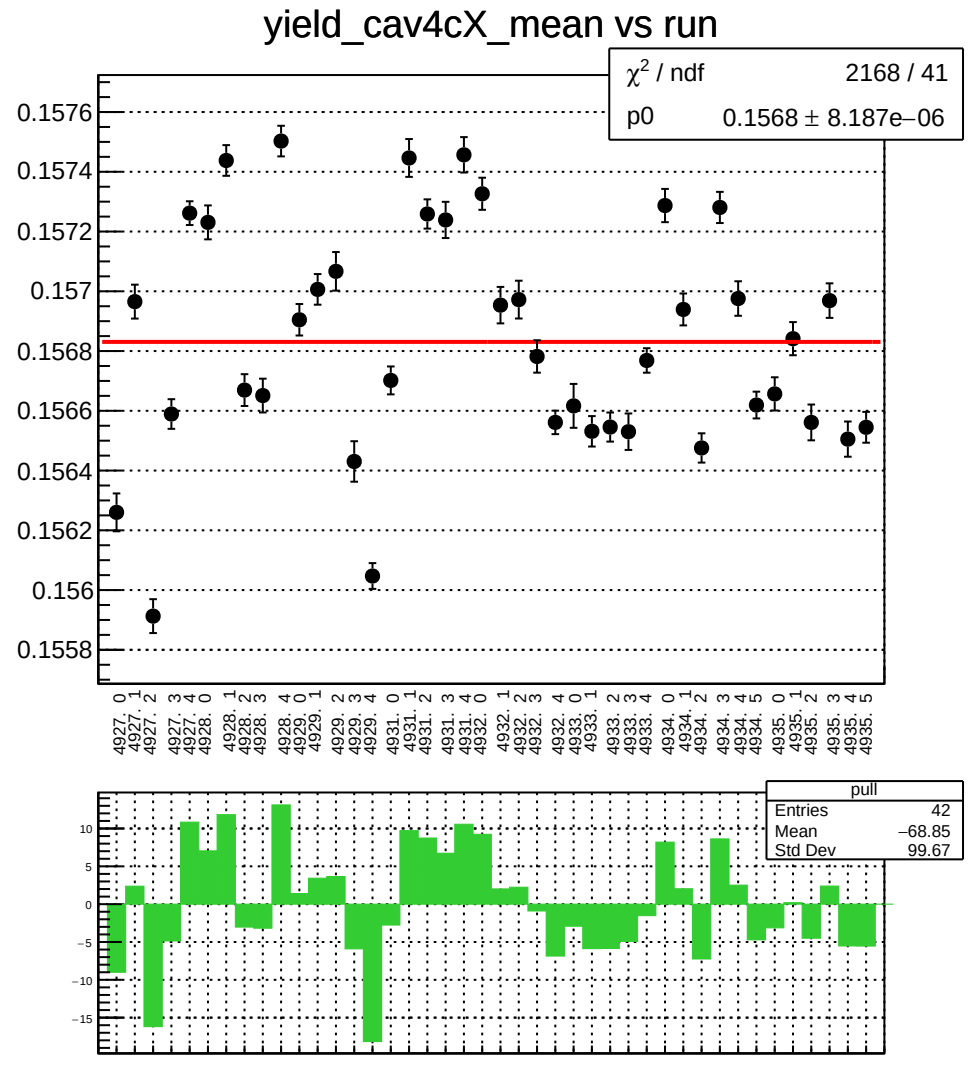

pull1D
Entries 42
Mean −0.7206
Std Dev 2.184

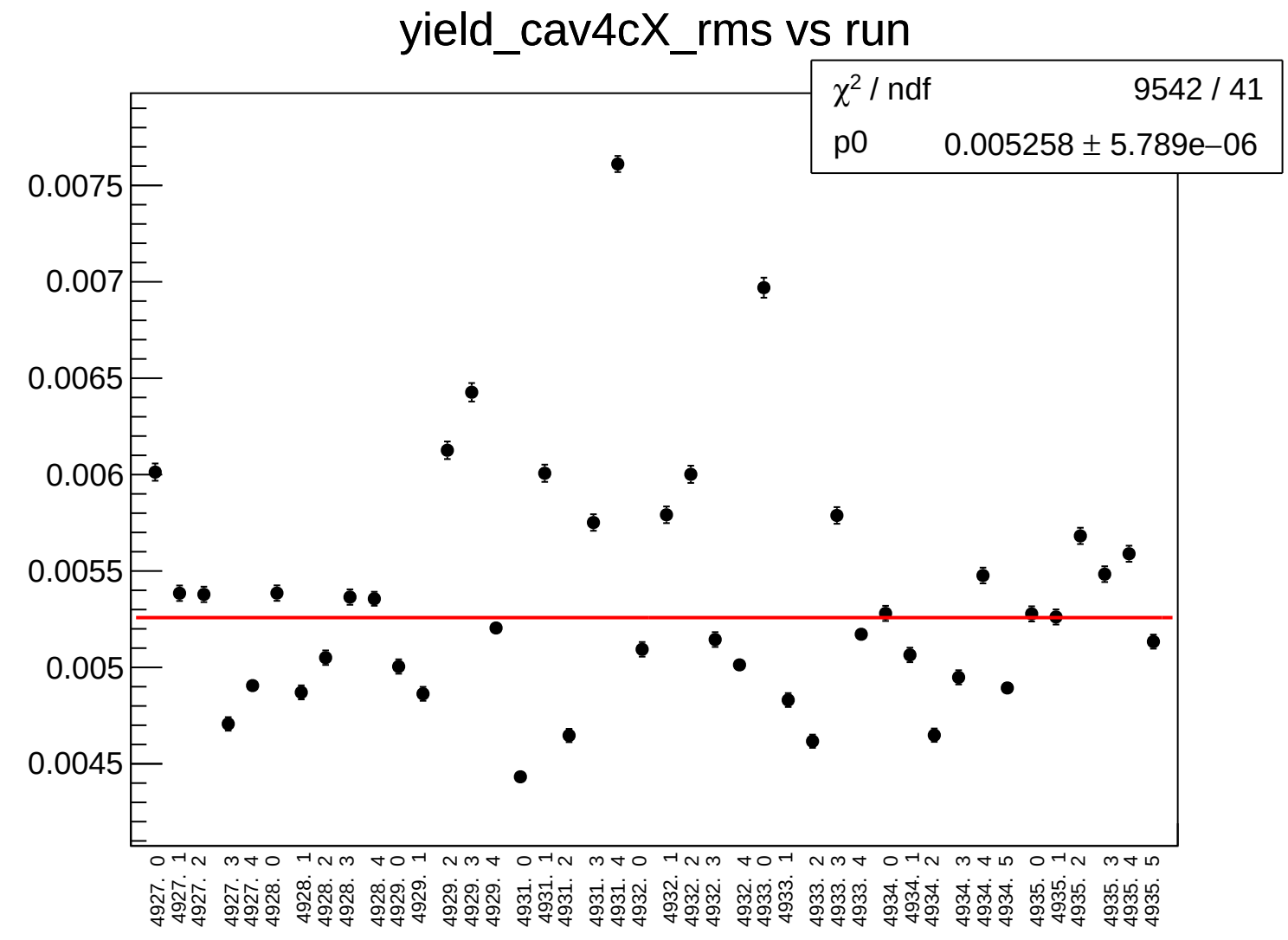

yield_cav4bX_rms vs run
χ^2 / ndf 4.757e+04 / 41
p0 2.375 ± 0.002678
5
4.5
4
3.5
3
2.5
2
1.5
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

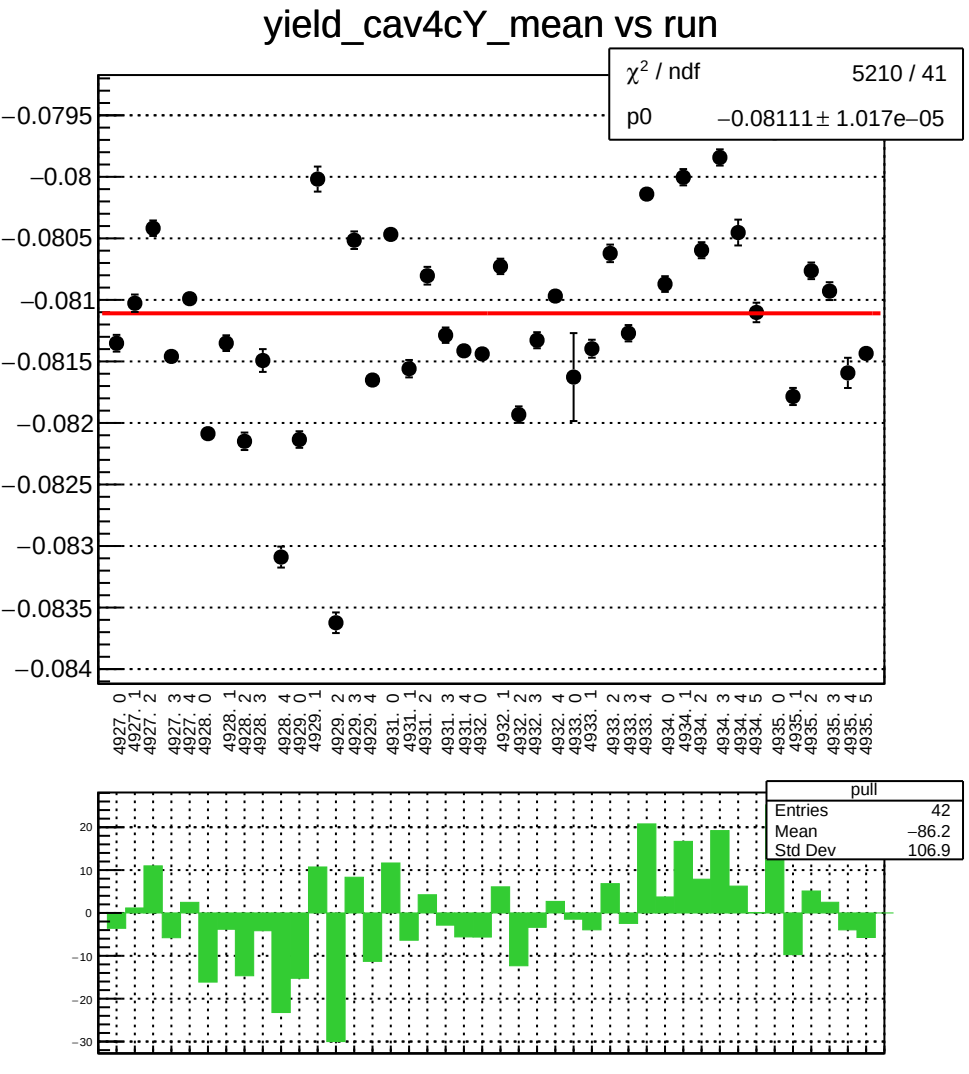

yield_cav4bY_mean vs run
χ² / ndf 1.206e+04 / 41
p0 −1.239 ± 0.002537
pull
Entries 42
Mean 31.86
Std Dev 22.82

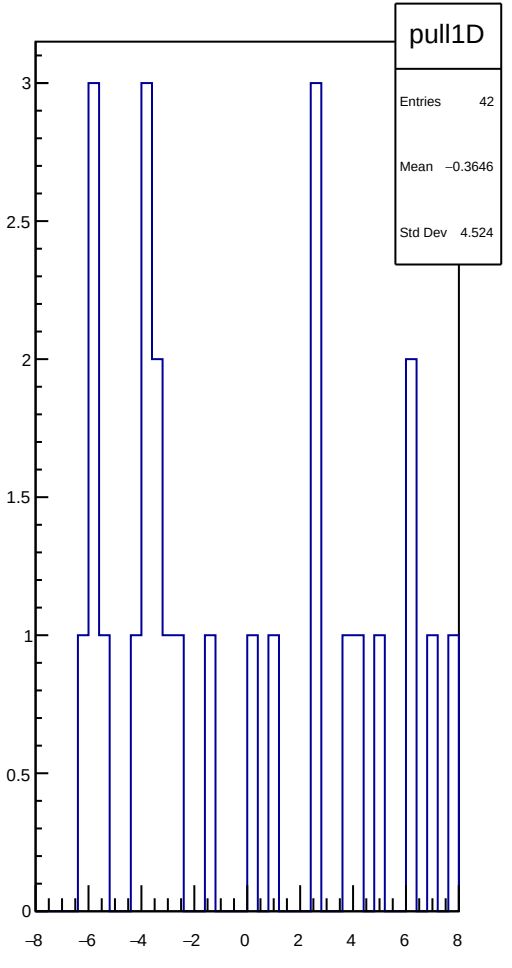

pull1D
Entries 42
Mean −0.2504
Std Dev 5.012

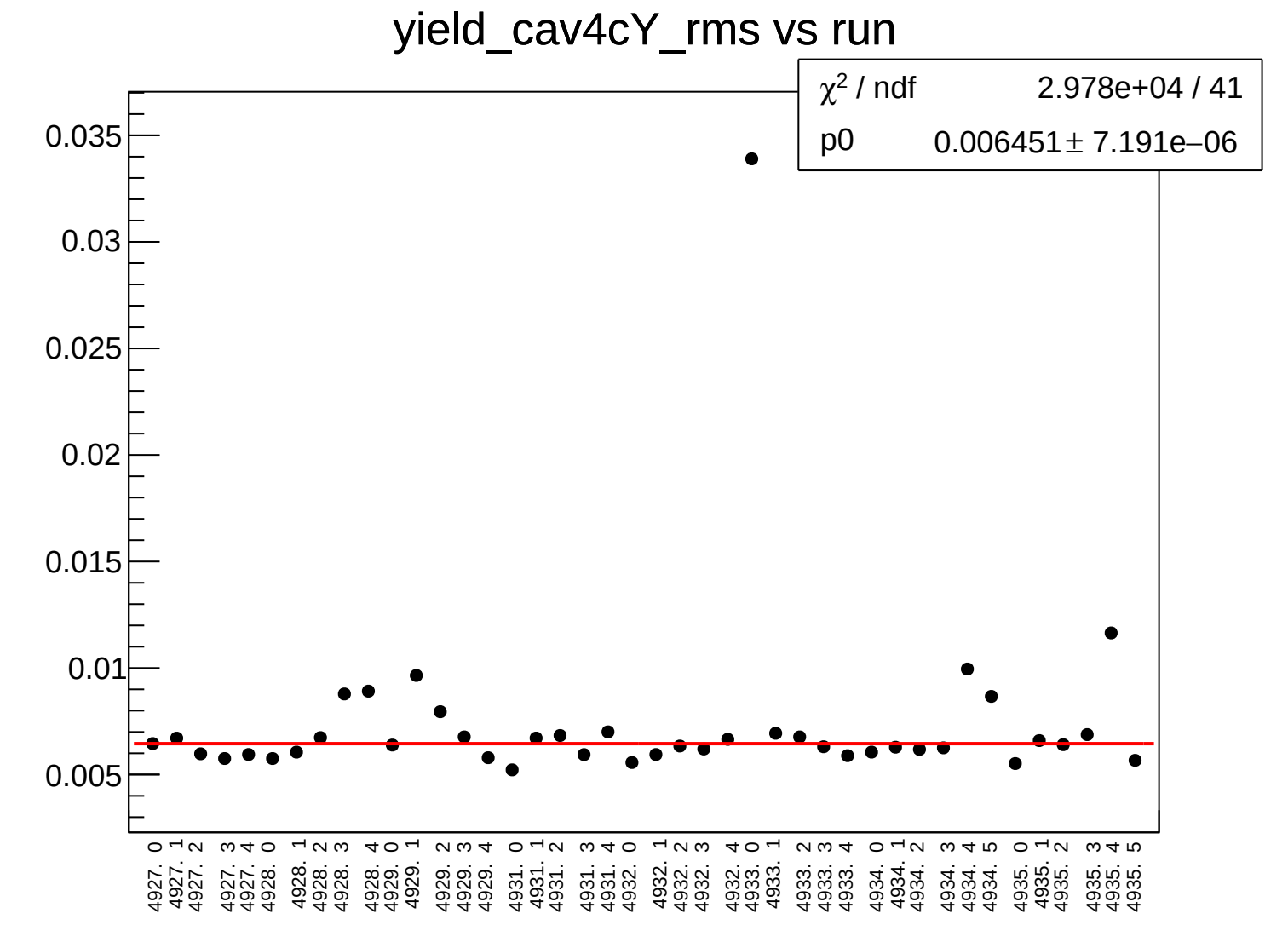

yield_cav4bY_rms vs run
χ² / ndf 1.129e+05 / 41
p0 1.524 ± 0.001794
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

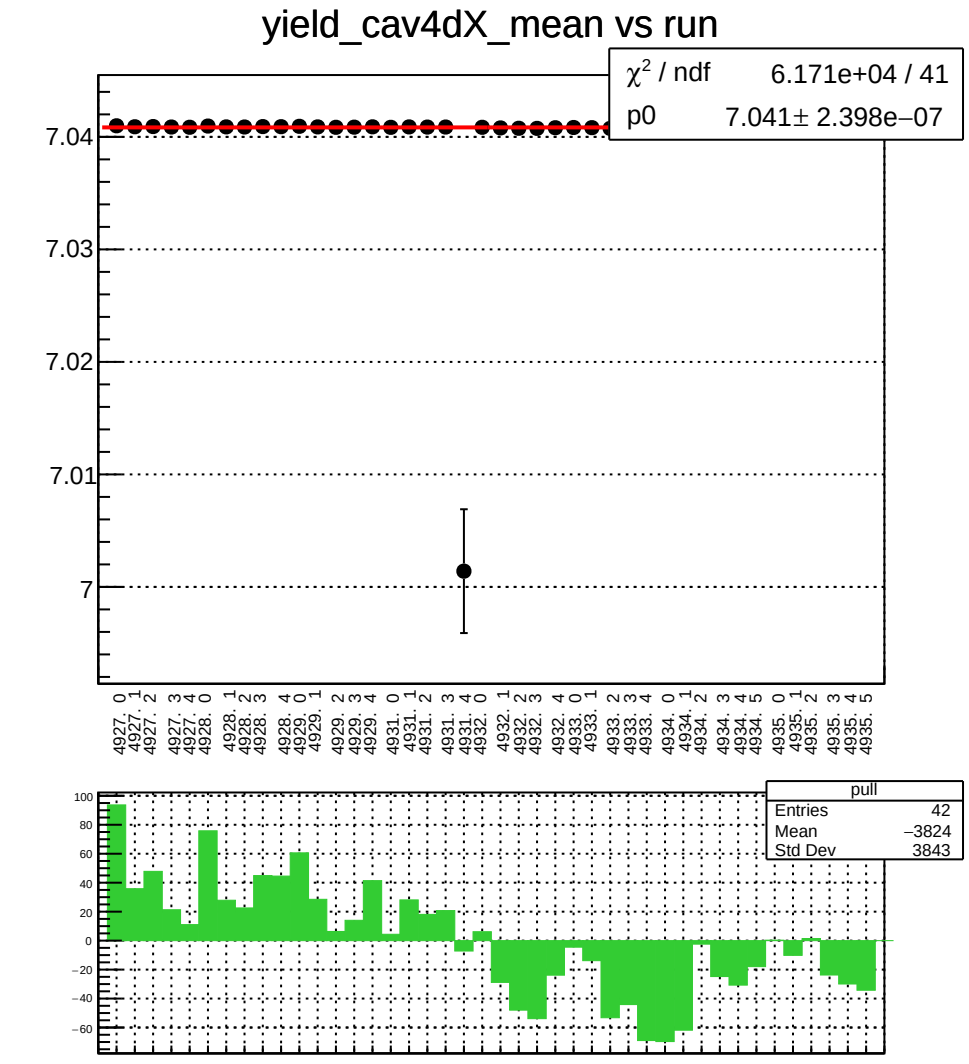

yield_cav4cX_mean vs run
χ² / ndf 2168 / 41
p0 0.1568 ± 8.187e−06
0.1576
0.1574
0.1572
0.157
0.1568
0.1566
0.1564
0.1562
0.156
0.1558
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −68.85
Std Dev 99.67
10
5
0
−5
−10
−15
pull1D
Entries 42
Mean −1.441
Std Dev 4.058
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

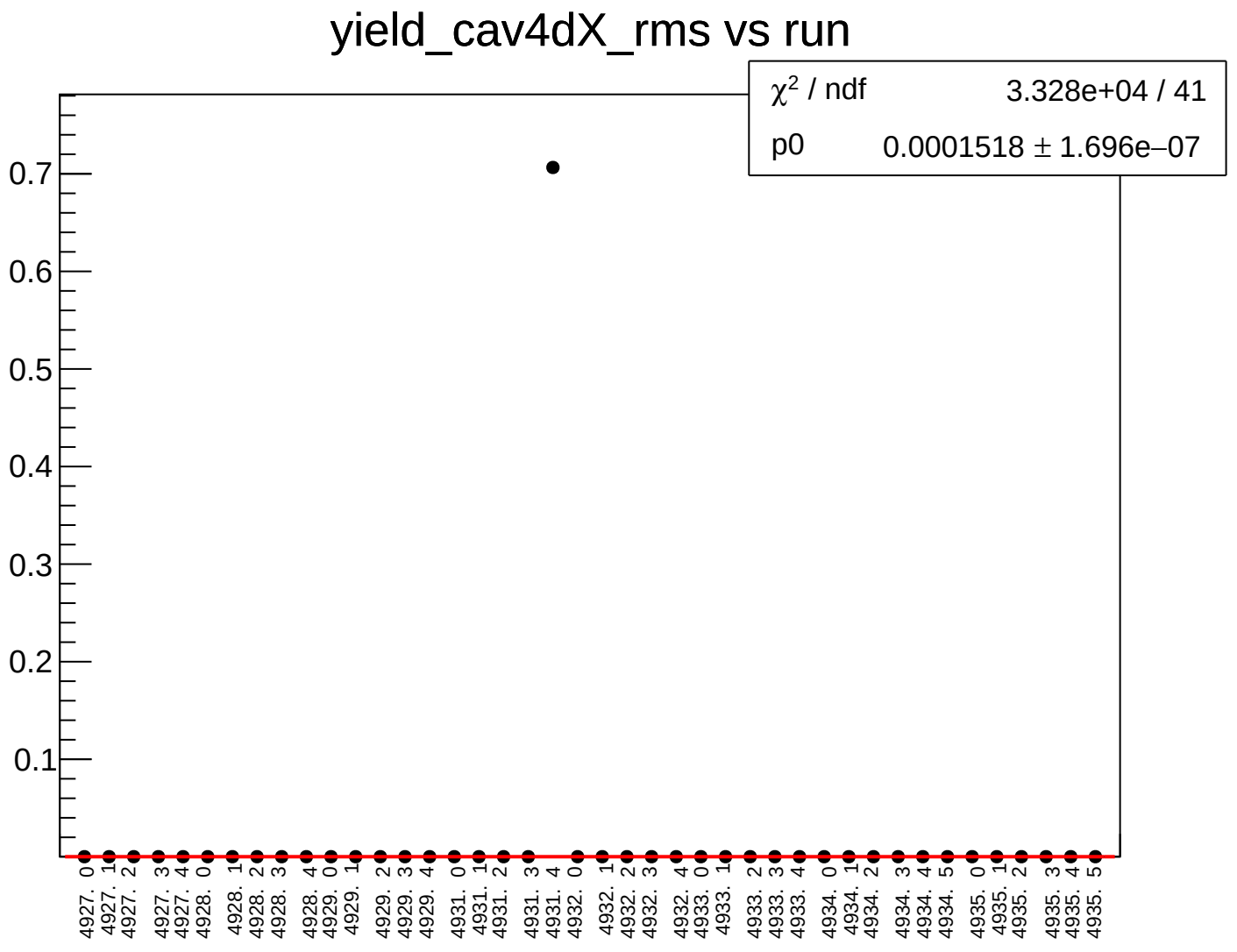

yield_cav4cX_rms vs run
χ² / ndf 9542 / 41
p0 0.005258 ± 5.789e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

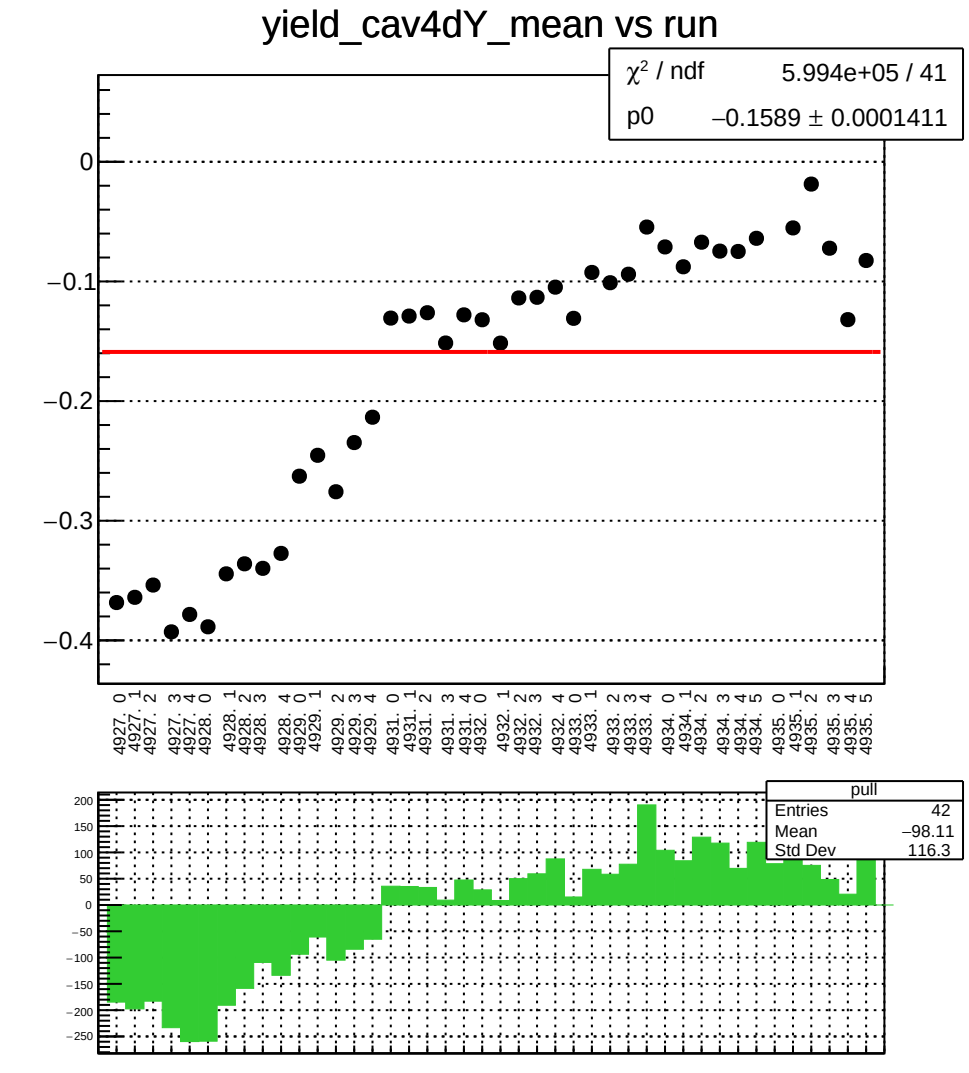

yield_cav4cY_mean vs run
χ² / ndf 5210 / 41
p0 −0.08111 ± 1.017e−05
−0.0795
−0.08
−0.0805
−0.081
−0.0815
−0.082
−0.0825
−0.083
−0.0835
−0.084
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −86.2
Std Dev 106.9
20
10
0
−10
−20
−30

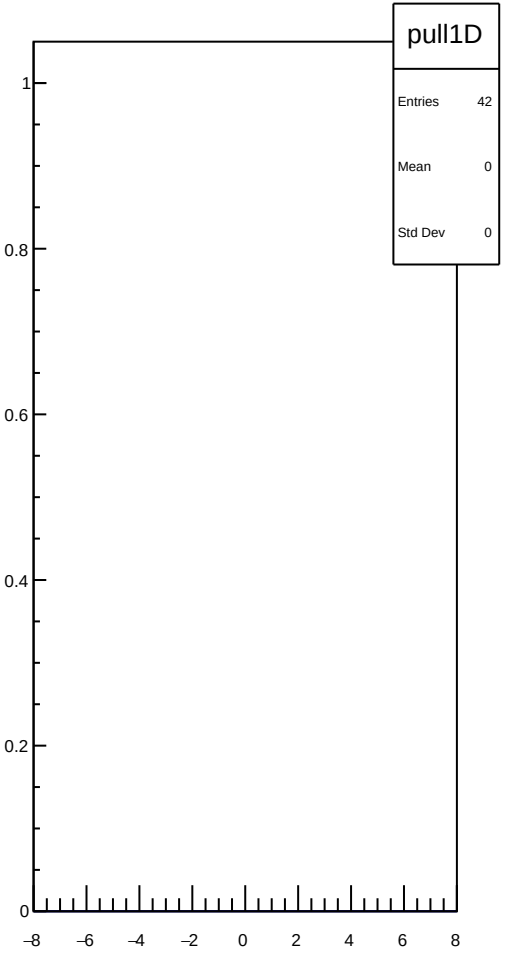

pull1D
Entries 42
Mean −0.3646
Std Dev 4.524
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

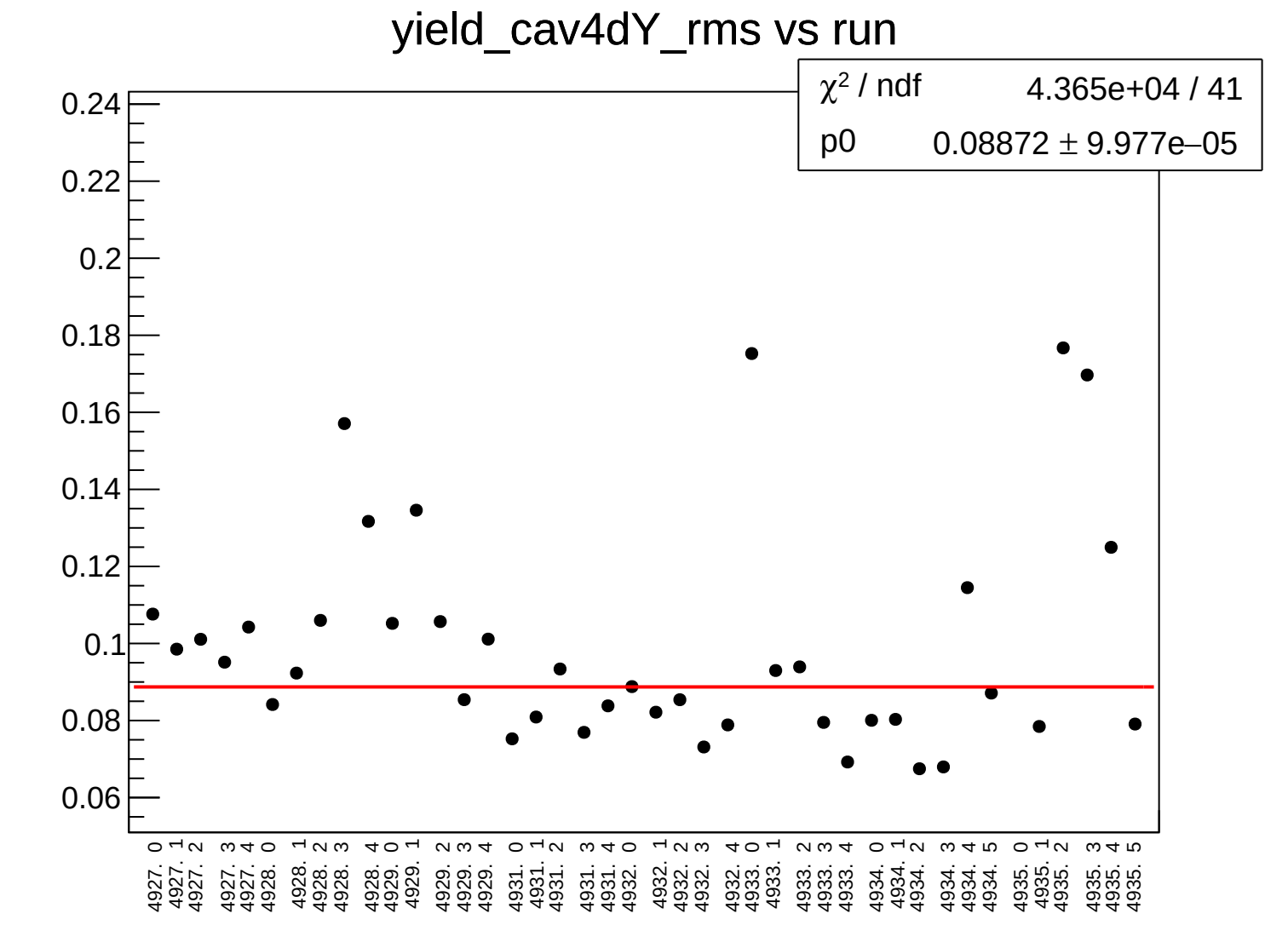

yield_cav4cY_rms vs run
χ² / ndf 2.978e+04 / 41
p0 0.006451 ± 7.191e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

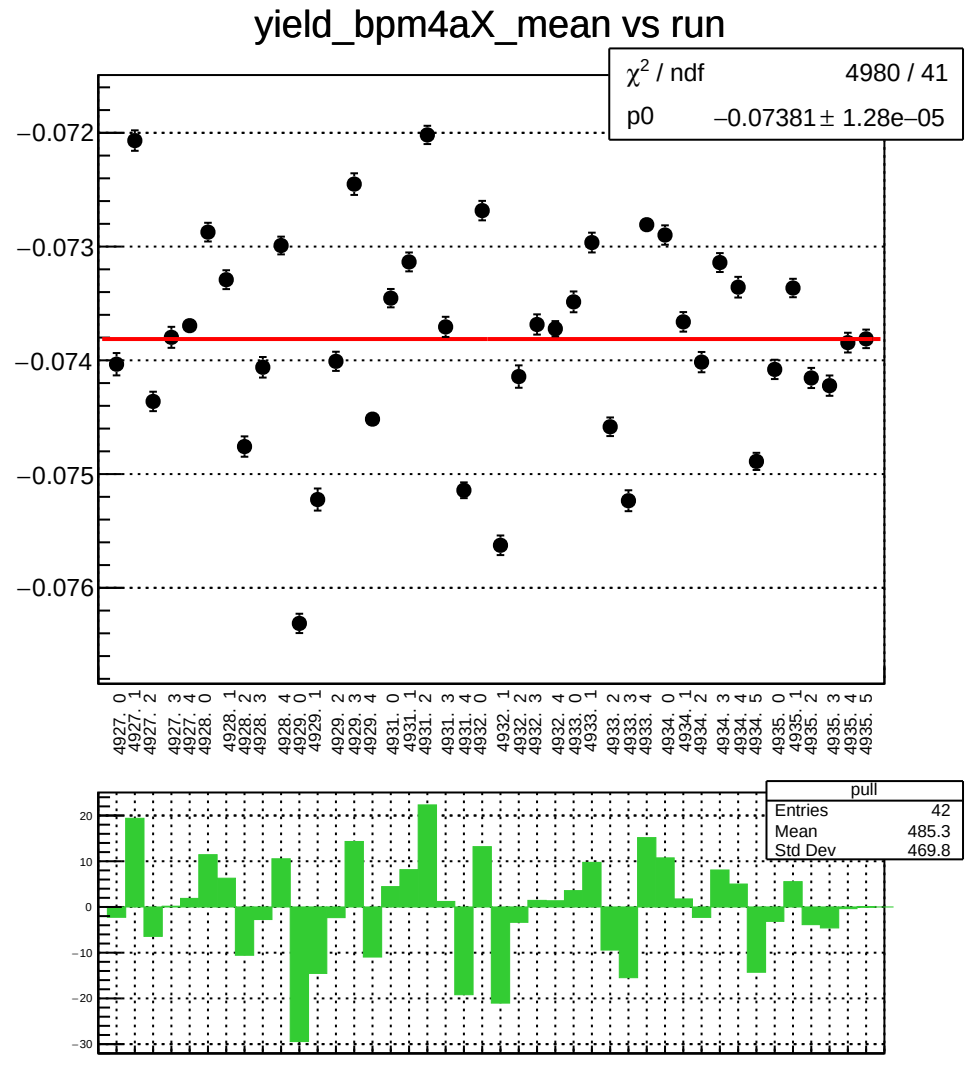

yield_cav4dX_mean vs run
χ² / ndf 6.171e+04 / 41
p0 7.041± 2.398e−07
7.04
7.03
7.02
7.01
7
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −3824
Std Dev 3843
100
80
60
40
20
0
−20
−40
−60
pull1D
Entries 42
Mean 0.5629
Std Dev 4.662
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

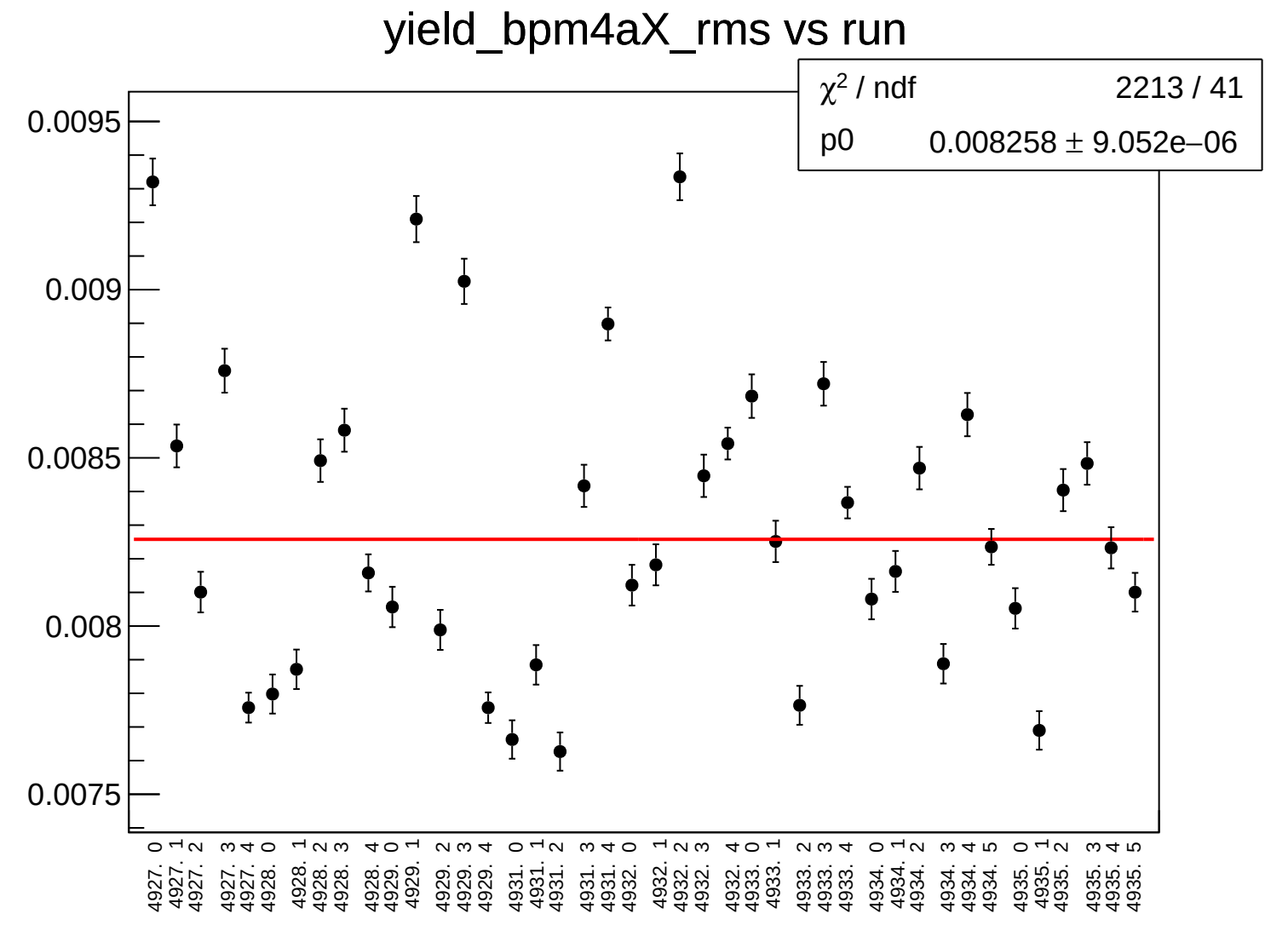

yield_cav4dX_rms vs run
χ² / ndf 3.328e+04 / 41
p0 0.0001518 ± 1.696e−07
0.7
0.6
0.5
0.4
0.3
0.2
0.1
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

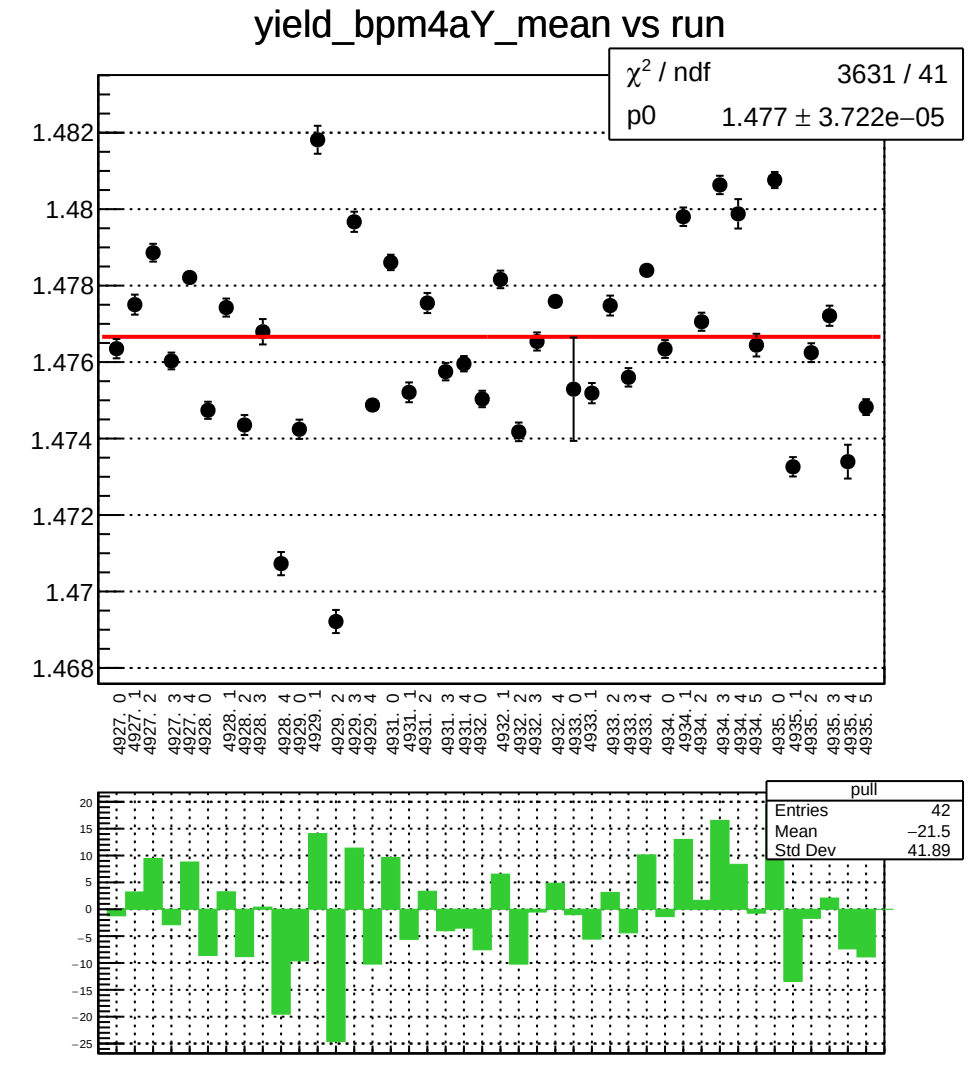

yield_cav4dY_mean vs run
χ² / ndf 5.994e+05 / 41
p0 −0.1589 ± 0.0001411
0
−0.1
−0.2
−0.3
−0.4
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −98.11
Std Dev 116.3
200
150
100
50
0
−50
−100
−150
−200
−250

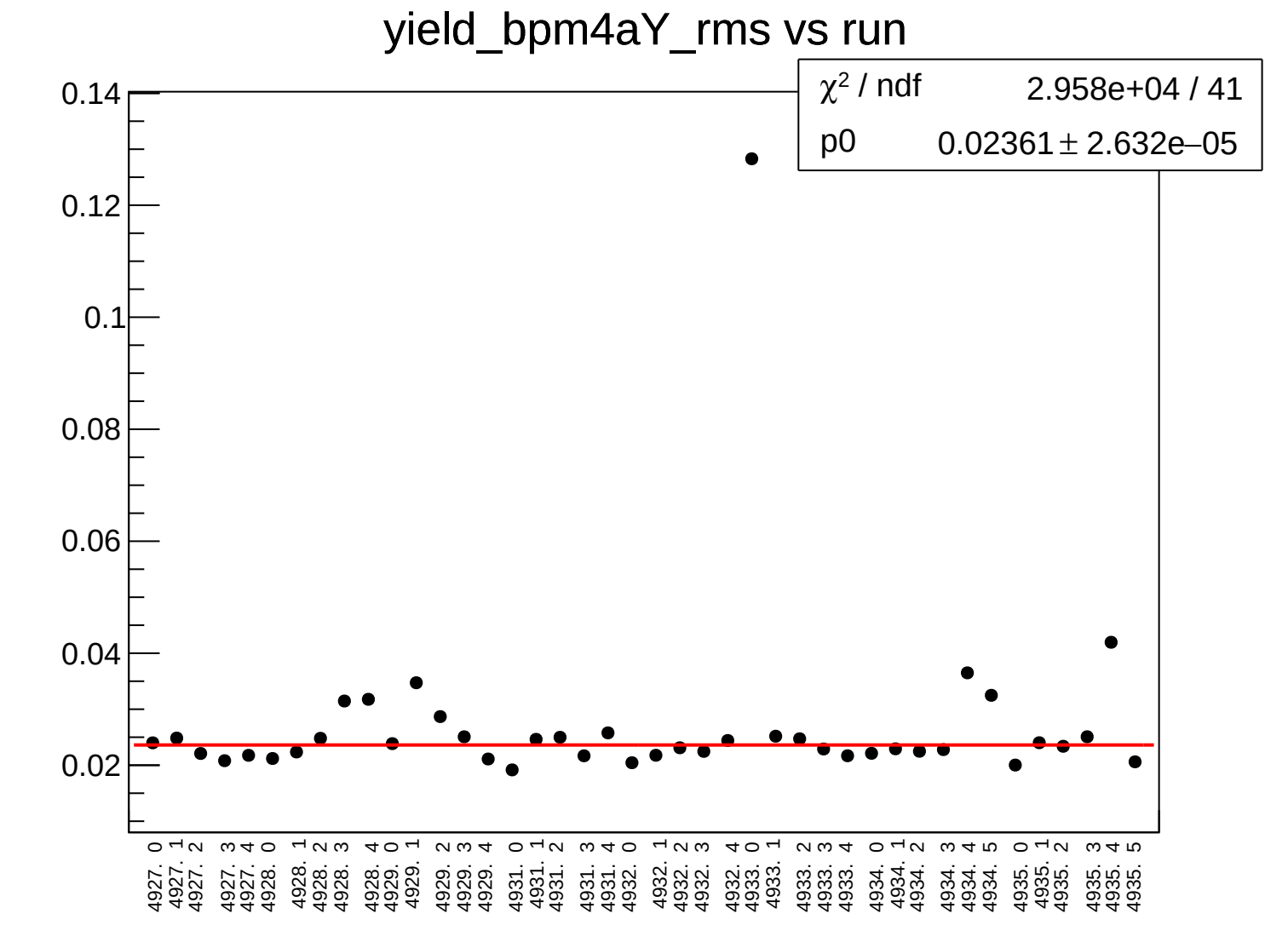

pull1D
Entries 42
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

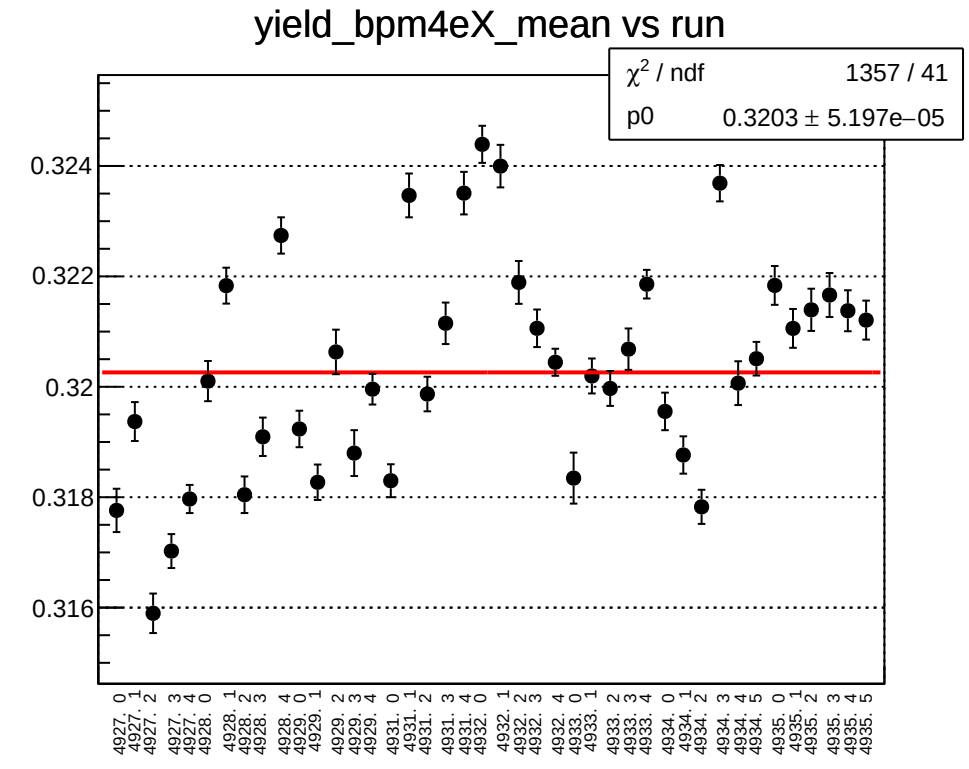

yield_cav4dY_rms vs run
χ² / ndf 4.365e+04 / 41
p0 0.08872 ± 9.977e–05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

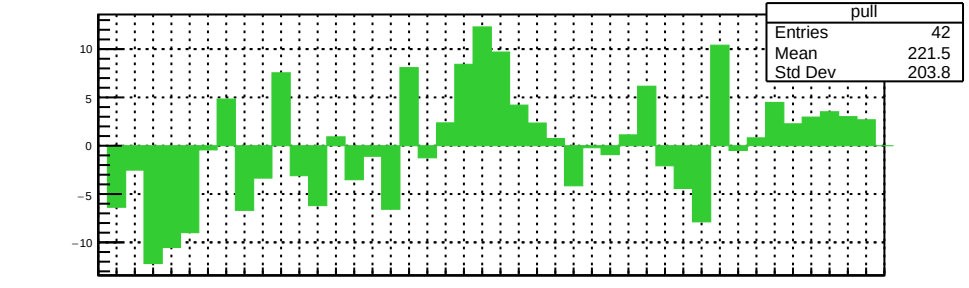

yield_bpm4aX_mean vs run
χ² / ndf 4980 / 41
p0 −0.07381 ± 1.28e−05
−0.072
−0.073
−0.074
−0.075
−0.076
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 485.3
Std Dev 469.8
20
10
0
−10
−20
−30
pull1D
Entries 42
Mean 0.06093
Std Dev 3.447
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

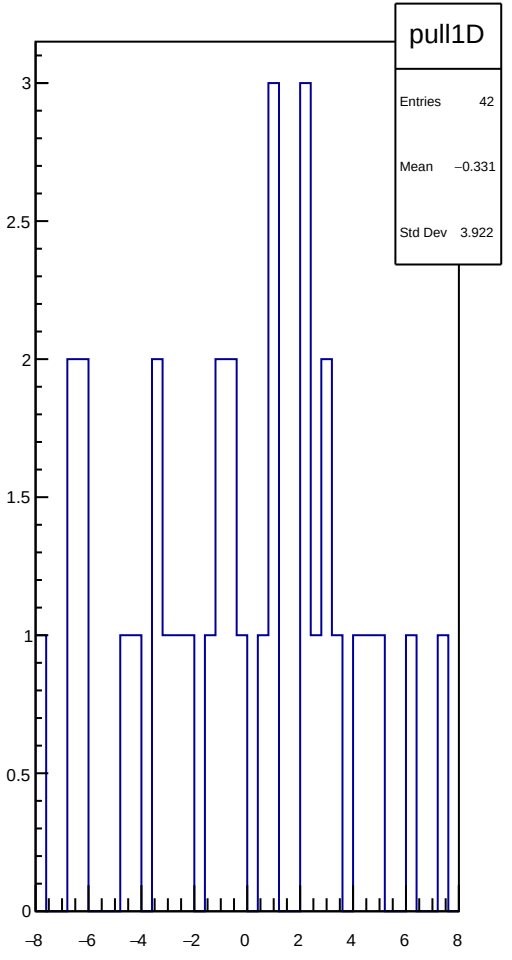

yield_bpm4aX_rms vs run
χ² / ndf 2213 / 41
p0 0.008258 ± 9.052e−06
0.0095
0.009
0.0085
0.008
0.0075
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

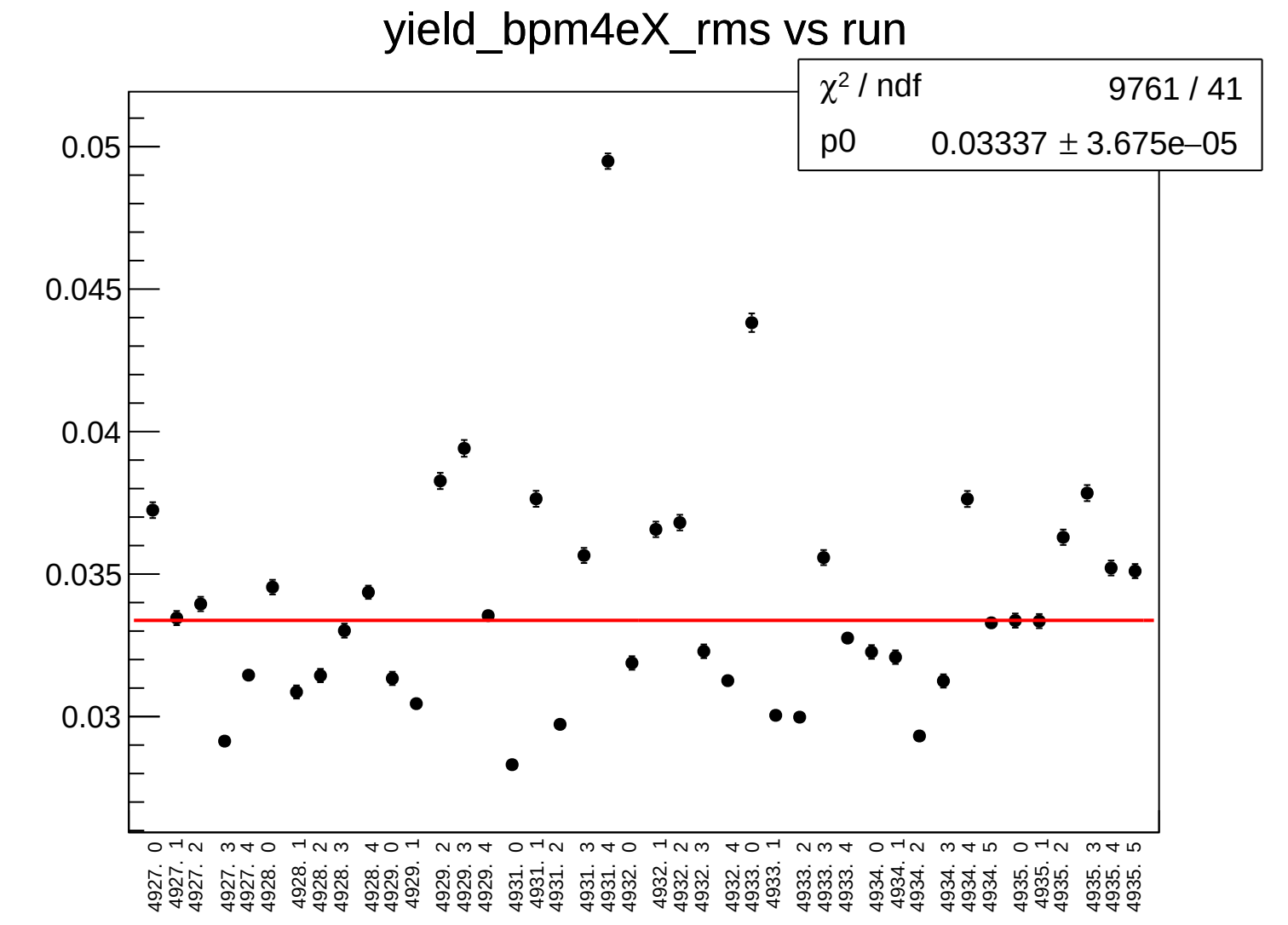

yield_bpm4aY_mean vs run
χ² / ndf 3631 / 41
p0 1.477 ± 3.722e−05
1.482
1.48
1.478
1.476
1.474
1.472
1.47
1.468
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −21.5
Std Dev 41.89
20
15
10
5
0
−5
−10
−15
−20
−25
pull1D
Entries 42
Mean −0.8216
Std Dev 3.829
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

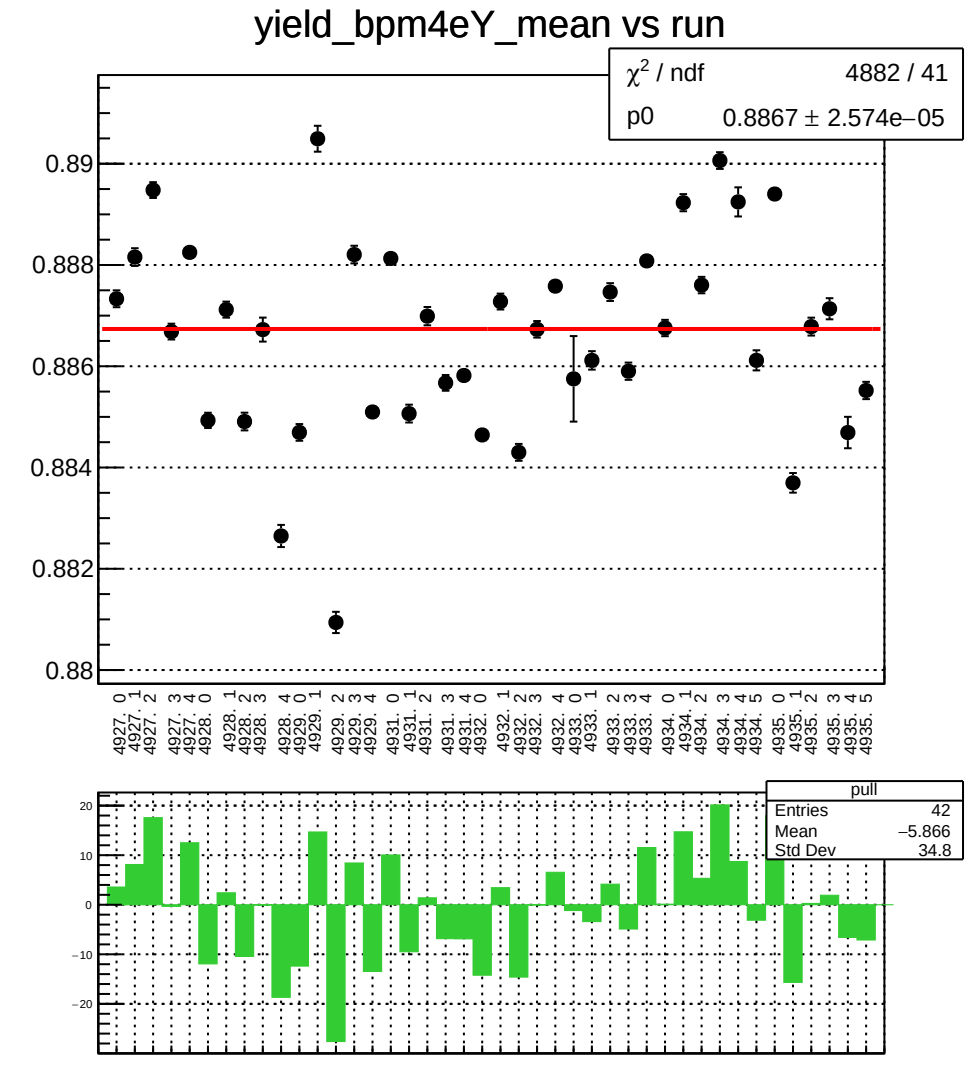

yield_bpm4aY_rms vs run
χ² / ndf 2.958e+04 / 41
p0 0.02361 ± 2.632e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

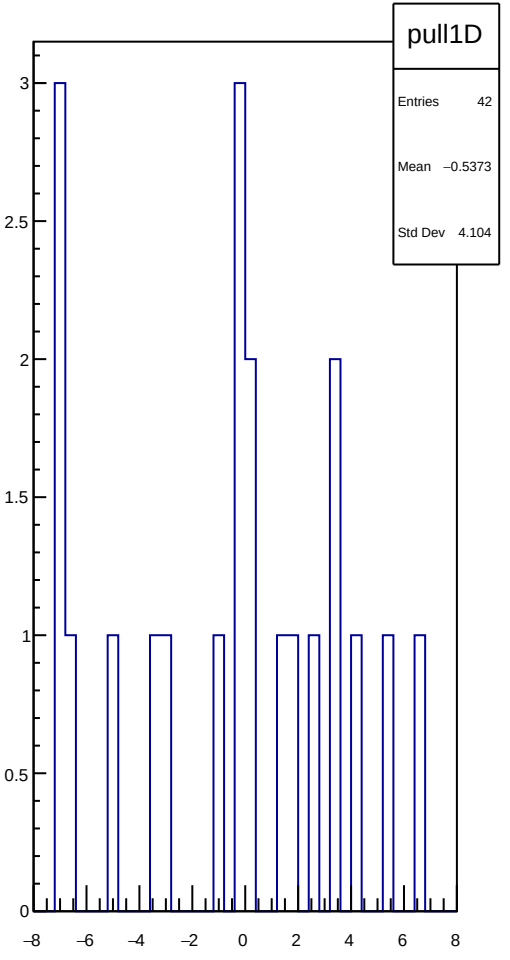

yield_bpm4eX_mean vs run
χ² / ndf 1357 / 41
p0 0.3203 ± 5.197e−05
0.324
0.322
0.32
0.318
0.316
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

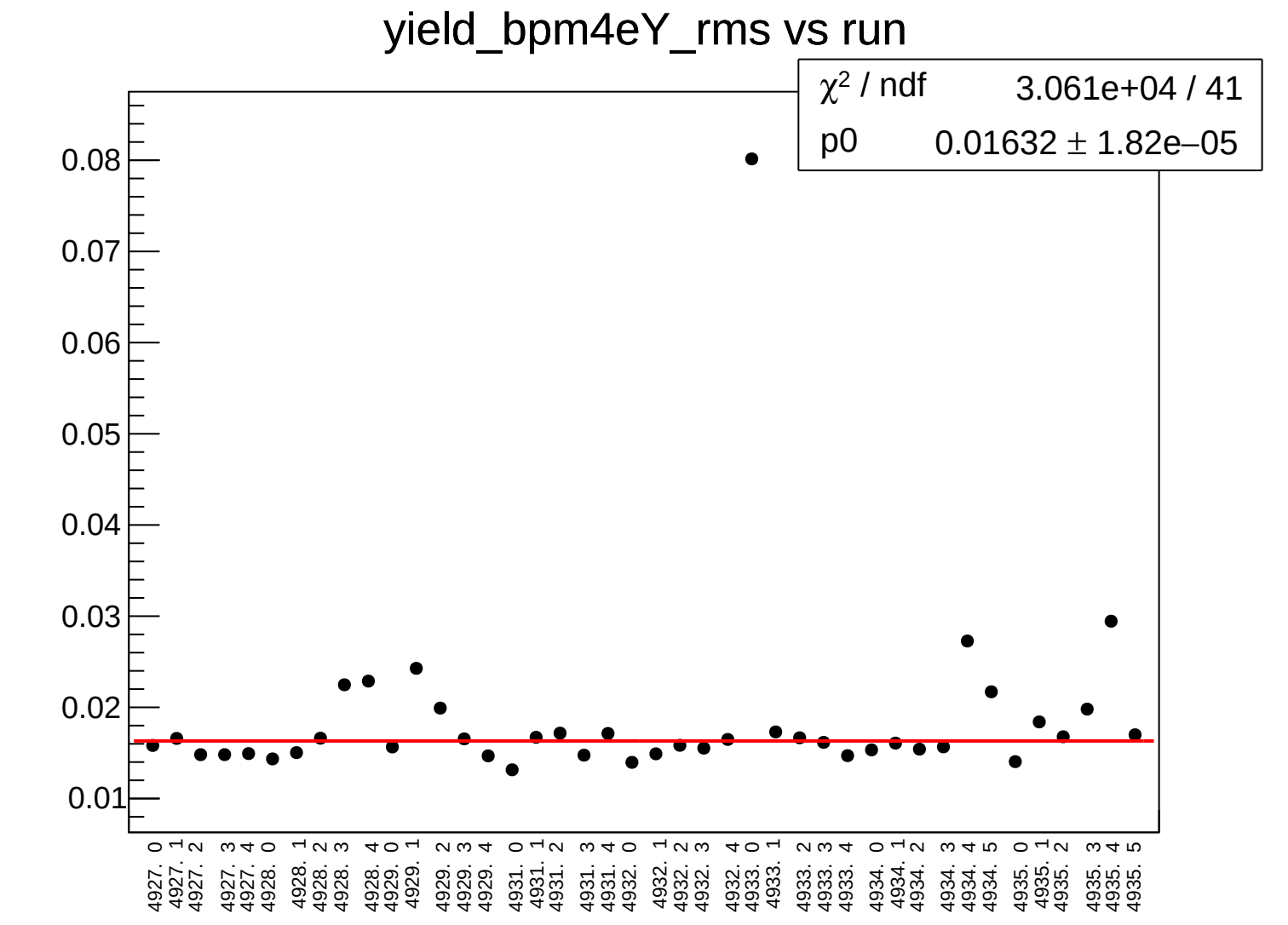

pull
Entries 42
Mean 221.5
Std Dev 203.8
10
5
0
−5
−10

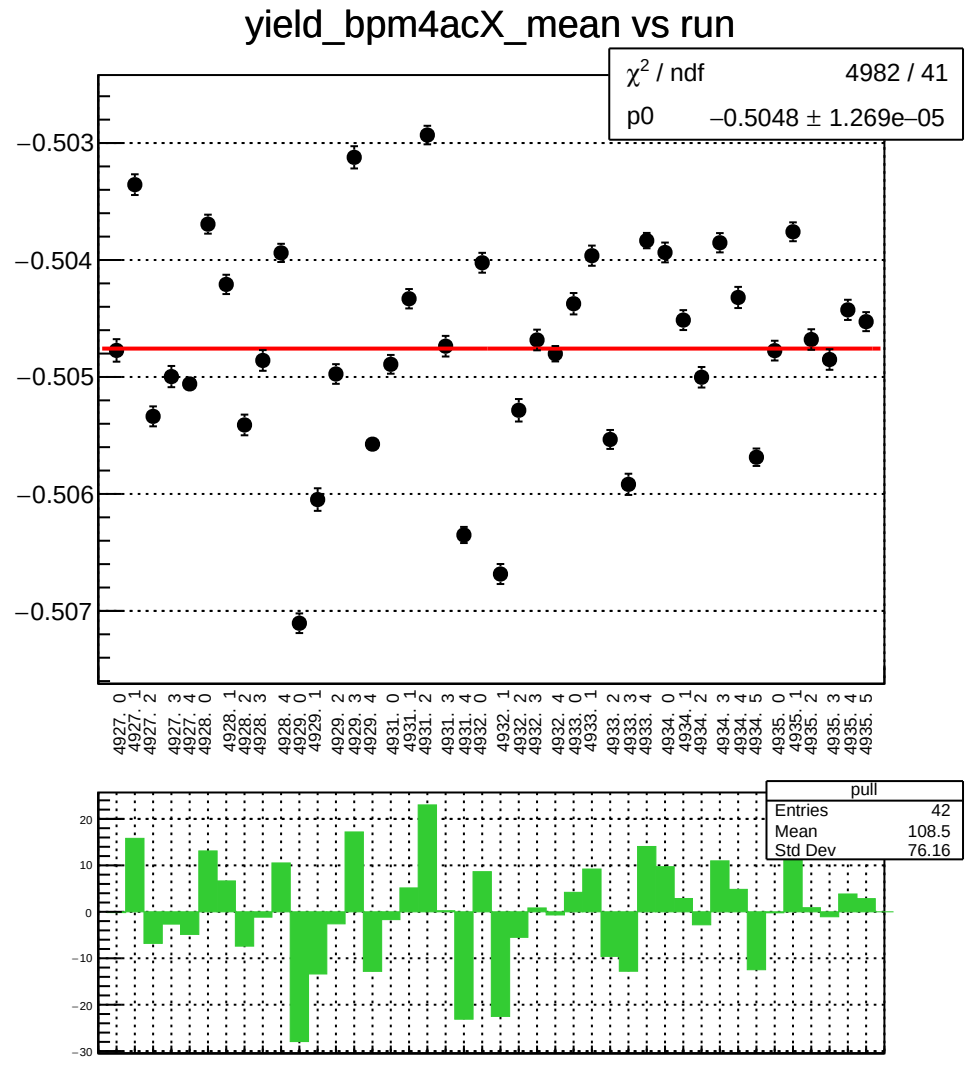

pull1D
Entries 42
Mean −0.331
Std Dev 3.922
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

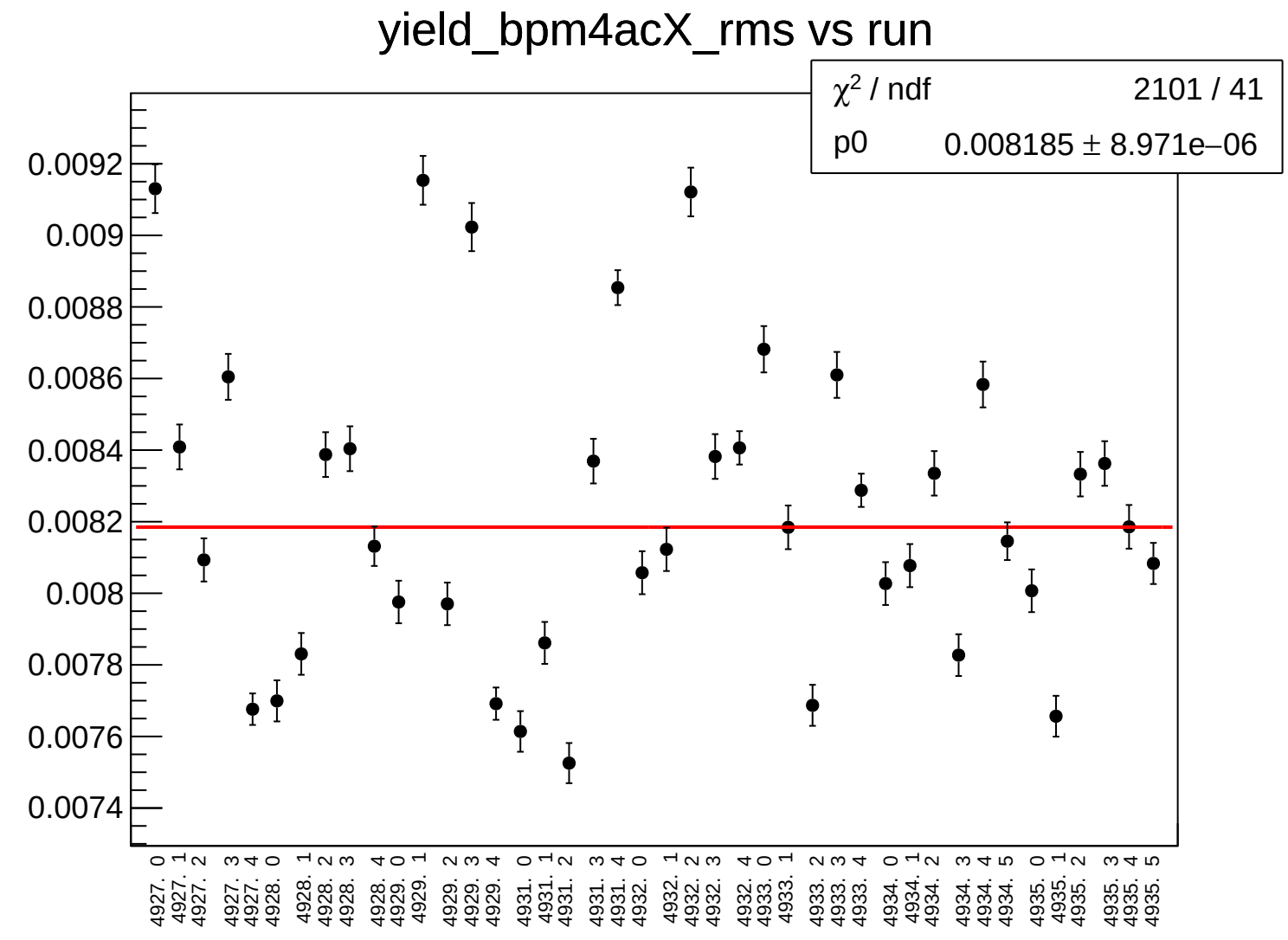

yield_bpm4eX_rms vs run
χ² / ndf 9761 / 41
p0 0.03337 ± 3.675e–05
0.05
0.045
0.04
0.035
0.03
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

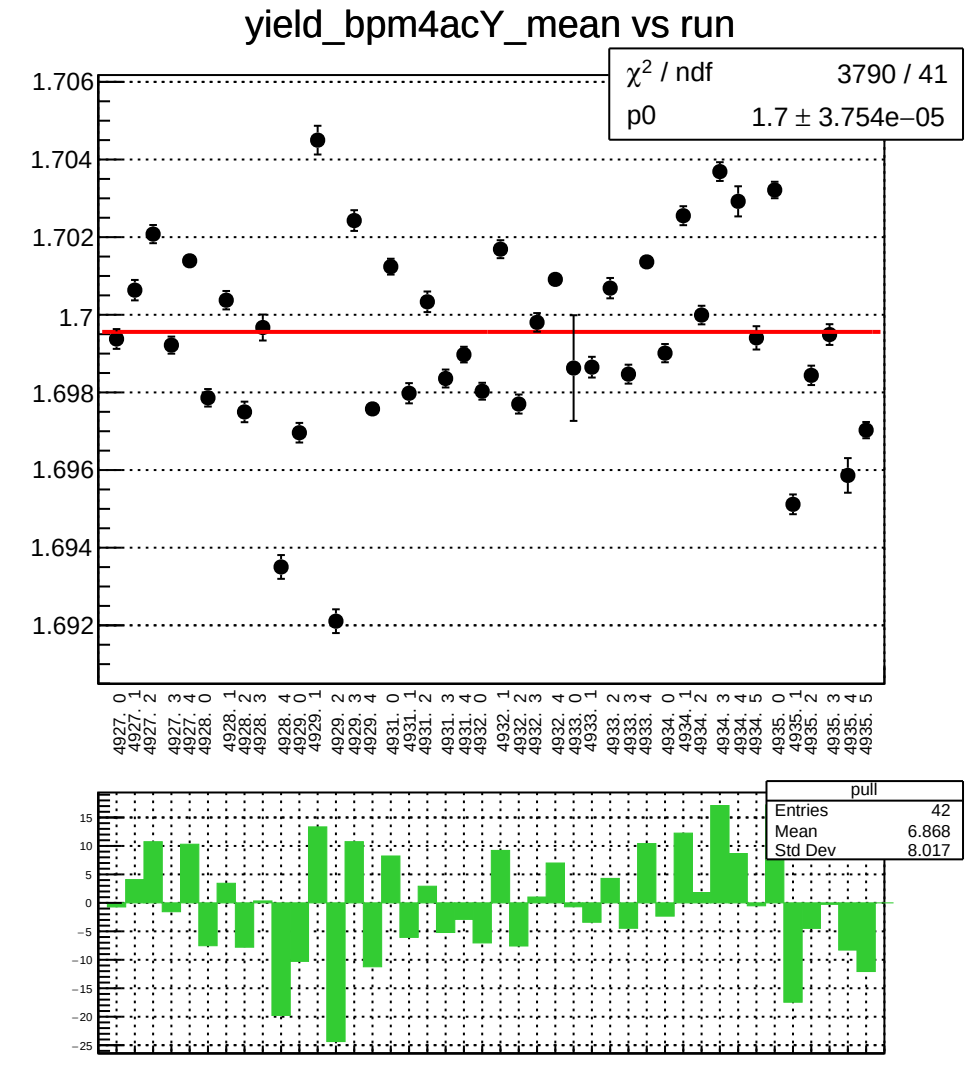

yield_bpm4eY_mean vs run
χ² / ndf 4882 / 41
p0 0.8867 ± 2.574e−05
0.89
0.888
0.886
0.884
0.882
0.88
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −5.866
Std Dev 34.8
20
10
0
−10
−20

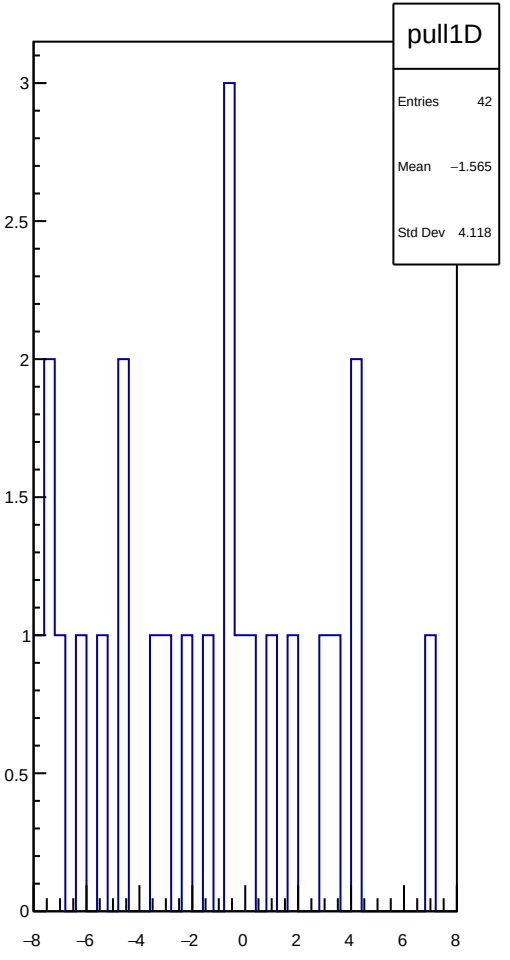

pull1D
Entries 42
Mean −0.5373
Std Dev 4.104
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

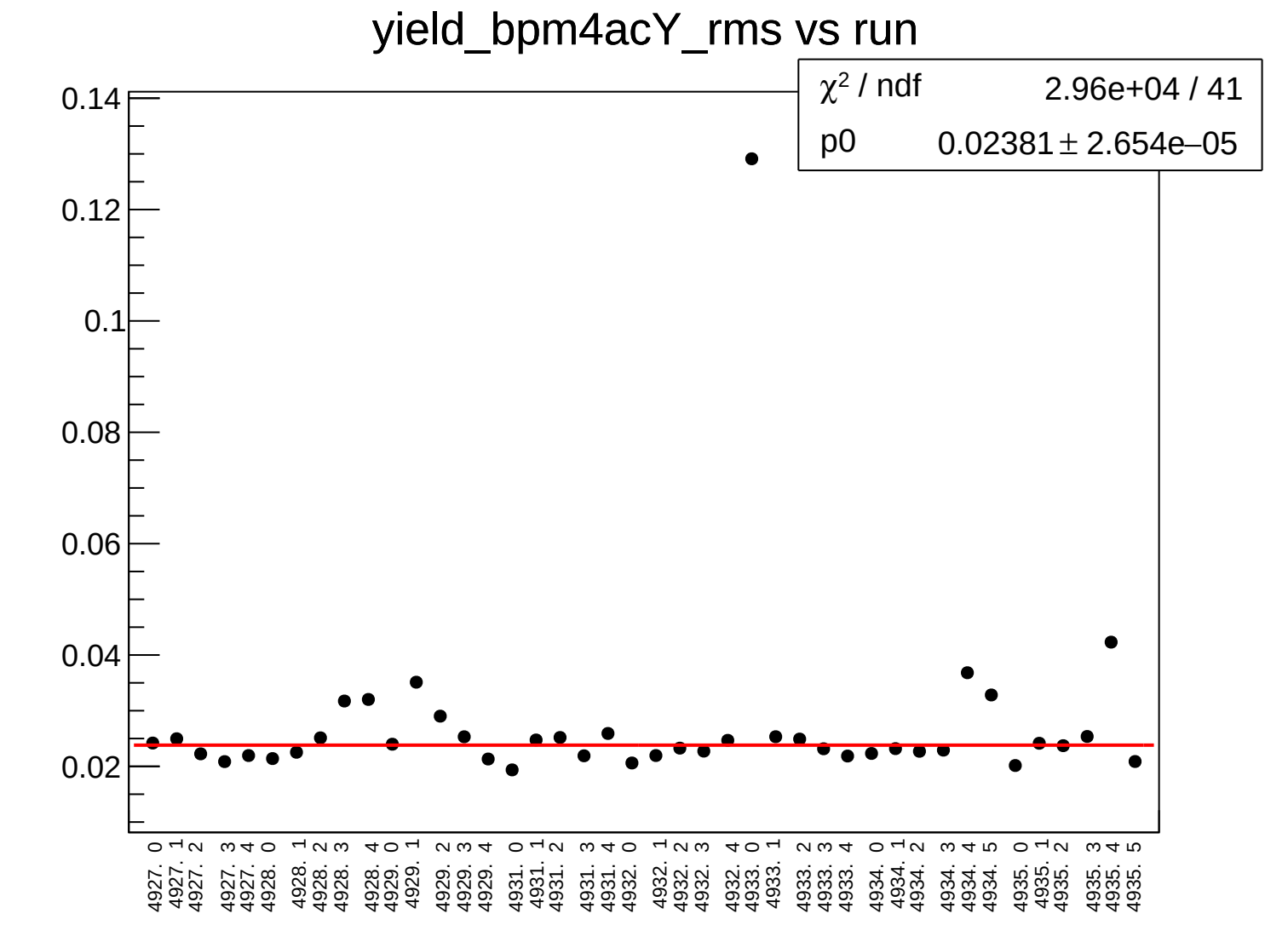

yield_bpm4eY_rms vs run
χ² / ndf 3.061e+04 / 41
p0 0.01632 ± 1.82e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

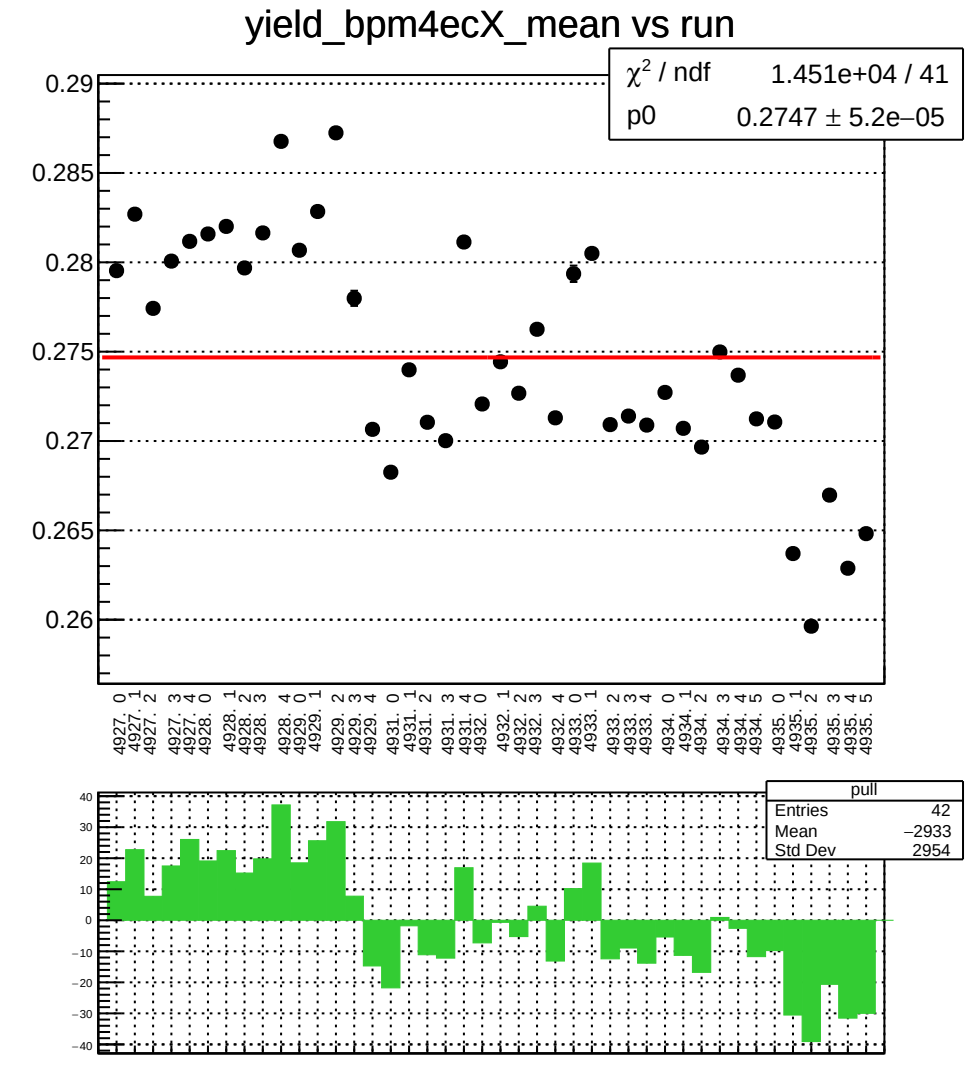

yield_bpm4acX_mean vs run
χ² / ndf 4982 / 41
p0 −0.5048 ± 1.269e−05
−0.503
−0.504
−0.505
−0.506
−0.507
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 108.5
Std Dev 76.16
20
10
0
−10
−20
−30
pull1D
Entries 42
Mean −0.2245
Std Dev 3.755
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

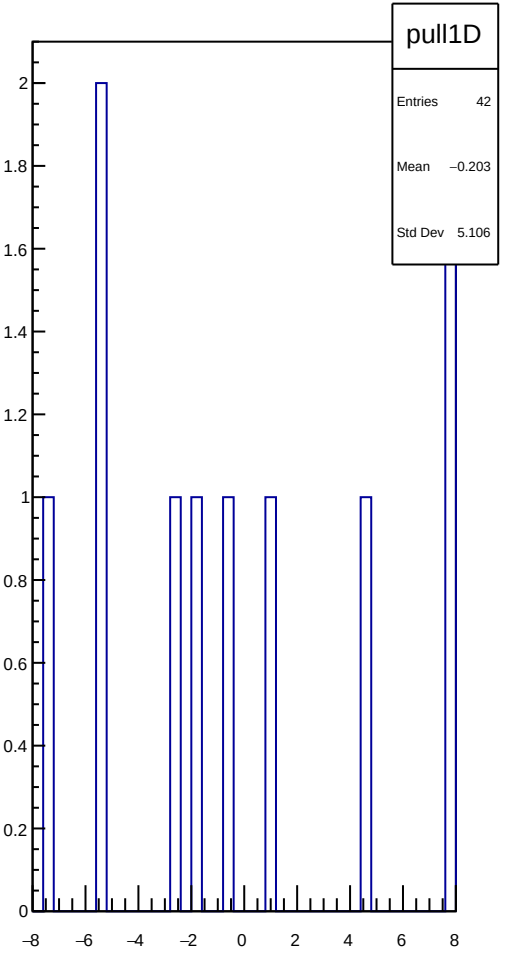

yield_bpm4acX_rms vs run
χ² / ndf 2101 / 41
p0 0.008185 ± 8.971e−06
0.0092
0.009
0.0088
0.0086
0.0084
0.0082
0.008
0.0078
0.0076
0.0074
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

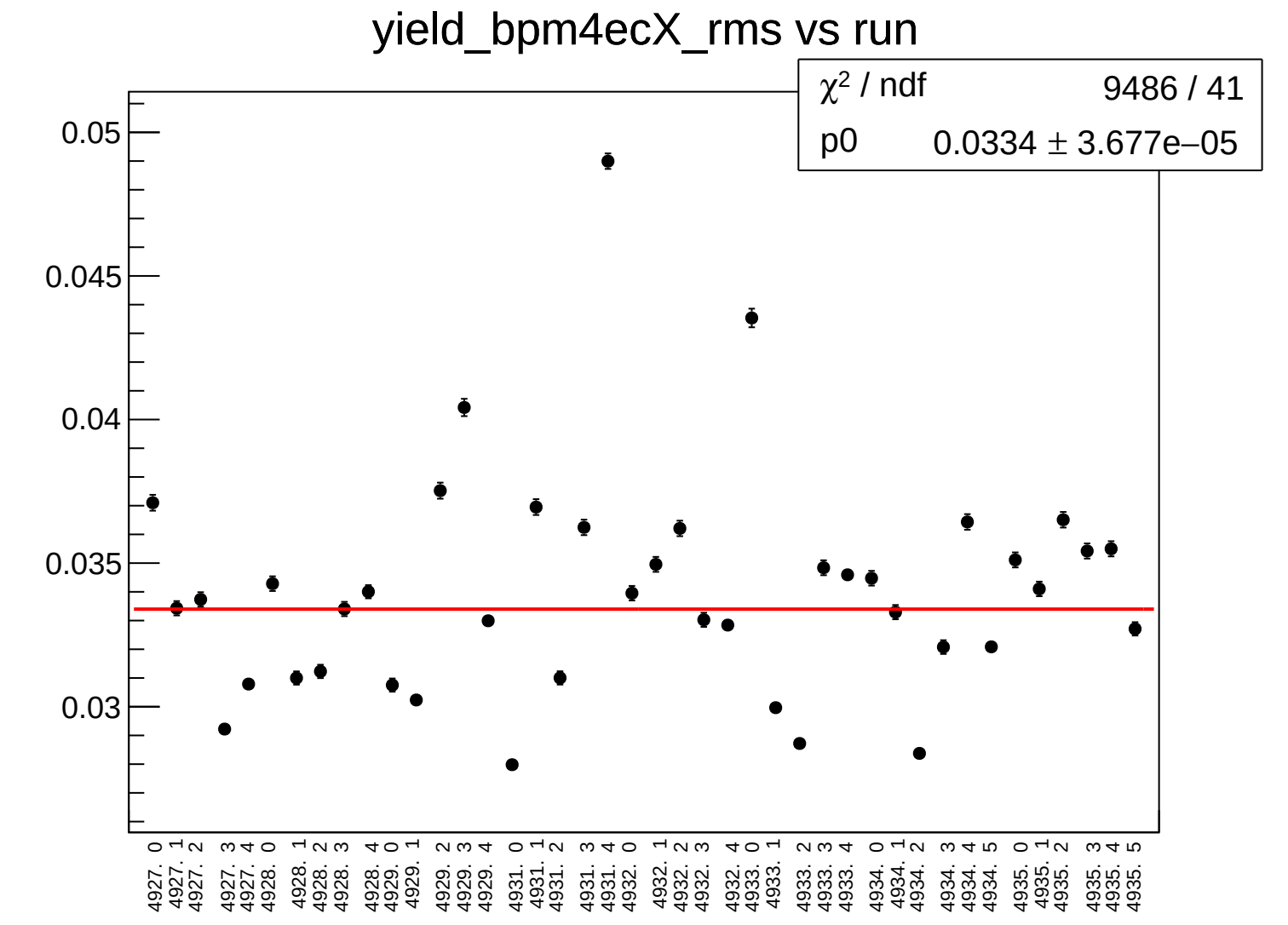

yield_bpm4acY_mean vs run
χ² / ndf 3790 / 41
p0 1.7 ± 3.754e−05
1.706
1.704
1.702
1.7
1.698
1.696
1.694
1.692
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 6.868
Std Dev 8.017
15
10
5
0
−5
−10
−15
−20
−25

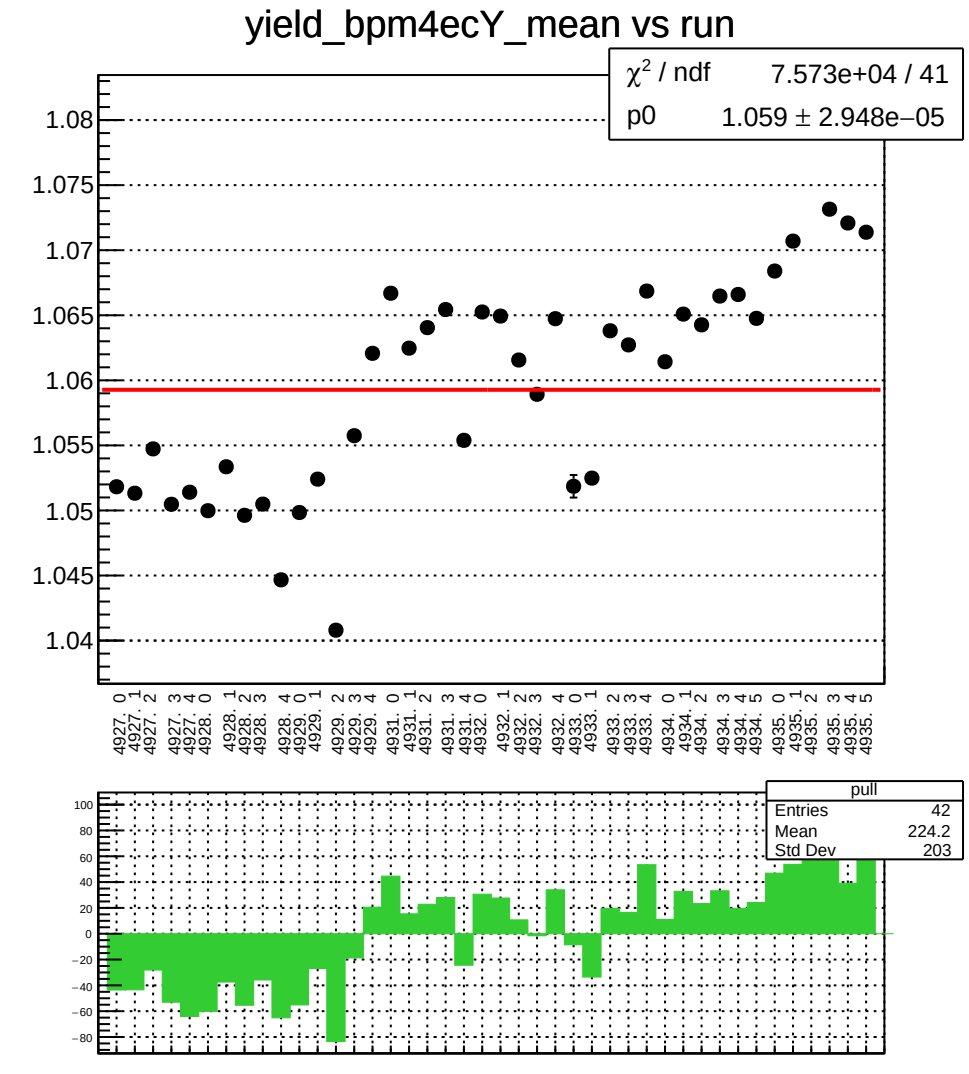

pull1D
Entries 42
Mean −1.565
Std Dev 4.118
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

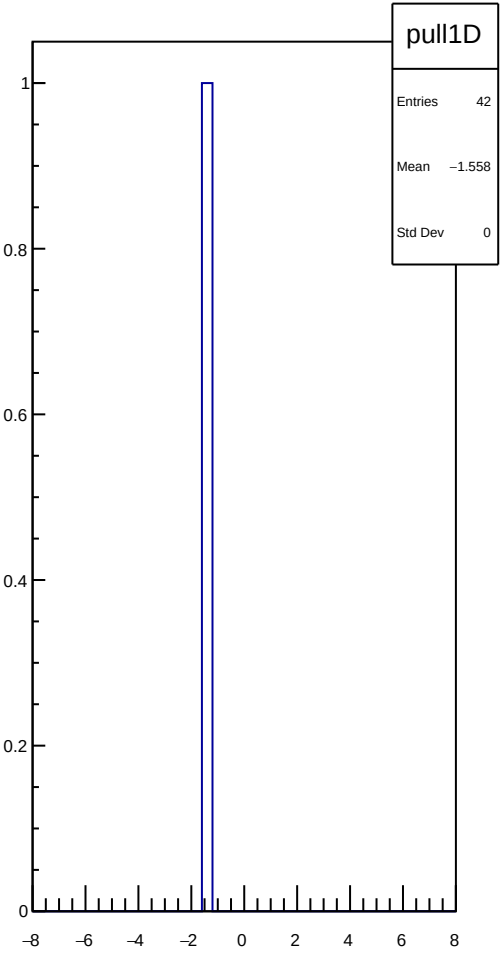

yield_bpm4acY_rms vs run
χ² / ndf 2.96e+04 / 41
p0 0.02381 ± 2.654e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

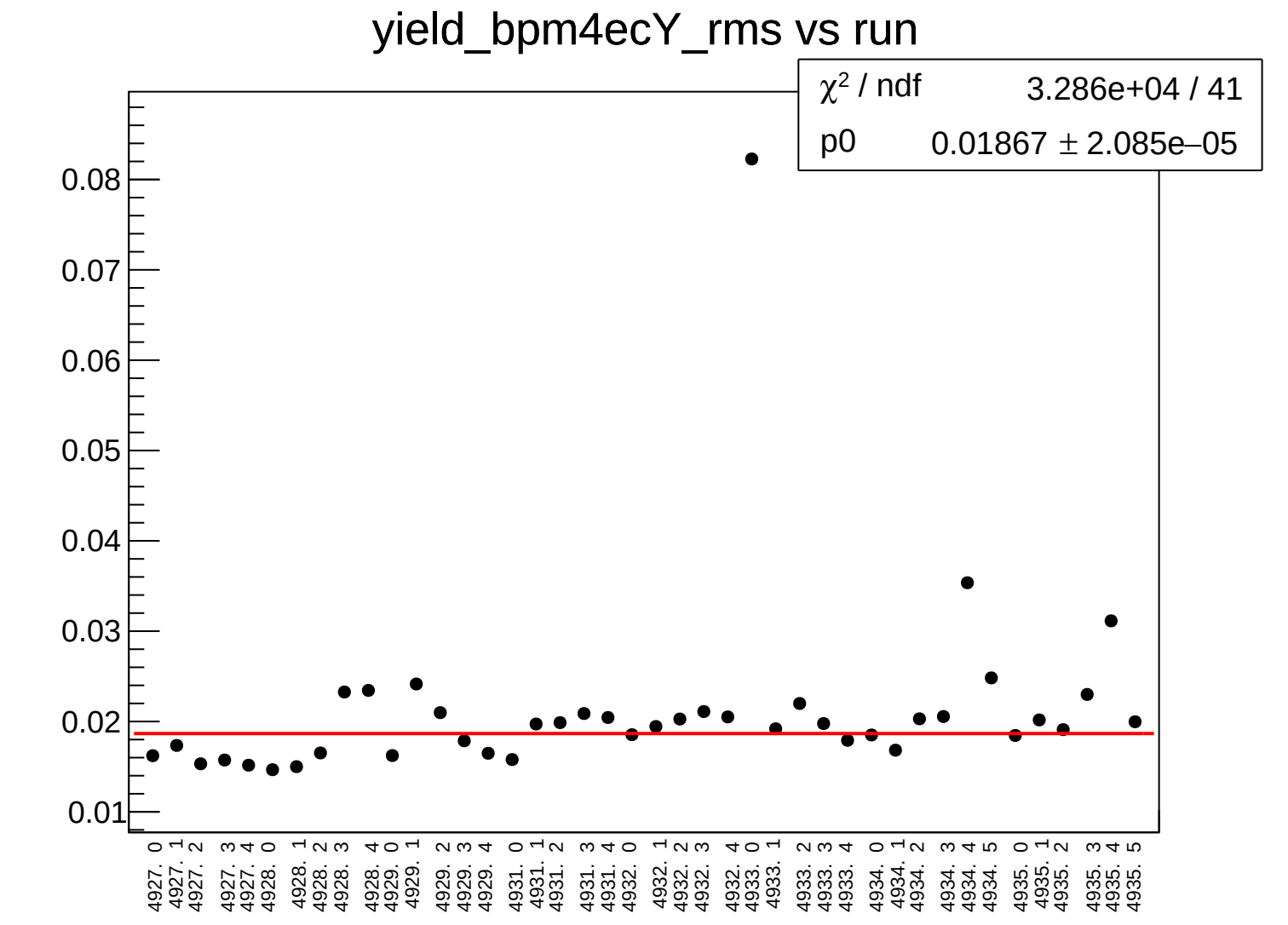

yield_bpm4ecX_mean vs run
χ² / ndf 1.451e+04 / 41
p0 0.2747 ± 5.2e−05
0.29
0.285
0.28
0.275
0.27
0.265
0.26
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −2933
Std Dev 2954
40
30
20
10
0
−10
−20
−30
−40

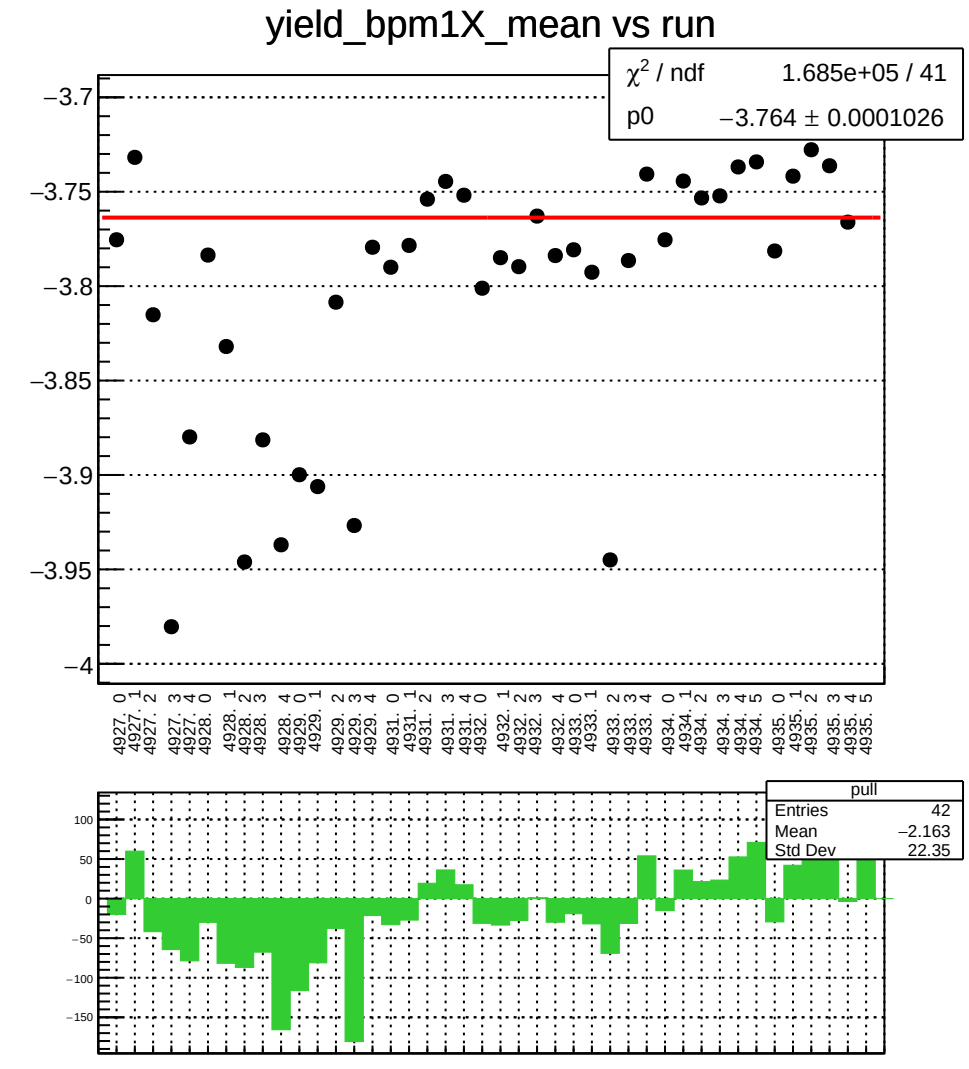

pull1D
Entries 42
Mean −0.203
Std Dev 5.106
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

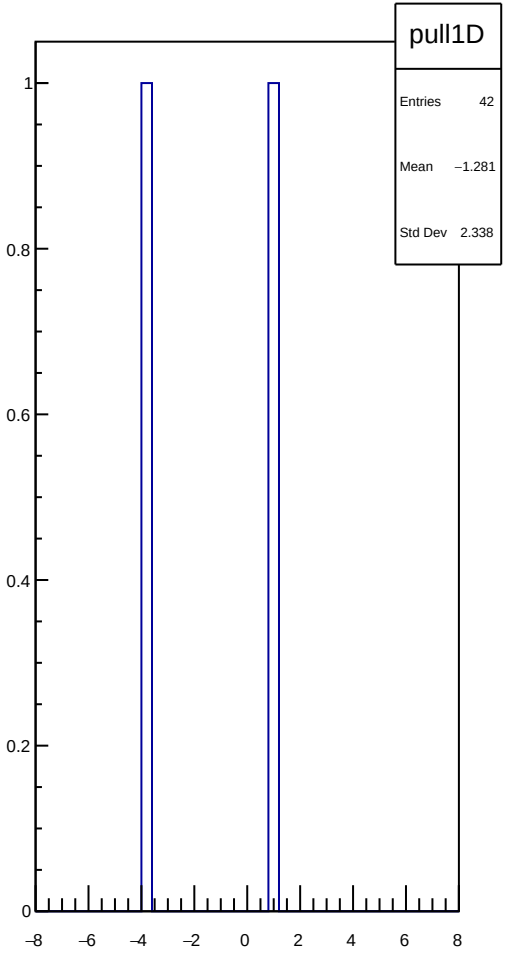

yield_bpm4ecX_rms vs run
χ² / ndf 9486 / 41
p0 0.0334 ± 3.677e−05
0.05
0.045
0.04
0.035
0.03
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

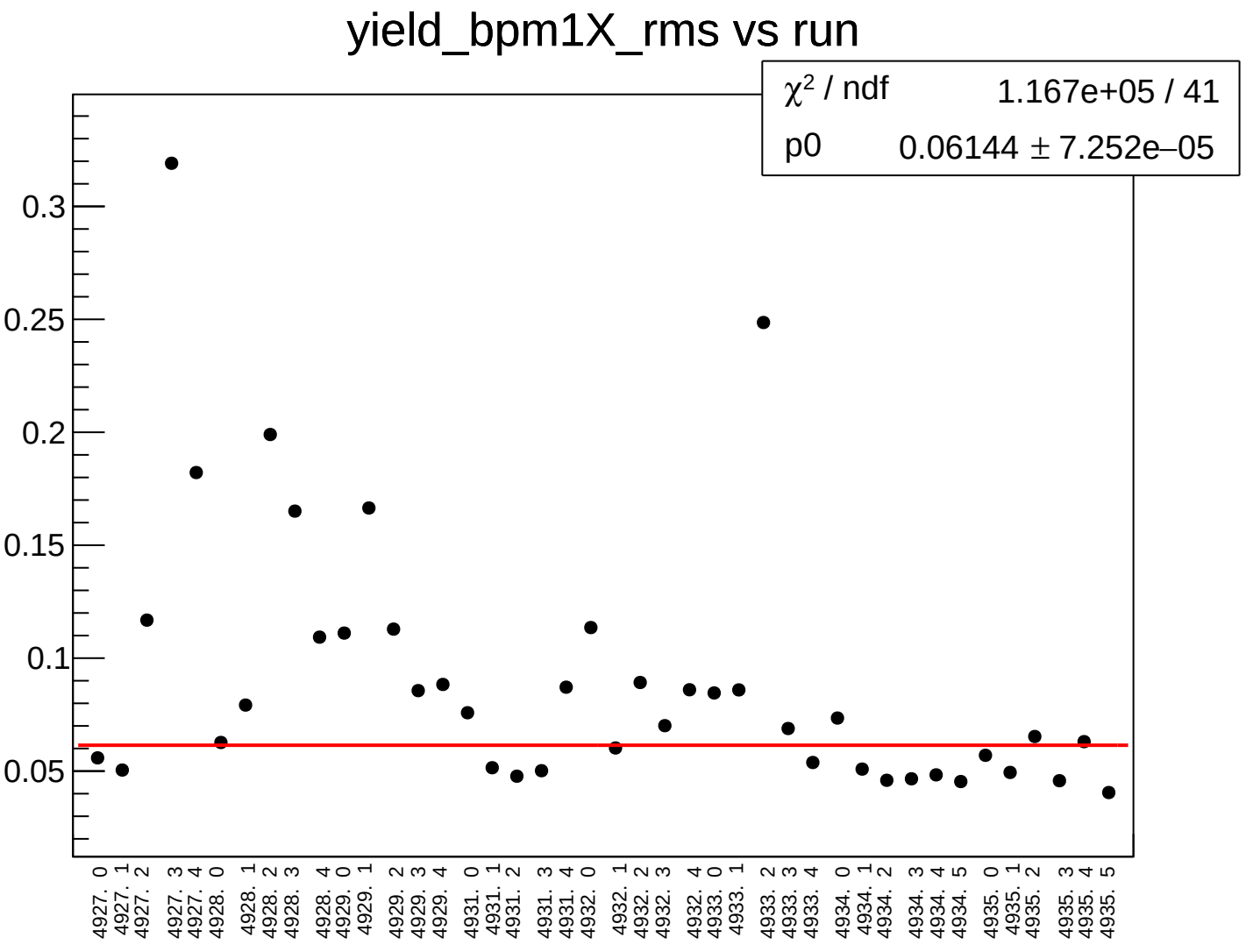

yield_bpm4ecY_mean vs run
χ² / ndf 7.573e+04 / 41
p0 1.059 ± 2.948e−05
1.08
1.075
1.07
1.065
1.06
1.055
1.05
1.045
1.04
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 224.2
Std Dev 203
100
80
60
40
20
0
−20
−40
−60
−80

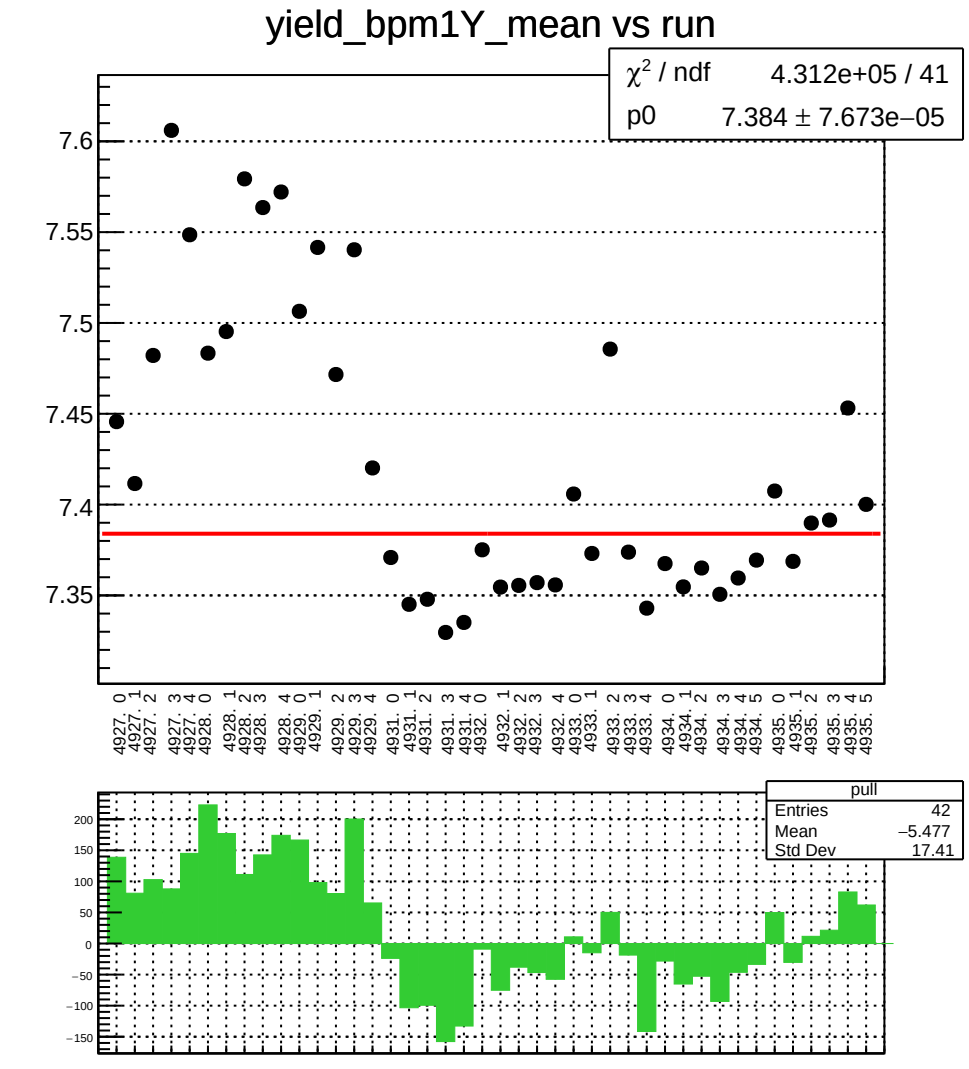

pull1D
Entries 42
Mean −1.558
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

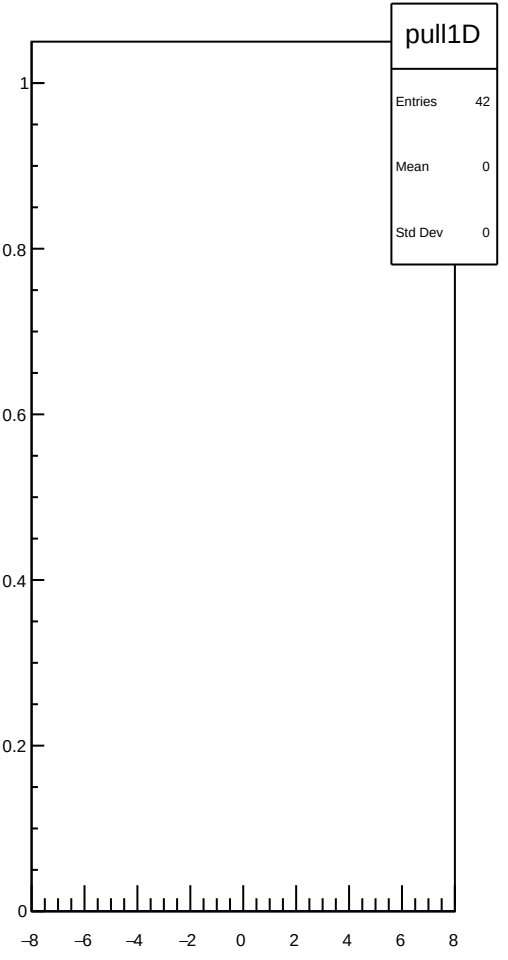

yield_bpm4ecY_rms vs run
χ² / ndf 3.286e+04 / 41
p0 0.01867 ± 2.085e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

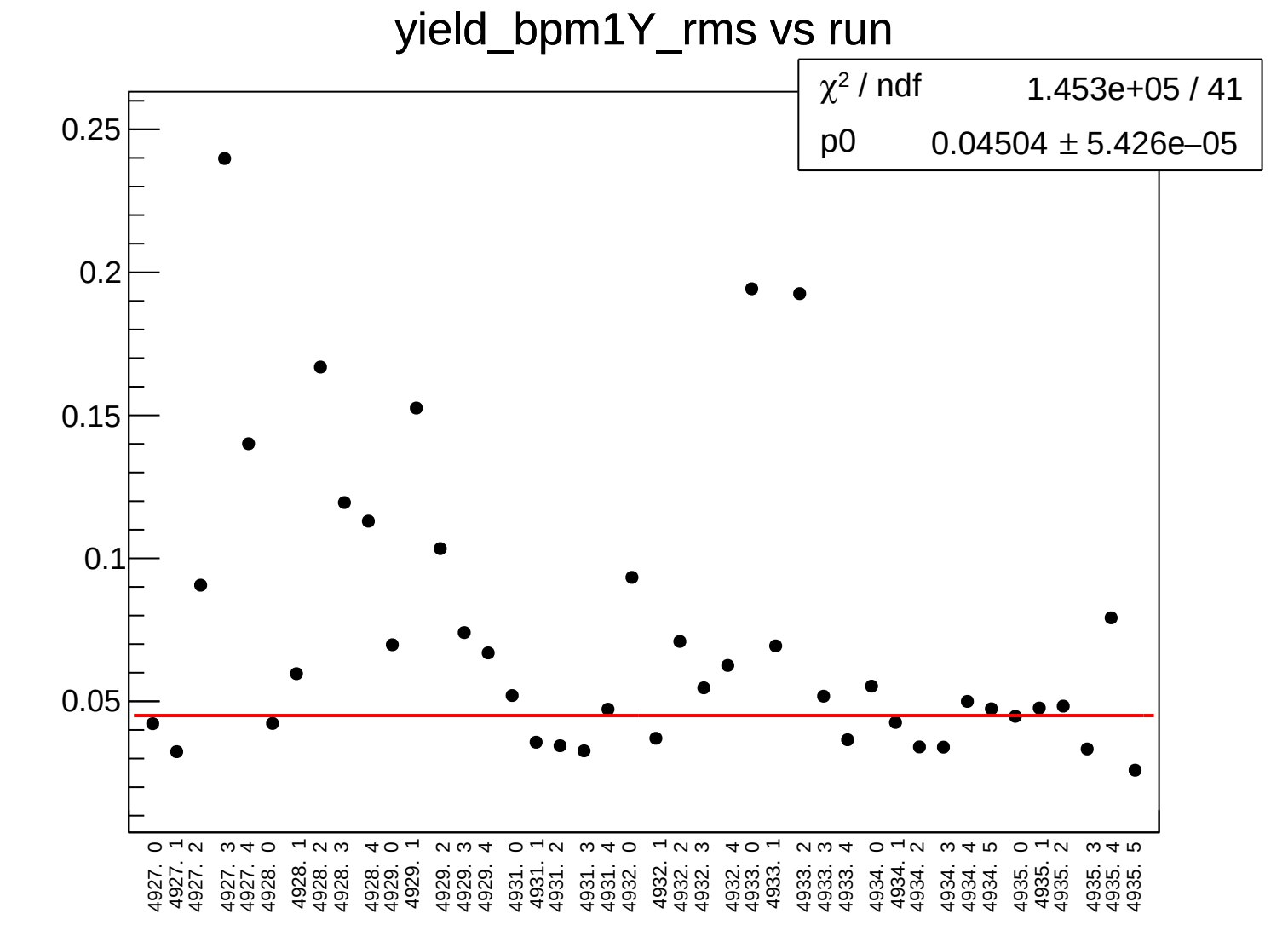

yield_bpm1X_mean vs run
χ² / ndf 1.685e+05 / 41
p0 −3.764 ± 0.0001026
−3.7
−3.75
−3.8
−3.85
−3.9
−3.95
−4
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −2.163
Std Dev 22.35
100
50
0
−50
−100
−150

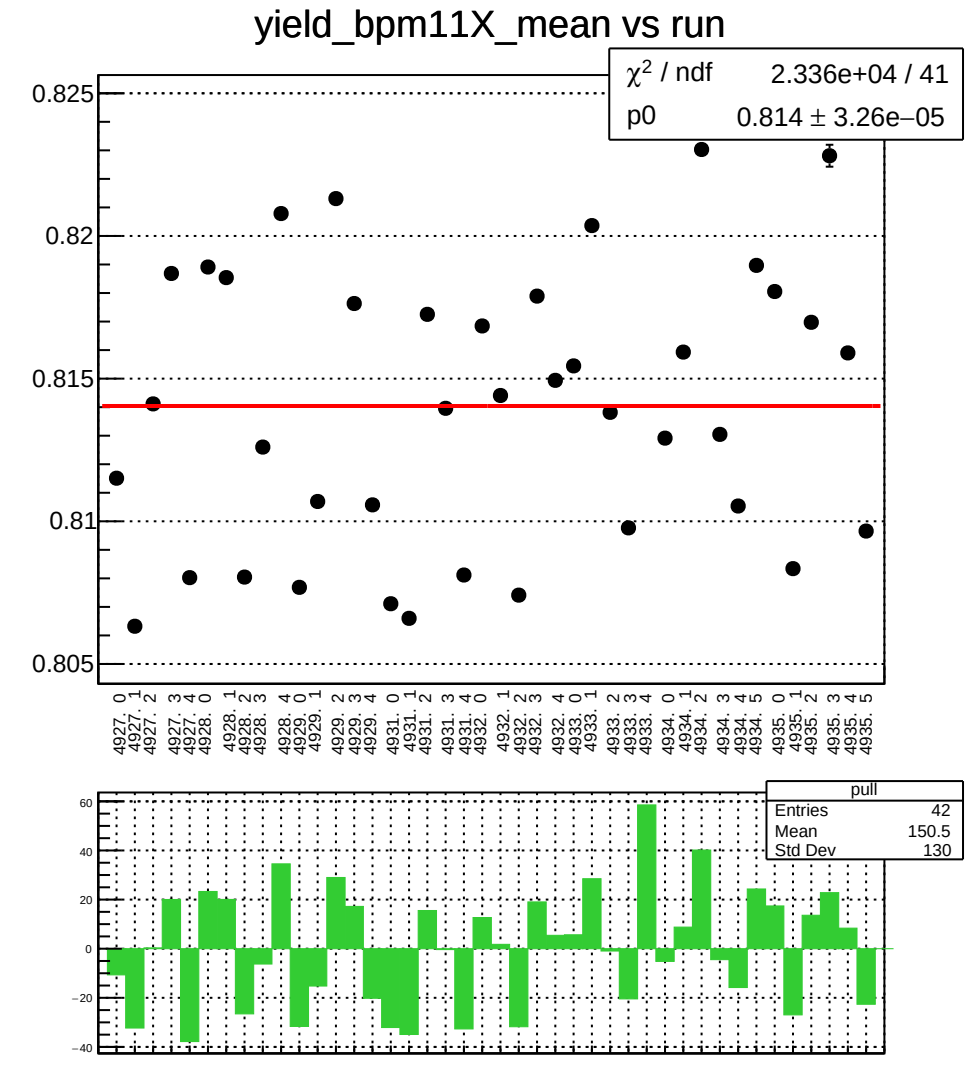

pull1D
Entries 42
Mean −1.281
Std Dev 2.338
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

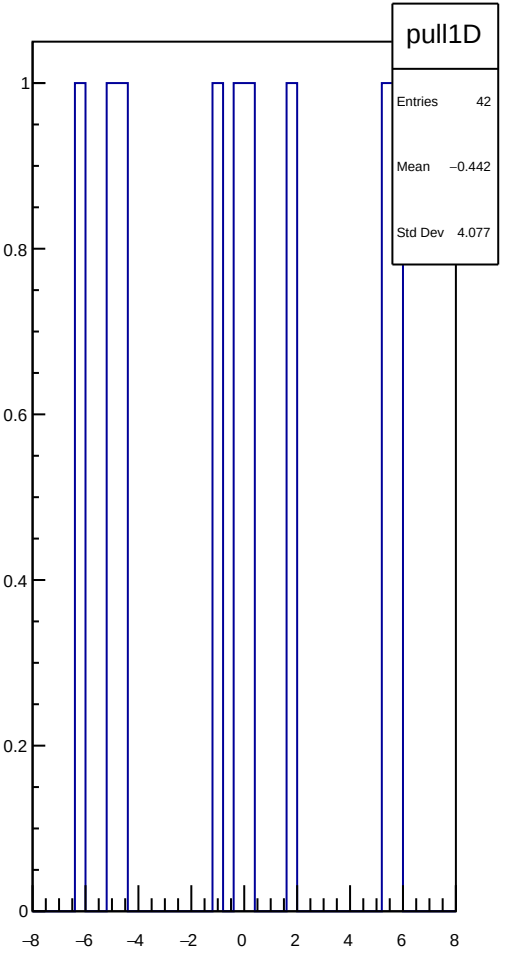

yield_bpm1X_rms vs run
χ² / ndf 1.167e+05 / 41
p0 0.06144 ± 7.252e–05
0.3
0.25
0.2
0.15
0.1
0.05
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

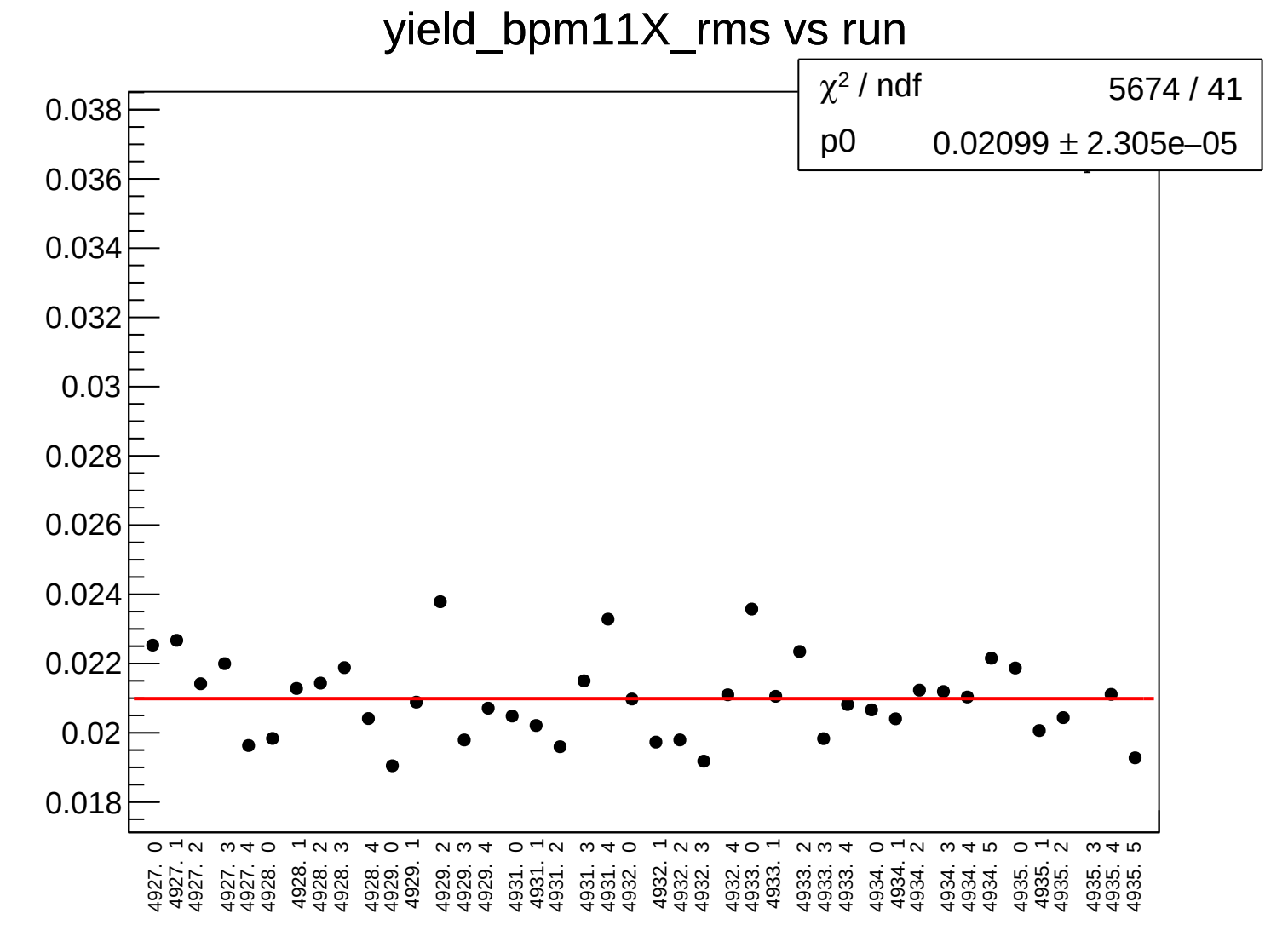

yield_bpm1Y_mean vs run
χ² / ndf 4.312e+05 / 41
p0 7.384 ± 7.673e−05
7.6
7.55
7.5
7.45
7.4
7.35
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −5.477
Std Dev 17.41
200
150
100
50
0
−50
−100
−150

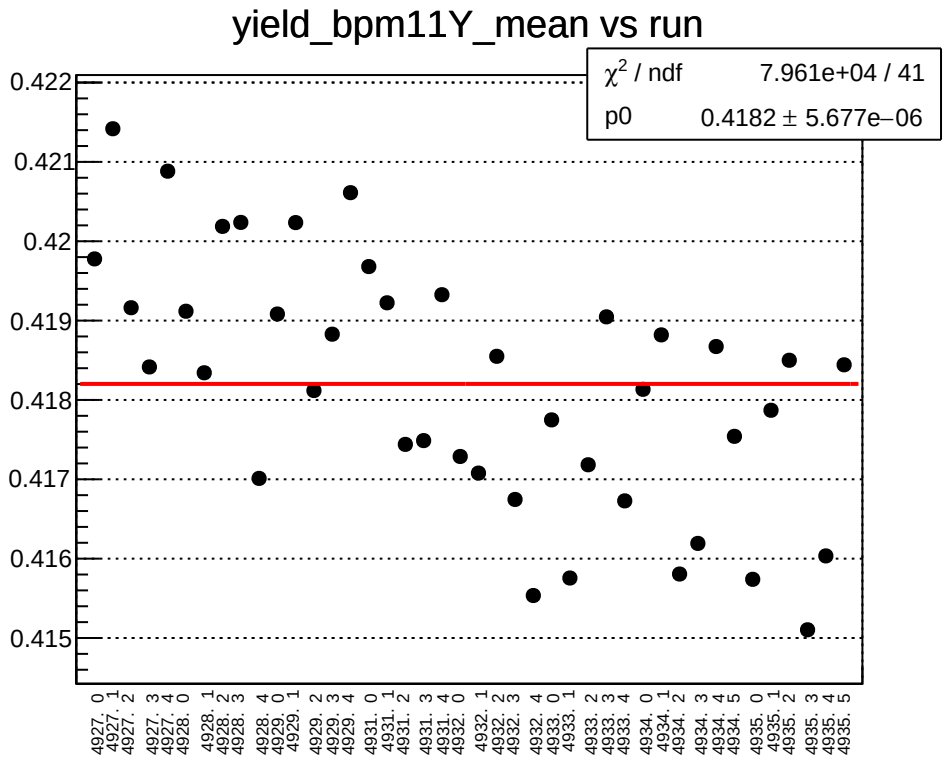

pull1D
Entries 42
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

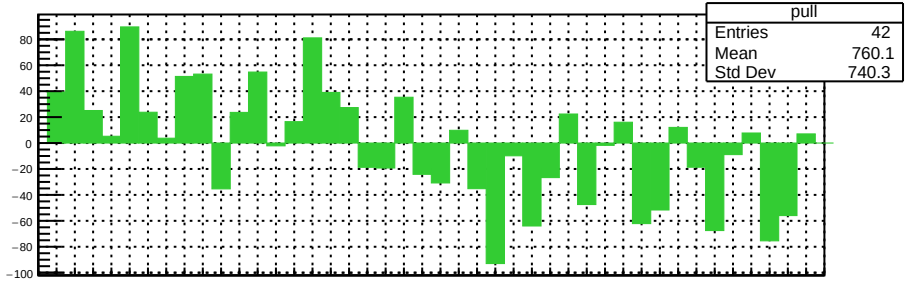

yield_bpm1Y_rms vs run
χ² / ndf 1.453e+05 / 41
p0 0.04504 ± 5.426e−05
0.25
0.2
0.15
0.1
0.05
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

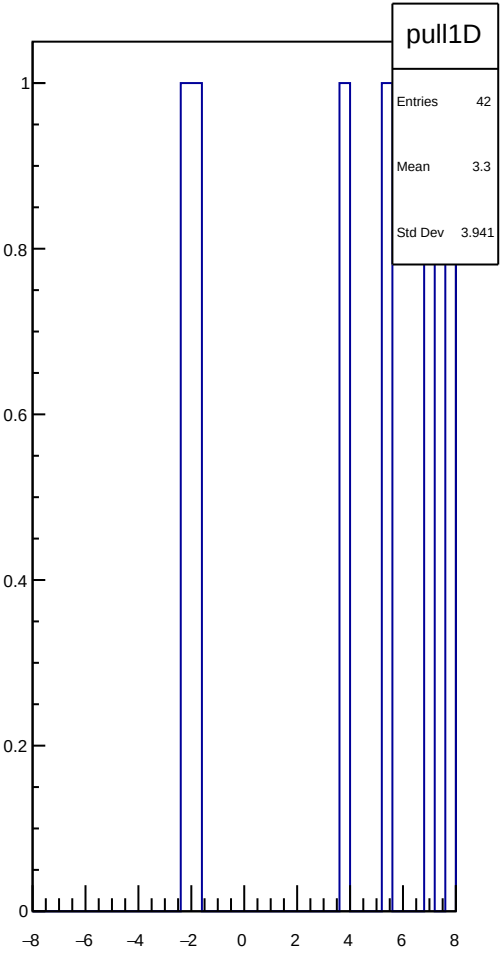

yield_bpm11X_mean vs run
χ² / ndf 2.336e+04 / 41
p0 0.814 ± 3.26e−05
0.825
0.82
0.815
0.81
0.805
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 150.5
Std Dev 130
60
40
20
0
−20
−40

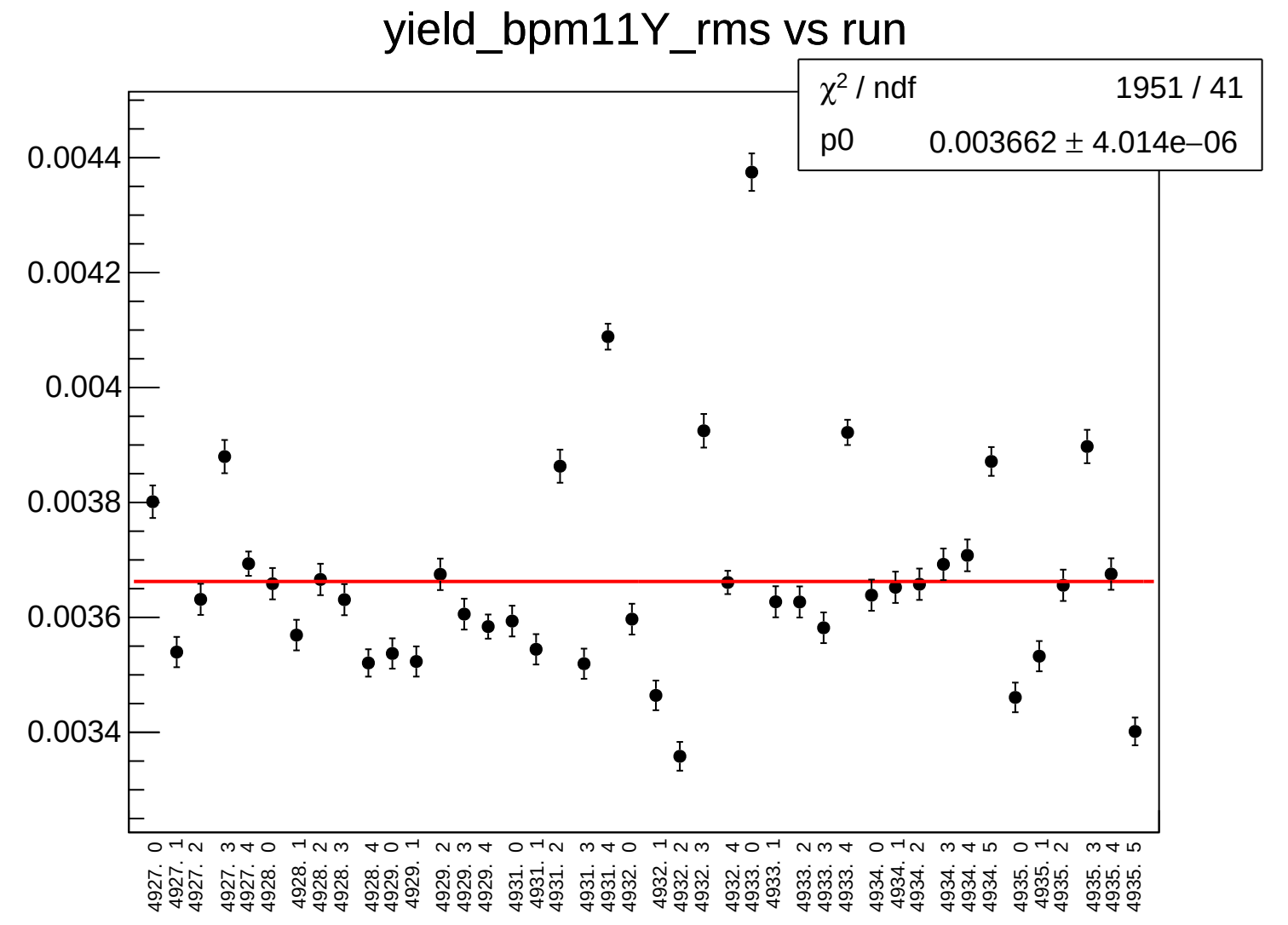

pull1D
Entries 42
Mean −0.442
Std Dev 4.077
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

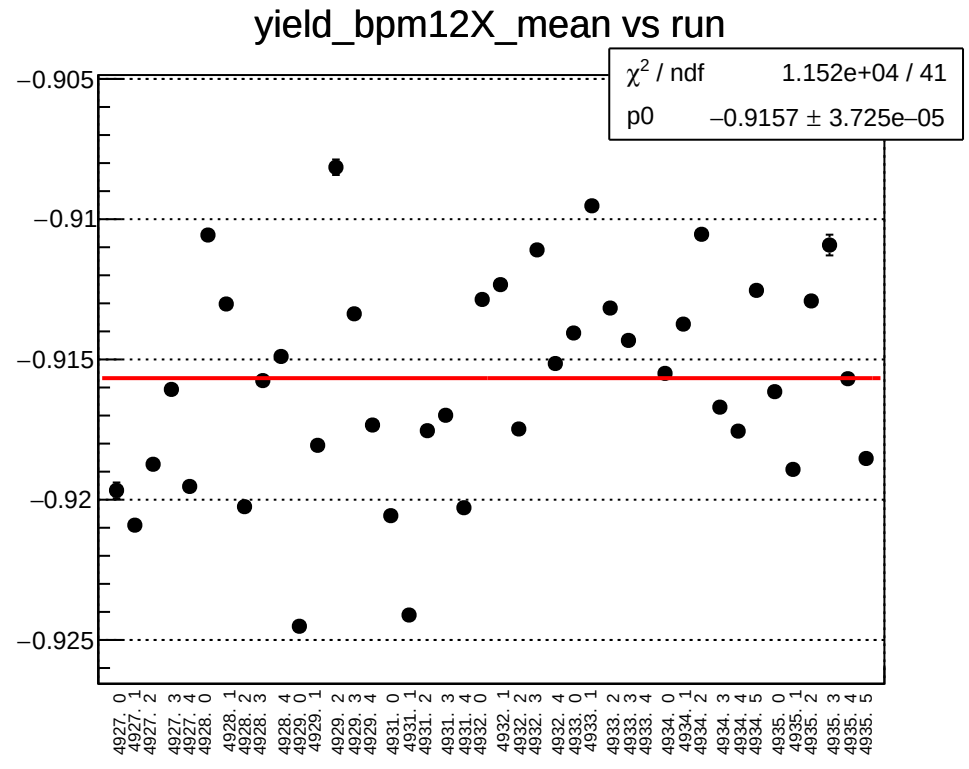

yield_bpm11X_rms vs run
χ² / ndf 5674 / 41
p0 0.02099 ± 2.305e−05
0.038
0.036
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

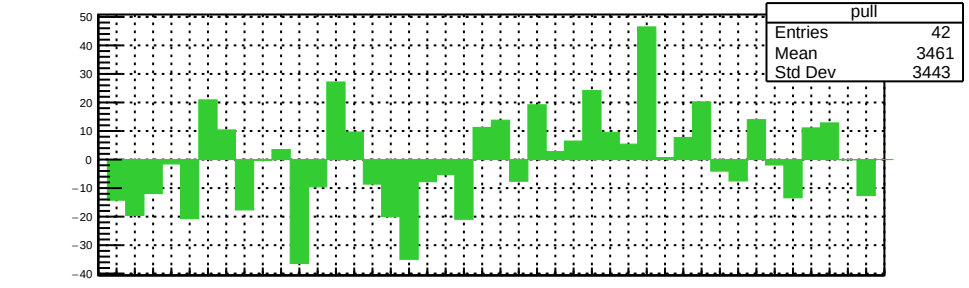

yield_bpm11Y_mean vs run
χ² / ndf 7.961e+04 / 41
p0 0.4182 ± 5.677e−06
0.422
0.421
0.42
0.419
0.418
0.417
0.416
0.415
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935.

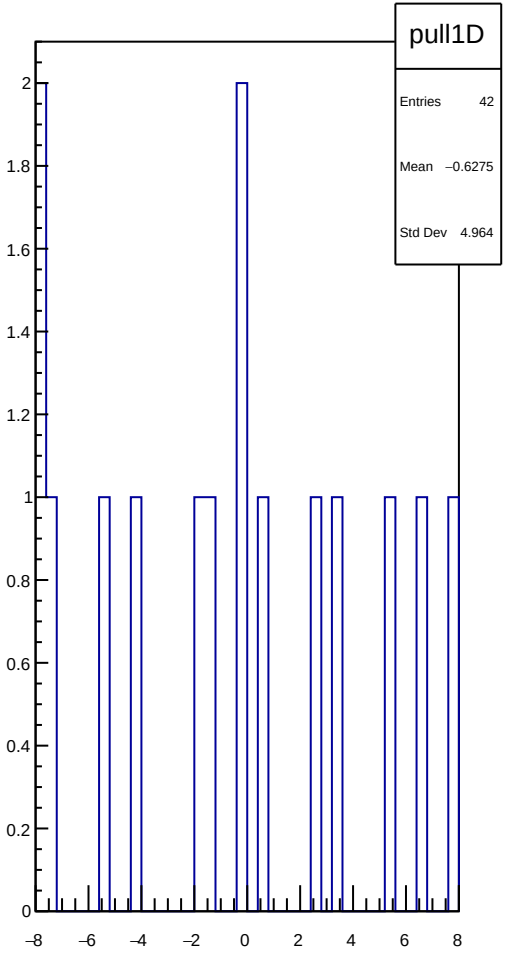

pull
Entries 42
Mean 760.1
Std Dev 740.3
80
60
40
20
0
−20
−40
−60
−80
−100

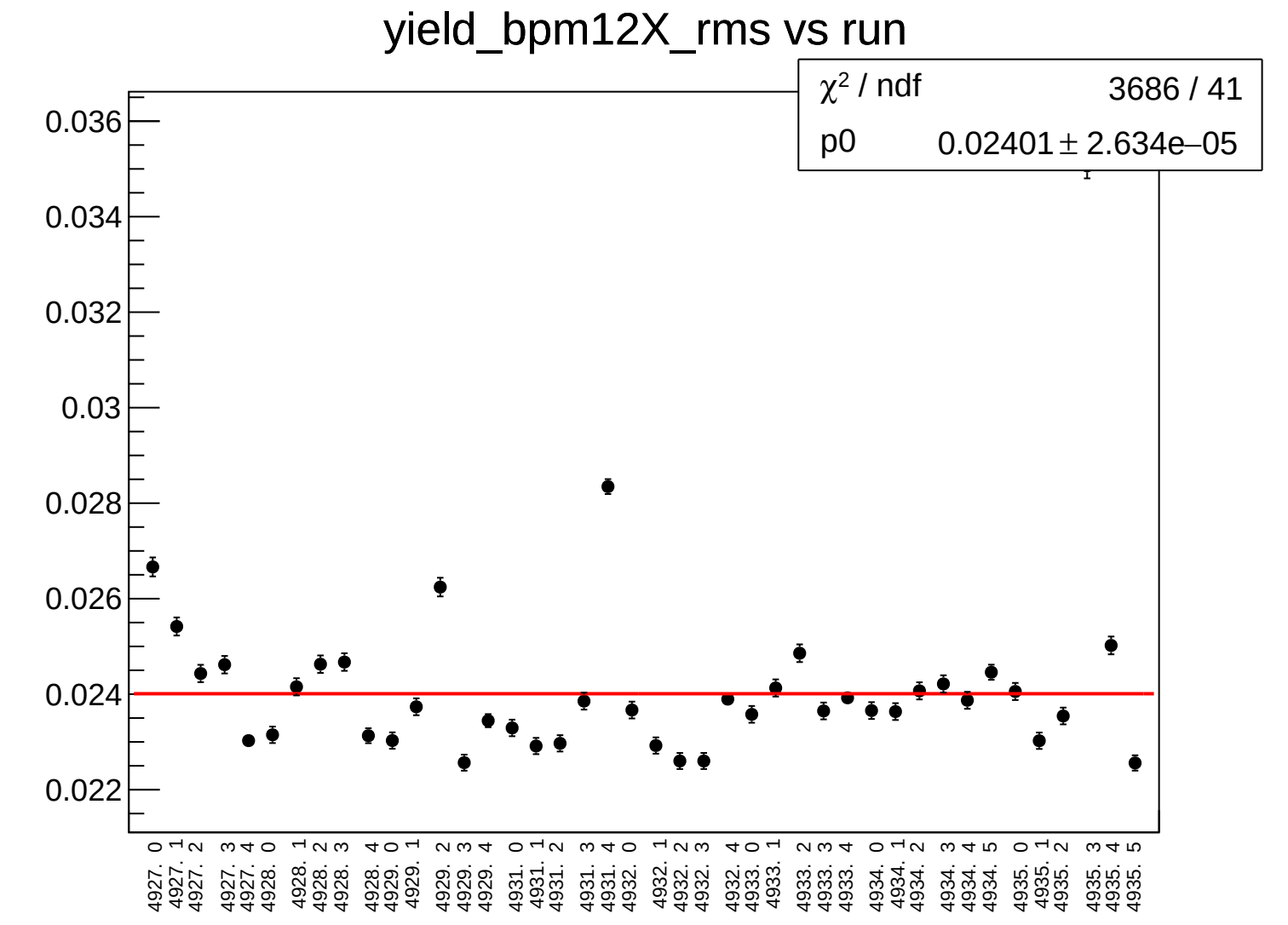

pull1D
Entries 42
Mean 3.3
Std Dev 3.941
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

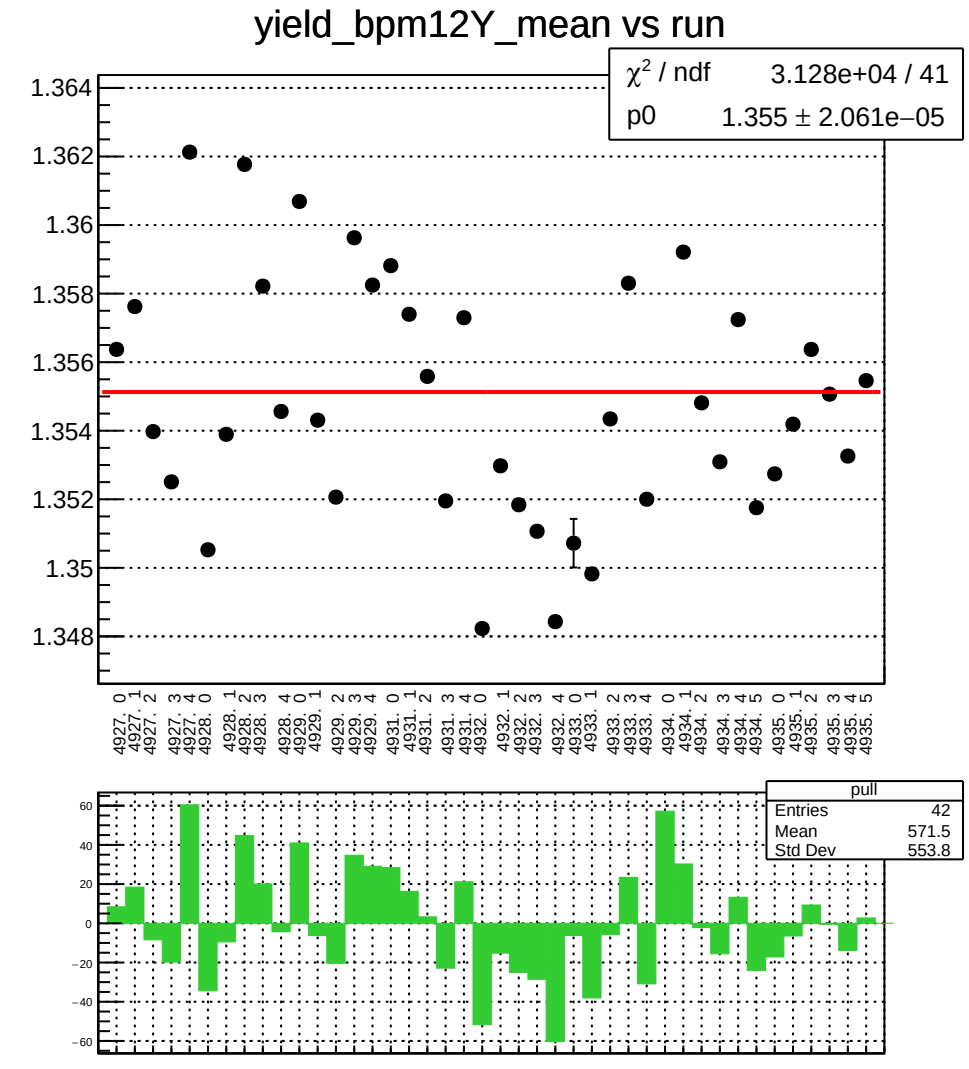

yield_bpm11Y_rms vs run
χ² / ndf 1951 / 41
p0 0.003662 ± 4.014e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

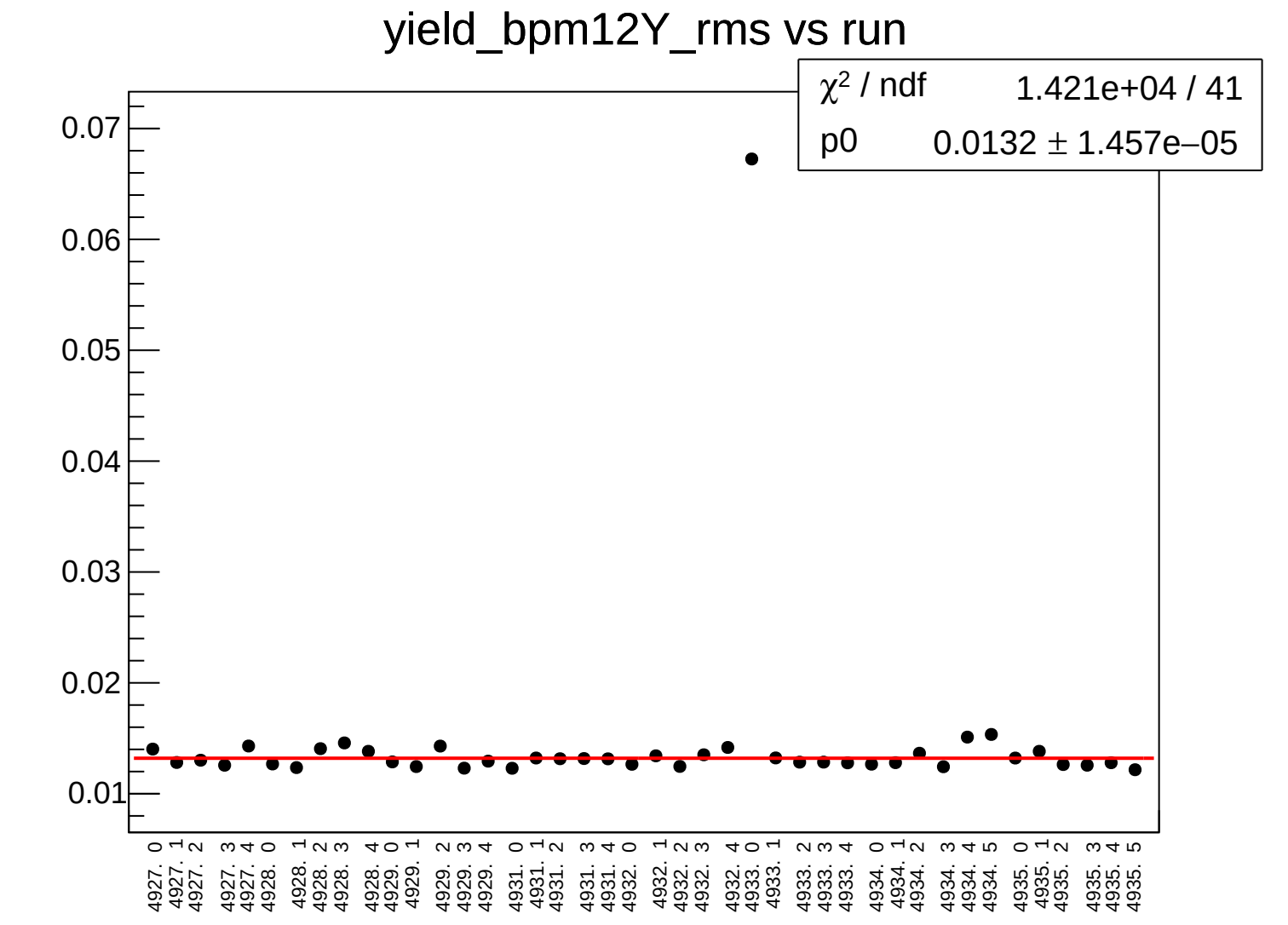

yield_bpm12X_mean vs run
χ² / ndf 1.152e+04 / 41
p0 −0.9157 ± 3.725e−05
−0.905
−0.91
−0.915
−0.92
−0.925
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

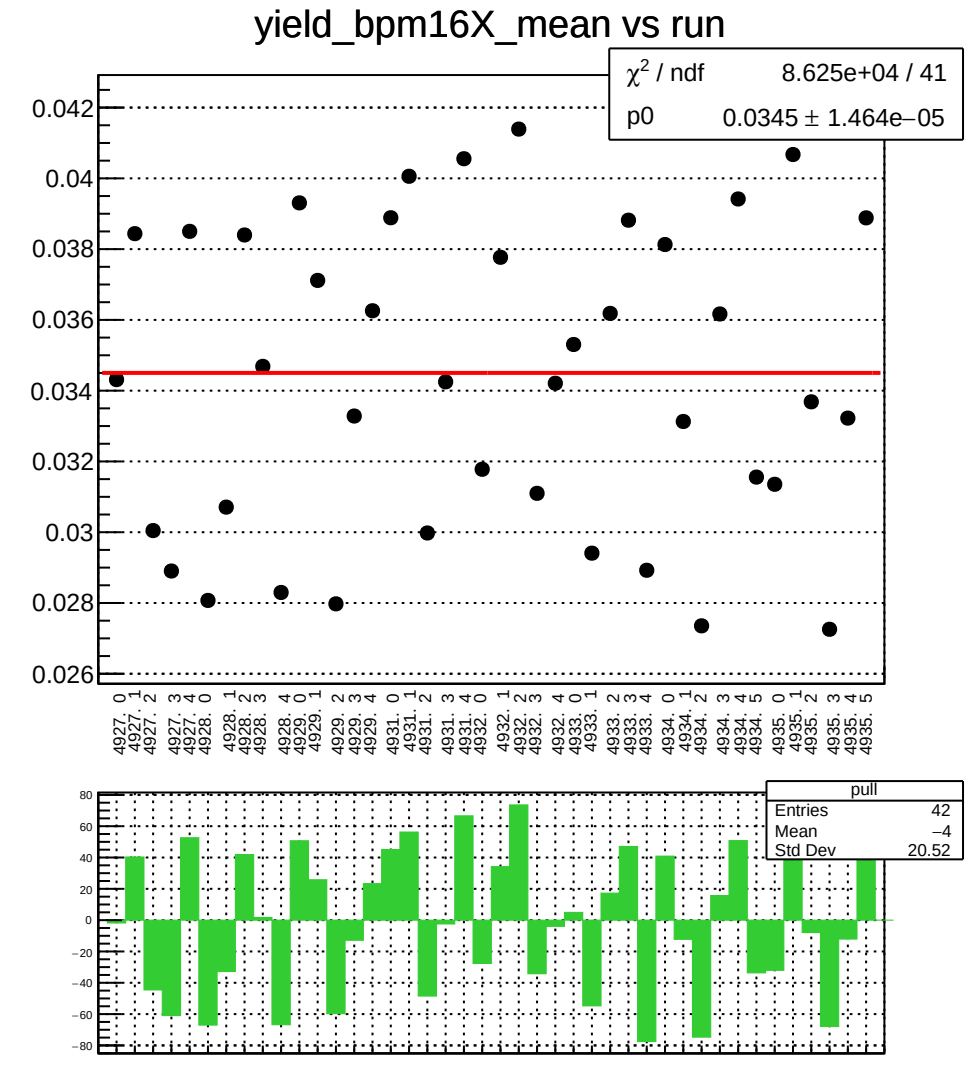

pull
Entries 42
Mean 3461
Std Dev 3443
50
40
30
20
10
0
−10
−20
−30
−40

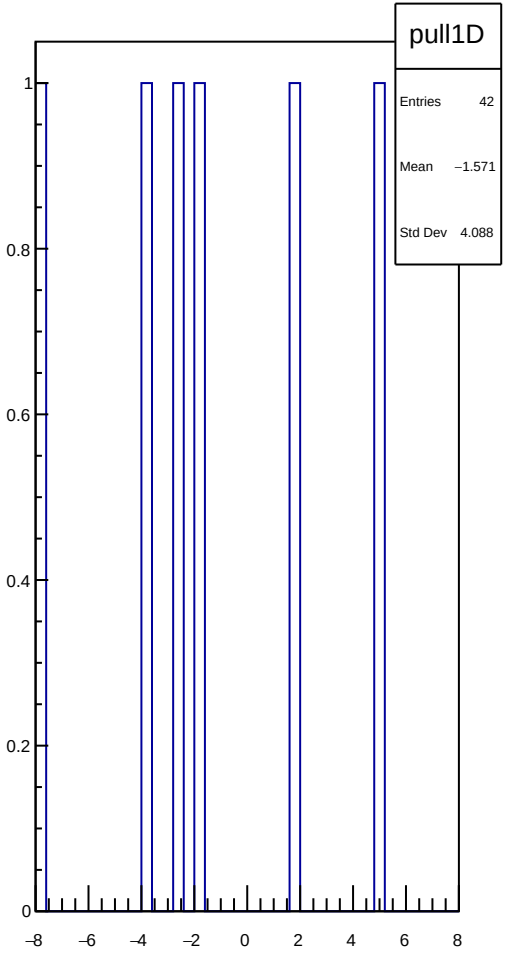

pull1D
Entries 42
Mean −0.6275
Std Dev 4.964
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

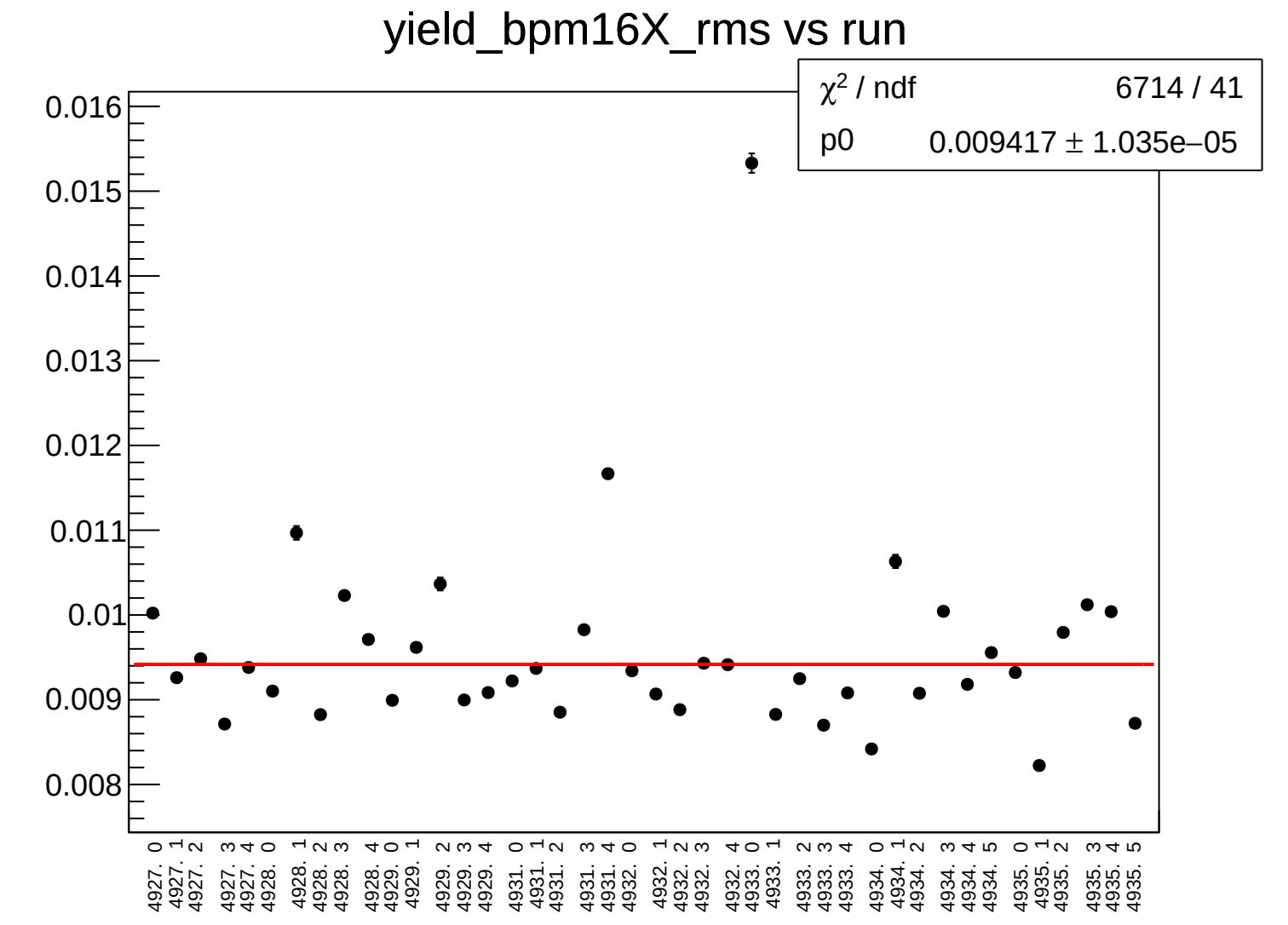

yield_bpm12X_rms vs run
χ² / ndf 3686 / 41
p0 0.02401 ± 2.634e−05
0.036
0.034
0.032
0.03
0.028
0.026
0.024
0.022
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

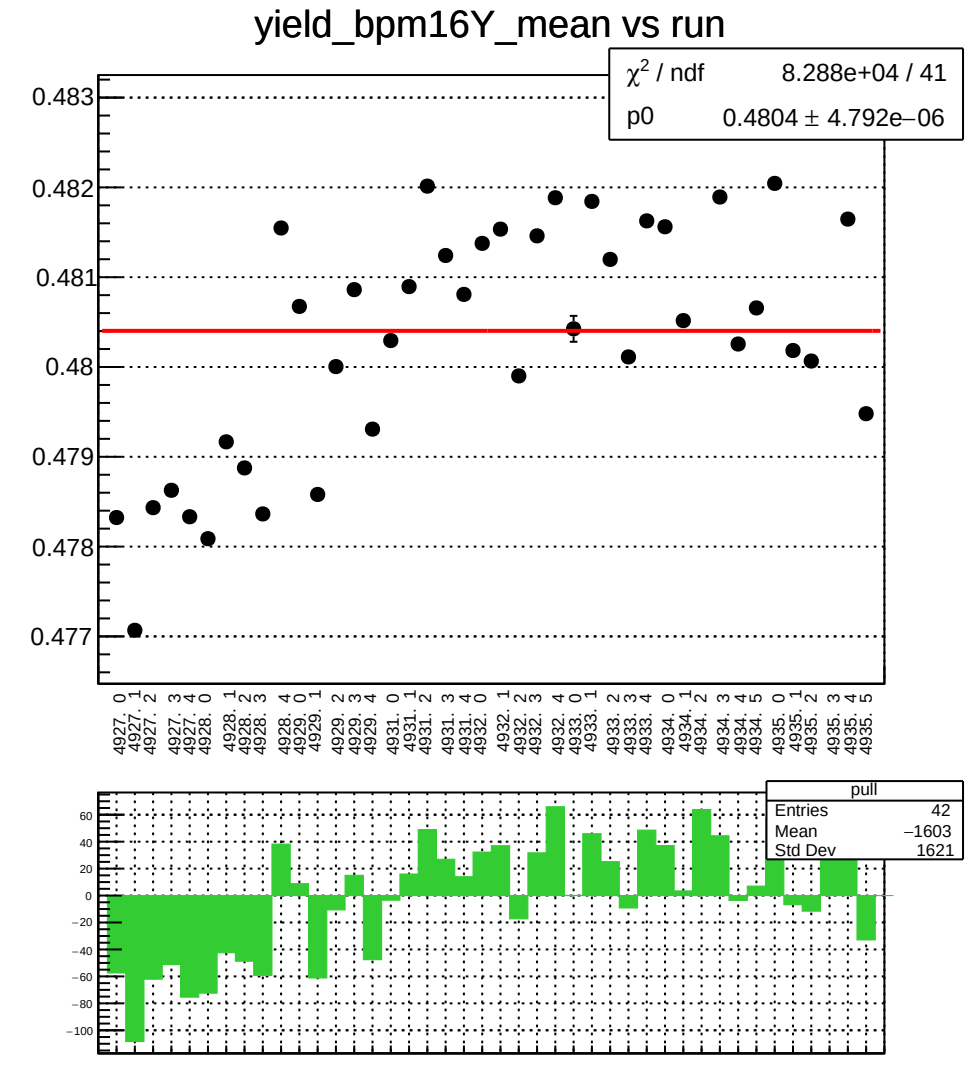

yield_bpm12Y_mean vs run
χ² / ndf 3.128e+04 / 41
p0 1.355 ± 2.061e−05
1.364
1.362
1.36
1.358
1.356
1.354
1.352
1.35
1.348
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 571.5
Std Dev 553.8
60
40
20
0
−20
−40
−60
pull1D
Entries 42
Mean −2.847
Std Dev 3.673
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

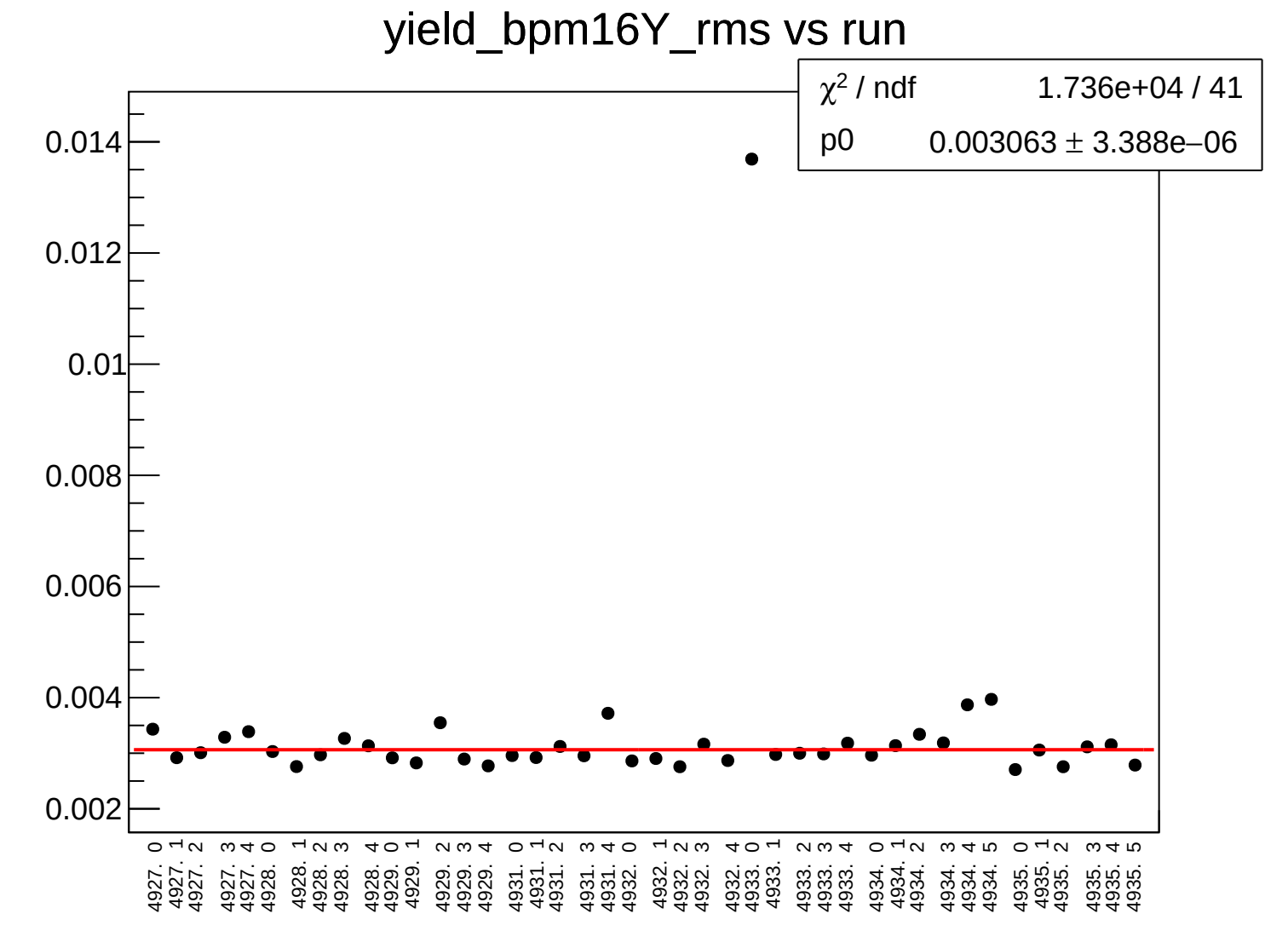

yield_bpm12Y_rms vs run
χ² / ndf 1.421e+04 / 41
p0 0.0132 ± 1.457e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

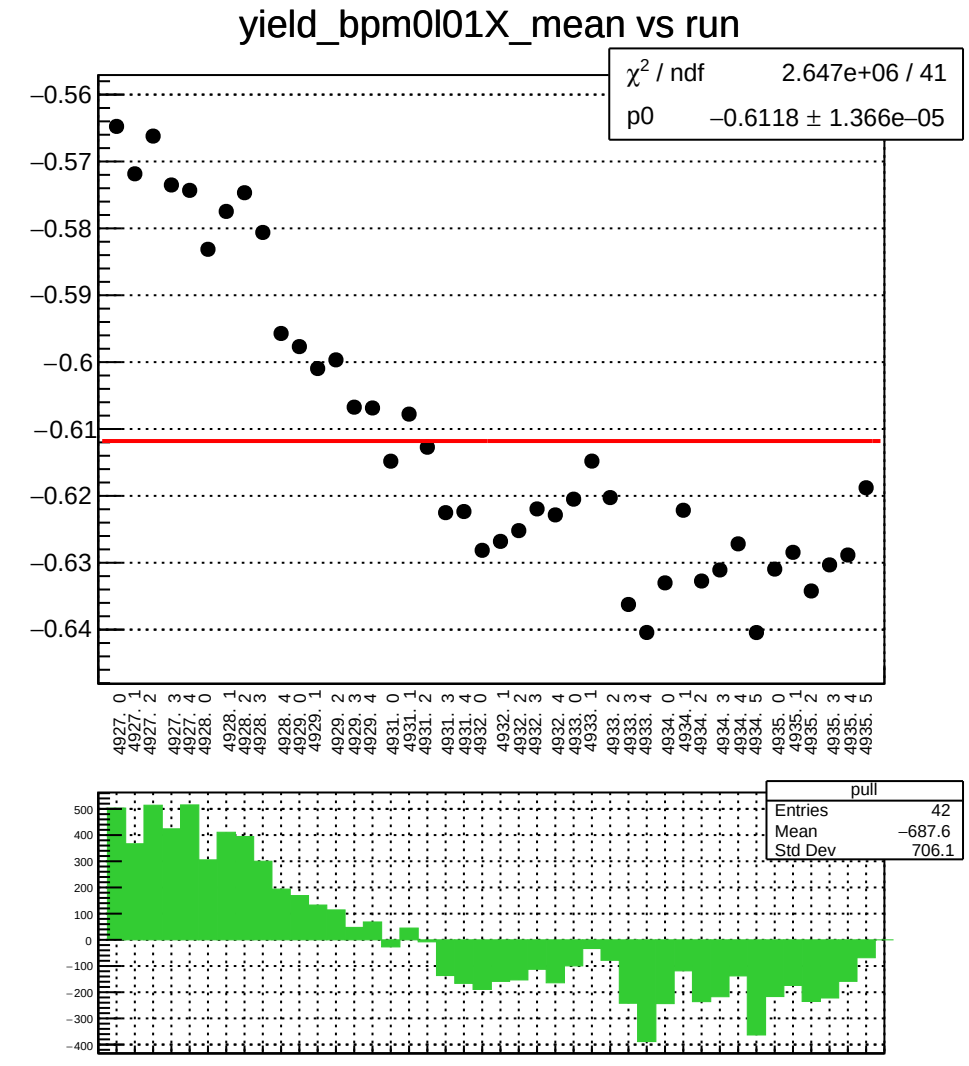

yield_bpm16X_mean vs run
χ² / ndf 8.625e+04 / 41
p0 0.0345 ± 1.464e−05
0.042
0.04
0.038
0.036
0.034
0.032
0.03
0.028
0.026
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −4
Std Dev 20.52
80
60
40
20
0
−20
−40
−60
−80

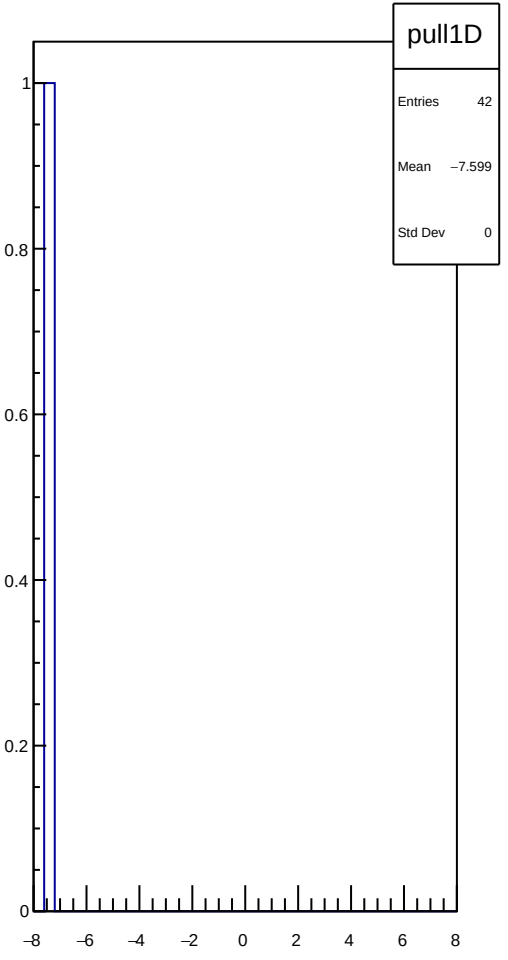

pull1D
Entries 42
Mean −1.571
Std Dev 4.088
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

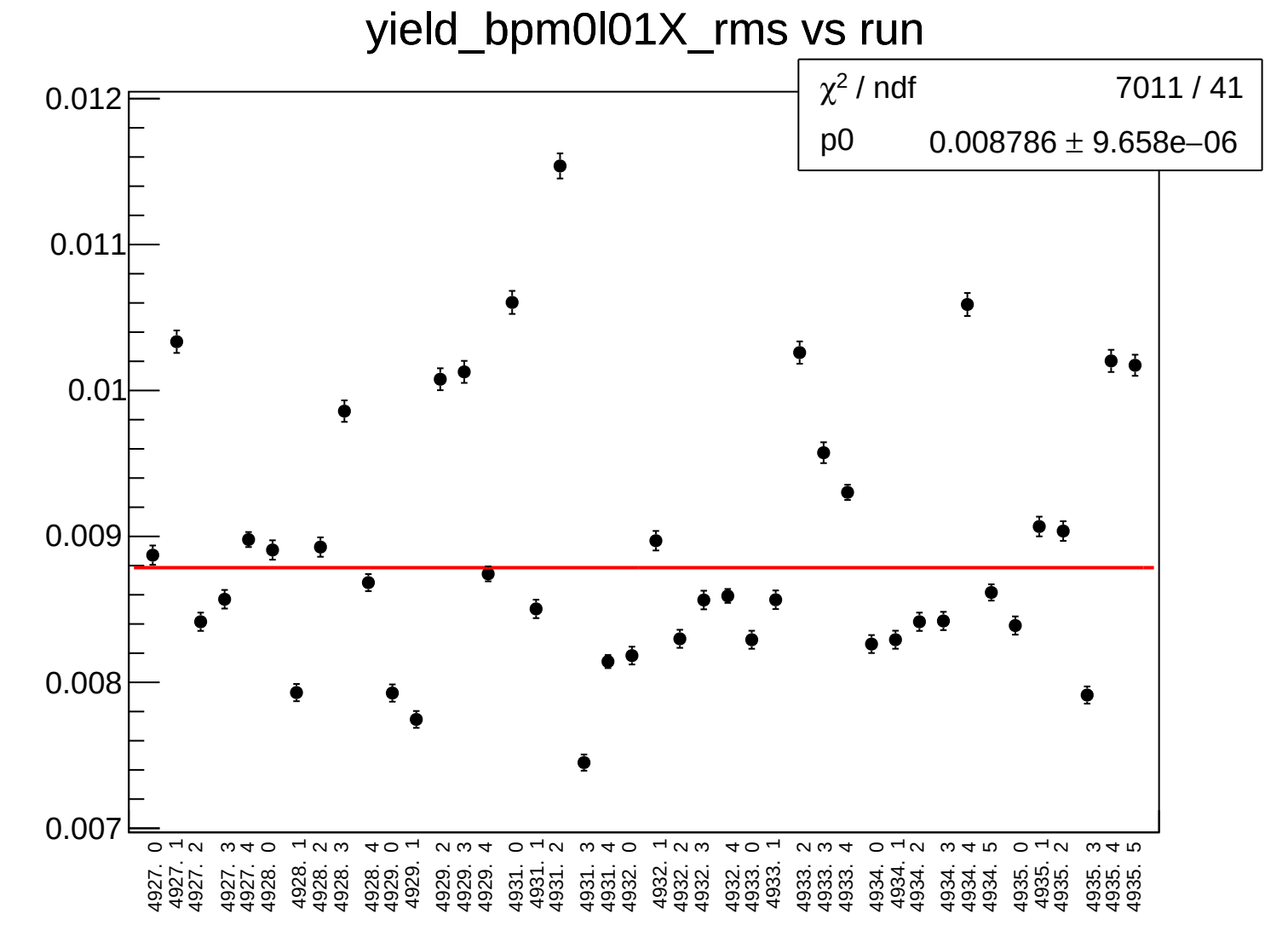

yield_bpm16X_rms vs run
χ² / ndf 6714 / 41
p0 0.009417 ± 1.035e−05
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

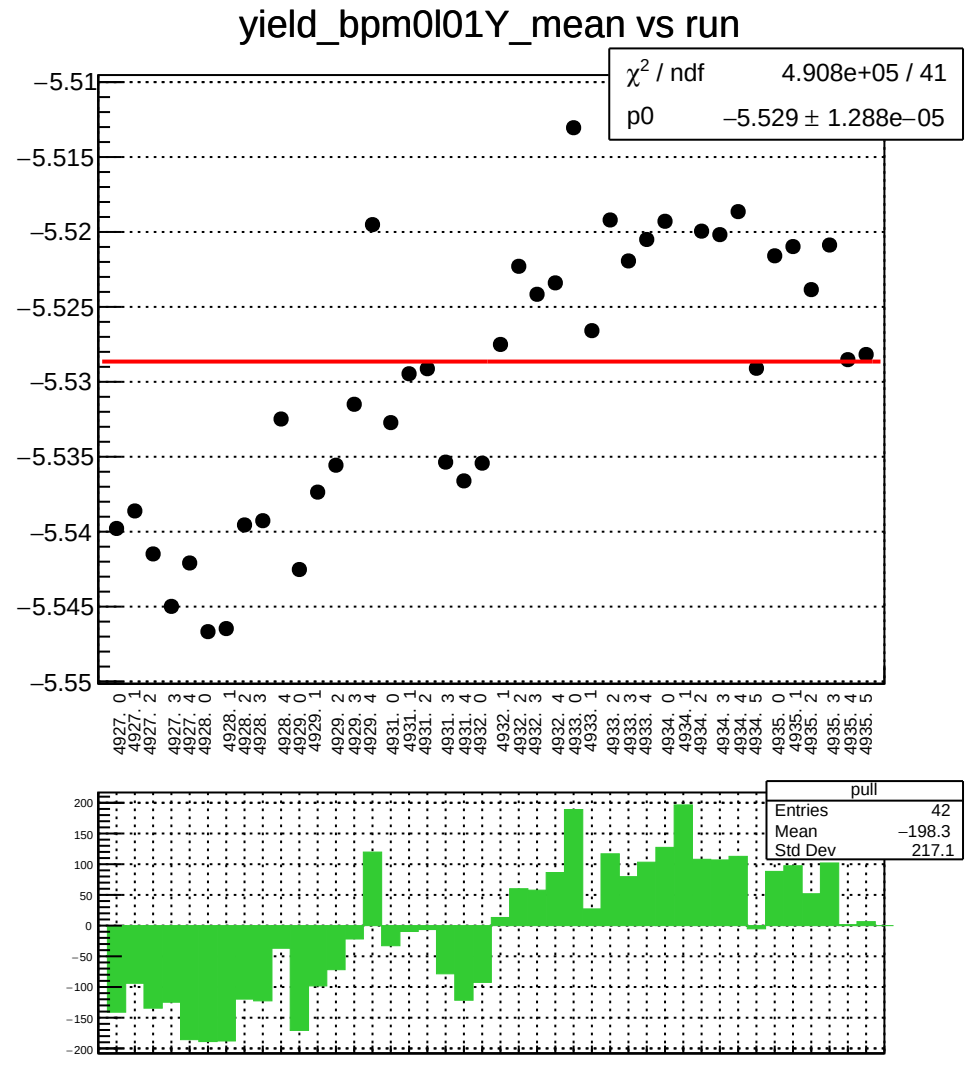

yield_bpm16Y_mean vs run
χ² / ndf 8.288e+04 / 41
p0 0.4804 ± 4.792e−06
0.483
0.482
0.481
0.48
0.479
0.478
0.477
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −1603
Std Dev 1621
60
40
20
0
−20
−40
−60
−80
−100
pull1D
Entries 42
Mean −0.539
Std Dev 4.668
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

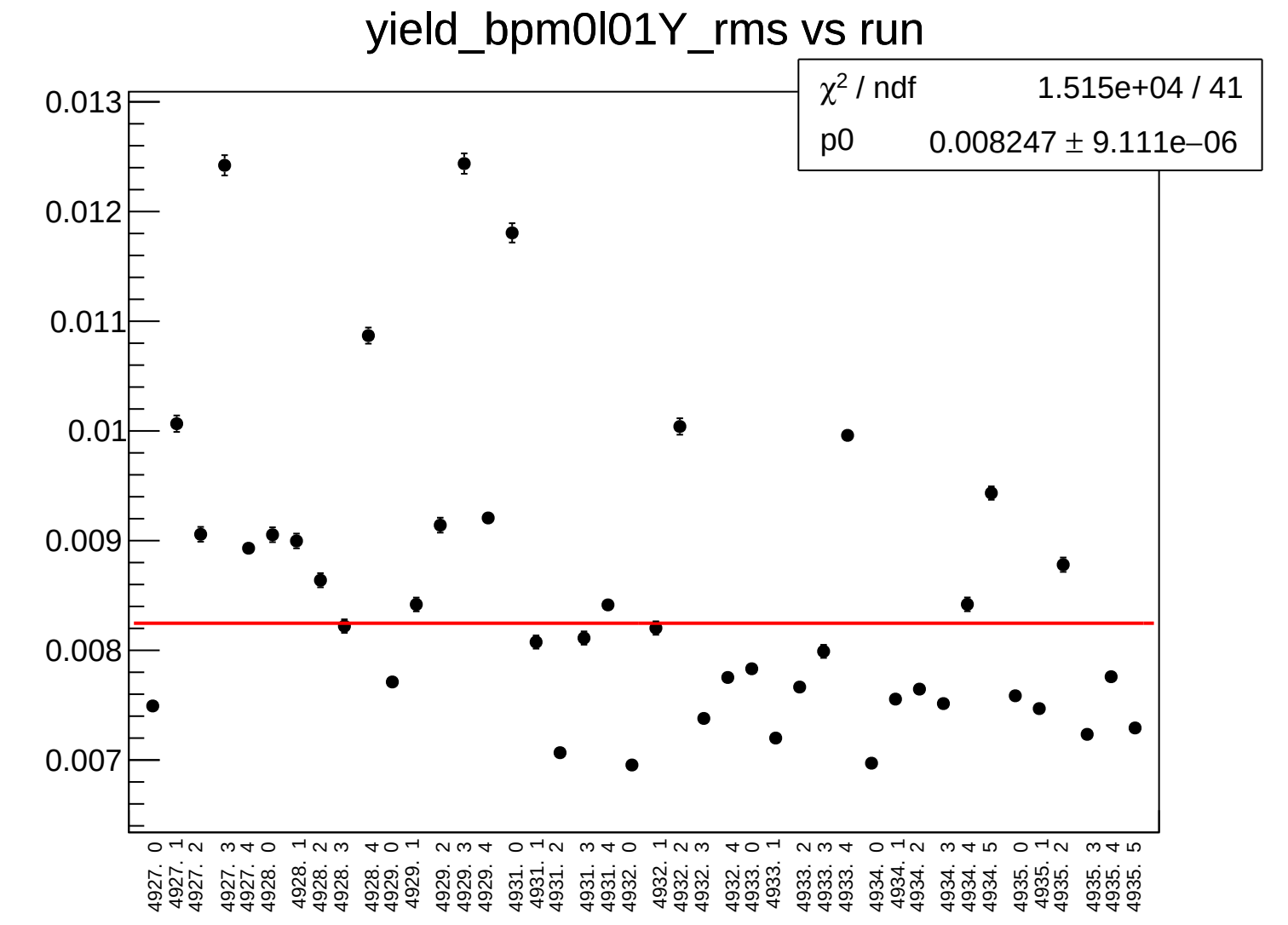

yield_bpm16Y_rms vs run
χ² / ndf 1.736e+04 / 41
p0 0.003063 ± 3.388e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

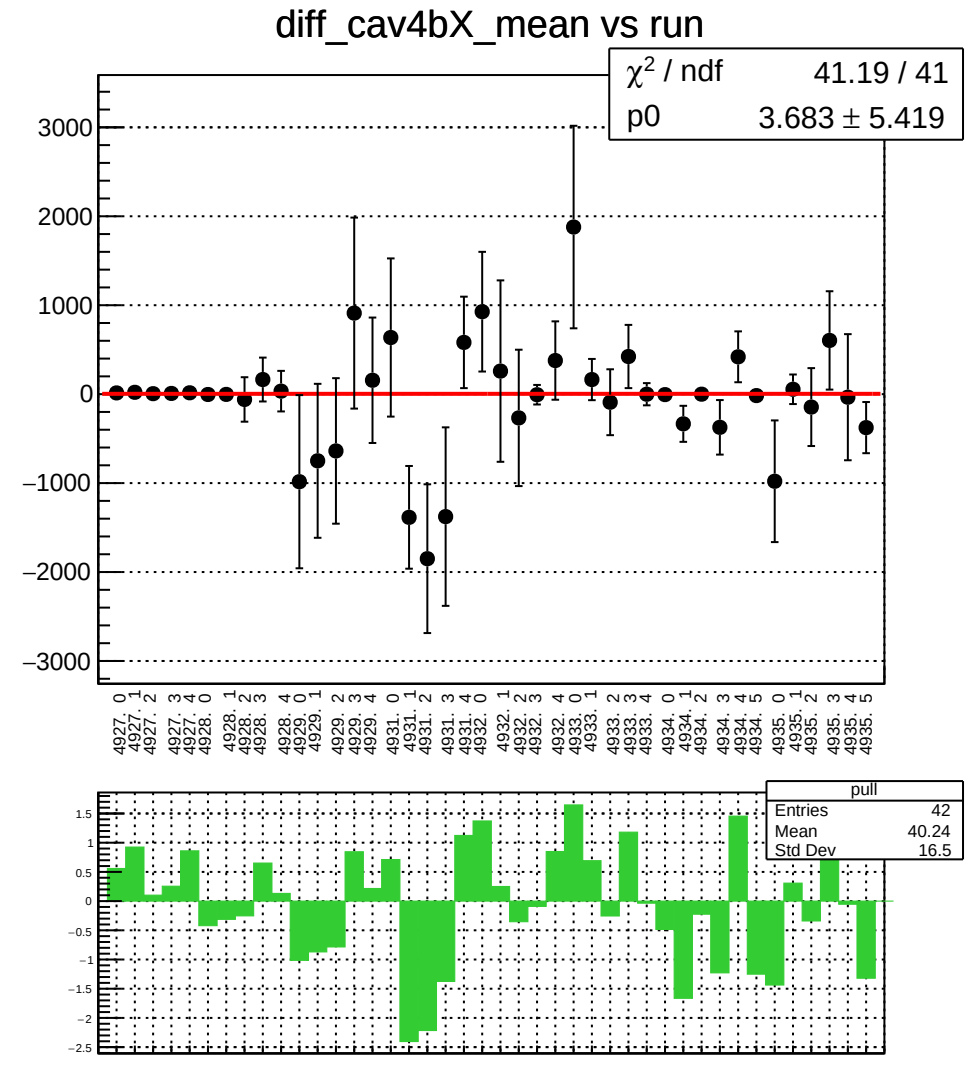

yield_bpm0l01X_mean vs run
χ² / ndf 2.647e+06 / 41
p0 −0.6118 ± 1.366e−05
pull
Entries 42
Mean −687.6
Std Dev 706.1

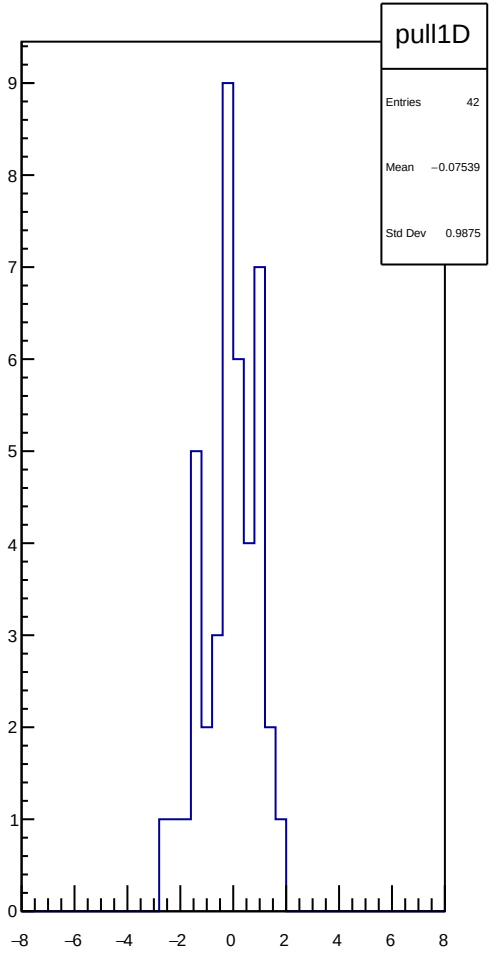

pull1D
Entries 42
Mean −7.599
Std Dev 0

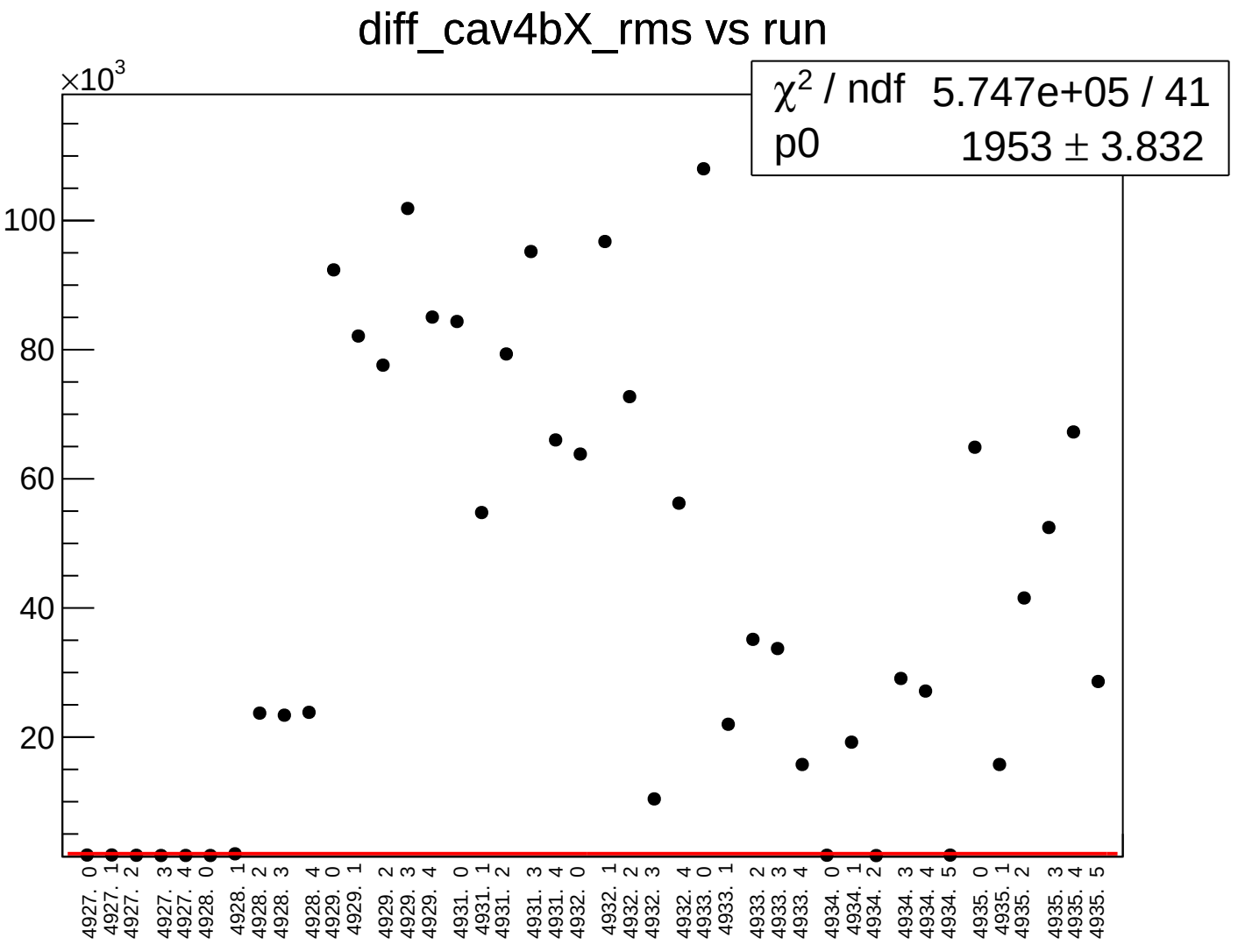

yield_bpm0l01X_rms vs run
χ² / ndf 7011 / 41
p0 0.008786 ± 9.658e−06
0.012
0.011
0.01
0.009
0.008
0.007
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

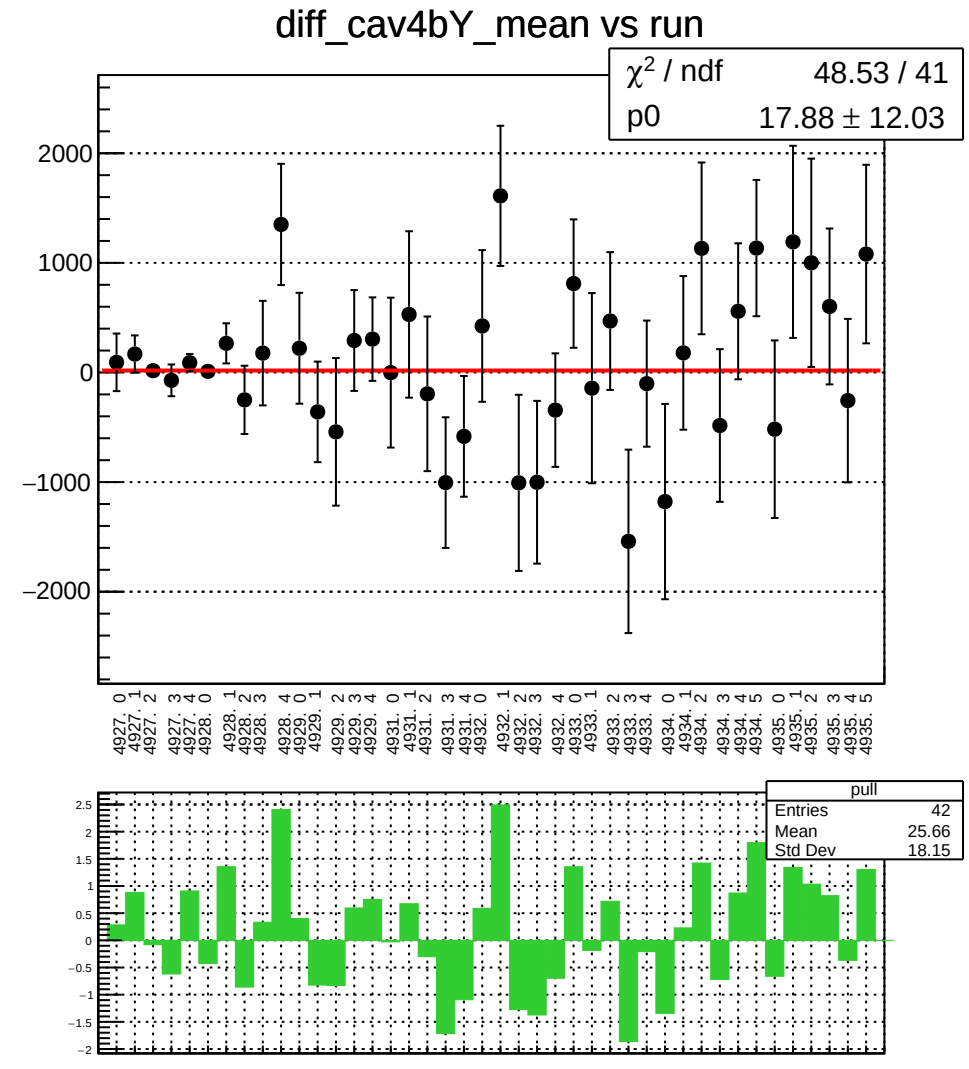

yield_bpm0l01Y_mean vs run
χ² / ndf 4.908e+05 / 41
p0 −5.529 ± 1.288e−05
−5.51
−5.515
−5.52
−5.525
−5.53
−5.535
−5.54
−5.545
−5.55
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935.
pull
Entries 42
Mean −198.3
Std Dev 217.1
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 42
Mean −0.8995
Std Dev 5.211
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

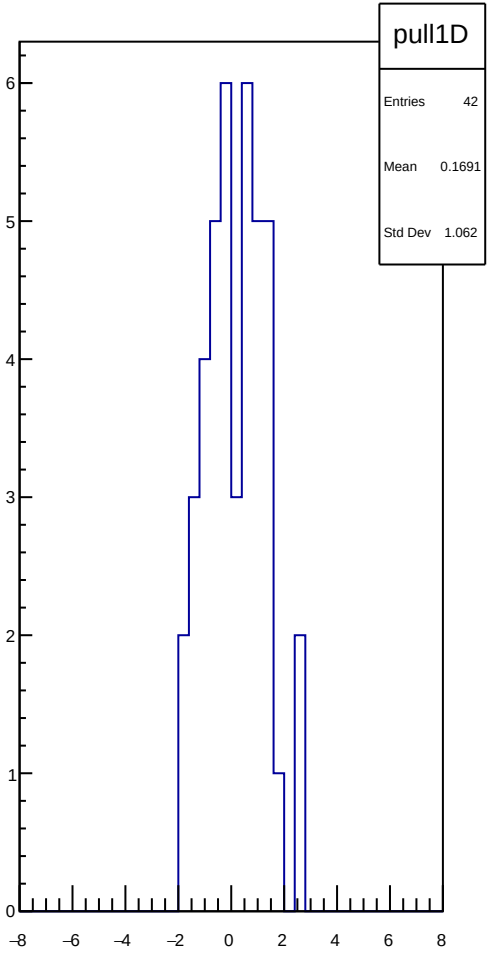

yield_bpm0l01Y_rms vs run
χ² / ndf 1.515e+04 / 41
p0 0.008247 ± 9.111e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

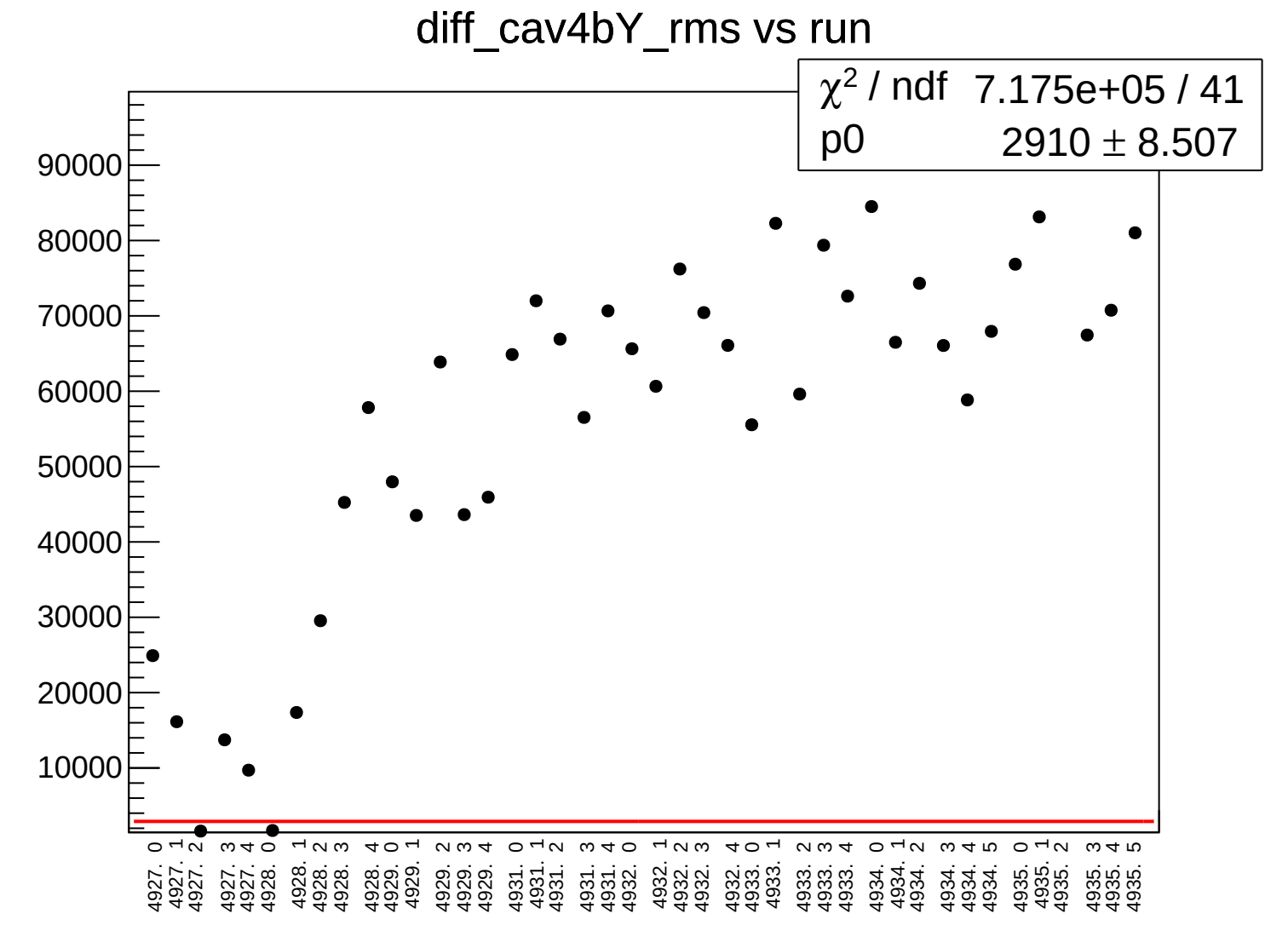

diff_cav4bX_mean vs run
χ² / ndf 41.19 / 41
p0 3.683 ± 5.419
3000
2000
1000
0
−1000
−2000
−3000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 40.24
Std Dev 16.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

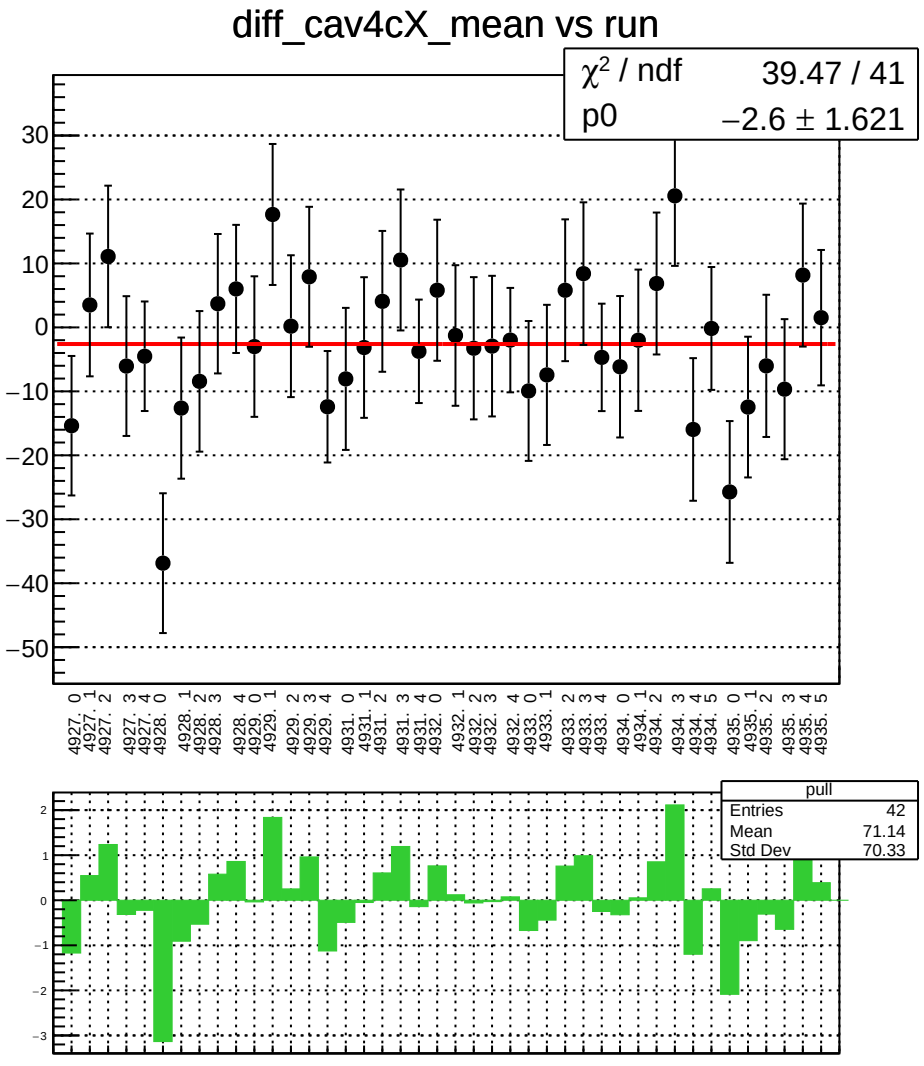

pull1D
Entries 42
Mean −0.07539
Std Dev 0.9875
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

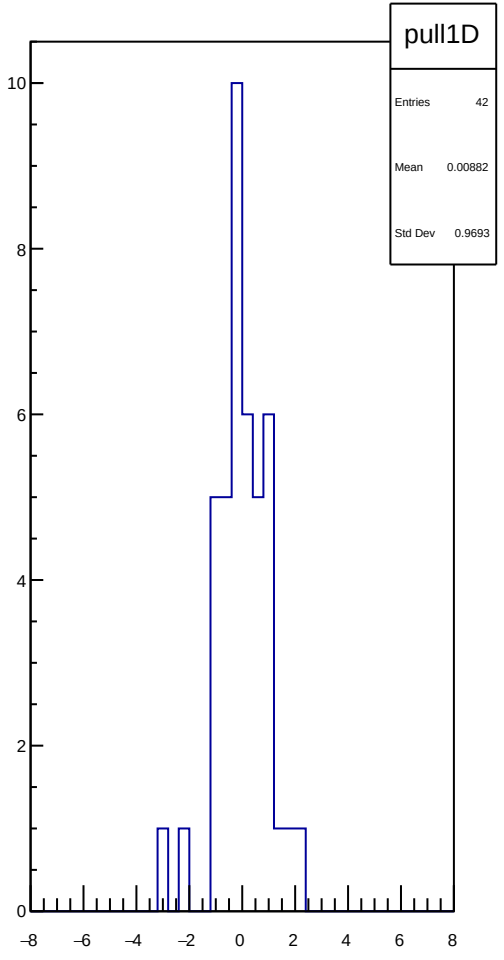

diff_cav4bX_rms vs run
×10^3
χ^2 / ndf 5.747e+05 / 41
p0 1953 ± 3.832
100
80
60
40
20
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

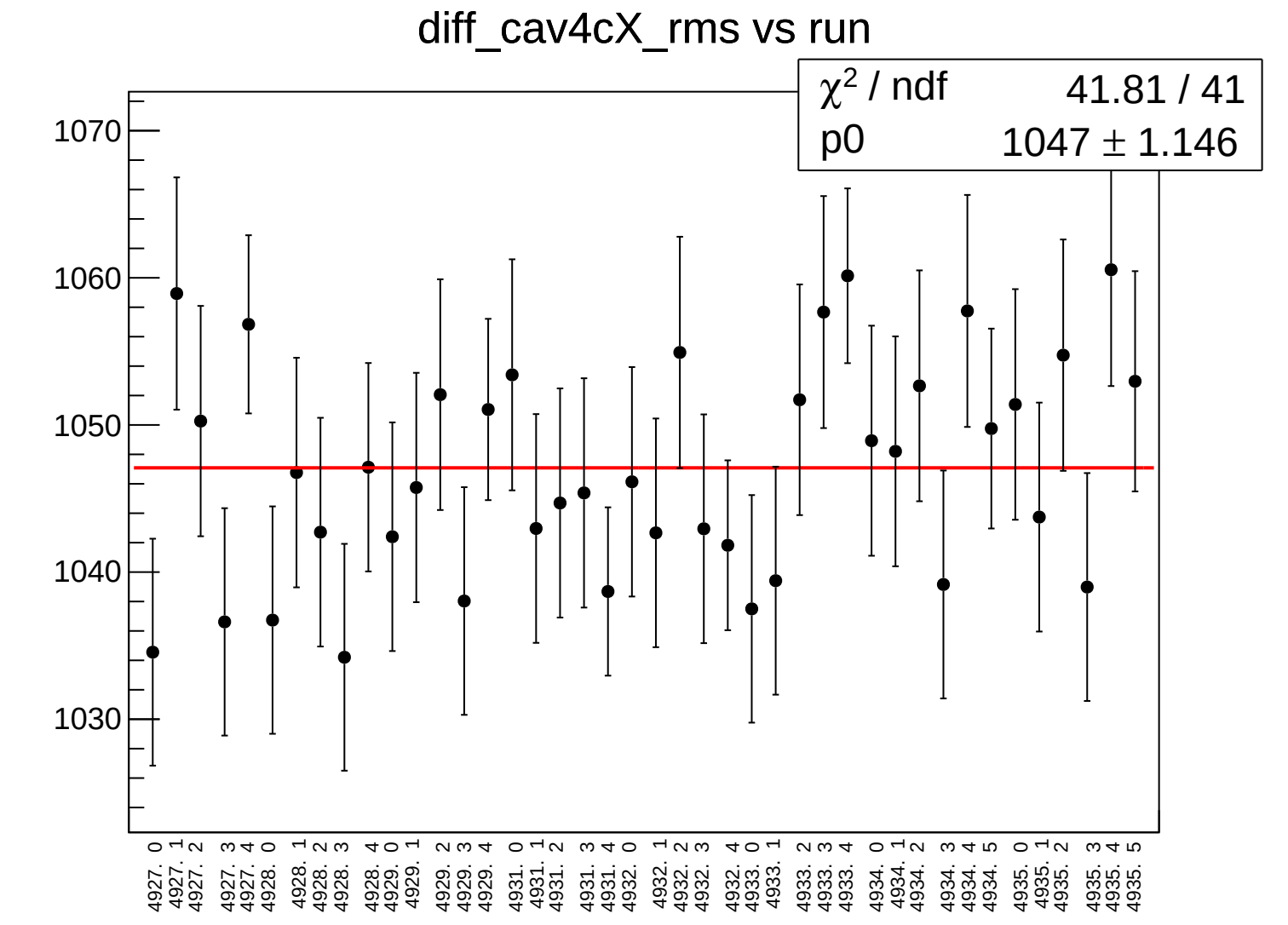

diff_cav4bY_mean vs run
χ² / ndf 48.53 / 41
p0 17.88 ± 12.03
2000
1000
0
−1000
−2000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 25.66
Std Dev 18.15
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

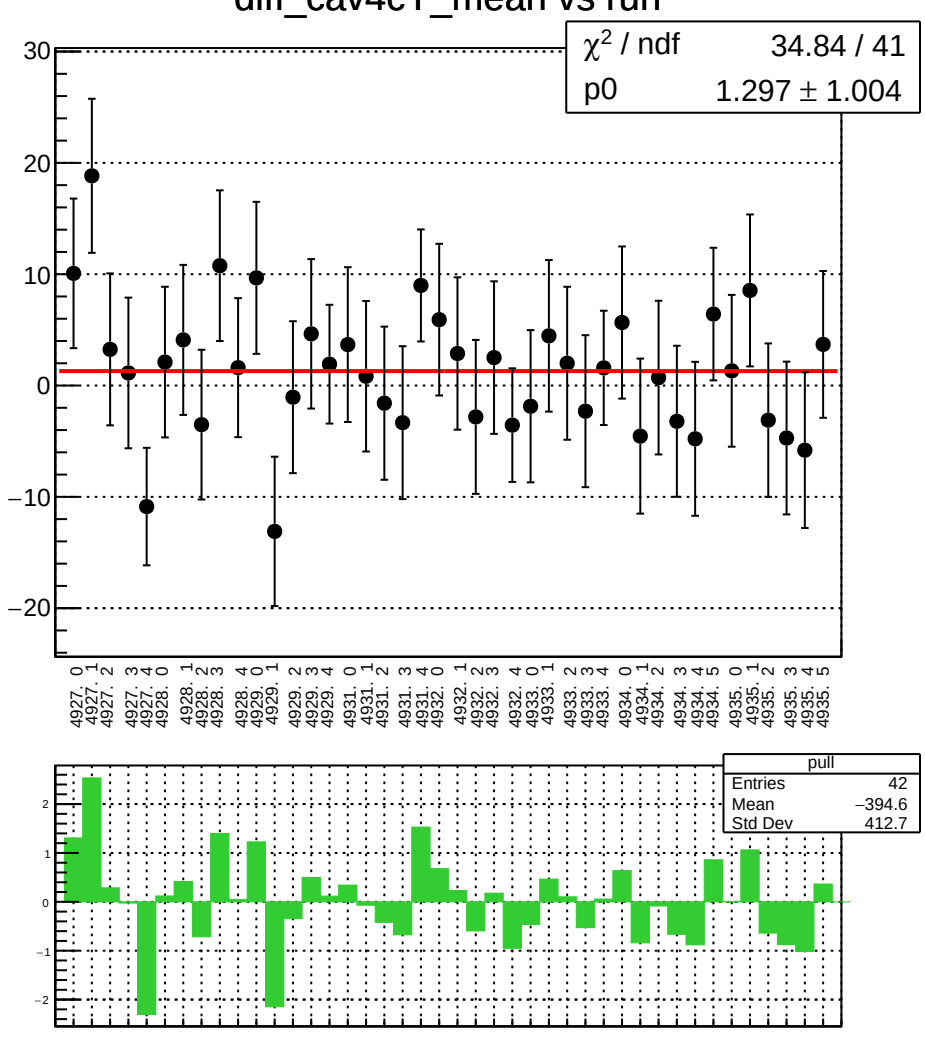

pull1D
Entries 42
Mean 0.1691
Std Dev 1.062
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

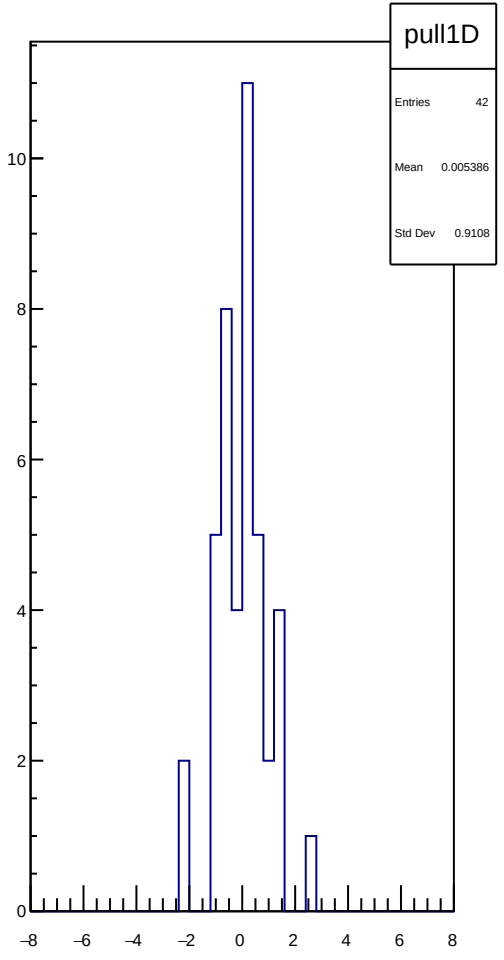

diff_cav4bY_rms vs run
χ² / ndf 7.175e+05 / 41
p0 2910 ± 8.507
90000
80000
70000
60000
50000
40000
30000
20000
10000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

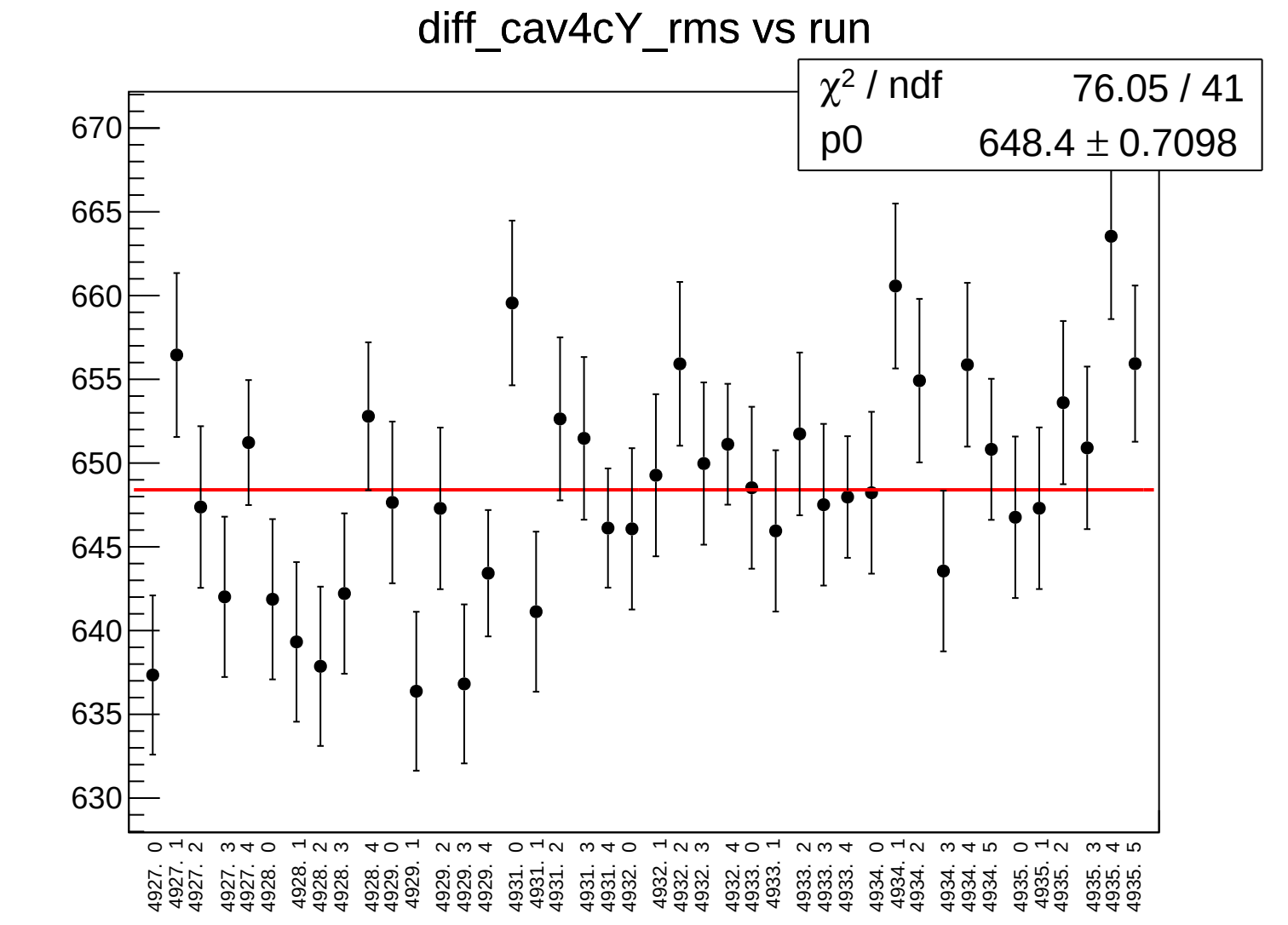

diff_cav4cX_mean vs run
χ² / ndf 39.47 / 41
p0 −2.6 ± 1.621
pull
Entries 42
Mean 71.14
Std Dev 70.33

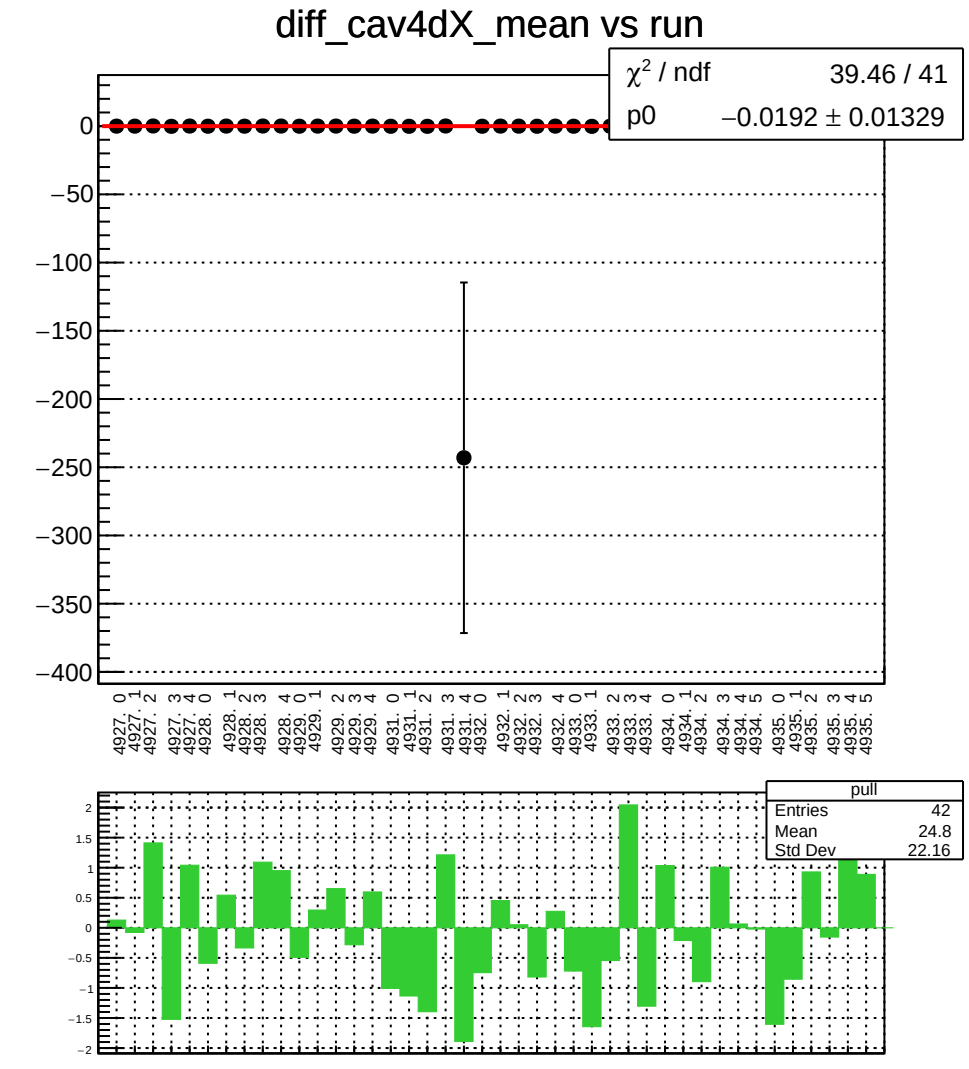

pull1D
Entries 42
Mean 0.00882
Std Dev 0.9693

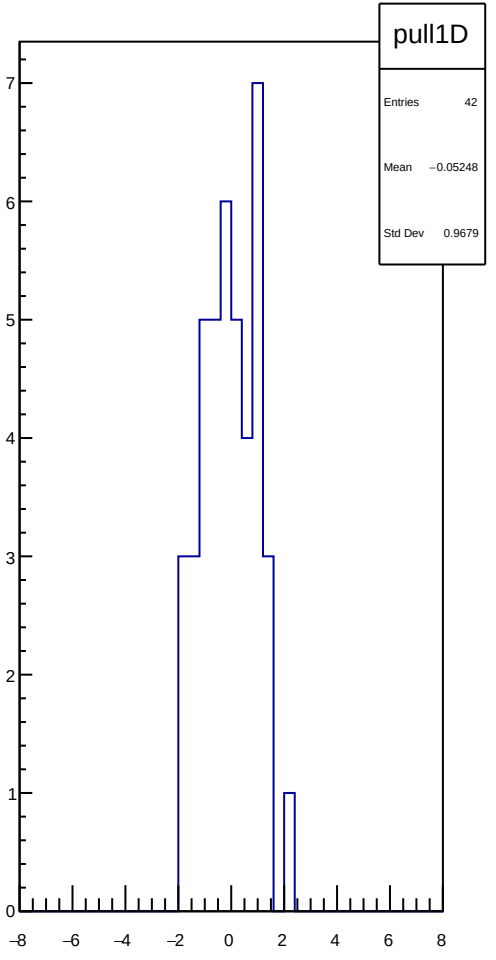

diff_cav4cX_rms vs run
χ² / ndf 41.81 / 41
p0 1047 ± 1.146
1070
1060
1050
1040
1030
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

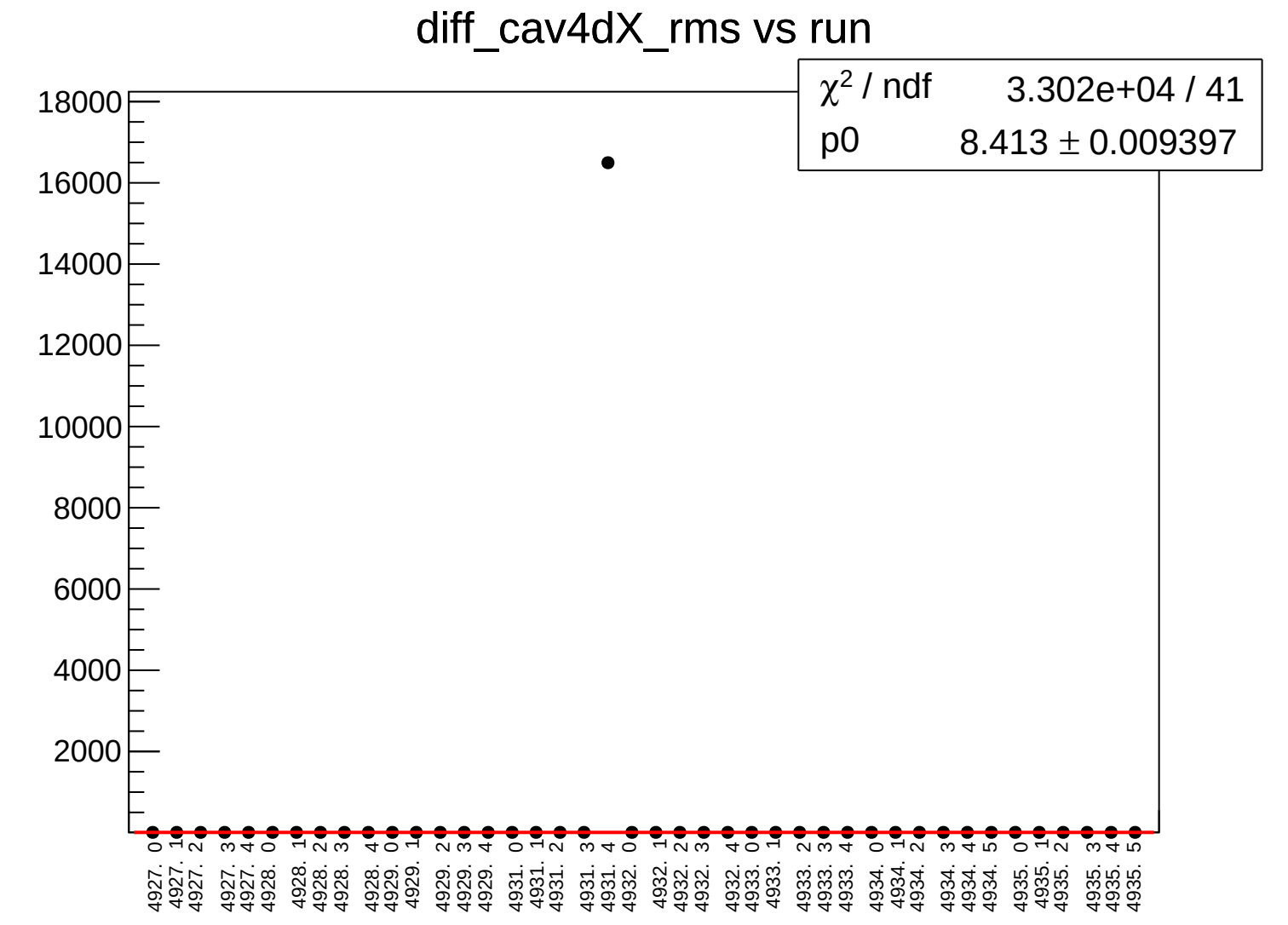

diff_cav4cY_mean vs run
χ² / ndf 34.84 / 41
p0 1.297 ± 1.004
pull
Entries 42
Mean −394.6
Std Dev 412.7

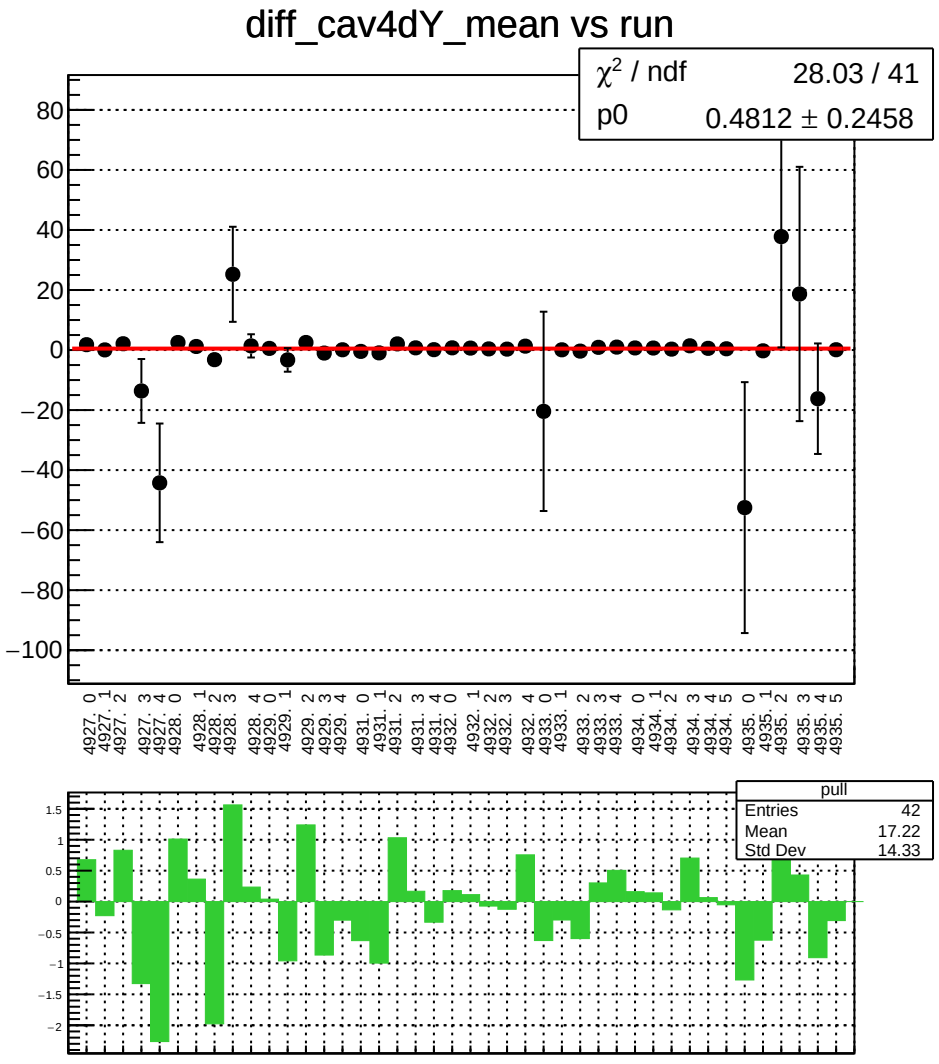

pull1D
Entries 42
Mean 0.005386
Std Dev 0.9108

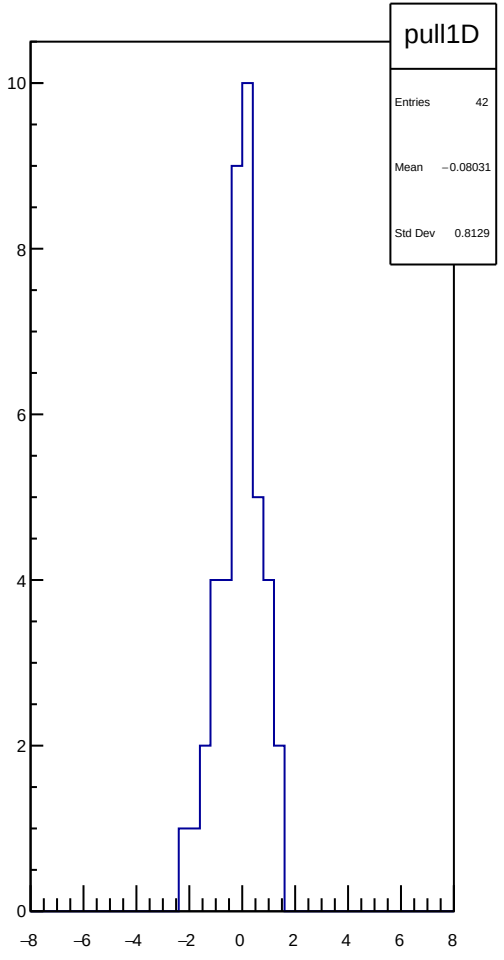

diff_cav4cY_rms vs run
χ² / ndf 76.05 / 41
p0 648.4 ± 0.7098
670
665
660
655
650
645
640
635
630
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

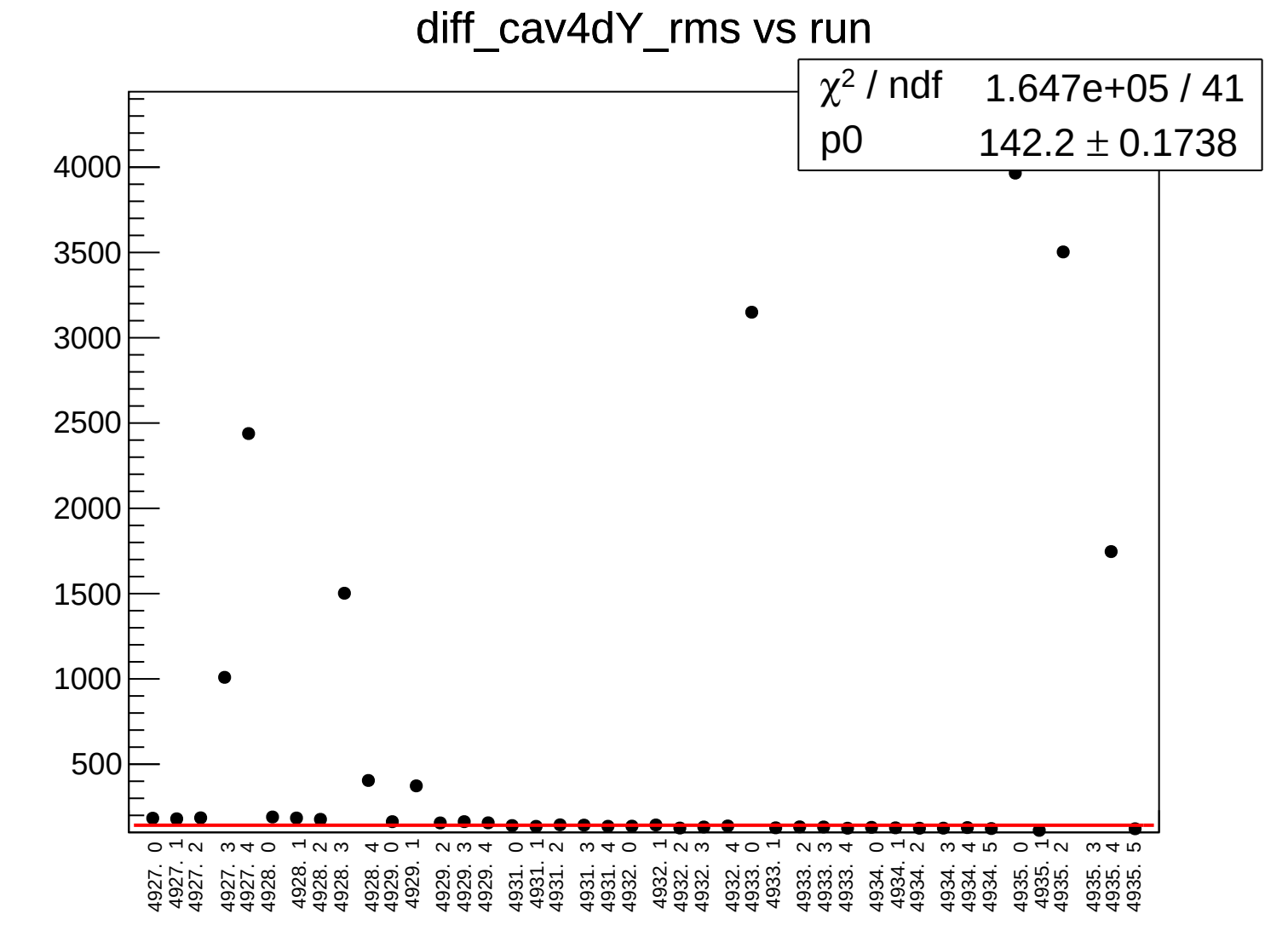

diff_cav4dX_mean vs run
χ² / ndf 39.46 / 41
p0 −0.0192 ± 0.01329
0
−50
−100
−150
−200
−250
−300
−350
−400
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 24.8
Std Dev 22.16
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

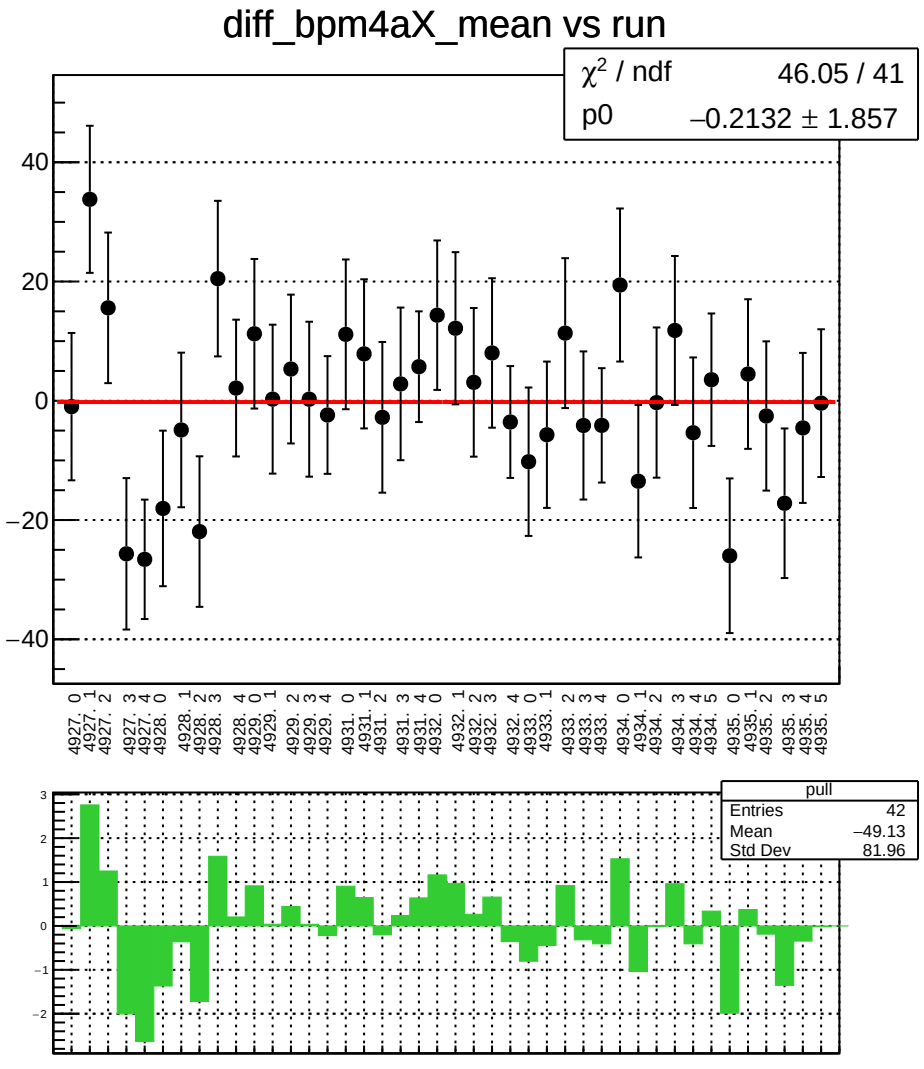

pull1D
Entries 42
Mean −0.05248
Std Dev 0.9679
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

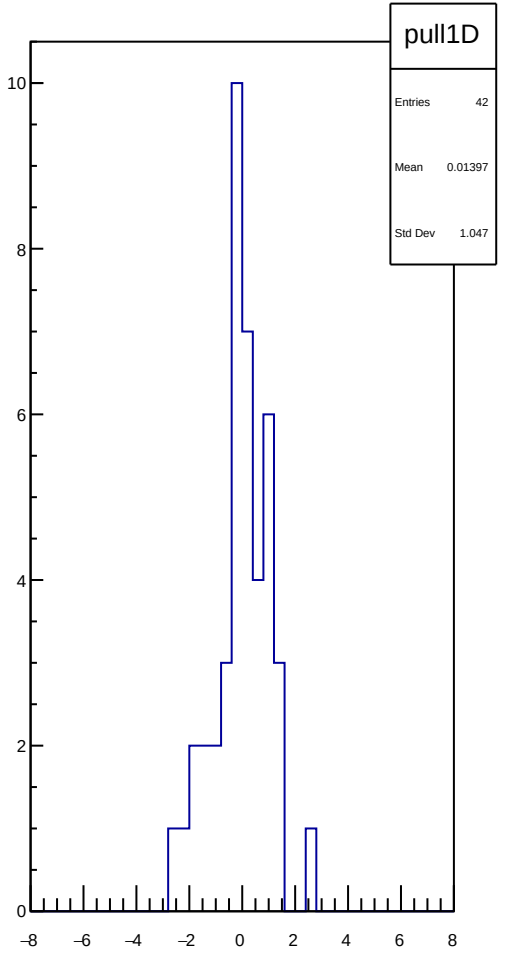

diff_cav4dX_rms vs run
χ^2 / ndf 3.302e+04 / 41
p0 8.413 ± 0.009397
18000
16000
14000
12000
10000
8000
6000
4000
2000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

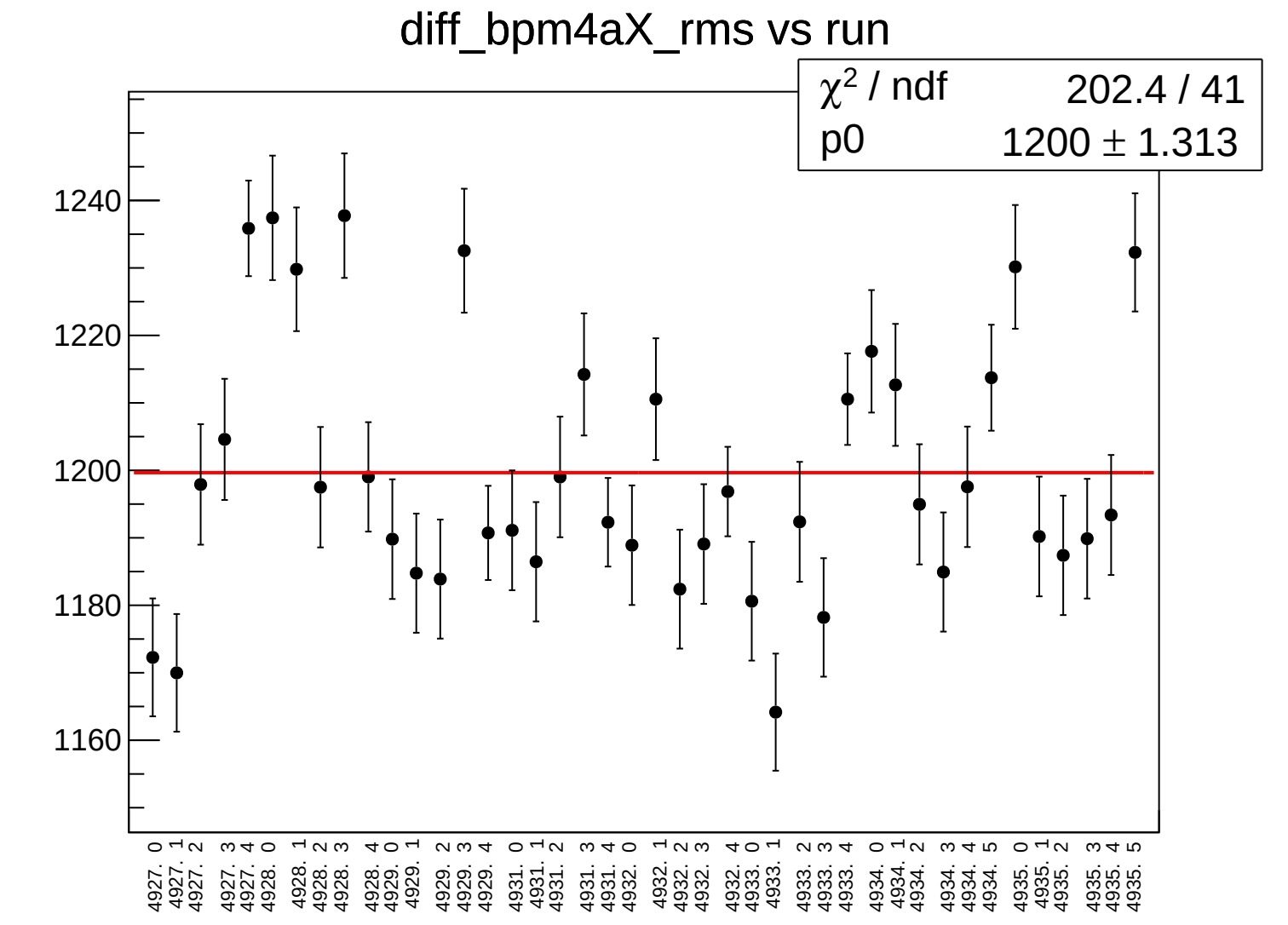

diff_cav4dY_mean vs run
χ² / ndf 28.03 / 41
p0 0.4812 ± 0.2458
pull
Entries 42
Mean 17.22
Std Dev 14.33

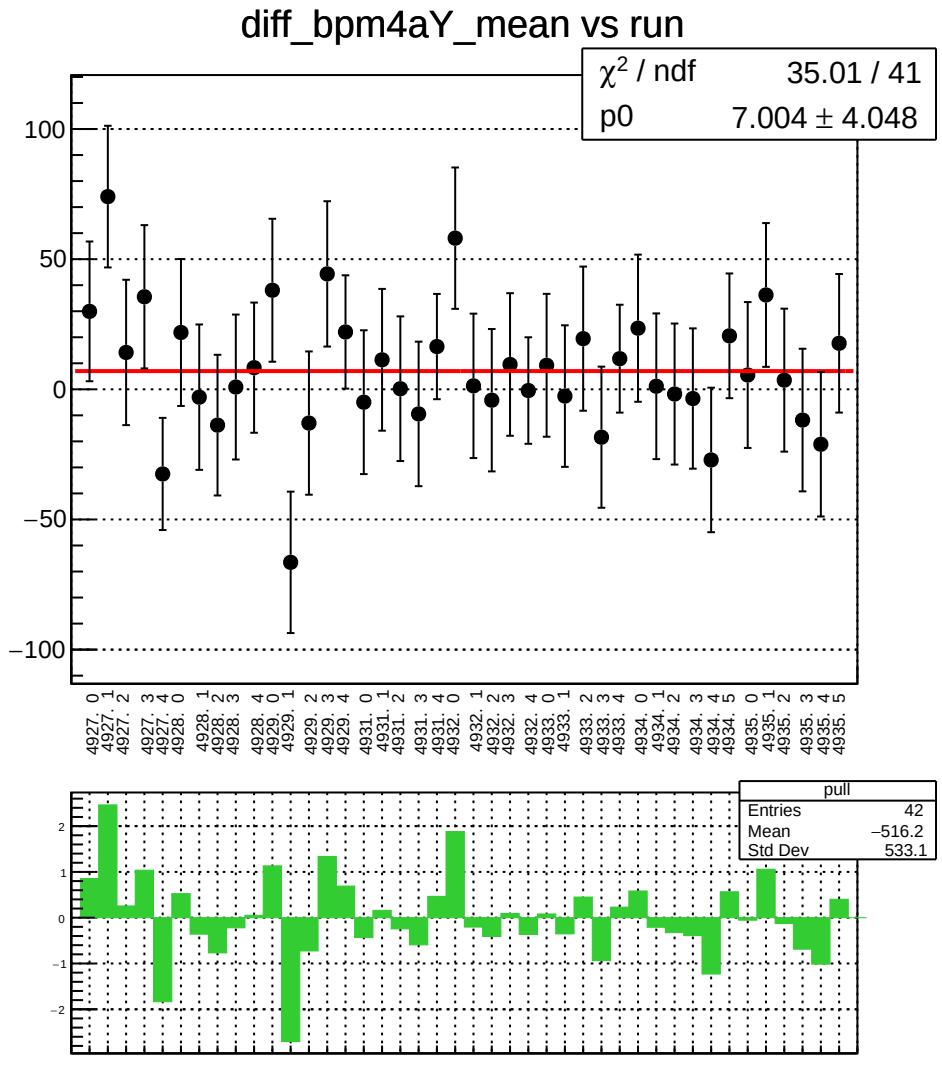

pull1D
Entries 42
Mean −0.08031
Std Dev 0.8129

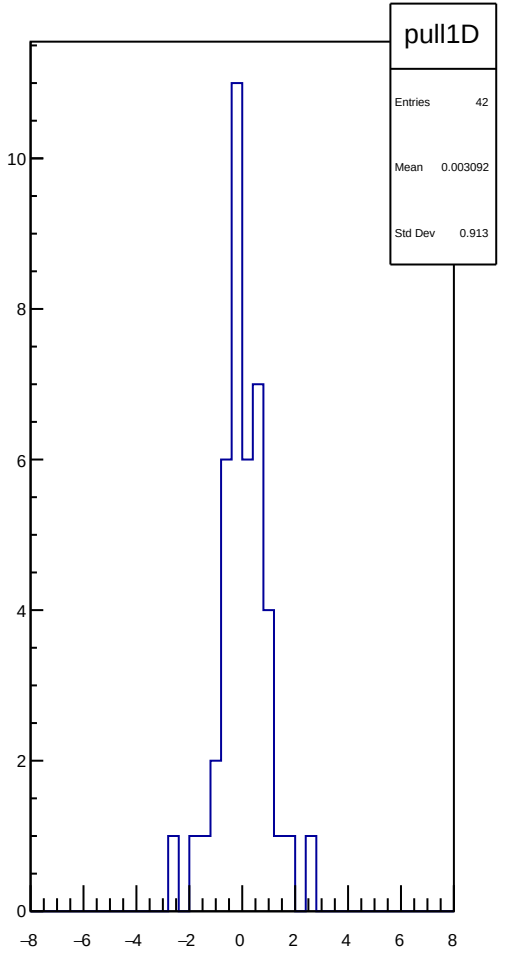

diff_cav4dY_rms vs run
χ² / ndf 1.647e+05 / 41
p0 142.2 ± 0.1738
4000
3500
3000
2500
2000
1500
1000
500
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

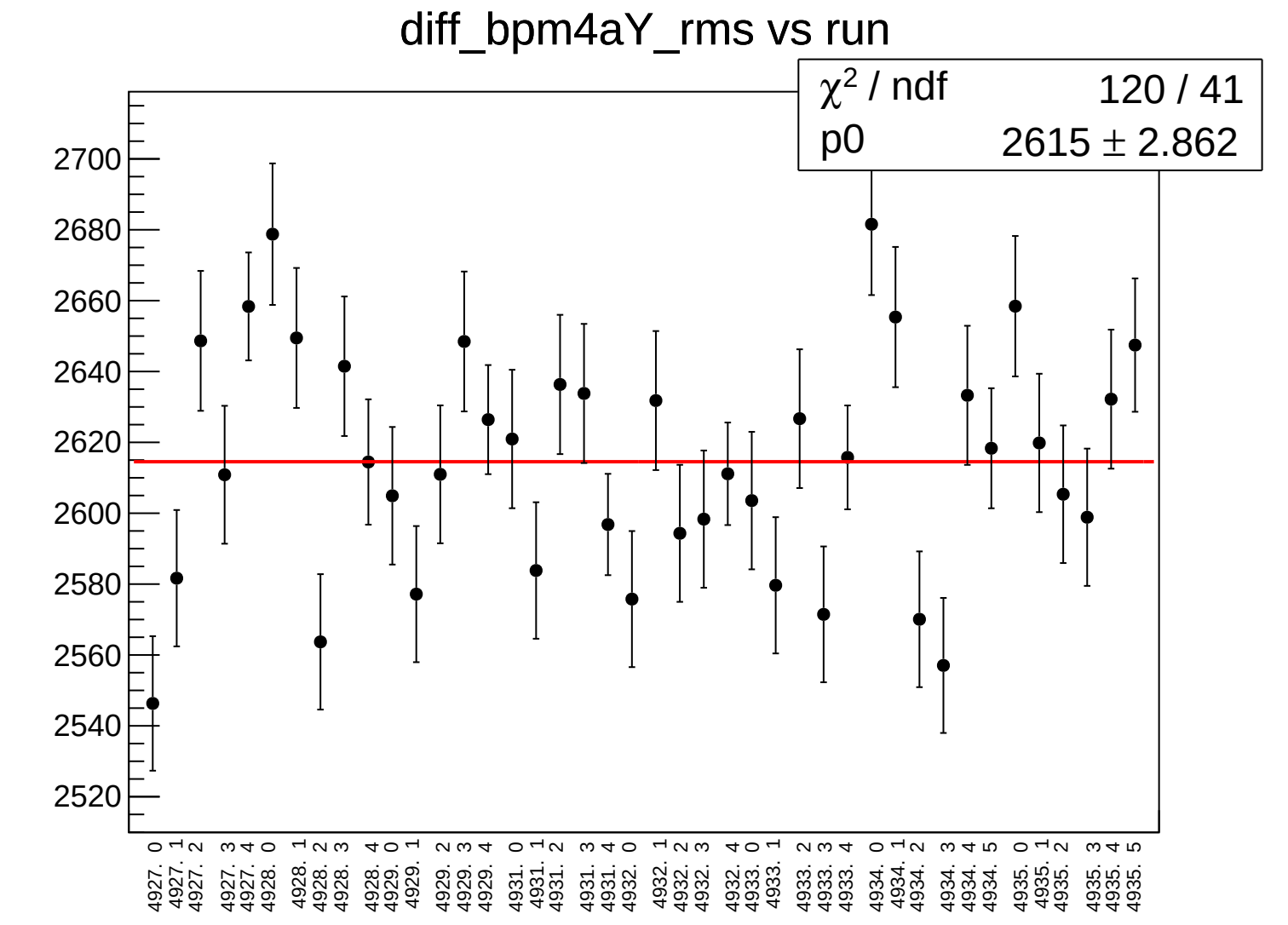

diff_bpm4aX_mean vs run
χ² / ndf 46.05 / 41
p0 −0.2132 ± 1.857
40
20
0
−20
−40
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −49.13
Std Dev 81.96
3
2
1
0
−1
−2

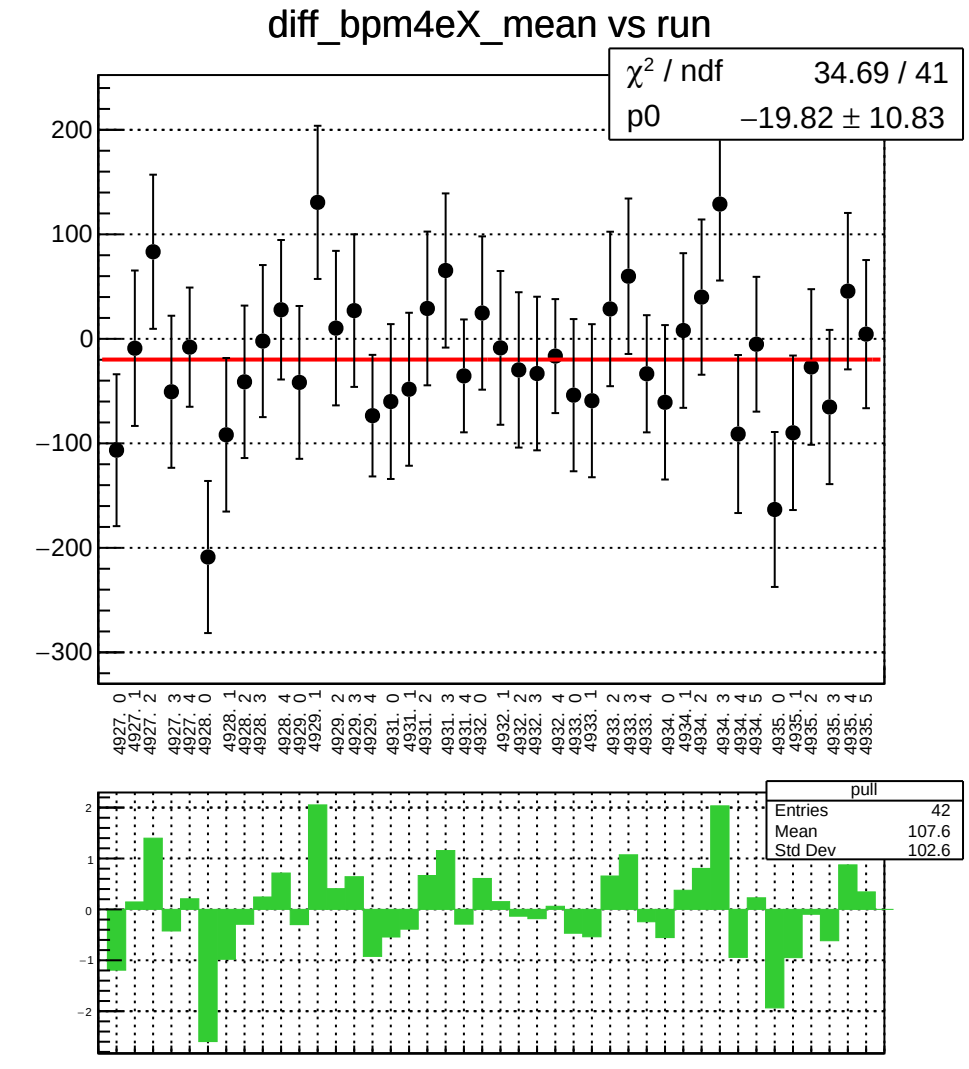

pull1D
Entries 42
Mean 0.01397
Std Dev 1.047
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

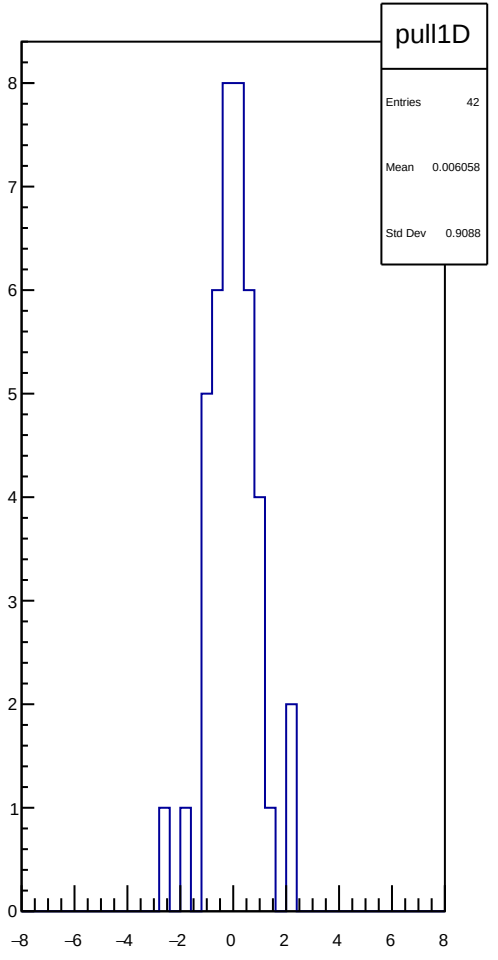

diff_bpm4aX_rms vs run
χ² / ndf 202.4 / 41
p0 1200 ± 1.313
1240
1220
1200
1180
1160
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

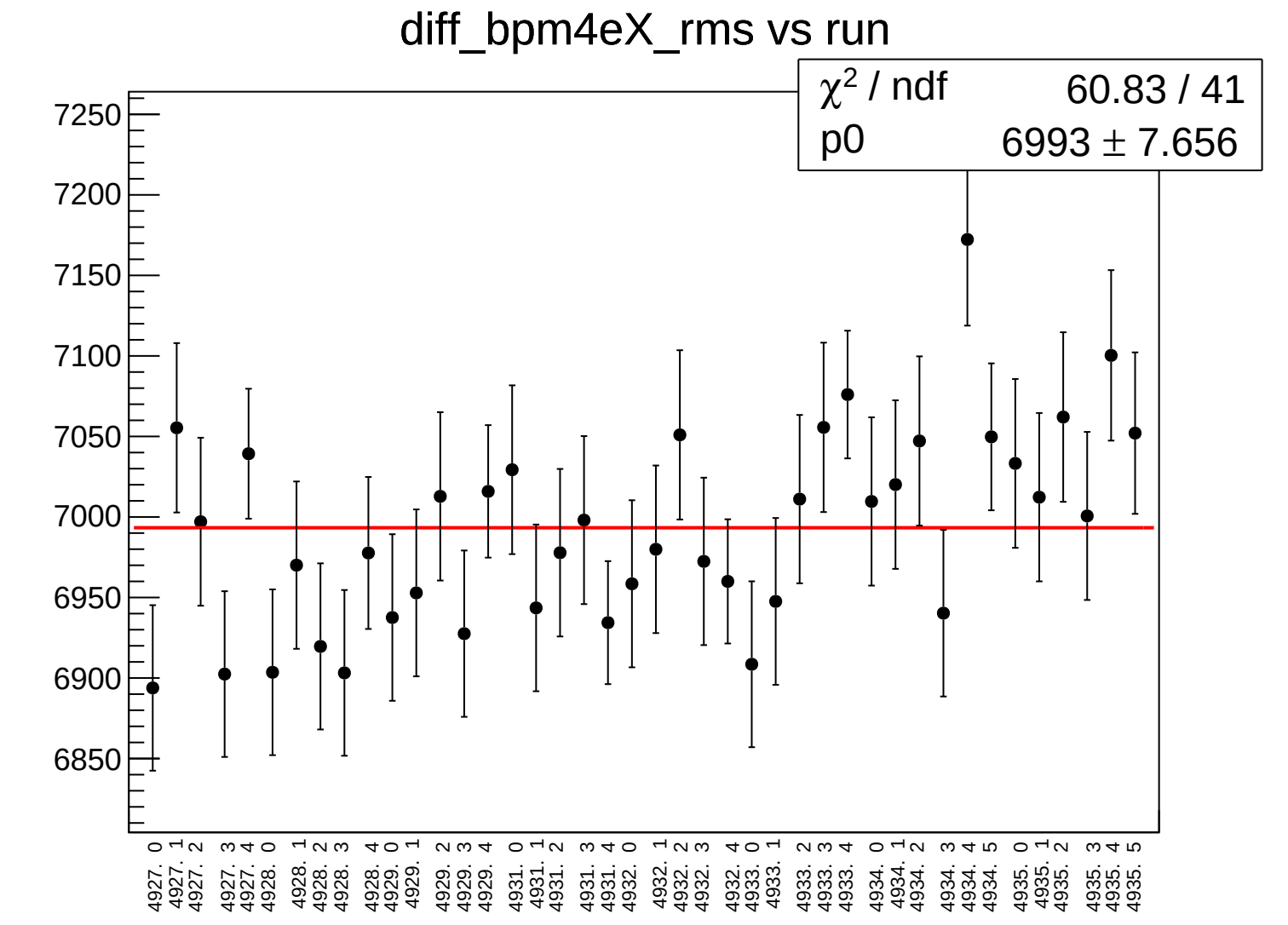

diff_bpm4aY_mean vs run
χ² / ndf 35.01 / 41
p0 7.004 ± 4.048
100
50
0
−50
−100
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −516.2
Std Dev 533.1
2
1
0
−1
−2

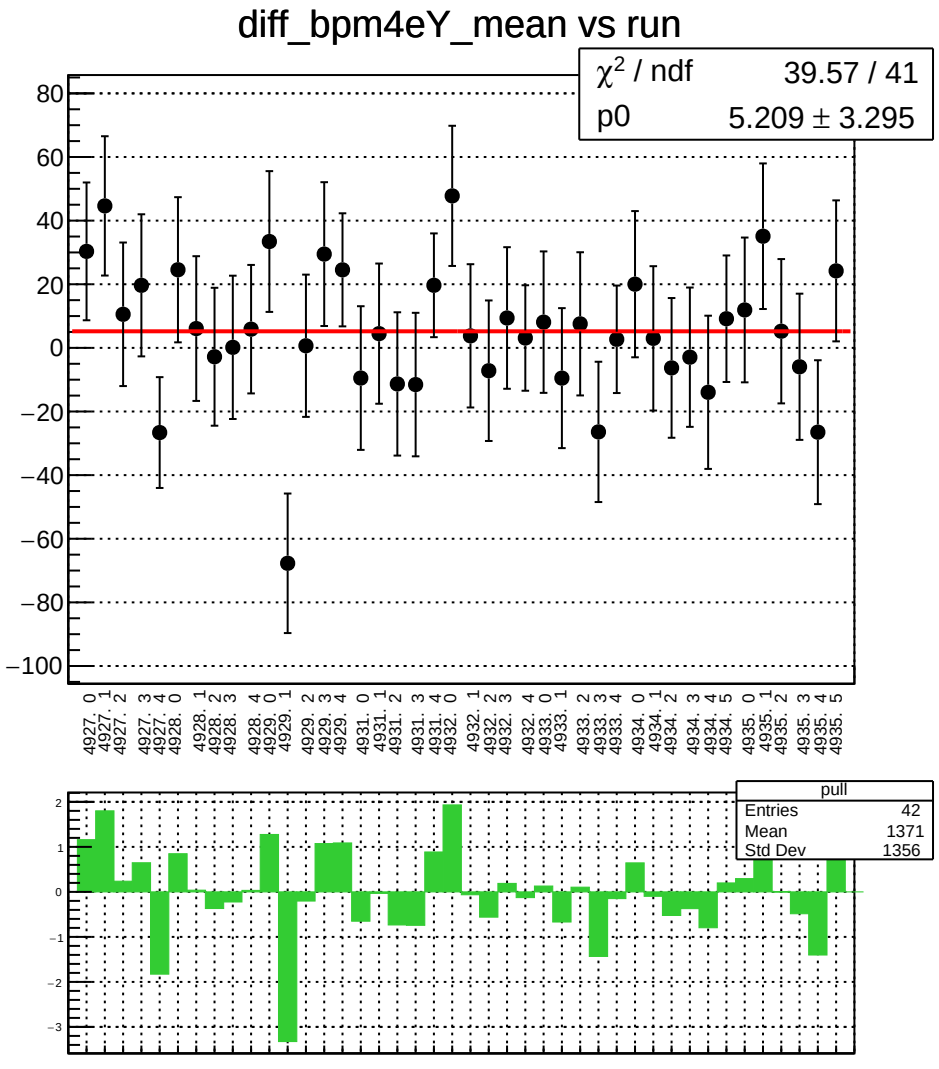

pull1D
Entries 42
Mean 0.003092
Std Dev 0.913
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

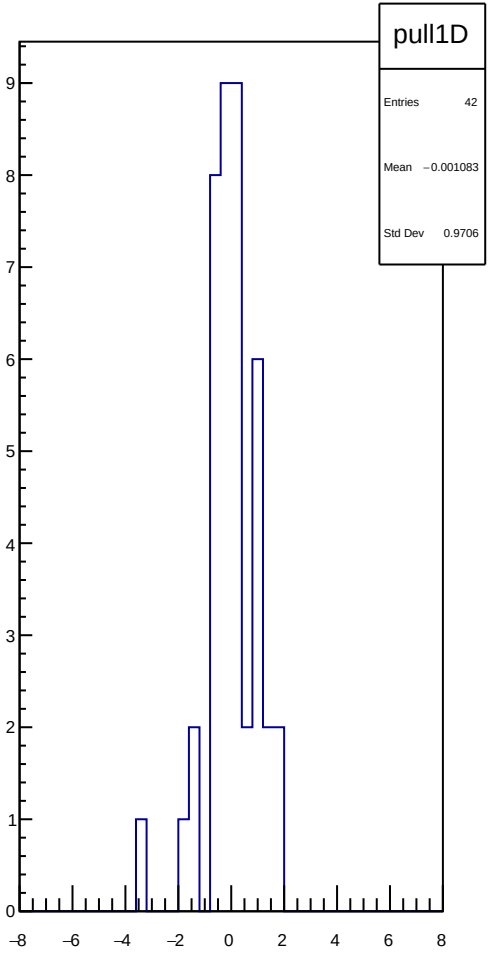

diff_bpm4aY_rms vs run
χ² / ndf 120 / 41
p0 2615 ± 2.862
2700
2680
2660
2640
2620
2600
2580
2560
2540
2520
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

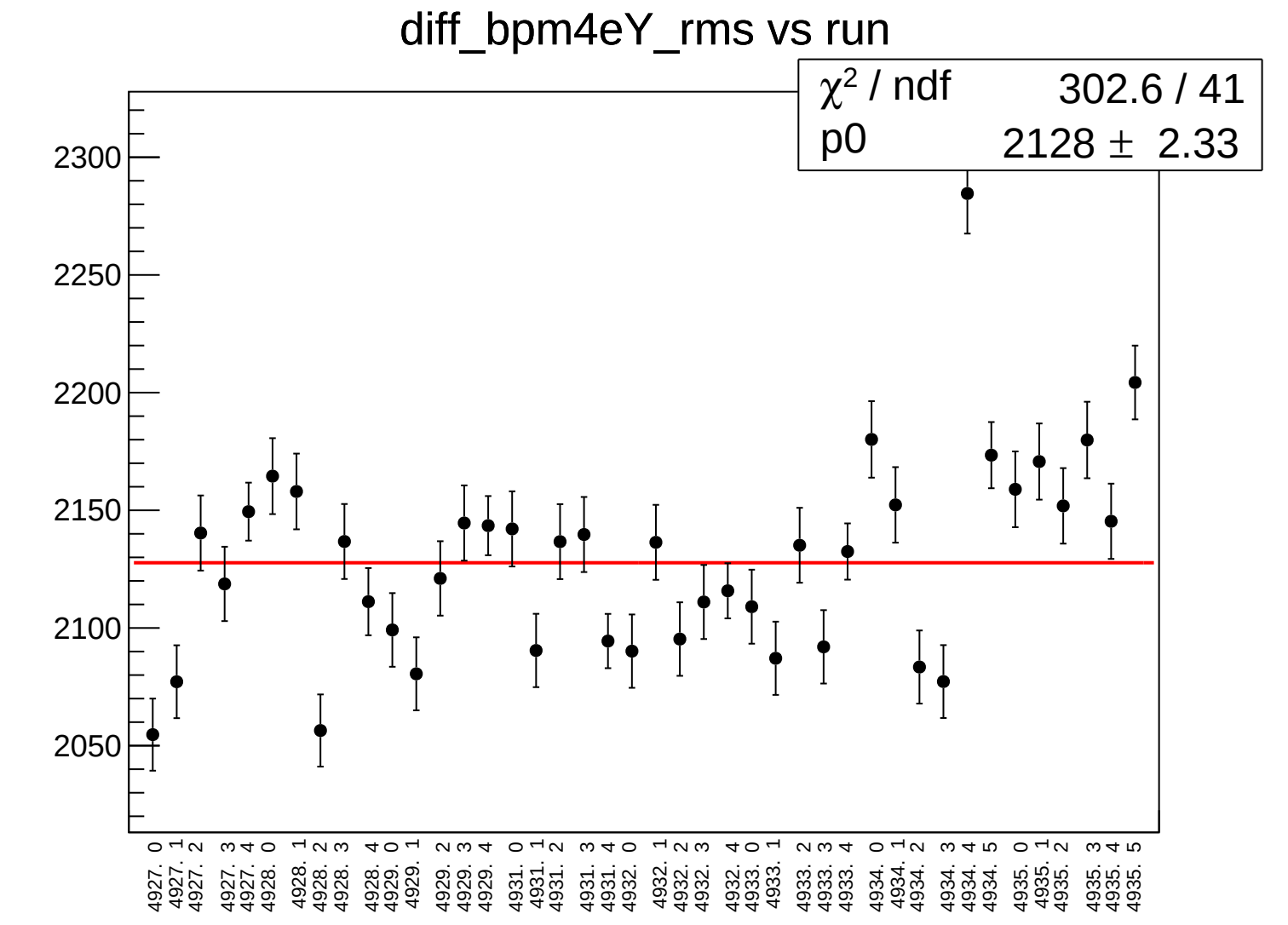

diff_bpm4eX_mean vs run
χ² / ndf 34.69 / 41
p0 −19.82 ± 10.83
200
100
0
−100
−200
−300
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 107.6
Std Dev 102.6
2
1
0
−1
−2

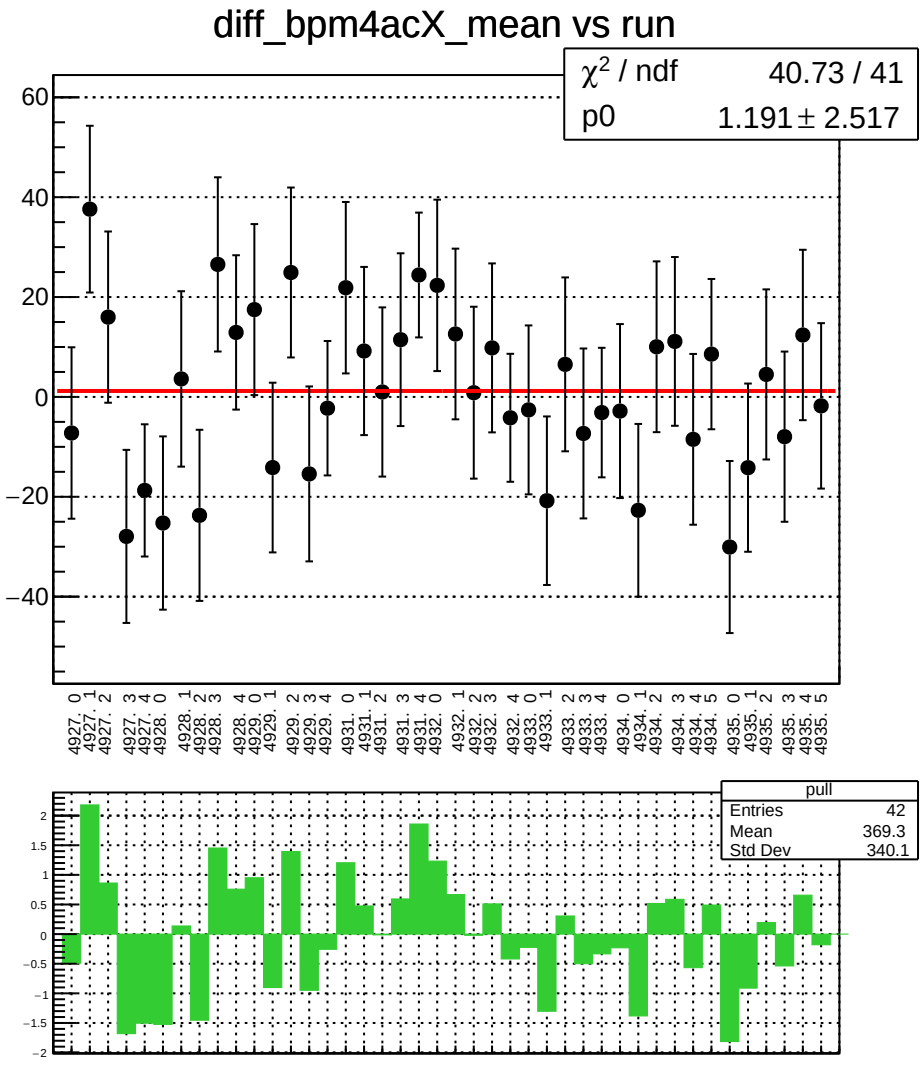

pull1D
Entries 42
Mean 0.006058
Std Dev 0.9088
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

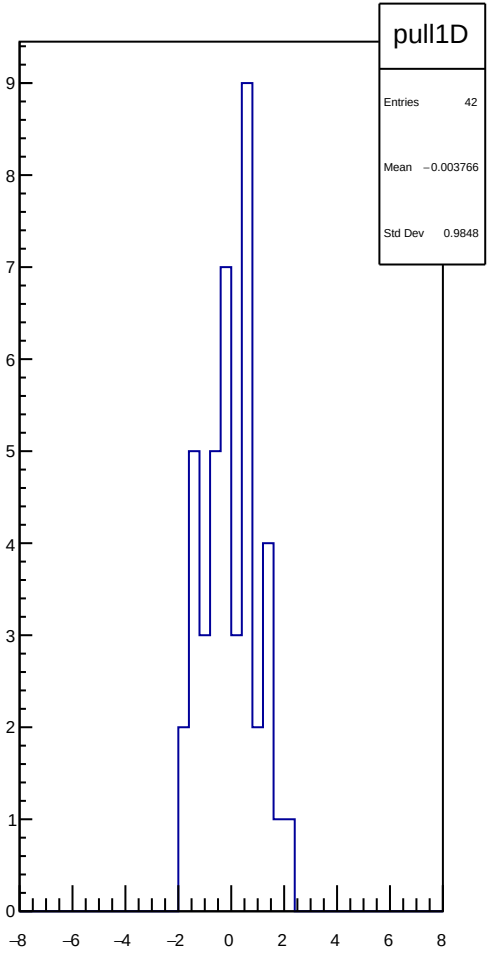

diff_bpm4eX_rms vs run
χ² / ndf 60.83 / 41
p0 6993 ± 7.656
7250
7200
7150
7100
7050
7000
6950
6900
6850
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

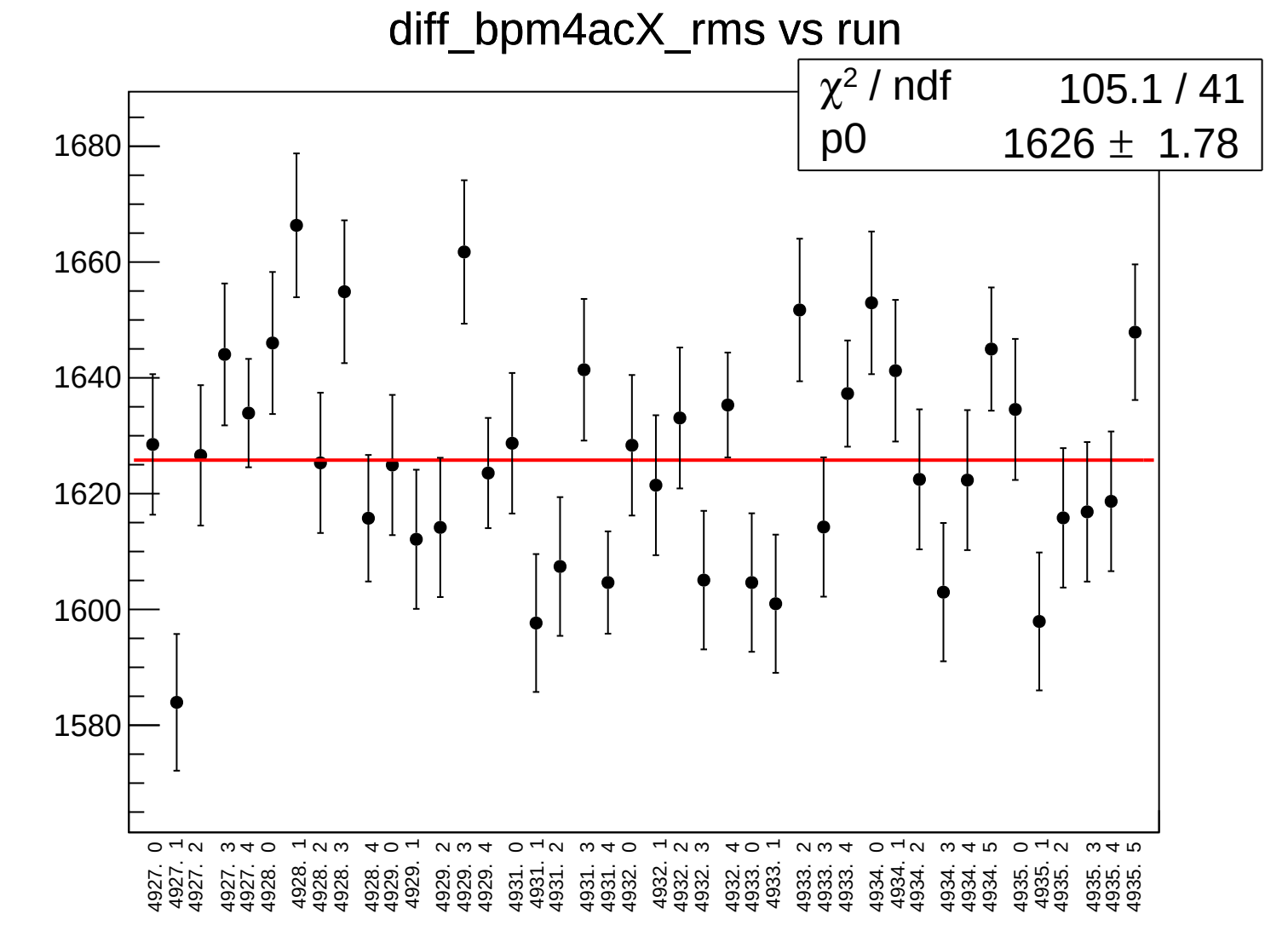

diff_bpm4eY_mean vs run
χ² / ndf 39.57 / 41
p0 5.209 ± 3.295
pull
Entries 42
Mean 1371
Std Dev 1356

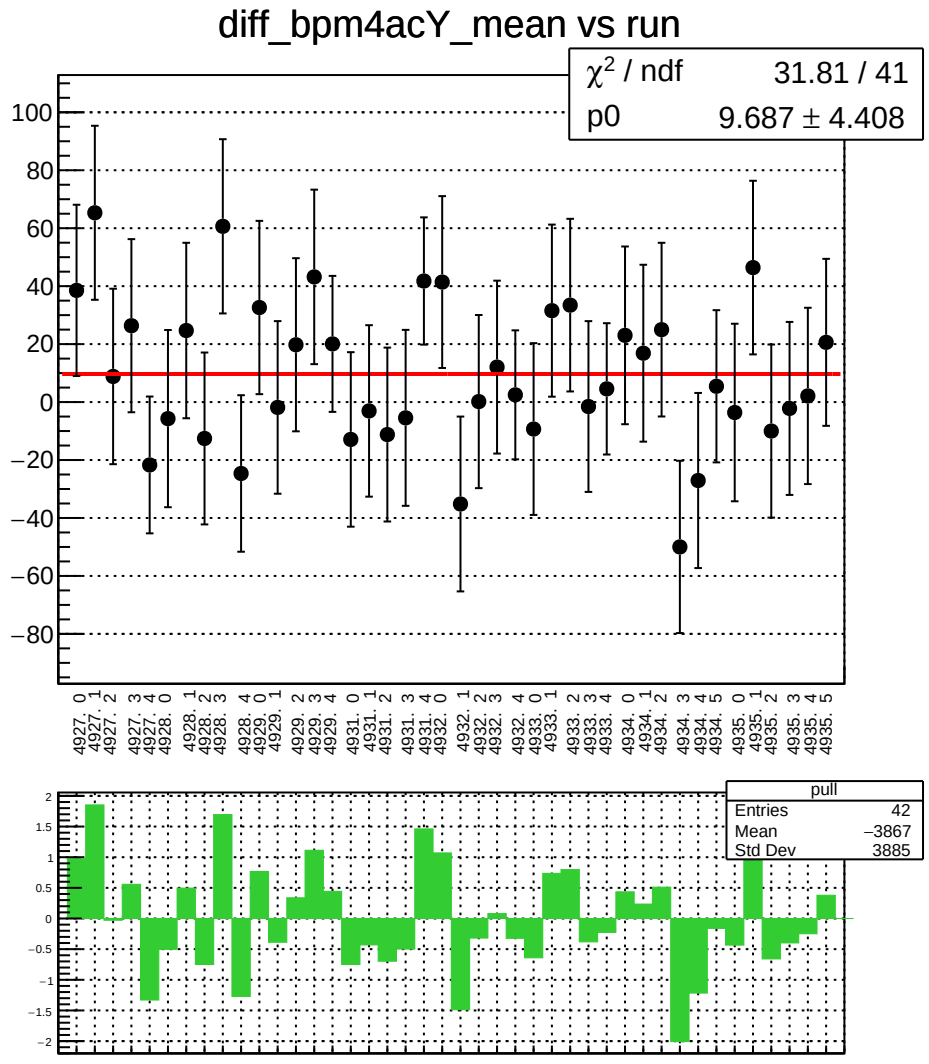

pull1D
Entries 42
Mean −0.001083
Std Dev 0.9706

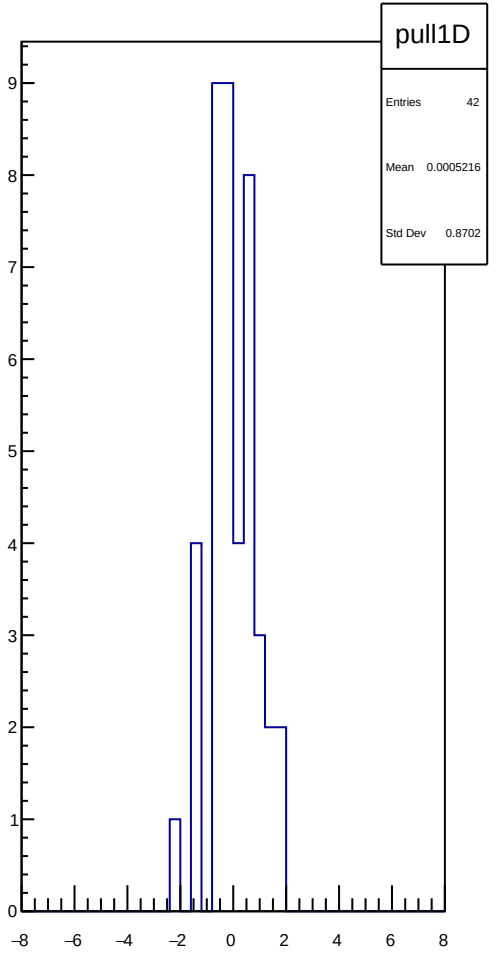

diff_bpm4eY_rms vs run
χ² / ndf 302.6 / 41
p0 2128 ± 2.33
2300
2250
2200
2150
2100
2050
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

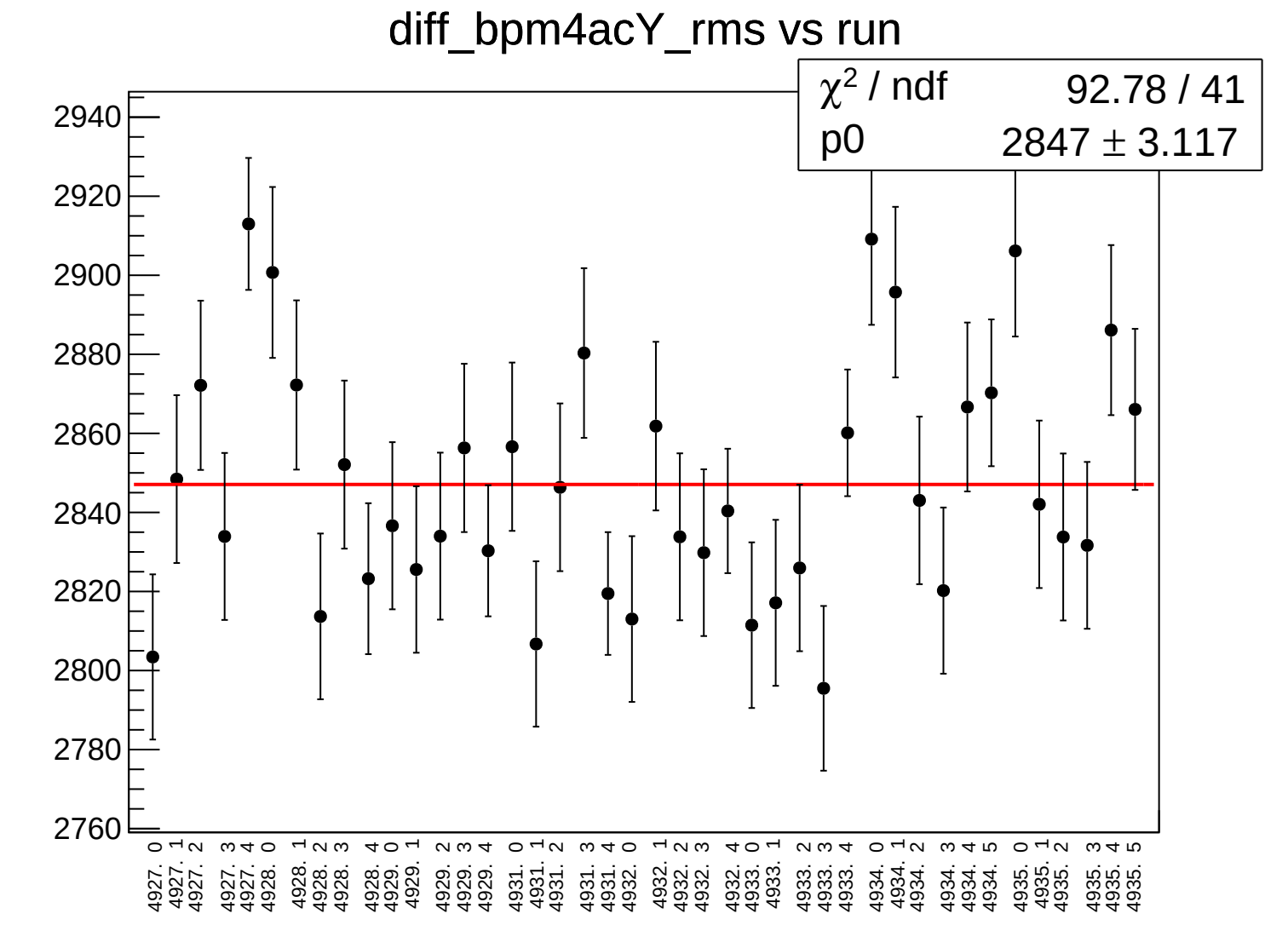

diff_bpm4acX_mean vs run
χ² / ndf 40.73 / 41
p0 1.191 ± 2.517
60
40
20
0
−20
−40
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 369.3
Std Dev 340.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

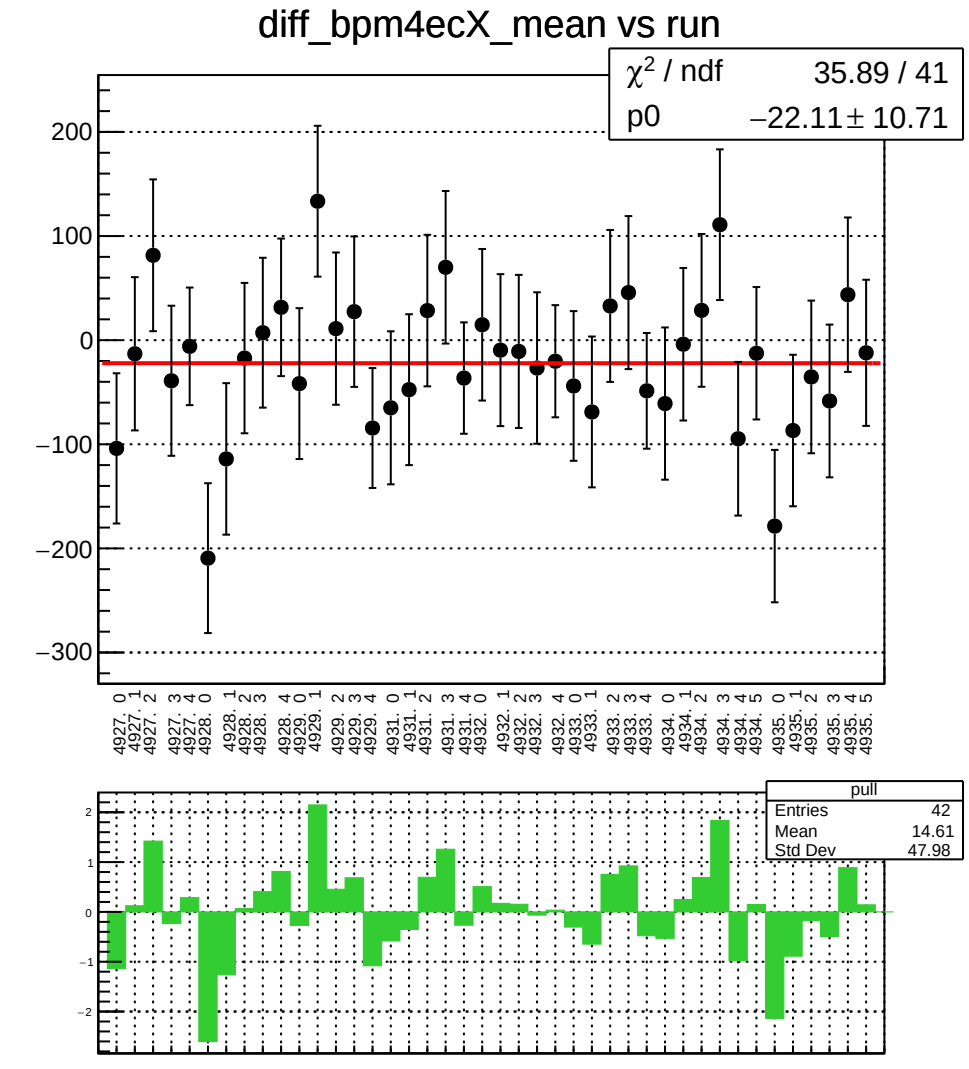

pull1D
Entries 42
Mean −0.003766
Std Dev 0.9848
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

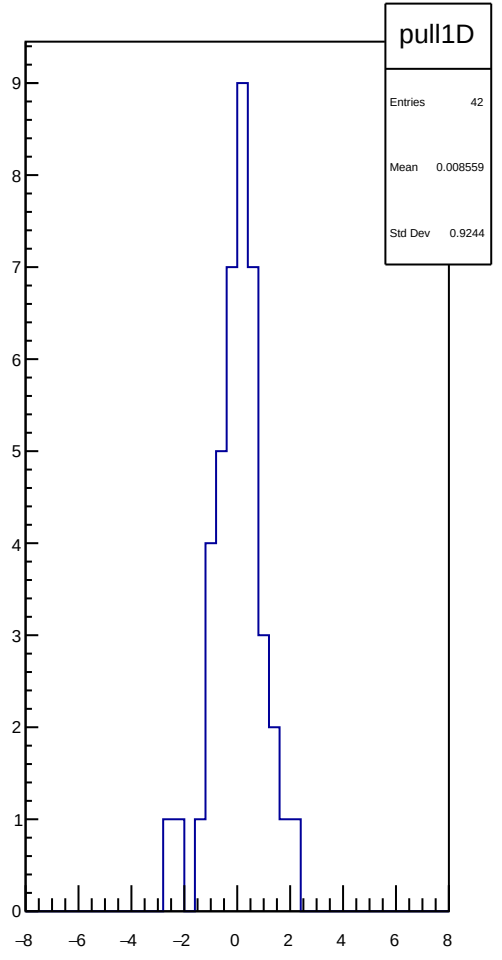

diff_bpm4acX_rms vs run
χ² / ndf 105.1 / 41
p0 1626 ± 1.78
1680
1660
1640
1620
1600
1580
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

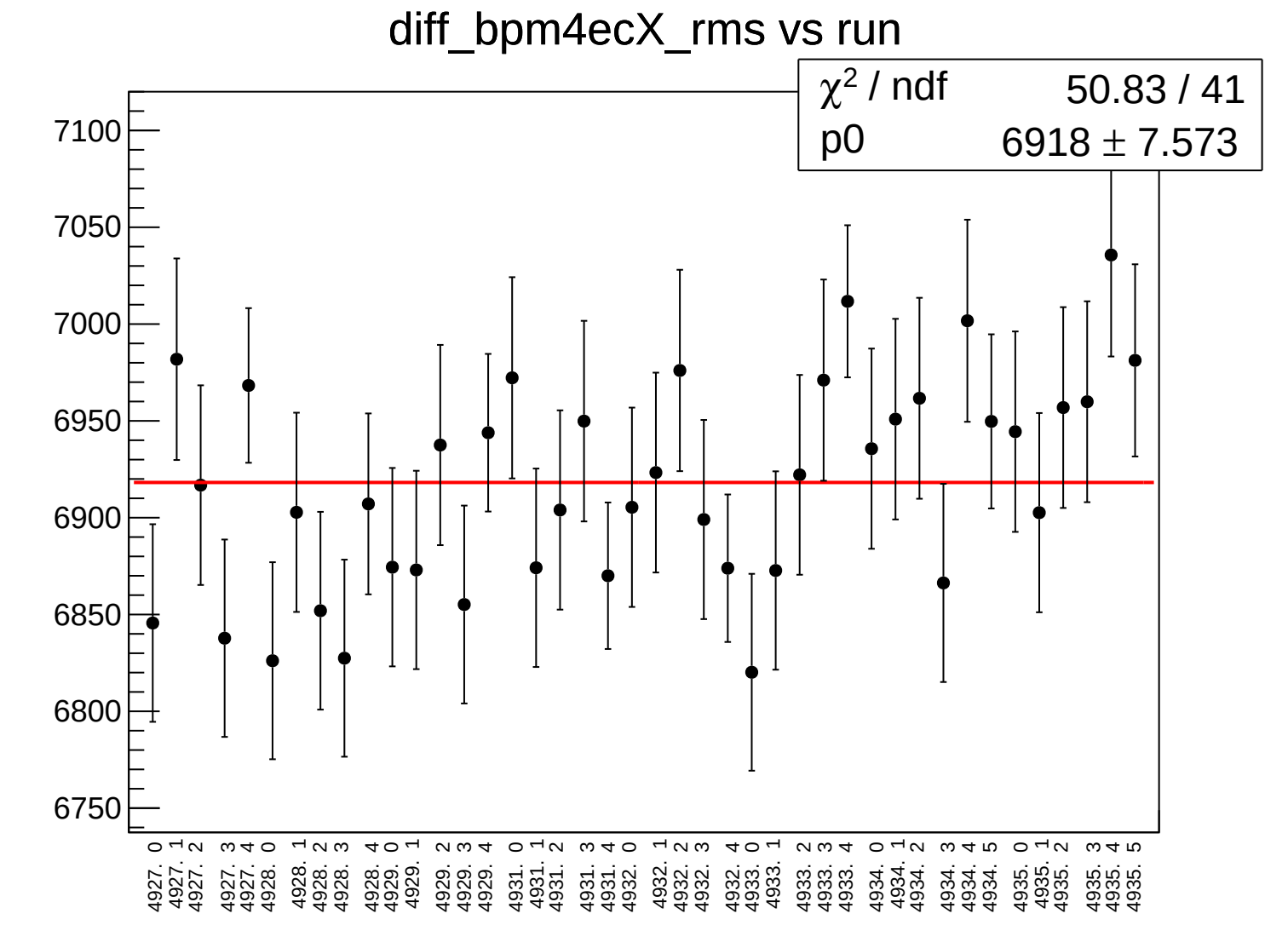

diff_bpm4acY_mean vs run
χ^2 / ndf 31.81 / 41
p0 9.687 ± 4.408
pull
Entries 42
Mean −3867
Std Dev 3885

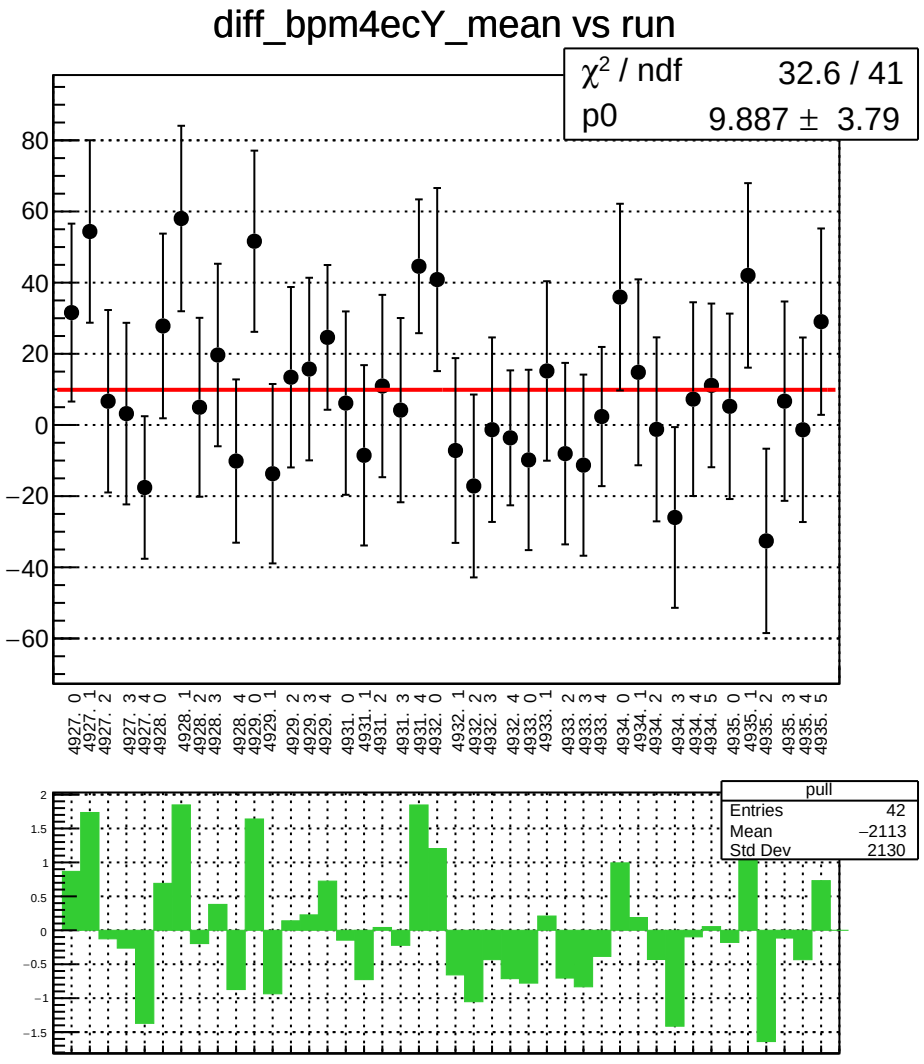

pull1D
Entries 42
Mean 0.0005216
Std Dev 0.8702

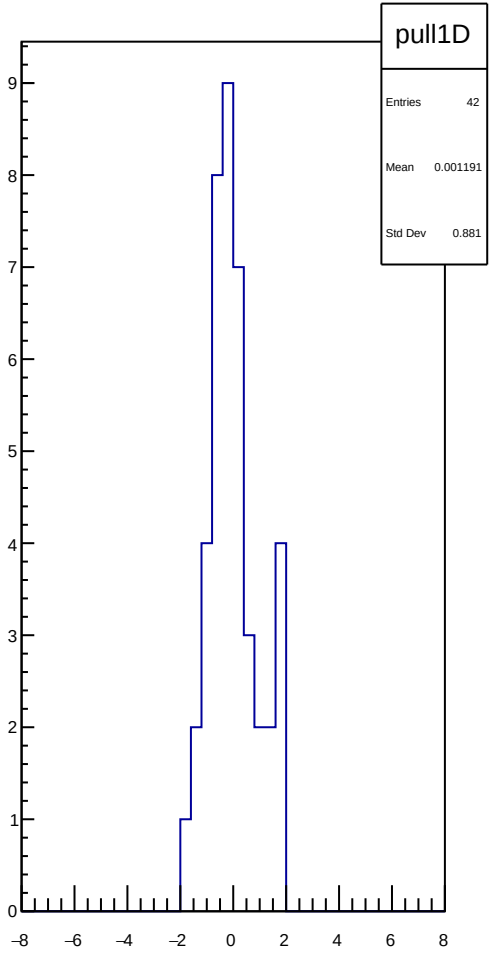

diff_bpm4acY_rms vs run
χ² / ndf 92.78 / 41
p0 2847 ± 3.117
2940
2920
2900
2880
2860
2840
2820
2800
2780
2760
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

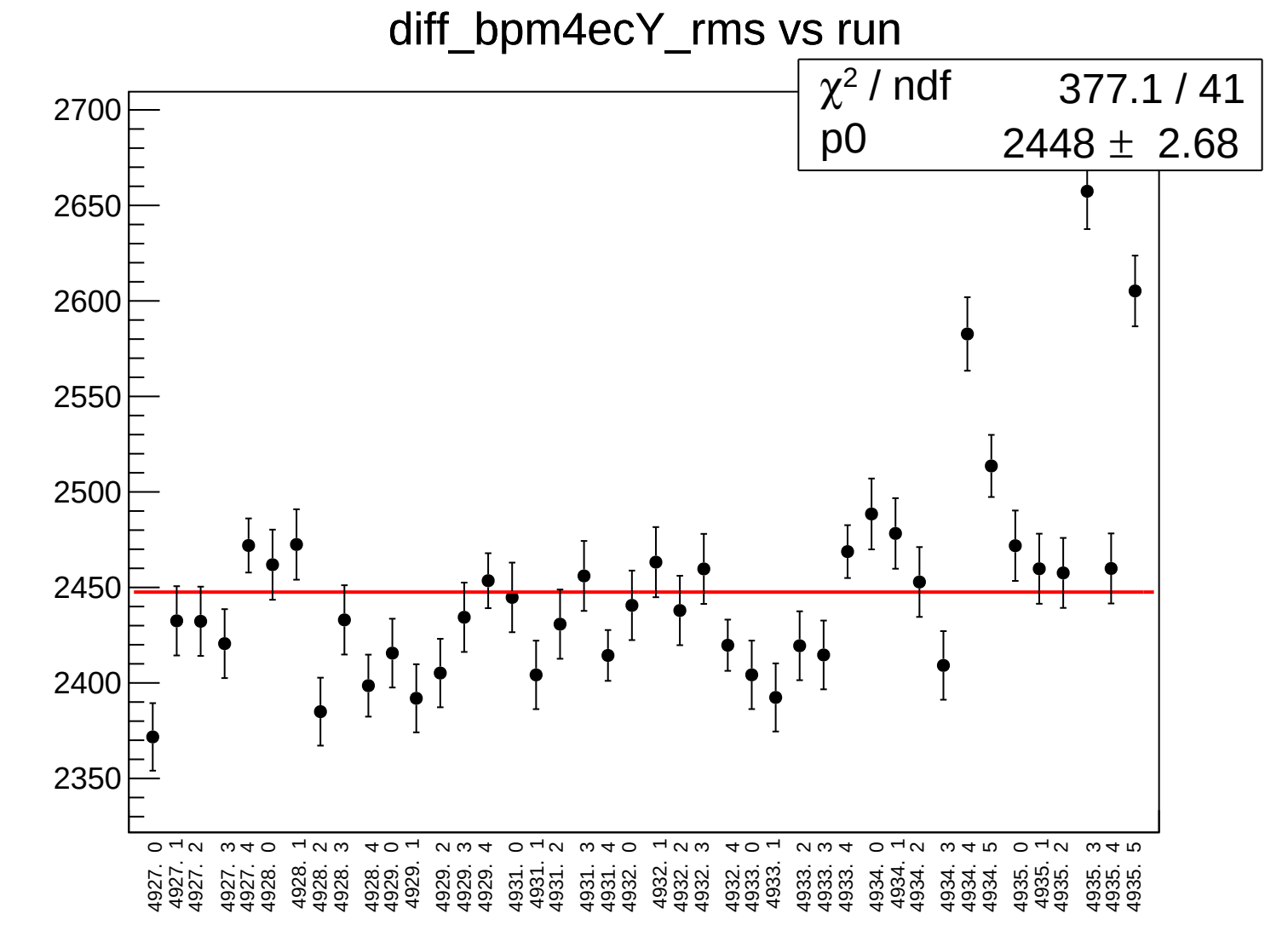

diff_bpm4ecX_mean vs run
χ² / ndf 35.89 / 41
p0 −22.11 ± 10.71
200
100
0
−100
−200
−300
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 14.61
Std Dev 47.98
2
1
0
−1
−2

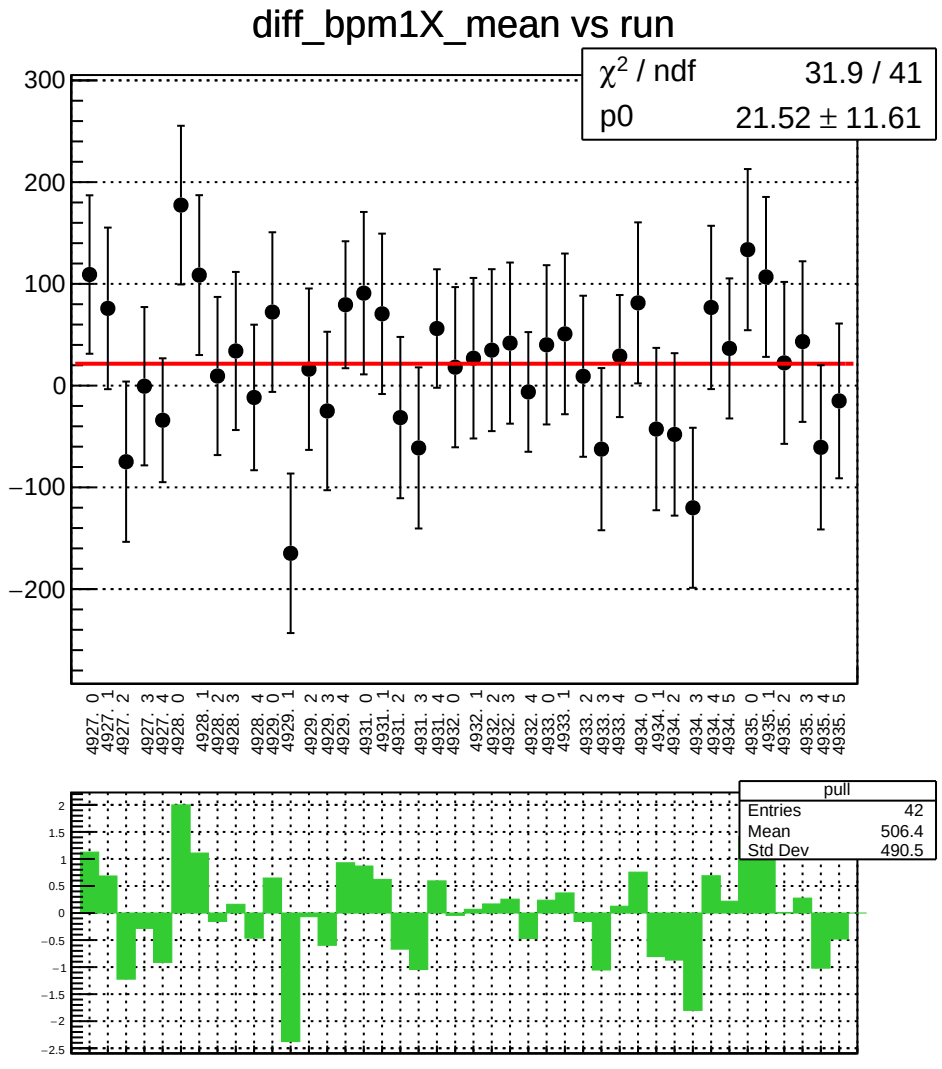

pull1D
Entries 42
Mean 0.008559
Std Dev 0.9244
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

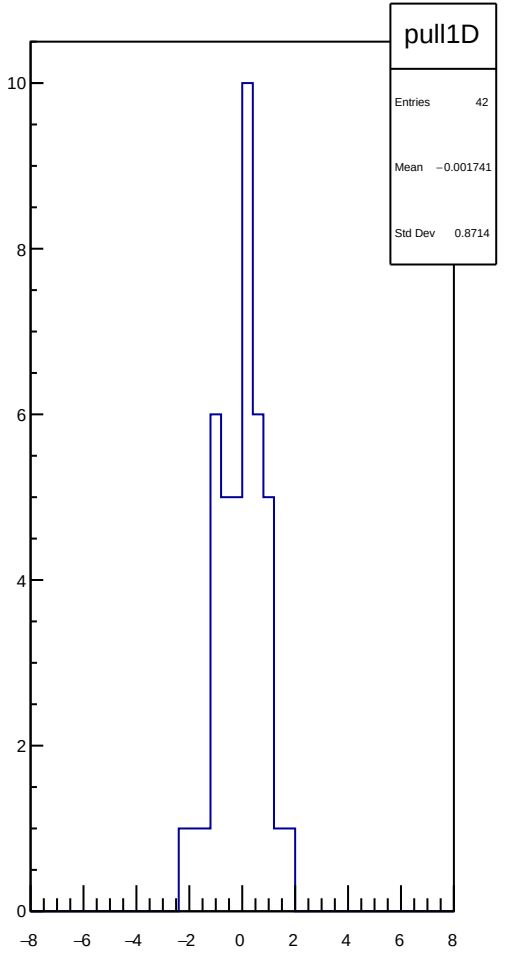

diff_bpm4ecX_rms vs run
χ² / ndf 50.83 / 41
p0 6918 ± 7.573
7100
7050
7000
6950
6900
6850
6800
6750
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

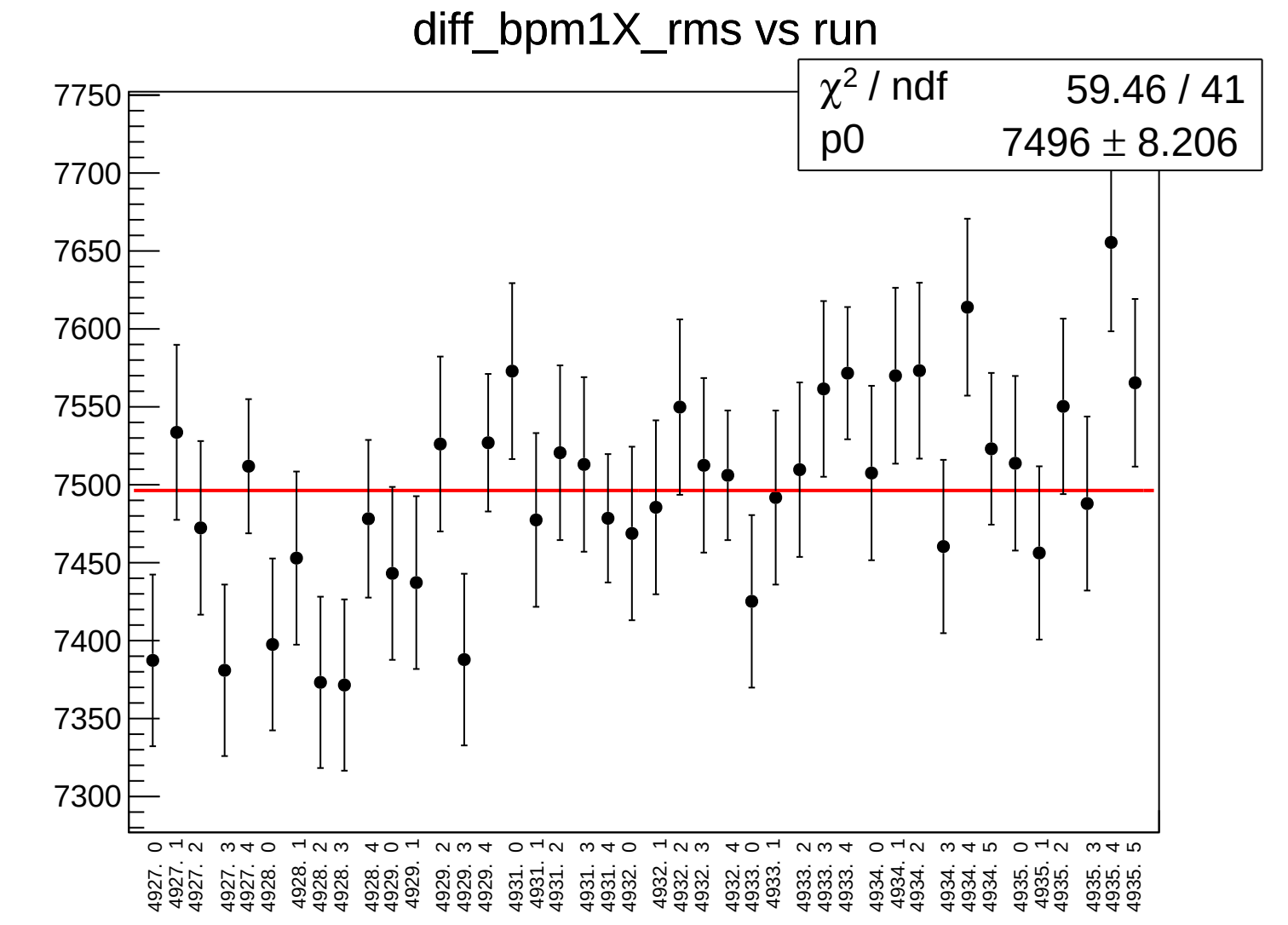

diff_bpm4ecY_mean vs run
χ² / ndf 32.6 / 41
p0 9.887 ± 3.79
pull
Entries 42
Mean −2113
Std Dev 2130

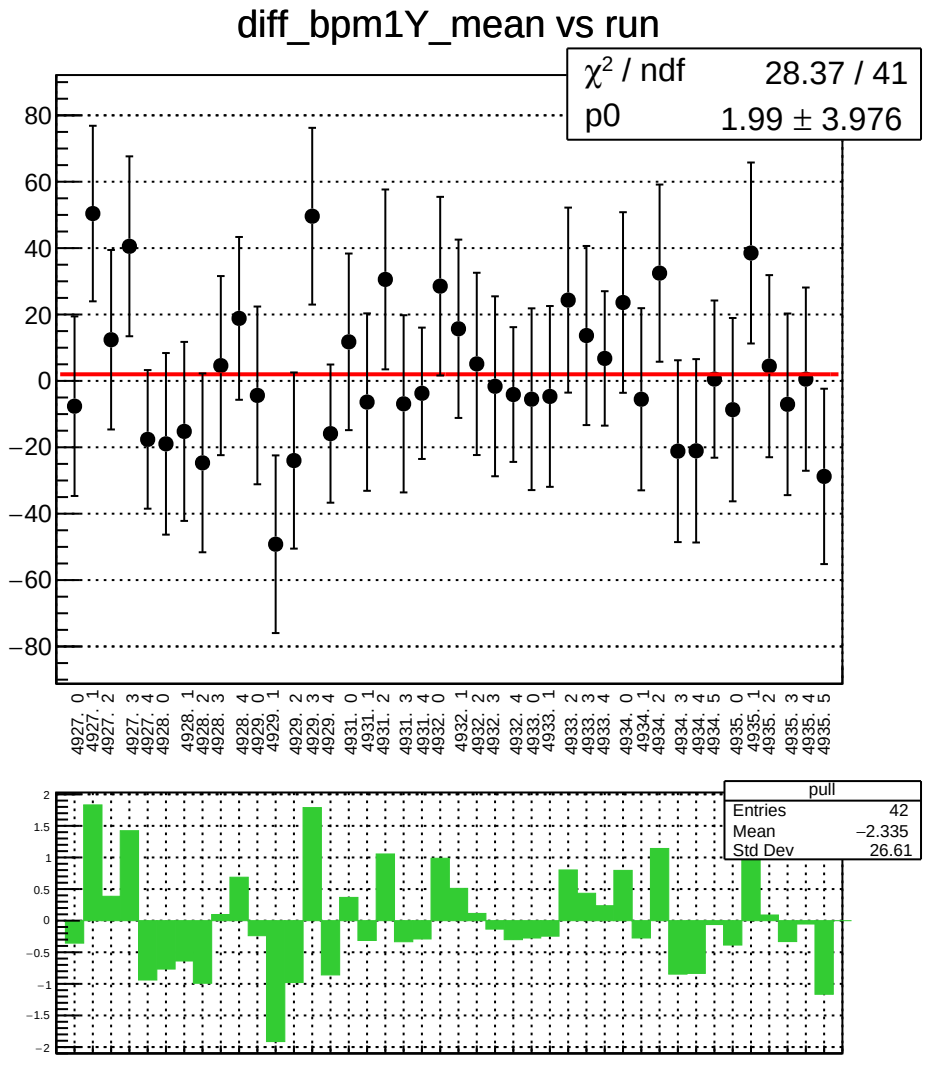

pull1D
Entries 42
Mean 0.001191
Std Dev 0.881

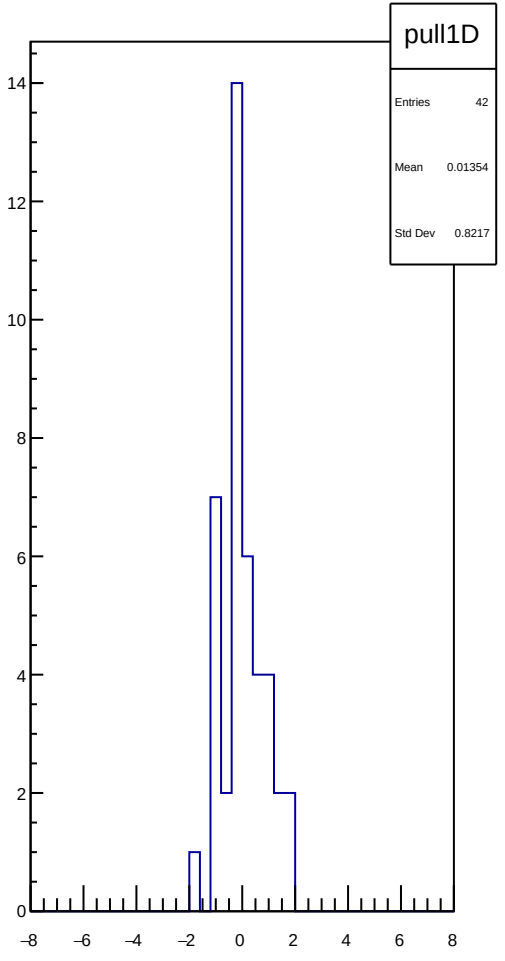

diff_bpm4ecY_rms vs run
χ² / ndf 377.1 / 41
p0 2448 ± 2.68
2700
2650
2600
2550
2500
2450
2400
2350
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

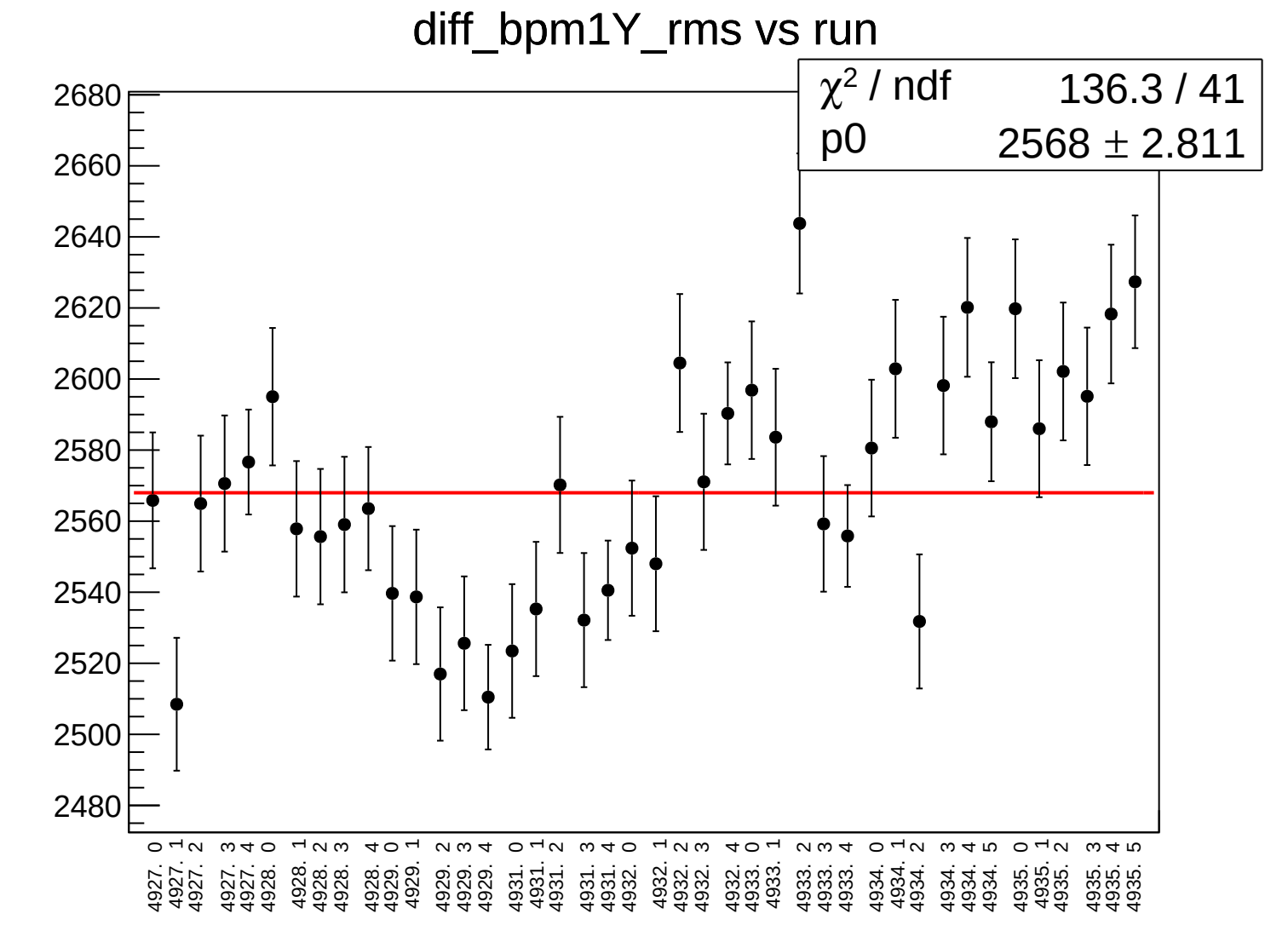

diff_bpm1X_mean vs run
χ² / ndf 31.9 / 41
p0 21.52 ± 11.61
300
200
100
0
−100
−200
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 506.4
Std Dev 490.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

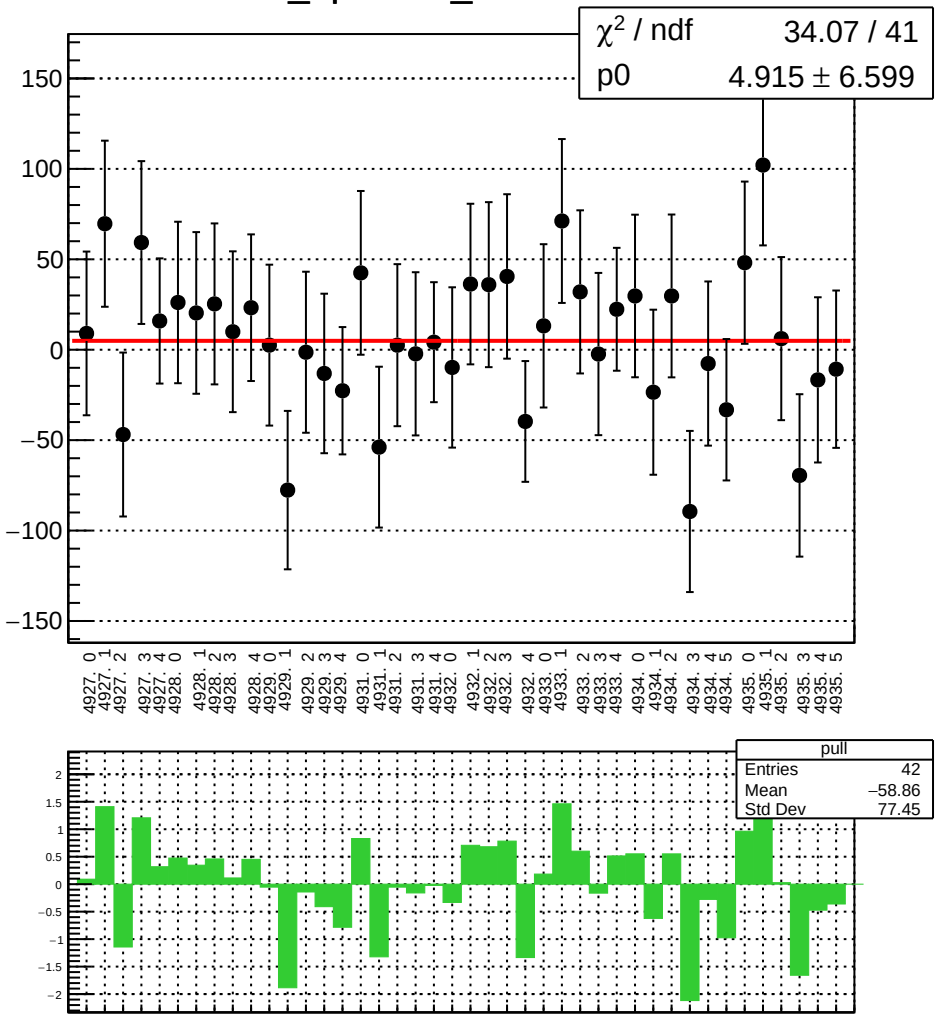

pull1D
Entries 42
Mean −0.001741
Std Dev 0.8714
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

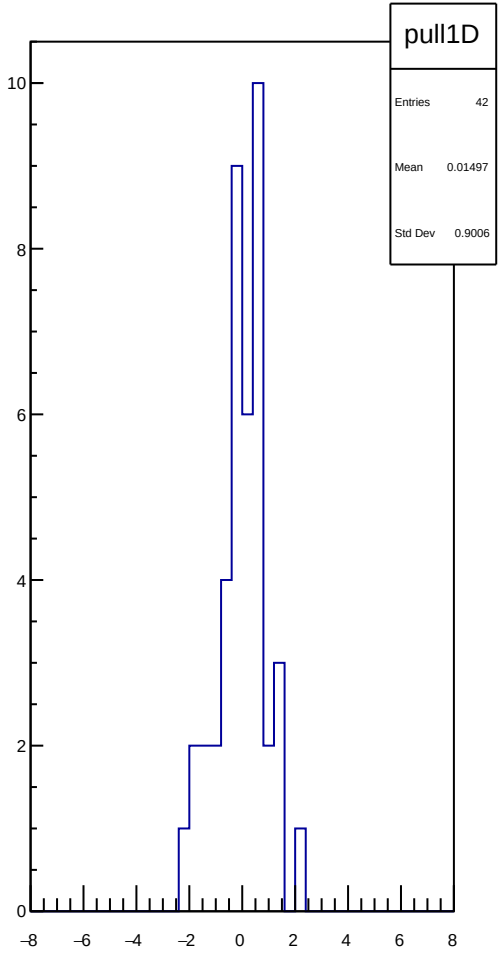

diff_bpm1X_rms vs run
χ² / ndf 59.46 / 41
p0 7496 ± 8.206
7750
7700
7650
7600
7550
7500
7450
7400
7350
7300
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

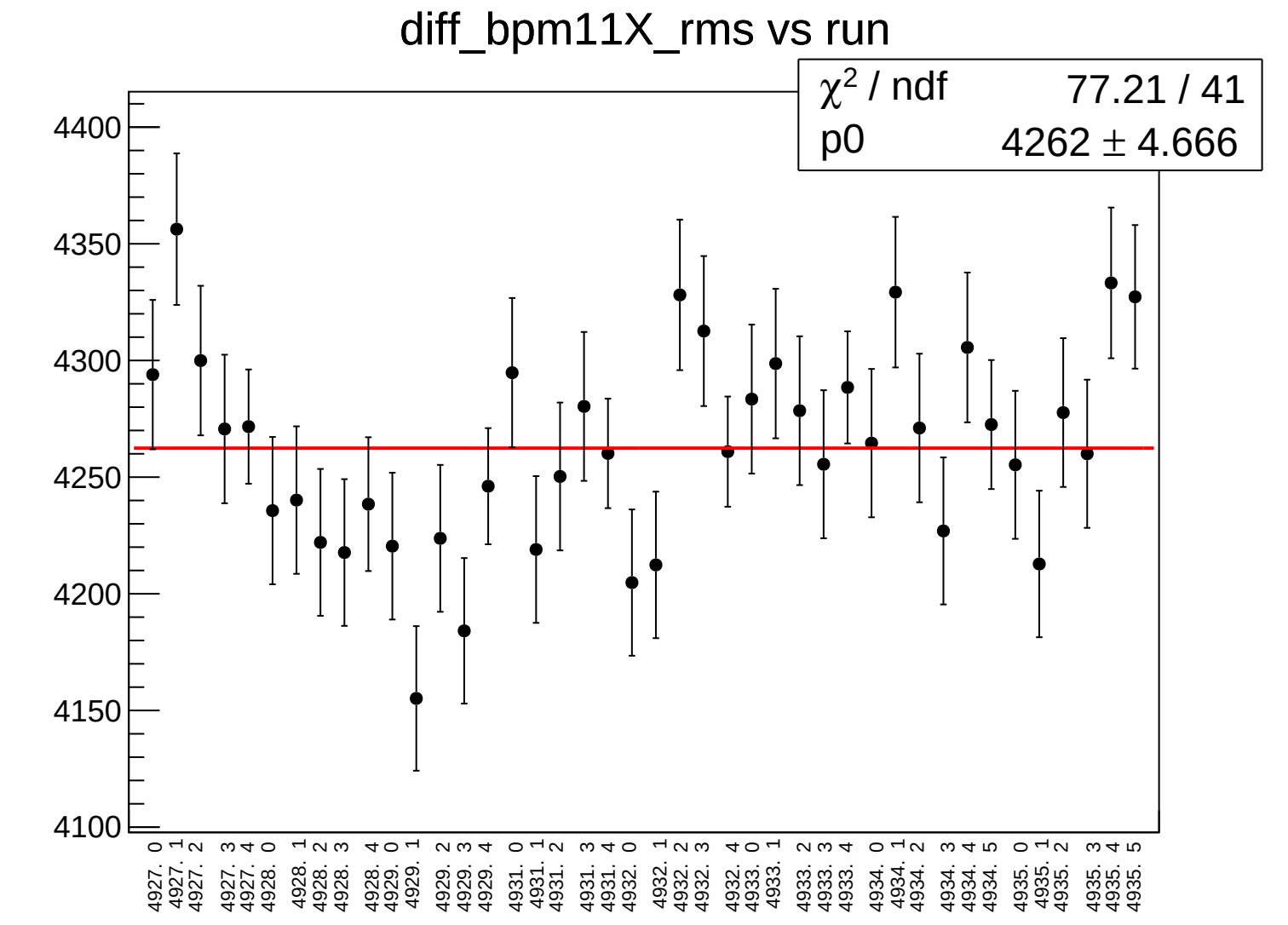

diff_bpm1Y_mean vs run
χ² / ndf 28.37 / 41
p0 1.99 ± 3.976
pull
Entries 42
Mean −2.335
Std Dev 26.61

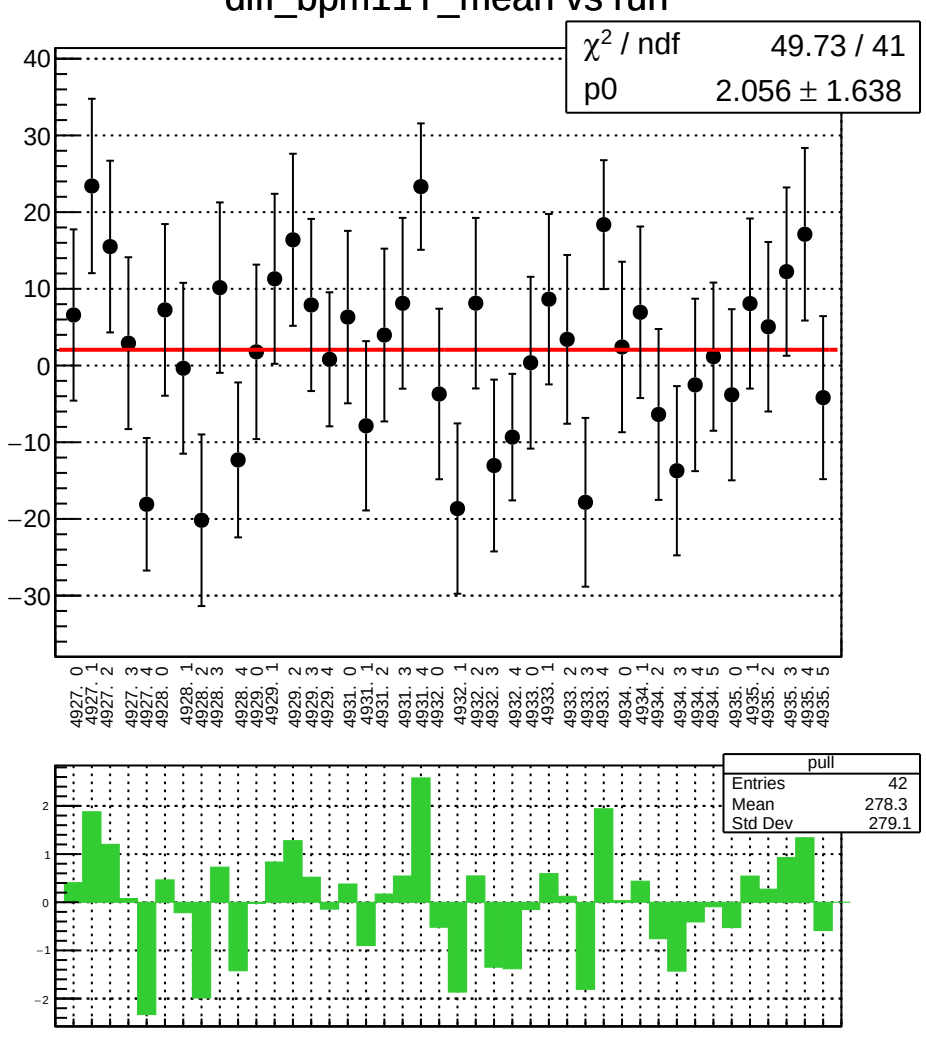

pull1D
Entries 42
Mean 0.01354
Std Dev 0.8217

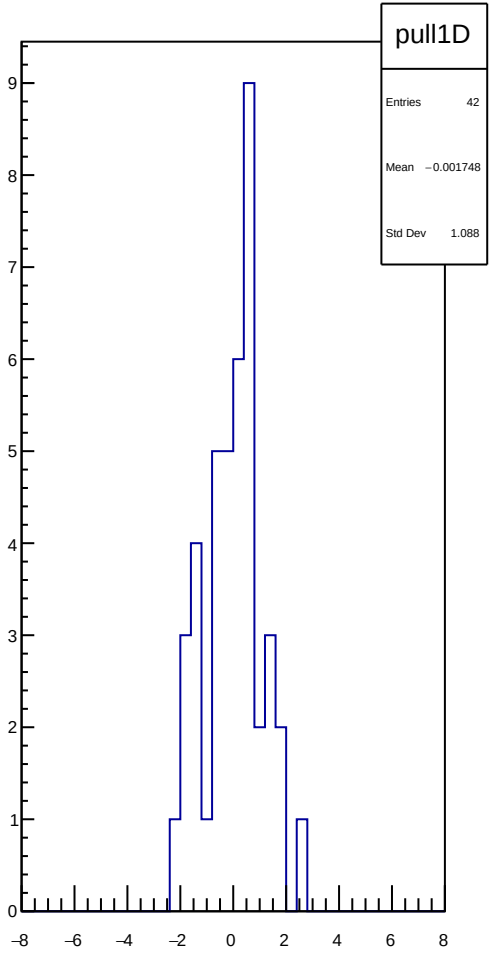

diff_bpm1Y_rms vs run
χ² / ndf 136.3 / 41
p0 2568 ± 2.811
2680
2660
2640
2620
2600
2580
2560
2540
2520
2500
2480
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

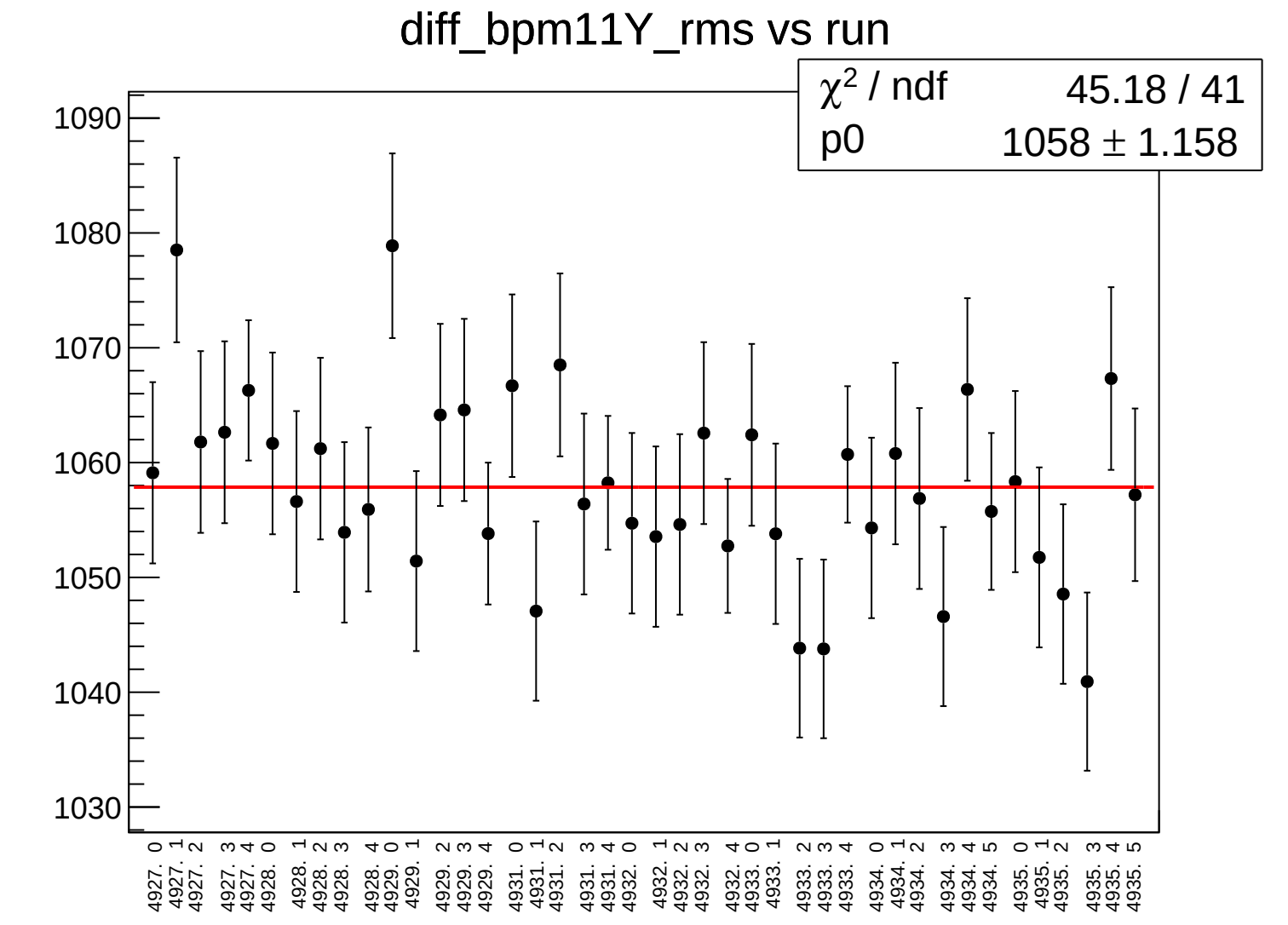

diff_bpm11X_mean vs run
χ² / ndf 34.07 / 41
p0 4.915 ± 6.599
150
100
50
0
−50
−100
−150
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −58.86
Std Dev 77.45
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

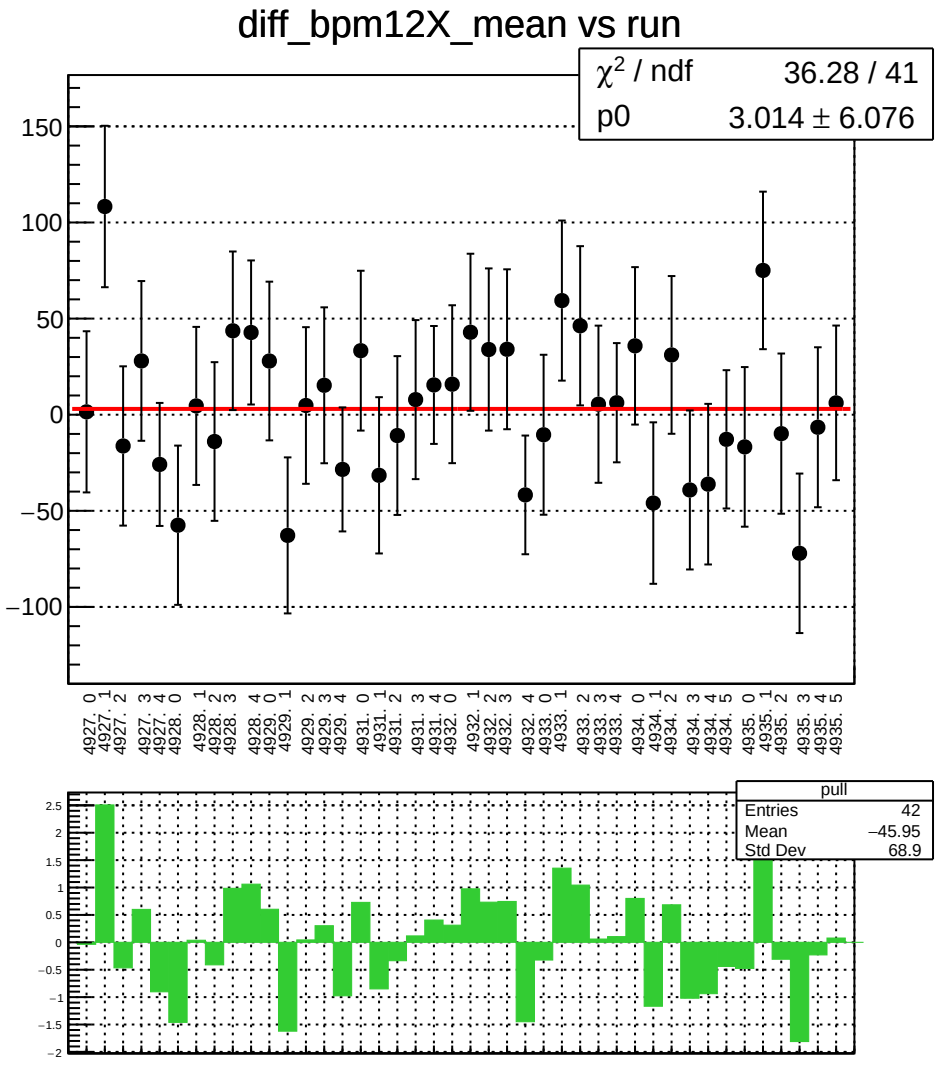

pull1D
Entries 42
Mean 0.01497
Std Dev 0.9006
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

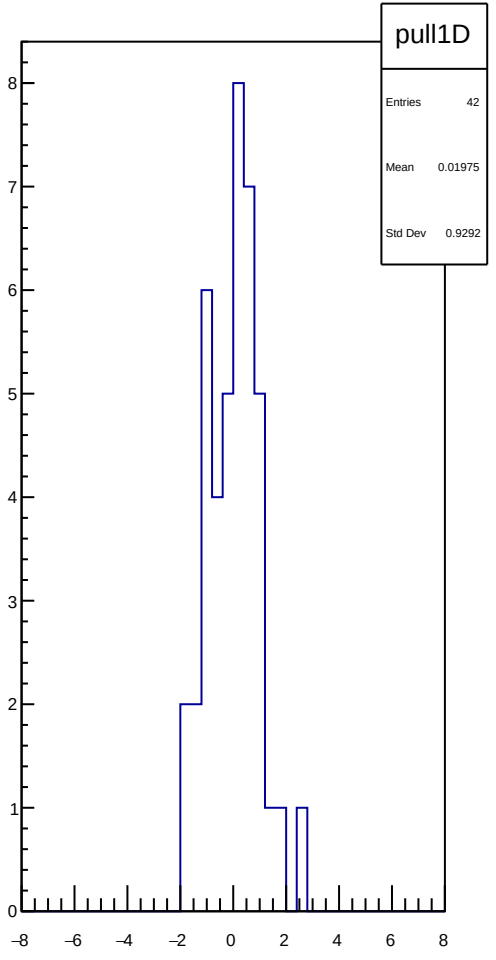

diff_bpm11X_rms vs run
χ² / ndf 77.21 / 41
p0 4262 ± 4.666
4400
4350
4300
4250
4200
4150
4100
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

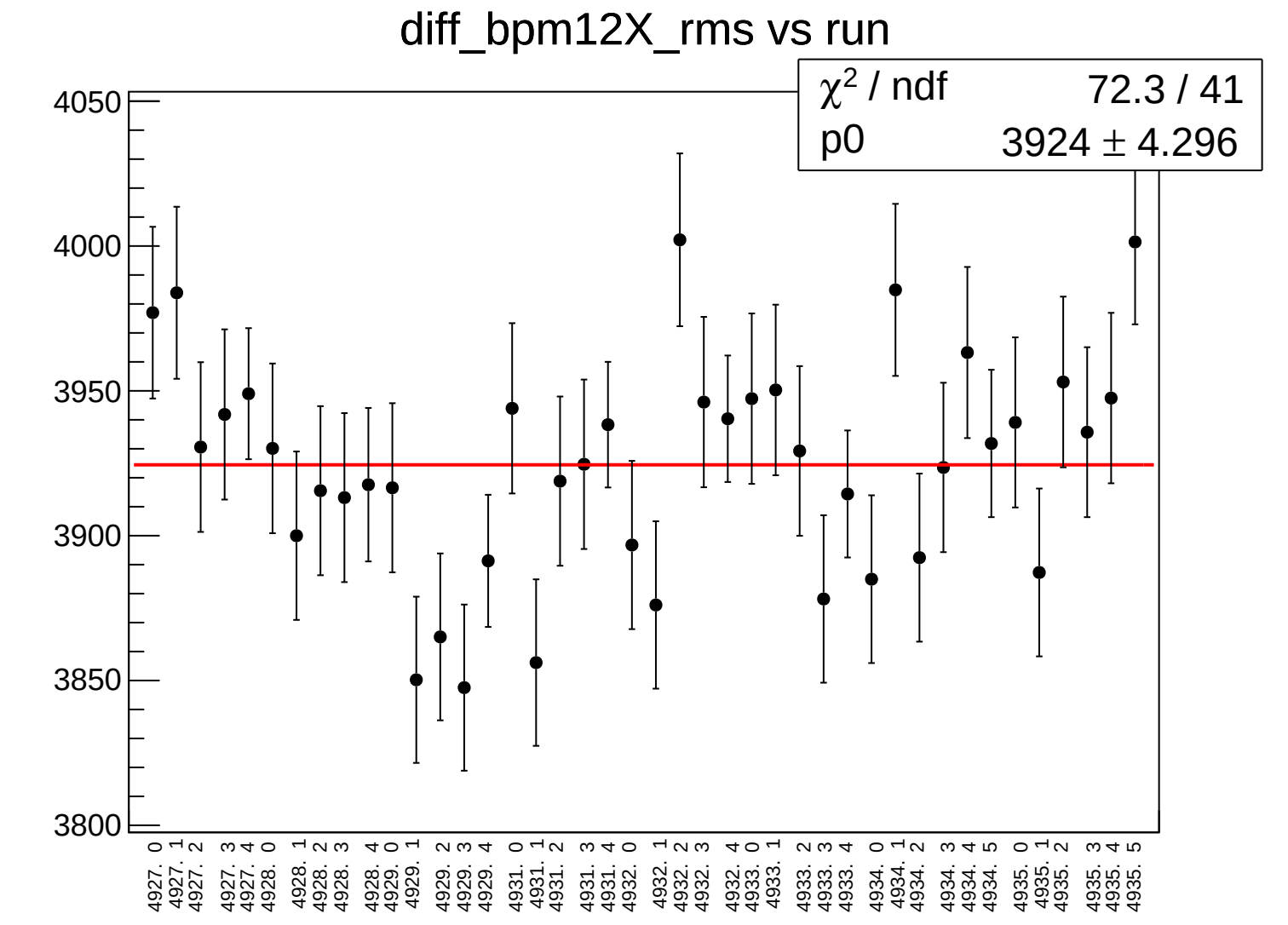

diff_bpm11Y_mean vs run
χ² / ndf 49.73 / 41
p0 2.056 ± 1.638
pull
Entries 42
Mean 278.3
Std Dev 279.1

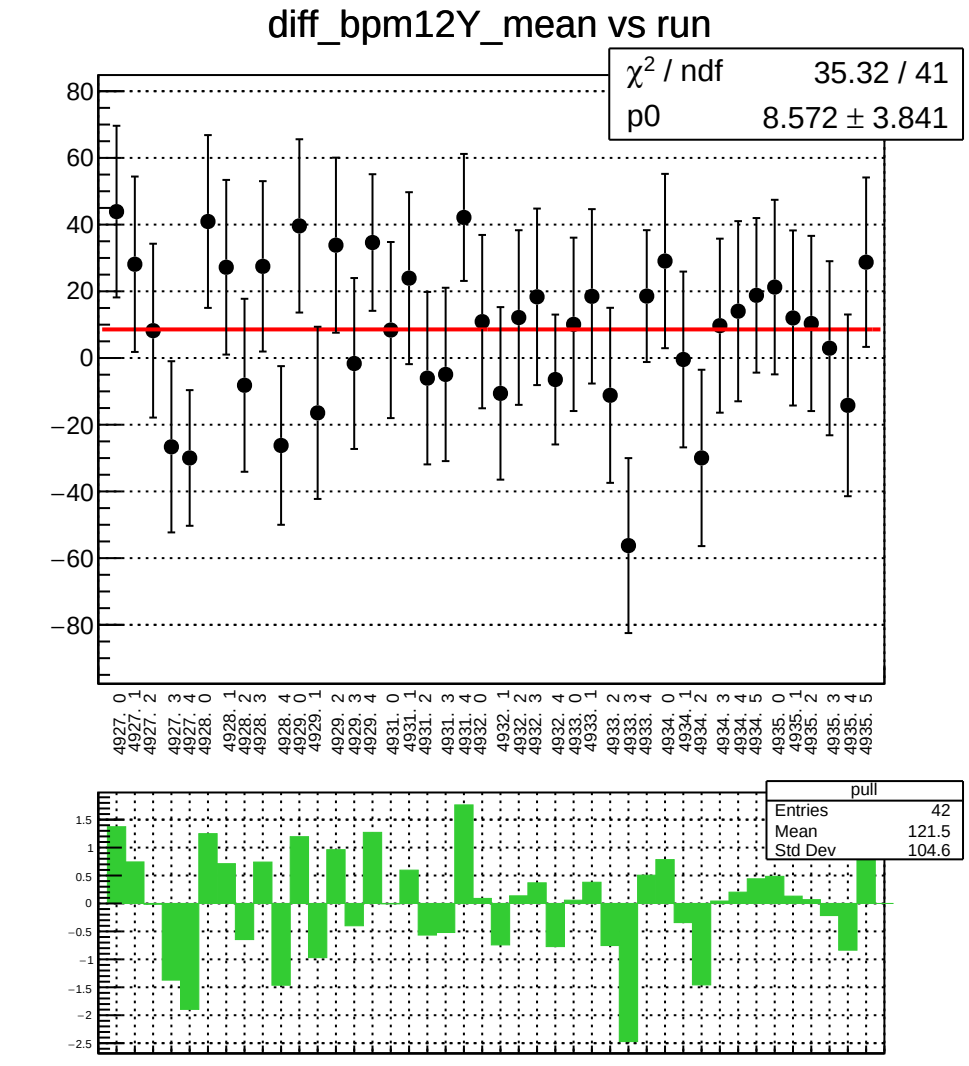

pull1D
Entries 42
Mean −0.001748
Std Dev 1.088

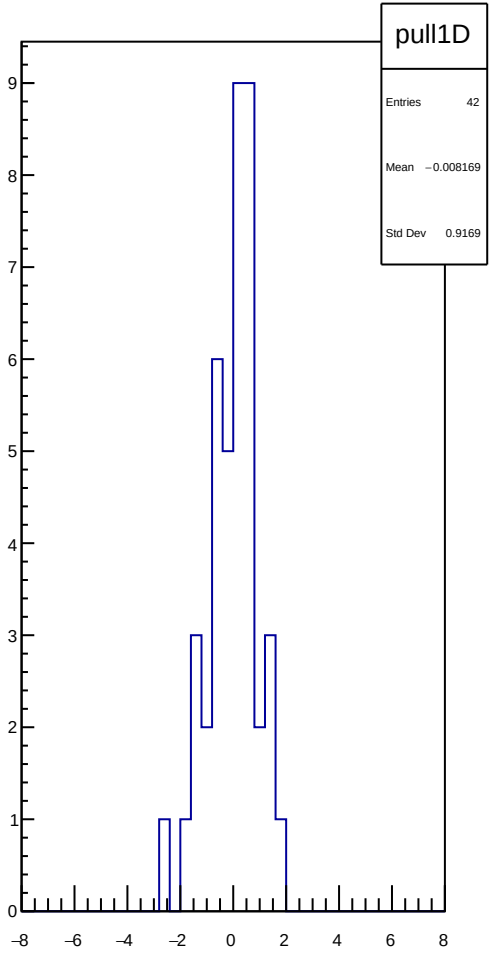

diff_bpm11Y_rms vs run
χ² / ndf 45.18 / 41
p0 1058 ± 1.158
1090
1080
1070
1060
1050
1040
1030
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

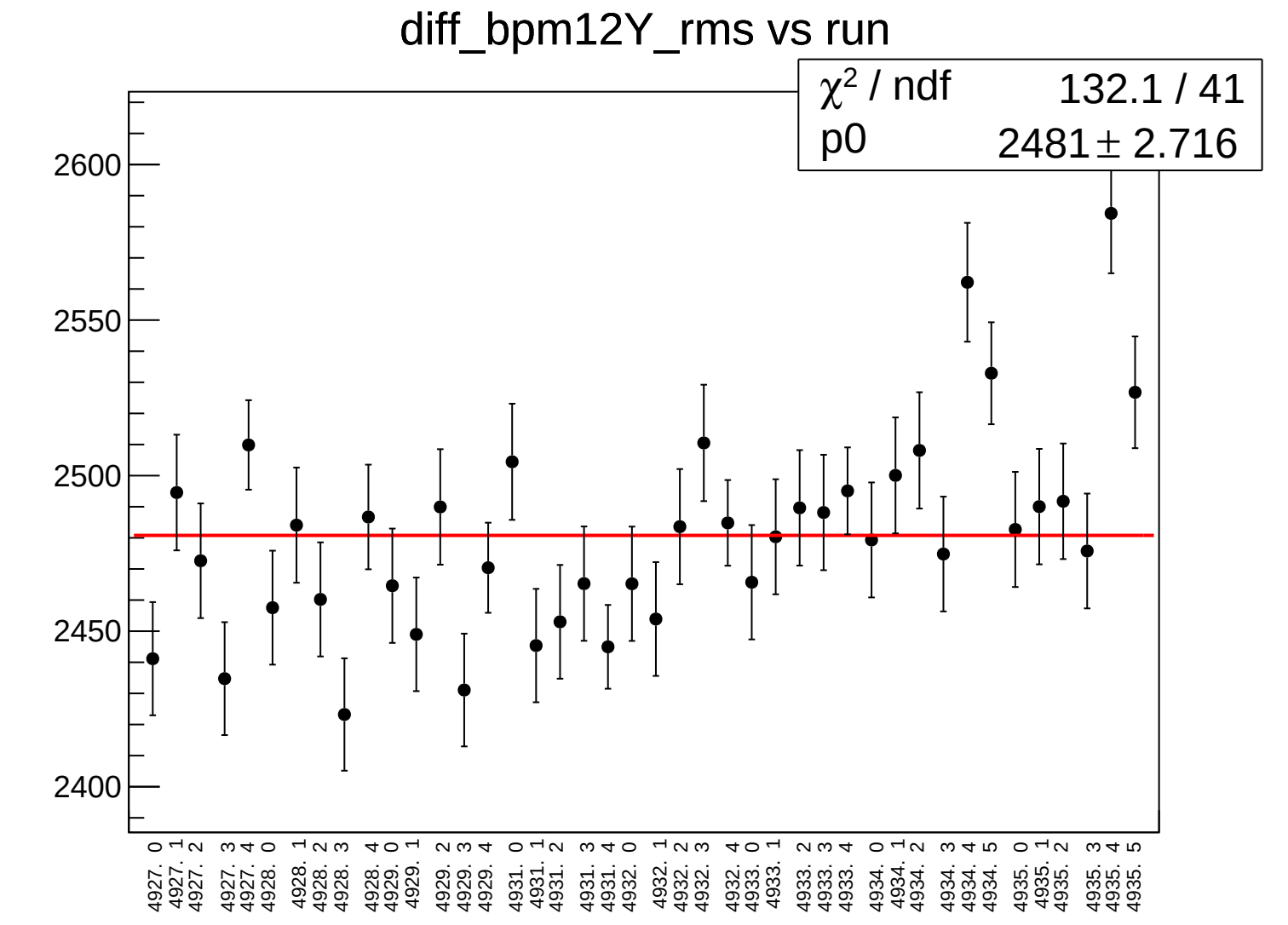

diff_bpm12X_mean vs run
χ^2 / ndf 36.28 / 41
p0 3.014 ± 6.076
150
100
50
0
−50
−100
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −45.95
Std Dev 68.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

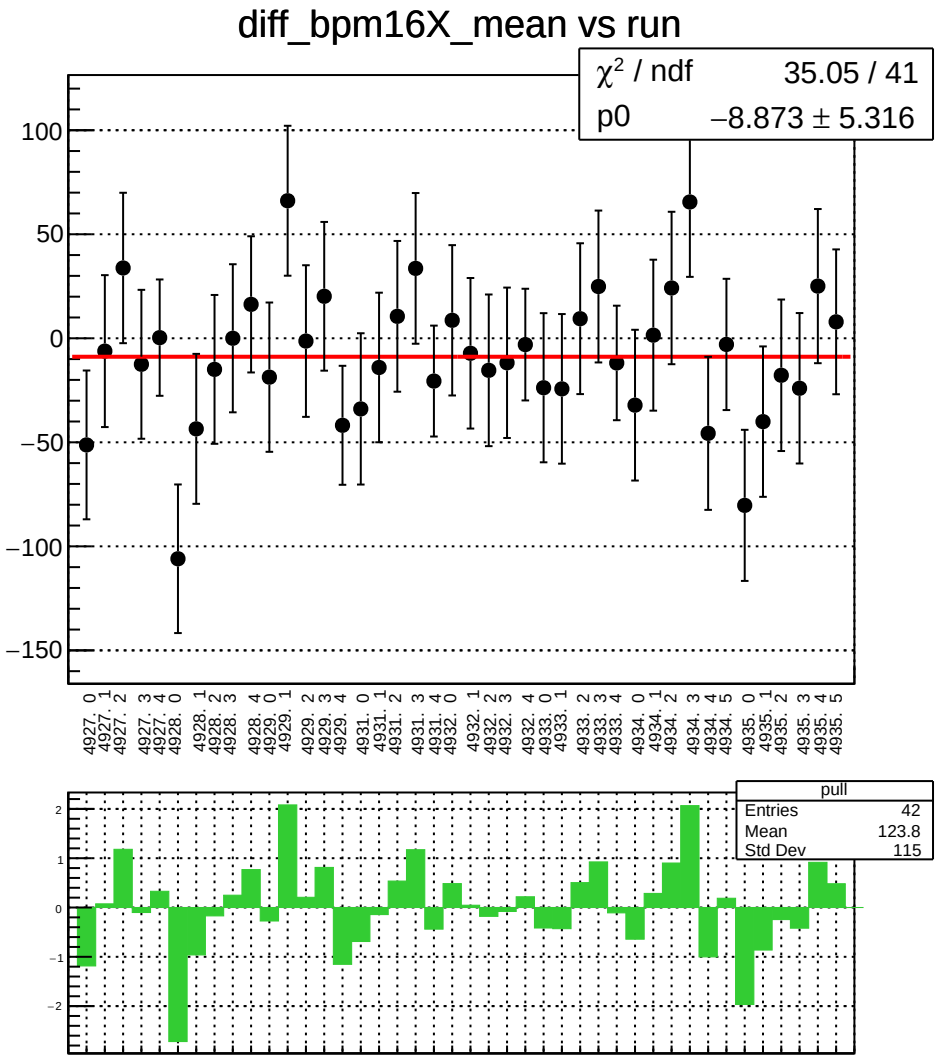

pull1D
Entries 42
Mean 0.01975
Std Dev 0.9292
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

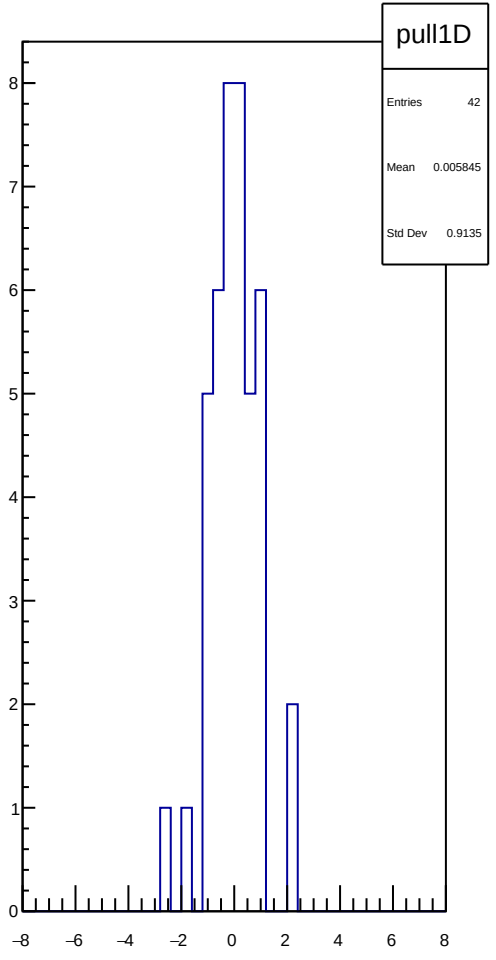

diff_bpm12X_rms vs run
χ² / ndf 72.3 / 41
p0 3924 ± 4.296
4050
4000
3950
3900
3850
3800
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

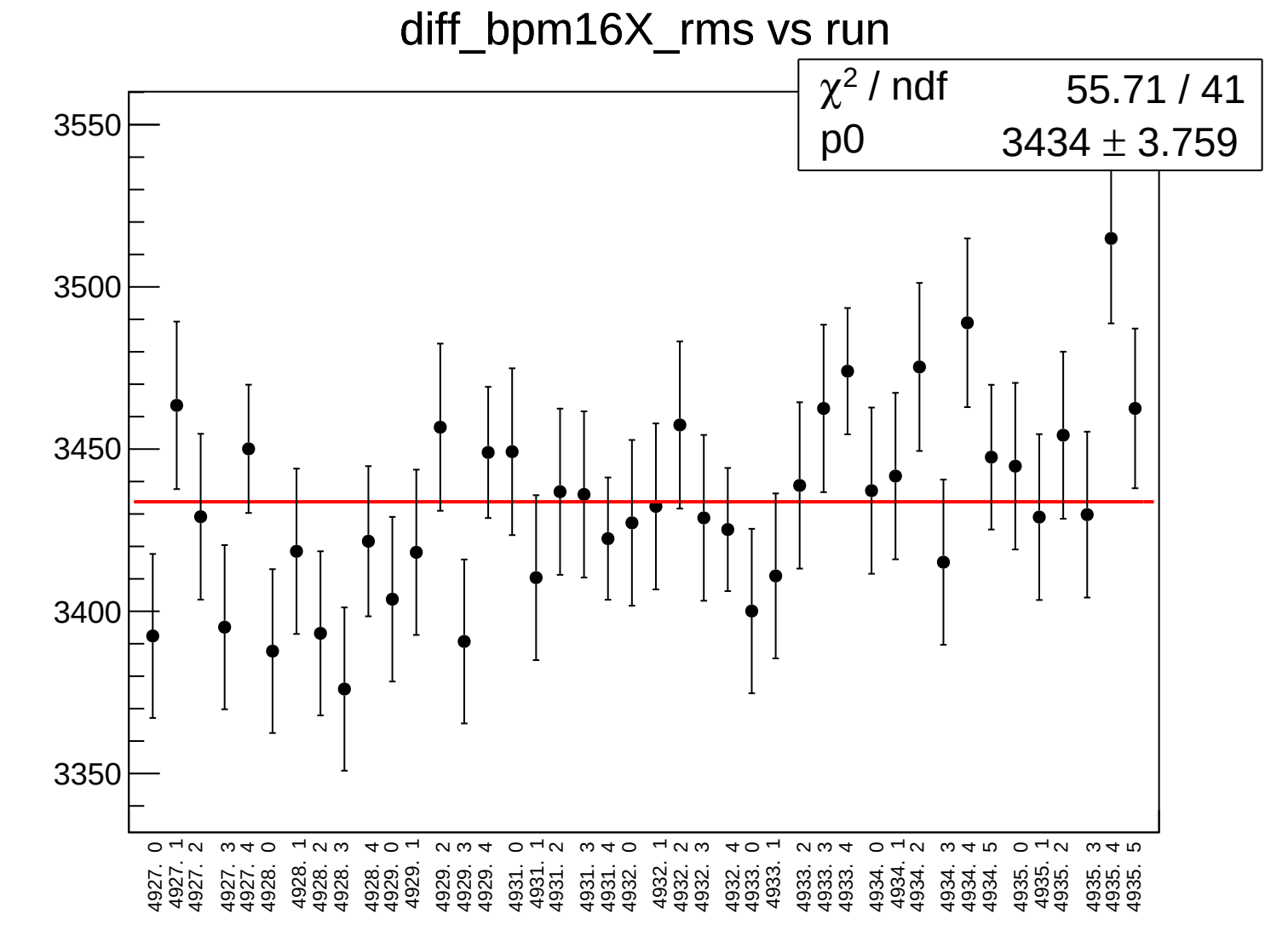

diff_bpm12Y_mean vs run
χ² / ndf 35.32 / 41
p0 8.572 ± 3.841
pull
Entries 42
Mean 121.5
Std Dev 104.6

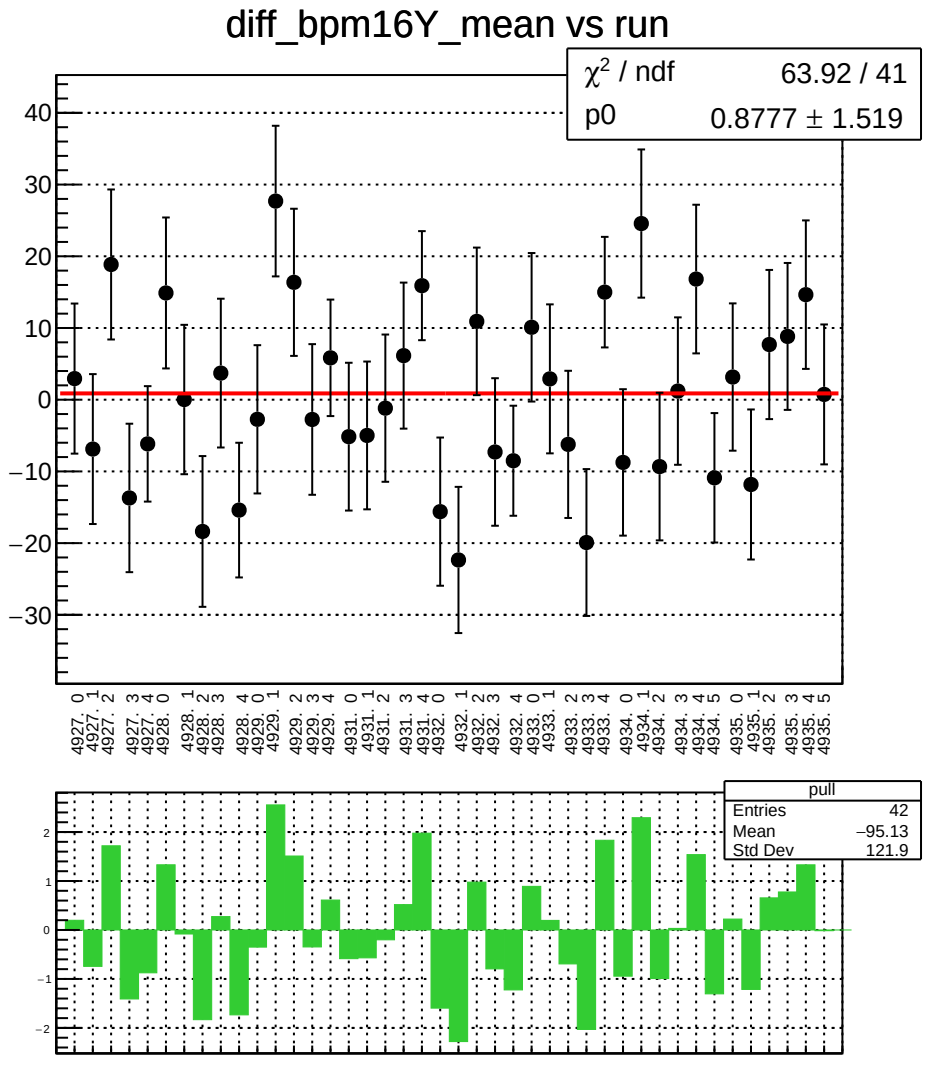

pull1D
Entries 42
Mean −0.008169
Std Dev 0.9169

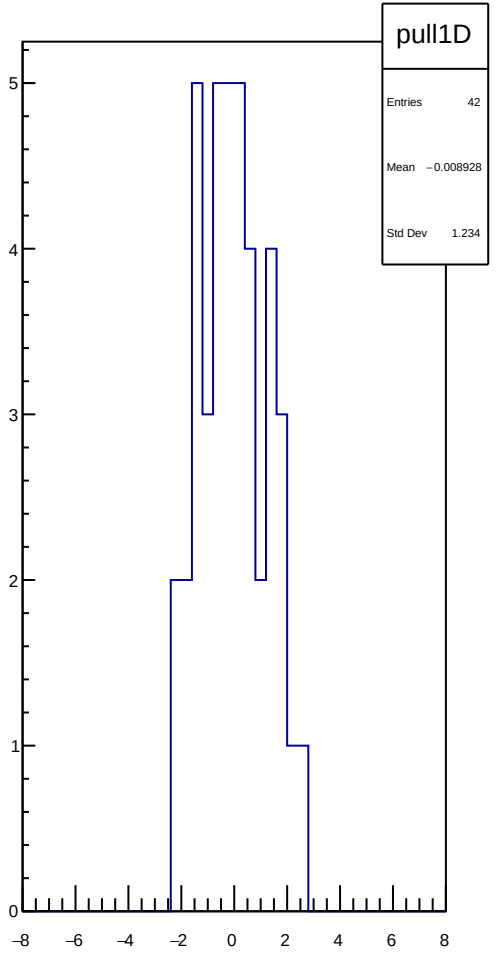

diff_bpm12Y_rms vs run
χ² / ndf 132.1 / 41
p0 2481 ± 2.716
2600
2550
2500
2450
2400
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

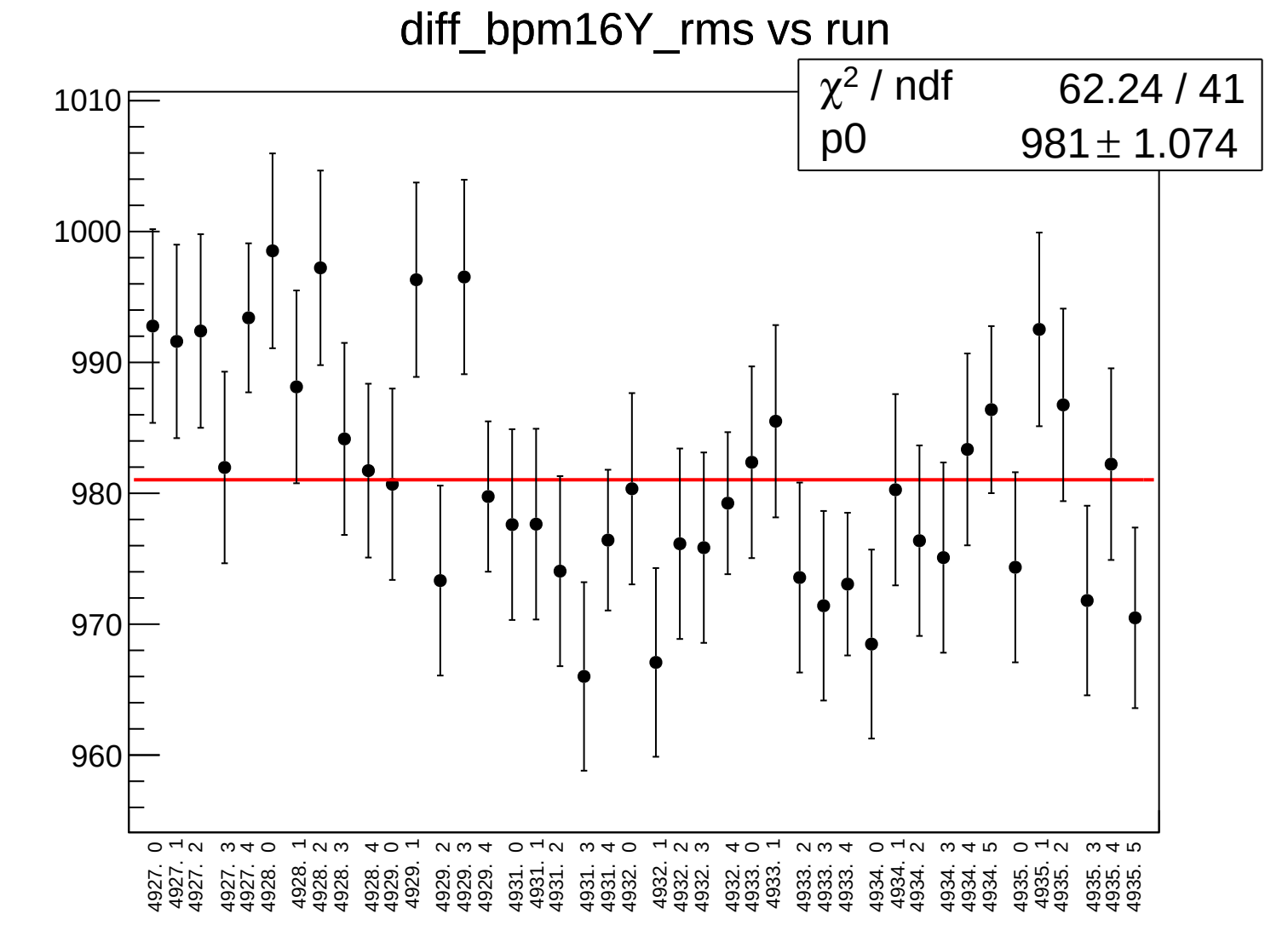

diff_bpm16X_mean vs run
χ² / ndf 35.05 / 41
p0 −8.873 ± 5.316
100
50
0
−50
−100
−150
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 123.8
Std Dev 115
2
1
0
−1
−2

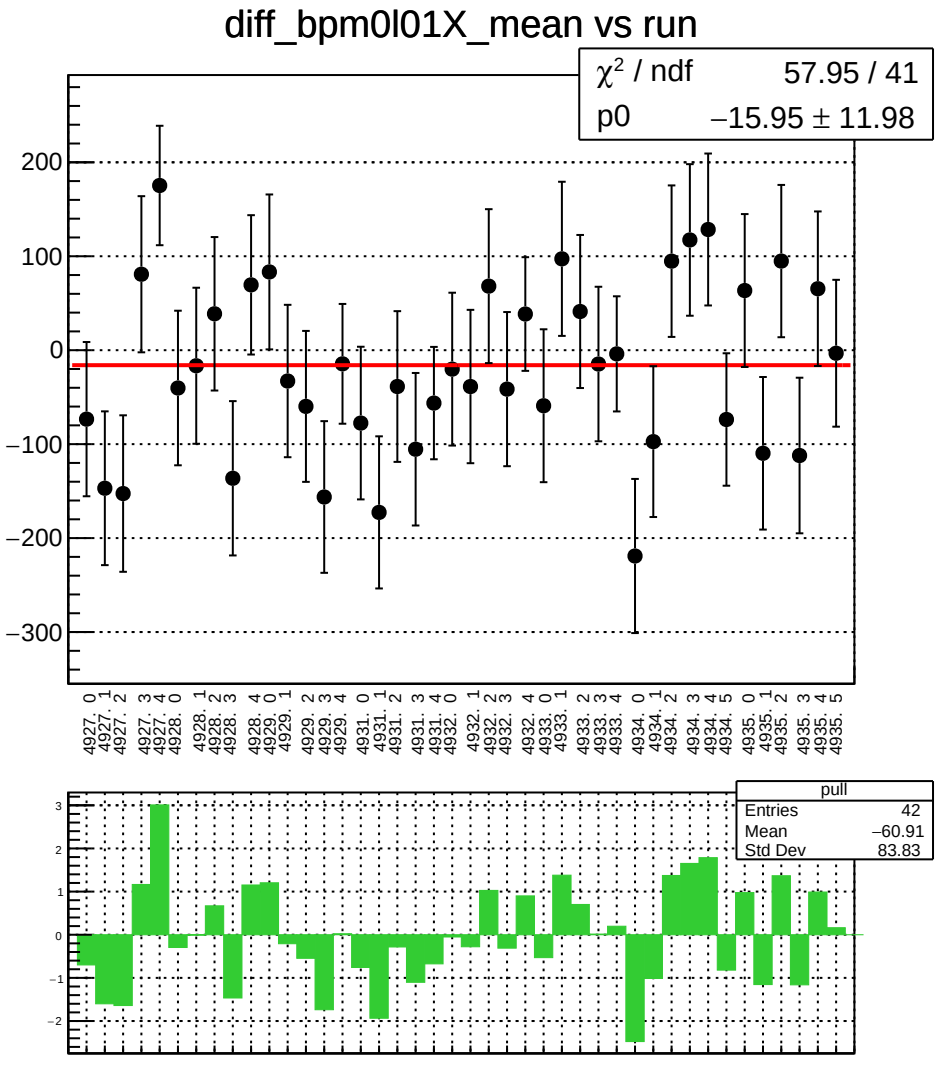

pull1D
Entries 42
Mean 0.005845
Std Dev 0.9135
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

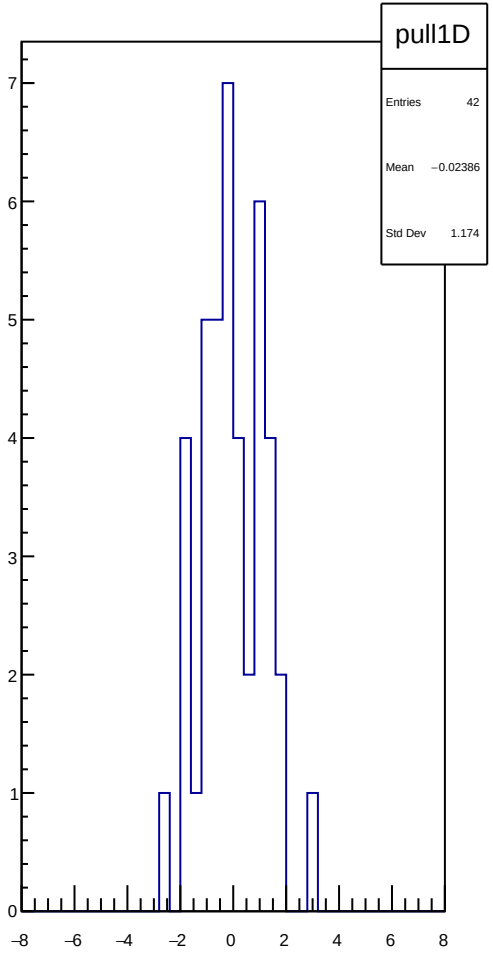

diff_bpm16X_rms vs run
χ² / ndf 55.71 / 41
p0 3434 ± 3.759
3550
3500
3450
3400
3350
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

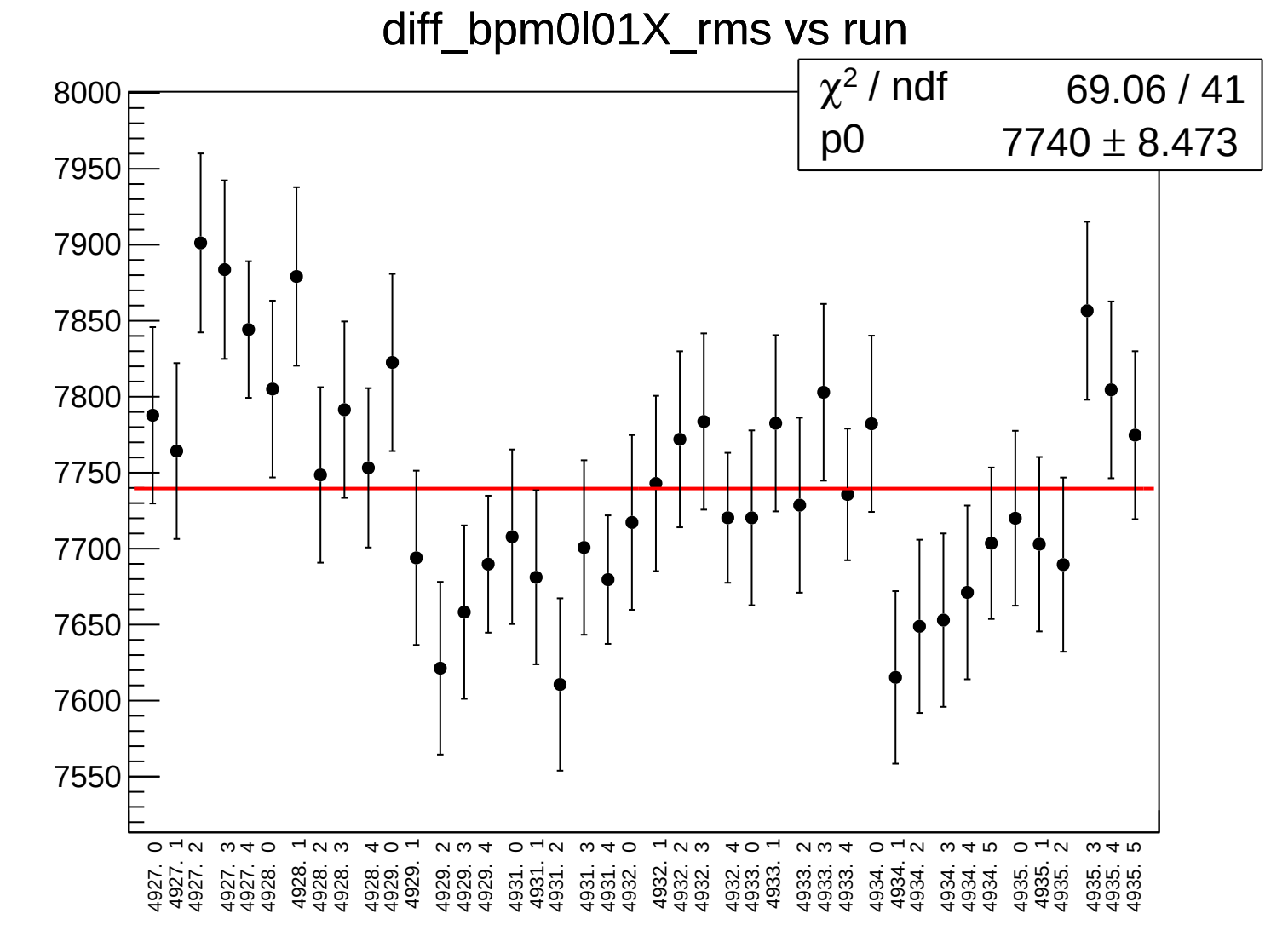

diff_bpm16Y_mean vs run
χ² / ndf 63.92 / 41
p0 0.8777 ± 1.519
40
30
20
10
0
−10
−20
−30
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −95.13
Std Dev 121.9
2
1
0
−1
−2

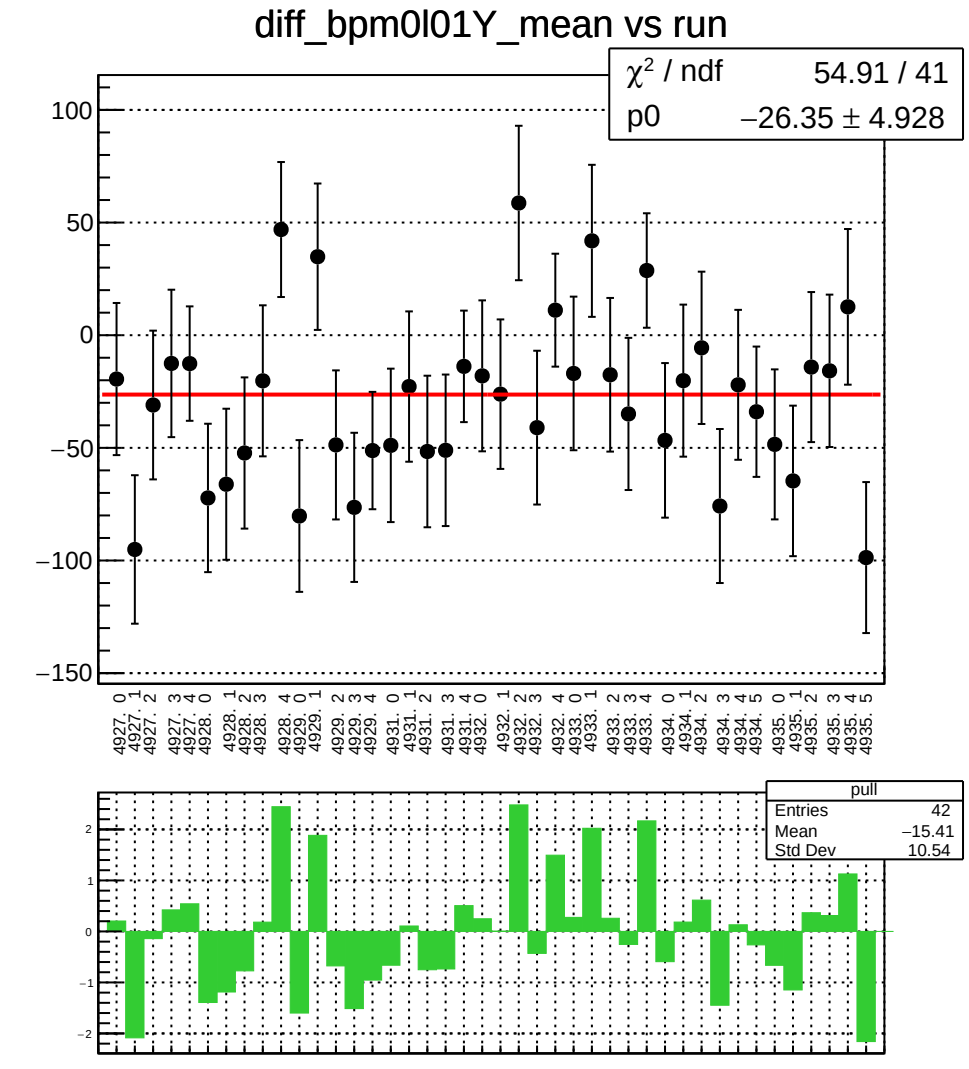

pull1D
Entries 42
Mean −0.008928
Std Dev 1.234
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

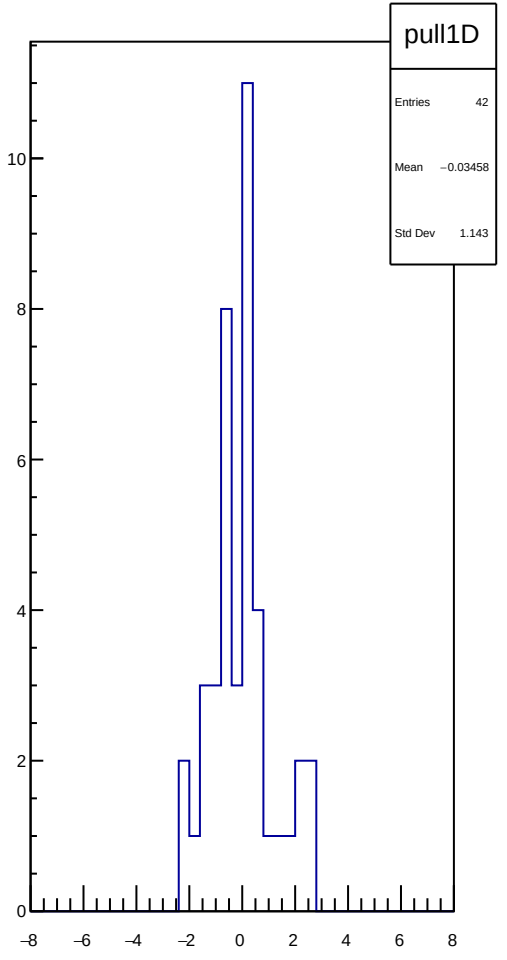

diff_bpm16Y_rms vs run
χ² / ndf 62.24 / 41
p0 981 ± 1.074
1010
1000
990
980
970
960
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

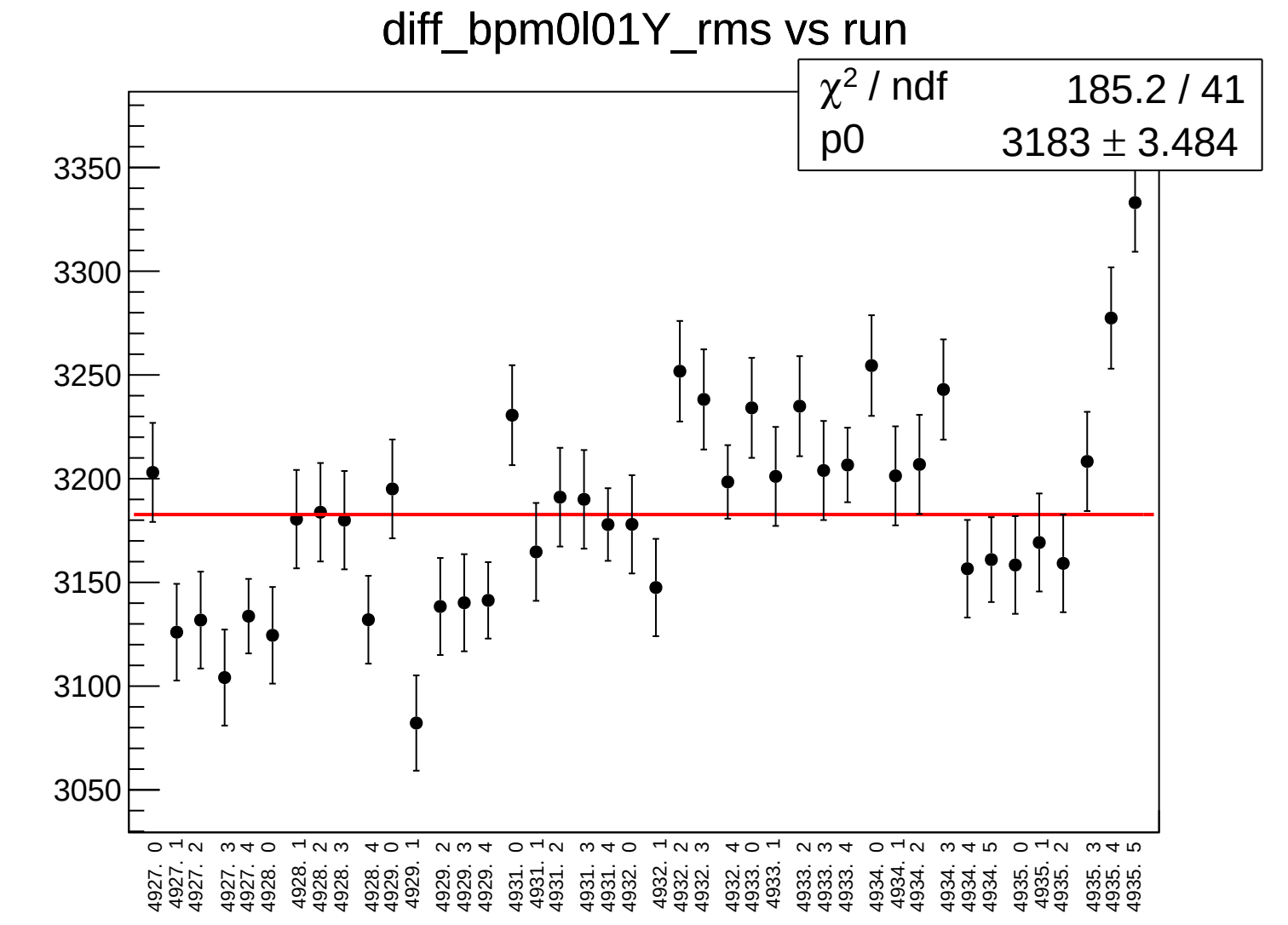

diff_bpm0l01X_mean vs run
χ² / ndf 57.95 / 41
p0 −15.95 ± 11.98
200
100
0
−100
−200
−300
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −60.91
Std Dev 83.83
3
2
1
0
−1
−2

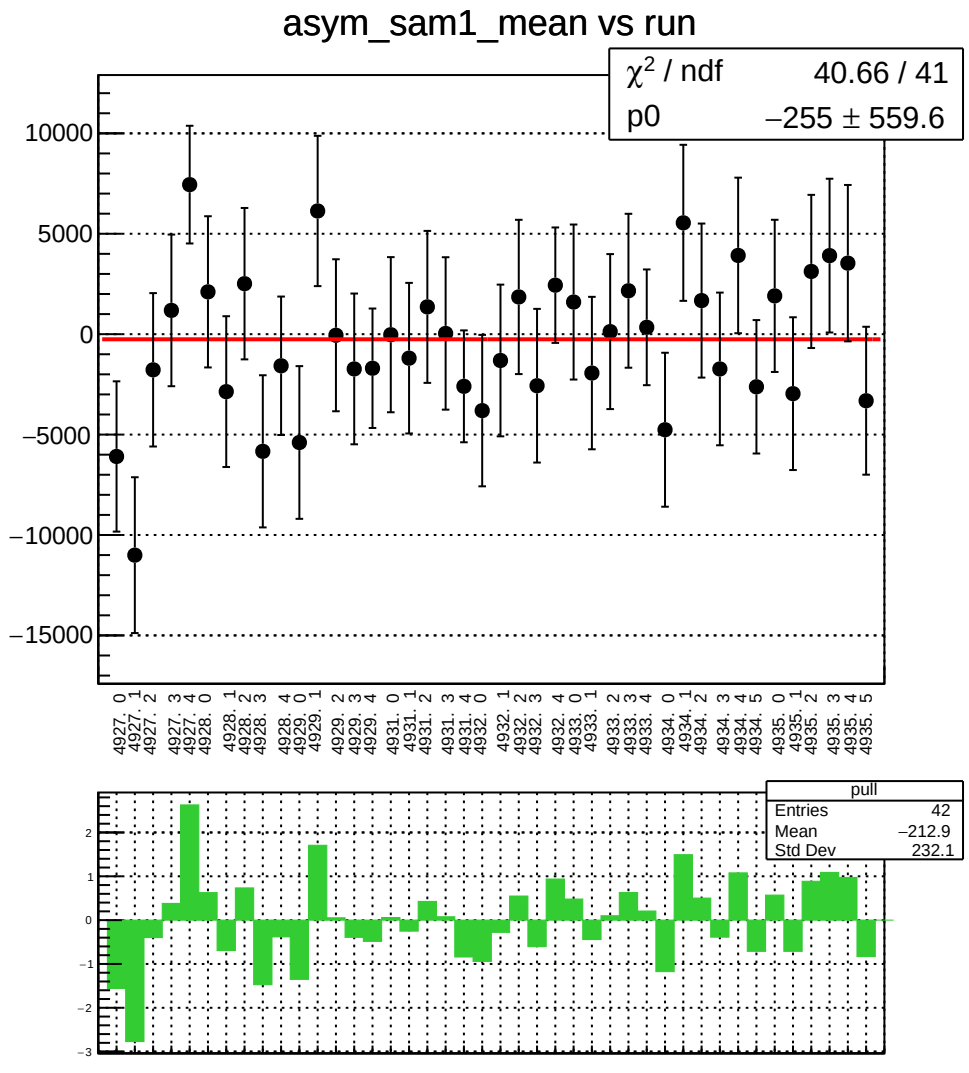

pull1D
Entries 42
Mean −0.02386
Std Dev 1.174
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

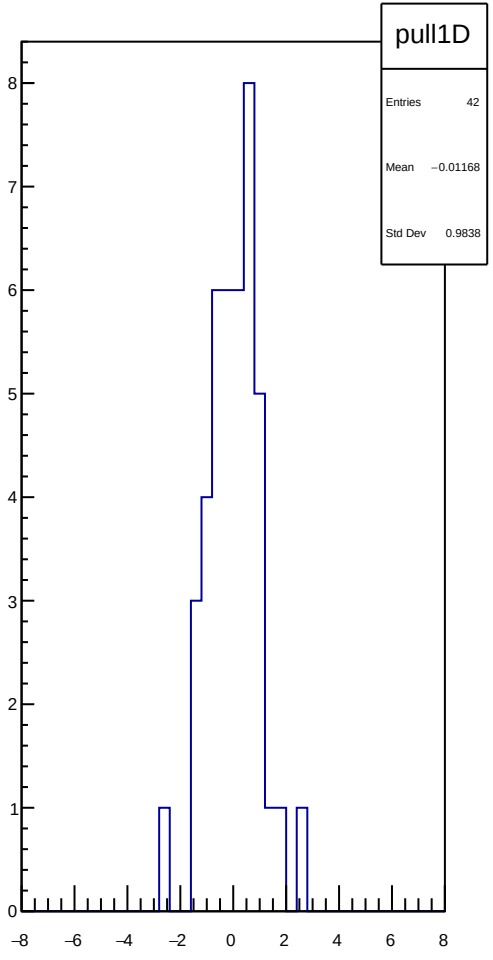

diff_bpm0l01X_rms vs run
χ² / ndf 69.06 / 41
p0 7740 ± 8.473
8000
7950
7900
7850
7800
7750
7700
7650
7600
7550
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

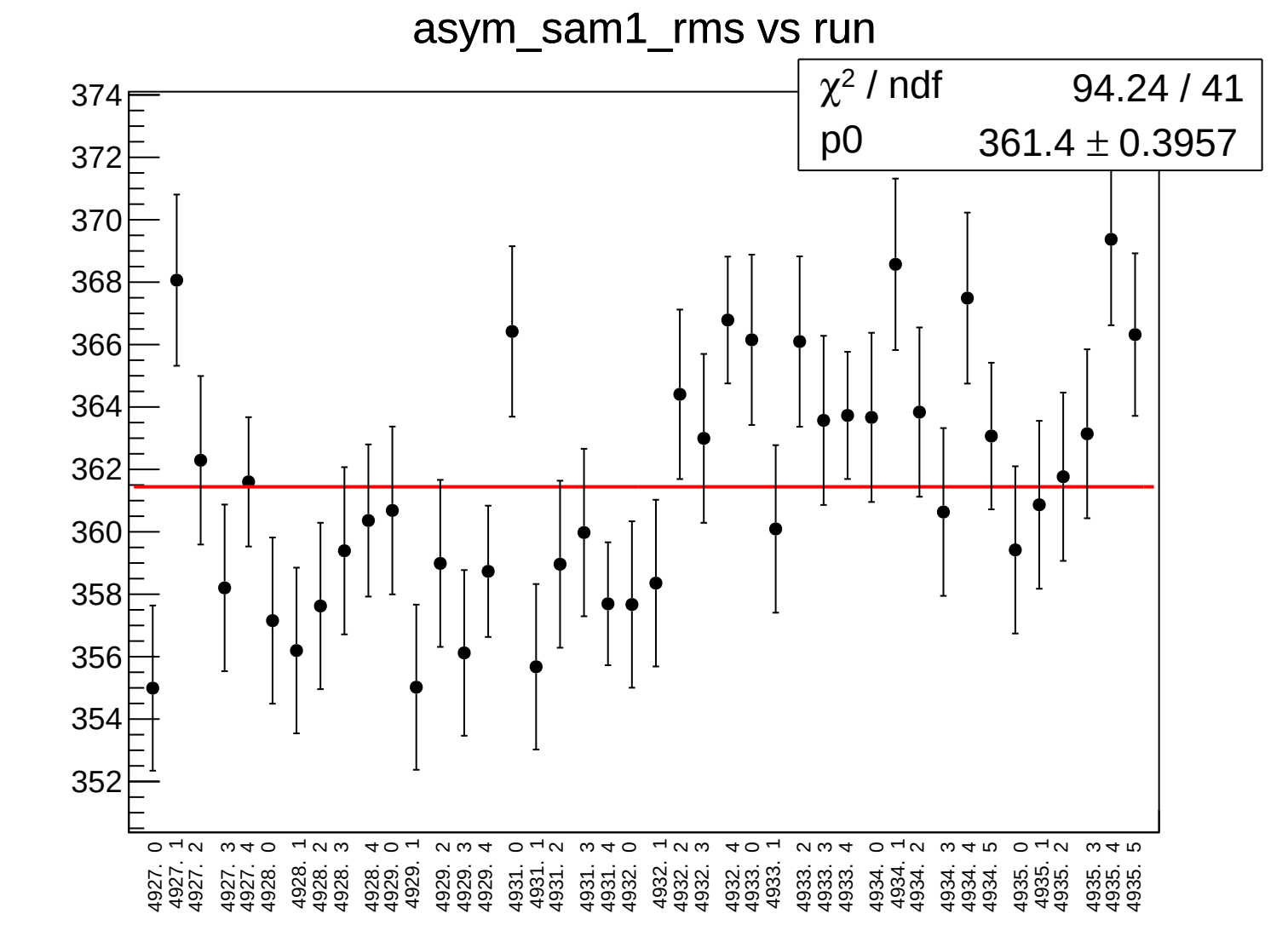

diff_bpm0l01Y_mean vs run
χ² / ndf 54.91 / 41
p0 −26.35 ± 4.928
100
50
0
−50
−100
−150
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −15.41
Std Dev 10.54
2
1
0
−1
−2

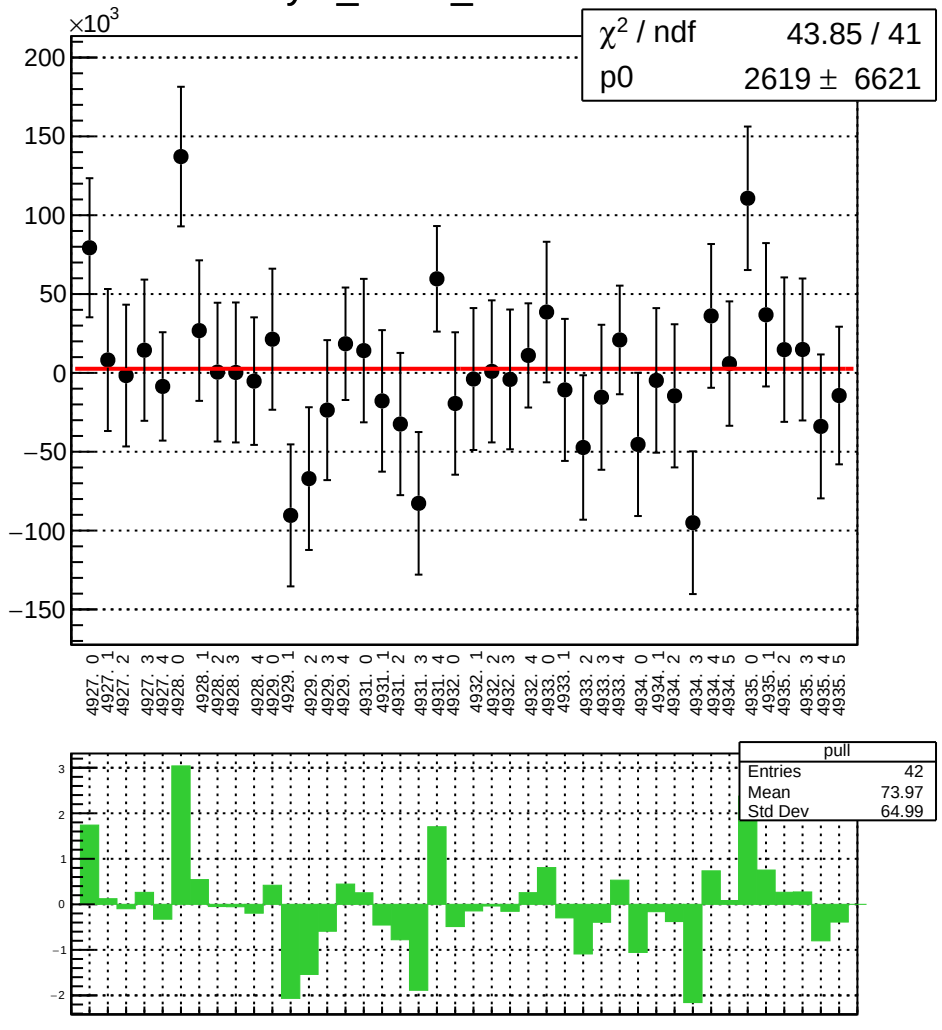

pull1D
Entries 42
Mean −0.03458
Std Dev 1.143
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

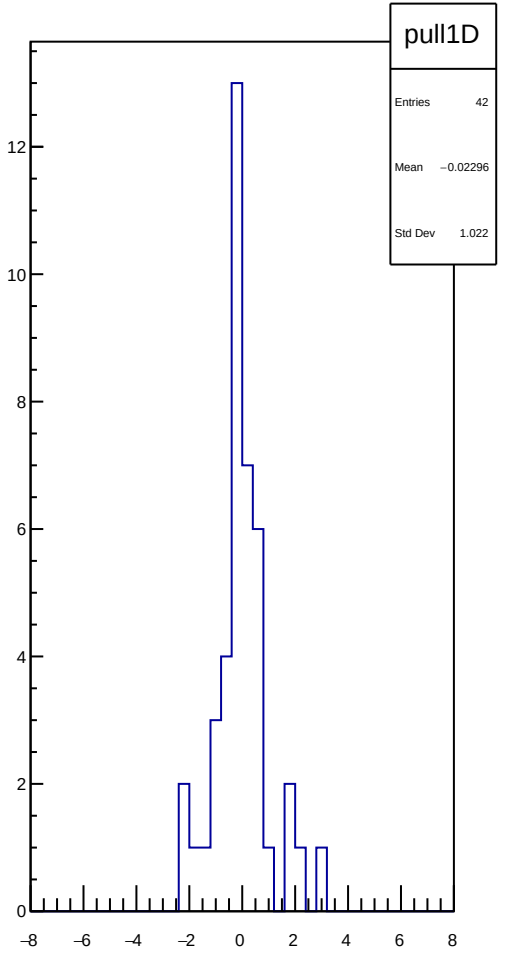

diff_bpm0l01Y_rms vs run
χ² / ndf 185.2 / 41
p0 3183 ± 3.484
3350
3300
3250
3200
3150
3100
3050
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

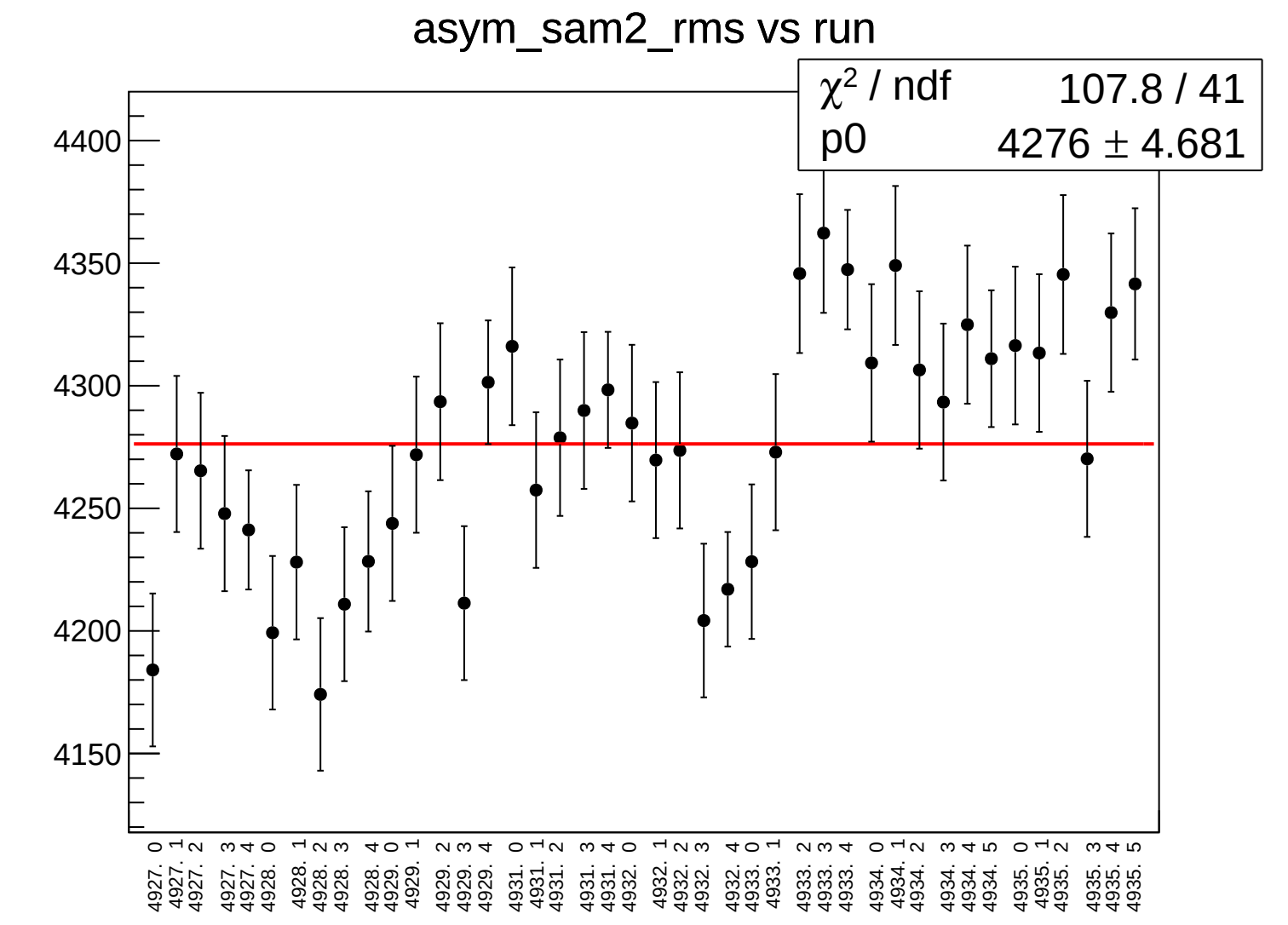

asym_sam1_mean vs run
χ² / ndf 40.66 / 41
p0 −255 ± 559.6
10000
5000
0
−5000
−10000
−15000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −212.9
Std Dev 232.1
2
1
0
−1
−2
−3

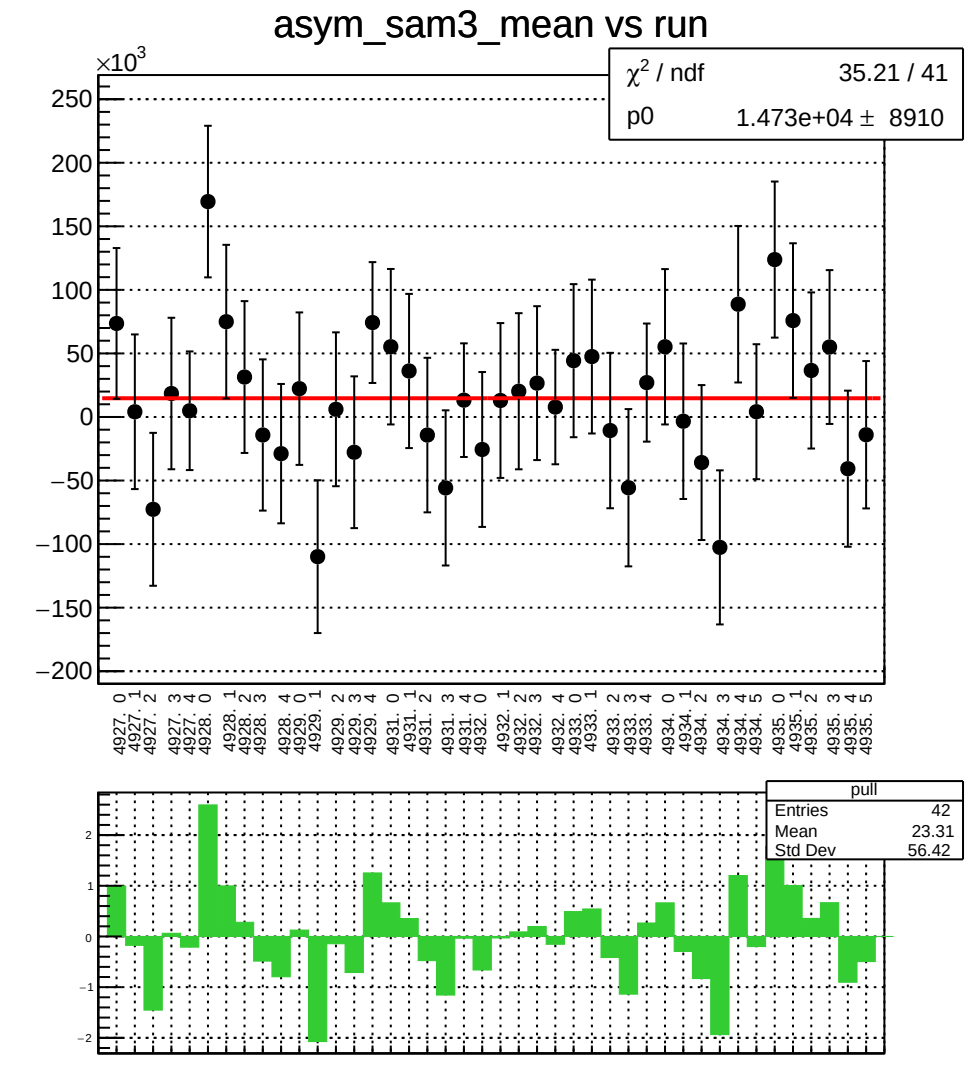

pull1D
Entries 42
Mean −0.01168
Std Dev 0.9838
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

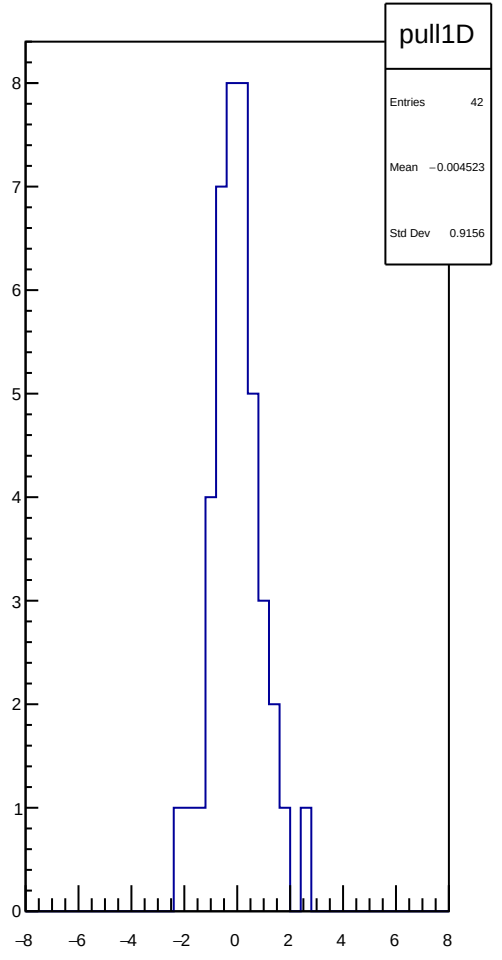

asym_sam1_rms vs run
χ² / ndf 94.24 / 41
p0 361.4 ± 0.3957
374
372
370
368
366
364
362
360
358
356
354
352
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

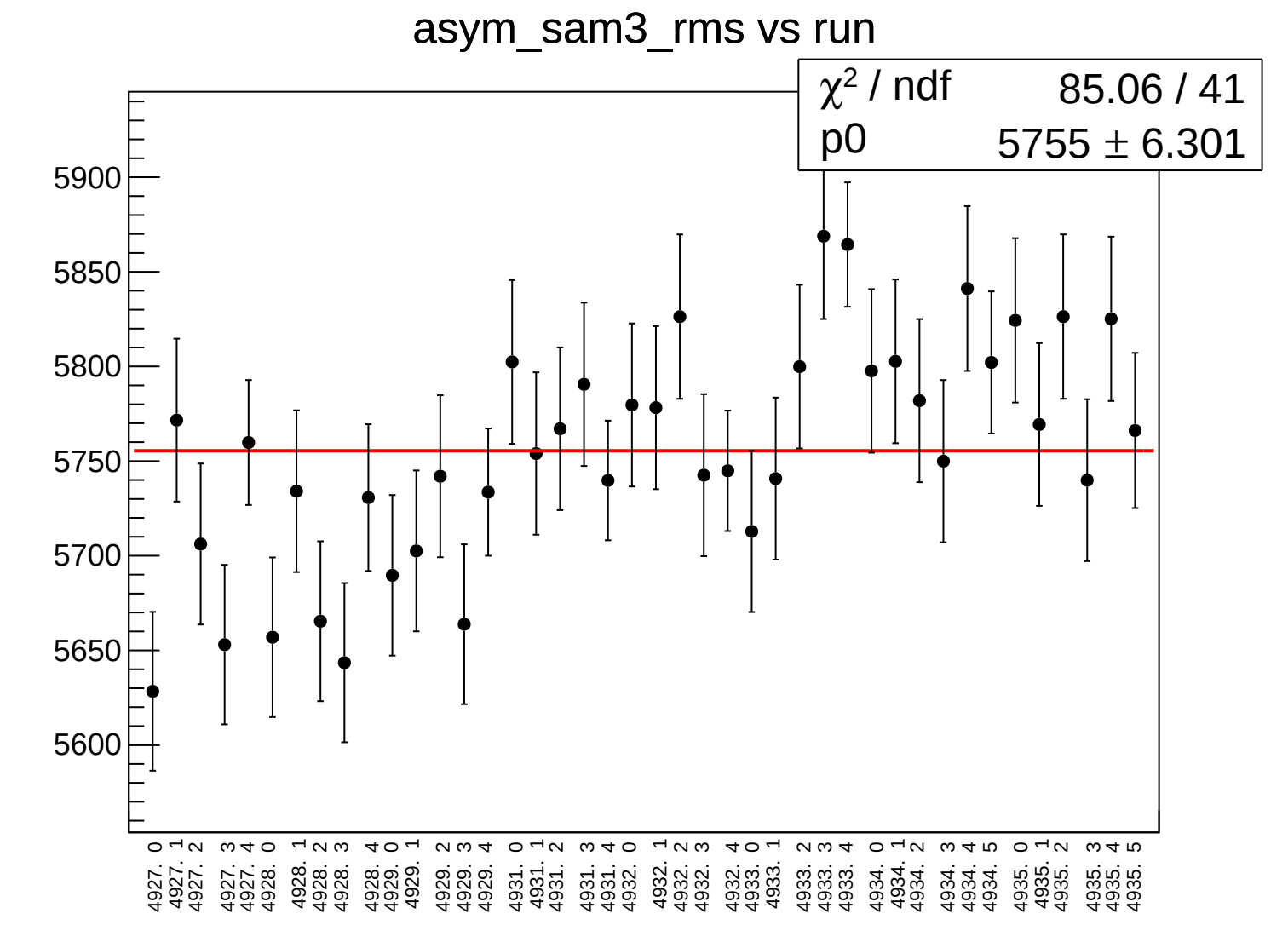

asym_sam2_mean vs run
×10^3
χ^2 / ndf 43.85 / 41
p0 2619 ± 6621
200
150
100
50
0
−50
−100
−150
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 73.97
Std Dev 64.99
3
2
1
0
−1
−2

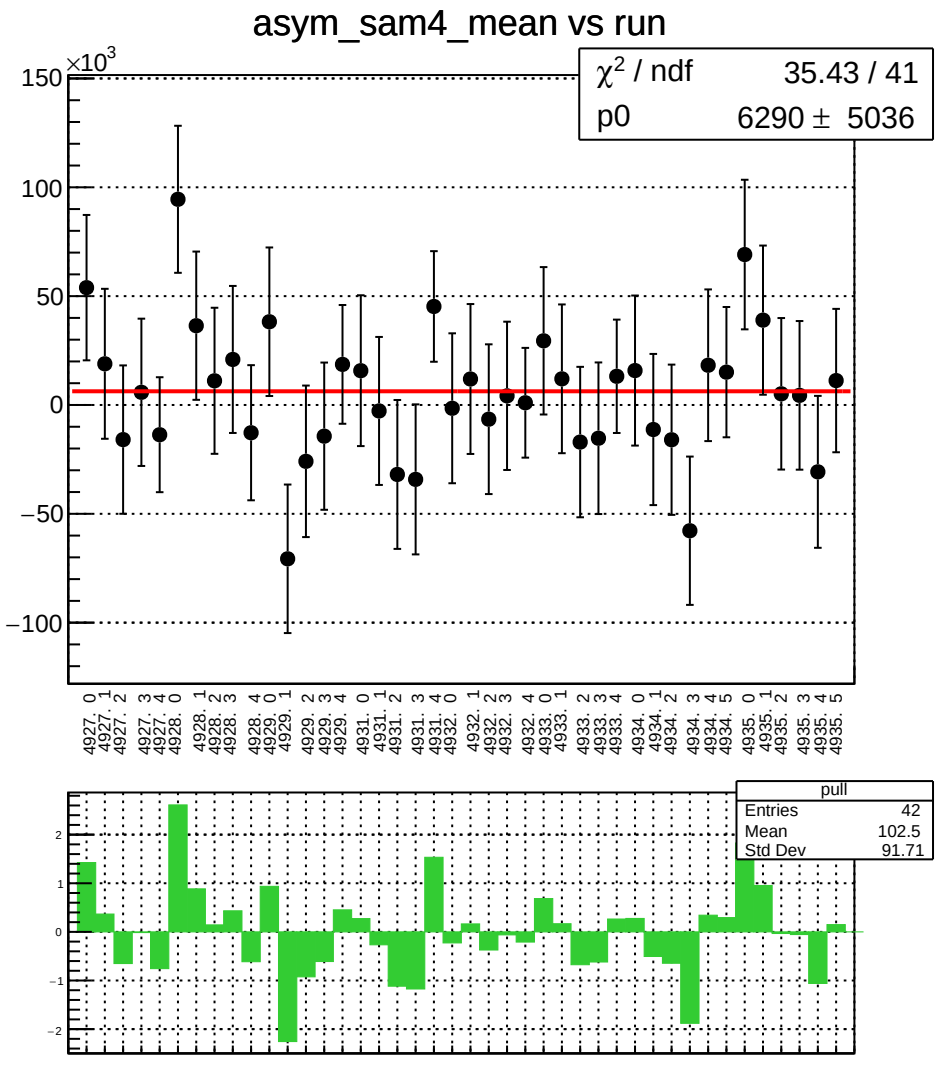

pull1D
Entries 42
Mean −0.02296
Std Dev 1.022
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

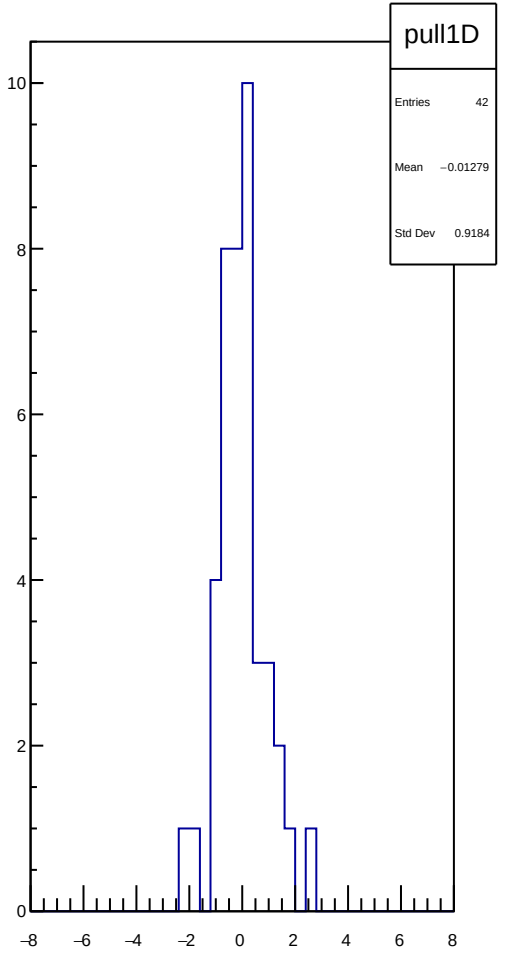

asym_sam2_rms vs run
χ² / ndf 107.8 / 41
p0 4276 ± 4.681
4400
4350
4300
4250
4200
4150
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

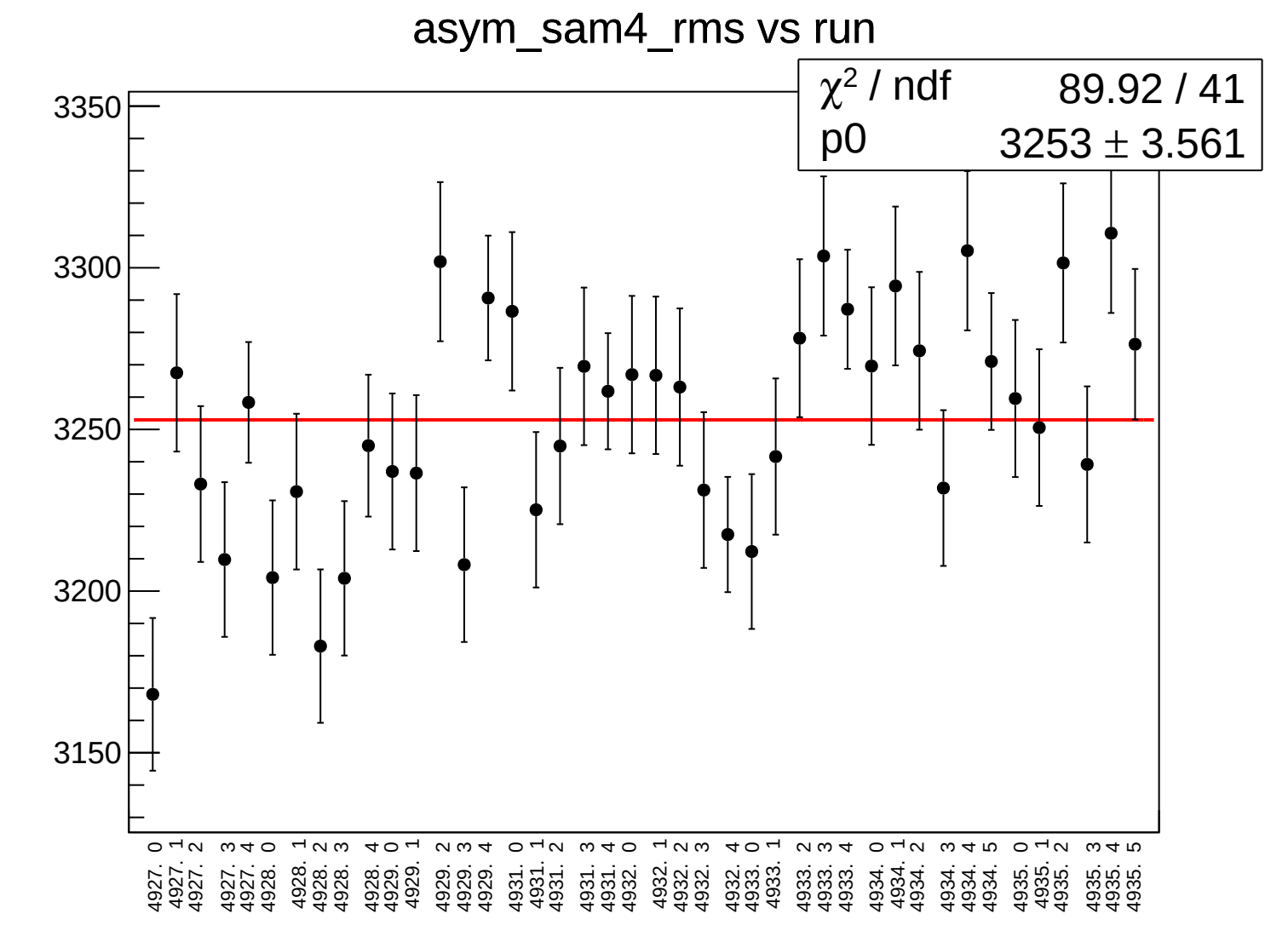

asym_sam3_mean vs run
×10^3
χ² / ndf 35.21 / 41
p0 1.473e+04 ± 8910
250
200
150
100
50
0
−50
−100
−150
−200
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 23.31
Std Dev 56.42
2
1
0
−1
−2

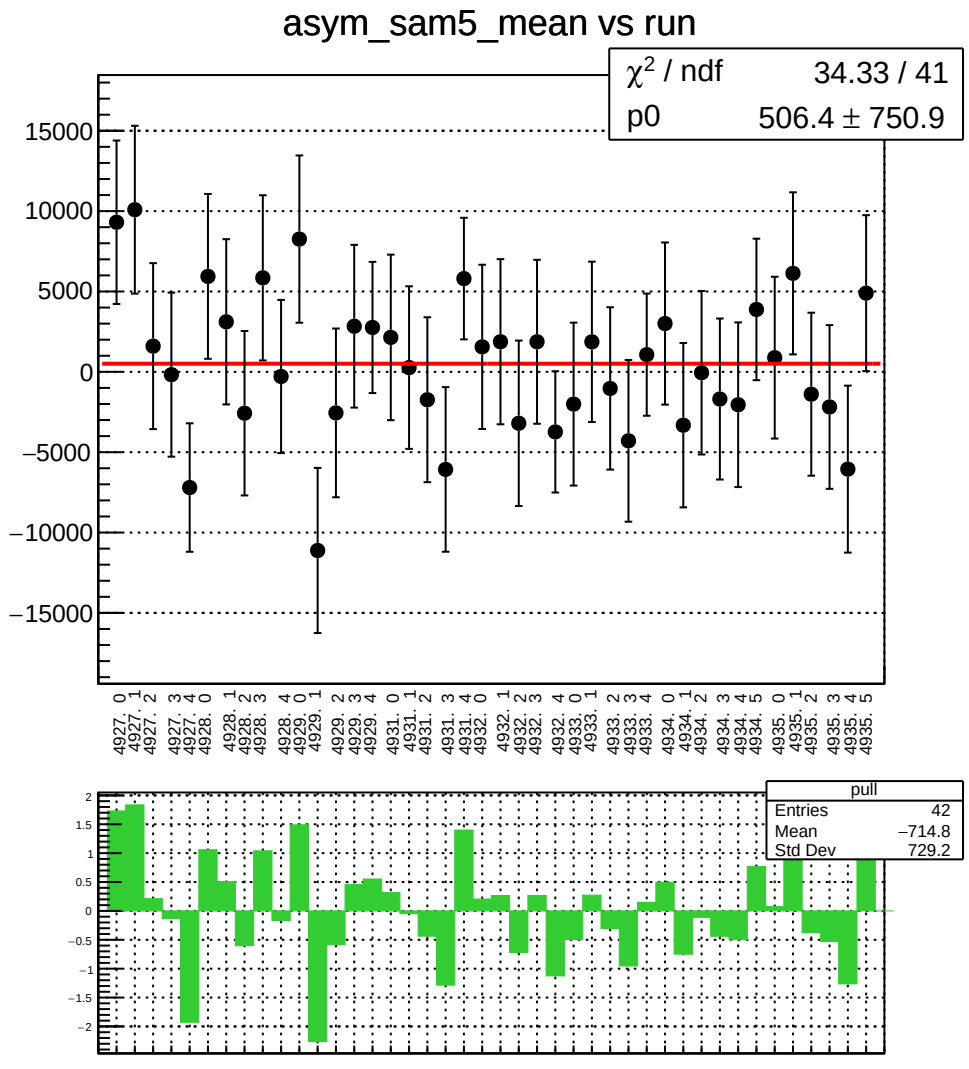

pull1D
Entries 42
Mean −0.004523
Std Dev 0.9156
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

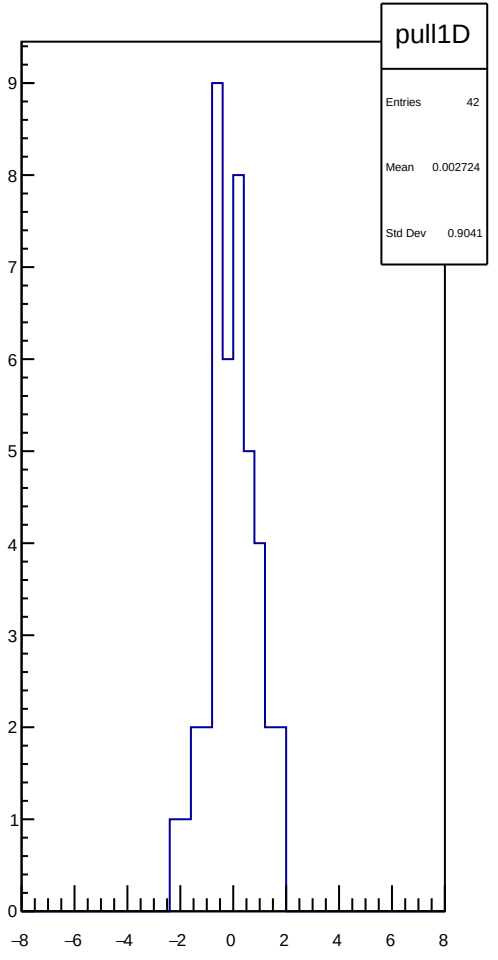

asym_sam3_rms vs run
χ² / ndf 85.06 / 41
p0 5755 ± 6.301
5900
5850
5800
5750
5700
5650
5600
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

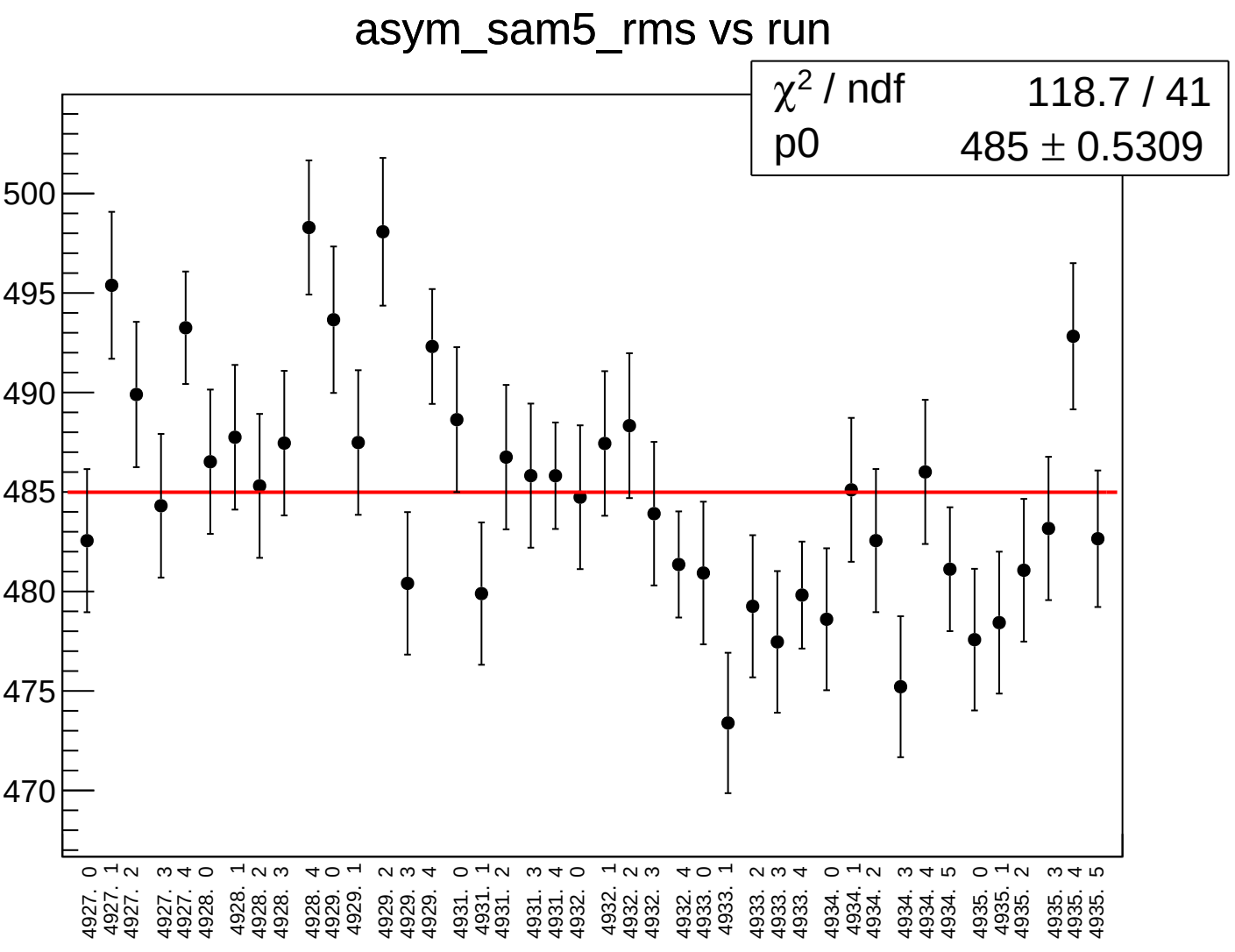

asym_sam4_mean vs run
×10^3
χ² / ndf 35.43 / 41
p0 6290 ± 5036
150
100
50
0
−50
−100
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 102.5
Std Dev 91.71
2
1
0
−1
−2

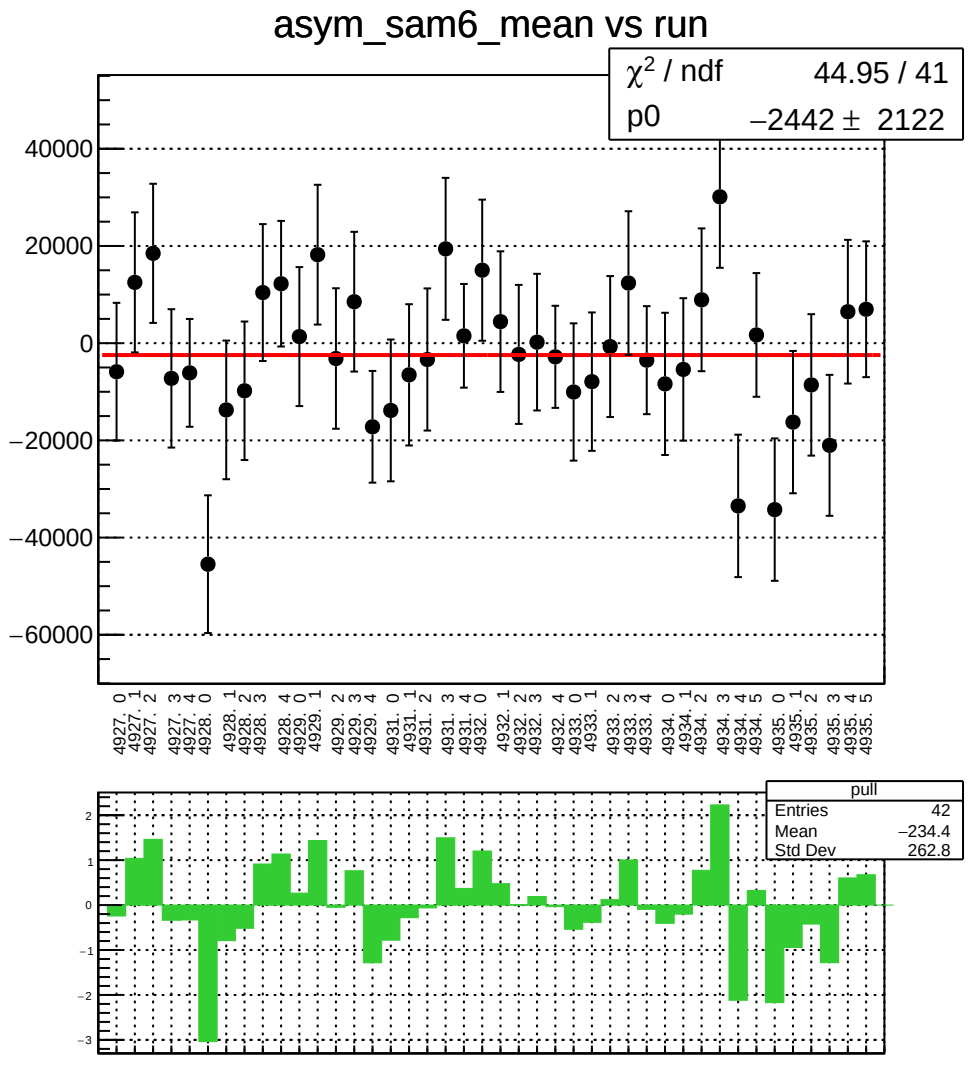

pull1D
Entries 42
Mean −0.01279
Std Dev 0.9184
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

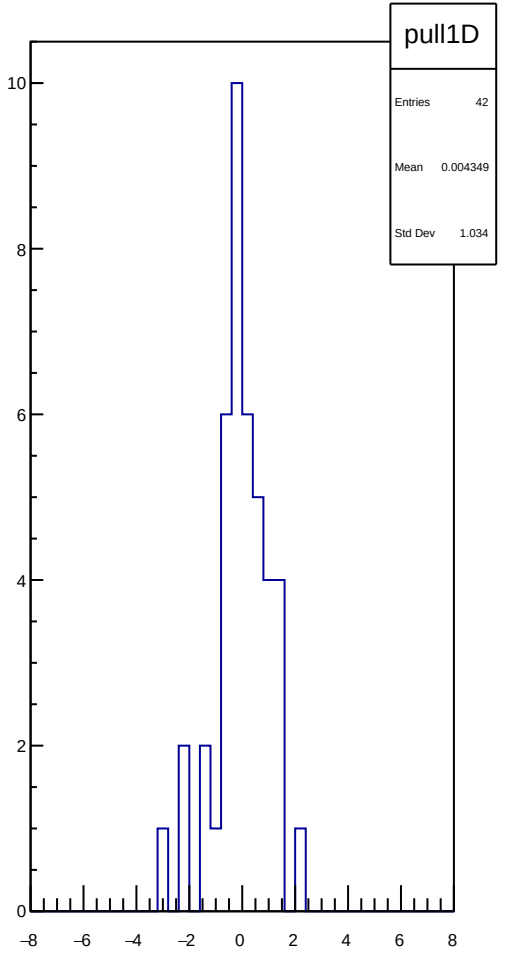

asym_sam4_rms vs run
χ² / ndf 89.92 / 41
p0 3253 ± 3.561
3350
3300
3250
3200
3150
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

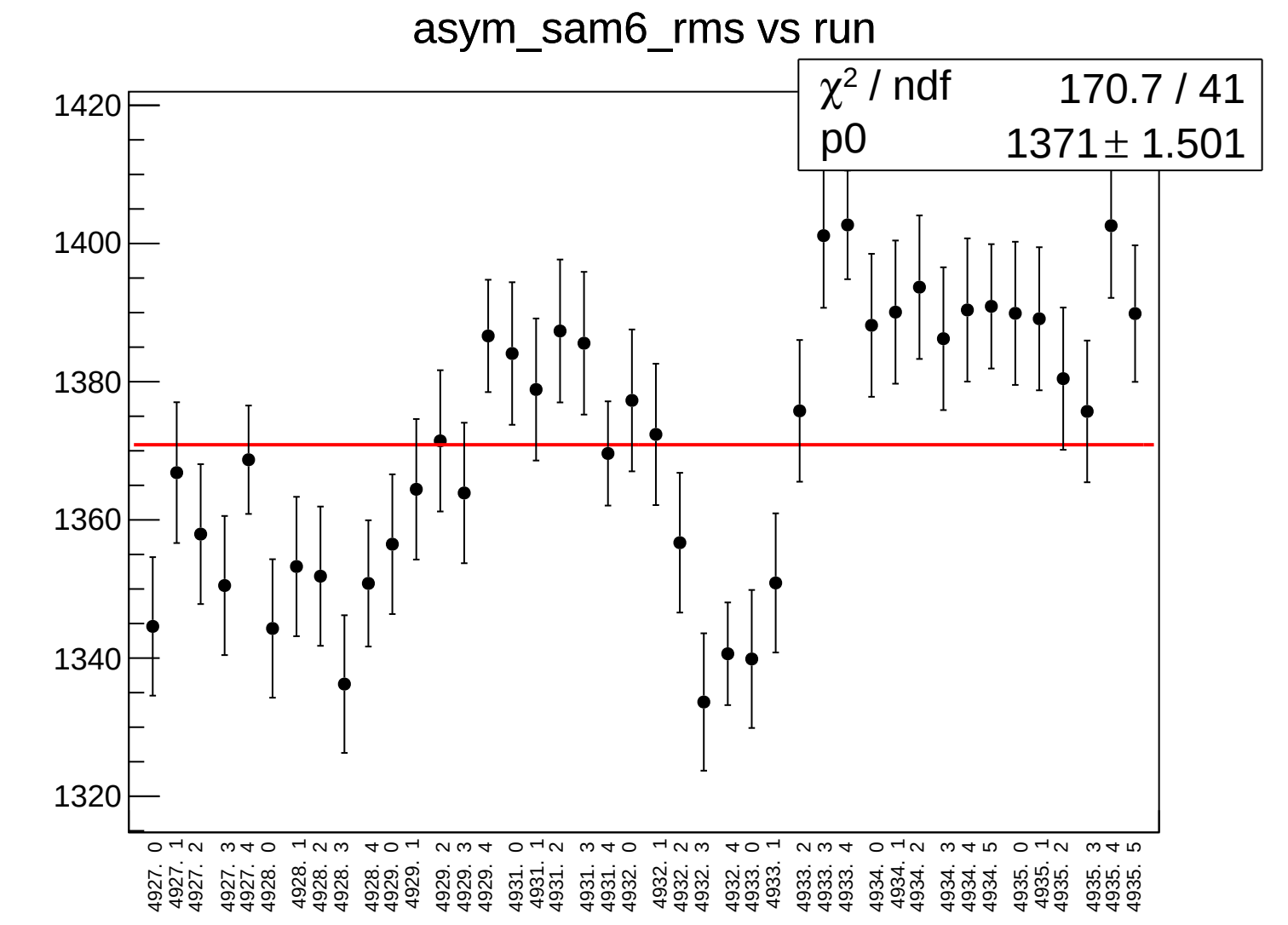

asym_sam5_mean vs run
χ² / ndf 34.33 / 41
p0 506.4 ± 750.9
15000
10000
5000
0
−5000
−10000
−15000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −714.8
Std Dev 729.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

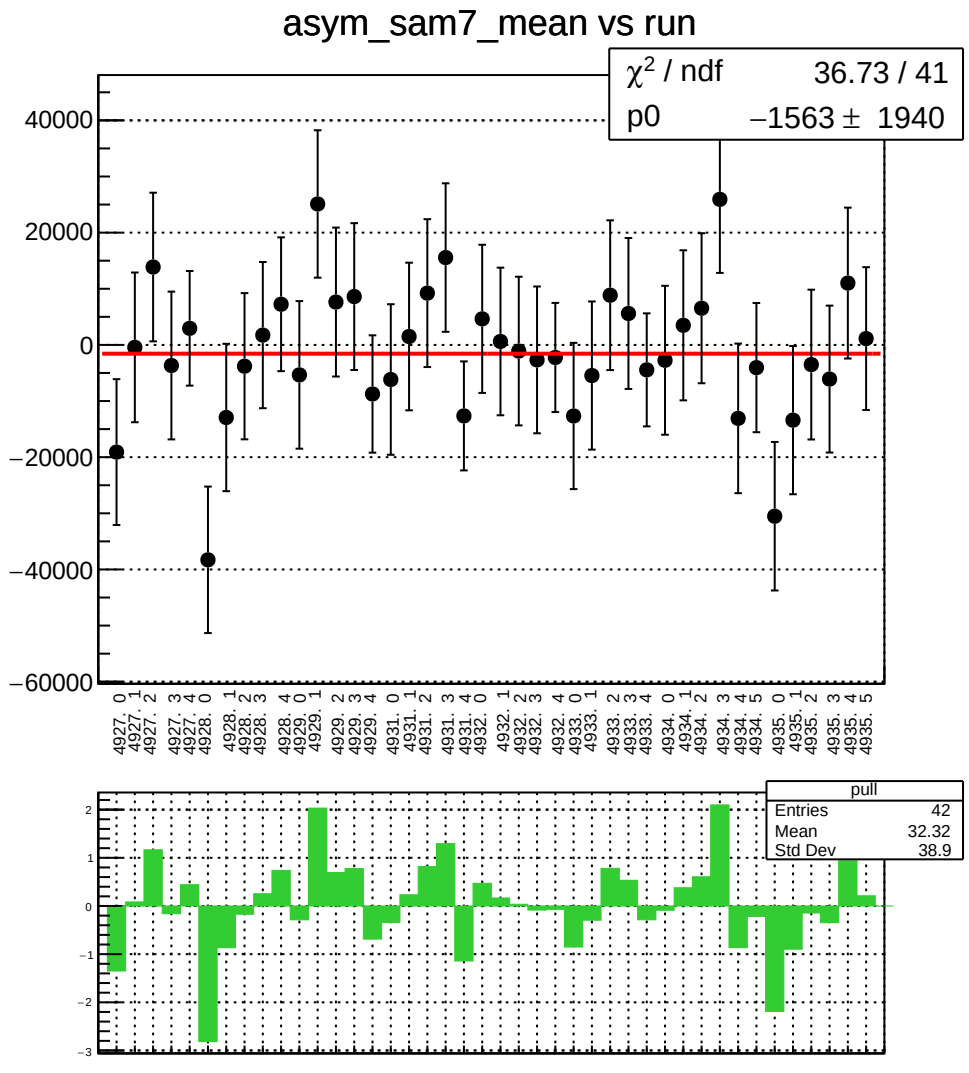

pull1D
Entries 42
Mean 0.002724
Std Dev 0.9041
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

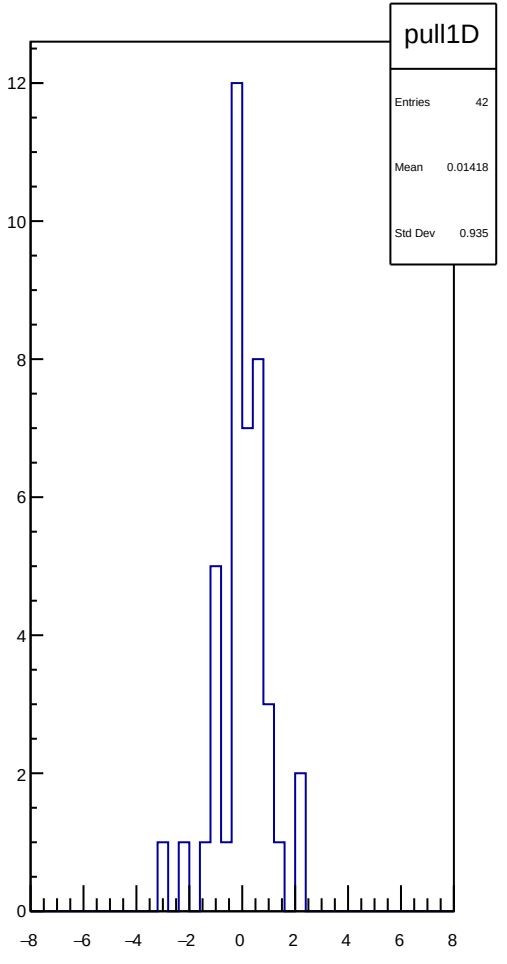

asym_sam5_rms vs run
χ^2 / ndf 118.7 / 41
p0 485 ± 0.5309
500
495
490
485
480
475
470
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

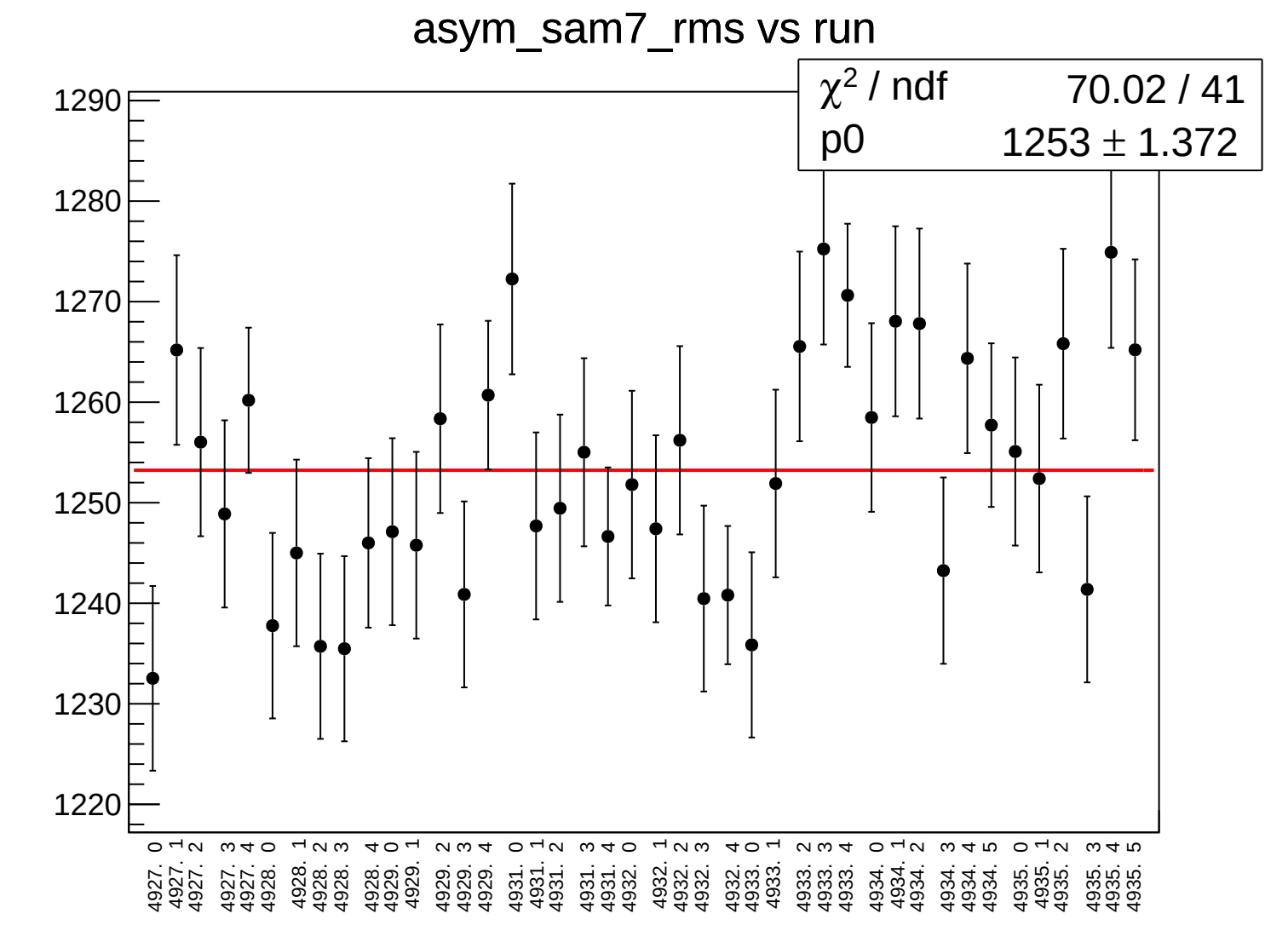

asym_sam6_mean vs run
χ² / ndf 44.95 / 41
p0 −2442 ± 2122
40000
20000
0
−20000
−40000
−60000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −234.4
Std Dev 262.8
2
1
0
−1
−2
−3

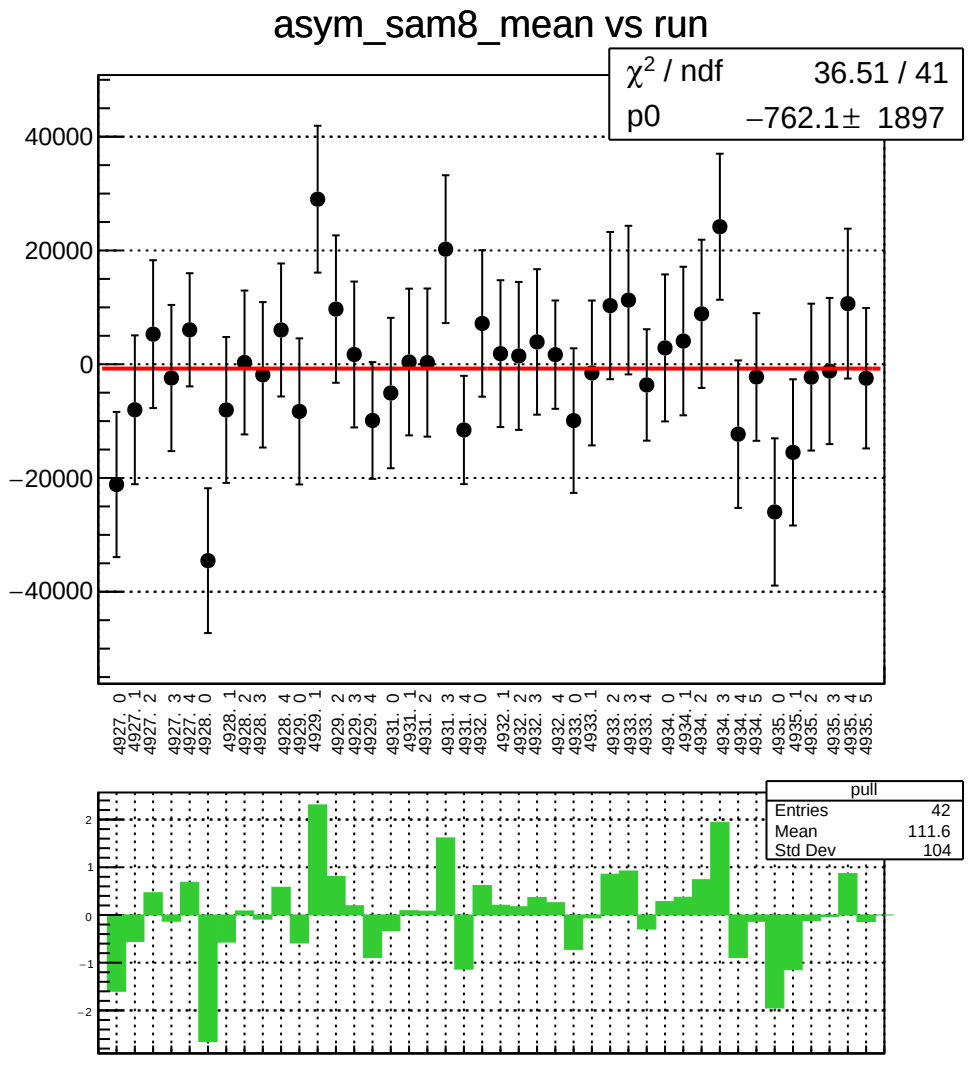

pull1D
Entries 42
Mean 0.004349
Std Dev 1.034
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

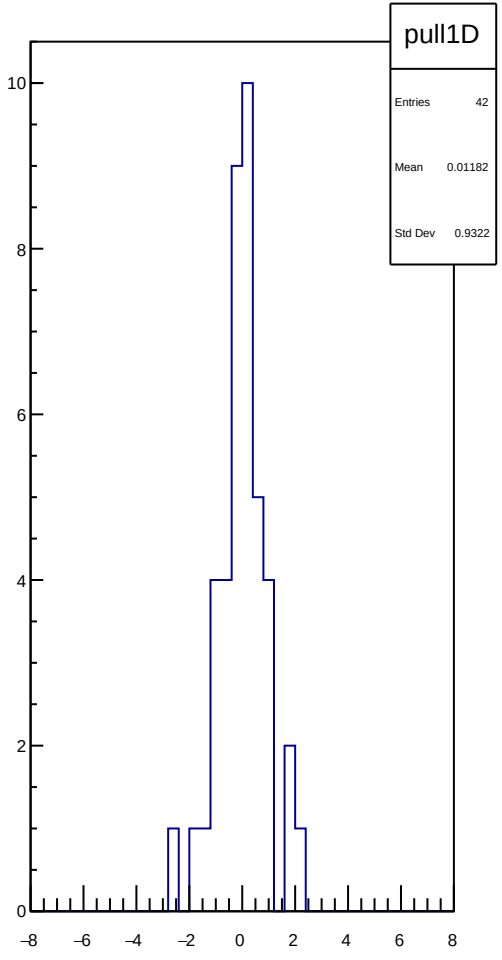

asym_sam6_rms vs run
χ² / ndf 170.7 / 41
p0 1371 ± 1.501
1420
1400
1380
1360
1340
1320
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

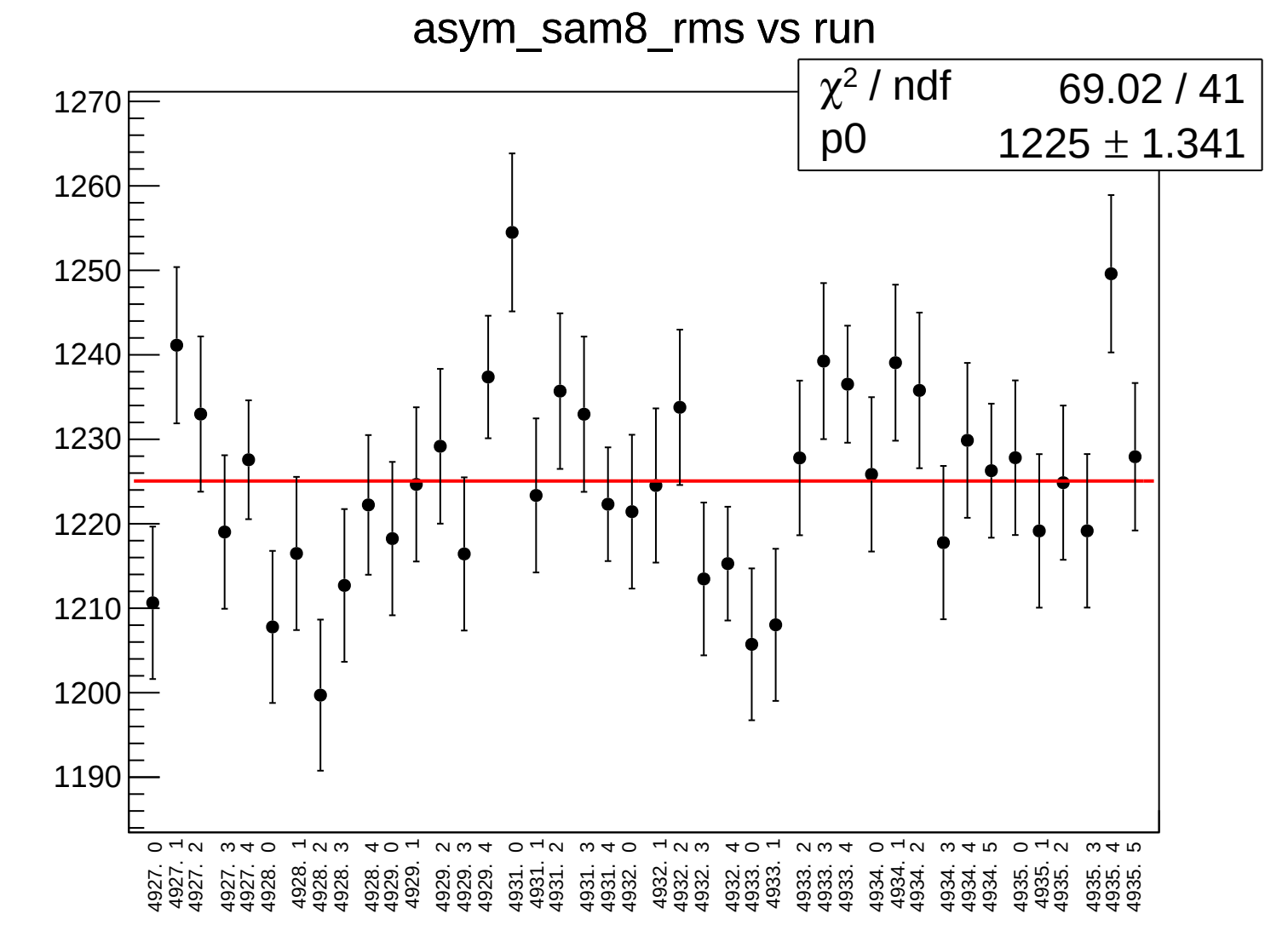

asym_sam7_mean vs run
χ² / ndf 36.73 / 41
p0 −1563 ± 1940
40000
20000
0
−20000
−40000
−60000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 32.32
Std Dev 38.9
2
1
0
−1
−2
−3

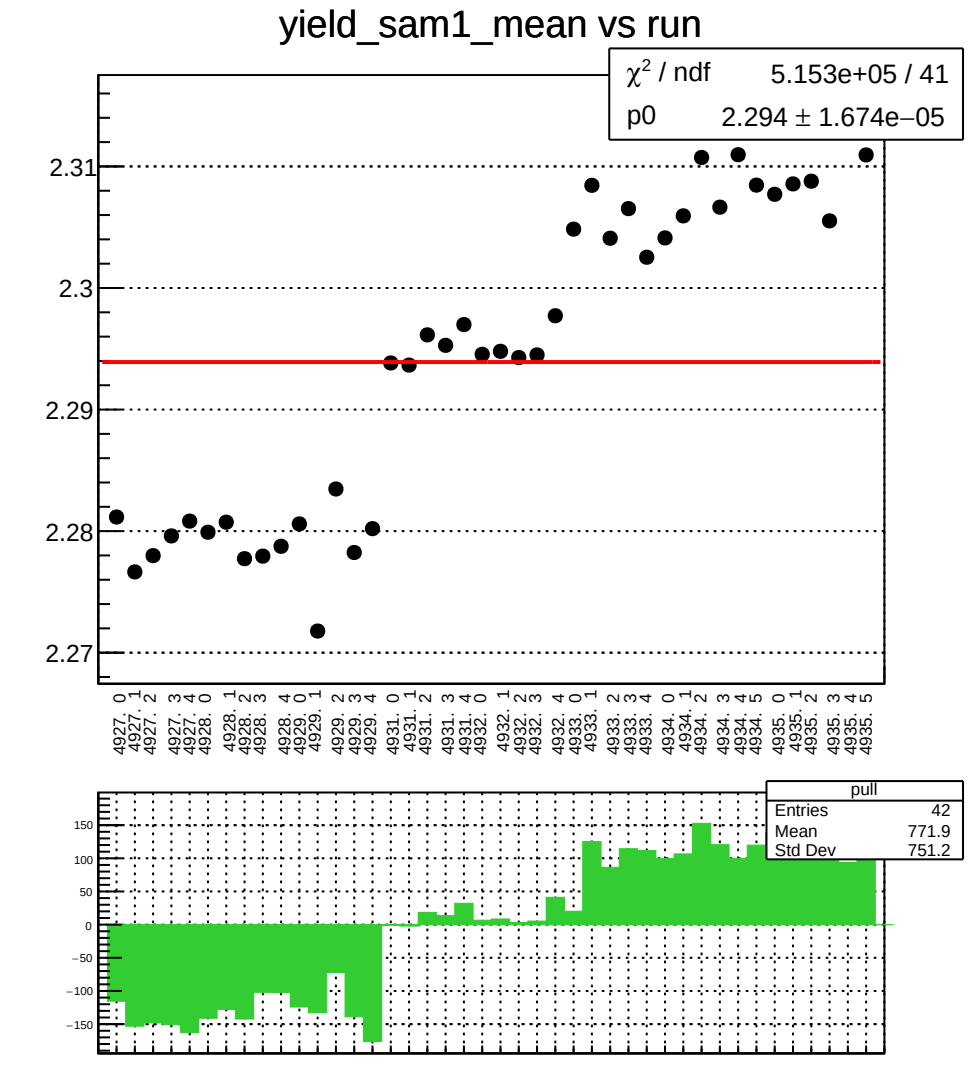

pull1D
Entries 42
Mean 0.01418
Std Dev 0.935
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

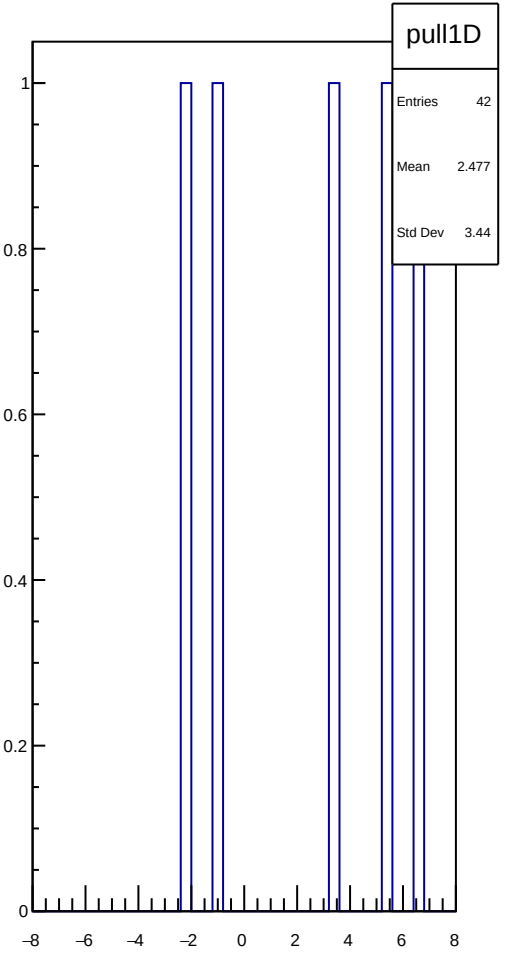

asym_sam7_rms vs run
χ² / ndf 70.02 / 41
p0 1253 ± 1.372
1290
1280
1270
1260
1250
1240
1230
1220
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

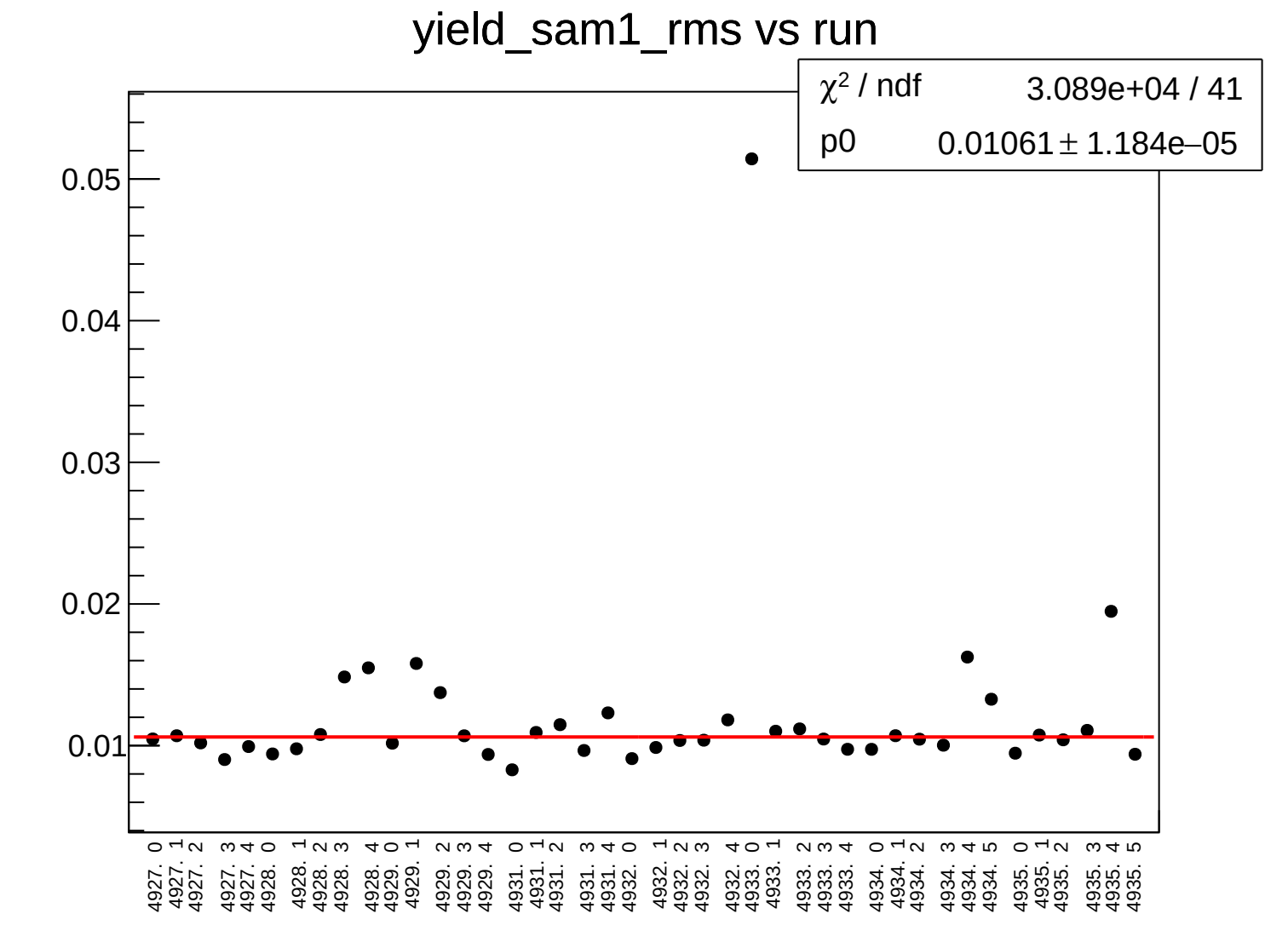

asym_sam8_mean vs run
χ² / ndf 36.51 / 41
p0 −762.1± 1897
40000
20000
0
−20000
−40000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 111.6
Std Dev 104
2
1
0
−1
−2

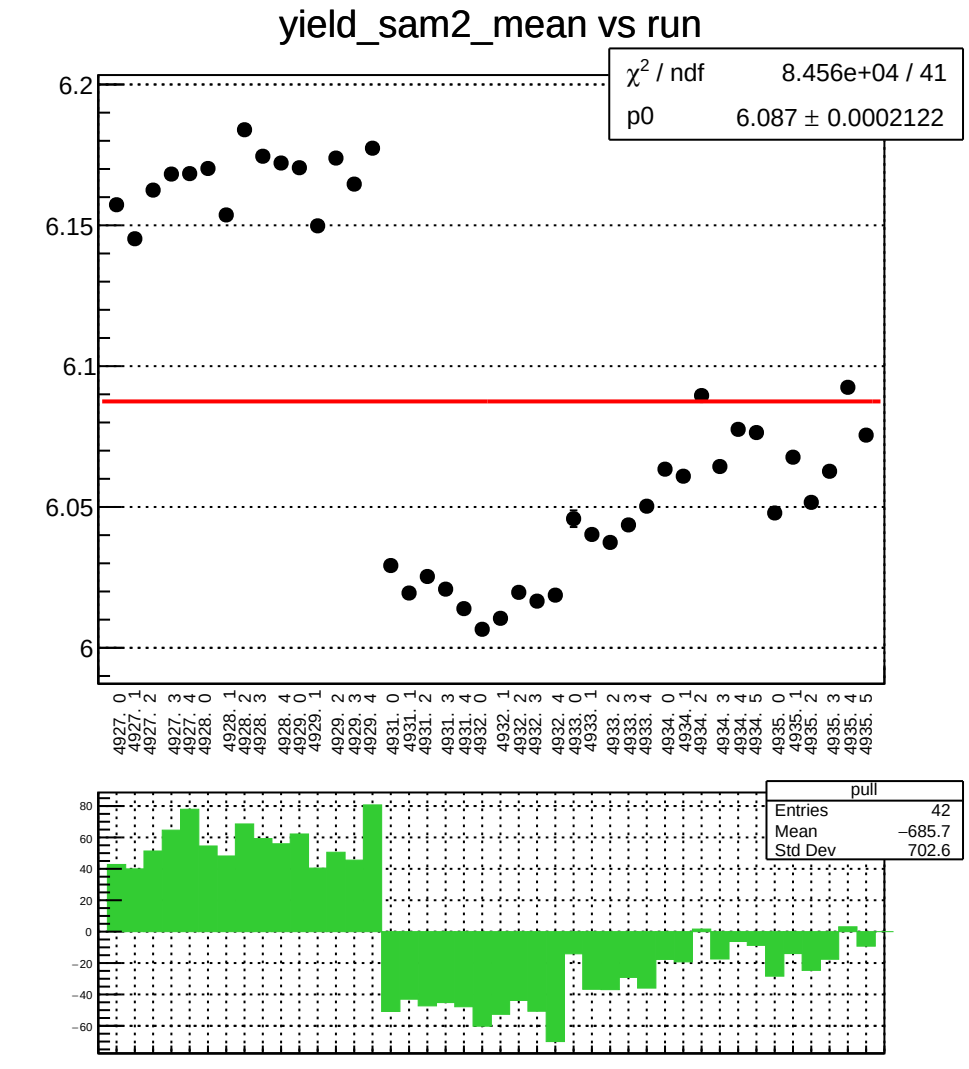

pull1D
Entries 42
Mean 0.01182
Std Dev 0.9322
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

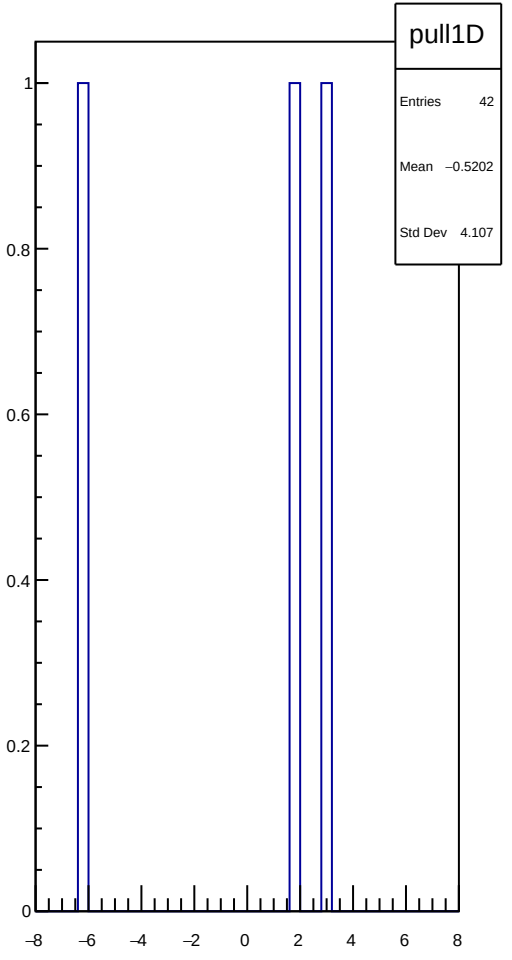

asym_sam8_rms vs run
χ² / ndf 69.02 / 41
p0 1225 ± 1.341
1270
1260
1250
1240
1230
1220
1210
1200
1190
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

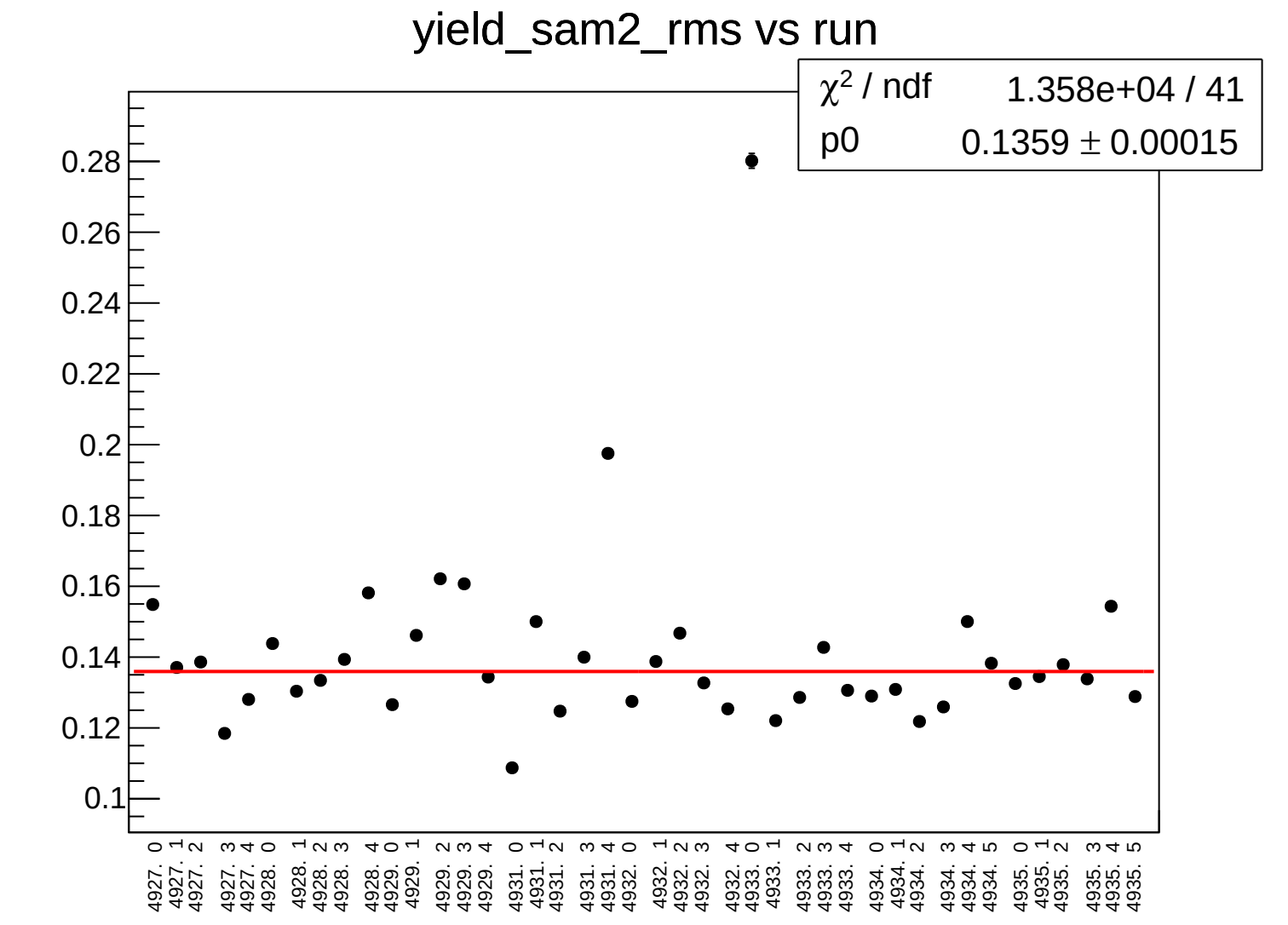

yield_sam1_mean vs run
χ² / ndf 5.153e+05 / 41
p0 2.294 ± 1.674e−05
2.31
2.3
2.29
2.28
2.27
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 771.9
Std Dev 751.2
150
100
50
0
−50
−100
−150

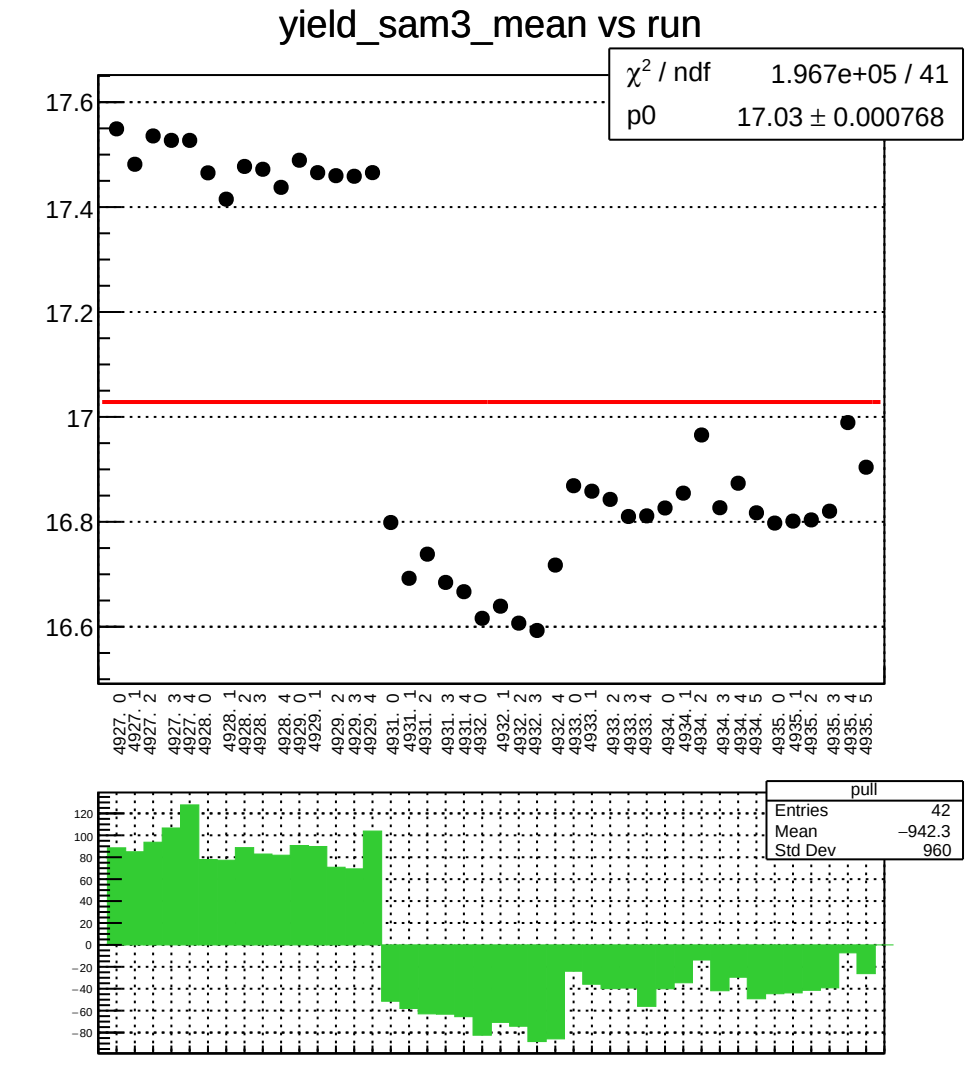

pull1D
Entries 42
Mean 2.477
Std Dev 3.44
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

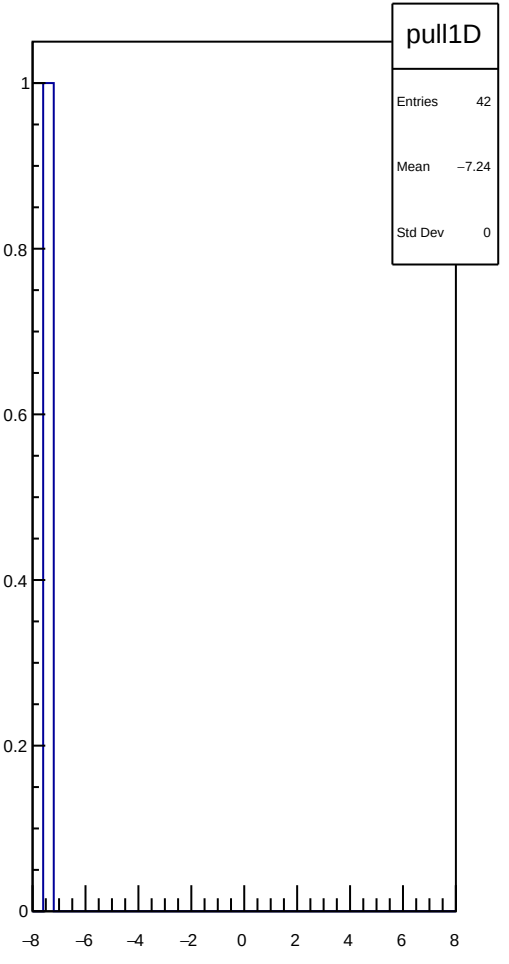

yield_sam1_rms vs run
χ² / ndf 3.089e+04 / 41
p0 0.01061 ± 1.184e–05
0.05
0.04
0.03
0.02
0.01
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

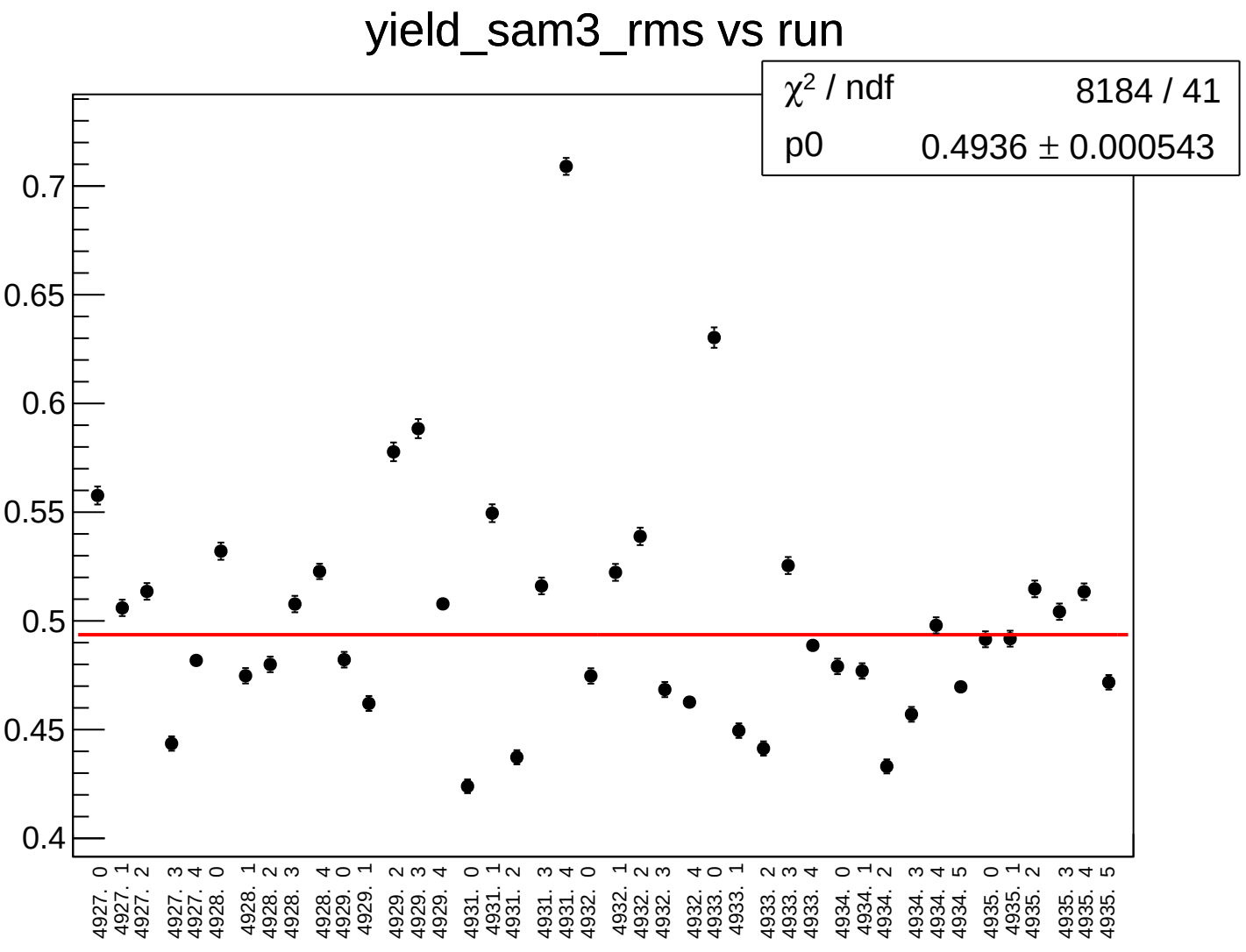

yield_sam2_mean vs run
χ² / ndf 8.456e+04 / 41
p0 6.087 ± 0.0002122
6.2
6.15
6.1
6.05
6
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −685.7
Std Dev 702.6
80
60
40
20
0
−20
−40
−60

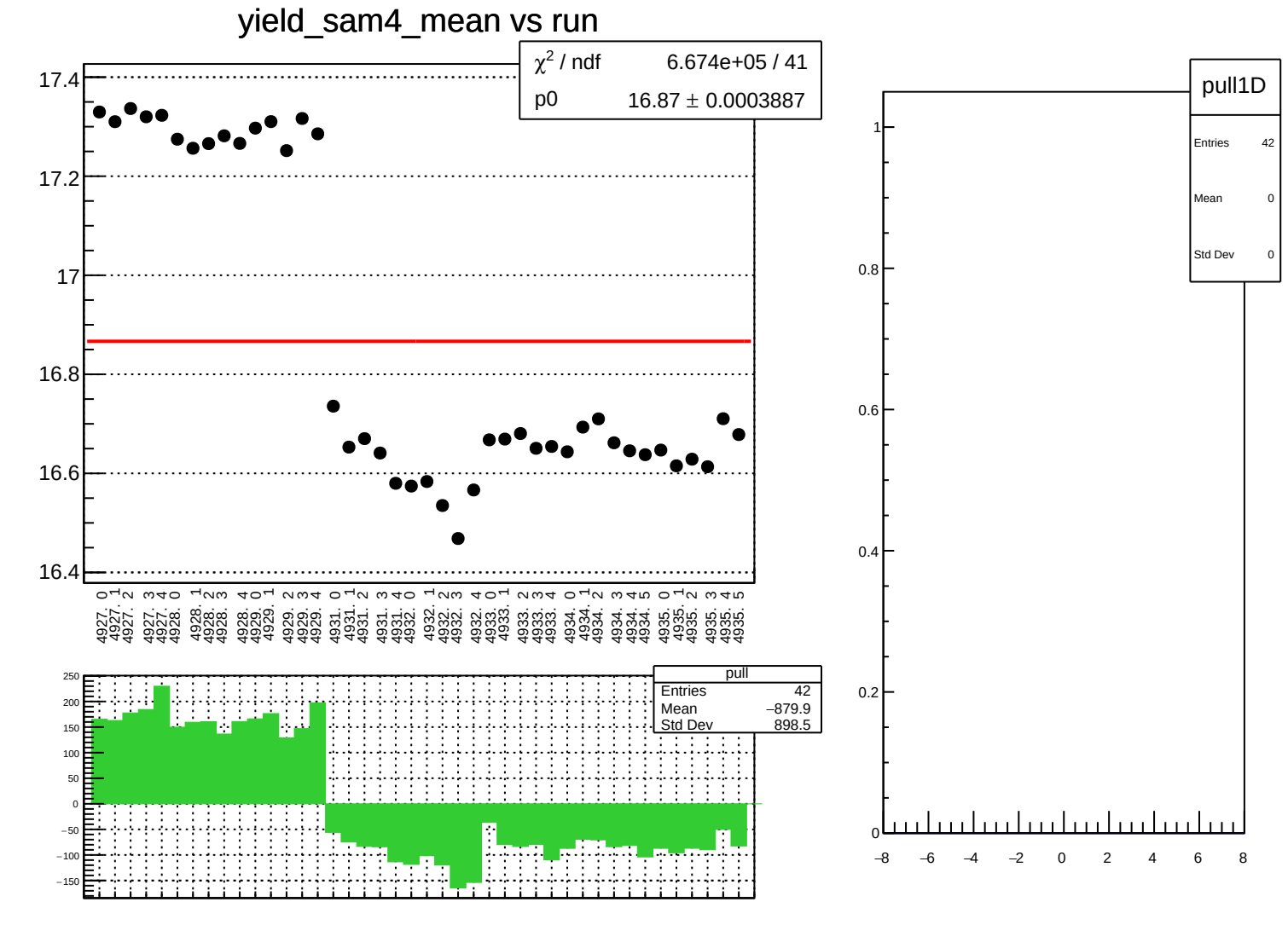

pull1D
Entries 42
Mean −0.5202
Std Dev 4.107
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

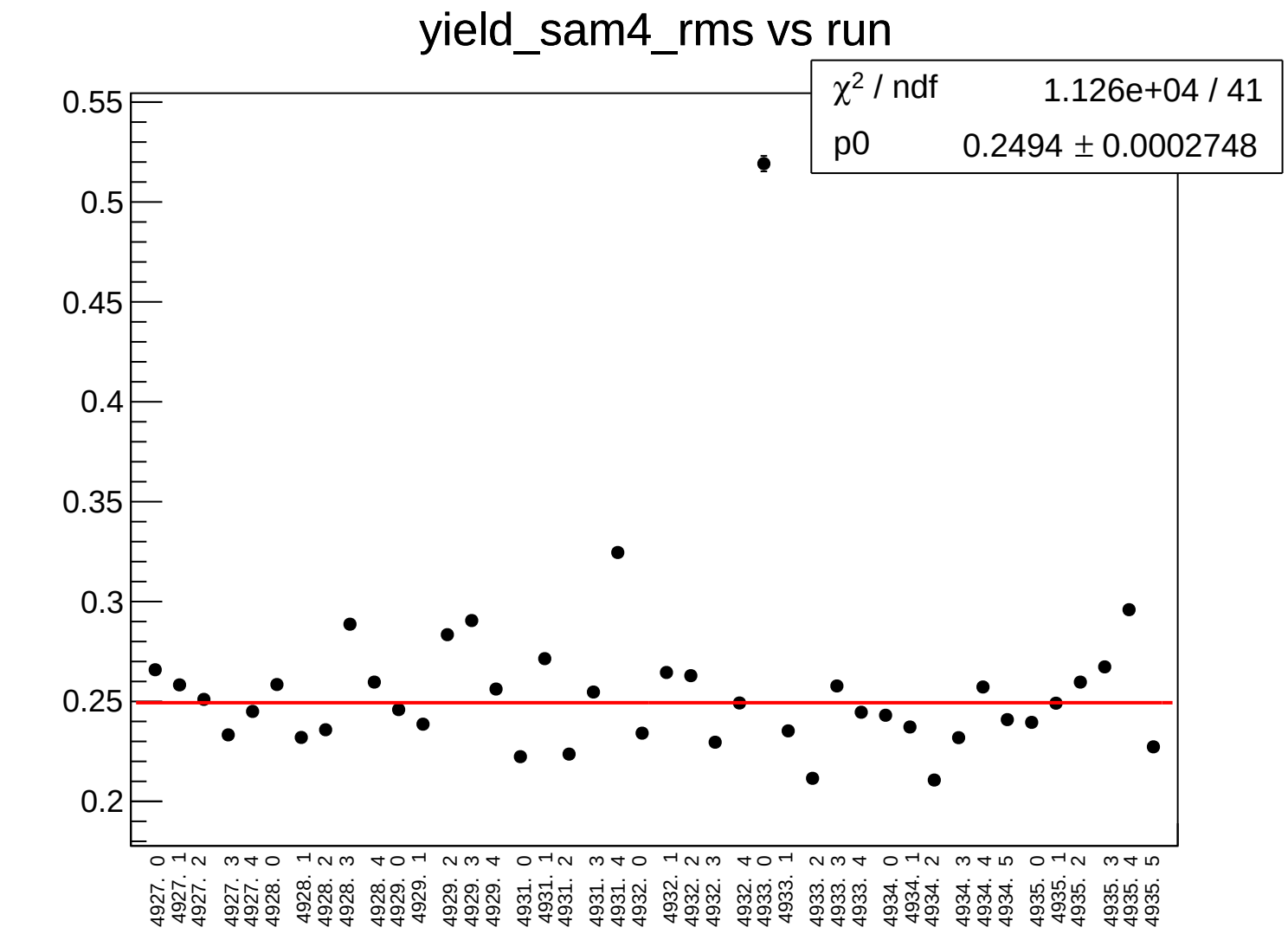

yield_sam2_rms vs run
χ² / ndf 1.358e+04 / 41
p0 0.1359 ± 0.00015
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

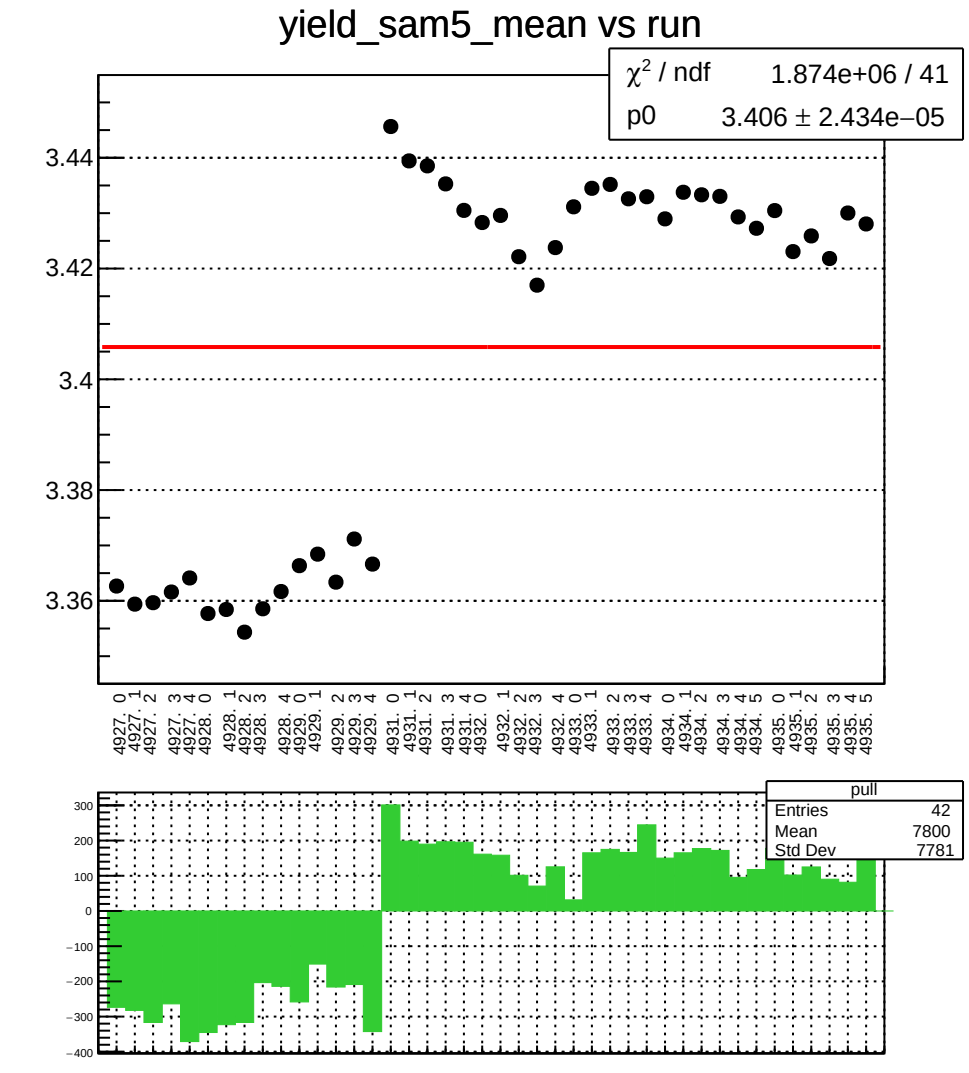

yield_sam3_mean vs run
χ² / ndf 1.967e+05 / 41
p0 17.03 ± 0.000768
17.6
17.4
17.2
17
16.8
16.6
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −942.3
Std Dev 960
120
100
80
60
40
20
0
−20
−40
−60
−80

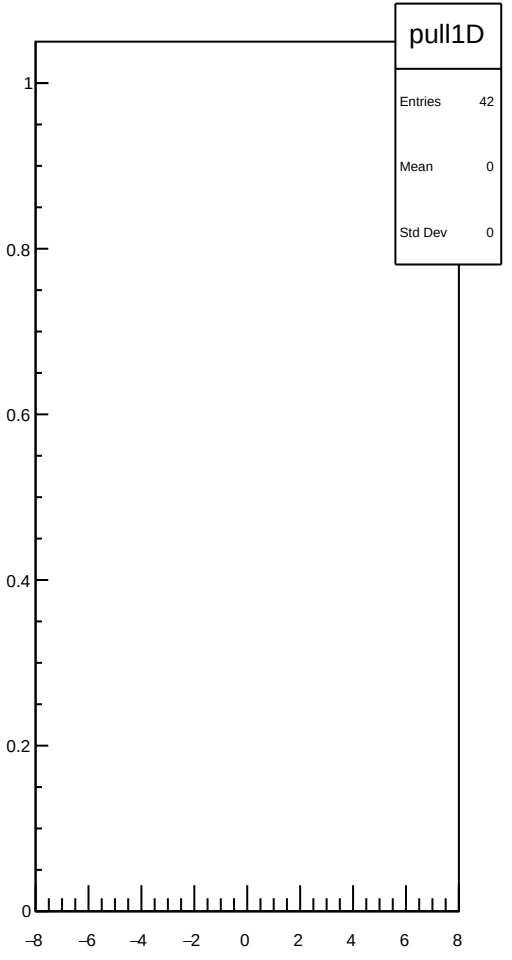

pull1D
Entries 42
Mean −7.24
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

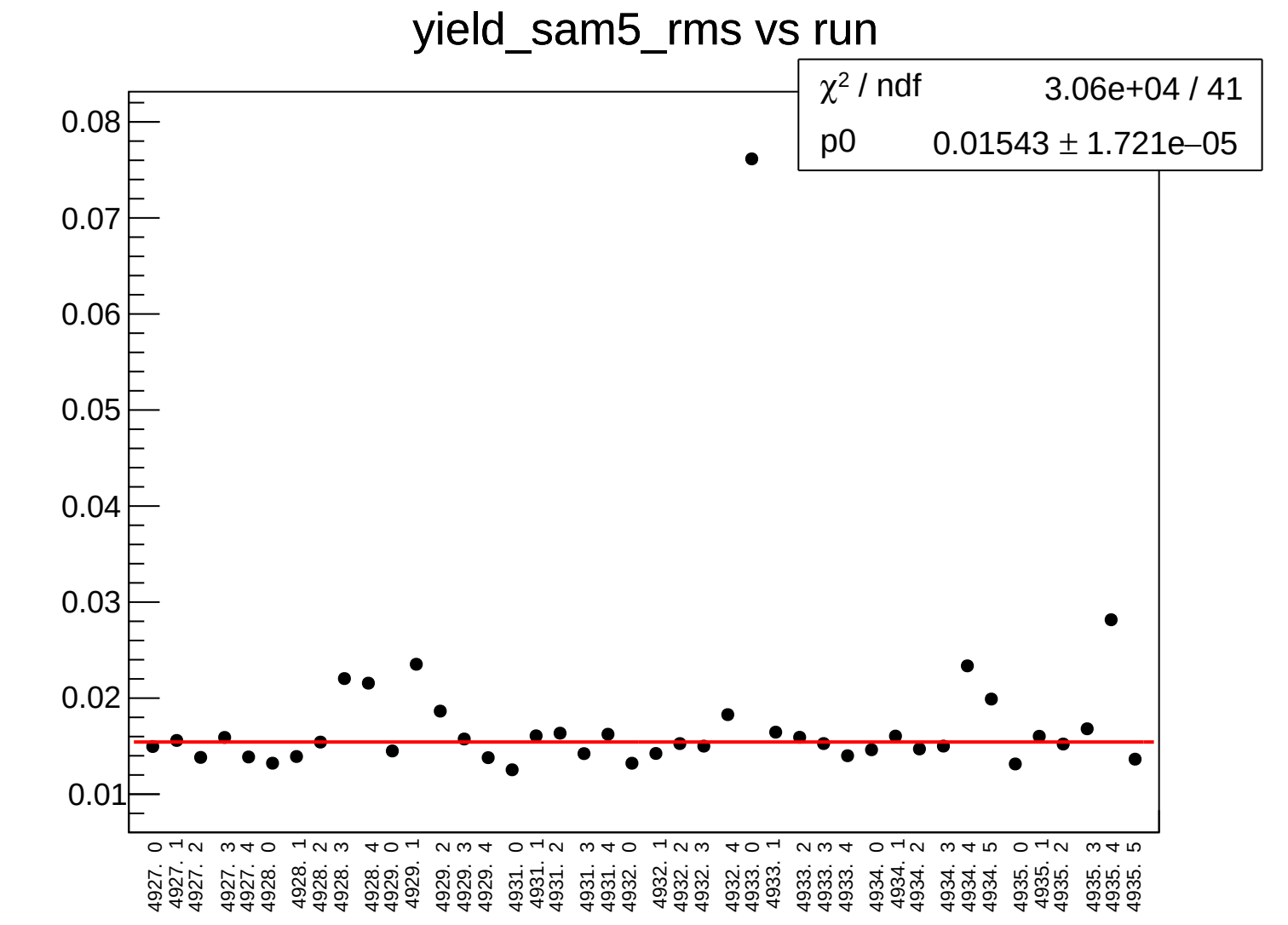

yield_sam3_rms vs run
χ² / ndf 8184 / 41
p0 0.4936 ± 0.000543
0.7
0.65
0.6
0.55
0.5
0.45
0.4
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

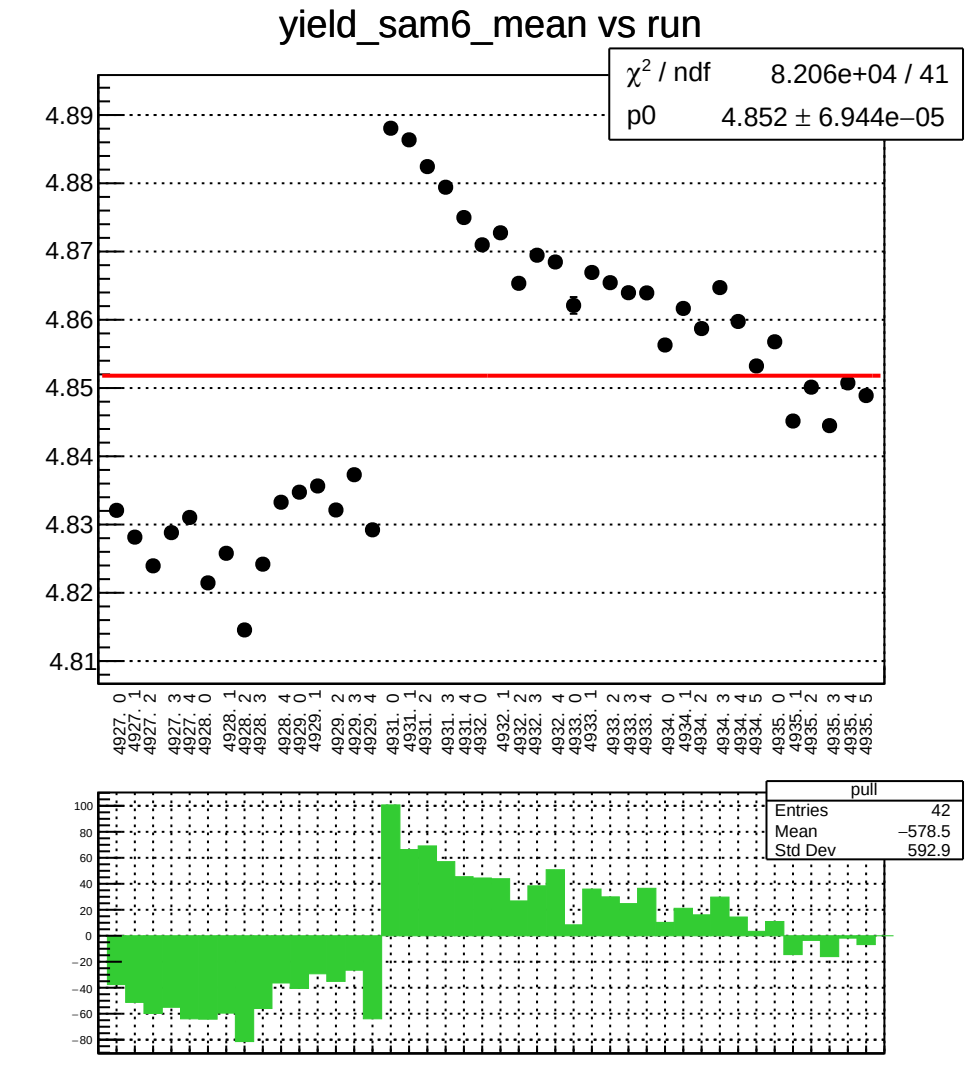

yield_sam4_mean vs run
χ² / ndf 6.674e+05 / 41
p0 16.87 ± 0.0003887
17.4
17.2
17
16.8
16.6
16.4
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −879.9
Std Dev 898.5
250
200
150
100
50
0
−50
−100
−150
pull1D
Entries 42
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

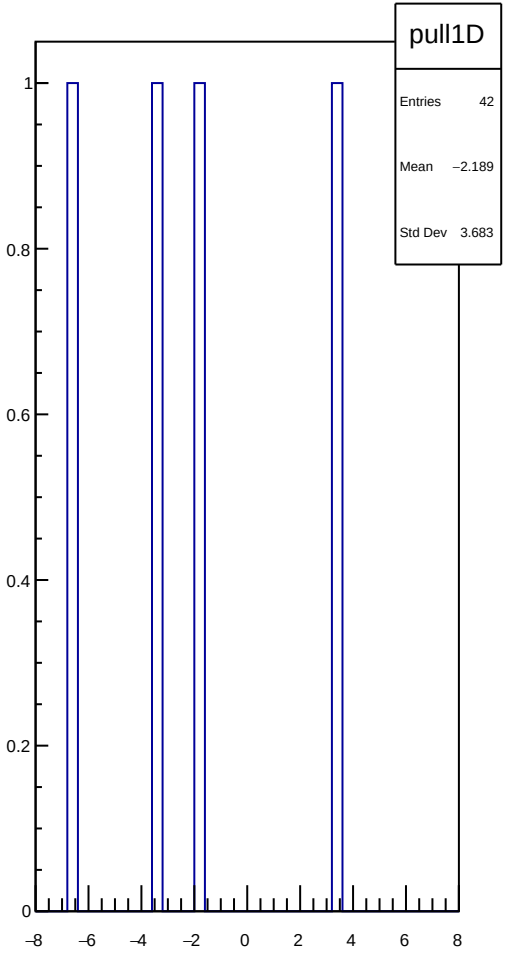

yield_sam4_rms vs run
χ² / ndf 1.126e+04 / 41
p0 0.2494 ± 0.0002748
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

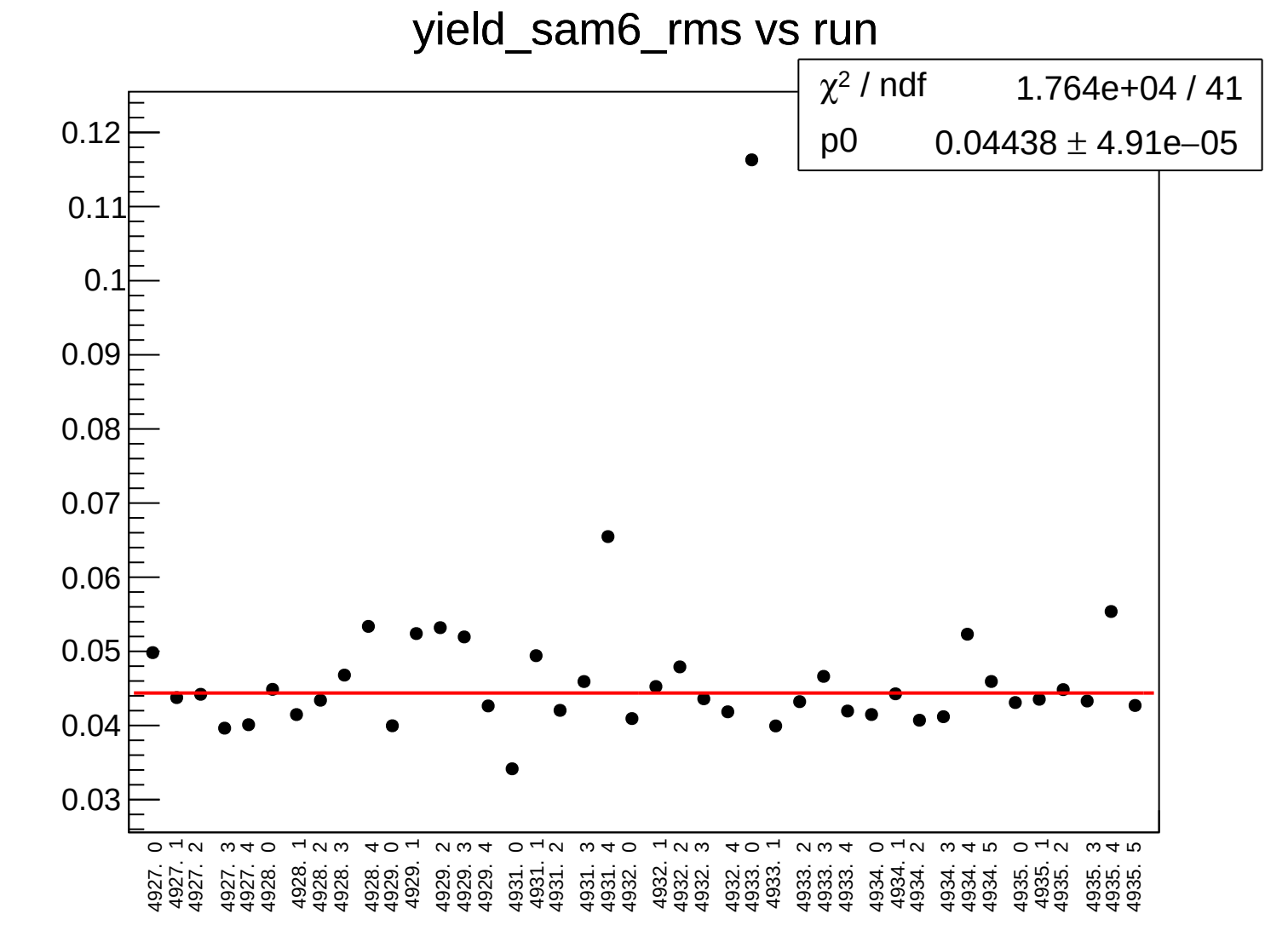

yield_sam5_mean vs run
χ² / ndf 1.874e+06 / 41
p0 3.406 ± 2.434e−05
3.44
3.42
3.4
3.38
3.36
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 7800
Std Dev 7781
300
200
100
0
−100
−200
−300
−400

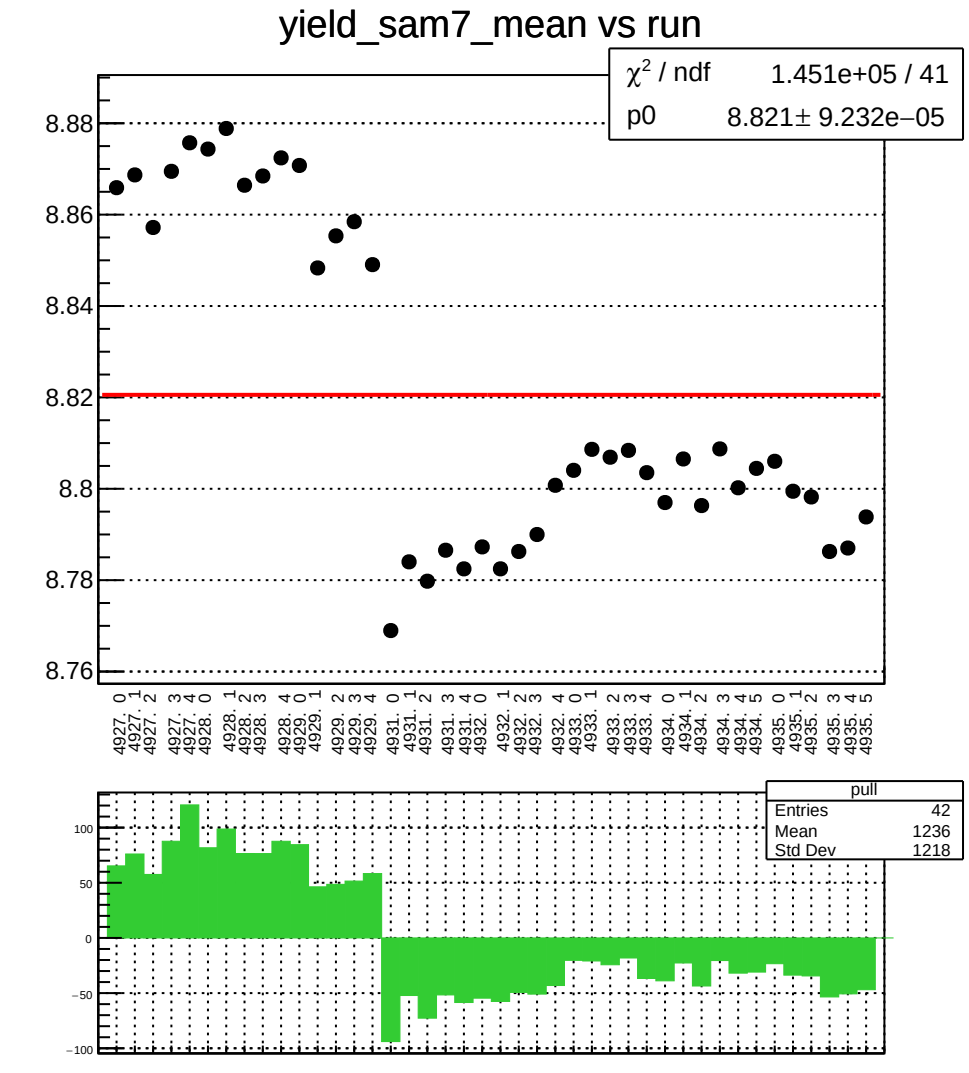

pull1D
Entries 42
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

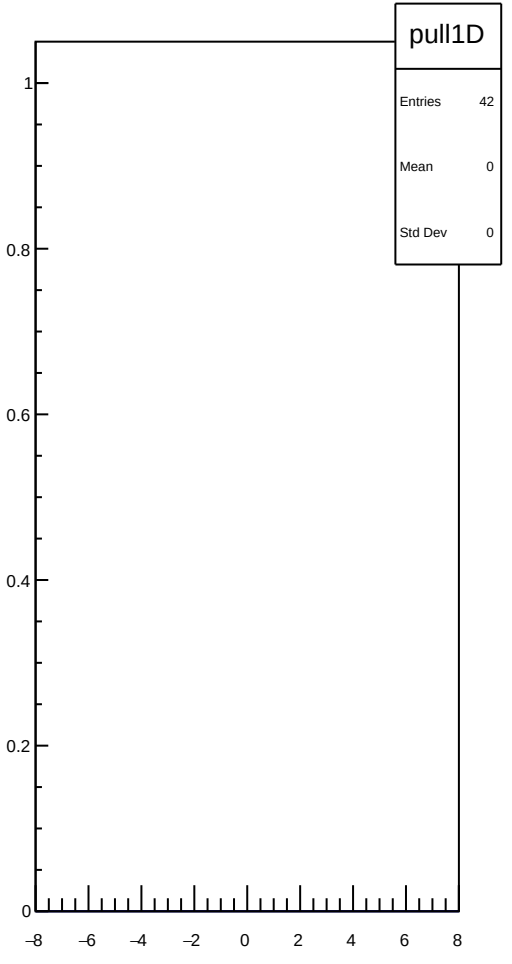

yield_sam5_rms vs run
χ² / ndf 3.06e+04 / 41
p0 0.01543 ± 1.721e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

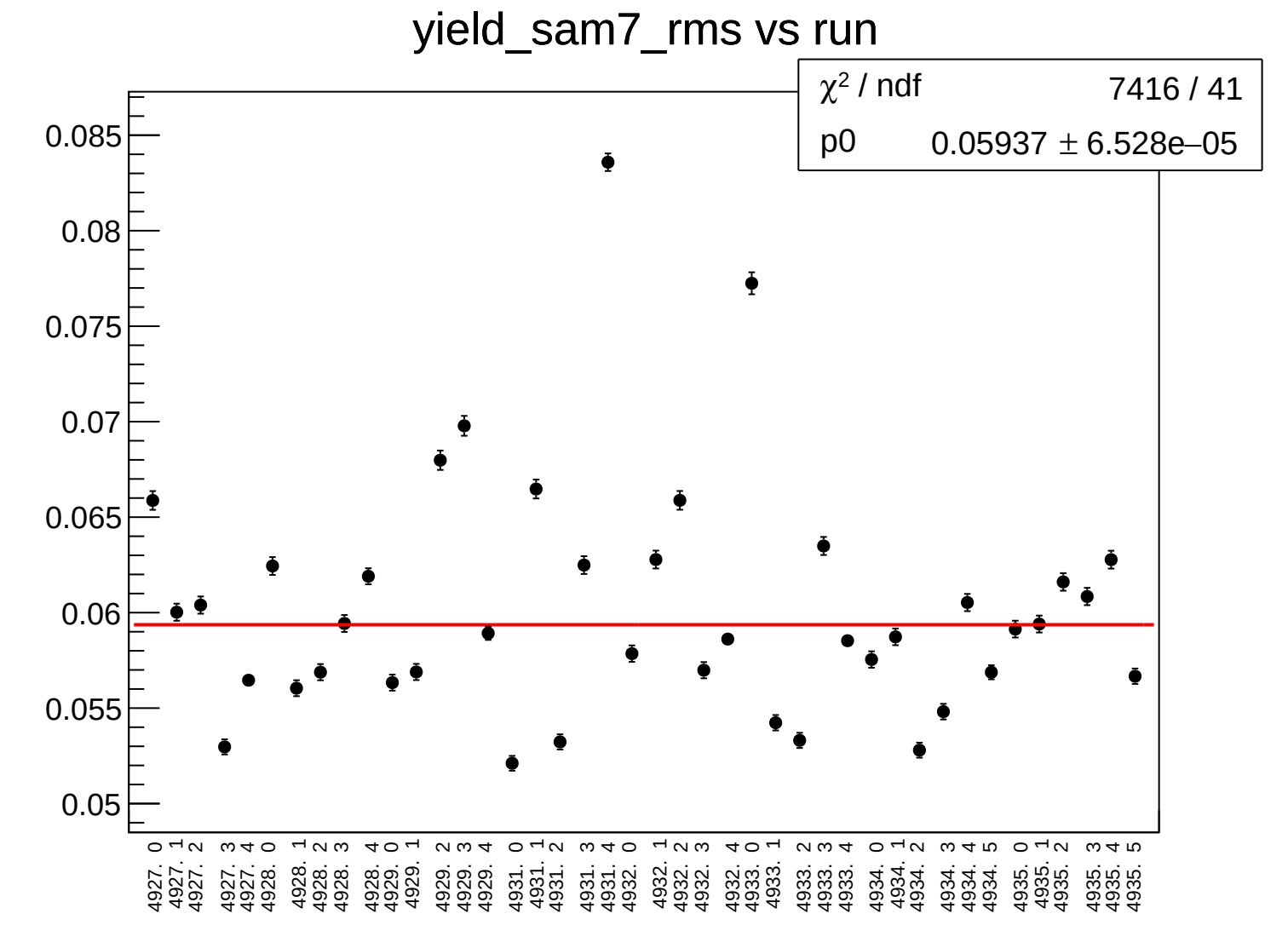

yield_sam6_mean vs run
χ² / ndf 8.206e+04 / 41
p0 4.852 ± 6.944e−05
4.89
4.88
4.87
4.86
4.85
4.84
4.83
4.82
4.81
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −578.5
Std Dev 592.9
100
80
60
40
20
0
−20
−40
−60
−80

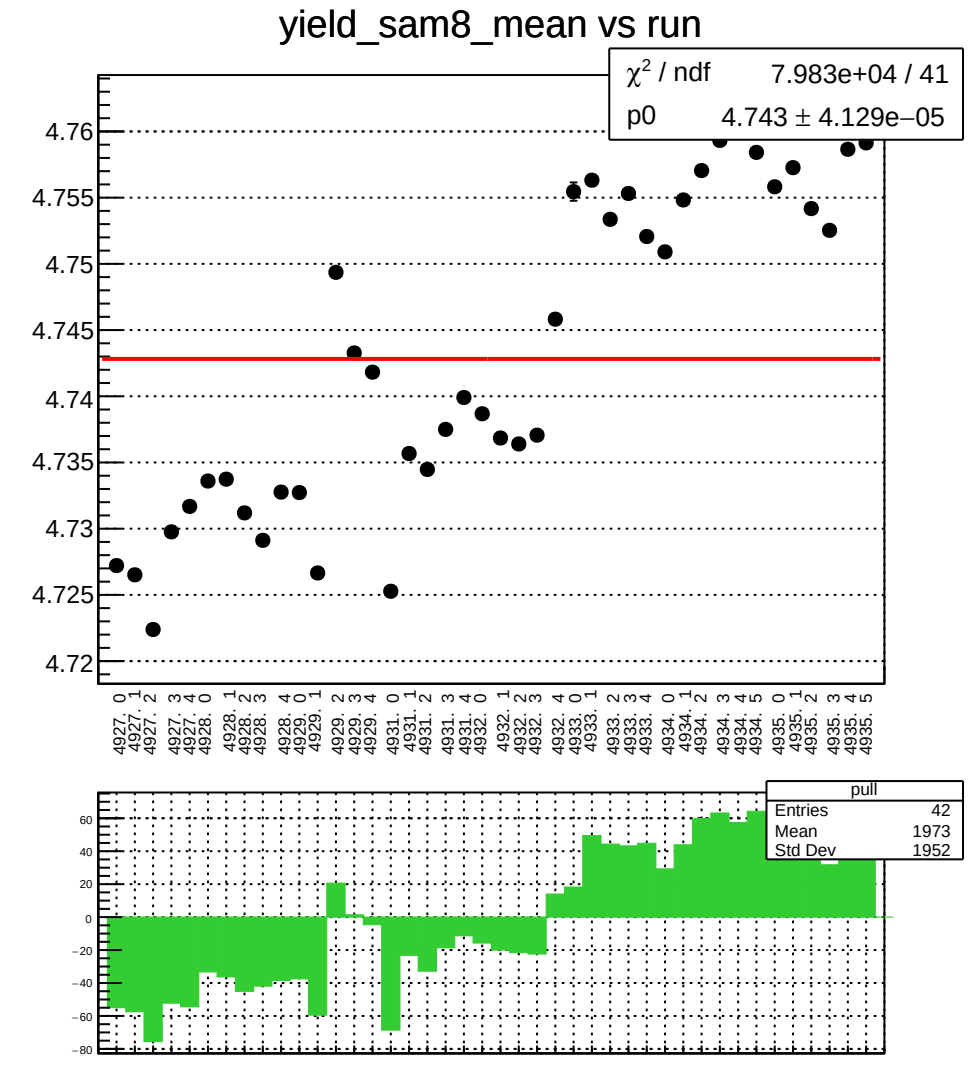

pull1D
Entries 42
Mean −2.189
Std Dev 3.683
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

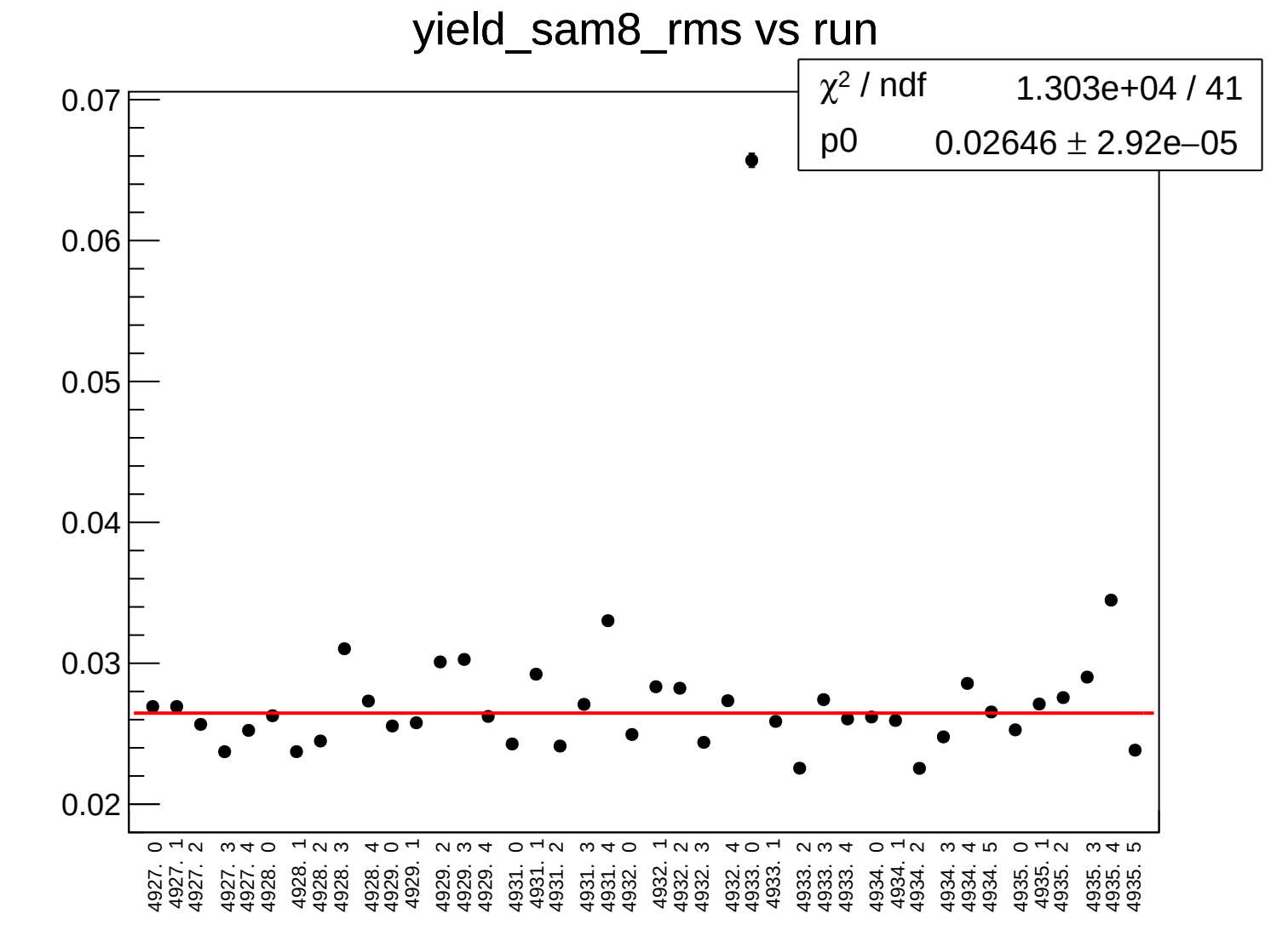

yield_sam6_rms vs run
χ² / ndf 1.764e+04 / 41
p0 0.04438 ± 4.91e−05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

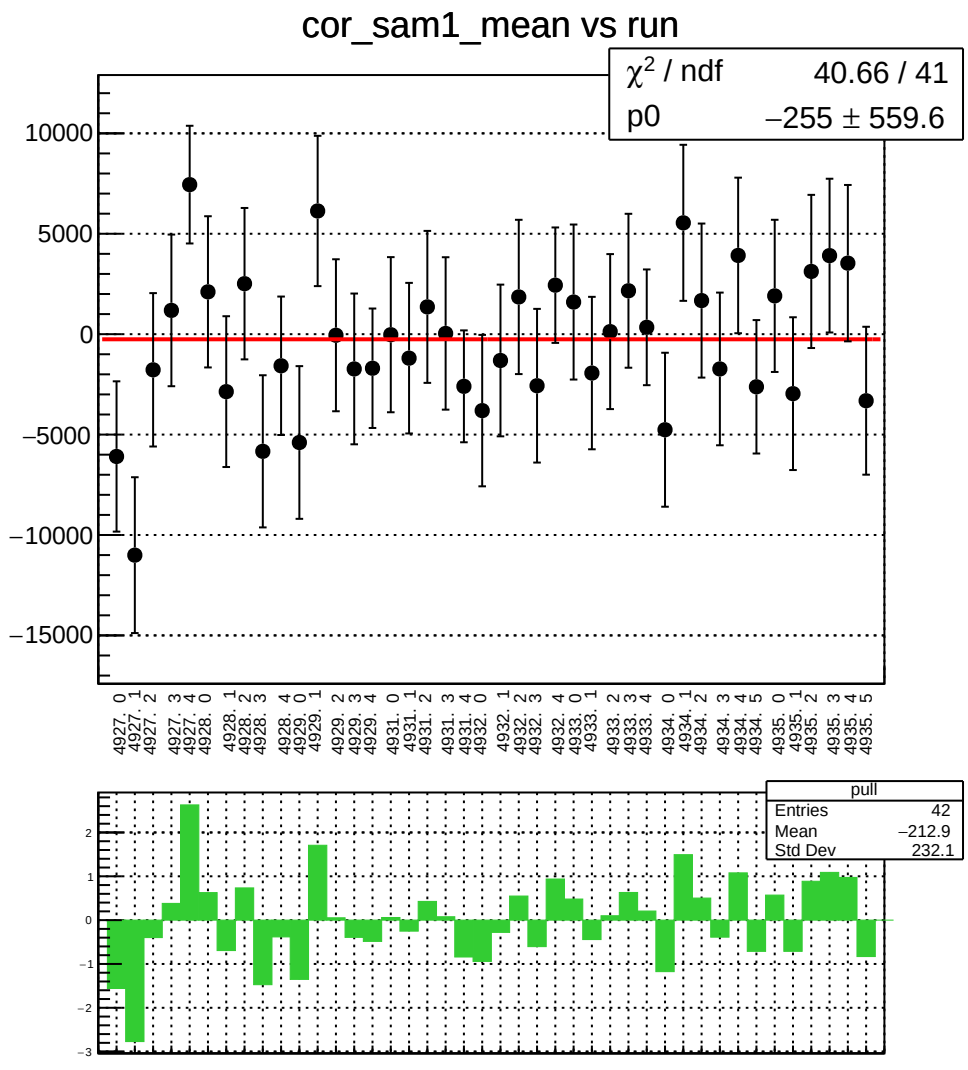

yield_sam7_mean vs run
χ² / ndf 1.451e+05 / 41
p0 8.821± 9.232e−05
8.88
8.86
8.84
8.82
8.8
8.78
8.76
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 1236
Std Dev 1218
100
50
0
−50
−100

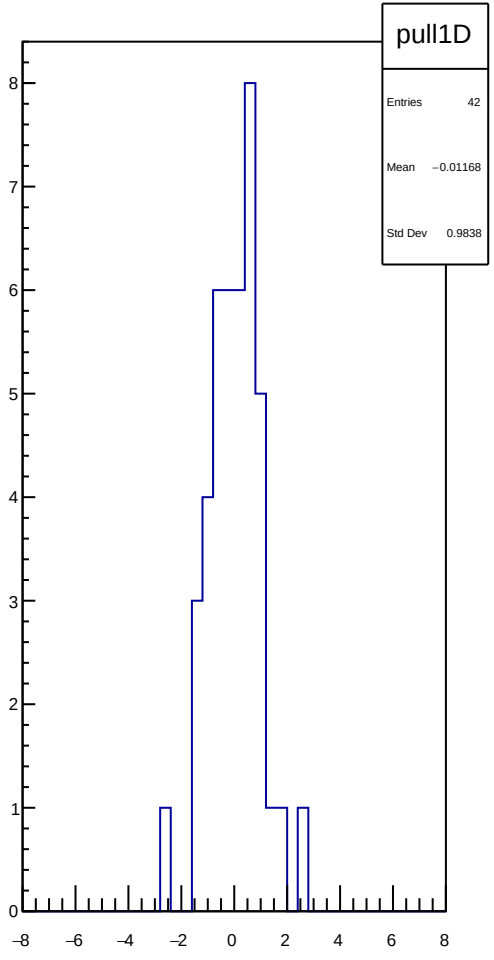

pull1D
Entries 42
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

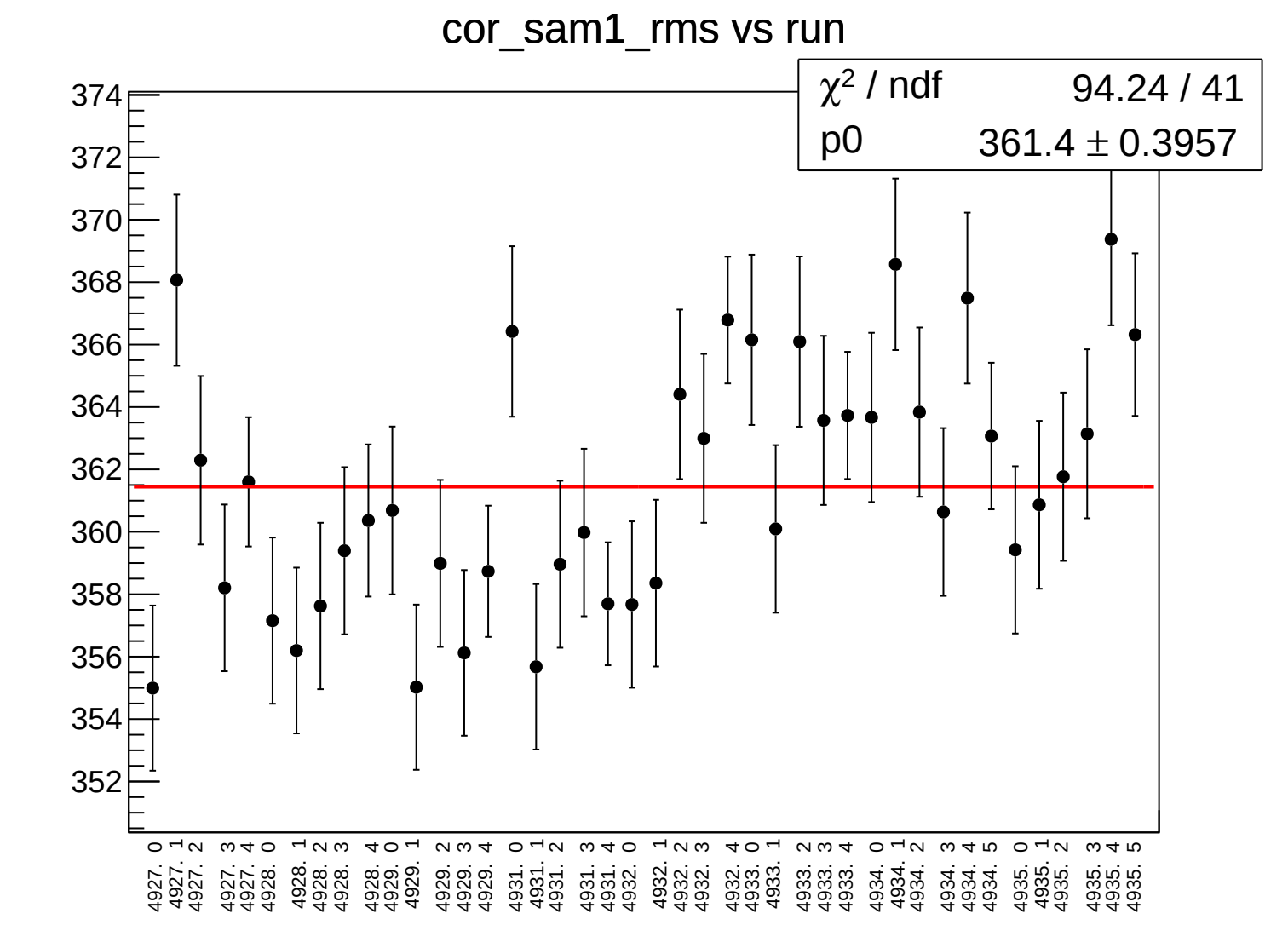

yield_sam7_rms vs run
χ² / ndf 7416 / 41
p0 0.05937 ± 6.528e–05
0.085
0.08
0.075
0.07
0.065
0.06
0.055
0.05
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

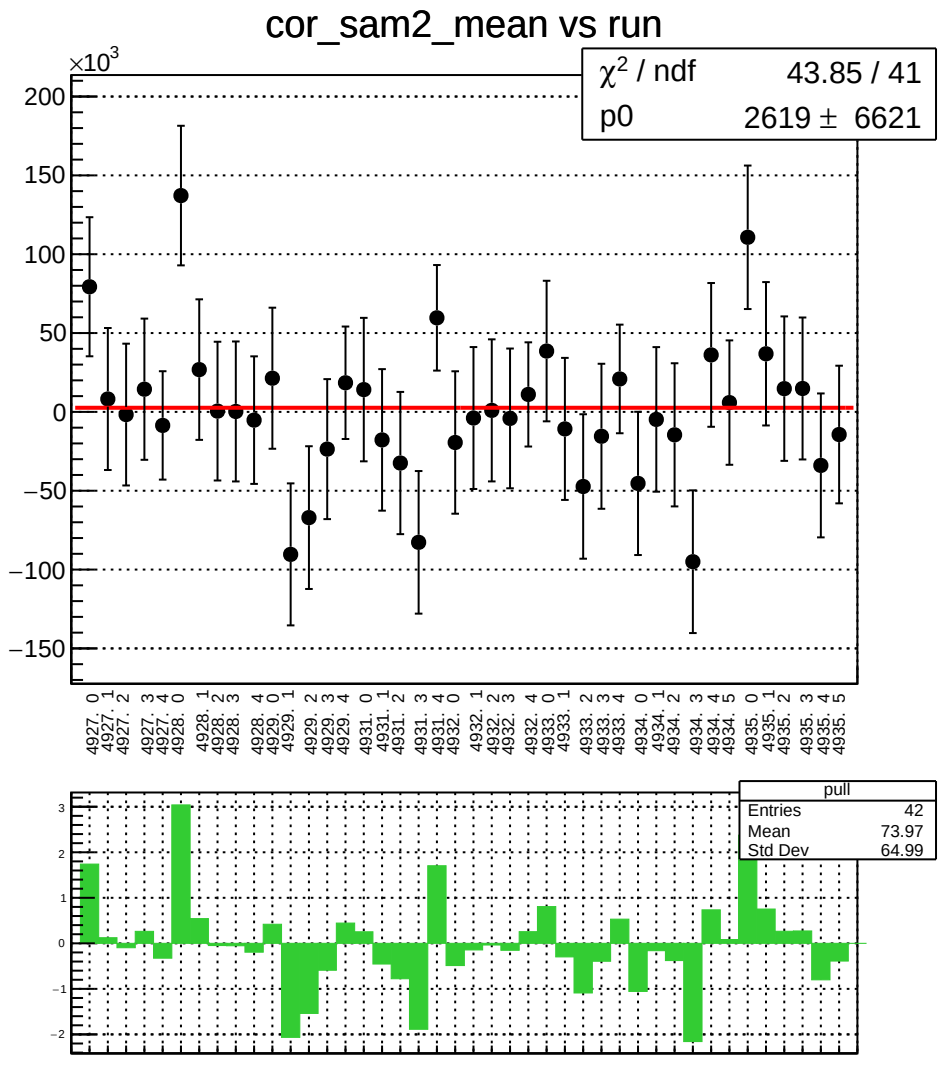

yield_sam8_mean vs run
χ² / ndf 7.983e+04 / 41
p0 4.743 ± 4.129e−05
4.76
4.755
4.75
4.745
4.74
4.735
4.73
4.725
4.72
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 1973
Std Dev 1952
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 42
Mean −1.595
Std Dev 3.003
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

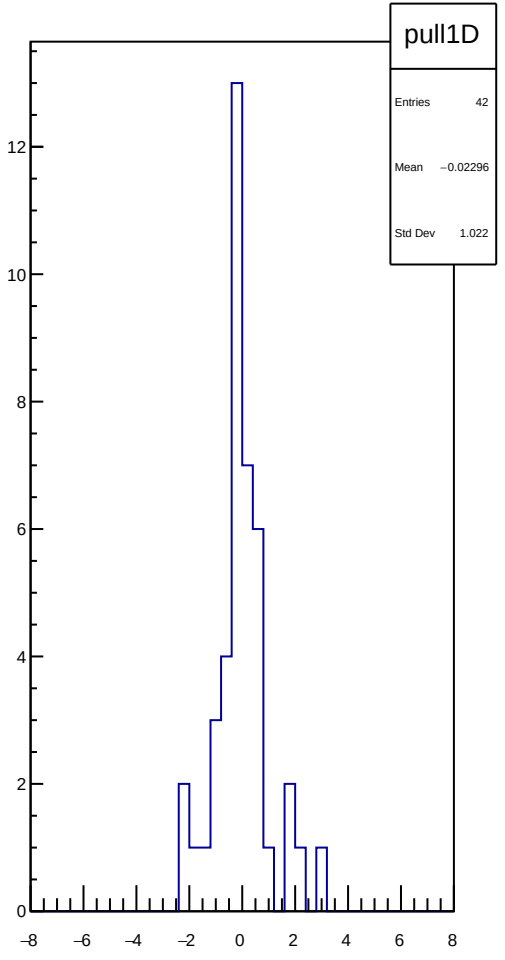

yield_sam8_rms vs run
χ² / ndf 1.303e+04 / 41
p0 0.02646 ± 2.92e−05
0.07
0.06
0.05
0.04
0.03
0.02
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

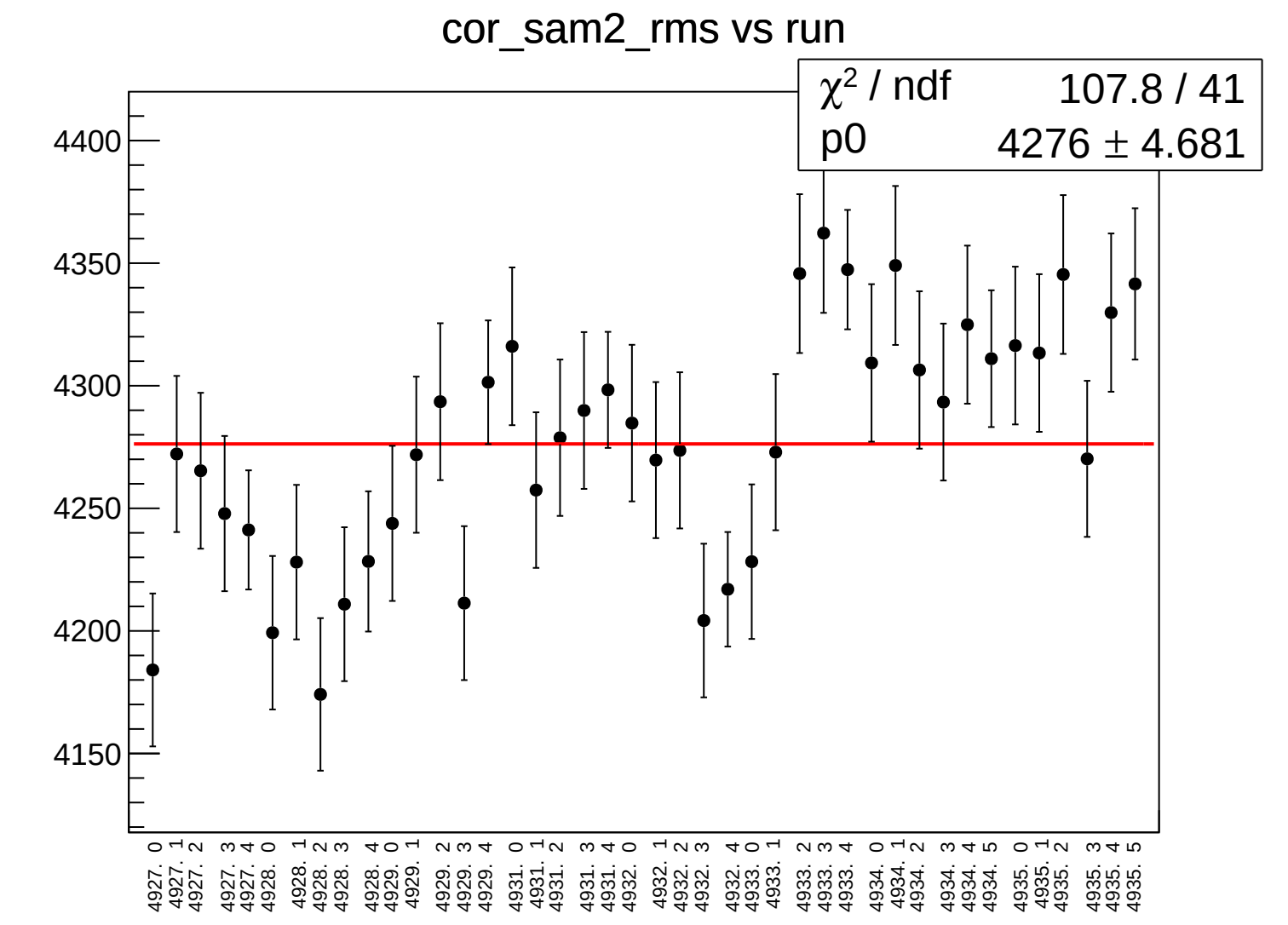

cor_sam1_mean vs run
χ² / ndf 40.66 / 41
p0 −255 ± 559.6
10000
5000
0
−5000
−10000
−15000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −212.9
Std Dev 232.1
2
1
0
−1
−2
−3

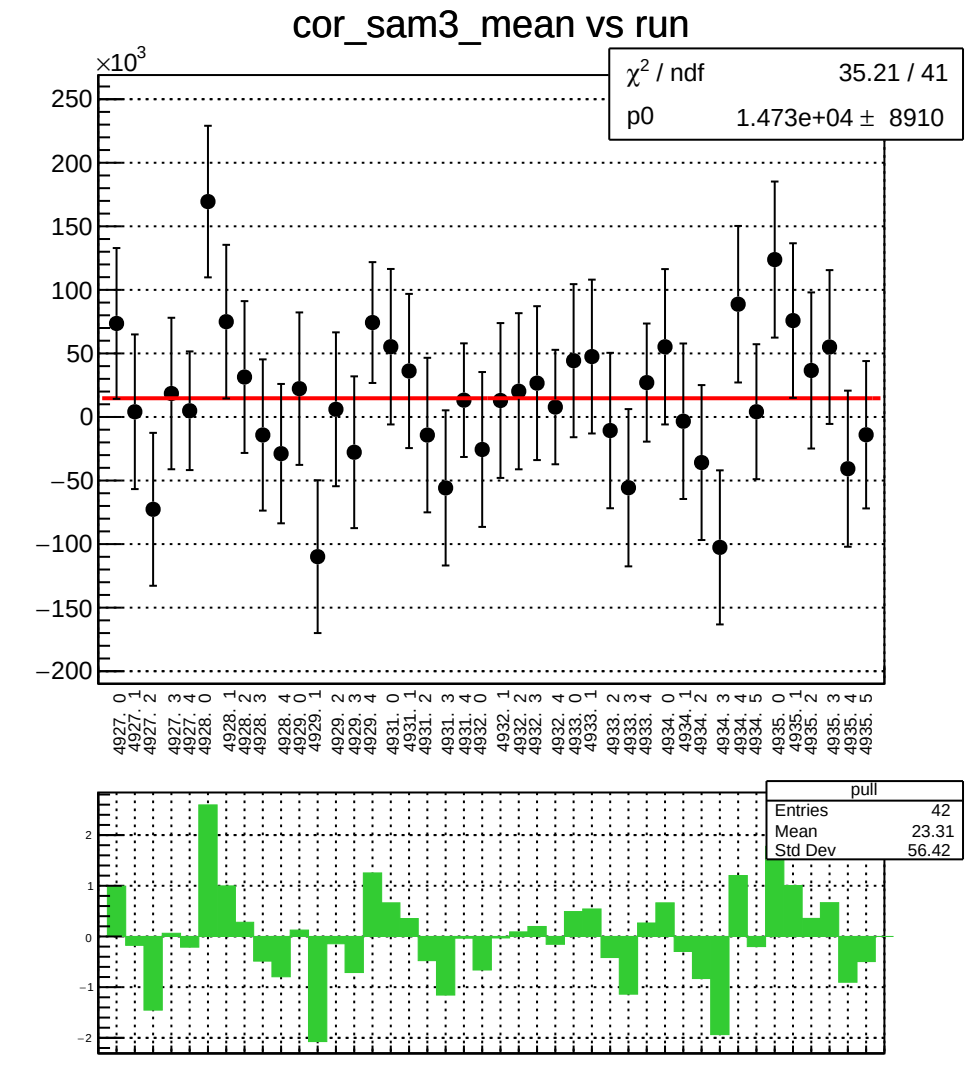

pull1D
Entries 42
Mean −0.01168
Std Dev 0.9838
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

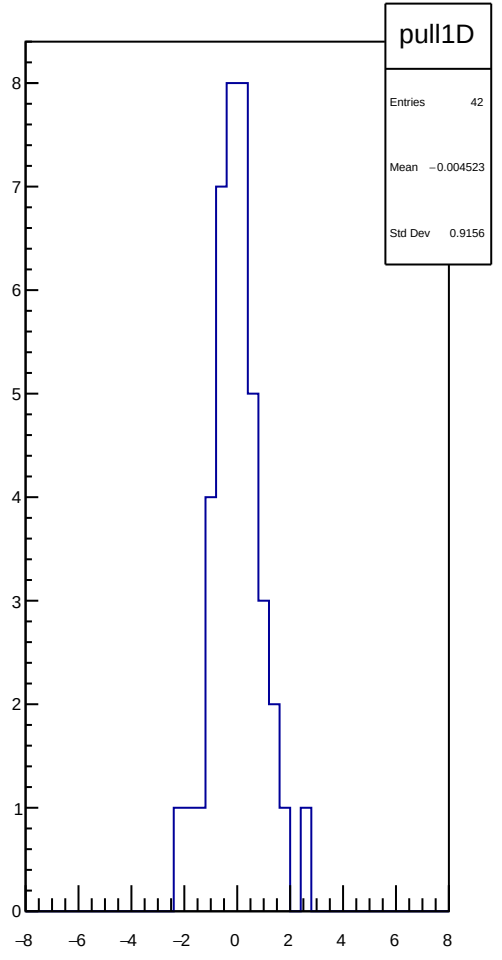

cor_sam1_rms vs run
χ² / ndf 94.24 / 41
p0 361.4 ± 0.3957
374
372
370
368
366
364
362
360
358
356
354
352
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

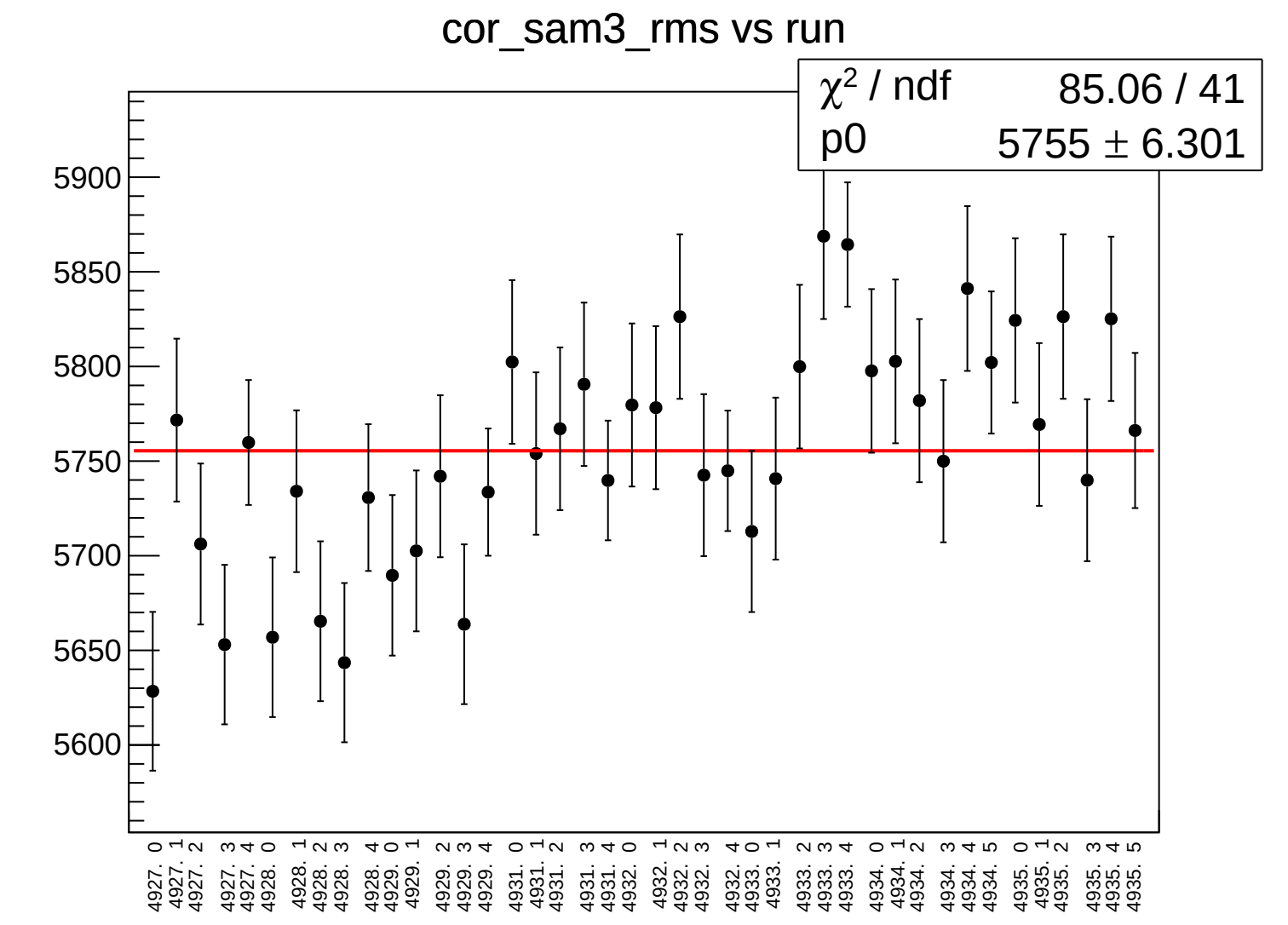

cor_sam2_mean vs run
×10^3
χ^2 / ndf 43.85 / 41
p0 2619 ± 6621
200
150
100
50
0
−50
−100
−150
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 73.97
Std Dev 64.99
3
2
1
0
−1
−2

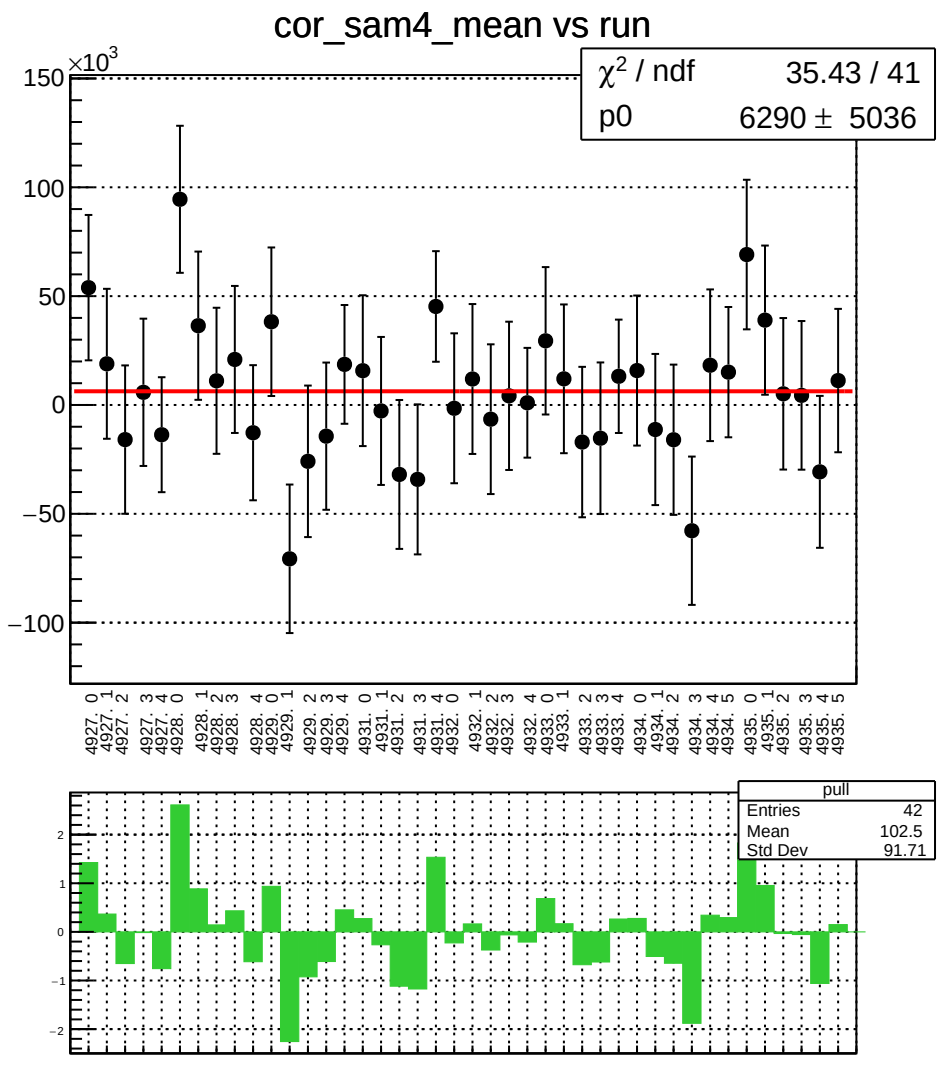

pull1D
Entries 42
Mean −0.02296
Std Dev 1.022
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

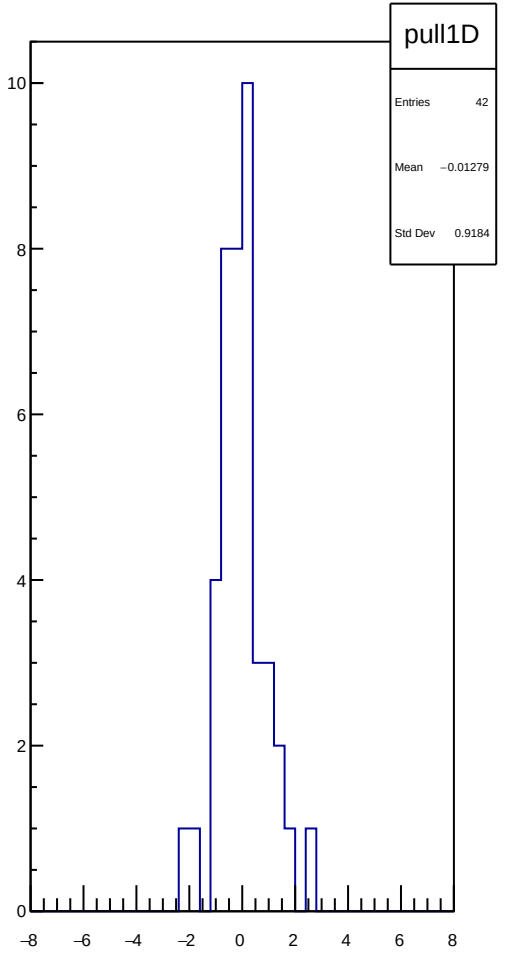

cor_sam2_rms vs run
χ² / ndf 107.8 / 41
p0 4276 ± 4.681
4400
4350
4300
4250
4200
4150
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

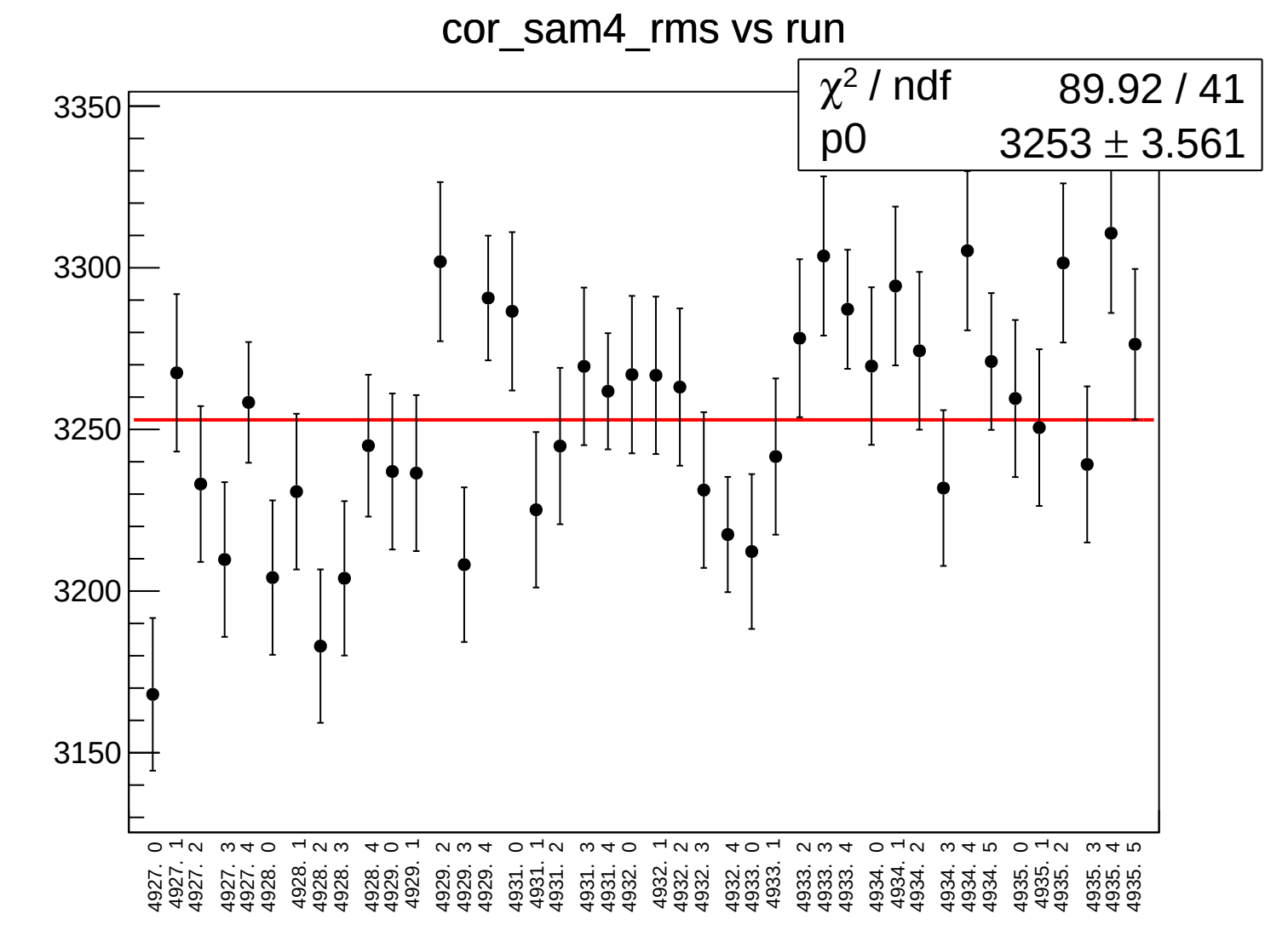

cor_sam3_mean vs run
×10^3
χ² / ndf 35.21 / 41
p0 1.473e+04 ± 8910
250
200
150
100
50
0
−50
−100
−150
−200
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 23.31
Std Dev 56.42
2
1
0
−1
−2

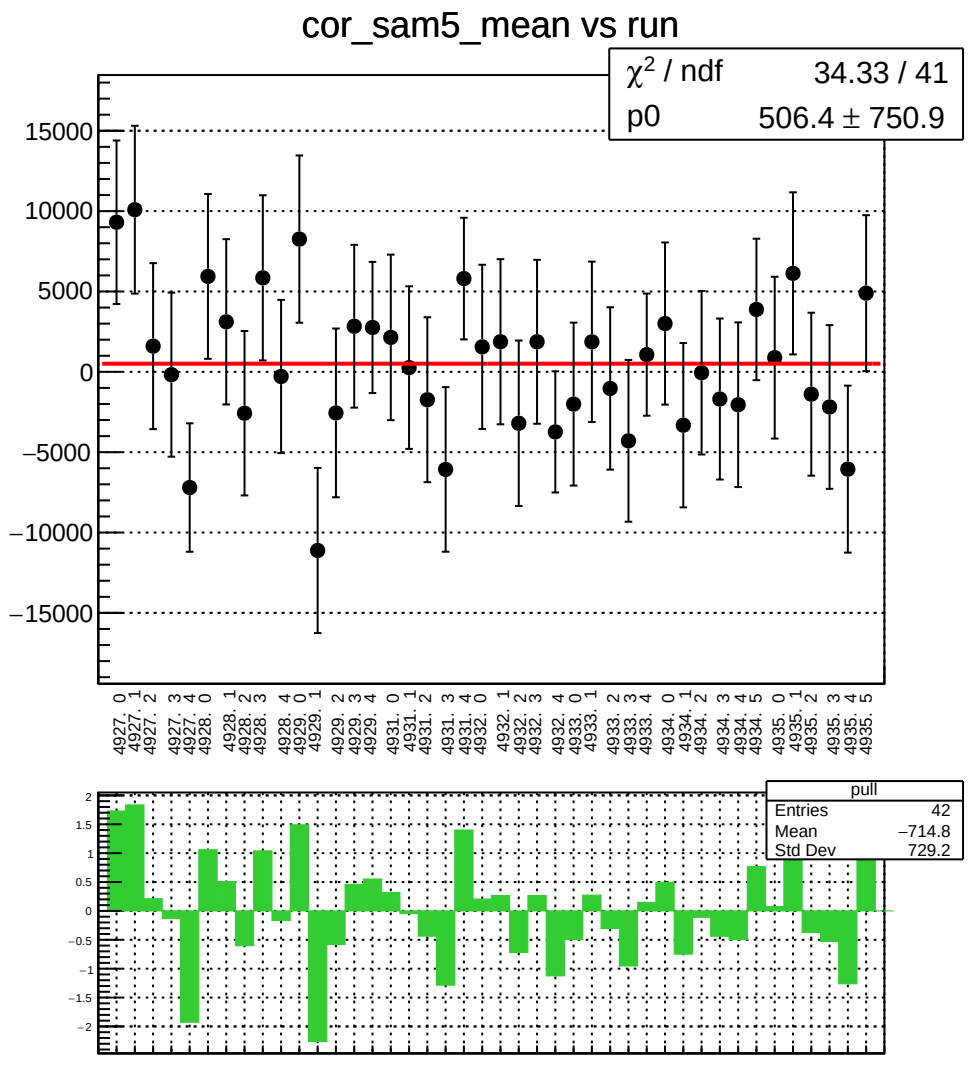

pull1D
Entries 42
Mean −0.004523
Std Dev 0.9156
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

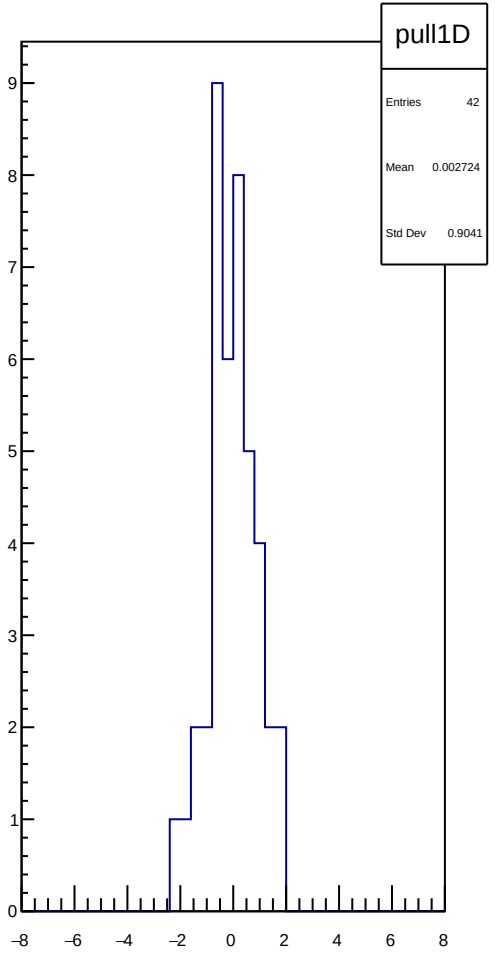

cor_sam3_rms vs run
χ² / ndf 85.06 / 41
p0 5755 ± 6.301
5900
5850
5800
5750
5700
5650
5600
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

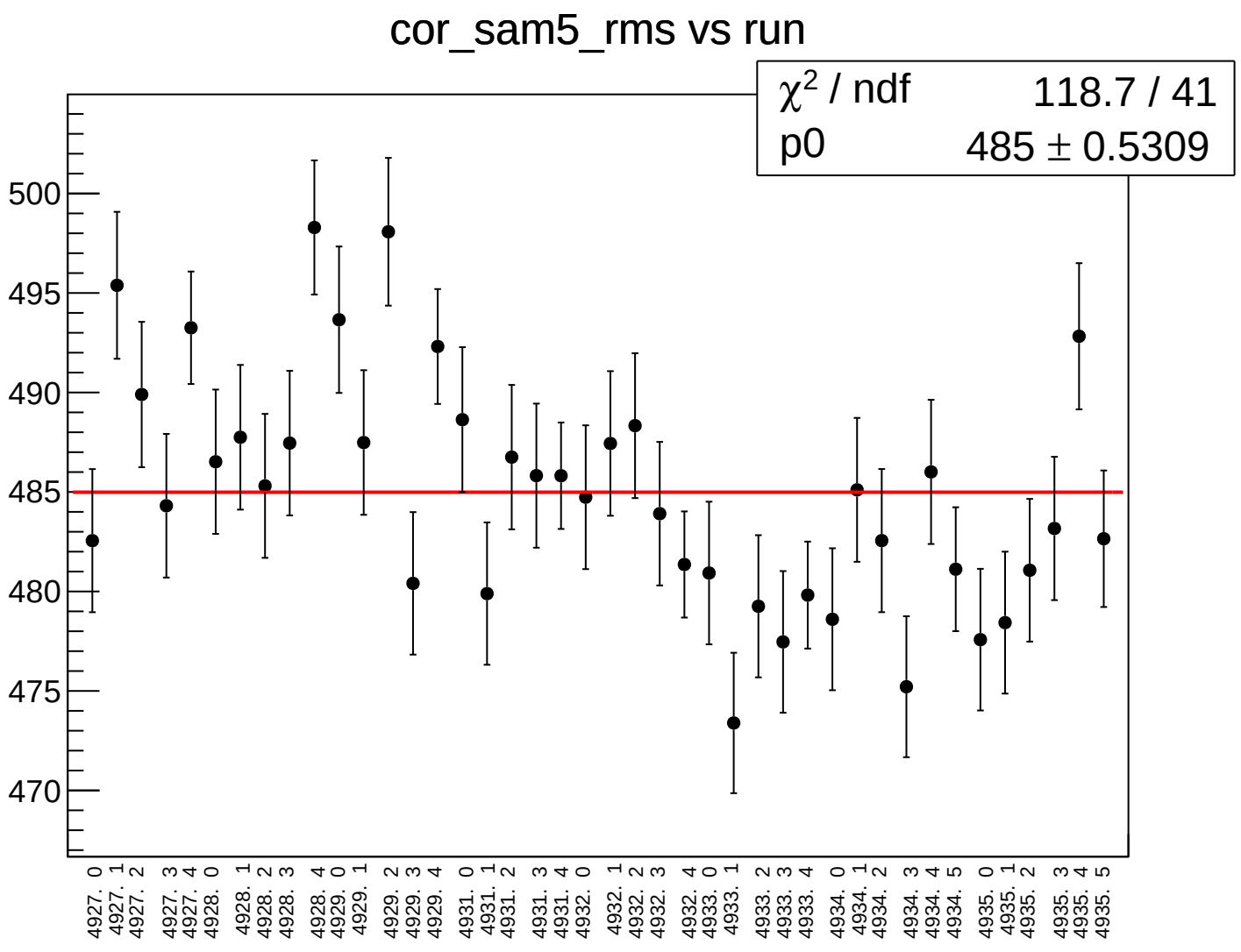

cor_sam4_mean vs run
χ² / ndf 35.43 / 41
p0 6290 ± 5036
×10³
150
100
50
0
−50
−100
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 102.5
Std Dev 91.71
2
1
0
−1
−2

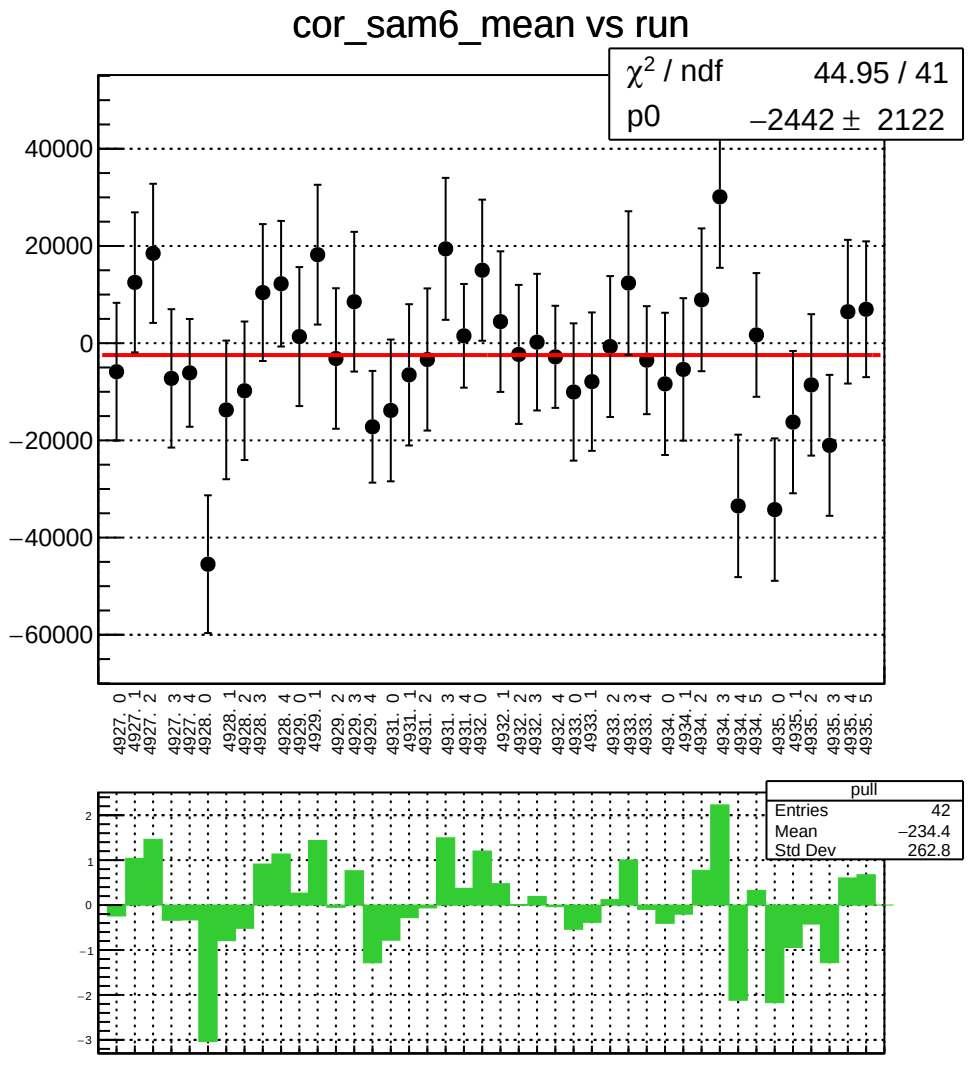

pull1D
Entries 42
Mean −0.01279
Std Dev 0.9184
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

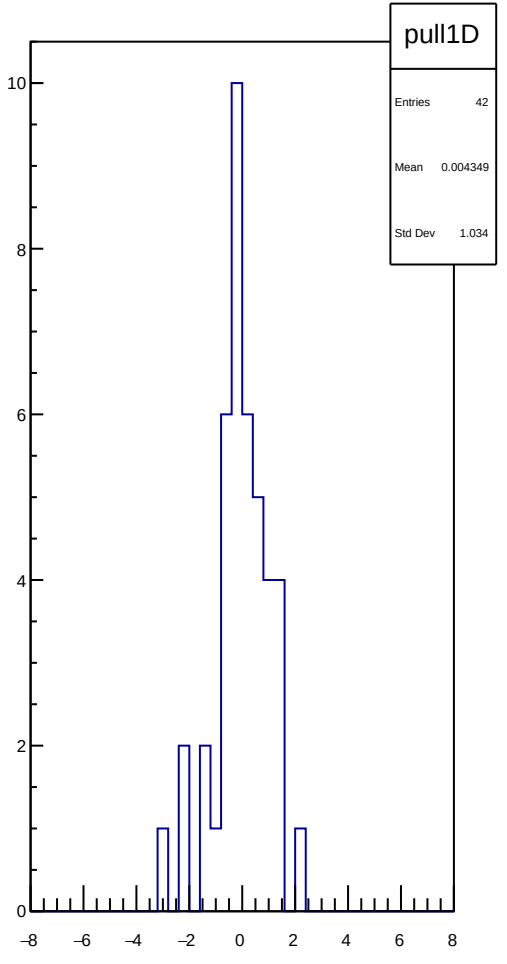

cor_sam4_rms vs run
χ² / ndf 89.92 / 41
p0 3253 ± 3.561
3350
3300
3250
3200
3150
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

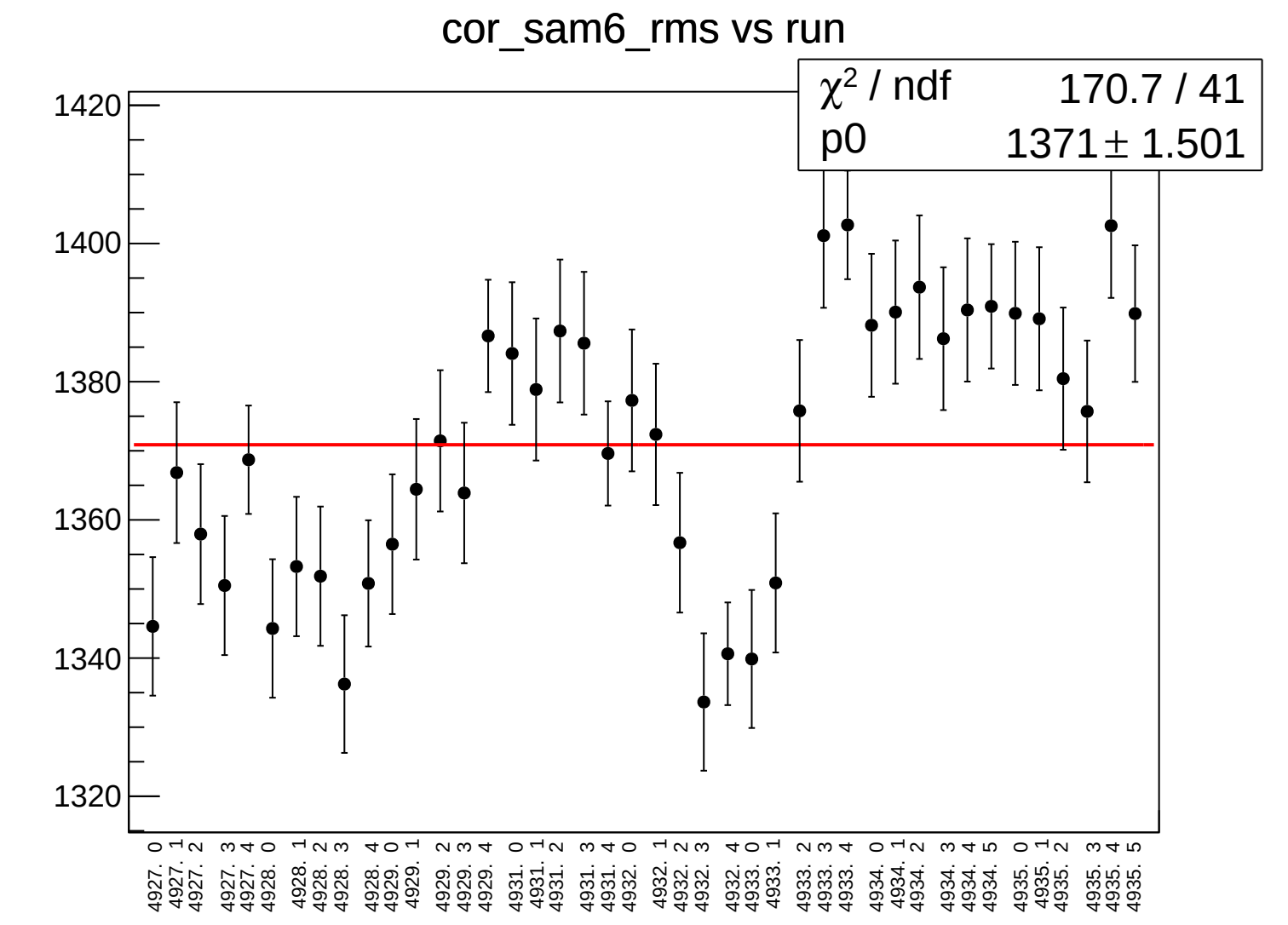

cor_sam5_mean vs run
χ² / ndf 34.33 / 41
p0 506.4 ± 750.9
15000
10000
5000
0
−5000
−10000
−15000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −714.8
Std Dev 729.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

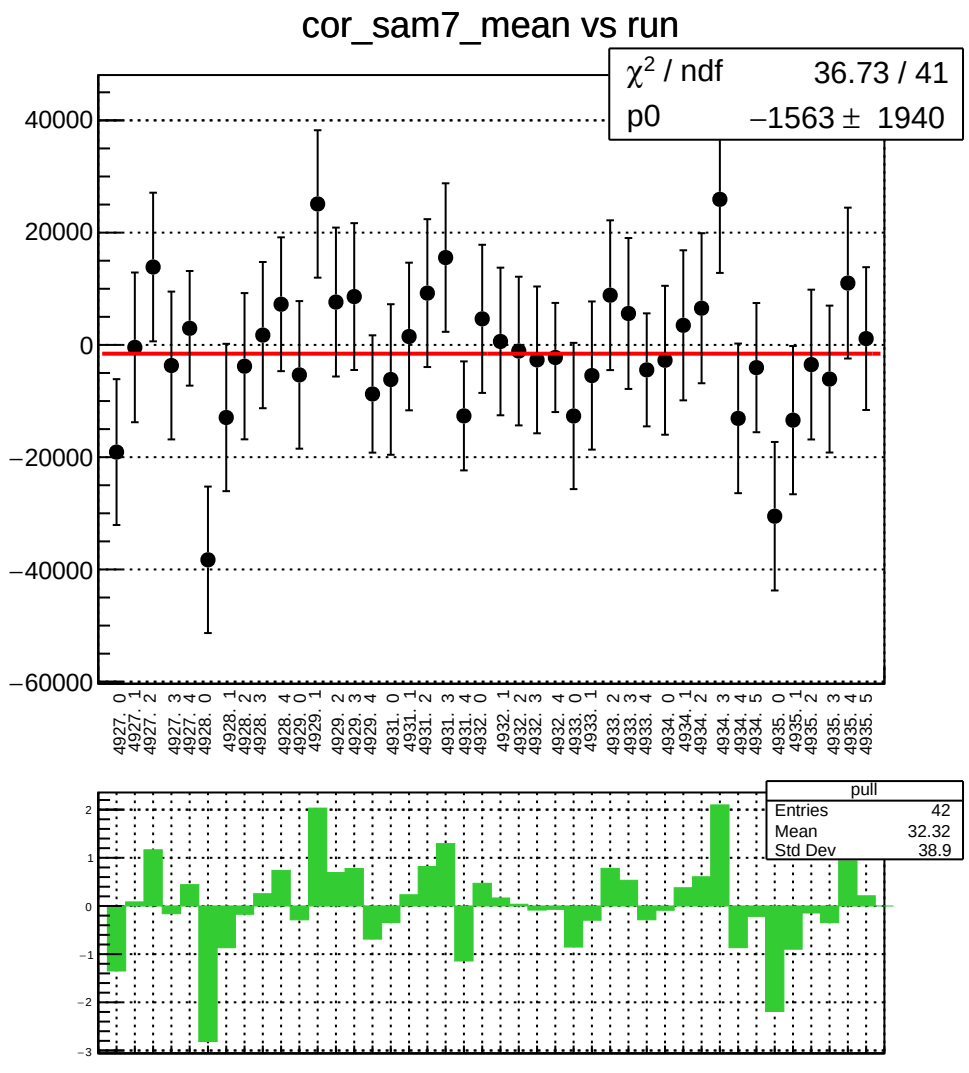

pull1D
Entries 42
Mean 0.002724
Std Dev 0.9041
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

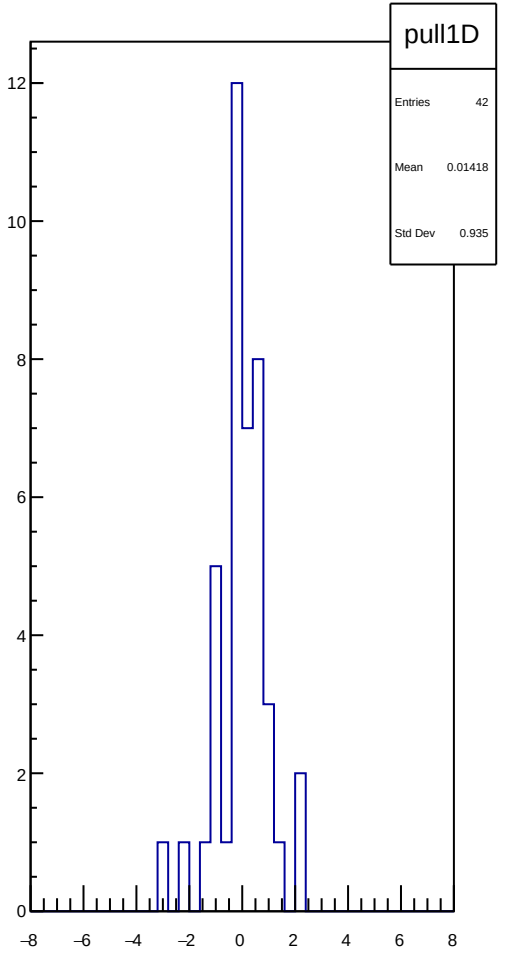

cor_sam5_rms vs run
χ² / ndf 118.7 / 41
p0 485 ± 0.5309
500
495
490
485
480
475
470
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

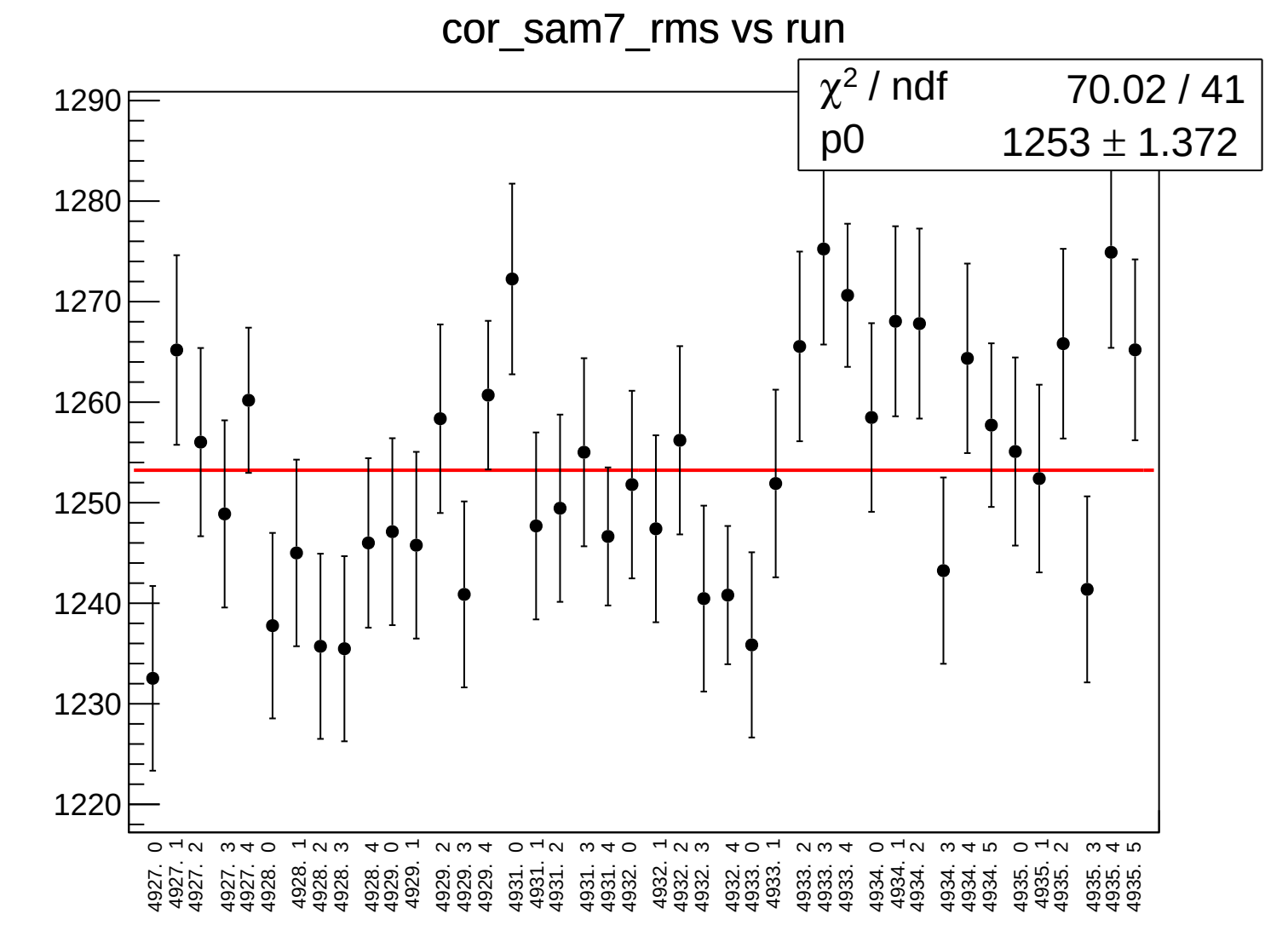

cor_sam6_mean vs run
χ² / ndf 44.95 / 41
p0 −2442 ± 2122
40000
20000
0
−20000
−40000
−60000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −234.4
Std Dev 262.8
2
1
0
−1
−2
−3

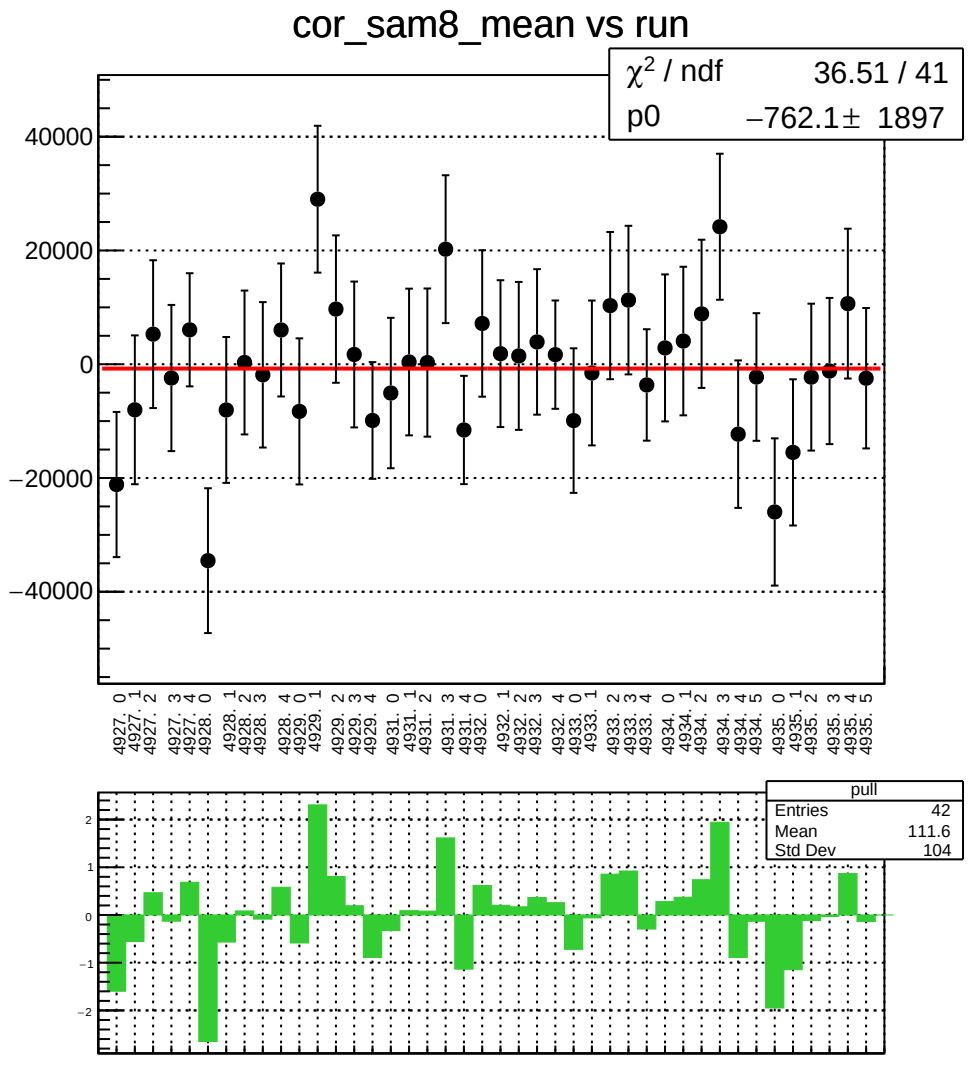

pull1D
Entries 42
Mean 0.004349
Std Dev 1.034
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

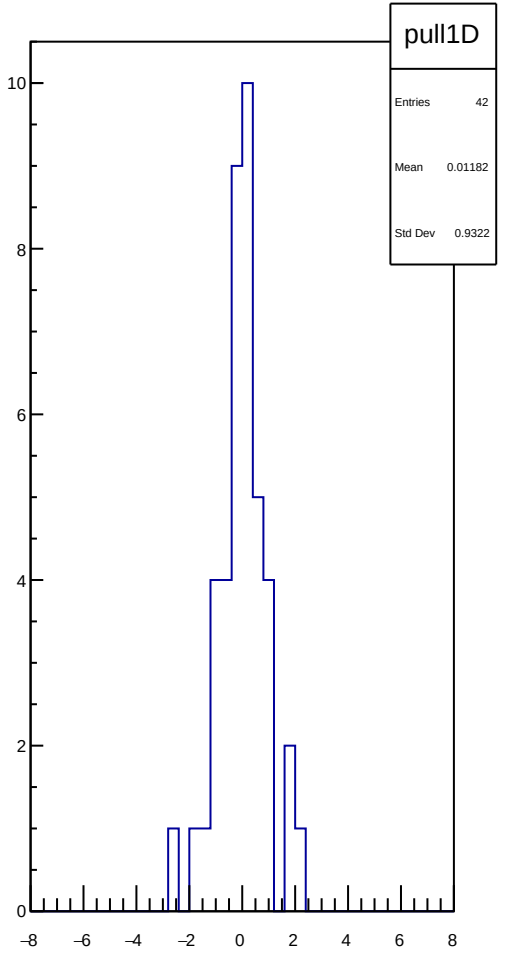

cor_sam6_rms vs run
χ² / ndf 170.7 / 41
p0 1371 ± 1.501
1420
1400
1380
1360
1340
1320
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

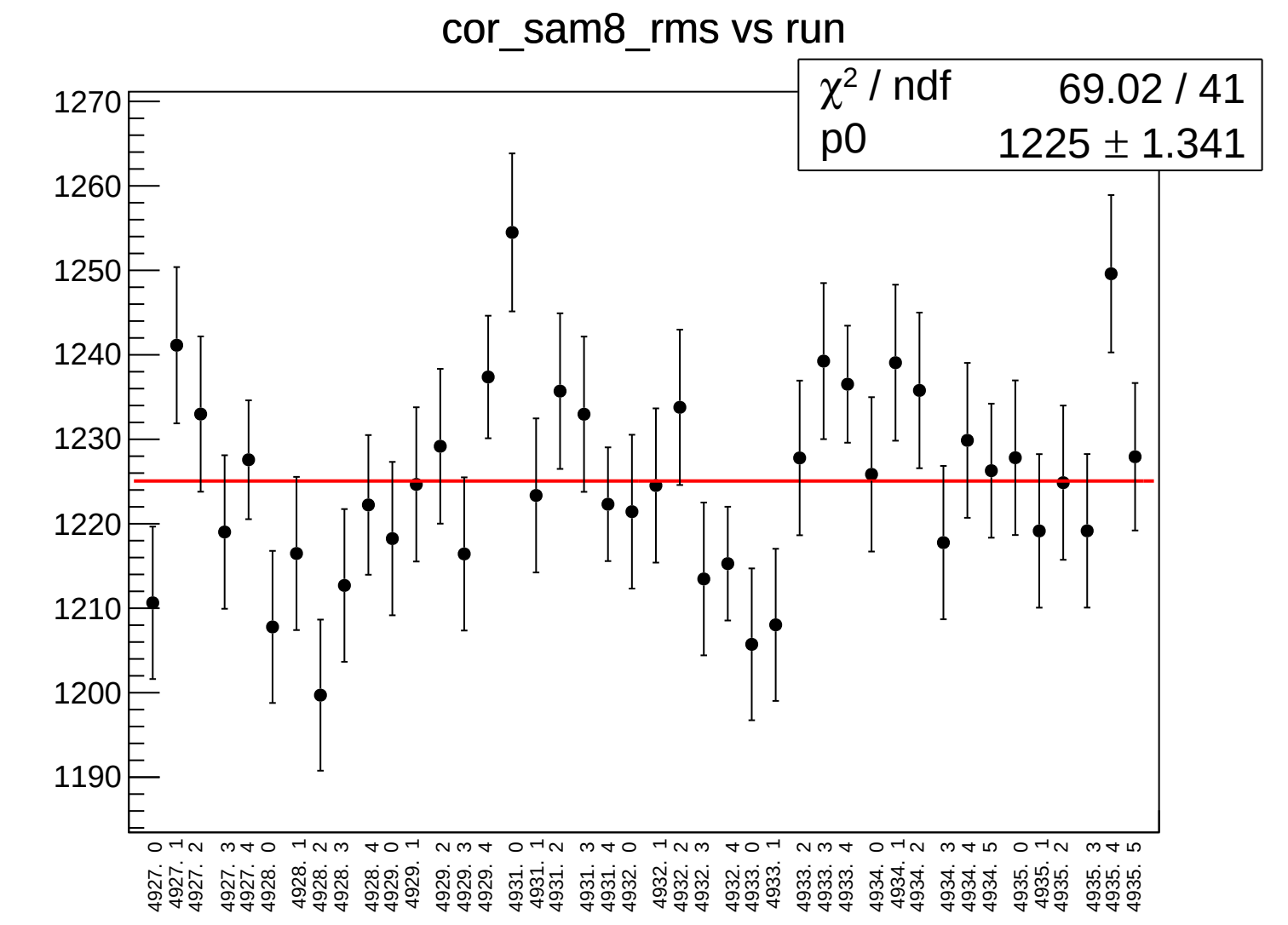

cor_sam7_mean vs run
χ² / ndf 36.73 / 41
p0 −1563 ± 1940
40000
20000
0
−20000
−40000
−60000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 32.32
Std Dev 38.9
2
1
0
−1
−2
−3

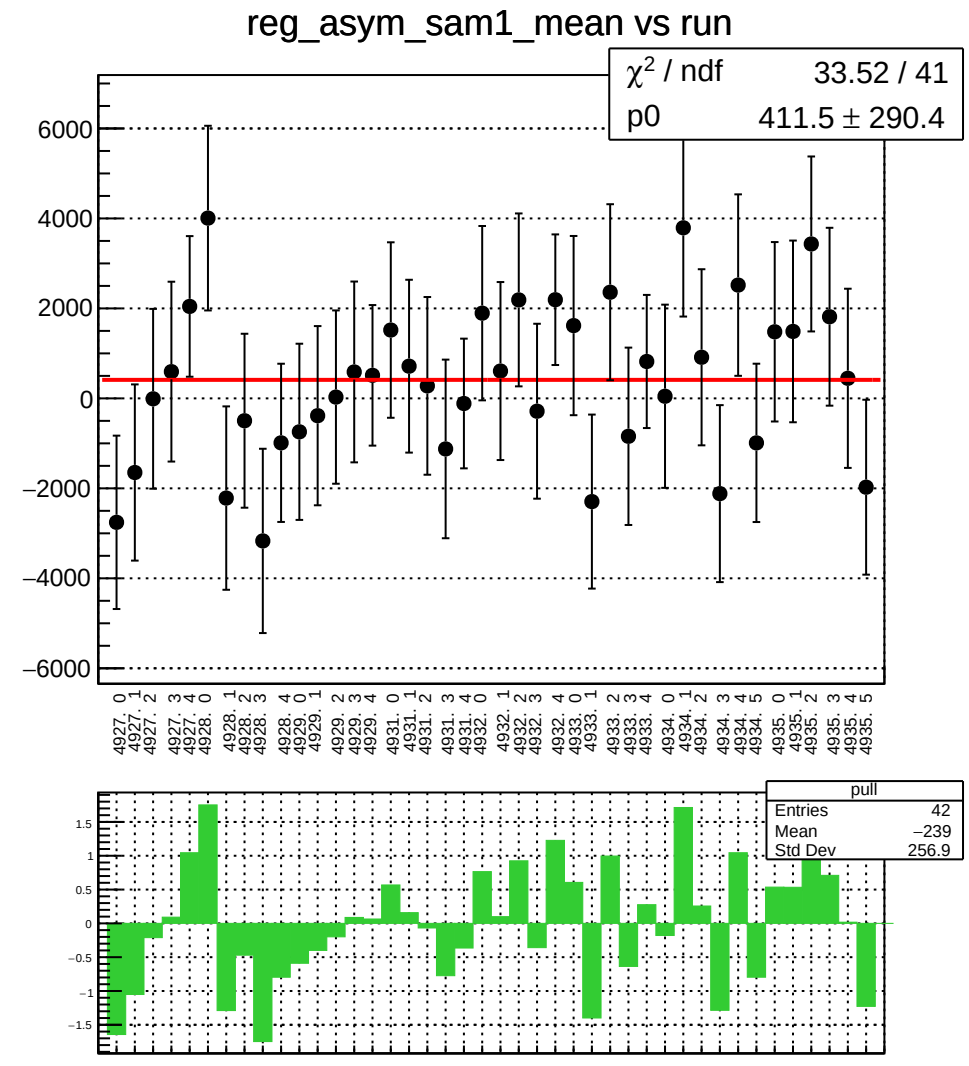

pull1D
Entries 42
Mean 0.01418
Std Dev 0.935
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

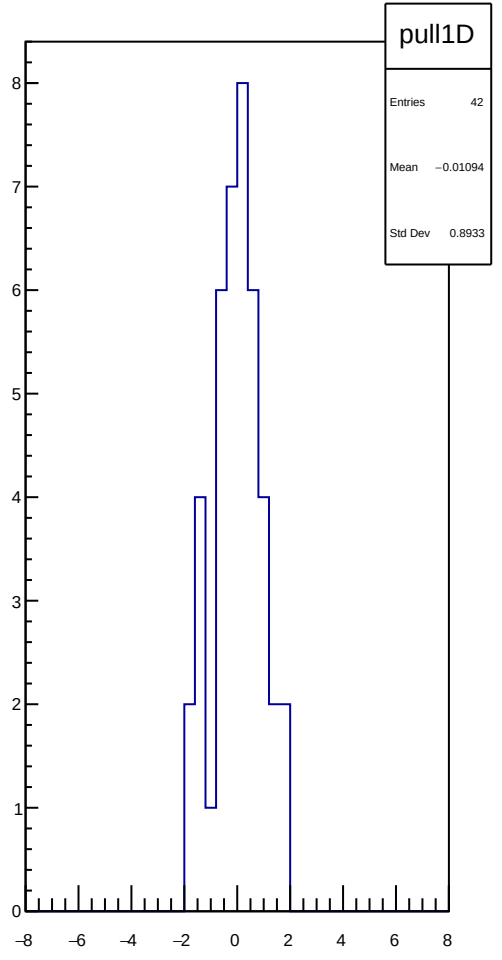

cor_sam7_rms vs run
χ² / ndf 70.02 / 41
p0 1253 ± 1.372
1290
1280
1270
1260
1250
1240
1230
1220
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

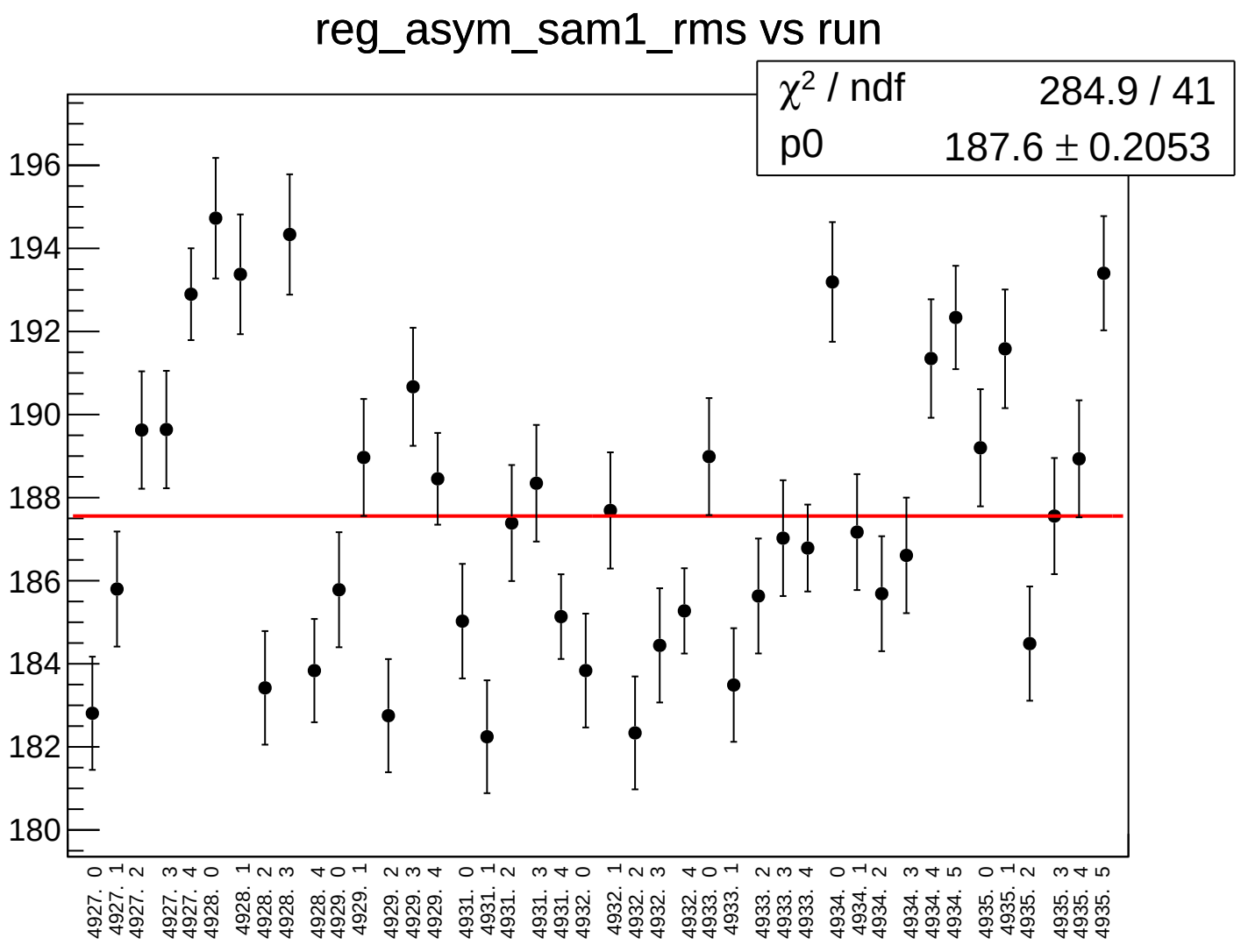

cor_sam8_mean vs run
χ² / ndf 36.51 / 41
p0 −762.1± 1897
40000
20000
0
−20000
−40000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 111.6
Std Dev 104
2
1
0
−1
−2

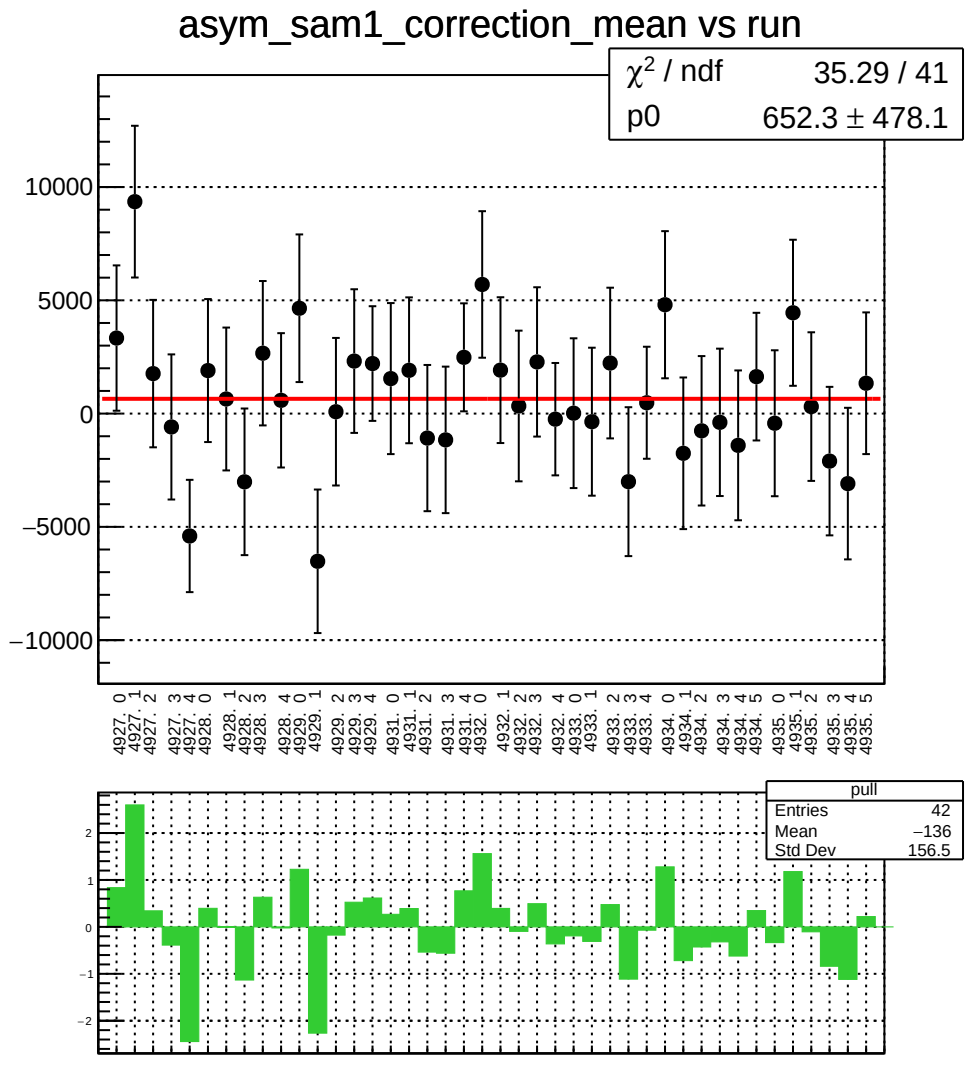

pull1D
Entries 42
Mean 0.01182
Std Dev 0.9322
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

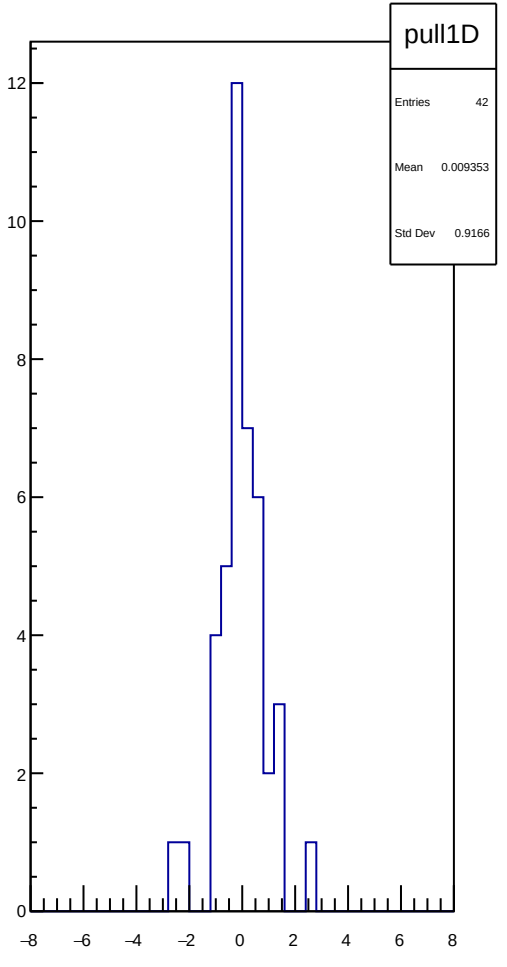

cor_sam8_rms vs run
χ² / ndf 69.02 / 41
p0 1225 ± 1.341
1270
1260
1250
1240
1230
1220
1210
1200
1190
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

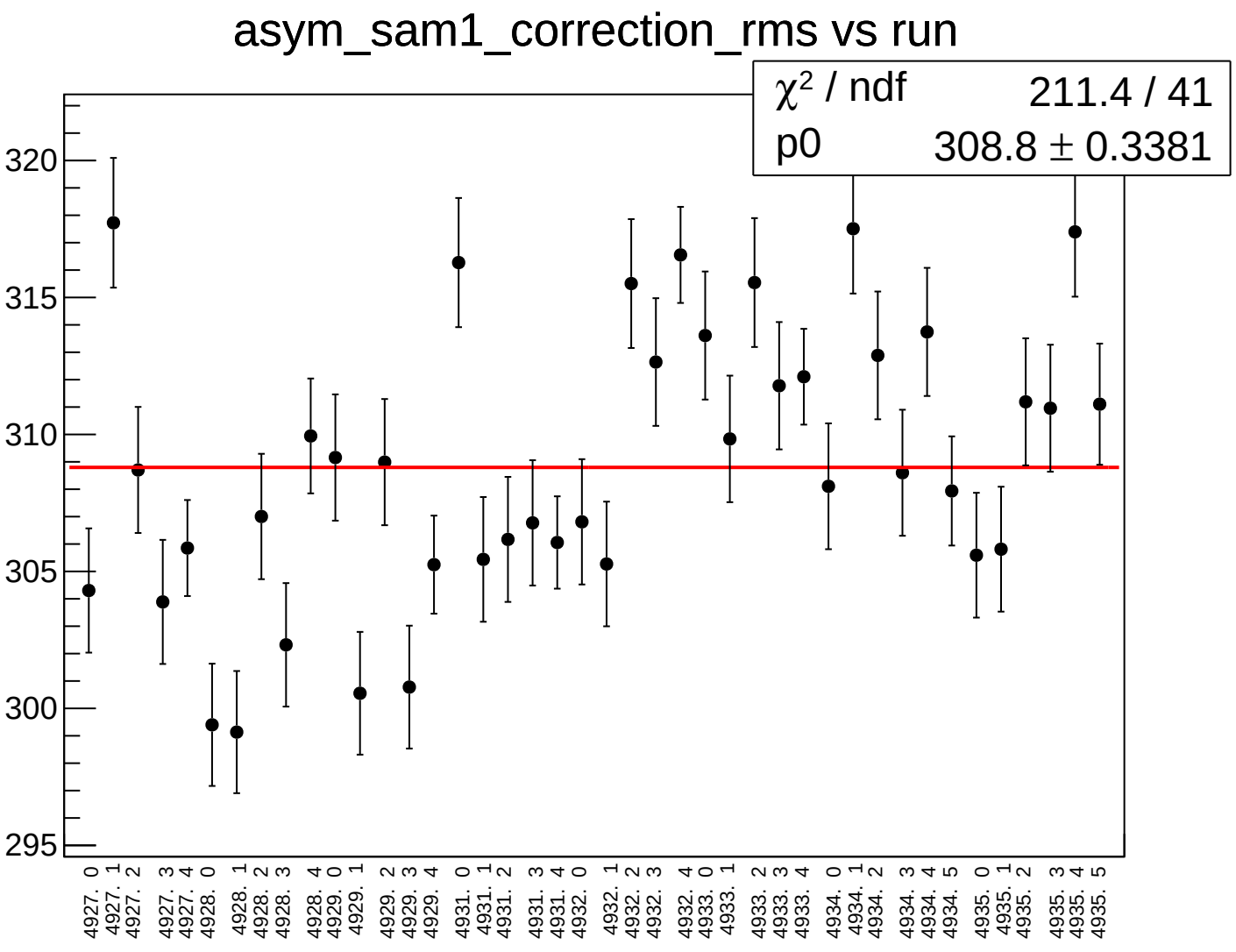

reg_asym_sam1_mean vs run
χ^2 / ndf 33.52 / 41
p0 411.5 ± 290.4
6000
4000
2000
0
−2000
−4000
−6000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −239
Std Dev 256.9
1.5
1
0.5
0
−0.5
−1
−1.5

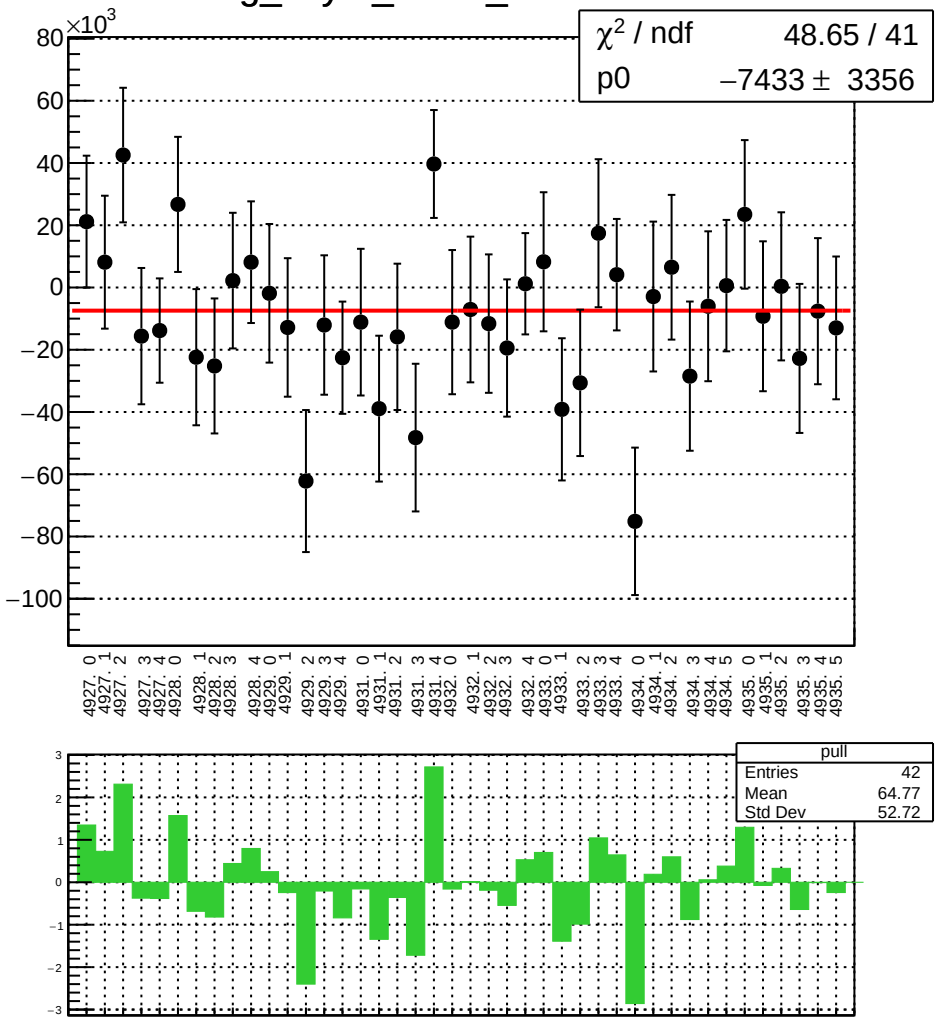

pull1D
Entries 42
Mean −0.01094
Std Dev 0.8933
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

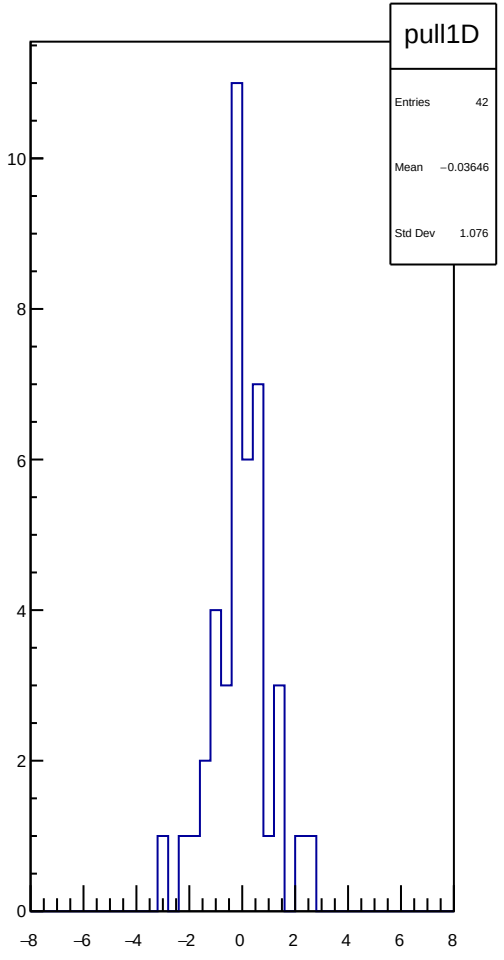

reg_asym_sam1_rms vs run
χ² / ndf 284.9 / 41
p0 187.6 ± 0.2053
196
194
192
190
188
186
184
182
180
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

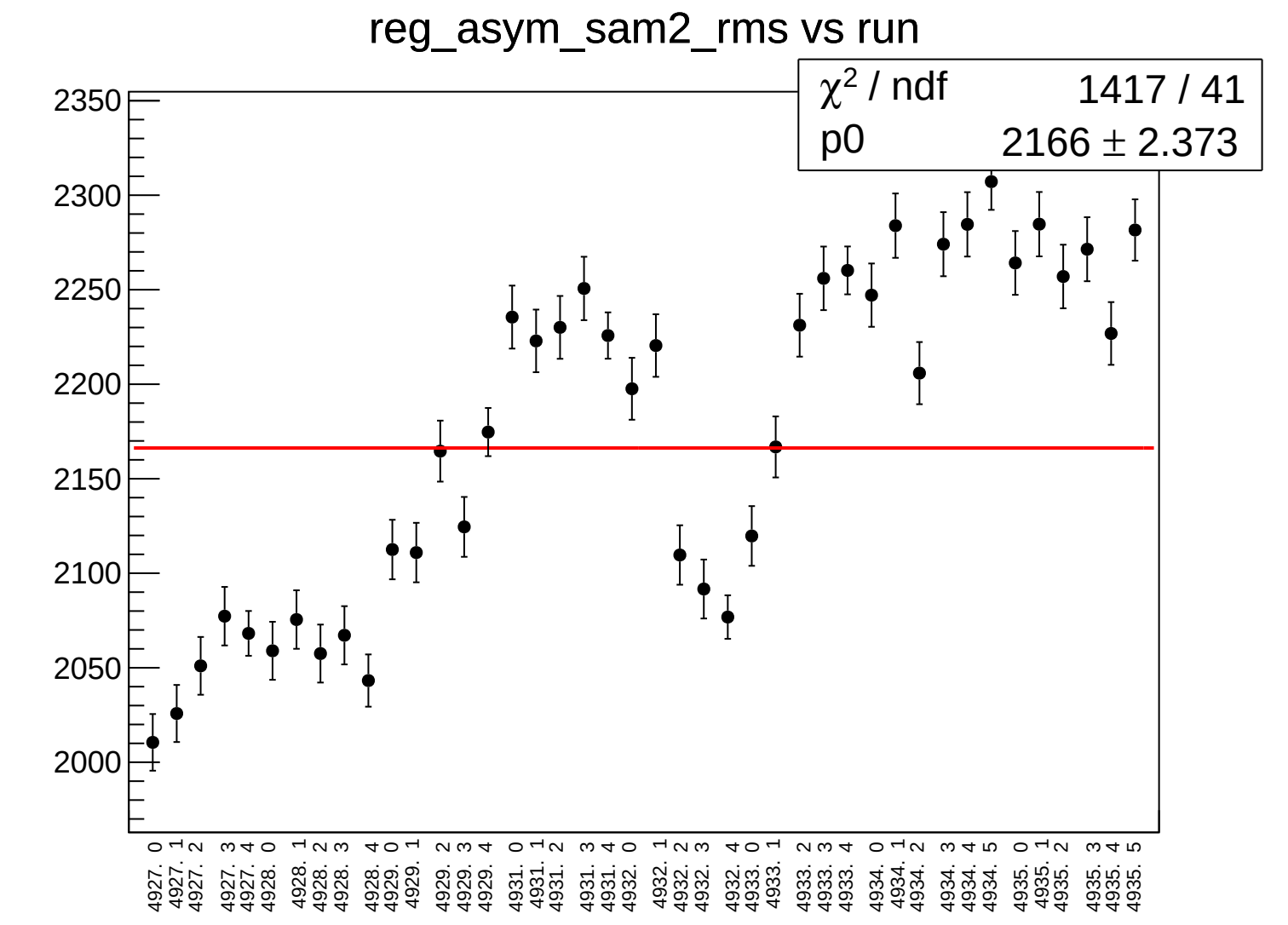

asym_sam1_correction_mean vs run
χ² / ndf 35.29 / 41
p0 652.3 ± 478.1
10000
5000
0
−5000
−10000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −136
Std Dev 156.5
2
1
0
−1
−2

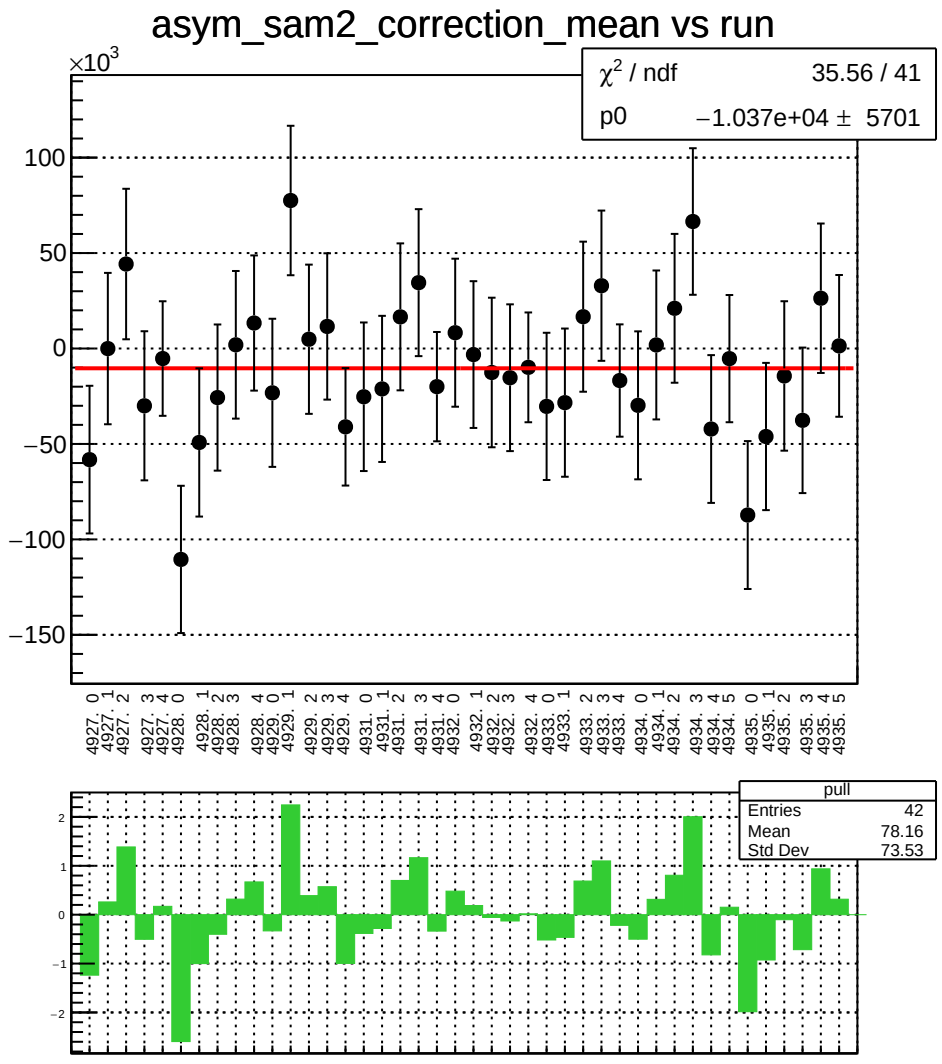

pull1D
Entries 42
Mean 0.009353
Std Dev 0.9166
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

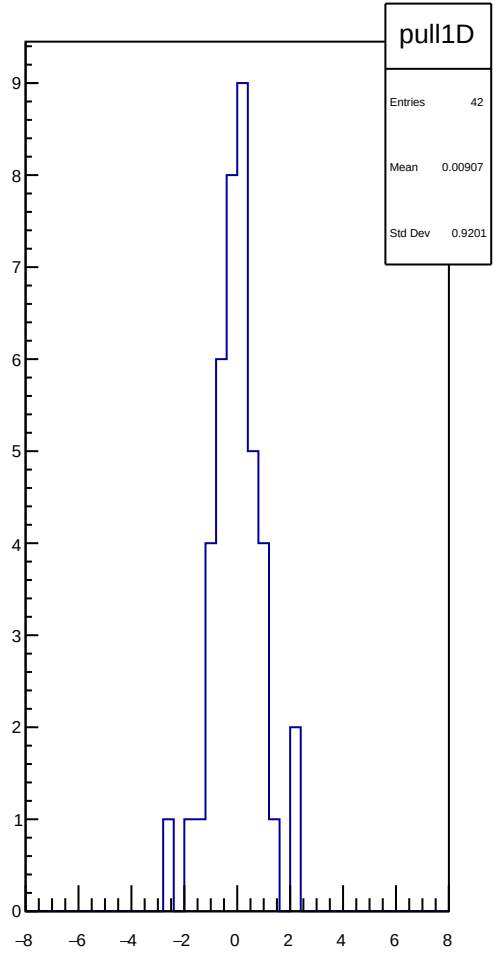

asym_sam1_correction_rms vs run
χ² / ndf 211.4 / 41
p0 308.8 ± 0.3381
320
315
310
305
300
295
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

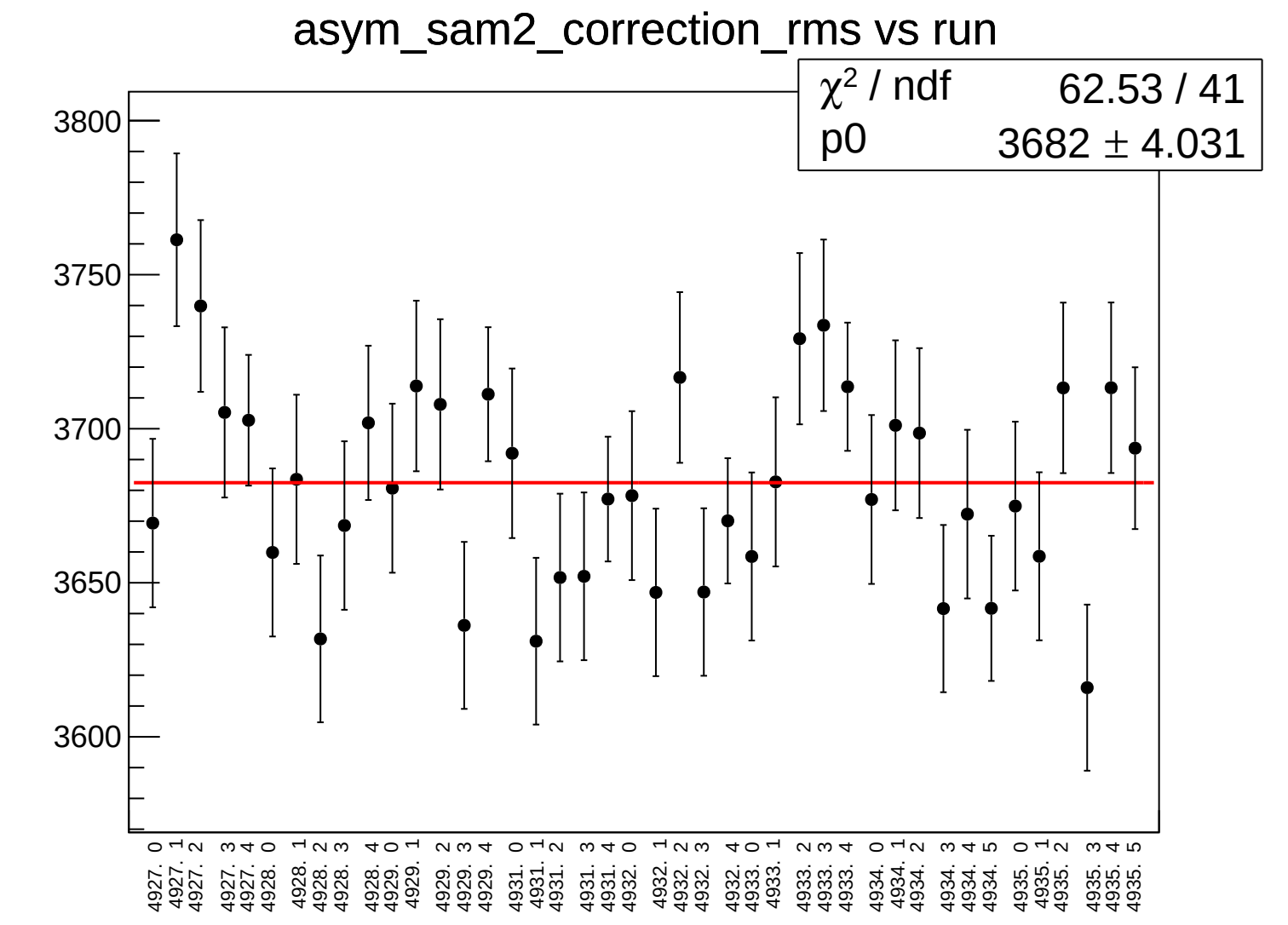

reg_asym_sam2_mean vs run
χ² / ndf 48.65 / 41
p0 −7433 ± 3356
×10³
pull
Entries 42
Mean 64.77
Std Dev 52.72

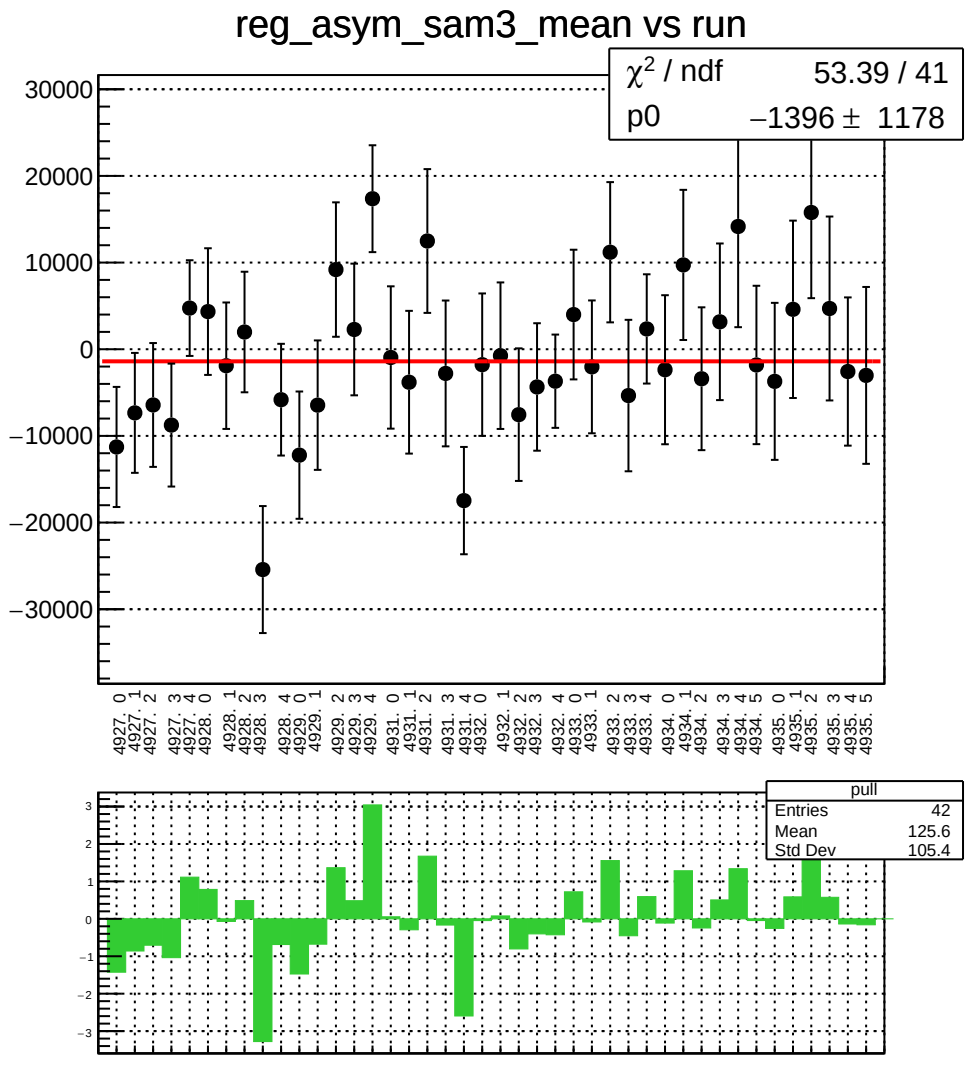

pull1D
Entries 42
Mean −0.03646
Std Dev 1.076

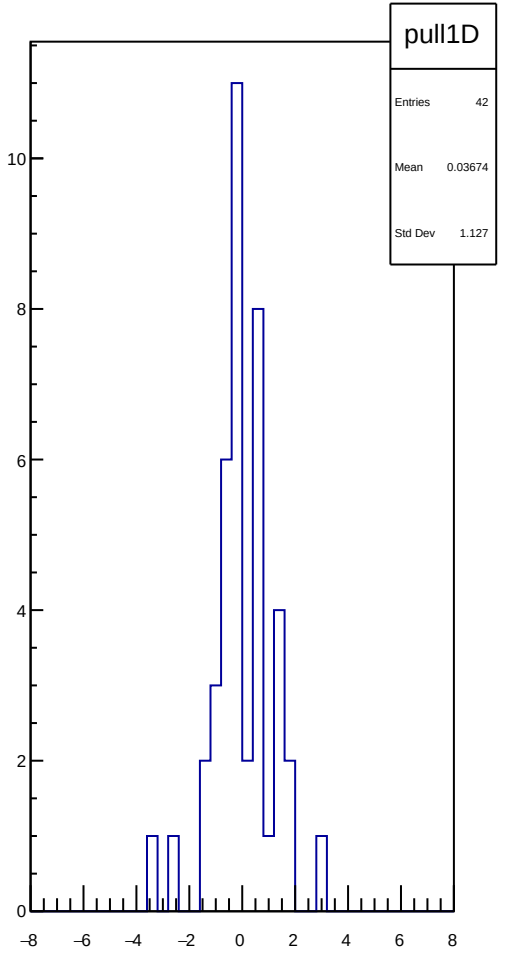

reg_asym_sam2_rms vs run
χ² / ndf 1417 / 41
p0 2166 ± 2.373
2350
2300
2250
2200
2150
2100
2050
2000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

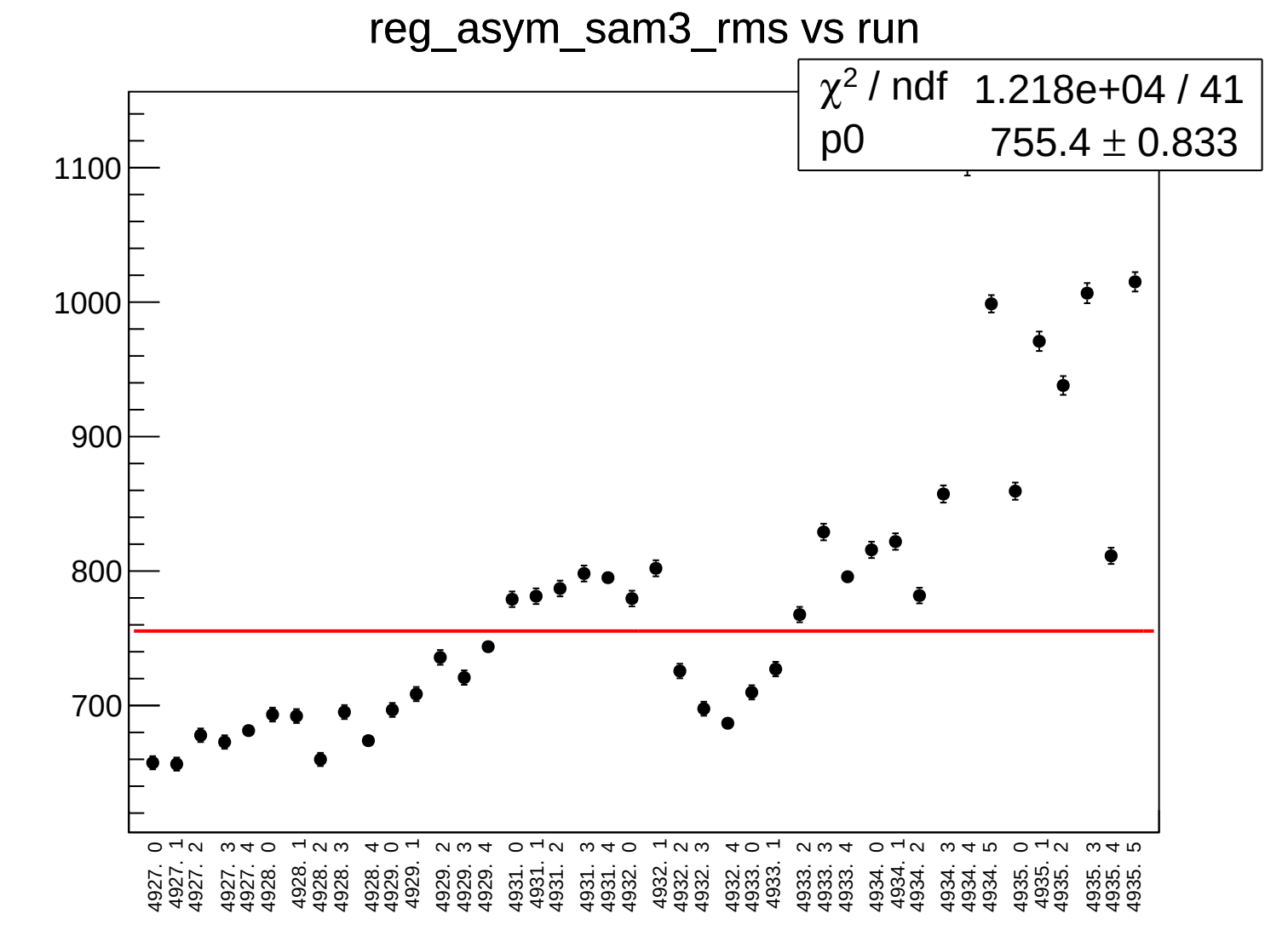

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 35.56 / 41
p0 −1.037e+04 ± 5701
100
50
0
−50
−100
−150
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 78.16
Std Dev 73.53
2
1
0
−1
−2

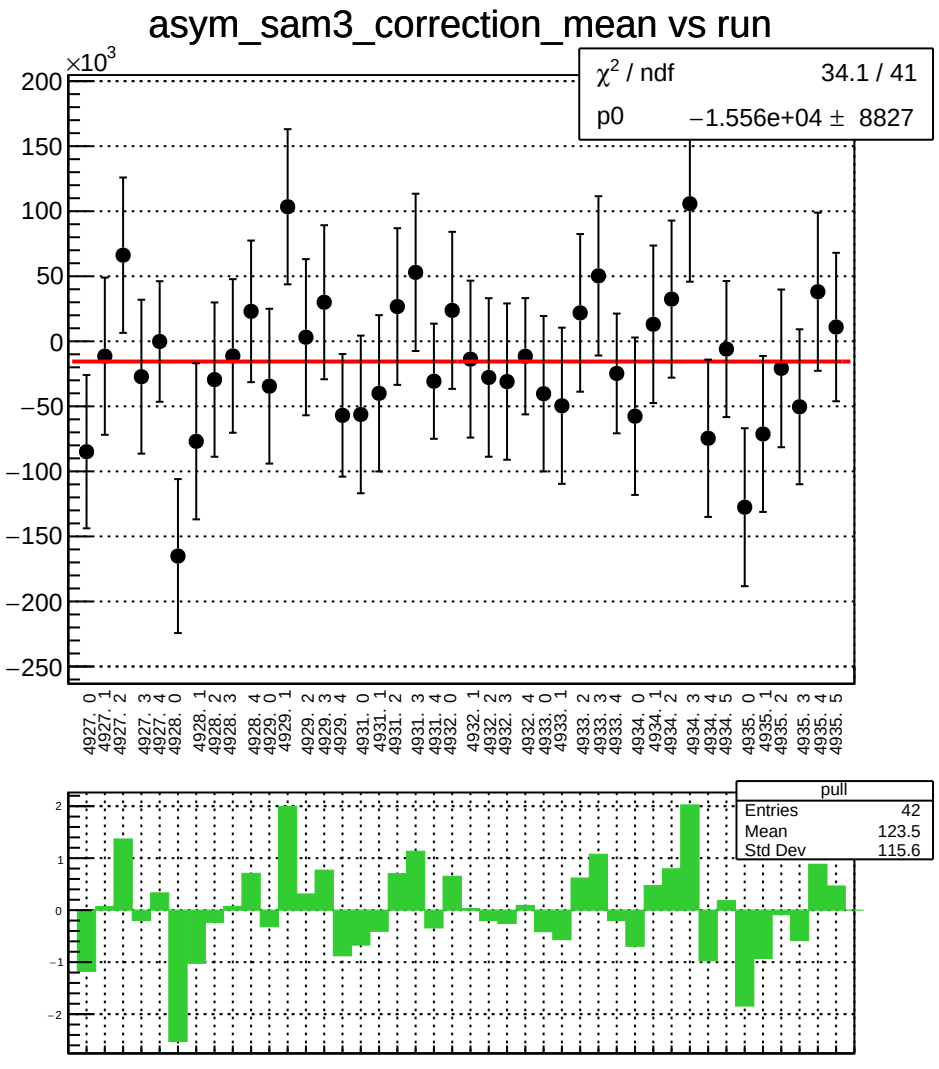

pull1D
Entries 42
Mean 0.00907
Std Dev 0.9201
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

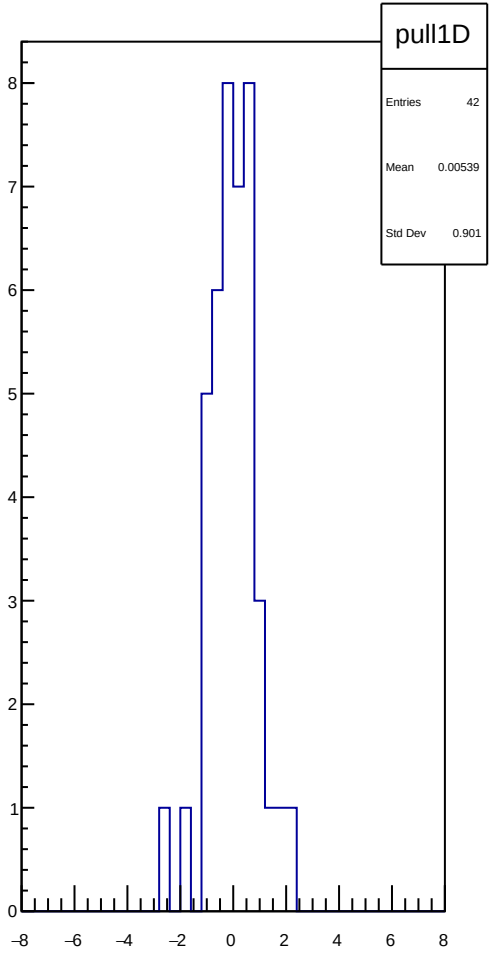

asym_sam2_correction_rms vs run
χ² / ndf 62.53 / 41
p0 3682 ± 4.031
3800
3750
3700
3650
3600
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

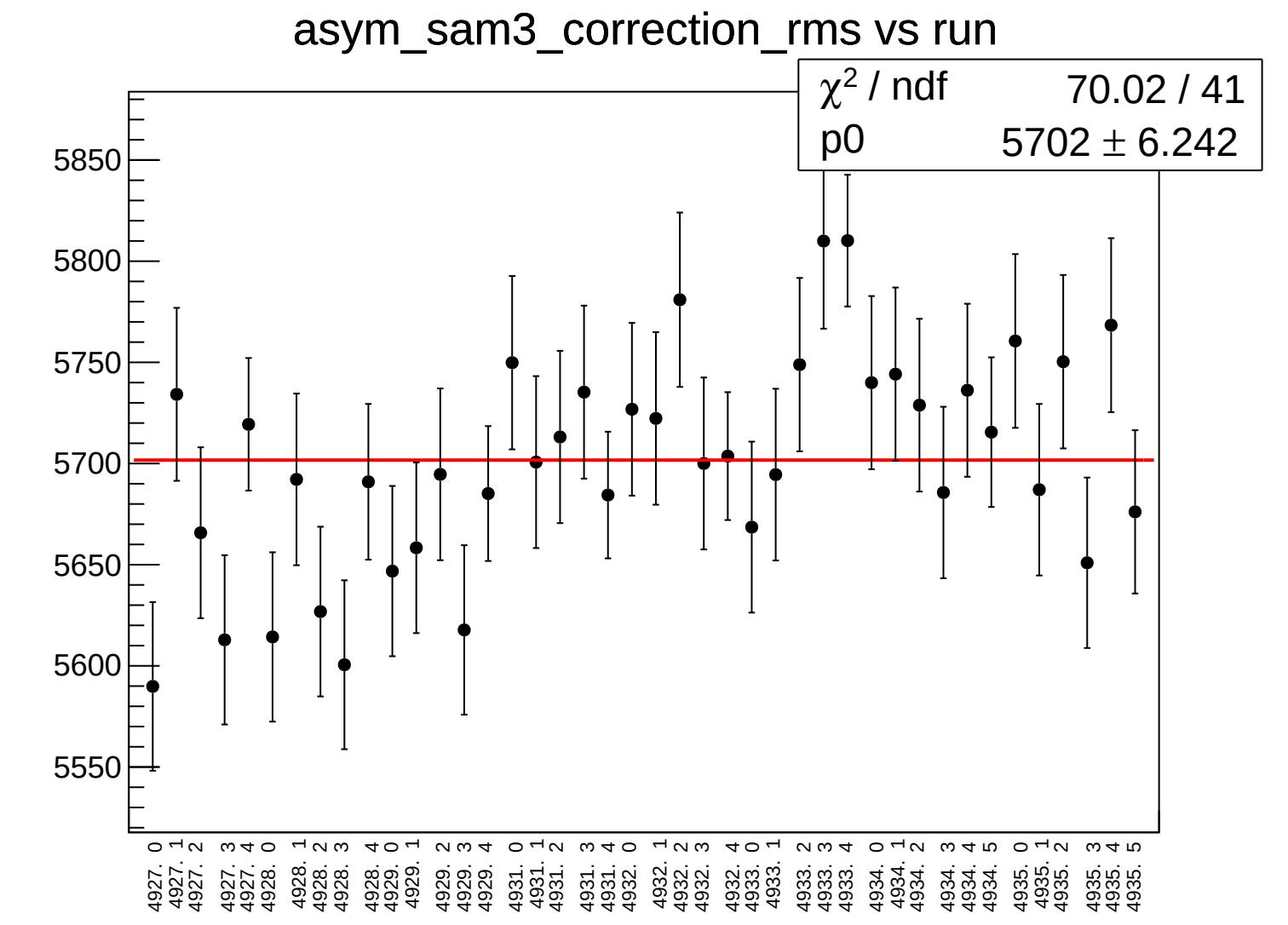

reg_asym_sam3_mean vs run
χ² / ndf 53.39 / 41
p0 −1396 ± 1178
30000
20000
10000
0
−10000
−20000
−30000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 125.6
Std Dev 105.4
3
2
1
0
−1
−2
−3

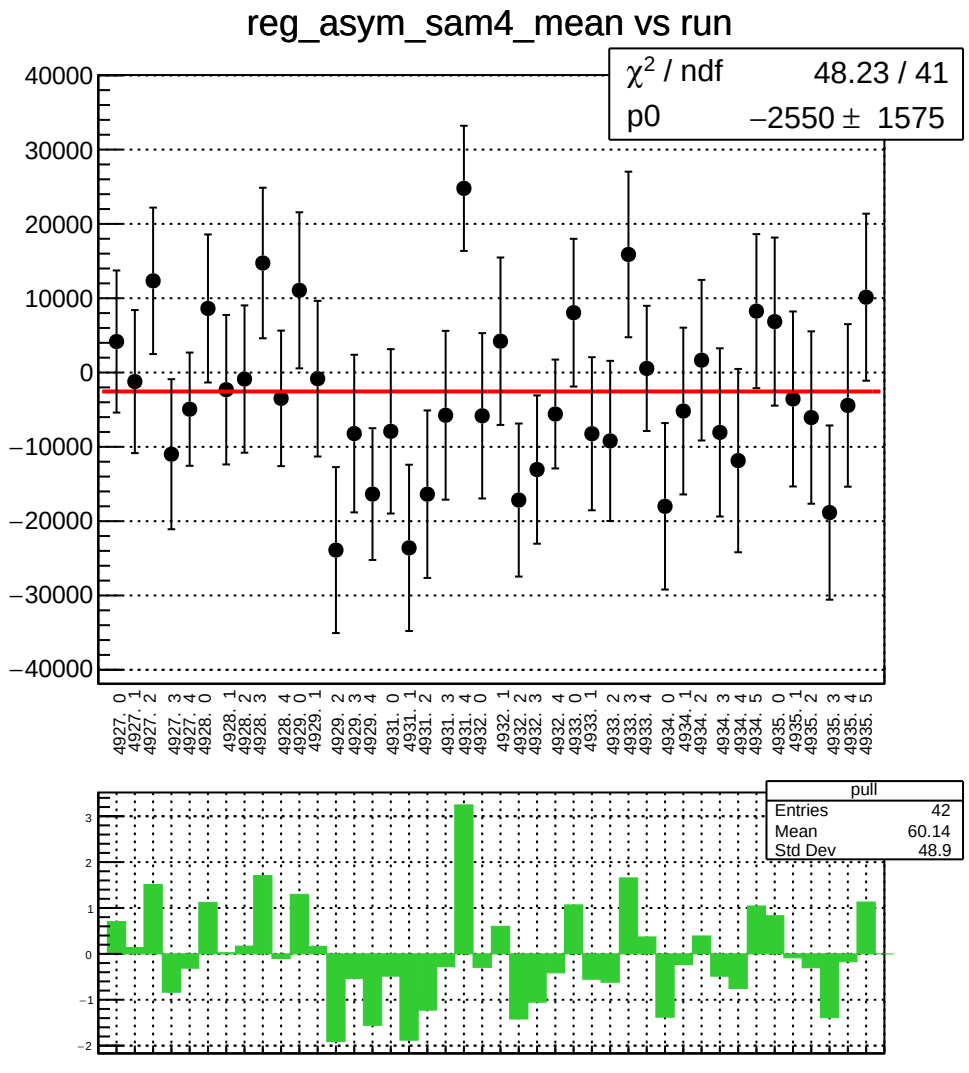

pull1D
Entries 42
Mean 0.03674
Std Dev 1.127
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

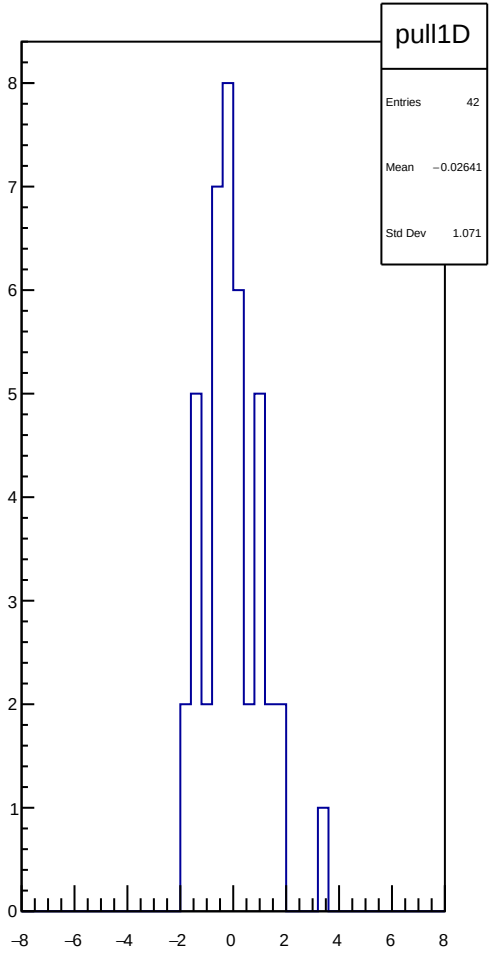

reg_asym_sam3_rms vs run
χ² / ndf 1.218e+04 / 41
p0 755.4 ± 0.833
1100
1000
900
800
700
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

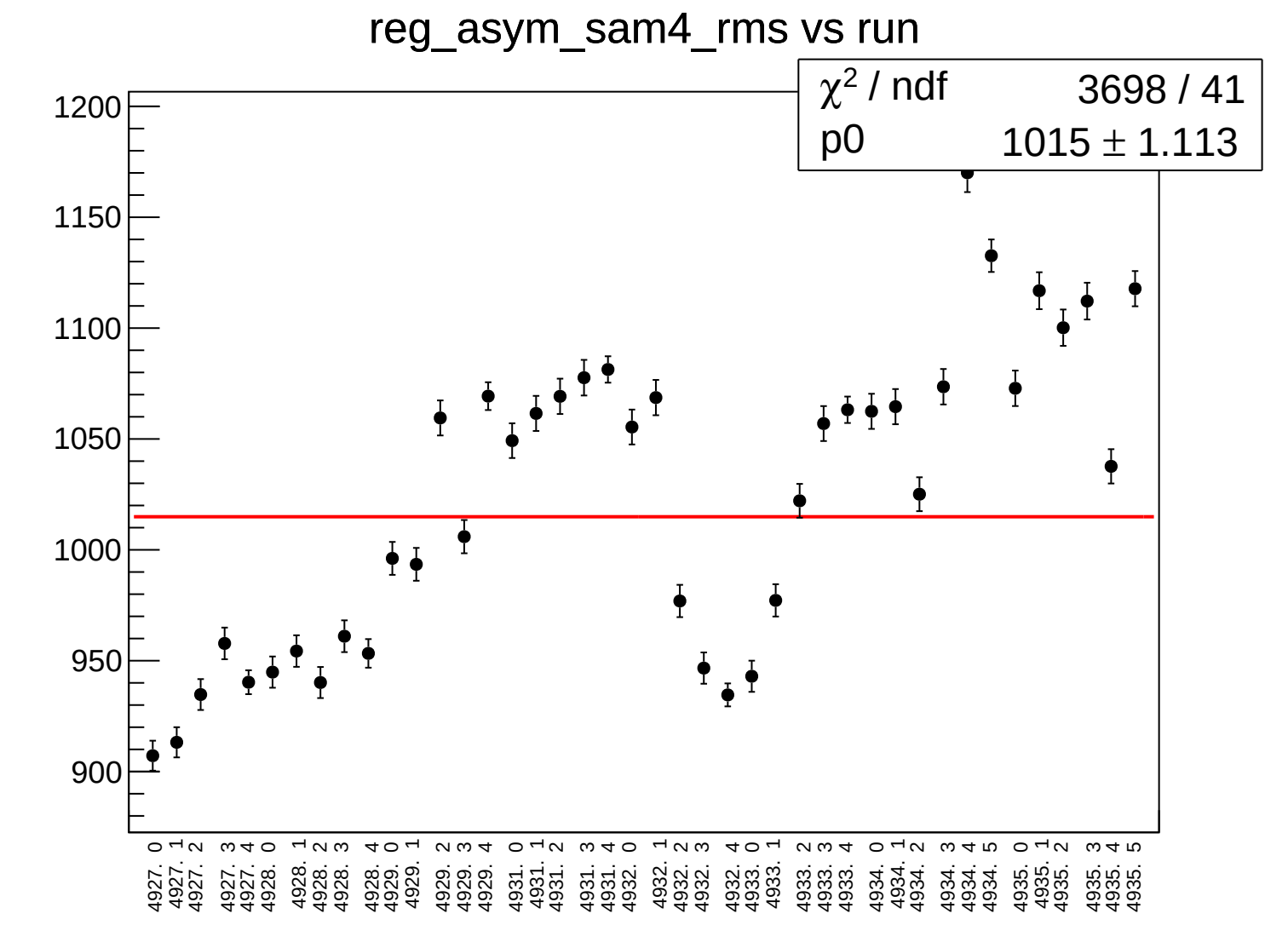

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 34.1 / 41
p0 −1.556e+04 ± 8827
pull
Entries 42
Mean 123.5
Std Dev 115.6

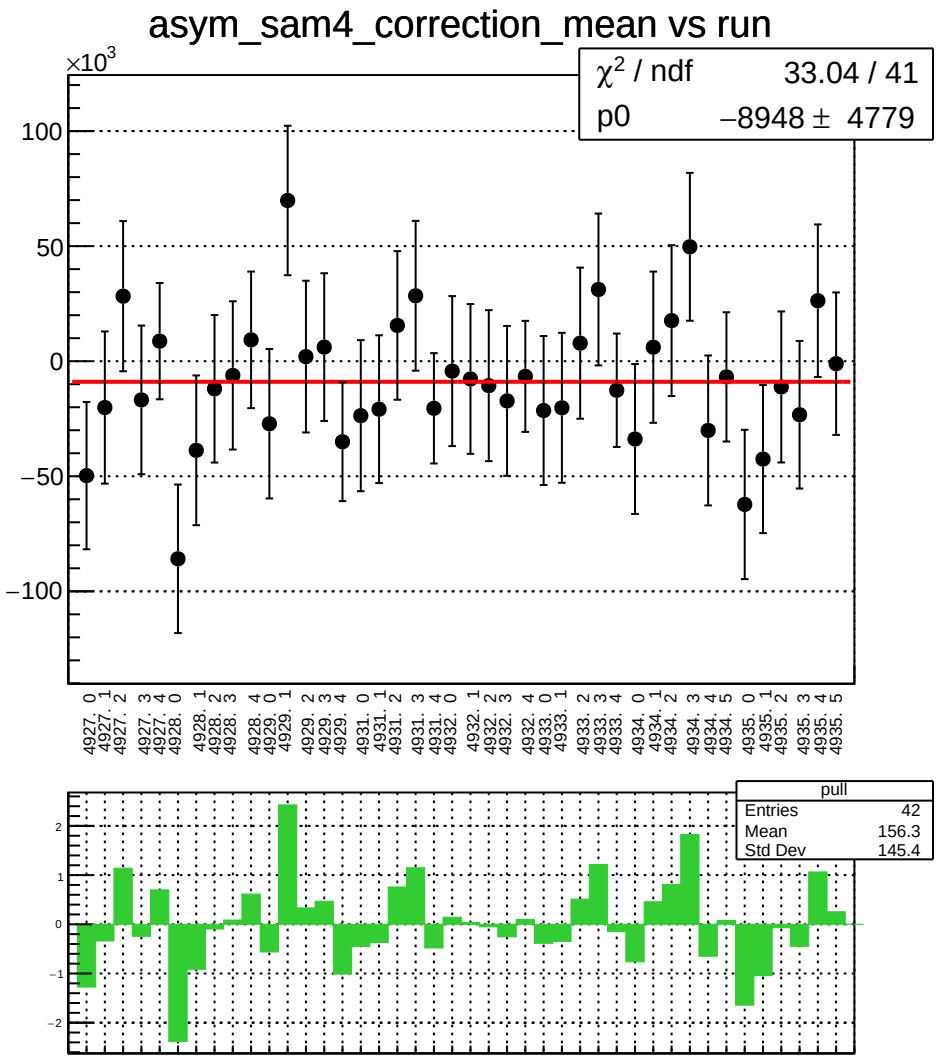

pull1D
Entries 42
Mean 0.00539
Std Dev 0.901

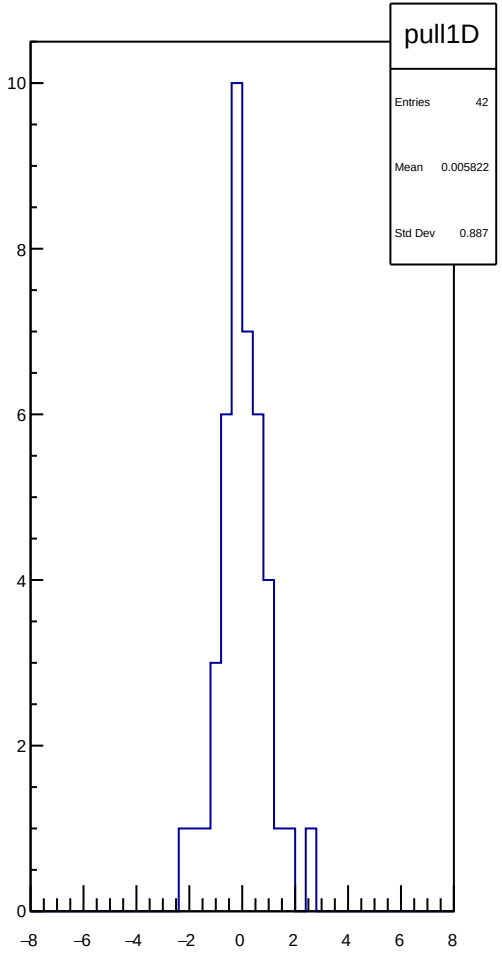

asym_sam3_correction_rms vs run
χ² / ndf 70.02 / 41
p0 5702 ± 6.242
5850
5800
5750
5700
5650
5600
5550
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

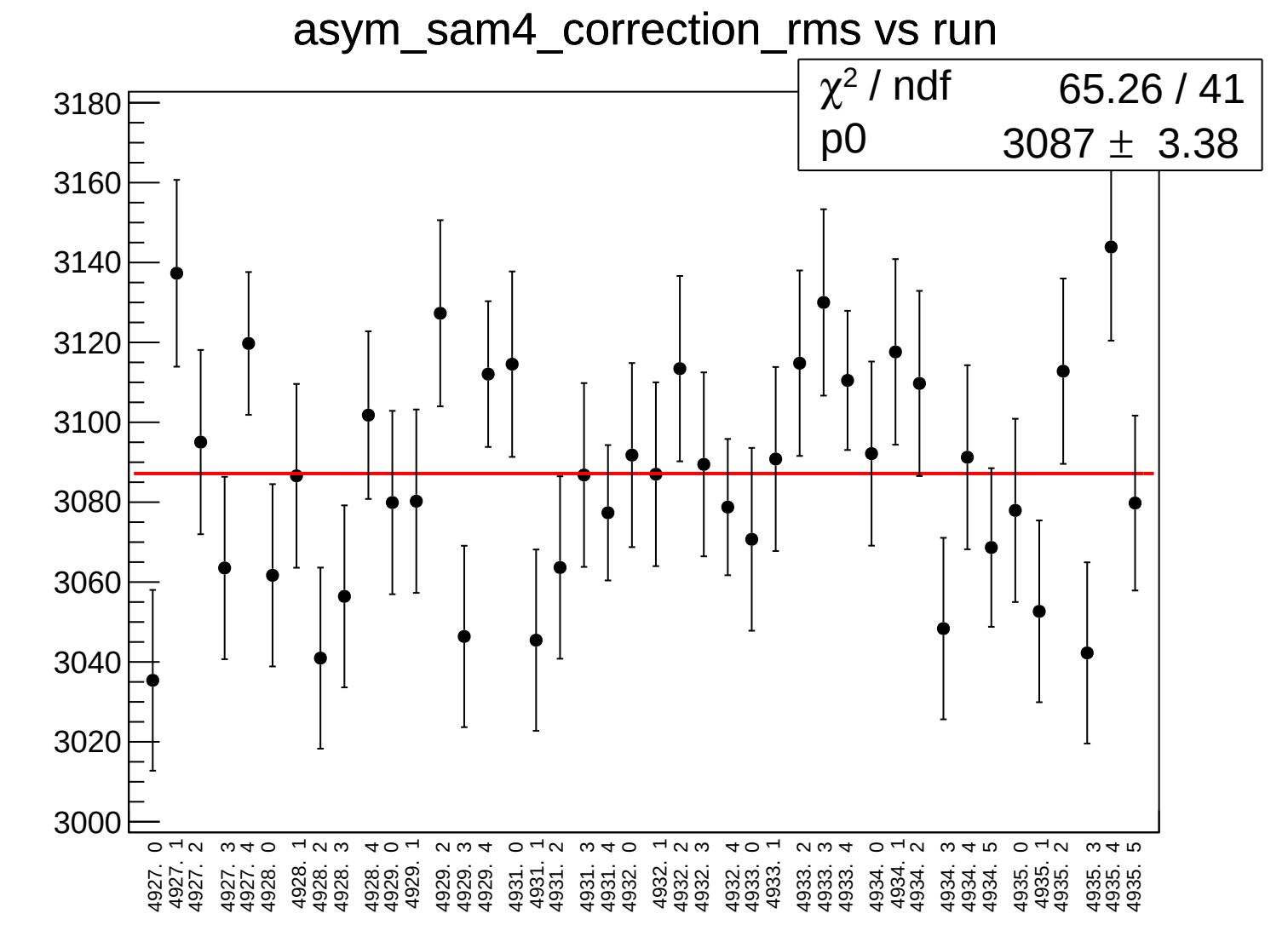

reg_asym_sam4_mean vs run
χ² / ndf 48.23 / 41
p0 −2550 ± 1575
pull
Entries 42
Mean 60.14
Std Dev 48.9

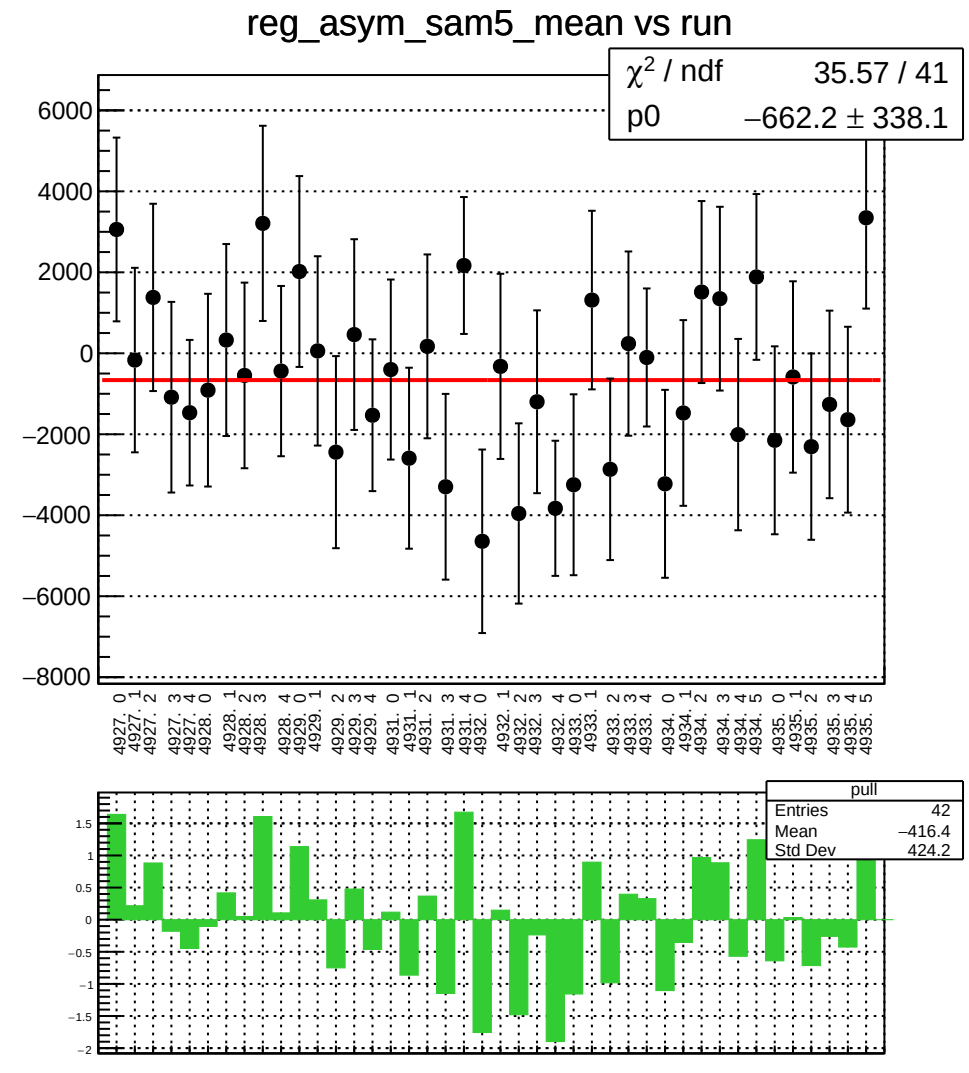

pull1D
Entries 42
Mean −0.02641
Std Dev 1.071

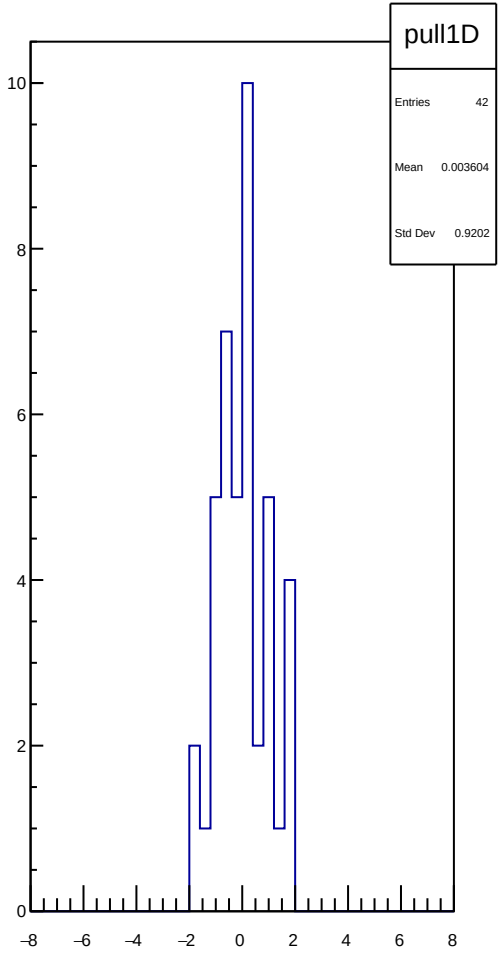

reg_asym_sam4_rms vs run
χ² / ndf 3698 / 41
p0 1015 ± 1.113
1200
1150
1100
1050
1000
950
900
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

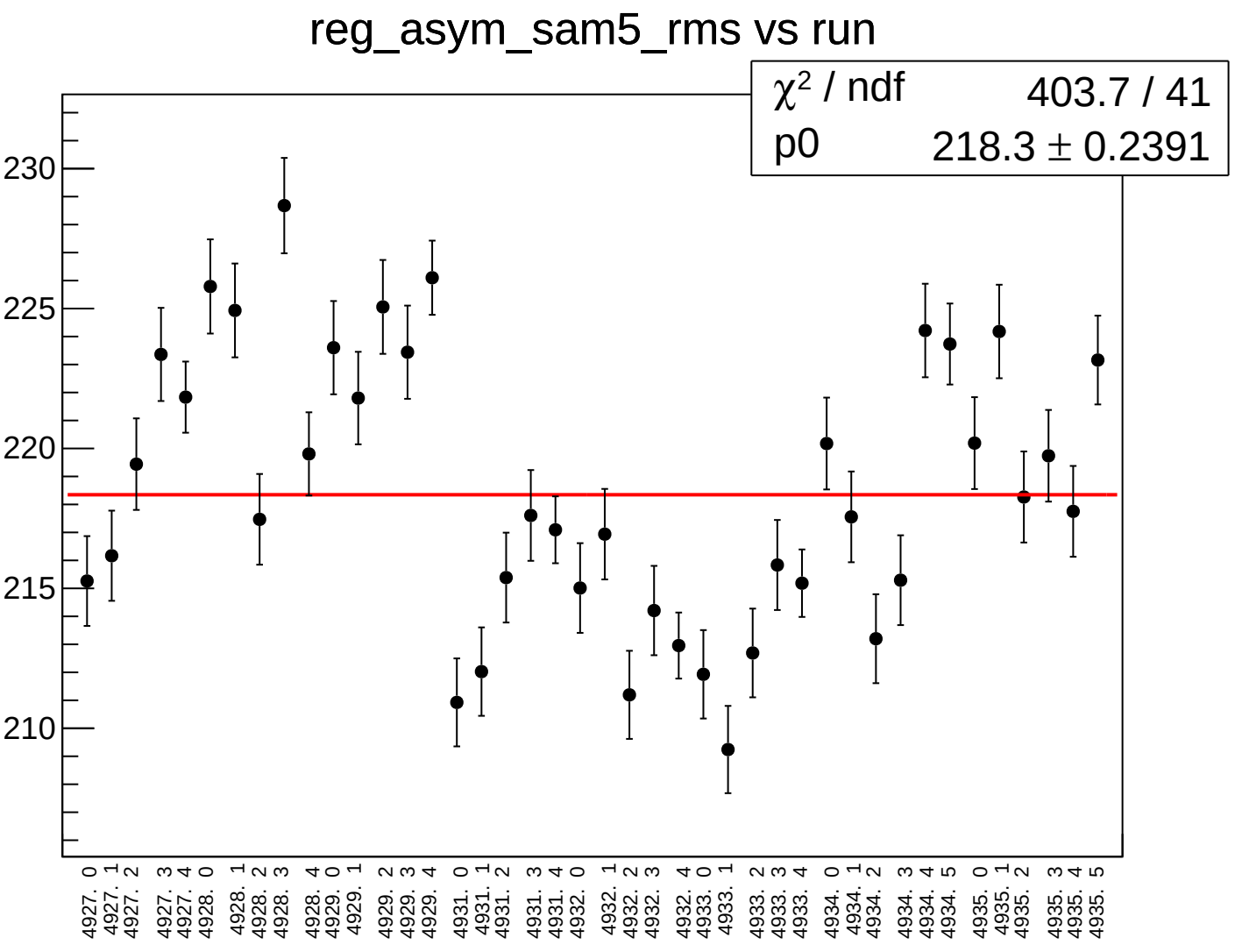

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 33.04 / 41
p0 −8948 ± 4779
100
50
0
−50
−100
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 156.3
Std Dev 145.4
2
1
0
−1
−2

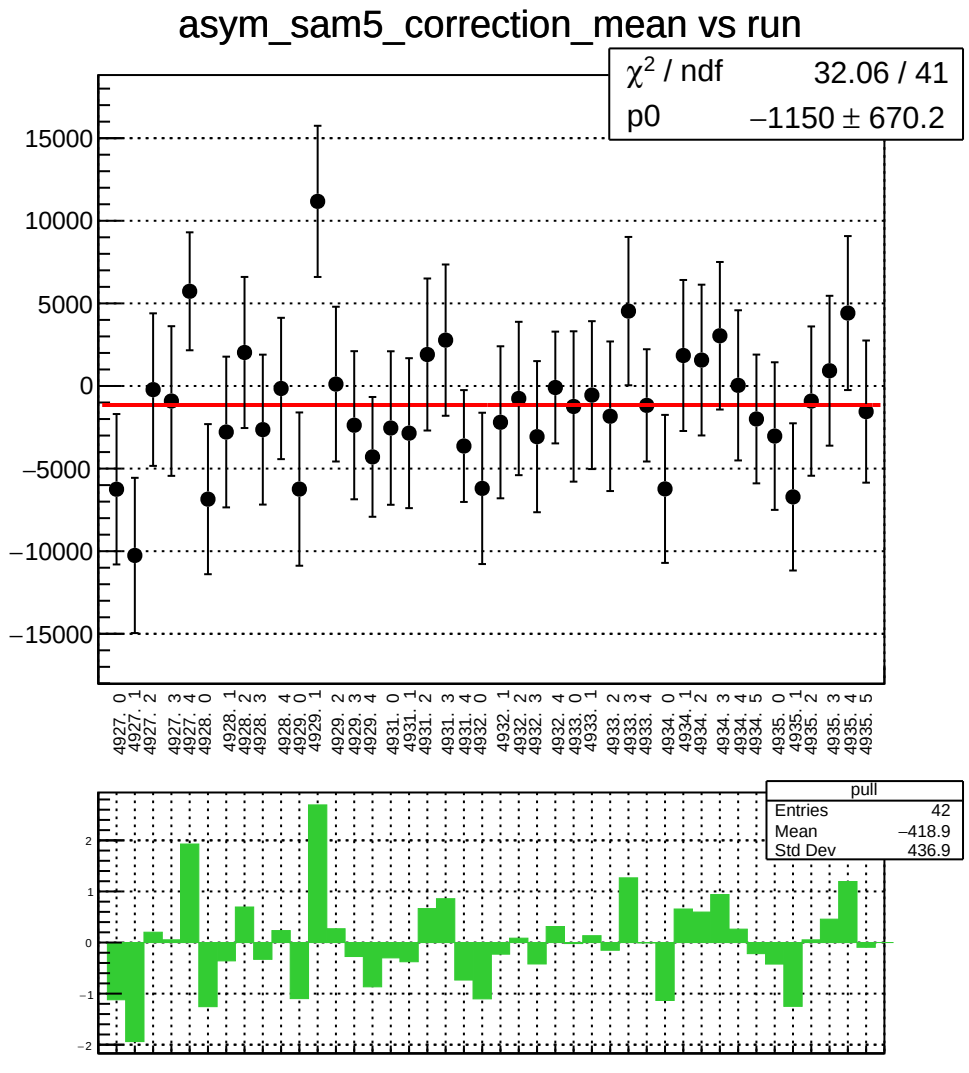

pull1D
Entries 42
Mean 0.005822
Std Dev 0.887
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

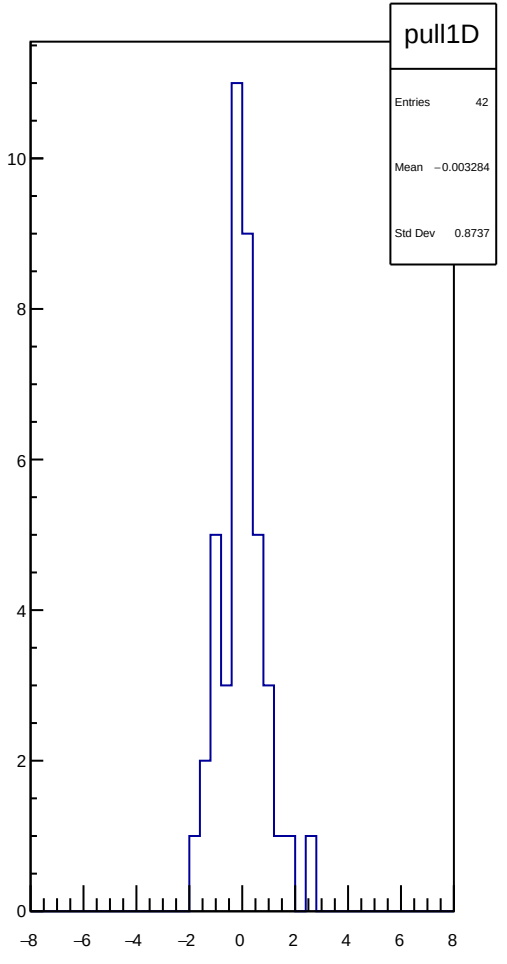

asym_sam4_correction_rms vs run
χ² / ndf 65.26 / 41
p0 3087 ± 3.38
3180
3160
3140
3120
3100
3080
3060
3040
3020
3000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

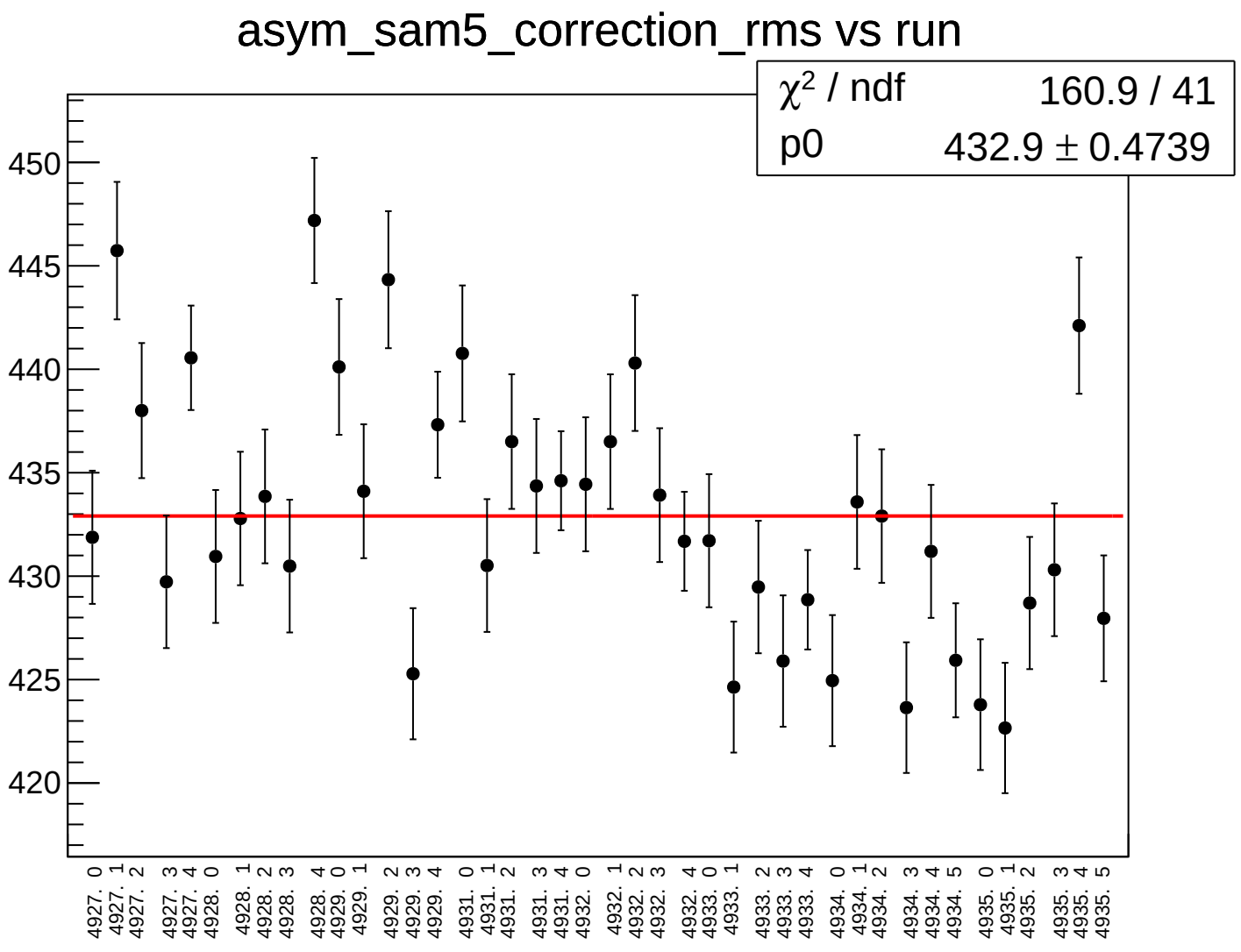

reg_asym_sam5_mean vs run
χ^2 / ndf 35.57 / 41
p0 −662.2 ± 338.1
6000
4000
2000
0
−2000
−4000
−6000
−8000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −416.4
Std Dev 424.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

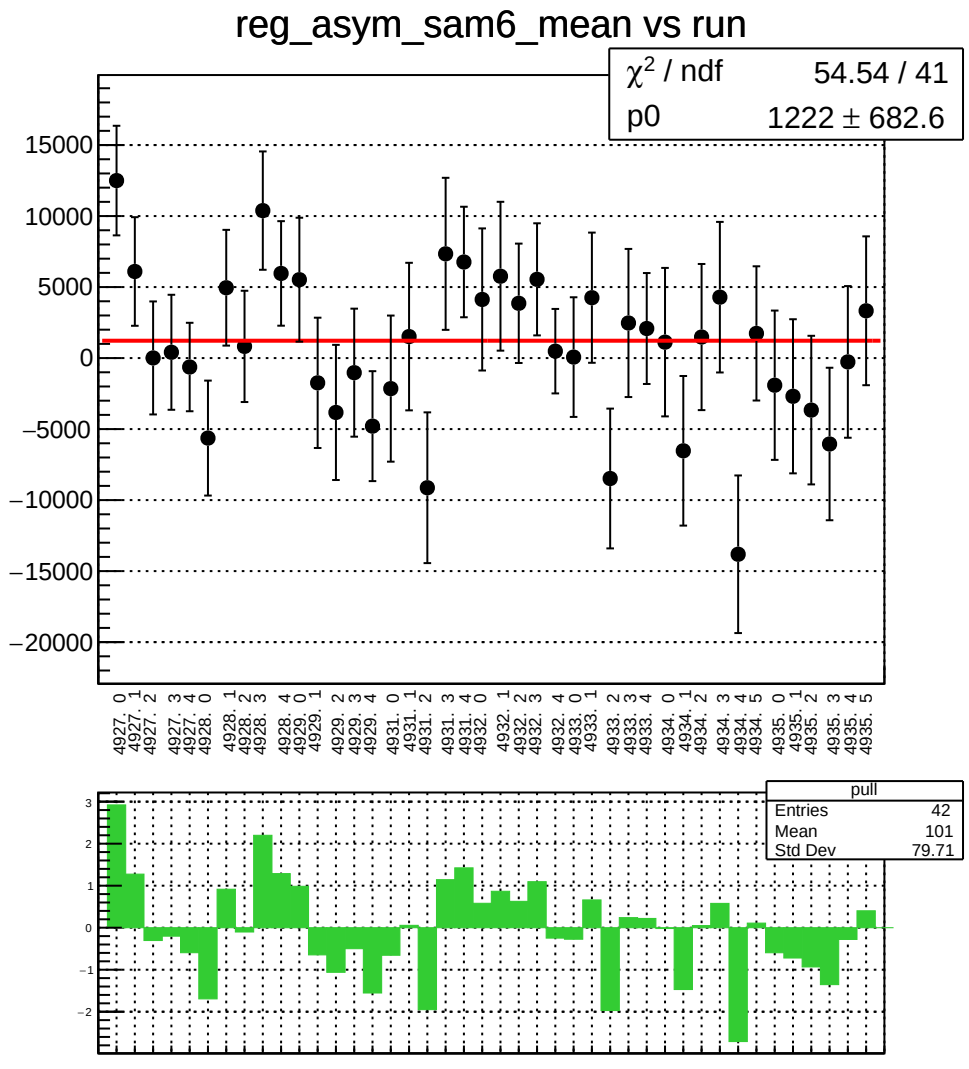

pull1D
Entries 42
Mean 0.003604
Std Dev 0.9202
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

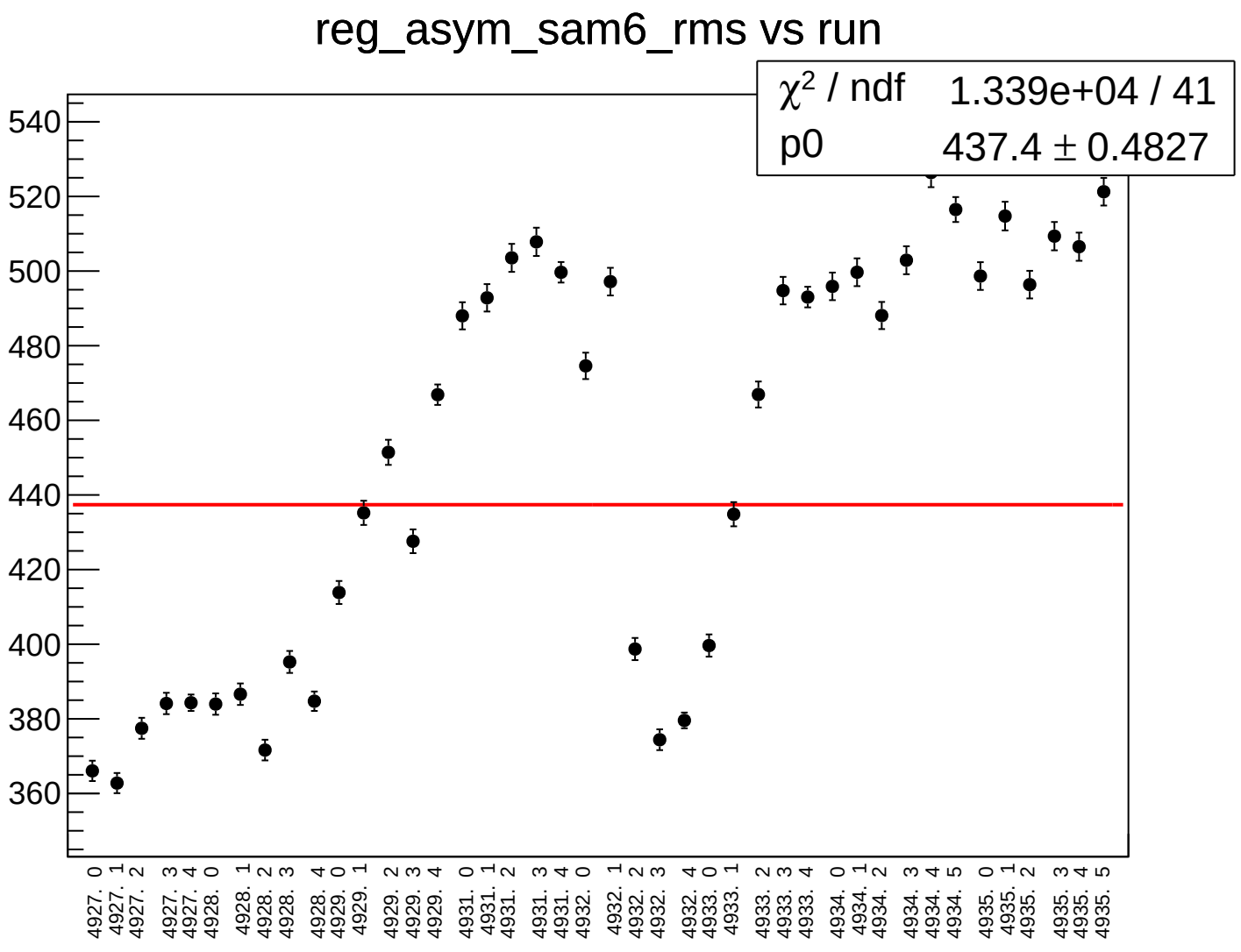

reg_asym_sam5_rms vs run
χ² / ndf 403.7 / 41
p0 218.3 ± 0.2391
230
225
220
215
210
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

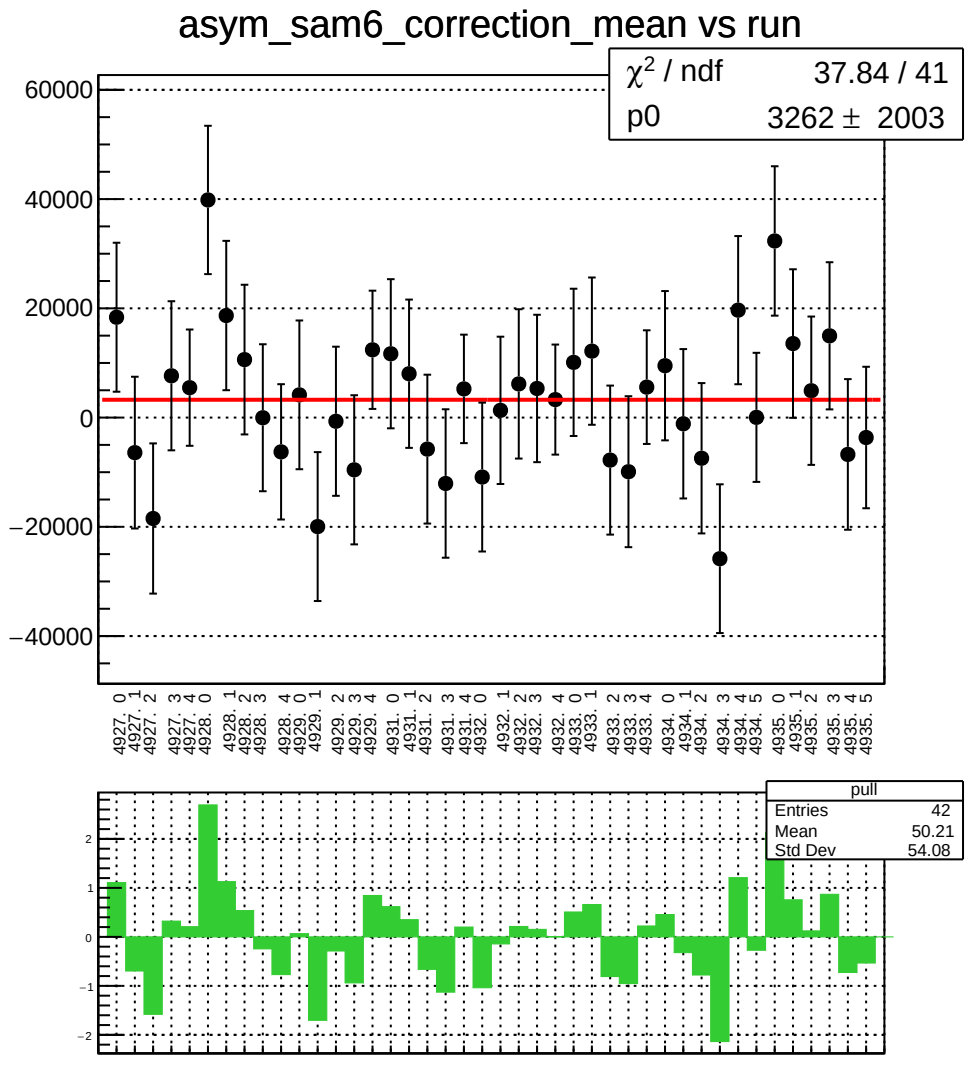

asym_sam5_correction_mean vs run
χ² / ndf 32.06 / 41
p0 −1150 ± 670.2
15000
10000
5000
0
−5000
−10000
−15000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −418.9
Std Dev 436.9
2
1
0
−1
−2

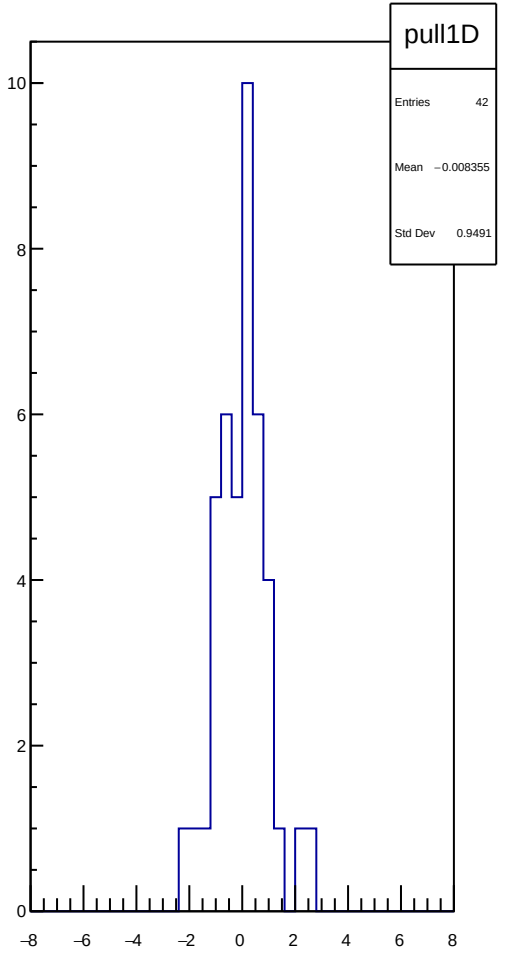

pull1D
Entries 42
Mean −0.003284
Std Dev 0.8737
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

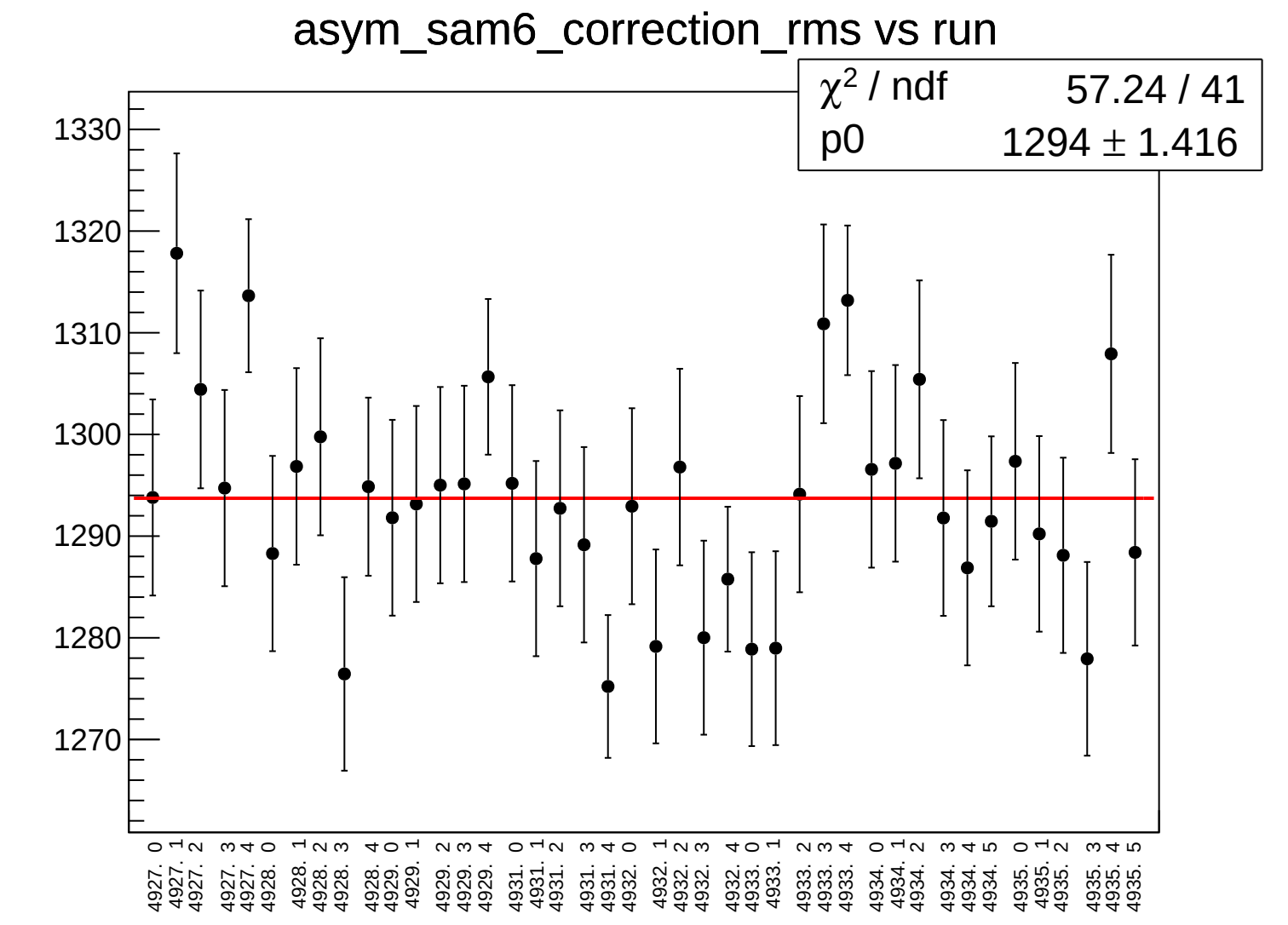

asym_sam5_correction_rms vs run
χ² / ndf 160.9 / 41
p0 432.9 ± 0.4739
450
445
440
435
430
425
420
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

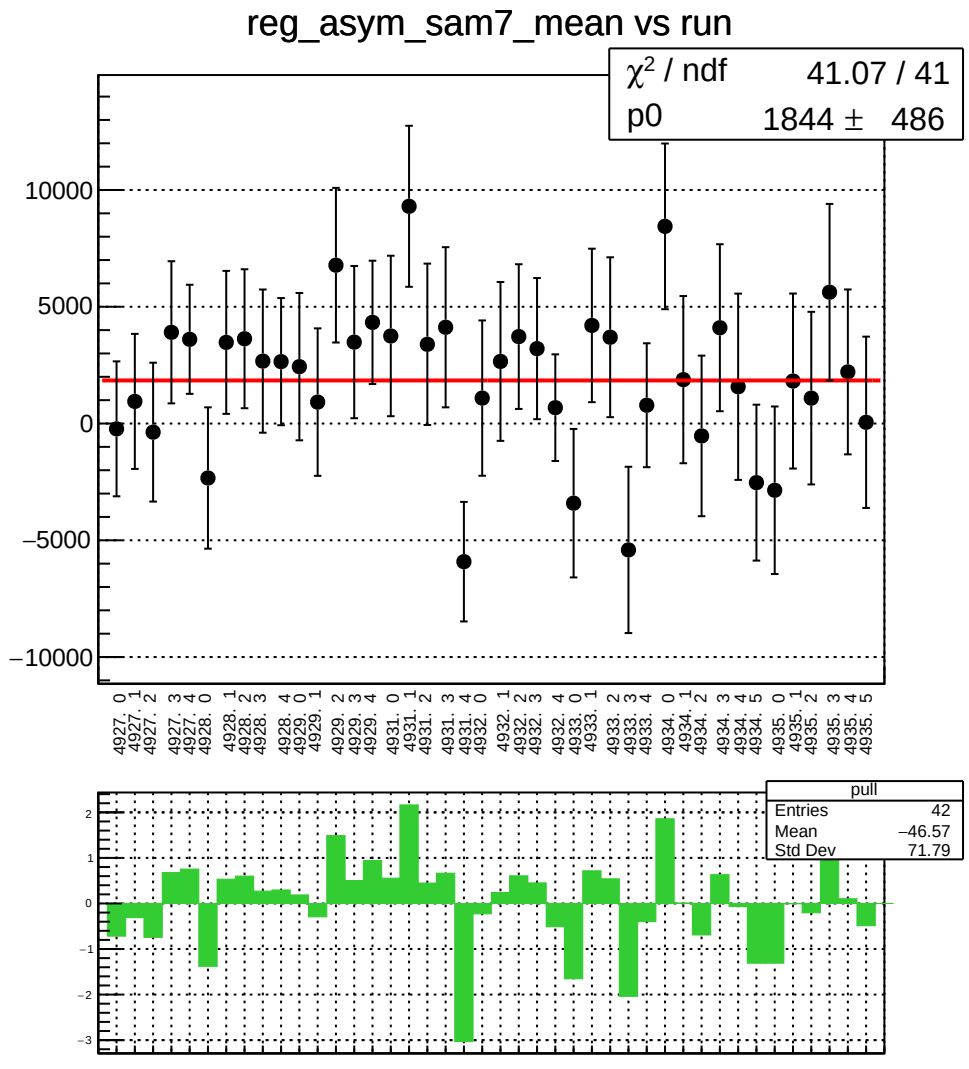

reg_asym_sam6_mean vs run
χ² / ndf 54.54 / 41
p0 1222 ± 682.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 101
Std Dev 79.71
3
2
1
0
−1
−2
pull1D
Entries 42
Mean −0.05248
Std Dev 1.138
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

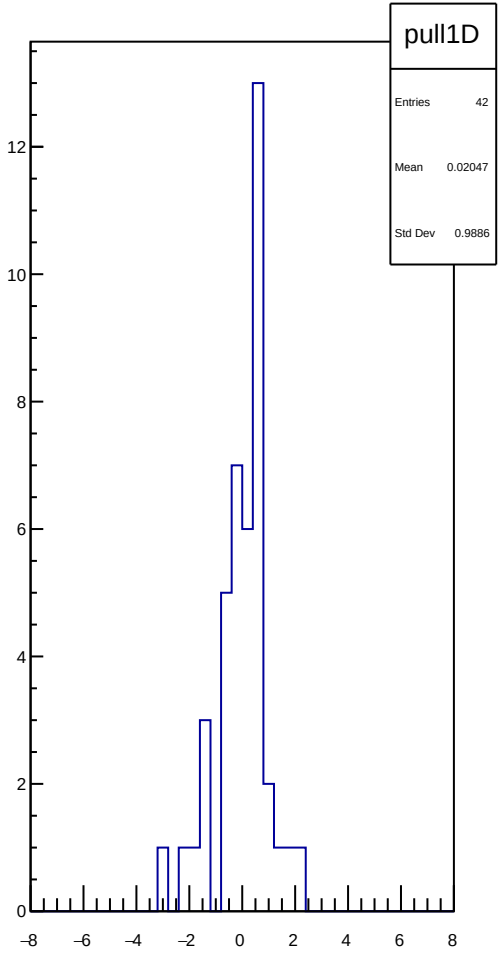

reg_asym_sam6_rms vs run
χ² / ndf 1.339e+04 / 41
p0 437.4 ± 0.4827
540
520
500
480
460
440
420
400
380
360
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

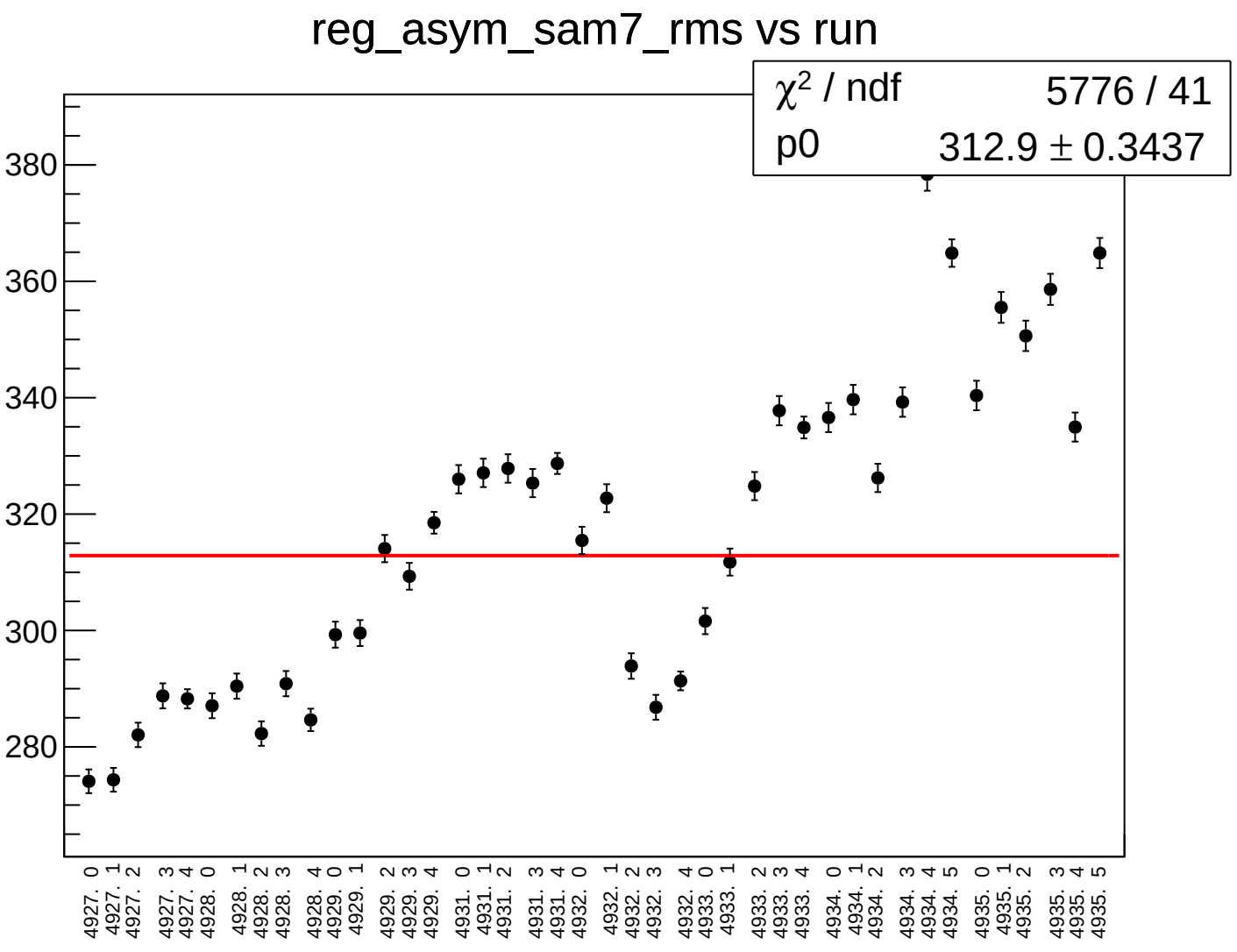

asym_sam6_correction_mean vs run
χ² / ndf 37.84 / 41
p0 3262 ± 2003
60000
40000
20000
0
−20000
−40000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935.
pull
Entries 42
Mean 50.21
Std Dev 54.08
2
1
0
−1
−2

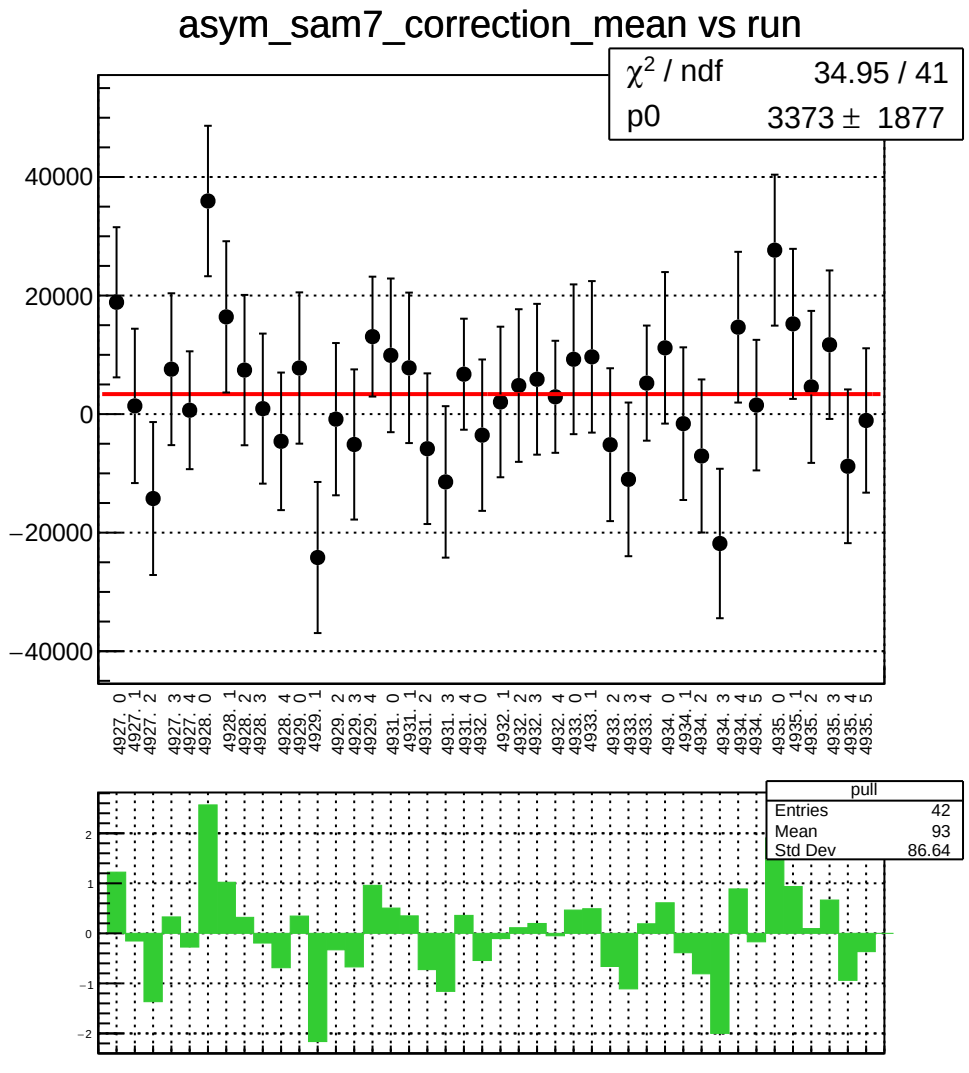

pull1D
Entries 42
Mean −0.008355
Std Dev 0.9491
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

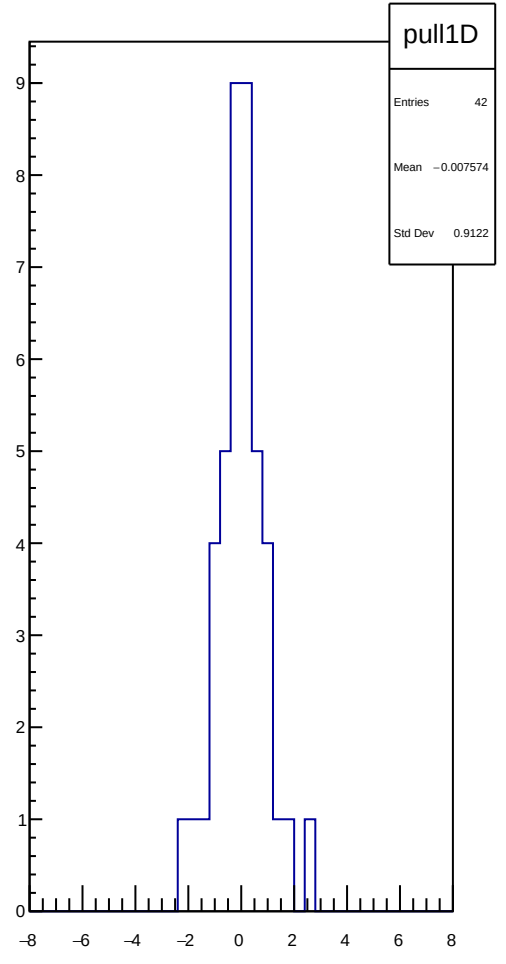

asym_sam6_correction_rms vs run
χ² / ndf 57.24 / 41
p0 1294 ± 1.416
1330
1320
1310
1300
1290
1280
1270
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

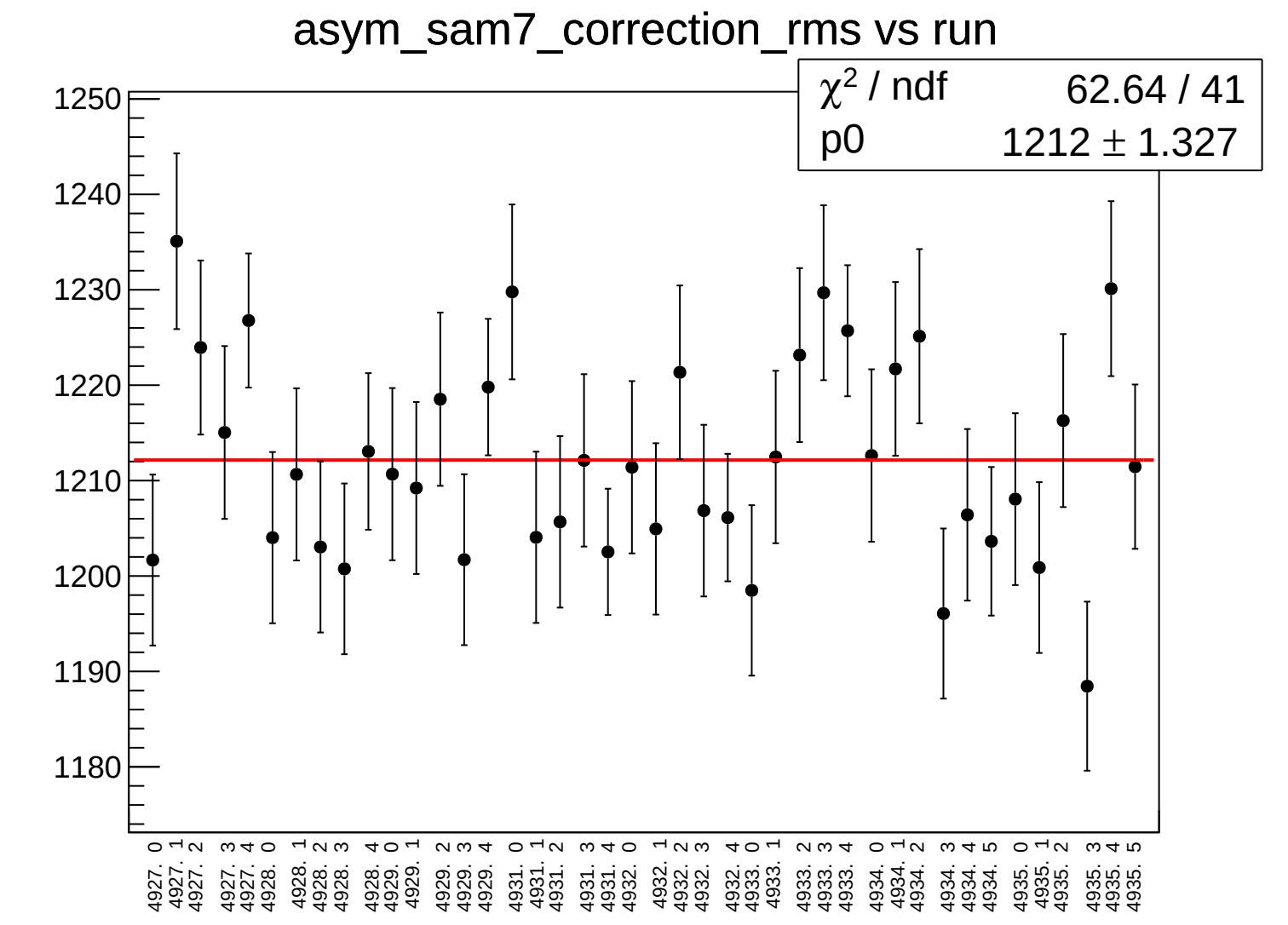

reg_asym_sam7_mean vs run
χ² / ndf 41.07 / 41
p0 1844 ± 486
10000
5000
0
−5000
−10000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −46.57
Std Dev 71.79
2
1
0
−1
−2
−3

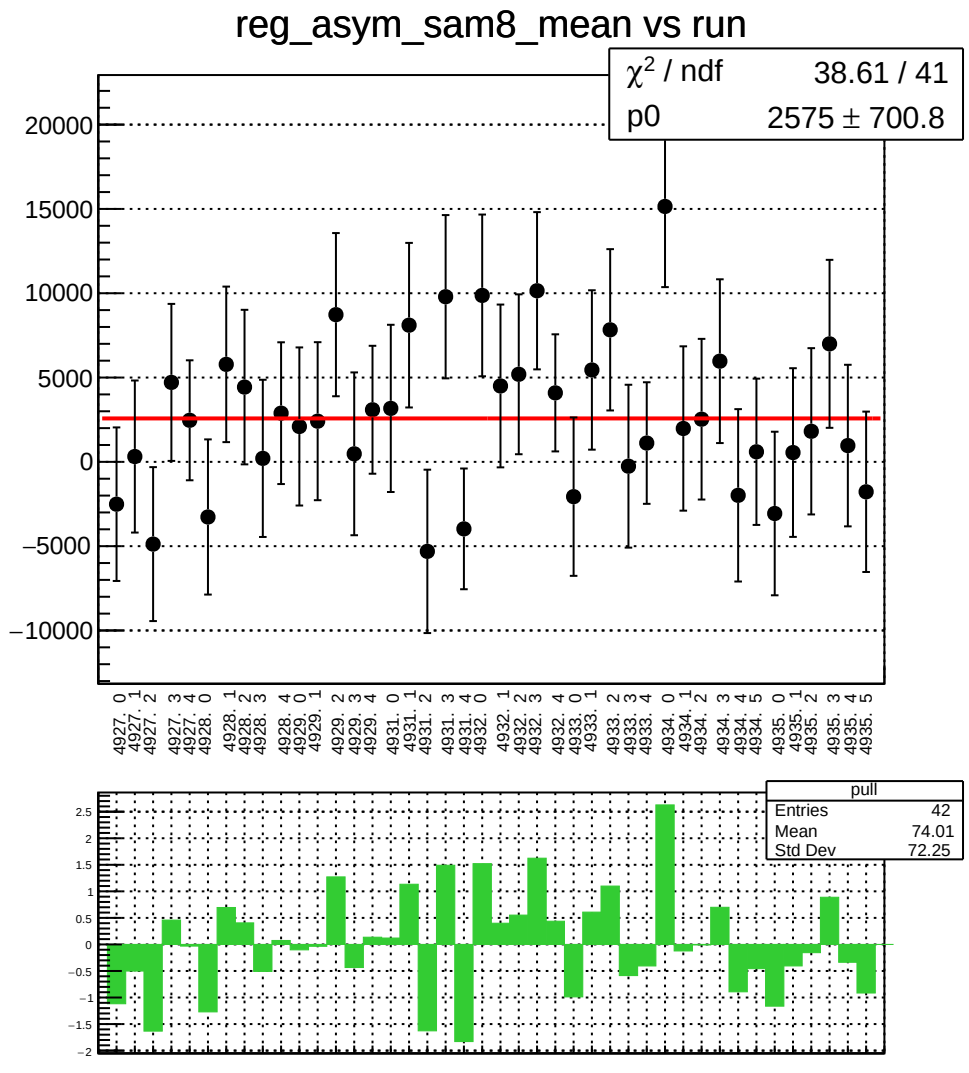

pull1D
Entries 42
Mean 0.02047
Std Dev 0.9886
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

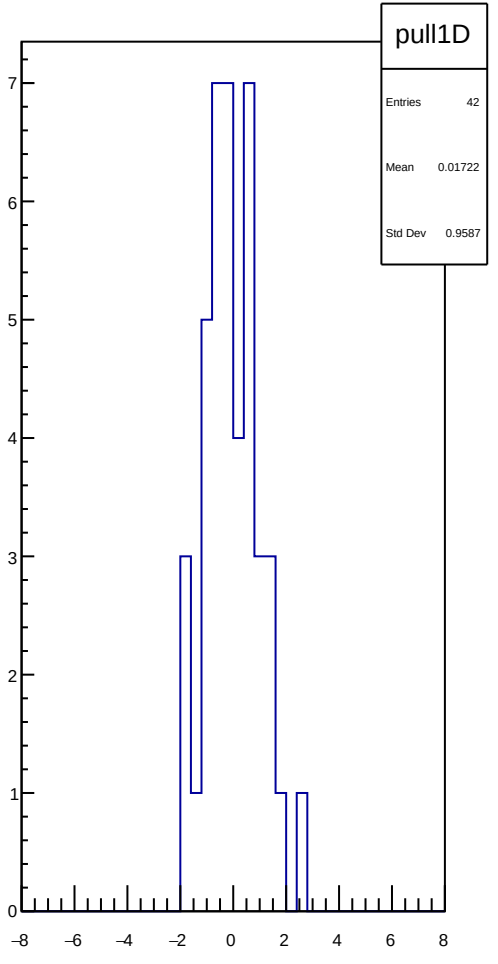

reg_asym_sam7_rms vs run
χ² / ndf 5776 / 41
p0 312.9 ± 0.3437
380
360
340
320
300
280
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

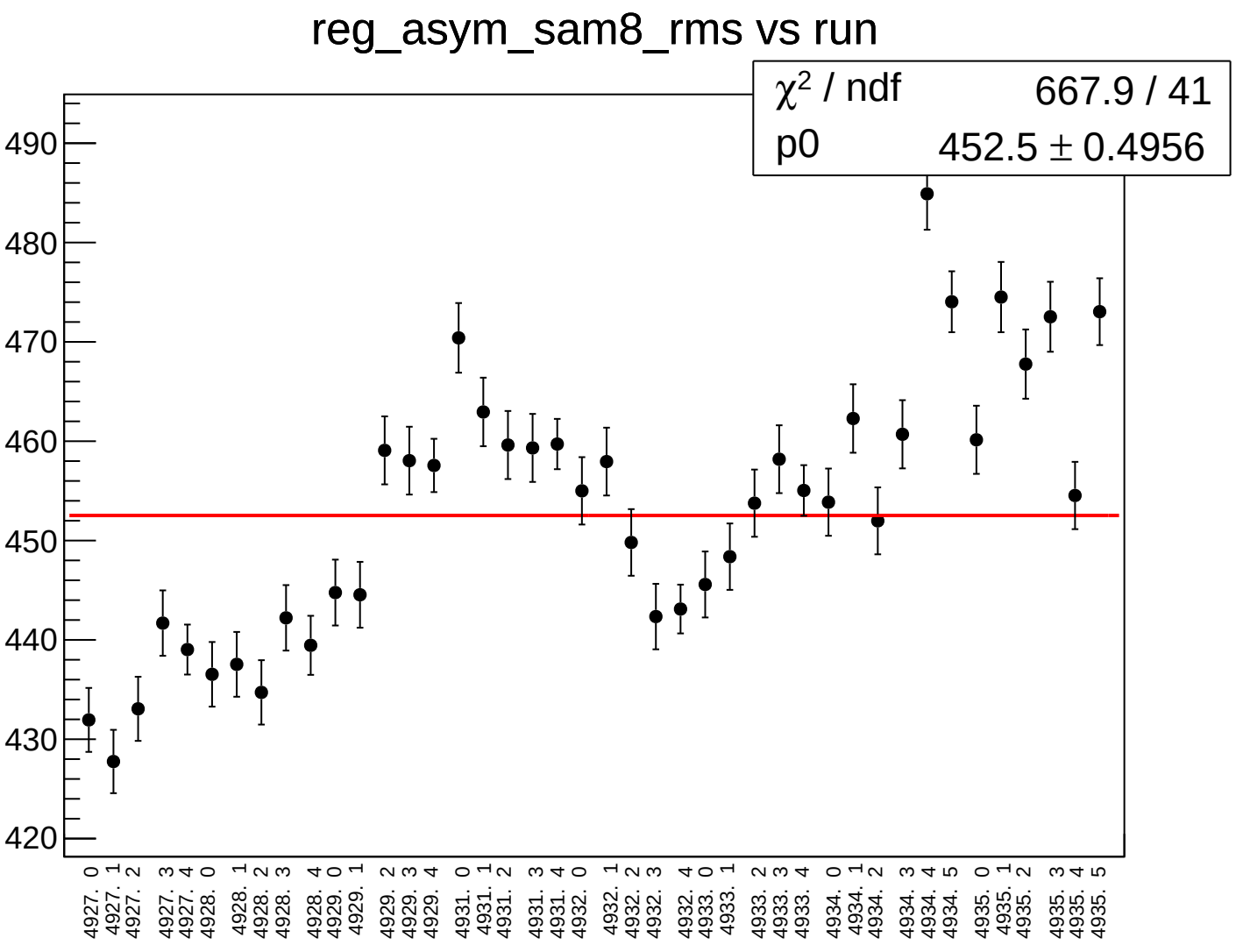

asym_sam7_correction_mean vs run
χ² / ndf 34.95 / 41
p0 3373 ± 1877
40000
20000
0
−20000
−40000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 93
Std Dev 86.64
2
1
0
−1
−2

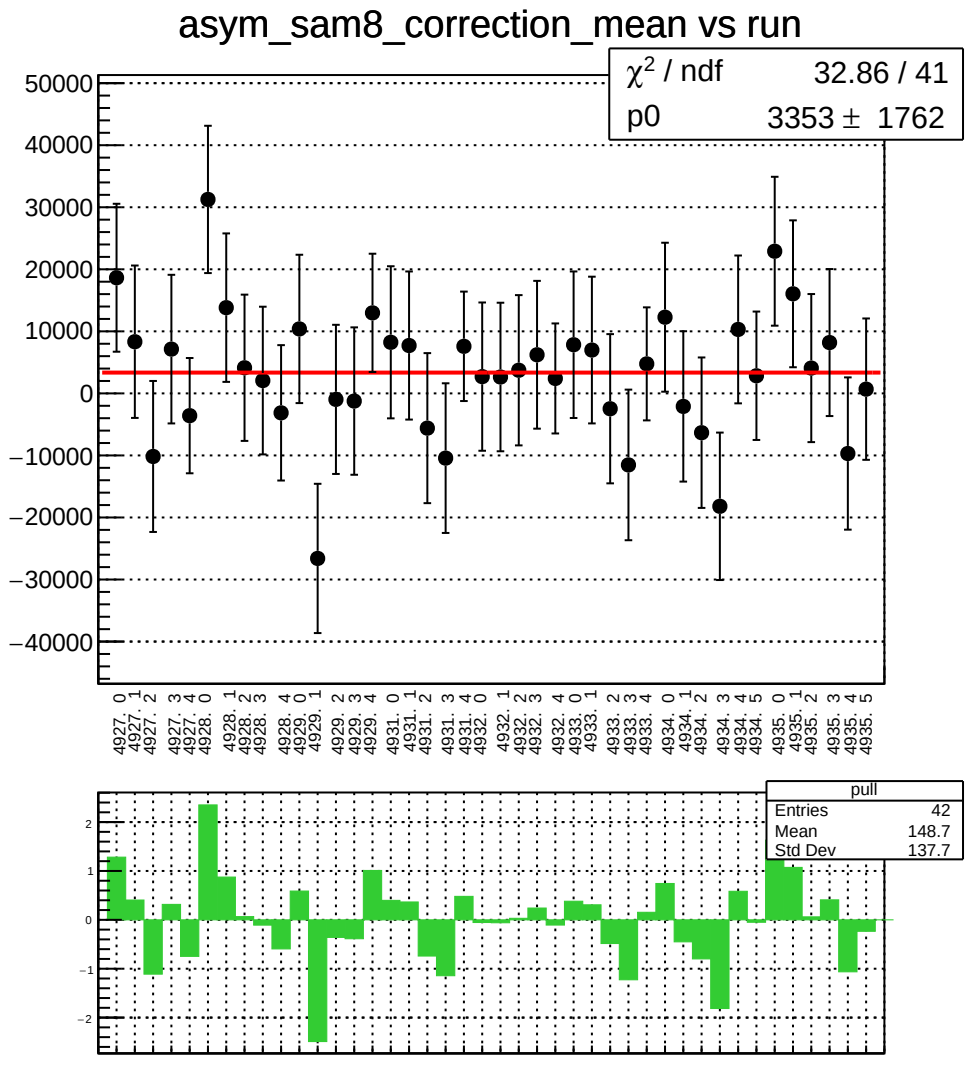

pull1D
Entries 42
Mean −0.007574
Std Dev 0.9122
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

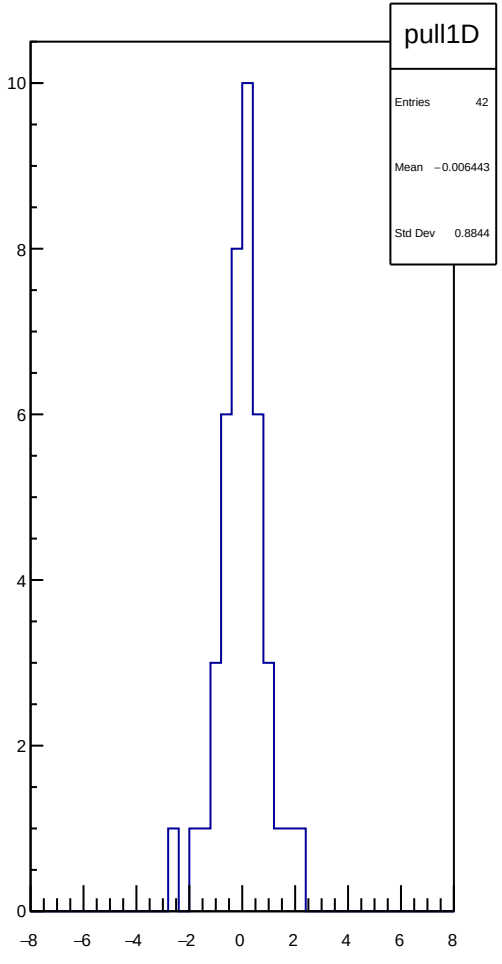

asym_sam7_correction_rms vs run
χ² / ndf 62.64 / 41
p0 1212 ± 1.327
1250
1240
1230
1220
1210
1200
1190
1180
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

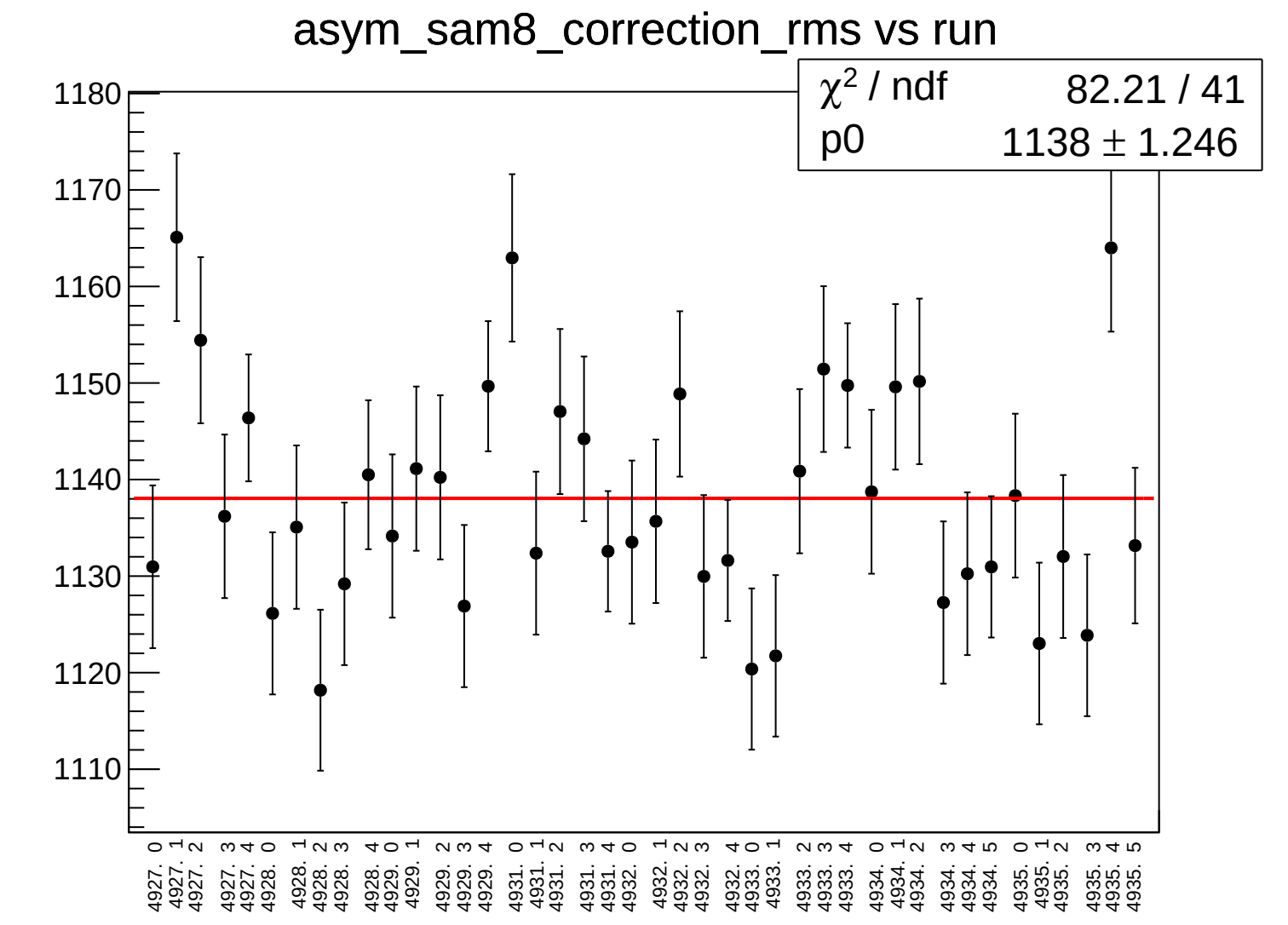

reg_asym_sam8_mean vs run
χ² / ndf 38.61 / 41
p0 2575 ± 700.8
20000
15000
10000
5000
0
−5000
−10000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 74.01
Std Dev 72.25
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

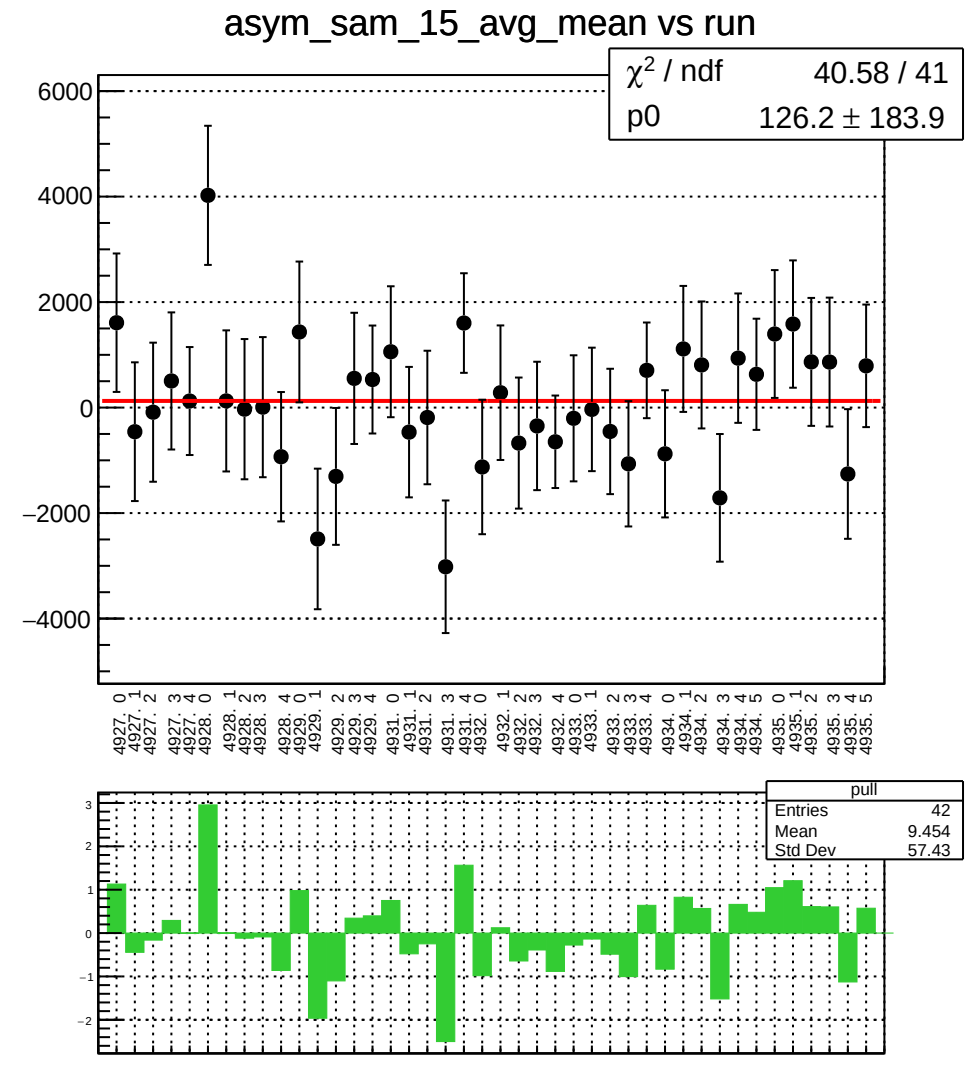

pull1D
Entries 42
Mean 0.01722
Std Dev 0.9587
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

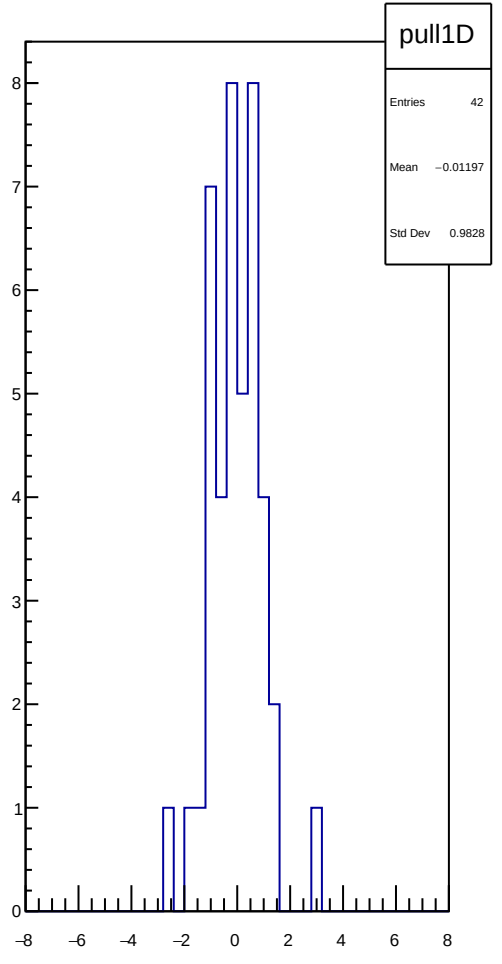

reg_asym_sam8_rms vs run
χ² / ndf 667.9 / 41
p0 452.5 ± 0.4956
490
480
470
460
450
440
430
420
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

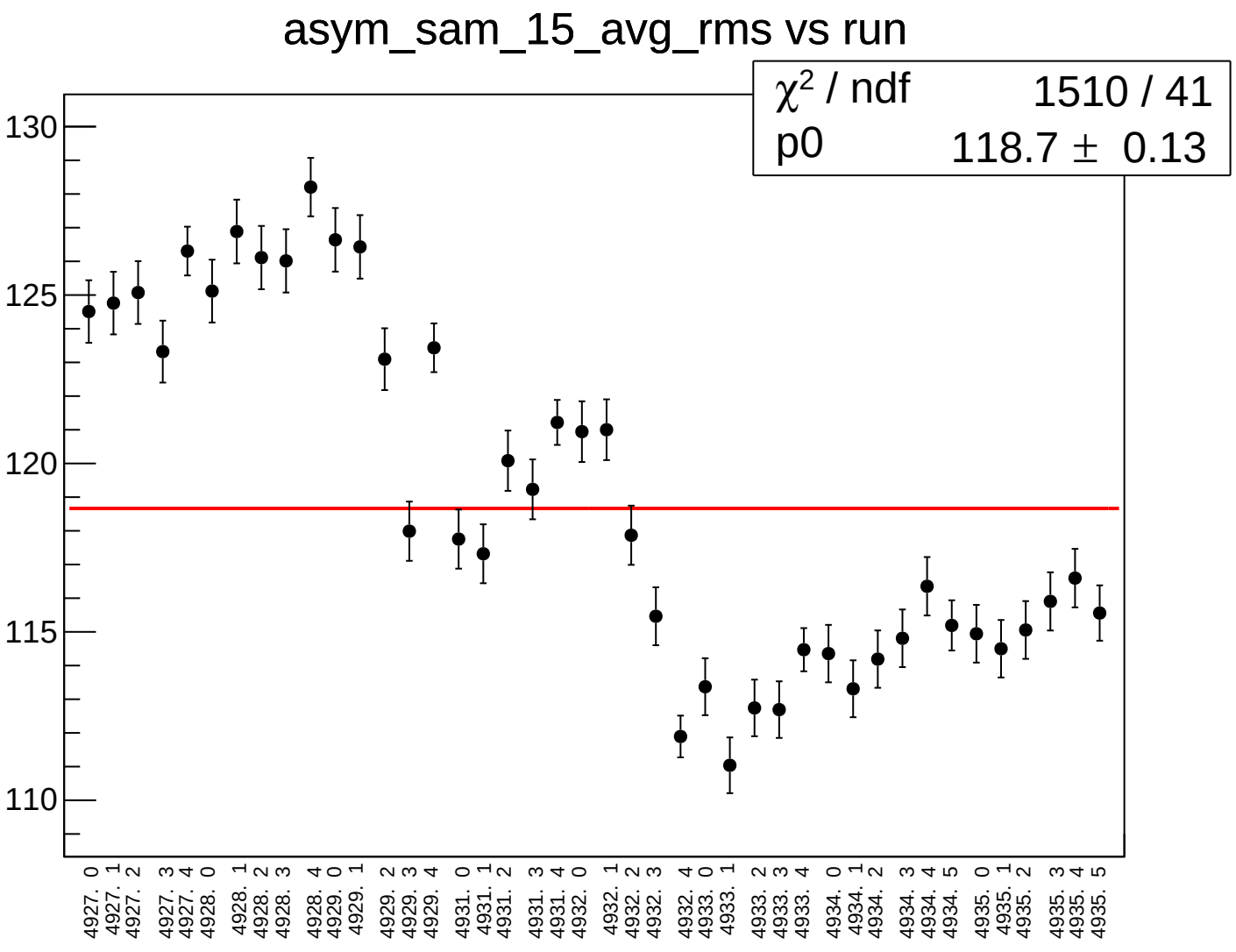

asym_sam8_correction_mean vs run
χ² / ndf 32.86 / 41
p0 3353 ± 1762
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 148.7
Std Dev 137.7
2
1
0
−1
−2

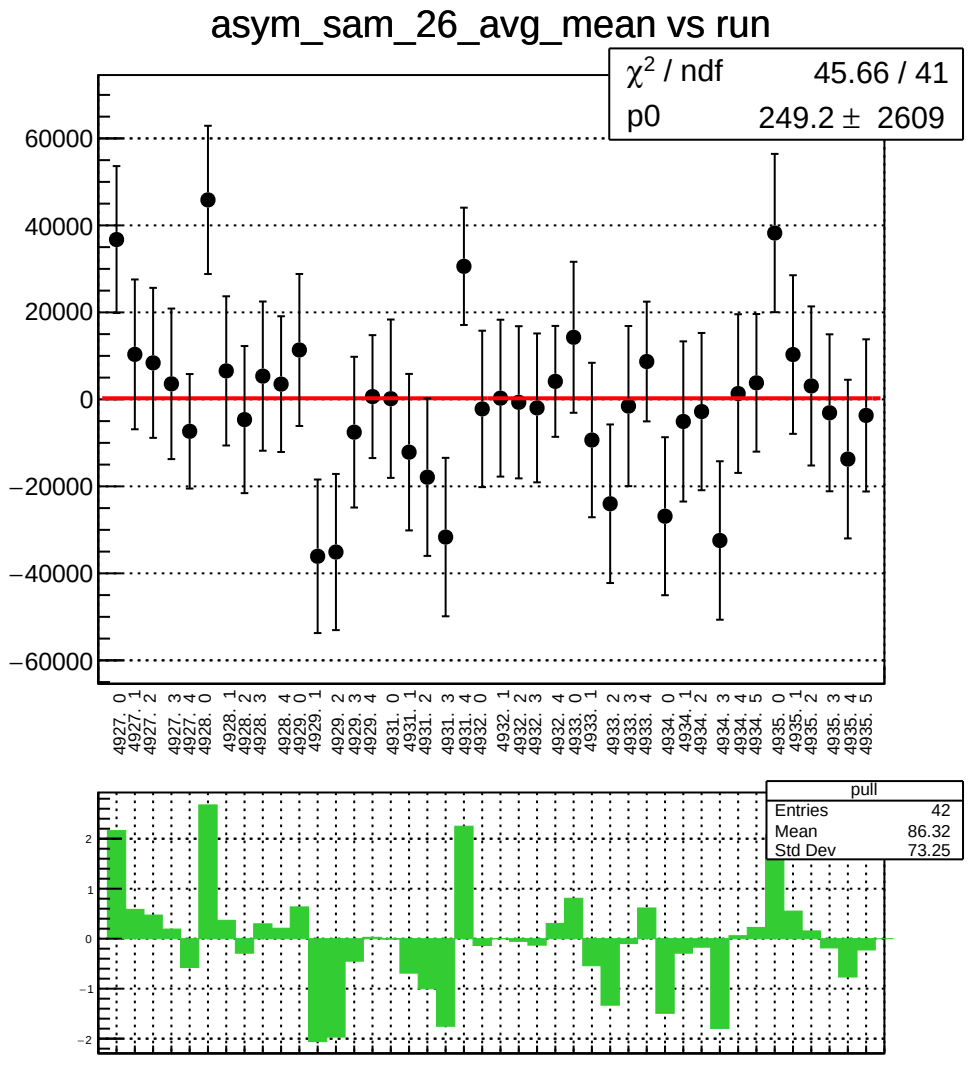

pull1D
Entries 42
Mean −0.006443
Std Dev 0.8844
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

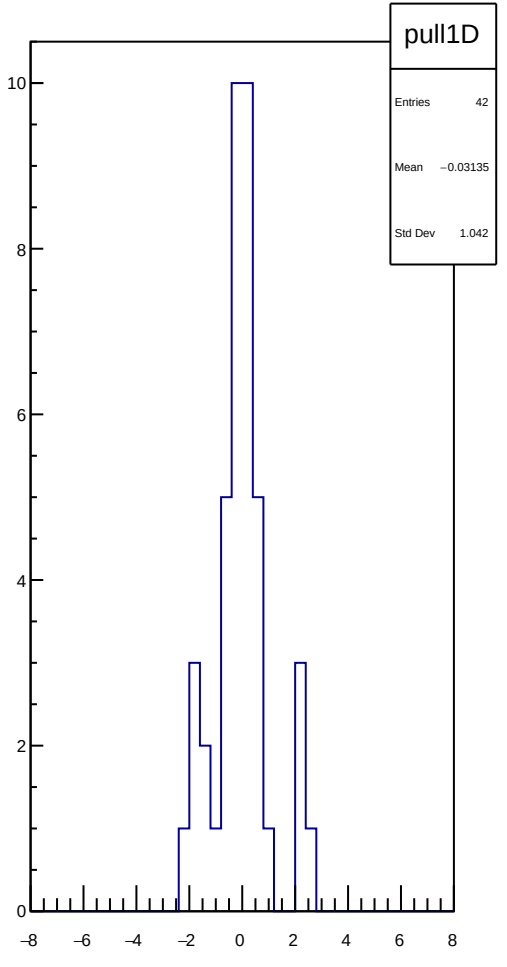

asym_sam8_correction_rms vs run
χ² / ndf 82.21 / 41
p0 1138 ± 1.246
1180
1170
1160
1150
1140
1130
1120
1110
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

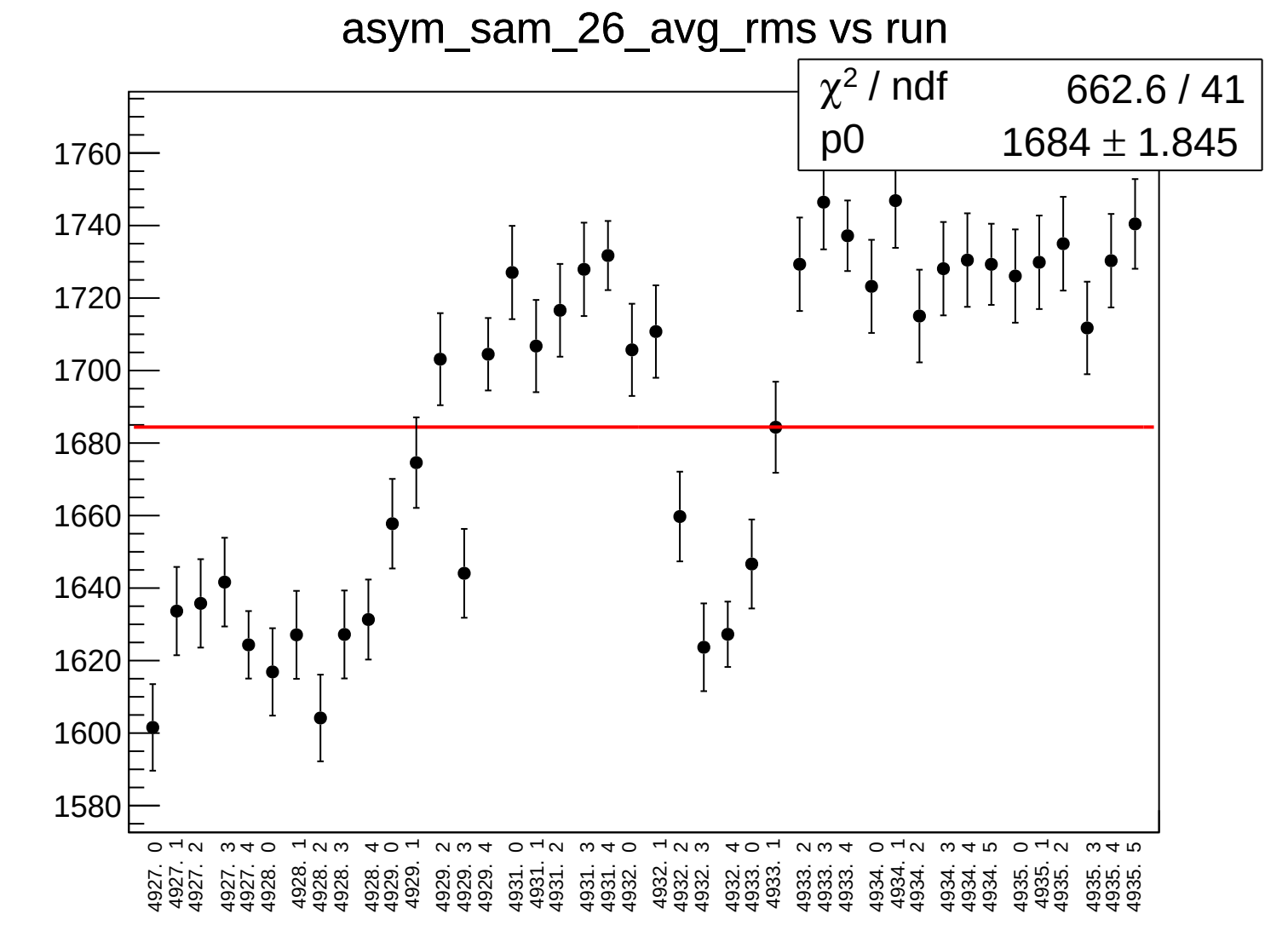

asym_sam_15_avg_mean vs run
χ² / ndf 40.58 / 41
p0 126.2 ± 183.9
6000
4000
2000
0
−2000
−4000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 9.454
Std Dev 57.43
3
2
1
0
−1
−2

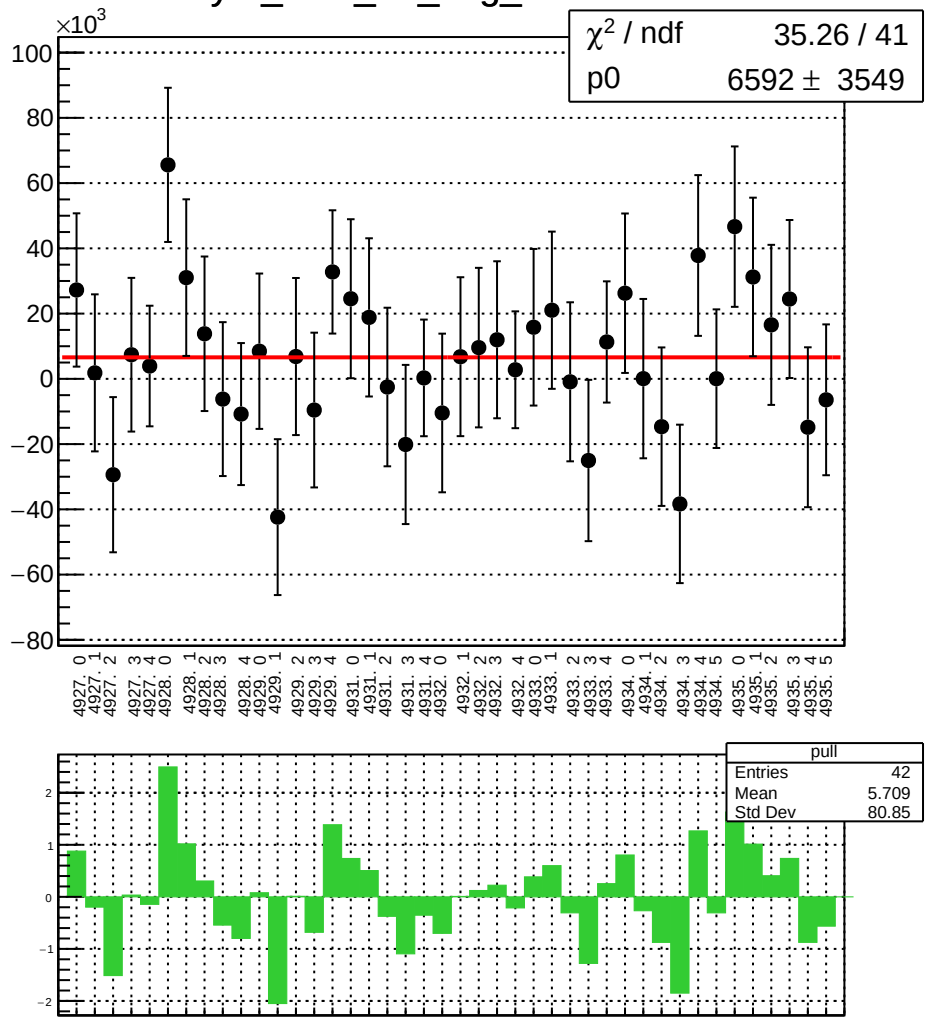

pull1D
Entries 42
Mean −0.01197
Std Dev 0.9828
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

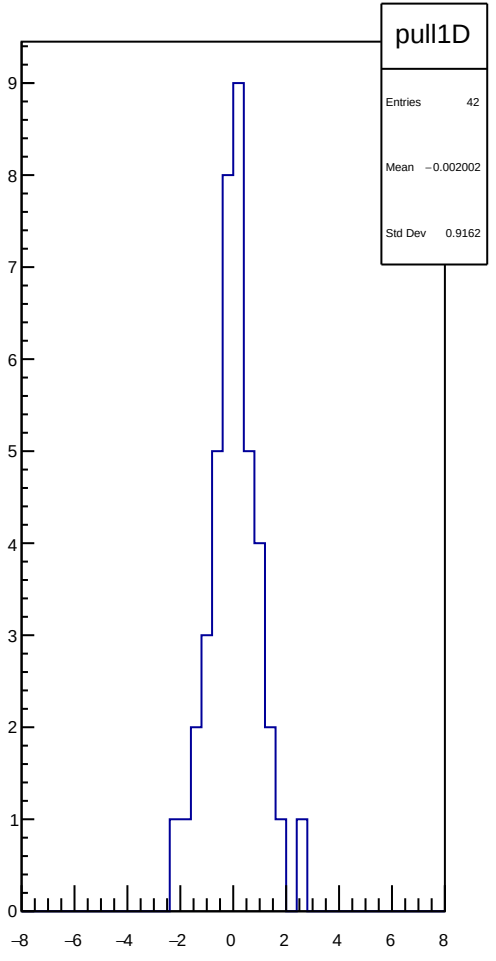

asym_sam_15_avg_rms vs run
χ^2 / ndf 1510 / 41
p0 118.7 ± 0.13
130
125
120
115
110
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

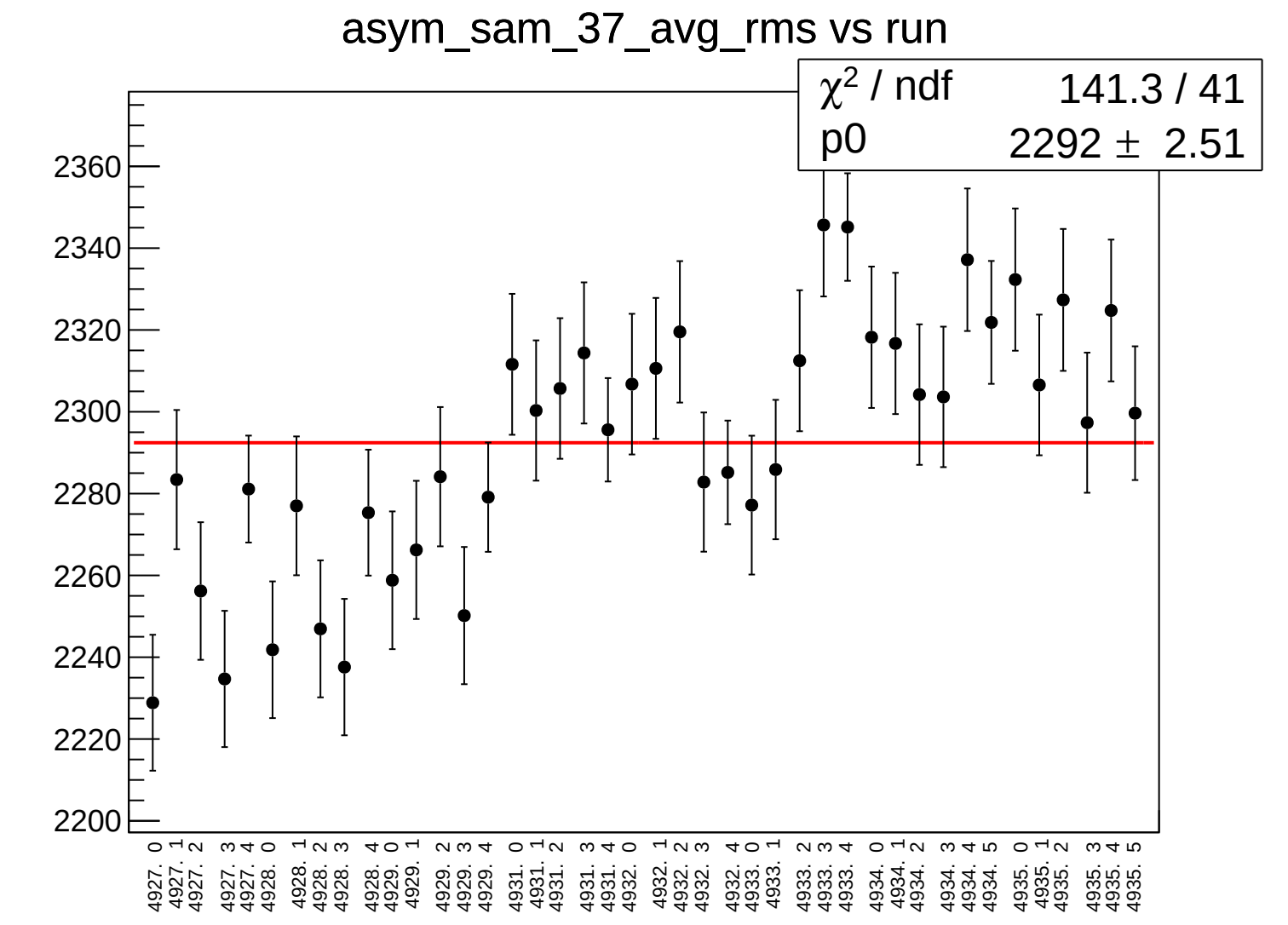

asym_sam_26_avg_mean vs run
χ² / ndf 45.66 / 41
p0 249.2 ± 2609
60000
40000
20000
0
−20000
−40000
−60000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 86.32
Std Dev 73.25
2
1
0
−1
−2

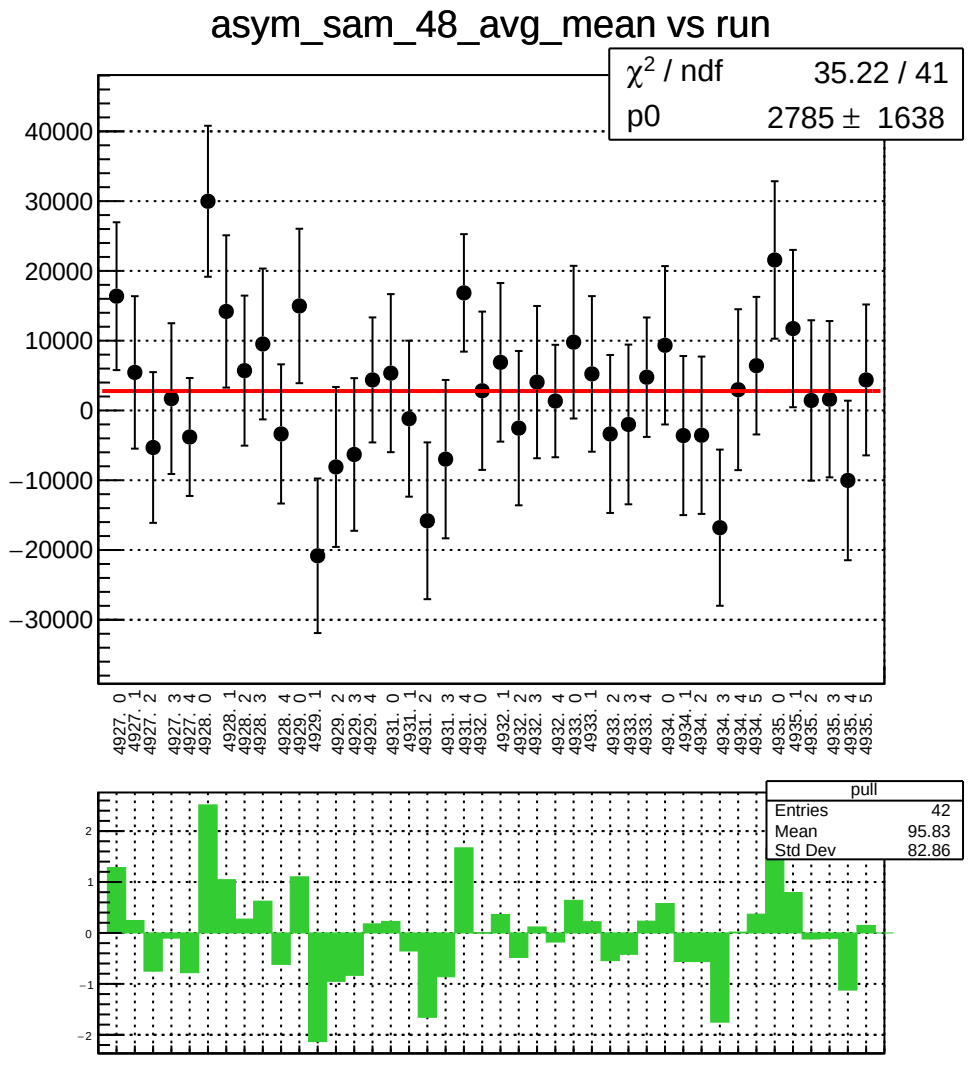

pull1D
Entries 42
Mean −0.03135
Std Dev 1.042
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

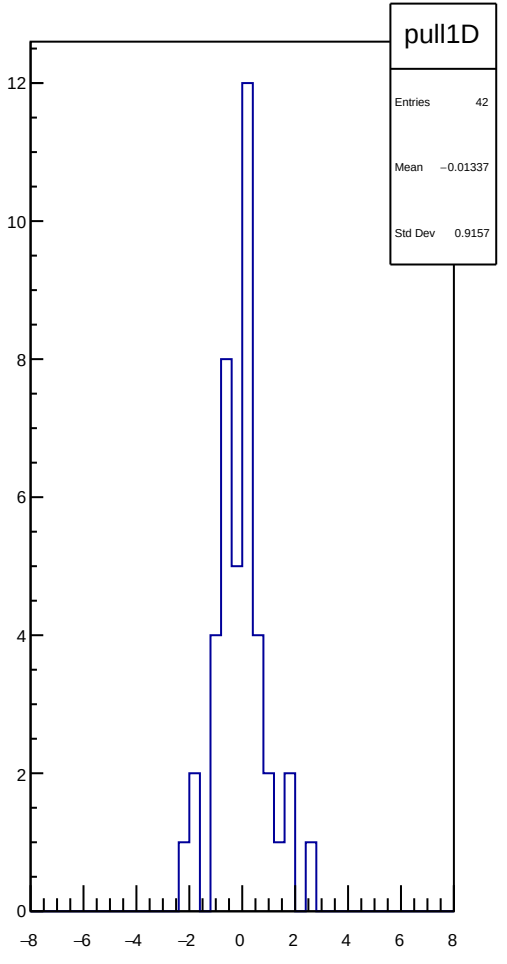

asym_sam_26_avg_rms vs run
χ² / ndf 662.6 / 41
p0 1684 ± 1.845
1760
1740
1720
1700
1680
1660
1640
1620
1600
1580
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

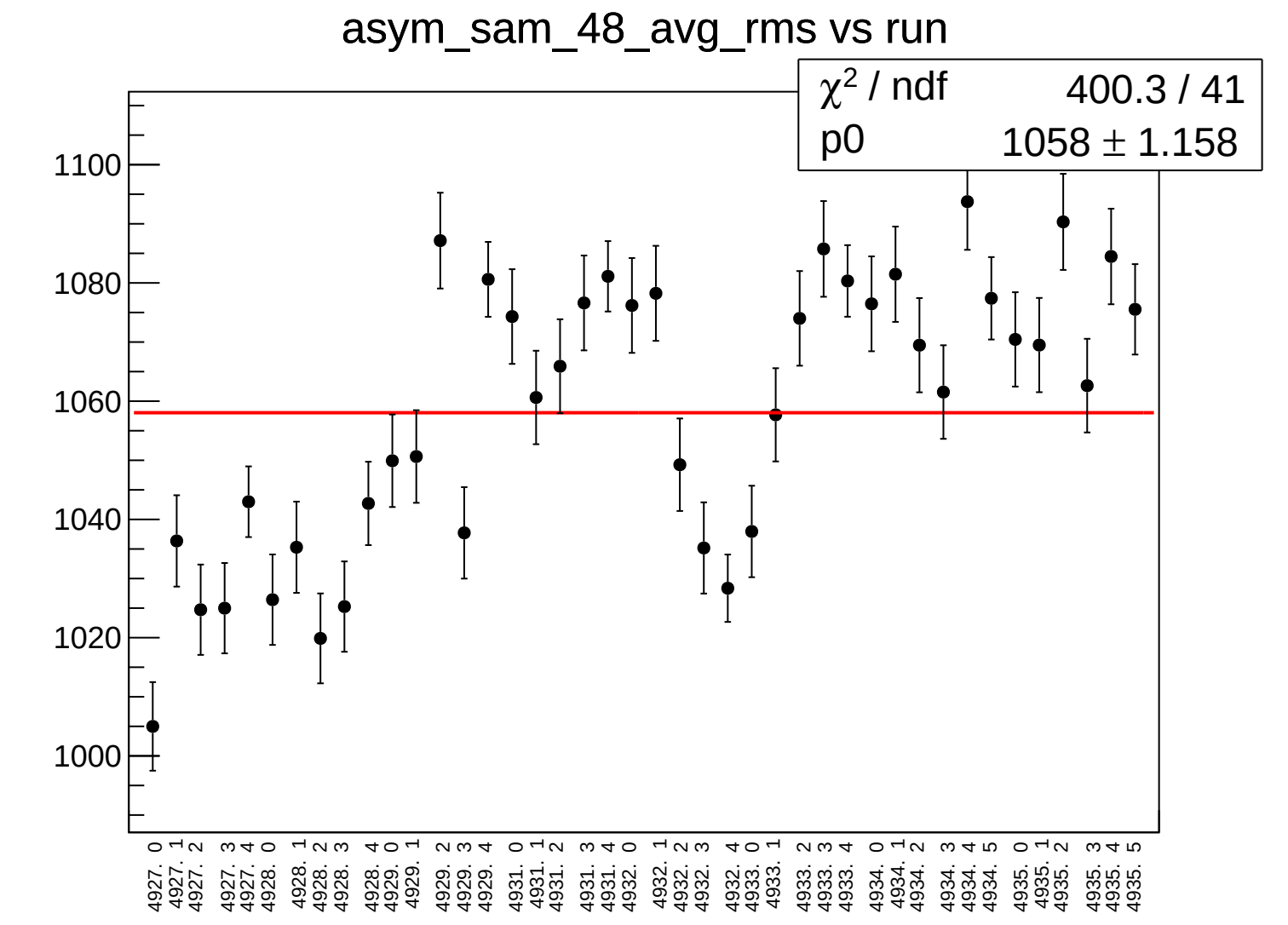

asym_sam_37_avg_mean vs run
×10^3
χ² / ndf 35.26 / 41
p0 6592 ± 3549
pull
Entries 42
Mean 5.709
Std Dev 80.85

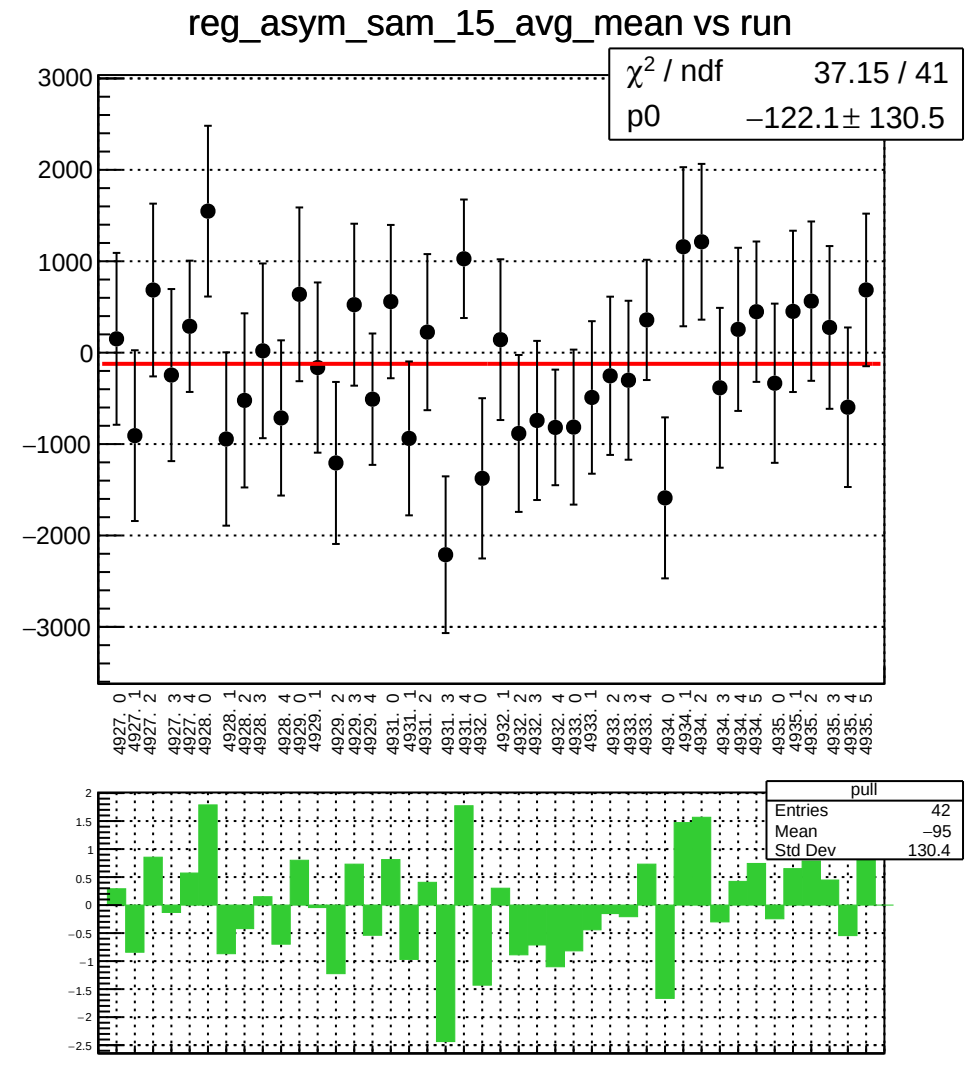

pull1D
Entries 42
Mean −0.002002
Std Dev 0.9162

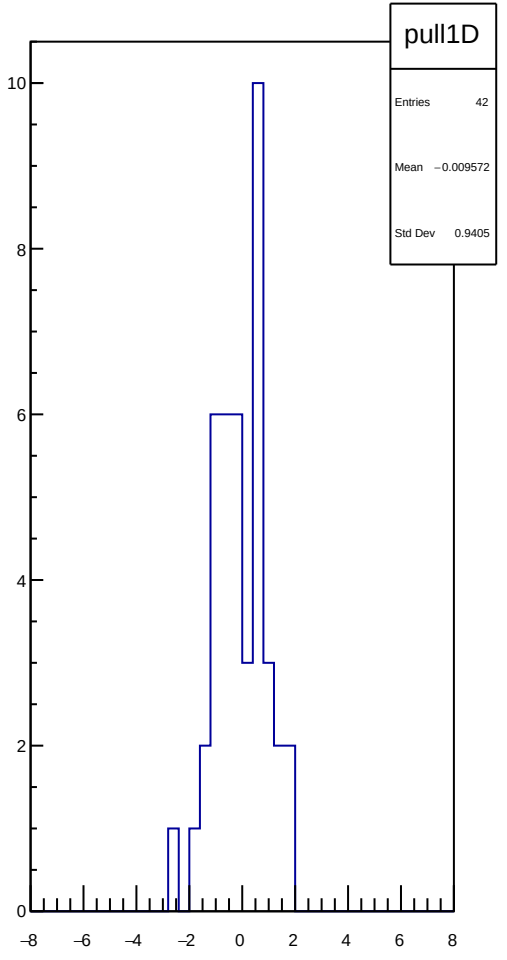

asym_sam_37_avg_rms vs run
χ² / ndf 141.3 / 41
p0 2292 ± 2.51
2360
2340
2320
2300
2280
2260
2240
2220
2200
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

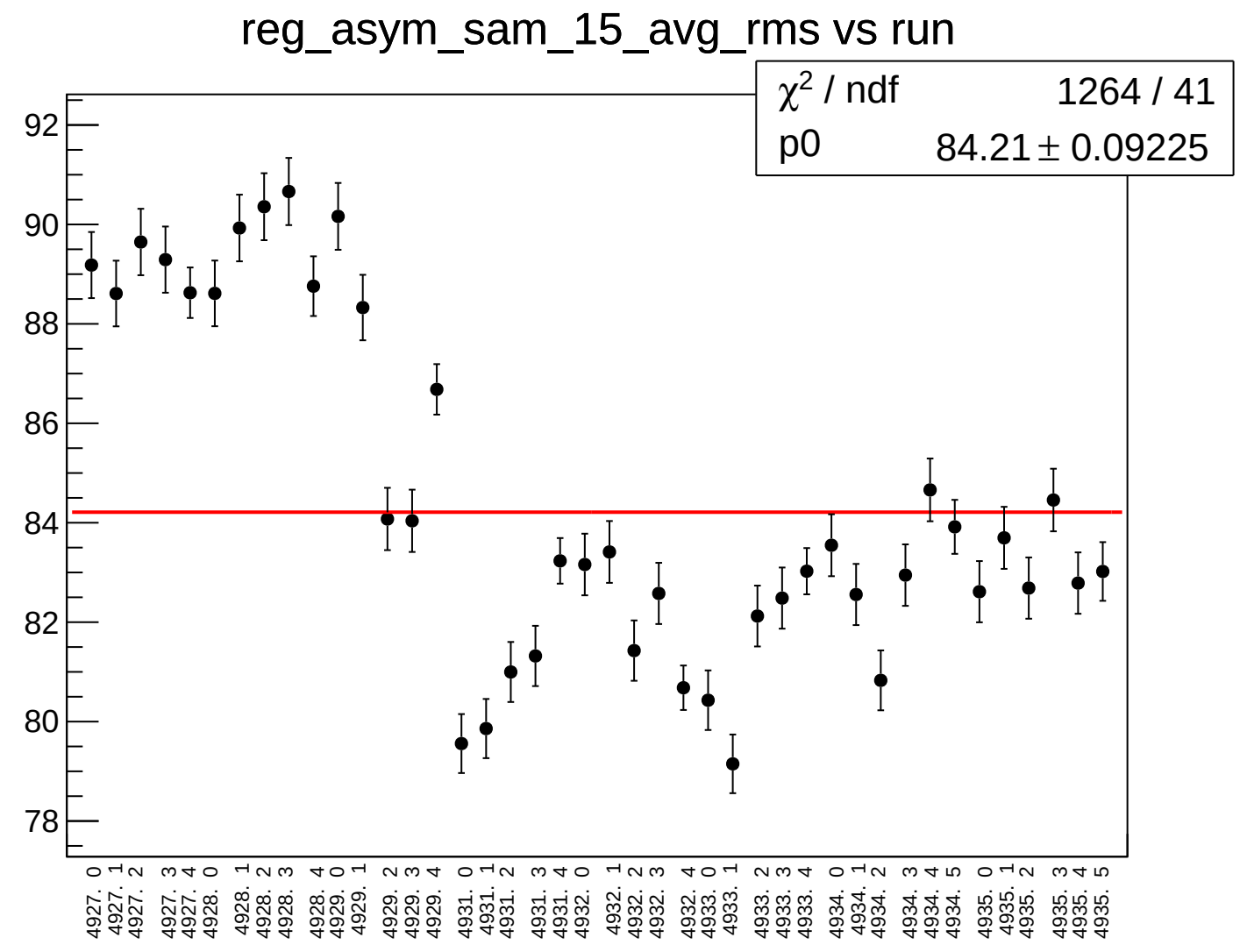

asym_sam_48_avg_mean vs run
χ² / ndf 35.22 / 41
p0 2785 ± 1638
40000
30000
20000
10000
0
−10000
−20000
−30000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 95.83
Std Dev 82.86
2
1
0
−1
−2

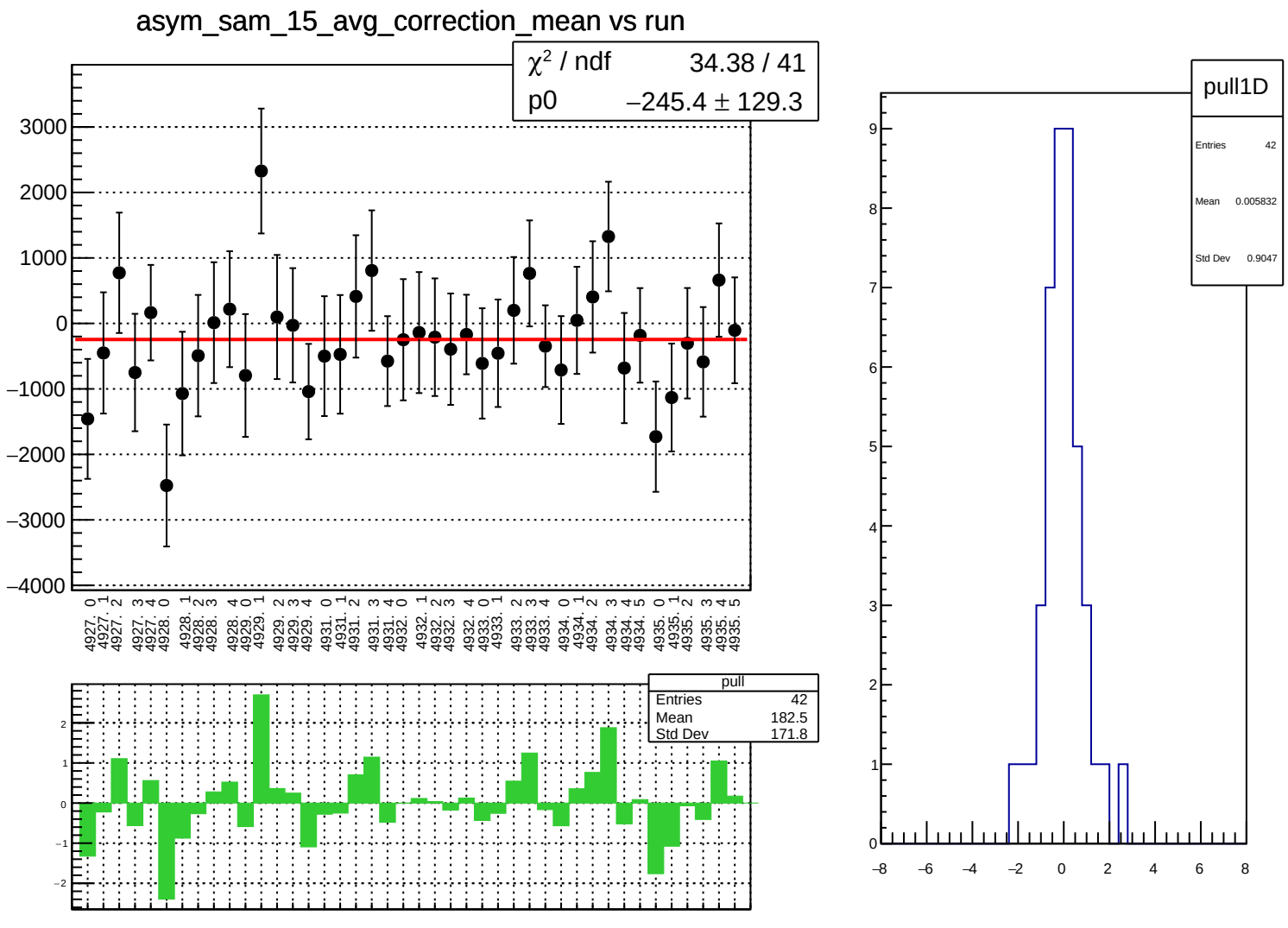

pull1D
Entries 42
Mean −0.01337
Std Dev 0.9157
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

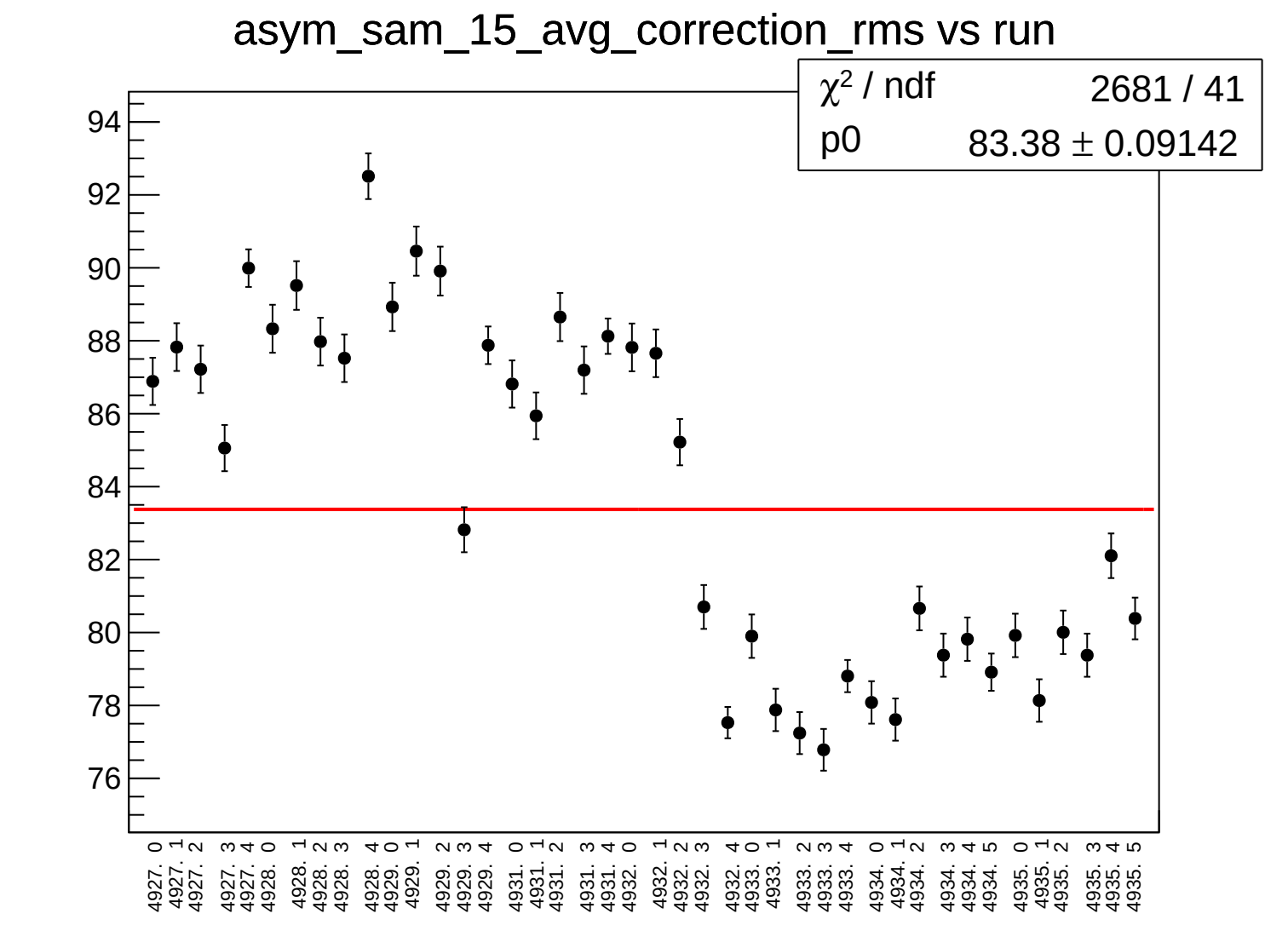

asym_sam_48_avg_rms vs run
χ² / ndf 400.3 / 41
p0 1058 ± 1.158
1100
1080
1060
1040
1020
1000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

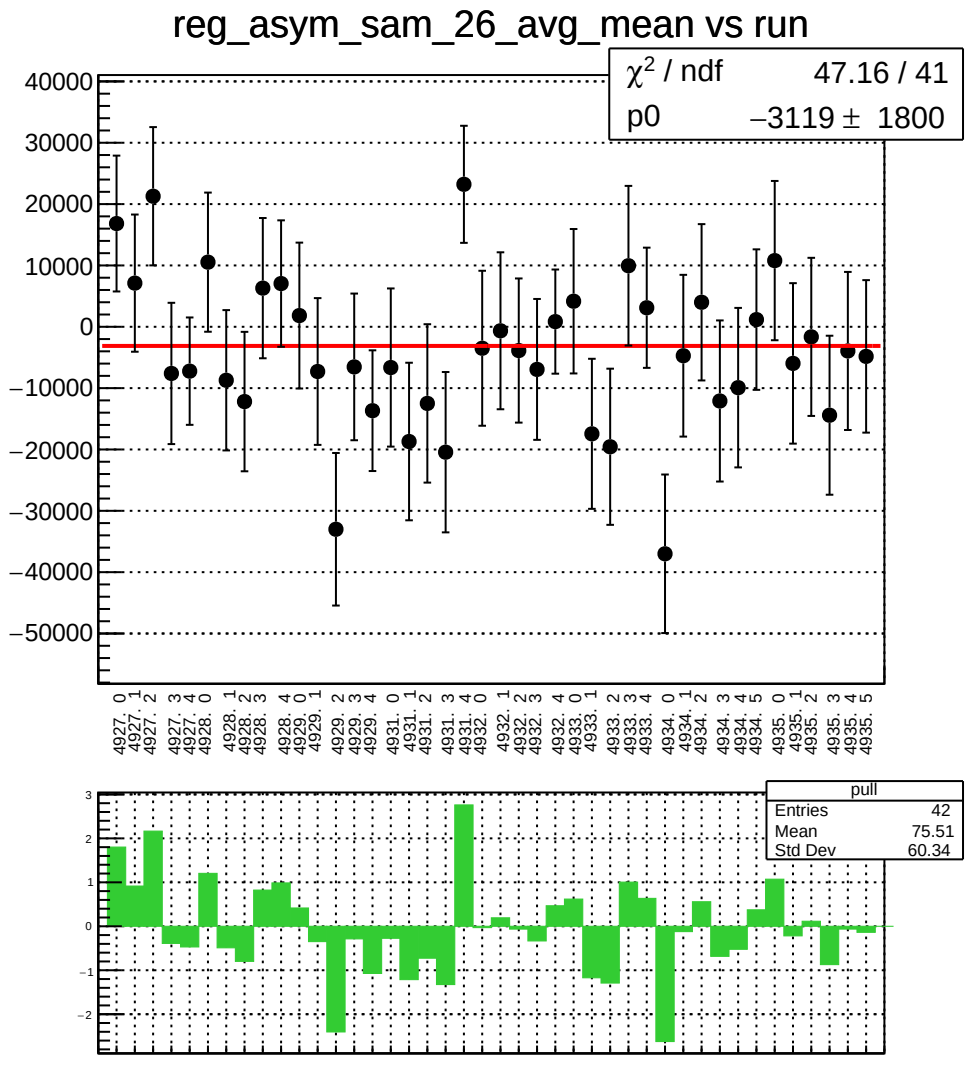

reg_asym_sam_15_avg_mean vs run
χ² / ndf 37.15 / 41
p0 −122.1± 130.5
3000
2000
1000
0
−1000
−2000
−3000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935.
pull
Entries 42
Mean −95
Std Dev 130.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

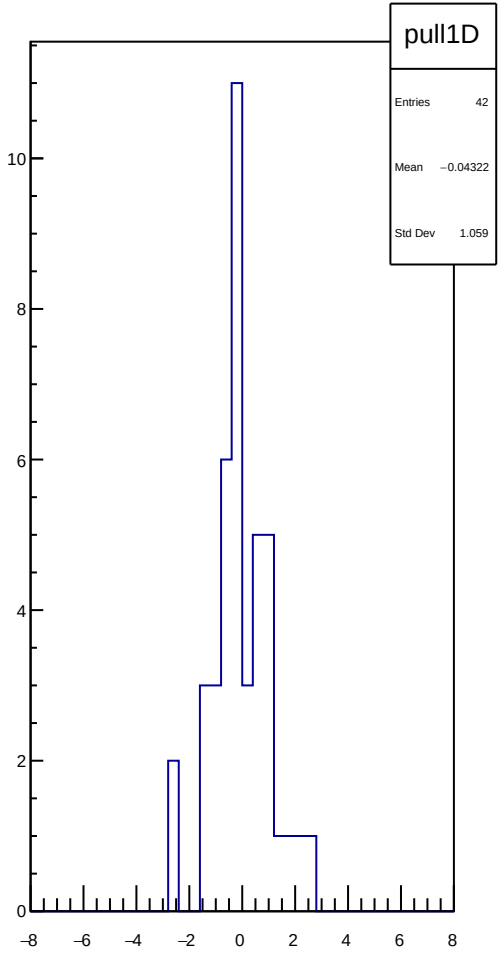

pull1D
Entries 42
Mean −0.009572
Std Dev 0.9405
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

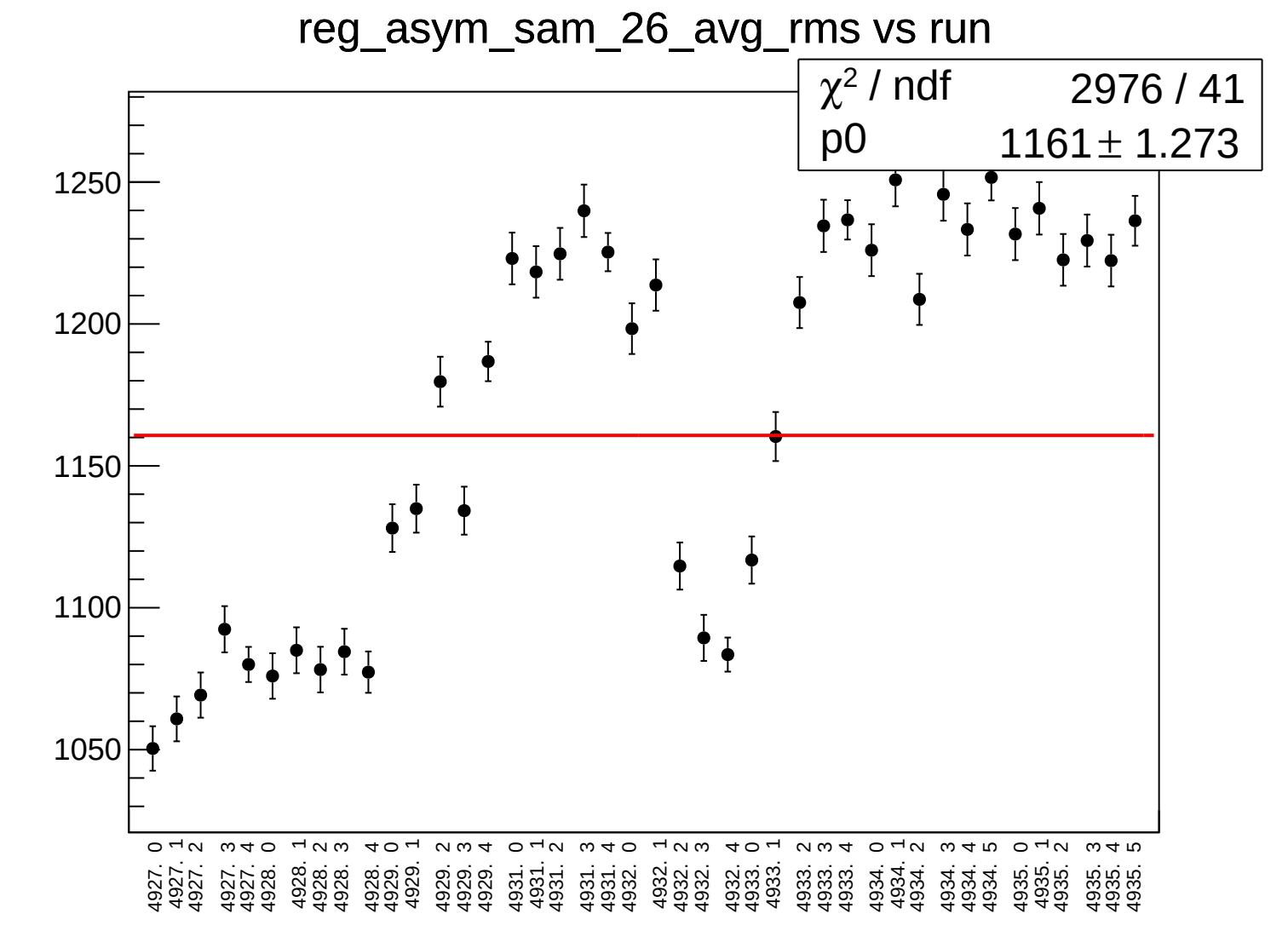

reg_asym_sam_15_avg_rms vs run
χ² / ndf 1264 / 41
p0 84.21 ± 0.09225
92
90
88
86
84
82
80
78
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

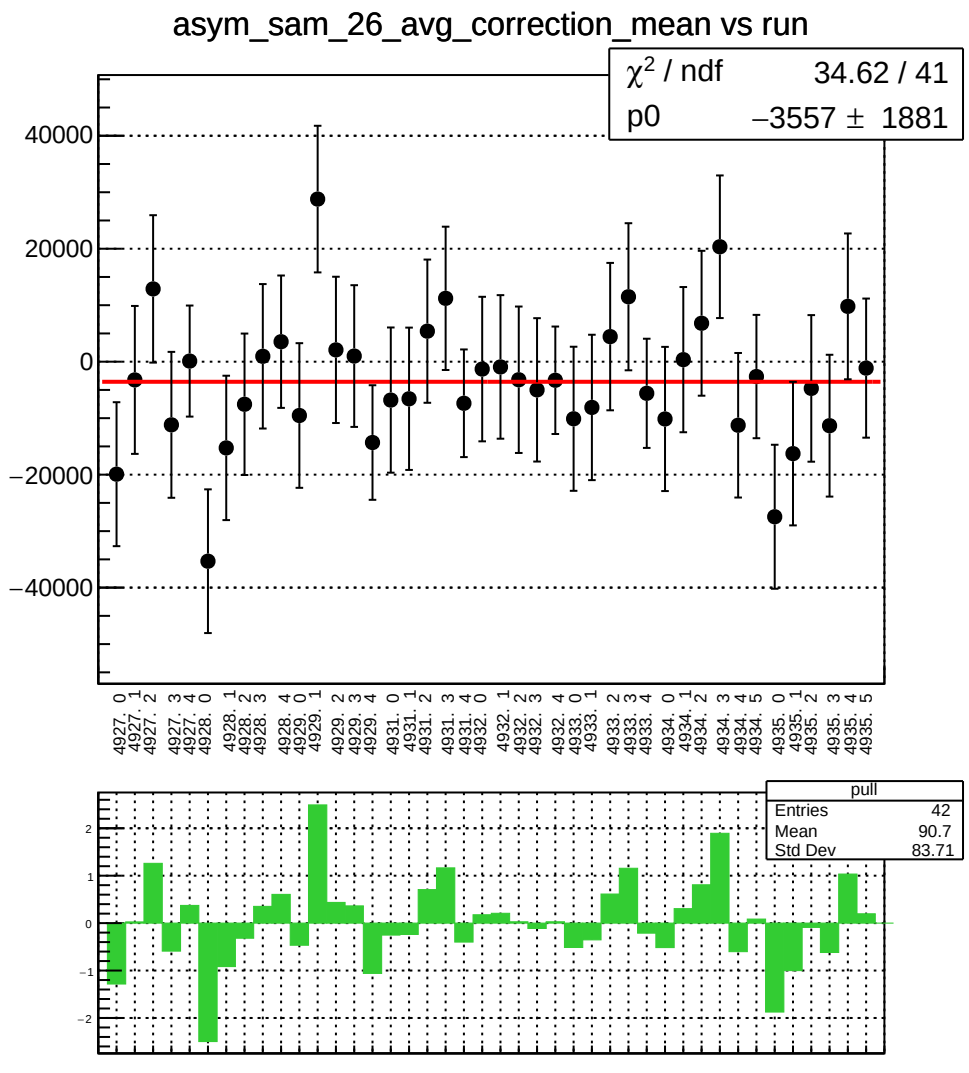

asym_sam_15_avg_correction_mean vs run
χ² / ndf 34.38 / 41
p0 −245.4 ± 129.3
3000
2000
1000
0
−1000
−2000
−3000
−4000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 182.5
Std Dev 171.8
2
1
0
−1
−2
pull1D
Entries 42
Mean 0.005832
Std Dev 0.9047
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

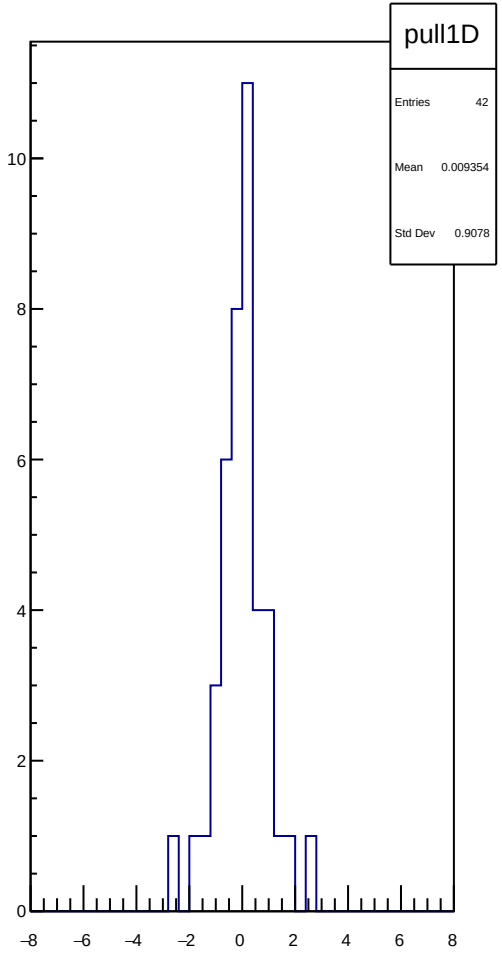

asym_sam_15_avg_correction_rms vs run
χ² / ndf 2681 / 41
p0 83.38 ± 0.09142
94
92
90
88
86
84
82
80
78
76
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

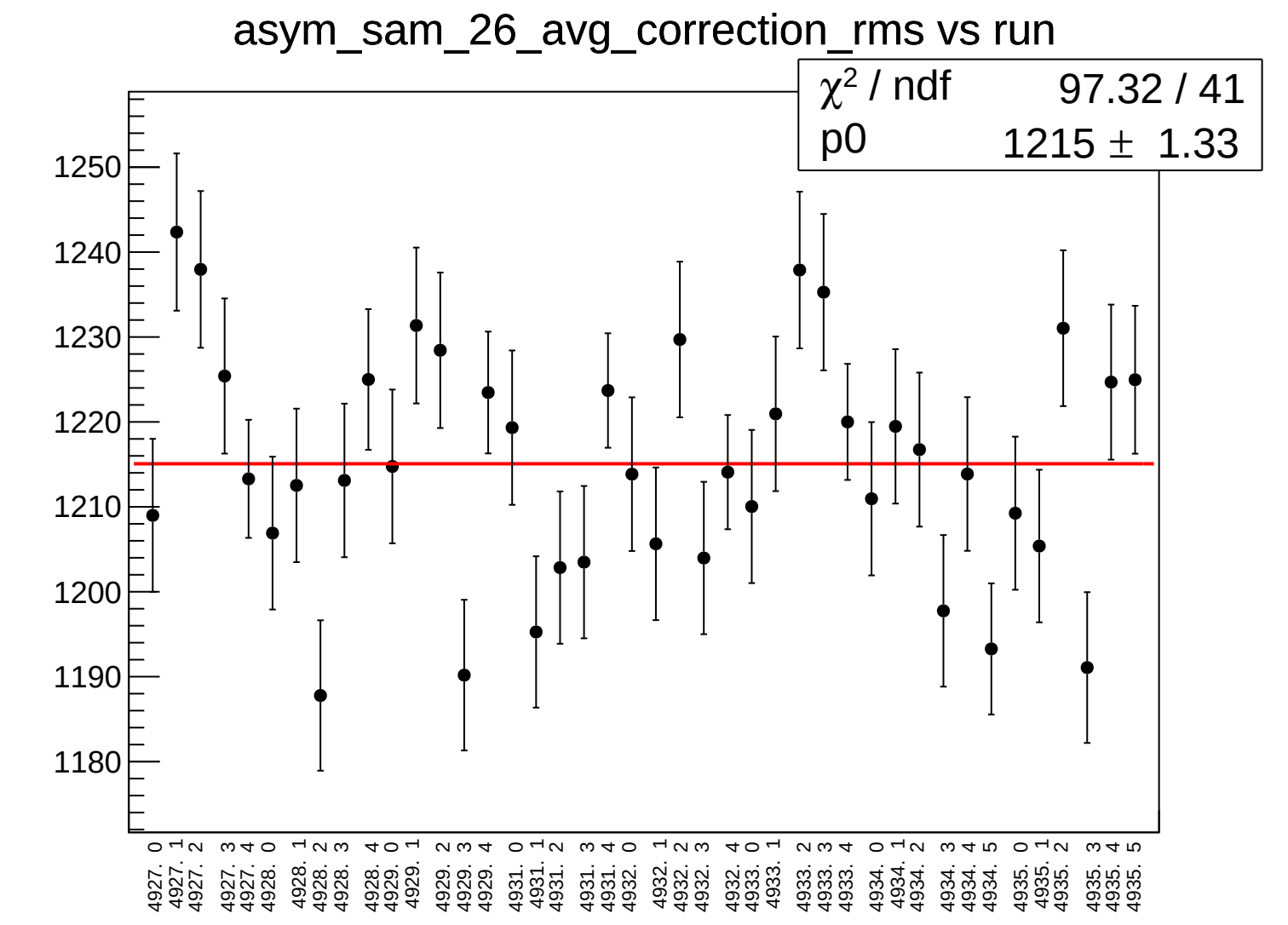

reg_asym_sam_26_avg_mean vs run
χ² / ndf 47.16 / 41
p0 −3119 ± 1800
pull
Entries 42
Mean 75.51
Std Dev 60.34

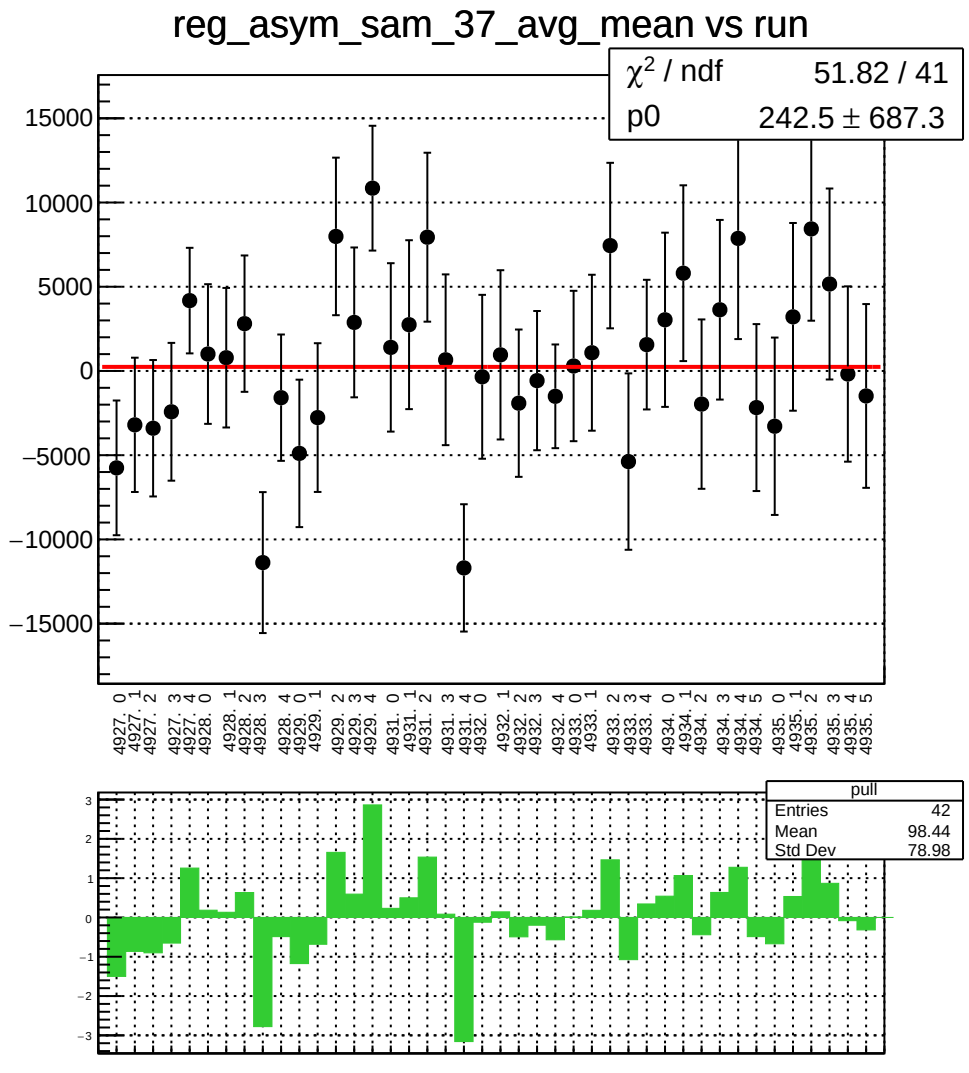

pull1D
Entries 42
Mean −0.04322
Std Dev 1.059

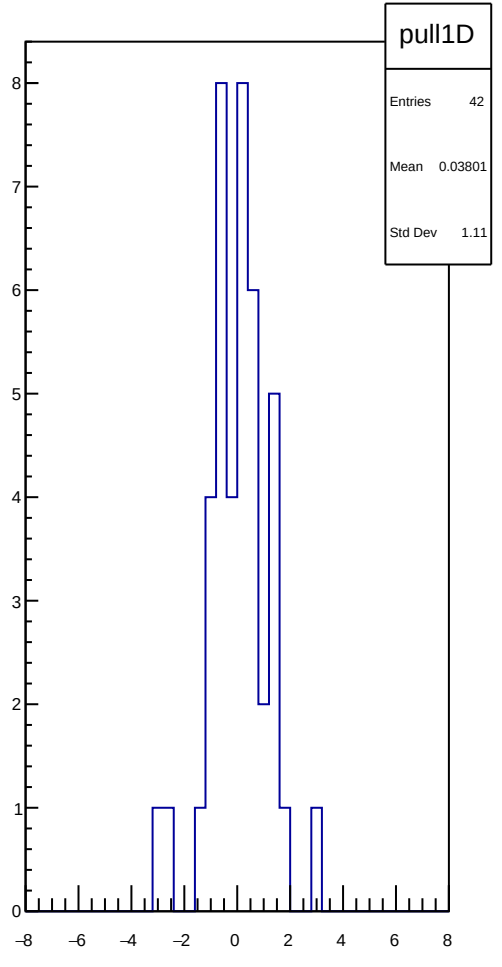

reg_asym_sam_26_avg_rms vs run
χ² / ndf 2976 / 41
p0 1161 ± 1.273
1250
1200
1150
1100
1050
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

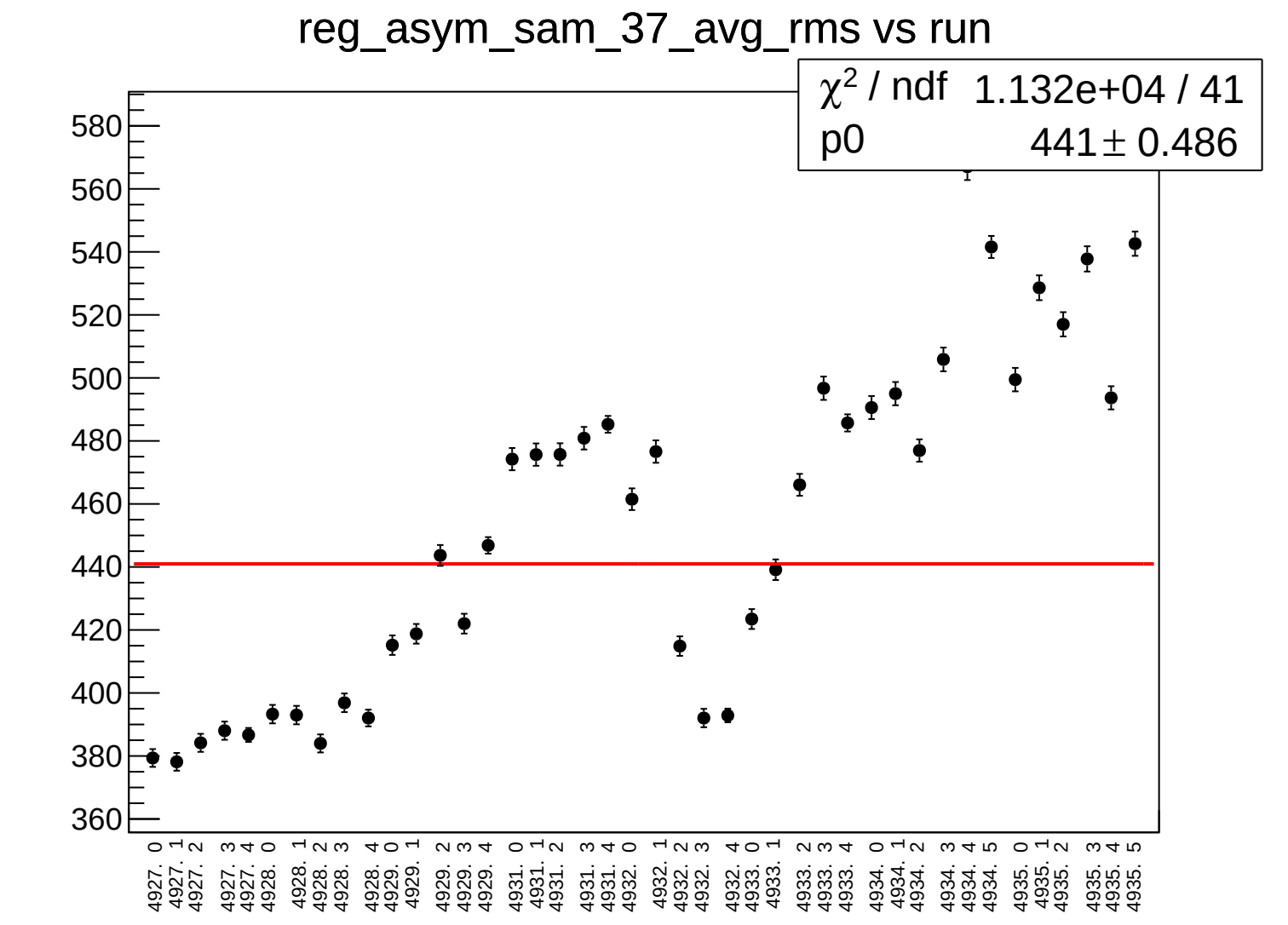

asym_sam_26_avg_correction_mean vs run
χ² / ndf 34.62 / 41
p0 −3557 ± 1881
40000
20000
0
−20000
−40000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 90.7
Std Dev 83.71
2
1
0
−1
−2

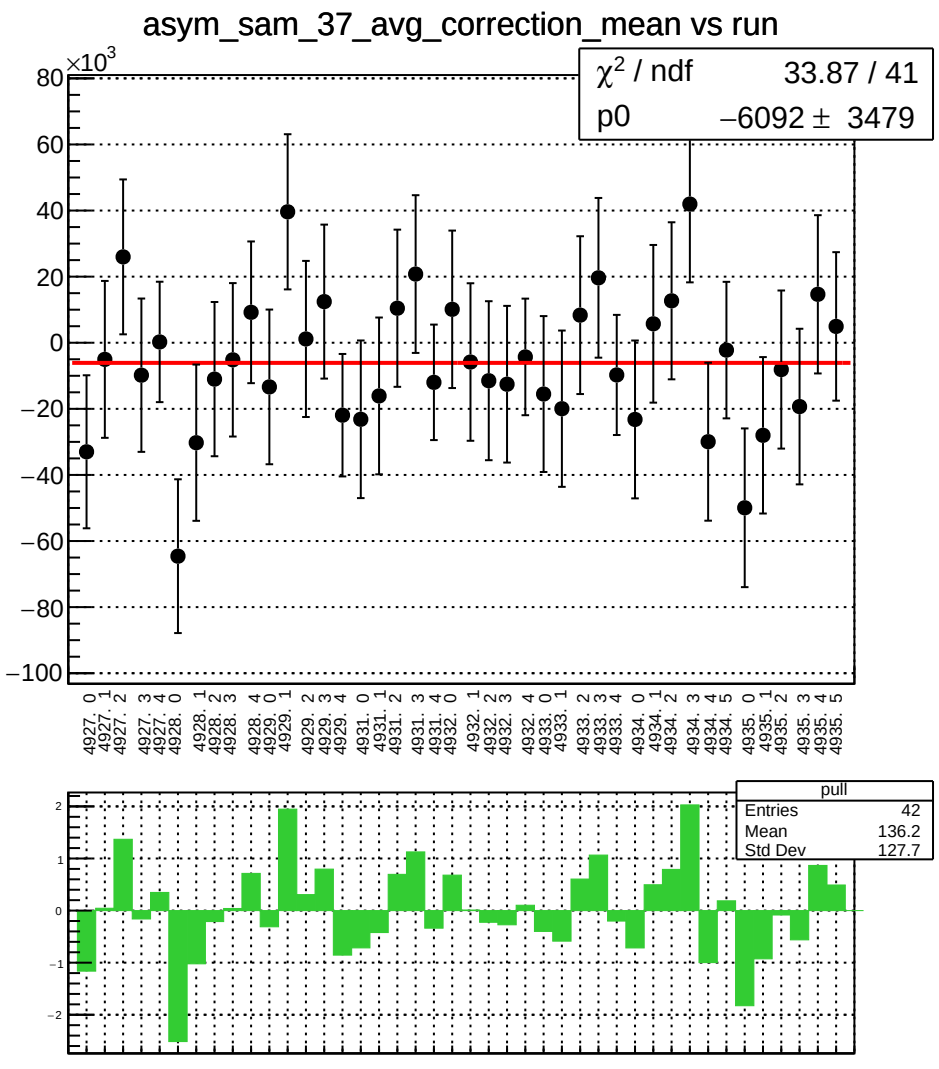

pull1D
Entries 42
Mean 0.009354
Std Dev 0.9078
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

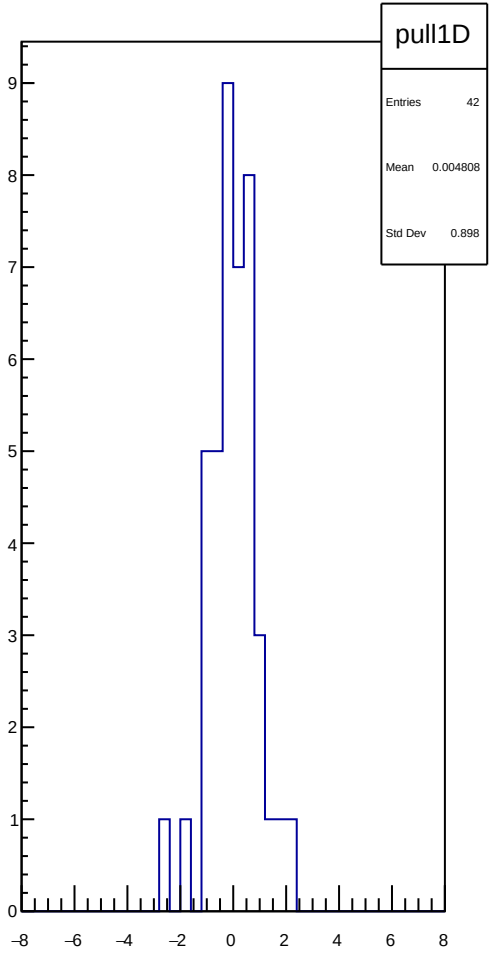

asym_sam_26_avg_correction_rms vs run
χ² / ndf 97.32 / 41
p0 1215 ± 1.33
1250
1240
1230
1220
1210
1200
1190
1180
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

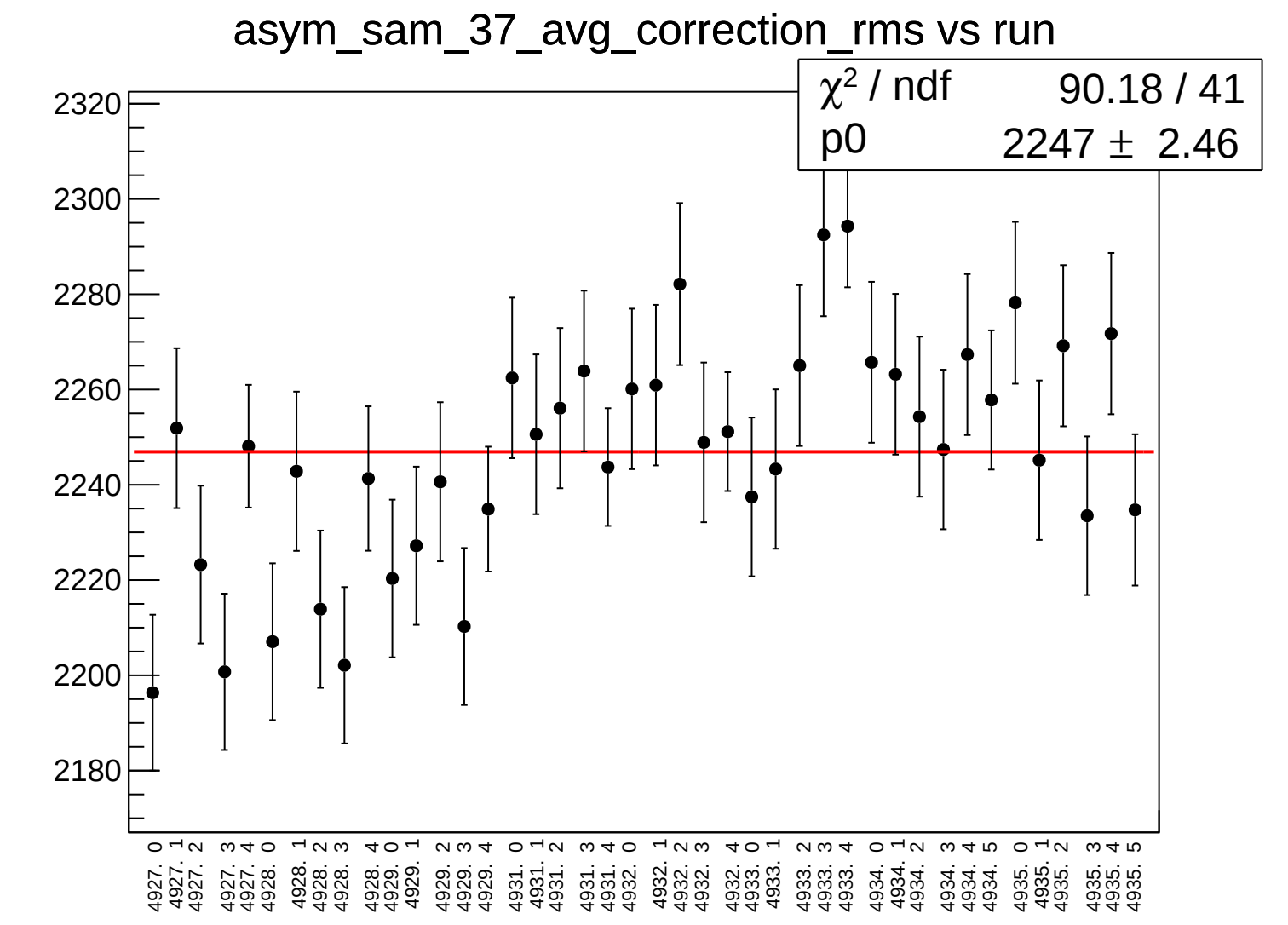

reg_asym_sam_37_avg_mean vs run
χ² / ndf 51.82 / 41
p0 242.5 ± 687.3
15000
10000
5000
0
−5000
−10000
−15000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 98.44
Std Dev 78.98
3
2
1
0
−1
−2
−3

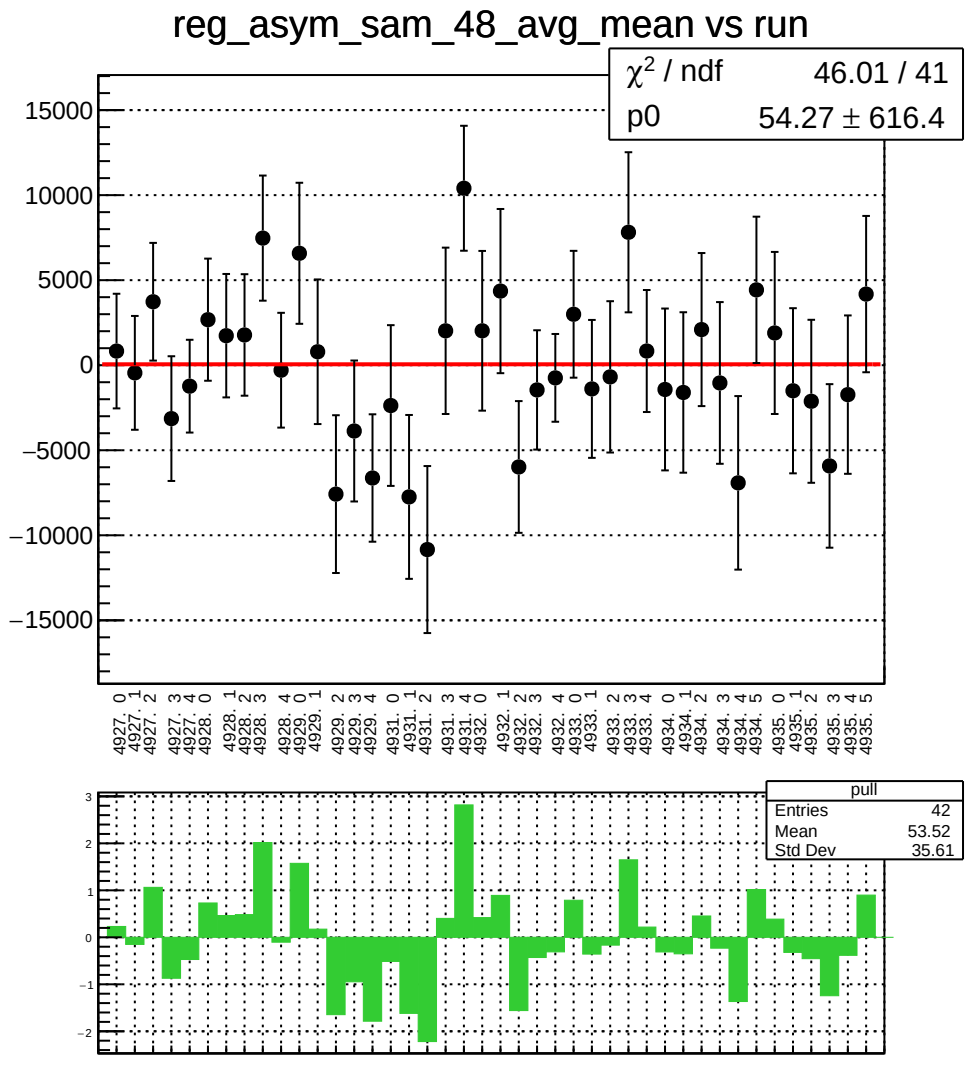

pull1D
Entries 42
Mean 0.03801
Std Dev 1.11
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

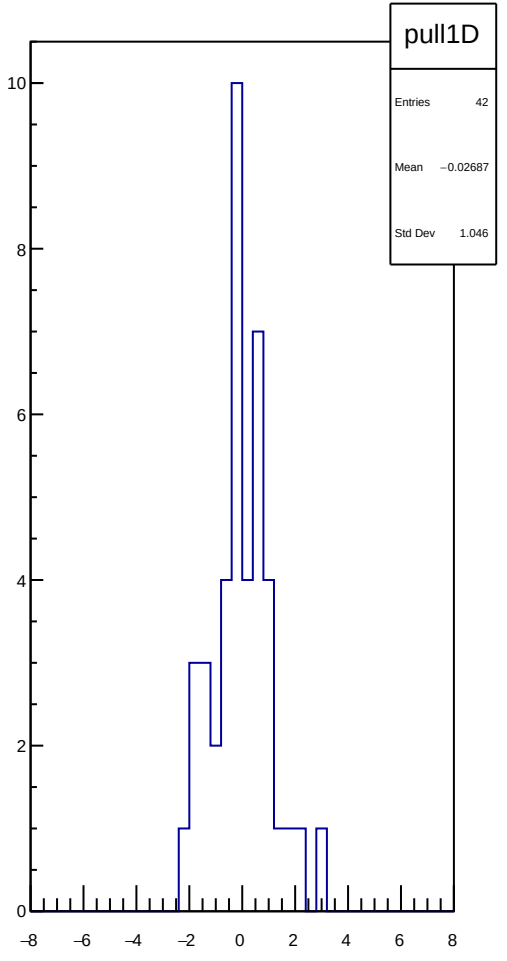

reg_asym_sam_37_avg_rms vs run
χ² / ndf 1.132e+04 / 41
p0 441 ± 0.486
580
560
540
520
500
480
460
440
420
400
380
360
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

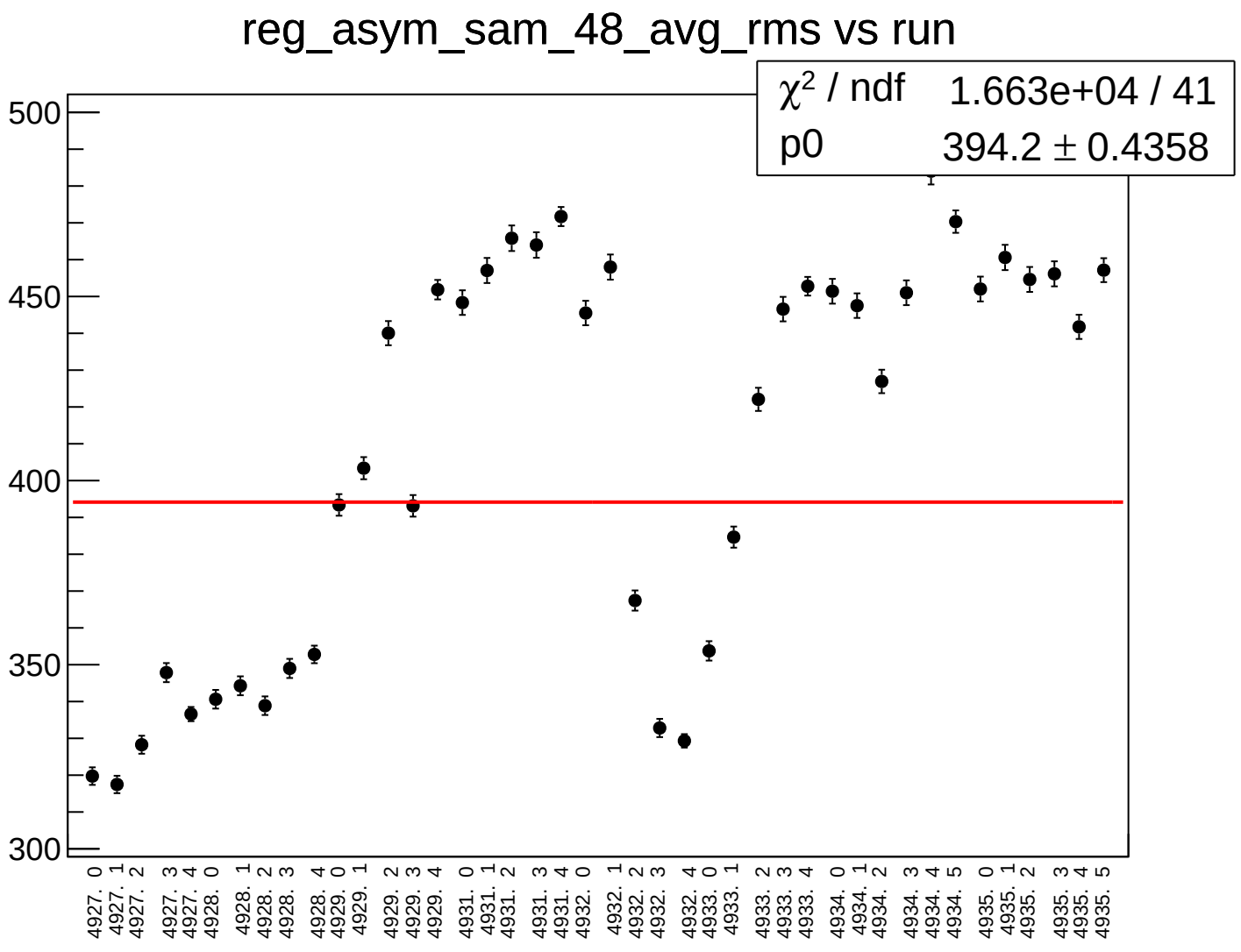

asym_sam_37_avg_correction_mean vs run
χ² / ndf 33.87 / 41
p0 −6092 ± 3479
×10³
pull
Entries 42
Mean 136.2
Std Dev 127.7

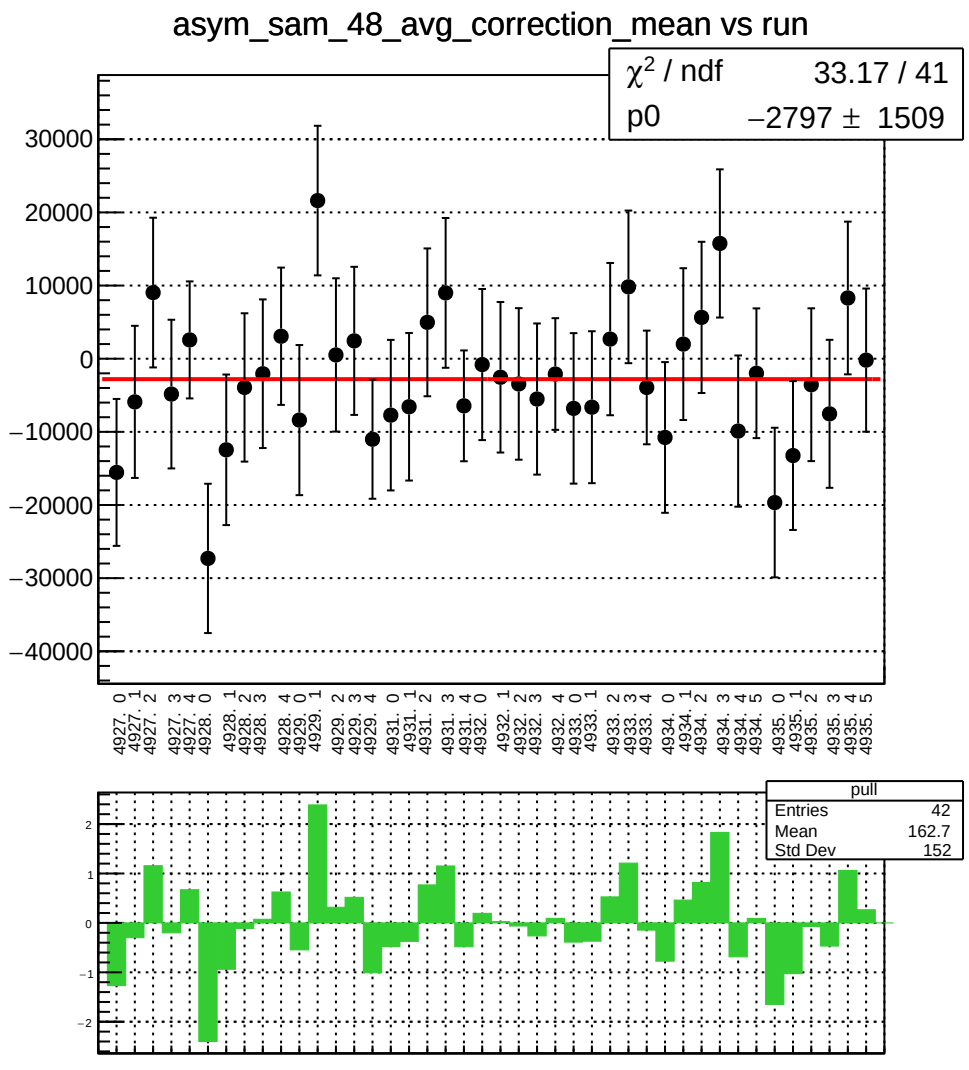

pull1D
Entries 42
Mean 0.004808
Std Dev 0.898

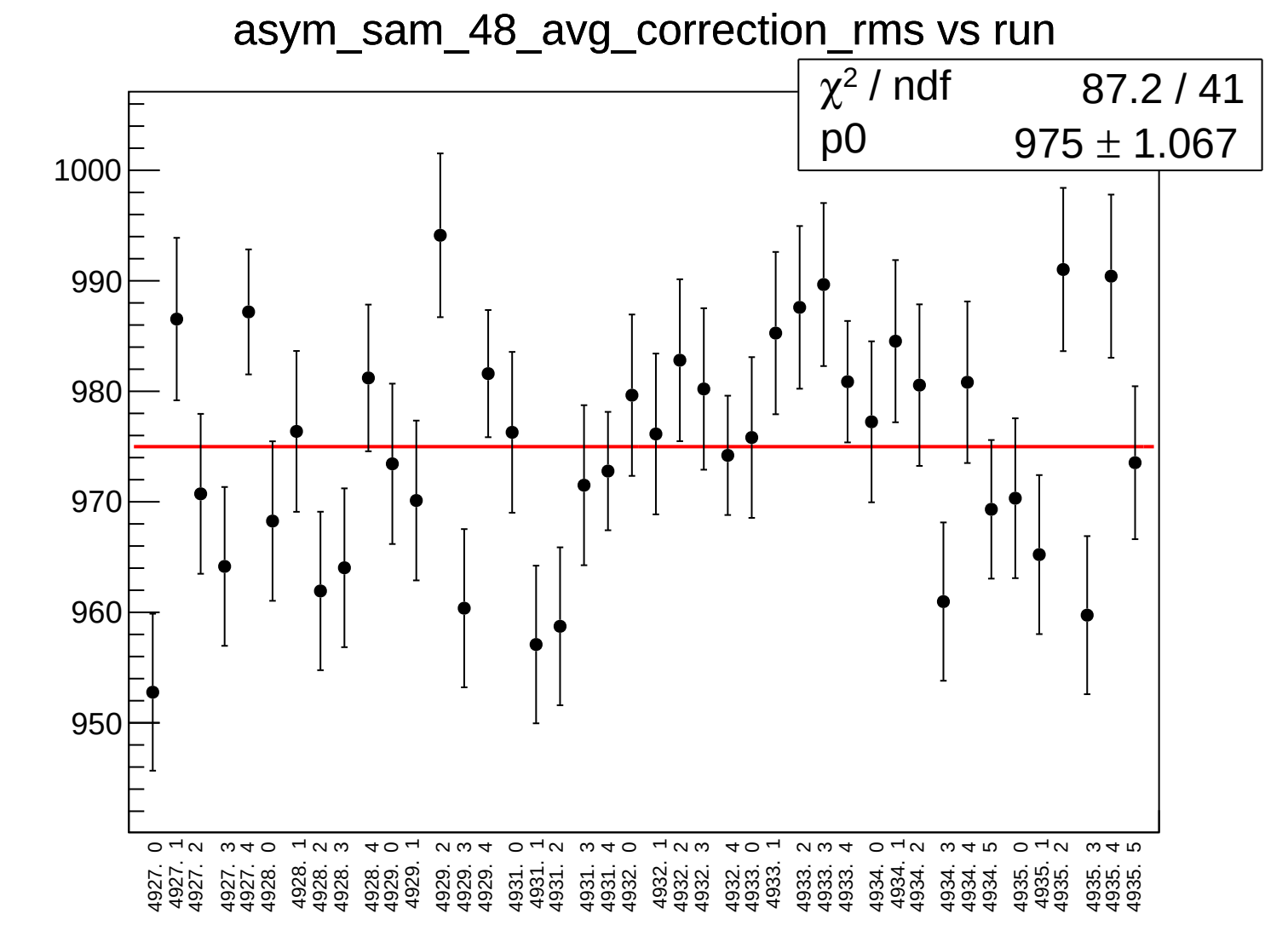

asym_sam_37_avg_correction_rms vs run
χ² / ndf 90.18 / 41
p0 2247 ± 2.46
2320
2300
2280
2260
2240
2220
2200
2180
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

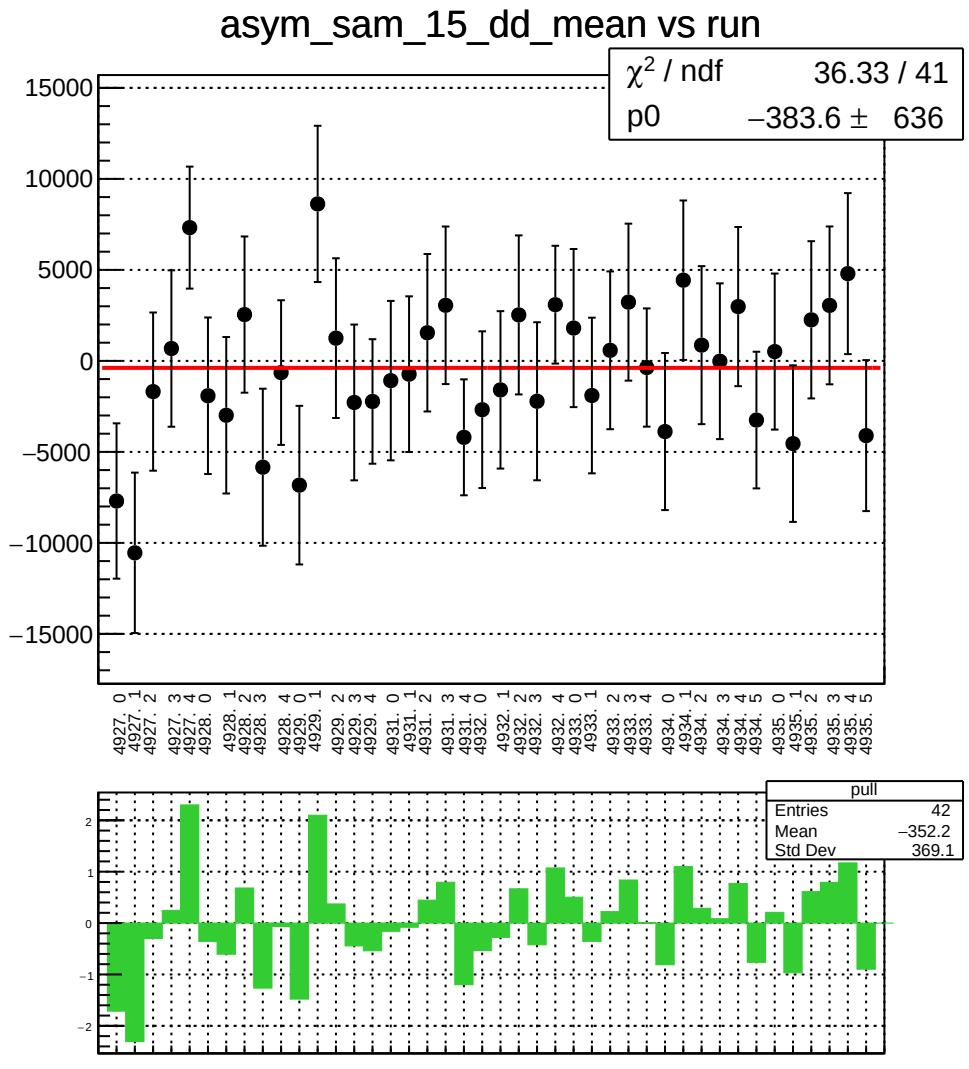

reg_asym_sam_48_avg_mean vs run
χ² / ndf 46.01 / 41
p0 54.27 ± 616.4
15000
10000
5000
0
−5000
−10000
−15000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 53.52
Std Dev 35.61
3
2
1
0
−1
−2

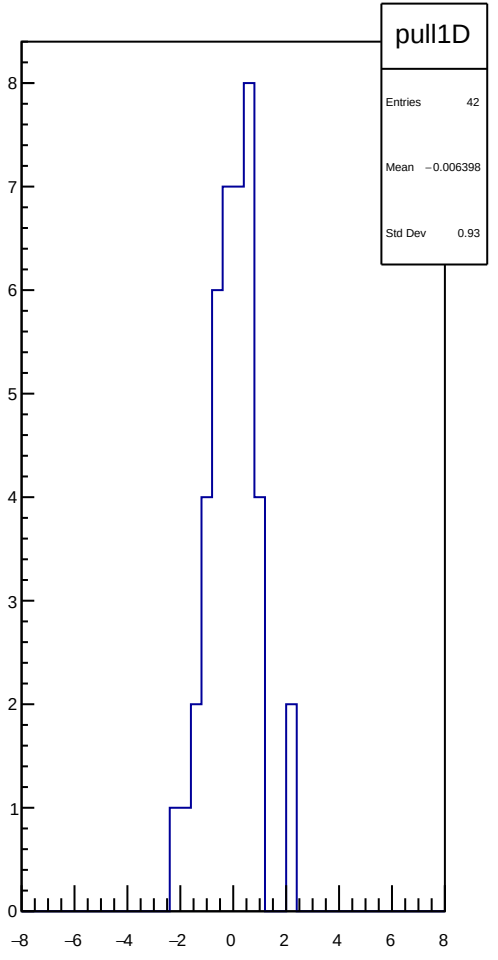

pull1D
Entries 42
Mean −0.02687
Std Dev 1.046
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

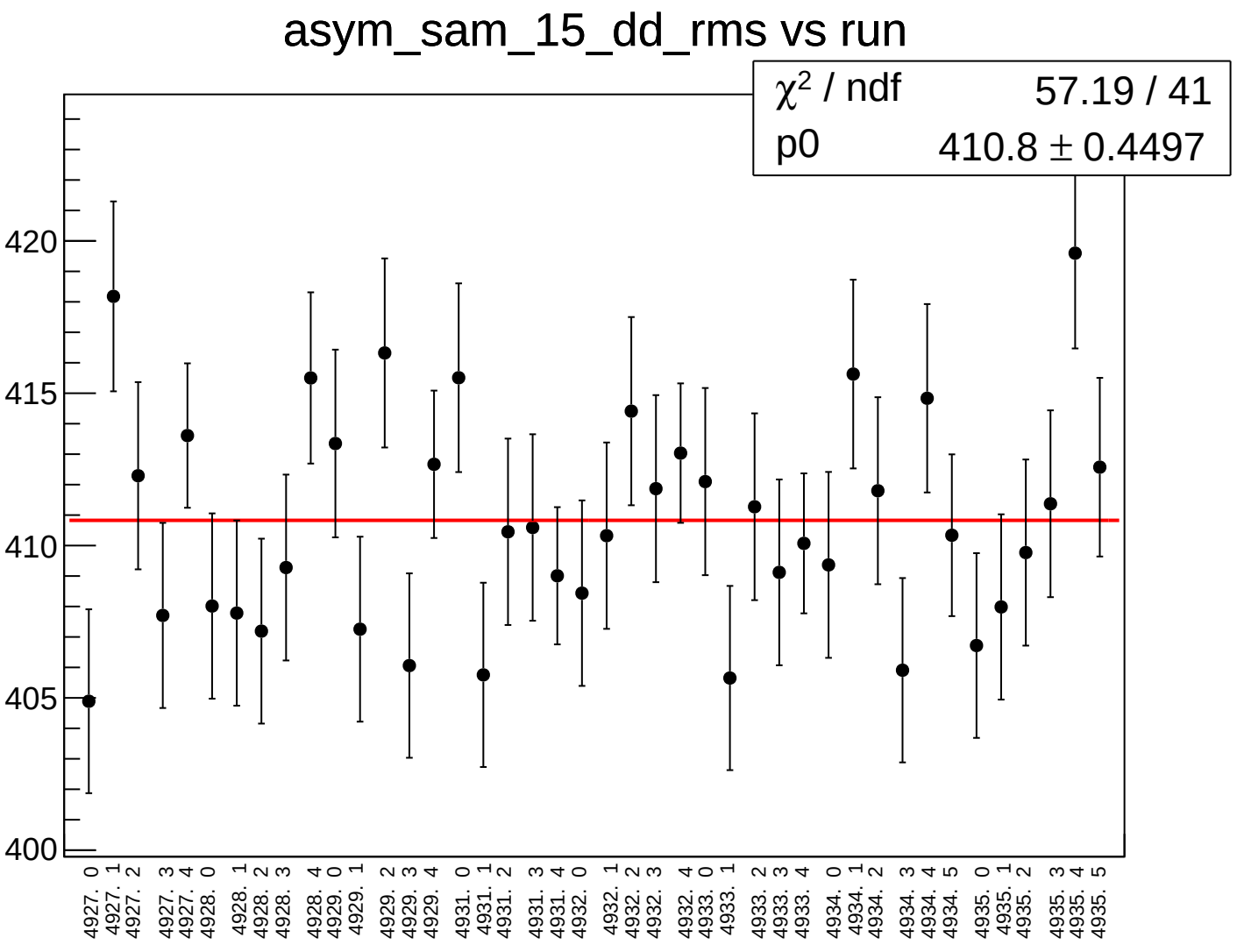

reg_asym_sam_48_avg_rms vs run
χ² / ndf 1.663e+04 / 41
p0 394.2 ± 0.4358
500
450
400
350
300
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

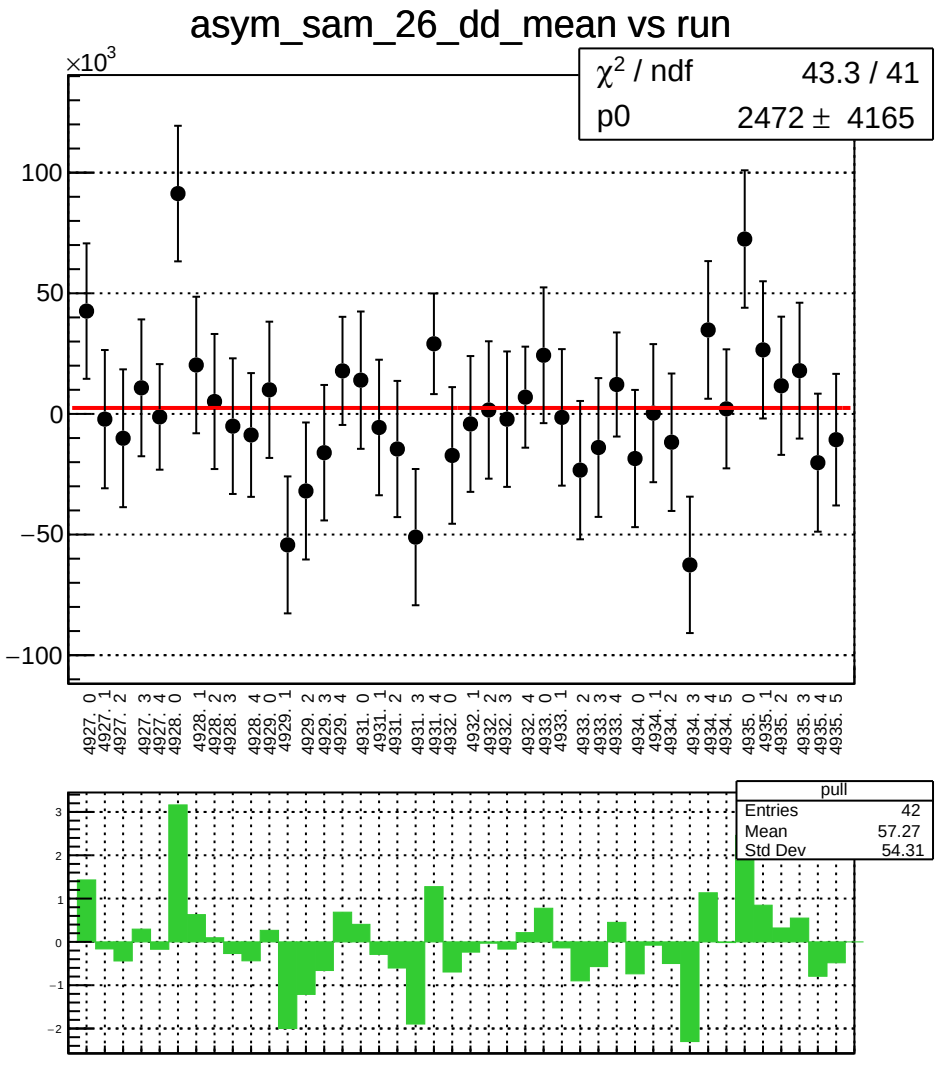

asym_sam_48_avg_correction_mean vs run
χ² / ndf 33.17 / 41
p0 −2797 ± 1509
30000
20000
10000
0
−10000
−20000
−30000
−40000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 162.7
Std Dev 152
2
1
0
−1
−2
pull1D
Entries 42
Mean 0.005404
Std Dev 0.8886
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

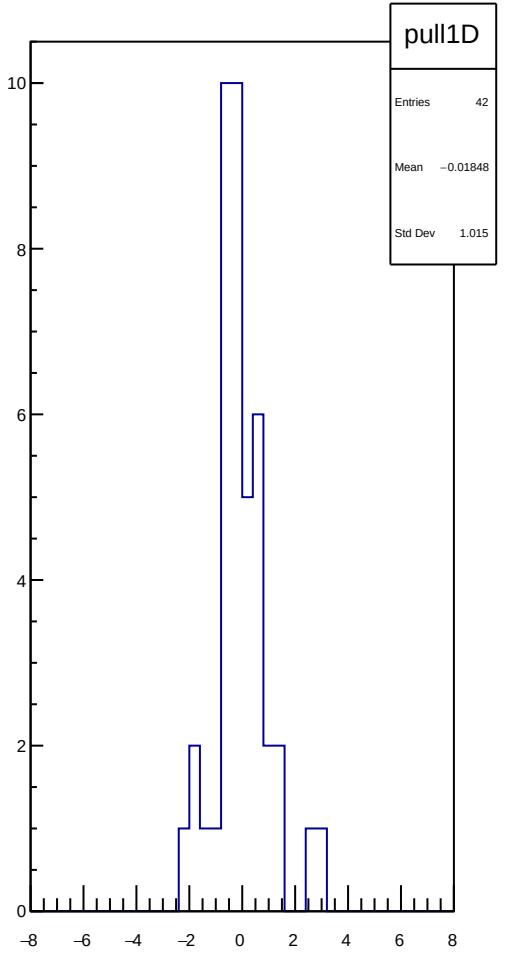

asym_sam_48_avg_correction_rms vs run
χ² / ndf 87.2 / 41
p0 975 ± 1.067
1000
990
980
970
960
950
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

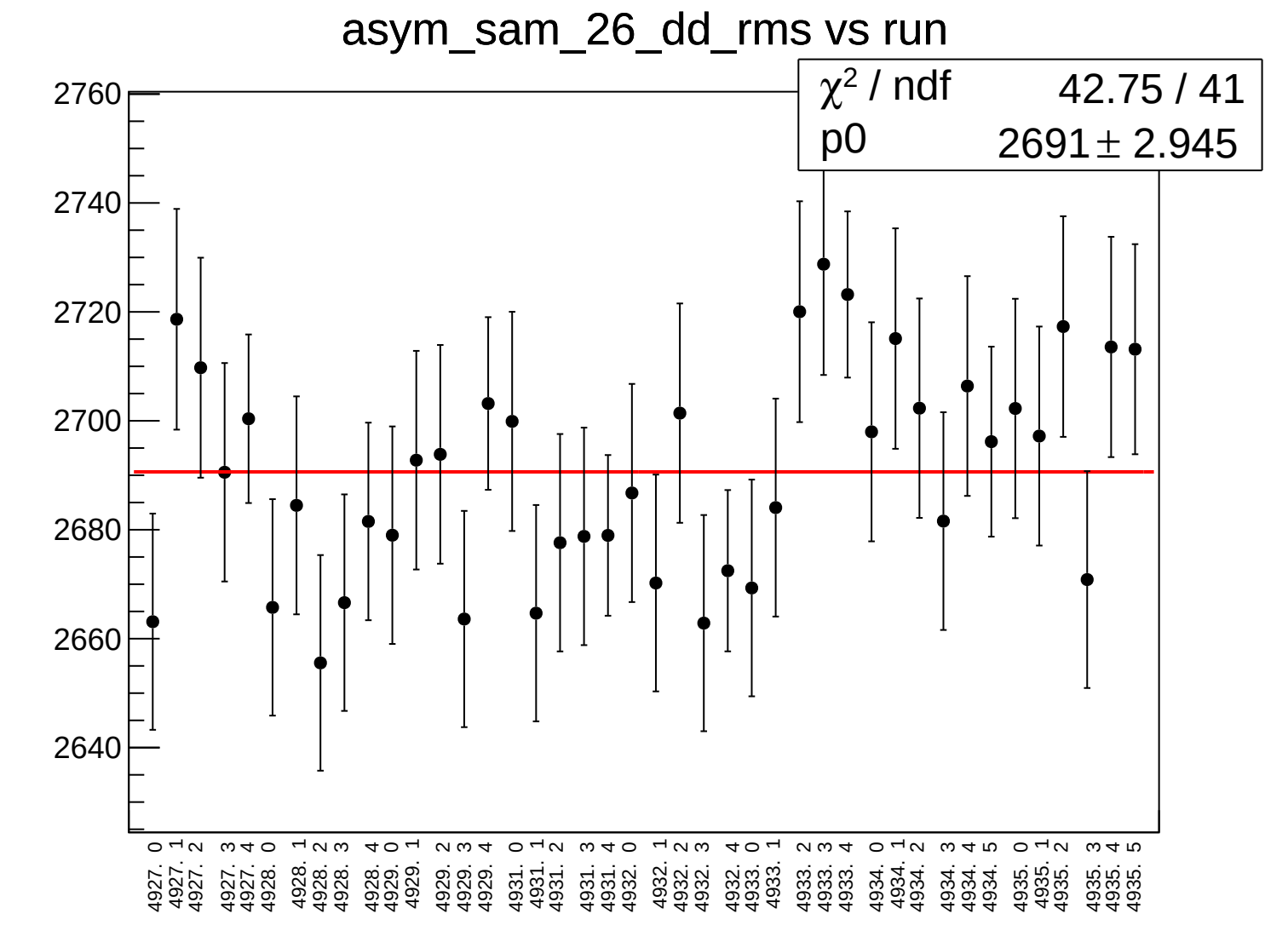

asym_sam_15_dd_mean vs run
χ² / ndf 36.33 / 41
p0 −383.6 ± 636
15000
10000
5000
0
−5000
−10000
−15000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −352.2
Std Dev 369.1
2
1
0
−1
−2

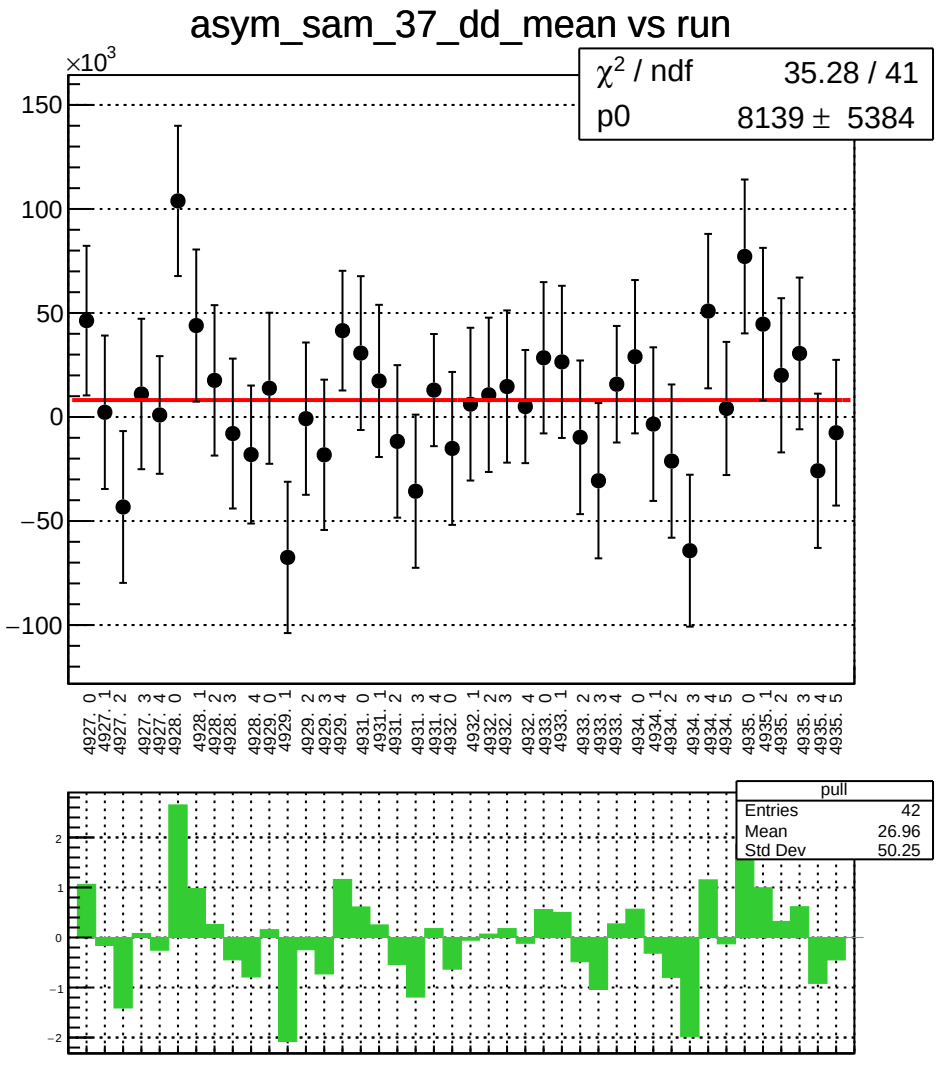

pull1D
Entries 42
Mean −0.006398
Std Dev 0.93
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

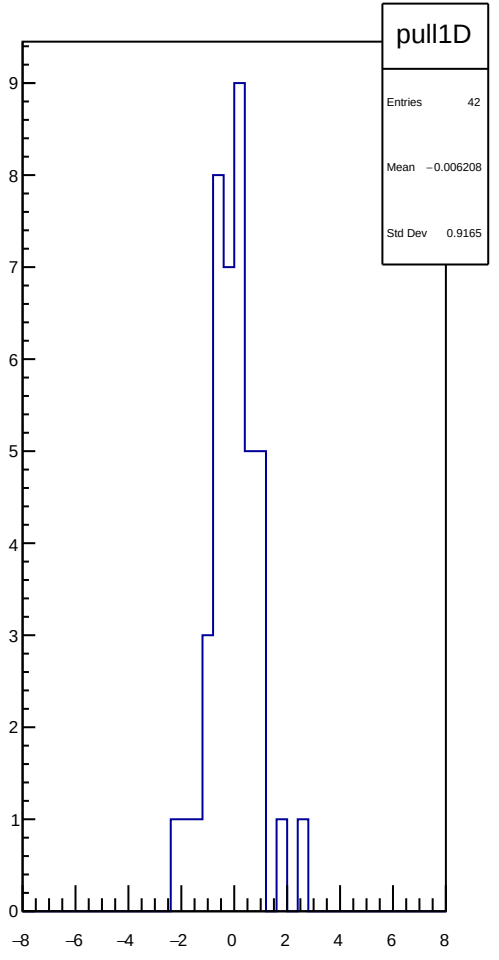

asym_sam_15_dd_rms vs run
χ² / ndf 57.19 / 41
p0 410.8 ± 0.4497
420
415
410
405
400
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

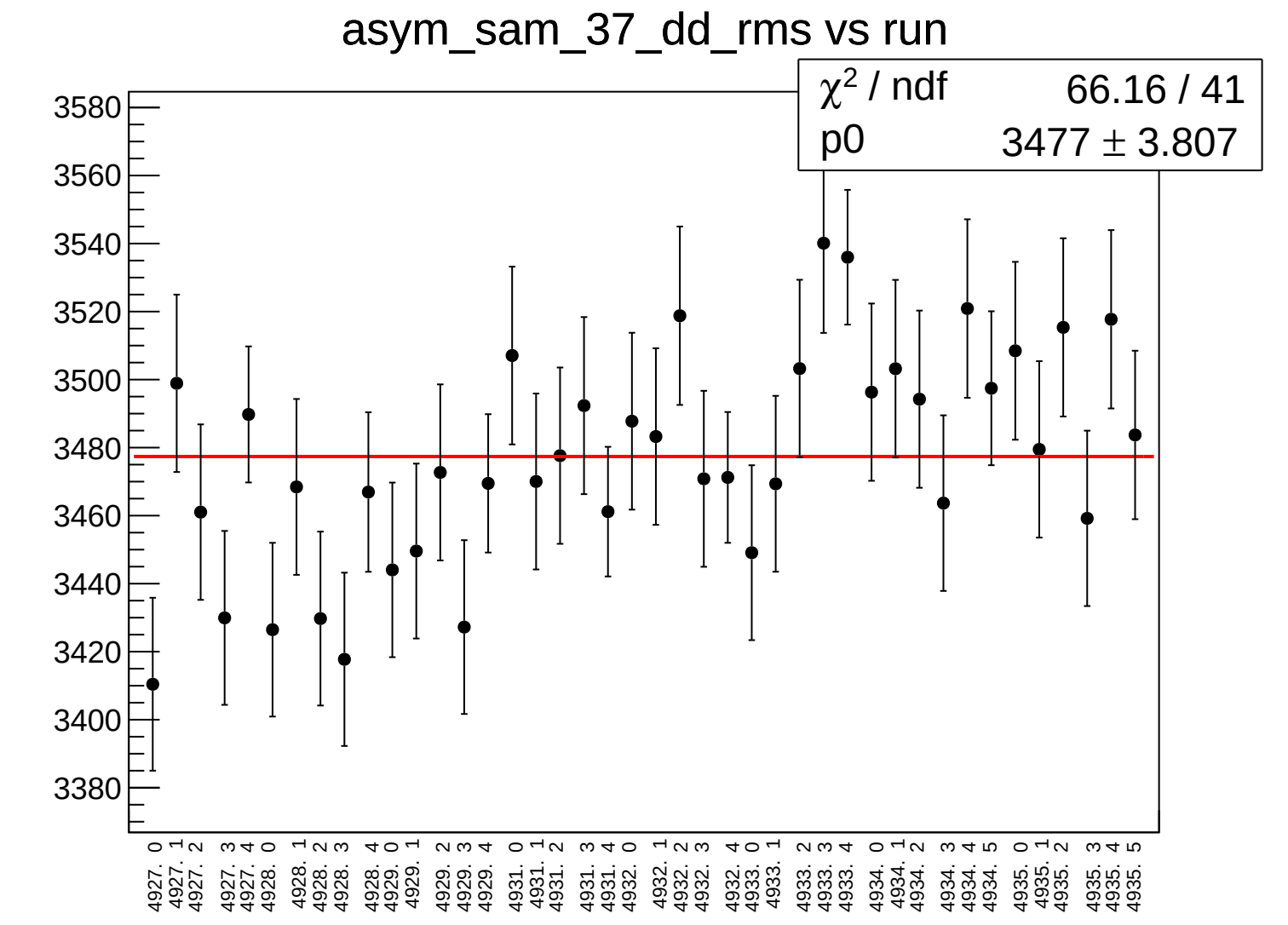

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 43.3 / 41
p0 2472 ± 4165
100
50
0
−50
−100
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 57.27
Std Dev 54.31
3
2
1
0
−1
−2

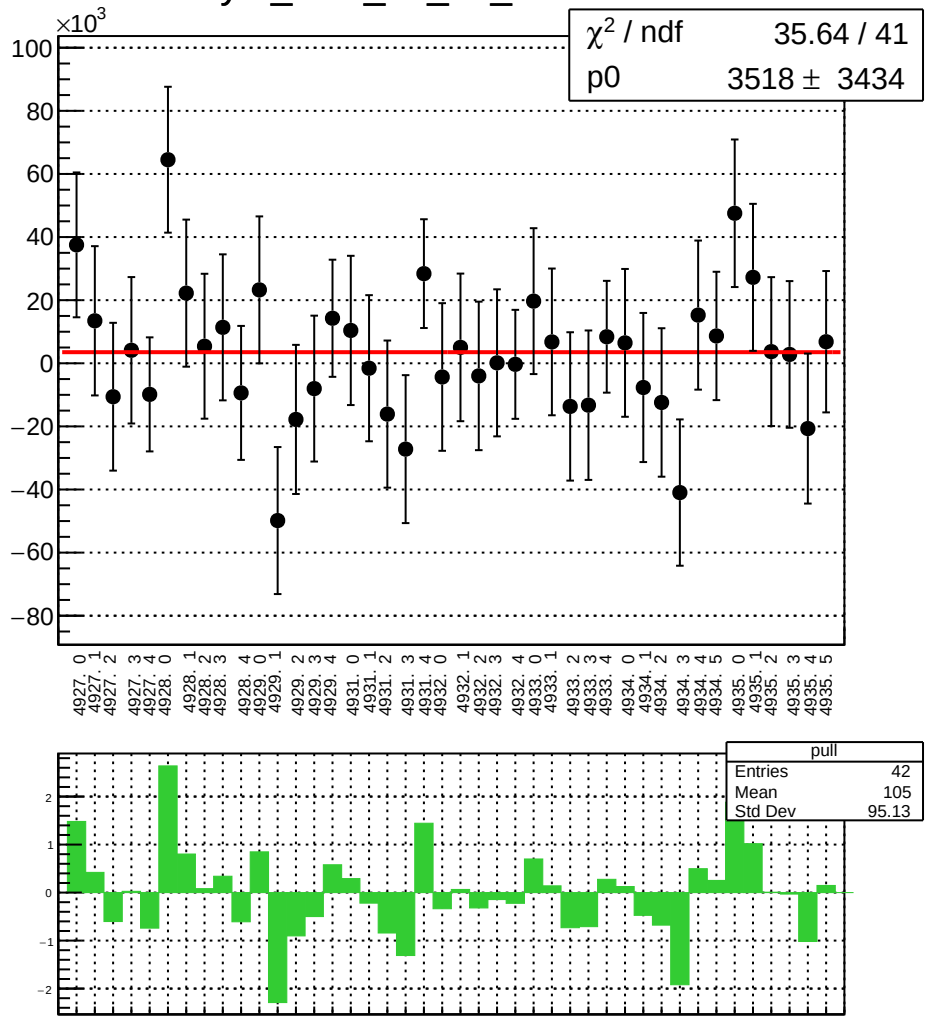

pull1D
Entries 42
Mean −0.01848
Std Dev 1.015
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

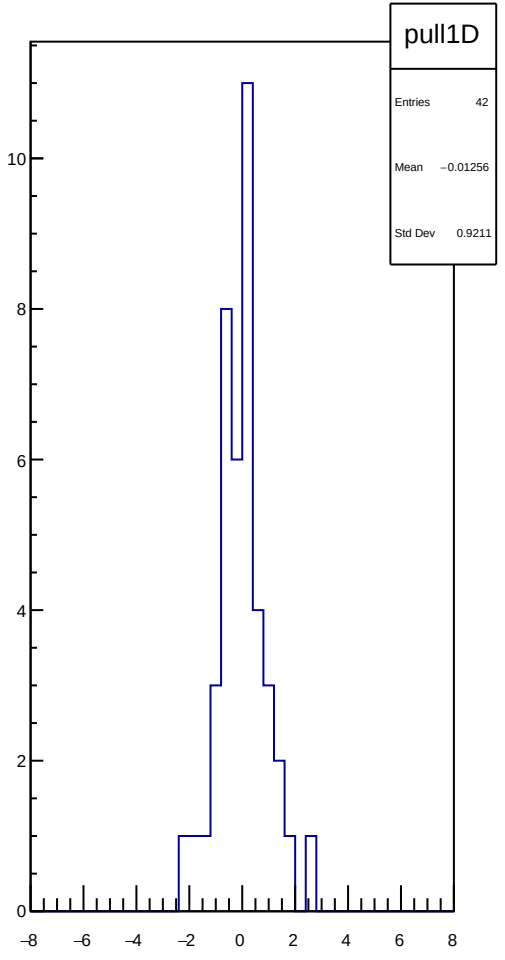

asym_sam_26_dd_rms vs run
χ² / ndf 42.75 / 41
p0 2691 ± 2.945
2760
2740
2720
2700
2680
2660
2640
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

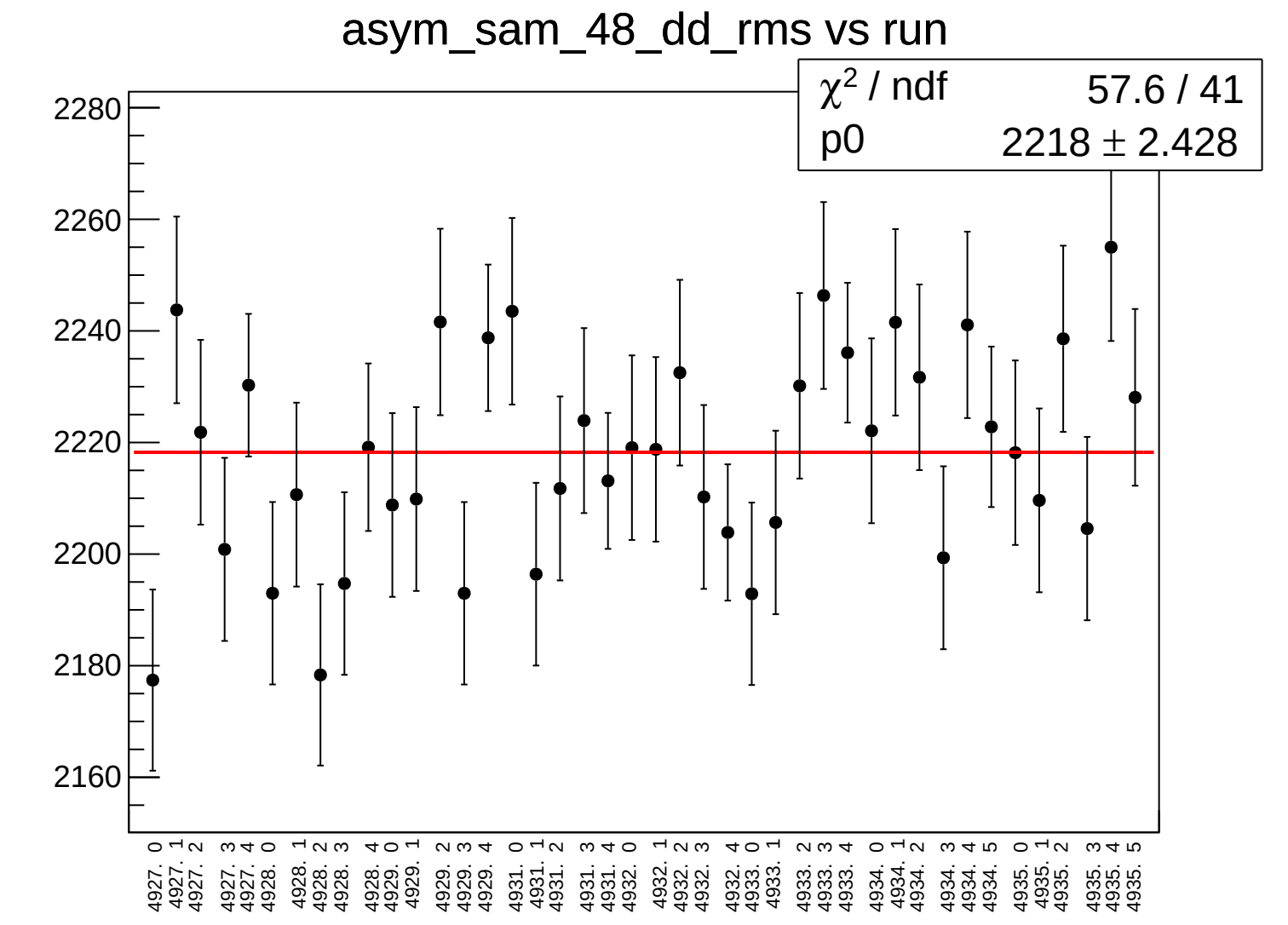

asym_sam_37_dd_mean vs run
×10^3
χ² / ndf 35.28 / 41
p0 8139 ± 5384
150
100
50
0
−50
−100
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 26.96
Std Dev 50.25
2
1
0
−1
−2

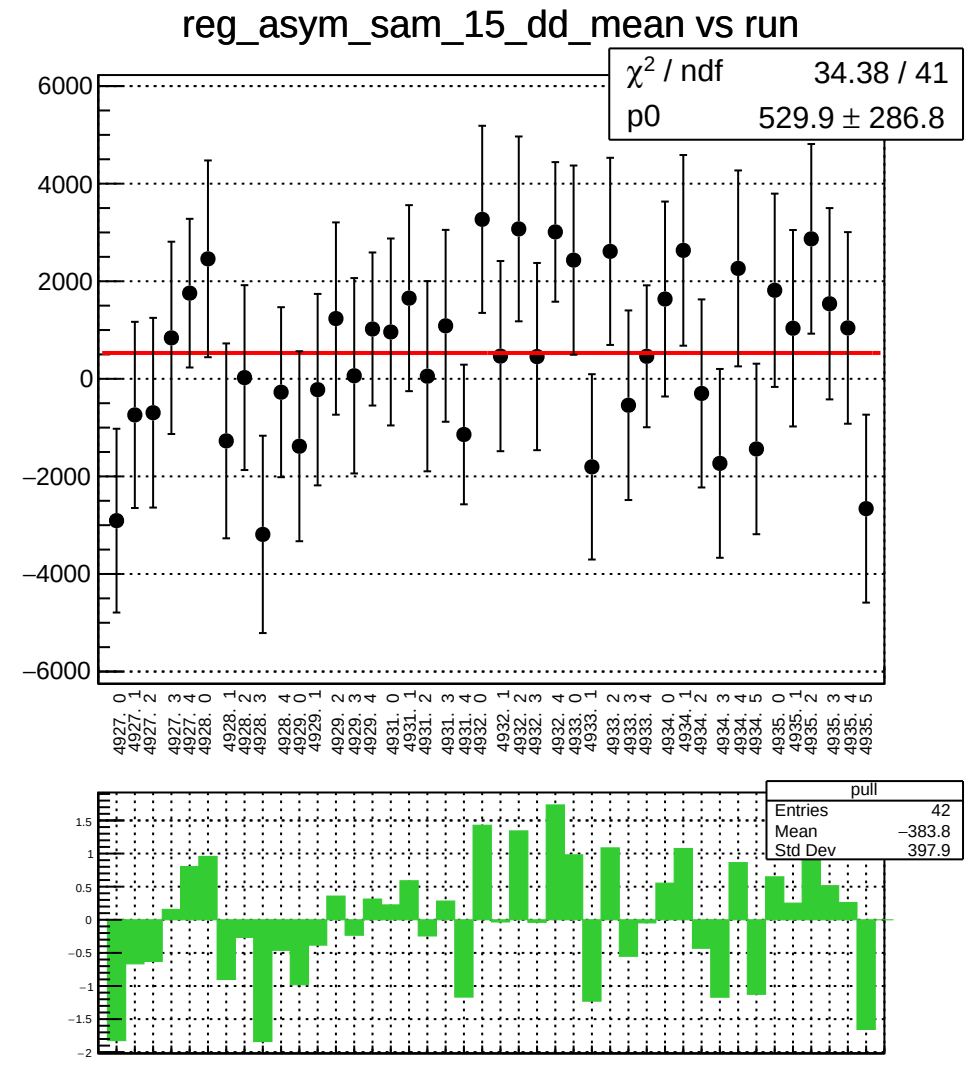

pull1D
Entries 42
Mean −0.006208
Std Dev 0.9165
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

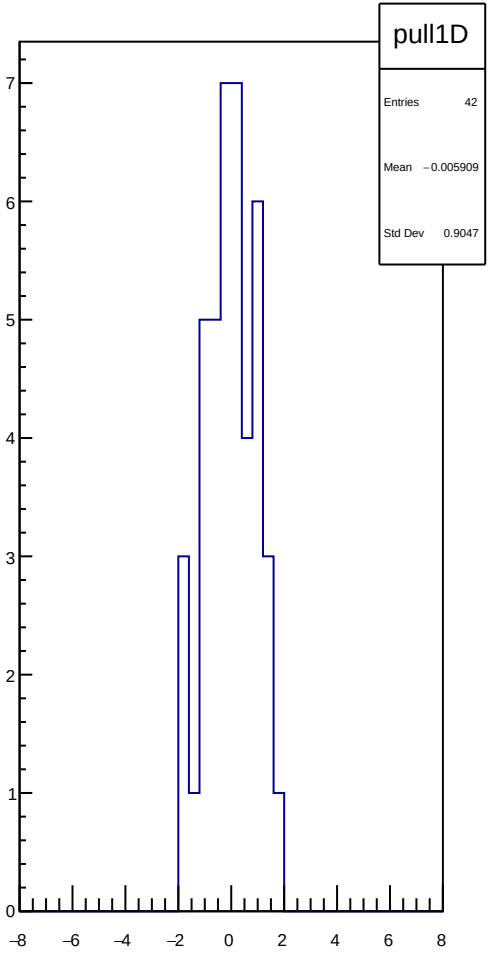

asym_sam_37_dd_rms vs run
χ² / ndf 66.16 / 41
p0 3477 ± 3.807
3580
3560
3540
3520
3500
3480
3460
3440
3420
3400
3380
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

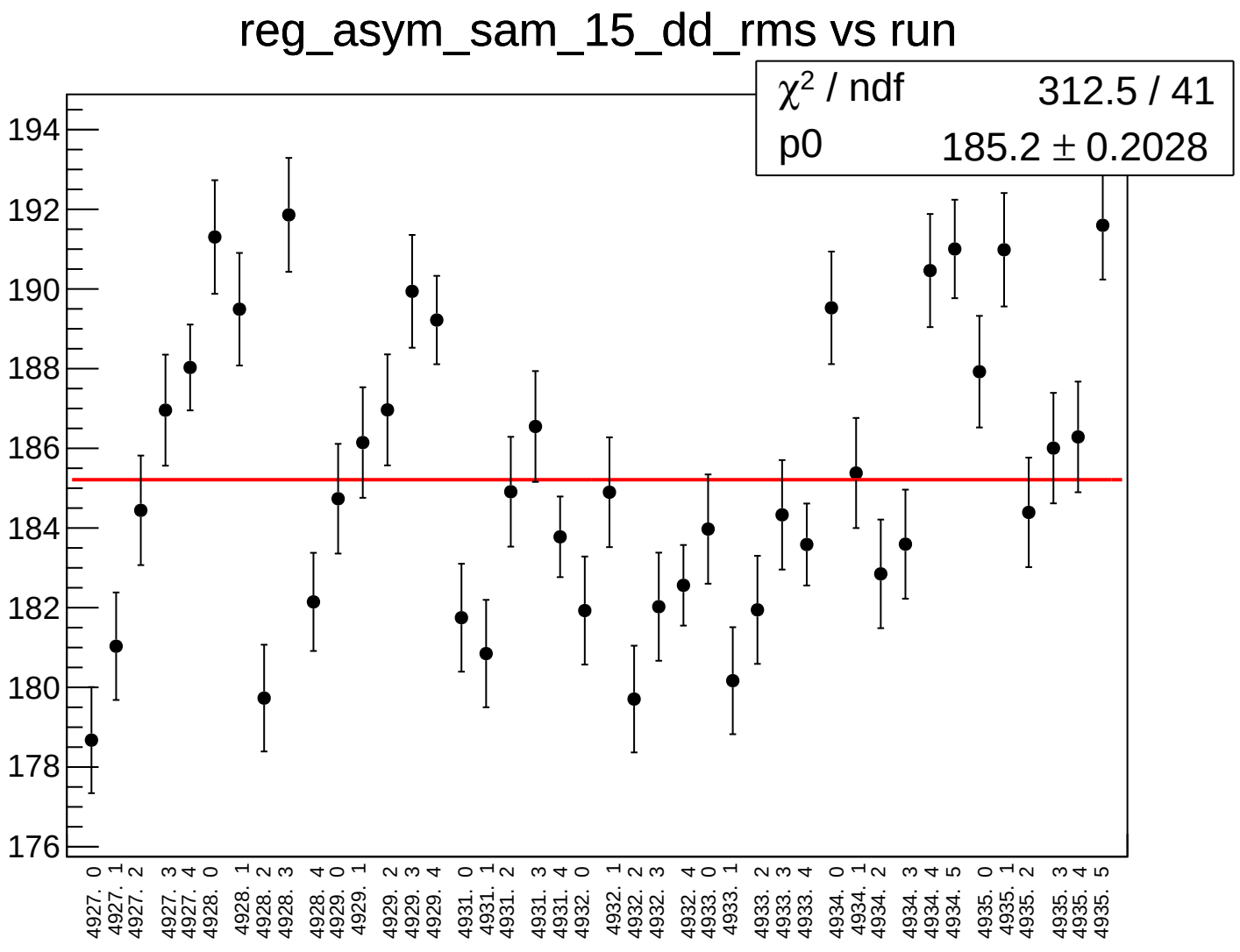

asym_sam_48_dd_mean vs run
×10^3
χ² / ndf 35.64 / 41
p0 3518 ± 3434
pull
Entries 42
Mean 105
Std Dev 95.13

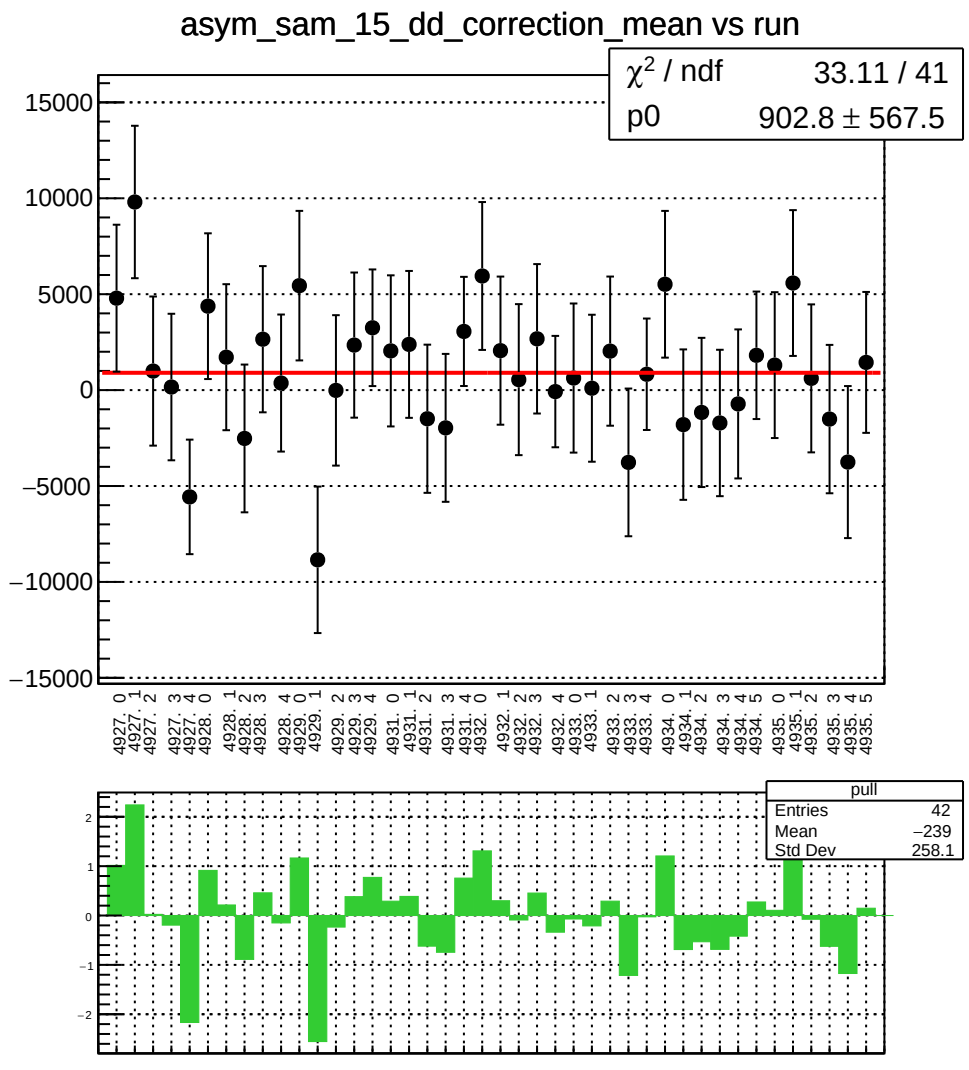

pull1D
Entries 42
Mean −0.01256
Std Dev 0.9211

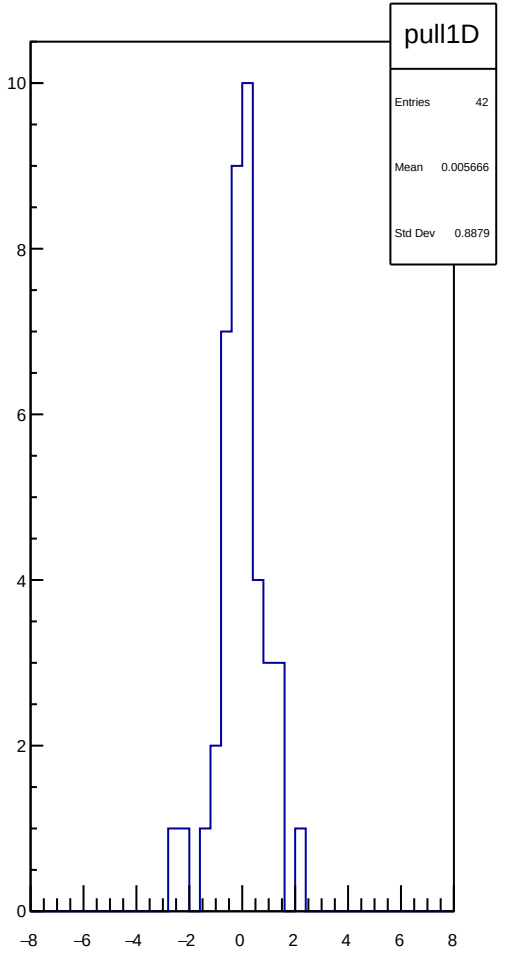

asym_sam_48_dd_rms vs run
χ² / ndf 57.6 / 41
p0 2218 ± 2.428
2280
2260
2240
2220
2200
2180
2160
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

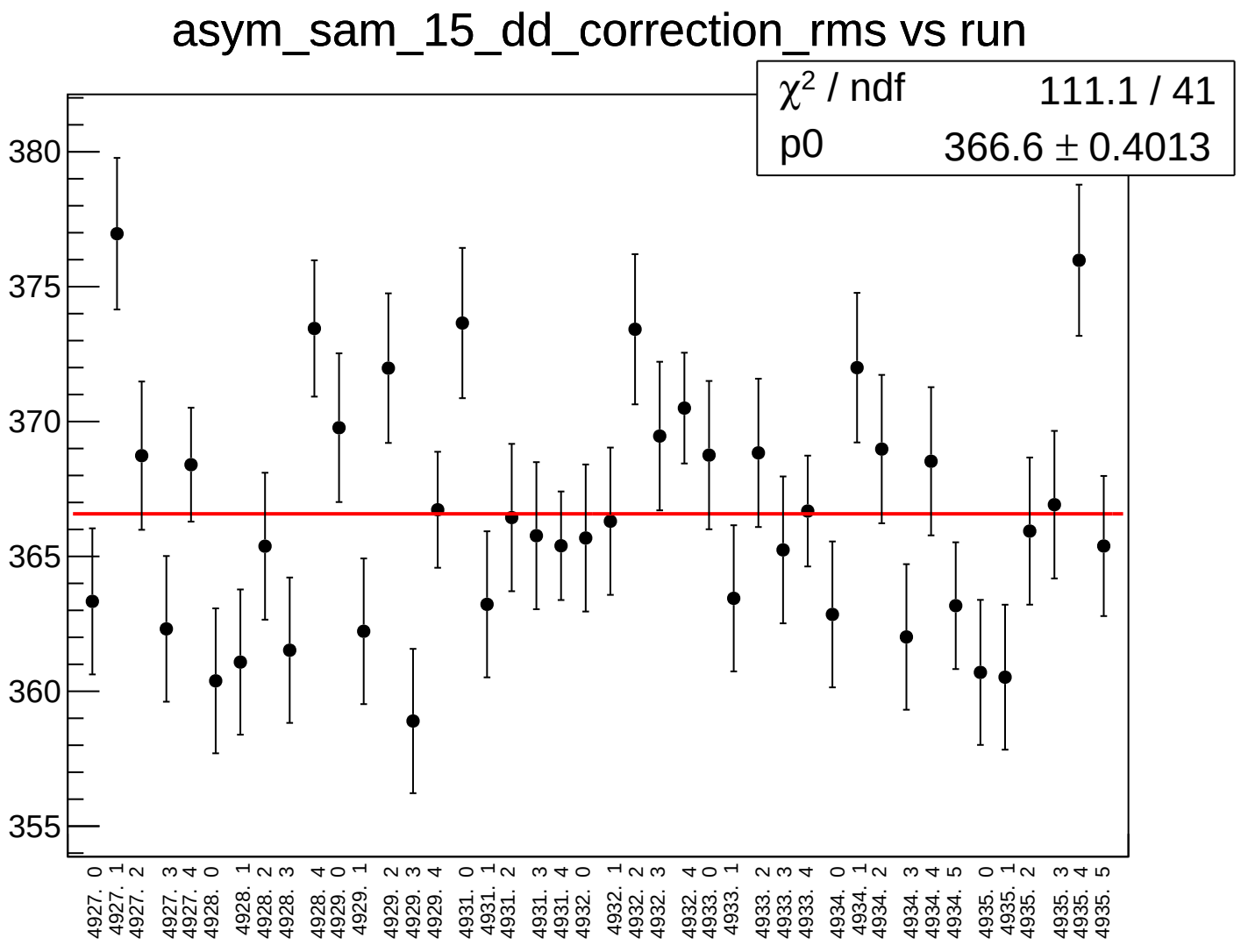

reg_asym_sam_15_dd_mean vs run
χ² / ndf 34.38 / 41
p0 529.9 ± 286.8
6000
4000
2000
0
−2000
−4000
−6000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −383.8
Std Dev 397.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

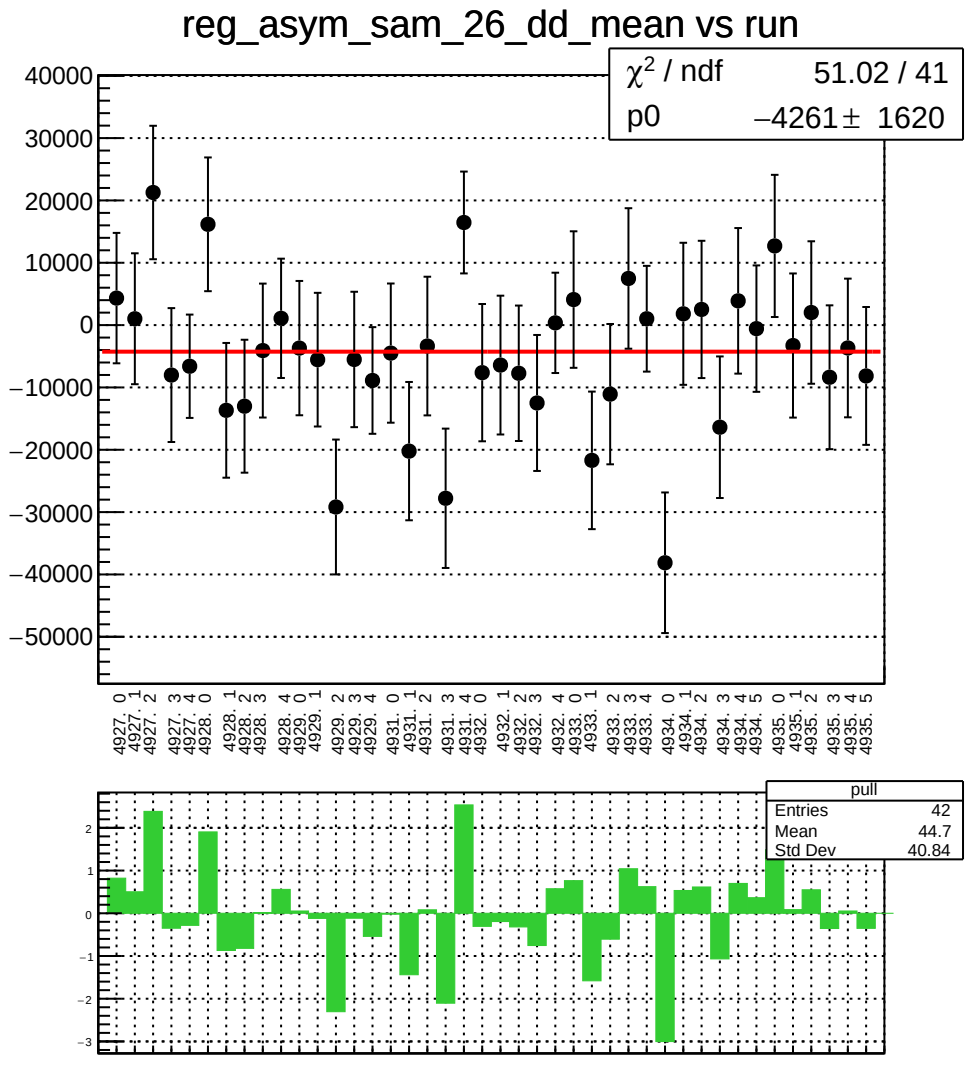

pull1D
Entries 42
Mean −0.005909
Std Dev 0.9047
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

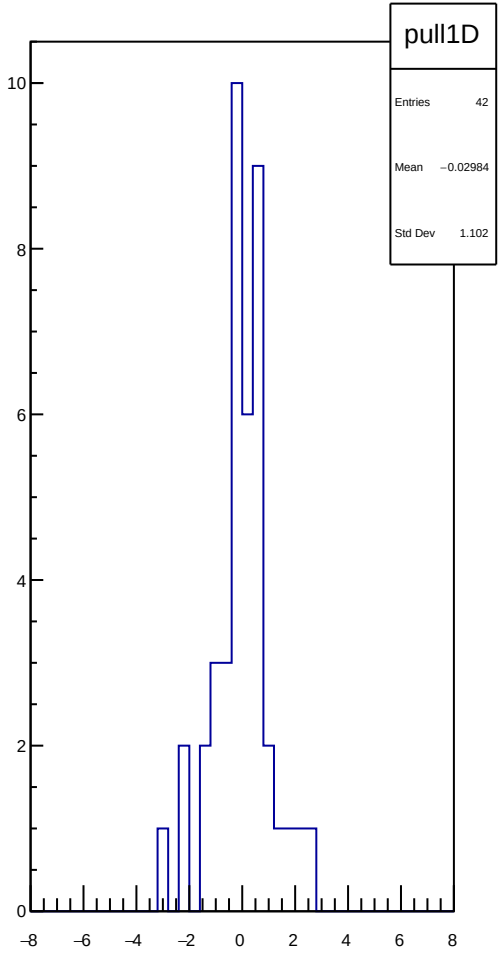

reg_asym_sam_15_dd_rms vs run
χ² / ndf 312.5 / 41
p0 185.2 ± 0.2028
194
192
190
188
186
184
182
180
178
176
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

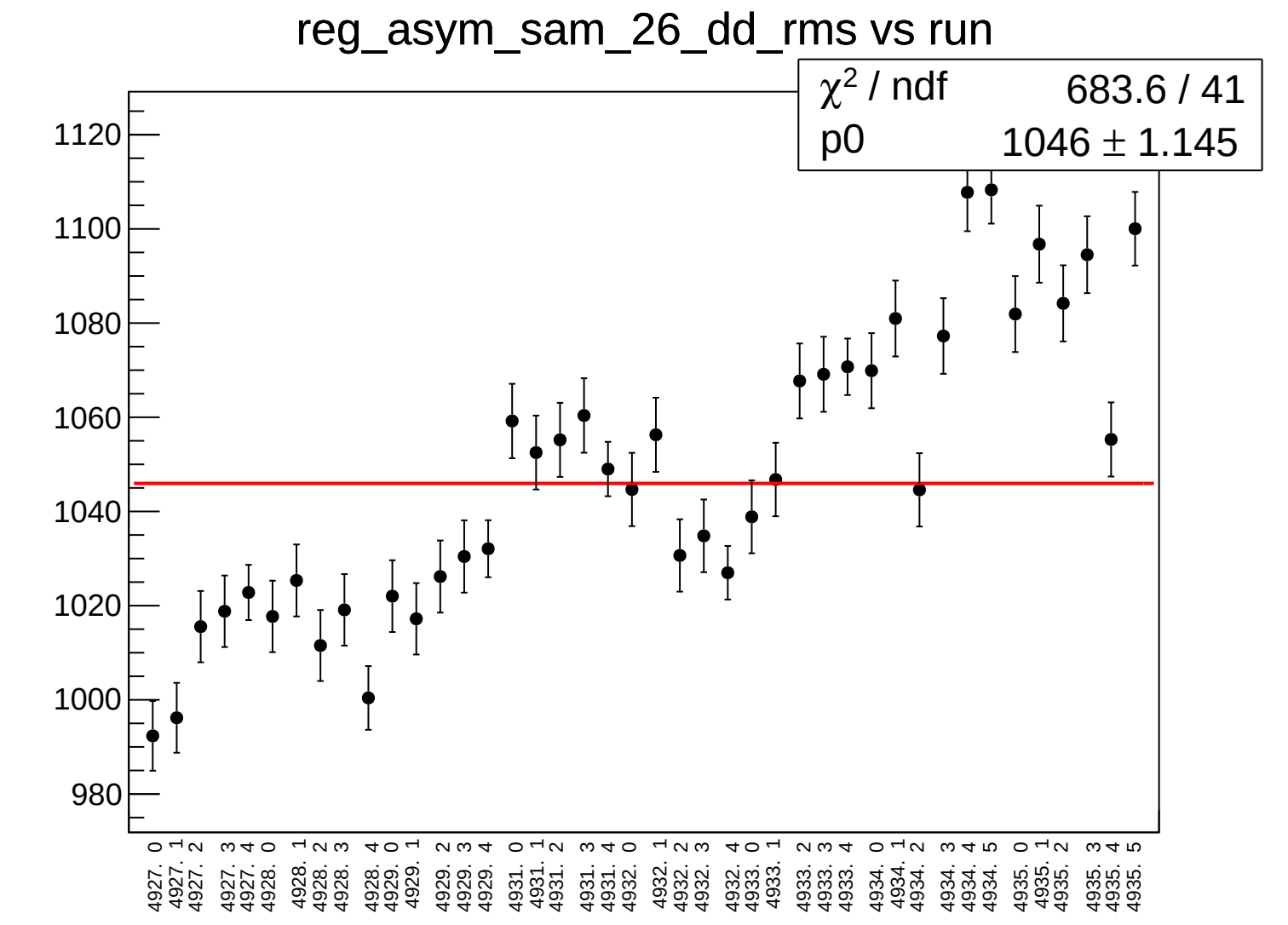

asym_sam_15_dd_correction_mean vs run
χ² / ndf 33.11 / 41
p0 902.8 ± 567.5
15000
10000
5000
0
−5000
−10000
−15000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −239
Std Dev 258.1
2
1
0
−1
−2

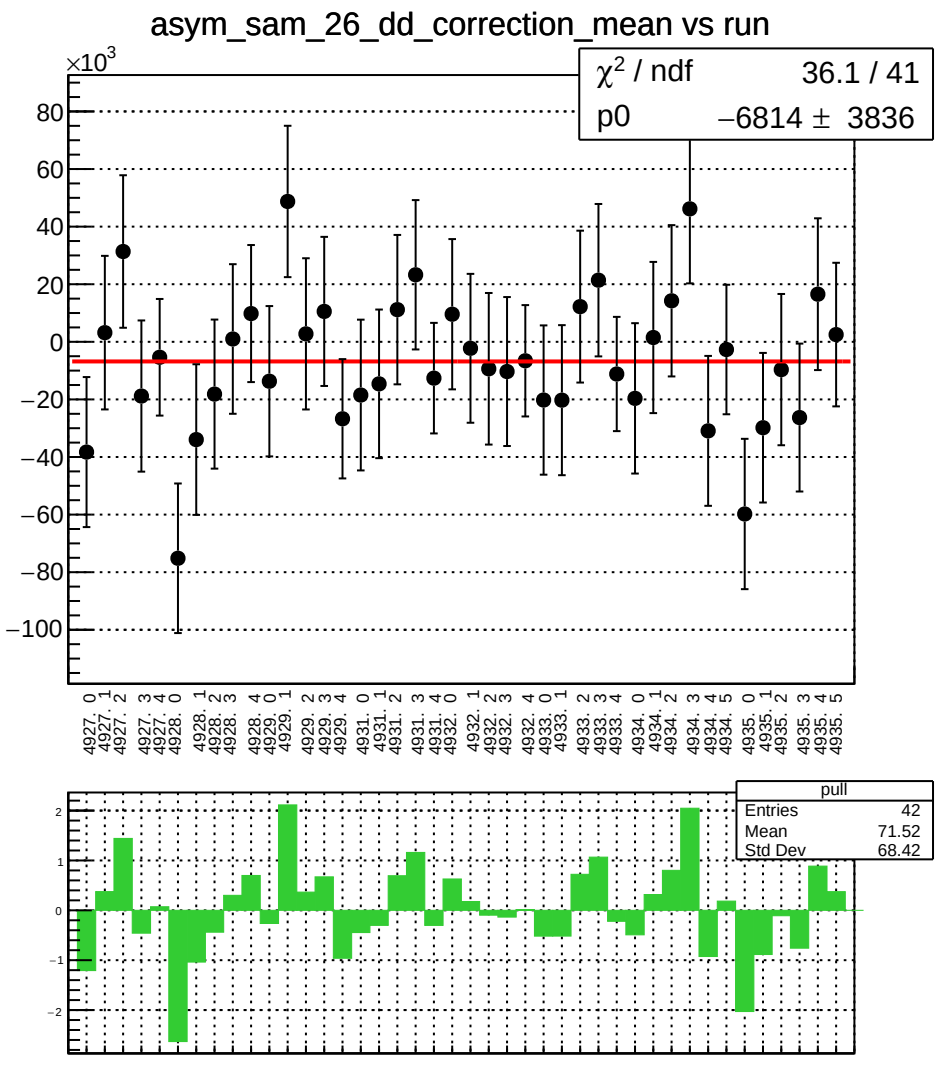

pull1D
Entries 42
Mean 0.005666
Std Dev 0.8879
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

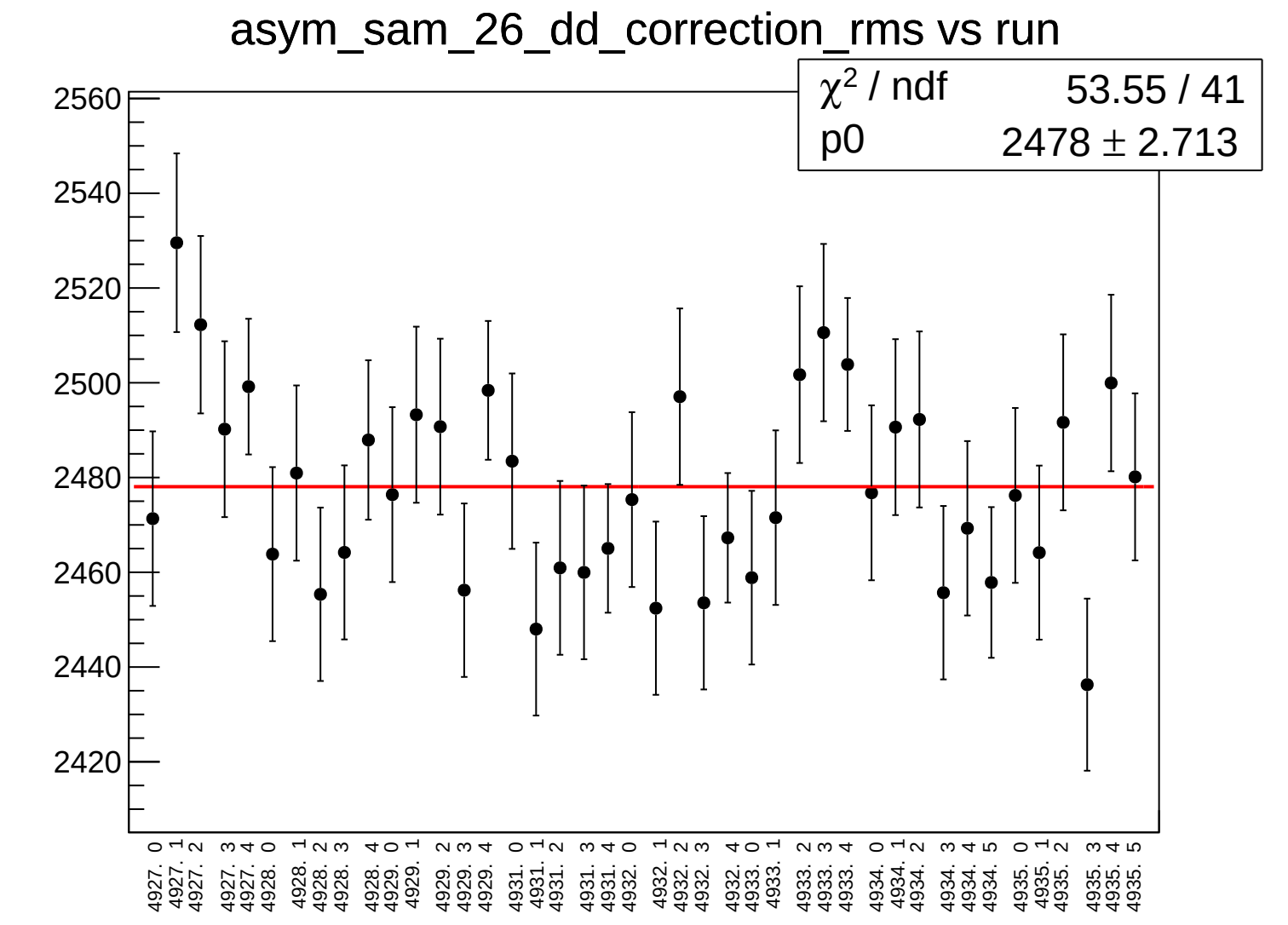

asym_sam_15_dd_correction_rms vs run
χ² / ndf 111.1 / 41
p0 366.6 ± 0.4013
380
375
370
365
360
355
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

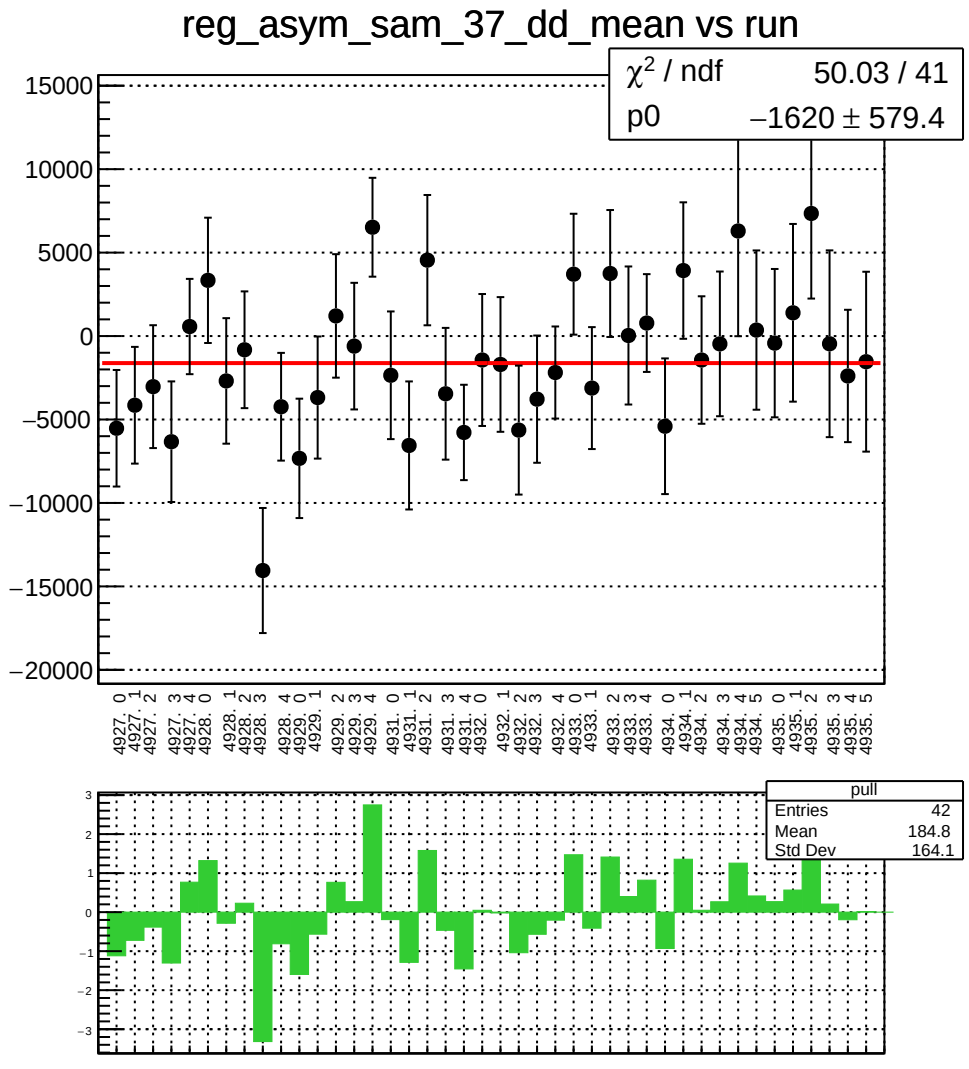

reg_asym_sam_26_dd_mean vs run
χ² / ndf 51.02 / 41
p0 −4261 ± 1620
pull
Entries 42
Mean 44.7
Std Dev 40.84

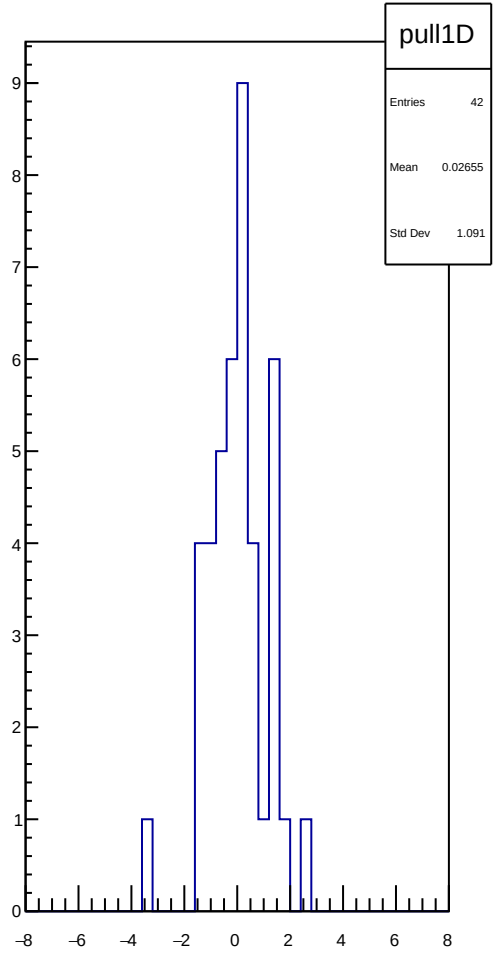

pull1D
Entries 42
Mean −0.02984
Std Dev 1.102

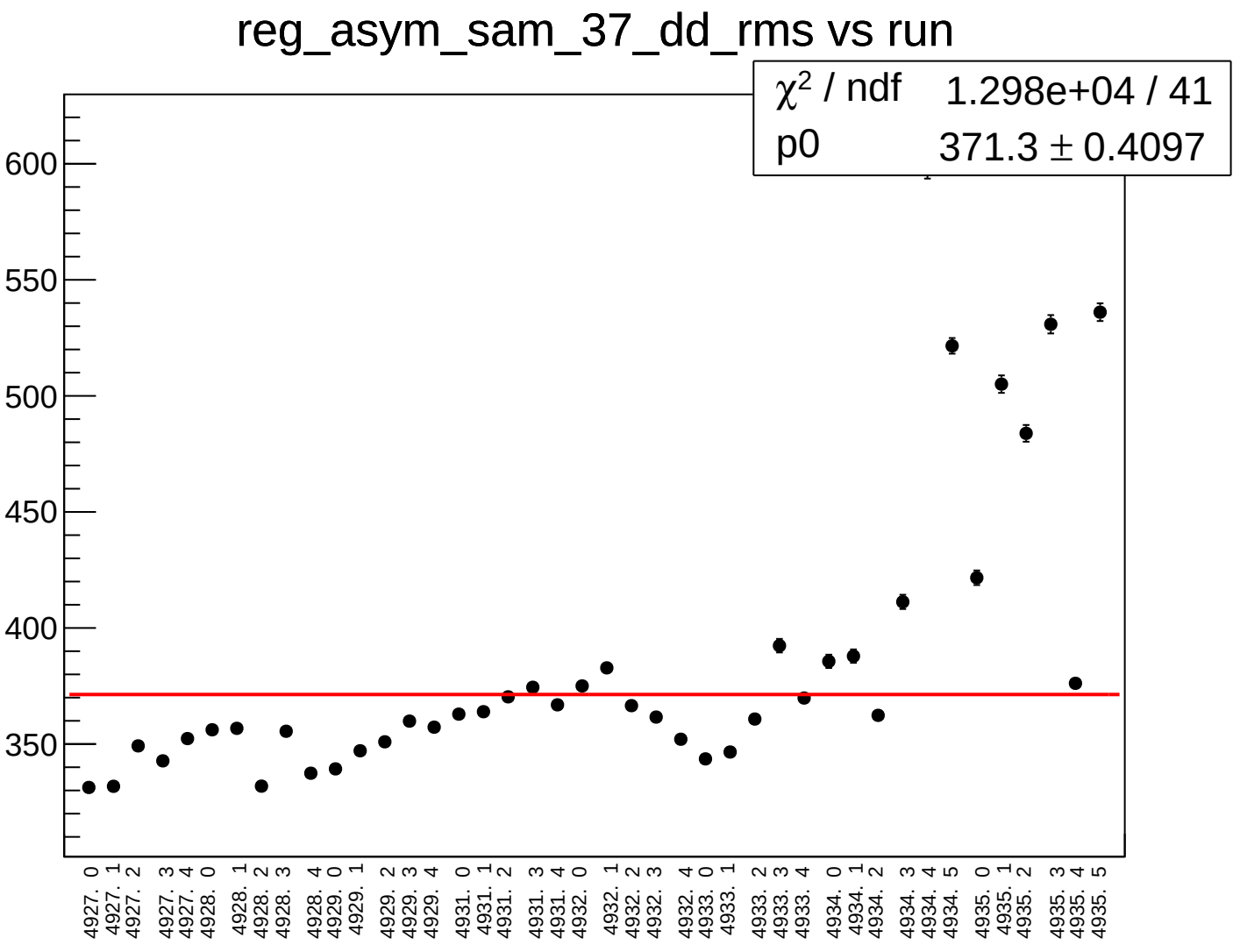

reg_asym_sam_26_dd_rms vs run
χ² / ndf 683.6 / 41
p0 1046 ± 1.145
1120
1100
1080
1060
1040
1020
1000
980
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

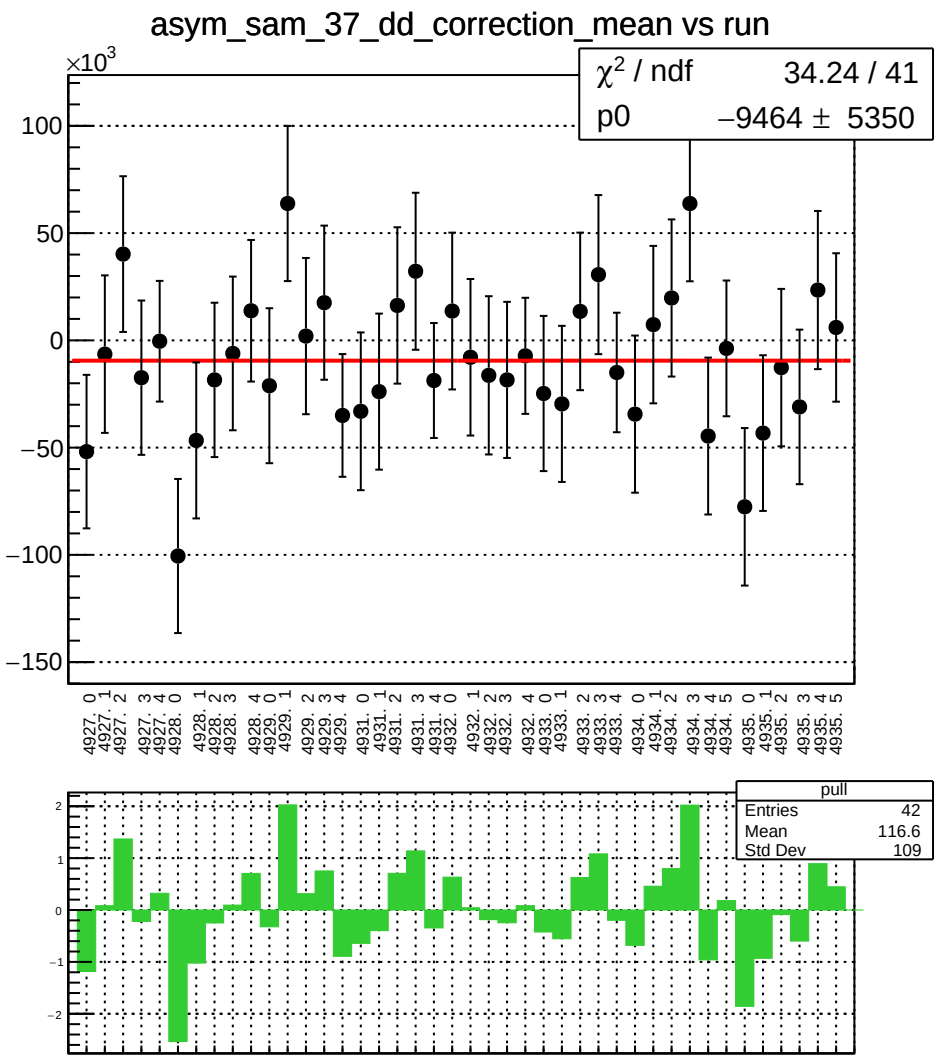

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 36.1 / 41
p0 −6814 ± 3836
80
60
40
20
0
−20
−40
−60
−80
−100
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 71.52
Std Dev 68.42
2
1
0
−1
−2
pull1D
Entries 42
Mean 0.0089
Std Dev 0.9271
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

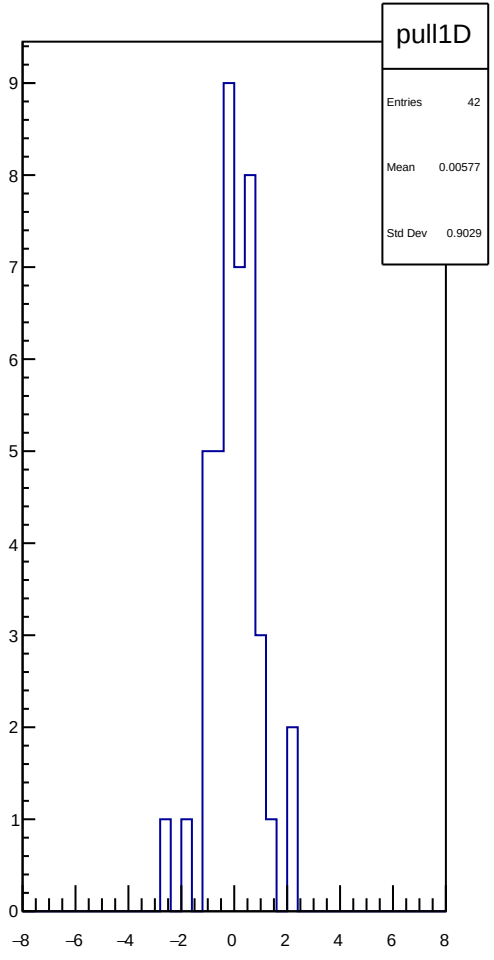

asym_sam_26_dd_correction_rms vs run
χ² / ndf 53.55 / 41
p0 2478 ± 2.713
2560
2540
2520
2500
2480
2460
2440
2420
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

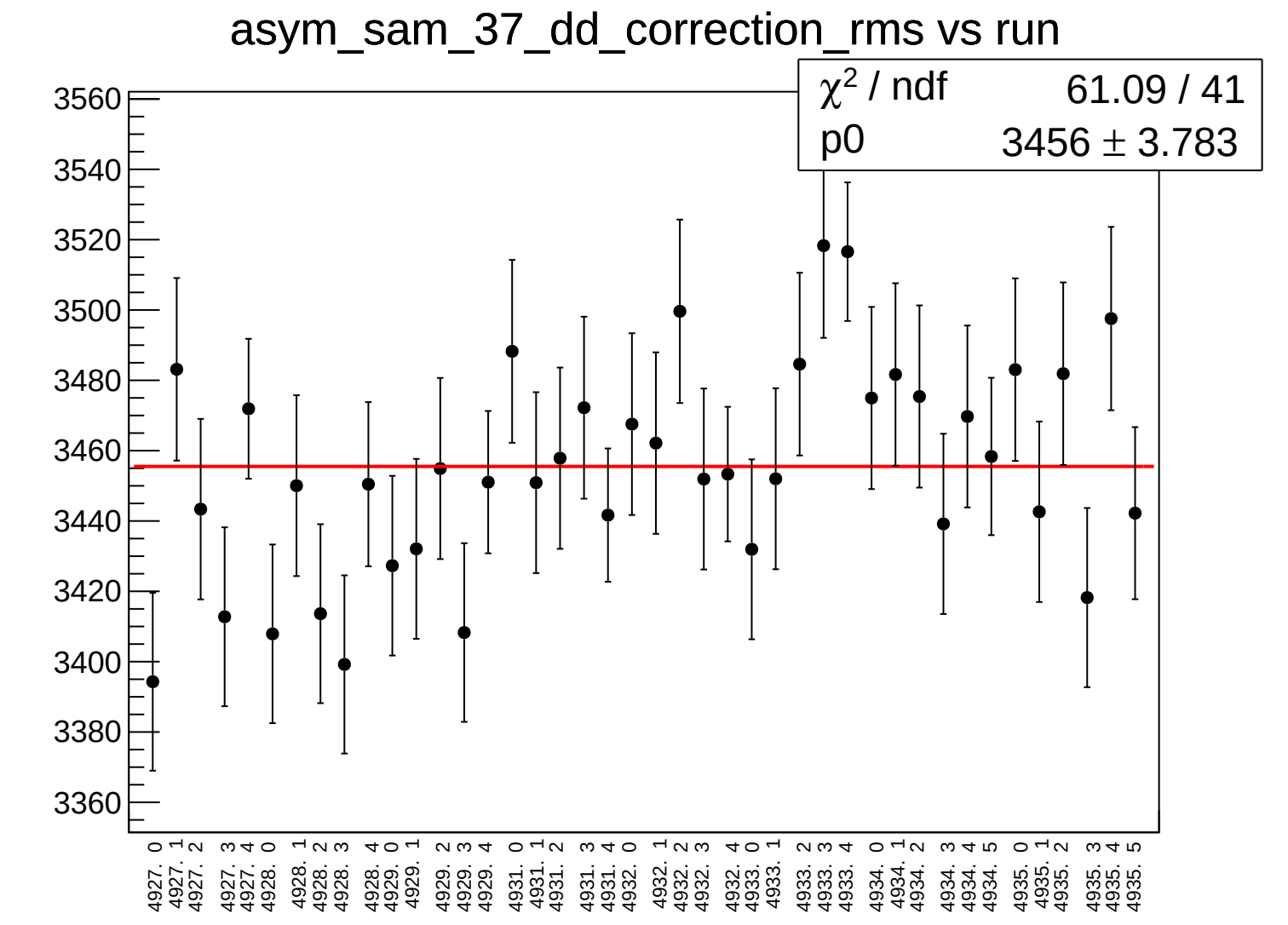

reg_asym_sam_37_dd_mean vs run
χ² / ndf 50.03 / 41
p0 −1620 ± 579.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 184.8
Std Dev 164.1
3
2
1
0
−1
−2
−3

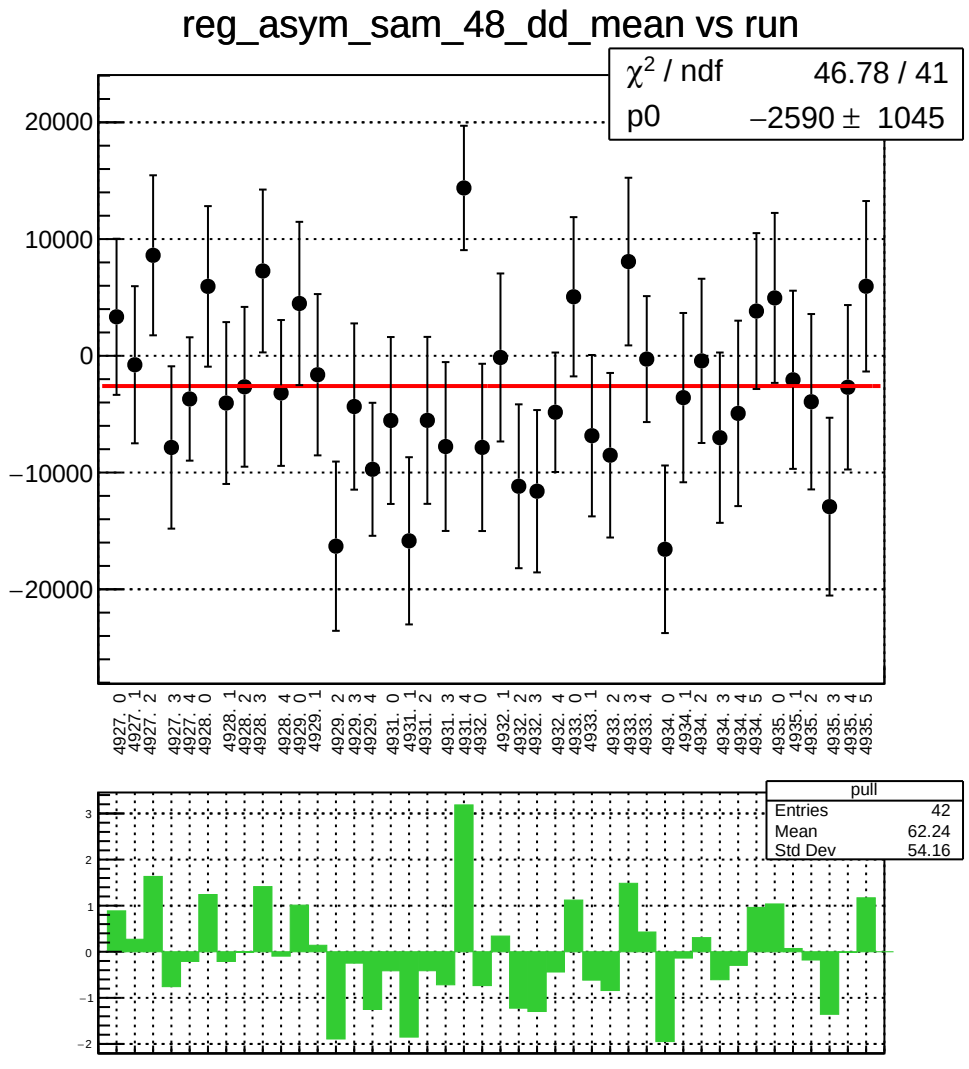

pull1D
Entries 42
Mean 0.02655
Std Dev 1.091
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

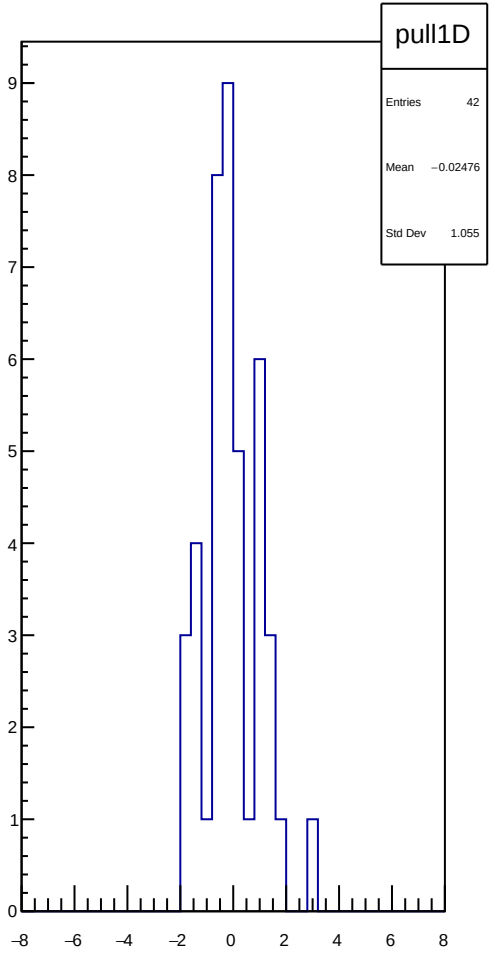

reg_asym_sam_37_dd_rms vs run
χ² / ndf 1.298e+04 / 41
p0 371.3 ± 0.4097
600
550
500
450
400
350
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

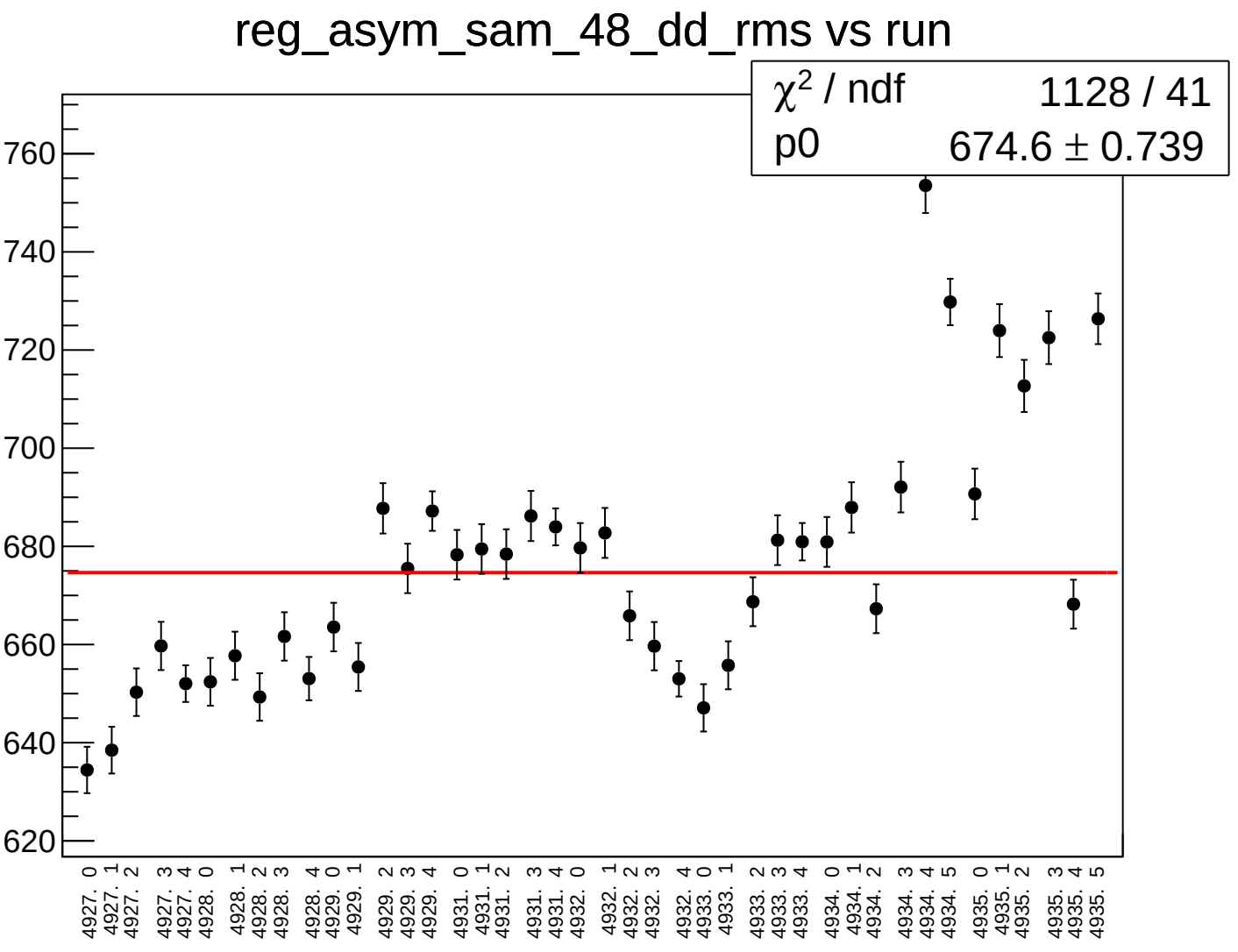

asym_sam_37_dd_correction_mean vs run
×10^3
χ² / ndf 34.24 / 41
p0 −9464 ± 5350
100
50
0
−50
−100
−150
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 116.6
Std Dev 109
2
1
0
−1
−2

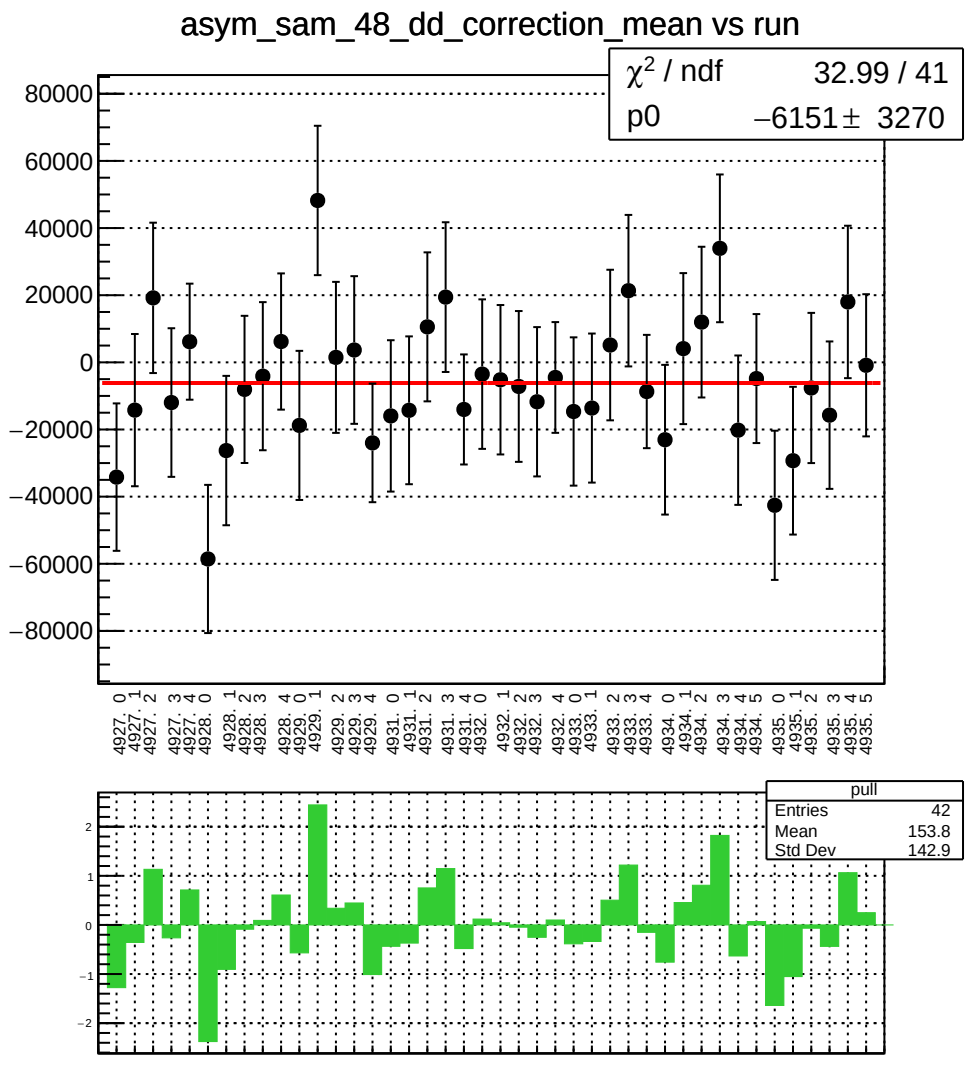

pull1D
Entries 42
Mean 0.00577
Std Dev 0.9029
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

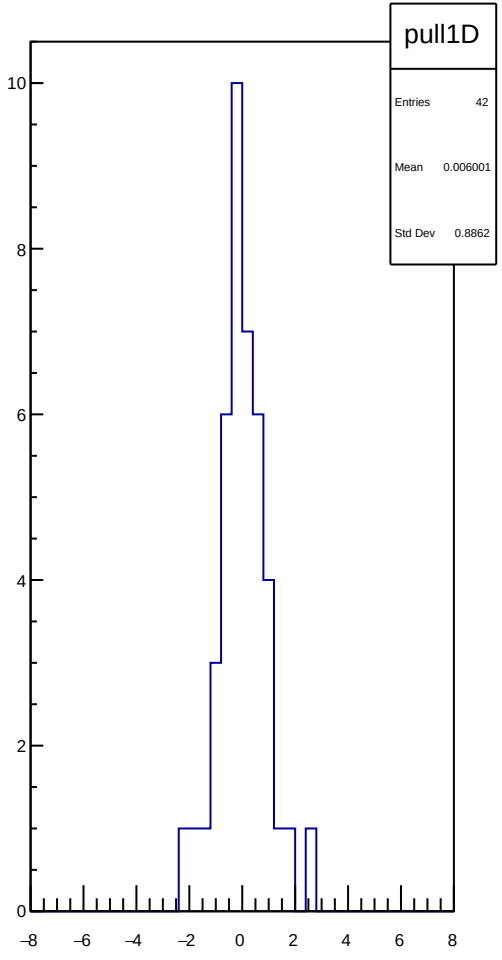

asym_sam_37_dd_correction_rms vs run
χ² / ndf 61.09 / 41
p0 3456 ± 3.783
3560
3540
3520
3500
3480
3460
3440
3420
3400
3380
3360
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

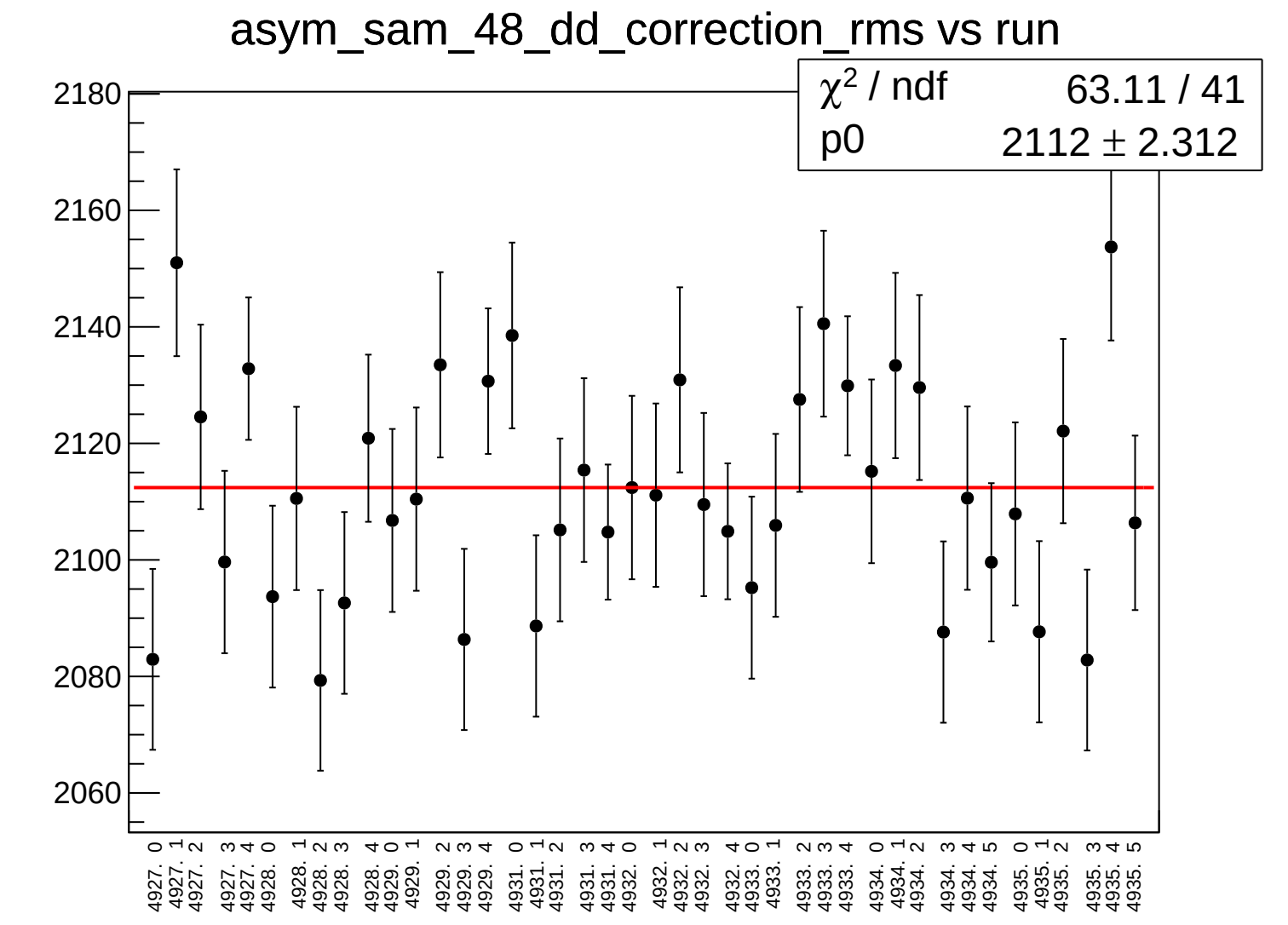

reg_asym_sam_48_dd_mean vs run
χ² / ndf 46.78 / 41
p0 −2590 ± 1045
20000
10000
0
−10000
−20000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 62.24
Std Dev 54.16
3
2
1
0
−1
−2

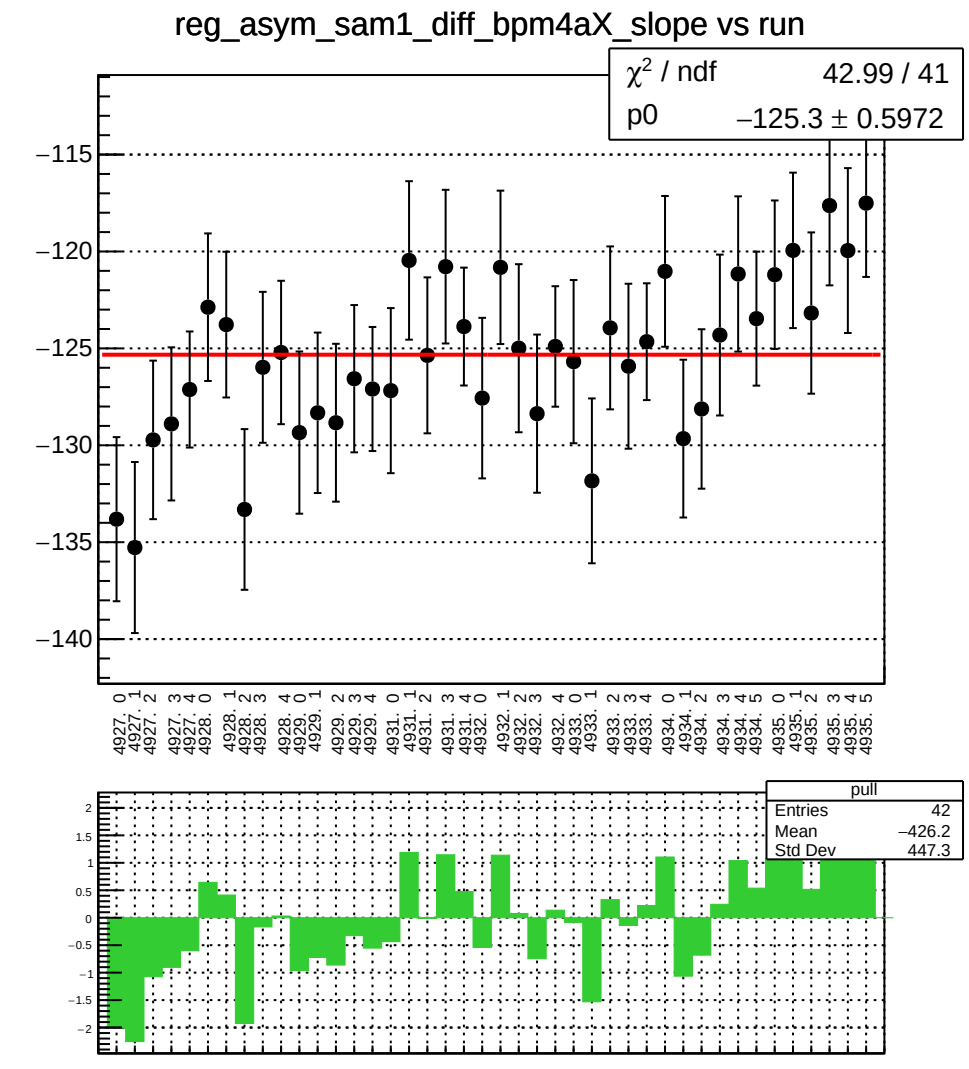

pull1D
Entries 42
Mean −0.02476
Std Dev 1.055
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

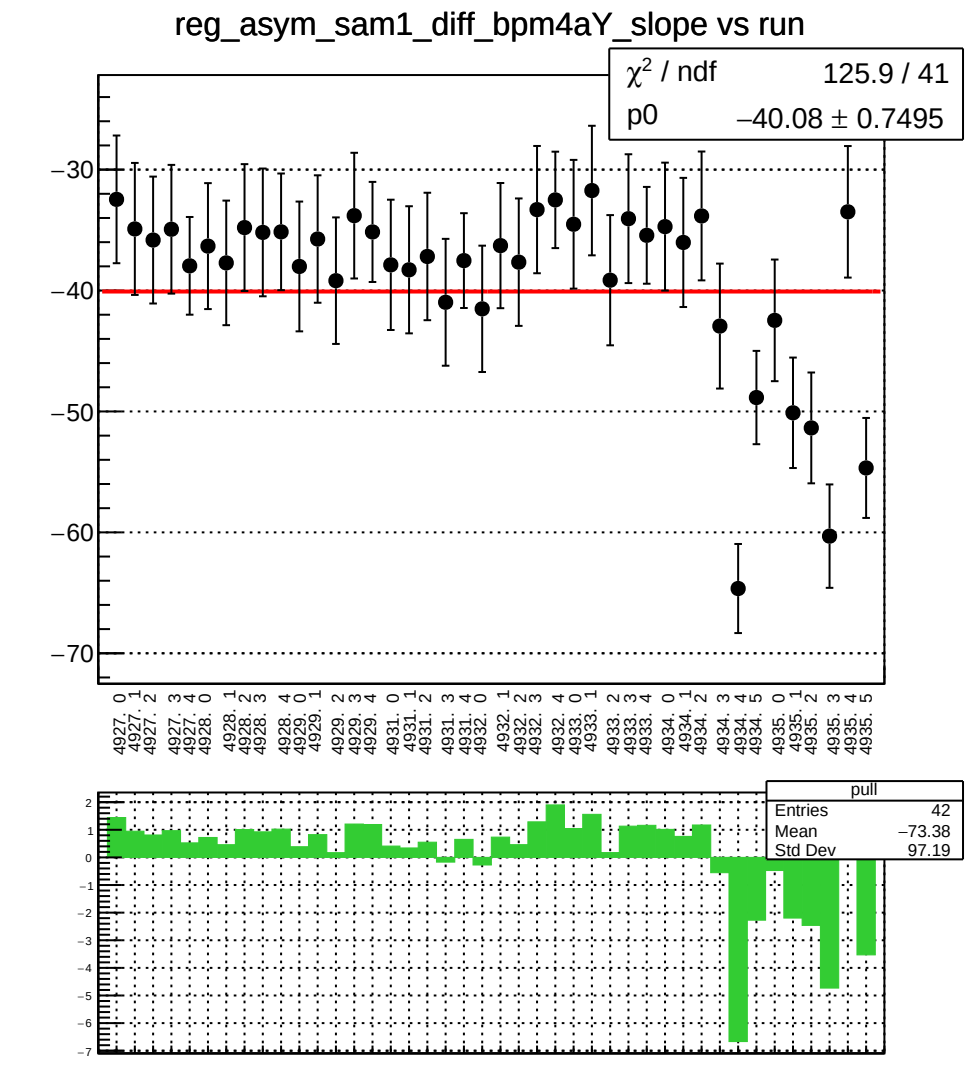

reg_asym_sam_48_dd_rms vs run
χ² / ndf 1128 / 41
p0 674.6 ± 0.739
760
740
720
700
680
660
640
620
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

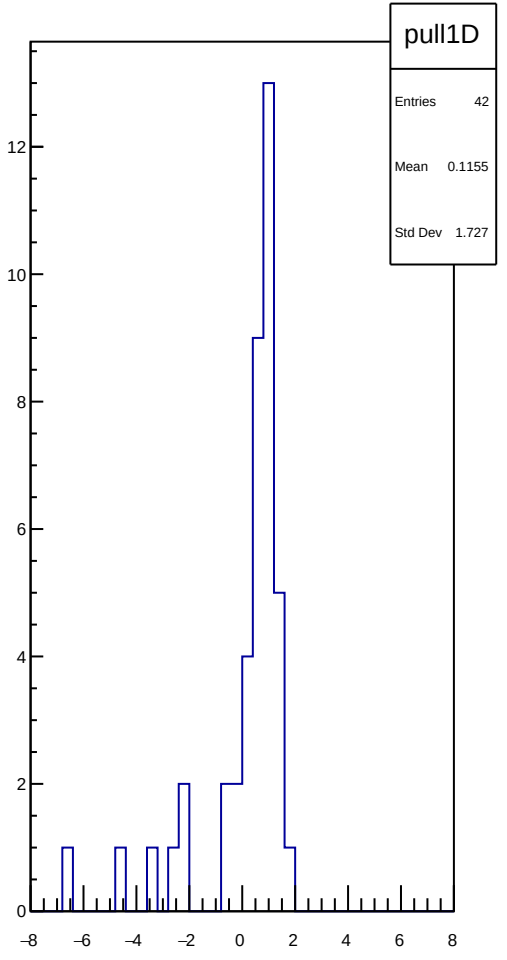

asym_sam_48_dd_correction_mean vs run
χ² / ndf 32.99 / 41
p0 −6151 ± 3270
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 153.8
Std Dev 142.9
2
1
0
−1
−2

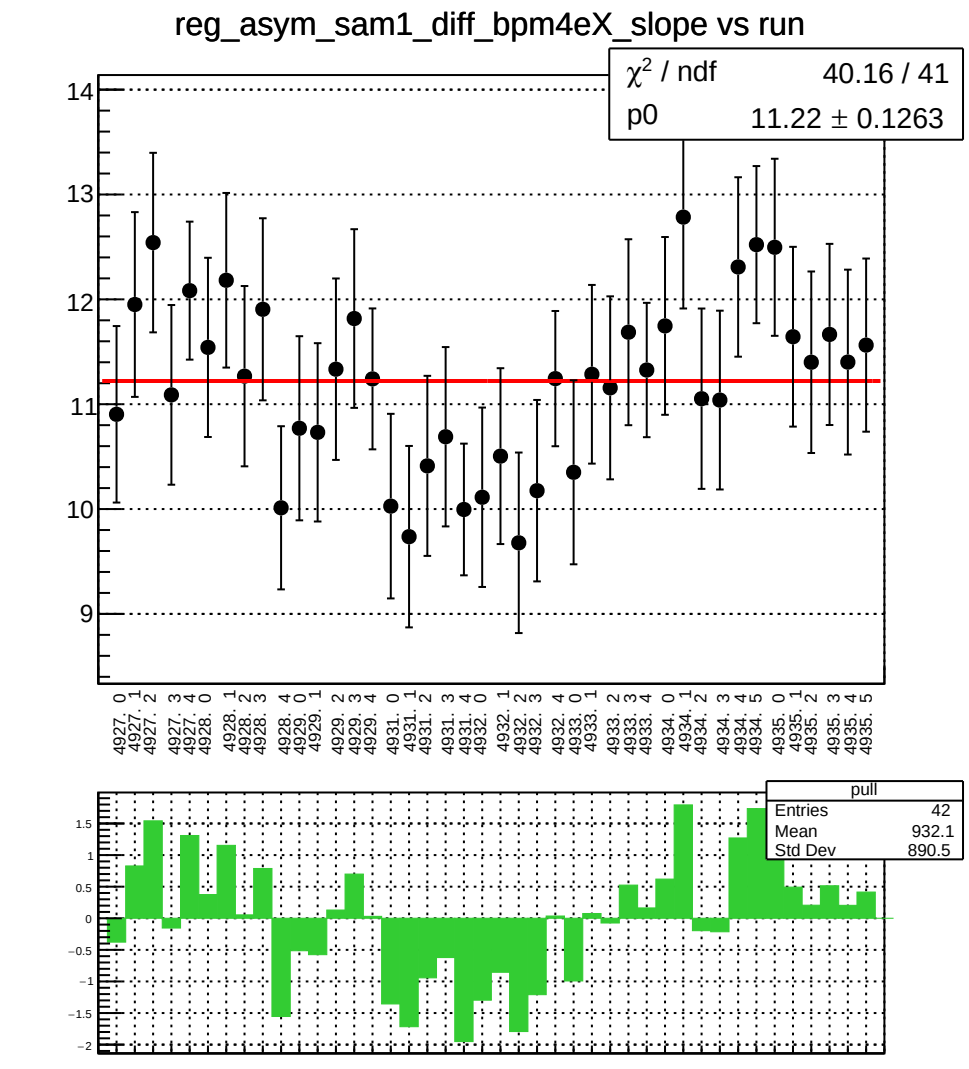

pull1D
Entries 42
Mean 0.006001
Std Dev 0.8862
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

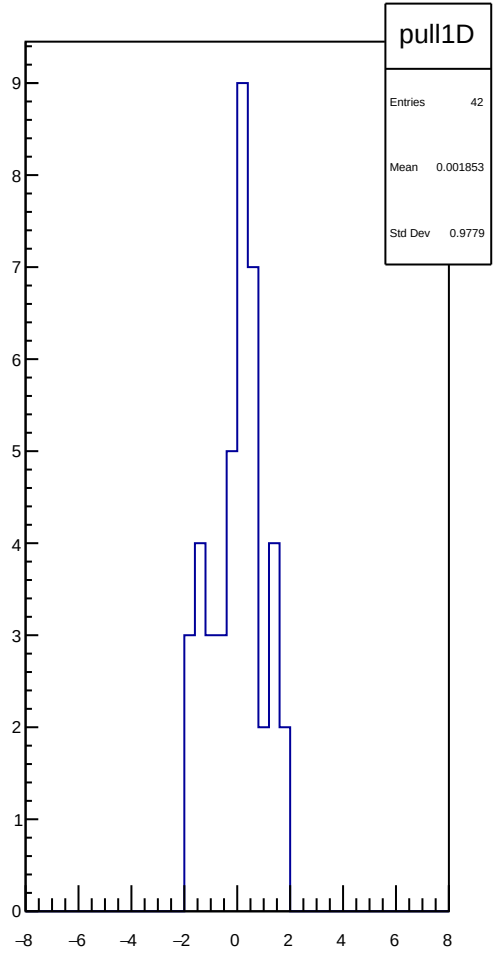

asym_sam_48_dd_correction_rms vs run
χ² / ndf 63.11 / 41
p0 2112 ± 2.312
2180
2160
2140
2120
2100
2080
2060
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

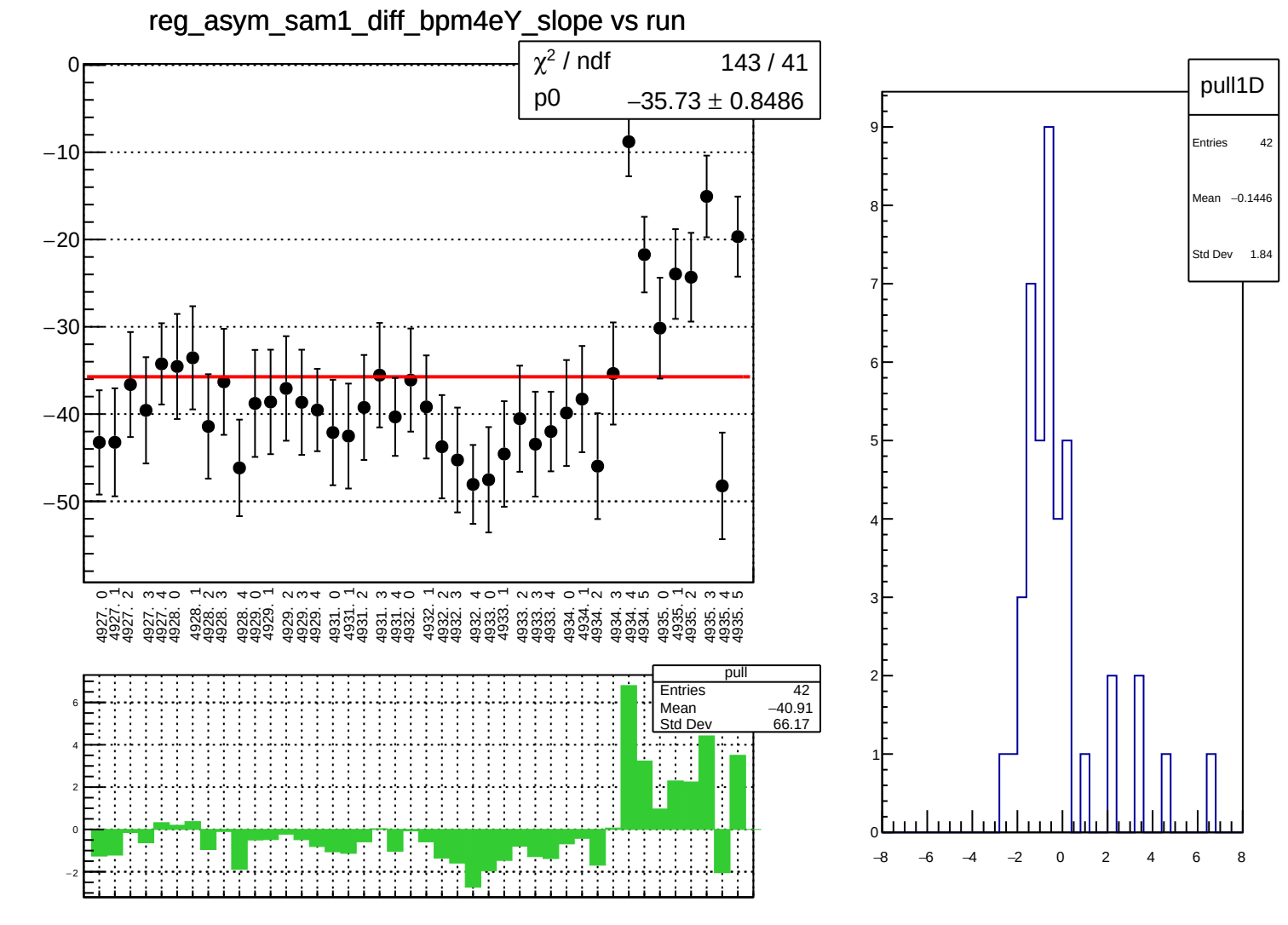

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 42.99 / 41
p0 −125.3 ± 0.5972
−115
−120
−125
−130
−135
−140
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −426.2
Std Dev 447.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 42
Mean −0.01734
Std Dev 1.012
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

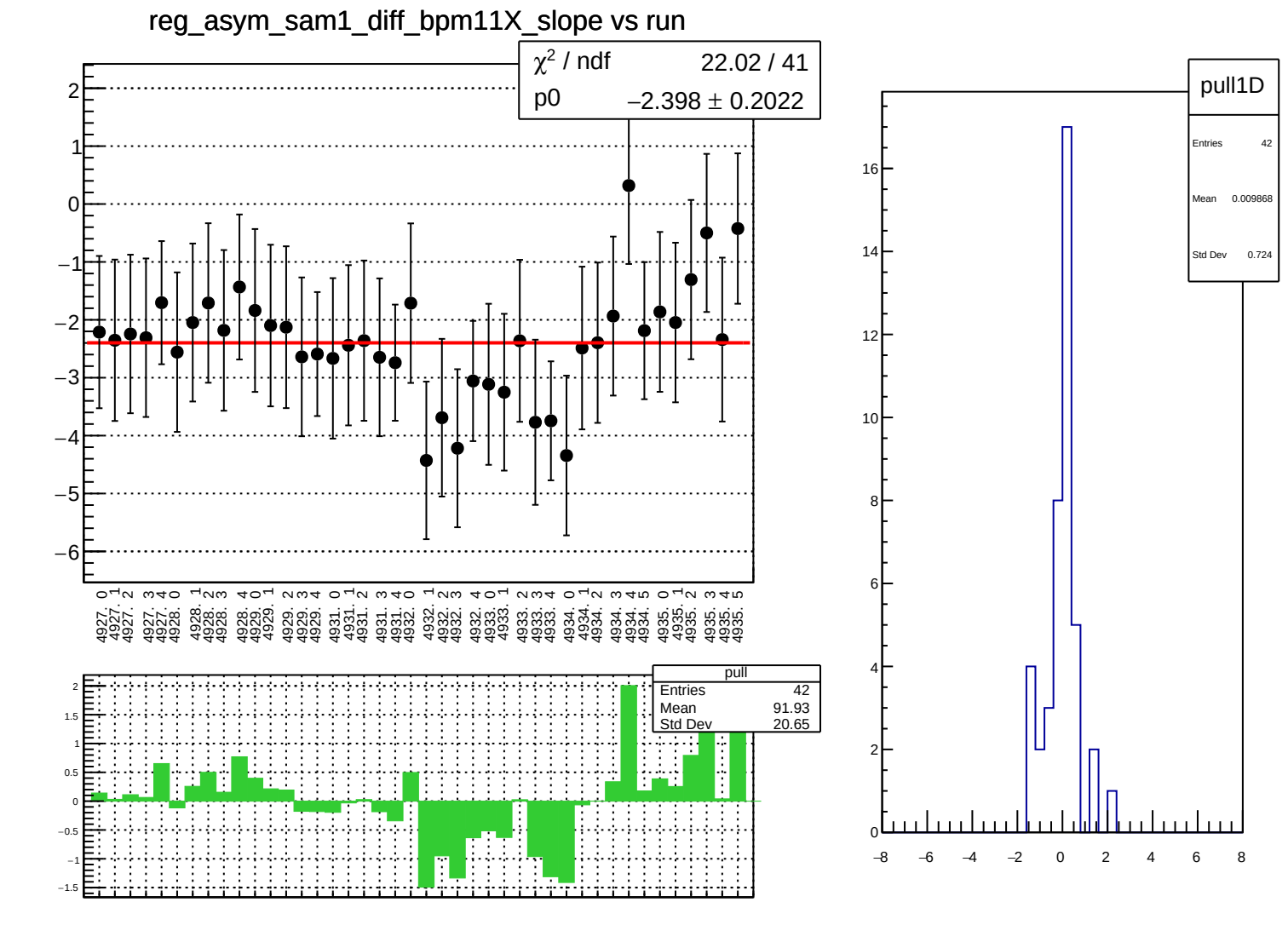

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 125.9 / 41
p0 −40.08 ± 0.7495
−30
−40
−50
−60
−70
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −73.38
Std Dev 97.19
2
1
0
−1
−2
−3
−4
−5
−6
−7

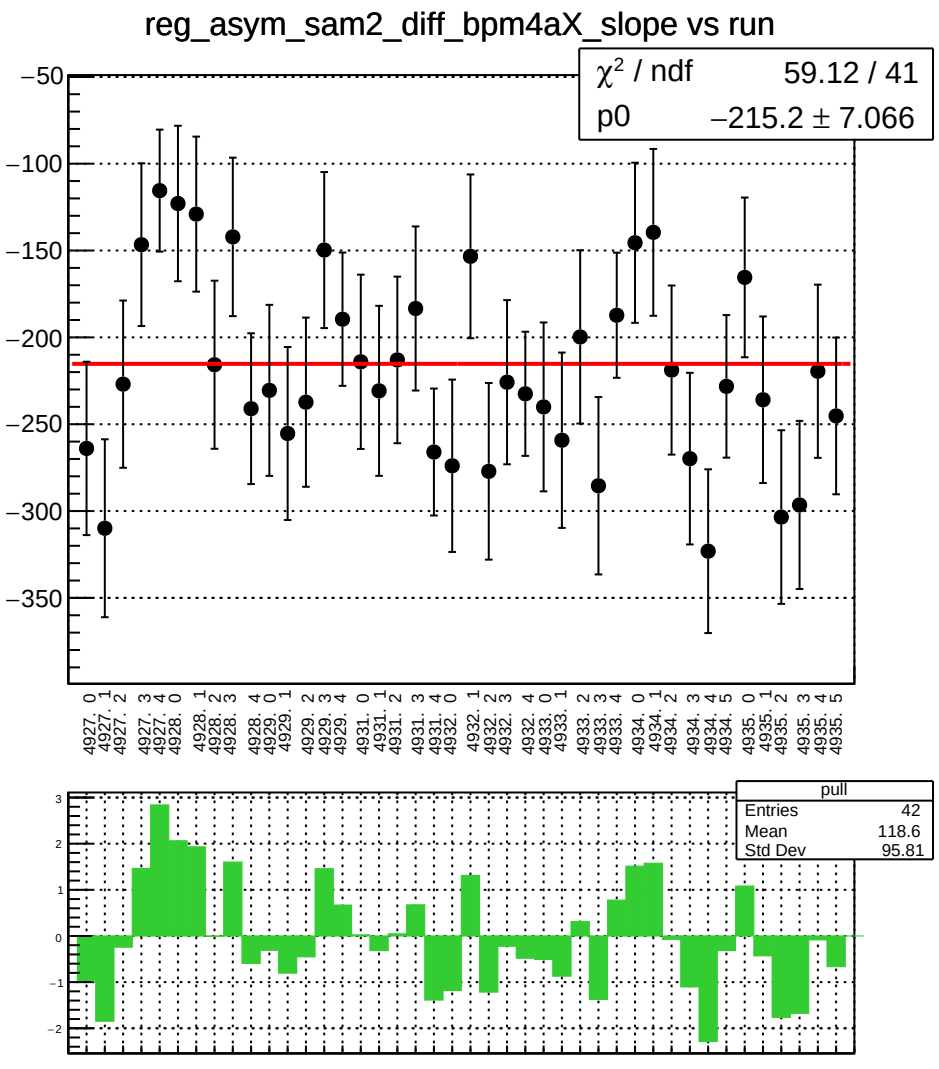

pull1D
Entries 42
Mean 0.1155
Std Dev 1.727
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

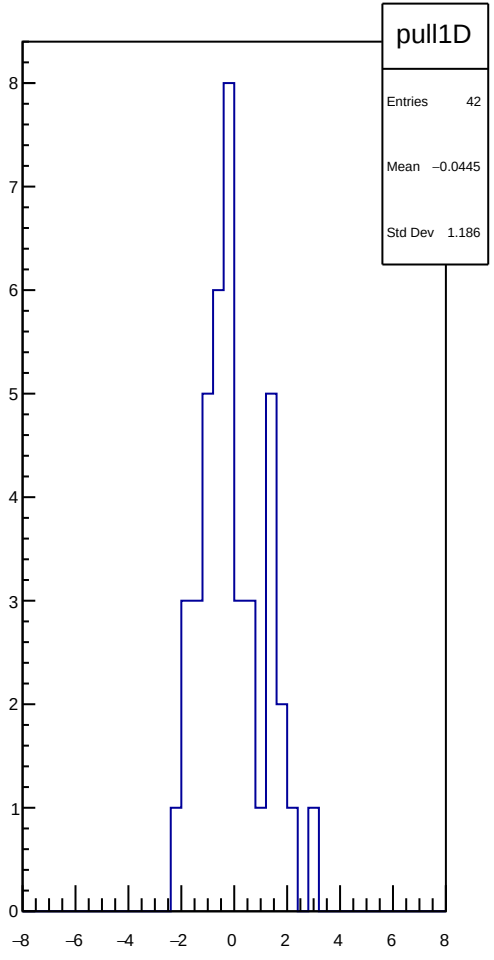

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 40.16 / 41
p0 11.22 ± 0.1263
pull
Entries 42
Mean 932.1
Std Dev 890.5

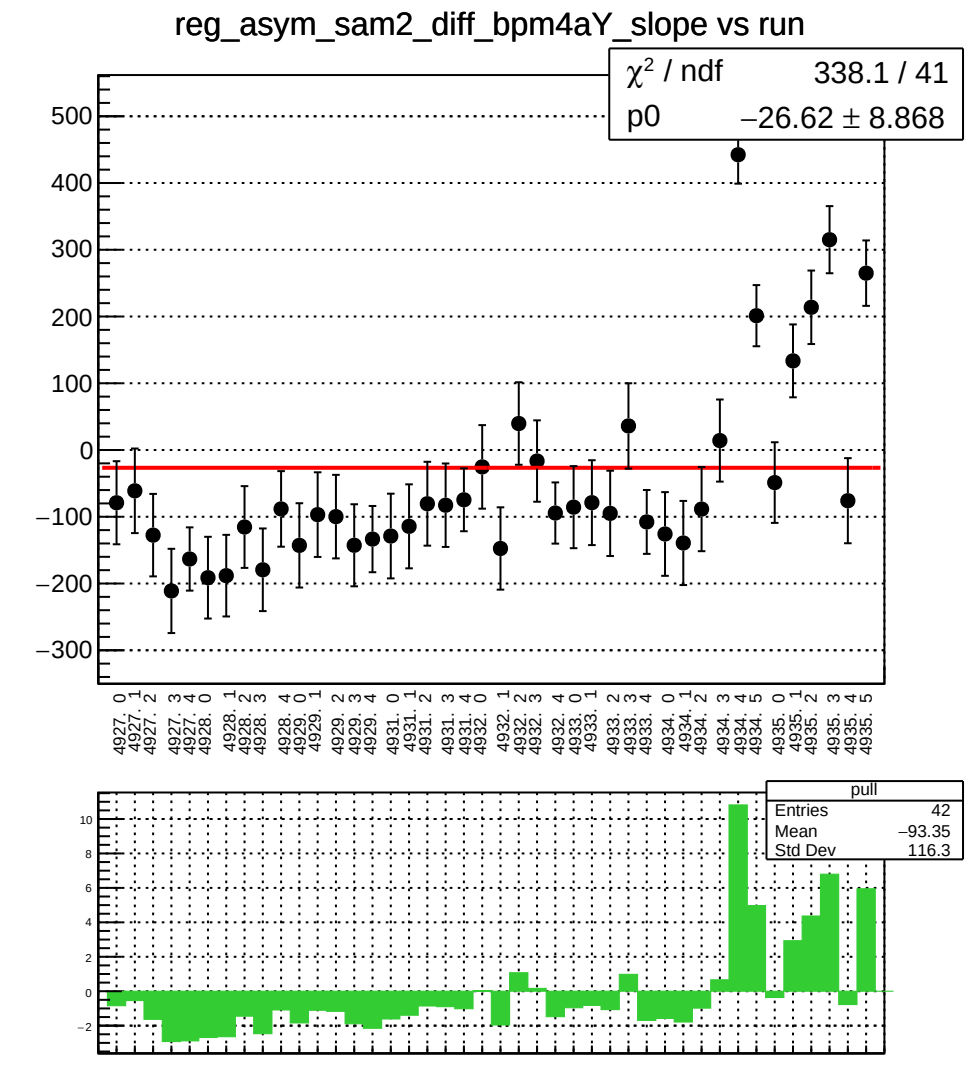

pull1D
Entries 42
Mean 0.001853
Std Dev 0.9779

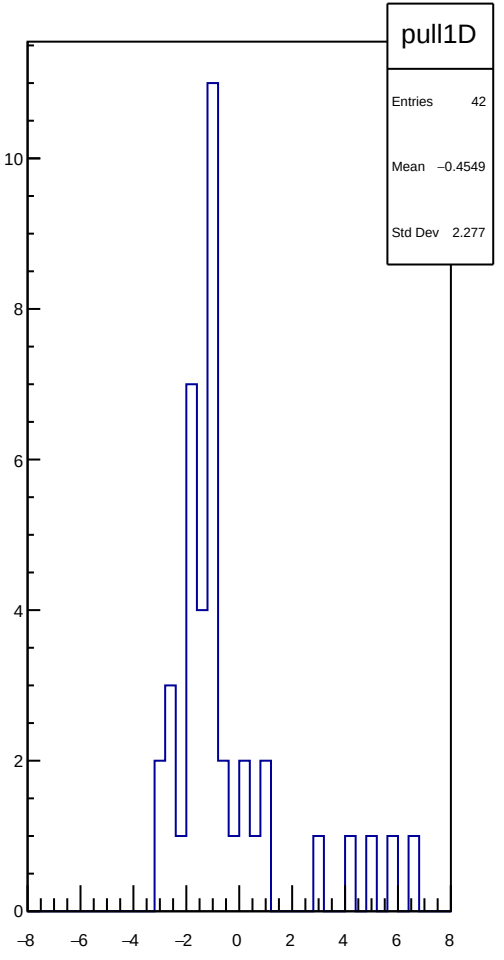

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 143 / 41
p0 −35.73 ± 0.8486
pull
Entries 42
Mean −40.91
Std Dev 66.17
pull1D
Entries 42
Mean −0.1446
Std Dev 1.84

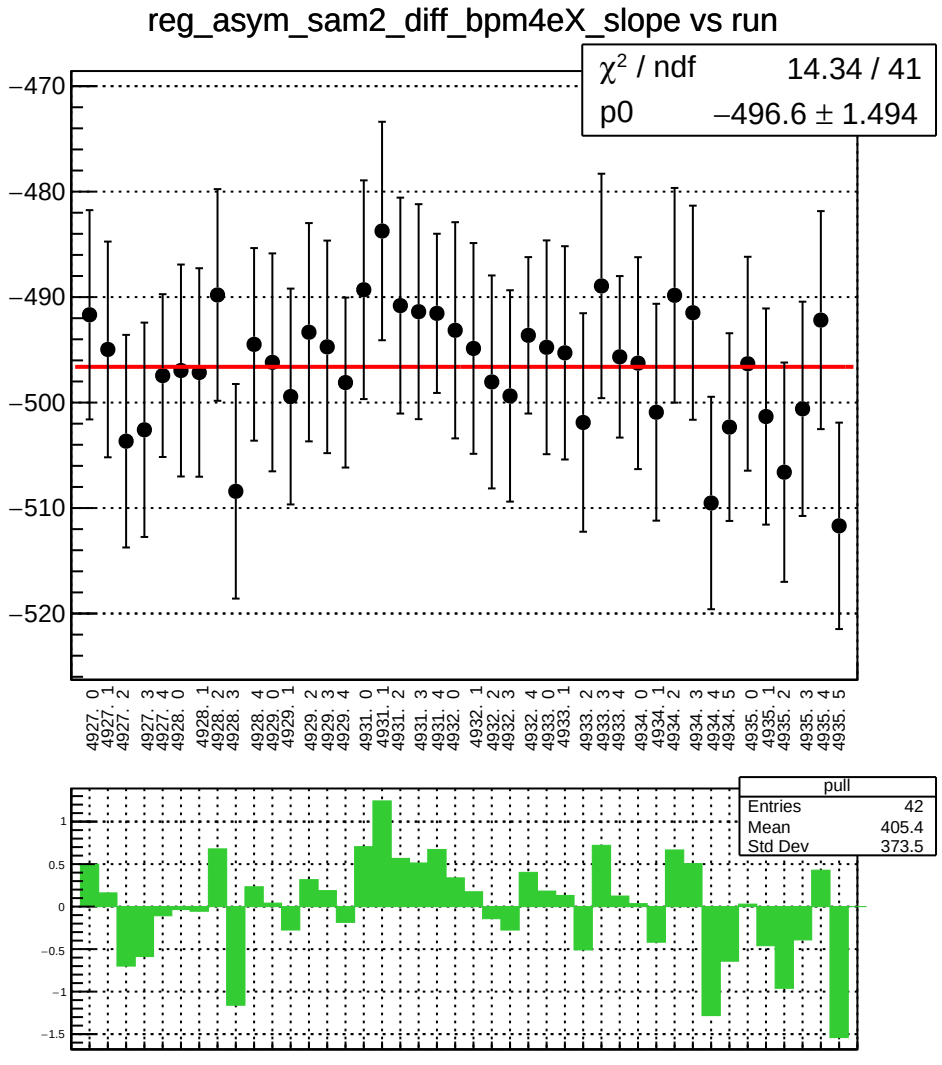

reg_asym_sam1_diff_bpm11X_slope vs run
χ² / ndf 22.02 / 41
p0 −2.398 ± 0.2022
pull
Entries 42
Mean 91.93
Std Dev 20.65
pull1D
Entries 42
Mean 0.009868
Std Dev 0.724

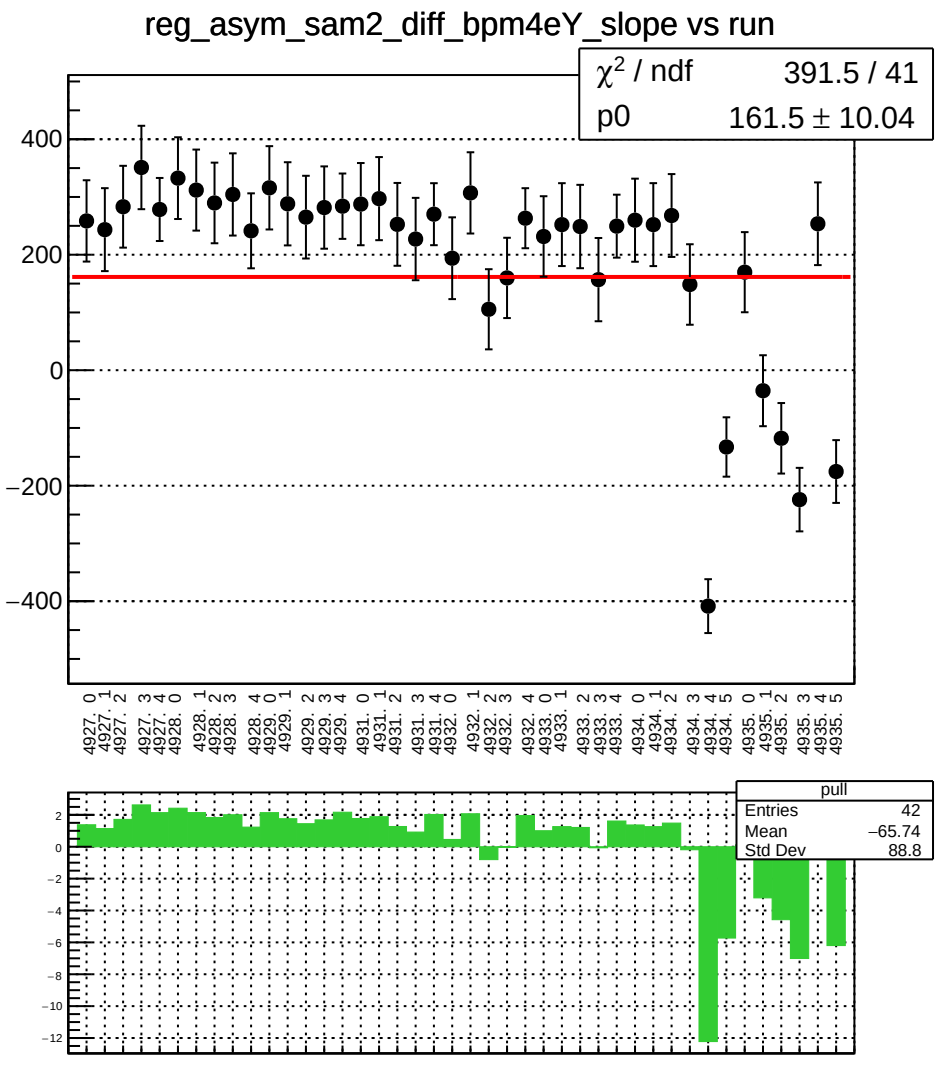

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 59.12 / 41
p0 −215.2 ± 7.066
pull
Entries 42
Mean 118.6
Std Dev 95.81

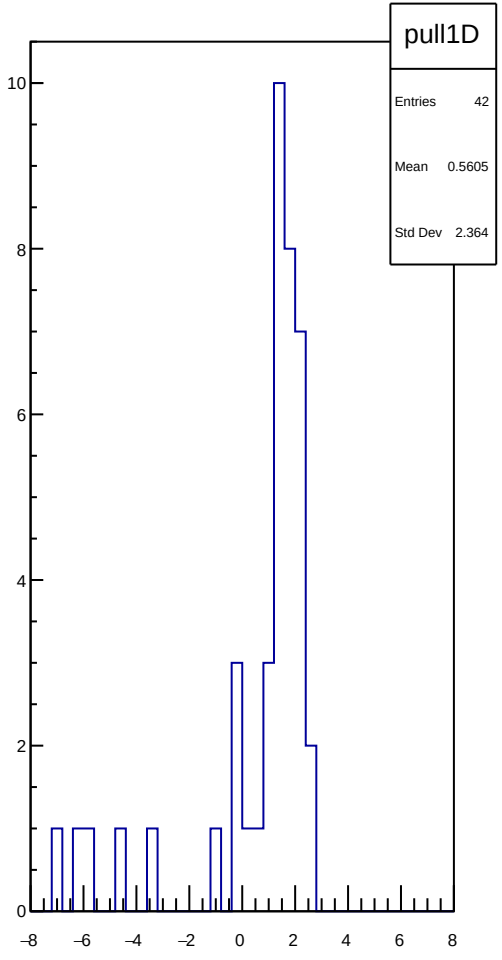

pull1D
Entries 42
Mean −0.0445
Std Dev 1.186

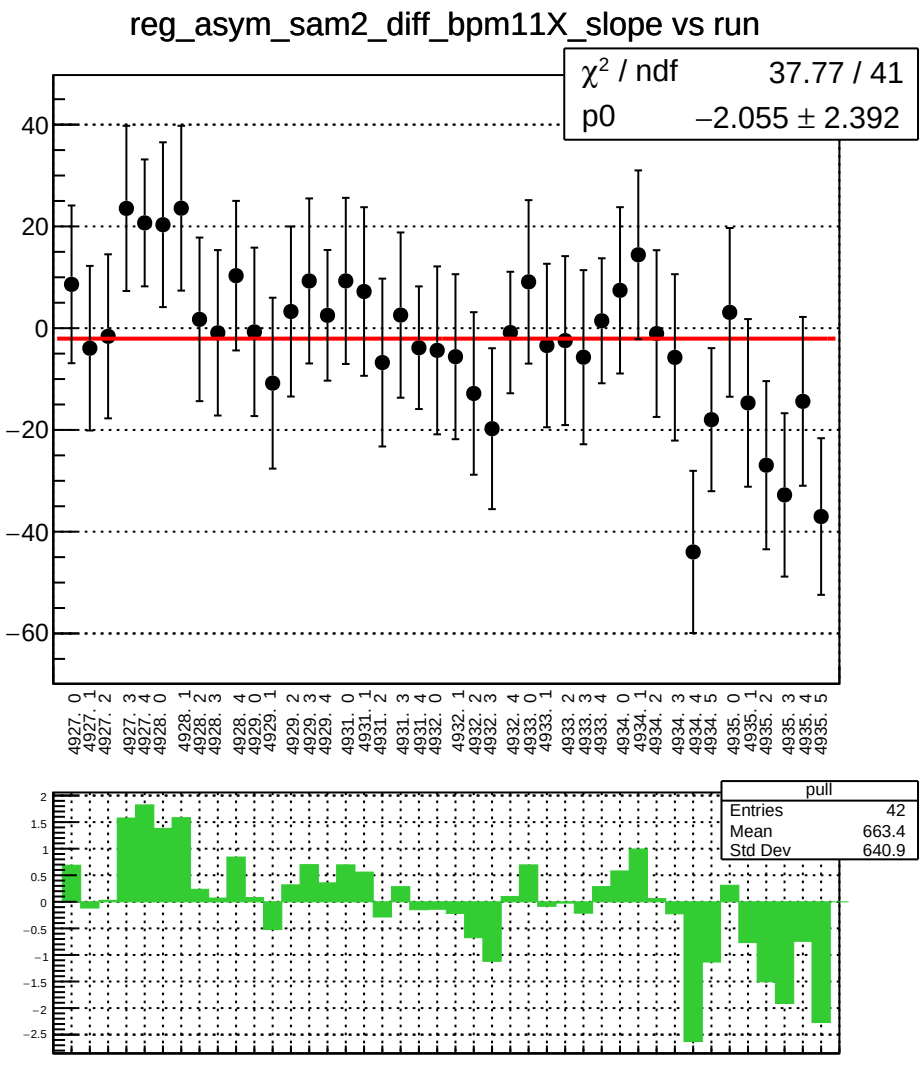

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 338.1 / 41
p0 −26.62 ± 8.868
pull
Entries 42
Mean −93.35
Std Dev 116.3

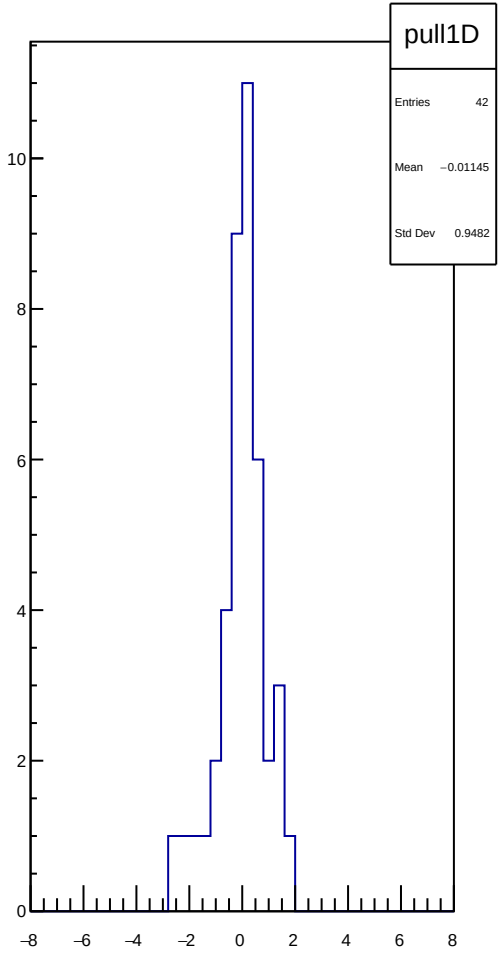

pull1D
Entries 42
Mean −0.4549
Std Dev 2.277

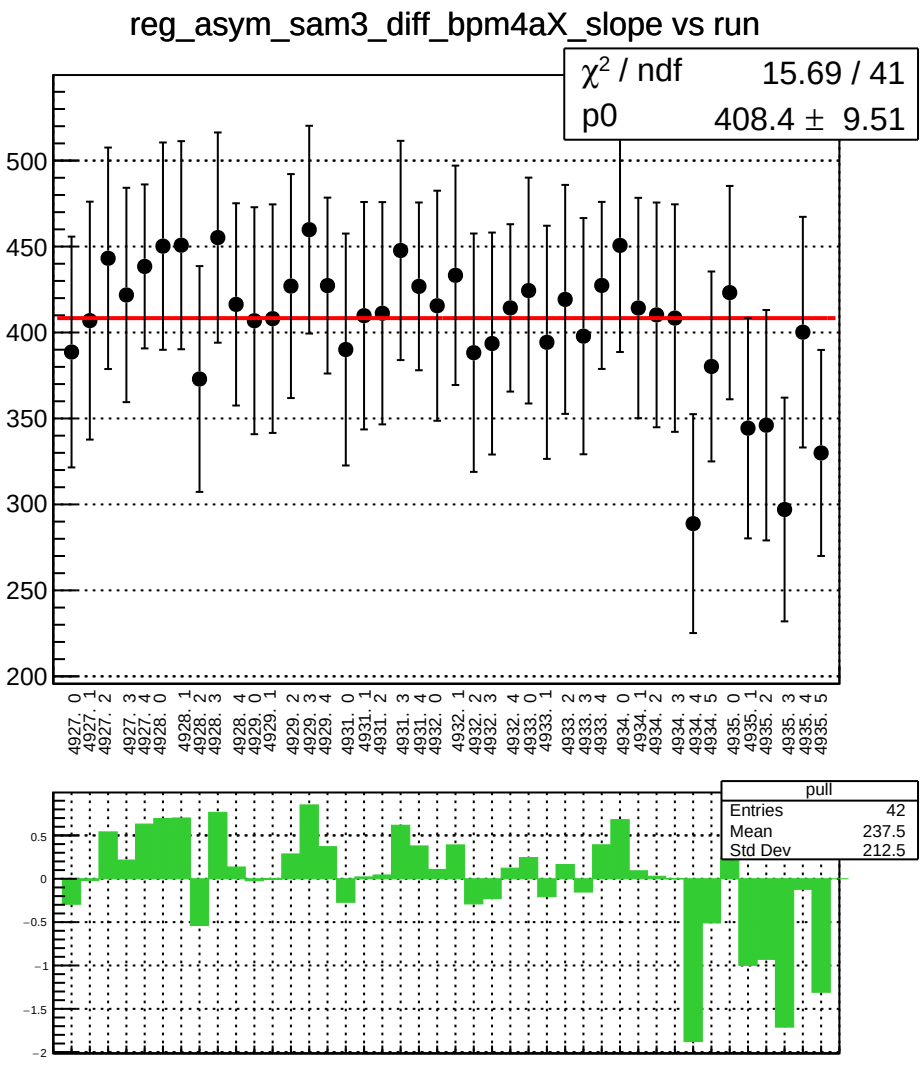

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 14.34 / 41
p0 −496.6 ± 1.494
−470
−480
−490
−500
−510
−520
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 405.4
Std Dev 373.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean −0.004017
Std Dev 0.5842
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

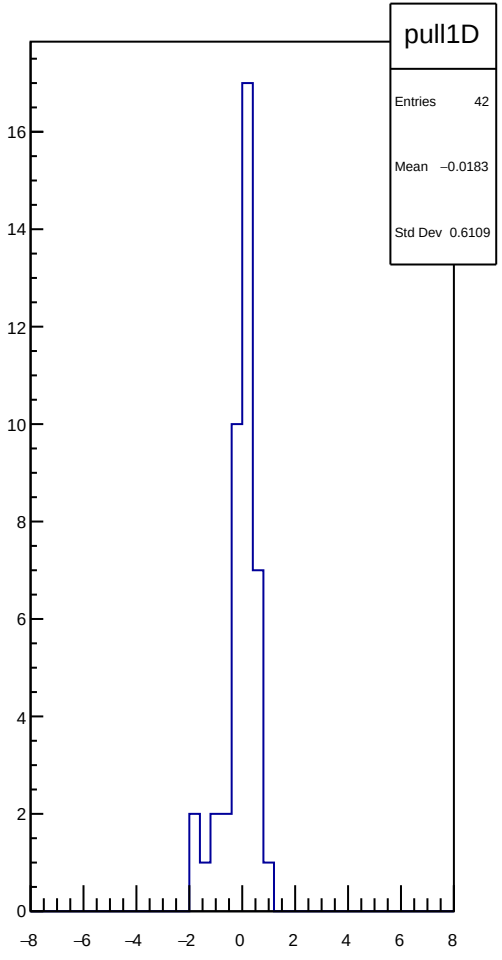

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 391.5 / 41
p0 161.5 ± 10.04
400
200
0
−200
−400
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −65.74
Std Dev 88.8
2
0
−2
−4
−6
−8
−10
−12

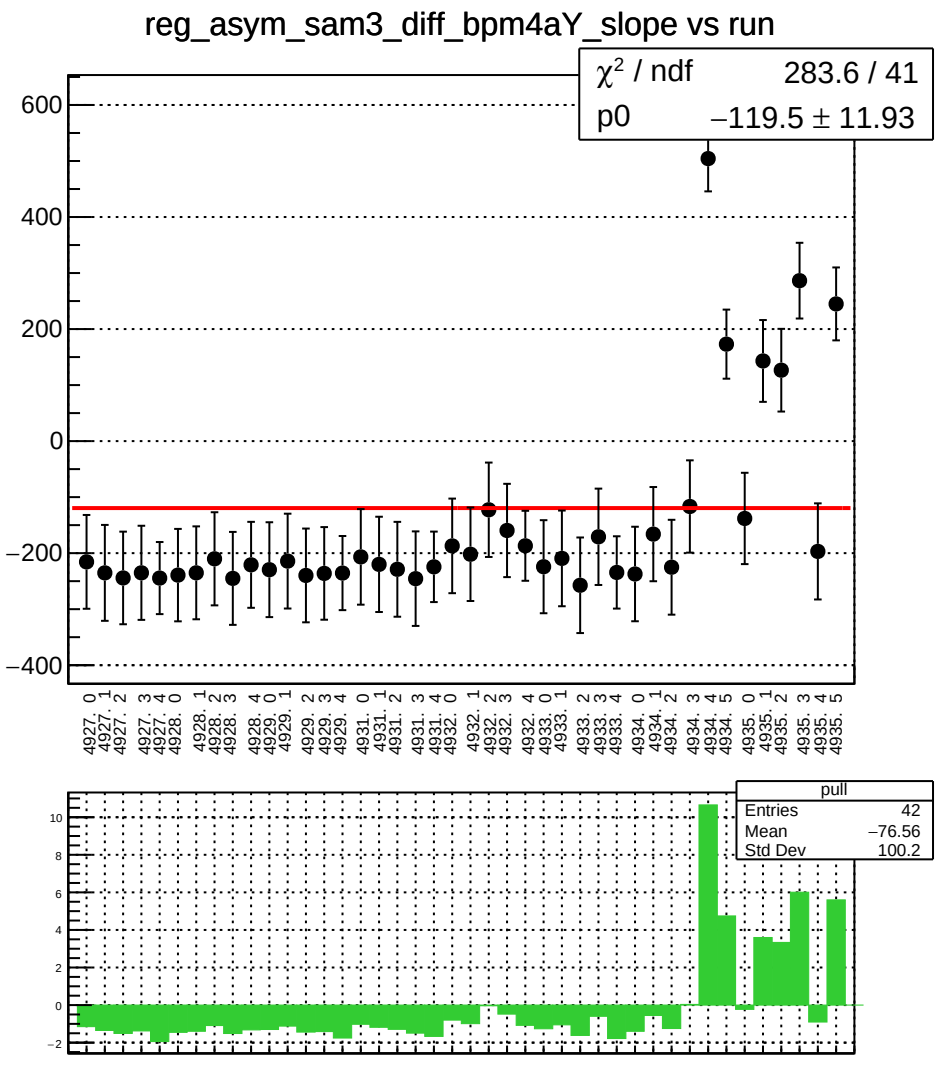

pull1D
Entries 42
Mean 0.5605
Std Dev 2.364
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

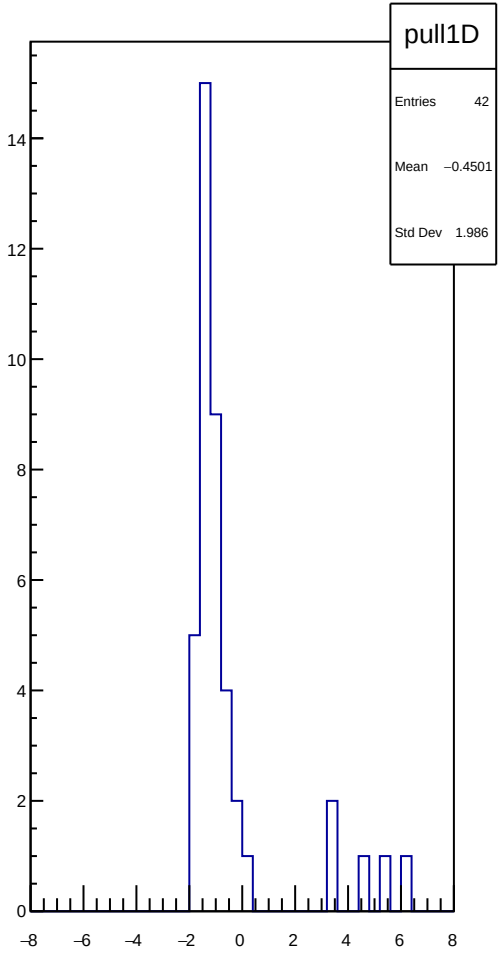

reg_asym_sam2_diff_bpm11X_slope vs run
χ² / ndf 37.77 / 41
p0 −2.055 ± 2.392
pull
Entries 42
Mean 663.4
Std Dev 640.9

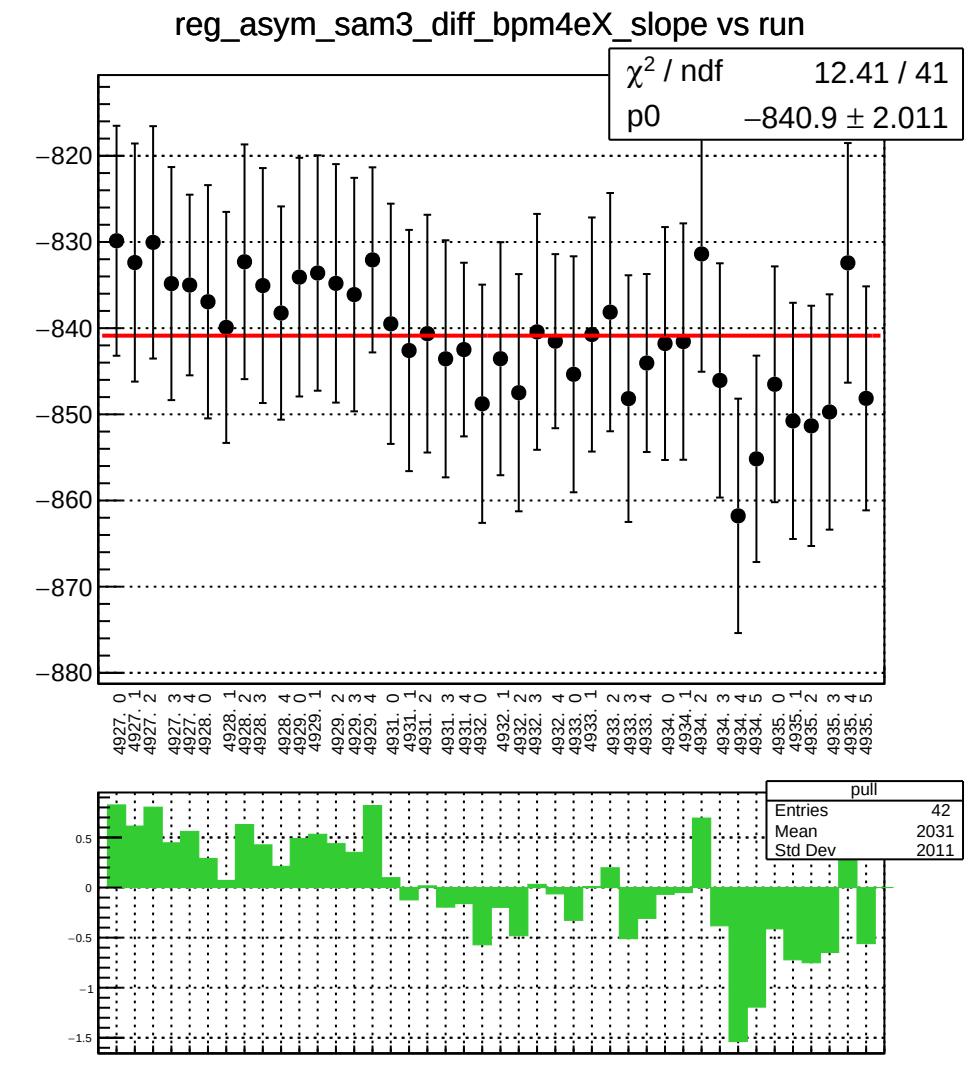

pull1D
Entries 42
Mean −0.01145
Std Dev 0.9482

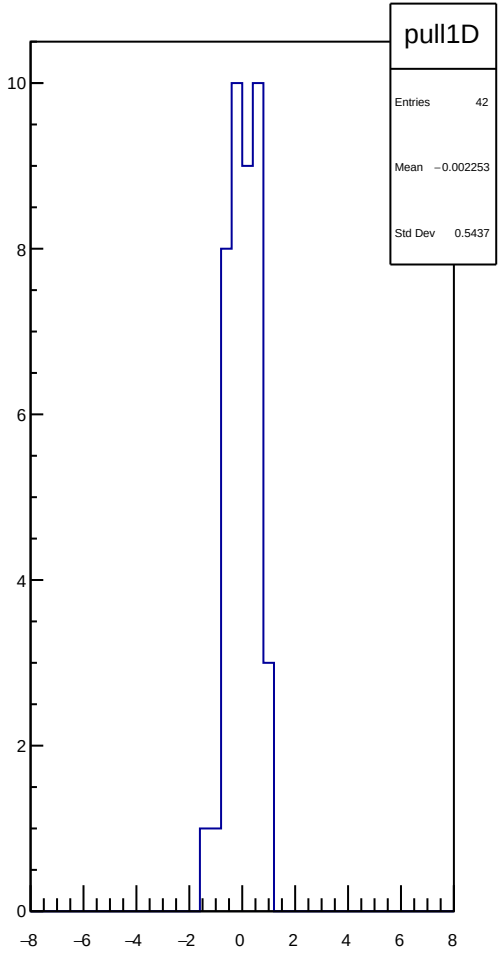

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 15.69 / 41
p0 408.4 ± 9.51
pull
Entries 42
Mean 237.5
Std Dev 212.5

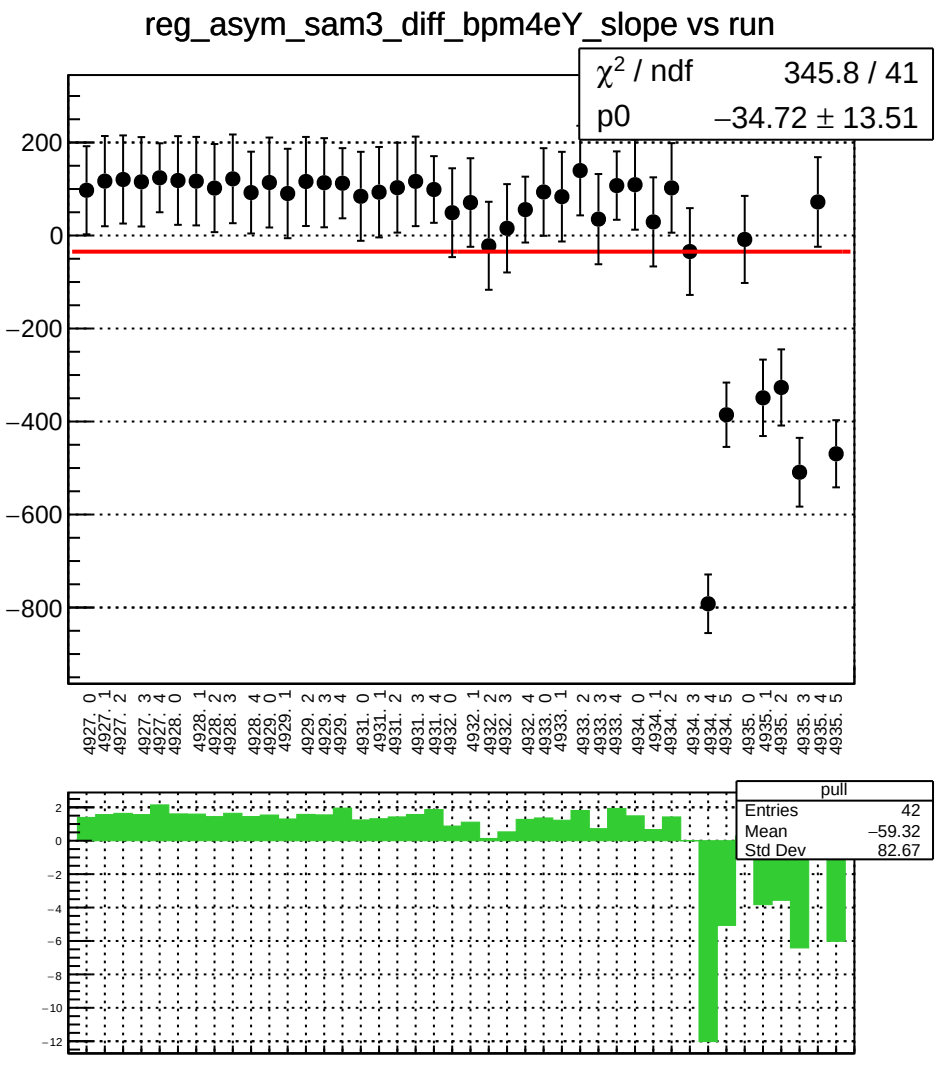

pull1D
Entries 42
Mean −0.0183
Std Dev 0.6109

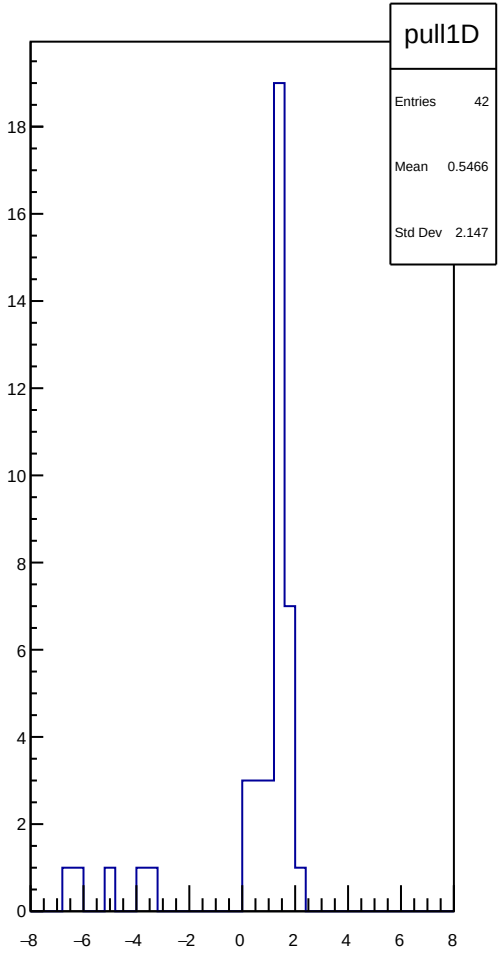

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 283.6 / 41
p0 −119.5 ± 11.93
600
400
200
0
−200
−400
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −76.56
Std Dev 100.2
10
8
6
4
2
0
−2

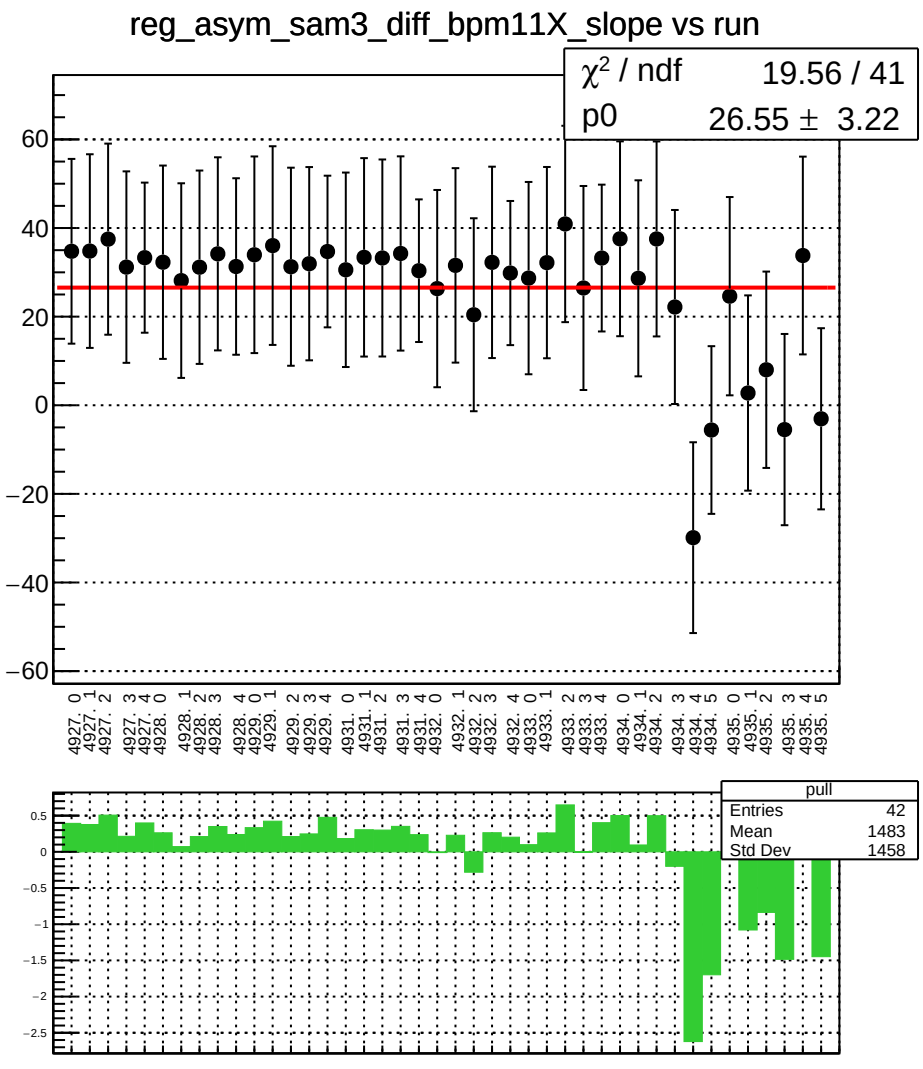

pull1D
Entries 42
Mean −0.4501
Std Dev 1.986
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

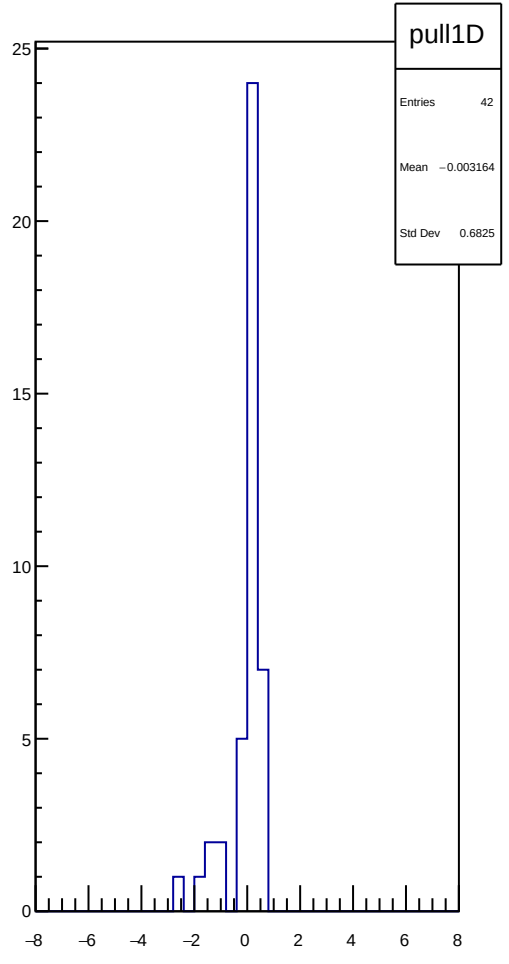

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 12.41 / 41
p0 −840.9 ± 2.011
−820
−830
−840
−850
−860
−870
−880
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 2031
Std Dev 2011
0.5
0
−0.5
−1
−1.5

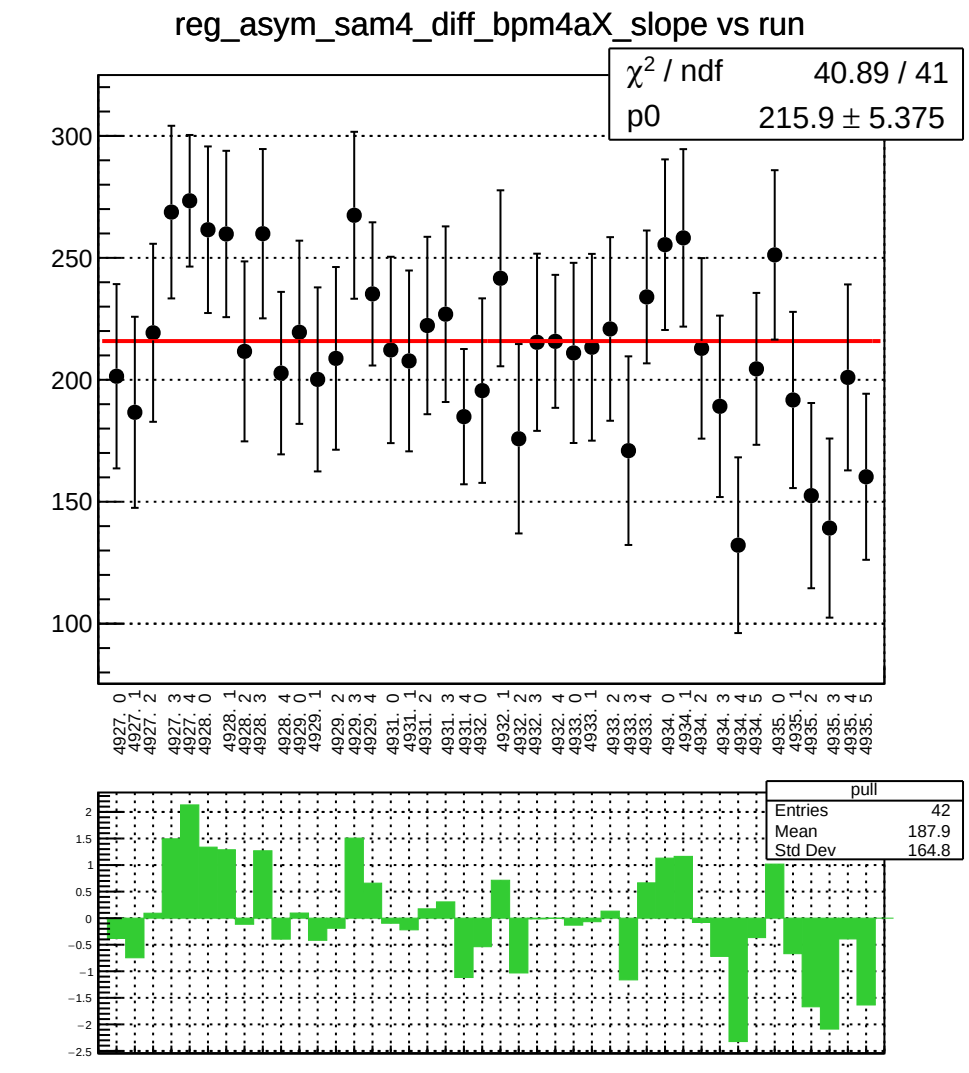

pull1D
Entries 42
Mean −0.002253
Std Dev 0.5437
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

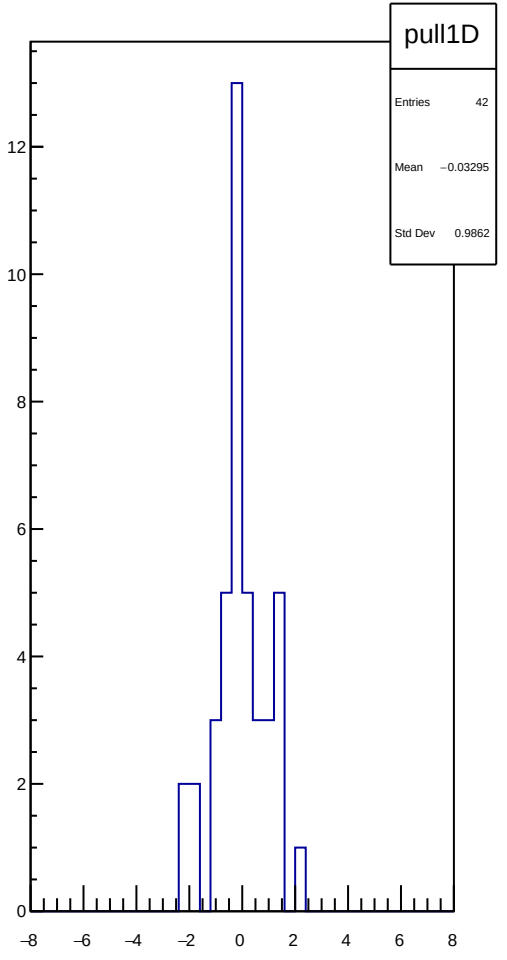

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 345.8 / 41
p0 −34.72 ± 13.51
200
0
−200
−400
−600
−800
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −59.32
Std Dev 82.67
2
0
−2
−4
−6
−8
−10
−12

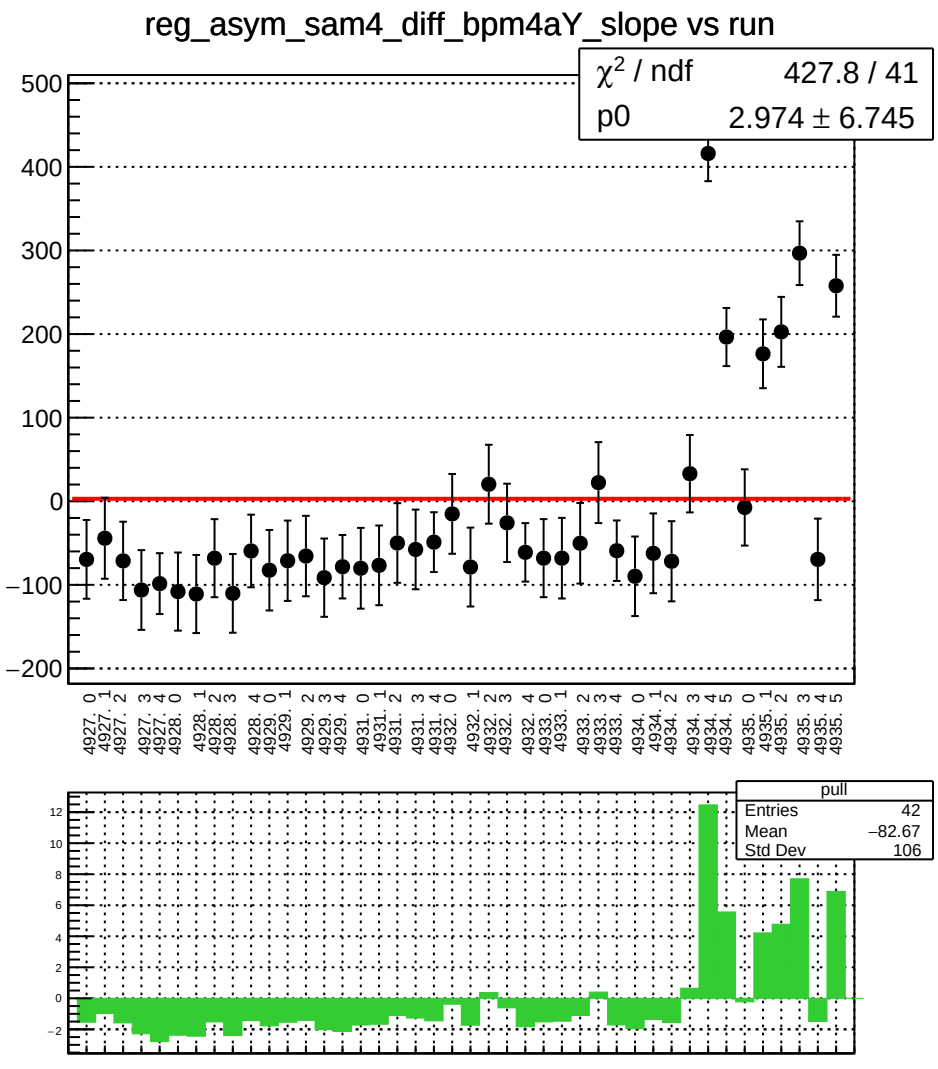

pull1D
Entries 42
Mean 0.5466
Std Dev 2.147
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

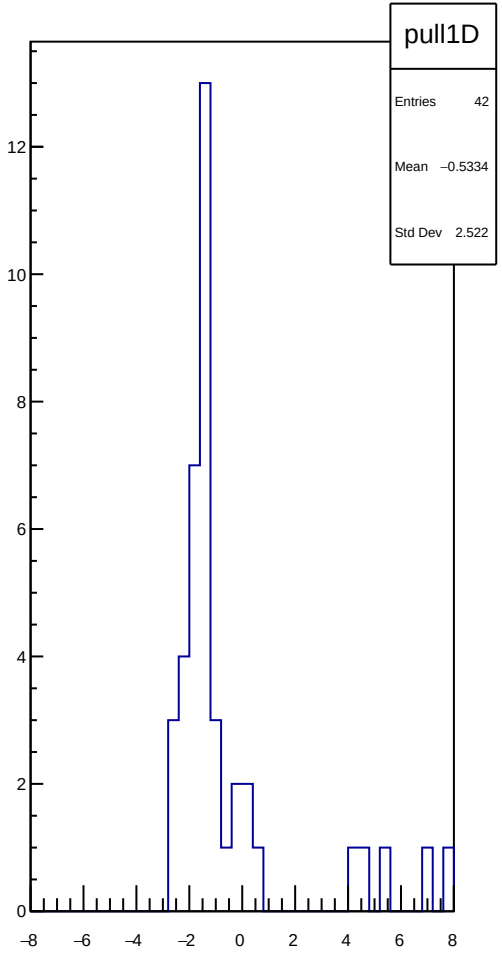

reg_asym_sam3_diff_bpm11X_slope vs run
χ² / ndf 19.56 / 41
p0 26.55 ± 3.22
pull
Entries 42
Mean 1483
Std Dev 1458

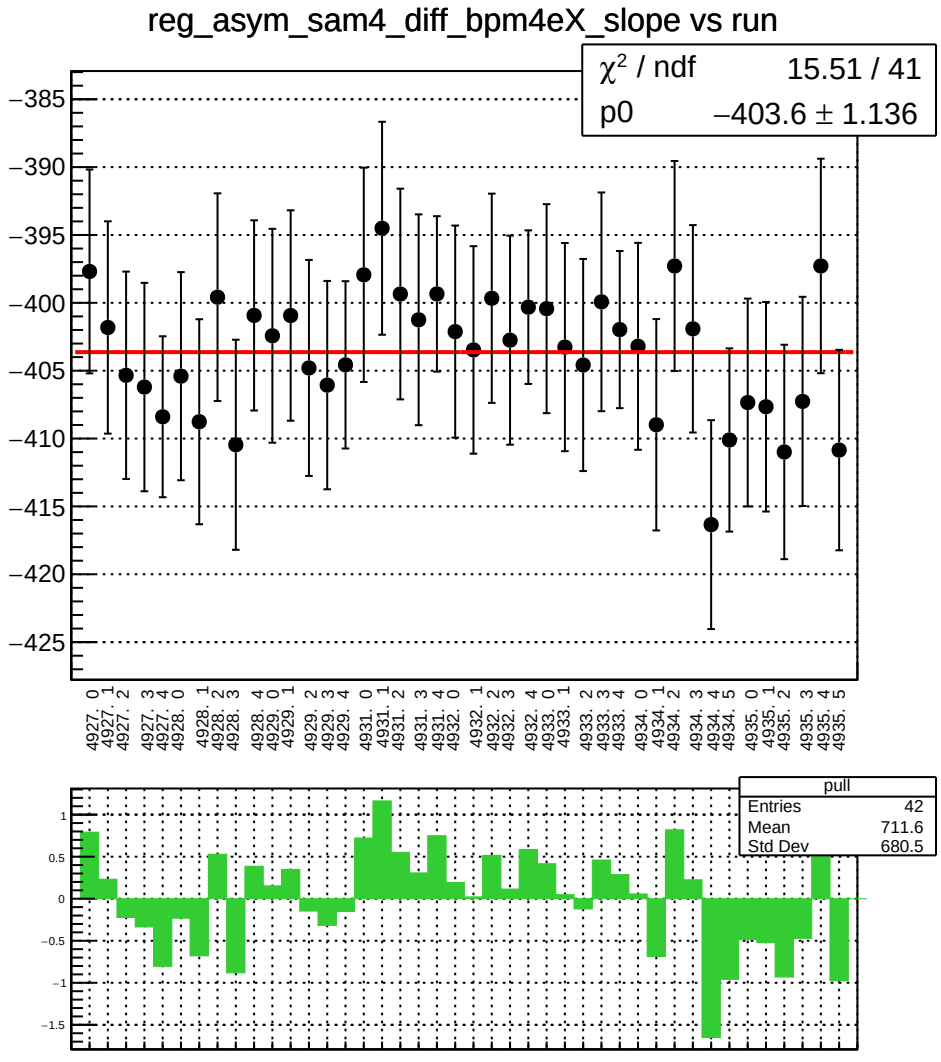

pull1D
Entries 42
Mean −0.003164
Std Dev 0.6825

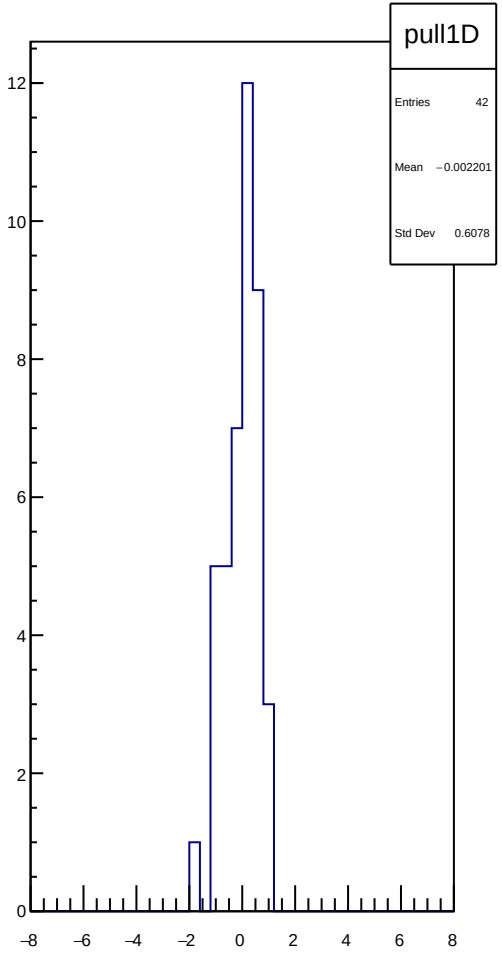

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 40.89 / 41
p0 215.9 ± 5.375
300
250
200
150
100
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 187.9
Std Dev 164.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

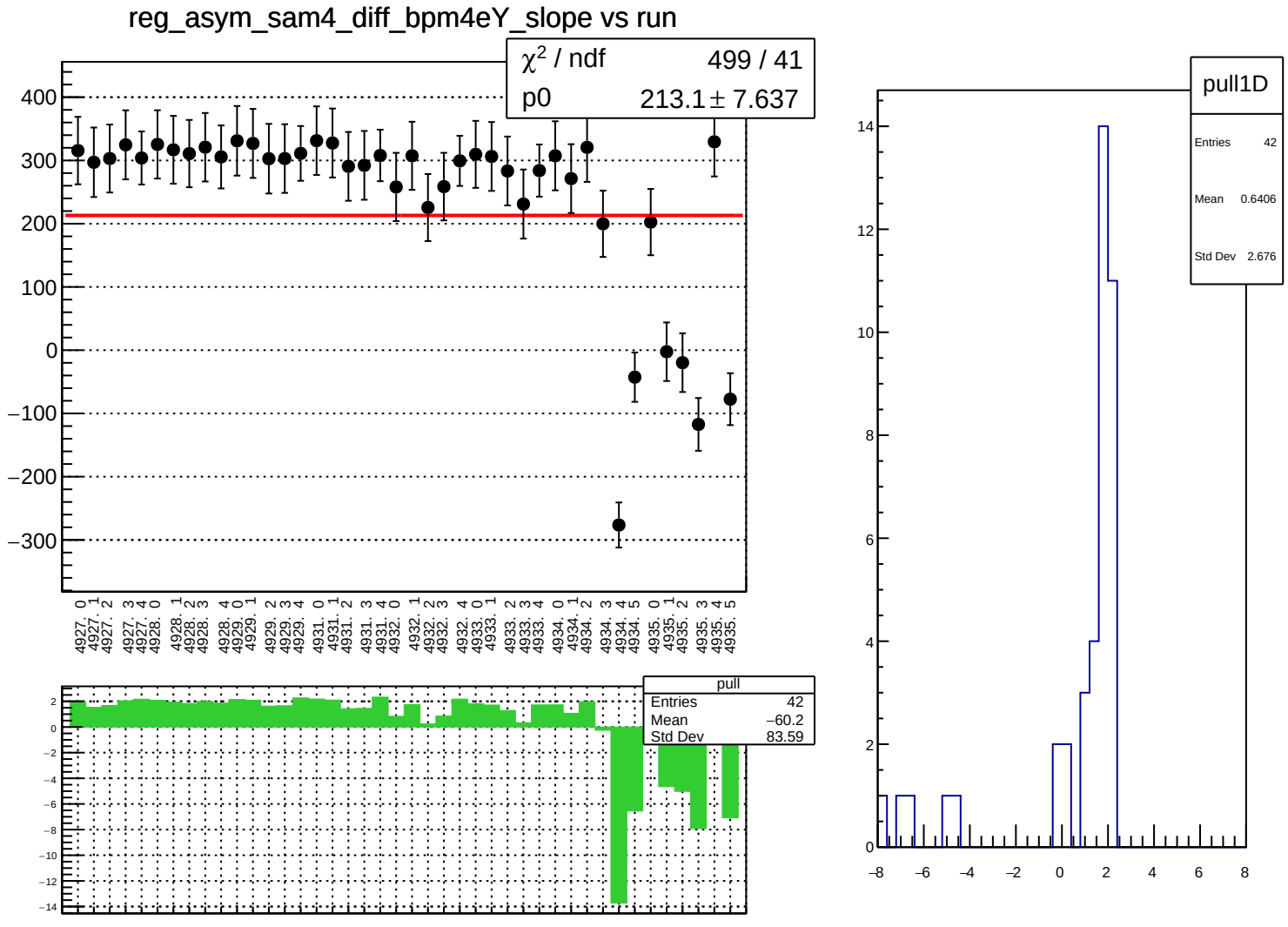

pull1D
Entries 42
Mean −0.03295
Std Dev 0.9862
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

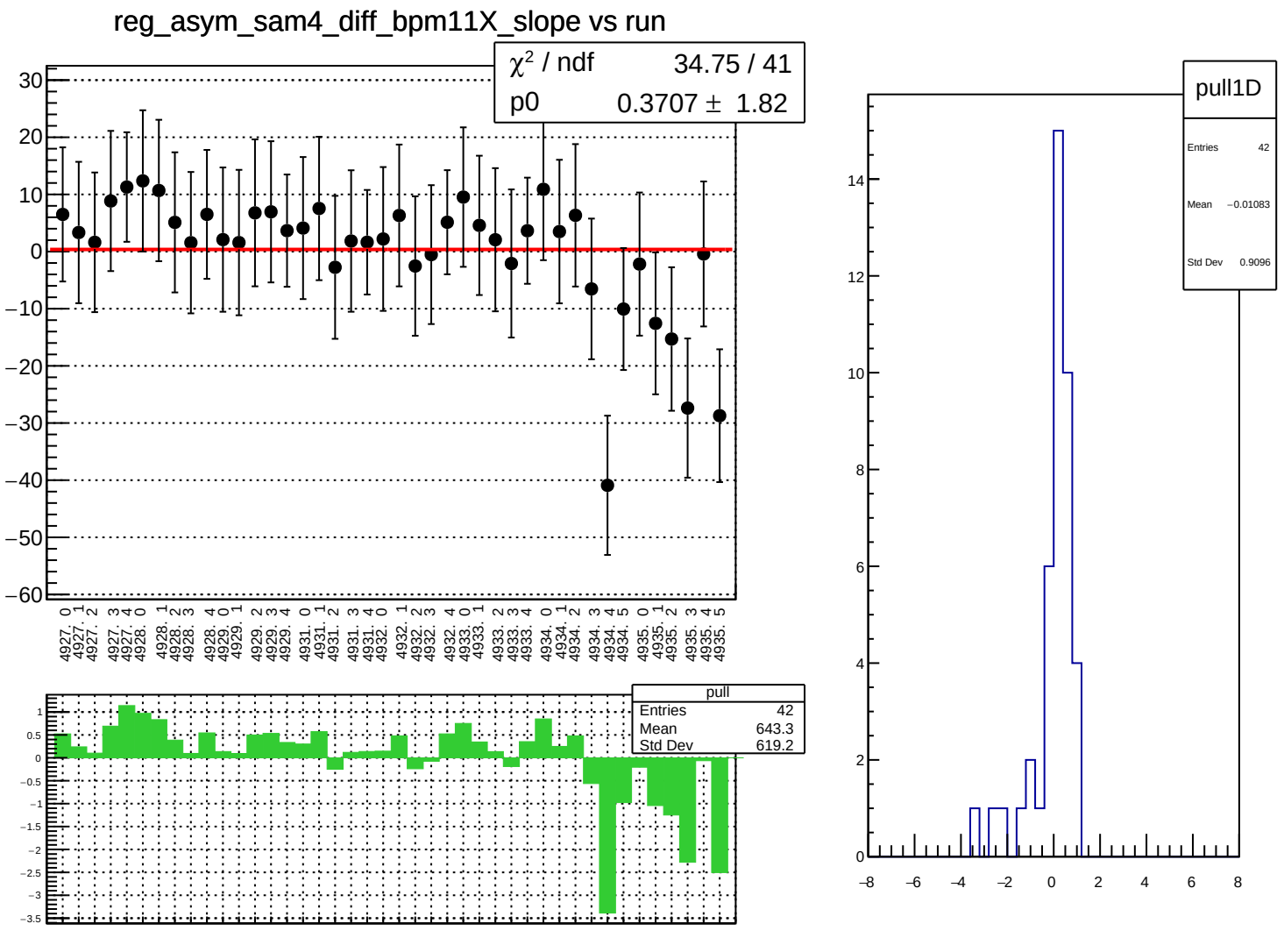

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 427.8 / 41
p0 2.974 ± 6.745
pull
Entries 42
Mean −82.67
Std Dev 106

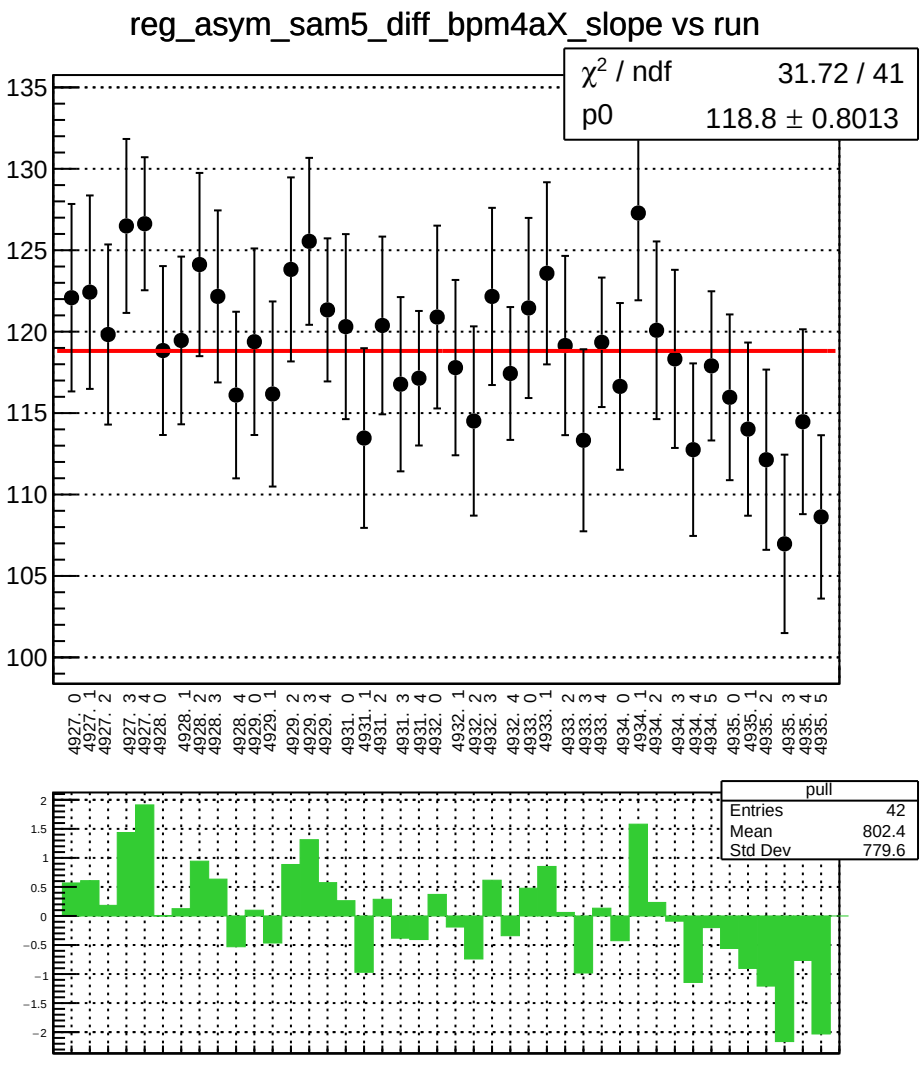

pull1D
Entries 42
Mean −0.5334
Std Dev 2.522

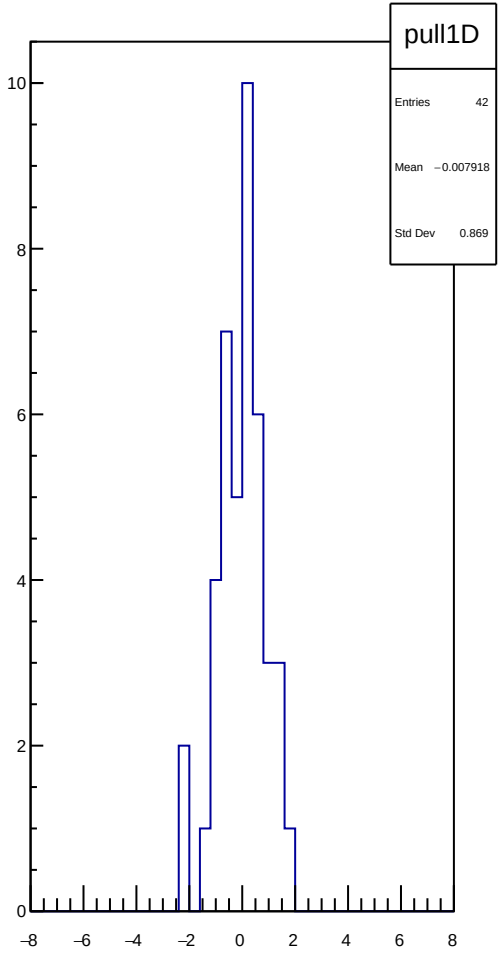

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 15.51 / 41
p0 −403.6 ± 1.136
pull
Entries 42
Mean 711.6
Std Dev 680.5

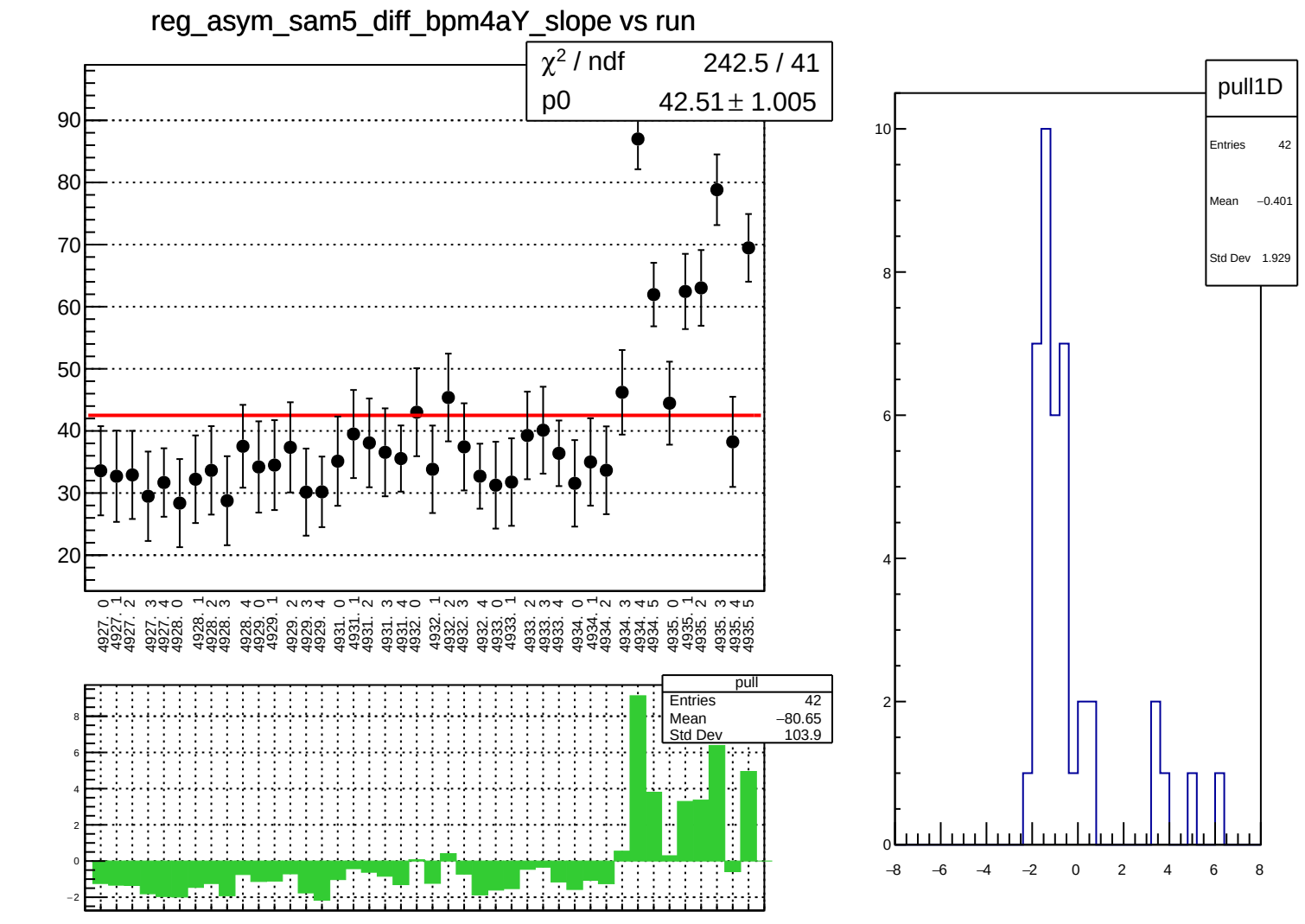

pull1D
Entries 42
Mean −0.002201
Std Dev 0.6078

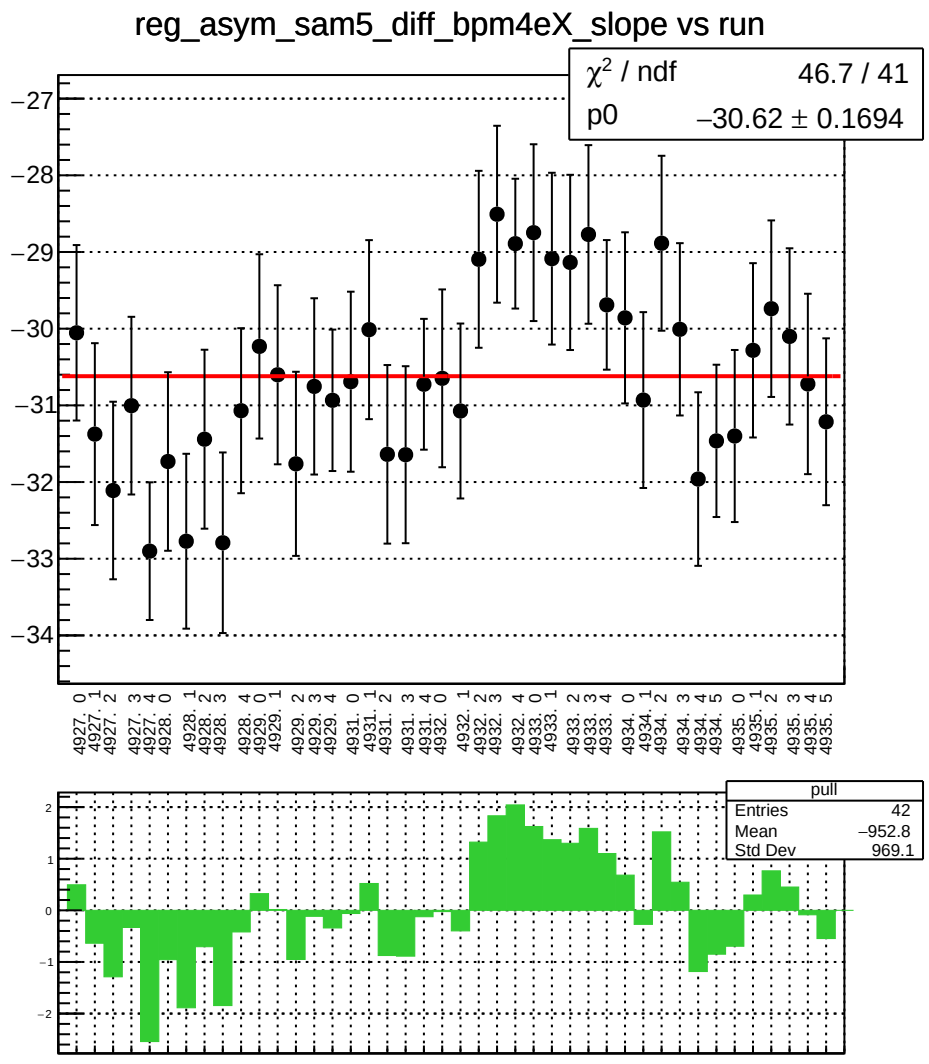

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 499 / 41
p0 213.1 ± 7.637
pull
Entries 42
Mean −60.2
Std Dev 83.59
pull1D
Entries 42
Mean 0.6406
Std Dev 2.676

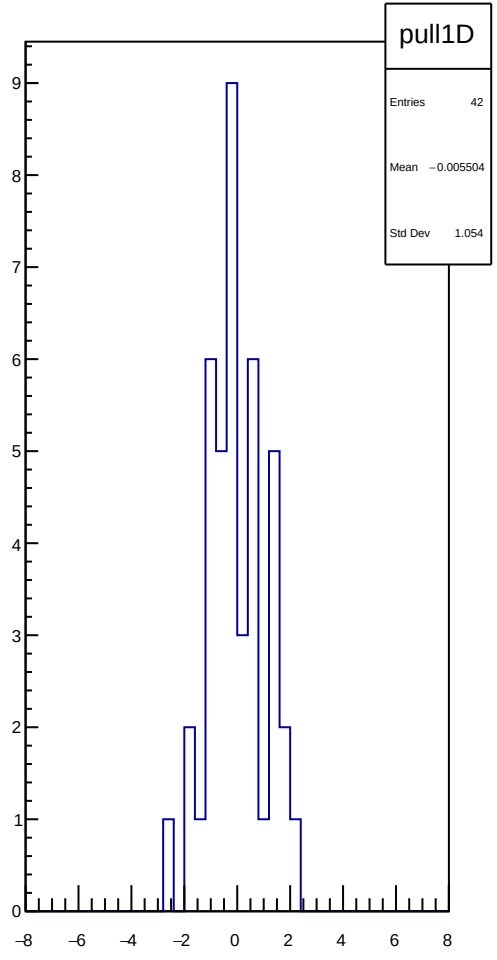

reg_asym_sam4_diff_bpm11X_slope vs run
χ² / ndf 34.75 / 41
p0 0.3707 ± 1.82
pull
Entries 42
Mean 643.3
Std Dev 619.2
pull1D
Entries 42
Mean −0.01083
Std Dev 0.9096

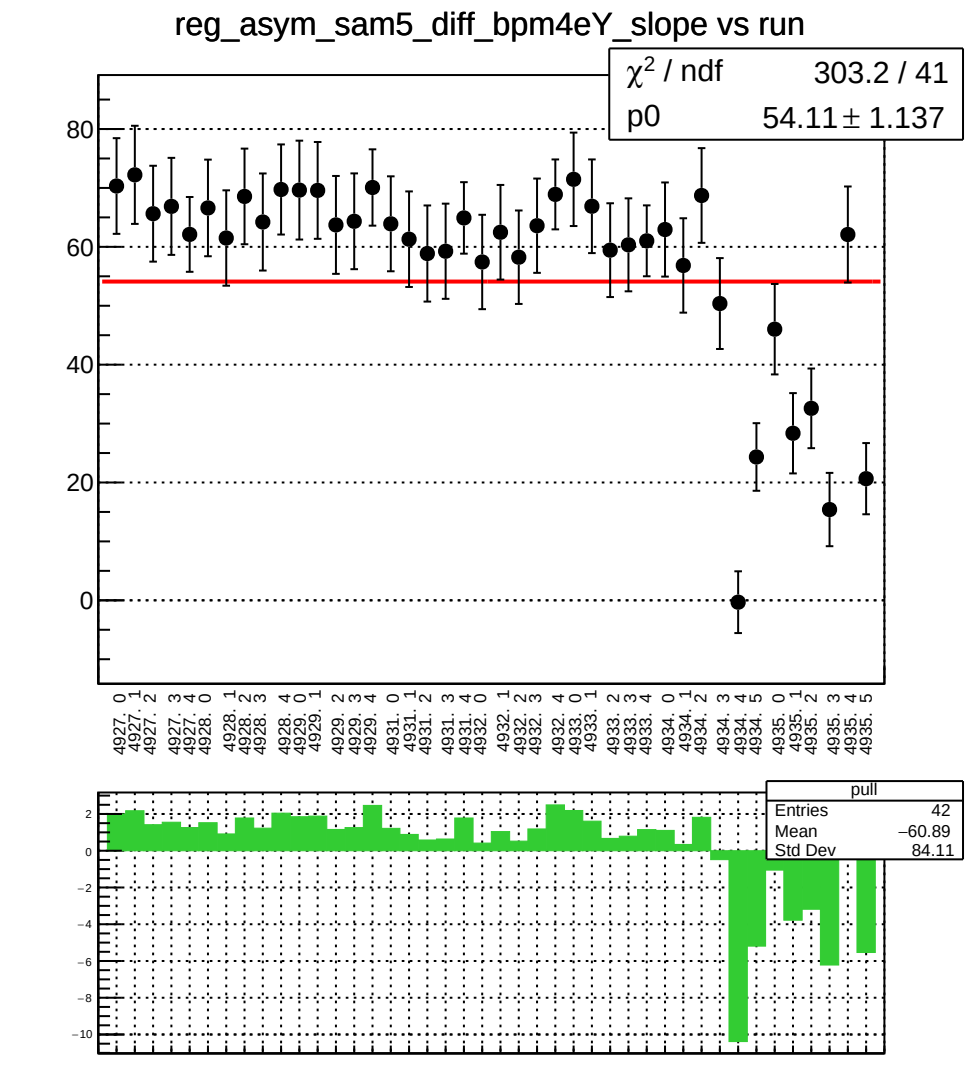

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 31.72 / 41
p0 118.8 ± 0.8013
pull
Entries 42
Mean 802.4
Std Dev 779.6

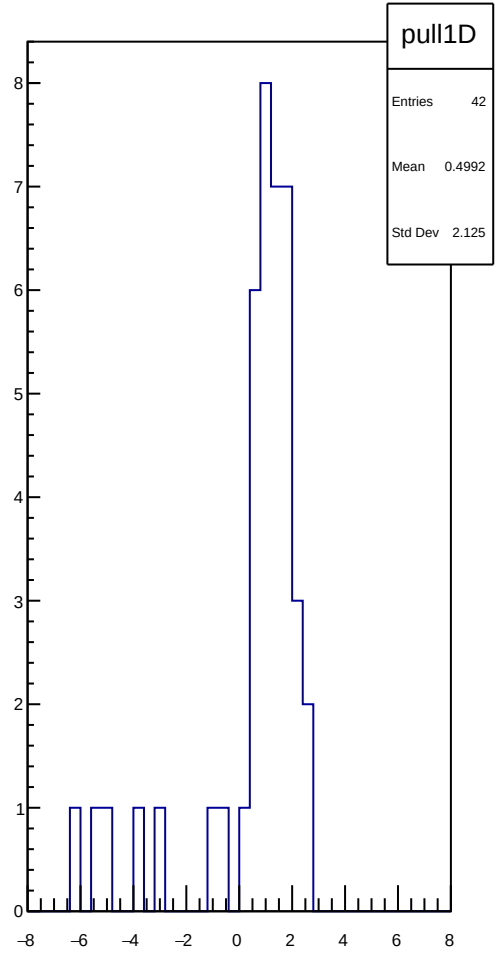

pull1D
Entries 42
Mean −0.007918
Std Dev 0.869

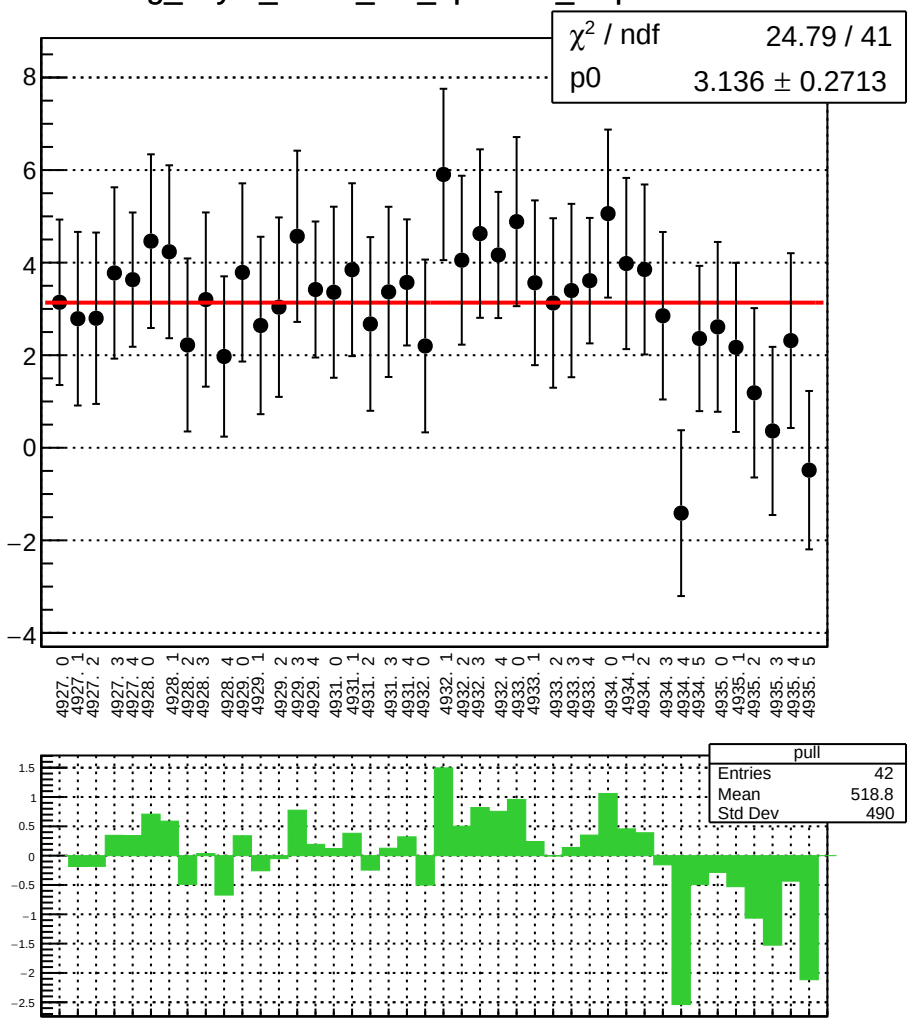

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 242.5 / 41
p0 42.51 ± 1.005
pull
Entries 42
Mean −80.65
Std Dev 103.9
pull1D
Entries 42
Mean −0.401
Std Dev 1.929

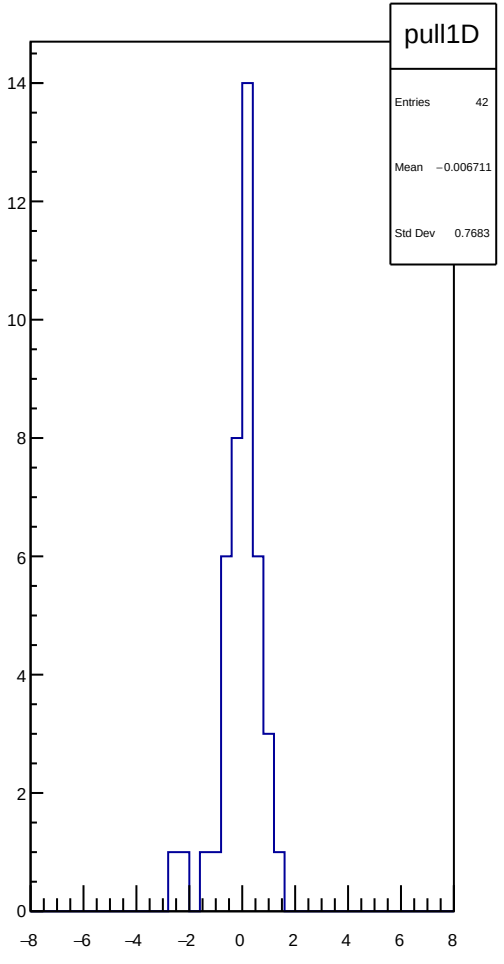

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 46.7 / 41
p0 −30.62 ± 0.1694
pull
Entries 42
Mean −952.8
Std Dev 969.1

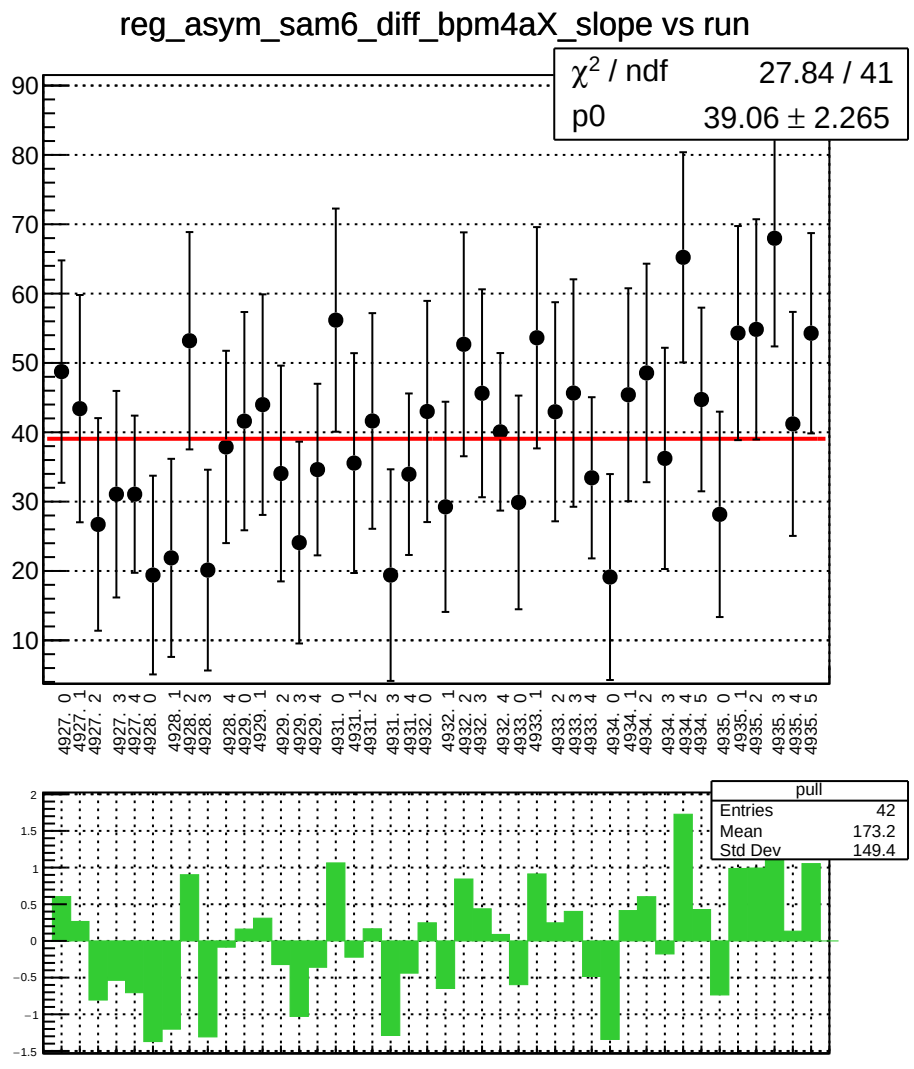

pull1D
Entries 42
Mean −0.005504
Std Dev 1.054

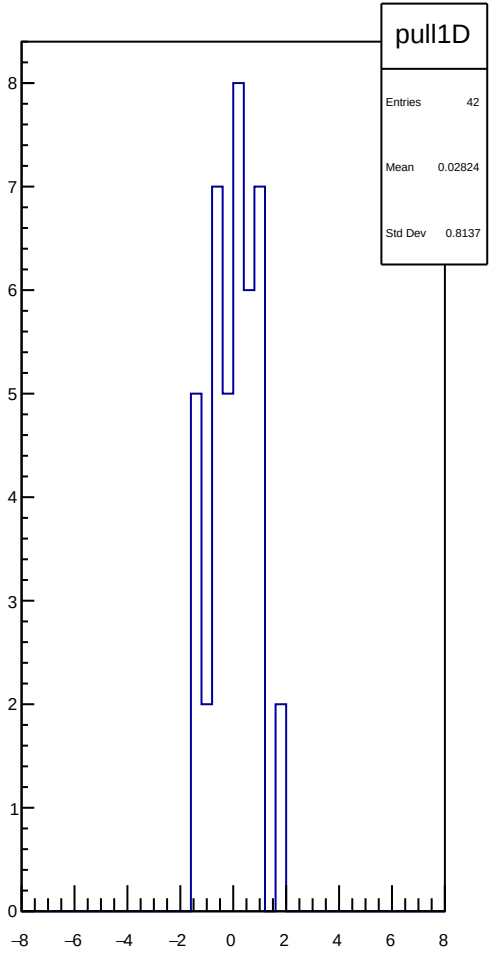

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 303.2 / 41
p0 54.11 ± 1.137
pull
Entries 42
Mean −60.89
Std Dev 84.11

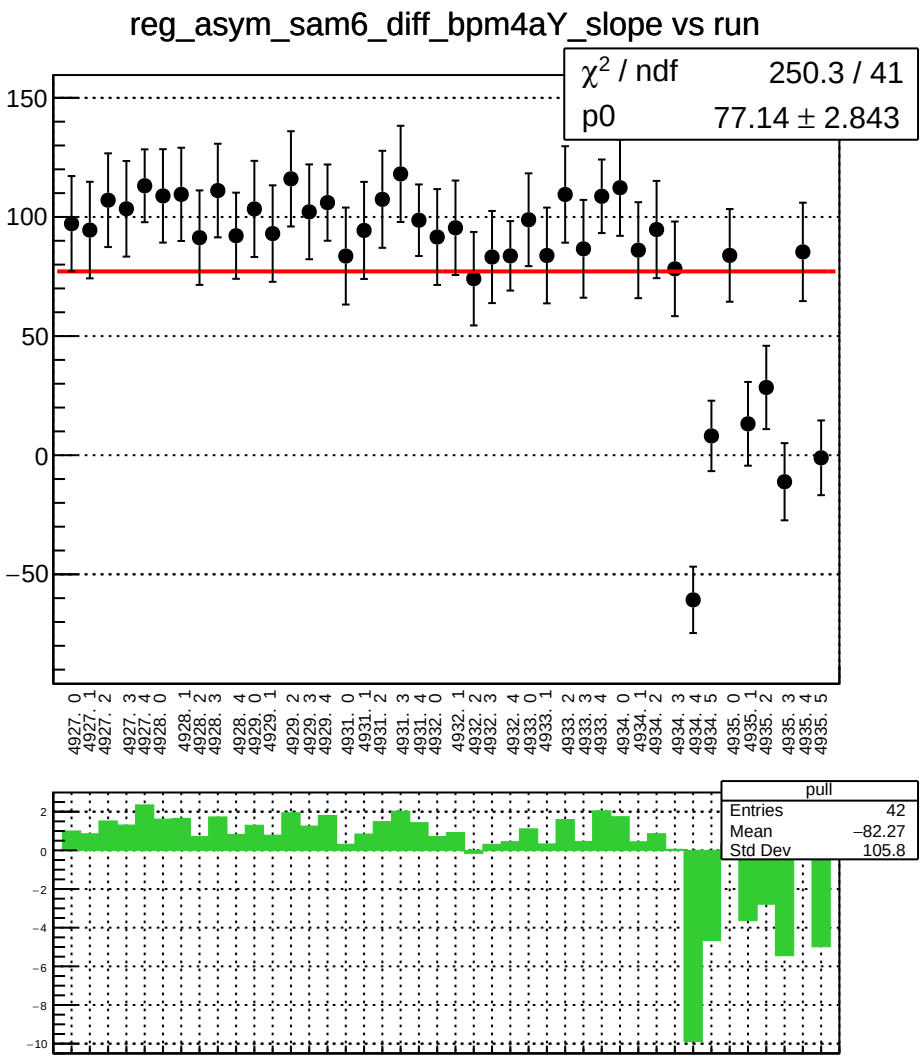

pull1D
Entries 42
Mean 0.4992
Std Dev 2.125

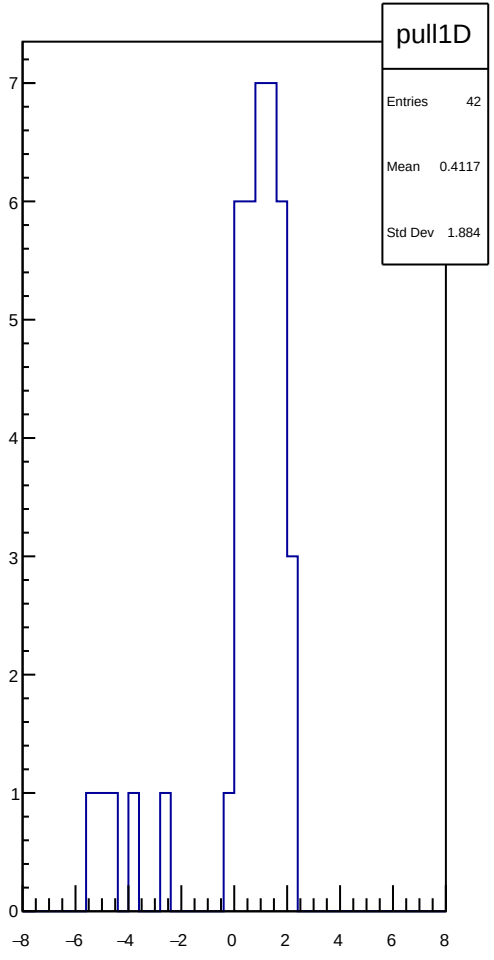

reg_asym_sam5_diff_bpm11X_slope vs run
χ² / ndf 24.79 / 41
p0 3.136 ± 0.2713
pull
Entries 42
Mean 518.8
Std Dev 490

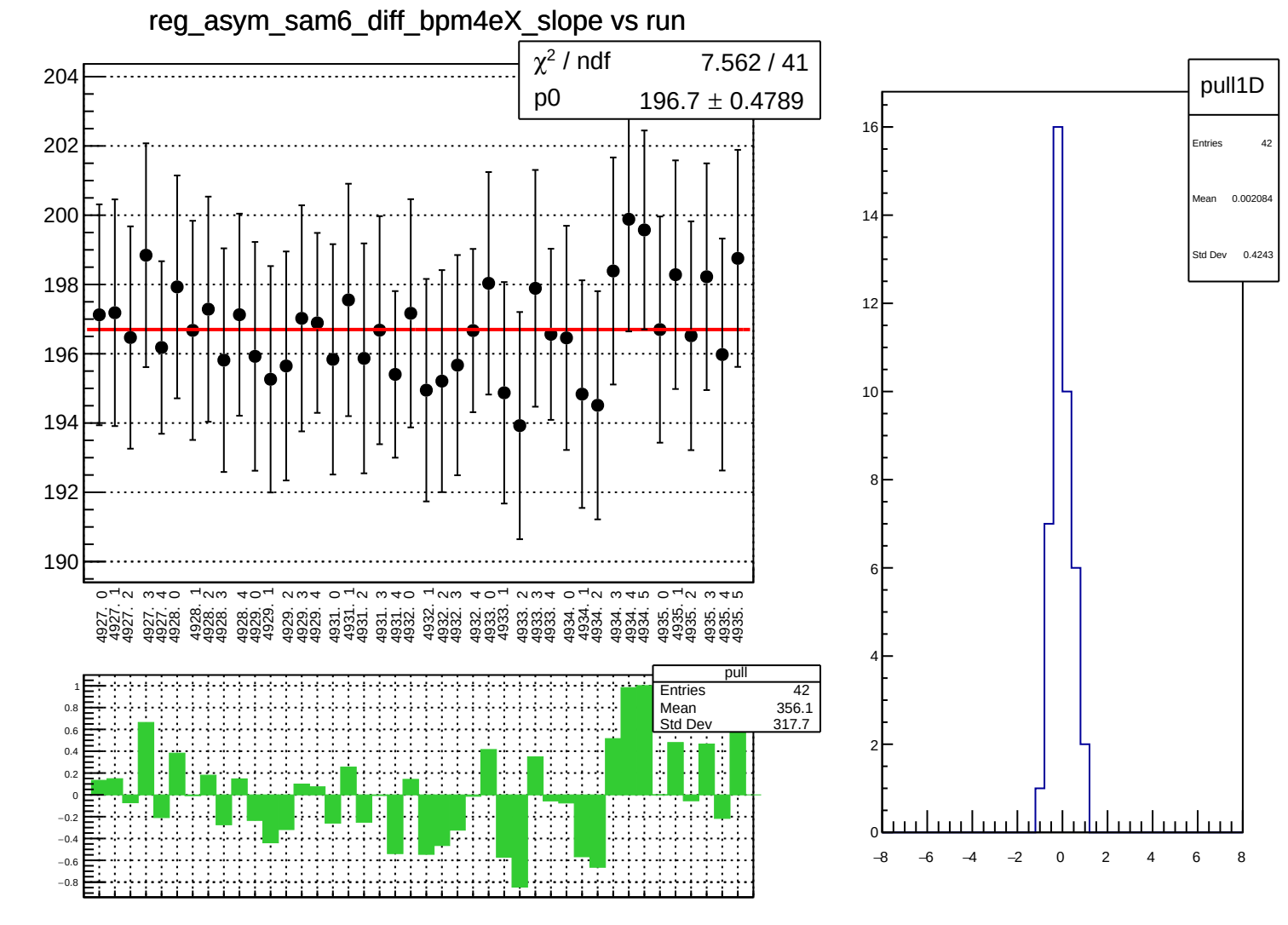

pull1D
Entries 42
Mean −0.006711
Std Dev 0.7683

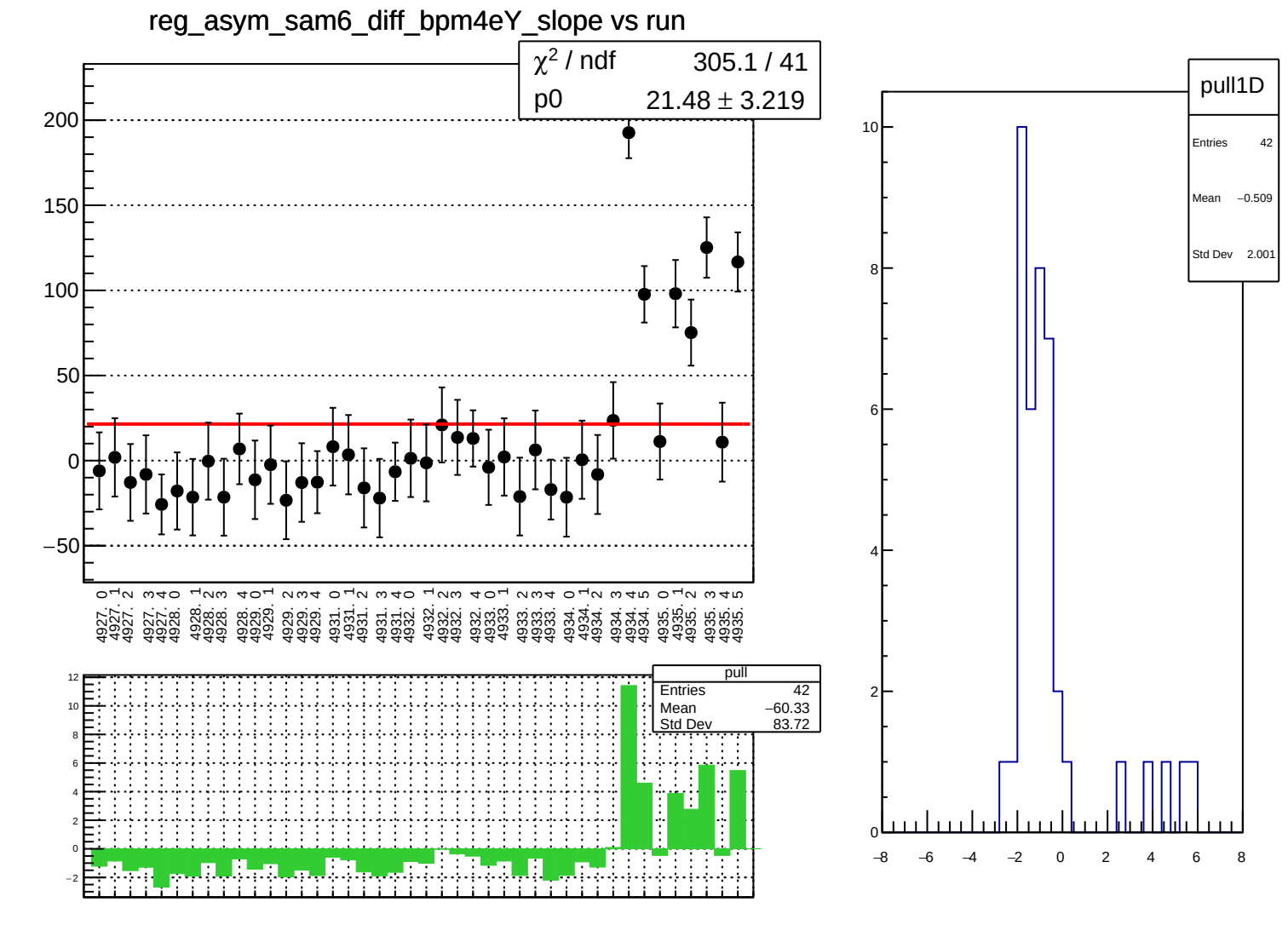

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 27.84 / 41
p0 39.06 ± 2.265
pull
Entries 42
Mean 173.2
Std Dev 149.4

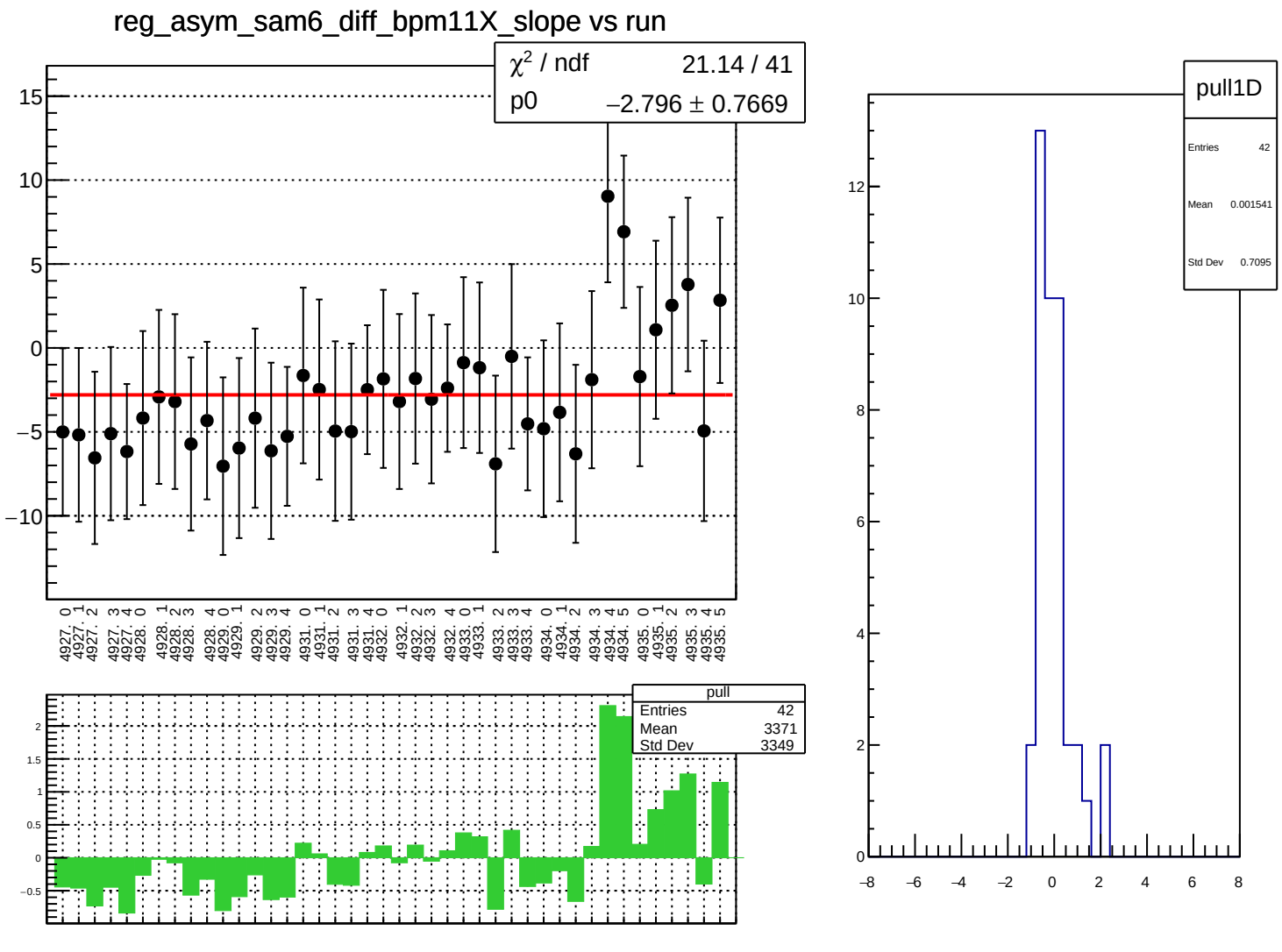

pull1D
Entries 42
Mean 0.02824
Std Dev 0.8137

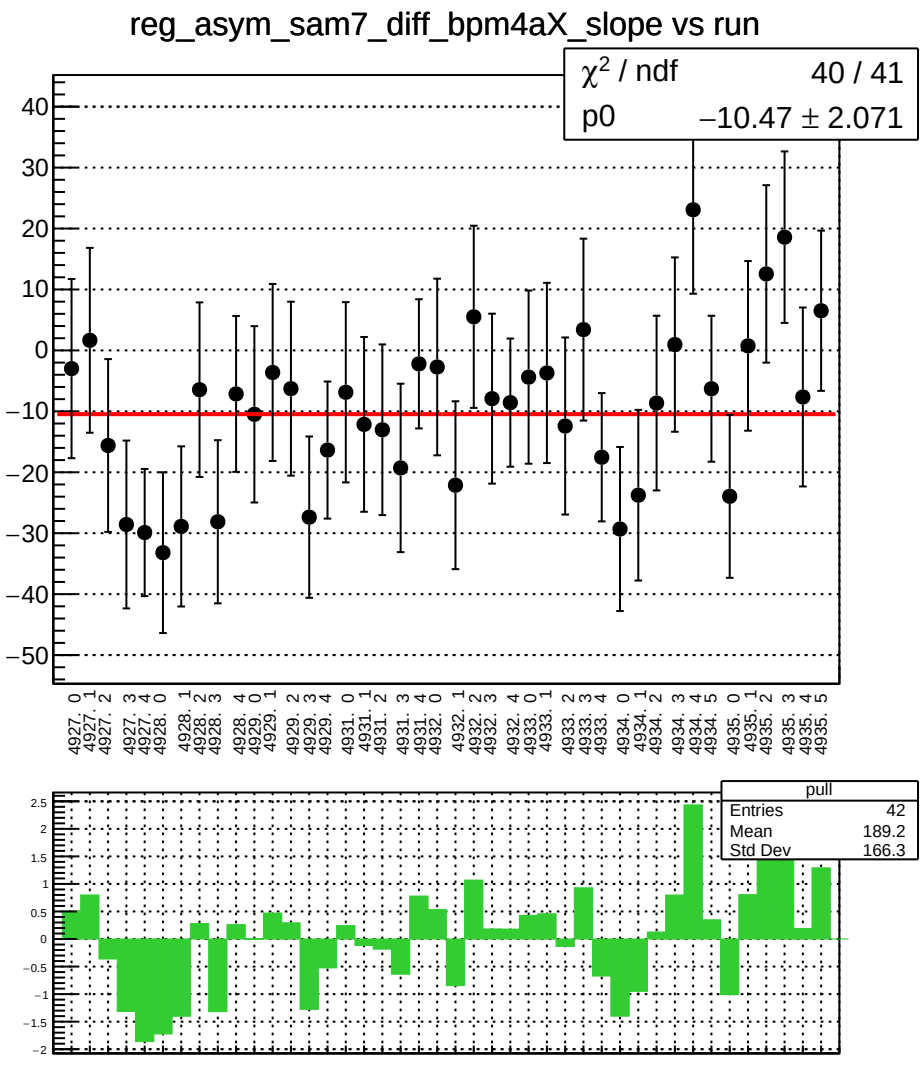

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 250.3 / 41
p0 77.14 ± 2.843
150
100
50
0
−50
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −82.27
Std Dev 105.8
2
0
−2
−4
−6
−8
−10

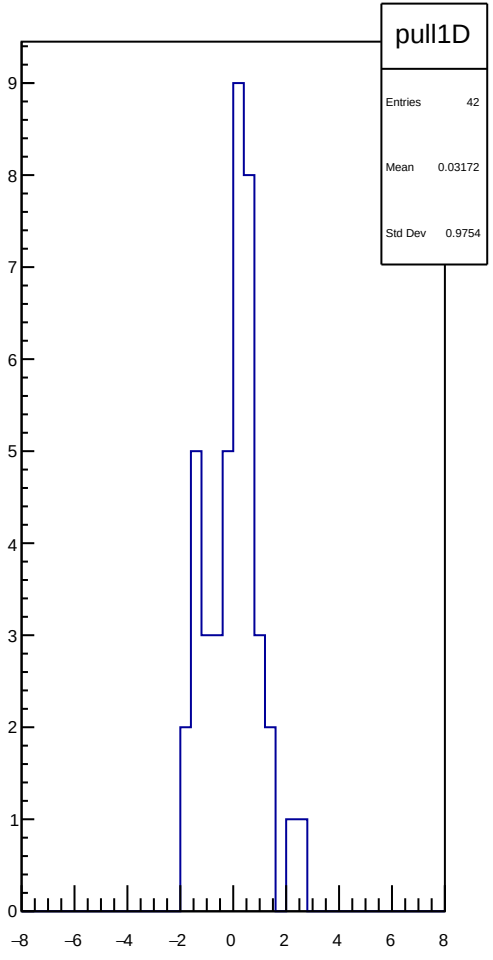

pull1D
Entries 42
Mean 0.4117
Std Dev 1.884
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

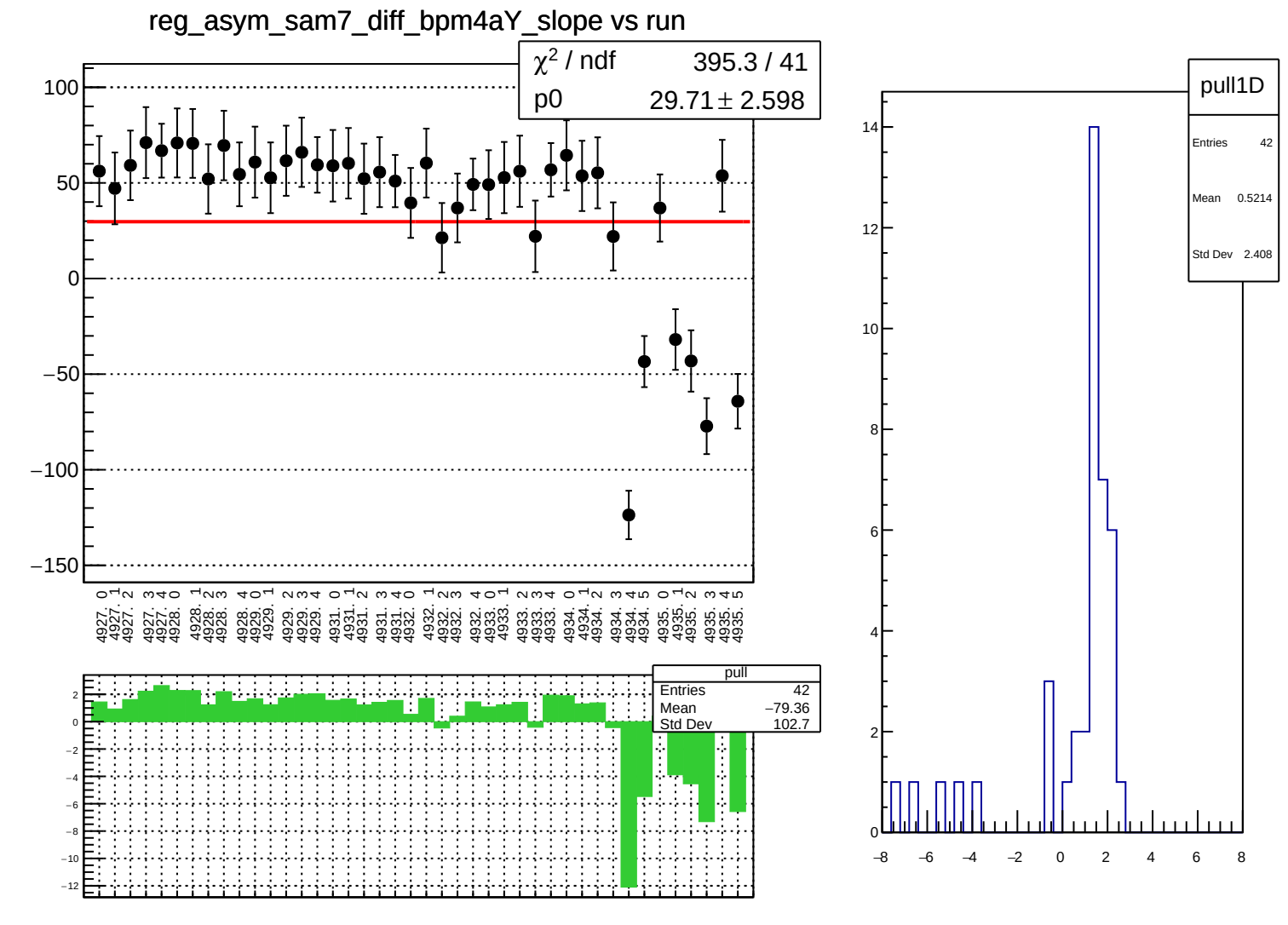

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 7.562 / 41
p0 196.7 ± 0.4789
204
202
200
198
196
194
192
190
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 356.1
Std Dev 317.7
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 42
Mean 0.002084
Std Dev 0.4243
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

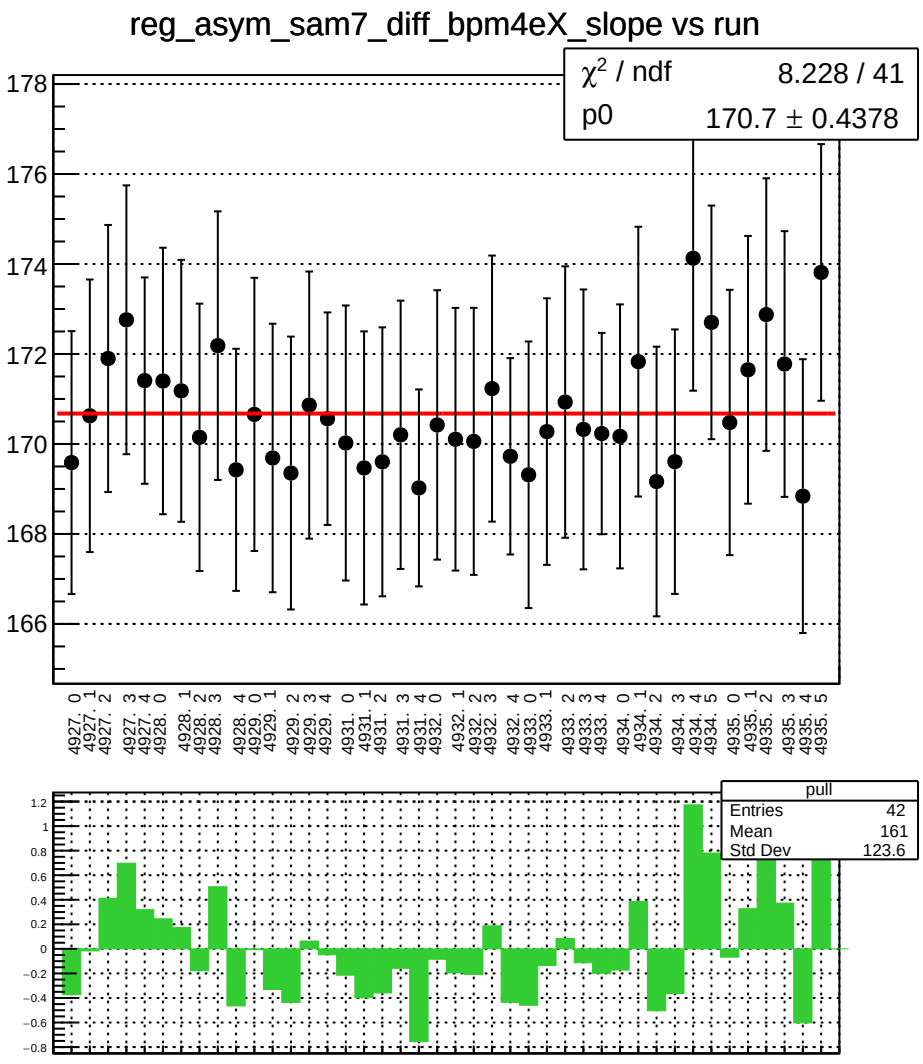

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 305.1 / 41
p0 21.48 ± 3.219
200
150
100
50
0
−50
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −60.33
Std Dev 83.72
12
10
8
6
4
2
0
−2
pull1D
Entries 42
Mean −0.509
Std Dev 2.001
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

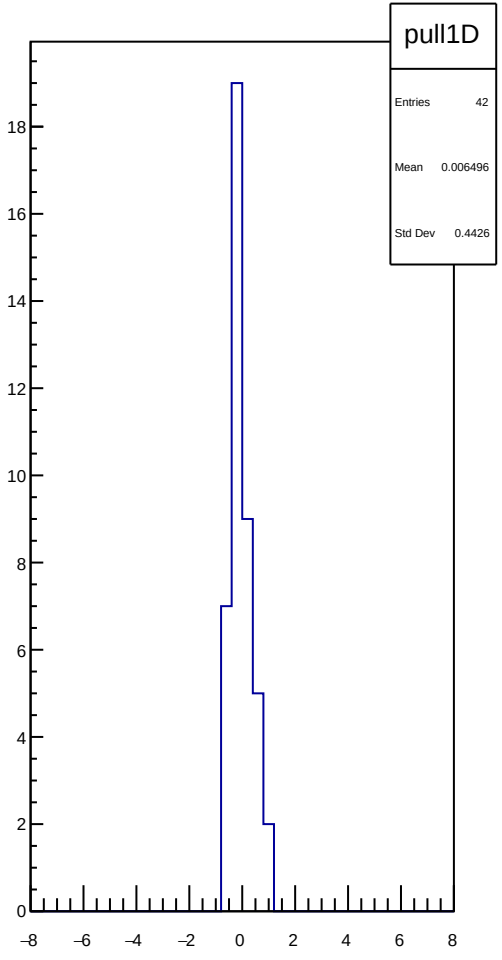

reg_asym_sam6_diff_bpm11X_slope vs run
χ² / ndf 21.14 / 41
p0 −2.796 ± 0.7669
15
10
5
0
−5
−10
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935.
pull
Entries 42
Mean 3371
Std Dev 3349
2
1.5
1
0.5
0
−0.5
pull1D
Entries 42
Mean 0.001541
Std Dev 0.7095
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

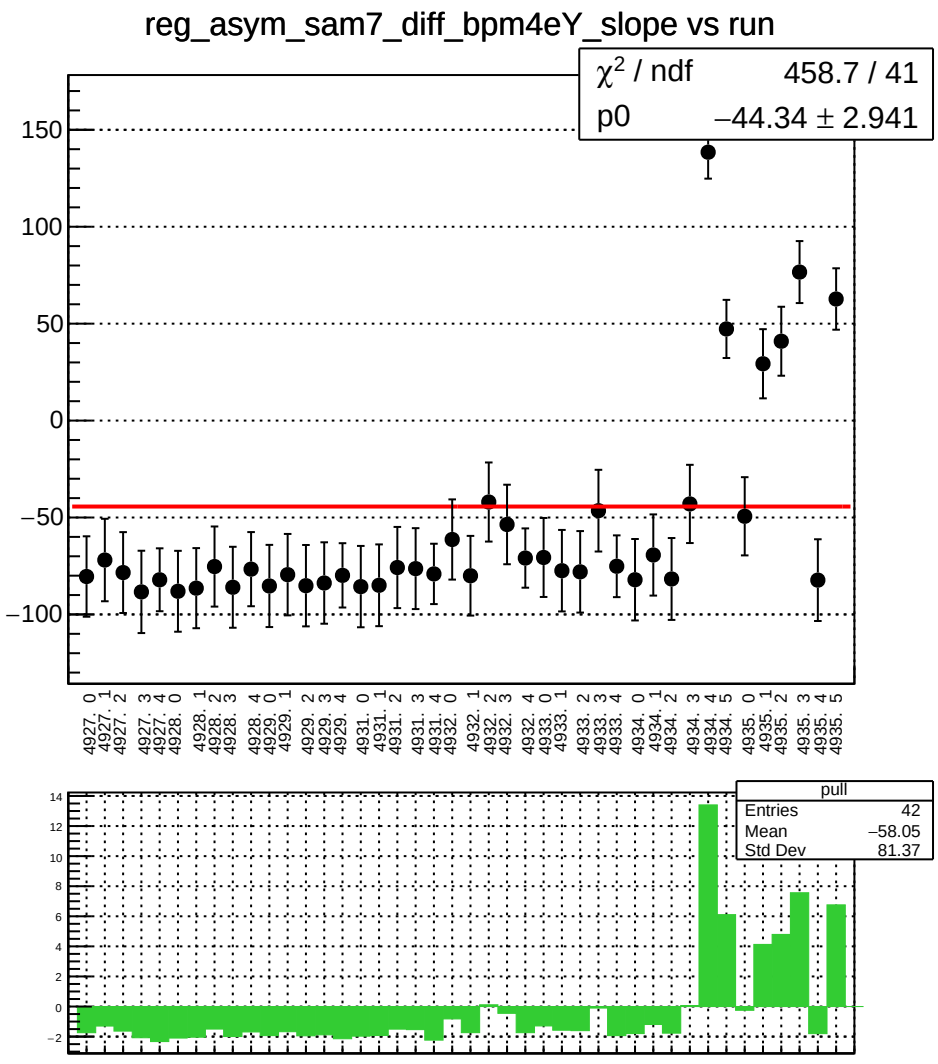

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 40 / 41
p0 −10.47 ± 2.071
pull
Entries 42
Mean 189.2
Std Dev 166.3

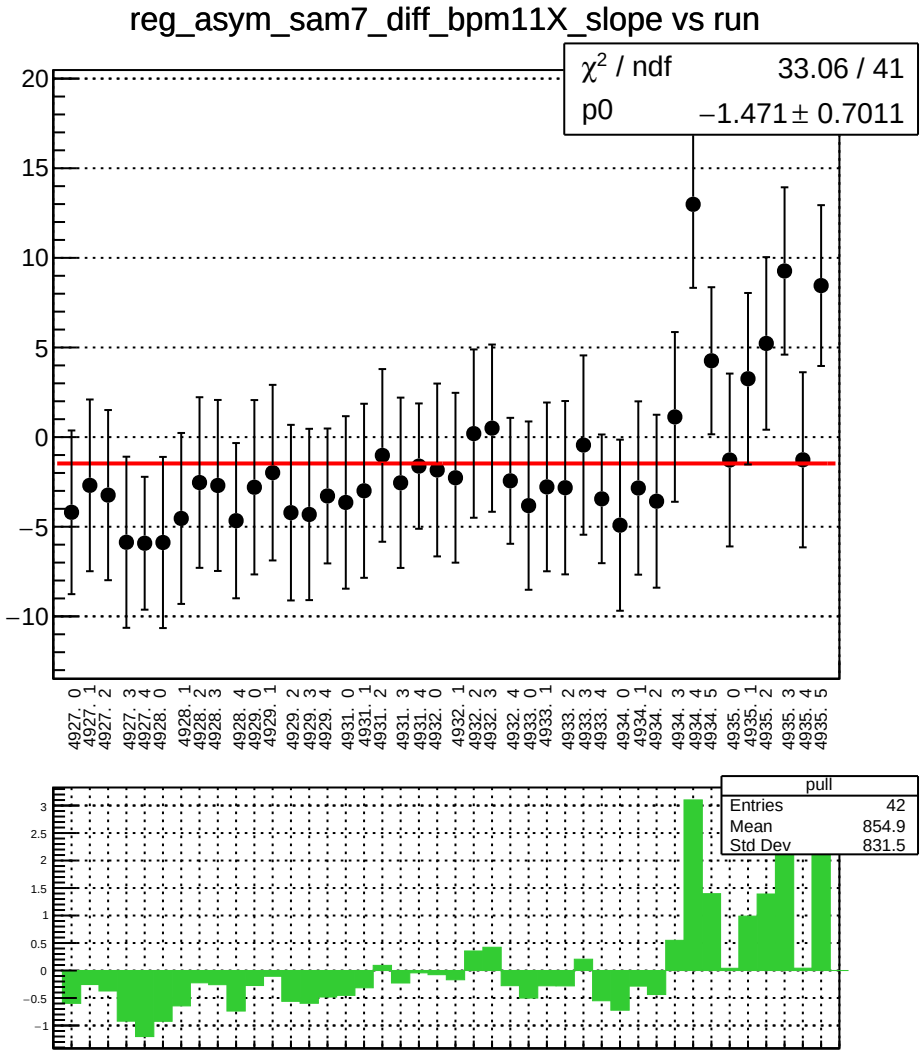

pull1D
Entries 42
Mean 0.03172
Std Dev 0.9754

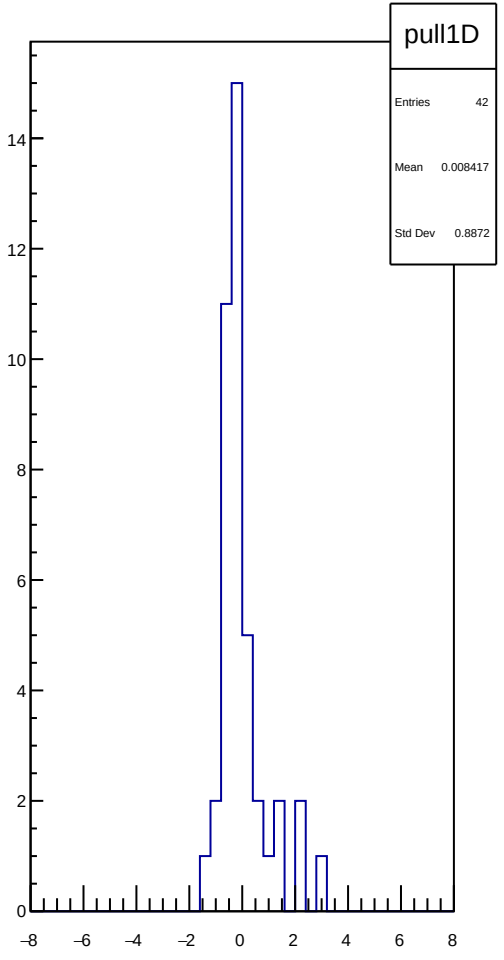

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 395.3 / 41
p0 29.71 ± 2.598
100
50
0
−50
−100
−150
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −79.36
Std Dev 102.7
2
0
−2
−4
−6
−8
−10
−12
pull1D
Entries 42
Mean 0.5214
Std Dev 2.408
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

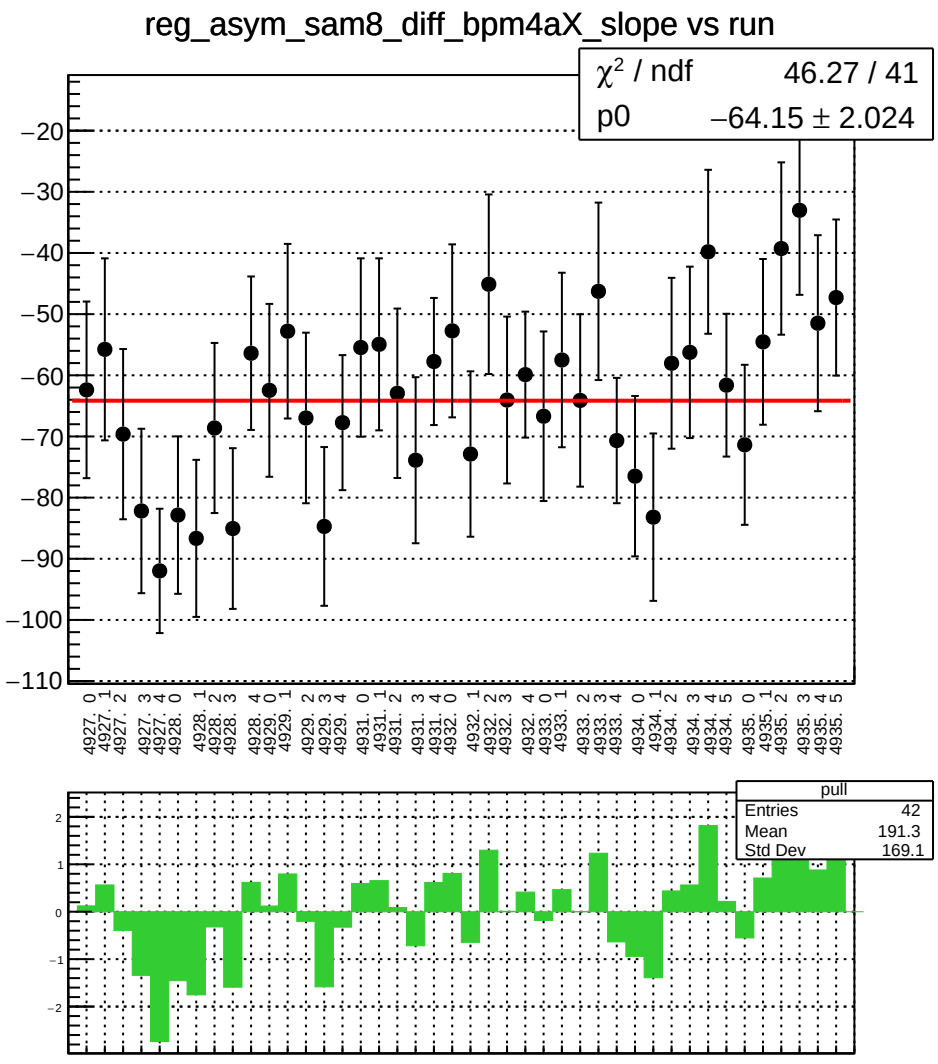

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 8.228 / 41
p0 170.7 ± 0.4378
178
176
174
172
170
168
166
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 161
Std Dev 123.6
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

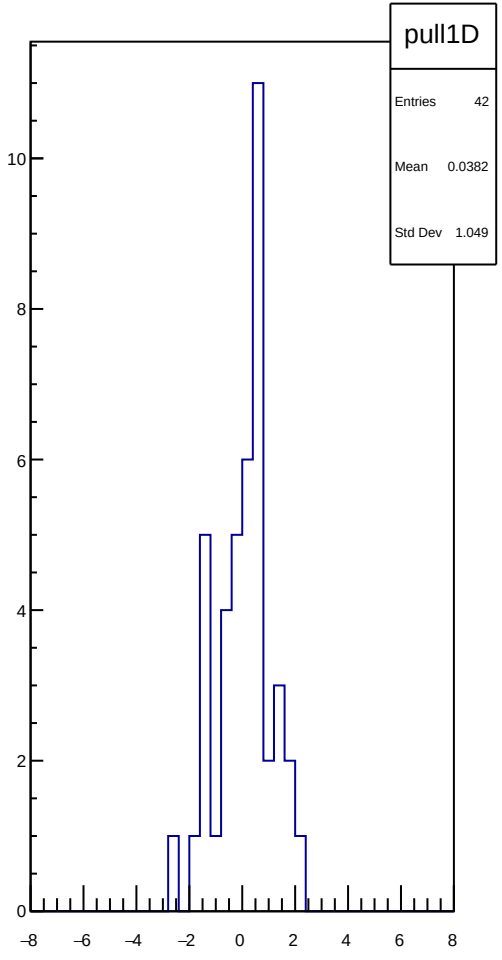

pull1D
Entries 42
Mean 0.006496
Std Dev 0.4426
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

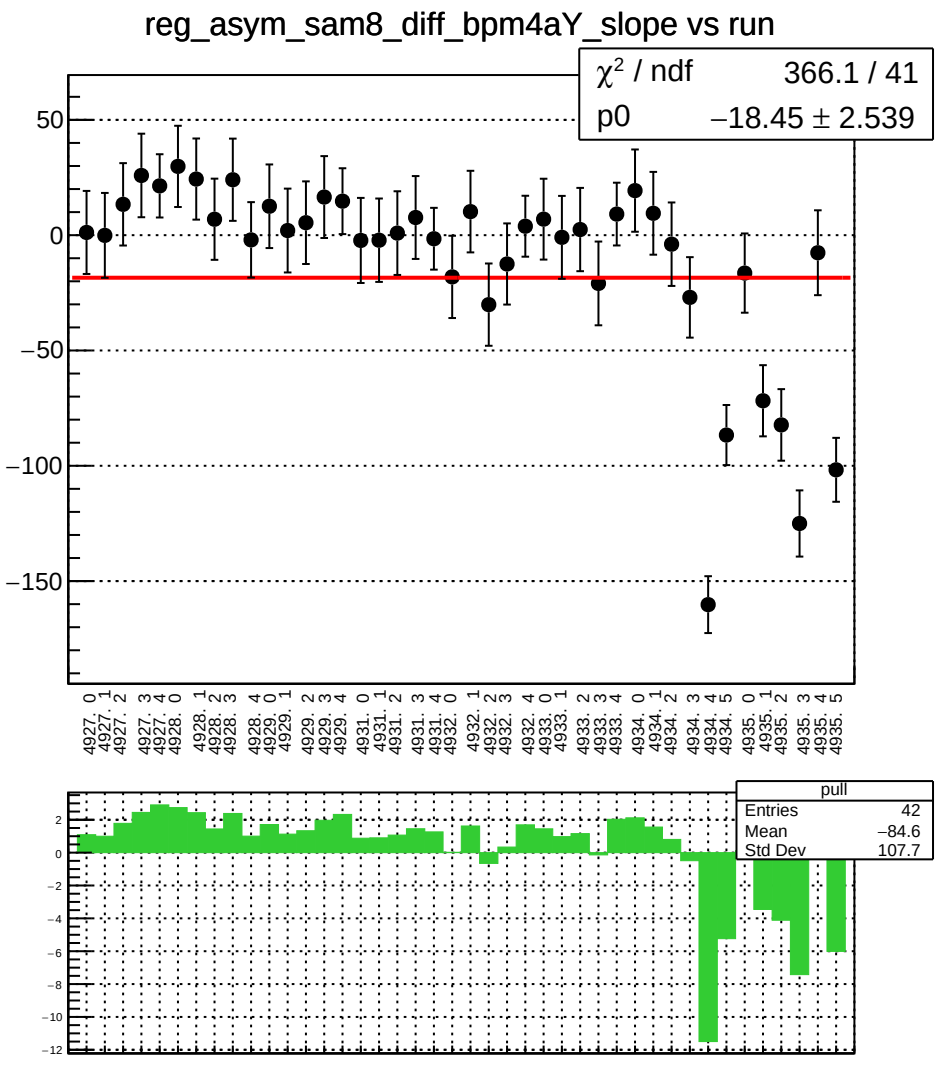

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 458.7 / 41
p0 −44.34 ± 2.941
150
100
50
0
−50
−100
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −58.05
Std Dev 81.37
14
12
10
8
6
4
2
0
−2
pull1D
Entries 42
Mean −0.6255
Std Dev 2.533
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

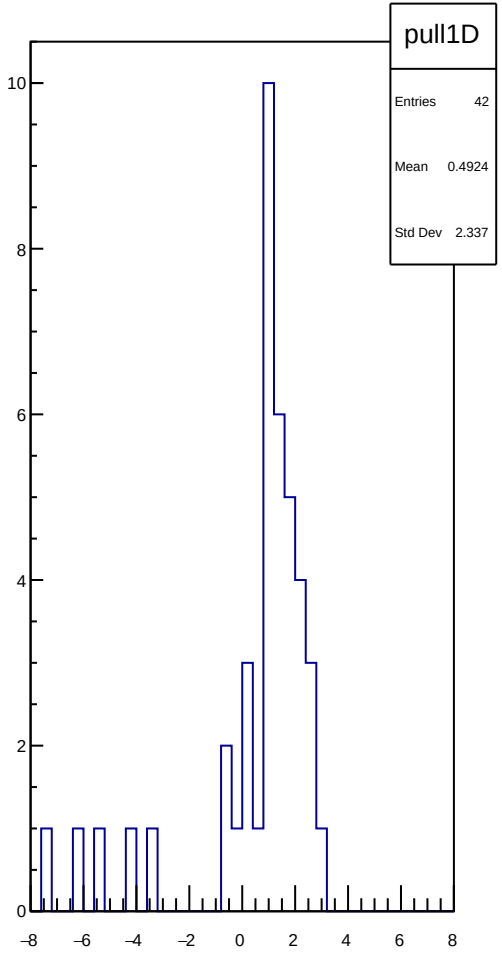

reg_asym_sam7_diff_bpm11X_slope vs run
χ² / ndf 33.06 / 41
p0 −1.471 ± 0.7011
pull
Entries 42
Mean 854.9
Std Dev 831.5

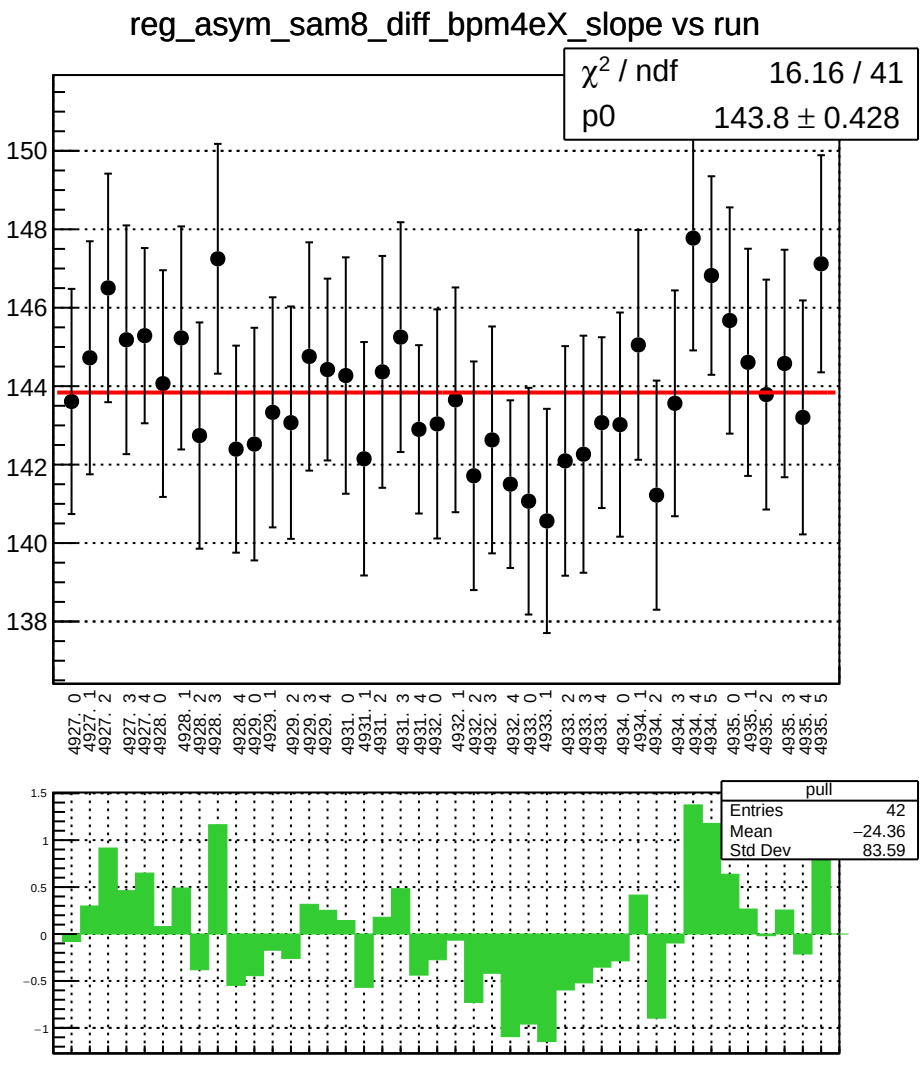

pull1D
Entries 42
Mean 0.008417
Std Dev 0.8872

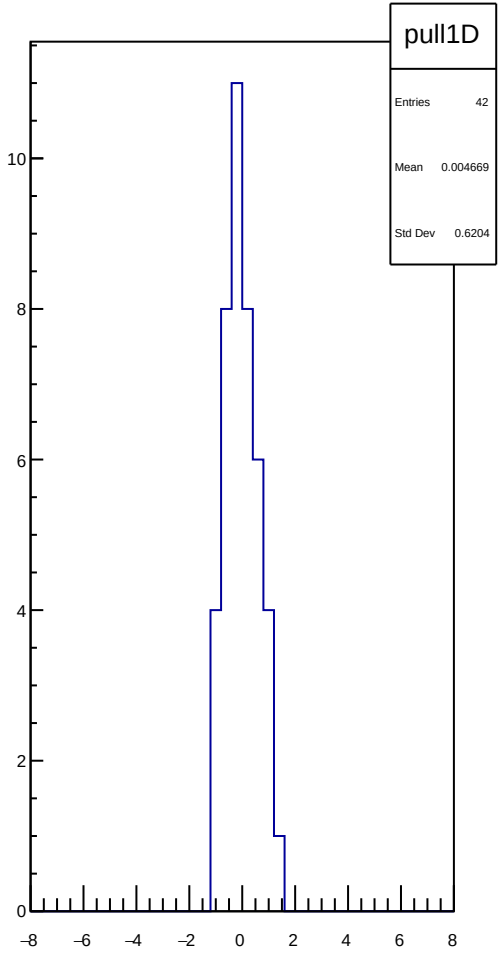

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 46.27 / 41
p0 −64.15 ± 2.024
pull
Entries 42
Mean 191.3
Std Dev 169.1

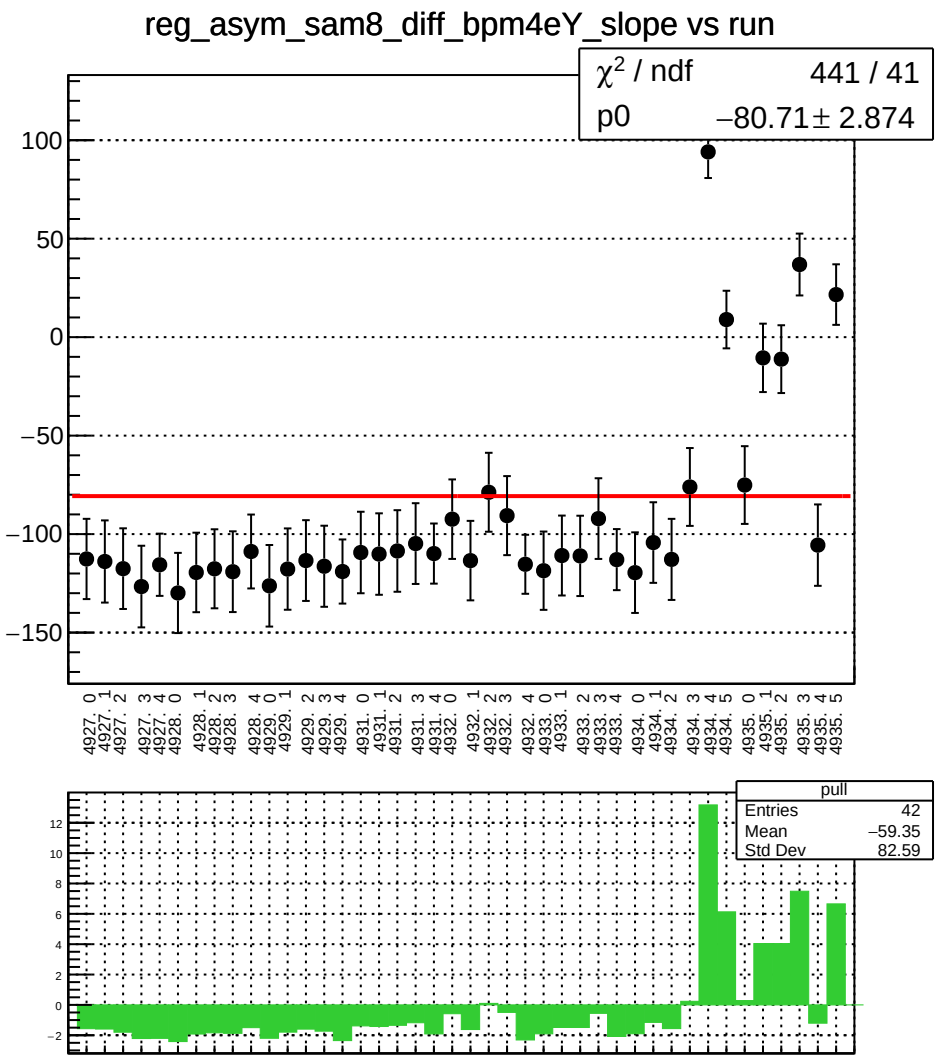

pull1D
Entries 42
Mean 0.0382
Std Dev 1.049

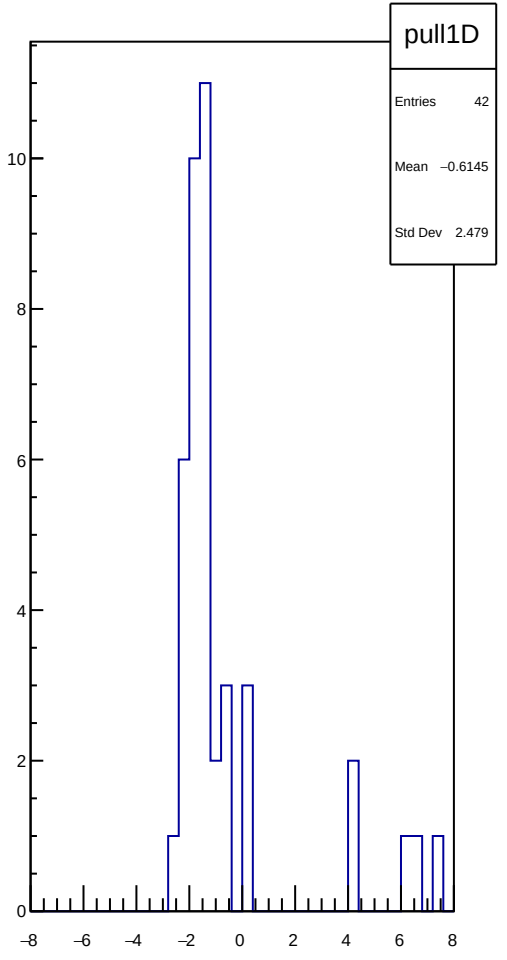

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 366.1 / 41
p0 −18.45 ± 2.539
50
0
−50
−100
−150
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −84.6
Std Dev 107.7
2
0
−2
−4
−6
−8
−10
−12

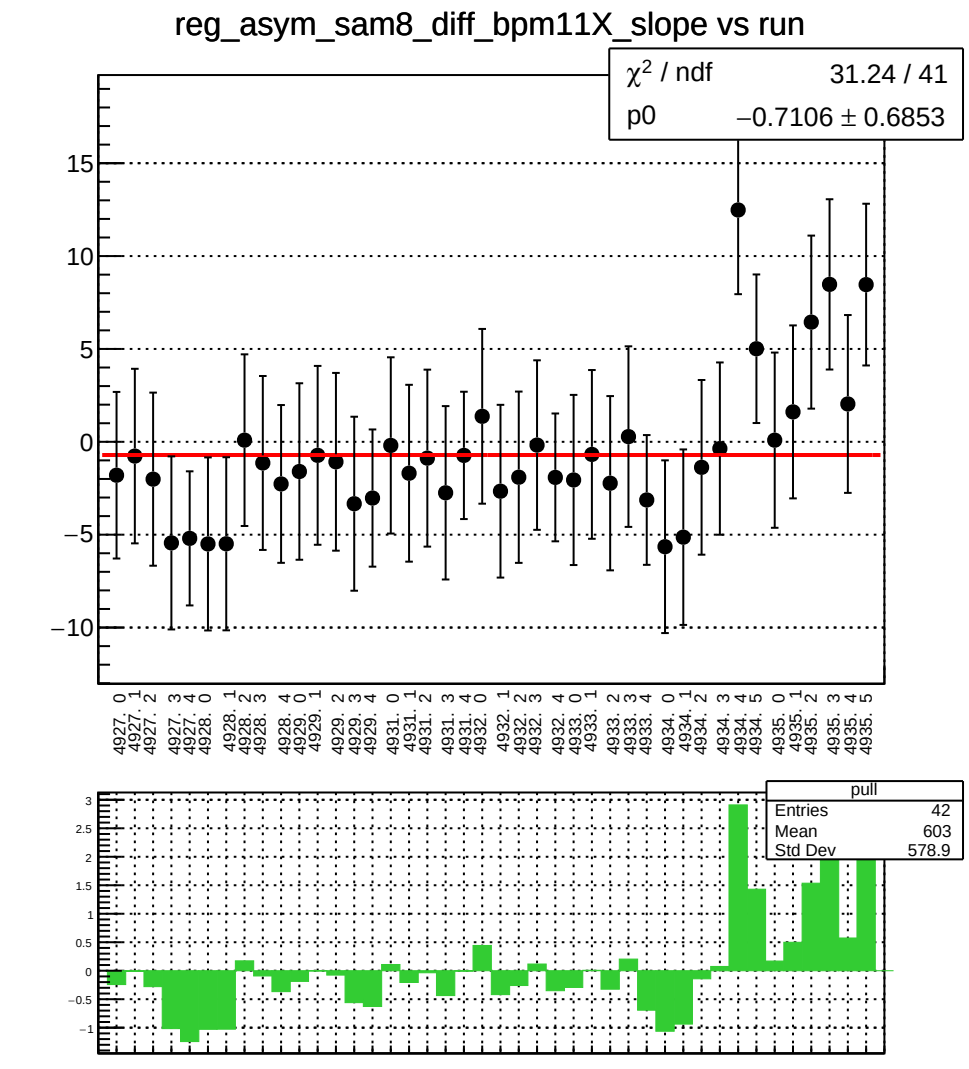

pull1D
Entries 42
Mean 0.4924
Std Dev 2.337
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

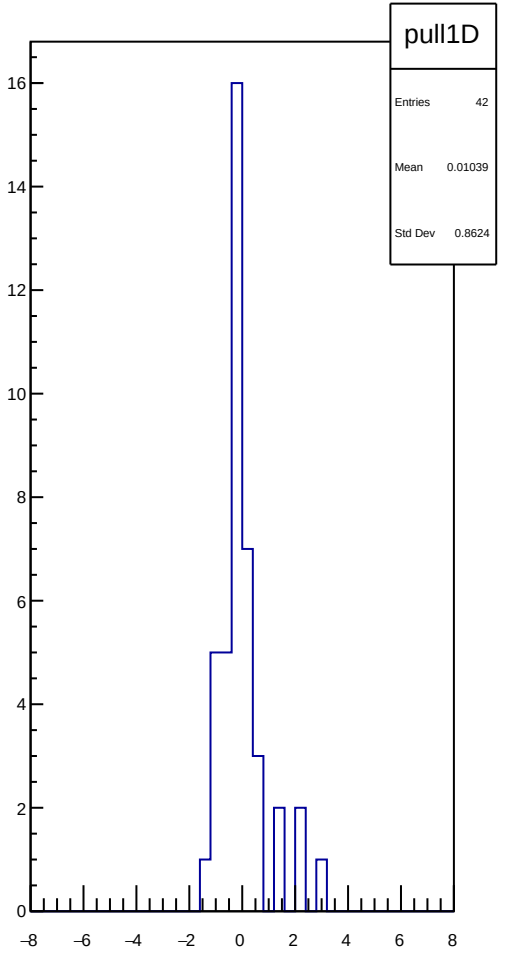

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 16.16 / 41
p0 143.8 ± 0.428
150
148
146
144
142
140
138
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −24.36
Std Dev 83.59
1.5
1
0.5
0
−0.5
−1

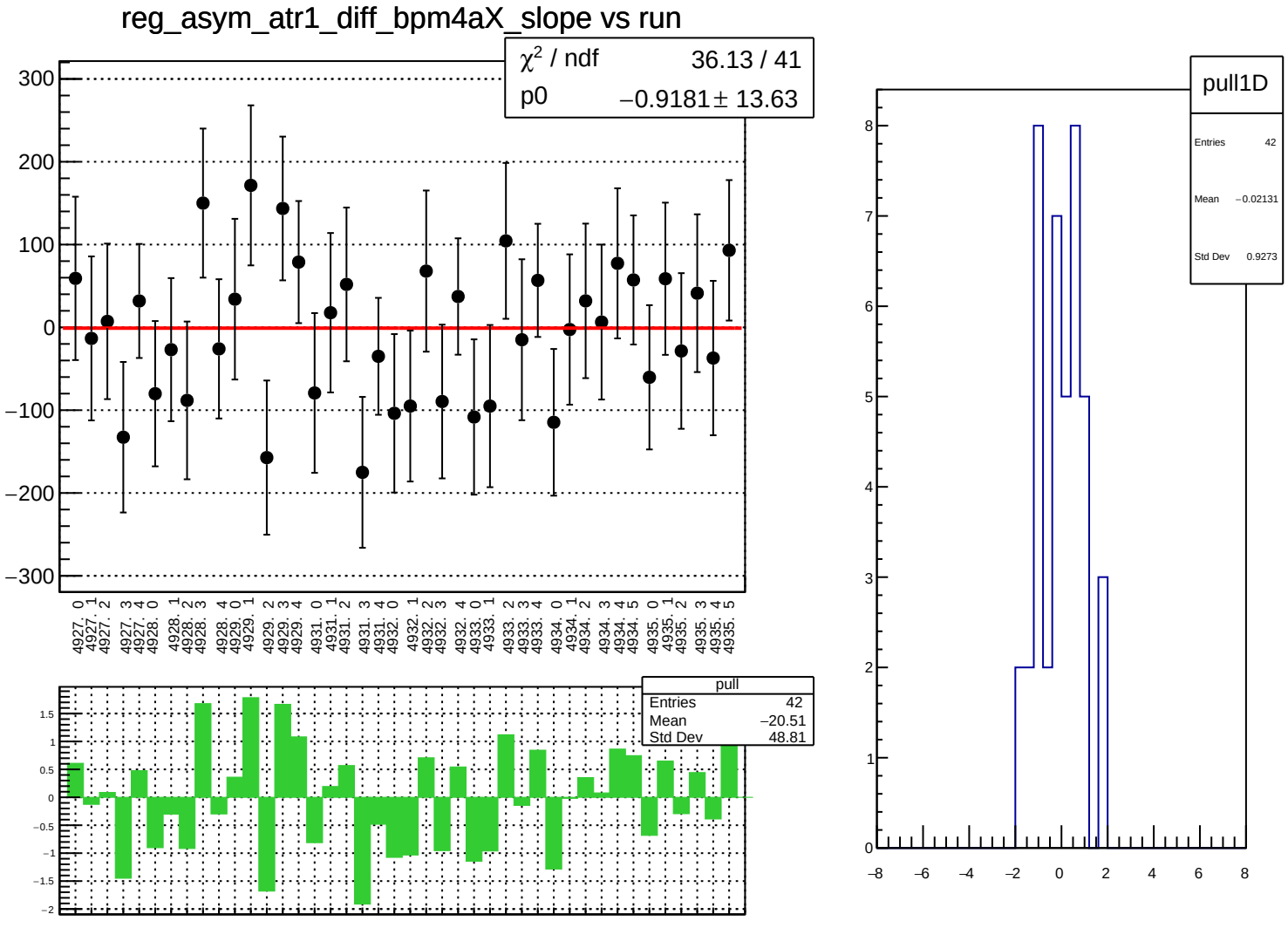

pull1D
Entries 42
Mean 0.004669
Std Dev 0.6204
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

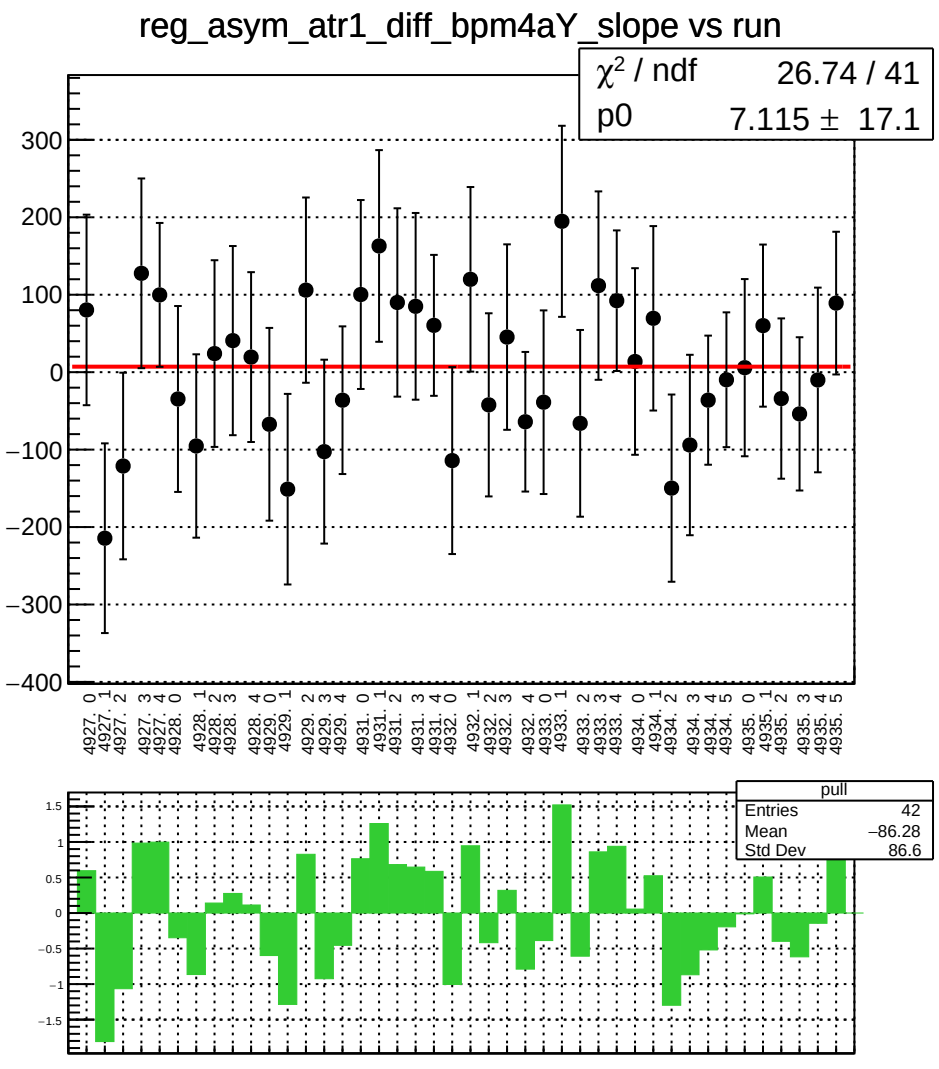

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 441 / 41
p0 −80.71± 2.874
100
50
0
−50
−100
−150
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −59.35
Std Dev 82.59
12
10
8
6
4
2
0
−2

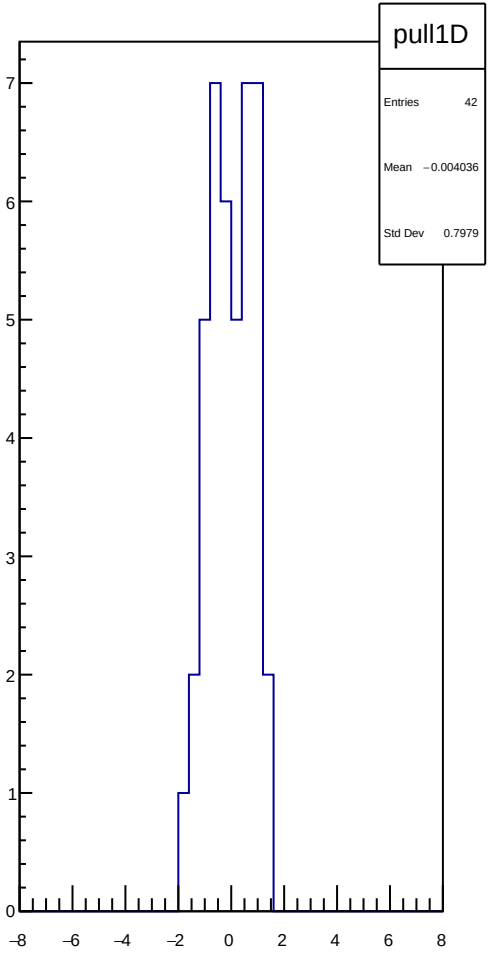

pull1D
Entries 42
Mean −0.6145
Std Dev 2.479
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

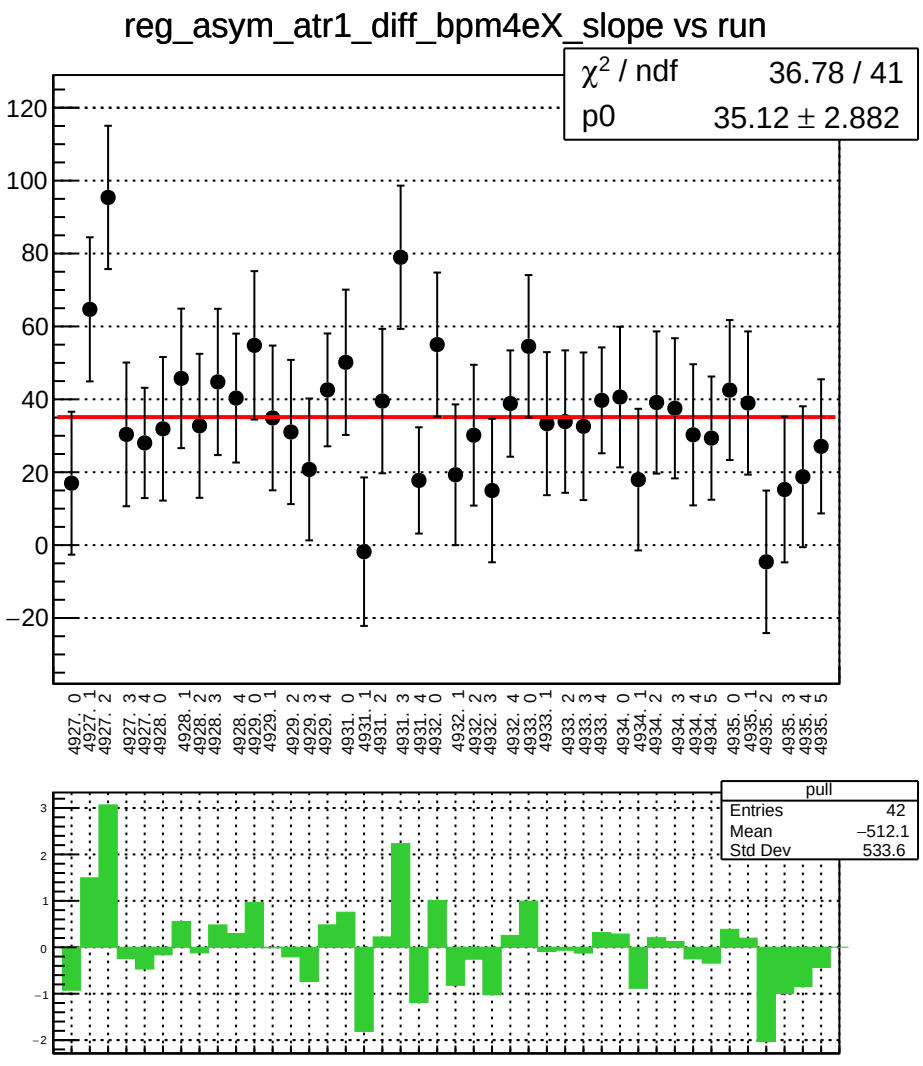

reg_asym_sam8_diff_bpm11X_slope vs run
χ² / ndf 31.24 / 41
p0 −0.7106 ± 0.6853
15
10
5
0
−5
−10
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 603
Std Dev 578.9
3
2.5
2
1.5
1
0.5
0
−0.5
−1

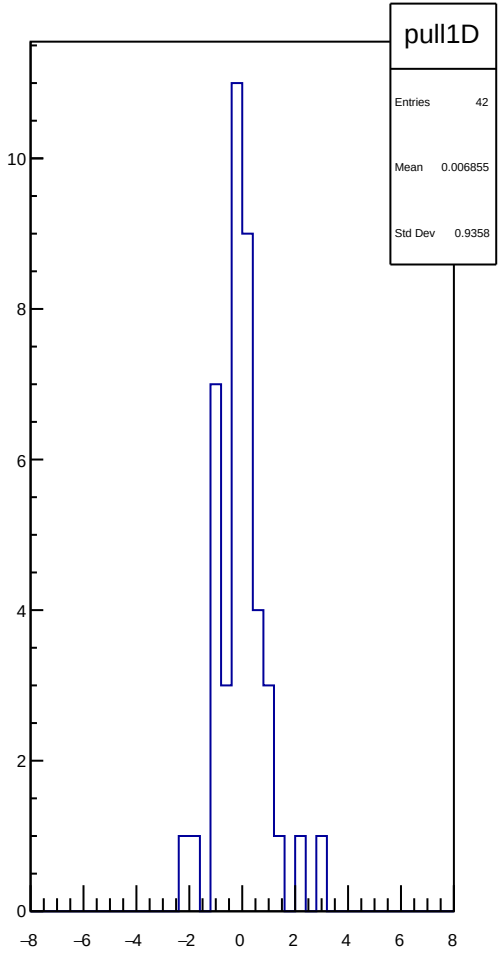

pull1D
Entries 42
Mean 0.01039
Std Dev 0.8624
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

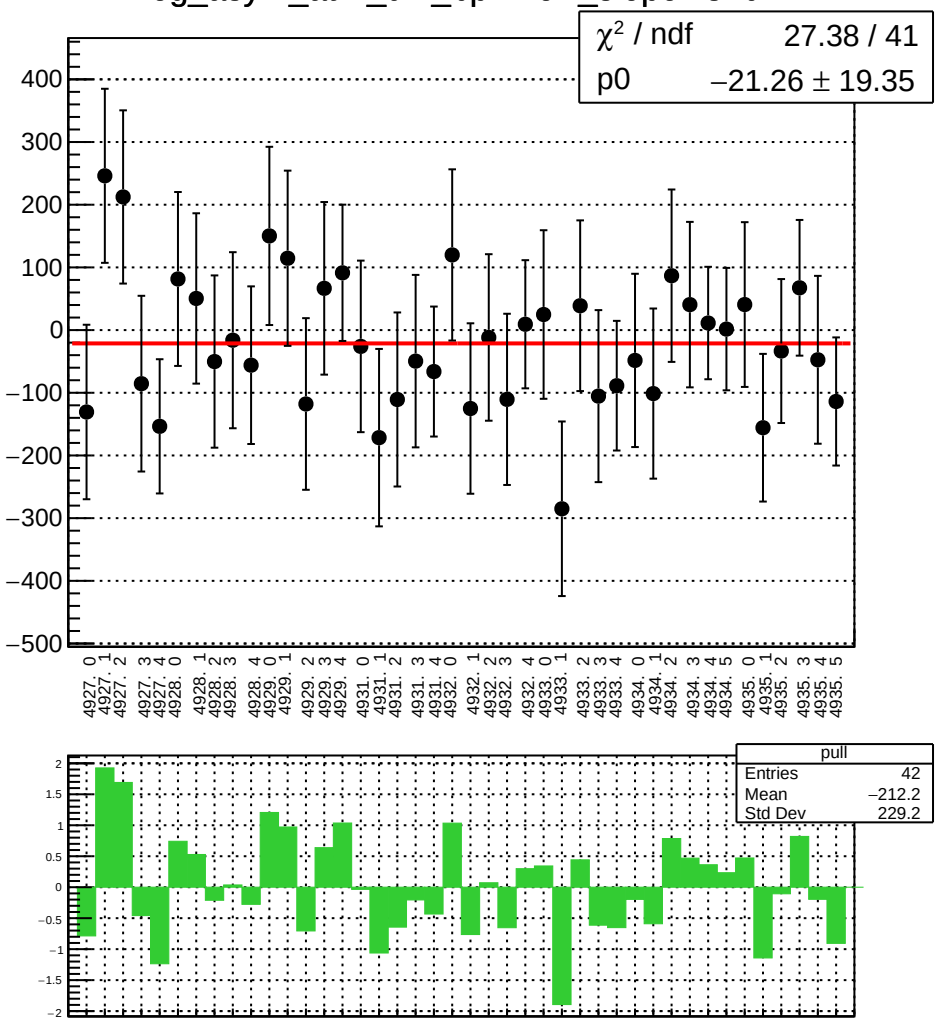

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 36.13 / 41
p0 −0.9181 ± 13.63
300
200
100
0
−100
−200
−300
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −20.51
Std Dev 48.81
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 42
Mean −0.02131
Std Dev 0.9273
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

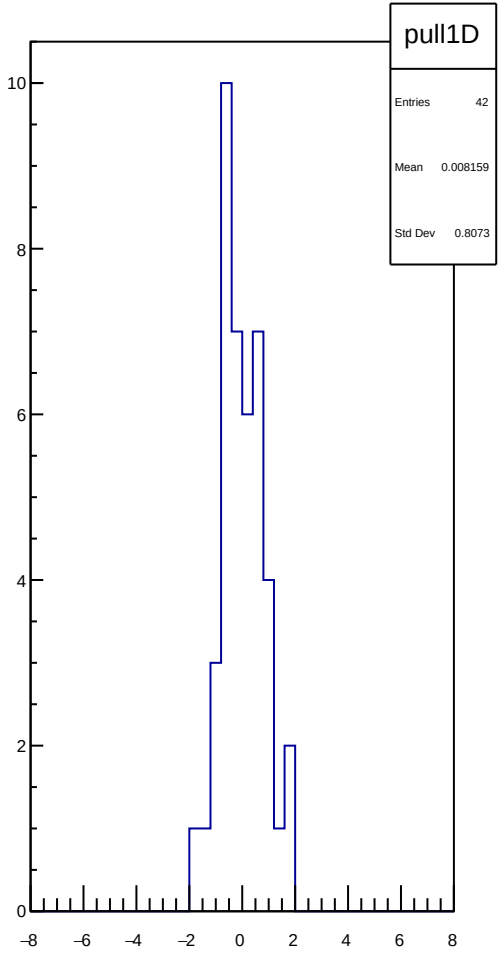

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 26.74 / 41
p0 7.115 ± 17.1
pull
Entries 42
Mean −86.28
Std Dev 86.6

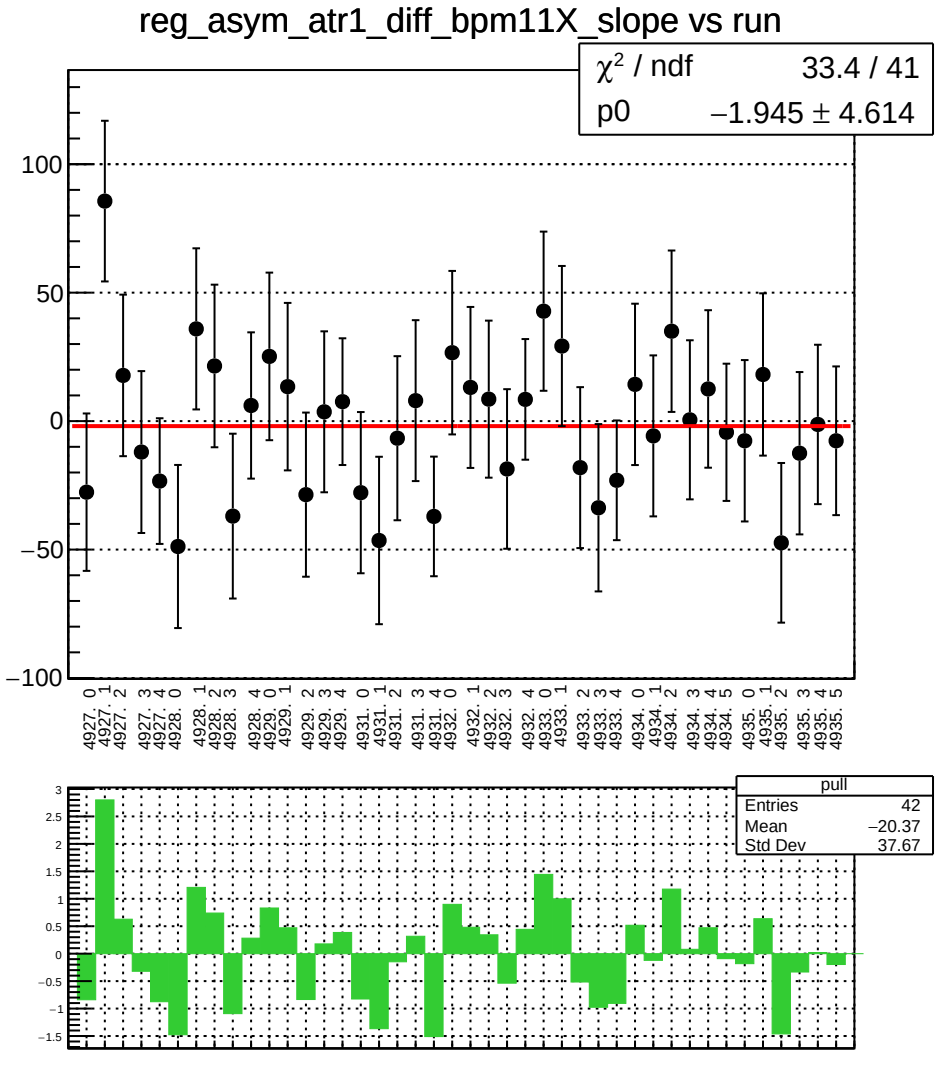

pull1D
Entries 42
Mean −0.004036
Std Dev 0.7979

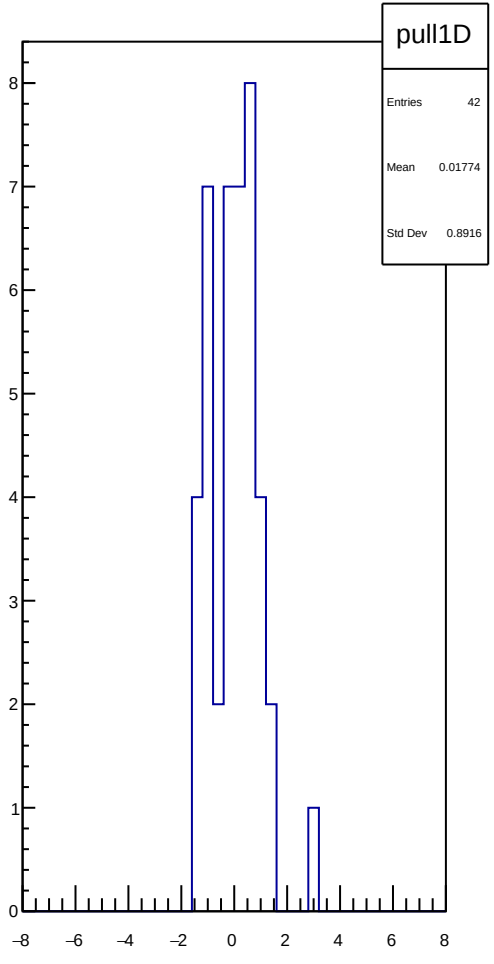

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 36.78 / 41
p0 35.12 ± 2.882
pull
Entries 42
Mean −512.1
Std Dev 533.6

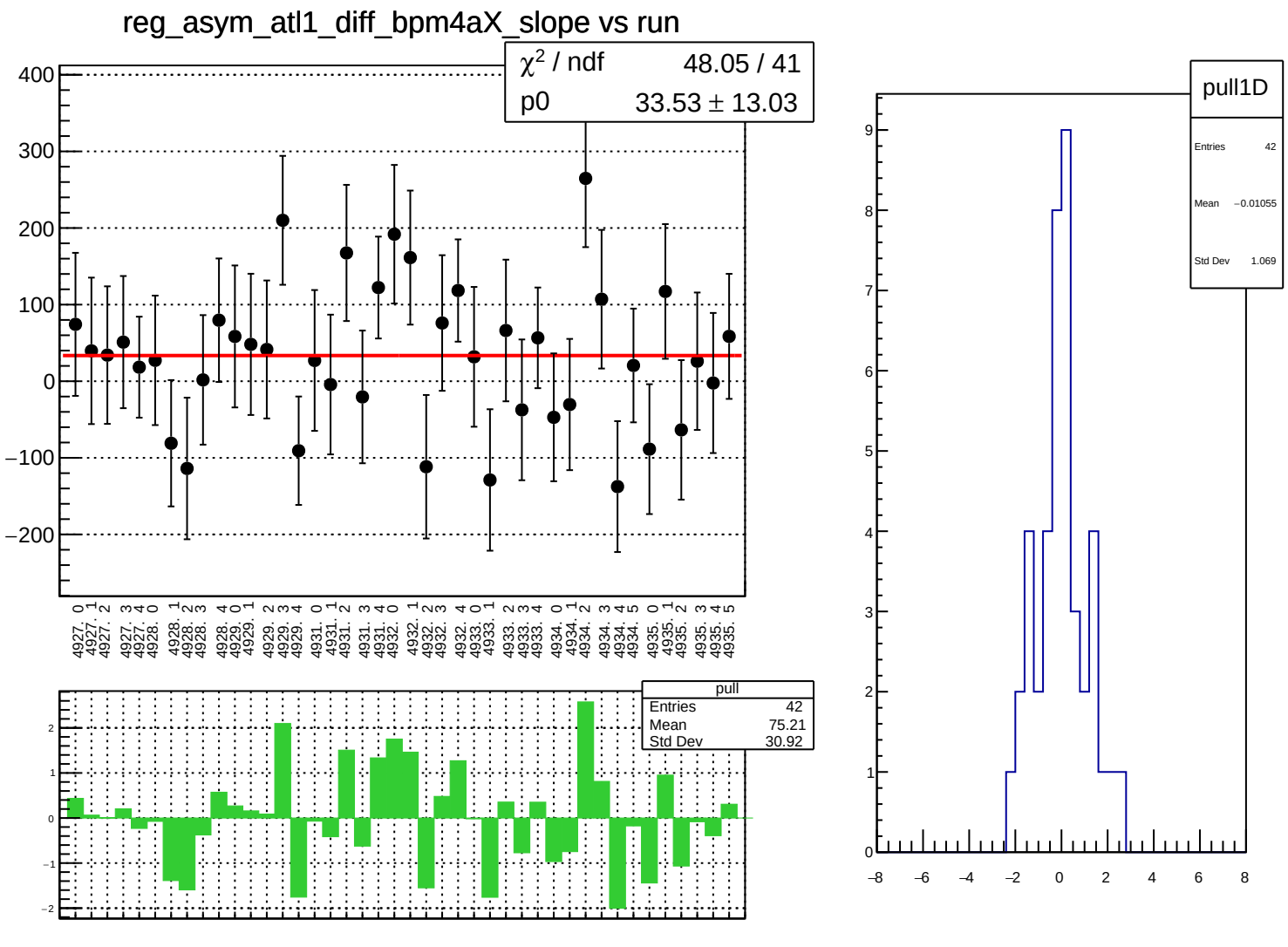

pull1D
Entries 42
Mean 0.006855
Std Dev 0.9358

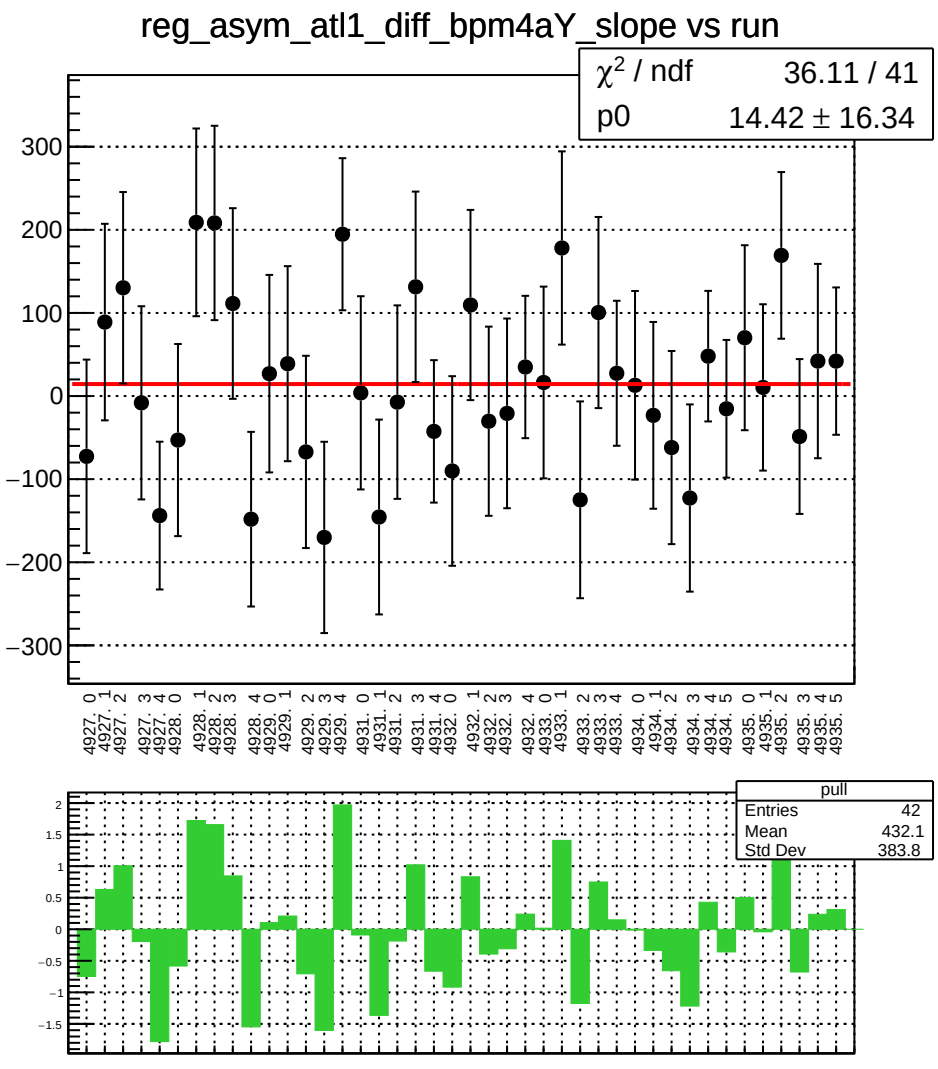

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 27.38 / 41
p0 −21.26 ± 19.35
pull
Entries 42
Mean −212.2
Std Dev 229.2

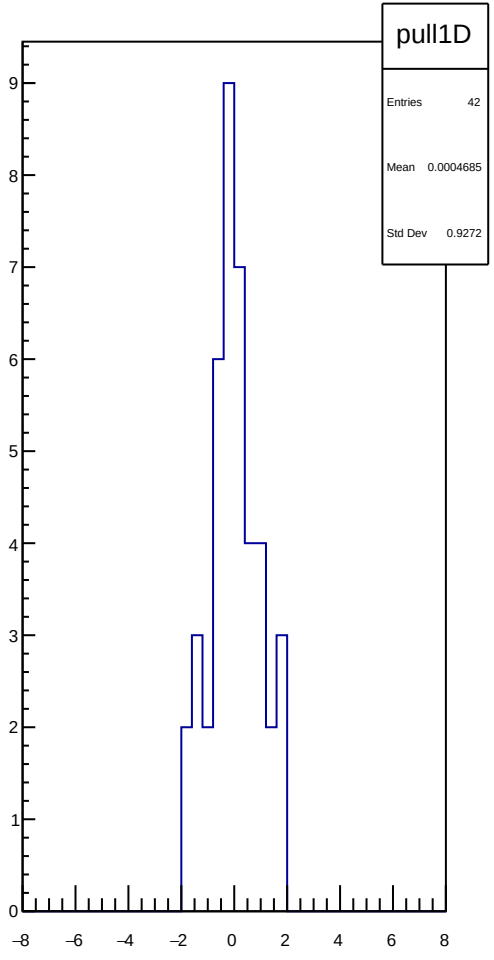

pull1D
Entries 42
Mean 0.008159
Std Dev 0.8073

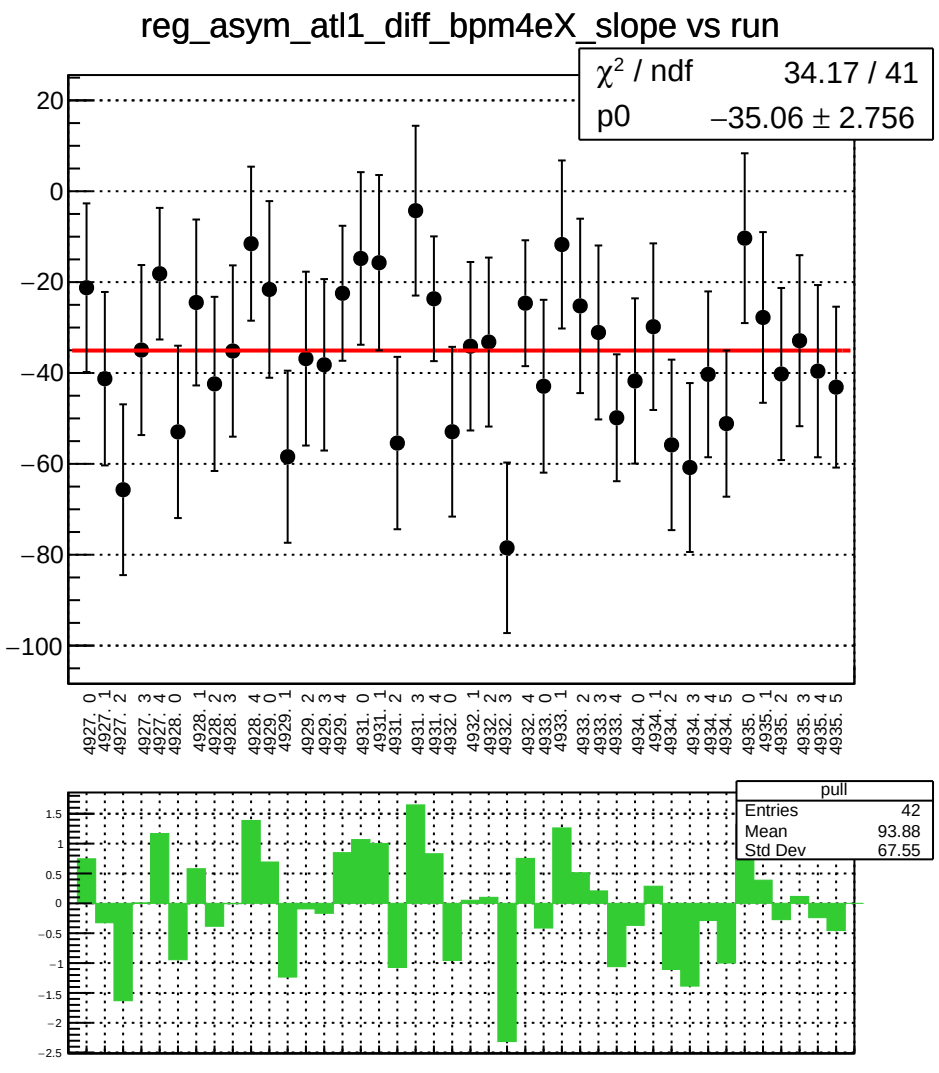

reg_asym_atr1_diff_bpm11X_slope vs run
χ² / ndf 33.4 / 41
p0 −1.945 ± 4.614
pull
Entries 42
Mean −20.37
Std Dev 37.67

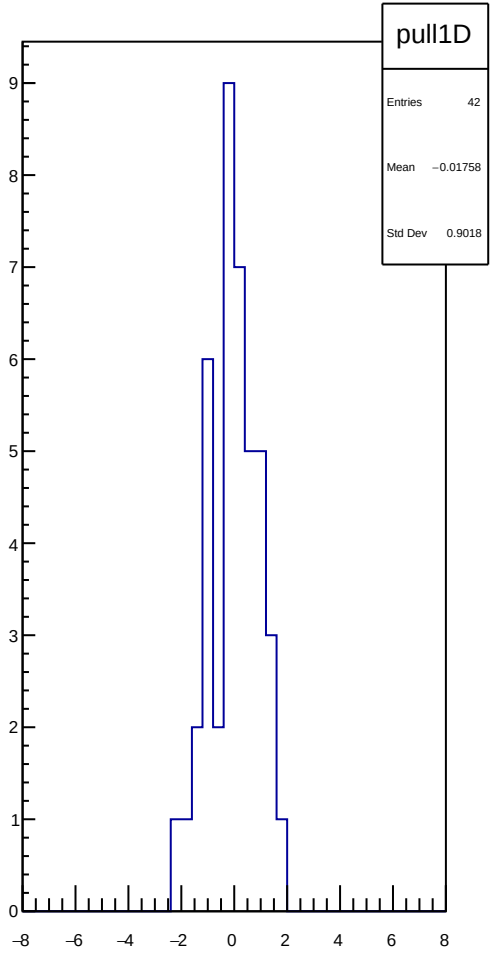

pull1D
Entries 42
Mean 0.01774
Std Dev 0.8916

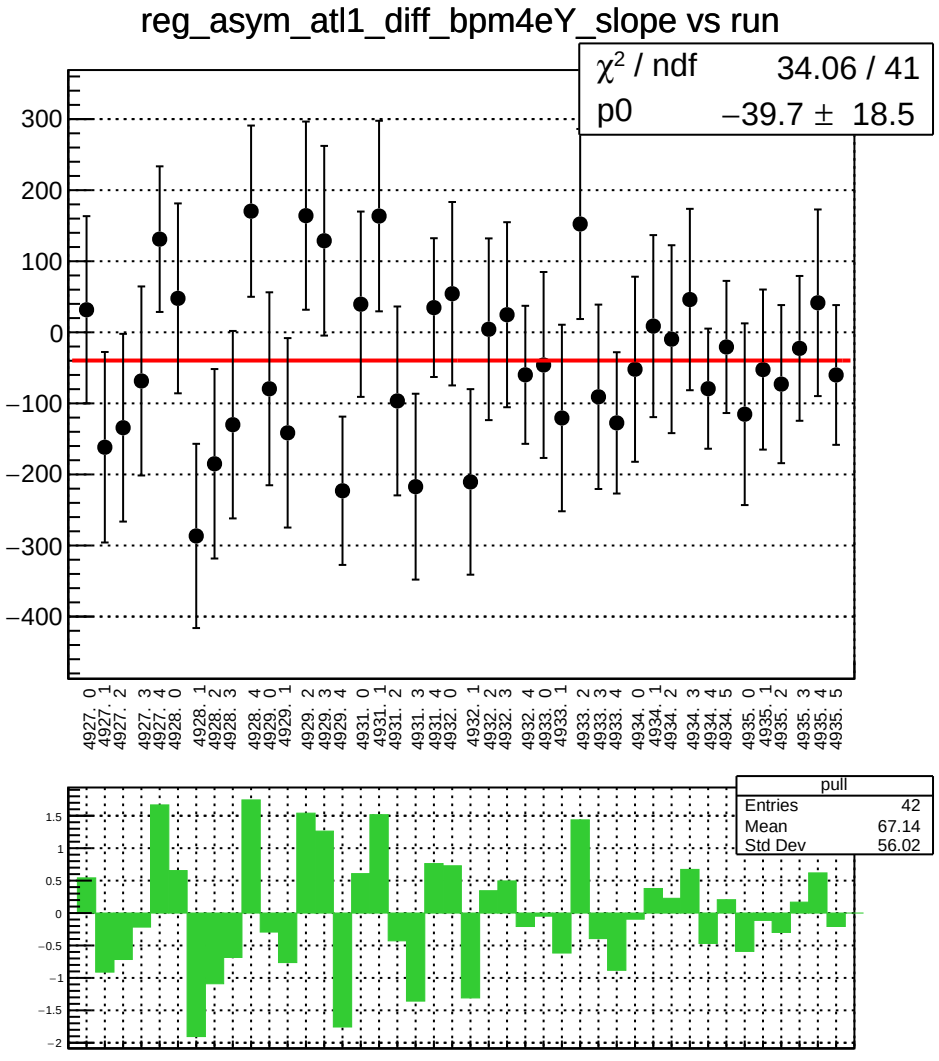

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 48.05 / 41
p0 33.53 ± 13.03
400
300
200
100
0
−100
−200
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 75.21
Std Dev 30.92
2
1
0
−1
−2
pull1D
Entries 42
Mean −0.01055
Std Dev 1.069
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

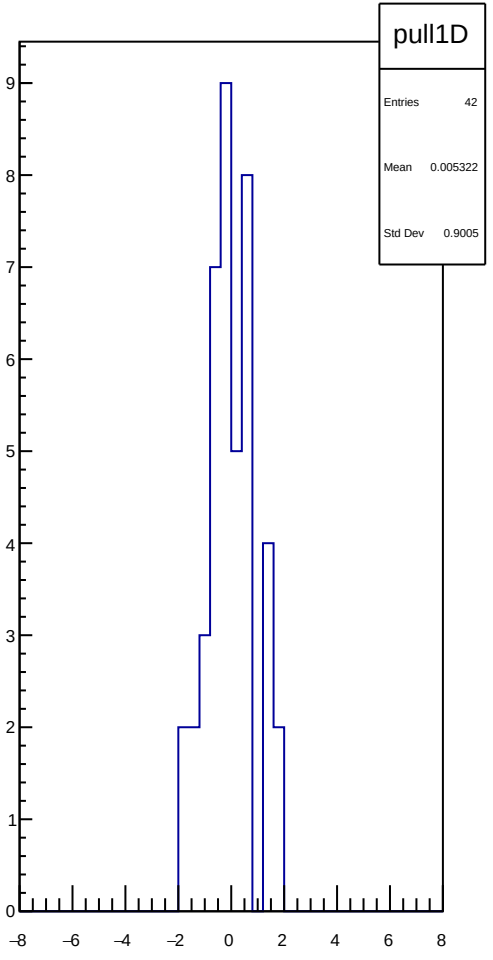

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 36.11 / 41
p0 14.42 ± 16.34
300
200
100
0
−100
−200
−300
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 432.1
Std Dev 383.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

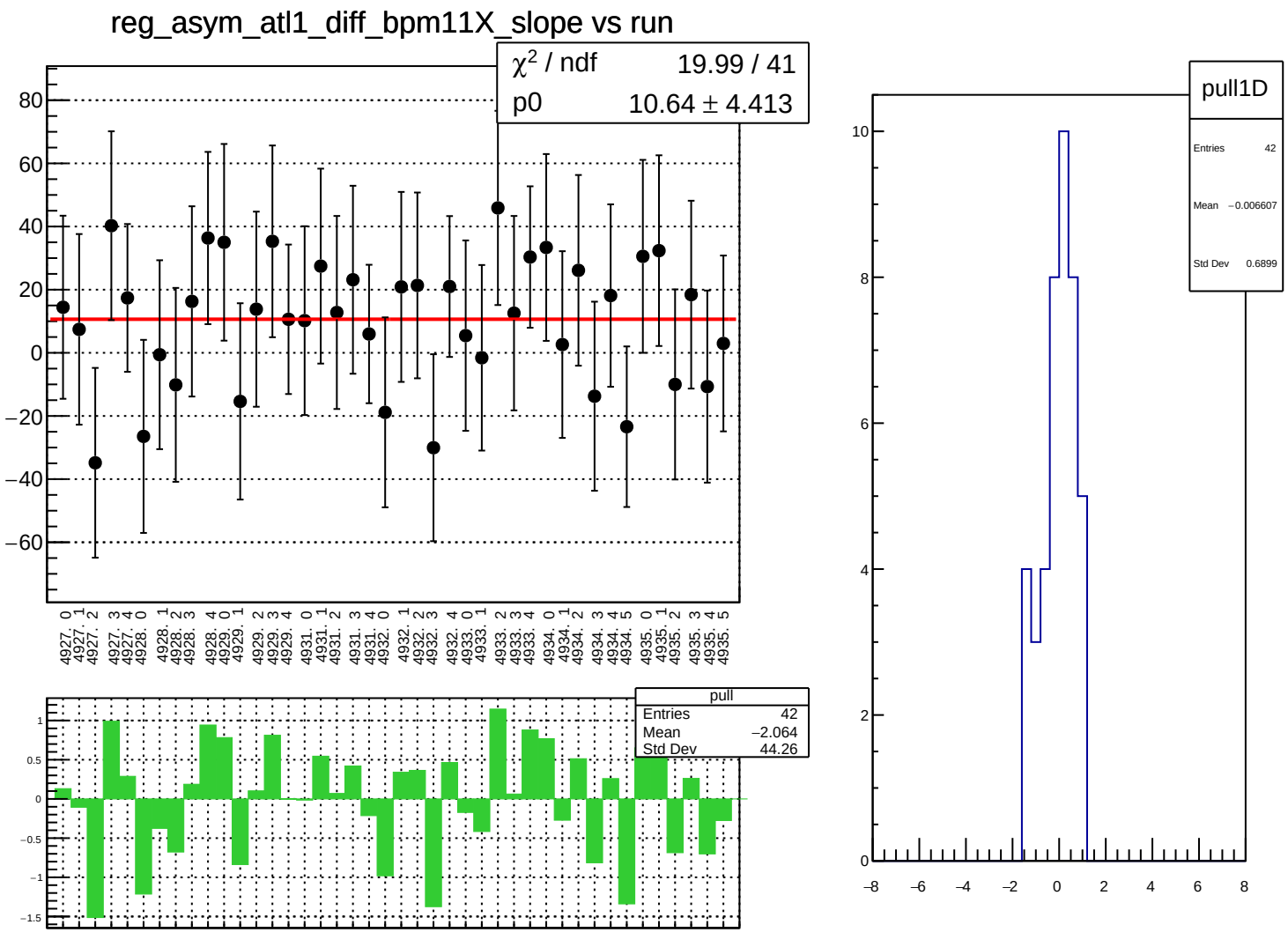

pull1D
Entries 42
Mean 0.0004685
Std Dev 0.9272
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

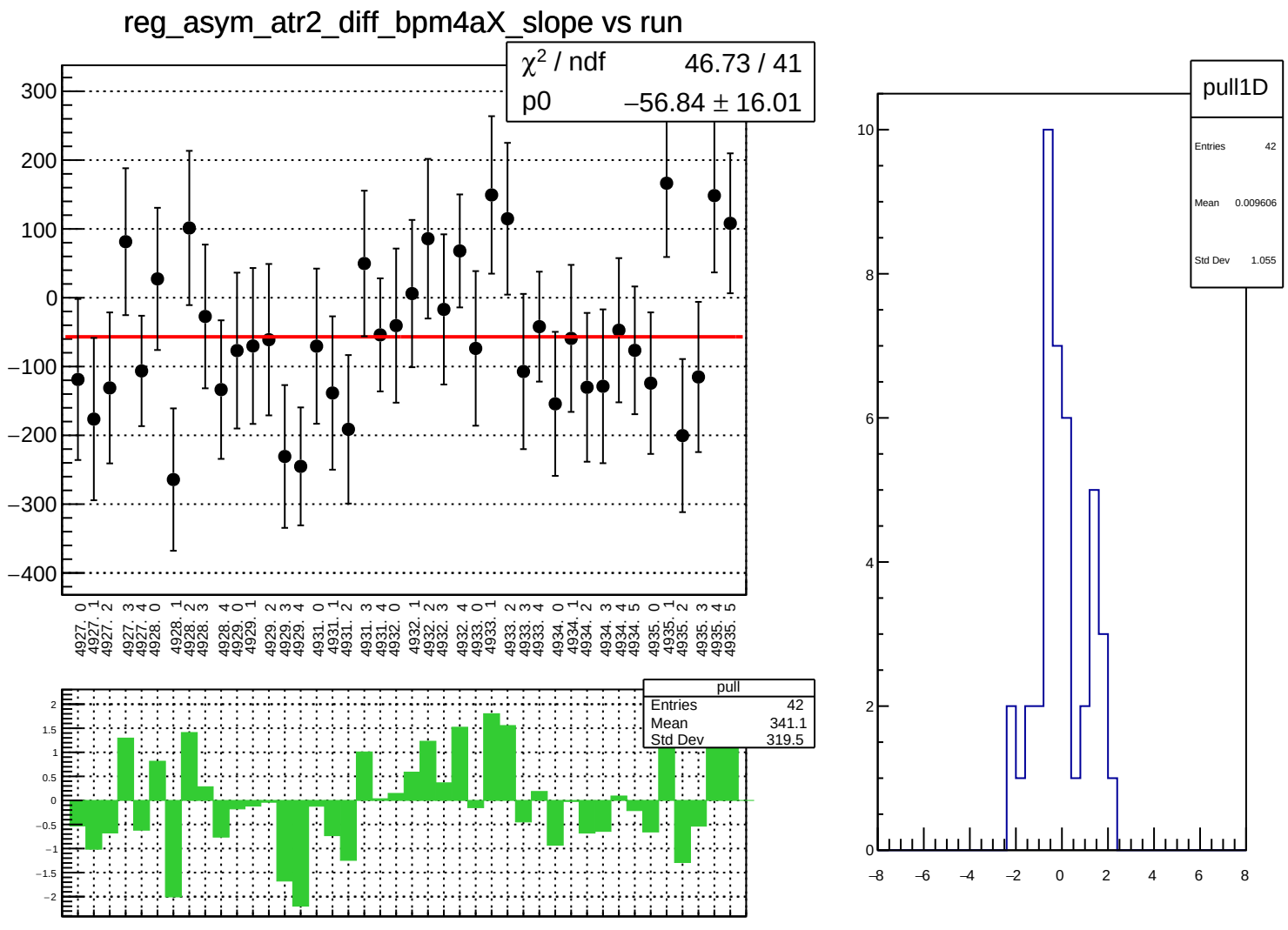

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 34.17 / 41
p0 −35.06 ± 2.756
pull
Entries 42
Mean 93.88
Std Dev 67.55

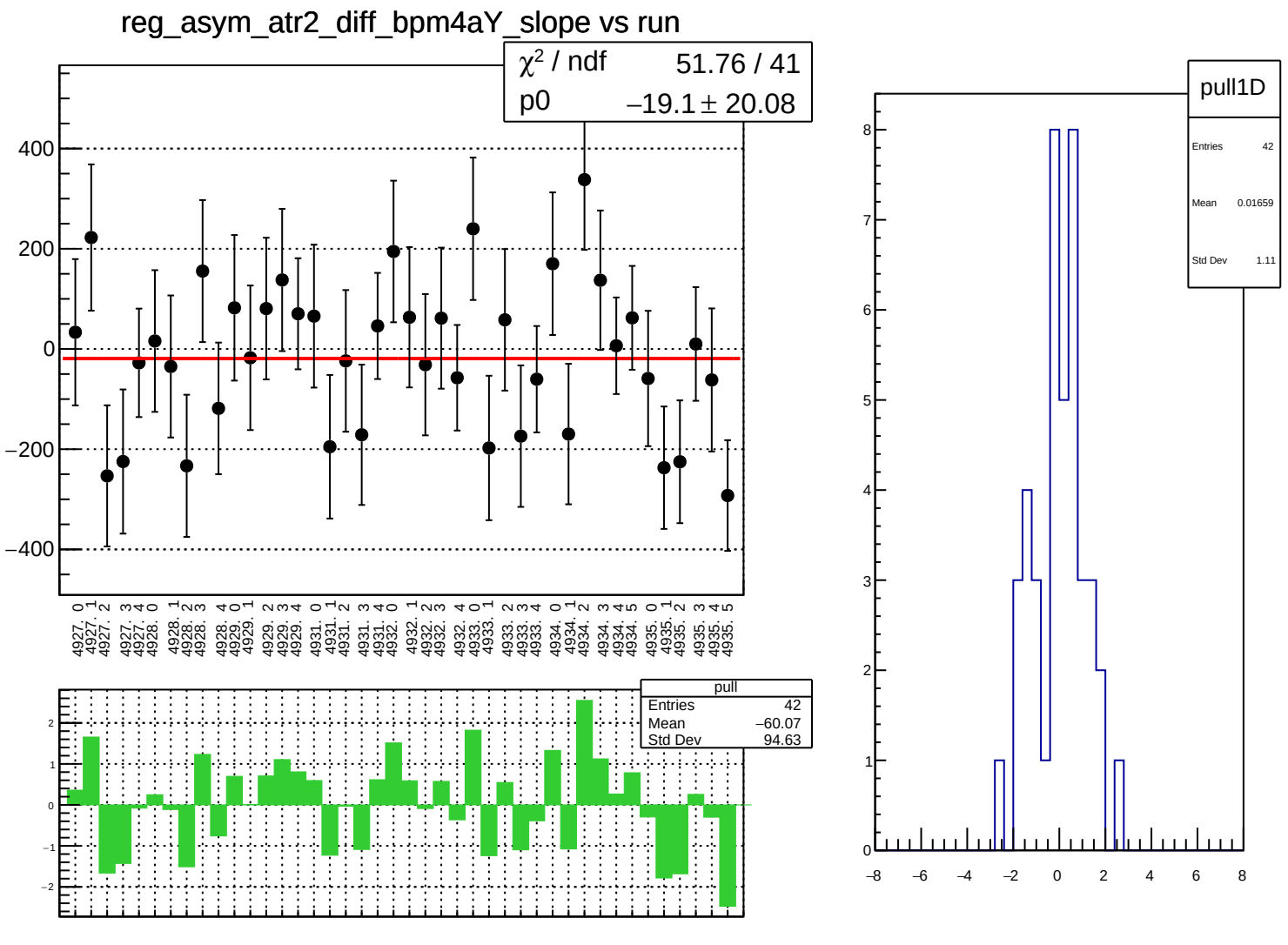

pull1D
Entries 42
Mean −0.01758
Std Dev 0.9018

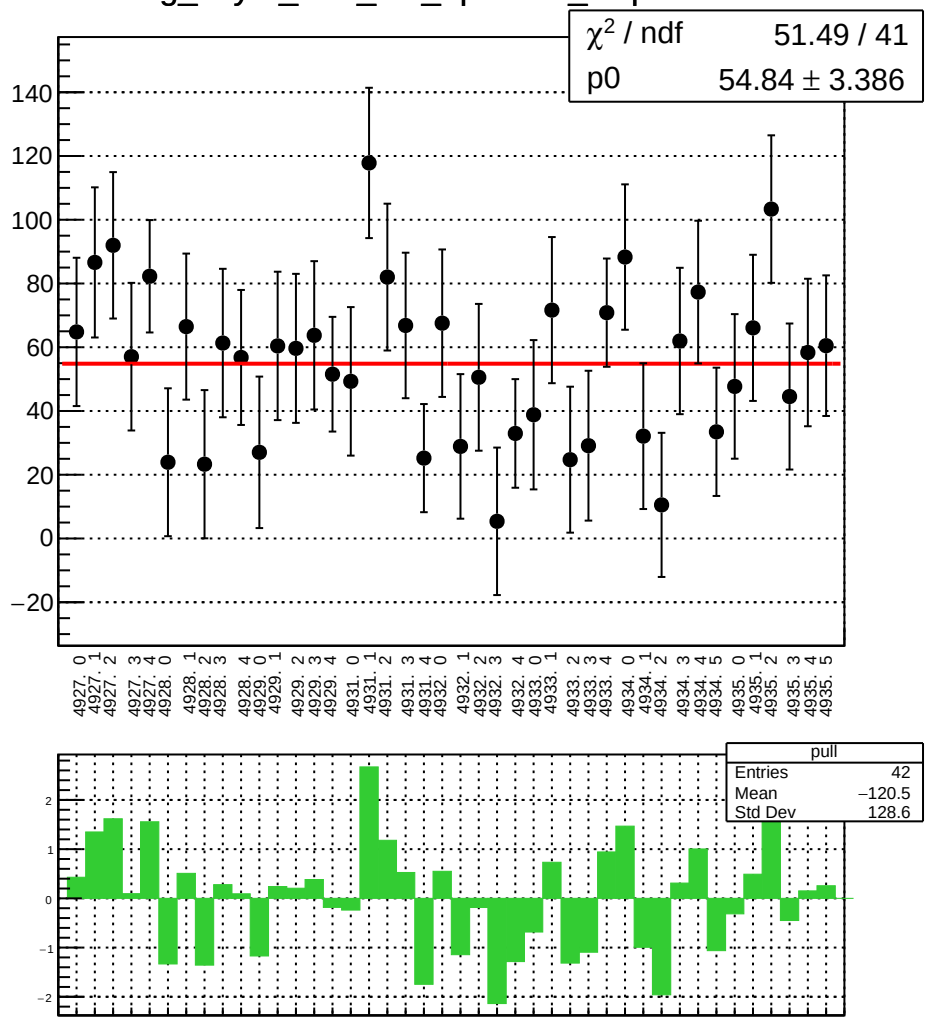

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 34.06 / 41
p0 −39.7 ± 18.5
pull
Entries 42
Mean 67.14
Std Dev 56.02

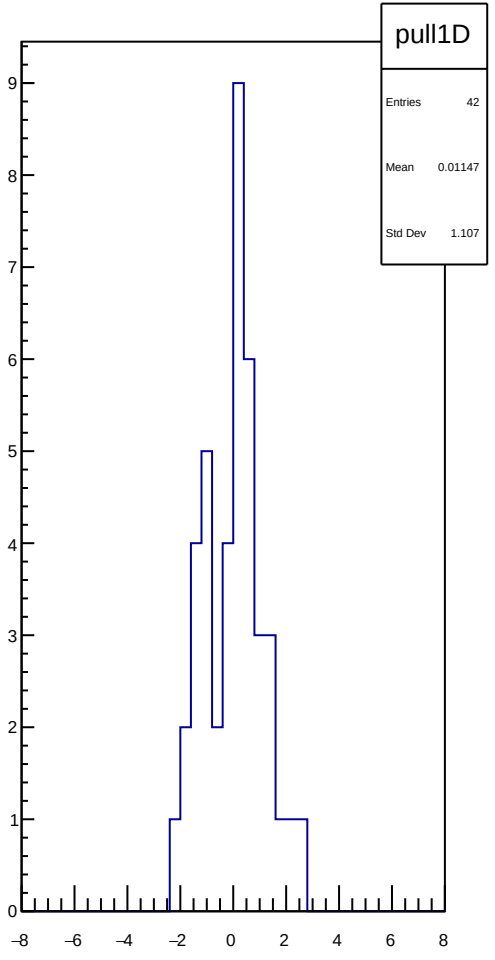

pull1D
Entries 42
Mean 0.005322
Std Dev 0.9005

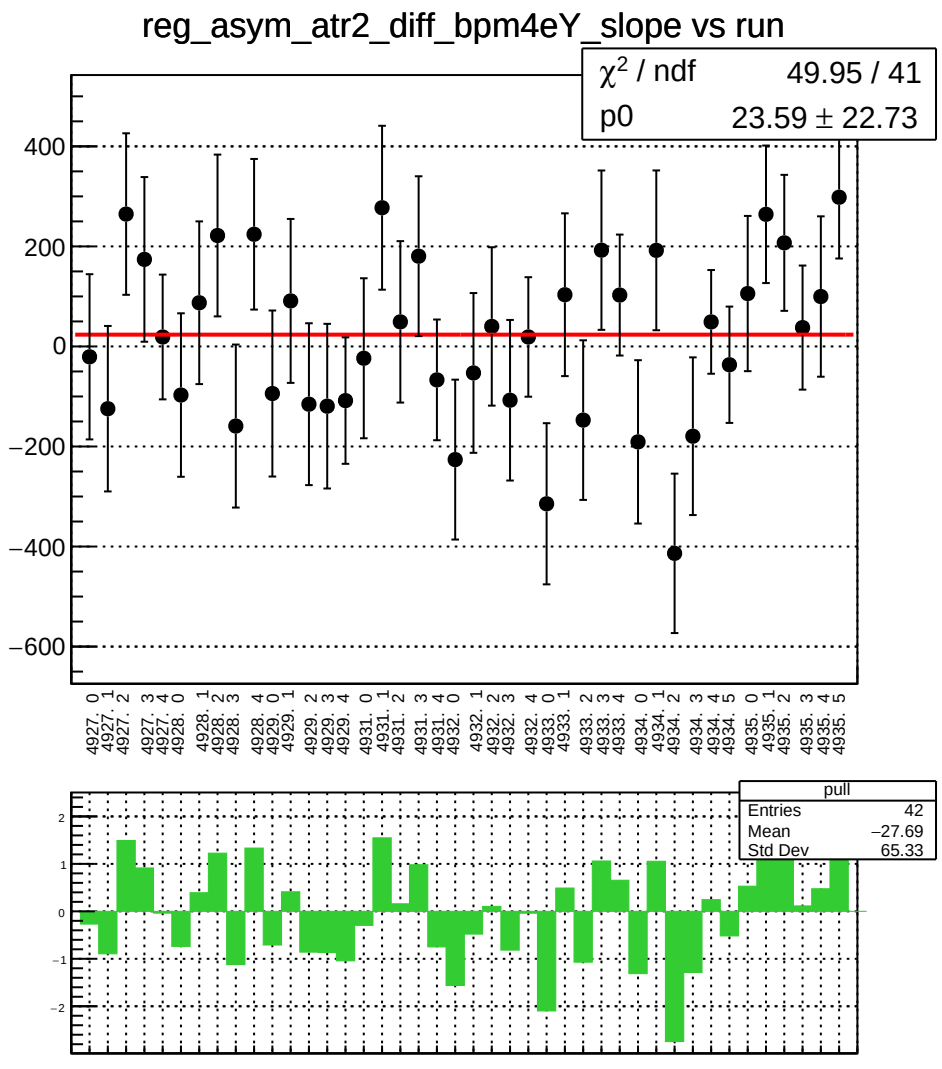

reg_asym_atl1_diff_bpm11X_slope vs run
χ² / ndf 19.99 / 41
p0 10.64 ± 4.413
pull
Entries 42
Mean −2.064
Std Dev 44.26
pull1D
Entries 42
Mean −0.006607
Std Dev 0.6899

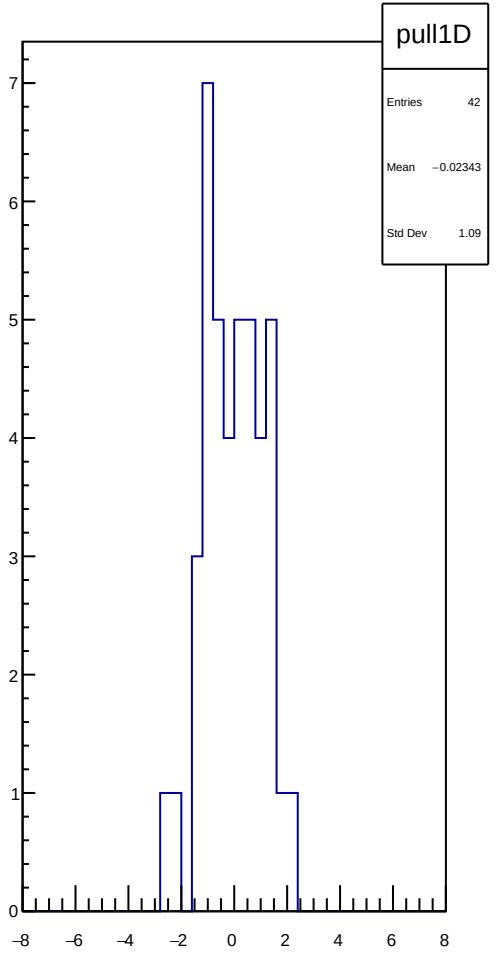

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 46.73 / 41
p0 −56.84 ± 16.01
300
200
100
0
−100
−200
−300
−400
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 341.1
Std Dev 319.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 42
Mean 0.009606
Std Dev 1.055
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

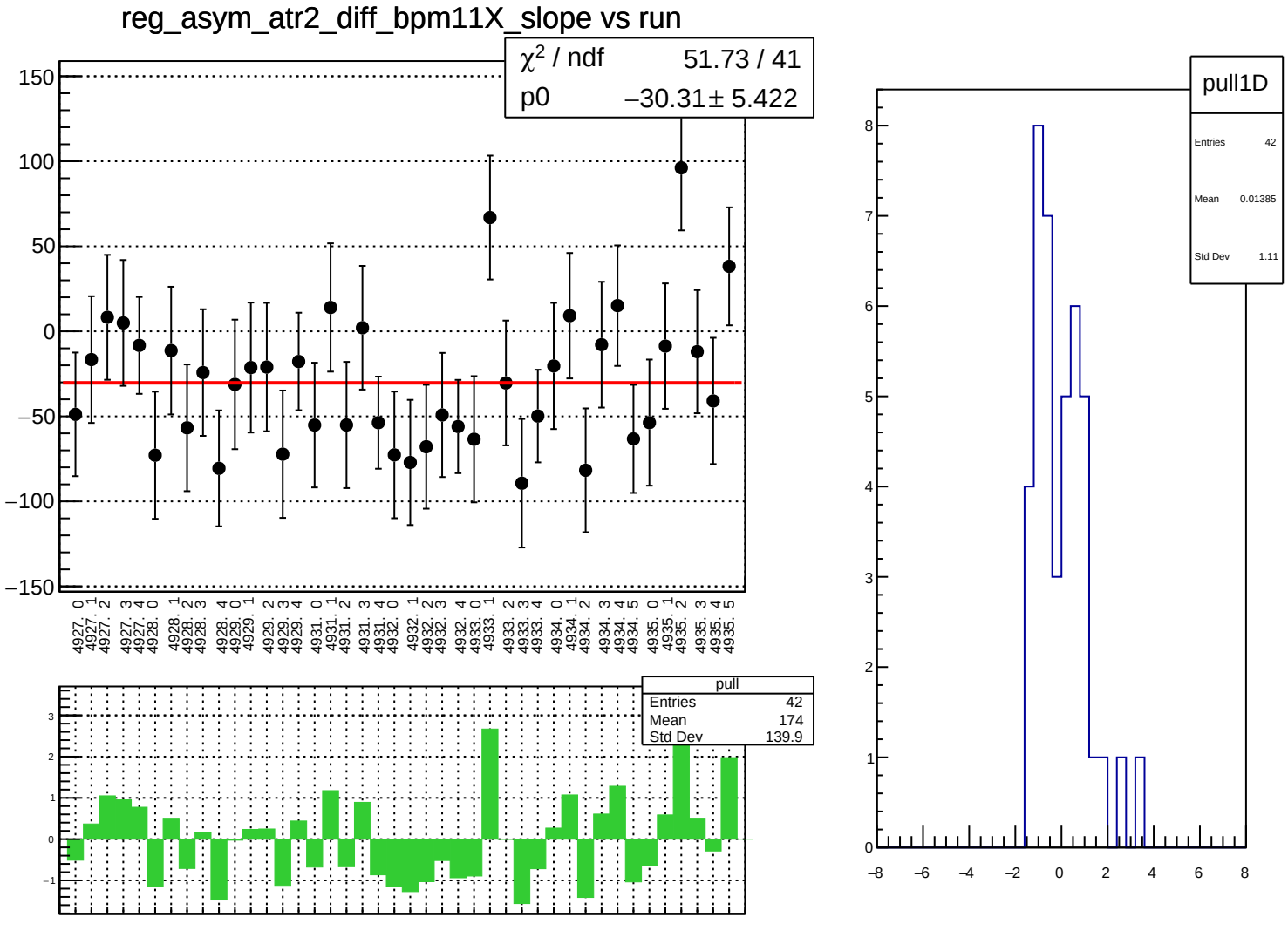

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 51.76 / 41
p0 −19.1 ± 20.08
400
200
0
−200
−400
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −60.07
Std Dev 94.63
2
1
0
−1
−2
pull1D
Entries 42
Mean 0.01659
Std Dev 1.11
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

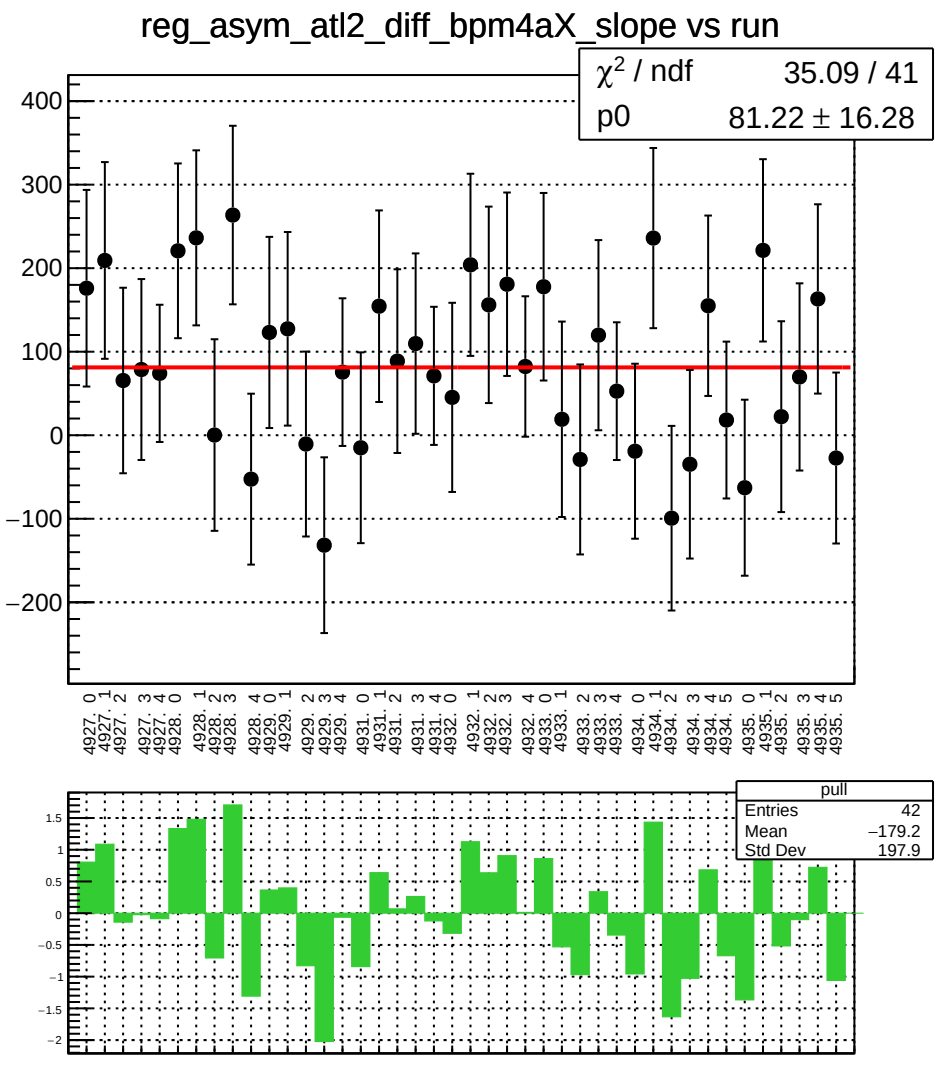

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 51.49 / 41
p0 54.84 ± 3.386
pull
Entries 42
Mean −120.5
Std Dev 128.6

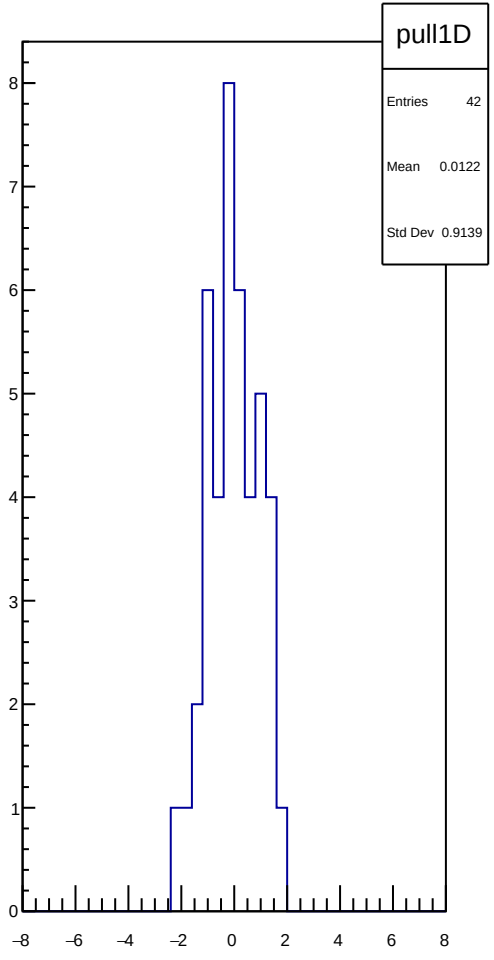

pull1D
Entries 42
Mean 0.01147
Std Dev 1.107

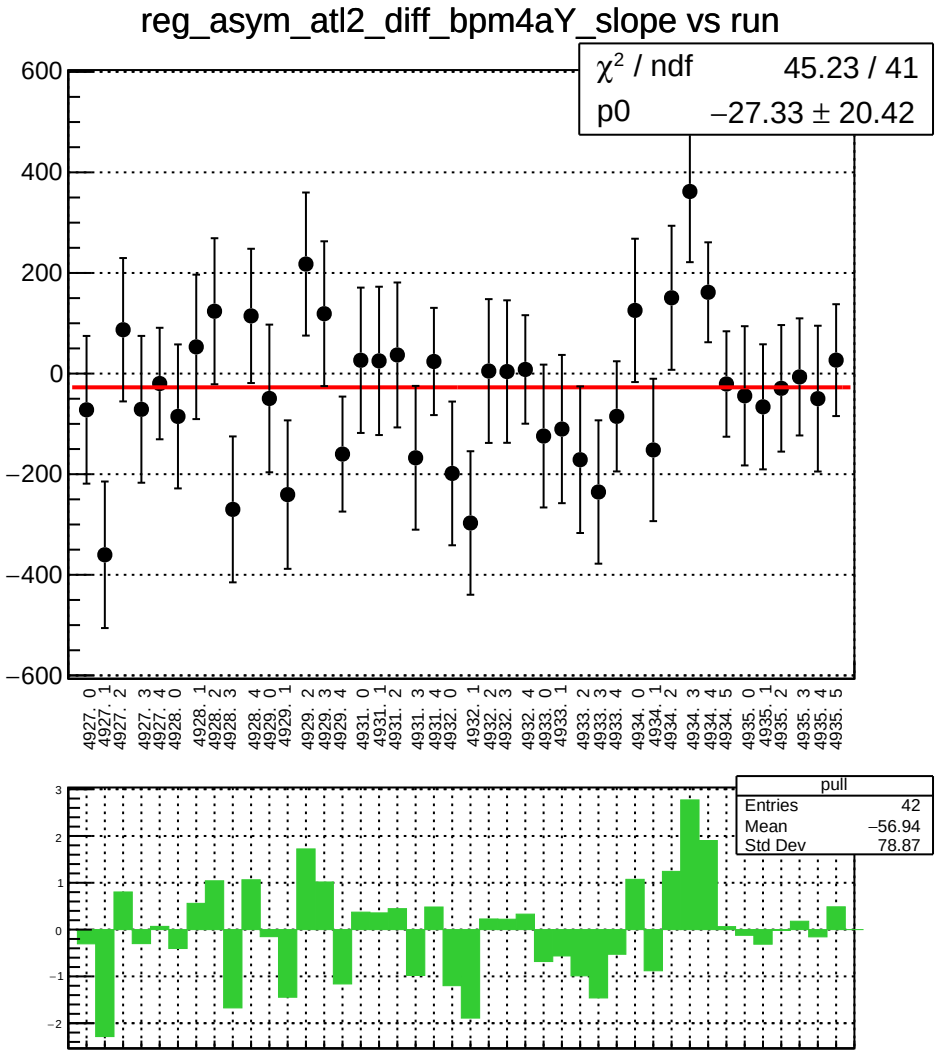

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 49.95 / 41
p0 23.59 ± 22.73
400
200
0
−200
−400
−600
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −27.69
Std Dev 65.33
2
1
0
−1
−2

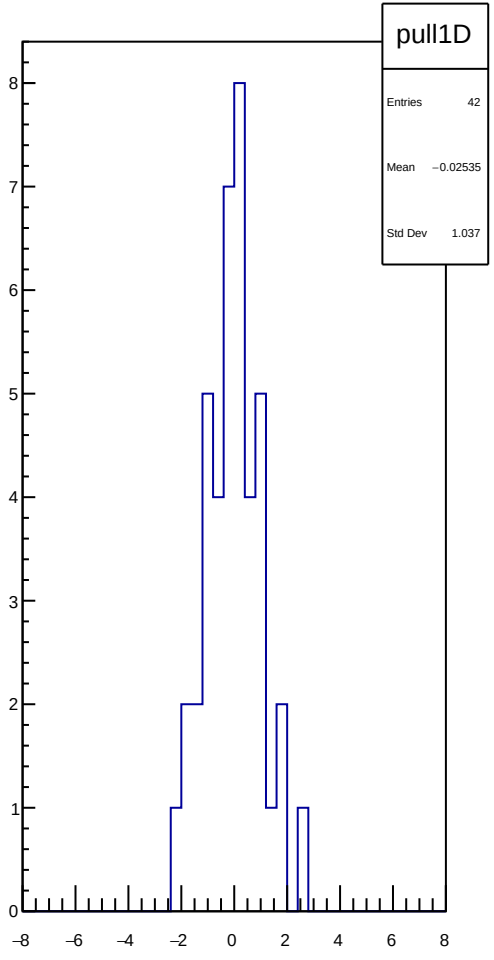

pull1D
Entries 42
Mean −0.02343
Std Dev 1.09
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

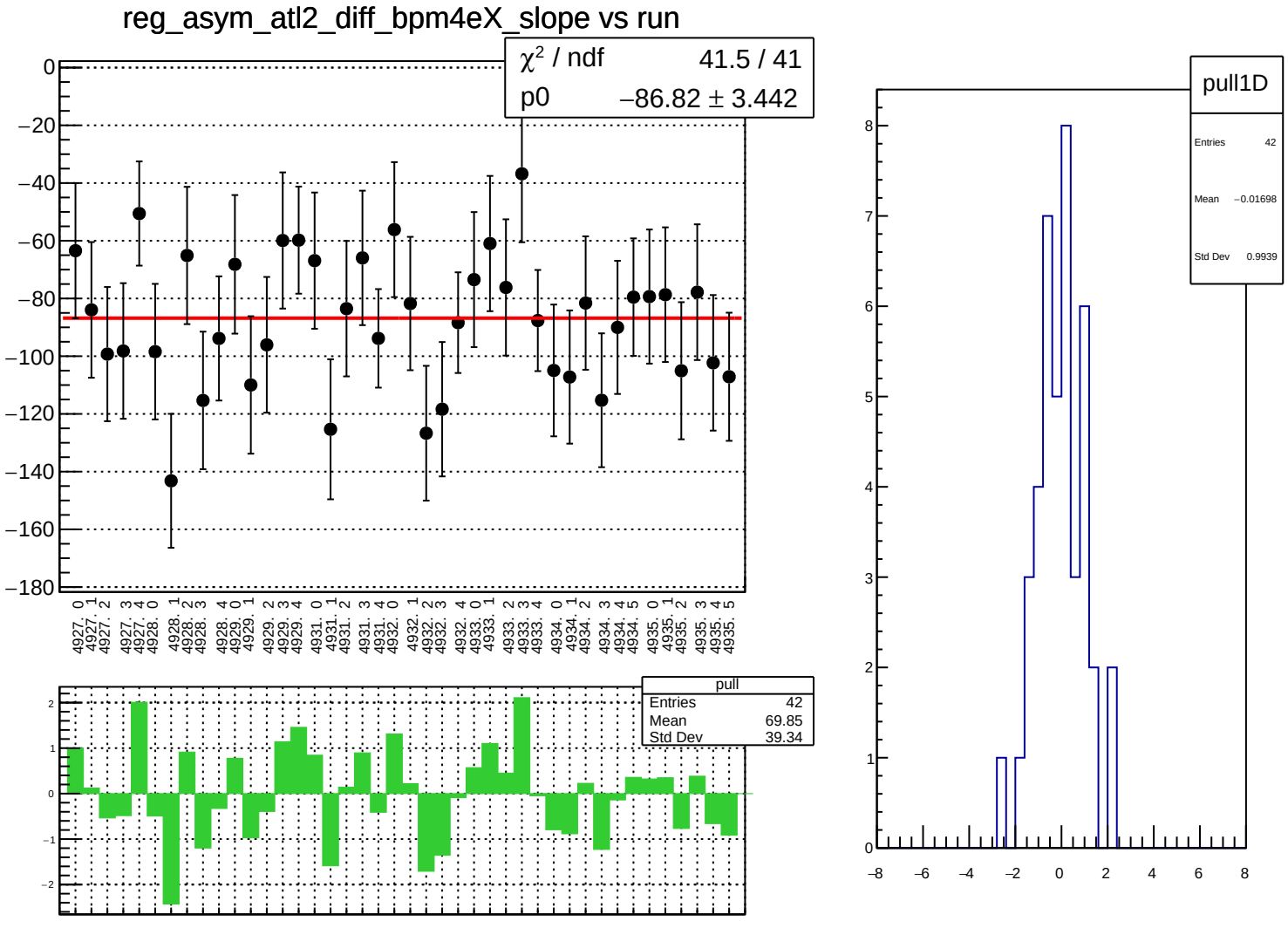

reg_asym_atr2_diff_bpm11X_slope vs run
χ² / ndf 51.73 / 41
p0 −30.31 ± 5.422
150
100
50
0
−50
−100
−150
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 174
Std Dev 139.9
3
2
1
0
−1
pull1D
Entries 42
Mean 0.01385
Std Dev 1.11
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

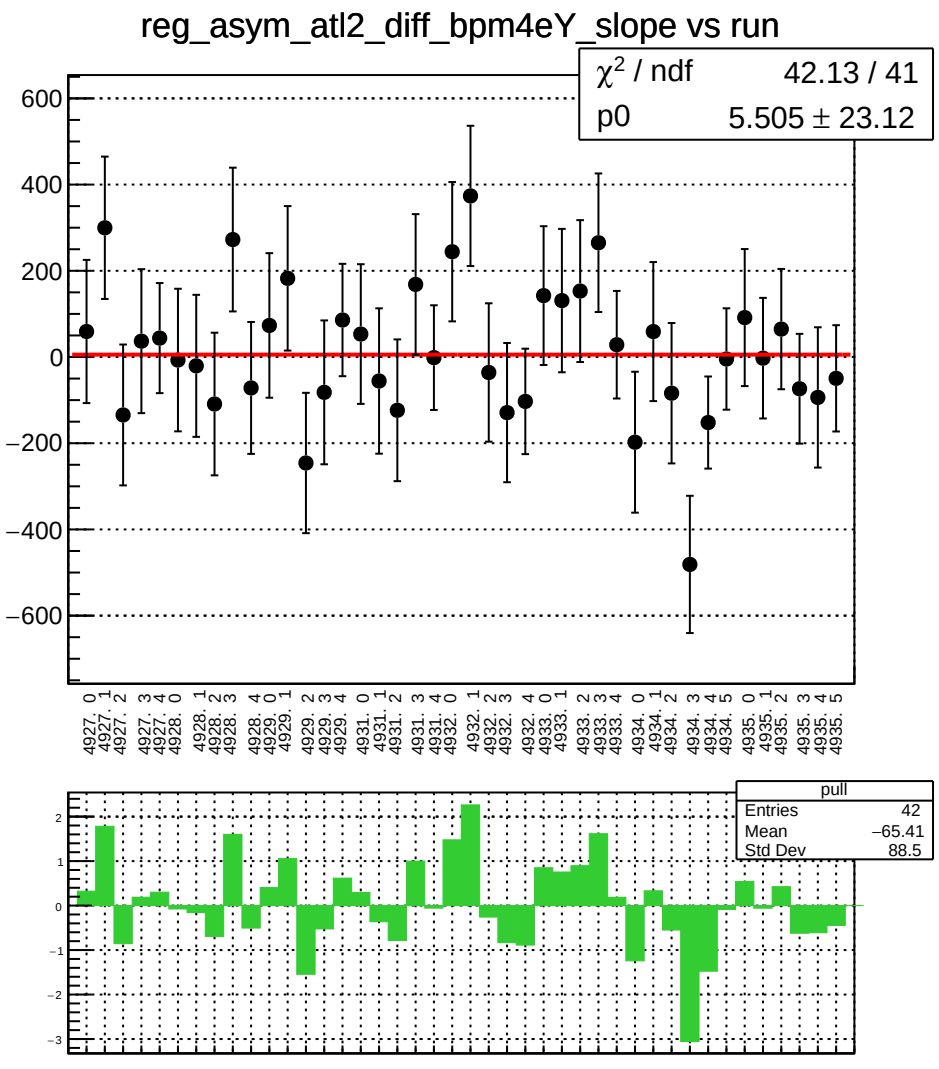

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 35.09 / 41
p0 81.22 ± 16.28
400
300
200
100
0
−100
−200
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −179.2
Std Dev 197.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

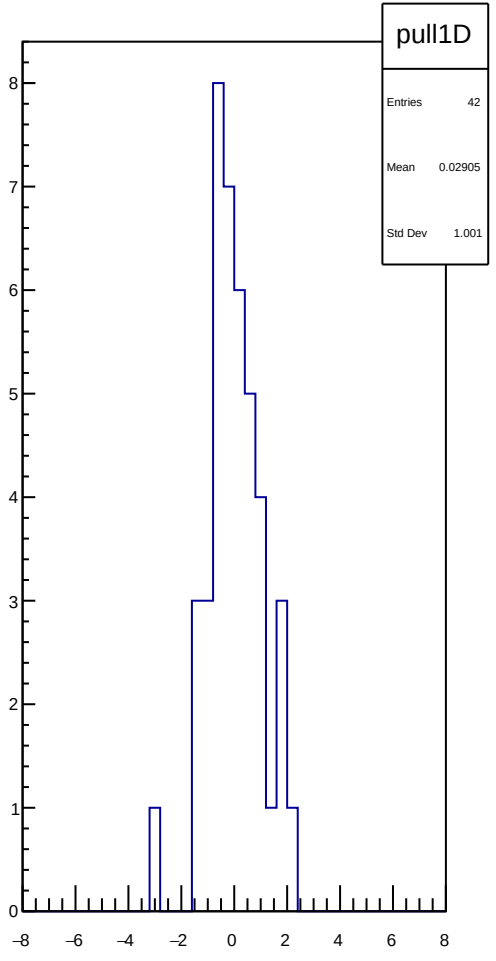

pull1D
Entries 42
Mean 0.0122
Std Dev 0.9139
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

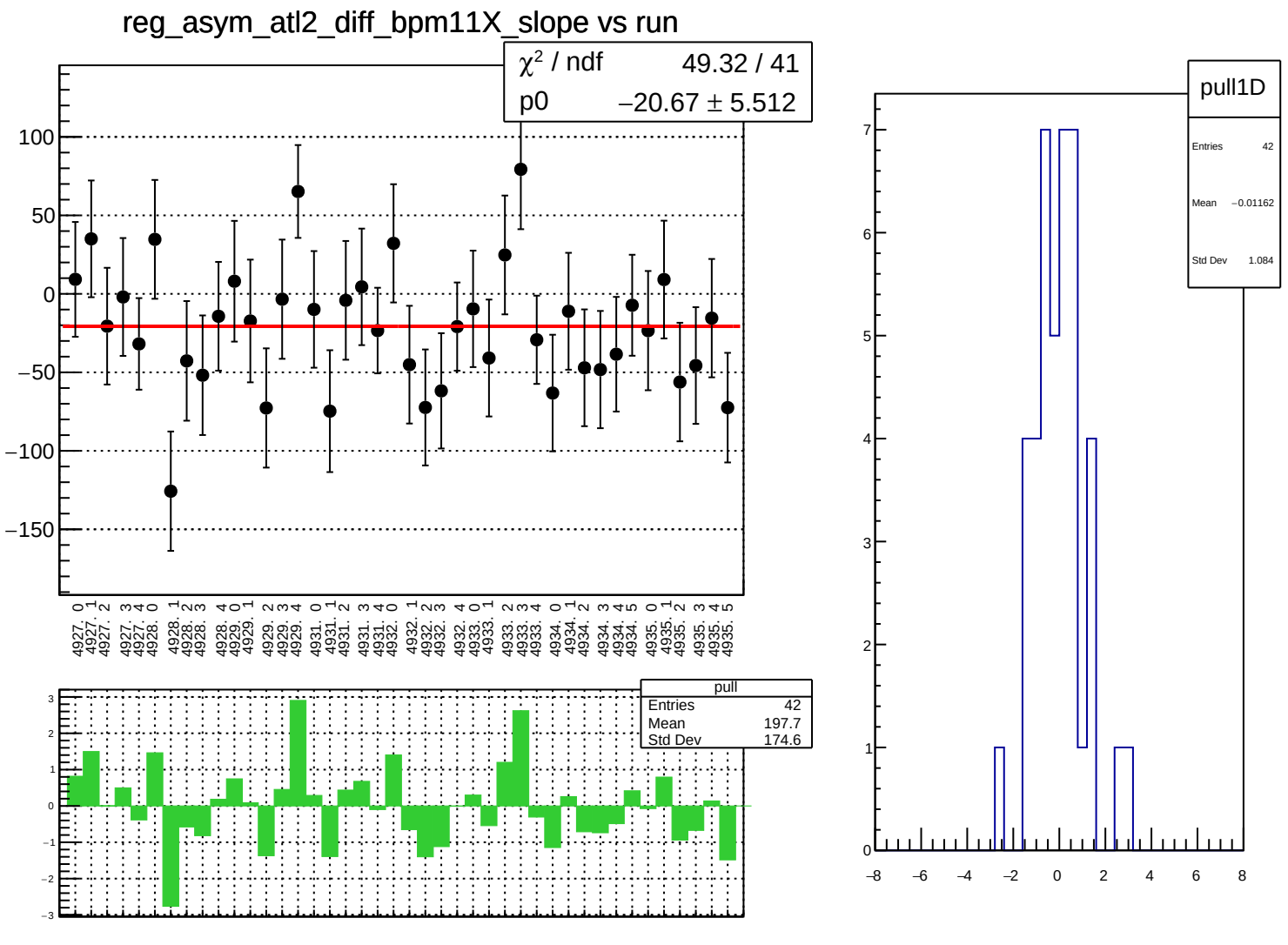

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 45.23 / 41
p0 −27.33 ± 20.42
pull
Entries 42
Mean −56.94
Std Dev 78.87

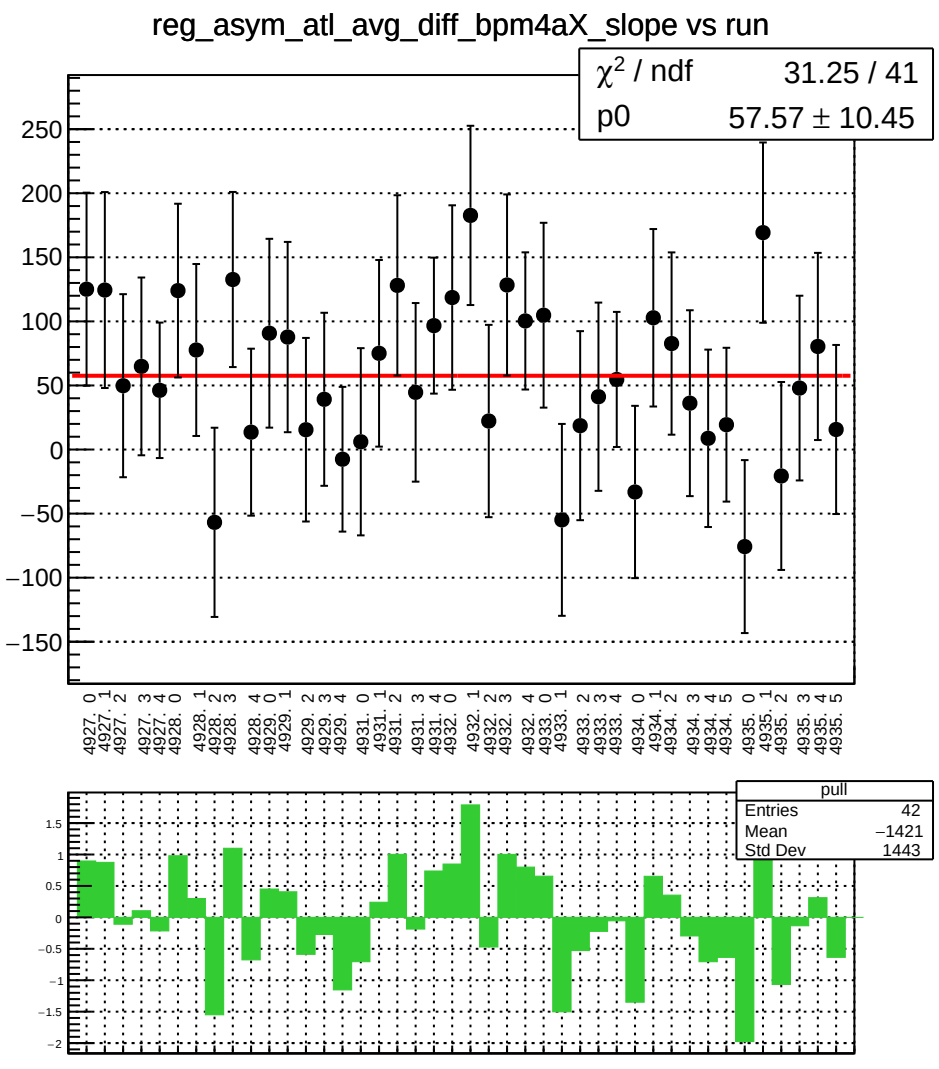

pull1D
Entries 42
Mean −0.02535
Std Dev 1.037

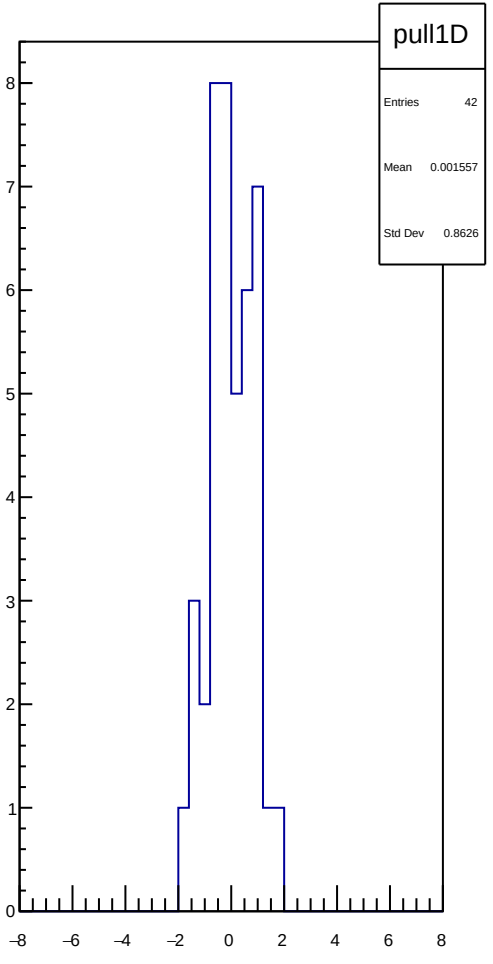

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 41.5 / 41
p0 −86.82 ± 3.442
pull
Entries 42
Mean 69.85
Std Dev 39.34
pull1D
Entries 42
Mean −0.01698
Std Dev 0.9939

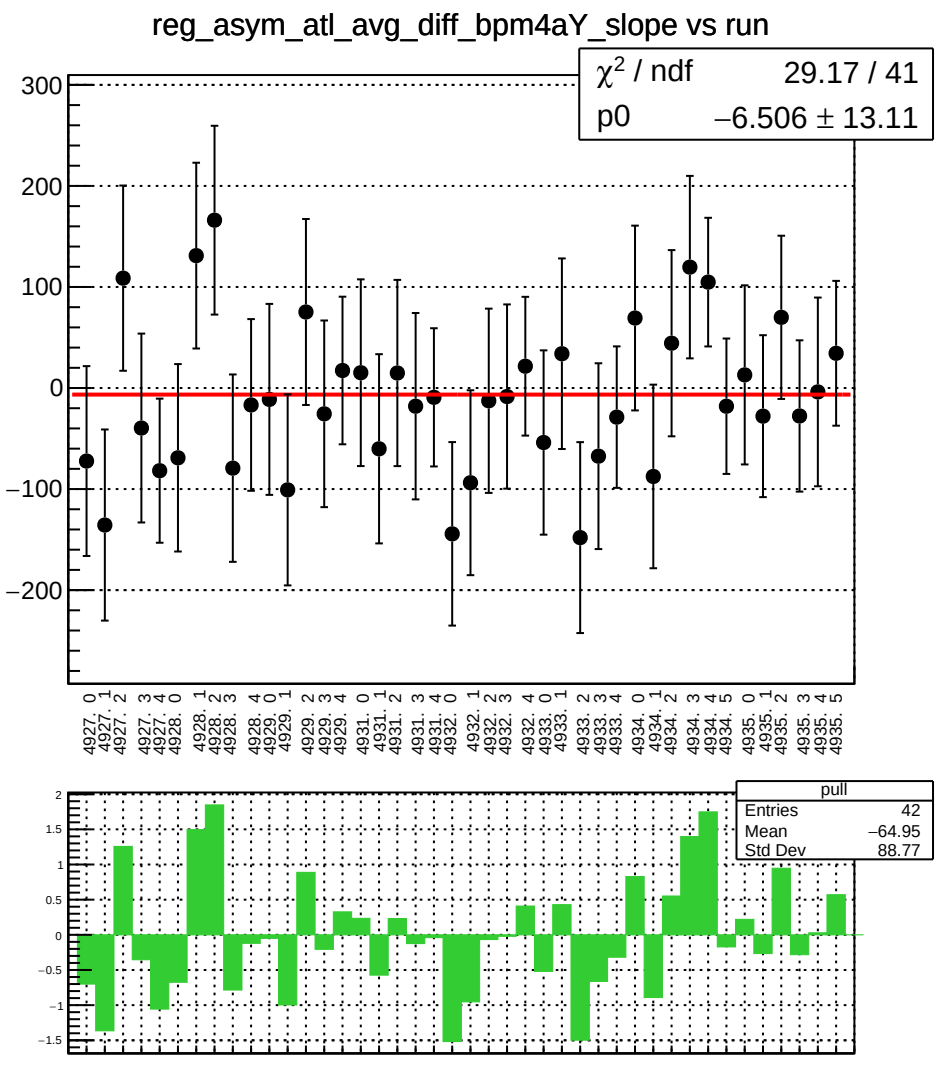

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 42.13 / 41
p0 5.505 ± 23.12
pull
Entries 42
Mean −65.41
Std Dev 88.5

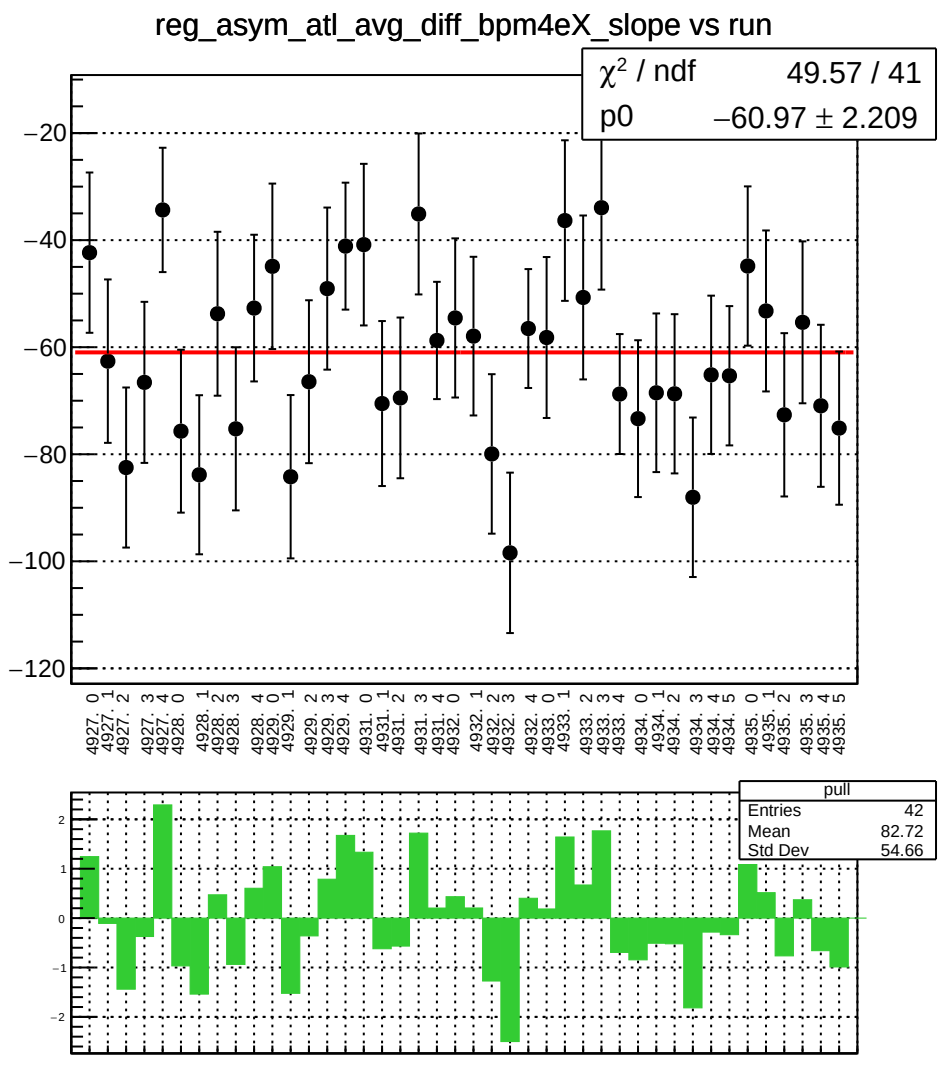

pull1D
Entries 42
Mean 0.02905
Std Dev 1.001

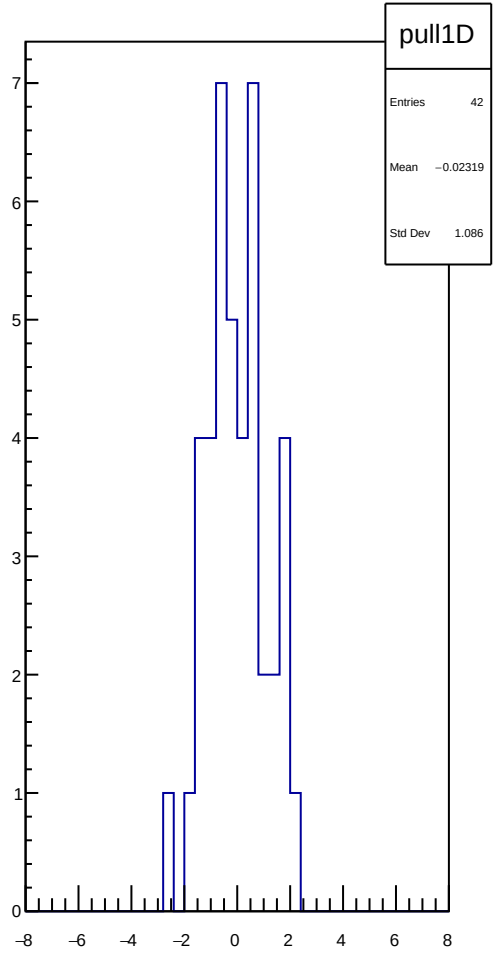

reg_asym_atl2_diff_bpm11X_slope vs run
χ² / ndf 49.32 / 41
p0 −20.67 ± 5.512
100
50
0
−50
−100
−150
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 197.7
Std Dev 174.6
pull1D
Entries 42
Mean −0.01162
Std Dev 1.084

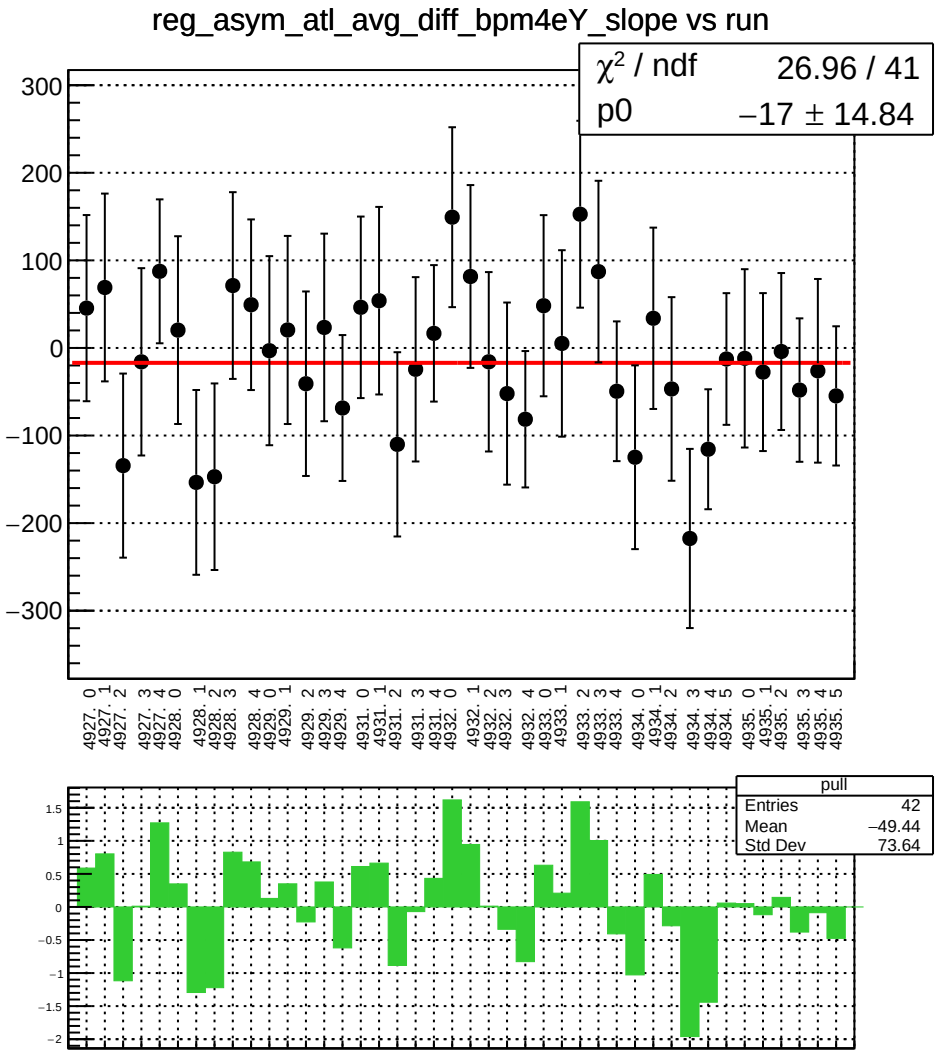

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 31.25 / 41
p0 57.57 ± 10.45
pull
Entries 42
Mean −1421
Std Dev 1443

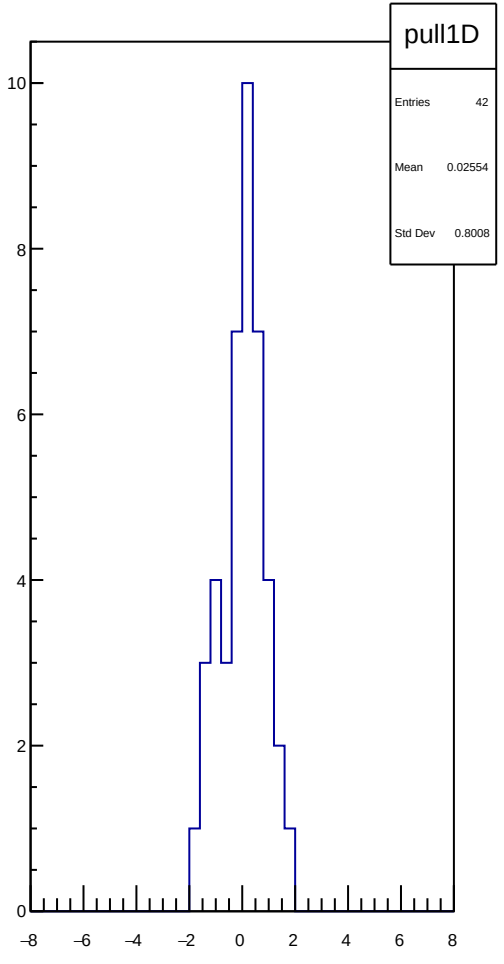

pull1D
Entries 42
Mean 0.001557
Std Dev 0.8626

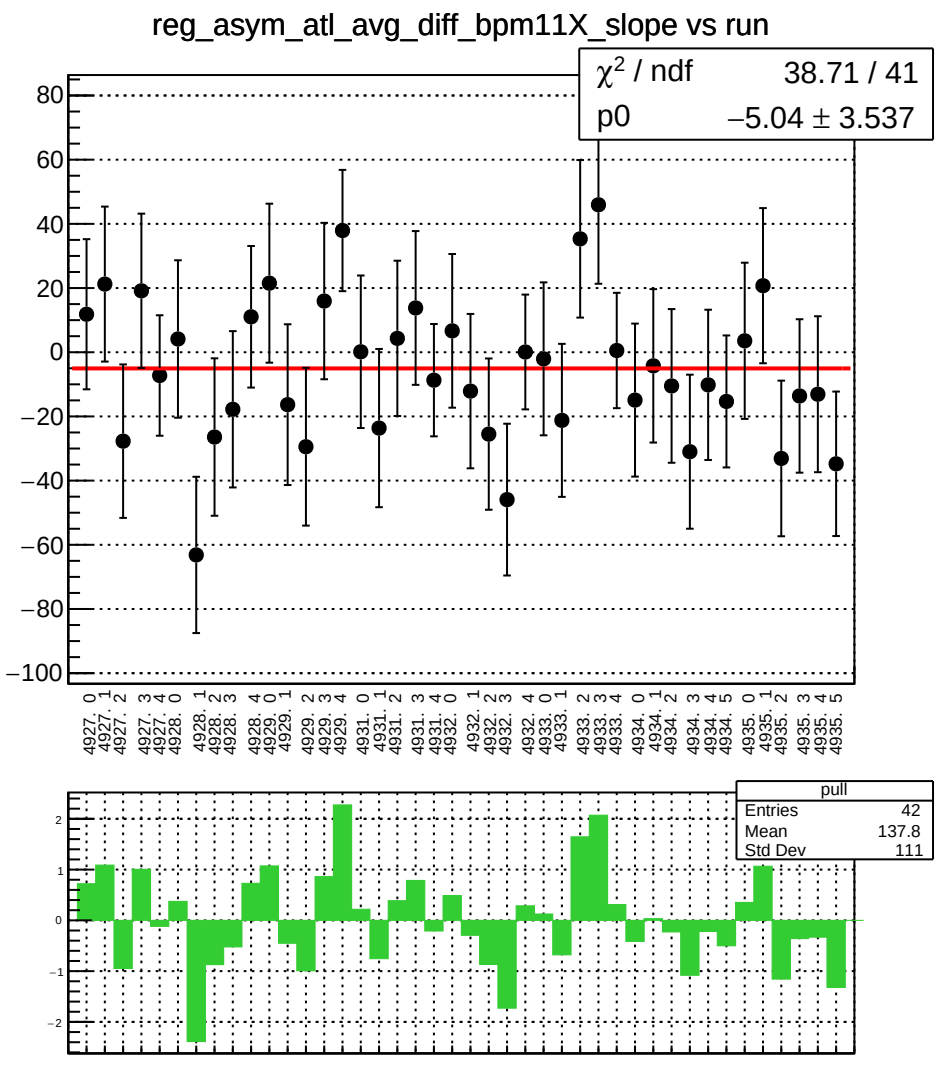

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 29.17 / 41
p0 −6.506 ± 13.11
300
200
100
0
−100
−200
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −64.95
Std Dev 88.77
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean −0.01919
Std Dev 0.8332
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

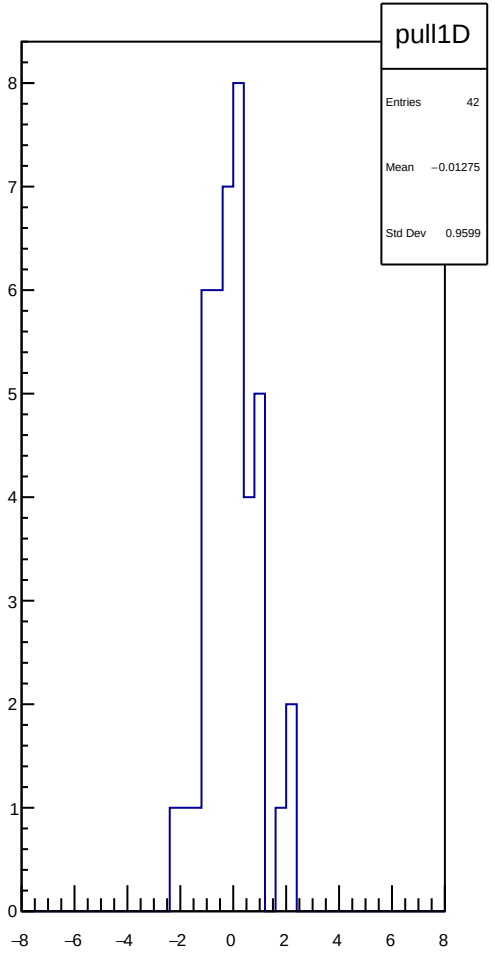

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 49.57 / 41
p0 −60.97 ± 2.209
pull
Entries 42
Mean 82.72
Std Dev 54.66

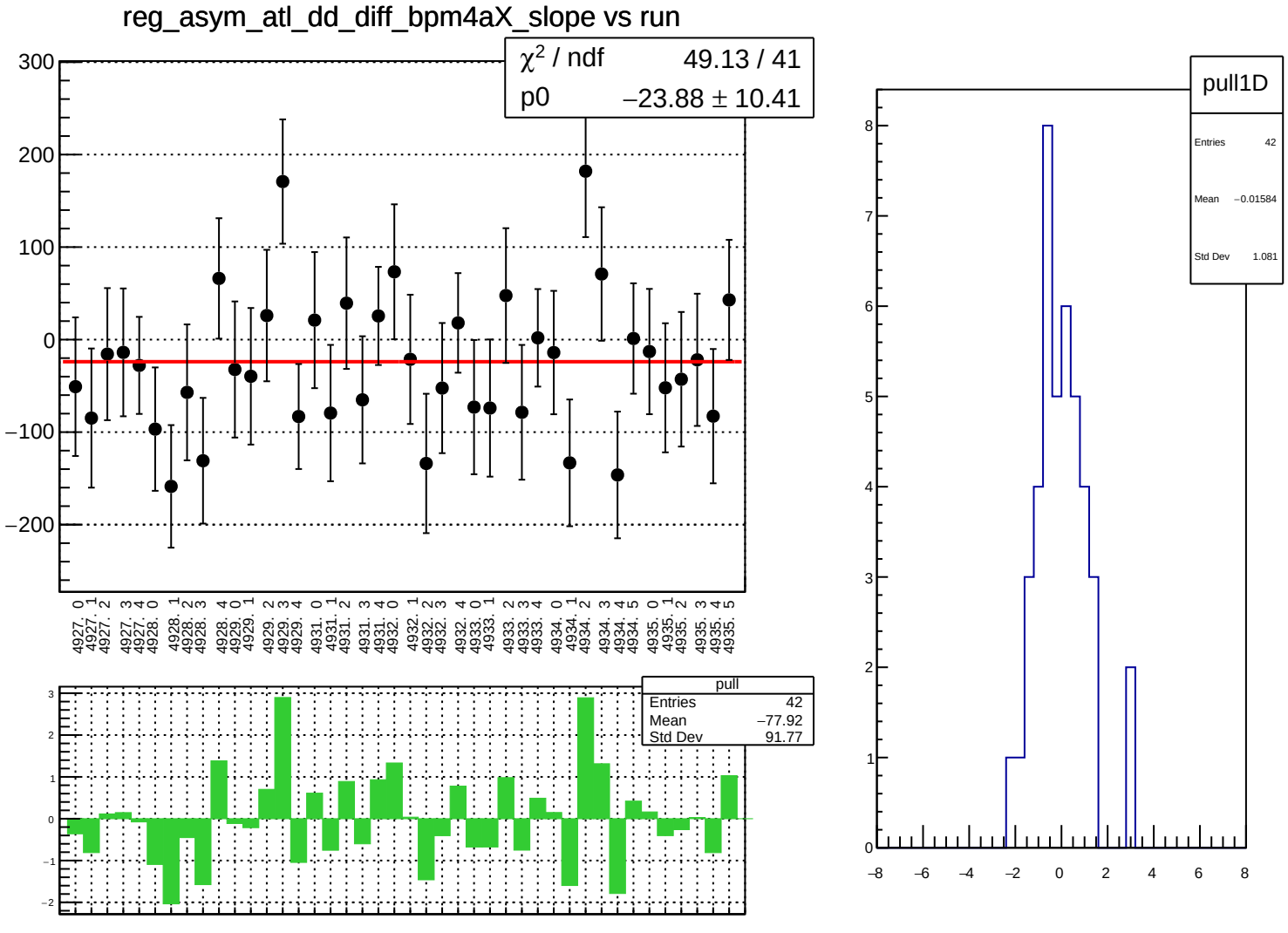

pull1D
Entries 42
Mean −0.02319
Std Dev 1.086

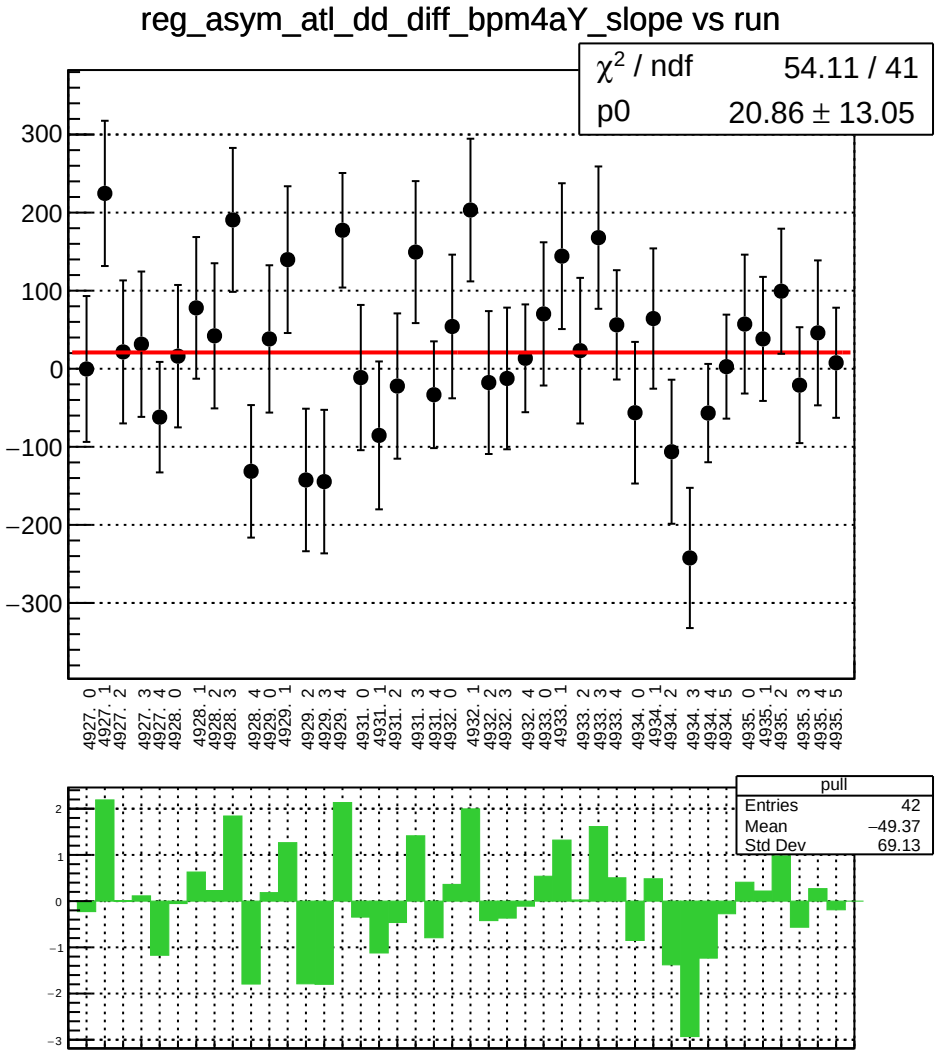

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 26.96 / 41
p0 −17 ± 14.84
pull
Entries 42
Mean −49.44
Std Dev 73.64

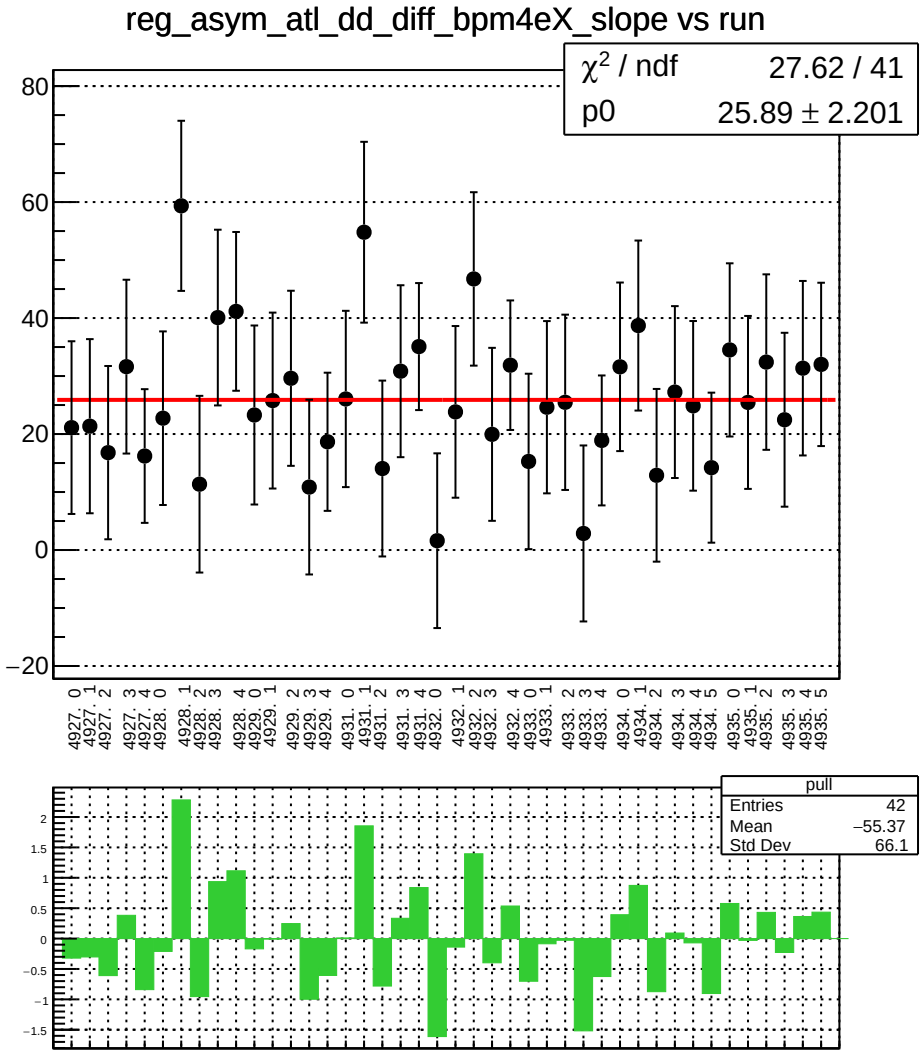

pull1D
Entries 42
Mean 0.02554
Std Dev 0.8008

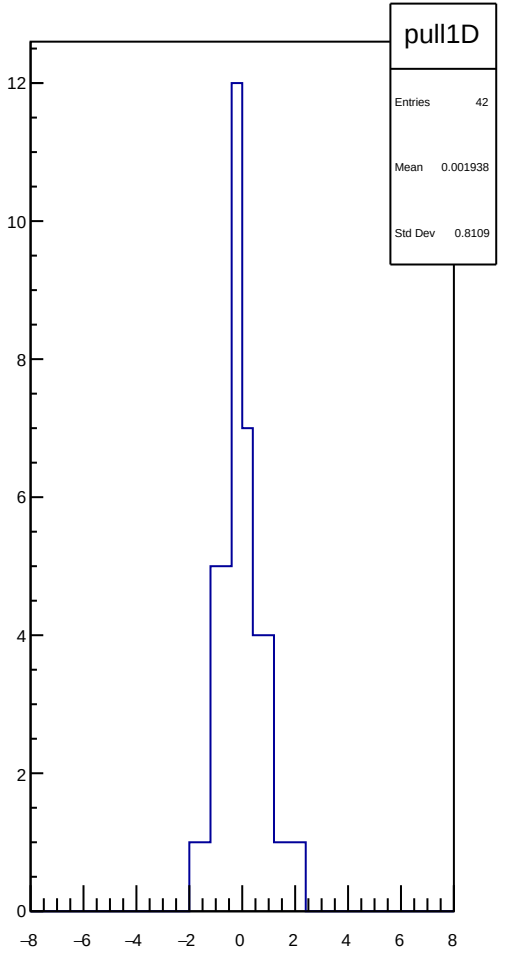

reg_asym_atl_avg_diff_bpm11X_slope vs run
χ² / ndf 38.71 / 41
p0 −5.04 ± 3.537
pull
Entries 42
Mean 137.8
Std Dev 111

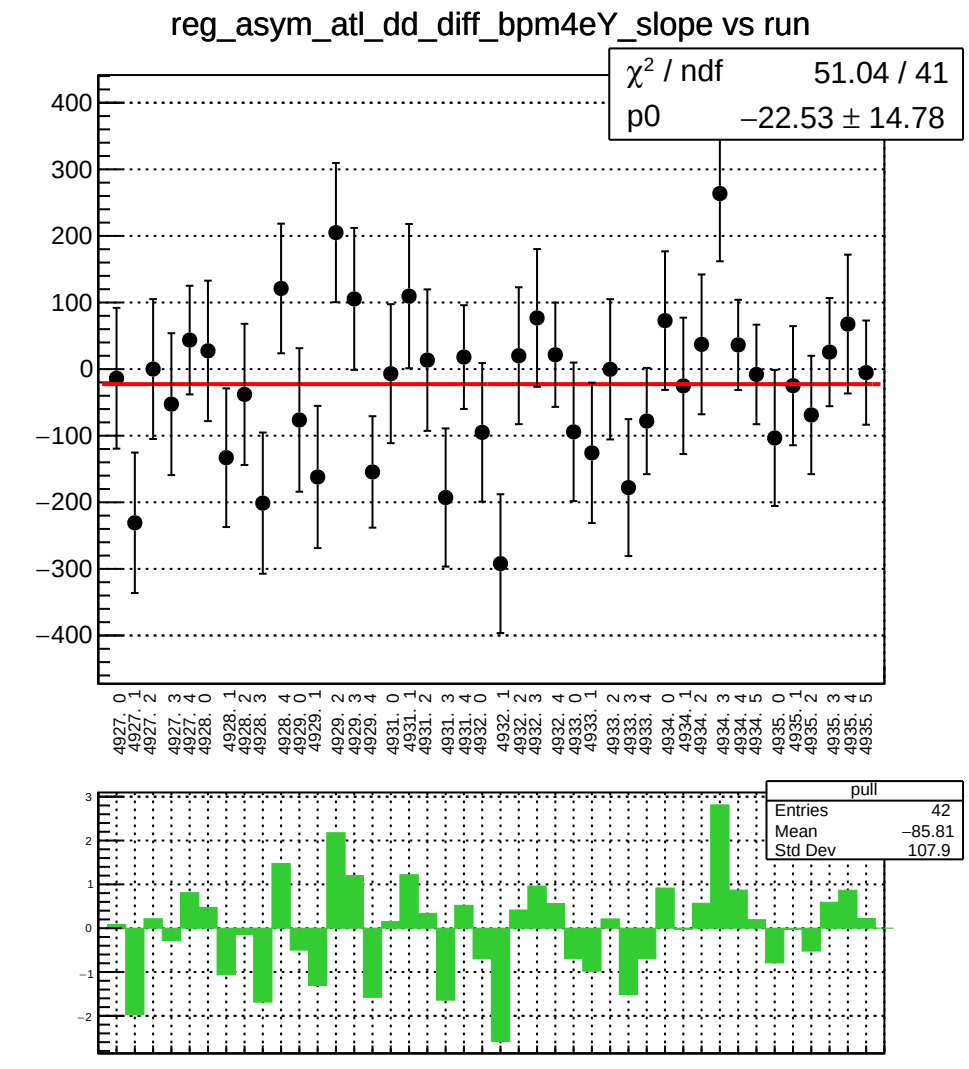

pull1D
Entries 42
Mean −0.01275
Std Dev 0.9599

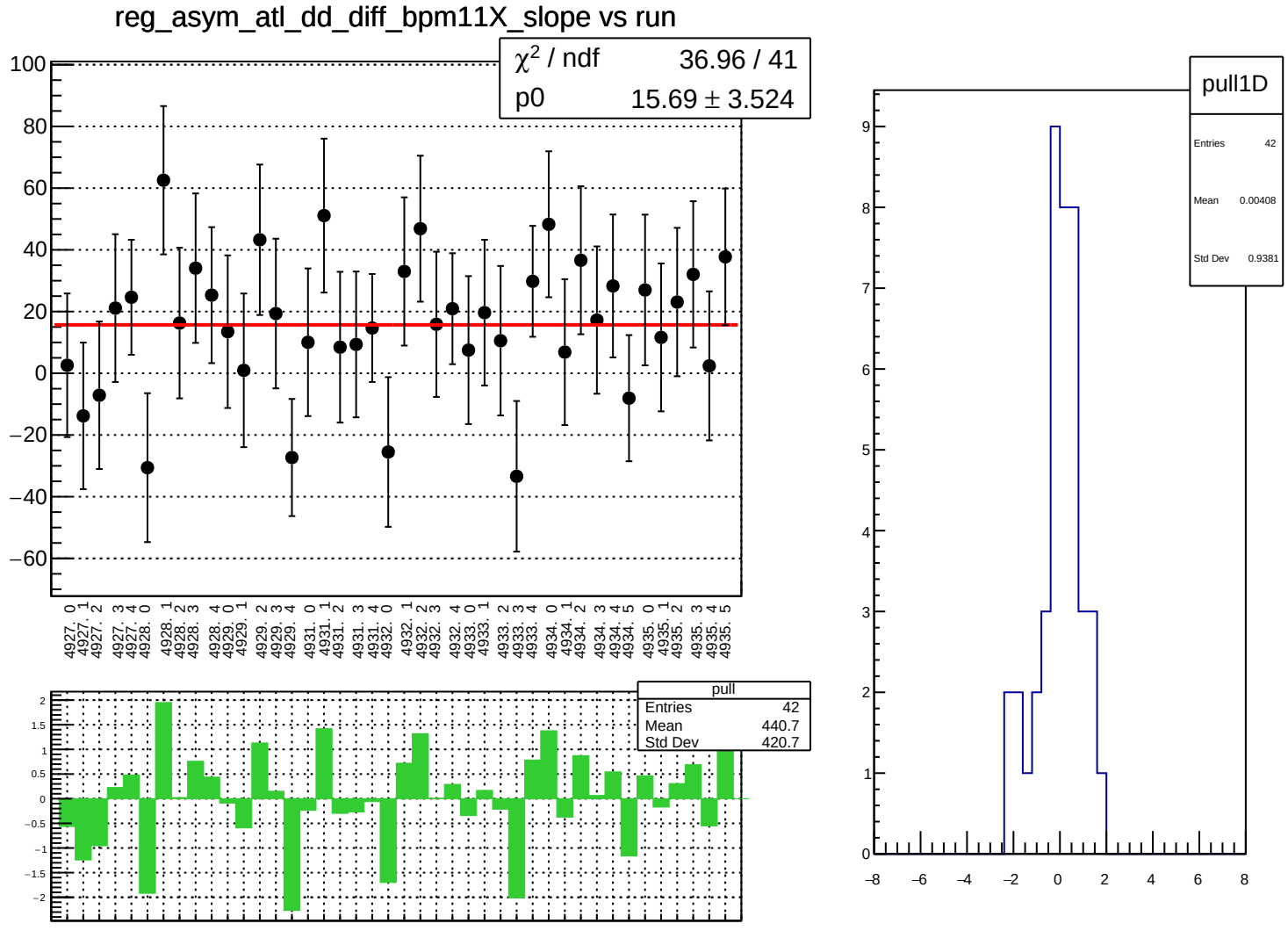

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 49.13 / 41
p0 −23.88 ± 10.41
300
200
100
0
−100
−200
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −77.92
Std Dev 91.77
3
2
1
0
−1
−2
pull1D
Entries 42
Mean −0.01584
Std Dev 1.081
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

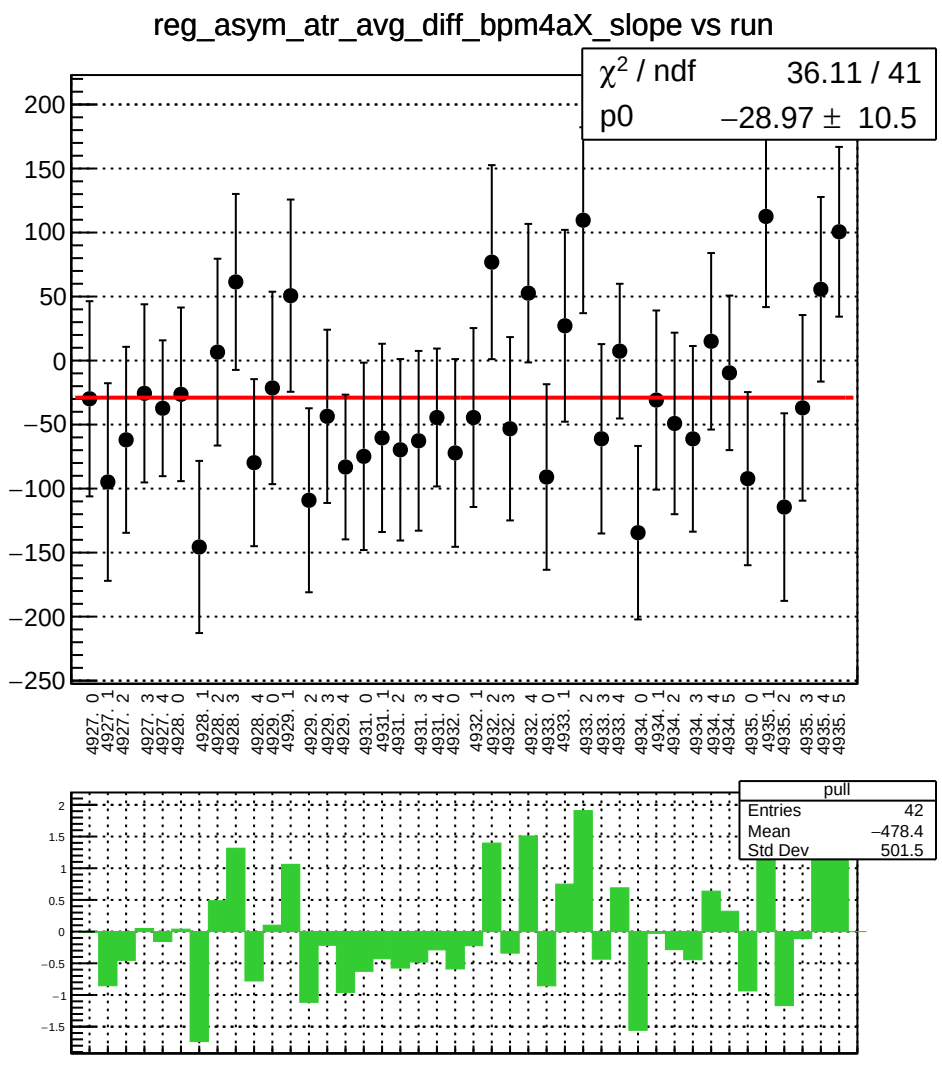

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 54.11 / 41
p0 20.86 ± 13.05
300
200
100
0
−100
−200
−300
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −49.37
Std Dev 69.13
2
1
0
−1
−2
−3
pull1D
Entries 42
Mean 0.02046
Std Dev 1.135
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

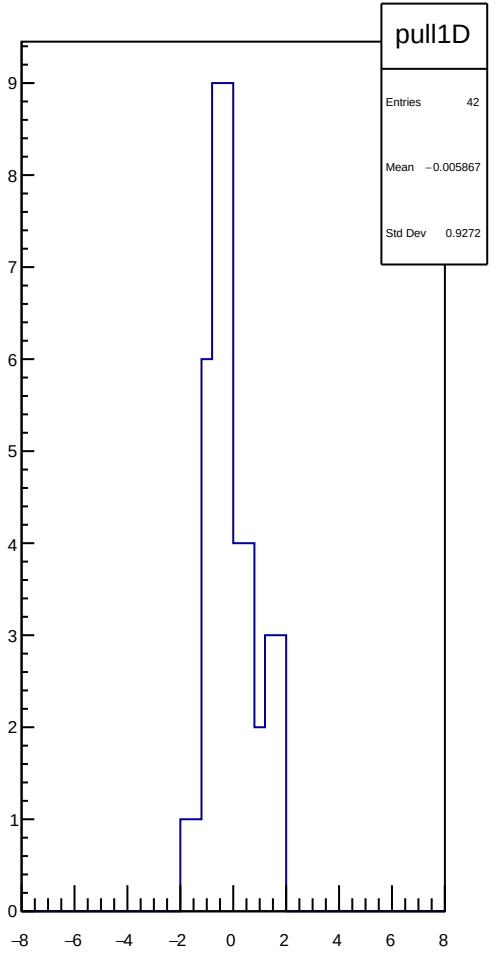

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 27.62 / 41
p0 25.89 ± 2.201
pull
Entries 42
Mean −55.37
Std Dev 66.1

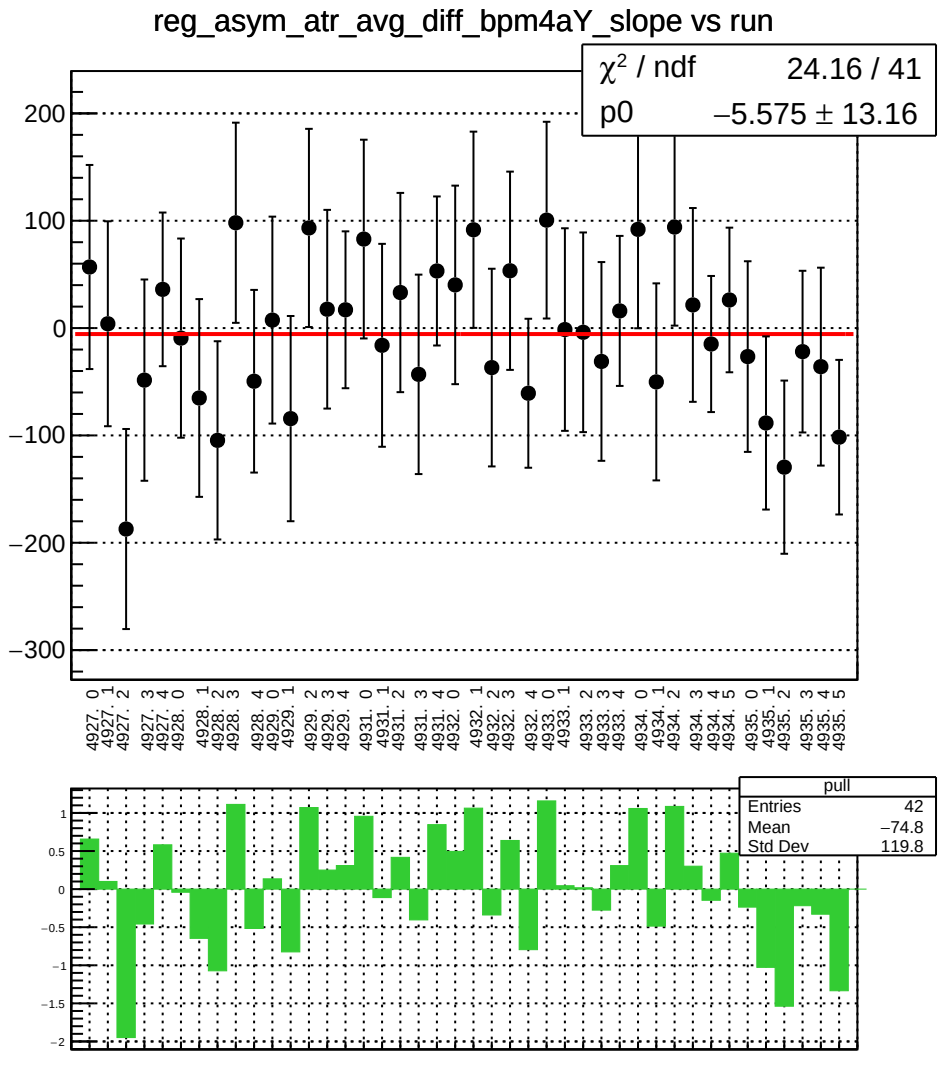

pull1D
Entries 42
Mean 0.001938
Std Dev 0.8109

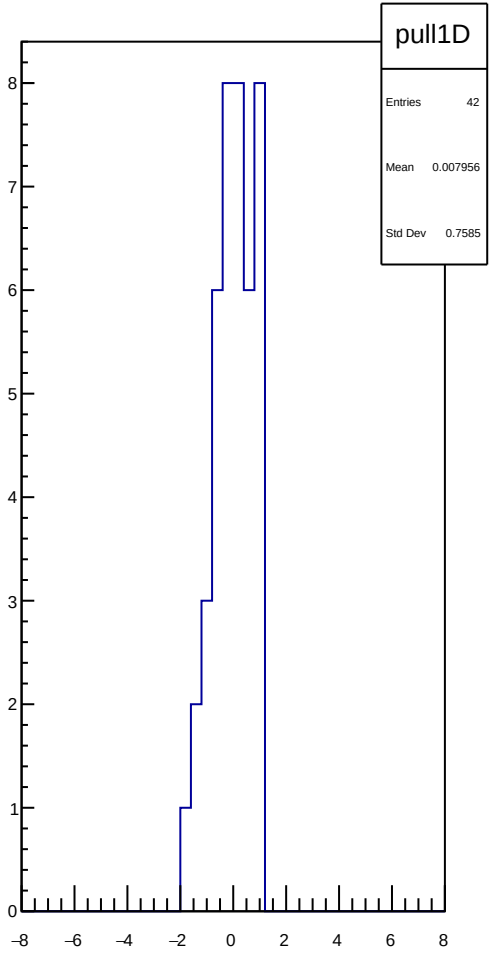

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 51.04 / 41
p0 −22.53 ± 14.78
400
300
200
100
0
−100
−200
−300
−400
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −85.81
Std Dev 107.9
3
2
1
0
−1
−2
pull1D
Entries 42
Mean −0.01997
Std Dev 1.102
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

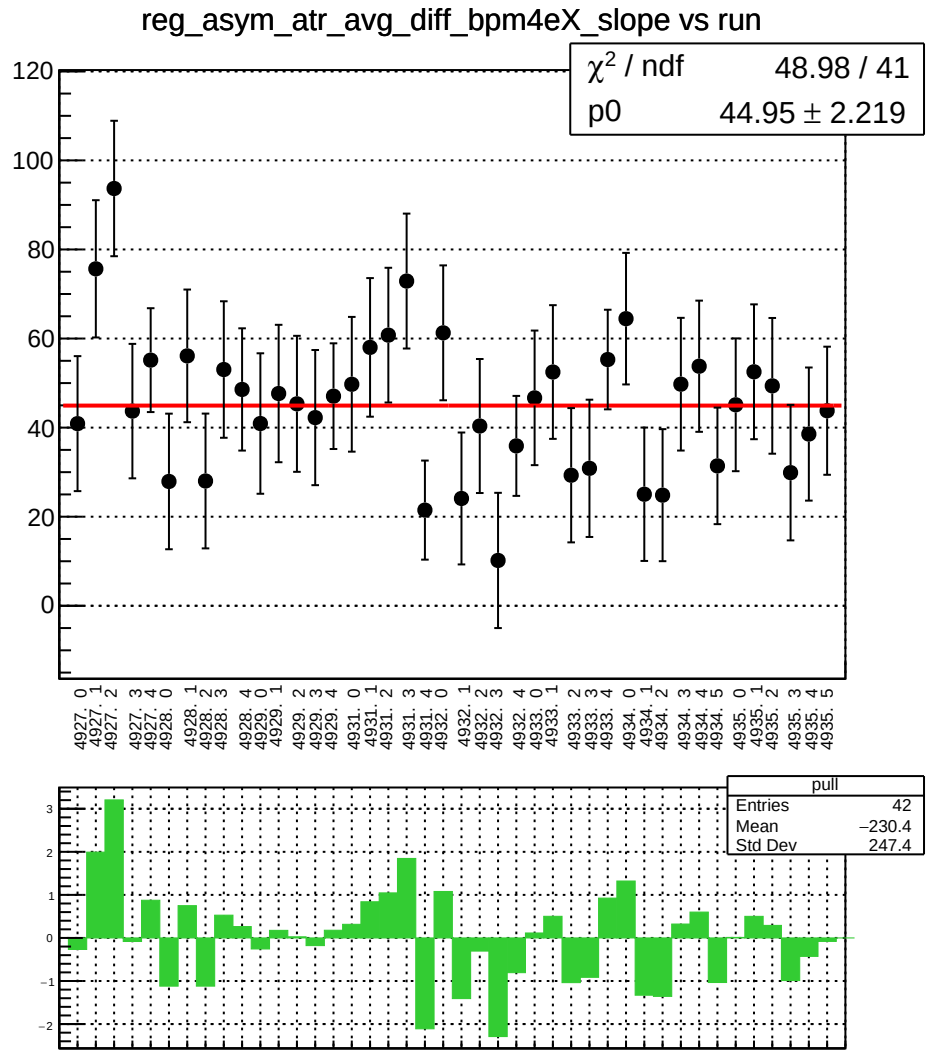

reg_asym_atl_dd_diff_bpm11X_slope vs run
χ² / ndf 36.96 / 41
p0 15.69 ± 3.524
pull
Entries 42
Mean 440.7
Std Dev 420.7
pull1D
Entries 42
Mean 0.00408
Std Dev 0.9381

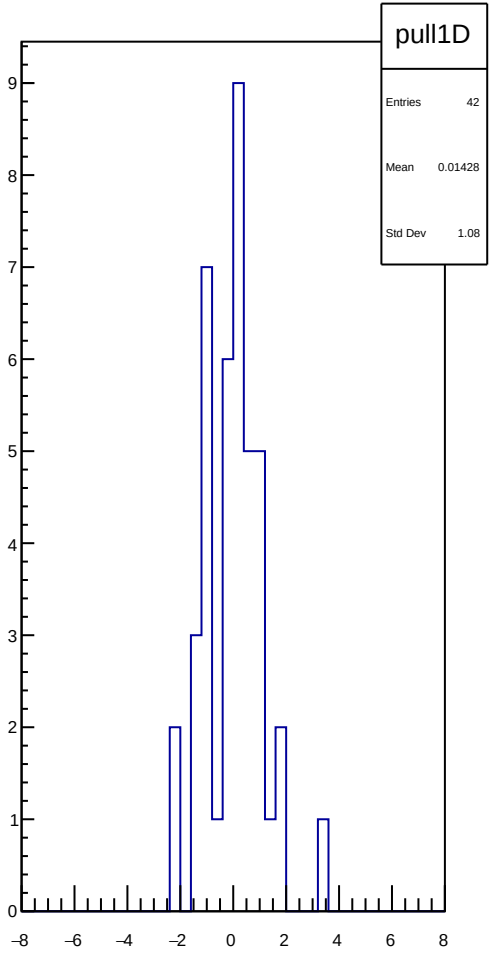

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 36.11 / 41
p0 −28.97 ± 10.5
pull
Entries 42
Mean −478.4
Std Dev 501.5

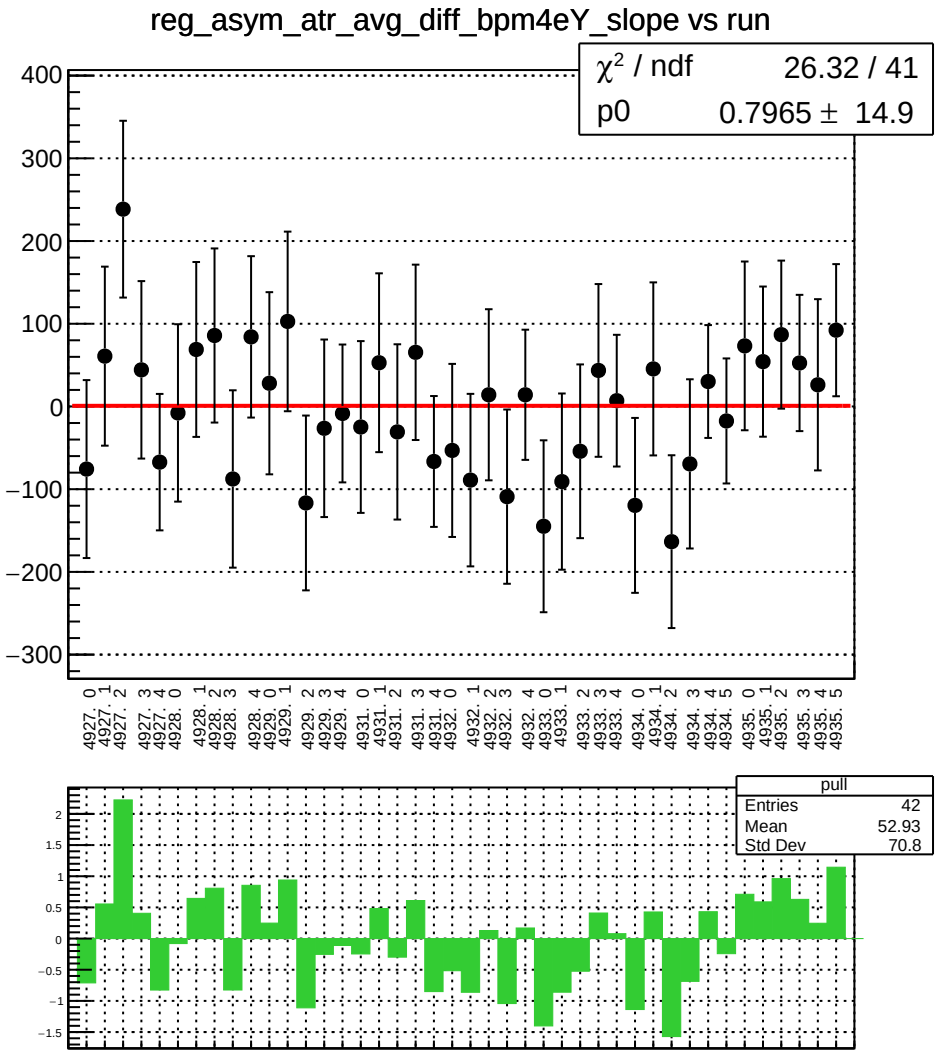

pull1D
Entries 42
Mean −0.005867
Std Dev 0.9272

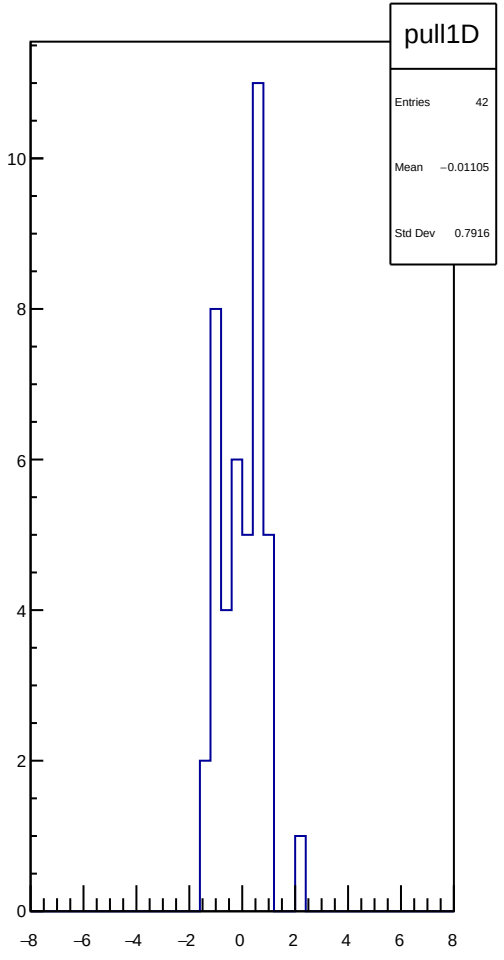

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 24.16 / 41
p0 −5.575 ± 13.16
200
100
0
−100
−200
−300
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −74.8
Std Dev 119.8
1
0.5
0
−0.5
−1
−1.5
−2

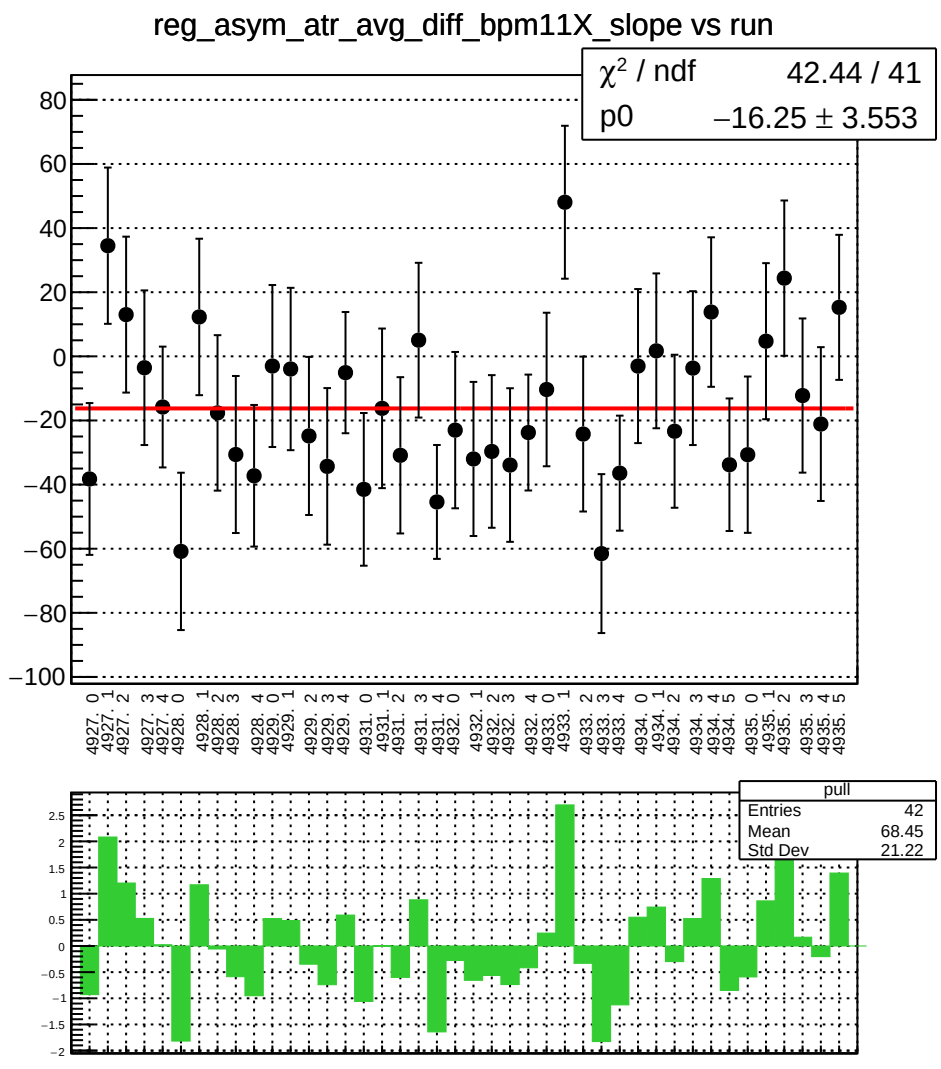

pull1D
Entries 42
Mean 0.007956
Std Dev 0.7585
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

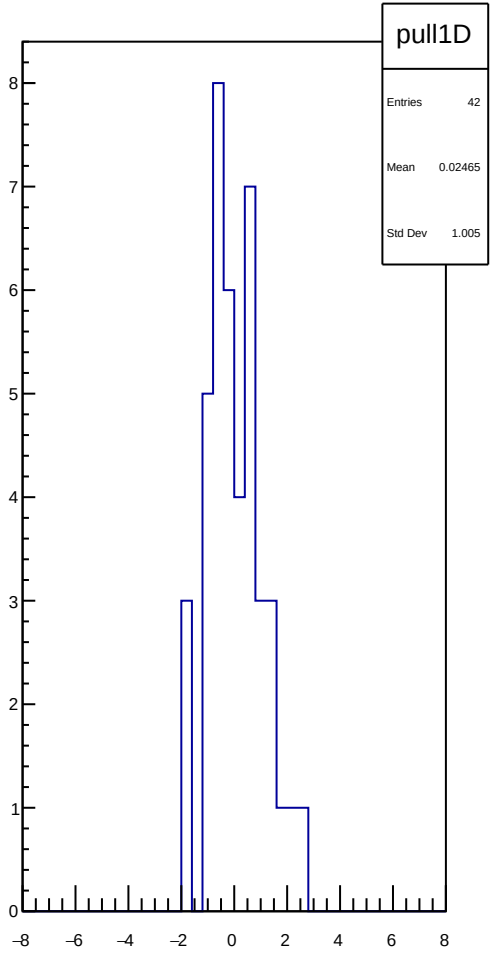

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 48.98 / 41
p0 44.95 ± 2.219
pull
Entries 42
Mean −230.4
Std Dev 247.4

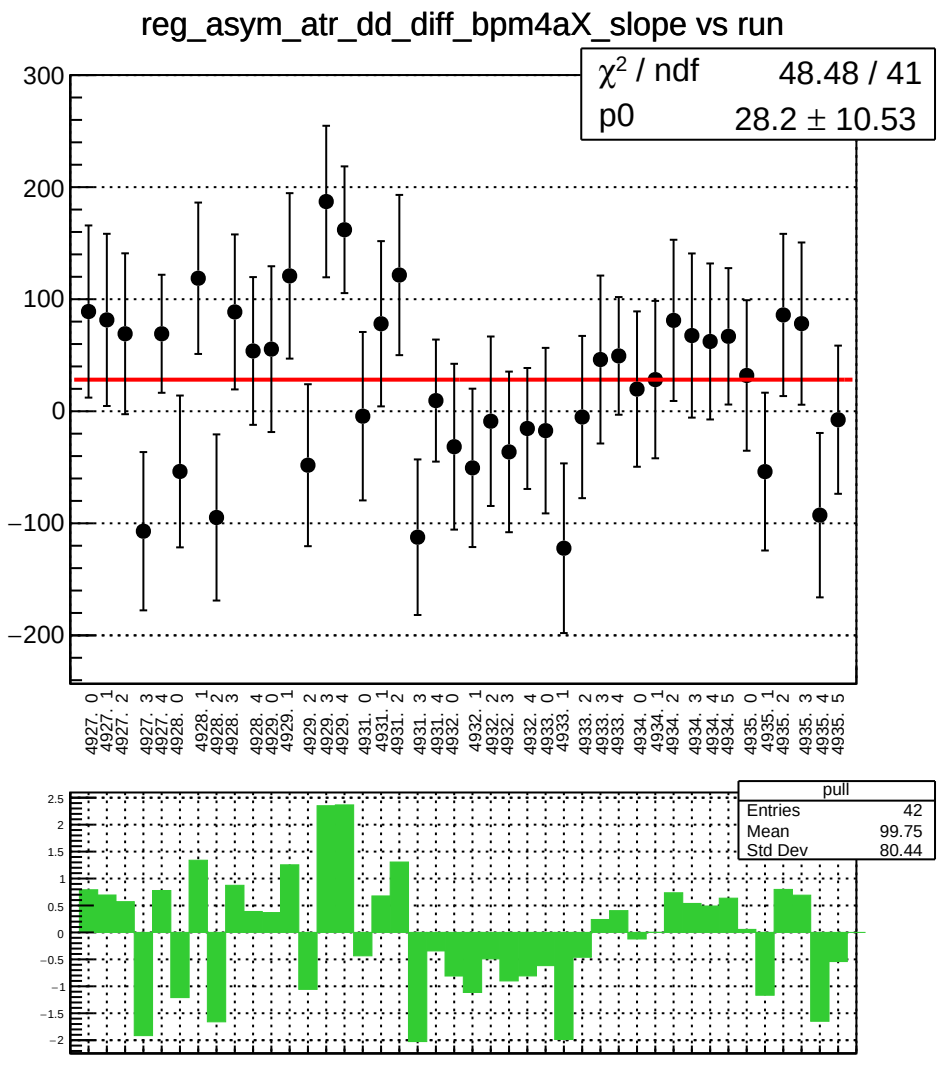

pull1D
Entries 42
Mean 0.01428
Std Dev 1.08

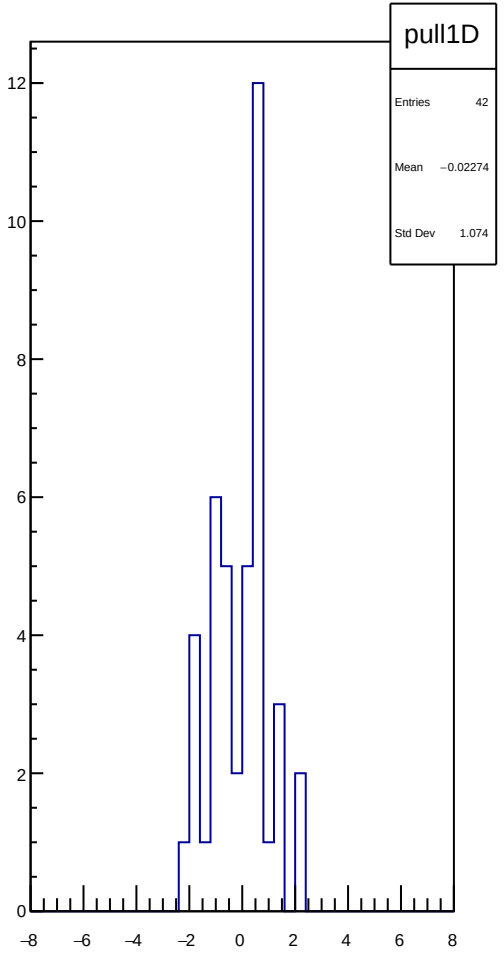

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 26.32 / 41
p0 0.7965 ± 14.9
pull
Entries 42
Mean 52.93
Std Dev 70.8

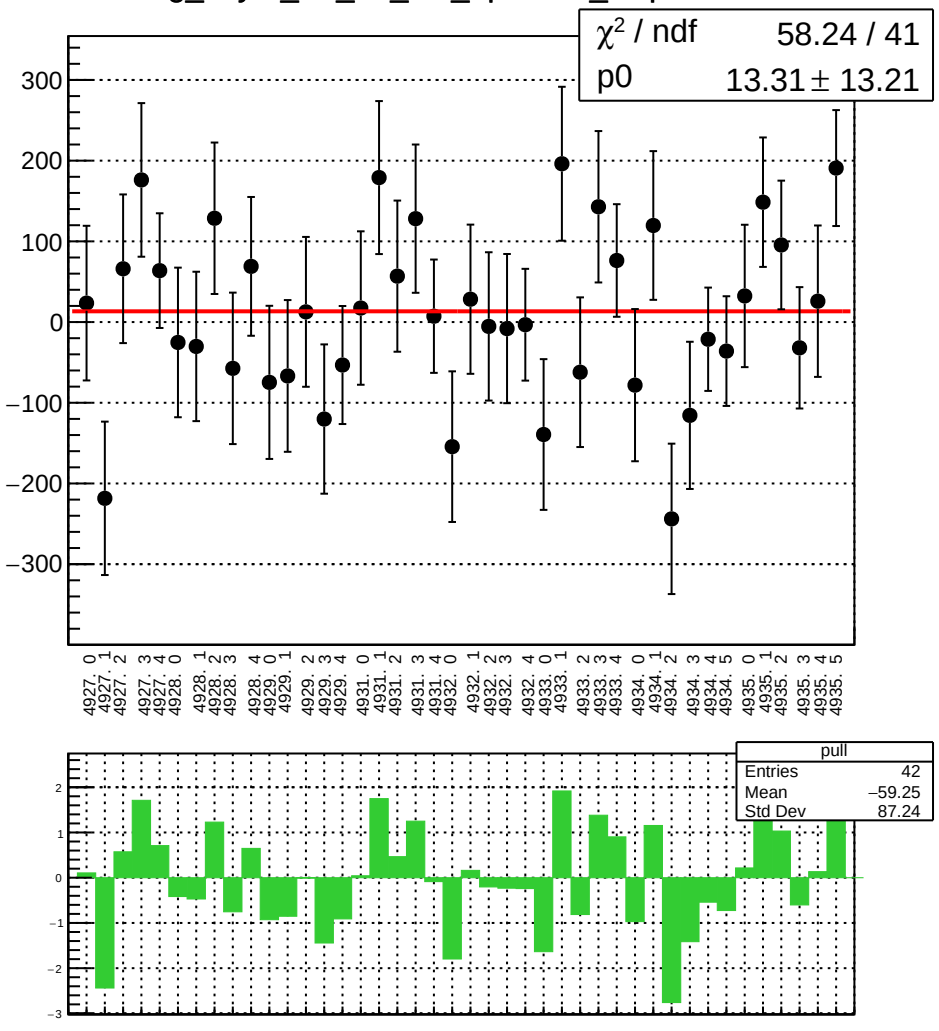

pull1D
Entries 42
Mean −0.01105
Std Dev 0.7916

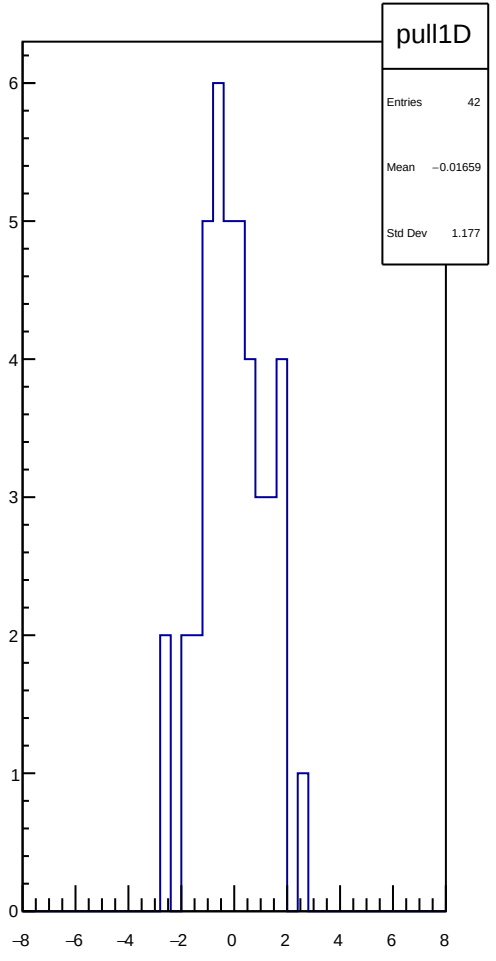

reg_asym_atr_avg_diff_bpm11X_slope vs run
χ² / ndf 42.44 / 41
p0 −16.25 ± 3.553
pull
Entries 42
Mean 68.45
Std Dev 21.22

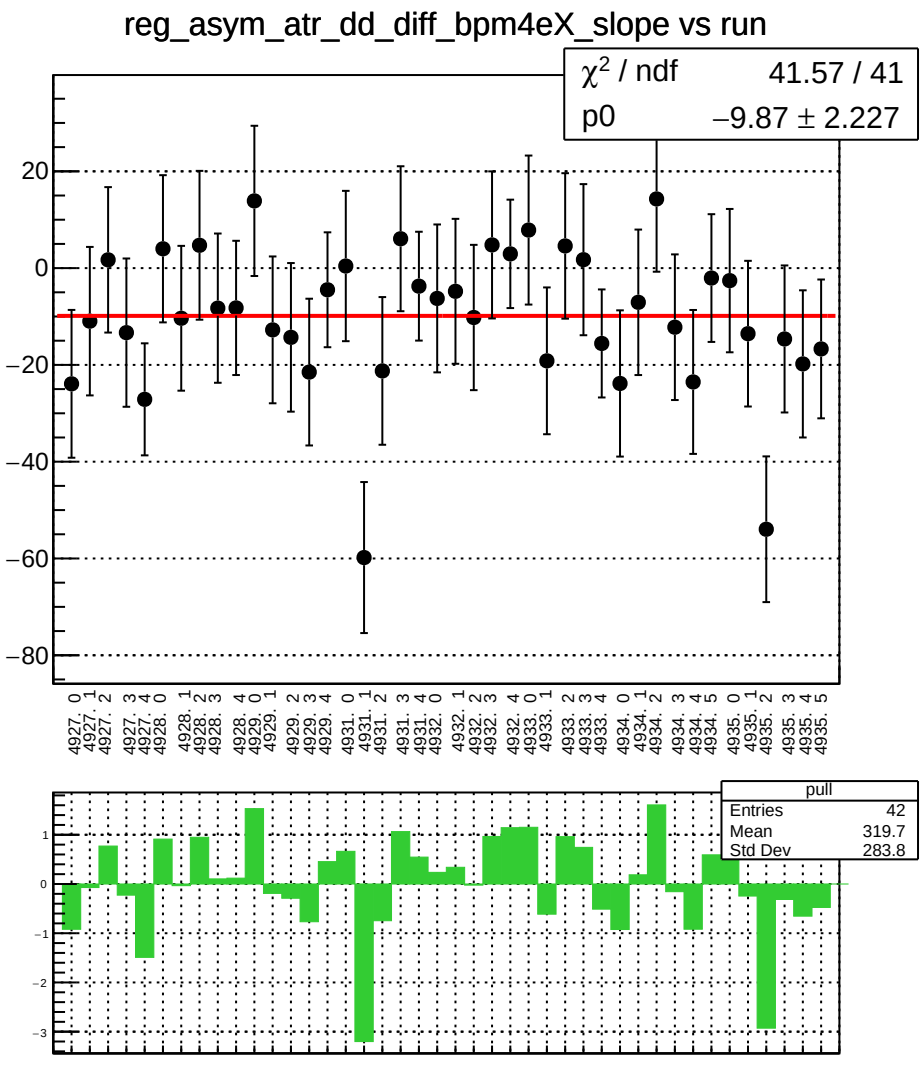

pull1D
Entries 42
Mean 0.02465
Std Dev 1.005

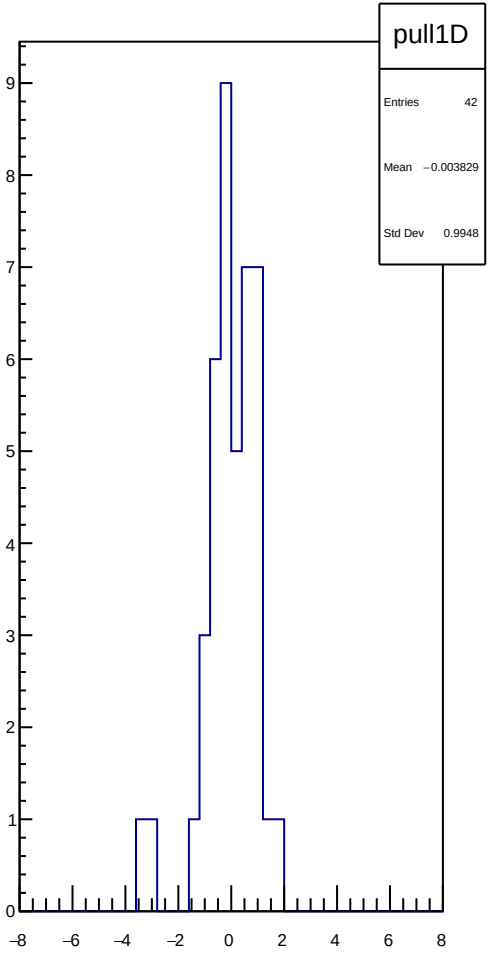

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 48.48 / 41
p0 28.2 ± 10.53
pull
Entries 42
Mean 99.75
Std Dev 80.44

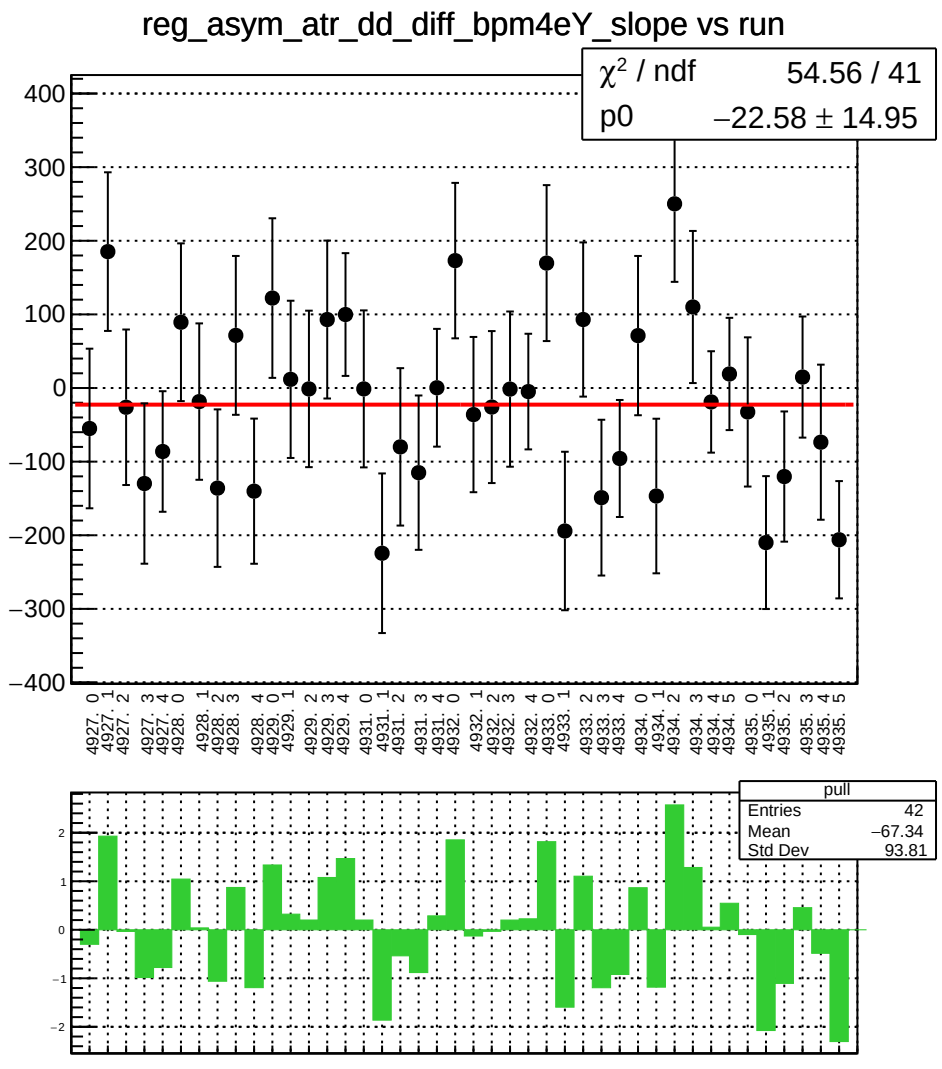

pull1D
Entries 42
Mean −0.02274
Std Dev 1.074

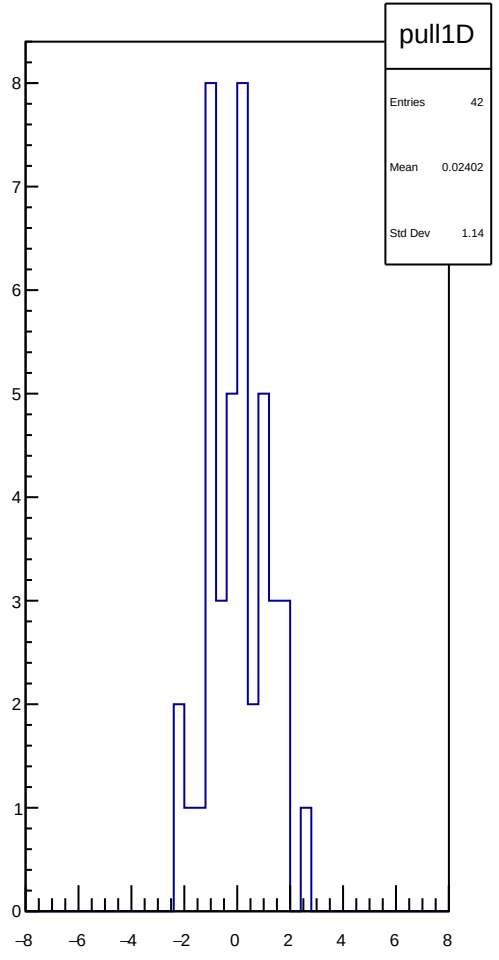

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 58.24 / 41
p0 13.31 ± 13.21
pull
Entries 42
Mean −59.25
Std Dev 87.24

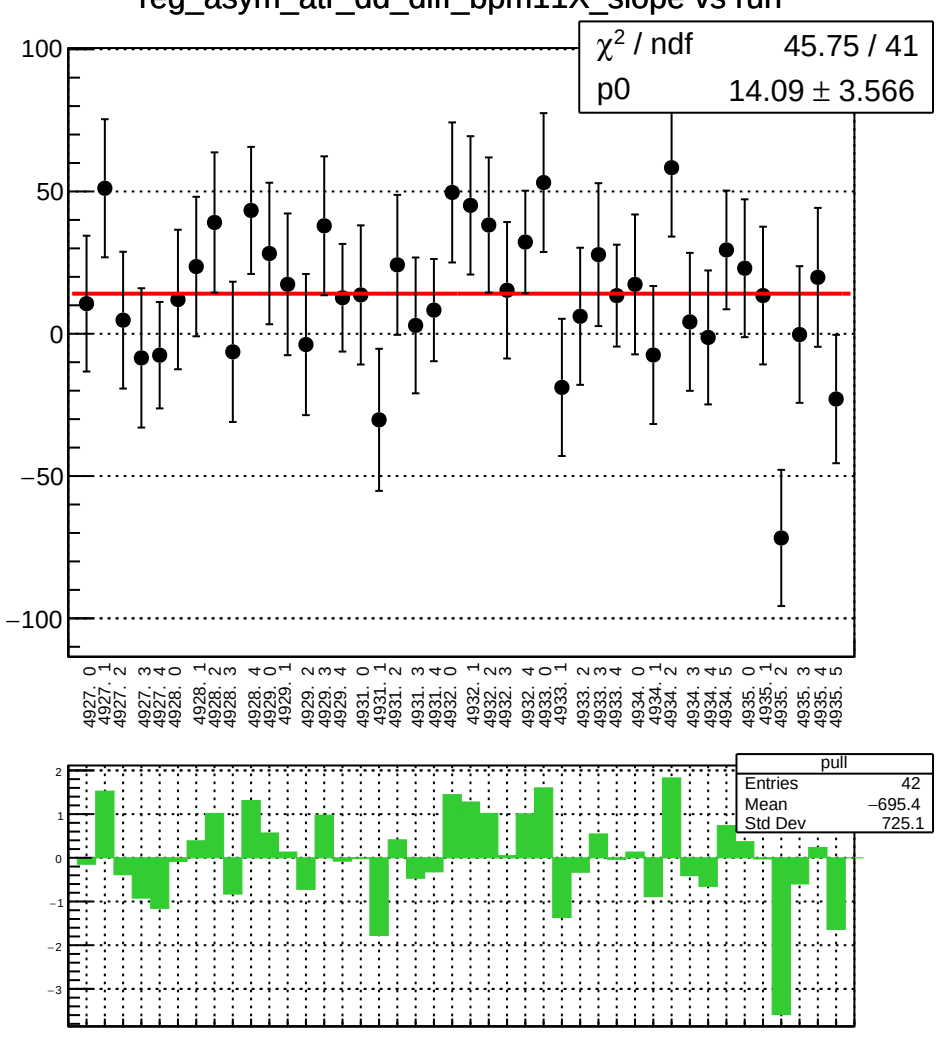

pull1D
Entries 42
Mean −0.01659
Std Dev 1.177

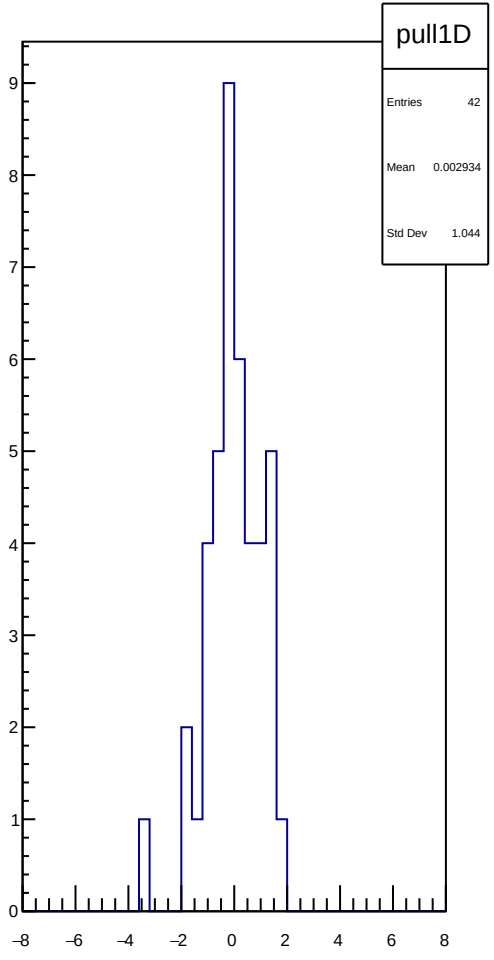

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 41.57 / 41
p0 −9.87 ± 2.227
20
0
−20
−40
−60
−80
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 319.7
Std Dev 283.8
1
0
−1
−2
−3

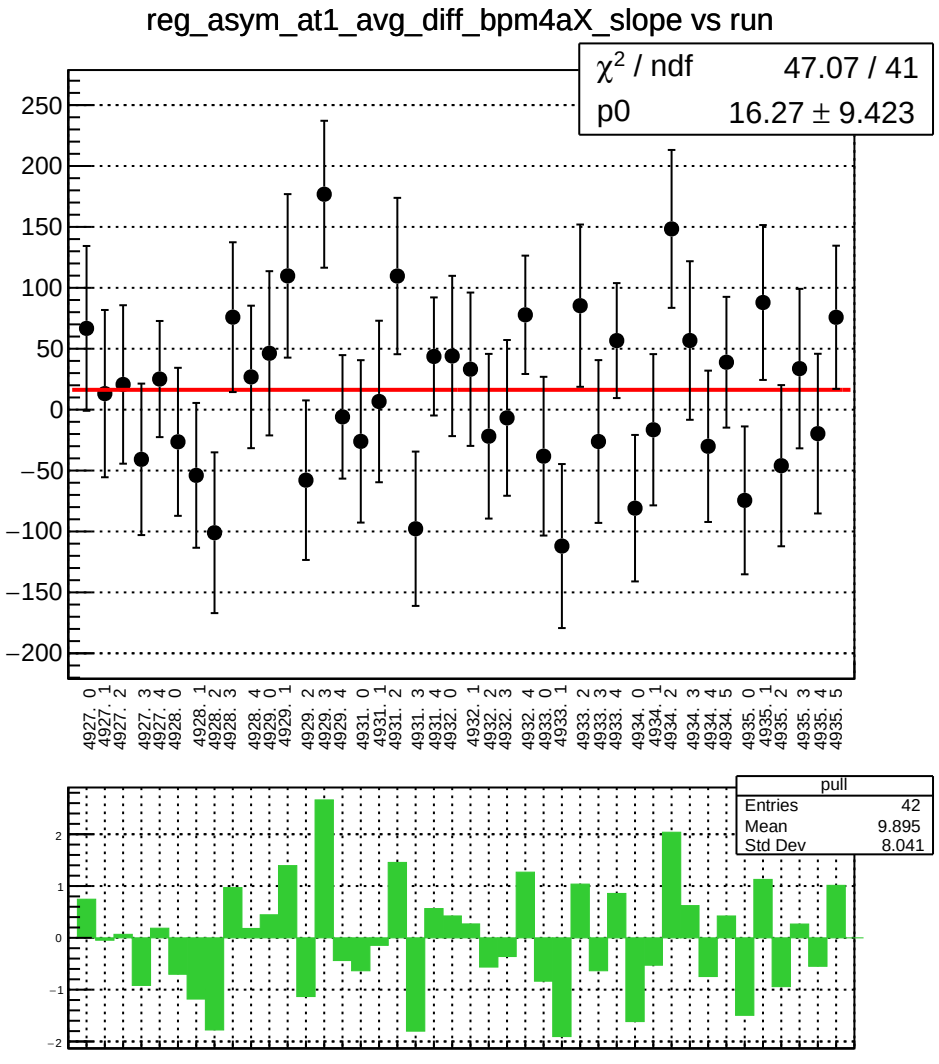

pull1D
Entries 42
Mean −0.003829
Std Dev 0.9948
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

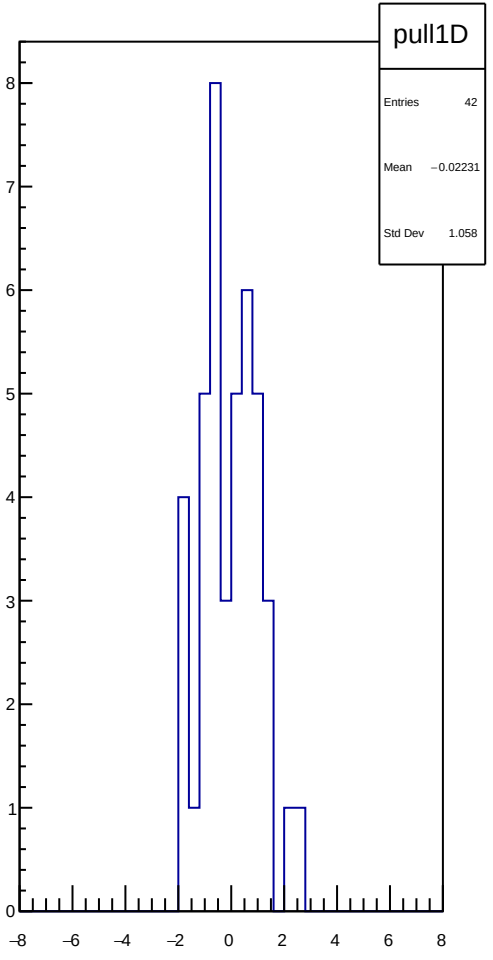

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 54.56 / 41
p0 −22.58 ± 14.95
pull
Entries 42
Mean −67.34
Std Dev 93.81

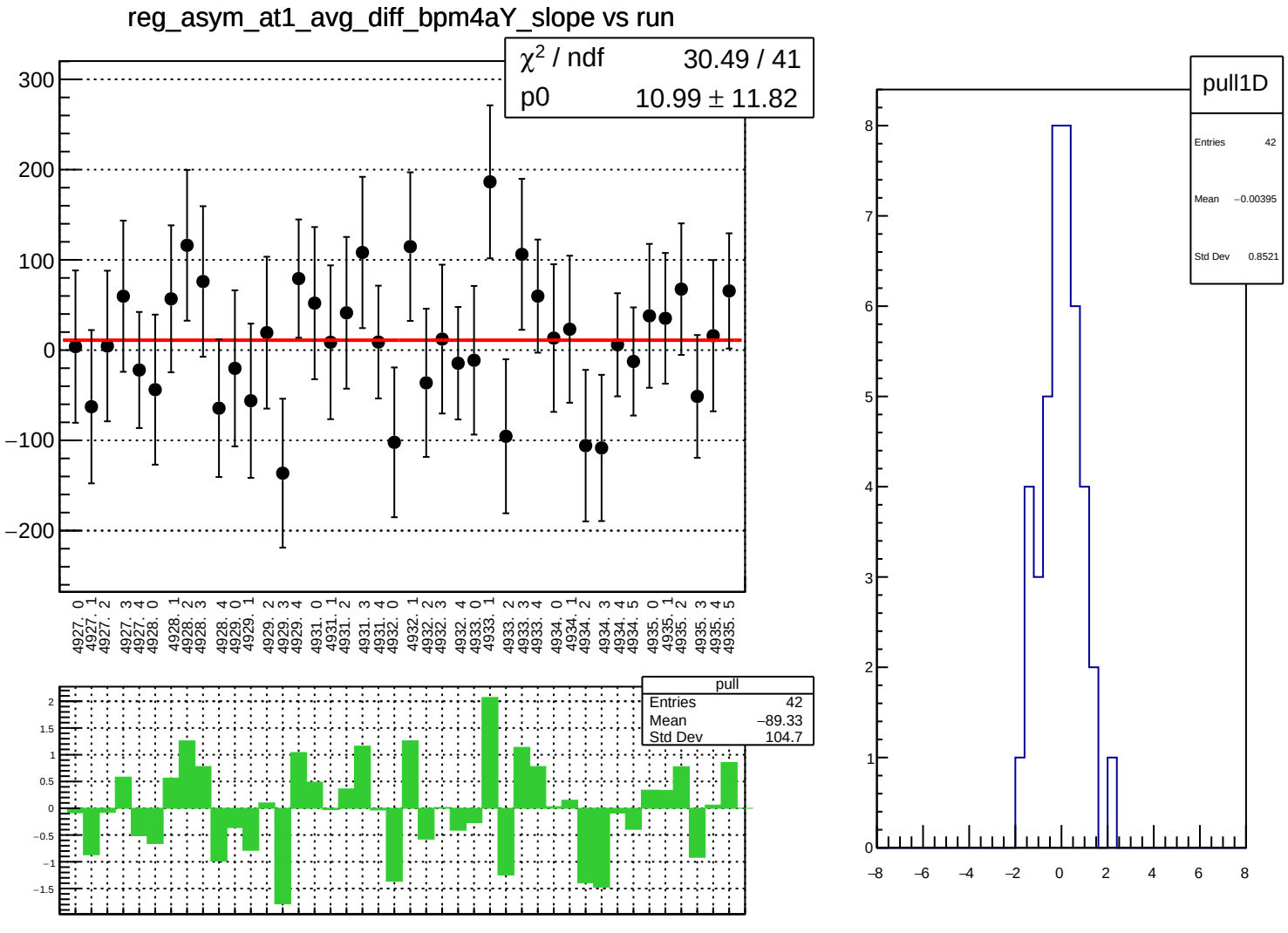

pull1D
Entries 42
Mean 0.02402
Std Dev 1.14

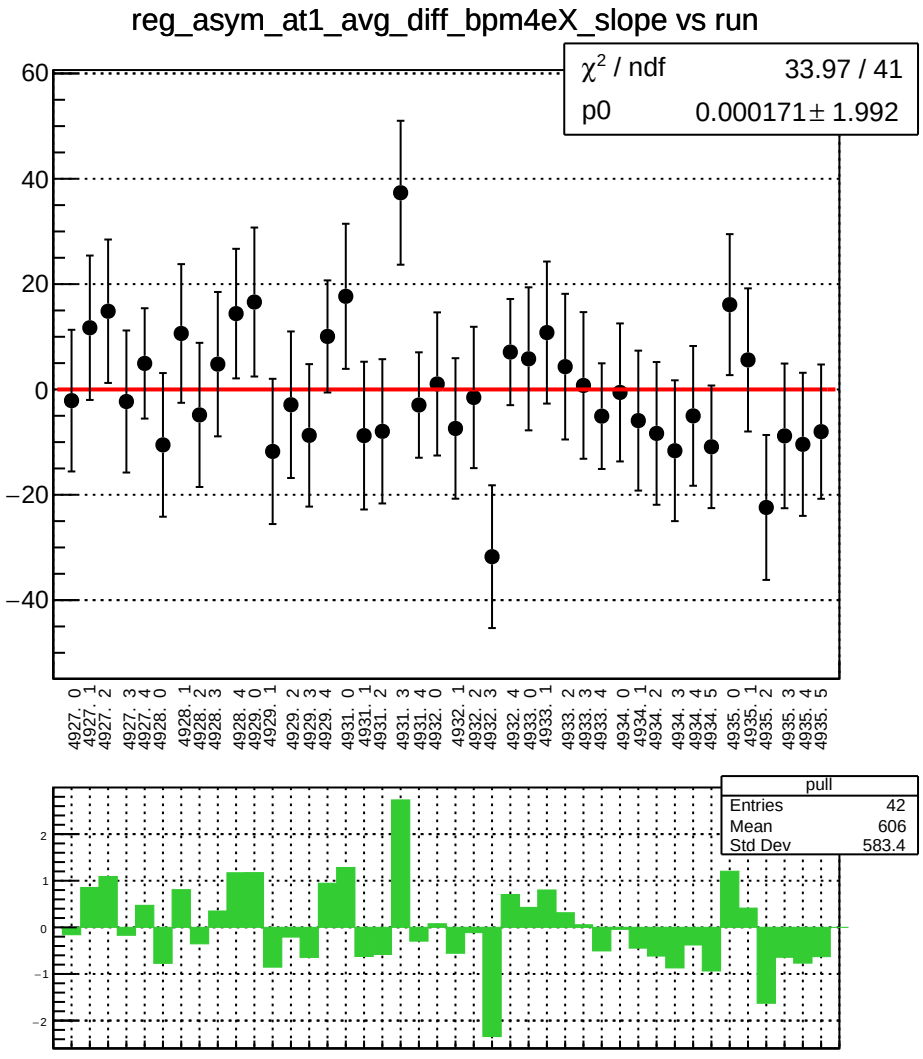

reg_asym_atr_dd_diff_bpm11X_slope vs run
χ² / ndf 45.75 / 41
p0 14.09 ± 3.566
100
50
0
−50
−100
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −695.4
Std Dev 725.1
2
1
0
−1
−2
−3

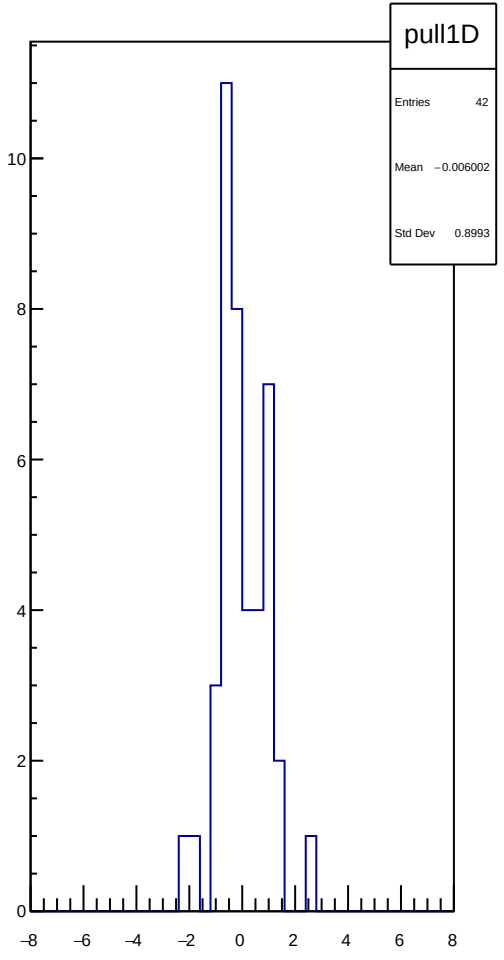

pull1D
Entries 42
Mean 0.002934
Std Dev 1.044
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

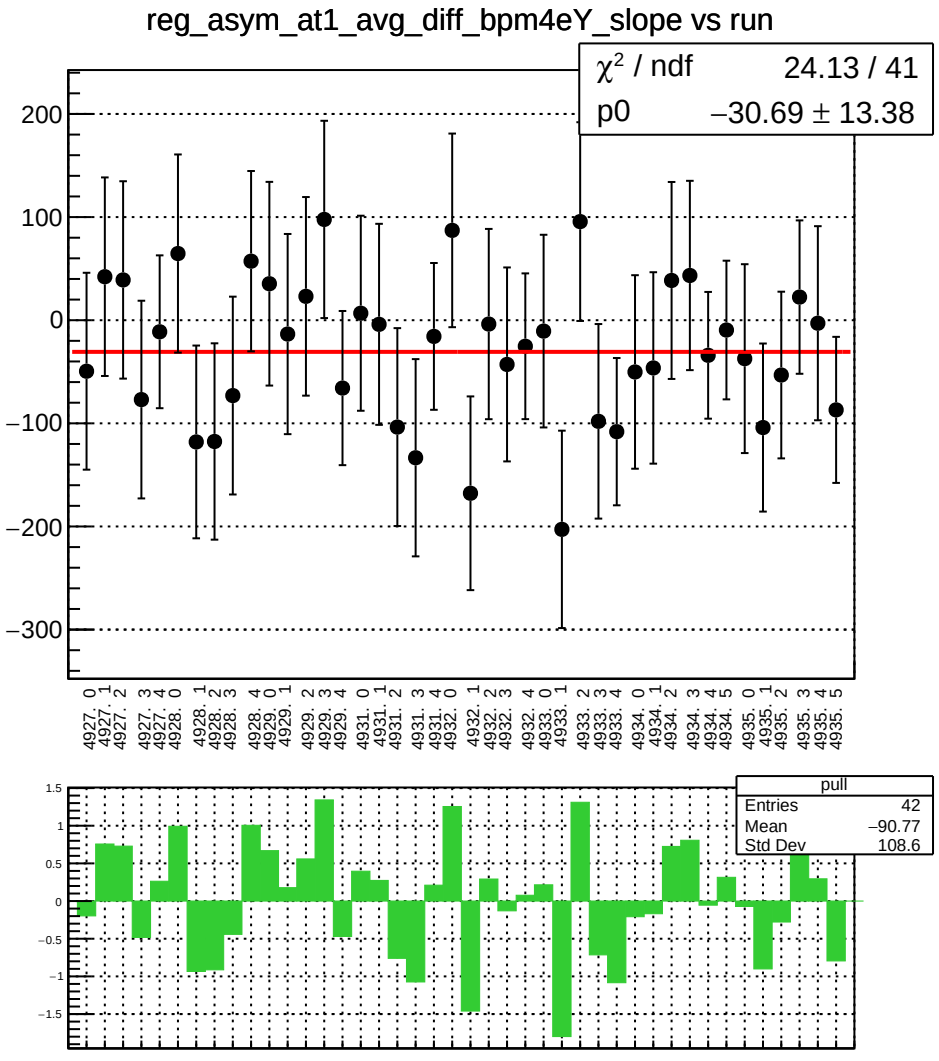

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 47.07 / 41
p0 16.27 ± 9.423
pull
Entries 42
Mean 9.895
Std Dev 8.041

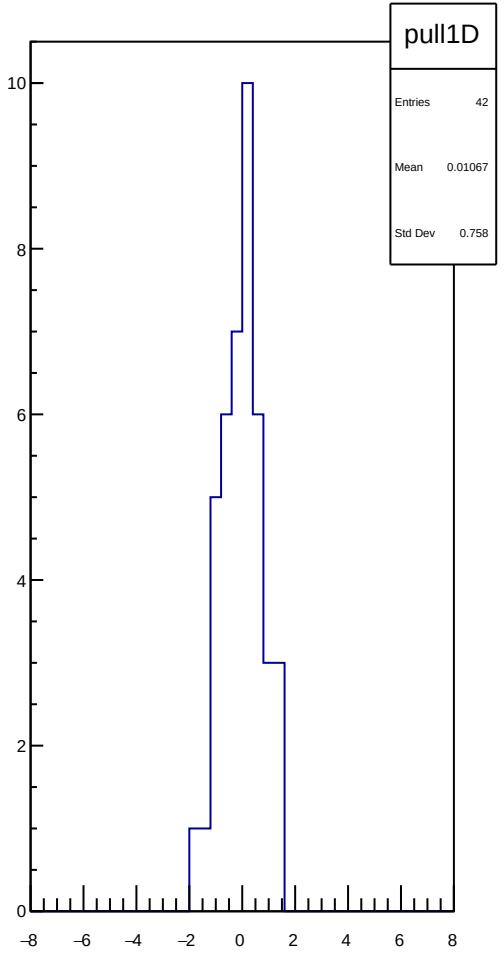

pull1D
Entries 42
Mean −0.02231
Std Dev 1.058

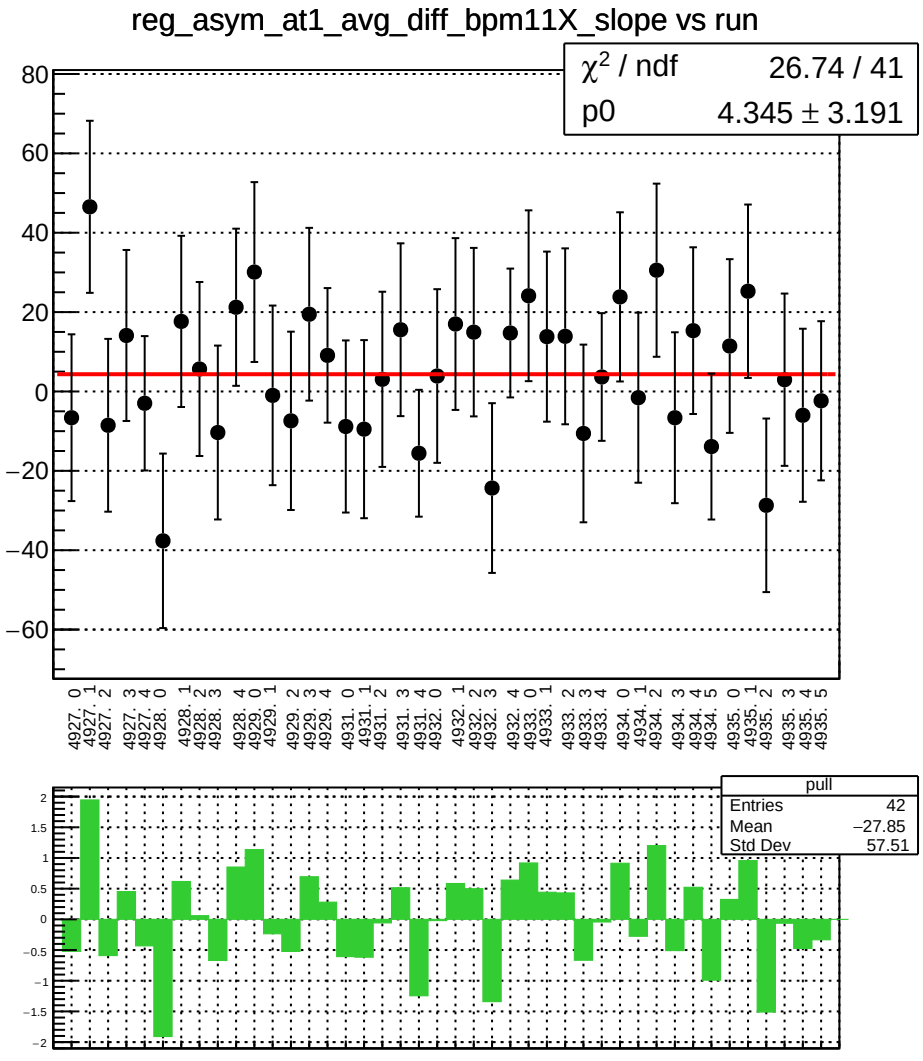

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 30.49 / 41
p0 10.99 ± 11.82
pull
Entries 42
Mean −89.33
Std Dev 104.7
pull1D
Entries 42
Mean −0.00395
Std Dev 0.8521

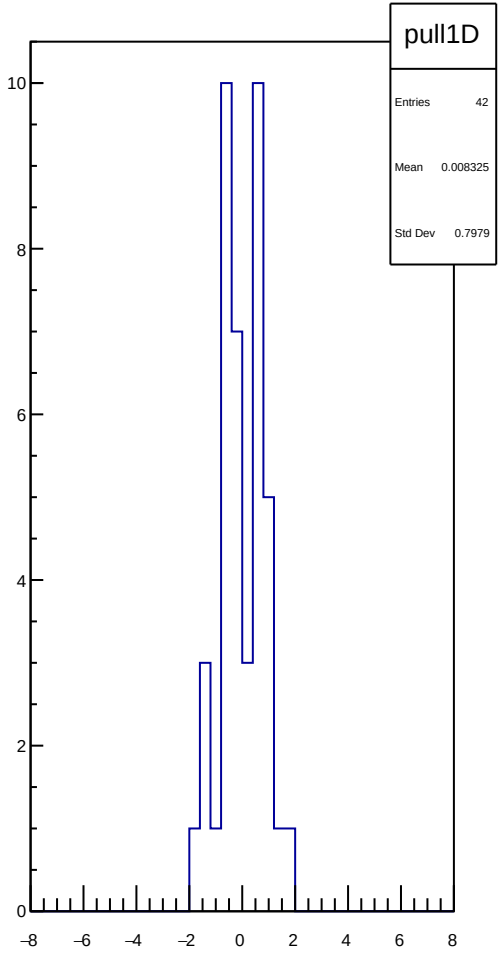

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 33.97 / 41
p0 0.000171 ± 1.992
pull
Entries 42
Mean 606
Std Dev 583.4

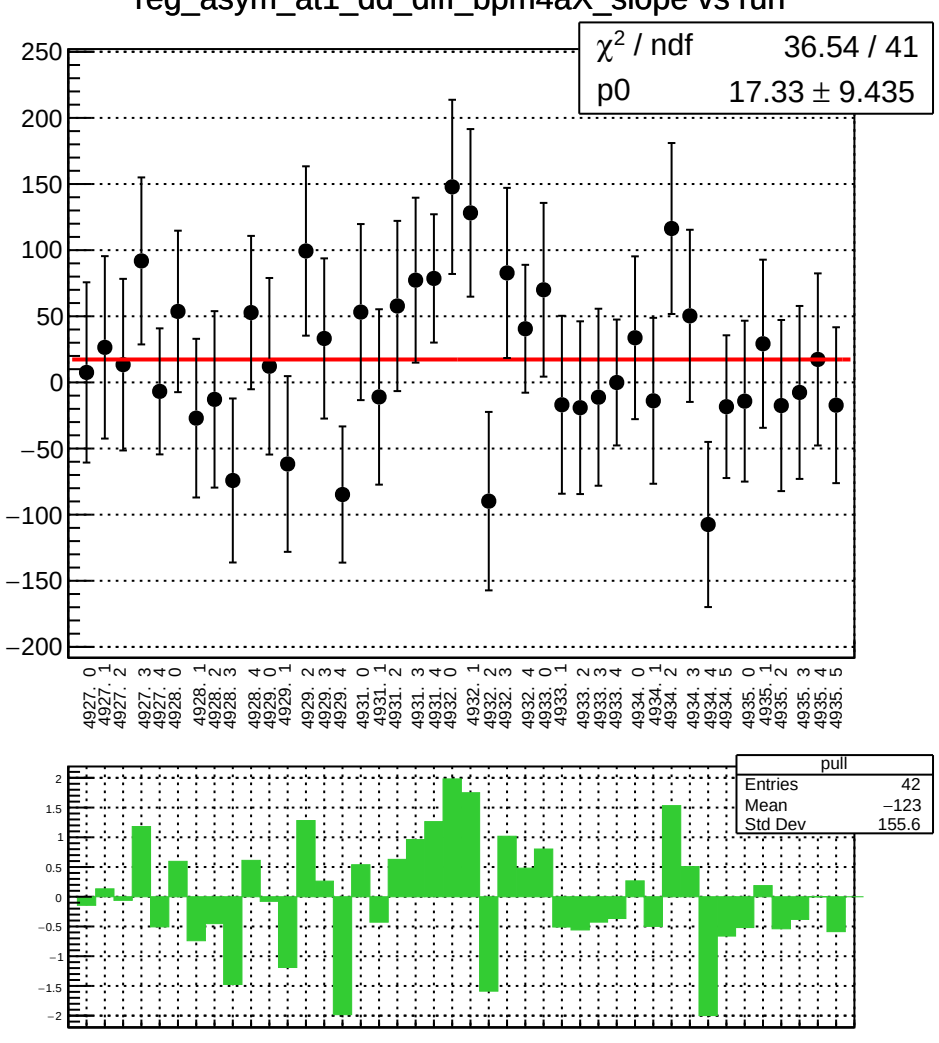

pull1D
Entries 42
Mean −0.006002
Std Dev 0.8993

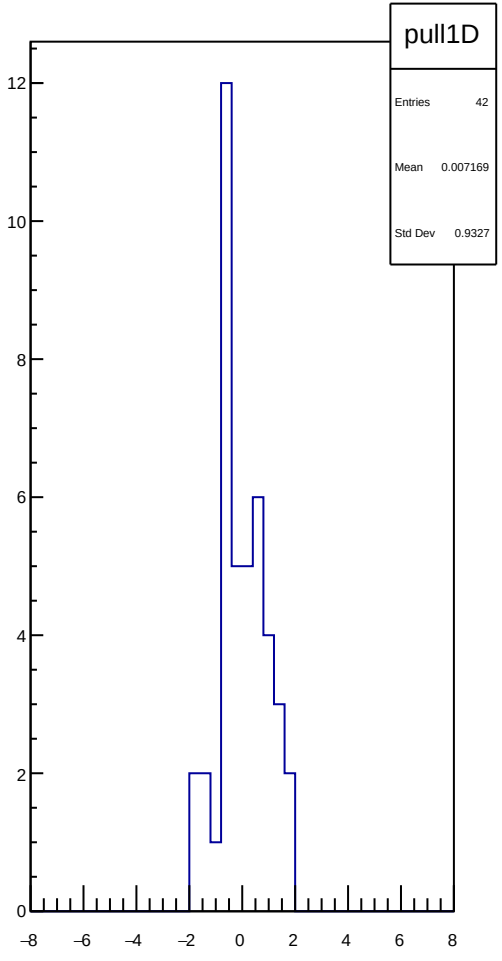

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 24.13 / 41
p0 −30.69 ± 13.38
200
100
0
−100
−200
−300
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935.
pull
Entries 42
Mean −90.77
Std Dev 108.6
1.5
1
0.5
0
−0.5
−1
−1.5

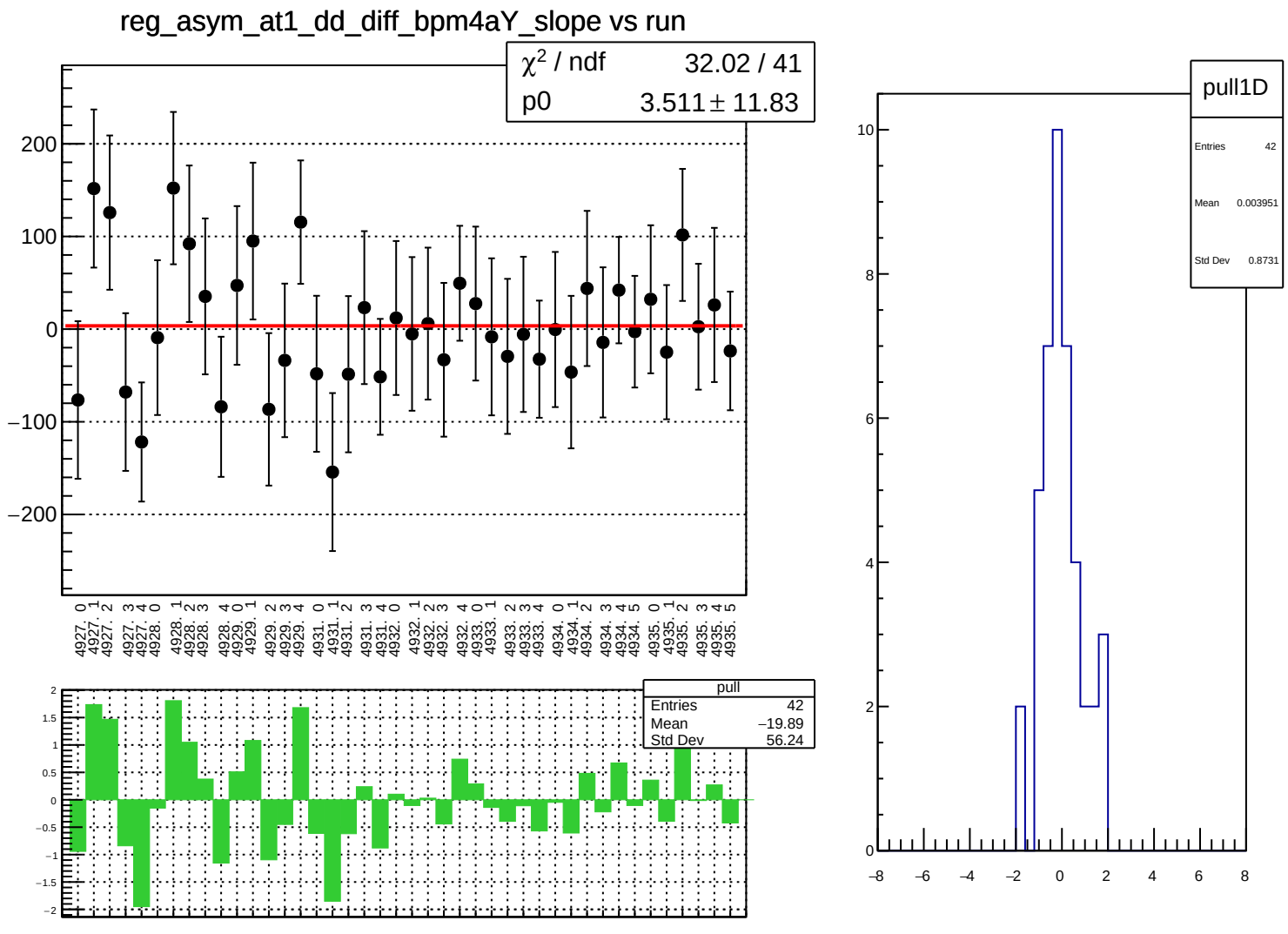

pull1D
Entries 42
Mean 0.01067
Std Dev 0.758
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

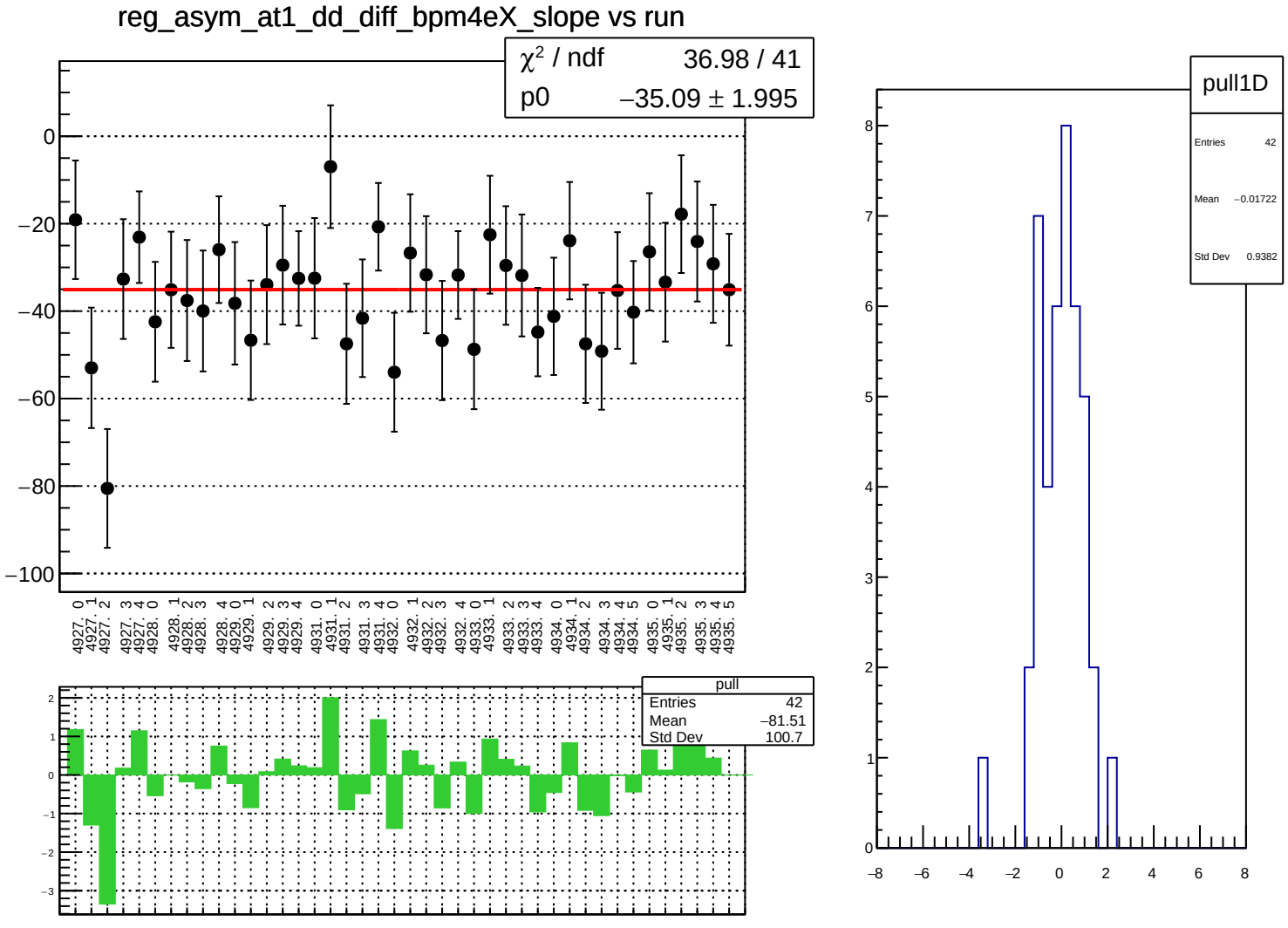

reg_asym_at1_avg_diff_bpm11X_slope vs run
χ² / ndf 26.74 / 41
p0 4.345 ± 3.191
pull
Entries 42
Mean −27.85
Std Dev 57.51

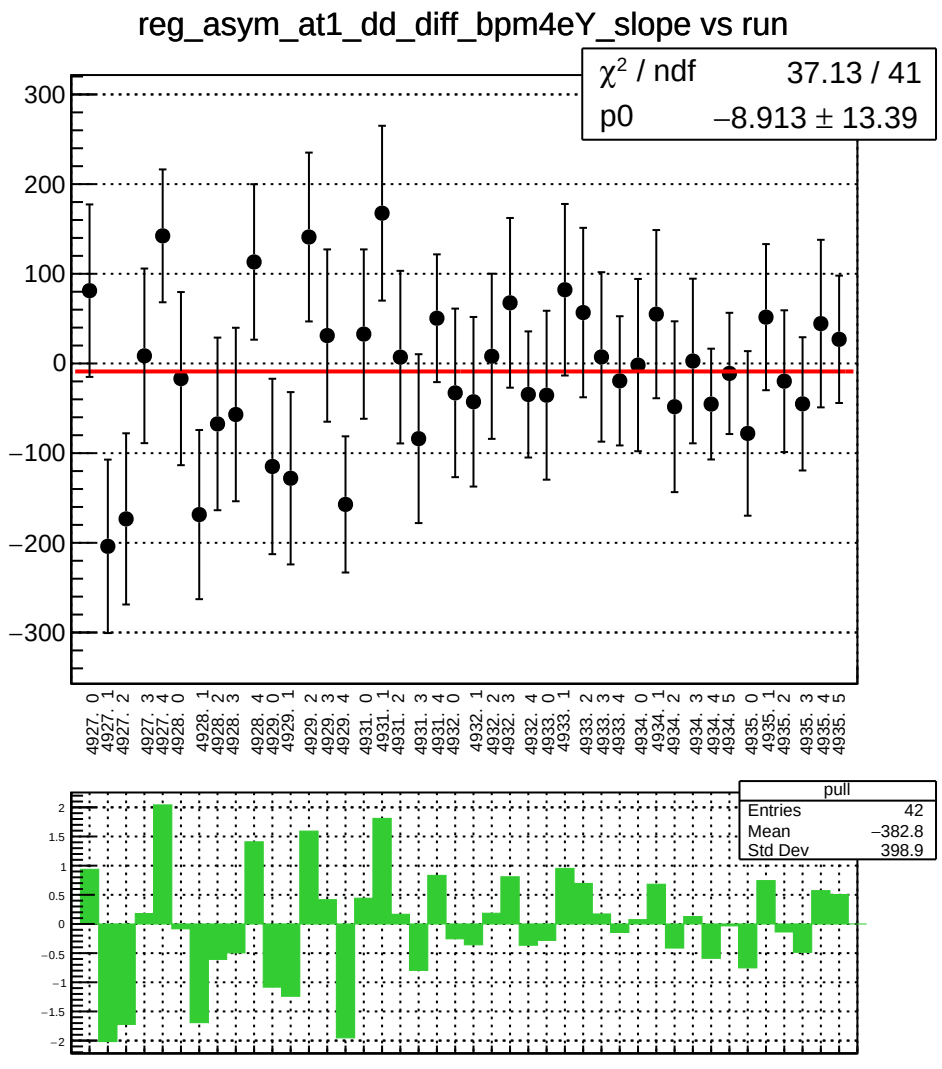

pull1D
Entries 42
Mean 0.008325
Std Dev 0.7979

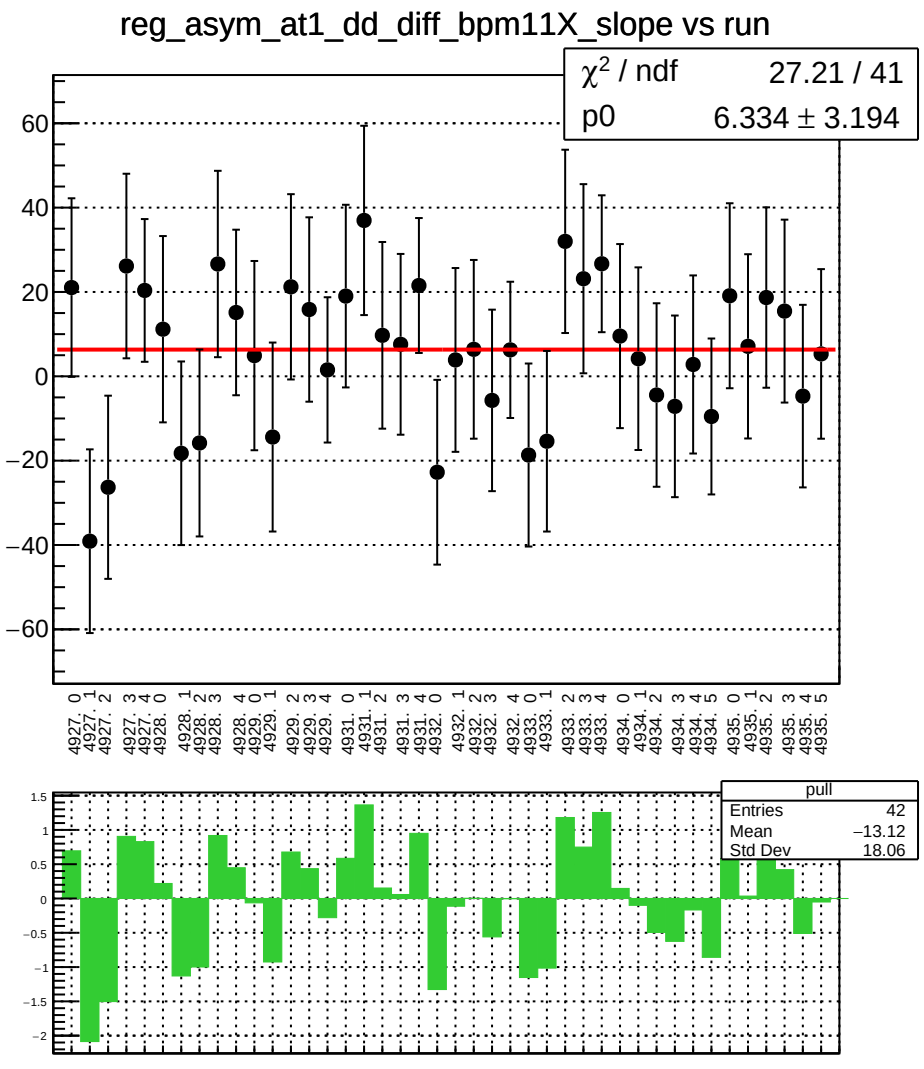

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 36.54 / 41
p0 17.33 ± 9.435
pull
Entries 42
Mean −123
Std Dev 155.6

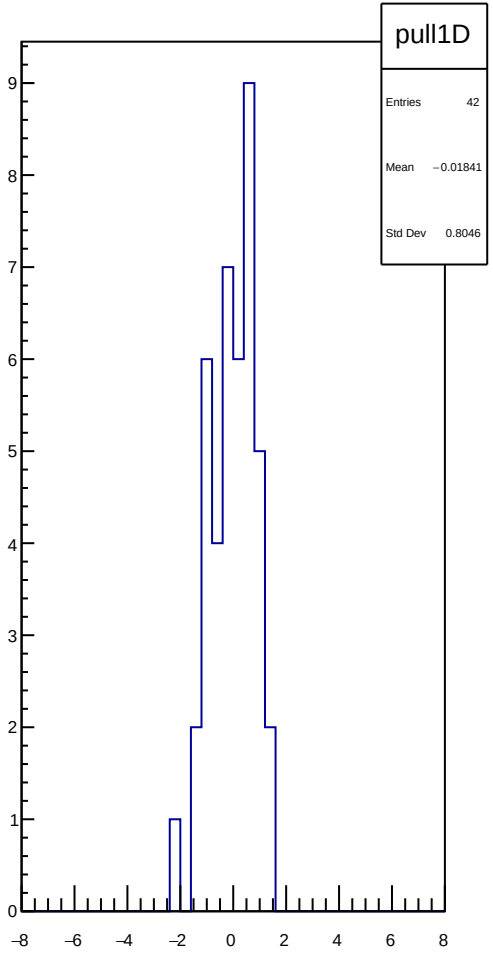

pull1D
Entries 42
Mean 0.007169
Std Dev 0.9327

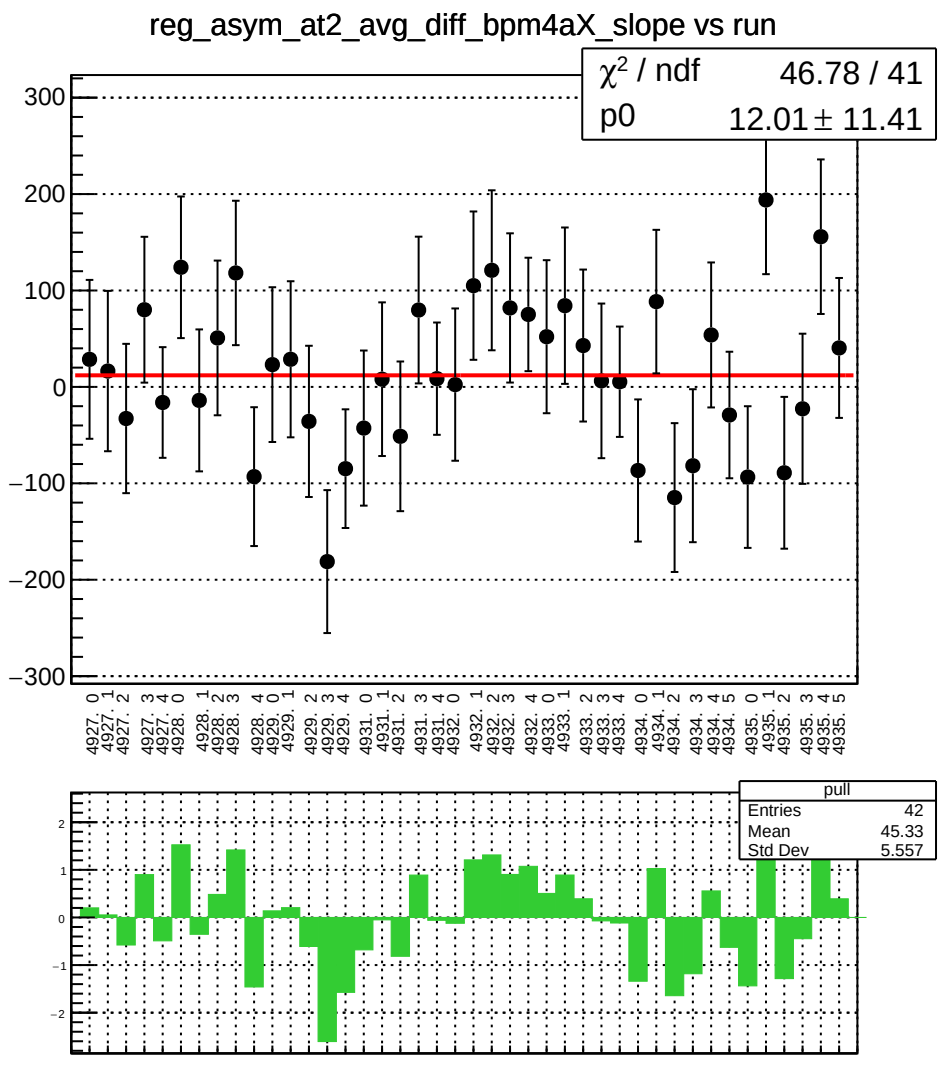

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 32.02 / 41
p0 3.511 ± 11.83
200
100
0
−100
−200
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −19.89
Std Dev 56.24
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 42
Mean 0.003951
Std Dev 0.8731
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

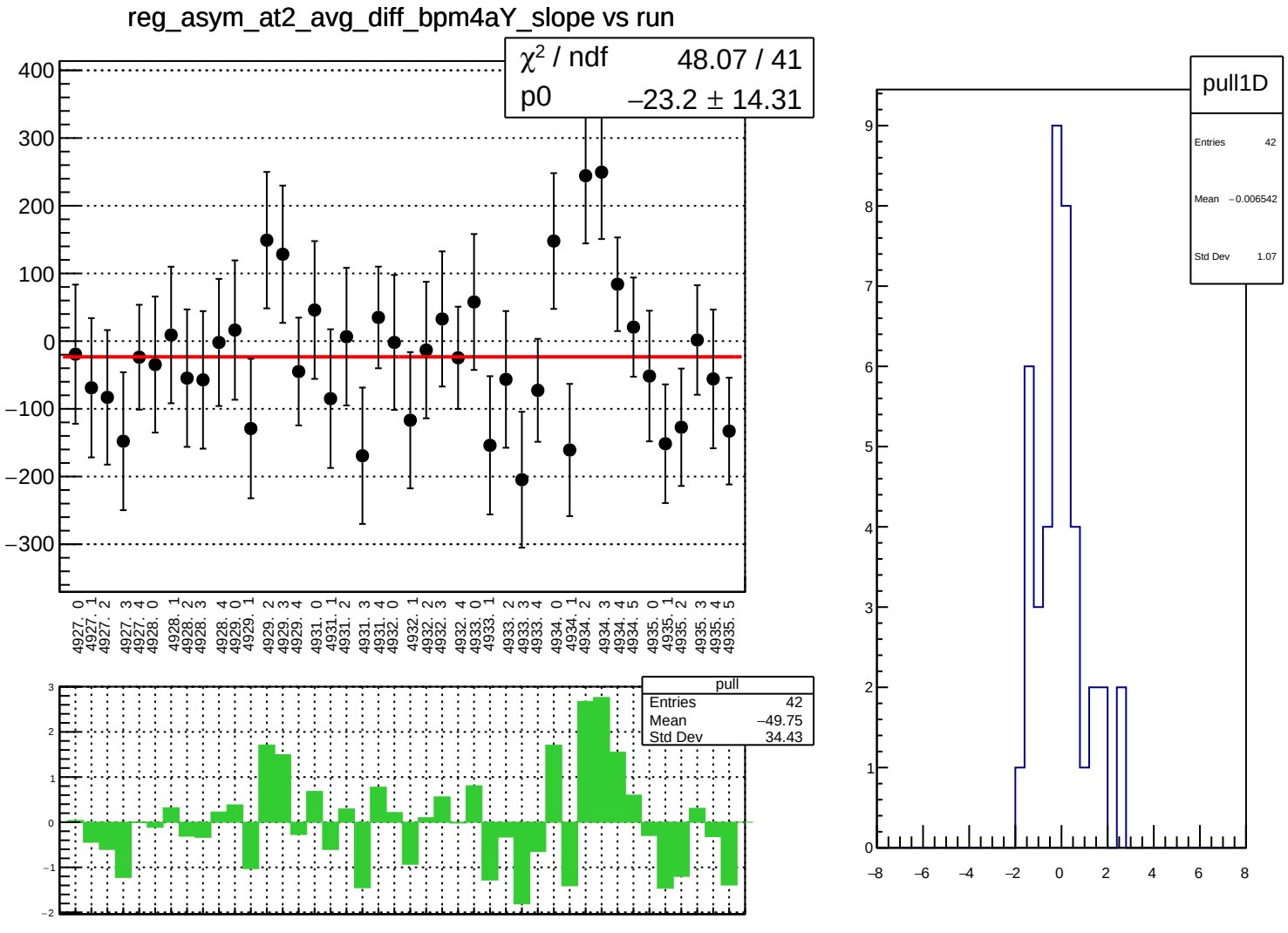

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 36.98 / 41
p0 −35.09 ± 1.995
0
−20
−40
−60
−80
−100
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −81.51
Std Dev 100.7
2
1
0
−1
−2
−3
pull1D
Entries 42
Mean −0.01722
Std Dev 0.9382
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

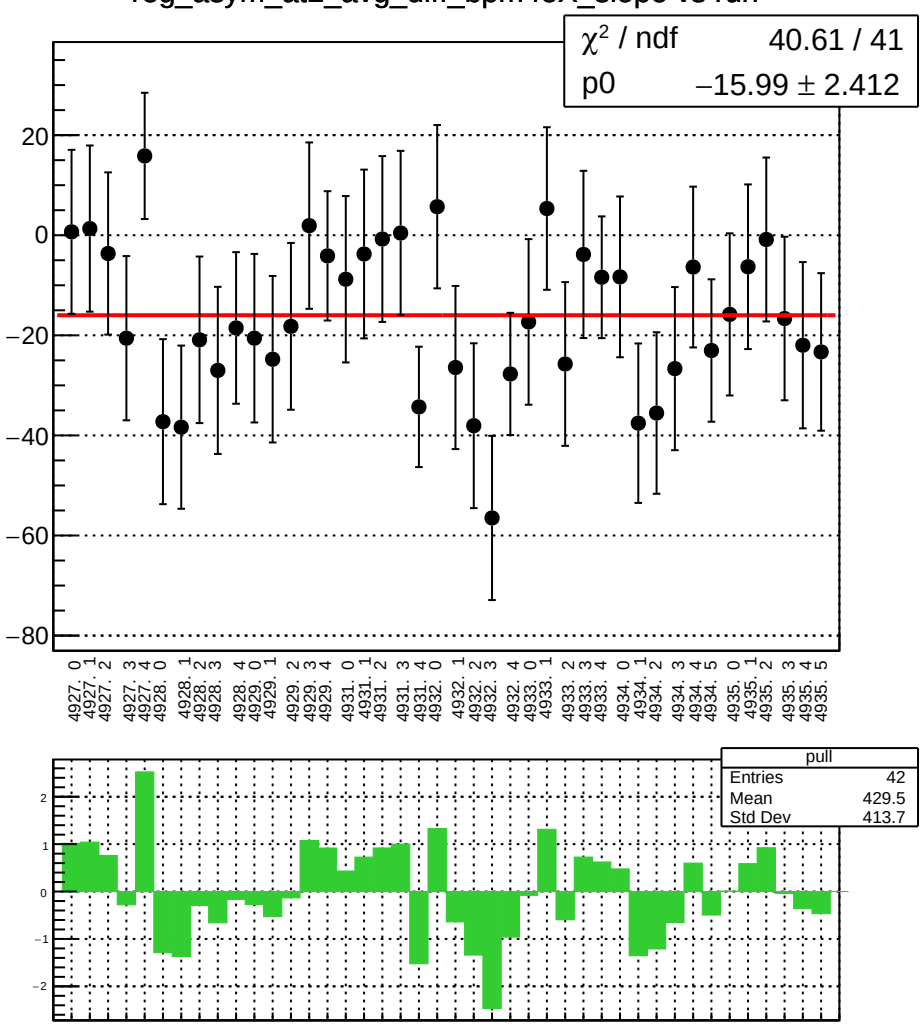

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 37.13 / 41
p0 −8.913 ± 13.39
300
200
100
0
−100
−200
−300
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −382.8
Std Dev 398.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 42
Mean −0.003799
Std Dev 0.9403
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

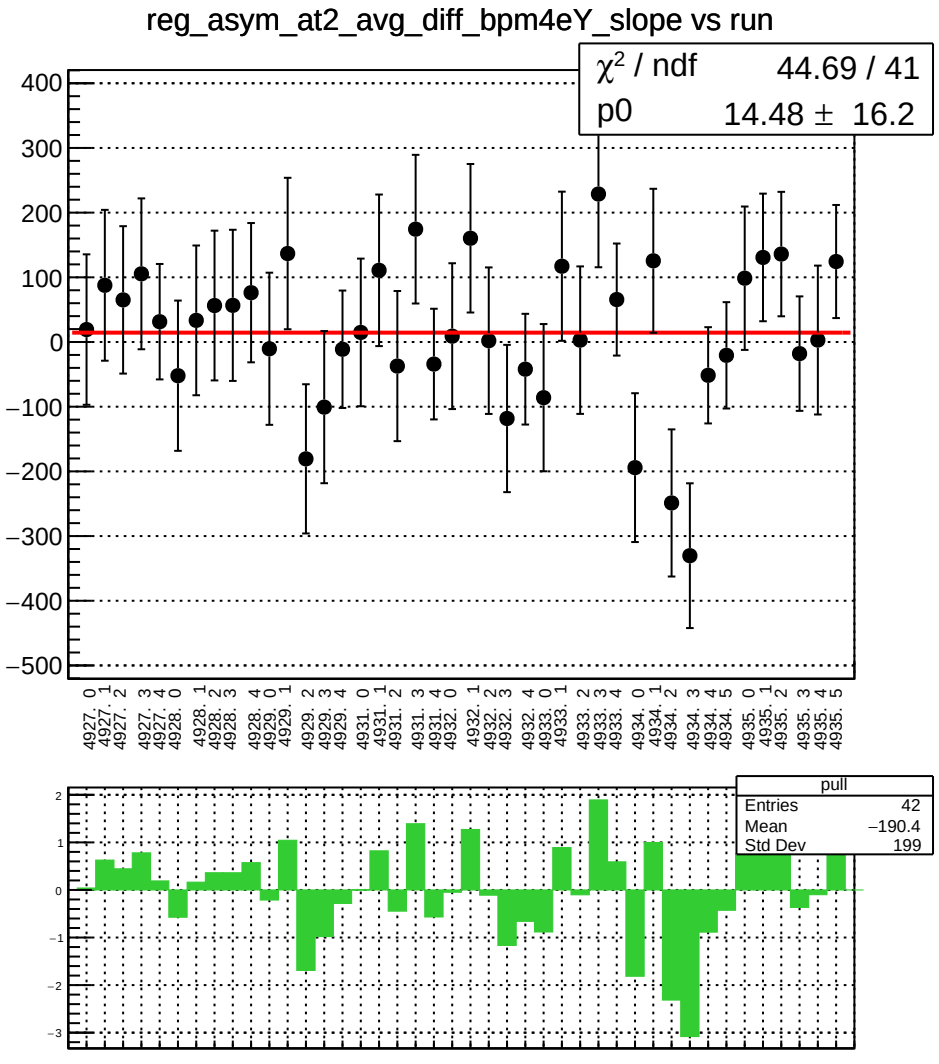

reg_asym_at1_dd_diff_bpm11X_slope vs run
χ² / ndf 27.21 / 41
p0 6.334 ± 3.194
pull
Entries 42
Mean −13.12
Std Dev 18.06

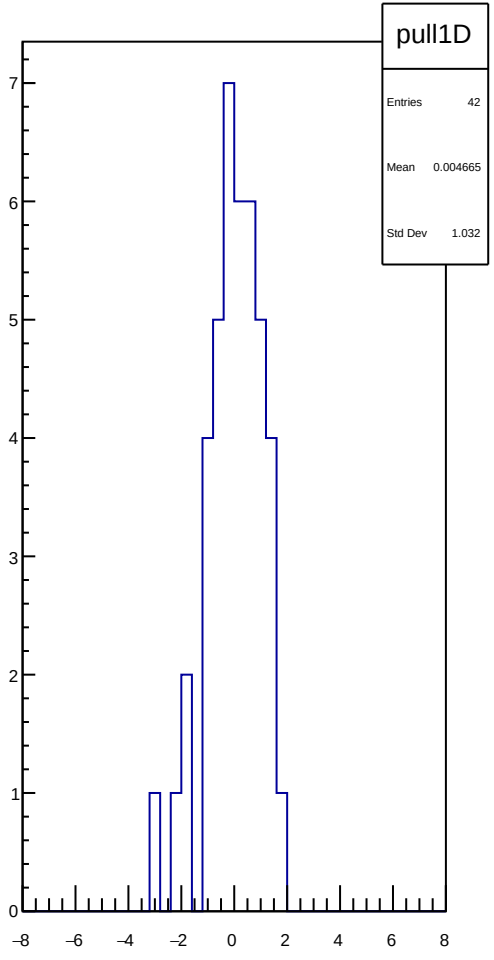

pull1D
Entries 42
Mean −0.01841
Std Dev 0.8046

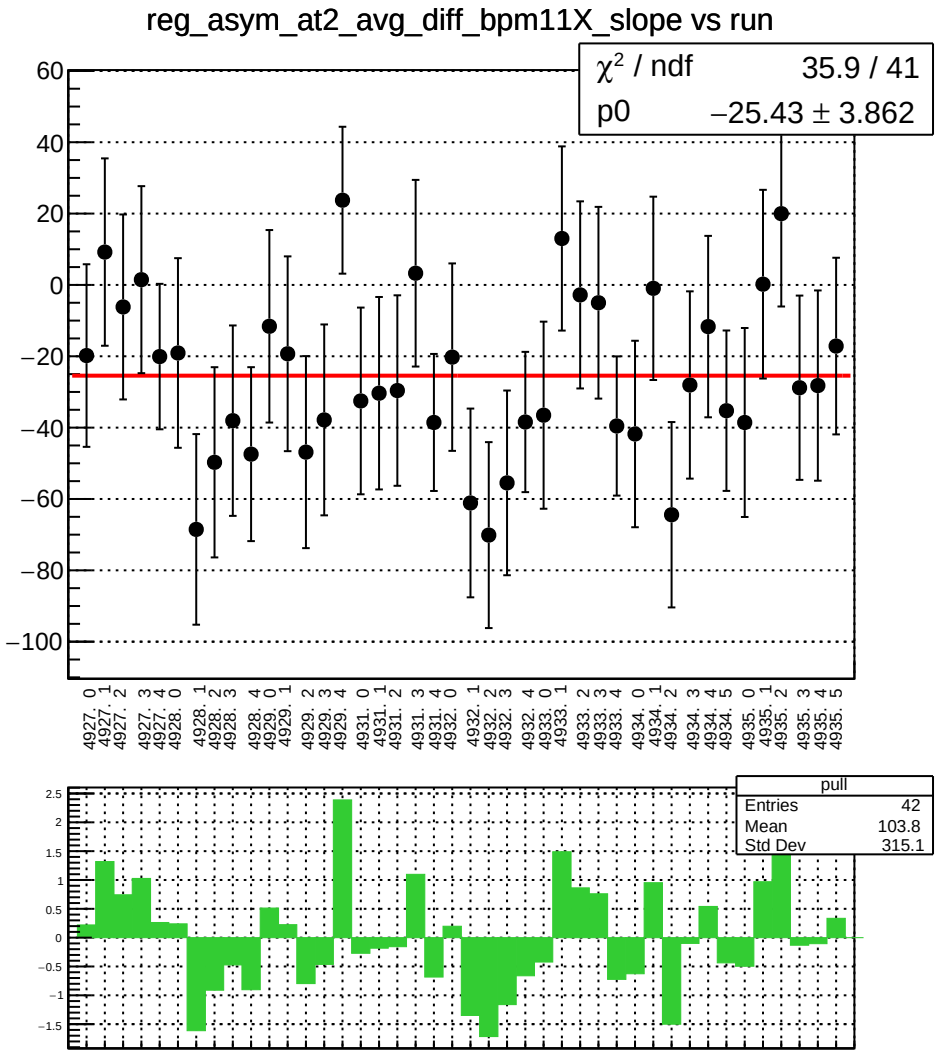

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 46.78 / 41
p0 12.01 ± 11.41
300
200
100
0
−100
−200
−300
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 45.33
Std Dev 5.557
2
1
0
−1
−2
pull1D
Entries 42
Mean 0.01648
Std Dev 1.055
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

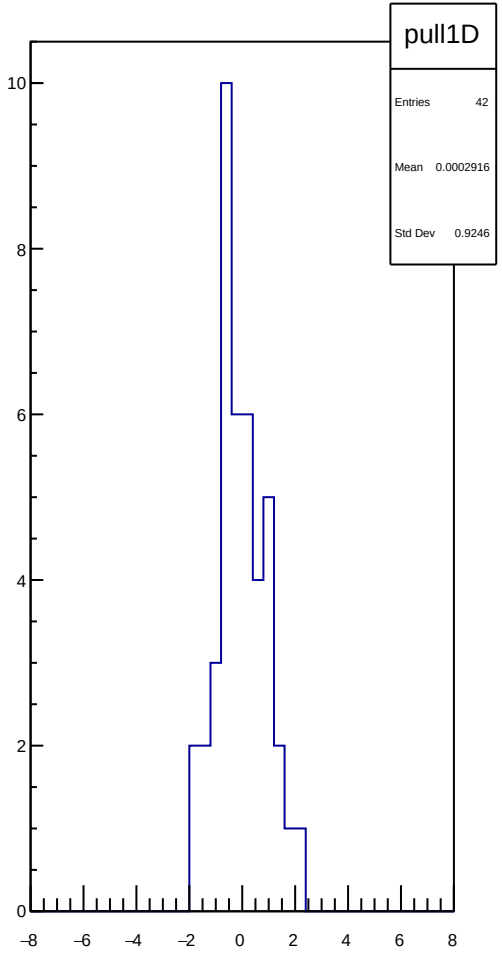

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 48.07 / 41
p0 −23.2 ± 14.31
pull
Entries 42
Mean −49.75
Std Dev 34.43
pull1D
Entries 42
Mean −0.006542
Std Dev 1.07

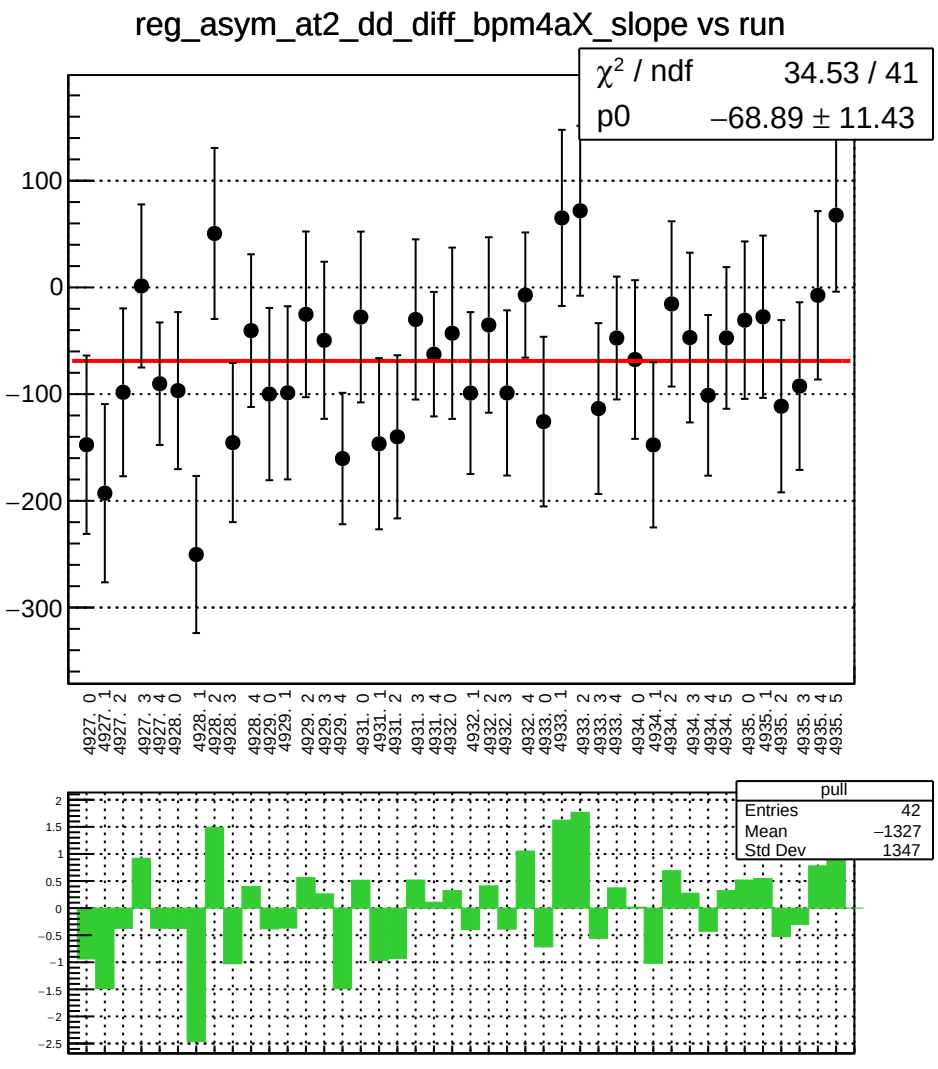

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 40.61 / 41
p0 −15.99 ± 2.412
20
0
−20
−40
−60
−80
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 429.5
Std Dev 413.7
2
1
0
−1
−2
pull1D
Entries 42
Mean −0.004257
Std Dev 0.9833
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

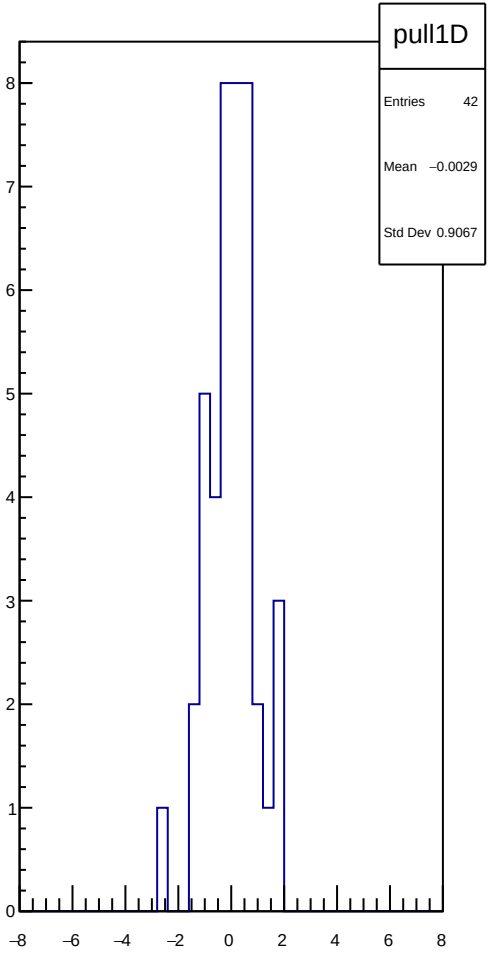

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 44.69 / 41
p0 14.48 ± 16.2
400
300
200
100
0
−100
−200
−300
−400
−500
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −190.4
Std Dev 199
2
1
0
−1
−2
−3

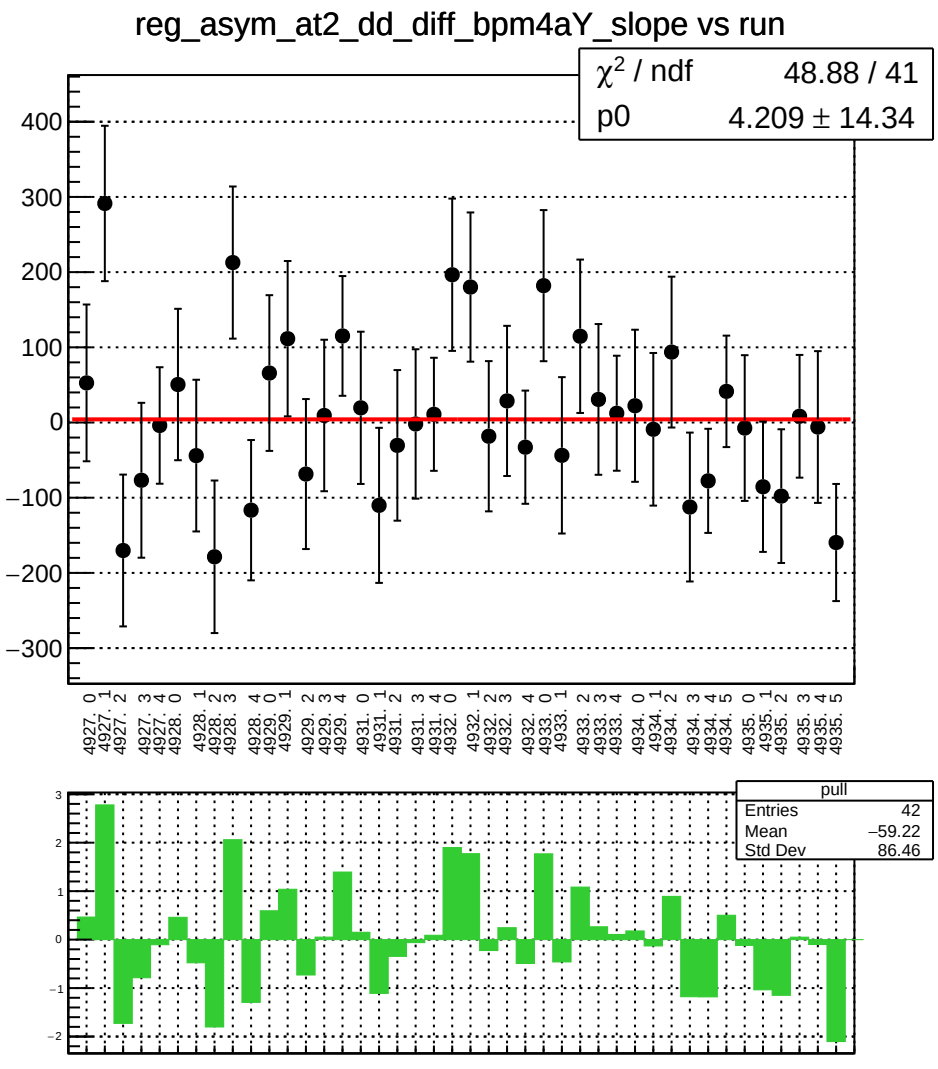

pull1D
Entries 42
Mean 0.004665
Std Dev 1.032
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

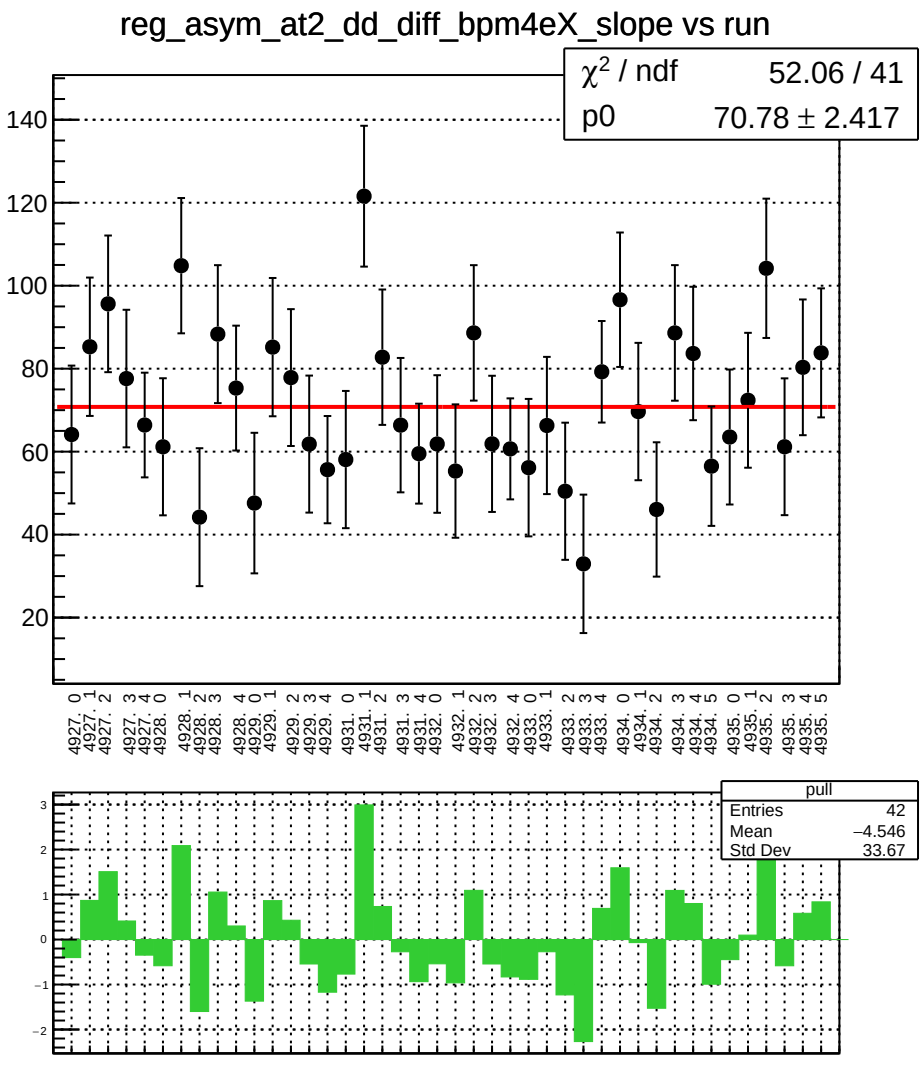

reg_asym_at2_avg_diff_bpm11X_slope vs run
χ² / ndf 35.9 / 41
p0 −25.43 ± 3.862
pull
Entries 42
Mean 103.8
Std Dev 315.1

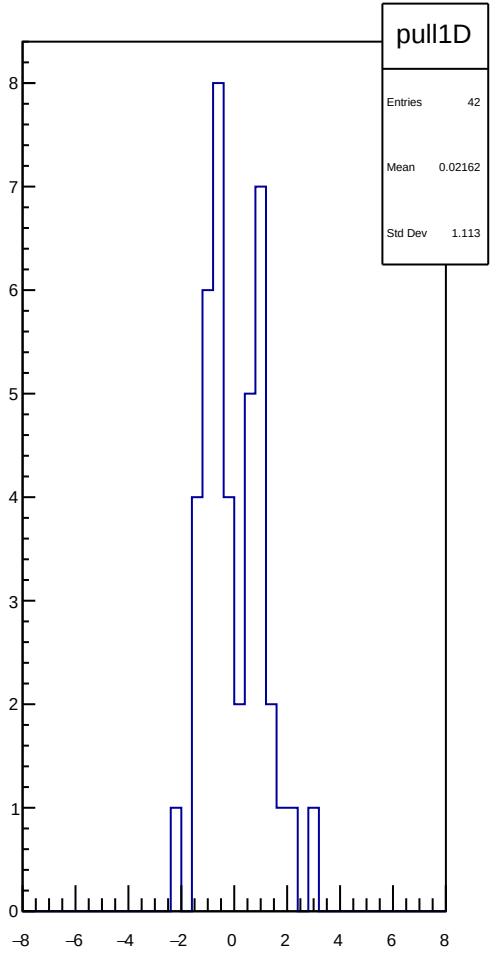

pull1D
Entries 42
Mean 0.0002916
Std Dev 0.9246

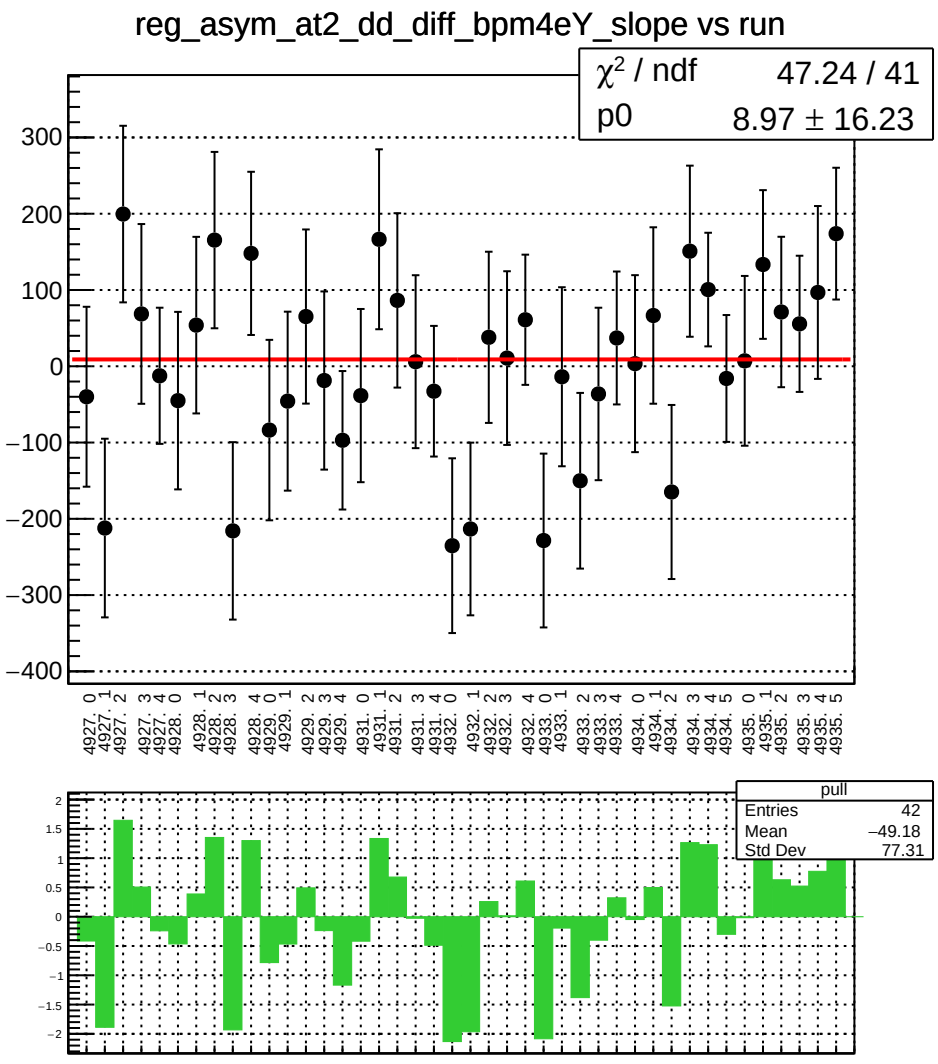

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 34.53 / 41
p0 −68.89 ± 11.43
100
0
−100
−200
−300
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −1327
Std Dev 1347
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

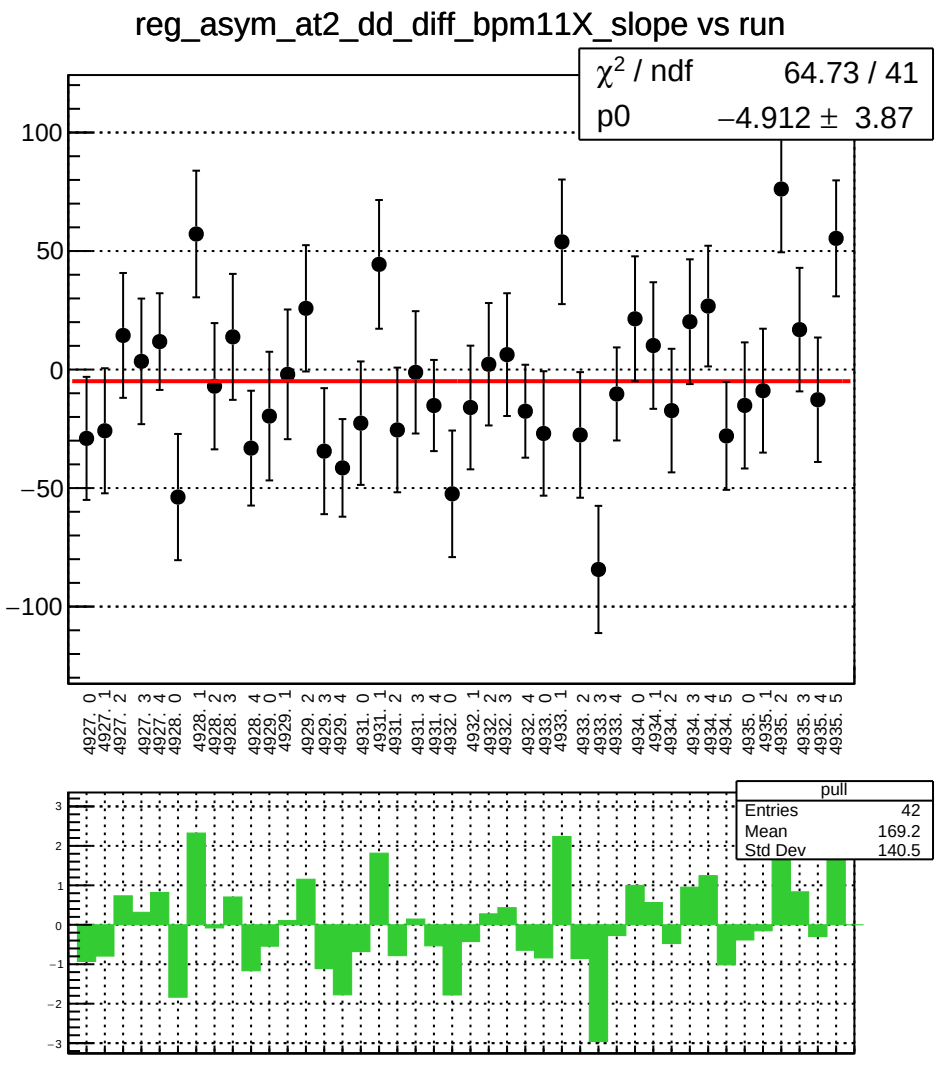

pull1D
Entries 42
Mean −0.0029
Std Dev 0.9067
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

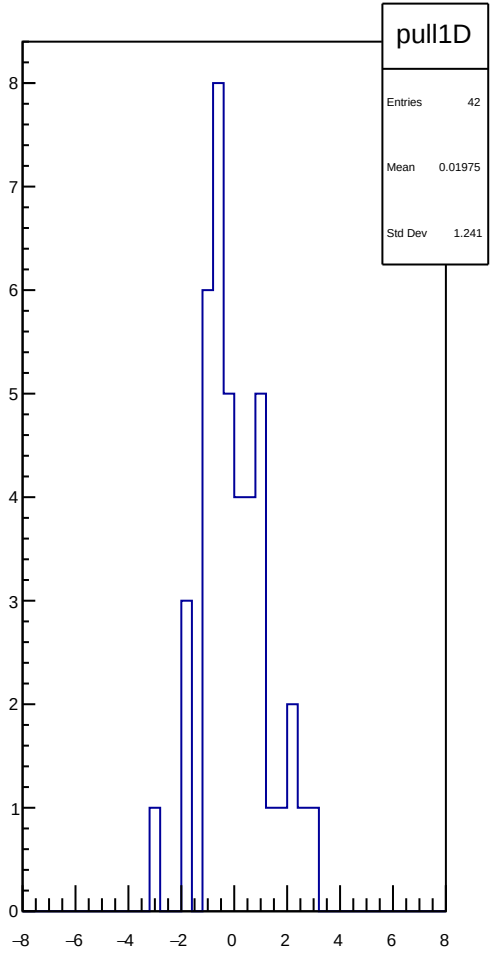

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 48.88 / 41
p0 4.209 ± 14.34
400
300
200
100
0
−100
−200
−300
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −59.22
Std Dev 86.46
3
2
1
0
−1
−2
pull1D
Entries 42
Mean 0.02941
Std Dev 1.078
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

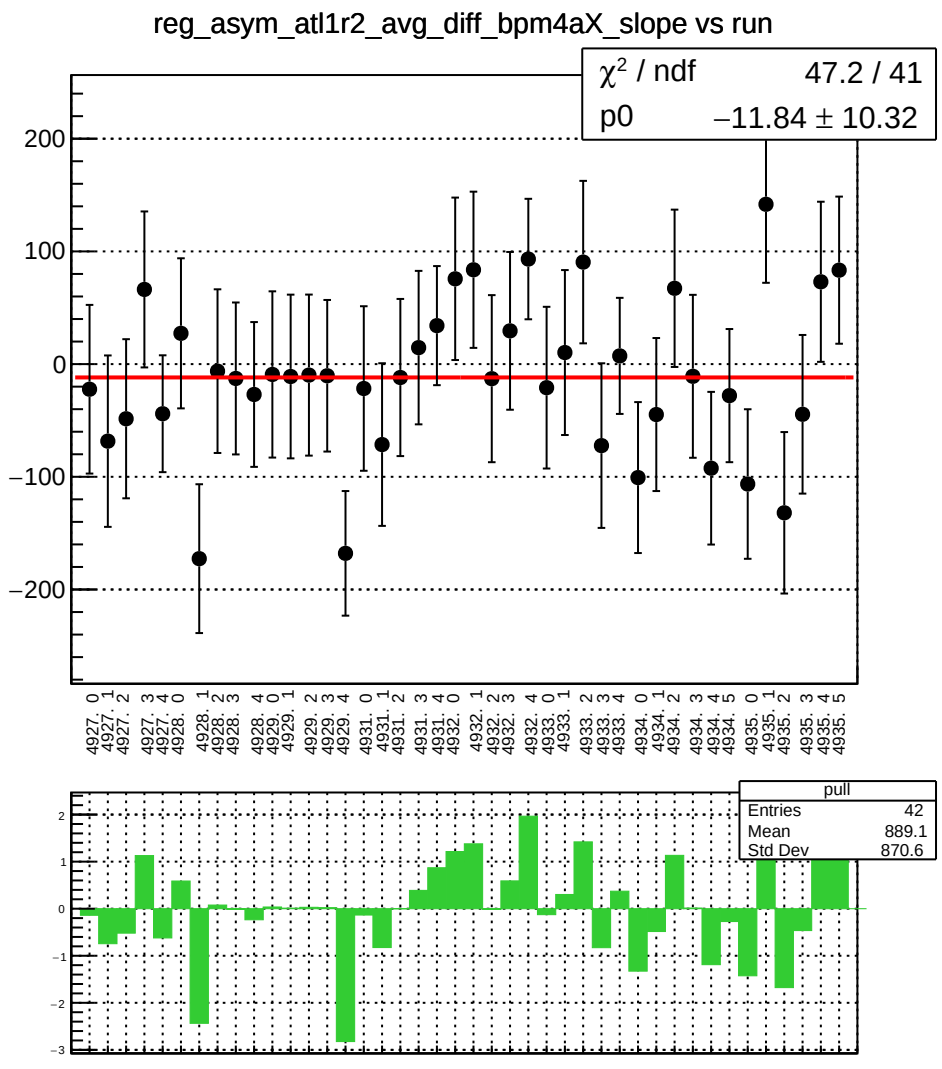

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 52.06 / 41
p0 70.78 ± 2.417
pull
Entries 42
Mean −4.546
Std Dev 33.67

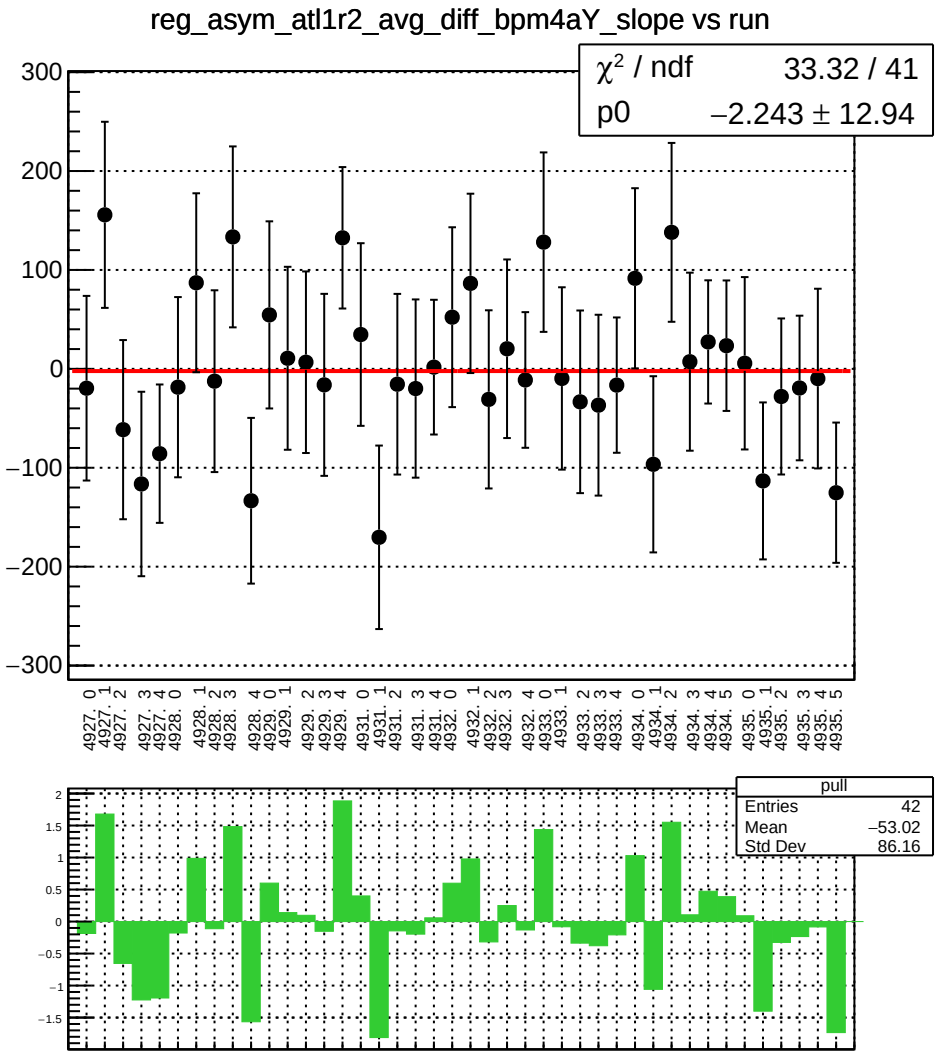

pull1D
Entries 42
Mean 0.02162
Std Dev 1.113

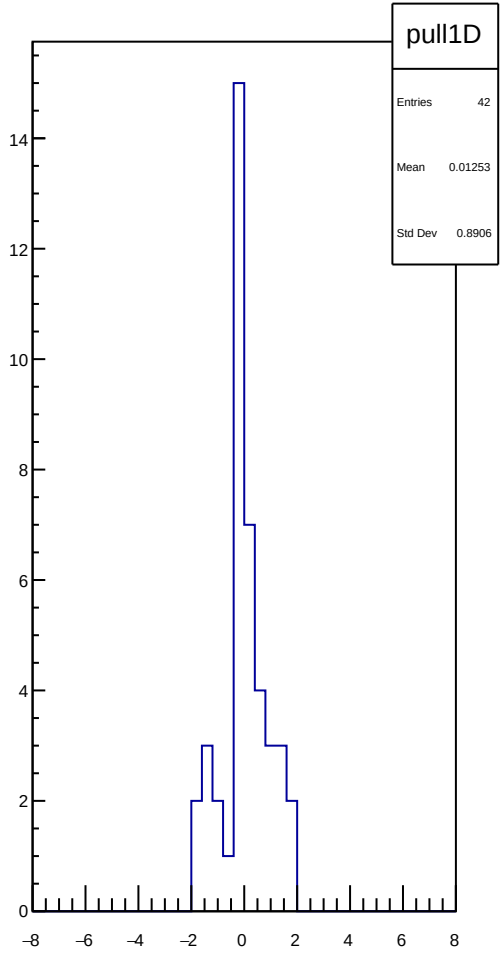

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 47.24 / 41
p0 8.97 ± 16.23
300
200
100
0
−100
−200
−300
−400
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −49.18
Std Dev 77.31
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 42
Mean −0.037
Std Dev 1.06
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

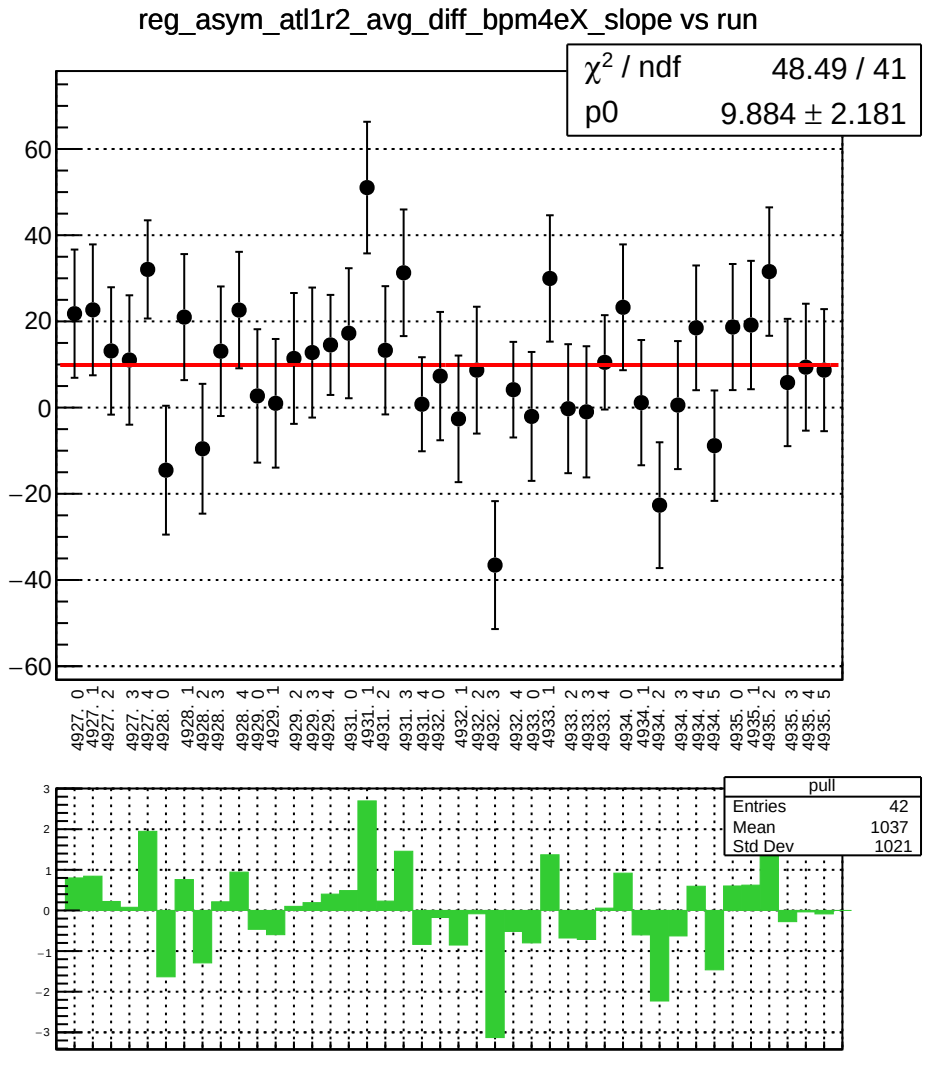

reg_asym_at2_dd_diff_bpm11X_slope vs run
χ² / ndf 64.73 / 41
p0 −4.912 ± 3.87
100
50
0
−50
−100
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 169.2
Std Dev 140.5
3
2
1
0
−1
−2
−3

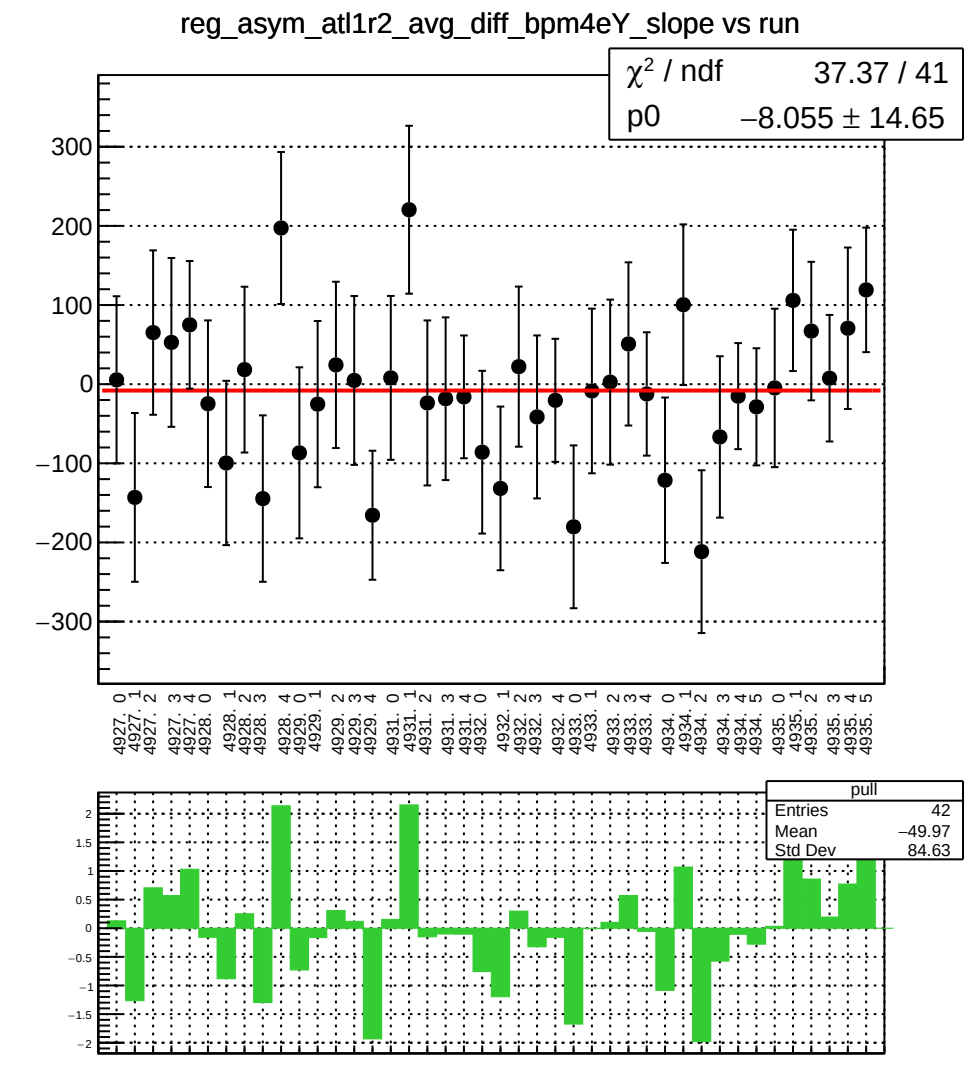

pull1D
Entries 42
Mean 0.01975
Std Dev 1.241
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

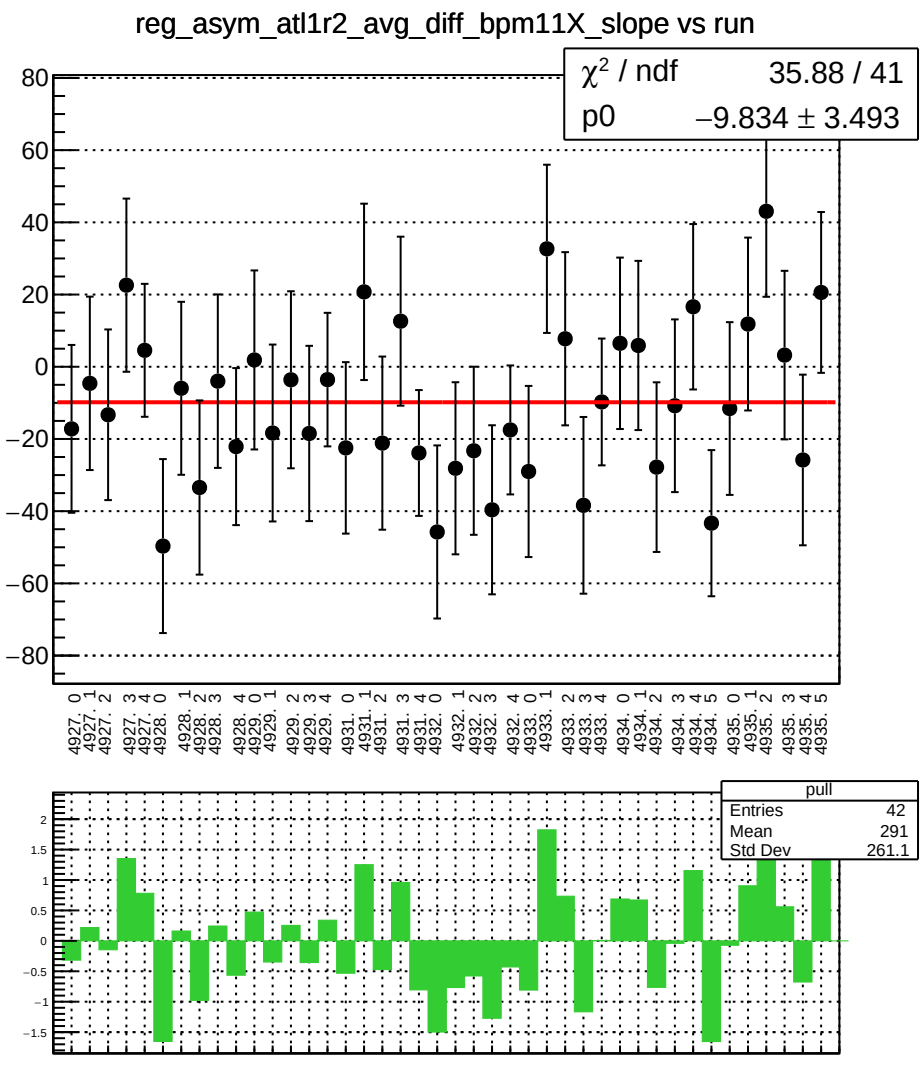

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 47.2 / 41
p0 −11.84 ± 10.32
200
100
0
−100
−200
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 889.1
Std Dev 870.6
2
1
0
−1
−2
−3
pull1D
Entries 42
Mean 0.002355
Std Dev 1.06
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

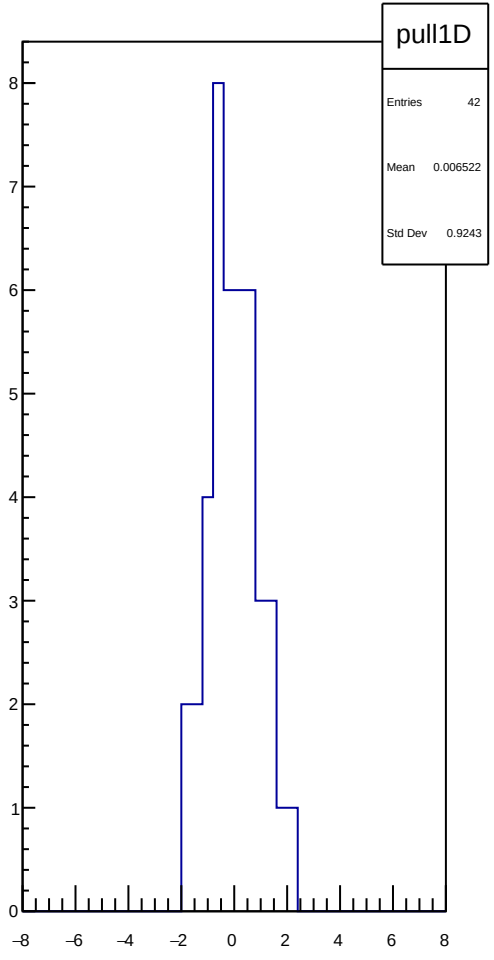

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 33.32 / 41
p0 −2.243 ± 12.94
pull
Entries 42
Mean −53.02
Std Dev 86.16

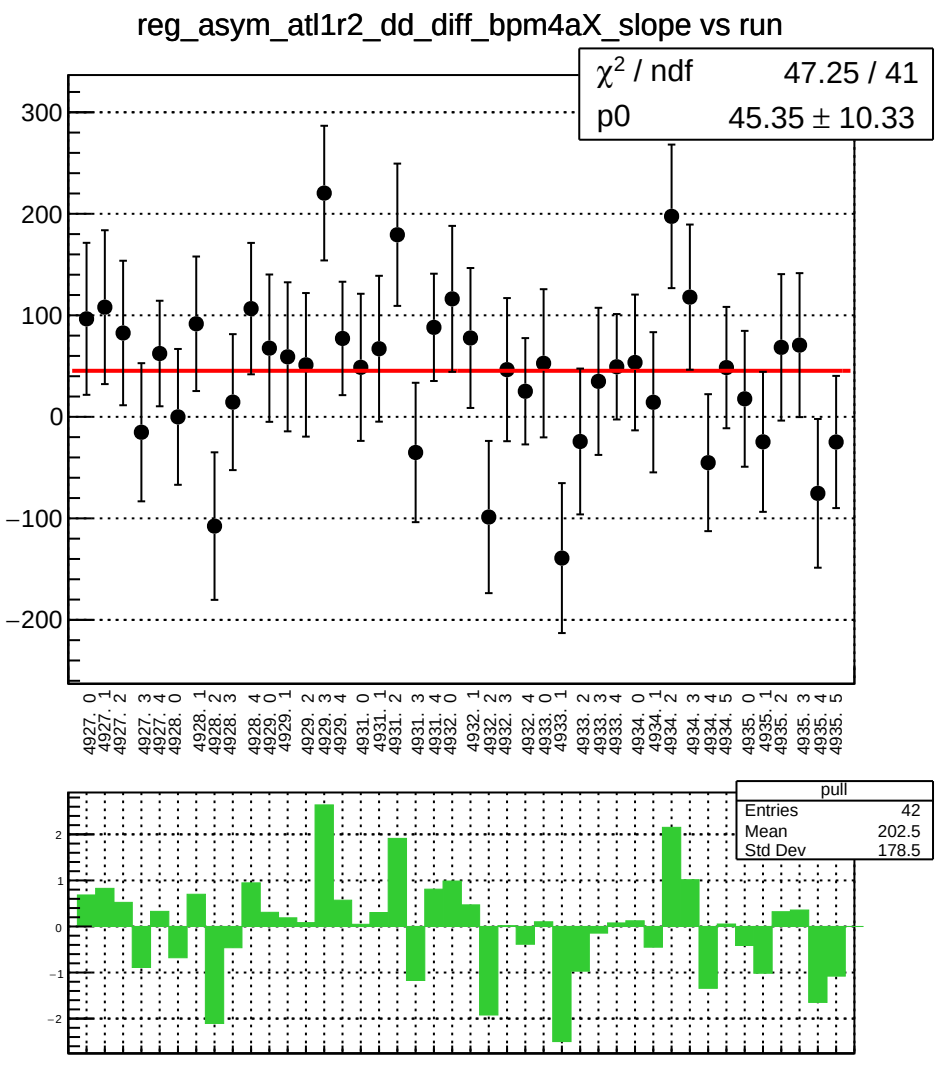

pull1D
Entries 42
Mean 0.01253
Std Dev 0.8906

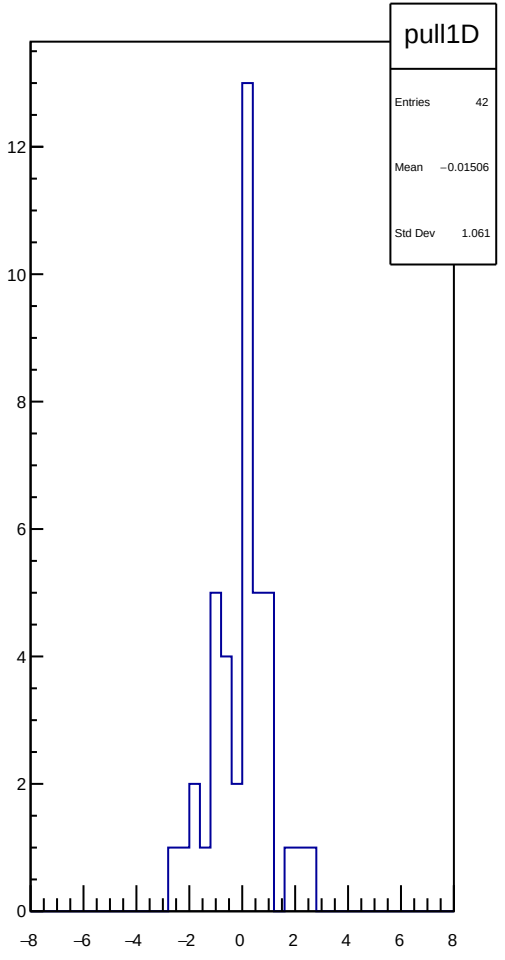

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 48.49 / 41
p0 9.884 ± 2.181
pull
Entries 42
Mean 1037
Std Dev 1021
pull1D
Entries 42
Mean −0.002031
Std Dev 1.074

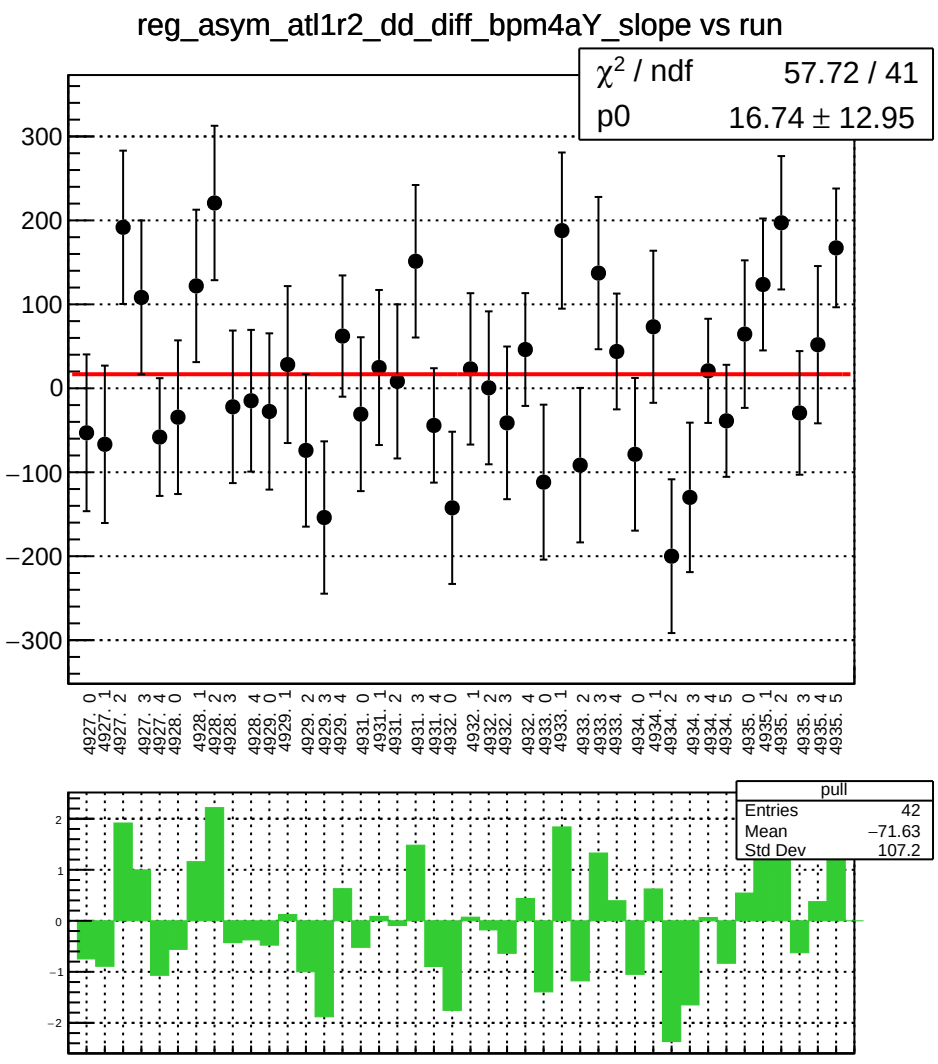

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 37.37 / 41
p0 −8.055 ± 14.65
300
200
100
0
−100
−200
−300
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −49.97
Std Dev 84.63
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 42
Mean −0.0147
Std Dev 0.9432
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

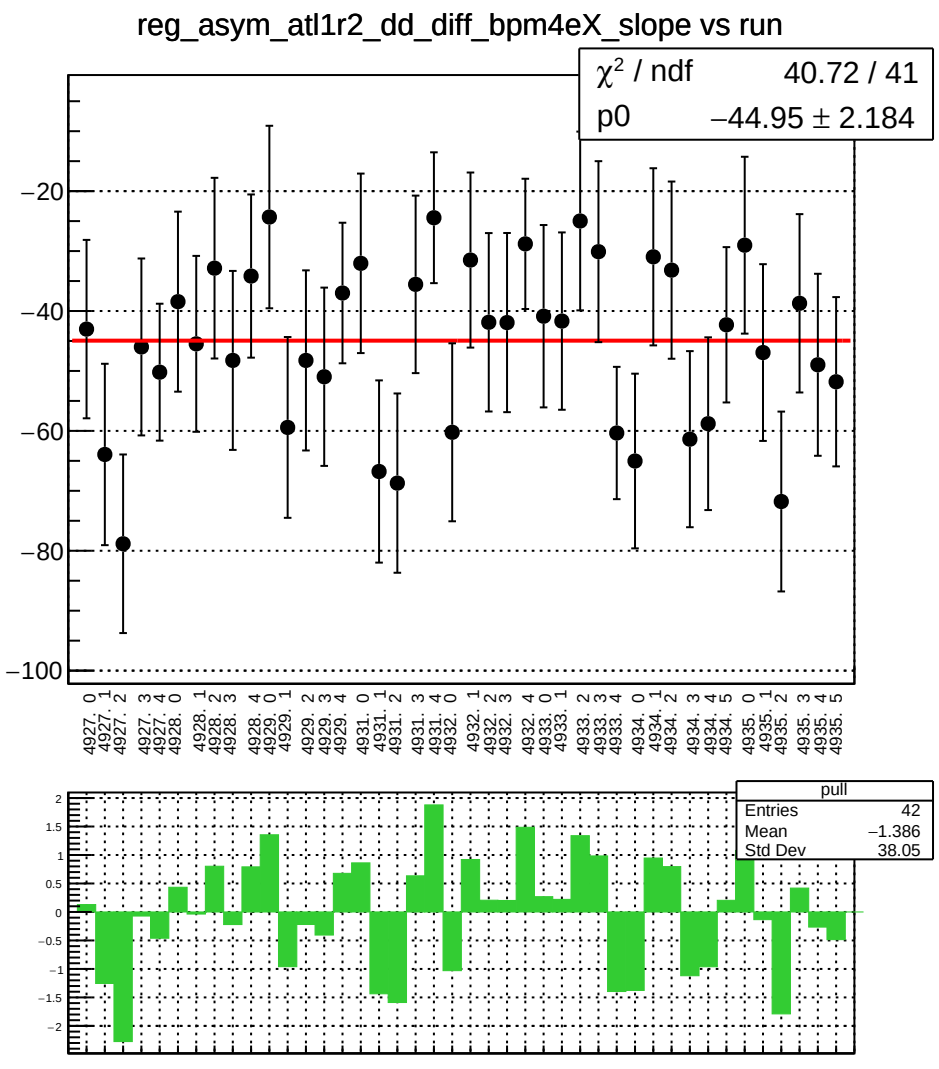

reg_asym_atl1r2_avg_diff_bpm11X_slope vs run
χ² / ndf 35.88 / 41
p0 −9.834 ± 3.493
pull
Entries 42
Mean 291
Std Dev 261.1

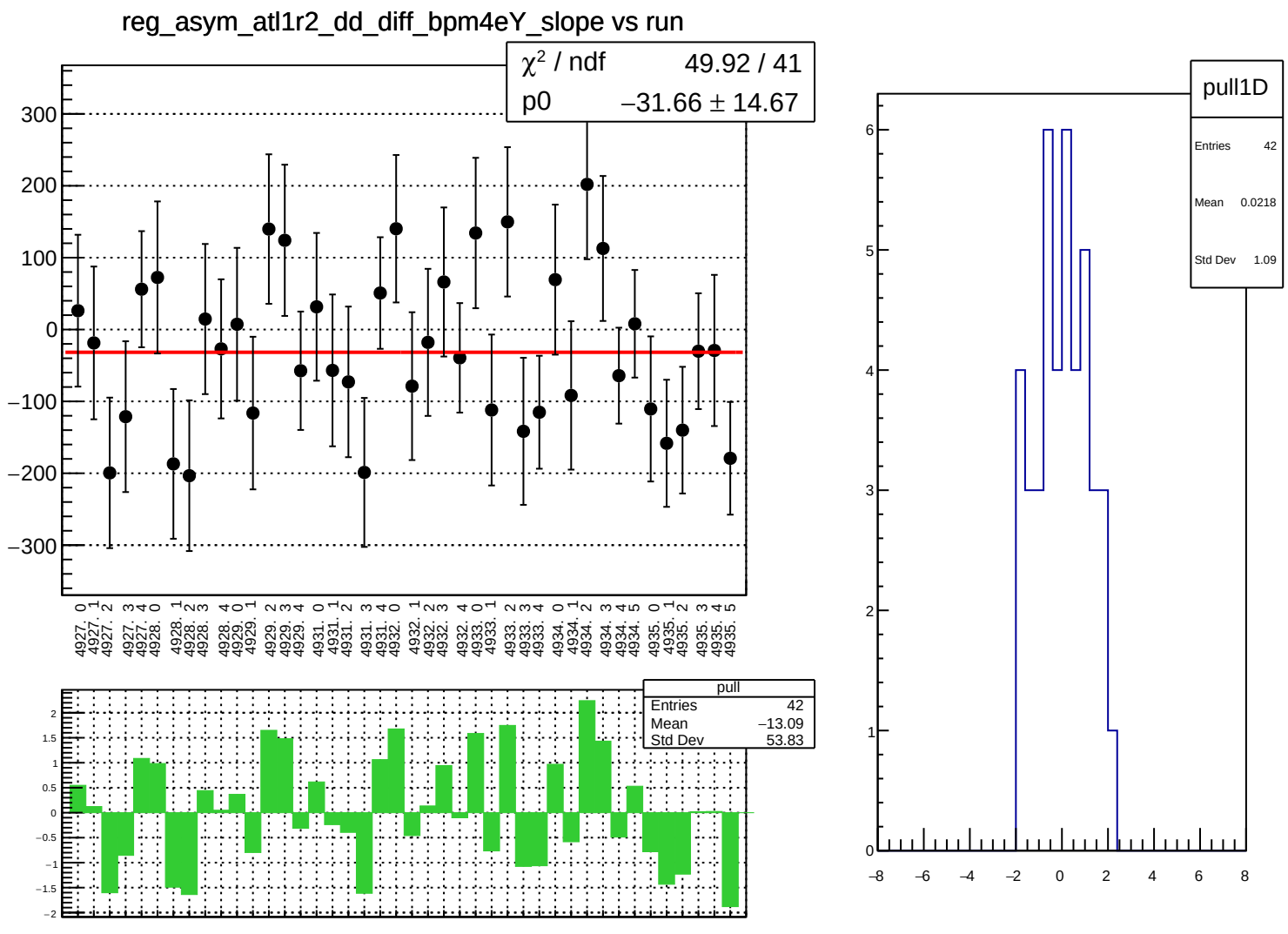

pull1D
Entries 42
Mean 0.006522
Std Dev 0.9243

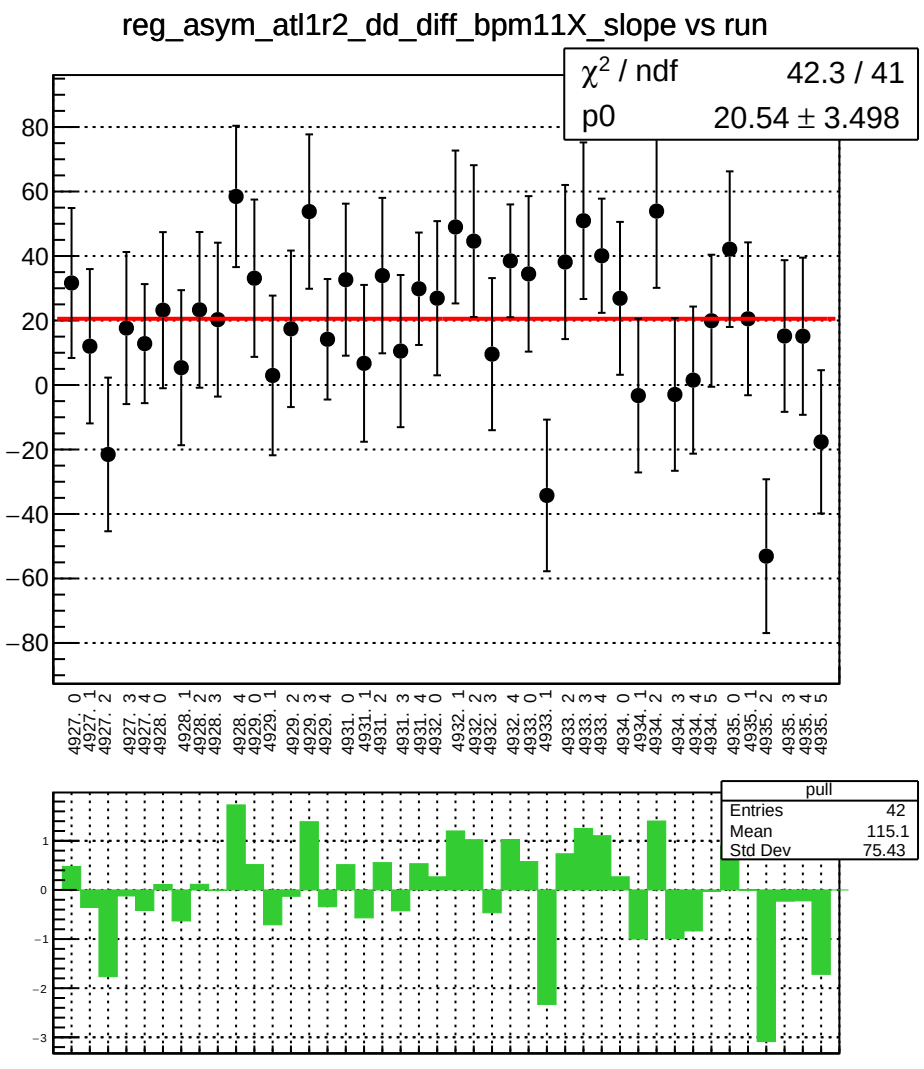

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 47.25 / 41
p0 45.35 ± 10.33
300
200
100
0
−100
−200
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 202.5
Std Dev 178.5
2
1
0
−1
−2

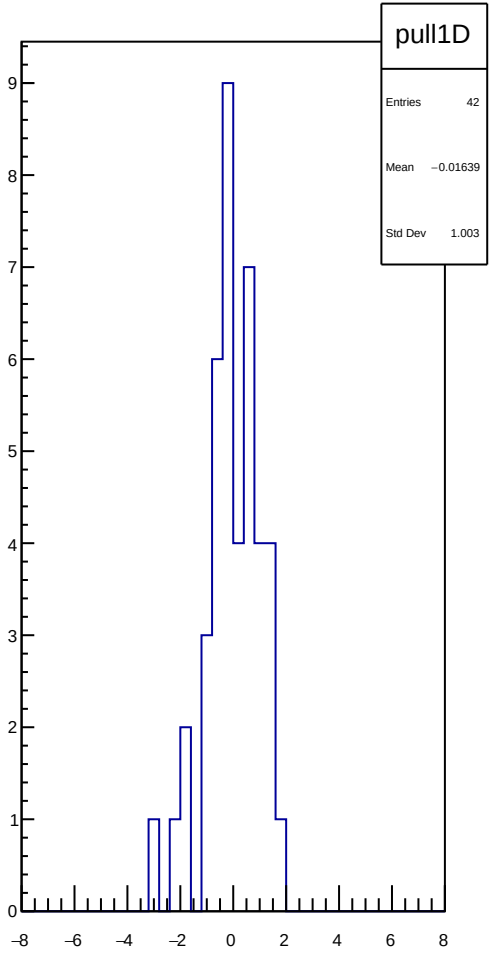

pull1D
Entries 42
Mean −0.01506
Std Dev 1.061
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

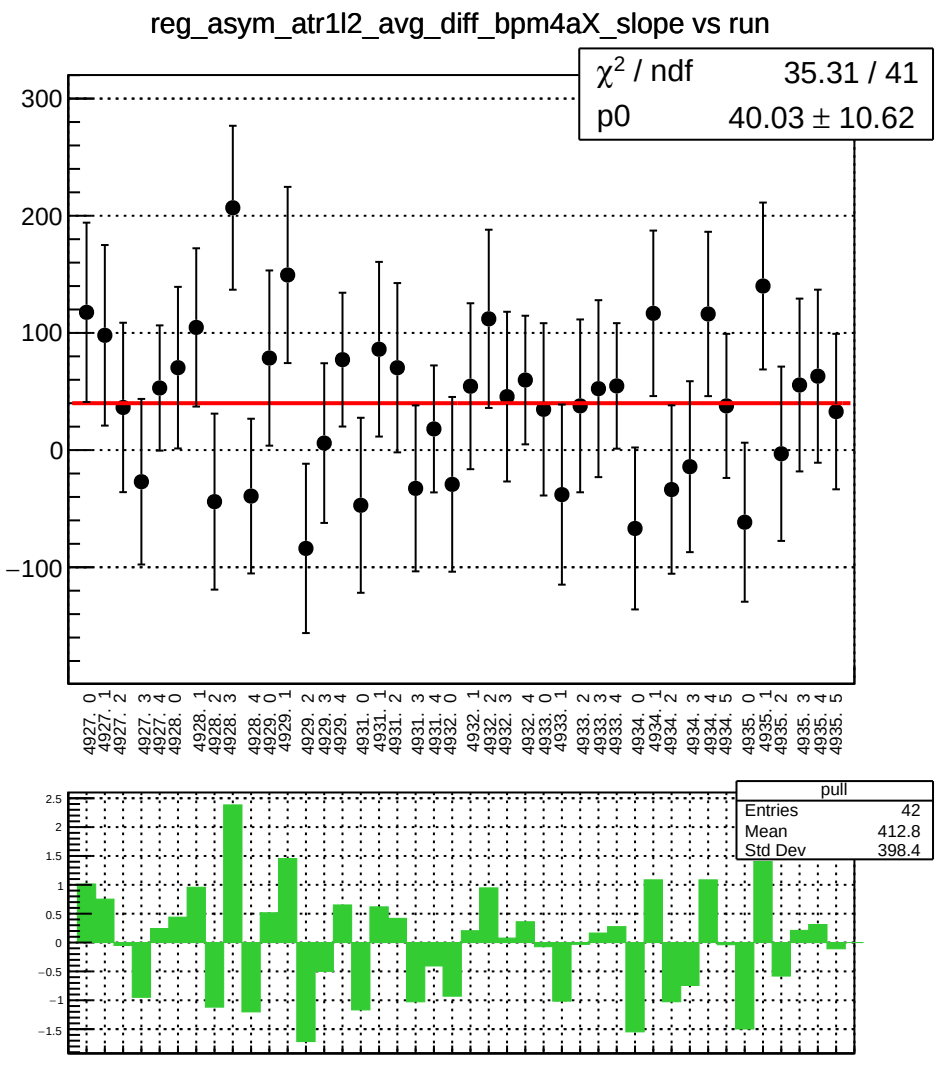

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 57.72 / 41
p0 16.74 ± 12.95
300
200
100
0
−100
−200
−300
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935.
pull
Entries 42
Mean −71.63
Std Dev 107.2
2
1
0
−1
−2
pull1D
Entries 42
Mean −0.0127
Std Dev 1.172
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

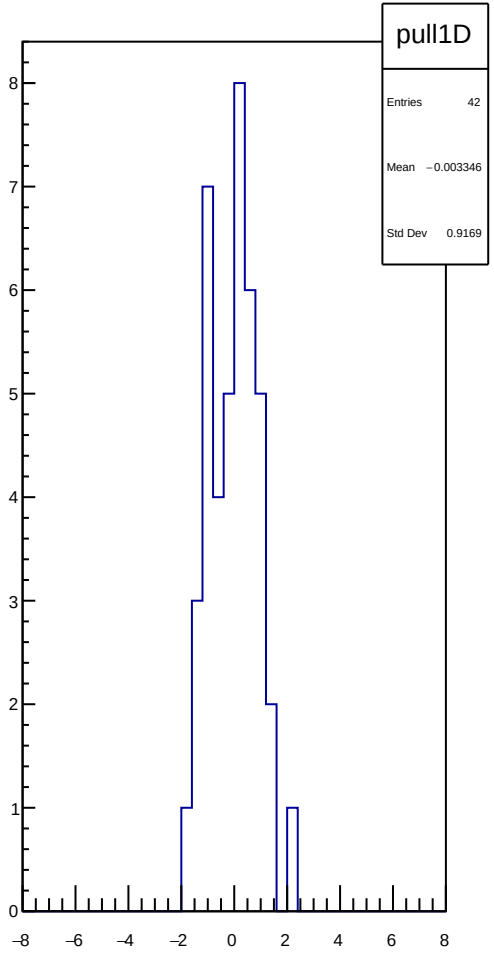

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 40.72 / 41
p0 −44.95 ± 2.184
−20
−40
−60
−80
−100
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −1.386
Std Dev 38.05
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 42
Mean −0.02031
Std Dev 0.9845
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

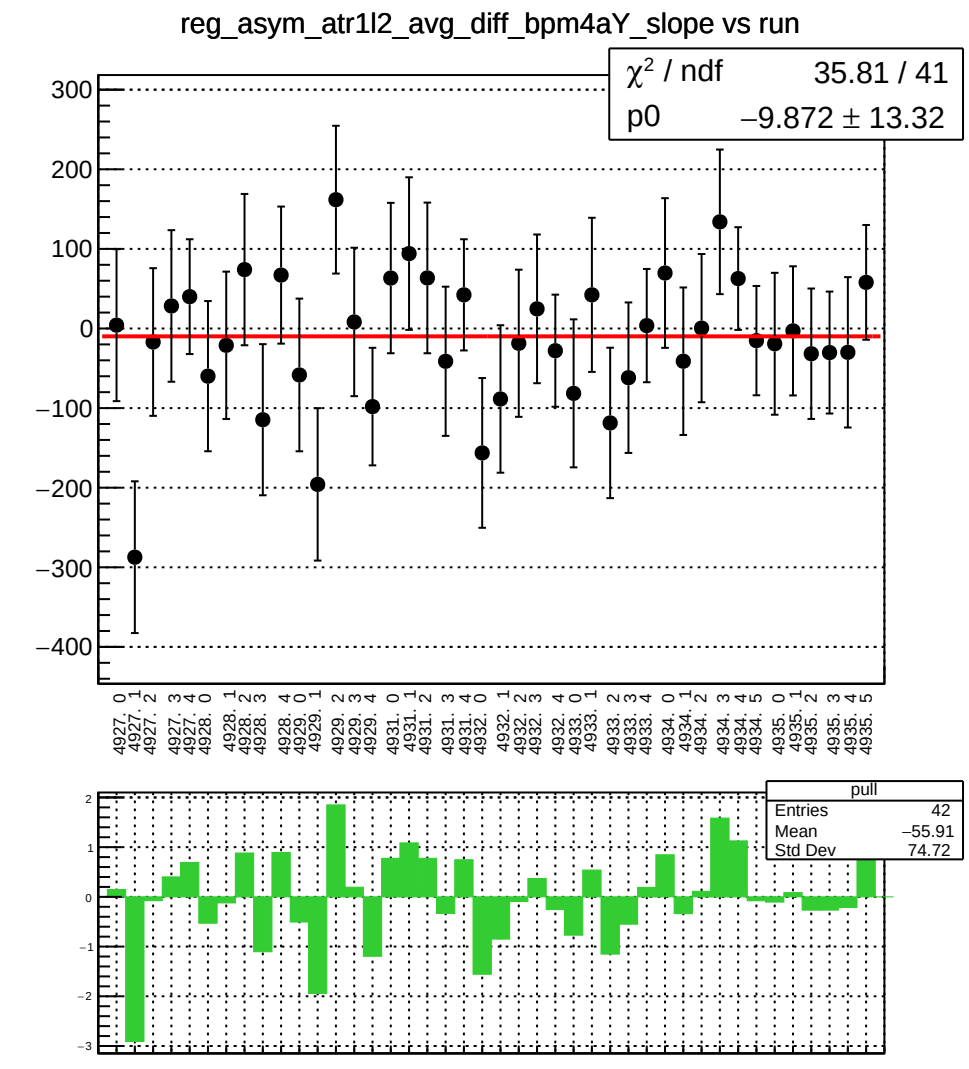

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 49.92 / 41
p0 −31.66 ± 14.67
300
200
100
0
−100
−200
−300
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −13.09
Std Dev 53.83
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 42
Mean 0.0218
Std Dev 1.09
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

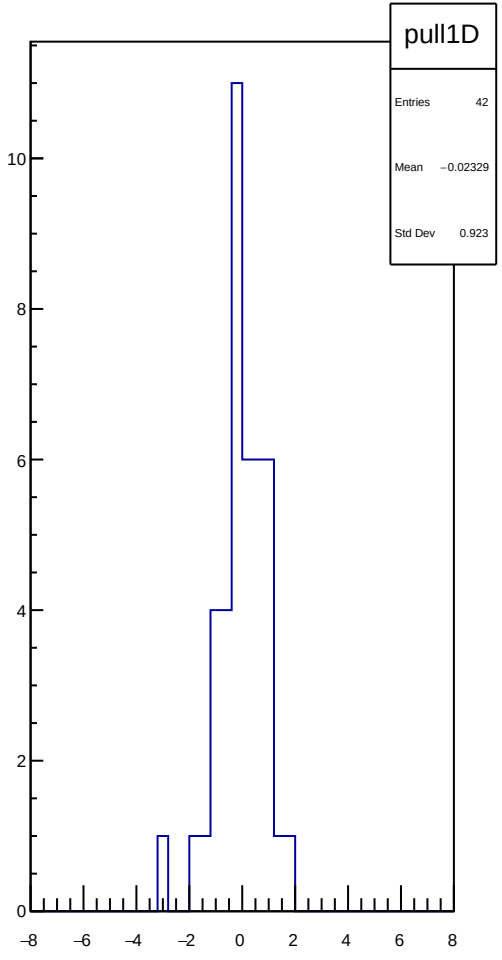

reg_asym_atl1r2_dd_diff_bpm11X_slope vs run
χ² / ndf 42.3 / 41
p0 20.54 ± 3.498
pull
Entries 42
Mean 115.1
Std Dev 75.43

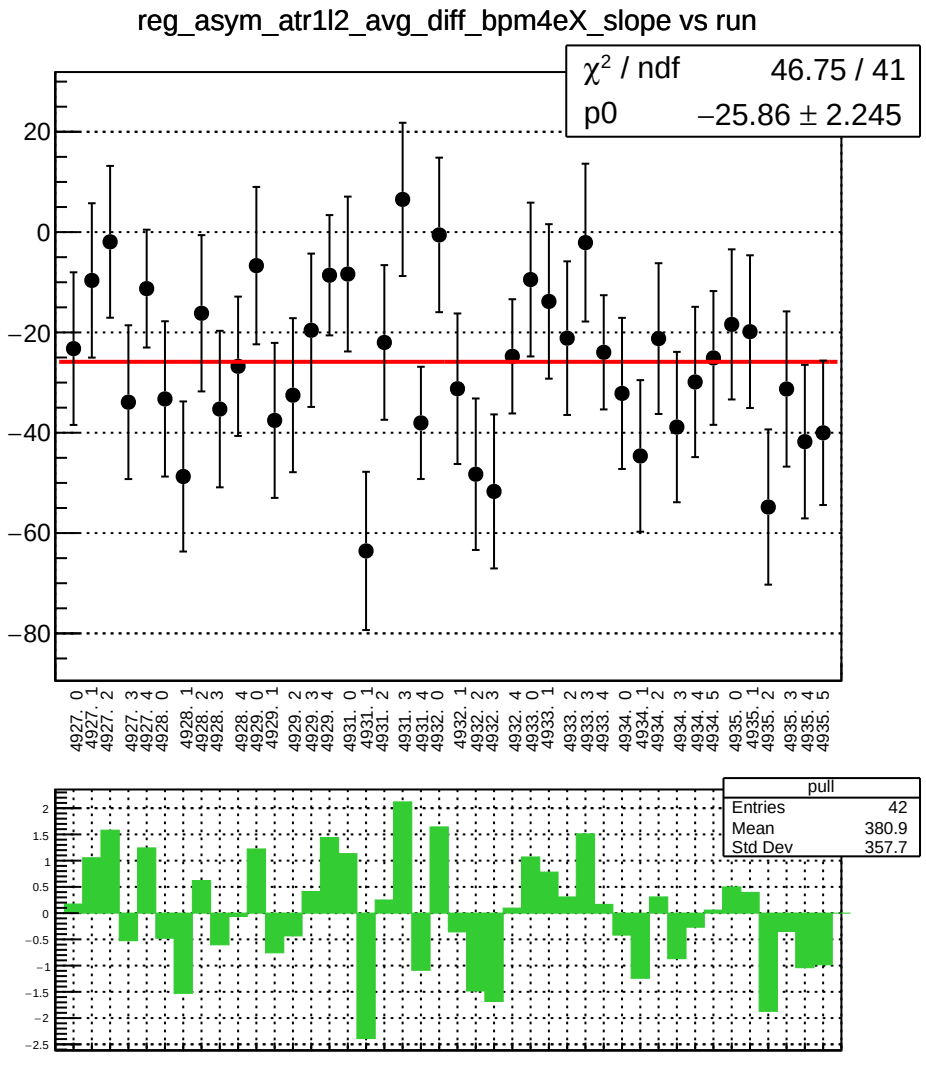

pull1D
Entries 42
Mean −0.01639
Std Dev 1.003

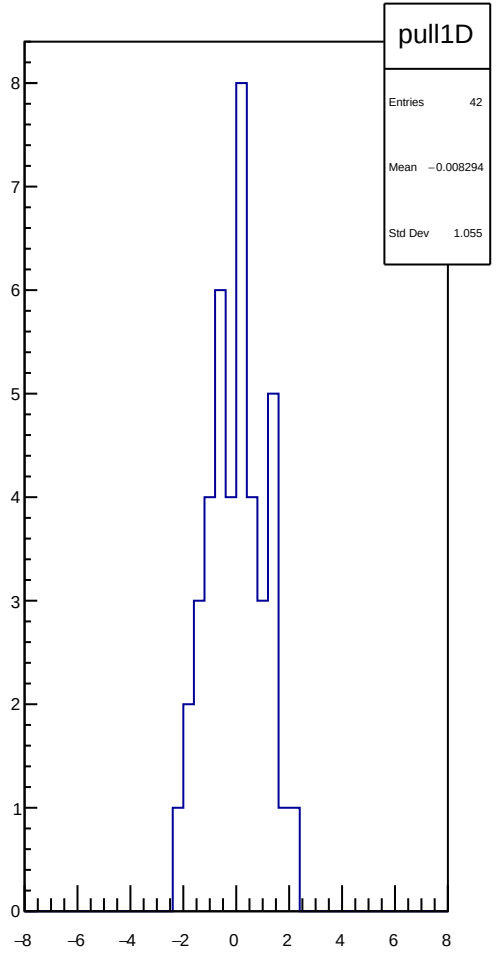

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 35.31 / 41
p0 40.03 ± 10.62
300
200
100
0
−100
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 412.8
Std Dev 398.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

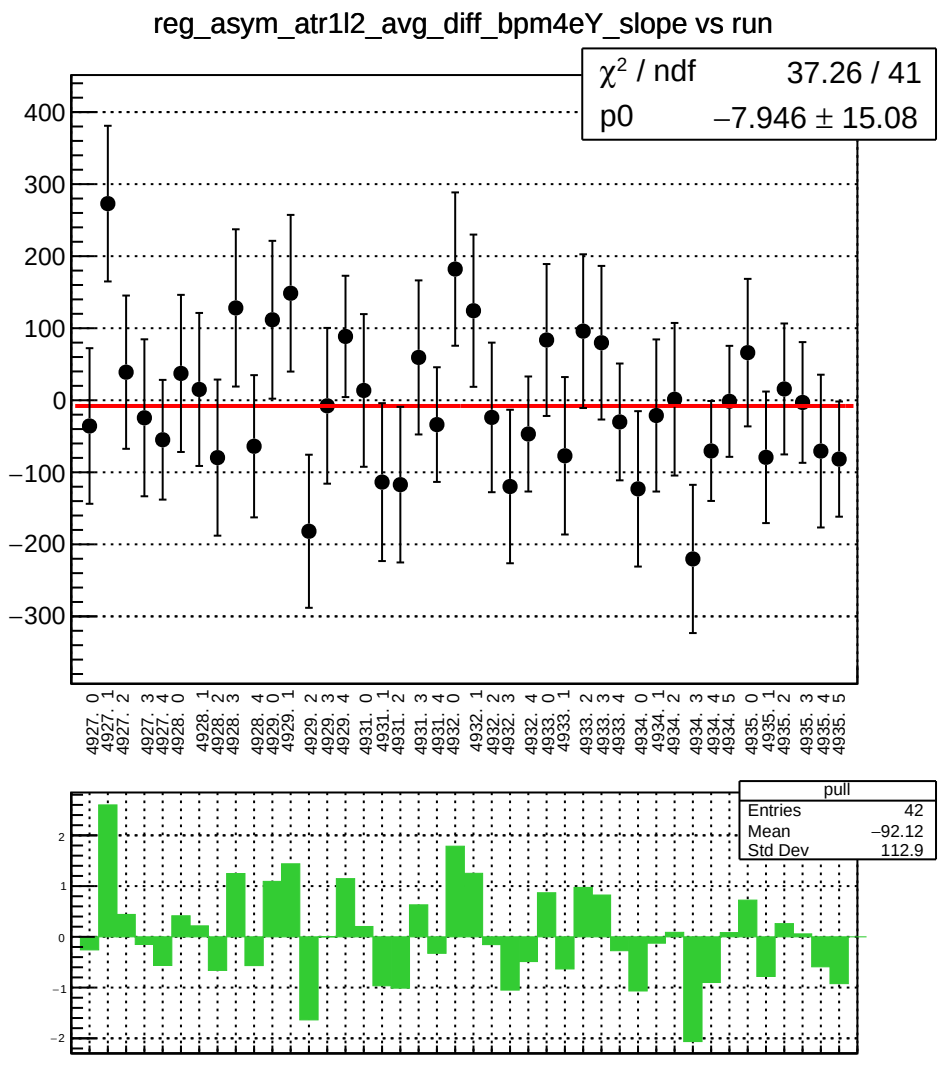

pull1D
Entries 42
Mean −0.003346
Std Dev 0.9169
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

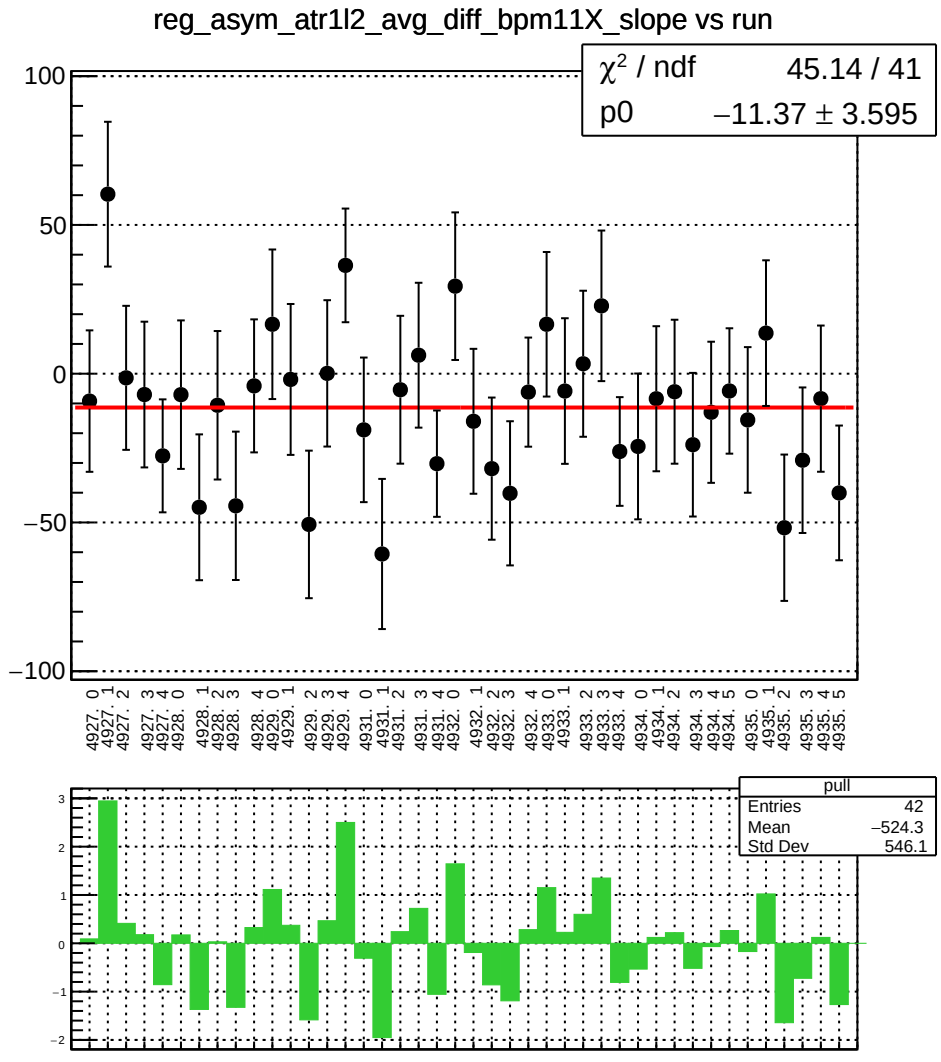

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 35.81 / 41
p0 −9.872 ± 13.32
300
200
100
0
−100
−200
−300
−400
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −55.91
Std Dev 74.72
2
1
0
−1
−2
−3

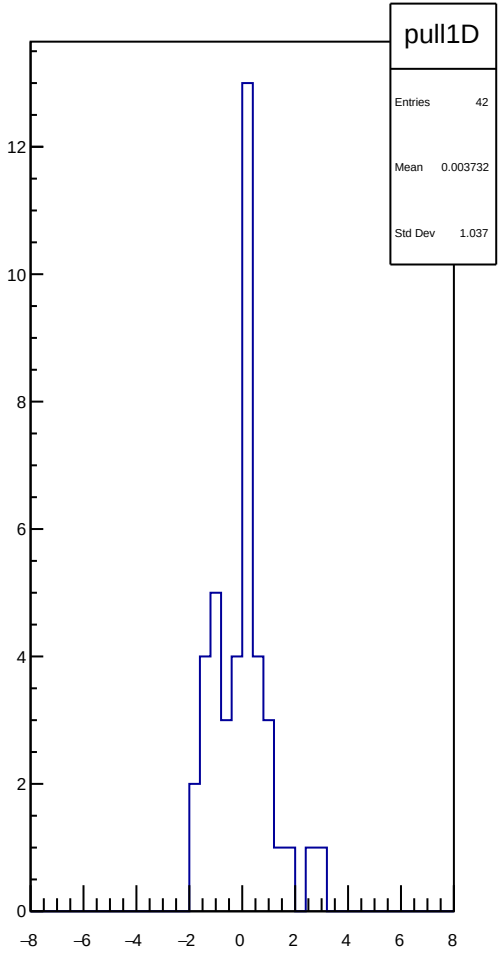

pull1D
Entries 42
Mean −0.02329
Std Dev 0.923
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

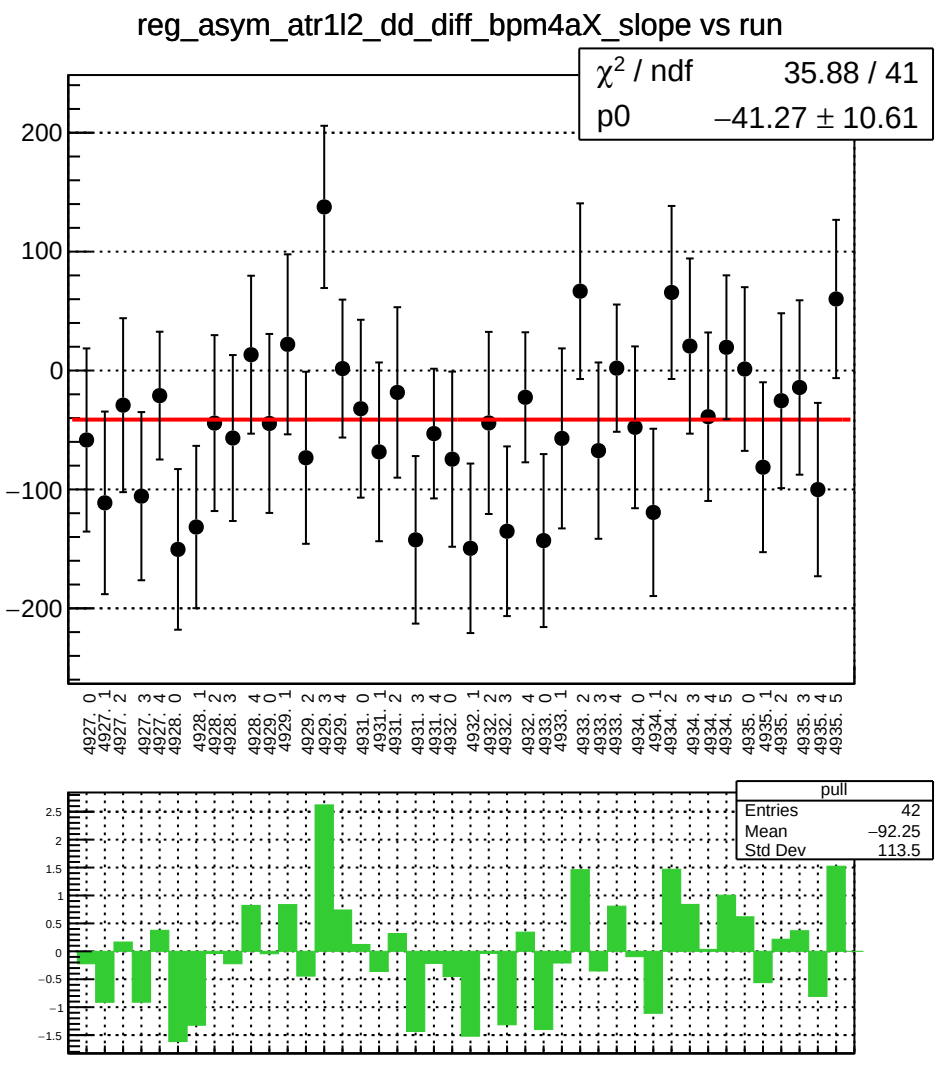

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 46.75 / 41
p0 −25.86 ± 2.245
pull
Entries 42
Mean 380.9
Std Dev 357.7

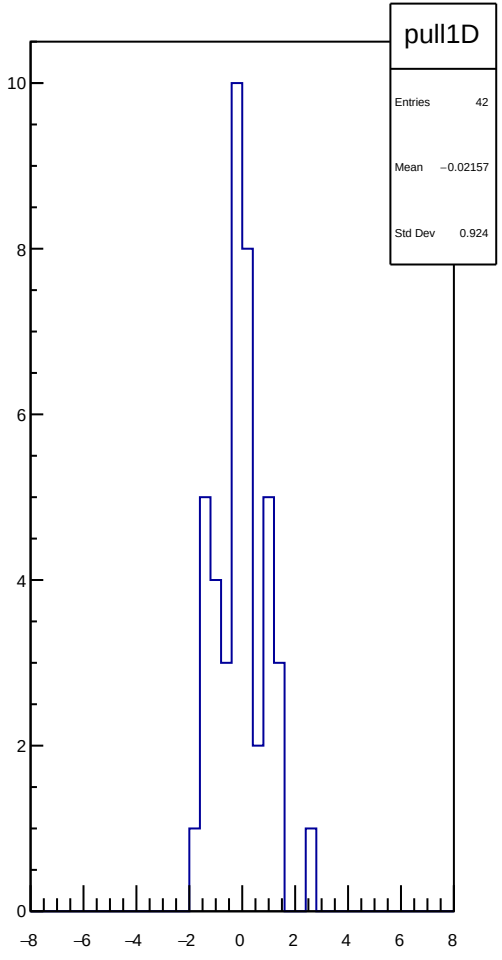

pull1D
Entries 42
Mean −0.008294
Std Dev 1.055

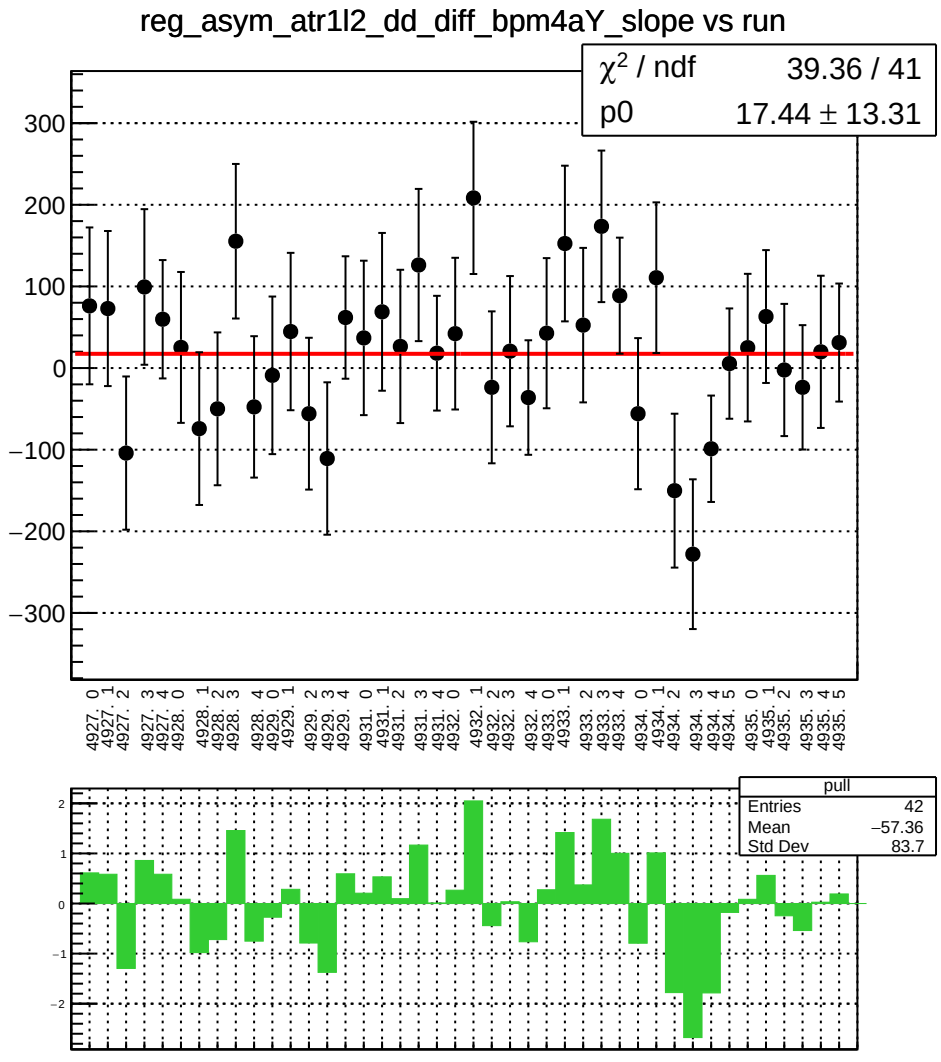

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 37.26 / 41
p0 −7.946 ± 15.08
400
300
200
100
0
−100
−200
−300
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −92.12
Std Dev 112.9
2
1
0
−1
−2
pull1D
Entries 42
Mean 0.02783
Std Dev 0.9414
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

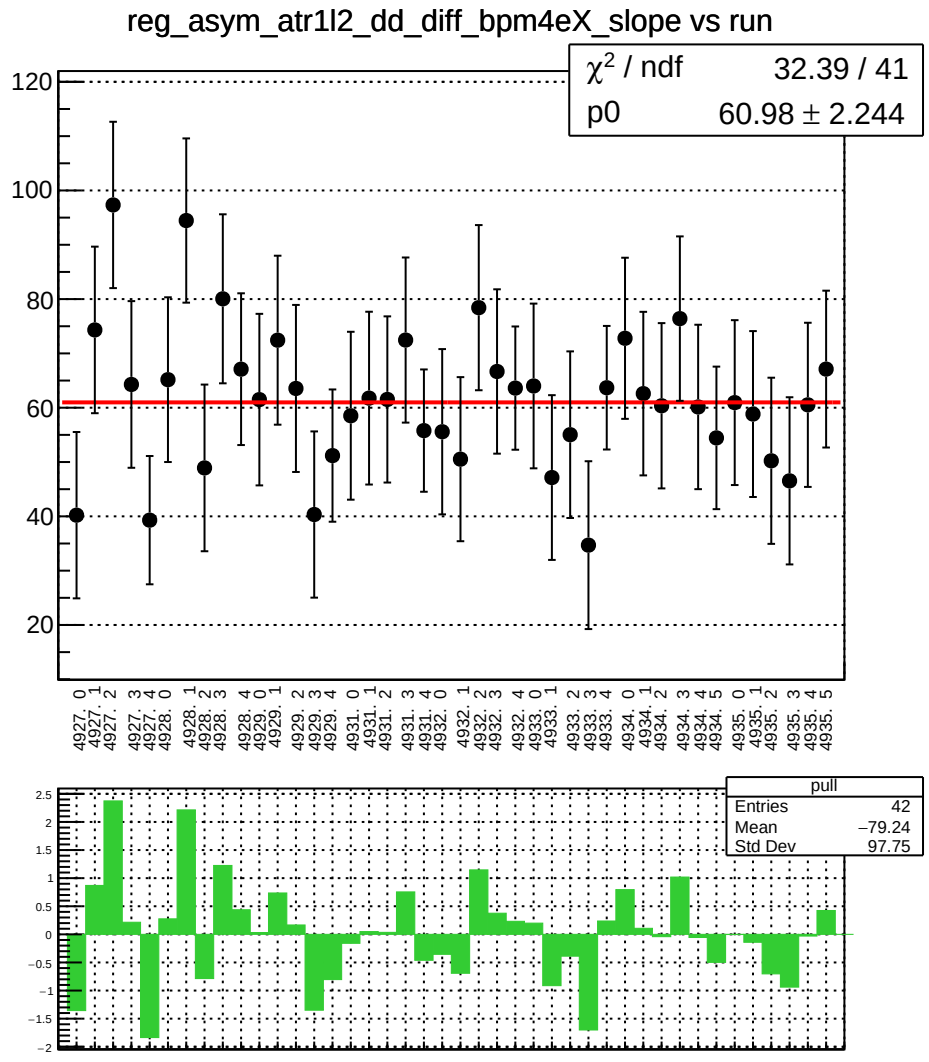

reg_asym_atr1l2_avg_diff_bpm11X_slope vs run
χ² / ndf 45.14 / 41
p0 −11.37 ± 3.595
100
50
0
−50
−100
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −524.3
Std Dev 546.1
3
2
1
0
−1
−2

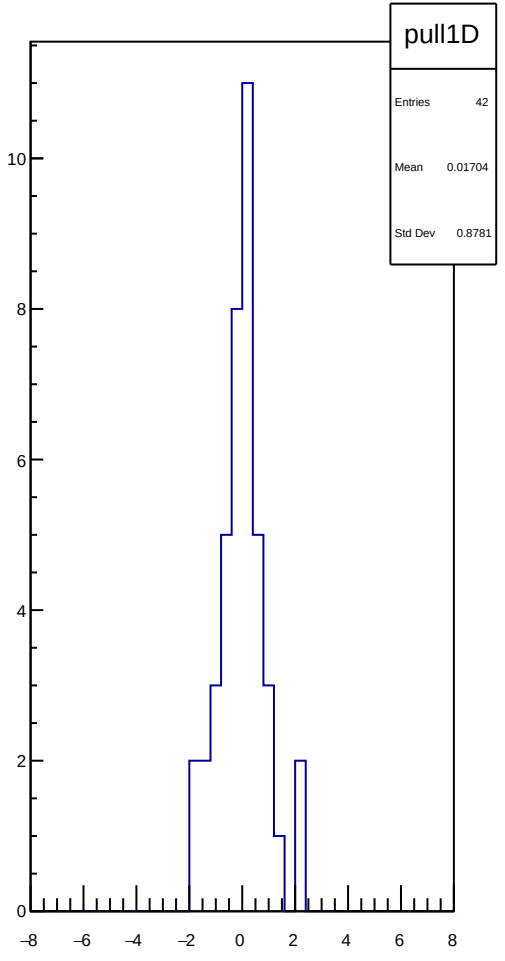

pull1D
Entries 42
Mean 0.003732
Std Dev 1.037
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

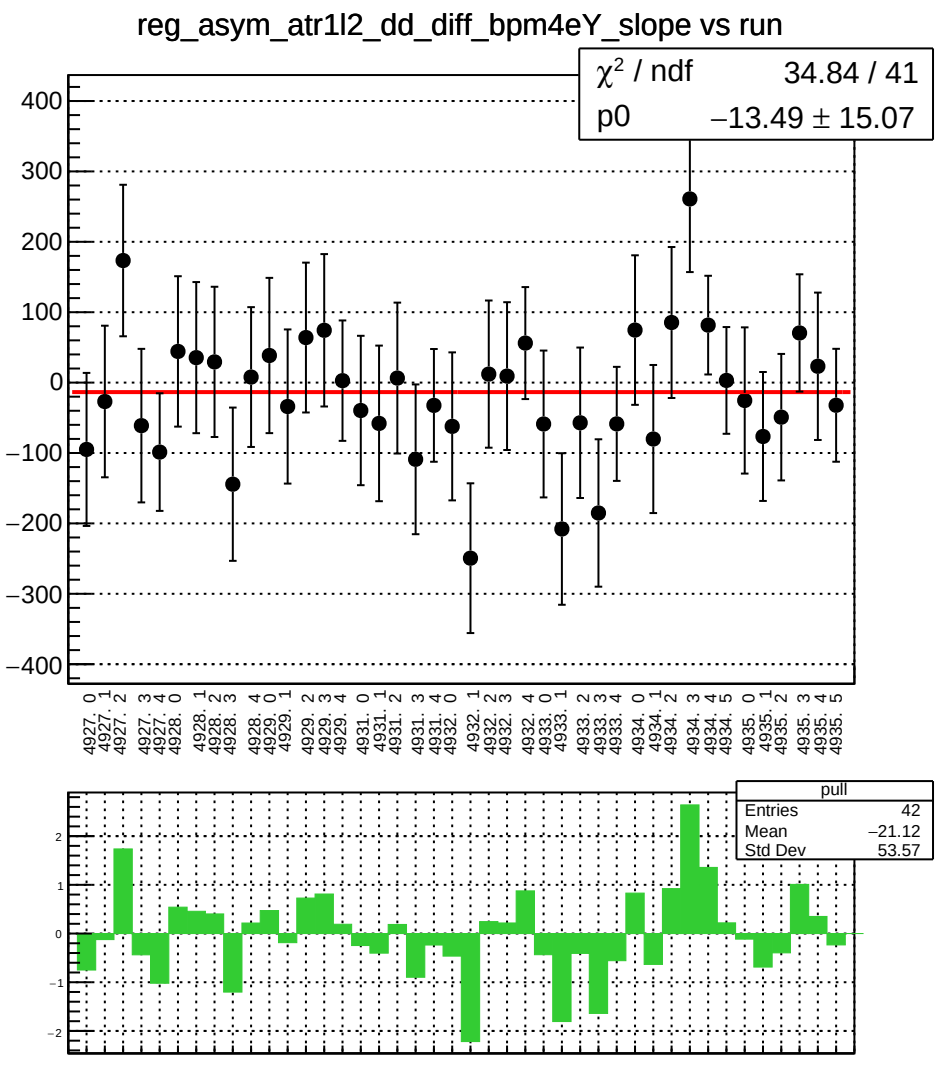

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 35.88 / 41
p0 −41.27 ± 10.61
200
100
0
−100
−200
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −92.25
Std Dev 113.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

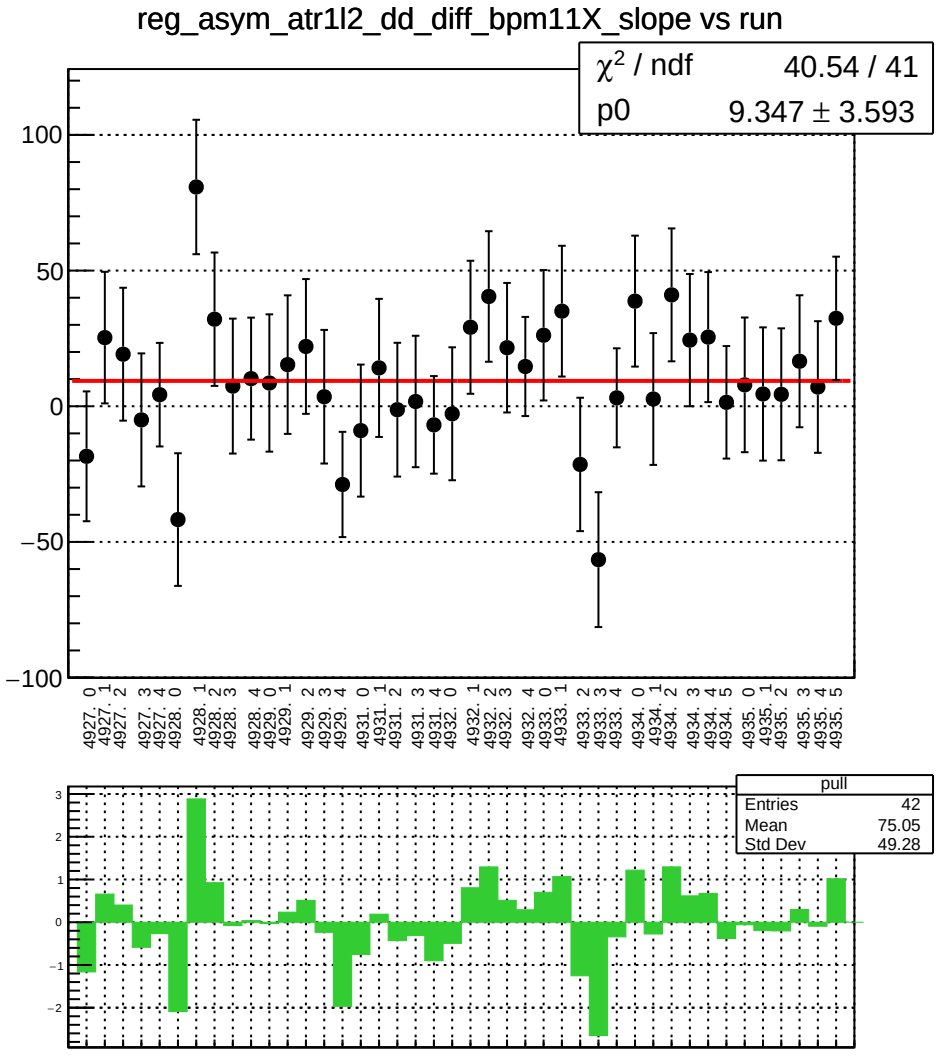

pull1D
Entries 42
Mean −0.02157
Std Dev 0.924
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

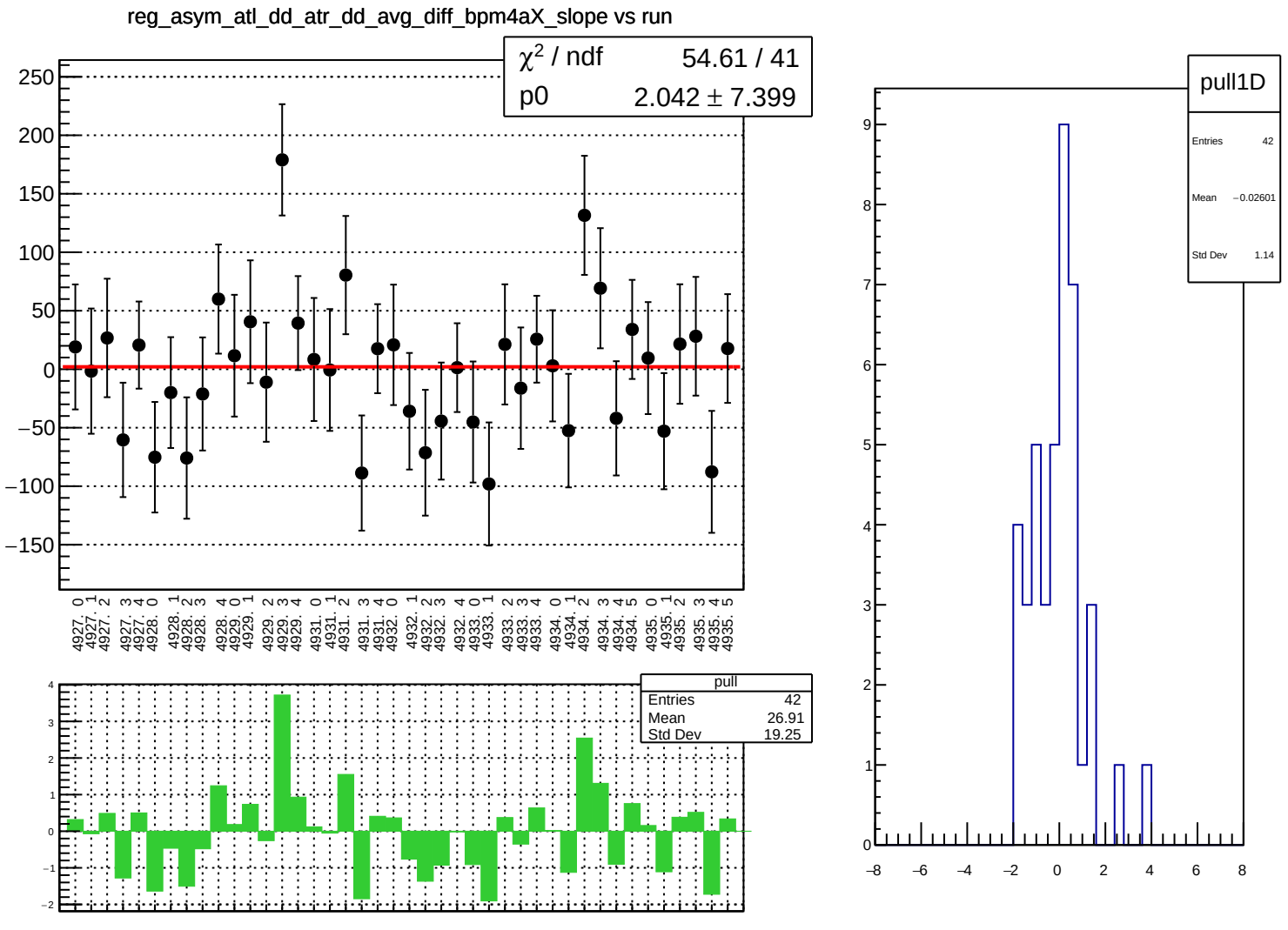

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 39.36 / 41
p0 17.44 ± 13.31
300
200
100
0
−100
−200
−300
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −57.36
Std Dev 83.7
2
1
0
−1
−2
pull1D
Entries 42
Mean 0.01568
Std Dev 0.9679
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

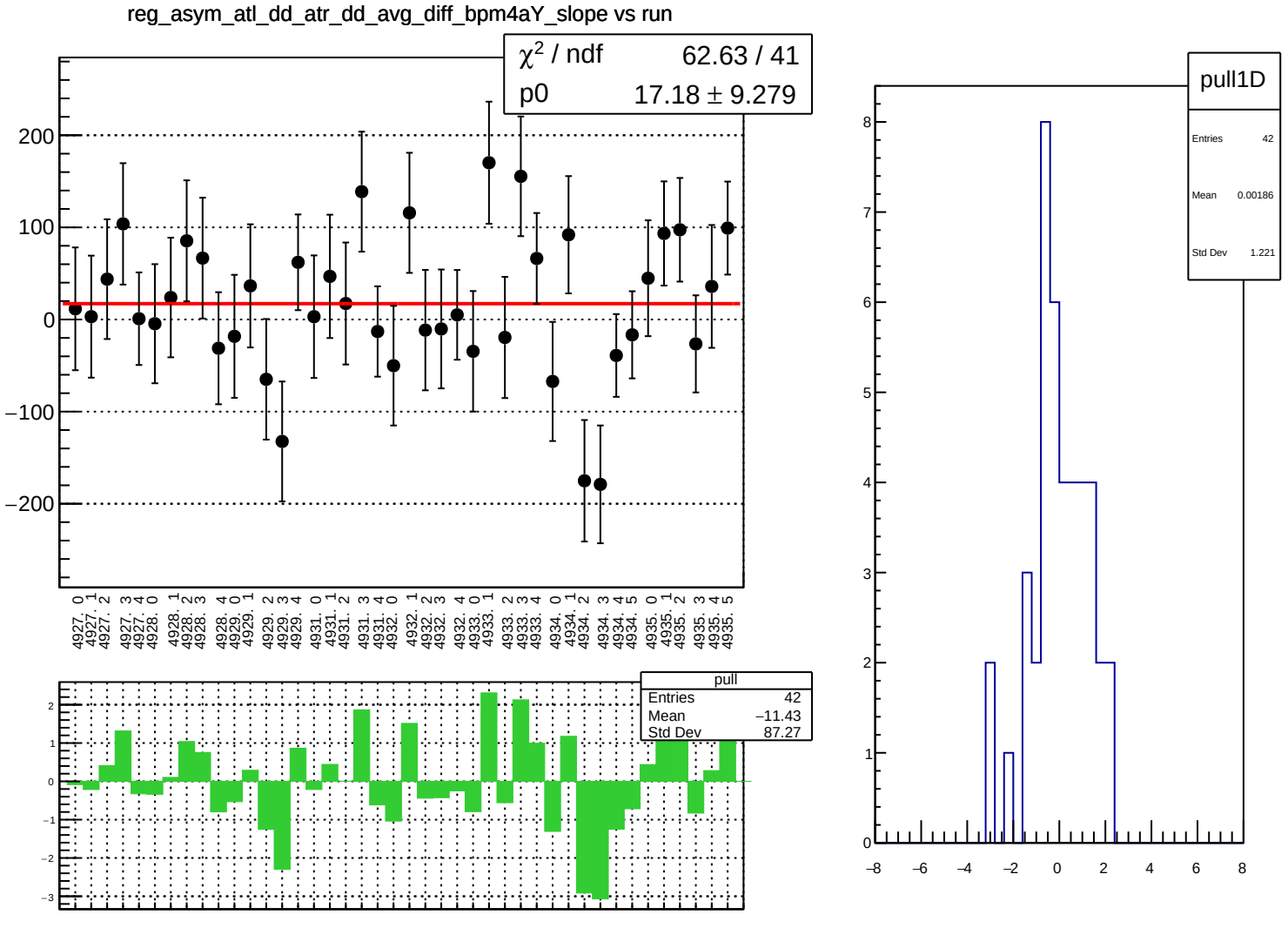

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 32.39 / 41
p0 60.98 ± 2.244
pull
Entries 42
Mean −79.24
Std Dev 97.75

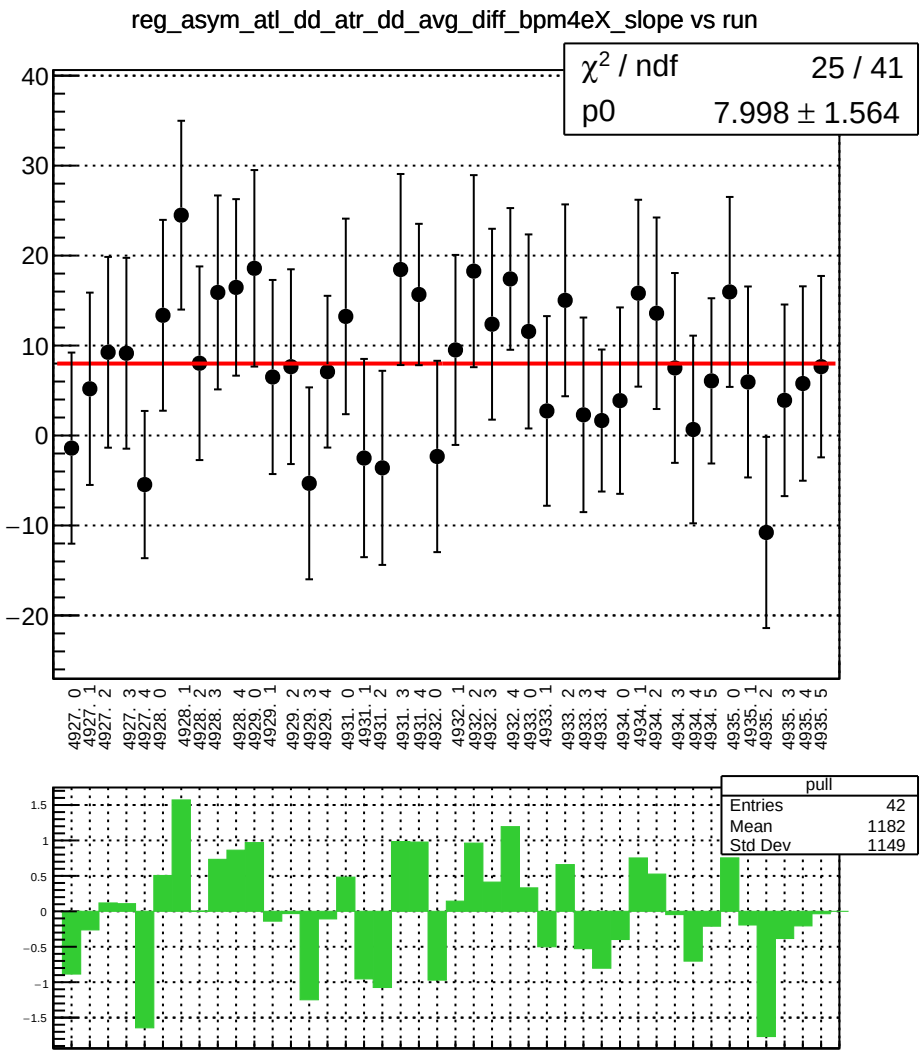

pull1D
Entries 42
Mean 0.01704
Std Dev 0.8781

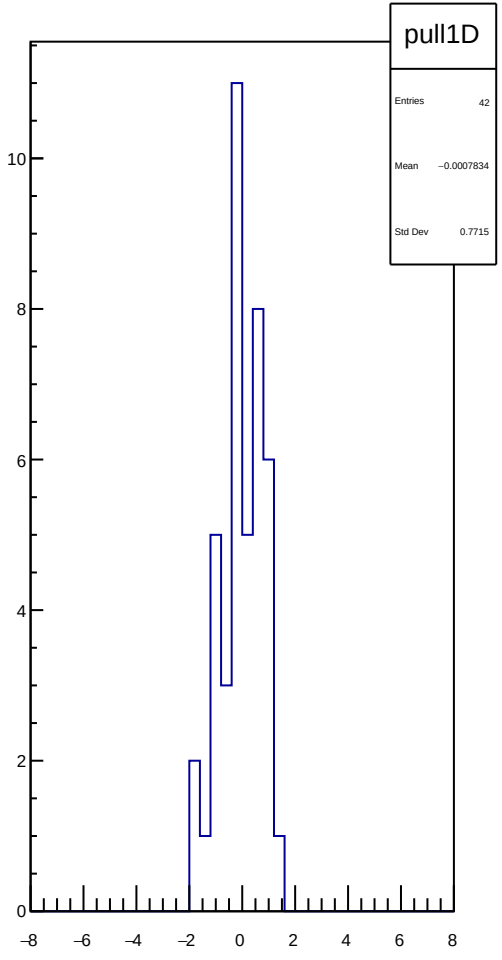

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 34.84 / 41
p0 −13.49 ± 15.07
400
300
200
100
0
−100
−200
−300
−400
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −21.12
Std Dev 53.57
2
1
0
−1
−2
pull1D
Entries 42
Mean −0.01648
Std Dev 0.9107
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

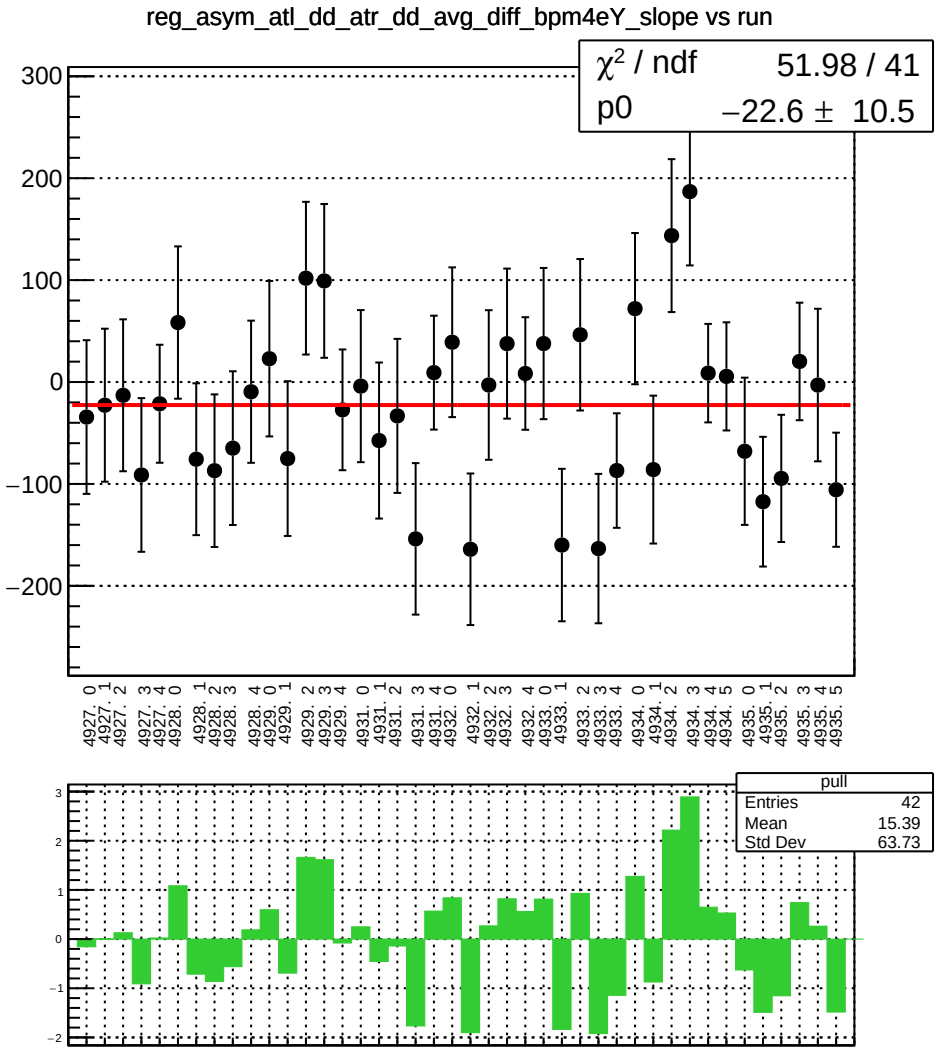

reg_asym_atr1l2_dd_diff_bpm11X_slope vs run
χ² / ndf 40.54 / 41
p0 9.347 ± 3.593
100
50
0
−50
−100
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 75.05
Std Dev 49.28
3
2
1
0
−1
−2
pull1D
Entries 42
Mean 0.02058
Std Dev 0.9823
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

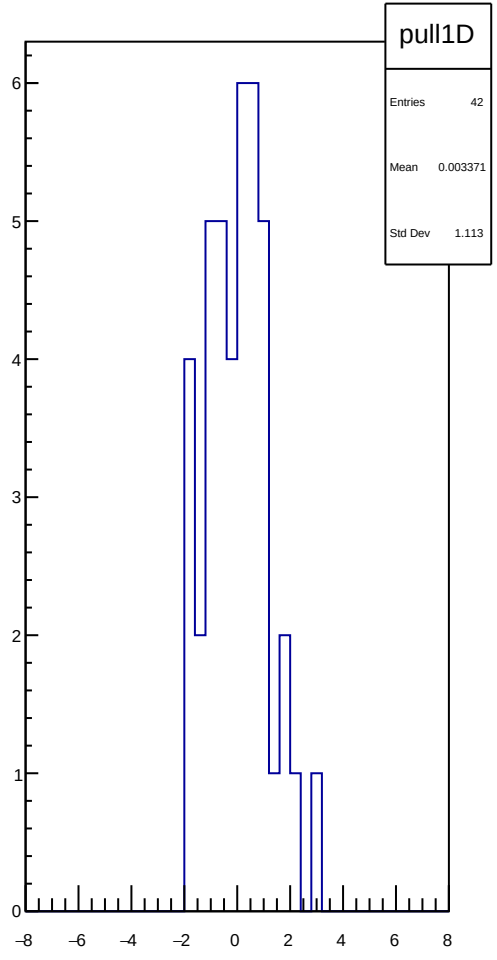

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aX_slope vs run
χ² / ndf 54.61 / 41
p0 2.042 ± 7.399
250
200
150
100
50
0
−50
−100
−150
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 26.91
Std Dev 19.25
4
3
2
1
0
−1
−2
pull1D
Entries 42
Mean −0.02601
Std Dev 1.14
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

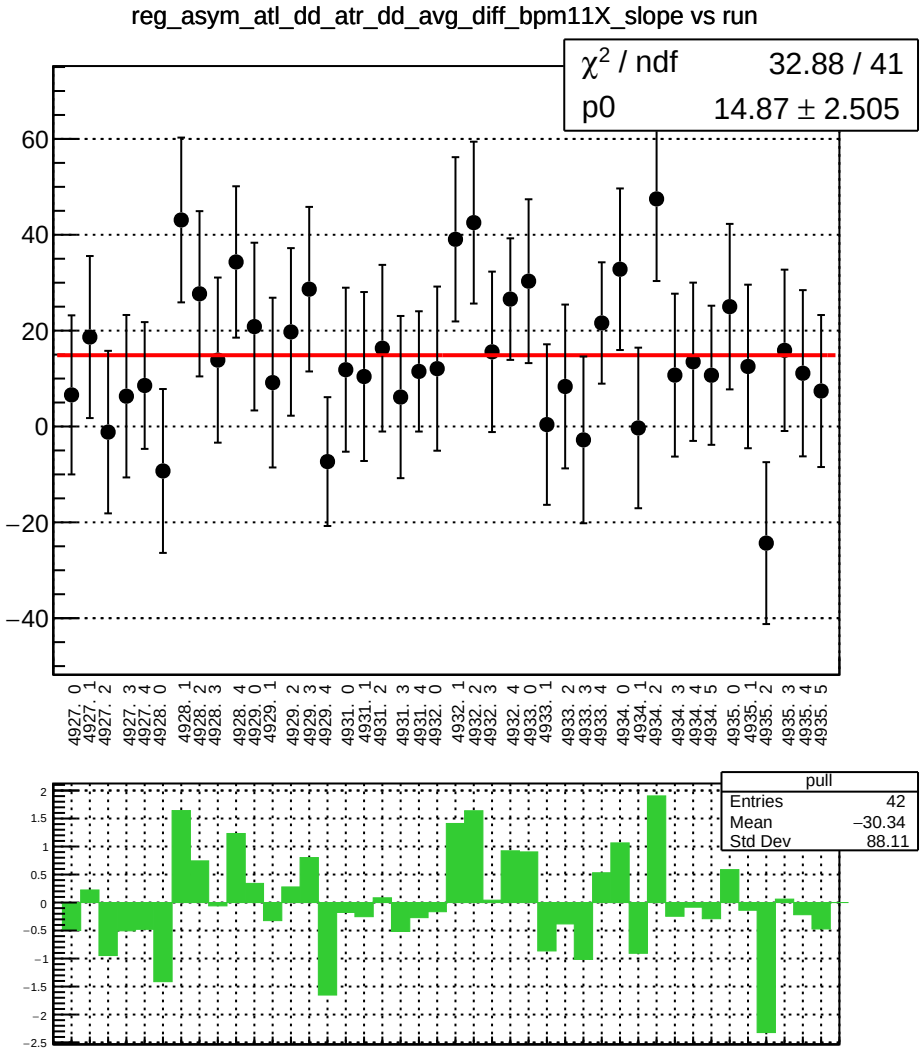

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 62.63 / 41
p0 17.18 ± 9.279
200
100
0
−100
−200
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −11.43
Std Dev 87.27
2
1
0
−1
−2
−3
pull1D
Entries 42
Mean 0.00186
Std Dev 1.221
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

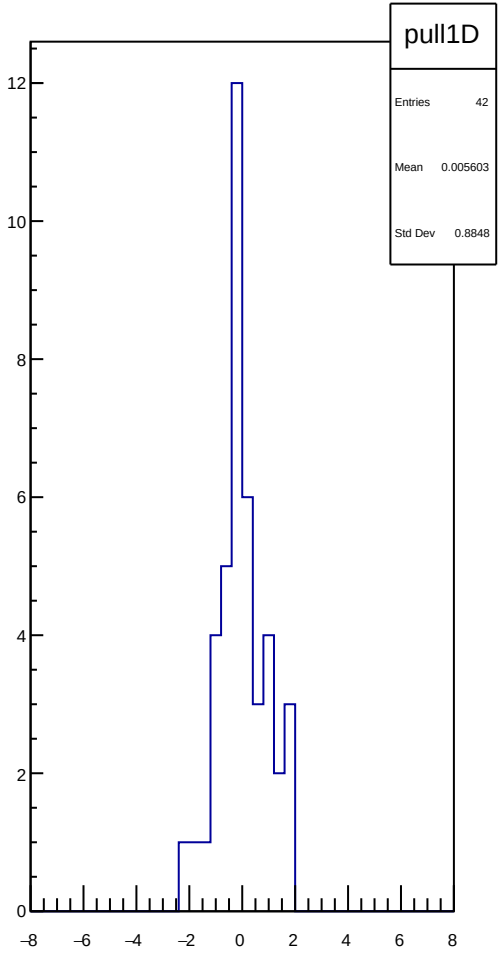

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 25 / 41
p0 7.998 ± 1.564
pull
Entries 42
Mean 1182
Std Dev 1149

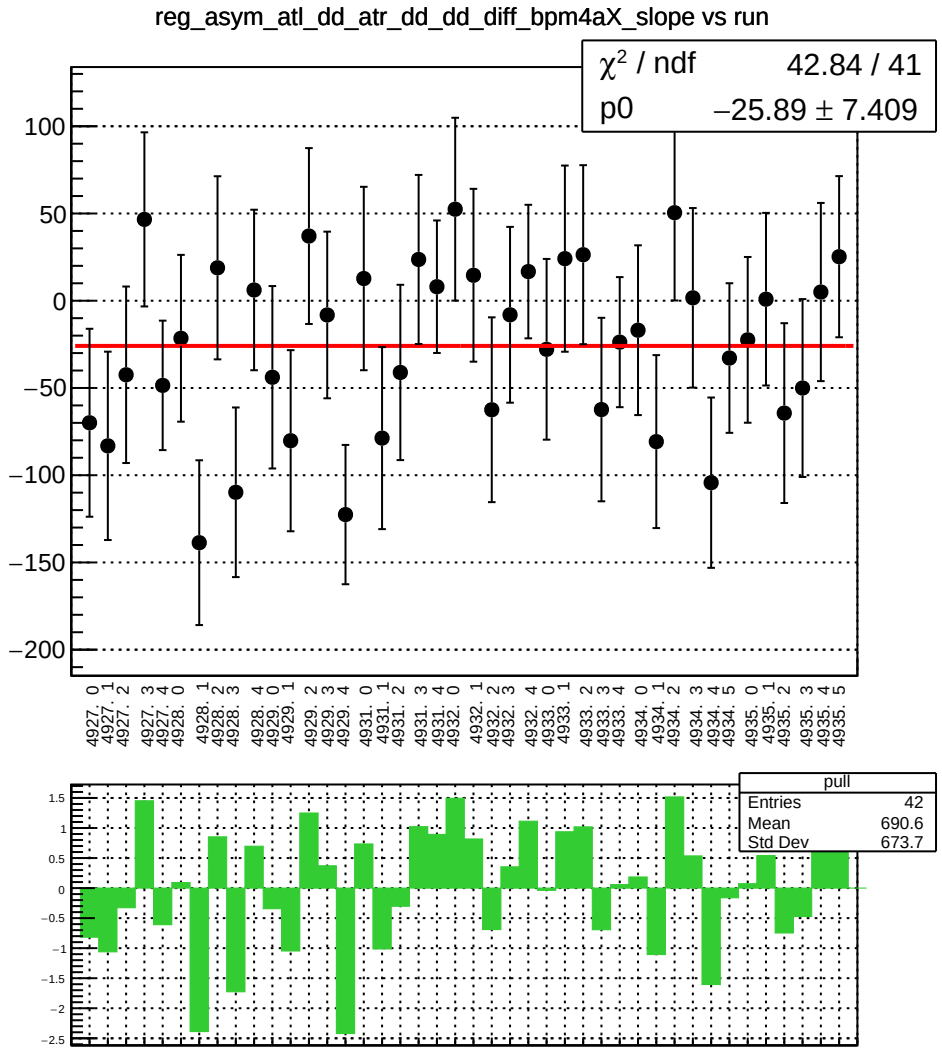

pull1D
Entries 42
Mean −0.0007834
Std Dev 0.7715

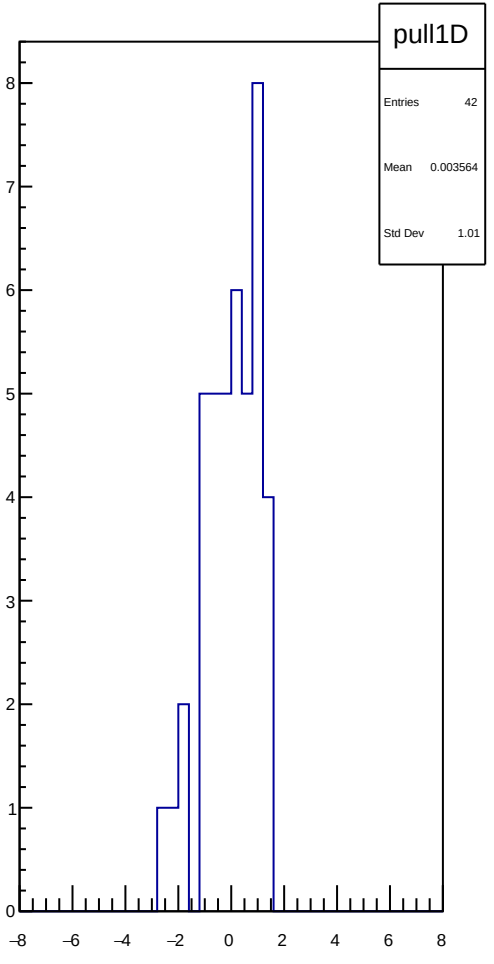

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 51.98 / 41
p0 −22.6 ± 10.5
300
200
100
0
−100
−200
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 15.39
Std Dev 63.73
3
2
1
0
−1
−2

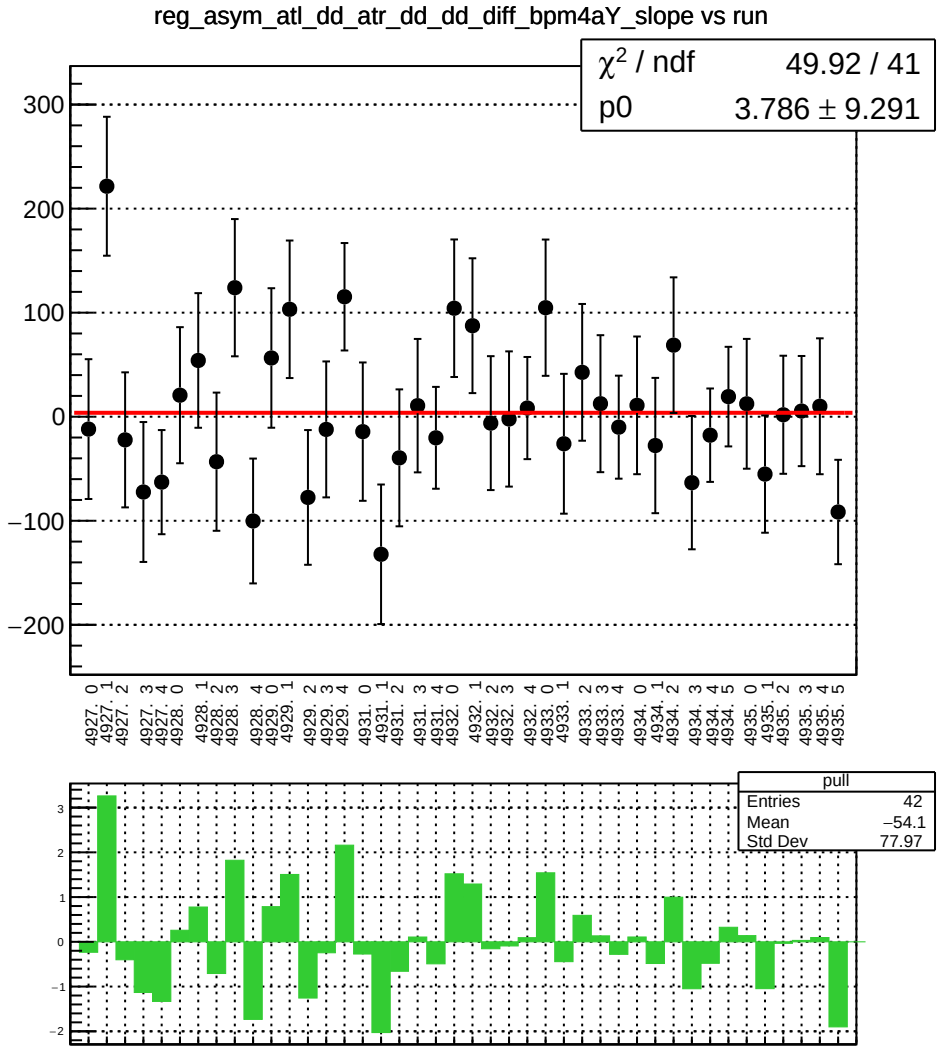

pull1D
Entries 42
Mean 0.003371
Std Dev 1.113
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

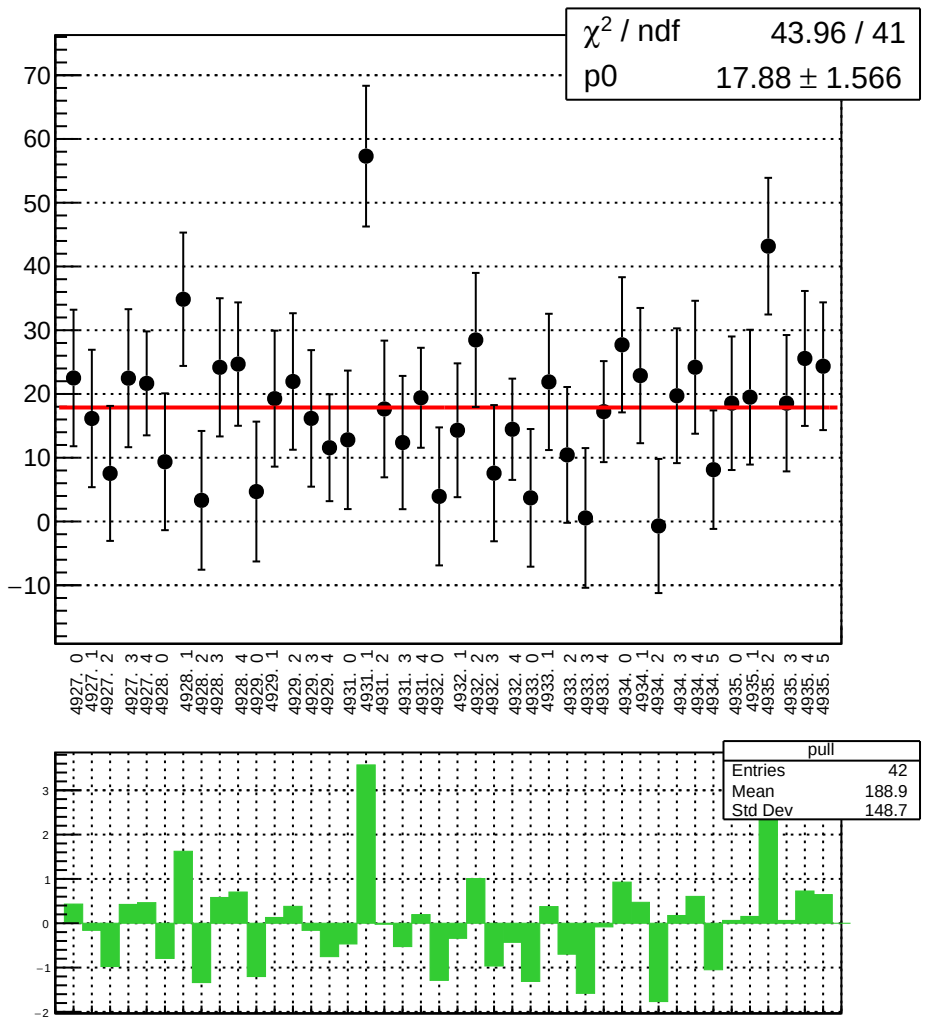

reg_asym_atl_dd_atr_dd_avg_diff_bpm11X_slope vs run
χ² / ndf 32.88 / 41
p0 14.87 ± 2.505
pull
Entries 42
Mean −30.34
Std Dev 88.11

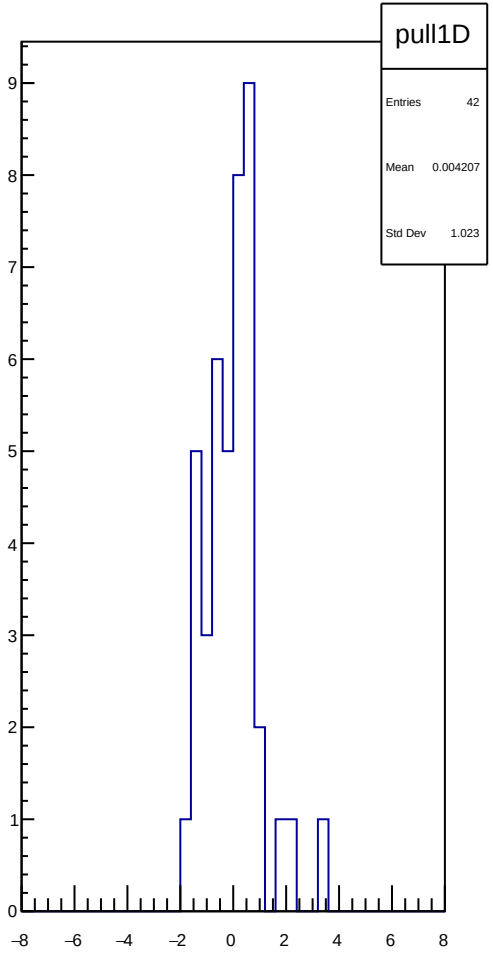

pull1D
Entries 42
Mean 0.005603
Std Dev 0.8848

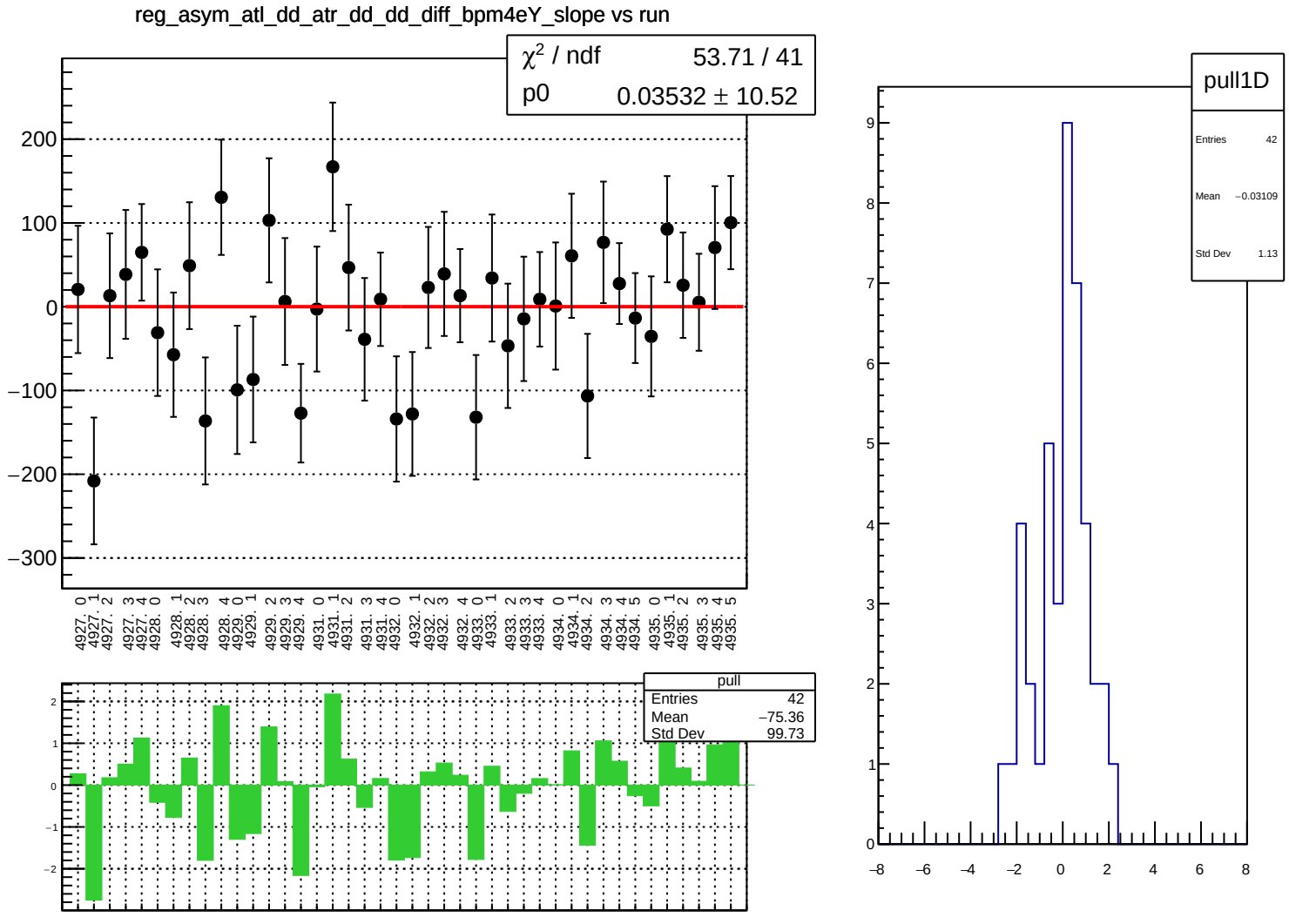

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aX_slope vs run
χ² / ndf 42.84 / 41
p0 −25.89 ± 7.409
pull
Entries 42
Mean 690.6
Std Dev 673.7

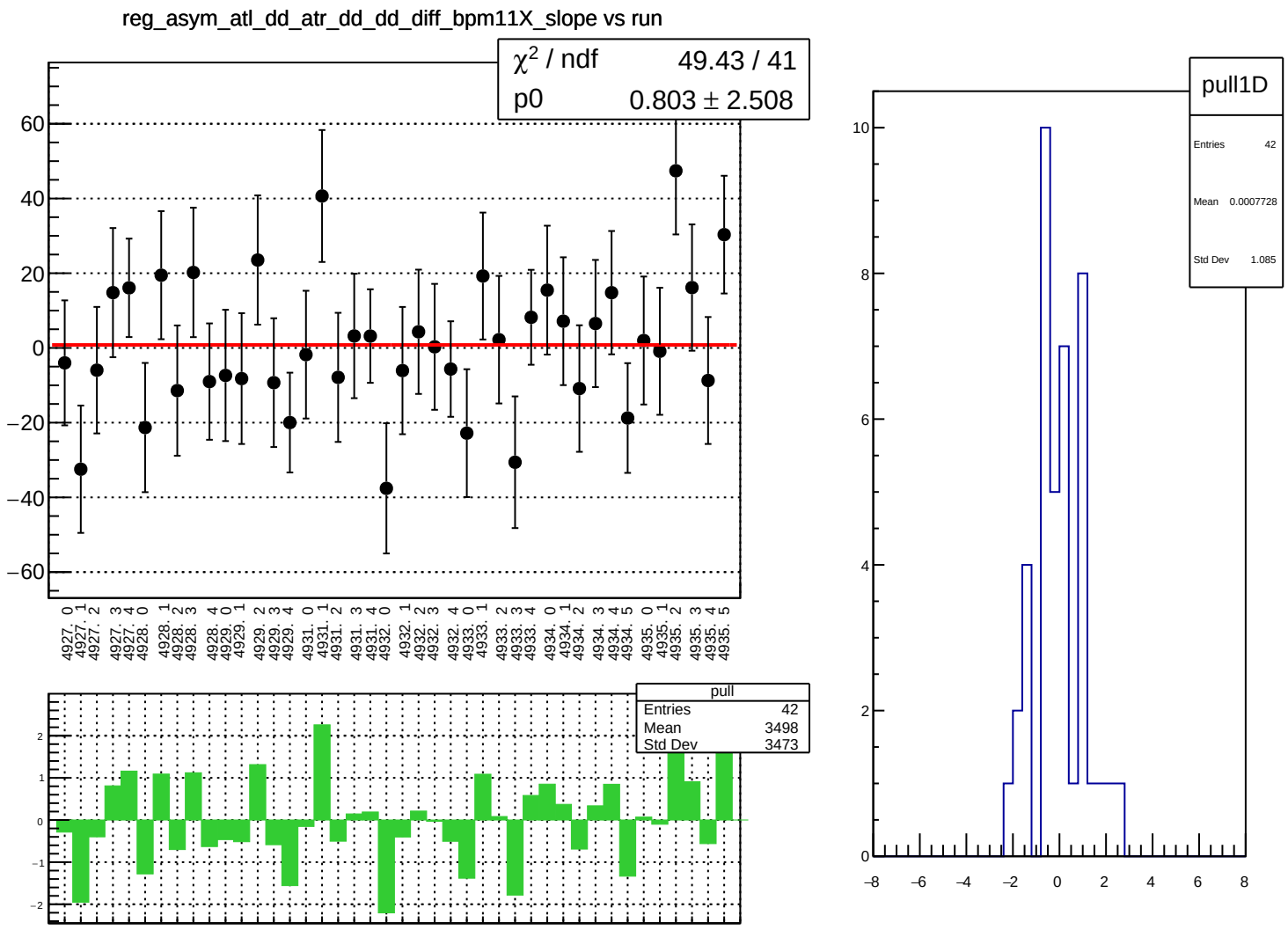

pull1D
Entries 42
Mean 0.003564
Std Dev 1.01

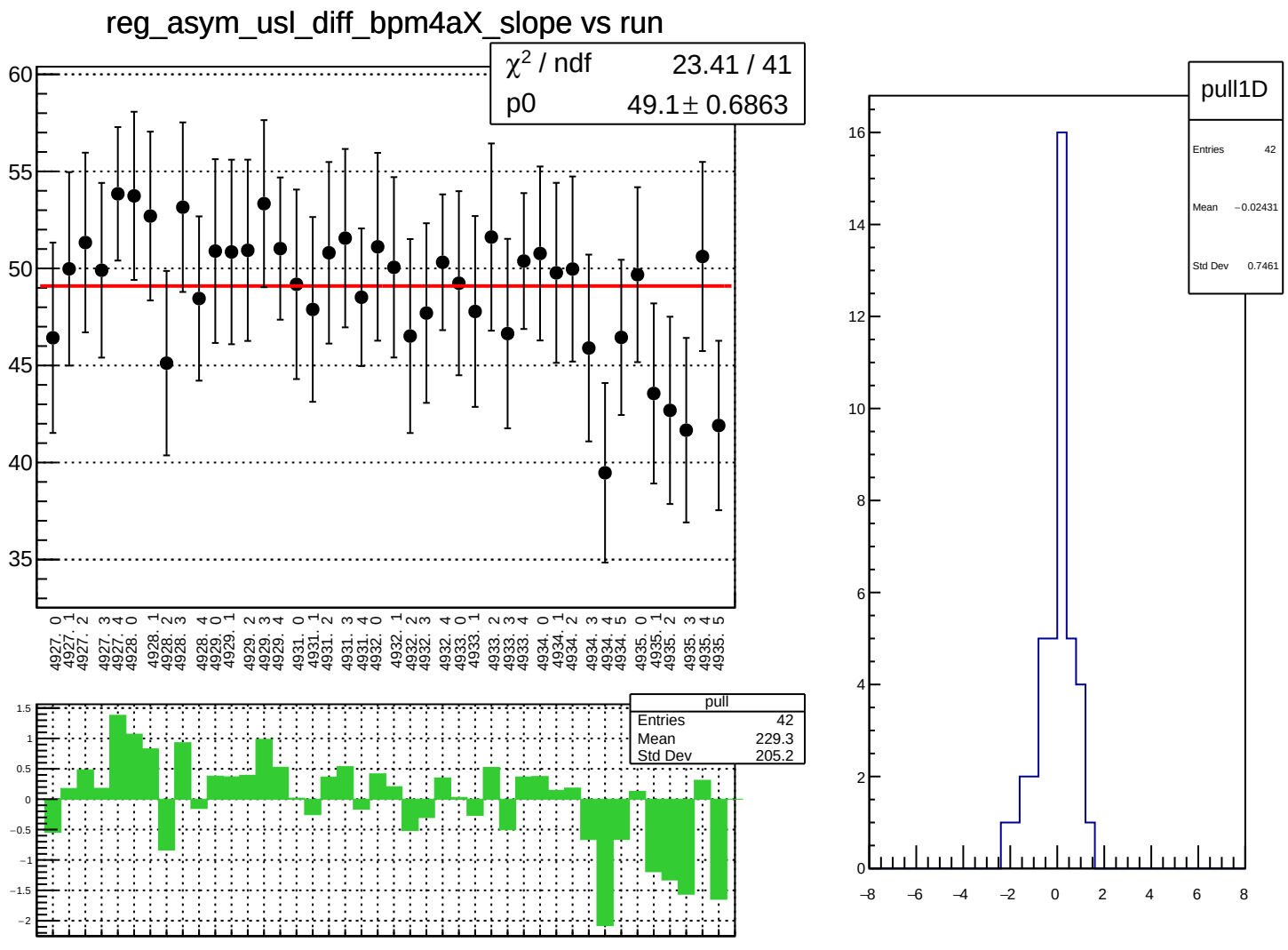

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 49.92 / 41
p0 3.786 ± 9.291
pull
Entries 42
Mean −54.1
Std Dev 77.97
pull1D
Entries 42
Mean 0.02594
Std Dev 1.09

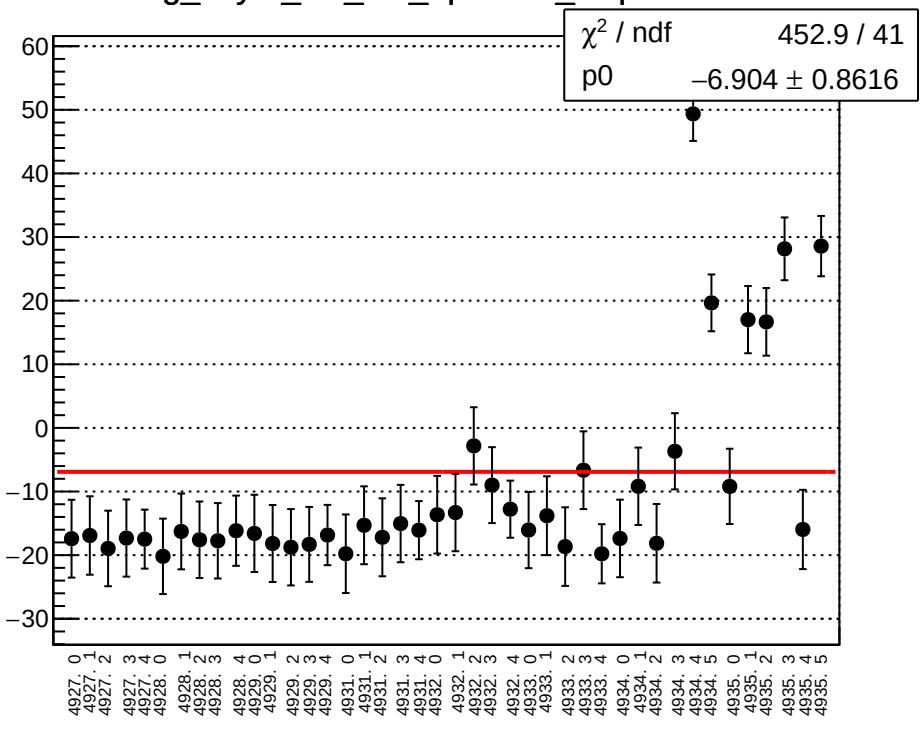

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 43.96 / 41
p0 17.88 ± 1.566
pull
Entries 42
Mean 188.9
Std Dev 148.7

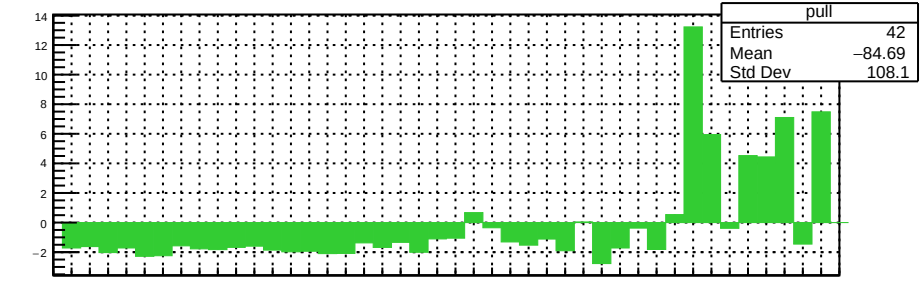

pull1D
Entries 42
Mean 0.004207
Std Dev 1.023

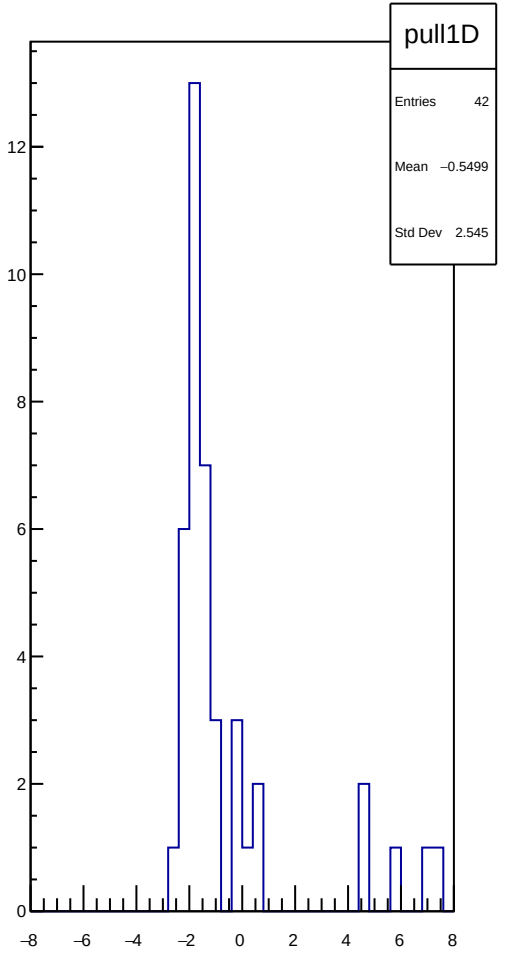

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 53.71 / 41
p0 0.03532 ± 10.52
200
100
0
−100
−200
−300
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −75.36
Std Dev 99.73
2
1
0
−1
−2
pull1D
Entries 42
Mean −0.03109
Std Dev 1.13
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

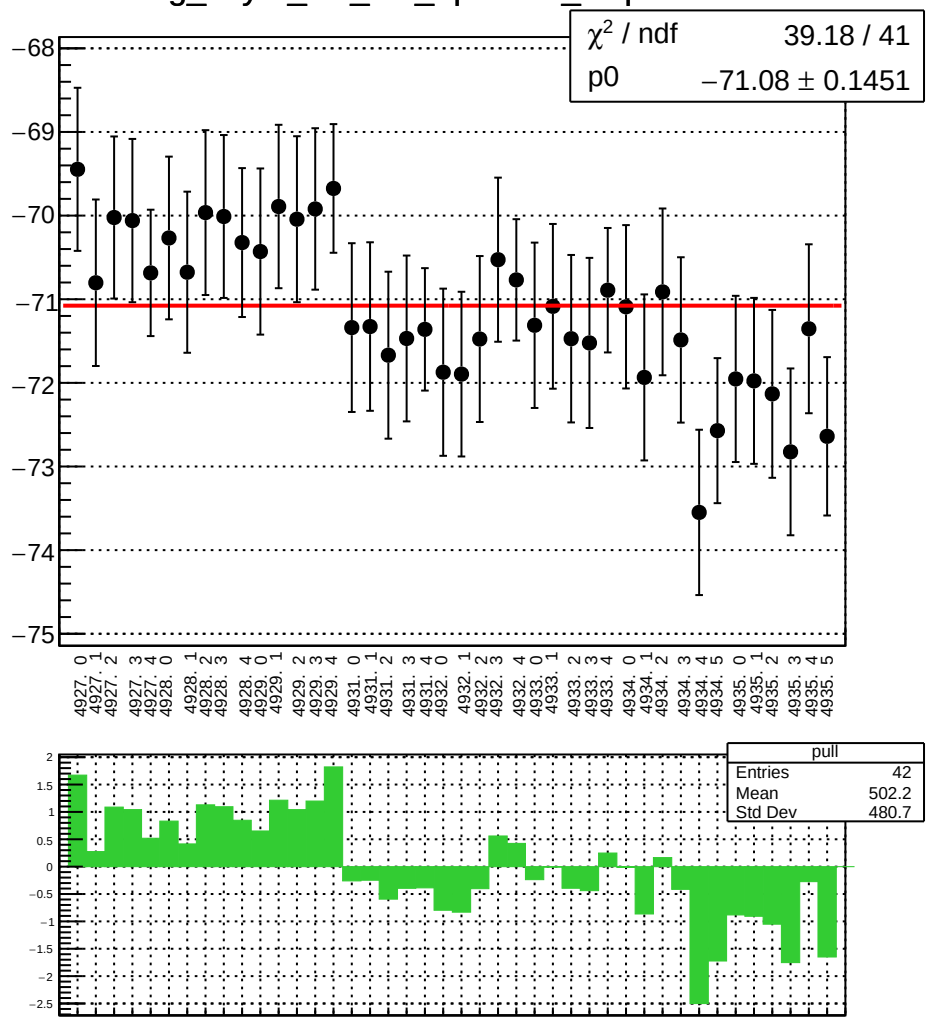

reg_asym_atl_dd_atr_dd_dd_diff_bpm11X_slope vs run
χ² / ndf 49.43 / 41
p0 0.803 ± 2.508
pull
Entries 42
Mean 3498
Std Dev 3473
pull1D
Entries 42
Mean 0.0007728
Std Dev 1.085

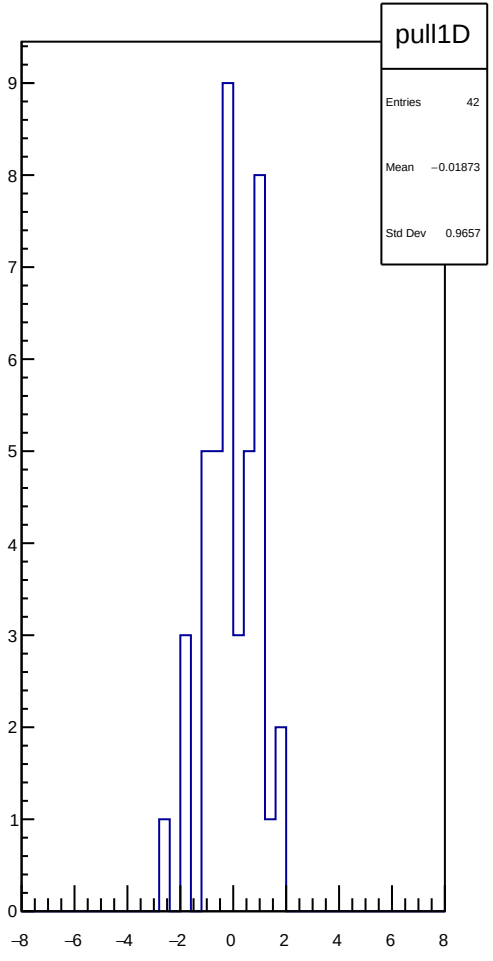

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 23.41 / 41
p0 49.1 ± 0.6863
pull
Entries 42
Mean 229.3
Std Dev 205.2
pull1D
Entries 42
Mean −0.02431
Std Dev 0.7461

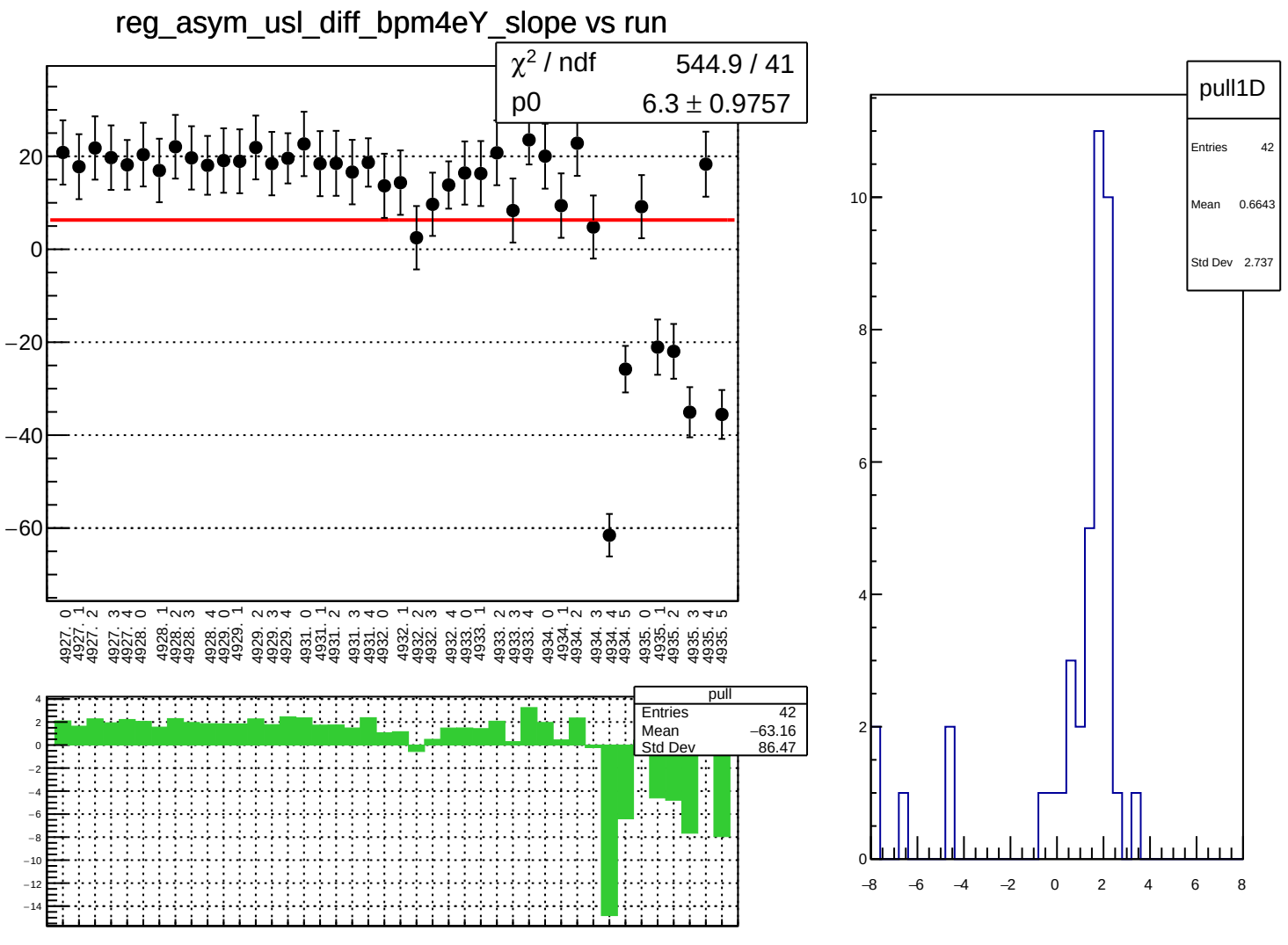

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 452.9 / 41
p0 −6.904 ± 0.8616
60
50
40
30
20
10
0
−10
−20
−30
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5

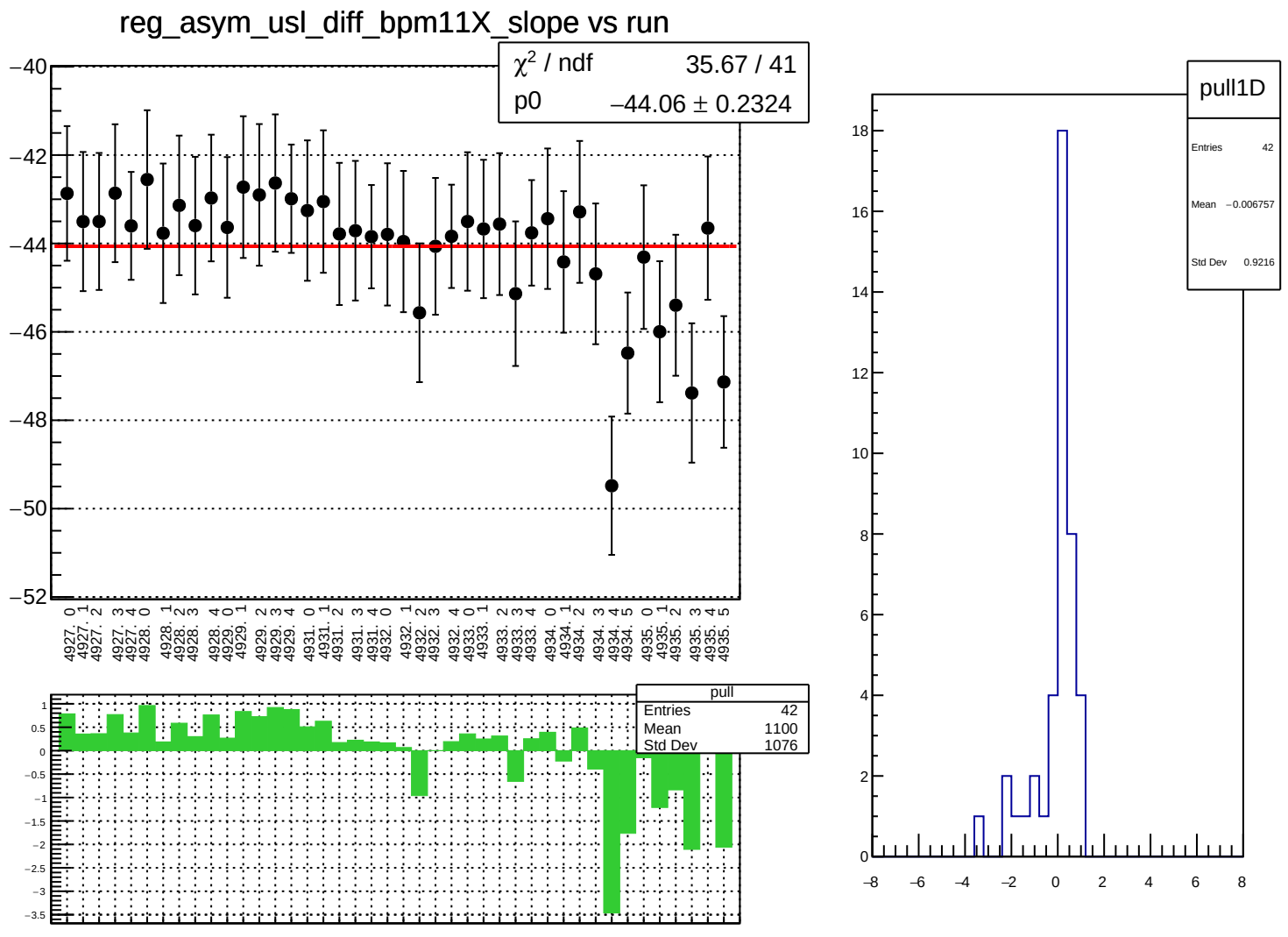

pull
Entries 42
Mean −84.69
Std Dev 108.1
14
12
10
8
6
4
2
0
−2

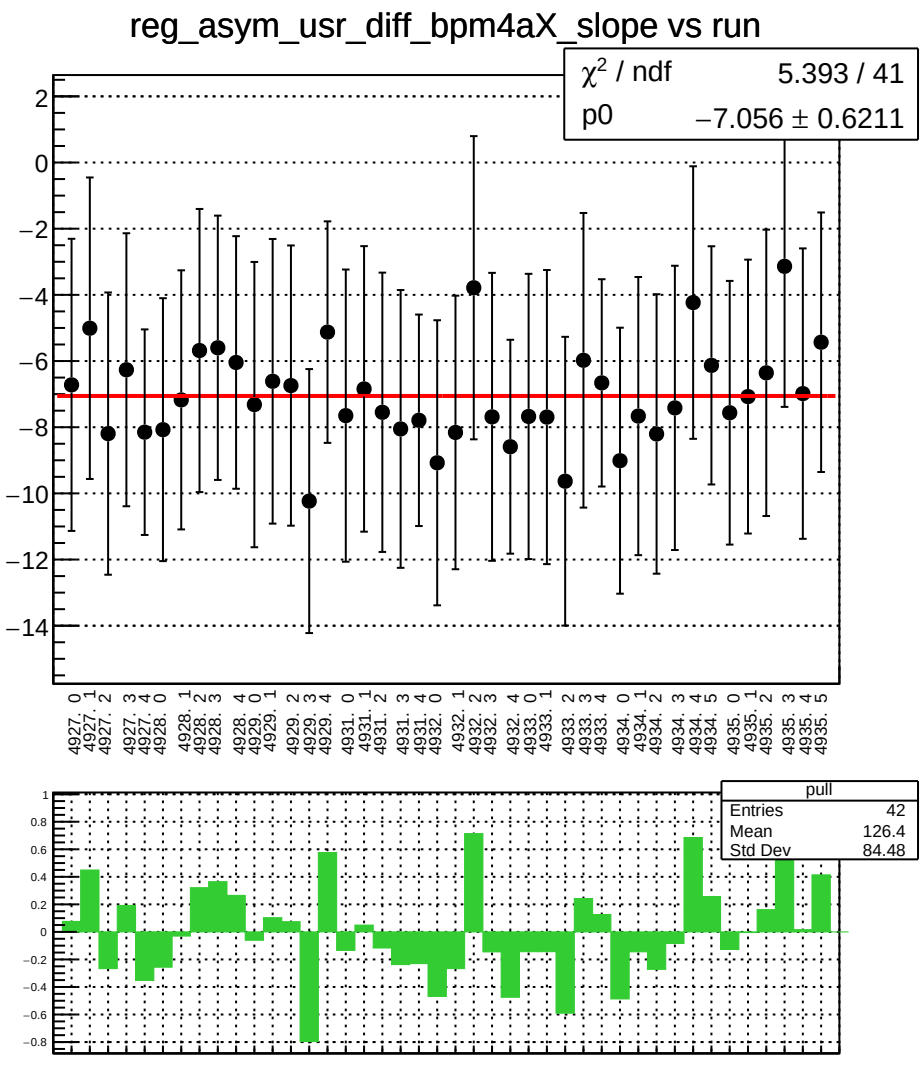

pull1D
Entries 42
Mean −0.5499
Std Dev 2.545
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

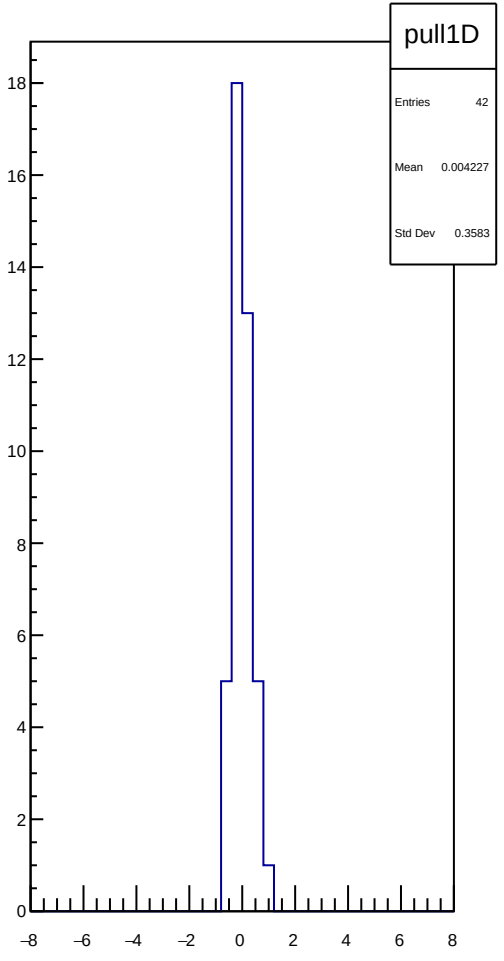

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 39.18 / 41
p0 −71.08 ± 0.1451
pull
Entries 42
Mean 502.2
Std Dev 480.7

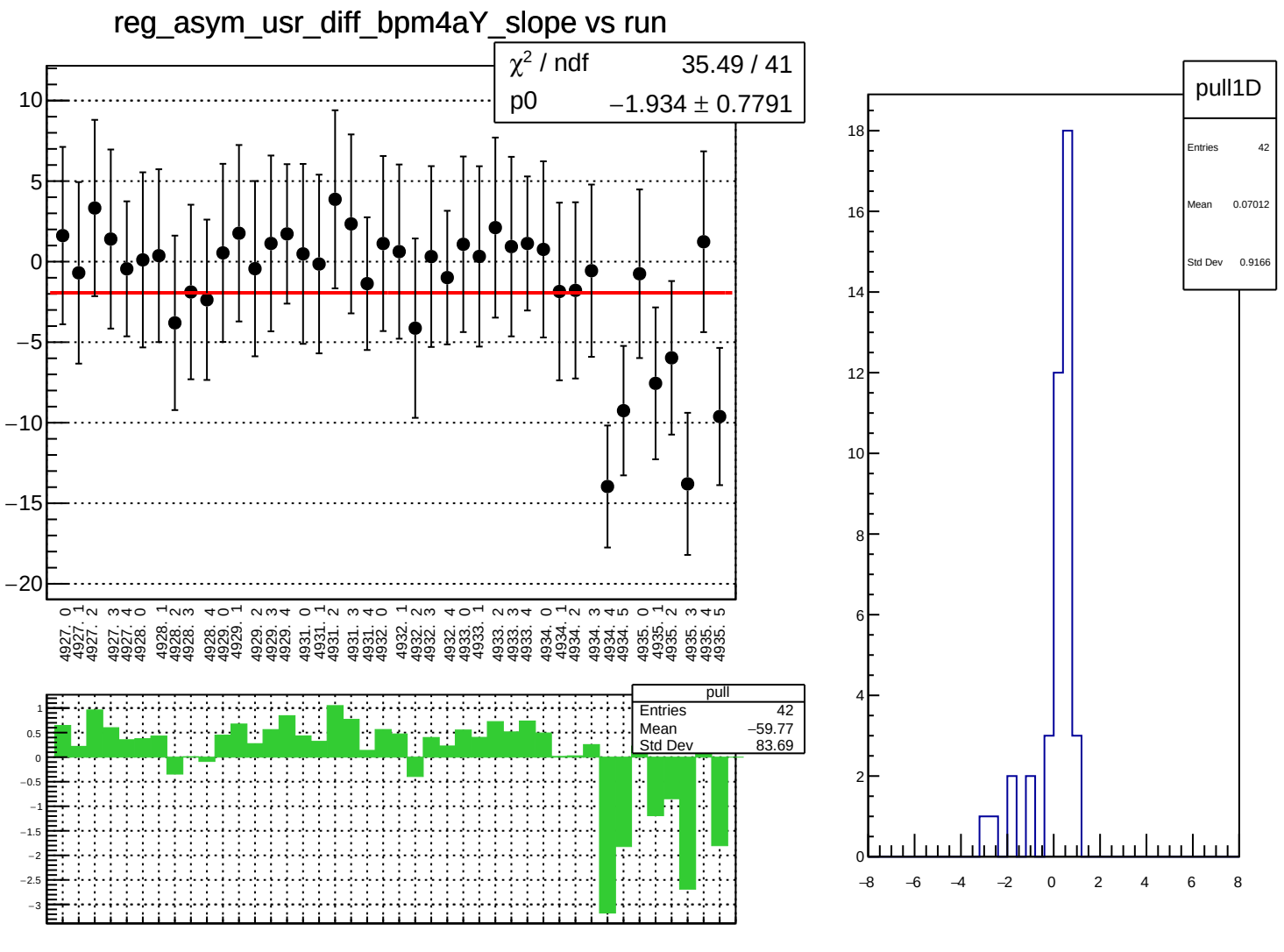

pull1D
Entries 42
Mean −0.01873
Std Dev 0.9657

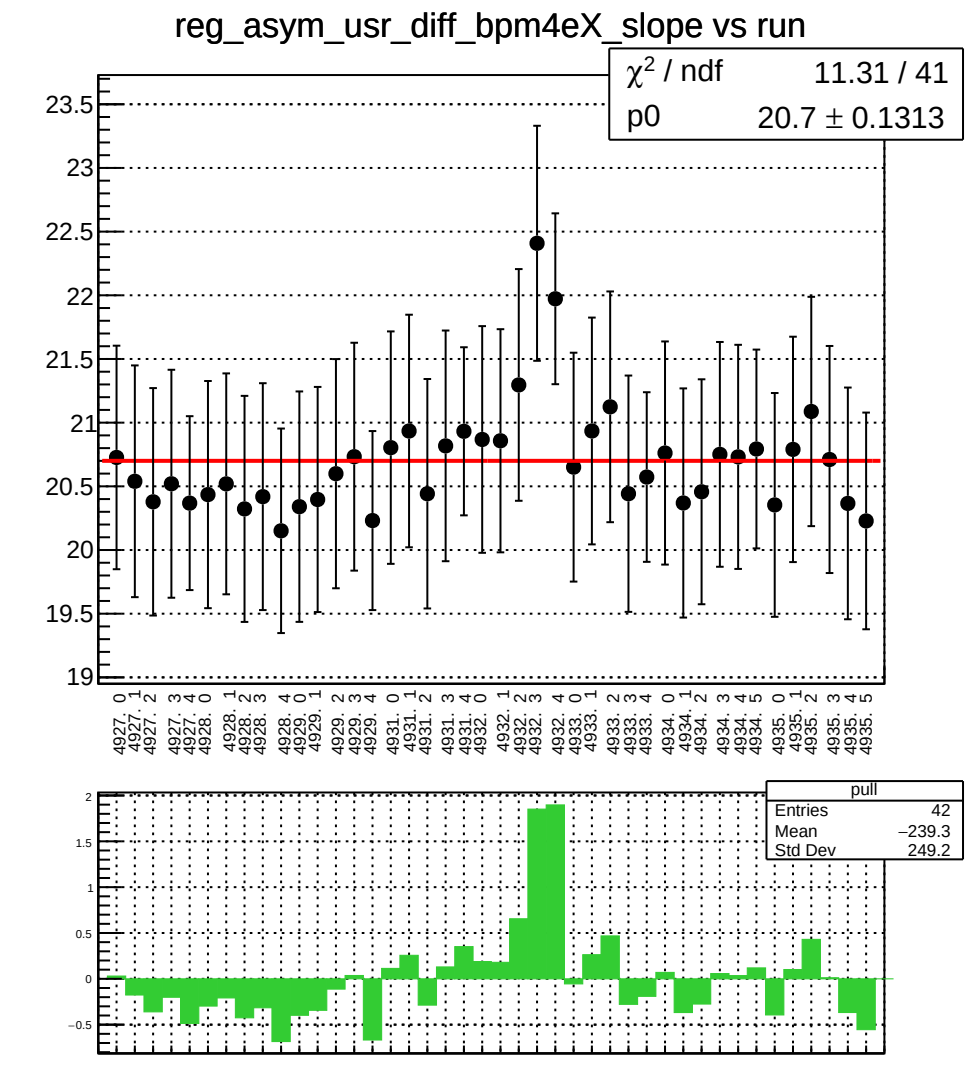

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 544.9 / 41
p0 6.3 ± 0.9757
pull
Entries 42
Mean −63.16
Std Dev 86.47
pull1D
Entries 42
Mean 0.6643
Std Dev 2.737

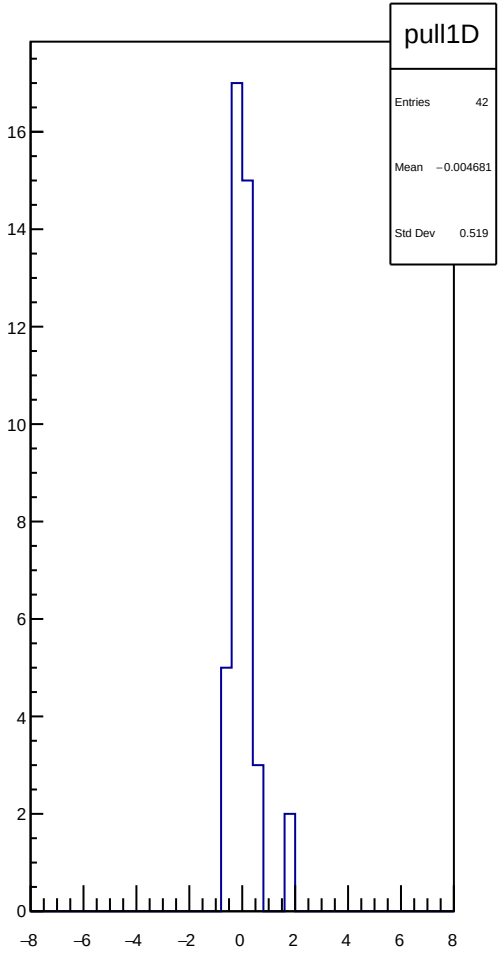

reg_asym_usl_diff_bpm11X_slope vs run
χ² / ndf 35.67 / 41
p0 −44.06 ± 0.2324
−40
−42
−44
−46
−48
−50
−52
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 1100
Std Dev 1076
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
pull1D
Entries 42
Mean −0.006757
Std Dev 0.9216
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

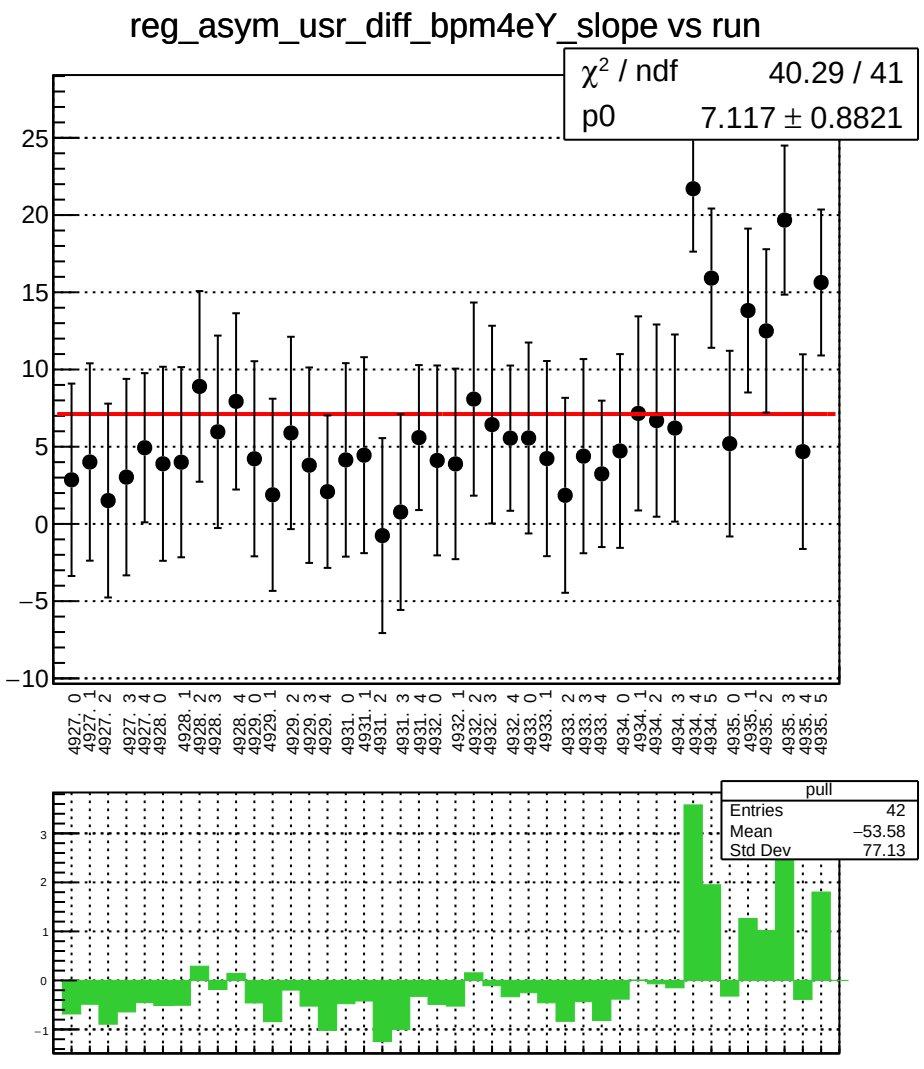

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 5.393 / 41
p0 −7.056 ± 0.6211
pull
Entries 42
Mean 126.4
Std Dev 84.48

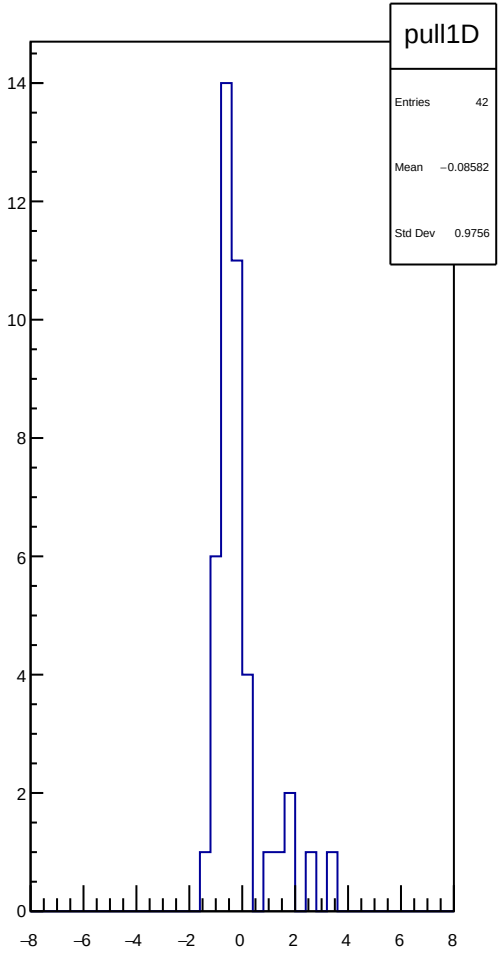

pull1D
Entries 42
Mean 0.004227
Std Dev 0.3583

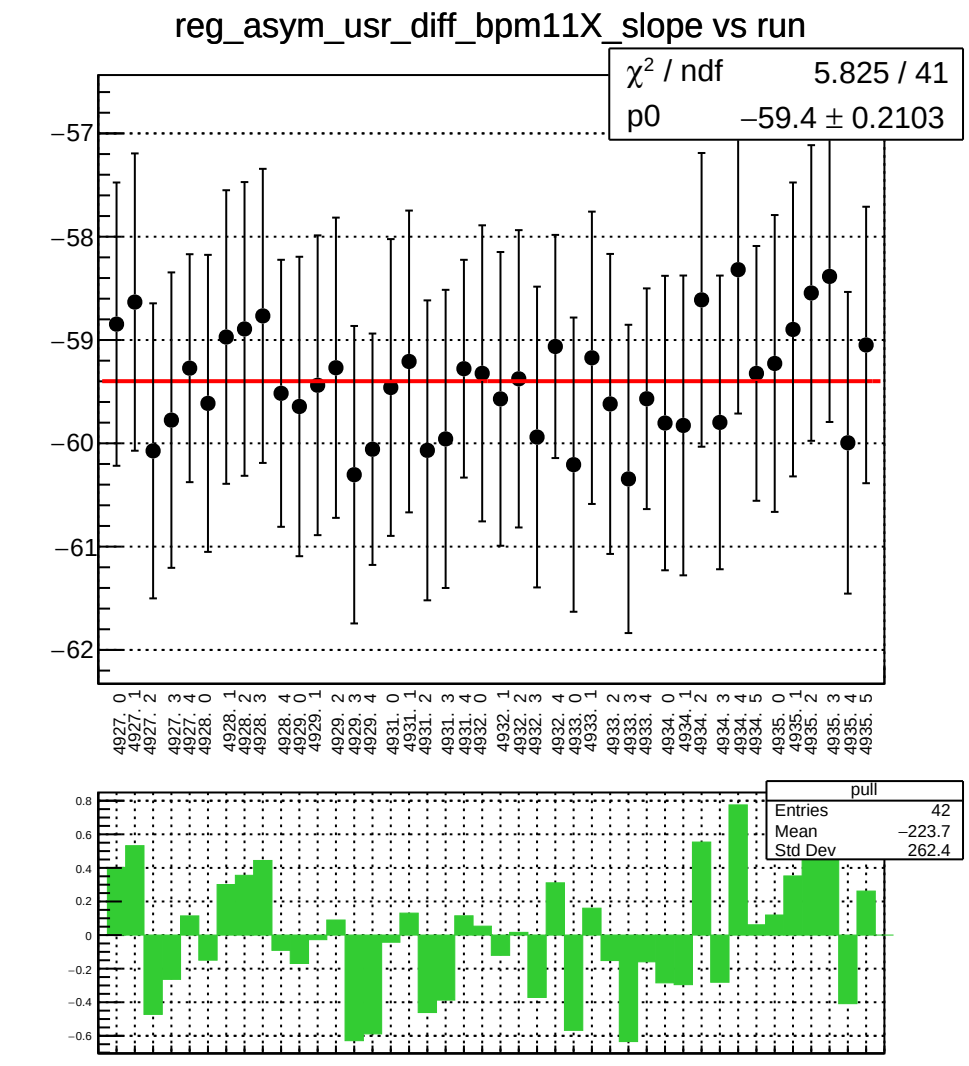

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 35.49 / 41
p0 −1.934 ± 0.7791
pull
Entries 42
Mean −59.77
Std Dev 83.69
pull1D
Entries 42
Mean 0.07012
Std Dev 0.9166

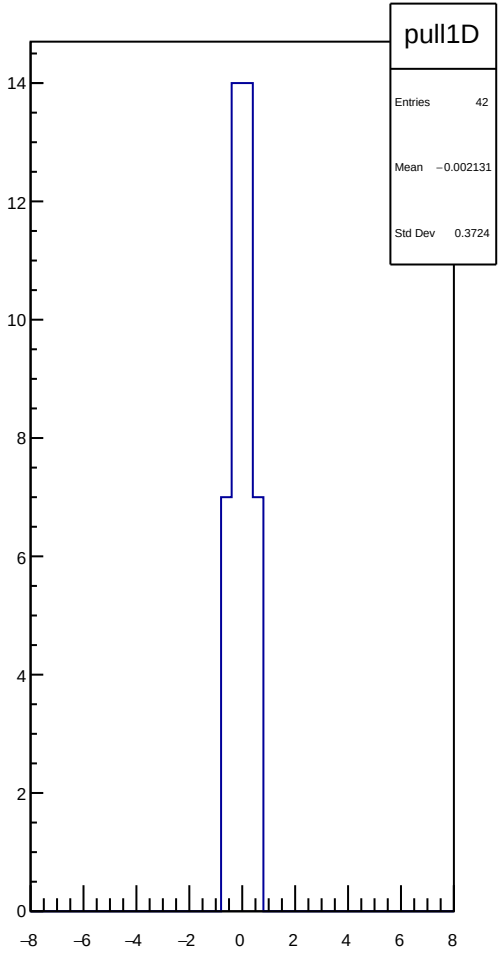

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 11.31 / 41
p0 20.7 ± 0.1313
pull
Entries 42
Mean −239.3
Std Dev 249.2

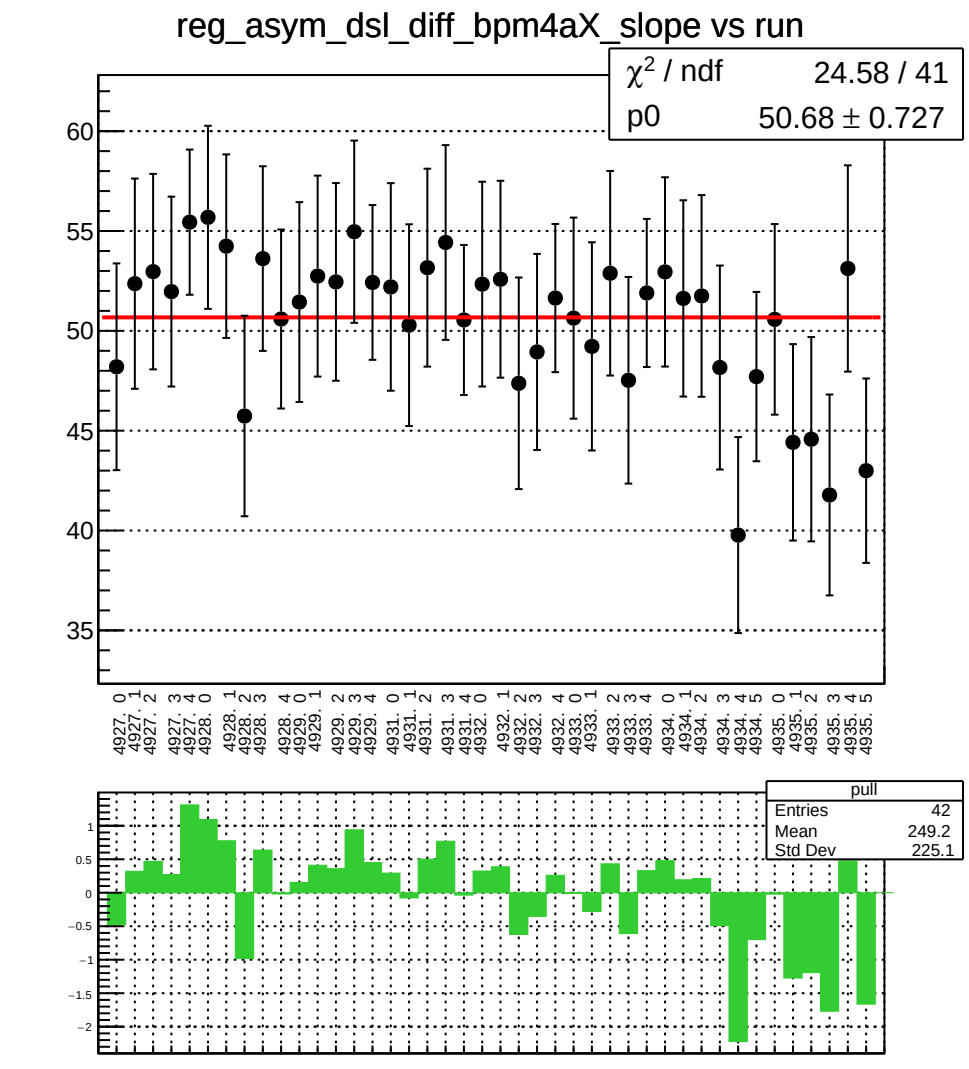

pull1D
Entries 42
Mean −0.004681
Std Dev 0.519

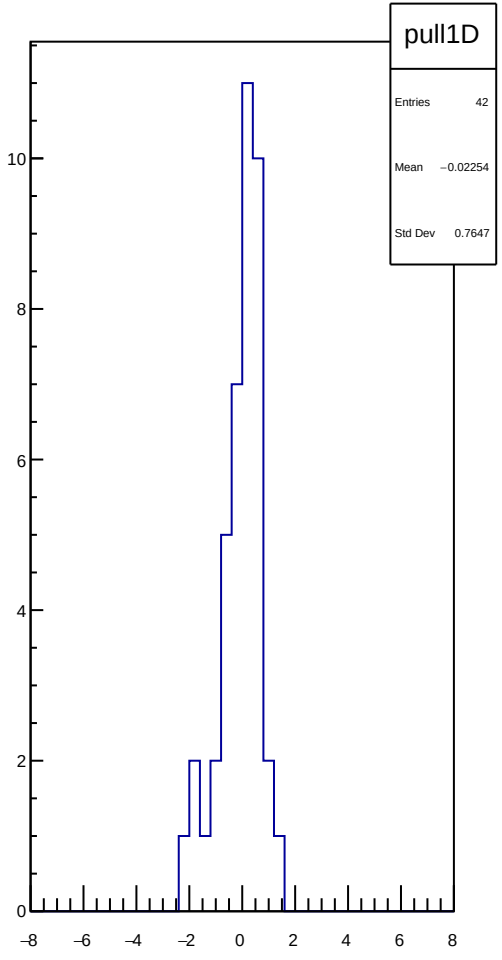

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 40.29 / 41
p0 7.117 ± 0.8821
pull
Entries 42
Mean −53.58
Std Dev 77.13

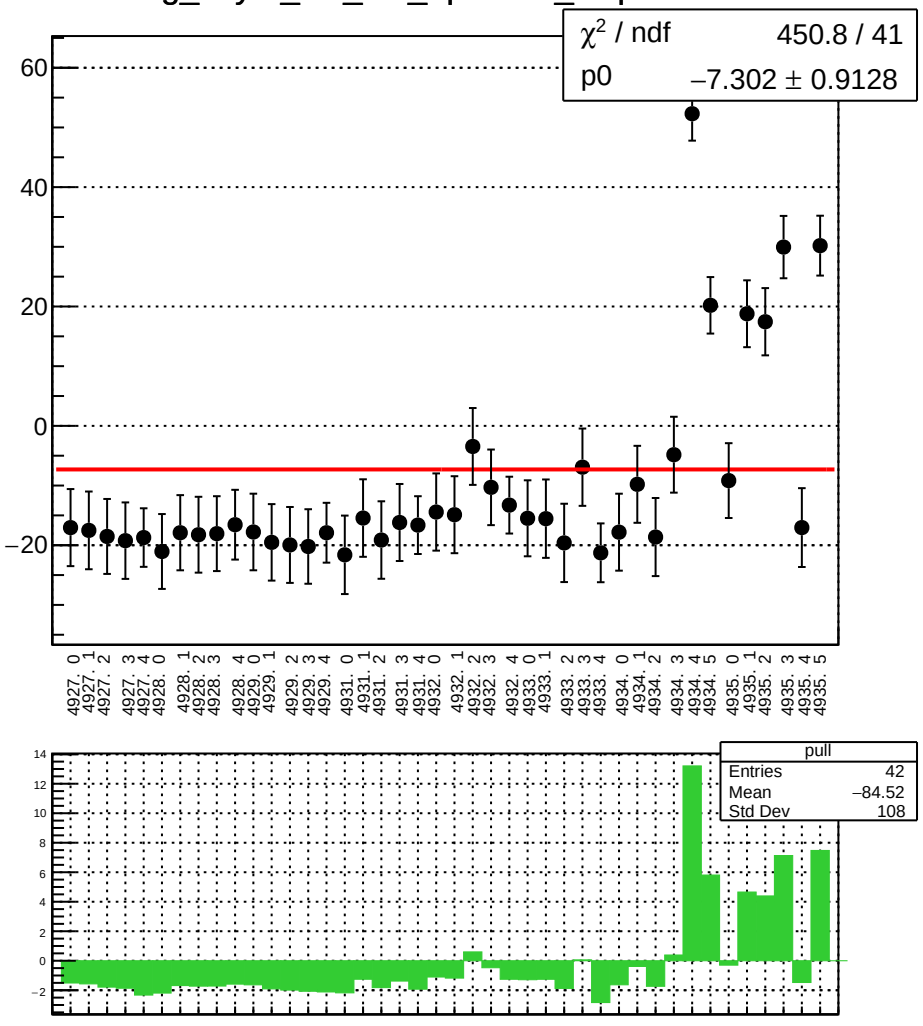

pull1D
Entries 42
Mean −0.08582
Std Dev 0.9756

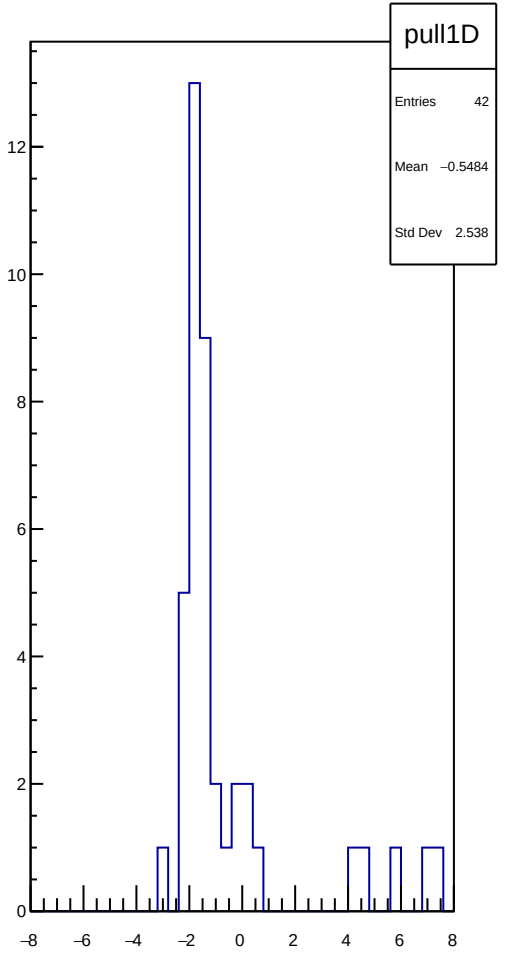

reg_asym_usr_diff_bpm11X_slope vs run
χ² / ndf 5.825 / 41
p0 −59.4 ± 0.2103
pull
Entries 42
Mean −223.7
Std Dev 262.4

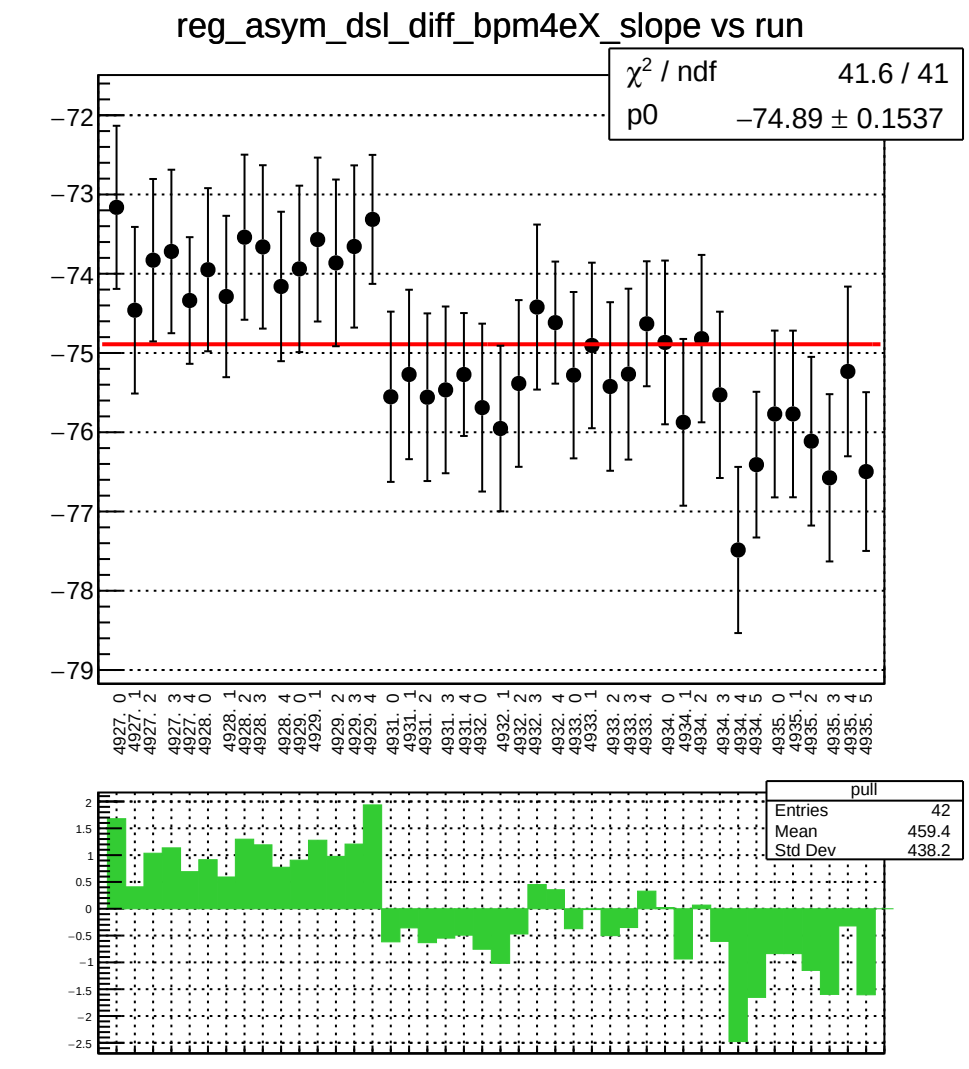

pull1D
Entries 42
Mean −0.002131
Std Dev 0.3724

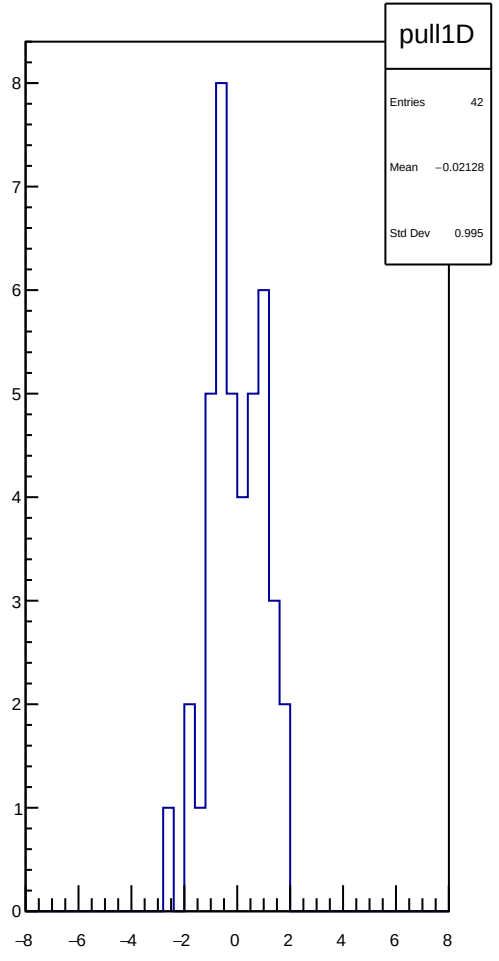

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 24.58 / 41
p0 50.68 ± 0.727
pull
Entries 42
Mean 249.2
Std Dev 225.1

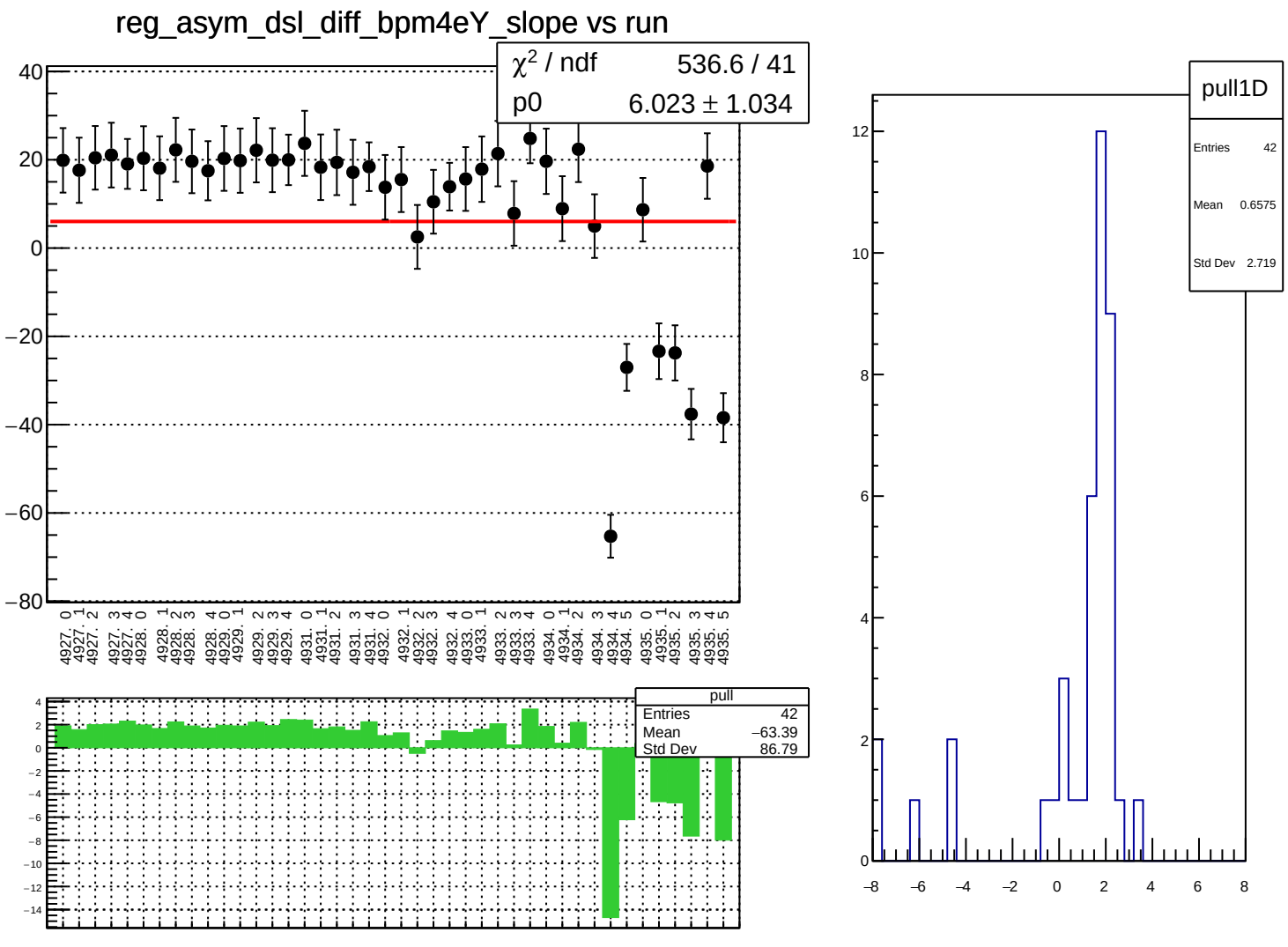

pull1D
Entries 42
Mean −0.02254
Std Dev 0.7647

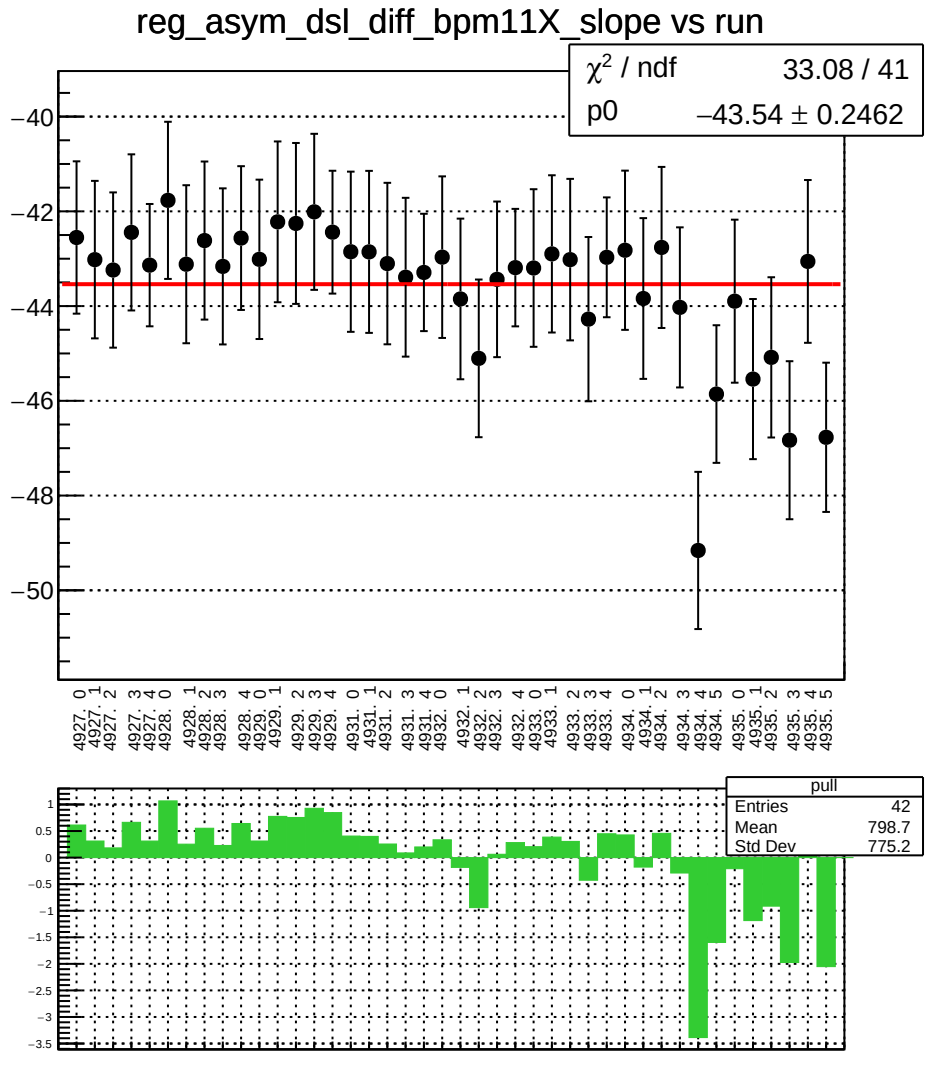

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 450.8 / 41
p0 −7.302 ± 0.9128
pull
Entries 42
Mean −84.52
Std Dev 108

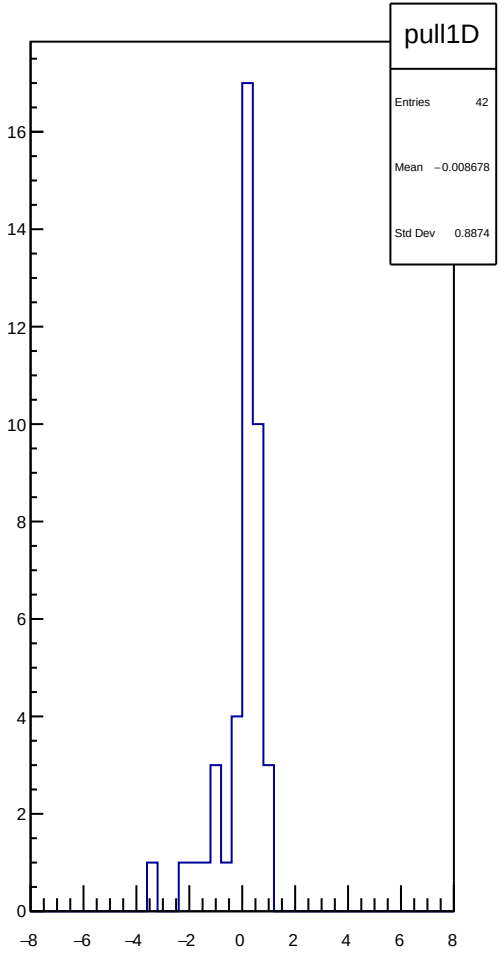

pull1D
Entries 42
Mean −0.5484
Std Dev 2.538

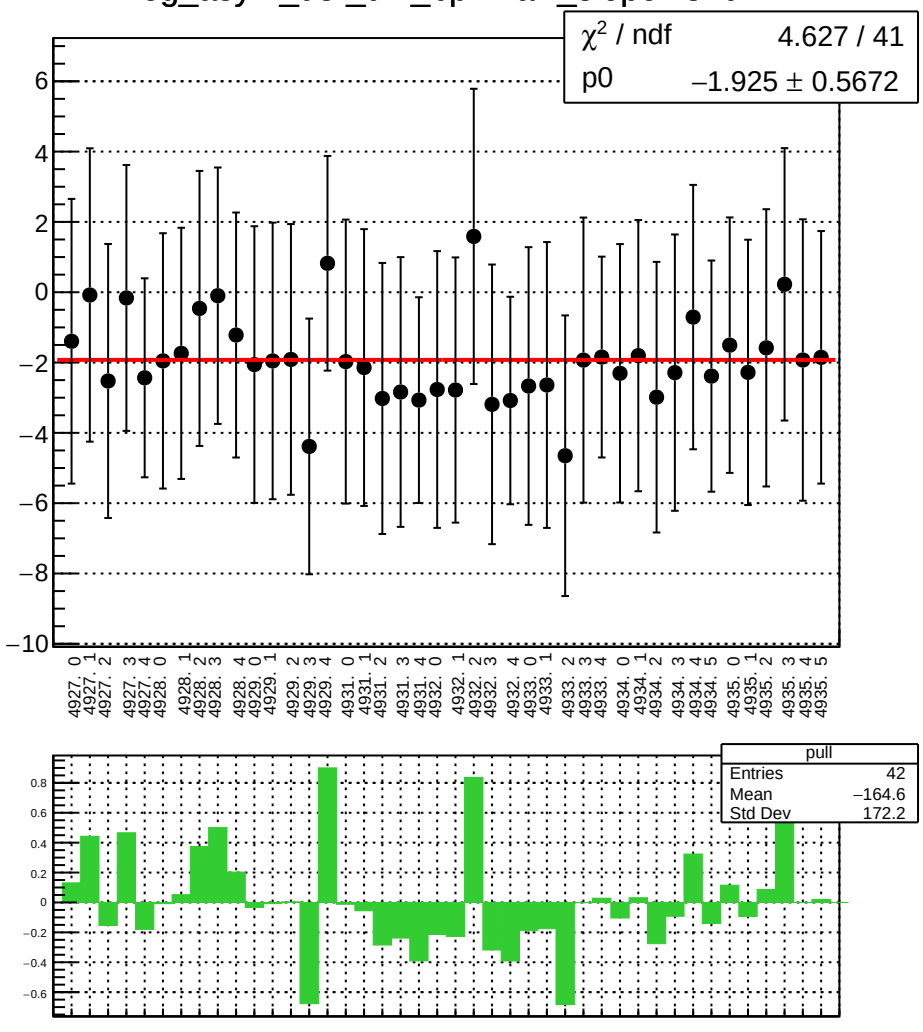

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 41.6 / 41
p0 −74.89 ± 0.1537
pull
Entries 42
Mean 459.4
Std Dev 438.2

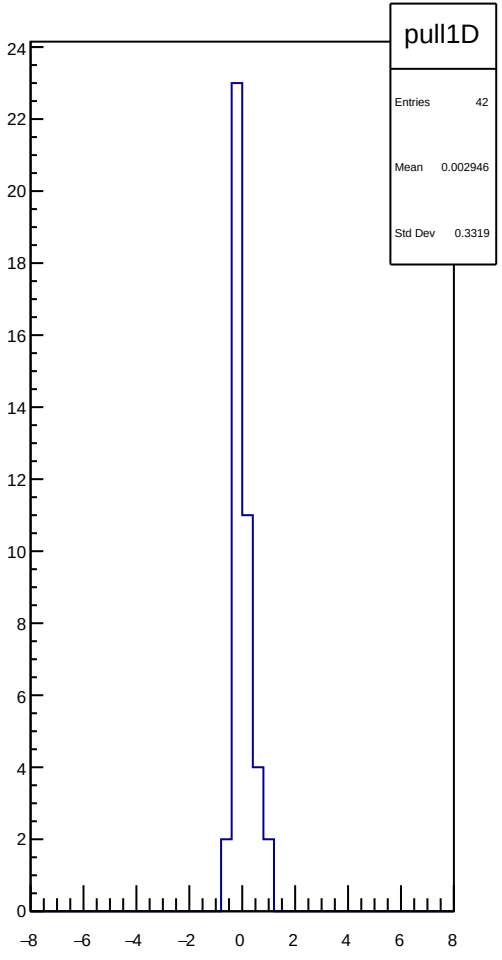

pull1D
Entries 42
Mean −0.02128
Std Dev 0.995

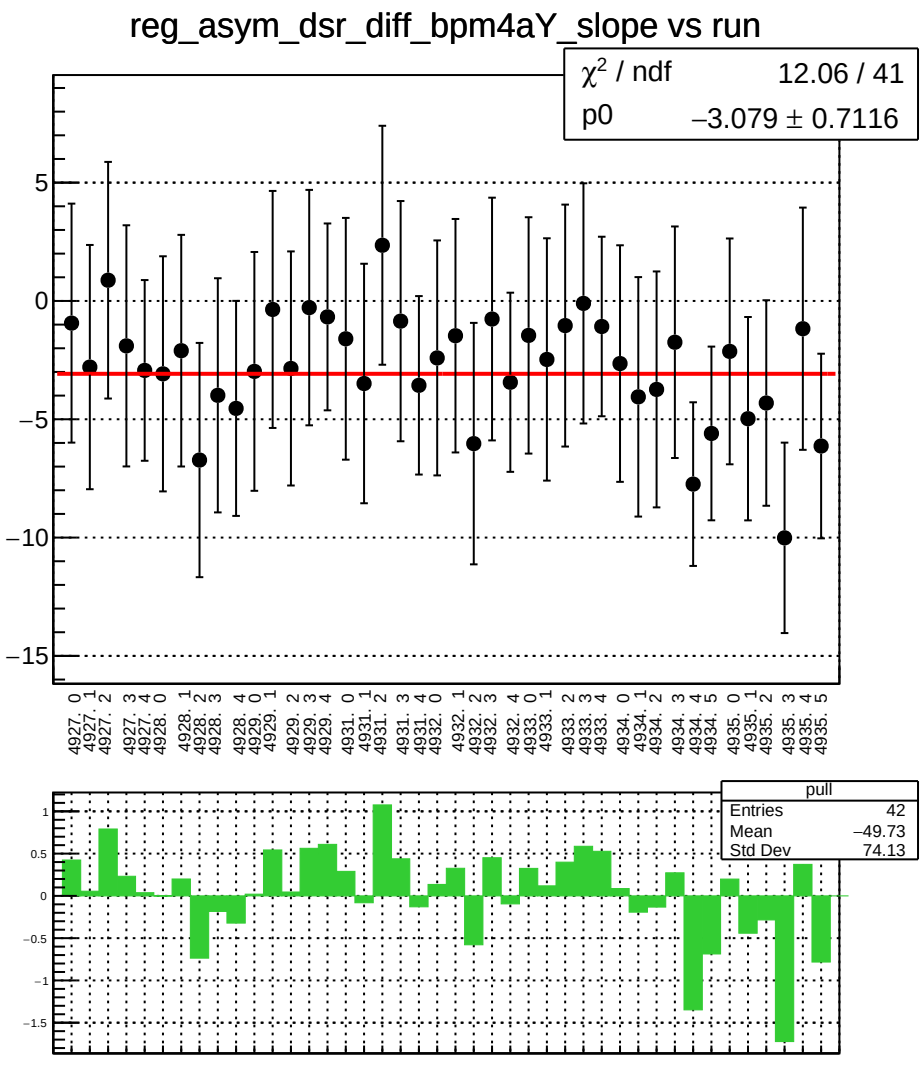

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 536.6 / 41
p0 6.023 ± 1.034
pull
Entries 42
Mean −63.39
Std Dev 86.79
pull1D
Entries 42
Mean 0.6575
Std Dev 2.719

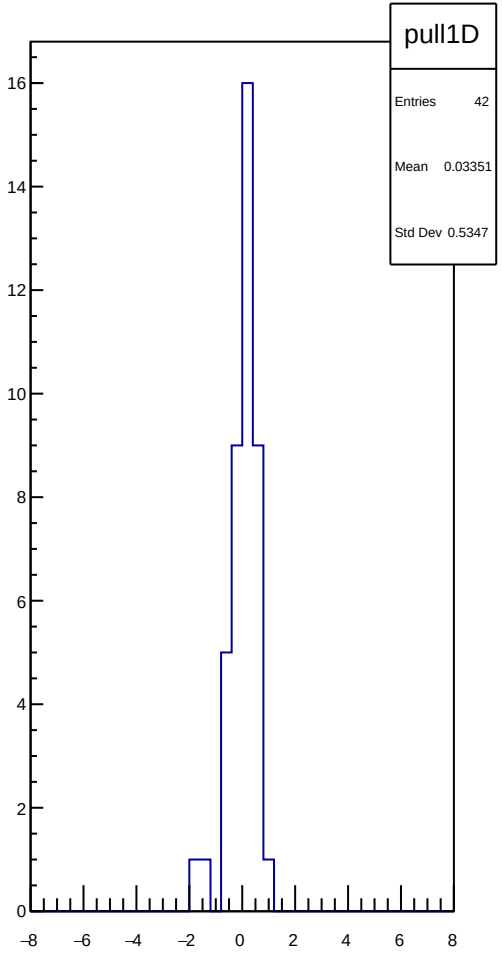

reg_asym_dsl_diff_bpm11X_slope vs run
χ² / ndf 33.08 / 41
p0 −43.54 ± 0.2462
pull
Entries 42
Mean 798.7
Std Dev 775.2

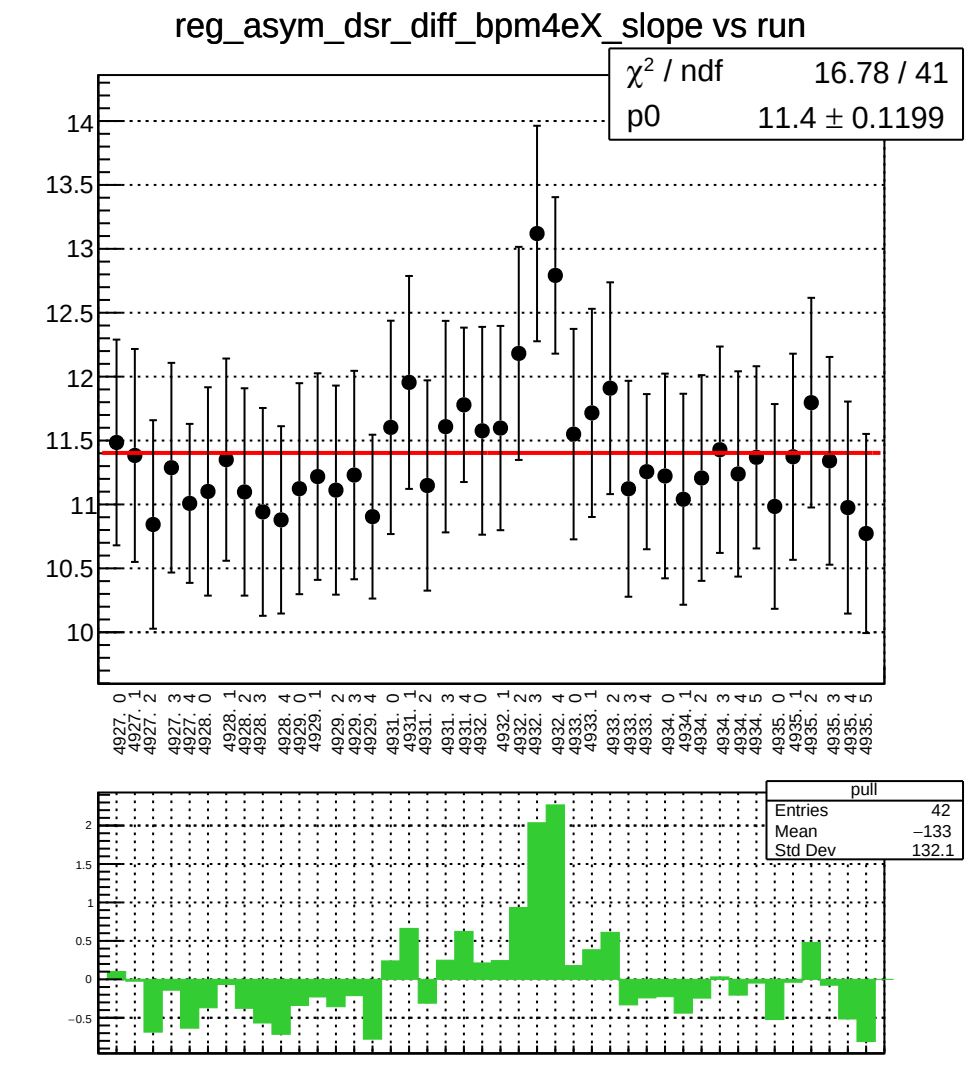

pull1D
Entries 42
Mean −0.008678
Std Dev 0.8874

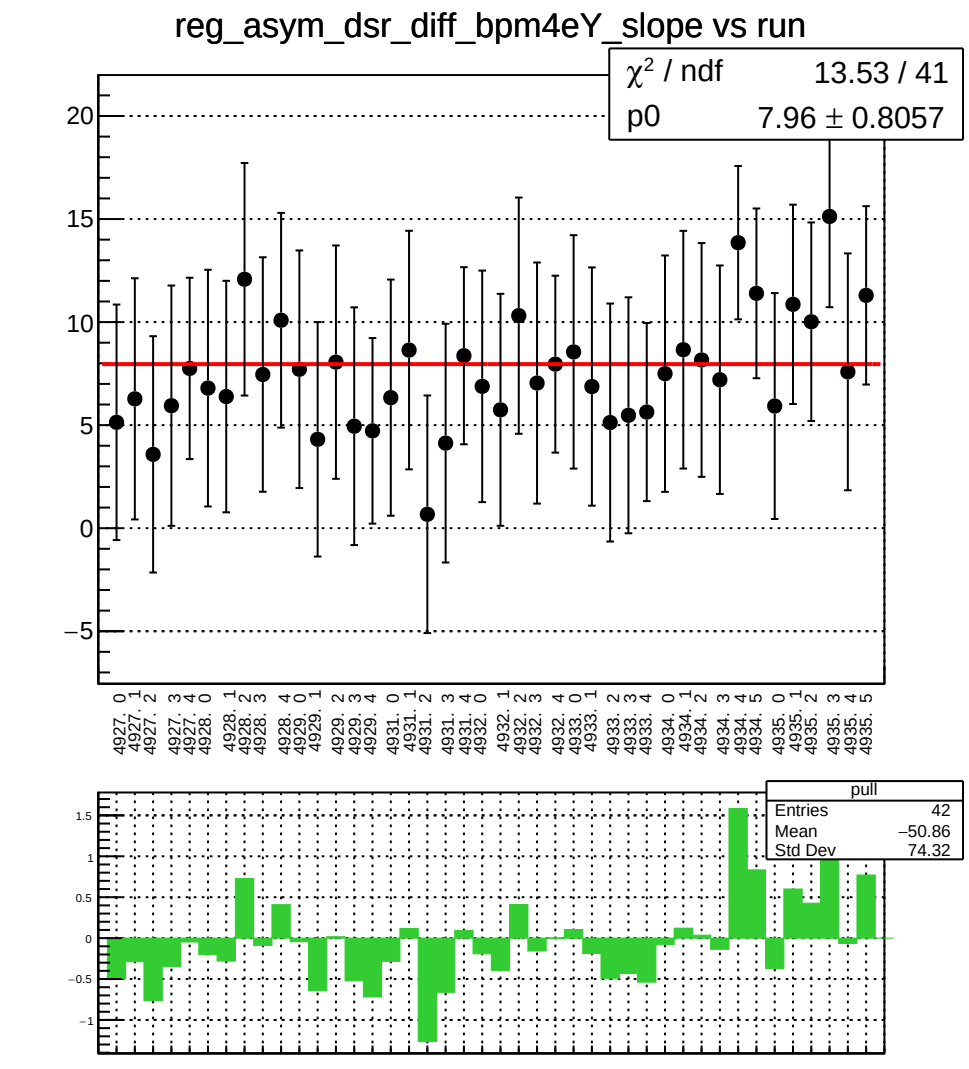

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 4.627 / 41
p0 −1.925 ± 0.5672
pull
Entries 42
Mean −164.6
Std Dev 172.2

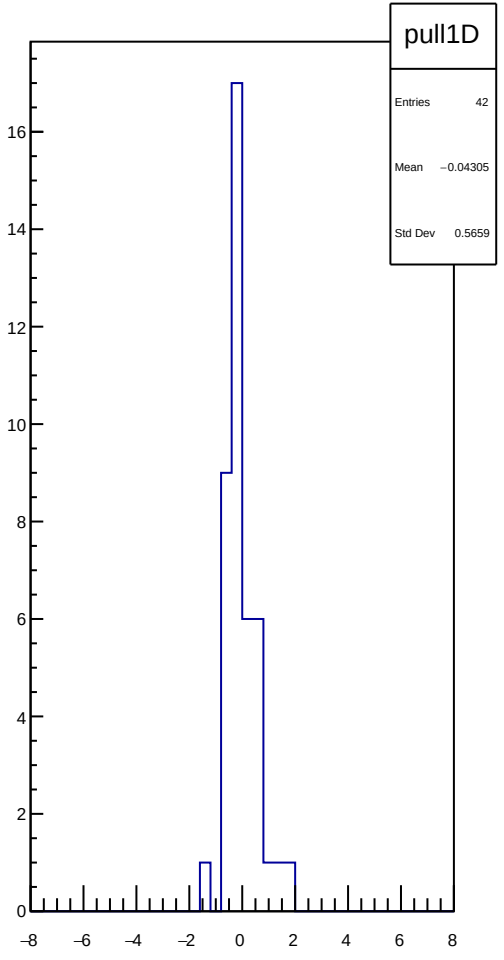

pull1D
Entries 42
Mean 0.002946
Std Dev 0.3319

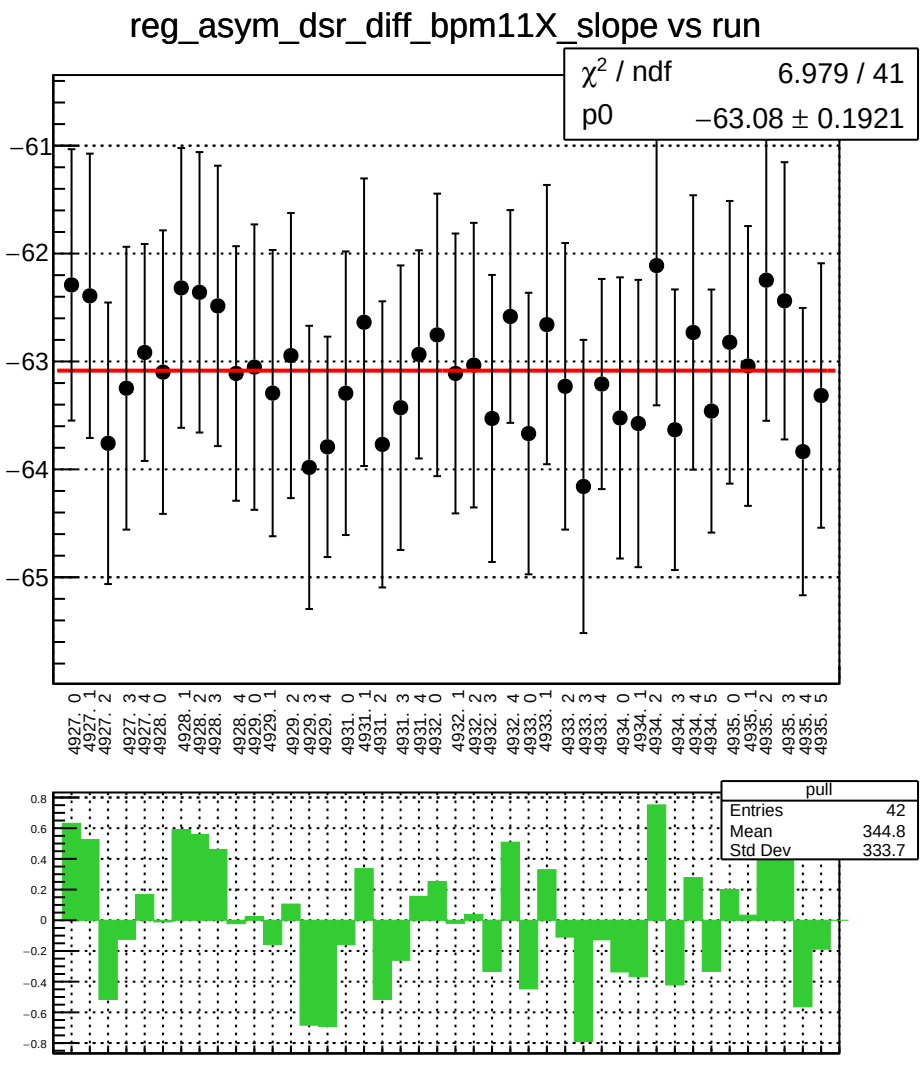

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 12.06 / 41
p0 −3.079 ± 0.7116
5
0
−5
−10
−15
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −49.73
Std Dev 74.13
1
0.5
0
−0.5
−1
−1.5

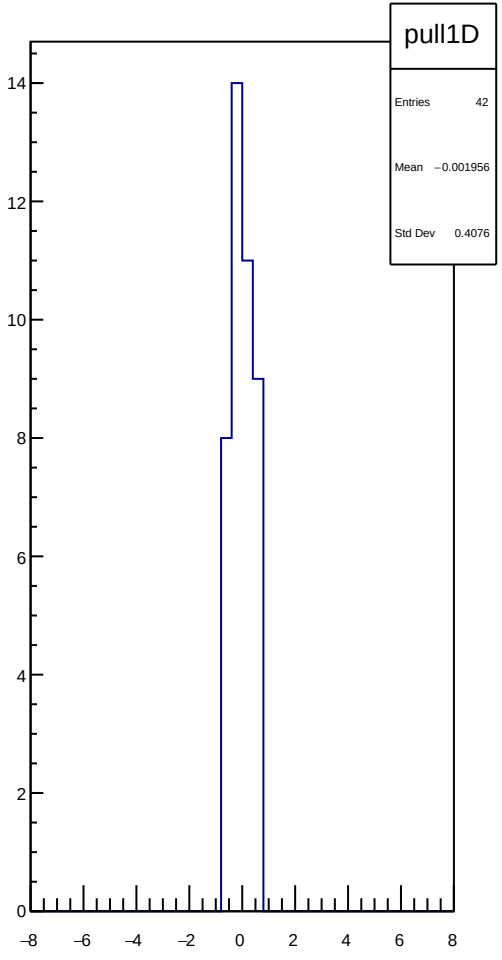

pull1D
Entries 42
Mean 0.03351
Std Dev 0.5347
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

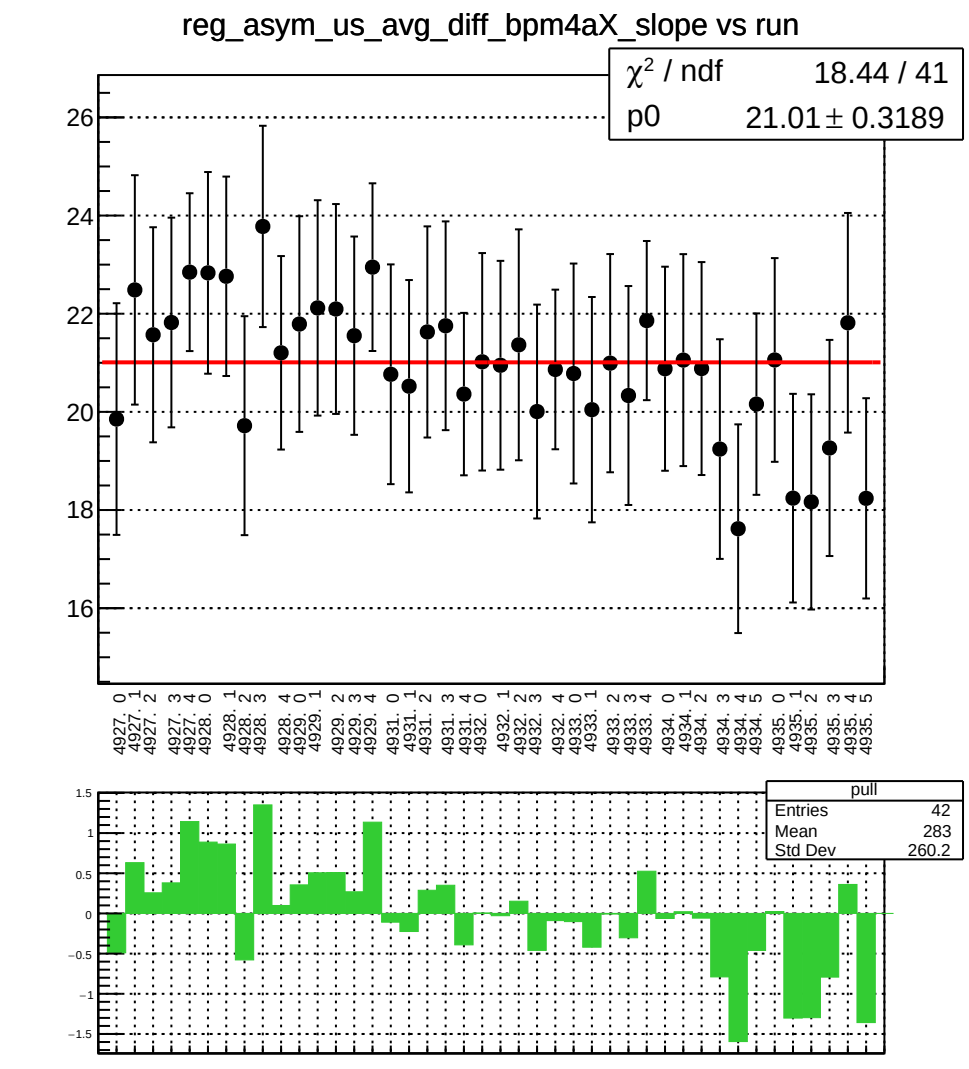

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 16.78 / 41
p0 11.4 ± 0.1199
14
13.5
13
12.5
12
11.5
11
10.5
10
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −133
Std Dev 132.1
2
1.5
1
0.5
0
−0.5
pull1D
Entries 42
Mean −0.005802
Std Dev 0.632
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

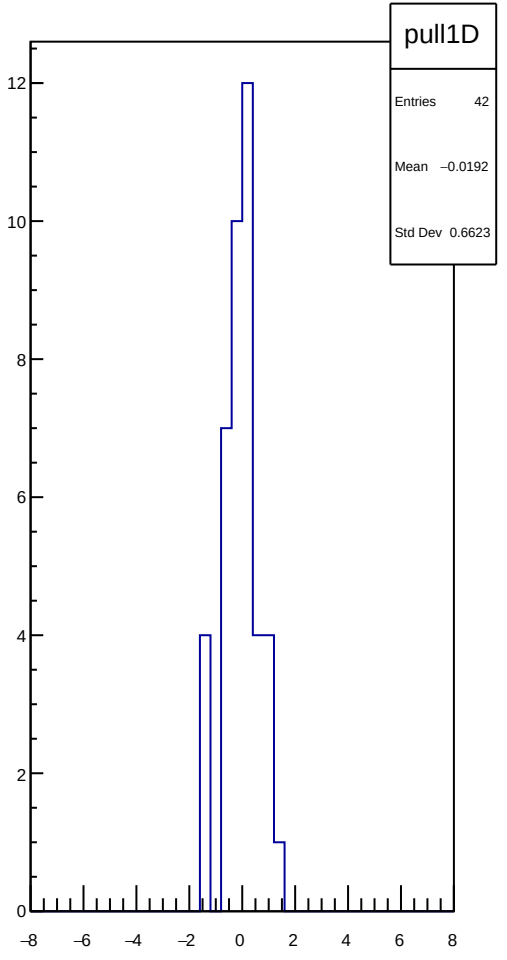

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 13.53 / 41
p0 7.96 ± 0.8057
pull
Entries 42
Mean −50.86
Std Dev 74.32

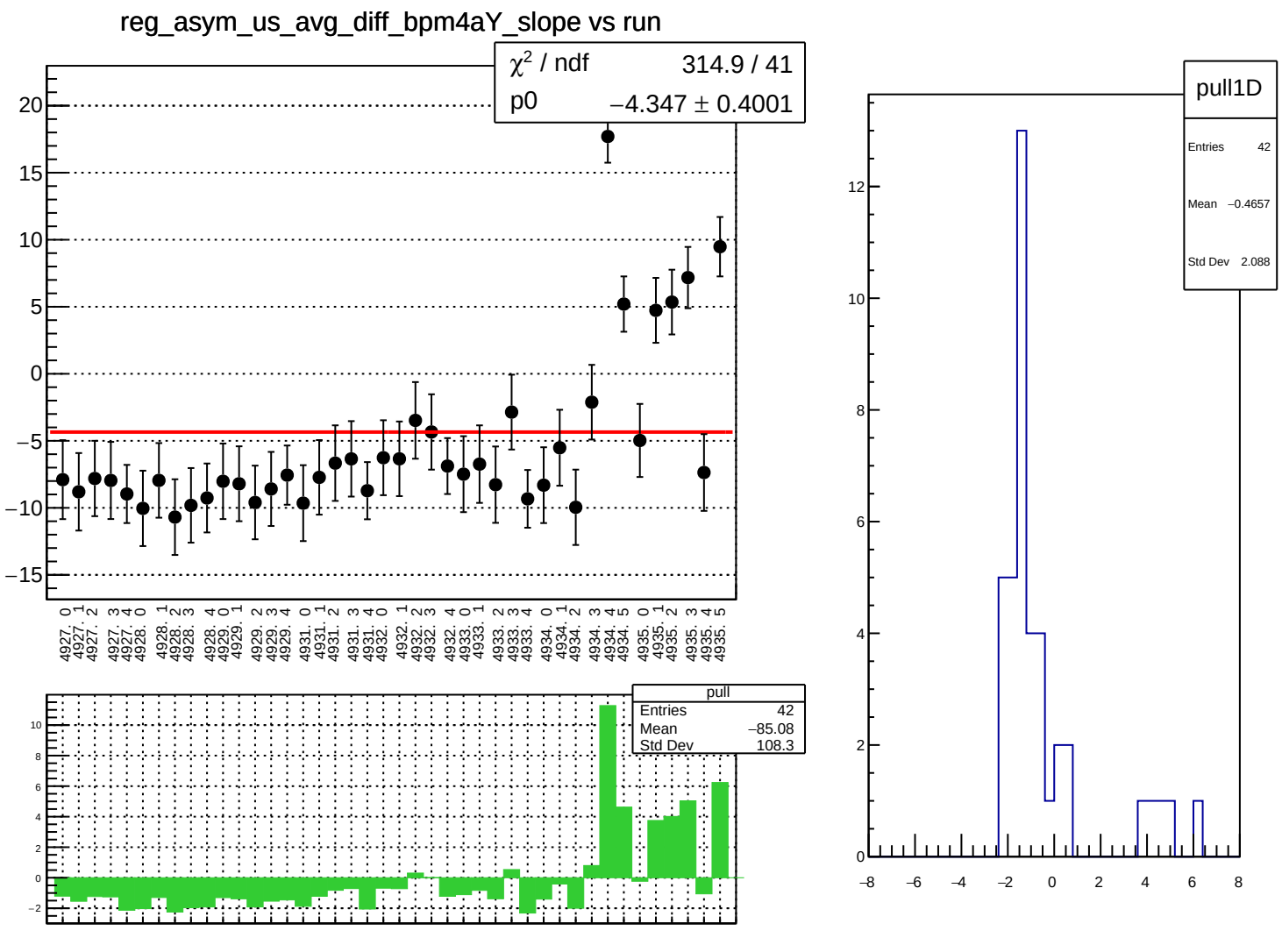

pull1D
Entries 42
Mean −0.04305
Std Dev 0.5659

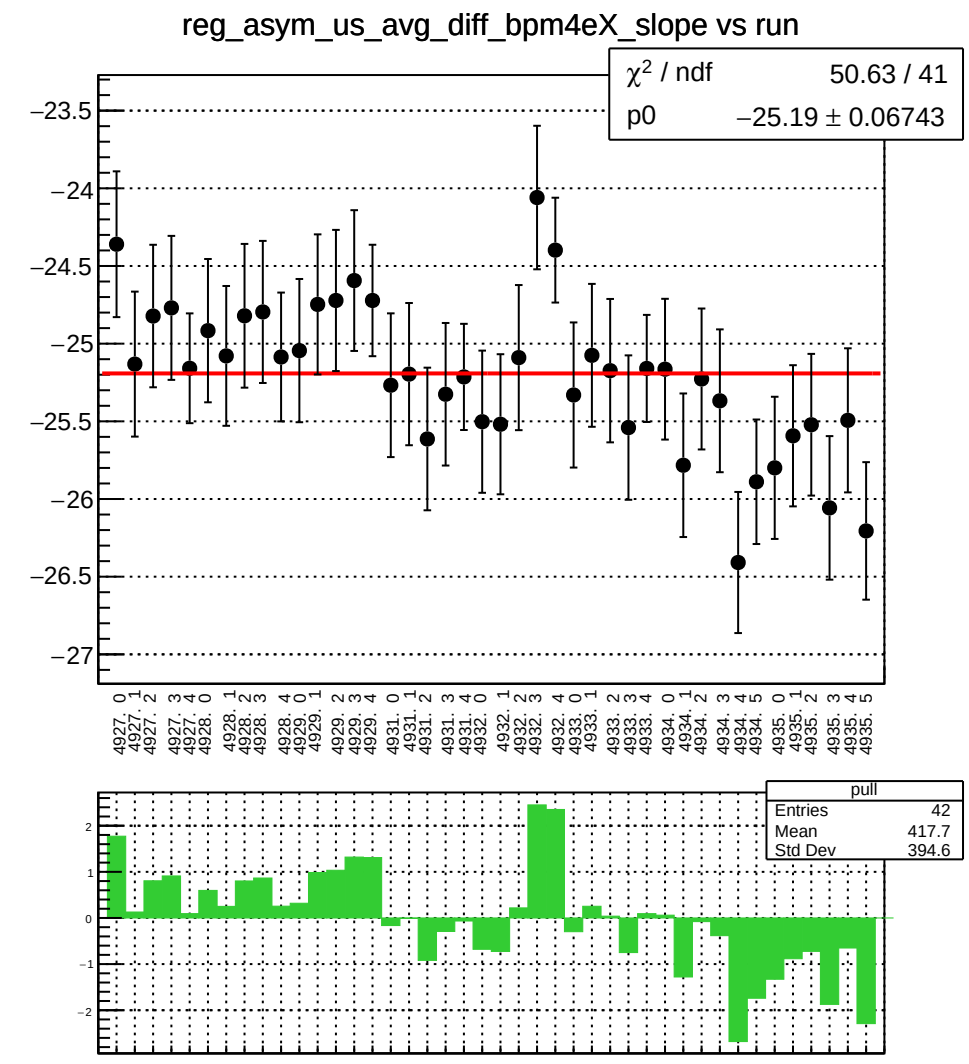

reg_asym_dsr_diff_bpm11X_slope vs run
χ² / ndf 6.979 / 41
p0 −63.08 ± 0.1921
−61
−62
−63
−64
−65
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 344.8
Std Dev 333.7
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

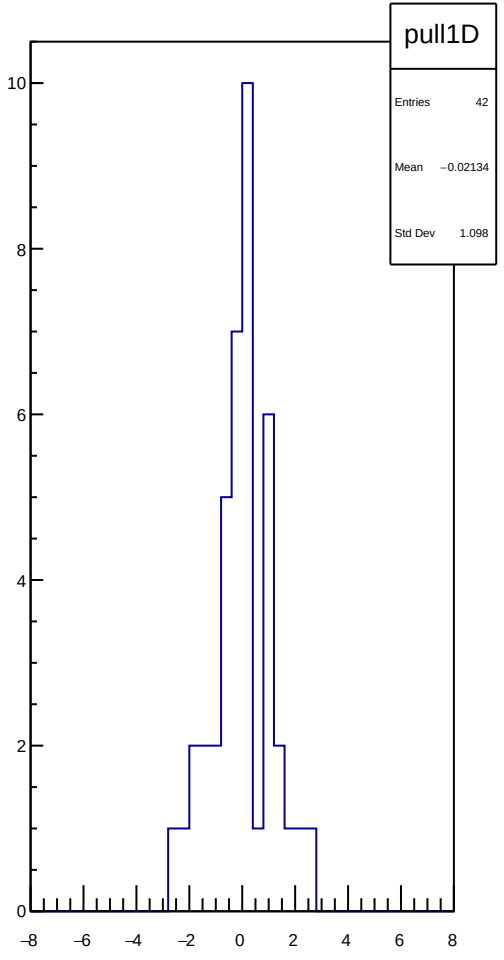

pull1D
Entries 42
Mean −0.001956
Std Dev 0.4076
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

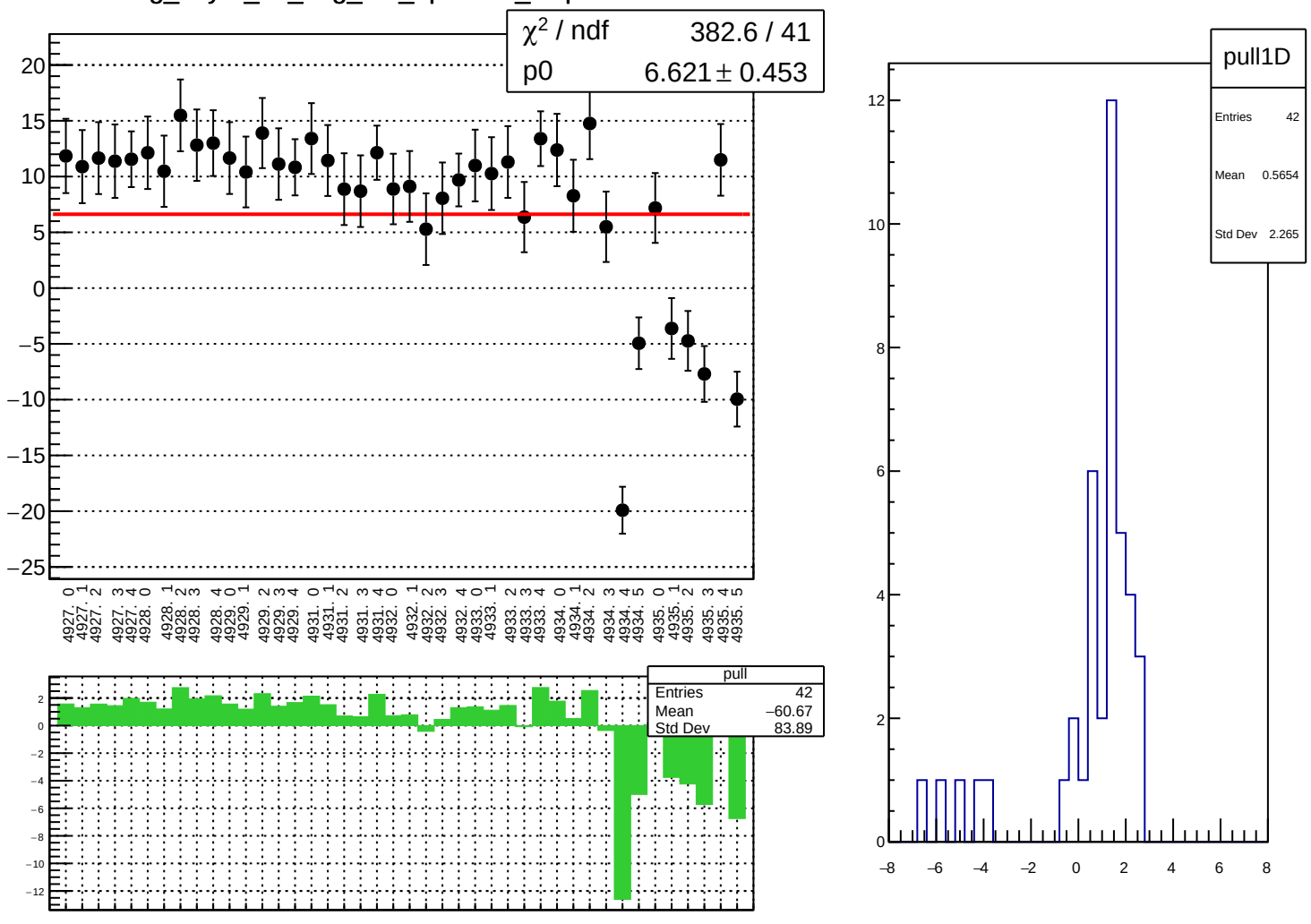

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 18.44 / 41
p0 21.01 ± 0.3189
26
24
22
20
18
16
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935.
pull
Entries 42
Mean 283
Std Dev 260.2
1.5
1
0.5
0
−0.5
−1
−1.5

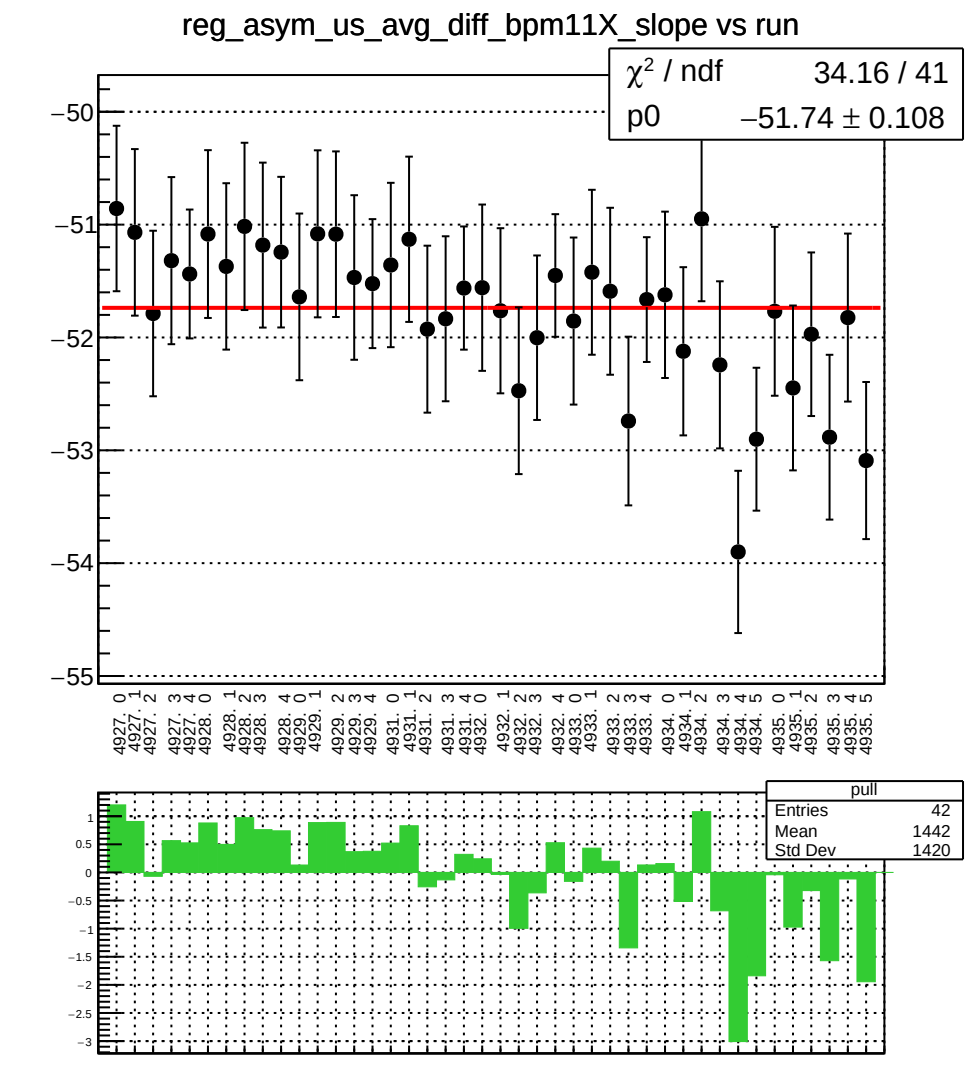

pull1D
Entries 42
Mean −0.0192
Std Dev 0.6623
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

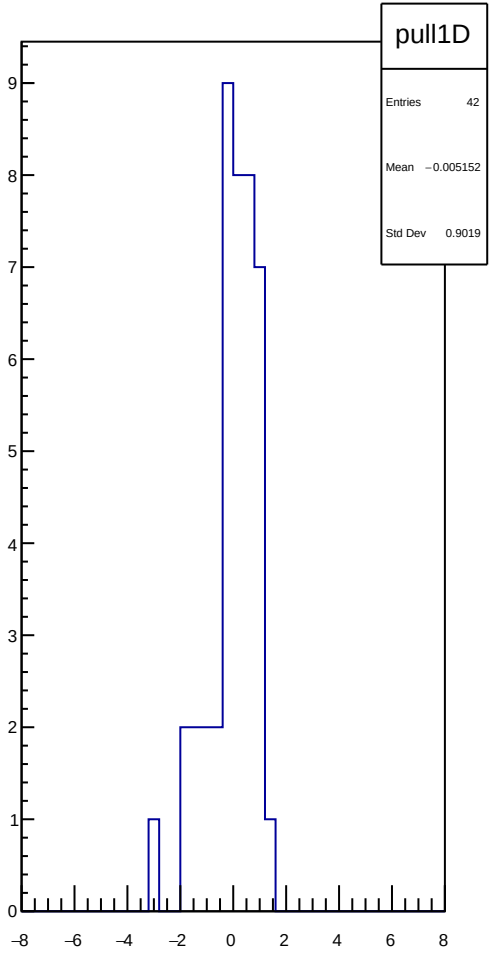

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 314.9 / 41
p0 −4.347 ± 0.4001
pull
Entries 42
Mean −85.08
Std Dev 108.3
pull1D
Entries 42
Mean −0.4657
Std Dev 2.088

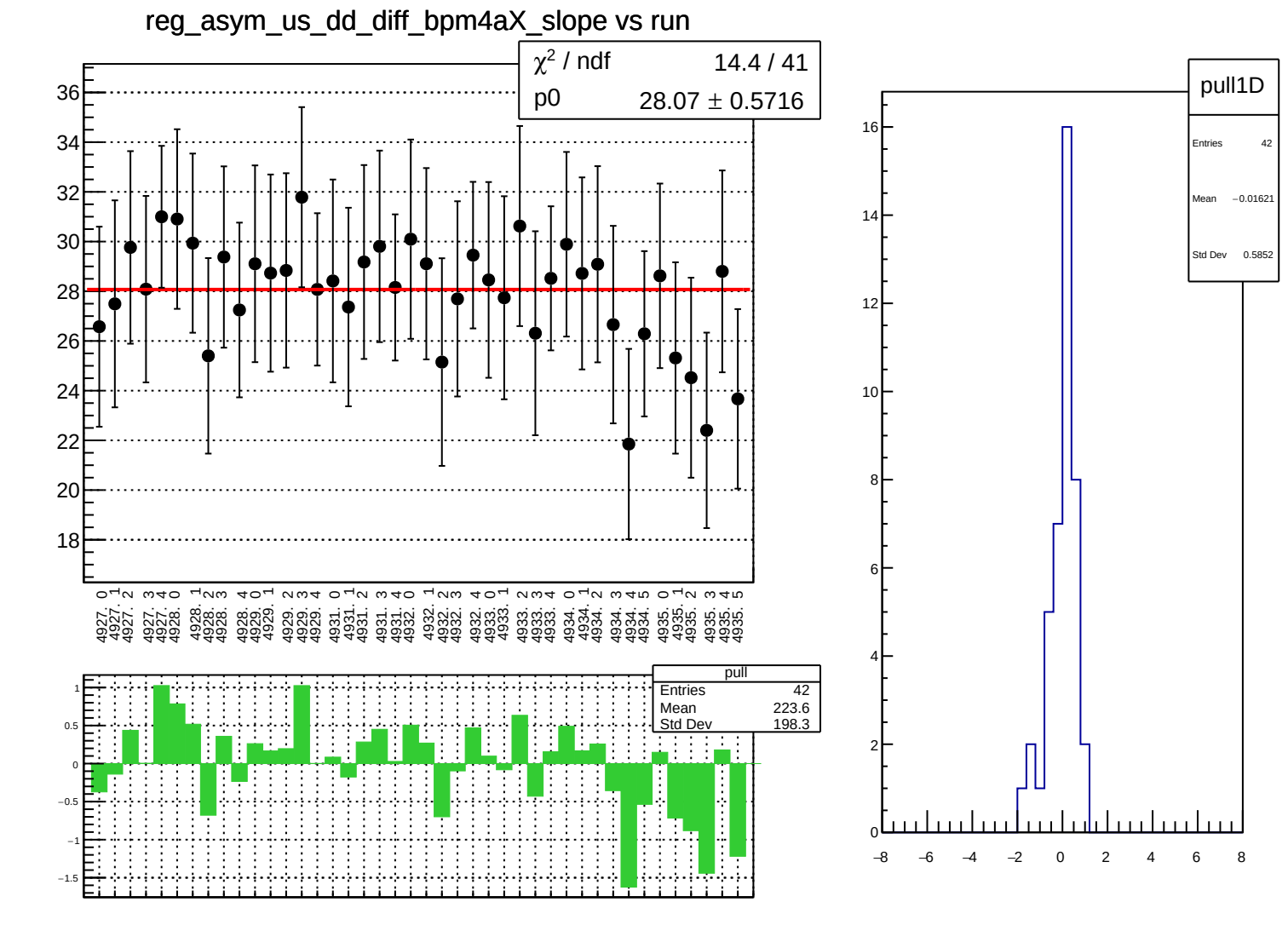

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 50.63 / 41
p0 −25.19 ± 0.06743
pull
Entries 42
Mean 417.7
Std Dev 394.6

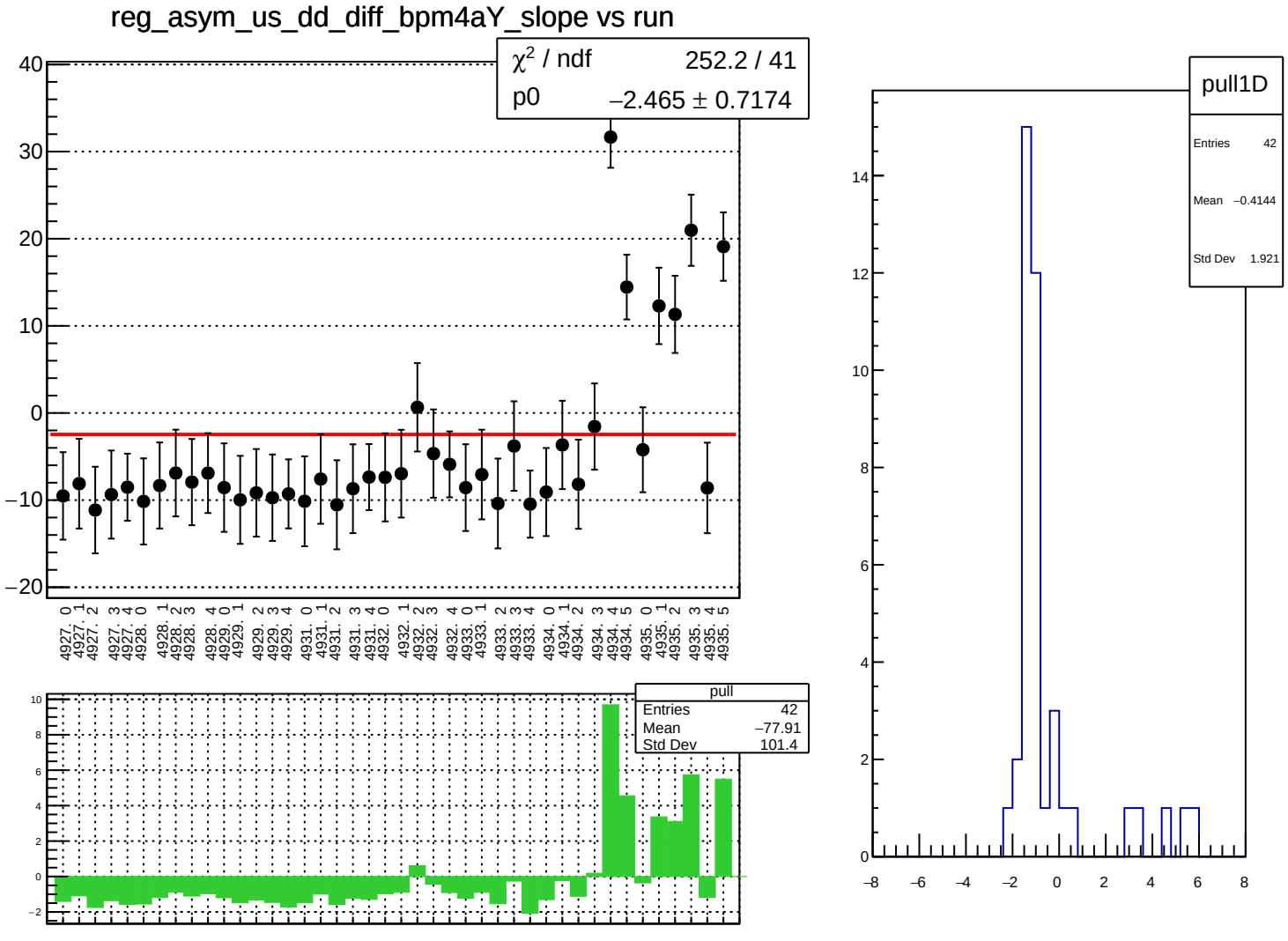

pull1D
Entries 42
Mean −0.02134
Std Dev 1.098

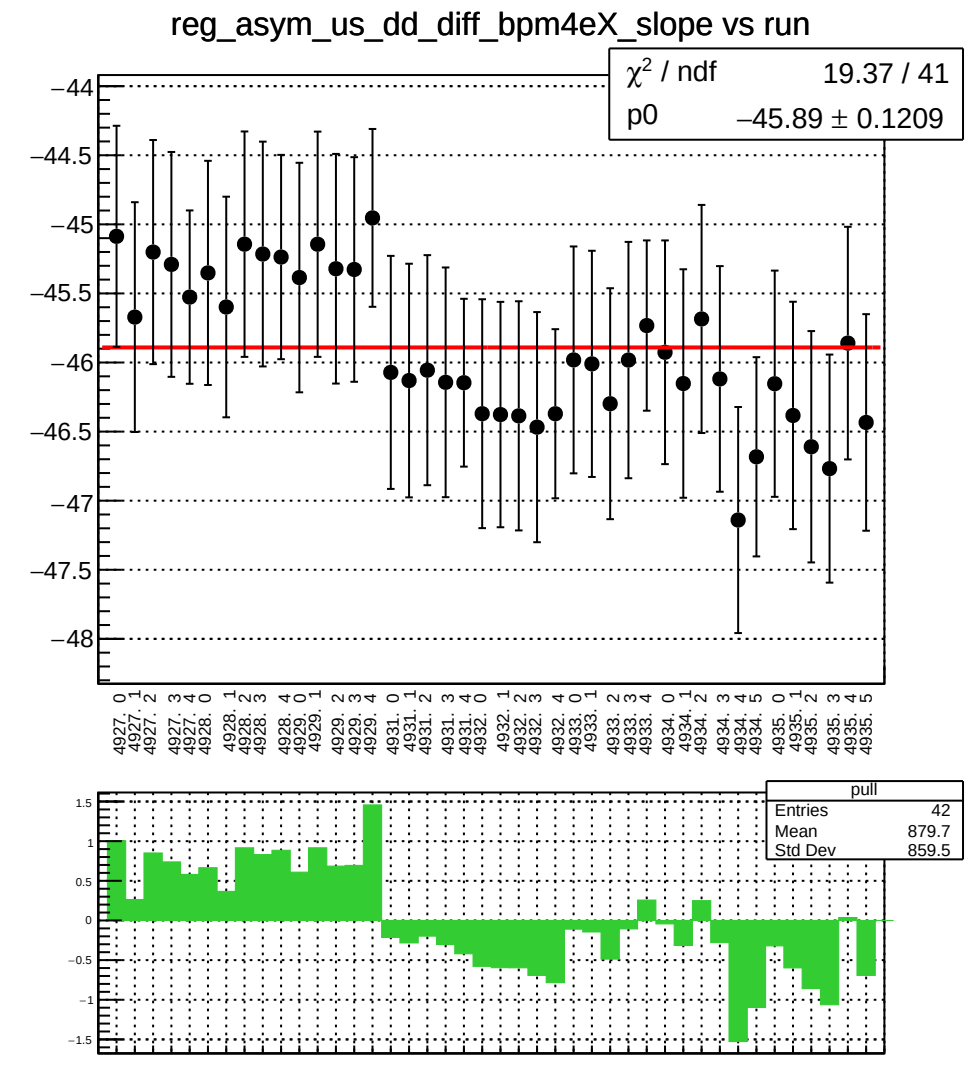

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 382.6 / 41
p0 6.621 ± 0.453
pull
Entries 42
Mean −60.67
Std Dev 83.89
pull1D
Entries 42
Mean 0.5654
Std Dev 2.265

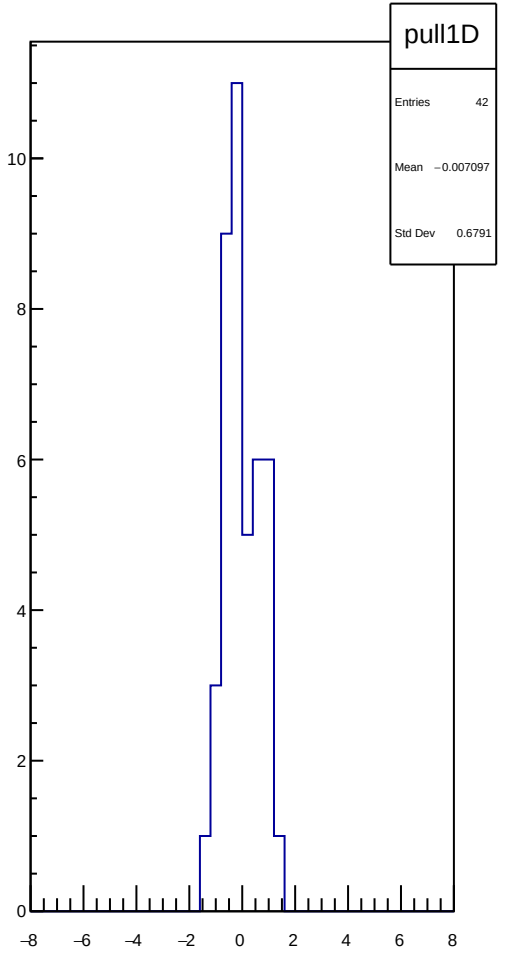

reg_asym_us_avg_diff_bpm11X_slope vs run
χ² / ndf 34.16 / 41
p0 −51.74 ± 0.108
−50
−51
−52
−53
−54
−55
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 1442
Std Dev 1420
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

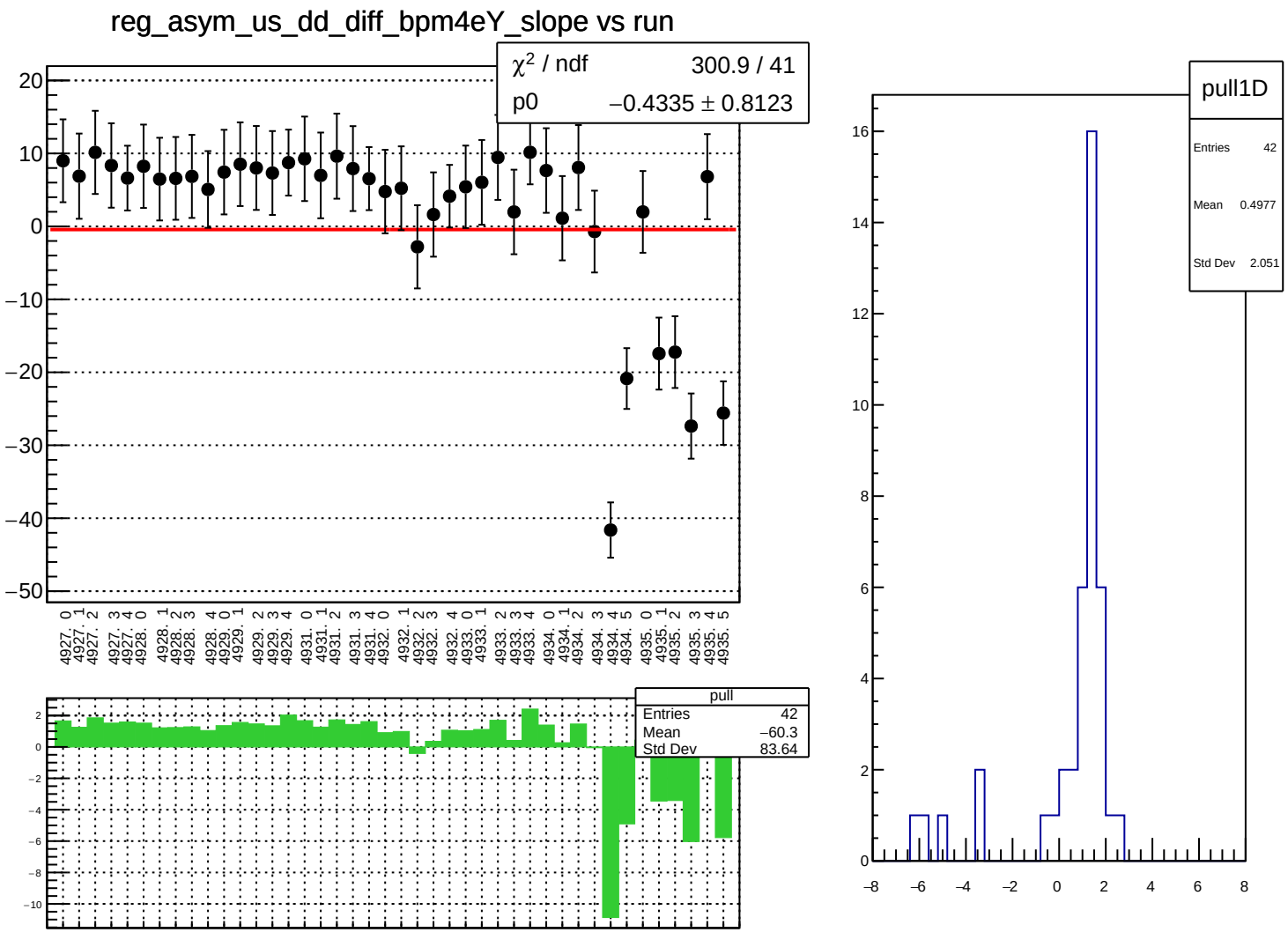

pull1D
Entries 42
Mean −0.005152
Std Dev 0.9019
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

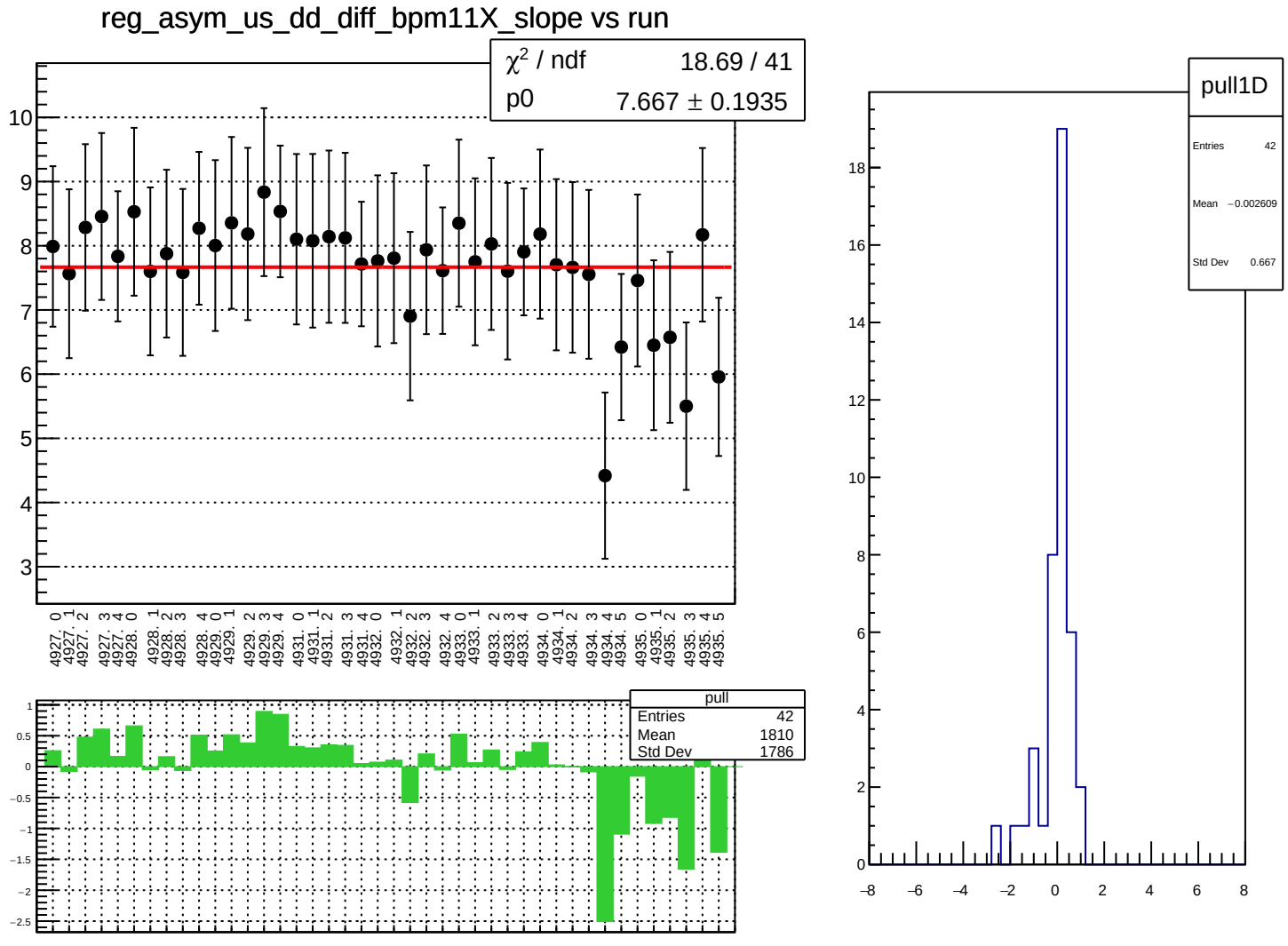

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 14.4 / 41
p0 28.07 ± 0.5716
pull
Entries 42
Mean 223.6
Std Dev 198.3
pull1D
Entries 42
Mean −0.01621
Std Dev 0.5852

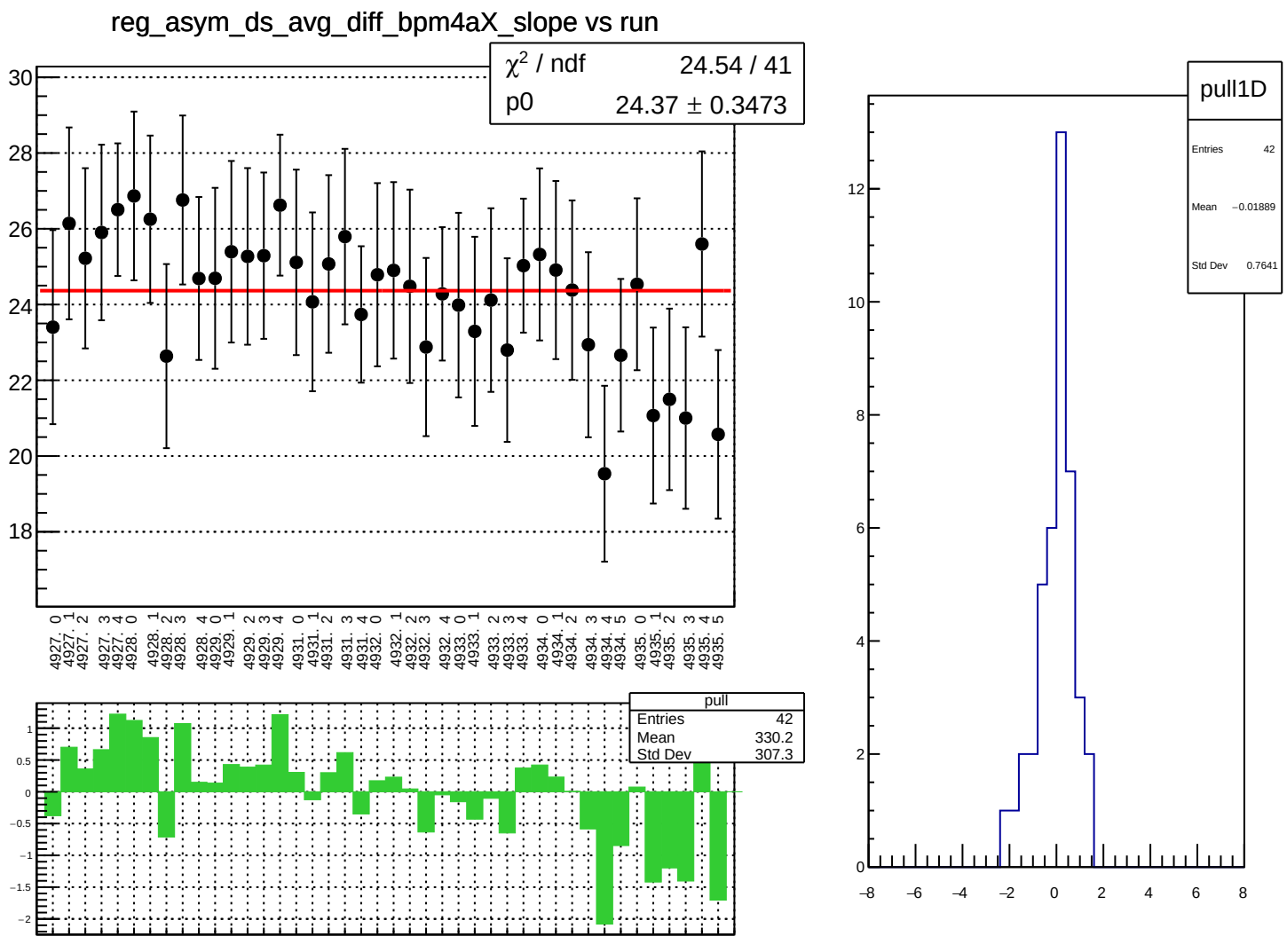

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 252.2 / 41
p0 −2.465 ± 0.7174
pull
Entries 42
Mean −77.91
Std Dev 101.4
pull1D
Entries 42
Mean −0.4144
Std Dev 1.921

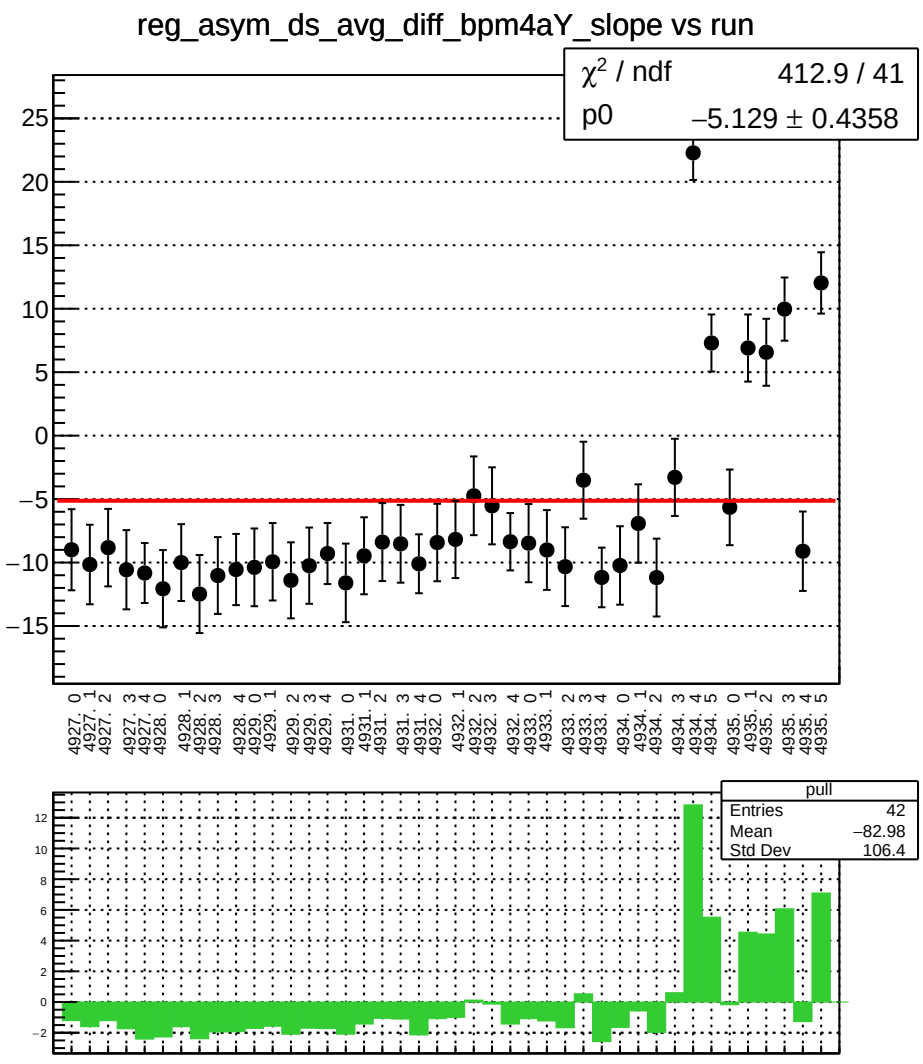

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.37 / 41
p0 −45.89 ± 0.1209
pull
Entries 42
Mean 879.7
Std Dev 859.5

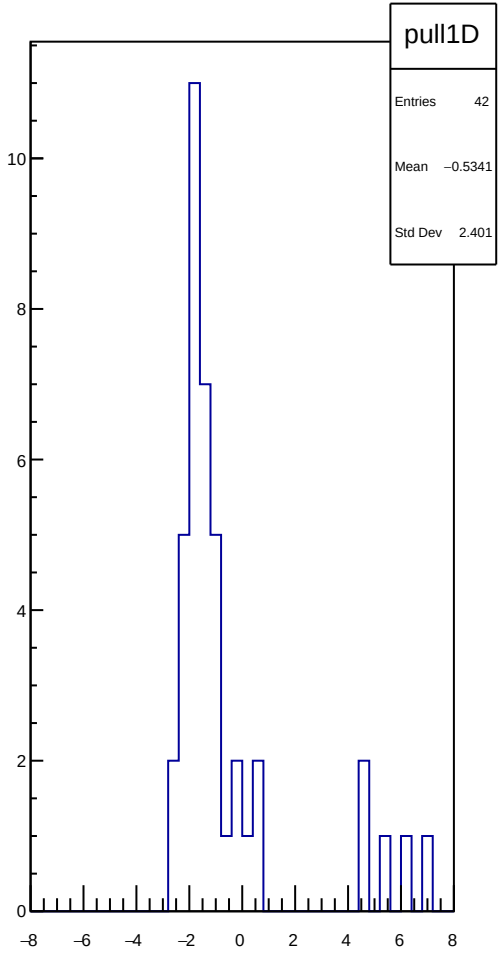

pull1D
Entries 42
Mean −0.007097
Std Dev 0.6791

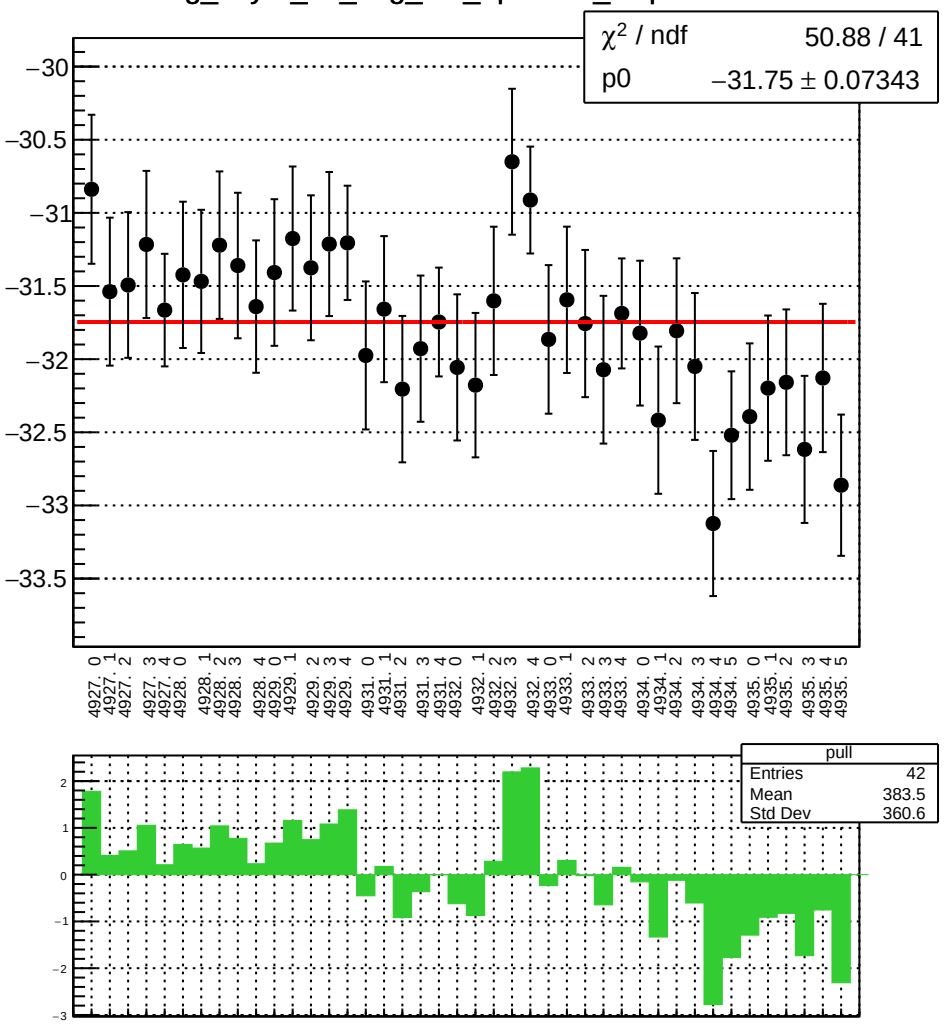

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 300.9 / 41
p0 −0.4335 ± 0.8123
pull
Entries 42
Mean −60.3
Std Dev 83.64
pull1D
Entries 42
Mean 0.4977
Std Dev 2.051

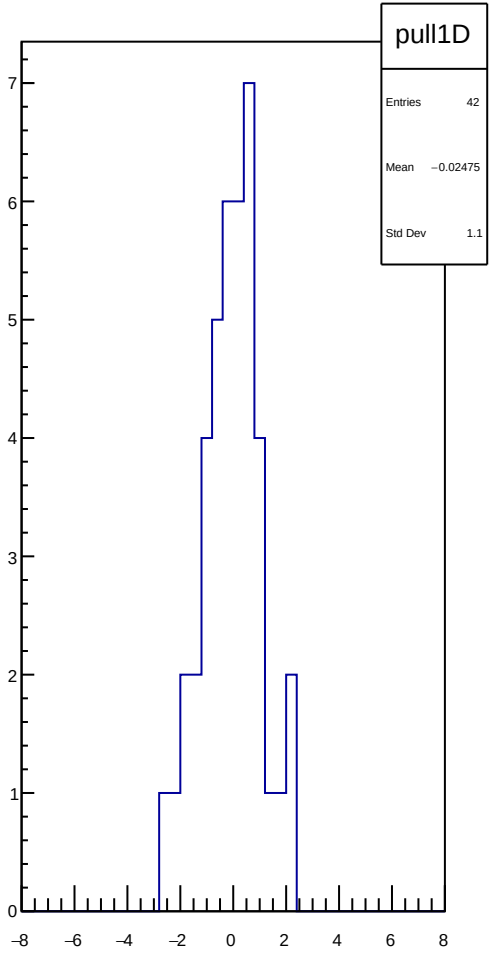

reg_asym_us_dd_diff_bpm11X_slope vs run
χ² / ndf 18.69 / 41
p0 7.667 ± 0.1935
pull
Entries 42
Mean 1810
Std Dev 1786
pull1D
Entries 42
Mean −0.002609
Std Dev 0.667

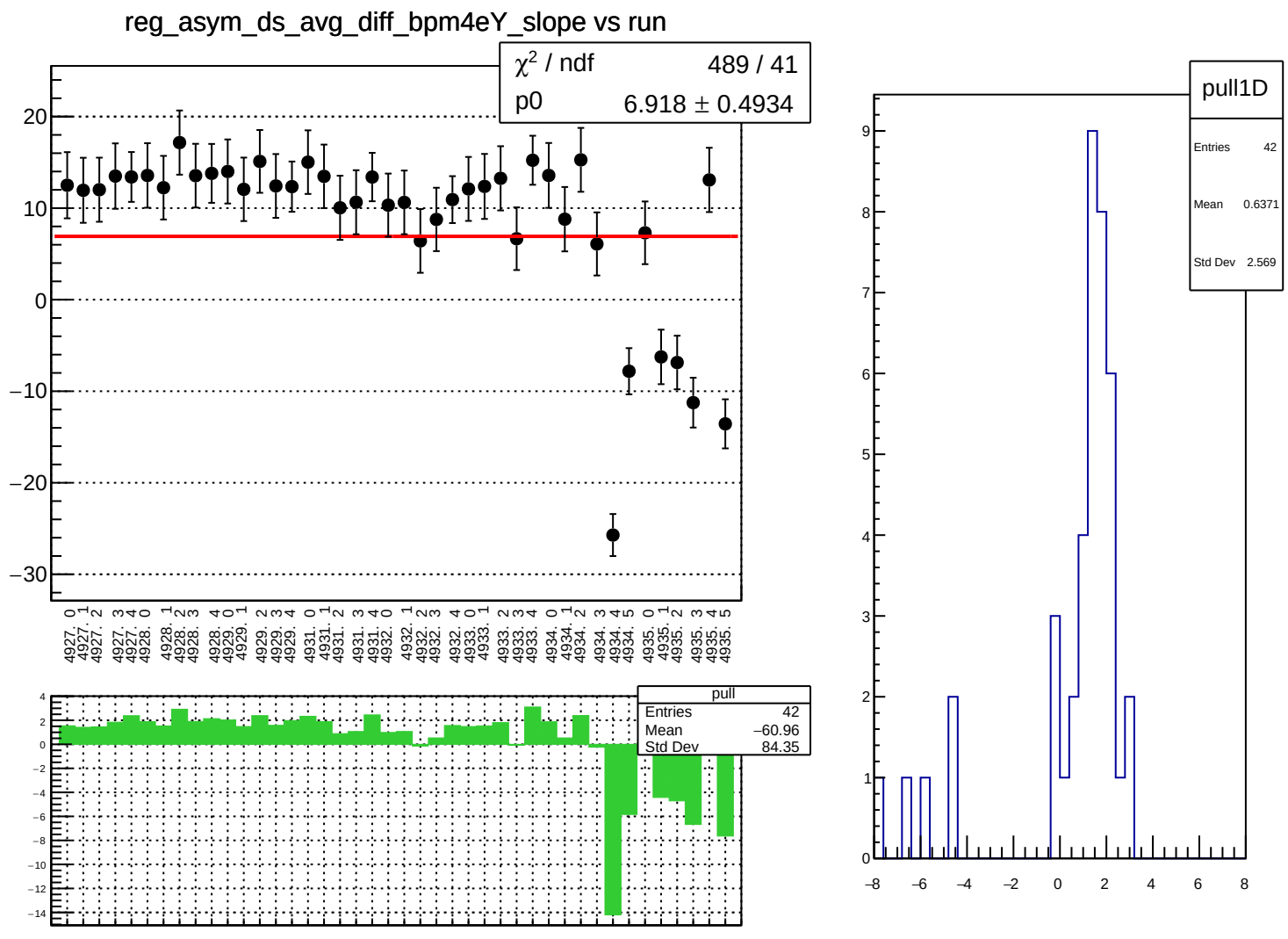

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 24.54 / 41
p0 24.37 ± 0.3473
pull
Entries 42
Mean 330.2
Std Dev 307.3
pull1D
Entries 42
Mean −0.01889
Std Dev 0.7641

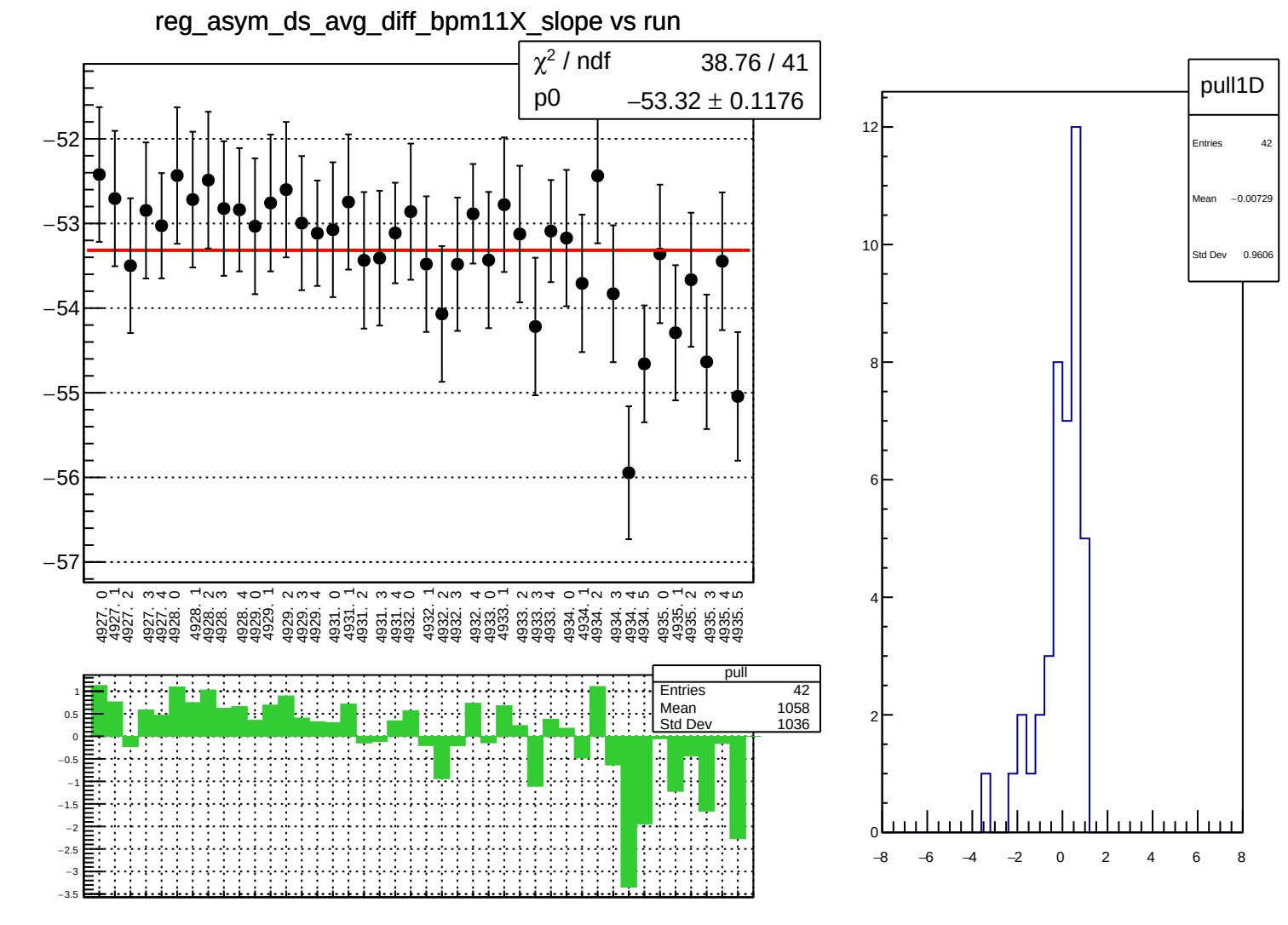

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 412.9 / 41
p0 −5.129 ± 0.4358
pull
Entries 42
Mean −82.98
Std Dev 106.4

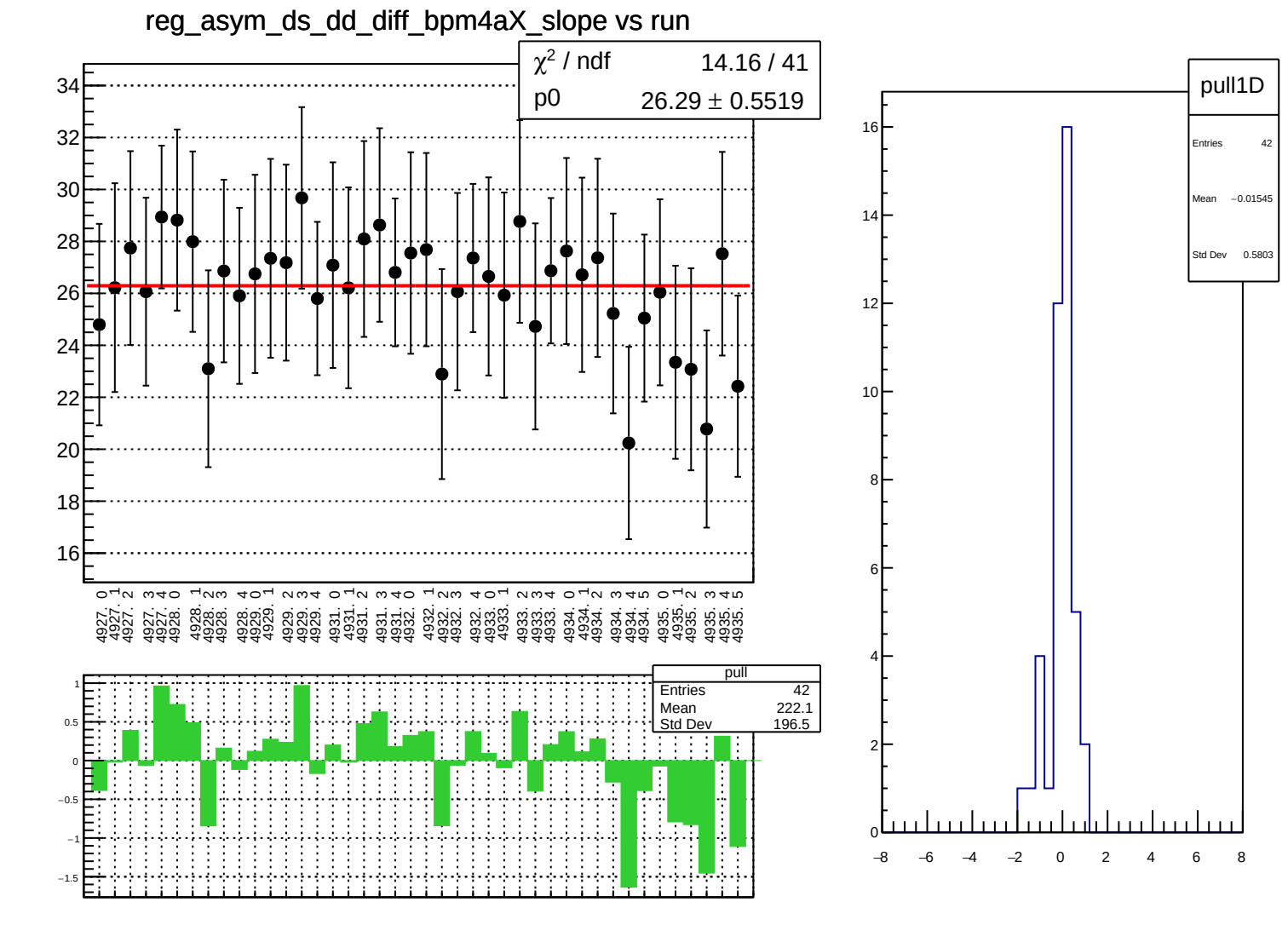

pull1D
Entries 42
Mean −0.5341
Std Dev 2.401

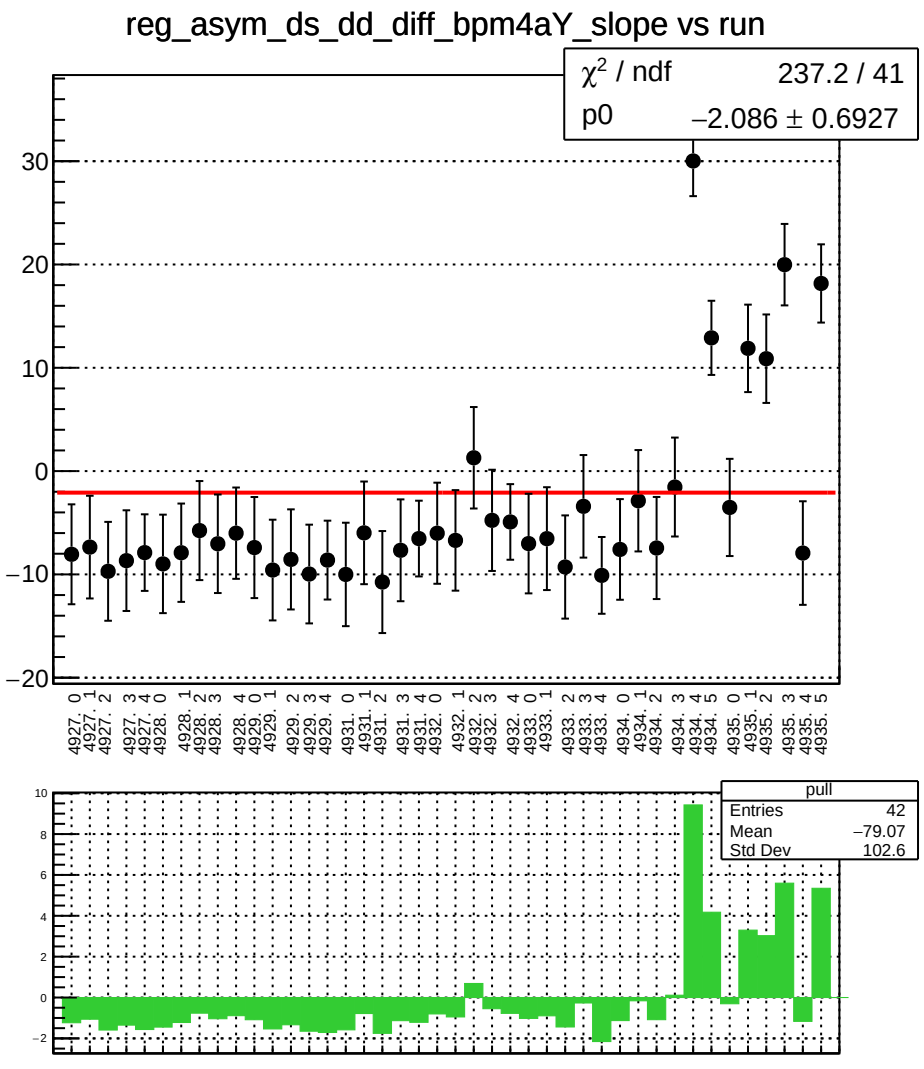

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 50.88 / 41
p0 −31.75 ± 0.07343
pull
Entries 42
Mean 383.5
Std Dev 360.6

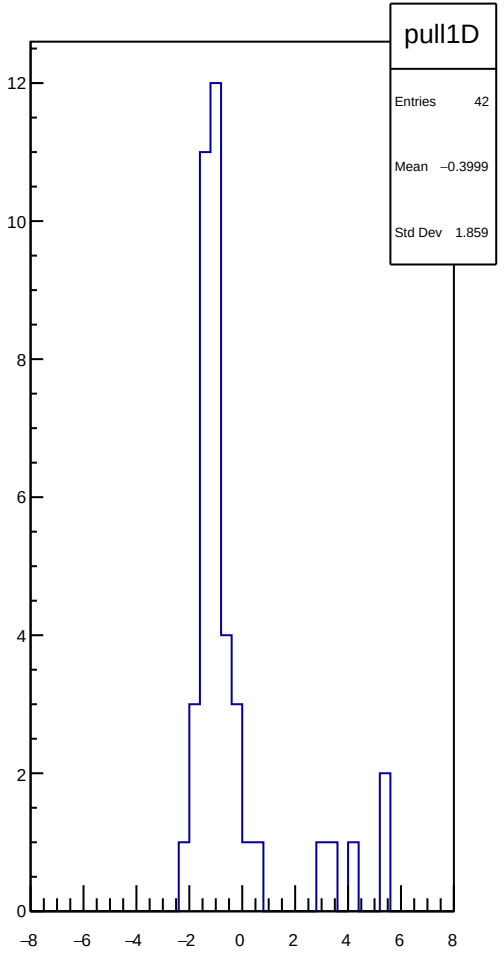

pull1D
Entries 42
Mean −0.02475
Std Dev 1.1

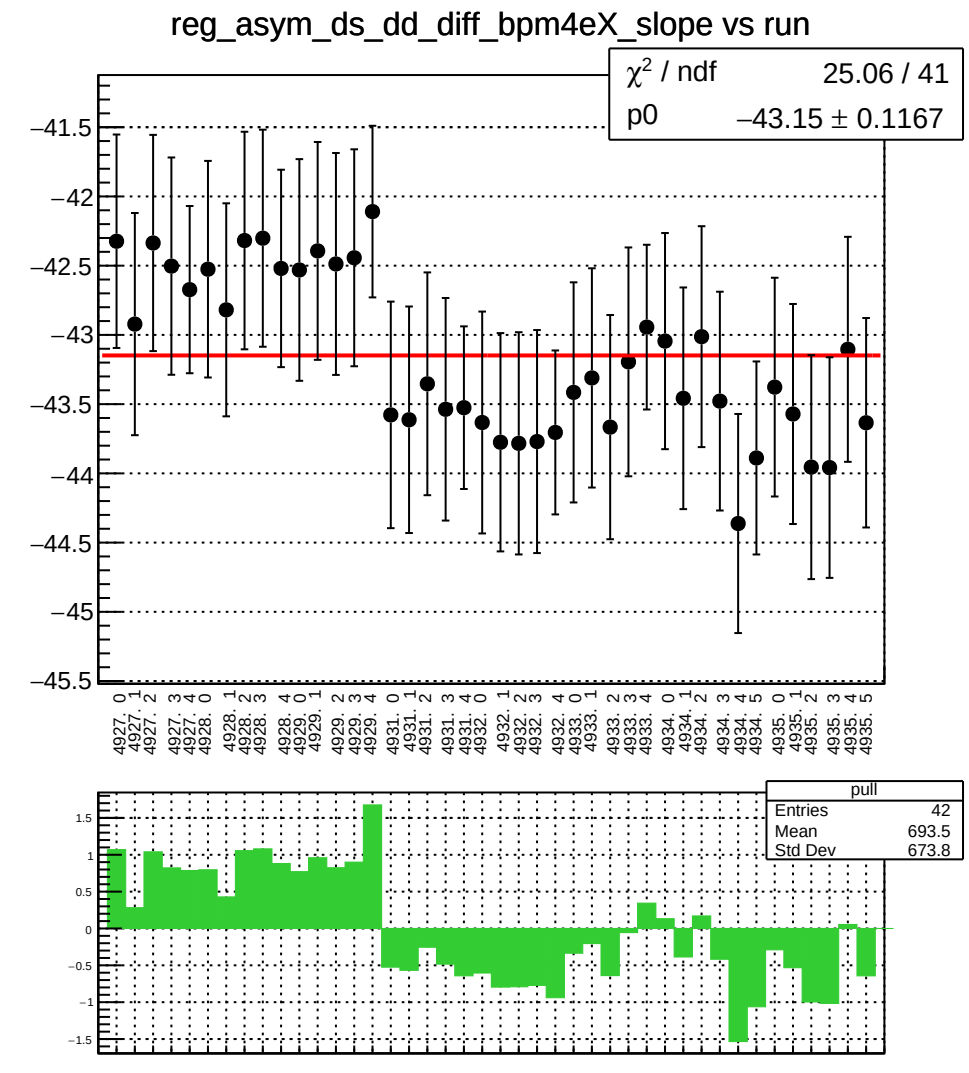

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 489 / 41
p0 6.918 ± 0.4934
pull
Entries 42
Mean −60.96
Std Dev 84.35
pull1D
Entries 42
Mean 0.6371
Std Dev 2.569

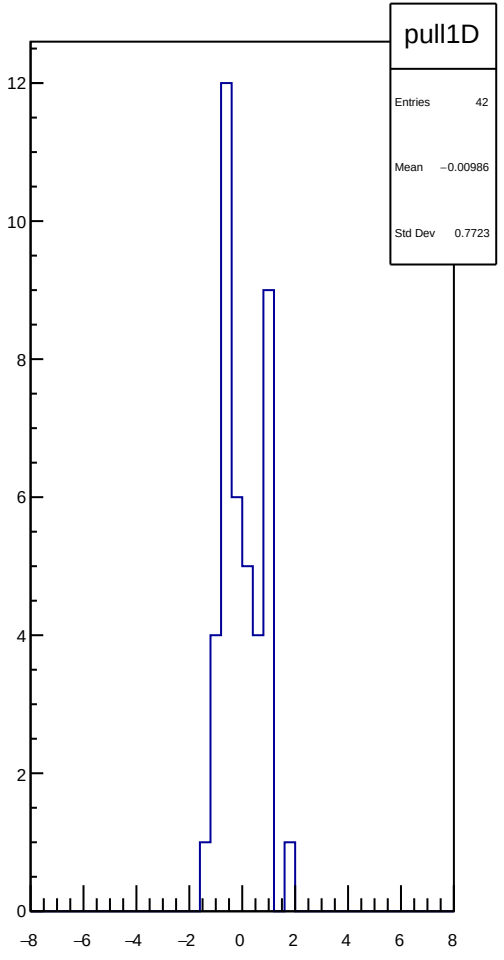

reg_asym_ds_avg_diff_bpm11X_slope vs run
χ² / ndf 38.76 / 41
p0 −53.32 ± 0.1176
pull
Entries 42
Mean 1058
Std Dev 1036
pull1D
Entries 42
Mean −0.00729
Std Dev 0.9606

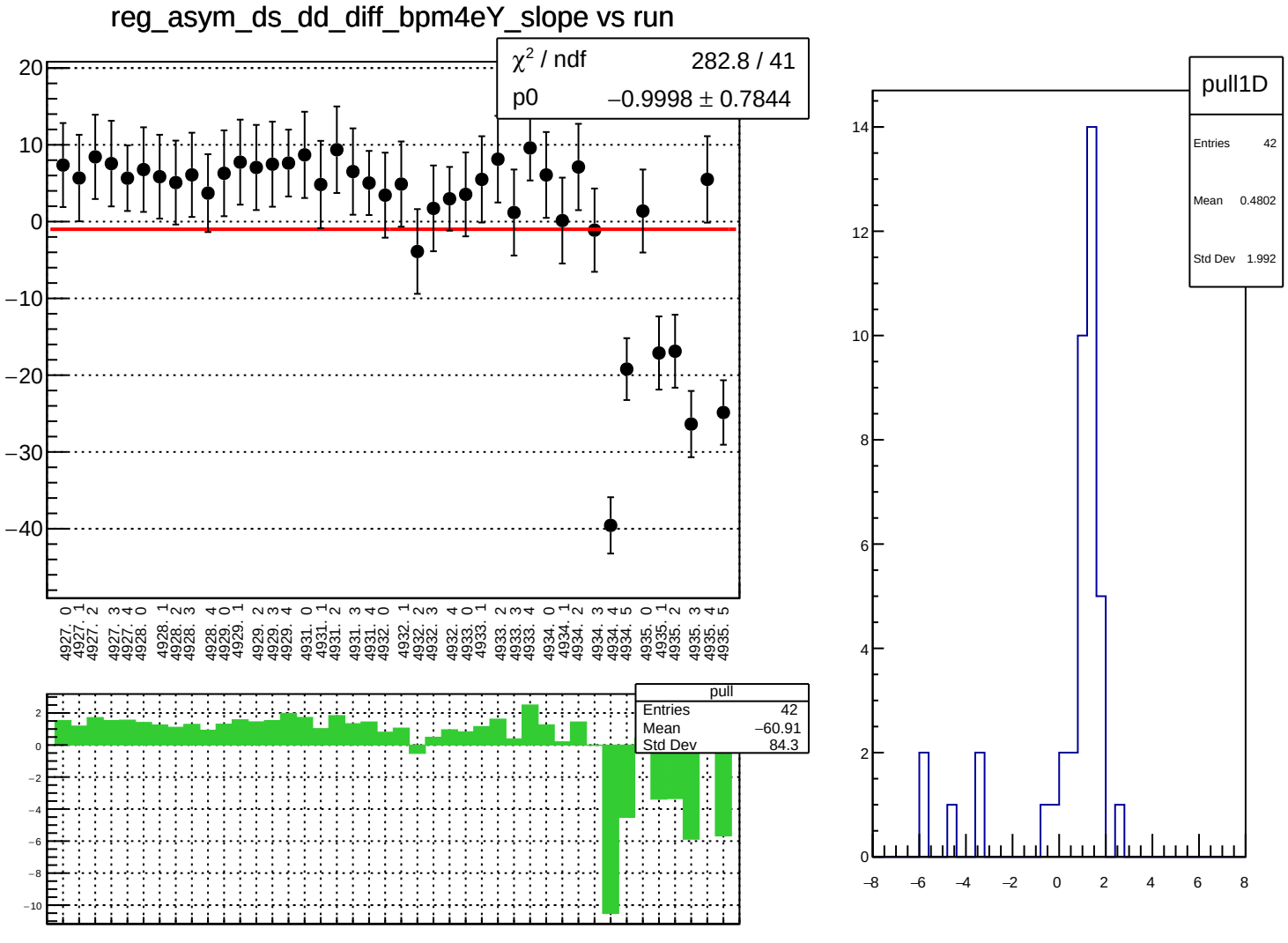

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 14.16 / 41
p0 26.29 ± 0.5519
pull
Entries 42
Mean 222.1
Std Dev 196.5
pull1D
Entries 42
Mean −0.01545
Std Dev 0.5803

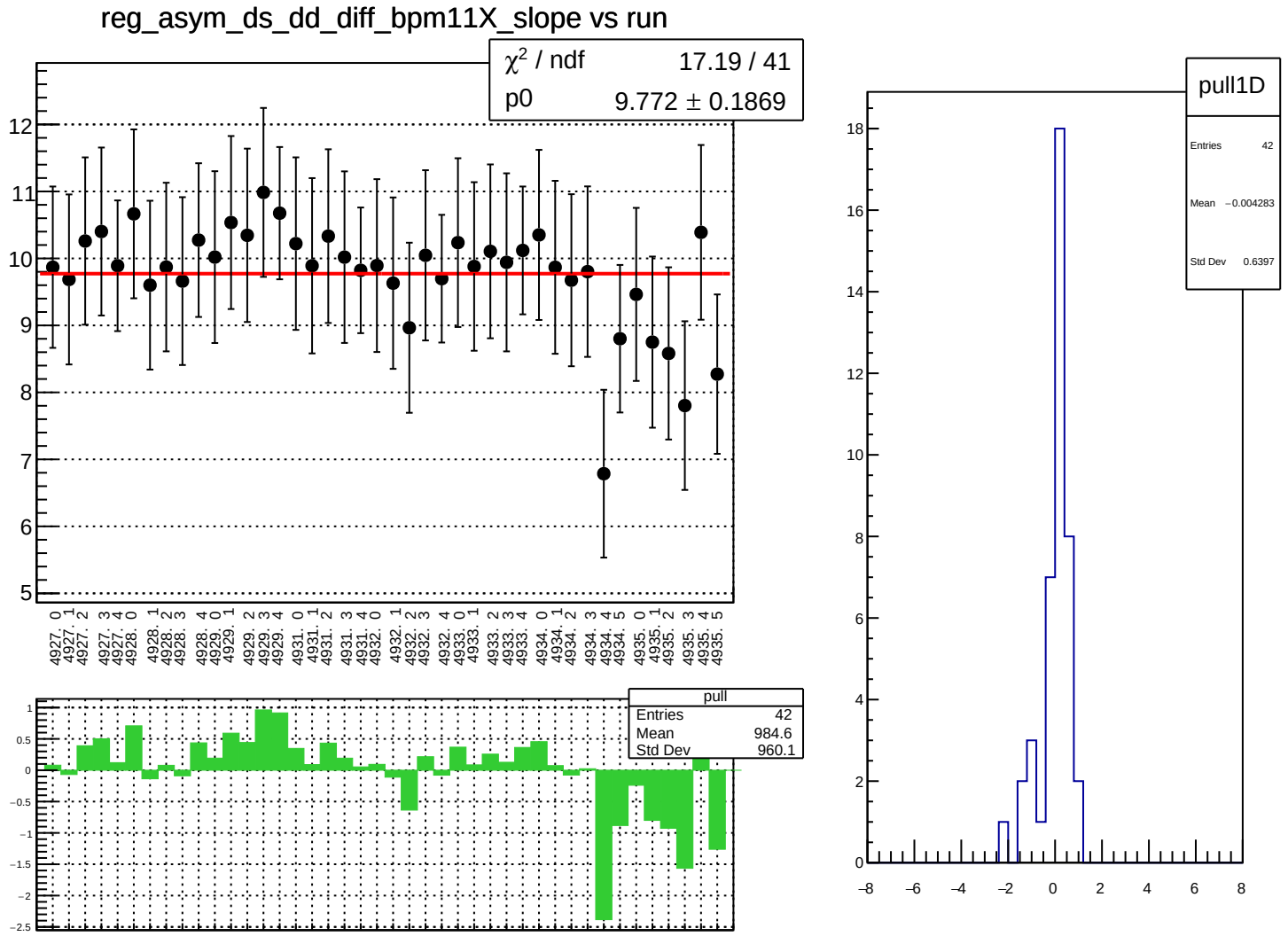

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 237.2 / 41
p0 −2.086 ± 0.6927
pull
Entries 42
Mean −79.07
Std Dev 102.6

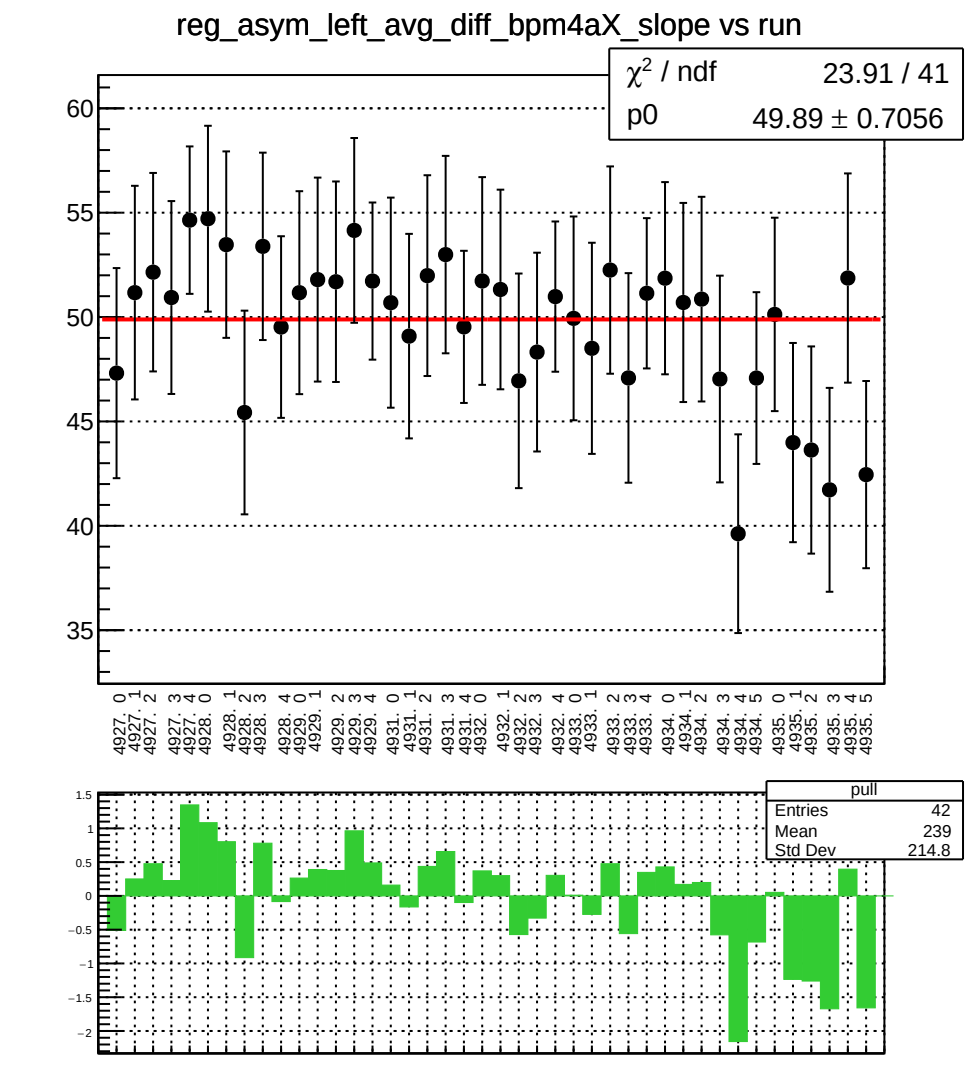

pull1D
Entries 42
Mean −0.3999
Std Dev 1.859

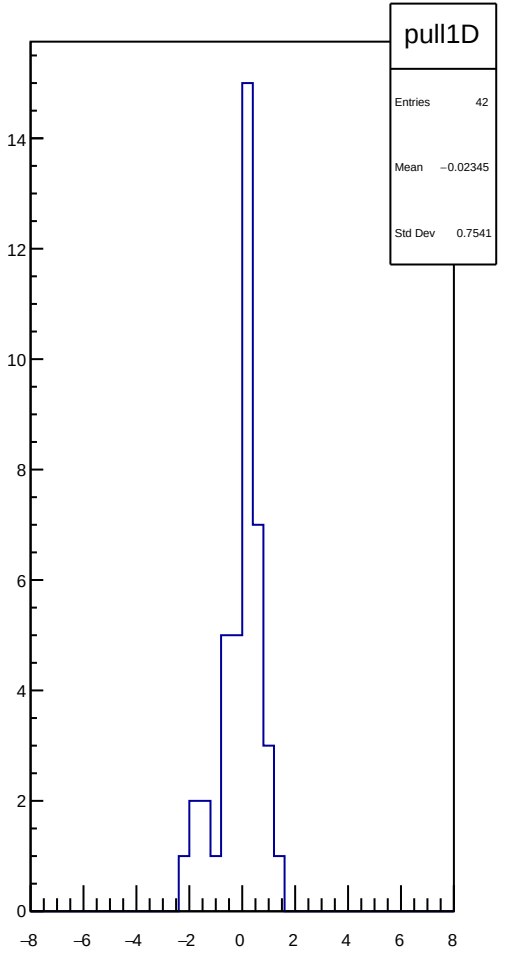

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.06 / 41
p0 −43.15 ± 0.1167
pull
Entries 42
Mean 693.5
Std Dev 673.8

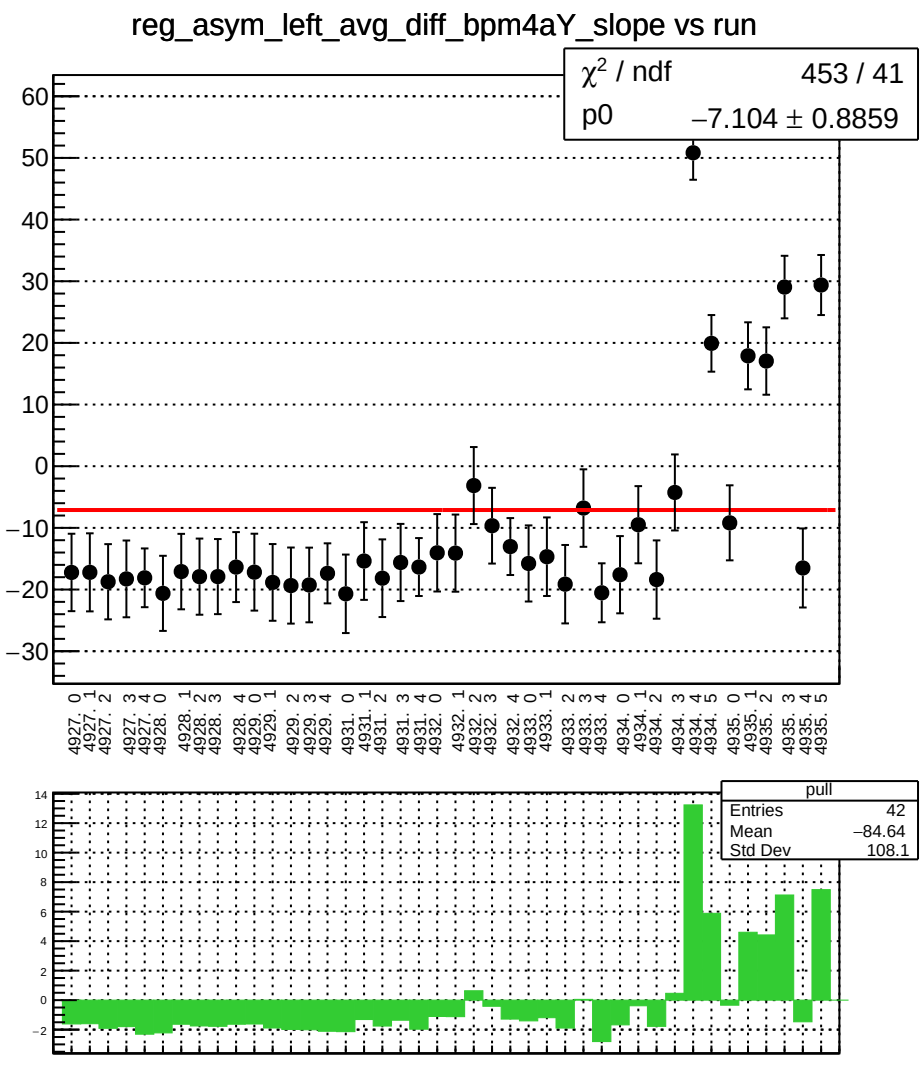

pull1D
Entries 42
Mean −0.00986
Std Dev 0.7723

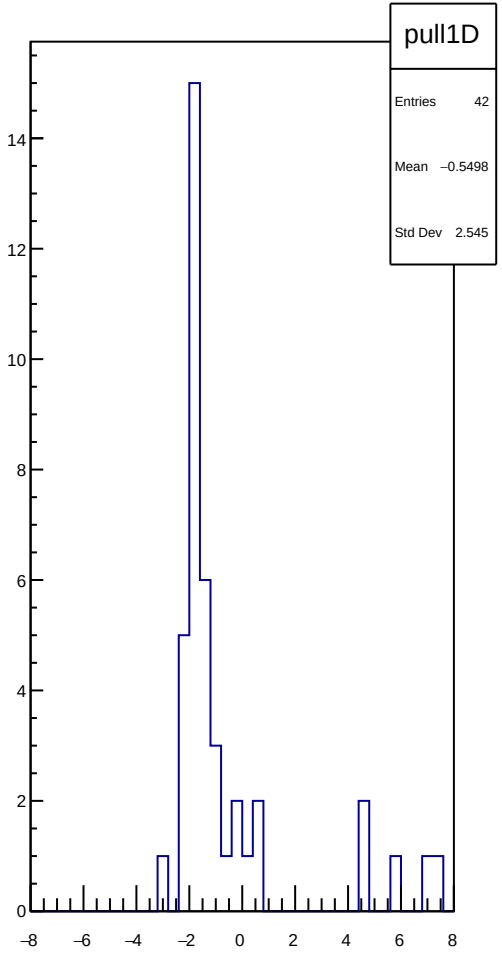

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 282.8 / 41
p0 −0.9998 ± 0.7844
pull
Entries 42
Mean −60.91
Std Dev 84.3
pull1D
Entries 42
Mean 0.4802
Std Dev 1.992

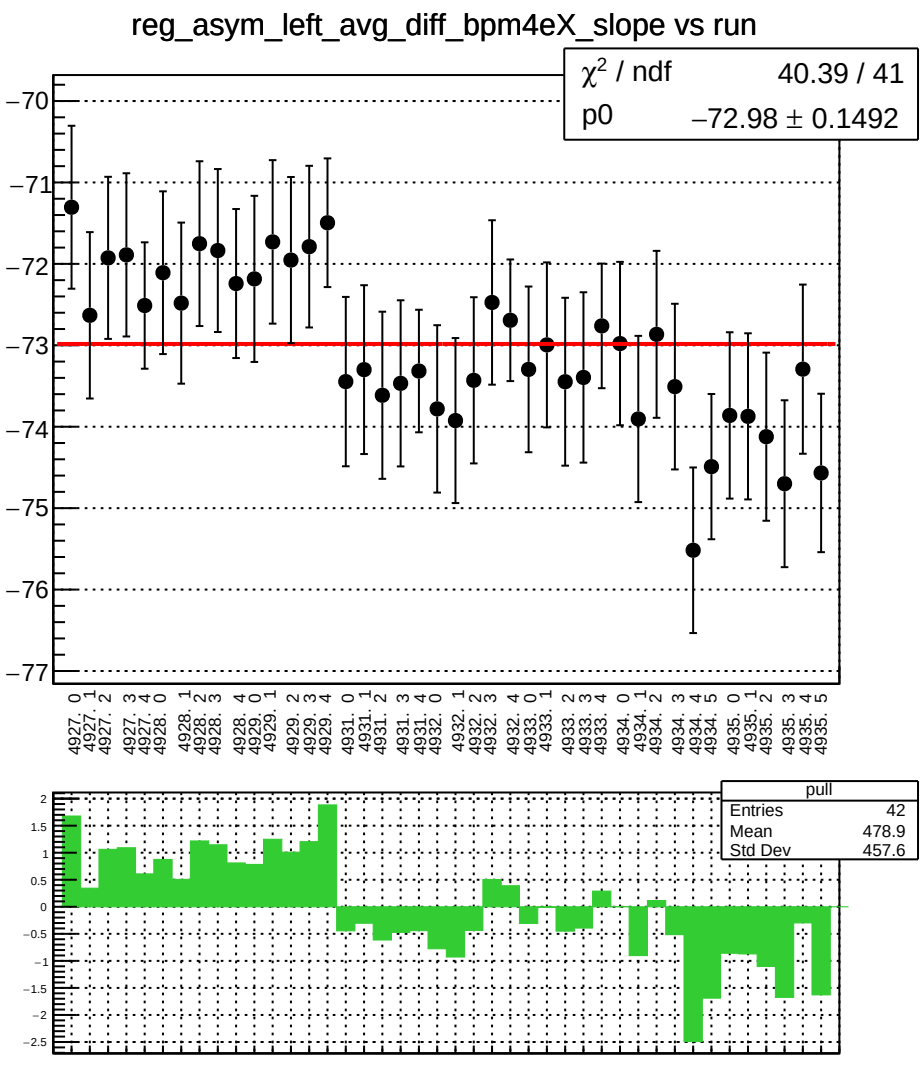

reg_asym_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 17.19 / 41
p0 9.772 ± 0.1869
pull
Entries 42
Mean 984.6
Std Dev 960.1
pull1D
Entries 42
Mean −0.004283
Std Dev 0.6397

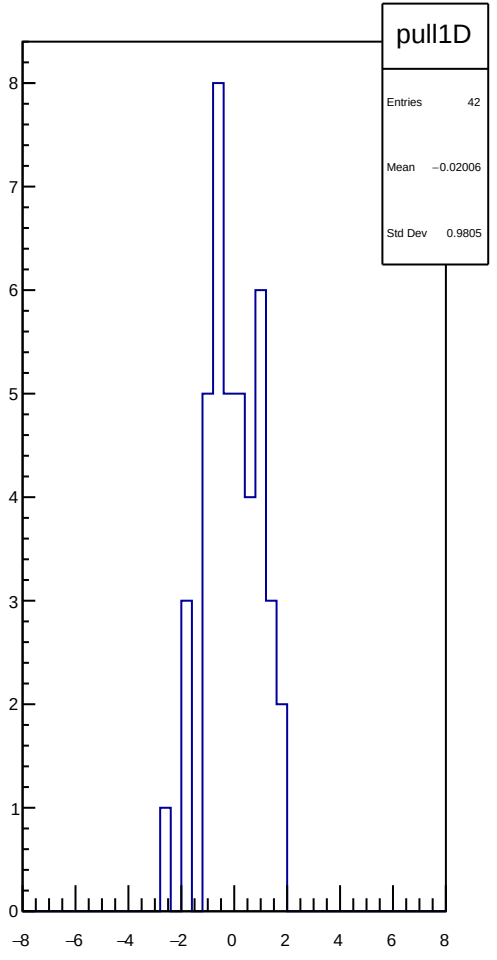

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 23.91 / 41
p0 49.89 ± 0.7056
pull
Entries 42
Mean 239
Std Dev 214.8

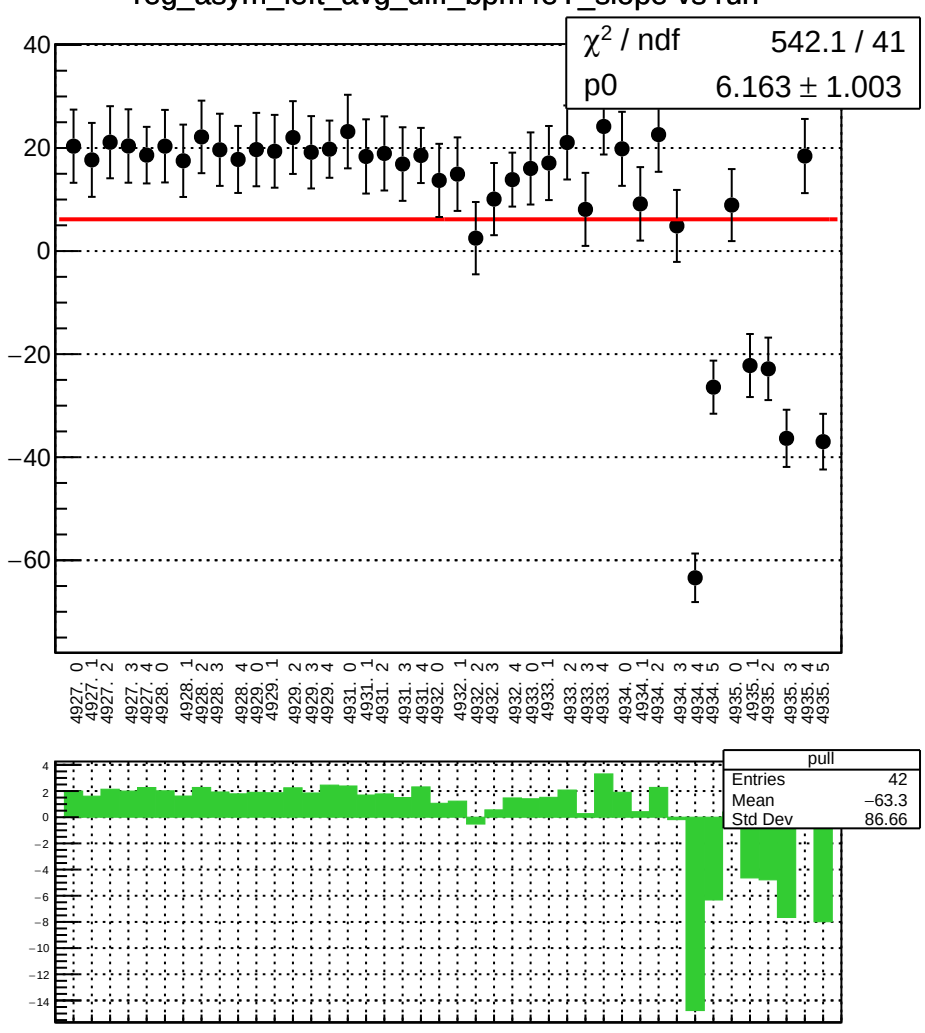

pull1D
Entries 42
Mean −0.02345
Std Dev 0.7541

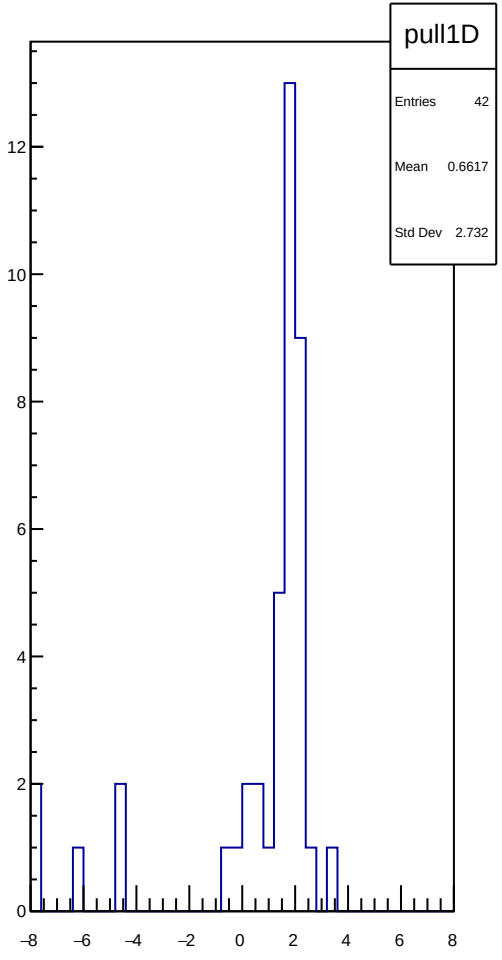

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 453 / 41
p0 −7.104 ± 0.8859
pull
Entries 42
Mean −84.64
Std Dev 108.1

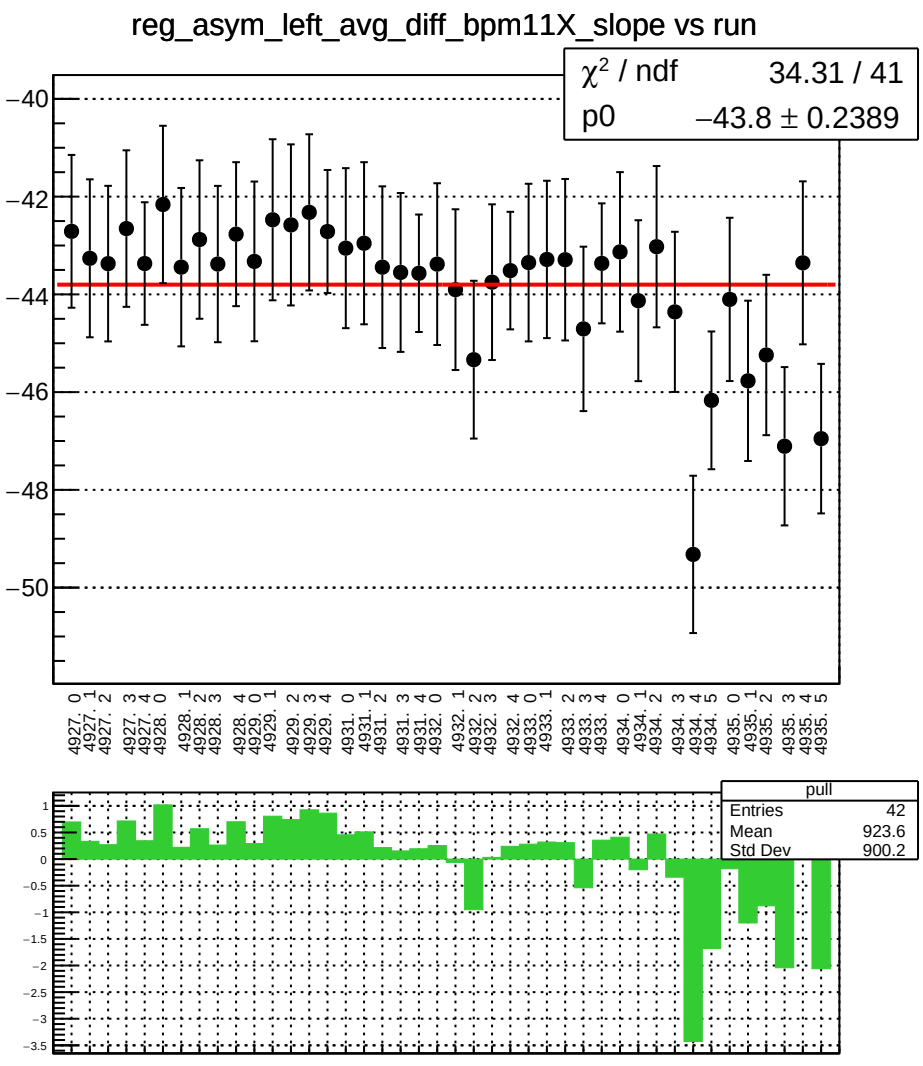

pull1D
Entries 42
Mean −0.5498
Std Dev 2.545

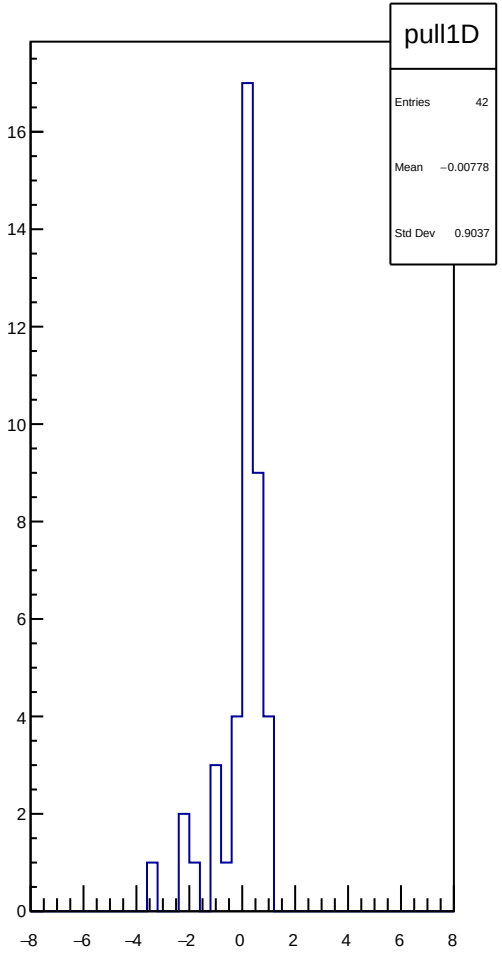

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 40.39 / 41
p0 −72.98 ± 0.1492
pull
Entries 42
Mean 478.9
Std Dev 457.6

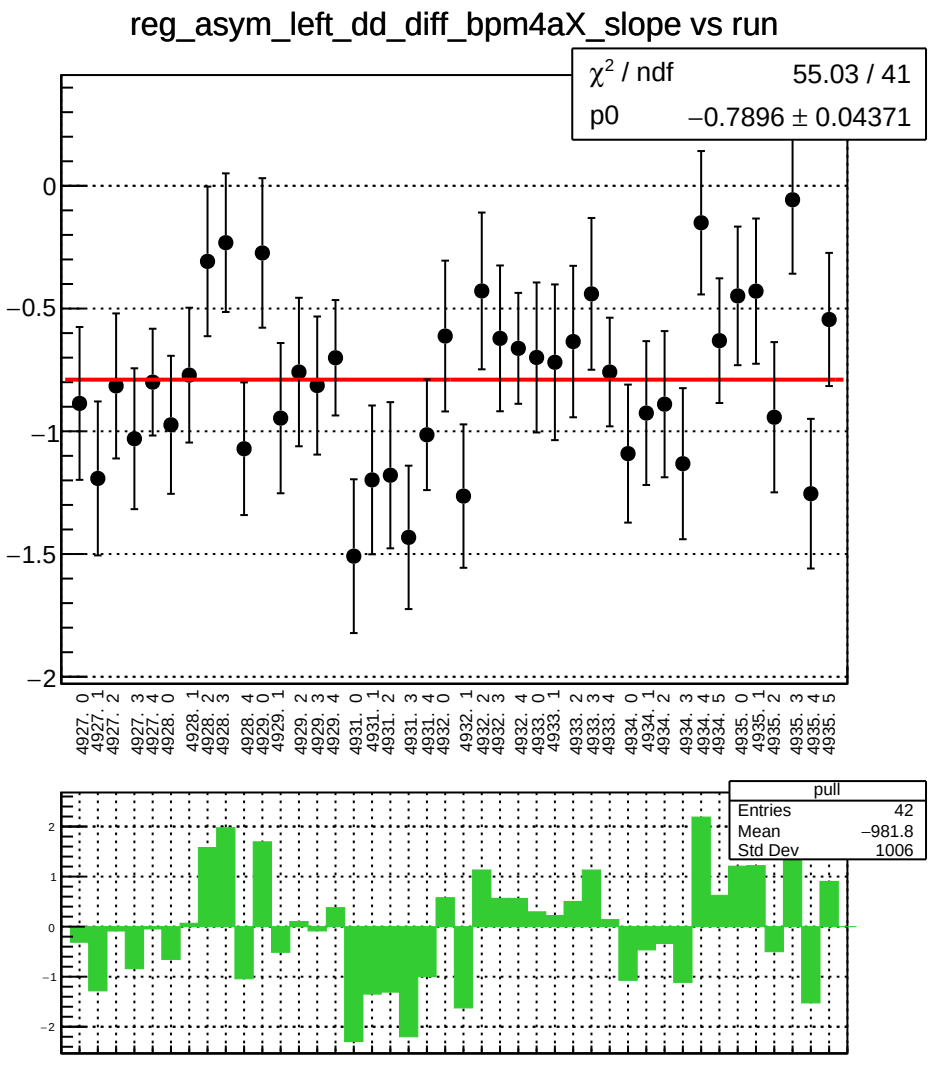

pull1D
Entries 42
Mean −0.02006
Std Dev 0.9805

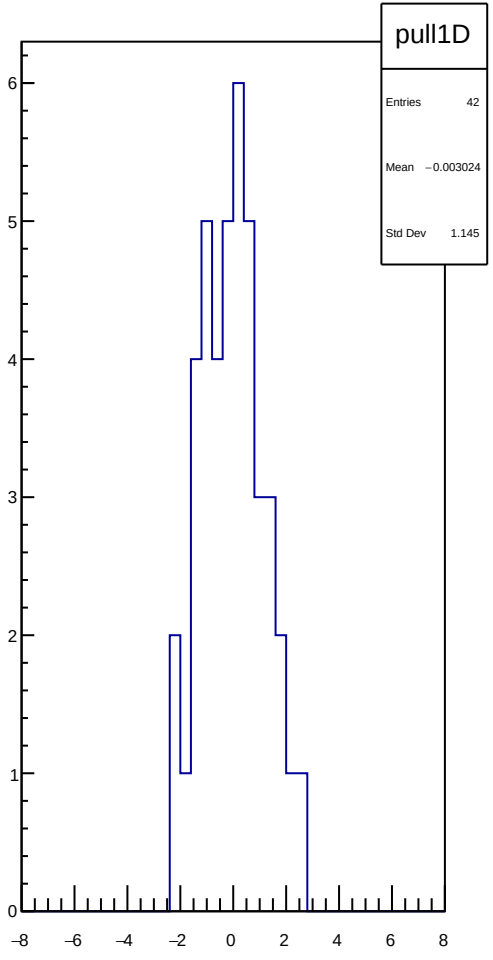

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 542.1 / 41
p0 6.163 ± 1.003
pull
Entries 42
Mean −63.3
Std Dev 86.66

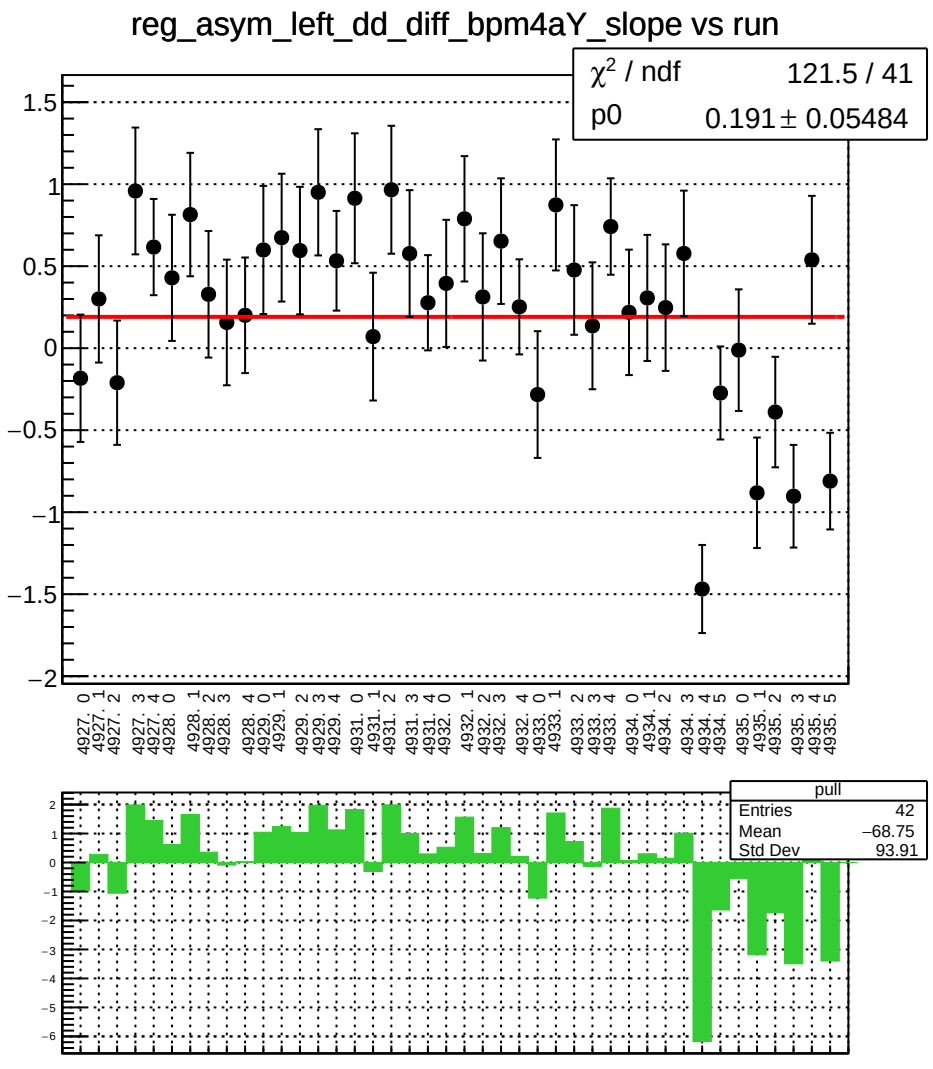

pull1D
Entries 42
Mean 0.6617
Std Dev 2.732

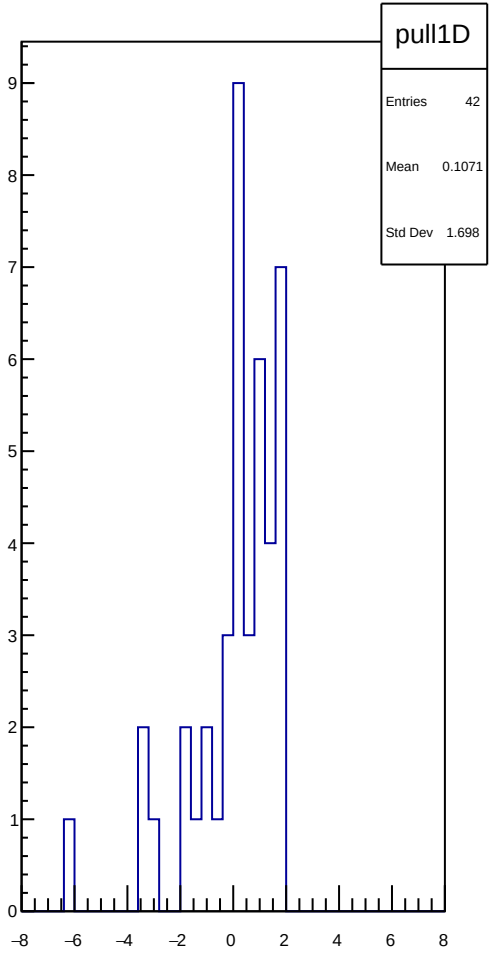

reg_asym_left_avg_diff_bpm11X_slope vs run
χ² / ndf 34.31 / 41
p0 −43.8 ± 0.2389
pull
Entries 42
Mean 923.6
Std Dev 900.2

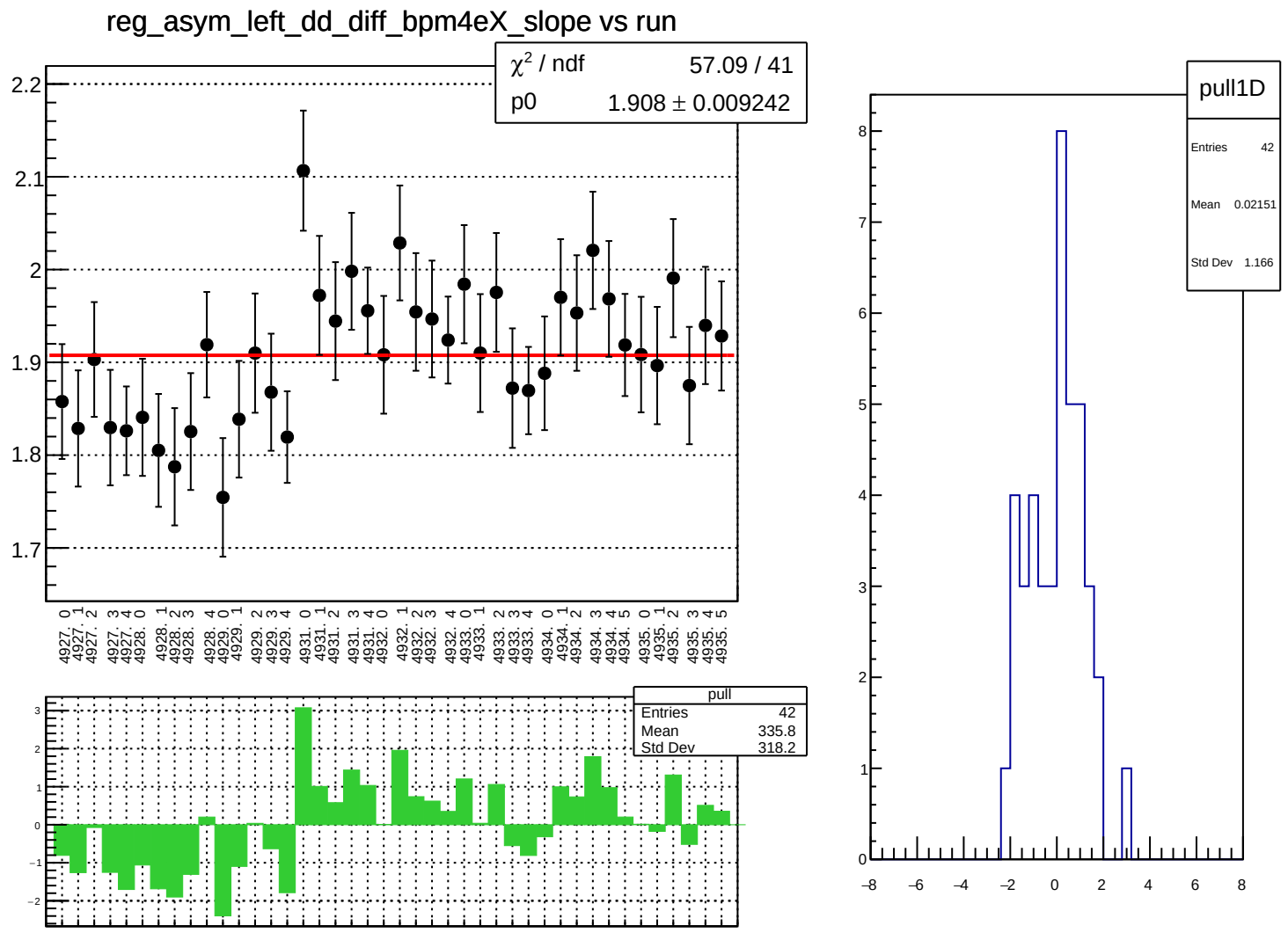

pull1D
Entries 42
Mean −0.00778
Std Dev 0.9037

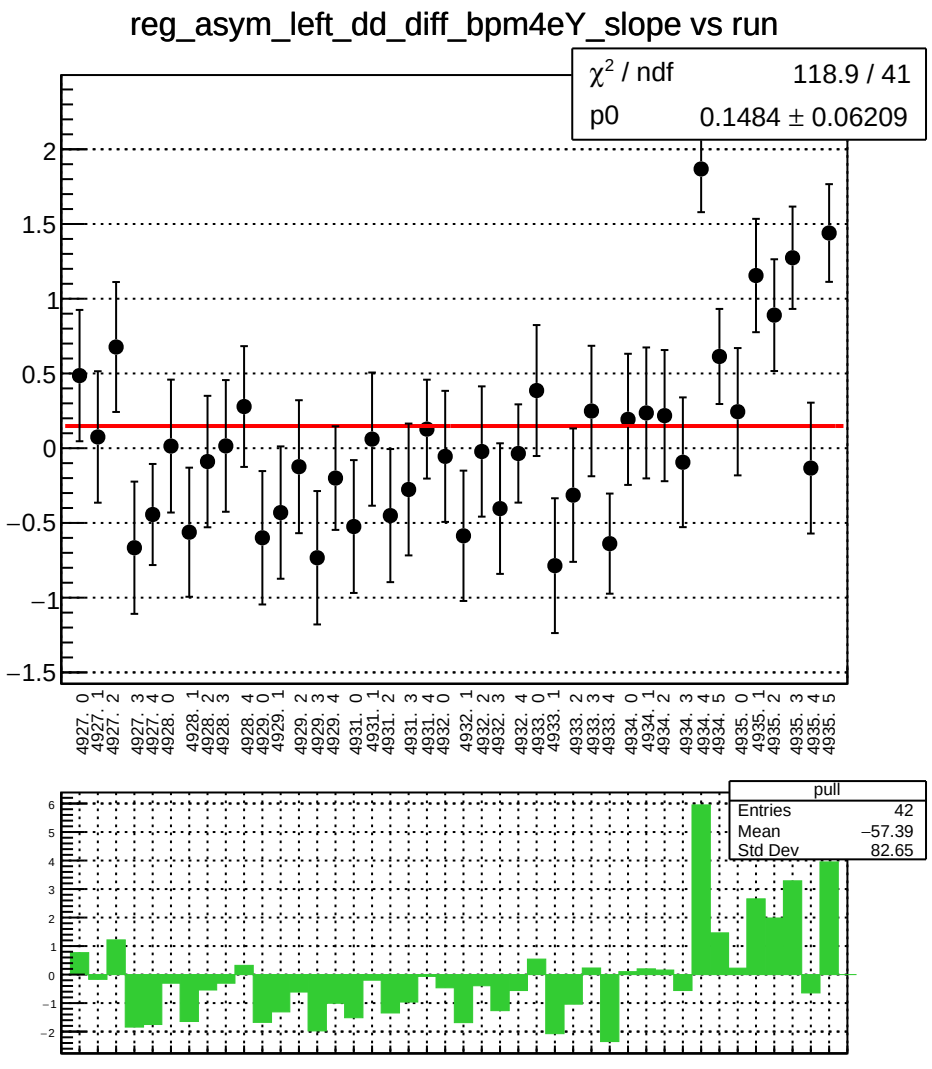

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 55.03 / 41
p0 −0.7896 ± 0.04371
pull
Entries 42
Mean −981.8
Std Dev 1006

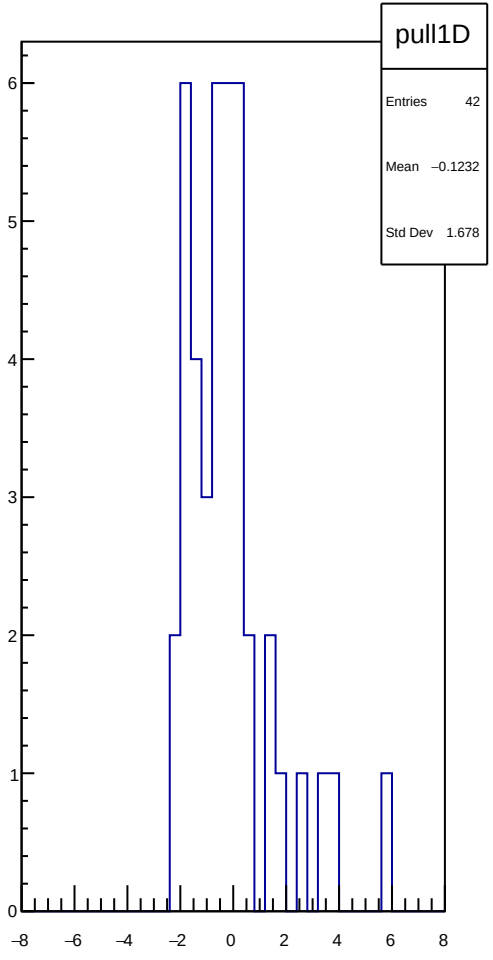

pull1D
Entries 42
Mean −0.003024
Std Dev 1.145

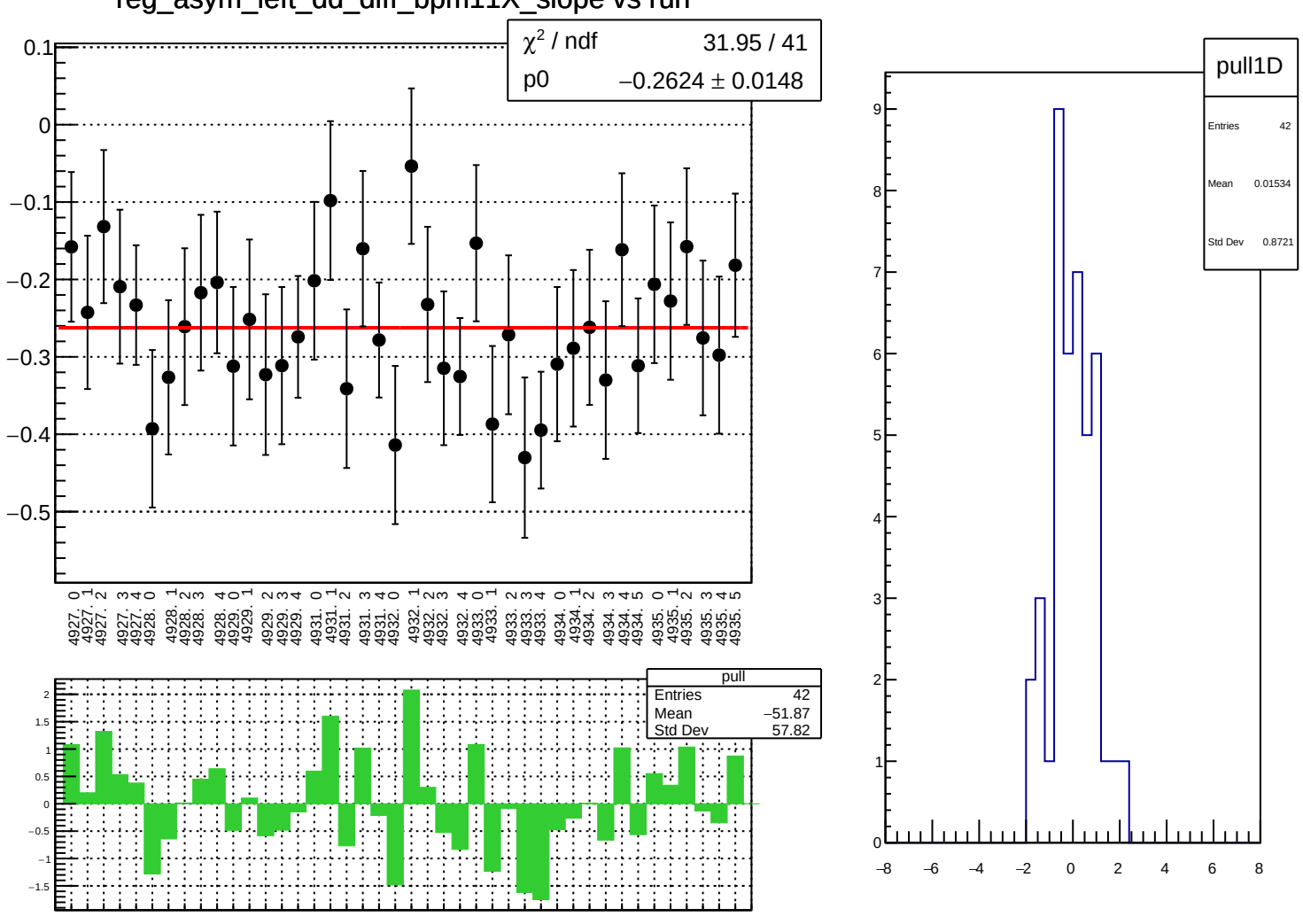

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 121.5 / 41
p0 0.191 ± 0.05484
pull
Entries 42
Mean −68.75
Std Dev 93.91

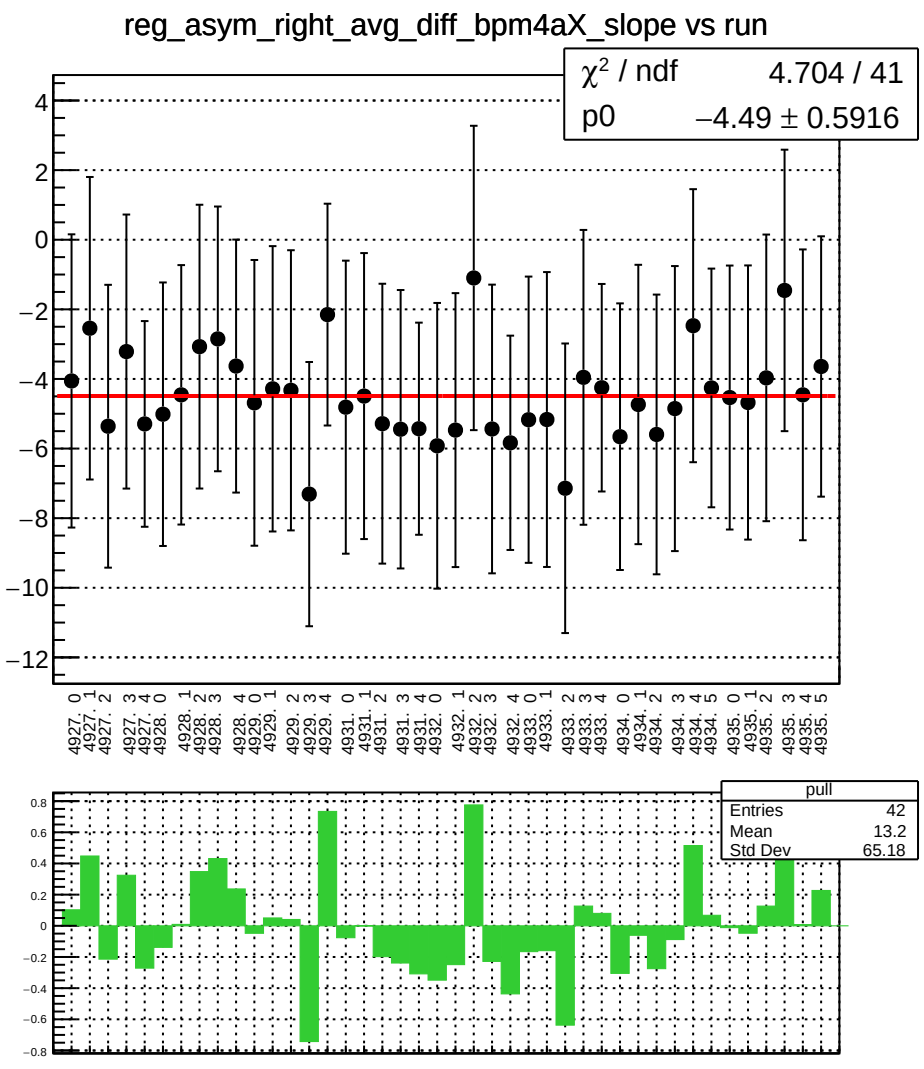

pull1D
Entries 42
Mean 0.1071
Std Dev 1.698

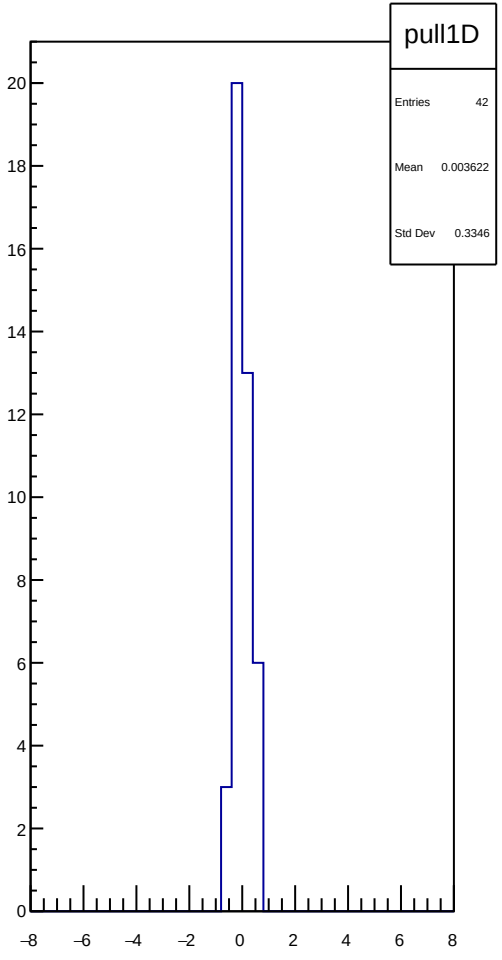

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 57.09 / 41
p0 1.908 ± 0.009242
pull
Entries 42
Mean 335.8
Std Dev 318.2
pull1D
Entries 42
Mean 0.02151
Std Dev 1.166

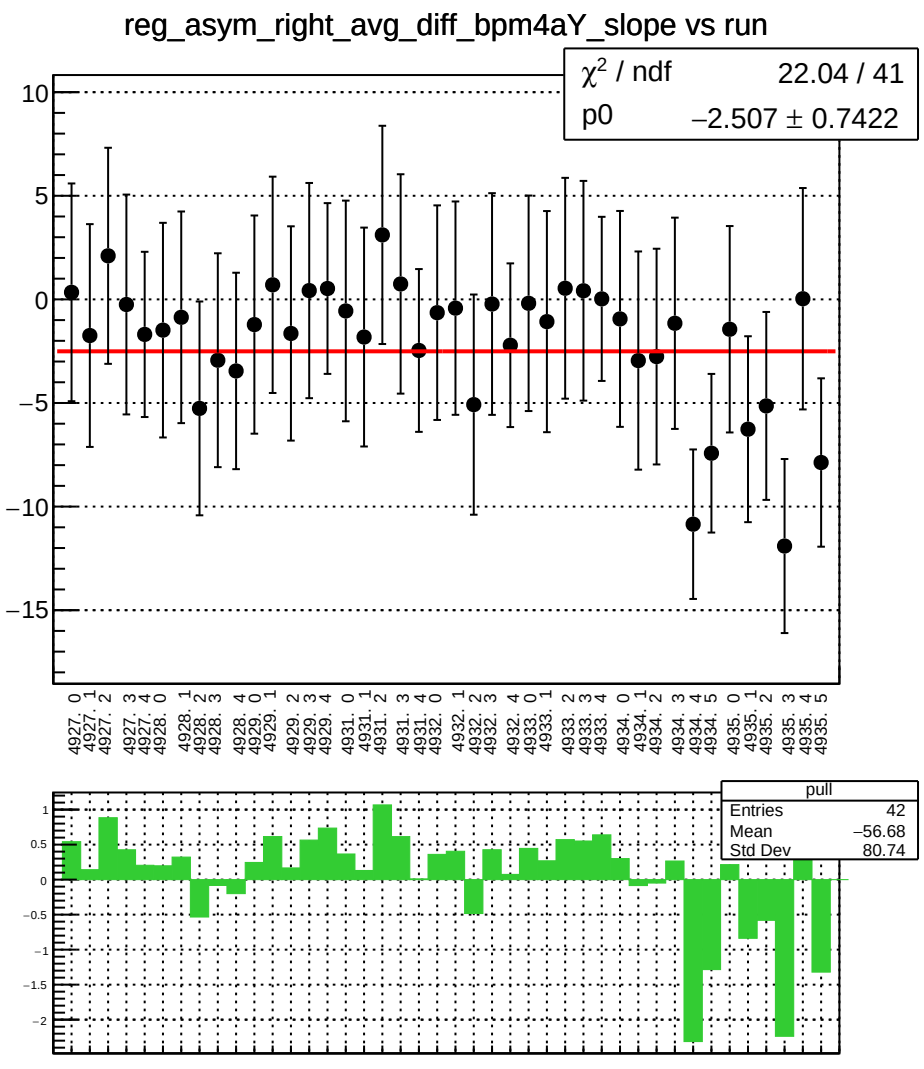

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 118.9 / 41
p0 0.1484 ± 0.06209
pull
Entries 42
Mean −57.39
Std Dev 82.65

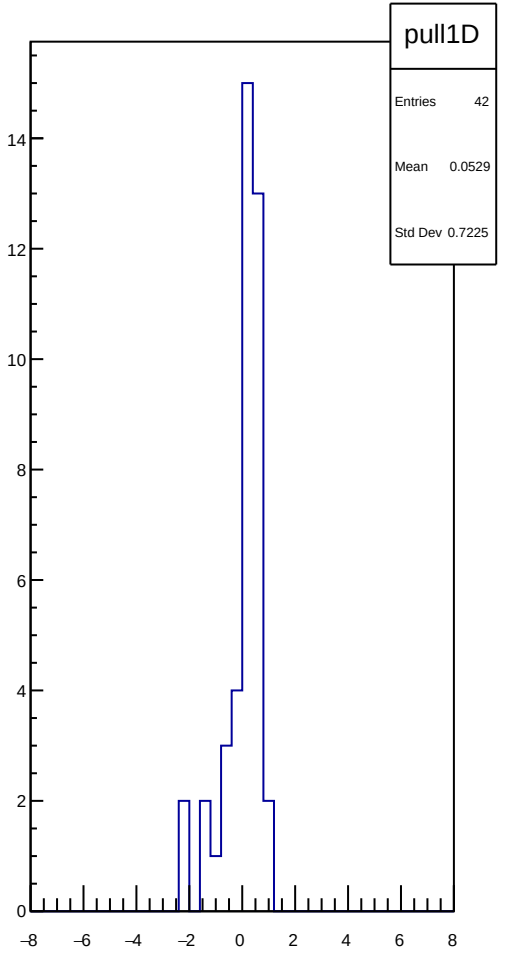

pull1D
Entries 42
Mean −0.1232
Std Dev 1.678

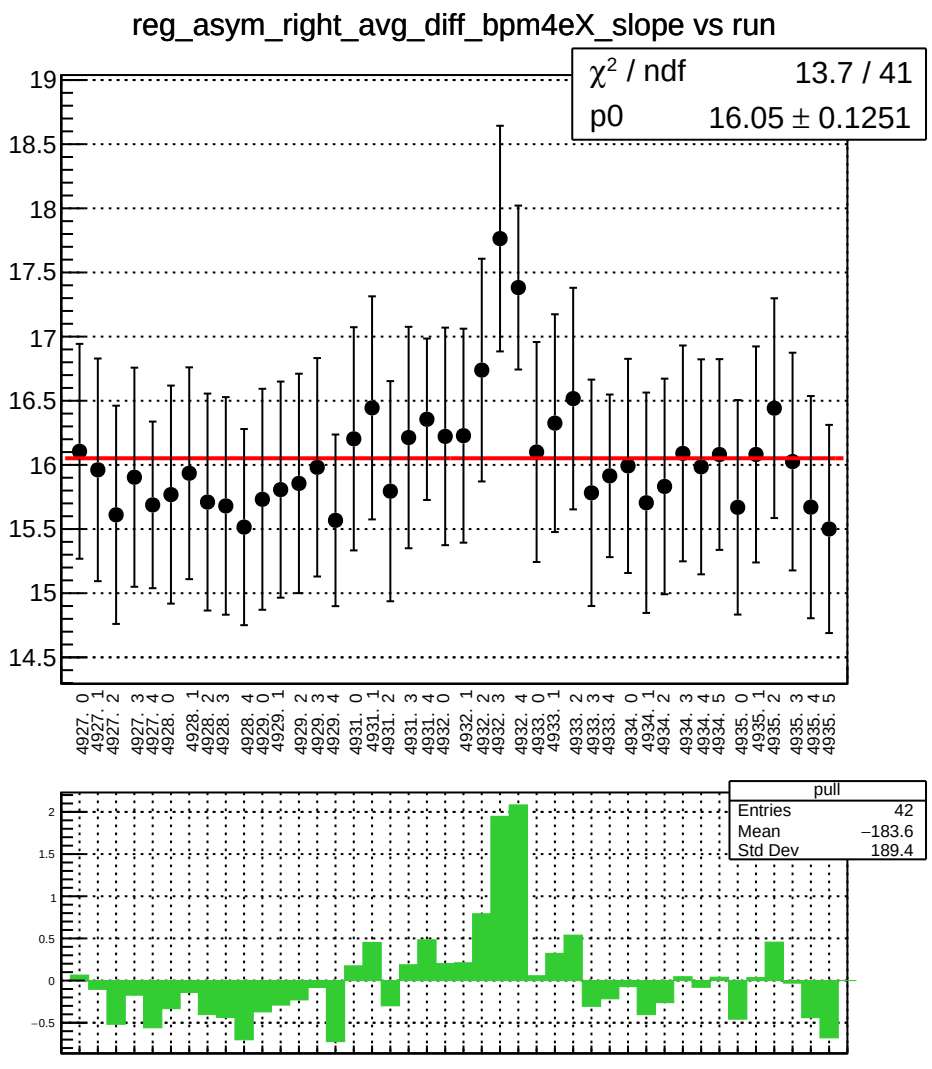

reg_asym_left_dd_diff_bpm11X_slope vs run
χ² / ndf 31.95 / 41
p0 −0.2624 ± 0.0148
pull
Entries 42
Mean −51.87
Std Dev 57.82
pull1D
Entries 42
Mean 0.01534
Std Dev 0.8721

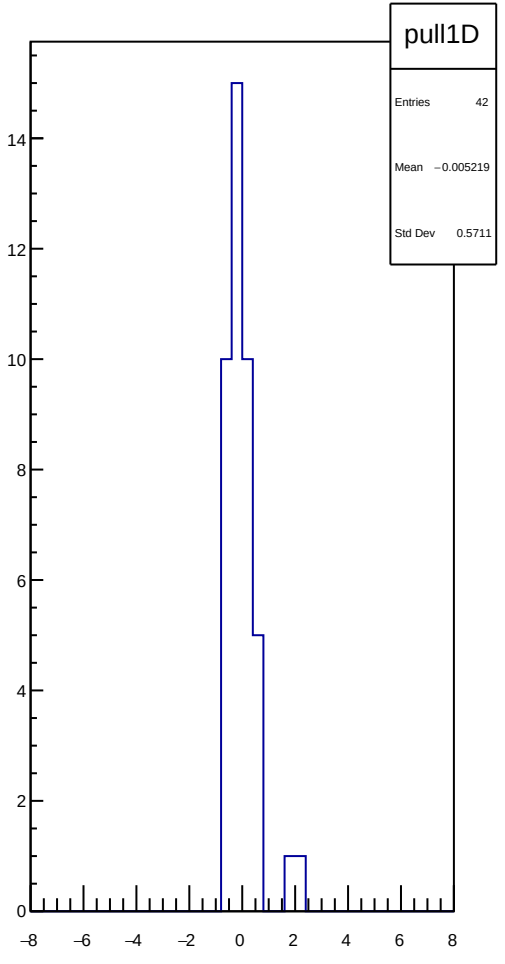

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 4.704 / 41
p0 −4.49 ± 0.5916
4
2
0
−2
−4
−6
−8
−10
−12
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 13.2
Std Dev 65.18
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

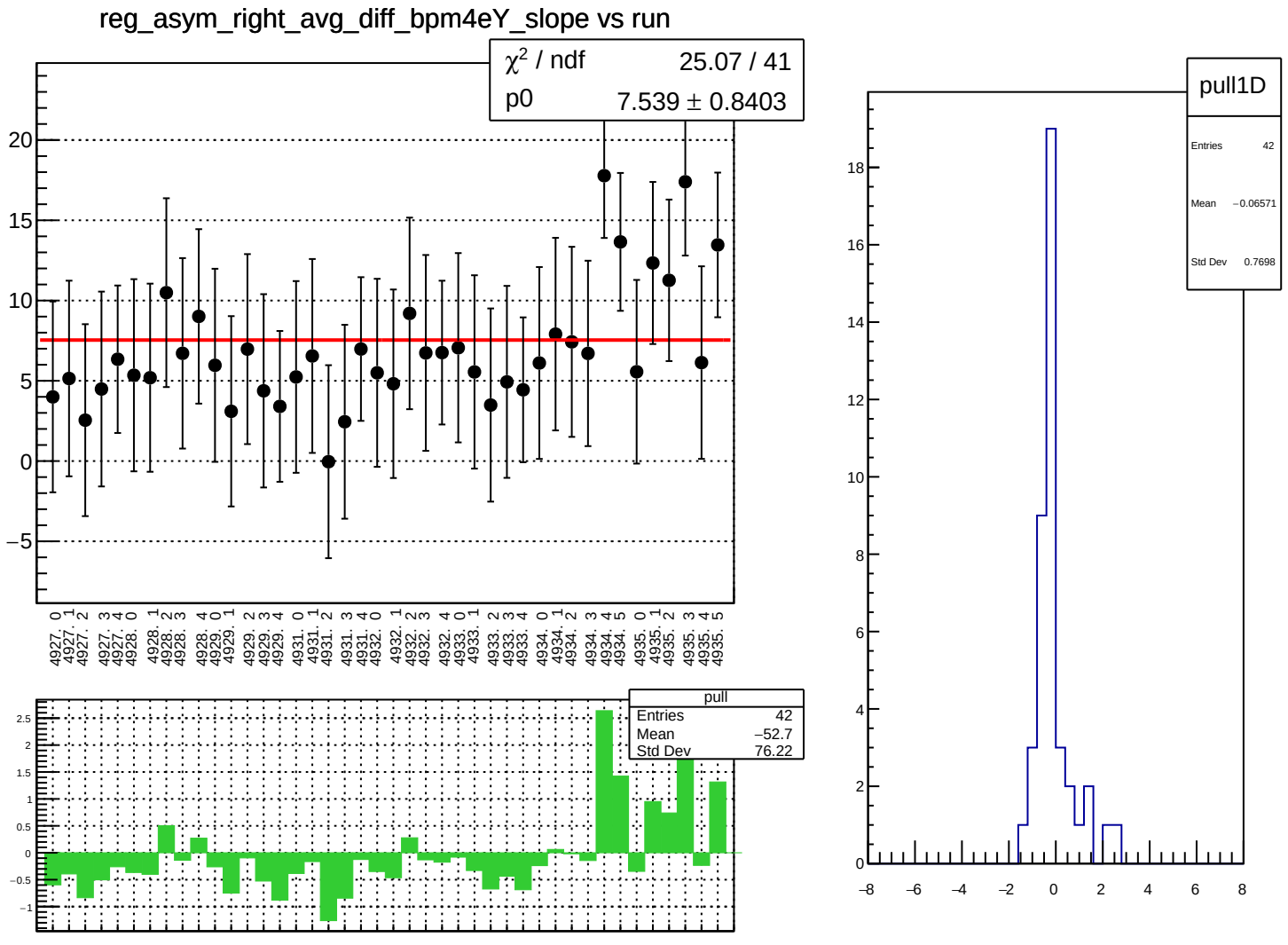

pull1D
Entries 42
Mean 0.003622
Std Dev 0.3346
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

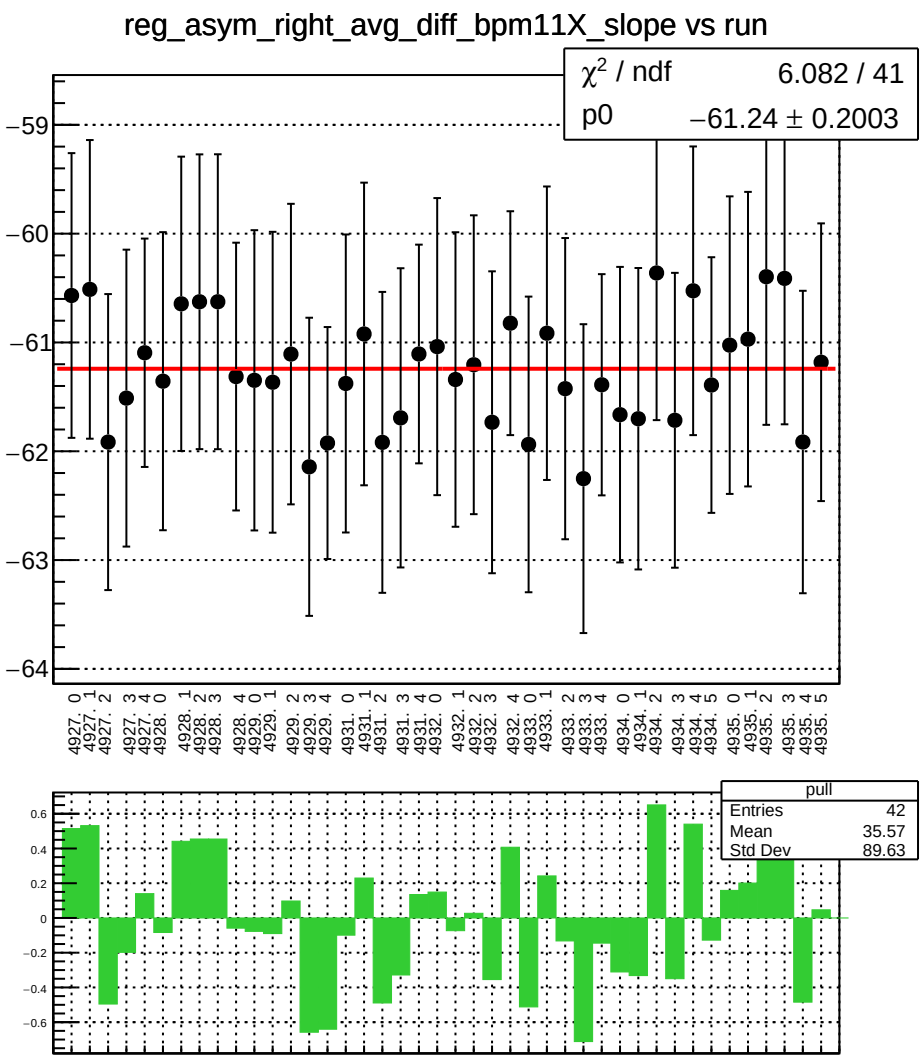

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.04 / 41
p0 −2.507 ± 0.7422
pull
Entries 42
Mean −56.68
Std Dev 80.74

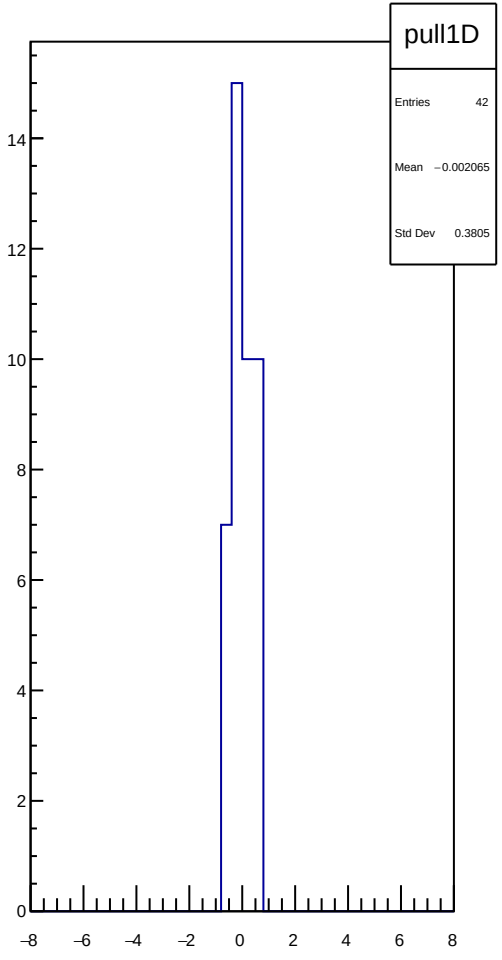

pull1D
Entries 42
Mean 0.0529
Std Dev 0.7225

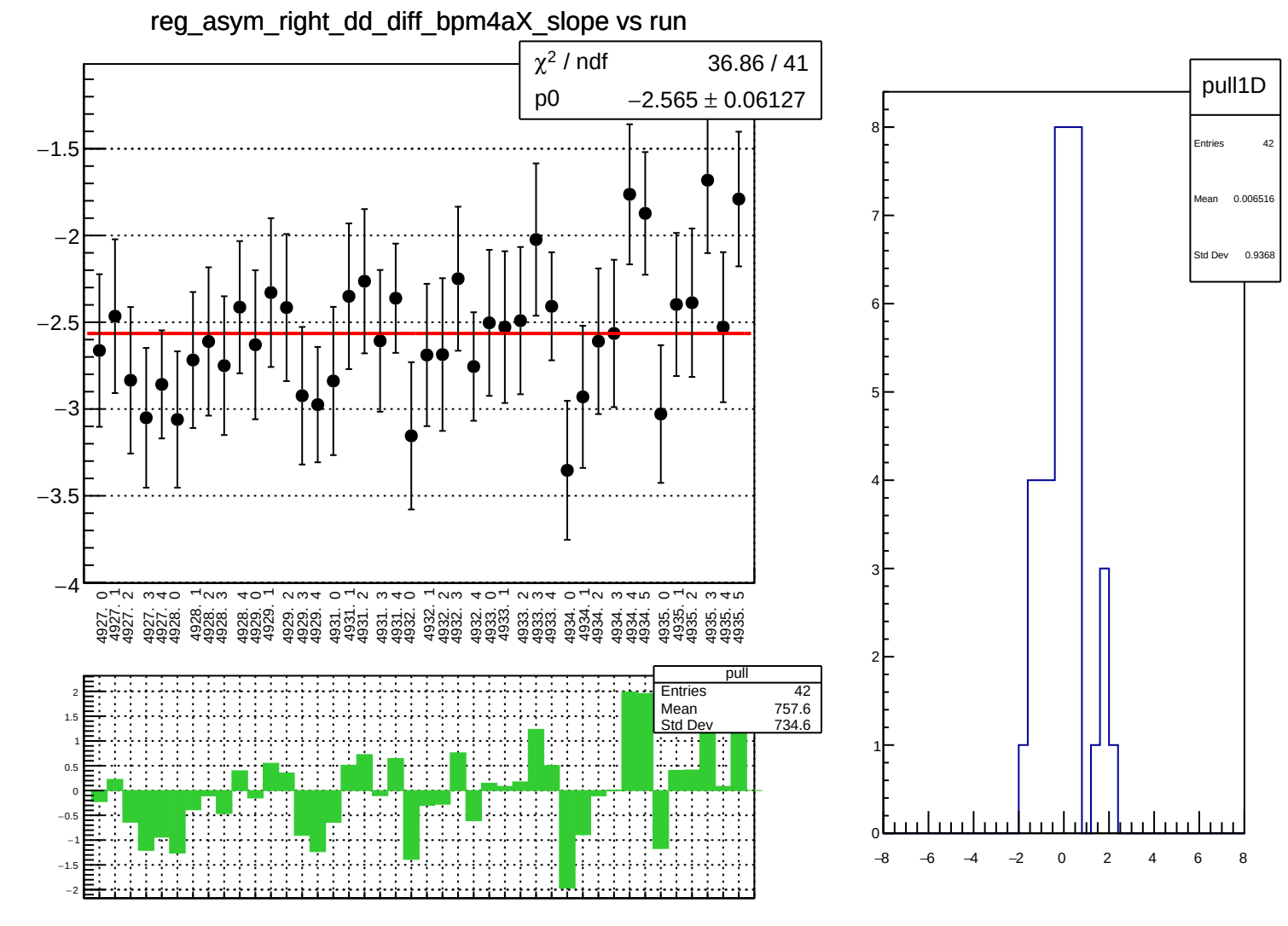

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.7 / 41
p0 16.05 ± 0.1251
pull
Entries 42
Mean −183.6
Std Dev 189.4

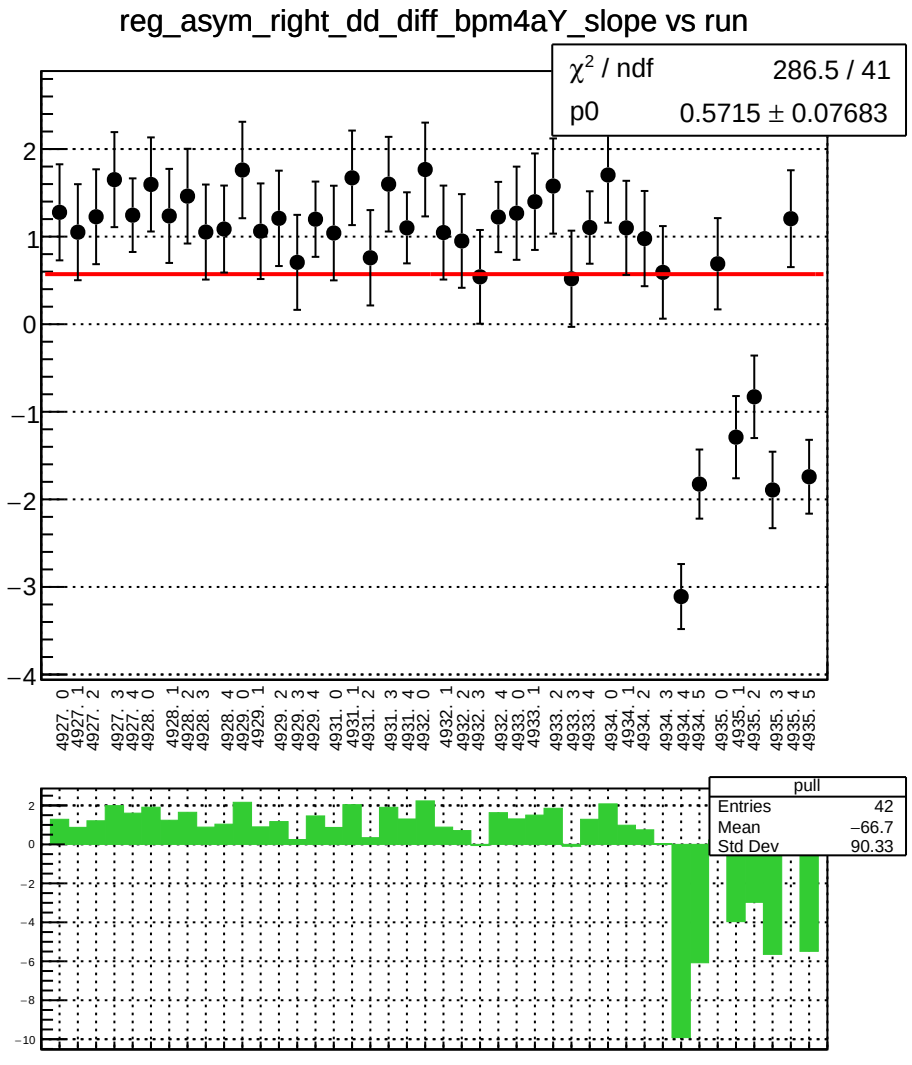

pull1D
Entries 42
Mean −0.005219
Std Dev 0.5711

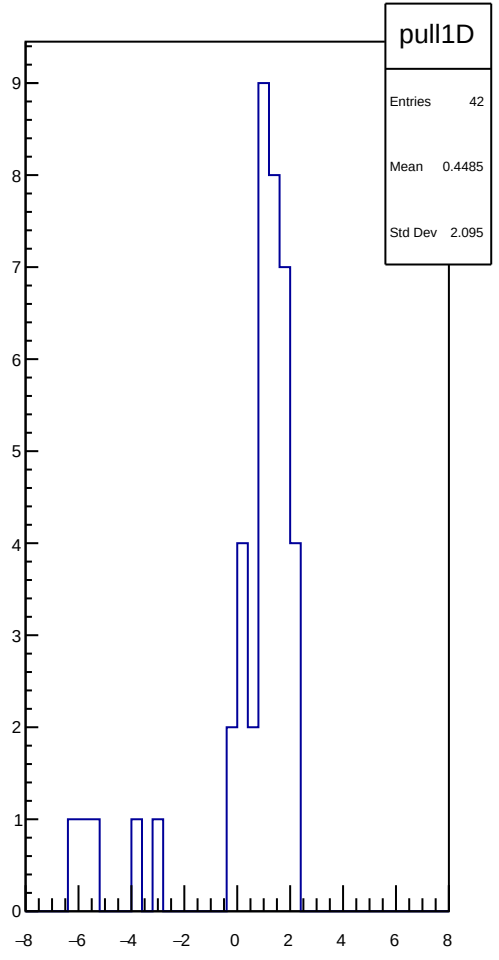

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.07 / 41
p0 7.539 ± 0.8403
pull
Entries 42
Mean −52.7
Std Dev 76.22
pull1D
Entries 42
Mean −0.06571
Std Dev 0.7698

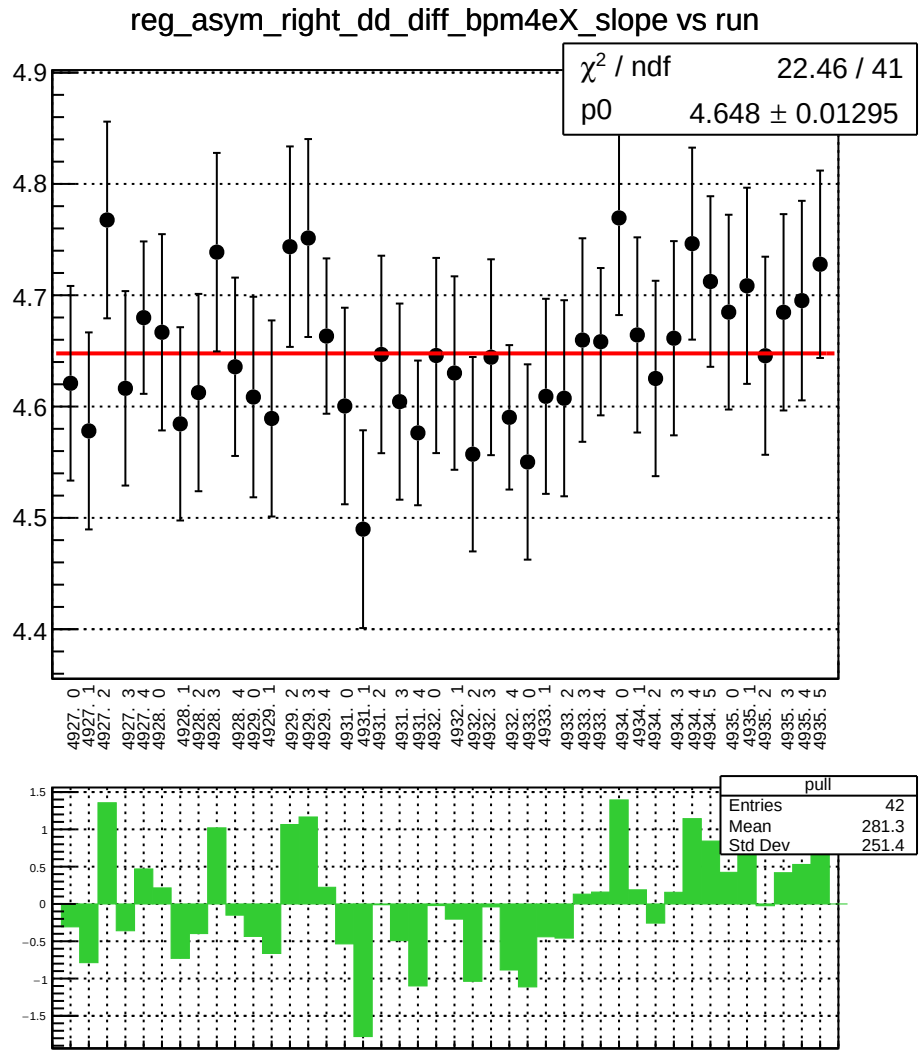

reg_asym_right_avg_diff_bpm11X_slope vs run
χ² / ndf 6.082 / 41
p0 −61.24 ± 0.2003
pull
Entries 42
Mean 35.57
Std Dev 89.63

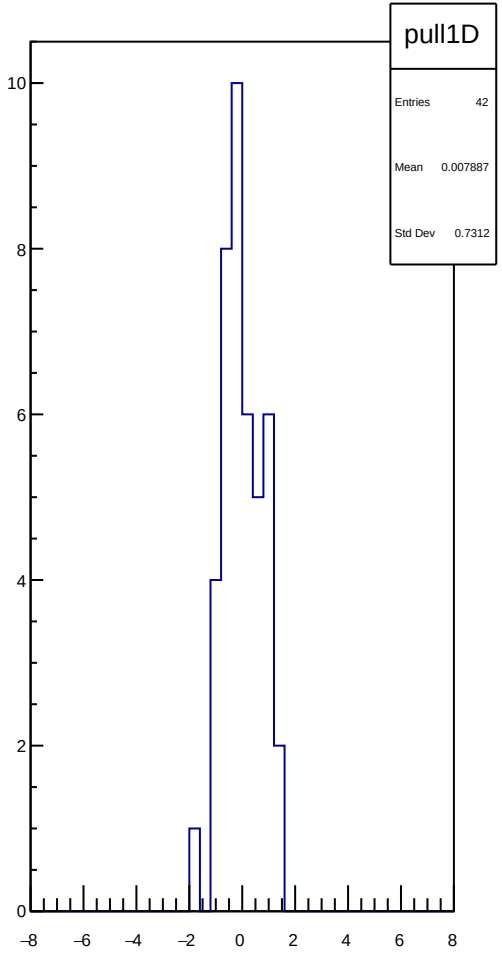

pull1D
Entries 42
Mean −0.002065
Std Dev 0.3805

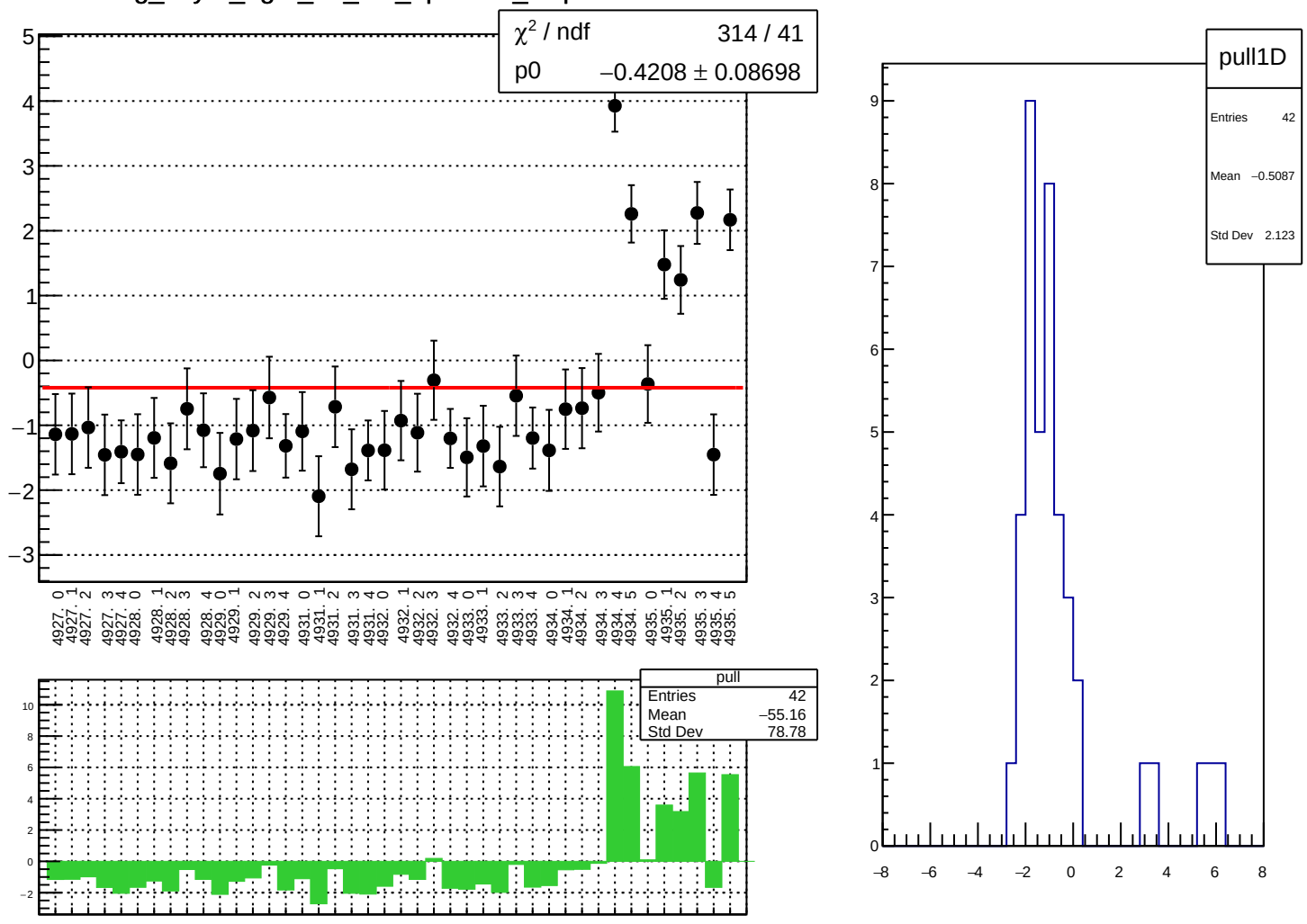

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 36.86 / 41
p0 −2.565 ± 0.06127
pull
Entries 42
Mean 757.6
Std Dev 734.6
pull1D
Entries 42
Mean 0.006516
Std Dev 0.9368

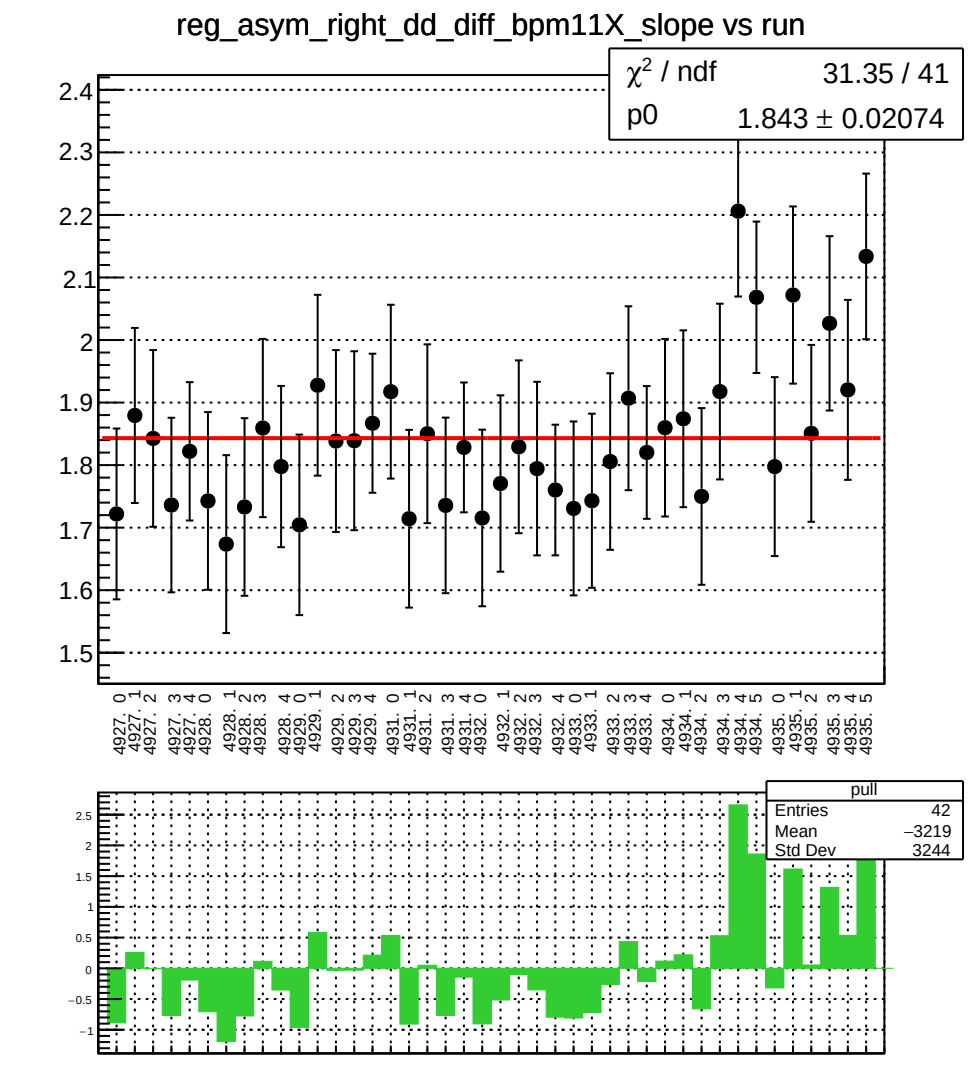

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 286.5 / 41
p0 0.5715 ± 0.07683
pull
Entries 42
Mean −66.7
Std Dev 90.33

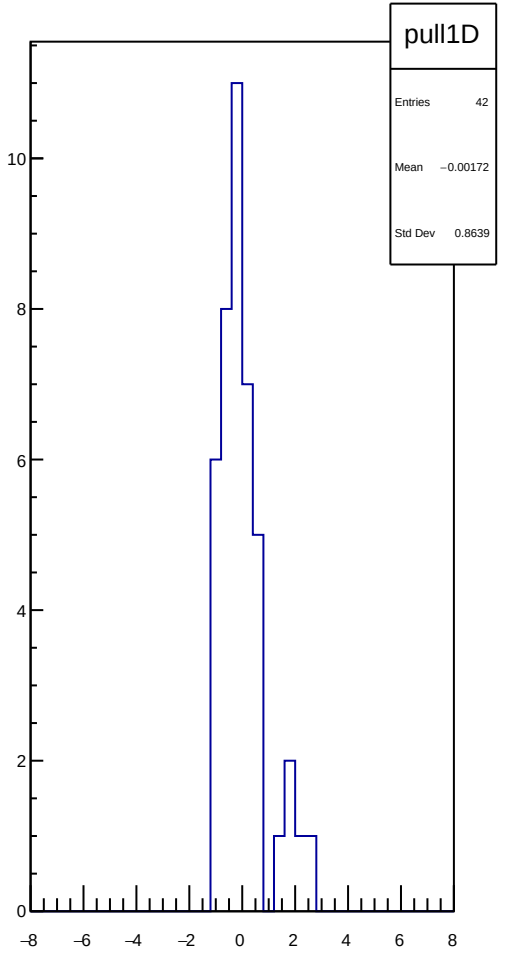

pull1D
Entries 42
Mean 0.4485
Std Dev 2.095

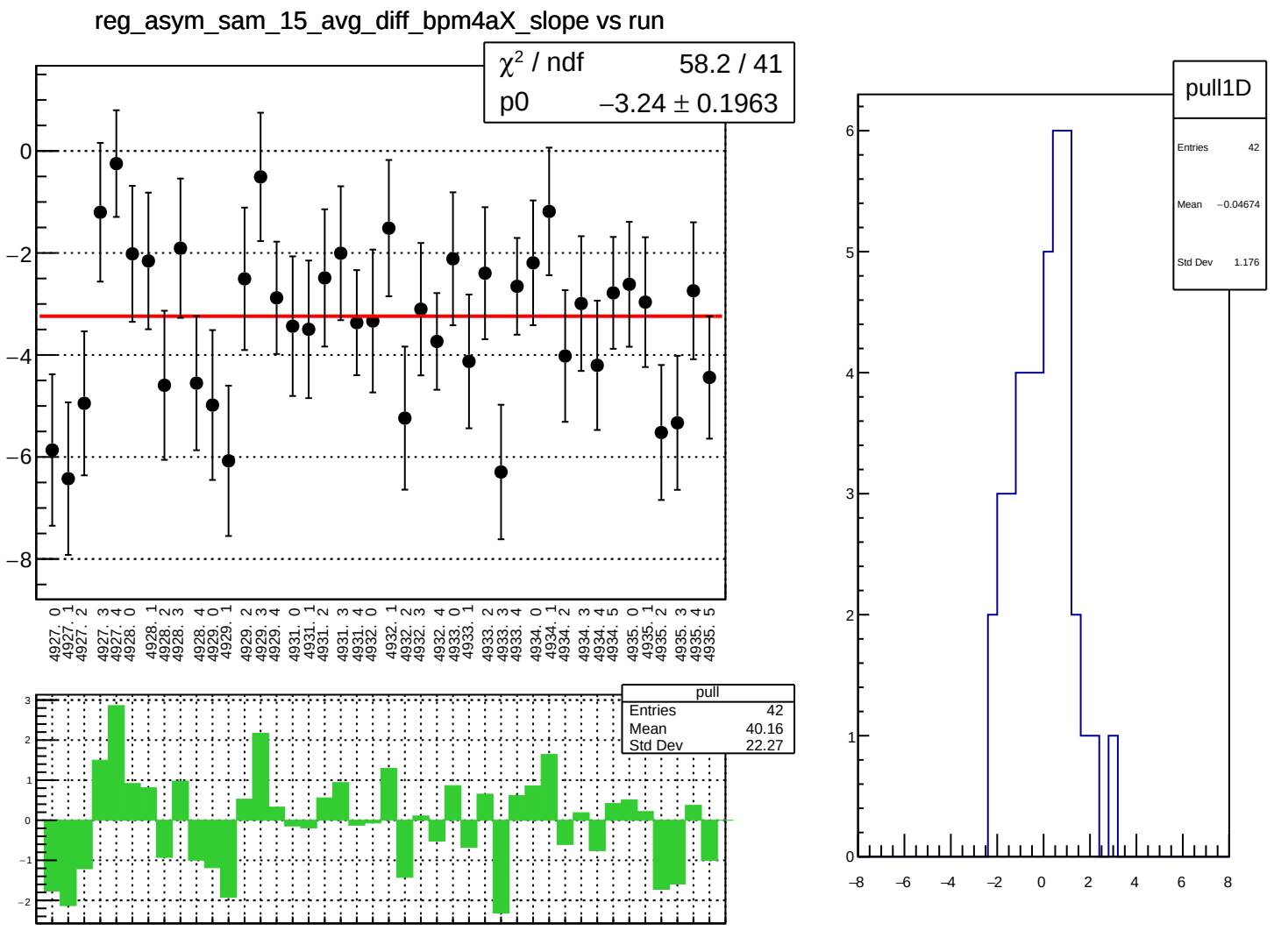

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.46 / 41
p0 4.648 ± 0.01295
4.9
4.8
4.7
4.6
4.5
4.4
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935.
pull
Entries 42
Mean 281.3
Std Dev 251.4
1.5
1
0.5
0
−0.5
−1
−1.5

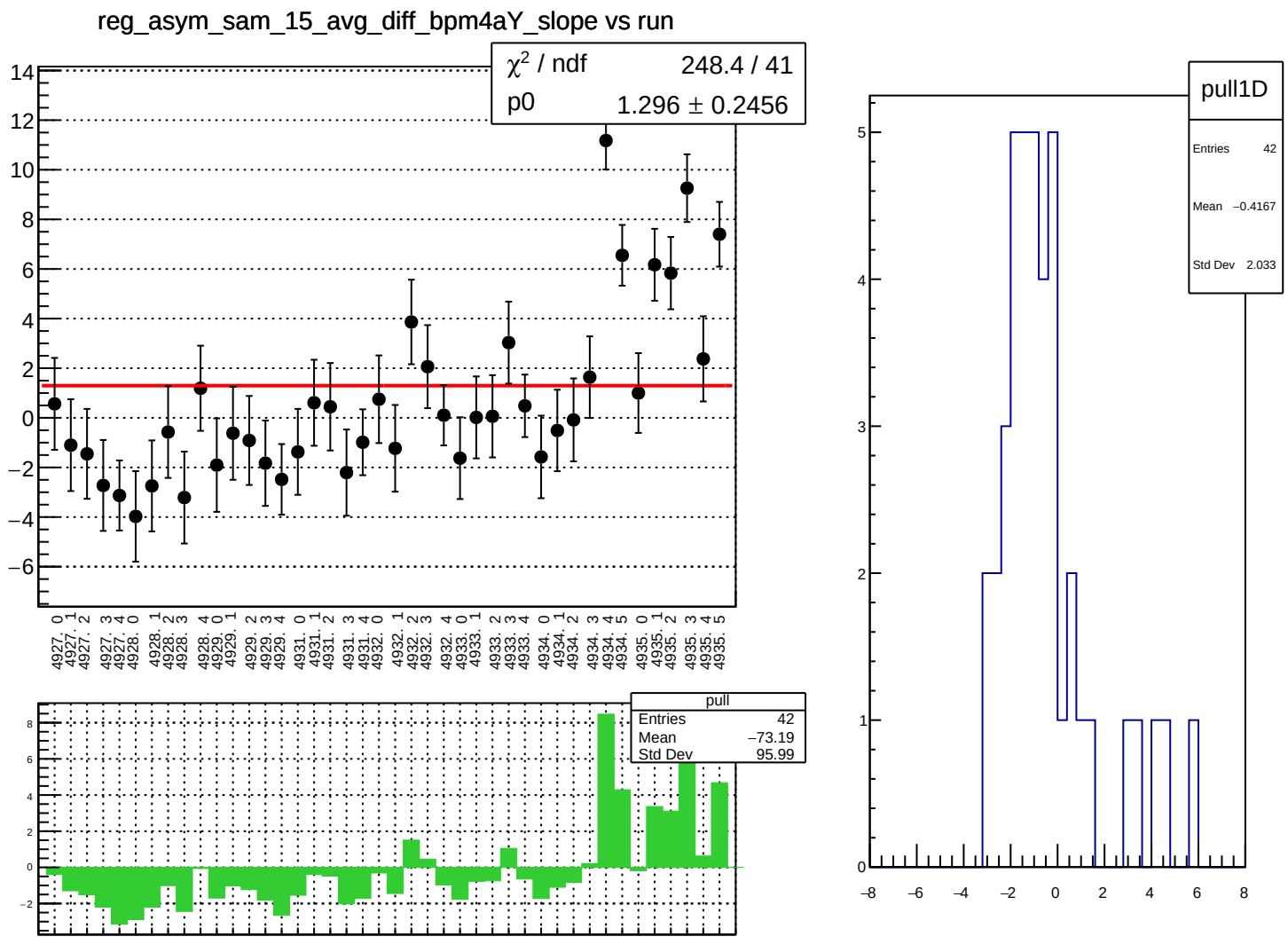

pull1D
Entries 42
Mean 0.007887
Std Dev 0.7312
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

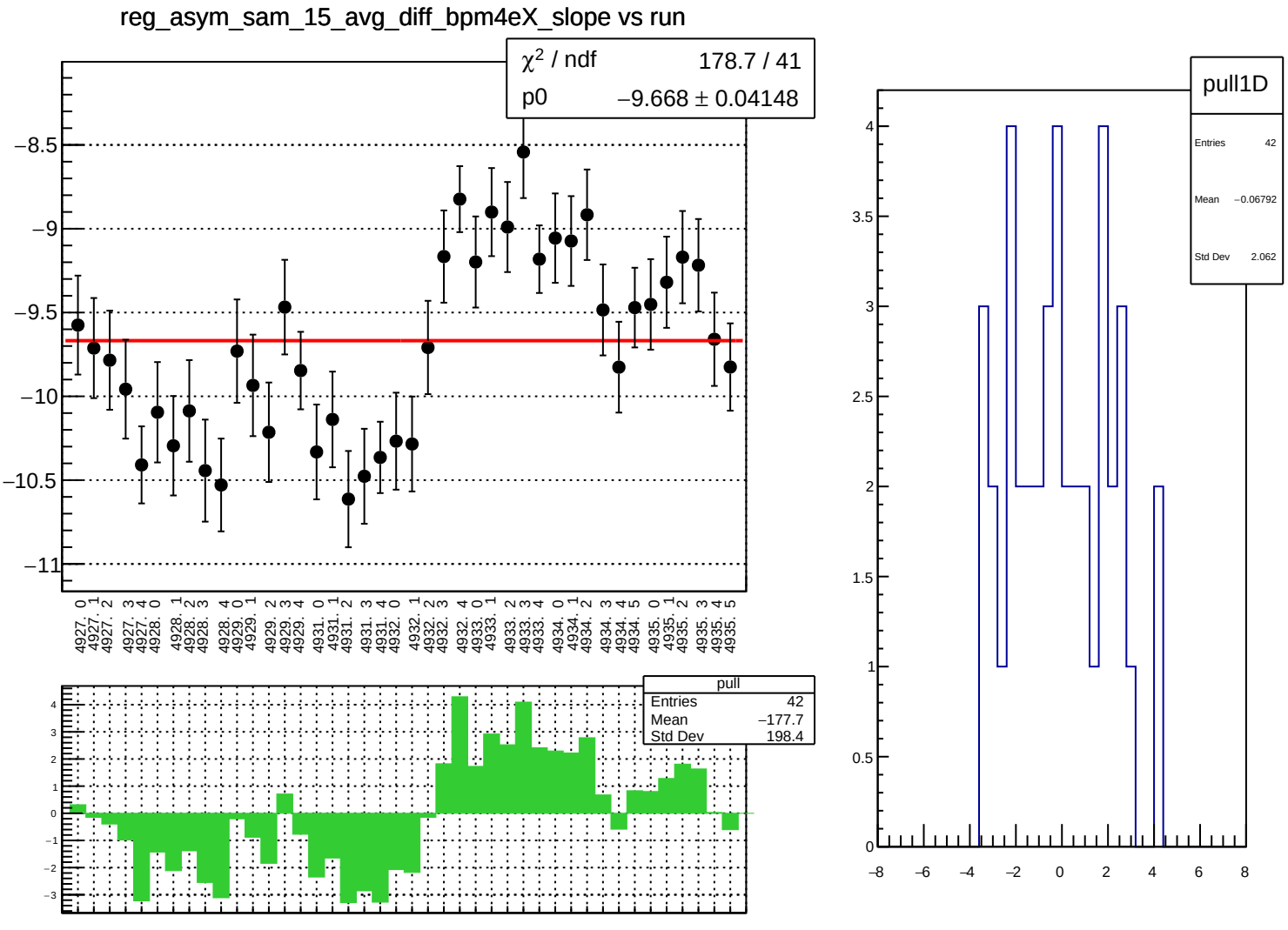

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 314 / 41
p0 −0.4208 ± 0.08698
pull
Entries 42
Mean −55.16
Std Dev 78.78
pull1D
Entries 42
Mean −0.5087
Std Dev 2.123

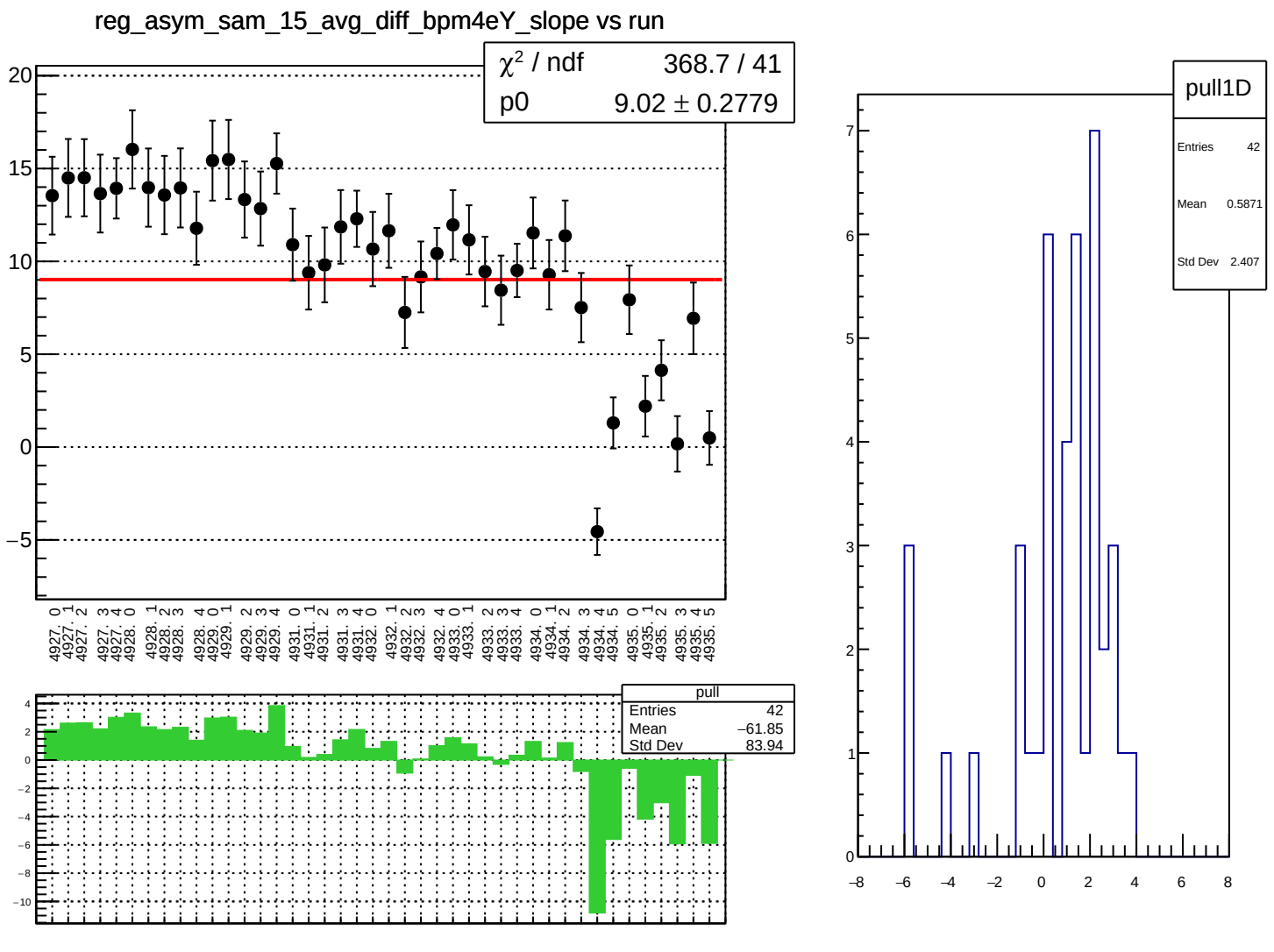

reg_asym_right_dd_diff_bpm11X_slope vs run
χ² / ndf 31.35 / 41
p0 1.843 ± 0.02074
pull
Entries 42
Mean −3219
Std Dev 3244

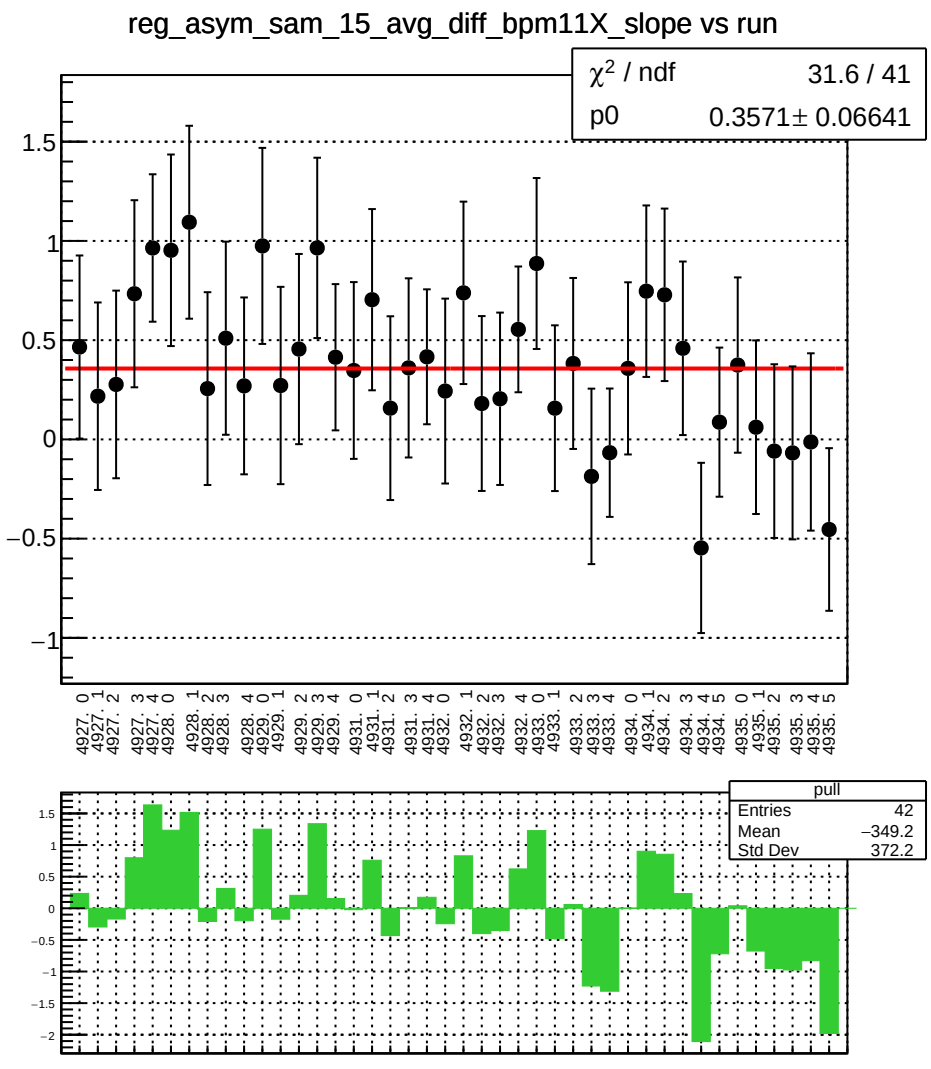

pull1D
Entries 42
Mean −0.00172
Std Dev 0.8639

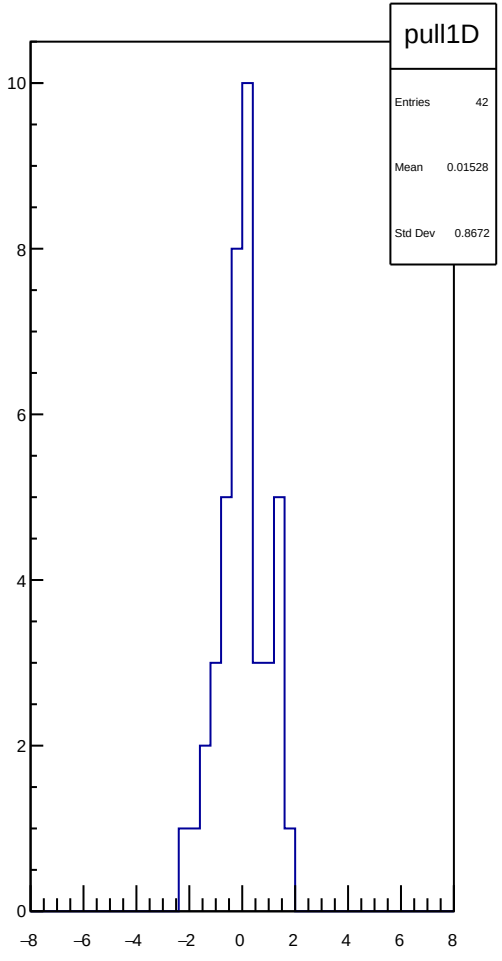

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 58.2 / 41
p0 −3.24 ± 0.1963
pull
Entries 42
Mean 40.16
Std Dev 22.27
pull1D
Entries 42
Mean −0.04674
Std Dev 1.176

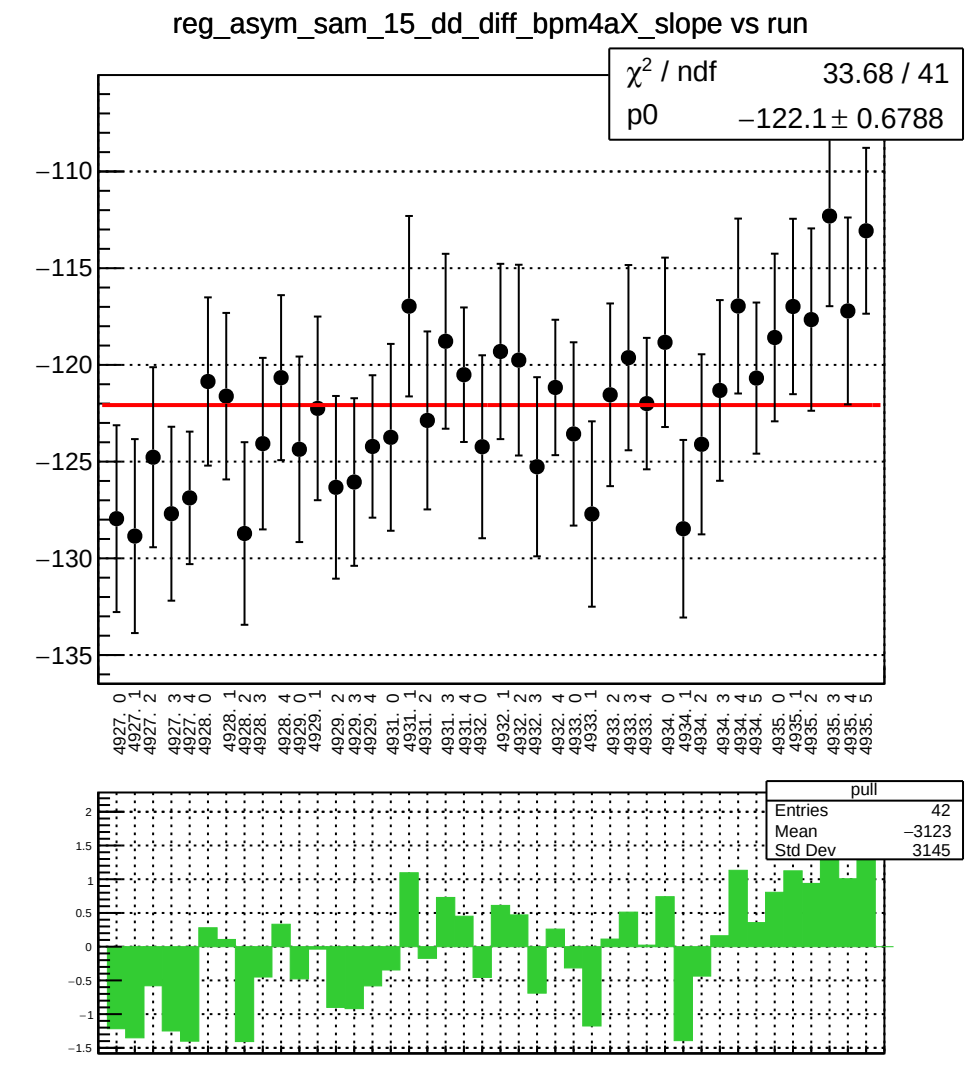

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 248.4 / 41
p0 1.296 ± 0.2456
pull
Entries 42
Mean −73.19
Std Dev 95.99
pull1D
Entries 42
Mean −0.4167
Std Dev 2.033

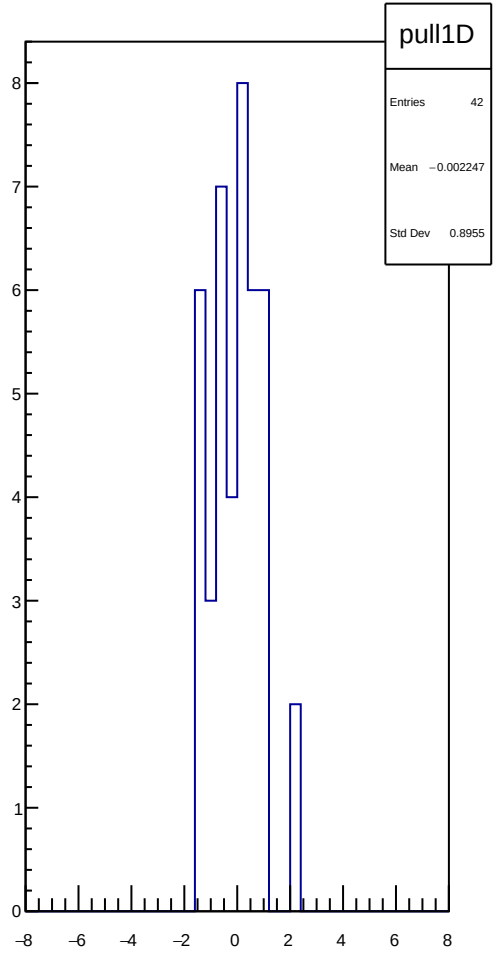

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 178.7 / 41
p0 −9.668 ± 0.04148
pull
Entries 42
Mean −177.7
Std Dev 198.4
pull1D
Entries 42
Mean −0.06792
Std Dev 2.062

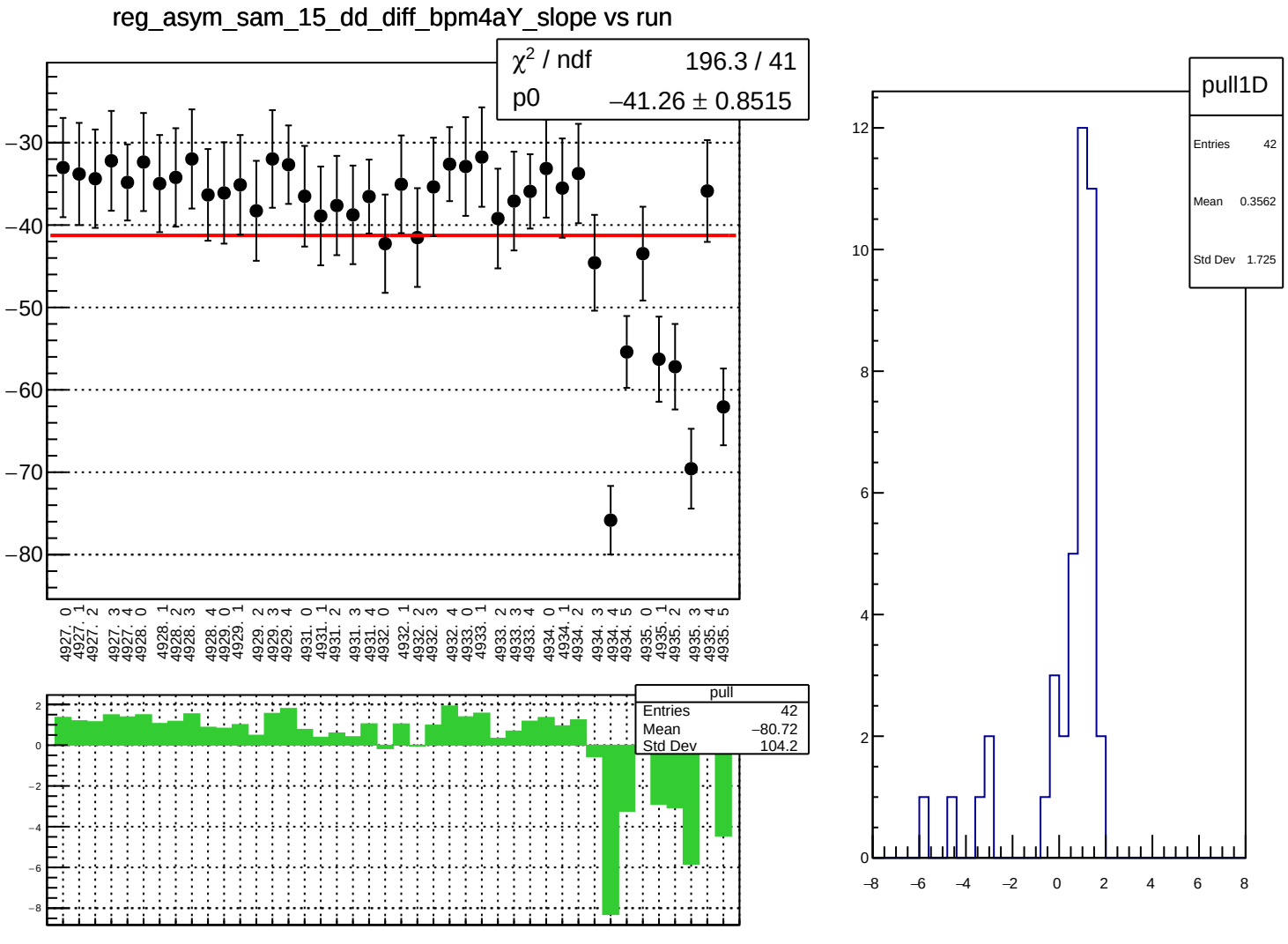

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 368.7 / 41
p0 9.02 ± 0.2779
pull
Entries 42
Mean −61.85
Std Dev 83.94
pull1D
Entries 42
Mean 0.5871
Std Dev 2.407

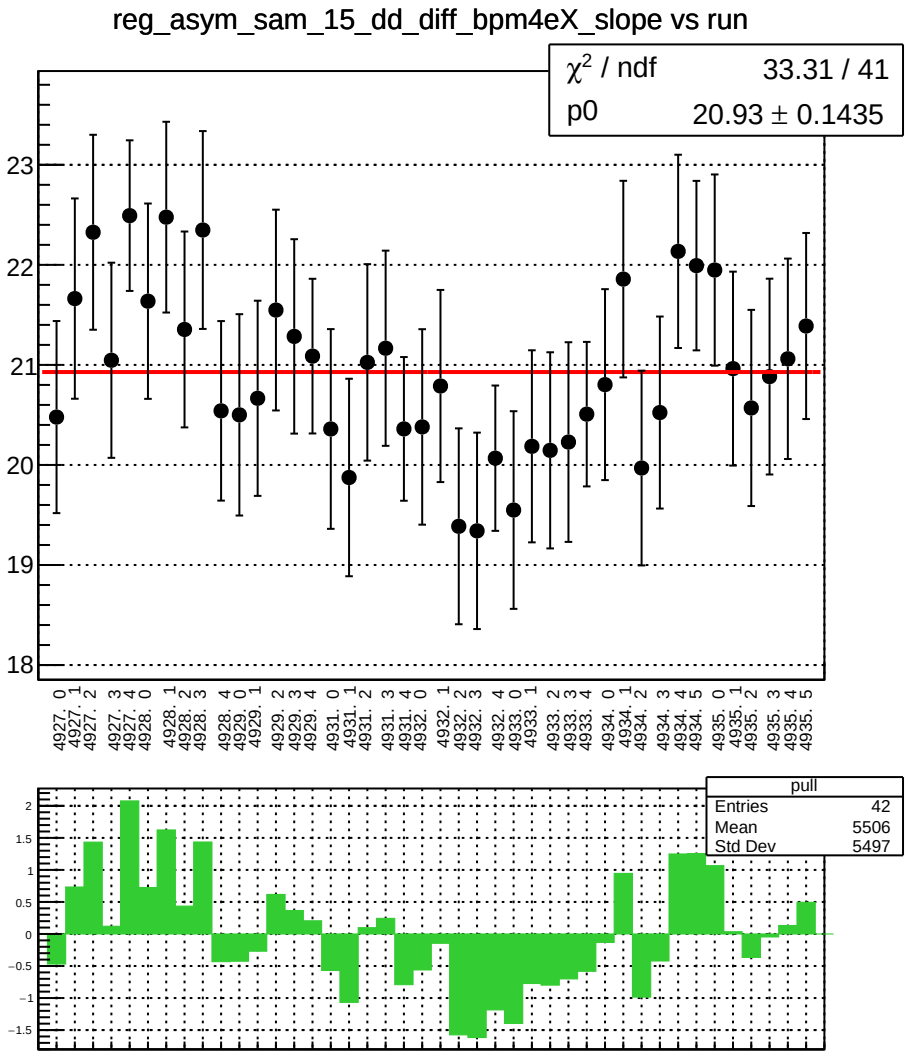

reg_asym_sam_15_avg_diff_bpm11X_slope vs run
χ² / ndf 31.6 / 41
p0 0.3571± 0.06641
pull
Entries 42
Mean −349.2
Std Dev 372.2

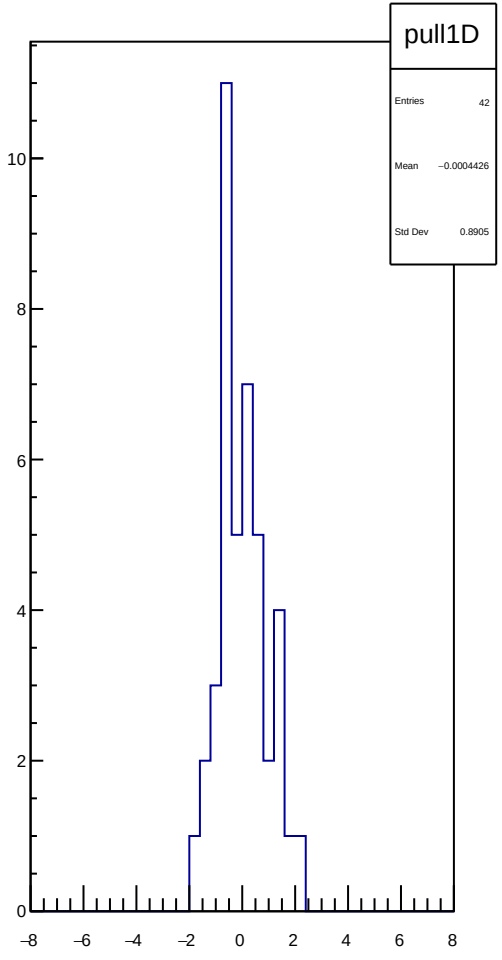

pull1D
Entries 42
Mean 0.01528
Std Dev 0.8672

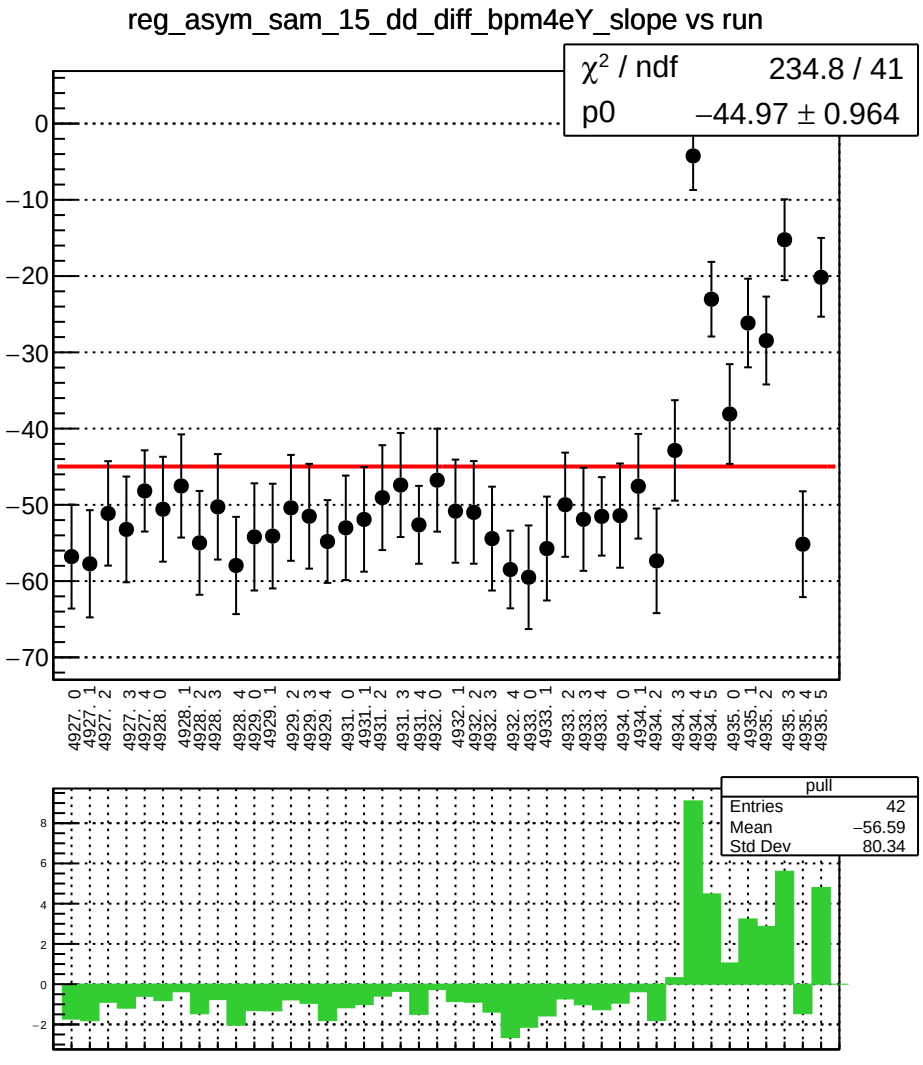

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 33.68 / 41
p0 −122.1 ± 0.6788
pull
Entries 42
Mean −3123
Std Dev 3145

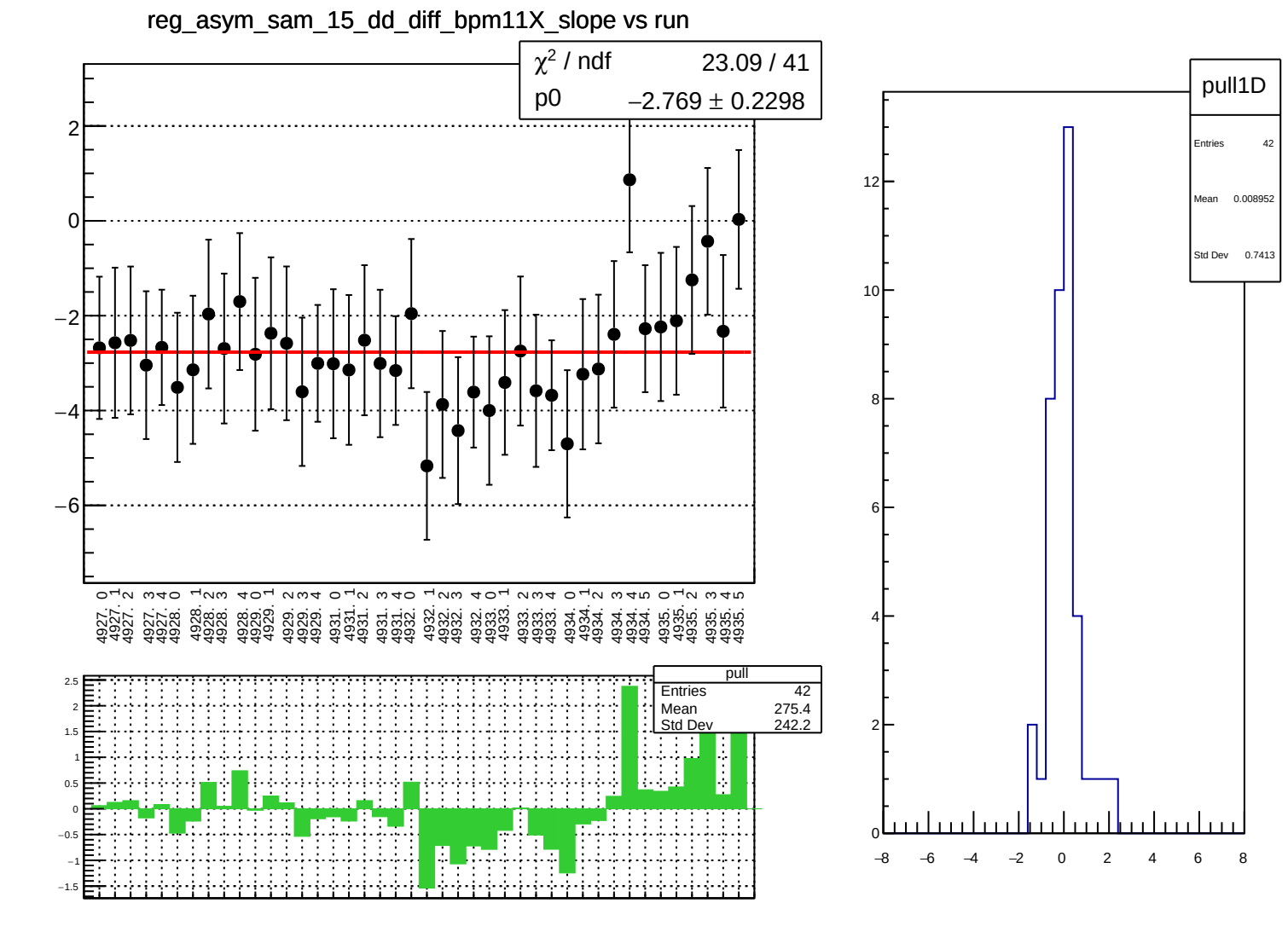

pull1D
Entries 42
Mean −0.002247
Std Dev 0.8955

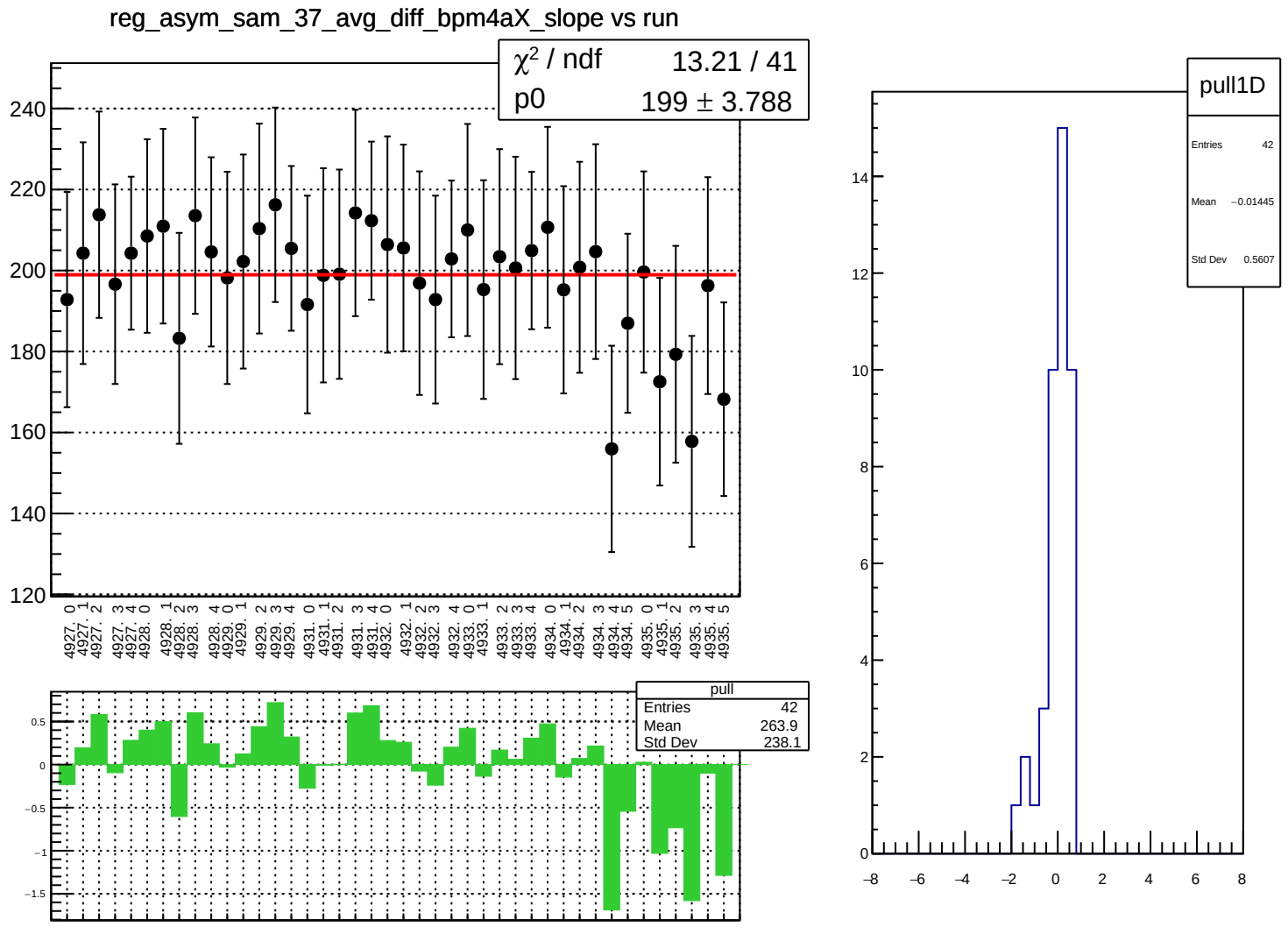

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 196.3 / 41
p0 −41.26 ± 0.8515
−30
−40
−50
−60
−70
−80
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −80.72
Std Dev 104.2
2
0
−2
−4
−6
−8
pull1D
Entries 42
Mean 0.3562
Std Dev 1.725
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

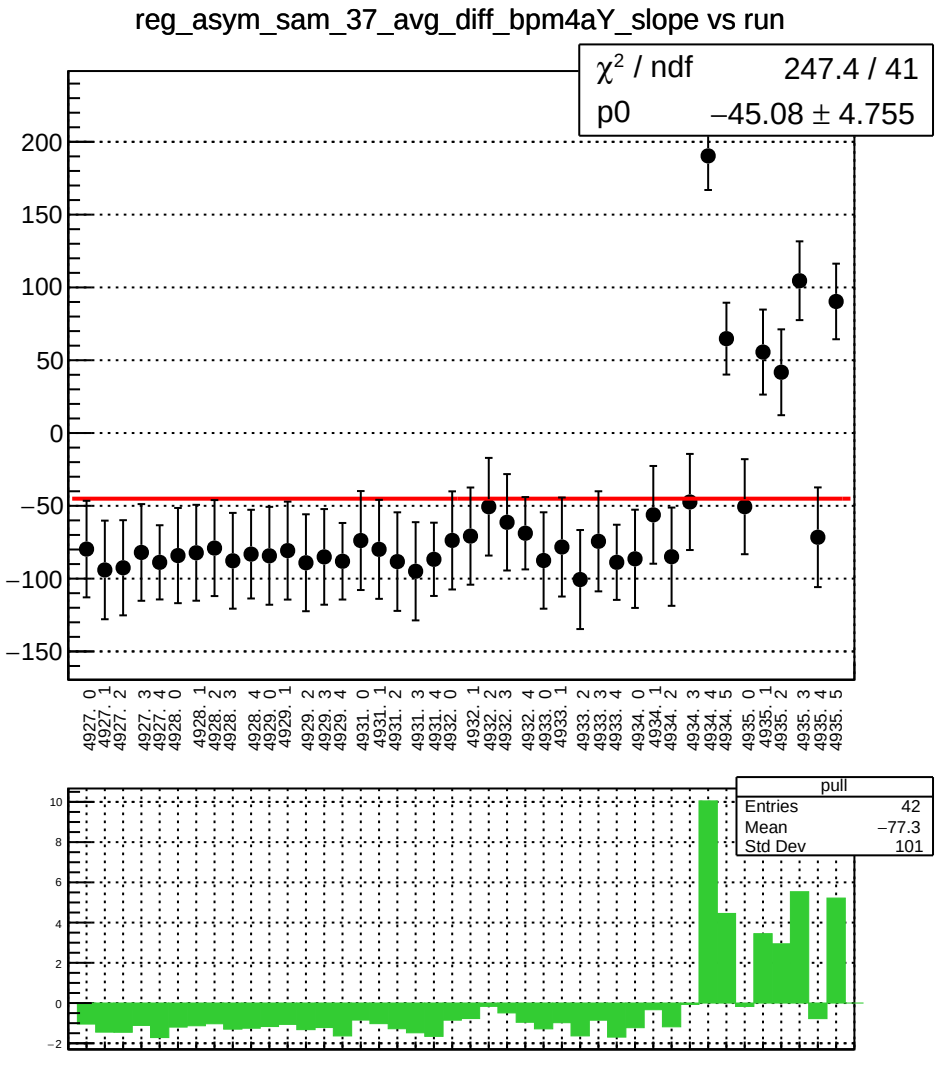

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 33.31 / 41
p0 20.93 ± 0.1435
pull
Entries 42
Mean 5506
Std Dev 5497

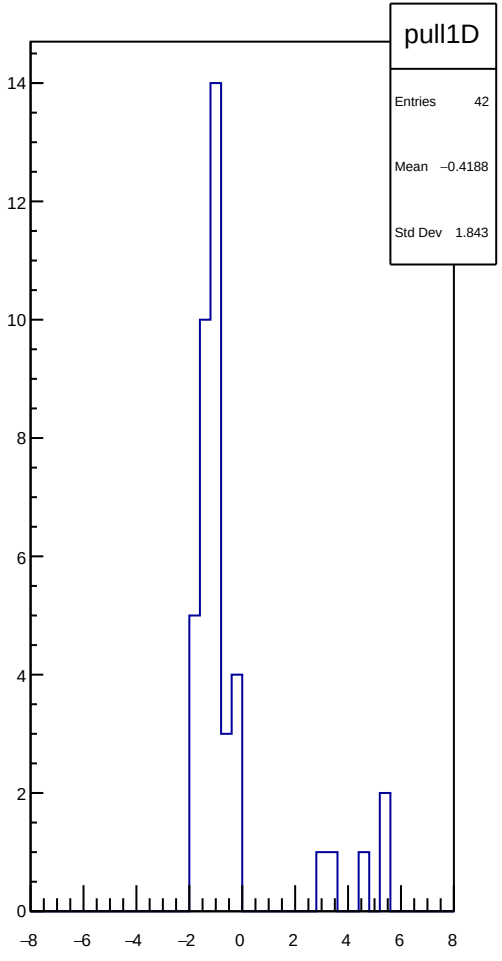

pull1D
Entries 42
Mean −0.0004426
Std Dev 0.8905

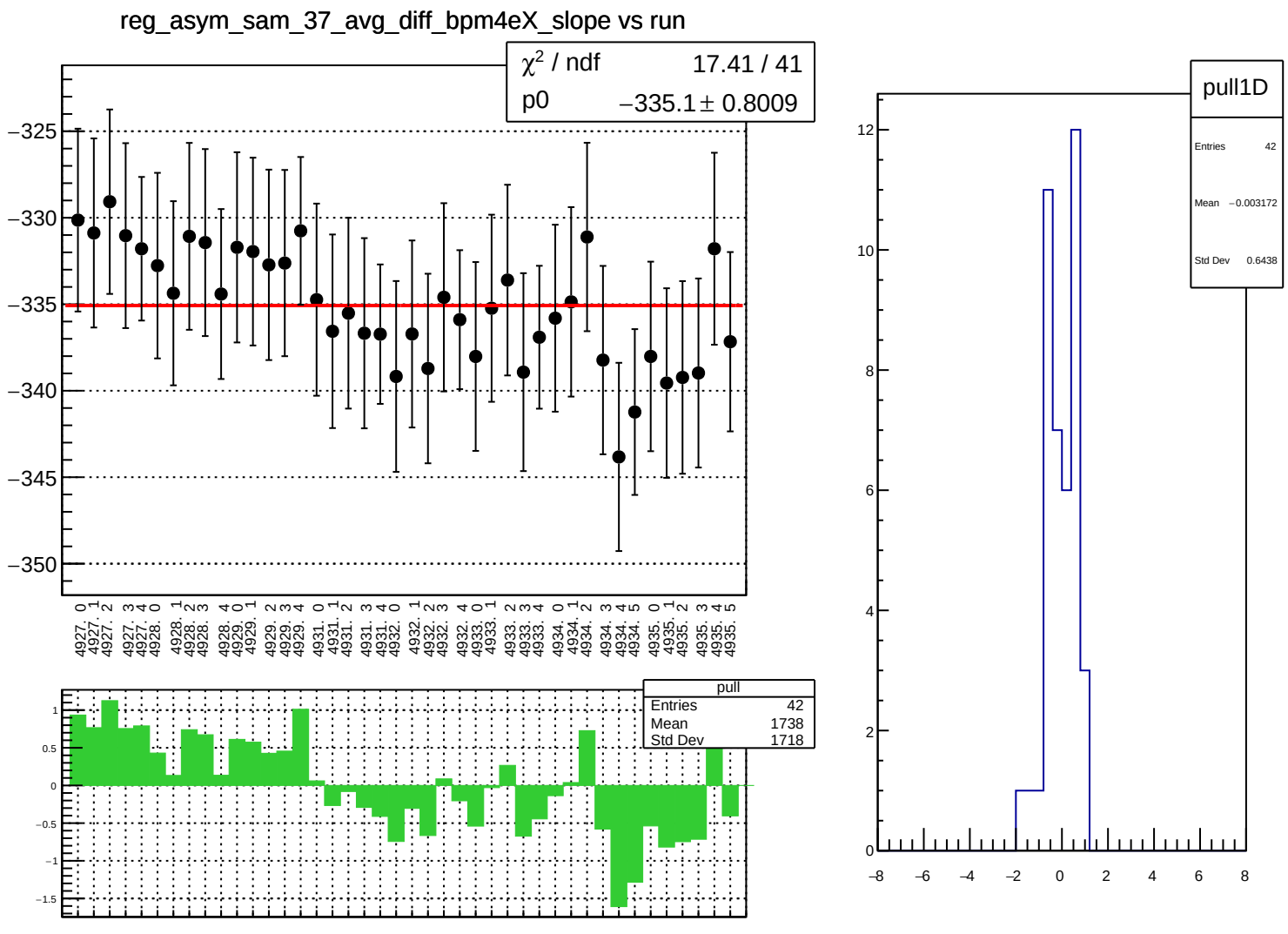

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 234.8 / 41
p0 −44.97 ± 0.964
pull
Entries 42
Mean −56.59
Std Dev 80.34
pull1D
Entries 42
Mean −0.4275
Std Dev 1.877

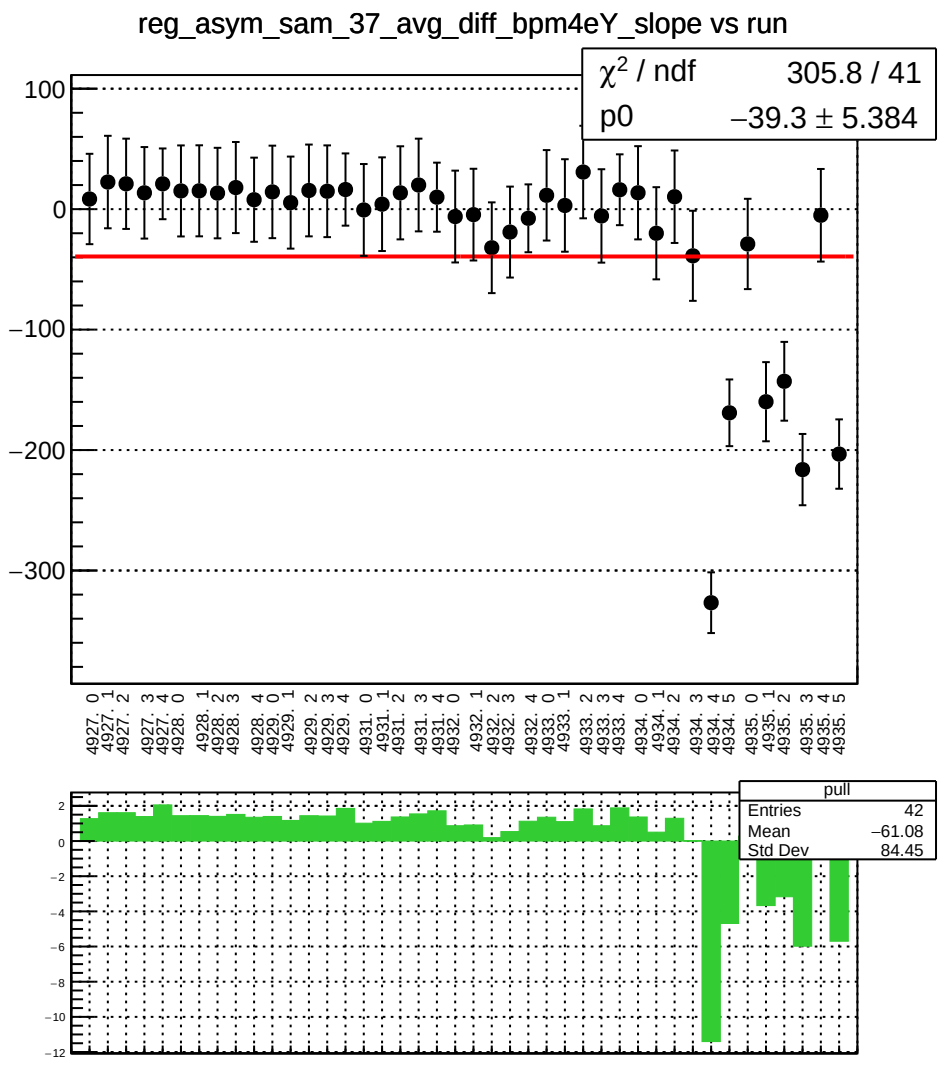

reg_asym_sam_15_dd_diff_bpm11X_slope vs run
χ² / ndf 23.09 / 41
p0 −2.769 ± 0.2298
pull
Entries 42
Mean 275.4
Std Dev 242.2
pull1D
Entries 42
Mean 0.008952
Std Dev 0.7413

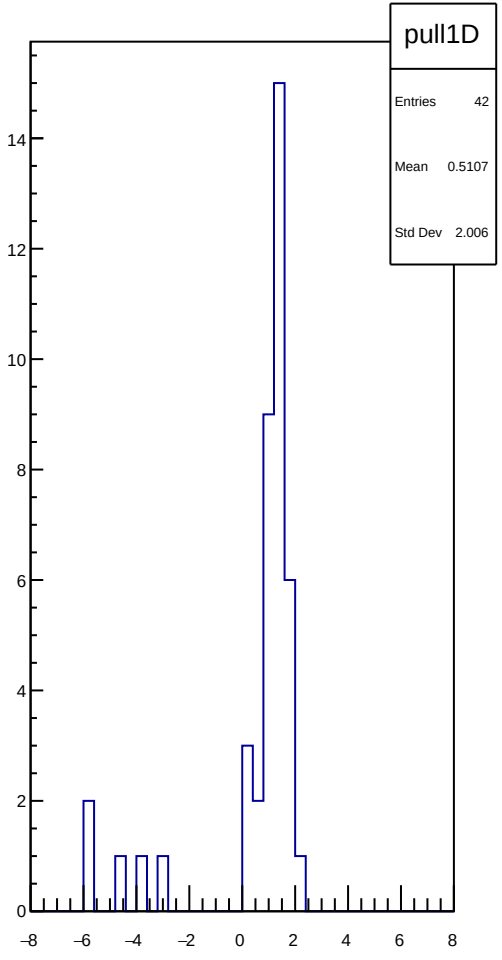

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 13.21 / 41
p0 199 ± 3.788
240
220
200
180
160
140
120
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 263.9
Std Dev 238.1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean −0.01445
Std Dev 0.5607
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

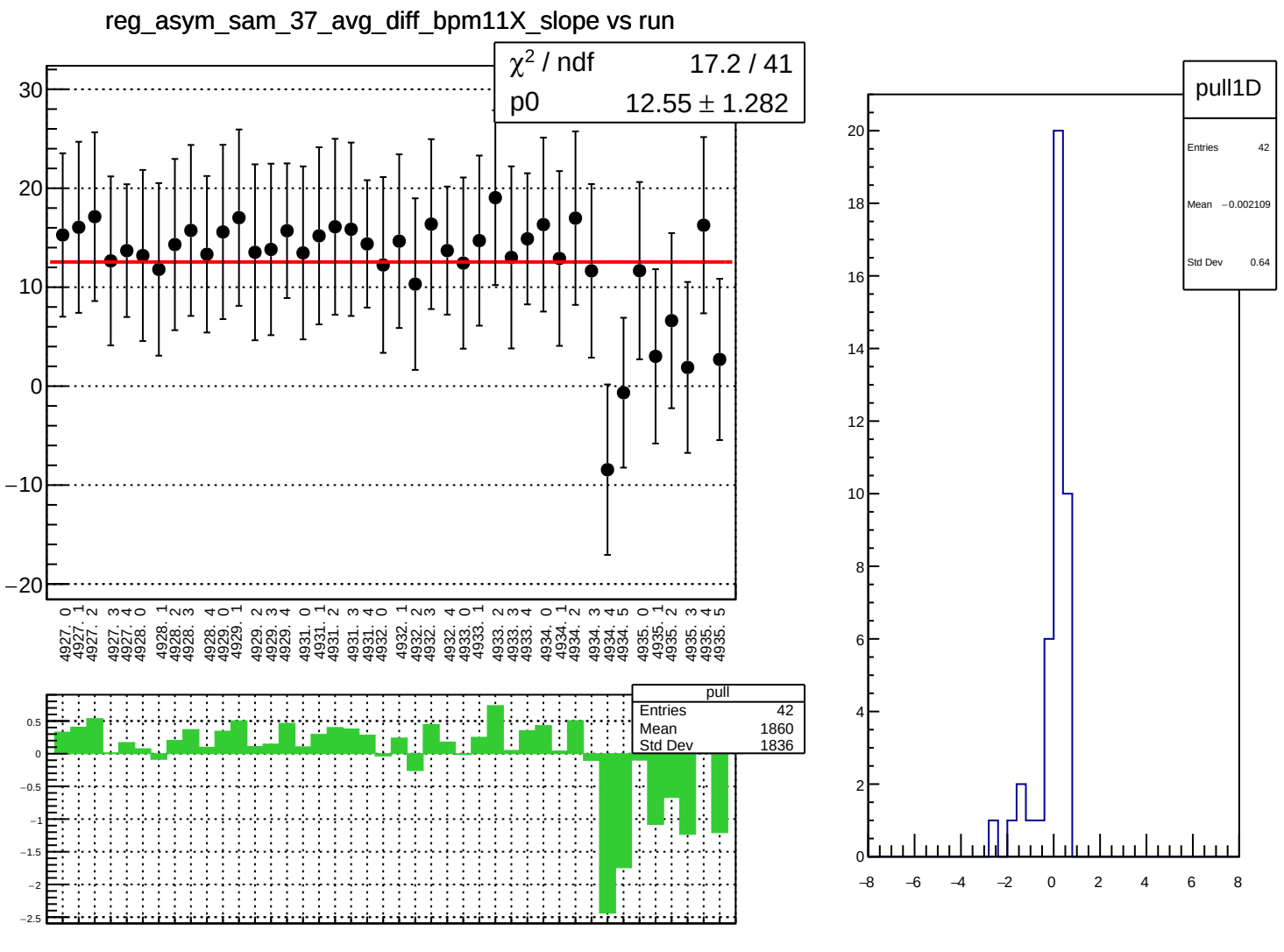

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 247.4 / 41
p0 −45.08 ± 4.755
pull
Entries 42
Mean −77.3
Std Dev 101

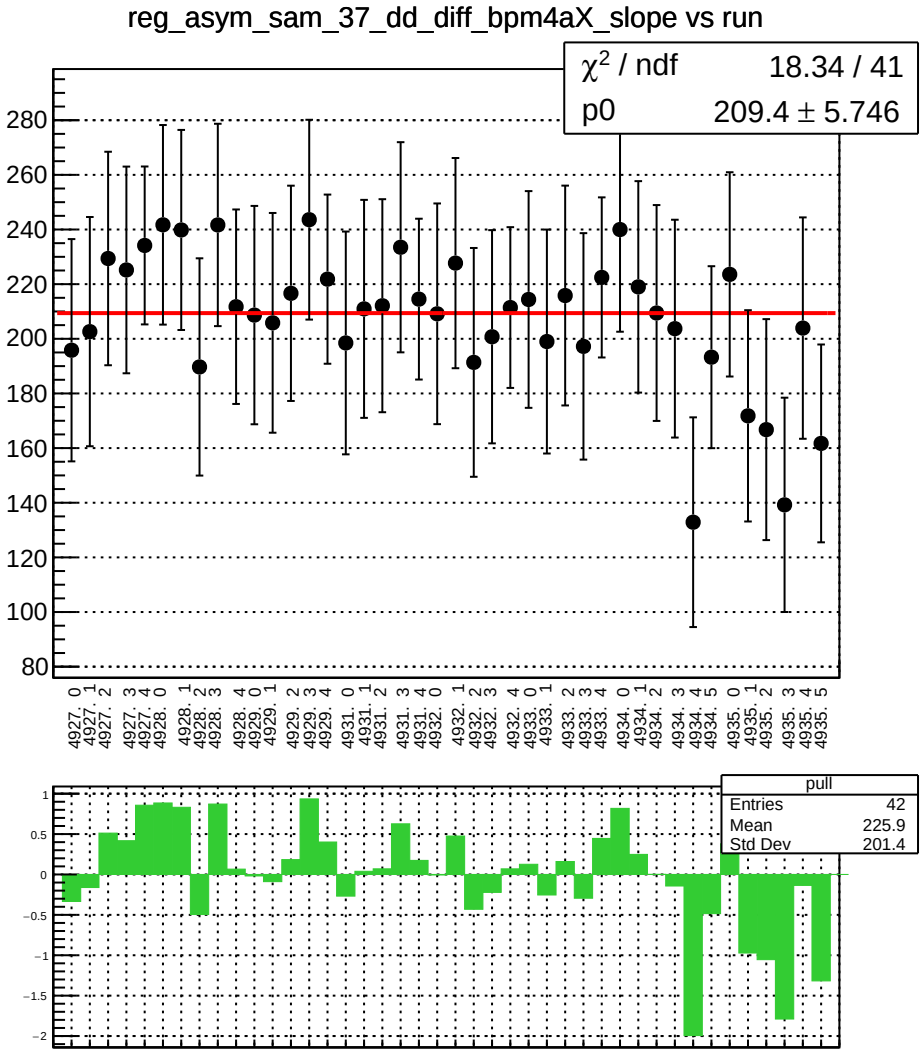

pull1D
Entries 42
Mean −0.4188
Std Dev 1.843

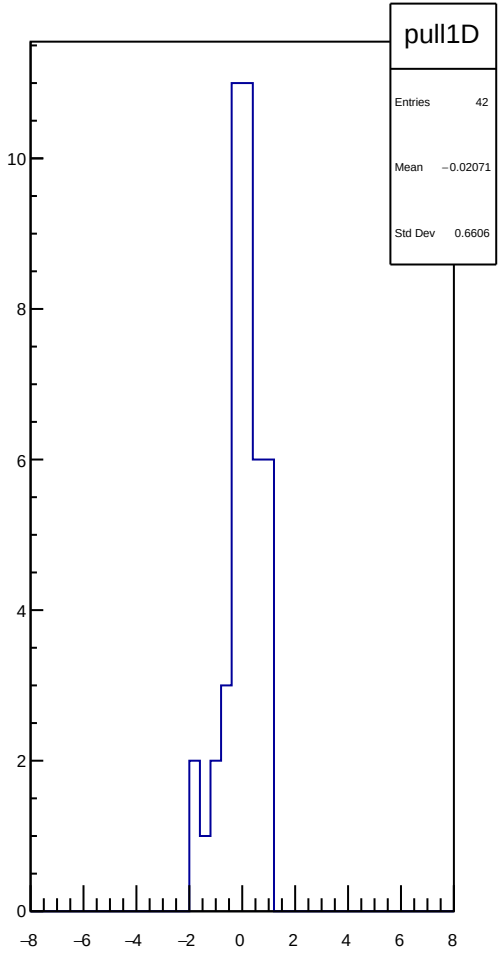

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.41 / 41
p0 −335.1 ± 0.8009
−325
−330
−335
−340
−345
−350
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 1738
Std Dev 1718
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean −0.003172
Std Dev 0.6438
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

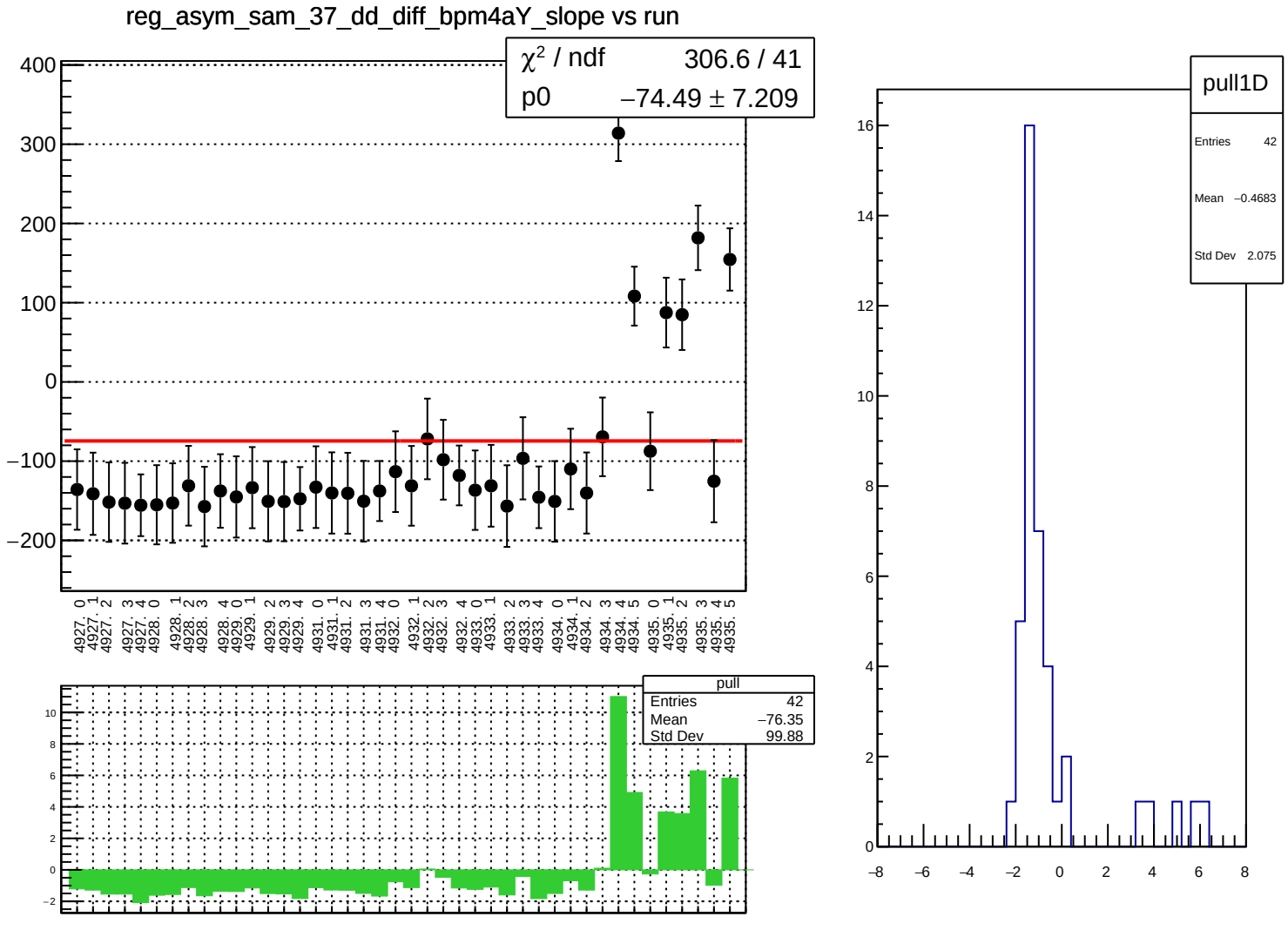

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 305.8 / 41
p0 −39.3 ± 5.384
100
0
−100
−200
−300
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −61.08
Std Dev 84.45
2
0
−2
−4
−6
−8
−10
−12

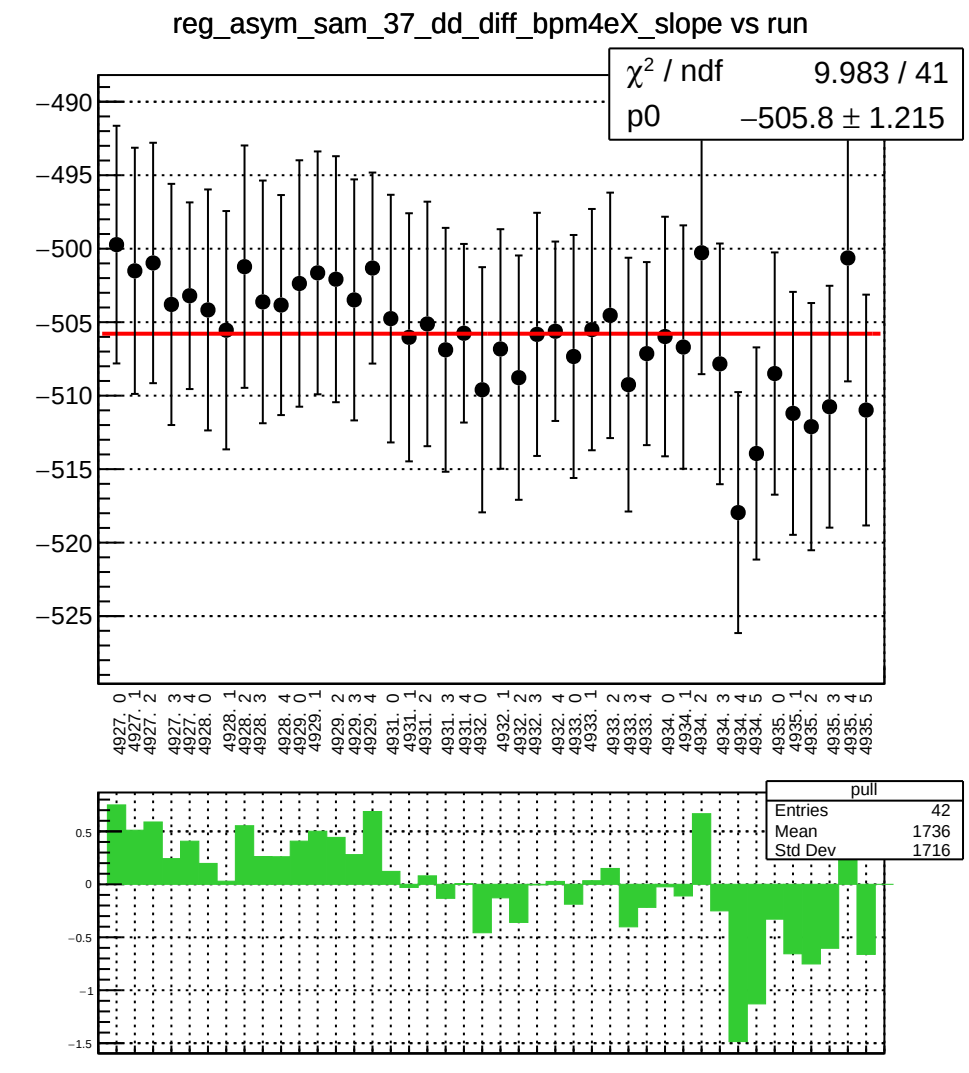

pull1D
Entries 42
Mean 0.5107
Std Dev 2.006
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

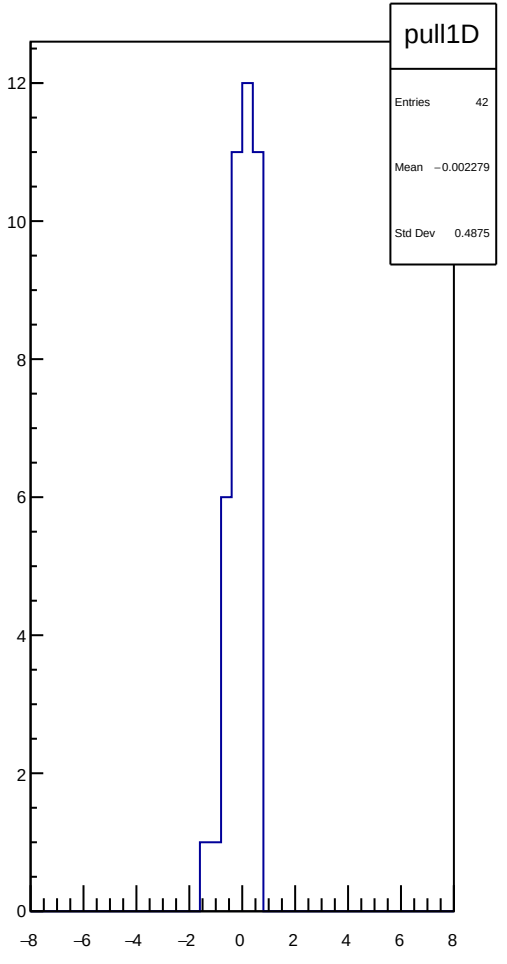

reg_asym_sam_37_avg_diff_bpm11X_slope vs run
χ² / ndf 17.2 / 41
p0 12.55 ± 1.282
pull
Entries 42
Mean 1860
Std Dev 1836
pull1D
Entries 42
Mean −0.002109
Std Dev 0.64

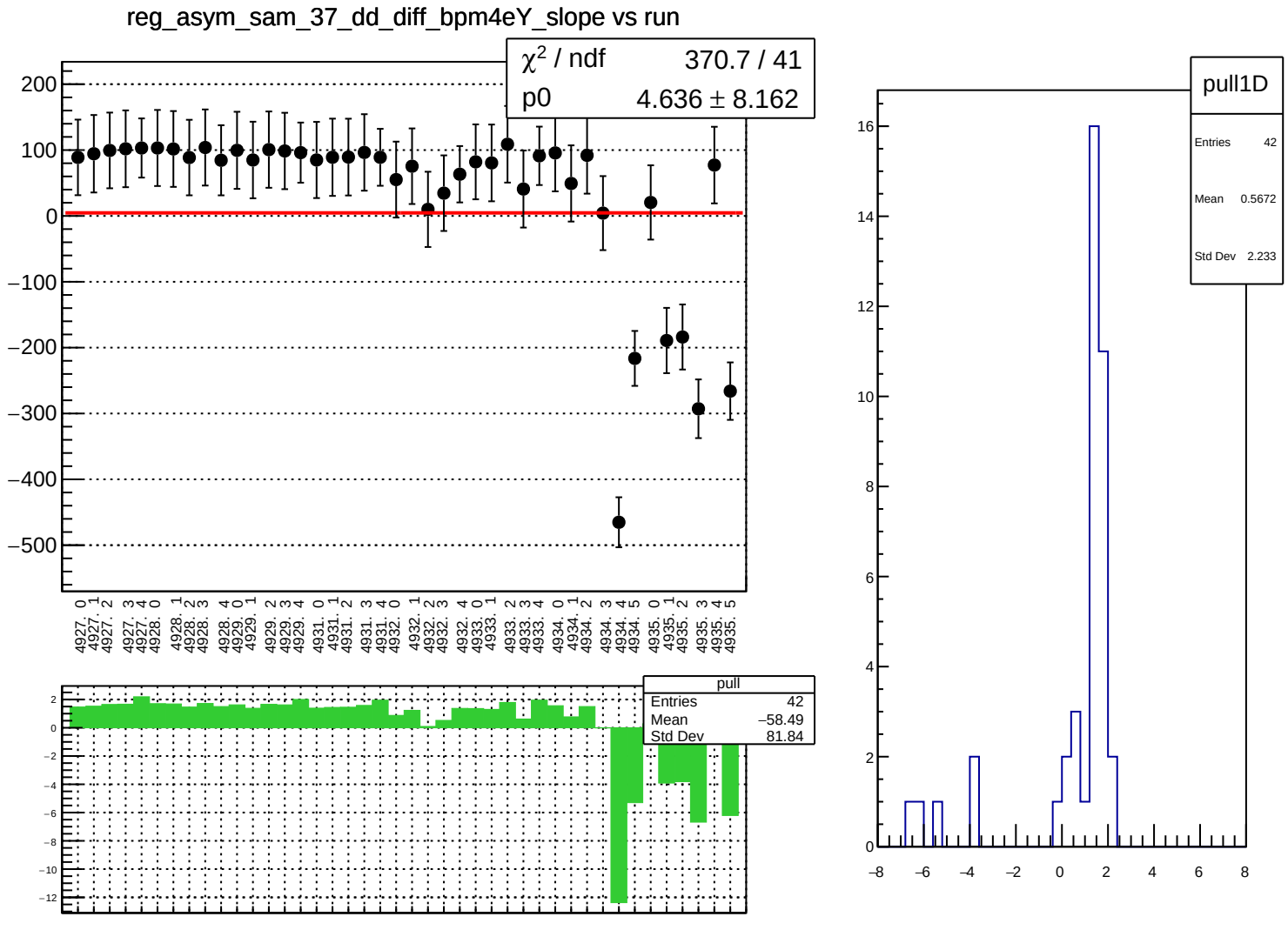

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 18.34 / 41
p0 209.4 ± 5.746
pull
Entries 42
Mean 225.9
Std Dev 201.4

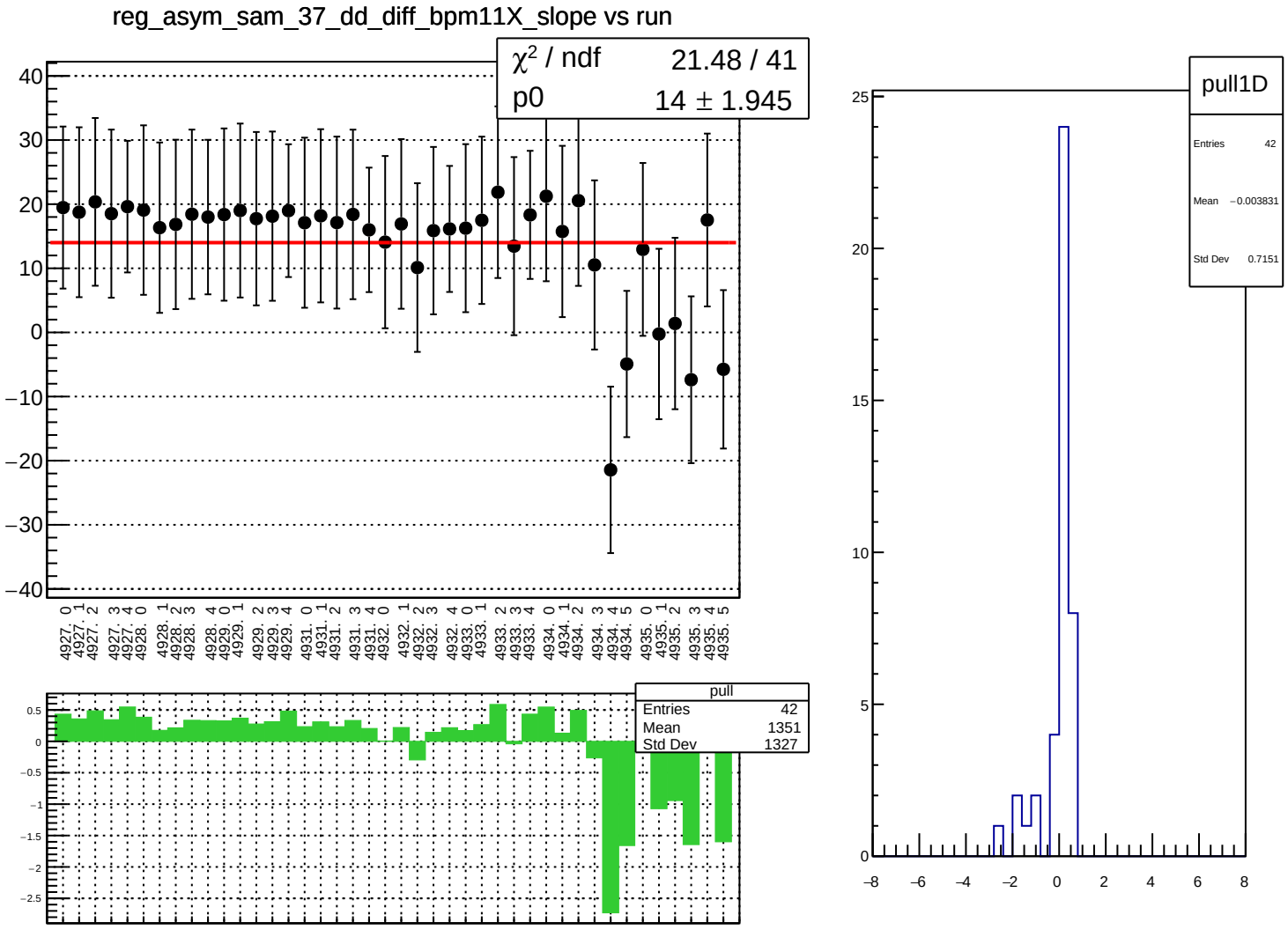

pull1D
Entries 42
Mean −0.02071
Std Dev 0.6606

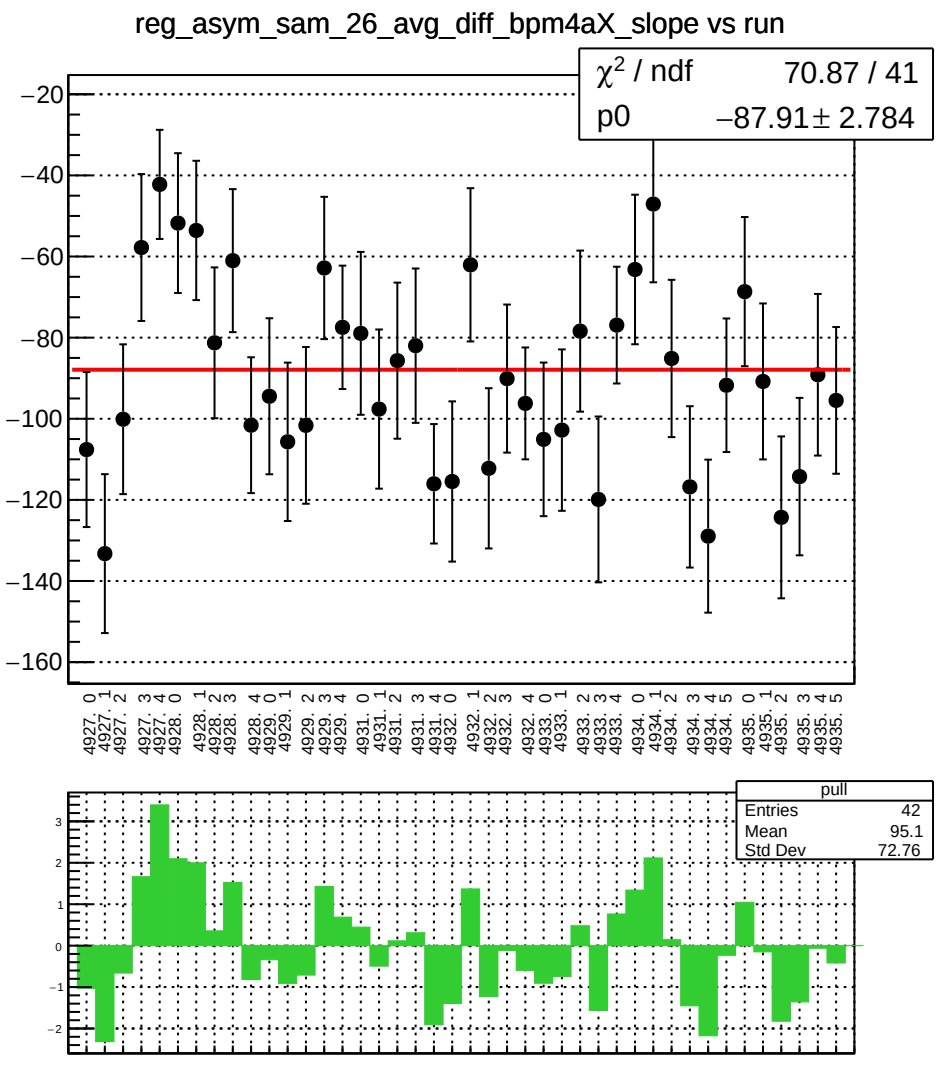

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 306.6 / 41
p0 −74.49 ± 7.209
400
300
200
100
0
−100
−200
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −76.35
Std Dev 99.88
10
8
6
4
2
0
−2
pull1D
Entries 42
Mean −0.4683
Std Dev 2.075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

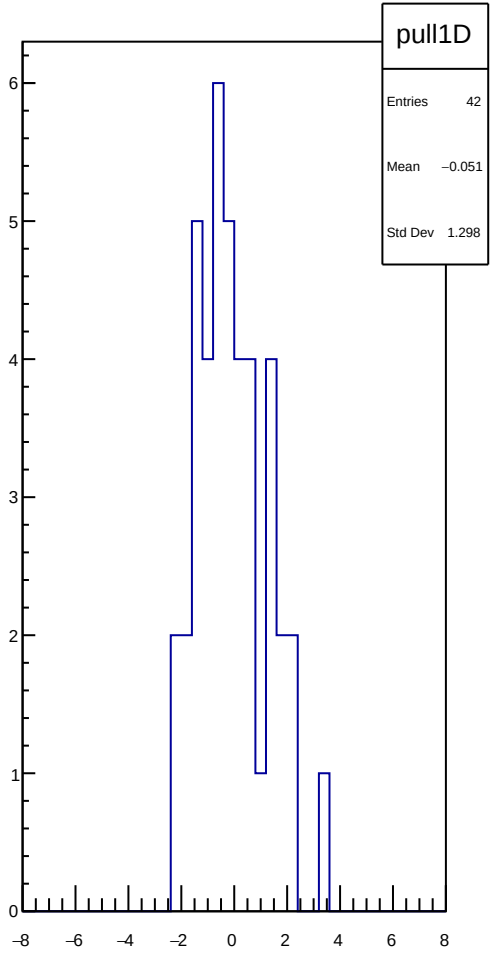

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.983 / 41
p0 −505.8 ± 1.215
−490
−495
−500
−505
−510
−515
−520
−525
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 1736
Std Dev 1716
0.5
0
−0.5
−1
−1.5

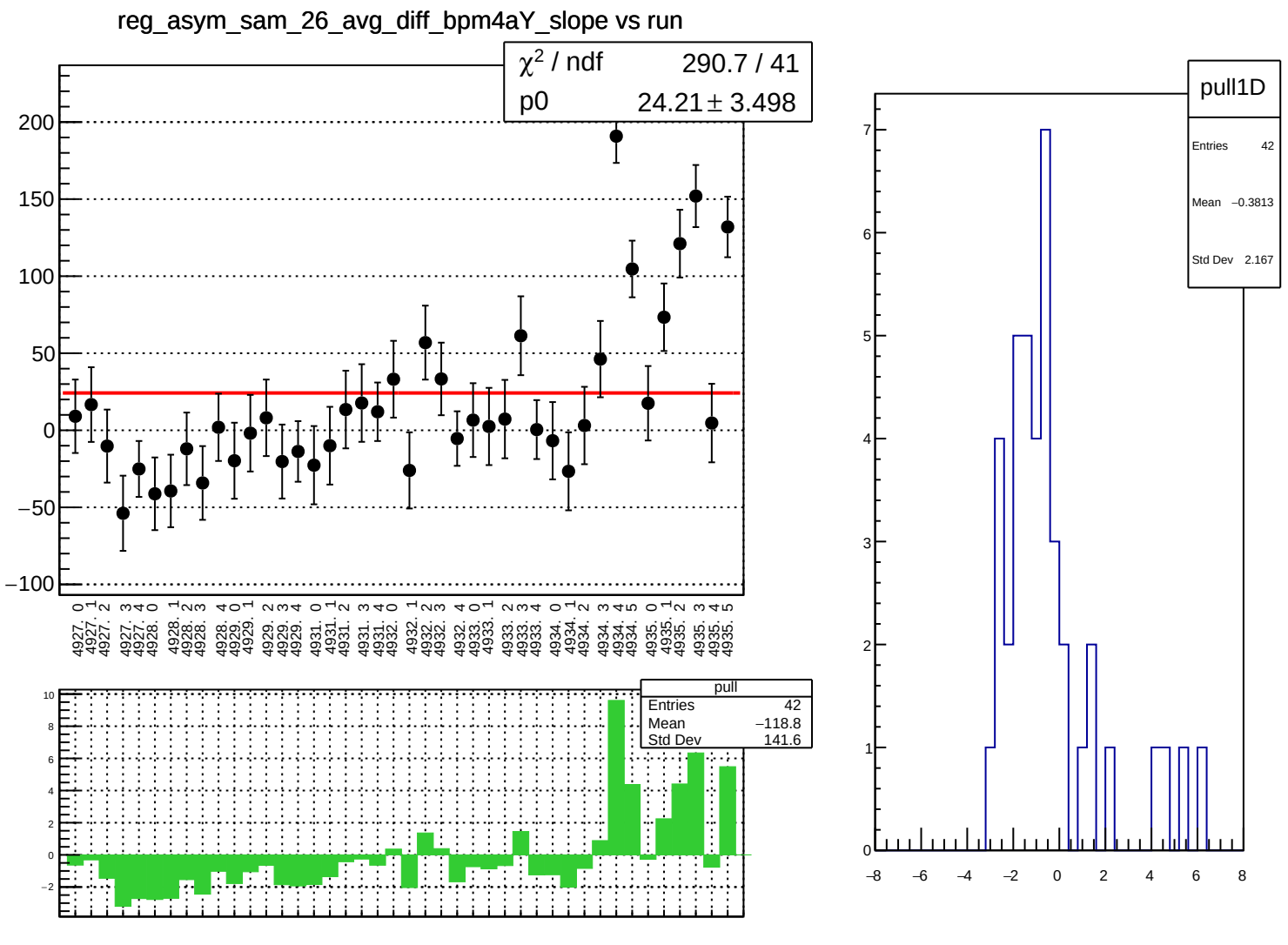

pull1D
Entries 42
Mean −0.002279
Std Dev 0.4875
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

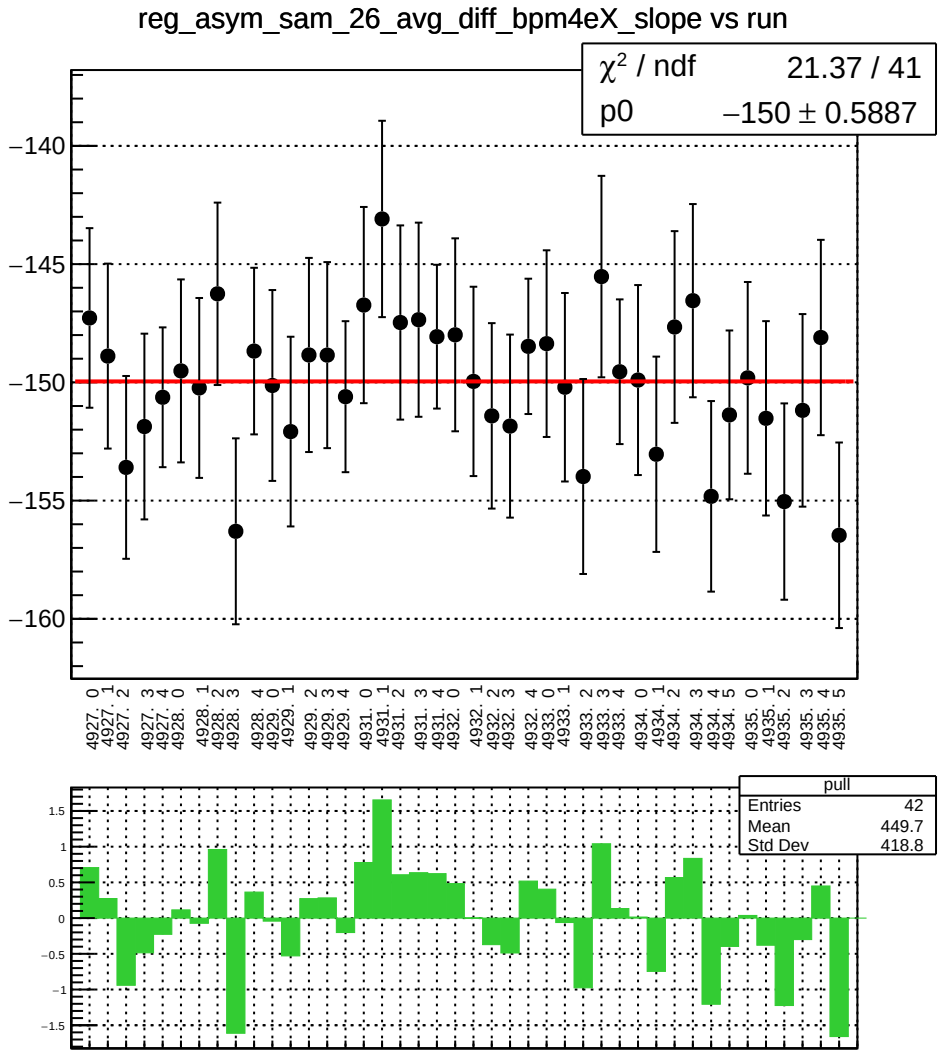

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 370.7 / 41
p0 4.636 ± 8.162
200
100
0
−100
−200
−300
−400
−500
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −58.49
Std Dev 81.84
2
0
−2
−4
−6
−8
−10
−12
pull1D
Entries 42
Mean 0.5672
Std Dev 2.233
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

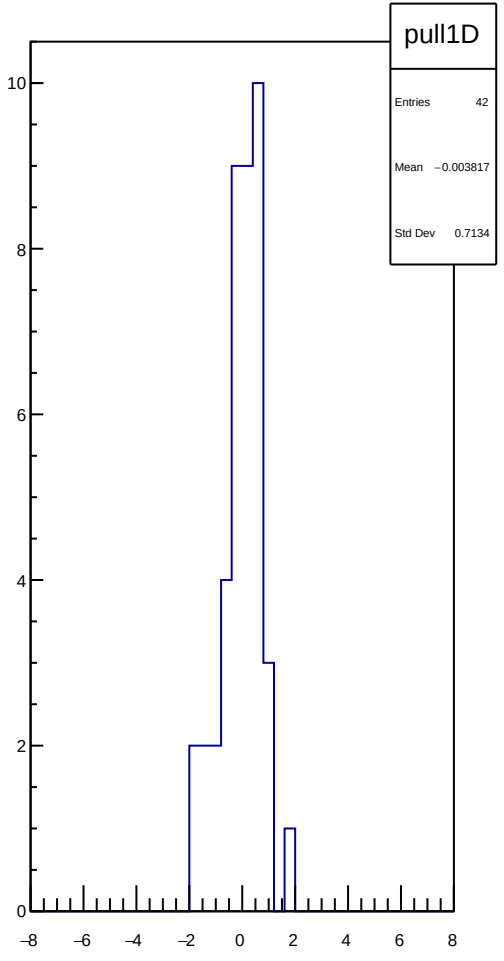

reg_asym_sam_37_dd_diff_bpm11X_slope vs run
χ² / ndf 21.48 / 41
p0 14 ± 1.945
pull
Entries 42
Mean 1351
Std Dev 1327
pull1D
Entries 42
Mean −0.003831
Std Dev 0.7151

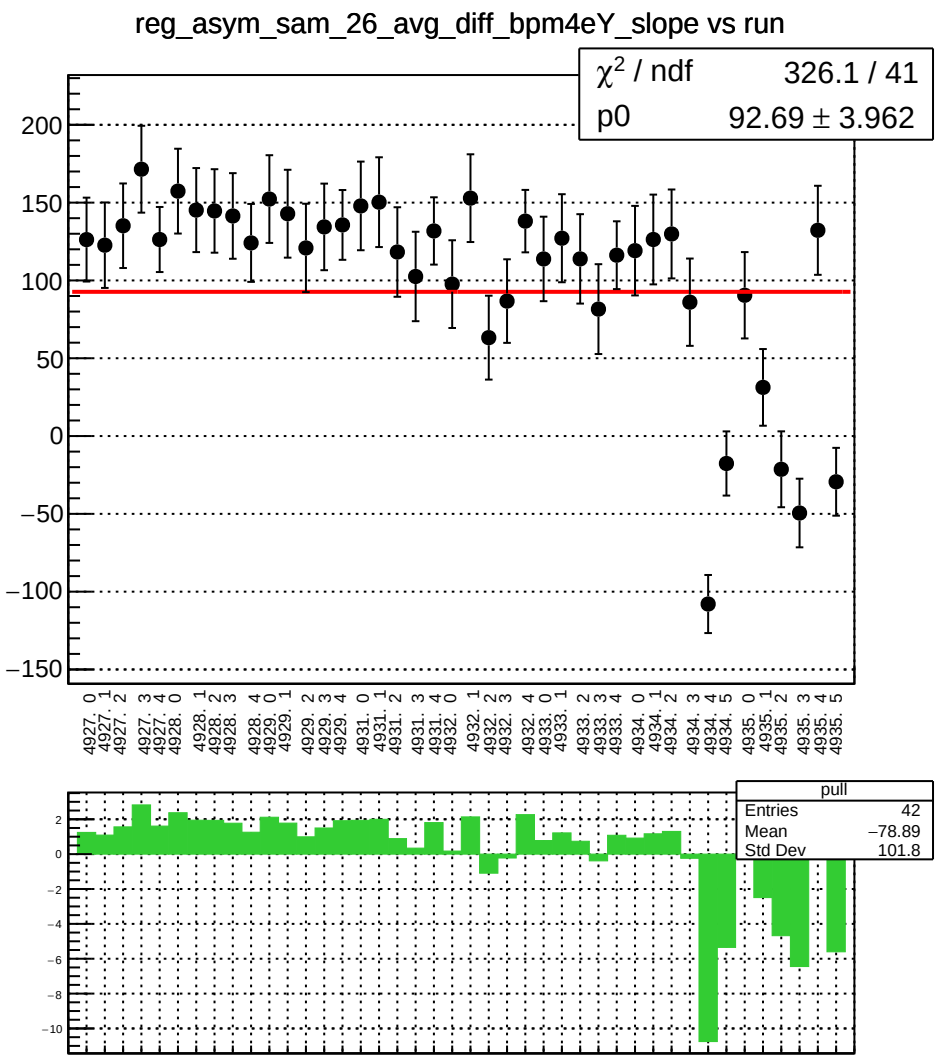

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 70.87 / 41
p0 −87.91 ± 2.784
pull
Entries 42
Mean 95.1
Std Dev 72.76

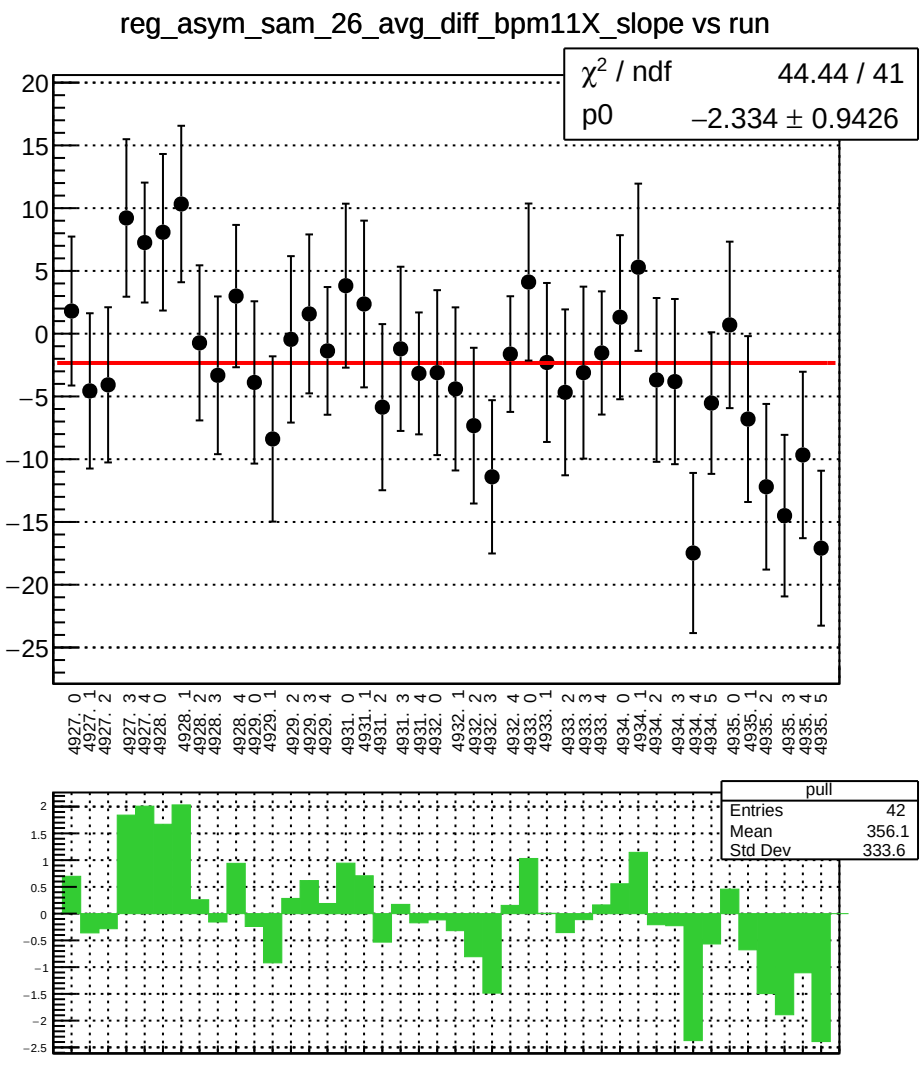

pull1D
Entries 42
Mean −0.051
Std Dev 1.298

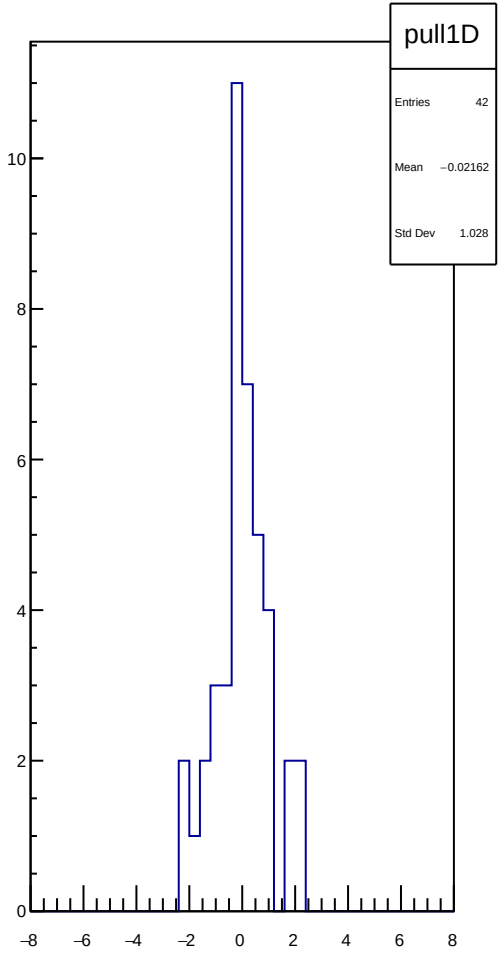

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 290.7 / 41
p0 24.21 ± 3.498
200
150
100
50
0
−50
−100
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −118.8
Std Dev 141.6
10
8
6
4
2
0
−2
pull1D
Entries 42
Mean −0.3813
Std Dev 2.167
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

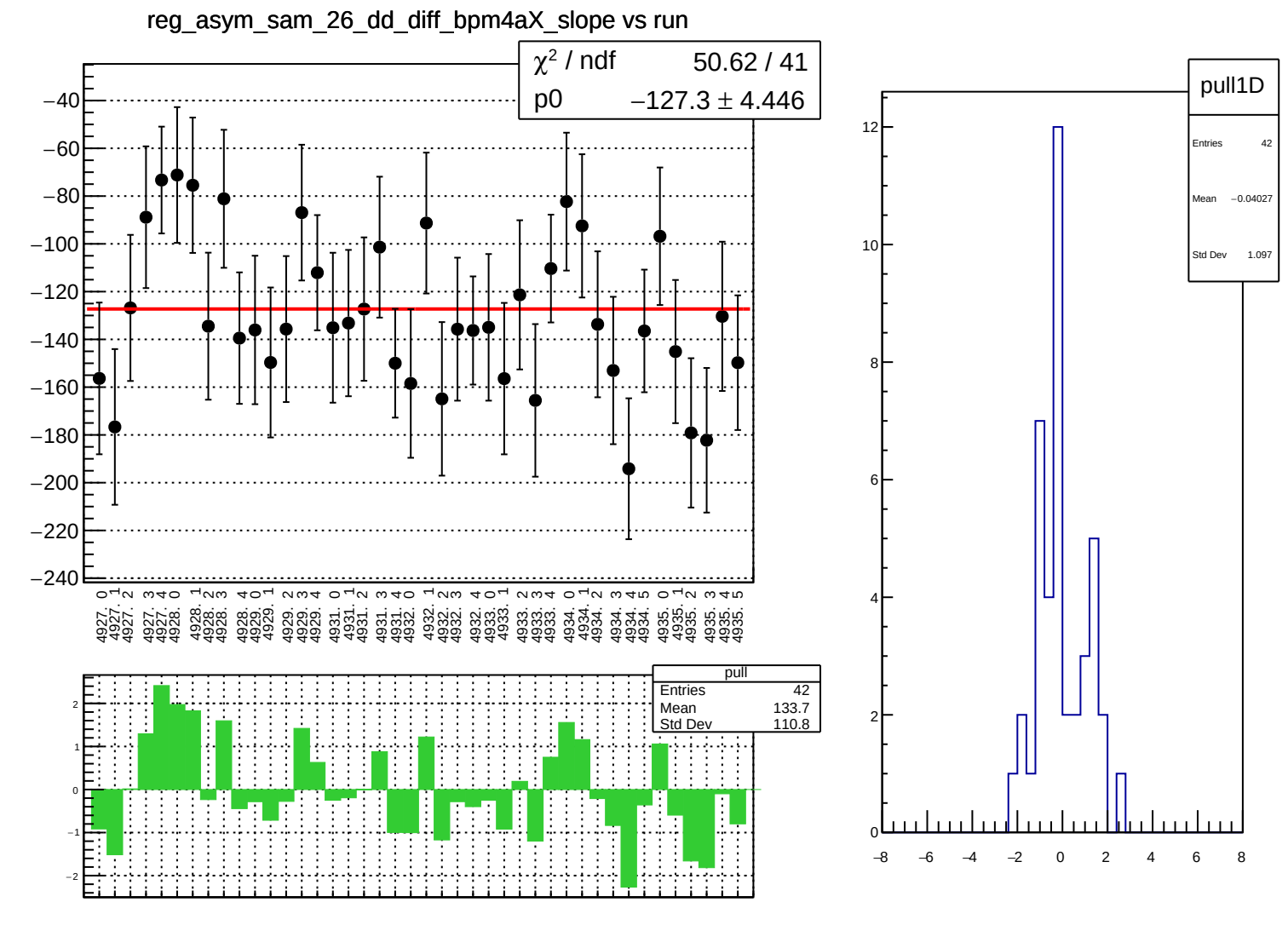

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.37 / 41
p0 −150 ± 0.5887
pull
Entries 42
Mean 449.7
Std Dev 418.8

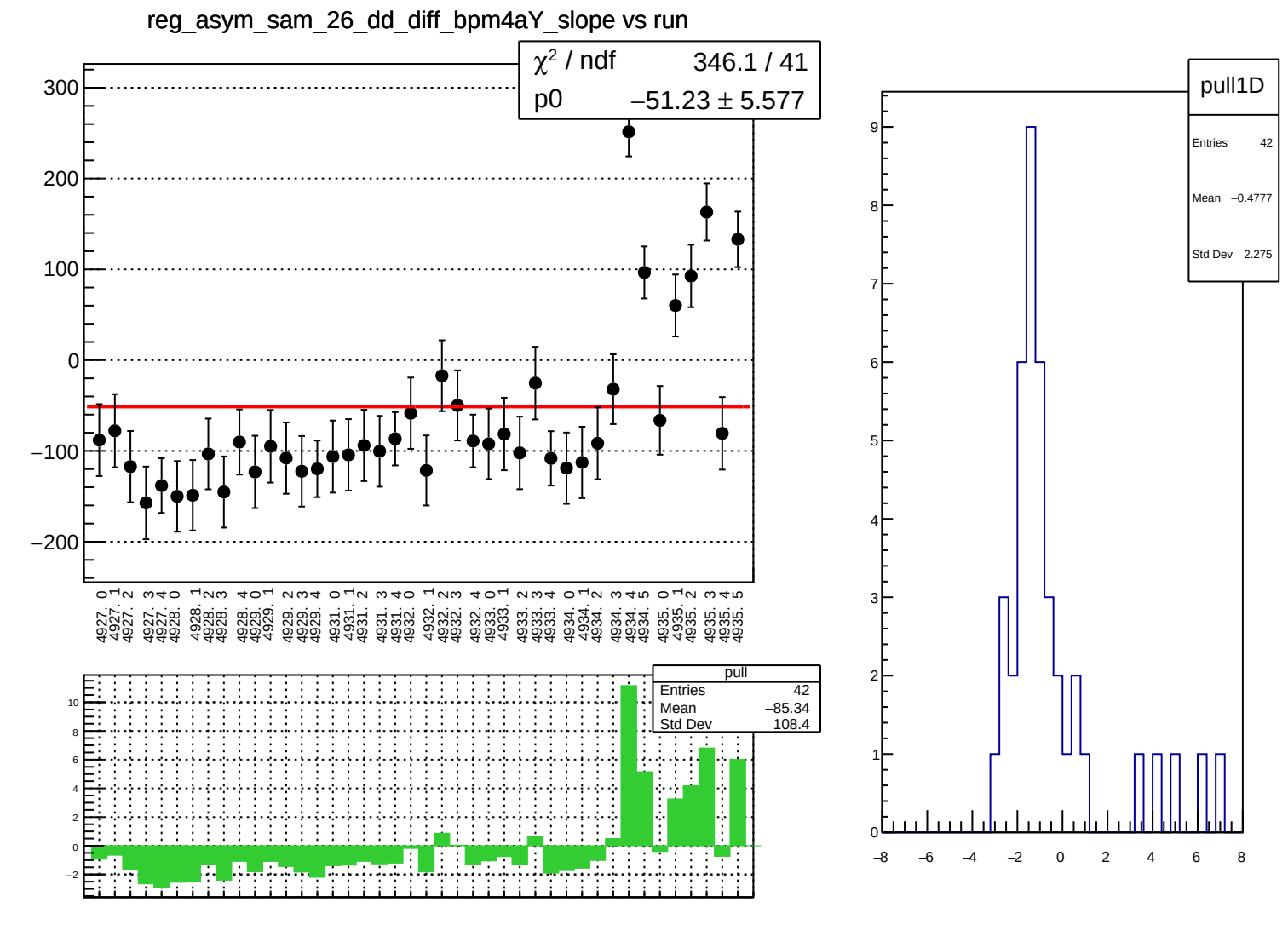

pull1D
Entries 42
Mean −0.003817
Std Dev 0.7134

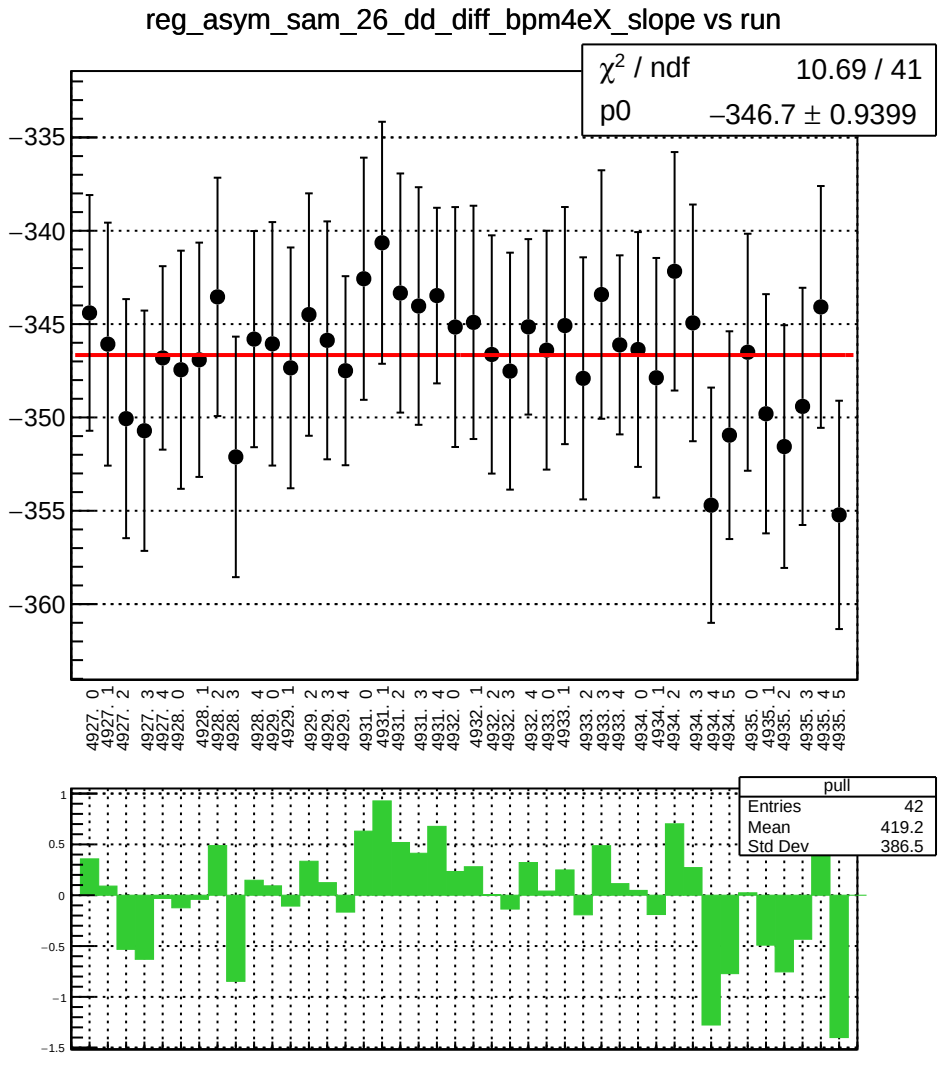

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 326.1 / 41
p0 92.69 ± 3.962
200
150
100
50
0
−50
−100
−150
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −78.89
Std Dev 101.8
2
0
−2
−4
−6
−8
−10
pull1D
Entries 42
Mean 0.4747
Std Dev 2.216
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

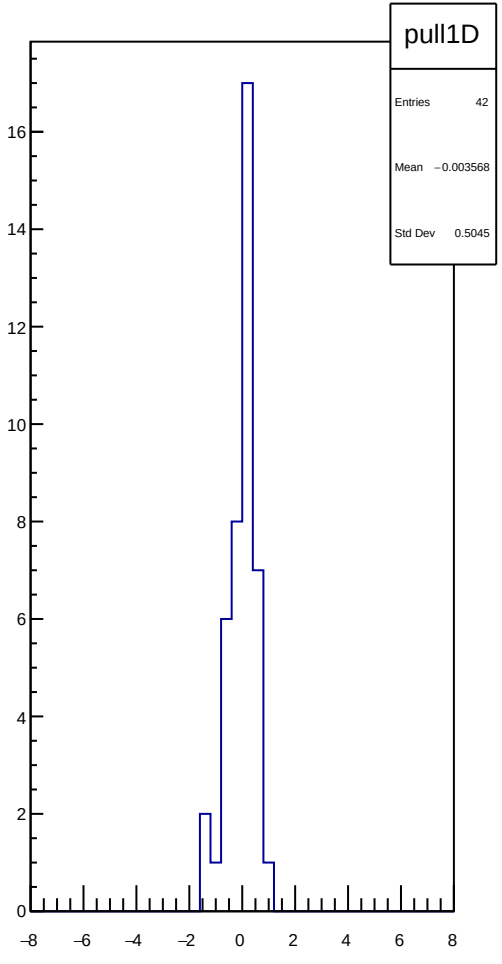

reg_asym_sam_26_avg_diff_bpm11X_slope vs run
χ² / ndf 44.44 / 41
p0 −2.334 ± 0.9426
pull
Entries 42
Mean 356.1
Std Dev 333.6

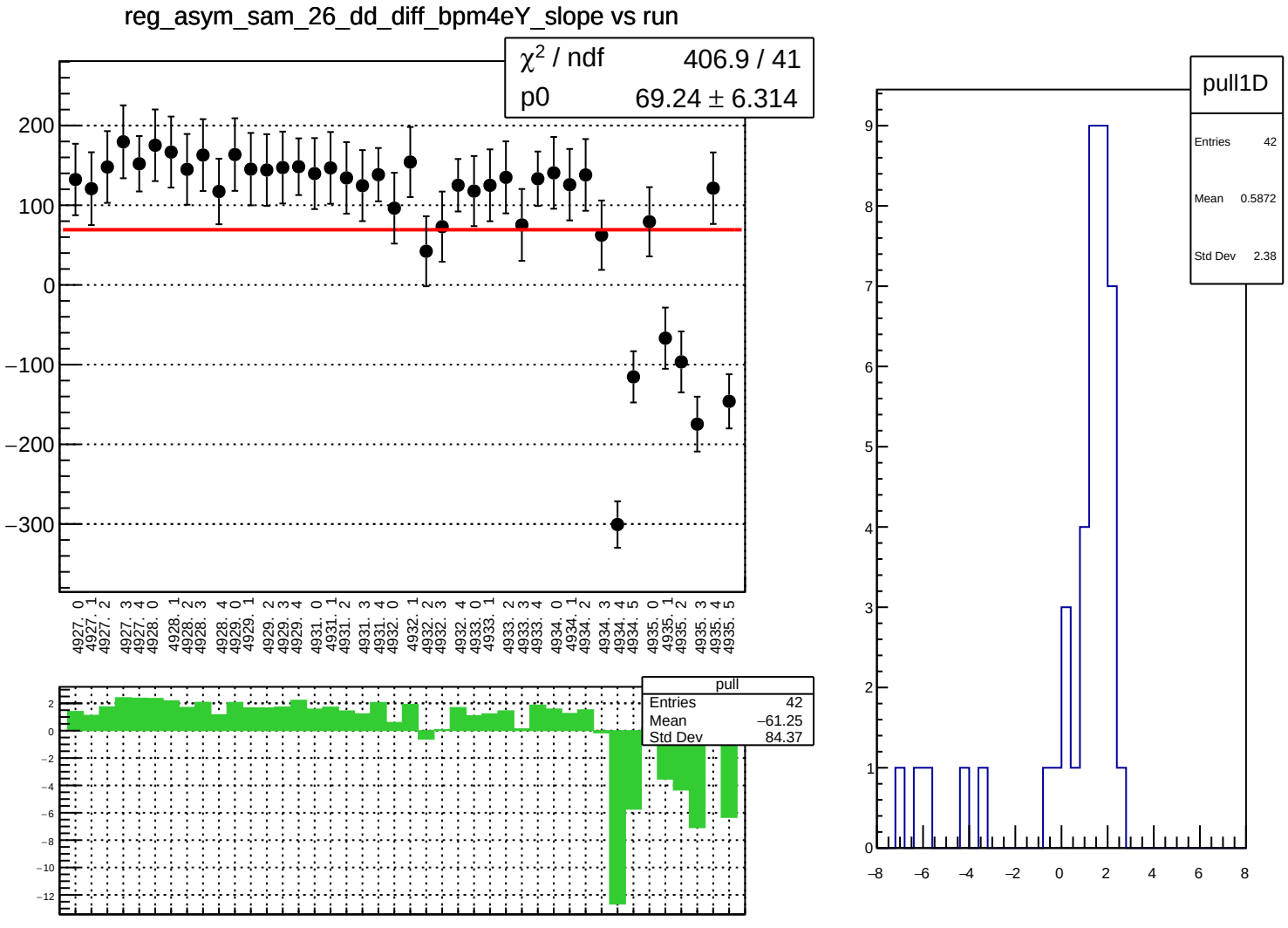

pull1D
Entries 42
Mean −0.02162
Std Dev 1.028

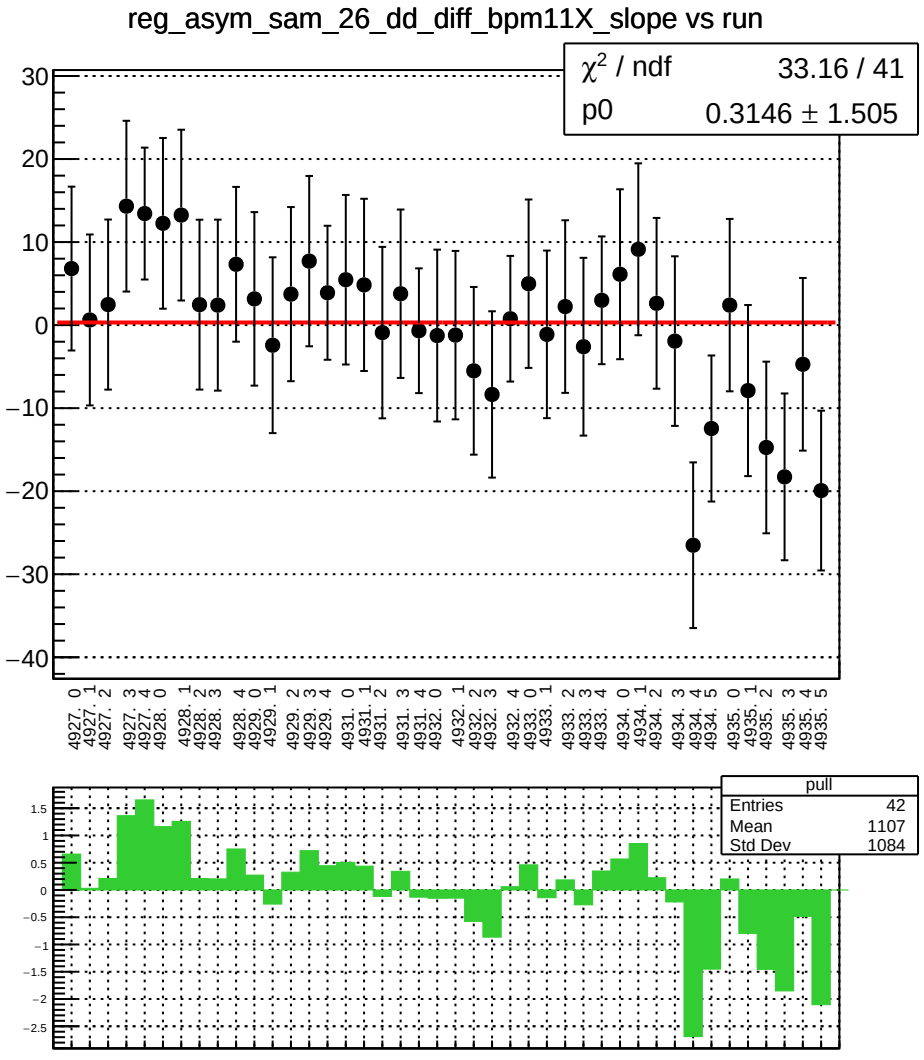

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 50.62 / 41
p0 −127.3 ± 4.446
pull
Entries 42
Mean 133.7
Std Dev 110.8
pull1D
Entries 42
Mean −0.04027
Std Dev 1.097

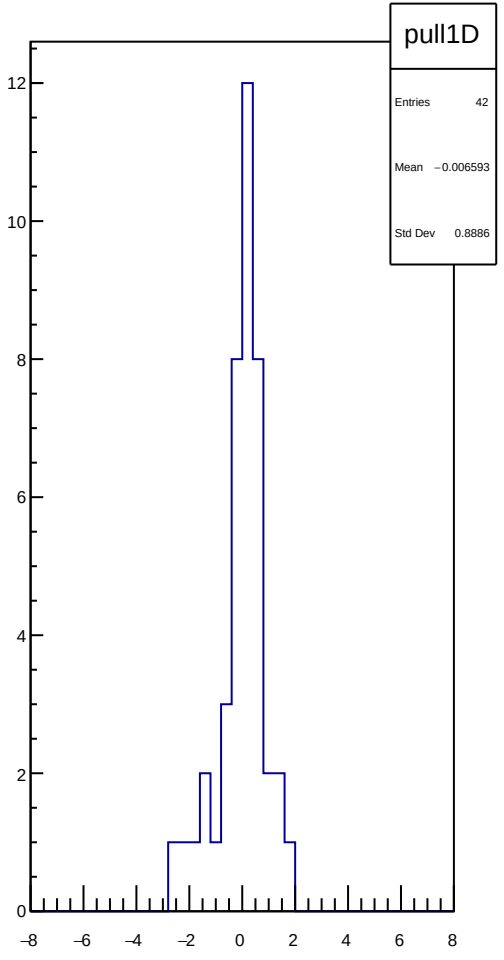

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 346.1 / 41
p0 −51.23 ± 5.577
pull
Entries 42
Mean −85.34
Std Dev 108.4
pull1D
Entries 42
Mean −0.4777
Std Dev 2.275

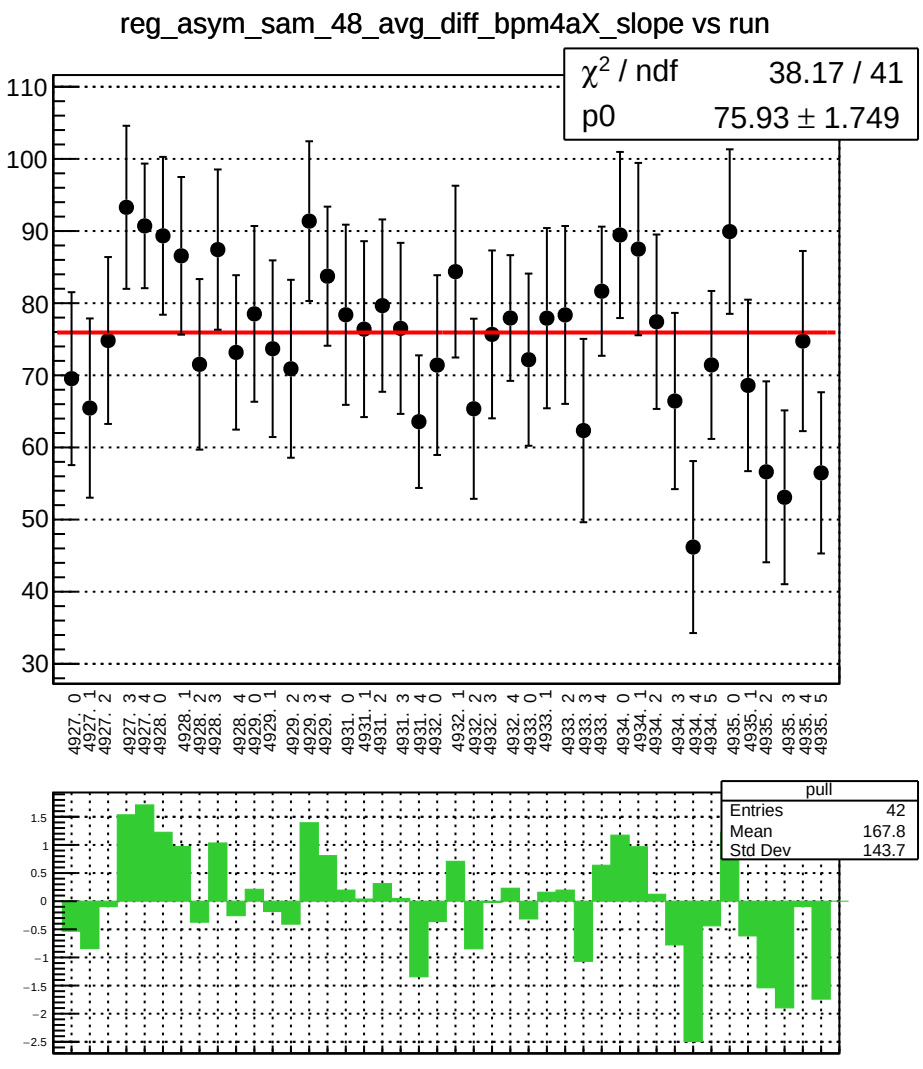

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.69 / 41
p0 −346.7 ± 0.9399
pull
Entries 42
Mean 419.2
Std Dev 386.5

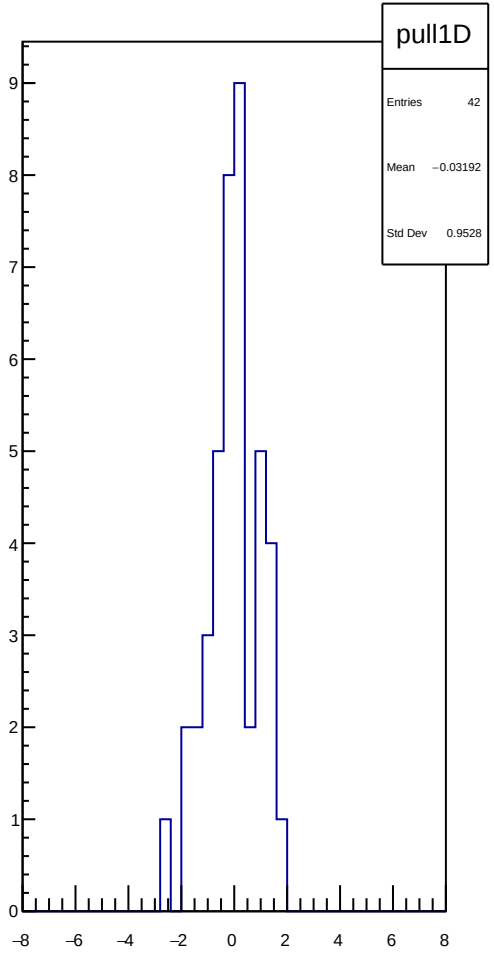

pull1D
Entries 42
Mean −0.003568
Std Dev 0.5045

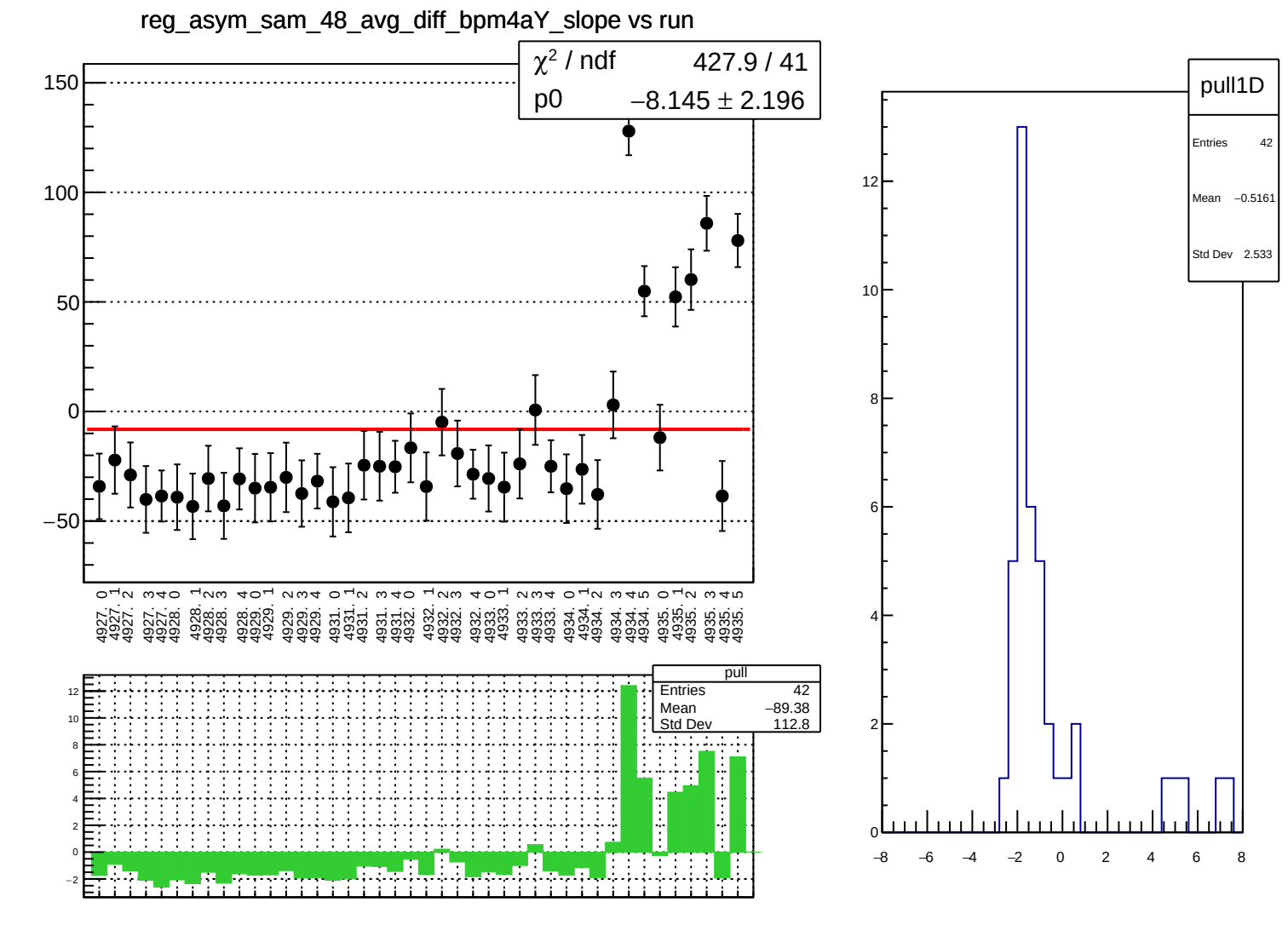

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 406.9 / 41
p0 69.24 ± 6.314
200
100
0
−100
−200
−300
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −61.25
Std Dev 84.37
2
0
−2
−4
−6
−8
−10
−12
pull1D
Entries 42
Mean 0.5872
Std Dev 2.38
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

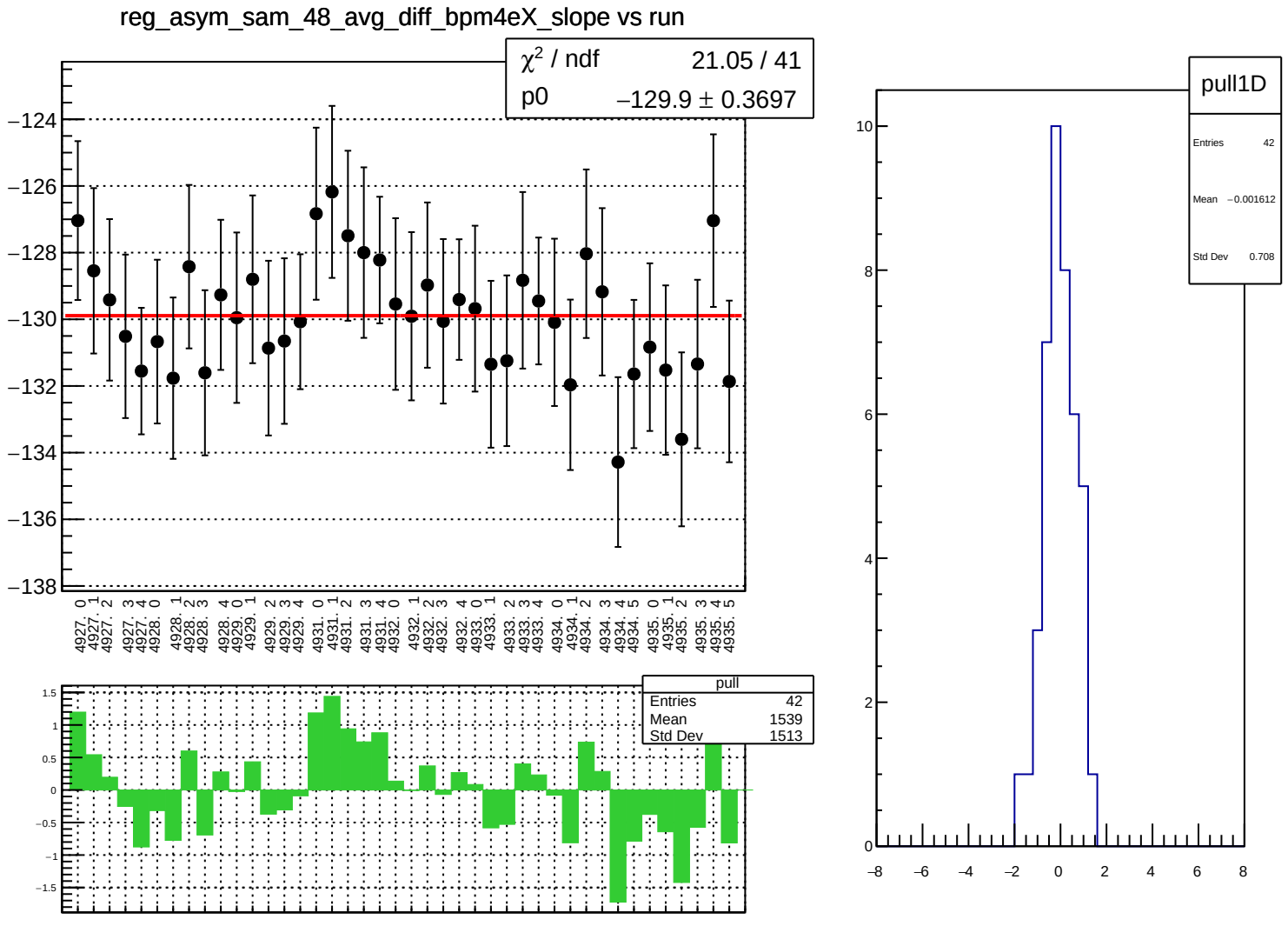

reg_asym_sam_26_dd_diff_bpm11X_slope vs run
χ² / ndf 33.16 / 41
p0 0.3146 ± 1.505
pull
Entries 42
Mean 1107
Std Dev 1084

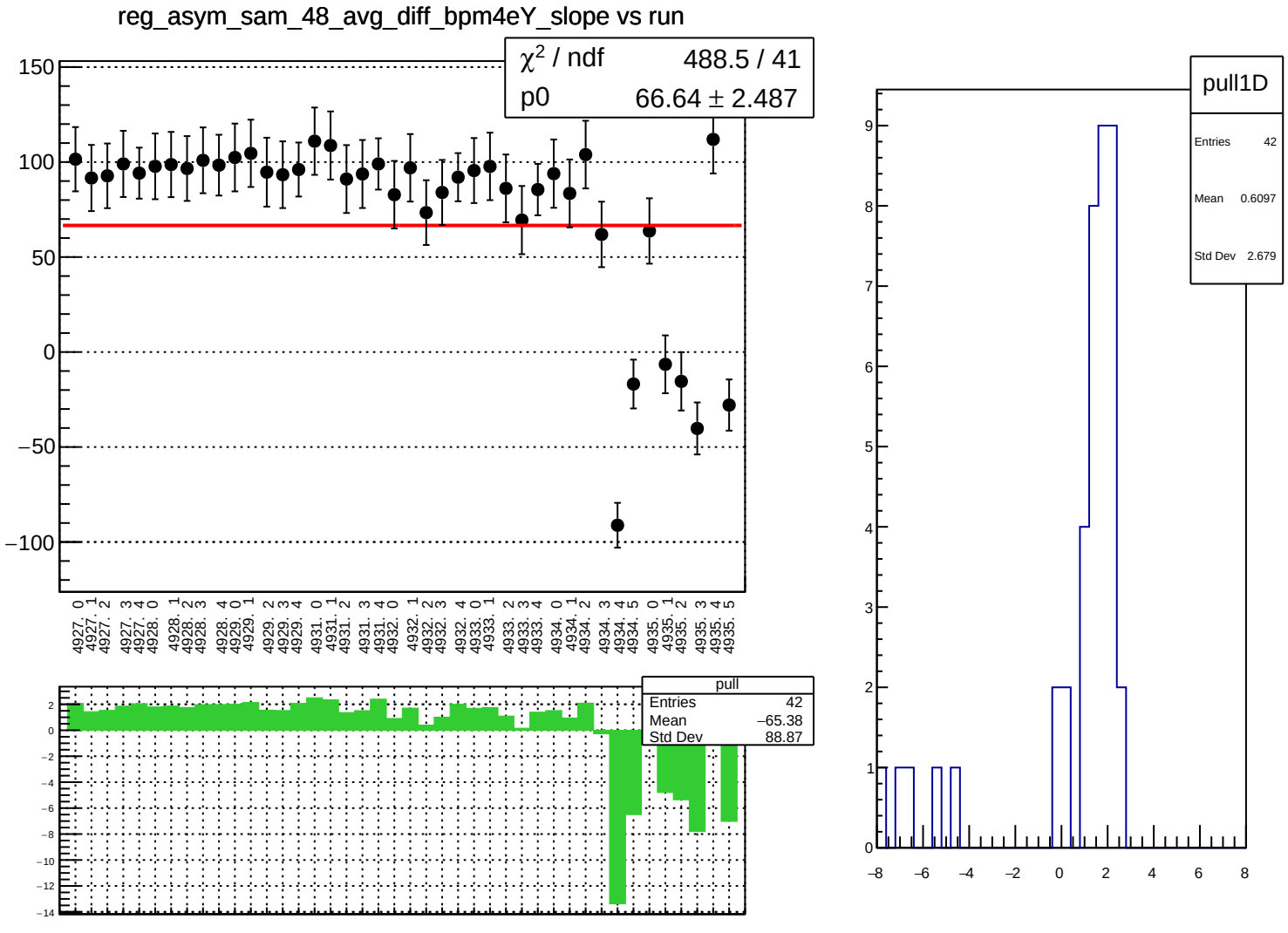

pull1D
Entries 42
Mean −0.006593
Std Dev 0.8886

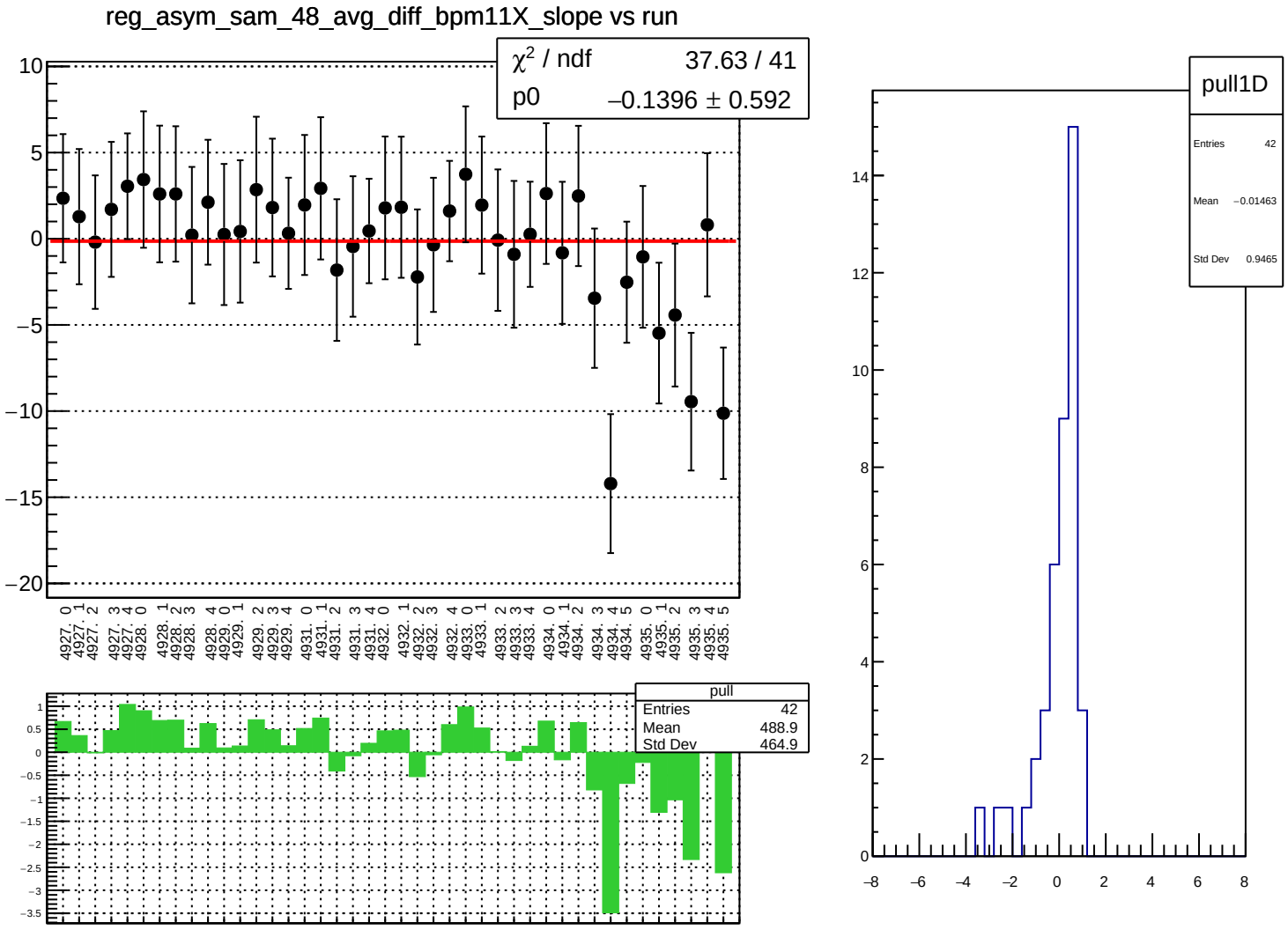

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 38.17 / 41
p0 75.93 ± 1.749
pull
Entries 42
Mean 167.8
Std Dev 143.7

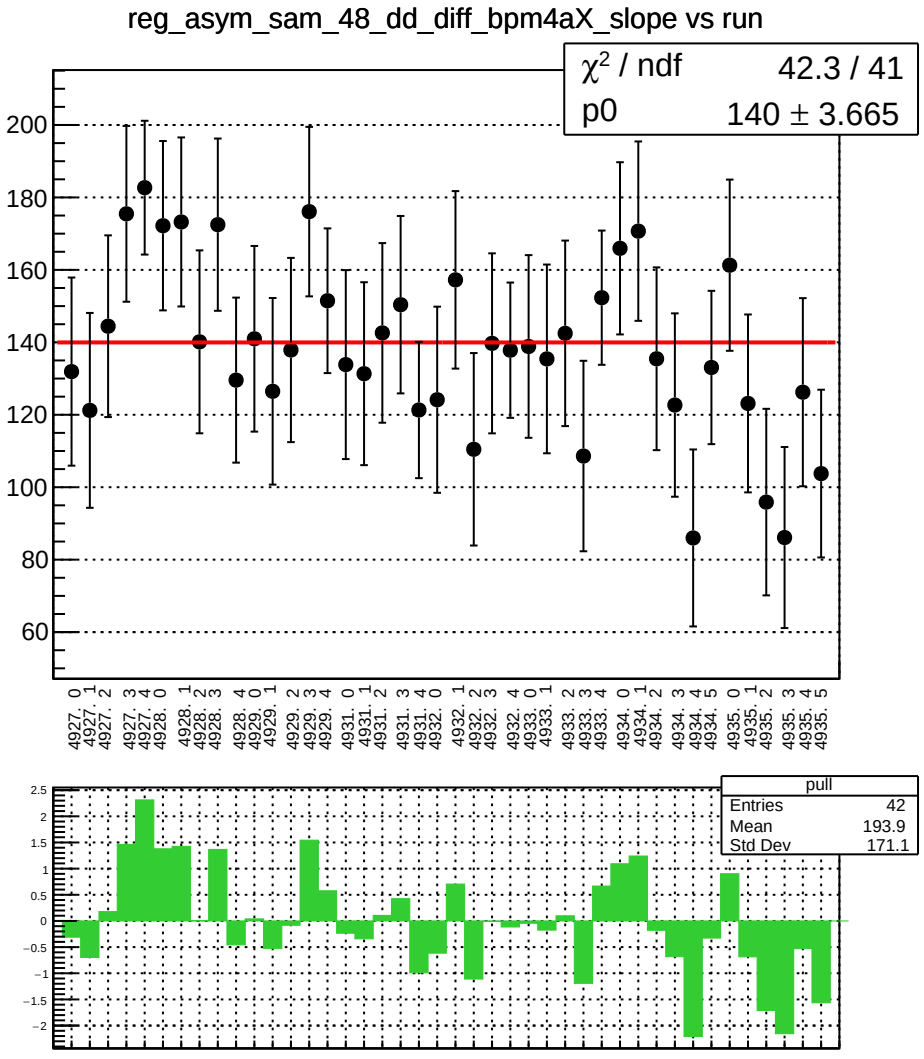

pull1D
Entries 42
Mean −0.03192
Std Dev 0.9528

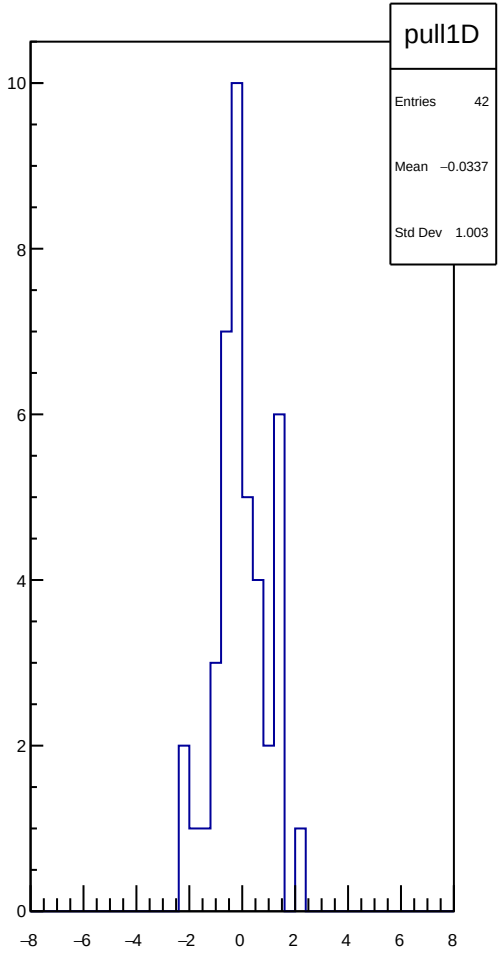

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 427.9 / 41
p0 −8.145 ± 2.196
150
100
50
0
−50
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −89.38
Std Dev 112.8
12
10
8
6
4
2
0
−2
pull1D
Entries 42
Mean −0.5161
Std Dev 2.533
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

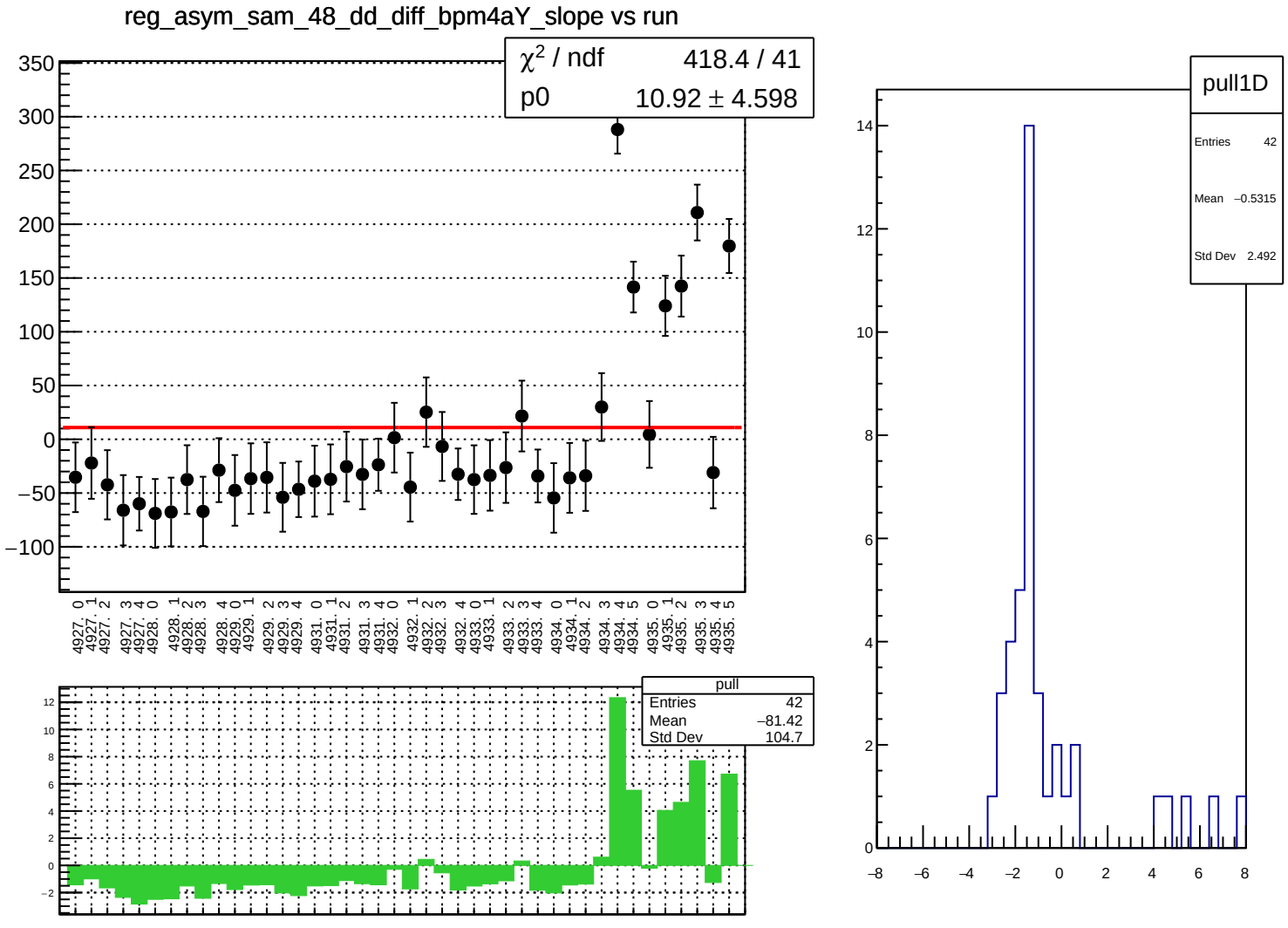

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.05 / 41
p0 −129.9 ± 0.3697
−124
−126
−128
−130
−132
−134
−136
−138
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 1539
Std Dev 1513
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean −0.001612
Std Dev 0.708
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

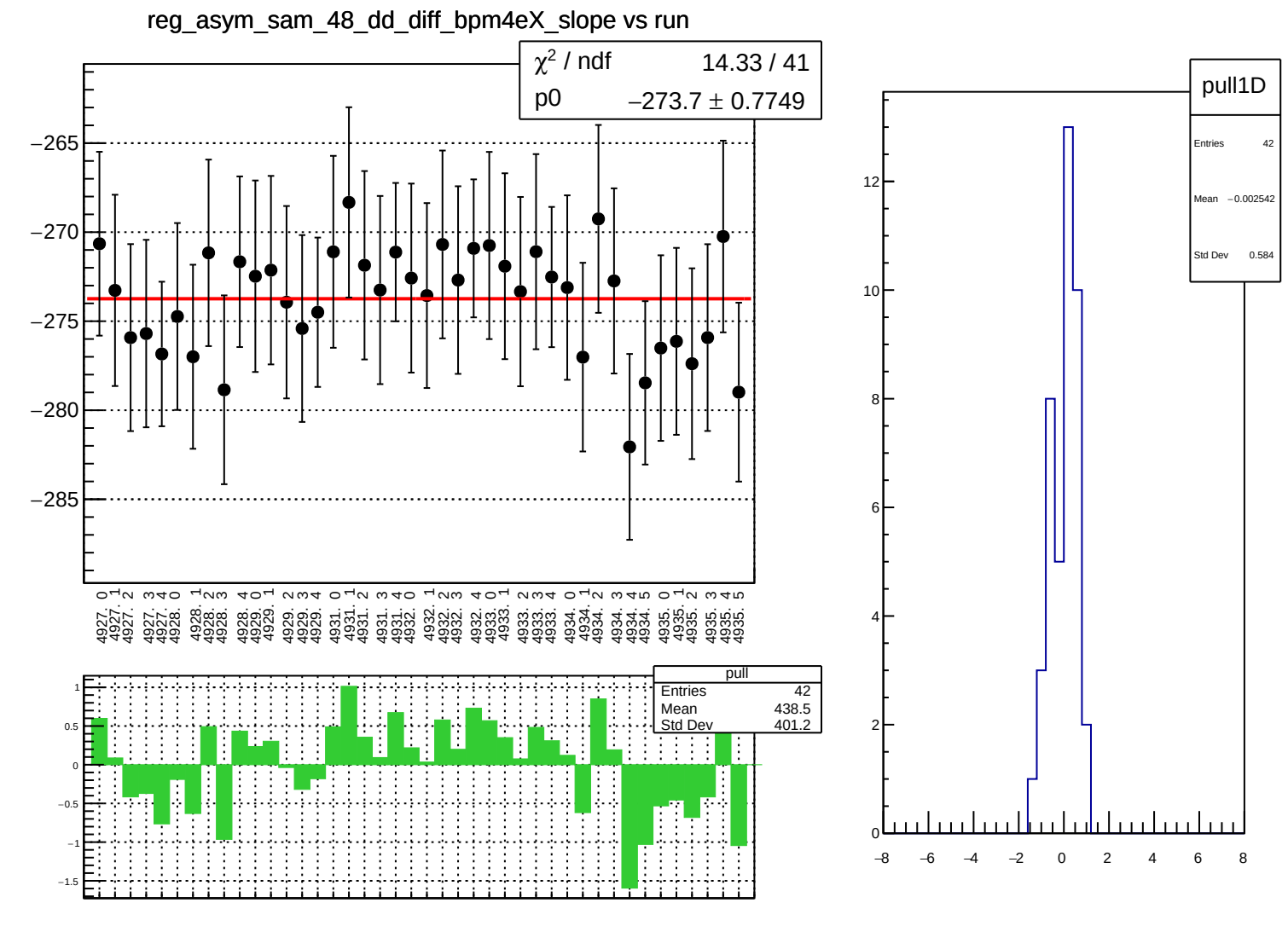

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 488.5 / 41
p0 66.64 ± 2.487
150
100
50
0
−50
−100
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −65.38
Std Dev 88.87
2
0
−2
−4
−6
−8
−10
−12
−14
pull1D
Entries 42
Mean 0.6097
Std Dev 2.679
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

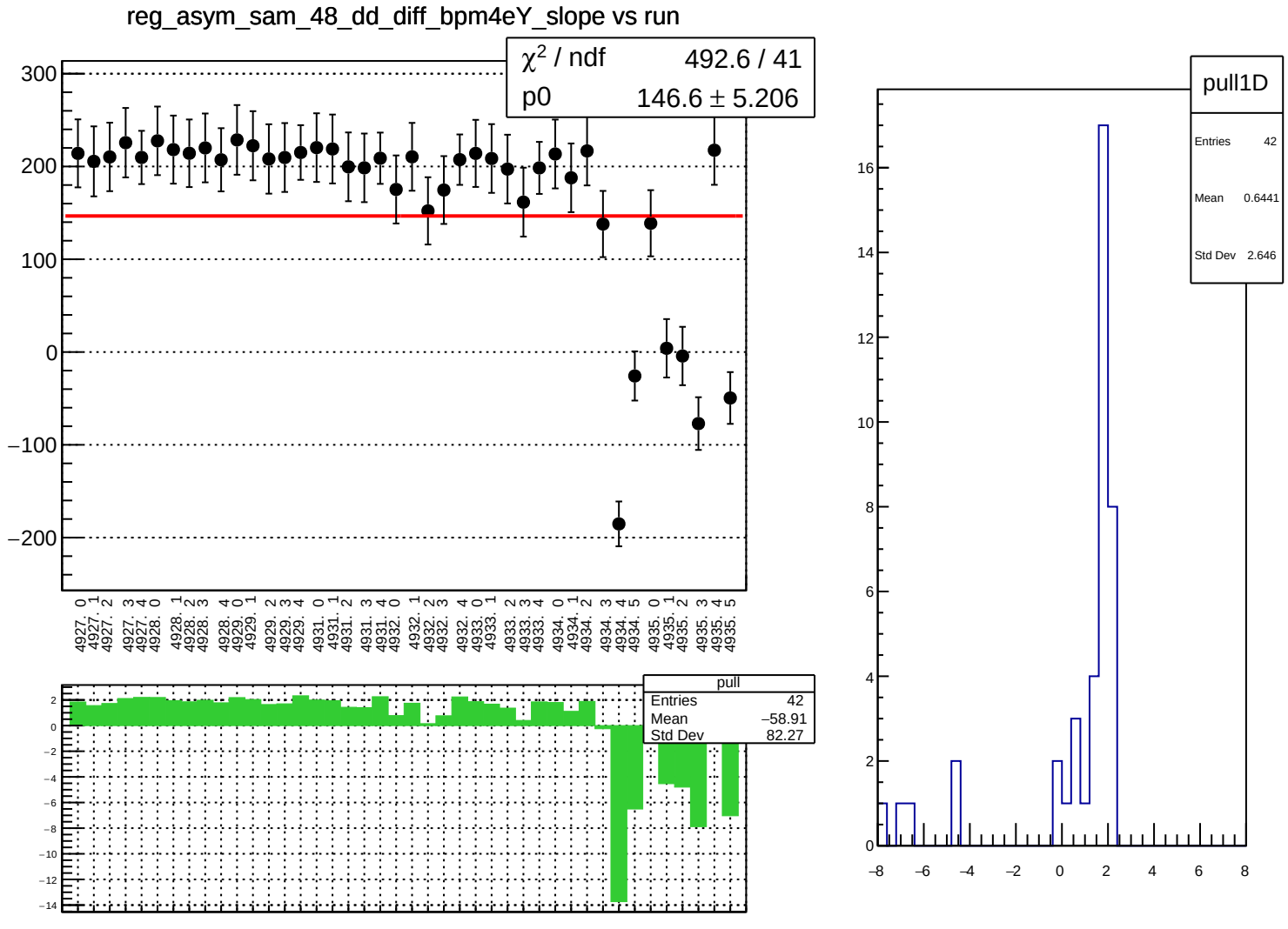

reg_asym_sam_48_avg_diff_bpm11X_slope vs run
χ² / ndf 37.63 / 41
p0 −0.1396 ± 0.592
pull
Entries 42
Mean 488.9
Std Dev 464.9
pull1D
Entries 42
Mean −0.01463
Std Dev 0.9465

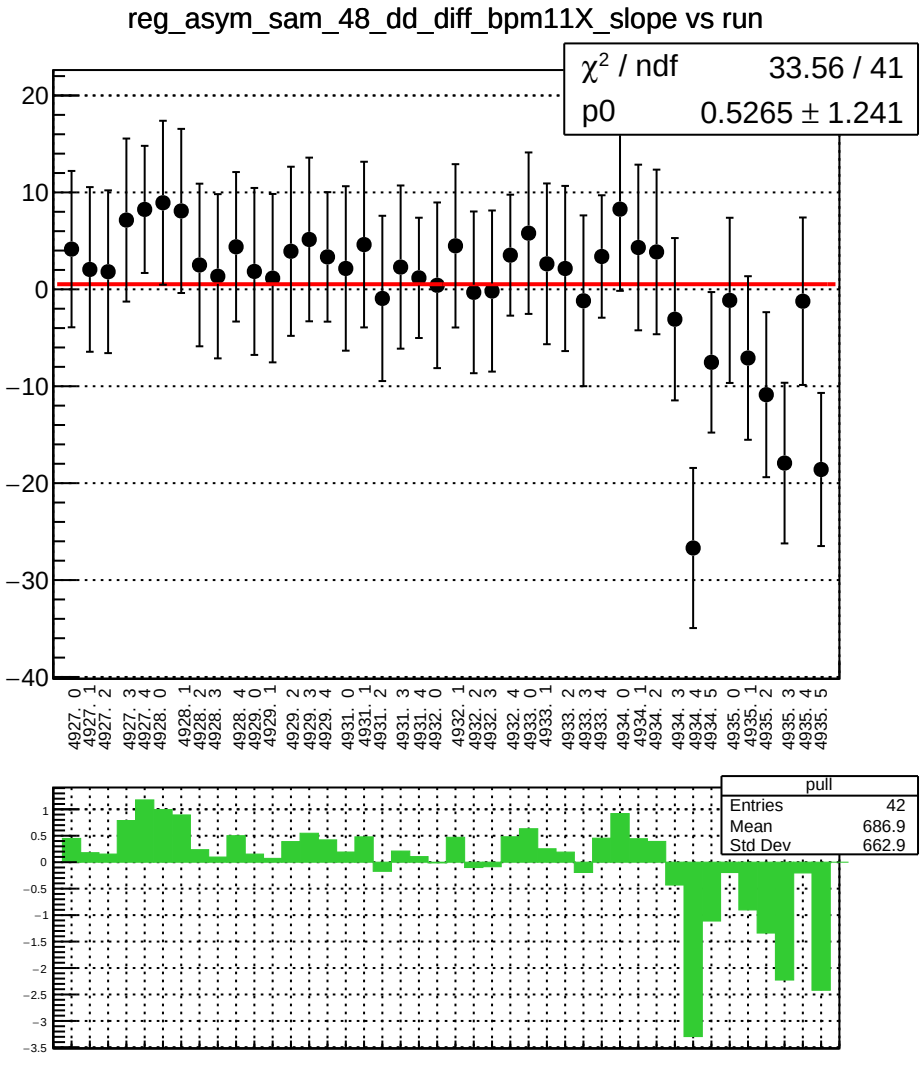

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 42.3 / 41
p0 140 ± 3.665
pull
Entries 42
Mean 193.9
Std Dev 171.1

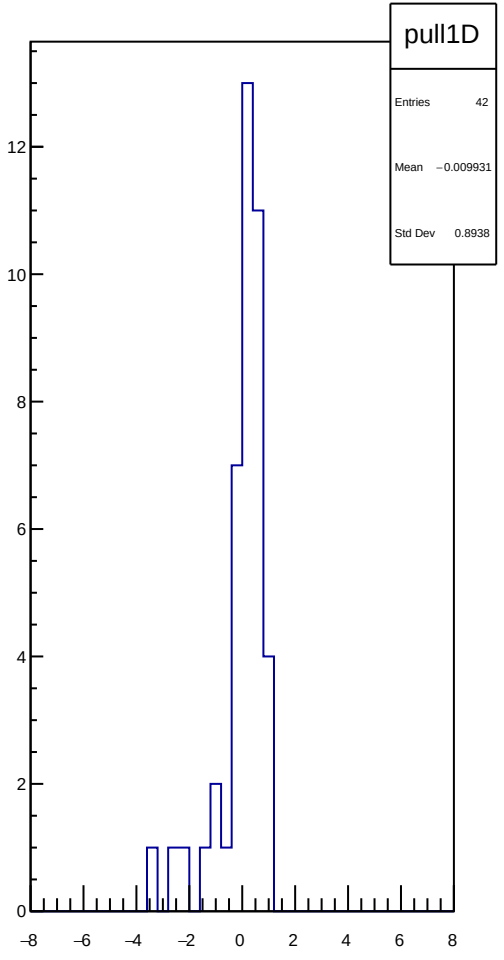

pull1D
Entries 42
Mean −0.0337
Std Dev 1.003

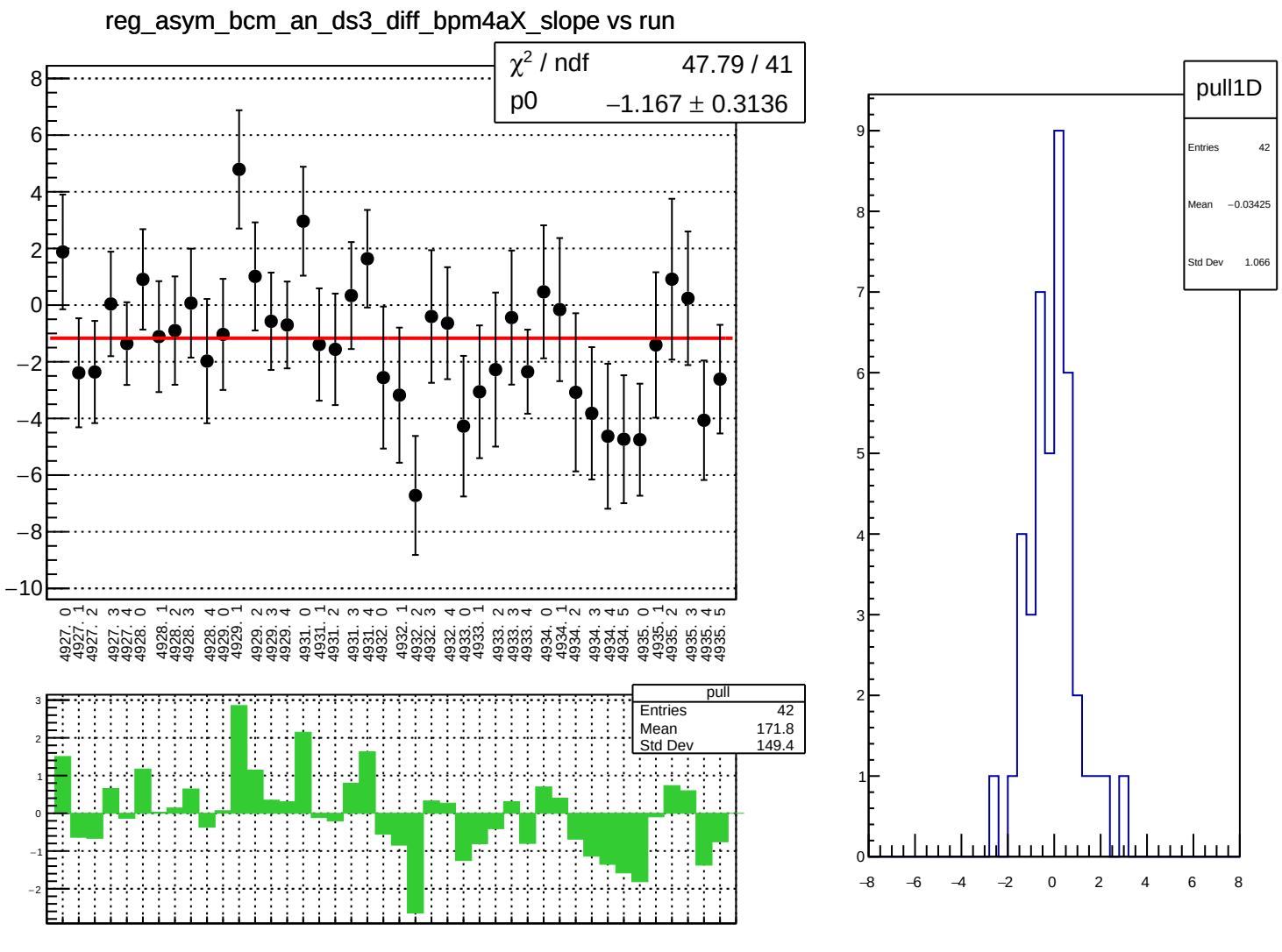

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 418.4 / 41
p0 10.92 ± 4.598
pull
Entries 42
Mean −81.42
Std Dev 104.7
pull1D
Entries 42
Mean −0.5315
Std Dev 2.492

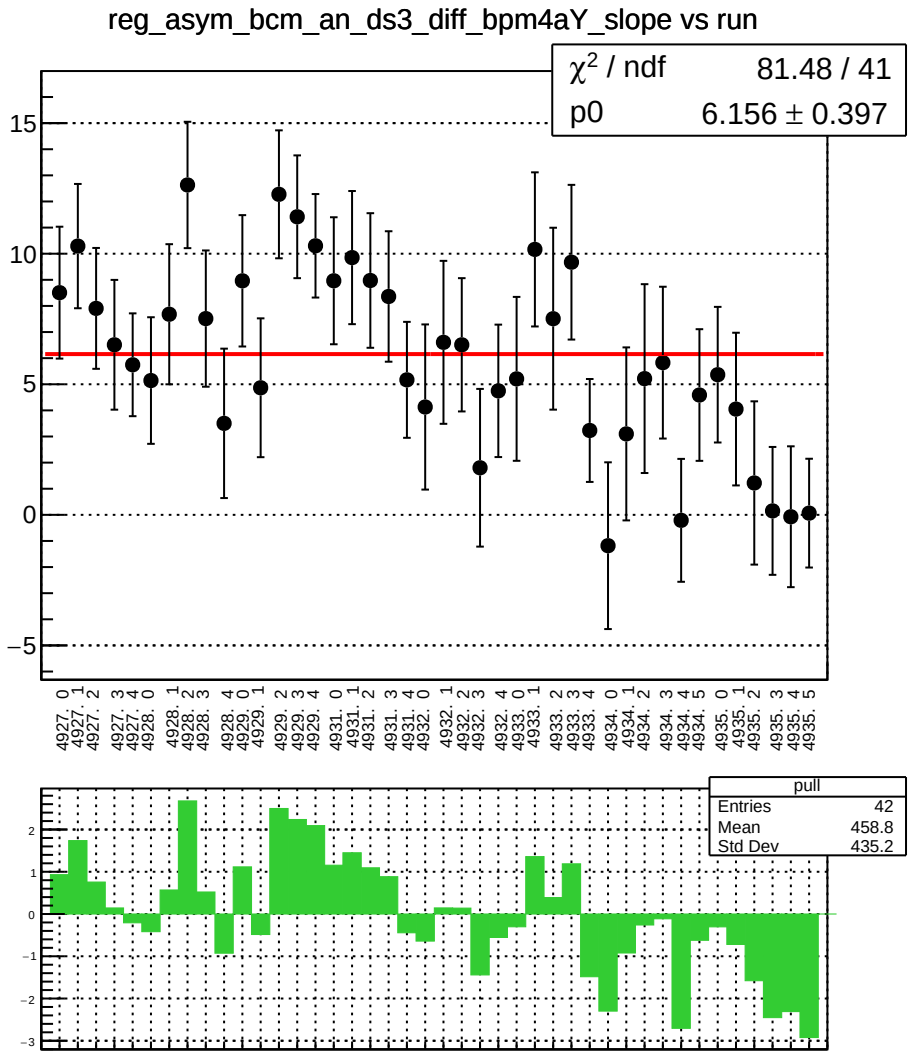

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.33 / 41
p0 −273.7 ± 0.7749
−265
−270
−275
−280
−285
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 438.5
Std Dev 401.2
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean −0.002542
Std Dev 0.584
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

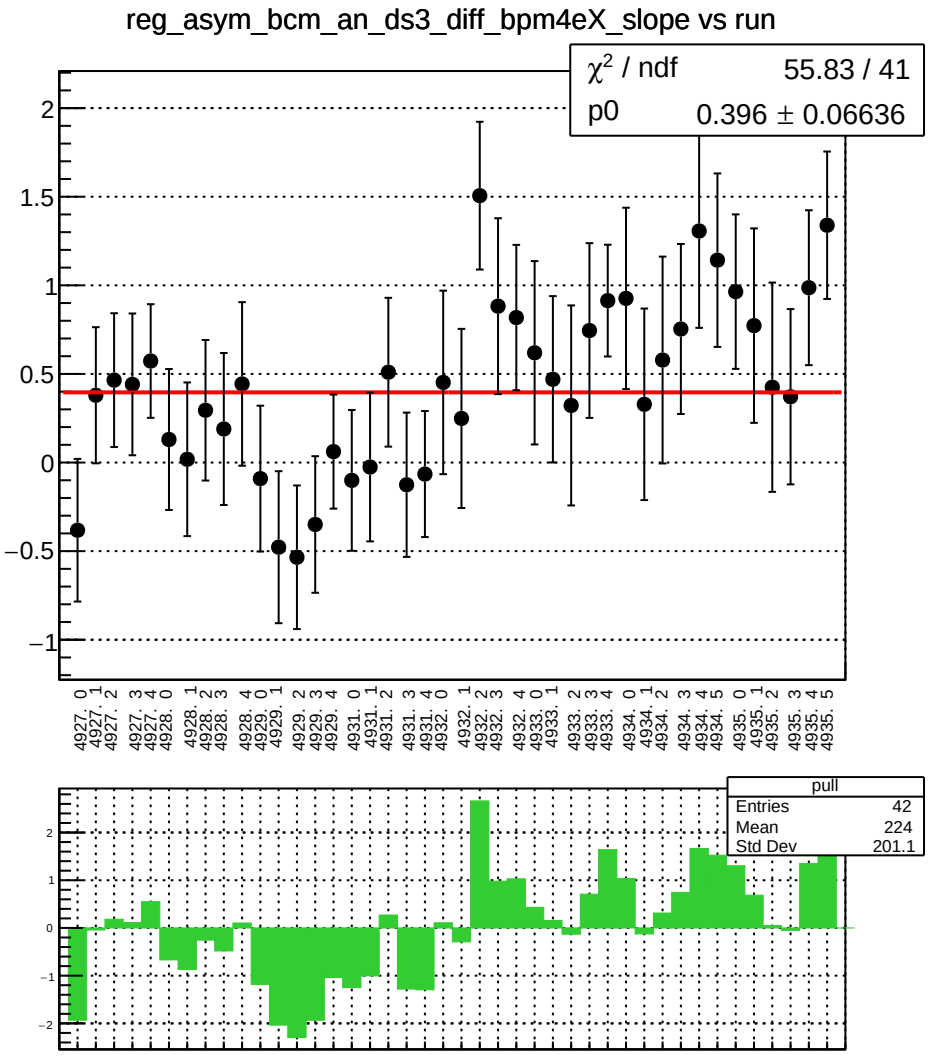

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 492.6 / 41
p0 146.6 ± 5.206
300
200
100
0
−100
−200
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −58.91
Std Dev 82.27
2
0
−2
−4
−6
−8
−10
−12
−14
pull1D
Entries 42
Mean 0.6441
Std Dev 2.646
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

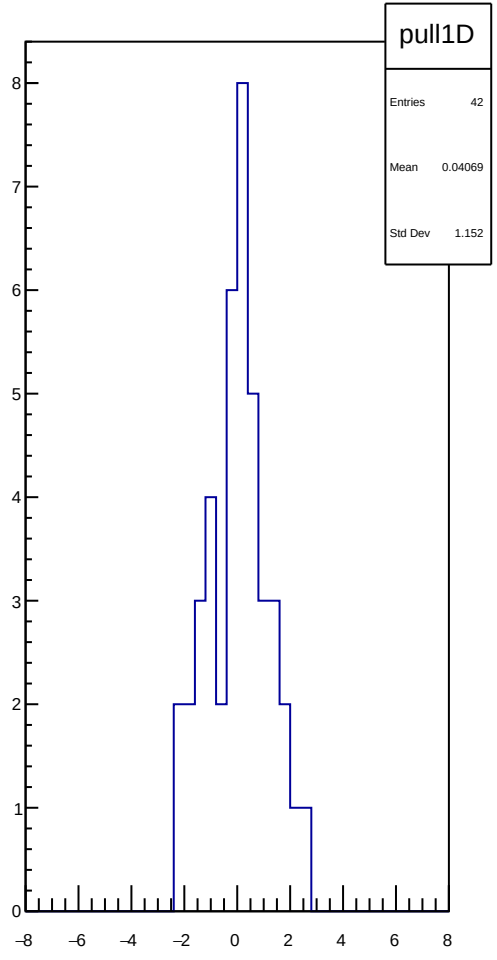

reg_asym_sam_48_dd_diff_bpm11X_slope vs run
χ² / ndf 33.56 / 41
p0 0.5265 ± 1.241
pull
Entries 42
Mean 686.9
Std Dev 662.9

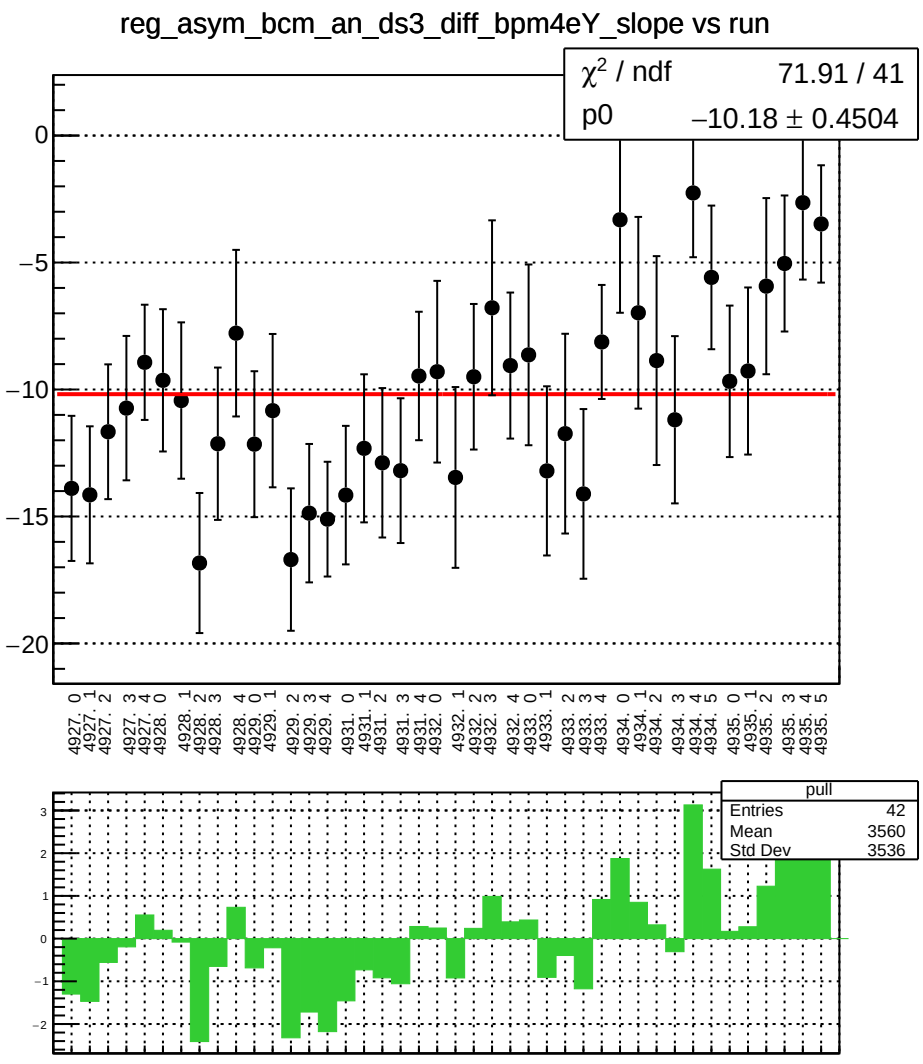

pull1D
Entries 42
Mean −0.009931
Std Dev 0.8938

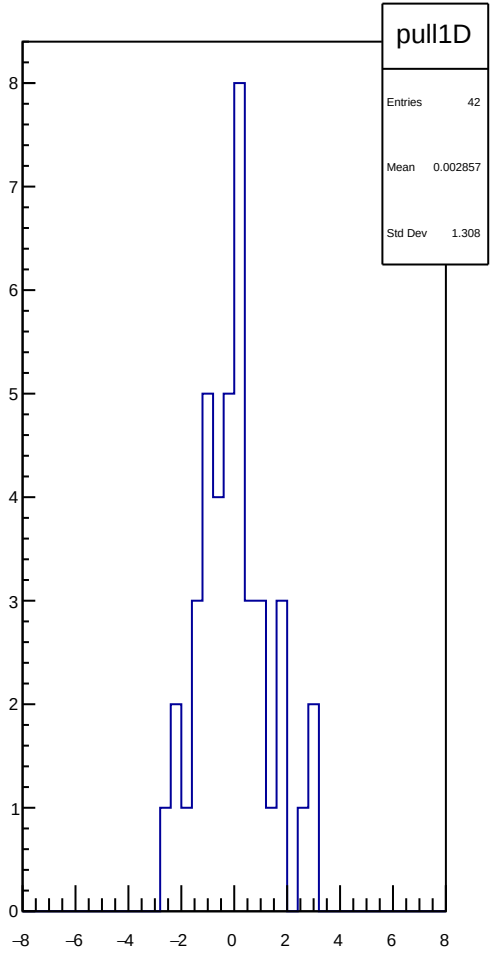

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 47.79 / 41
p0 −1.167 ± 0.3136
pull
Entries 42
Mean 171.8
Std Dev 149.4
pull1D
Entries 42
Mean −0.03425
Std Dev 1.066

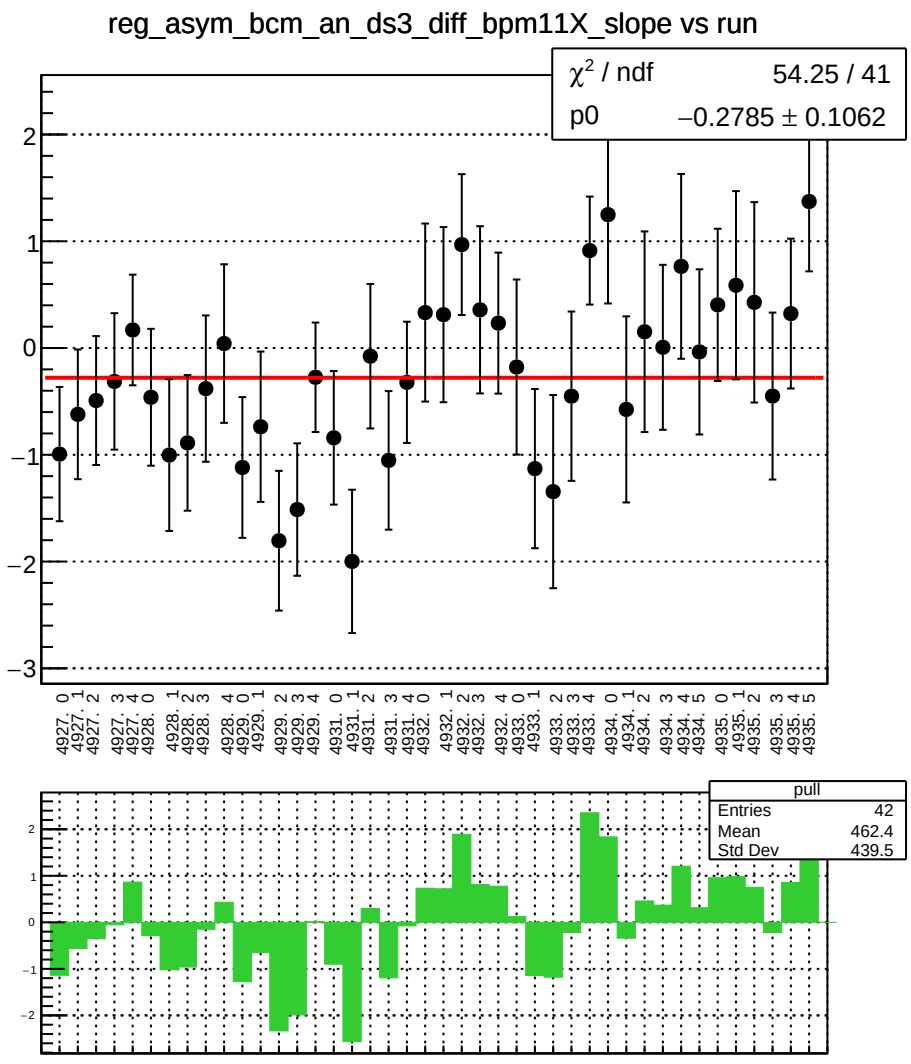

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 81.48 / 41
p0 6.156 ± 0.397
15
10
5
0
−5
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 458.8
Std Dev 435.2
2
1
0
−1
−2
−3
pull1D
Entries 42
Mean −0.02462
Std Dev 1.393
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

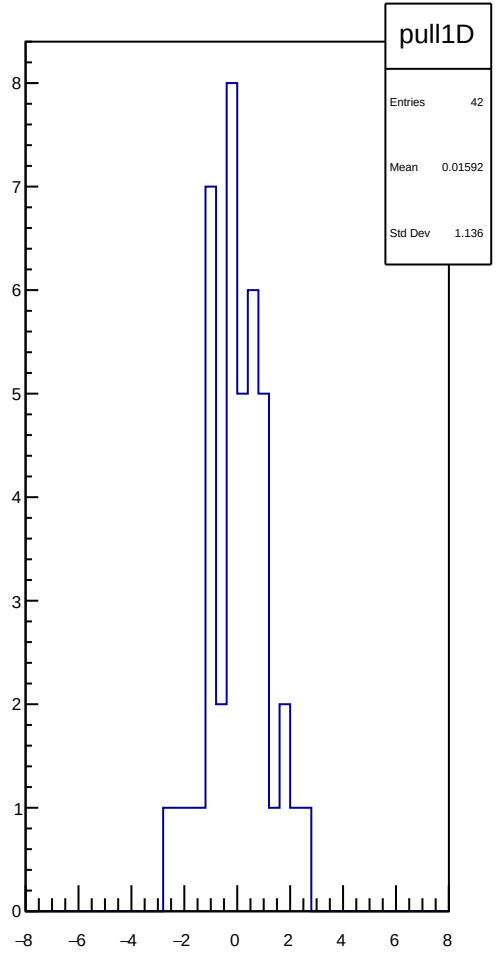

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 55.83 / 41
p0 0.396 ± 0.06636
pull
Entries 42
Mean 224
Std Dev 201.1

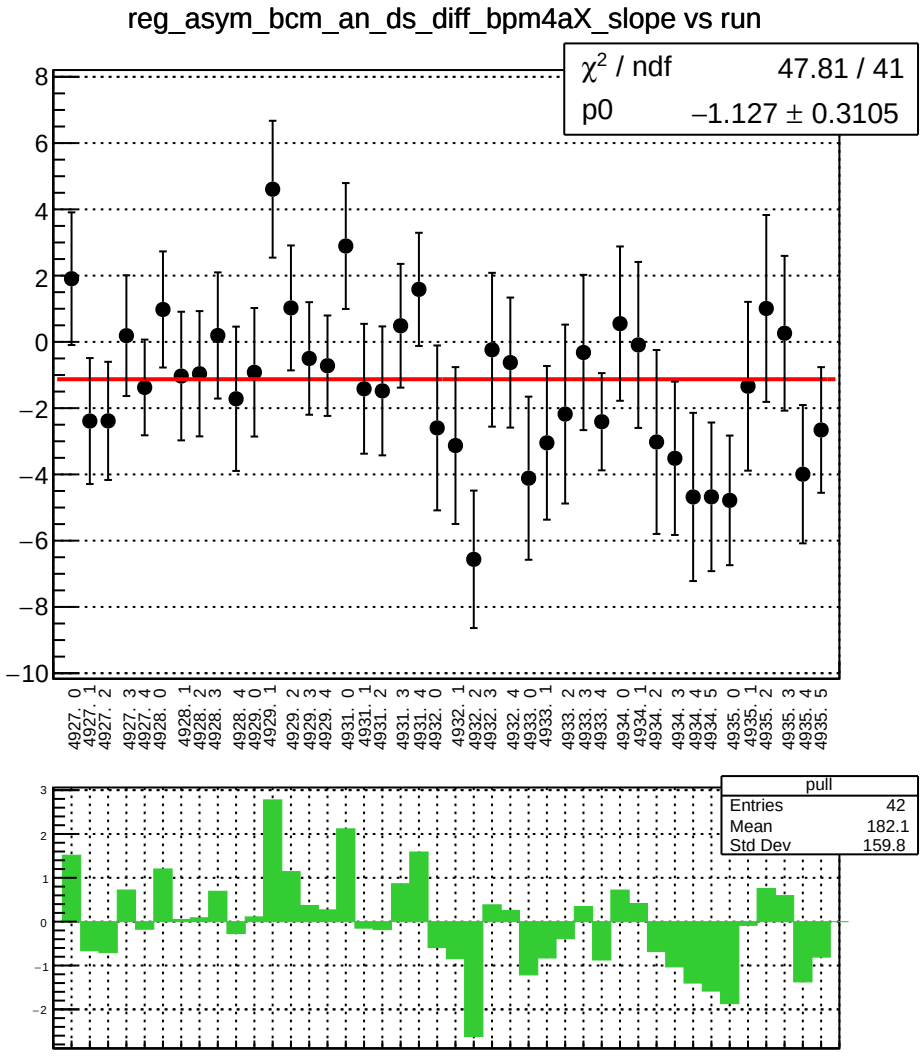

pull1D
Entries 42
Mean 0.04069
Std Dev 1.152

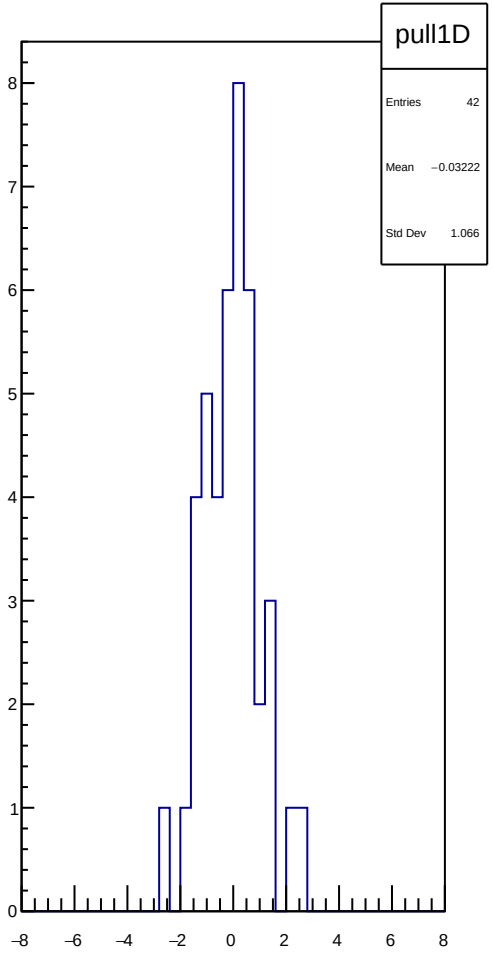

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 71.91 / 41
p0 −10.18 ± 0.4504
pull
Entries 42
Mean 3560
Std Dev 3536

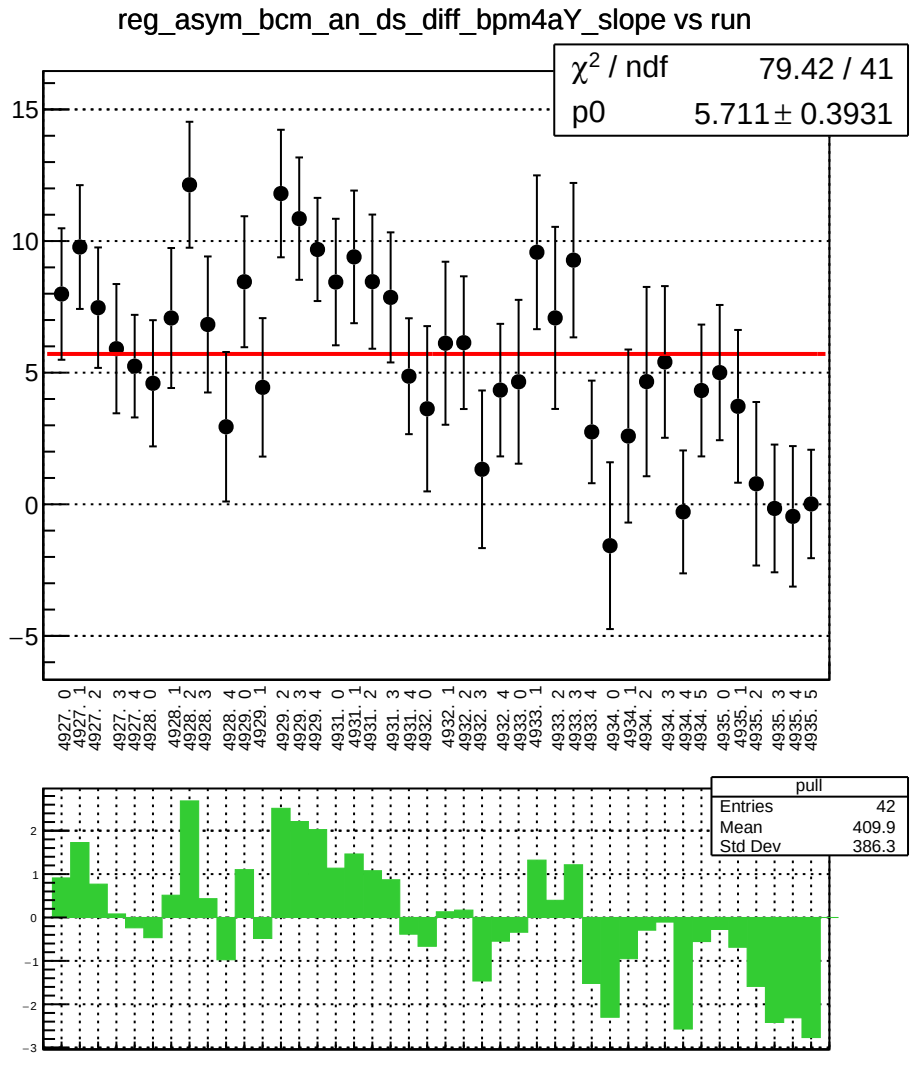

pull1D
Entries 42
Mean 0.002857
Std Dev 1.308

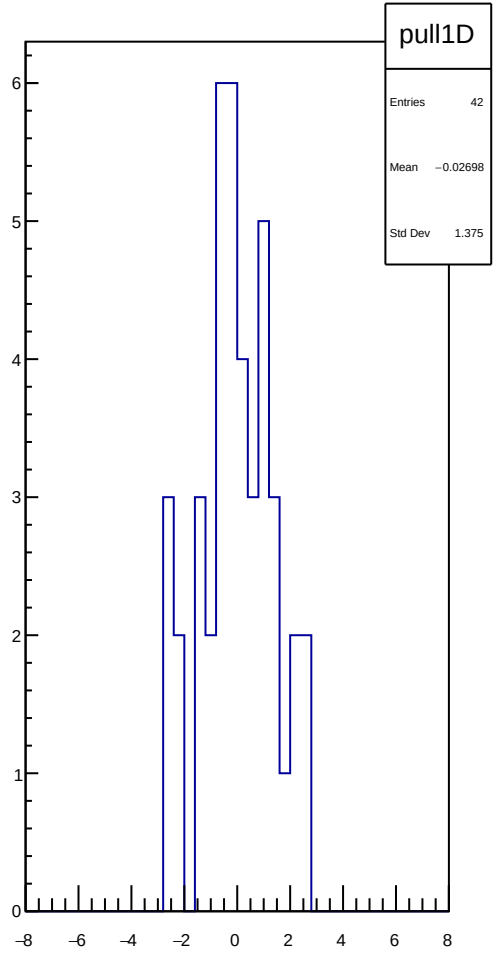

reg_asym_bcm_an_ds3_diff_bpm11X_slope vs run
χ² / ndf 54.25 / 41
p0 −0.2785 ± 0.1062
pull
Entries 42
Mean 462.4
Std Dev 439.5

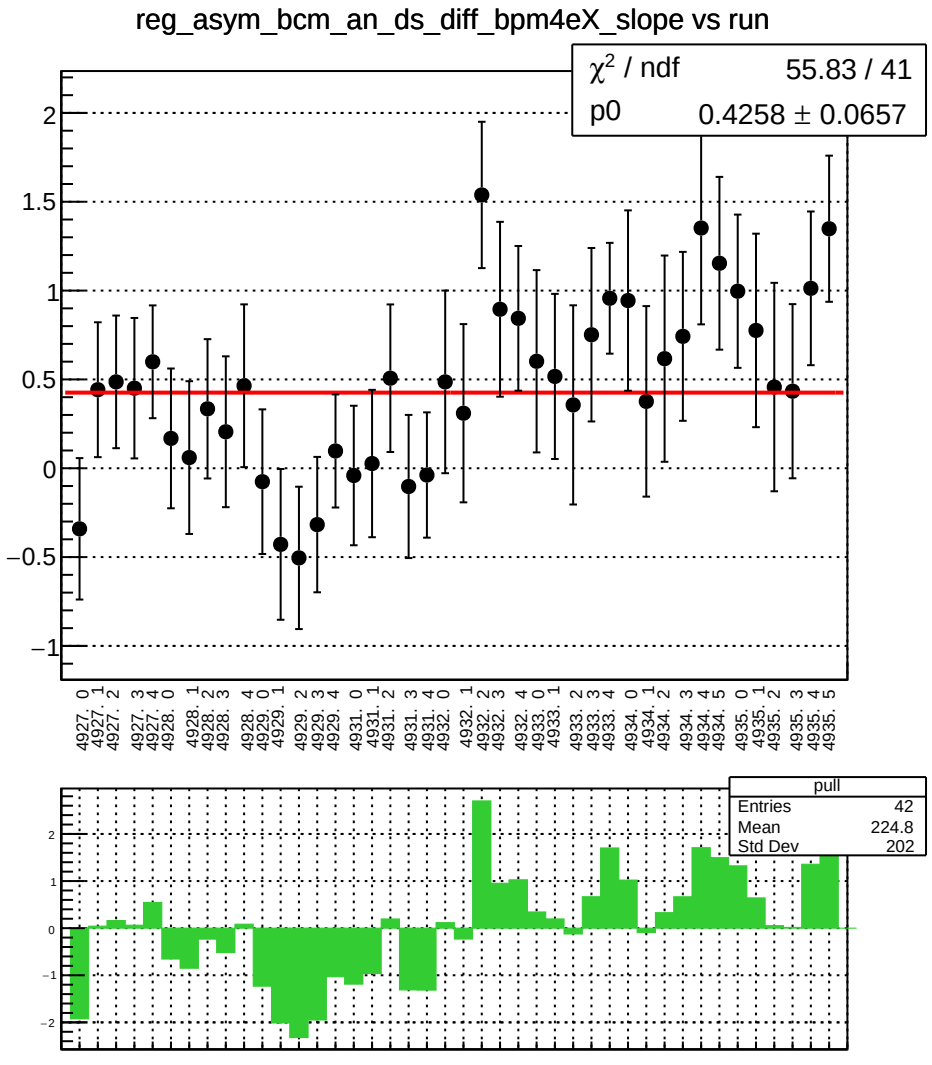

pull1D
Entries 42
Mean 0.01592
Std Dev 1.136

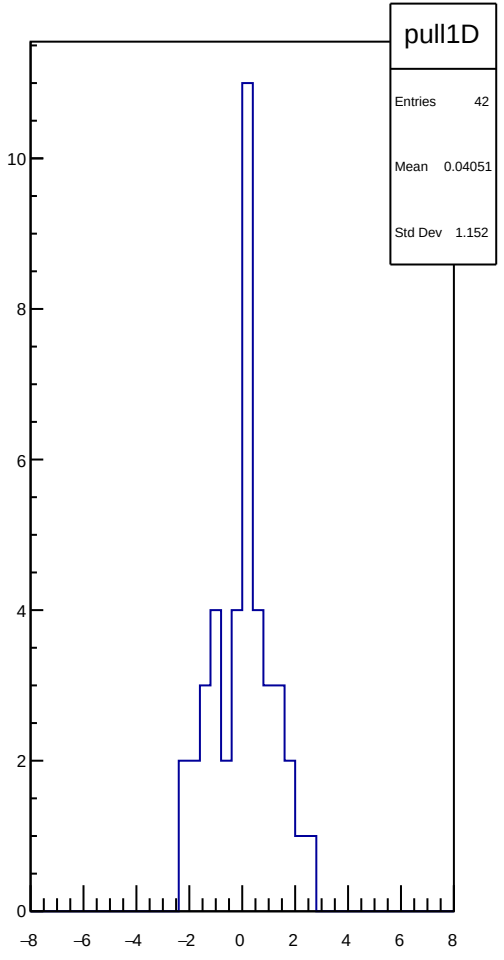

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 47.81 / 41
p0 −1.127 ± 0.3105
pull
Entries 42
Mean 182.1
Std Dev 159.8

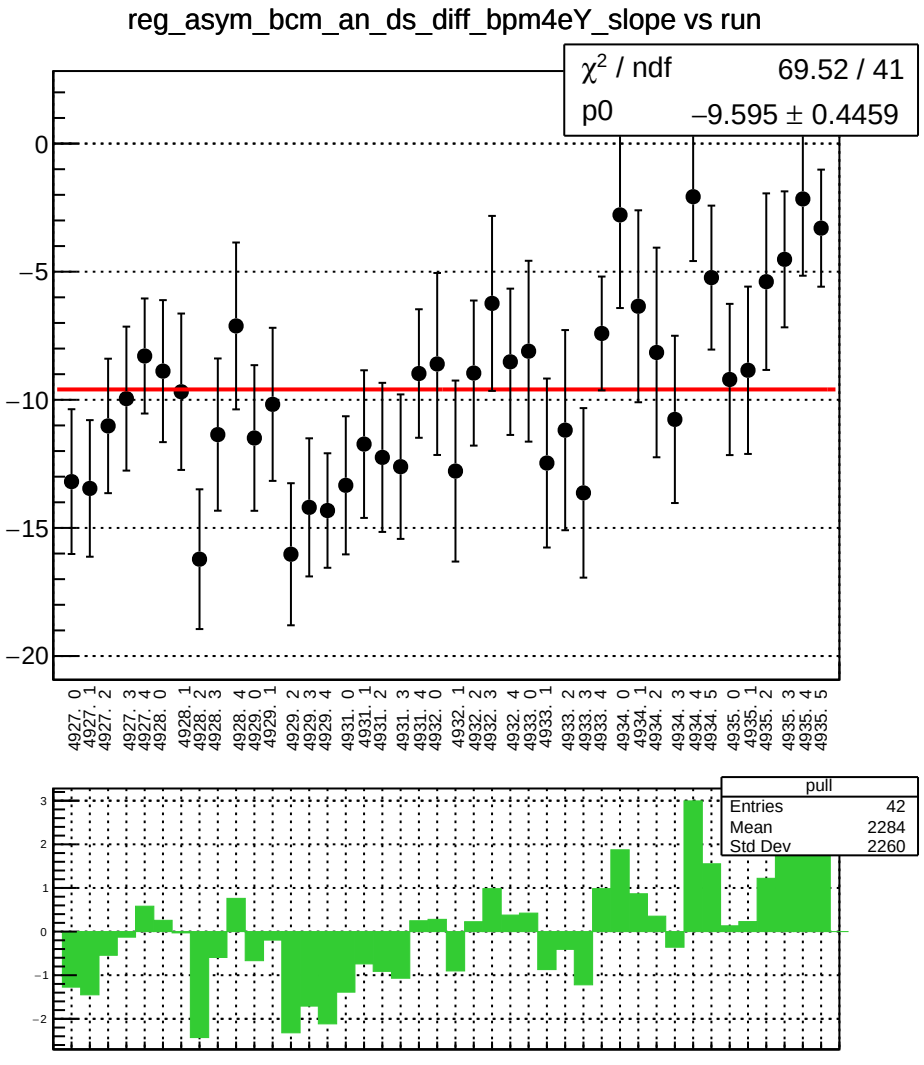

pull1D
Entries 42
Mean −0.03222
Std Dev 1.066

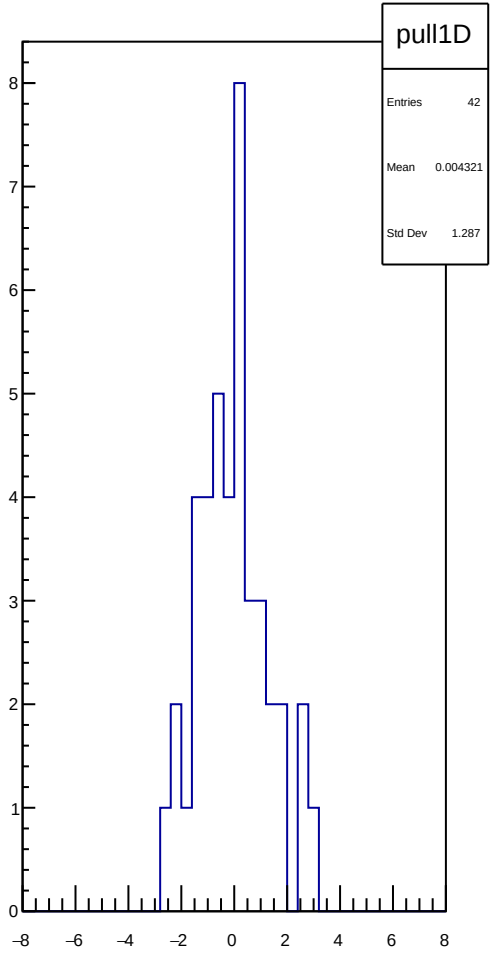

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 79.42 / 41
p0 5.711 ± 0.3931
pull
Entries 42
Mean 409.9
Std Dev 386.3

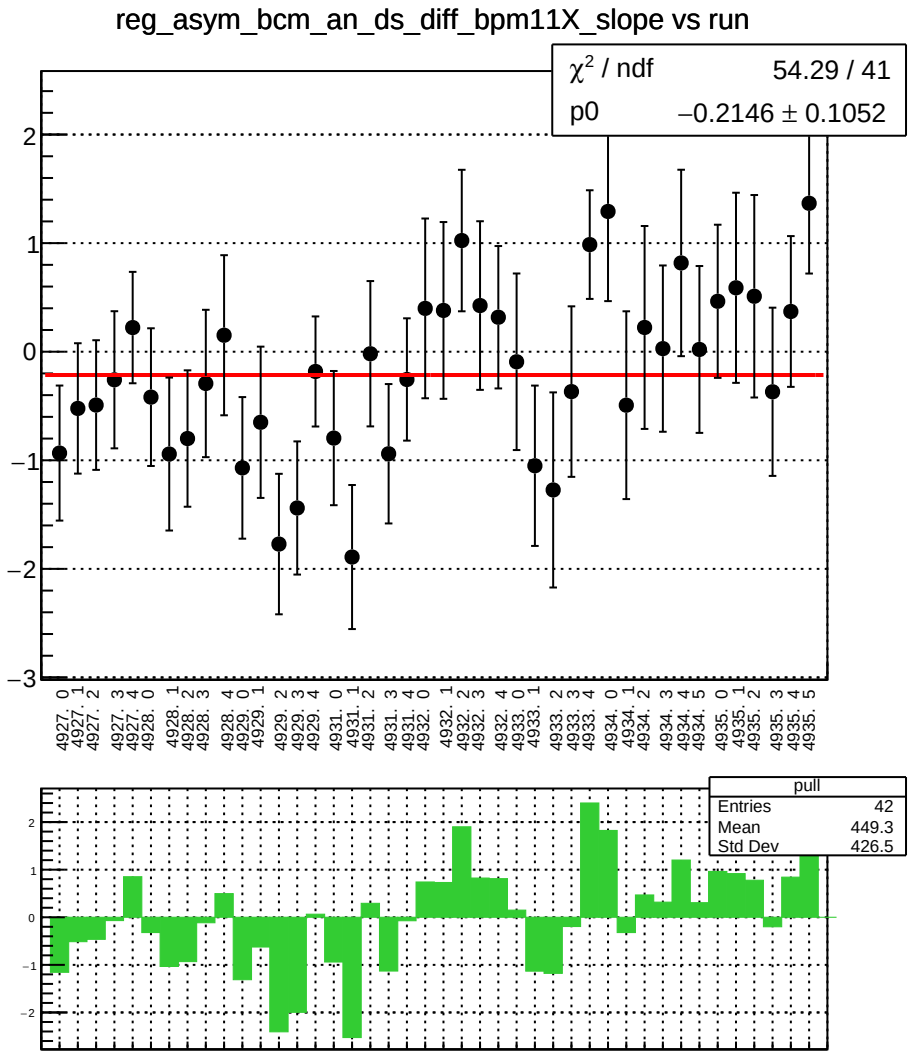

pull1D
Entries 42
Mean −0.02698
Std Dev 1.375

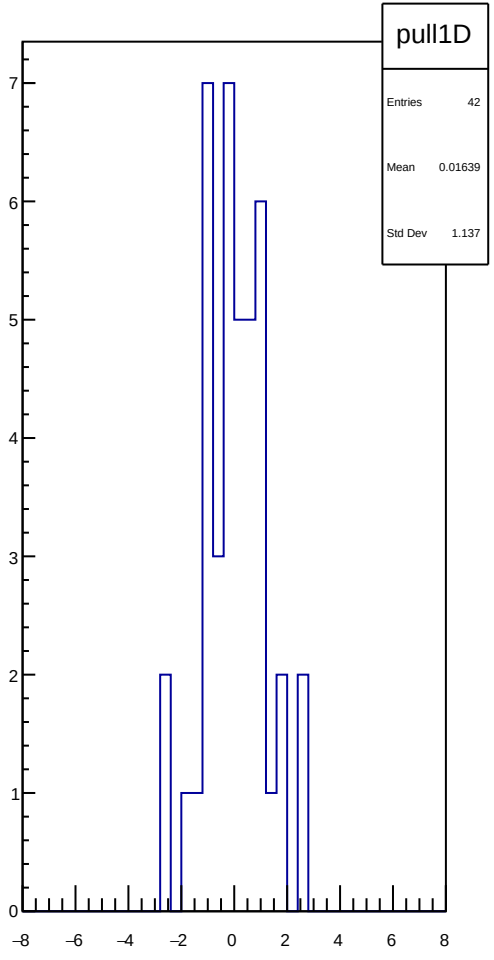

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 55.83 / 41
p0 0.4258 ± 0.0657
pull
Entries 42
Mean 224.8
Std Dev 202

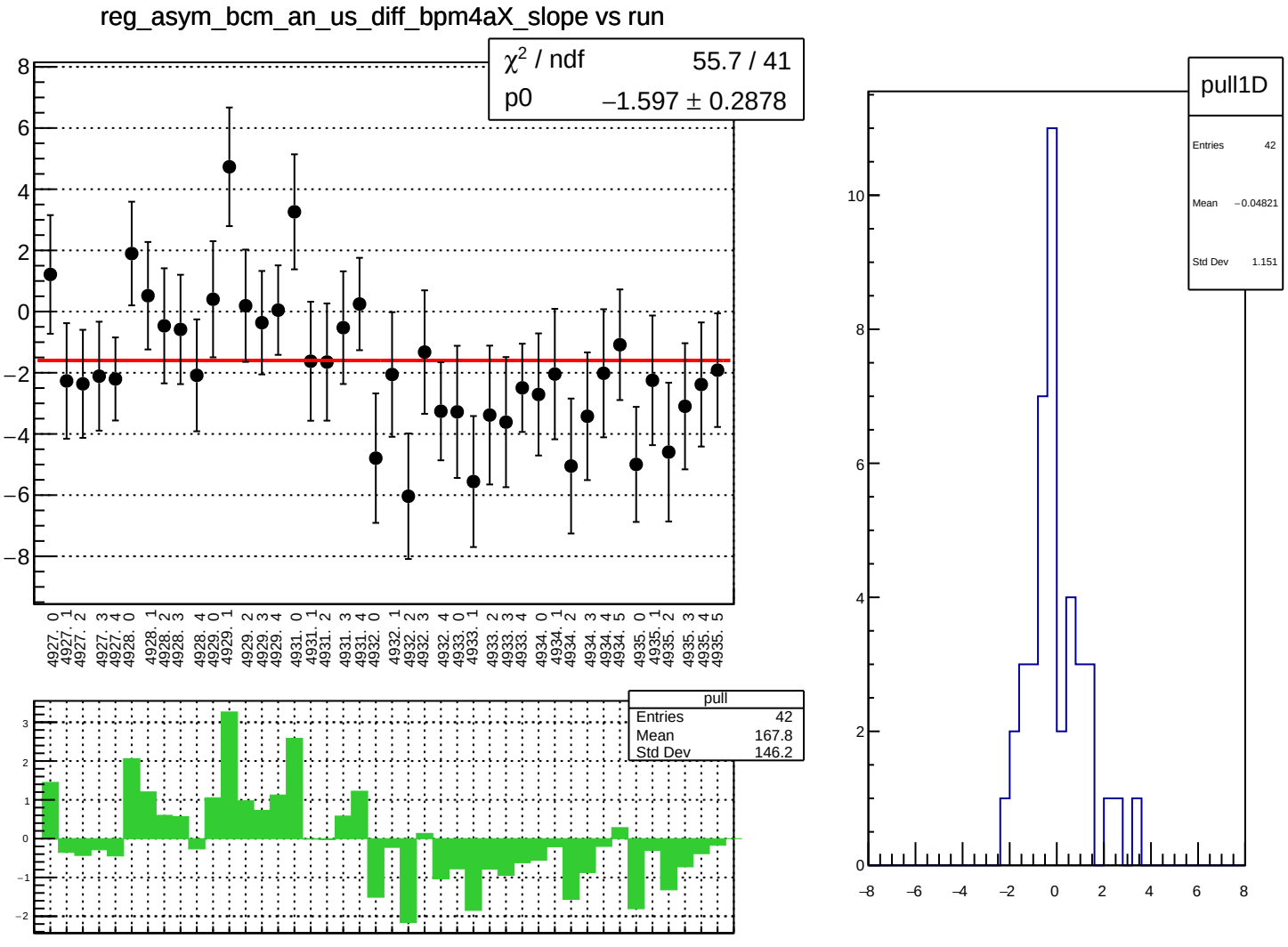

pull1D
Entries 42
Mean 0.04051
Std Dev 1.152

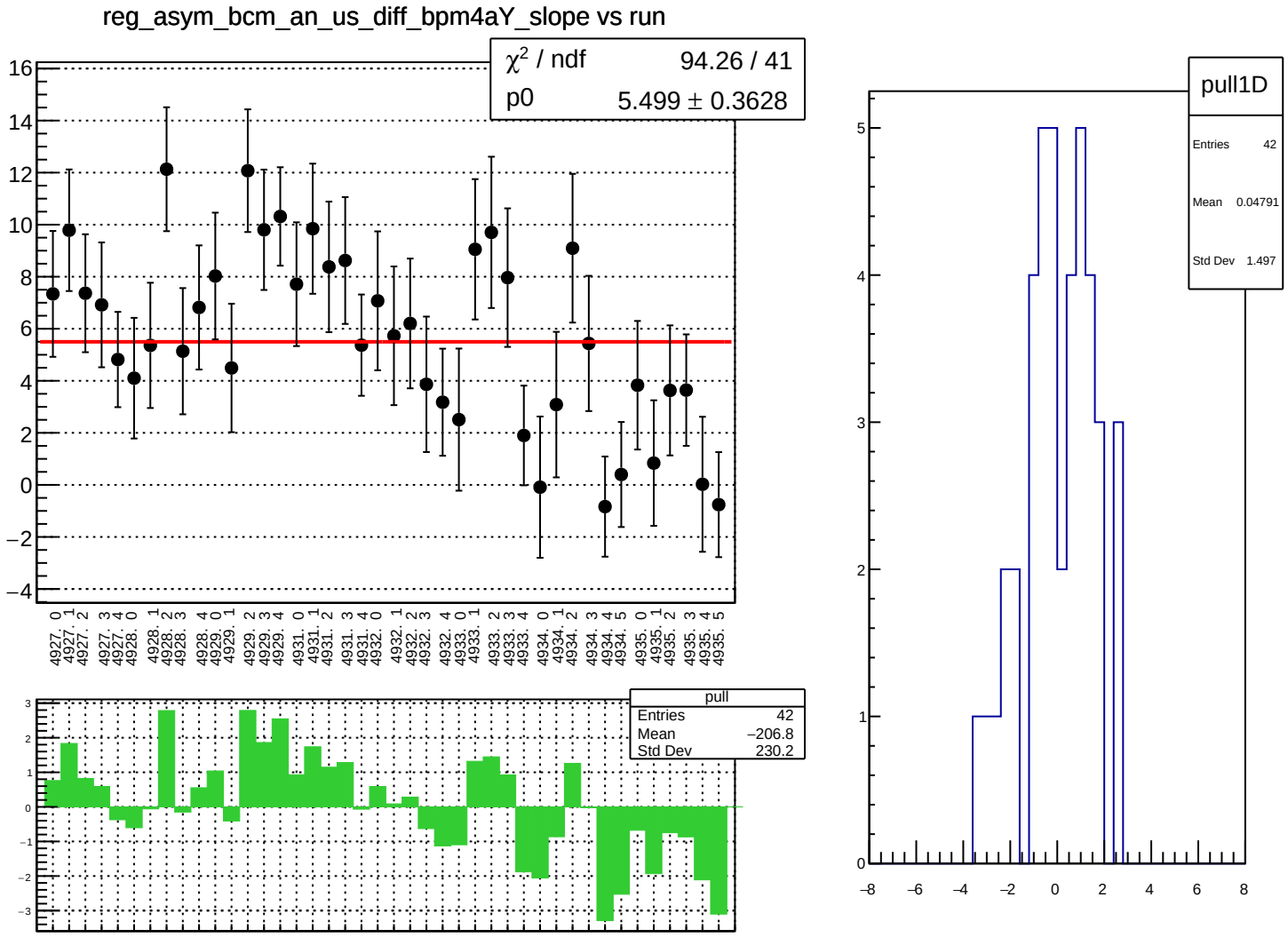

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 69.52 / 41
p0 −9.595 ± 0.4459
pull
Entries 42
Mean 2284
Std Dev 2260

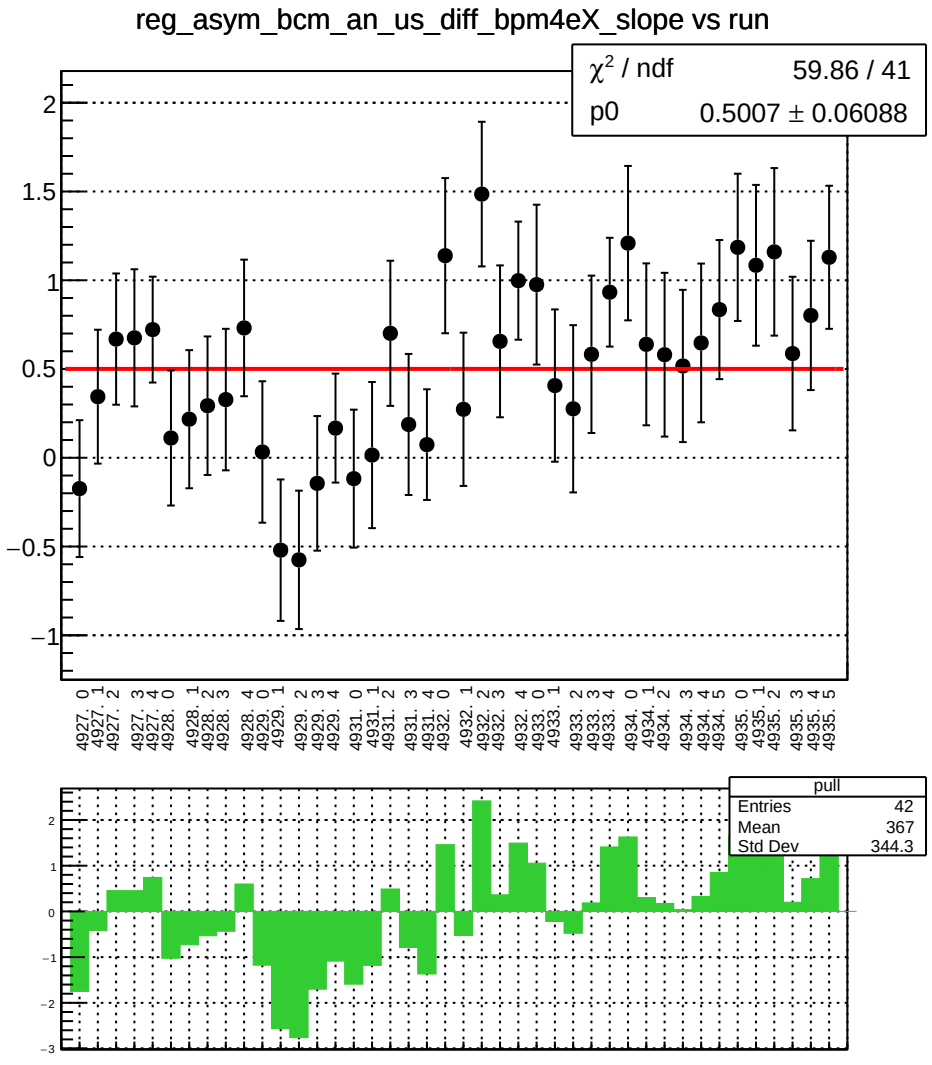

pull1D
Entries 42
Mean 0.004321
Std Dev 1.287

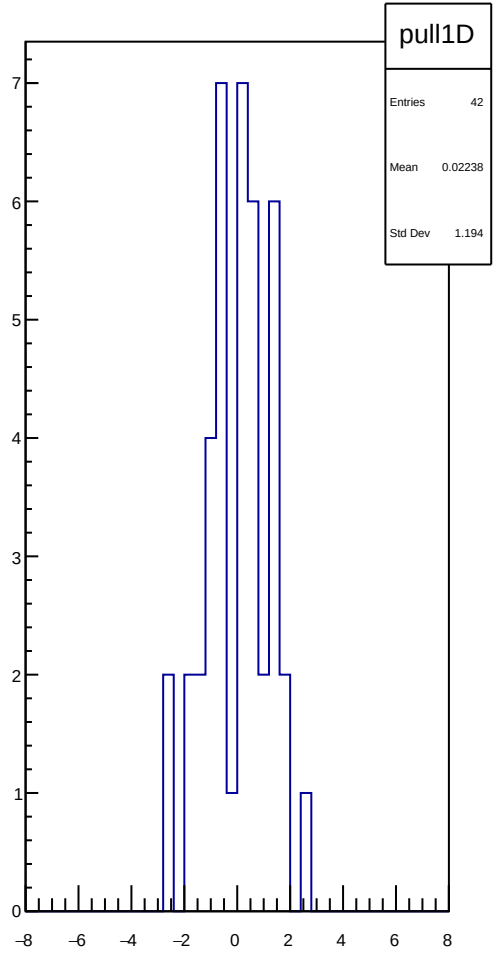

reg_asym_bcm_an_ds_diff_bpm11X_slope vs run
χ² / ndf 54.29 / 41
p0 −0.2146 ± 0.1052
pull
Entries 42
Mean 449.3
Std Dev 426.5

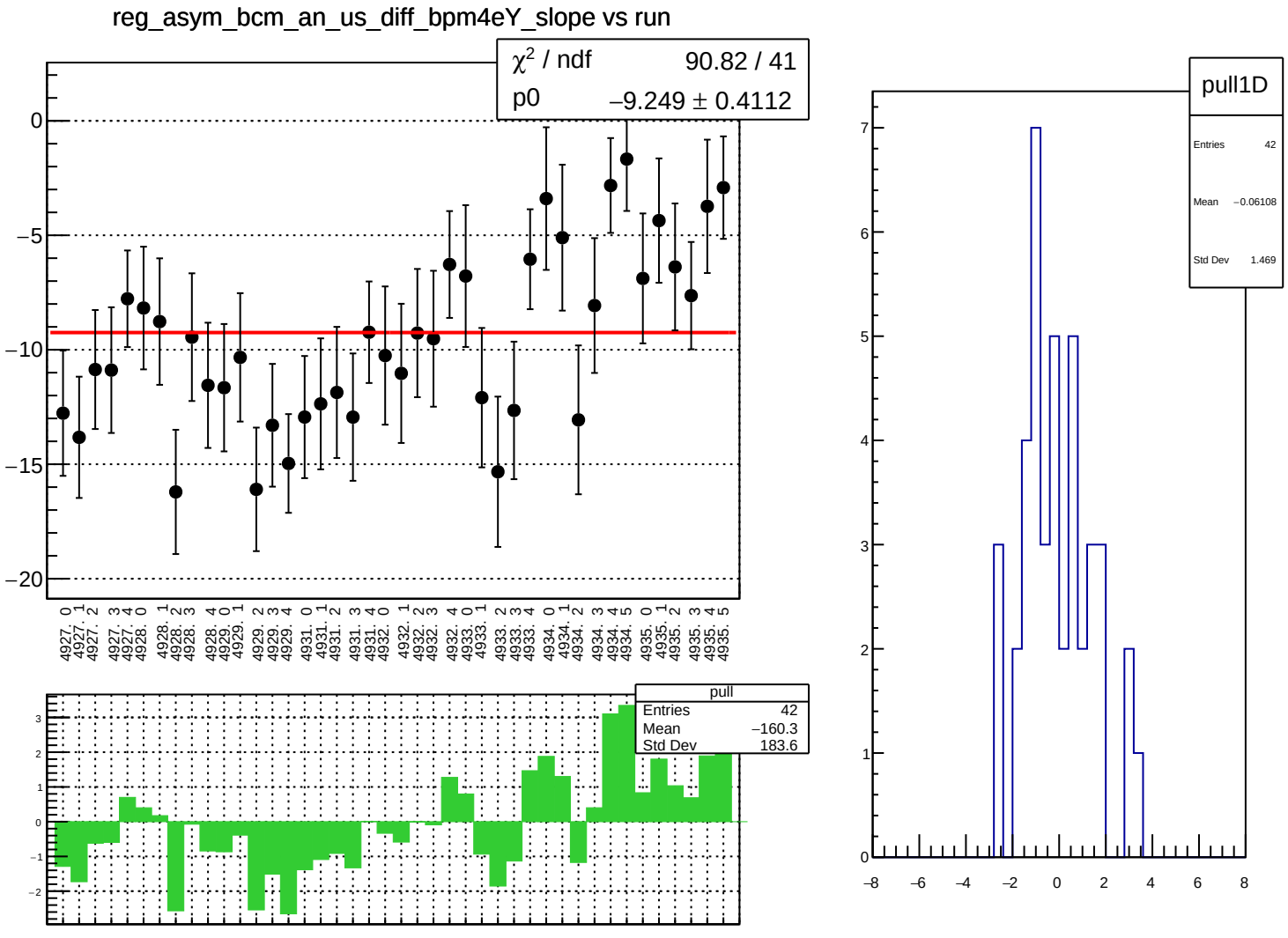

pull1D
Entries 42
Mean 0.01639
Std Dev 1.137

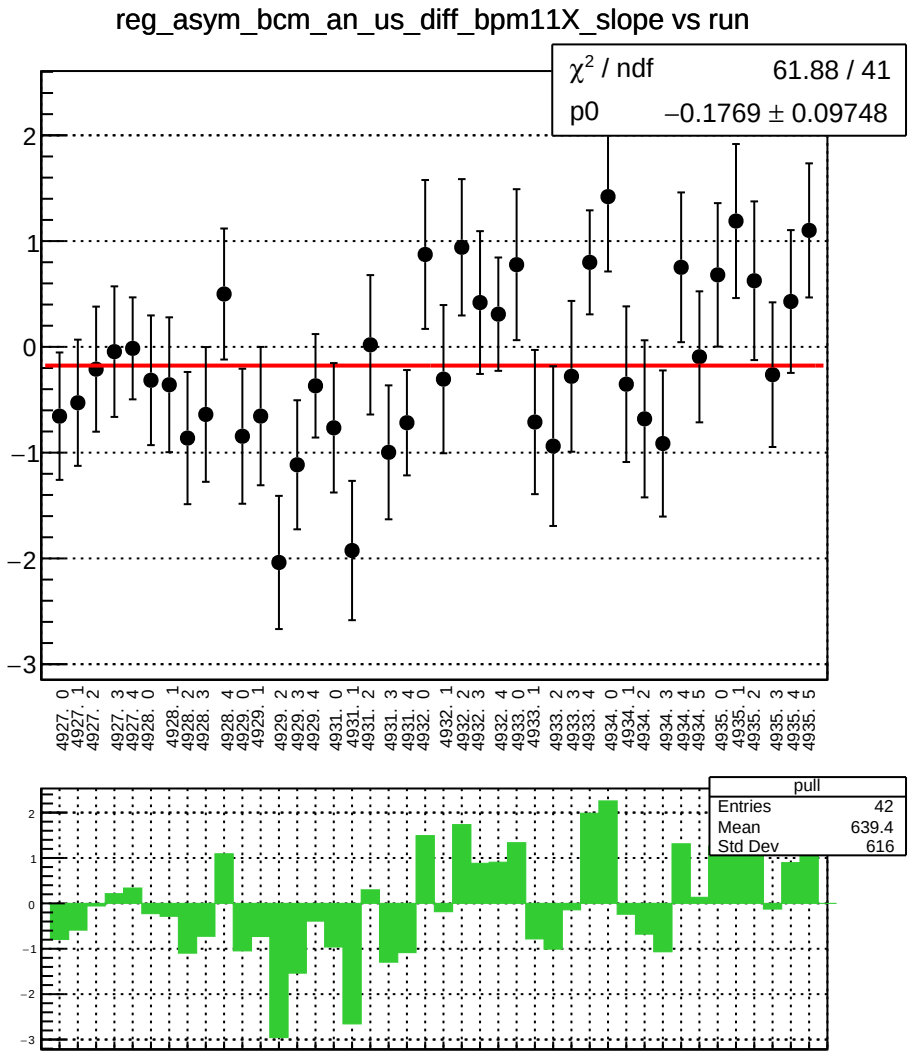

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 55.7 / 41
p0 −1.597 ± 0.2878
pull
Entries 42
Mean 167.8
Std Dev 146.2
pull1D
Entries 42
Mean −0.04821
Std Dev 1.151

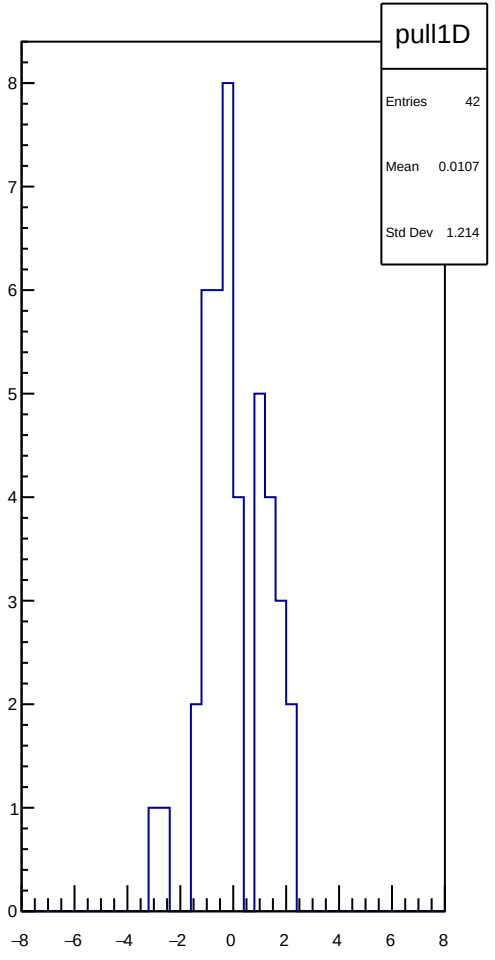

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 94.26 / 41
p0 5.499 ± 0.3628
pull
Entries 42
Mean −206.8
Std Dev 230.2
pull1D
Entries 42
Mean 0.04791
Std Dev 1.497

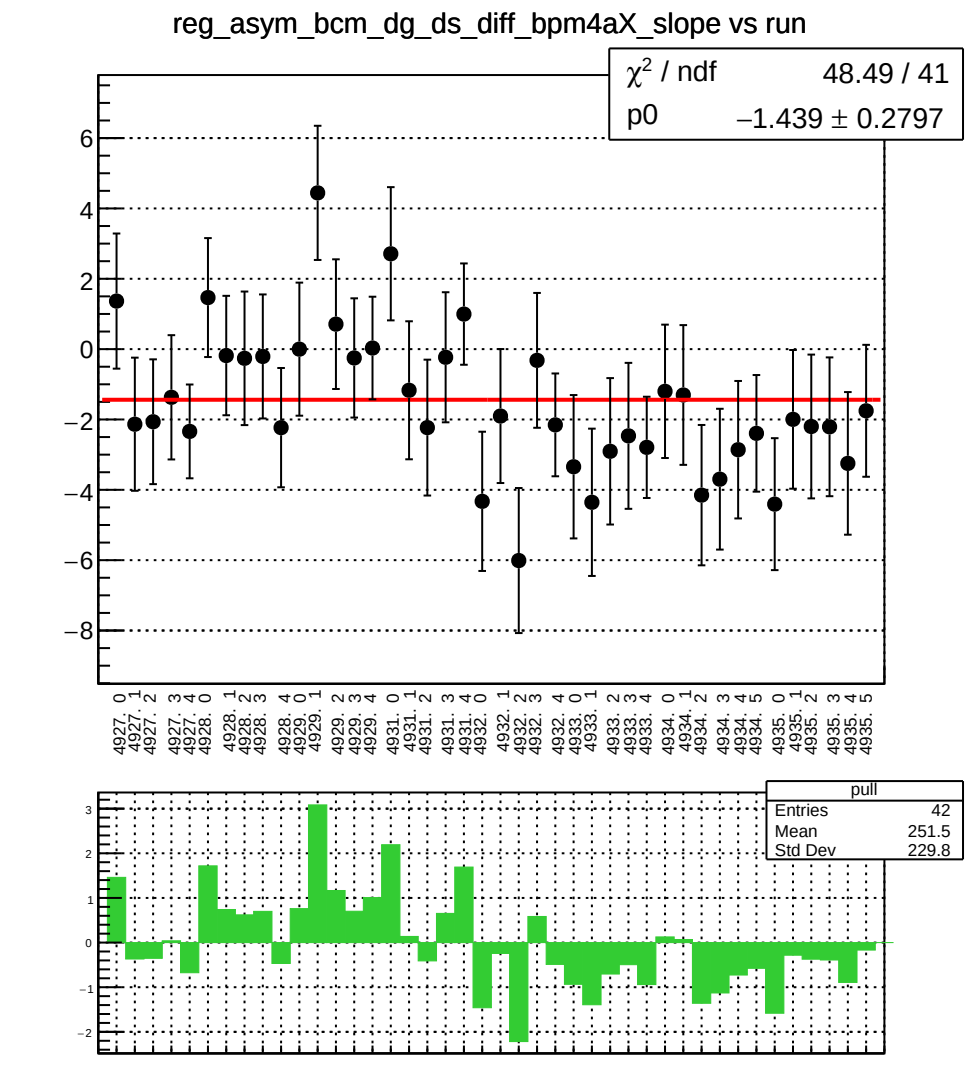

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 59.86 / 41
p0 0.5007 ± 0.06088
pull
Entries 42
Mean 367
Std Dev 344.3

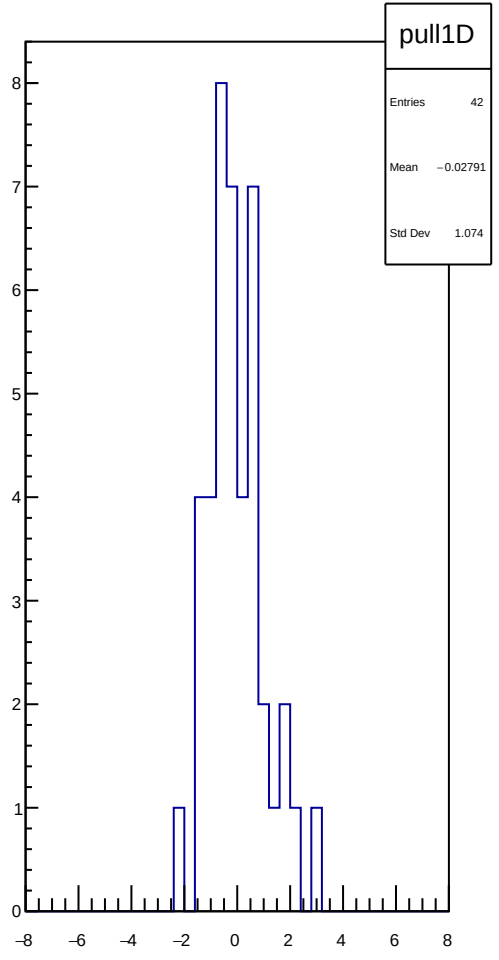

pull1D
Entries 42
Mean 0.02238
Std Dev 1.194

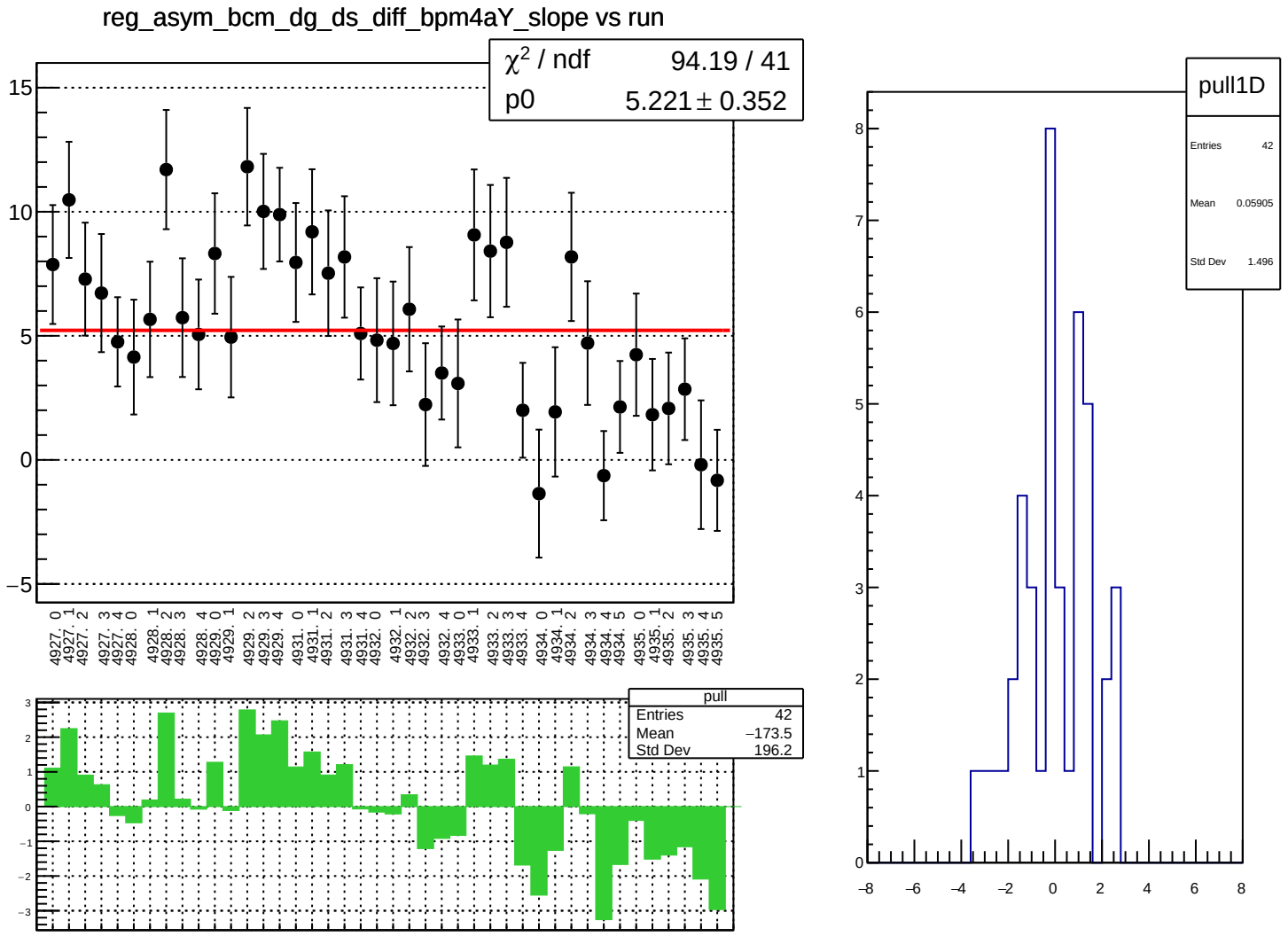

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 90.82 / 41
p0 −9.249 ± 0.4112
pull
Entries 42
Mean −160.3
Std Dev 183.6
pull1D
Entries 42
Mean −0.06108
Std Dev 1.469

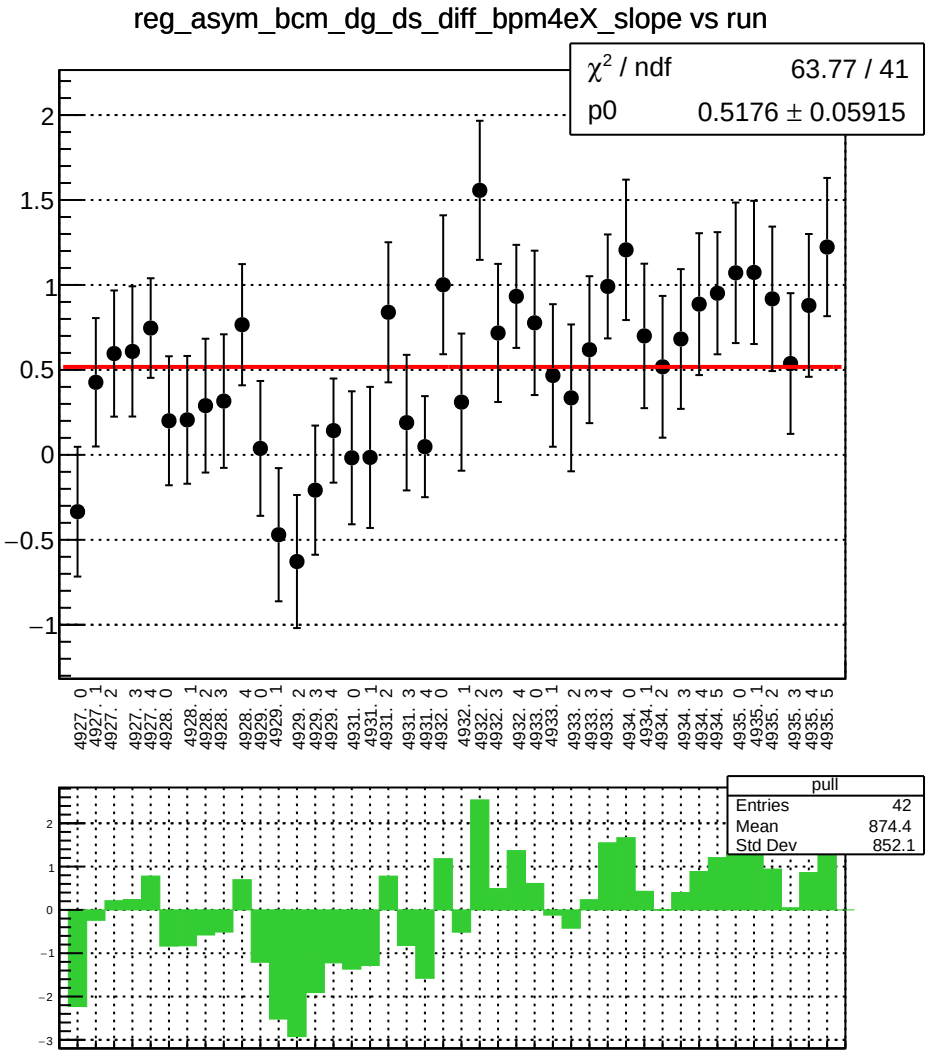

reg_asym_bcm_an_us_diff_bpm11X_slope vs run
χ² / ndf 61.88 / 41
p0 −0.1769 ± 0.09748
pull
Entries 42
Mean 639.4
Std Dev 616

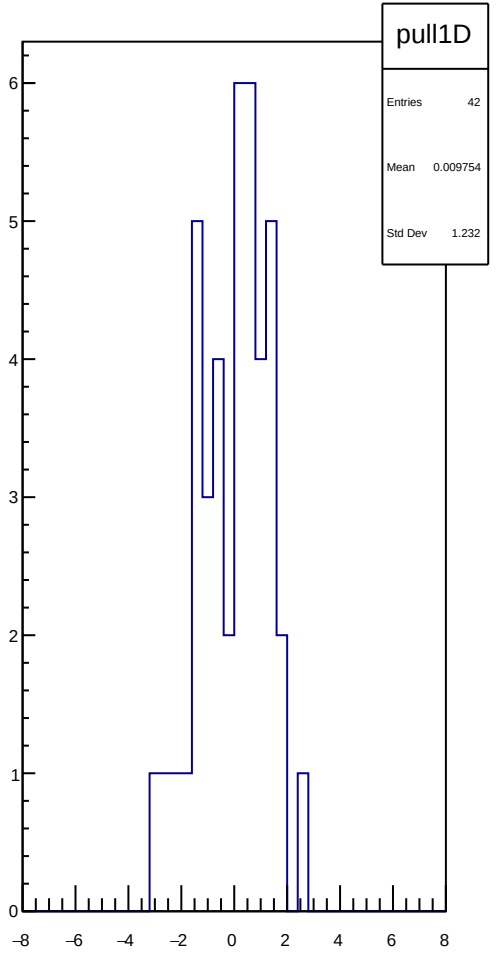

pull1D
Entries 42
Mean 0.0107
Std Dev 1.214

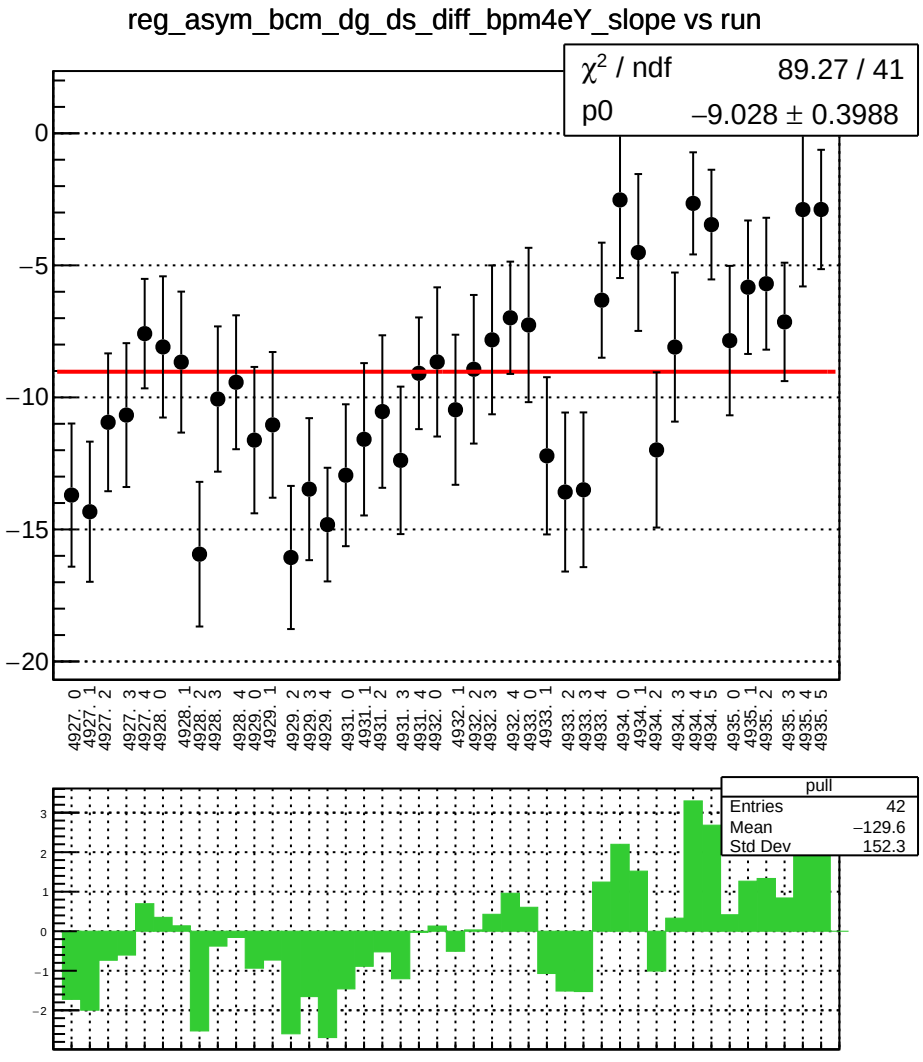

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 48.49 / 41
p0 −1.439 ± 0.2797
pull
Entries 42
Mean 251.5
Std Dev 229.8

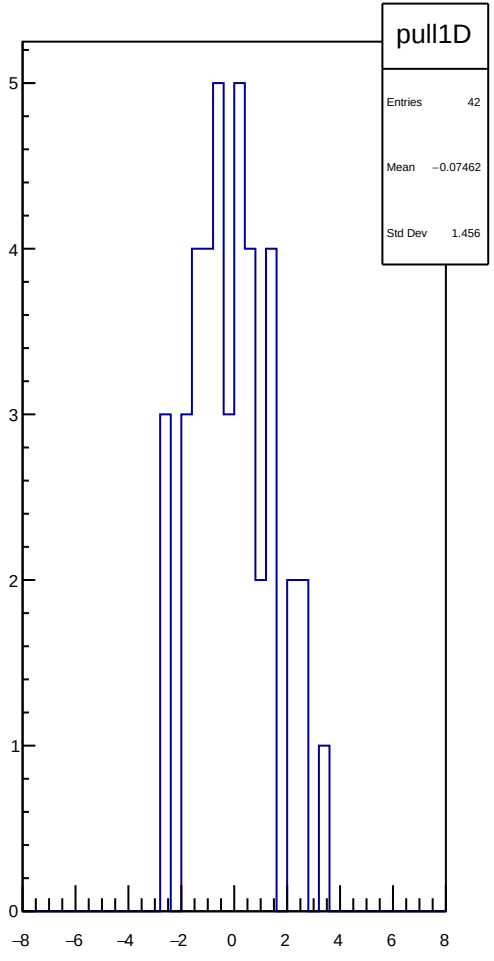

pull1D
Entries 42
Mean −0.02791
Std Dev 1.074

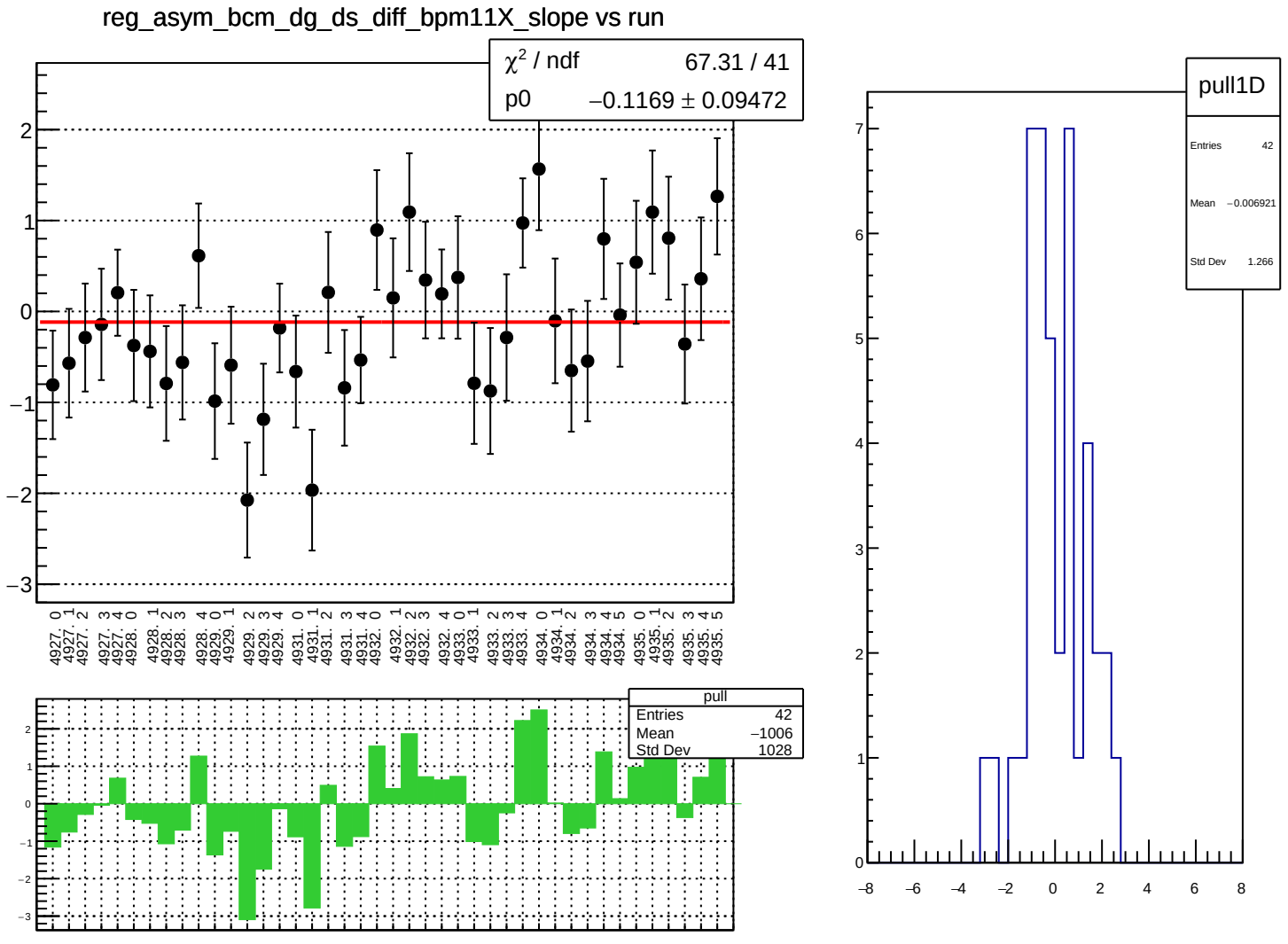

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 94.19 / 41
p0 5.221 ± 0.352
15
10
5
0
−5
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −173.5
Std Dev 196.2
3
2
1
0
−1
−2
−3
pull1D
Entries 42
Mean 0.05905
Std Dev 1.496
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

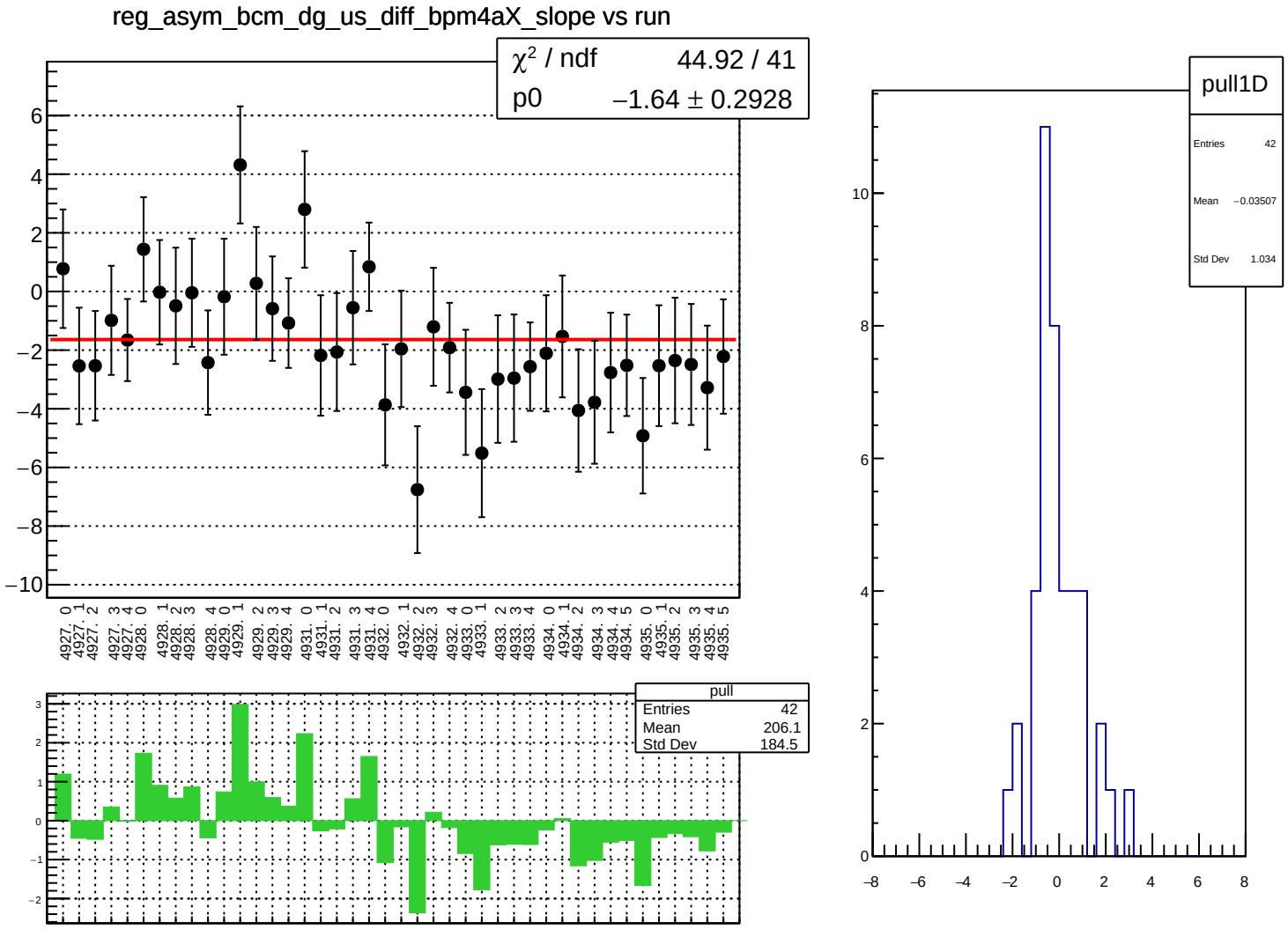

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 63.77 / 41
p0 0.5176 ± 0.05915
pull
Entries 42
Mean 874.4
Std Dev 852.1

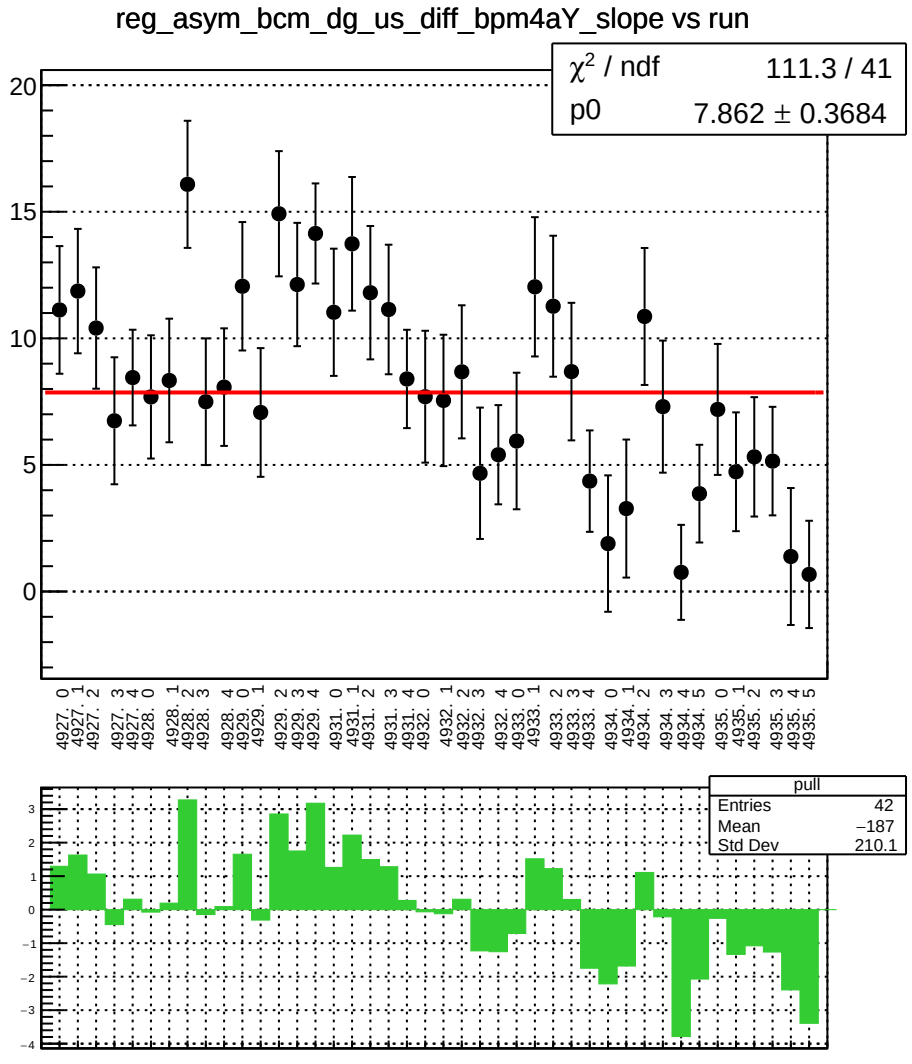

pull1D
Entries 42
Mean 0.009754
Std Dev 1.232

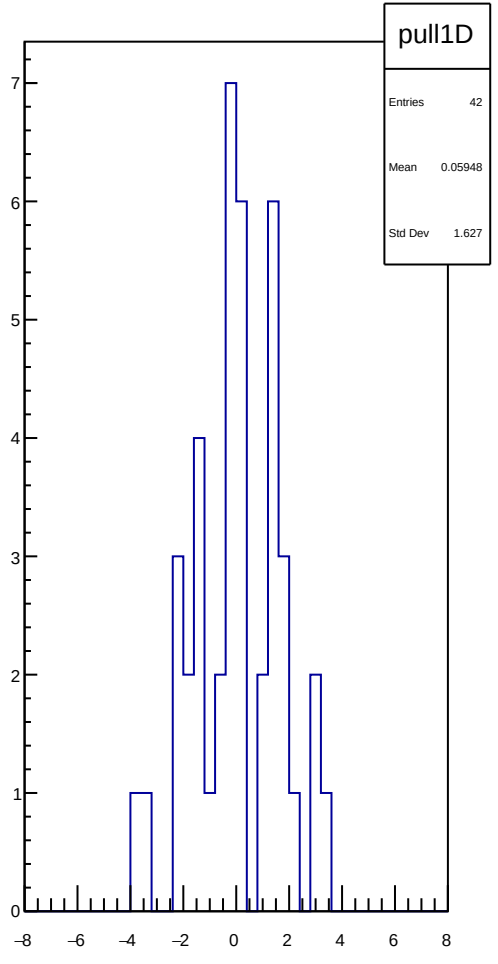

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 89.27 / 41
p0 −9.028 ± 0.3988
pull
Entries 42
Mean −129.6
Std Dev 152.3

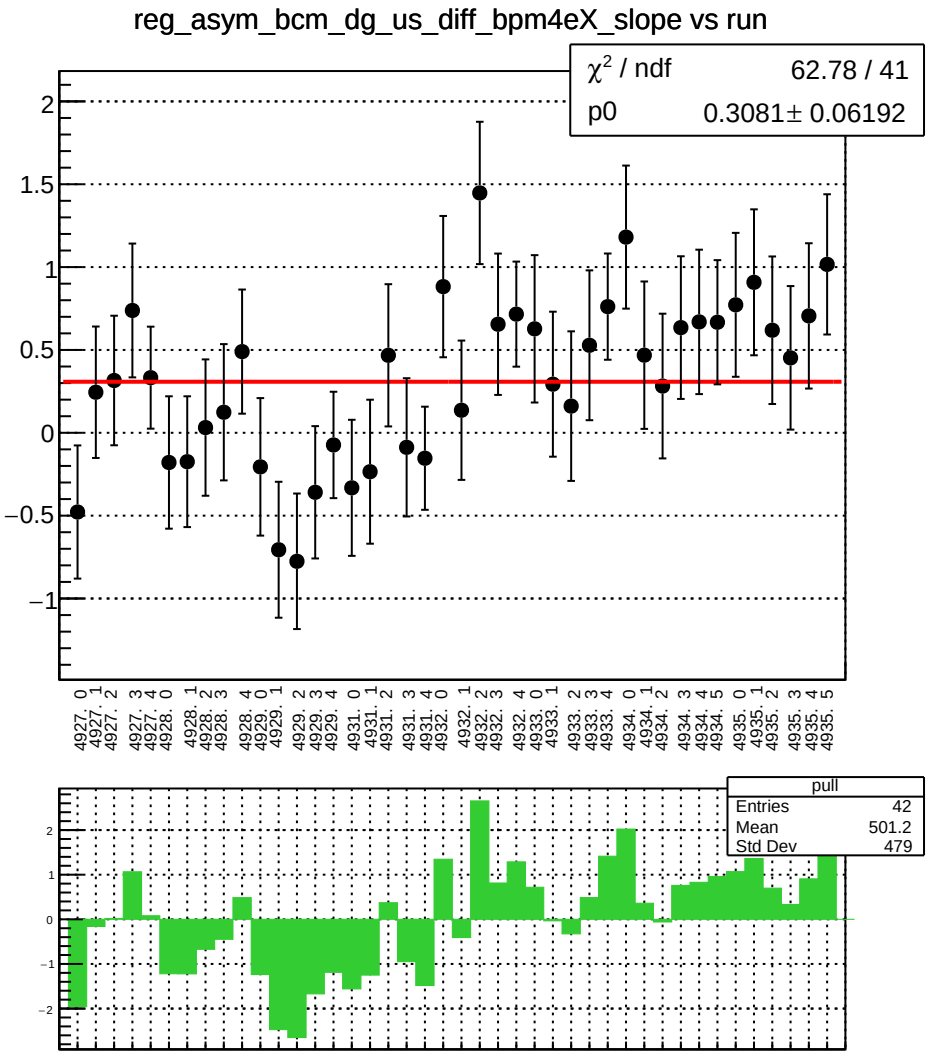

pull1D
Entries 42
Mean −0.07462
Std Dev 1.456

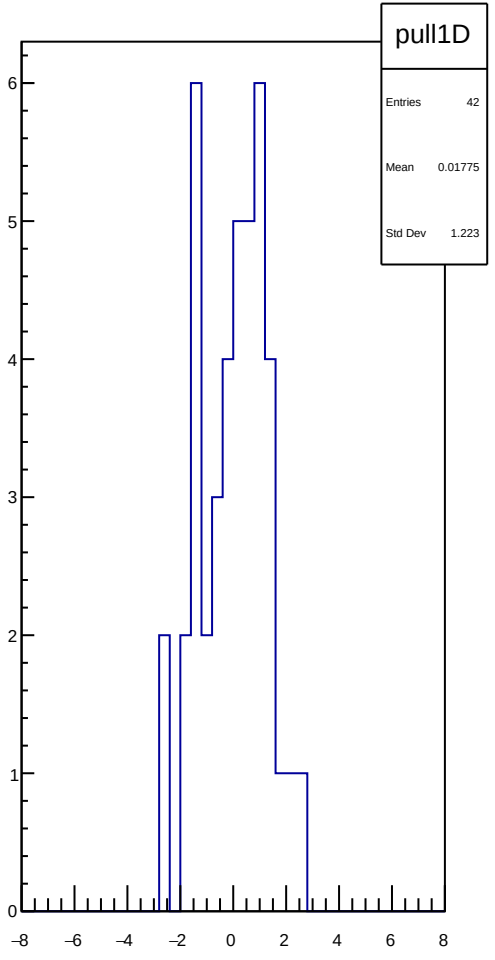

reg_asym_bcm_dg_ds_diff_bpm11X_slope vs run
χ² / ndf 67.31 / 41
p0 −0.1169 ± 0.09472
pull
Entries 42
Mean −1006
Std Dev 1028
pull1D
Entries 42
Mean −0.006921
Std Dev 1.266

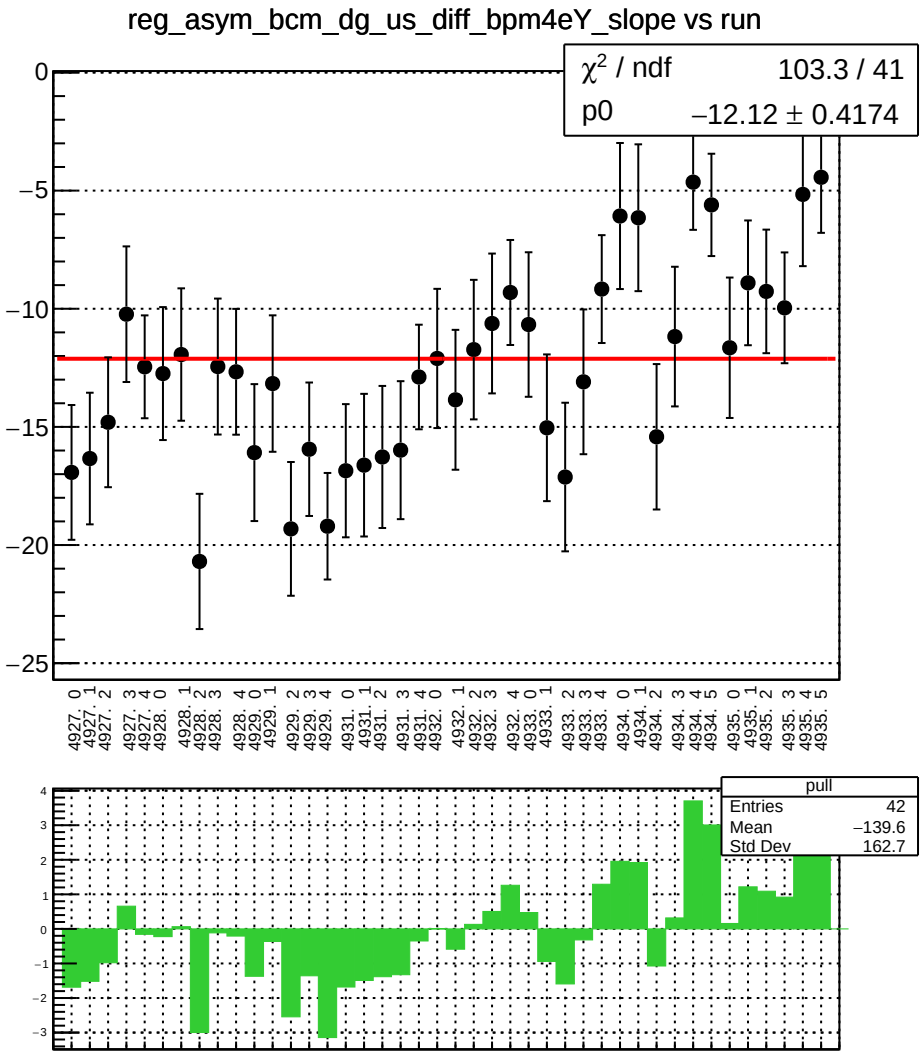

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 44.92 / 41
p0 −1.64 ± 0.2928
pull
Entries 42
Mean 206.1
Std Dev 184.5
pull1D
Entries 42
Mean −0.03507
Std Dev 1.034

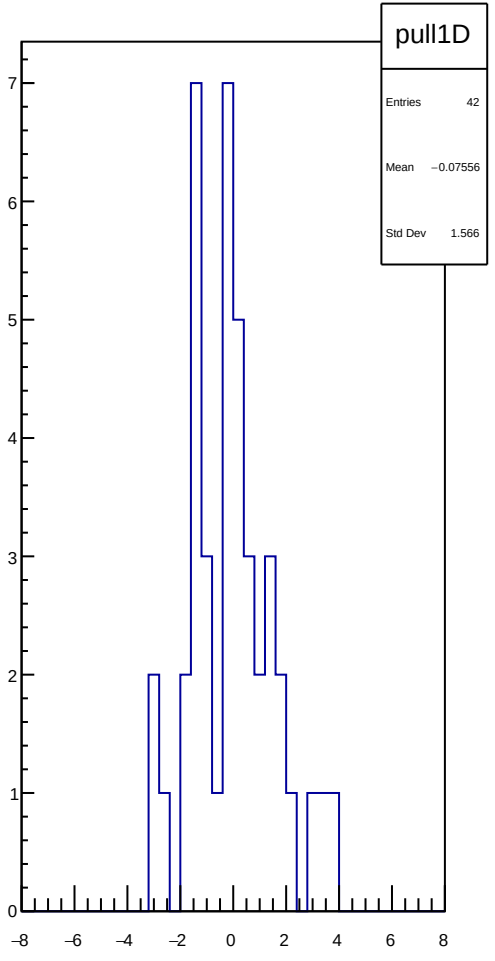

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 111.3 / 41
p0 7.862 ± 0.3684
pull
Entries 42
Mean −187
Std Dev 210.1

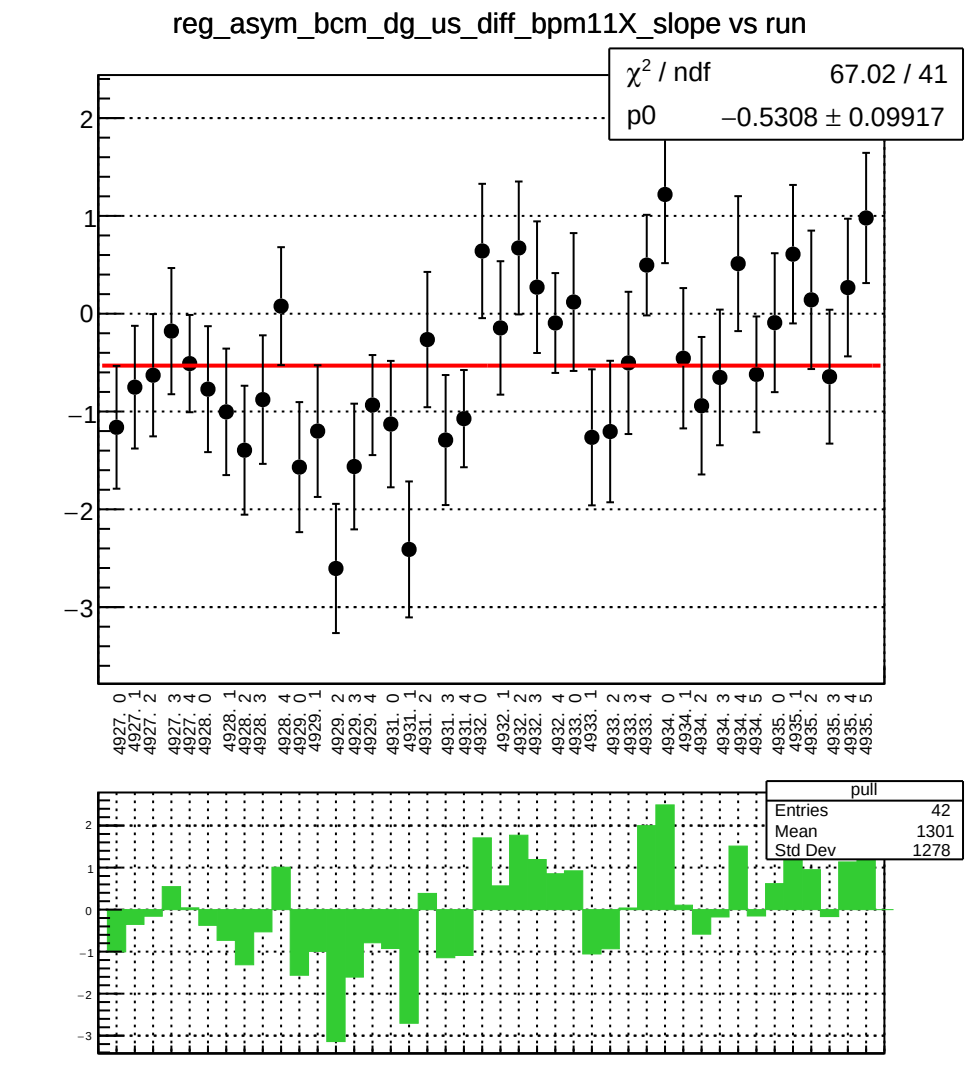

pull1D
Entries 42
Mean 0.05948
Std Dev 1.627

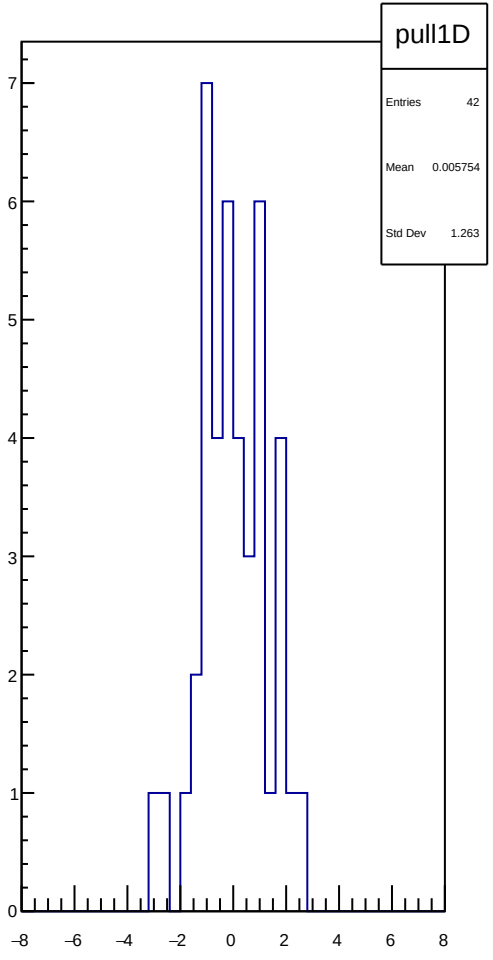

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 62.78 / 41
p0 0.3081± 0.06192
pull
Entries 42
Mean 501.2
Std Dev 479

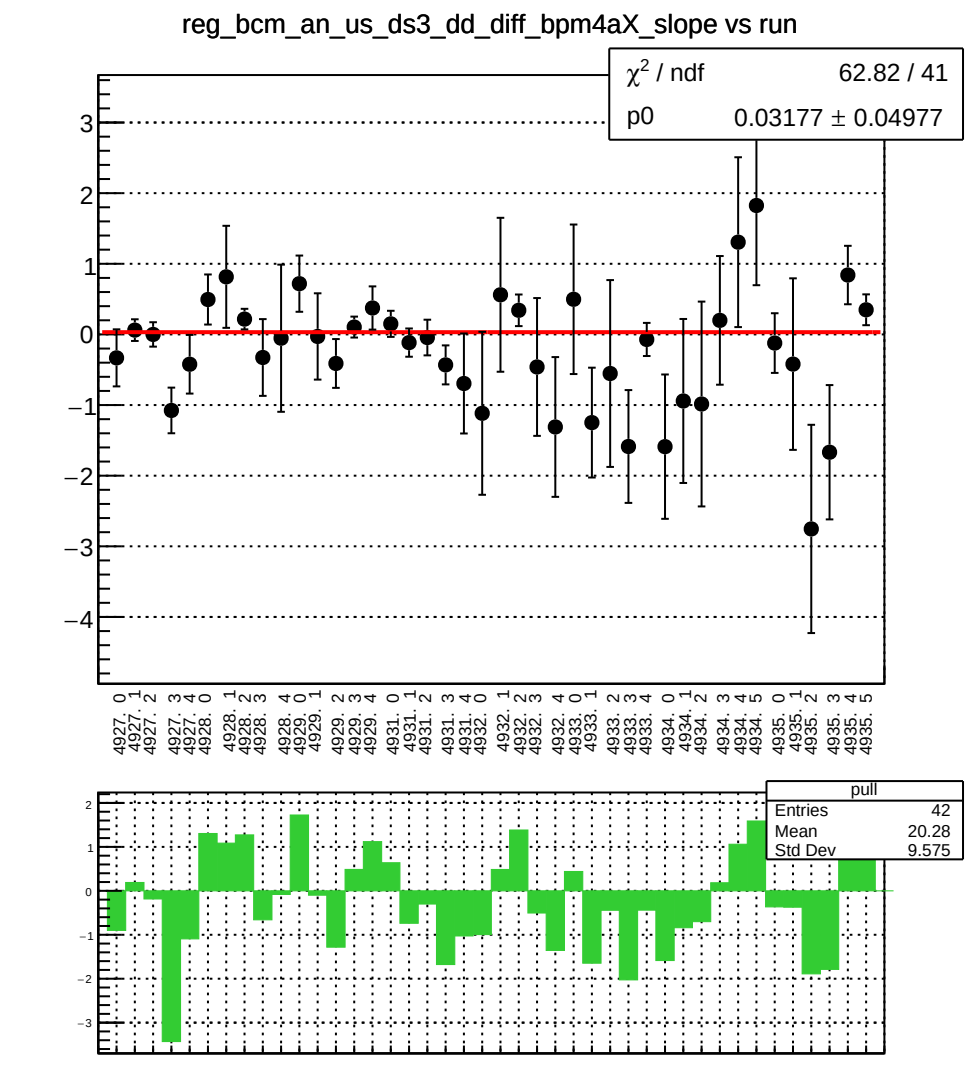

pull1D
Entries 42
Mean 0.01775
Std Dev 1.223

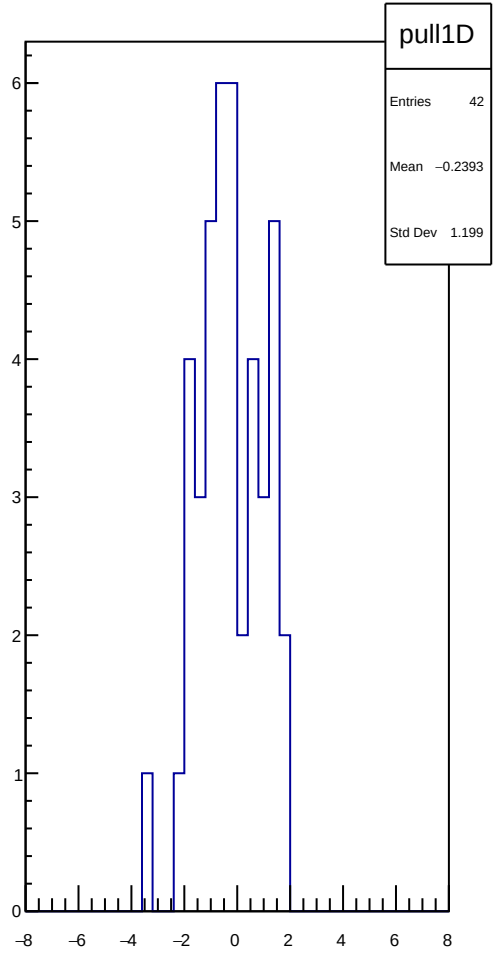

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 103.3 / 41
p0 −12.12 ± 0.4174
pull
Entries 42
Mean −139.6
Std Dev 162.7

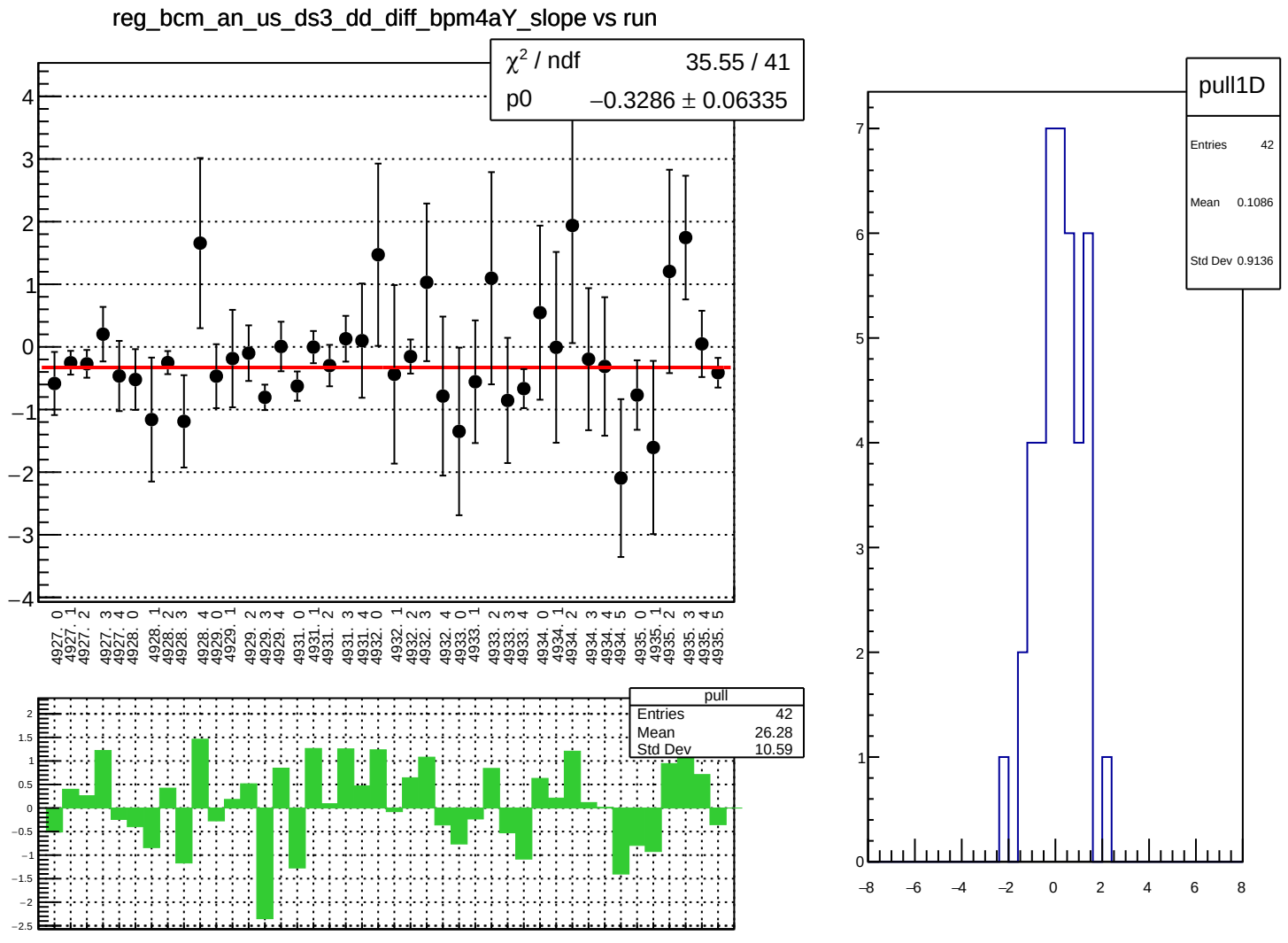

pull1D
Entries 42
Mean −0.07556
Std Dev 1.566

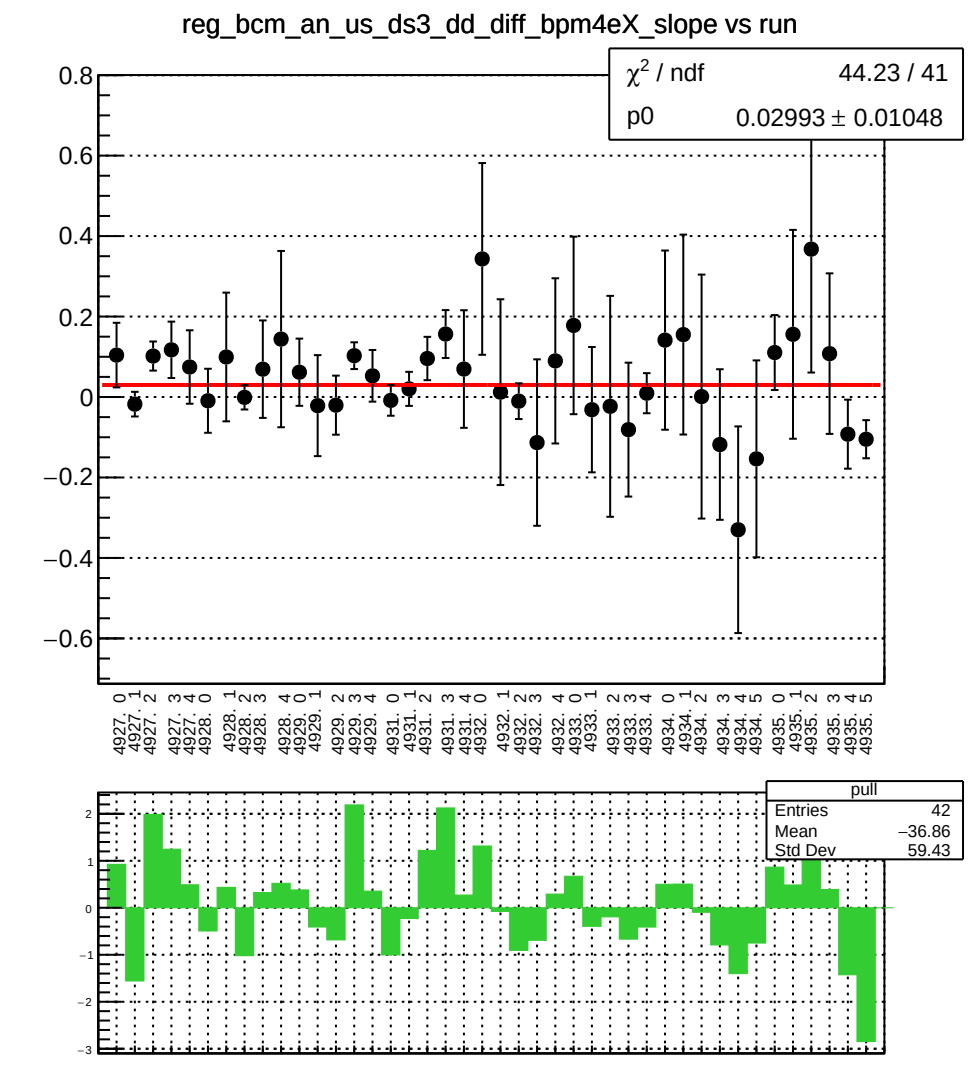

reg_asym_bcm_dg_us_diff_bpm11X_slope vs run
χ² / ndf 67.02 / 41
p0 −0.5308 ± 0.09917
pull
Entries 42
Mean 1301
Std Dev 1278

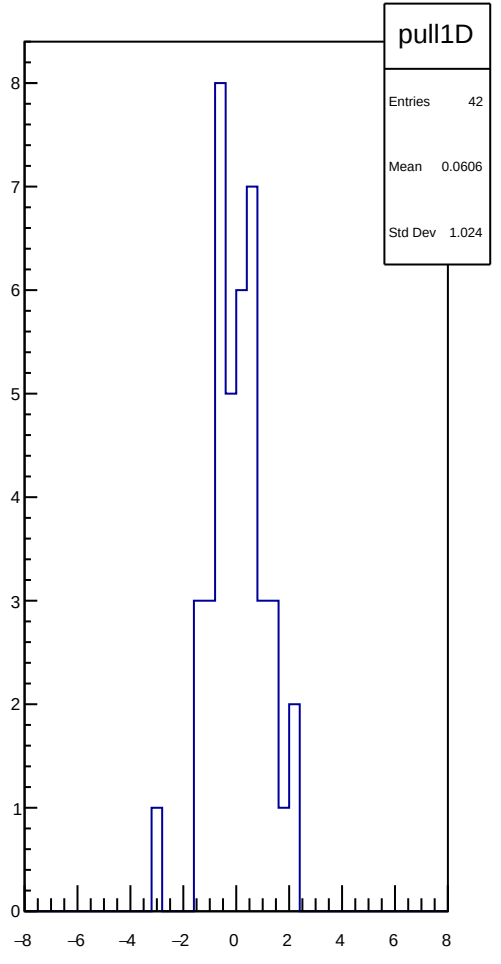

pull1D
Entries 42
Mean 0.005754
Std Dev 1.263

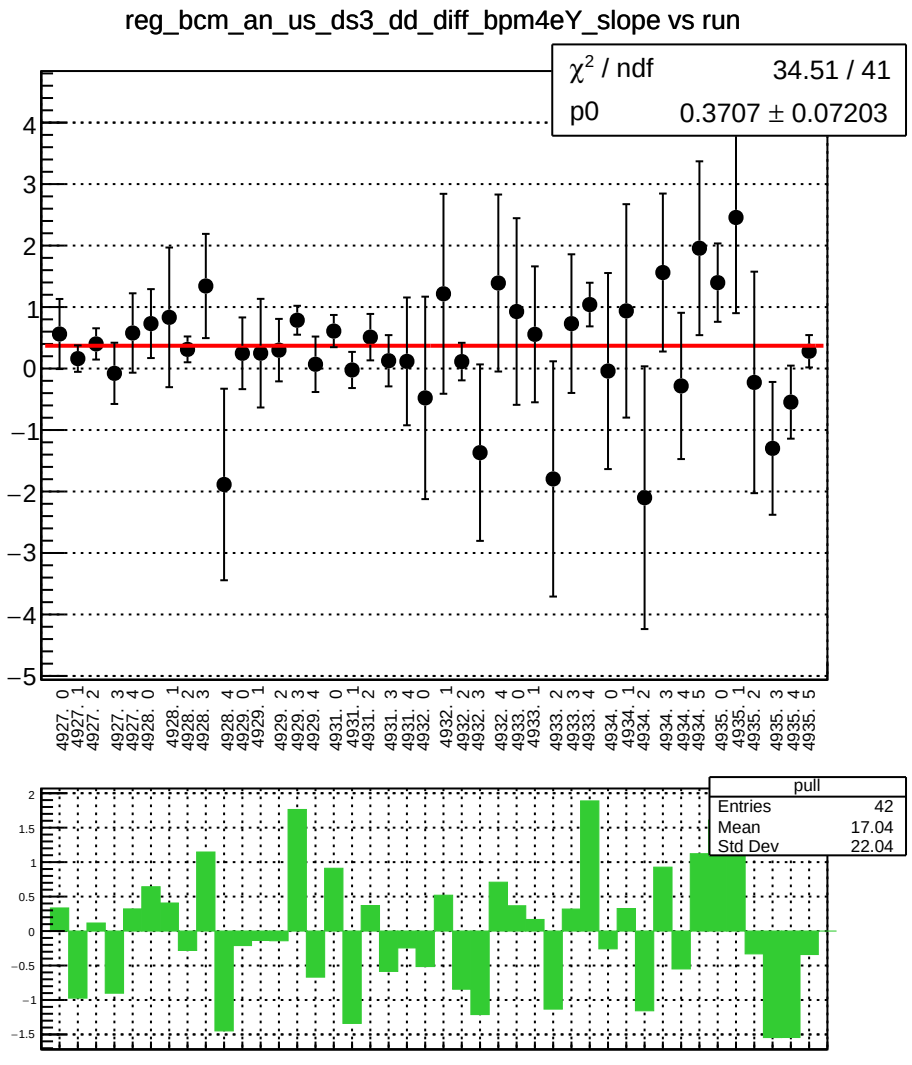

reg_bcm_an_us_ds3_dd_diff_bpm4aX_slope vs run
χ² / ndf 62.82 / 41
p0 0.03177 ± 0.04977
pull
Entries 42
Mean 20.28
Std Dev 9.575

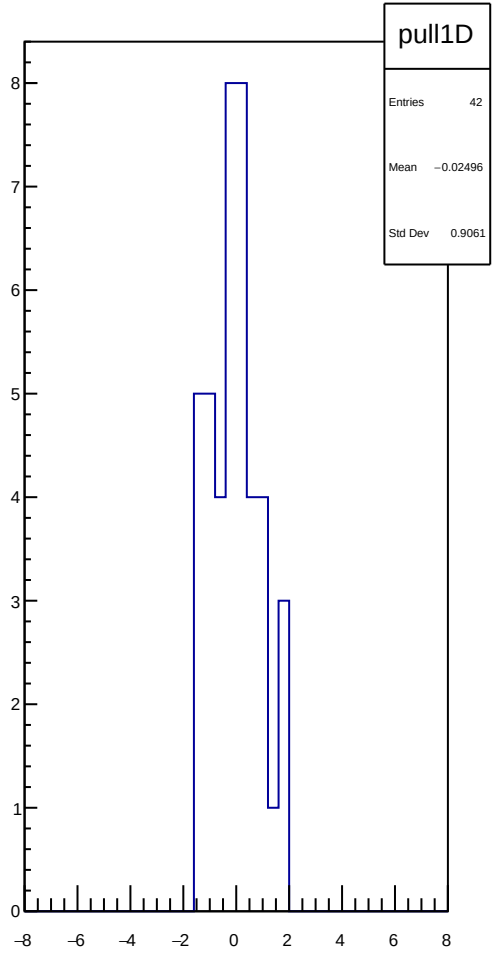

pull1D
Entries 42
Mean −0.2393
Std Dev 1.199

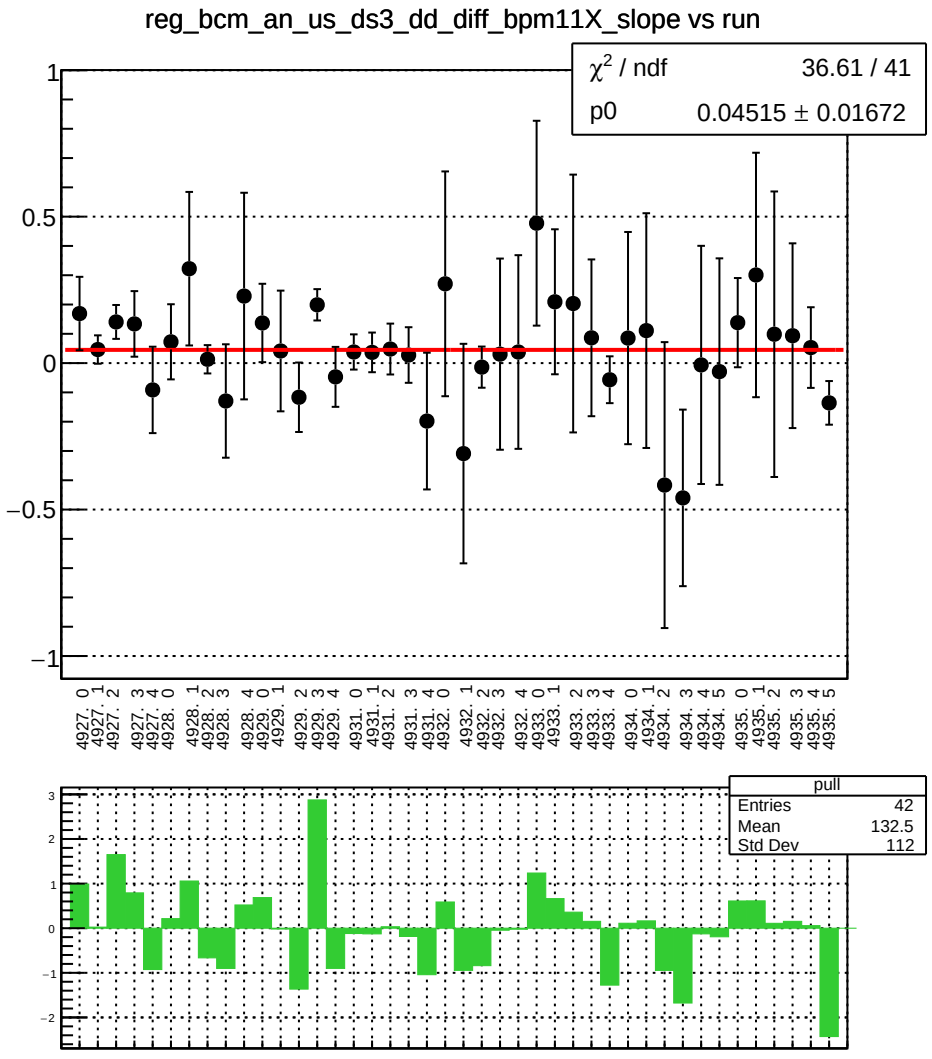

reg_bcm_an_us_ds3_dd_diff_bpm4aY_slope vs run
χ² / ndf 35.55 / 41
p0 −0.3286 ± 0.06335
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean 26.28
Std Dev 10.59
pull1D
Entries 42
Mean 0.1086
Std Dev 0.9136

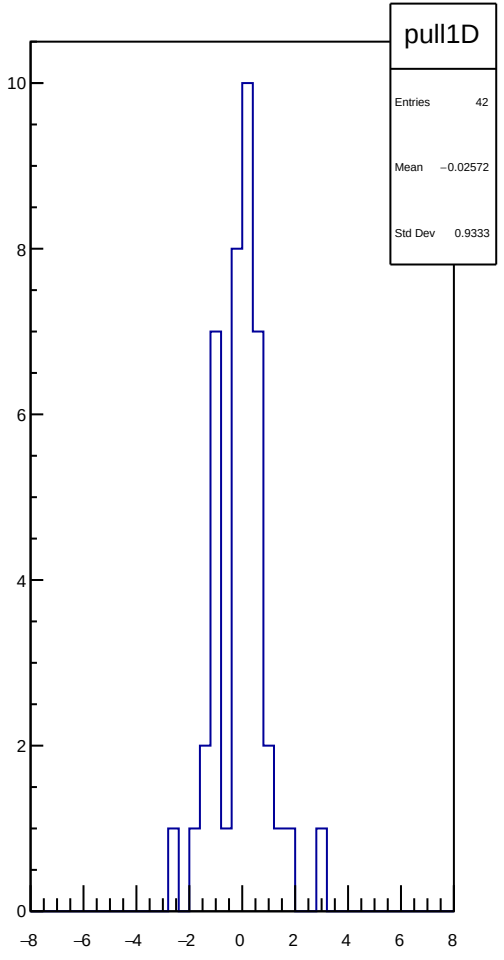

reg_bcm_an_us_ds3_dd_diff_bpm4eX_slope vs run
χ² / ndf 44.23 / 41
p0 0.02993 ± 0.01048
pull
Entries 42
Mean −36.86
Std Dev 59.43

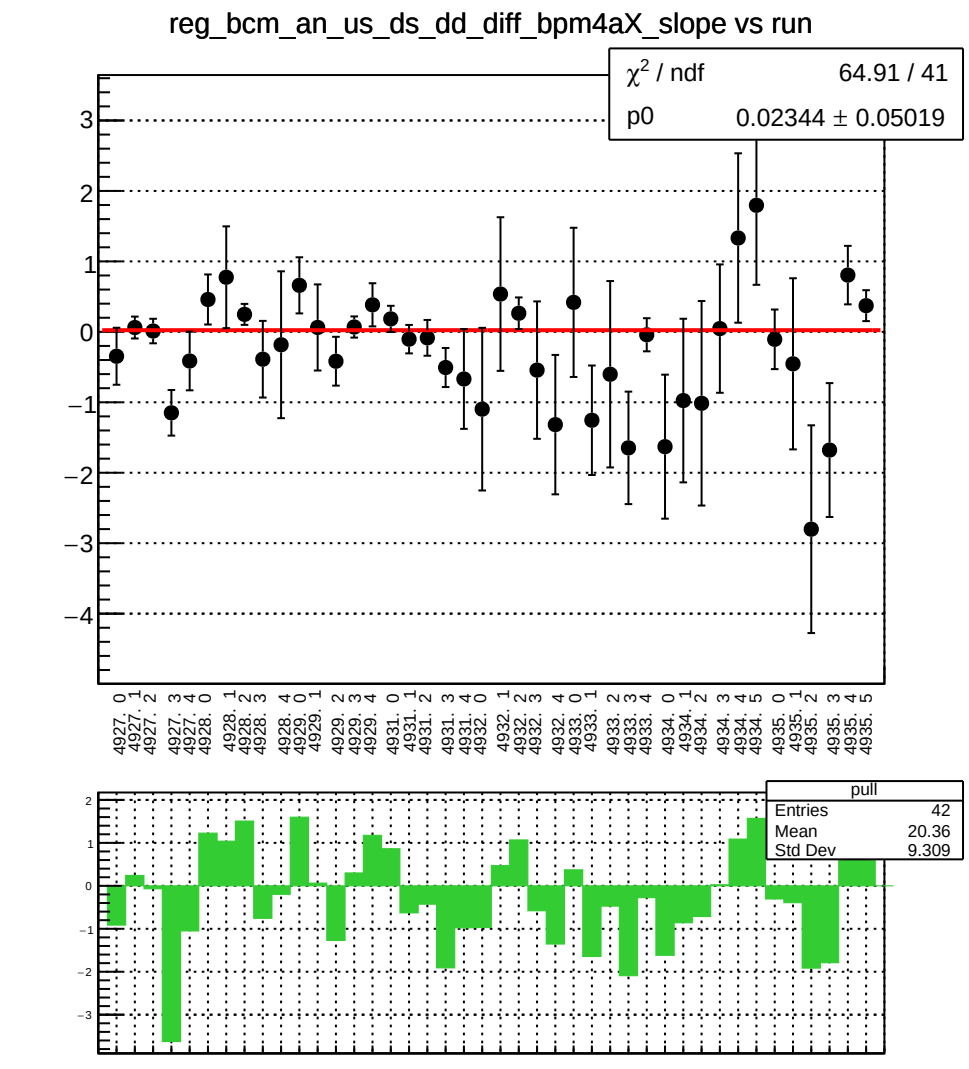

pull1D
Entries 42
Mean 0.0606
Std Dev 1.024

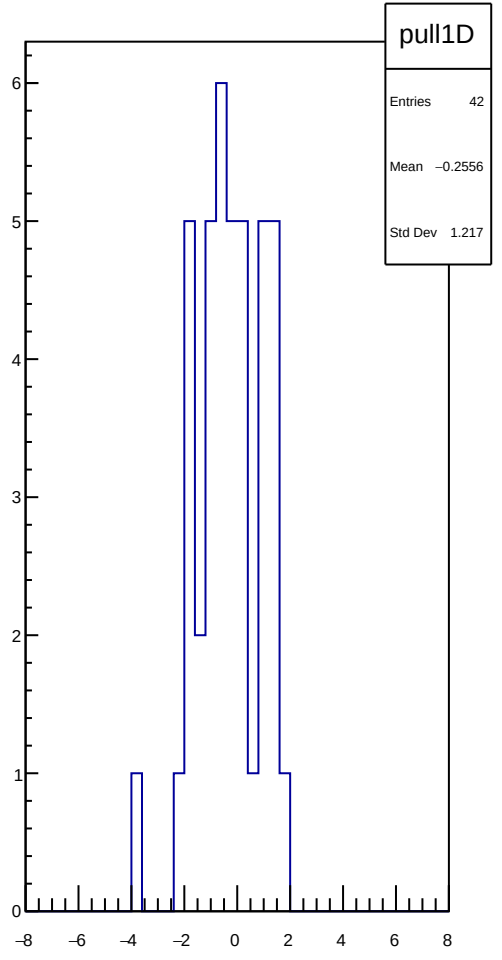

reg_bcm_an_us_ds3_dd_diff_bpm4eY_slope vs run
χ² / ndf 34.51 / 41
p0 0.3707 ± 0.07203
pull
Entries 42
Mean 17.04
Std Dev 22.04

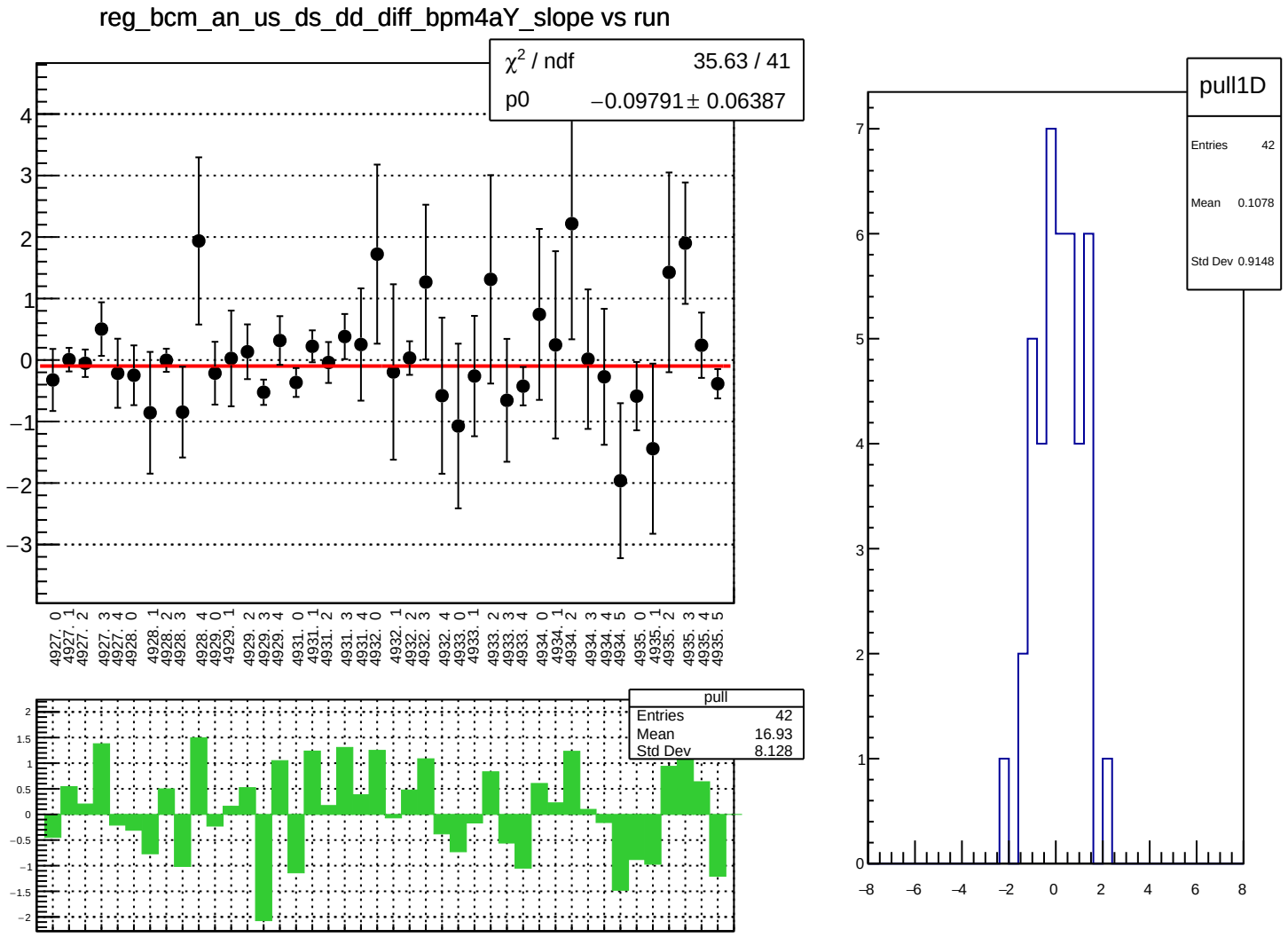

pull1D
Entries 42
Mean −0.02496
Std Dev 0.9061

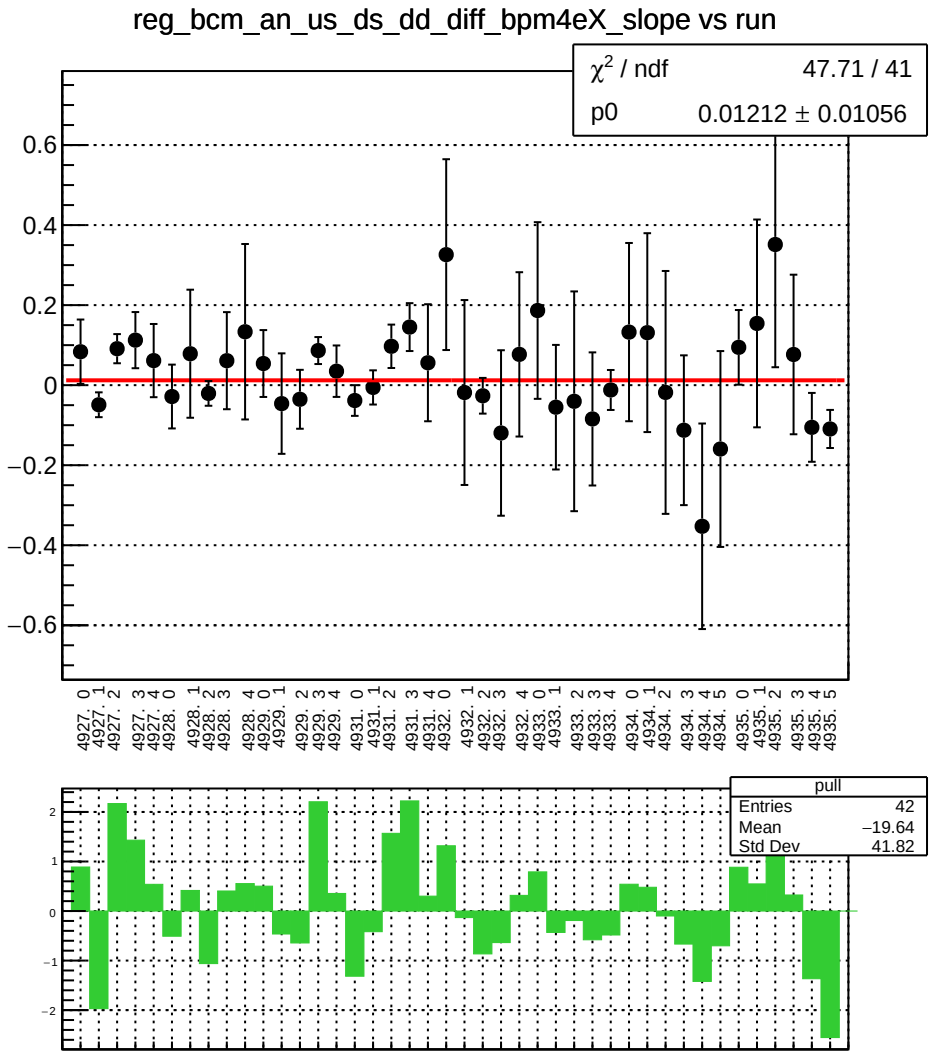

reg_bcm_an_us_ds3_dd_diff_bpm11X_slope vs run
χ² / ndf 36.61 / 41
p0 0.04515 ± 0.01672
pull
Entries 42
Mean 132.5
Std Dev 112

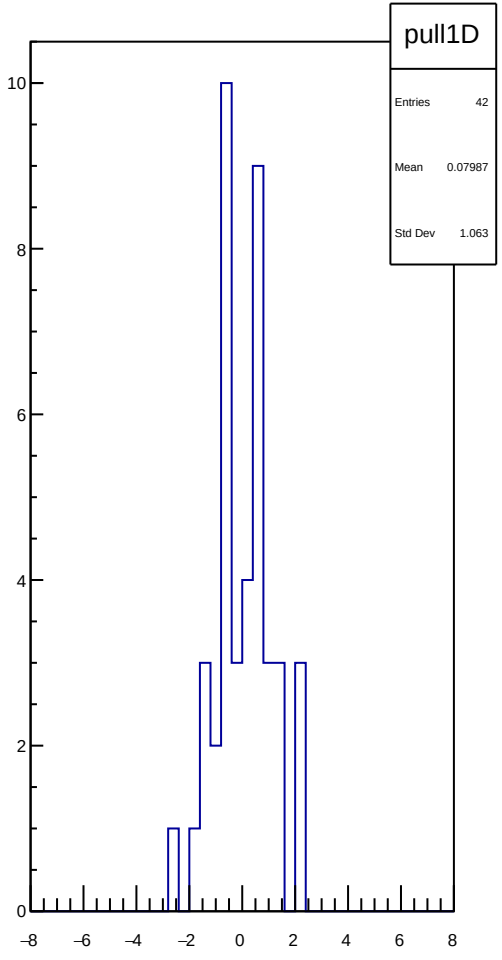

pull1D
Entries 42
Mean −0.02572
Std Dev 0.9333

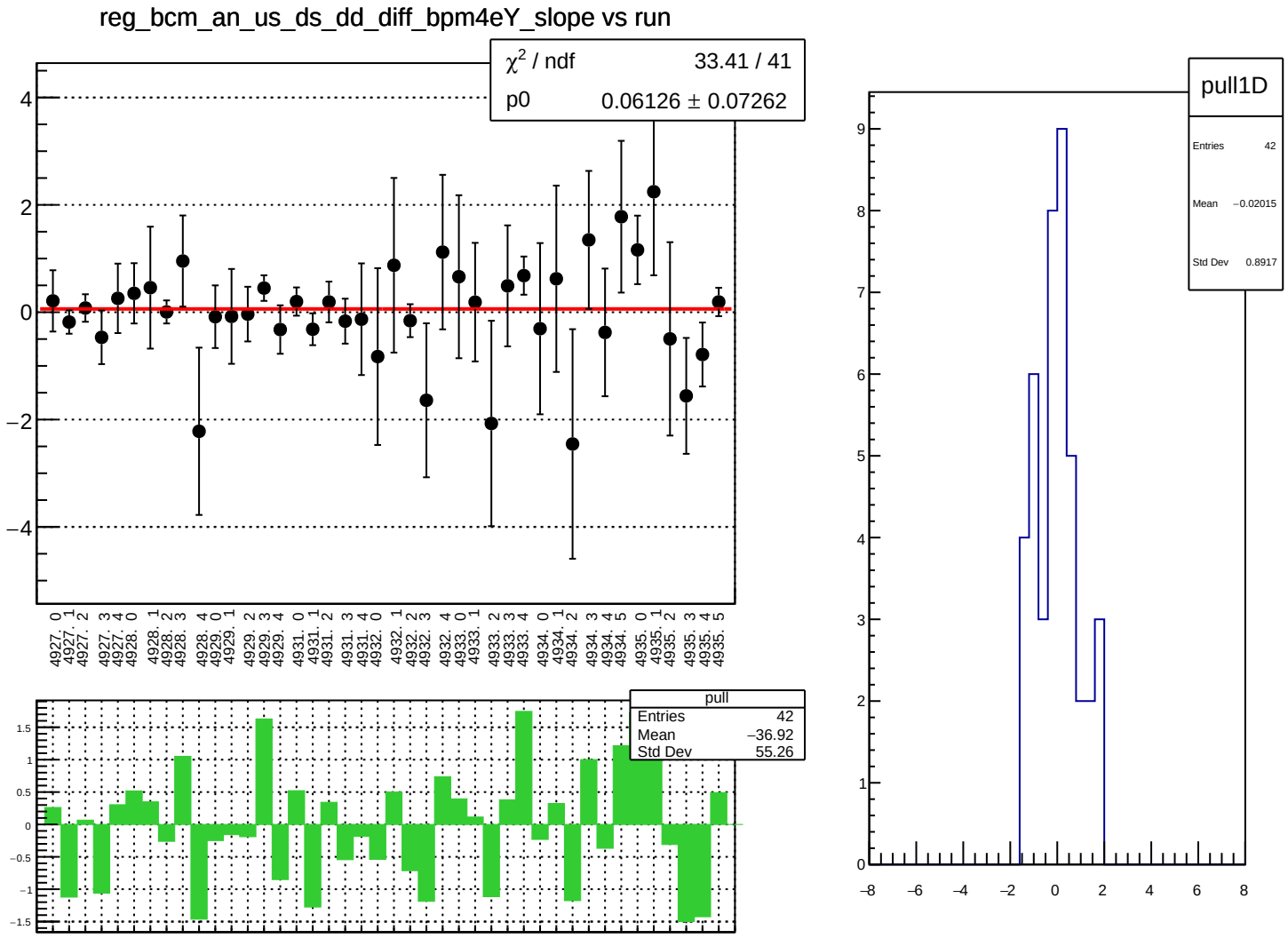

reg_bcm_an_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 64.91 / 41
p0 0.02344 ± 0.05019
pull
Entries 42
Mean 20.36
Std Dev 9.309

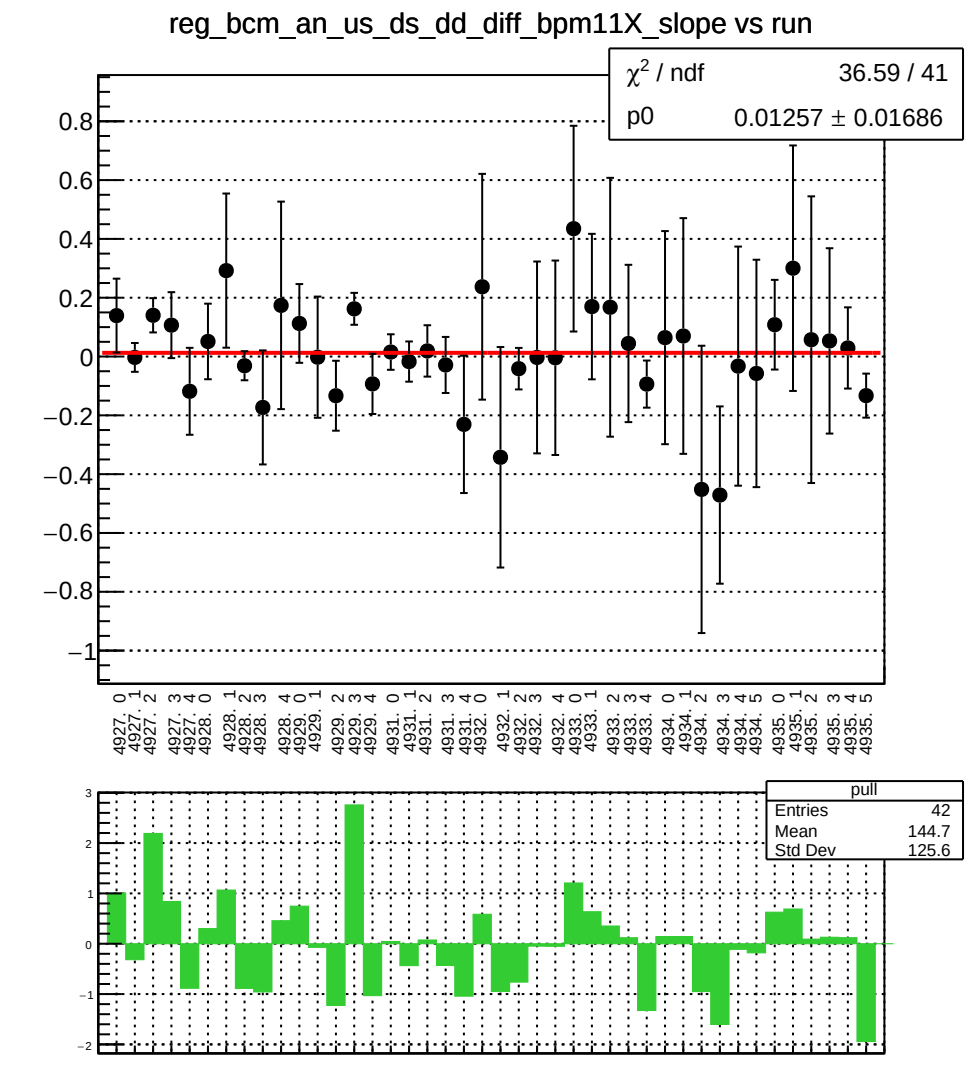

pull1D
Entries 42
Mean −0.2556
Std Dev 1.217

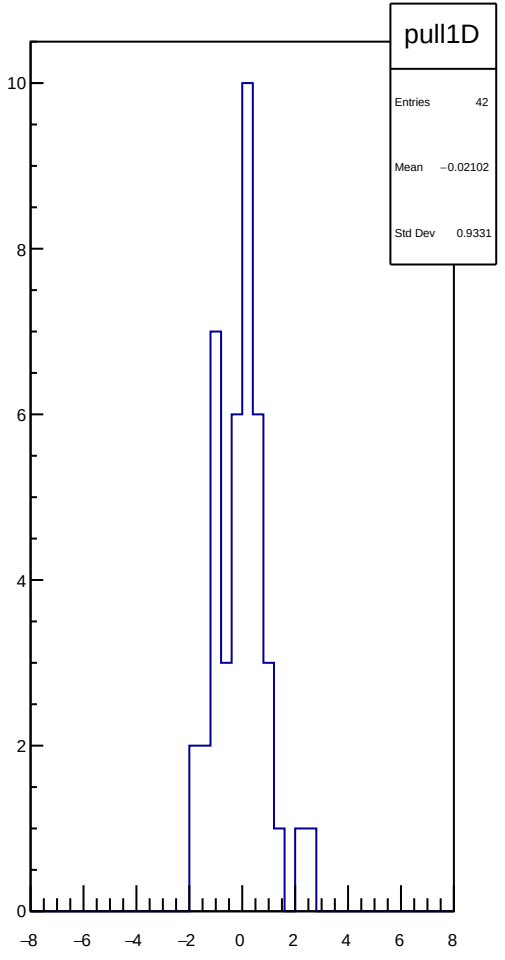

reg_bcm_an_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 35.63 / 41
p0 −0.09791 ± 0.06387
pull
Entries 42
Mean 16.93
Std Dev 8.128
pull1D
Entries 42
Mean 0.1078
Std Dev 0.9148

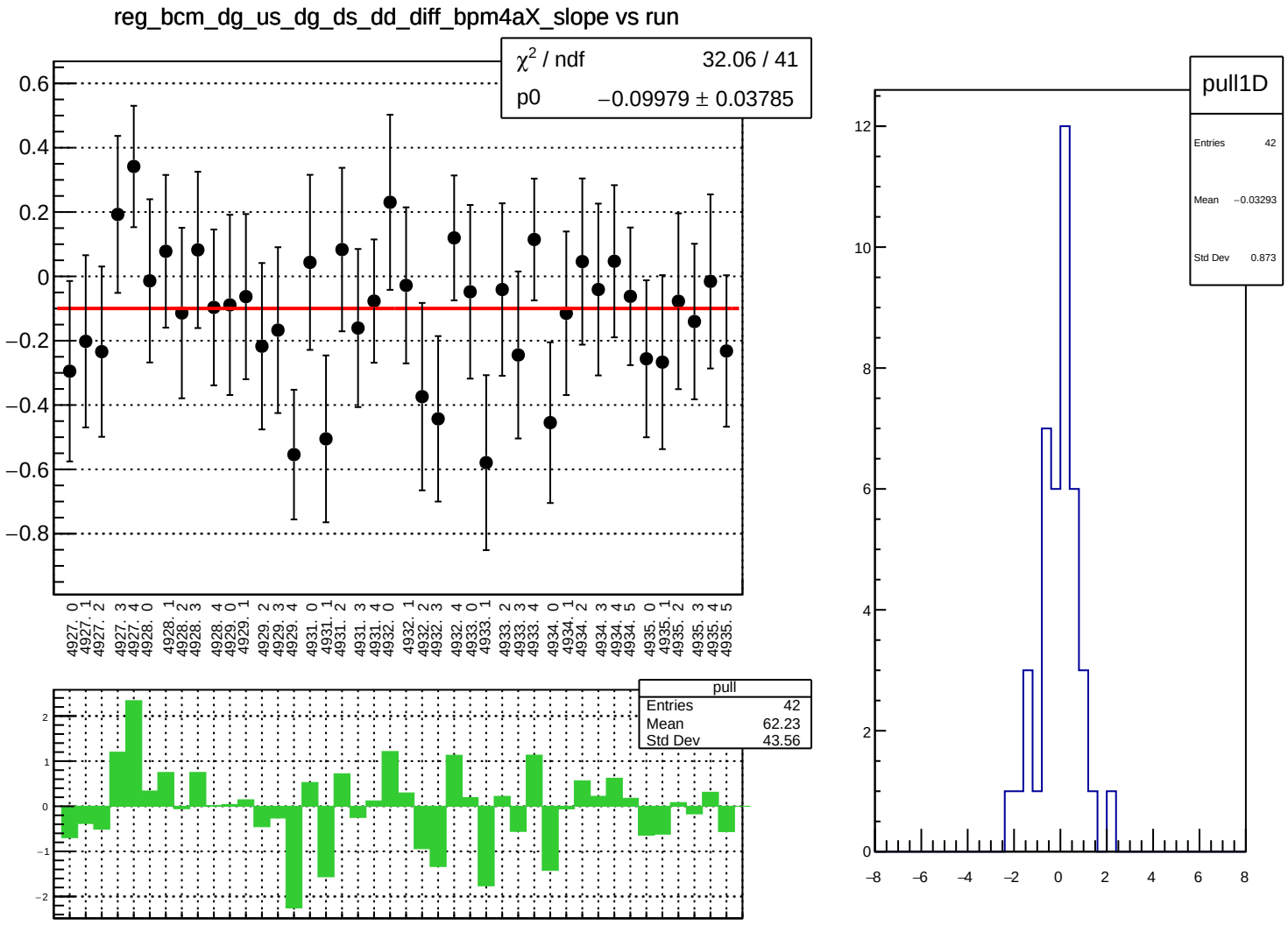

reg_bcm_an_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 47.71 / 41
p0 0.01212 ± 0.01056
pull
Entries 42
Mean −19.64
Std Dev 41.82

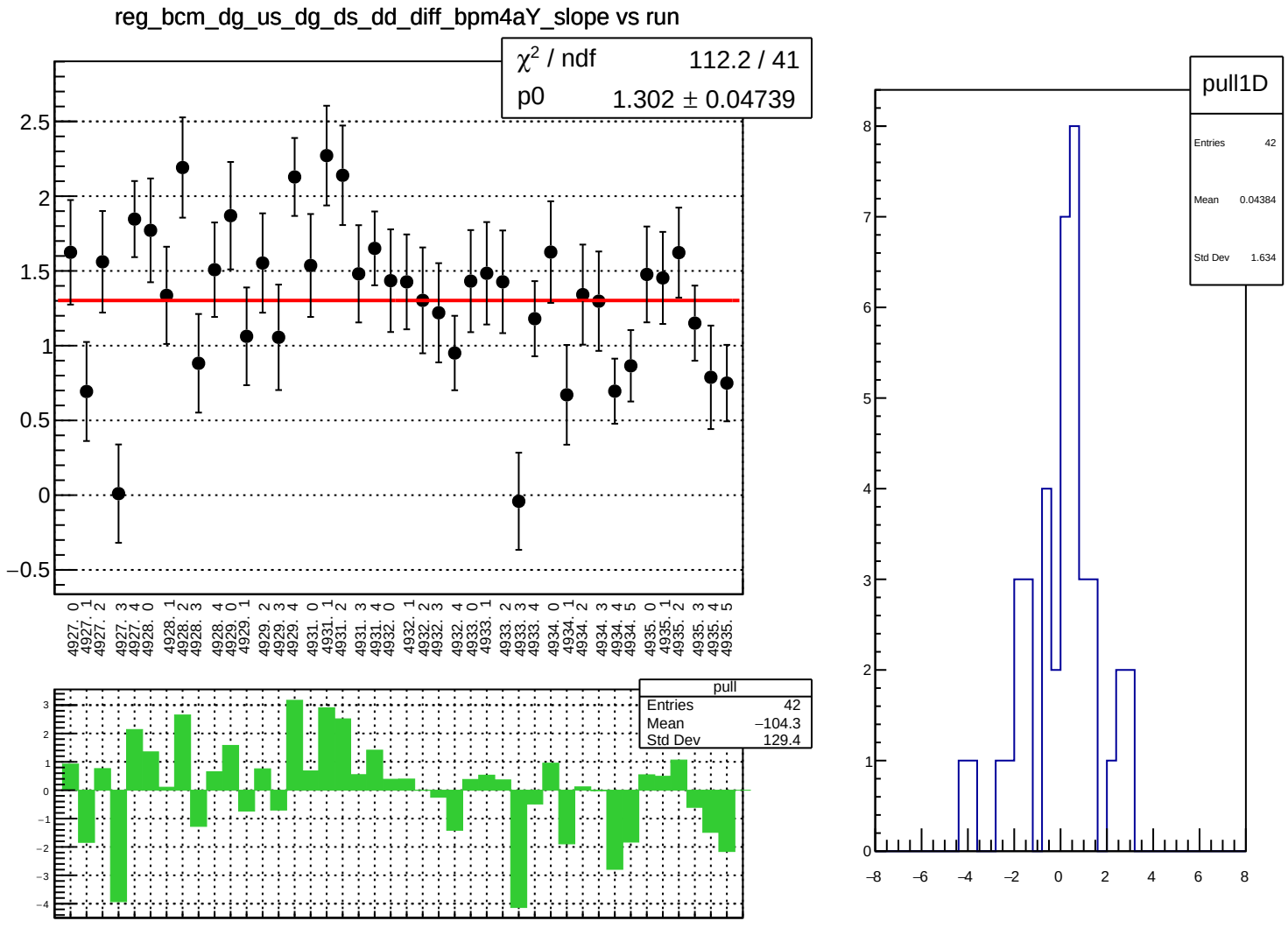

pull1D
Entries 42
Mean 0.07987
Std Dev 1.063

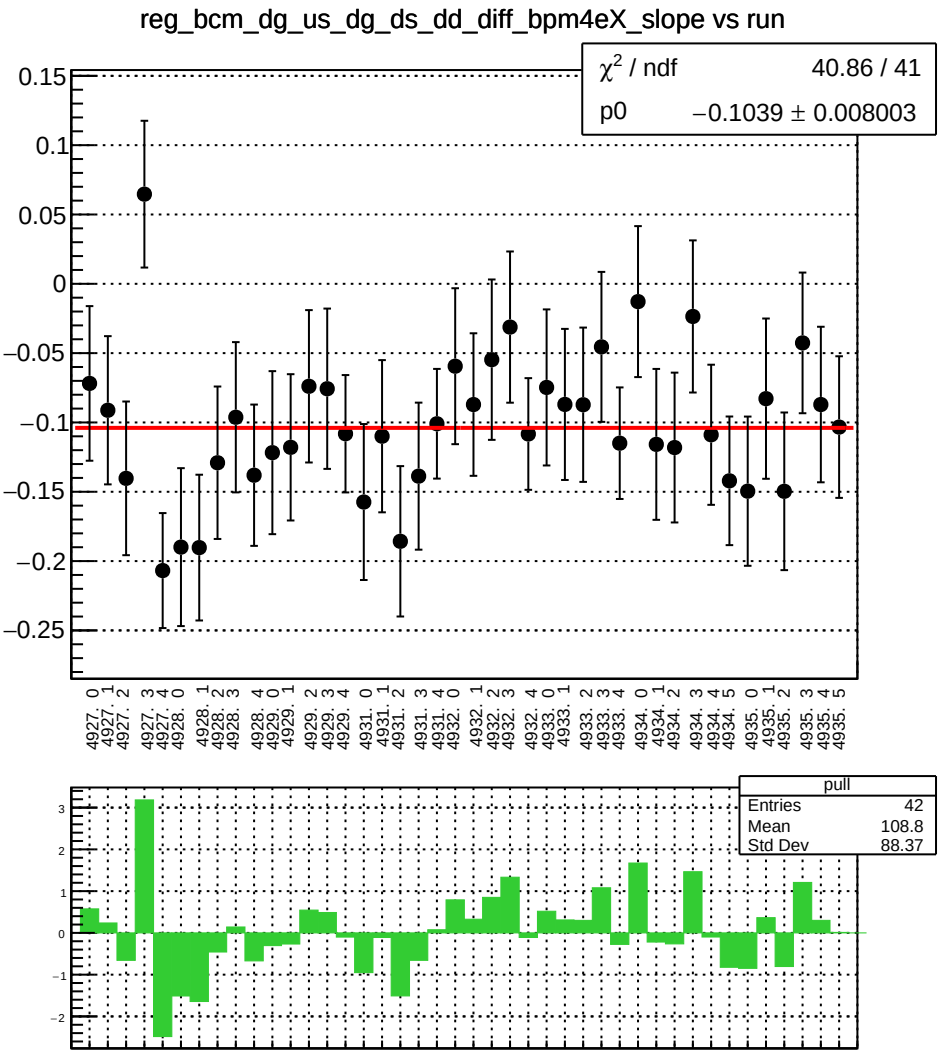

reg_bcm_an_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 33.41 / 41
p0 0.06126 ± 0.07262
4
2
0
−2
−4
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −36.92
Std Dev 55.26
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 42
Mean −0.02015
Std Dev 0.8917
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

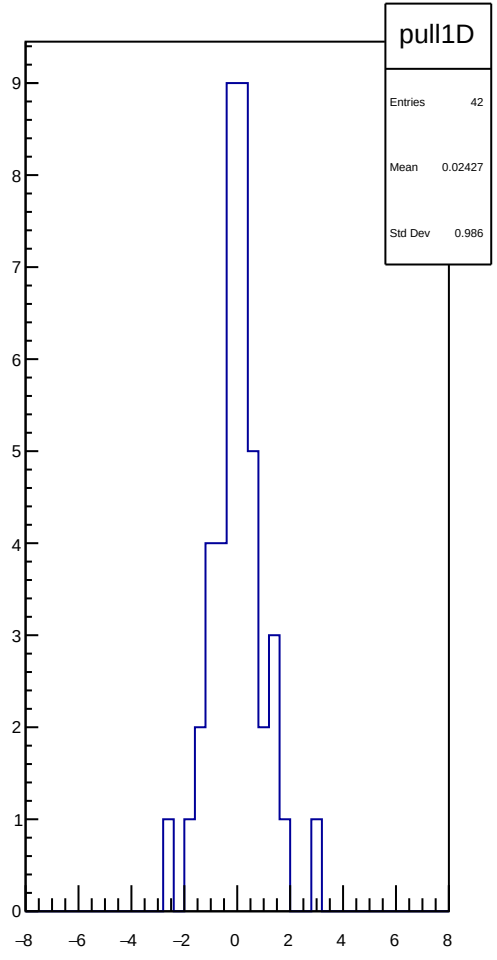

reg_bcm_an_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 36.59 / 41
p0 0.01257 ± 0.01686
pull
Entries 42
Mean 144.7
Std Dev 125.6

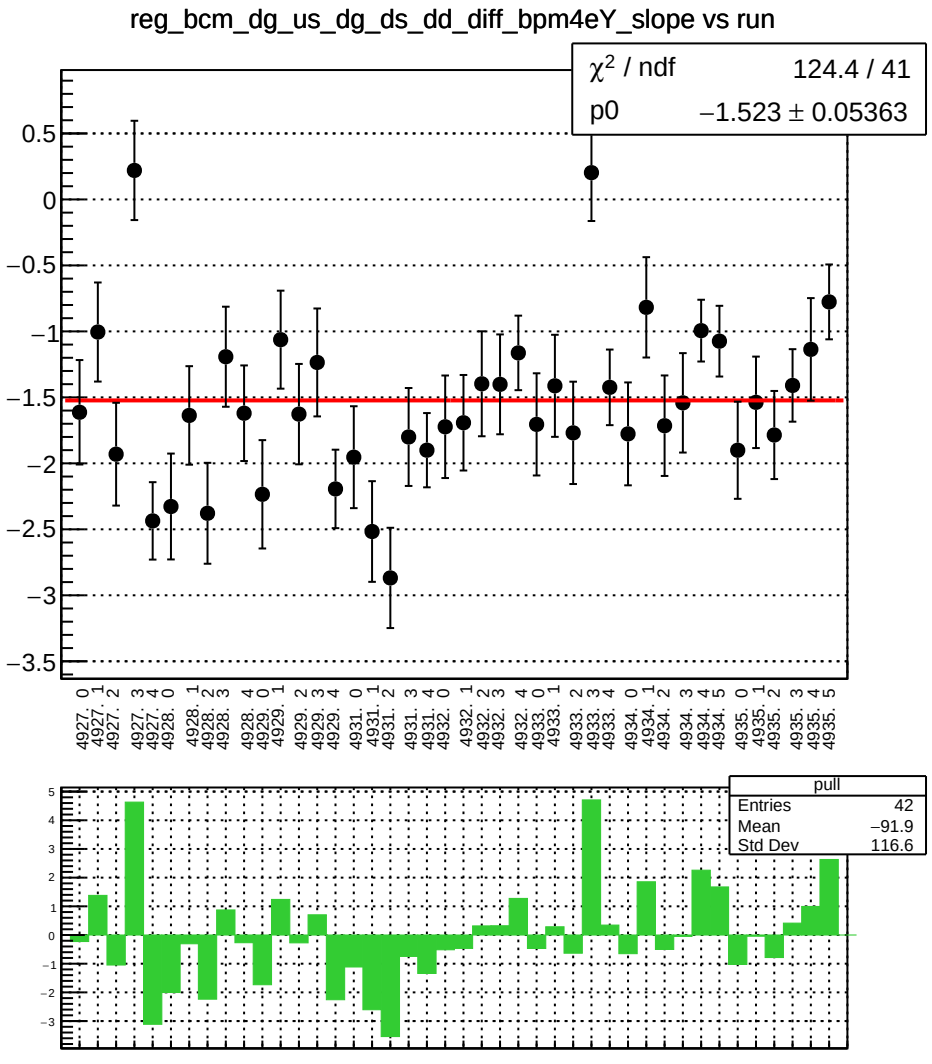

pull1D
Entries 42
Mean −0.02102
Std Dev 0.9331

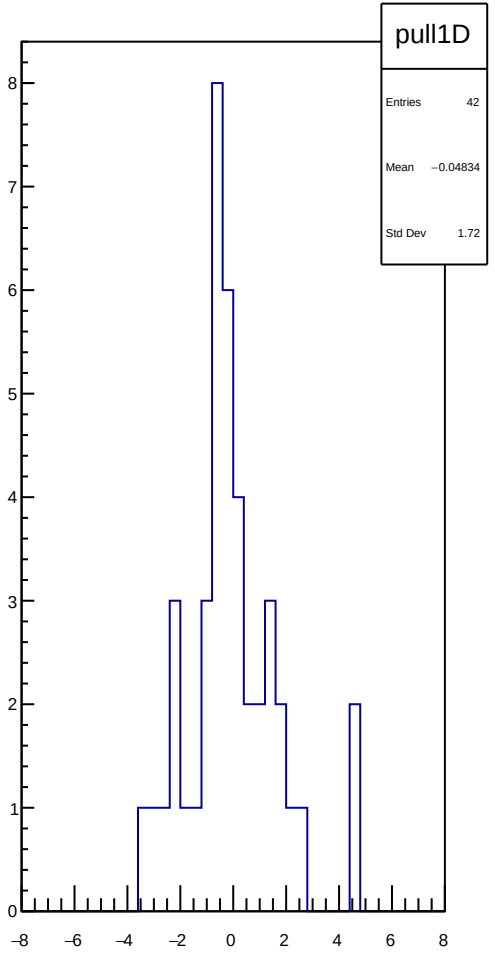

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 32.06 / 41
p0 −0.09979 ± 0.03785
pull
Entries 42
Mean 62.23
Std Dev 43.56
pull1D
Entries 42
Mean −0.03293
Std Dev 0.873

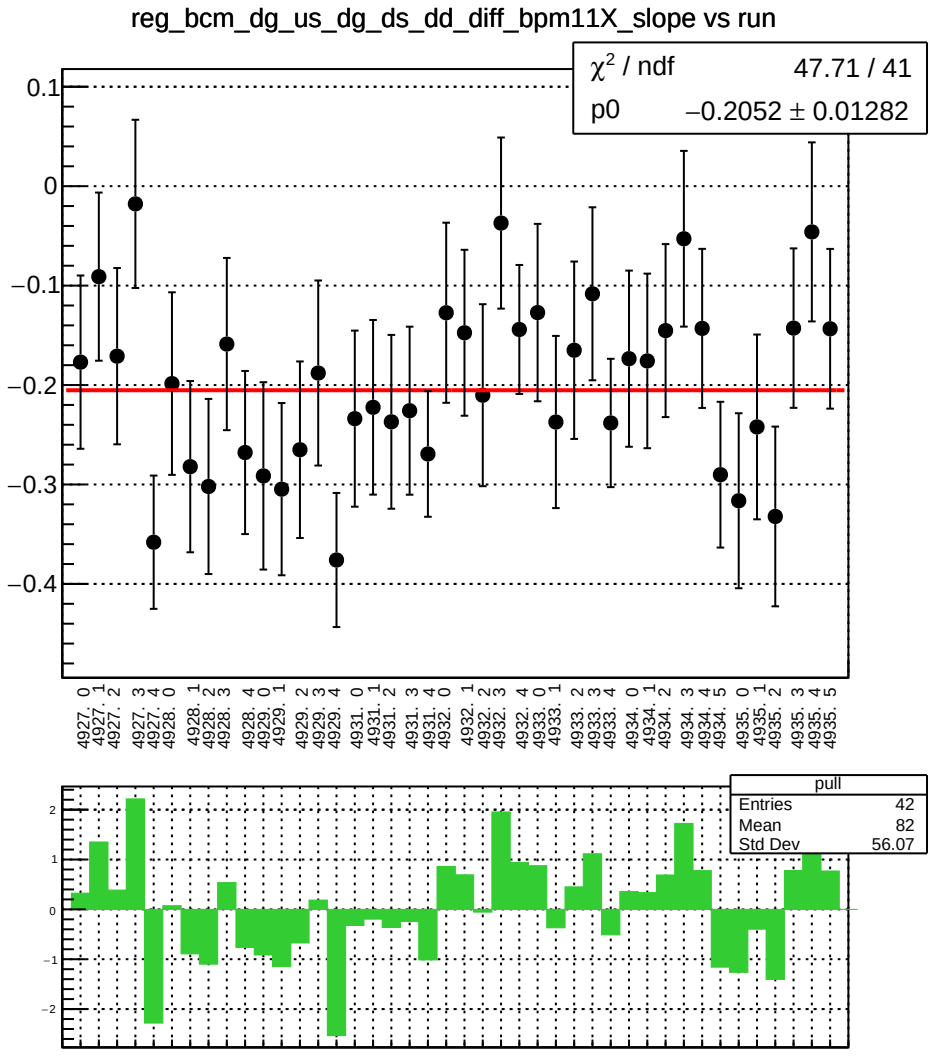

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 112.2 / 41
p0 1.302 ± 0.04739
pull
Entries 42
Mean −104.3
Std Dev 129.4
pull1D
Entries 42
Mean 0.04384
Std Dev 1.634

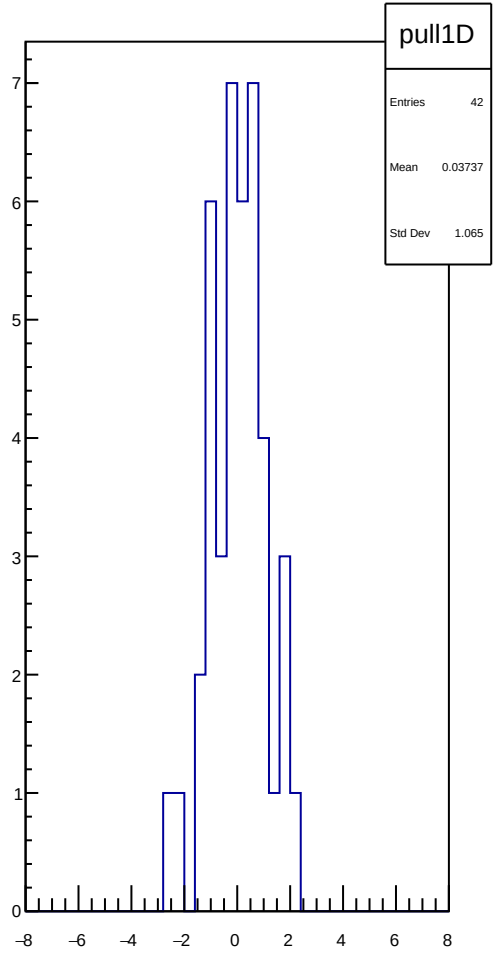

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 40.86 / 41
p0 −0.1039 ± 0.008003
pull
Entries 42
Mean 108.8
Std Dev 88.37

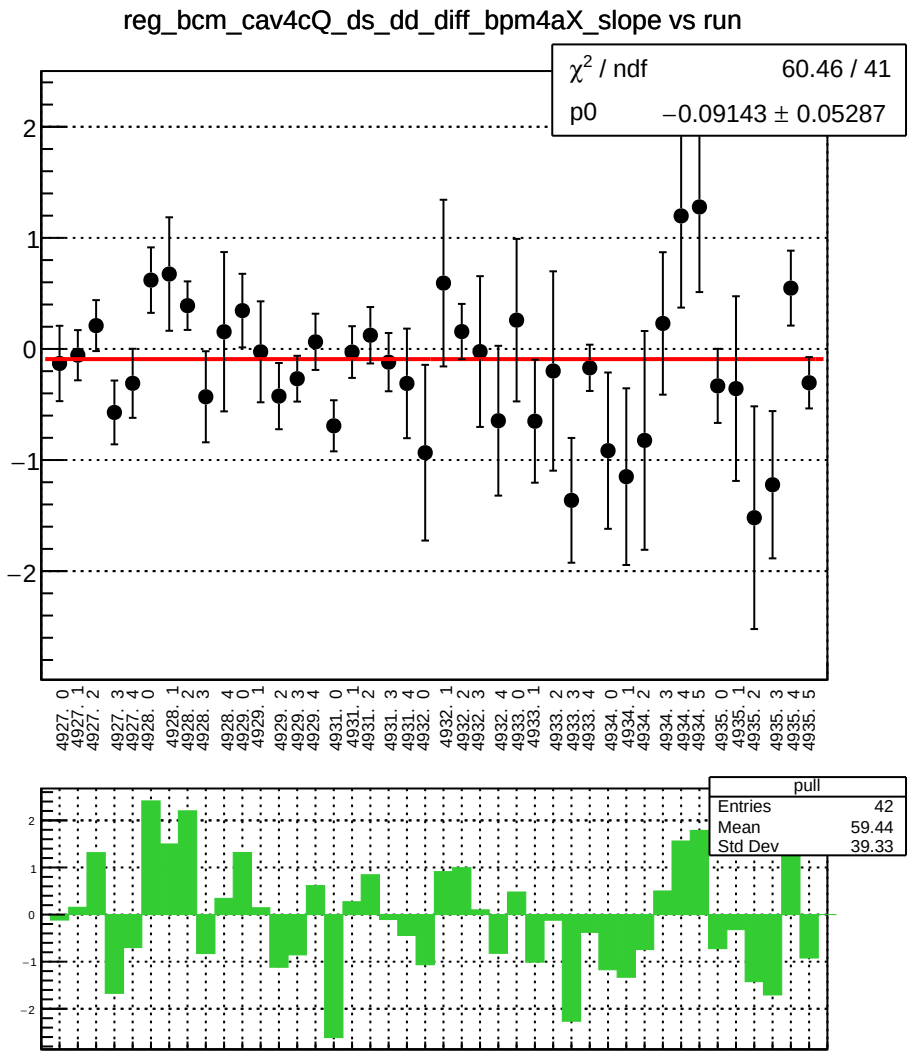

pull1D
Entries 42
Mean 0.02427
Std Dev 0.986

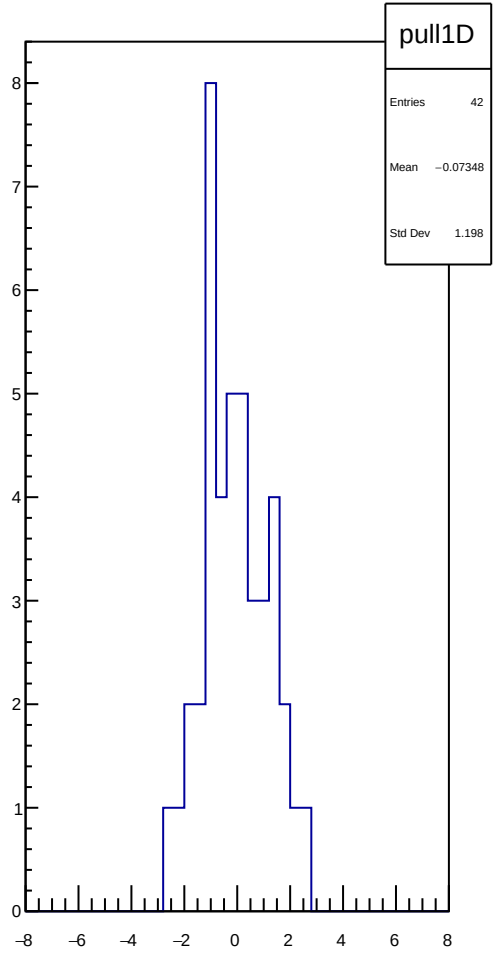

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 124.4 / 41
p0 −1.523 ± 0.05363
pull
Entries 42
Mean −91.9
Std Dev 116.6

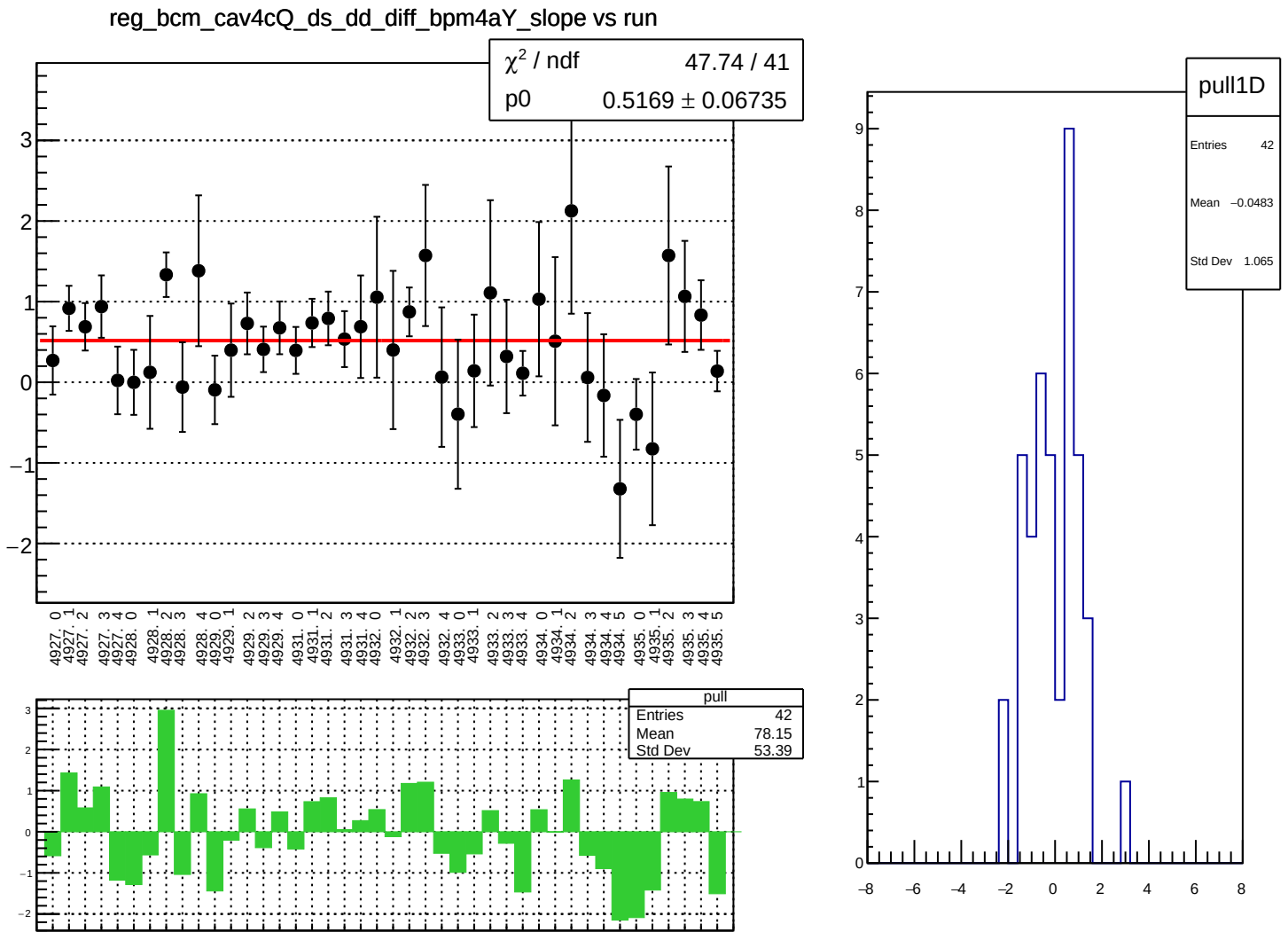

pull1D
Entries 42
Mean −0.04834
Std Dev 1.72

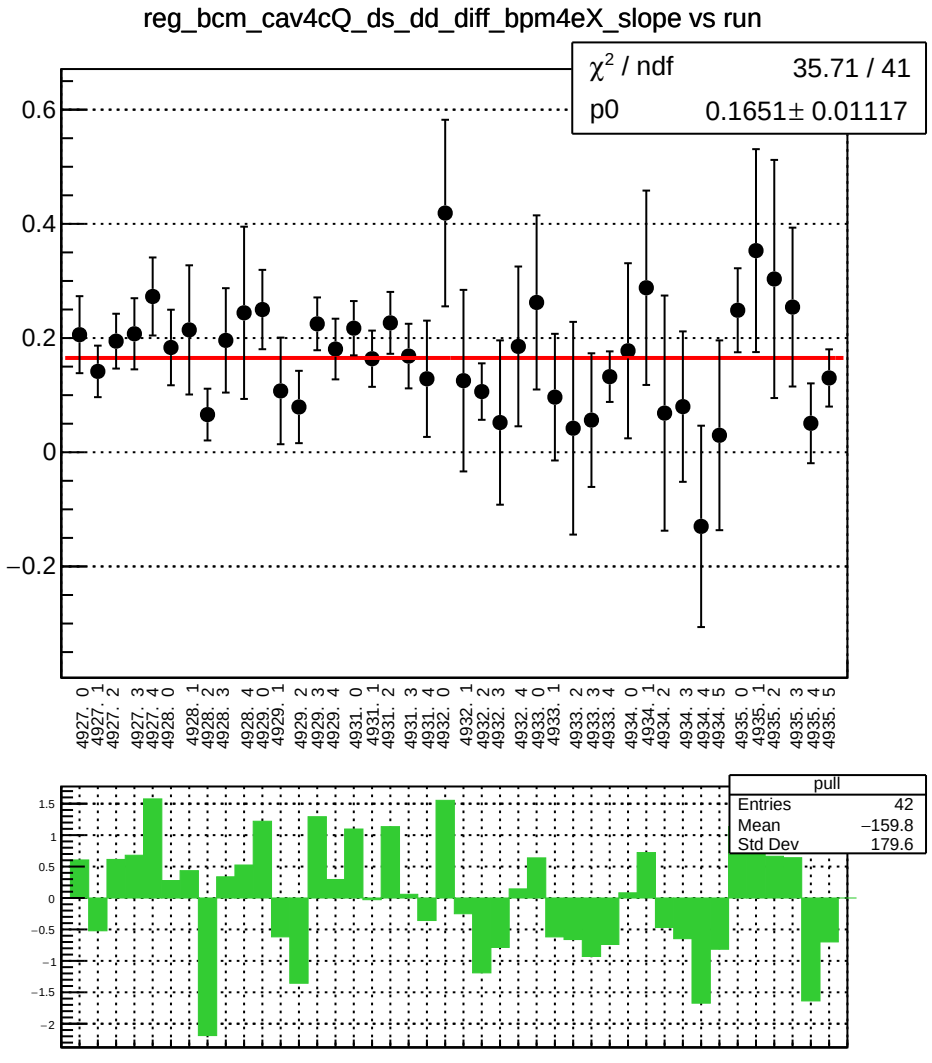

reg_bcm_dg_us_dg_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 47.71 / 41
p0 −0.2052 ± 0.01282
pull
Entries 42
Mean 82
Std Dev 56.07

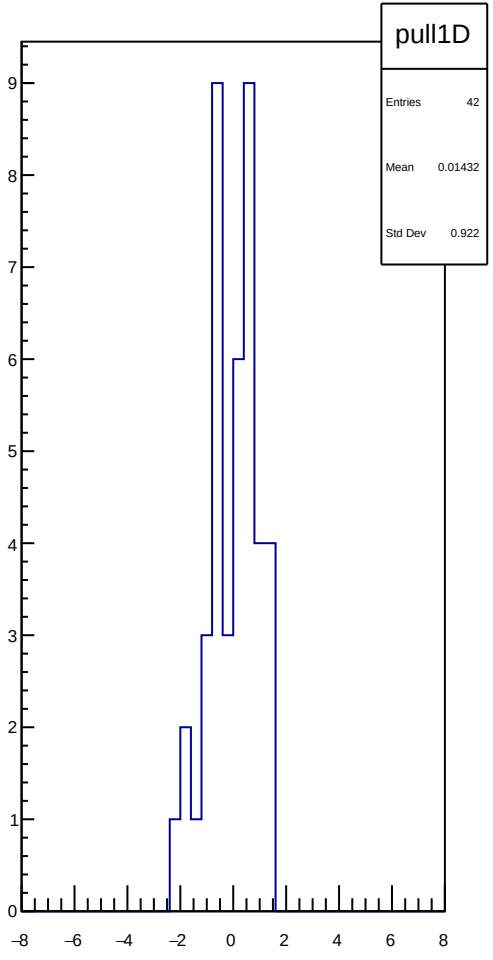

pull1D
Entries 42
Mean 0.03737
Std Dev 1.065

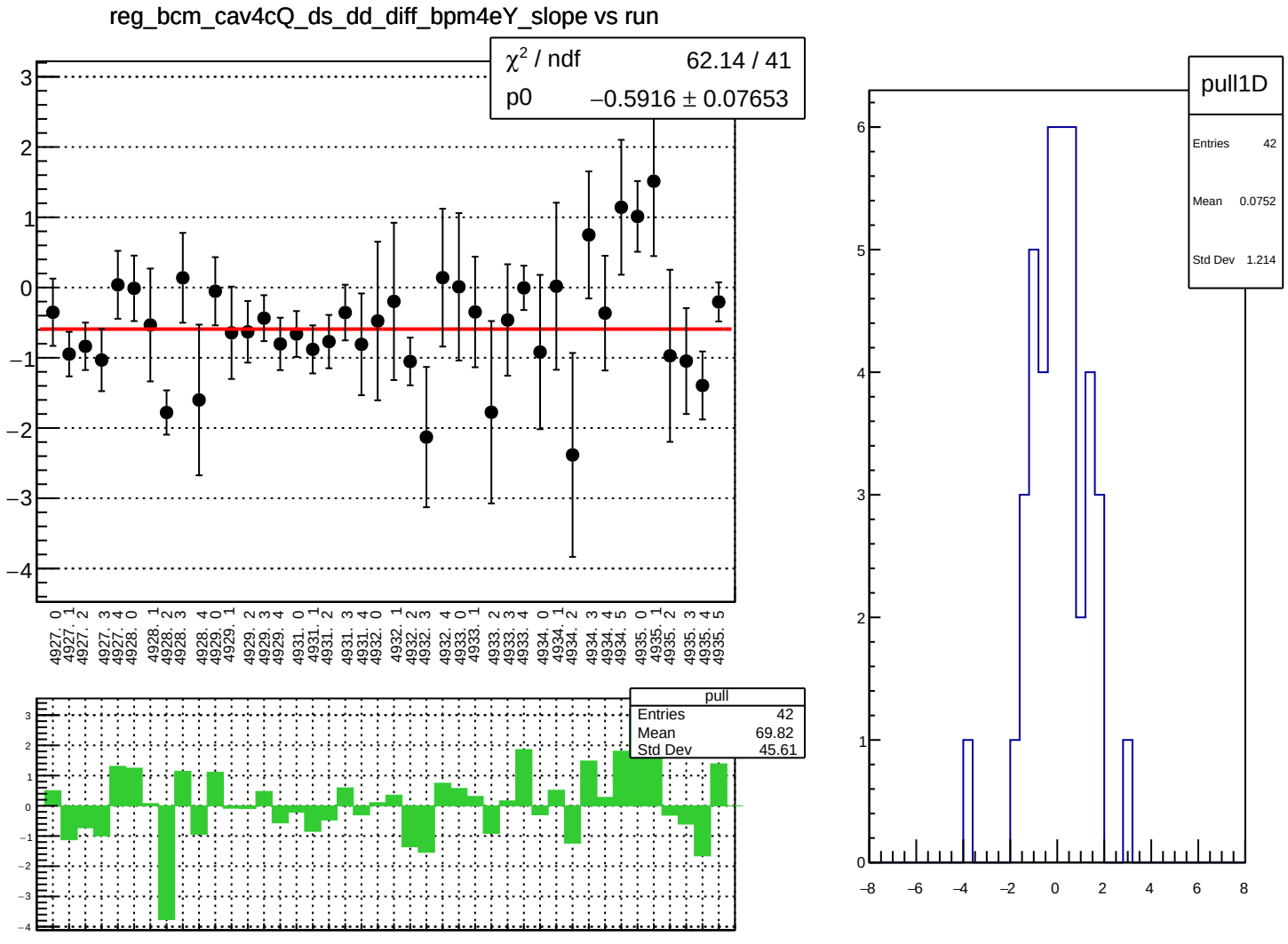

reg_bcm_cav4cQ_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 60.46 / 41
p0 −0.09143 ± 0.05287
pull
Entries 42
Mean 59.44
Std Dev 39.33

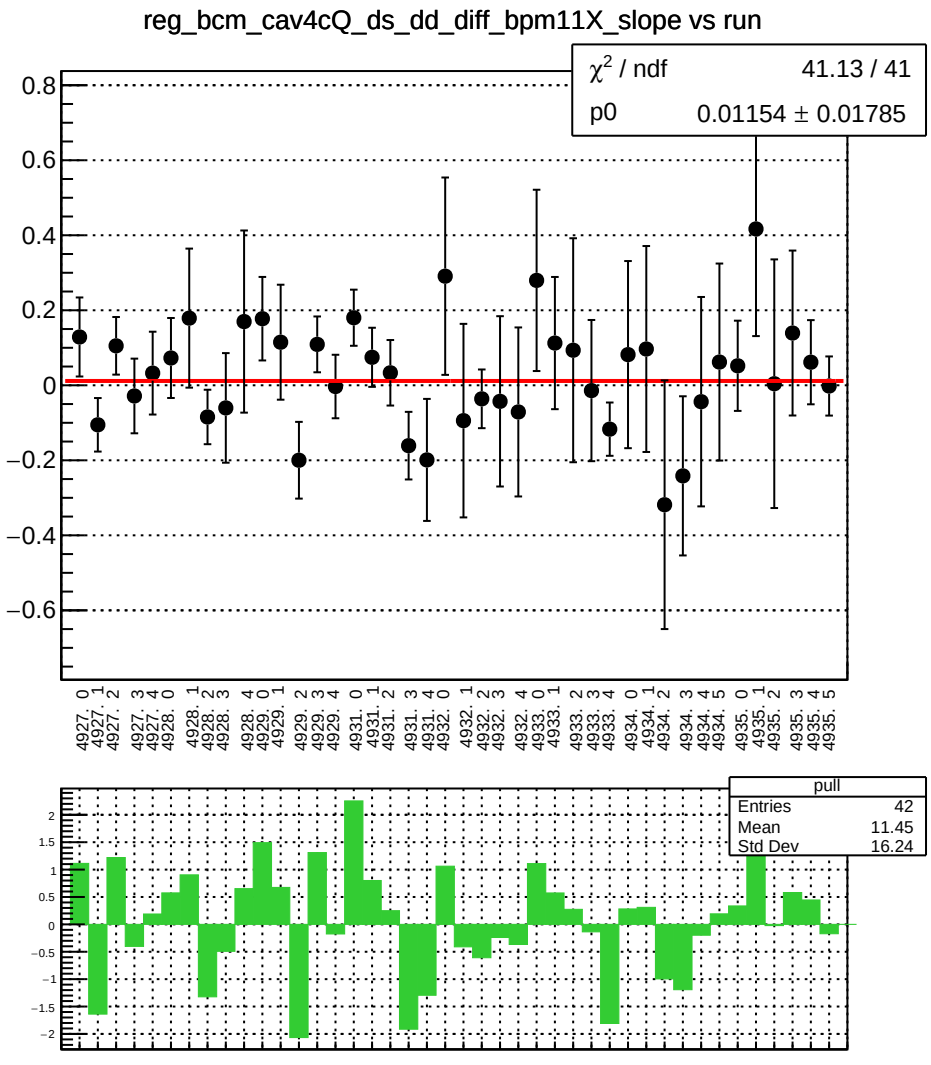

pull1D
Entries 42
Mean −0.07348
Std Dev 1.198

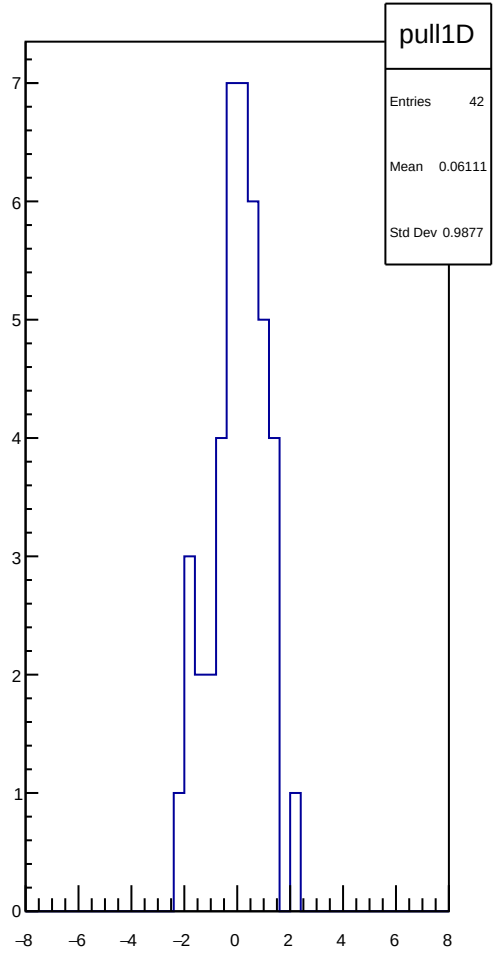

reg_bcm_cav4cQ_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.74 / 41
p0 0.5169 ± 0.06735
pull
Entries 42
Mean 78.15
Std Dev 53.39
pull1D
Entries 42
Mean −0.0483
Std Dev 1.065

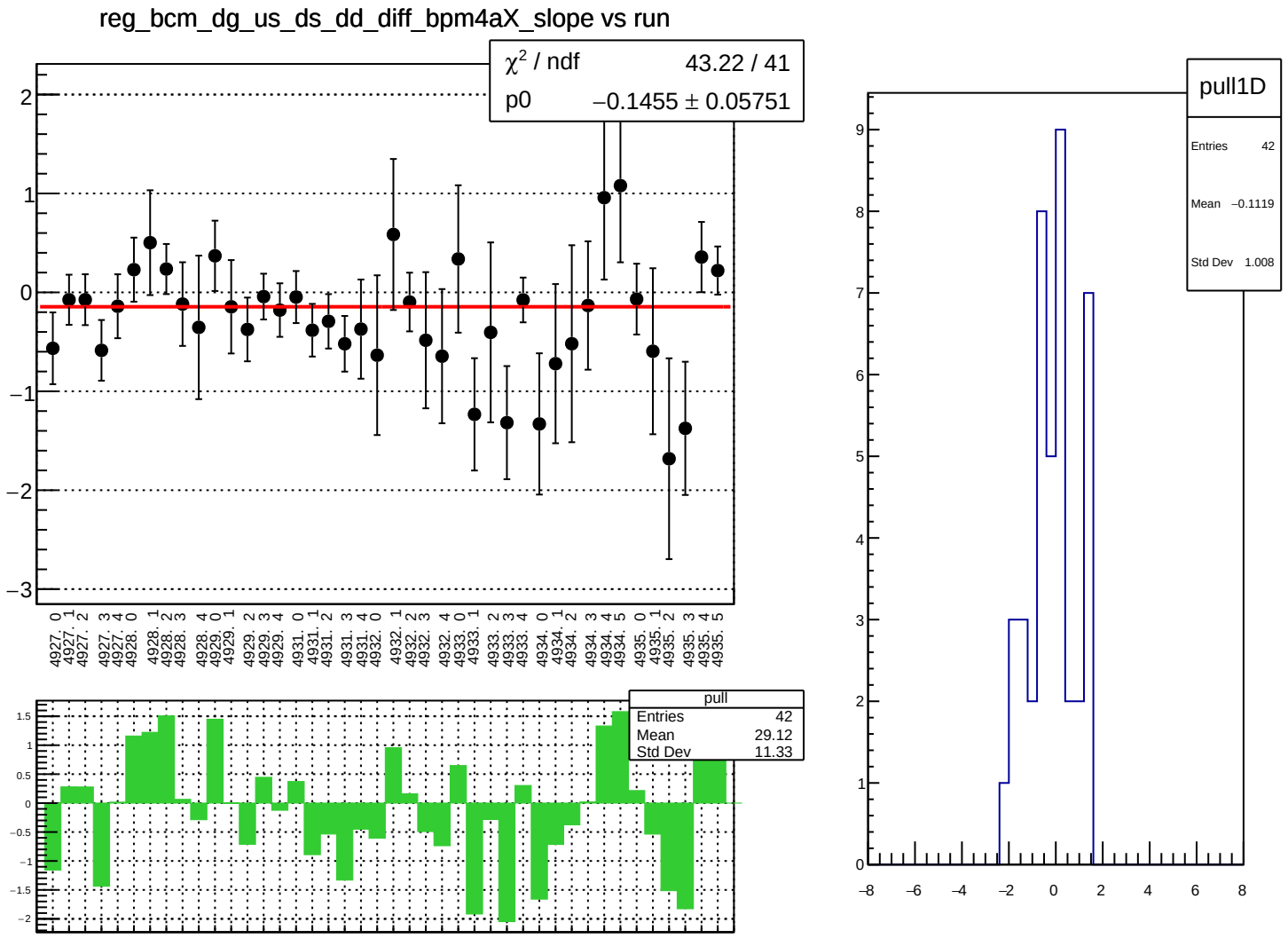

reg_bcm_cav4cQ_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 35.71 / 41
p0 0.1651± 0.01117
0.6
0.4
0.2
0
−0.2
4927. 0
4927. 1
4927. 2
4927. 3
4927. 4
4928. 0
4928. 1
4928. 2
4928. 3
4928. 4
4929. 0
4929. 1
4929. 2
4929. 3
4929. 4
4931. 0
4931. 1
4931. 2
4931. 3
4931. 4
4932. 0
4932. 1
4932. 2
4932. 3
4932. 4
4933. 0
4933. 1
4933. 2
4933. 3
4933. 4
4934. 0
4934. 1
4934. 2
4934. 3
4934. 4
4934. 5
4935. 0
4935. 1
4935. 2
4935. 3
4935. 4
4935. 5
pull
Entries 42
Mean −159.8
Std Dev 179.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2

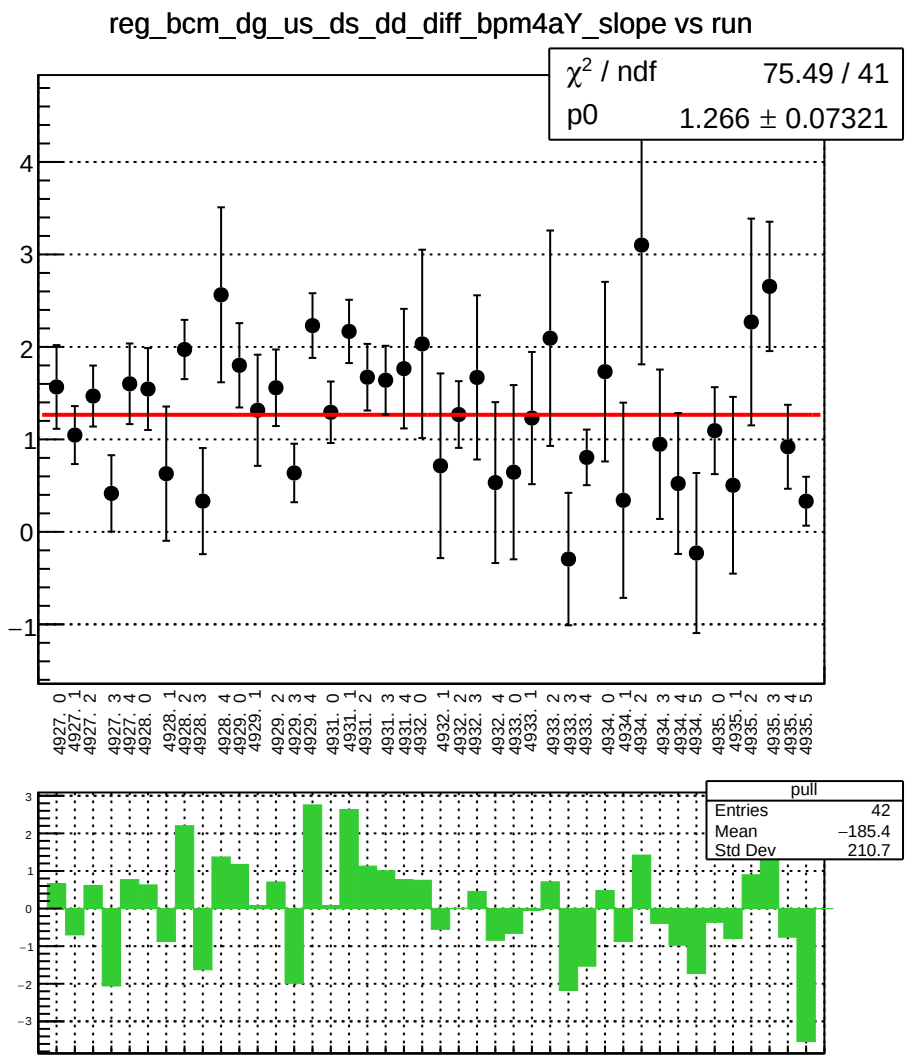

pull1D
Entries 42
Mean 0.01432
Std Dev 0.922
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

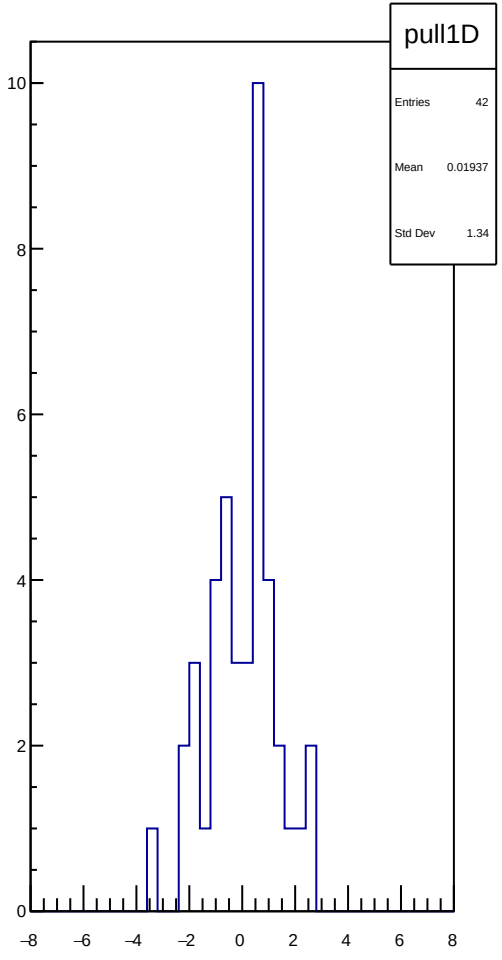

reg_bcm_cav4cQ_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 62.14 / 41
p0 −0.5916 ± 0.07653
pull
Entries 42
Mean 69.82
Std Dev 45.61
pull1D
Entries 42
Mean 0.0752
Std Dev 1.214

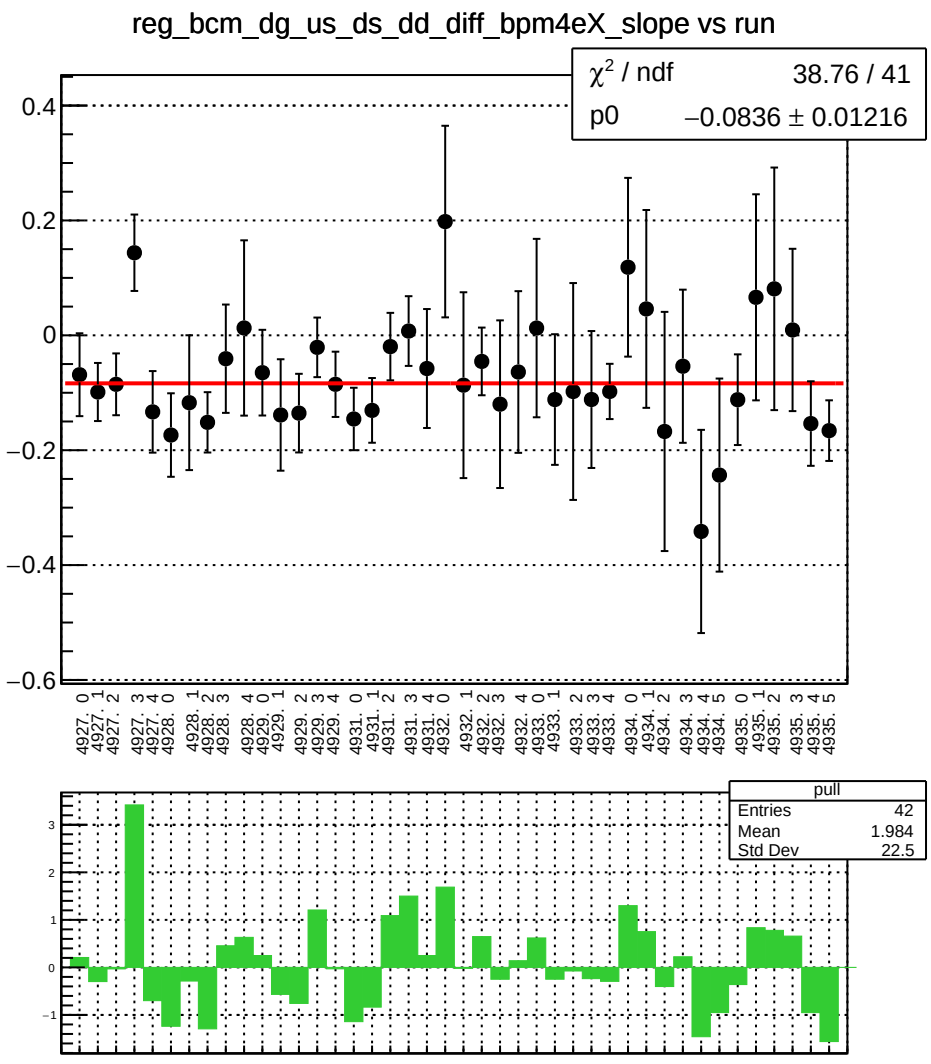

reg_bcm_cav4cQ_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 41.13 / 41
p0 0.01154 ± 0.01785
pull
Entries 42
Mean 11.45
Std Dev 16.24

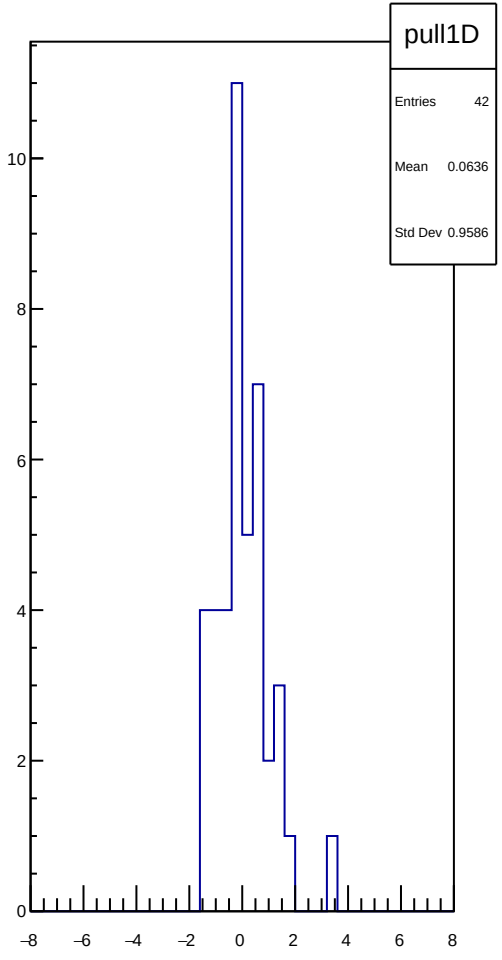

pull1D
Entries 42
Mean 0.06111
Std Dev 0.9877

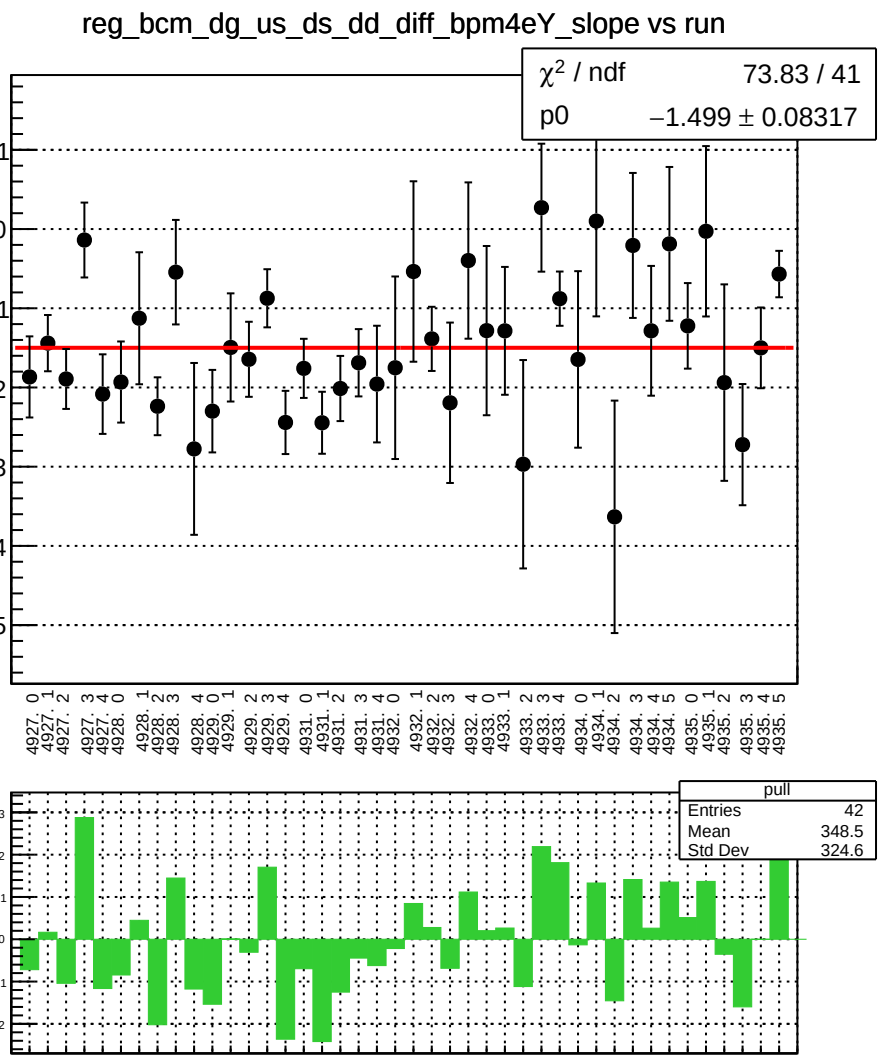

reg_bcm_dg_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 43.22 / 41
p0 −0.1455 ± 0.05751
pull
Entries 42
Mean 29.12
Std Dev 11.33
pull1D
Entries 42
Mean −0.1119
Std Dev 1.008

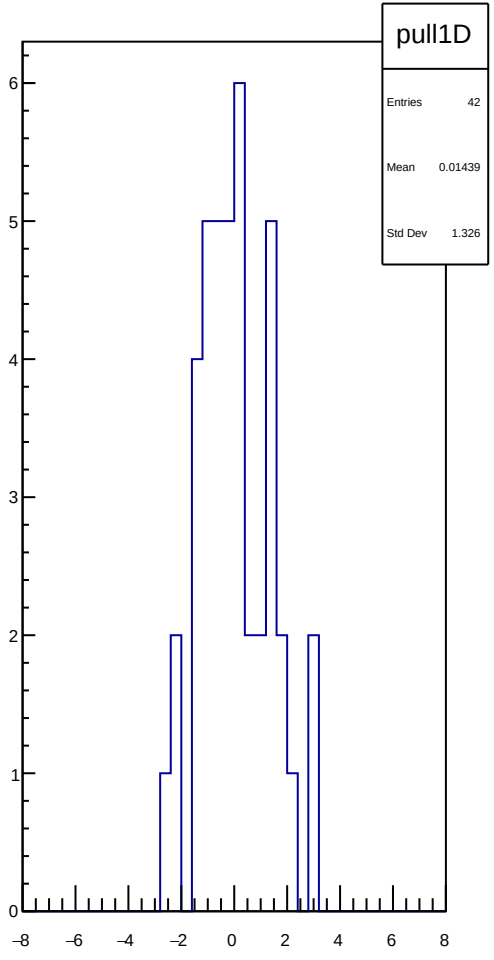

reg_bcm_dg_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 75.49 / 41
p0 1.266 ± 0.07321
pull
Entries 42
Mean −185.4
Std Dev 210.7

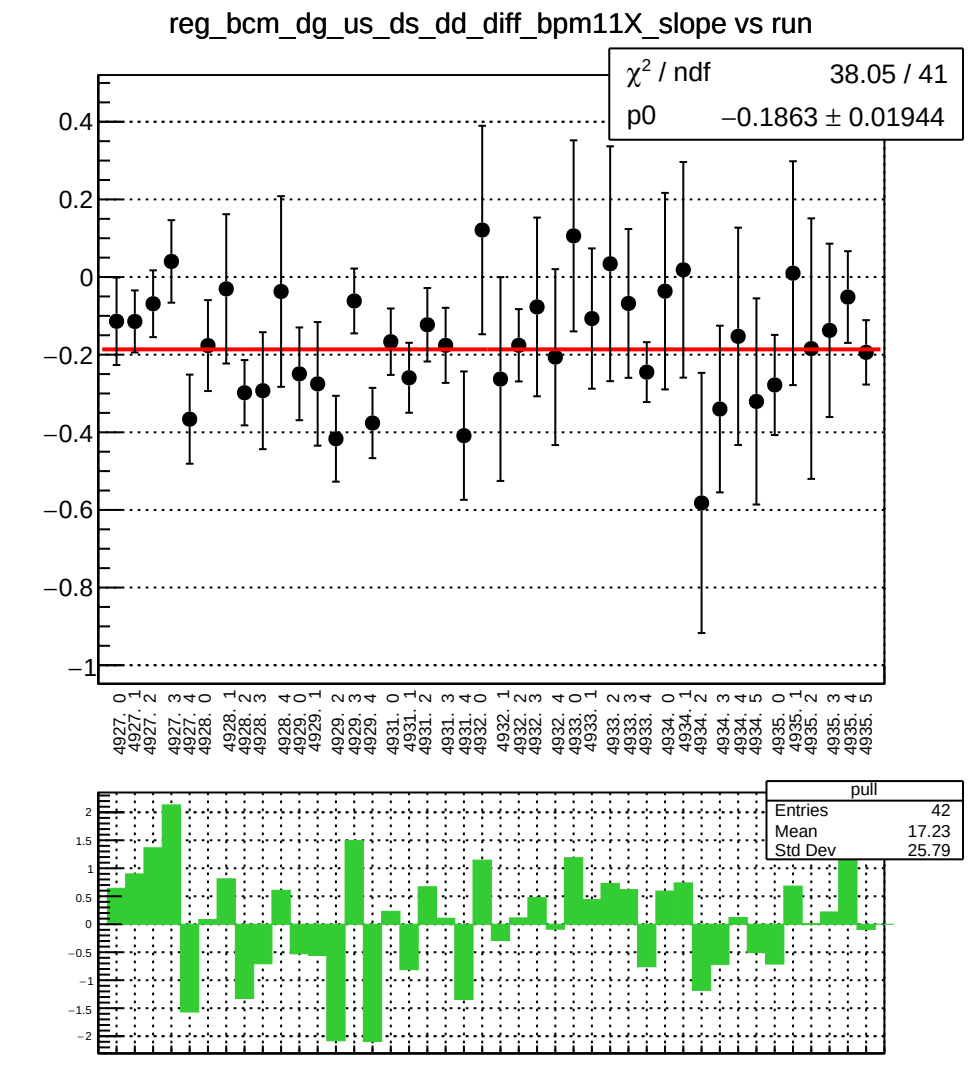

pull1D
Entries 42
Mean 0.01937
Std Dev 1.34

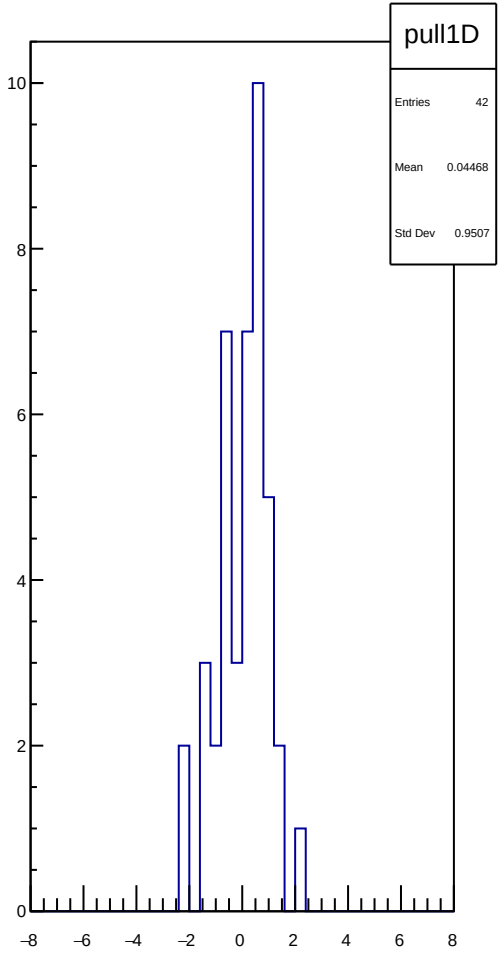

reg_bcm_dg_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 38.76 / 41
p0 −0.0836 ± 0.01216
pull
Entries 42
Mean 1.984
Std Dev 22.5

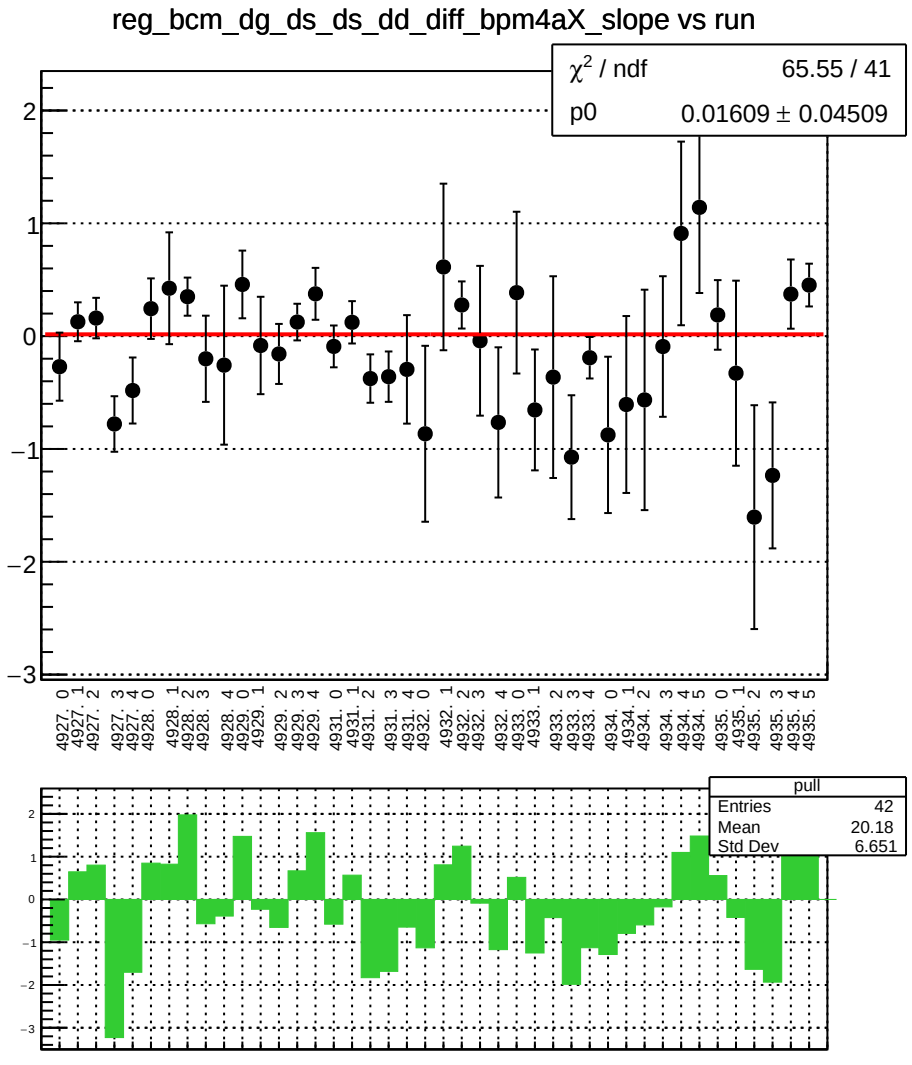

pull1D
Entries 42
Mean 0.0636
Std Dev 0.9586

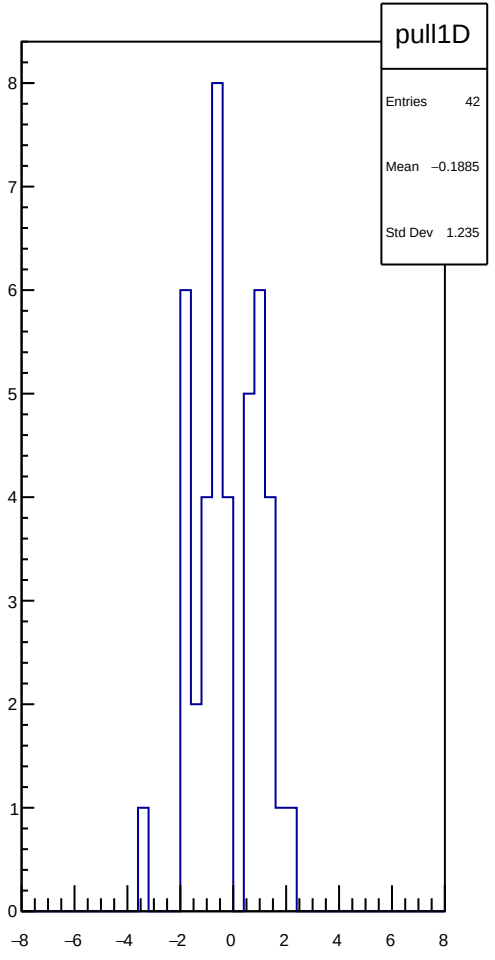

reg_bcm_dg_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 73.83 / 41
p0 −1.499 ± 0.08317
pull
Entries 42
Mean 348.5
Std Dev 324.6

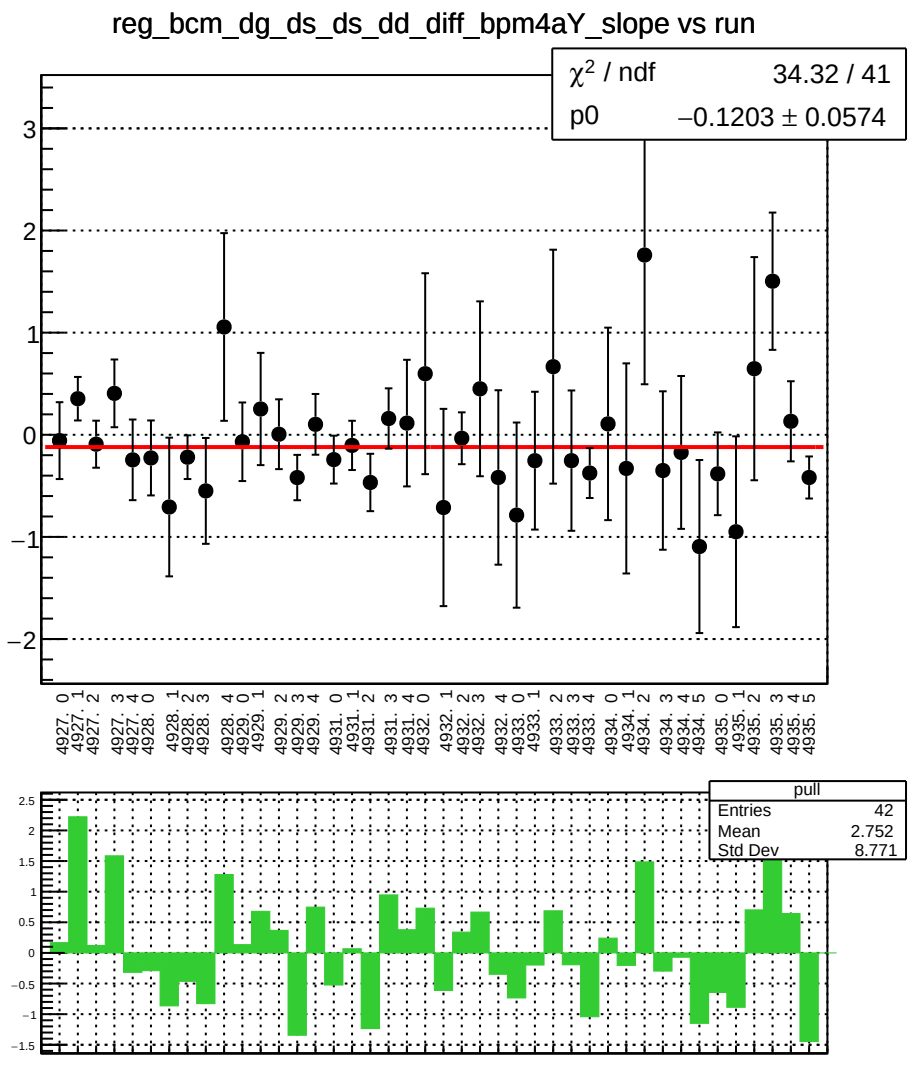

pull1D
Entries 42
Mean 0.01439
Std Dev 1.326

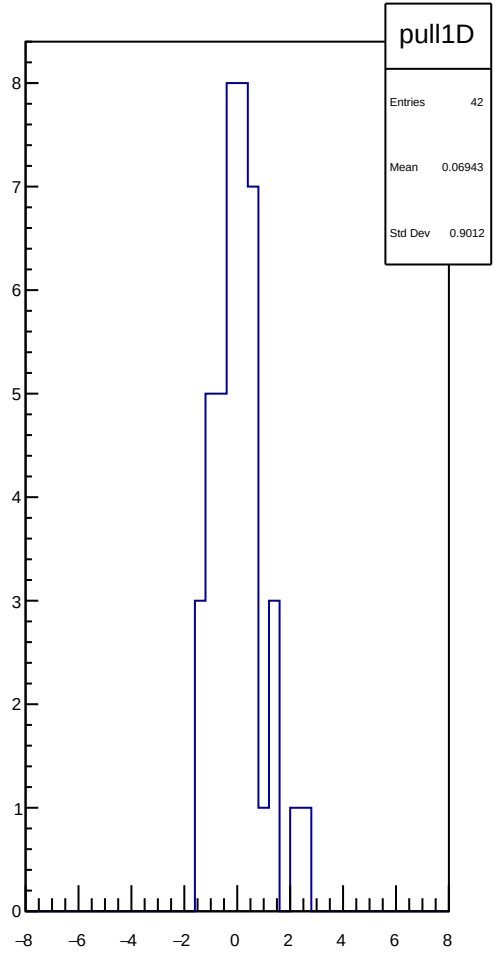

reg_bcm_dg_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 38.05 / 41
p0 −0.1863 ± 0.01944
pull
Entries 42
Mean 17.23
Std Dev 25.79

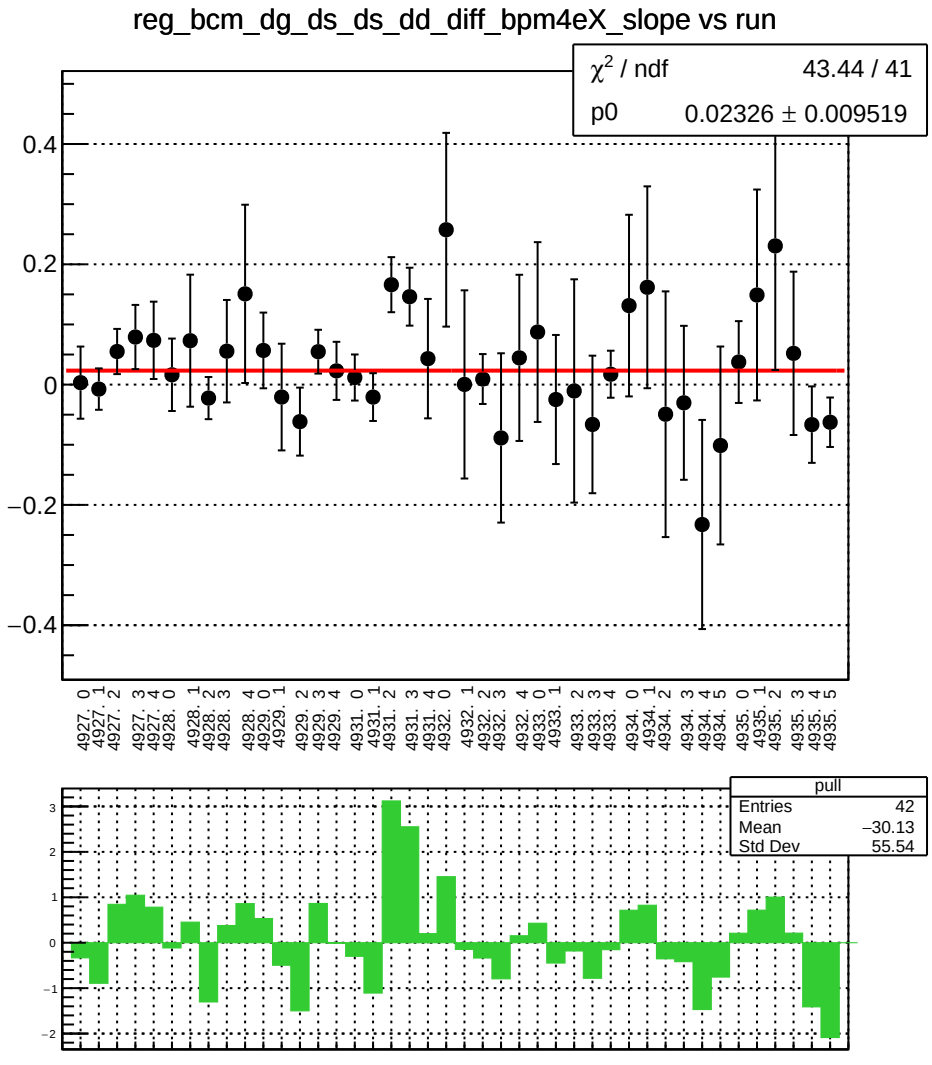

pull1D
Entries 42
Mean 0.04468
Std Dev 0.9507

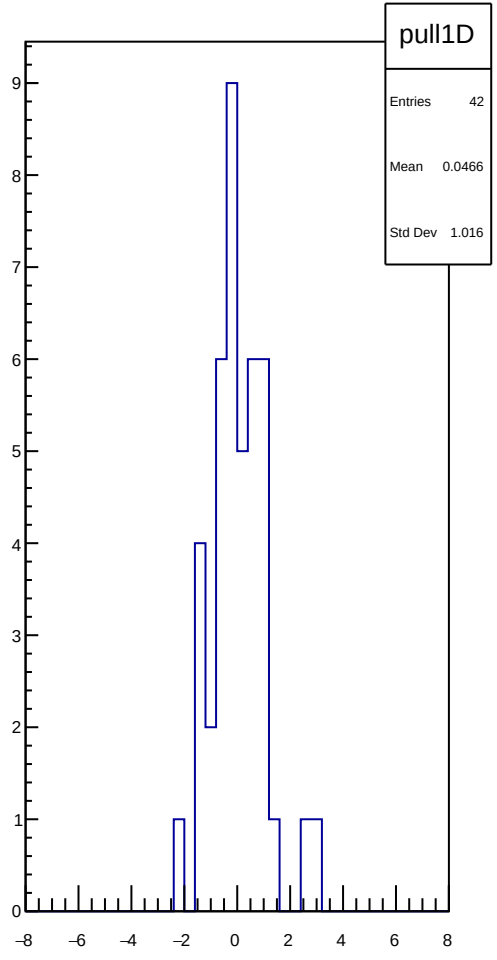

reg_bcm_dg_ds_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 65.55 / 41
p0 0.01609 ± 0.04509
pull
Entries 42
Mean 20.18
Std Dev 6.651

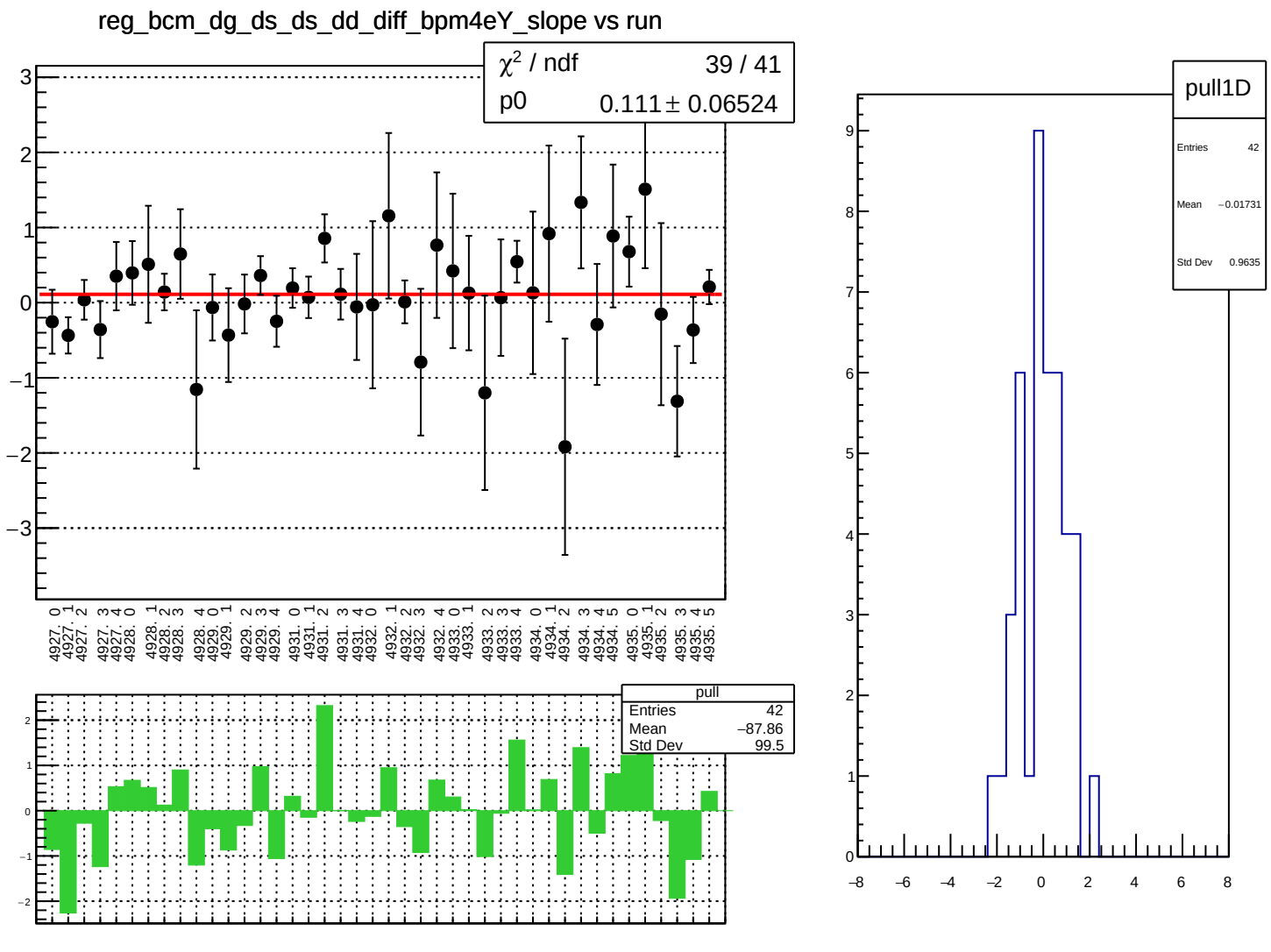

pull1D
Entries 42
Mean −0.1885
Std Dev 1.235

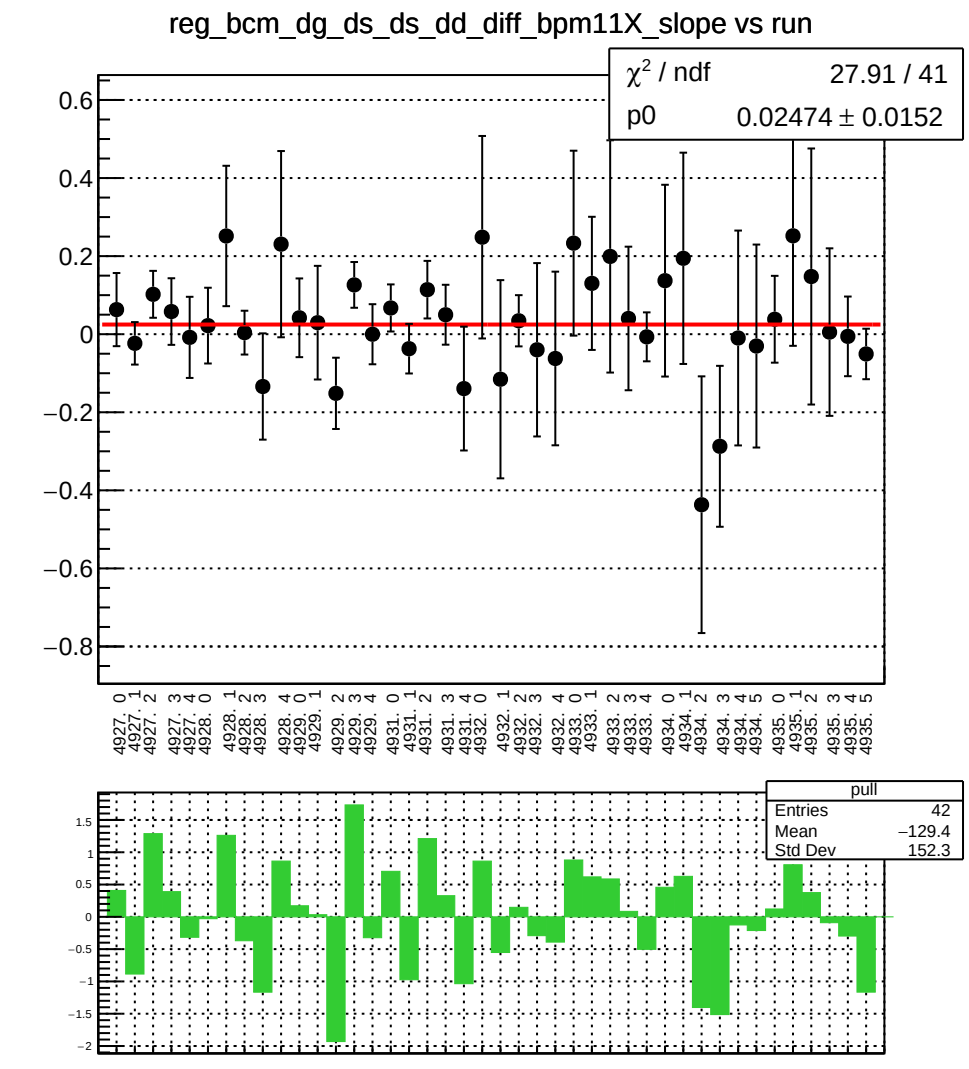

reg_bcm_dg_ds_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 34.32 / 41
p0 −0.1203 ± 0.0574
pull
Entries 42
Mean 2.752
Std Dev 8.771

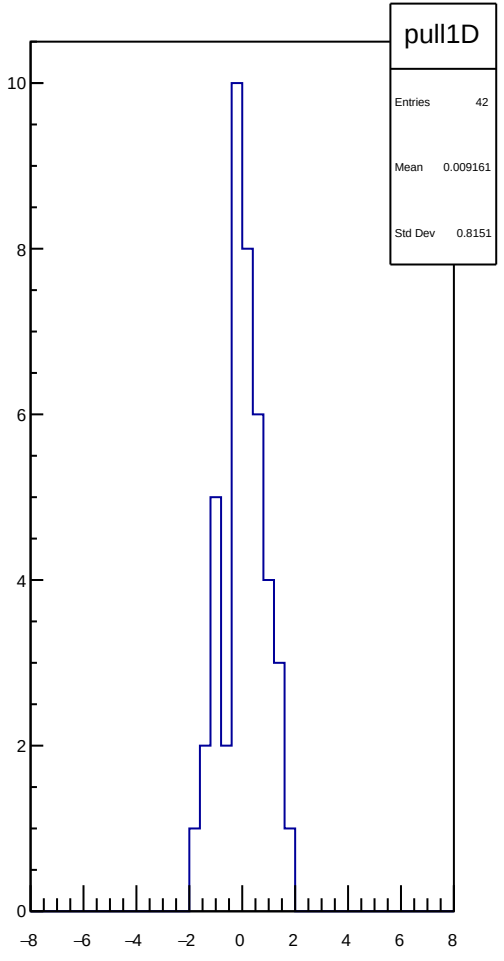

pull1D
Entries 42
Mean 0.06943
Std Dev 0.9012


reg_bcm_dg_ds_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 43.44 / 41
p0 0.02326 ± 0.009519
pull
Entries 42
Mean −30.13
Std Dev 55.54


pull1D
Entries 42
Mean 0.0466
Std Dev 1.016


reg_bcm_dg_ds_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 39 / 41
p0 0.111 ± 0.06524
pull
Entries 42
Mean −87.86
Std Dev 99.5
pull1D
Entries 42
Mean −0.01731
Std Dev 0.9635


reg_bcm_dg_ds_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 27.91 / 41
p0 0.02474 ± 0.0152
pull
Entries 42
Mean −129.4
Std Dev 152.3


pull1D
Entries 42
Mean 0.009161
Std Dev 0.8151