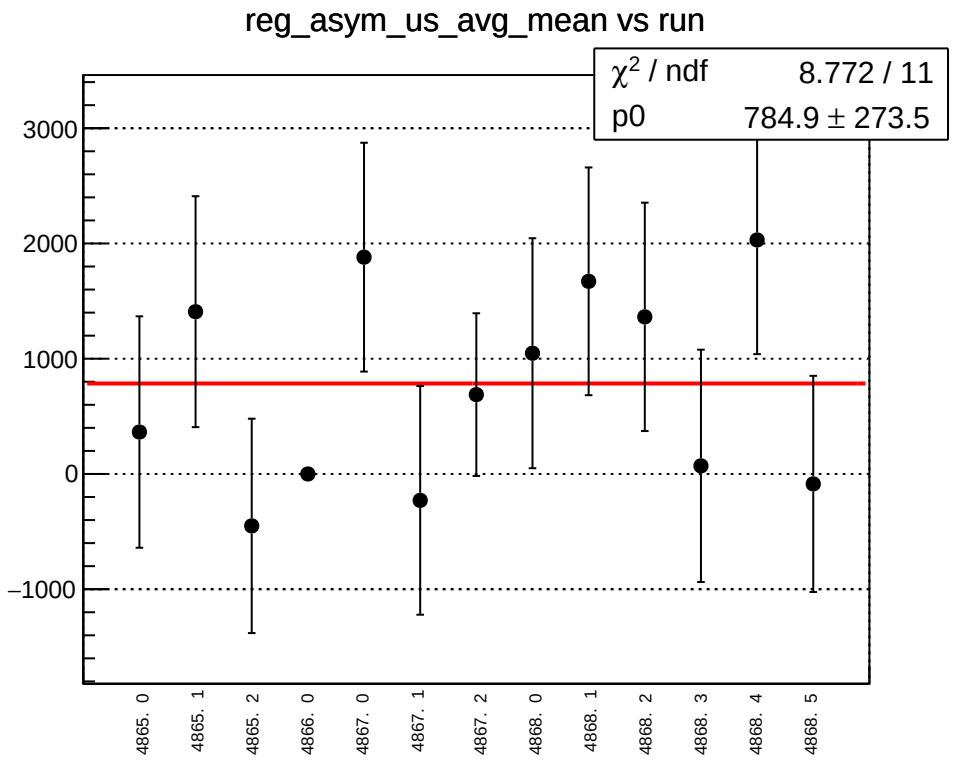
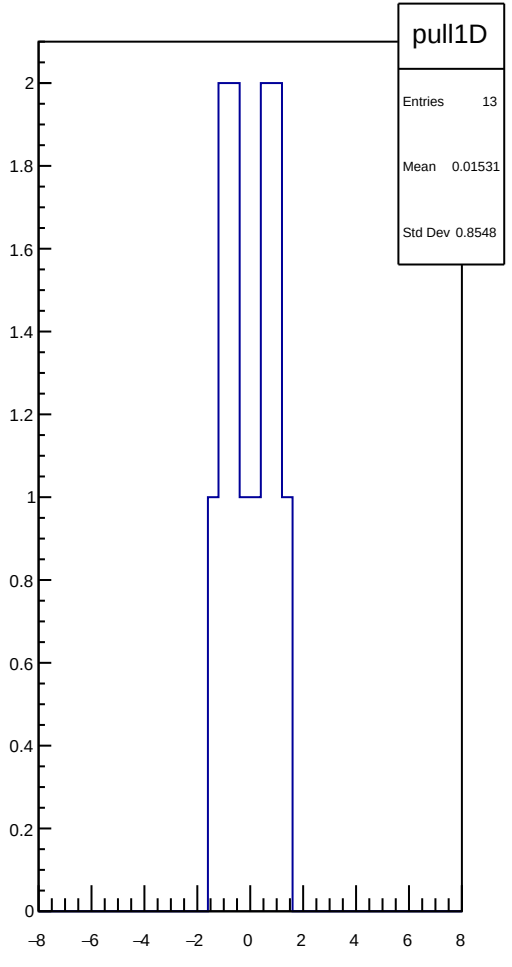
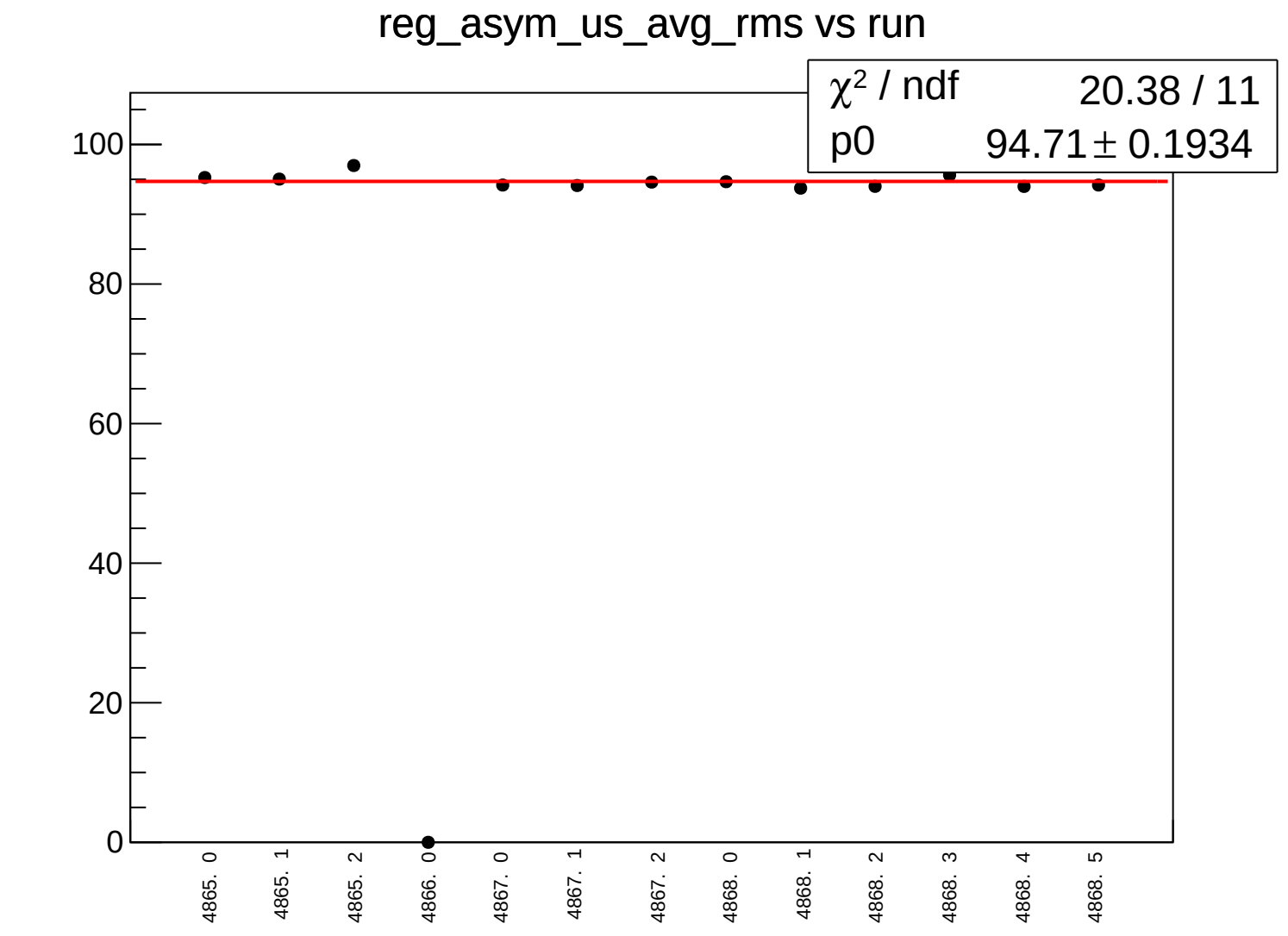
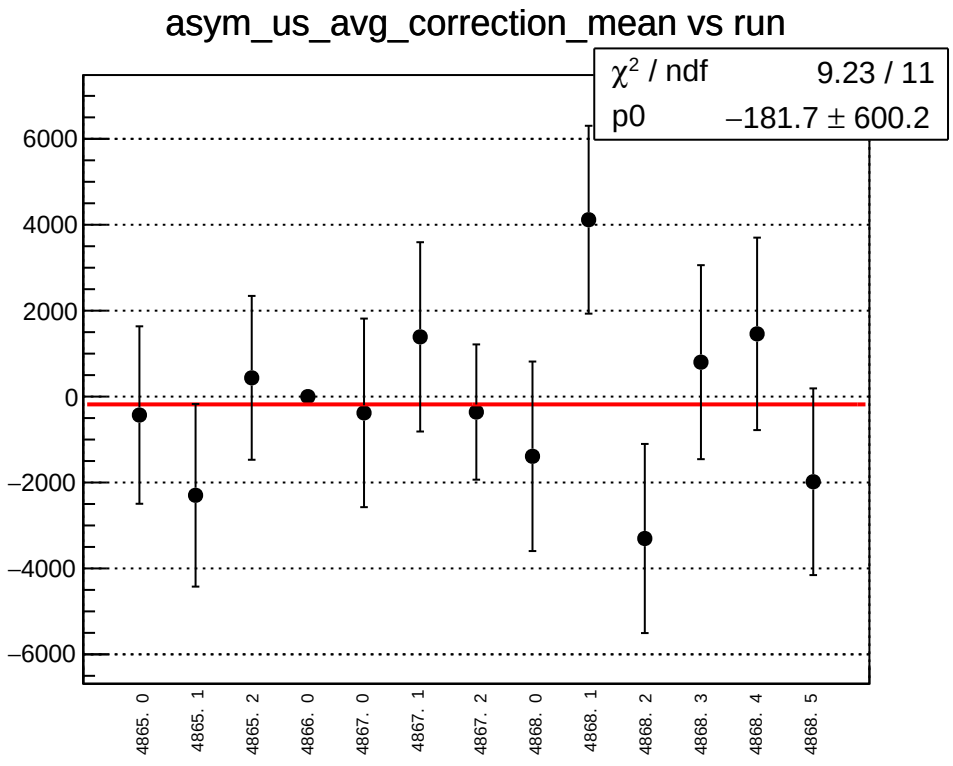
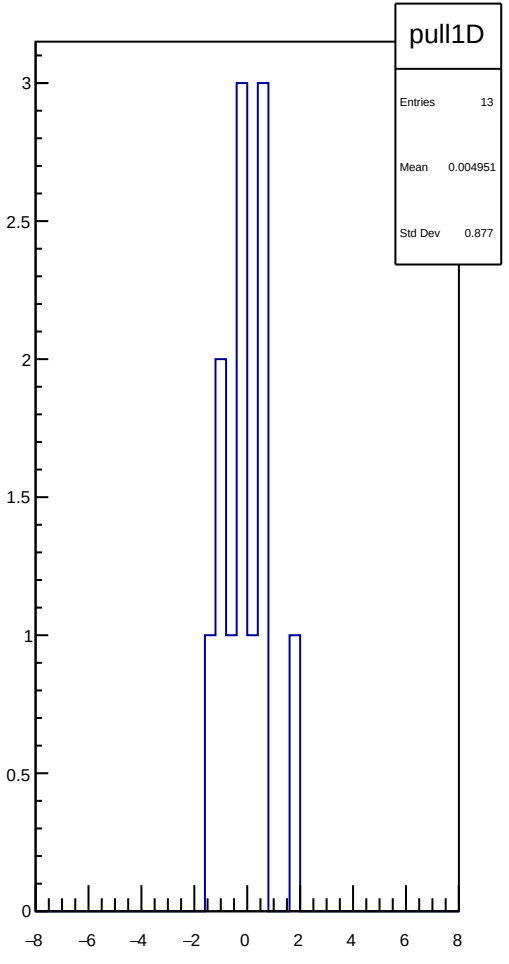
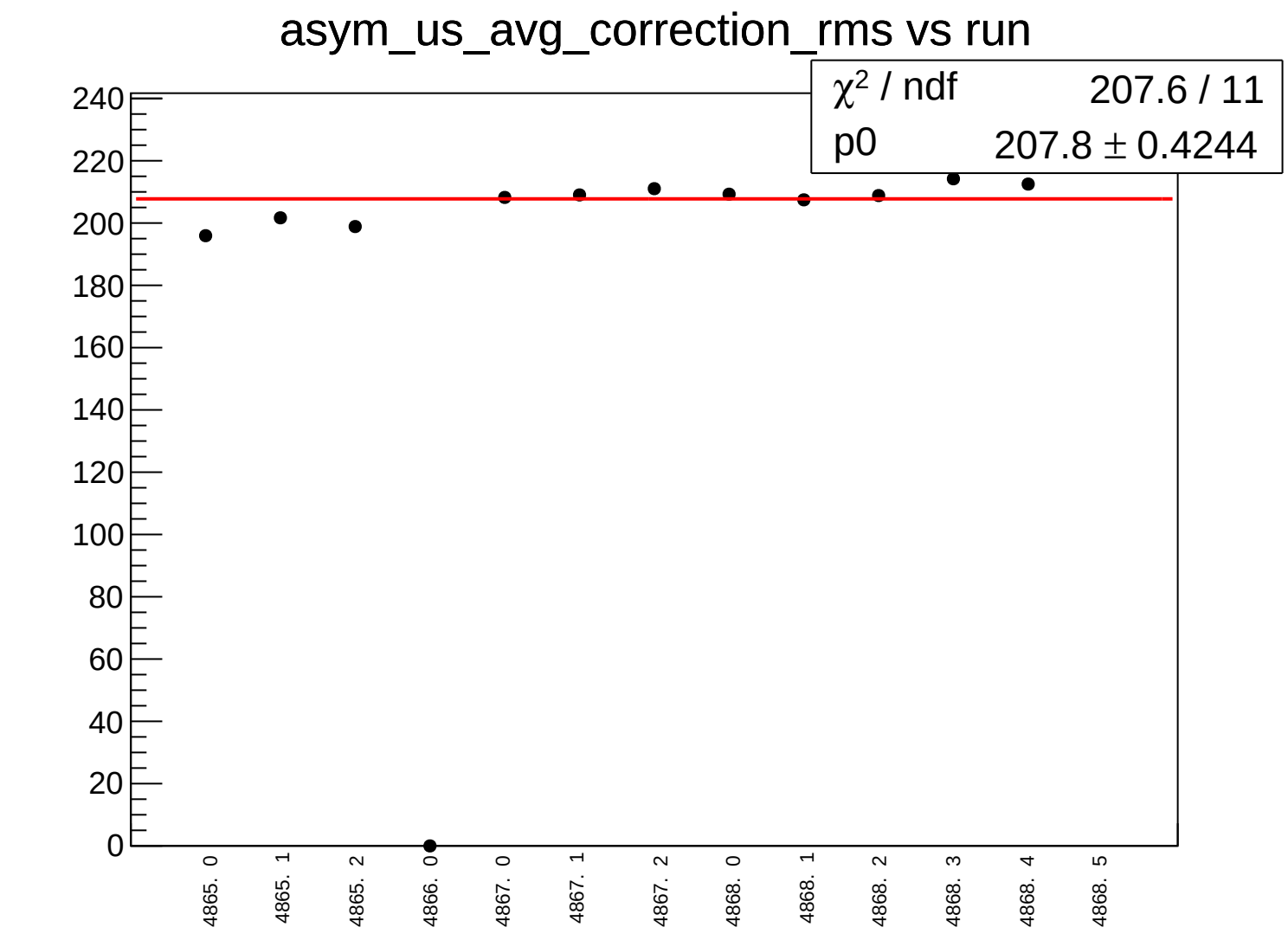

reg_asym_us_avg_mean vs run
χ² / ndf 8.772 / 11
p0 784.9 ± 273.5
3000
2000
1000
0
−1000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

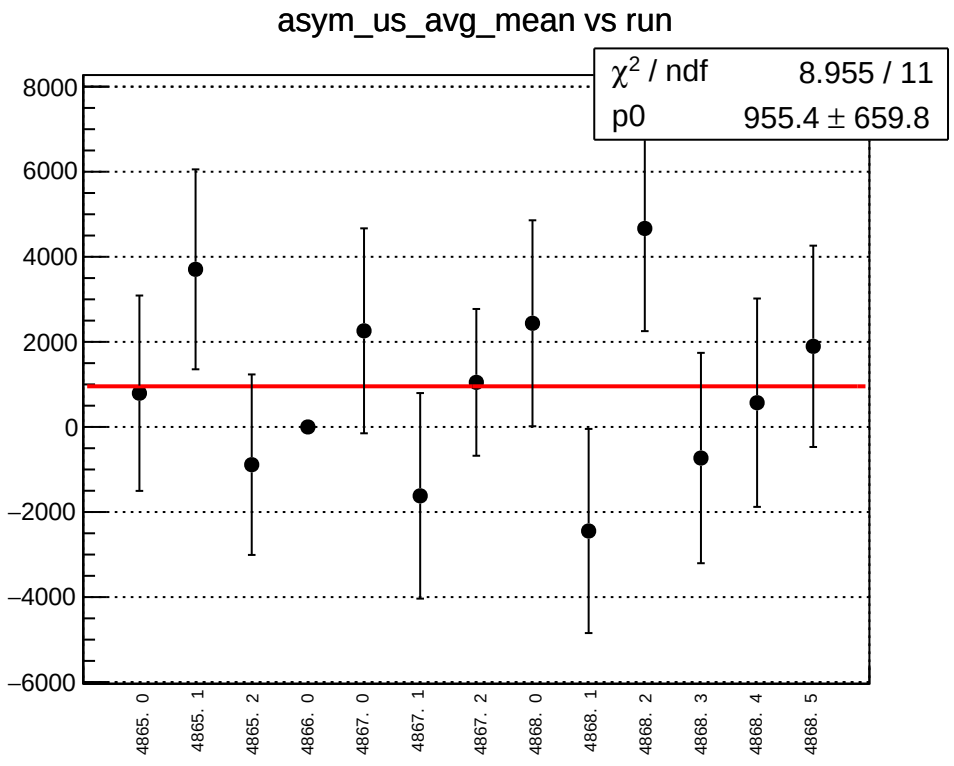

pull1D
Entries 13
Mean 0.01531
Std Dev 0.8548
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

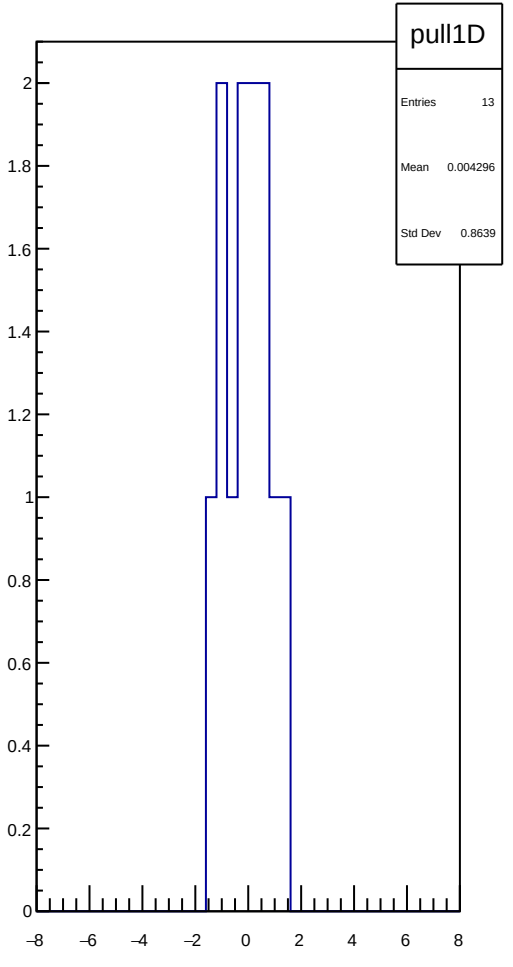

reg_asym_us_avg_rms vs run
χ² / ndf 20.38 / 11
p0 94.71 ± 0.1934
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

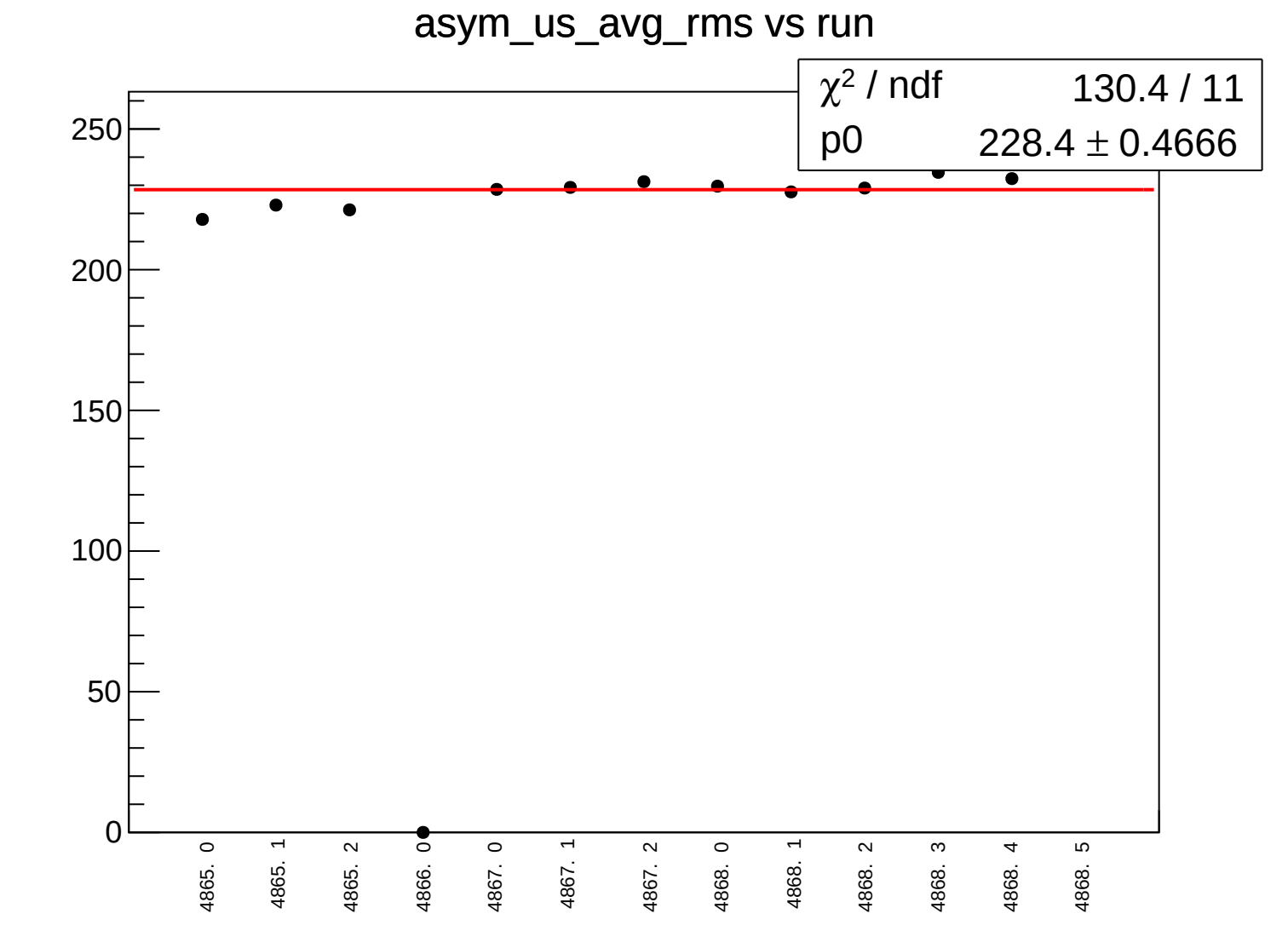

asym_us_avg_correction_mean vs run
χ² / ndf 9.23 / 11
p0 −181.7 ± 600.2
6000
4000
2000
0
−2000
−4000
−6000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

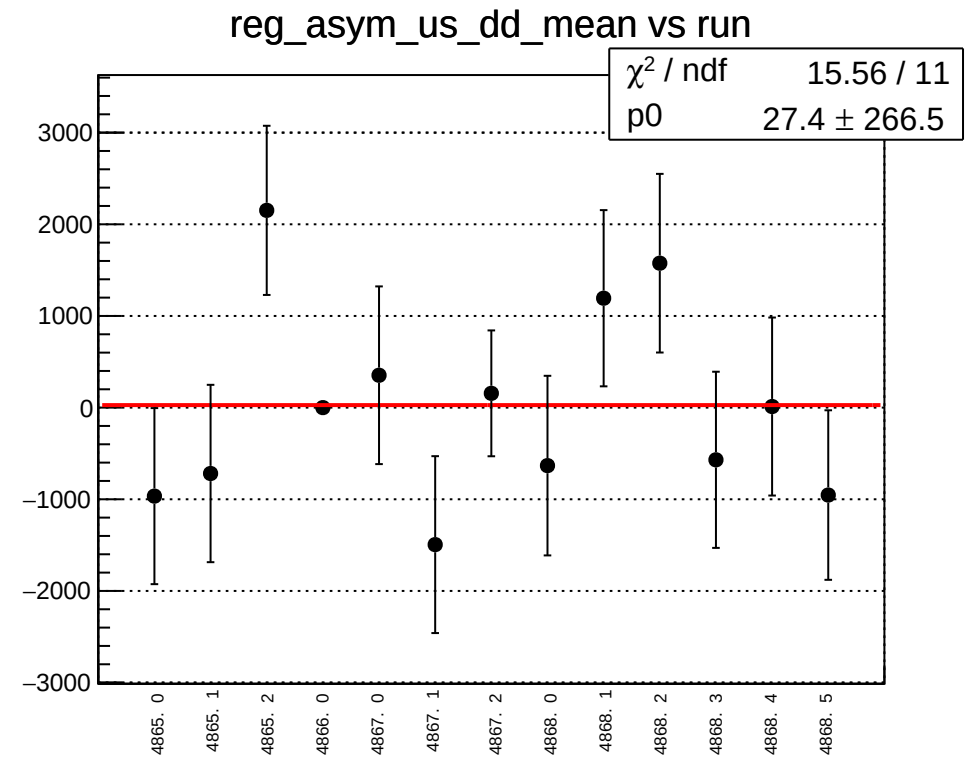

pull1D
Entries 13
Mean 0.004951
Std Dev 0.877
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

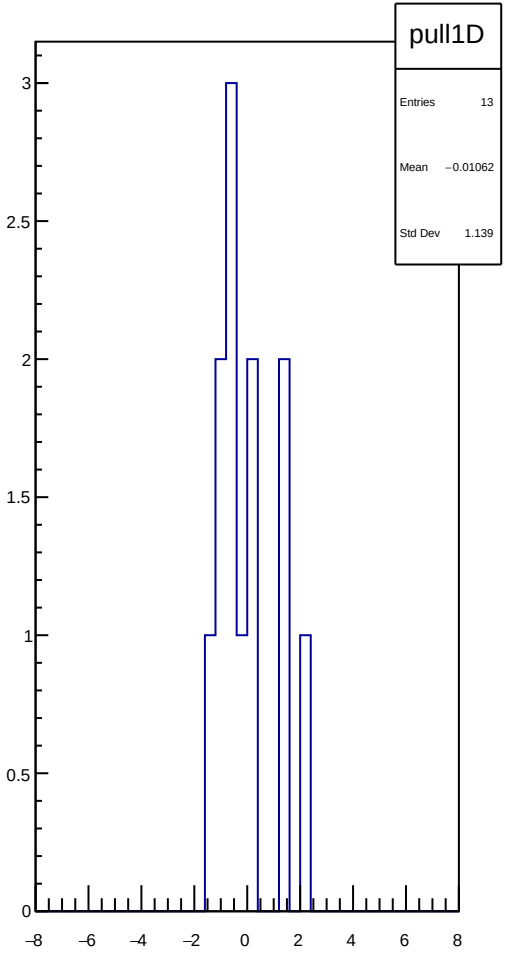

asym_us_avg_correction_rms vs run
χ² / ndf 207.6 / 11
p0 207.8 ± 0.4244
240
220
200
180
160
140
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

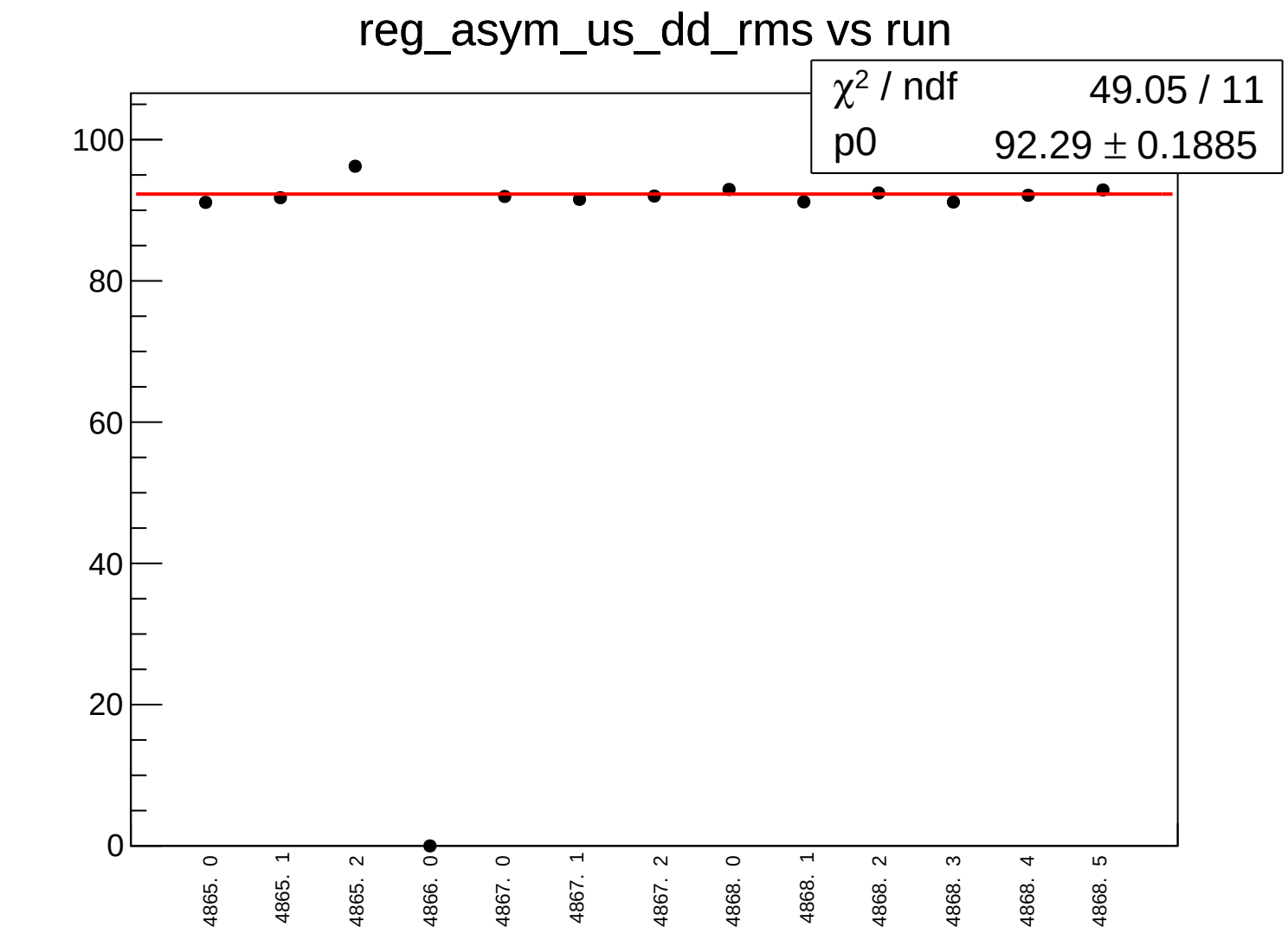

asym_us_avg_mean vs run
χ² / ndf 8.955 / 11
p0 955.4 ± 659.8
8000
6000
4000
2000
0
−2000
−4000
−6000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.004296
Std Dev 0.8639
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_rms vs run
χ^2 / ndf 130.4 / 11
p0 228.4 ± 0.4666
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


reg_asym_us_dd_mean vs run
χ² / ndf 15.56 / 11
p0 27.4 ± 266.5
3000
2000
1000
0
−1000
−2000
−3000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.01062
Std Dev 1.139
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_dd_rms vs run
χ² / ndf 49.05 / 11
p0 92.29 ± 0.1885
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
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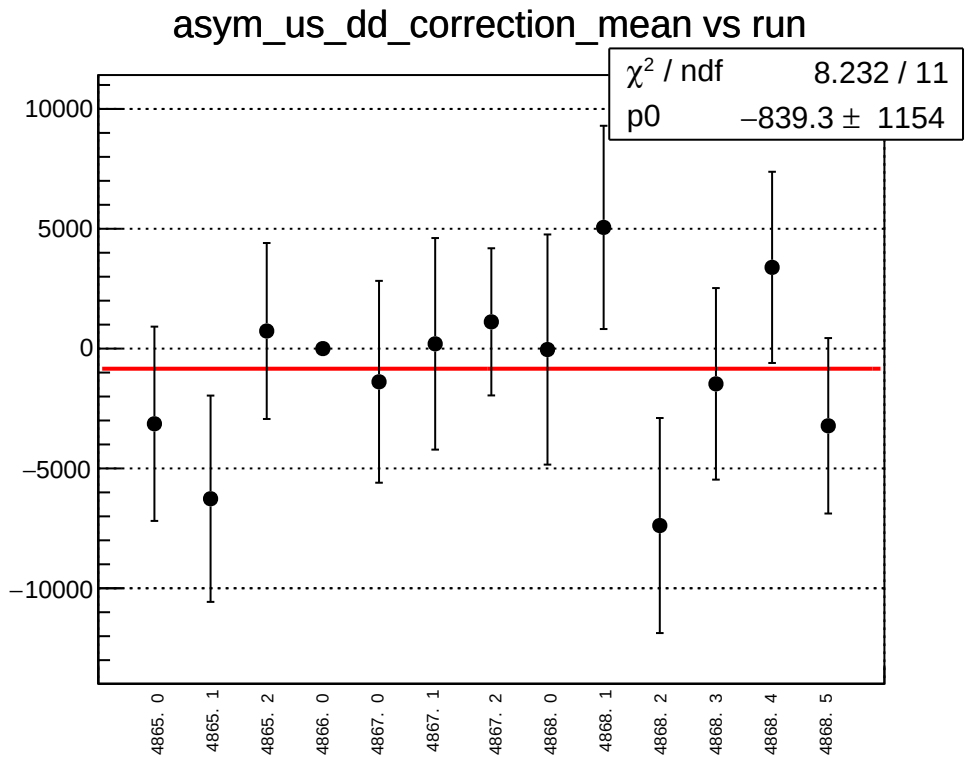
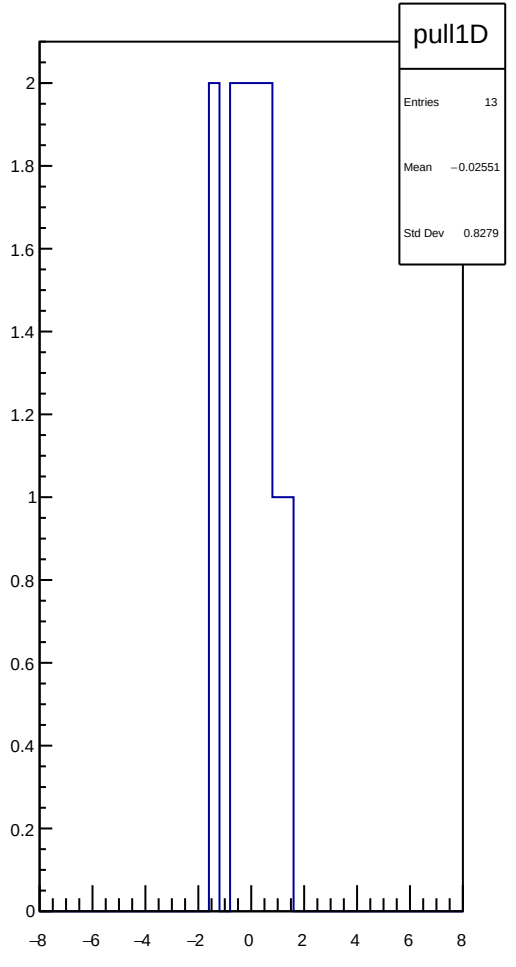
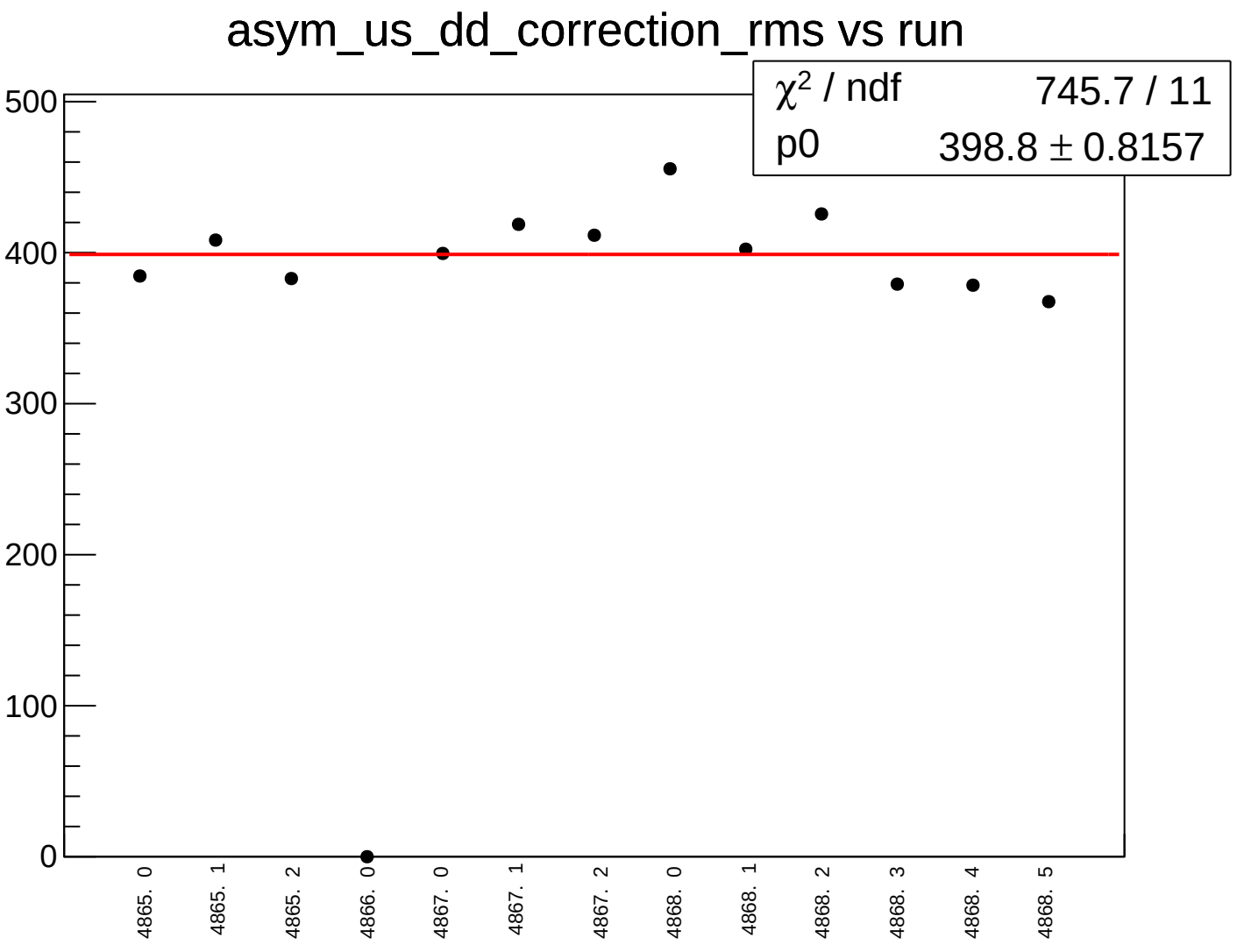
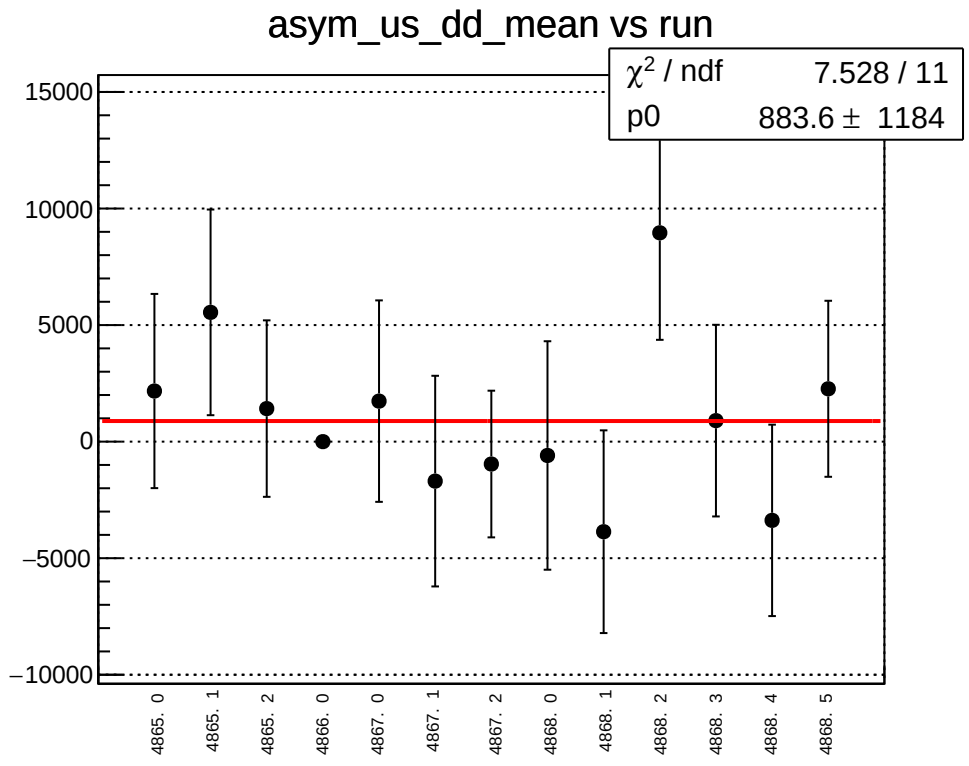
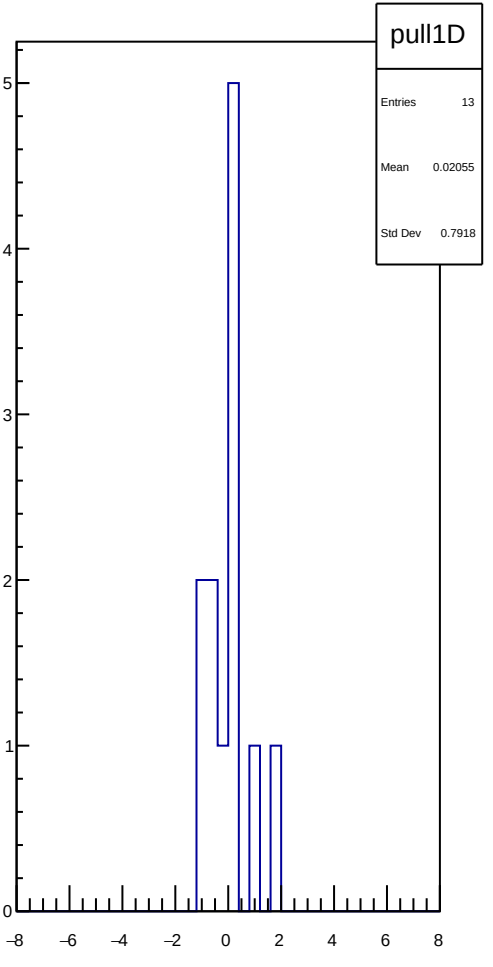
4868. 2
4868. 3
4868. 4
4868. 5

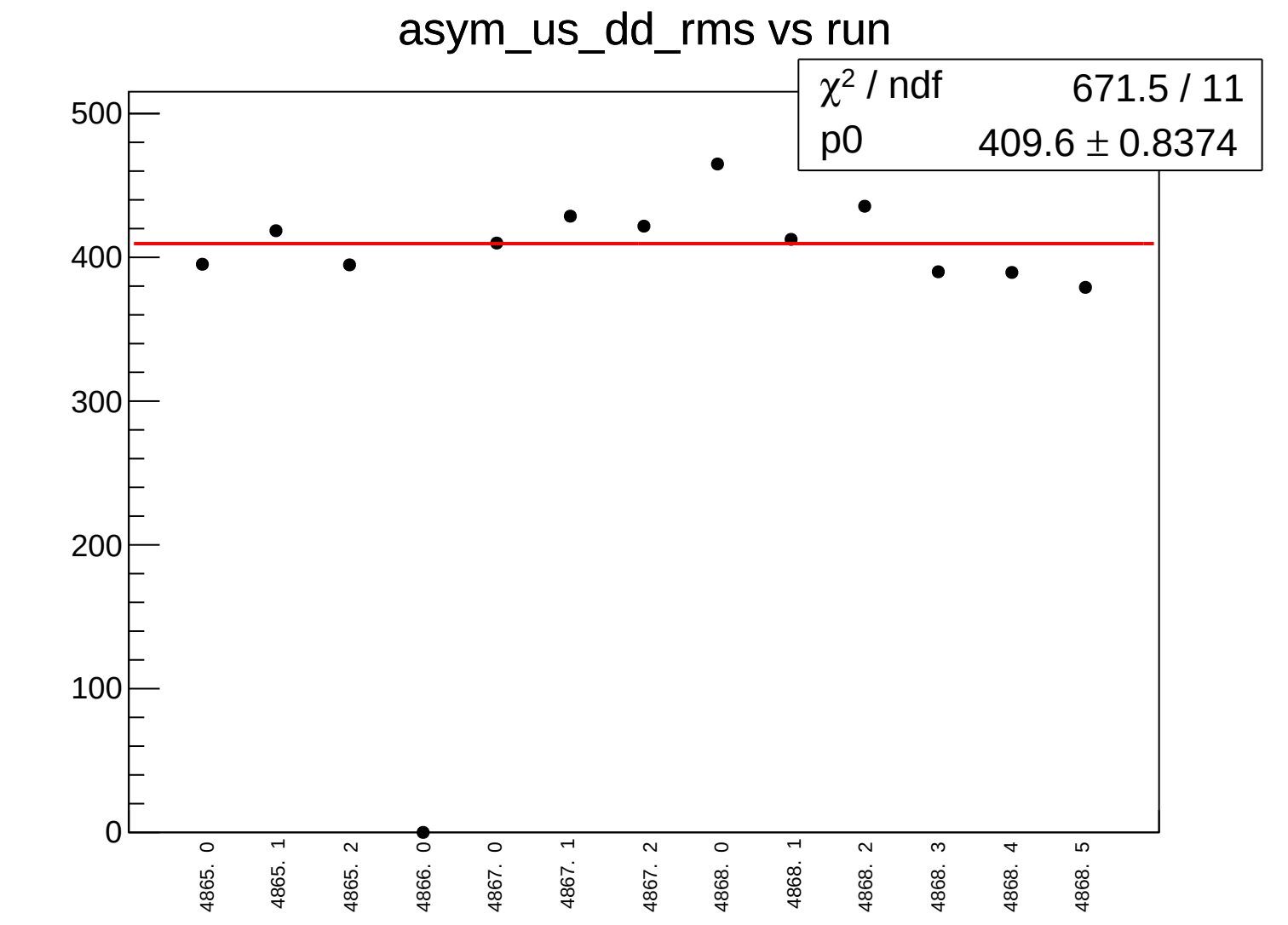

asym_us_dd_correction_mean vs run
χ² / ndf 8.232 / 11
p0 −839.3 ± 1154
10000
5000
0
−5000
−10000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

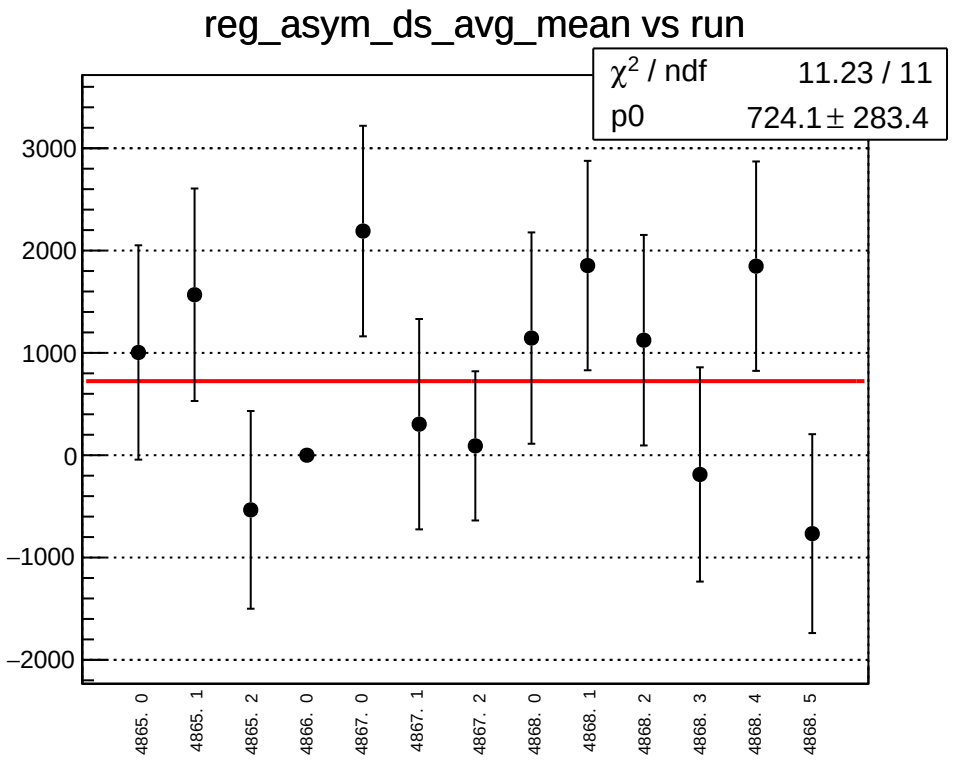

pull1D
Entries 13
Mean −0.02551
Std Dev 0.8279
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

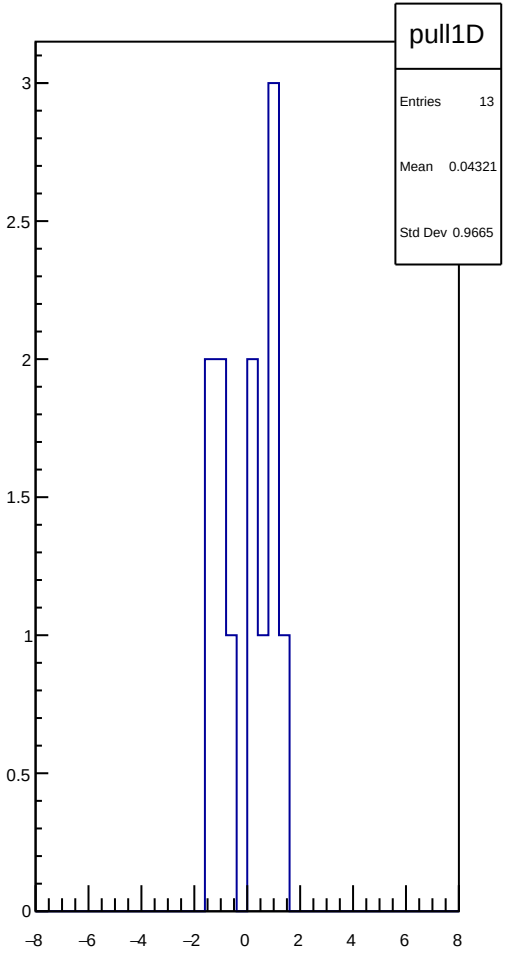

asym_us_dd_correction_rms vs run
χ² / ndf 745.7 / 11
p0 398.8 ± 0.8157
500
400
300
200
100
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

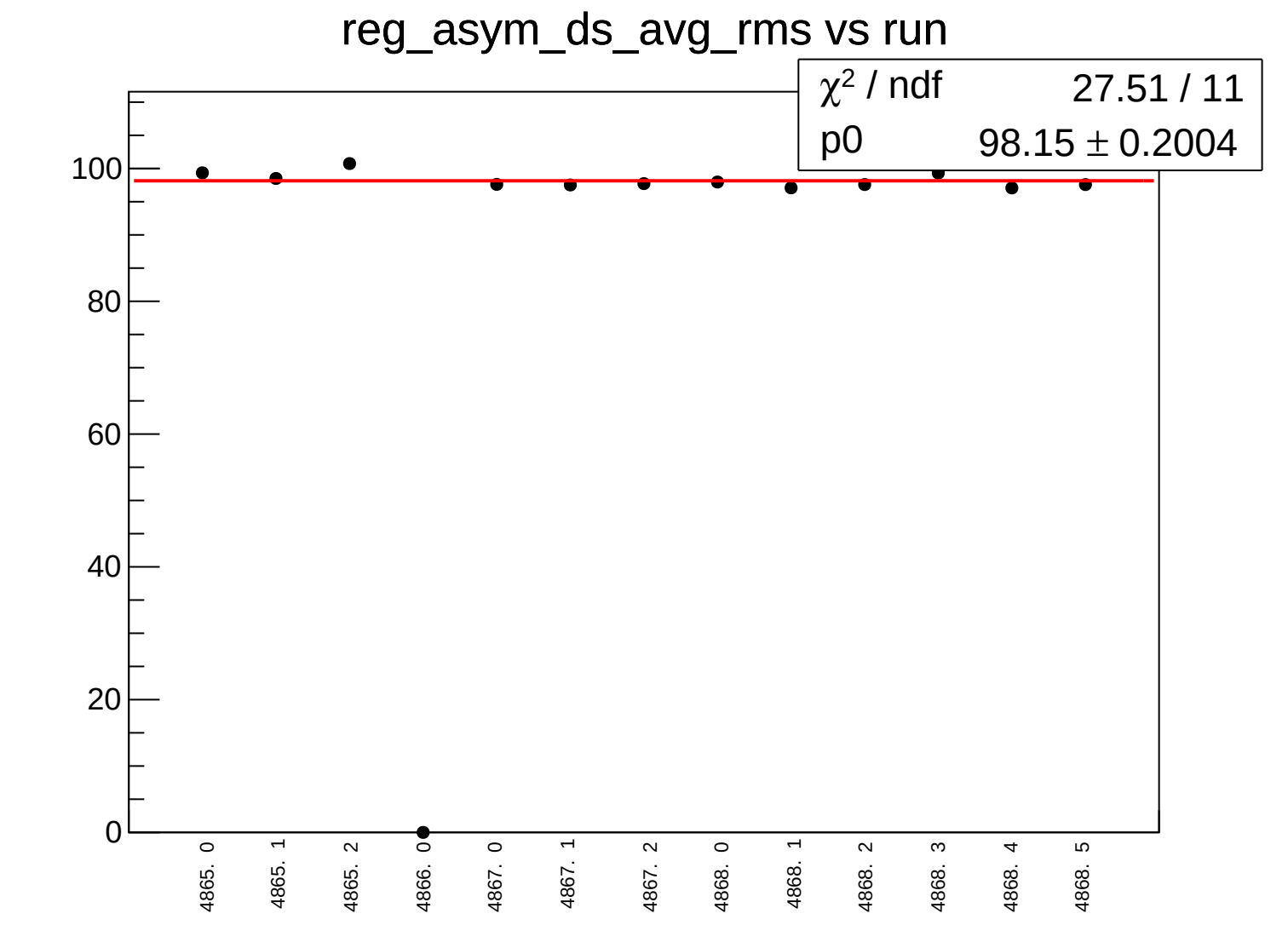

asym_us_dd_mean vs run
χ² / ndf 7.528 / 11
p0 883.6 ± 1184
15000
10000
5000
0
−5000
−10000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

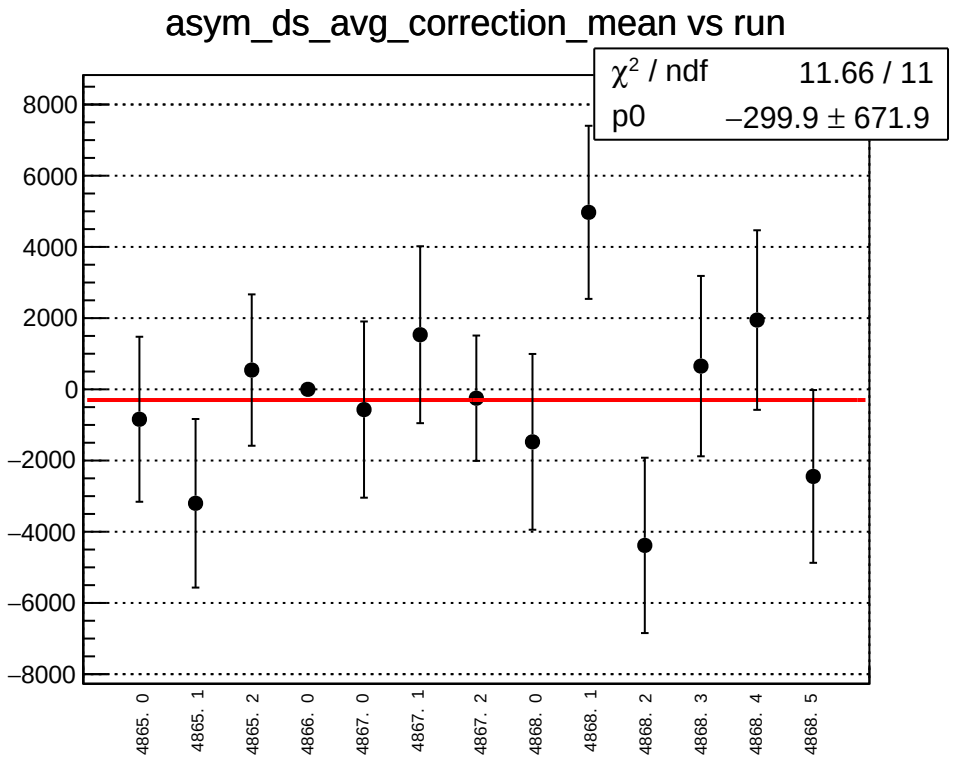

pull1D
Entries 13
Mean 0.02055
Std Dev 0.7918
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

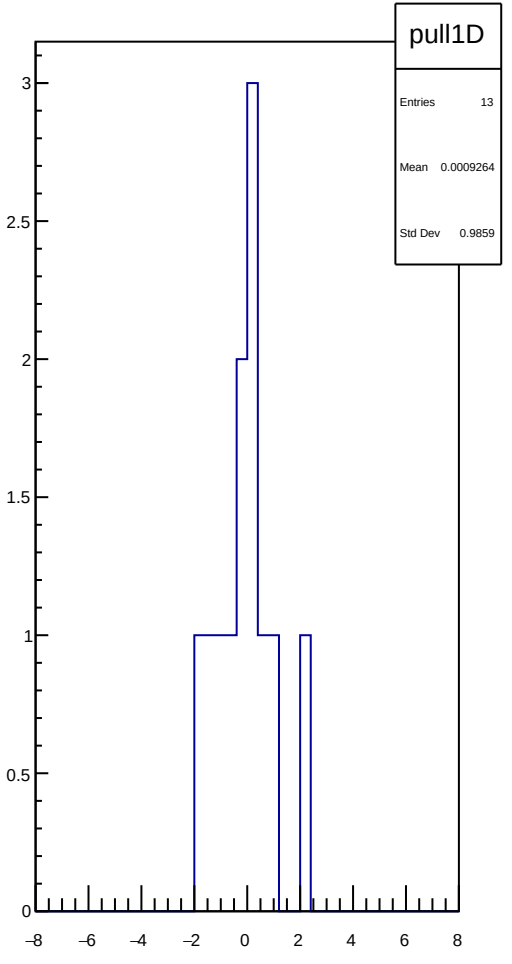

asym_us_dd_rms vs run
χ² / ndf 671.5 / 11
p0 409.6 ± 0.8374
500
400
300
200
100
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

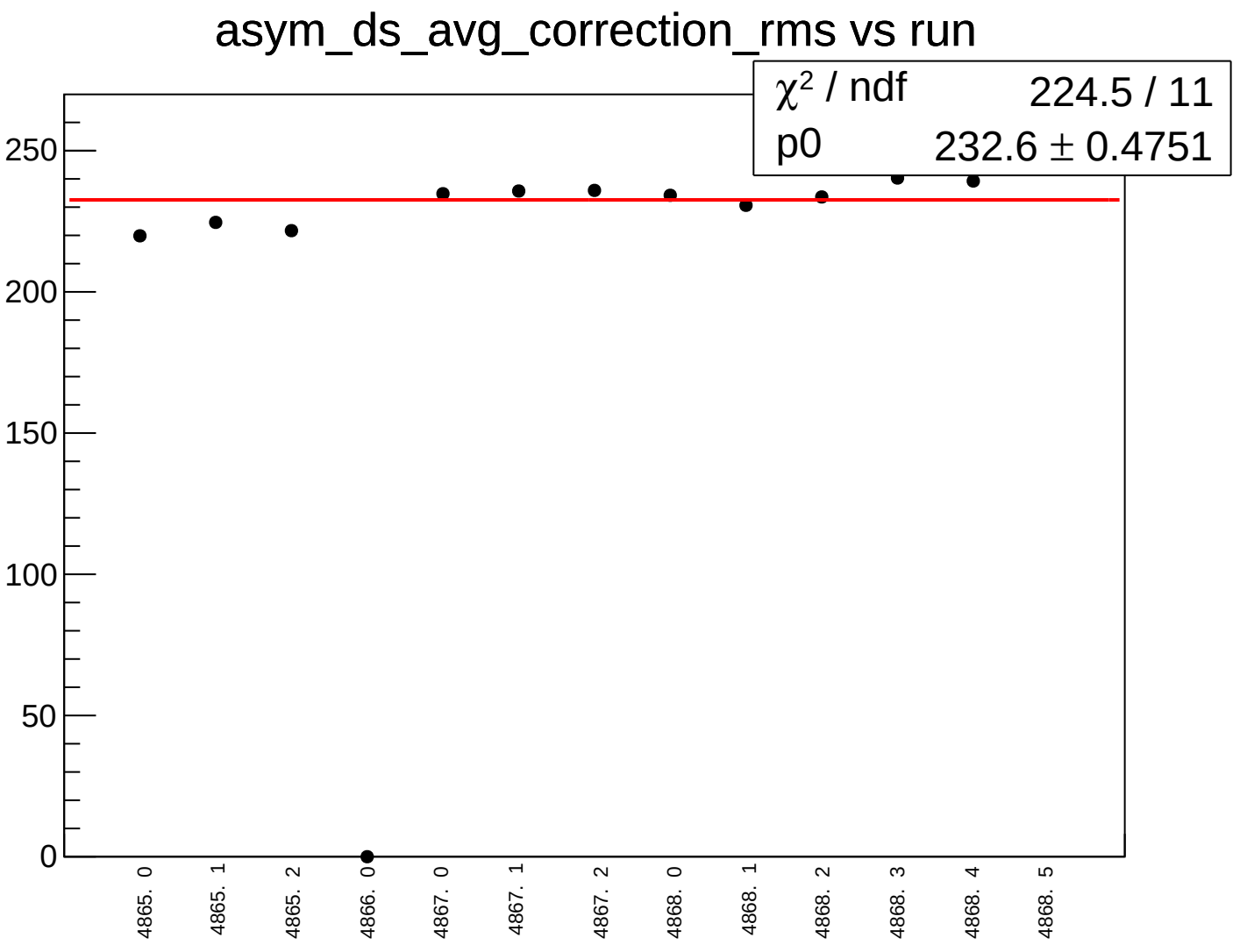

reg_asym_ds_avg_mean vs run
χ² / ndf 11.23 / 11
p0 724.1 ± 283.4
3000
2000
1000
0
−1000
−2000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

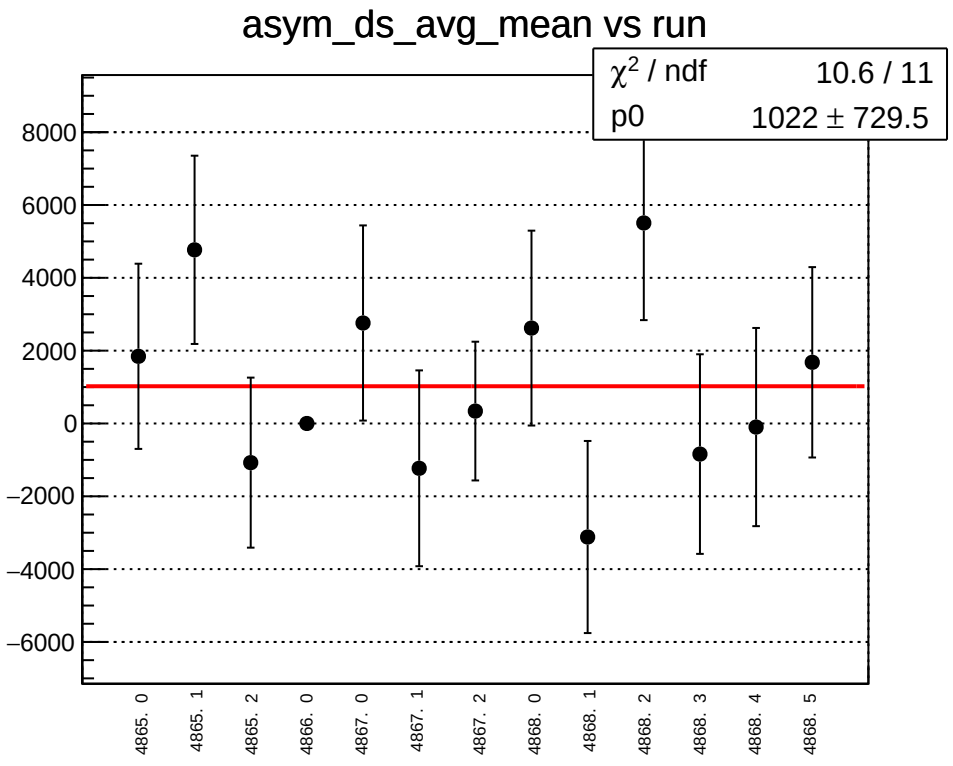

pull1D
Entries 13
Mean 0.04321
Std Dev 0.9665
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

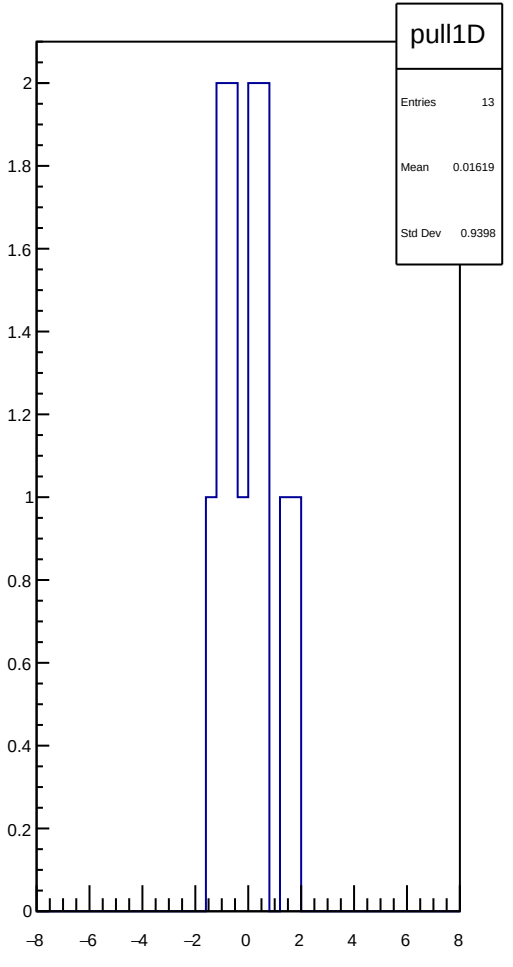

reg_asym_ds_avg_rms vs run
χ² / ndf 27.51 / 11
p0 98.15 ± 0.2004
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

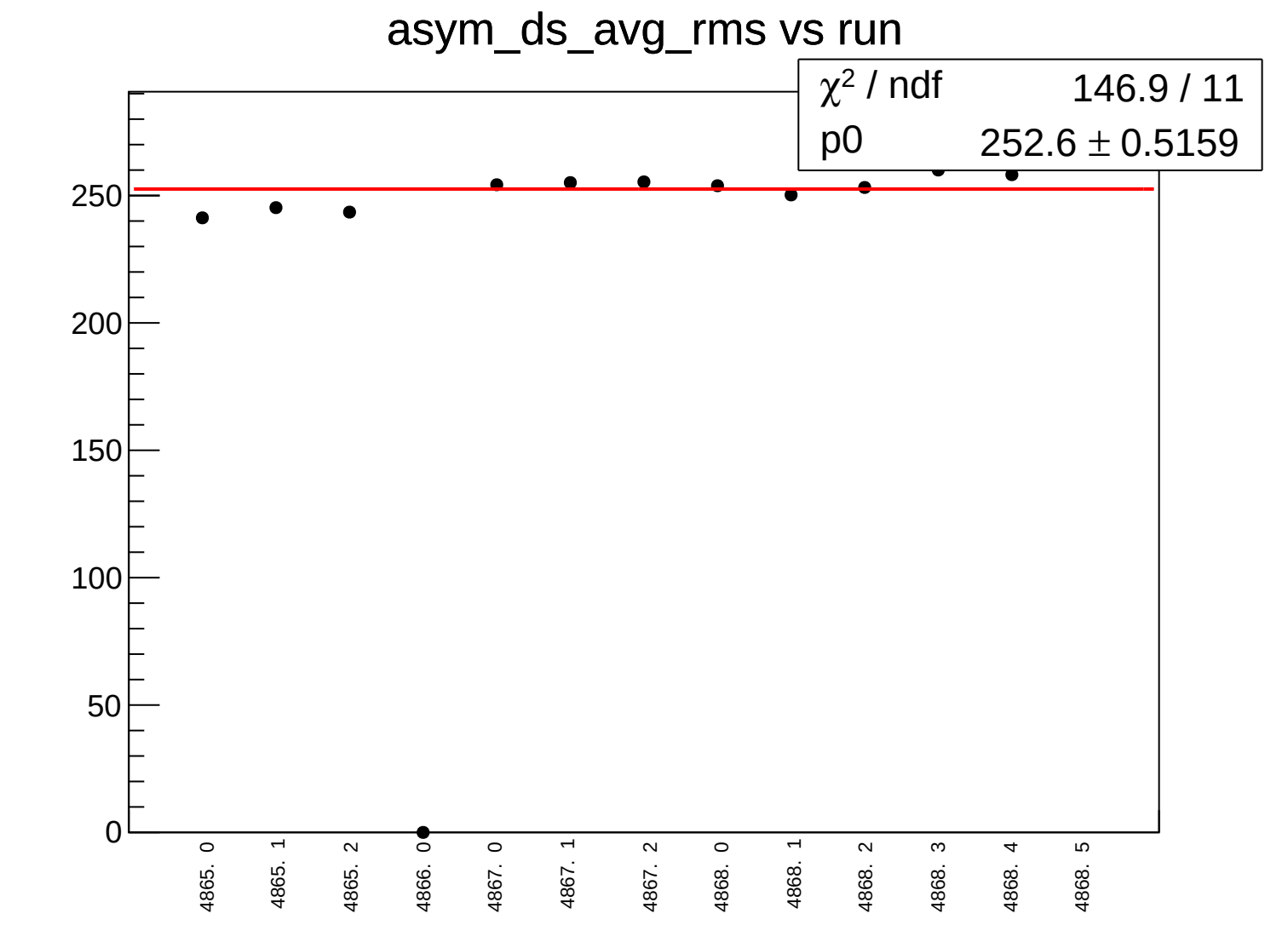

asym_ds_avg_correction_mean vs run
χ² / ndf 11.66 / 11
p0 −299.9 ± 671.9
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.0009264
Std Dev 0.9859
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_ds_avg_correction_rms vs run
χ² / ndf 224.5 / 11
p0 232.6 ± 0.4751
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_ds_avg_mean vs run
χ² / ndf 10.6 / 11
p0 1022 ± 729.5
8000
6000
4000
2000
0
−2000
−4000
−6000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.01619
Std Dev 0.9398
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


asym_ds_avg_rms vs run
χ² / ndf 146.9 / 11
p0 252.6 ± 0.5159
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
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4868. 1
4868. 2
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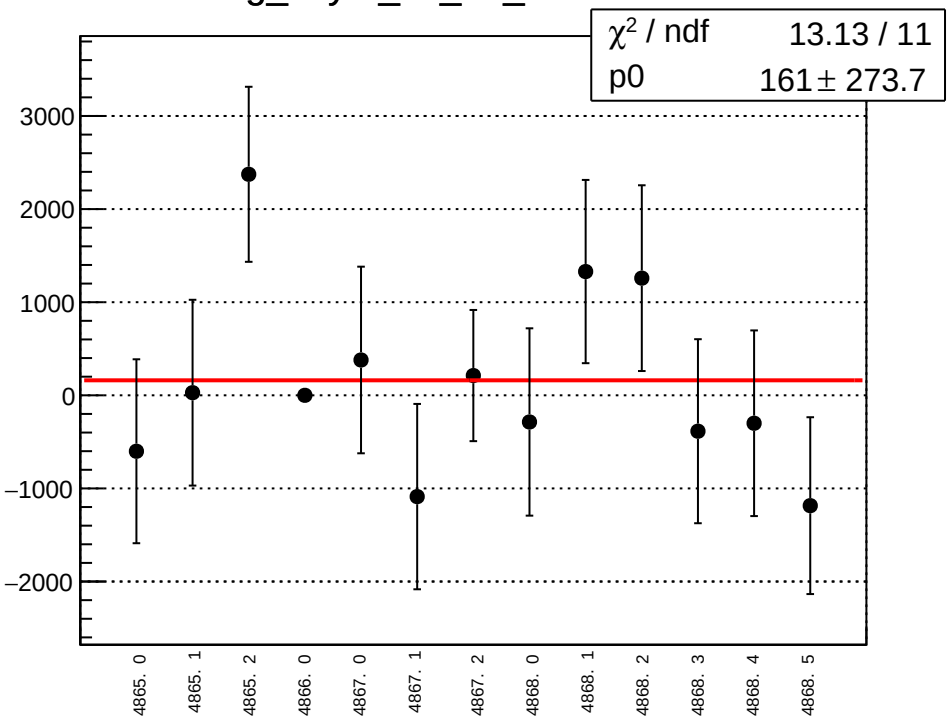
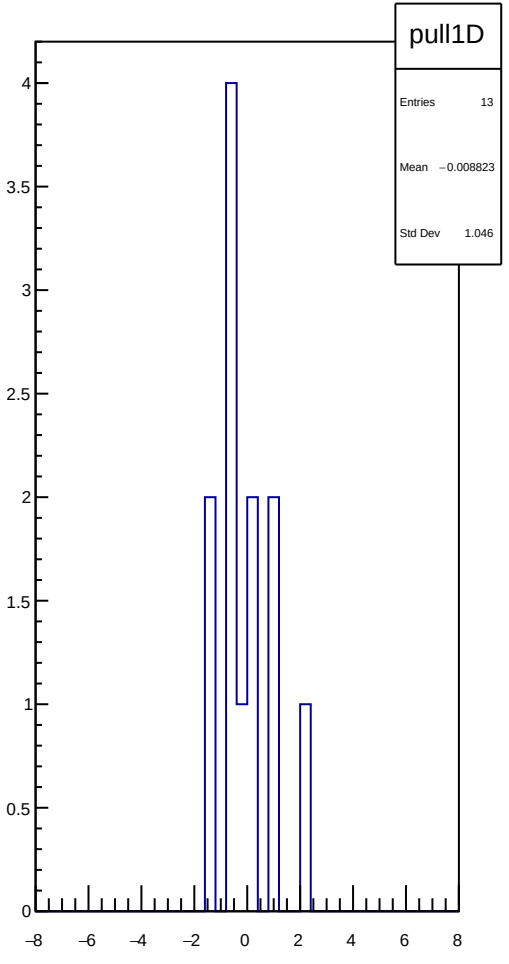
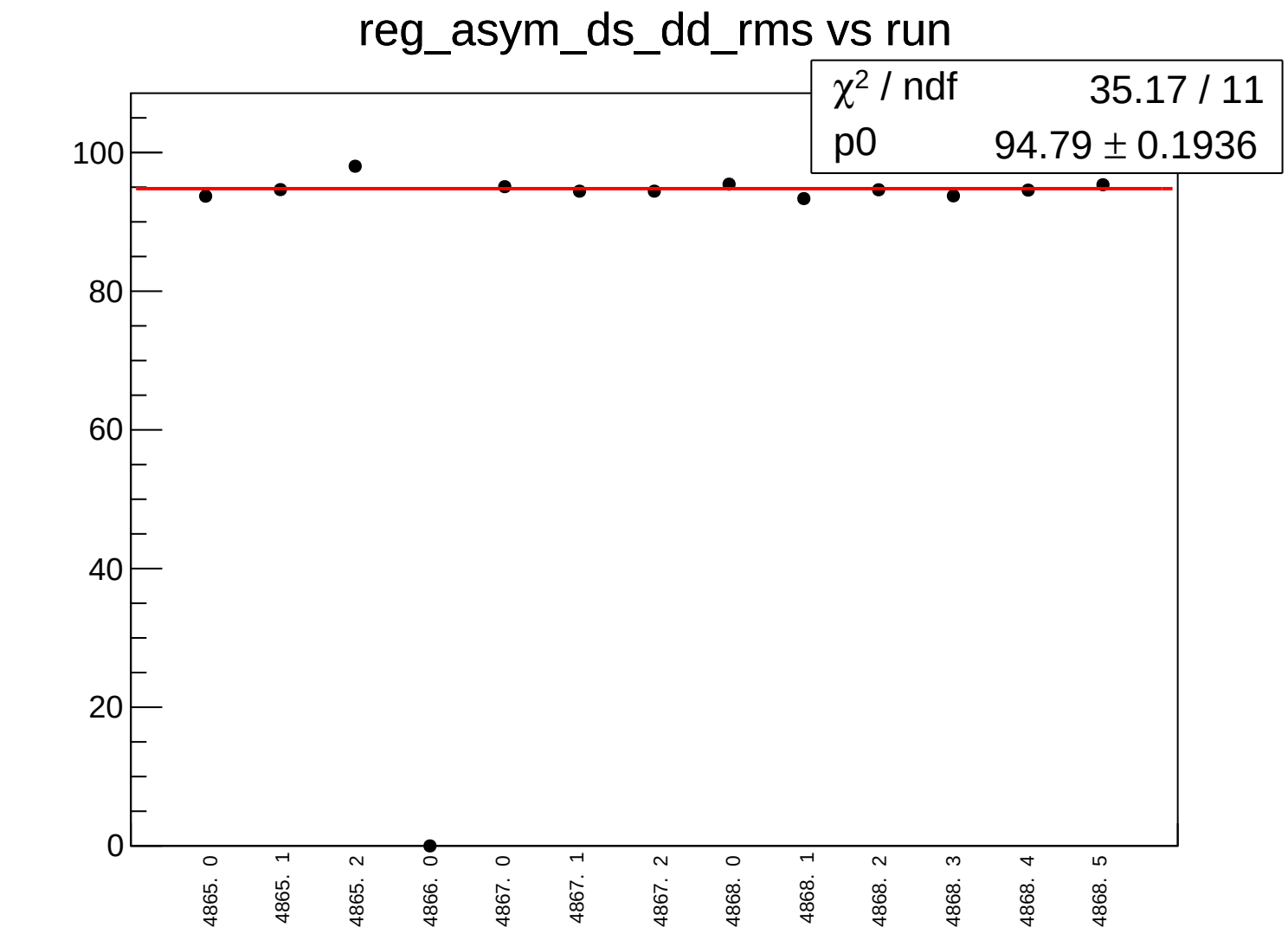
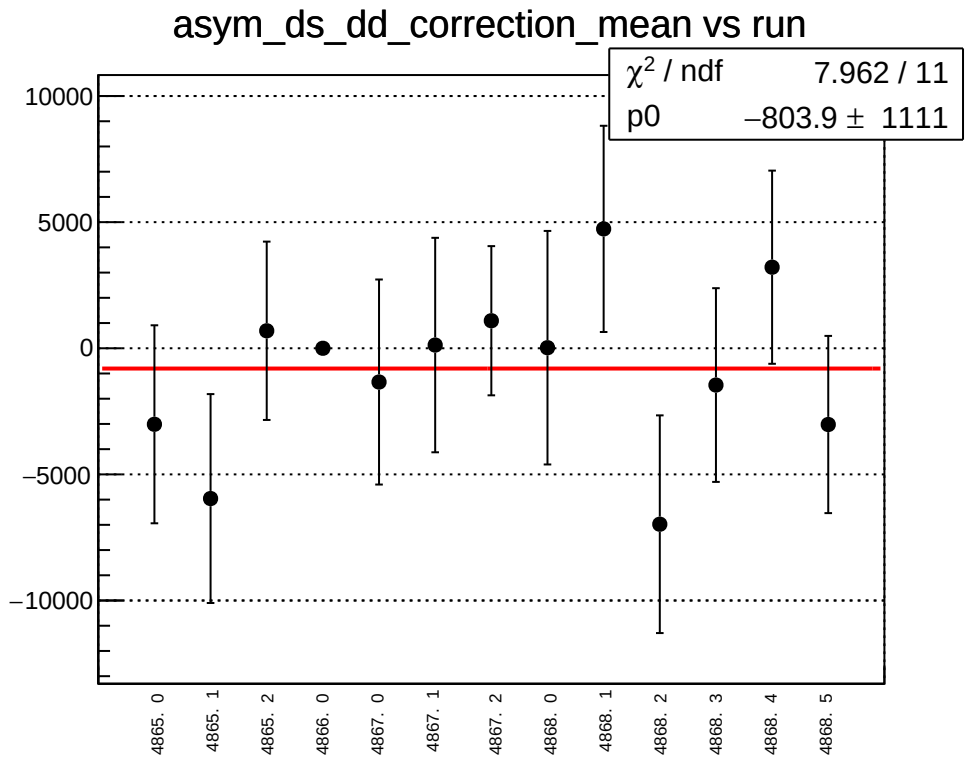
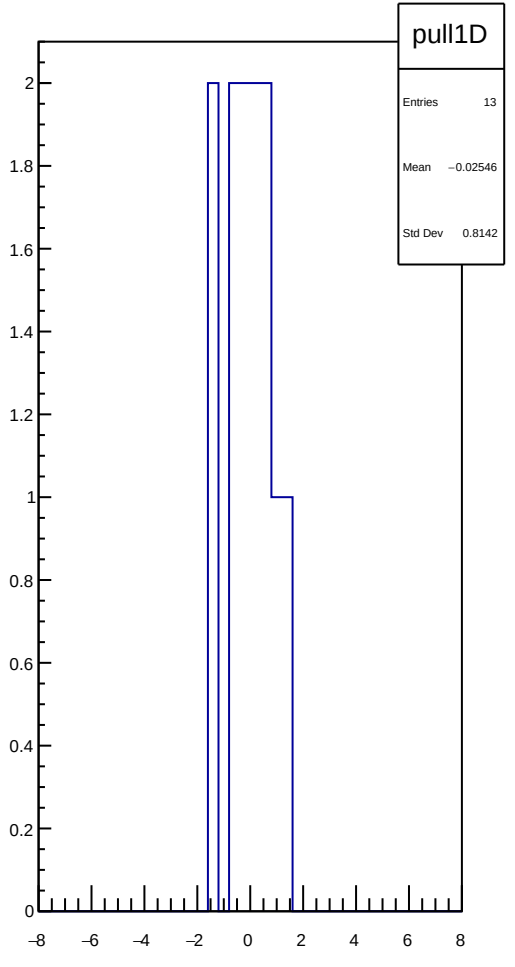
4868. 4
4868. 5

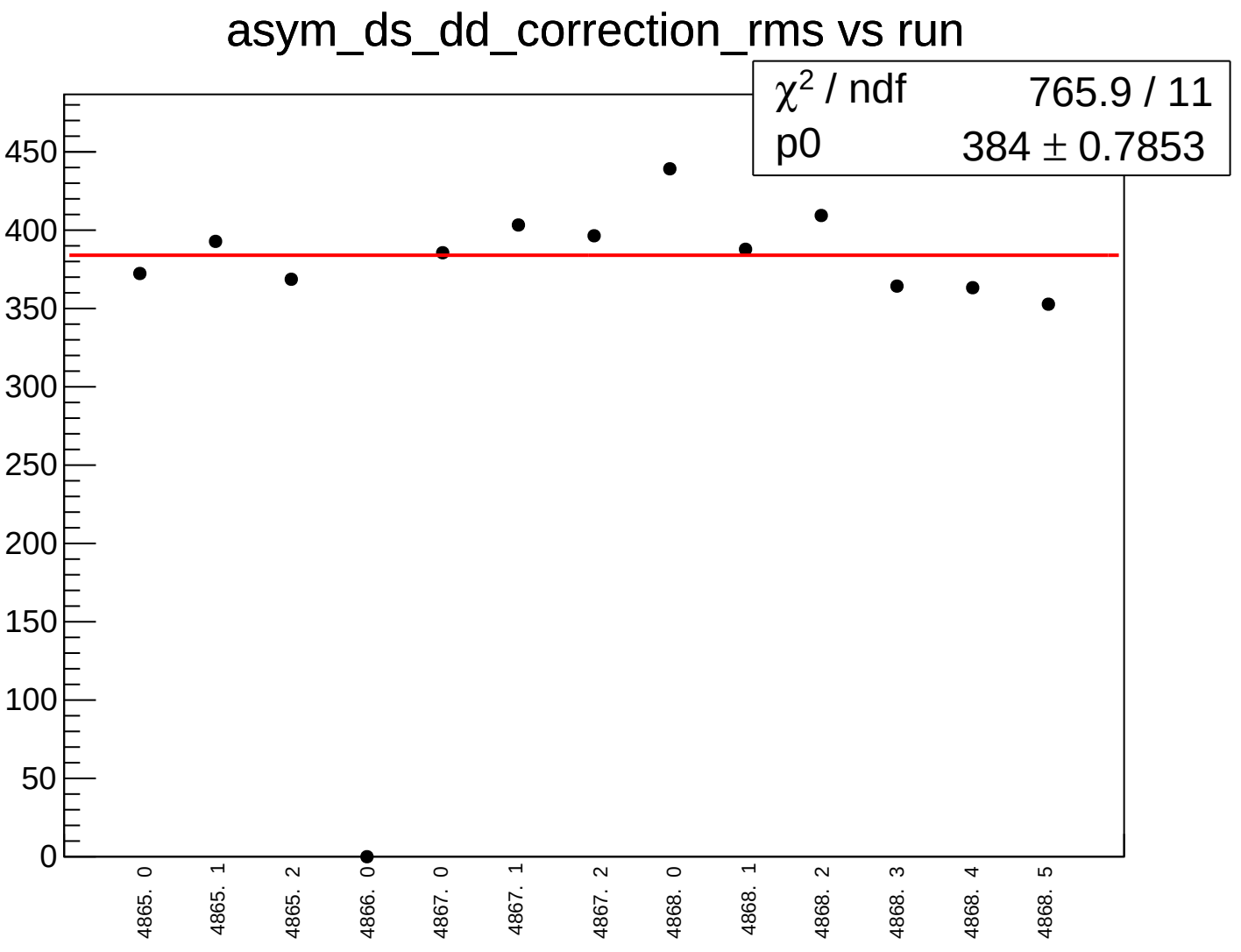

reg_asym_ds_dd_mean vs run
χ² / ndf 13.13 / 11
p0 161 ± 273.7
3000
2000
1000
0
−1000
−2000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

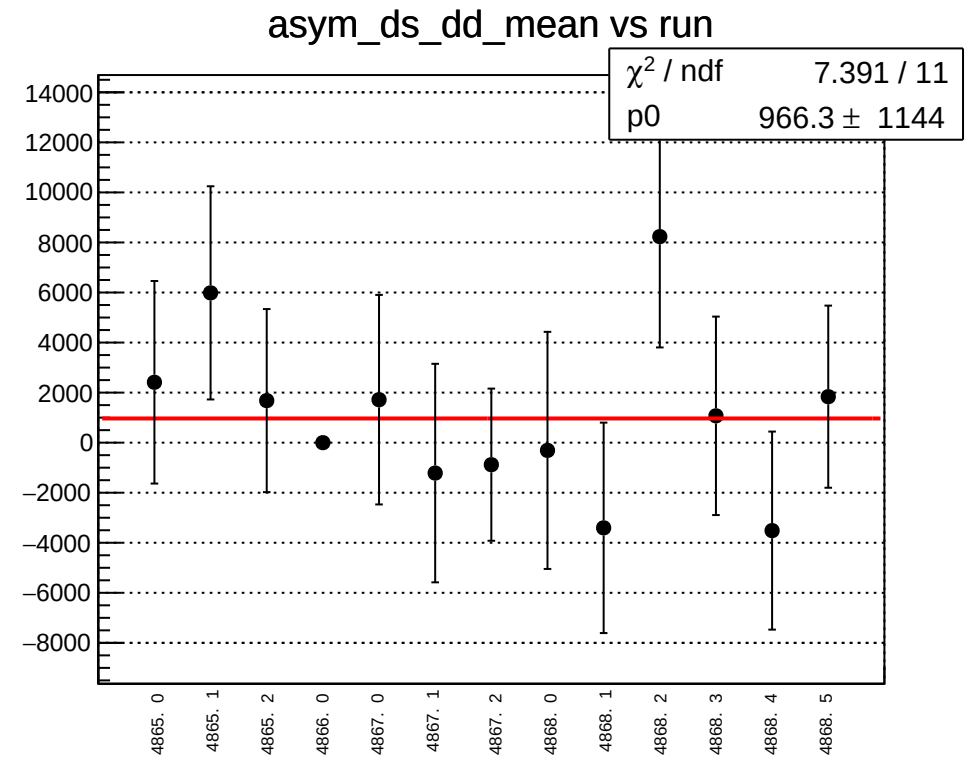

pull1D
Entries 13
Mean −0.008823
Std Dev 1.046
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_ds_dd_rms vs run
χ² / ndf 35.17 / 11
p0 94.79 ± 0.1936
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_ds_dd_correction_mean vs run
χ² / ndf 7.962 / 11
p0 −803.9 ± 1111
10000
5000
0
−5000
−10000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.02546
Std Dev 0.8142
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


asym_ds_dd_correction_rms vs run
χ² / ndf 765.9 / 11
p0 384 ± 0.7853
450
400
350
300
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_ds_dd_mean vs run
χ² / ndf 7.391 / 11
p0 966.3 ± 1144
14000
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
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4868. 2
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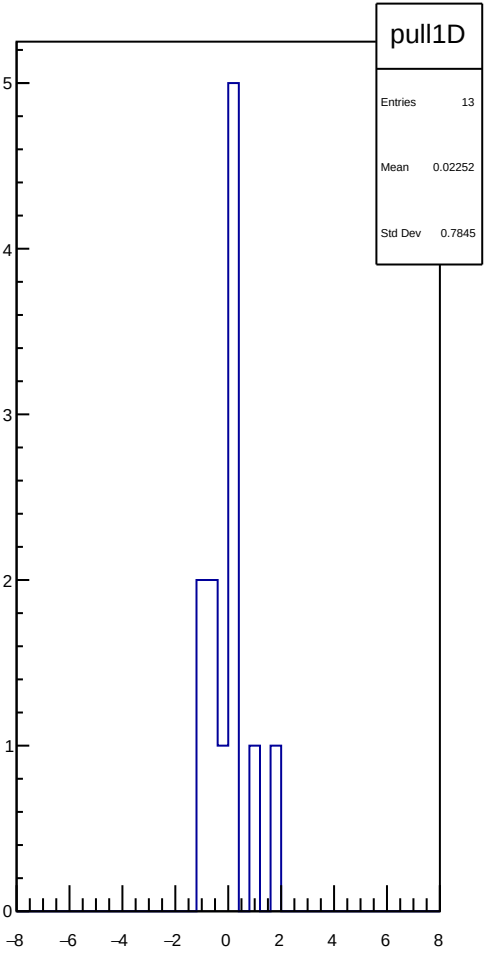
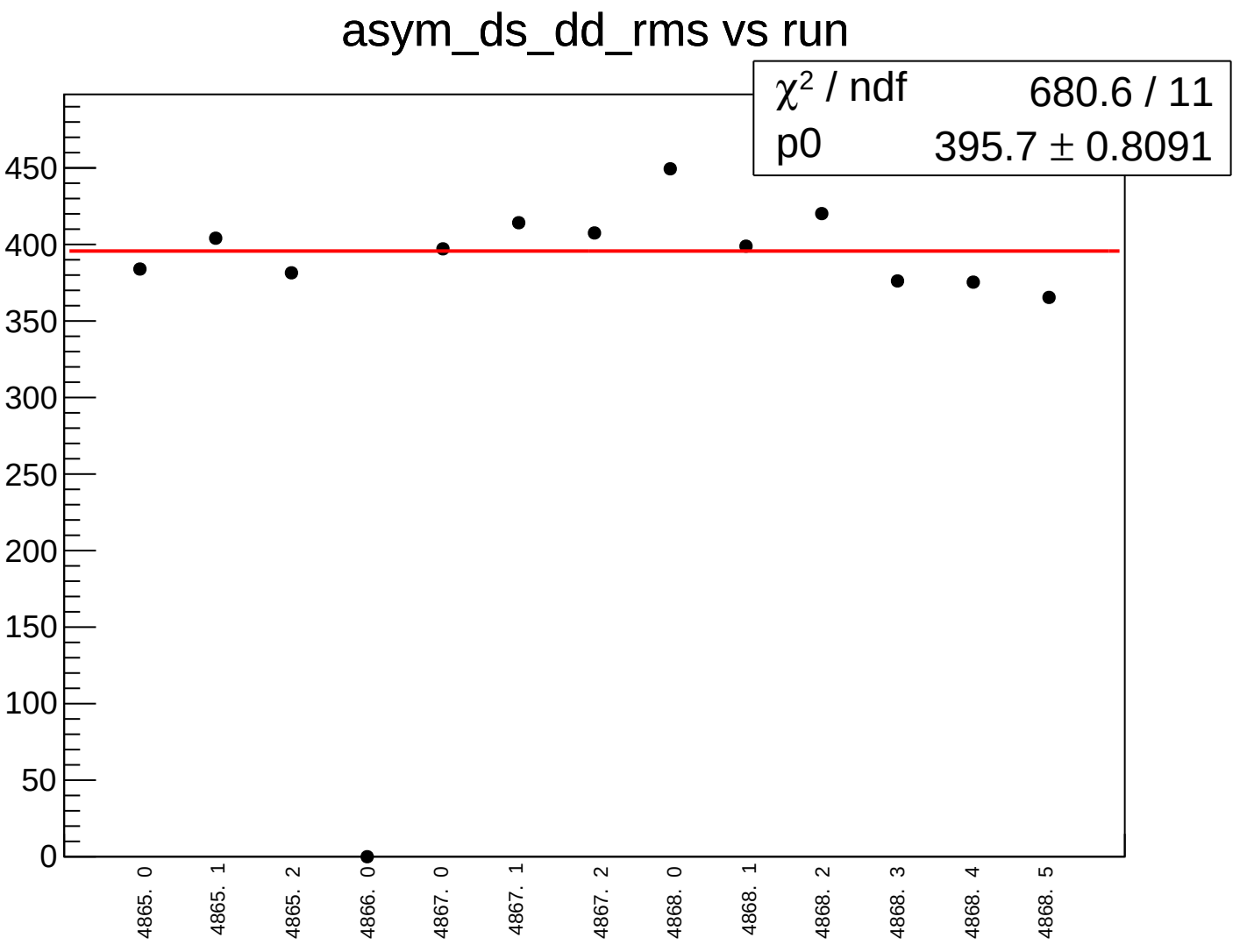
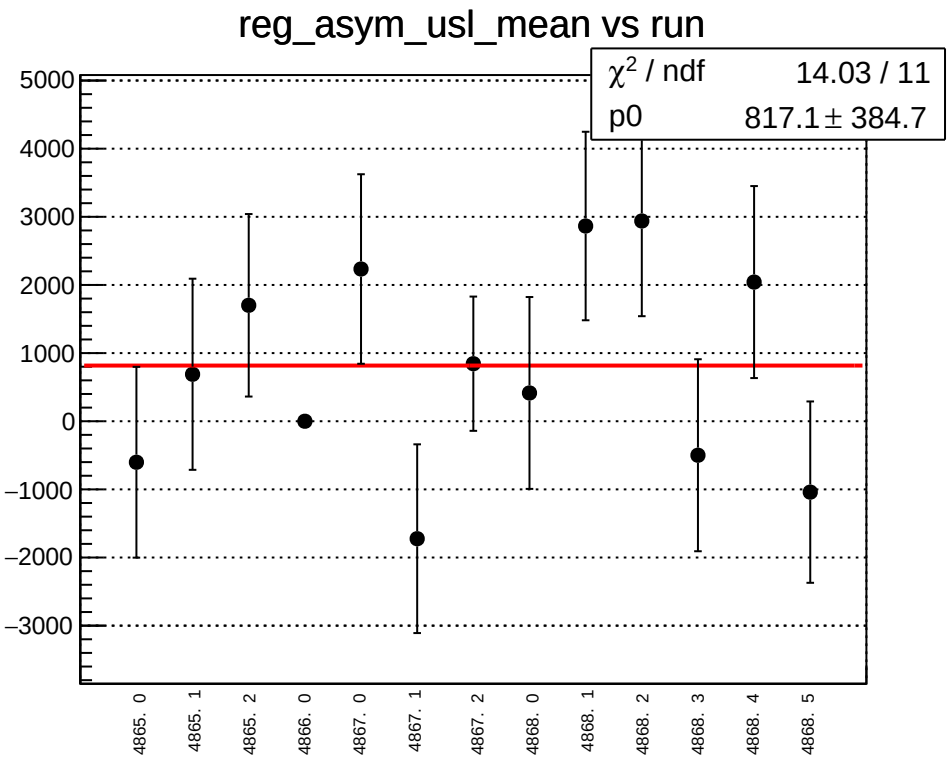
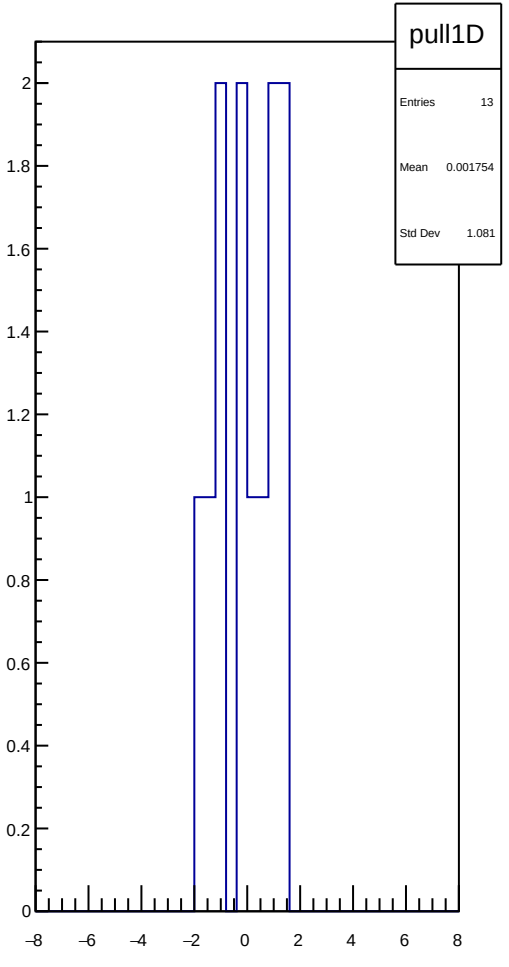
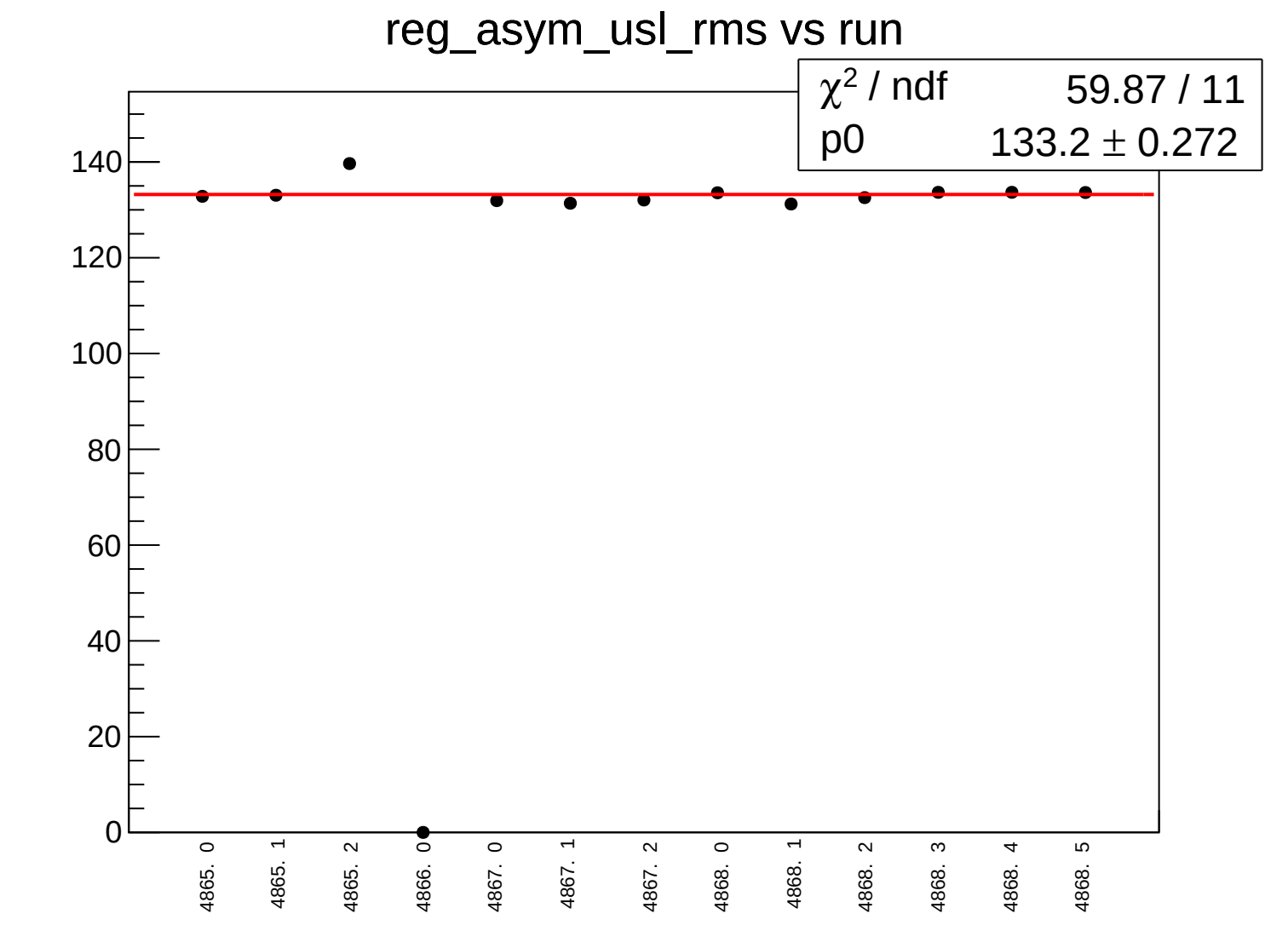
4868. 4
4868. 5

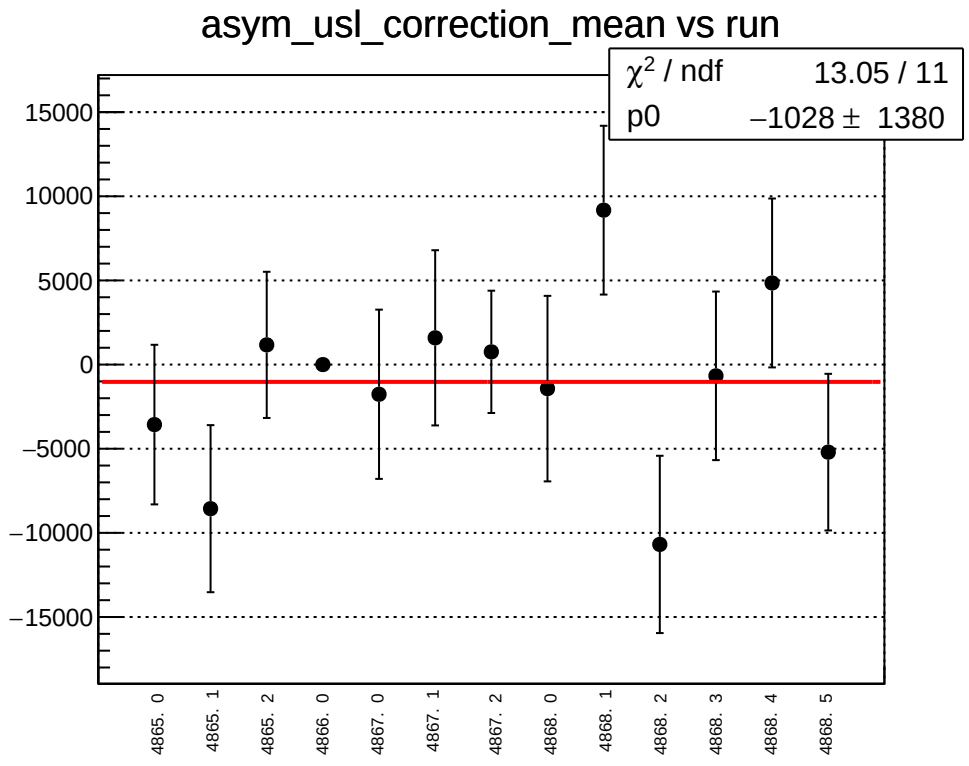

pull1D
Entries 13
Mean 0.02252
Std Dev 0.7845
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

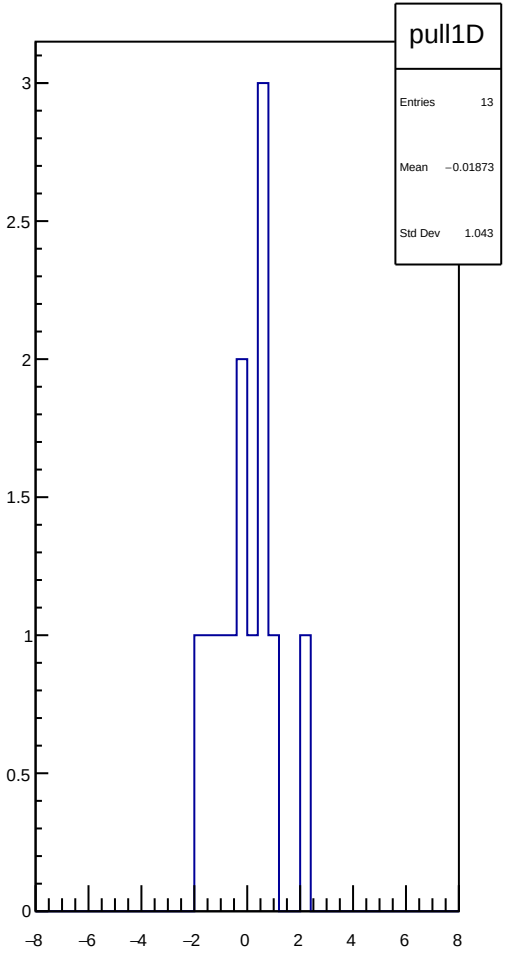

asym_ds_dd_rms vs run
χ² / ndf 680.6 / 11
p0 395.7 ± 0.8091
450
400
350
300
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

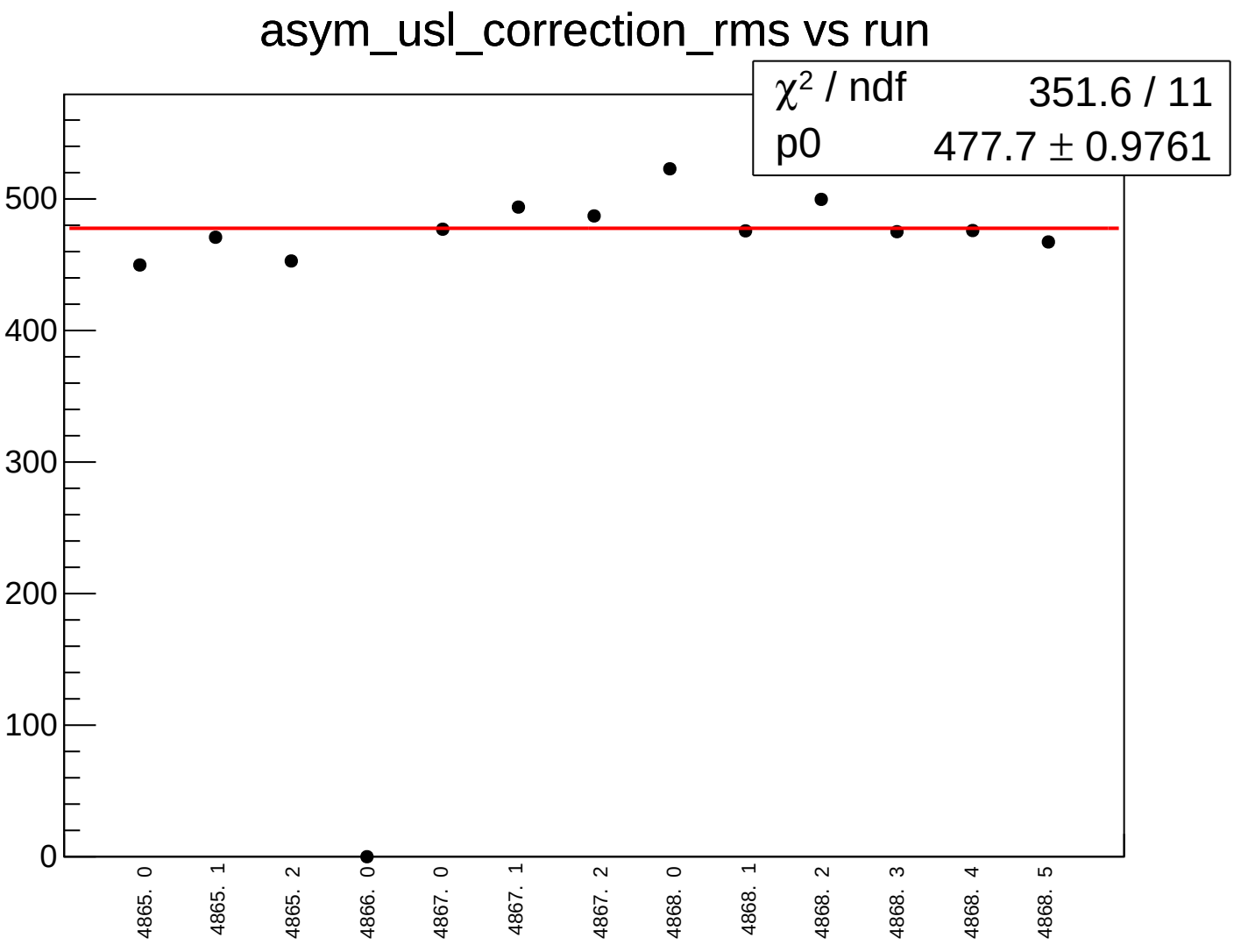

reg_asym_usl_mean vs run
χ2 / ndf 14.03 / 11
p0 817.1 ± 384.7
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.001754
Std Dev 1.081
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usl_rms vs run
χ² / ndf 59.87 / 11
p0 133.2 ± 0.272
140
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_usl_correction_mean vs run
χ² / ndf 13.05 / 11
p0 −1028 ± 1380
15000
10000
5000
0
−5000
−10000
−15000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.01873
Std Dev 1.043
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_correction_rms vs run
χ² / ndf 351.6 / 11
p0 477.7 ± 0.9761
500
400
300
200
100
0
4865. 0
4865. 1
4865. 2
4866. 0
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4867. 1
4867. 2
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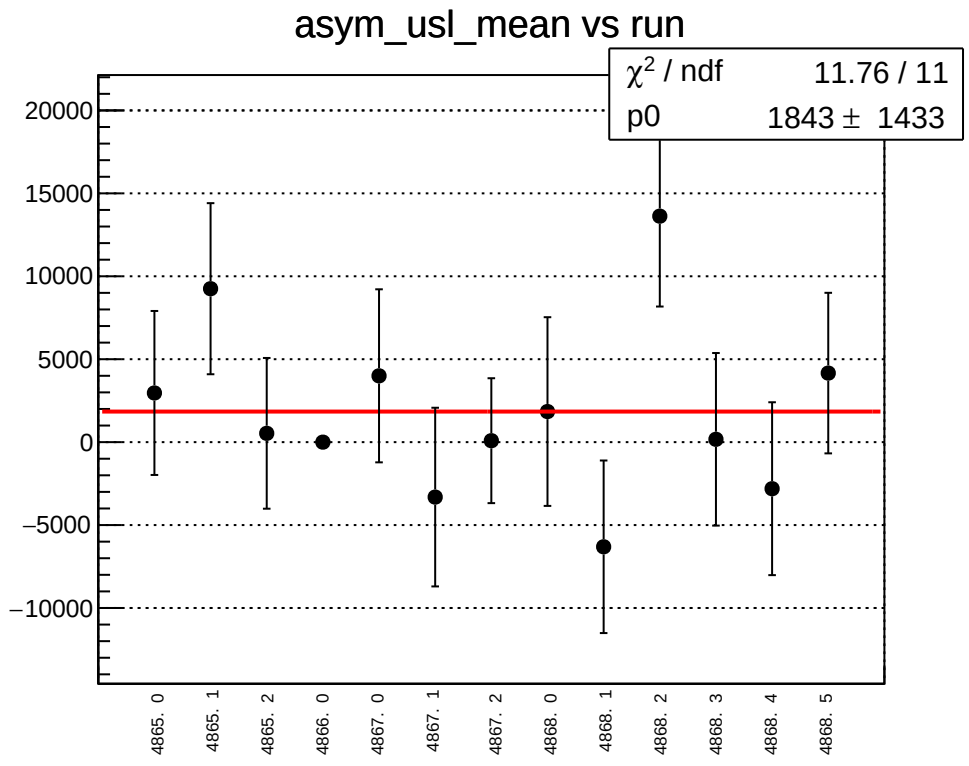
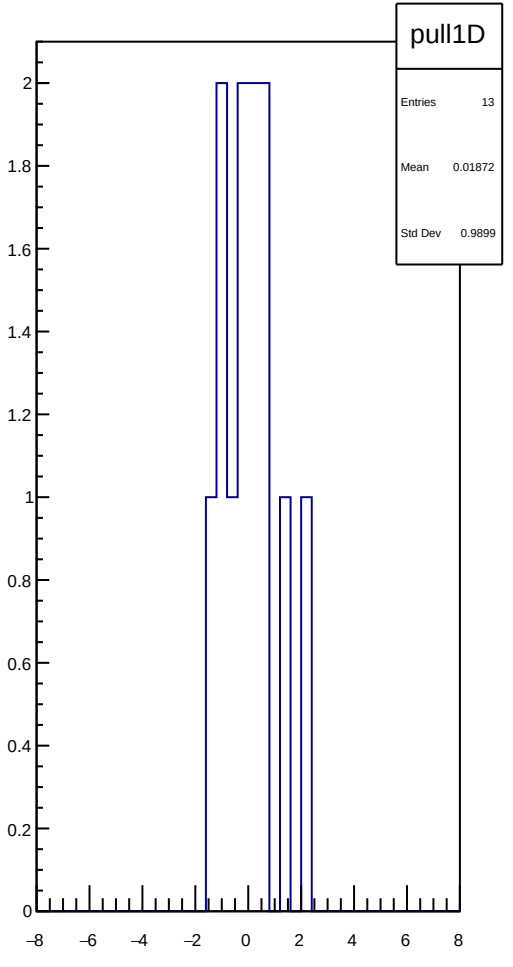
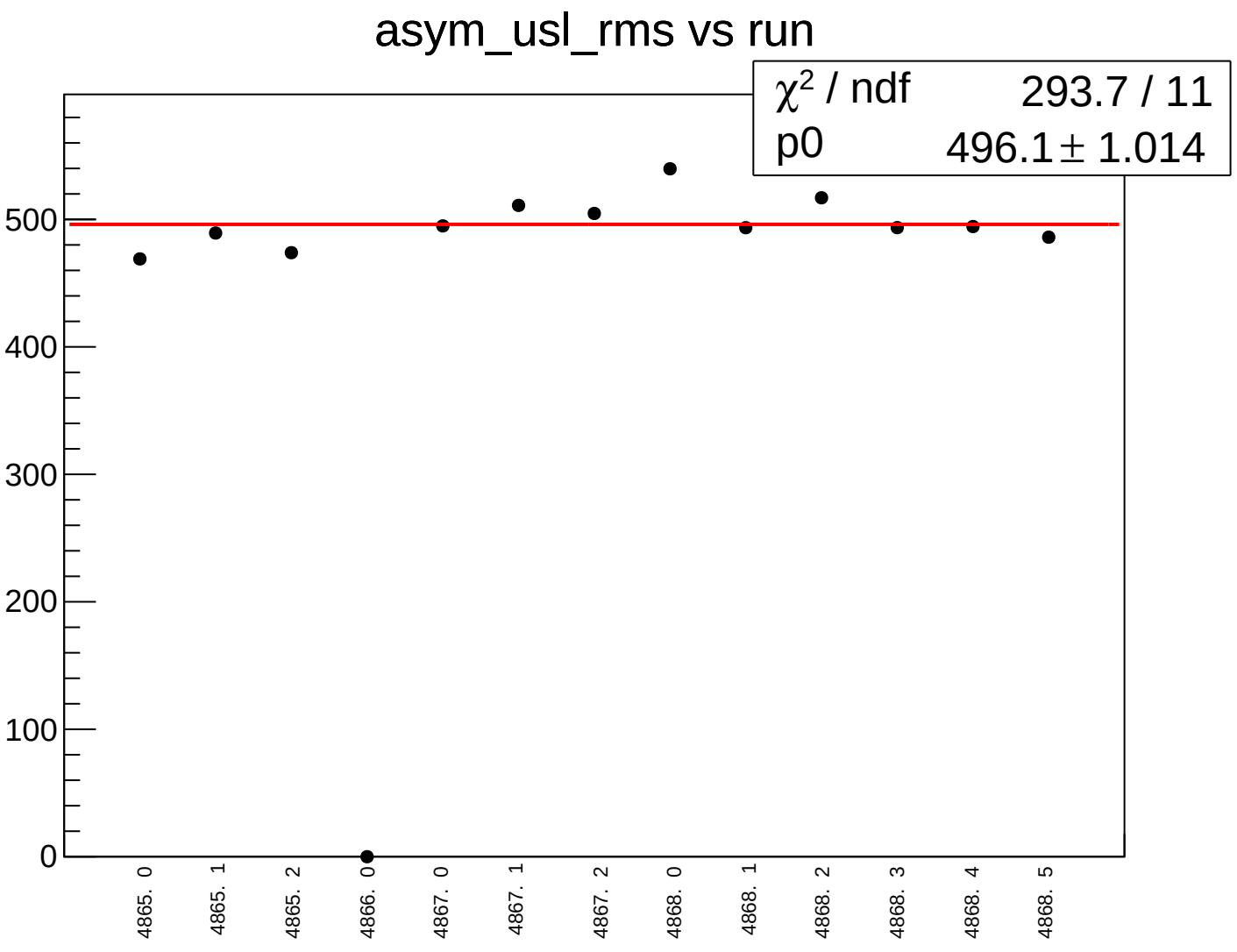
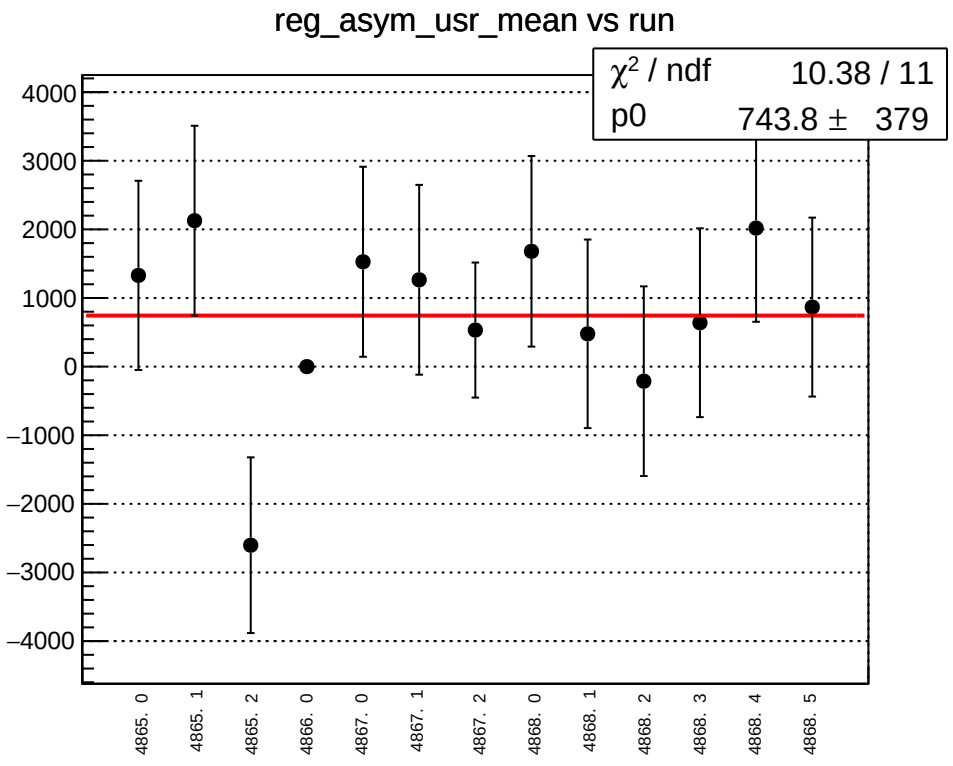
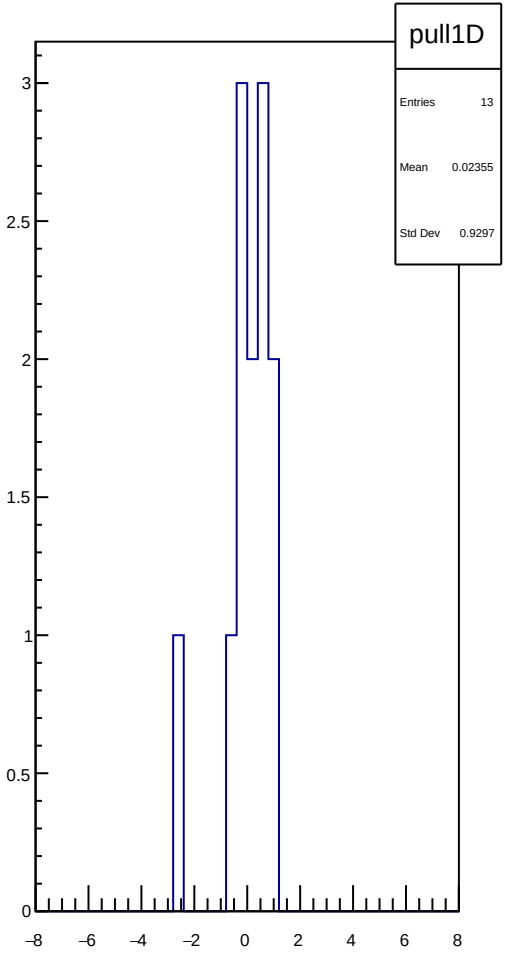
4868. 4
4868. 5


asym_usl_mean vs run
χ² / ndf 11.76 / 11
p0 1843 ± 1433
20000
15000
10000
5000
0
−5000
−10000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.01872
Std Dev 0.9899
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_rms vs run
χ² / ndf 293.7 / 11
p0 496.1 ± 1.014
500
400
300
200
100
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


reg_asym_usr_mean vs run
χ² / ndf 10.38 / 11
p0 743.8 ± 379
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.02355
Std Dev 0.9297
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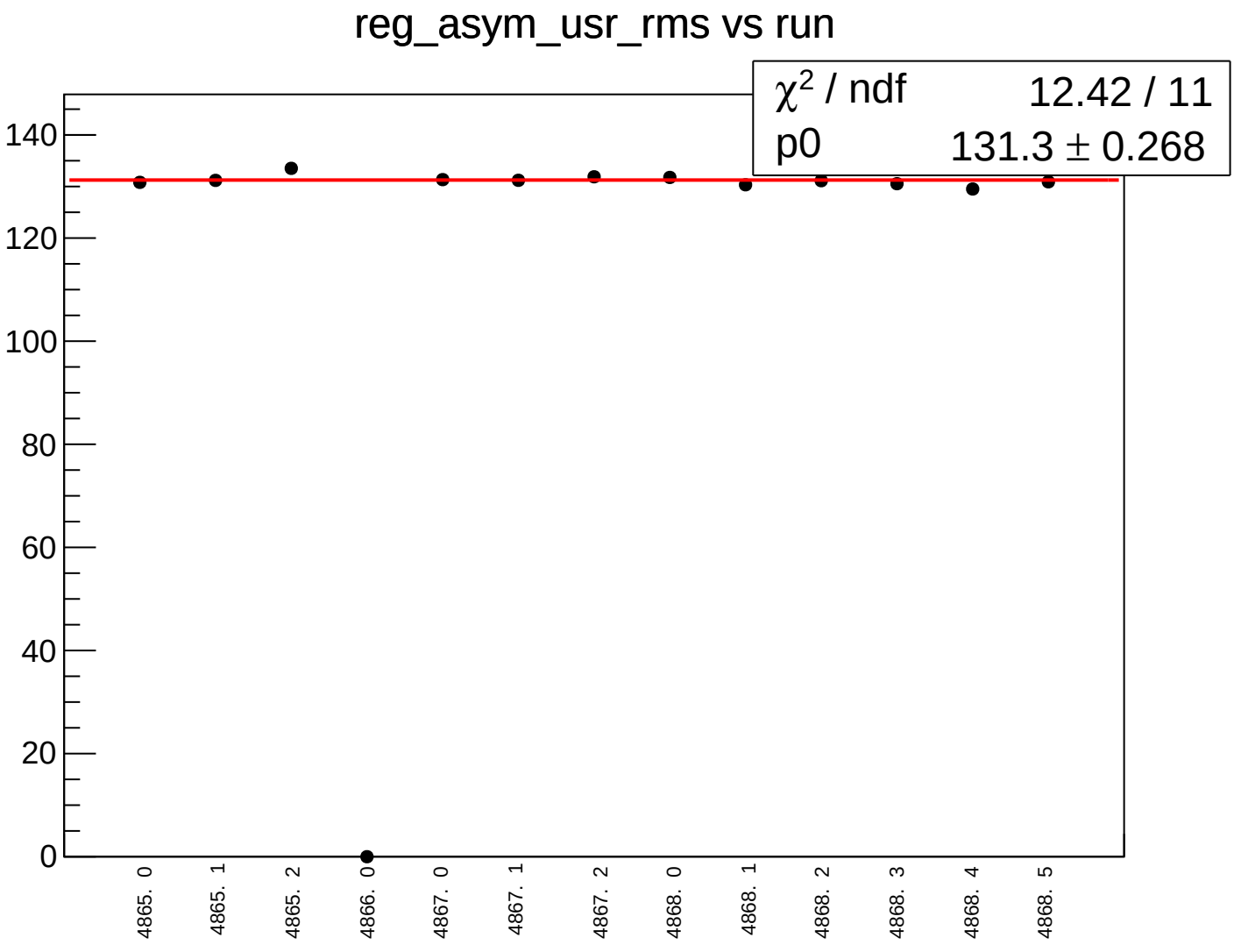
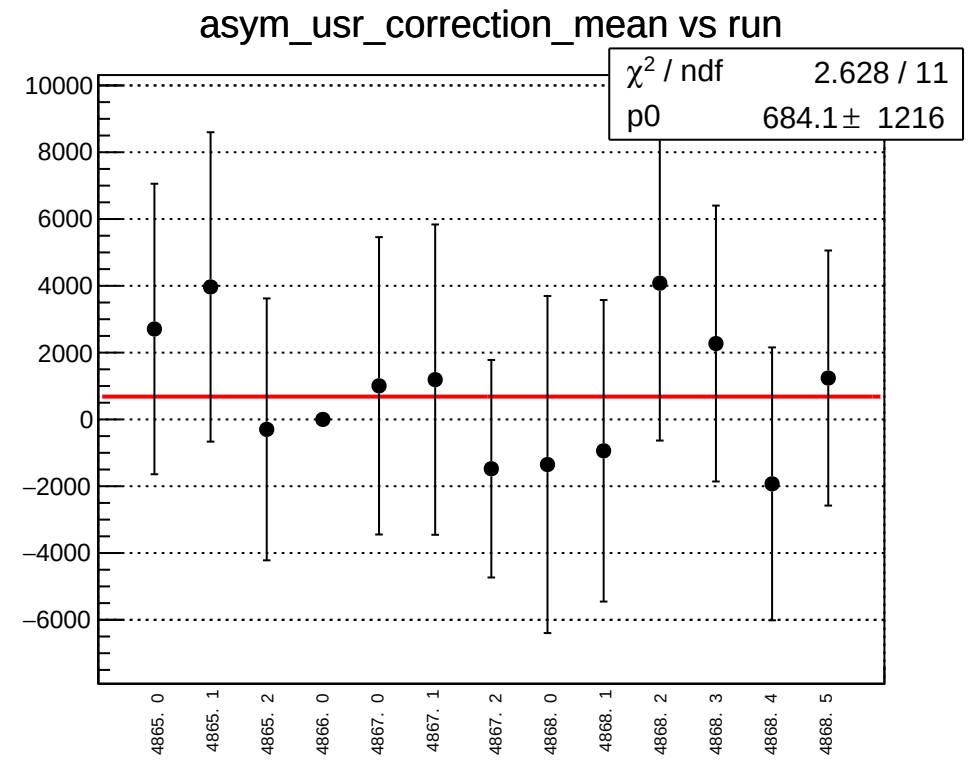
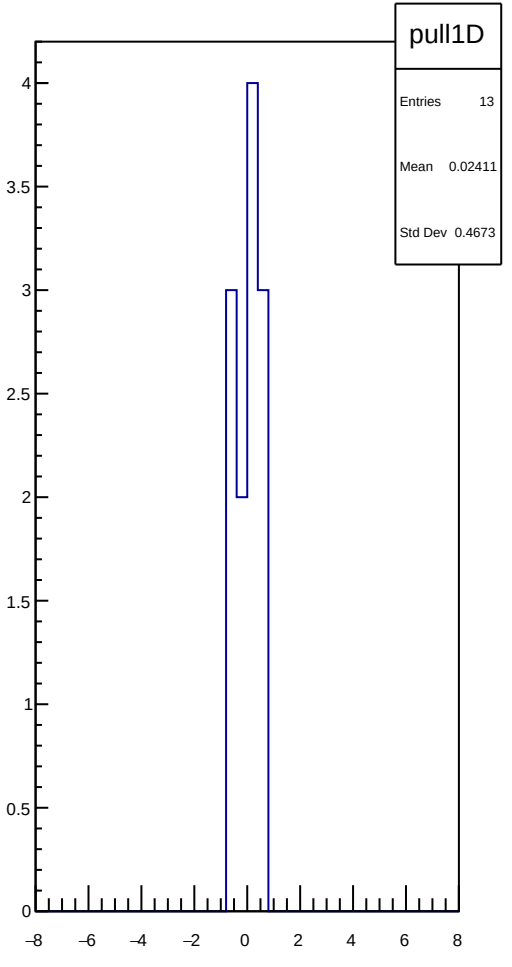
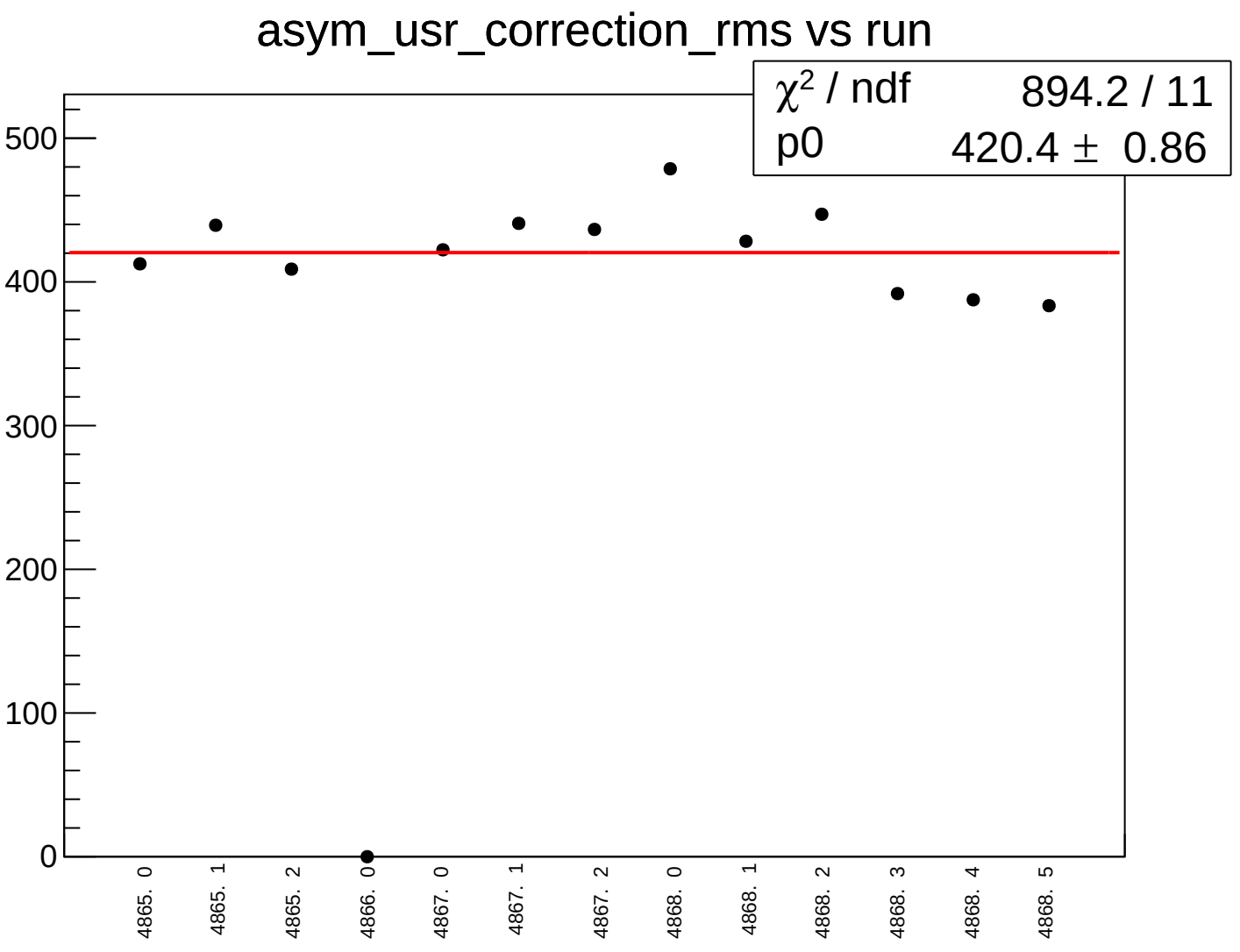
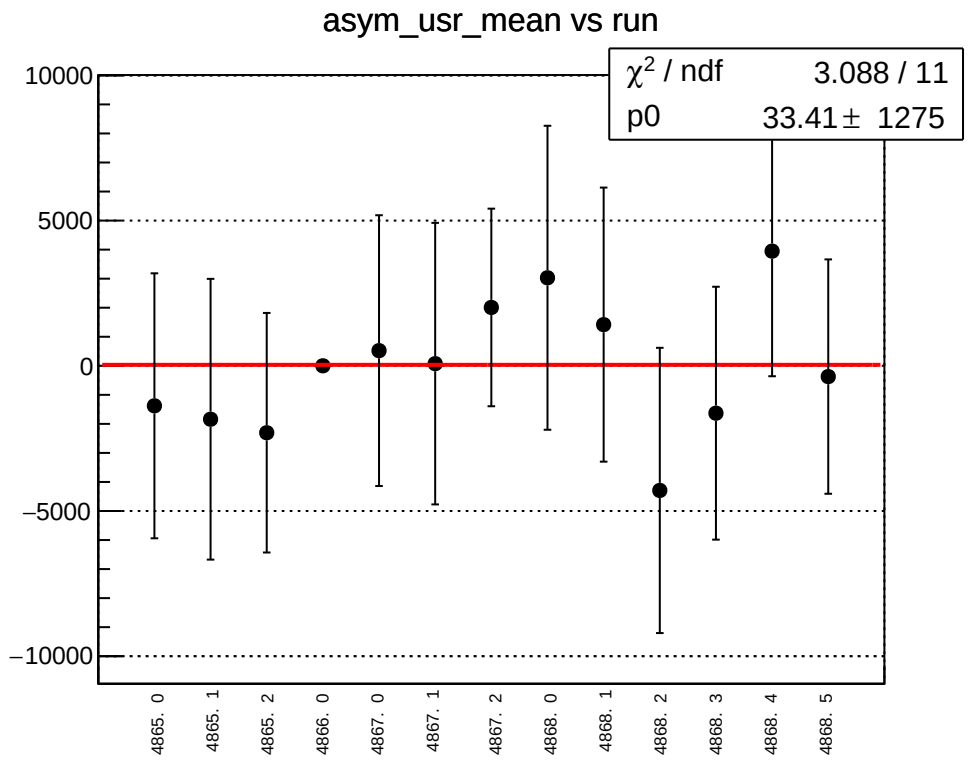
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

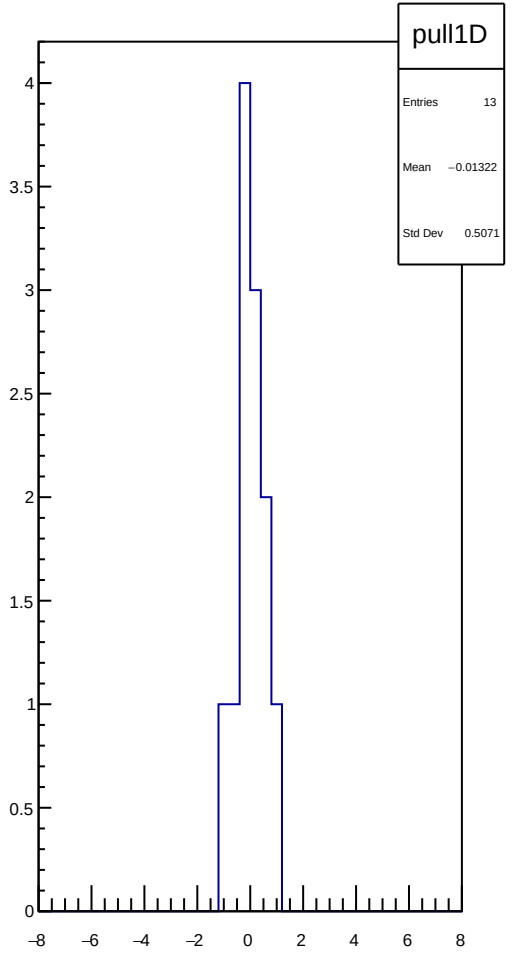

reg_asym_usr_rms vs run
χ² / ndf 12.42 / 11
p0 131.3 ± 0.268
140
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

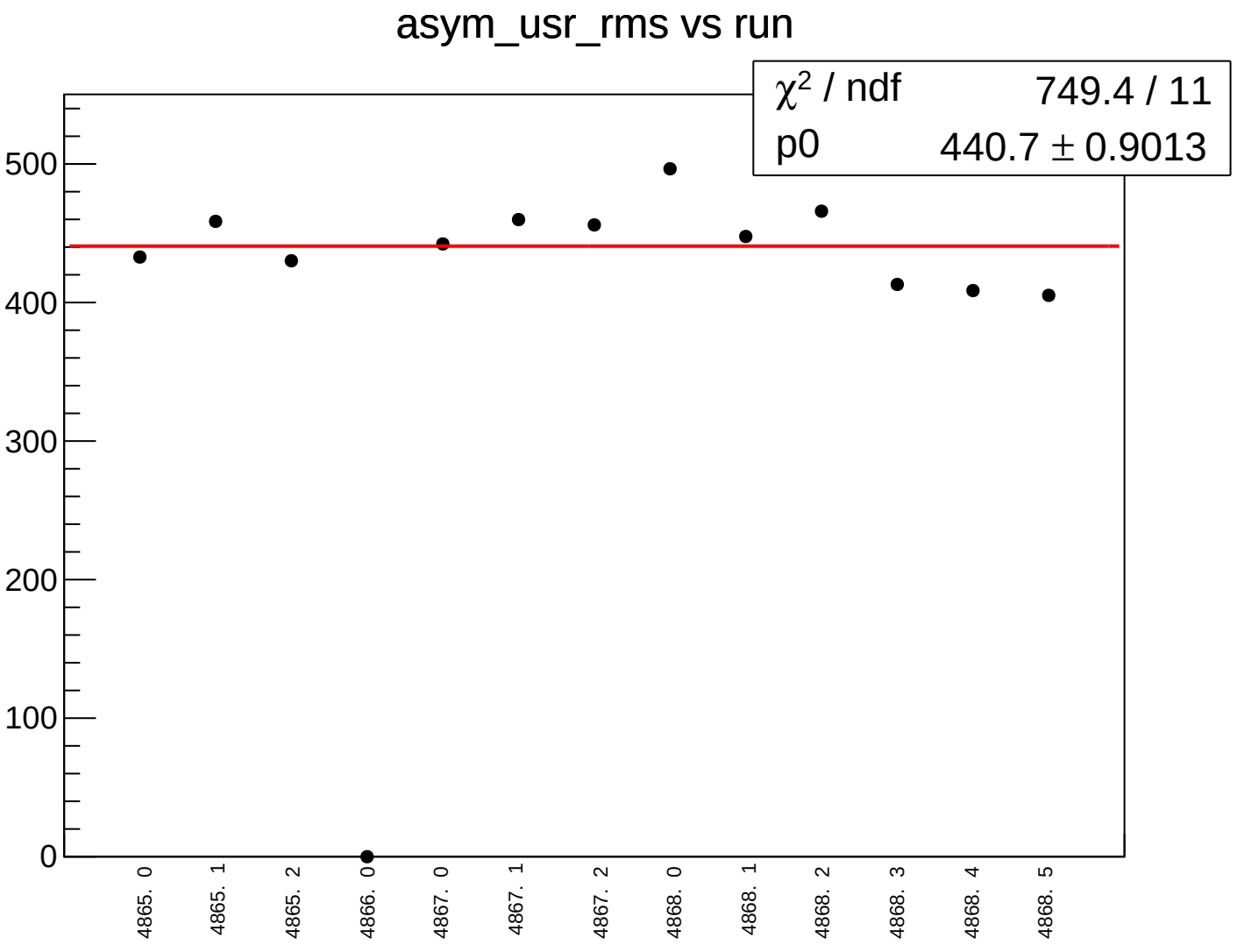

asym_usr_correction_mean vs run
χ² / ndf 2.628 / 11
p0 684.1 ± 1216
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

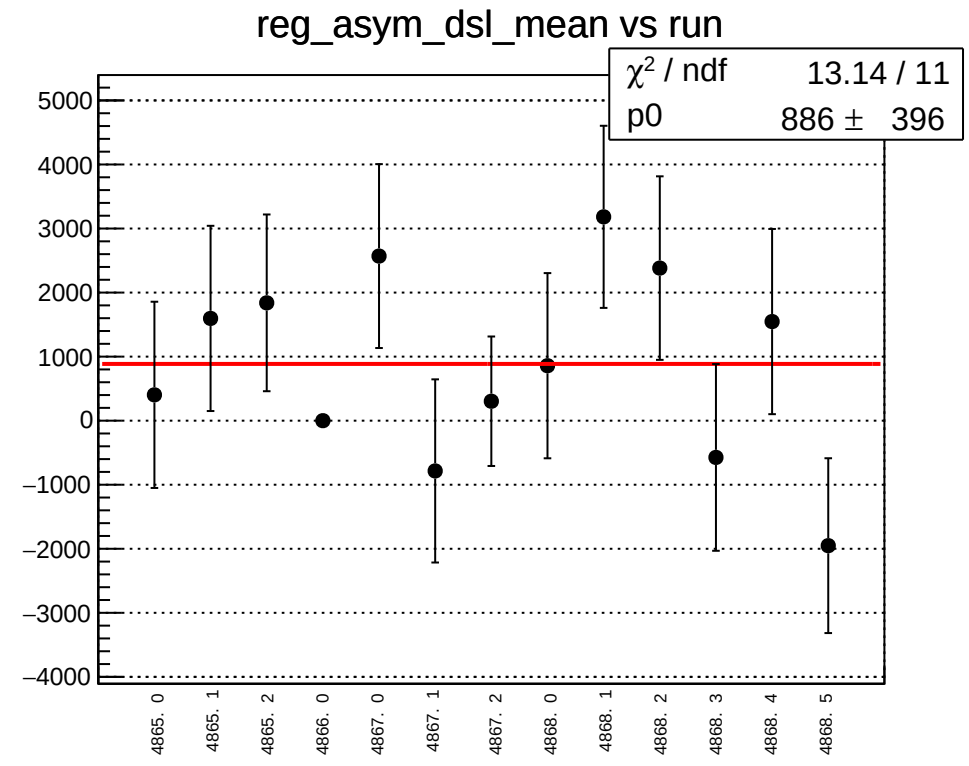

pull1D
Entries 13
Mean 0.02411
Std Dev 0.4673
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

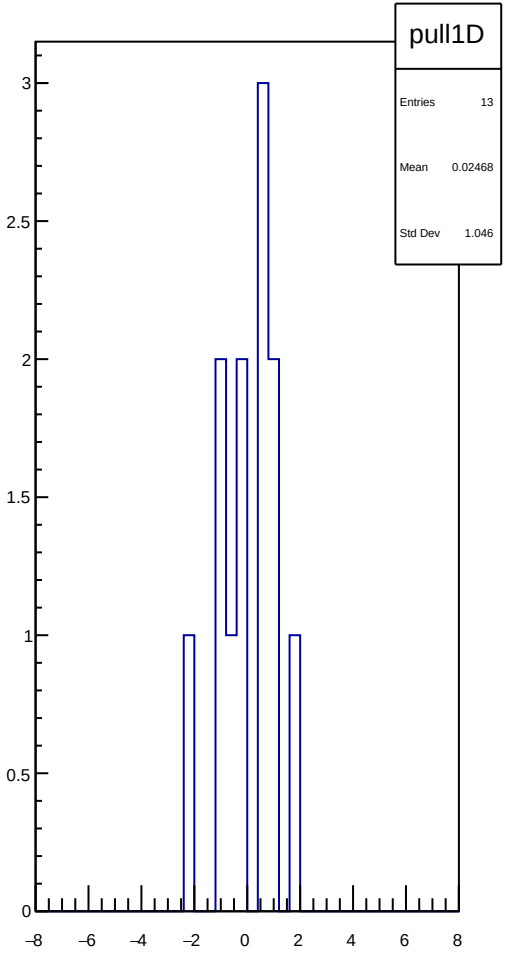

asym_usr_correction_rms vs run
χ² / ndf 894.2 / 11
p0 420.4 ± 0.86
500
400
300
200
100
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_usr_mean vs run
χ² / ndf 3.088 / 11
p0 33.41 ± 1275
10000
5000
0
−5000
−10000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.01322
Std Dev 0.5071
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_rms vs run
χ² / ndf 749.4 / 11
p0 440.7 ± 0.9013
500
400
300
200
100
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


reg_asym_dsl_mean vs run
χ² / ndf 13.14 / 11
p0 886 ± 396
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.02468
Std Dev 1.046
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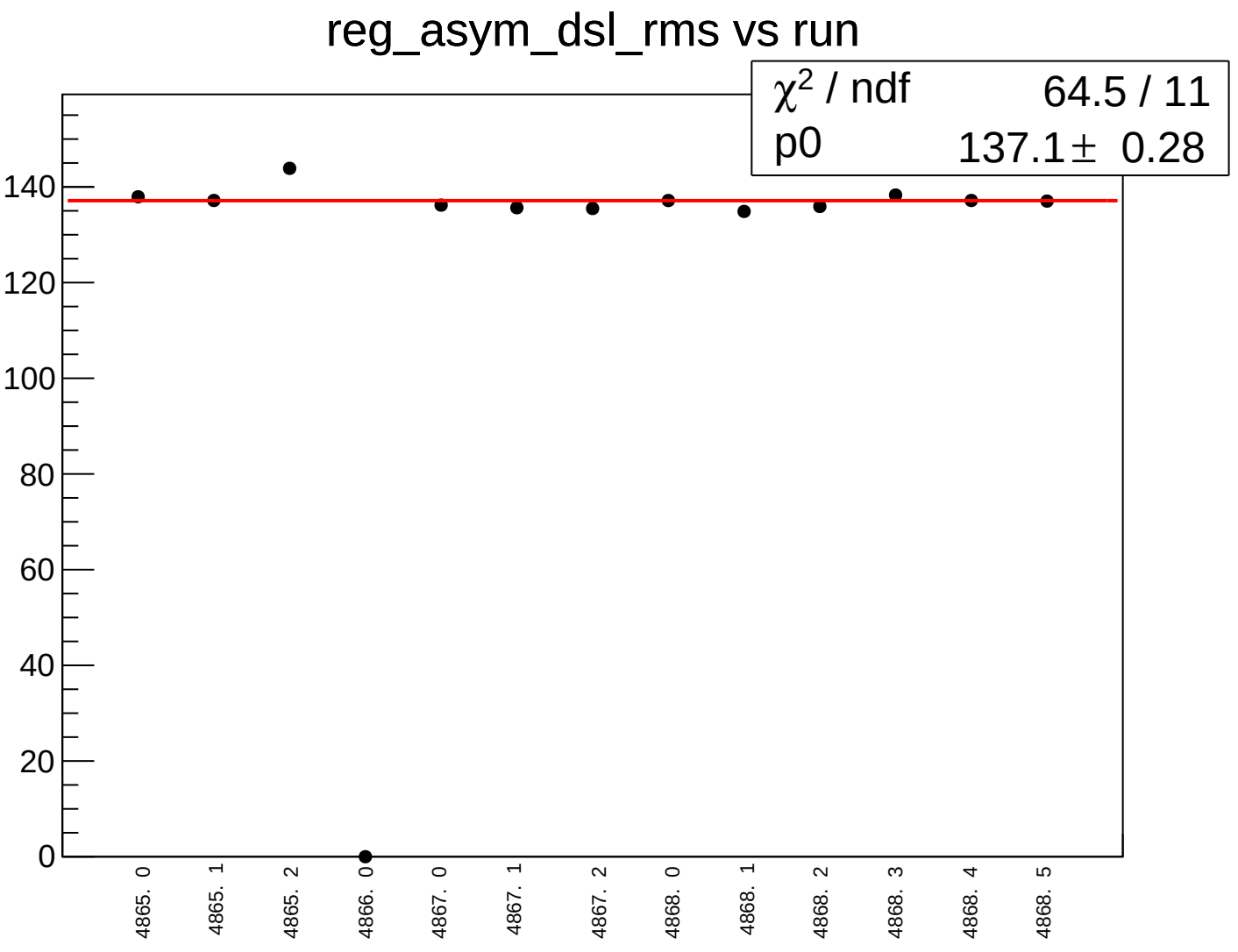
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_dsl_rms vs run
χ² / ndf 64.5 / 11
p0 137.1 ± 0.28
140
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
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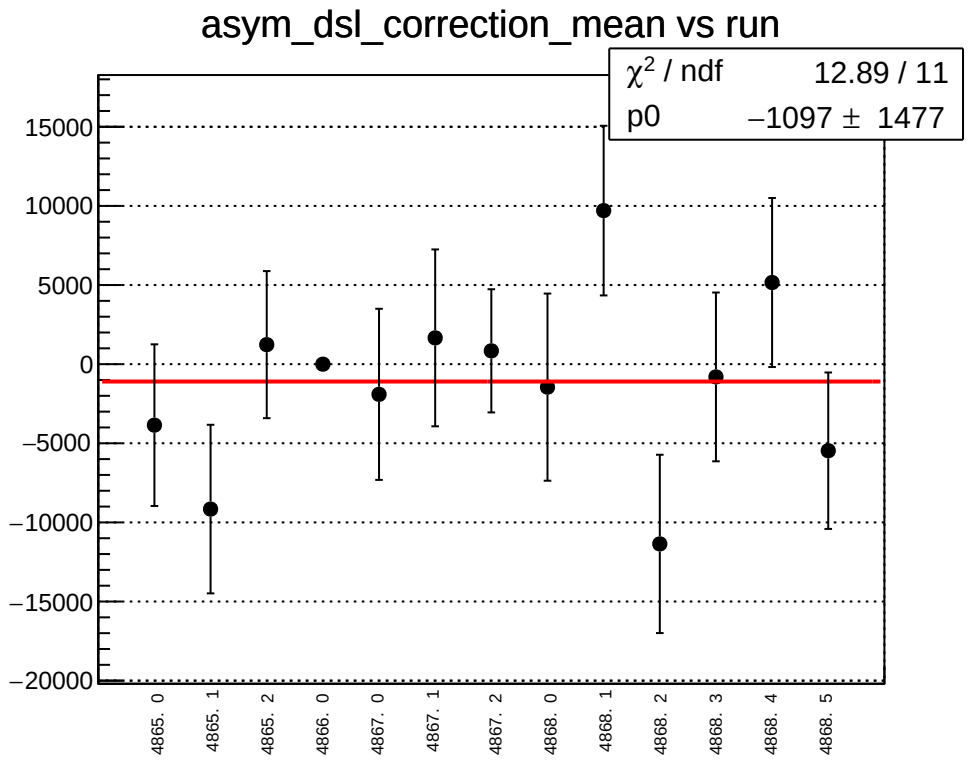
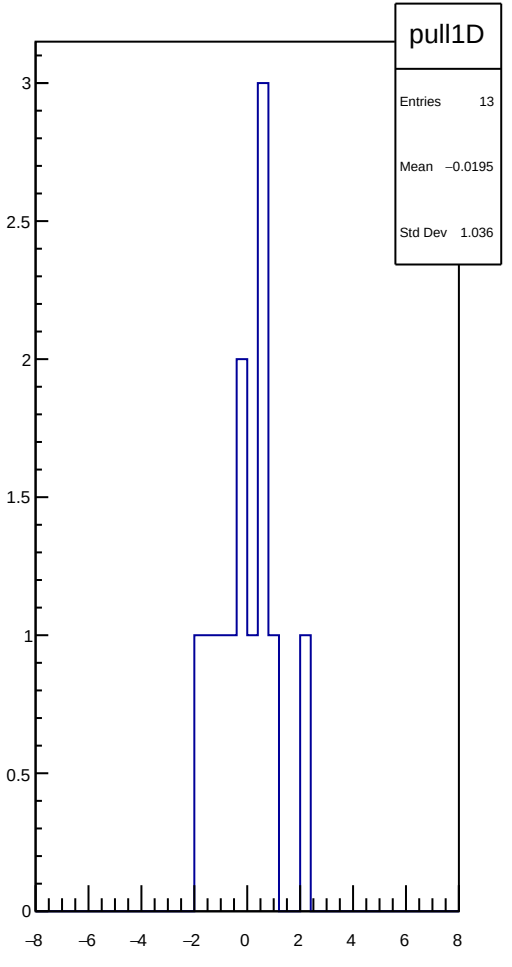
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_dsl_correction_mean vs run
χ² / ndf 12.89 / 11
p0 −1097 ± 1477
15000
10000
5000
0
−5000
−10000
−15000
−20000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.0195
Std Dev 1.036
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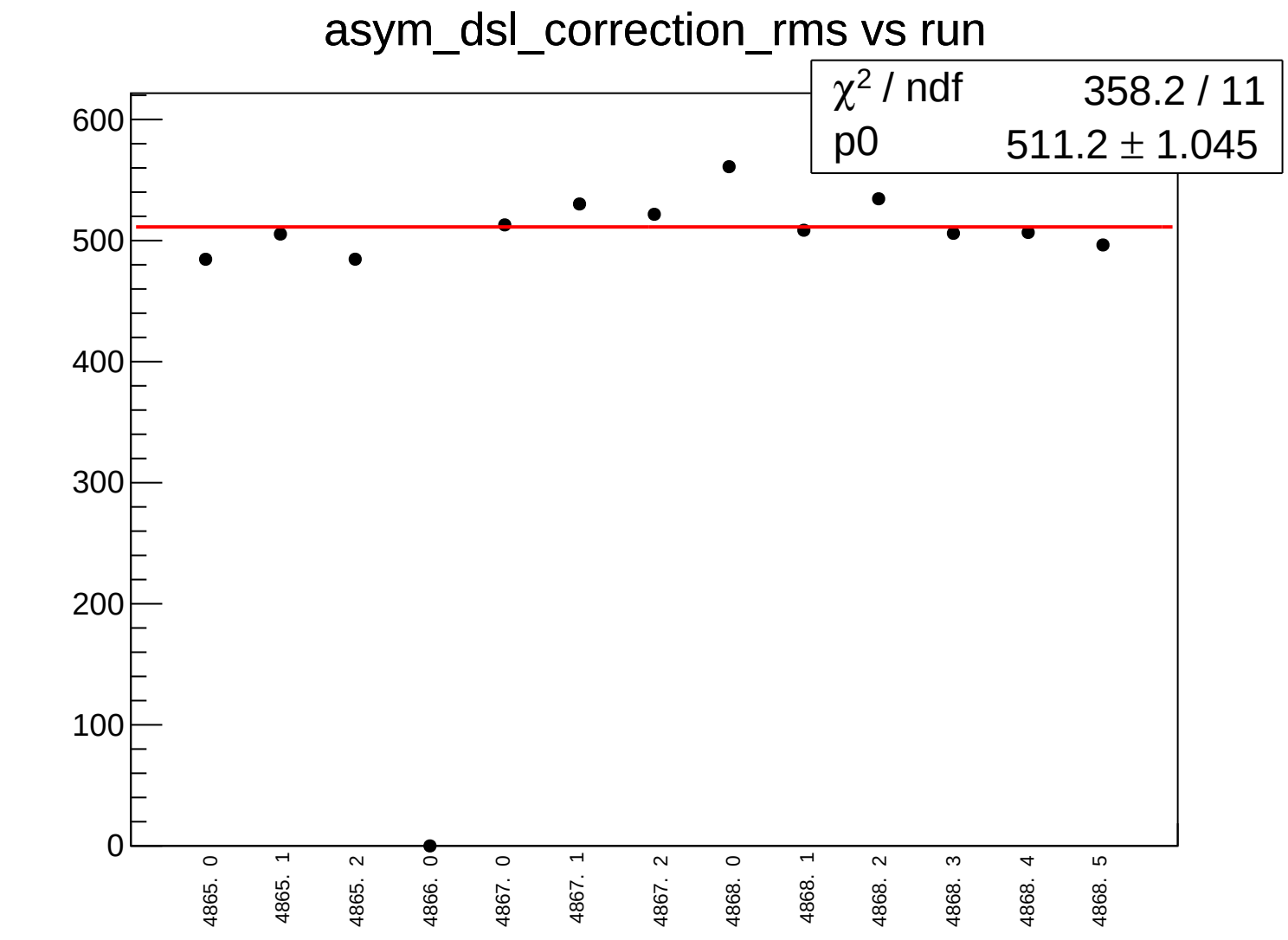
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_dsl_correction_rms vs run
χ^2 / ndf 358.2 / 11
p0 511.2 ± 1.045
600
500
400
300
200
100
0
4865. 0
4865. 1
4865. 2
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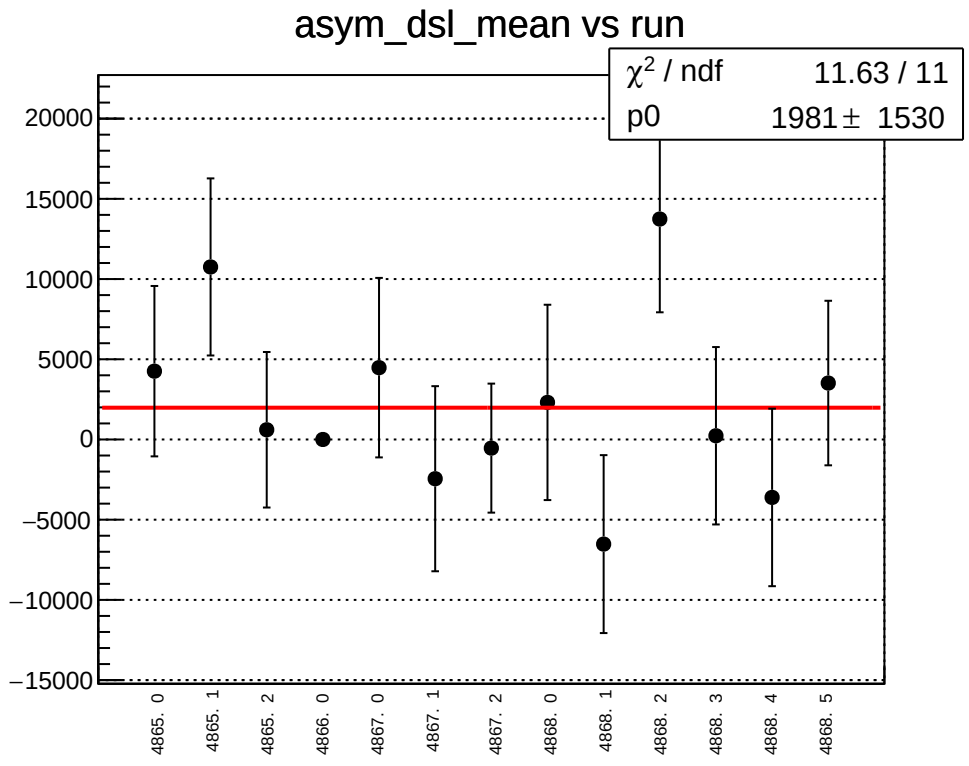
4868. 4
4868. 5


asym_dsl_mean vs run
χ² / ndf 11.63 / 11
p0 1981 ± 1530
20000
15000
10000
5000
0
−5000
−10000
−15000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
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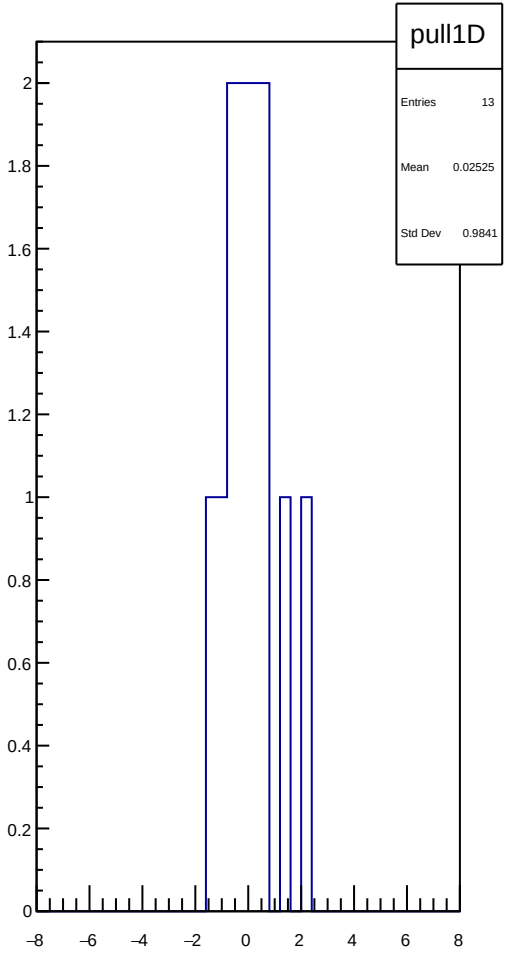
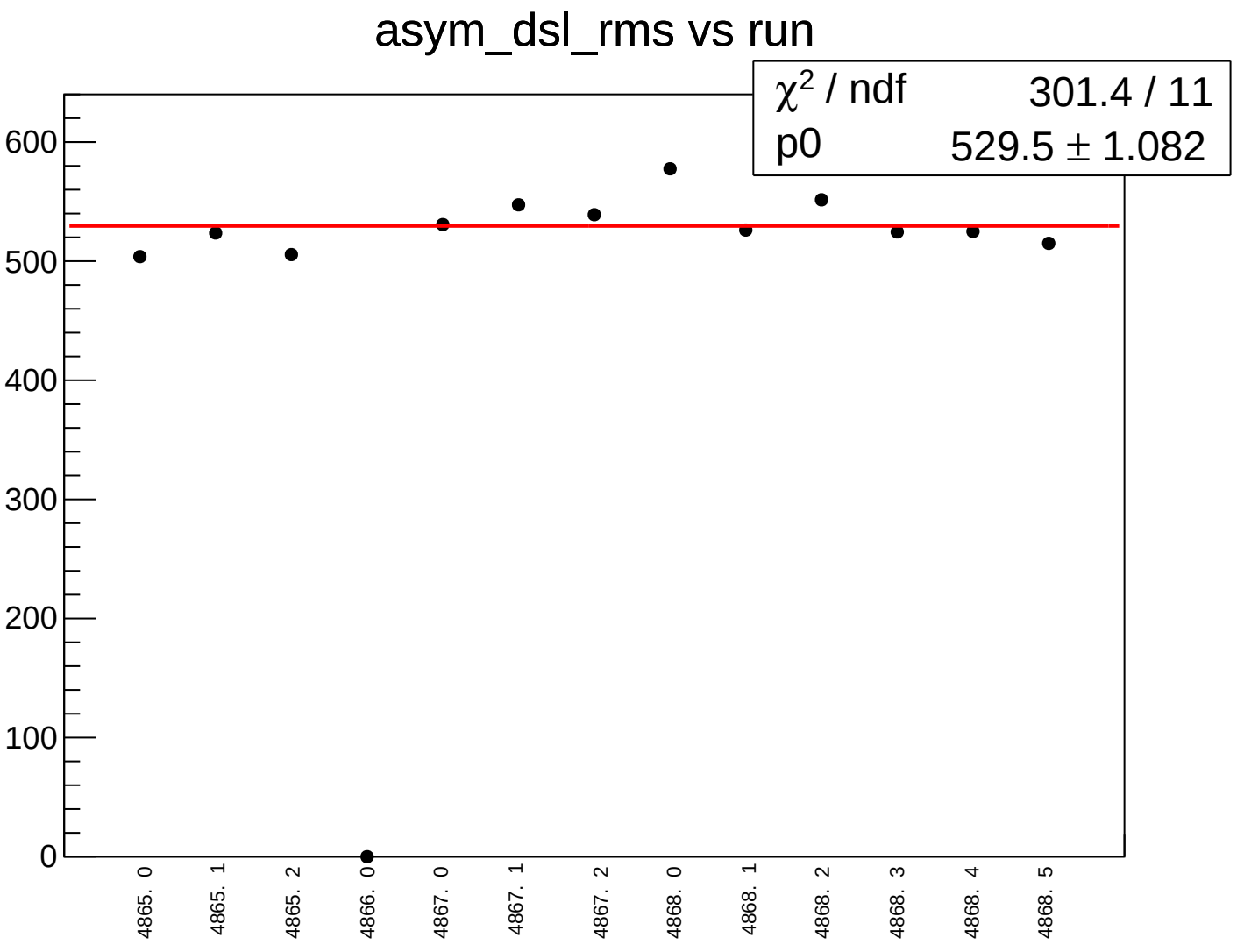
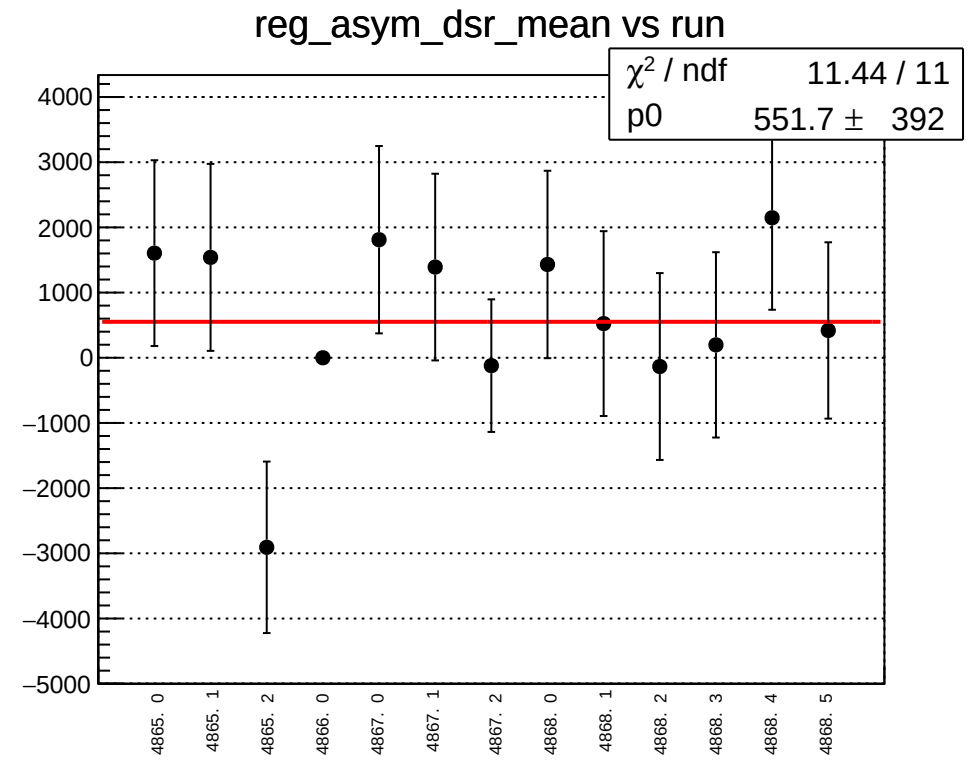
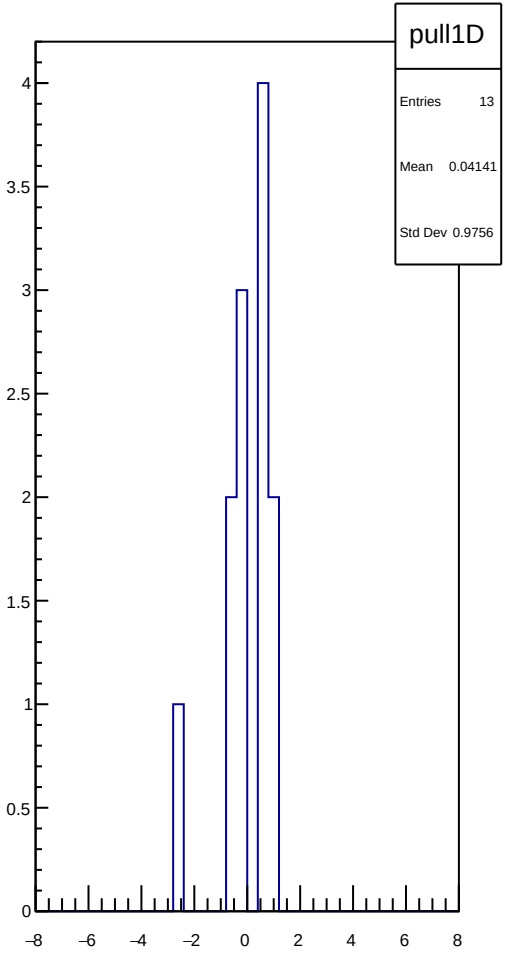
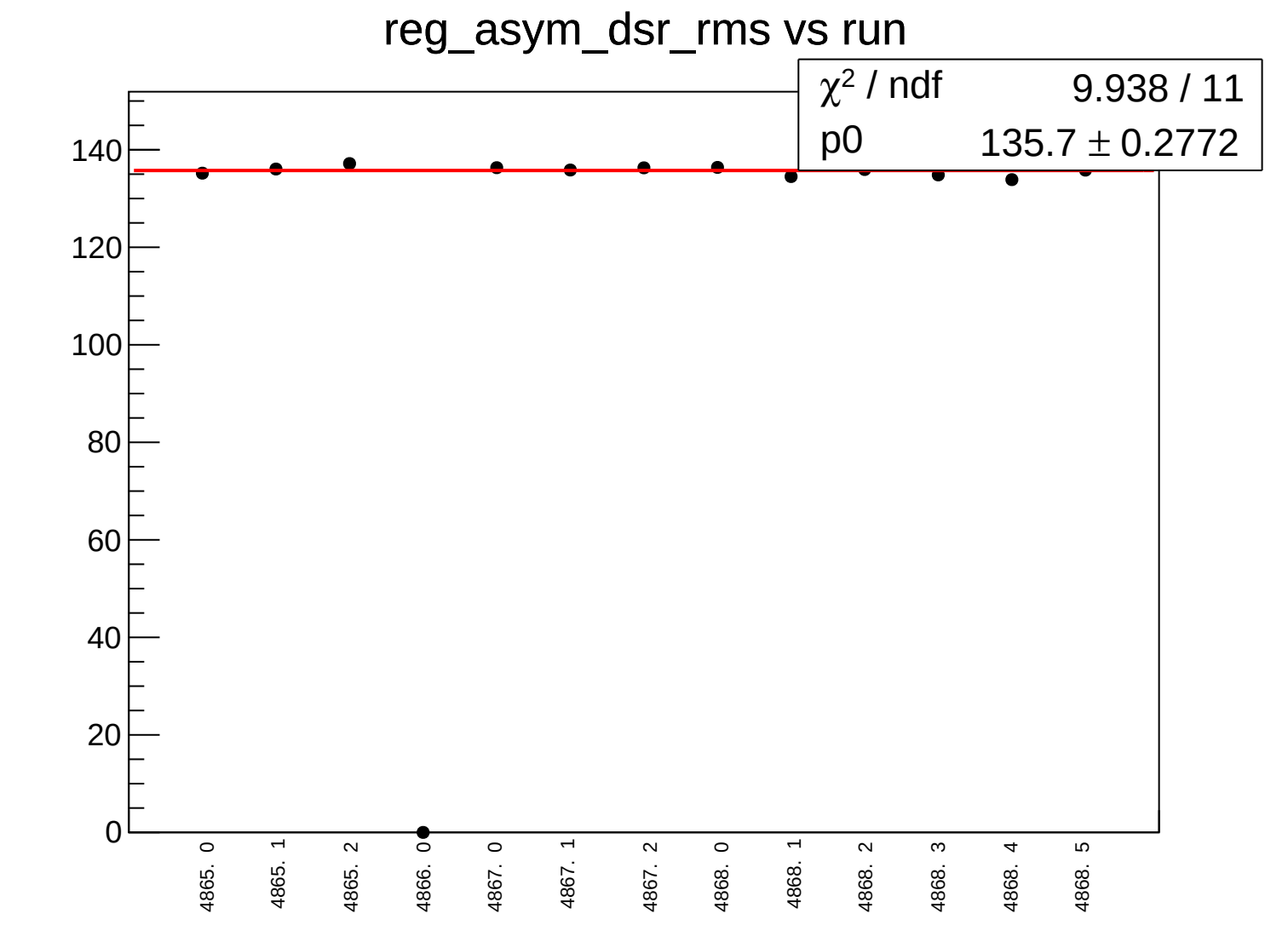
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.02525
Std Dev 0.9841
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


asym_dsl_rms vs run
χ² / ndf 301.4 / 11
p0 529.5 ± 1.082
600
500
400
300
200
100
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


reg_asym_dsr_mean vs run
χ² / ndf 11.44 / 11
p0 551.7 ± 392
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.04141
Std Dev 0.9756
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_dsr_rms vs run
χ² / ndf 9.938 / 11
p0 135.7 ± 0.2772
140
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
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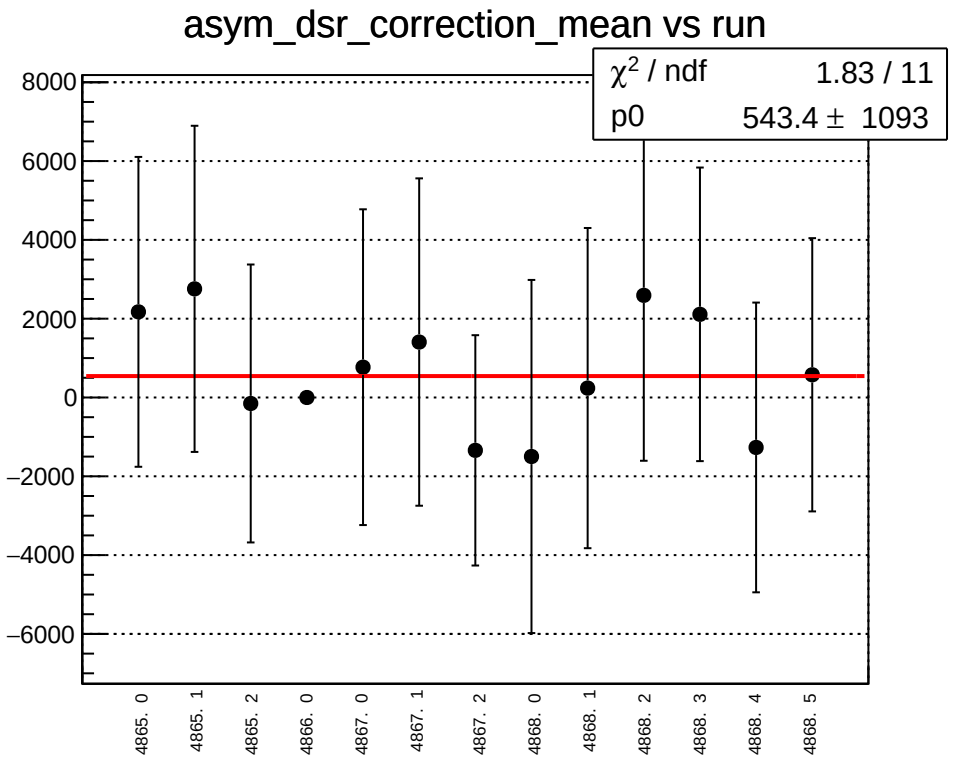
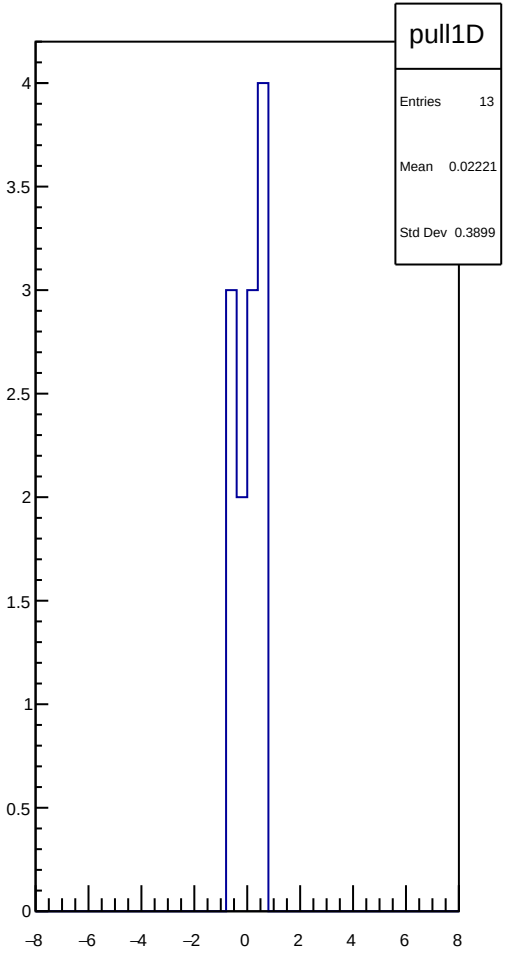
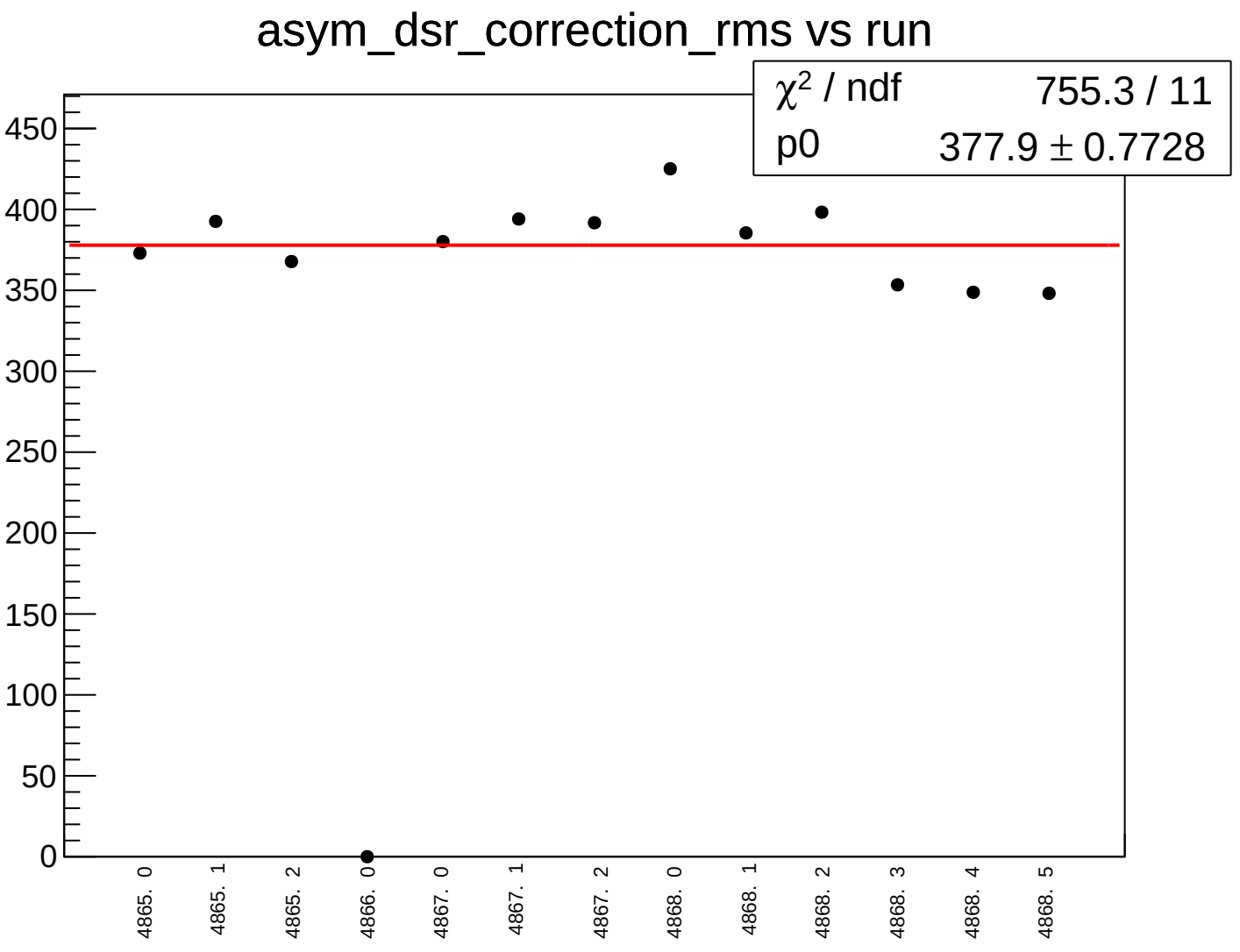
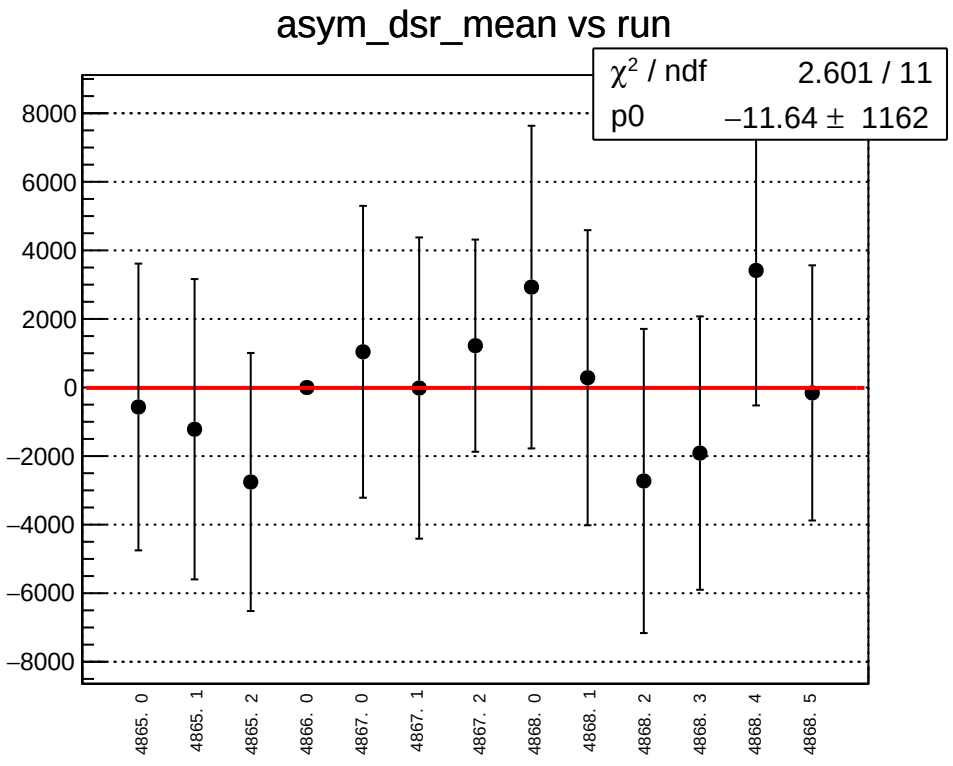
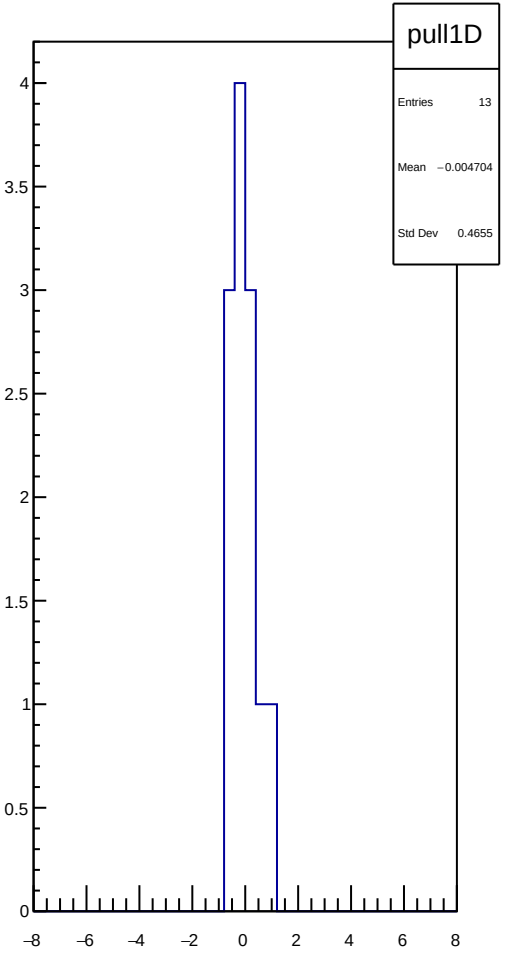
4868. 4
4868. 5

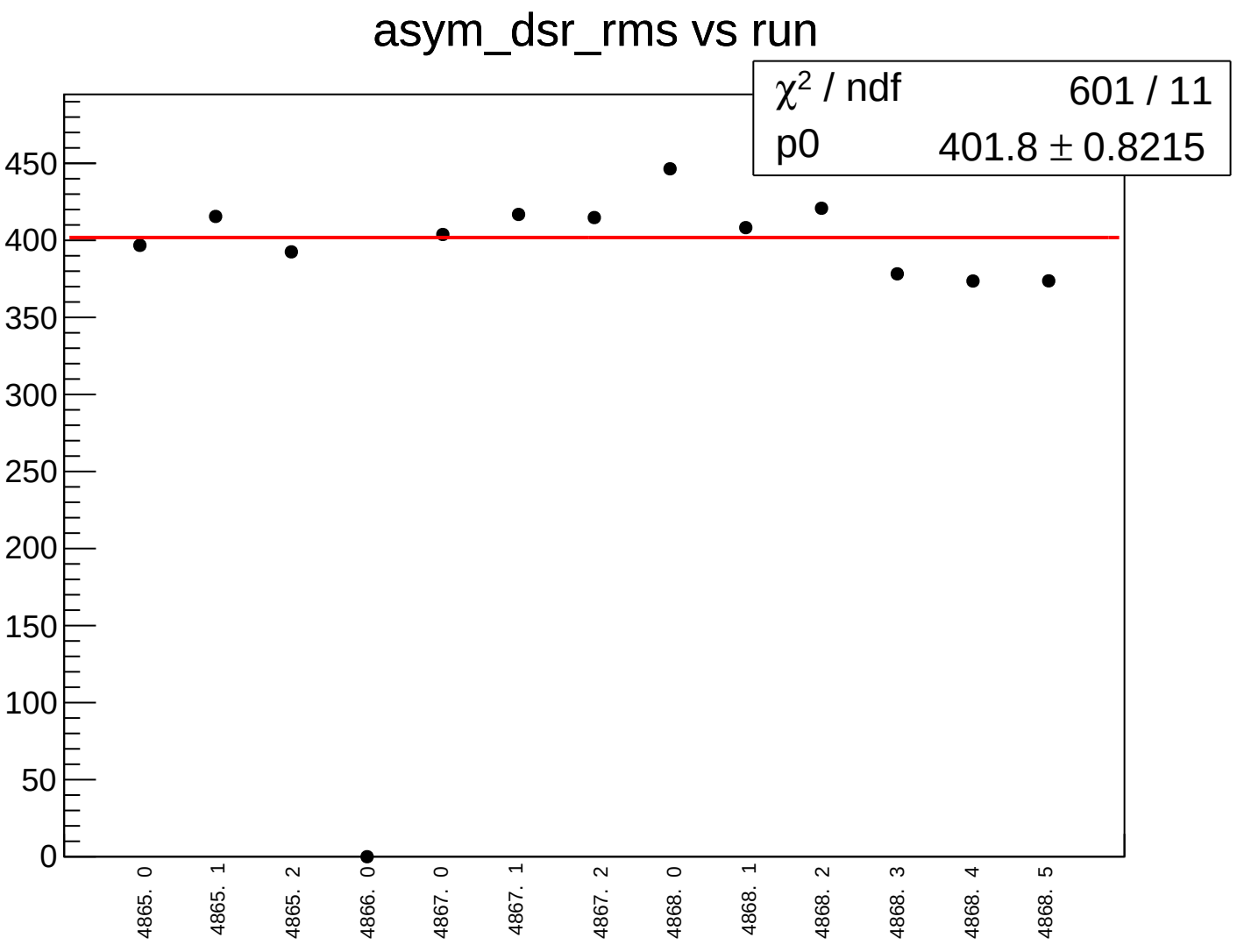

asym_dsr_correction_mean vs run
χ² / ndf 1.83 / 11
p0 543.4 ± 1093
8000
6000
4000
2000
0
−2000
−4000
−6000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

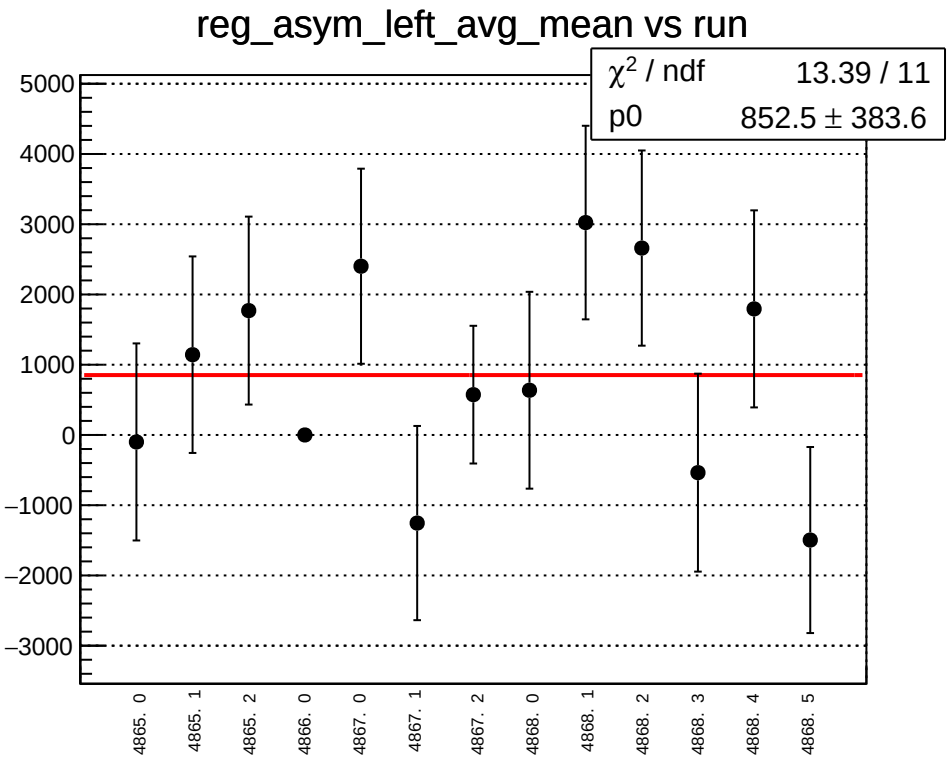

pull1D
Entries 13
Mean 0.02221
Std Dev 0.3899
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

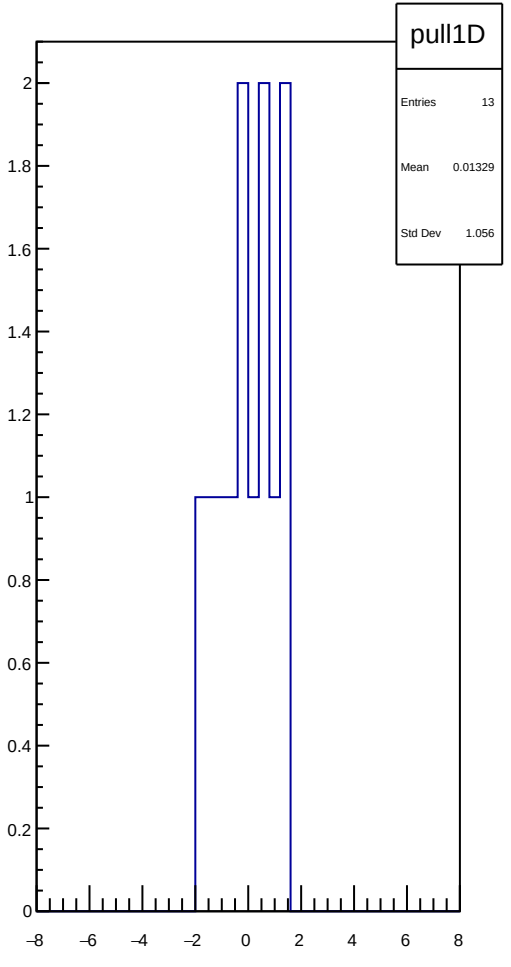

asym_dsr_correction_rms vs run
χ² / ndf 755.3 / 11
p0 377.9 ± 0.7728
450
400
350
300
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

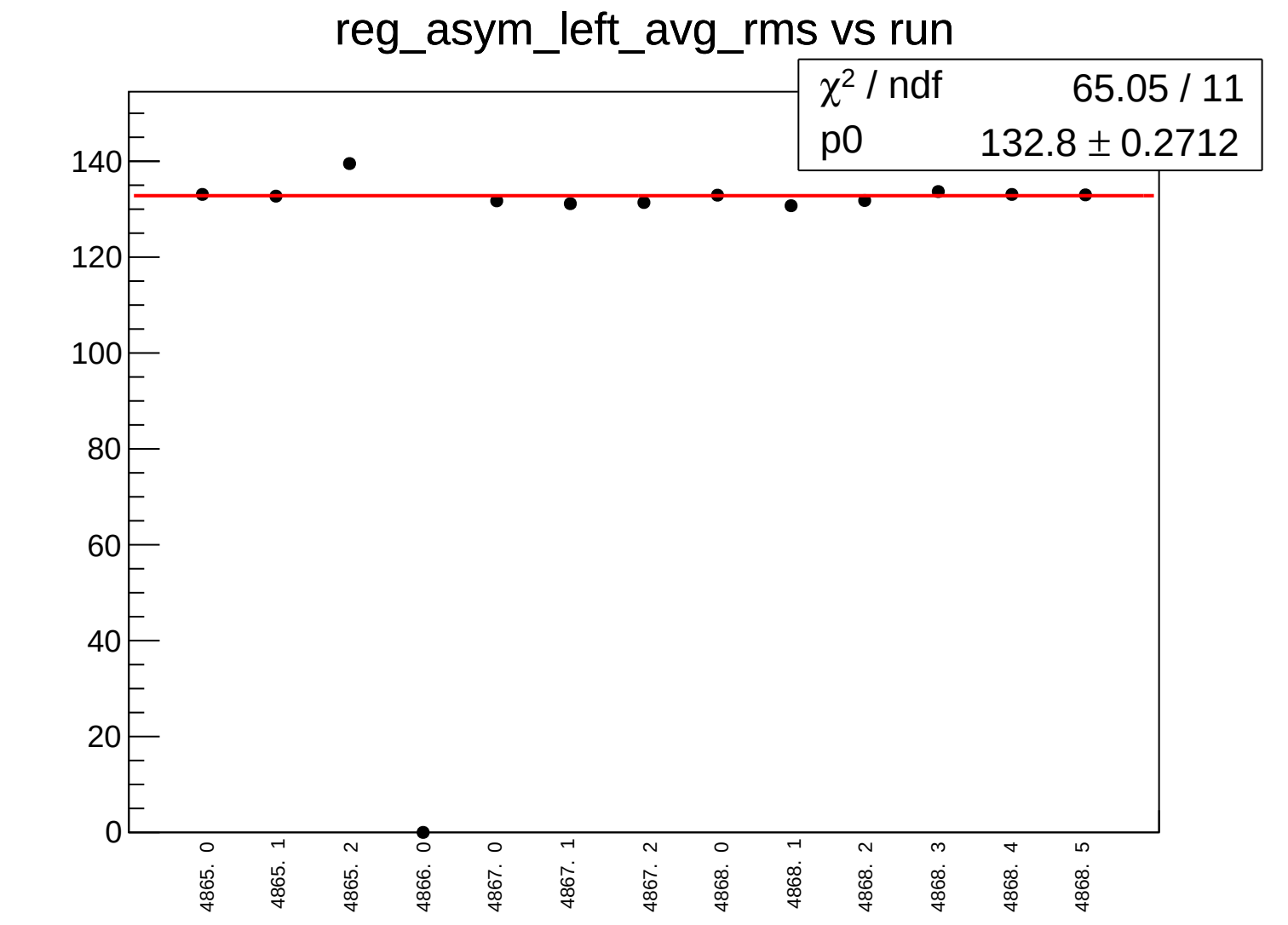

asym_dsr_mean vs run
χ² / ndf 2.601 / 11
p0 −11.64 ± 1162
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

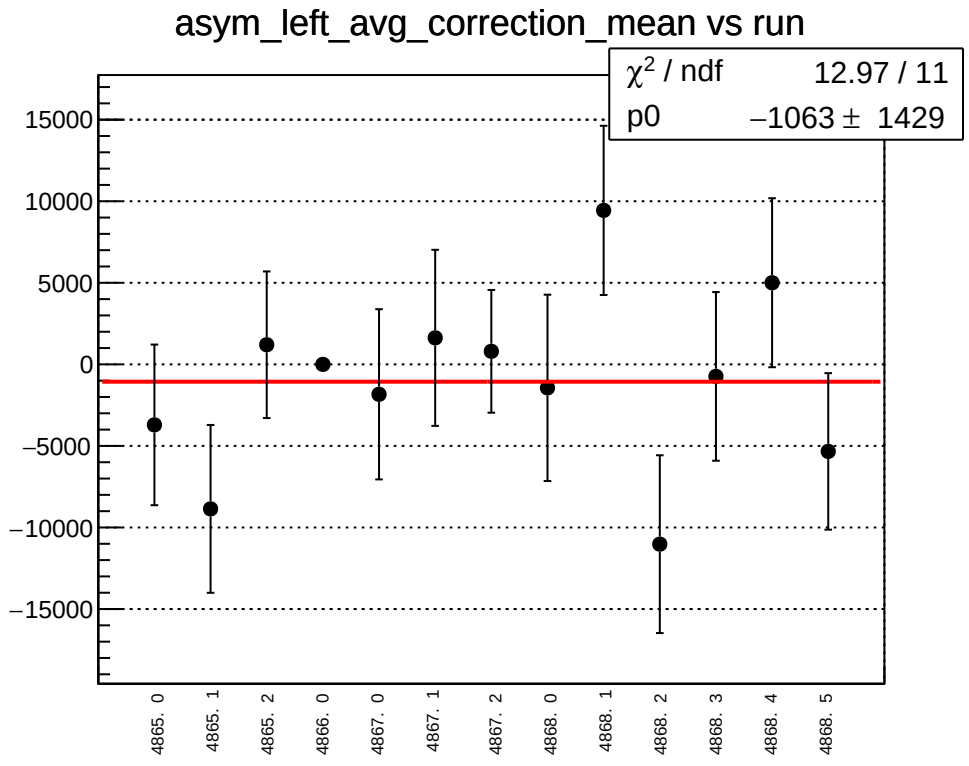

pull1D
Entries 13
Mean −0.004704
Std Dev 0.4655
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

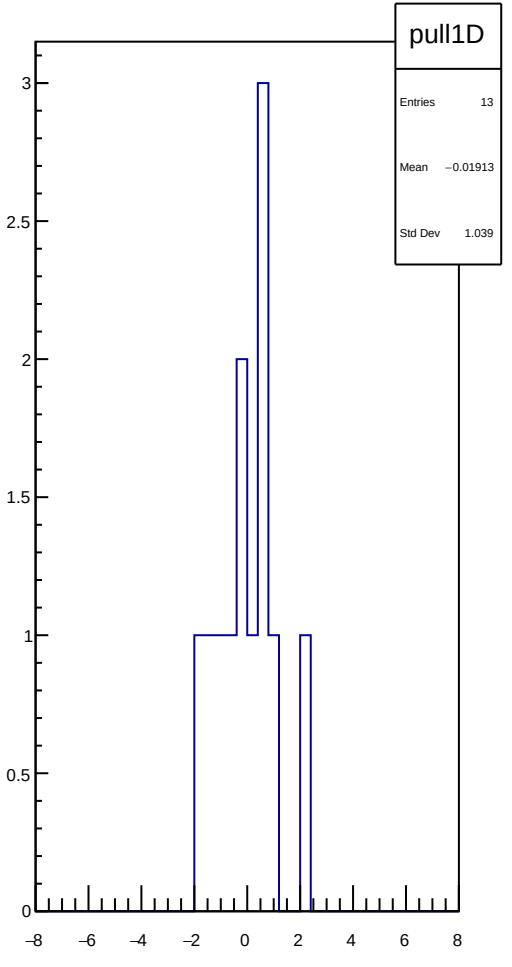

asym_dsr_rms vs run
χ² / ndf 601 / 11
p0 401.8 ± 0.8215
450
400
350
300
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

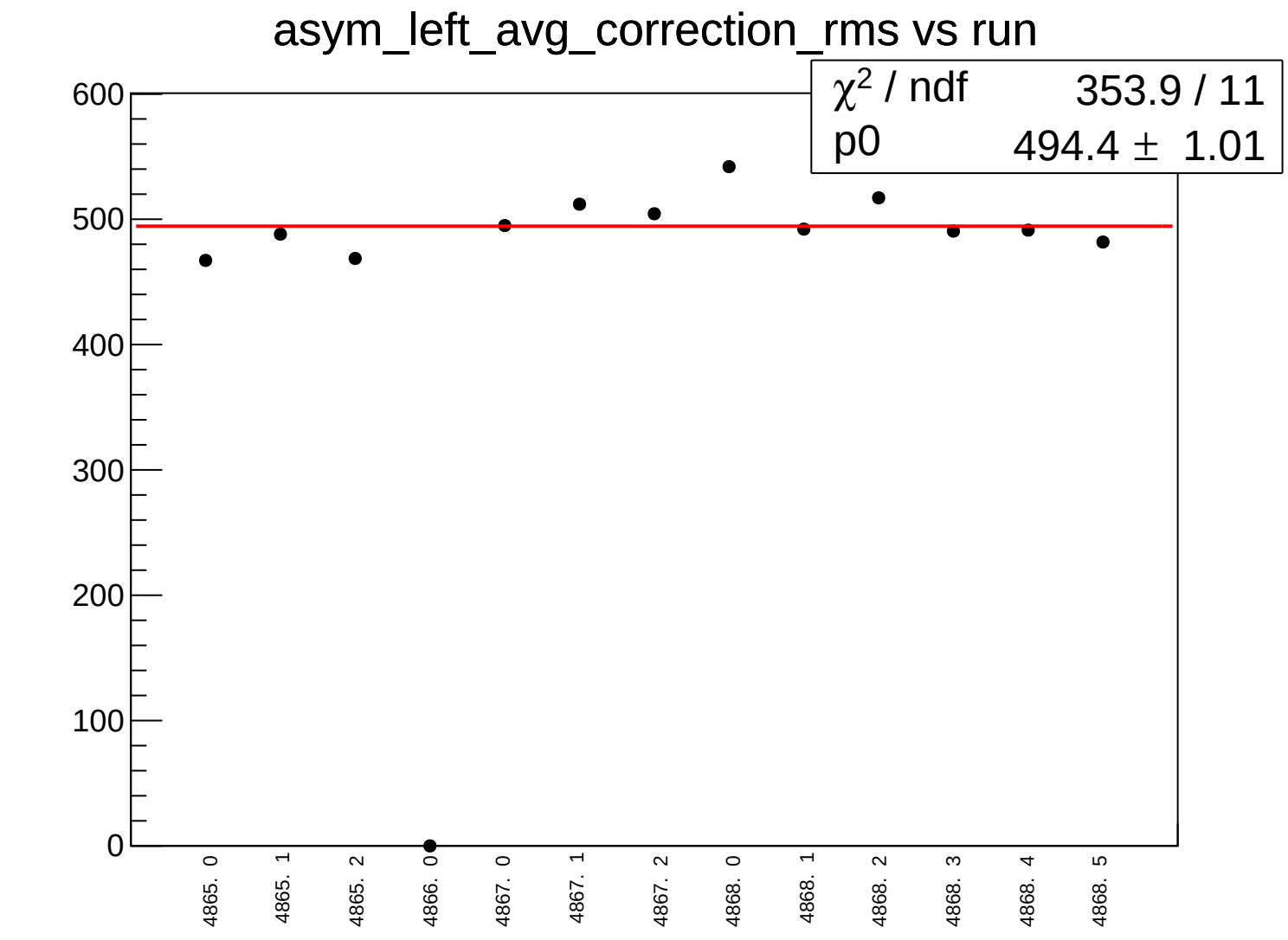

reg_asym_left_avg_mean vs run
χ² / ndf 13.39 / 11
p0 852.5 ± 383.6
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

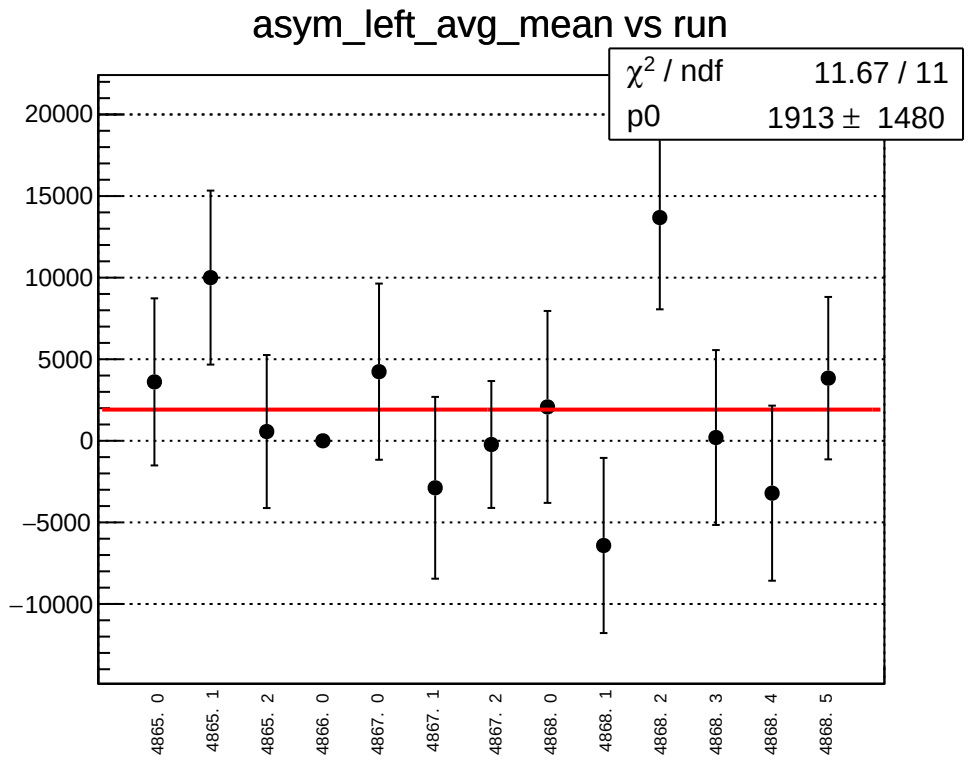

pull1D
Entries 13
Mean 0.01329
Std Dev 1.056
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

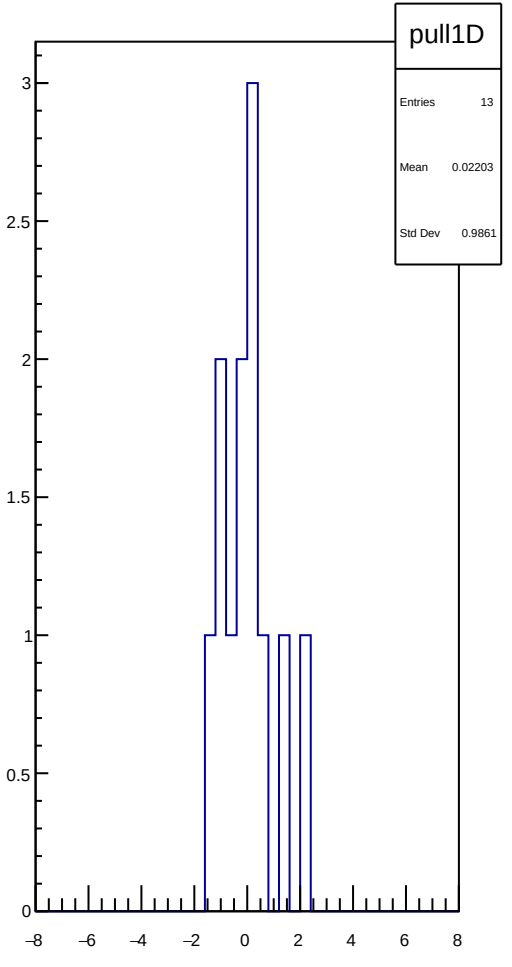

reg_asym_left_avg_rms vs run
χ² / ndf 65.05 / 11
p0 132.8 ± 0.2712
140
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_left_avg_correction_mean vs run
χ² / ndf 12.97 / 11
p0 −1063 ± 1429
15000
10000
5000
0
−5000
−10000
−15000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.01913
Std Dev 1.039
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_left_avg_correction_rms vs run
χ2 / ndf 353.9 / 11
p0 494.4 ± 1.01
600
500
400
300
200
100
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_left_avg_mean vs run
χ² / ndf 11.67 / 11
p0 1913 ± 1480
20000
15000
10000
5000
0
−5000
−10000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.02203
Std Dev 0.9861
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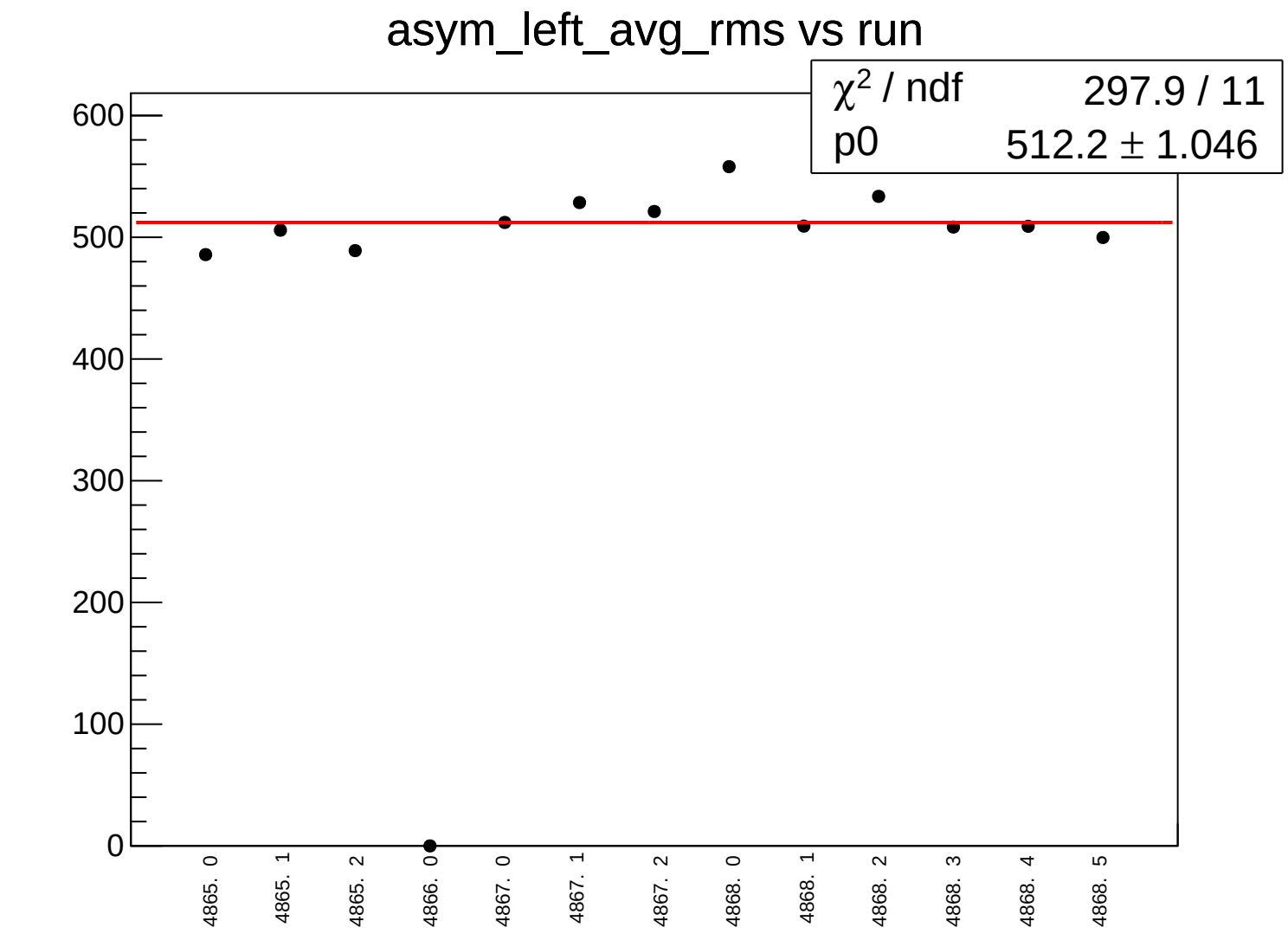
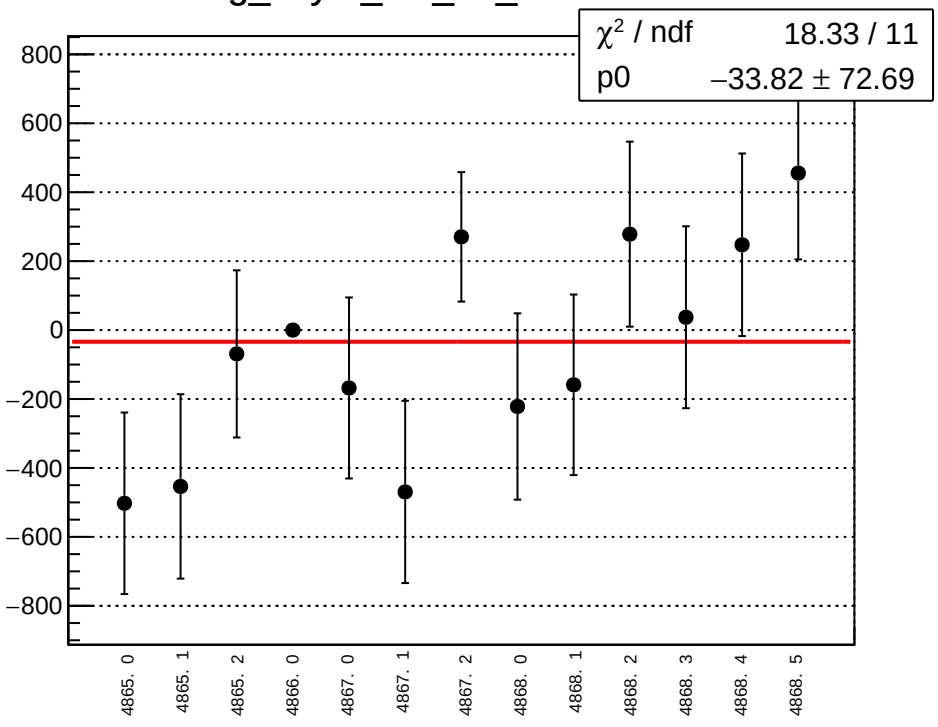
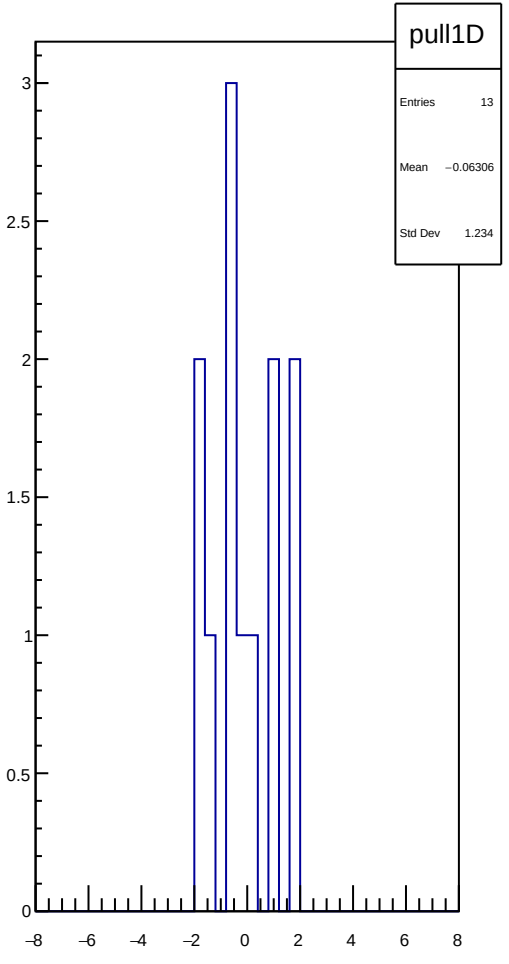
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_left_avg_rms vs run
χ^2 / ndf 297.9 / 11
p0 512.2 ± 1.046
600
500
400
300
200
100
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


reg_asym_left_dd_mean vs run
χ² / ndf 18.33 / 11
p0 −33.82 ± 72.69
800
600
400
200
0
−200
−400
−600
−800
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.06306
Std Dev 1.234
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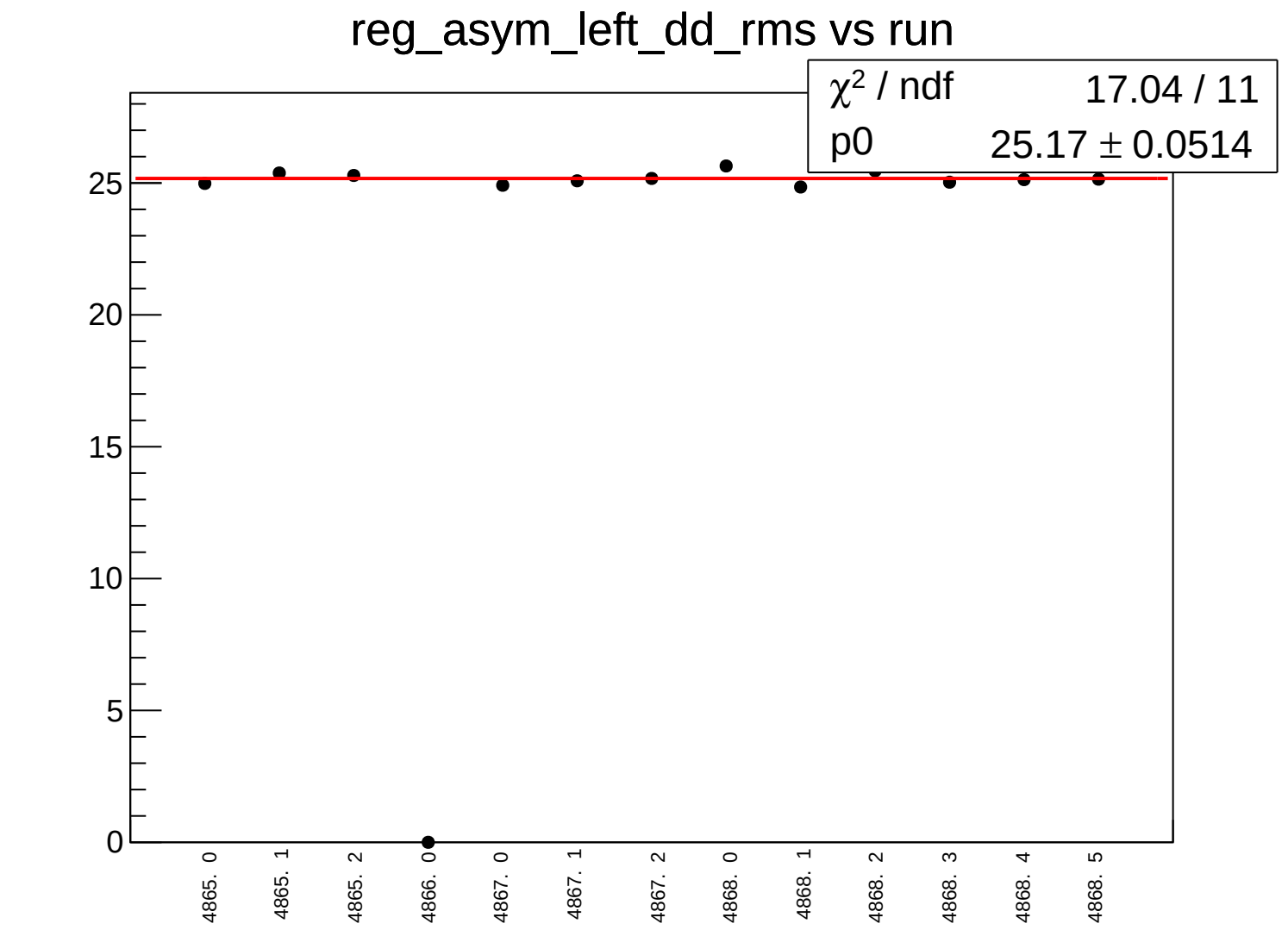
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_left_dd_rms vs run
χ² / ndf 17.04 / 11
p0 25.17 ± 0.0514
25
20
15
10
5
0
4865. 0
4865. 1
4865. 2
4866. 0
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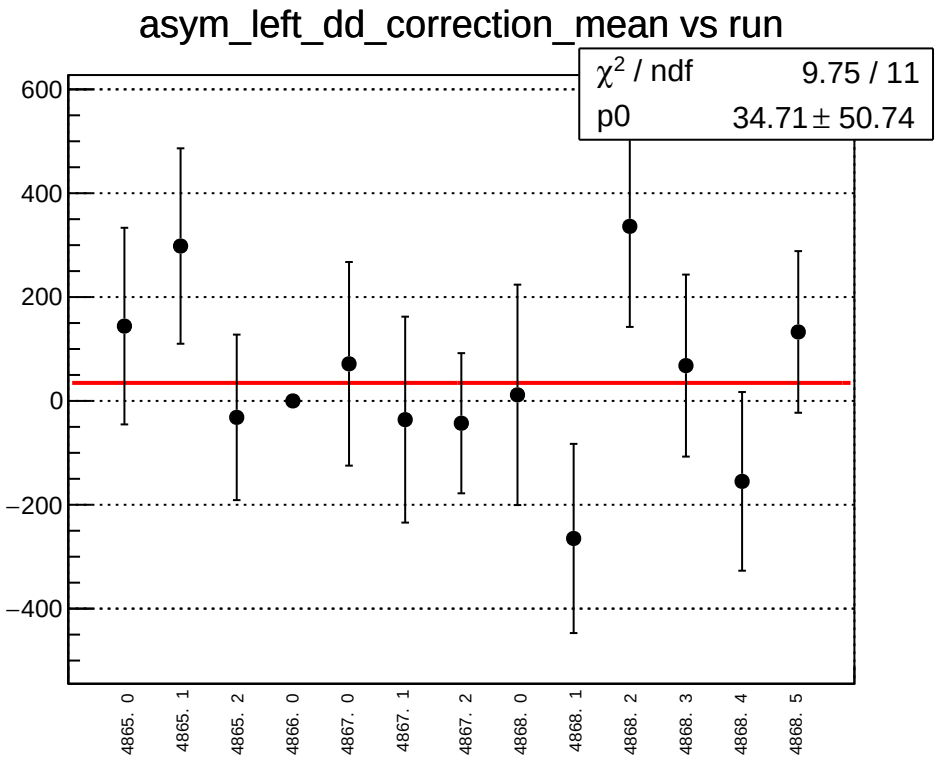
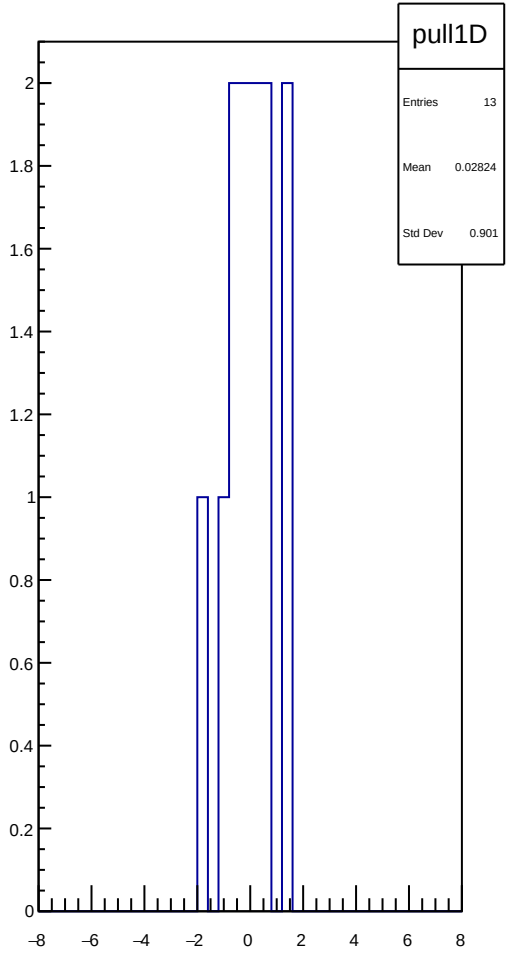
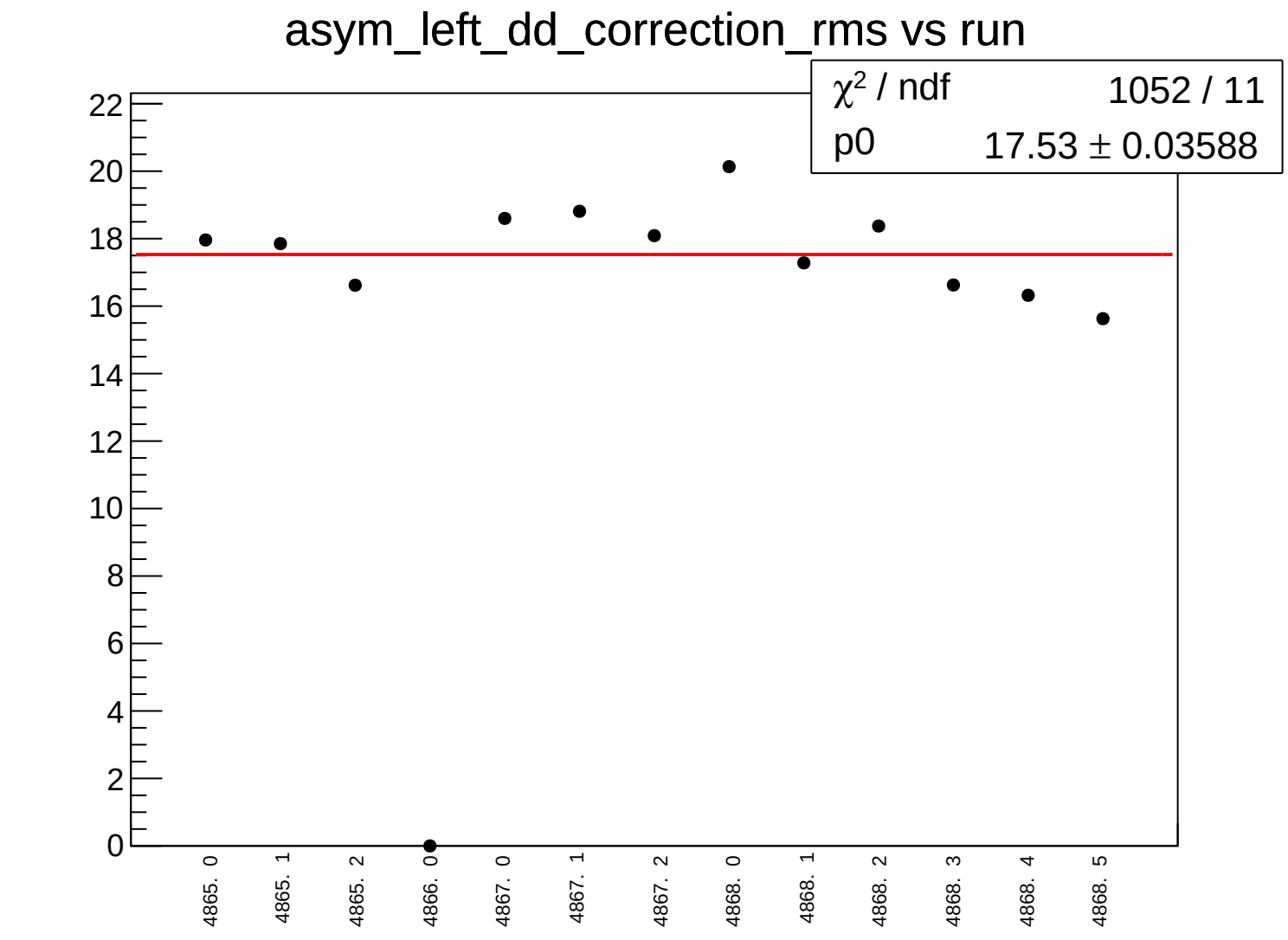
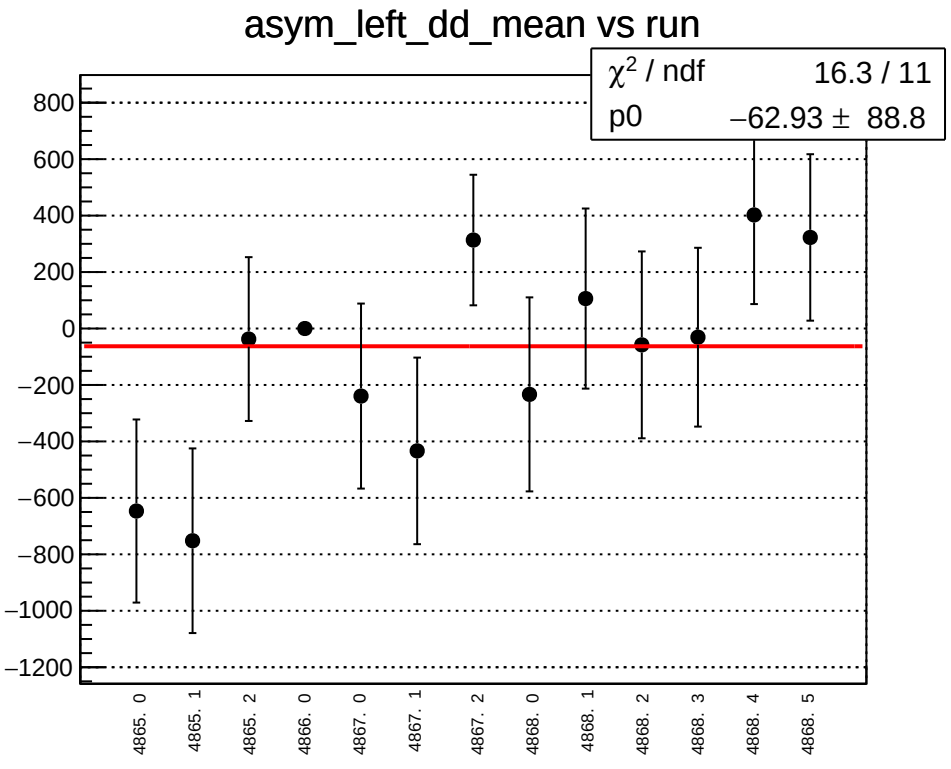
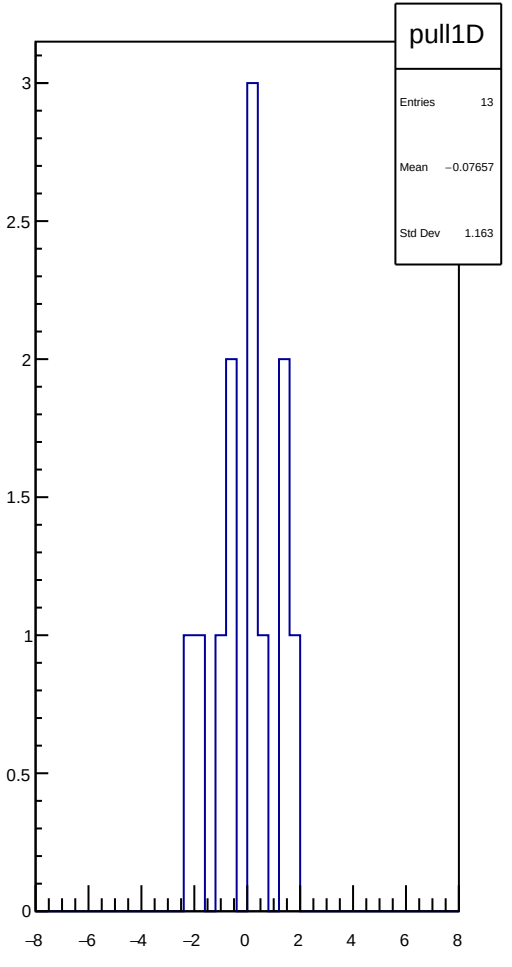
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

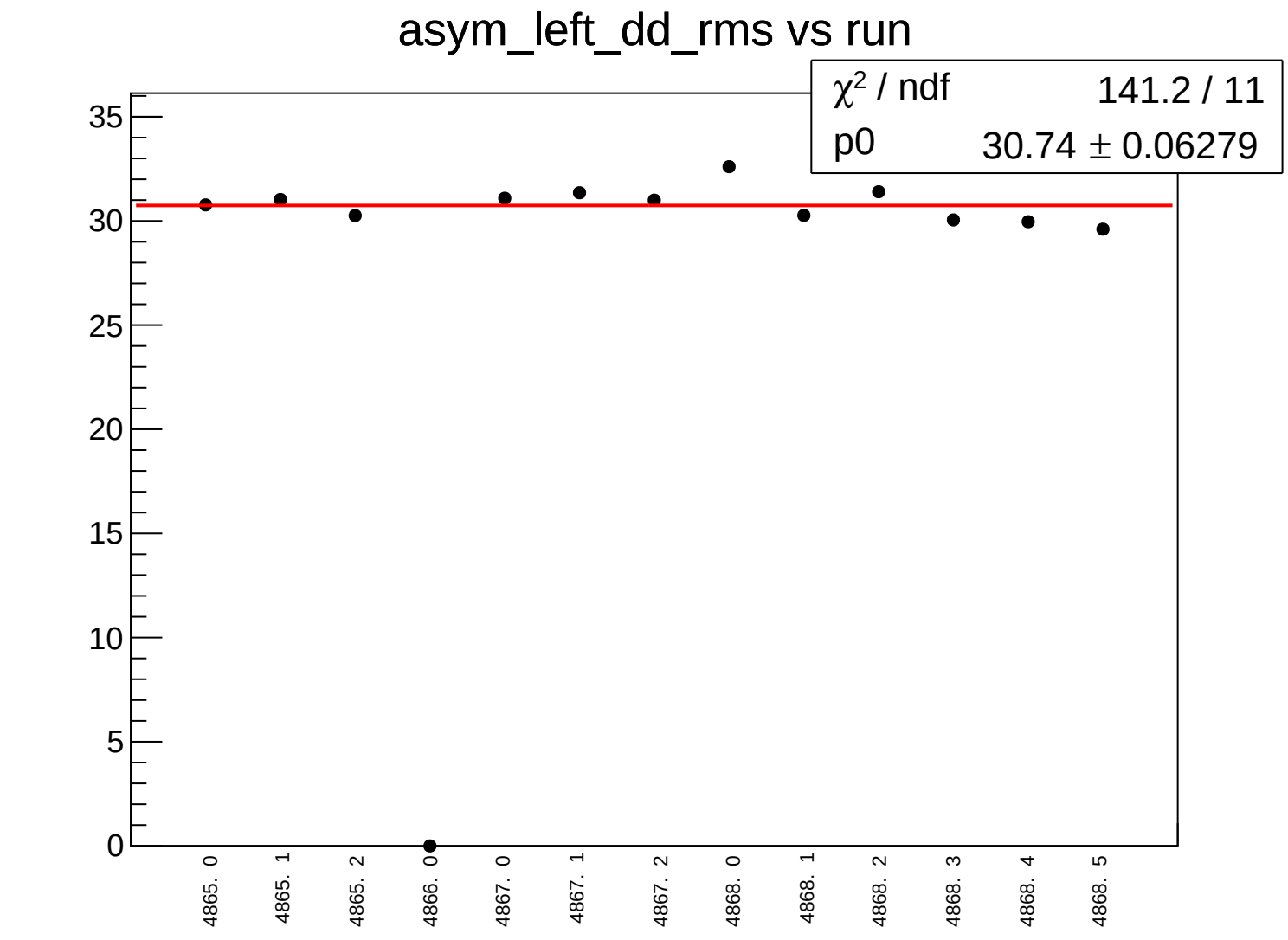

asym_left_dd_correction_mean vs run
χ² / ndf 9.75 / 11
p0 34.71 ± 50.74
600
400
200
0
−200
−400
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

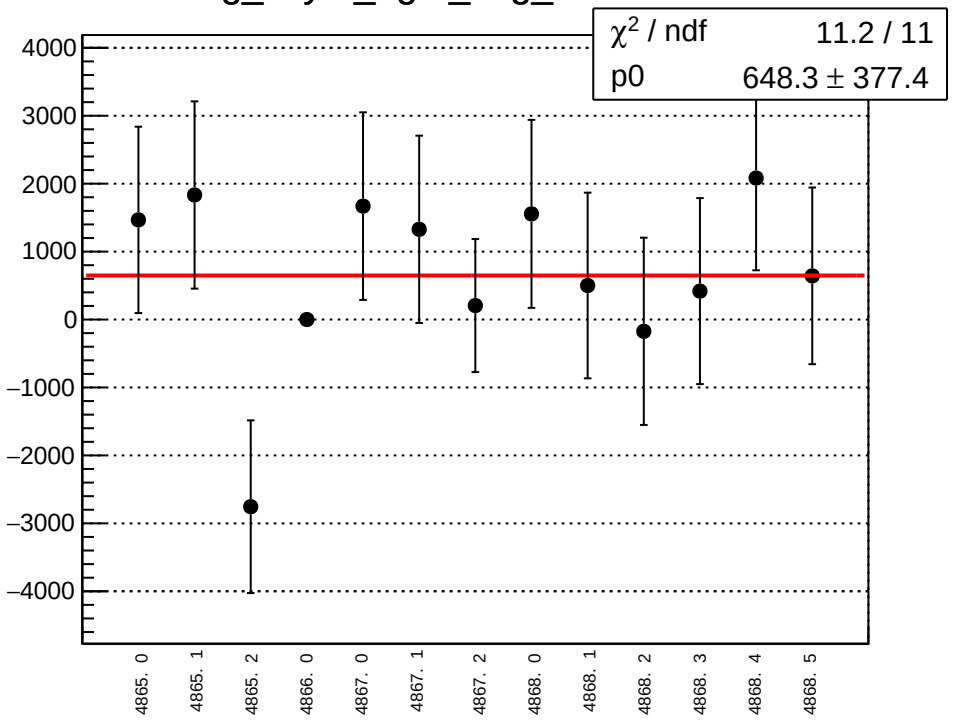

pull1D
Entries 13
Mean 0.02824
Std Dev 0.901
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


asym_left_dd_correction_rms vs run
χ² / ndf 1052 / 11
p0 17.53 ± 0.03588
22
20
18
16
14
12
10
8
6
4
2
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_left_dd_mean vs run
χ² / ndf 16.3 / 11
p0 −62.93 ± 88.8
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.07657
Std Dev 1.163
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_left_dd_rms vs run
χ² / ndf 141.2 / 11
p0 30.74 ± 0.06279
35
30
25
20
15
10
5
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


reg_asym_right_avg_mean vs run
χ² / ndf 11.2 / 11
p0 648.3 ± 377.4
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
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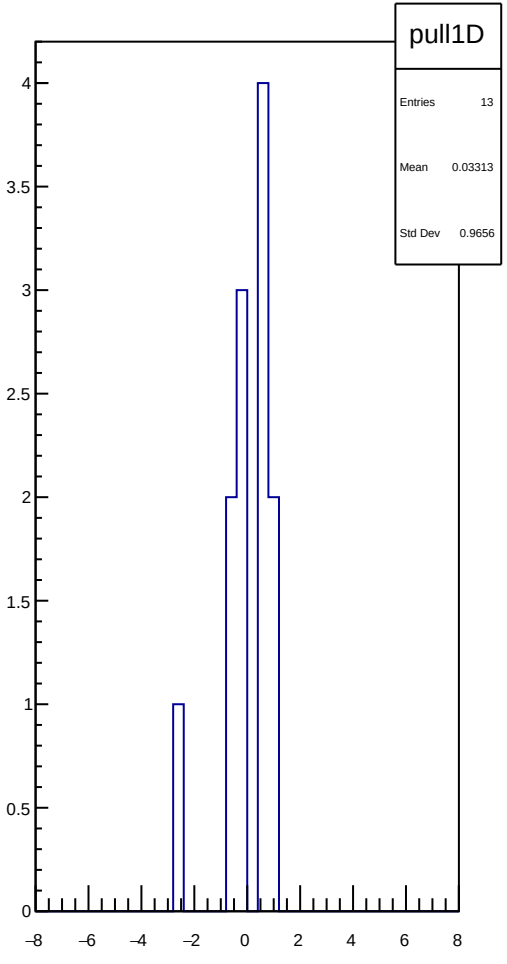
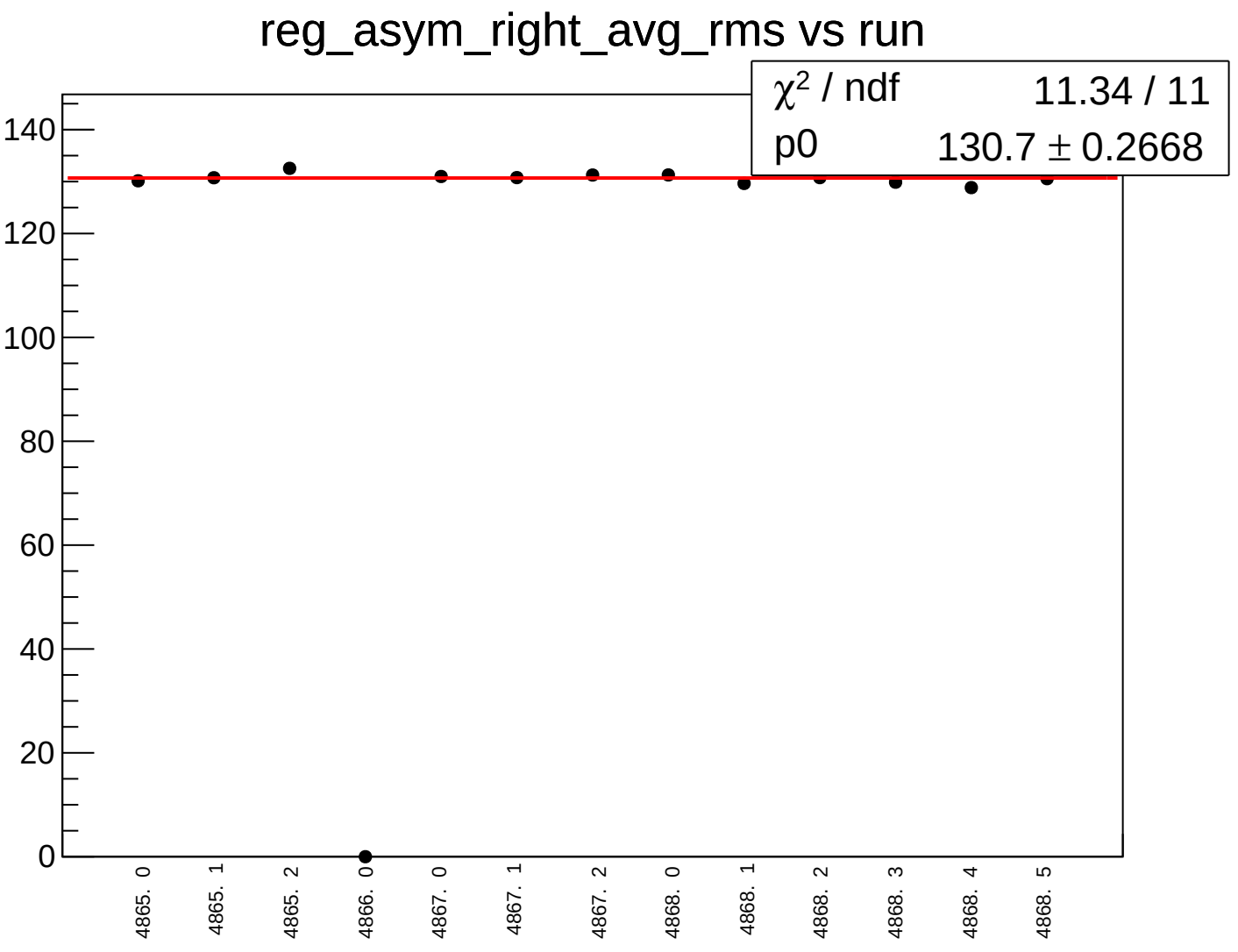
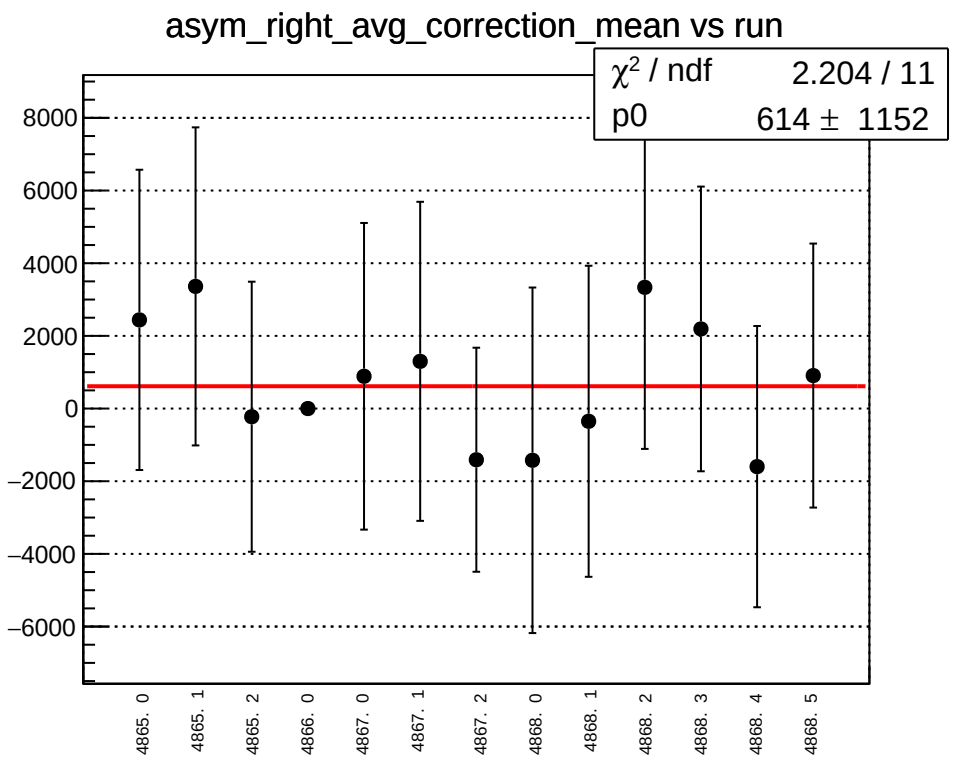
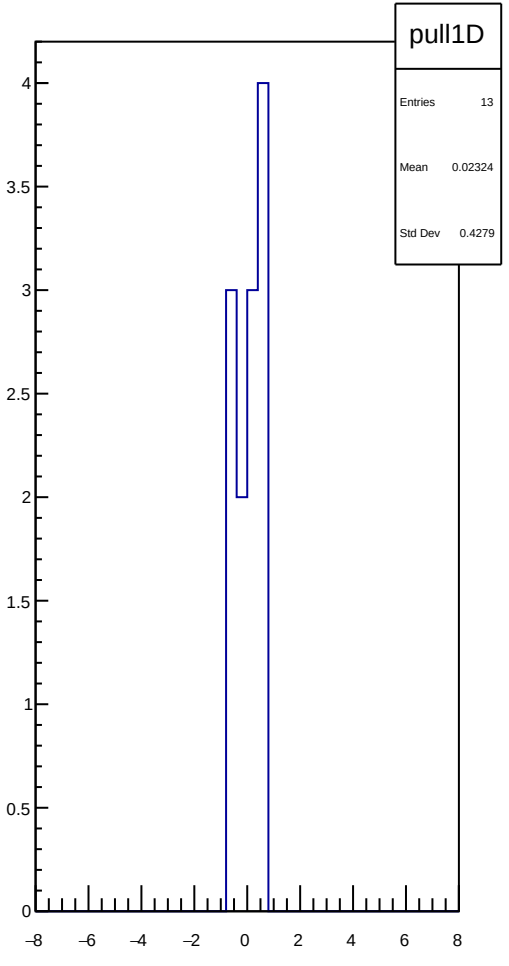
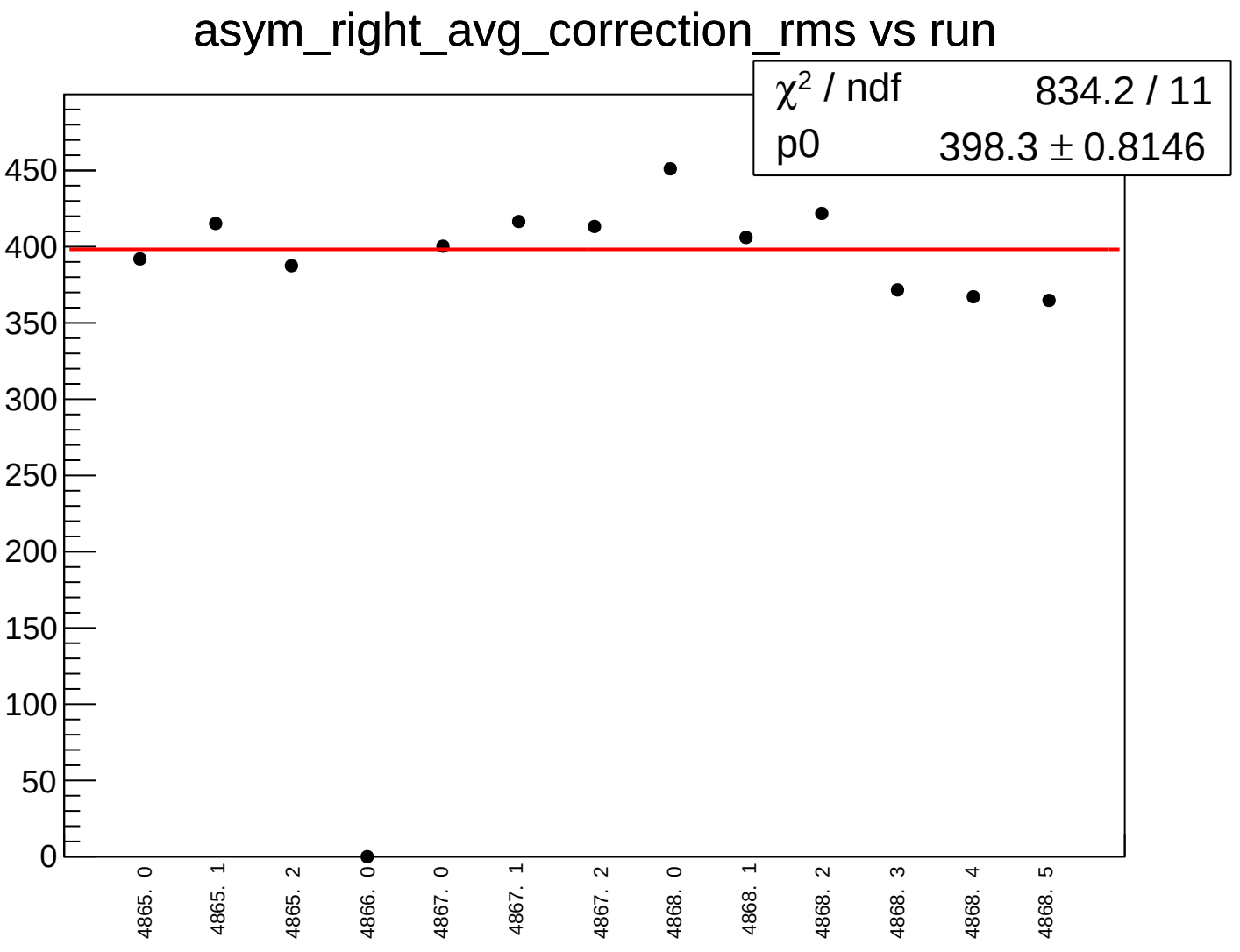
4868. 4
4868. 5

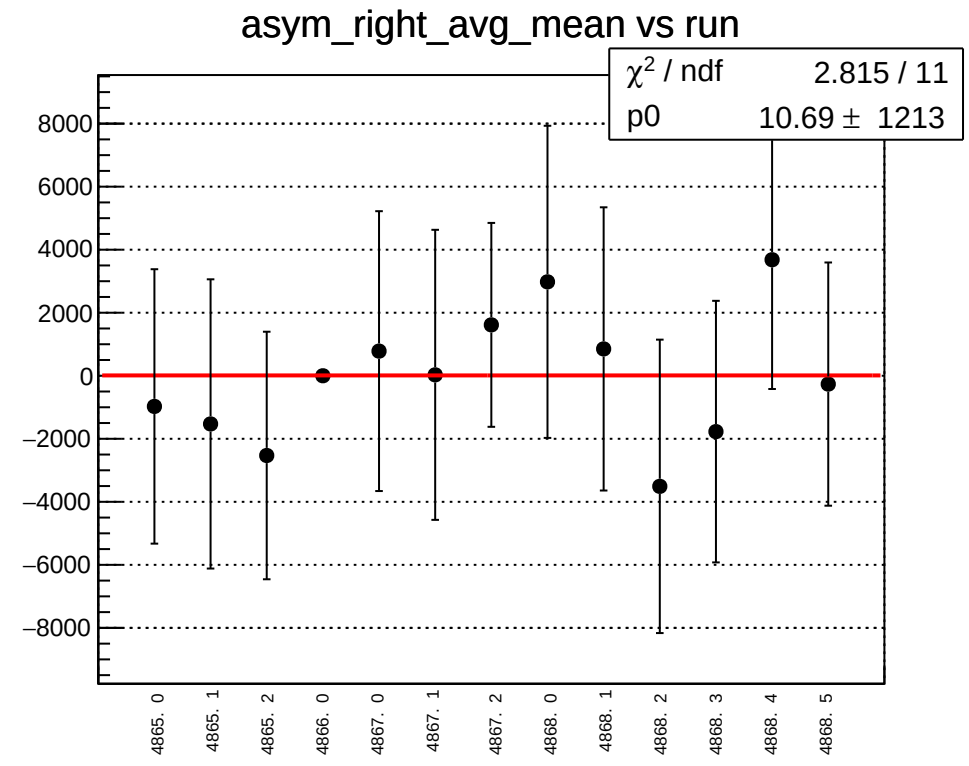

pull1D
Entries 13
Mean 0.03313
Std Dev 0.9656
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

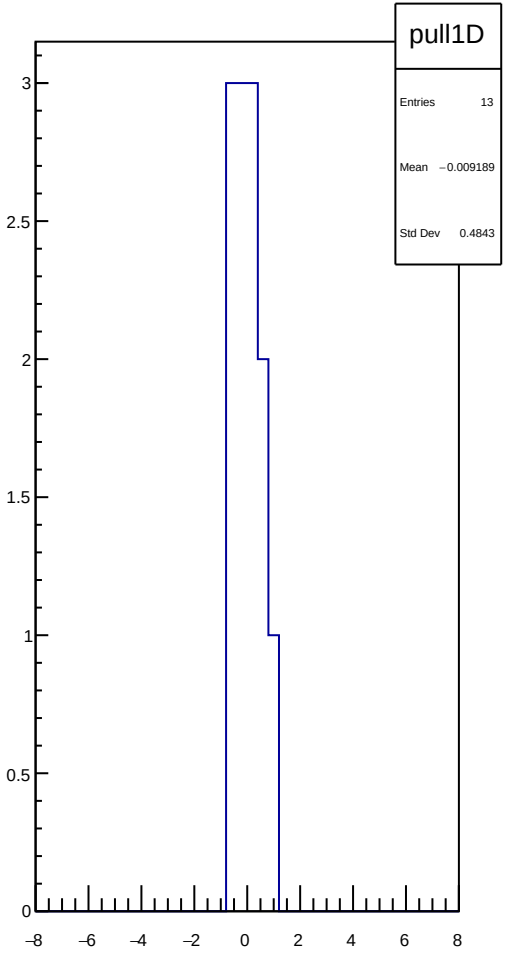

reg_asym_right_avg_rms vs run
χ² / ndf 11.34 / 11
p0 130.7 ± 0.2668
140
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

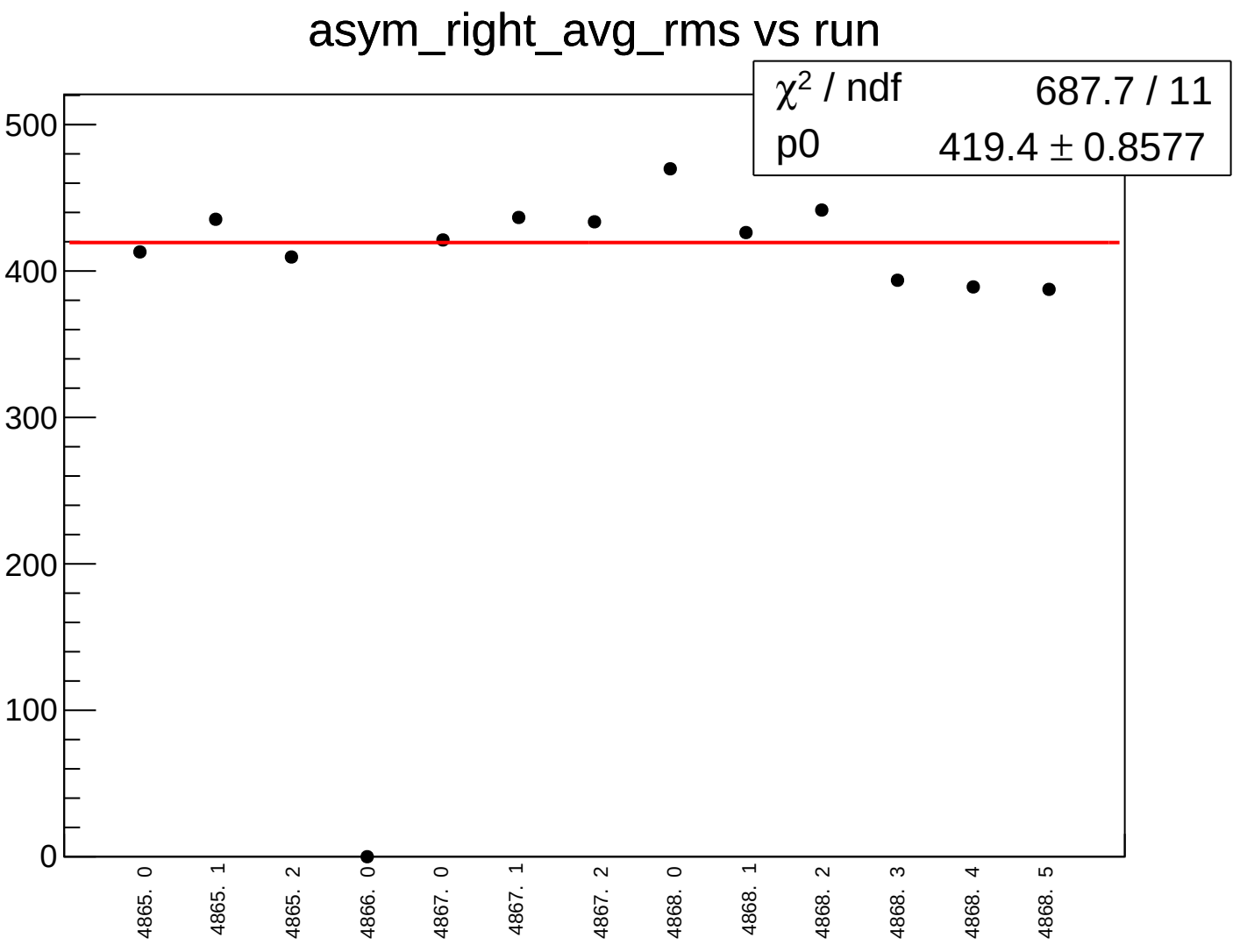

asym_right_avg_correction_mean vs run
χ² / ndf 2.204 / 11
p0 614 ± 1152
8000
6000
4000
2000
0
−2000
−4000
−6000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

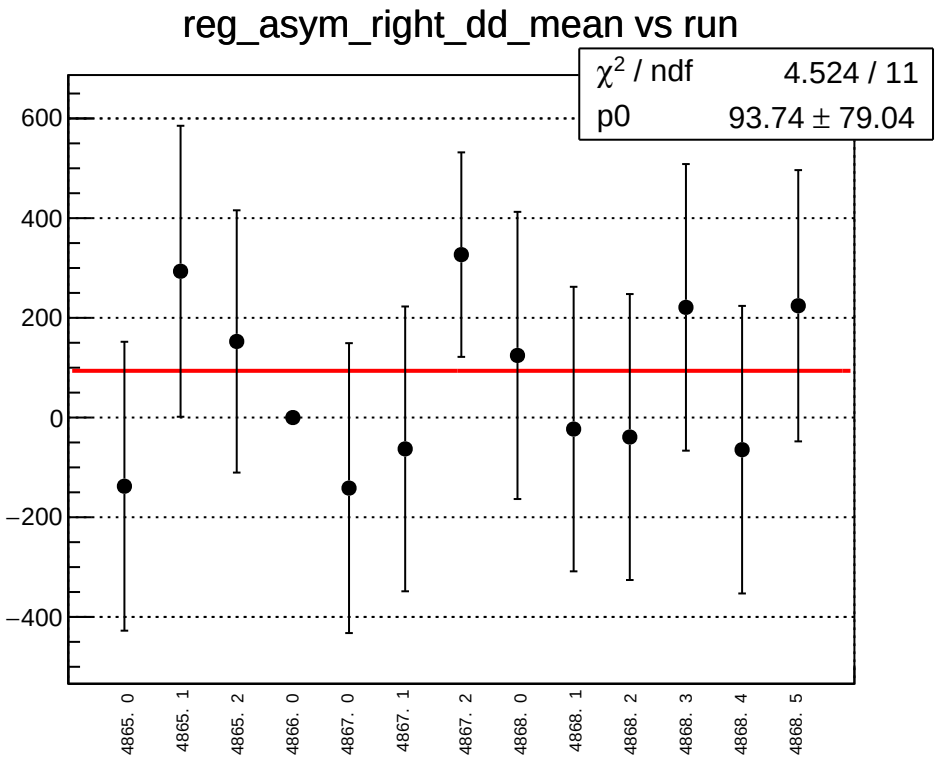

pull1D
Entries 13
Mean 0.02324
Std Dev 0.4279
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

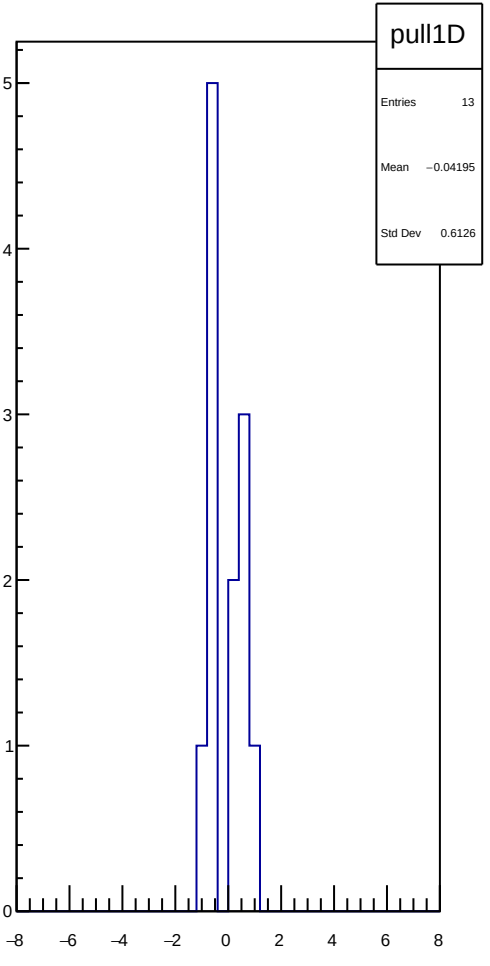

asym_right_avg_correction_rms vs run
χ² / ndf 834.2 / 11
p0 398.3 ± 0.8146
450
400
350
300
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

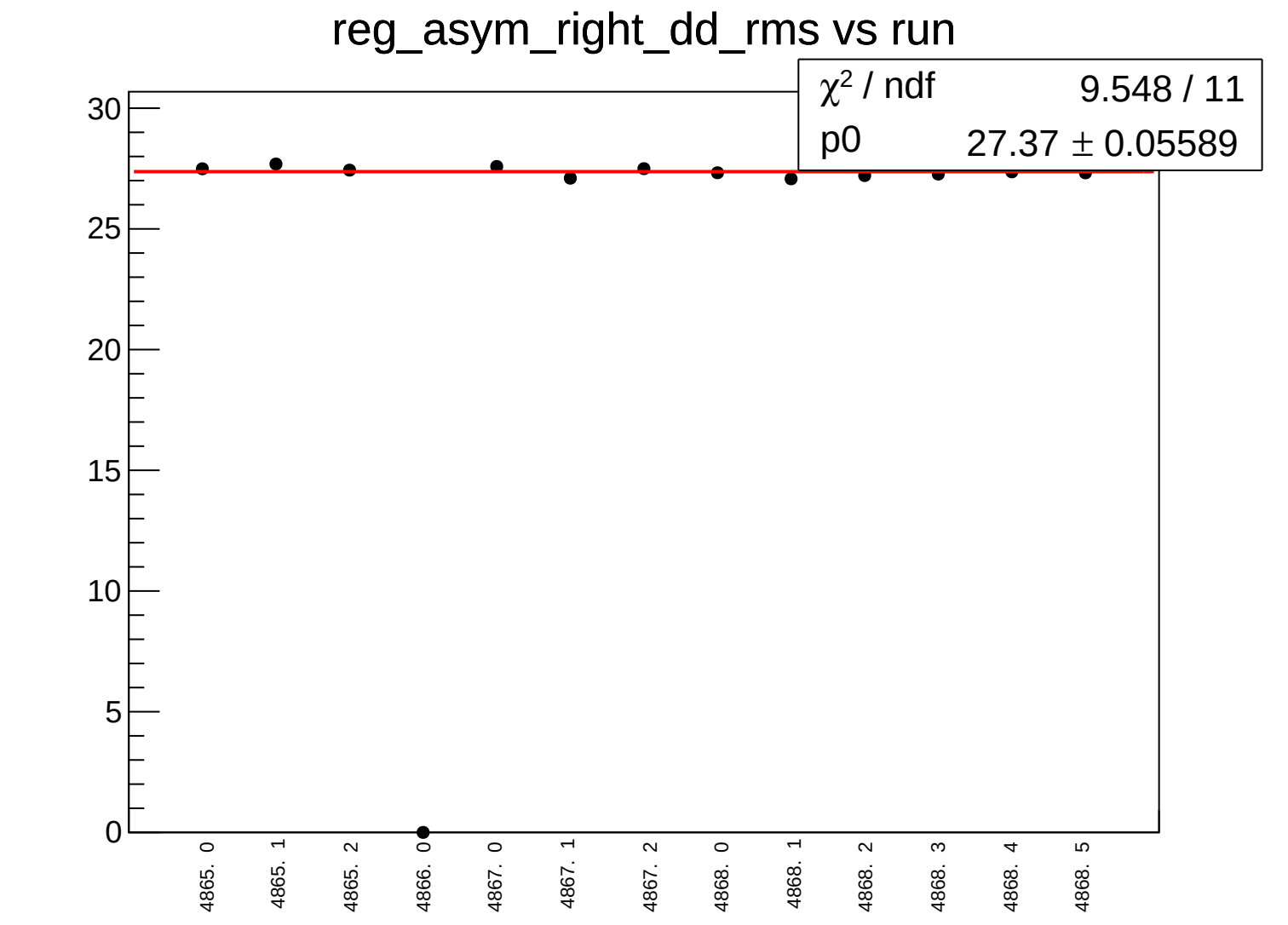

asym_right_avg_mean vs run
χ² / ndf 2.815 / 11
p0 10.69 ± 1213
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

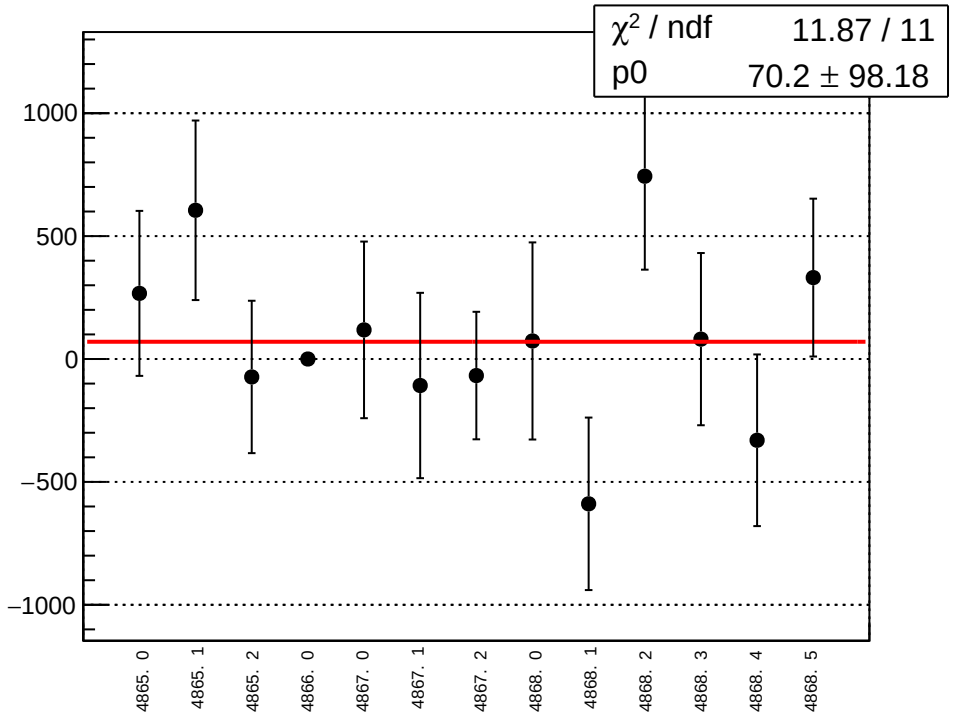

pull1D
Entries 13
Mean −0.009189
Std Dev 0.4843
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

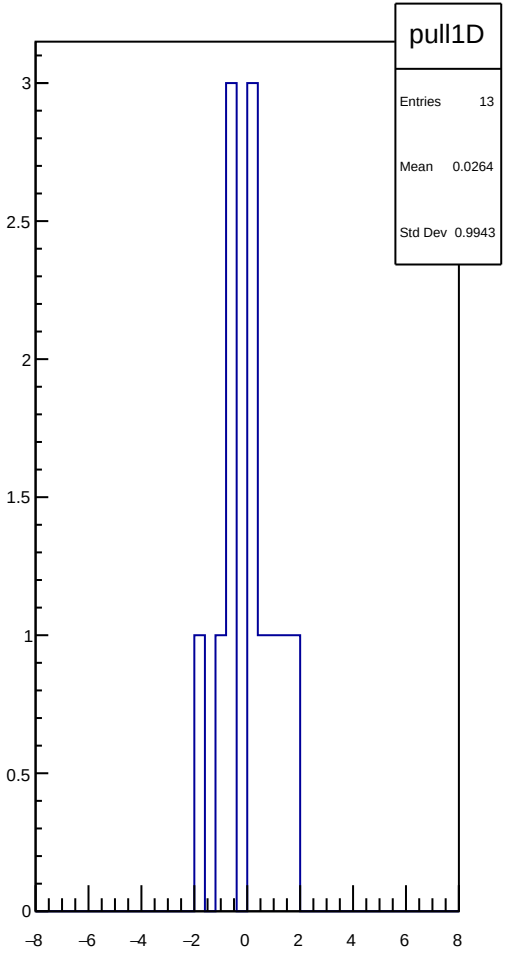

asym_right_avg_rms vs run
χ² / ndf 687.7 / 11
p0 419.4 ± 0.8577
500
400
300
200
100
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


reg_asym_right_dd_mean vs run
χ² / ndf 4.524 / 11
p0 93.74 ± 79.04
600
400
200
0
−200
−400
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.04195
Std Dev 0.6126
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_right_dd_rms vs run
χ² / ndf 9.548 / 11
p0 27.37 ± 0.05589
30
25
20
15
10
5
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_right_dd_correction_mean vs run
χ² / ndf 11.87 / 11
p0 70.2 ± 98.18
1000
500
0
−500
−1000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.0264
Std Dev 0.9943
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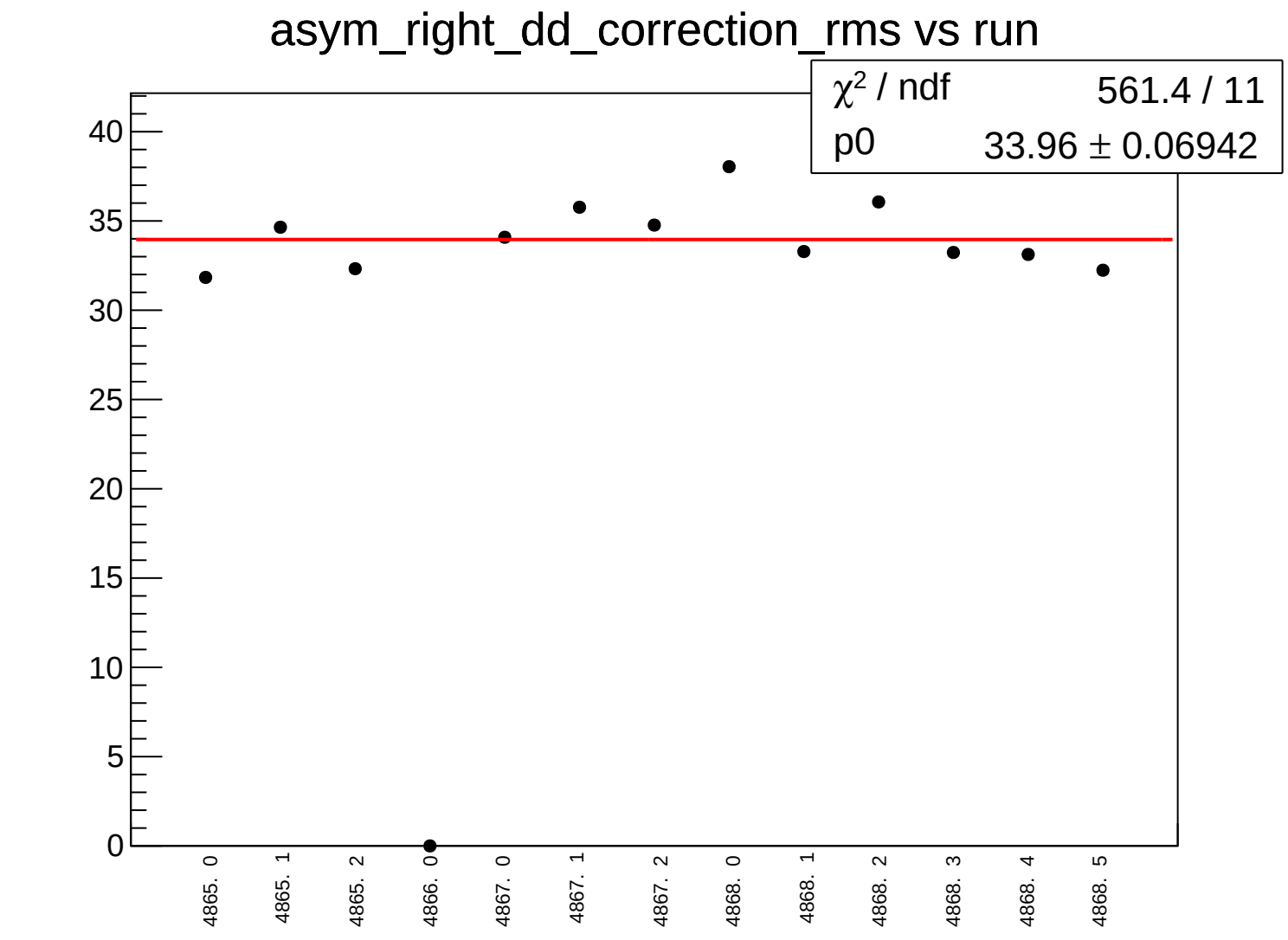
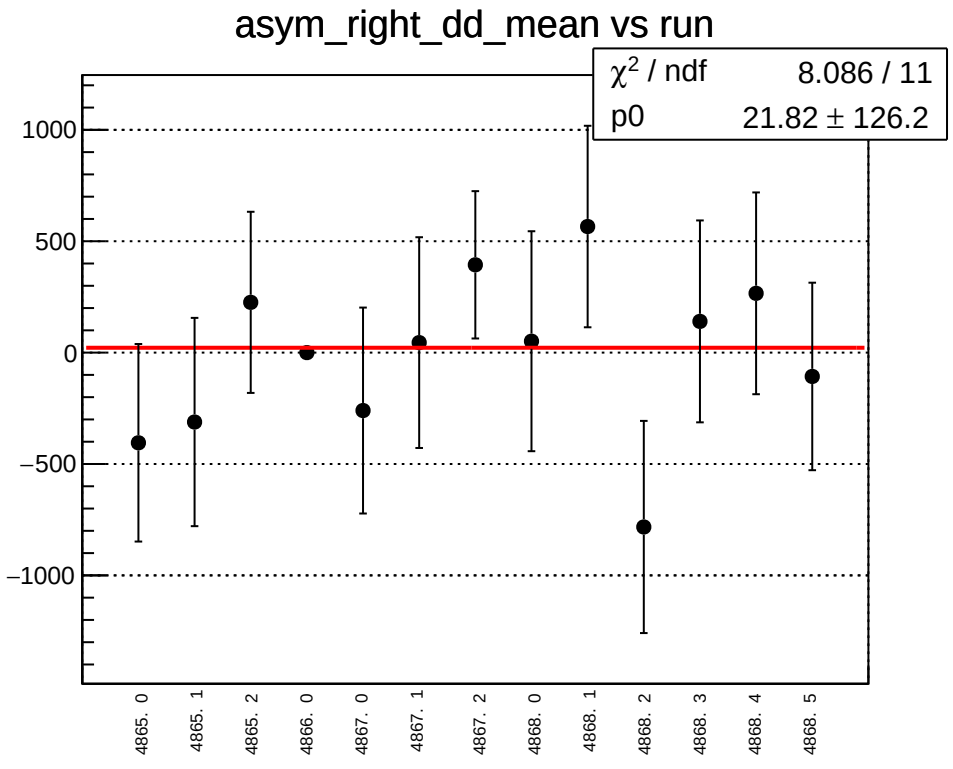
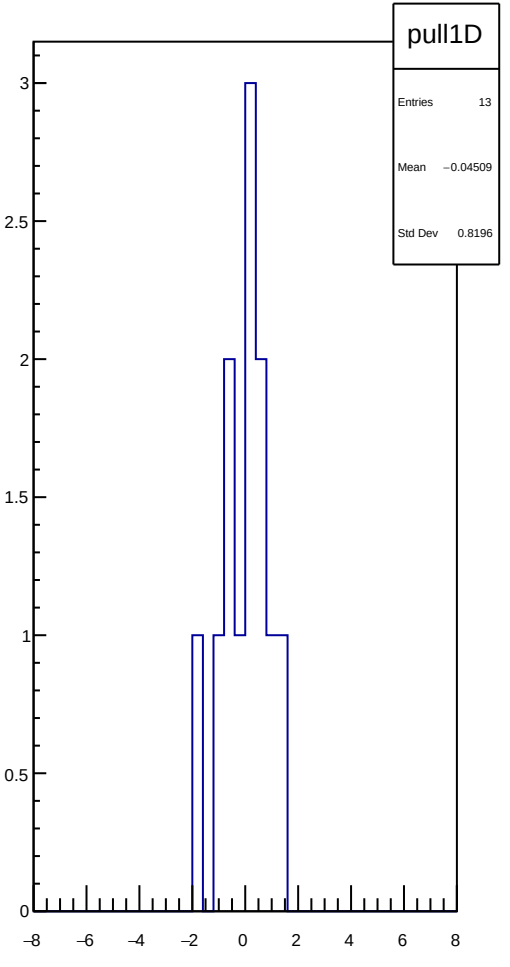
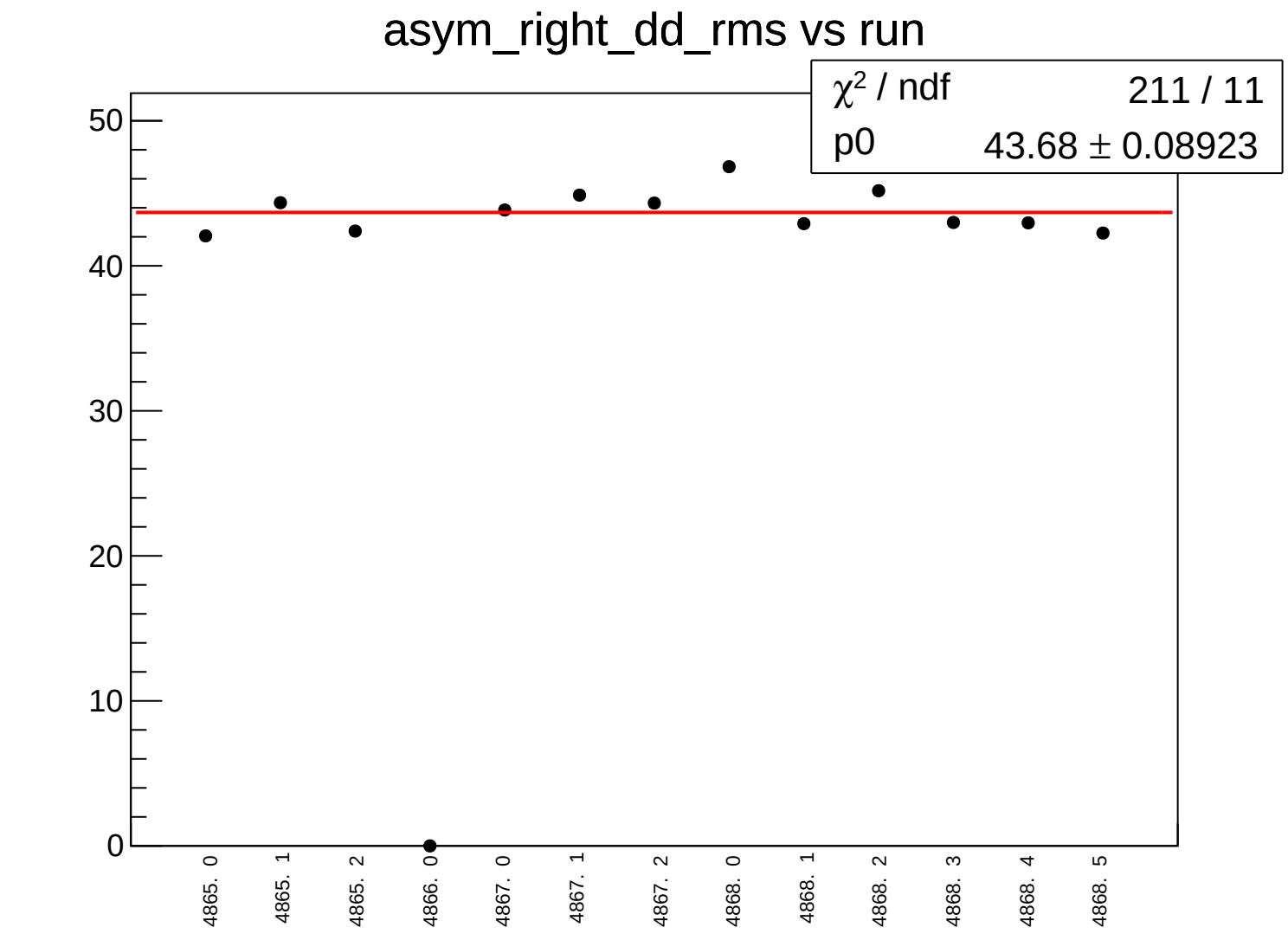
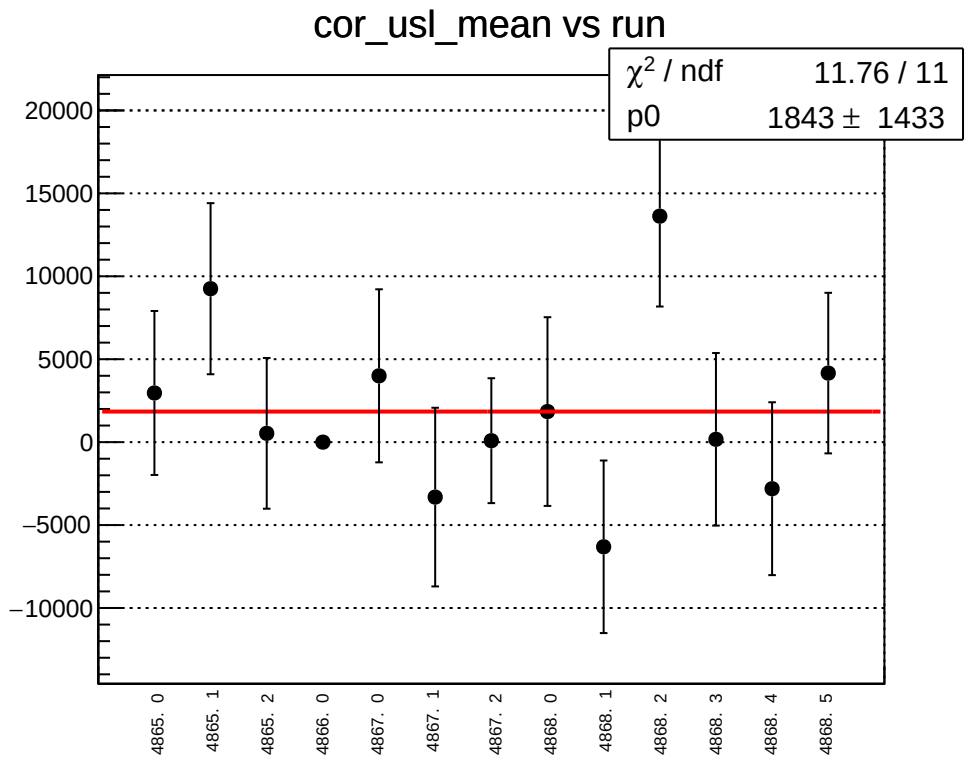
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

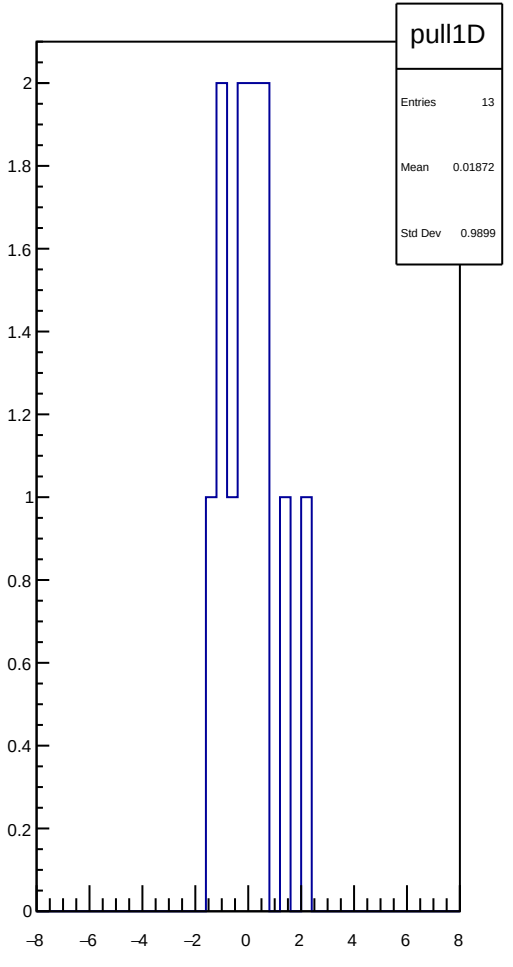

asym_right_dd_correction_rms vs run
χ² / ndf 561.4 / 11
p0 33.96 ± 0.06942
40
35
30
25
20
15
10
5
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

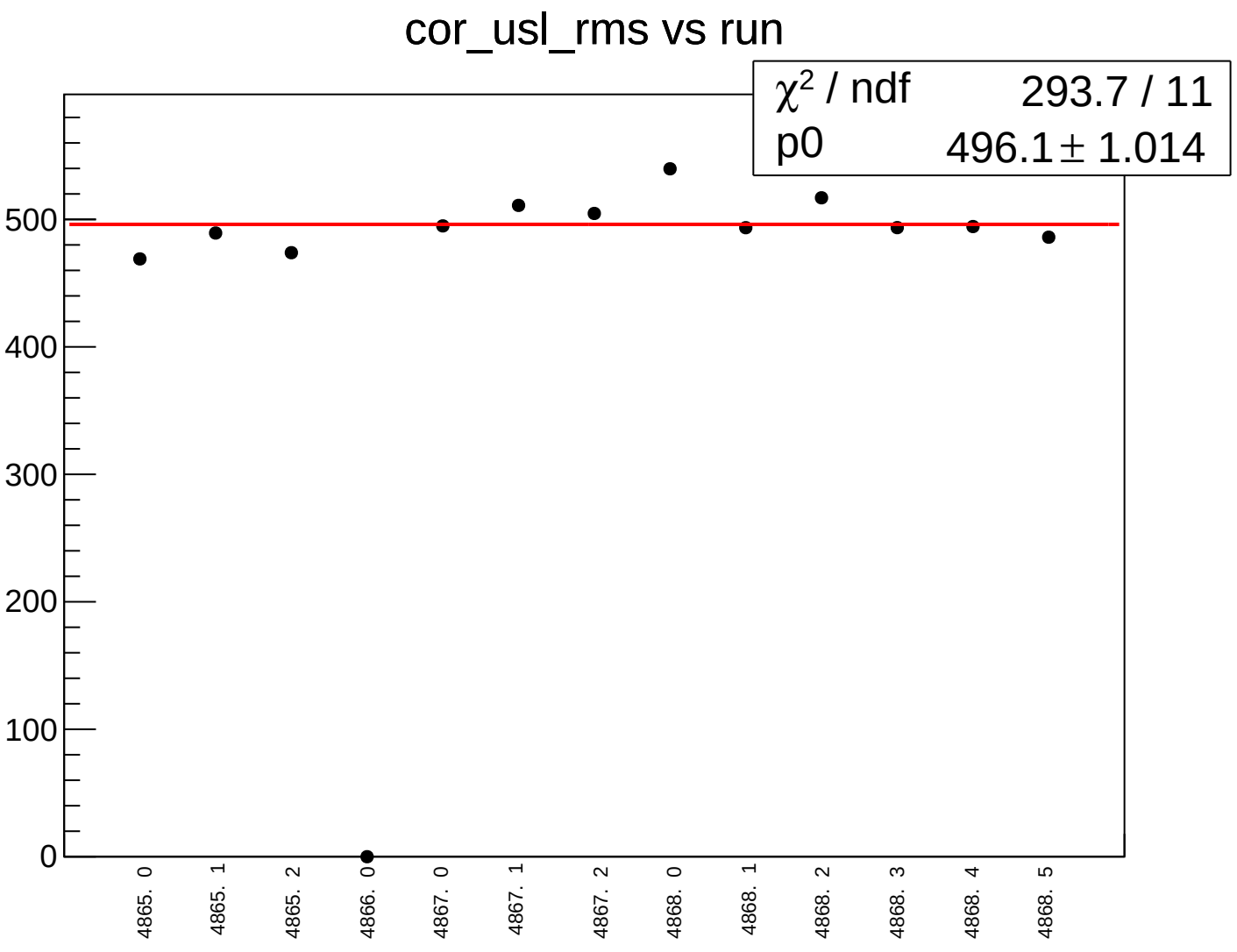

asym_right_dd_mean vs run
χ² / ndf 8.086 / 11
p0 21.82 ± 126.2
1000
500
0
−500
−1000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

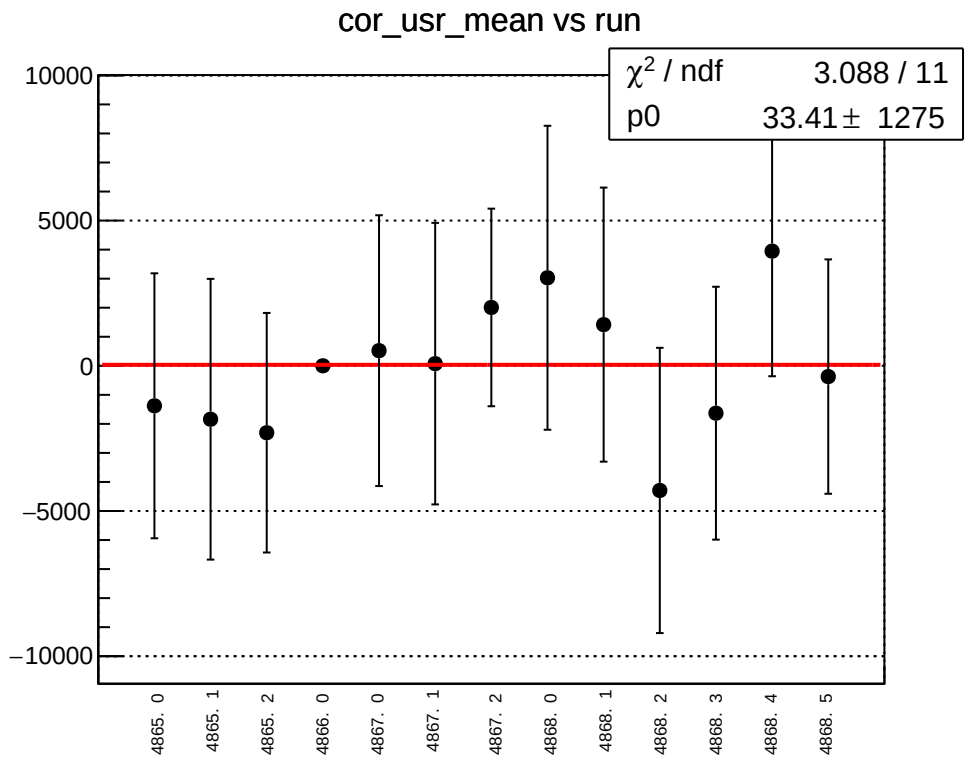

pull1D
Entries 13
Mean −0.04509
Std Dev 0.8196
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

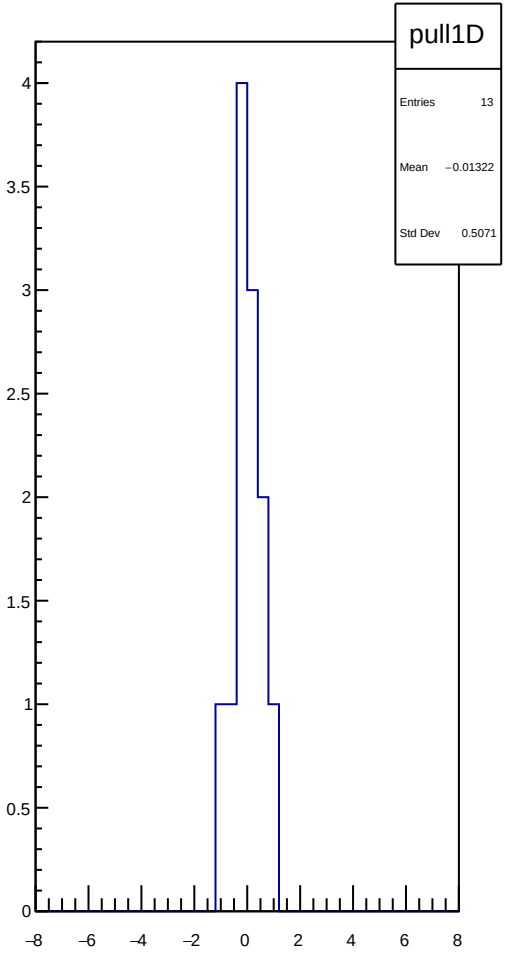

asym_right_dd_rms vs run
χ² / ndf 211 / 11
p0 43.68 ± 0.08923
50
40
30
20
10
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

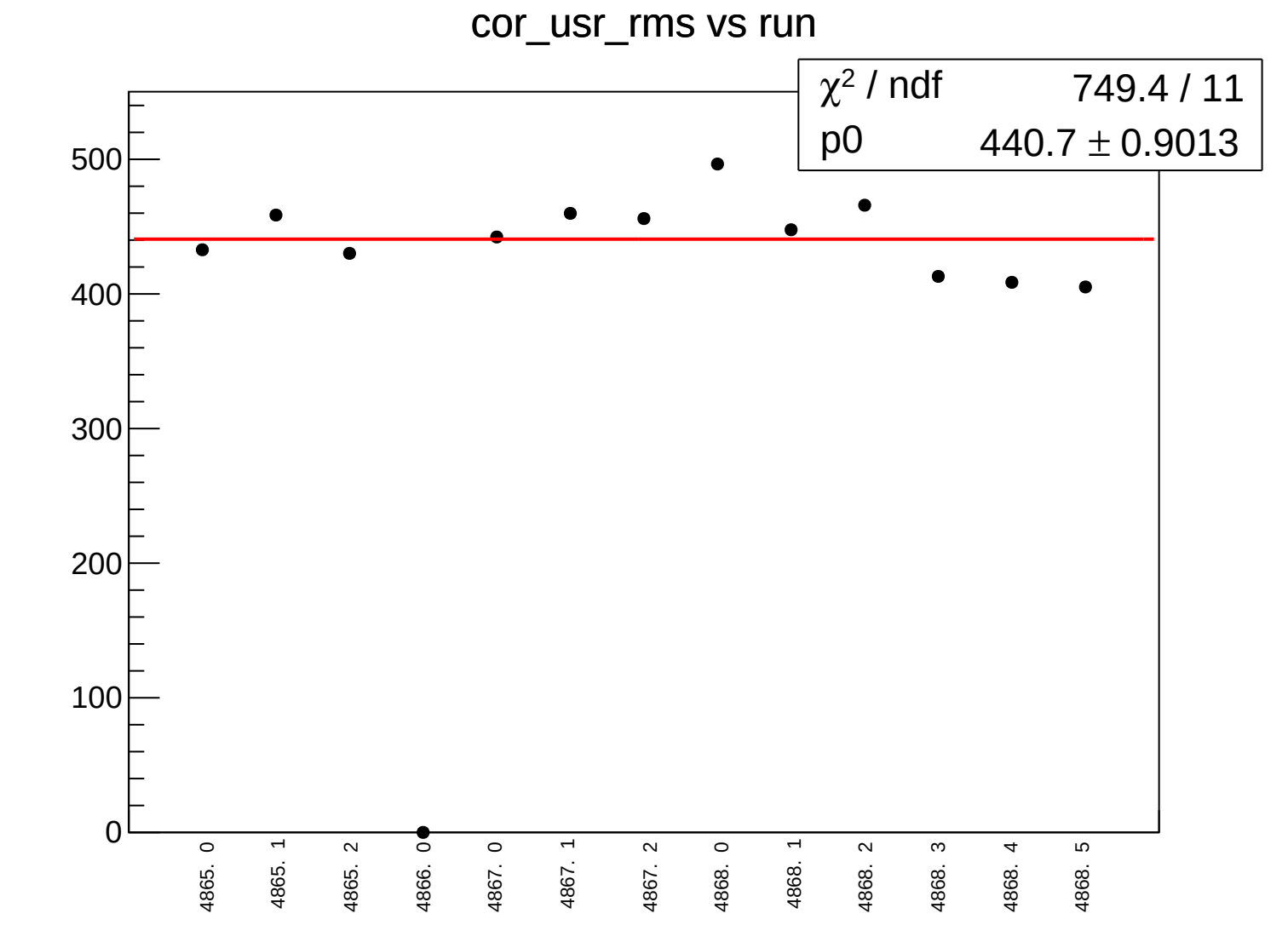

cor_usl_mean vs run
χ² / ndf 11.76 / 11
p0 1843 ± 1433
20000
15000
10000
5000
0
−5000
−10000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

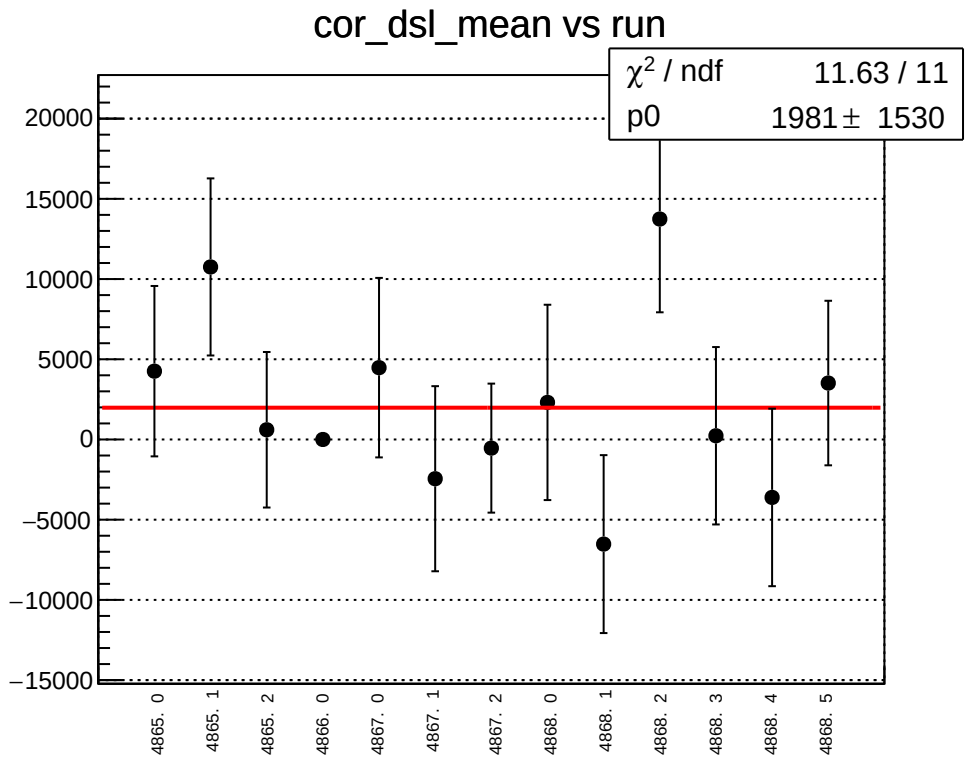

pull1D
Entries 13
Mean 0.01872
Std Dev 0.9899
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

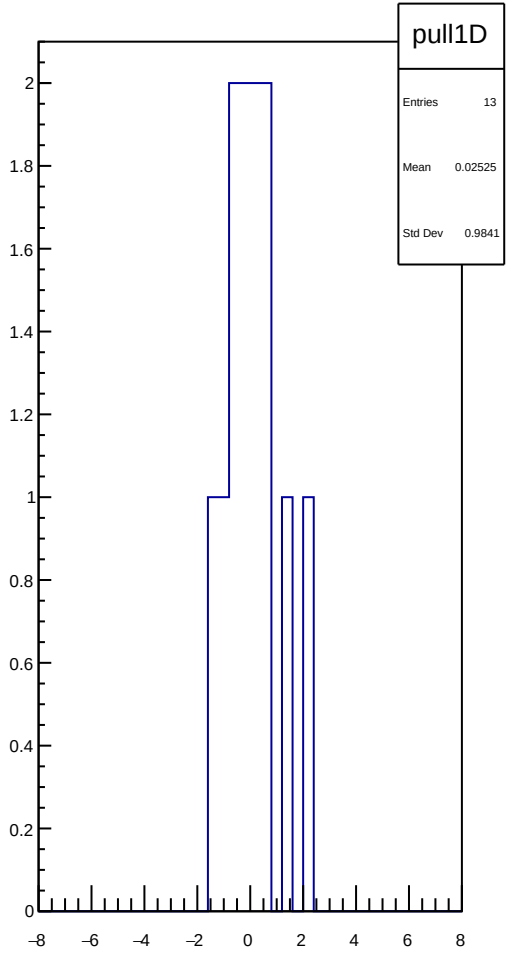

cor_usl_rms vs run
χ² / ndf 293.7 / 11
p0 496.1 ± 1.014
500
400
300
200
100
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

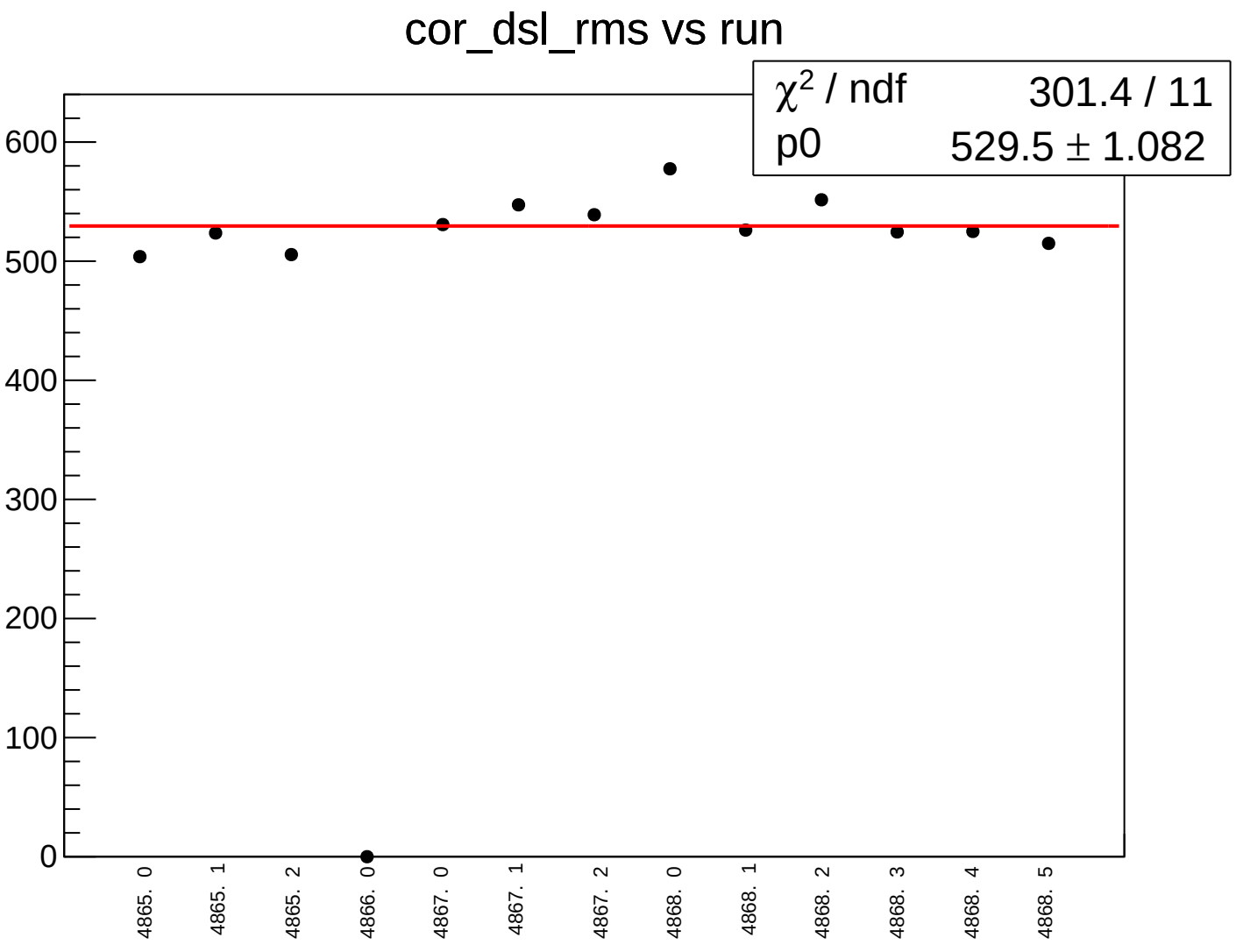

cor_usr_mean vs run
χ² / ndf 3.088 / 11
p0 33.41 ± 1275
10000
5000
0
−5000
−10000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

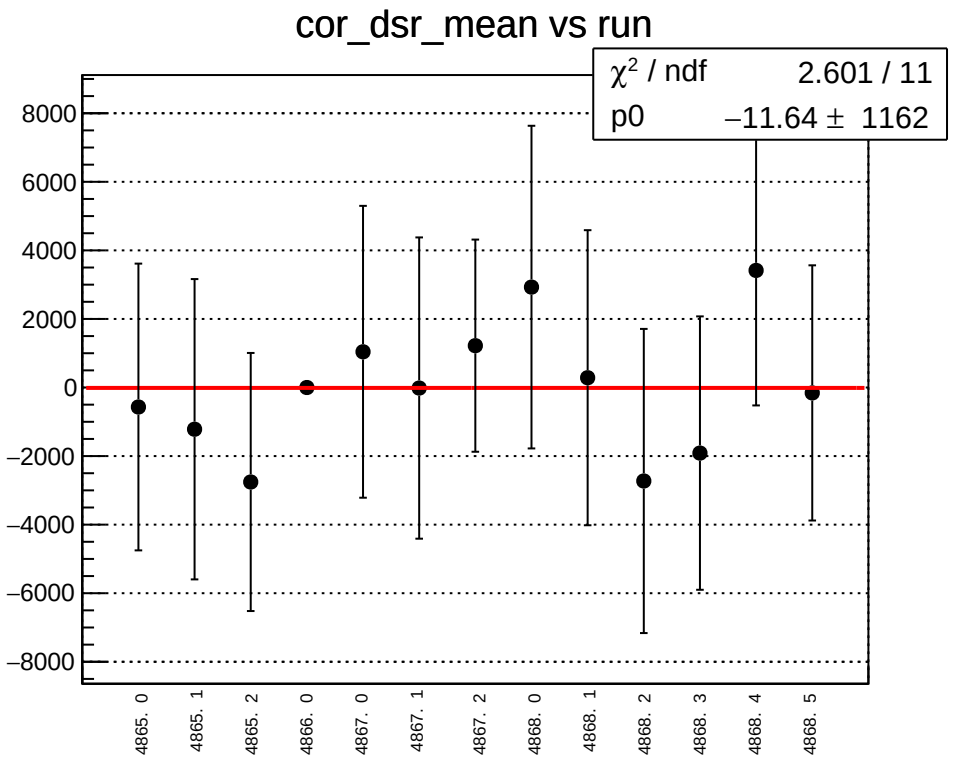

pull1D
Entries 13
Mean −0.01322
Std Dev 0.5071
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


cor_usr_rms vs run
χ² / ndf 749.4 / 11
p0 440.7 ± 0.9013
500
400
300
200
100
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


cor_dsl_mean vs run
χ² / ndf 11.63 / 11
p0 1981 ± 1530
20000
15000
10000
5000
0
−5000
−10000
−15000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.02525
Std Dev 0.9841
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


cor_dsl_rms vs run
χ² / ndf 301.4 / 11
p0 529.5 ± 1.082
600
500
400
300
200
100
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


cor_dsr_mean vs run
χ² / ndf 2.601 / 11
p0 −11.64 ± 1162
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
4865. 0
4865. 1
4865. 2
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4867. 2
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4868. 2
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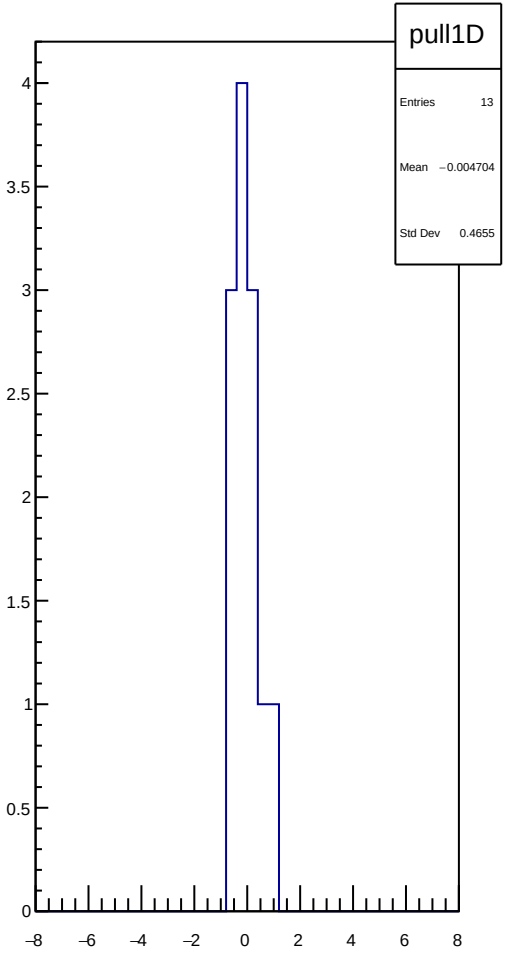
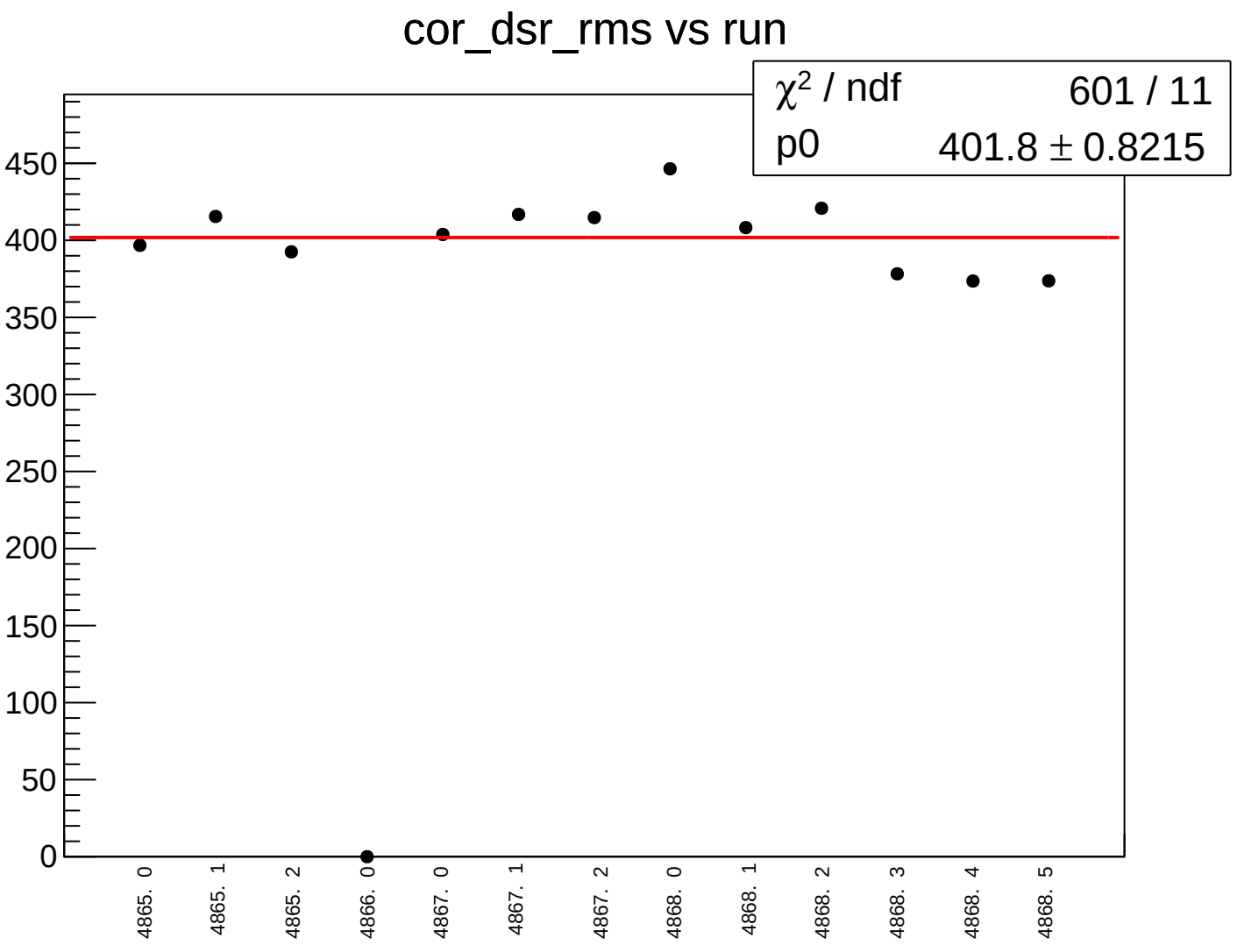
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.004704
Std Dev 0.4655
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


cor_dsr_rms vs run
χ² / ndf 601 / 11
p0 401.8 ± 0.8215
450
400
350
300
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
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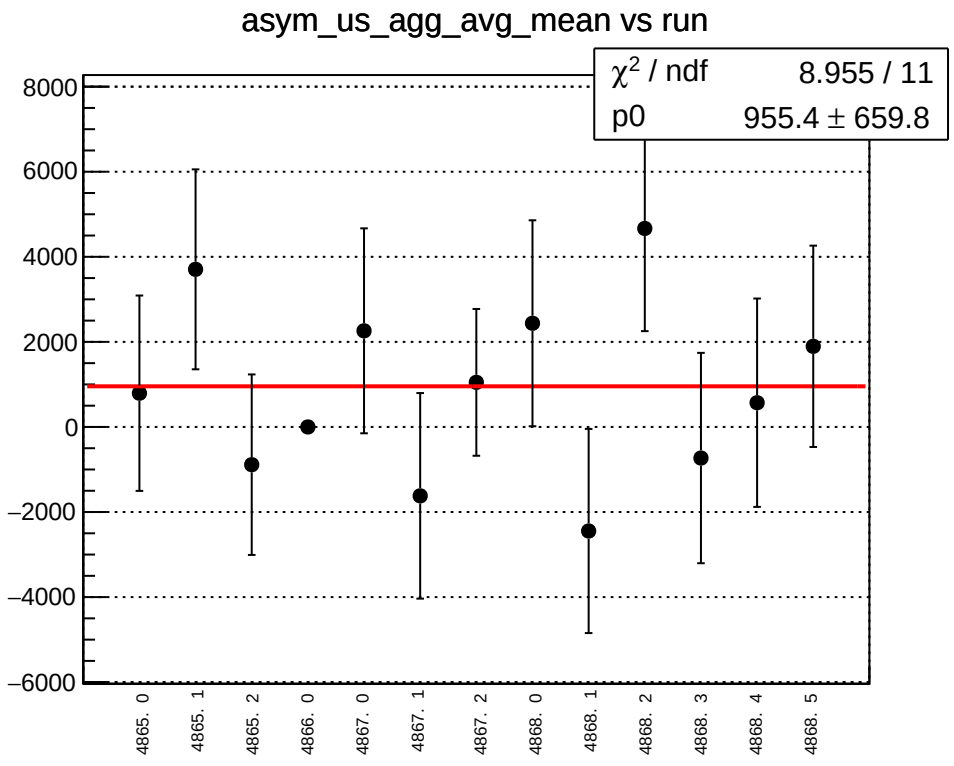
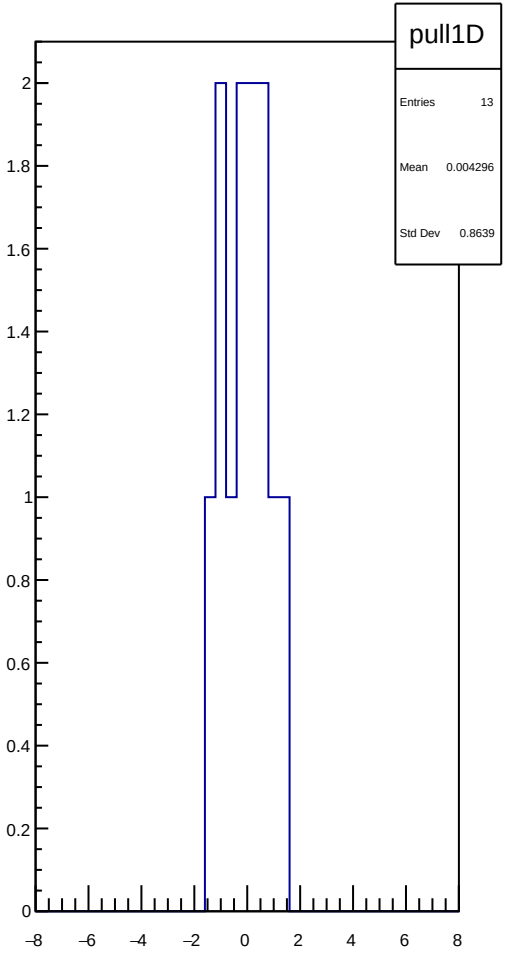
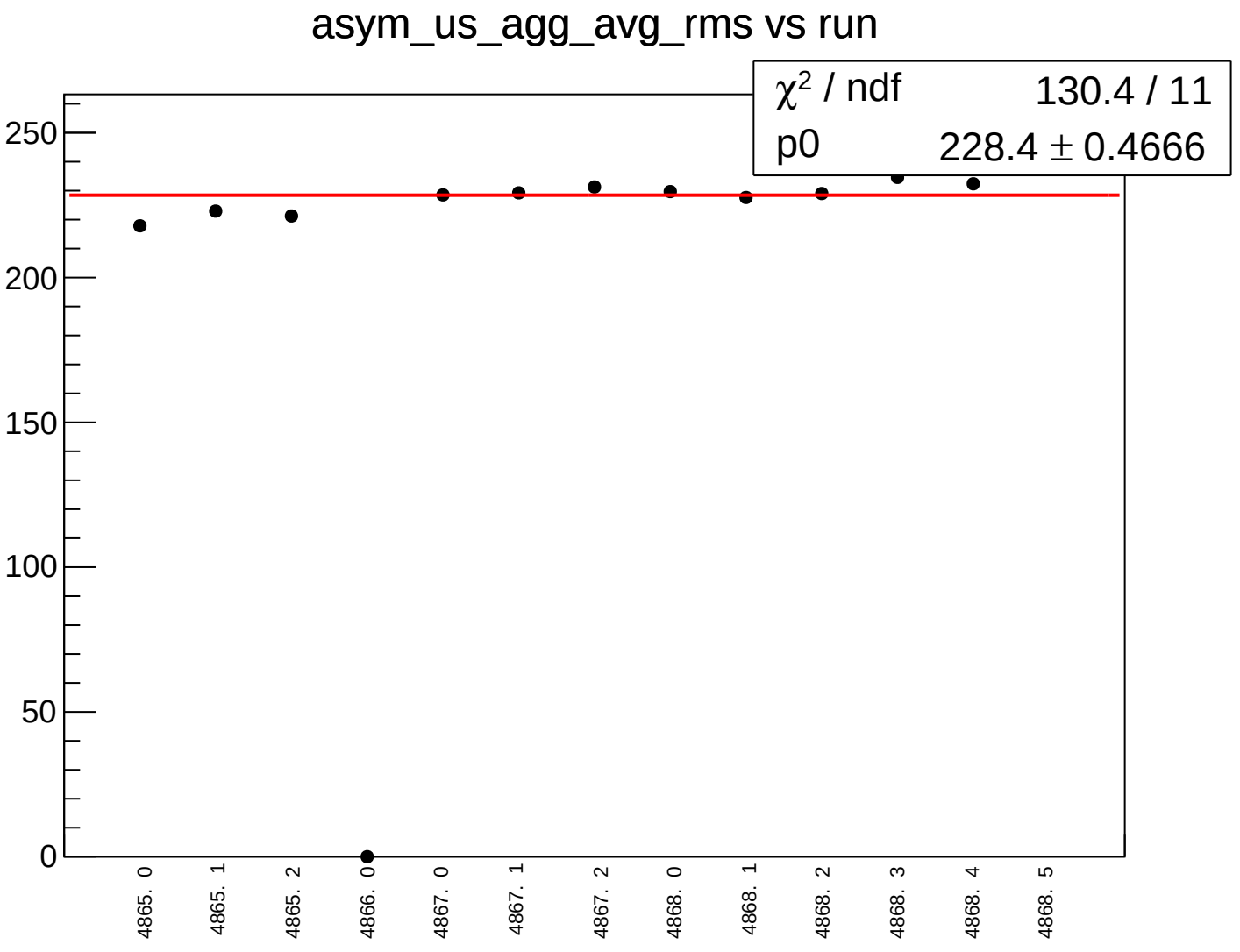
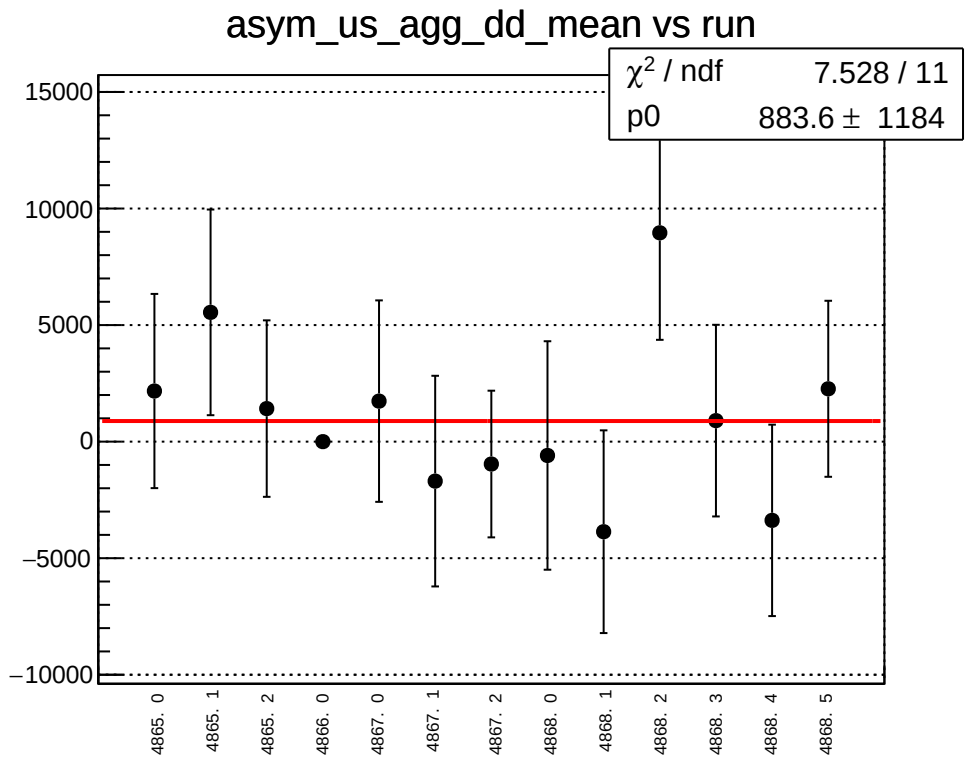
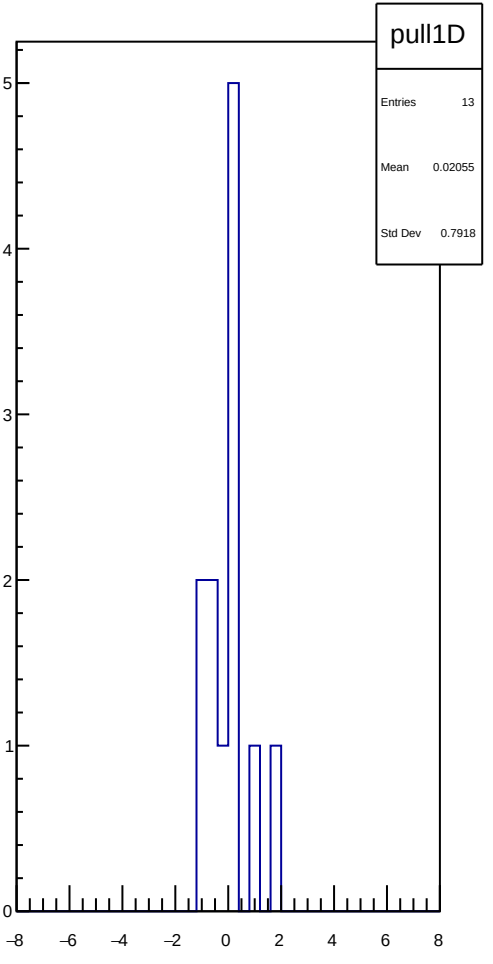
4868. 4
4868. 5

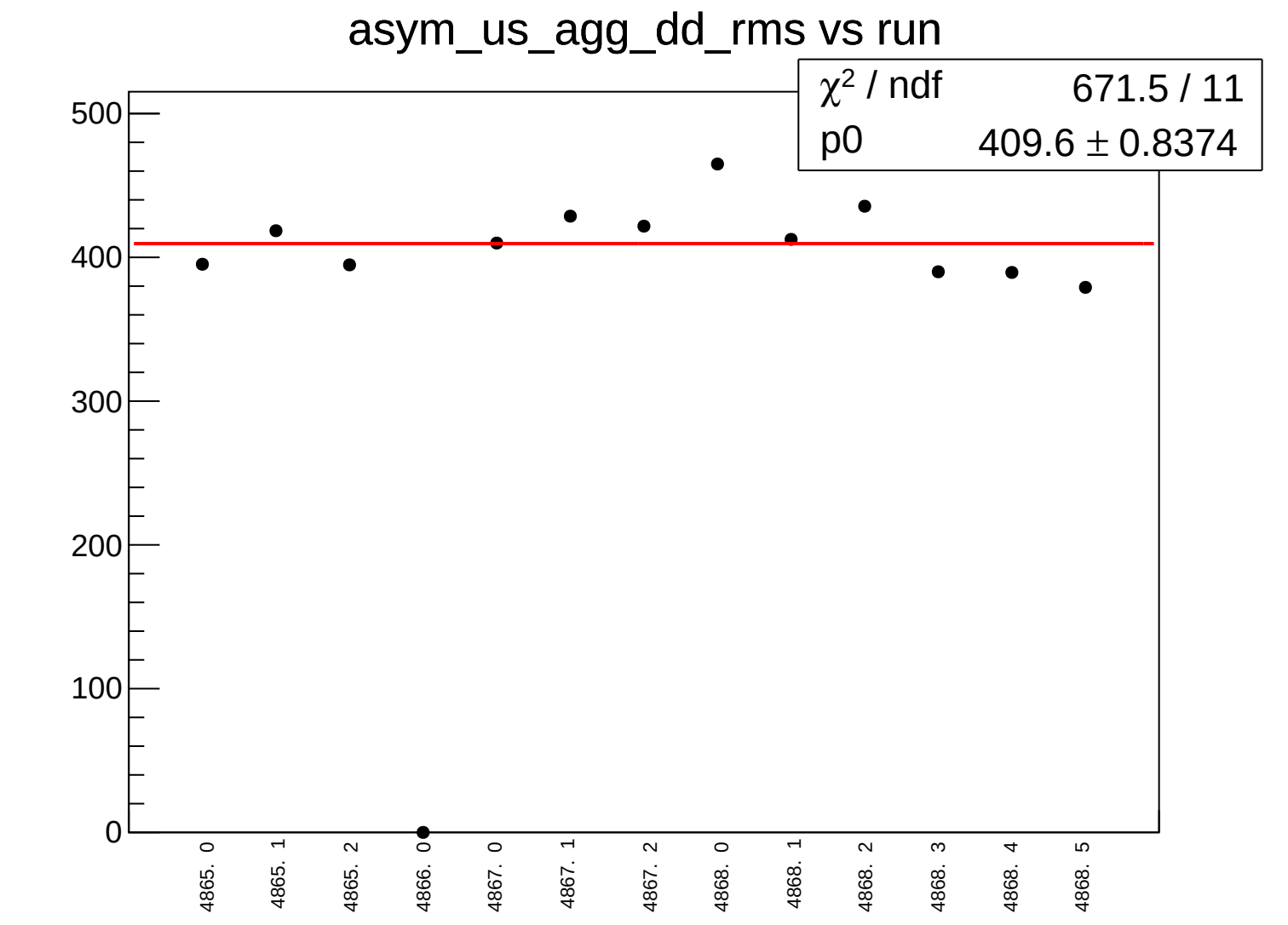

asym_us_agg_avg_mean vs run
χ² / ndf 8.955 / 11
p0 955.4 ± 659.8
8000
6000
4000
2000
0
−2000
−4000
−6000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.004296
Std Dev 0.8639
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_agg_avg_rms vs run
χ² / ndf 130.4 / 11
p0 228.4 ± 0.4666
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_us_agg_dd_mean vs run
χ² / ndf 7.528 / 11
p0 883.6 ± 1184
15000
10000
5000
0
−5000
−10000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.02055
Std Dev 0.7918
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_agg_dd_rms vs run
χ² / ndf 671.5 / 11
p0 409.6 ± 0.8374
500
400
300
200
100
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
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4867. 2
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4868. 2
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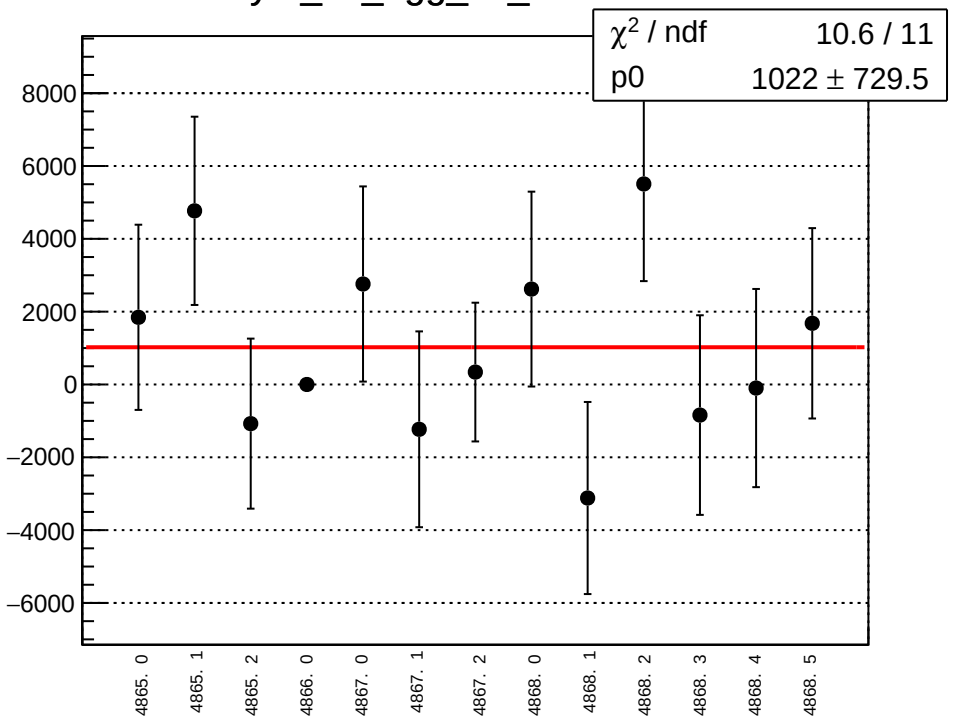
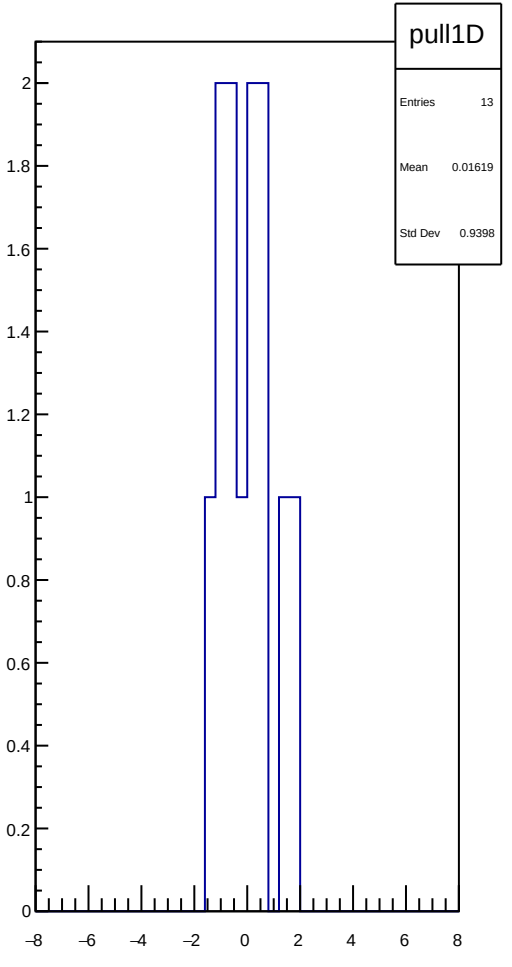
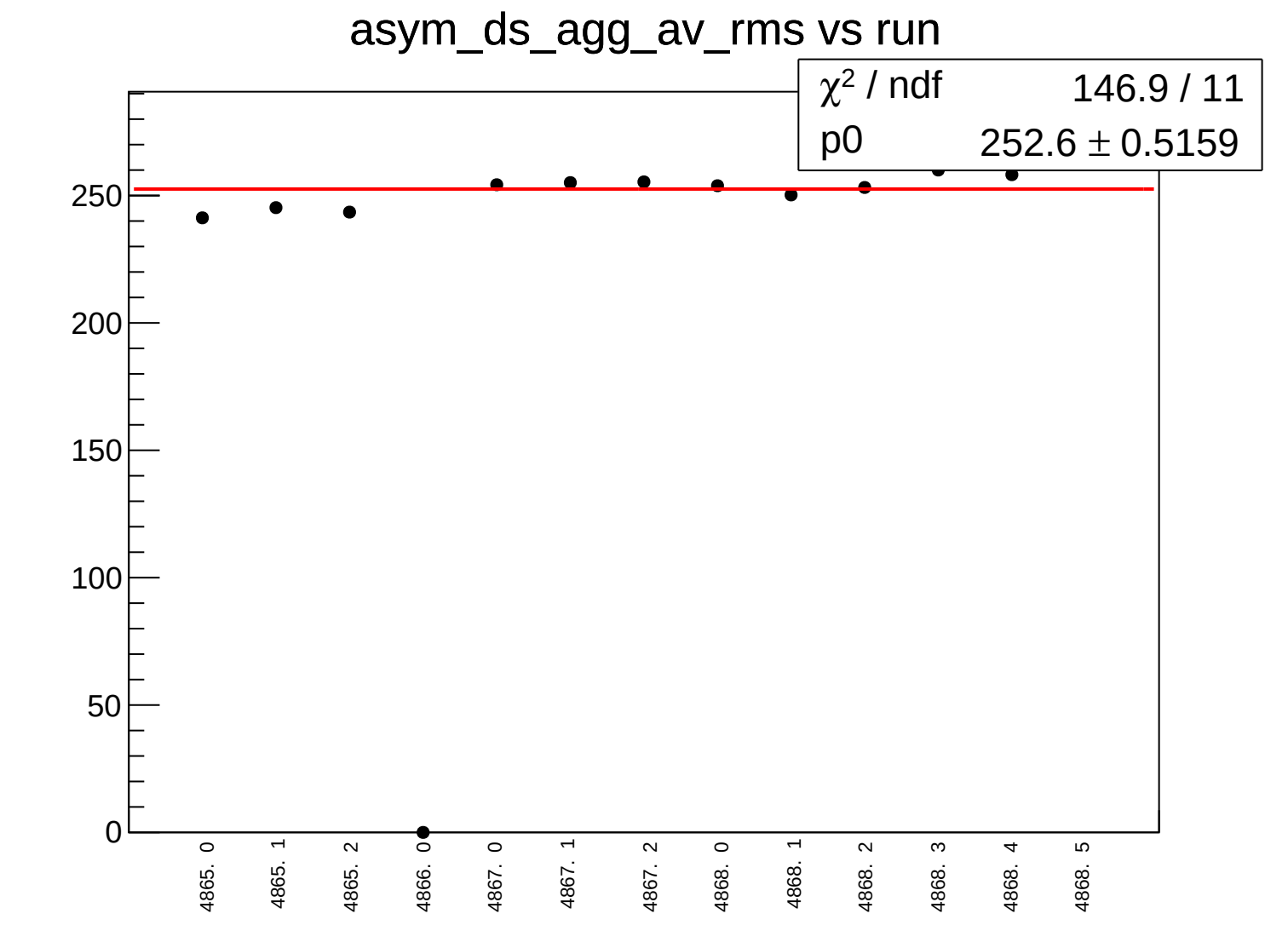
4868. 4
4868. 5


asym_ds_agg_av_mean vs run
χ² / ndf 10.6 / 11
p0 1022 ± 729.5
8000
6000
4000
2000
0
−2000
−4000
−6000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.01619
Std Dev 0.9398
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


asym_ds_agg_av_rms vs run
χ² / ndf 146.9 / 11
p0 252.6 ± 0.5159
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
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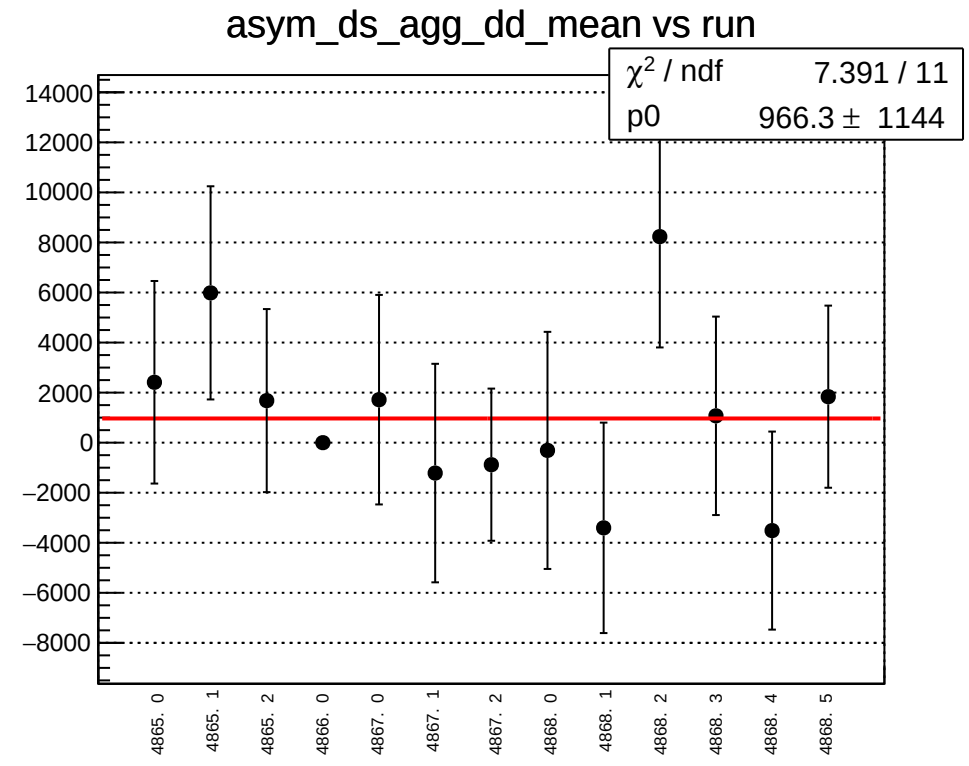
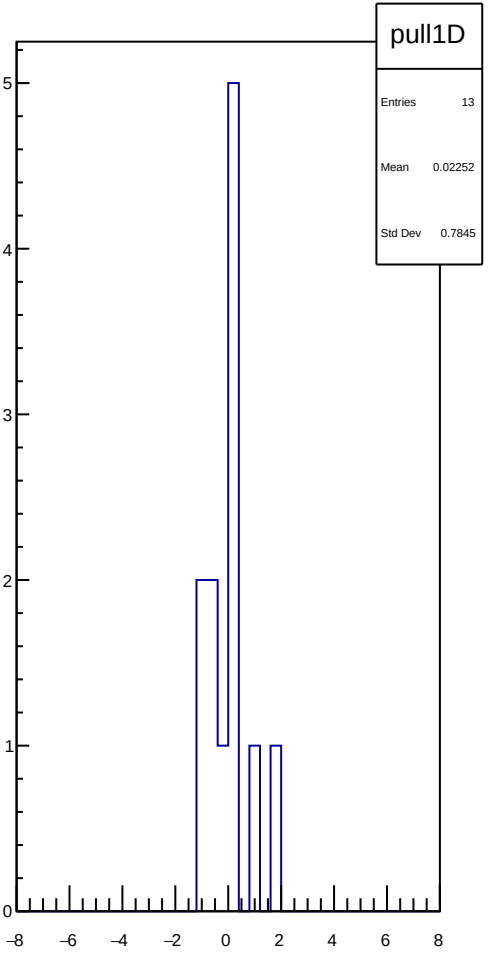
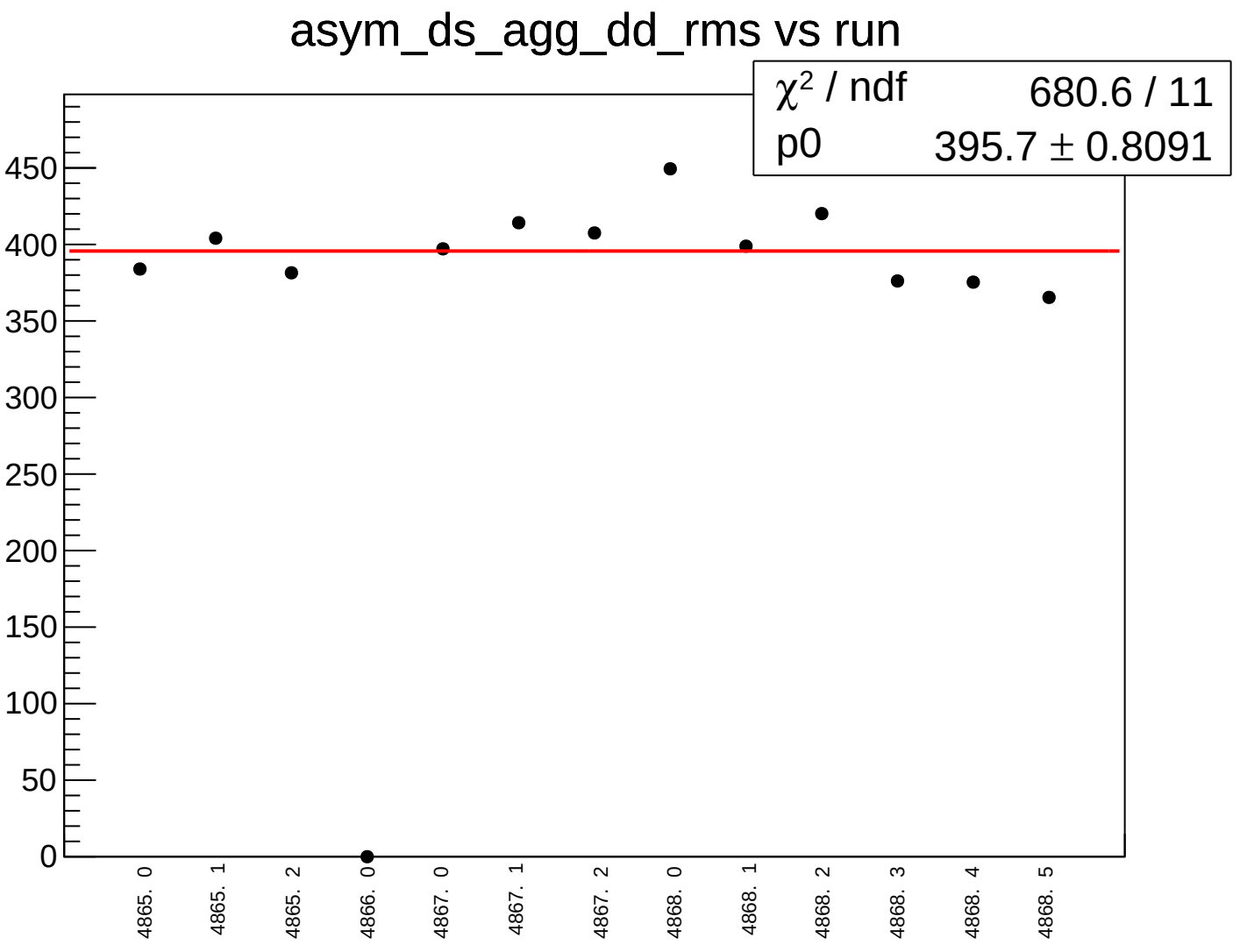
4868. 4
4868. 5


asym_ds_agg_dd_mean vs run
χ² / ndf 7.391 / 11
p0 966.3 ± 1144
14000
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.02252
Std Dev 0.7845
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_ds_agg_dd_rms vs run
χ² / ndf 680.6 / 11
p0 395.7 ± 0.8091
450
400
350
300
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
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4867. 1
4867. 2
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4868. 2
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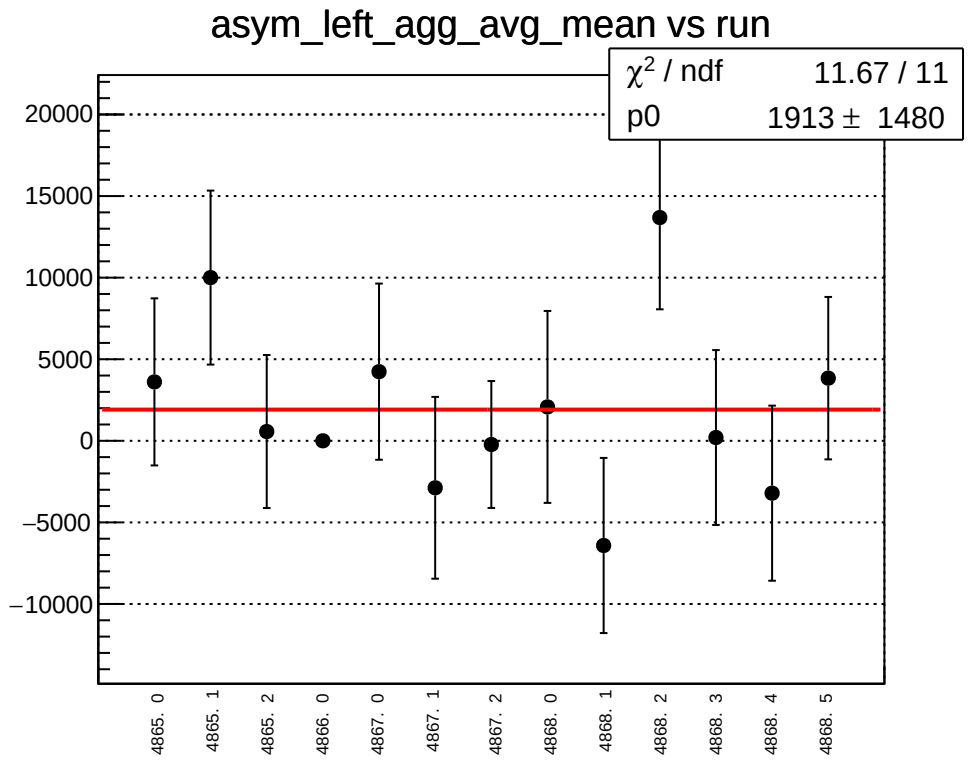
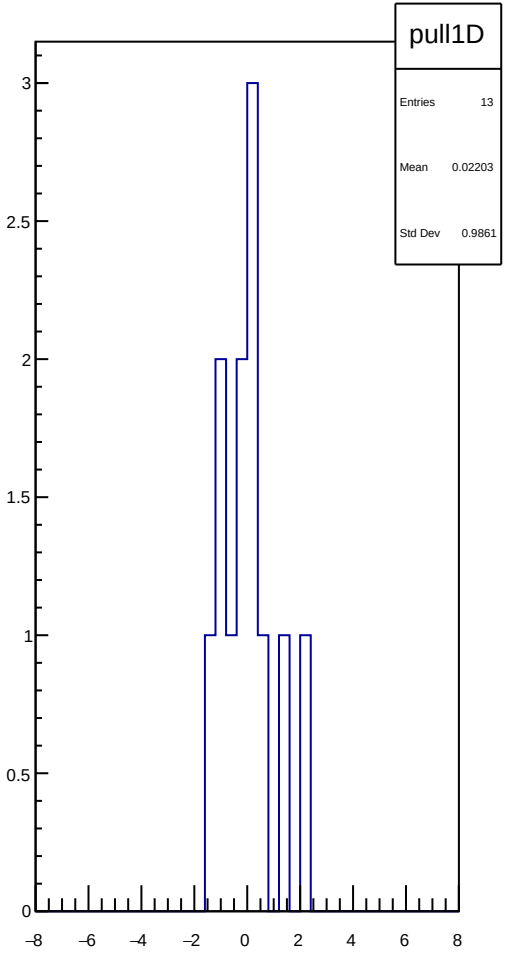
4868. 4
4868. 5


asym_left_agg_avg_mean vs run
χ² / ndf 11.67 / 11
p0 1913 ± 1480
20000
15000
10000
5000
0
−5000
−10000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.02203
Std Dev 0.9861
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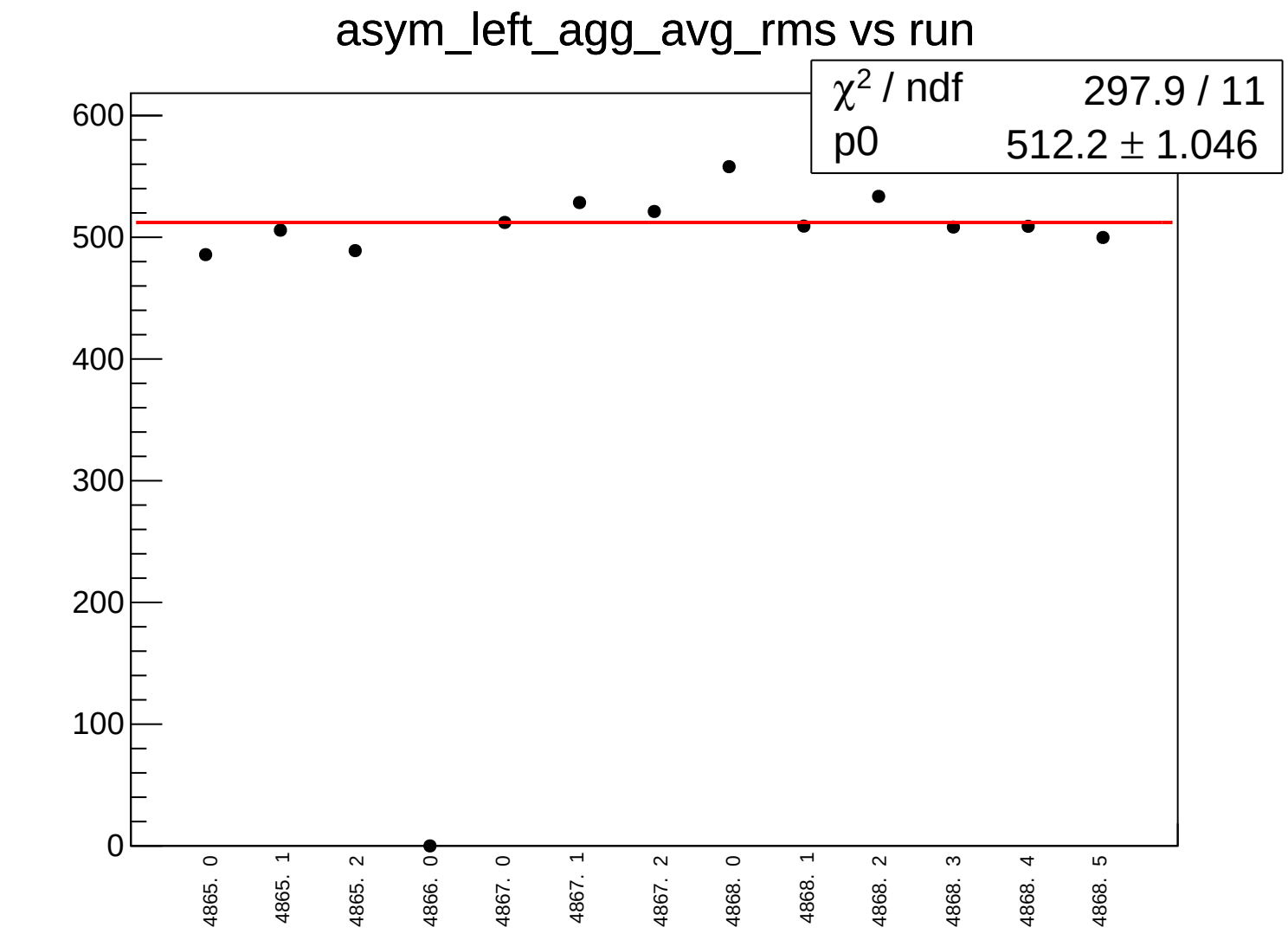
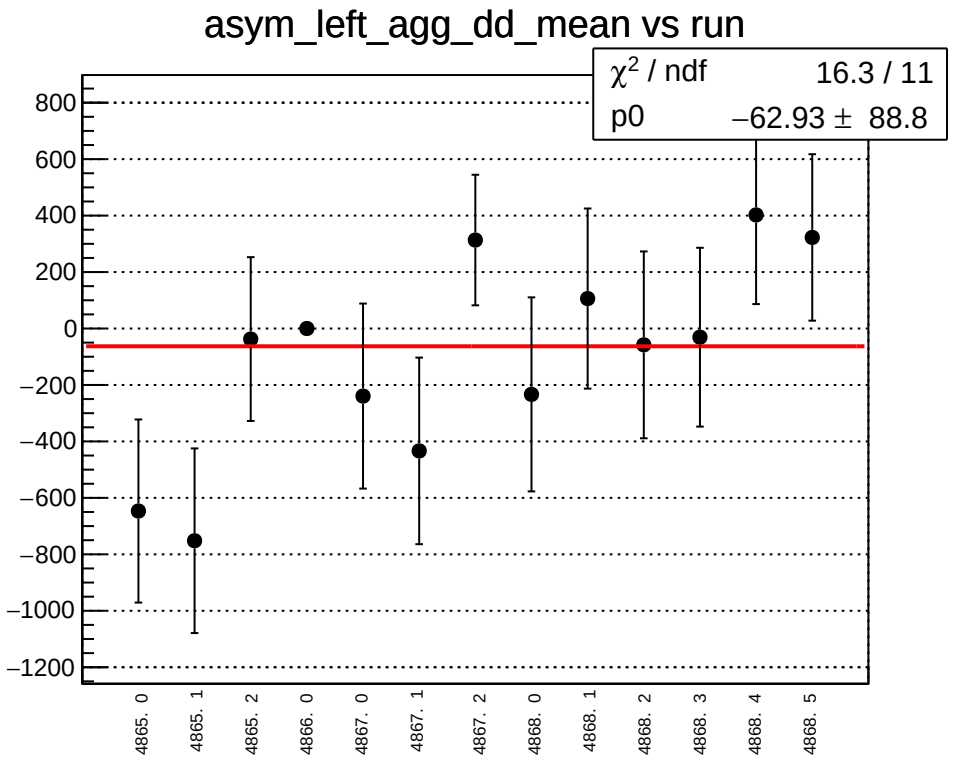
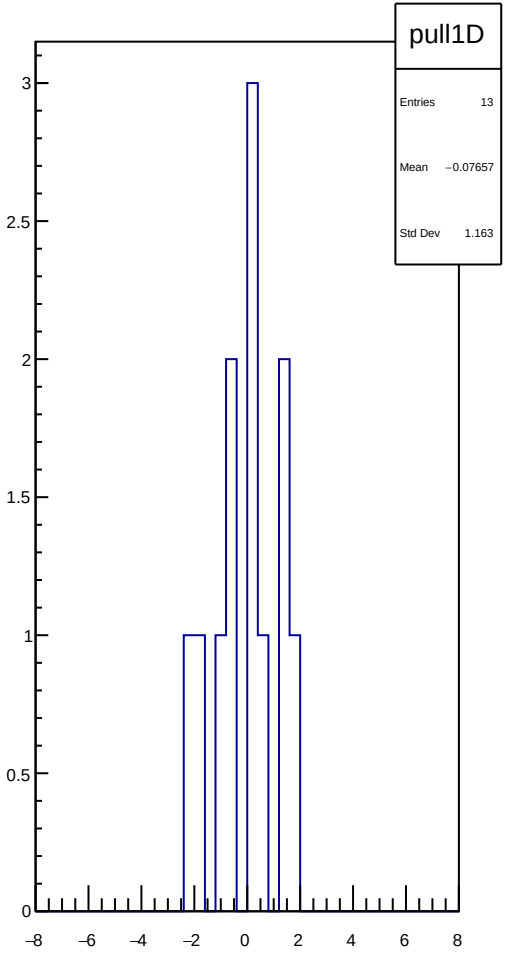
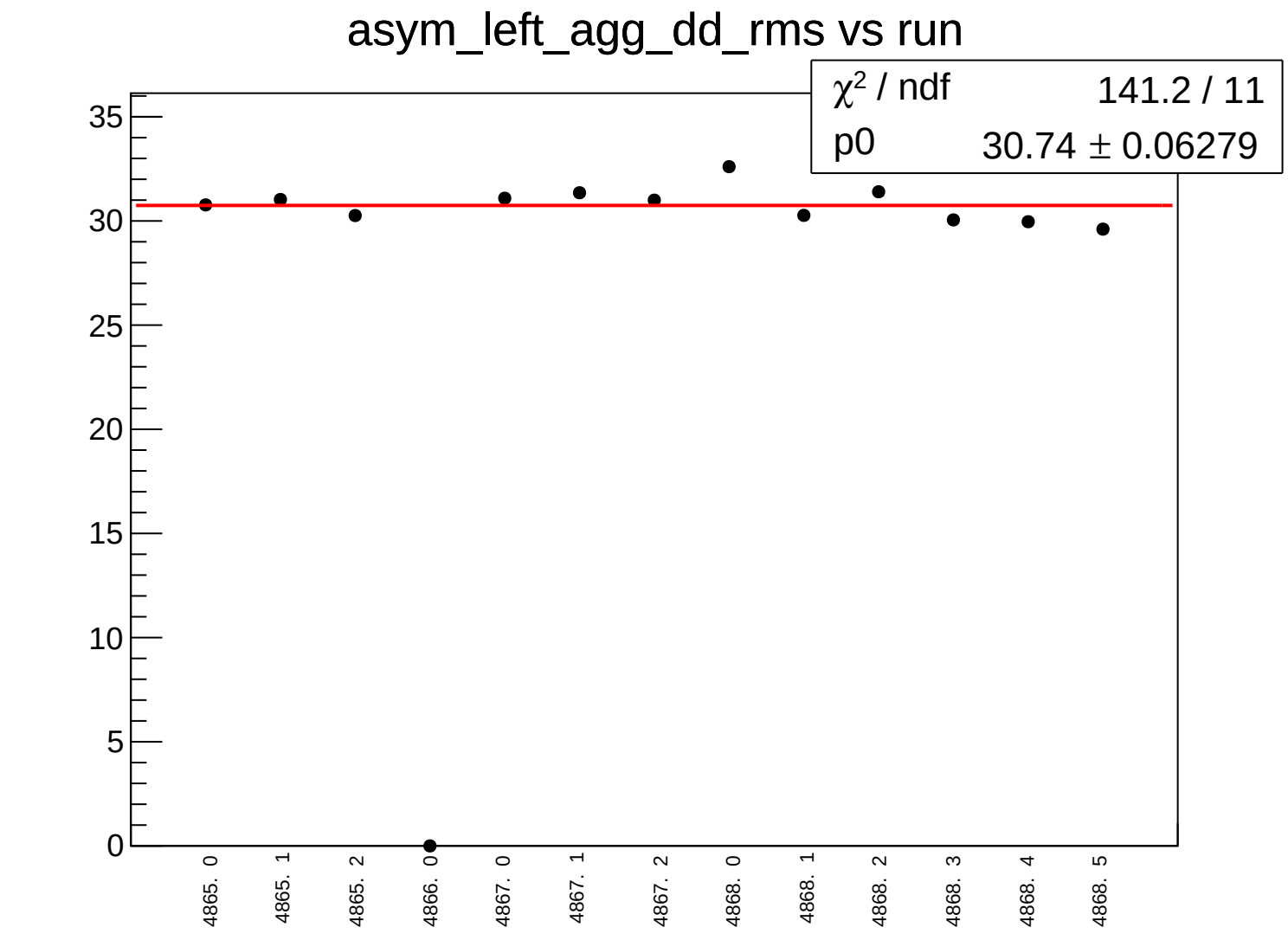
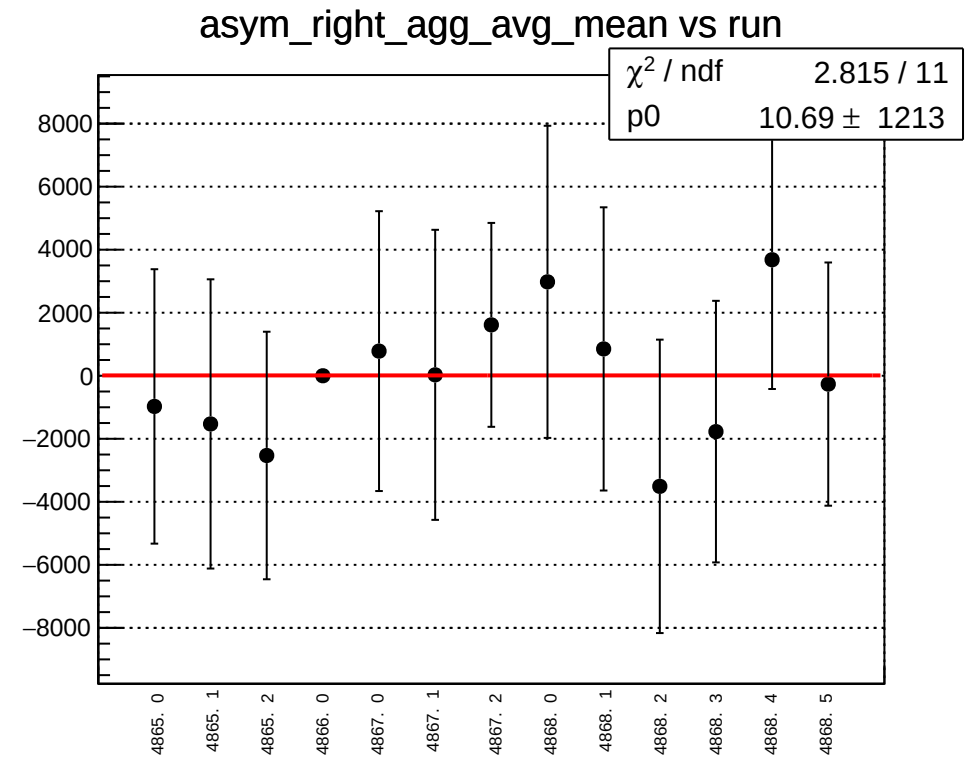
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

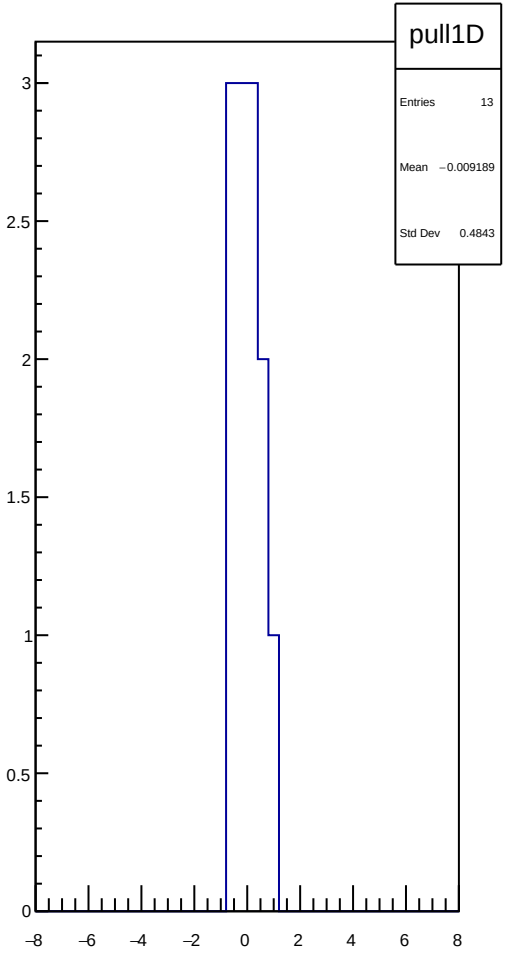

asym_left_agg_avg_rms vs run
χ² / ndf 297.9 / 11
p0 512.2 ± 1.046
600
500
400
300
200
100
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

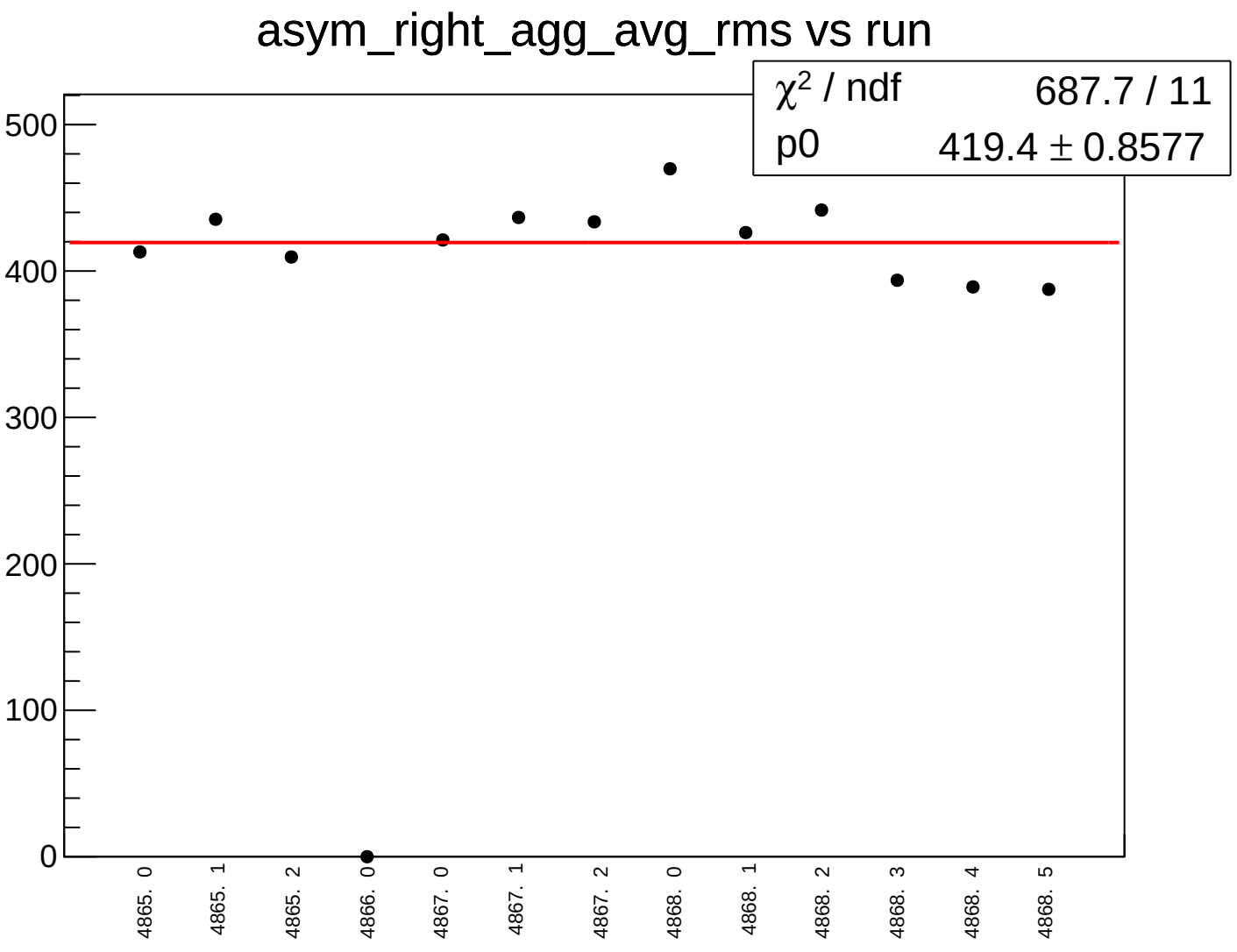

asym_left_agg_dd_mean vs run
χ² / ndf 16.3 / 11
p0 −62.93 ± 88.8
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

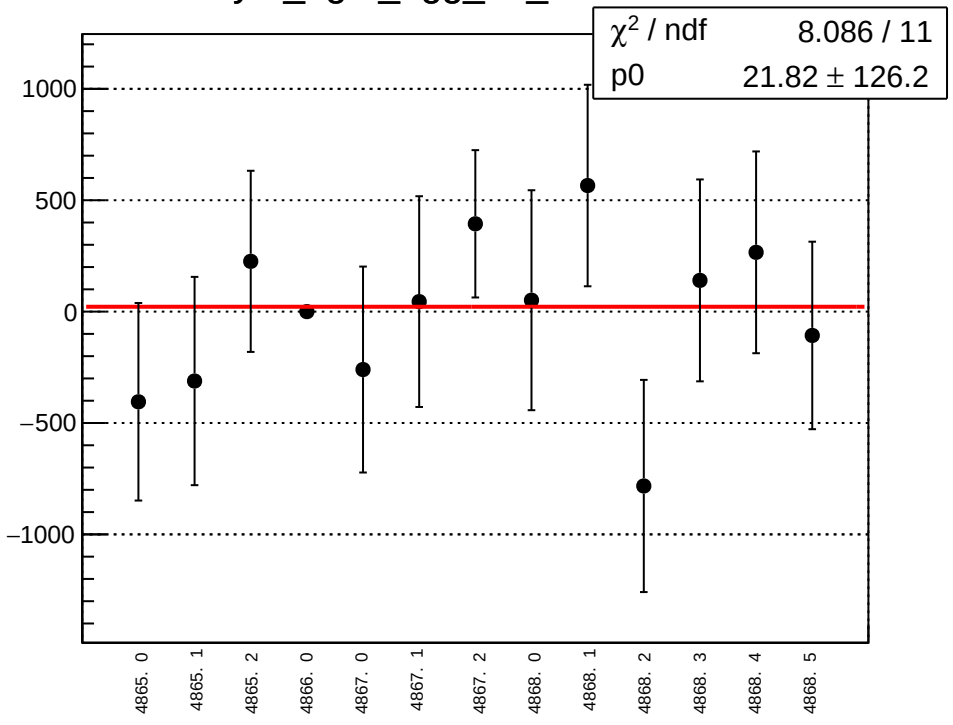

pull1D
Entries 13
Mean −0.07657
Std Dev 1.163
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

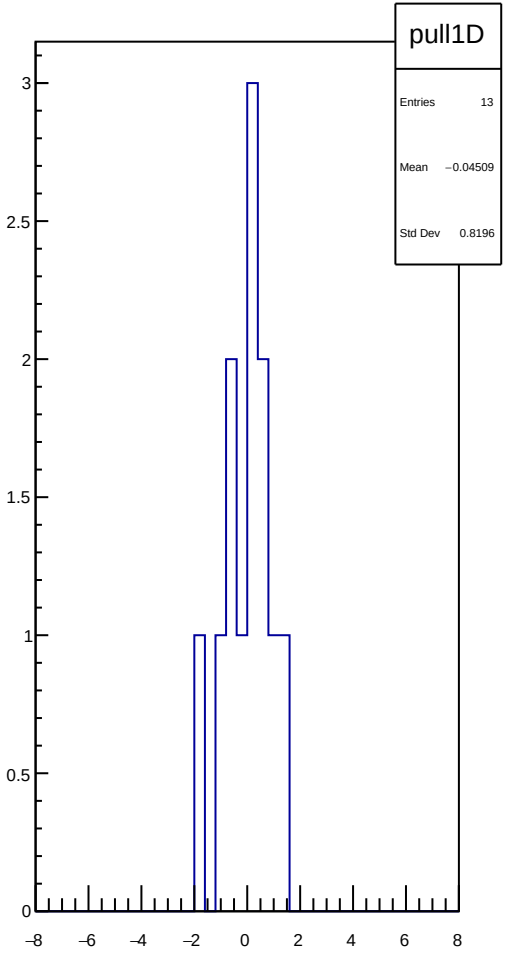

asym_left_agg_dd_rms vs run
χ² / ndf 141.2 / 11
p0 30.74 ± 0.06279
35
30
25
20
15
10
5
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

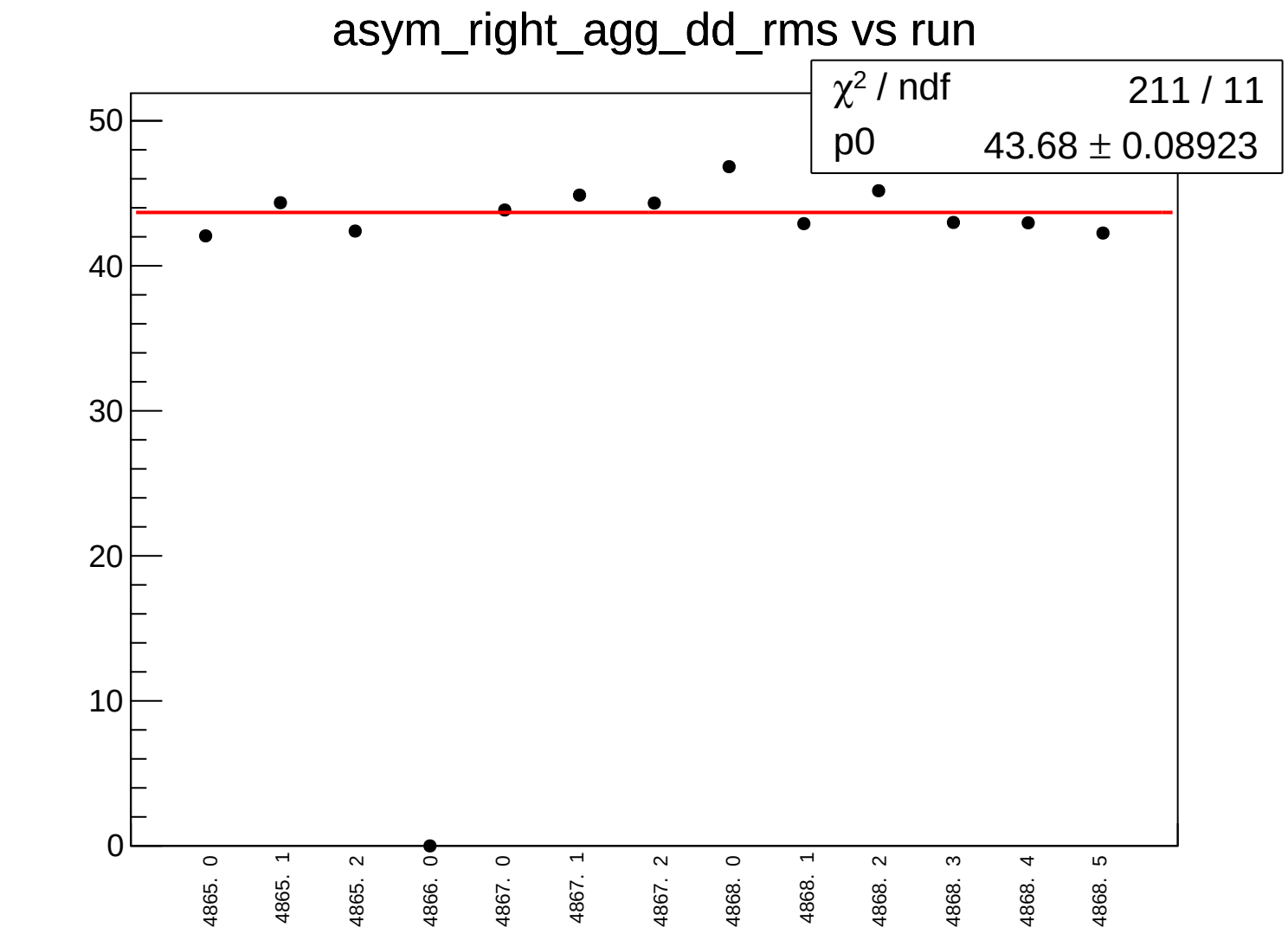

asym_right_agg_avg_mean vs run
χ² / ndf 2.815 / 11
p0 10.69 ± 1213
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

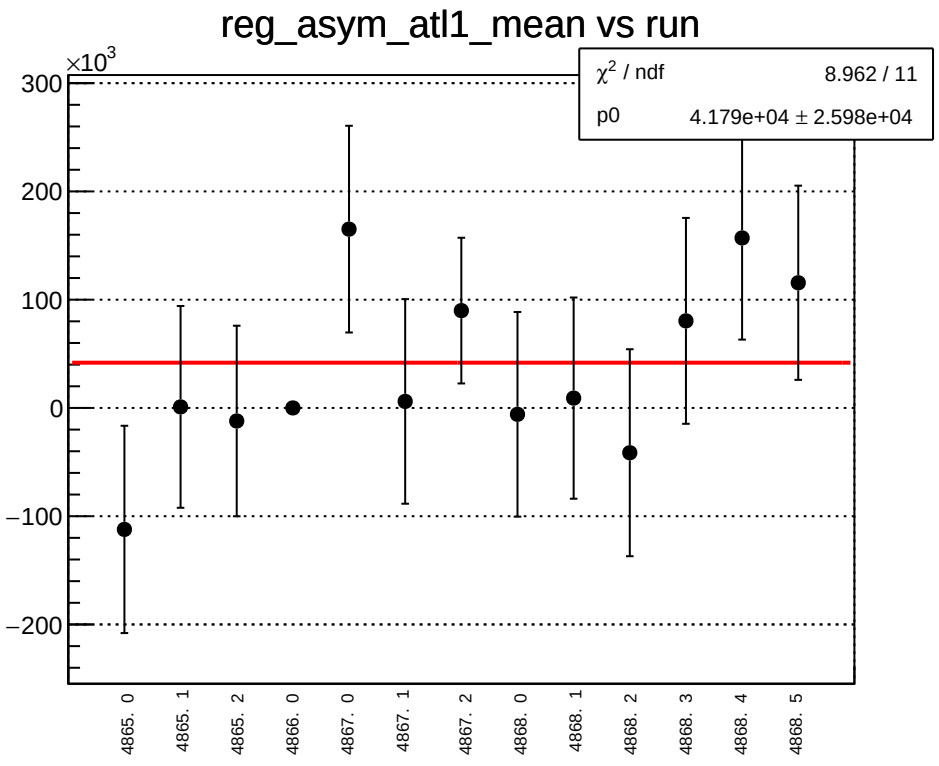

pull1D
Entries 13
Mean −0.009189
Std Dev 0.4843
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

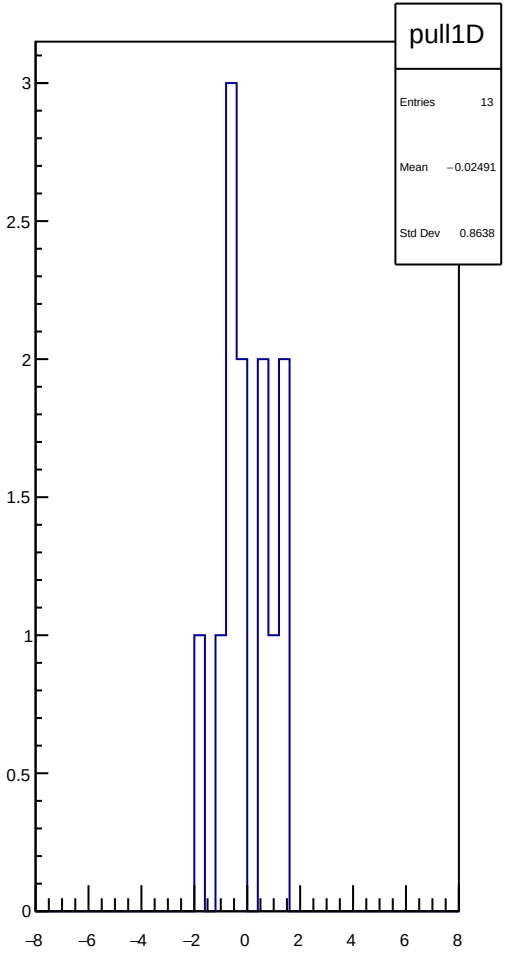

asym_right_agg_avg_rms vs run
χ² / ndf 687.7 / 11
p0 419.4 ± 0.8577
500
400
300
200
100
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

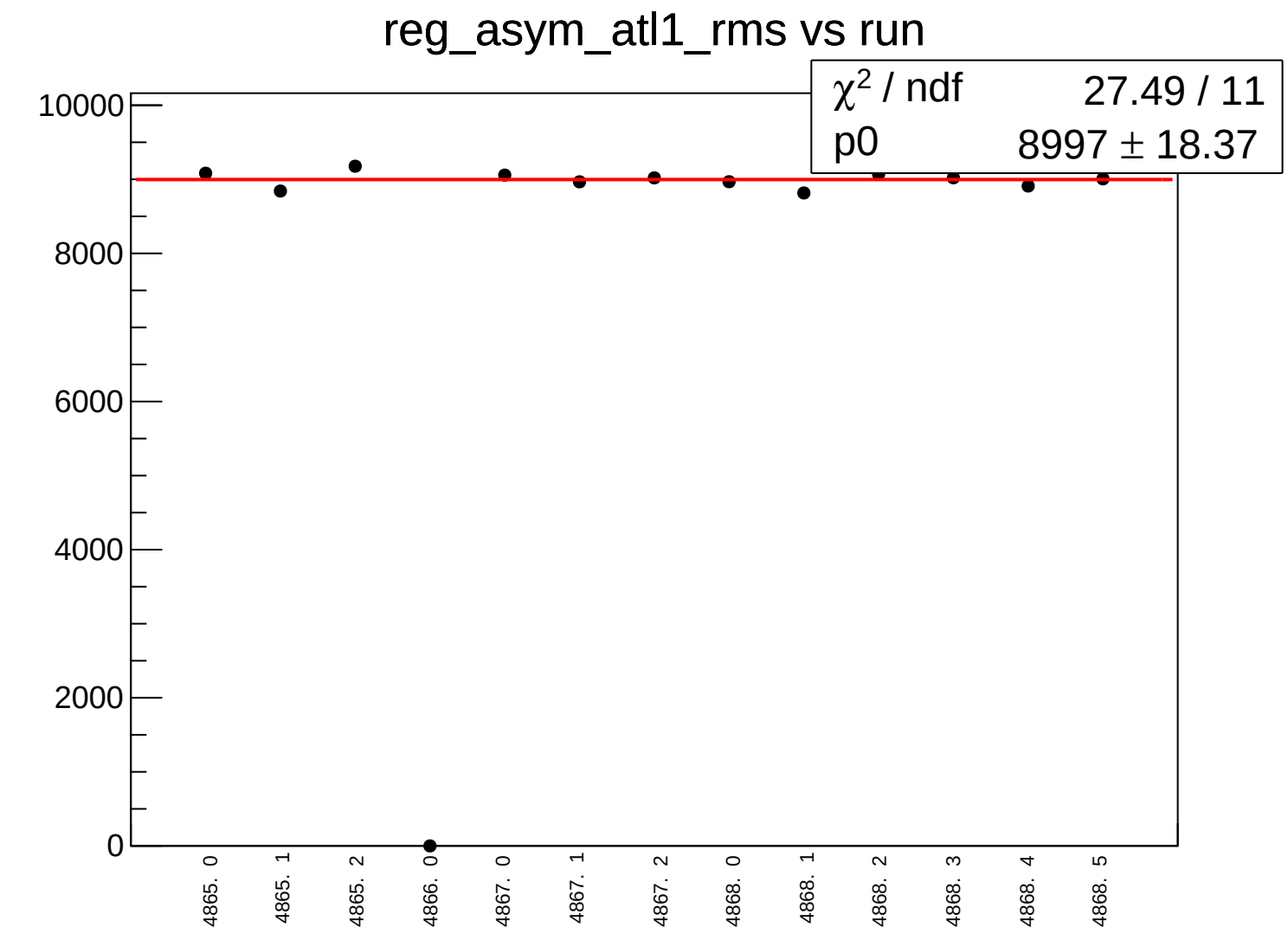

asym_right_agg_dd_mean vs run
χ² / ndf 8.086 / 11
p0 21.82 ± 126.2
1000
500
0
−500
−1000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

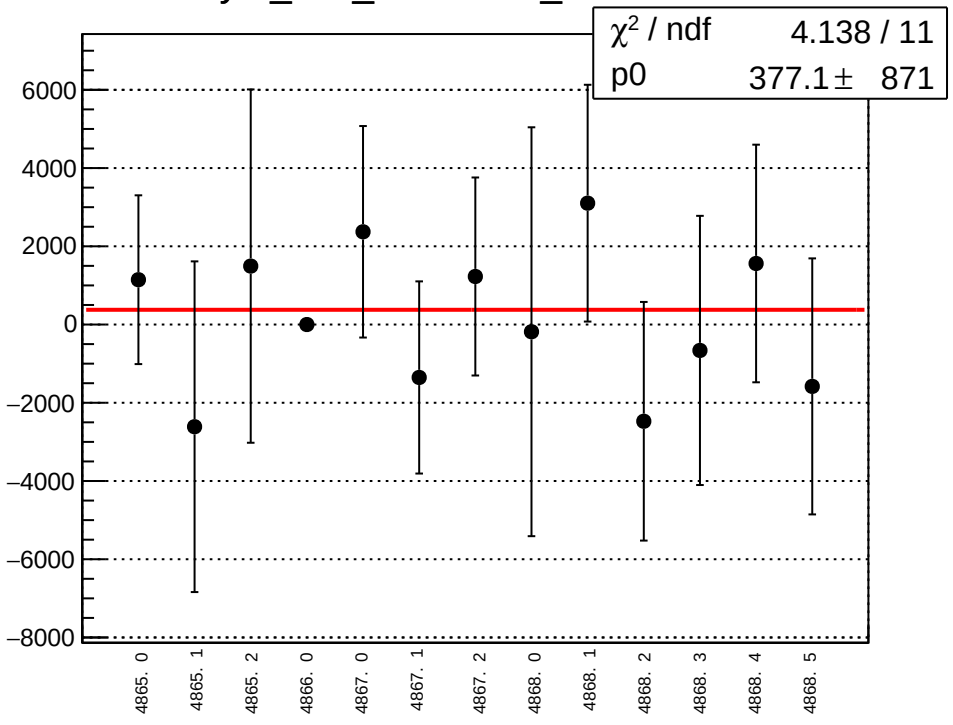

pull1D
Entries 13
Mean −0.04509
Std Dev 0.8196
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

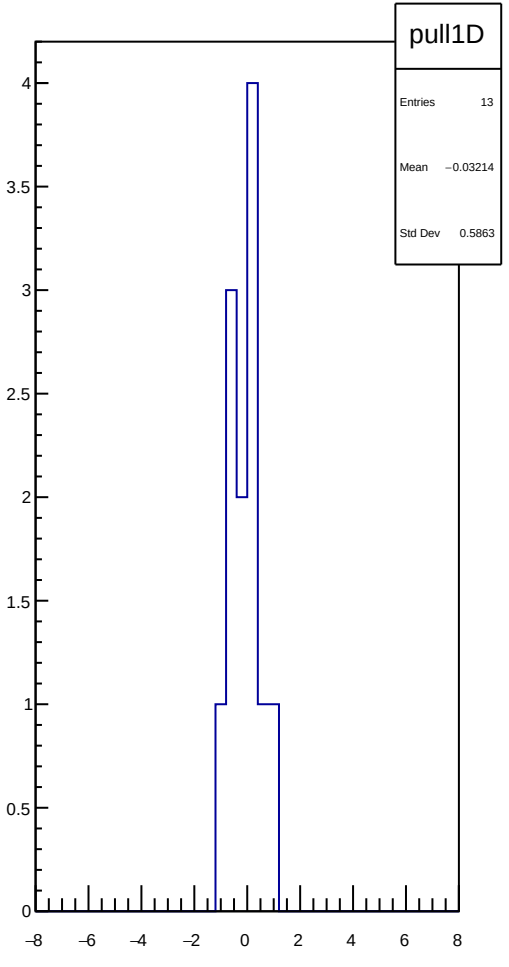

asym_right_agg_dd_rms vs run
χ² / ndf 211 / 11
p0 43.68 ± 0.08923
50
40
30
20
10
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

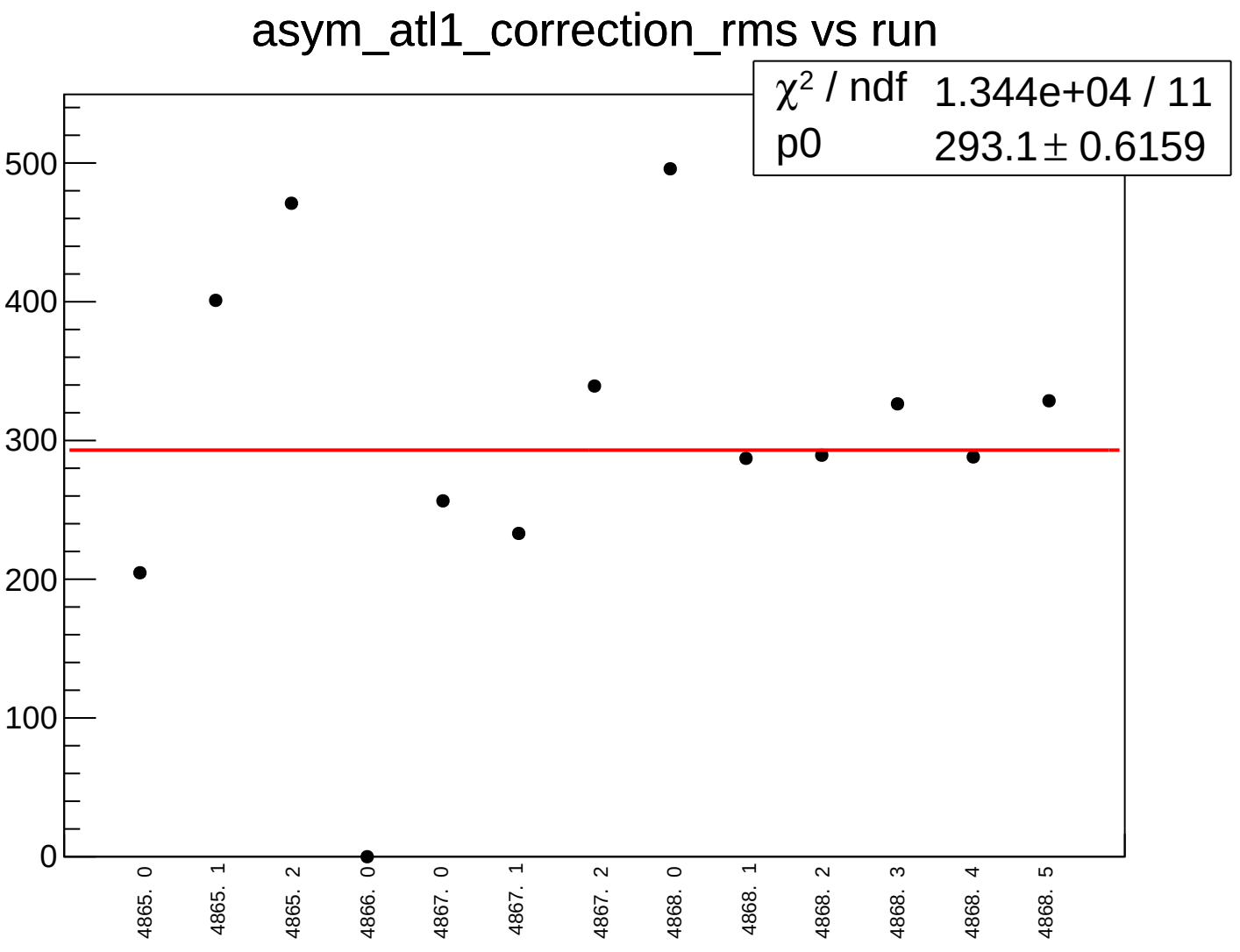

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 8.962 / 11
p0 4.179e+04 ± 2.598e+04
300
200
100
0
−100
−200
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

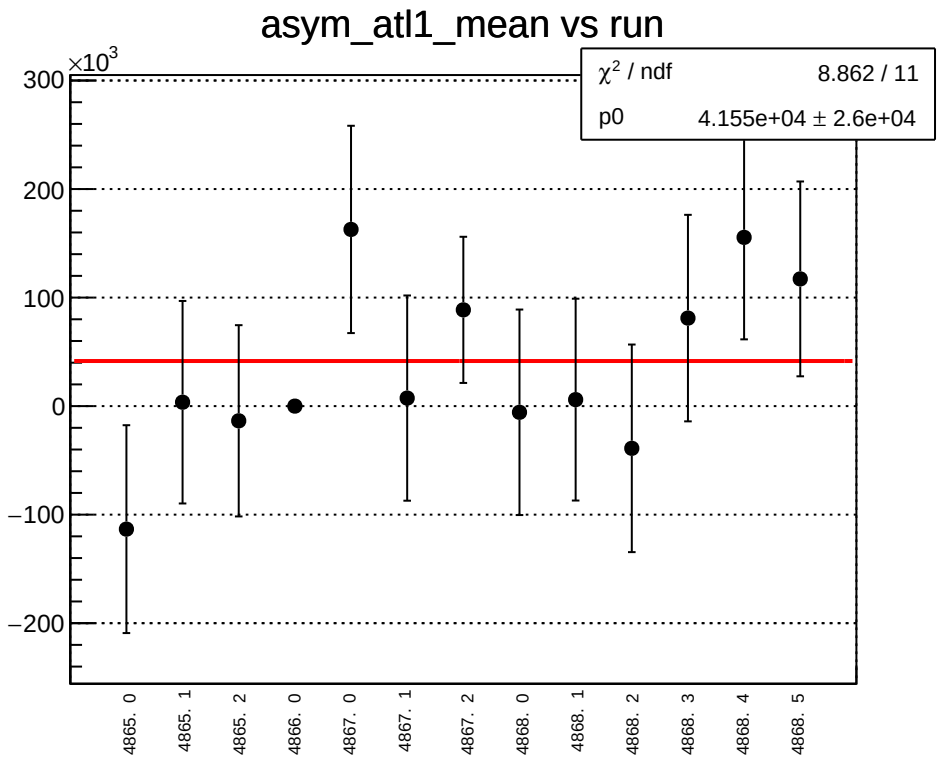

pull1D
Entries 13
Mean −0.02491
Std Dev 0.8638
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

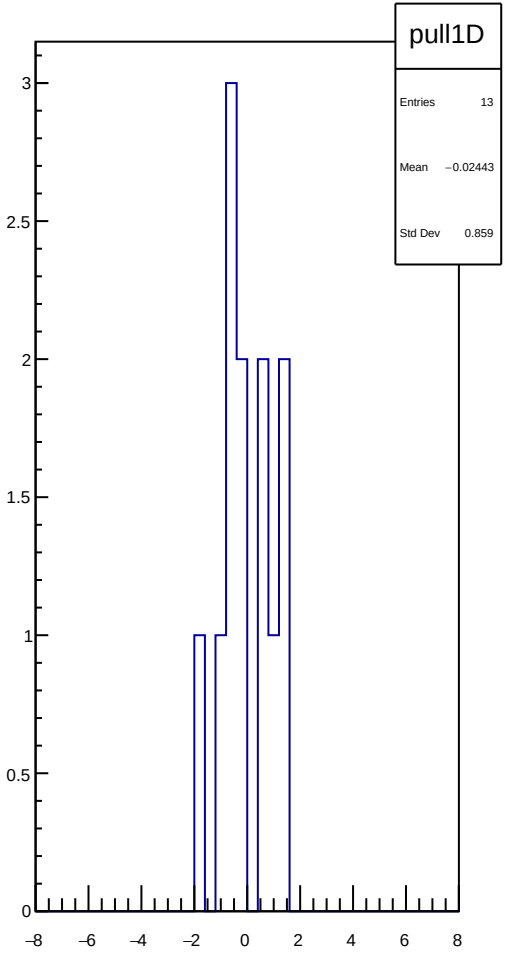

reg_asym_atl1_rms vs run
χ² / ndf 27.49 / 11
p0 8997 ± 18.37
10000
8000
6000
4000
2000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

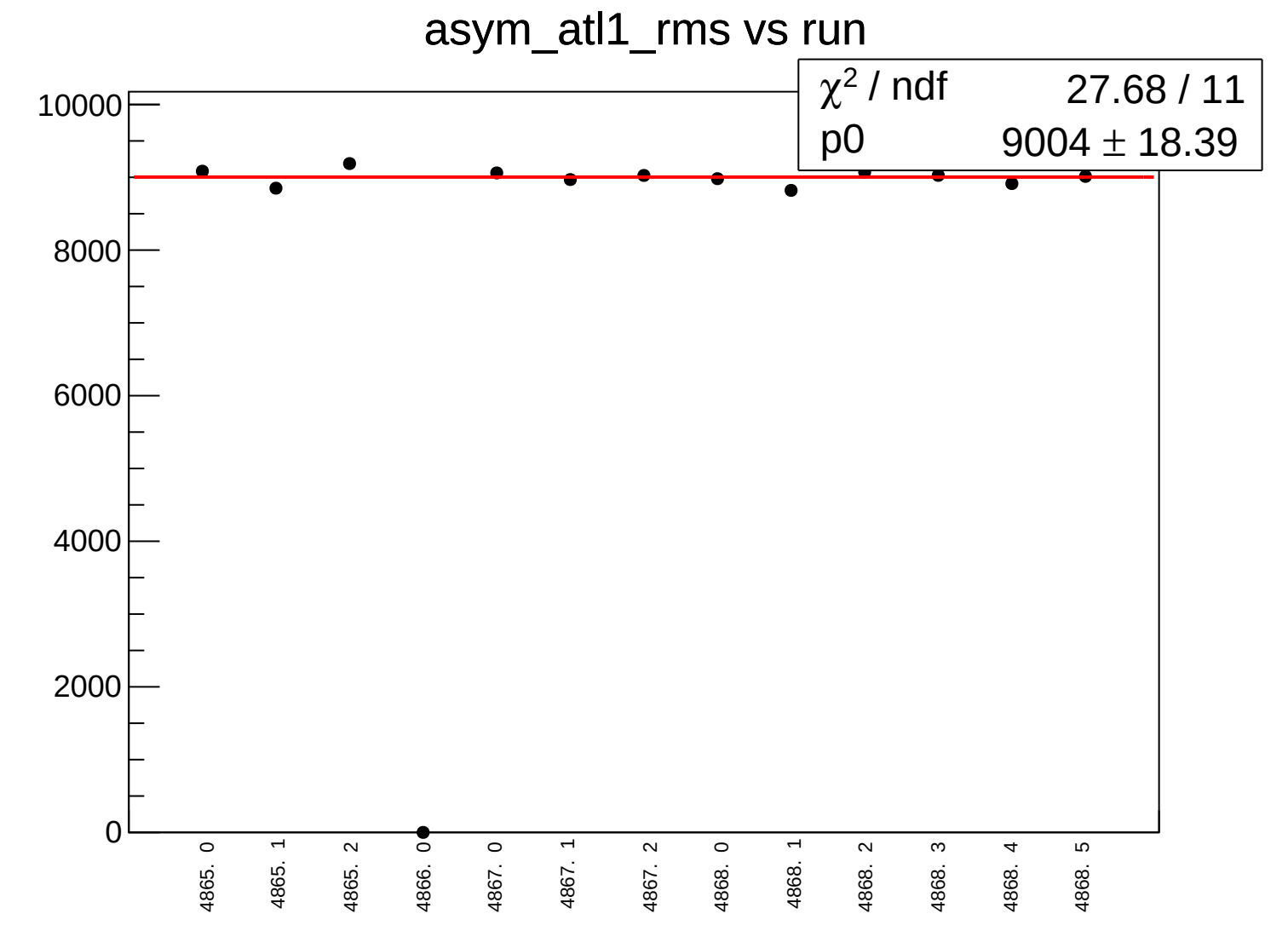

asym_atl1_correction_mean vs run
χ² / ndf 4.138 / 11
p0 377.1 ± 871
6000
4000
2000
0
−2000
−4000
−6000
−8000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

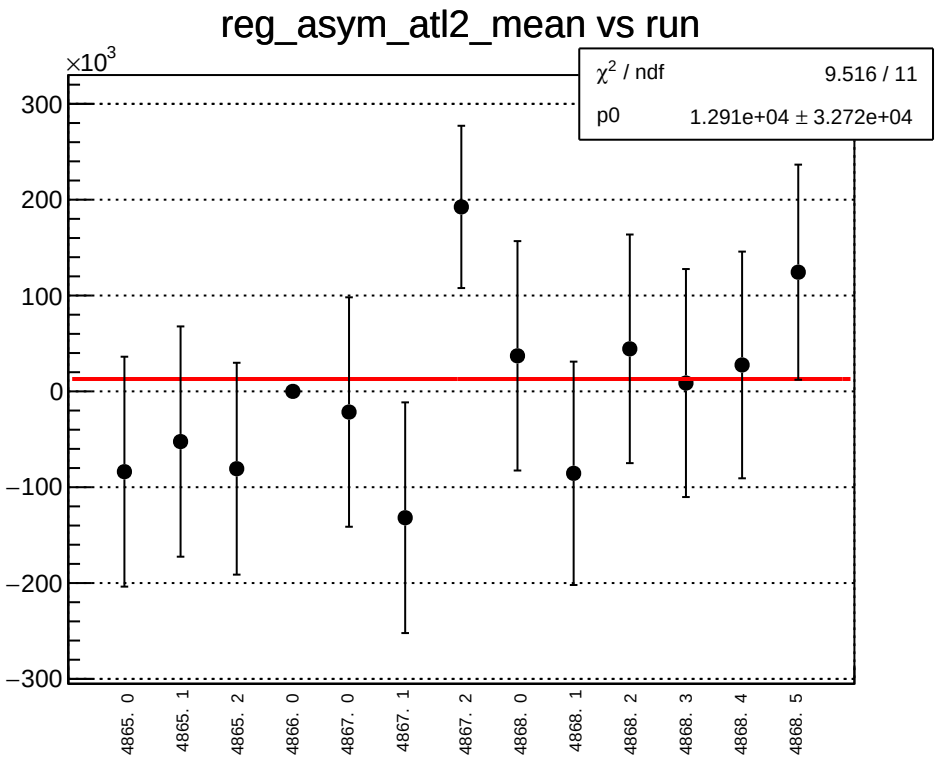

pull1D
Entries 13
Mean −0.03214
Std Dev 0.5863
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

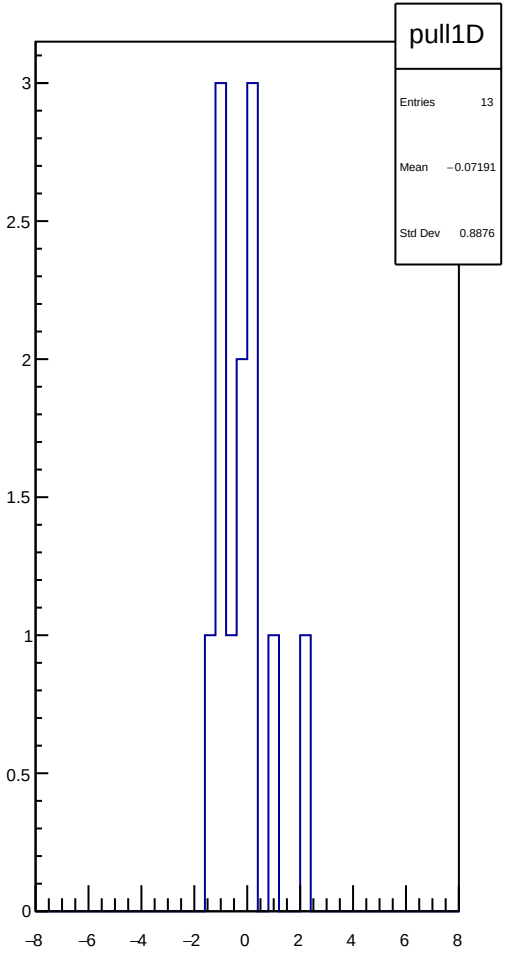

asym_atl1_correction_rms vs run
χ² / ndf 1.344e+04 / 11
p0 293.1 ± 0.6159
500
400
300
200
100
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_atl1_mean vs run
×10^3
χ² / ndf 8.862 / 11
p0 4.155e+04 ± 2.6e+04
300
200
100
0
−100
−200
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.02443
Std Dev 0.859
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1_rms vs run
χ^2 / ndf 27.68 / 11
p0 9004 ± 18.39
10000
8000
6000
4000
2000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


reg_asym_atl2_mean vs run
×10^3
χ^2 / ndf 9.516 / 11
p0 1.291e+04 ± 3.272e+04
300
200
100
0
−100
−200
−300
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.07191
Std Dev 0.8876
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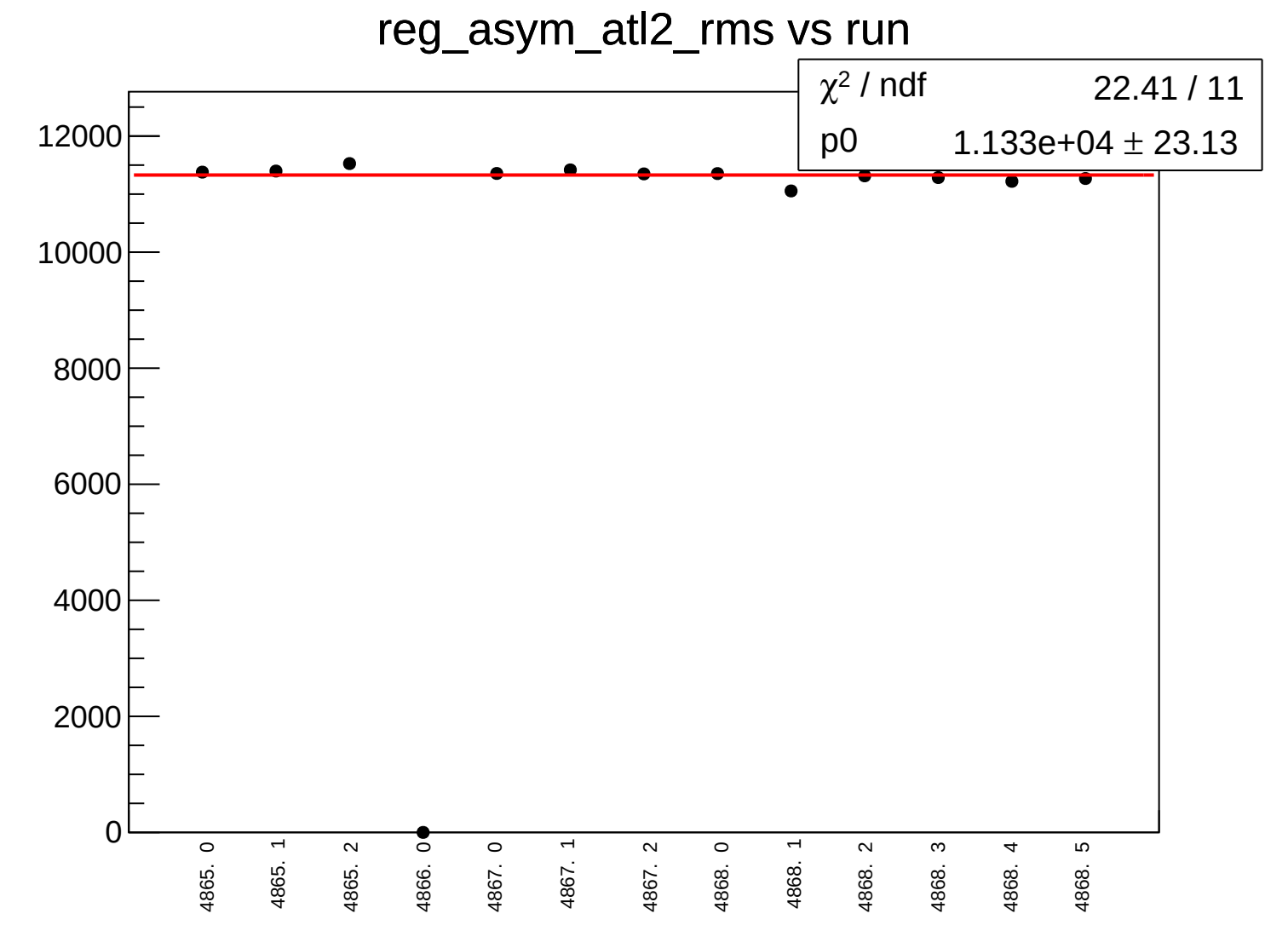
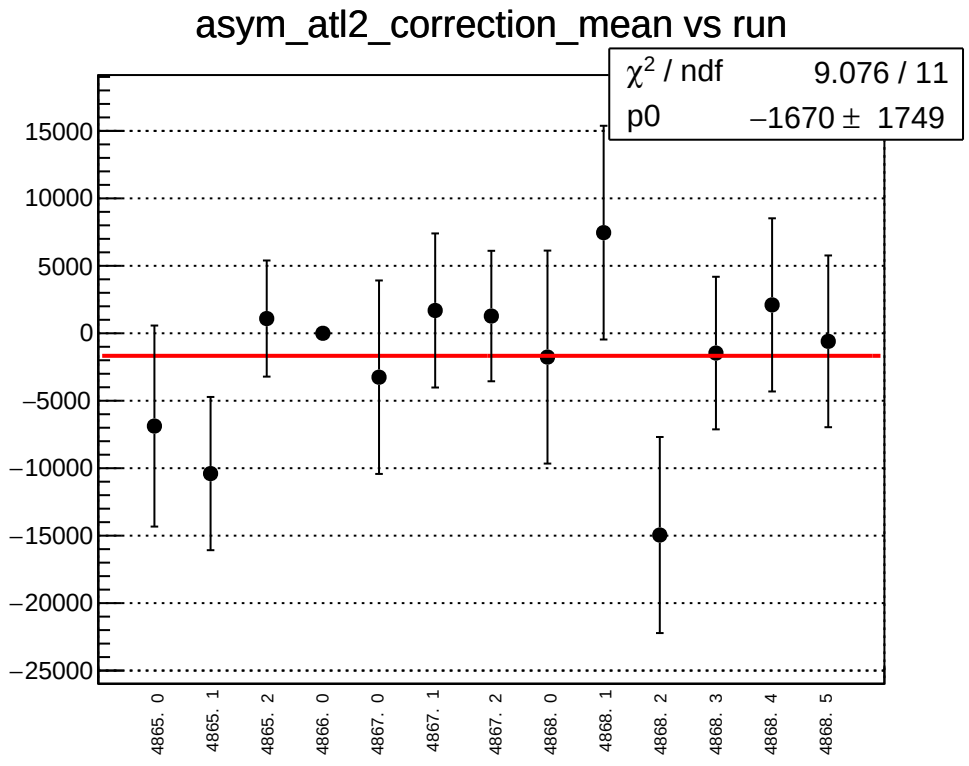
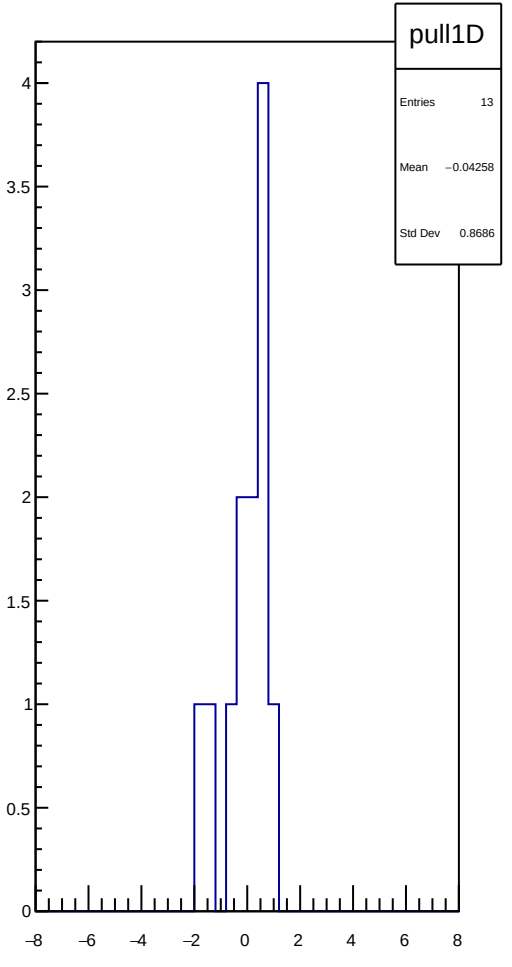
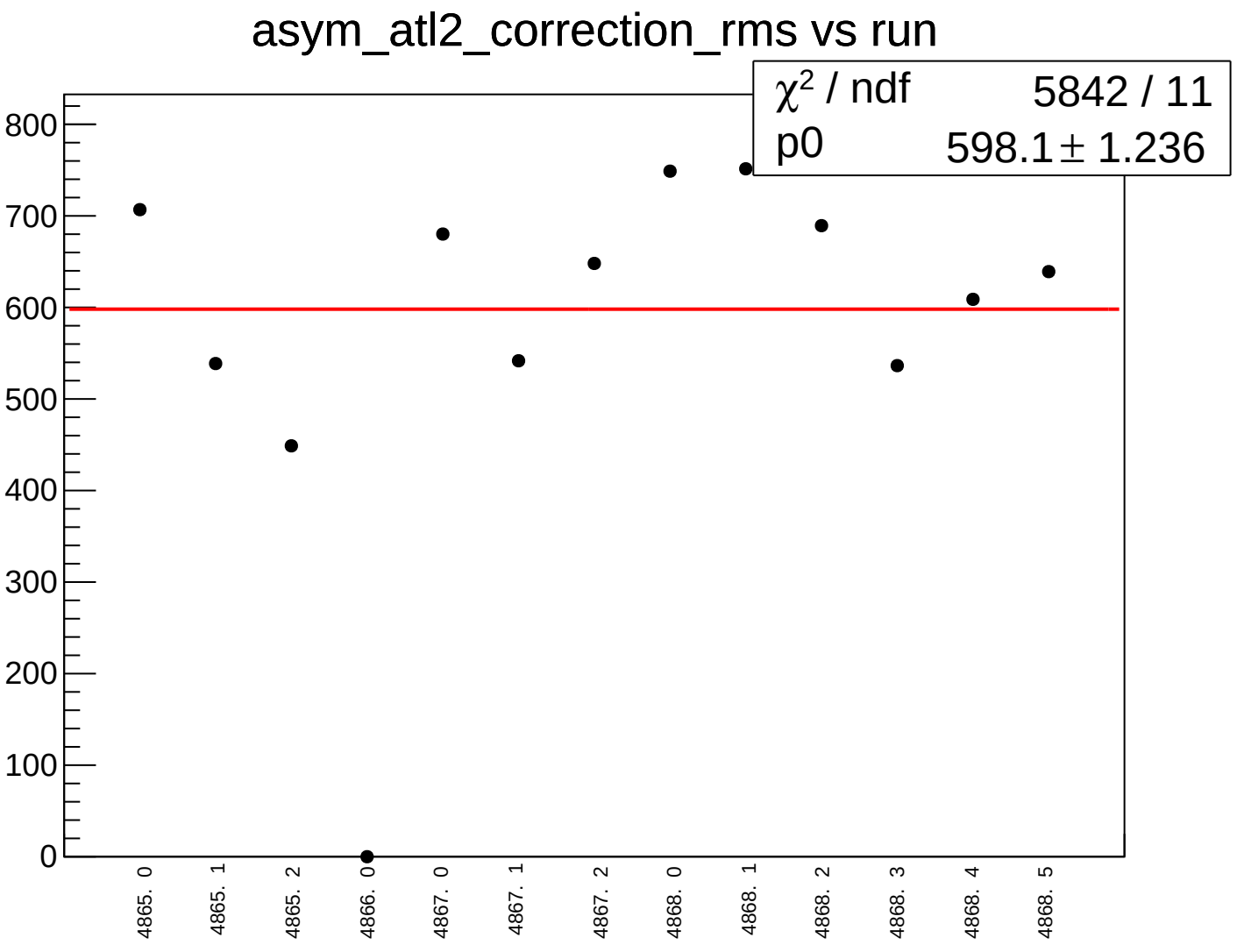
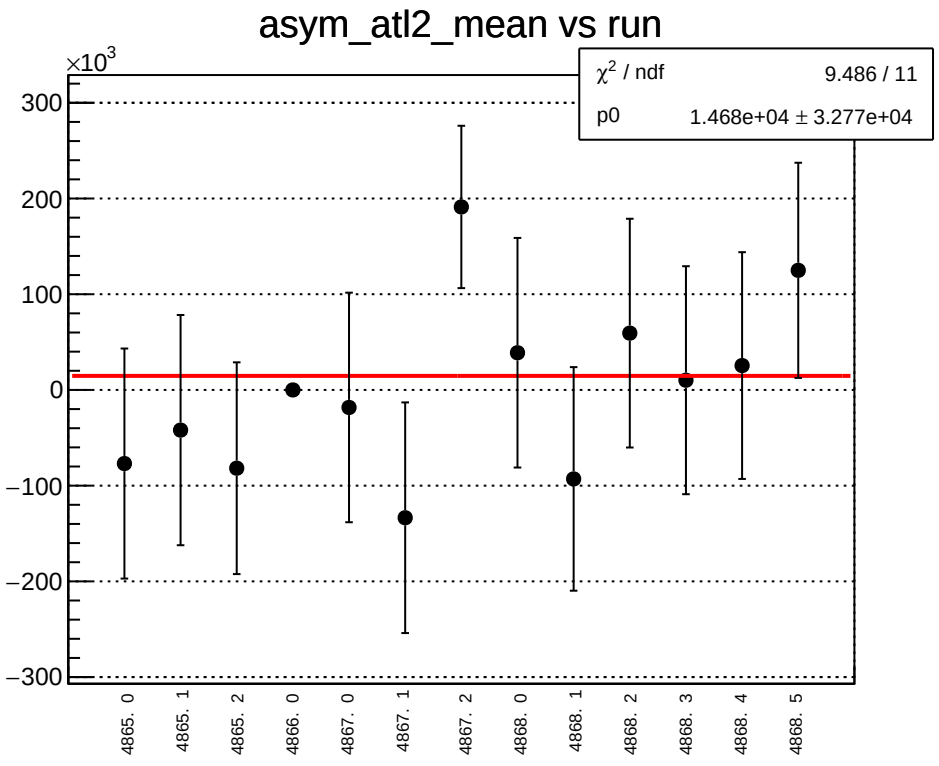
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl2_rms vs run
χ² / ndf 22.41 / 11
p0 1.133e+04 ± 23.13
12000
10000
8000
6000
4000
2000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_atl2_correction_mean vs run
χ² / ndf 9.076 / 11
p0 −1670 ± 1749
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.04258
Std Dev 0.8686
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl2_correction_rms vs run
χ² / ndf 5842 / 11
p0 598.1 ± 1.236
800
700
600
500
400
300
200
100
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_atl2_mean vs run
×10^3
χ² / ndf 9.486 / 11
p0 1.468e+04 ± 3.277e+04
300
200
100
0
−100
−200
−300
4865. 0
4865. 1
4865. 2
4866. 0
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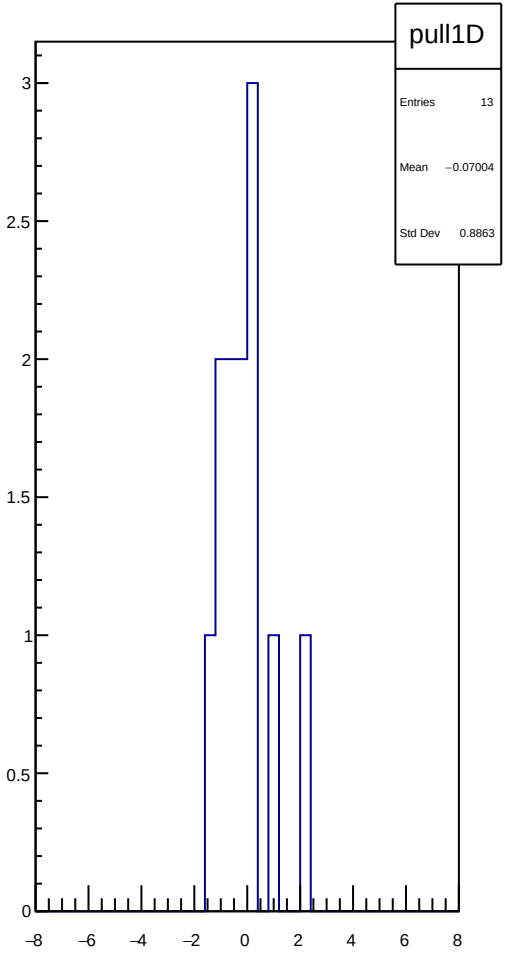
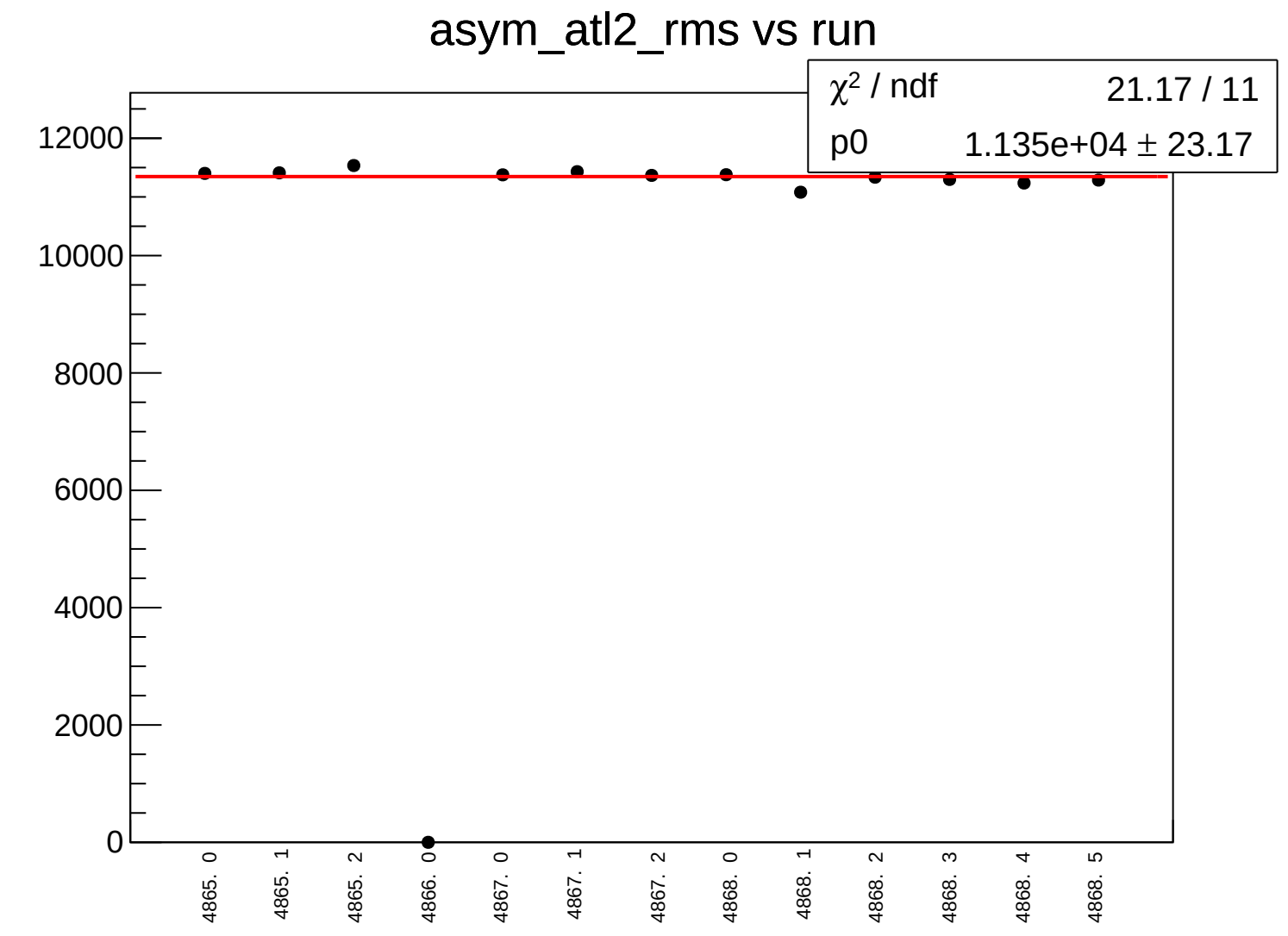
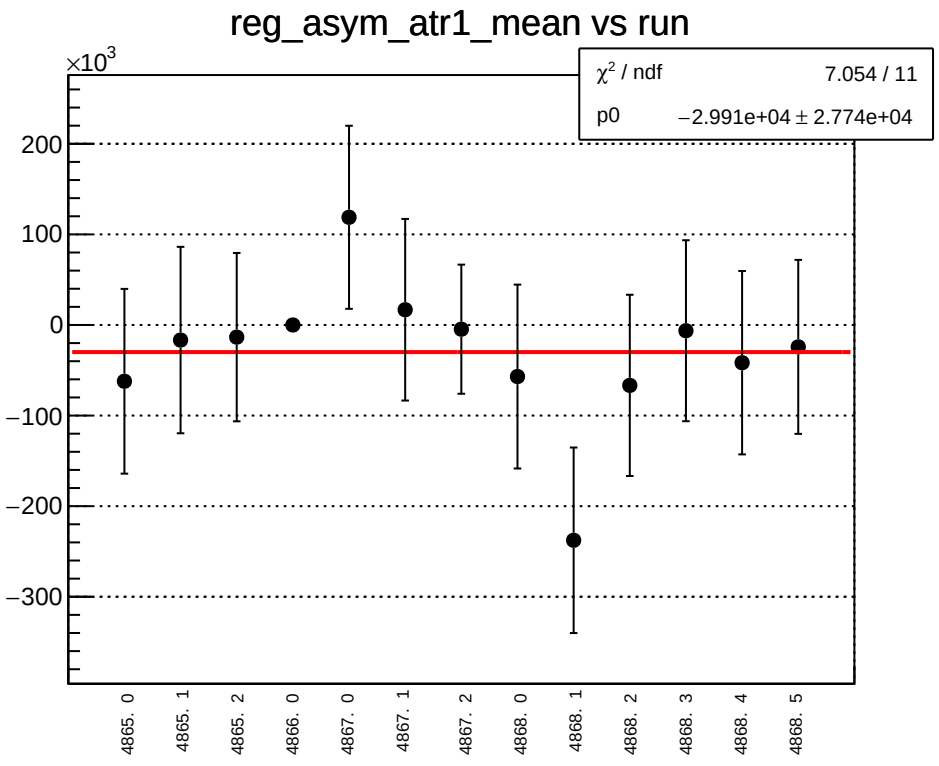
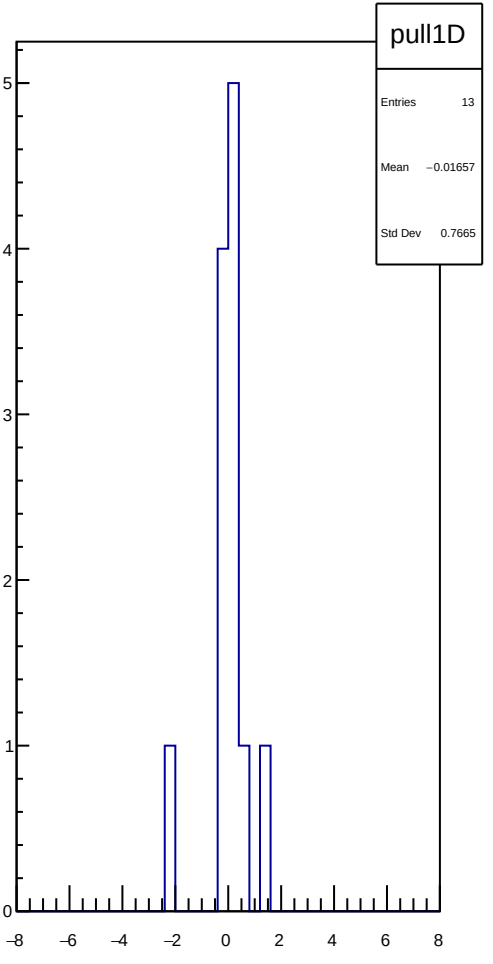
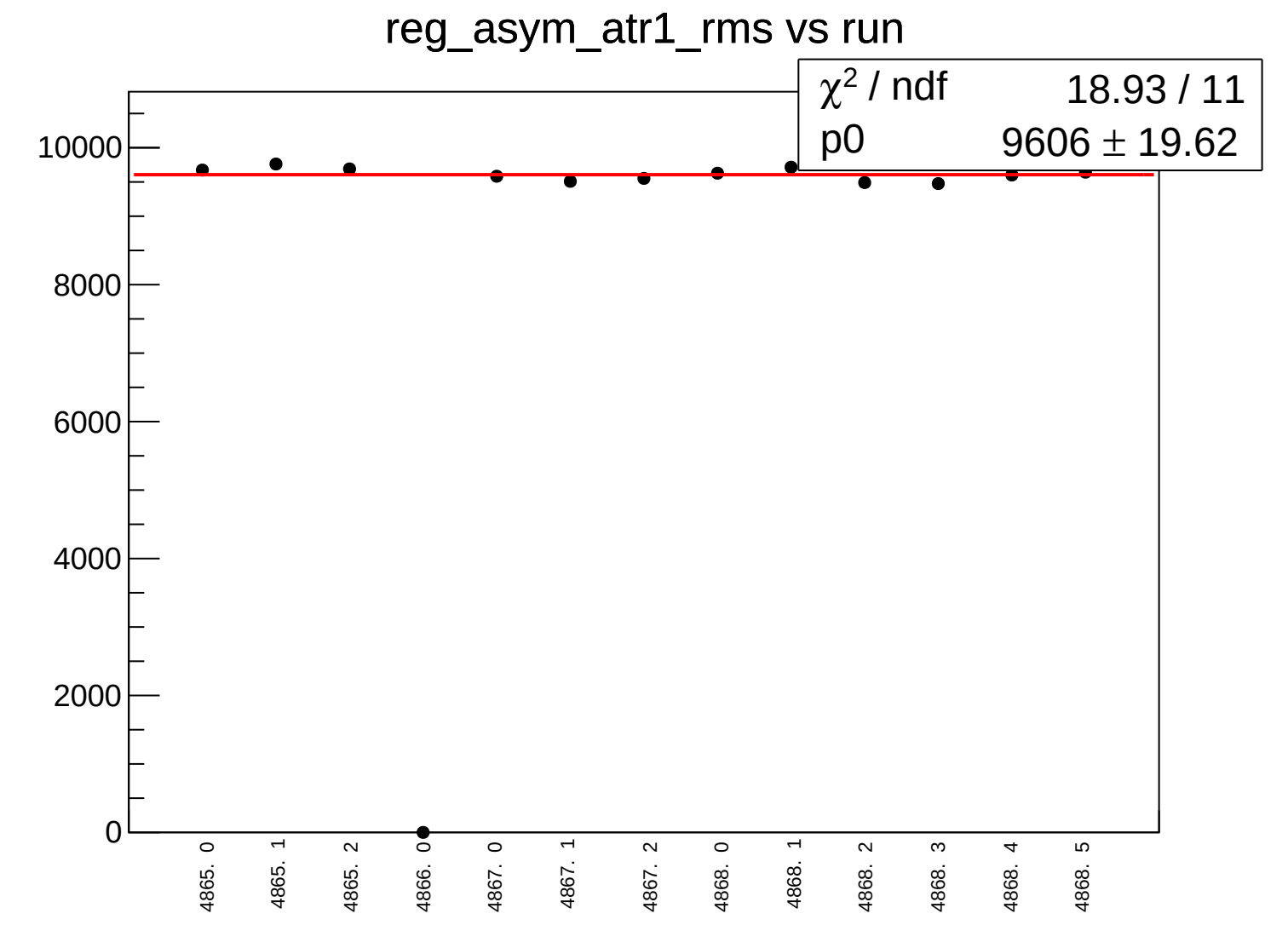
4868. 4
4868. 5

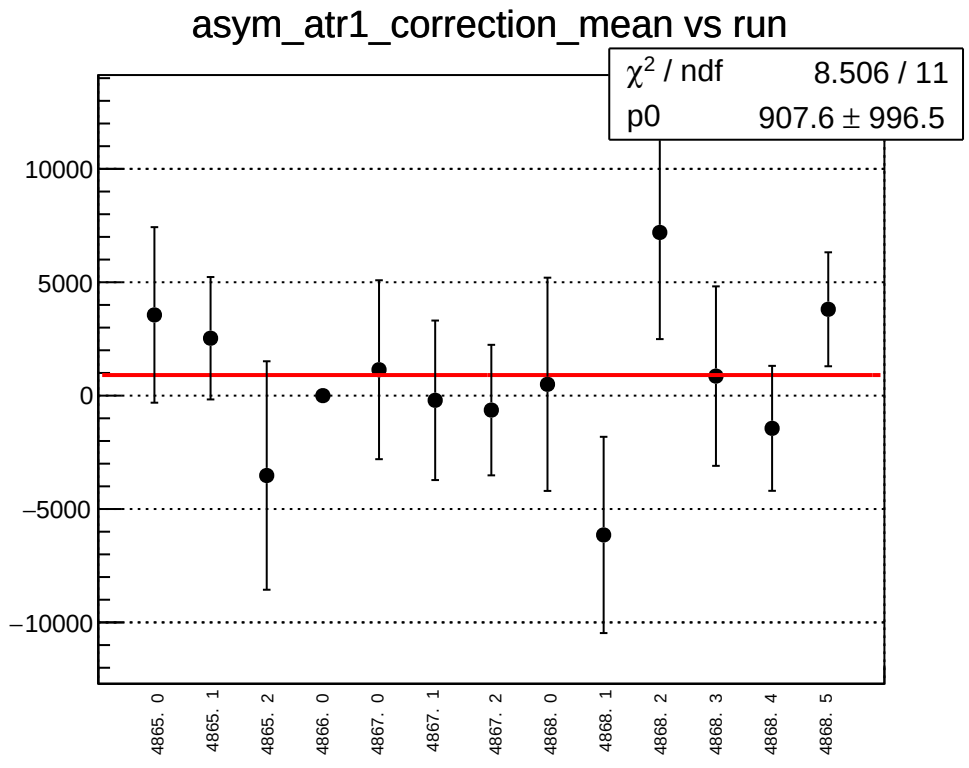

pull1D
Entries 13
Mean −0.07004
Std Dev 0.8863
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

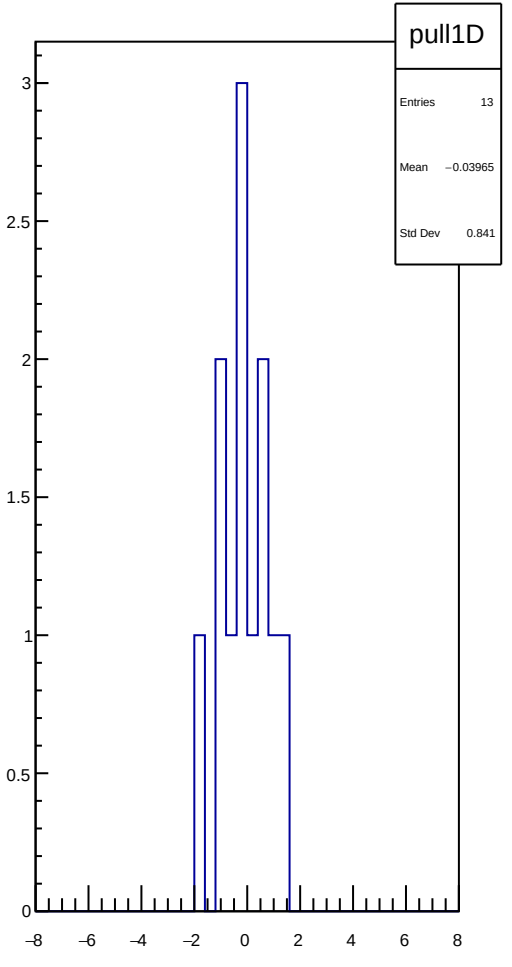

asym_atl2_rms vs run
χ² / ndf 21.17 / 11
p0 1.135e+04 ± 23.17
12000
10000
8000
6000
4000
2000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

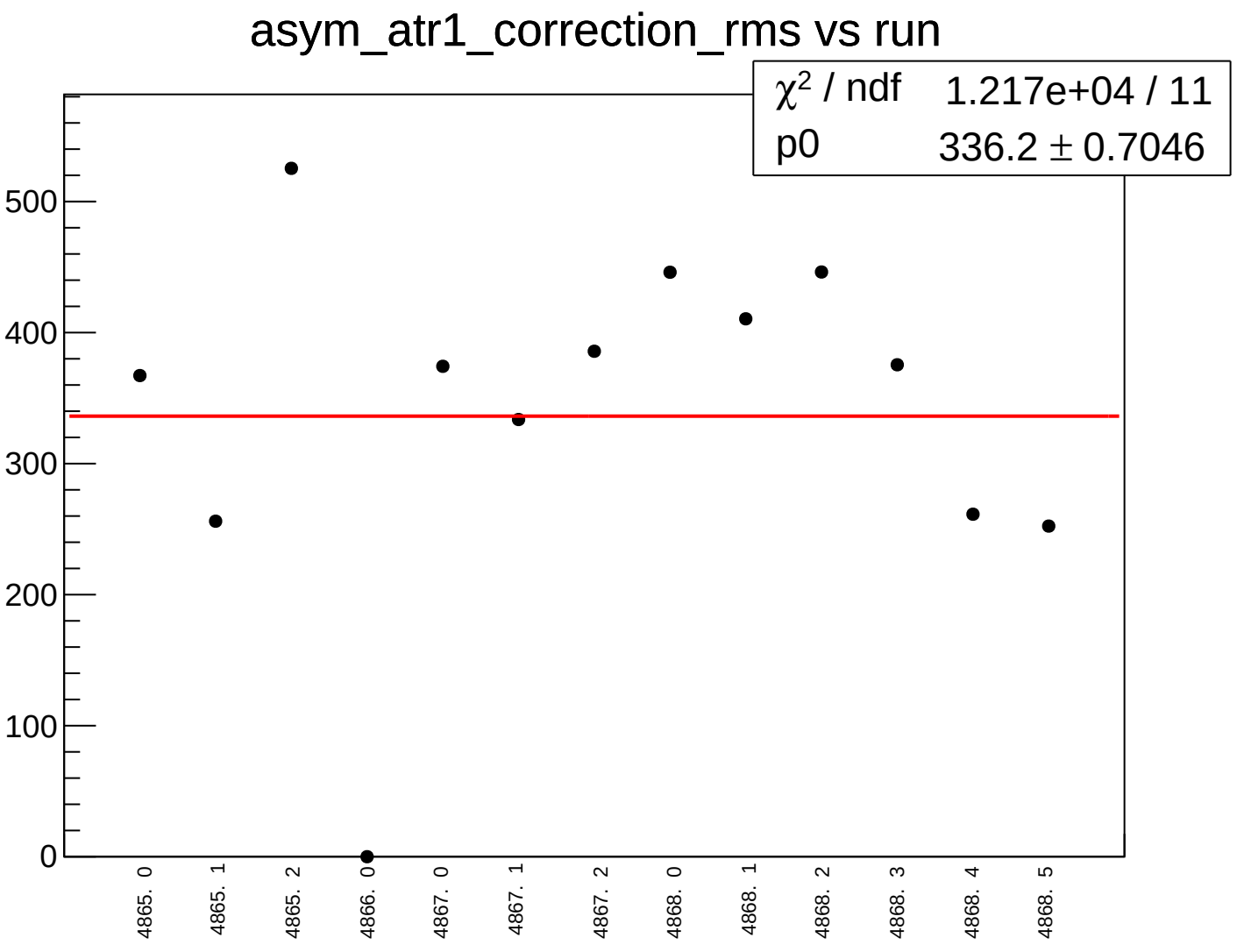

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 7.054 / 11
p0 −2.991e+04 ± 2.774e+04
200
100
0
−100
−200
−300
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

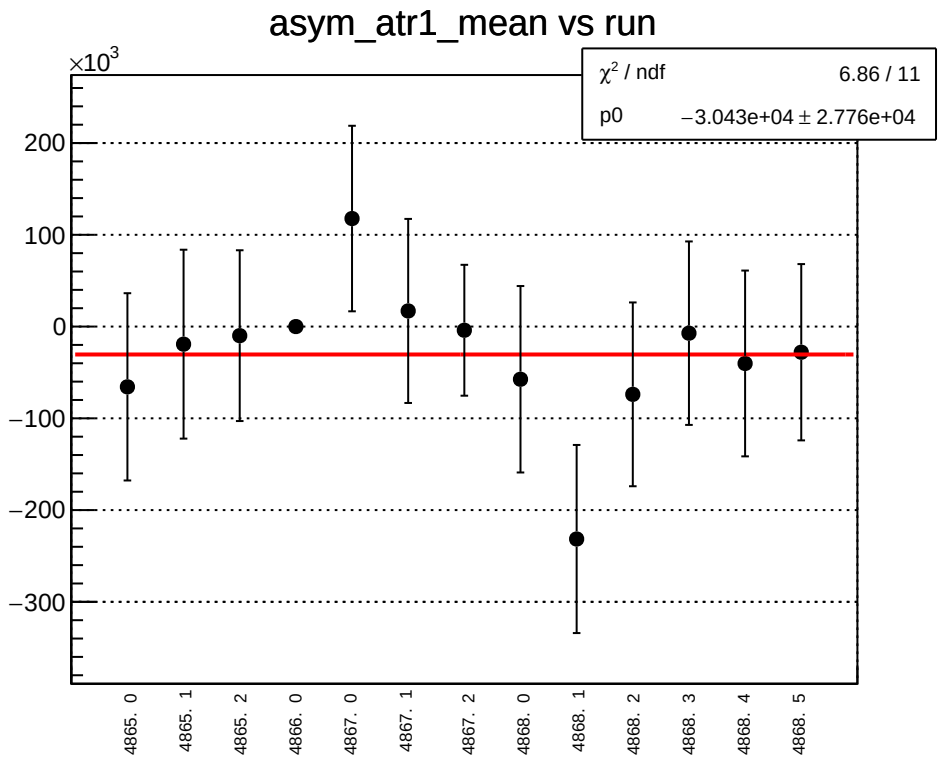

pull1D
Entries 13
Mean −0.01657
Std Dev 0.7665
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

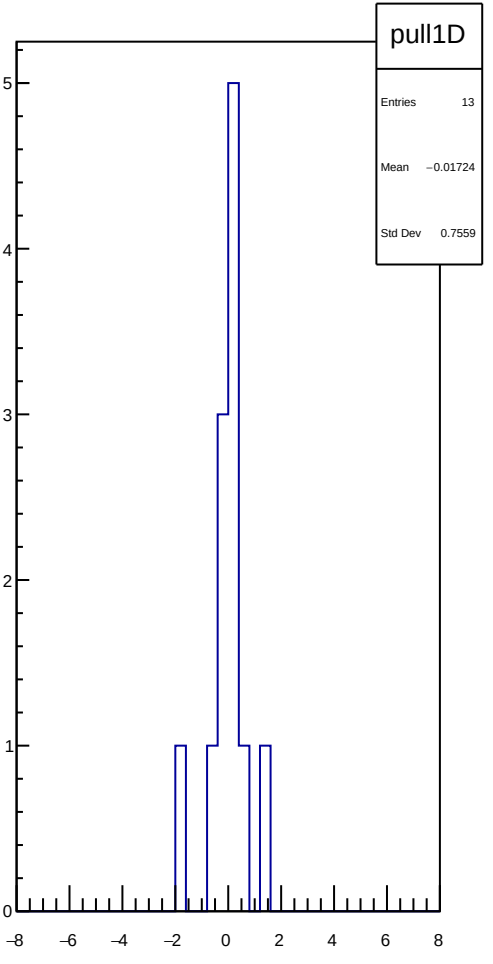

reg_asym_atr1_rms vs run
χ² / ndf 18.93 / 11
p0 9606 ± 19.62
10000
8000
6000
4000
2000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

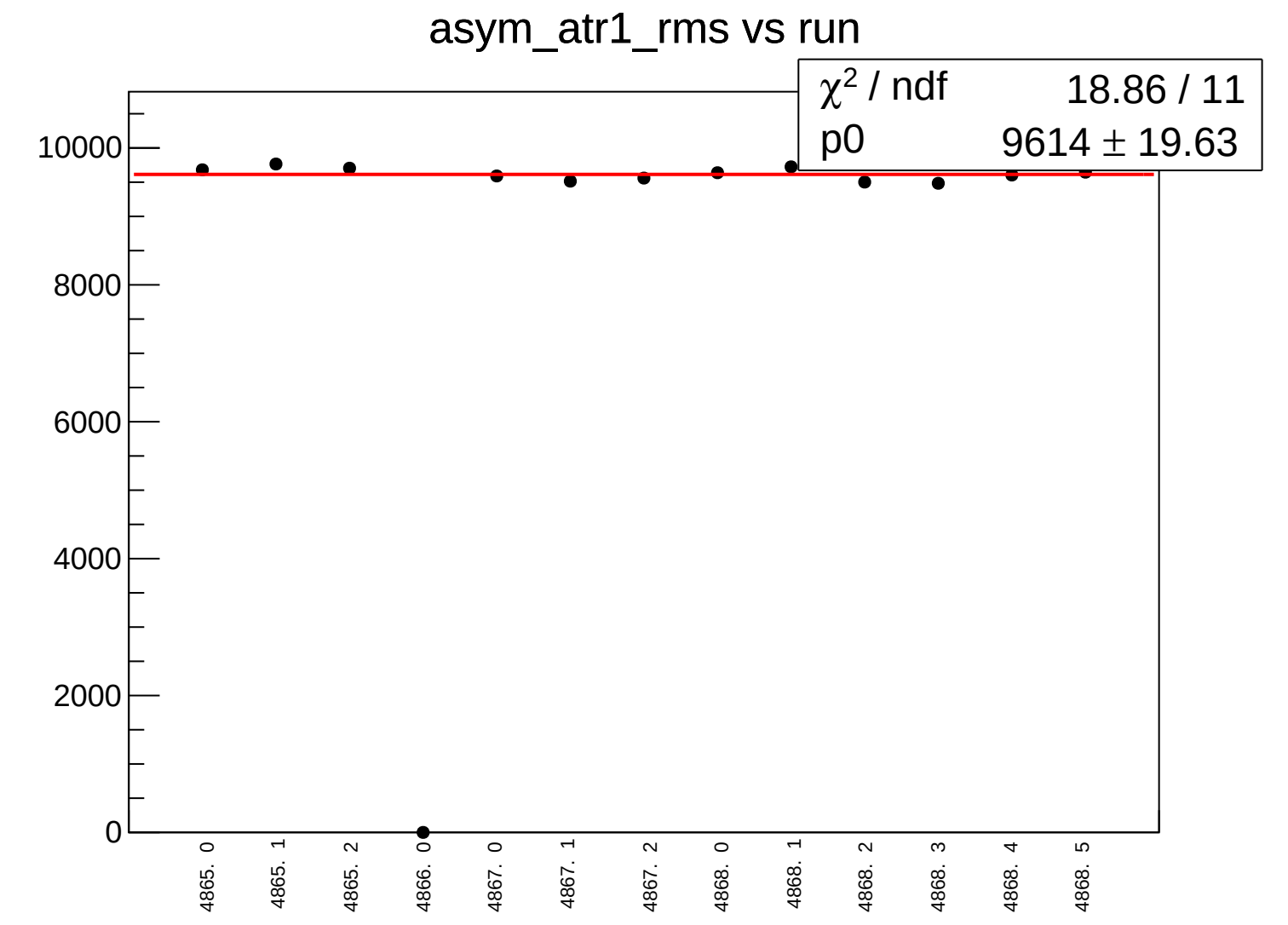

asym_atr1_correction_mean vs run
χ² / ndf 8.506 / 11
p0 907.6 ± 996.5
10000
5000
0
−5000
−10000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.03965
Std Dev 0.841
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1_correction_rms vs run
χ² / ndf 1.217e+04 / 11
p0 336.2 ± 0.7046
500
400
300
200
100
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_atr1_mean vs run
×10^3
χ² / ndf 6.86 / 11
p0 −3.043e+04 ± 2.776e+04
200
100
0
−100
−200
−300
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.01724
Std Dev 0.7559
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1_rms vs run
χ² / ndf 18.86 / 11
p0 9614 ± 19.63
10000
8000
6000
4000
2000
0
4865. 0
4865. 1
4865. 2
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4867. 1
4867. 2
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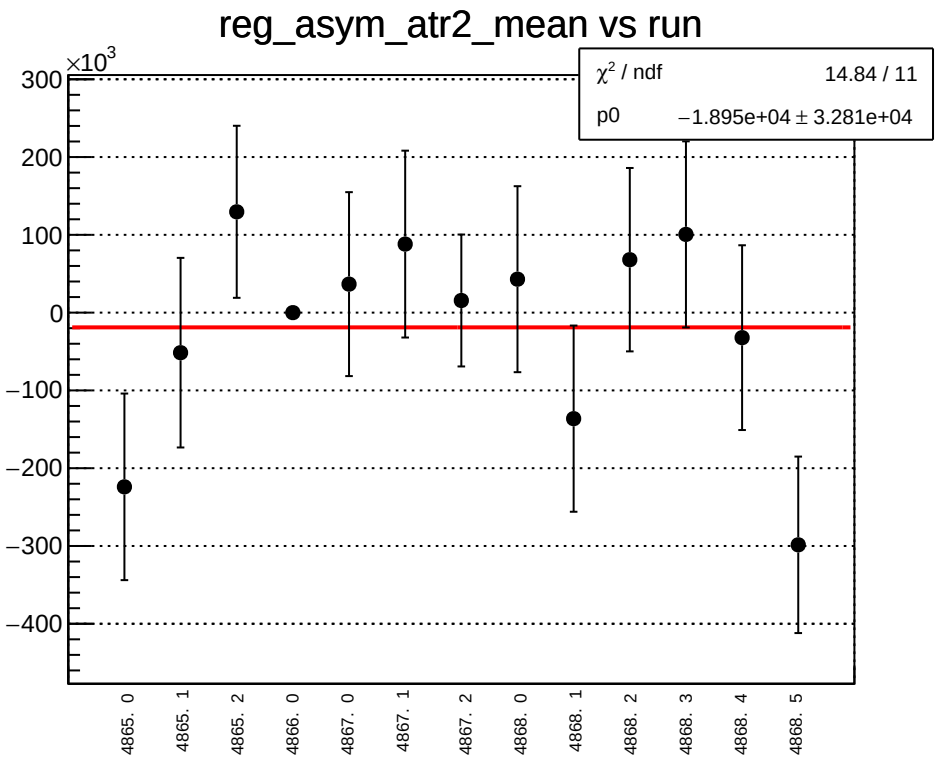
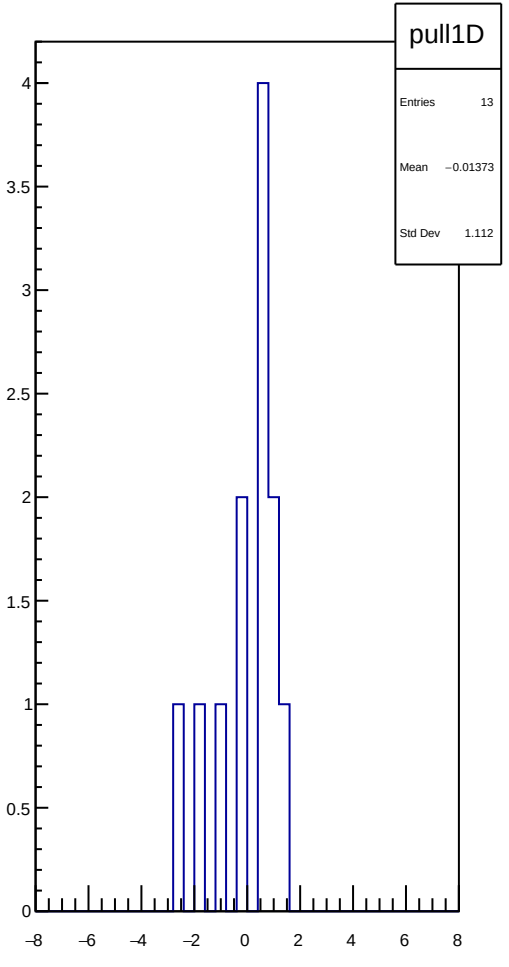
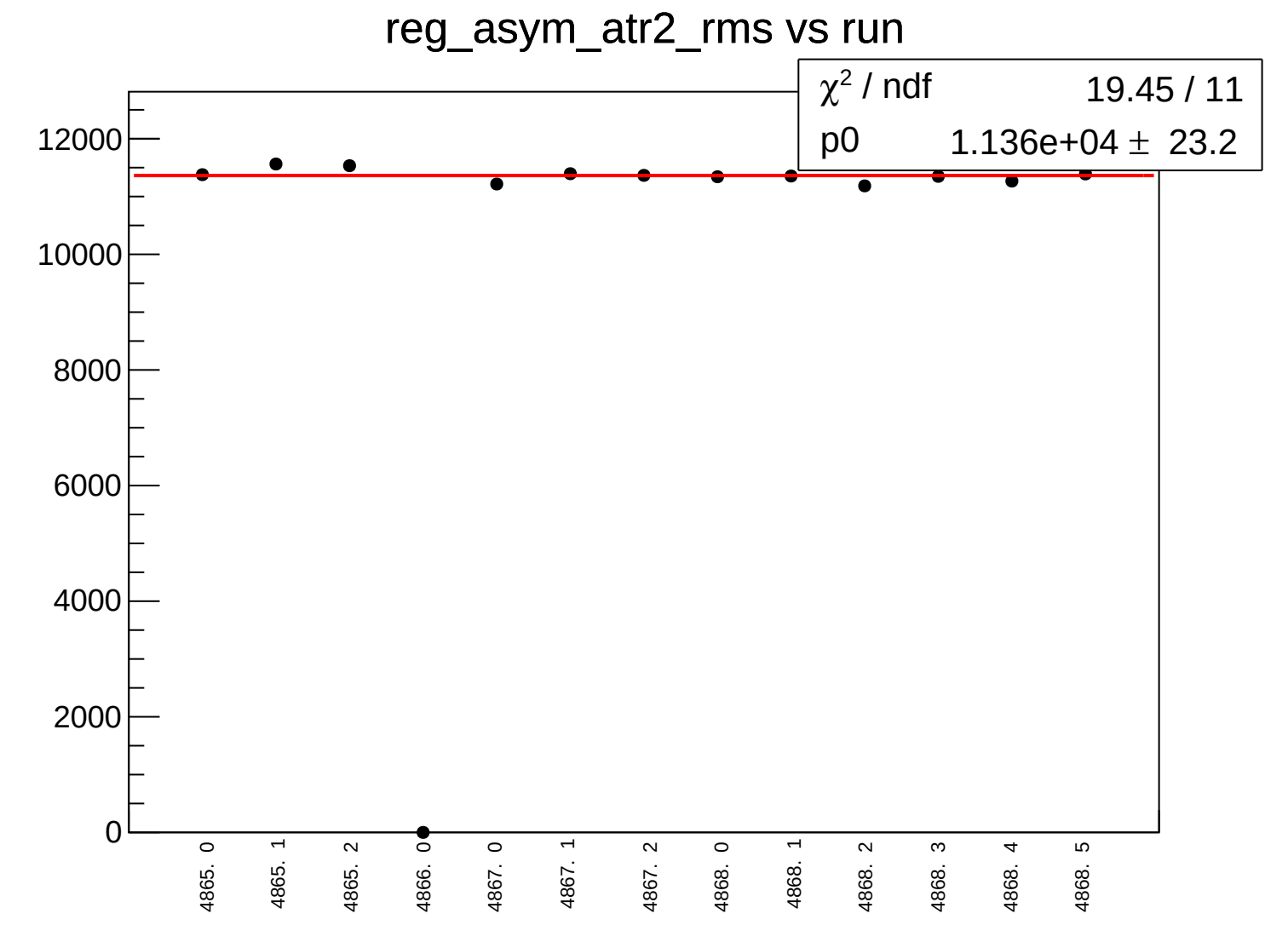
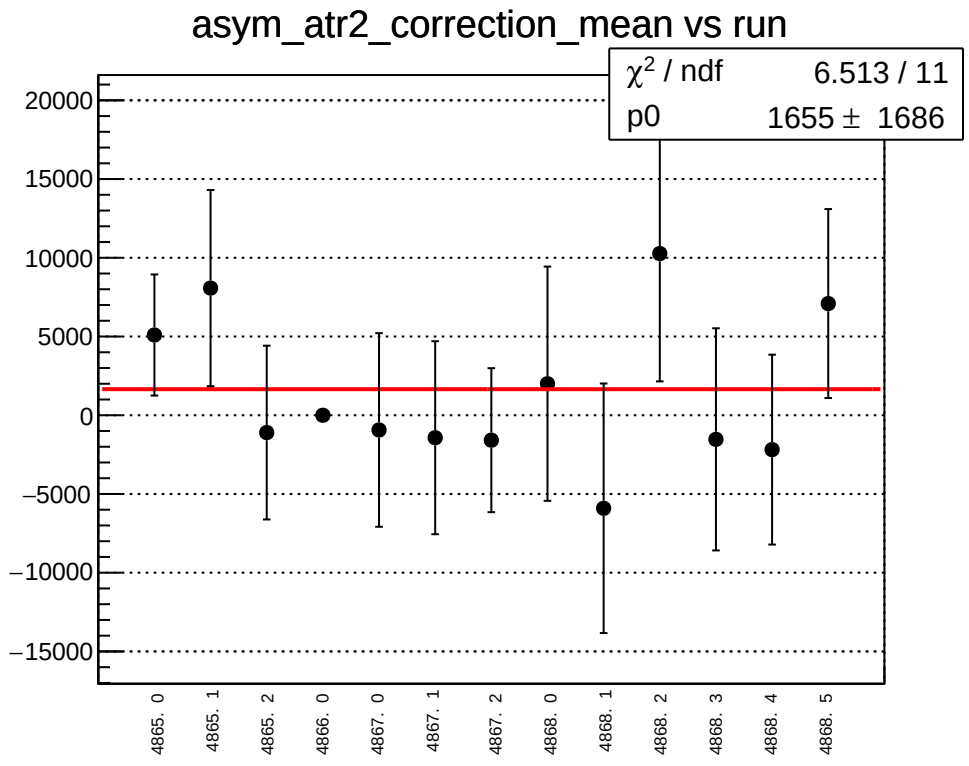
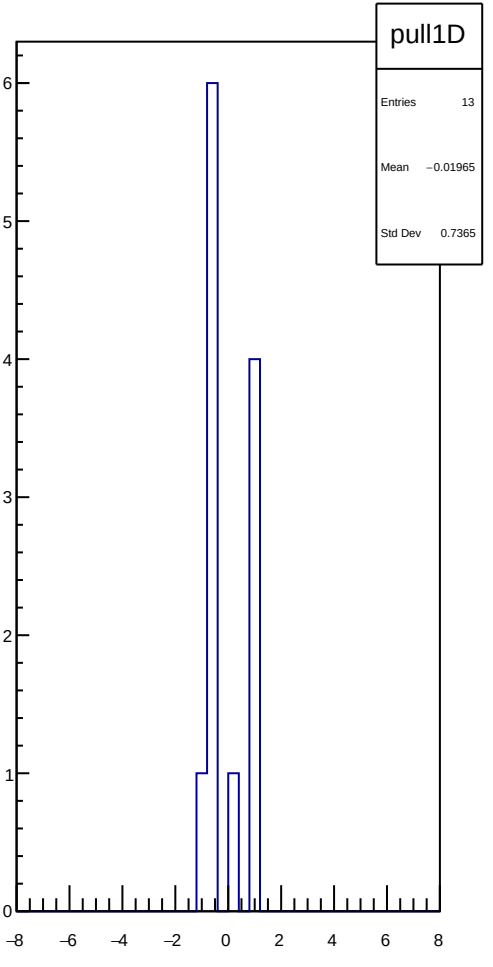
4868. 4
4868. 5

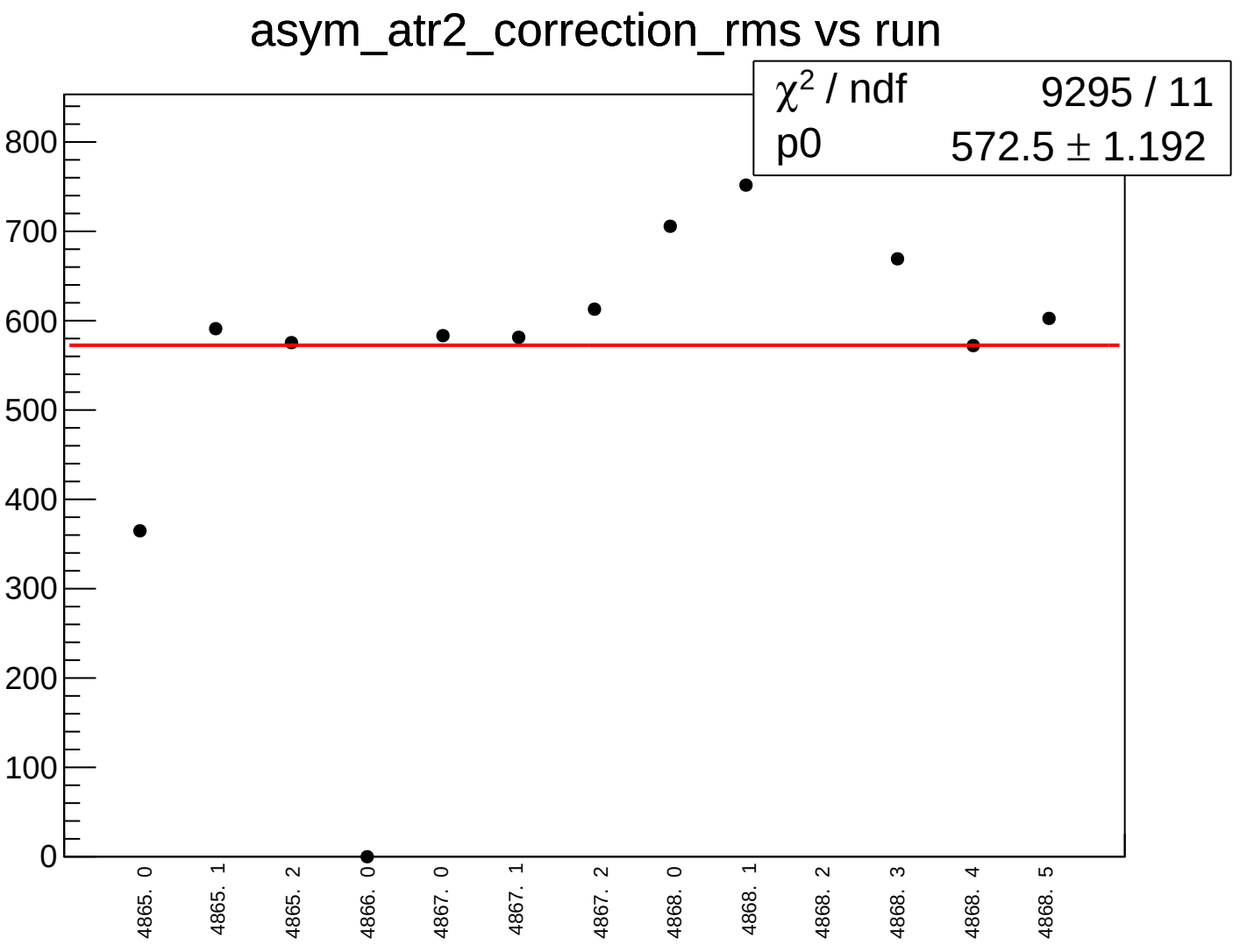

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 14.84 / 11
p0 −1.895e+04 ± 3.281e+04
300
200
100
0
−100
−200
−300
−400
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

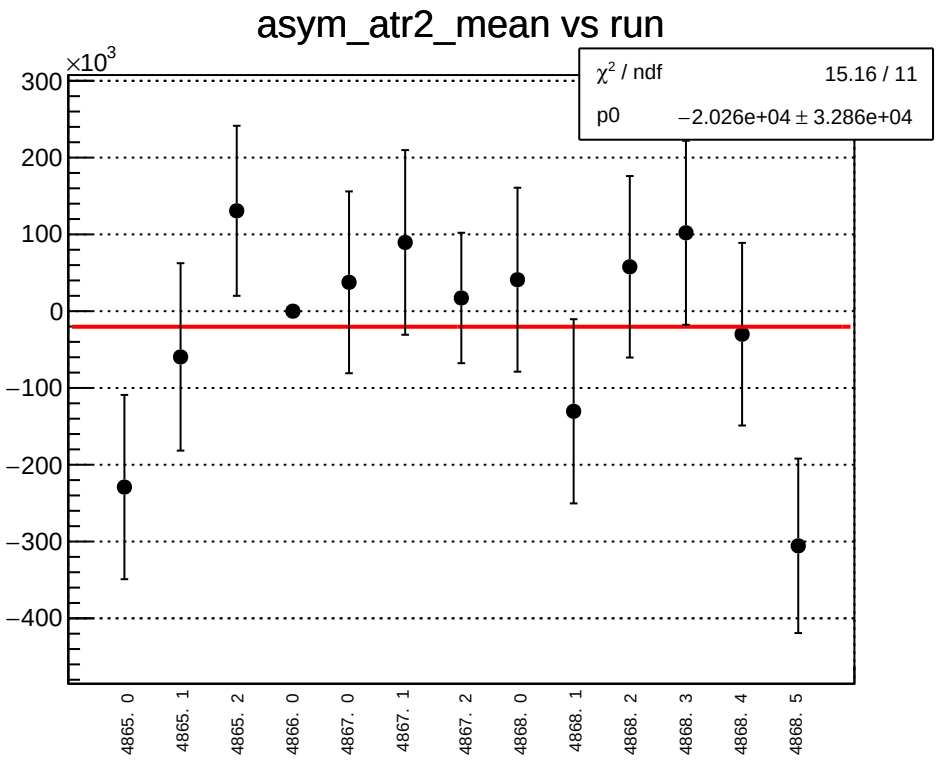

pull1D
Entries 13
Mean −0.01373
Std Dev 1.112
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

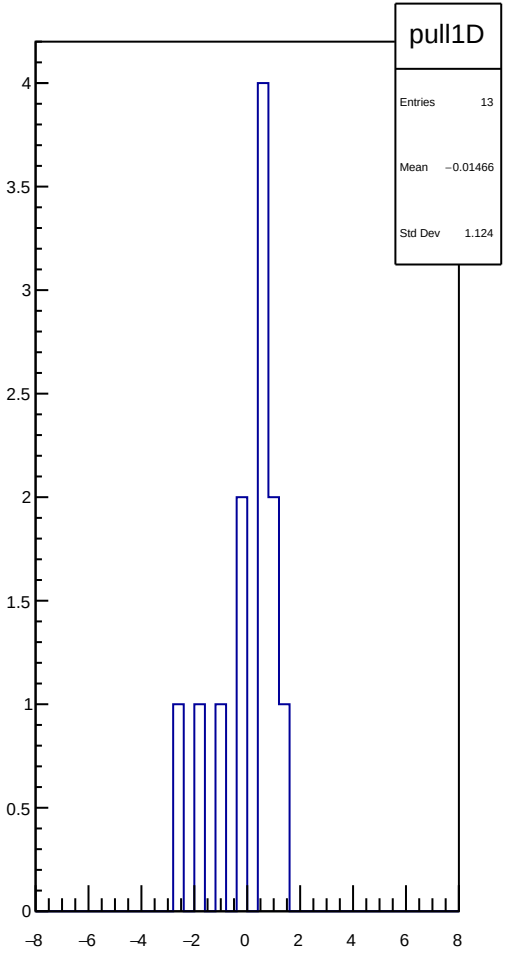

reg_asym_atr2_rms vs run
χ² / ndf 19.45 / 11
p0 1.136e+04 ± 23.2
12000
10000
8000
6000
4000
2000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

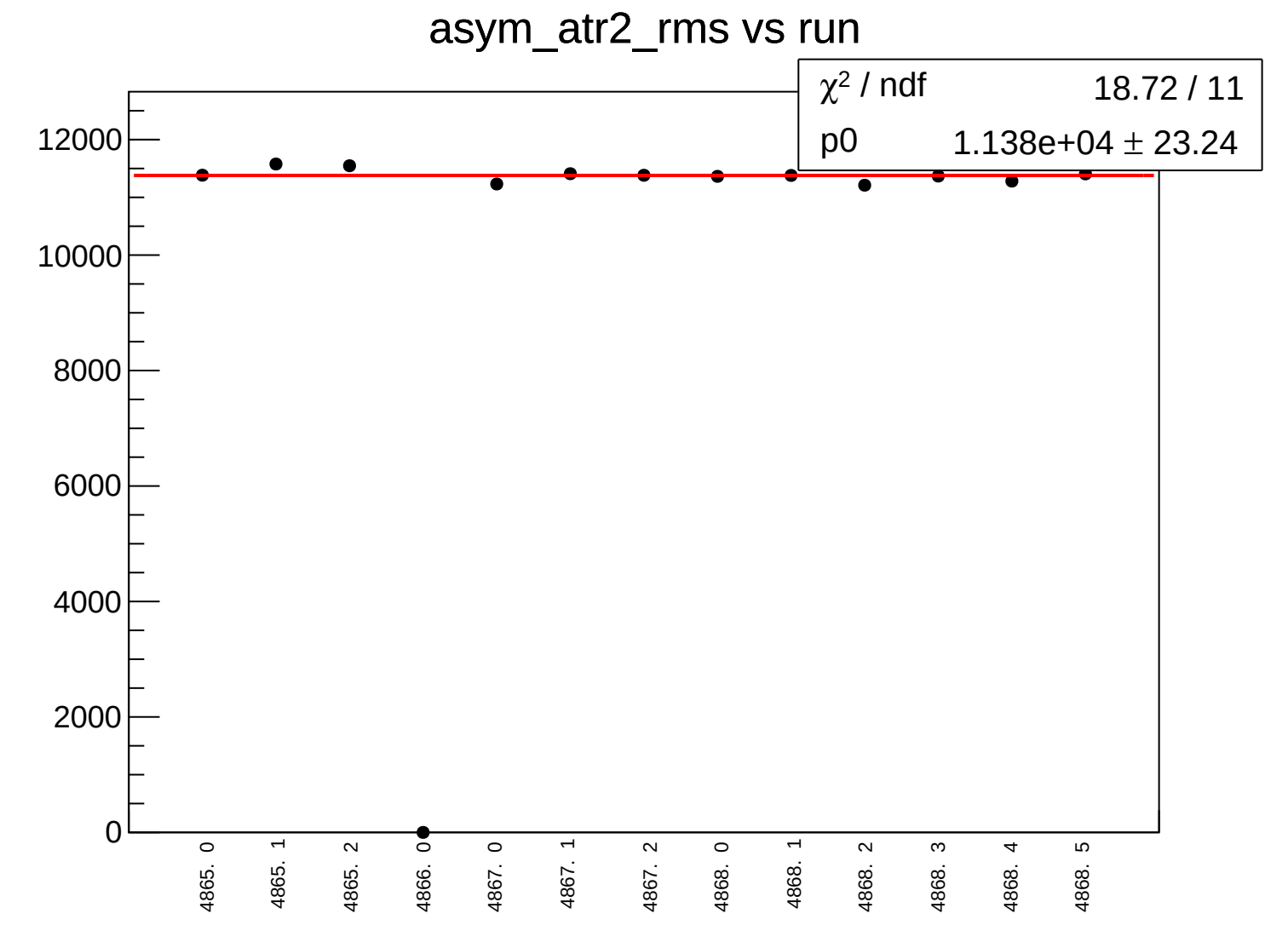

asym_atr2_correction_mean vs run
χ² / ndf 6.513 / 11
p0 1655 ± 1686
20000
15000
10000
5000
0
−5000
−10000
−15000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

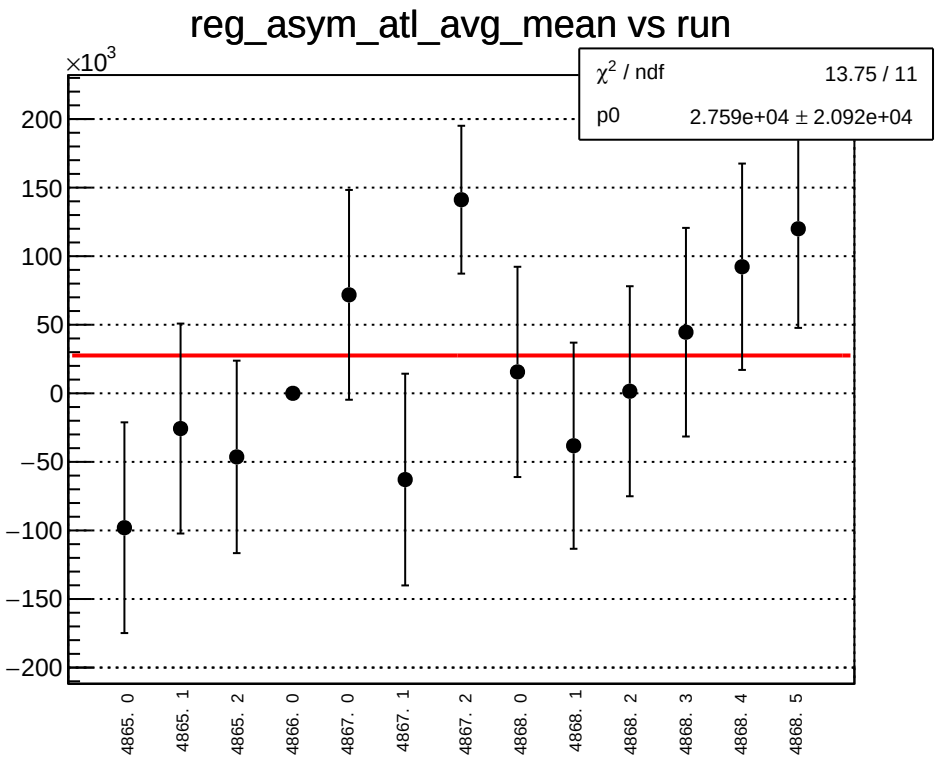

pull1D
Entries 13
Mean −0.01965
Std Dev 0.7365
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

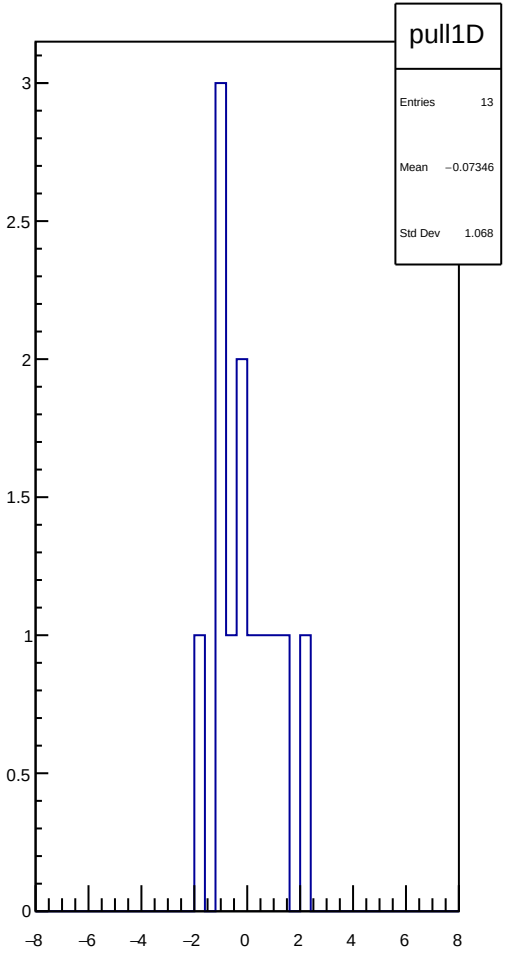

asym_atr2_correction_rms vs run
χ^2 / ndf 9295 / 11
p0 572.5 ± 1.192
800
700
600
500
400
300
200
100
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

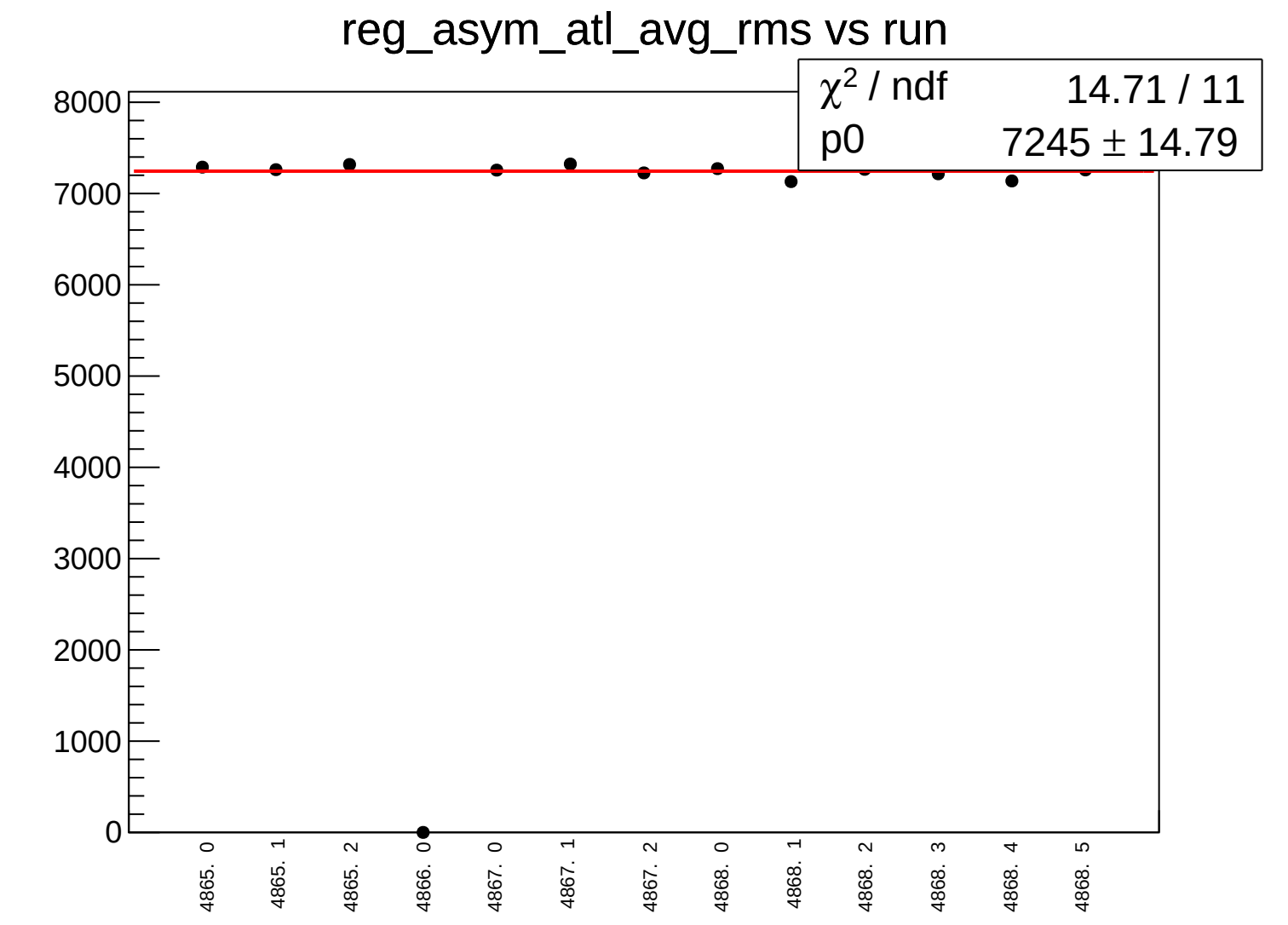

asym_atr2_mean vs run
×10^3
χ² / ndf 15.16 / 11
p0 −2.026e+04 ± 3.286e+04
300
200
100
0
−100
−200
−300
−400
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

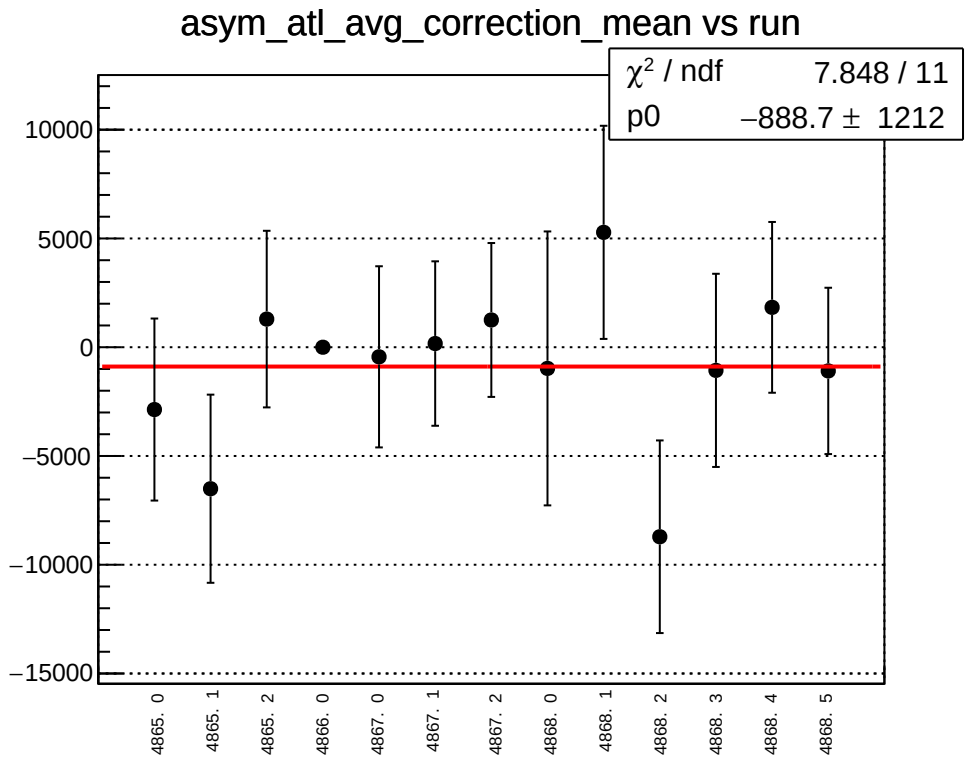

pull1D
Entries 13
Mean −0.01466
Std Dev 1.124
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

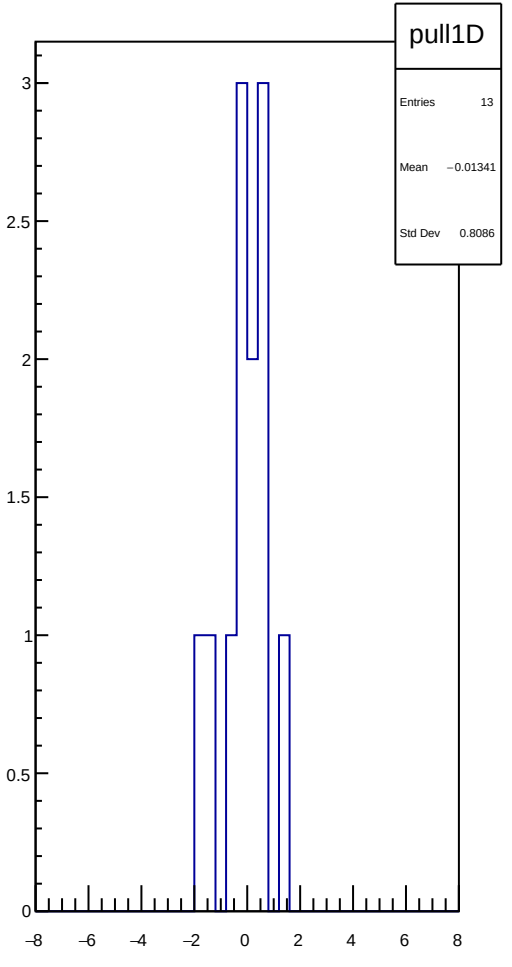

asym_atr2_rms vs run
χ² / ndf 18.72 / 11
p0 1.138e+04 ± 23.24
12000
10000
8000
6000
4000
2000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

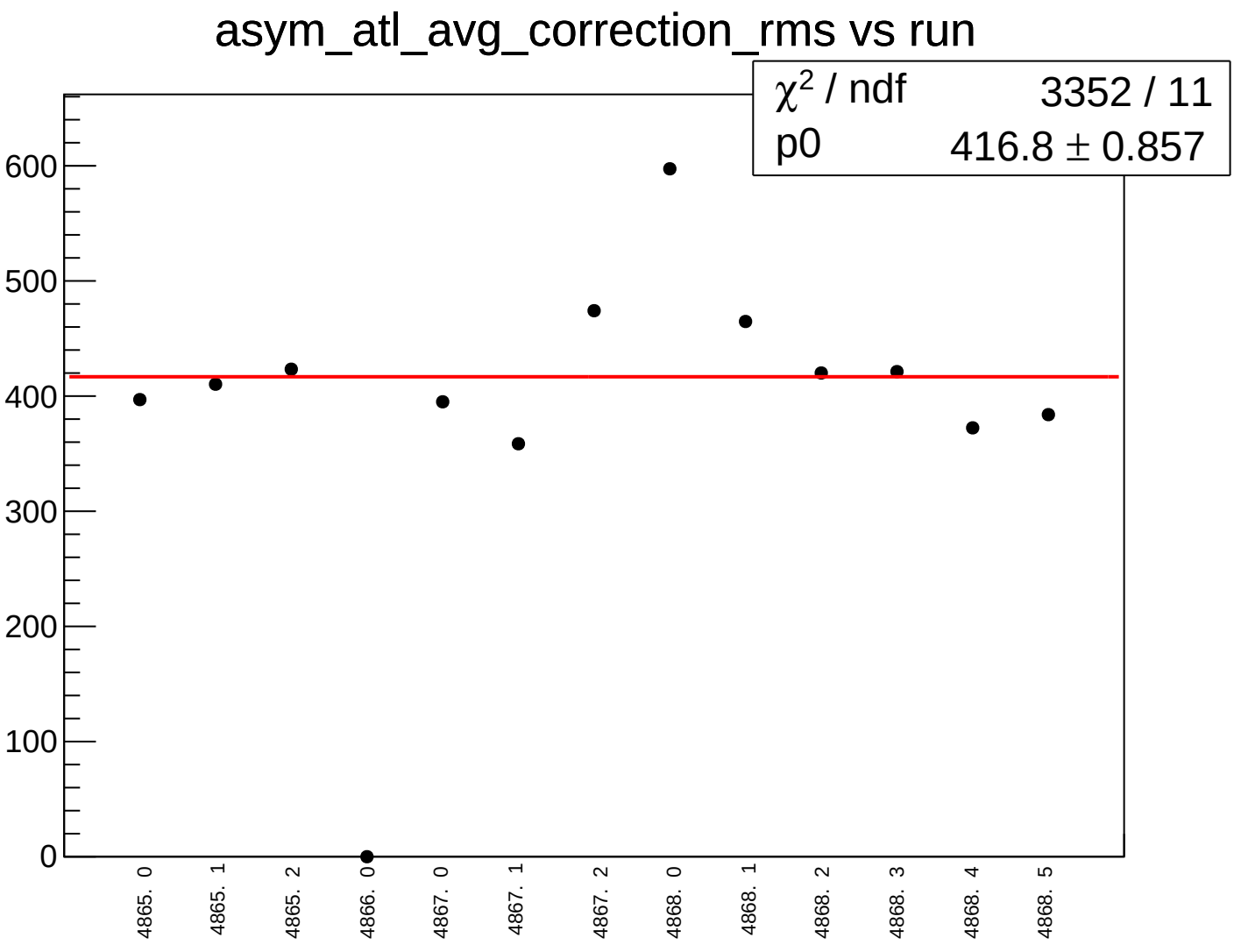

reg_asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 13.75 / 11
p0 2.759e+04 ± 2.092e+04
200
150
100
50
0
−50
−100
−150
−200
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

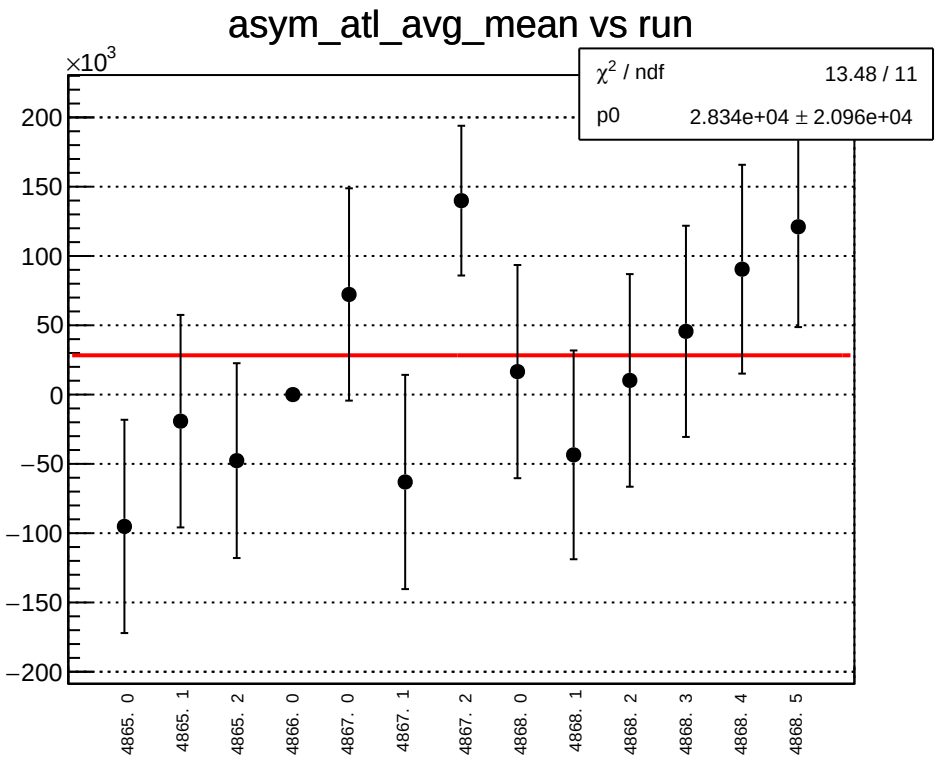

pull1D
Entries 13
Mean −0.07346
Std Dev 1.068
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

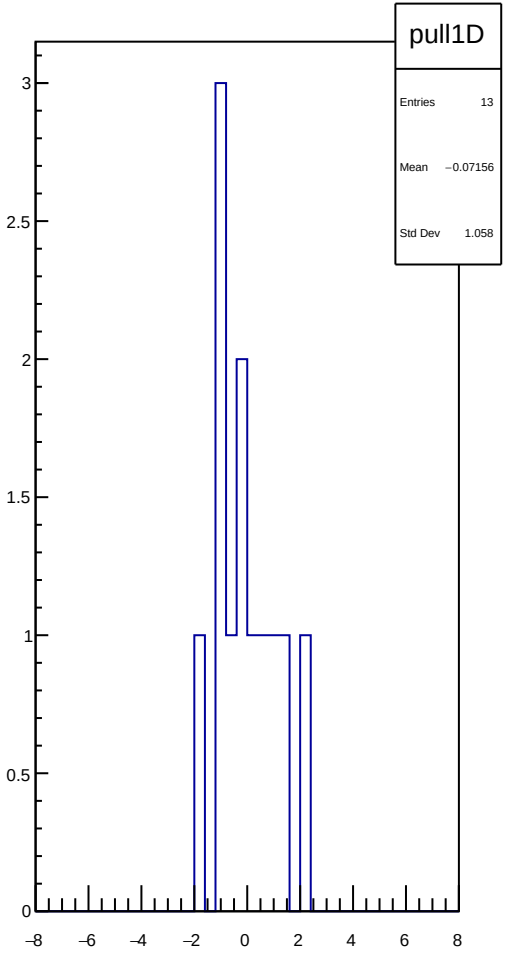

reg_asym_atl_avg_rms vs run
χ² / ndf 14.71 / 11
p0 7245 ± 14.79
8000
7000
6000
5000
4000
3000
2000
1000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

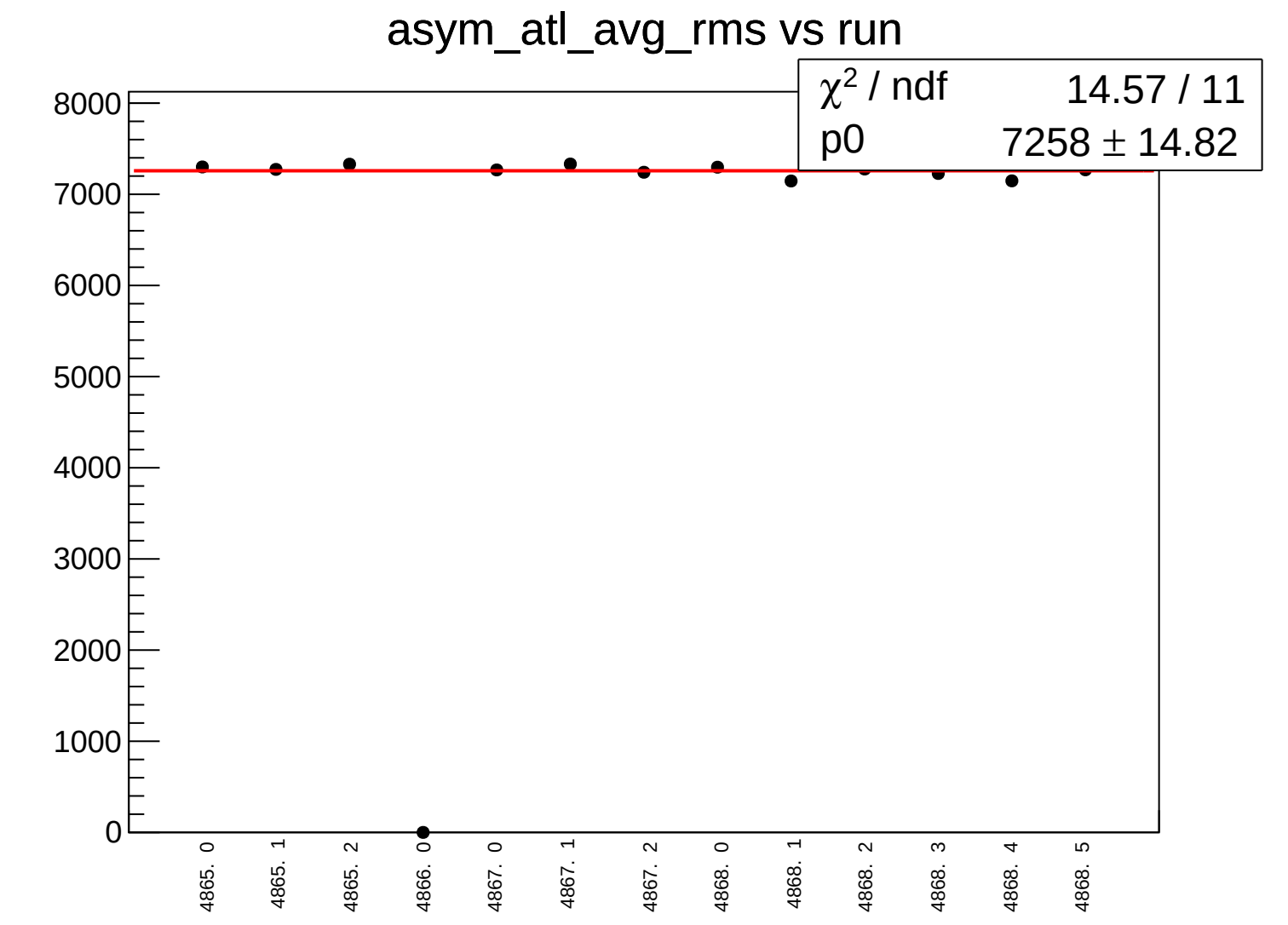

asym_atl_avg_correction_mean vs run
χ² / ndf 7.848 / 11
p0 −888.7 ± 1212
10000
5000
0
−5000
−10000
−15000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

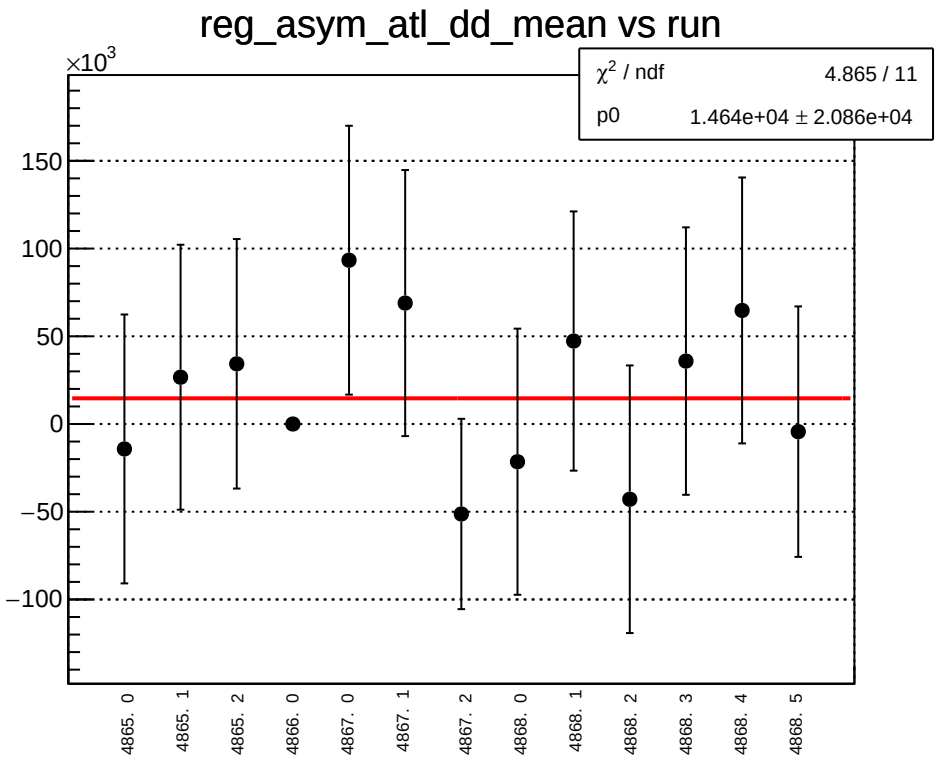

pull1D
Entries 13
Mean −0.01341
Std Dev 0.8086
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

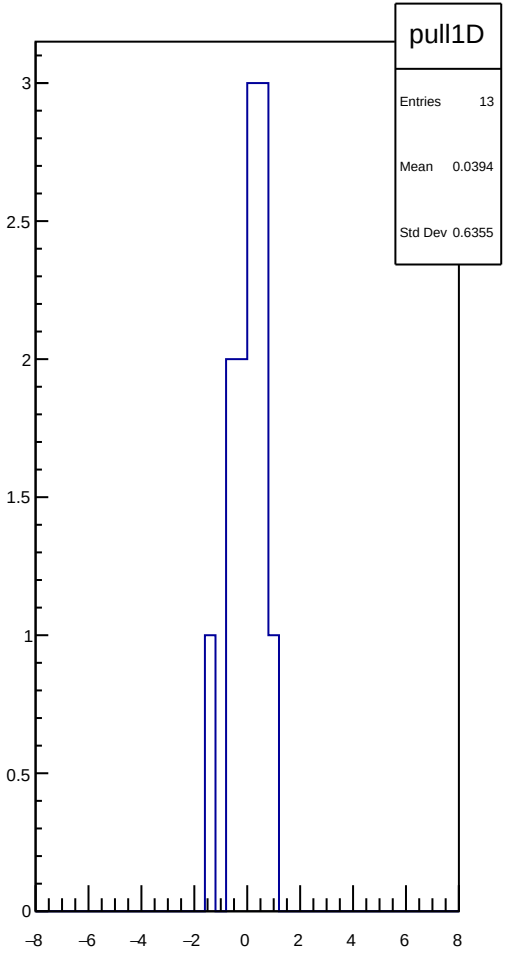

asym_atl_avg_correction_rms vs run
χ² / ndf 3352 / 11
p0 416.8 ± 0.857
600
500
400
300
200
100
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_atl_avg_mean vs run
×10^3
χ² / ndf 13.48 / 11
p0 2.834e+04 ± 2.096e+04
200
150
100
50
0
−50
−100
−150
−200
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.07156
Std Dev 1.058
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_rms vs run
χ² / ndf 14.57 / 11
p0 7258 ± 14.82
8000
7000
6000
5000
4000
3000
2000
1000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


reg_asym_atl_dd_mean vs run
×10^3
χ² / ndf 4.865 / 11
p0 1.464e+04 ± 2.086e+04
150
100
50
0
−50
−100
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.0394
Std Dev 0.6355
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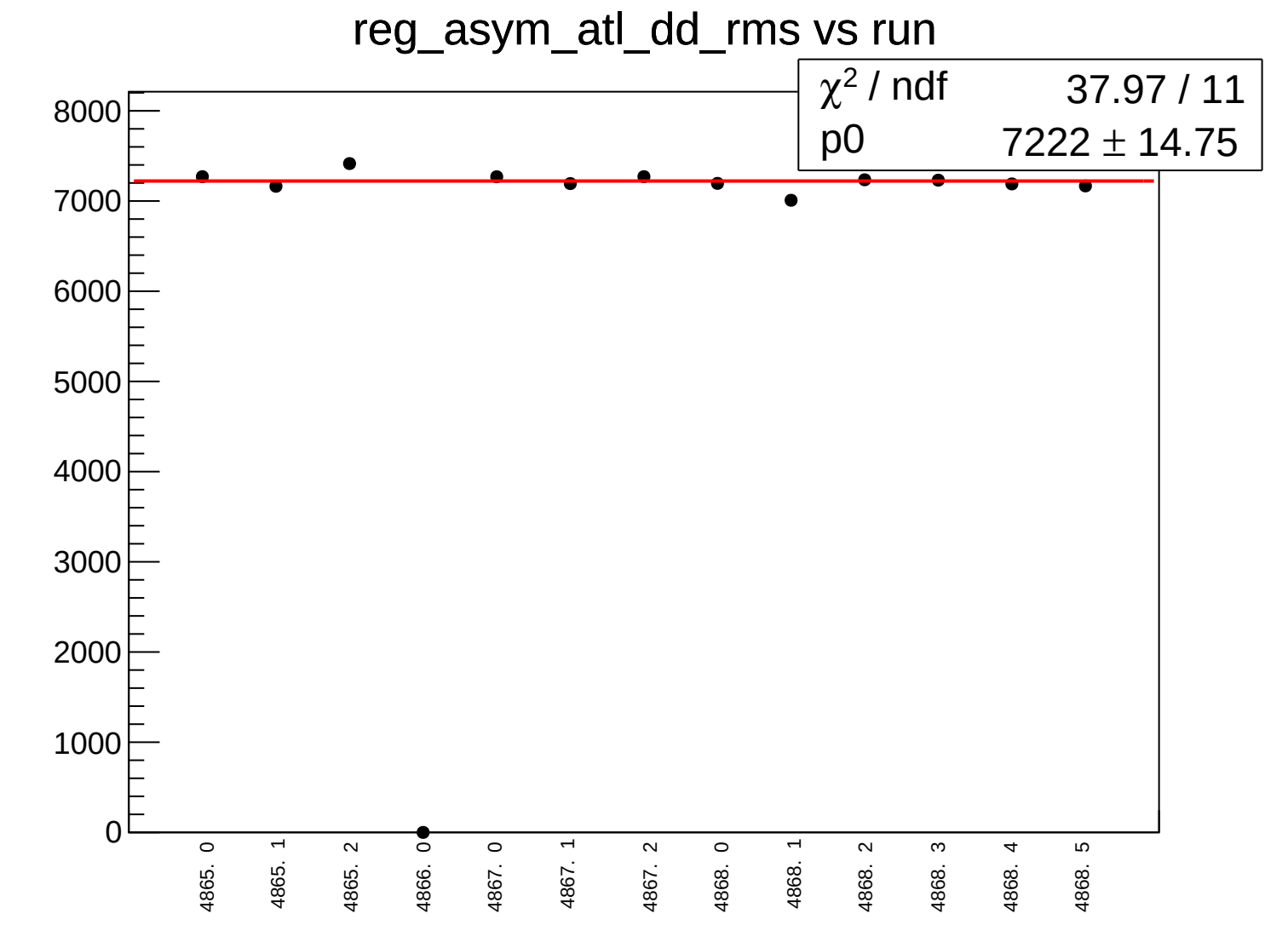
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_rms vs run
χ² / ndf 37.97 / 11
p0 7222 ± 14.75
8000
7000
6000
5000
4000
3000
2000
1000
0
4865. 0
4865. 1
4865. 2
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4867. 0
4867. 1
4867. 2
4868. 0
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4868. 2
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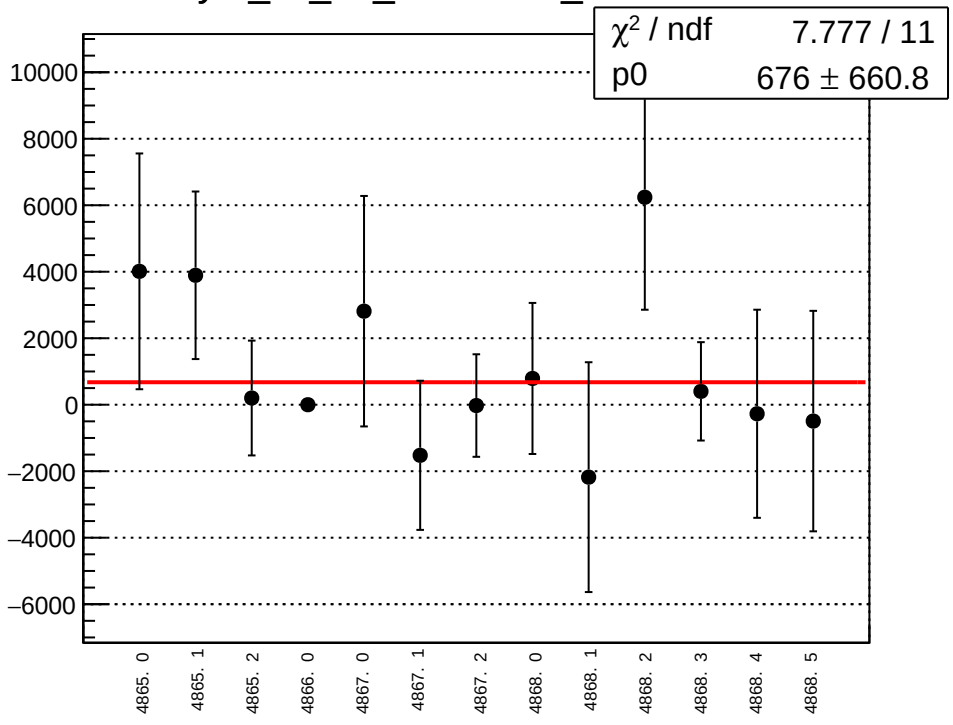
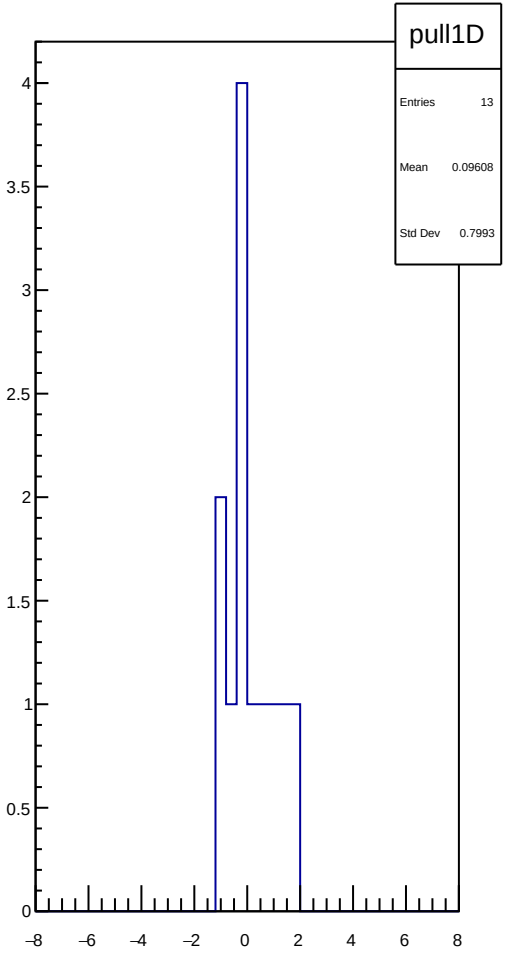
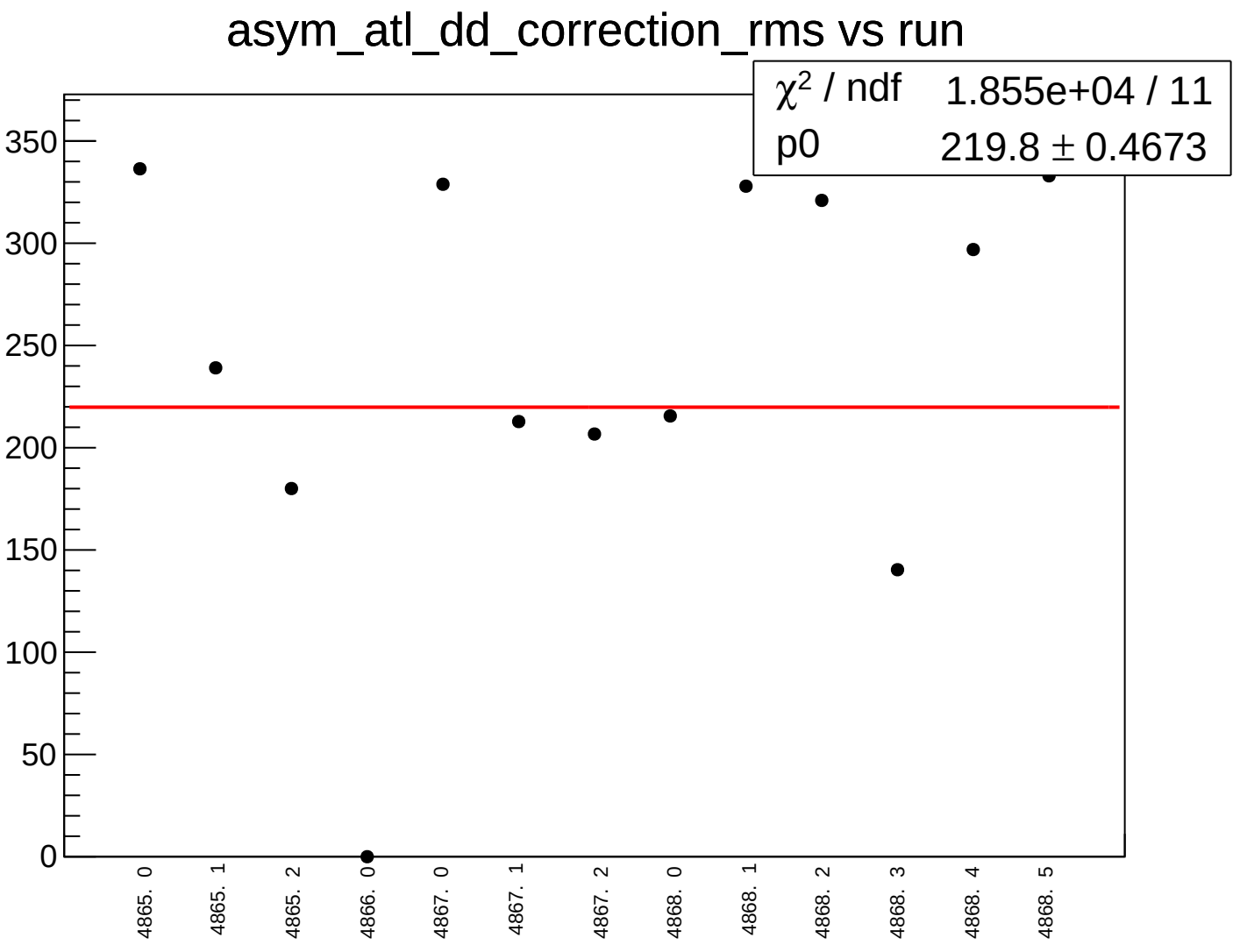
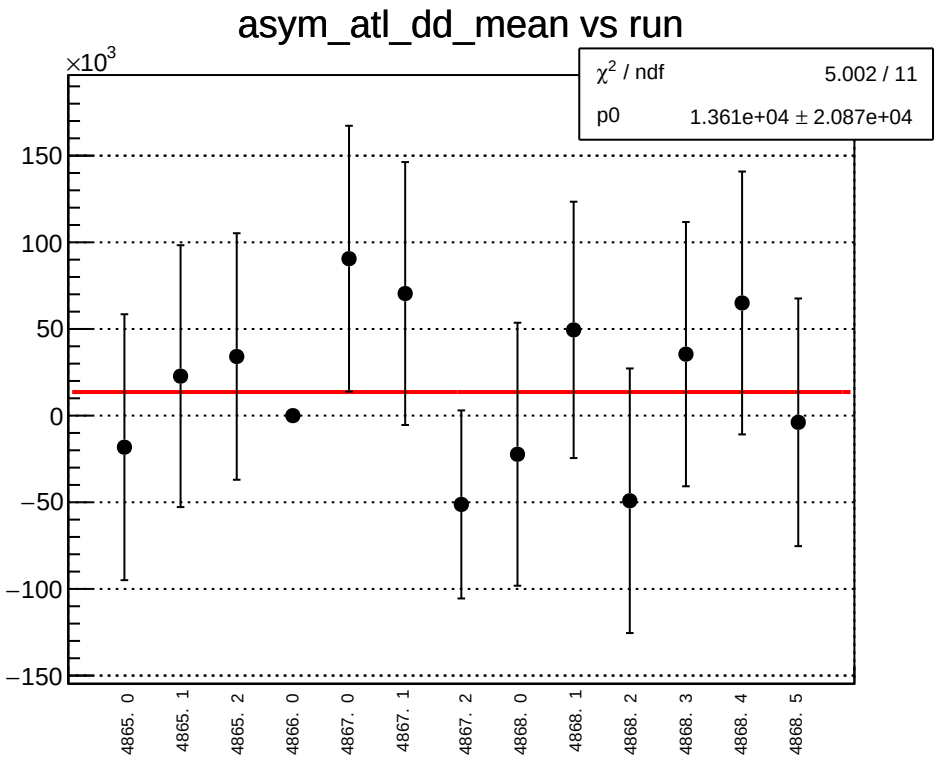
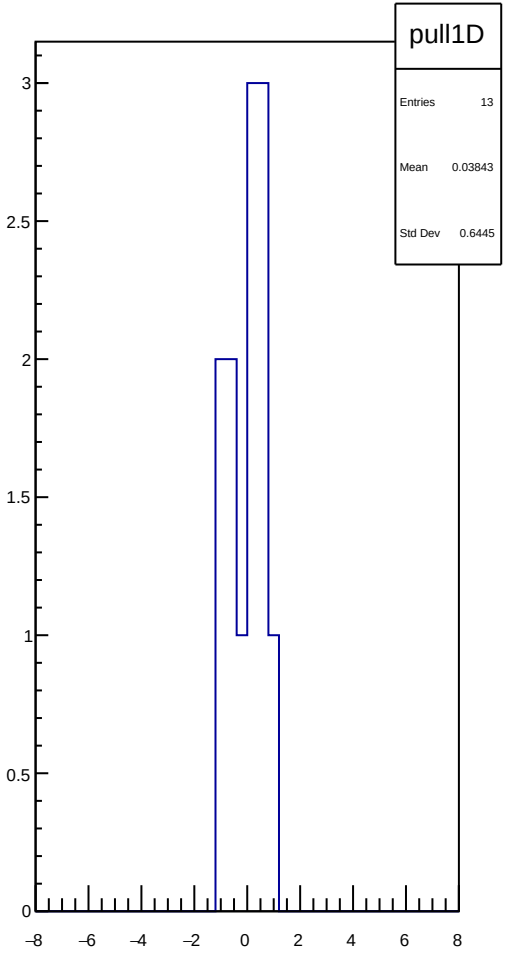
4868. 4
4868. 5


asym_atl_dd_correction_mean vs run
χ² / ndf 7.777 / 11
p0 676 ± 660.8
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.09608
Std Dev 0.7993
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_correction_rms vs run
χ² / ndf 1.855e+04 / 11
p0 219.8 ± 0.4673
350
300
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_atl_dd_mean vs run
×10^3
χ² / ndf 5.002 / 11
p0 1.361e+04 ± 2.087e+04
150
100
50
0
−50
−100
−150
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.03843
Std Dev 0.6445
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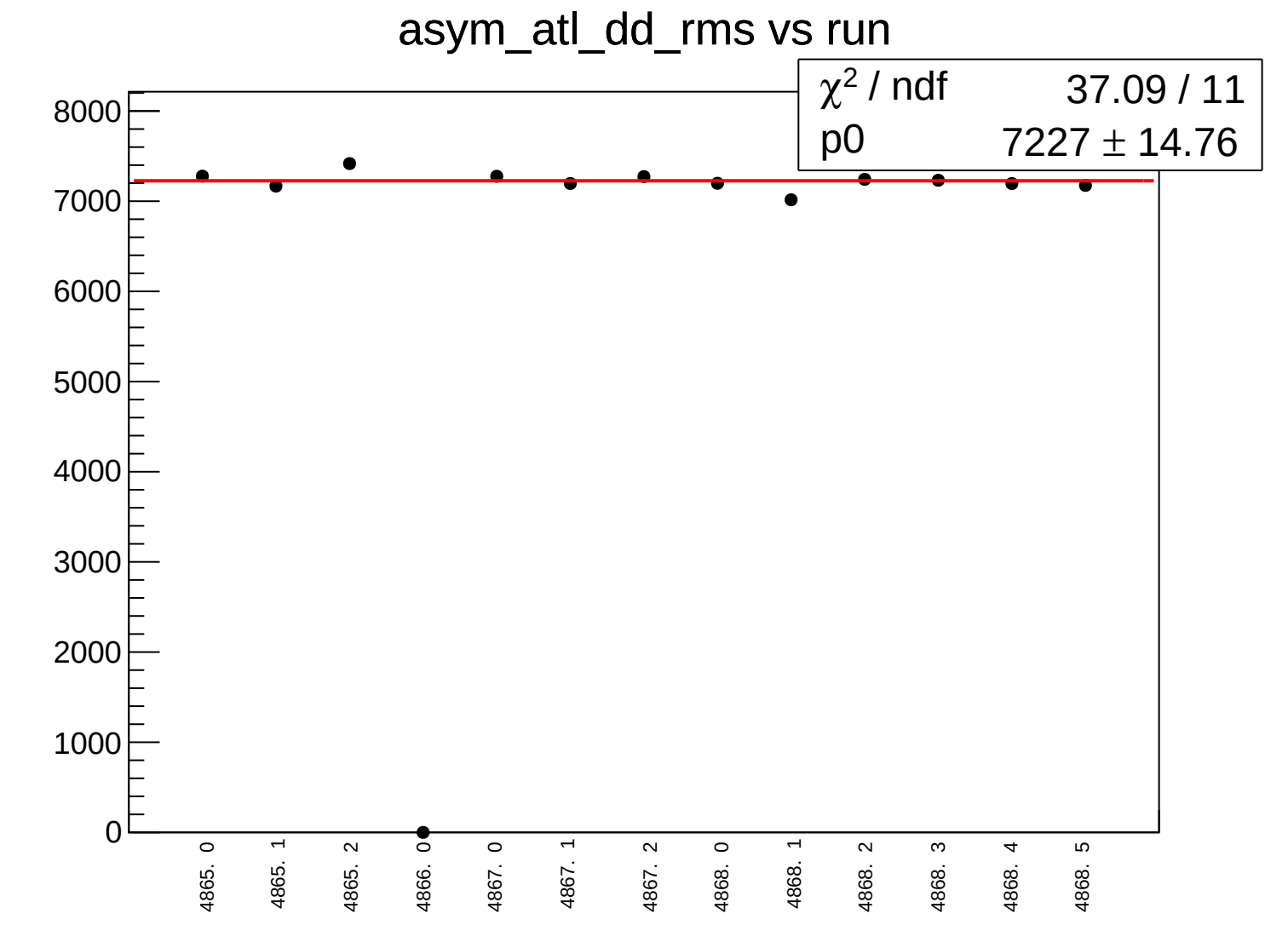
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_rms vs run
χ² / ndf 37.09 / 11
p0 7227 ± 14.76
8000
7000
6000
5000
4000
3000
2000
1000
0
4865. 0
4865. 1
4865. 2
4866. 0
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4867. 1
4867. 2
4868. 0
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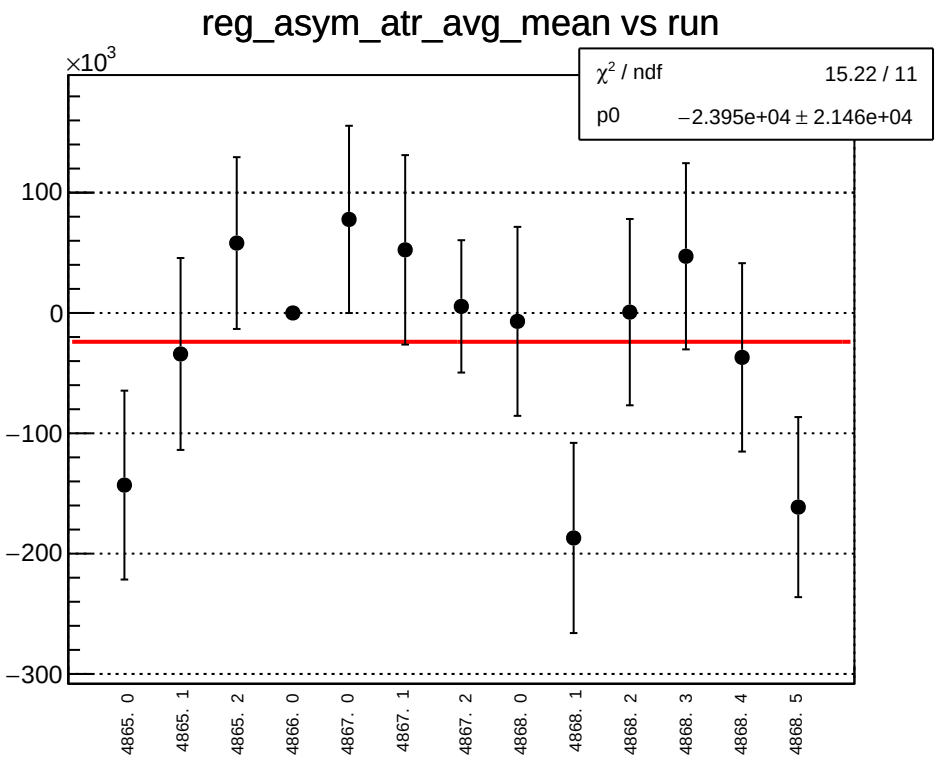
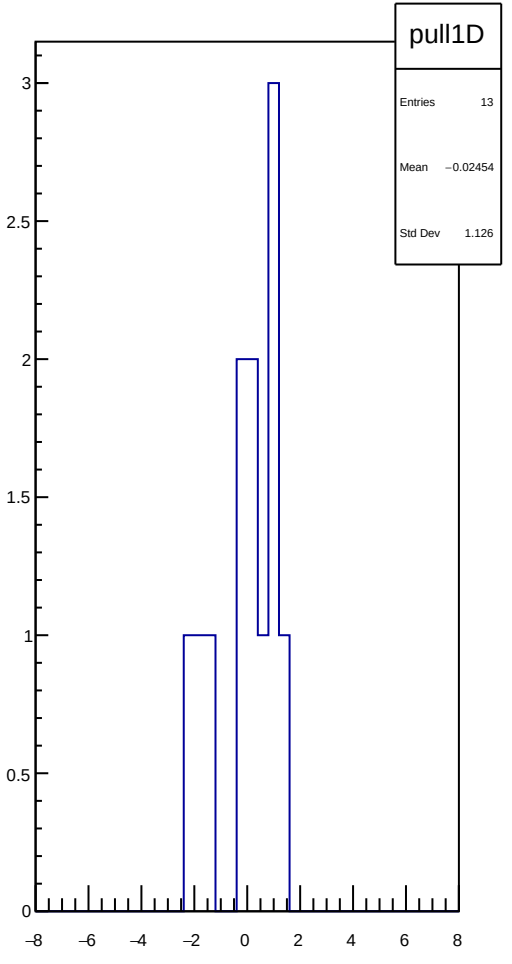
4868. 2
4868. 3
4868. 4
4868. 5


reg_asym_atr_avg_mean vs run
×10^3
χ² / ndf 15.22 / 11
p0 −2.395e+04 ± 2.146e+04
100
0
−100
−200
−300
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.02454
Std Dev 1.126
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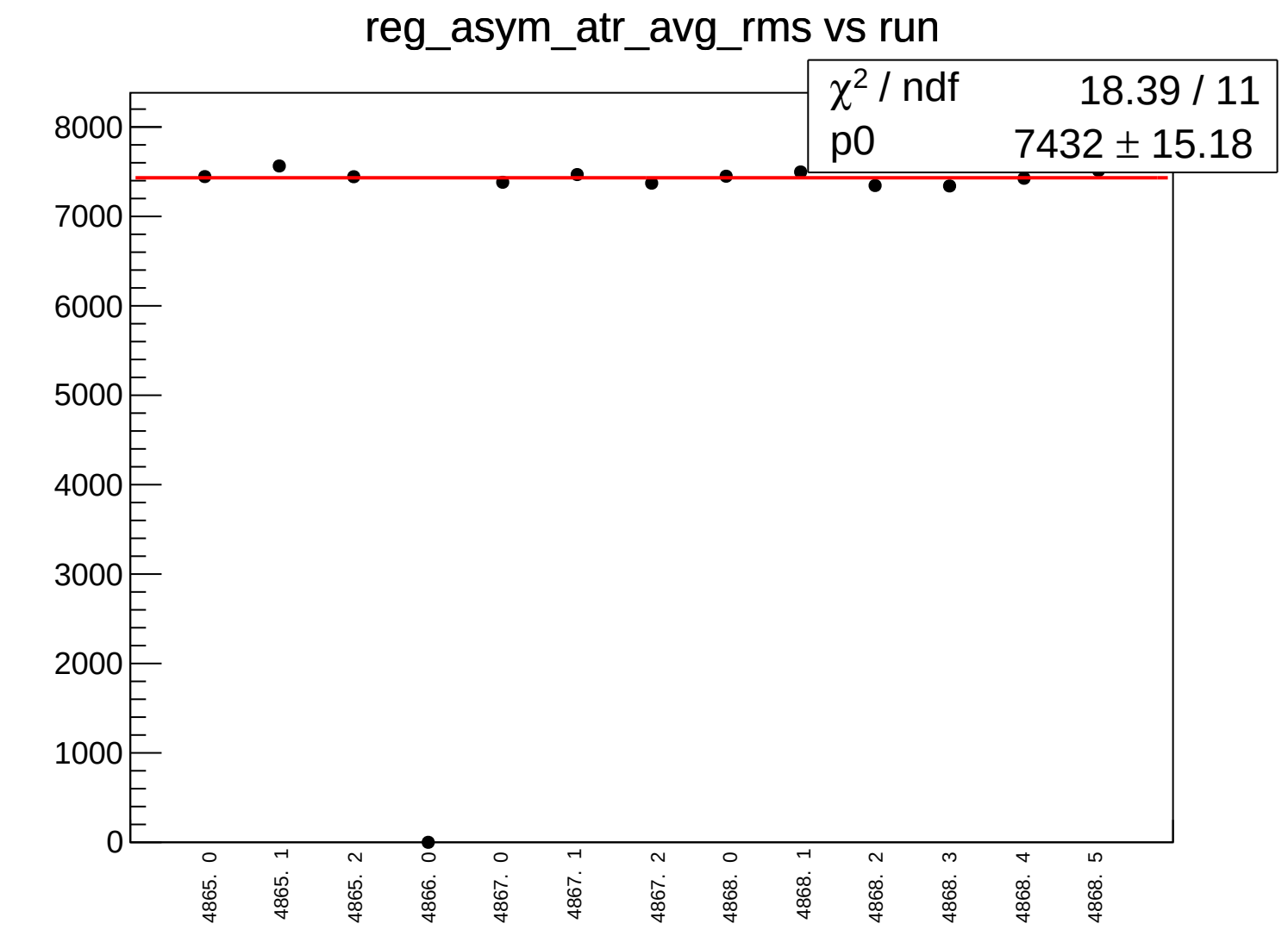
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr_avg_rms vs run
χ² / ndf 18.39 / 11
p0 7432 ± 15.18
8000
7000
6000
5000
4000
3000
2000
1000
0
4865. 0
4865. 1
4865. 2
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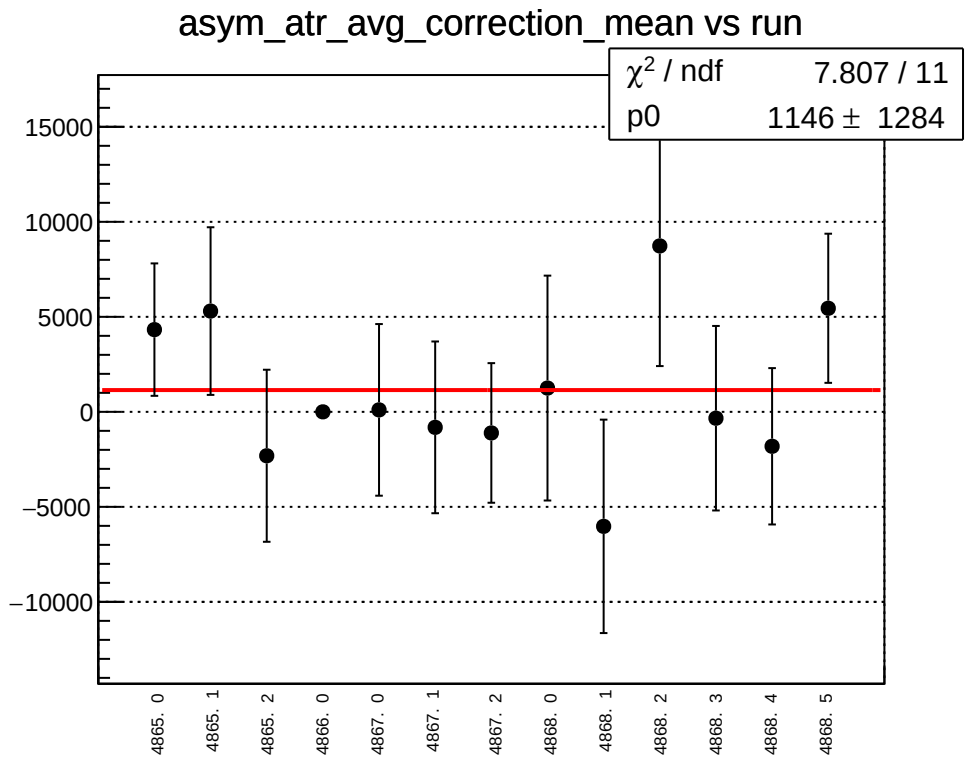
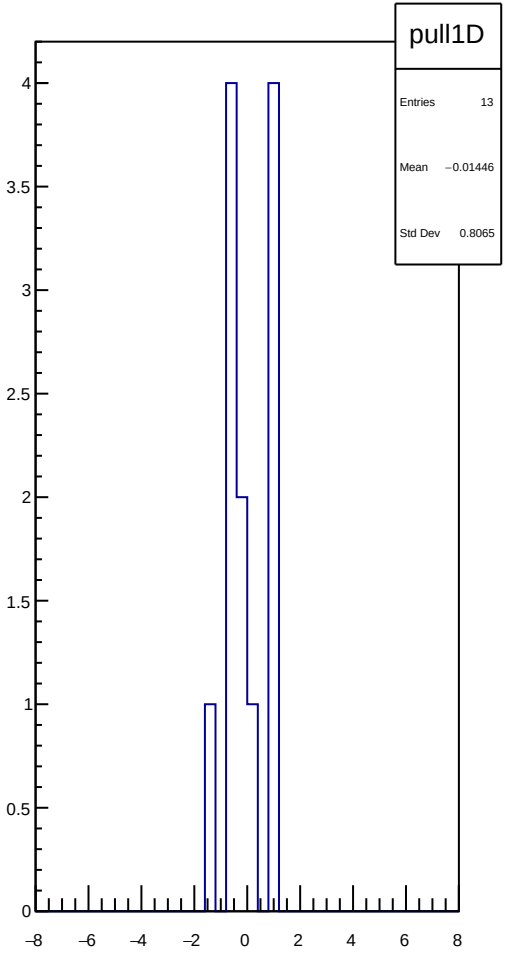
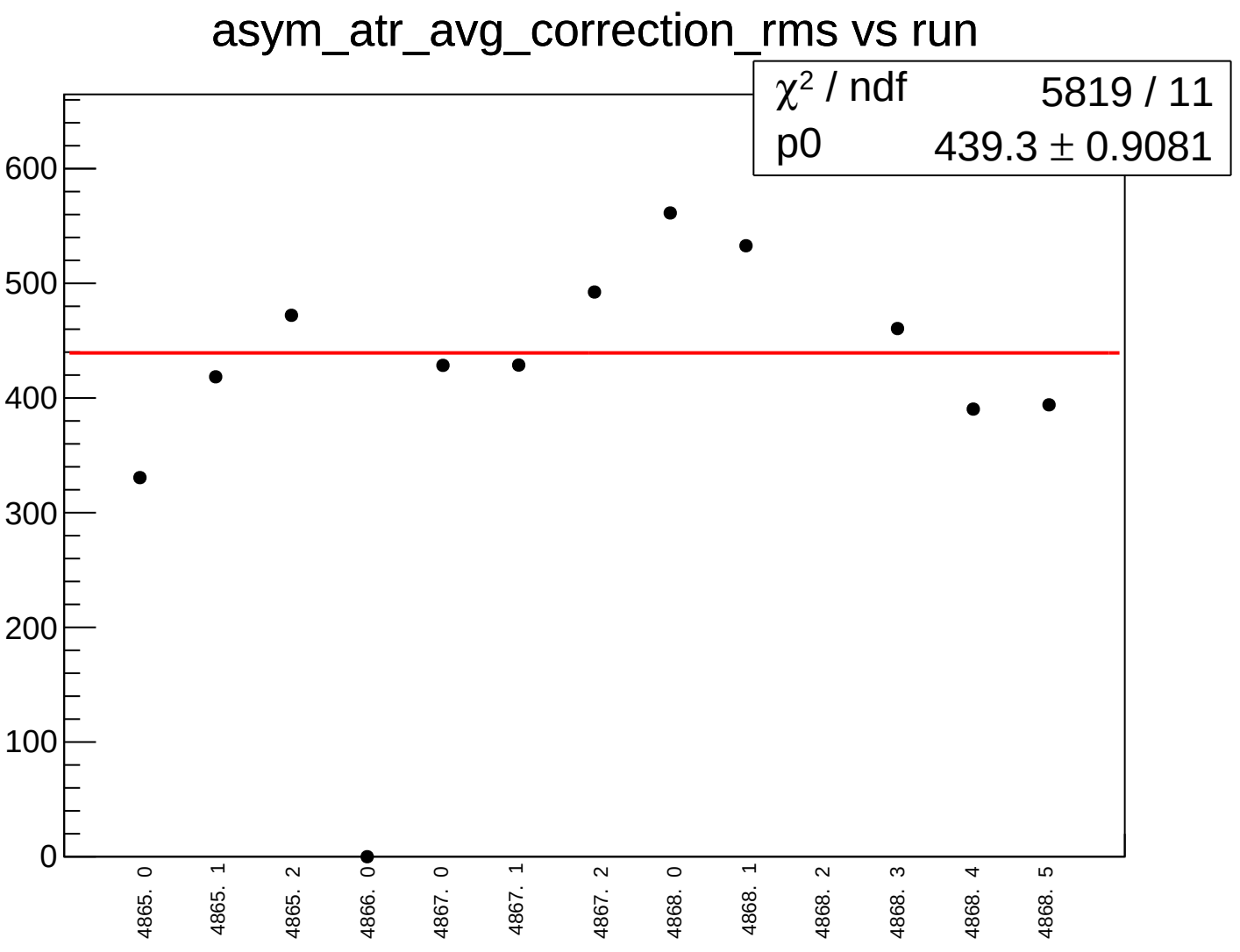
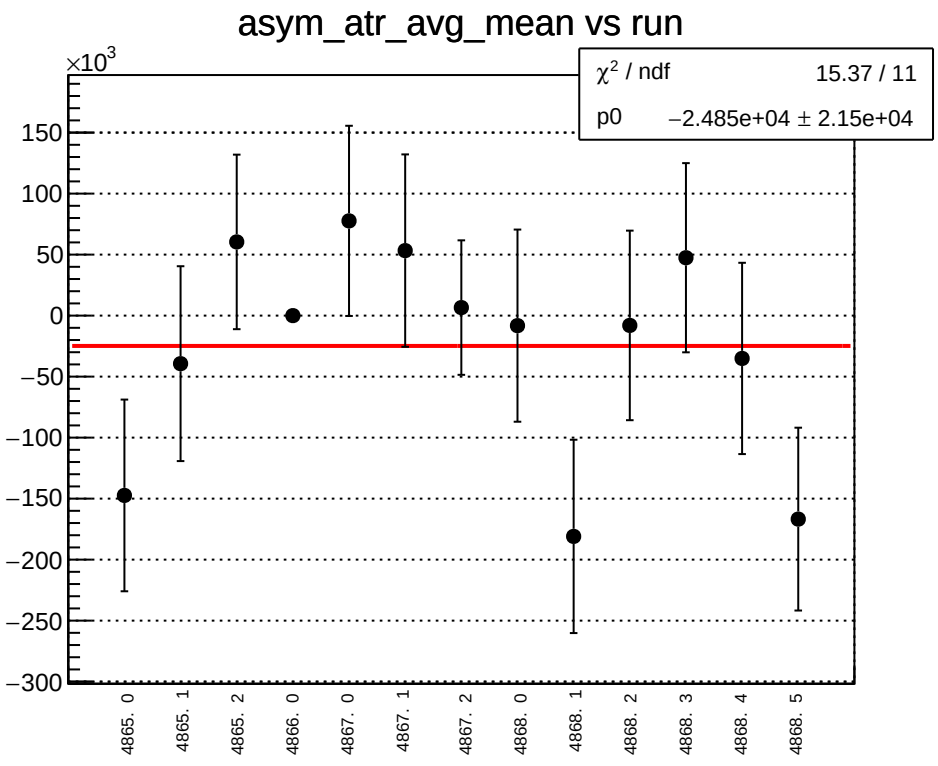
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_atr_avg_correction_mean vs run
χ² / ndf 7.807 / 11
p0 1146 ± 1284
15000
10000
5000
0
−5000
−10000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.01446
Std Dev 0.8065
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_avg_correction_rms vs run
χ² / ndf 5819 / 11
p0 439.3 ± 0.9081
600
500
400
300
200
100
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_atr_avg_mean vs run
×10^3
χ² / ndf 15.37 / 11
p0 −2.485e+04 ± 2.15e+04
150
100
50
0
−50
−100
−150
−200
−250
−300
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
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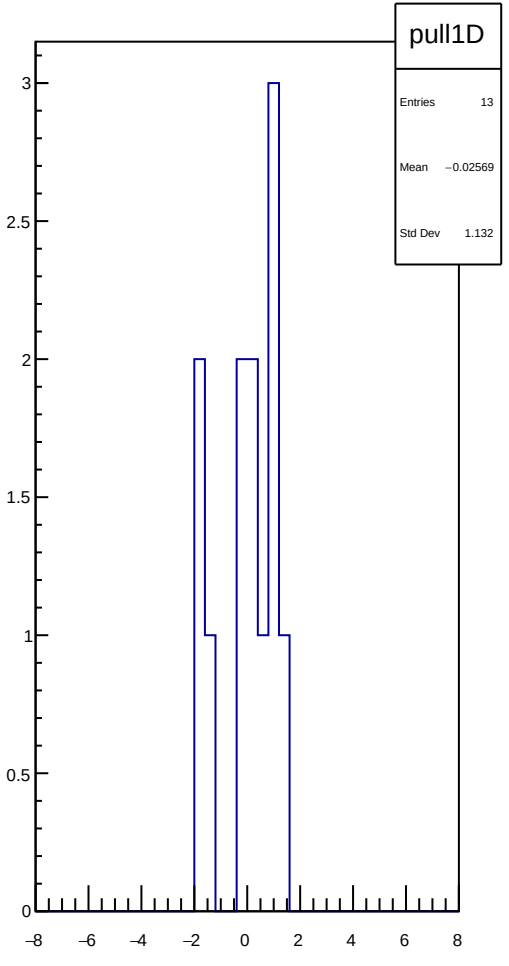
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.02569
Std Dev 1.132
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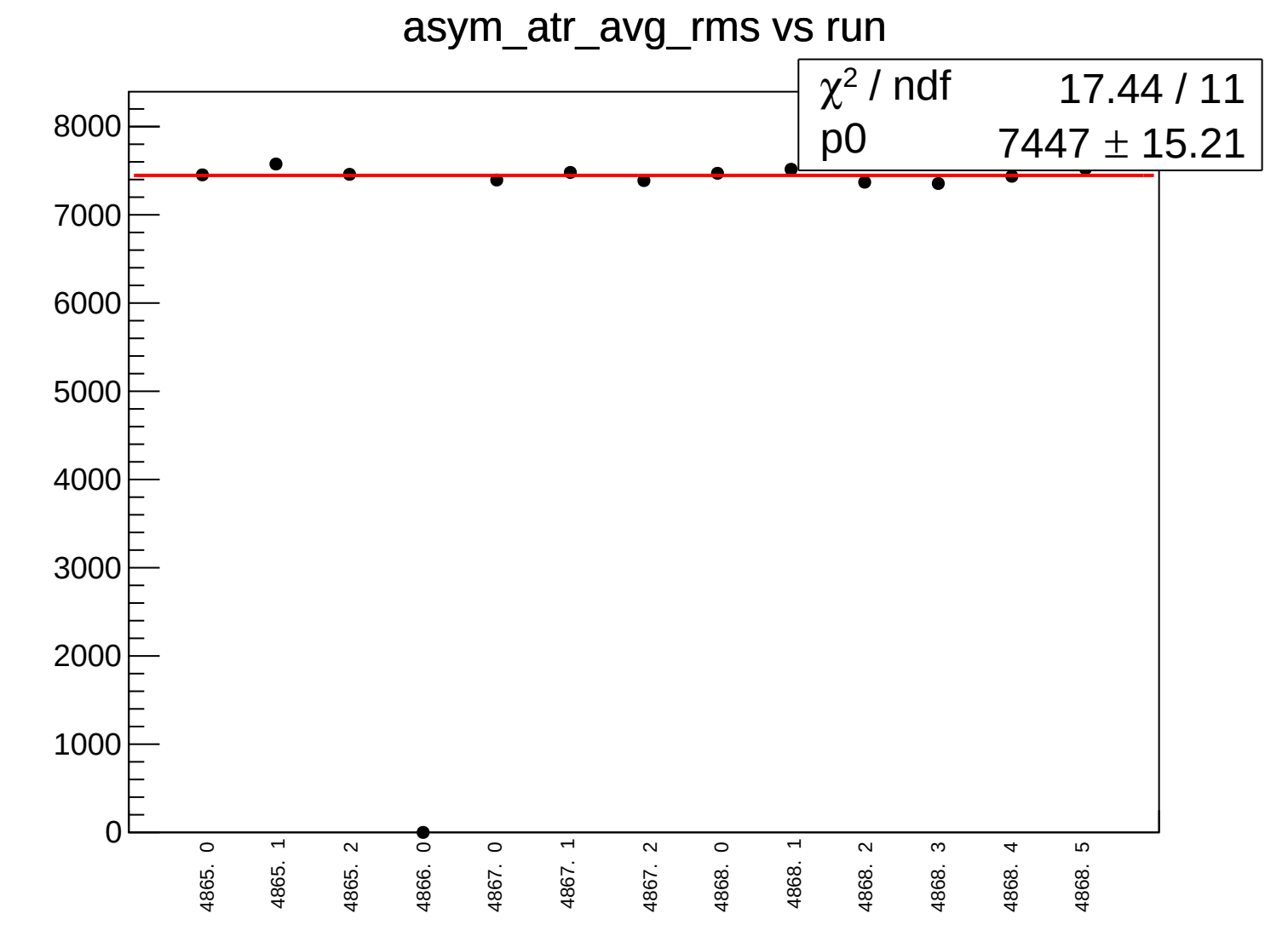
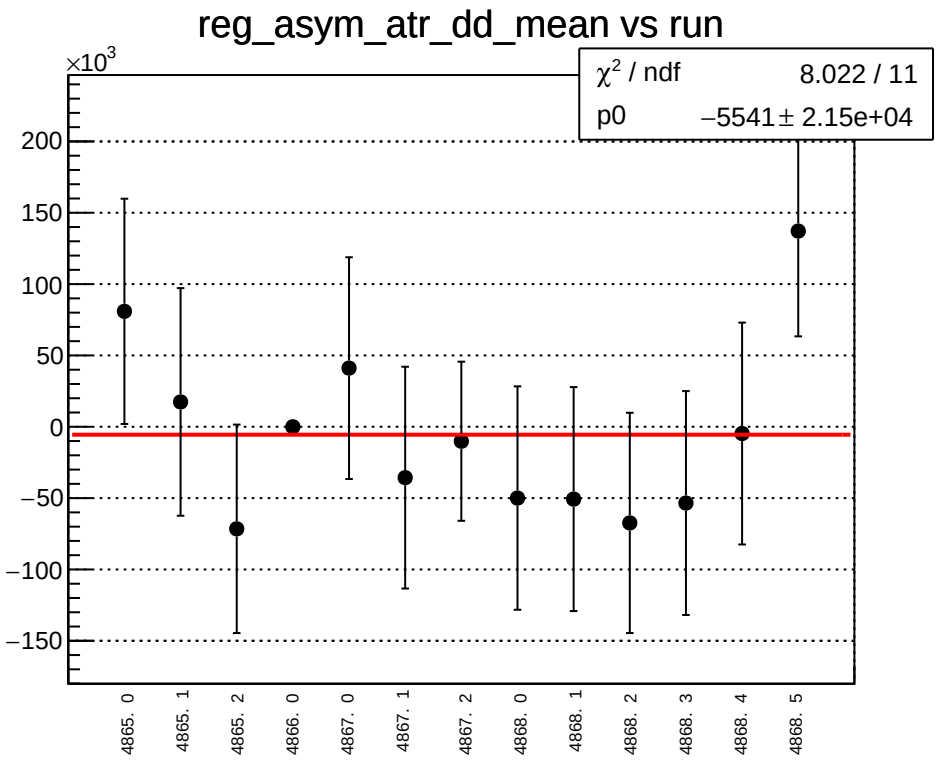
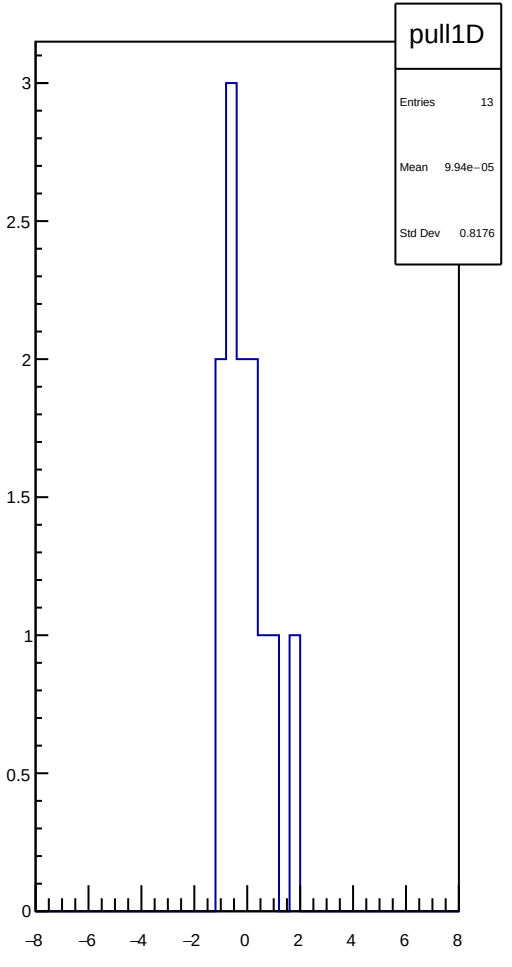
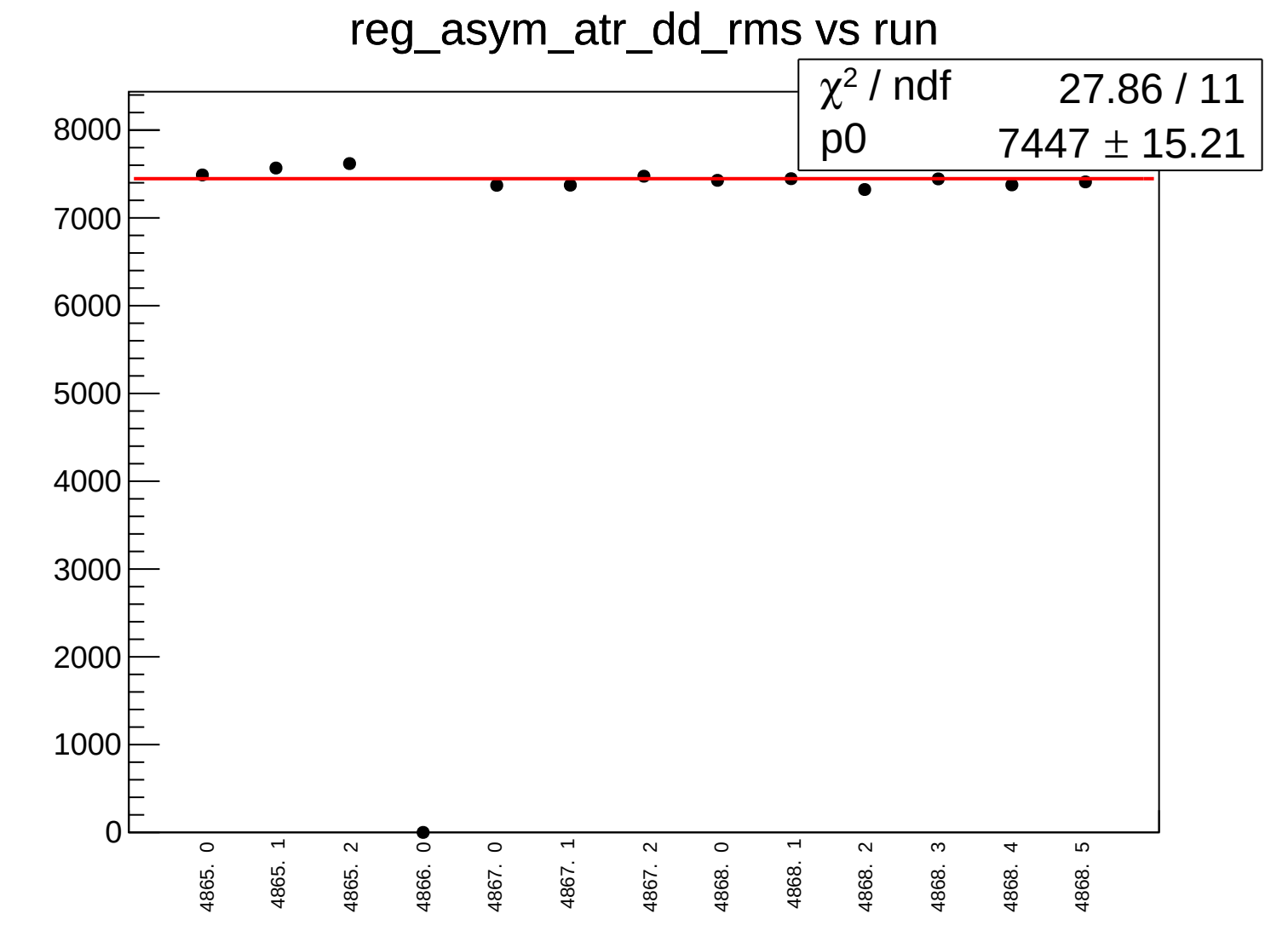
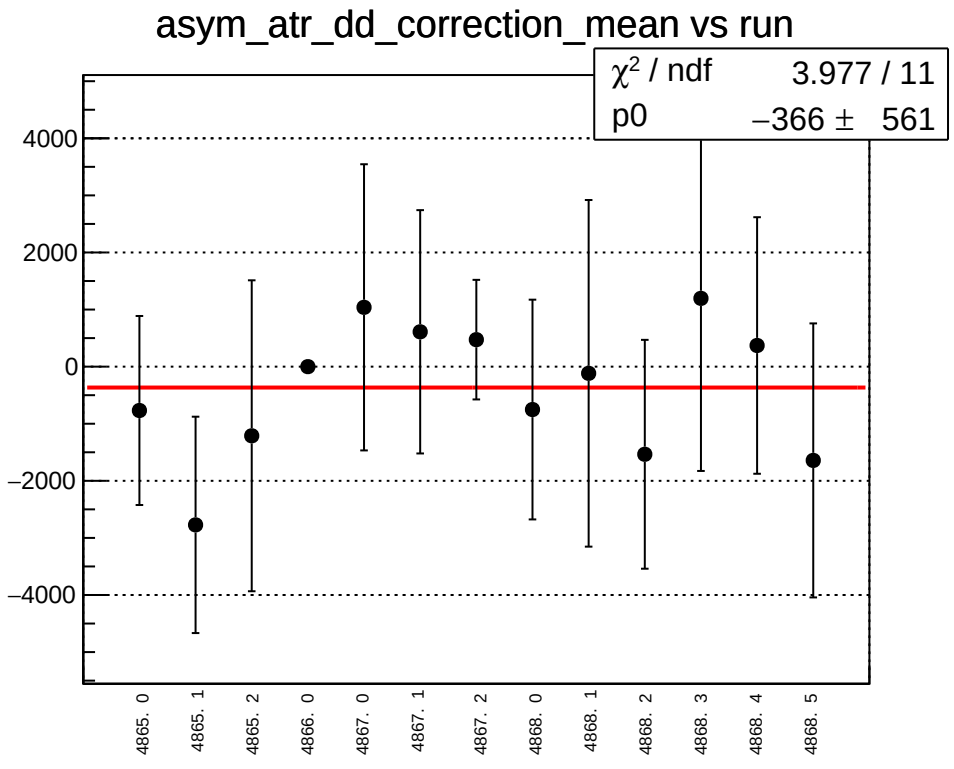
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

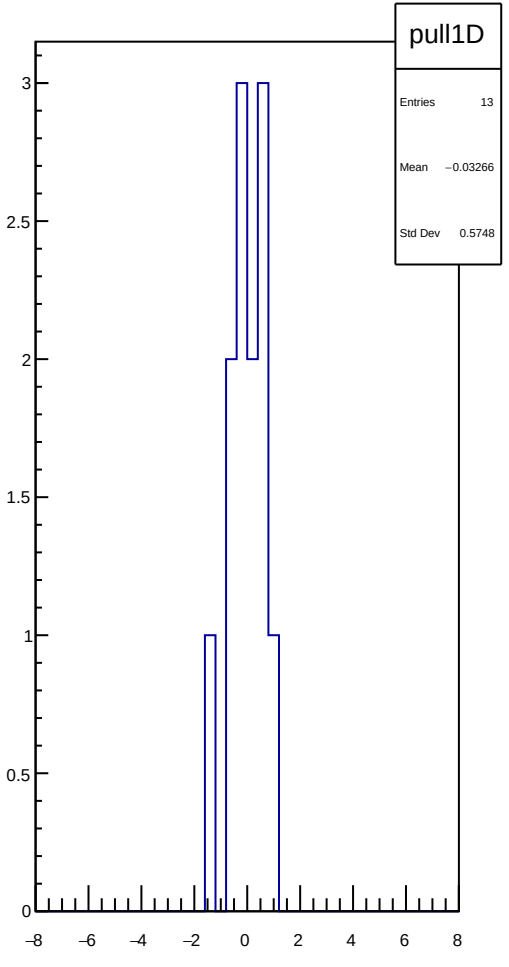

asym_atr_avg_rms vs run
χ² / ndf 17.44 / 11
p0 7447 ± 15.21
8000
7000
6000
5000
4000
3000
2000
1000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


reg_asym_atr_dd_mean vs run
×10^3
χ² / ndf 8.022 / 11
p0 −5541 ± 2.15e+04
200
150
100
50
0
−50
−100
−150
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 9.94e−05
Std Dev 0.8176
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr_dd_rms vs run
χ² / ndf 27.86 / 11
p0 7447 ± 15.21
8000
7000
6000
5000
4000
3000
2000
1000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_atr_dd_correction_mean vs run
χ² / ndf 3.977 / 11
p0 −366 ± 561
4000
2000
0
−2000
−4000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.03266
Std Dev 0.5748
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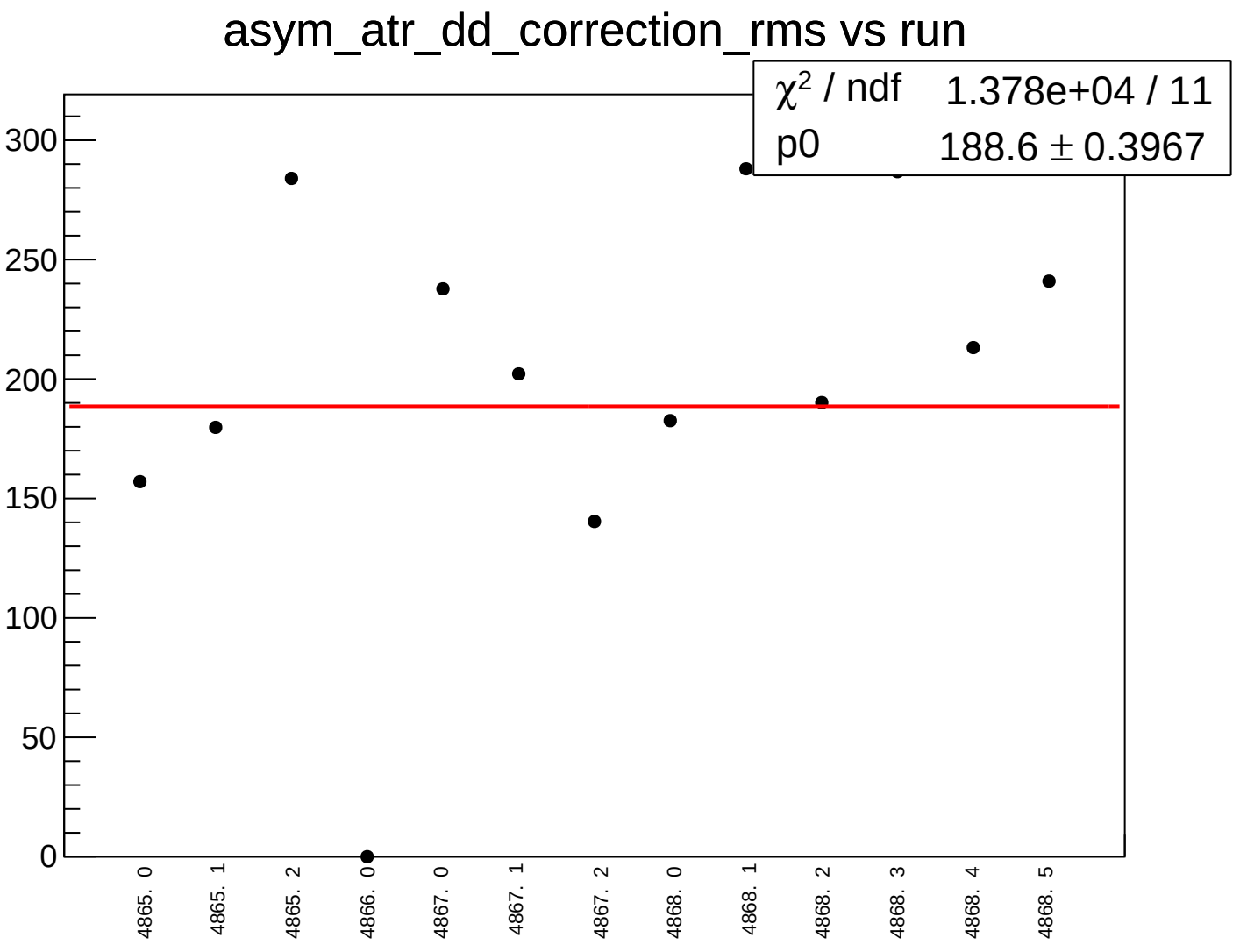
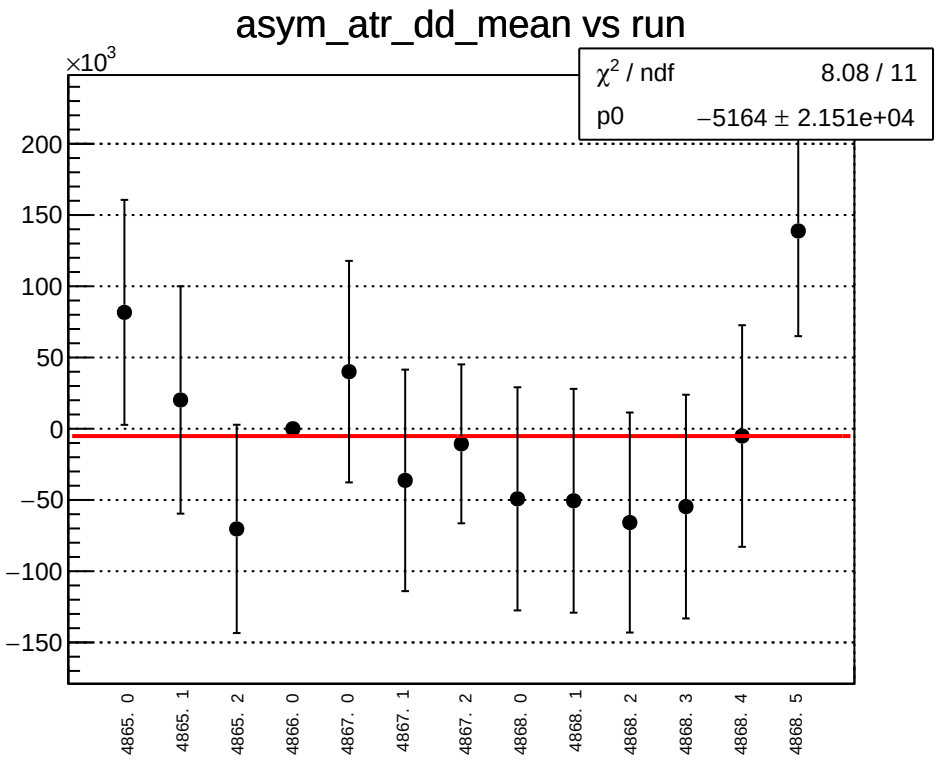
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_dd_correction_rms vs run
χ² / ndf 1.378e+04 / 11
p0 188.6 ± 0.3967
300
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_atr_dd_mean vs run
×10^3
χ² / ndf 8.08 / 11
p0 −5164 ± 2.151e+04
200
150
100
50
0
−50
−100
−150
4865. 0
4865. 1
4865. 2
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4867. 2
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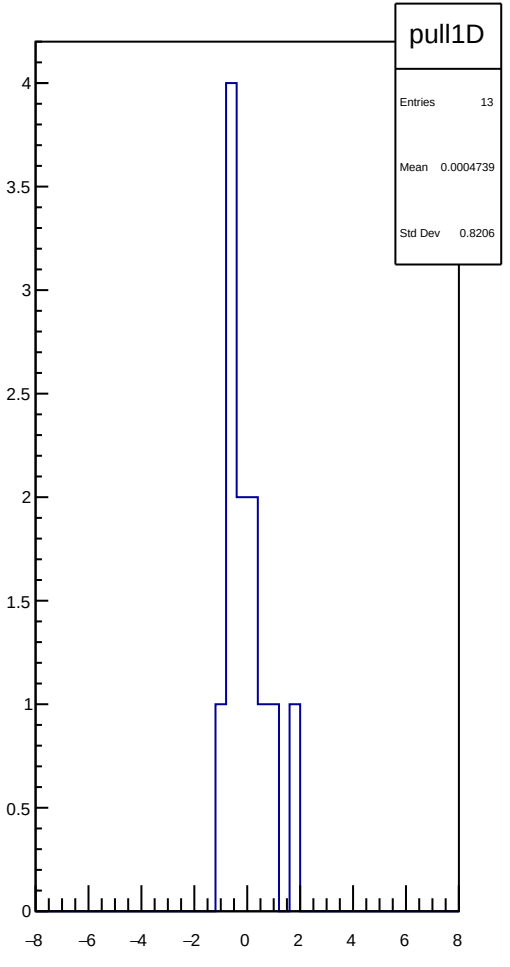
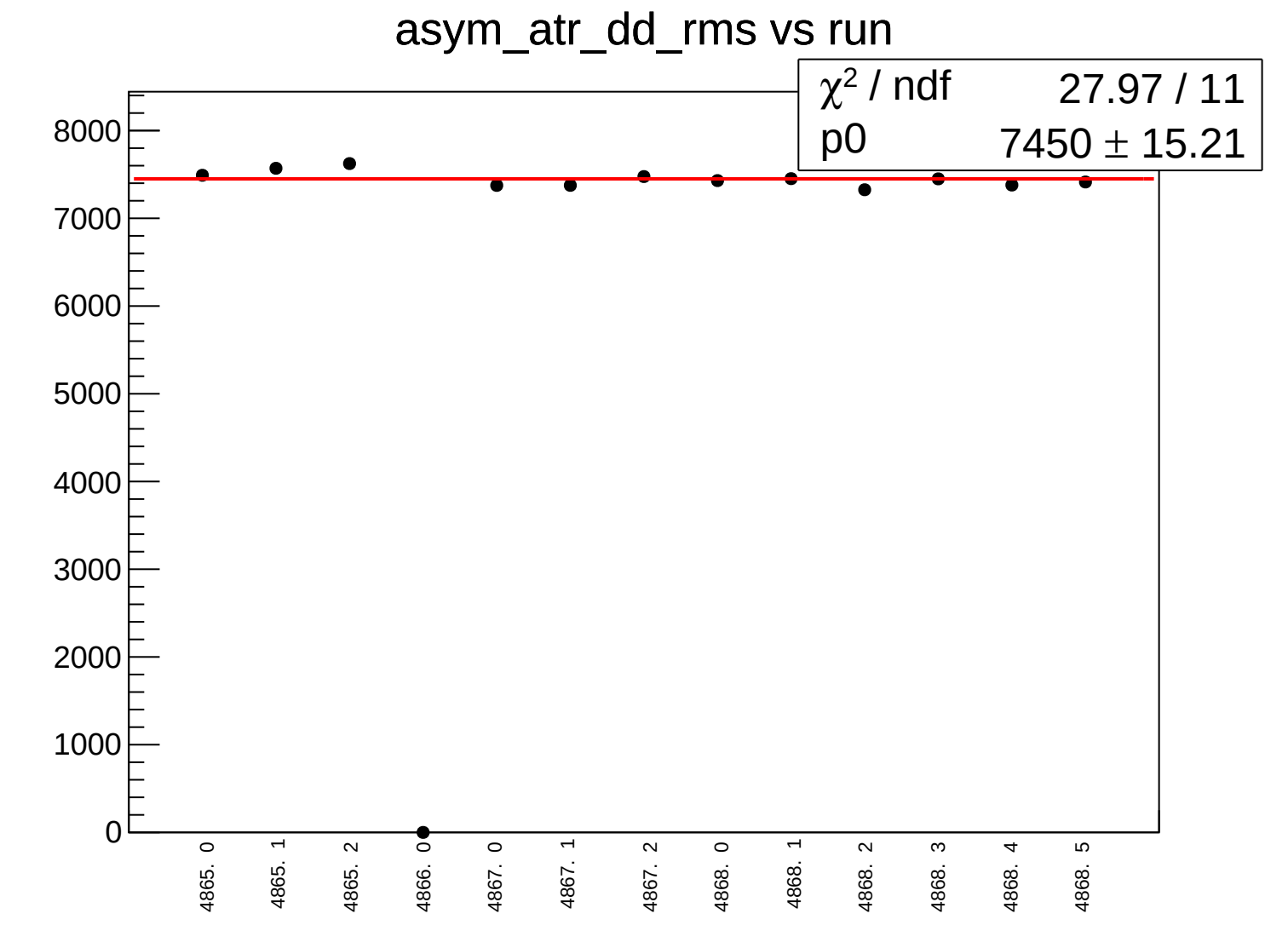
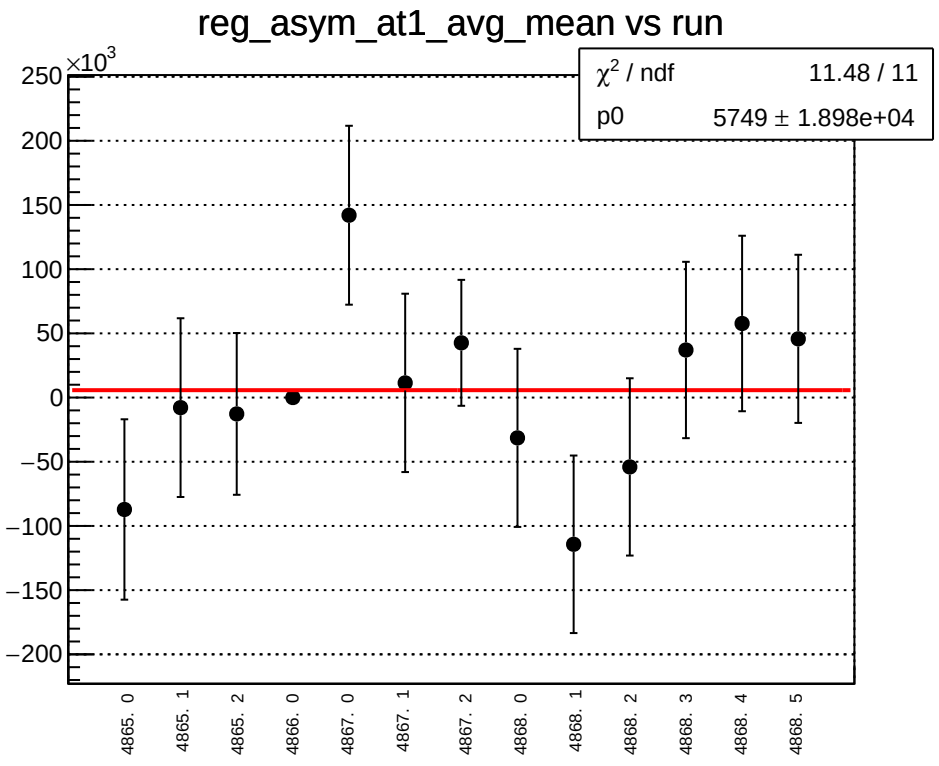
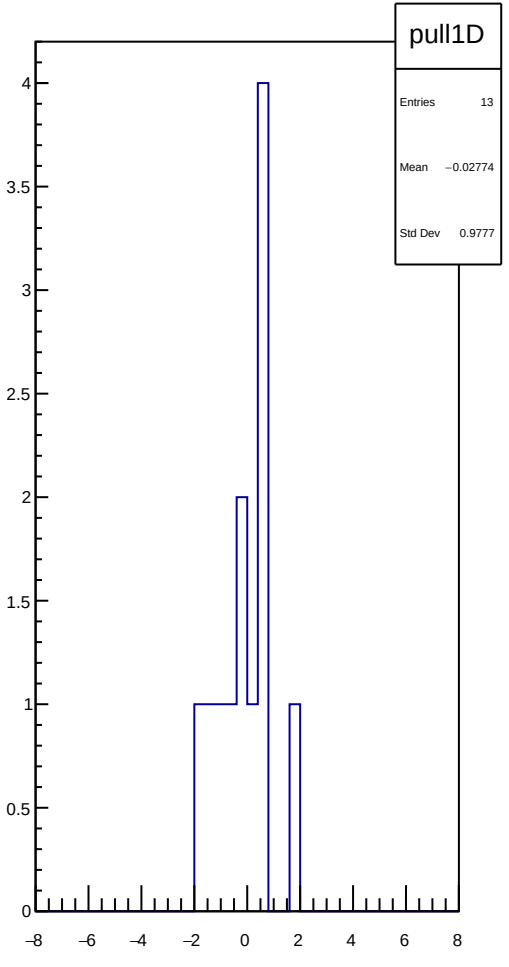
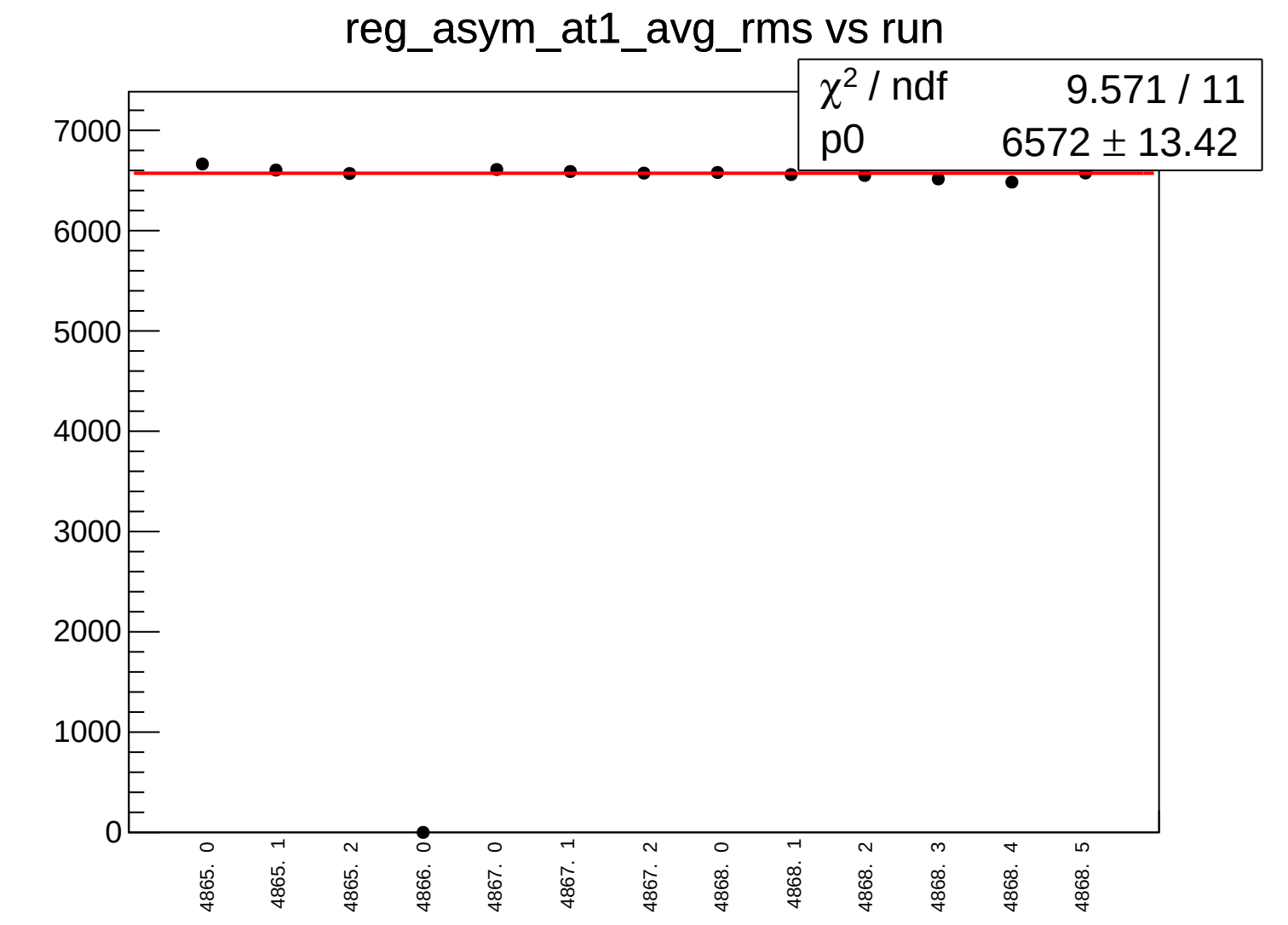
4868. 4
4868. 5

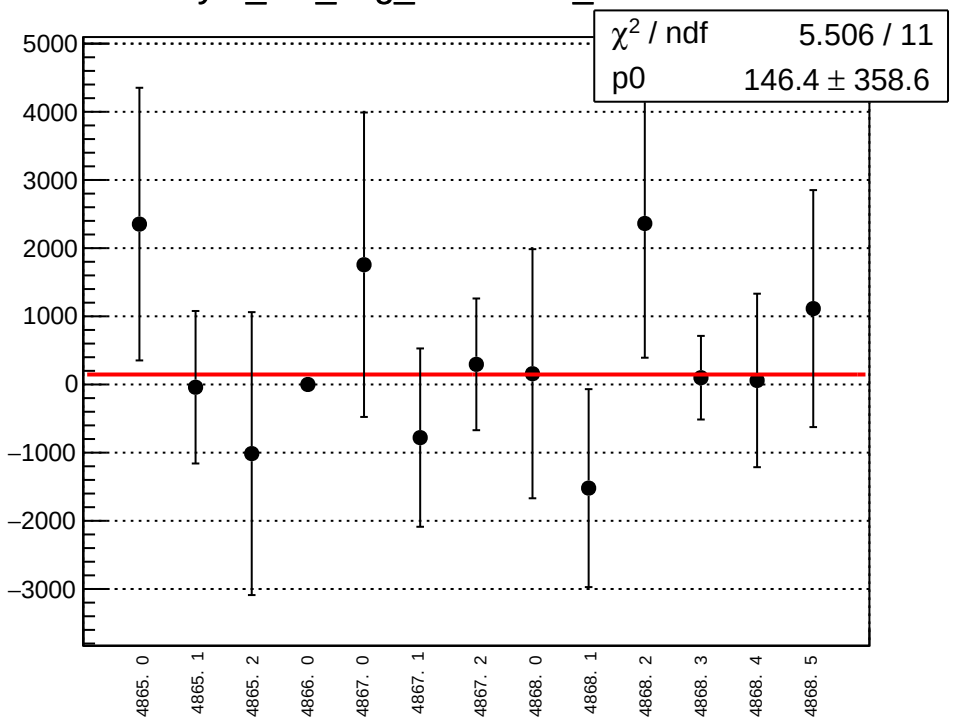

pull1D
Entries 13
Mean 0.0004739
Std Dev 0.8206
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

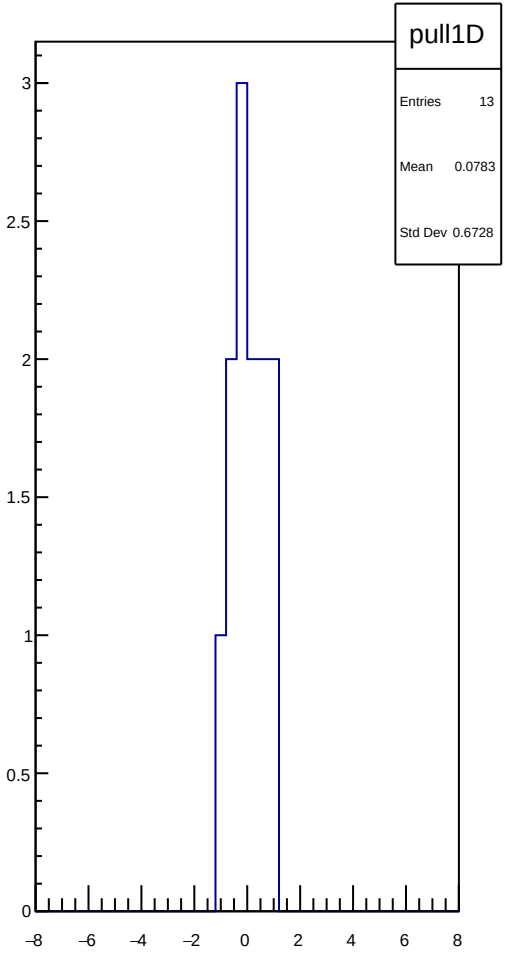

asym_atr_dd_rms vs run
χ² / ndf 27.97 / 11
p0 7450 ± 15.21
8000
7000
6000
5000
4000
3000
2000
1000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

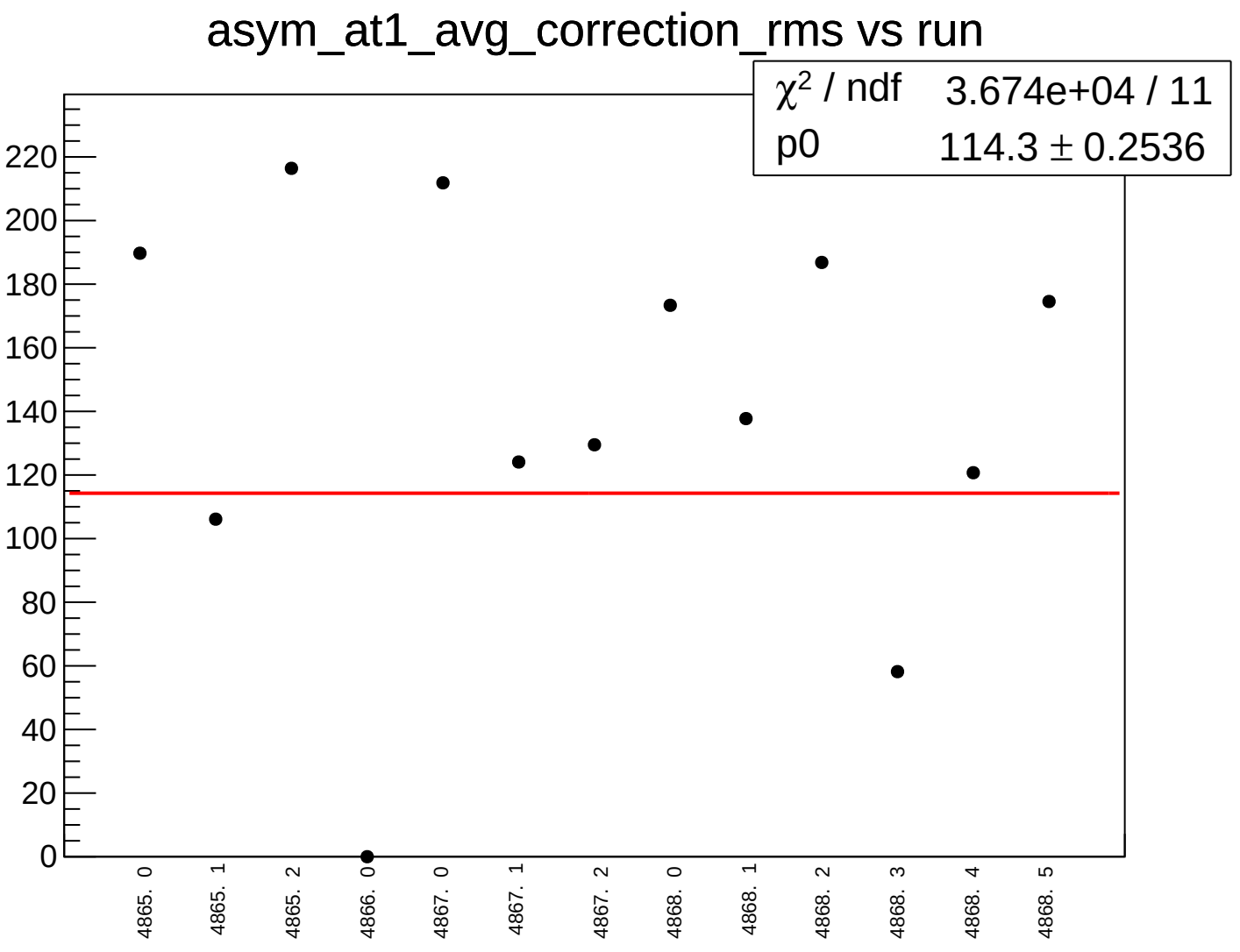

reg_asym_at1_avg_mean vs run
×10^3
χ² / ndf 11.48 / 11
p0 5749 ± 1.898e+04
250
200
150
100
50
0
−50
−100
−150
−200
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

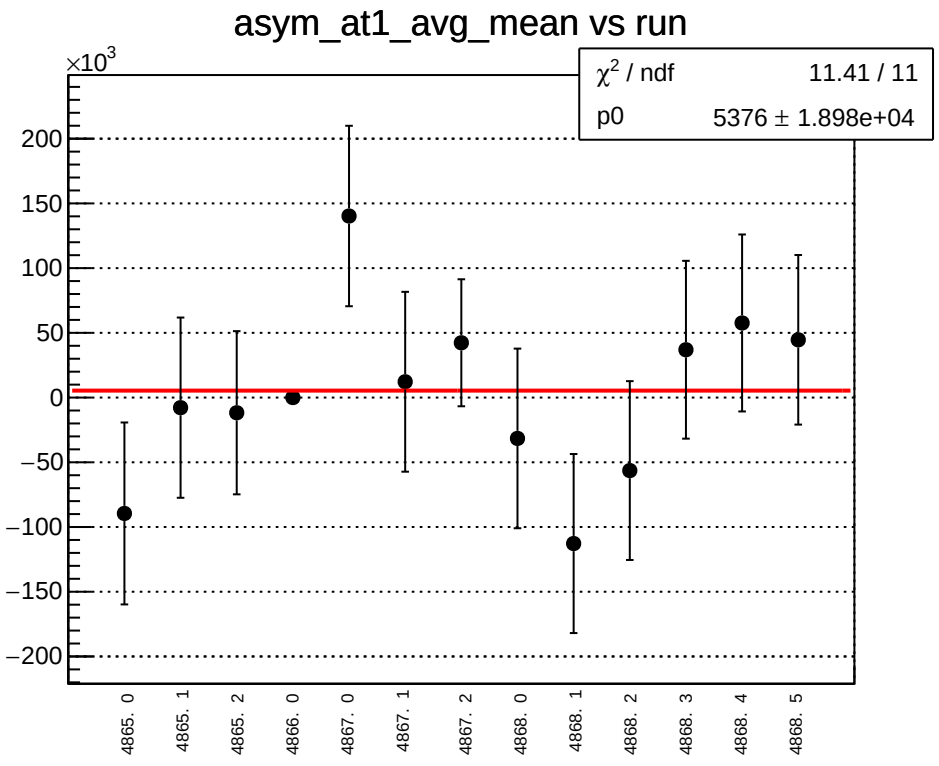

pull1D
Entries 13
Mean −0.02774
Std Dev 0.9777
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

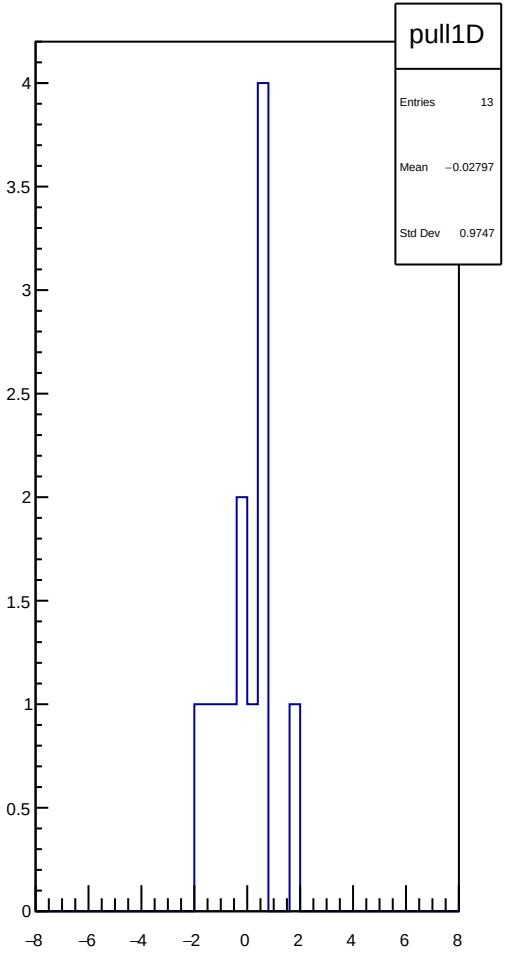

reg_asym_at1_avg_rms vs run
χ² / ndf 9.571 / 11
p0 6572 ± 13.42
7000
6000
5000
4000
3000
2000
1000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

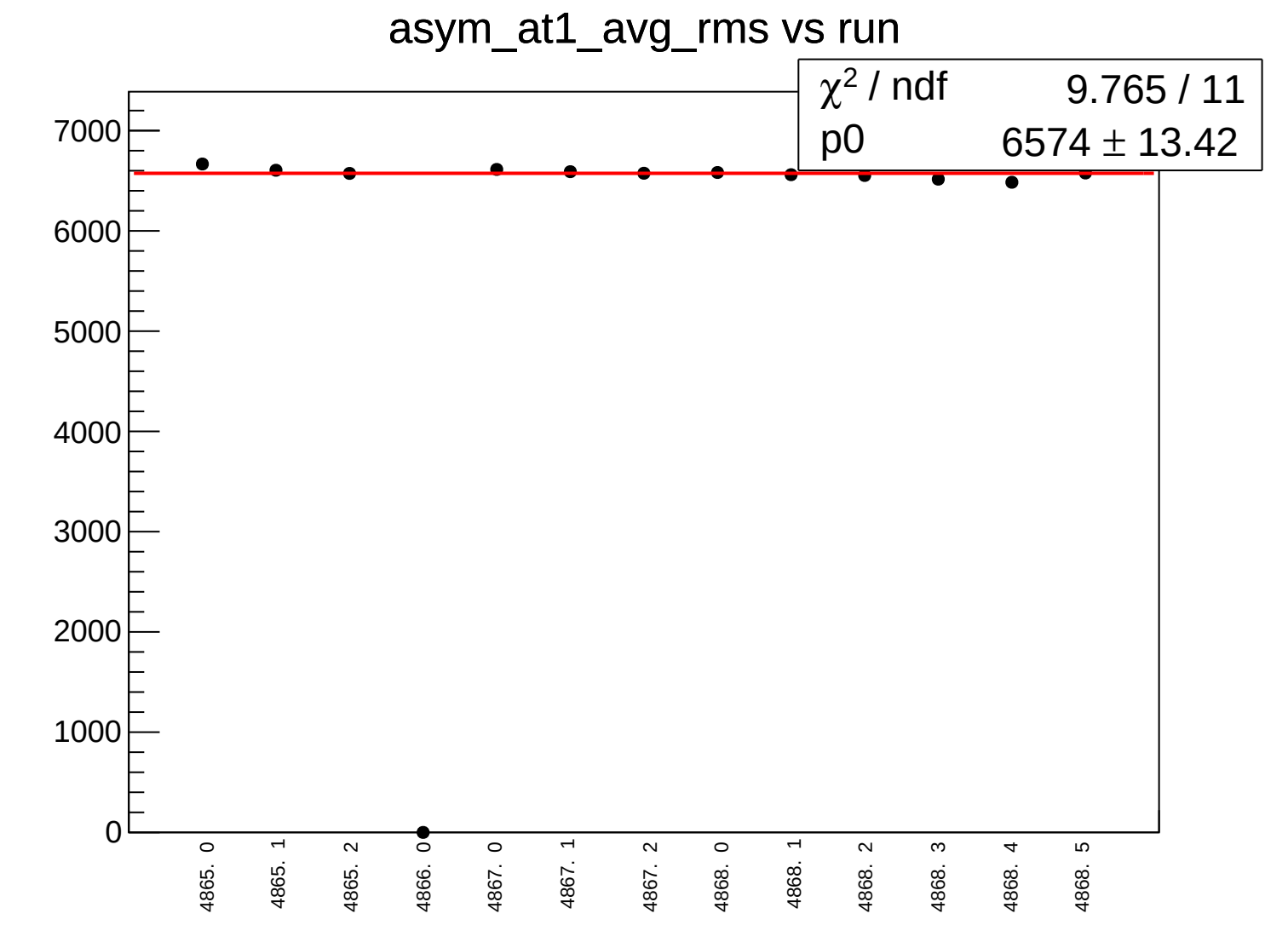

asym_at1_avg_correction_mean vs run
χ² / ndf 5.506 / 11
p0 146.4 ± 358.6
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

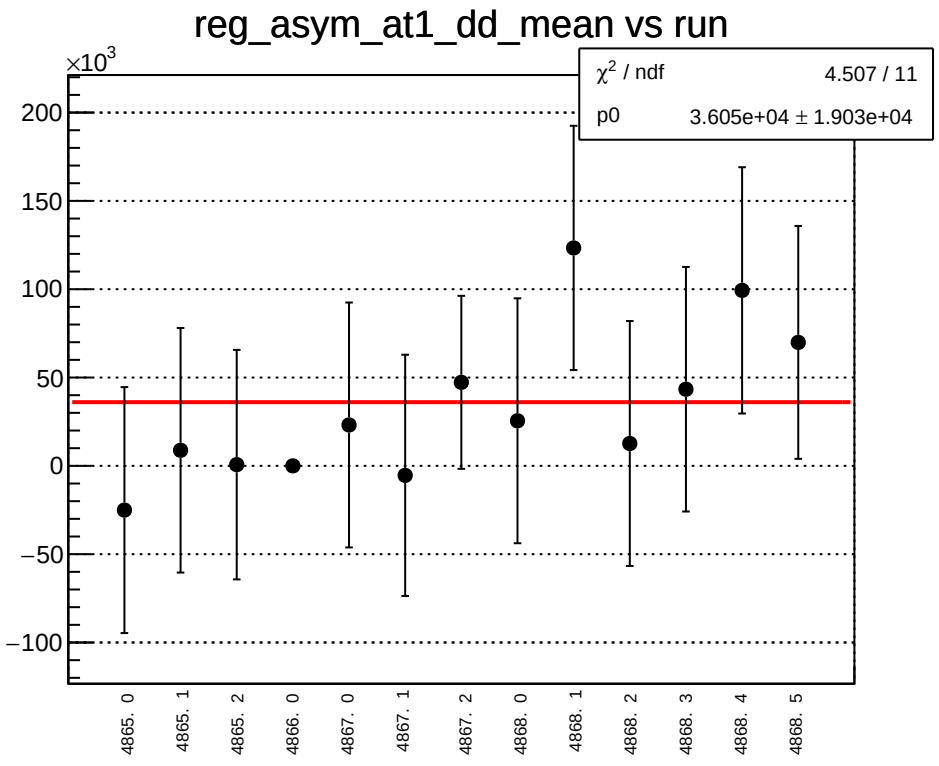

pull1D
Entries 13
Mean 0.0783
Std Dev 0.6728
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

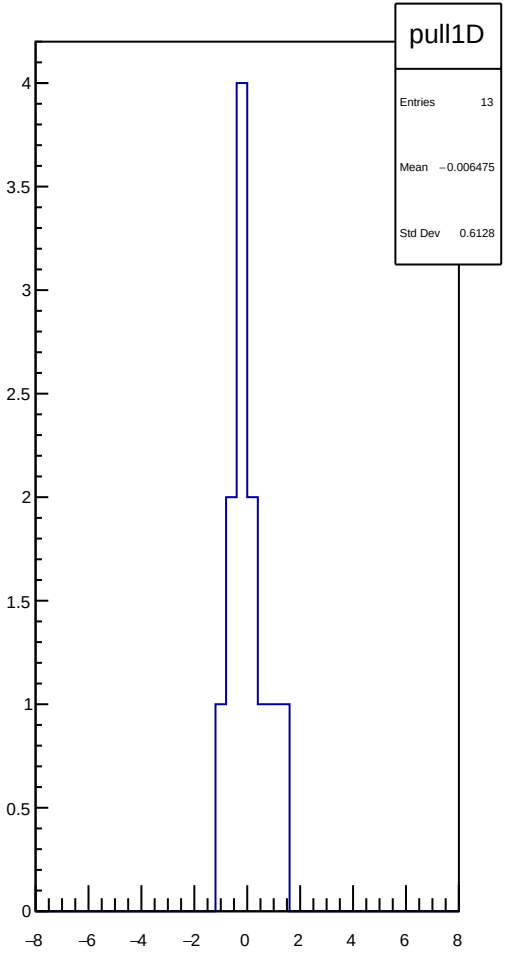

asym_at1_avg_correction_rms vs run
χ² / ndf 3.674e+04 / 11
p0 114.3 ± 0.2536
220
200
180
160
140
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

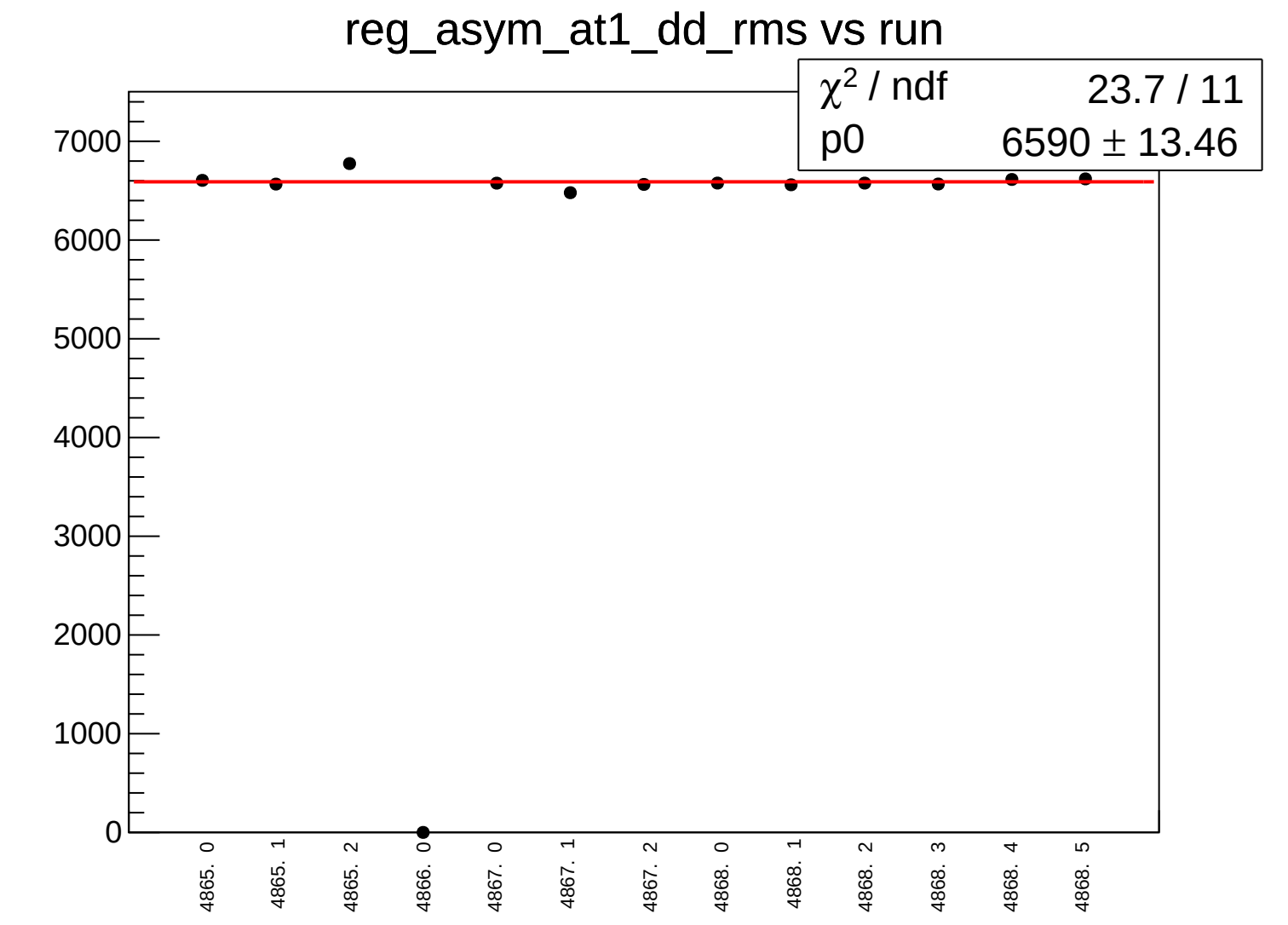

asym_at1_avg_mean vs run
×10^3
χ² / ndf 11.41 / 11
p0 5376 ± 1.898e+04
200
150
100
50
0
−50
−100
−150
−200
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

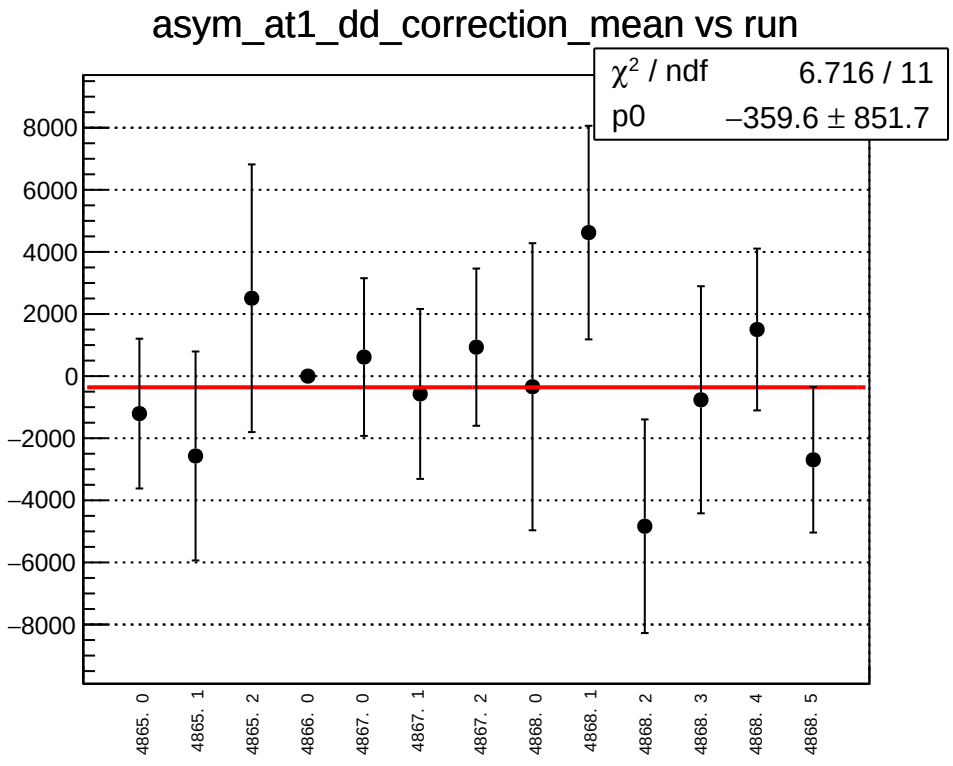

pull1D
Entries 13
Mean −0.02797
Std Dev 0.9747
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

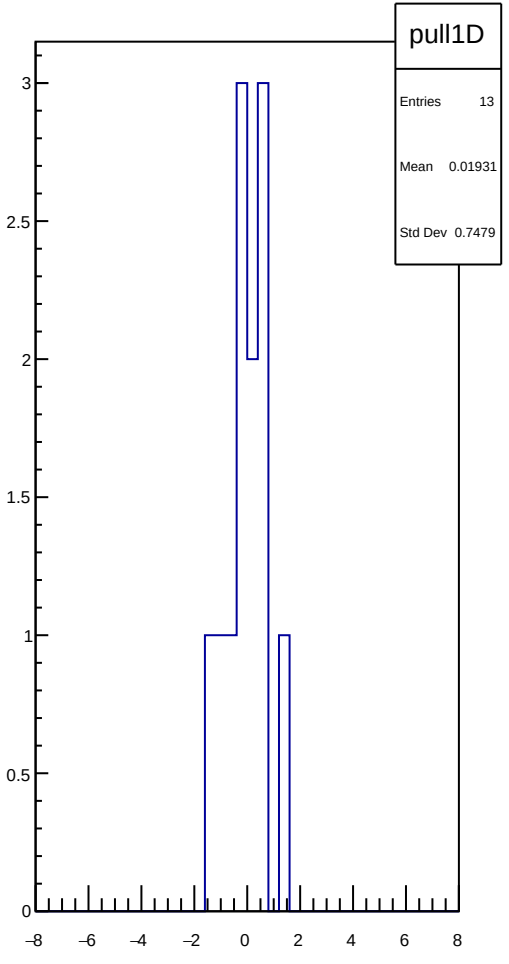

asym_at1_avg_rms vs run
χ² / ndf 9.765 / 11
p0 6574 ± 13.42
7000
6000
5000
4000
3000
2000
1000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

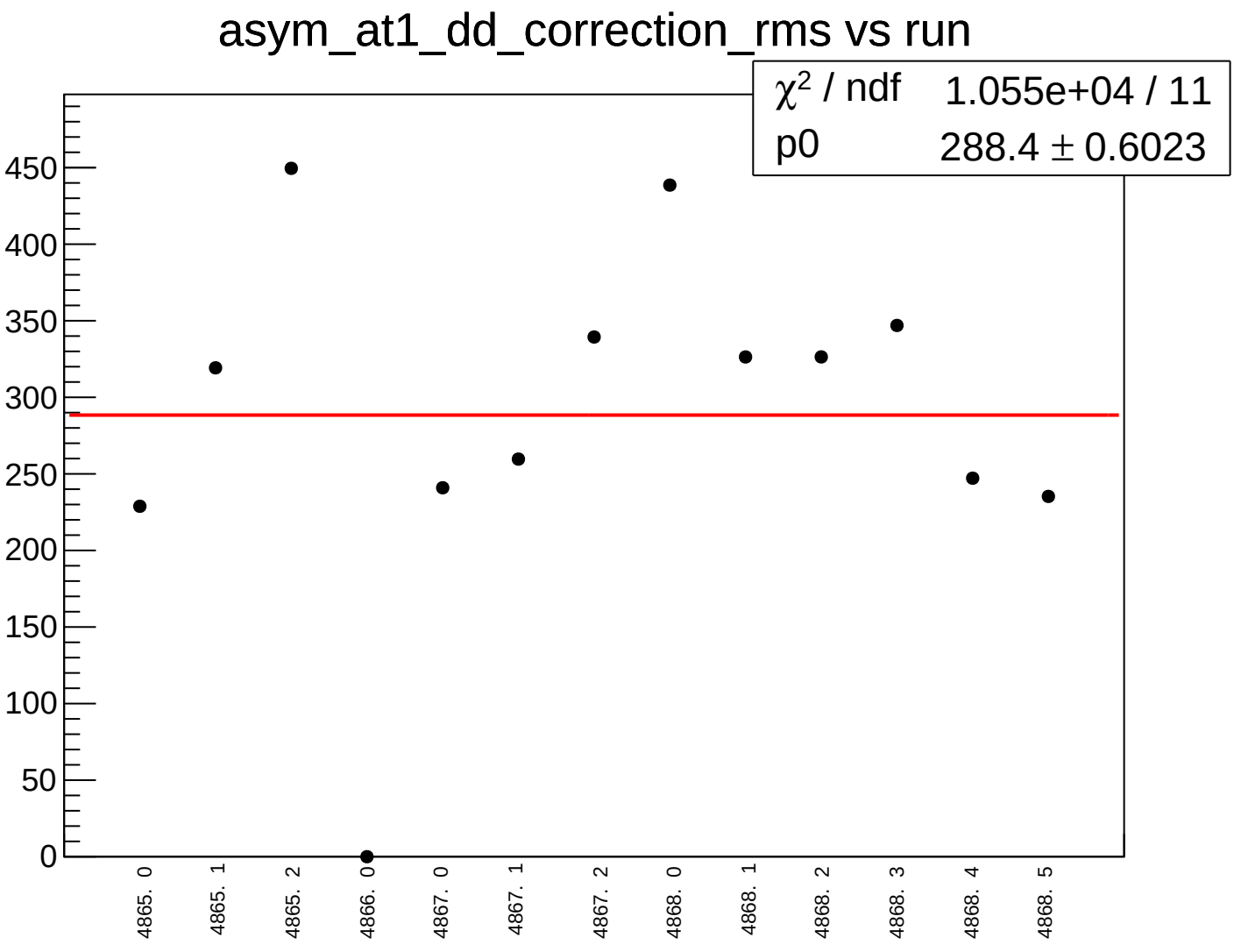

reg_asym_at1_dd_mean vs run
×10^3
χ² / ndf 4.507 / 11
p0 3.605e+04 ± 1.903e+04
200
150
100
50
0
−50
−100
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

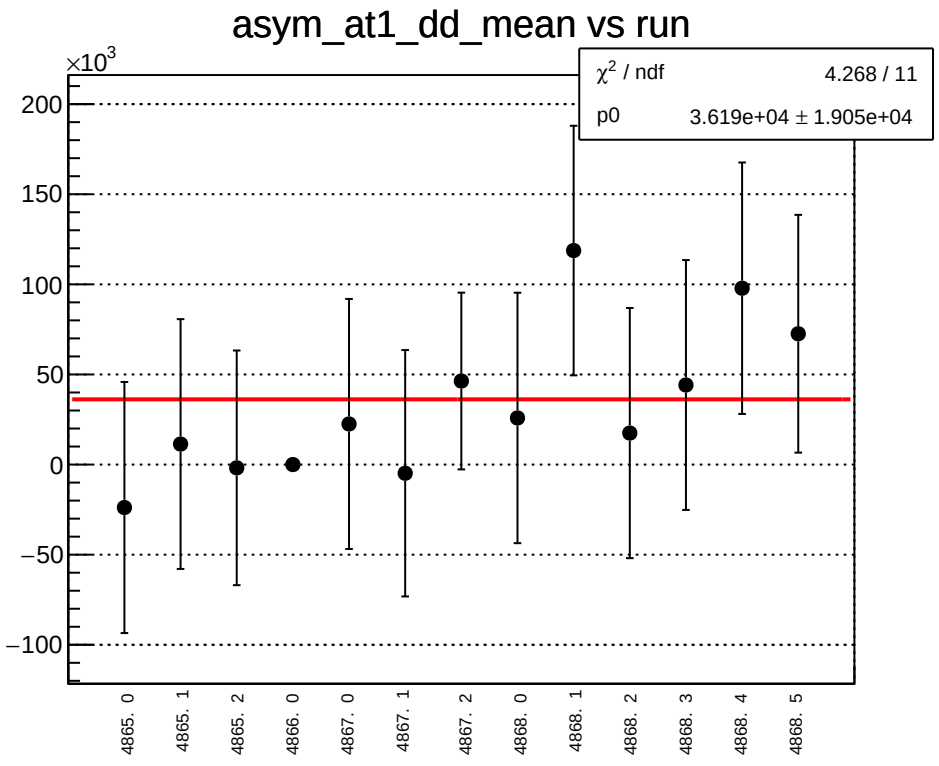

pull1D
Entries 13
Mean −0.006475
Std Dev 0.6128
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

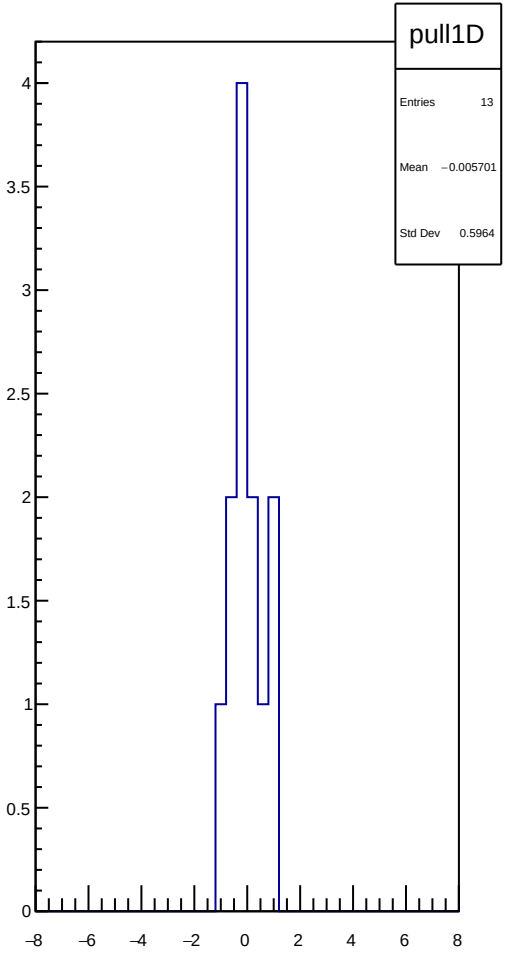

reg_asym_at1_dd_rms vs run
χ² / ndf 23.7 / 11
p0 6590 ± 13.46
7000
6000
5000
4000
3000
2000
1000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

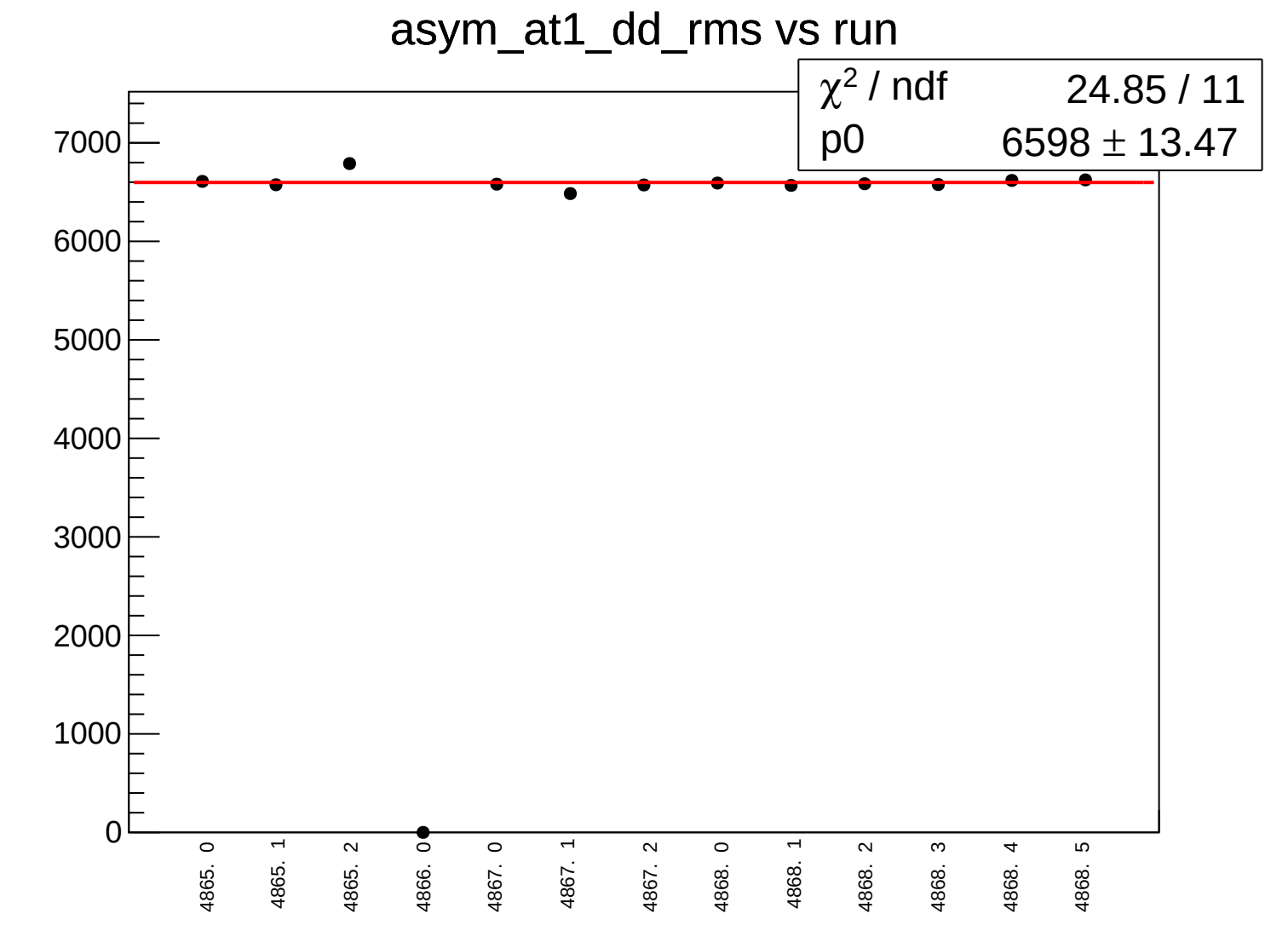

asym_at1_dd_correction_mean vs run
χ² / ndf 6.716 / 11
p0 −359.6 ± 851.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

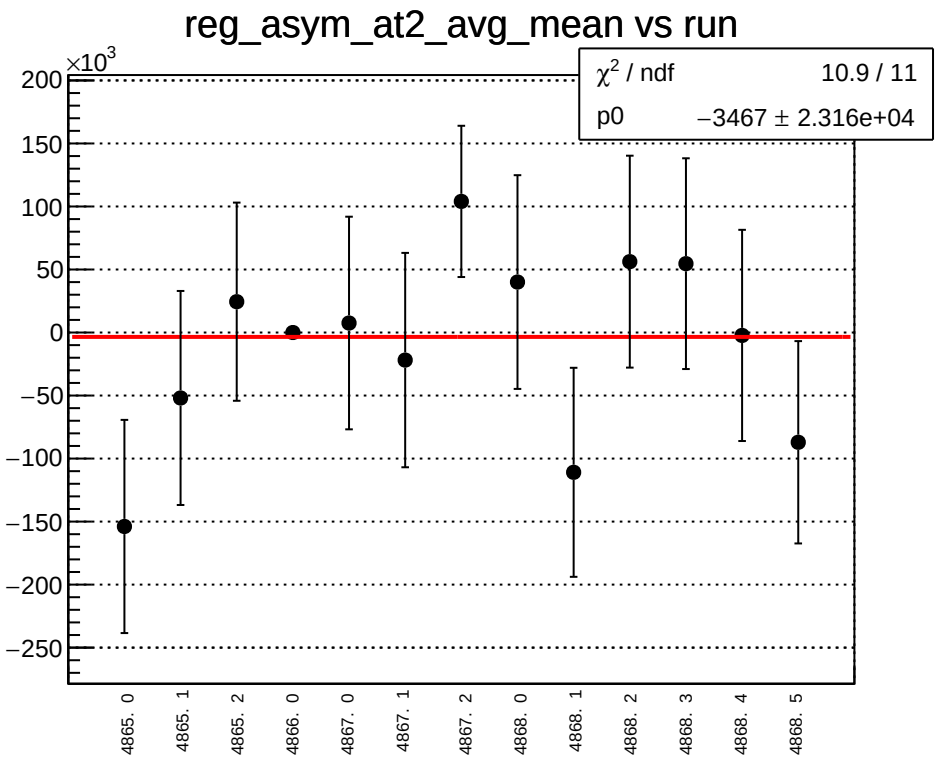

pull1D
Entries 13
Mean 0.01931
Std Dev 0.7479
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

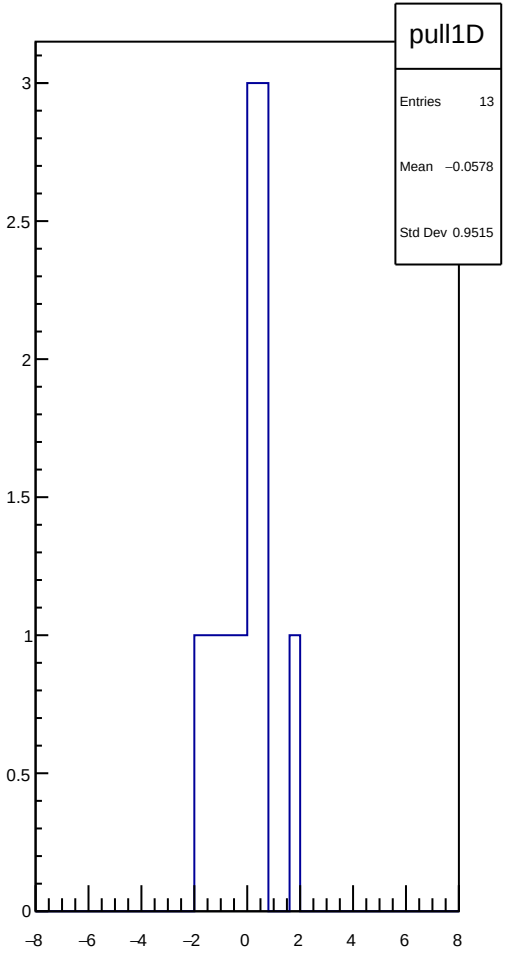

asym_at1_dd_correction_rms vs run
χ² / ndf 1.055e+04 / 11
p0 288.4 ± 0.6023
450
400
350
300
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

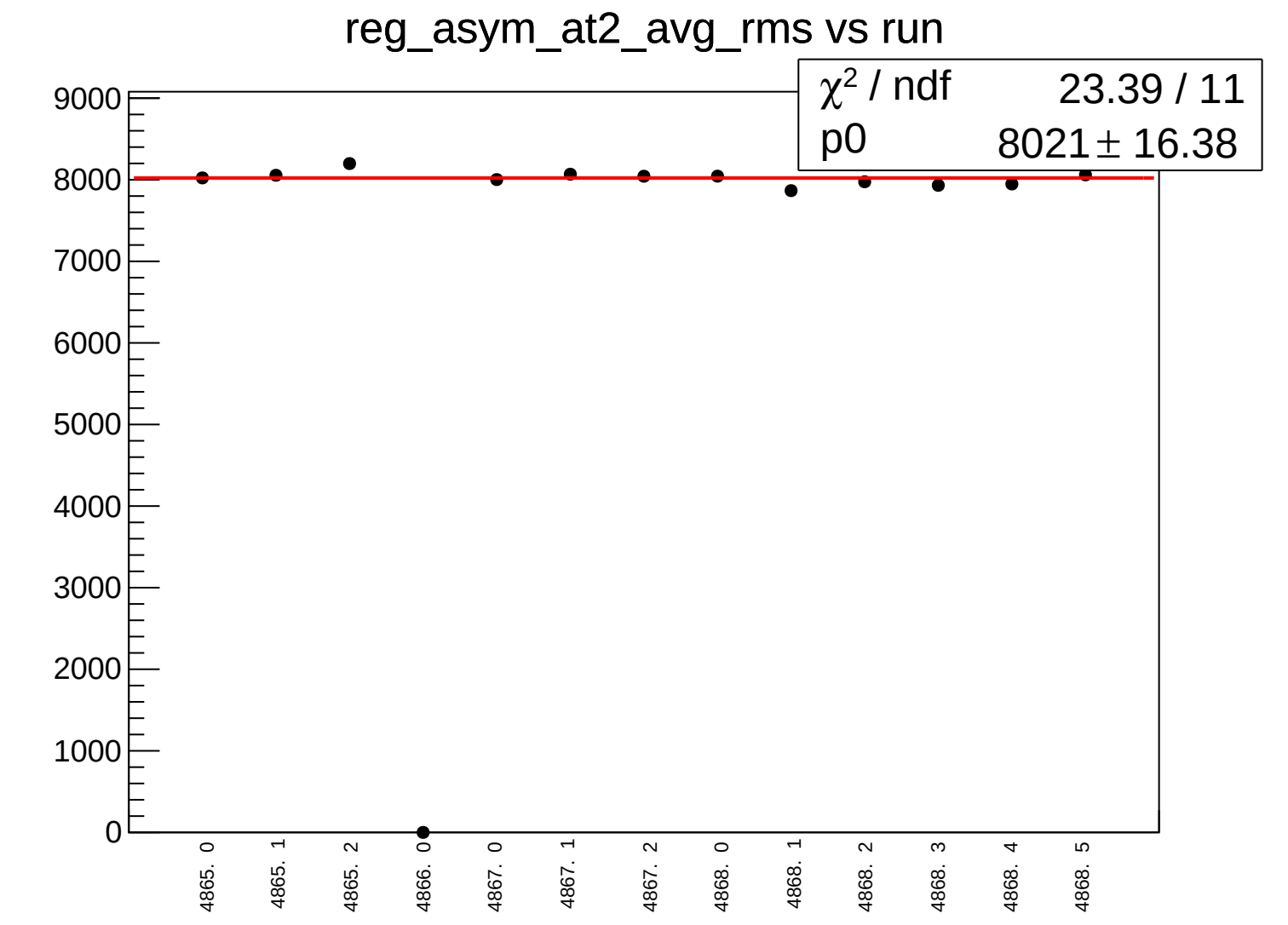

asym_at1_dd_mean vs run
×10^3
χ² / ndf 4.268 / 11
p0 3.619e+04 ± 1.905e+04
200
150
100
50
0
−50
−100
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.005701
Std Dev 0.5964
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_dd_rms vs run
χ² / ndf 24.85 / 11
p0 6598 ± 13.47
7000
6000
5000
4000
3000
2000
1000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


reg_asym_at2_avg_mean vs run
×10^3
χ² / ndf 10.9 / 11
p0 −3467 ± 2.316e+04
200
150
100
50
0
−50
−100
−150
−200
−250
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.0578
Std Dev 0.9515
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at2_avg_rms vs run
χ² / ndf 23.39 / 11
p0 8021 ± 16.38
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
4865. 0
4865. 1
4865. 2
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4867. 1
4867. 2
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4868. 2
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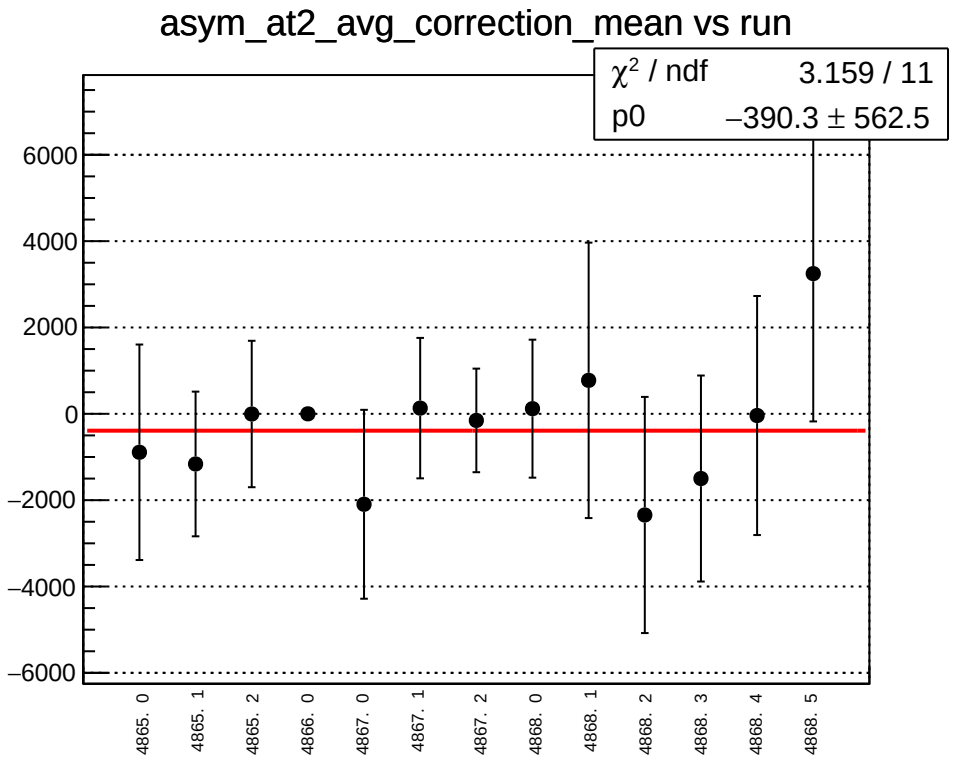
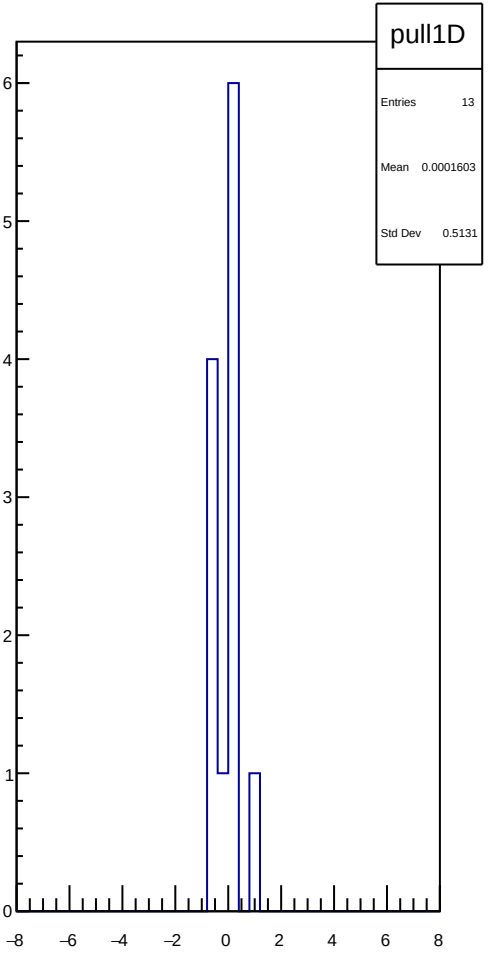
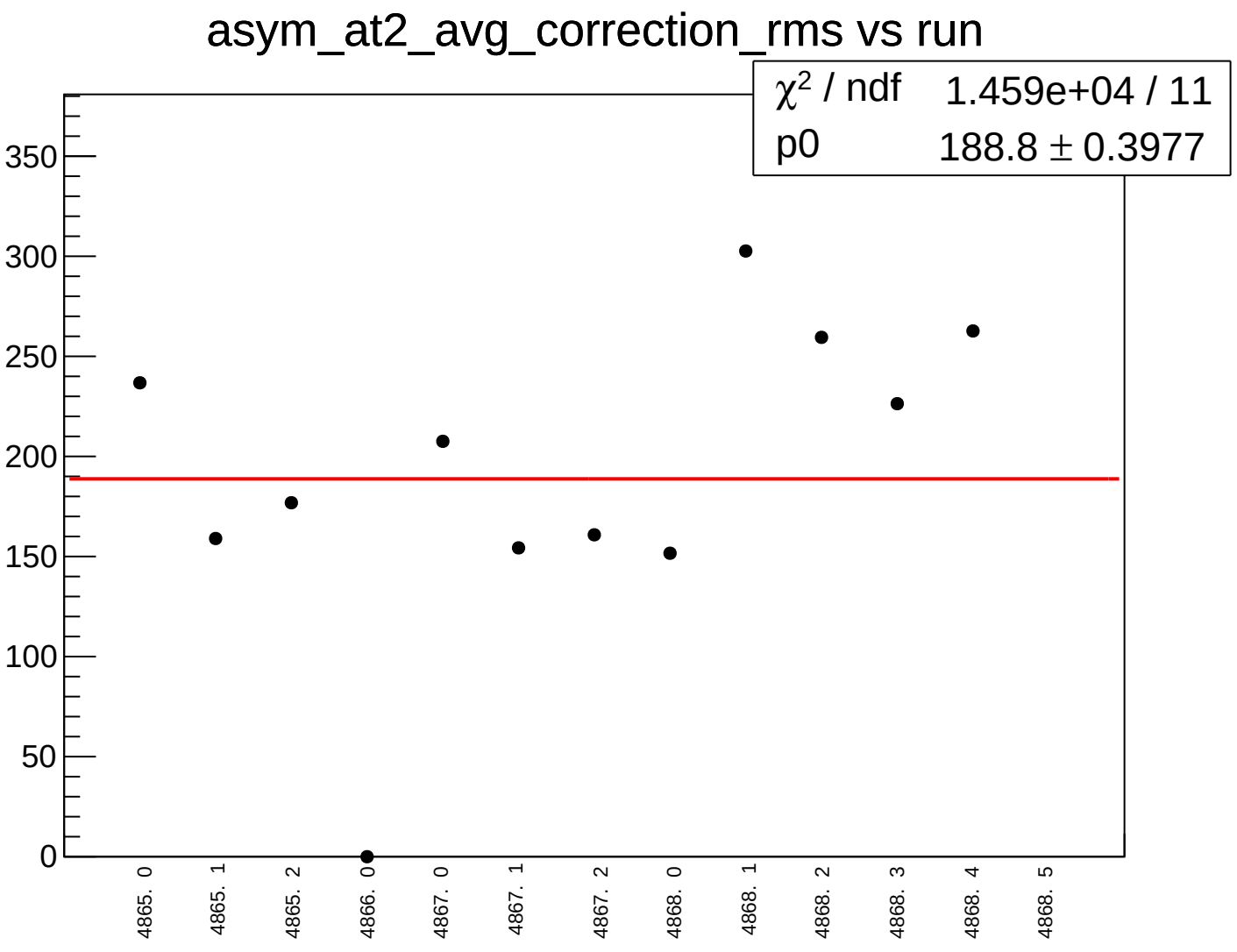
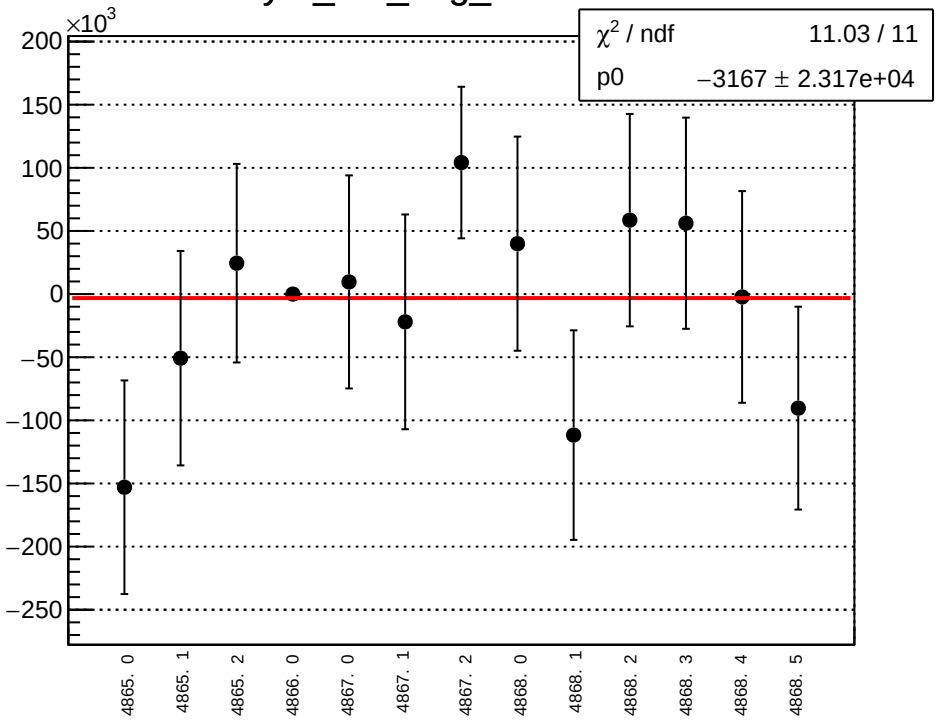
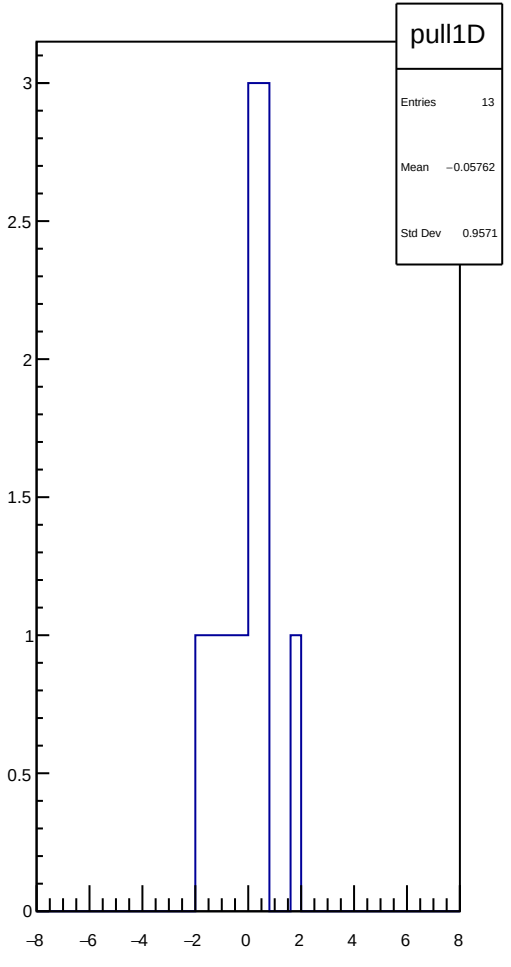
4868. 4
4868. 5

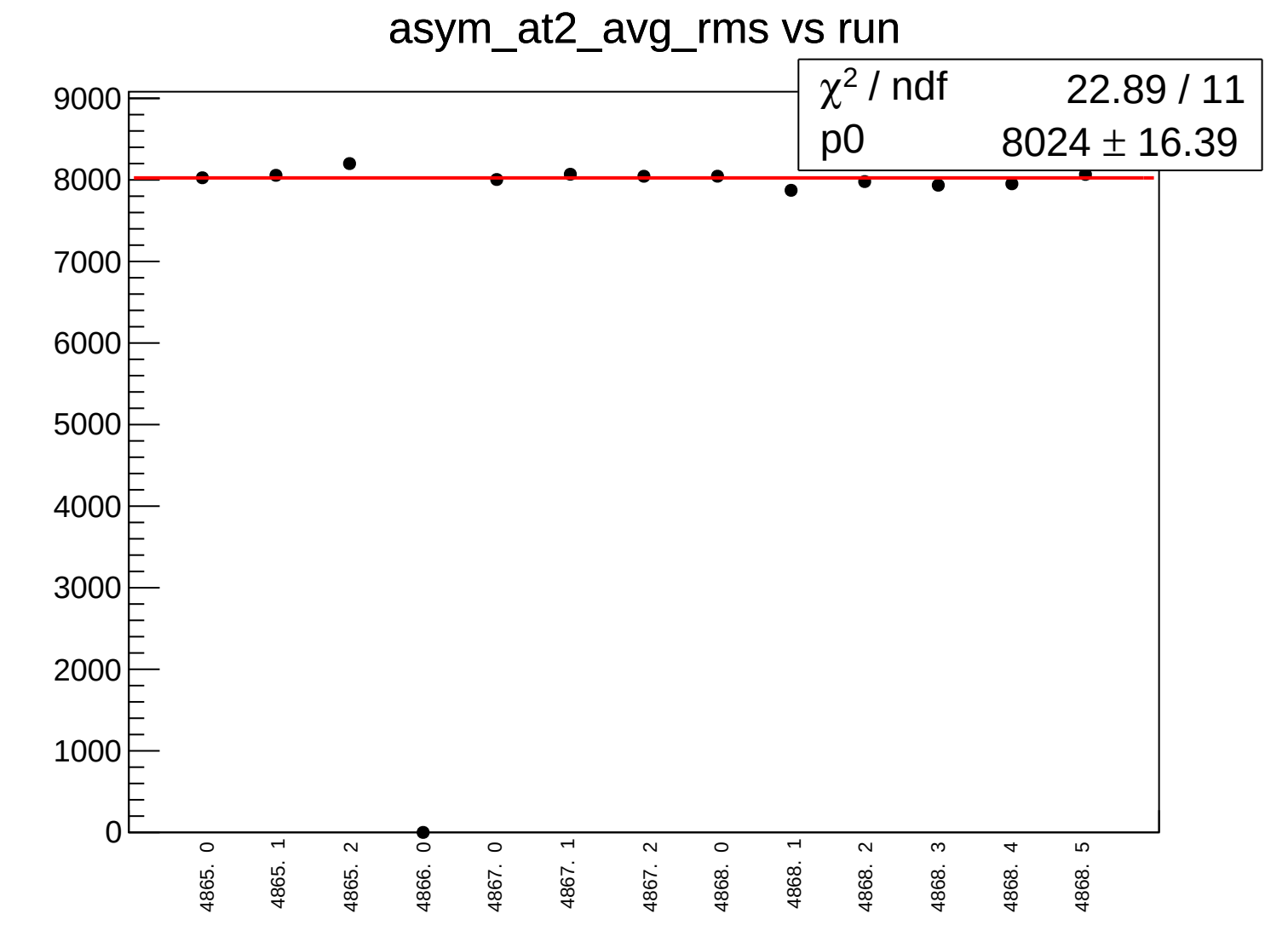

asym_at2_avg_correction_mean vs run
χ² / ndf 3.159 / 11
p0 −390.3 ± 562.5
6000
4000
2000
0
−2000
−4000
−6000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

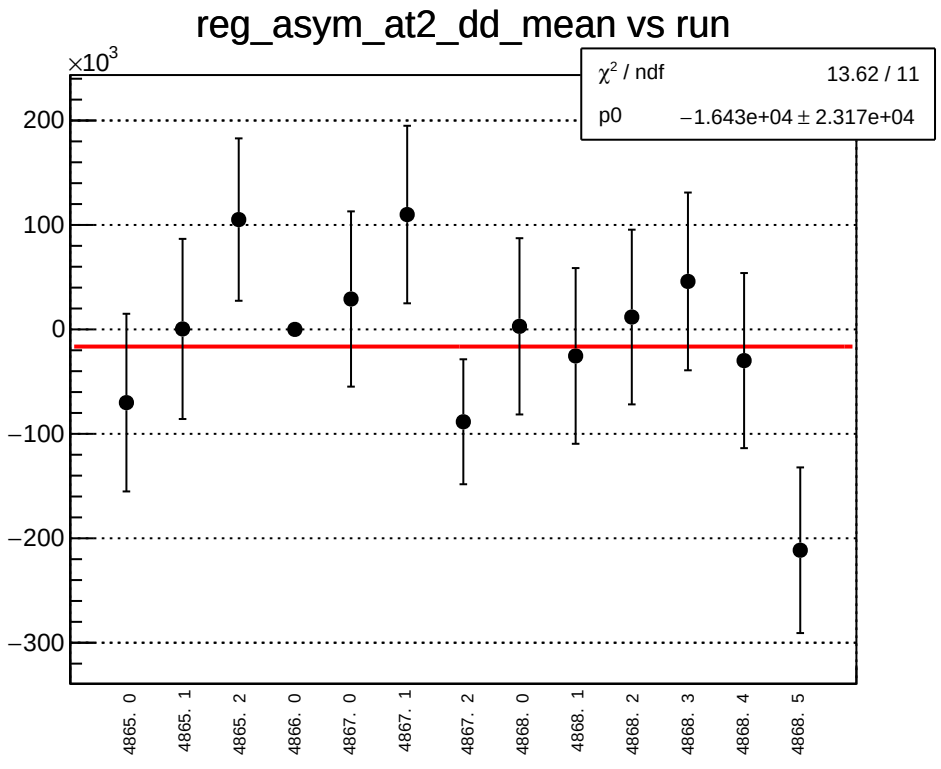

pull1D
Entries 13
Mean 0.0001603
Std Dev 0.5131
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

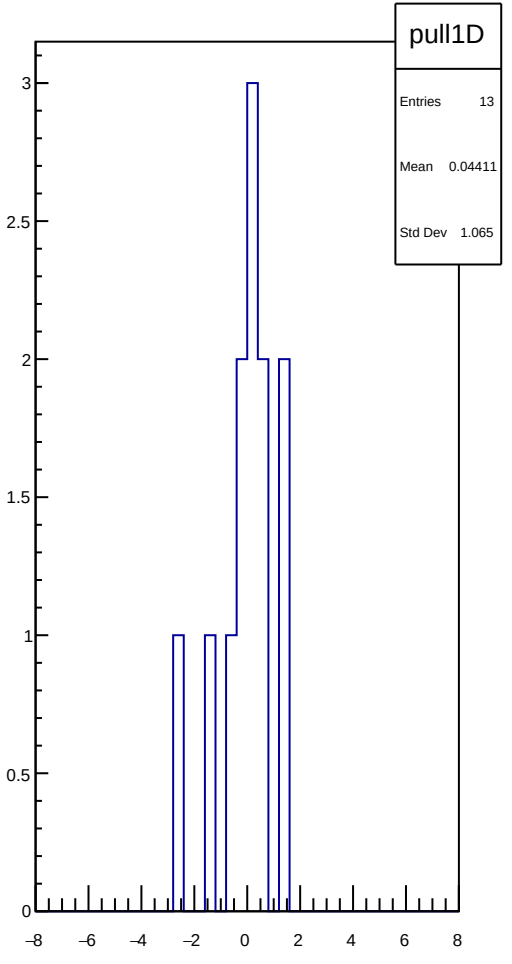

asym_at2_avg_correction_rms vs run
χ² / ndf 1.459e+04 / 11
p0 188.8 ± 0.3977
350
300
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

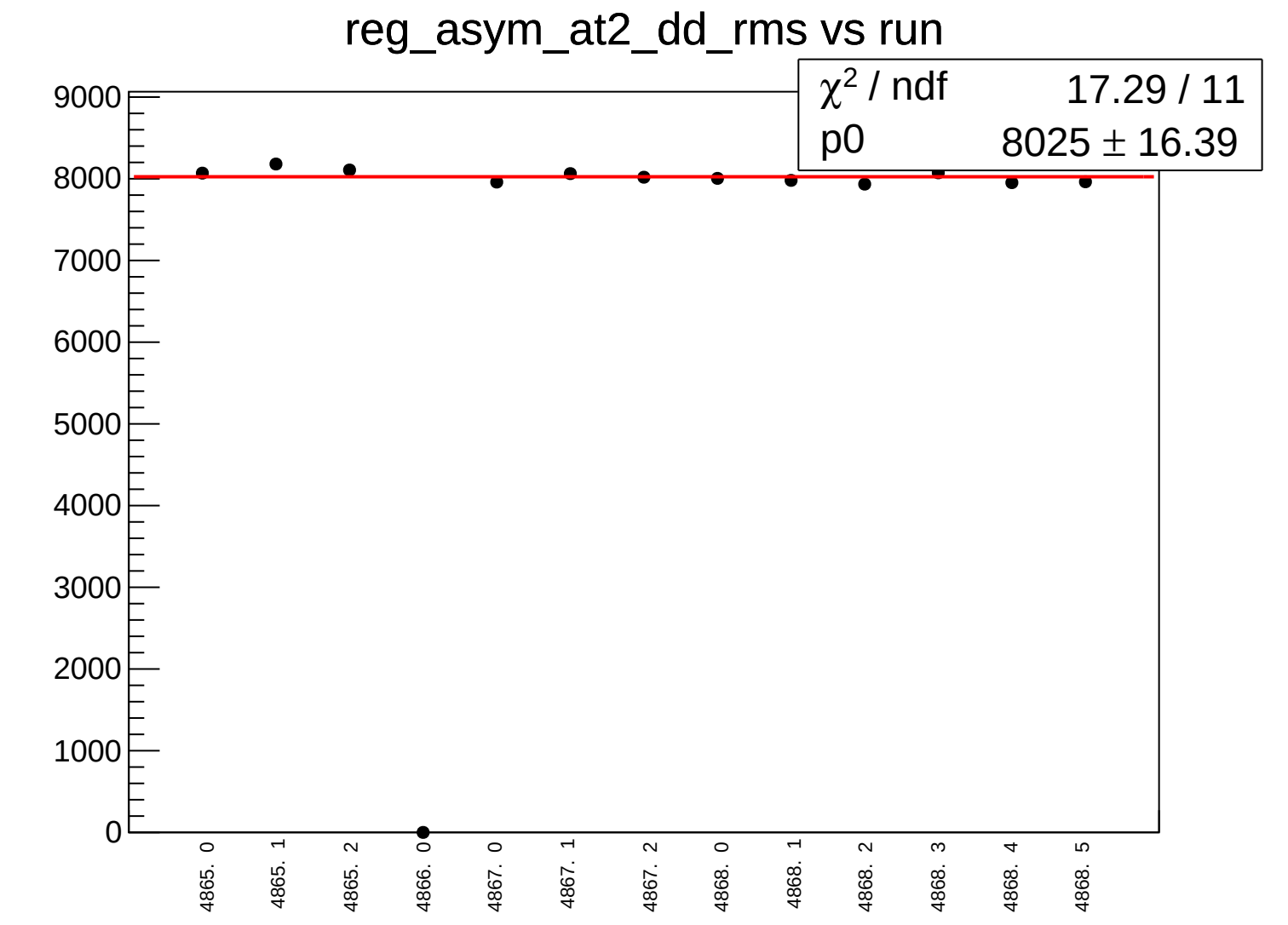

asym_at2_avg_mean vs run
×10^3
χ² / ndf 11.03 / 11
p0 −3167 ± 2.317e+04
200
150
100
50
0
−50
−100
−150
−200
−250
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.05762
Std Dev 0.9571
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_avg_rms vs run
χ² / ndf 22.89 / 11
p0 8024 ± 16.39
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


reg_asym_at2_dd_mean vs run
×10^3
χ² / ndf 13.62 / 11
p0 −1.643e+04 ± 2.317e+04
200
100
0
−100
−200
−300
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.04411
Std Dev 1.065
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at2_dd_rms vs run
χ² / ndf 17.29 / 11
p0 8025 ± 16.39
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
4865. 0
4865. 1
4865. 2
4866. 0
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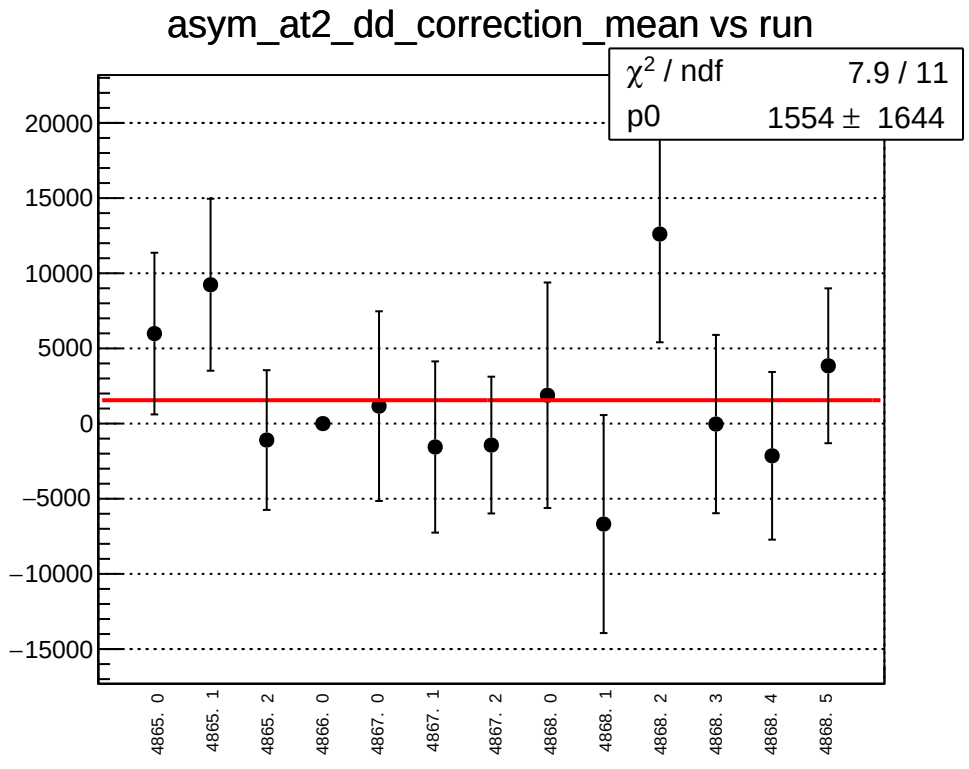
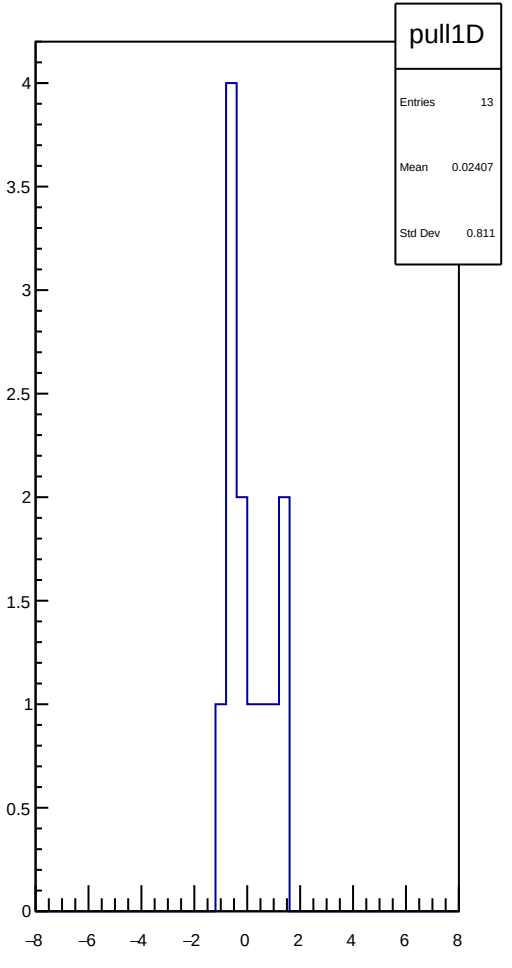
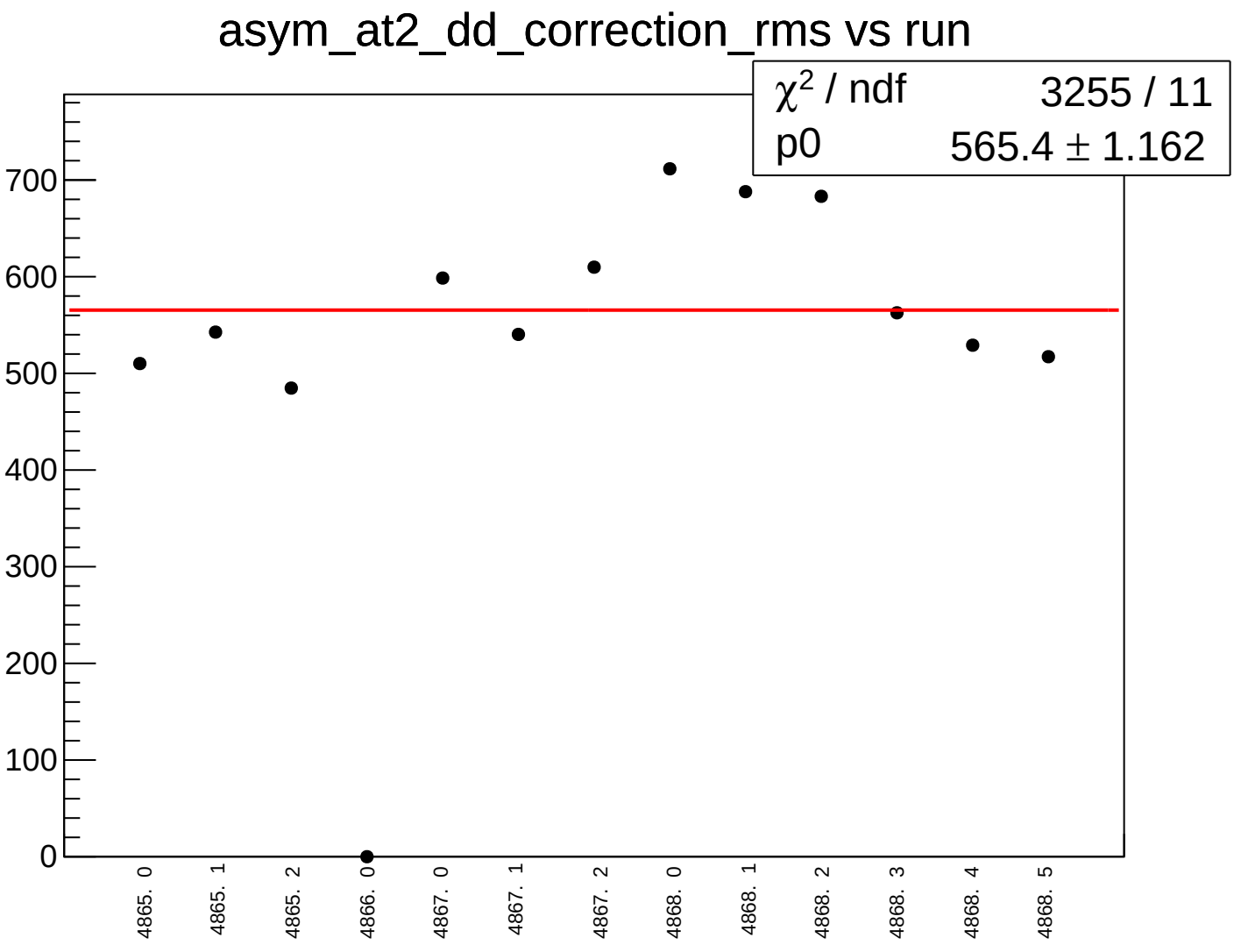
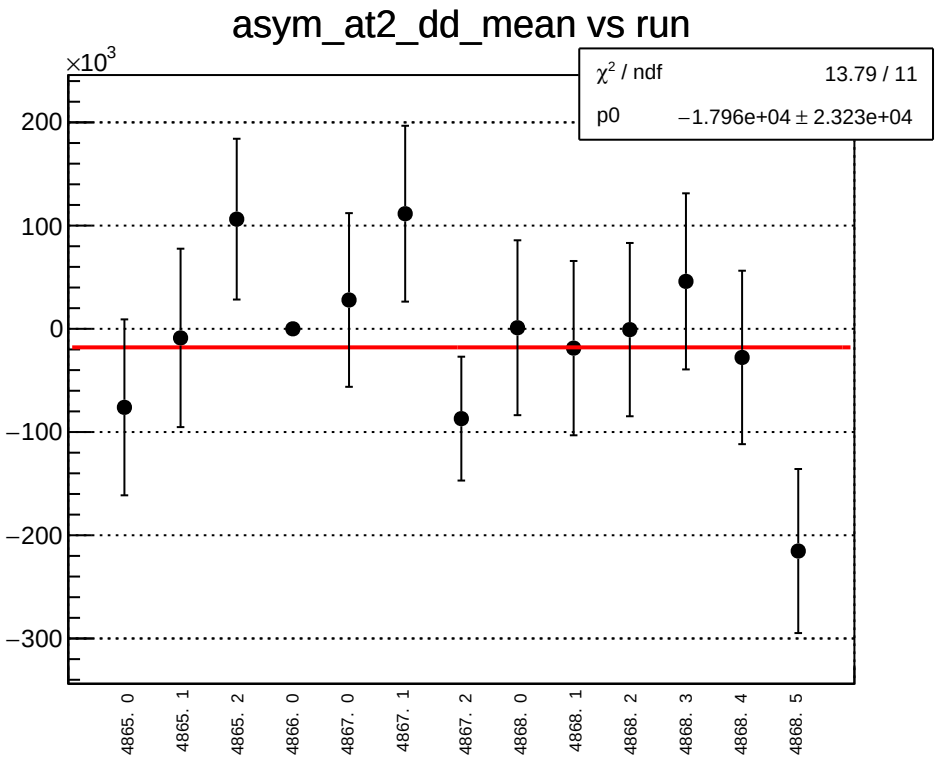
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_at2_dd_correction_mean vs run
χ² / ndf 7.9 / 11
p0 1554 ± 1644
20000
15000
10000
5000
0
−5000
−10000
−15000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.02407
Std Dev 0.811
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_dd_correction_rms vs run
χ² / ndf 3255 / 11
p0 565.4 ± 1.162
700
600
500
400
300
200
100
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_at2_dd_mean vs run
×10^3
χ² / ndf 13.79 / 11
p0 −1.796e+04 ± 2.323e+04
200
100
0
−100
−200
−300
4865. 0
4865. 1
4865. 2
4866. 0
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4867. 1
4867. 2
4868. 0
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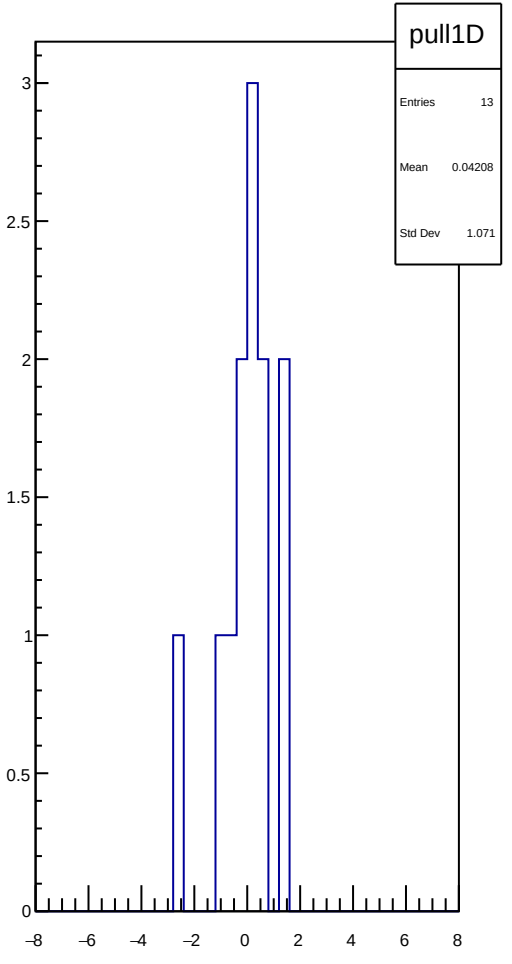
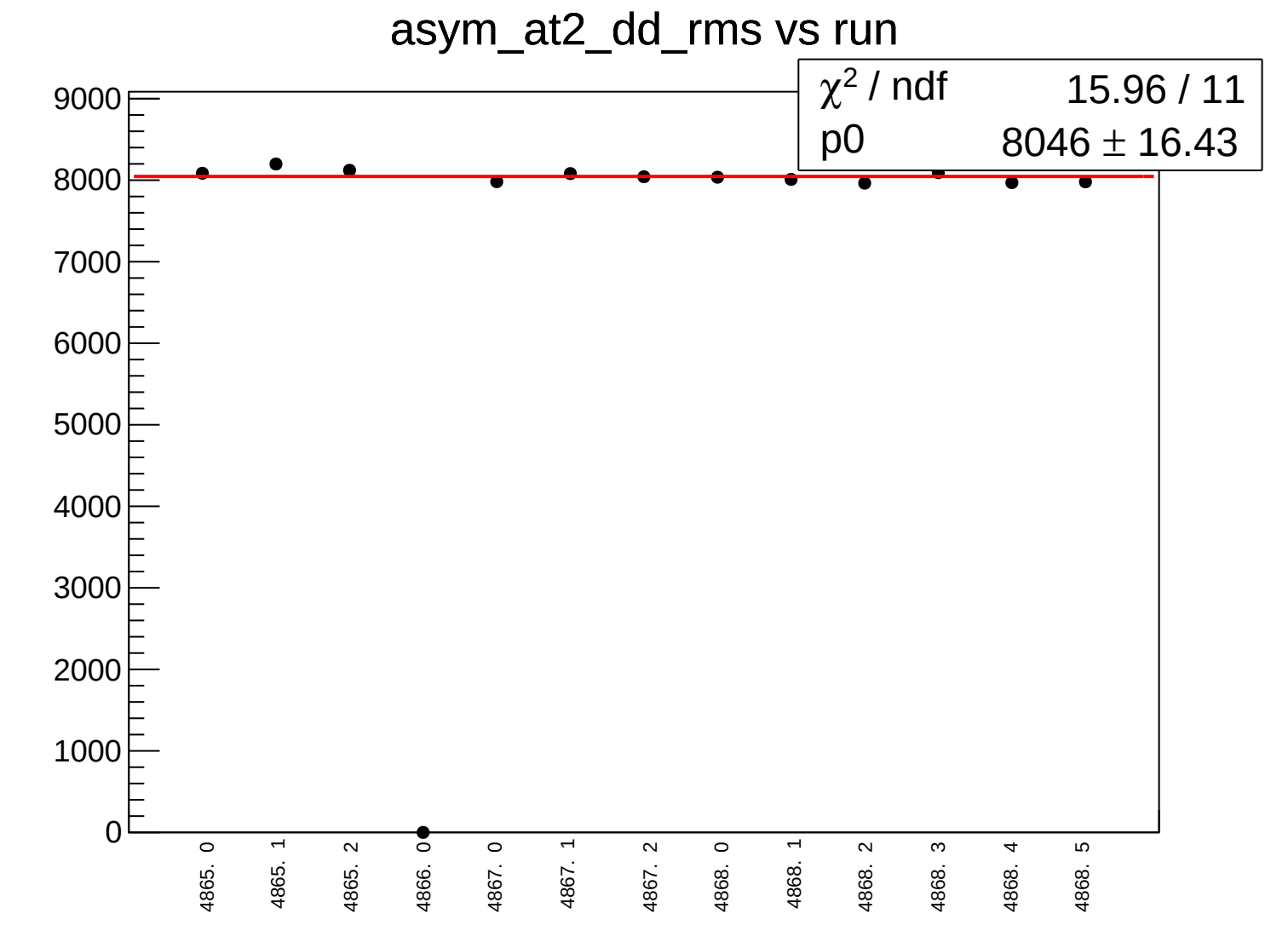
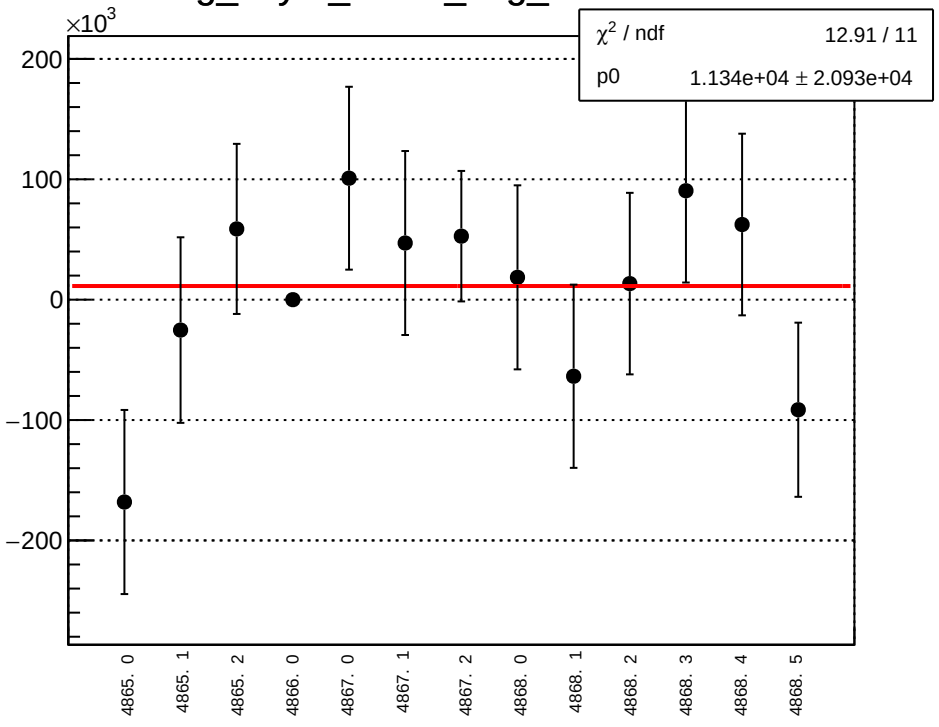
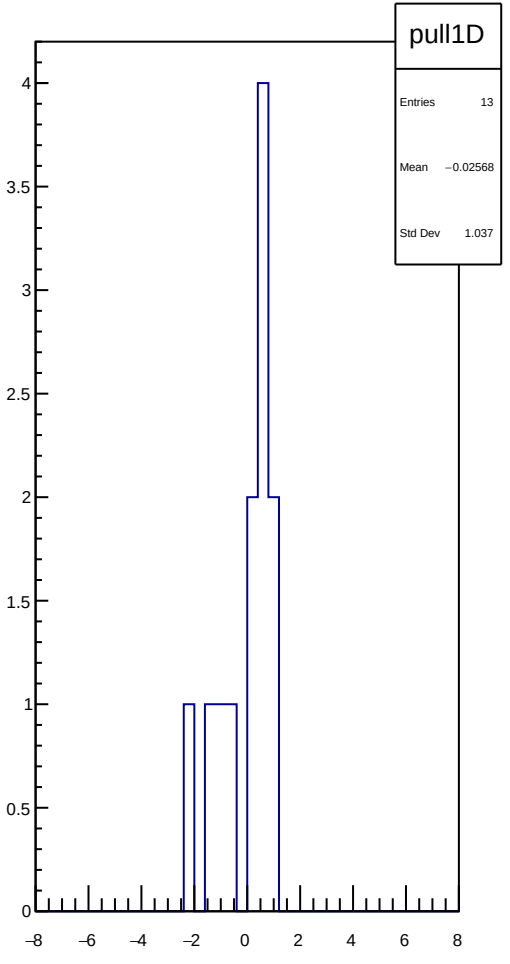
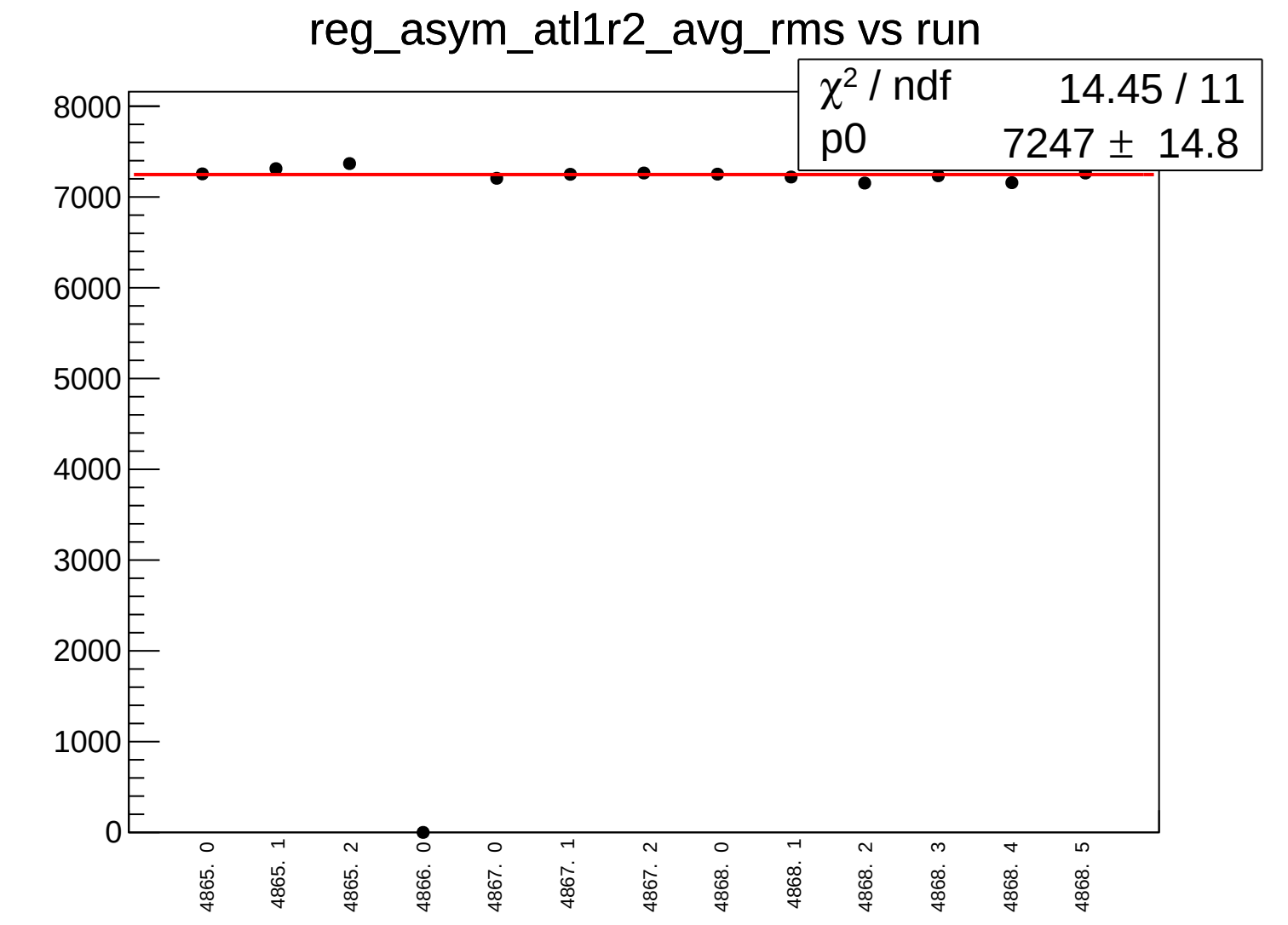
4868. 4
4868. 5

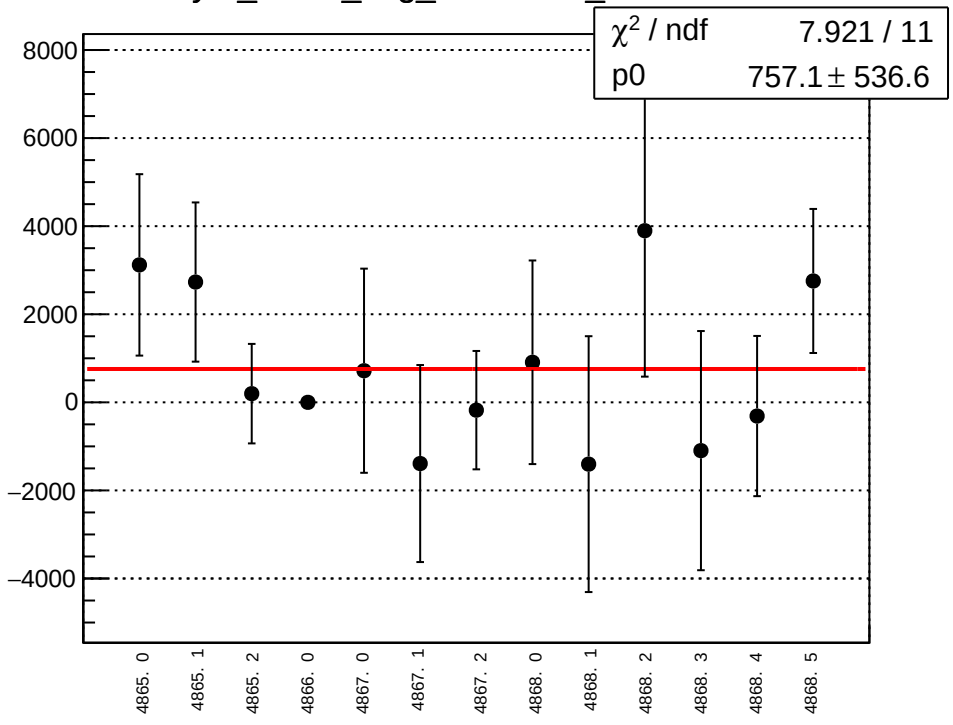

pull1D
Entries 13
Mean 0.04208
Std Dev 1.071
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_dd_rms vs run
χ² / ndf 15.96 / 11
p0 8046 ± 16.43
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


reg_asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 12.91 / 11
p0 1.134e+04 ± 2.093e+04
200
100
0
−100
−200
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.02568
Std Dev 1.037
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_avg_rms vs run
χ² / ndf 14.45 / 11
p0 7247 ± 14.8
8000
7000
6000
5000
4000
3000
2000
1000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_atl1r2_avg_correction_mean vs run
χ² / ndf 7.921 / 11
p0 757.1 ± 536.6
8000
6000
4000
2000
0
−2000
−4000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
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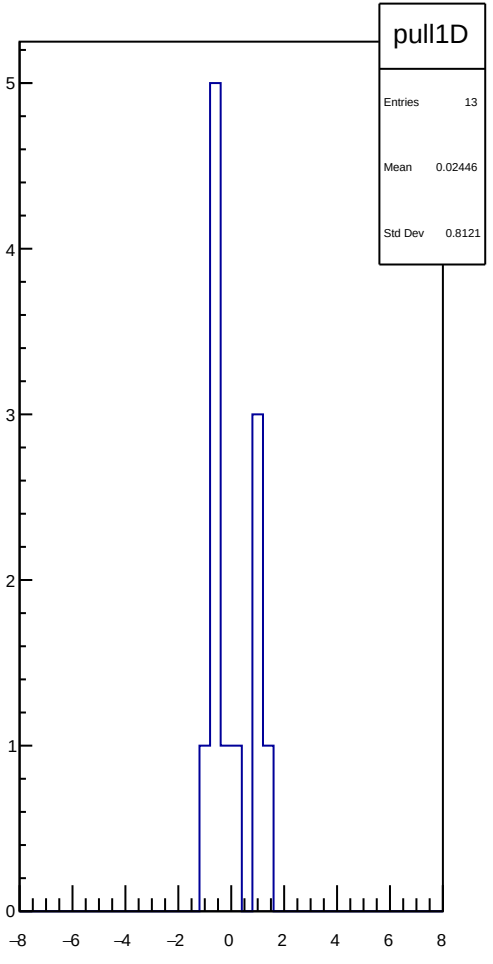
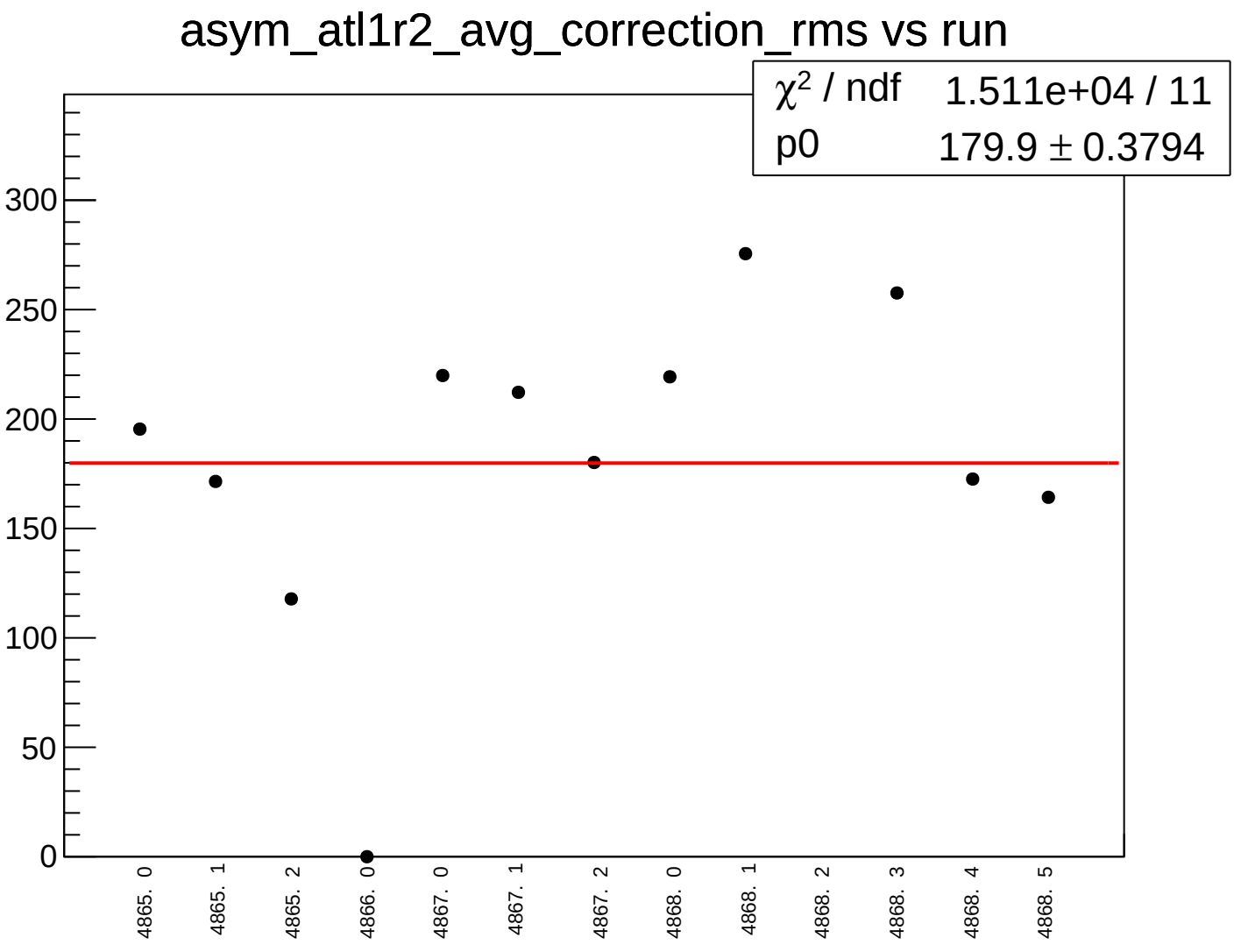
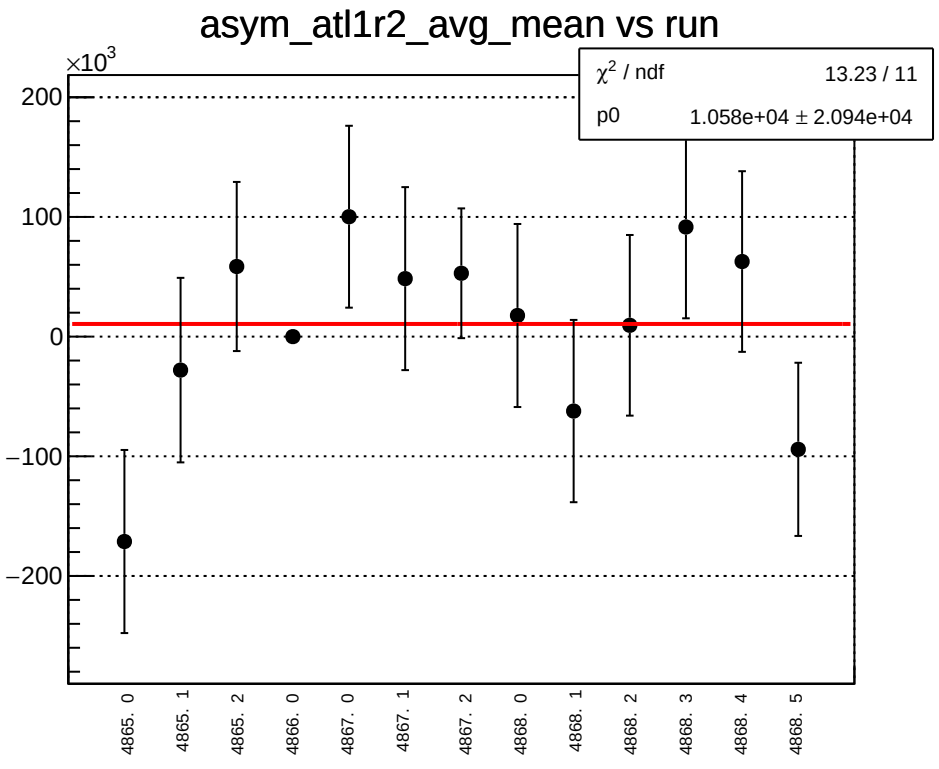
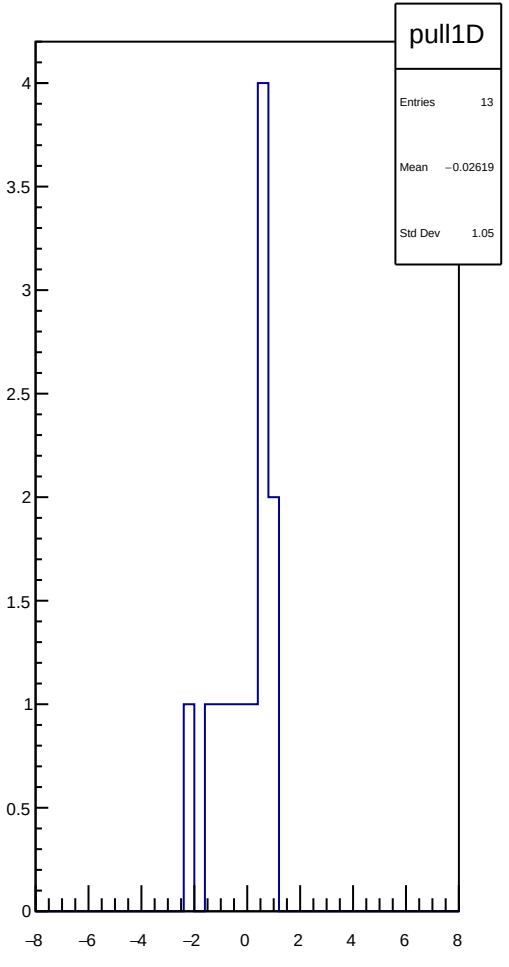
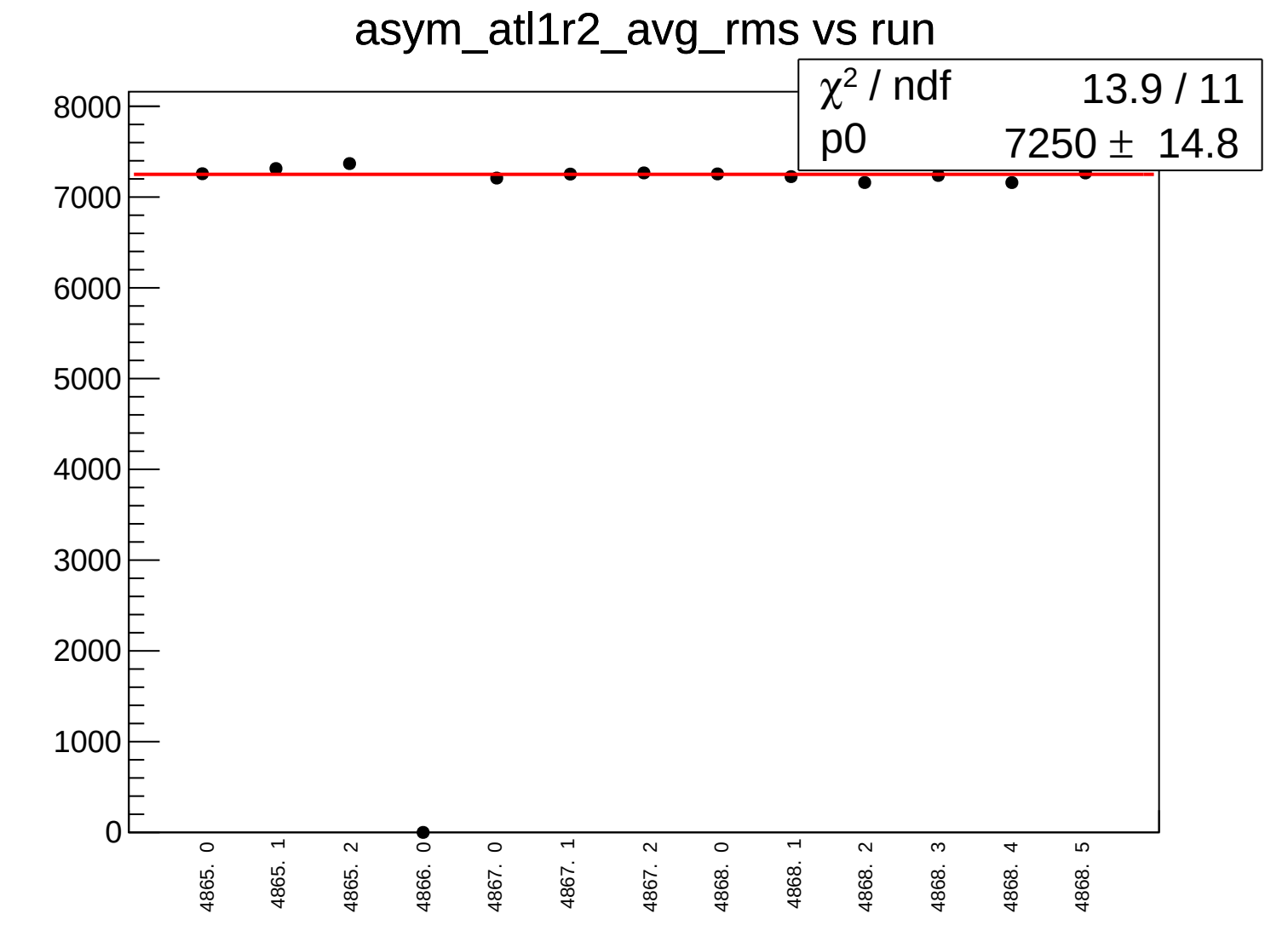
4868. 2
4868. 3
4868. 4
4868. 5

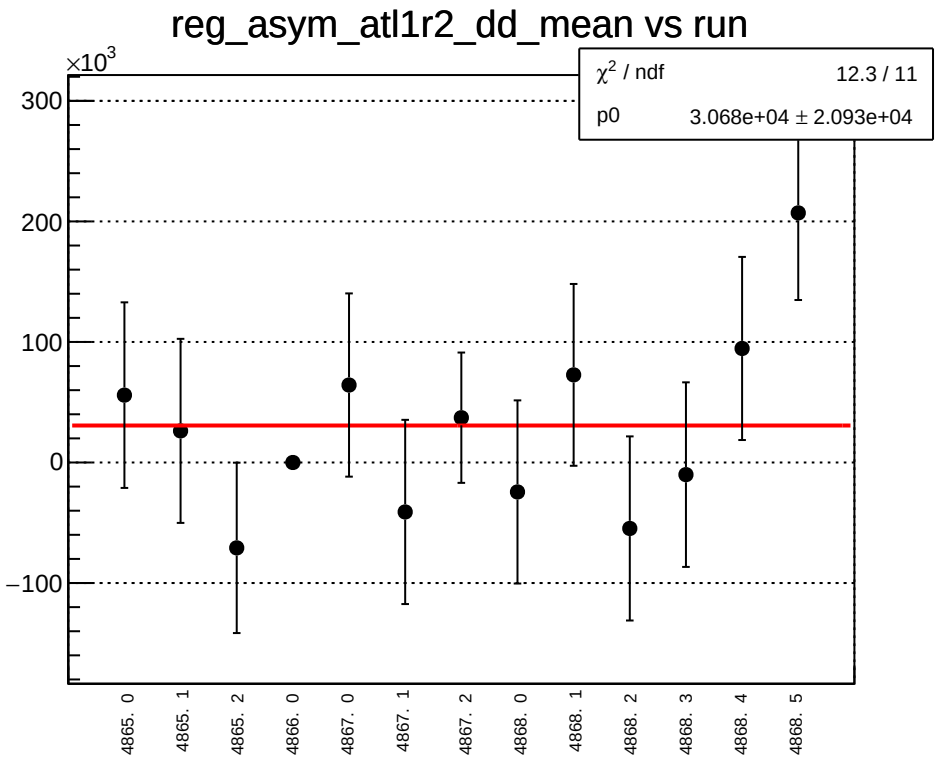

pull1D
Entries 13
Mean 0.02446
Std Dev 0.8121
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

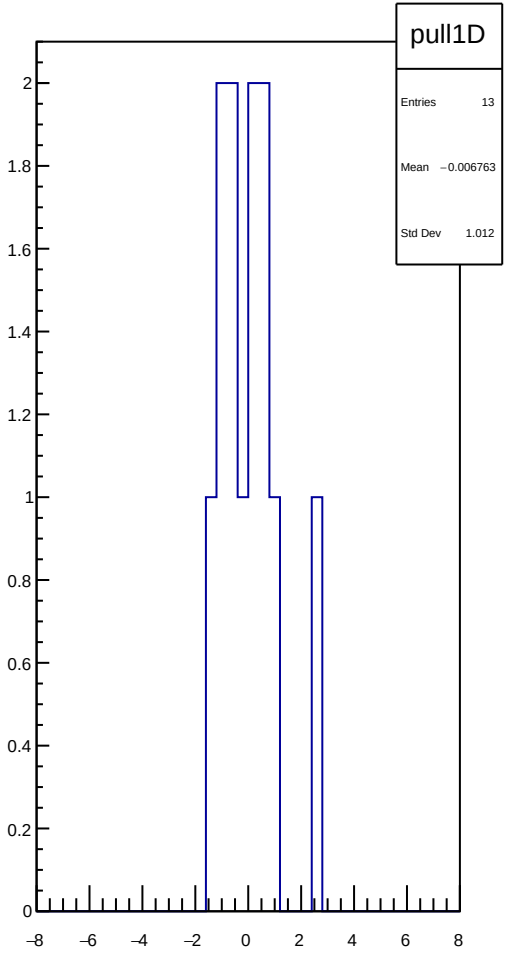

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 1.511e+04 / 11
p0 179.9 ± 0.3794
300
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

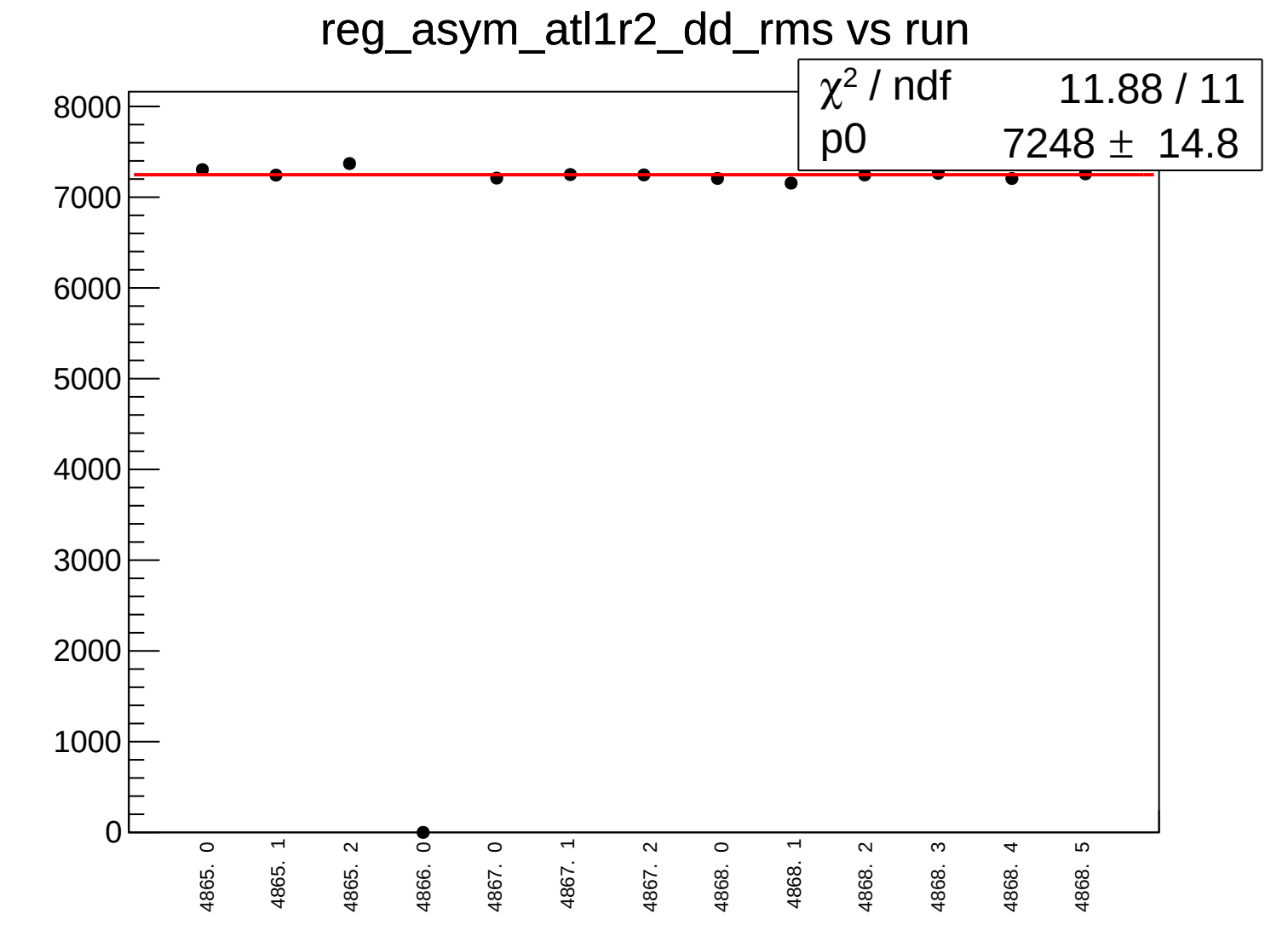

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 13.23 / 11
p0 1.058e+04 ± 2.094e+04
200
100
0
−100
−200
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

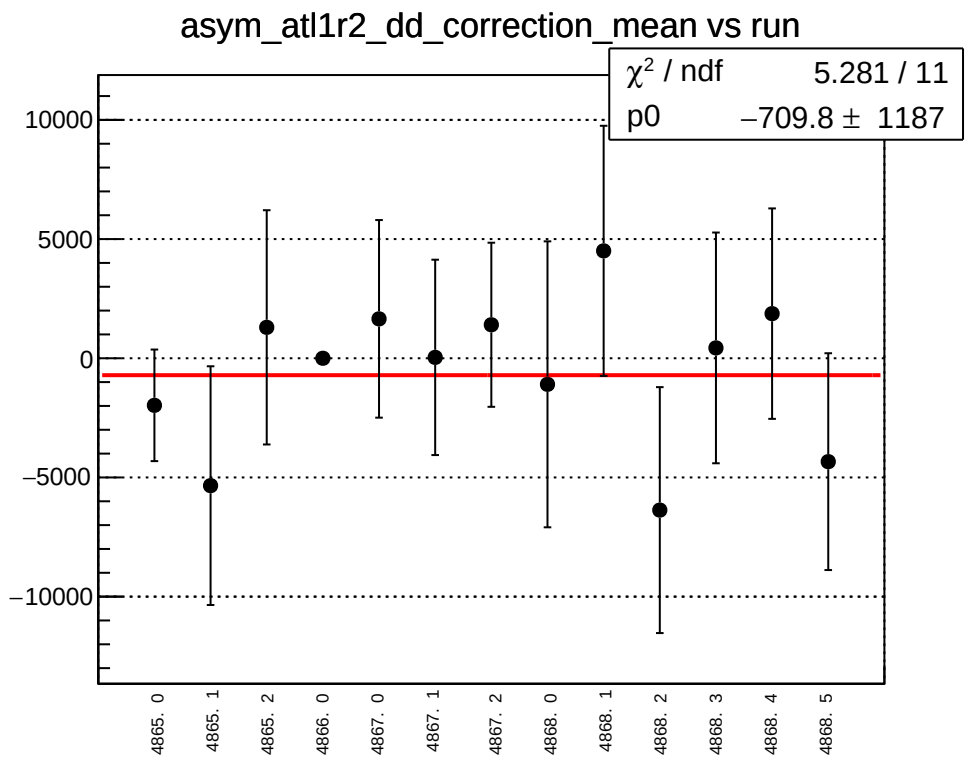

pull1D
Entries 13
Mean −0.02619
Std Dev 1.05
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

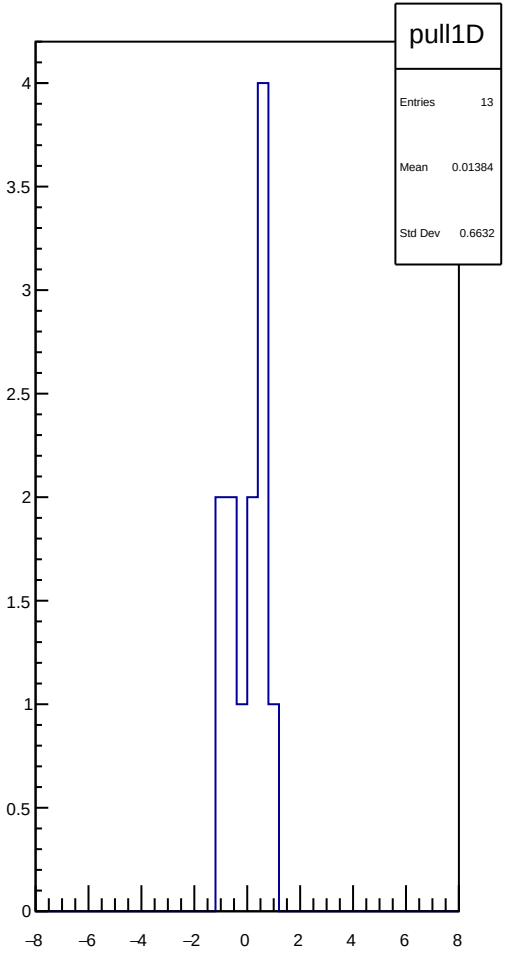

asym_atl1r2_avg_rms vs run
χ² / ndf 13.9 / 11
p0 7250 ± 14.8
8000
7000
6000
5000
4000
3000
2000
1000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

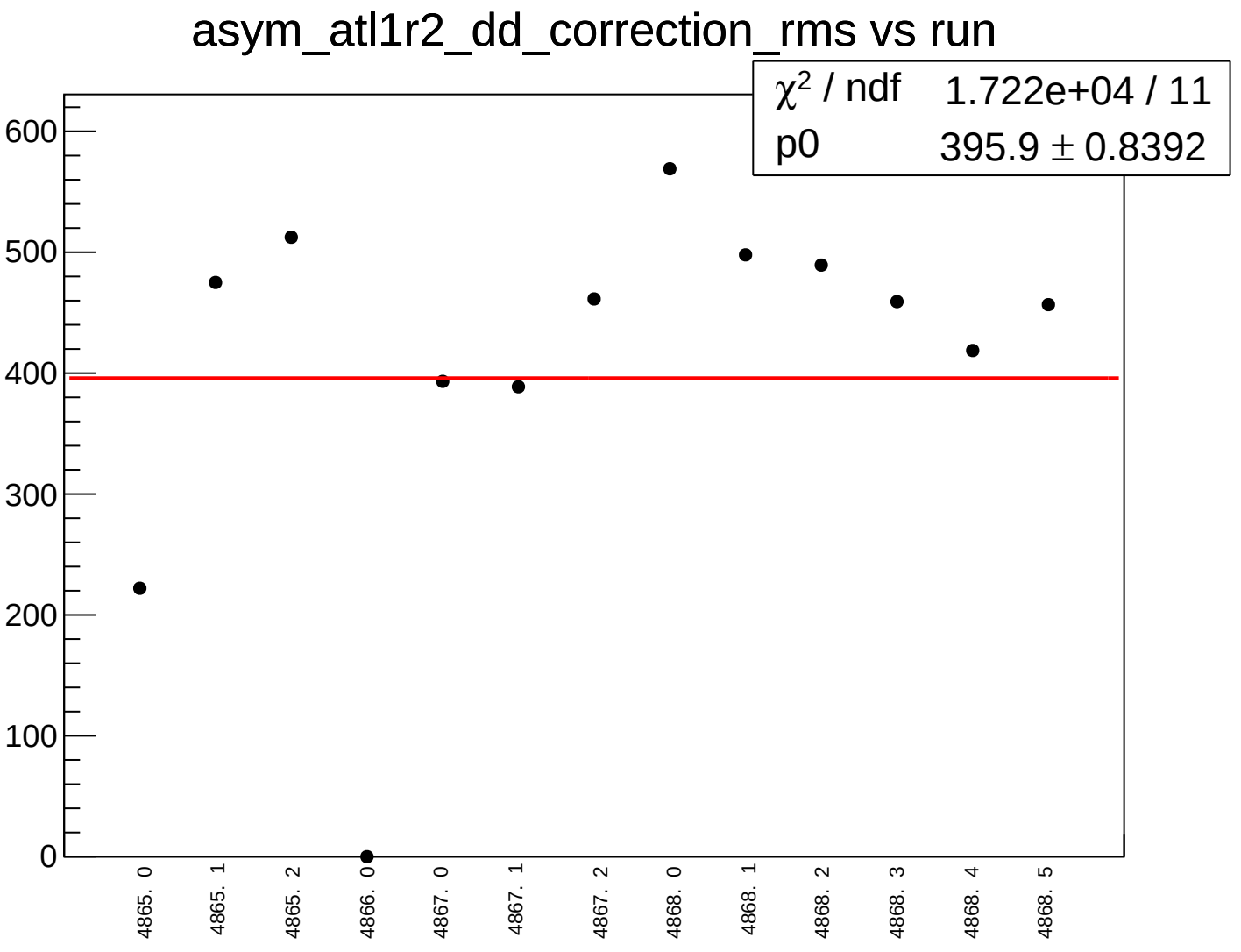

reg_asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 12.3 / 11
p0 3.068e+04 ± 2.093e+04
300
200
100
0
−100
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

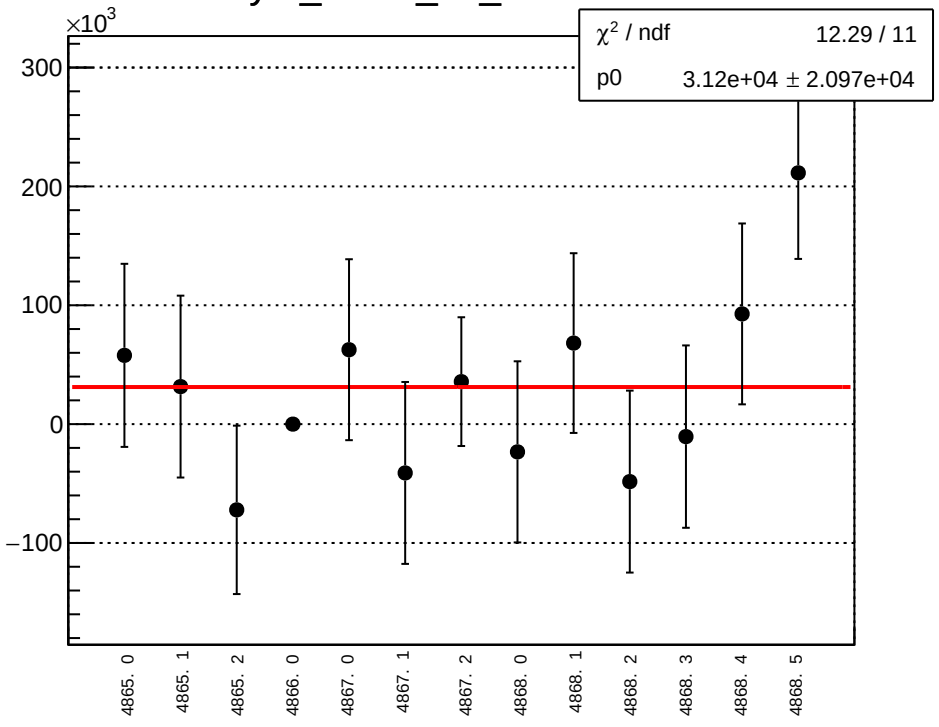

pull1D
Entries 13
Mean −0.006763
Std Dev 1.012
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

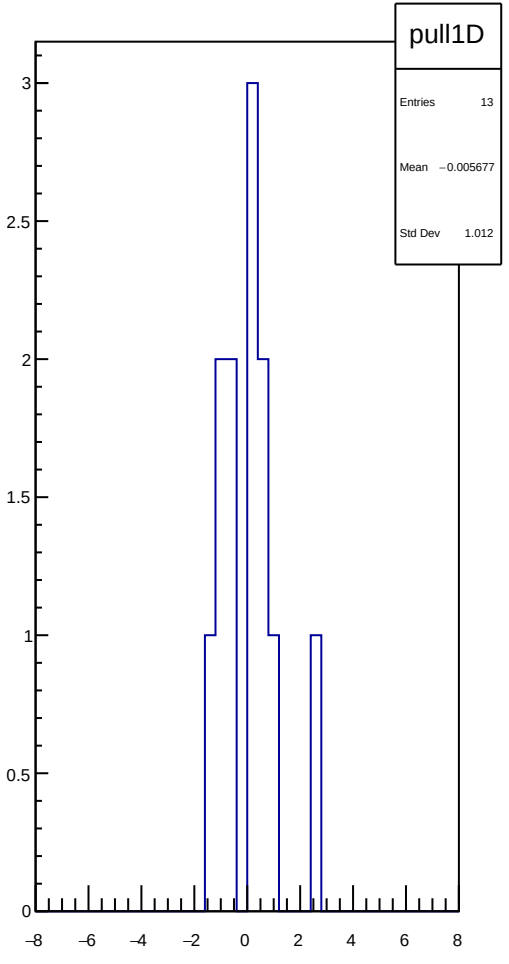

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 11.88 / 11
p0 7248 ± 14.8
8000
7000
6000
5000
4000
3000
2000
1000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

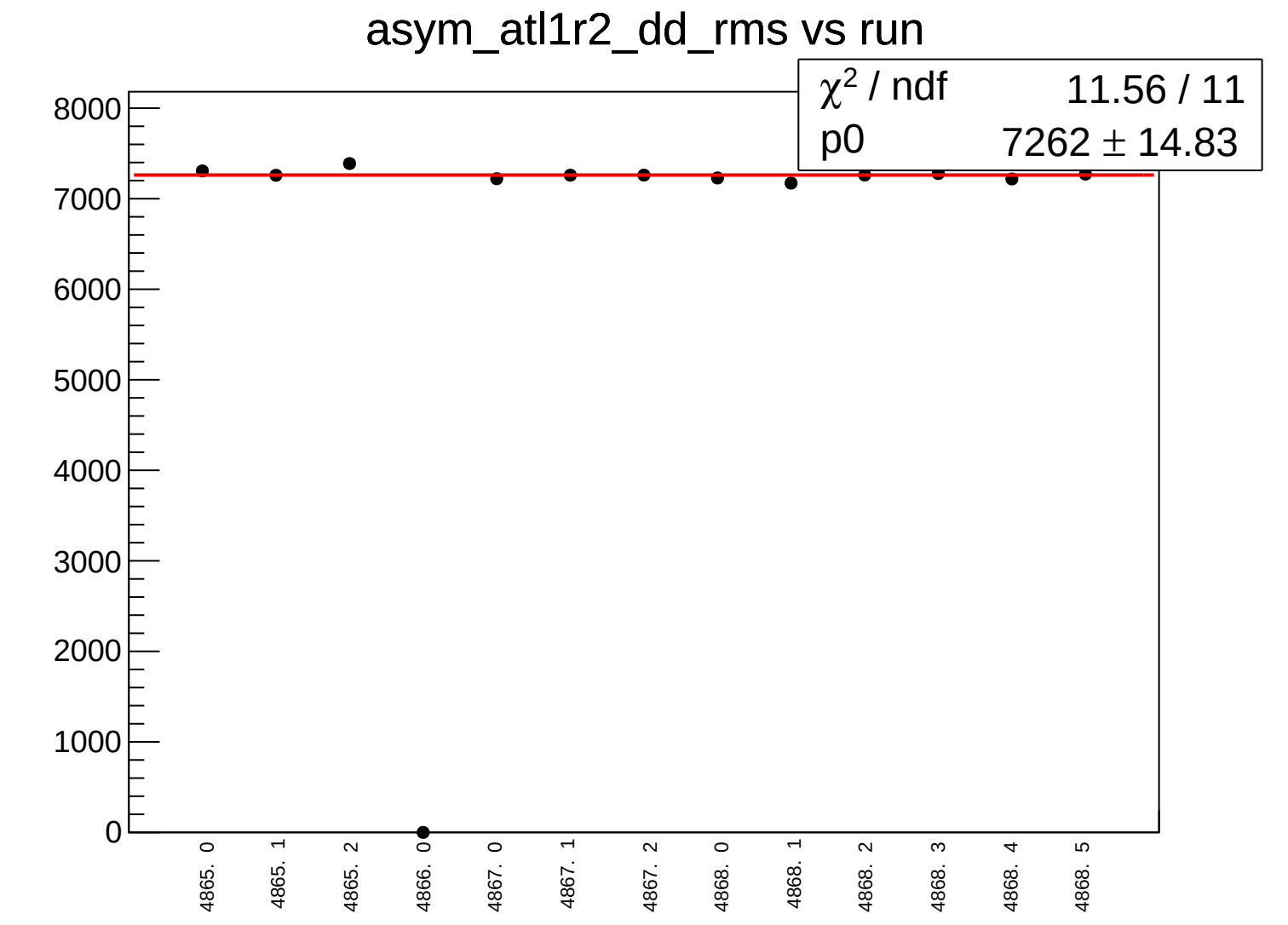

asym_atl1r2_dd_correction_mean vs run
χ² / ndf 5.281 / 11
p0 −709.8 ± 1187
10000
5000
0
−5000
−10000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.01384
Std Dev 0.6632
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_correction_rms vs run
χ² / ndf 1.722e+04 / 11
p0 395.9 ± 0.8392
600
500
400
300
200
100
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 12.29 / 11
p0 3.12e+04 ± 2.097e+04
300
200
100
0
−100
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.005677
Std Dev 1.012
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_rms vs run
χ² / ndf 11.56 / 11
p0 7262 ± 14.83
8000
7000
6000
5000
4000
3000
2000
1000
0
4865. 0
4865. 1
4865. 2
4866. 0
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4867. 1
4867. 2
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4868. 2
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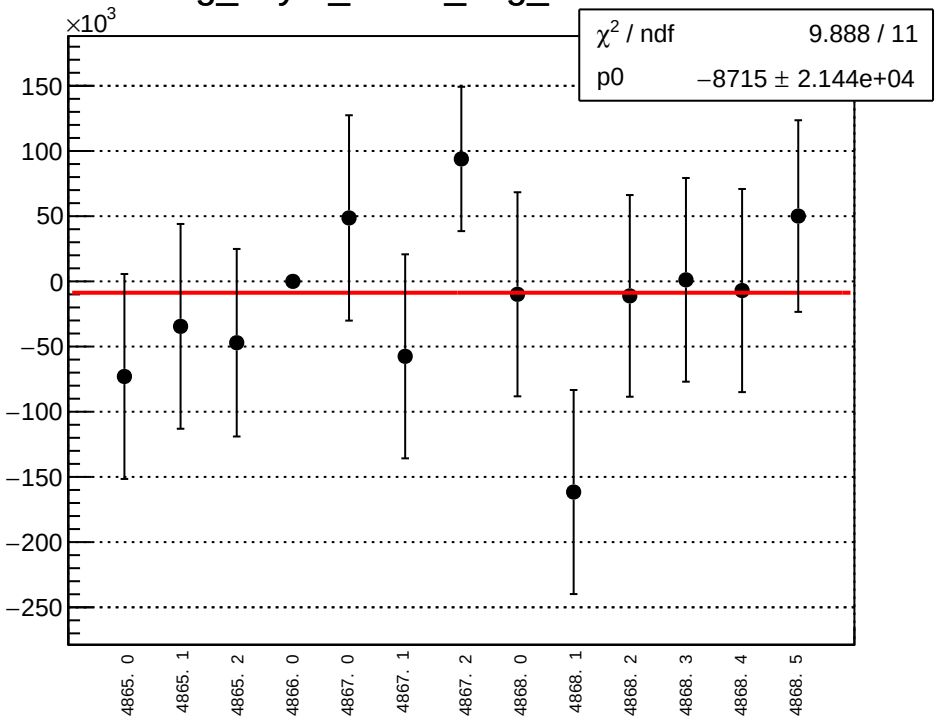
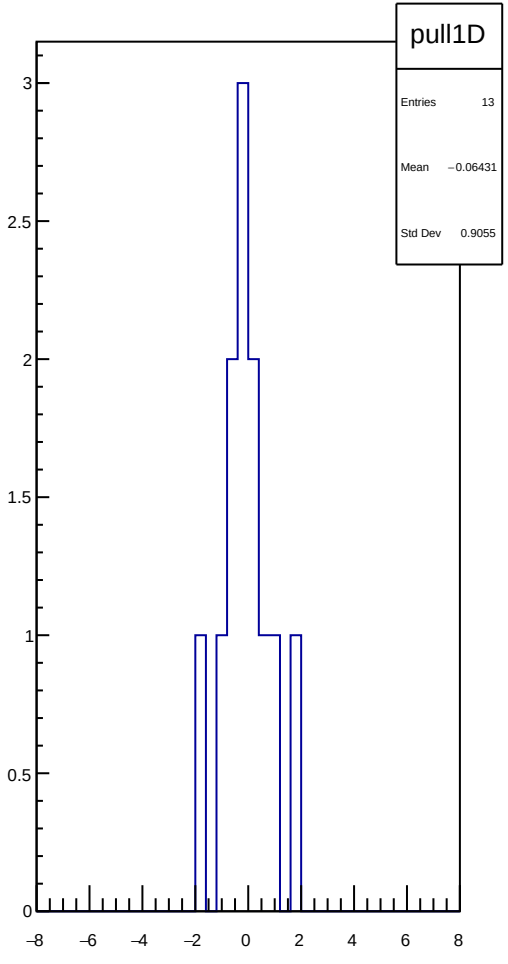
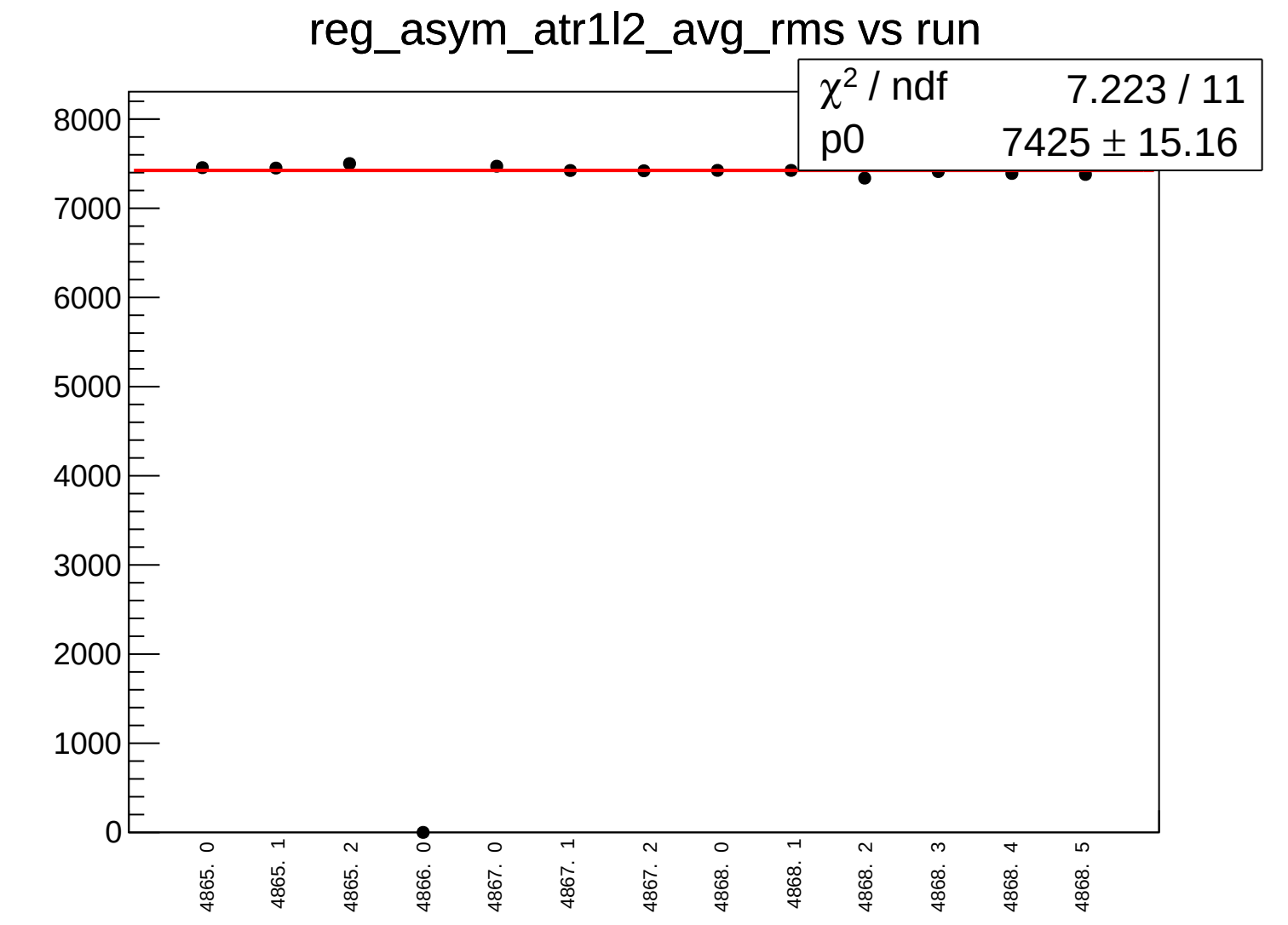
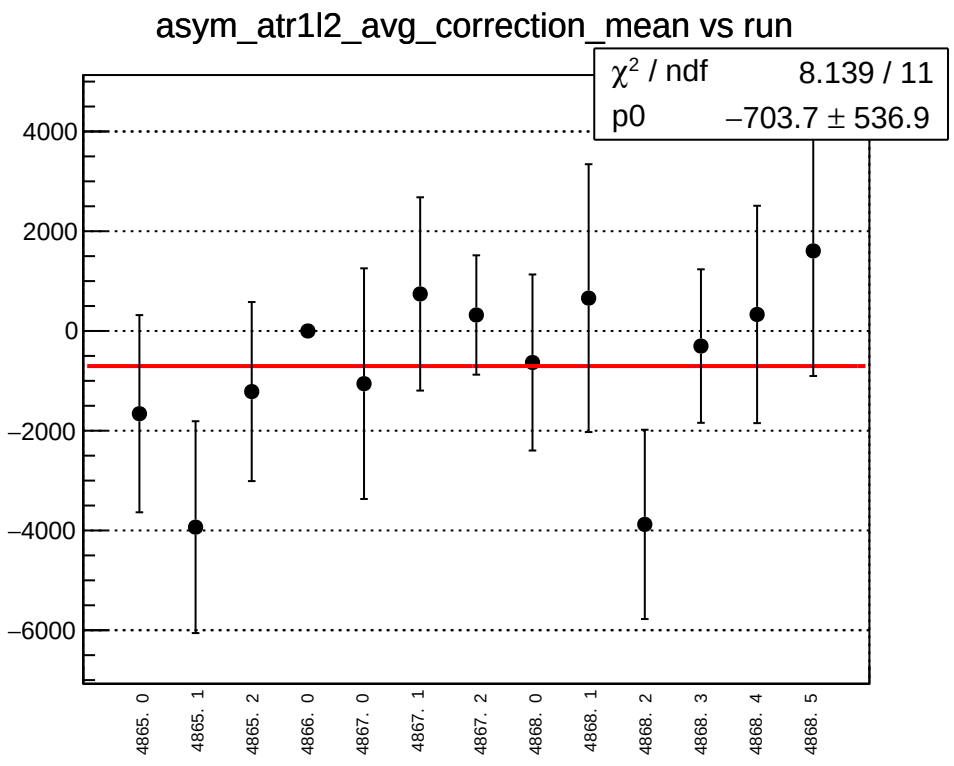
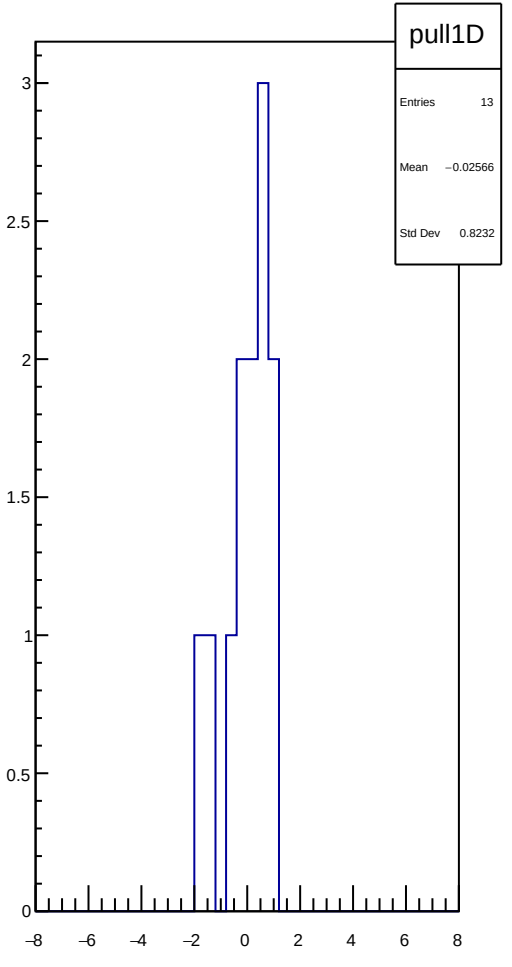
4868. 4
4868. 5

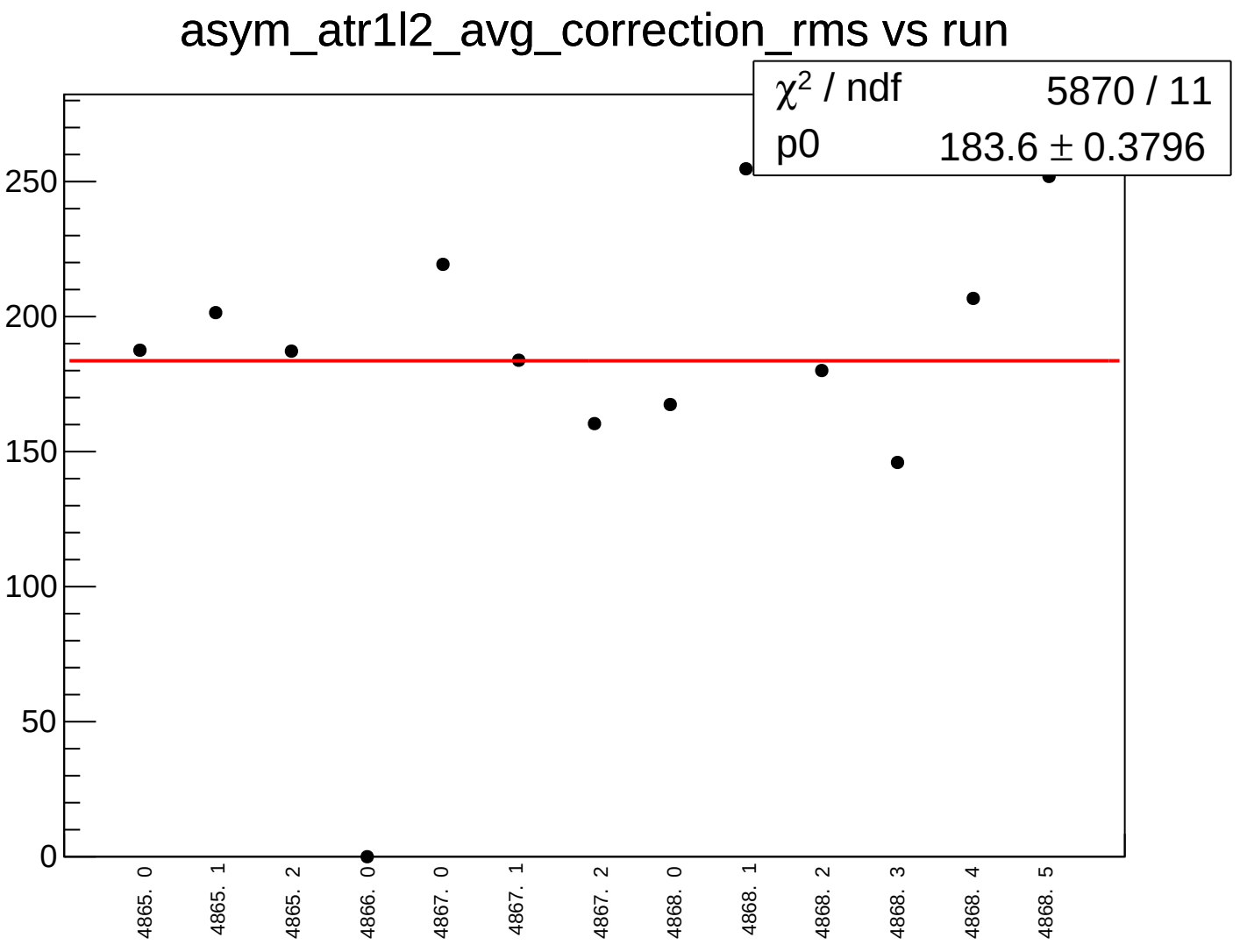

reg_asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 9.888 / 11
p0 −8715 ± 2.144e+04
150
100
50
0
−50
−100
−150
−200
−250
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

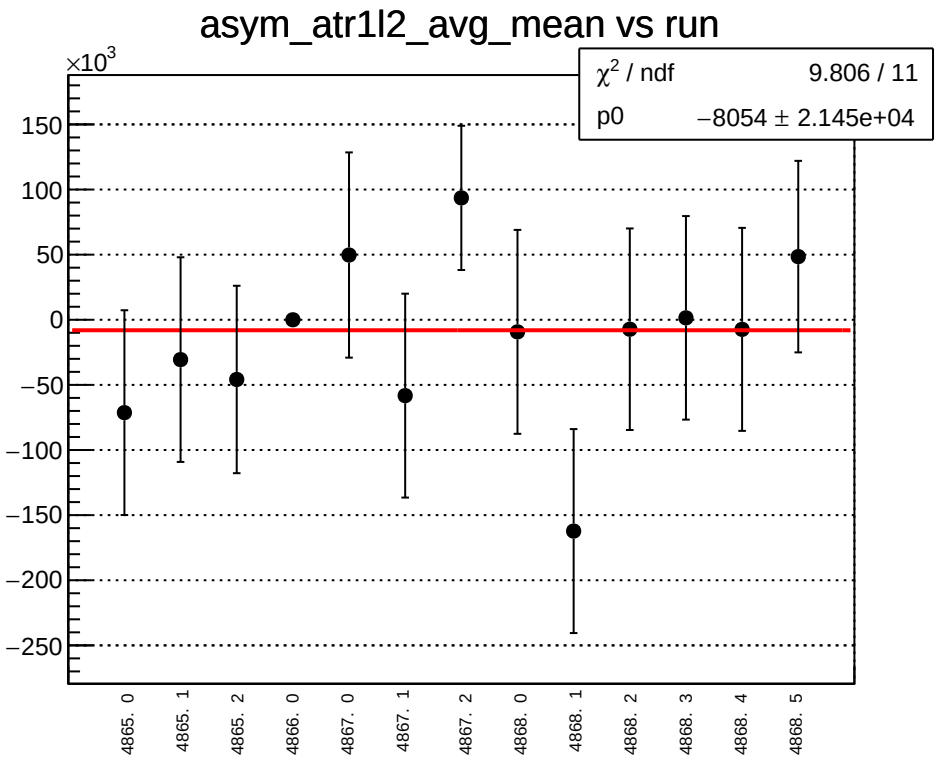

pull1D
Entries 13
Mean −0.06431
Std Dev 0.9055
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

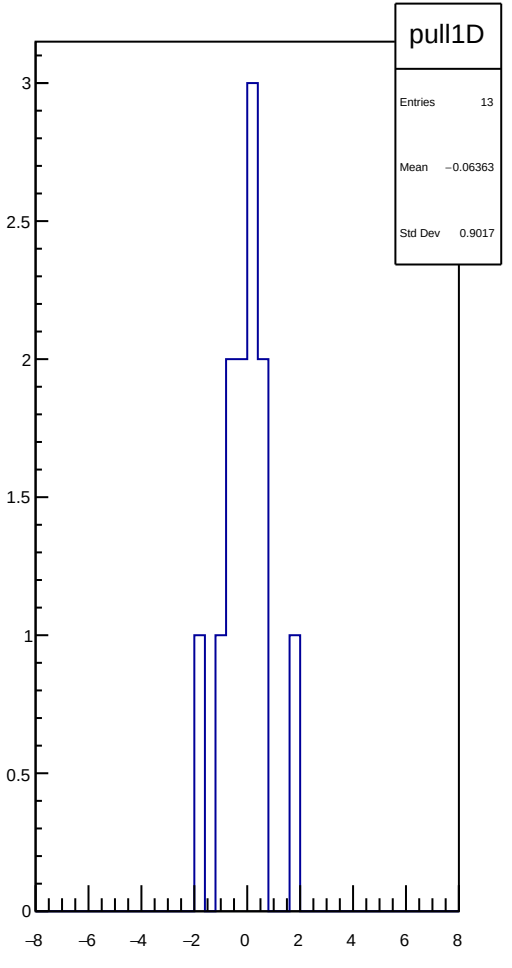

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 7.223 / 11
p0 7425 ± 15.16
8000
7000
6000
5000
4000
3000
2000
1000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

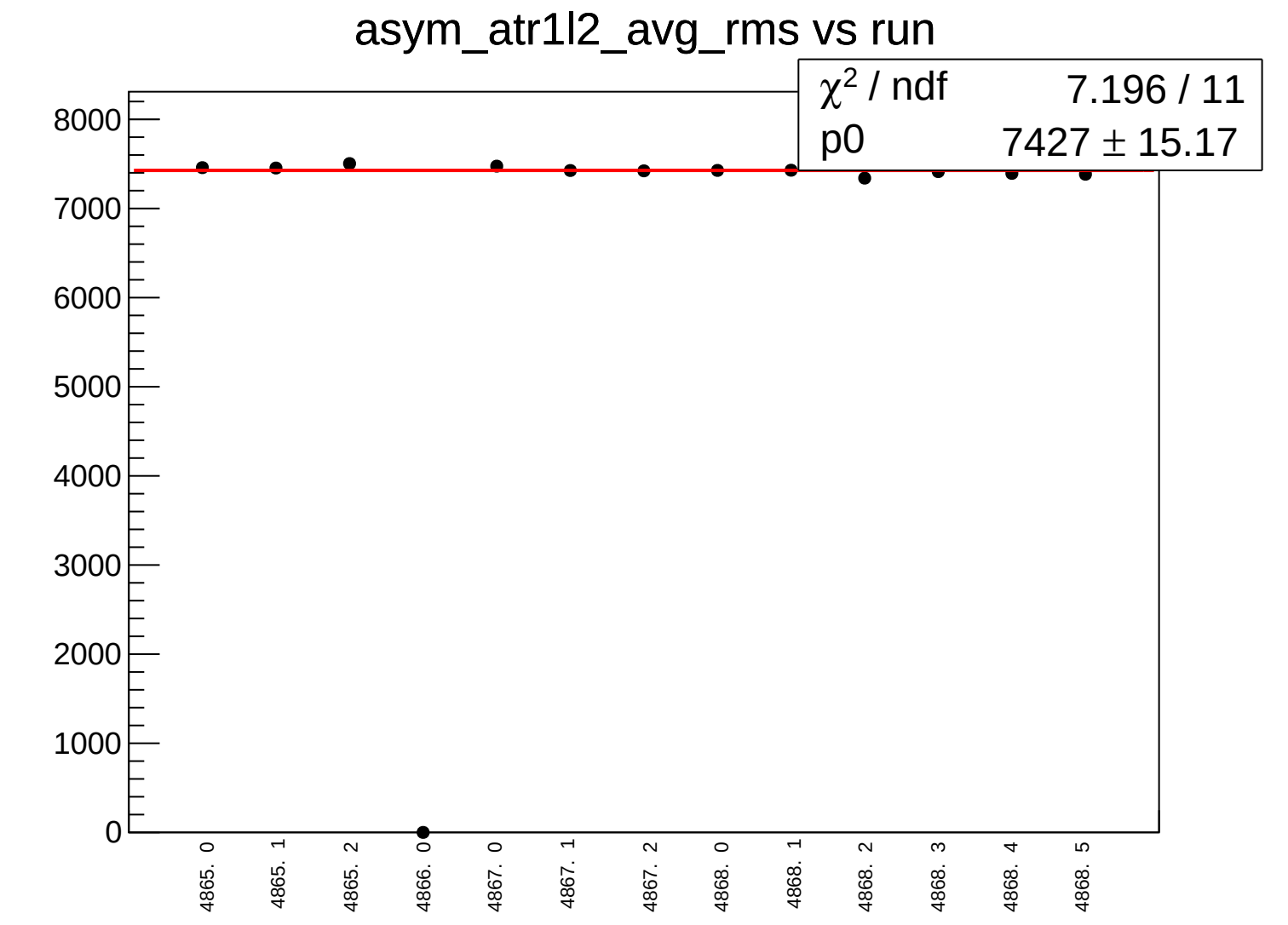

asym_atr1l2_avg_correction_mean vs run
χ² / ndf 8.139 / 11
p0 −703.7 ± 536.9
4000
2000
0
−2000
−4000
−6000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

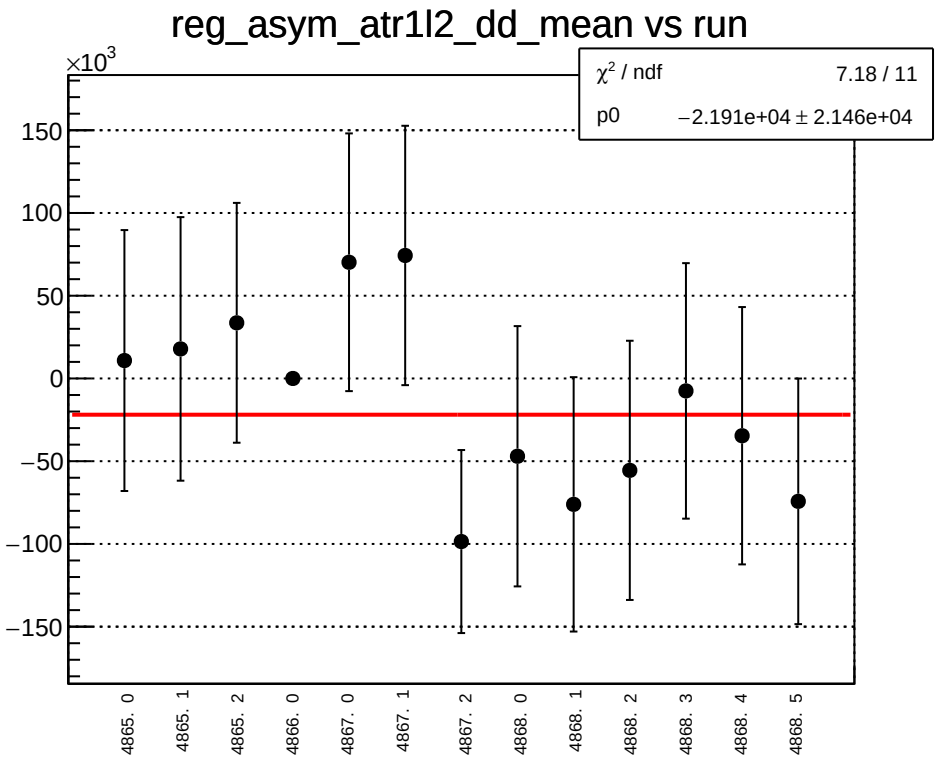

pull1D
Entries 13
Mean −0.02566
Std Dev 0.8232
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_avg_correction_rms vs run
χ² / ndf 5870 / 11
p0 183.6 ± 0.3796
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 9.806 / 11
p0 −8054 ± 2.145e+04
150
100
50
0
−50
−100
−150
−200
−250
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.06363
Std Dev 0.9017
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_avg_rms vs run
χ² / ndf 7.196 / 11
p0 7427 ± 15.17
8000
7000
6000
5000
4000
3000
2000
1000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


reg_asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 7.18 / 11
p0 −2.191e+04 ± 2.146e+04
150
100
50
0
−50
−100
−150
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
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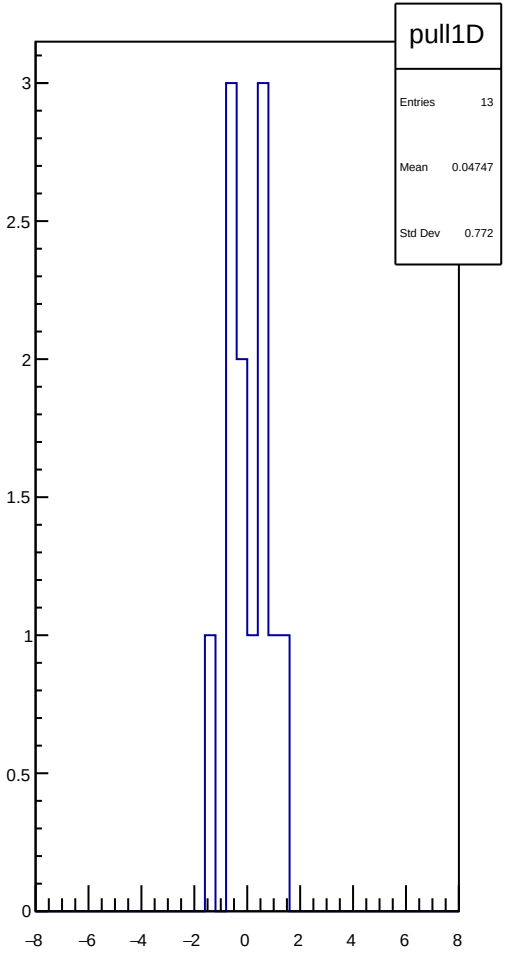
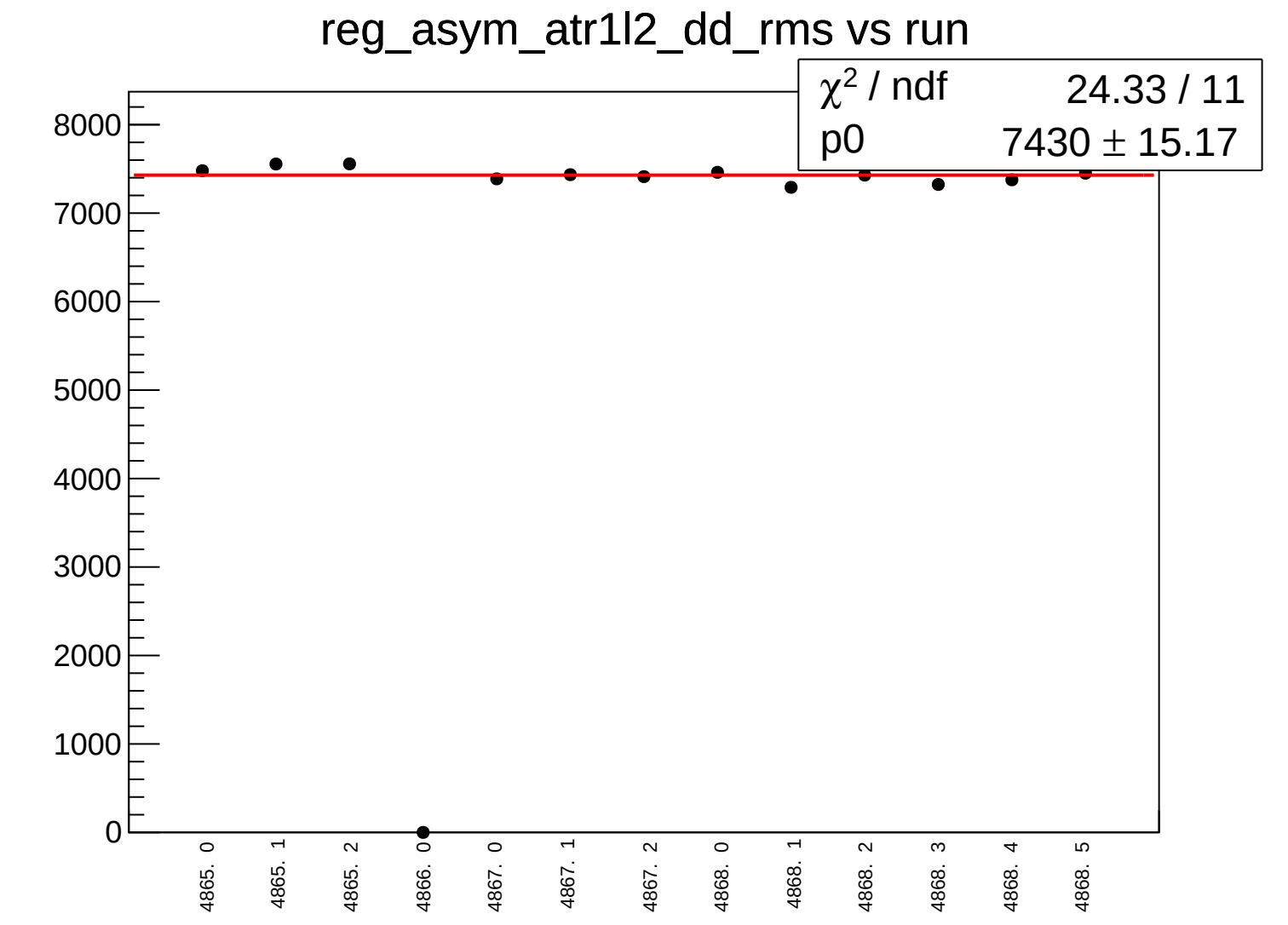
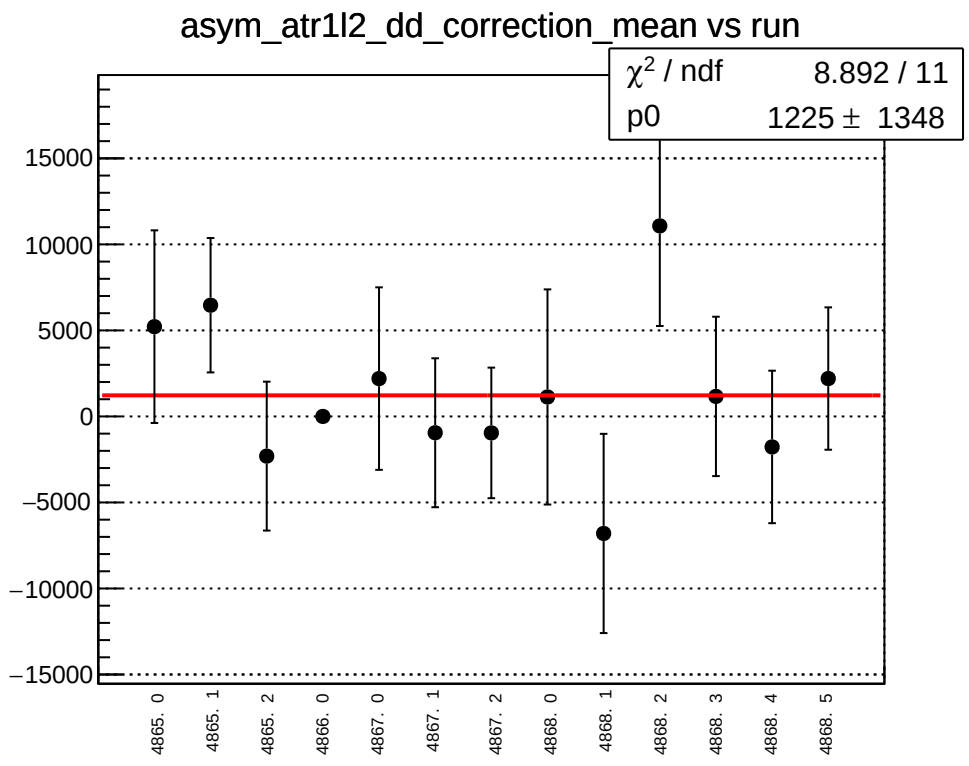
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.04747
Std Dev 0.772
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_dd_rms vs run
χ² / ndf 24.33 / 11
p0 7430 ± 15.17
8000
7000
6000
5000
4000
3000
2000
1000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_atr1l2_dd_correction_mean vs run
χ² / ndf 8.892 / 11
p0 1225 ± 1348
15000
10000
5000
0
−5000
−10000
−15000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
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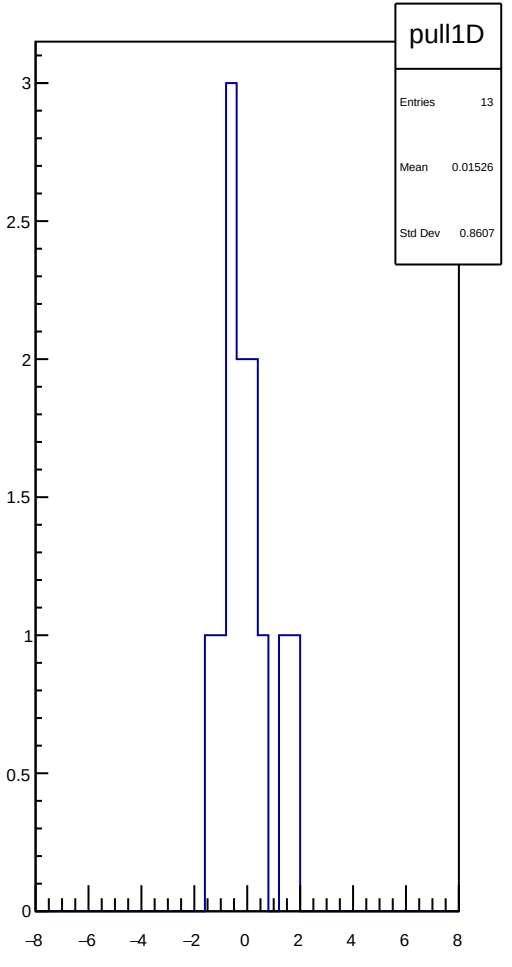
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.01526
Std Dev 0.8607
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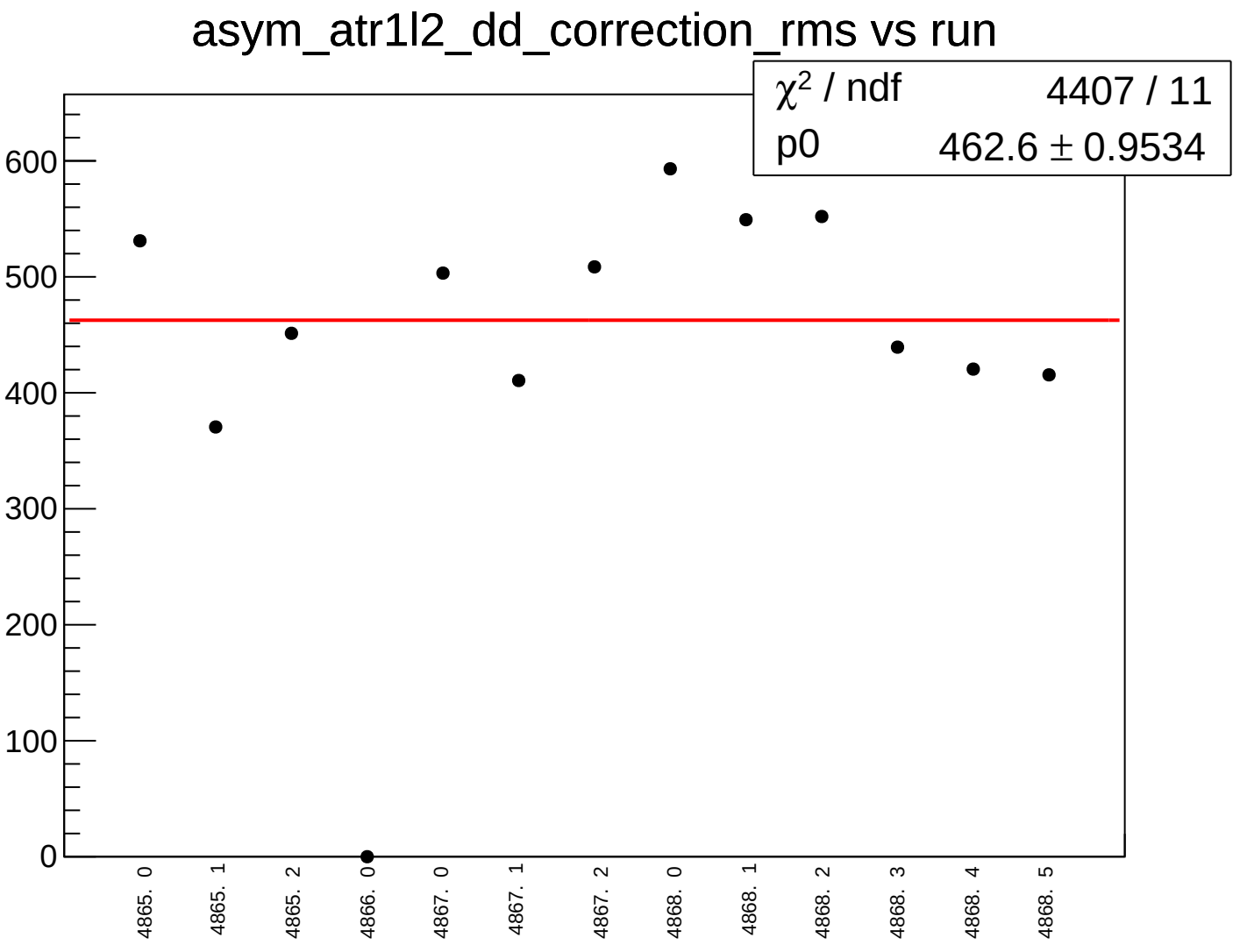
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_dd_correction_rms vs run
χ² / ndf 4407 / 11
p0 462.6 ± 0.9534
600
500
400
300
200
100
0
4865. 0
4865. 1
4865. 2
4866. 0
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4867. 1
4867. 2
4868. 0
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4868. 2
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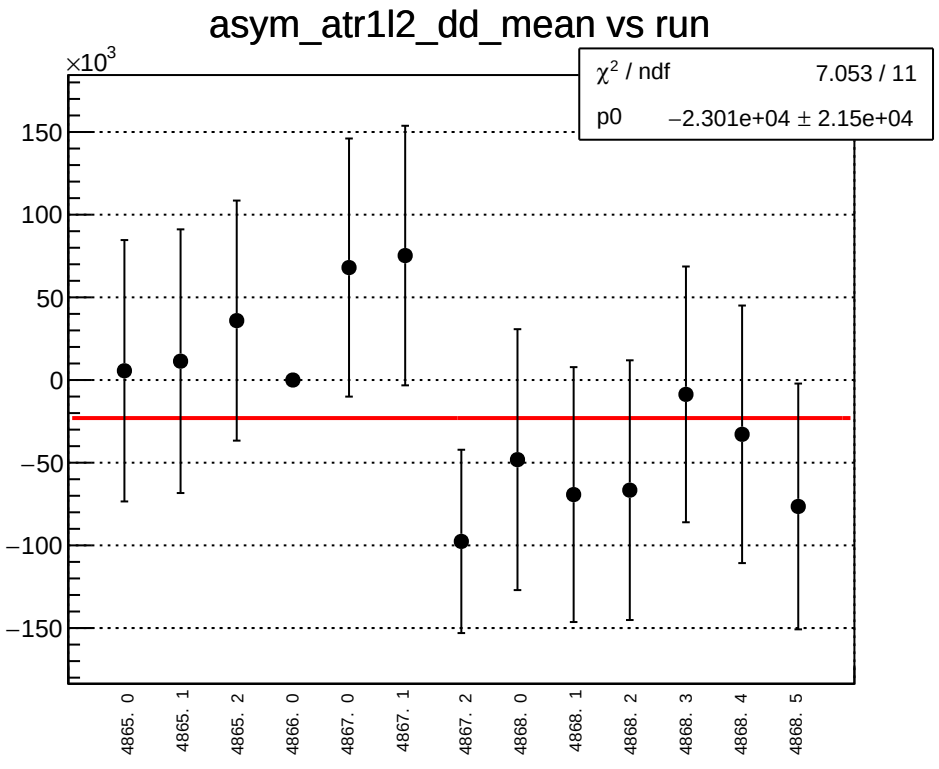
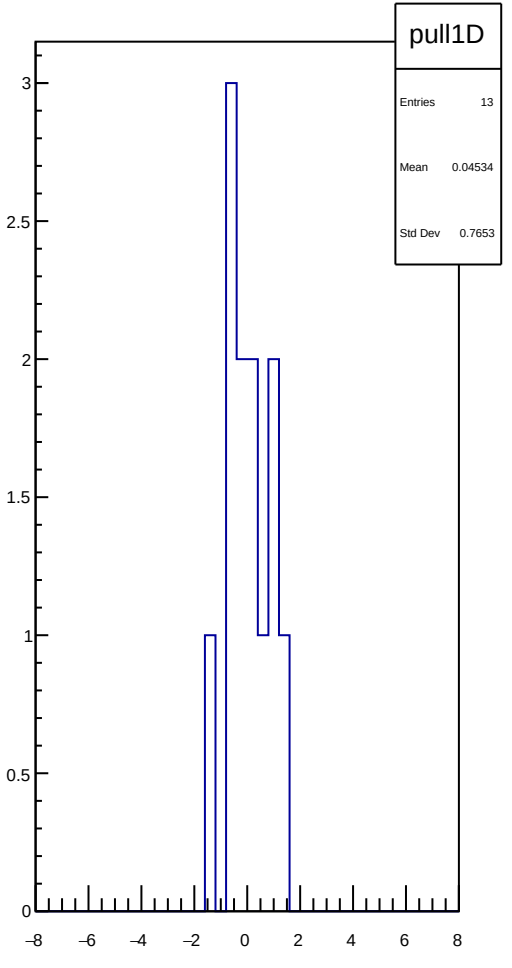
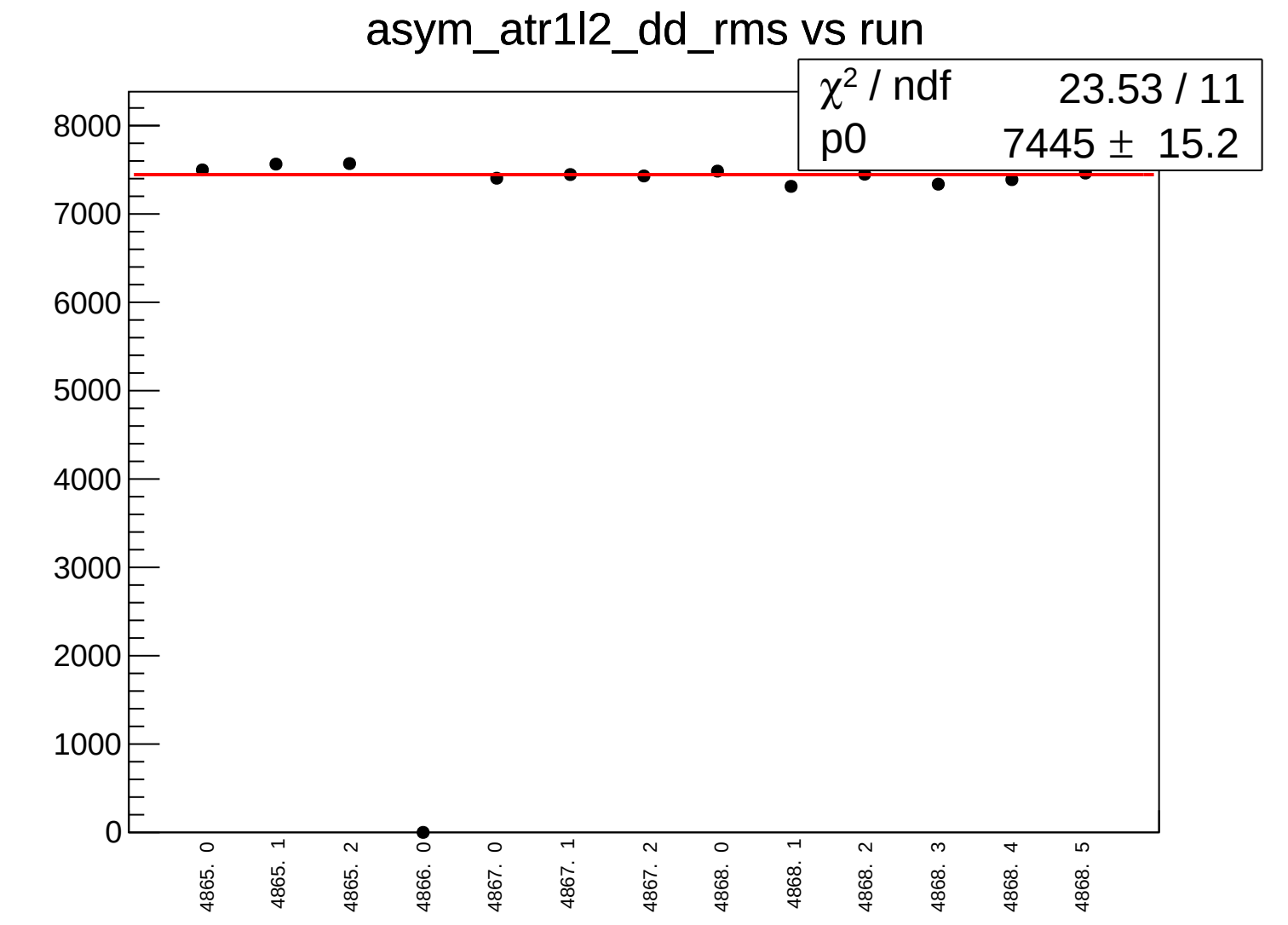
4868. 4
4868. 5


asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 7.053 / 11
p0 −2.301e+04 ± 2.15e+04
150
100
50
0
−50
−100
−150
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.04534
Std Dev 0.7653
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_dd_rms vs run
χ² / ndf 23.53 / 11
p0 7445 ± 15.2
8000
7000
6000
5000
4000
3000
2000
1000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
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4868. 2
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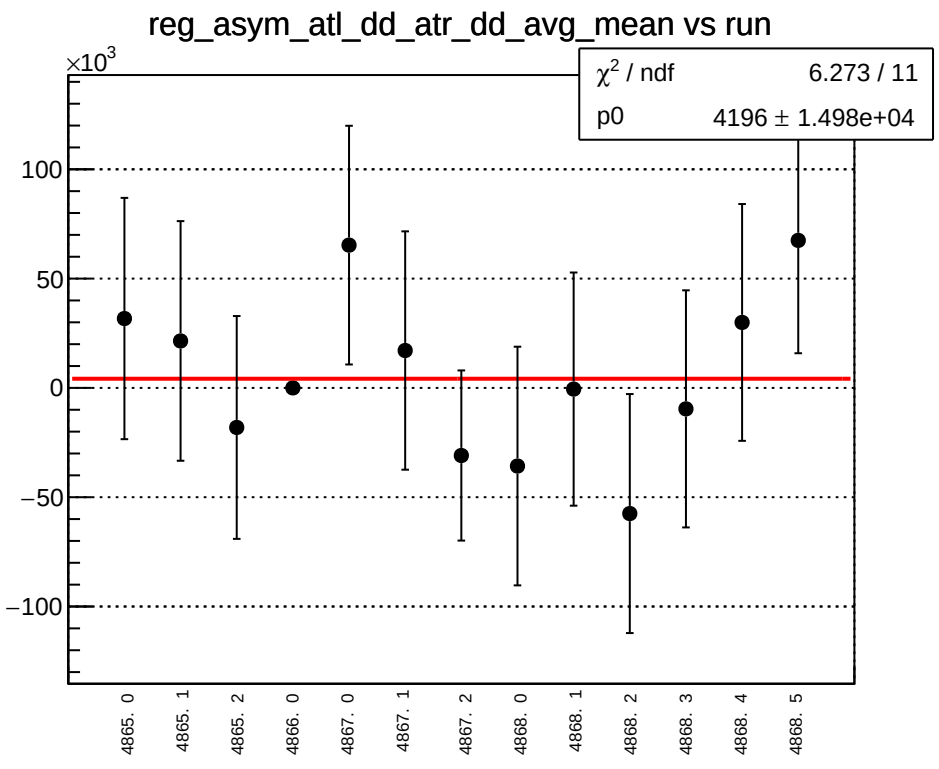
4868. 4
4868. 5


reg_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 6.273 / 11
p0 4196 ± 1.498e+04
100
50
0
−50
−100
4865. 0
4865. 1
4865. 2
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4867. 1
4867. 2
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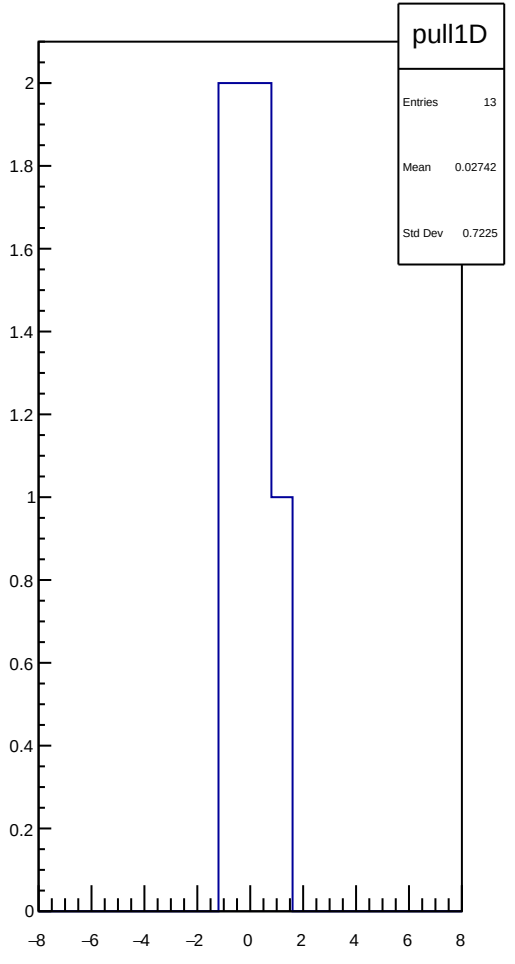
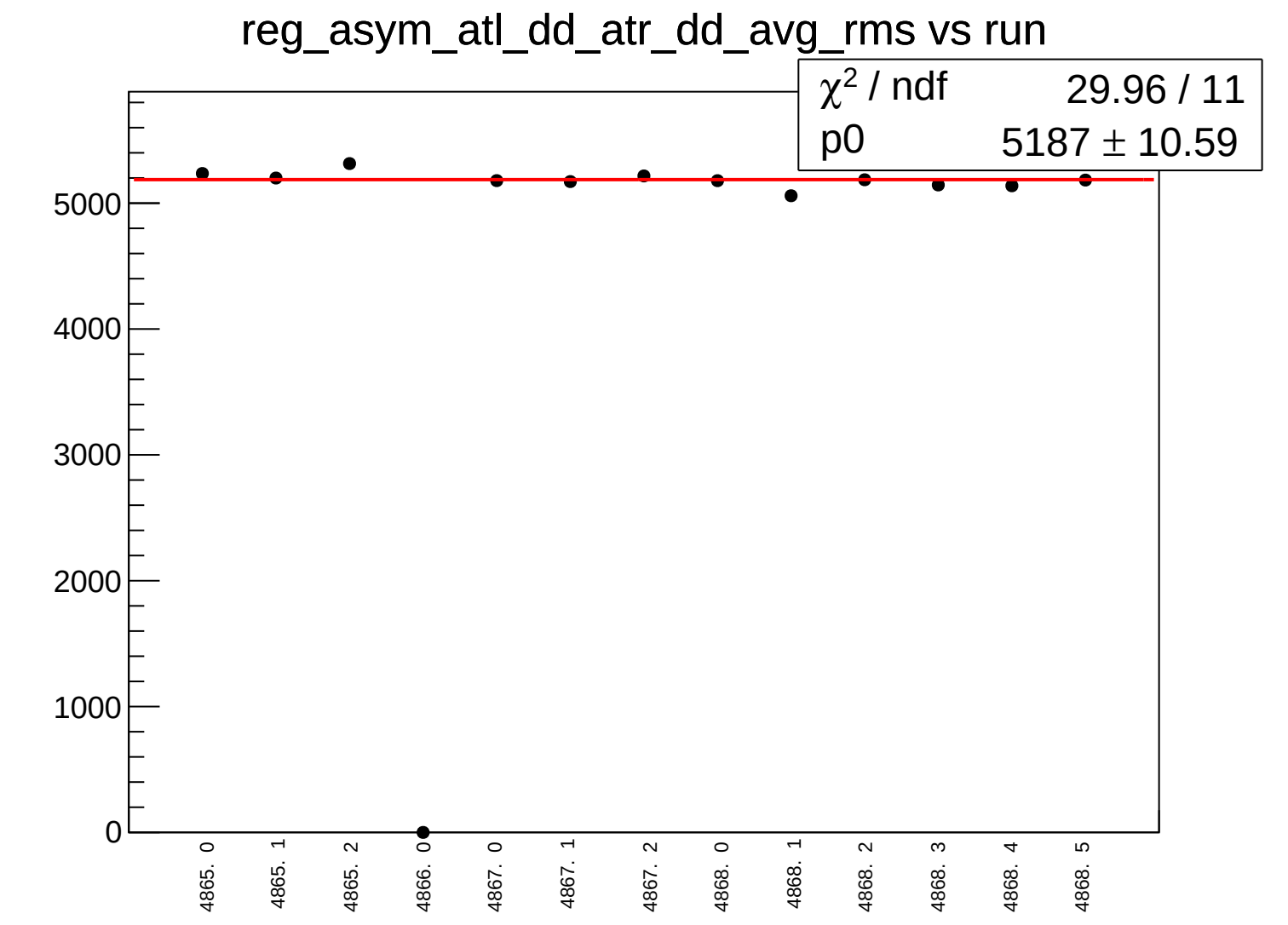
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.02742
Std Dev 0.7225
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 29.96 / 11
p0 5187 ± 10.59
5000
4000
3000
2000
1000
0
4865. 0
4865. 1
4865. 2
4866. 0
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4867. 1
4867. 2
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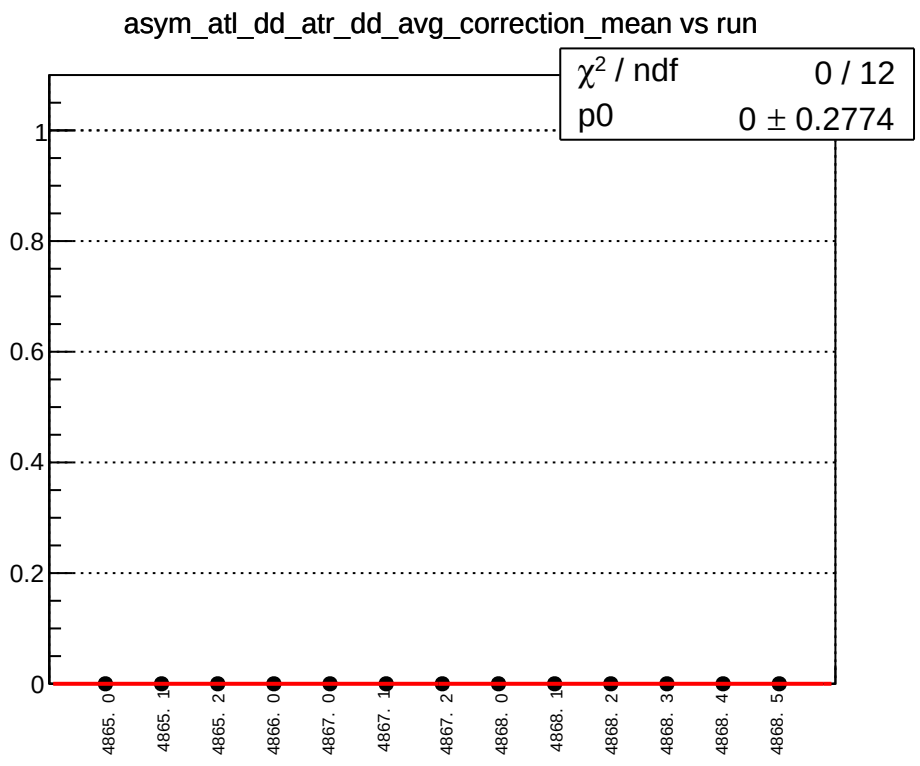
4868. 4
4868. 5


asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 12
p0 0 ± 0.2774
1
0.8
0.6
0.4
0.2
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
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4868. 2
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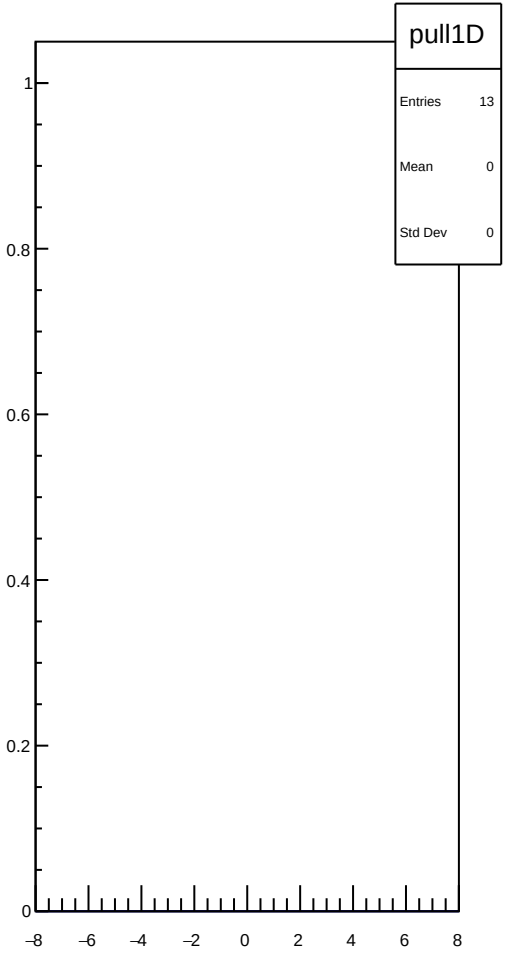
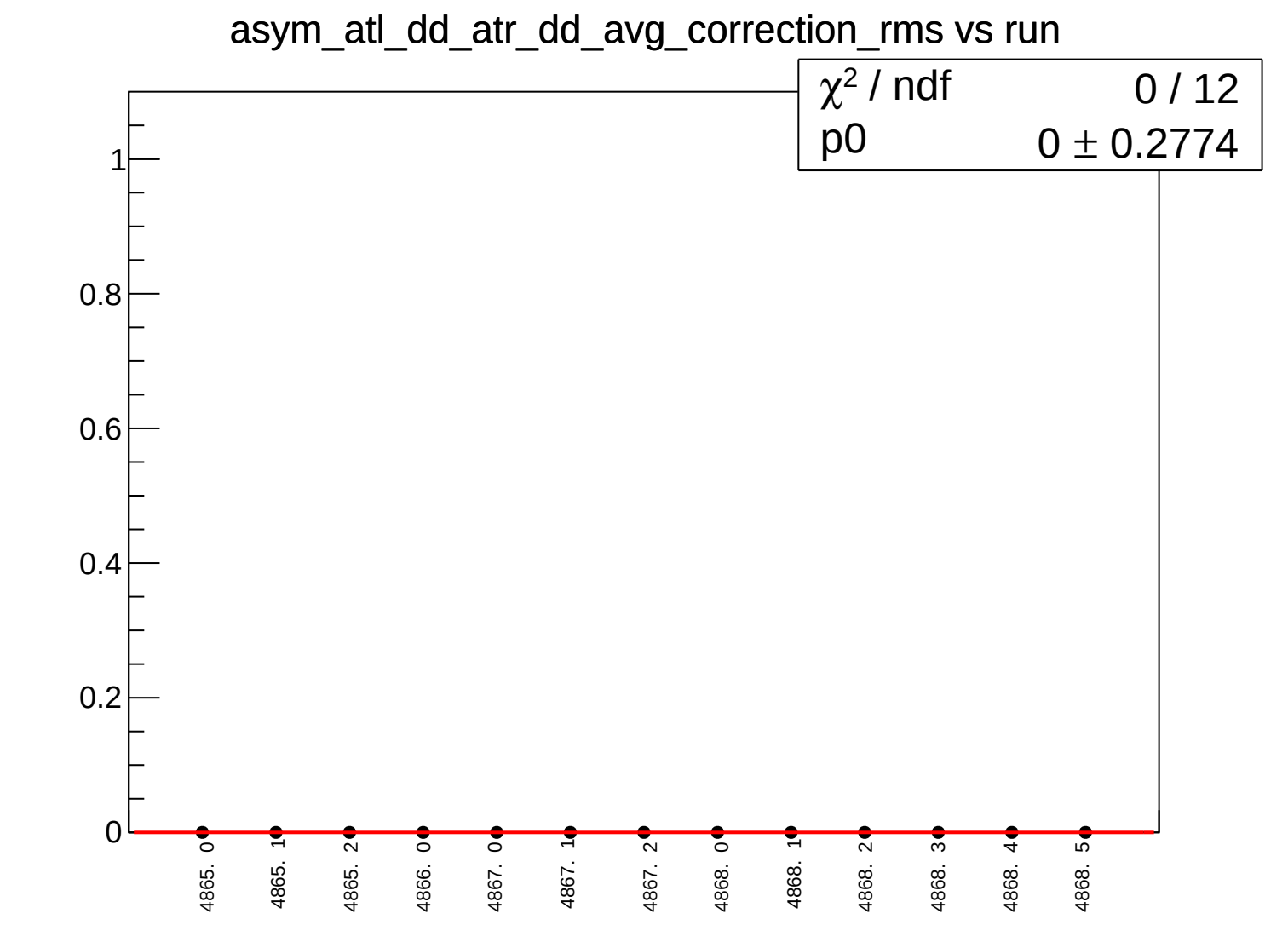
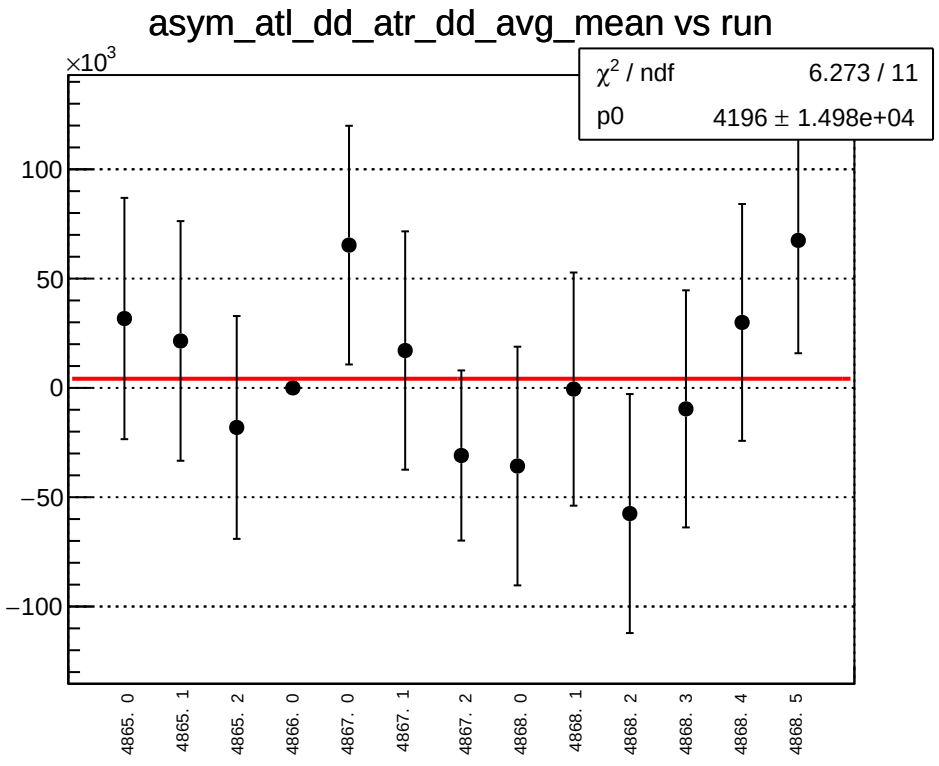
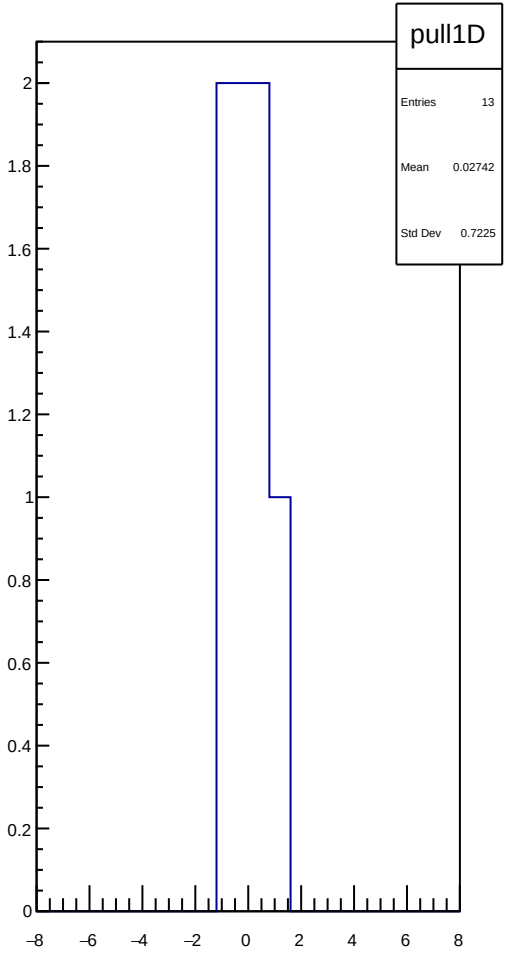
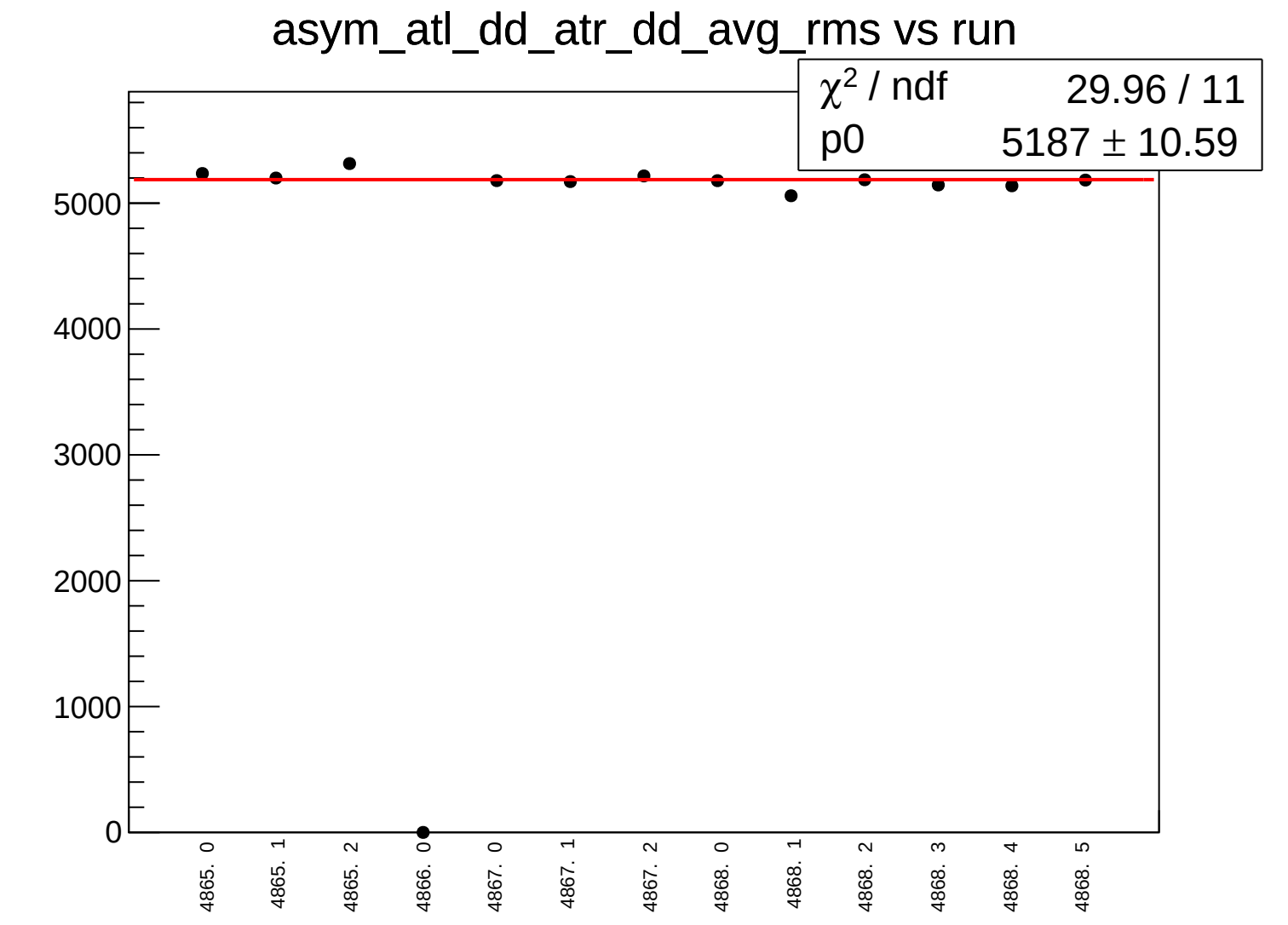
4868. 4
4868. 5

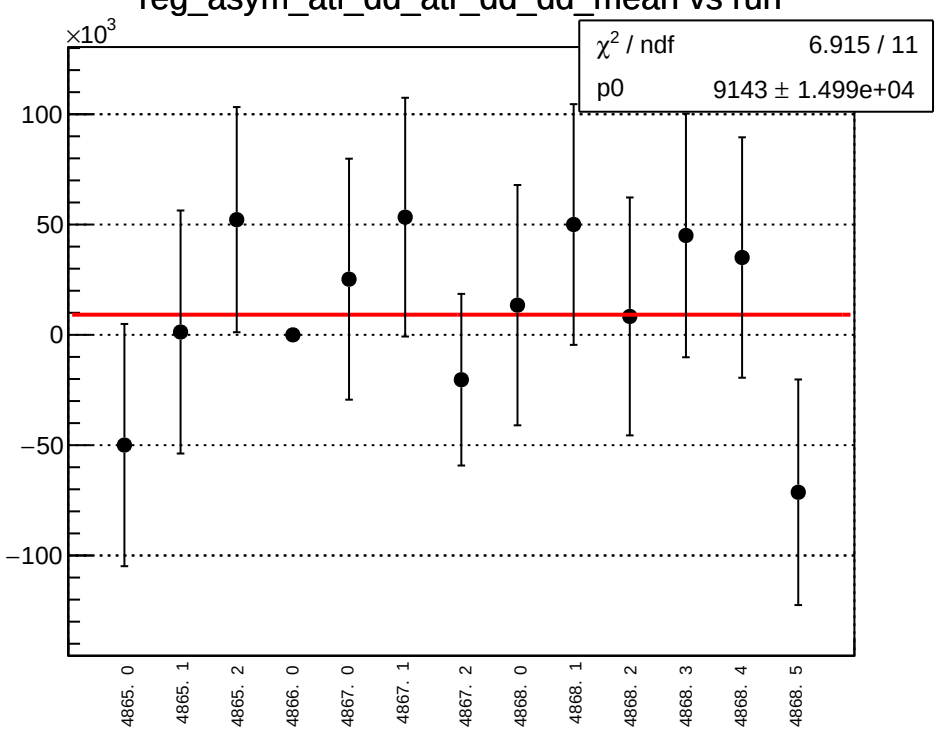

pull1D
Entries 13
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

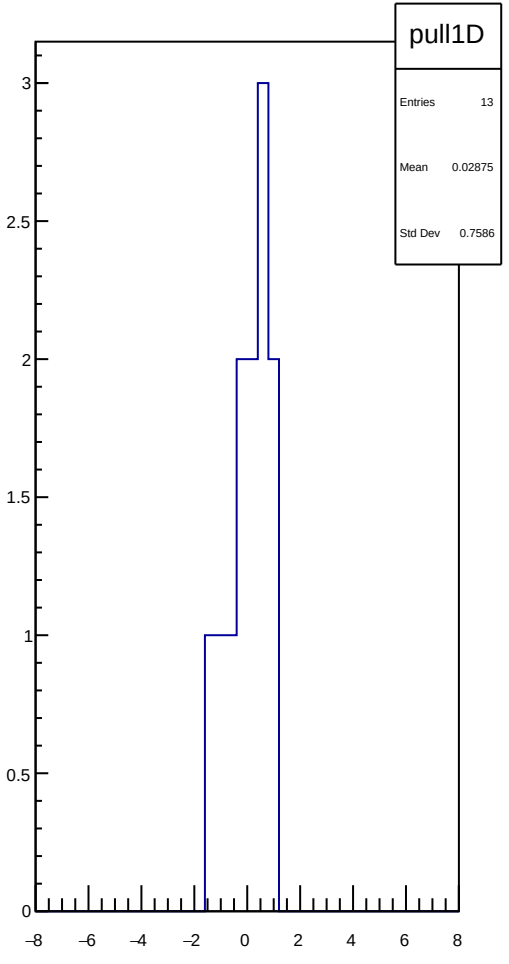

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 12
p0 0 ± 0.2774
1
0.8
0.6
0.4
0.2
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 6.273 / 11
p0 4196 ± 1.498e+04
100
50
0
−50
−100
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.02742
Std Dev 0.7225
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 29.96 / 11
p0 5187 ± 10.59
5000
4000
3000
2000
1000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


reg_asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 6.915 / 11
p0 9143 ± 1.499e+04
100
50
0
−50
−100
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.02875
Std Dev 0.7586
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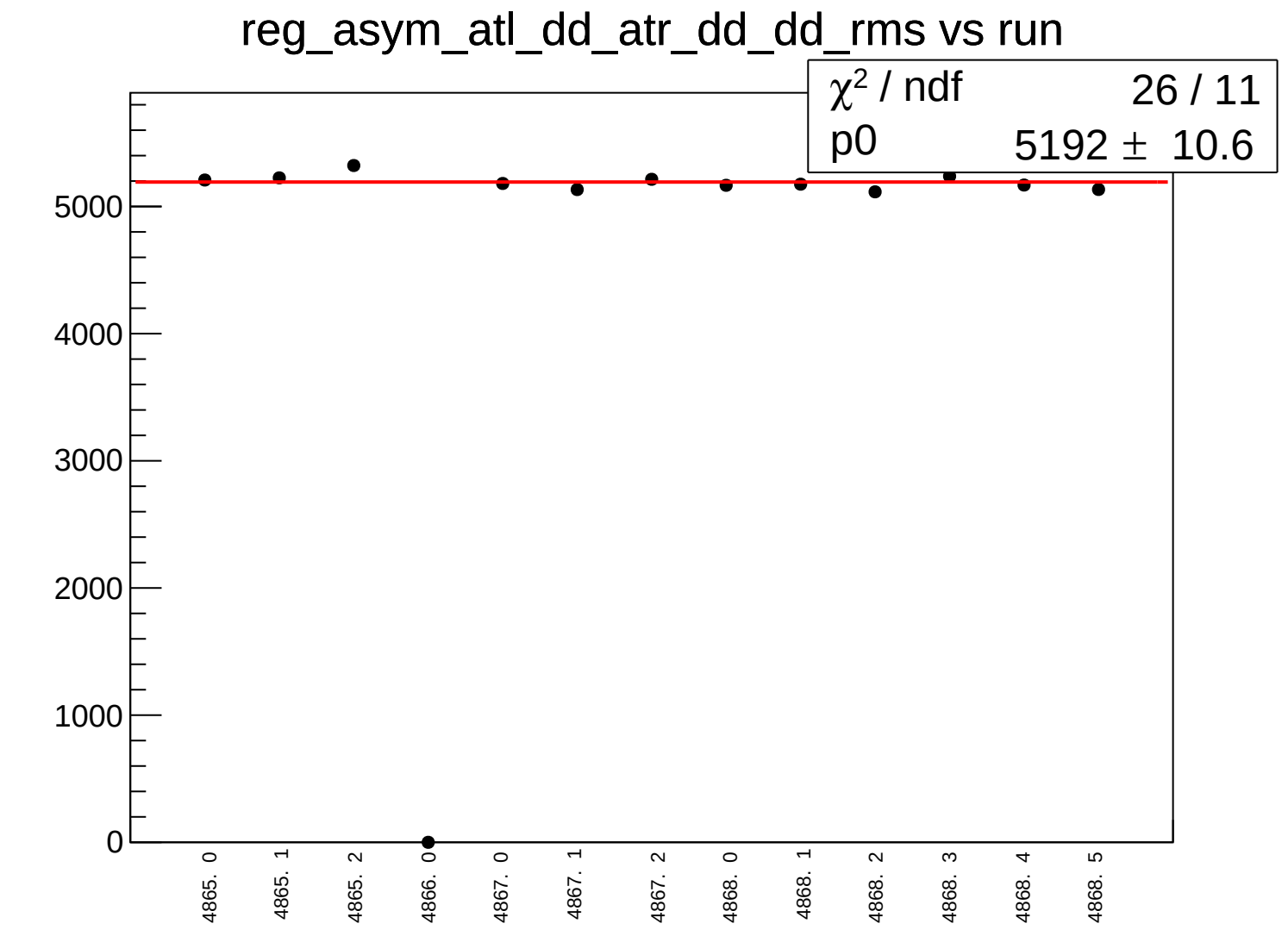
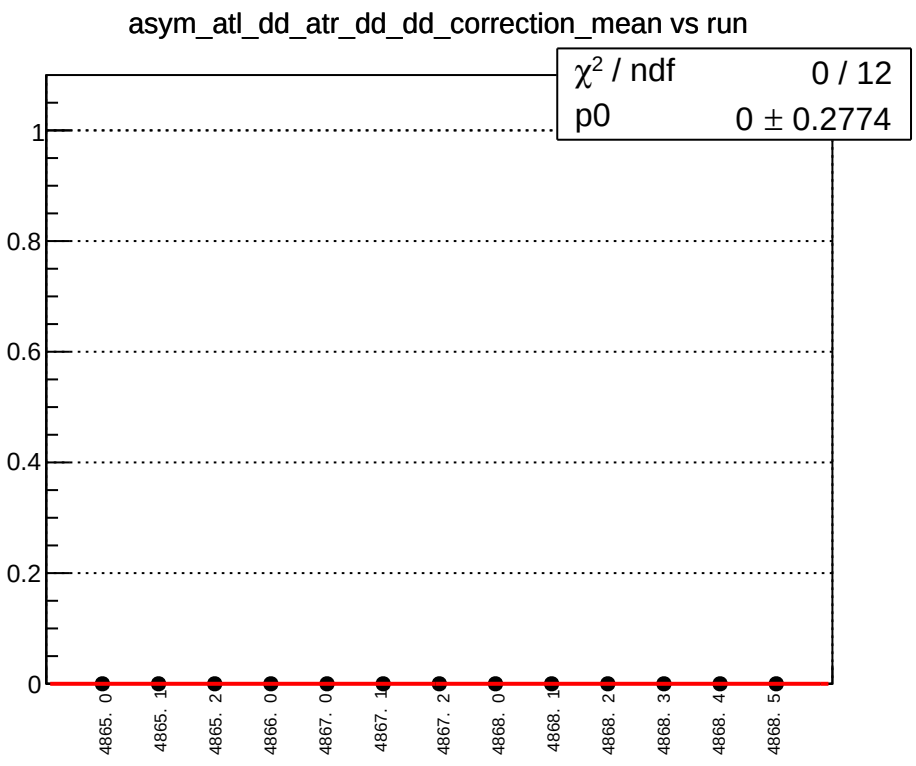
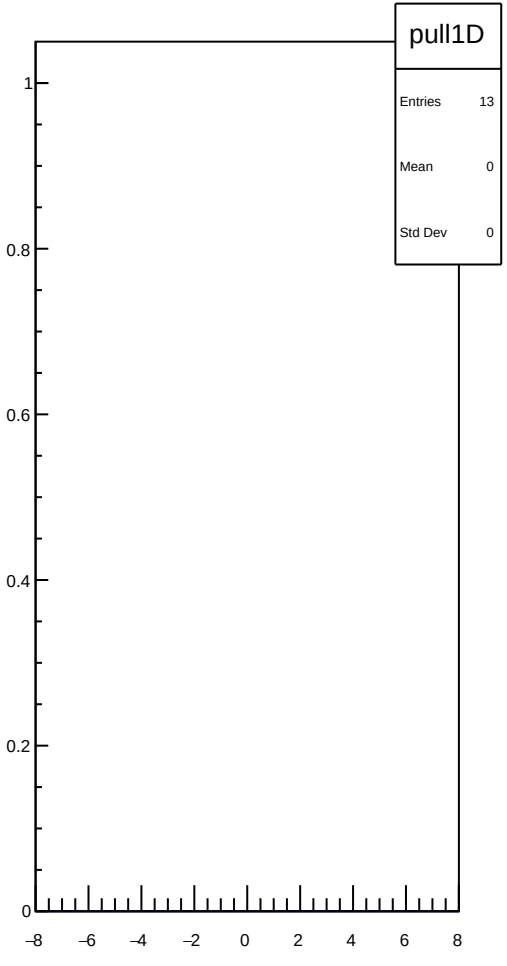
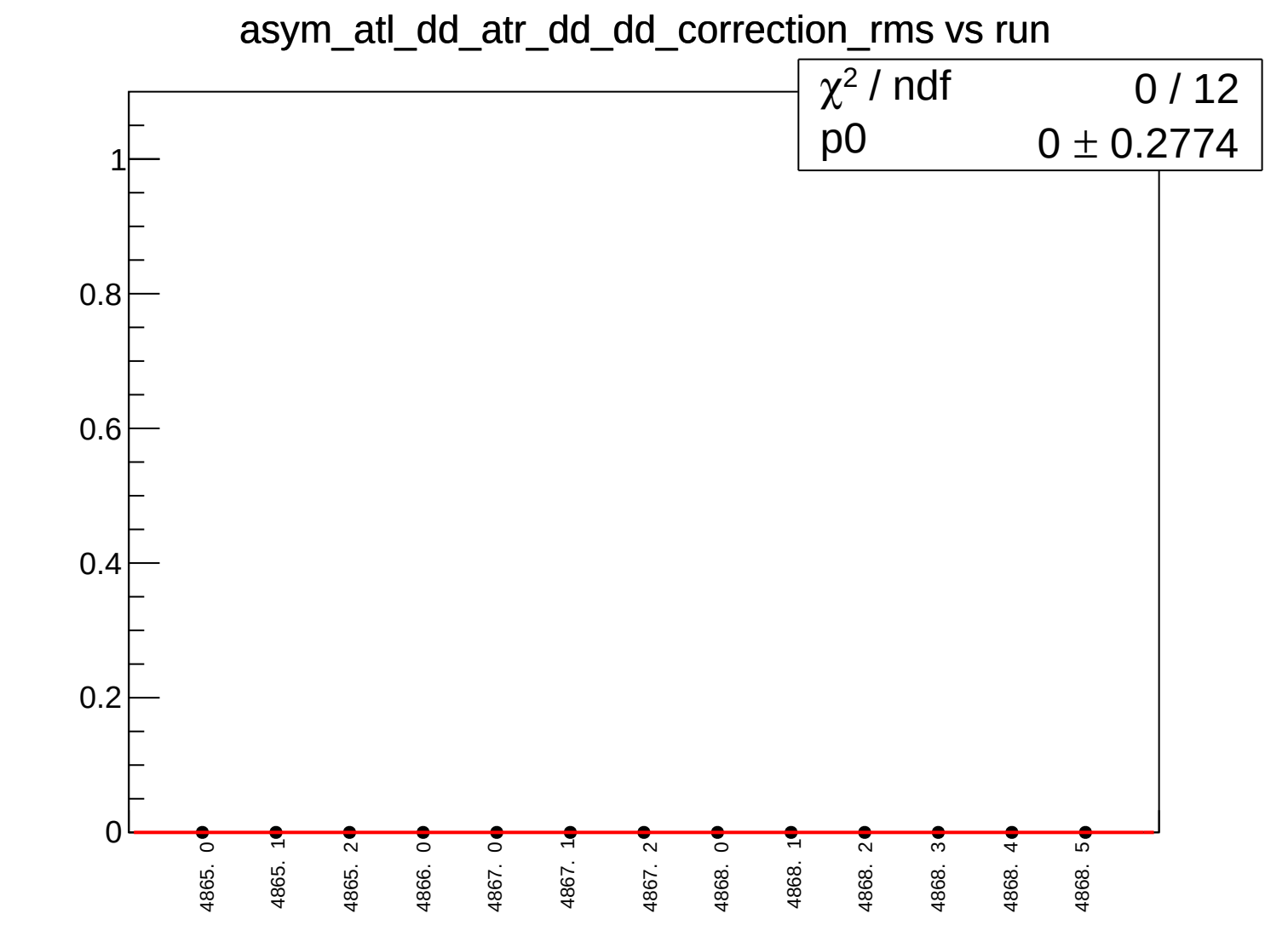
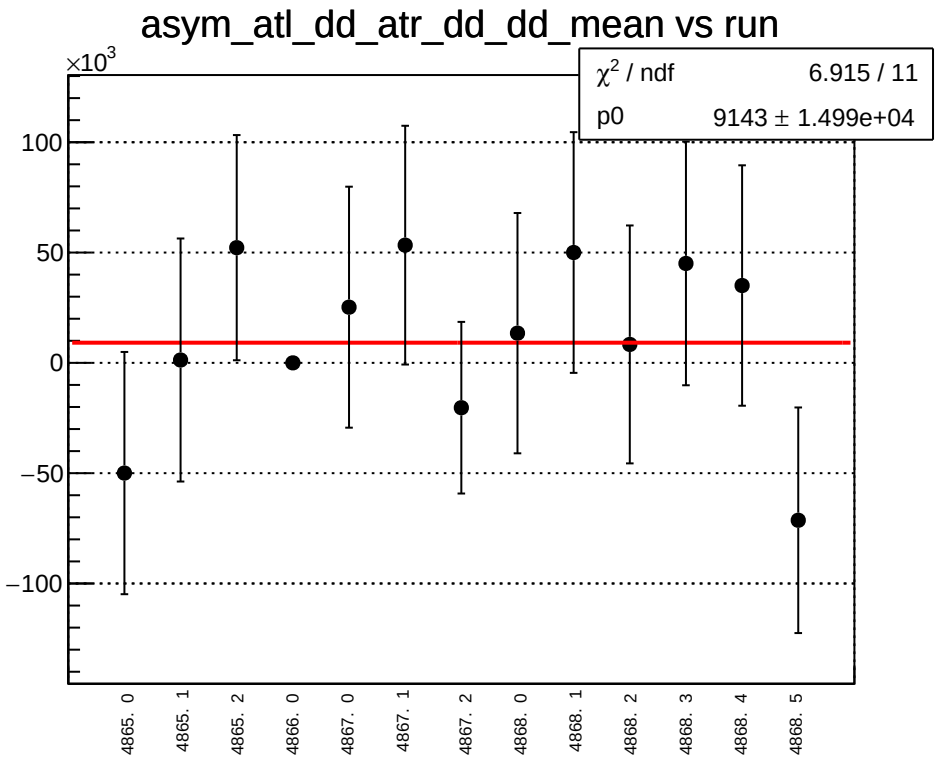
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

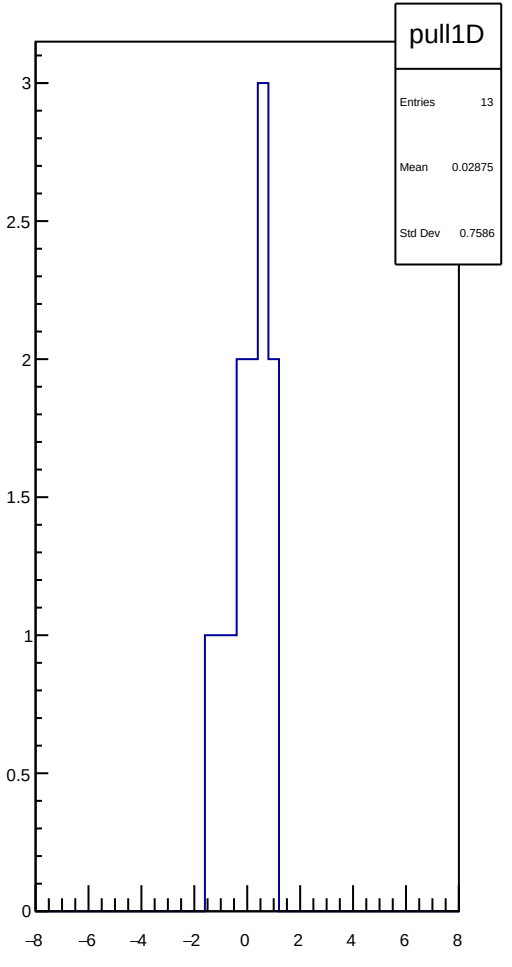

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 26 / 11
p0 5192 ± 10.6
5000
4000
3000
2000
1000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

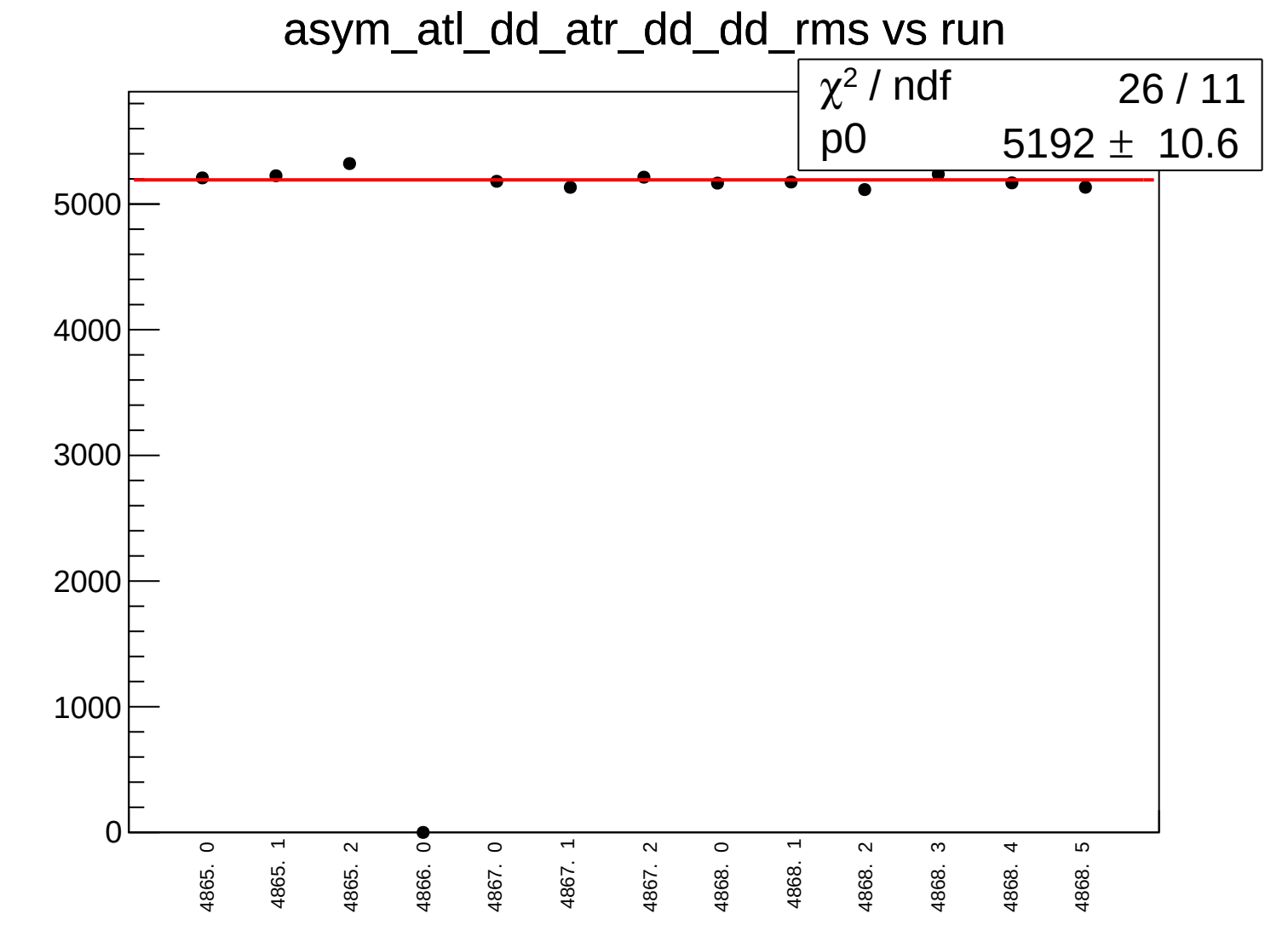

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 12
p0 0 ± 0.2774
1
0.8
0.6
0.4
0.2
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

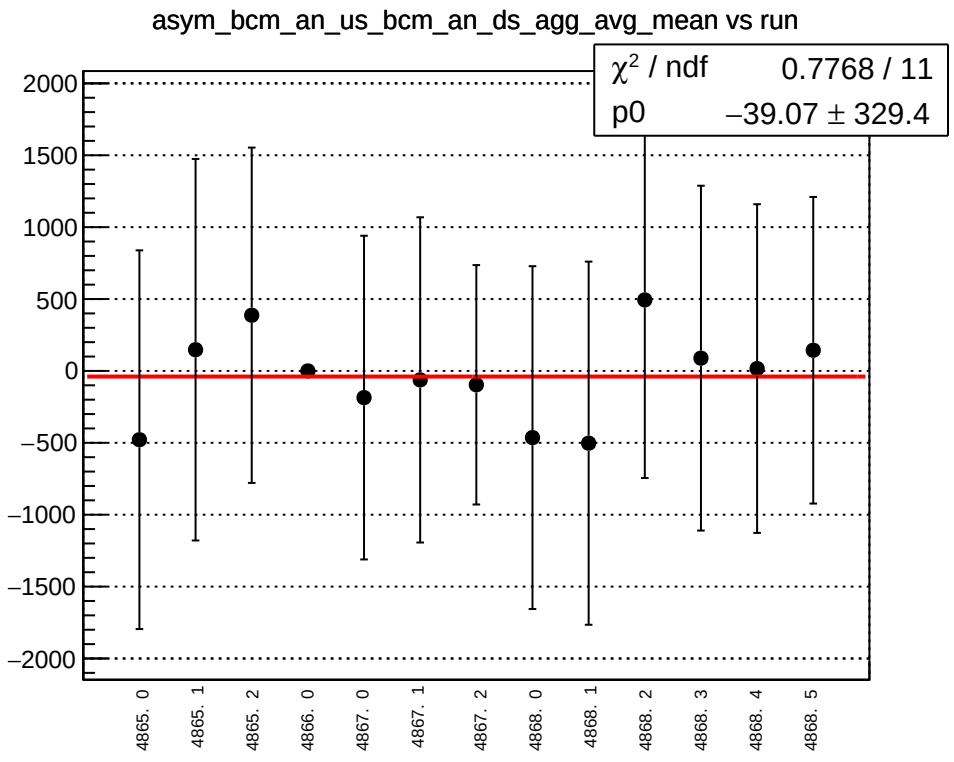

pull1D
Entries 13
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

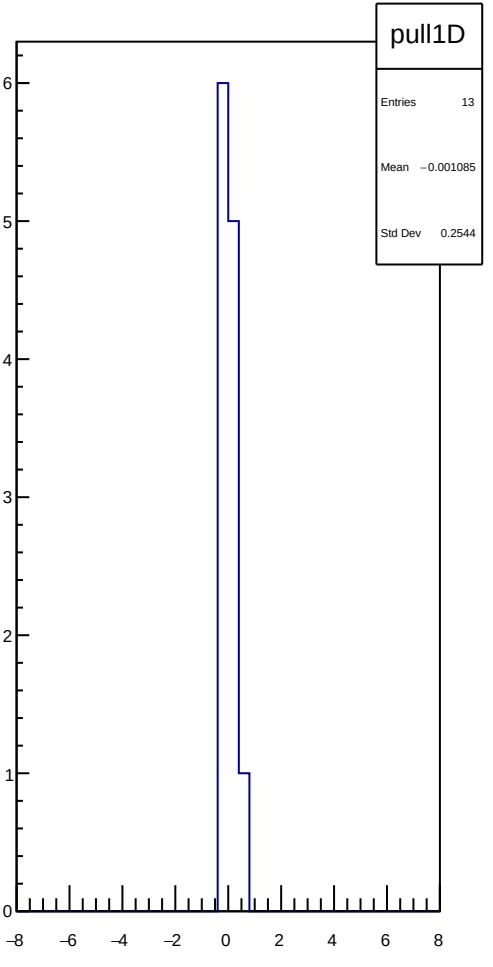

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 0 / 12
p0 0 ± 0.2774
1
0.8
0.6
0.4
0.2
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

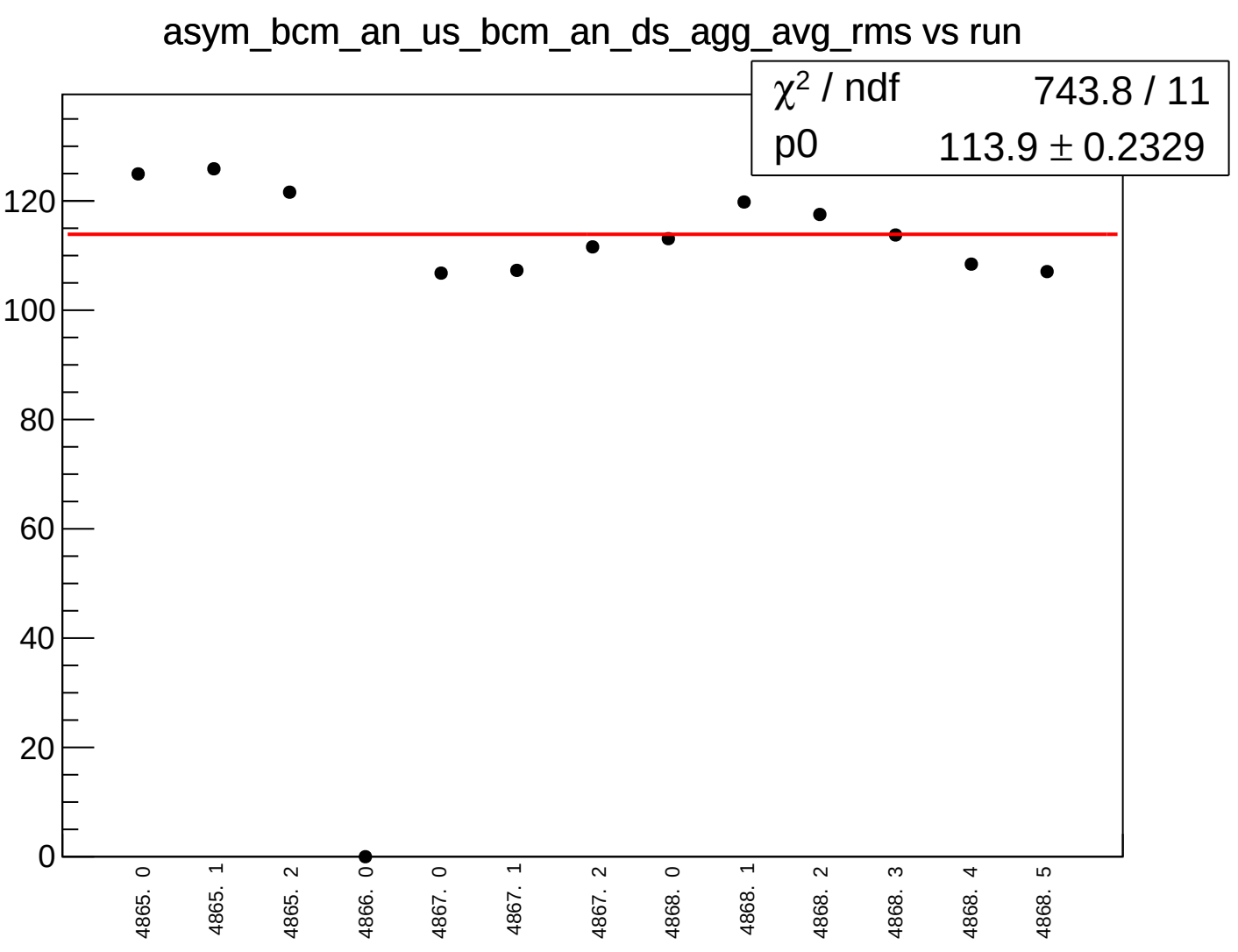

asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 6.915 / 11
p0 9143 ± 1.499e+04
100
50
0
−50
−100
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

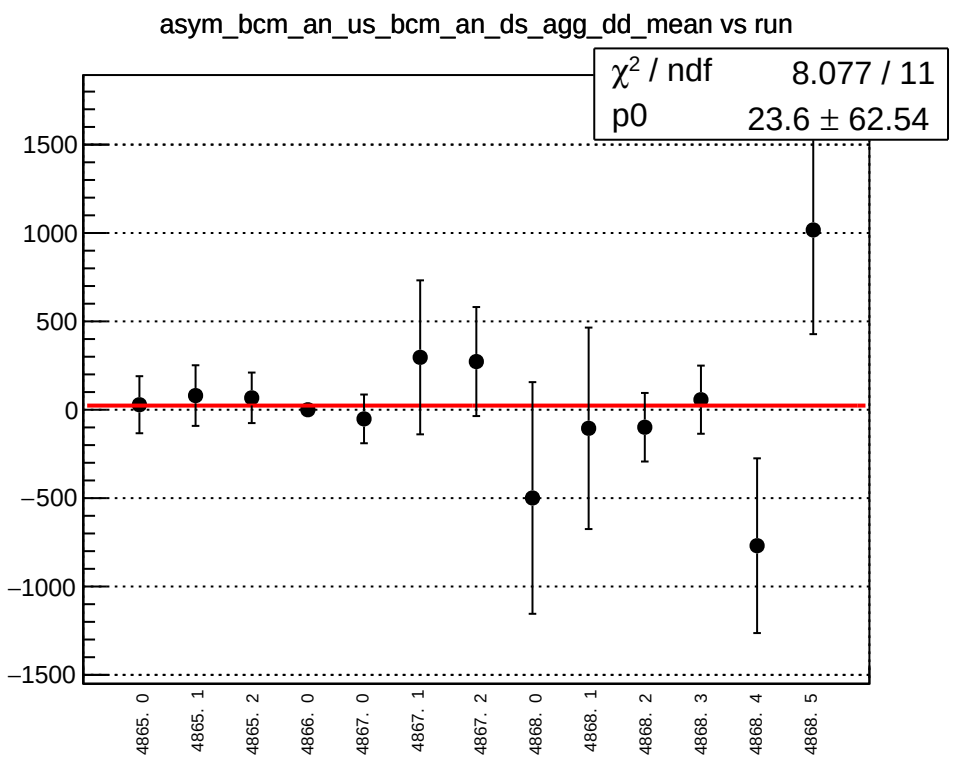

pull1D
Entries 13
Mean 0.02875
Std Dev 0.7586
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

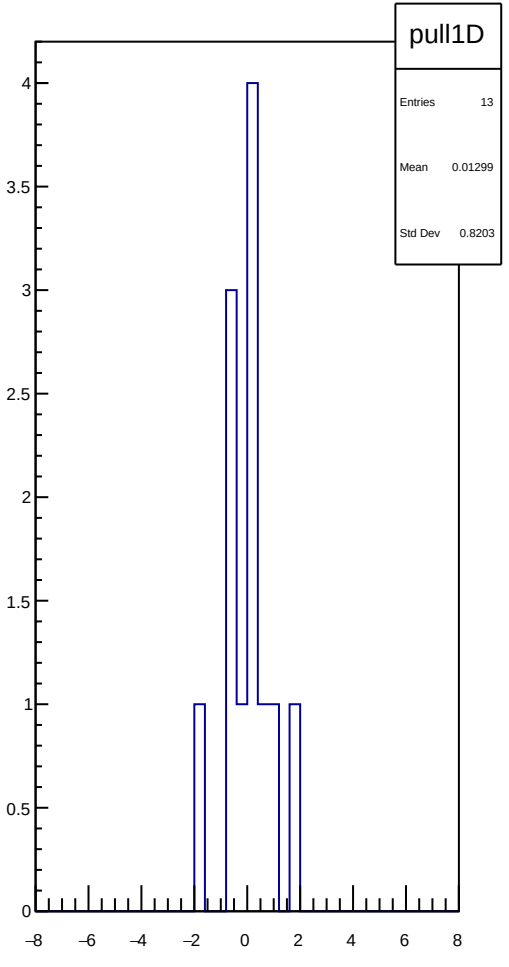

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 26 / 11
p0 5192 ± 10.6
5000
4000
3000
2000
1000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

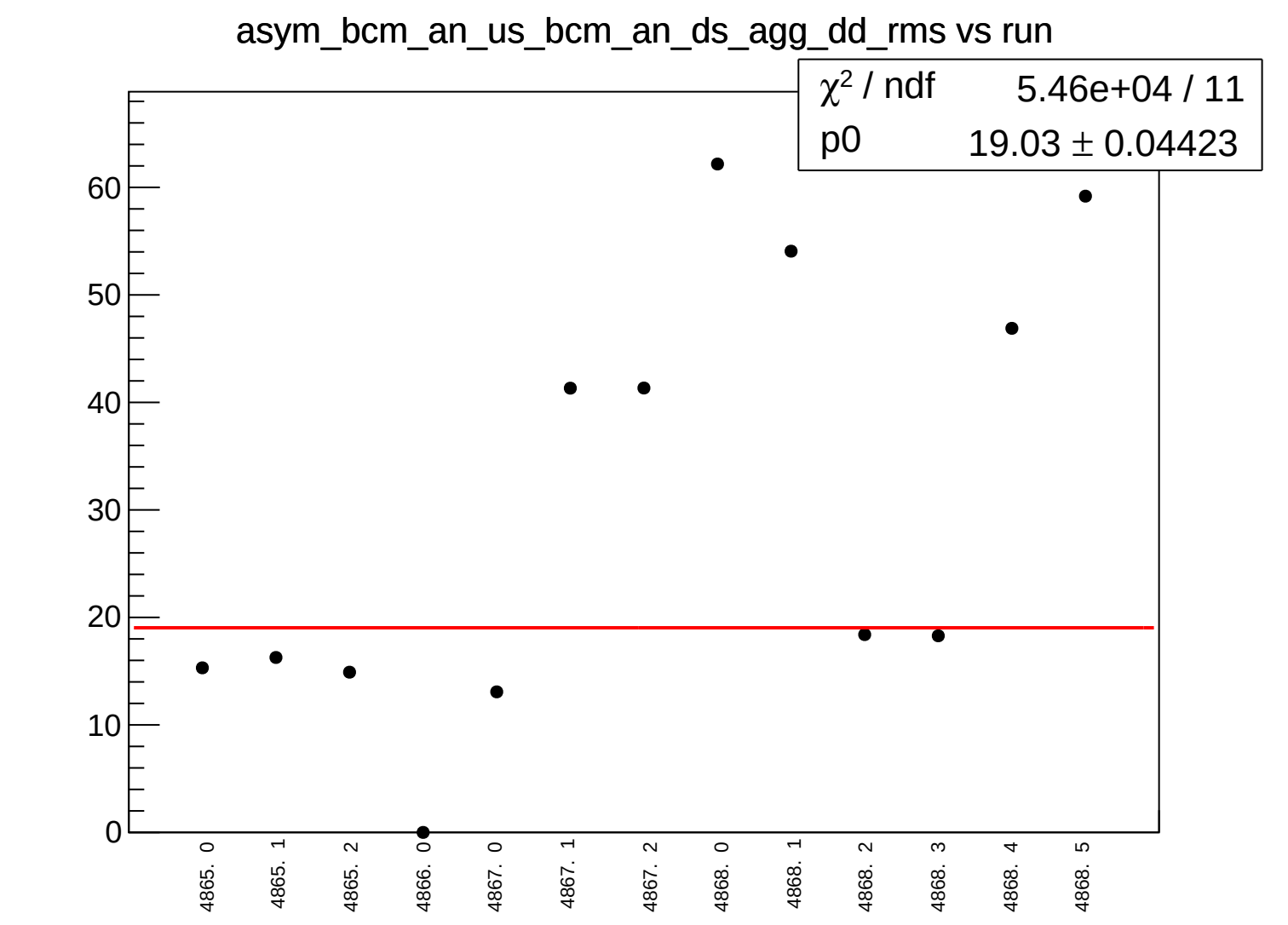

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 0.7768 / 11
p0 −39.07 ± 329.4
2000
1500
1000
500
0
−500
−1000
−1500
−2000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

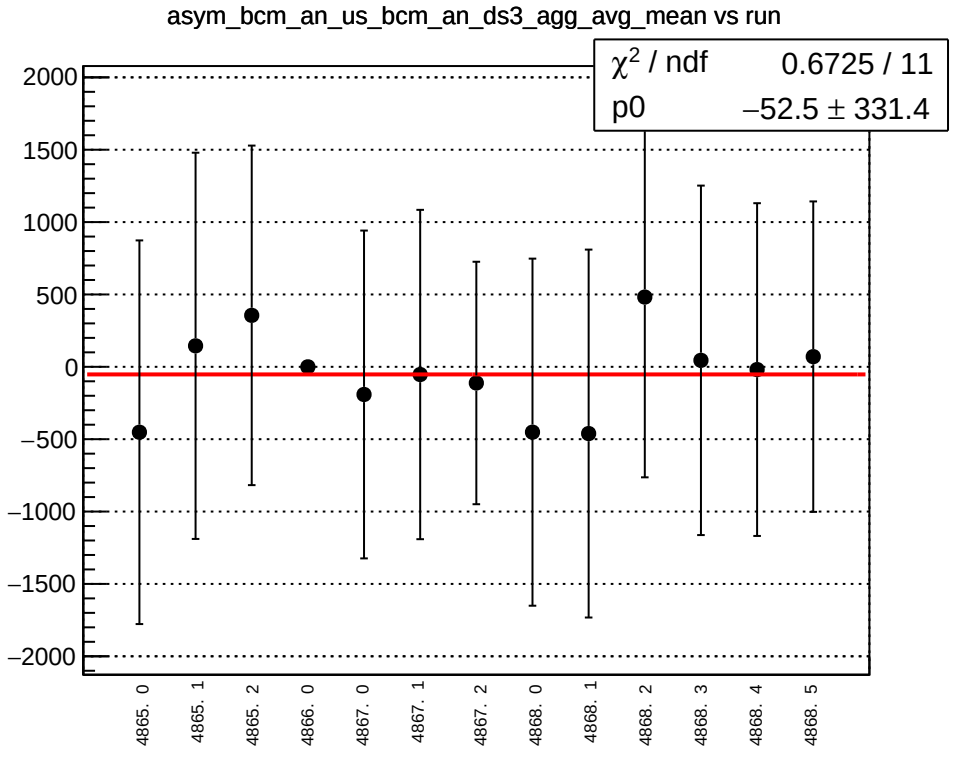

pull1D
Entries 13
Mean −0.001085
Std Dev 0.2544
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 743.8 / 11
p0 113.9 ± 0.2329
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 8.077 / 11
p0 23.6 ± 62.54
1500
1000
500
0
−500
−1000
−1500
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.01299
Std Dev 0.8203
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 5.46e+04 / 11
p0 19.03 ± 0.04423
60
50
40
30
20
10
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 0.6725 / 11
p0 −52.5 ± 331.4
2000
1500
1000
500
0
−500
−1000
−1500
−2000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
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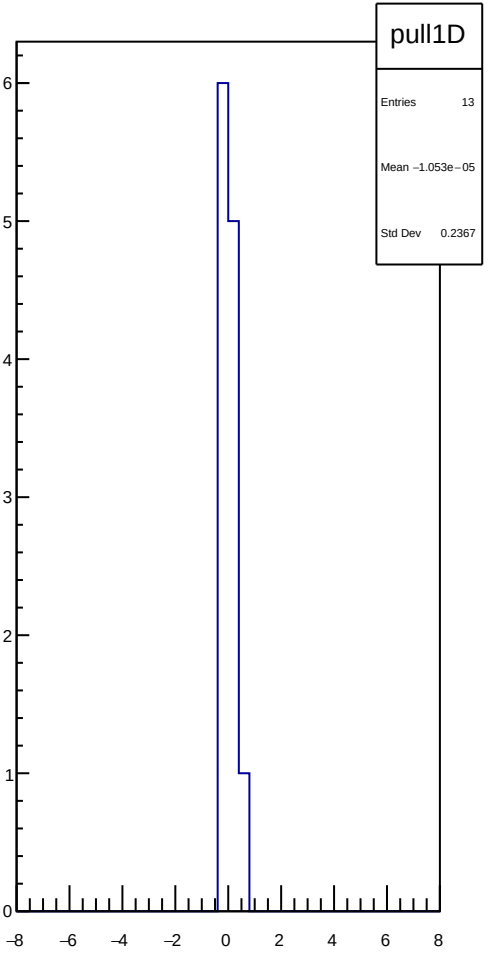
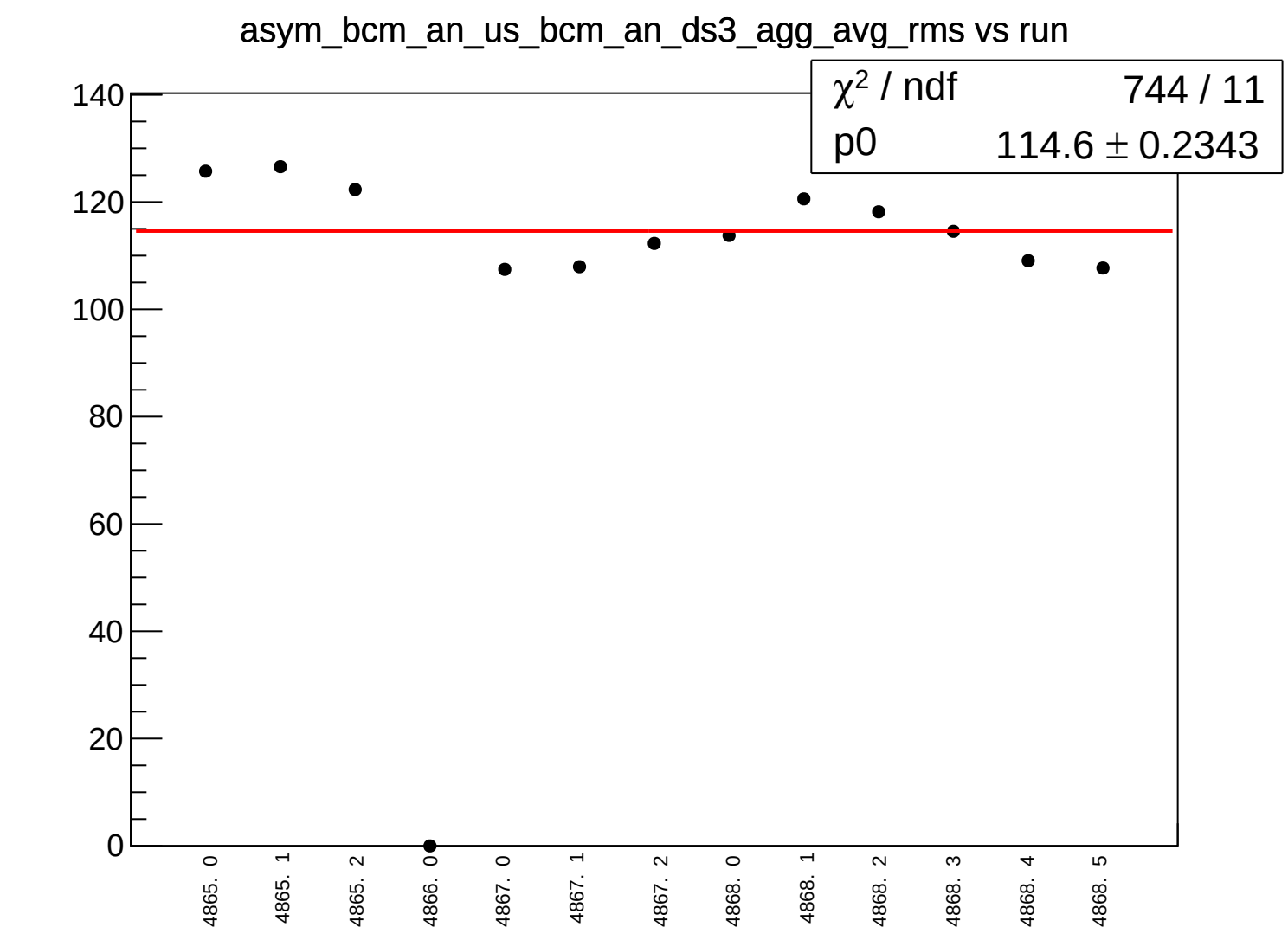
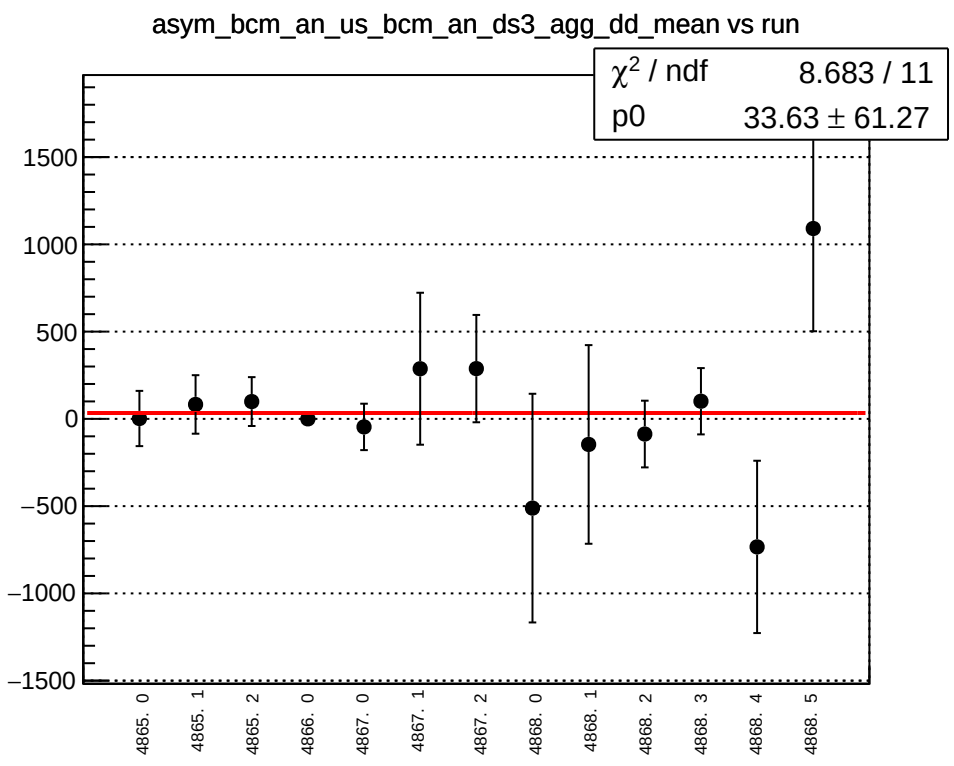
4868. 4
4868. 5


pull1D
Entries 13
Mean −1.053e−05
Std Dev 0.2367
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 744 / 11
p0 114.6 ± 0.2343
140
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 8.683 / 11
p0 33.63 ± 61.27
1500
1000
500
0
−500
−1000
−1500
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
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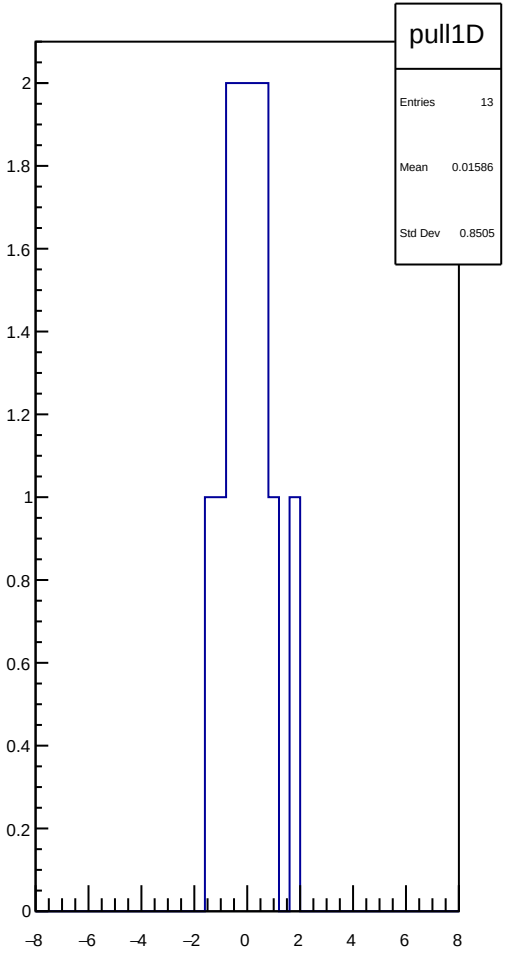
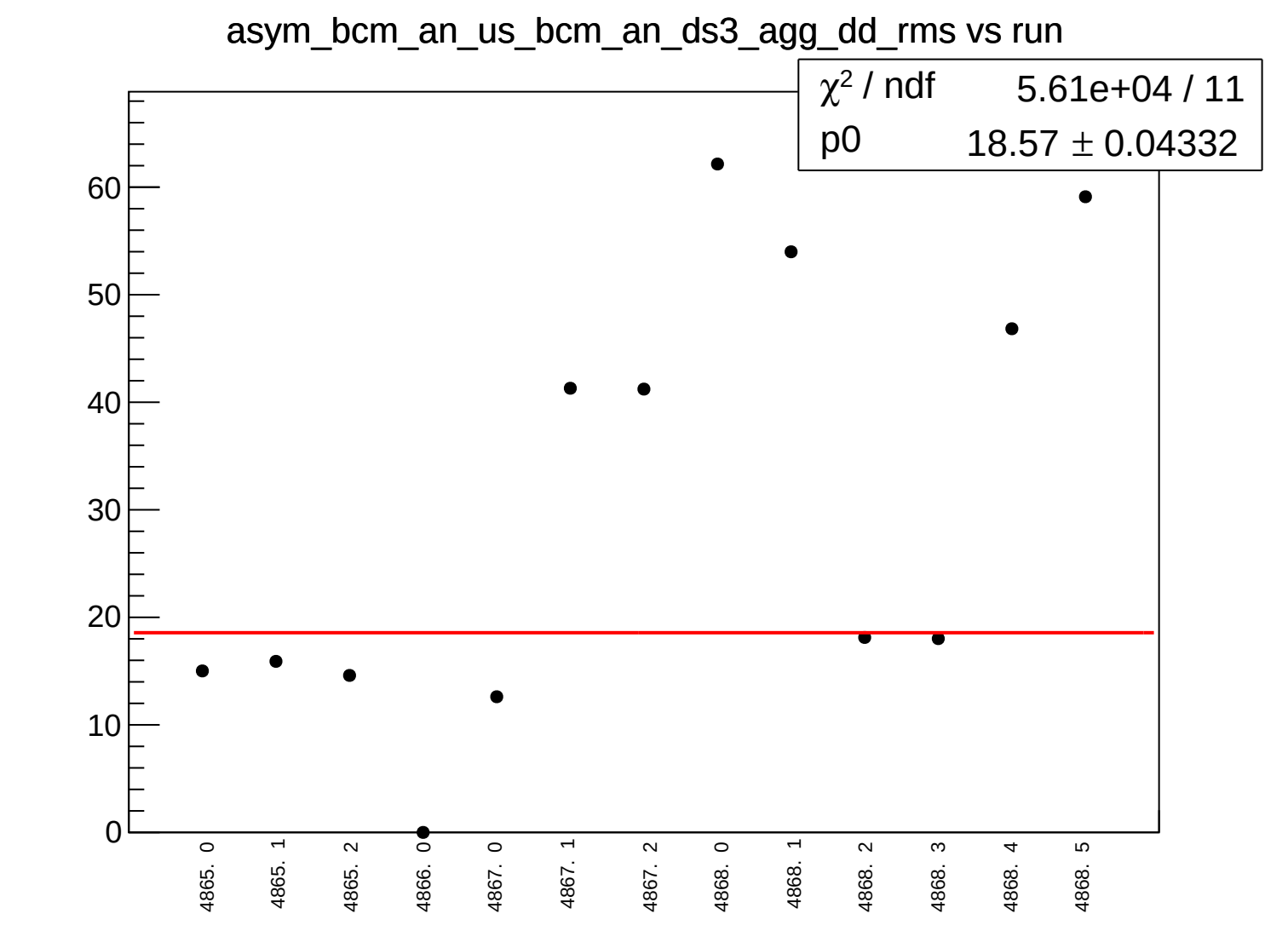
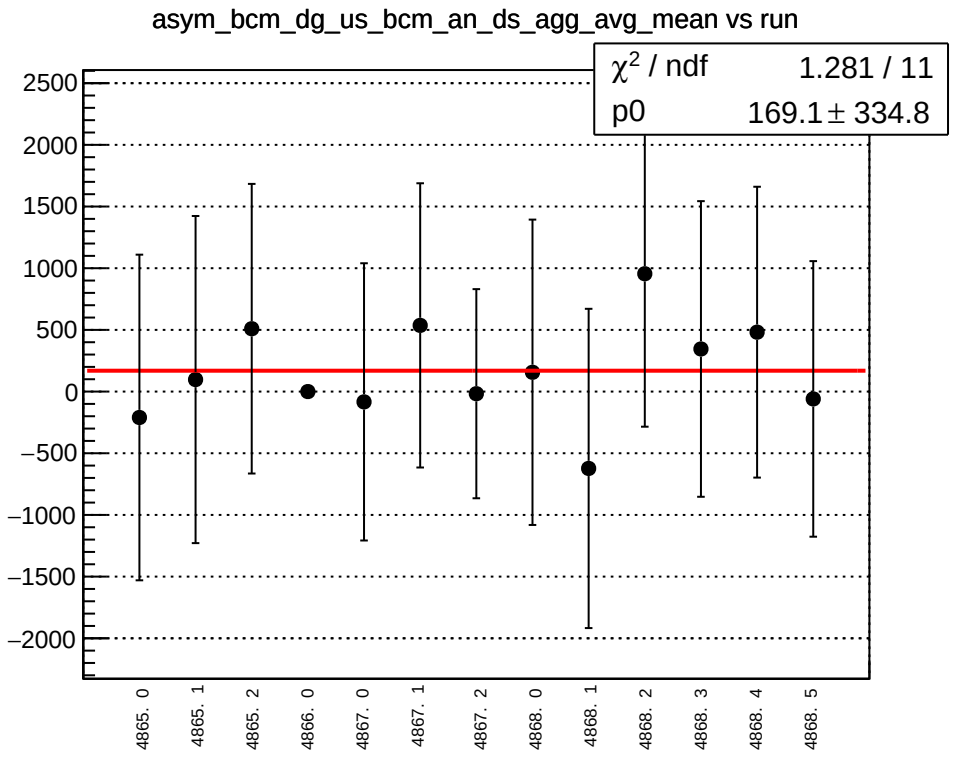
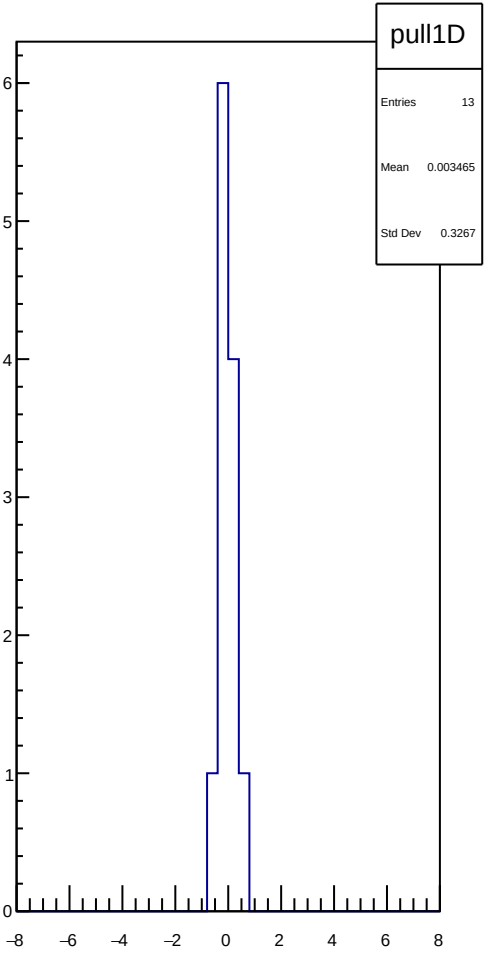
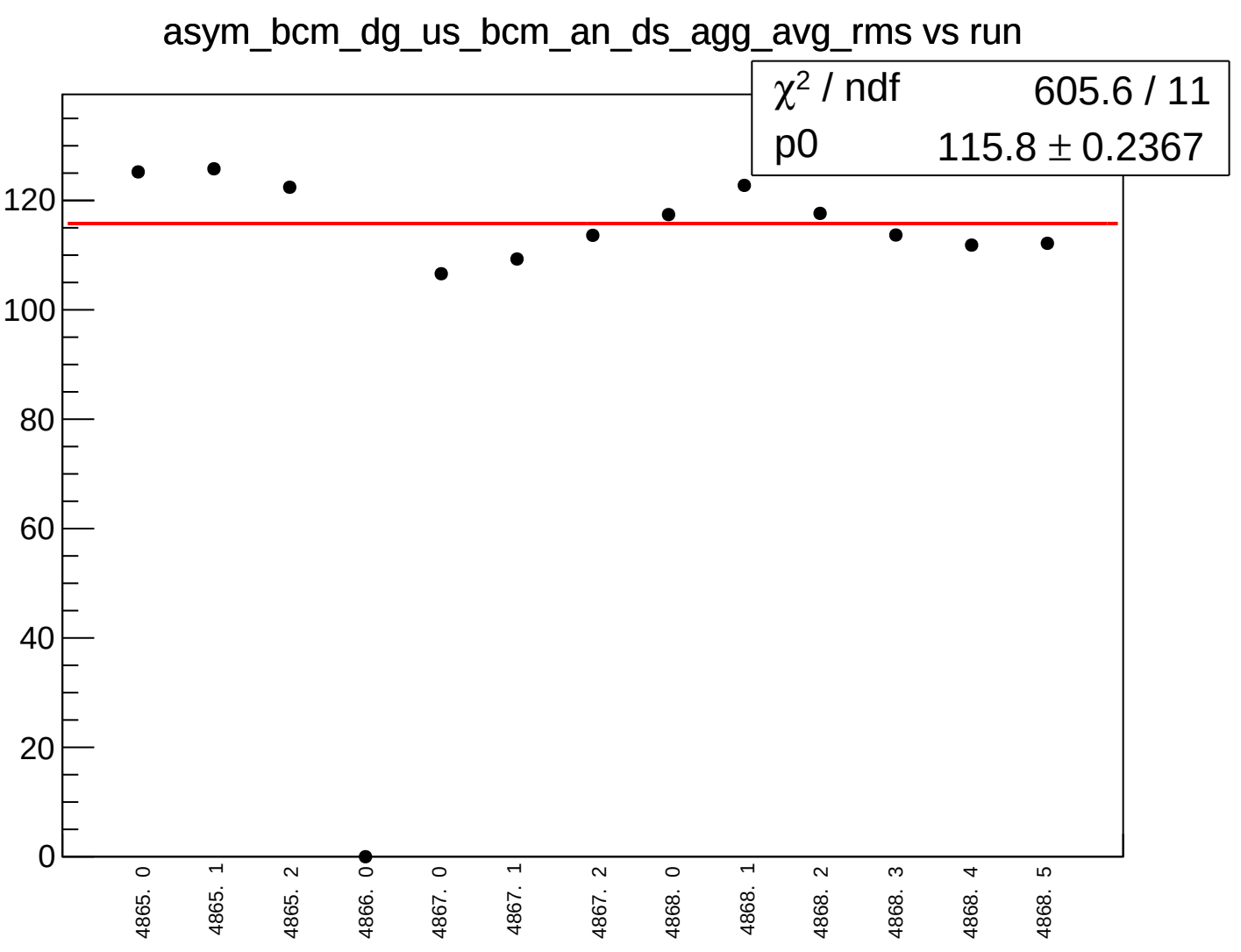
4868. 4
4868. 5

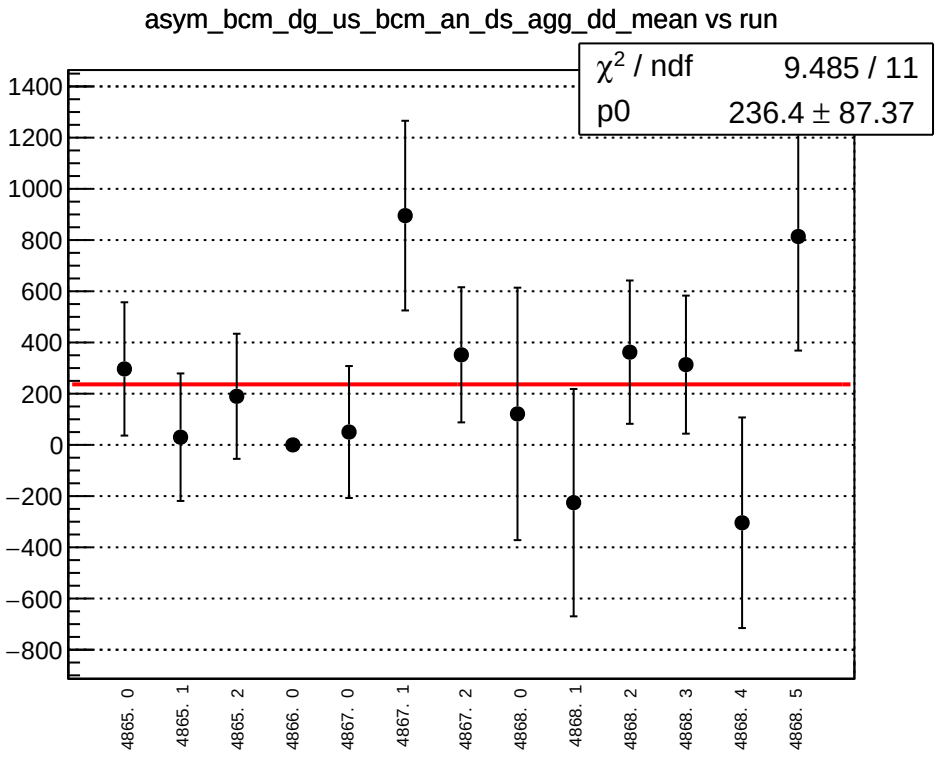

pull1D
Entries 13
Mean 0.01586
Std Dev 0.8505
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

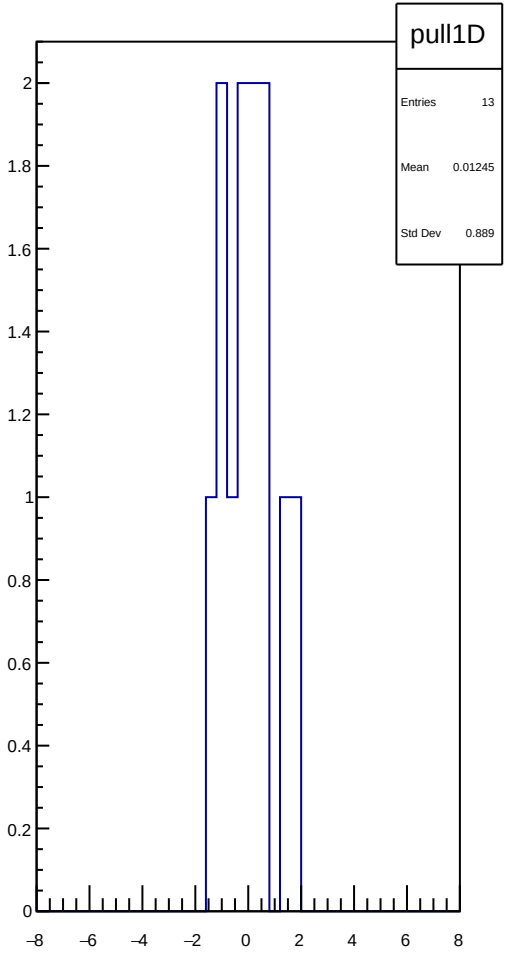

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 5.61e+04 / 11
p0 18.57 ± 0.04332
60
50
40
30
20
10
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

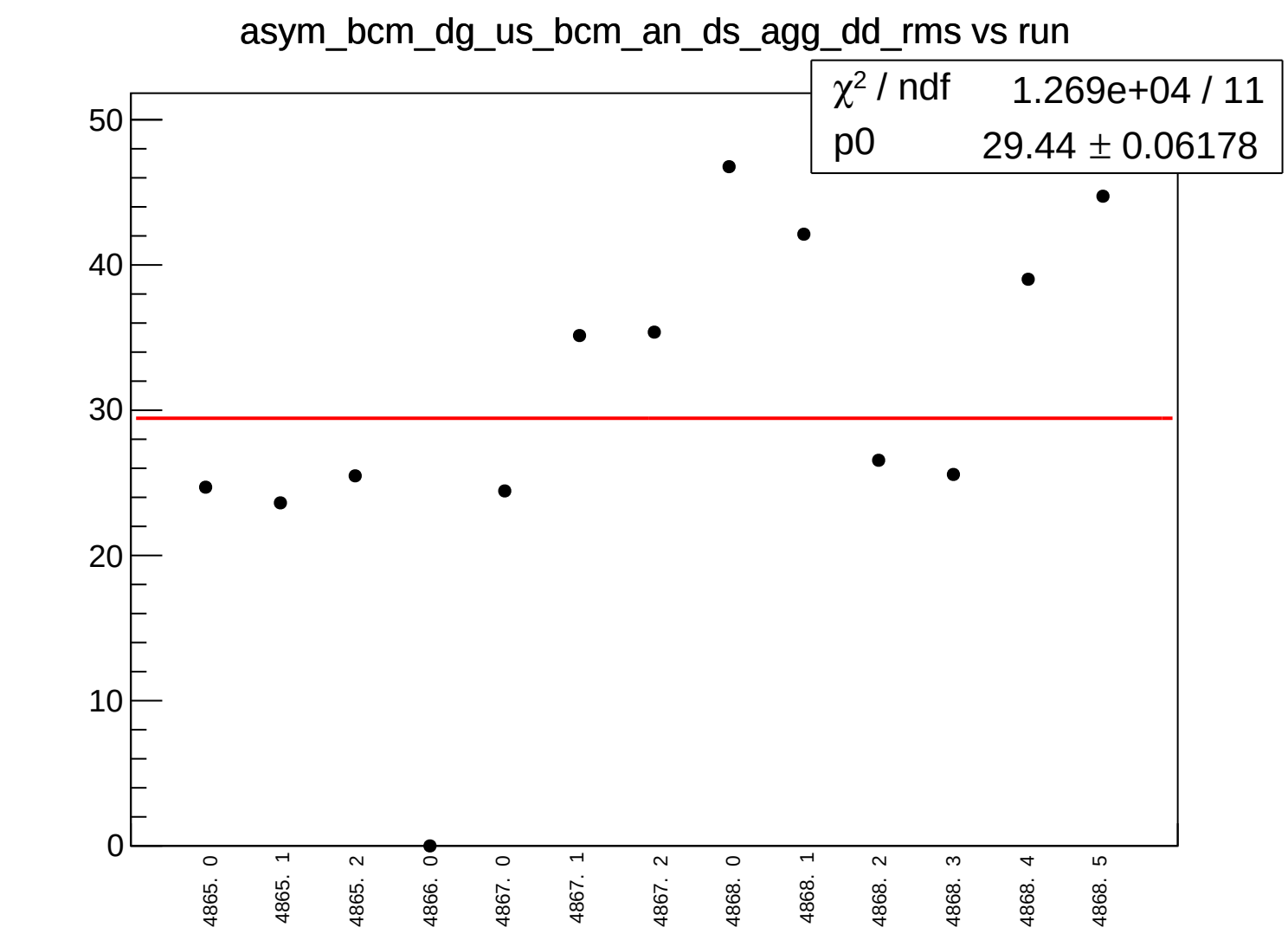

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 1.281 / 11
p0 169.1 ± 334.8
2500
2000
1500
1000
500
0
−500
−1000
−1500
−2000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

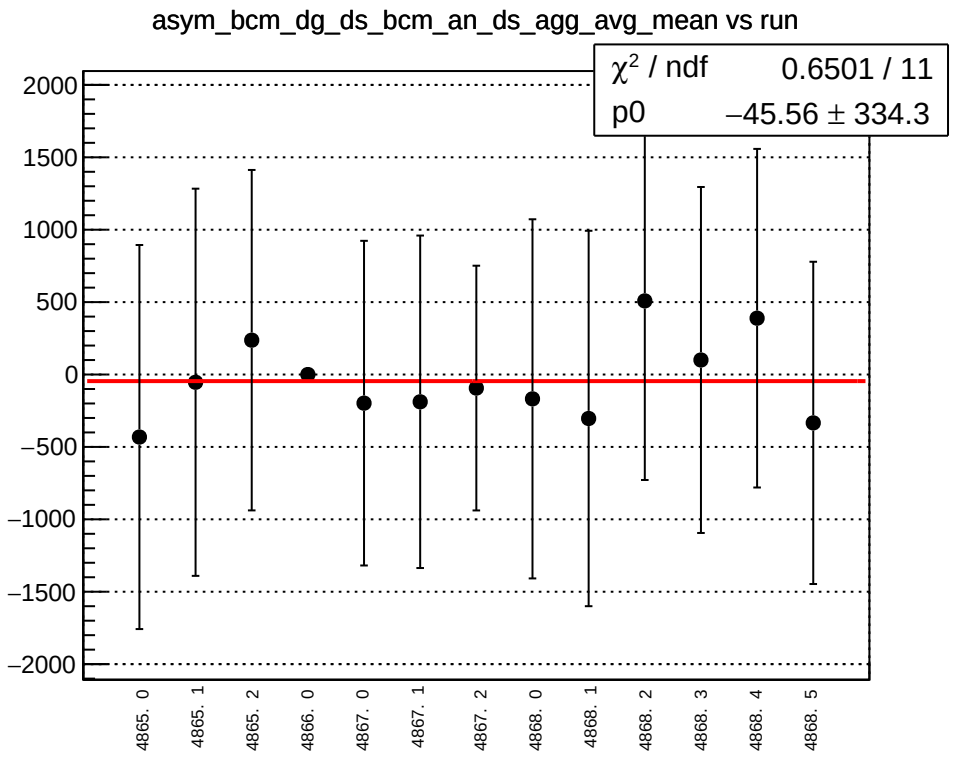

pull1D
Entries 13
Mean 0.003465
Std Dev 0.3267
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

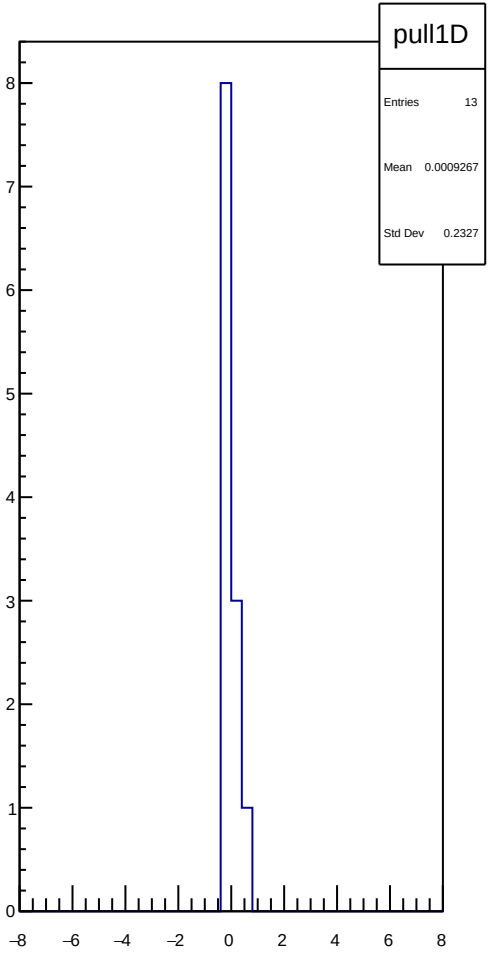

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 605.6 / 11
p0 115.8 ± 0.2367
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

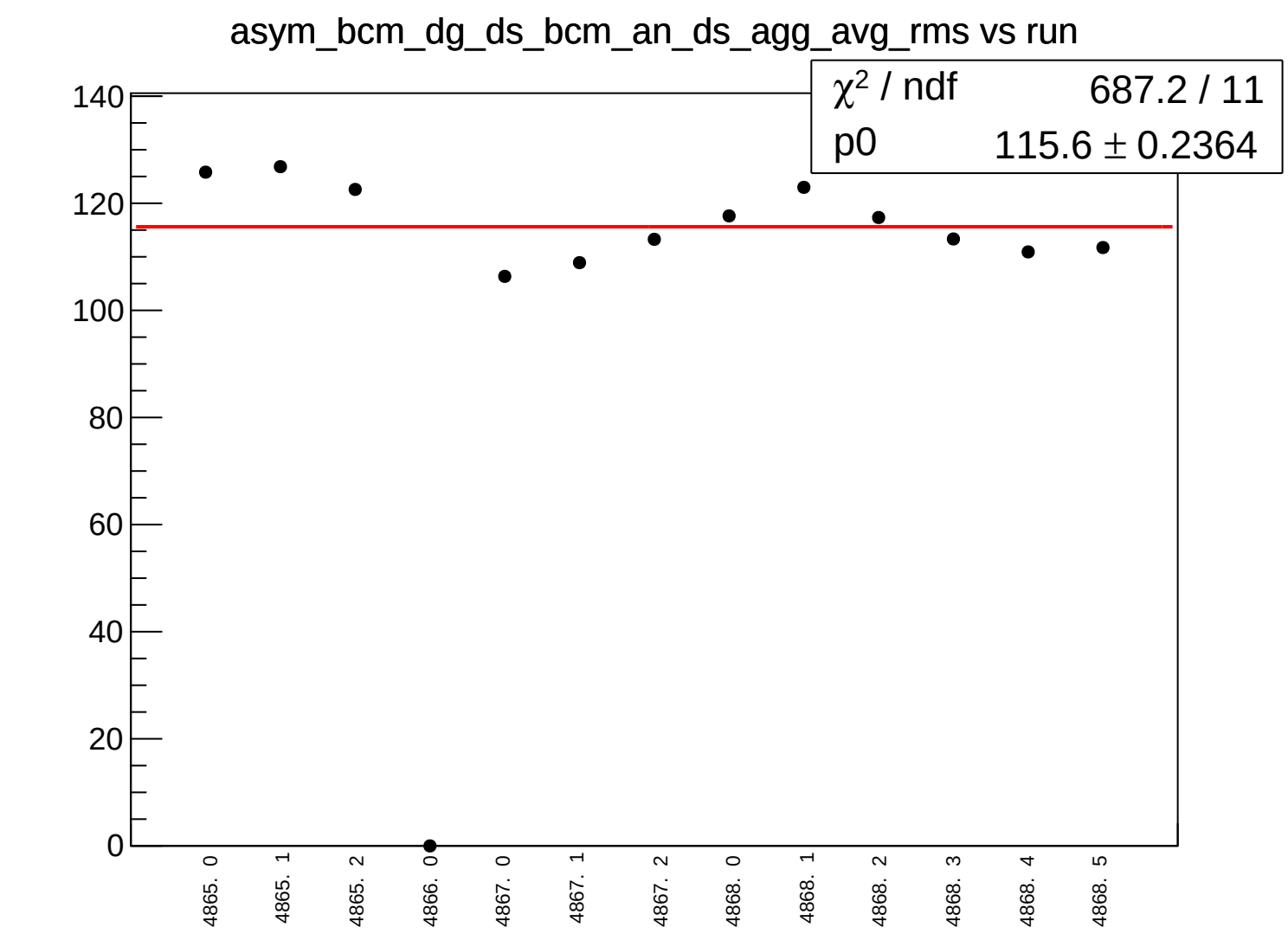

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 9.485 / 11
p0 236.4 ± 87.37
1400
1200
1000
800
600
400
200
0
−200
−400
−600
−800
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

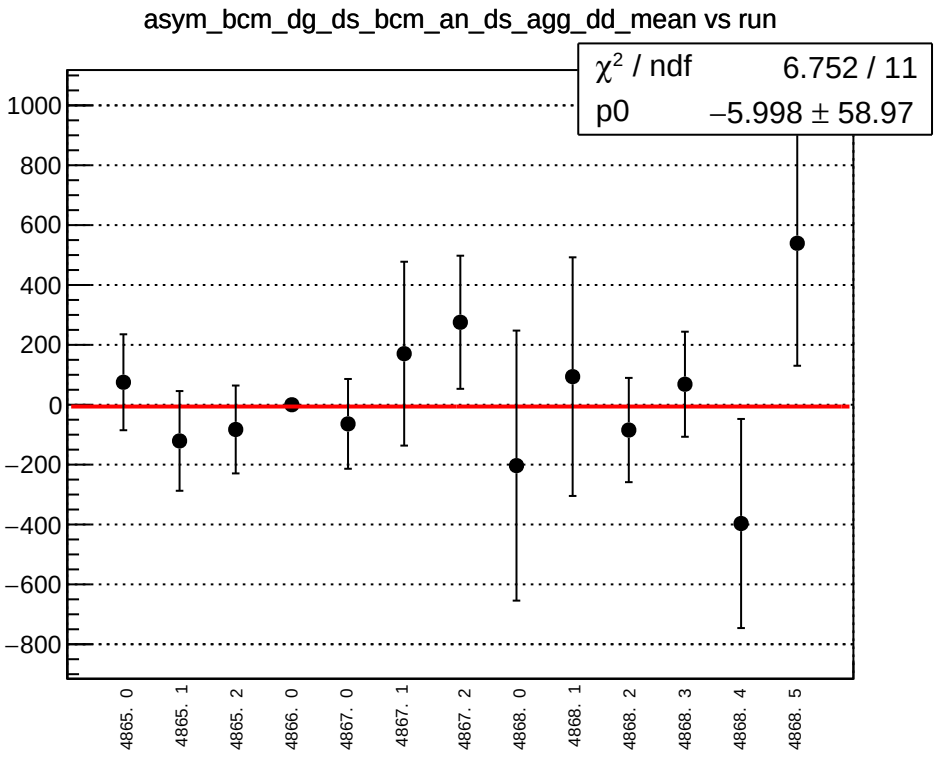

pull1D
Entries 13
Mean 0.01245
Std Dev 0.889
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

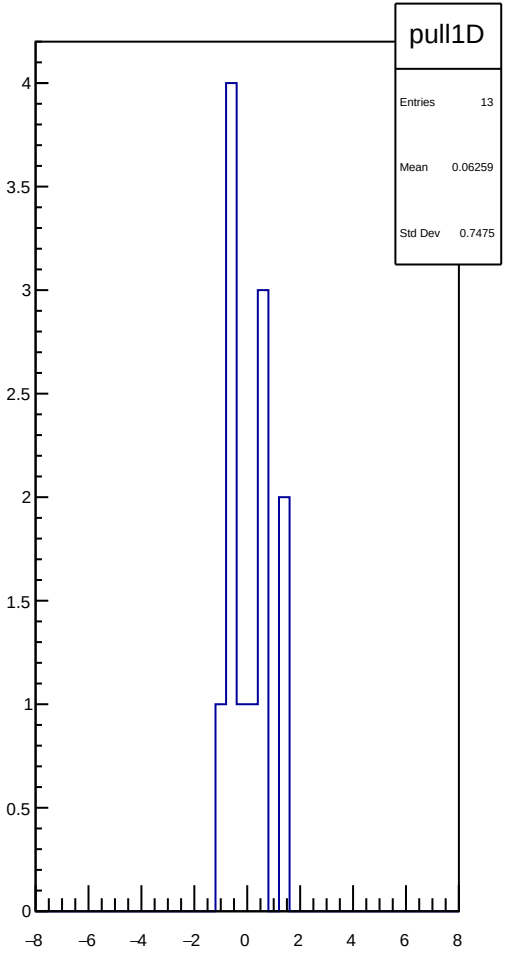

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.269e+04 / 11
p0 29.44 ± 0.06178
50
40
30
20
10
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

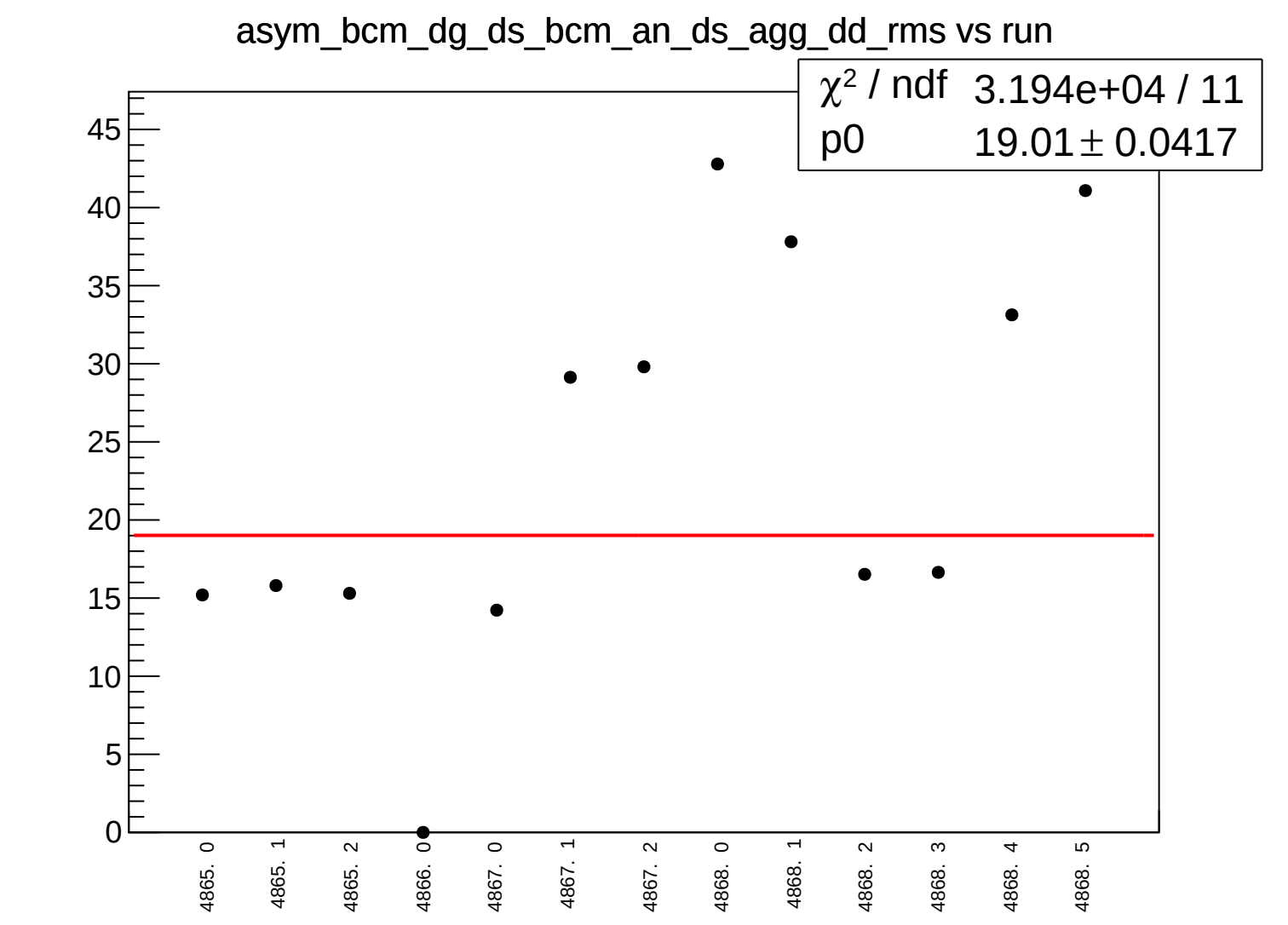

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 0.6501 / 11
p0 −45.56 ± 334.3
2000
1500
1000
500
0
−500
−1000
−1500
−2000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

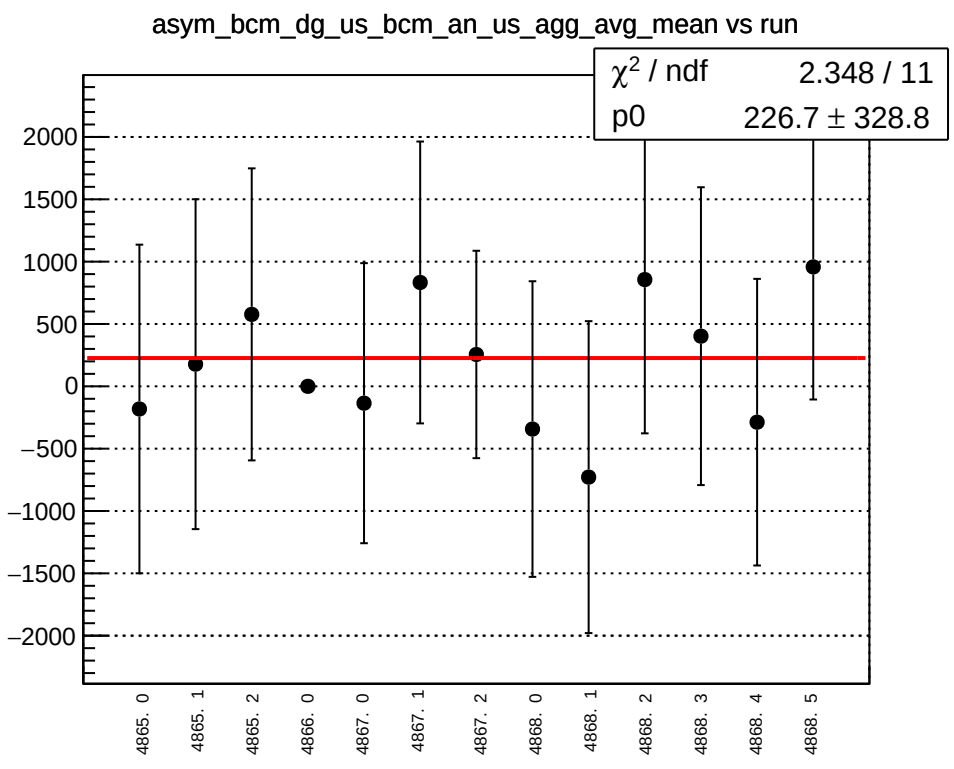

pull1D
Entries 13
Mean 0.0009267
Std Dev 0.2327
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

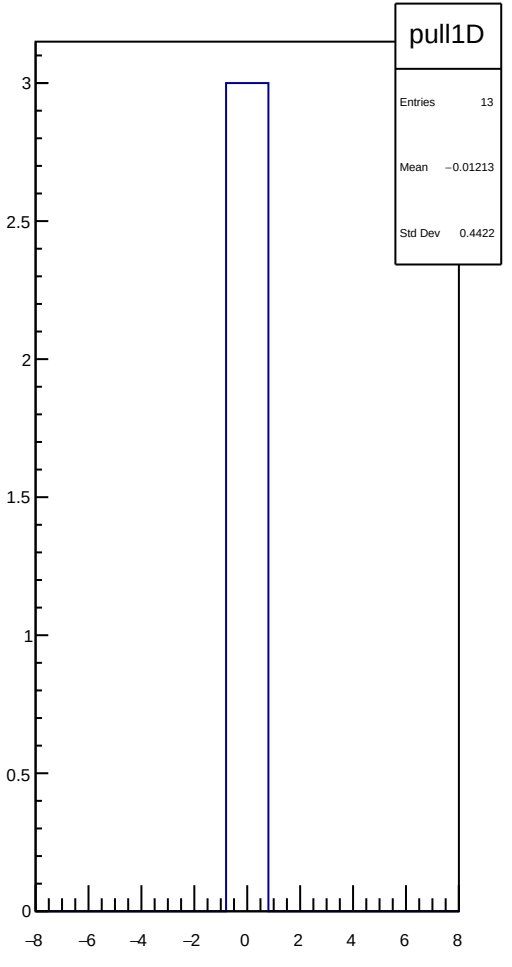

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 687.2 / 11
p0 115.6 ± 0.2364
140
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

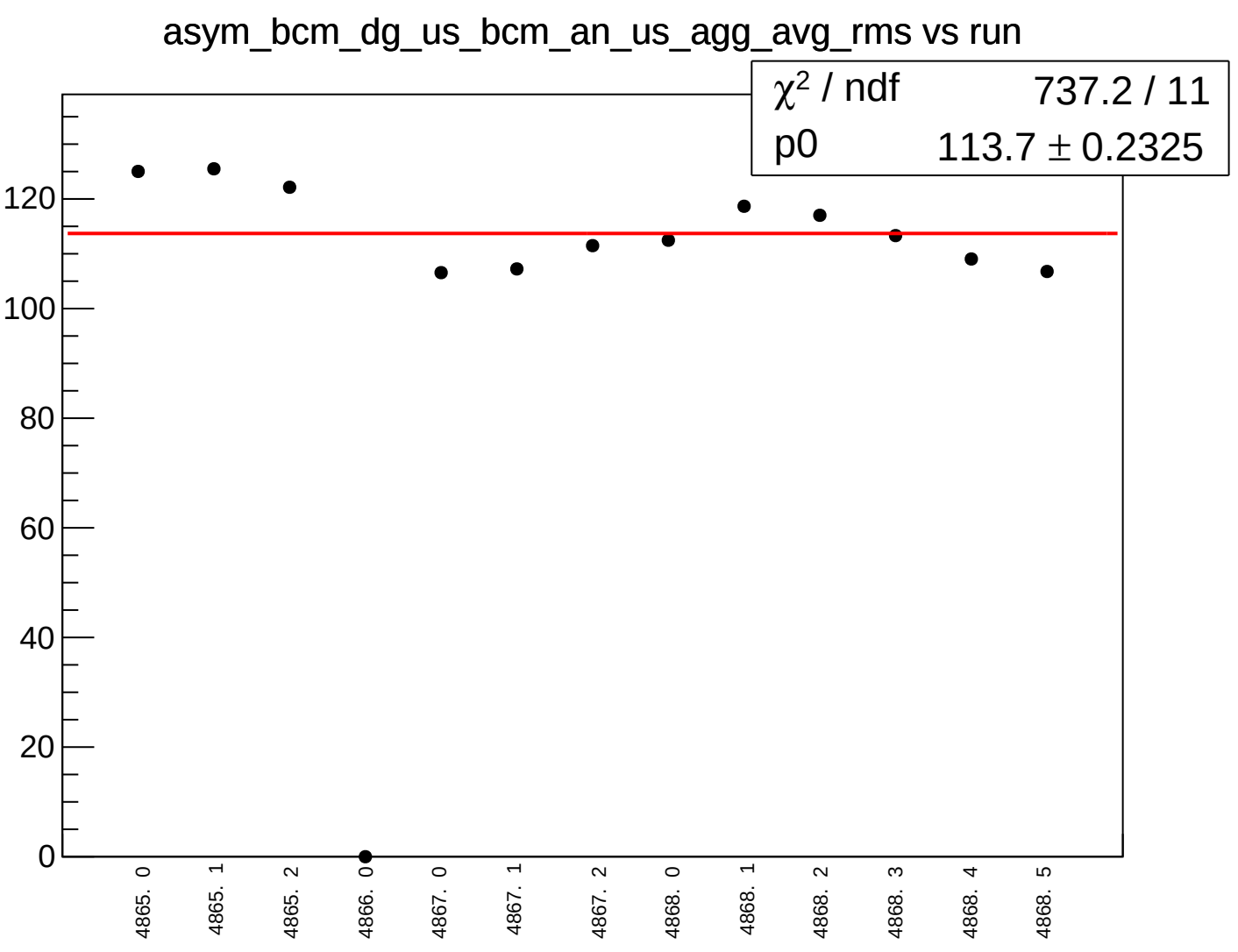

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 6.752 / 11
p0 −5.998 ± 58.97
1000
800
600
400
200
0
−200
−400
−600
−800
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.06259
Std Dev 0.7475
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3.194e+04 / 11
p0 19.01 ± 0.0417
45
40
35
30
25
20
15
10
5
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 2.348 / 11
p0 226.7 ± 328.8
2000
1500
1000
500
0
−500
−1000
−1500
−2000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.01213
Std Dev 0.4422
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 737.2 / 11
p0 113.7 ± 0.2325
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
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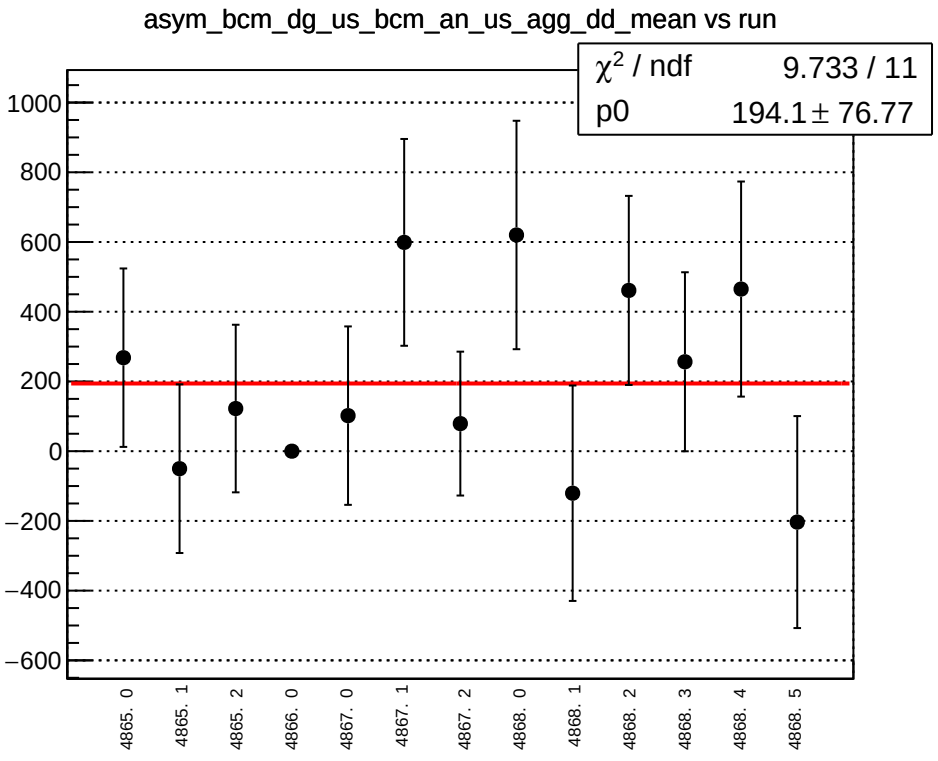
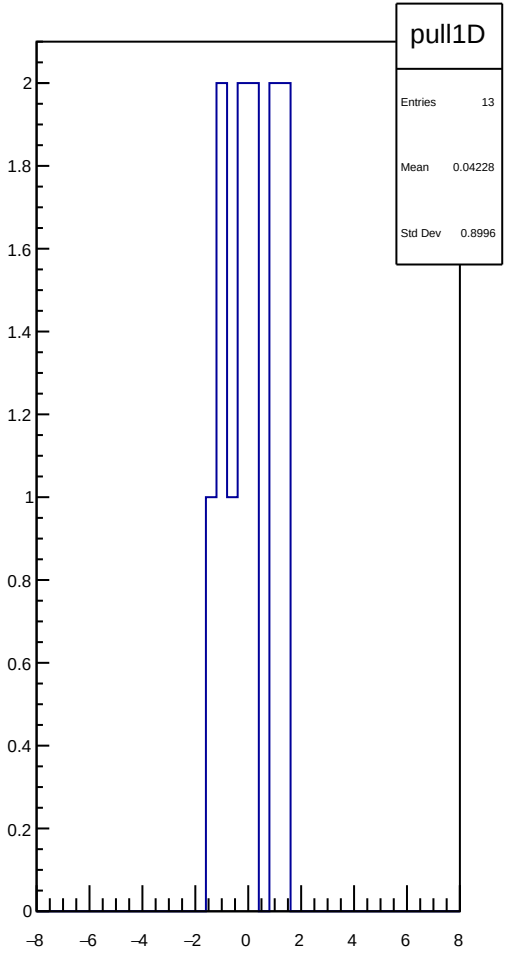
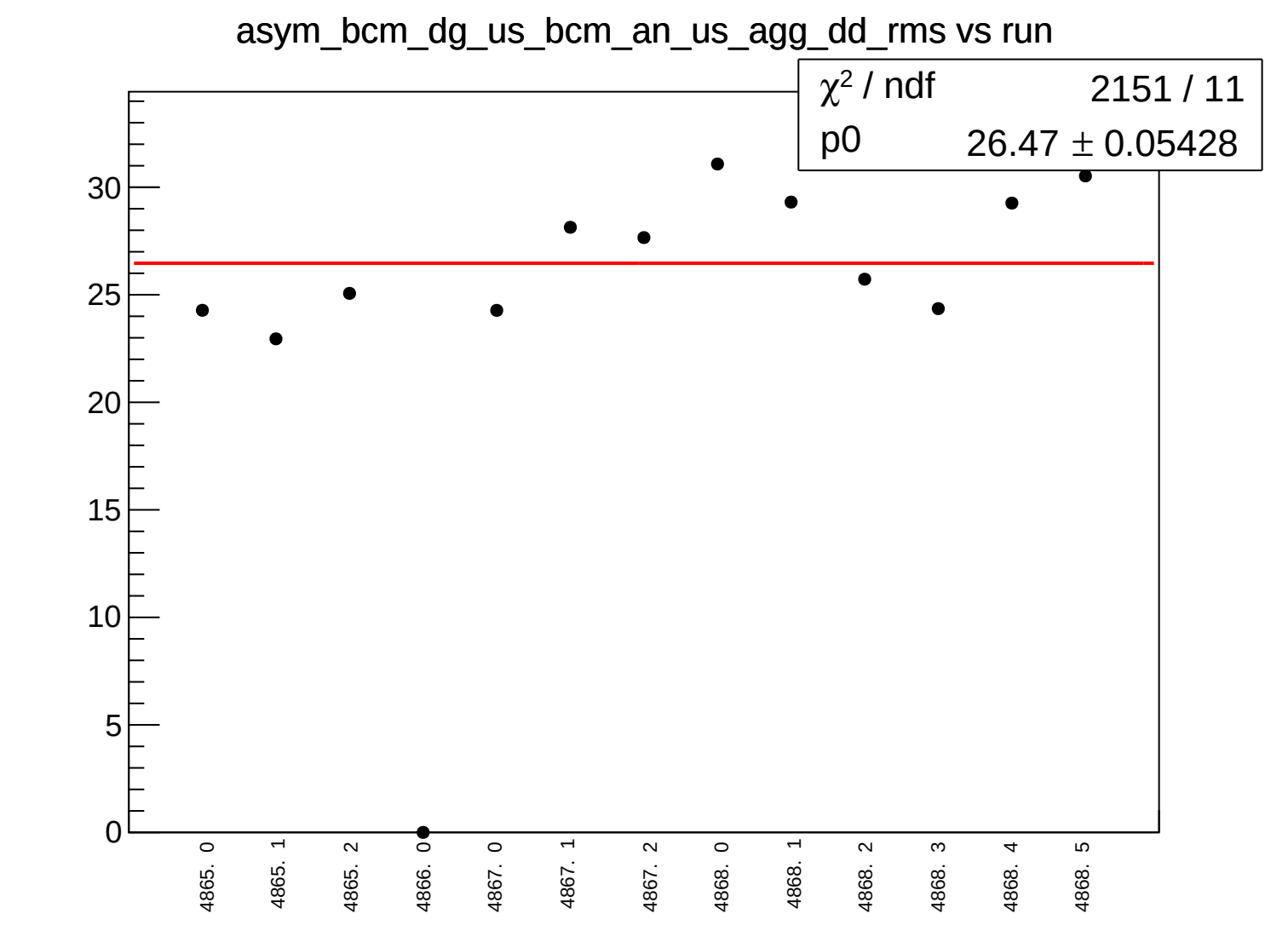
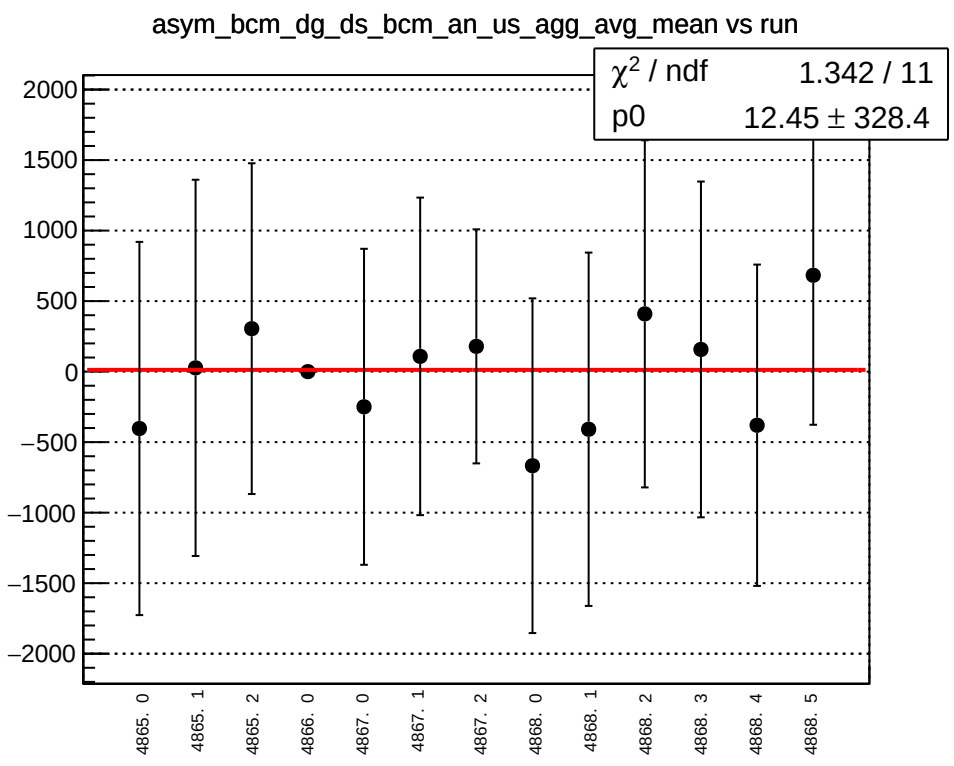
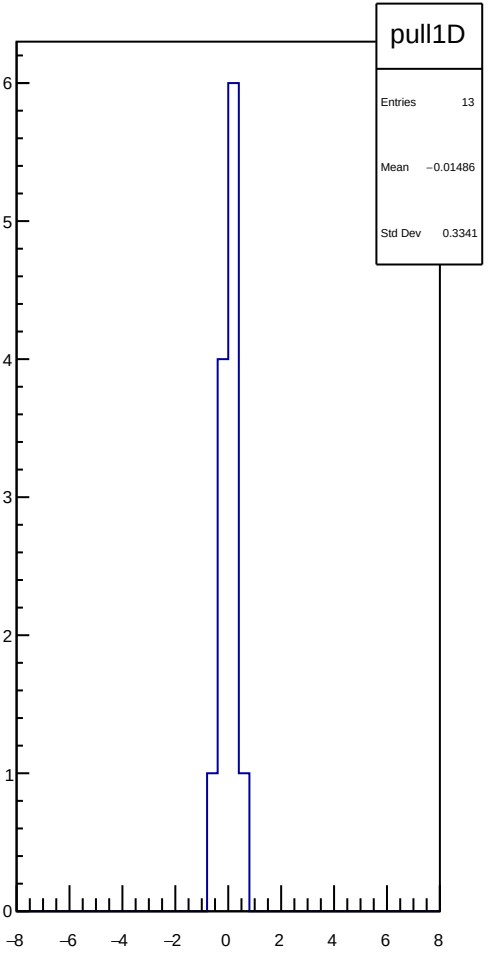
4868. 4
4868. 5

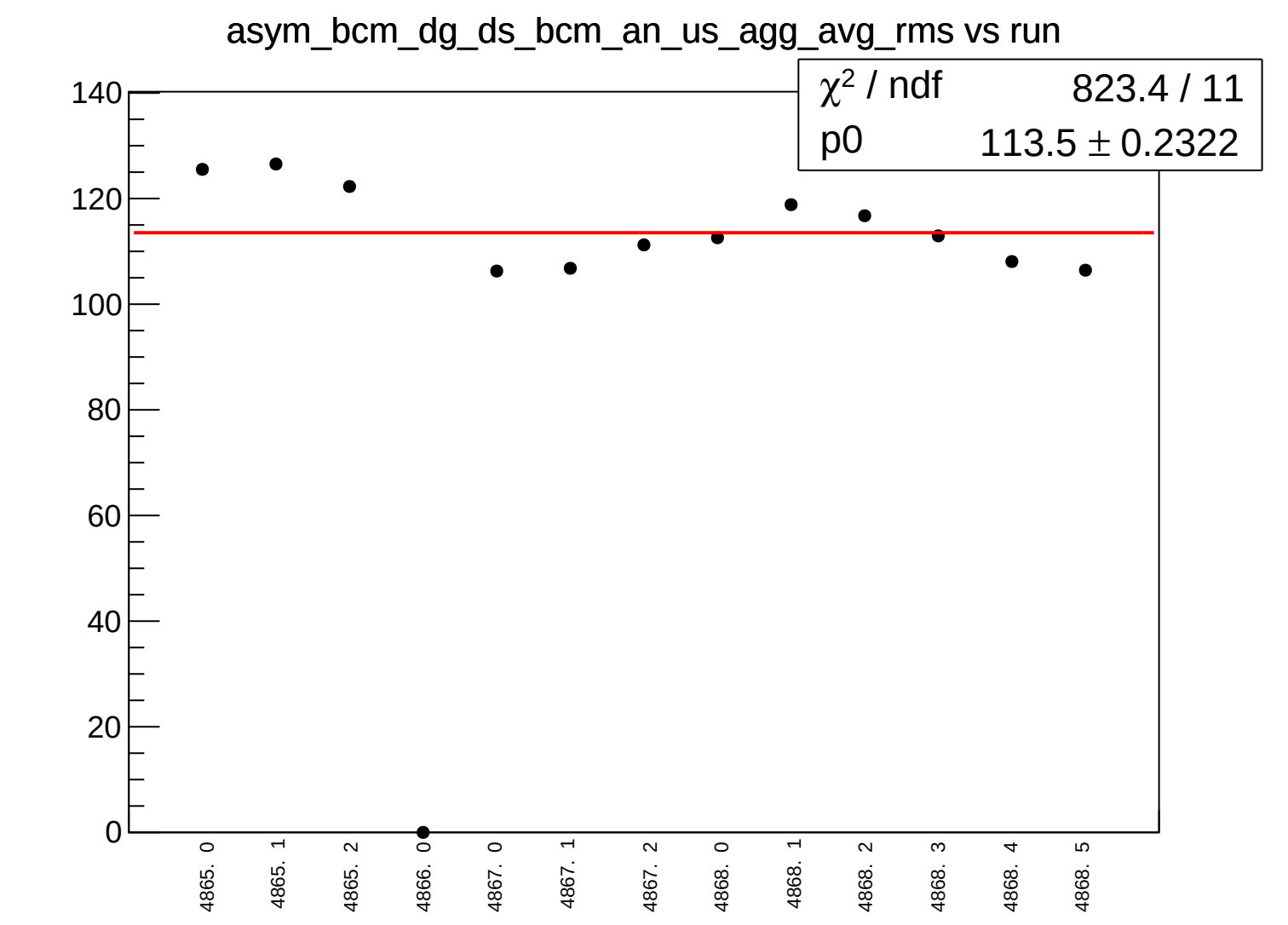

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 9.733 / 11
p0 194.1 ± 76.77
1000
800
600
400
200
0
−200
−400
−600
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

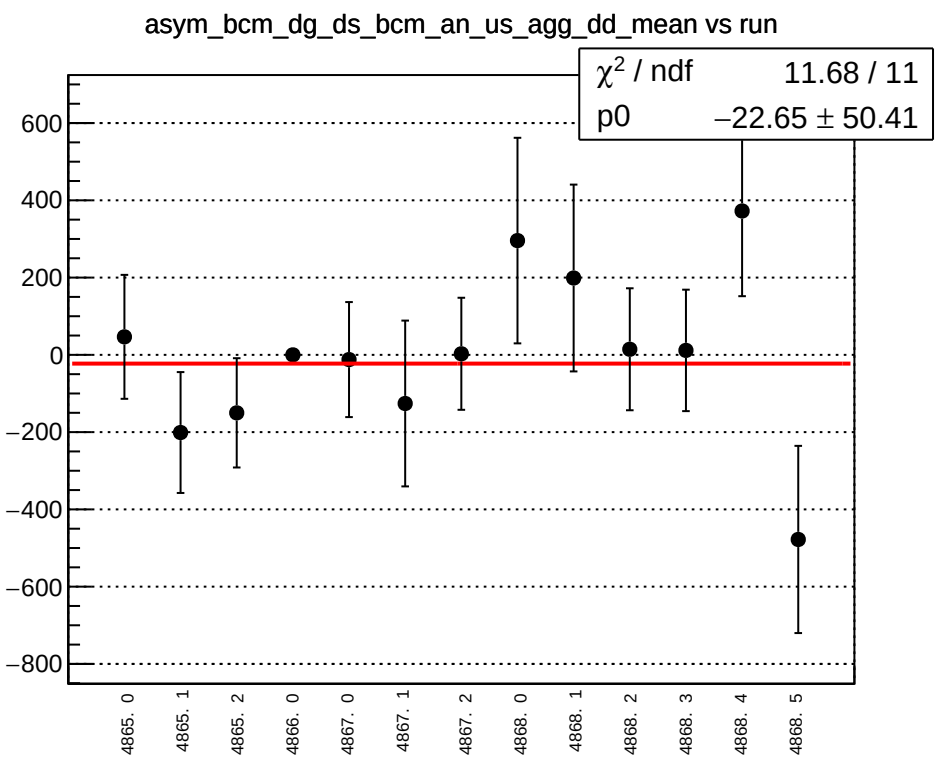

pull1D
Entries 13
Mean 0.04228
Std Dev 0.8996
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

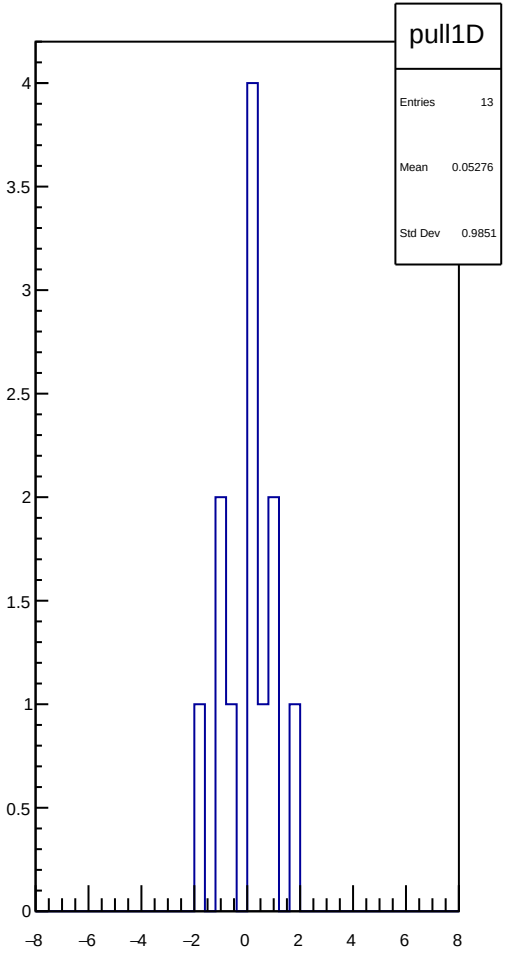

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2151 / 11
p0 26.47 ± 0.05428
30
25
20
15
10
5
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

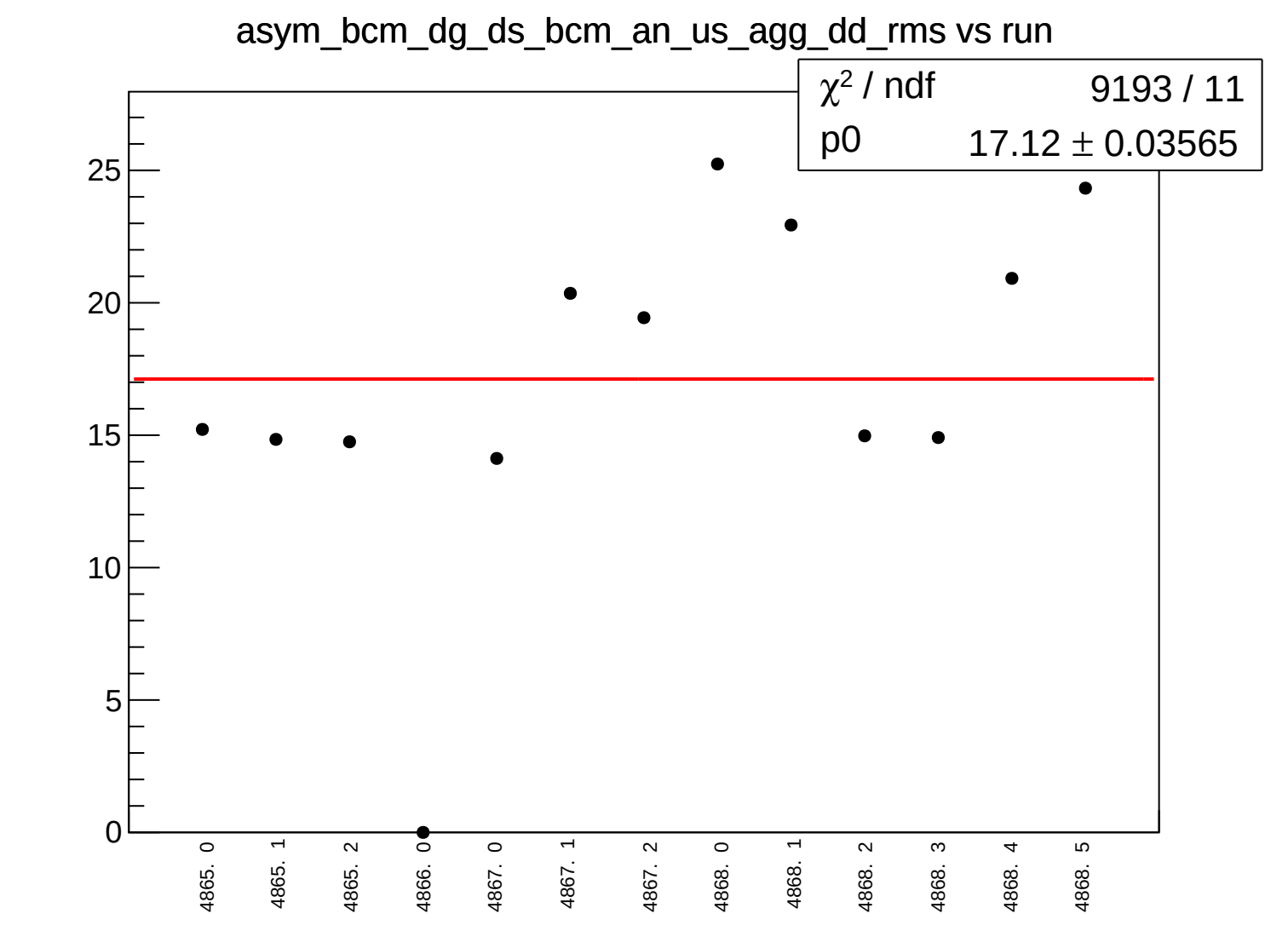

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 1.342 / 11
p0 12.45 ± 328.4
2000
1500
1000
500
0
−500
−1000
−1500
−2000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

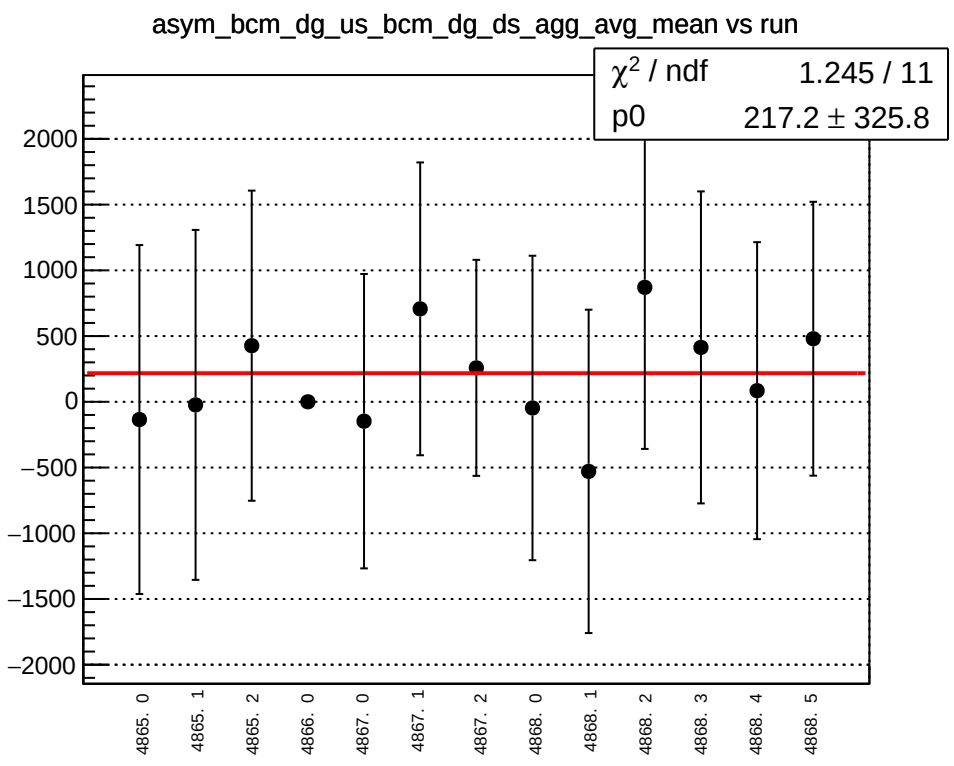

pull1D
Entries 13
Mean −0.01486
Std Dev 0.3341
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 823.4 / 11
p0 113.5 ± 0.2322
140
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 11.68 / 11
p0 −22.65 ± 50.41
600
400
200
0
−200
−400
−600
−800
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.05276
Std Dev 0.9851
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 9193 / 11
p0 17.12 ± 0.03565
25
20
15
10
5
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 1.245 / 11
p0 217.2 ± 325.8
2000
1500
1000
500
0
−500
−1000
−1500
−2000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
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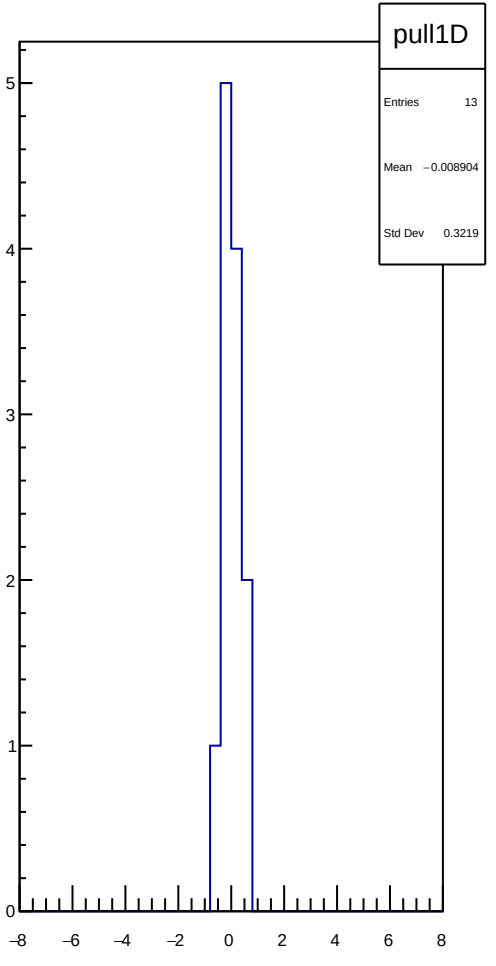
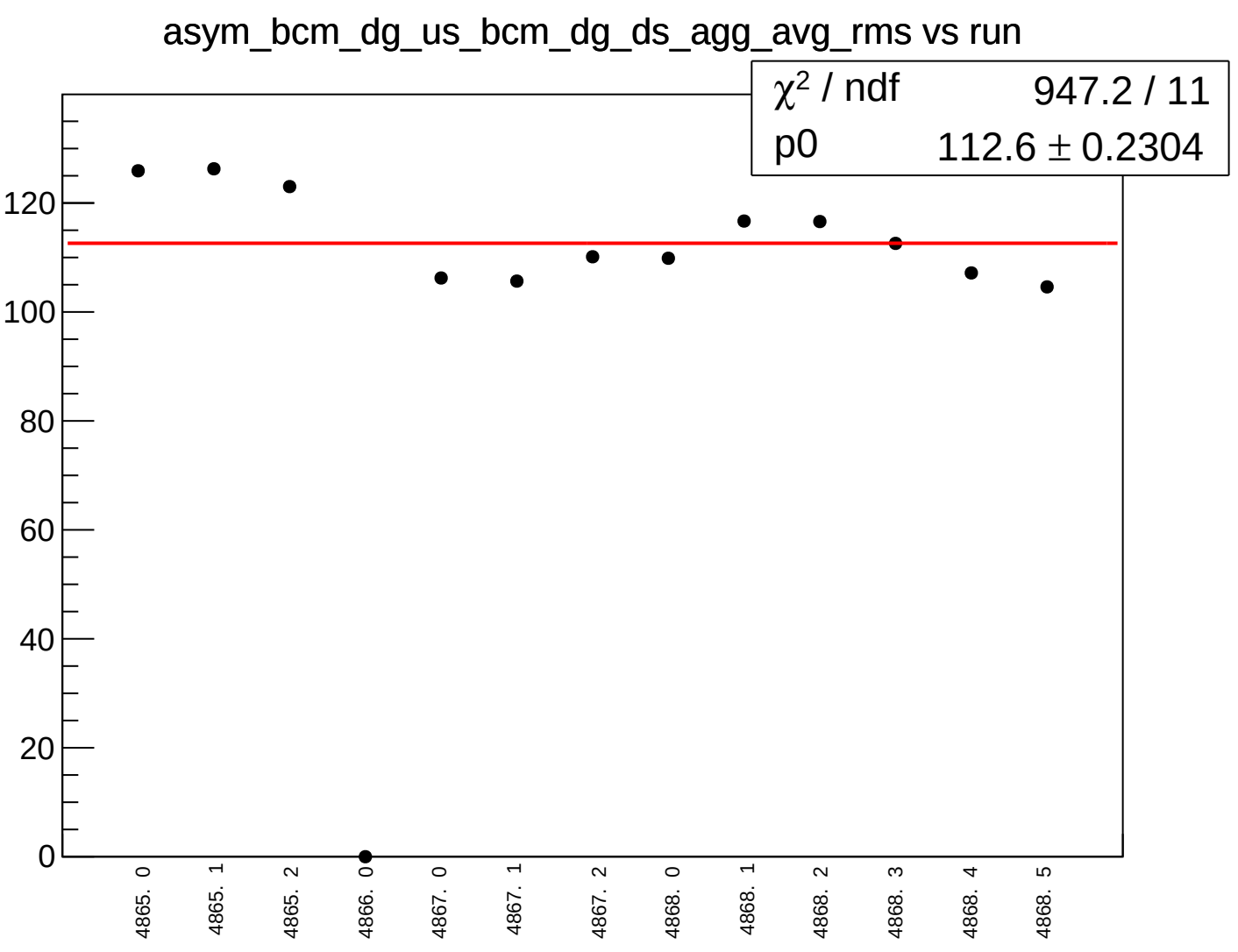
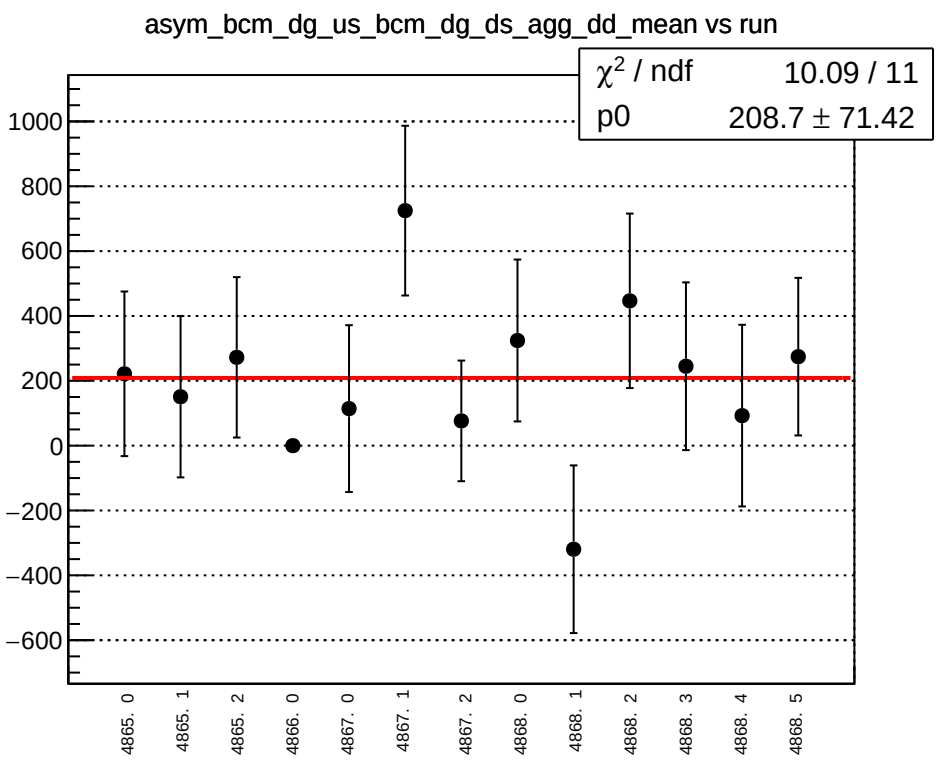
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.008904
Std Dev 0.3219
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 947.2 / 11
p0 112.6 ± 0.2304
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 10.09 / 11
p0 208.7 ± 71.42
1000
800
600
400
200
0
−200
−400
−600
4865. 0
4865. 1
4865. 2
4866. 0
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4868. 2
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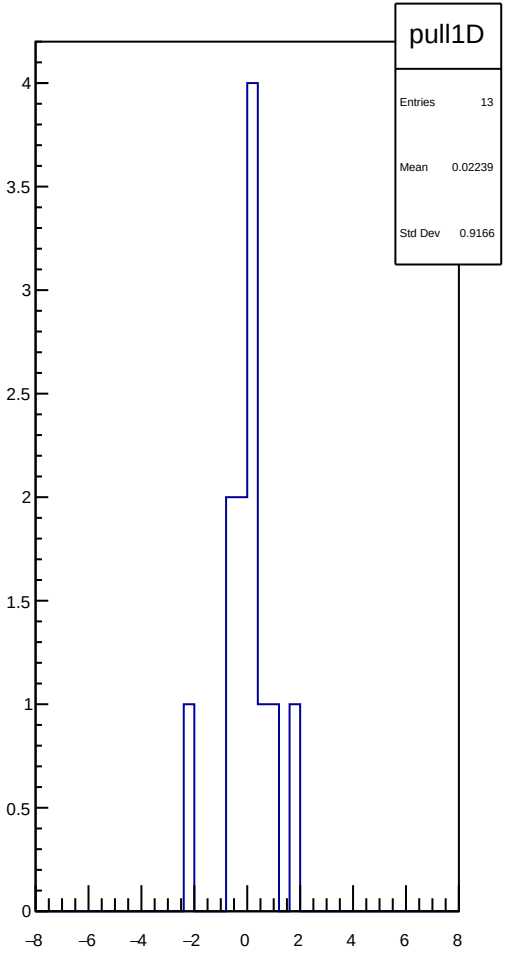
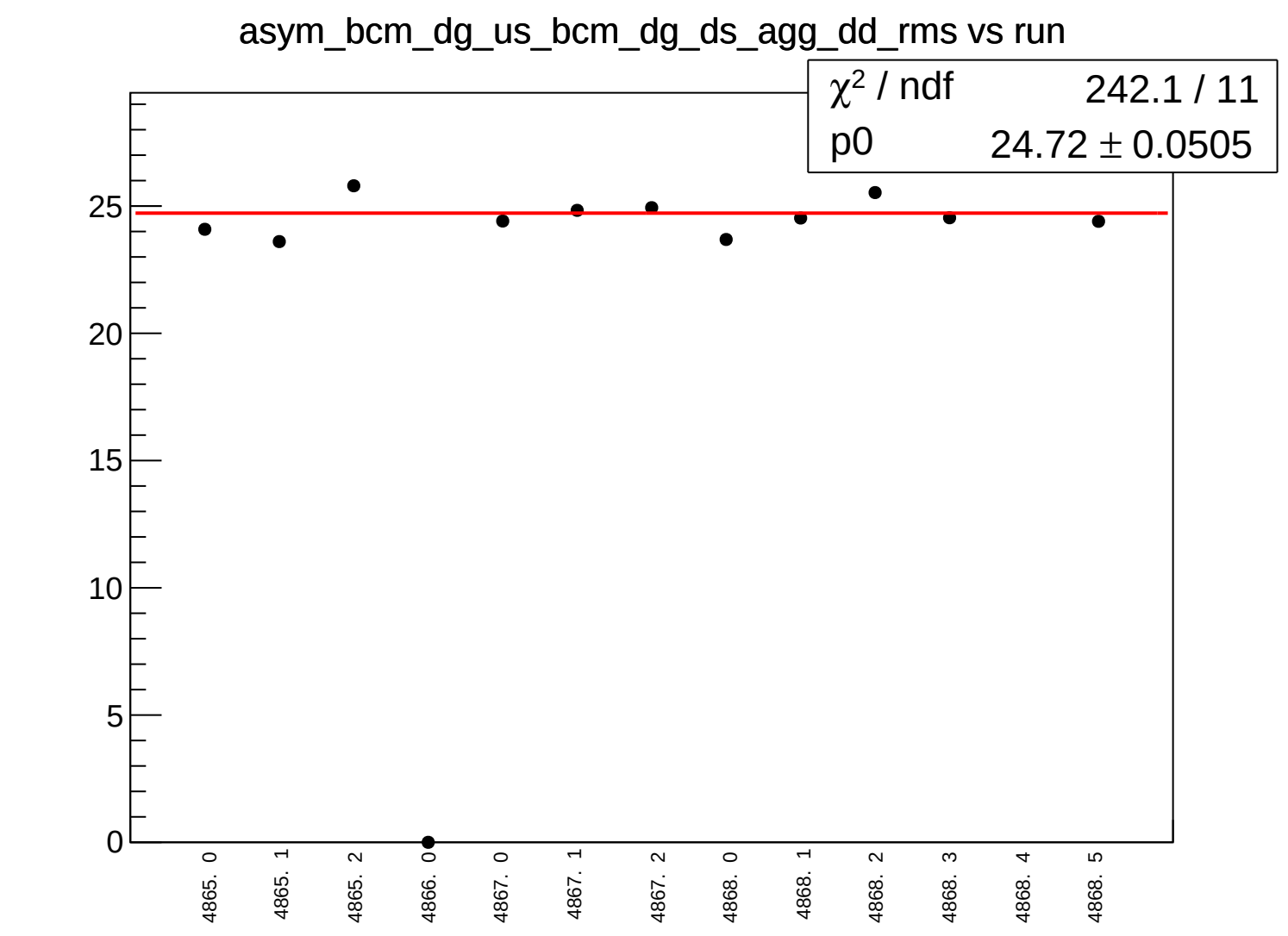
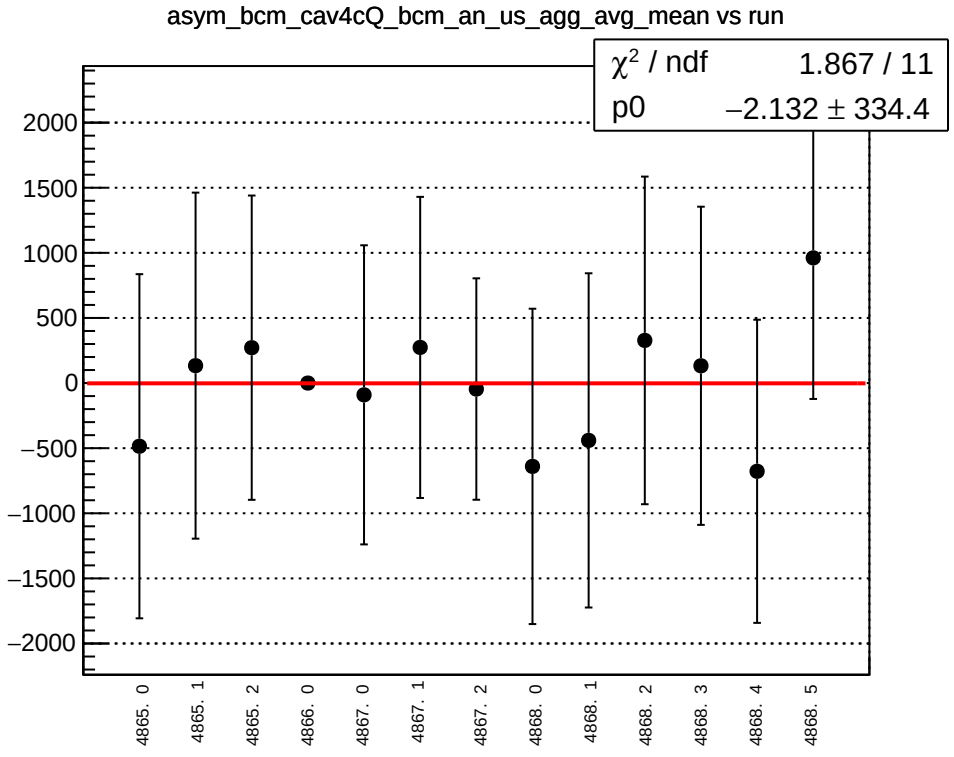
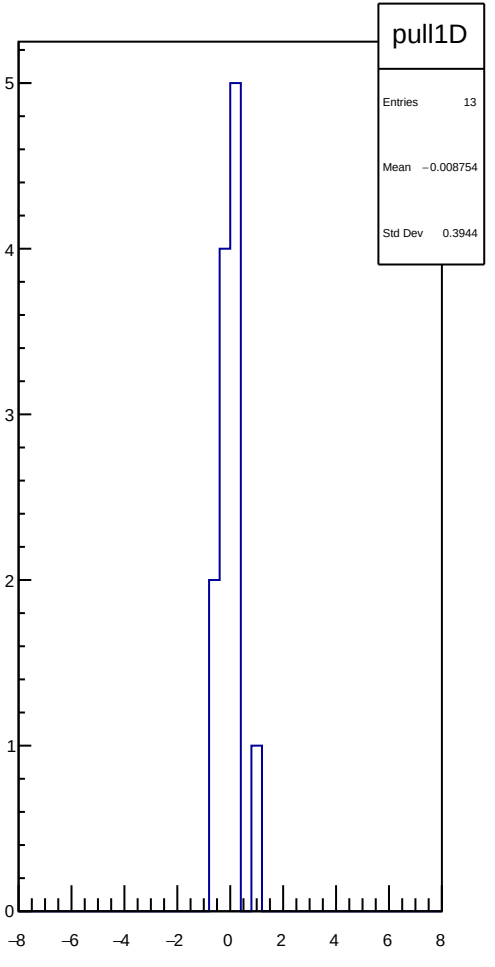
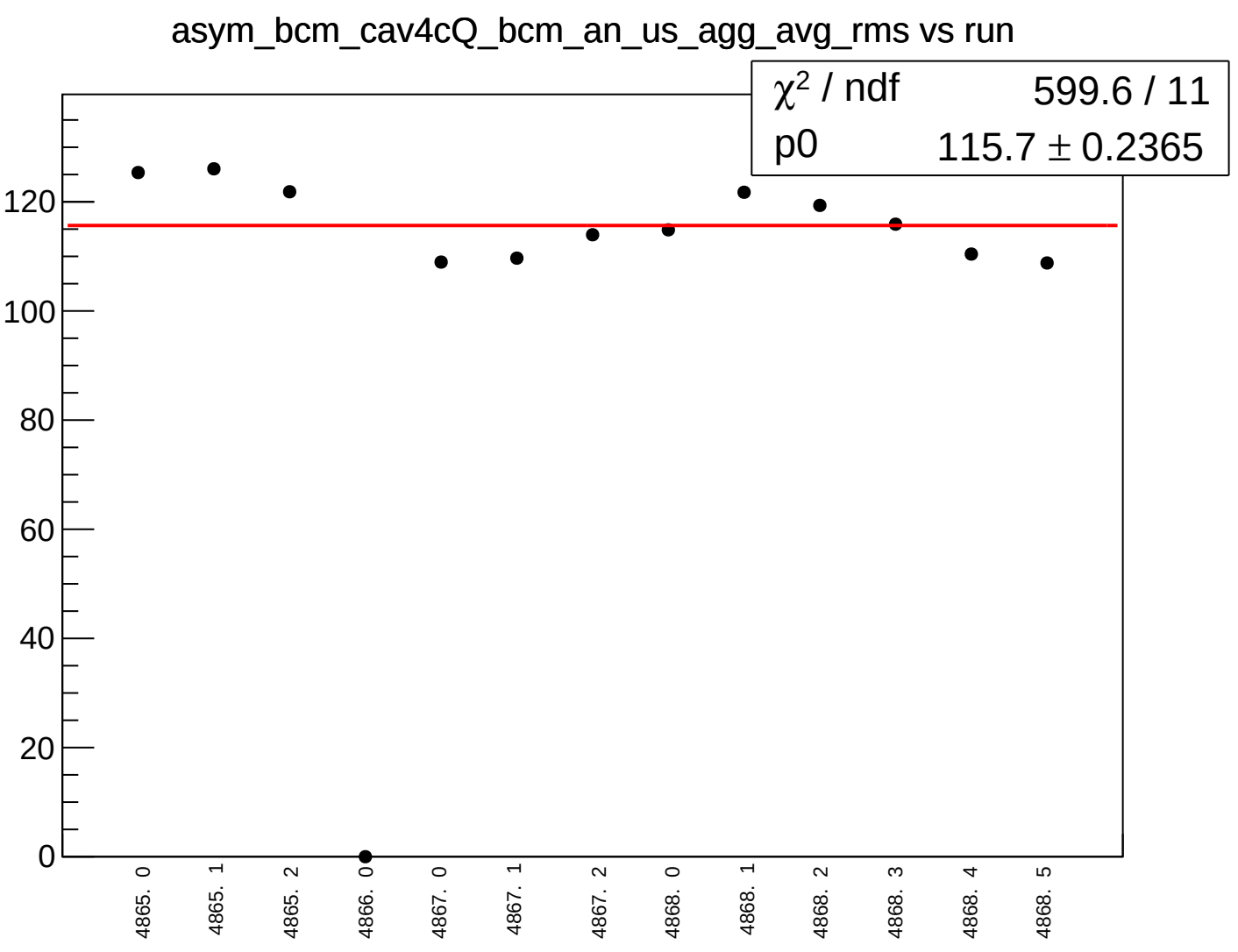
4868. 4
4868. 5

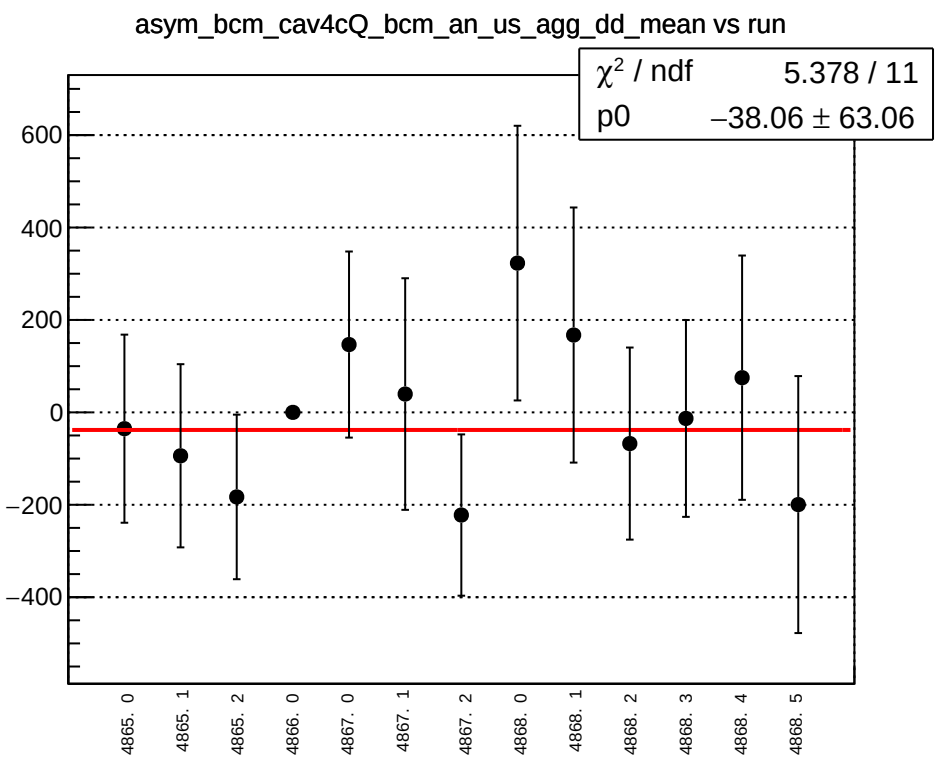

pull1D
Entries 13
Mean 0.02239
Std Dev 0.9166
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

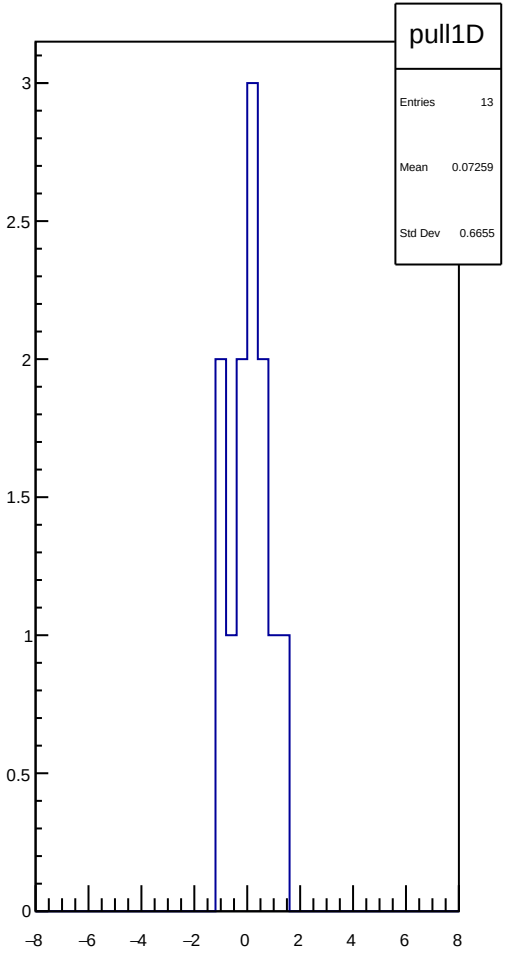

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 242.1 / 11
p0 24.72 ± 0.0505
25
20
15
10
5
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

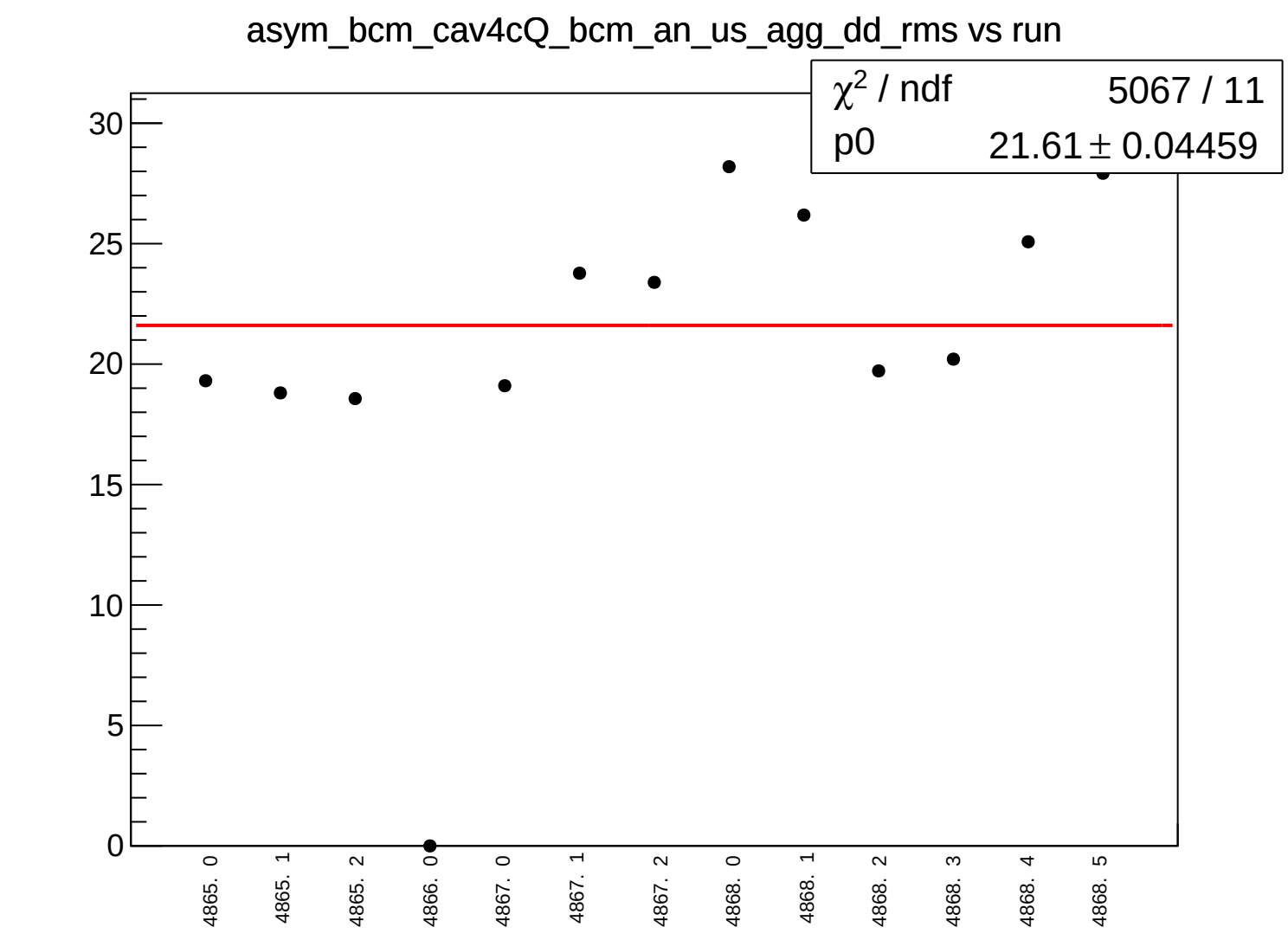

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 1.867 / 11
p0 −2.132 ± 334.4
2000
1500
1000
500
0
−500
−1000
−1500
−2000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

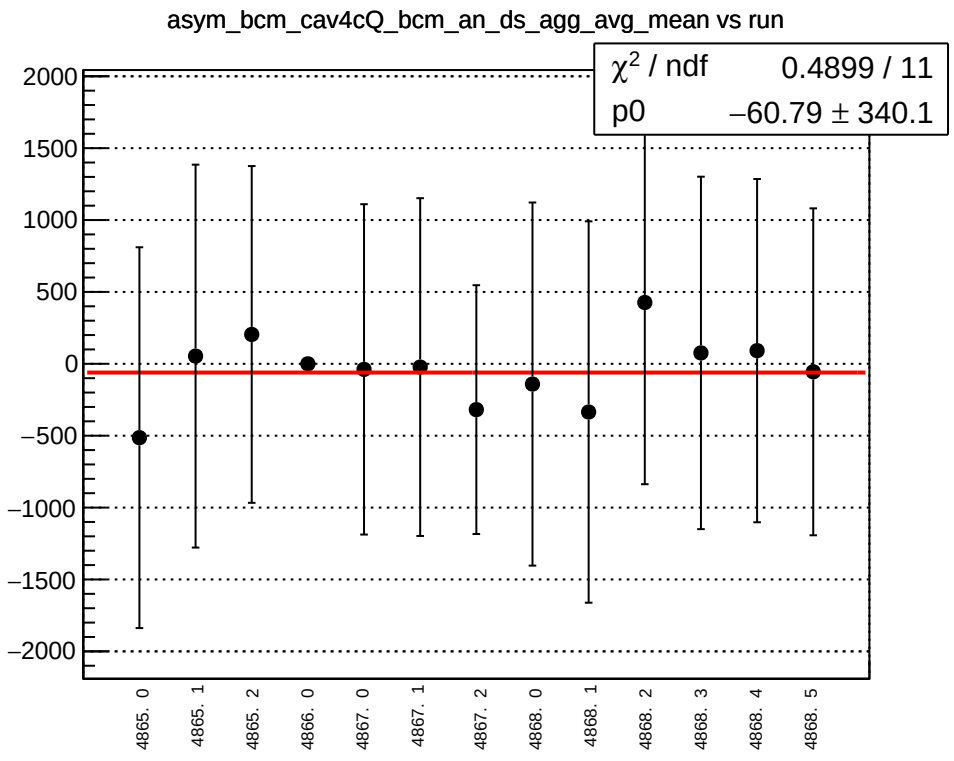

pull1D
Entries 13
Mean −0.008754
Std Dev 0.3944
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 599.6 / 11
p0 115.7 ± 0.2365
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 5.378 / 11
p0 −38.06 ± 63.06
600
400
200
0
−200
−400
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.07259
Std Dev 0.6655
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 5067 / 11
p0 21.61 ± 0.04459
30
25
20
15
10
5
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 0.4899 / 11
p0 −60.79 ± 340.1
2000
1500
1000
500
0
−500
−1000
−1500
−2000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
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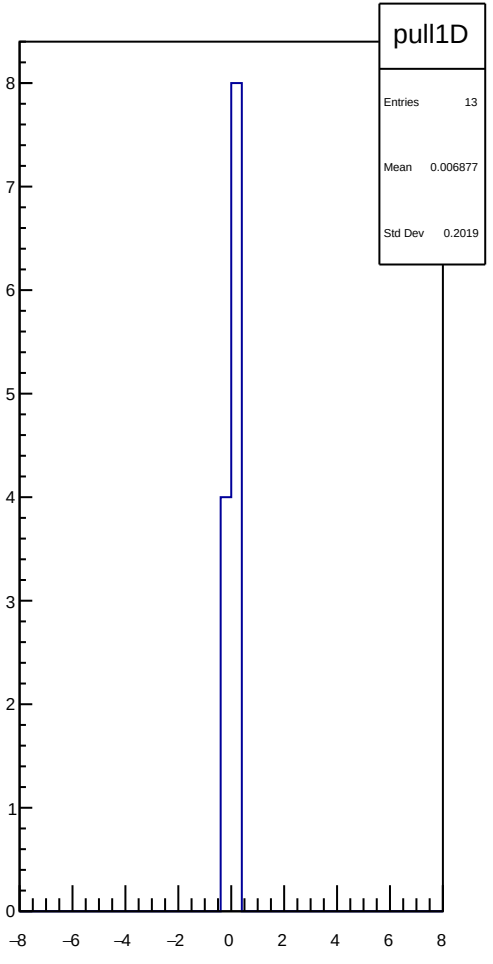
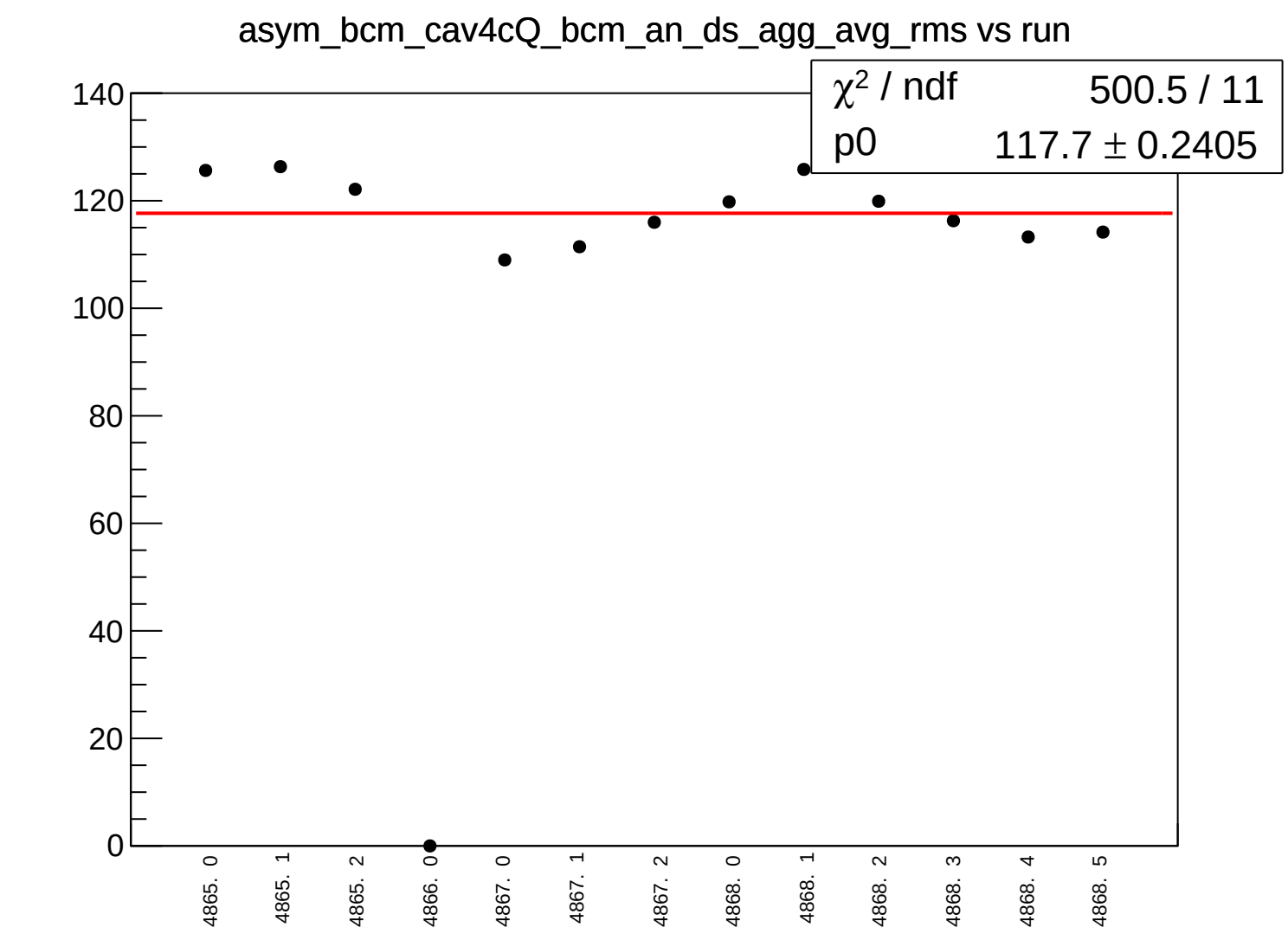
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.006877
Std Dev 0.2019
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 500.5 / 11
p0 117.7 ± 0.2405
140
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
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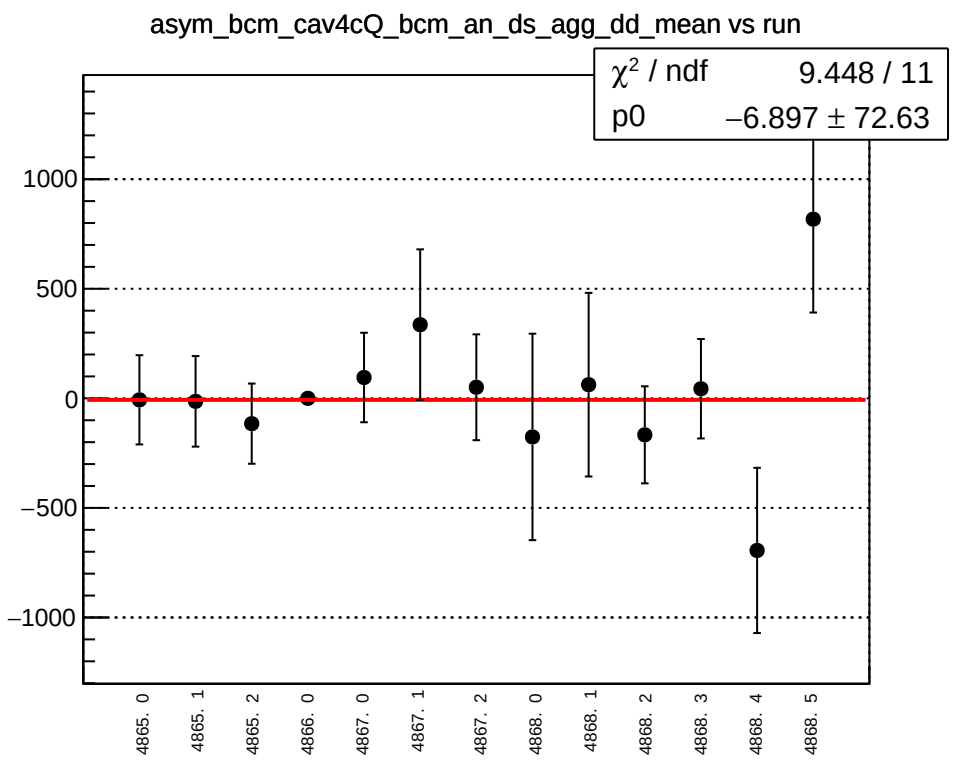
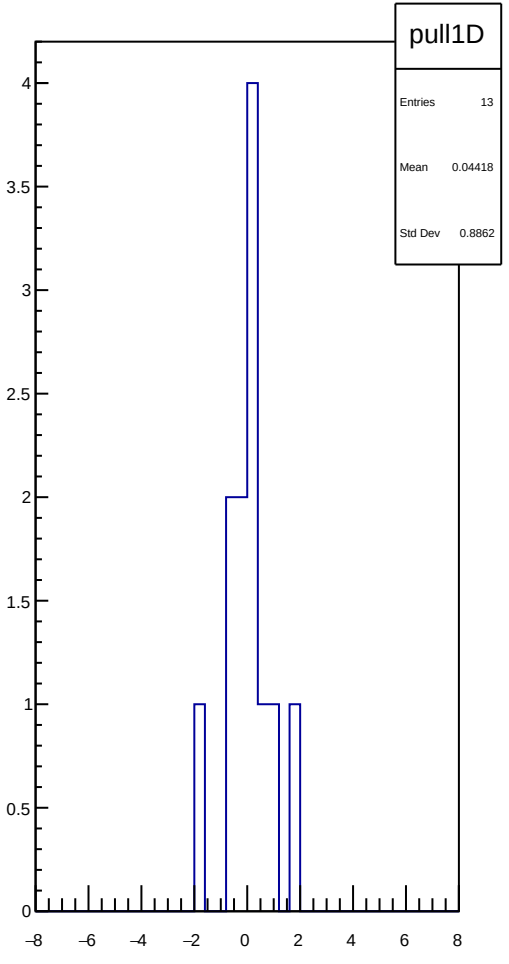
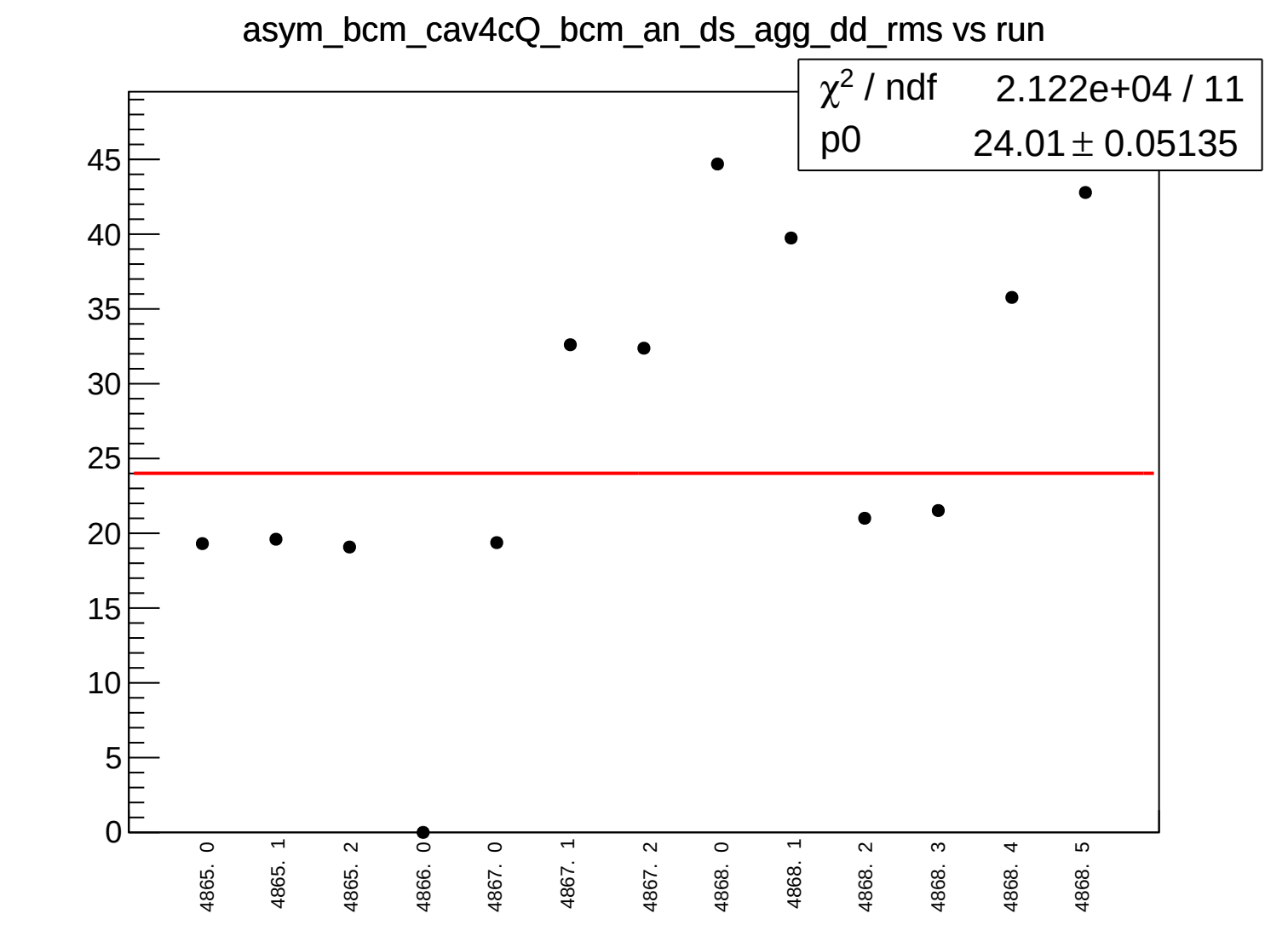
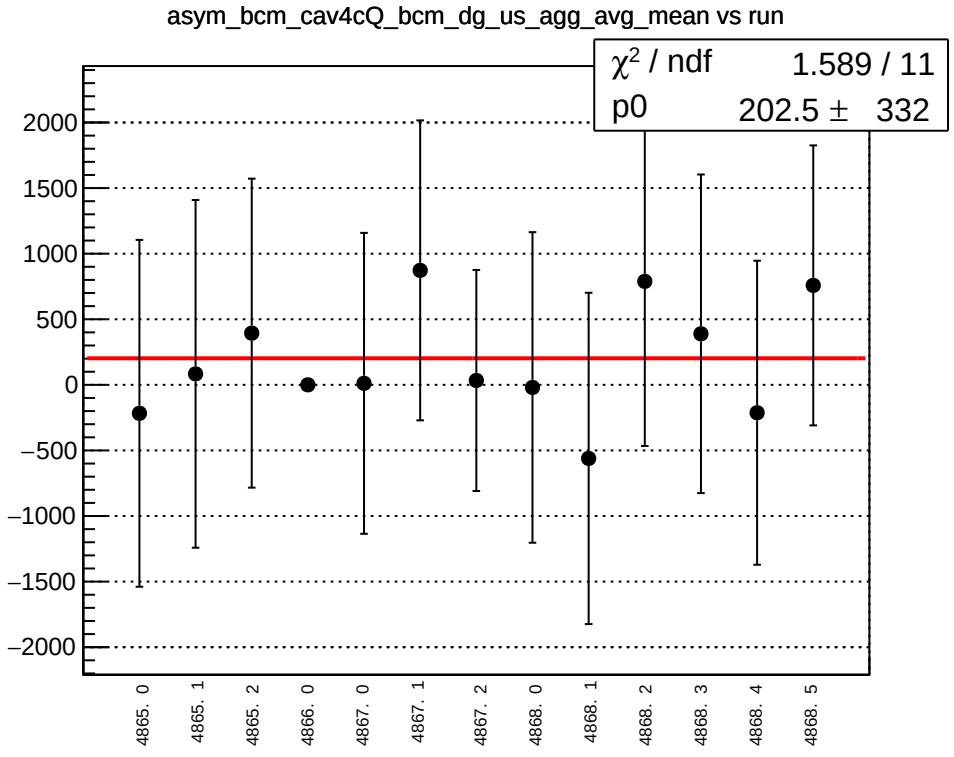
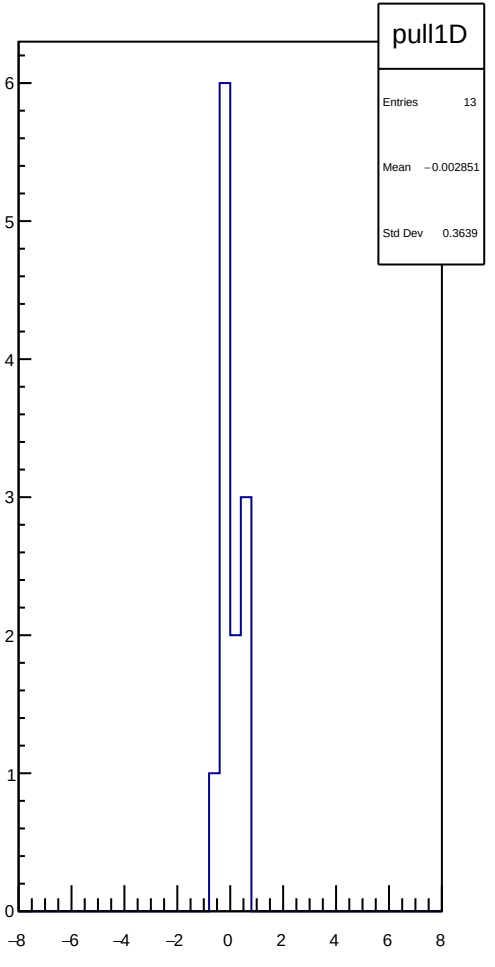
4868. 4
4868. 5

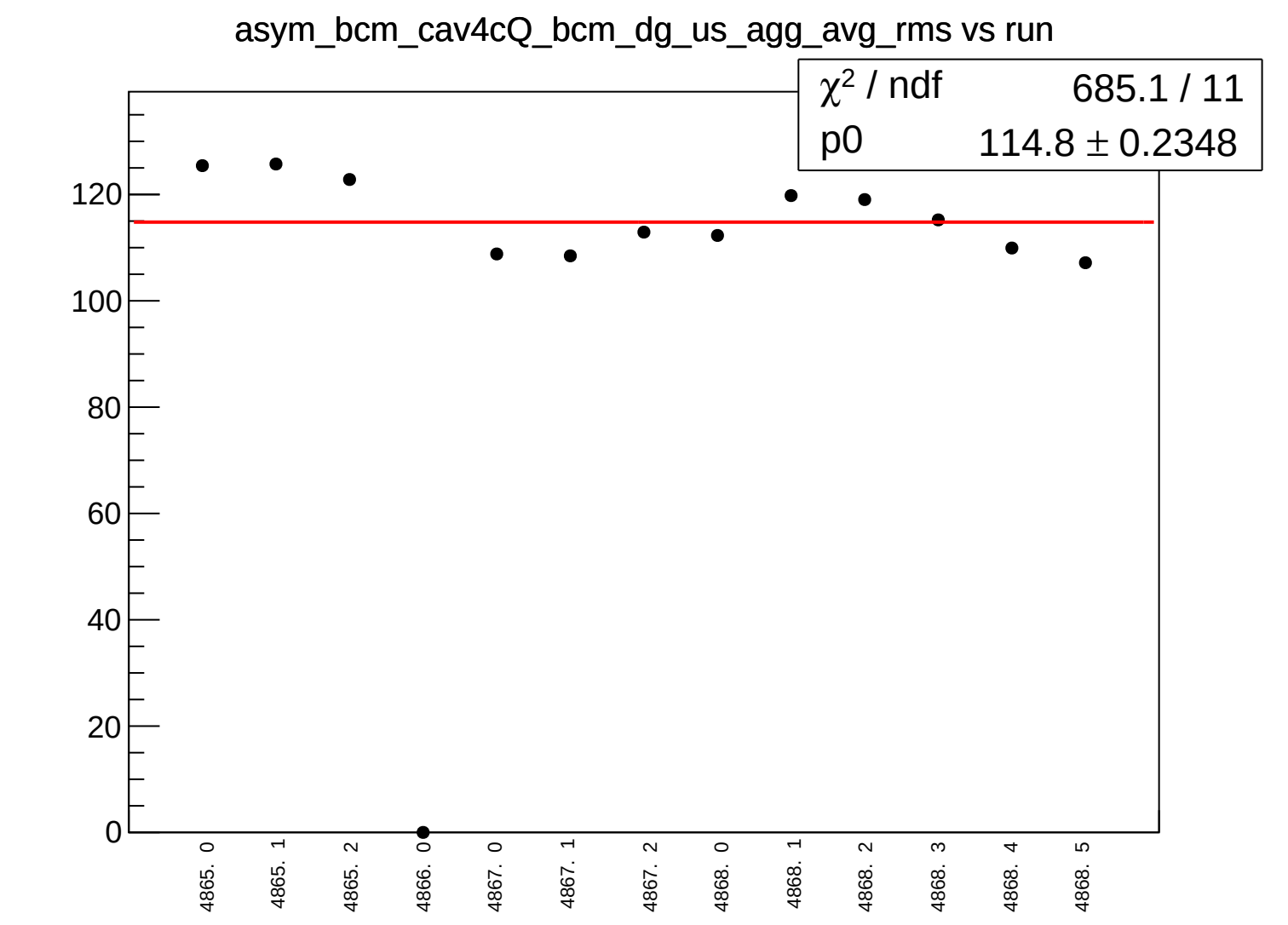

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 9.448 / 11
p0 −6.897 ± 72.63
1000
500
0
−500
−1000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.04418
Std Dev 0.8862
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2.122e+04 / 11
p0 24.01 ± 0.05135
45
40
35
30
25
20
15
10
5
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 1.589 / 11
p0 202.5 ± 332
2000
1500
1000
500
0
−500
−1000
−1500
−2000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.002851
Std Dev 0.3639
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 685.1 / 11
p0 114.8 ± 0.2348
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
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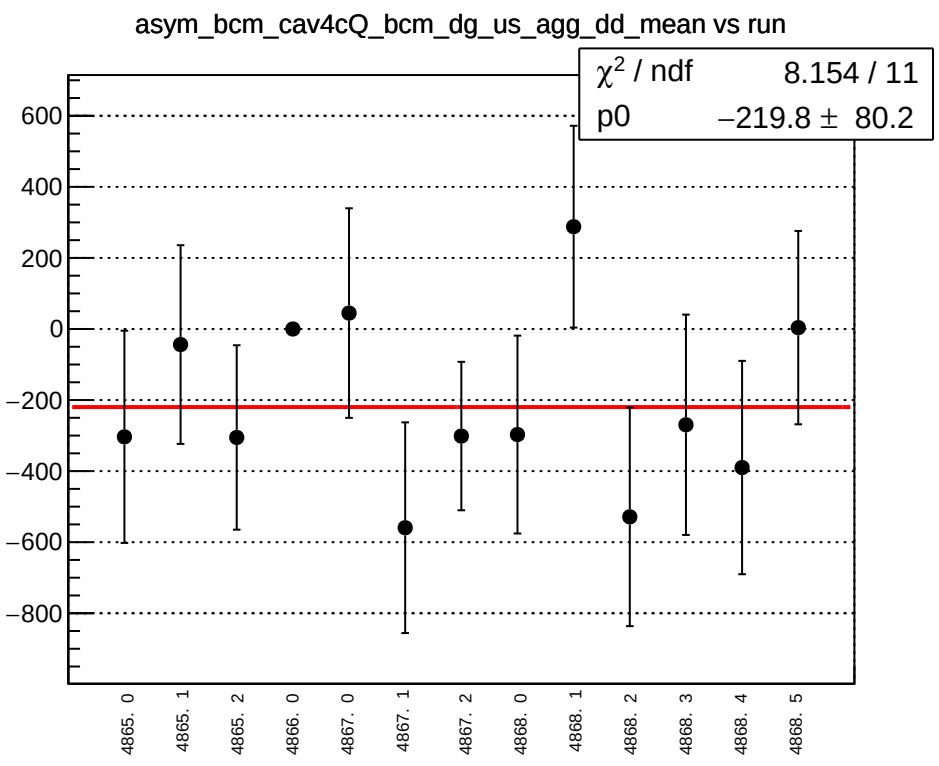
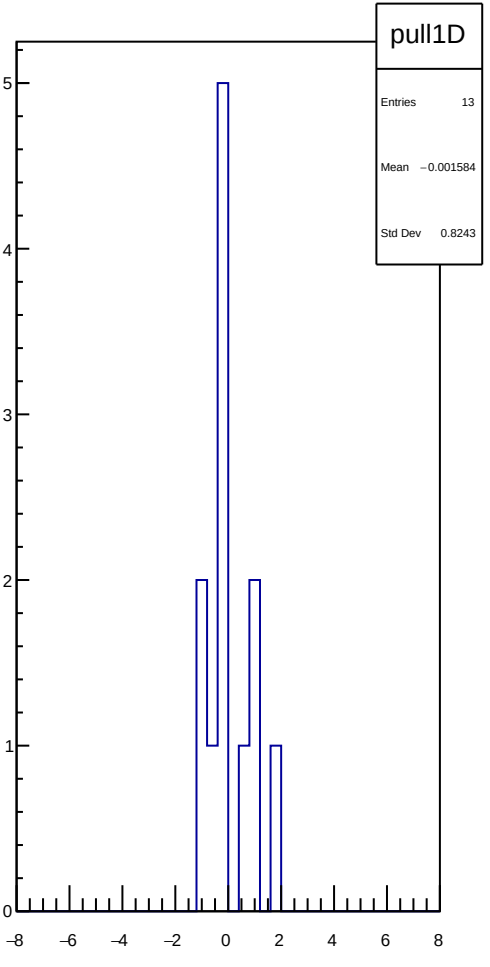
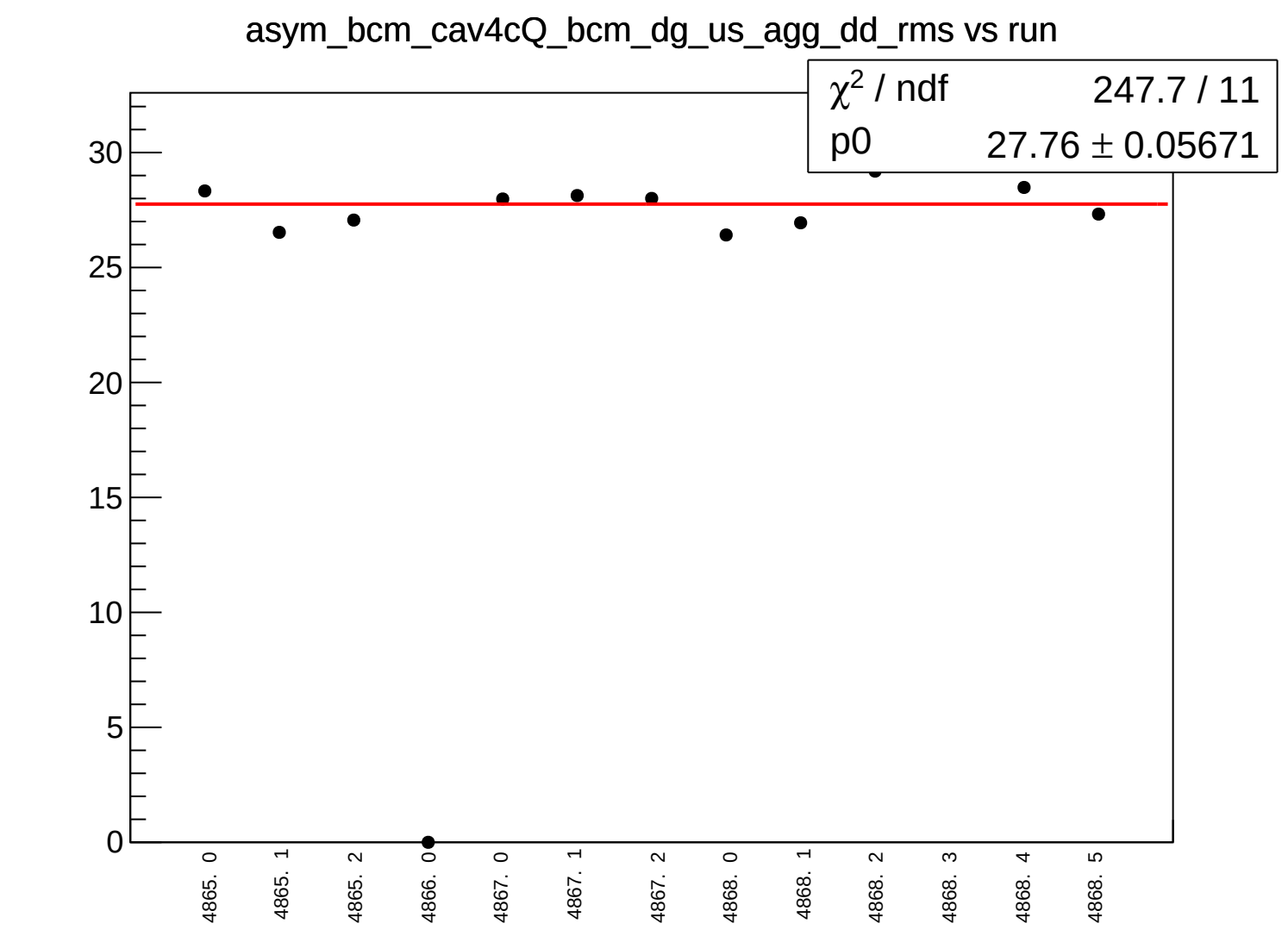
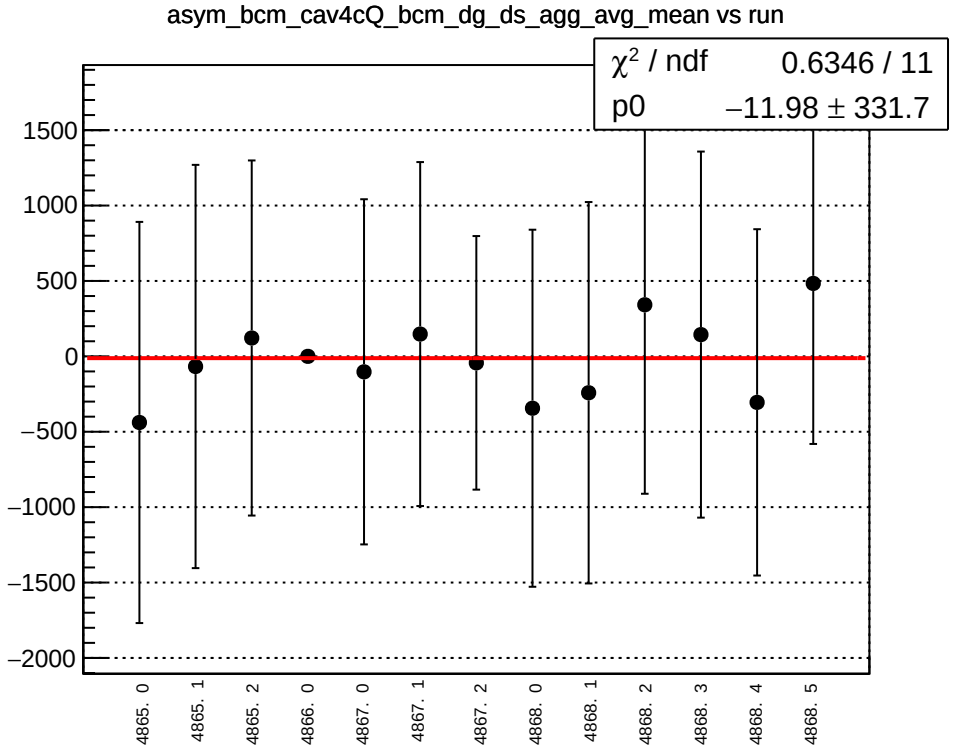
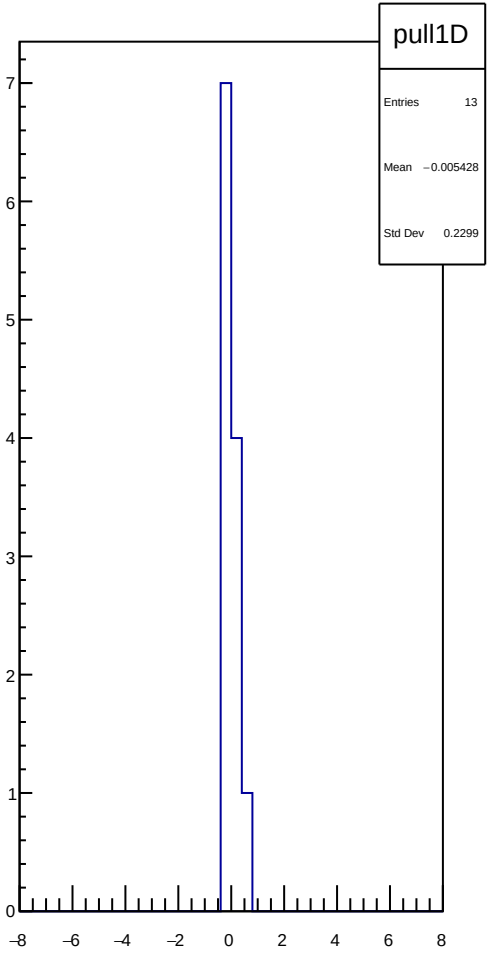
4868. 4
4868. 5

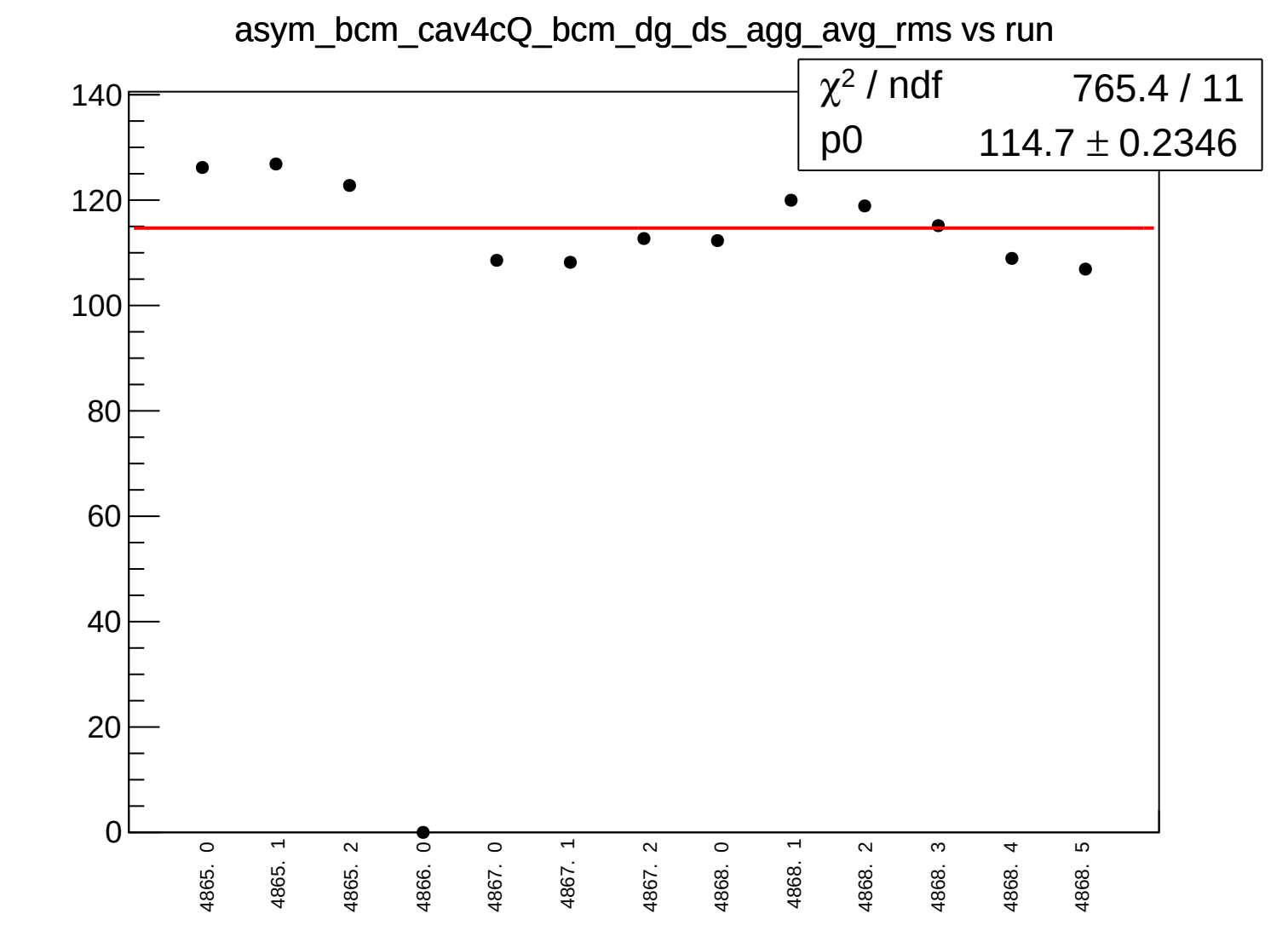

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 8.154 / 11
p0 −219.8 ± 80.2
600
400
200
0
−200
−400
−600
−800
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

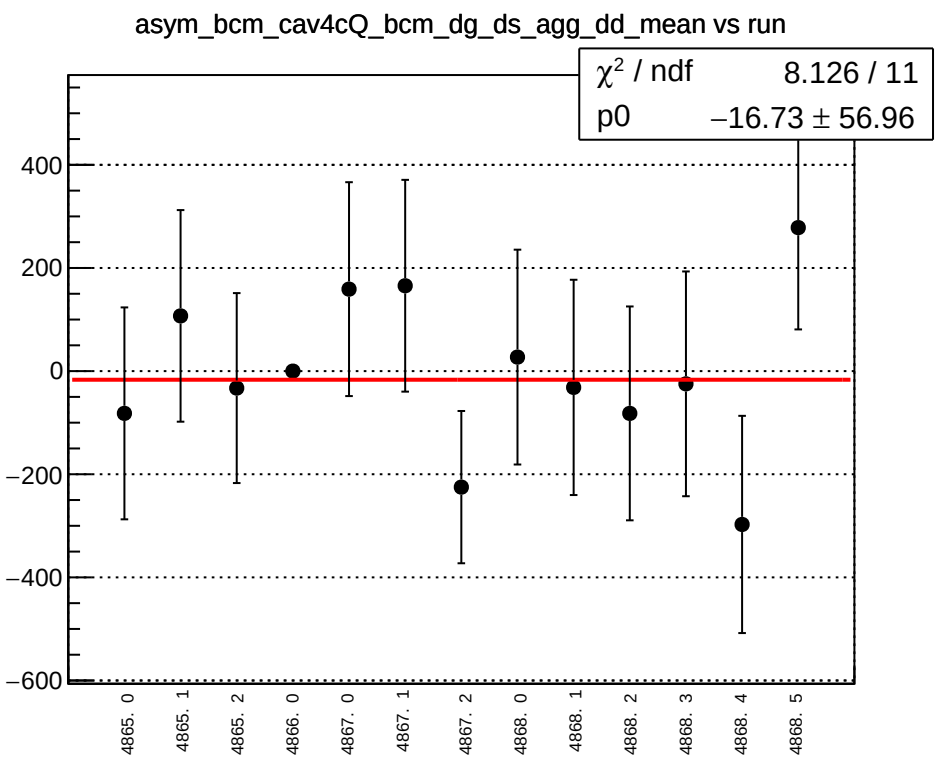

pull1D
Entries 13
Mean −0.001584
Std Dev 0.8243
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 247.7 / 11
p0 27.76 ± 0.05671
30
25
20
15
10
5
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 0.6346 / 11
p0 −11.98 ± 331.7
1500
1000
500
0
−500
−1000
−1500
−2000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.005428
Std Dev 0.2299
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 765.4 / 11
p0 114.7 ± 0.2346
140
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 8.126 / 11
p0 −16.73 ± 56.96
400
200
0
−200
−400
−600
4865. 0
4865. 1
4865. 2
4866. 0
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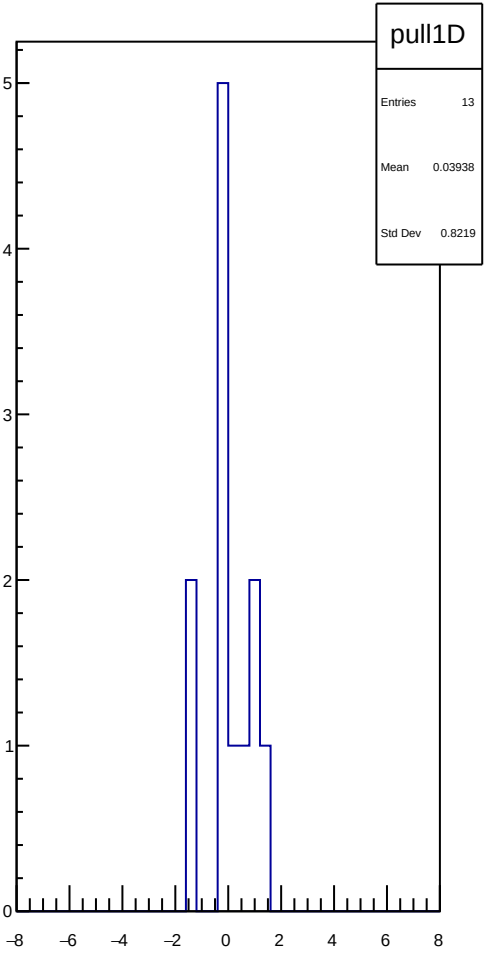
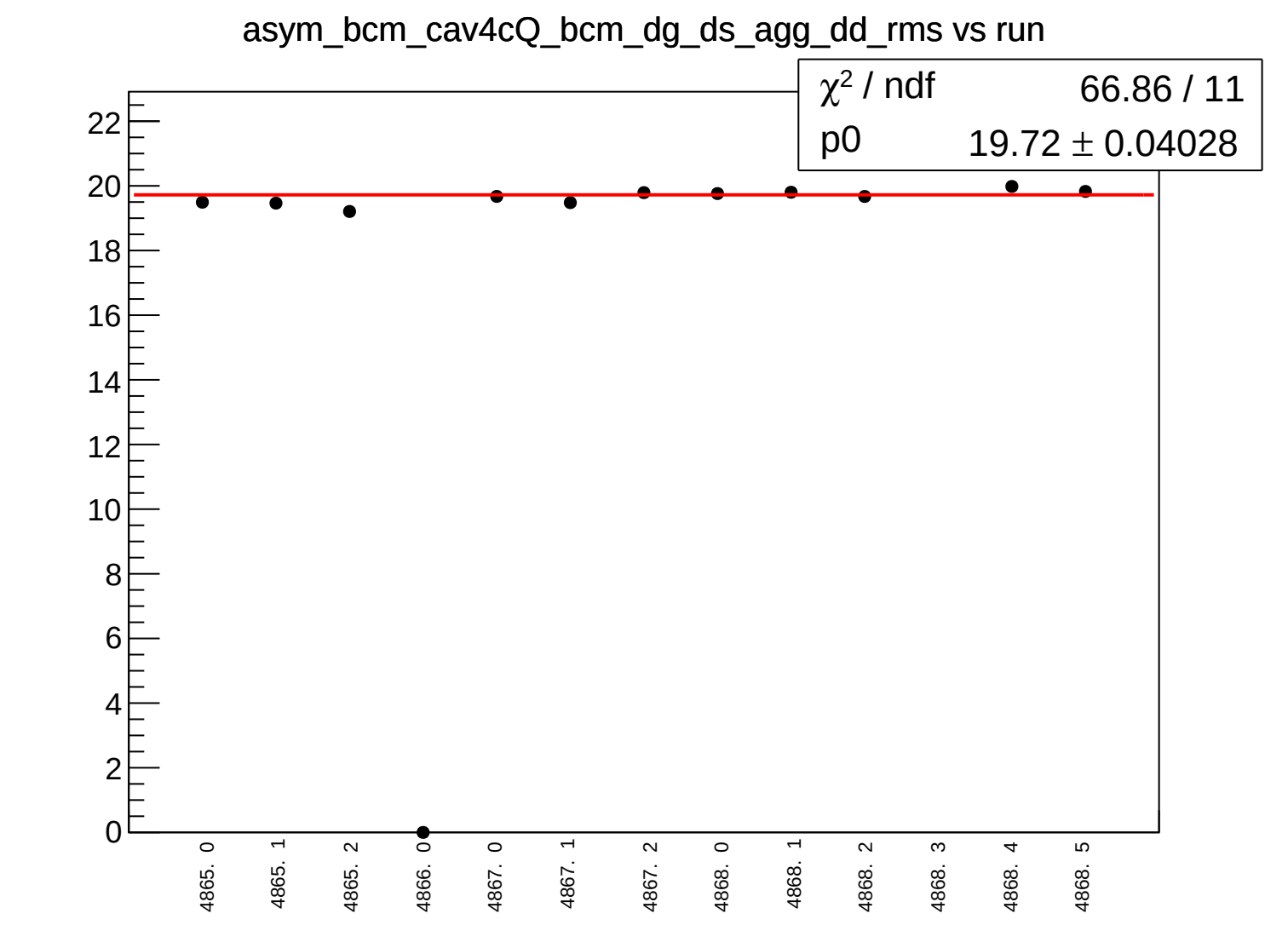
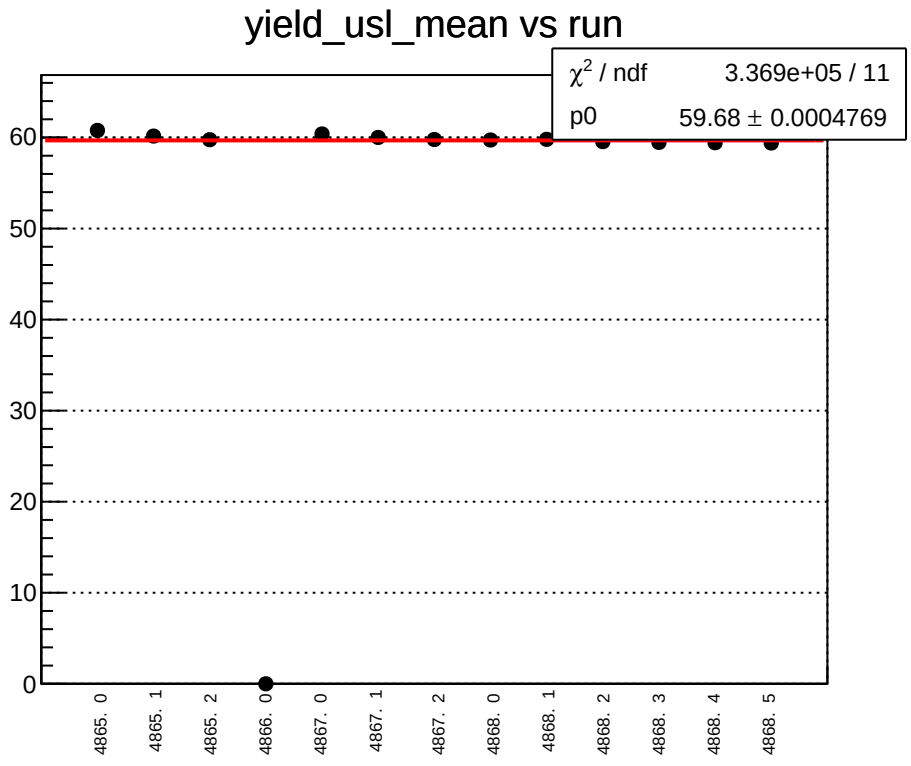
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.03938
Std Dev 0.8219
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 66.86 / 11
p0 19.72 ± 0.04028
22
20
18
16
14
12
10
8
6
4
2
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


yield_usl_mean vs run
χ² / ndf 3.369e+05 / 11
p0 59.68 ± 0.0004769
60
50
40
30
20
10
0
4865. 0
4865. 1
4865. 2
4866. 0
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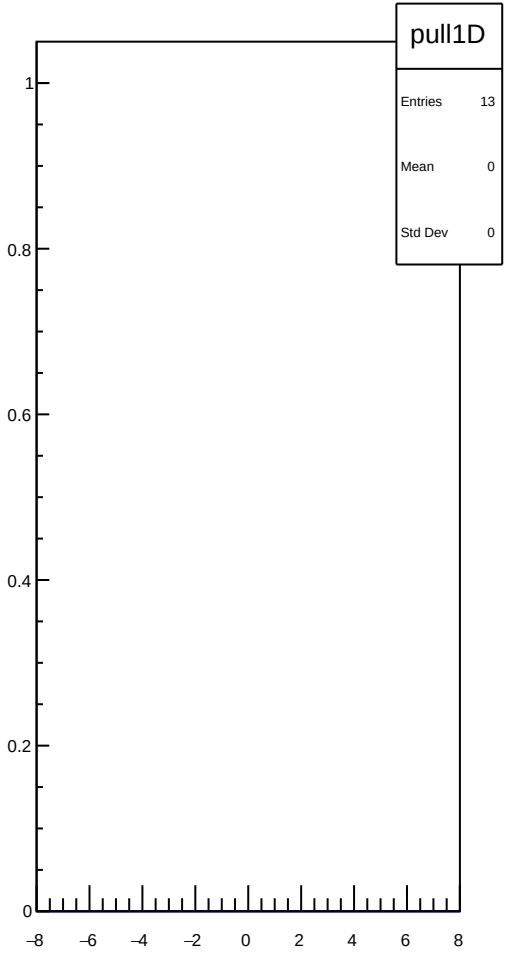
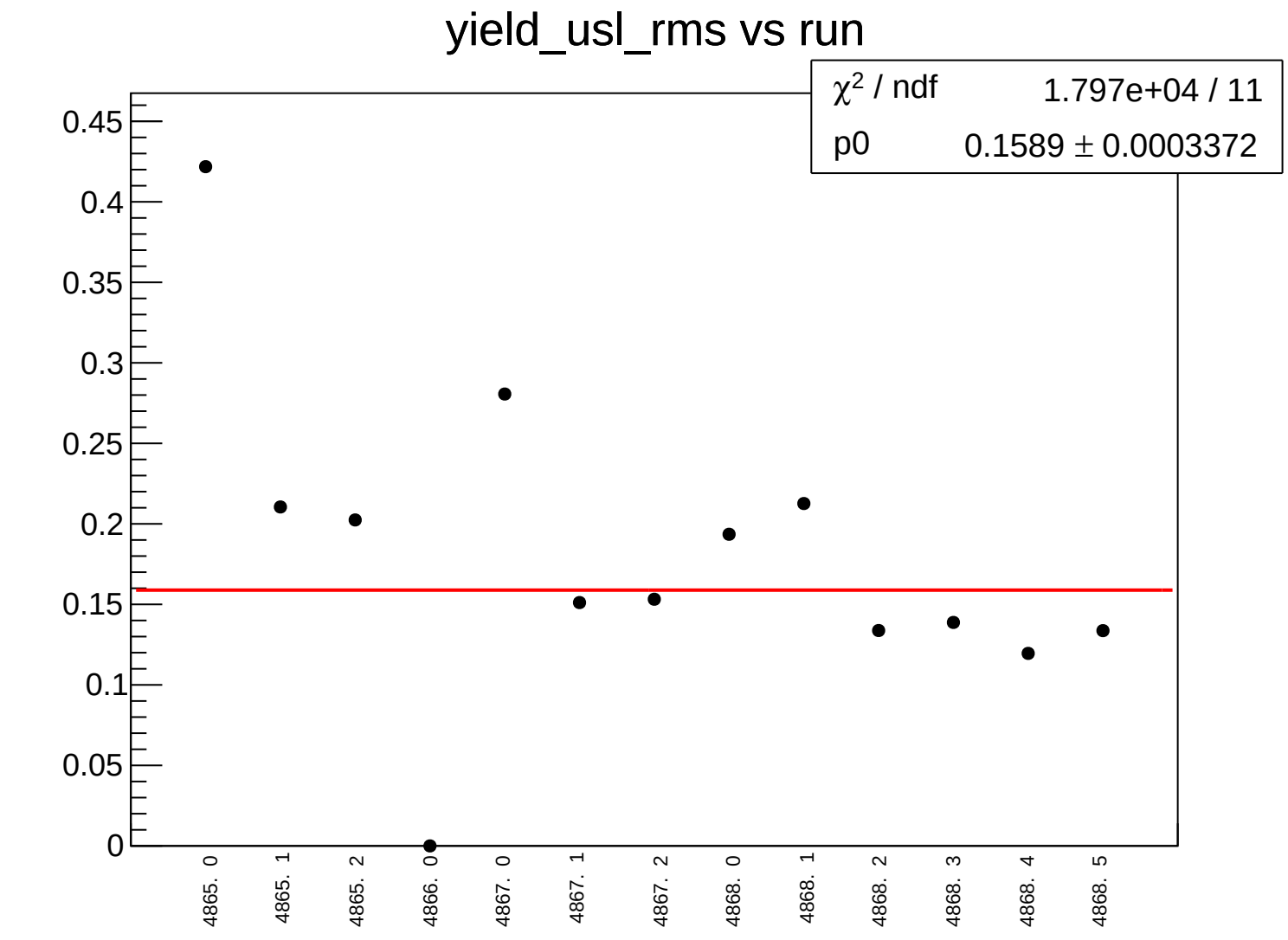
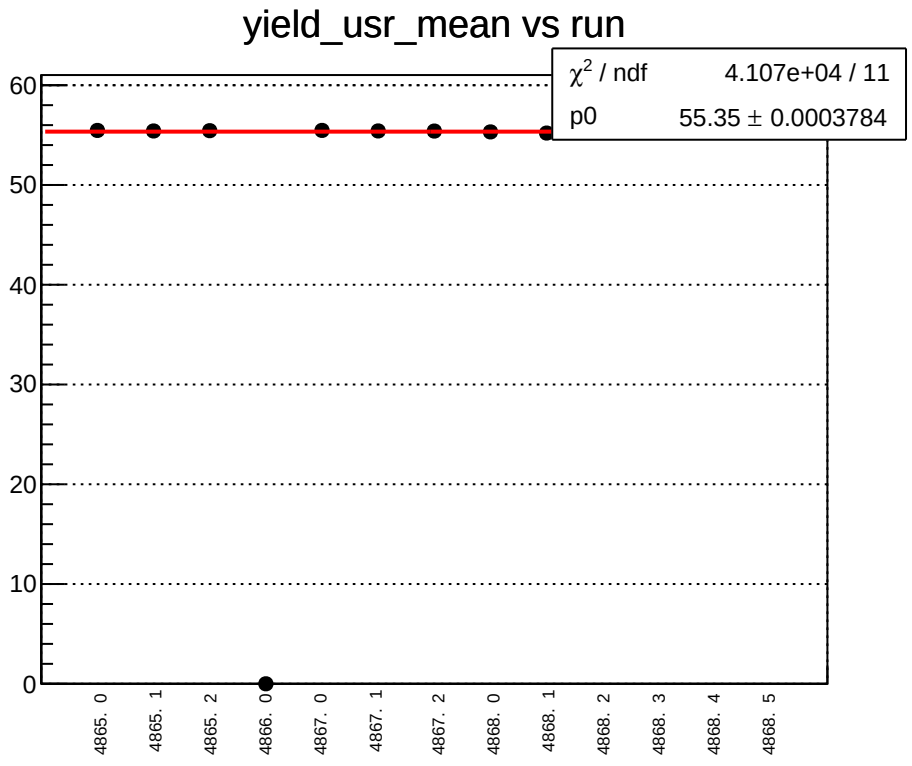
4868. 4
4868. 5


pull1D
Entries 13
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_usl_rms vs run
χ² / ndf 1.797e+04 / 11
p0 0.1589 ± 0.0003372
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


yield_usr_mean vs run
χ² / ndf 4.107e+04 / 11
p0 55.35 ± 0.0003784
60
50
40
30
20
10
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
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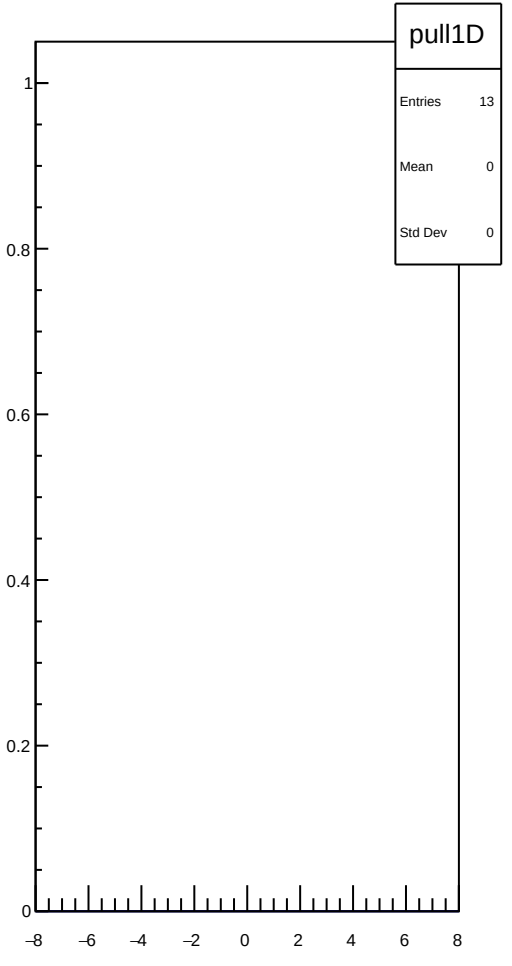
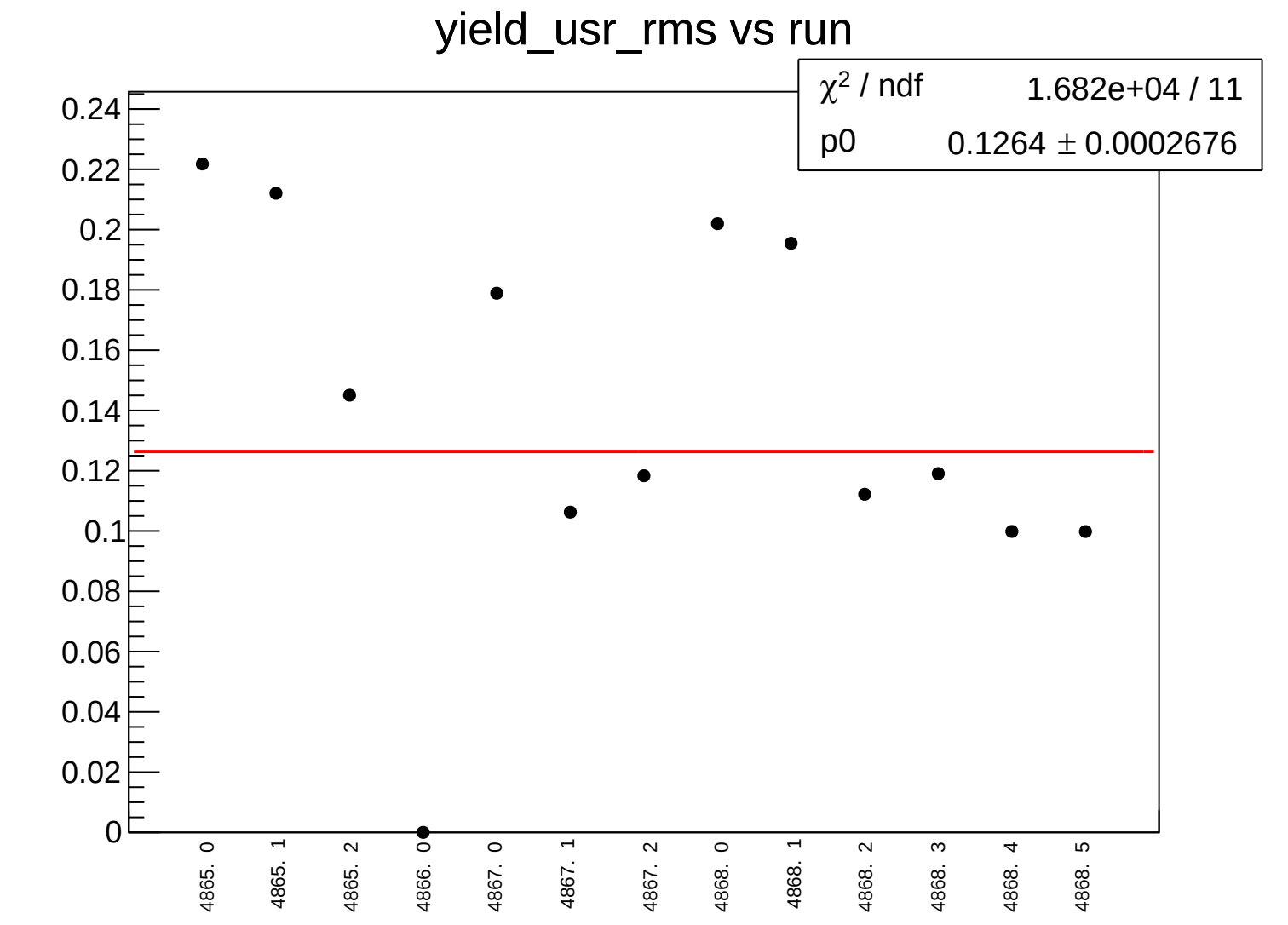
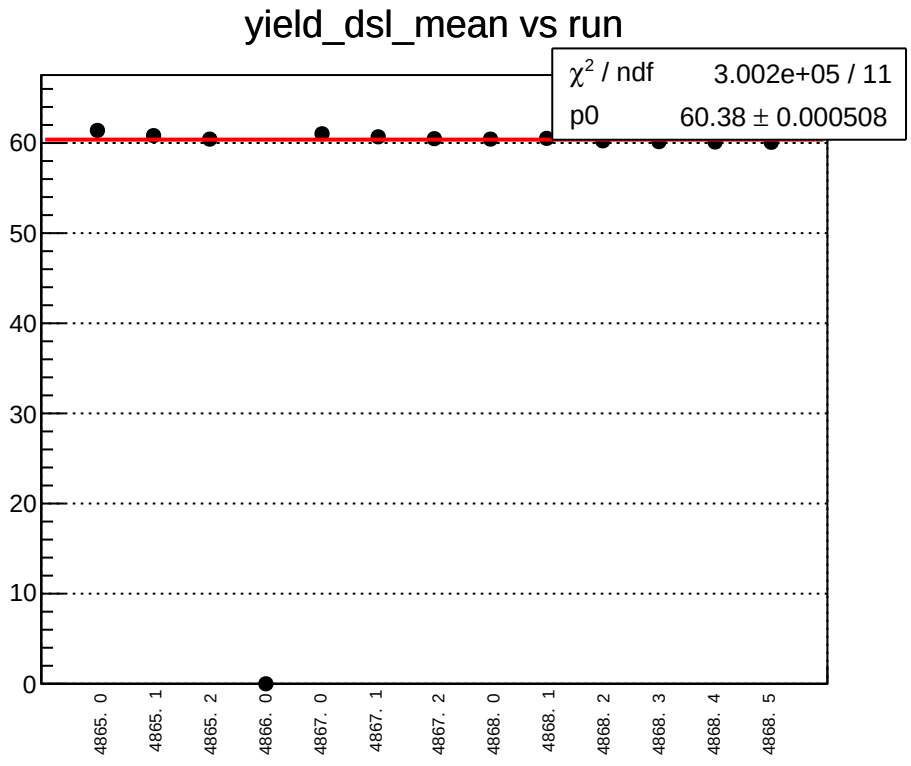
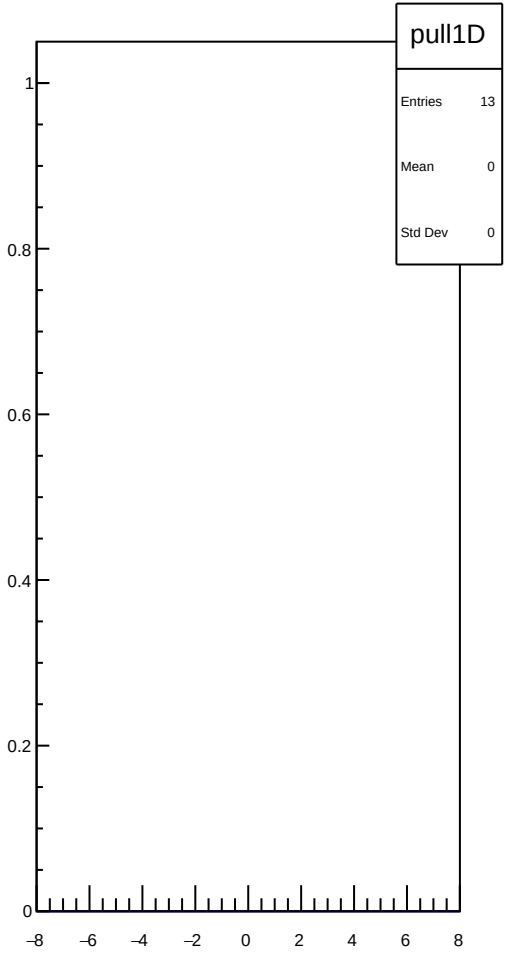

pull1D
Entries 13
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_usr_rms vs run
χ² / ndf 1.682e+04 / 11
p0 0.1264 ± 0.0002676
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


yield_dsl_mean vs run
χ² / ndf 3.002e+05 / 11
p0 60.38 ± 0.000508
60
50
40
30
20
10
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
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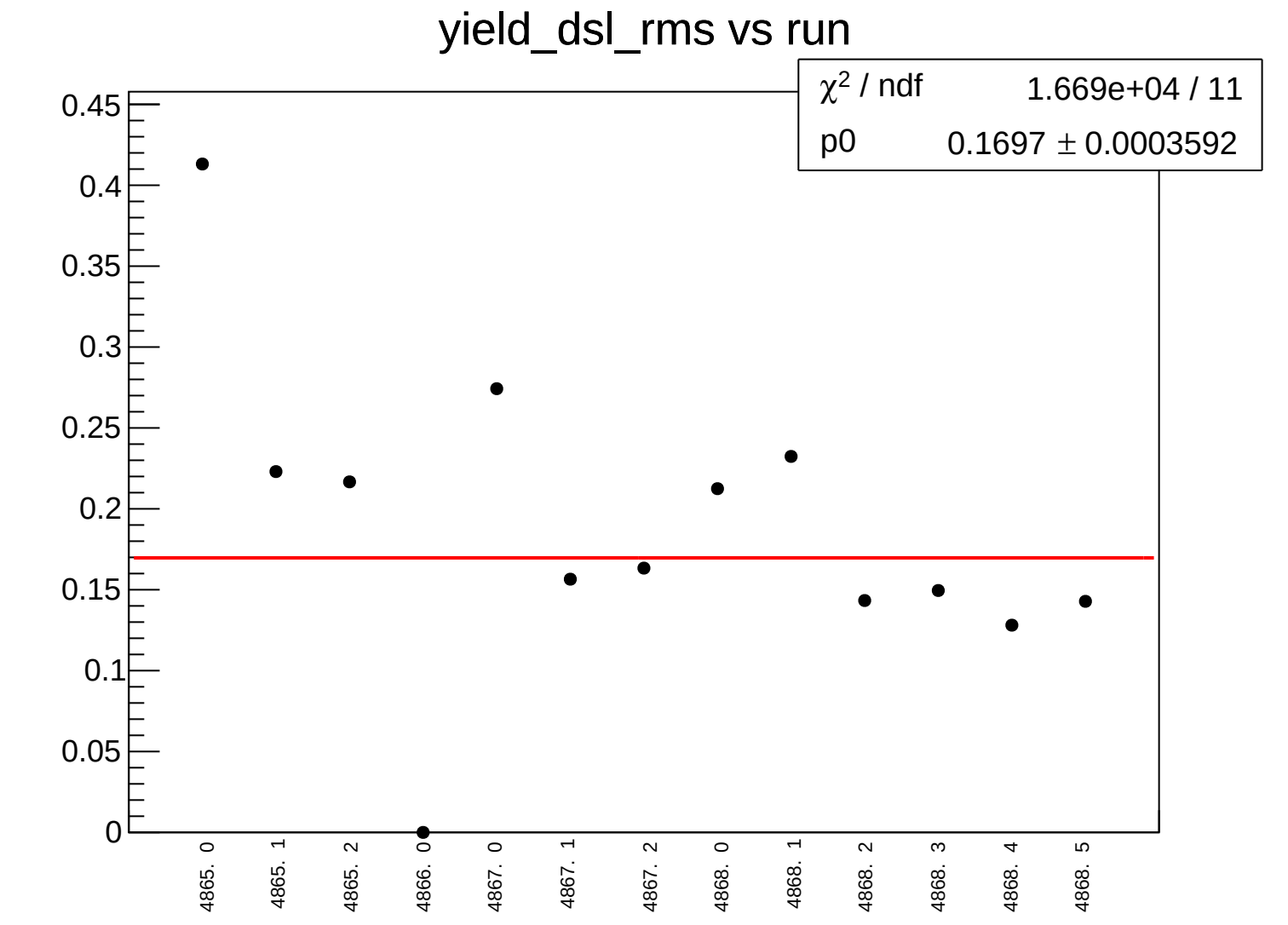
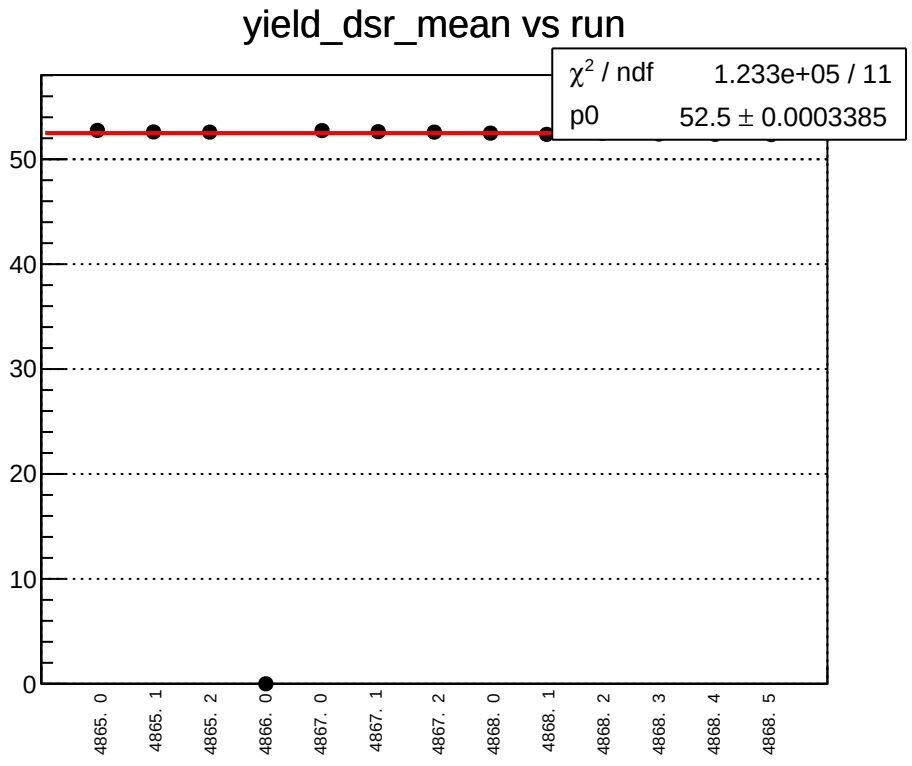
2
4
6
8


yield_dsl_rms vs run
χ² / ndf 1.669e+04 / 11
p0 0.1697 ± 0.0003592
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


yield_dsr_mean vs run
χ² / ndf 1.233e+05 / 11
p0 52.5 ± 0.0003385
50
40
30
20
10
0
4865. 0
4865. 1
4865. 2
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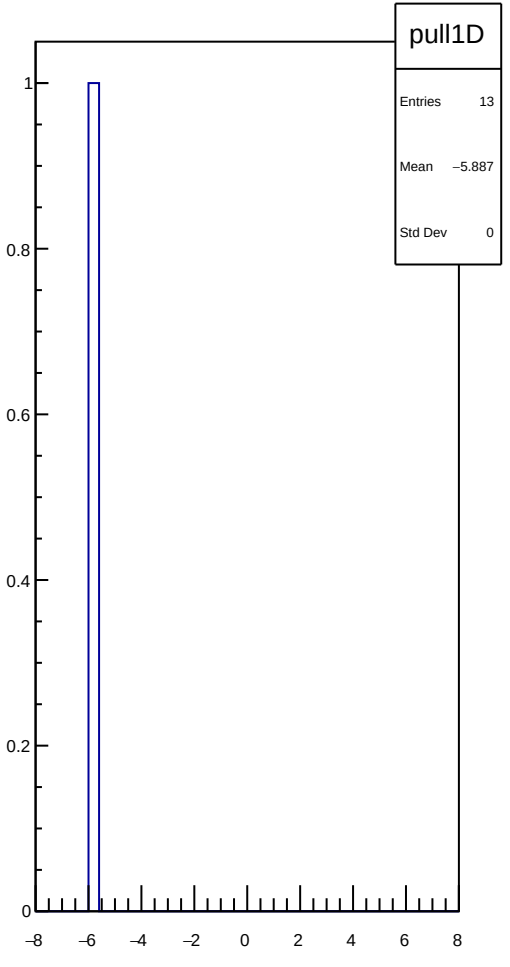
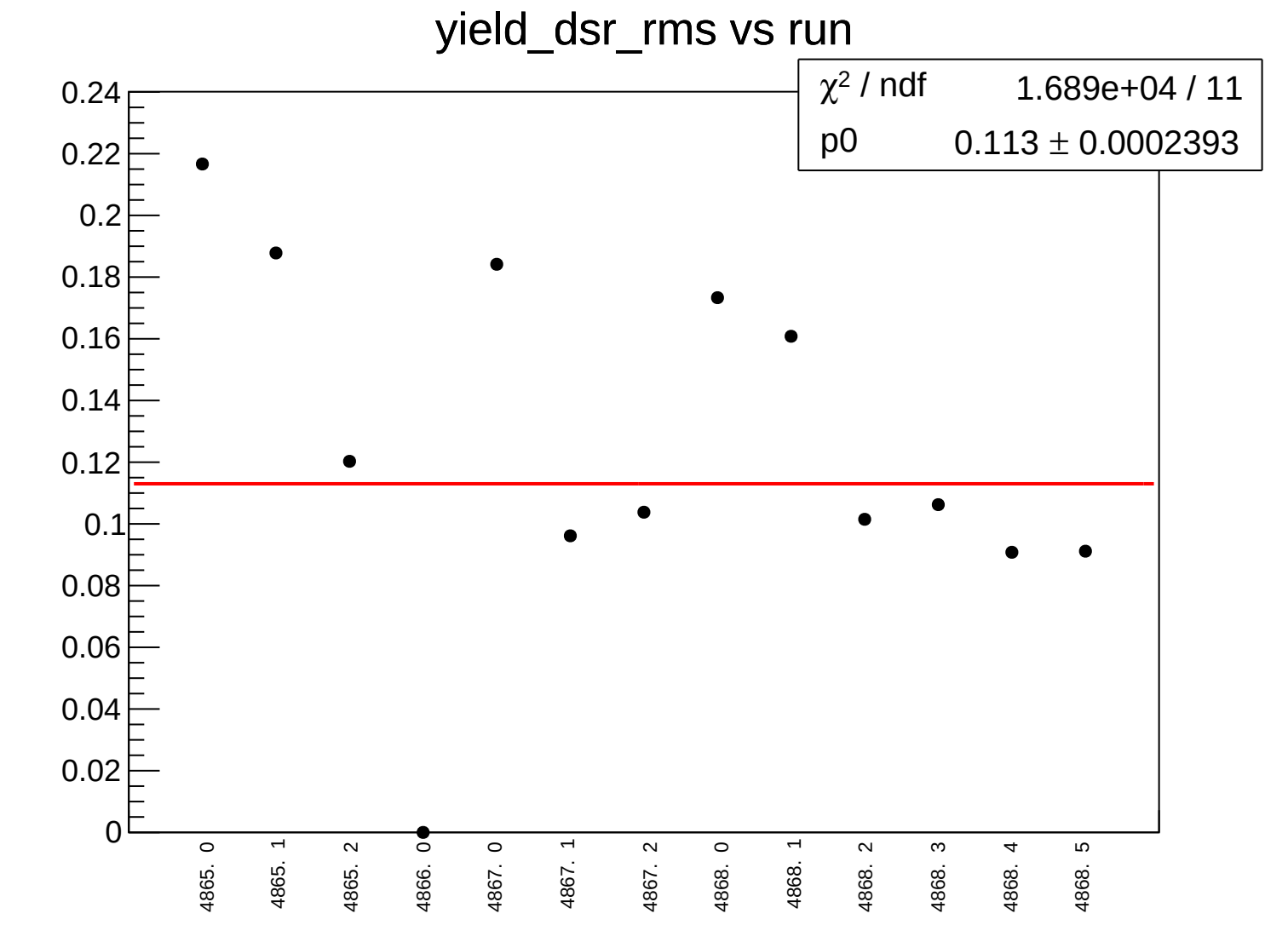
4868. 4
4868. 5


pull1D
Entries 13
Mean −5.887
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_dsr_rms vs run
χ² / ndf 1.689e+04 / 11
p0 0.113 ± 0.0002393
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
4865. 0
4865. 1
4865. 2
4866. 0
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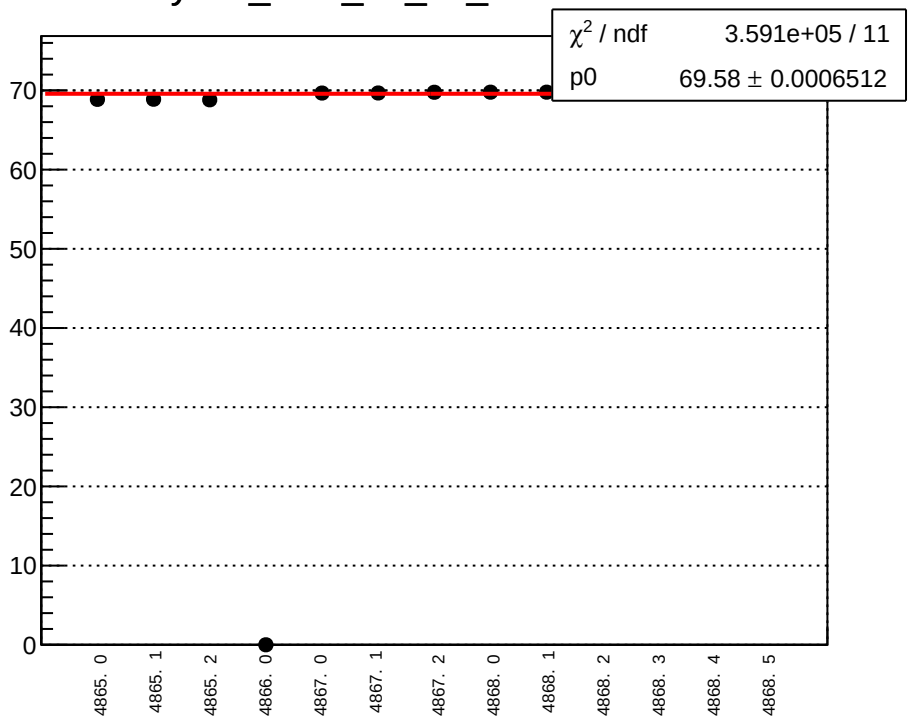
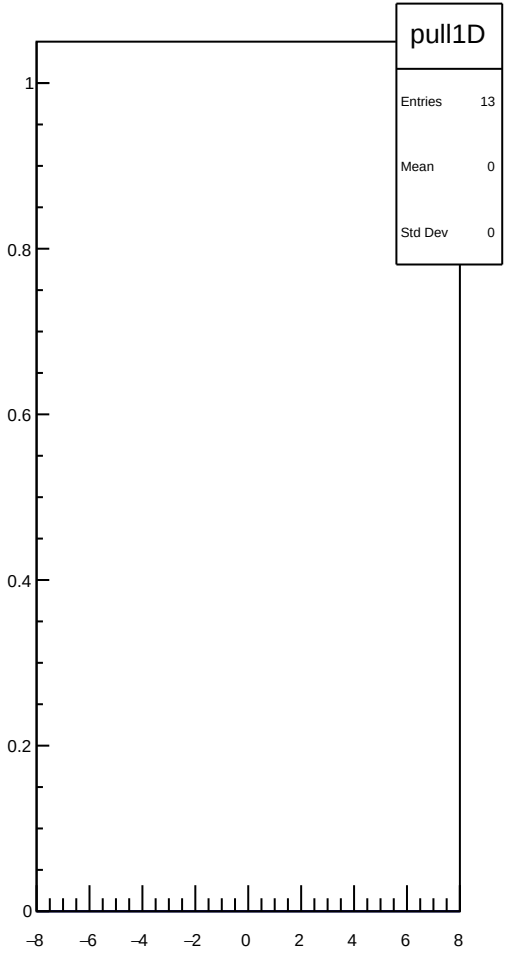
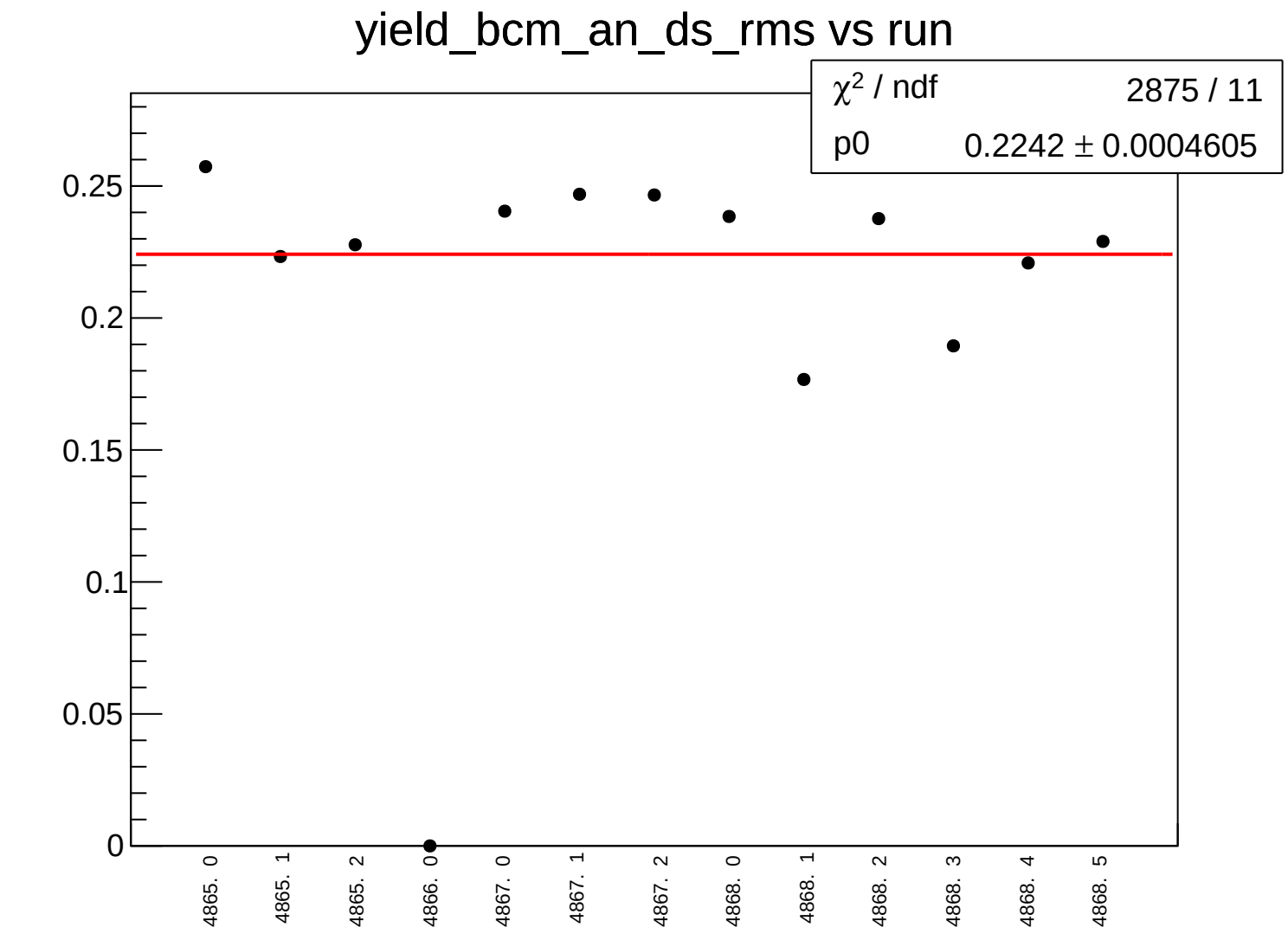
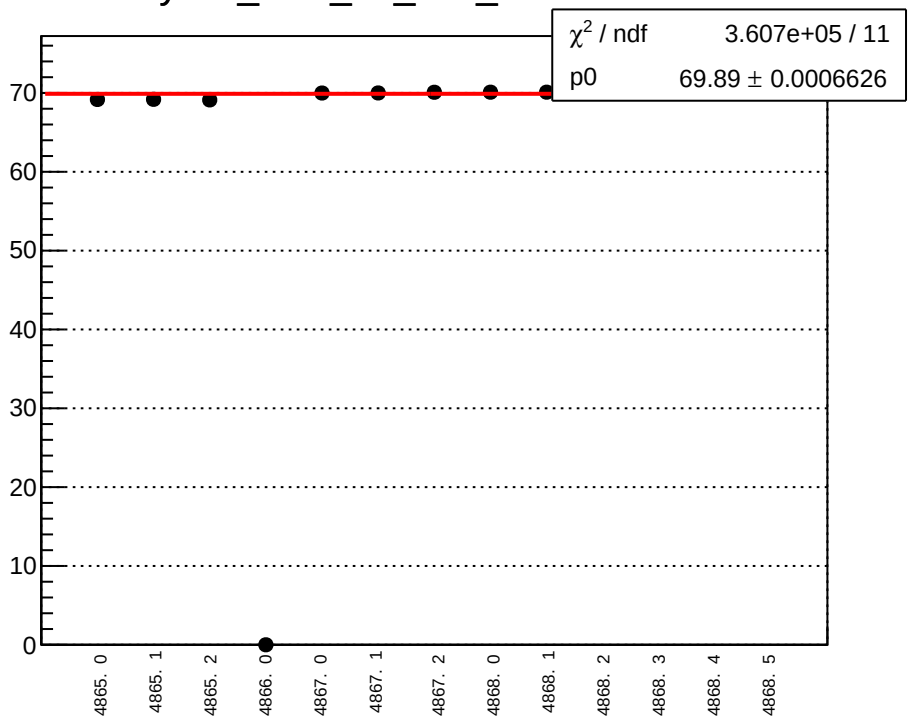
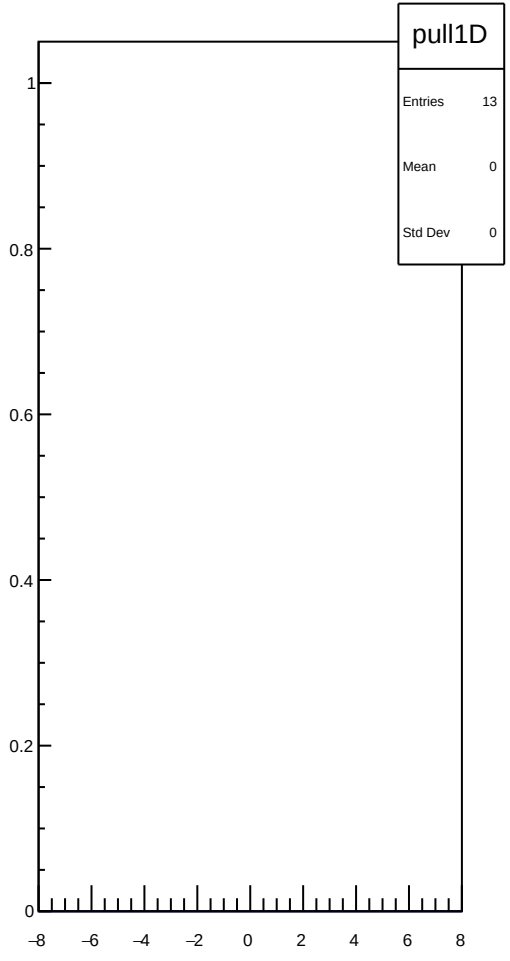
4868. 4
4868. 5

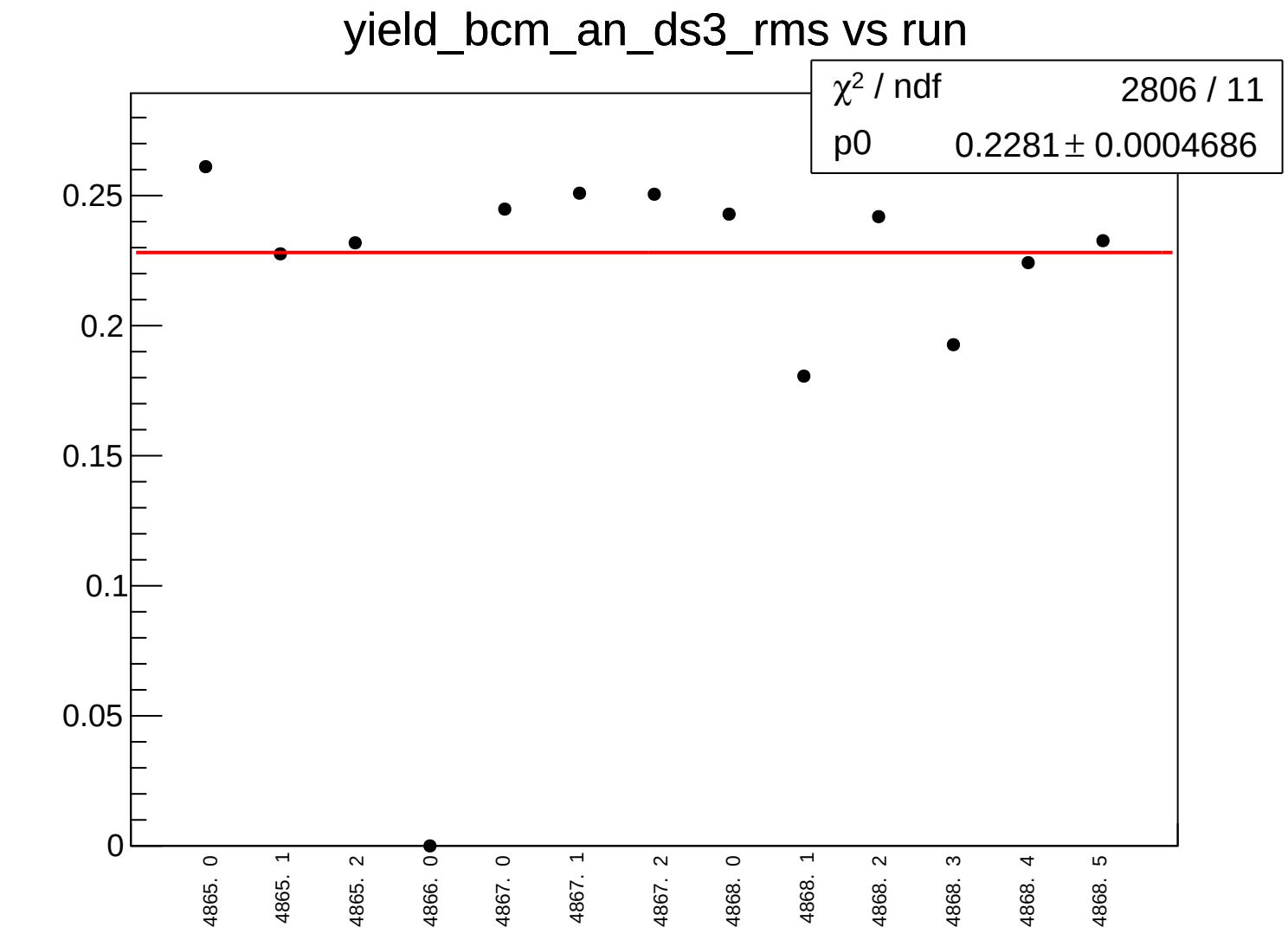

yield_bcm_an_ds_mean vs run
χ² / ndf 3.591e+05 / 11
p0 69.58 ± 0.0006512
70
60
50
40
30
20
10
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

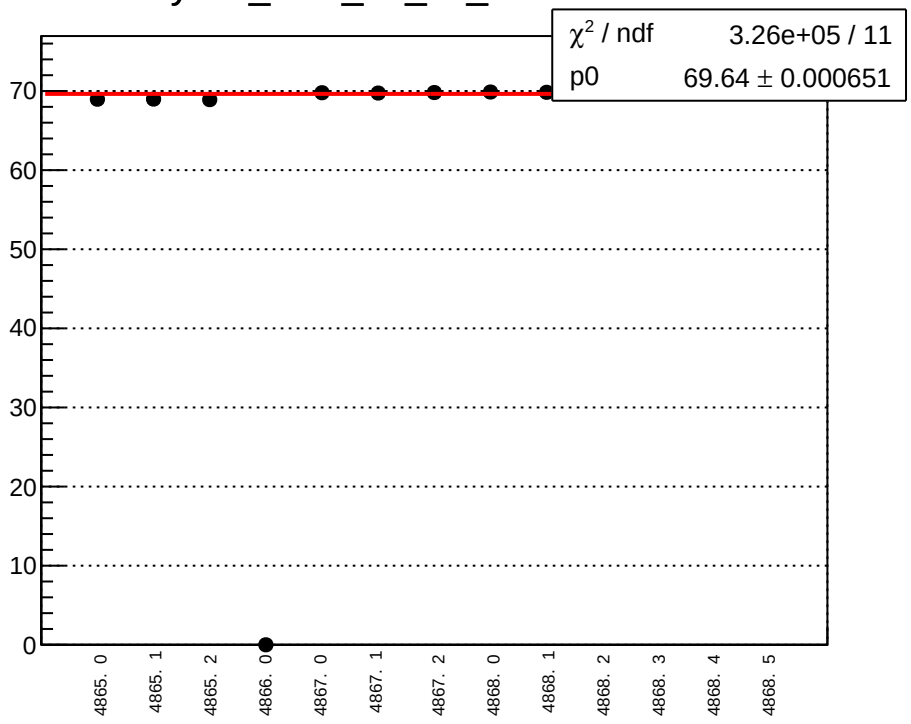

pull1D
Entries 13
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

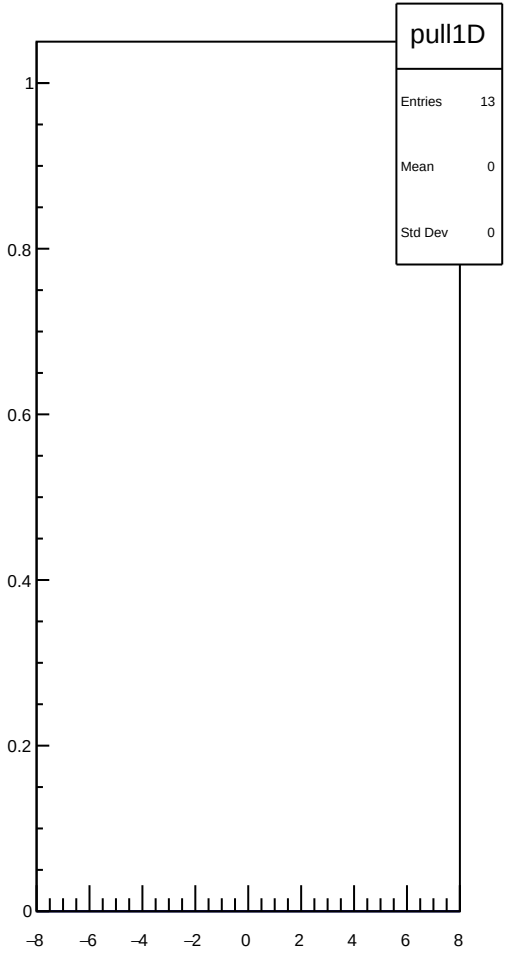

yield_bcm_an_ds_rms vs run
χ² / ndf 2875 / 11
p0 0.2242 ± 0.0004605
0.25
0.2
0.15
0.1
0.05
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

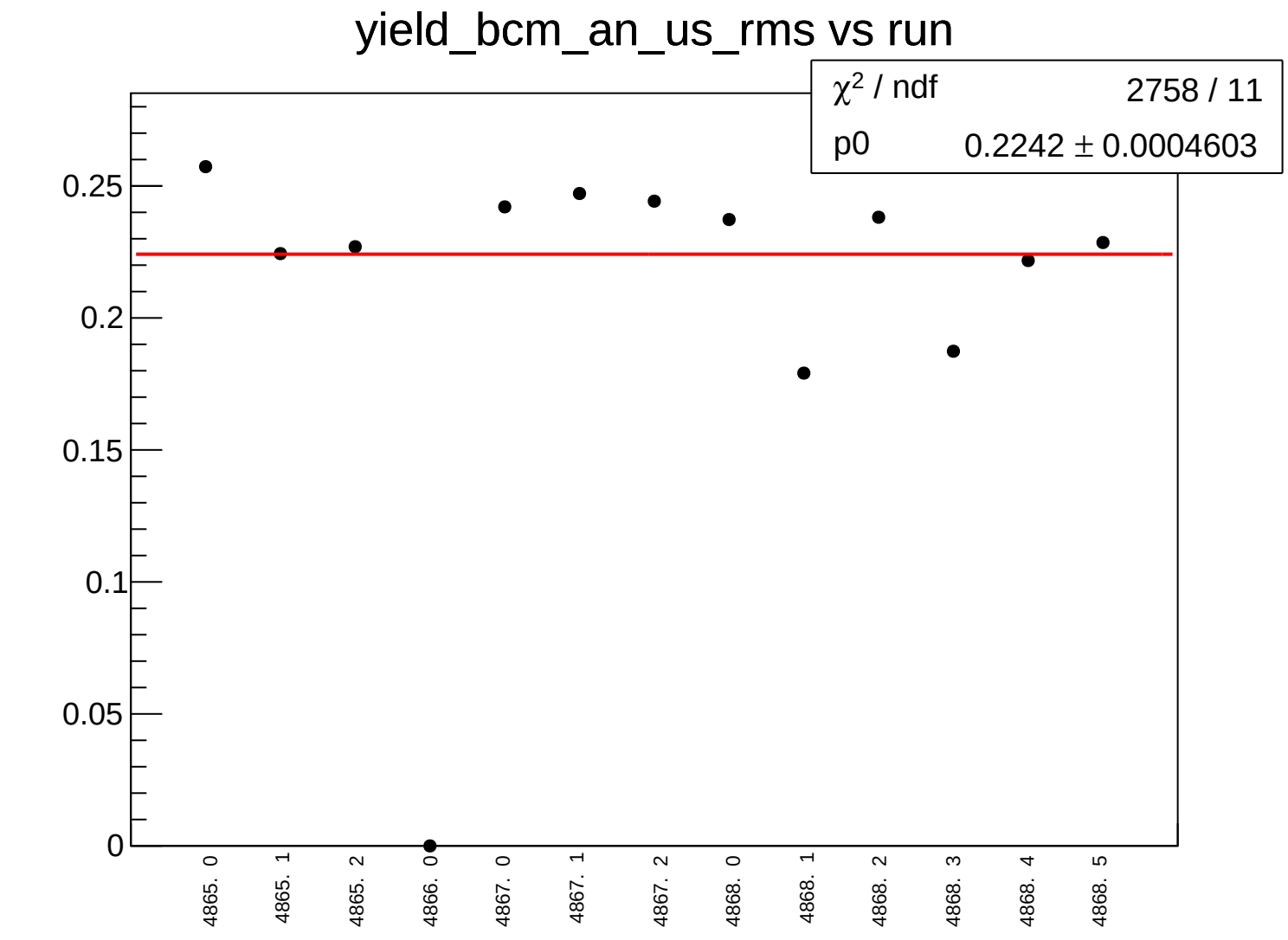

yield_bcm_an_ds3_mean vs run
χ² / ndf 3.607e+05 / 11
p0 69.89 ± 0.0006626
70
60
50
40
30
20
10
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

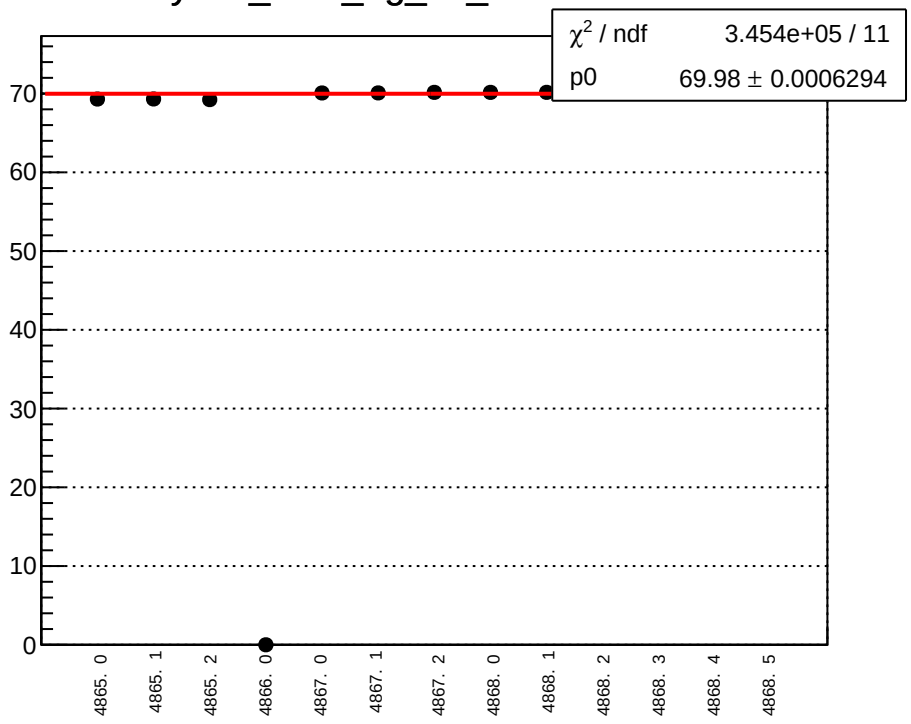

pull1D
Entries 13
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

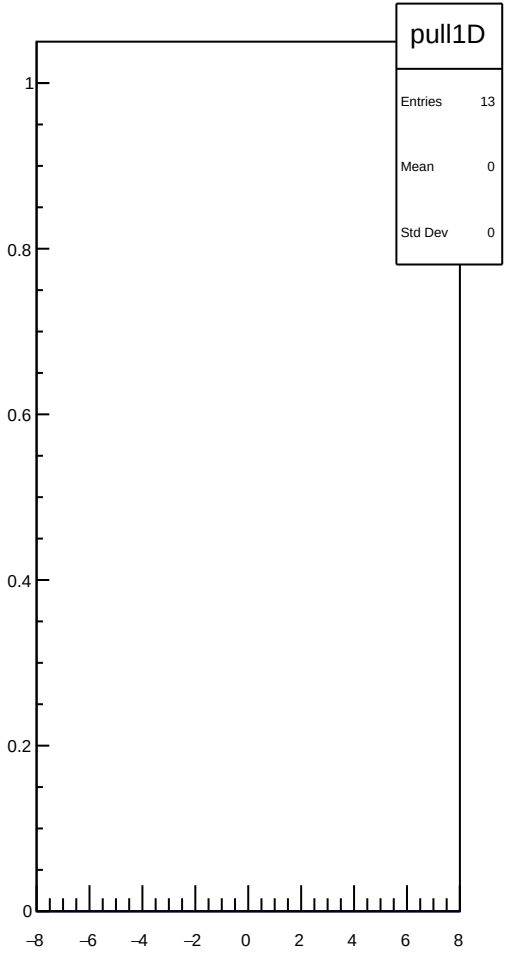

yield_bcm_an_ds3_rms vs run
χ² / ndf 2806 / 11
p0 0.2281 ± 0.0004686
0.25
0.2
0.15
0.1
0.05
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


yield_bcm_an_us_mean vs run
χ² / ndf 3.26e+05 / 11
p0 69.64 ± 0.000651
70
60
50
40
30
20
10
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
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_bcm_an_us_rms vs run
χ² / ndf 2758 / 11
p0 0.2242 ± 0.0004603
0.25
0.2
0.15
0.1
0.05
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


yield_bcm_dg_us_mean vs run
χ² / ndf 3.454e+05 / 11
p0 69.98 ± 0.0006294
70
60
50
40
30
20
10
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
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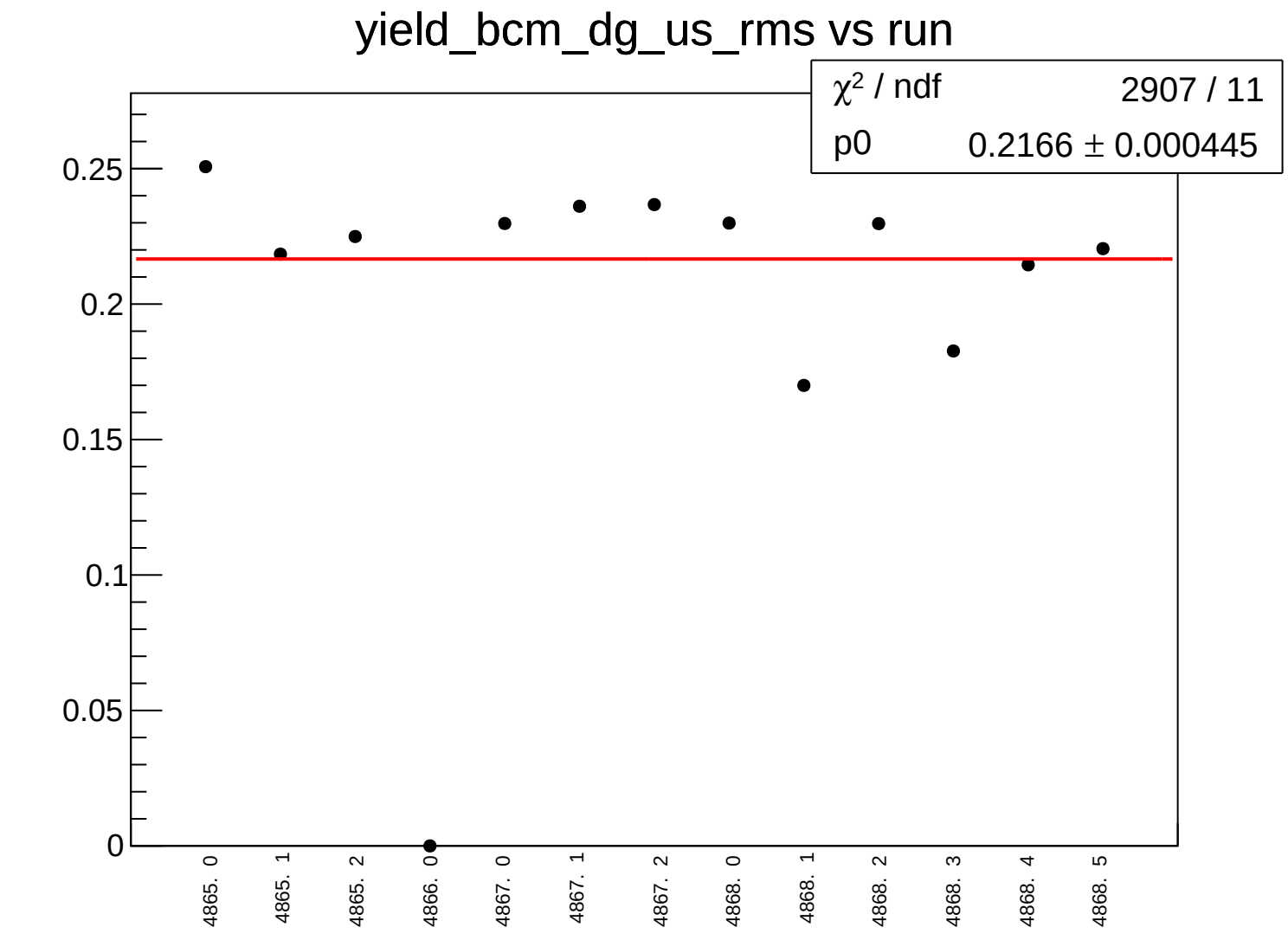
2
4
6
8


yield_bcm_dg_us_rms vs run
χ² / ndf 2907 / 11
p0 0.2166 ± 0.000445
0.25
0.2
0.15
0.1
0.05
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
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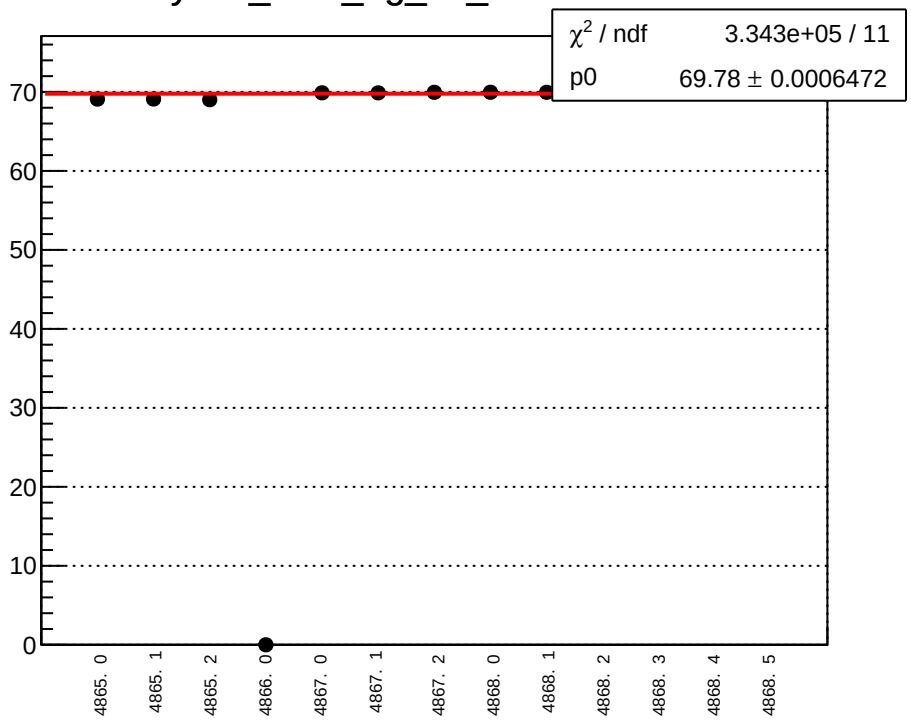
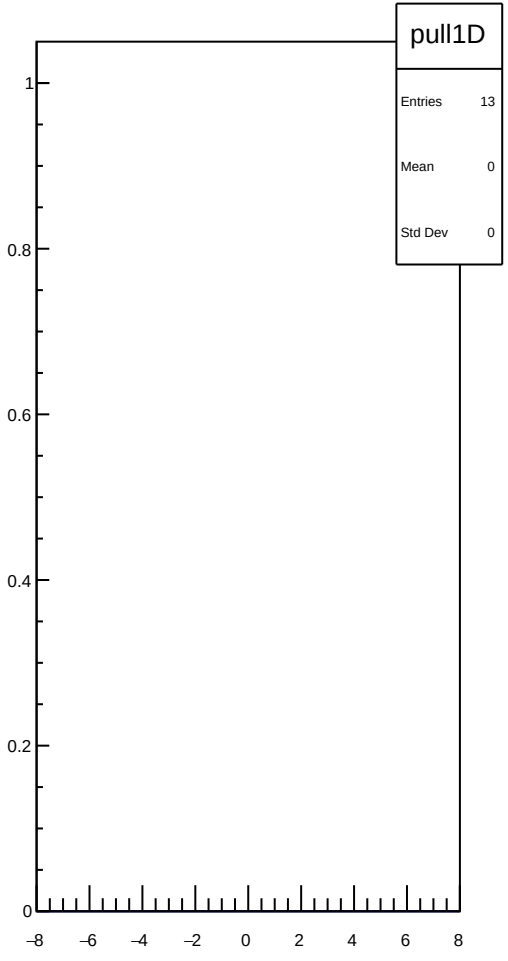
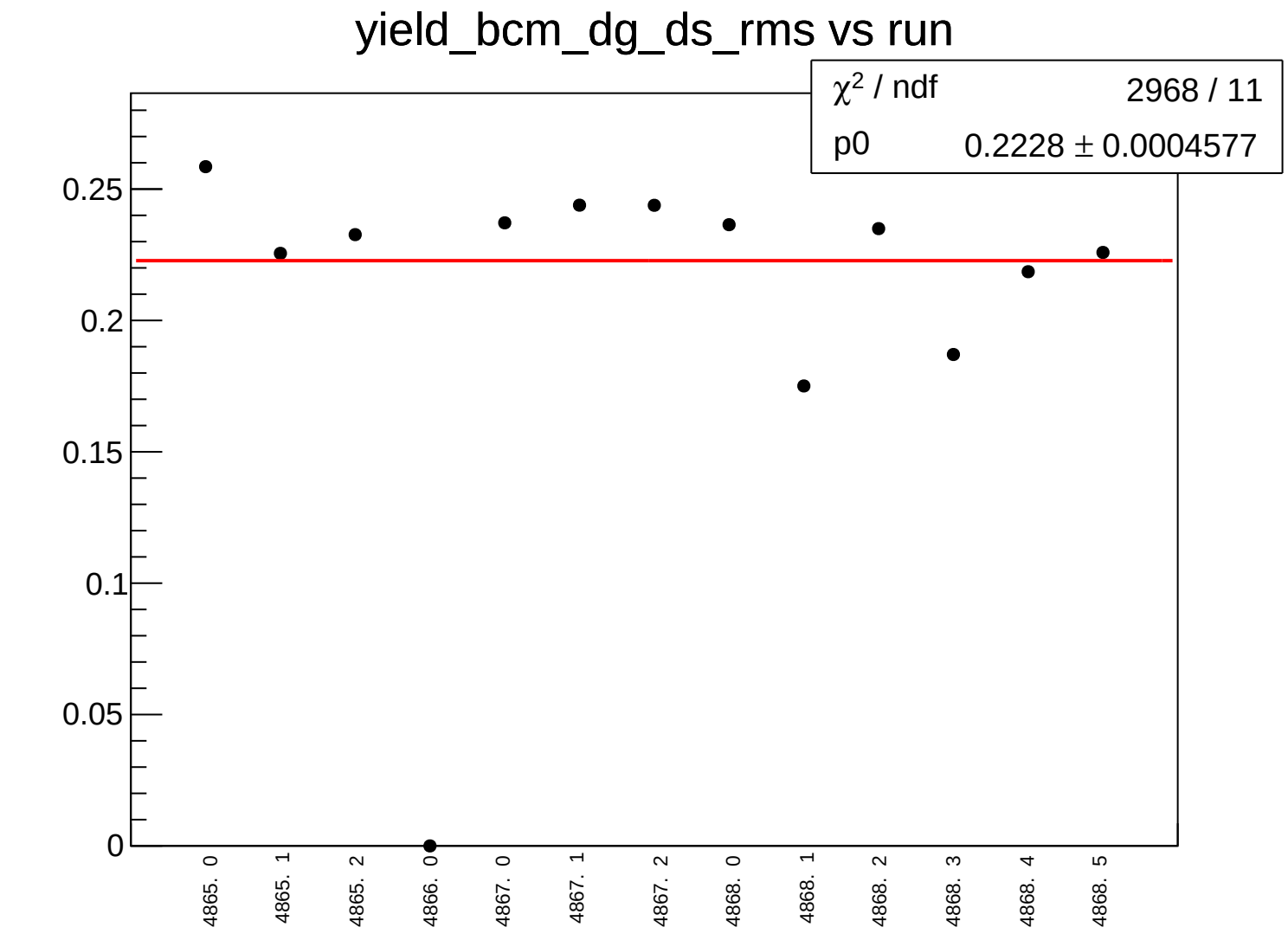
4868. 4
4868. 5


yield_bcm_dg_ds_mean vs run
χ² / ndf 3.343e+05 / 11
p0 69.78 ± 0.0006472
70
60
50
40
30
20
10
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
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_bcm_dg_ds_rms vs run
χ² / ndf 2968 / 11
p0 0.2228 ± 0.0004577
0.25
0.2
0.15
0.1
0.05
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
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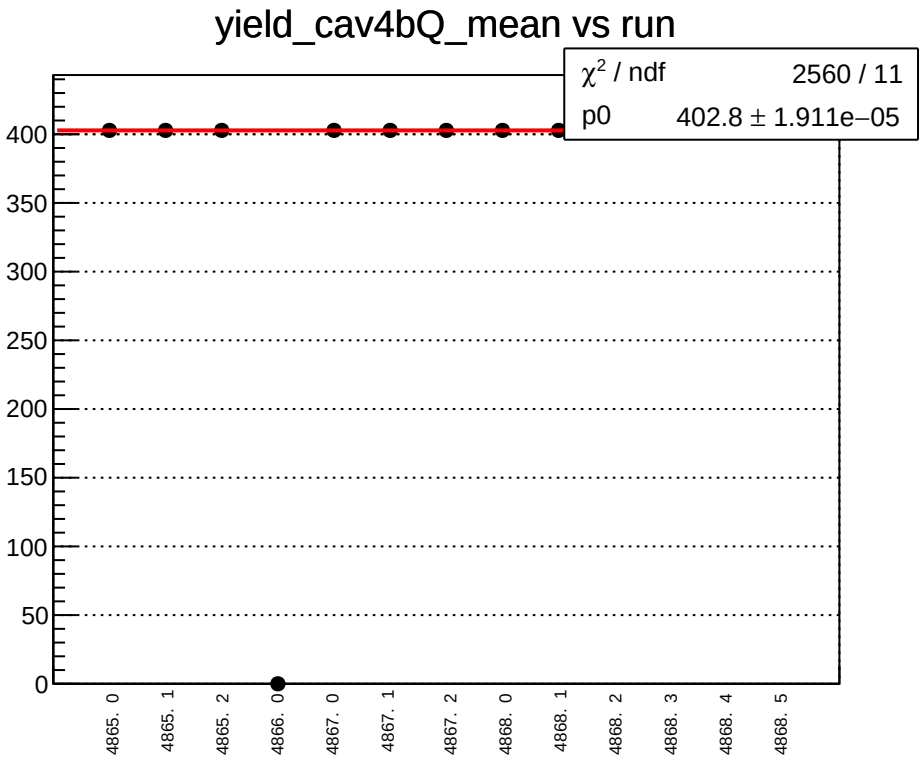
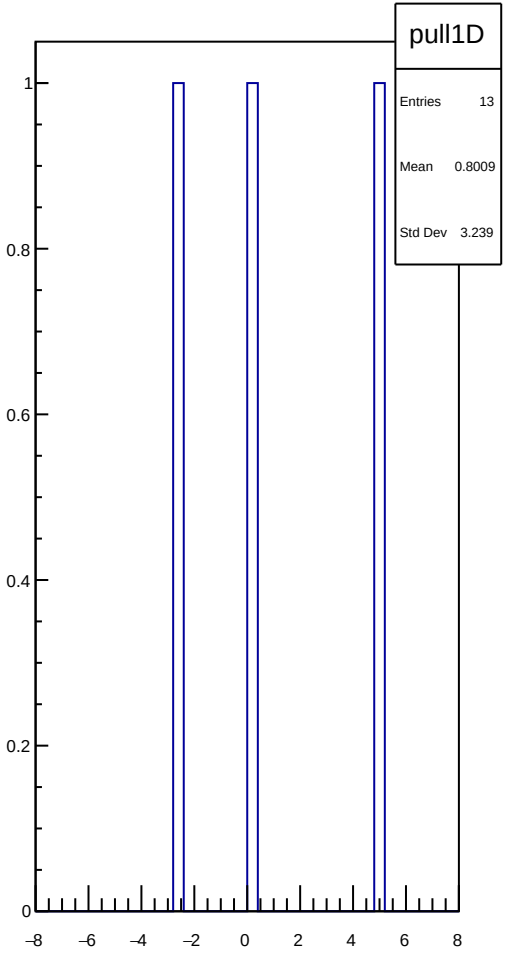
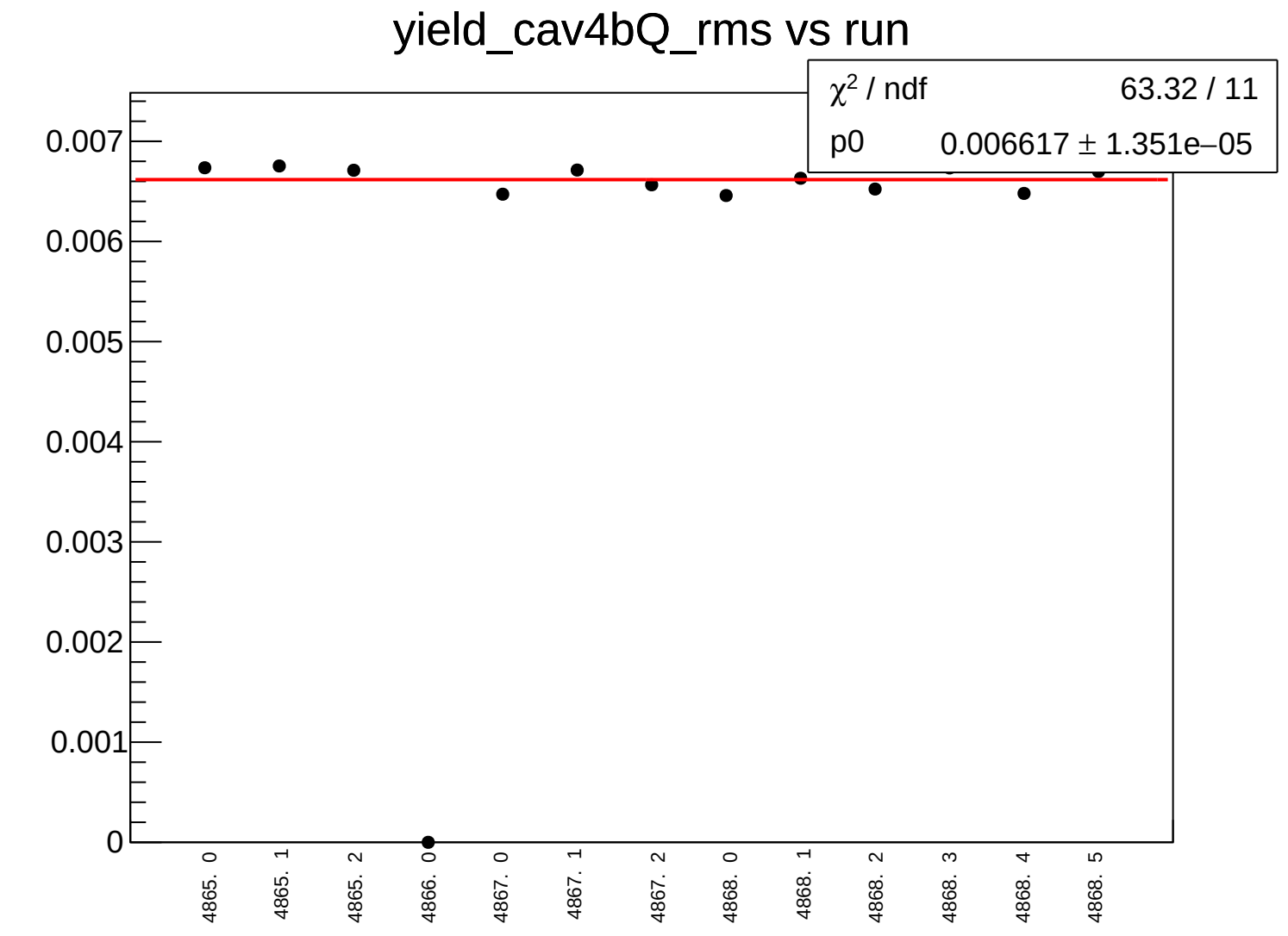
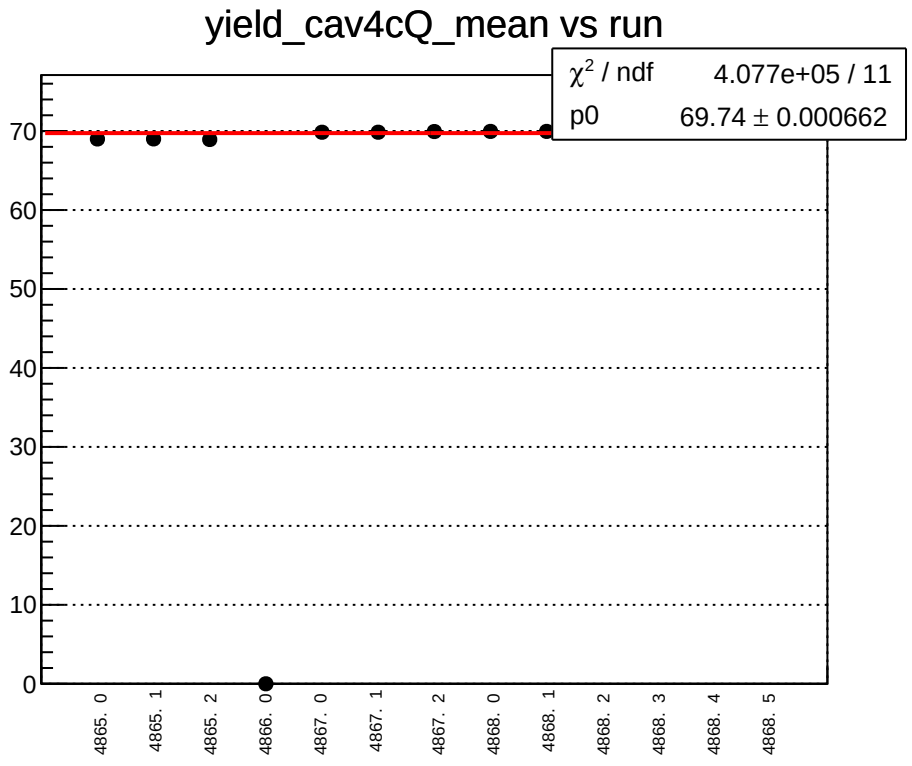
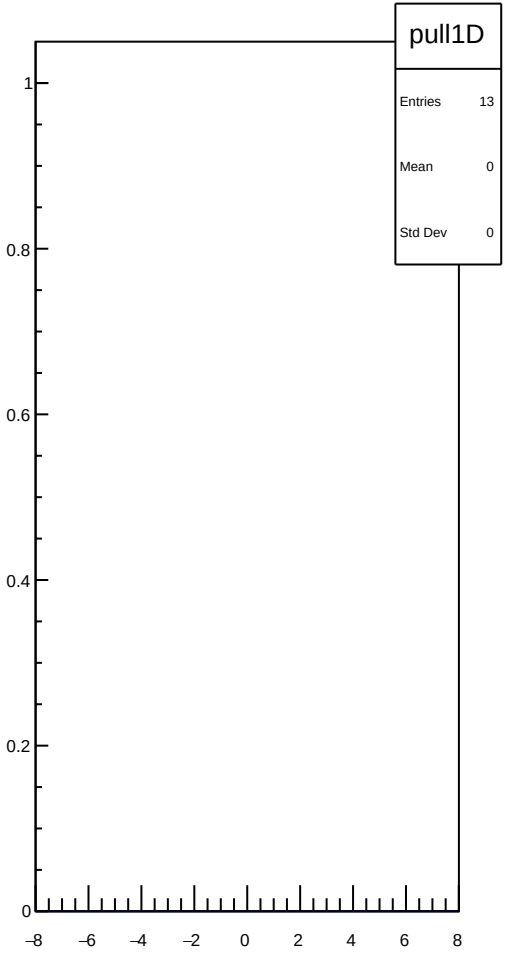
4868. 4
4868. 5

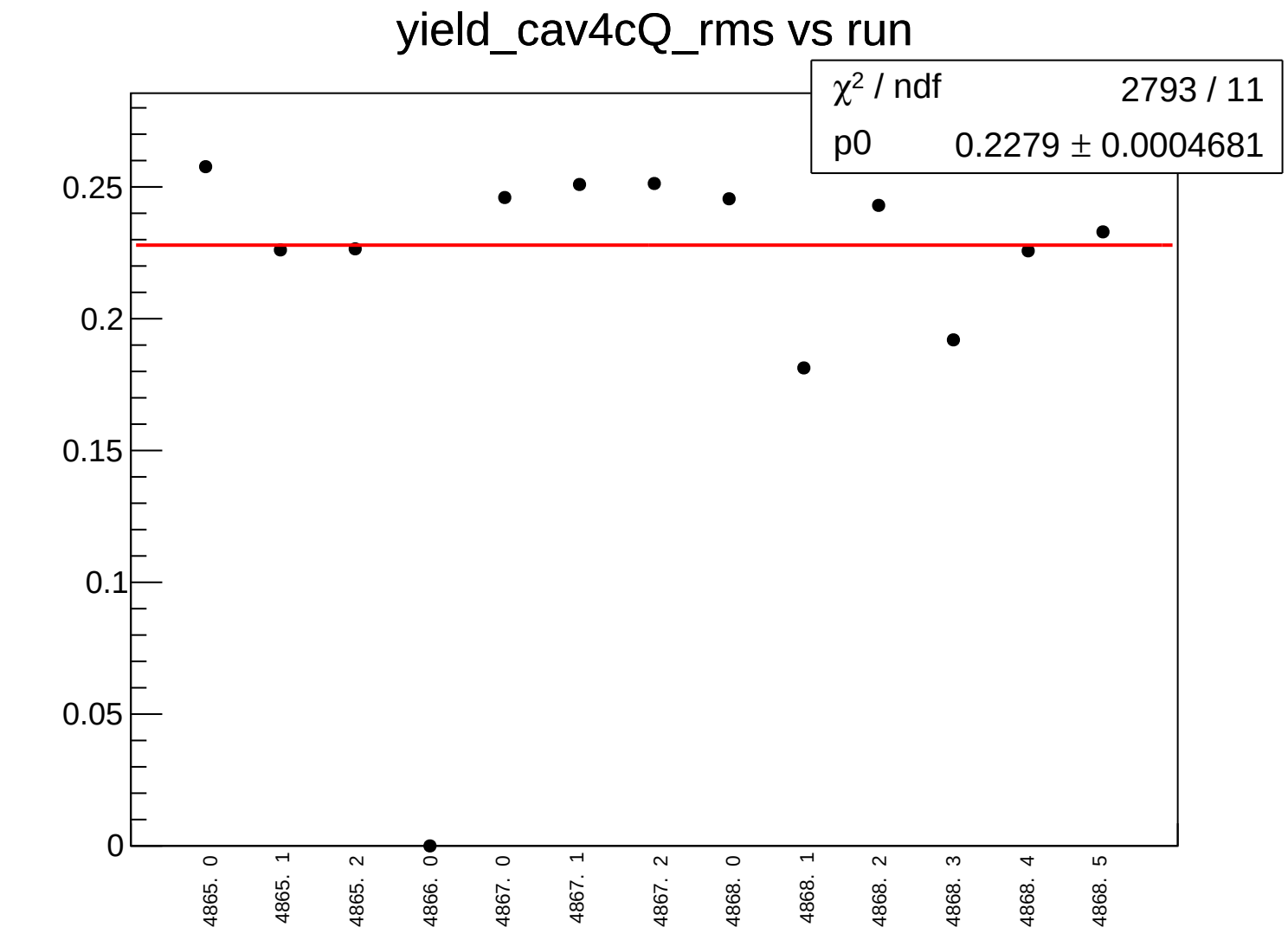

yield_cav4bQ_mean vs run
χ² / ndf 2560 / 11
p0 402.8 ± 1.911e−05
400
350
300
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

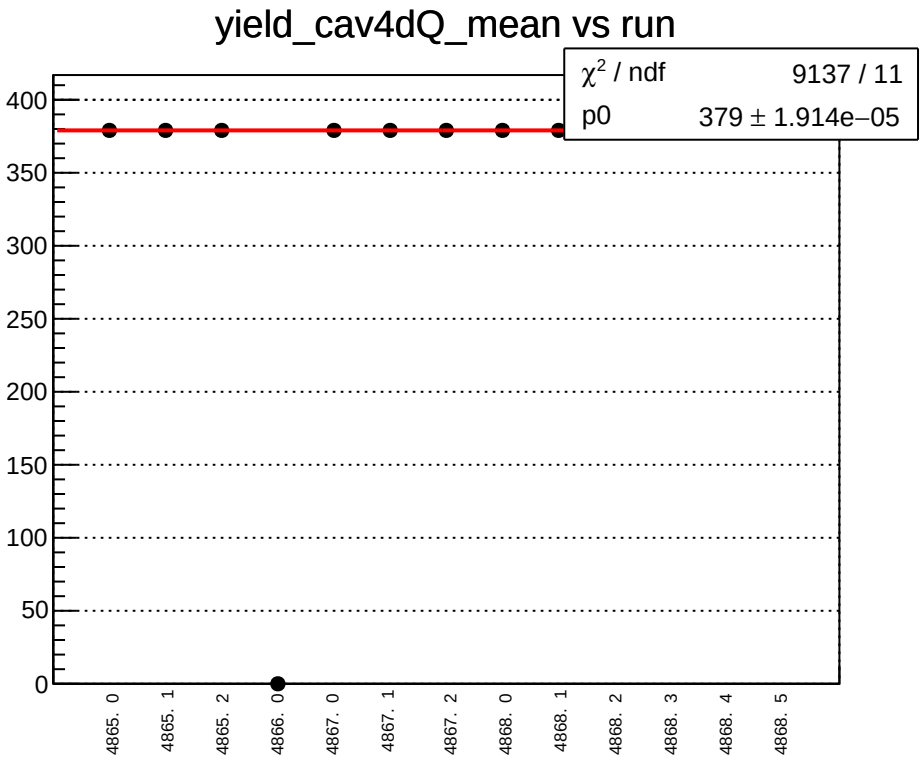

pull1D
Entries 13
Mean 0.8009
Std Dev 3.239
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

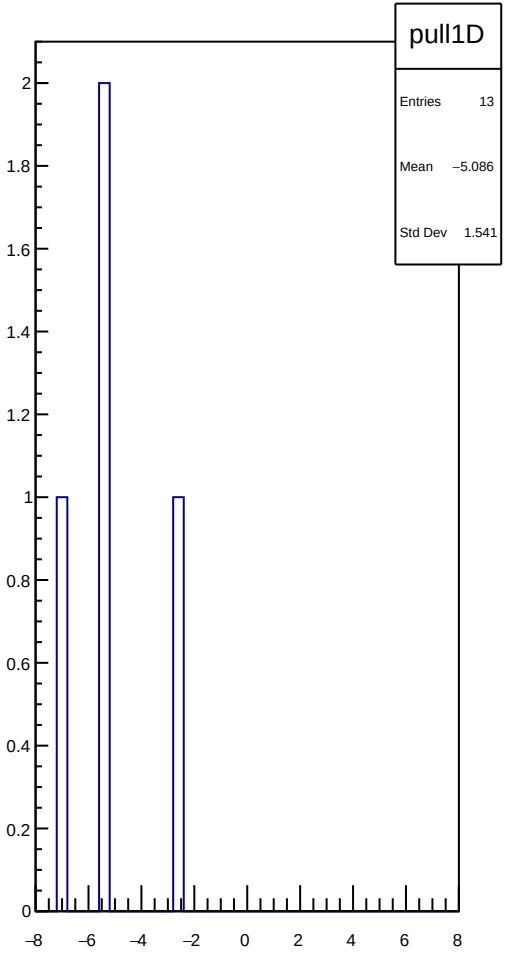

yield_cav4bQ_rms vs run
χ² / ndf 63.32 / 11
p0 0.006617 ± 1.351e−05
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

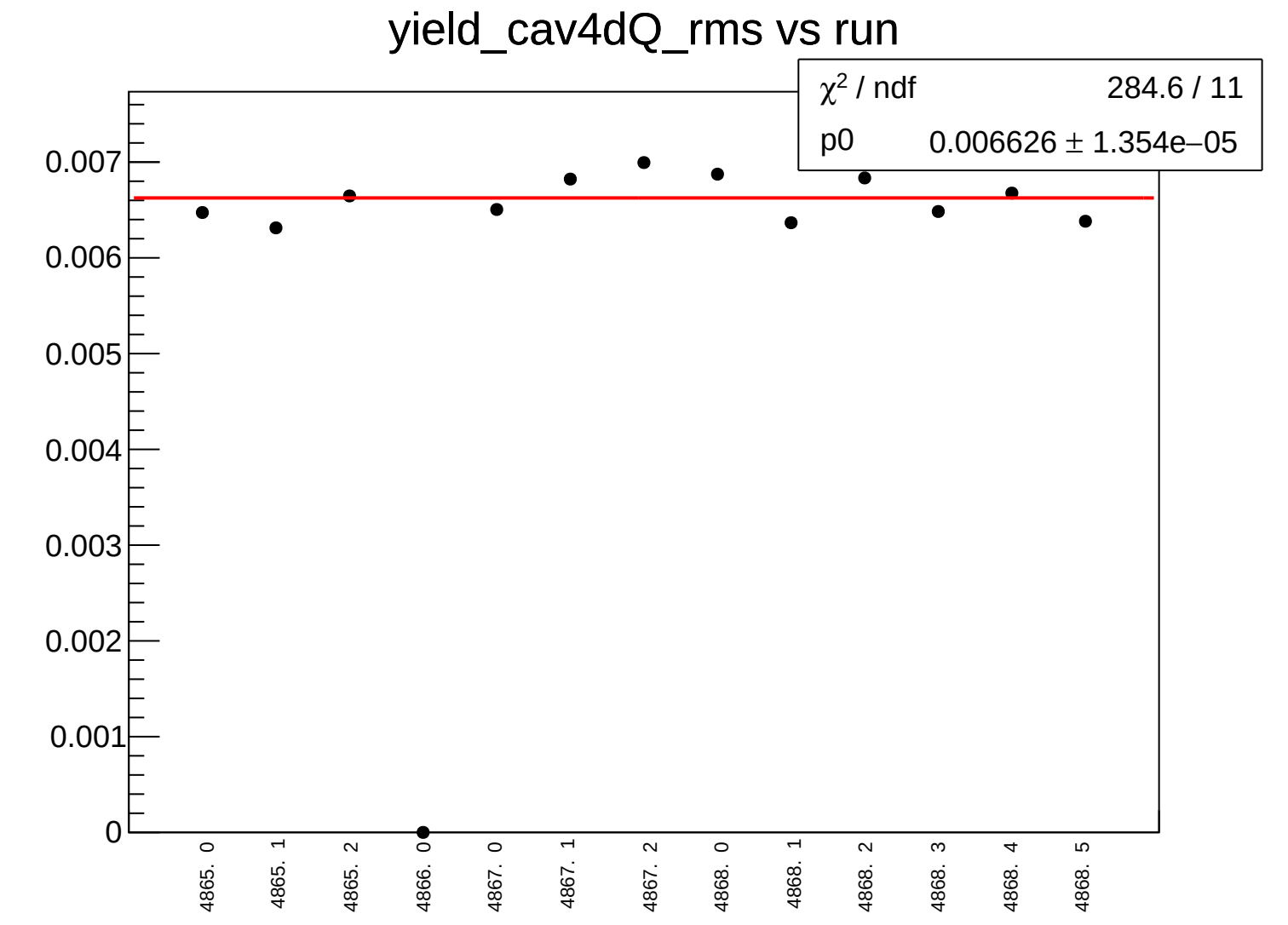

yield_cav4cQ_mean vs run
χ² / ndf 4.077e+05 / 11
p0 69.74 ± 0.000662
70
60
50
40
30
20
10
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

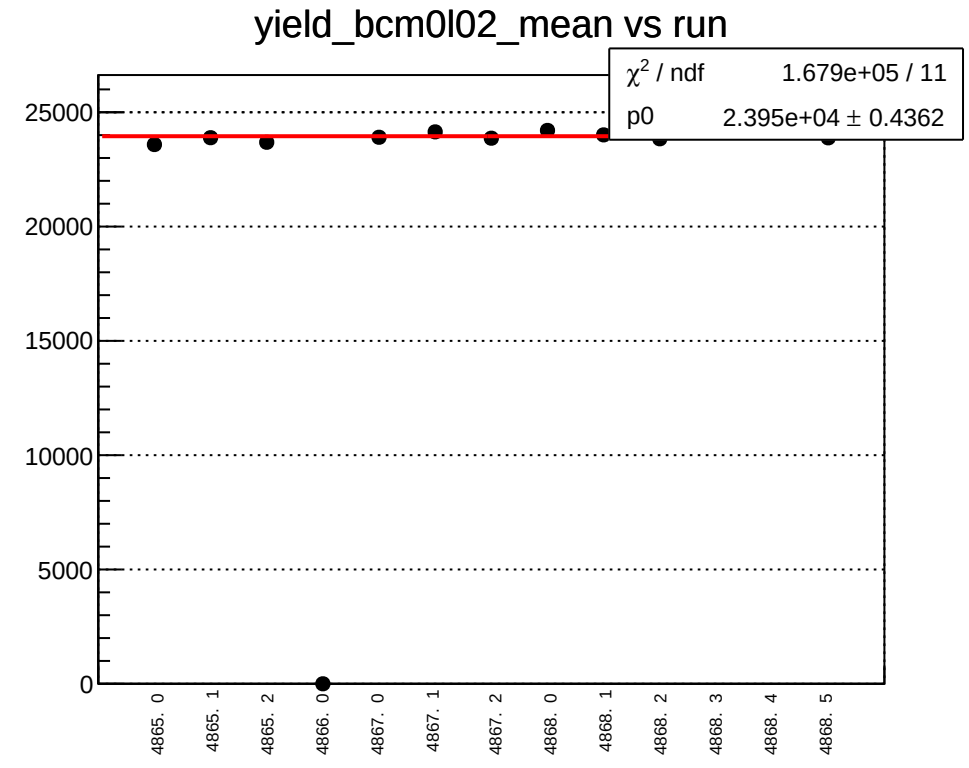

pull1D
Entries 13
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

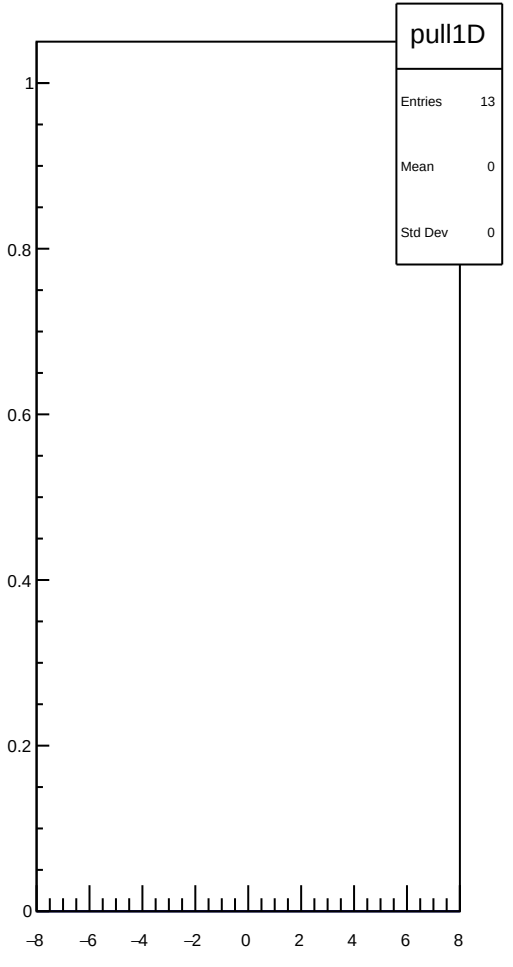

yield_cav4cQ_rms vs run
χ² / ndf 2793 / 11
p0 0.2279 ± 0.0004681
0.25
0.2
0.15
0.1
0.05
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

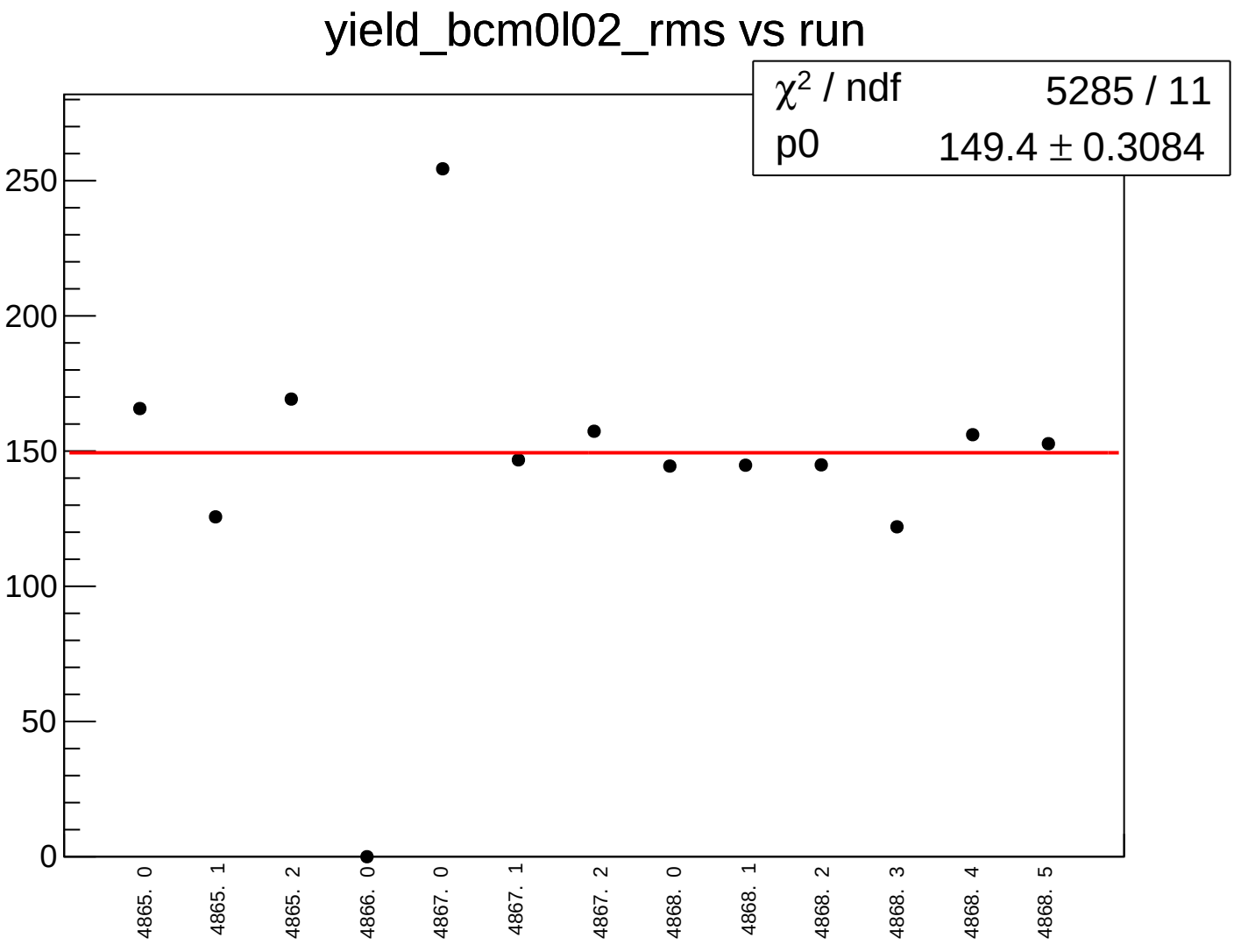

yield_cav4dQ_mean vs run
χ² / ndf 9137 / 11
p0 379 ± 1.914e−05
400
350
300
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

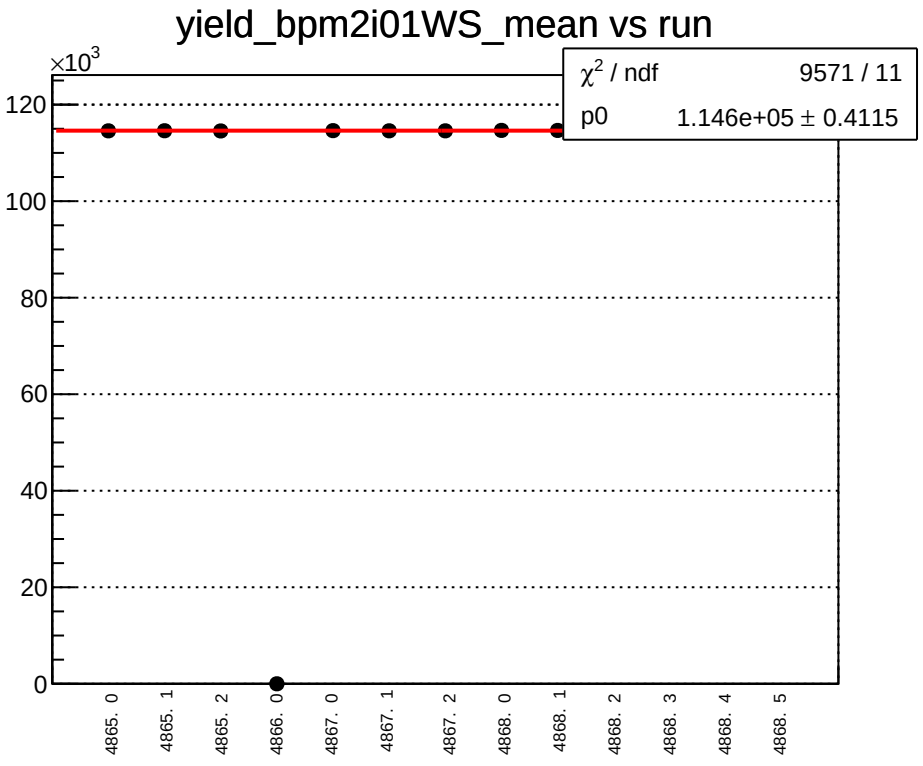

pull1D
Entries 13
Mean −5.086
Std Dev 1.541
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

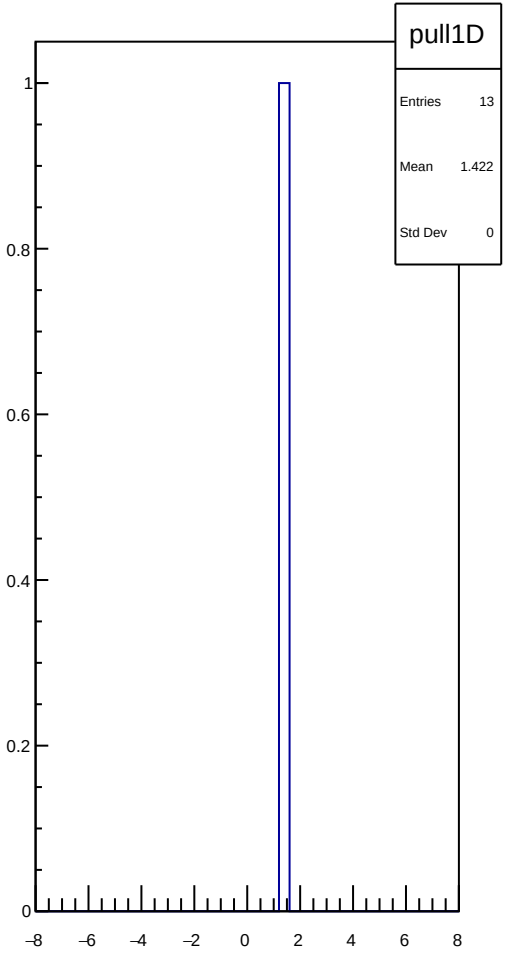

yield_cav4dQ_rms vs run
χ² / ndf 284.6 / 11
p0 0.006626 ± 1.354e−05
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

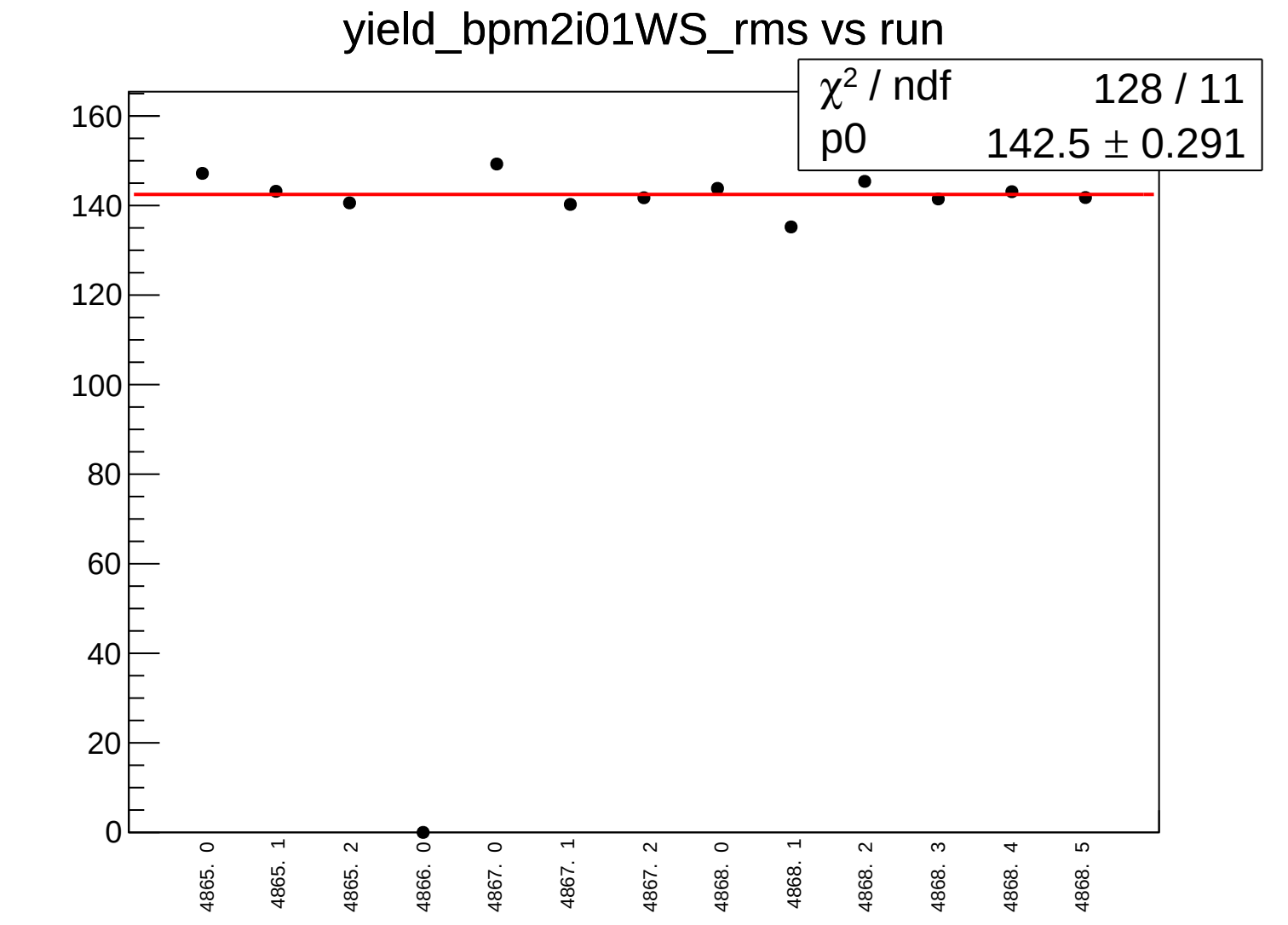

yield_bcm0l02_mean vs run
χ² / ndf 1.679e+05 / 11
p0 2.395e+04 ± 0.4362
25000
20000
15000
10000
5000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

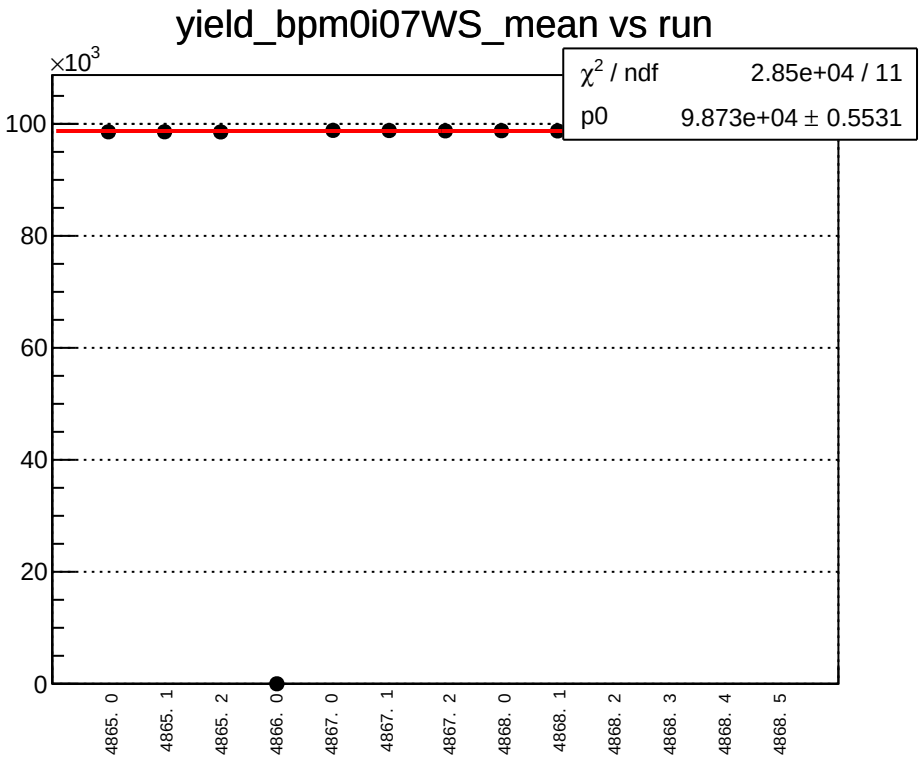

pull1D
Entries 13
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

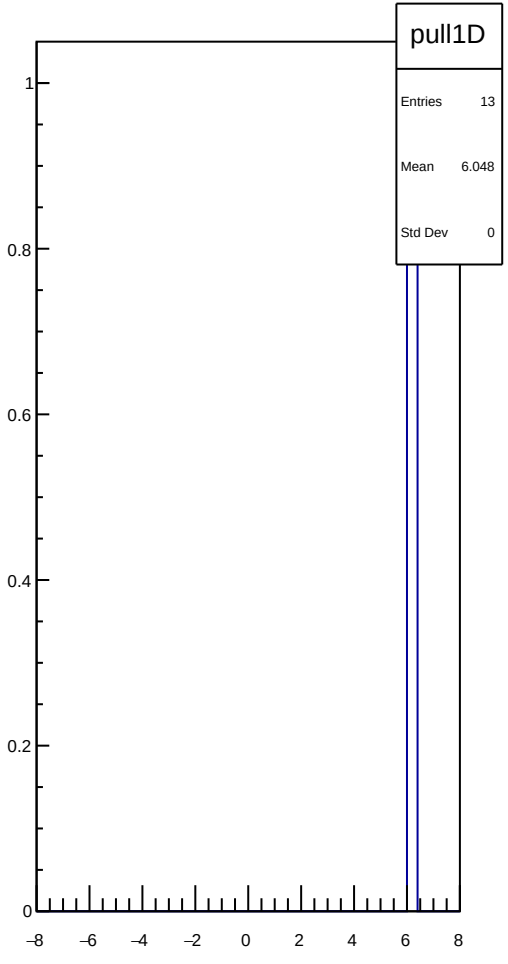

yield_bcm0l02_rms vs run
χ² / ndf 5285 / 11
p0 149.4 ± 0.3084
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

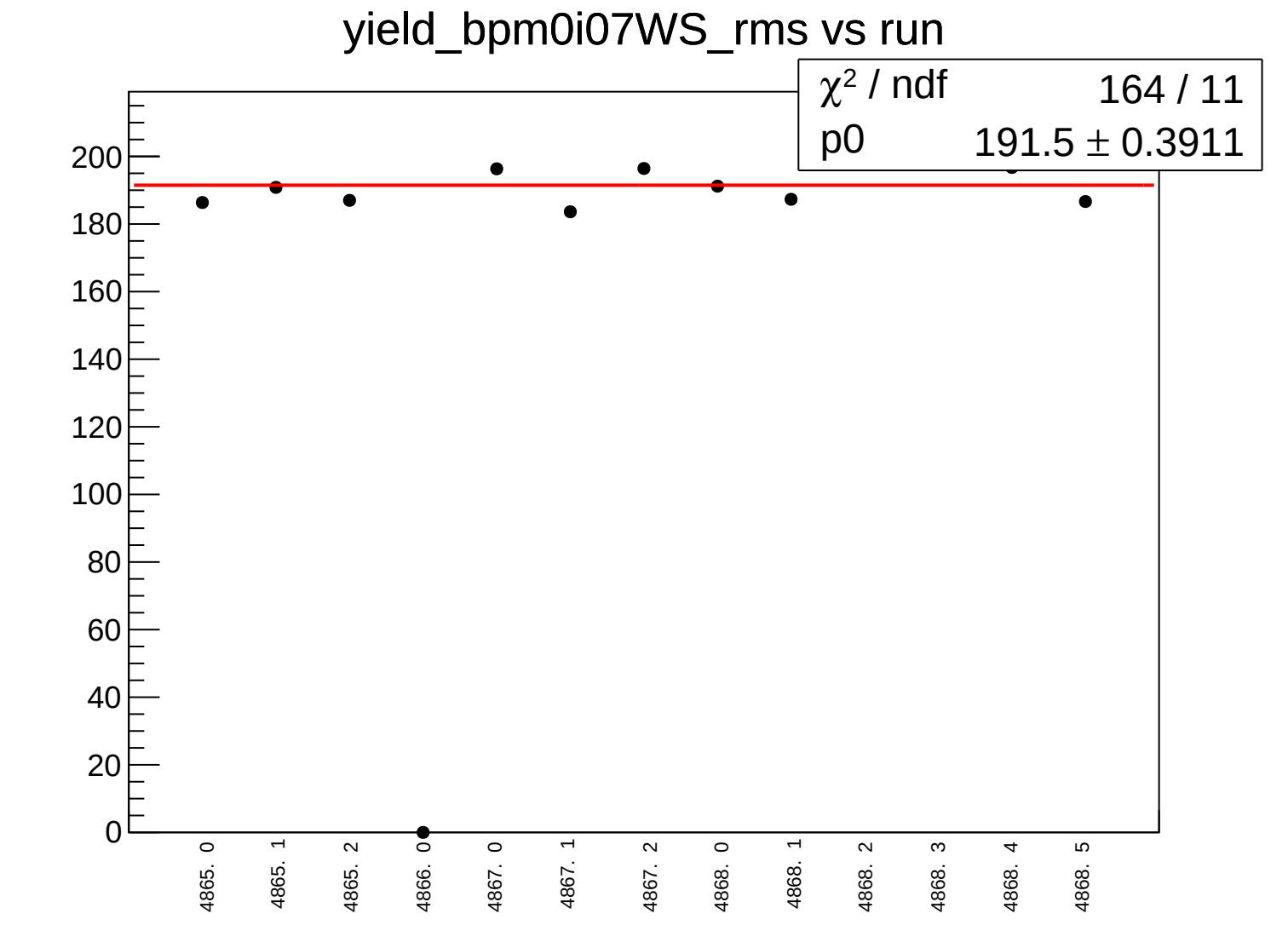

yield_bpm2i01WS_mean vs run
×10^3
χ^2 / ndf 9571 / 11
p0 1.146e+05 ± 0.4115
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 1.422
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm2i01WS_rms vs run
χ² / ndf 128 / 11
p0 142.5 ± 0.291
160
140
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 2.85e+04 / 11
p0 9.873e+04 ± 0.5531
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 6.048
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


yield_bpm0i07WS_rms vs run
χ² / ndf 164 / 11
p0 191.5 ± 0.3911
200
180
160
140
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
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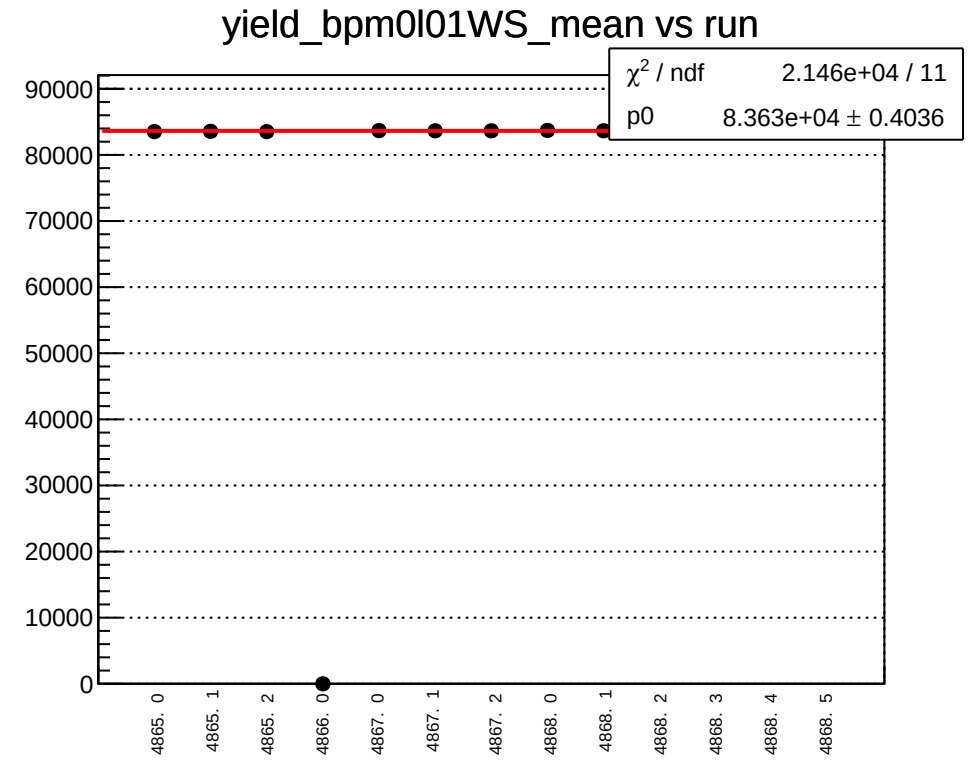
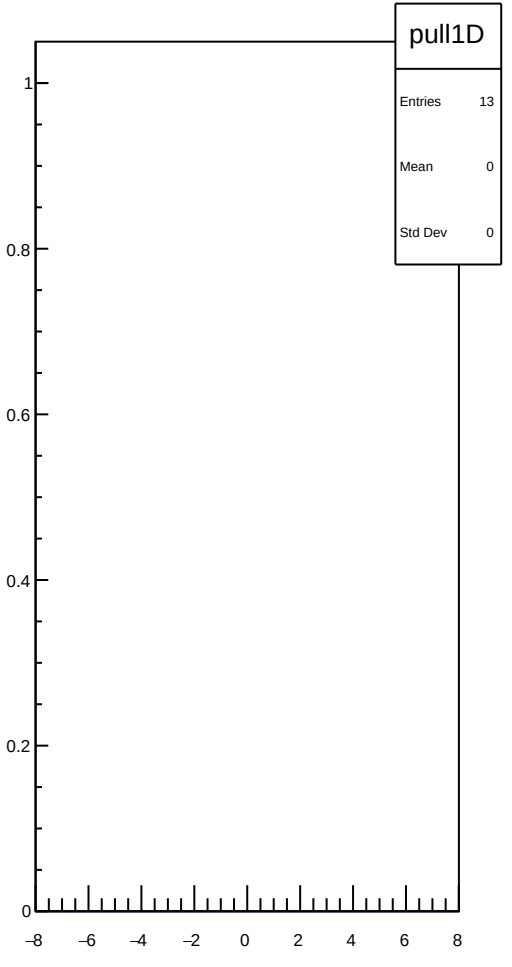
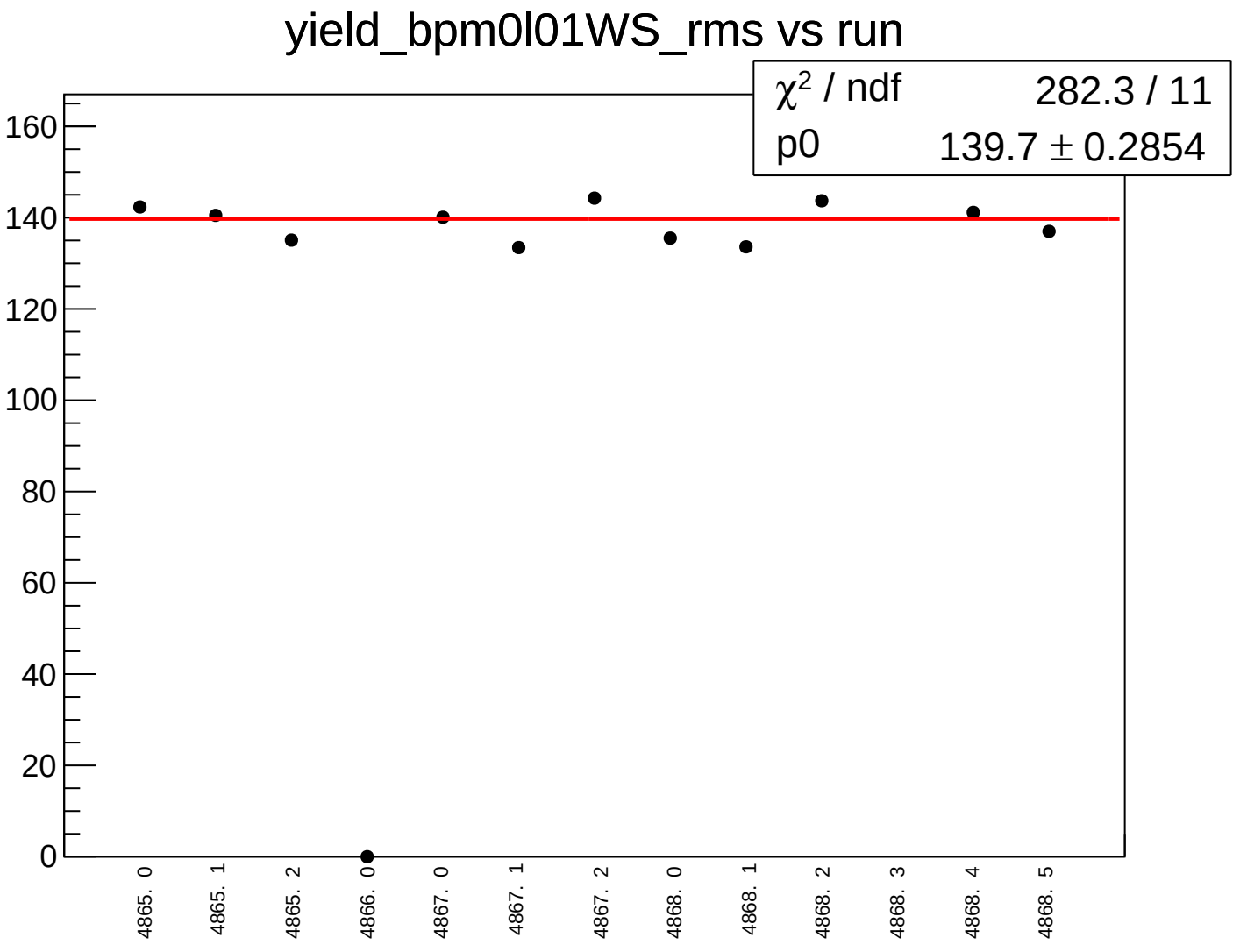
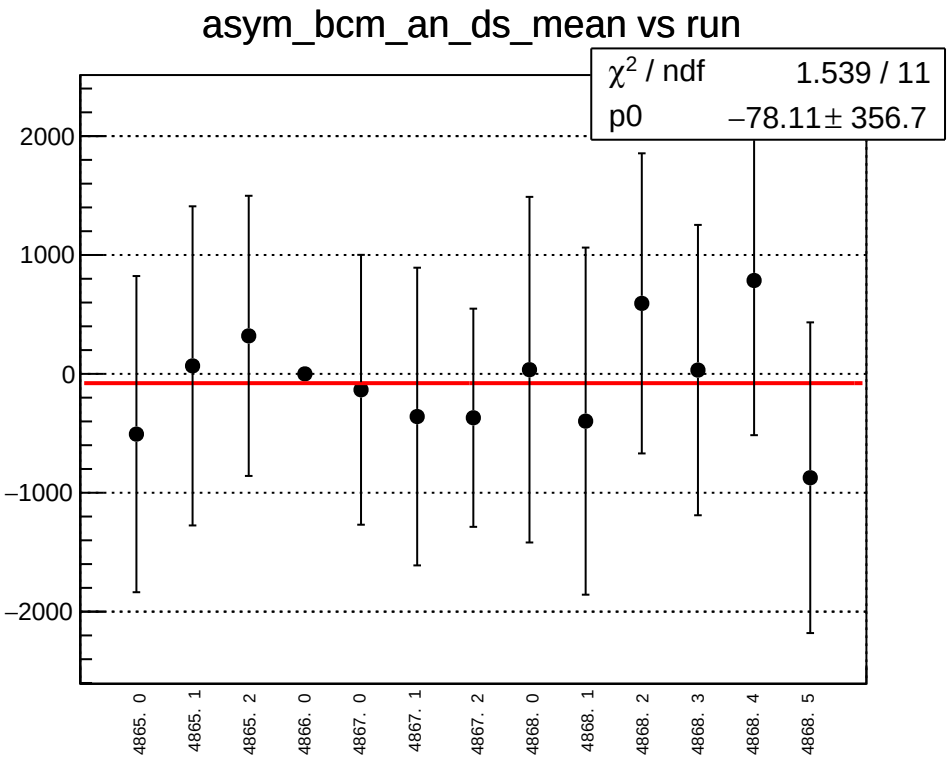
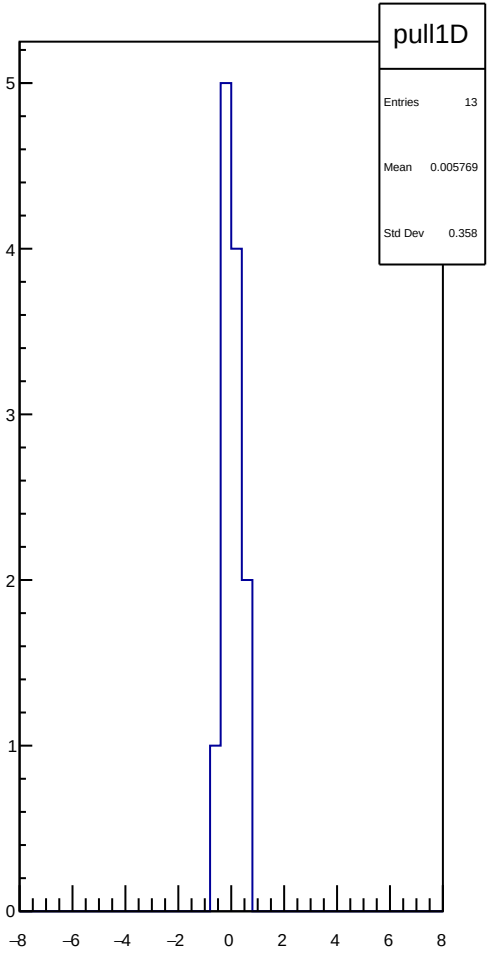
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

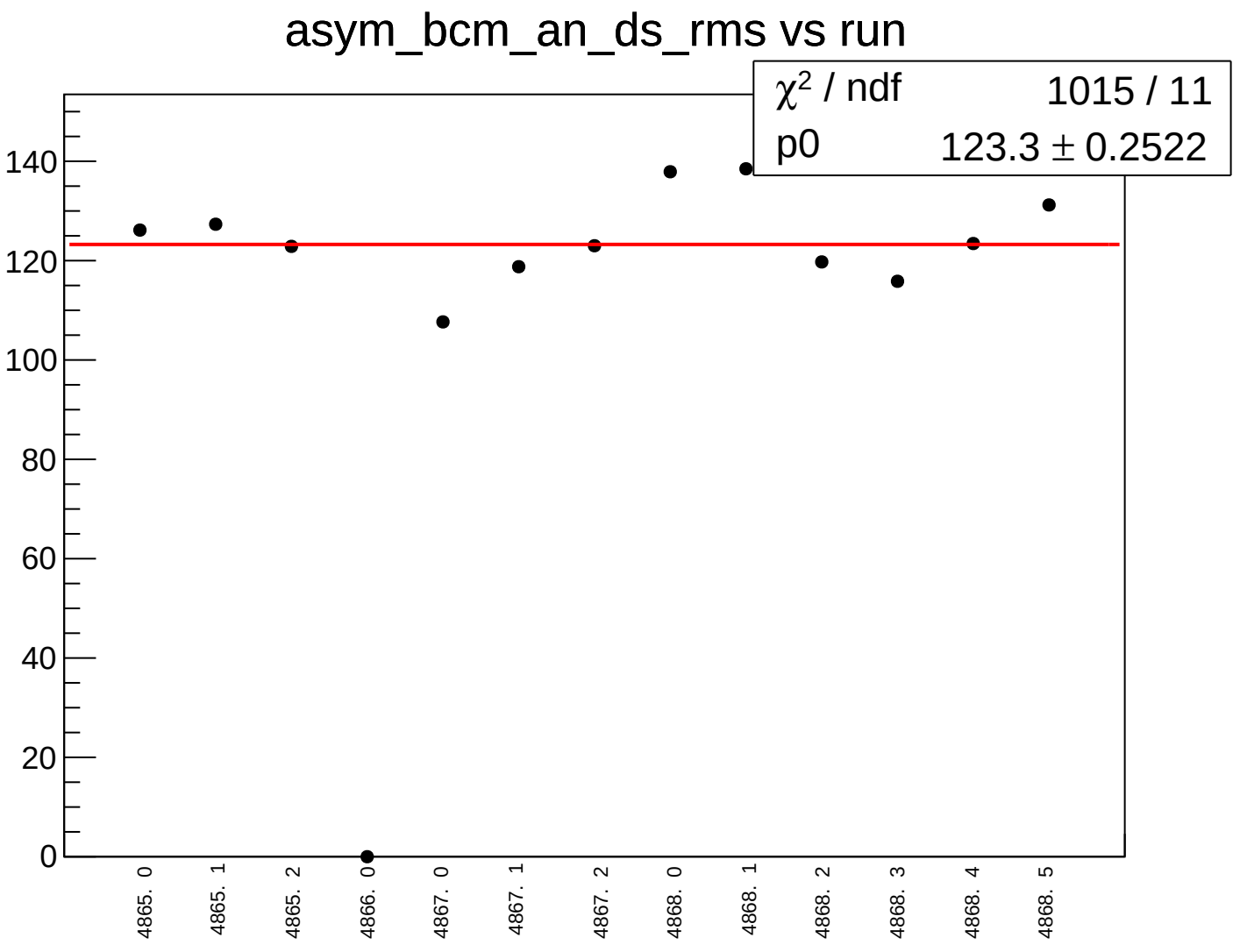

yield_bpm0l01WS_mean vs run
χ² / ndf 2.146e+04 / 11
p0 8.363e+04 ± 0.4036
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

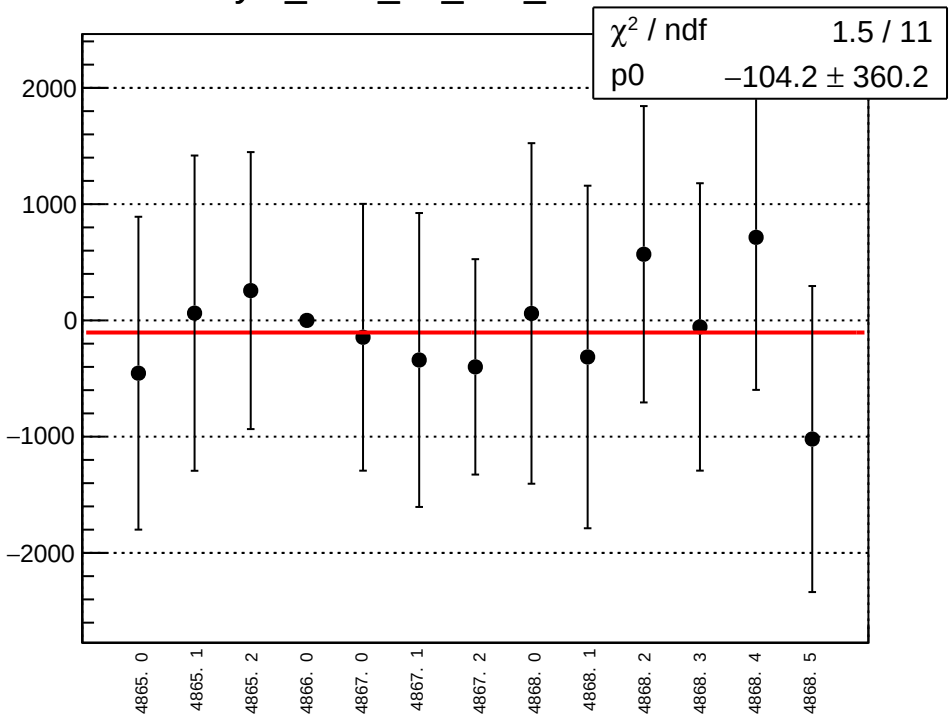

pull1D
Entries 13
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

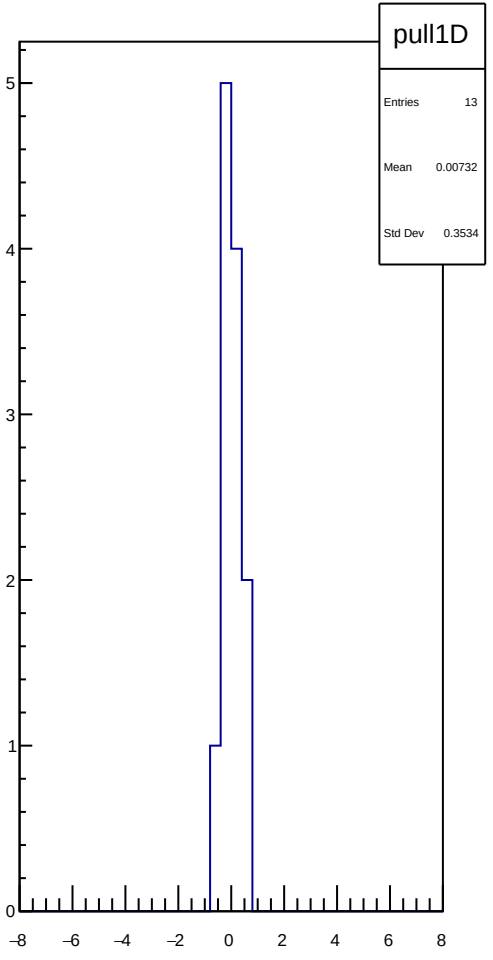

yield_bpm0l01WS_rms vs run
χ² / ndf 282.3 / 11
p0 139.7 ± 0.2854
160
140
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

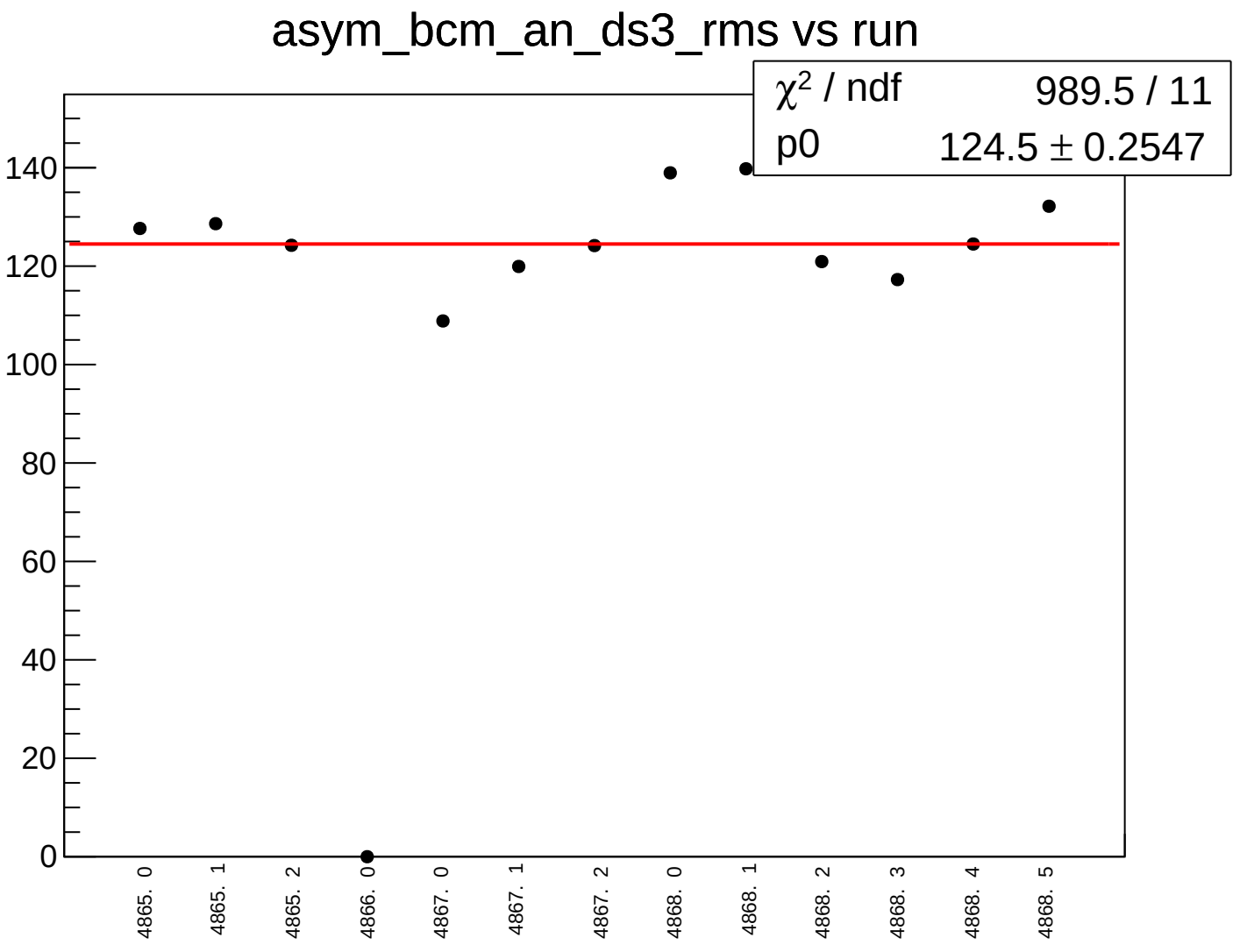

asym_bcm_an_ds_mean vs run
χ² / ndf 1.539 / 11
p0 −78.11 ± 356.7
2000
1000
0
−1000
−2000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

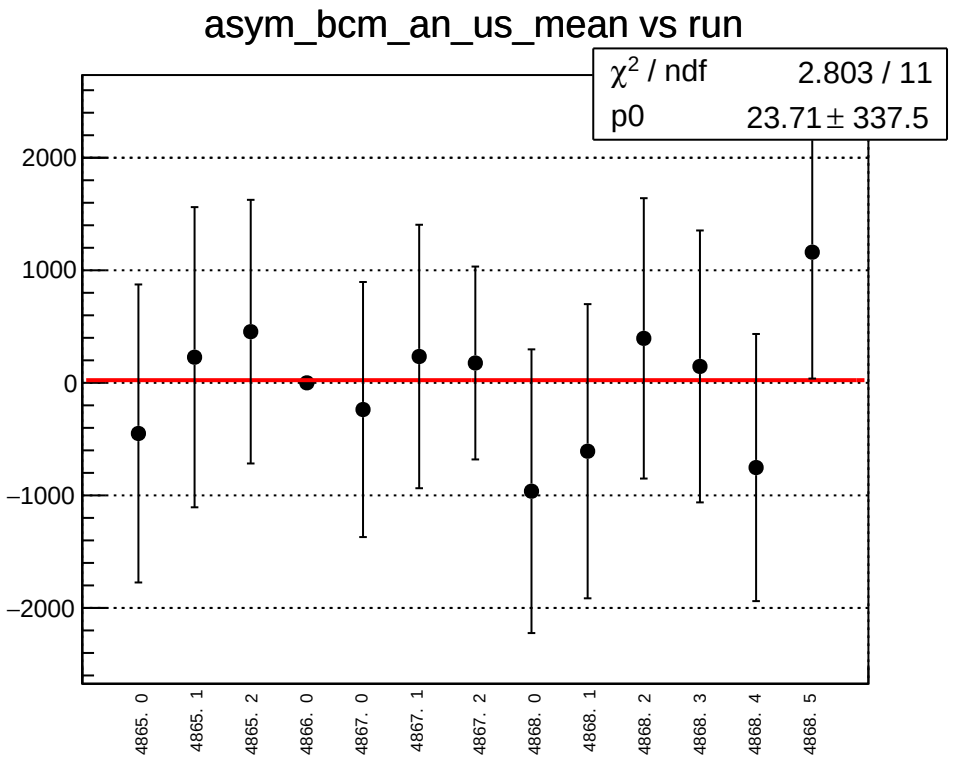

pull1D
Entries 13
Mean 0.005769
Std Dev 0.358
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

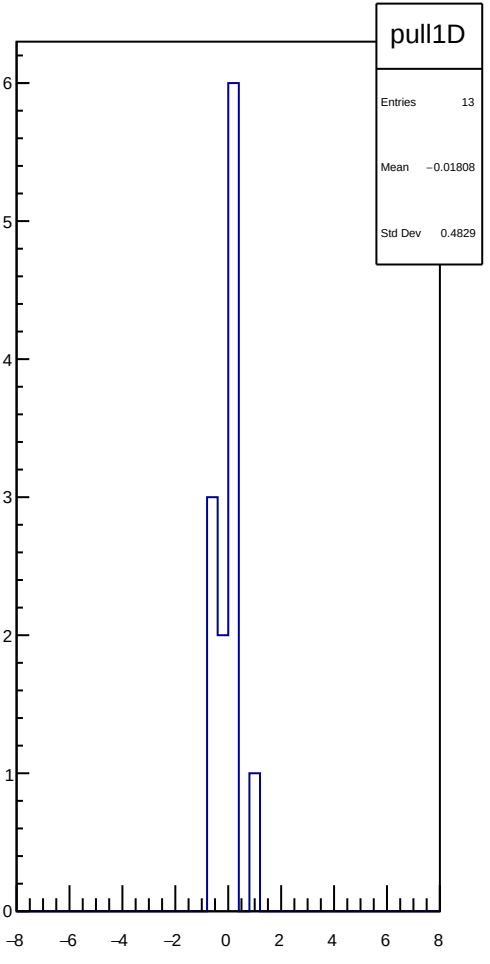

asym_bcm_an_ds_rms vs run
χ² / ndf 1015 / 11
p0 123.3 ± 0.2522
140
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

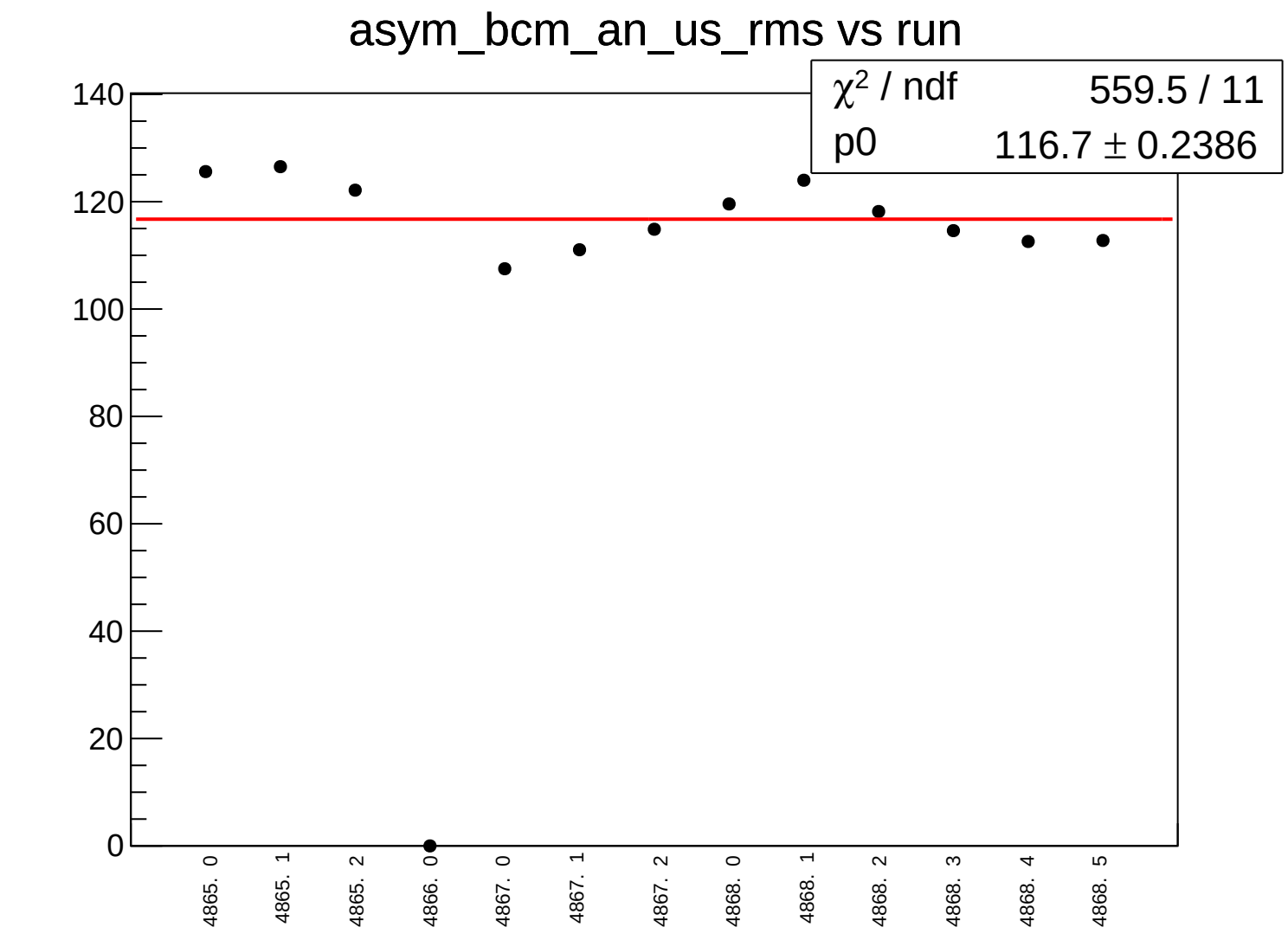

asym_bcm_an_ds3_mean vs run
χ² / ndf 1.5 / 11
p0 −104.2 ± 360.2
2000
1000
0
−1000
−2000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

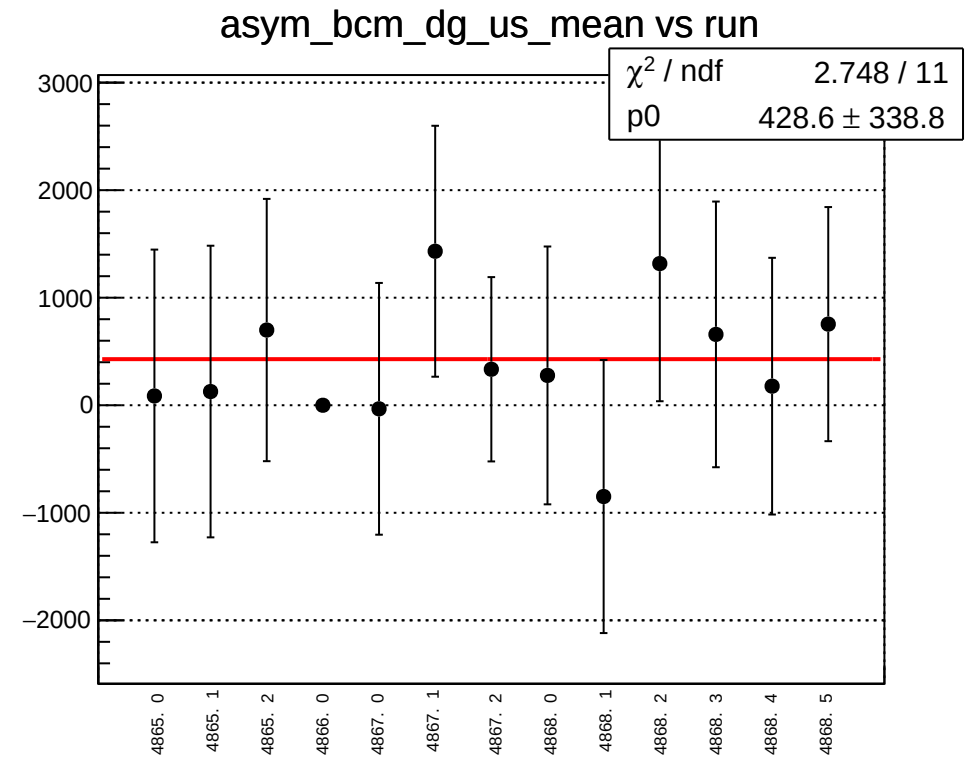

pull1D
Entries 13
Mean 0.00732
Std Dev 0.3534
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

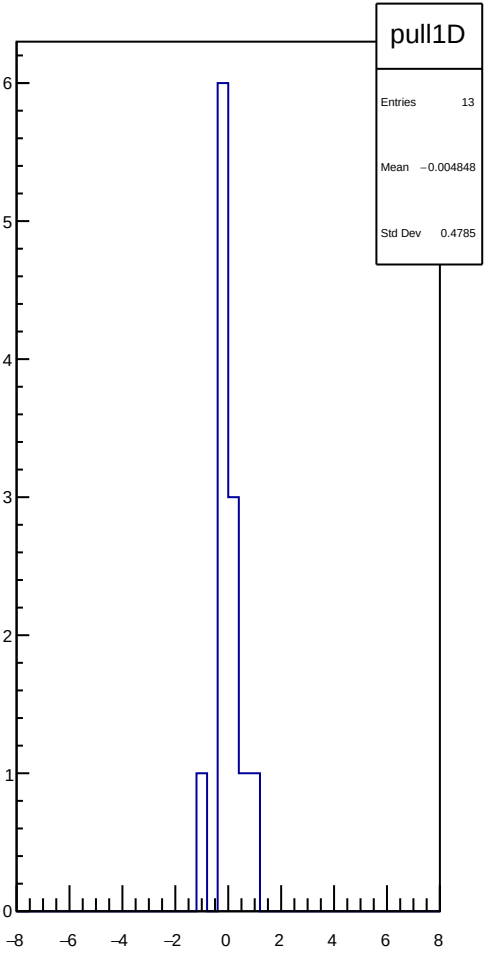

asym_bcm_an_ds3_rms vs run
χ² / ndf 989.5 / 11
p0 124.5 ± 0.2547
140
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

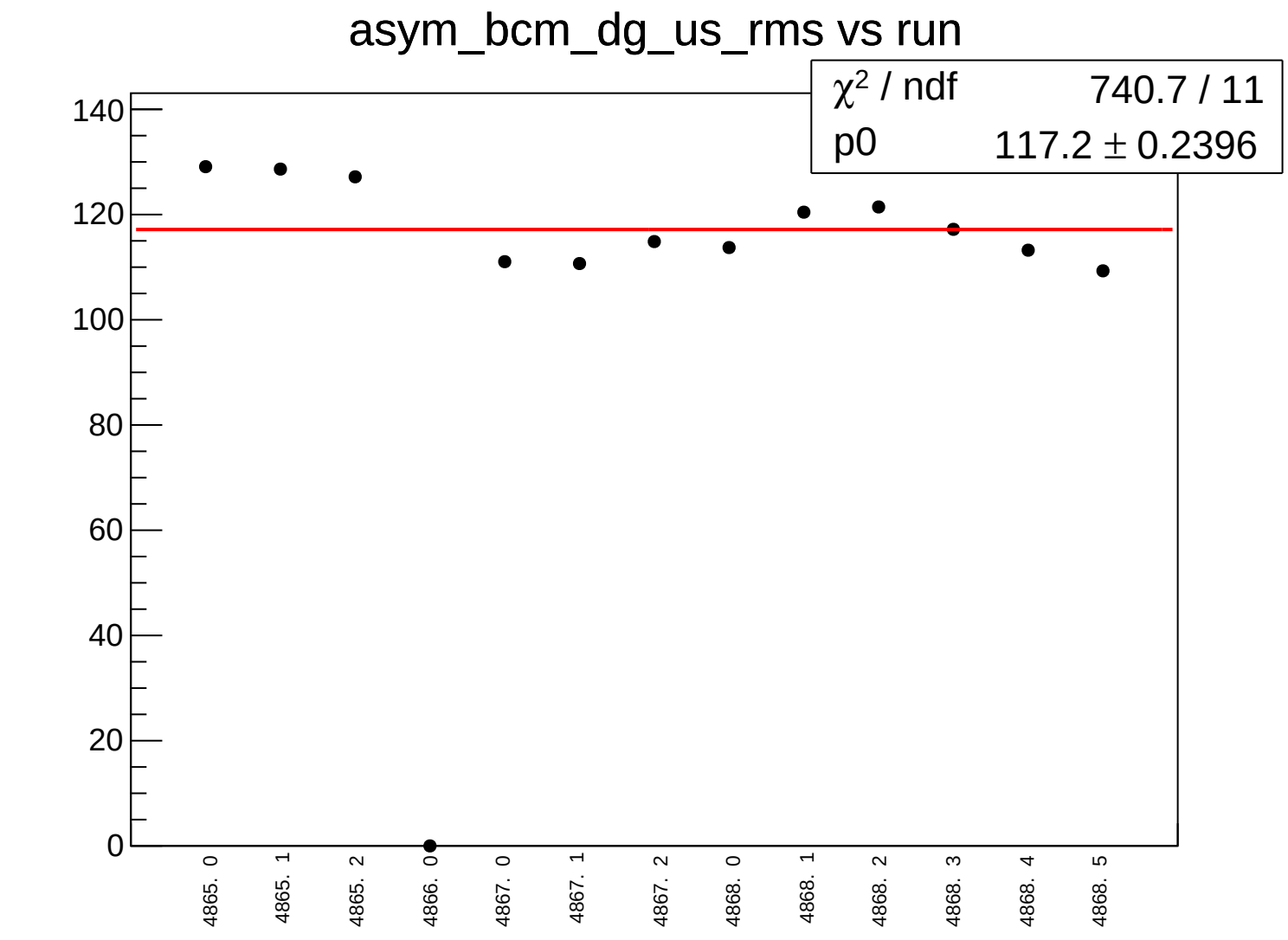

asym_bcm_an_us_mean vs run
χ² / ndf 2.803 / 11
p0 23.71 ± 337.5
2000
1000
0
−1000
−2000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.01808
Std Dev 0.4829
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_an_us_rms vs run
χ² / ndf 559.5 / 11
p0 116.7 ± 0.2386
140
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_bcm_dg_us_mean vs run
χ² / ndf 2.748 / 11
p0 428.6 ± 338.8
3000
2000
1000
0
−1000
−2000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.004848
Std Dev 0.4785
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_rms vs run
χ² / ndf 740.7 / 11
p0 117.2 ± 0.2396
140
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
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4867. 1
4867. 2
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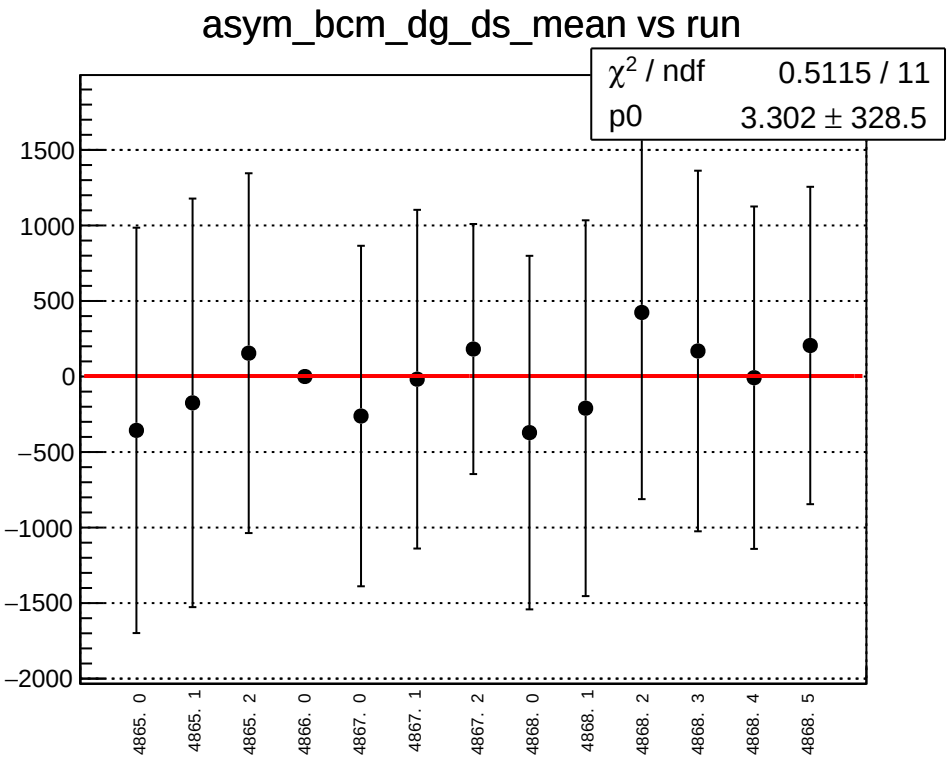
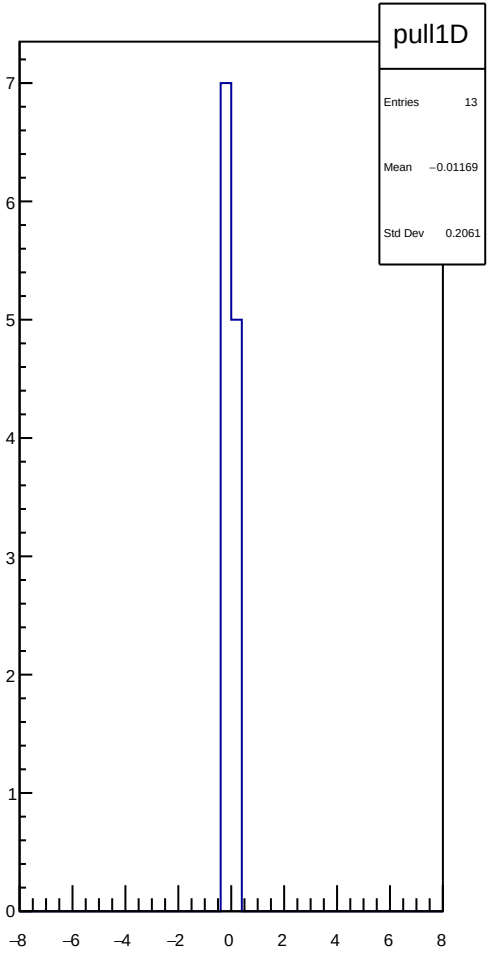
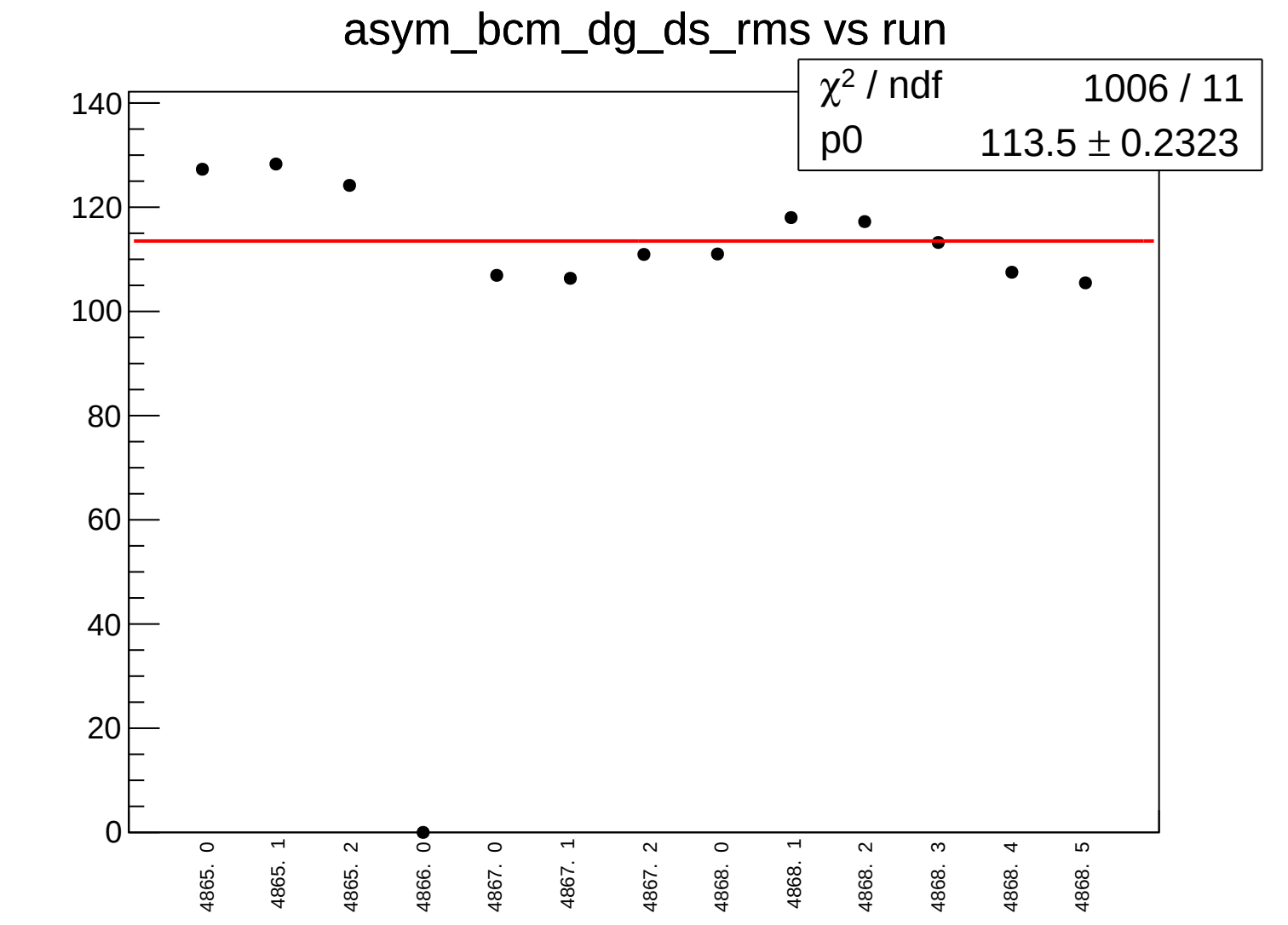
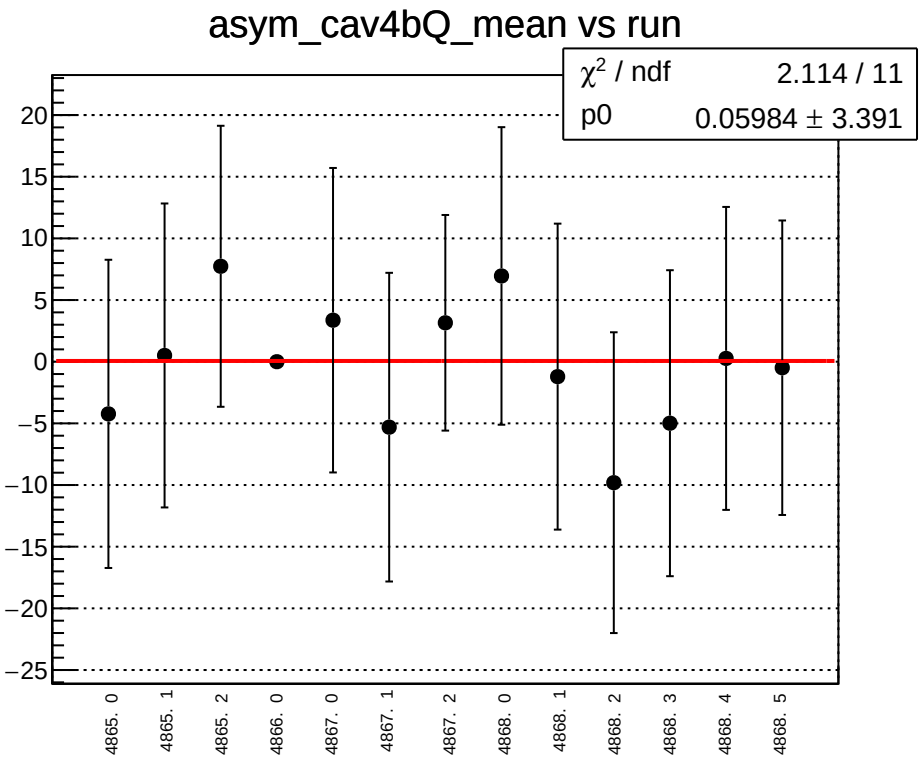
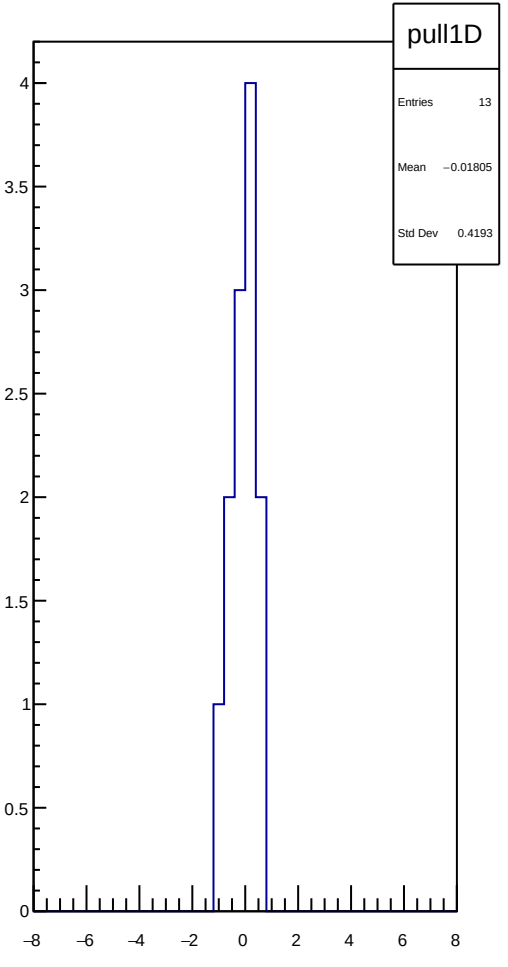
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

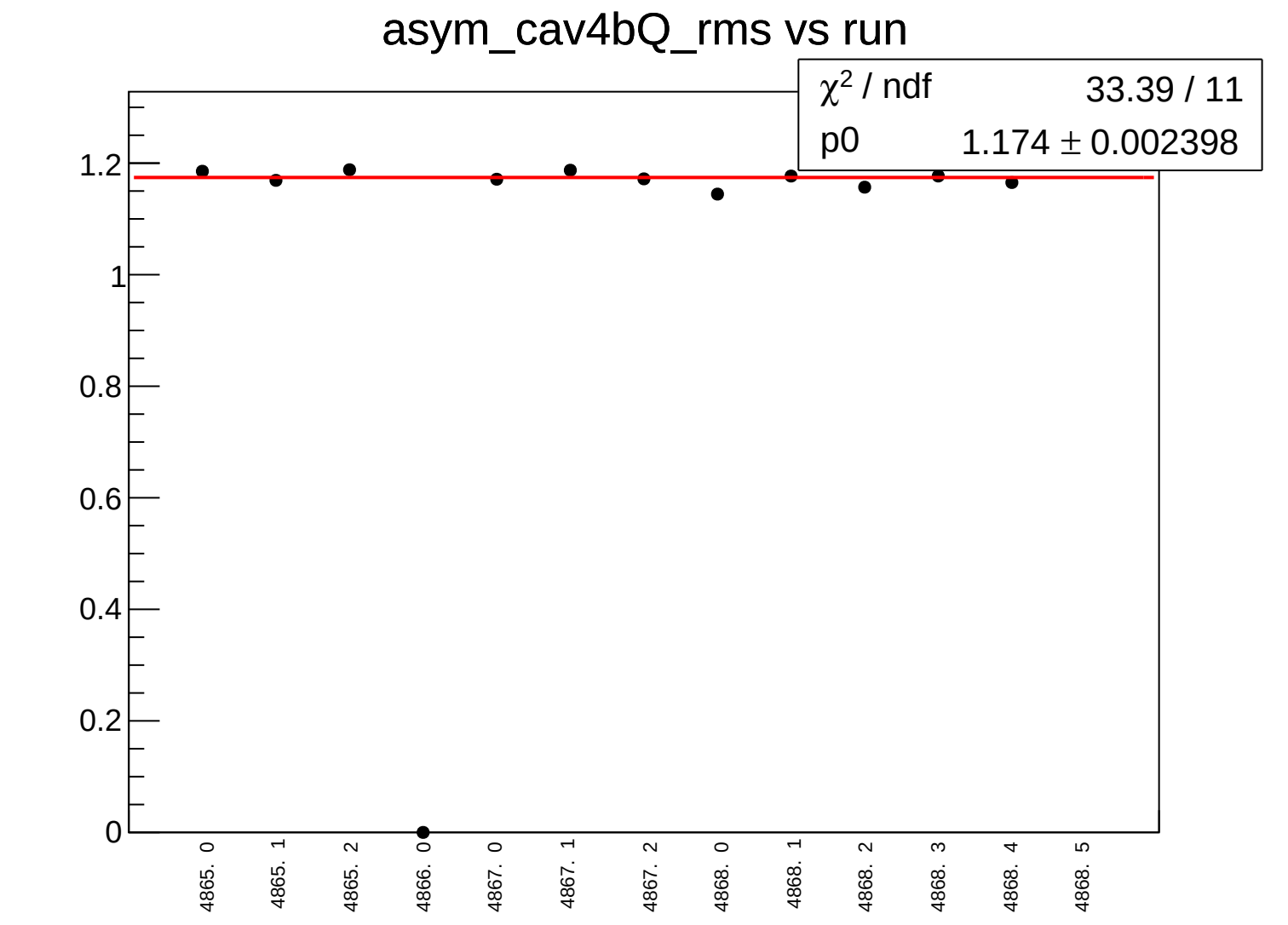

asym_bcm_dg_ds_mean vs run
χ² / ndf 0.5115 / 11
p0 3.302 ± 328.5
1500
1000
500
0
−500
−1000
−1500
−2000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

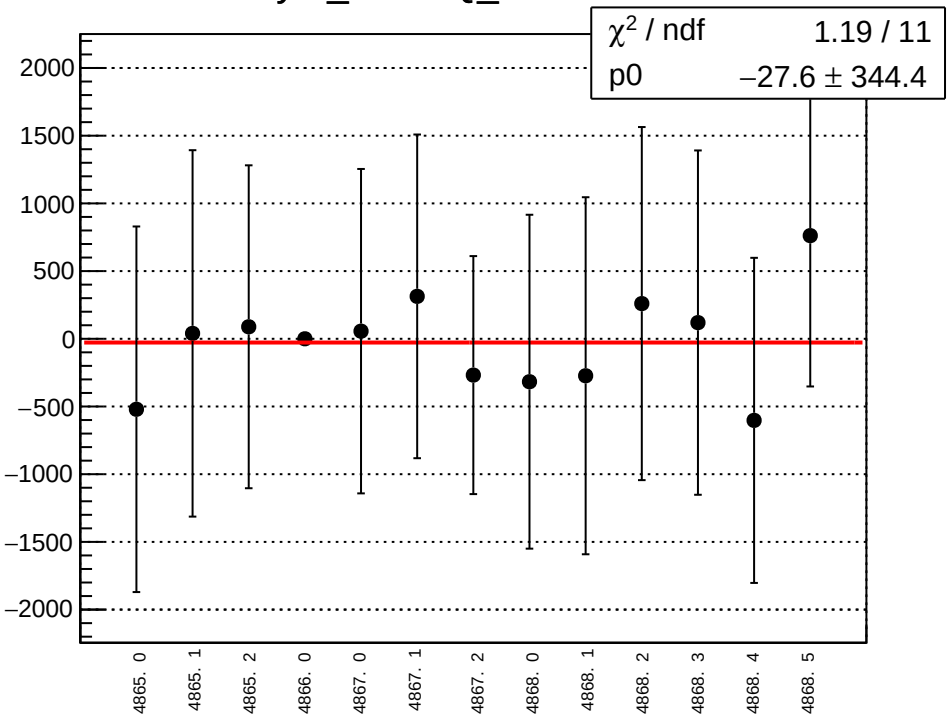

pull1D
Entries 13
Mean −0.01169
Std Dev 0.2061
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

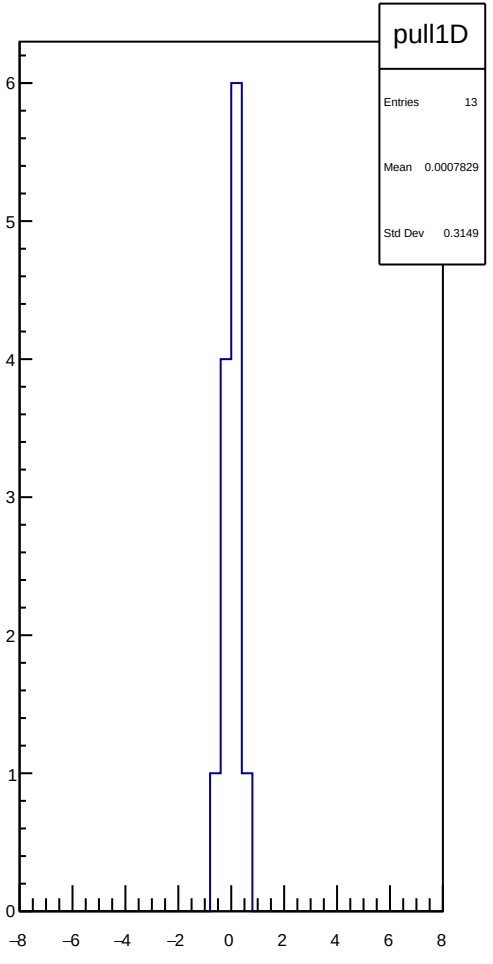

asym_bcm_dg_ds_rms vs run
χ² / ndf 1006 / 11
p0 113.5 ± 0.2323
140
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

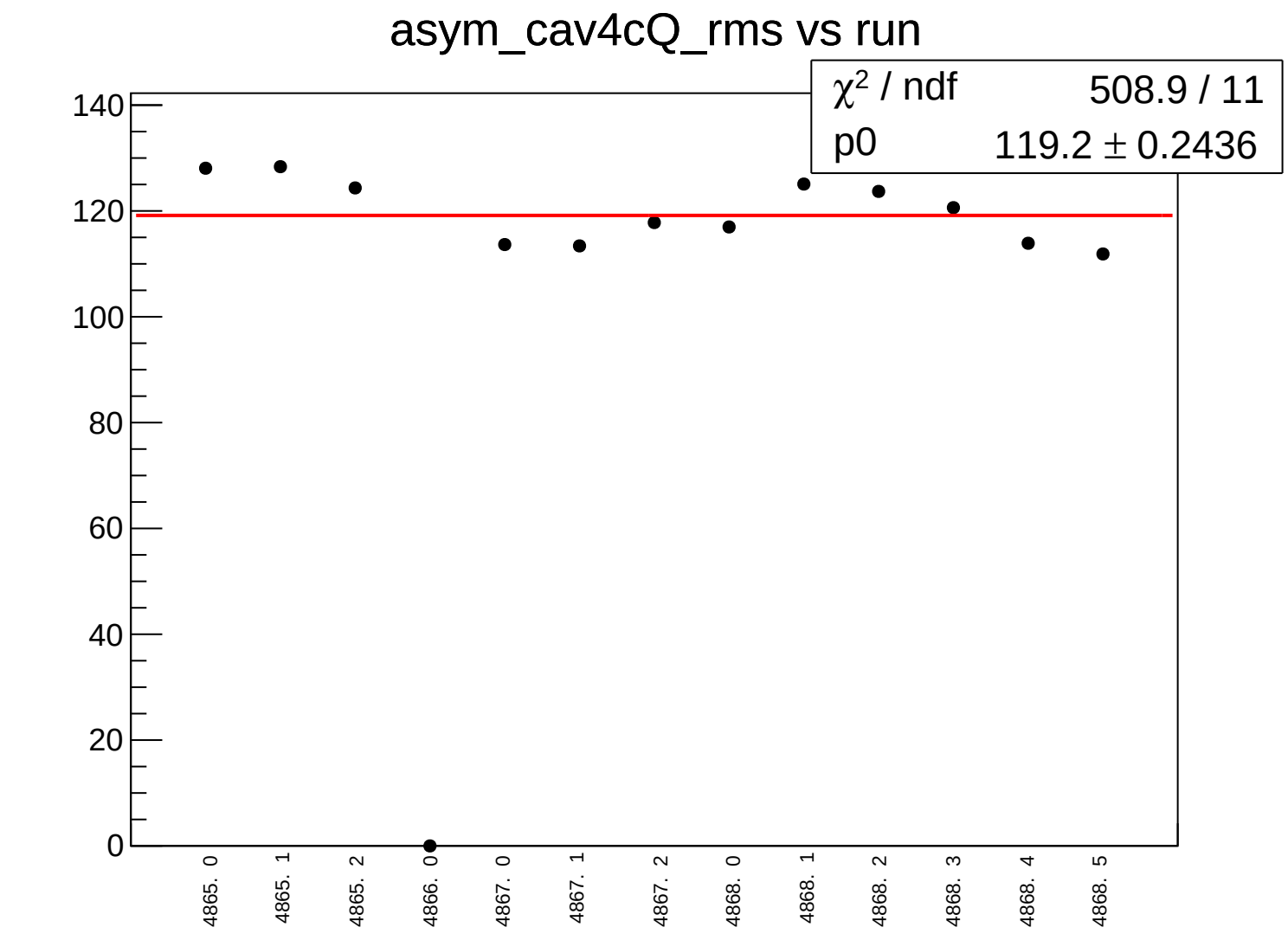

asym_cav4bQ_mean vs run
χ² / ndf 2.114 / 11
p0 0.05984 ± 3.391
20
15
10
5
0
−5
−10
−15
−20
−25
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

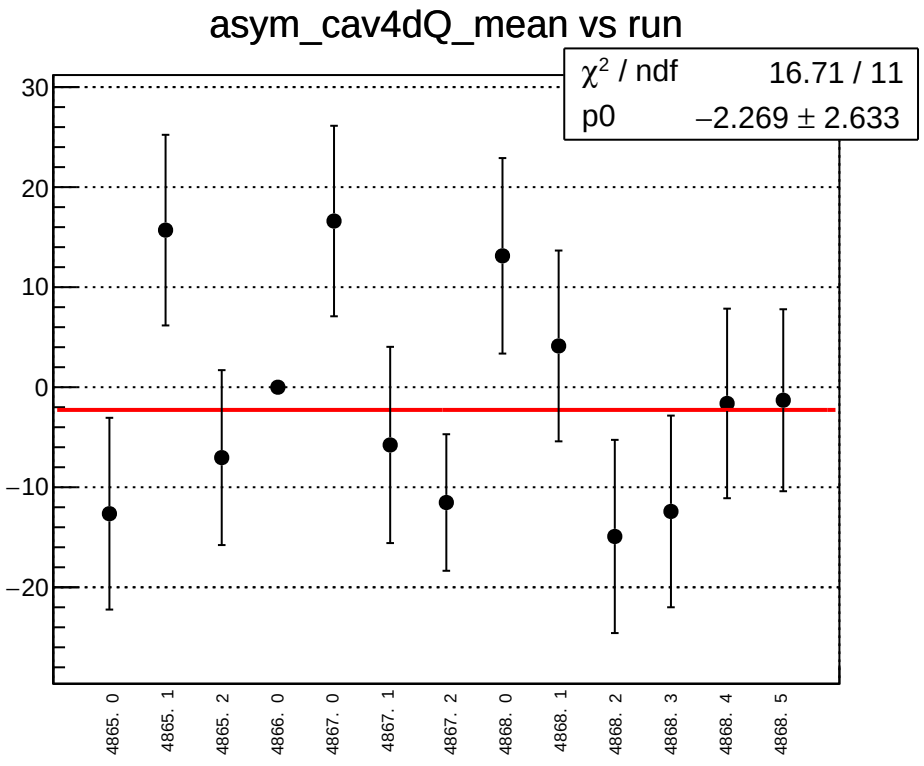

pull1D
Entries 13
Mean −0.01805
Std Dev 0.4193
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

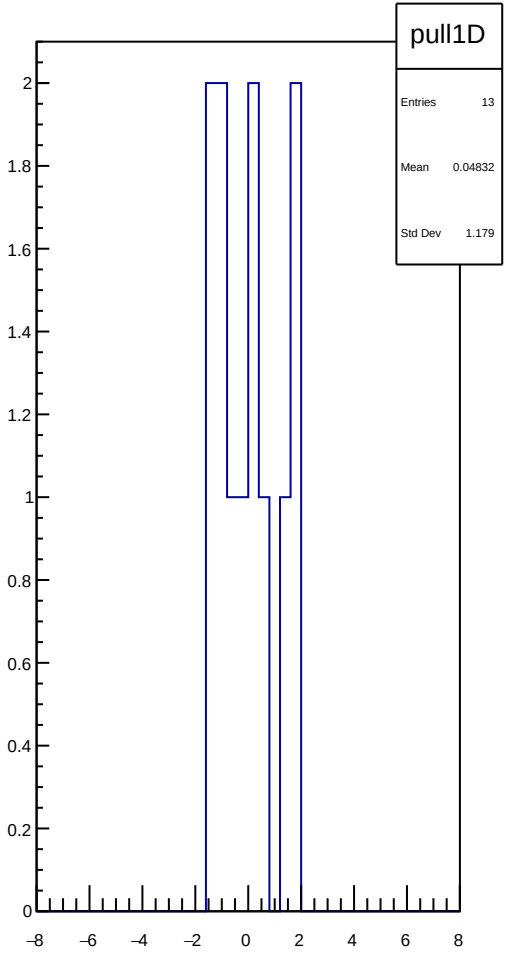

asym_cav4bQ_rms vs run
χ² / ndf 33.39 / 11
p0 1.174 ± 0.002398
1.2
1
0.8
0.6
0.4
0.2
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

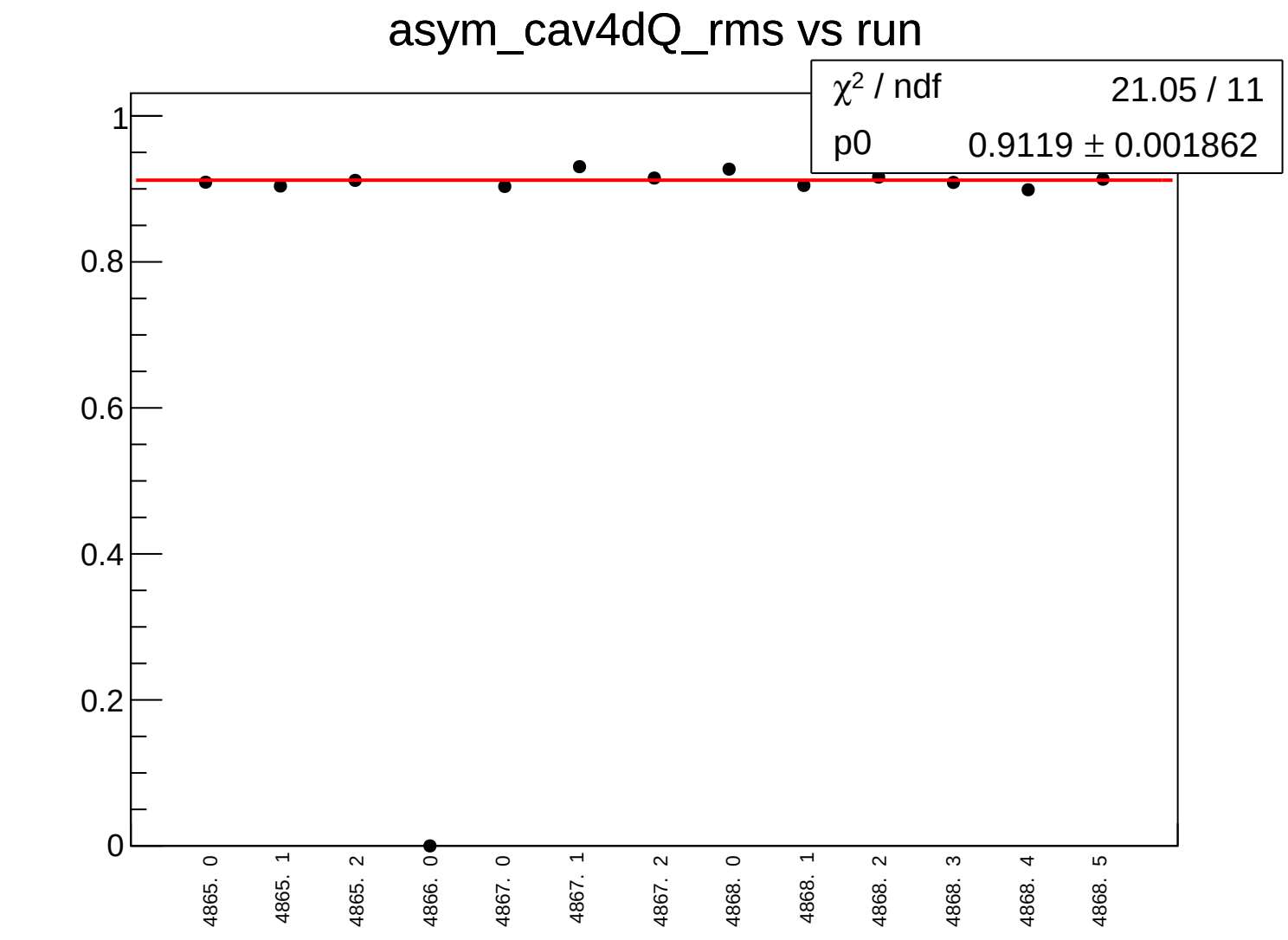

asym_cav4cQ_mean vs run
χ² / ndf 1.19 / 11
p0 −27.6 ± 344.4
2000
1500
1000
500
0
−500
−1000
−1500
−2000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

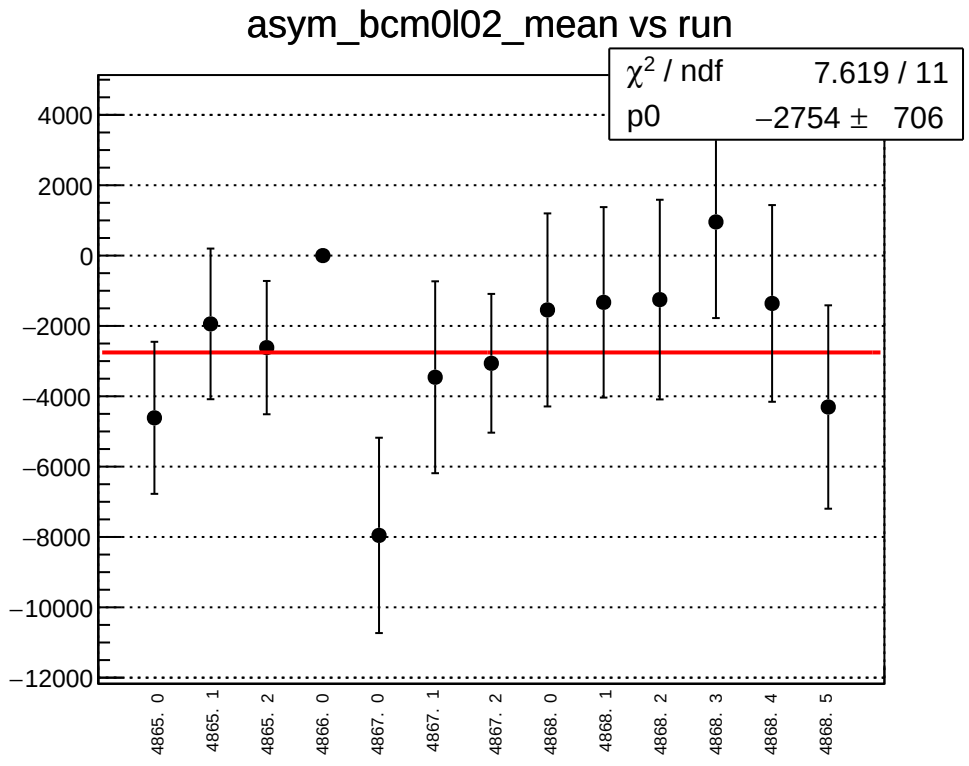

pull1D
Entries 13
Mean 0.0007829
Std Dev 0.3149
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

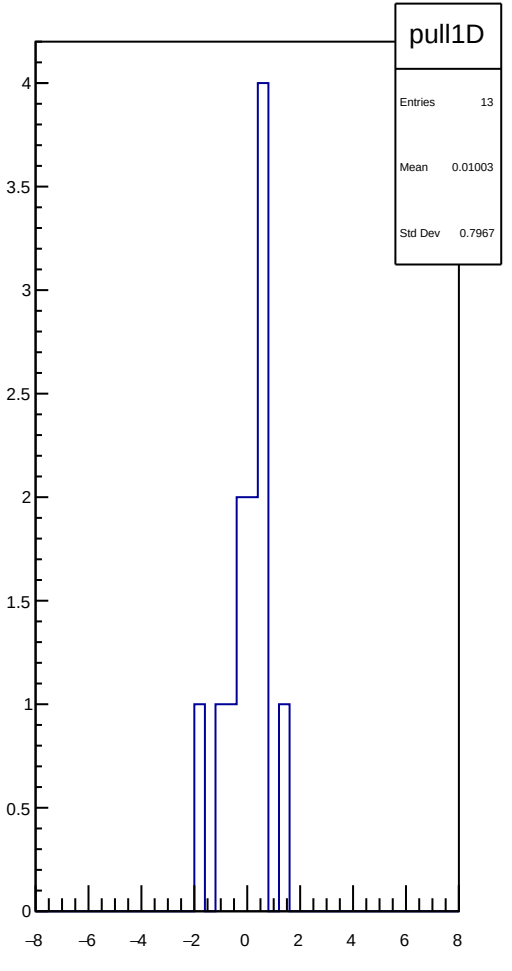

asym_cav4cQ_rms vs run
χ² / ndf 508.9 / 11
p0 119.2 ± 0.2436
140
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

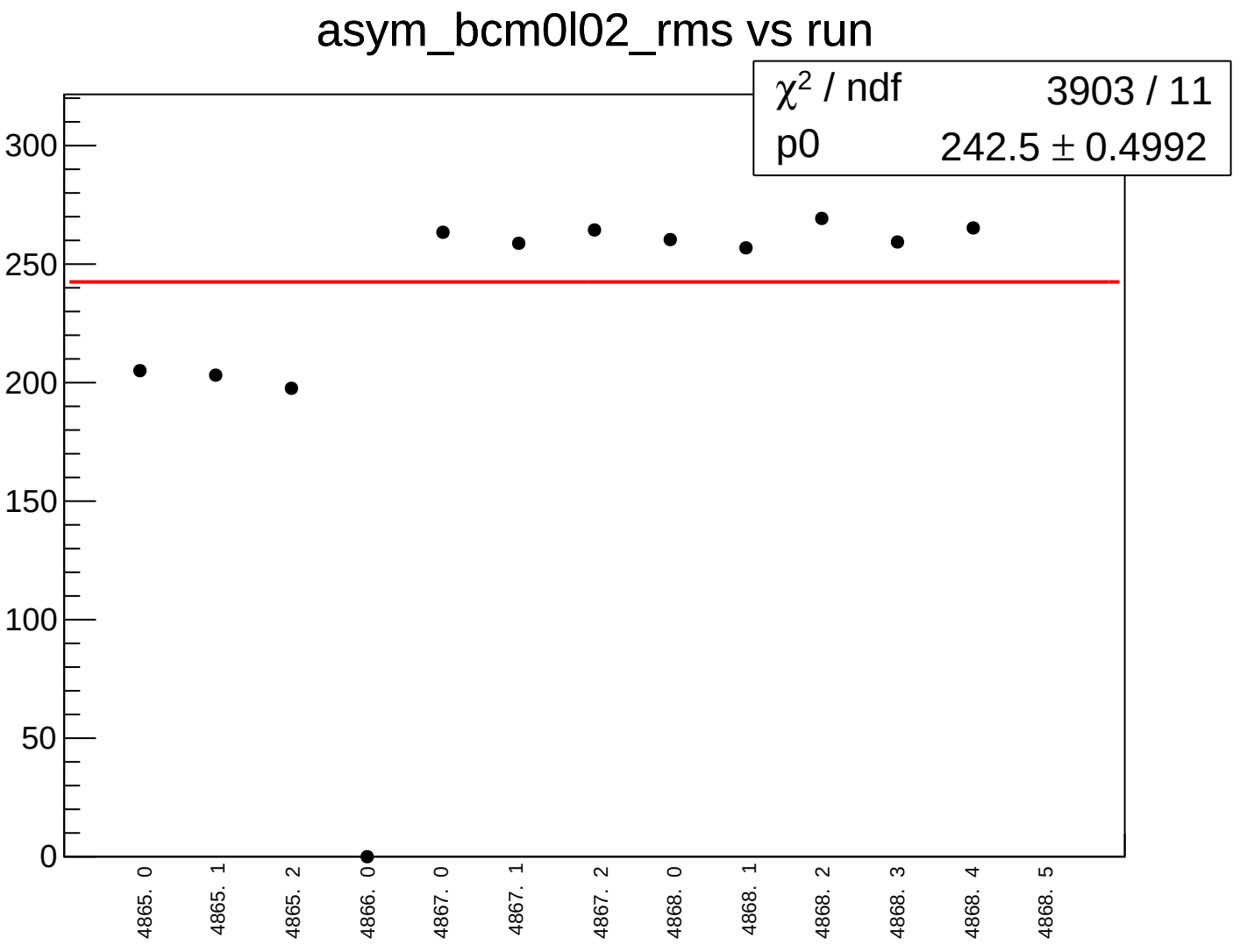

asym_cav4dQ_mean vs run
χ² / ndf 16.71 / 11
p0 −2.269 ± 2.633
30
20
10
0
−10
−20
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

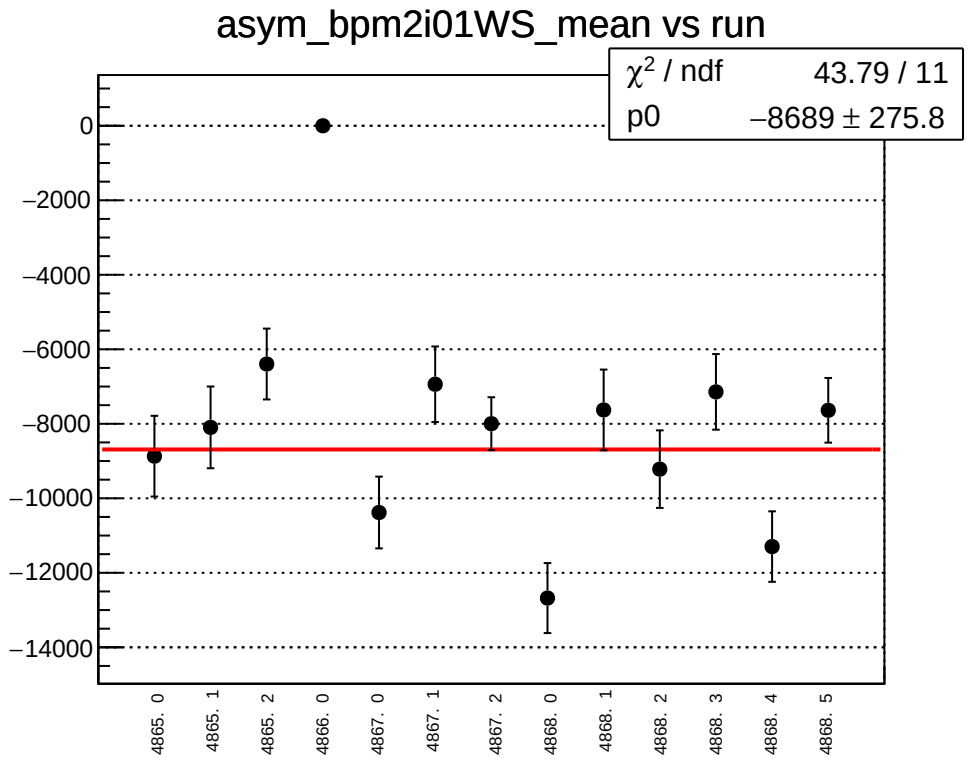

pull1D
Entries 13
Mean 0.04832
Std Dev 1.179
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

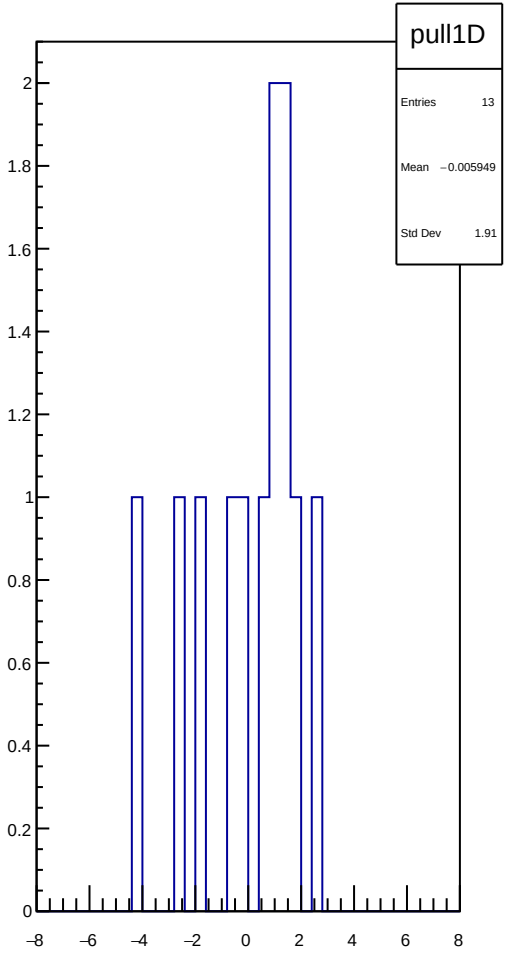

asym_cav4dQ_rms vs run
χ² / ndf 21.05 / 11
p0 0.9119 ± 0.001862
1
0.8
0.6
0.4
0.2
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

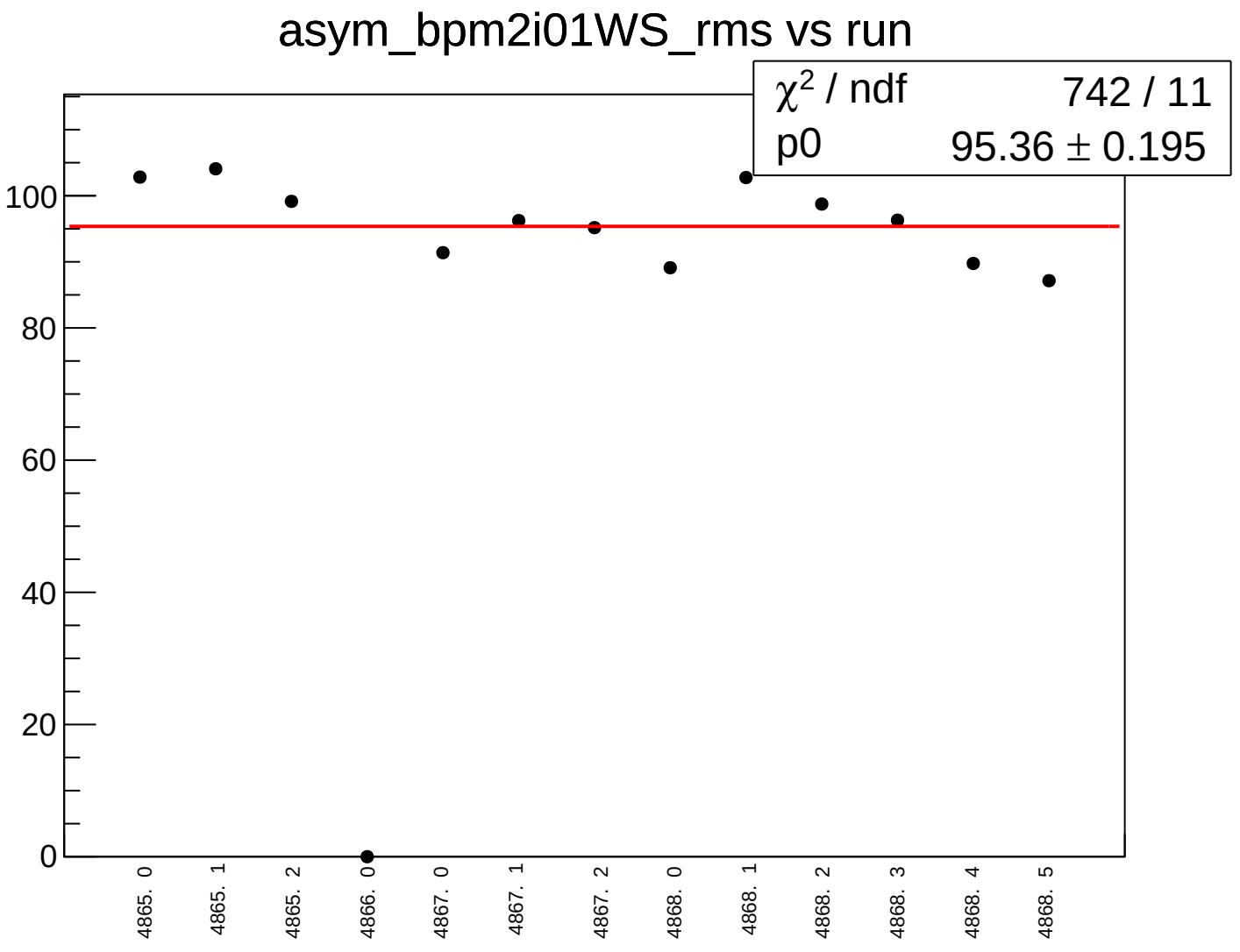

asym_bcm0l02_mean vs run
χ² / ndf 7.619 / 11
p0 −2754 ± 706
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

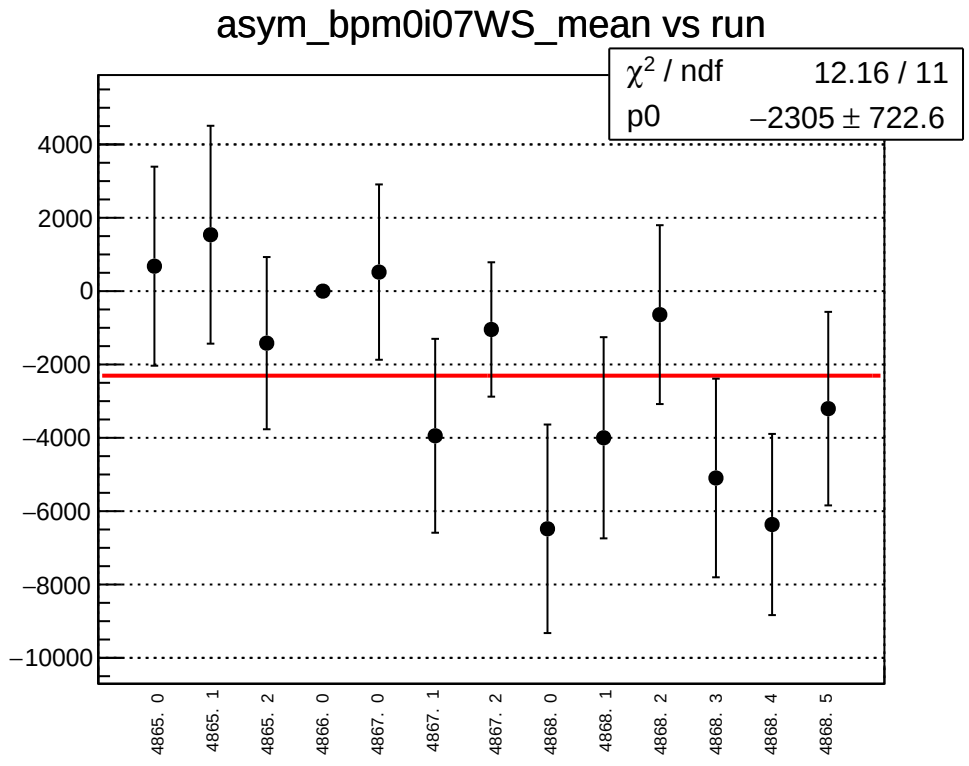

pull1D
Entries 13
Mean 0.01003
Std Dev 0.7967
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

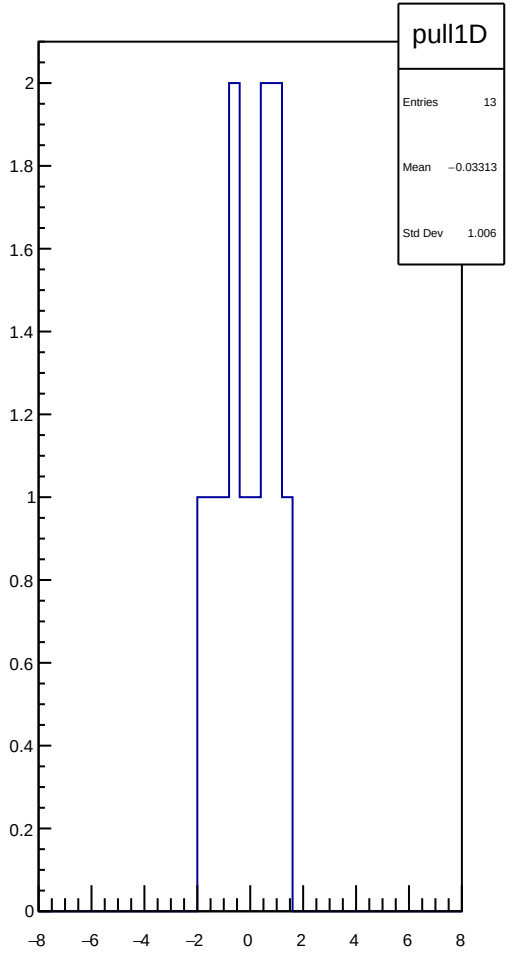

asym_bcm0l02_rms vs run
χ² / ndf 3903 / 11
p0 242.5 ± 0.4992
300
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

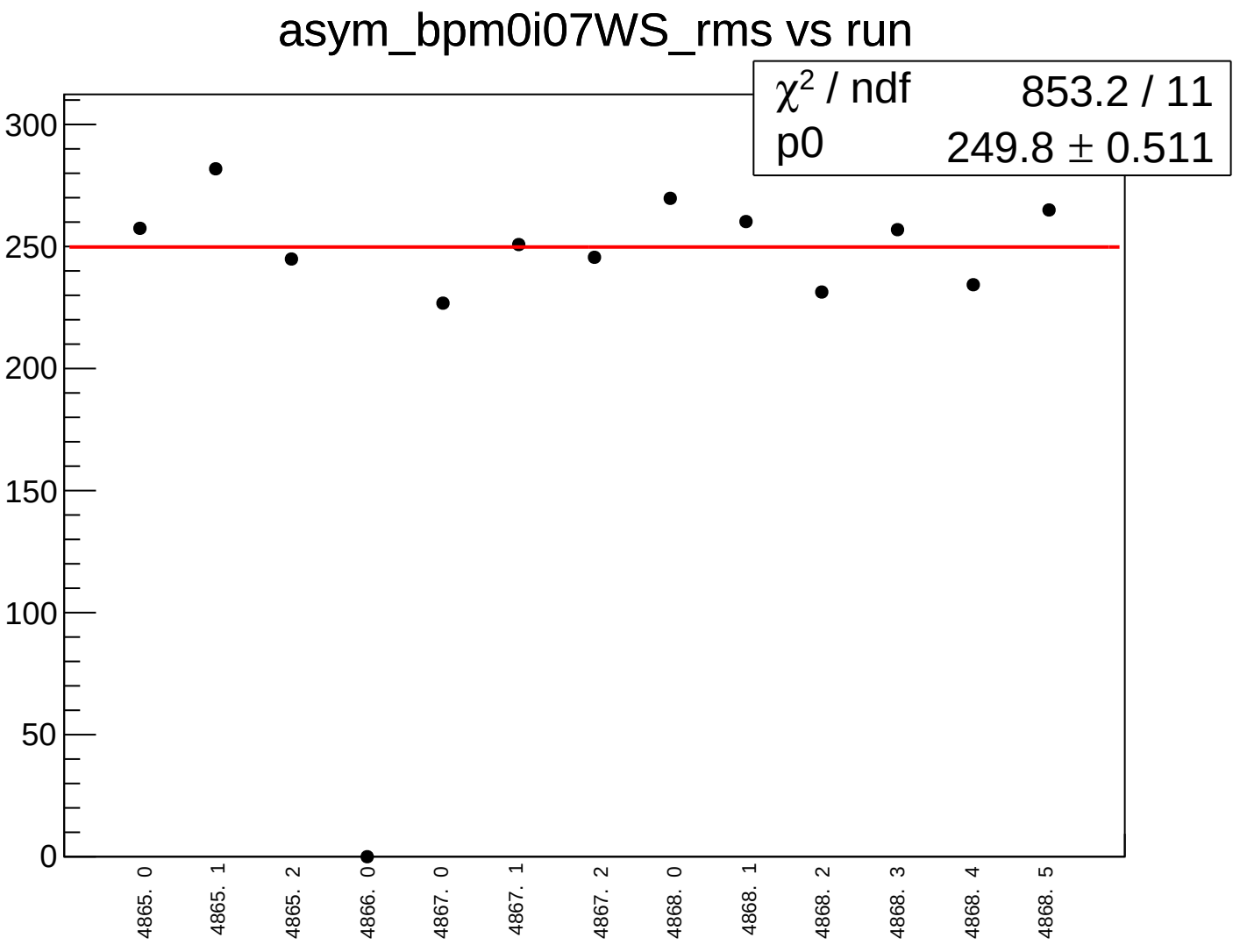

asym_bpm2i01WS_mean vs run
χ² / ndf 43.79 / 11
p0 −8689 ± 275.8
0
−2000
−4000
−6000
−8000
−10000
−12000
−14000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

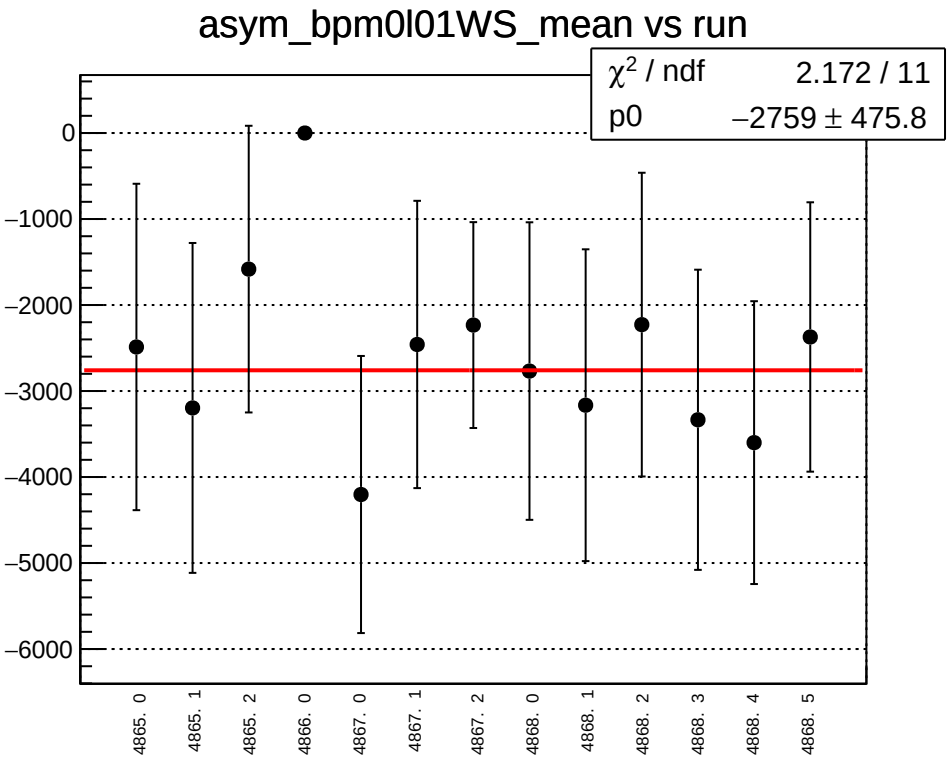

pull1D
Entries 13
Mean −0.005949
Std Dev 1.91
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

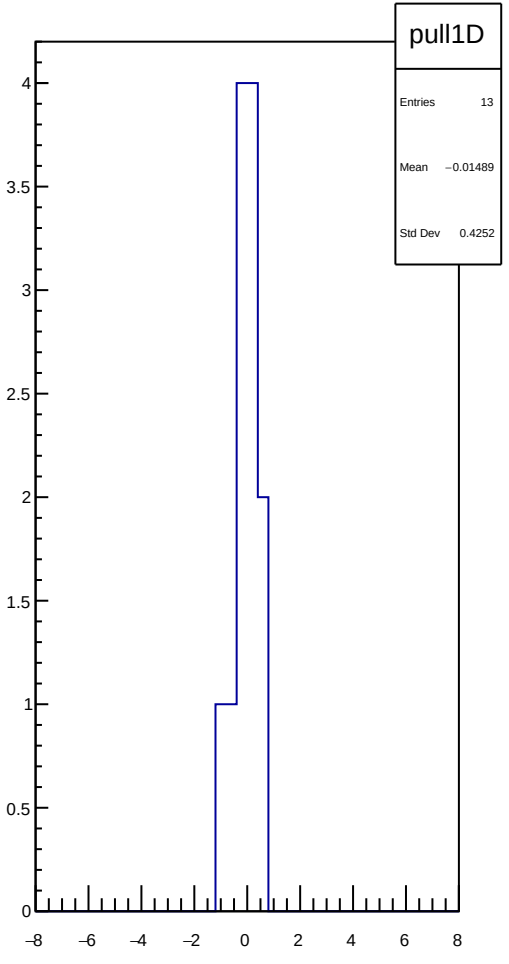

asym_bpm2i01WS_rms vs run
χ² / ndf 742 / 11
p0 95.36 ± 0.195
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

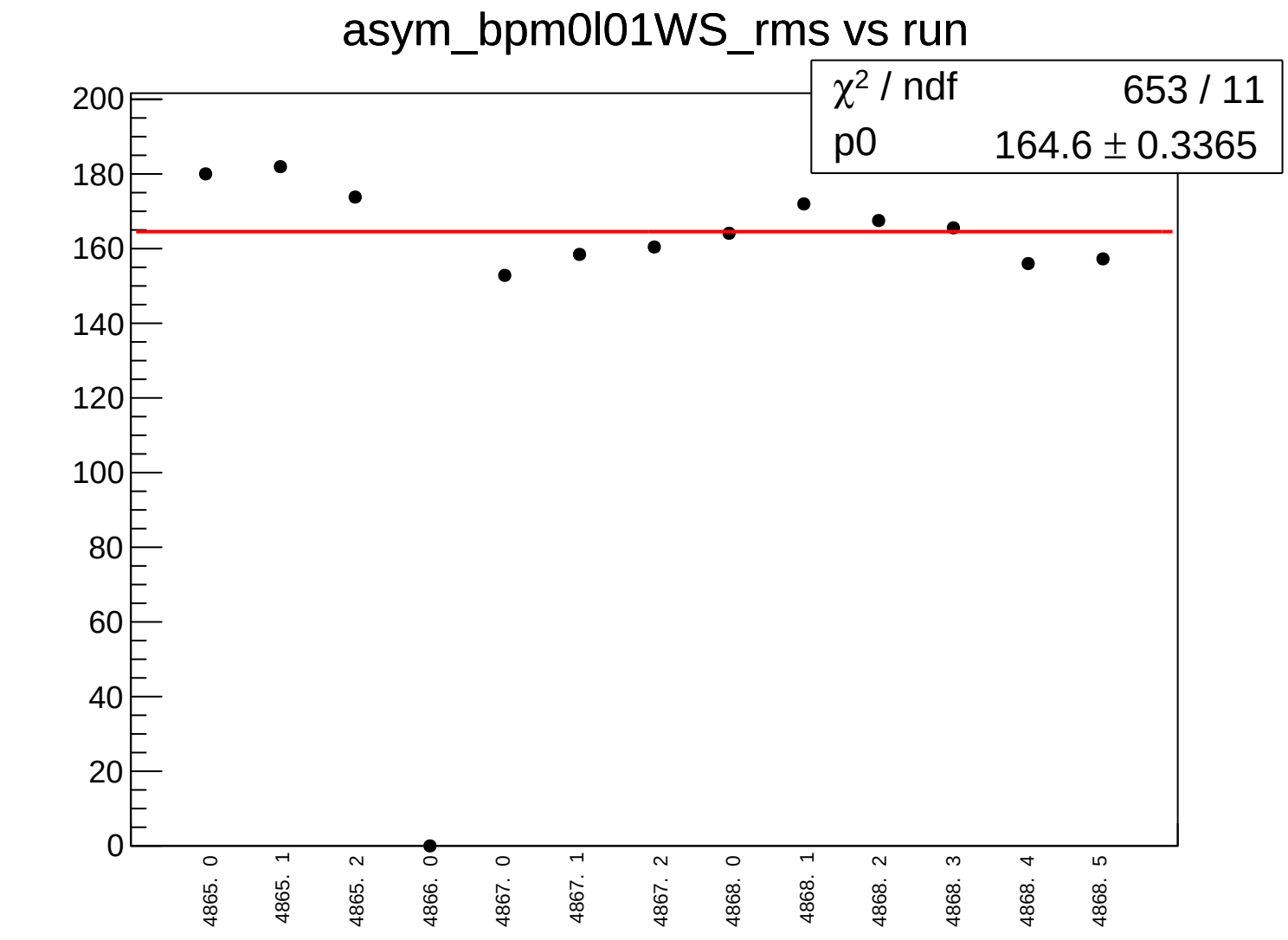

asym_bpm0i07WS_mean vs run
χ² / ndf 12.16 / 11
p0 −2305 ± 722.6
4000
2000
0
−2000
−4000
−6000
−8000
−10000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

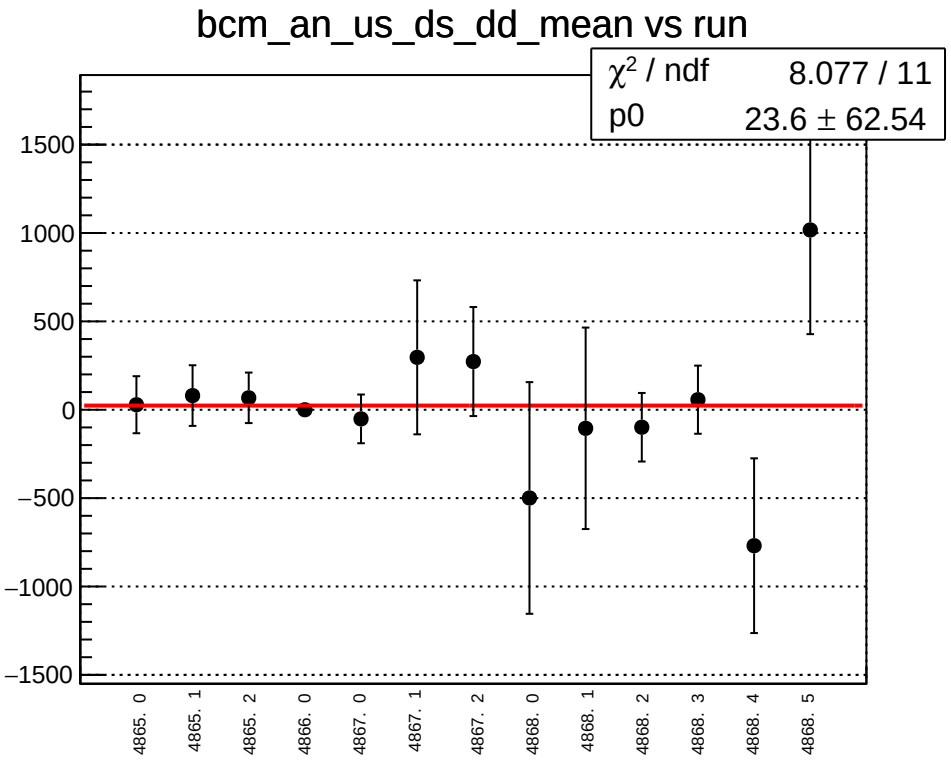

pull1D
Entries 13
Mean −0.03313
Std Dev 1.006
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

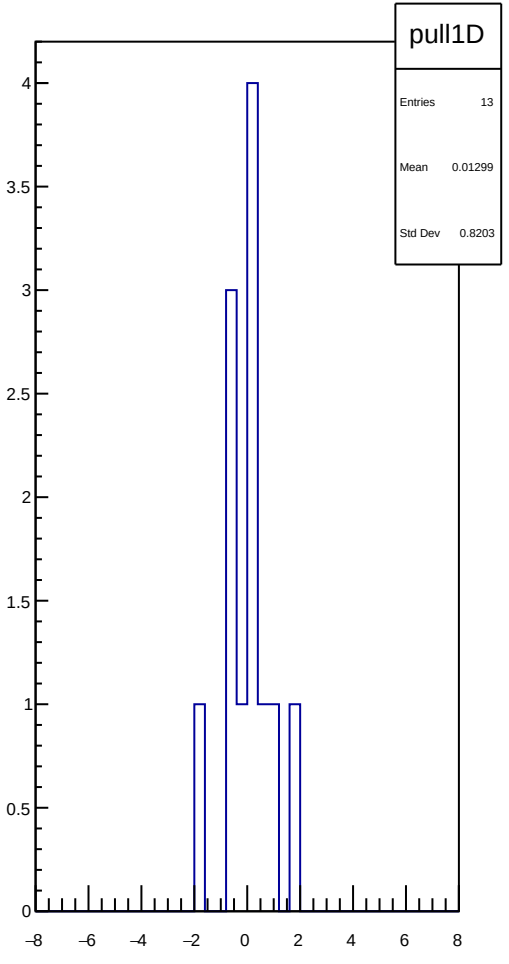

asym_bpm0i07WS_rms vs run
χ² / ndf 853.2 / 11
p0 249.8 ± 0.511
300
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

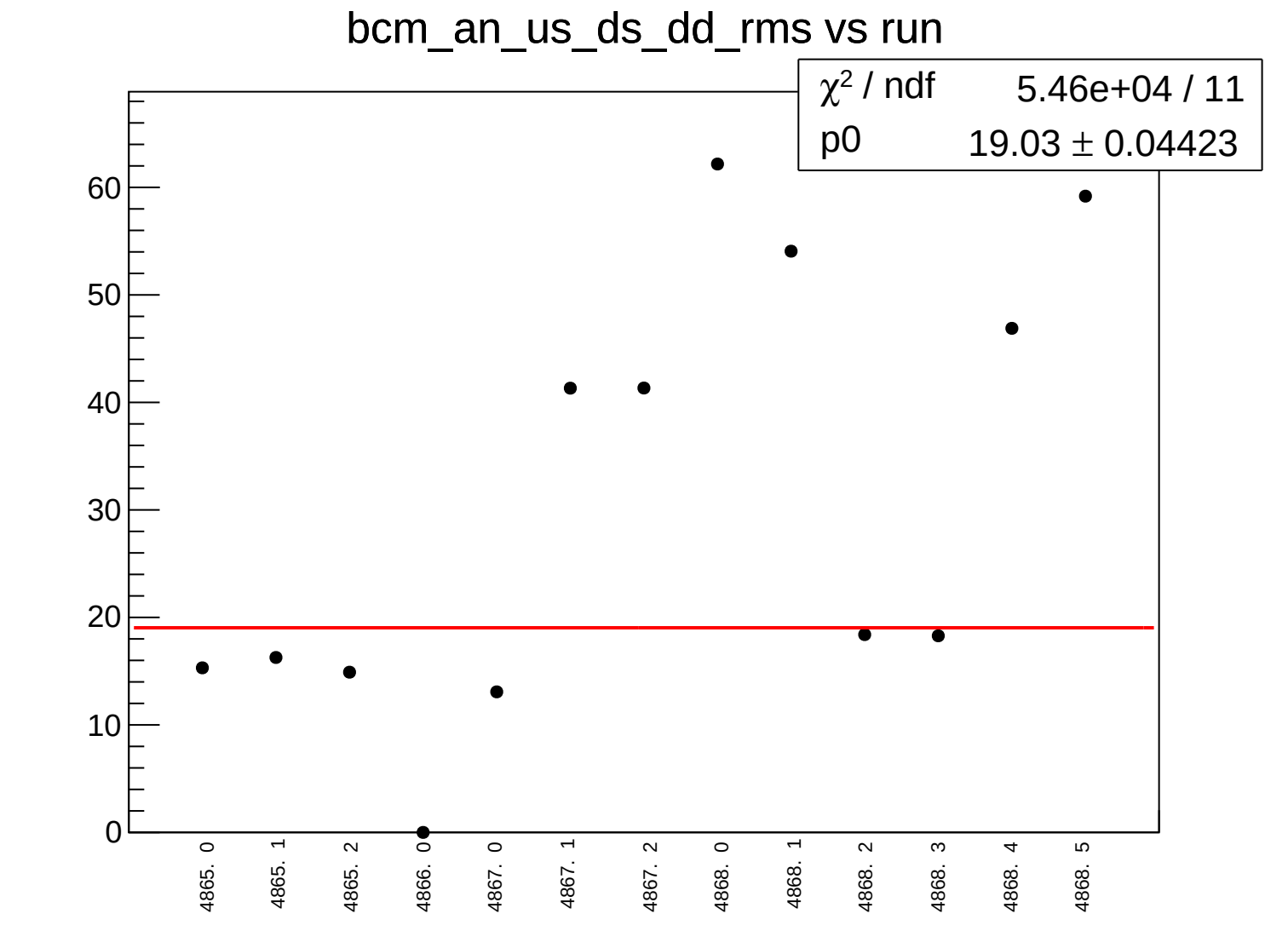

asym_bpm0l01WS_mean vs run
χ² / ndf 2.172 / 11
p0 −2759 ± 475.8
0
−1000
−2000
−3000
−4000
−5000
−6000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

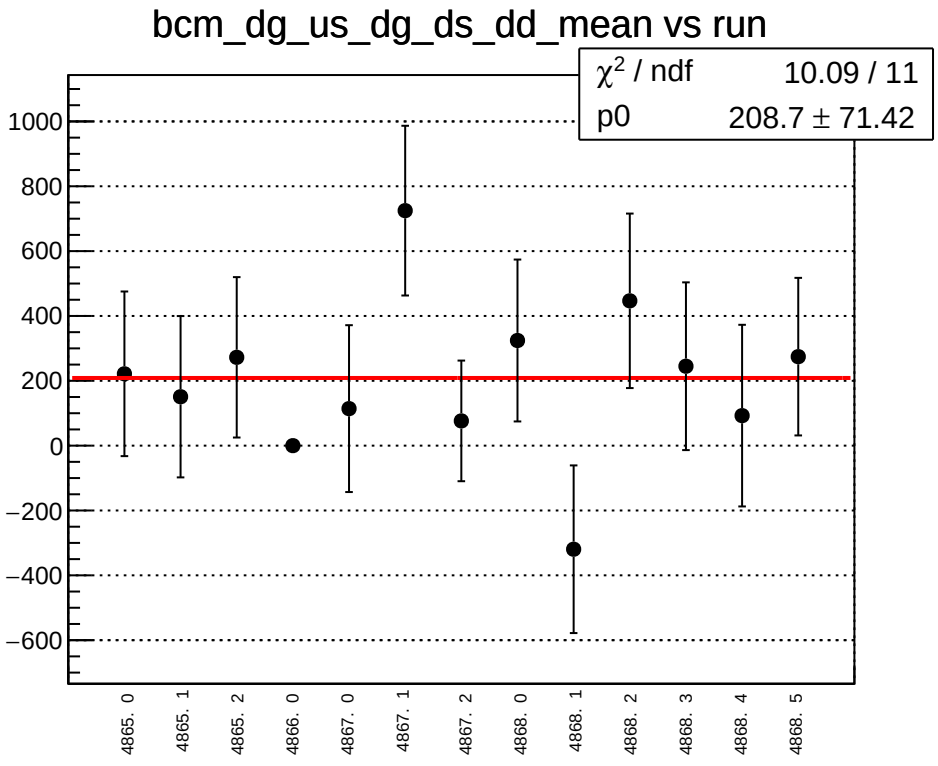

pull1D
Entries 13
Mean −0.01489
Std Dev 0.4252
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

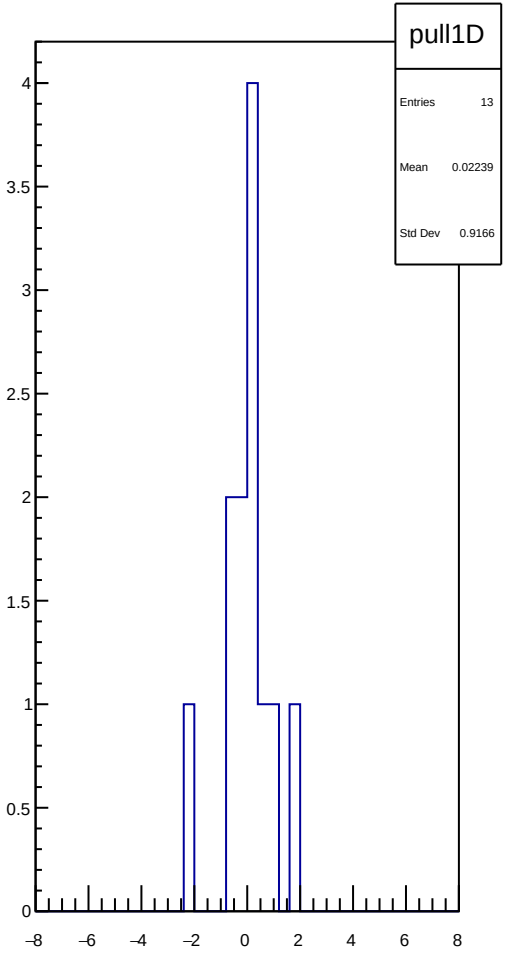

asym_bpm0l01WS_rms vs run
χ² / ndf 653 / 11
p0 164.6 ± 0.3365
200
180
160
140
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

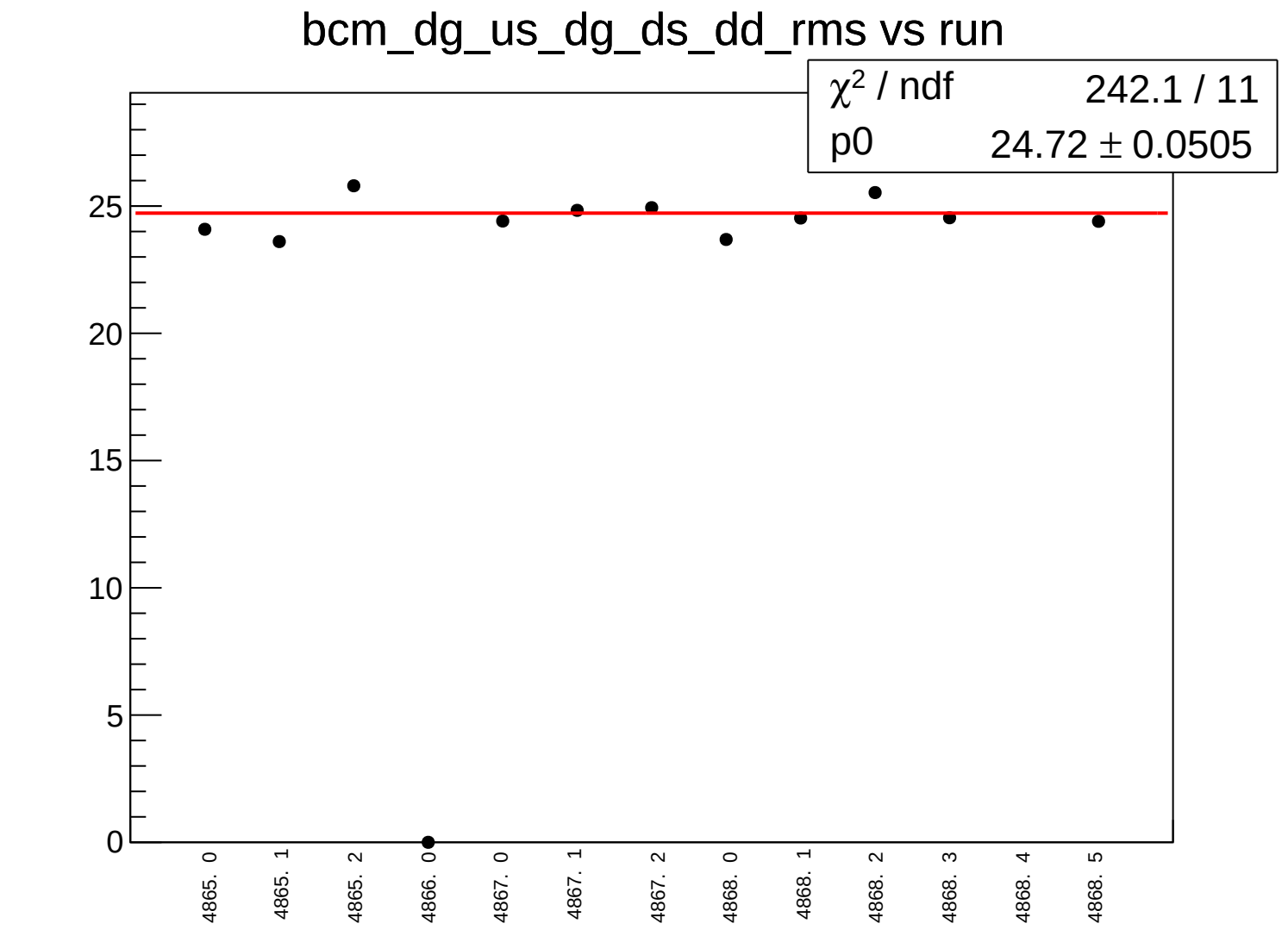

bcm_an_us_ds_dd_mean vs run
χ² / ndf 8.077 / 11
p0 23.6 ± 62.54
1500
1000
500
0
−500
−1000
−1500
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

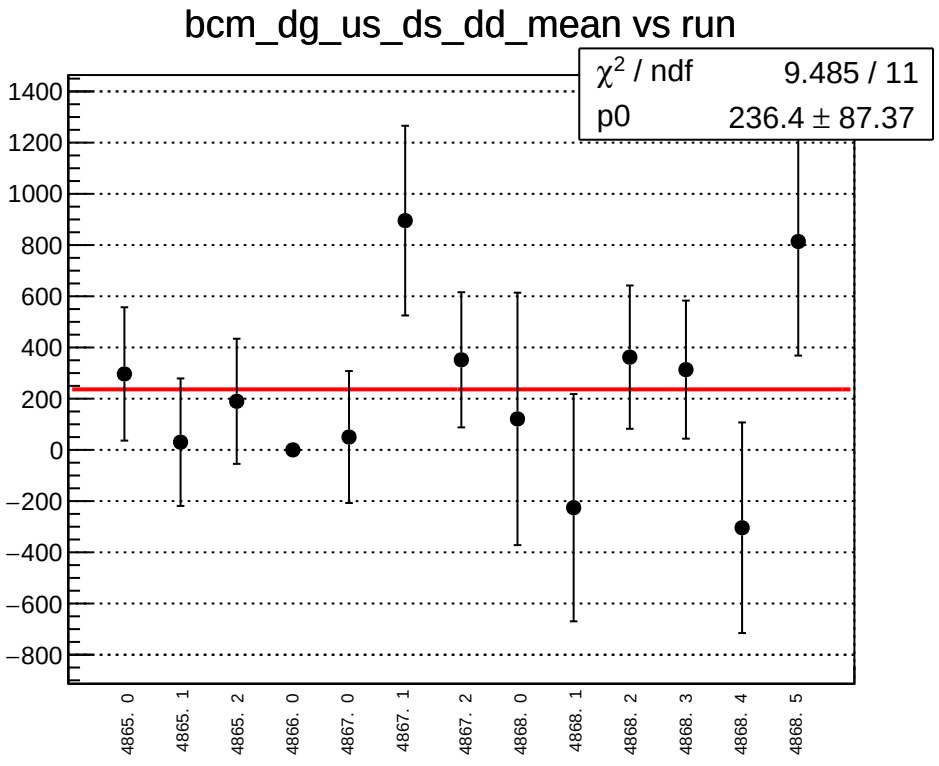

pull1D
Entries 13
Mean 0.01299
Std Dev 0.8203
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


bcm_an_us_ds_dd_rms vs run
χ² / ndf 5.46e+04 / 11
p0 19.03 ± 0.04423
60
50
40
30
20
10
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 10.09 / 11
p0 208.7 ± 71.42
1000
800
600
400
200
0
−200
−400
−600
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.02239
Std Dev 0.9166
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 242.1 / 11
p0 24.72 ± 0.0505
25
20
15
10
5
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


bcm_dg_us_ds_dd_mean vs run
χ² / ndf 9.485 / 11
p0 236.4 ± 87.37
1400
1200
1000
800
600
400
200
0
−200
−400
−600
−800
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
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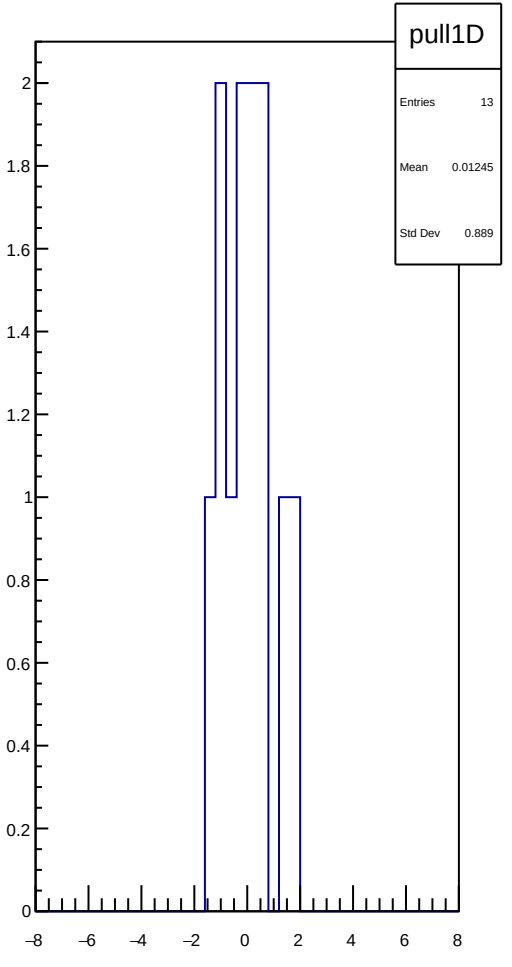
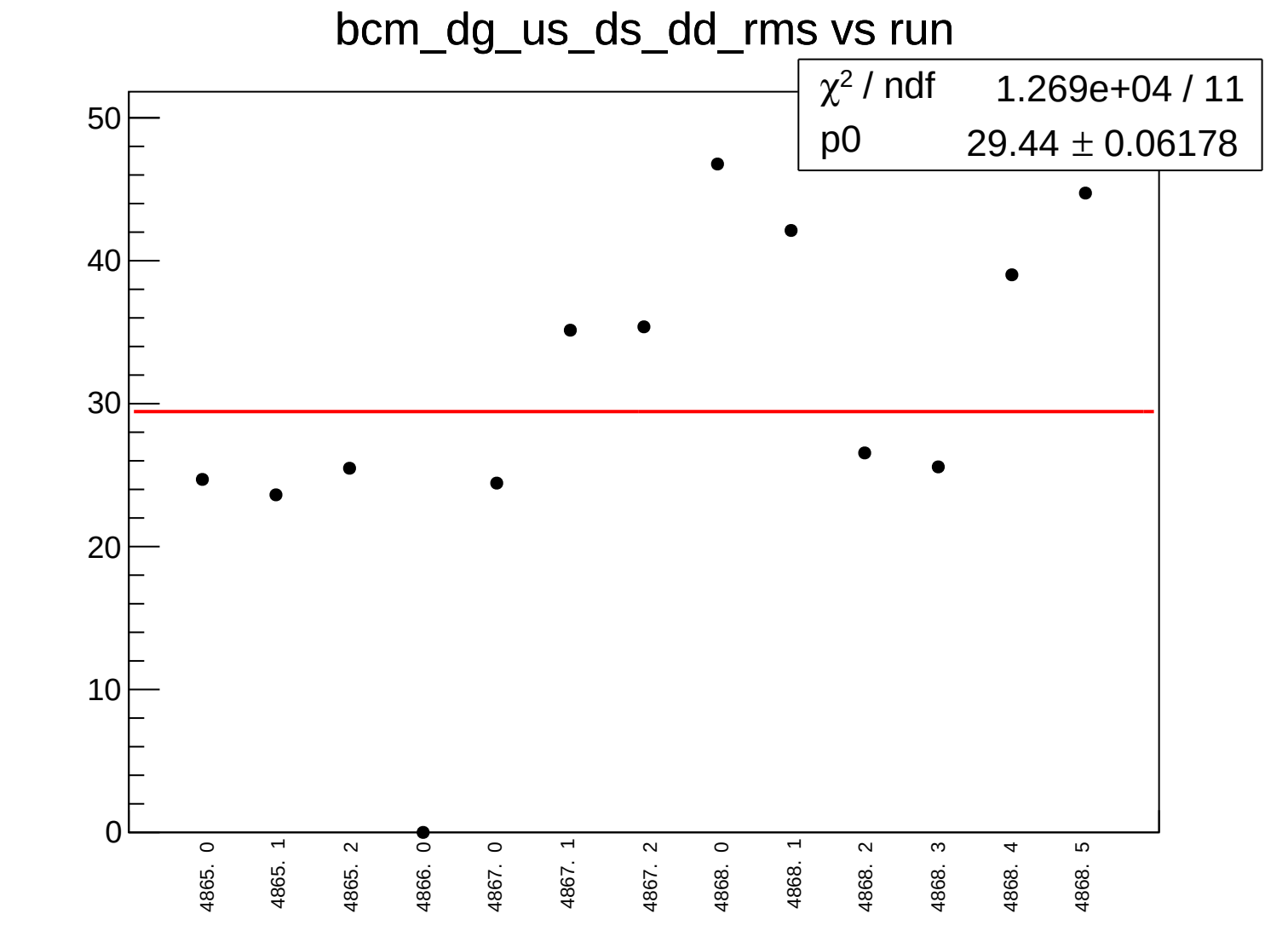
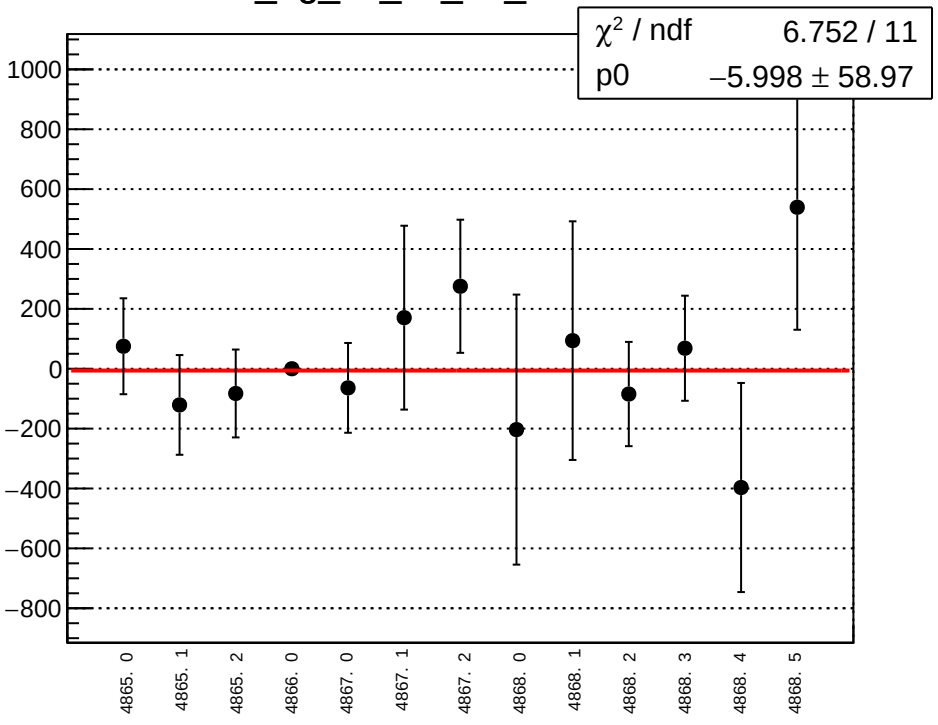
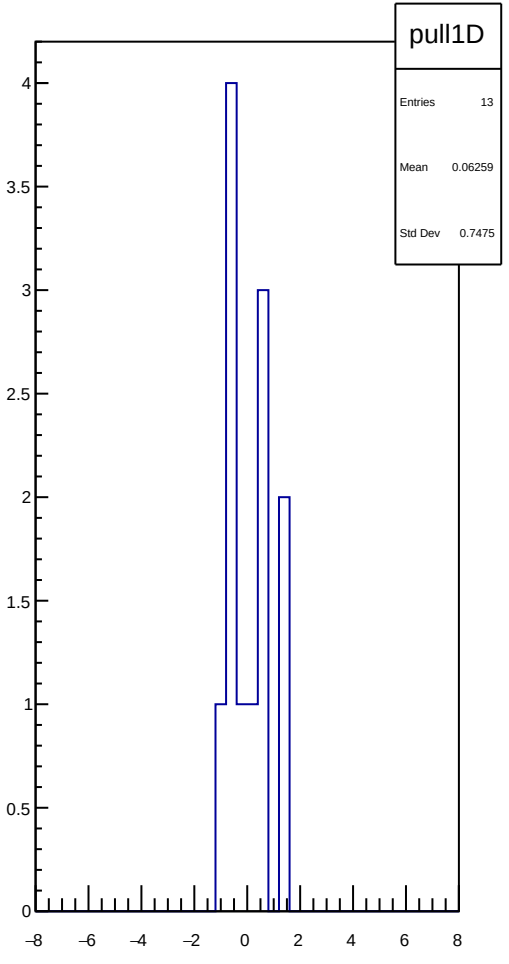
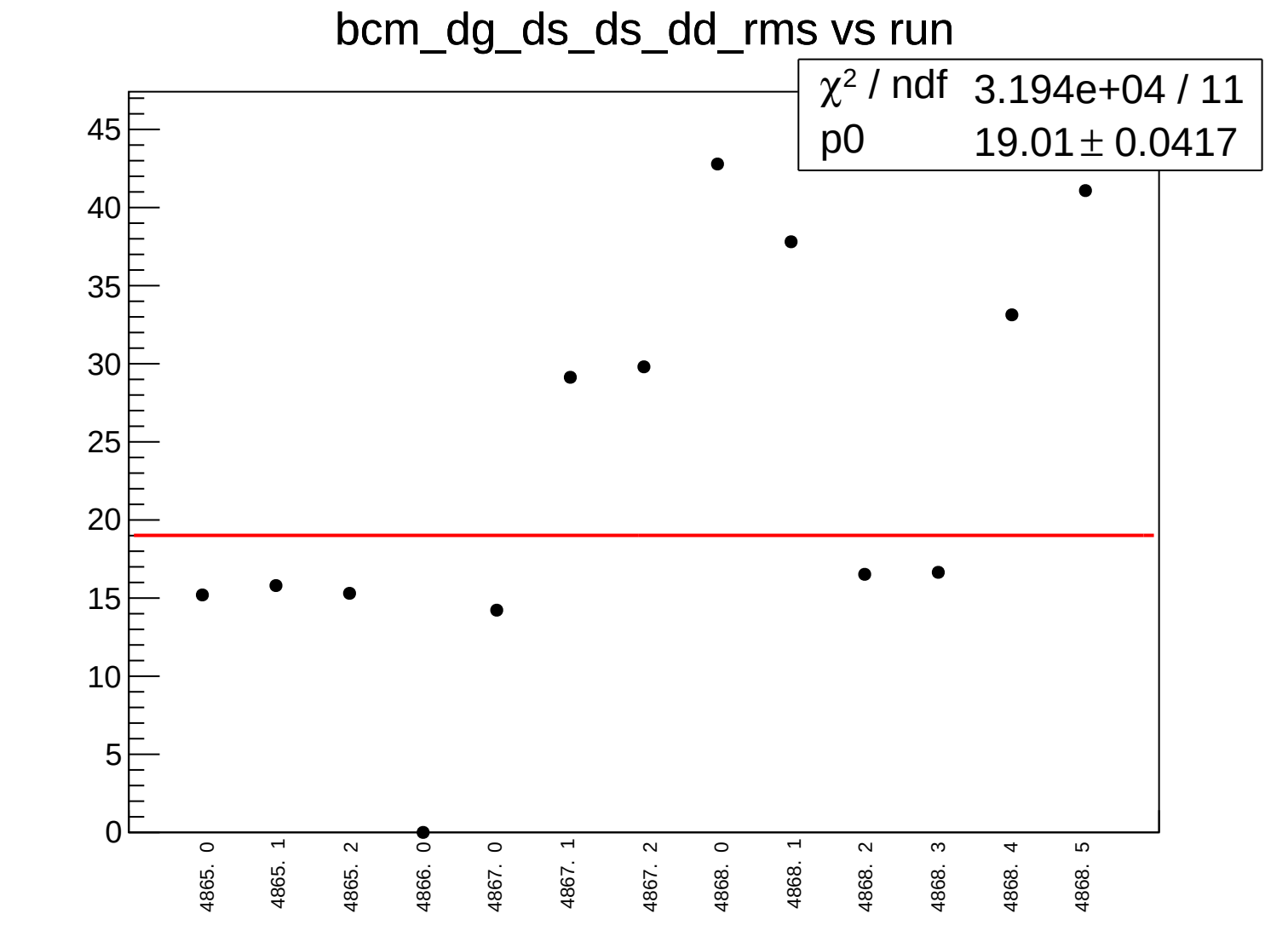
4868. 2
4868. 3
4868. 4
4868. 5

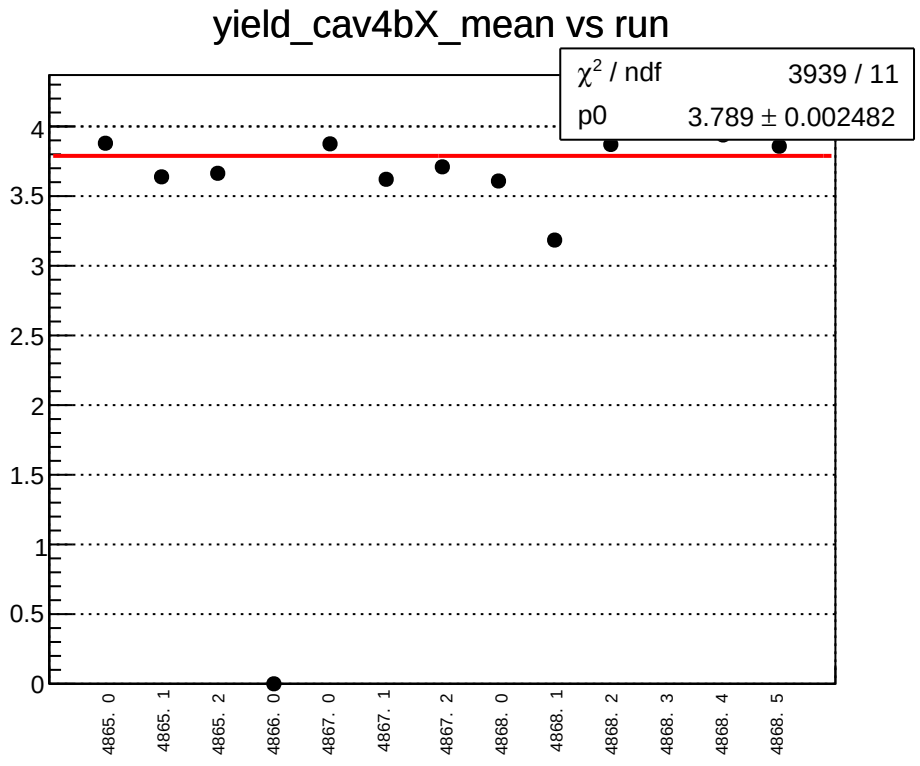

pull1D
Entries 13
Mean 0.01245
Std Dev 0.889
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


bcm_dg_us_ds_dd_rms vs run
χ² / ndf 1.269e+04 / 11
p0 29.44 ± 0.06178
50
40
30
20
10
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


bcm_dg_ds_ds_dd_mean vs run
χ² / ndf 6.752 / 11
p0 −5.998 ± 58.97
1000
800
600
400
200
0
−200
−400
−600
−800
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.06259
Std Dev 0.7475
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


bcm_dg_ds_ds_dd_rms vs run
χ² / ndf 3.194e+04 / 11
p0 19.01 ± 0.0417
45
40
35
30
25
20
15
10
5
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


yield_cav4bX_mean vs run
χ² / ndf 3939 / 11
p0 3.789 ± 0.002482
4
3.5
3
2.5
2
1.5
1
0.5
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
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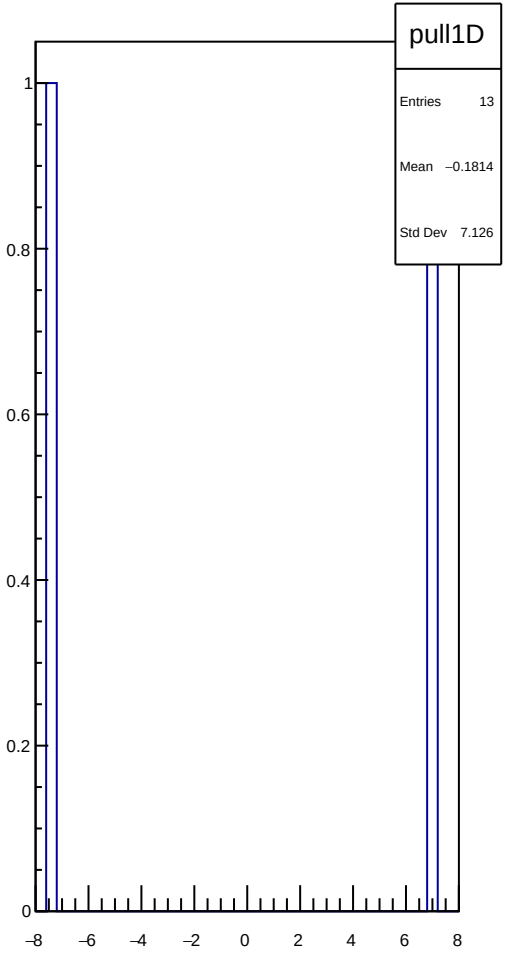
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.1814
Std Dev 7.126
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
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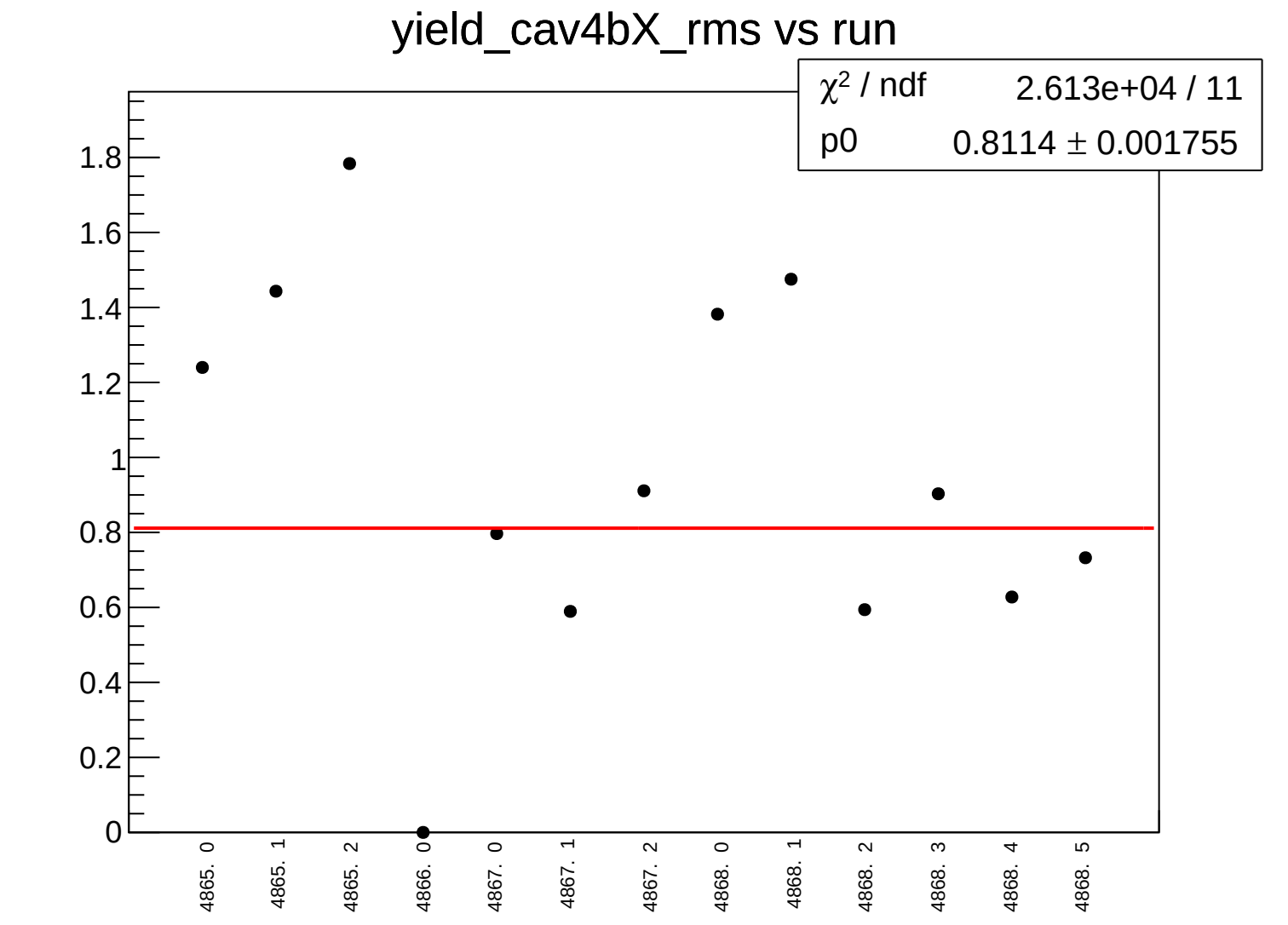
0
2
4
6
8


yield_cav4bX_rms vs run
χ² / ndf 2.613e+04 / 11
p0 0.8114 ± 0.001755
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
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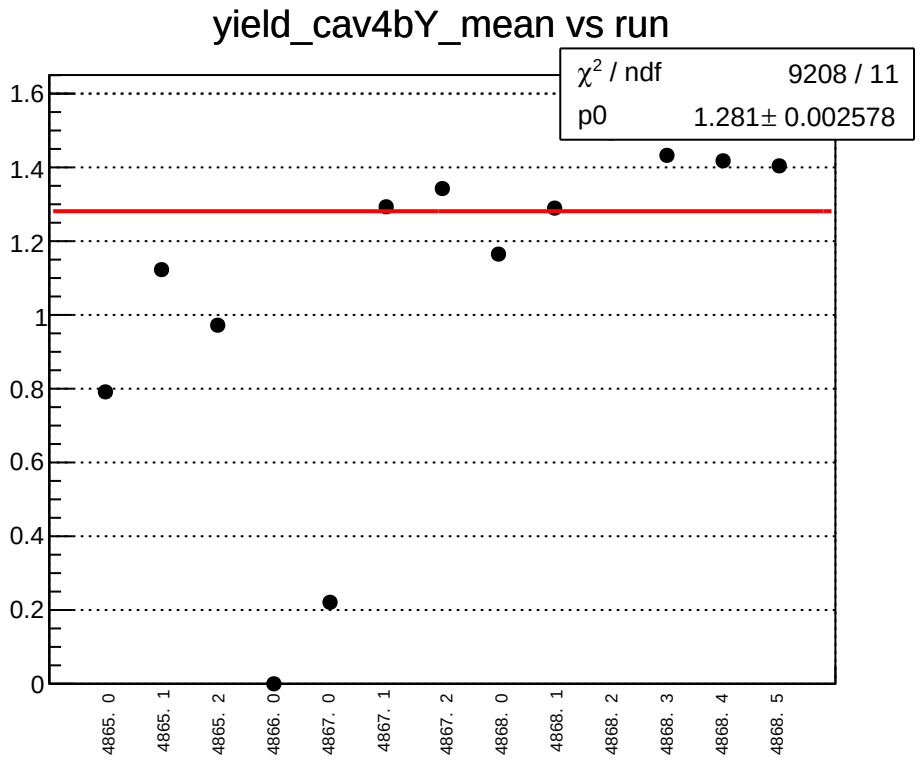
4868. 4
4868. 5


yield_cav4bY_mean vs run
χ² / ndf 9208 / 11
p0 1.281± 0.002578
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
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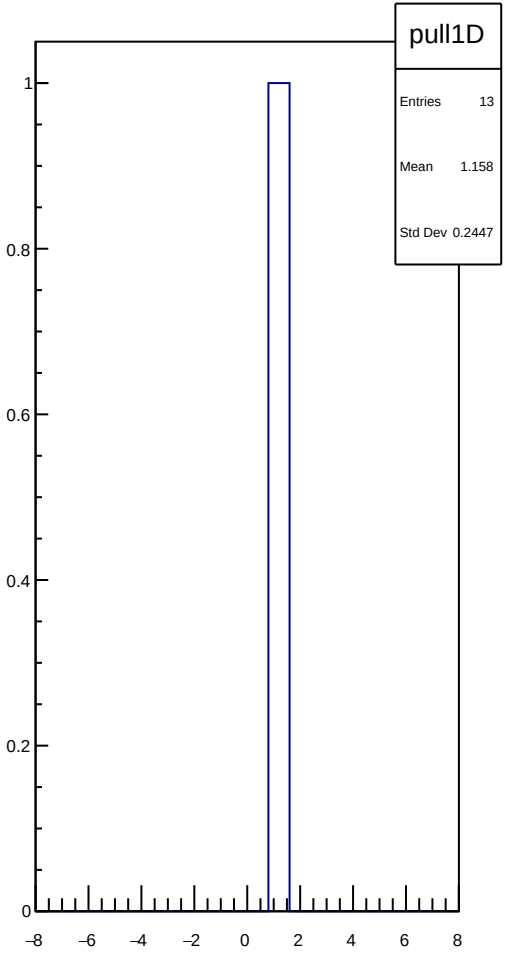
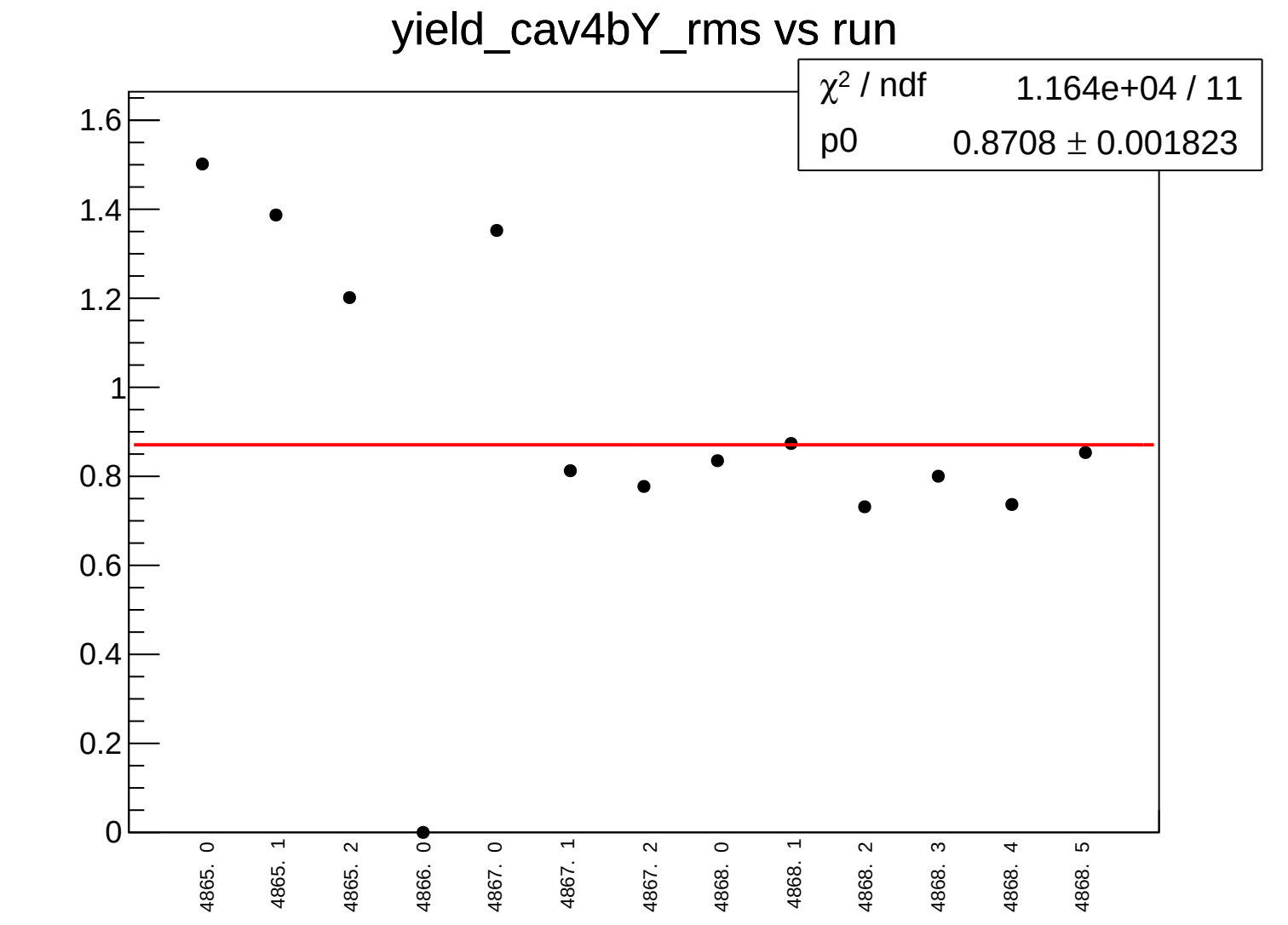
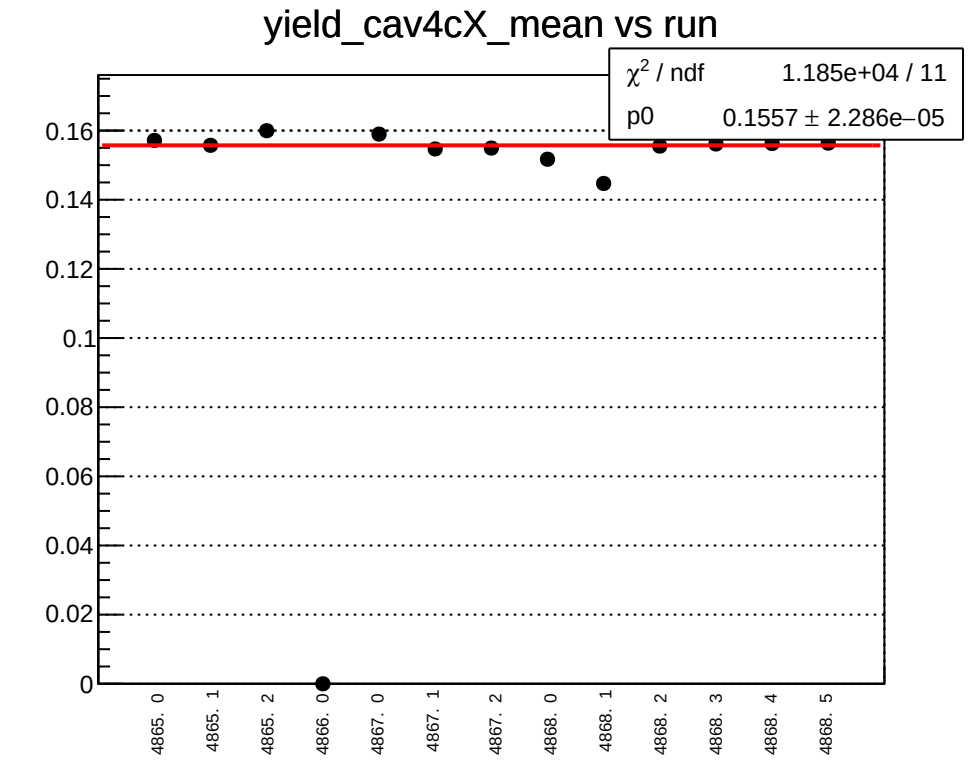
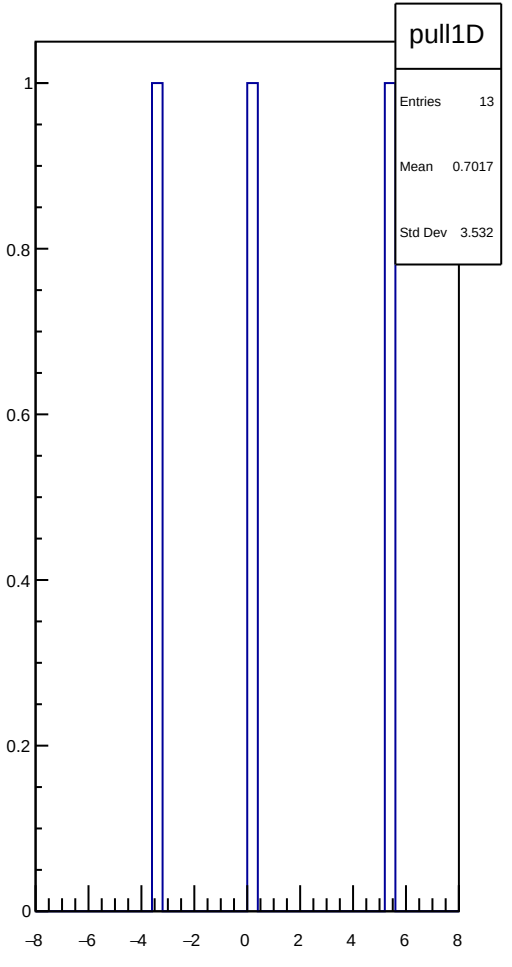
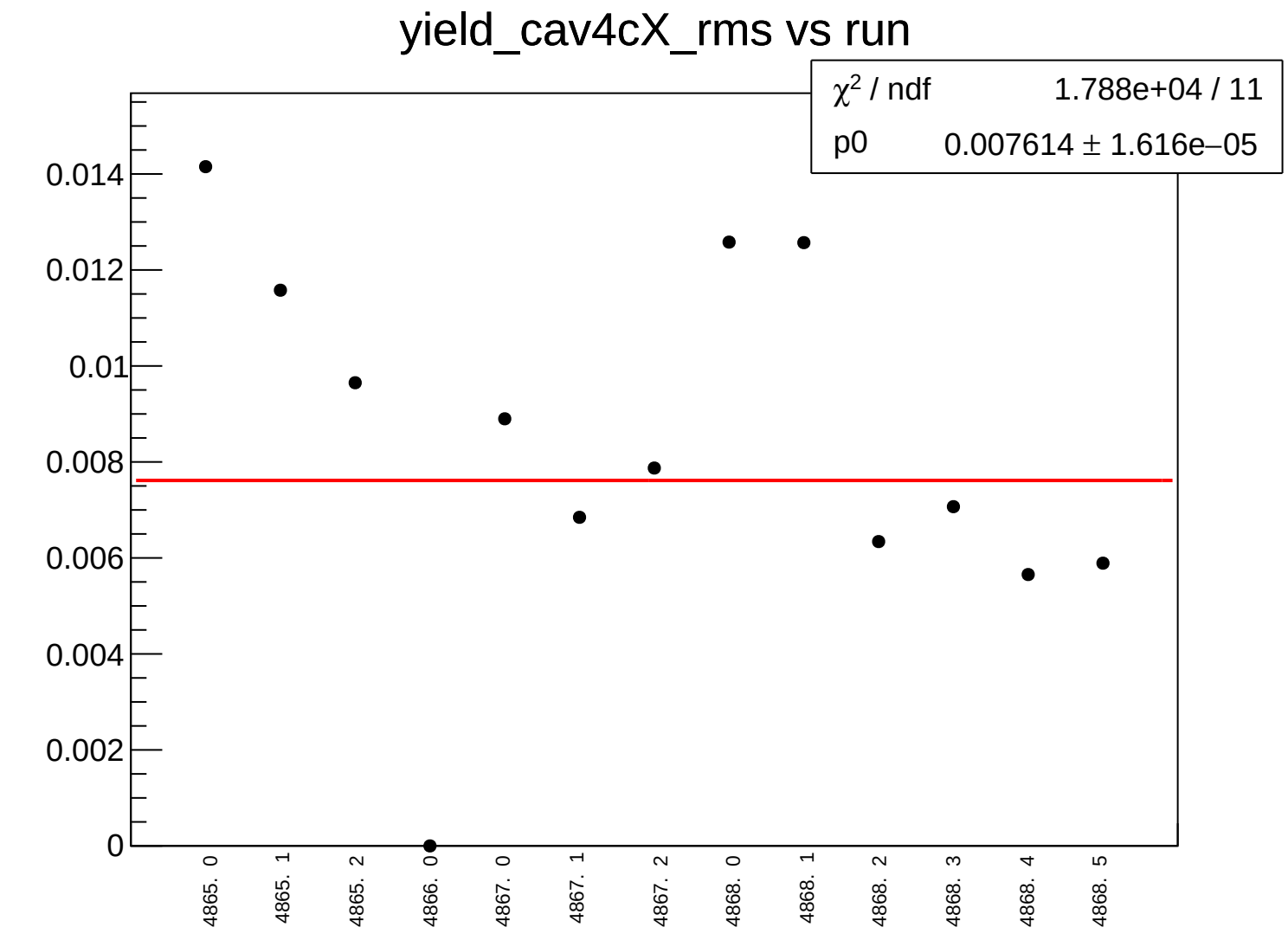
4868. 4
4868. 5

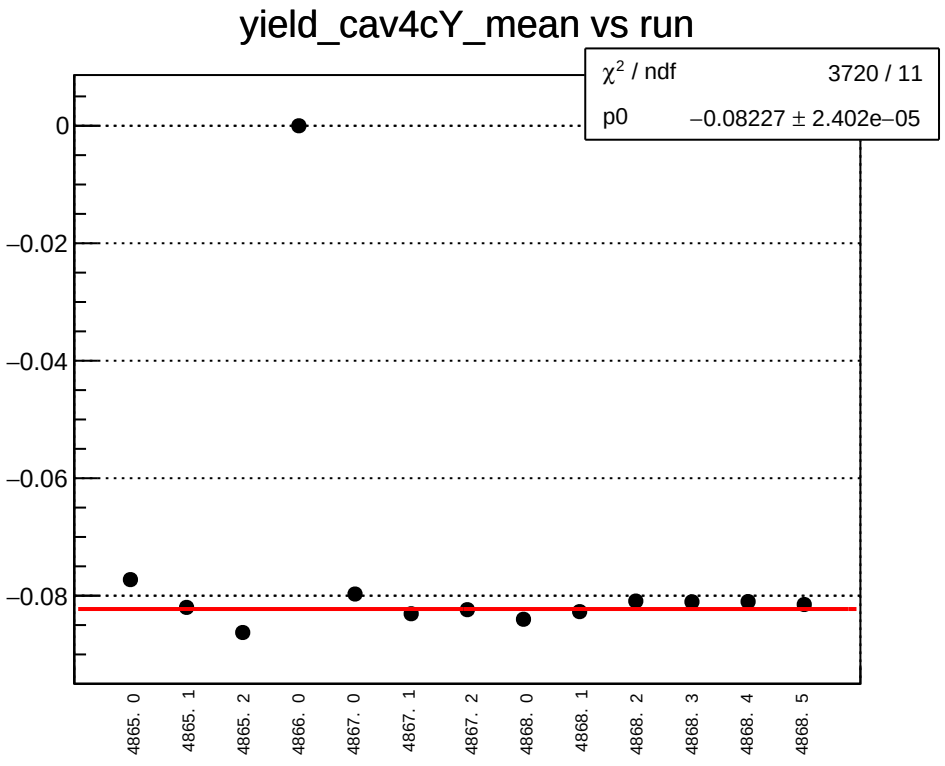

pull1D
Entries 13
Mean 1.158
Std Dev 0.2447
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

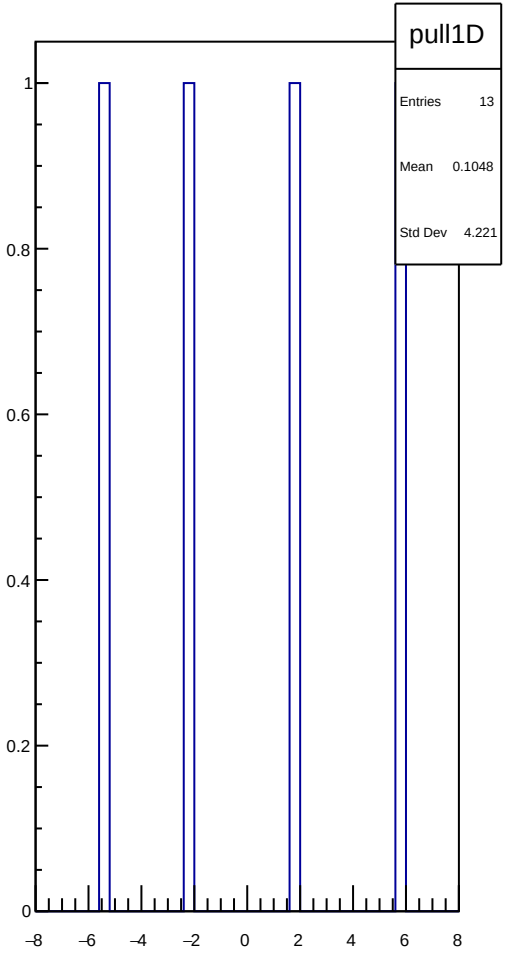

yield_cav4bY_rms vs run
χ² / ndf 1.164e+04 / 11
p0 0.8708 ± 0.001823
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

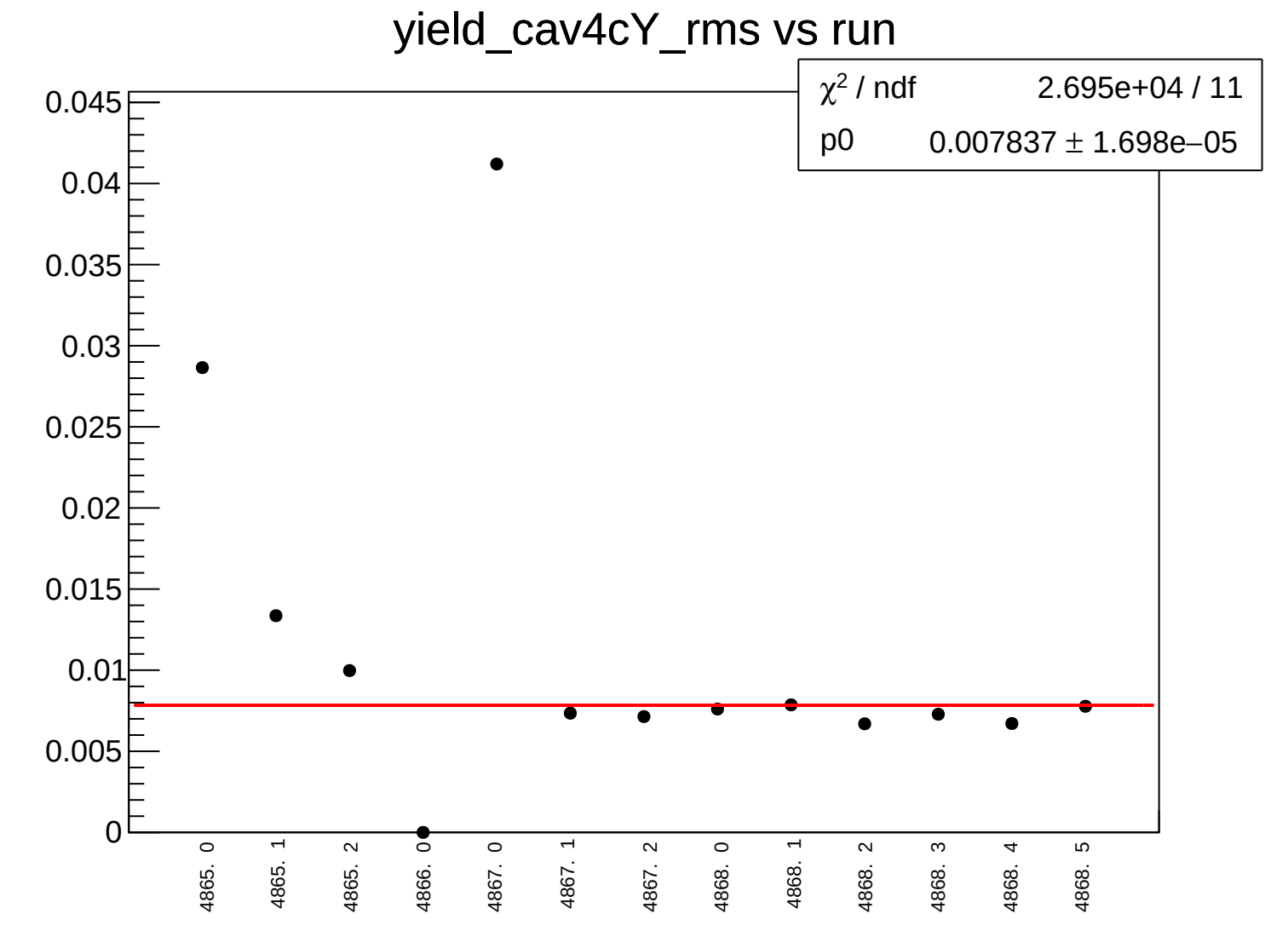

yield_cav4cX_mean vs run
χ² / ndf 1.185e+04 / 11
p0 0.1557 ± 2.286e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

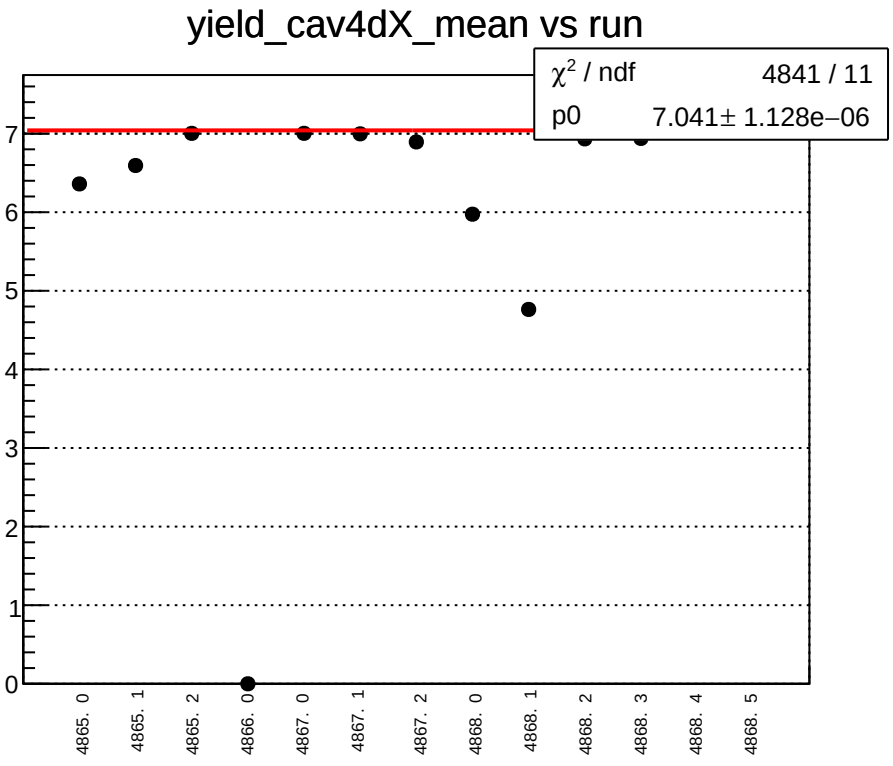

pull1D
Entries 13
Mean 0.7017
Std Dev 3.532
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

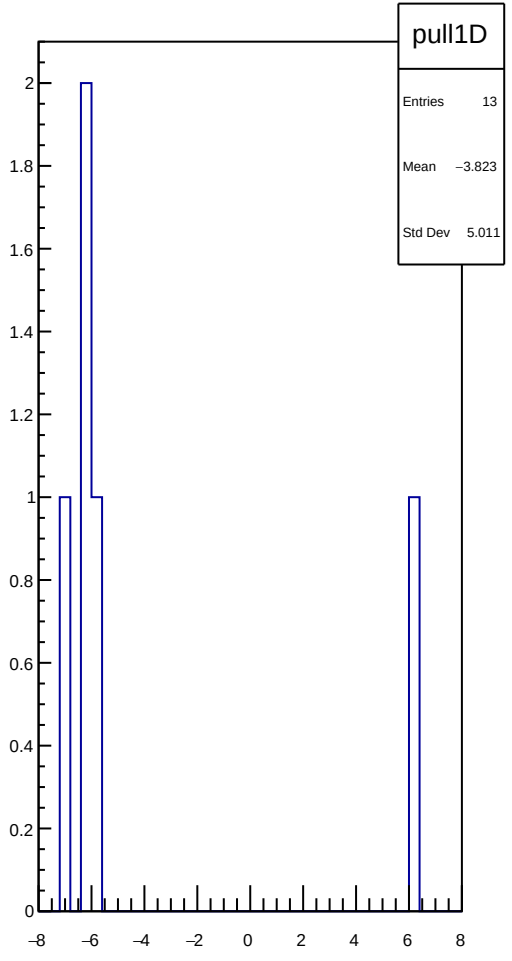

yield_cav4cX_rms vs run
χ² / ndf 1.788e+04 / 11
p0 0.007614 ± 1.616e−05
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

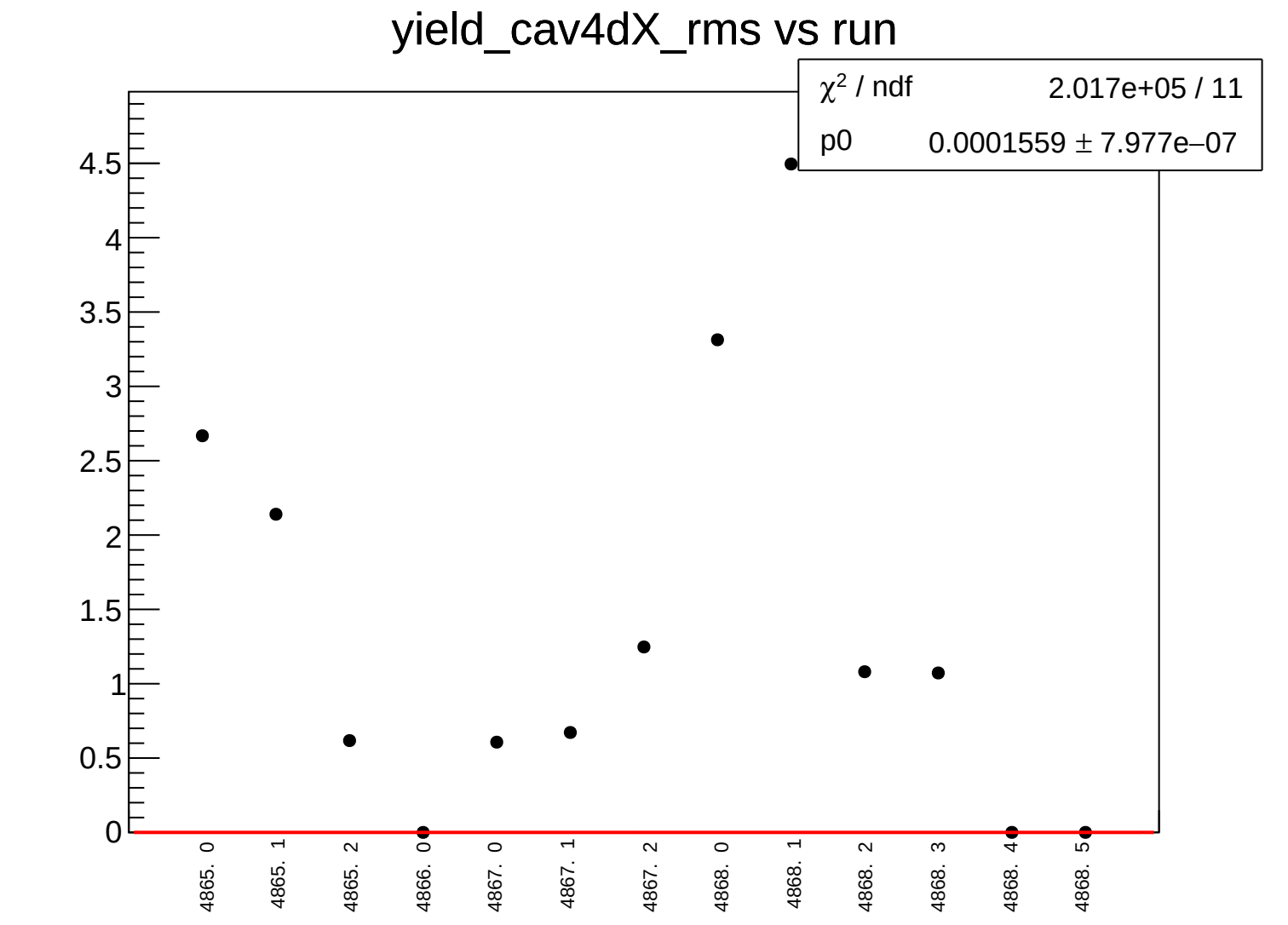

yield_cav4cY_mean vs run
χ² / ndf 3720 / 11
p0 −0.08227 ± 2.402e−05
0
−0.02
−0.04
−0.06
−0.08
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

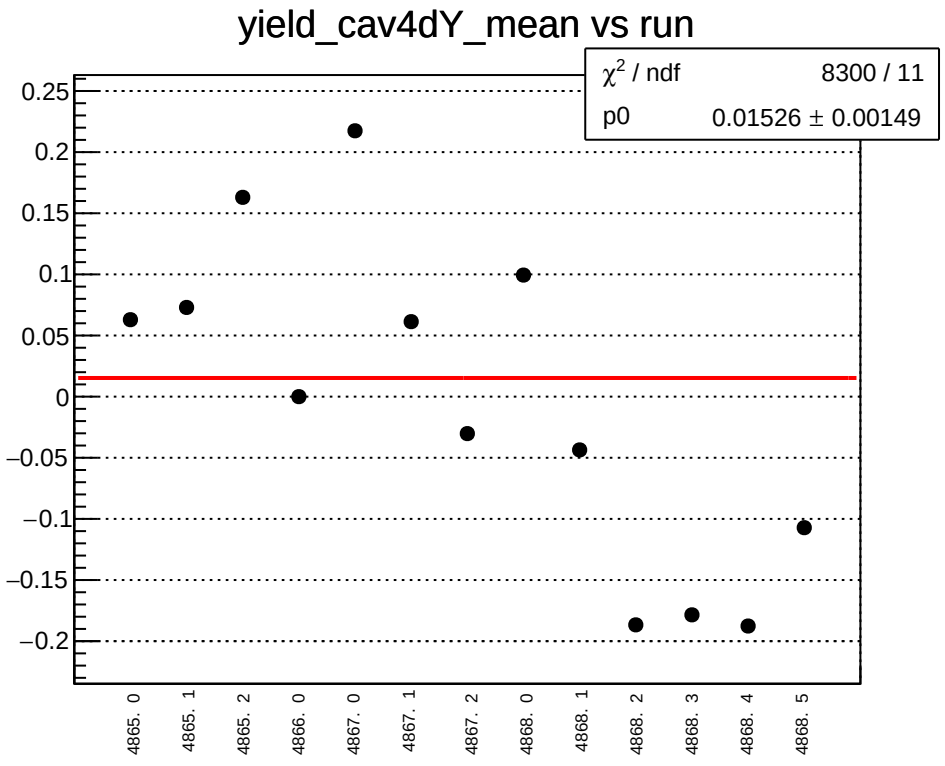

pull1D
Entries 13
Mean 0.1048
Std Dev 4.221
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

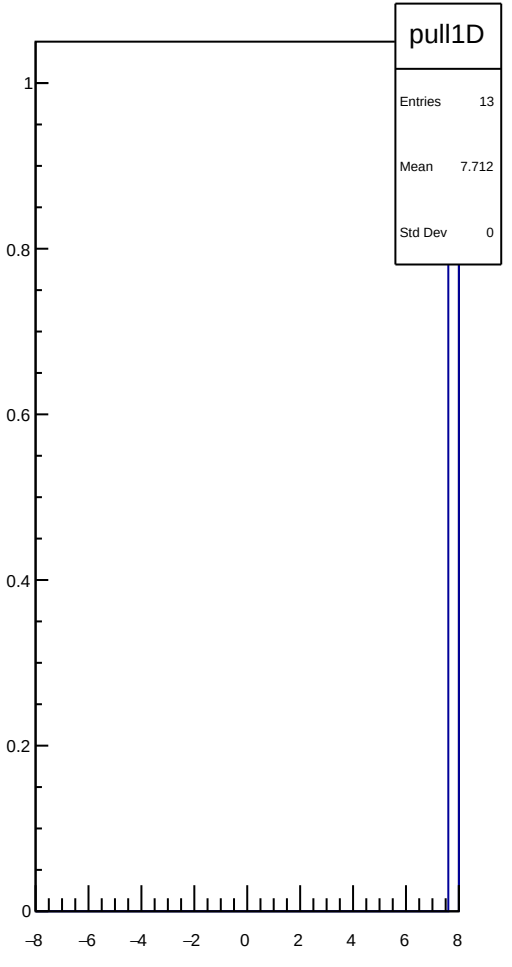

yield_cav4cY_rms vs run
χ² / ndf 2.695e+04 / 11
p0 0.007837 ± 1.698e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

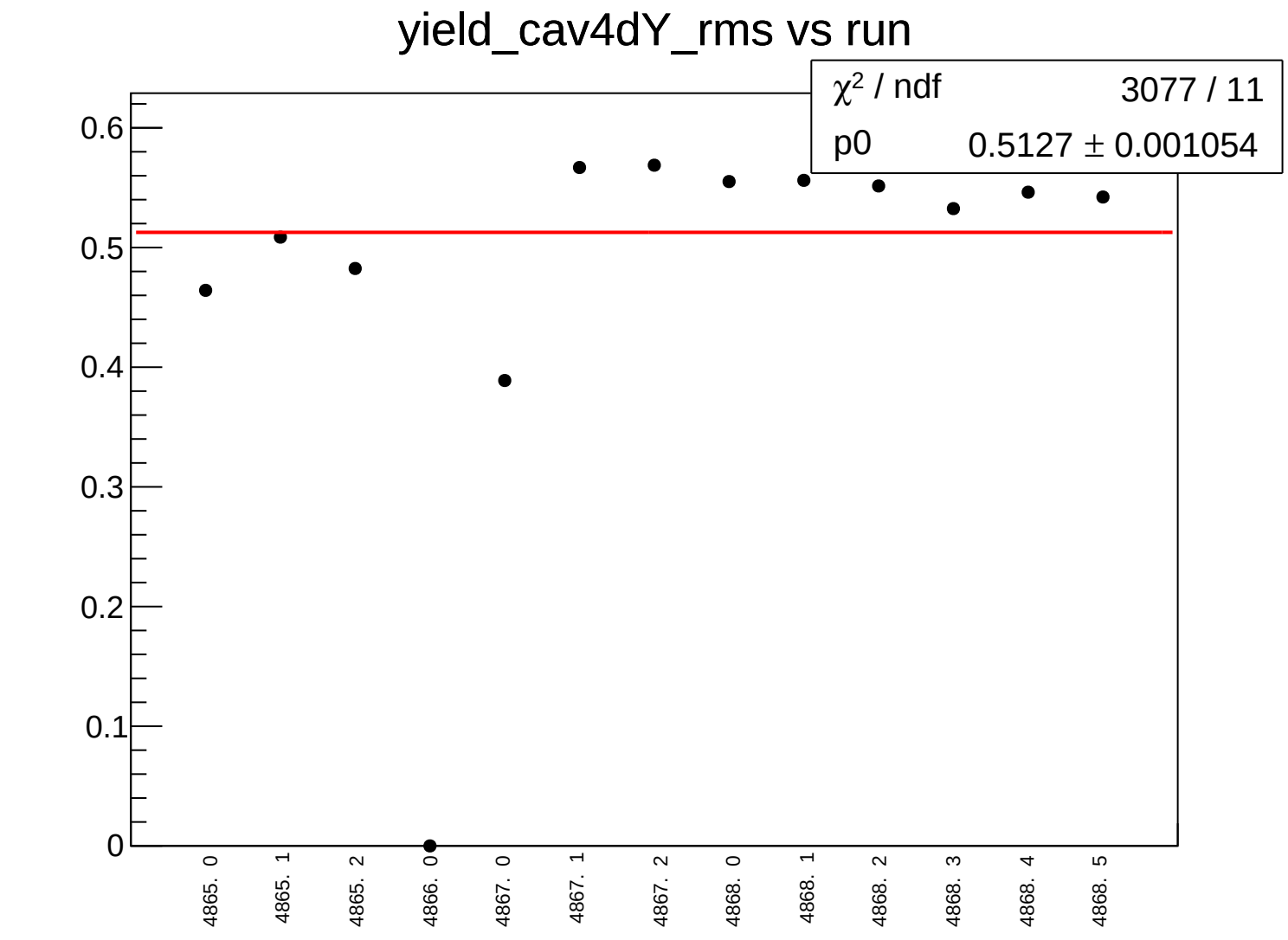

yield_cav4dX_mean vs run
χ² / ndf 4841 / 11
p0 7.041± 1.128e−06
0
1
2
3
4
5
6
7
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

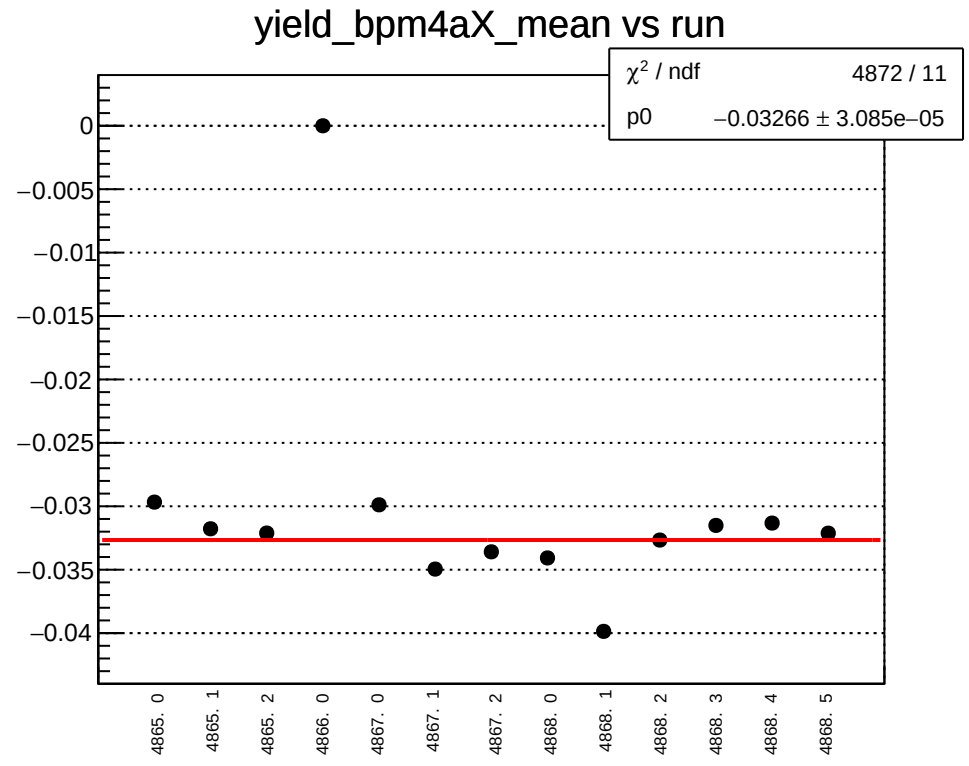

pull1D
Entries 13
Mean −3.823
Std Dev 5.011
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
−8
−6
−4
−2
0
2
4
6
8

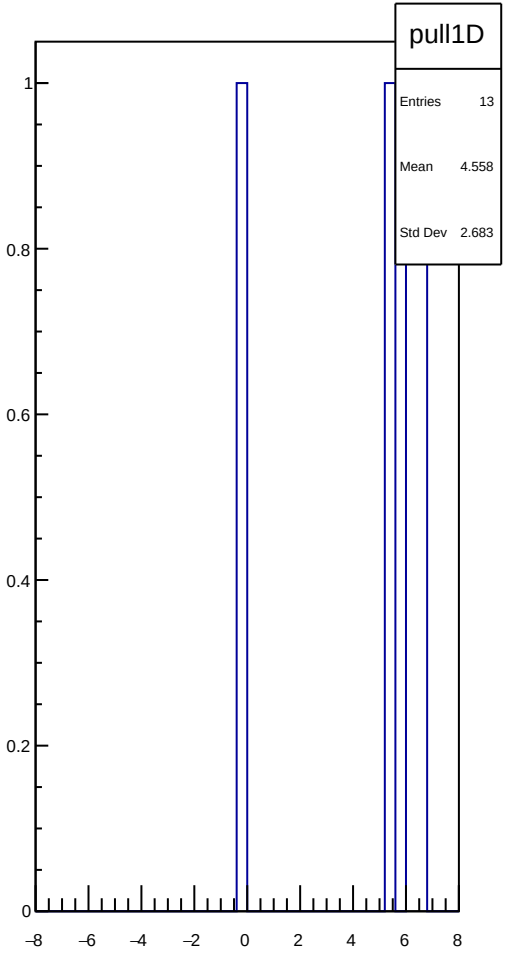

yield_cav4dX_rms vs run
χ² / ndf 2.017e+05 / 11
p0 0.0001559 ± 7.977e−07
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

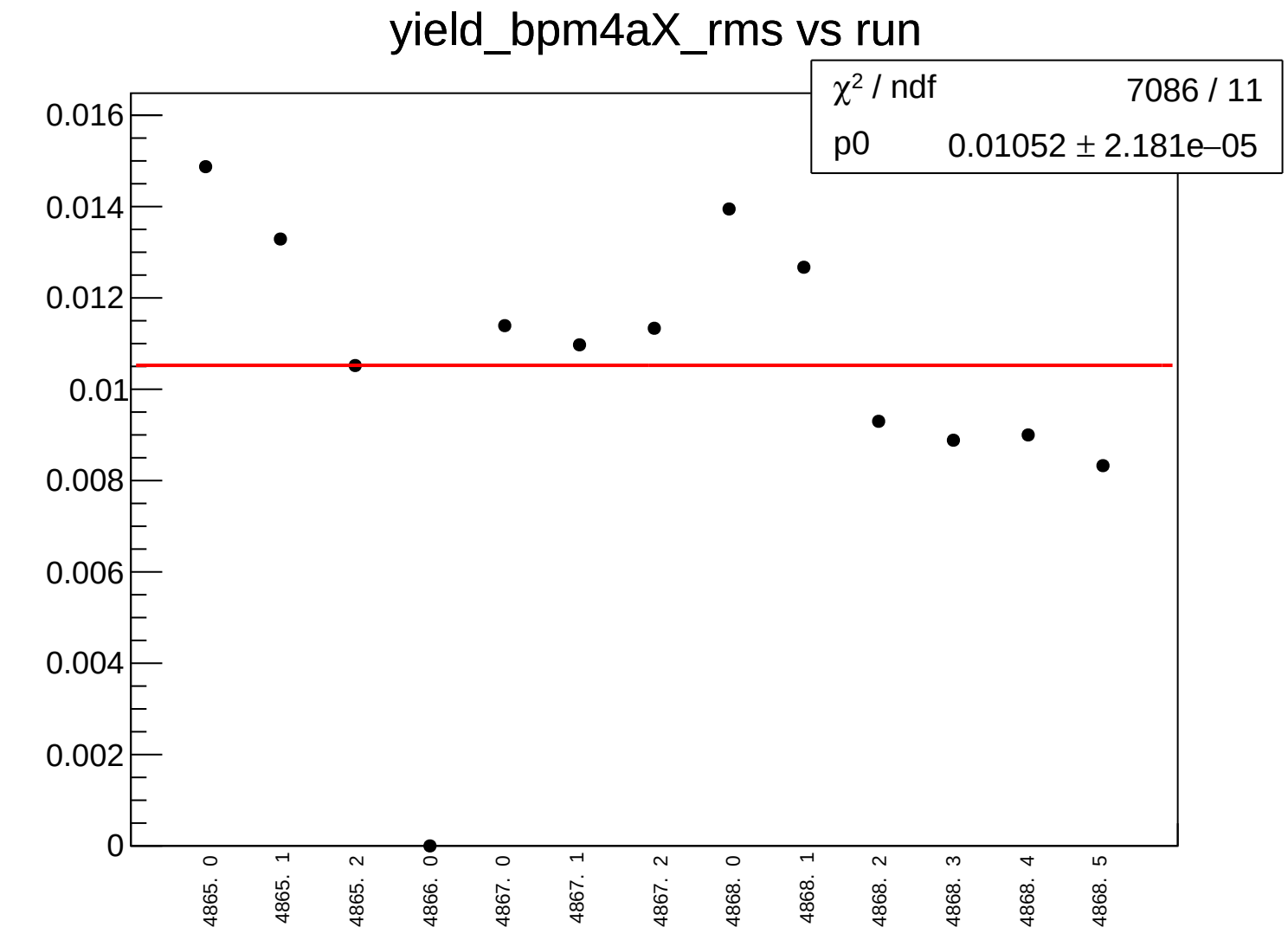

yield_cav4dY_mean vs run
χ² / ndf 8300 / 11
p0 0.01526 ± 0.00149
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 7.712
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 3077 / 11
p0 0.5127 ± 0.001054
0.6
0.5
0.4
0.3
0.2
0.1
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


yield_bpm4aX_mean vs run
χ² / ndf 4872 / 11
p0 −0.03266 ± 3.085e−05
0
−0.005
−0.01
−0.015
−0.02
−0.025
−0.03
−0.035
−0.04
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 4.558
Std Dev 2.683
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm4aX_rms vs run
χ² / ndf 7086 / 11
p0 0.01052 ± 2.181e–05
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
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4868. 2
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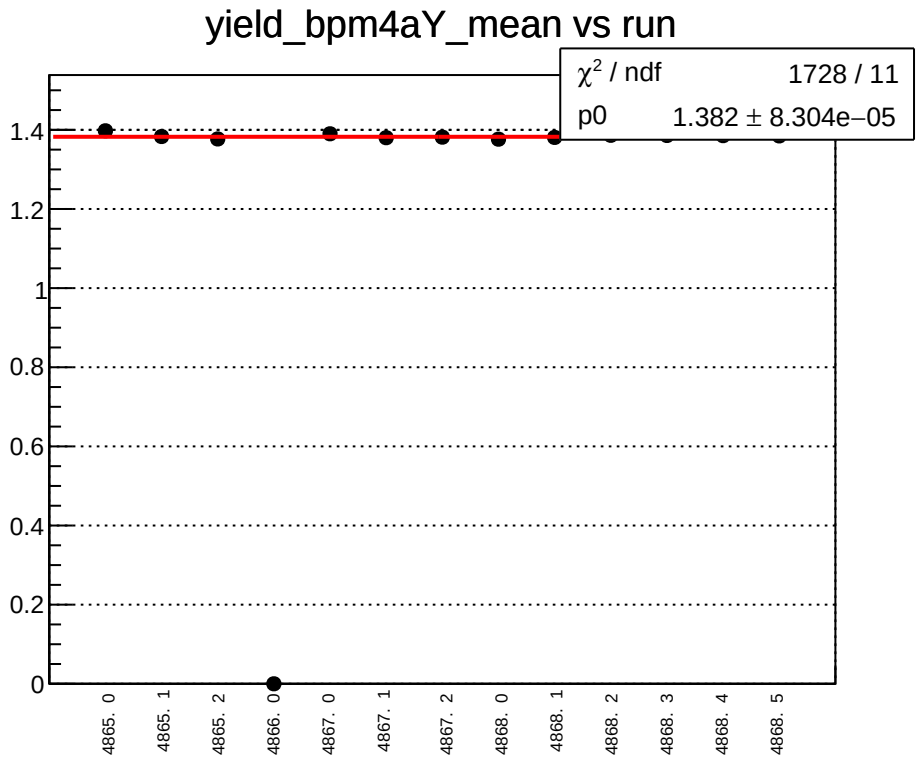
4868. 4
4868. 5


yield_bpm4aY_mean vs run
χ² / ndf 1728 / 11
p0 1.382 ± 8.304e−05
1.4
1.2
1
0.8
0.6
0.4
0.2
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
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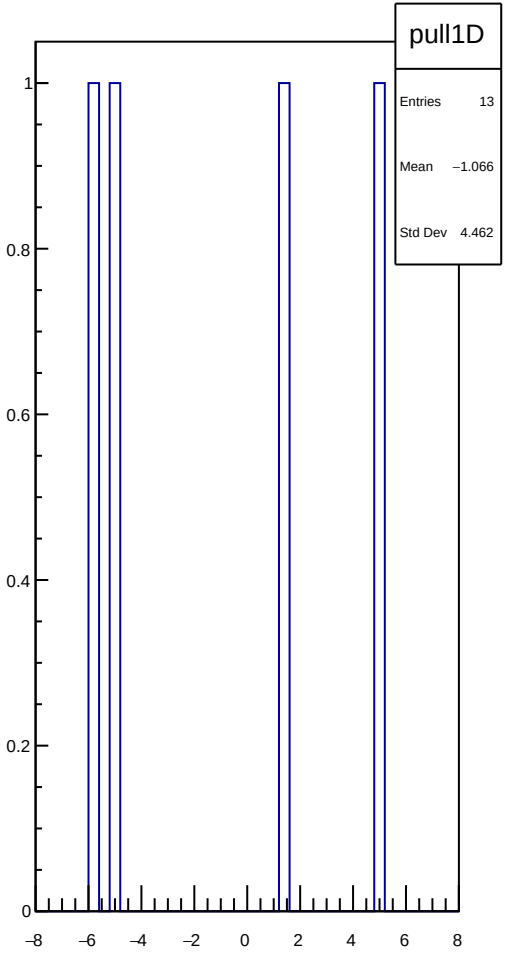
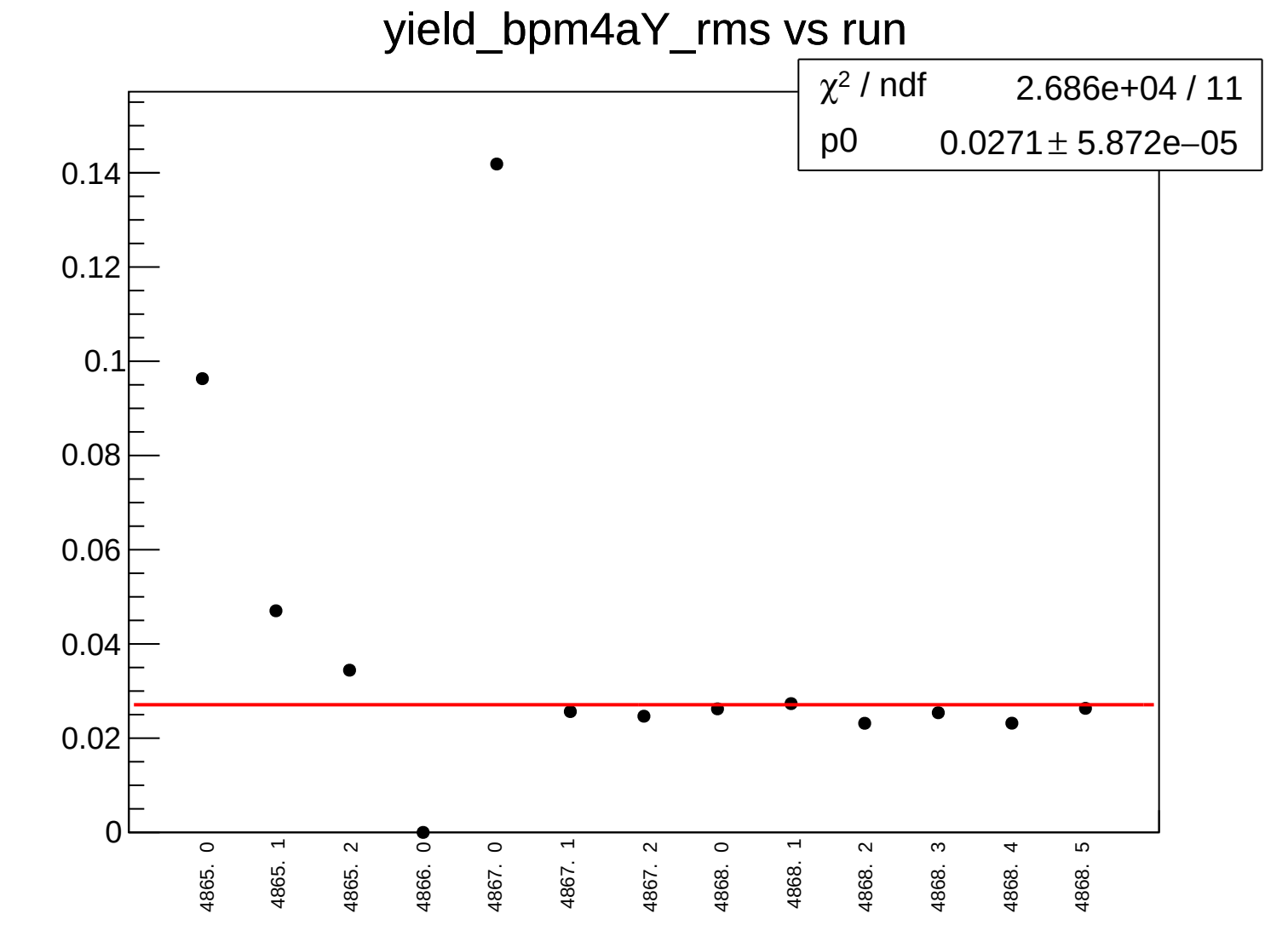
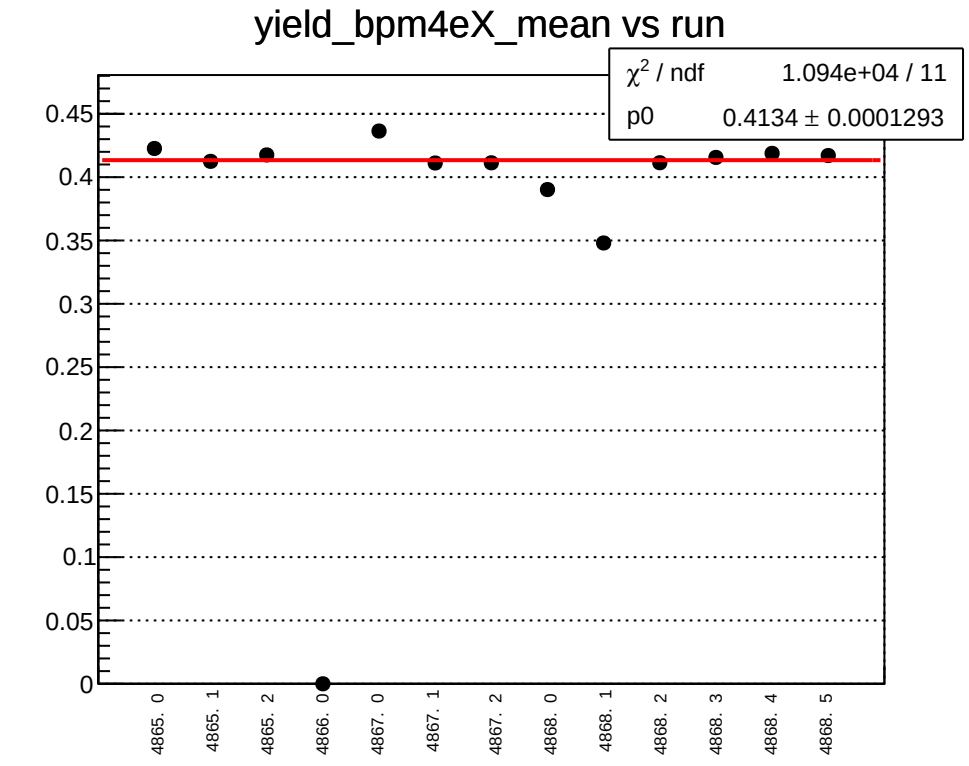
4868. 4
4868. 5


pull1D
Entries 13
Mean −1.066
Std Dev 4.462
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm4aY_rms vs run
χ² / ndf 2.686e+04 / 11
p0 0.0271 ± 5.872e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


yield_bpm4eX_mean vs run
χ² / ndf 1.094e+04 / 11
p0 0.4134 ± 0.0001293
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
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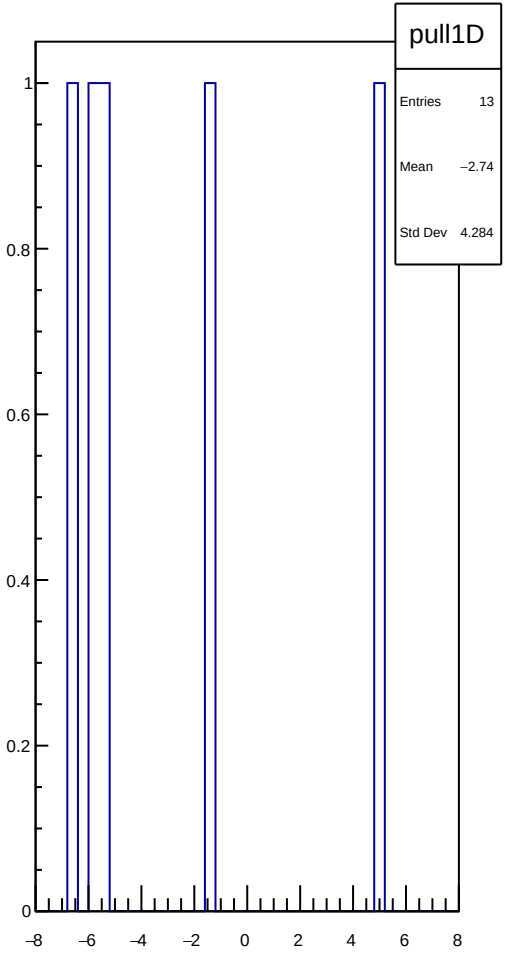
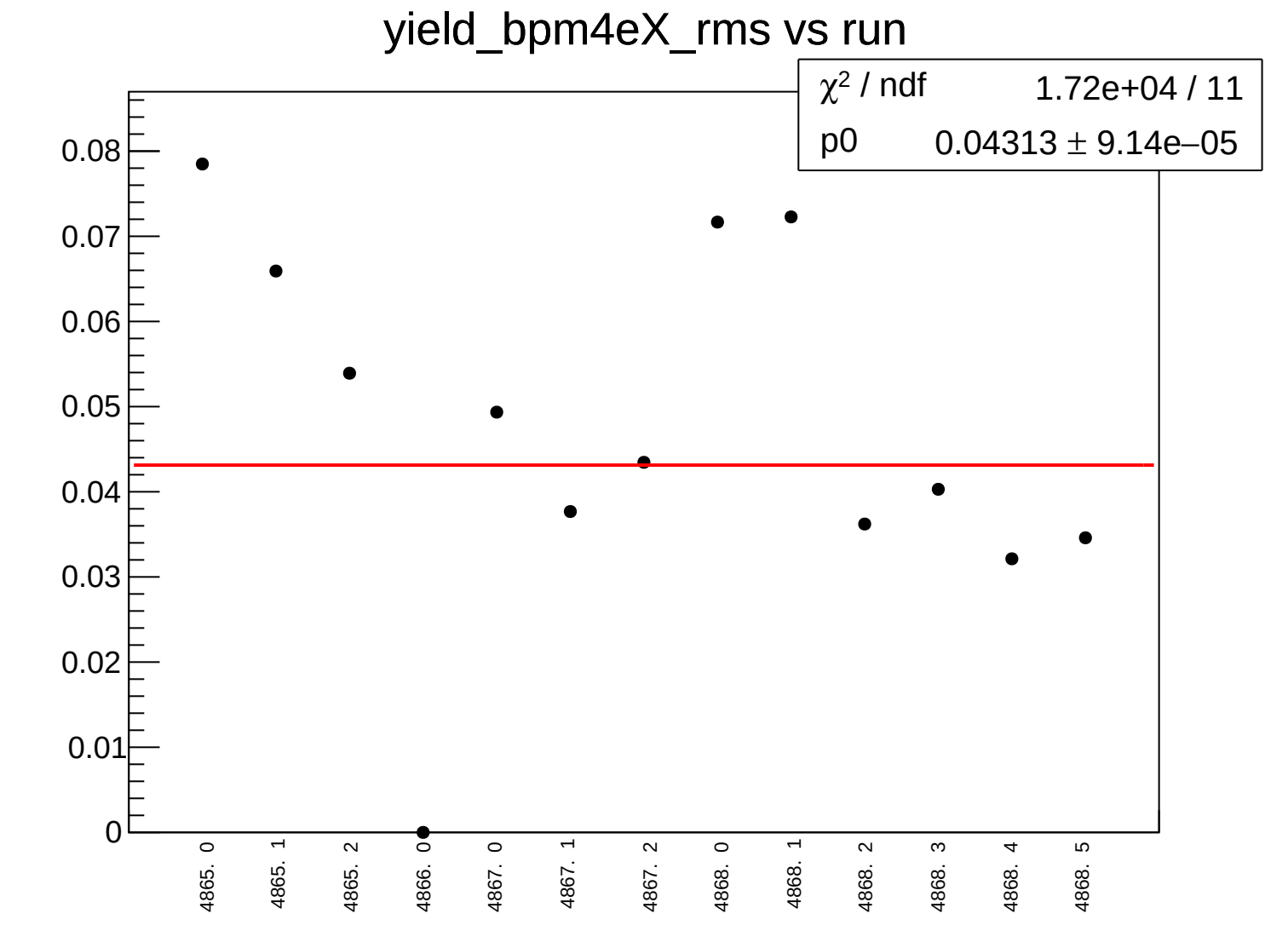
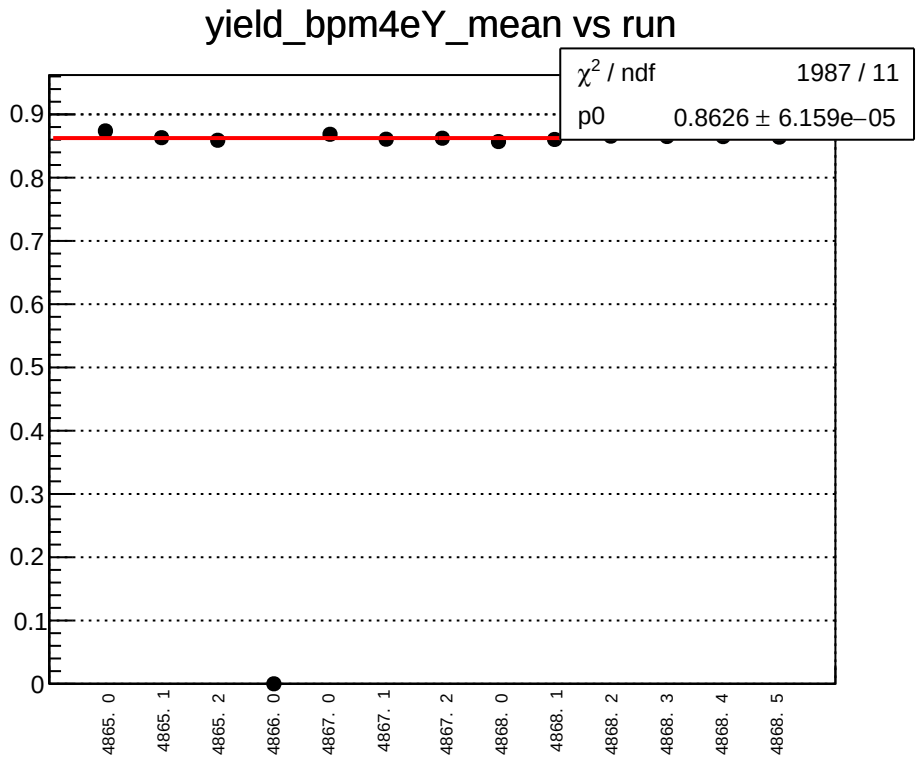
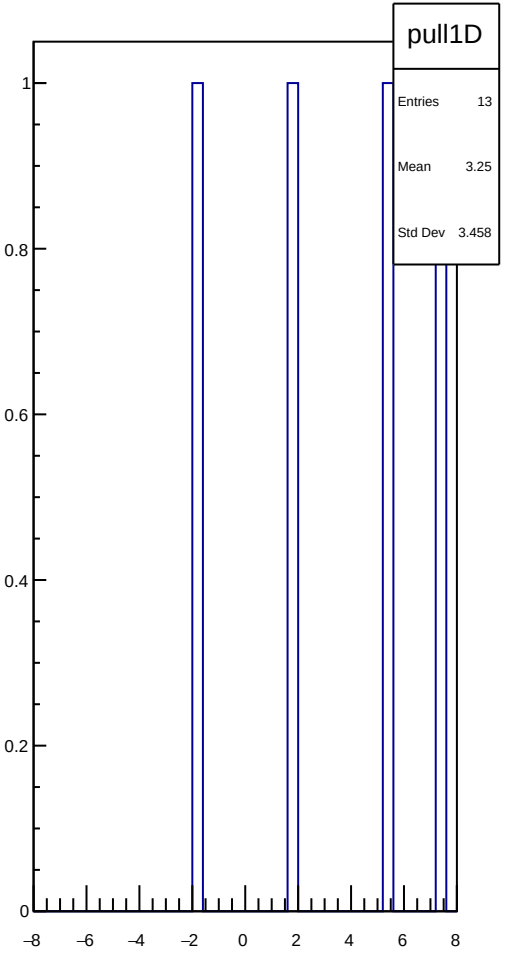
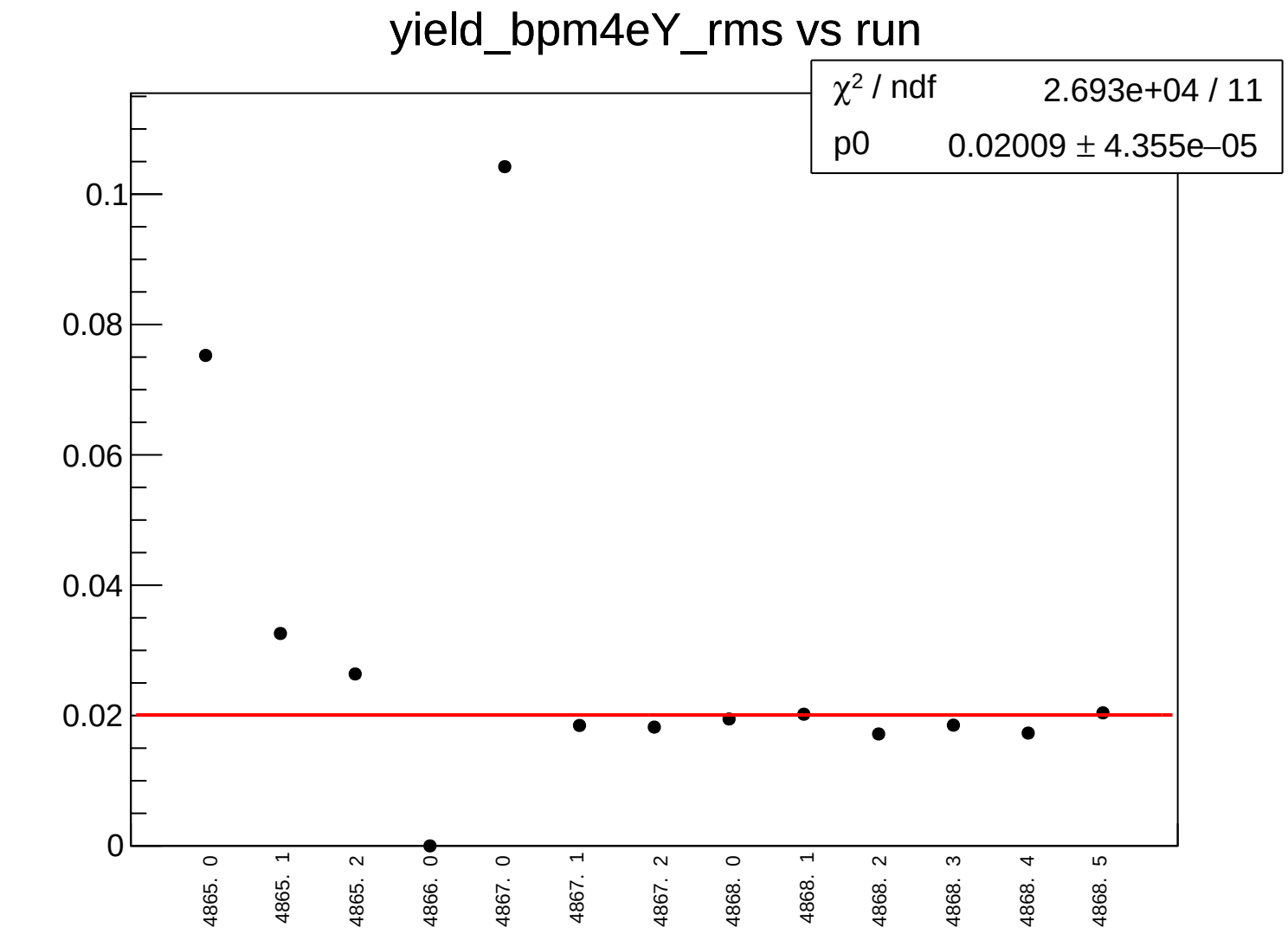
4868. 4
4868. 5

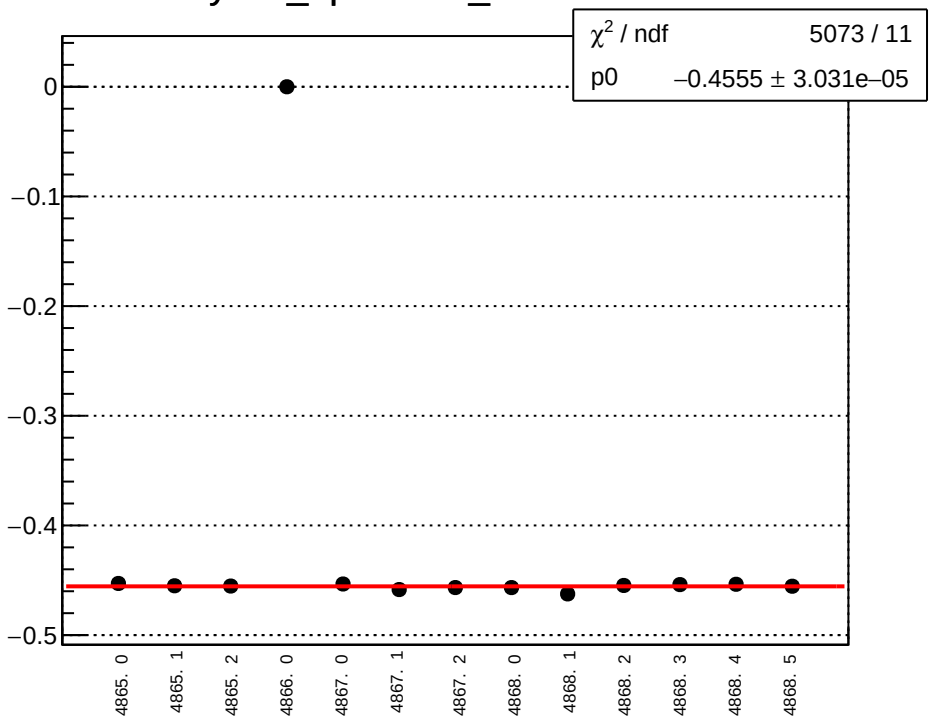

pull1D
Entries 13
Mean −2.74
Std Dev 4.284
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

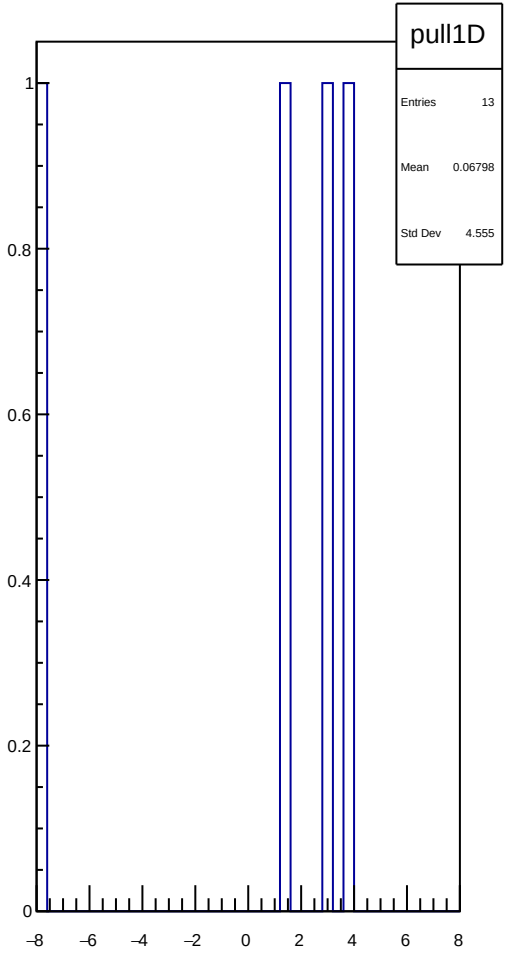

yield_bpm4eX_rms vs run
χ² / ndf 1.72e+04 / 11
p0 0.04313 ± 9.14e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

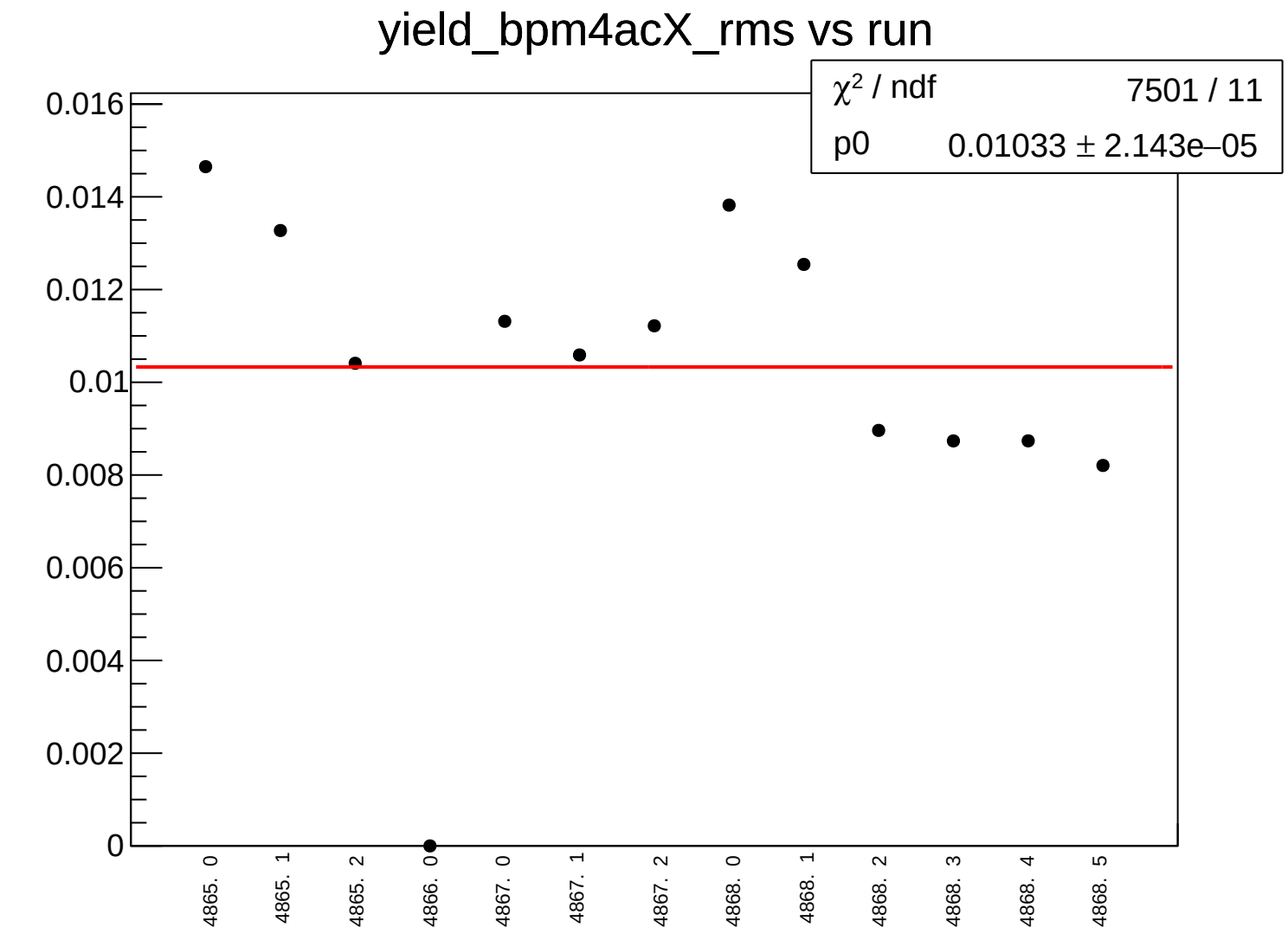

yield_bpm4eY_mean vs run
χ² / ndf 1987 / 11
p0 0.8626 ± 6.159e−05
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 3.25
Std Dev 3.458
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm4eY_rms vs run
χ² / ndf 2.693e+04 / 11
p0 0.02009 ± 4.355e–05
0.1
0.08
0.06
0.04
0.02
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


yield_bpm4acX_mean vs run
χ² / ndf 5073 / 11
p0 −0.4555 ± 3.031e−05
0
−0.1
−0.2
−0.3
−0.4
−0.5
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.06798
Std Dev 4.555
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm4acX_rms vs run
χ² / ndf 7501 / 11
p0 0.01033 ± 2.143e–05
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
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4868. 2
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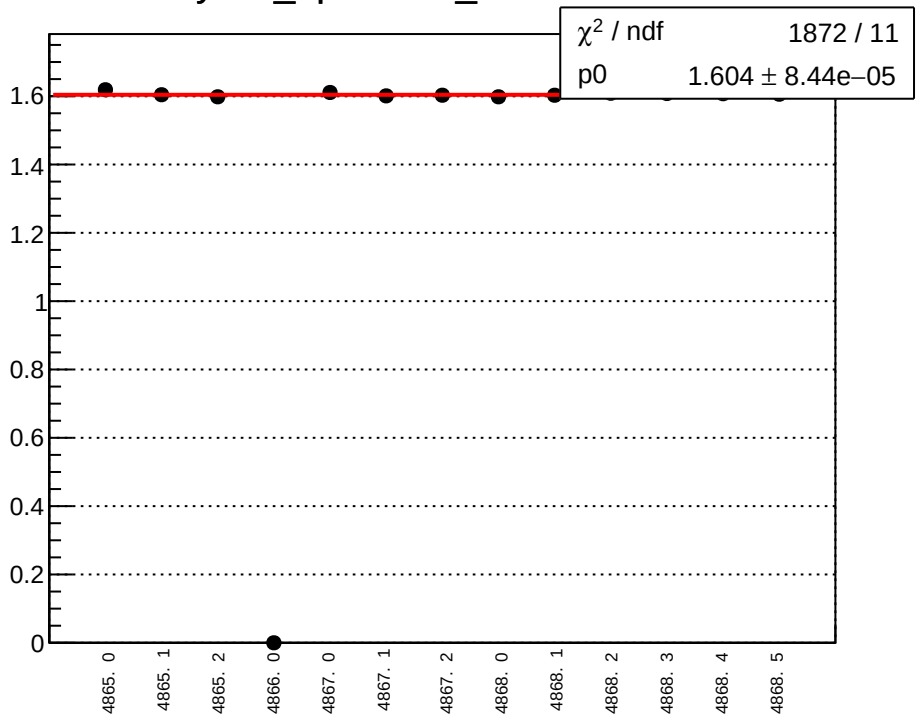
4868. 4
4868. 5


yield_bpm4acY_mean vs run
χ² / ndf 1872 / 11
p0 1.604 ± 8.44e−05
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
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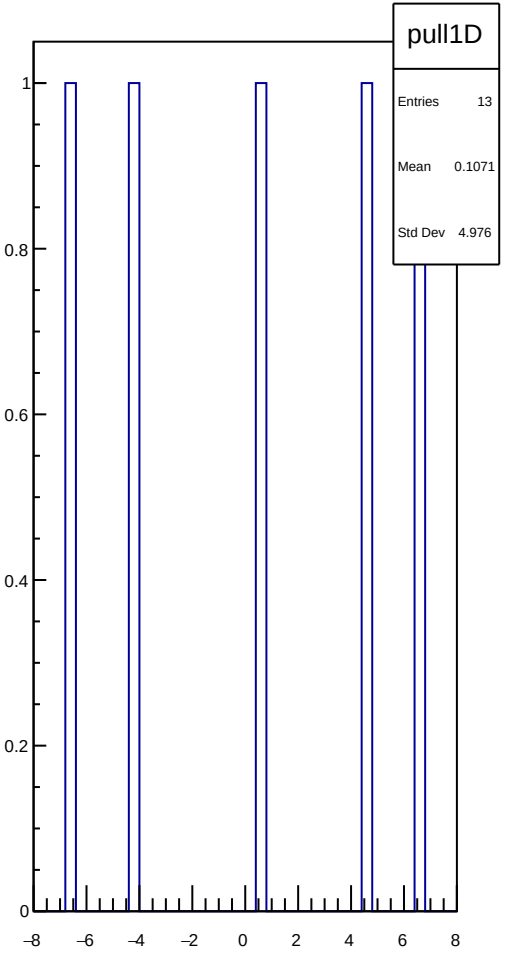
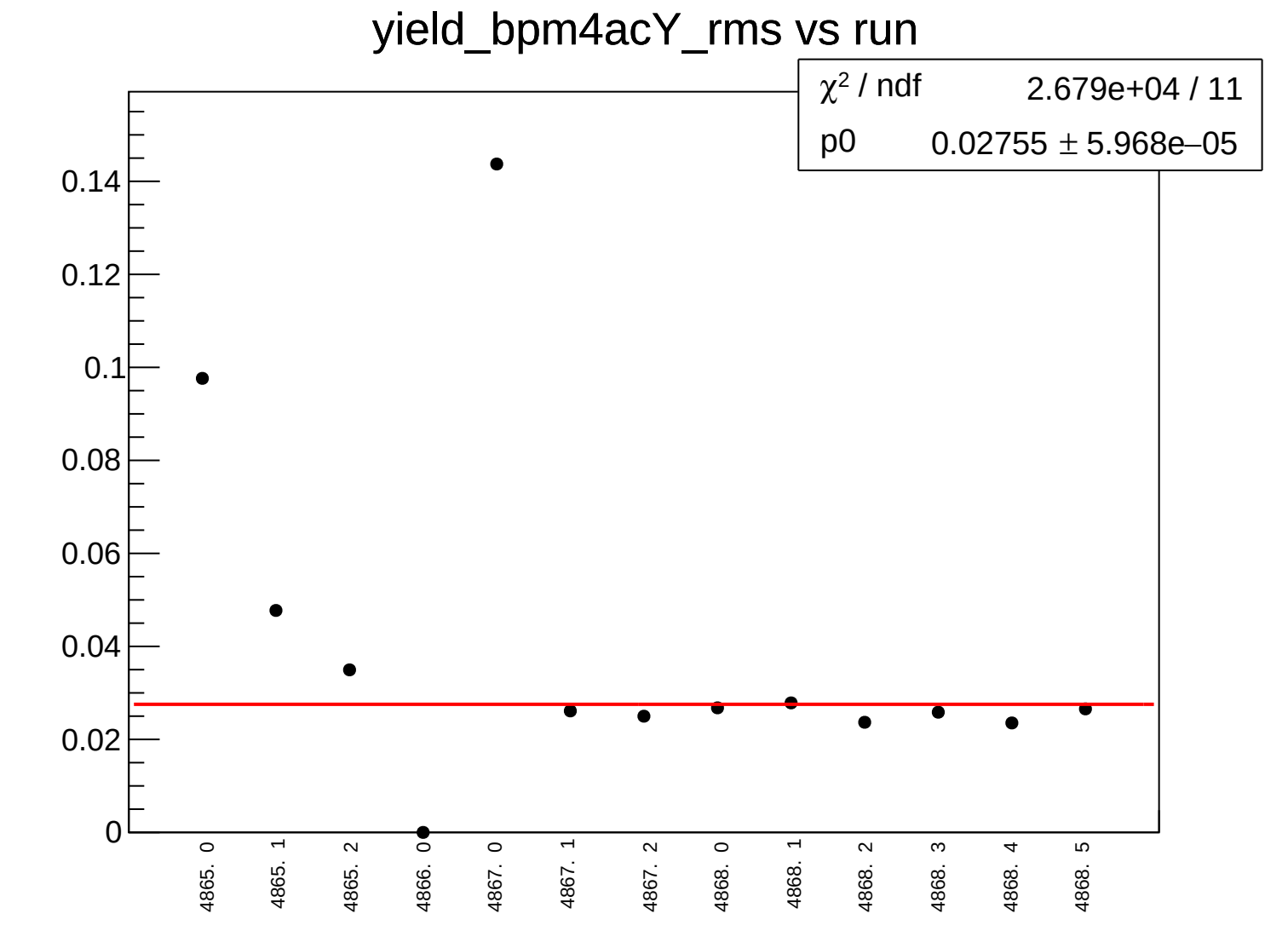
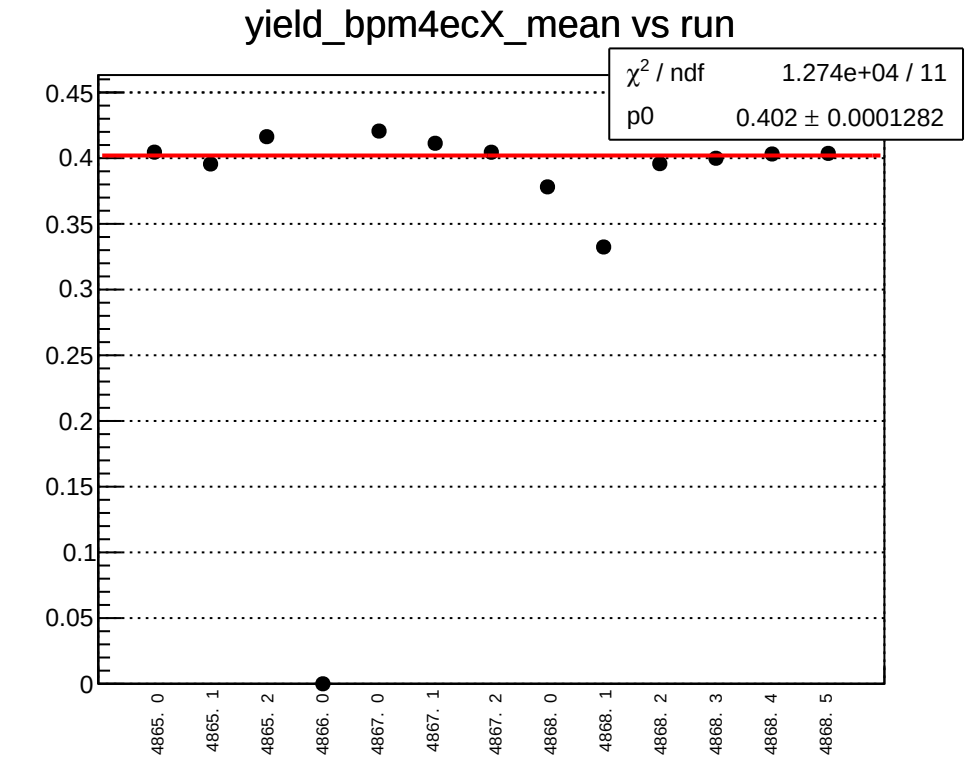
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.1071
Std Dev 4.976
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm4acY_rms vs run
χ² / ndf 2.679e+04 / 11
p0 0.02755 ± 5.968e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


yield_bpm4ecX_mean vs run
χ² / ndf 1.274e+04 / 11
p0 0.402 ± 0.0001282
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
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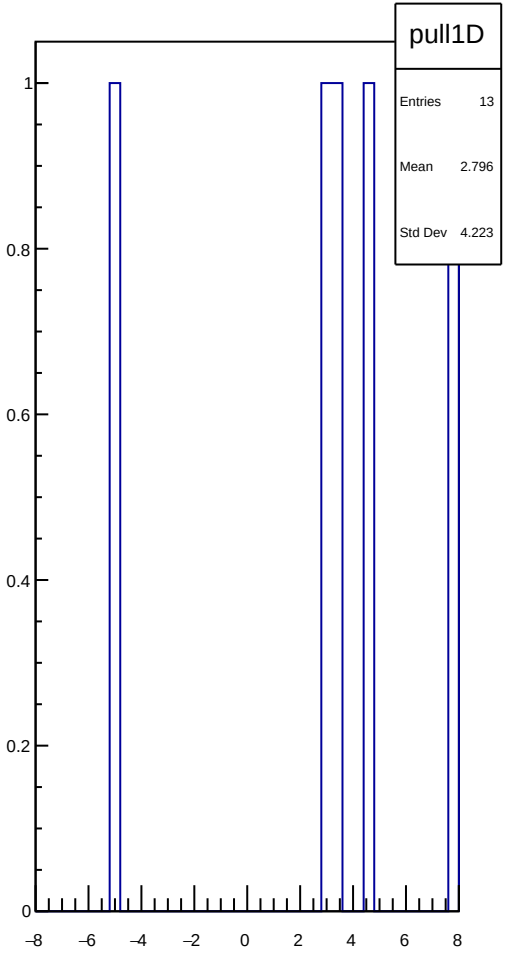
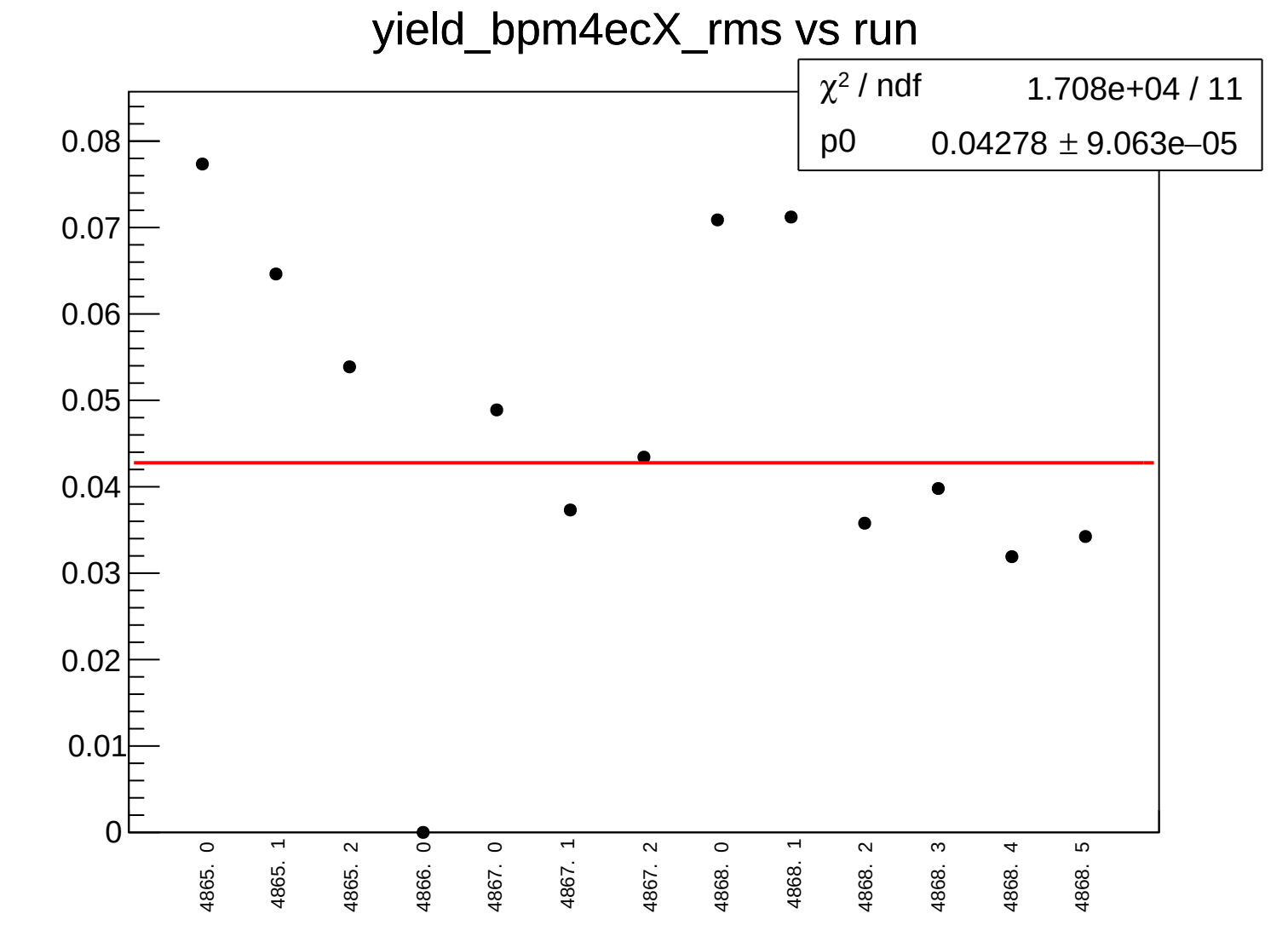
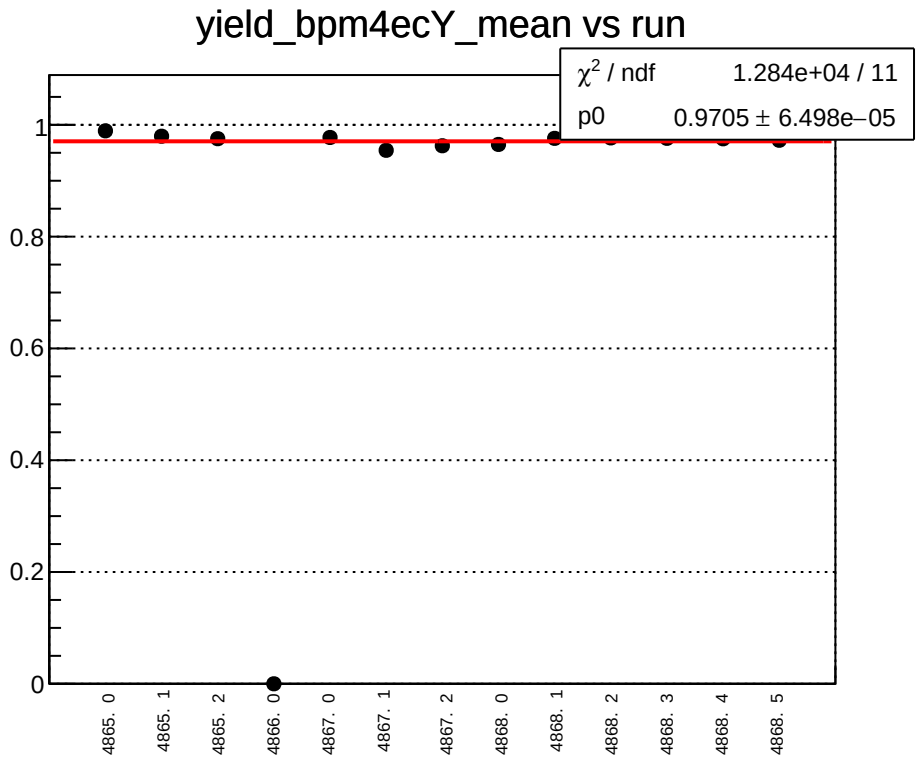
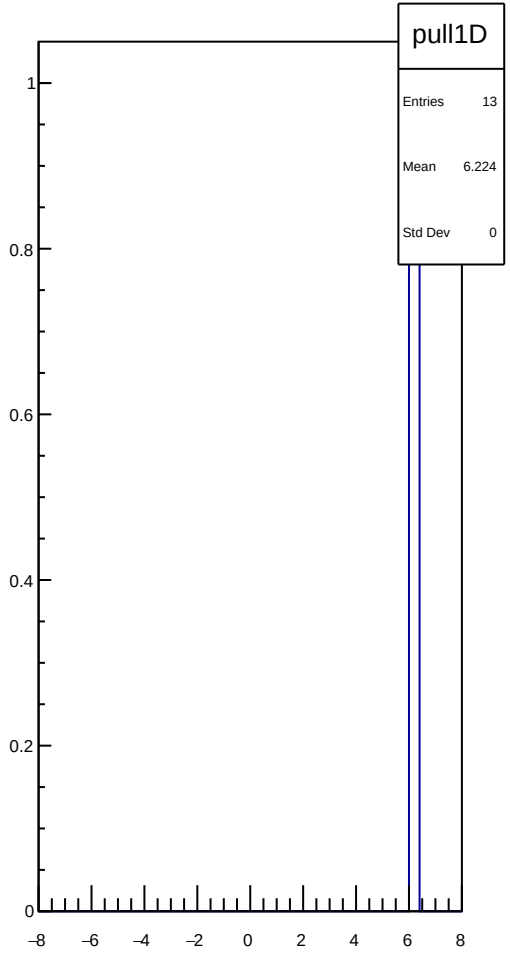
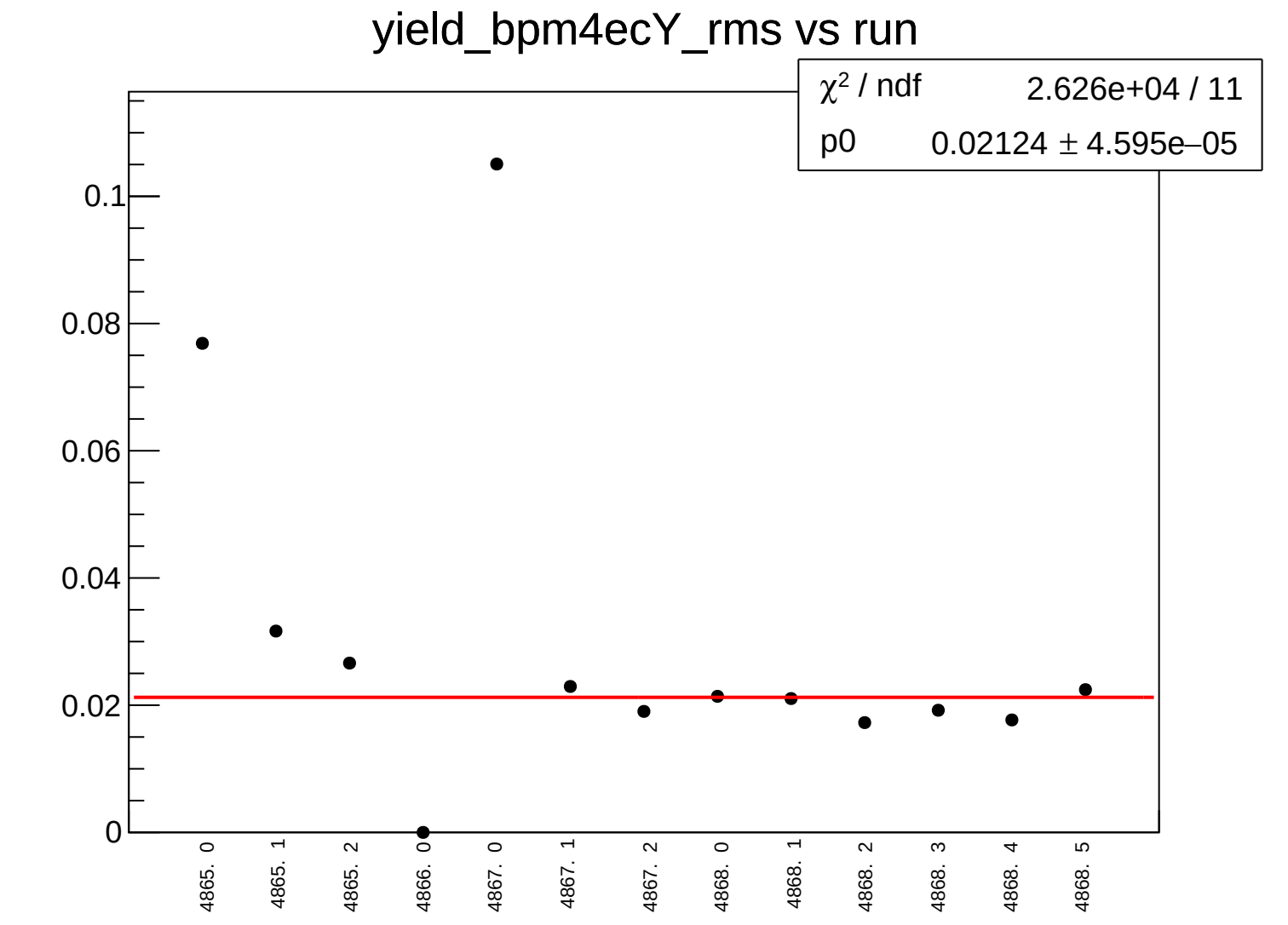
4868. 4
4868. 5

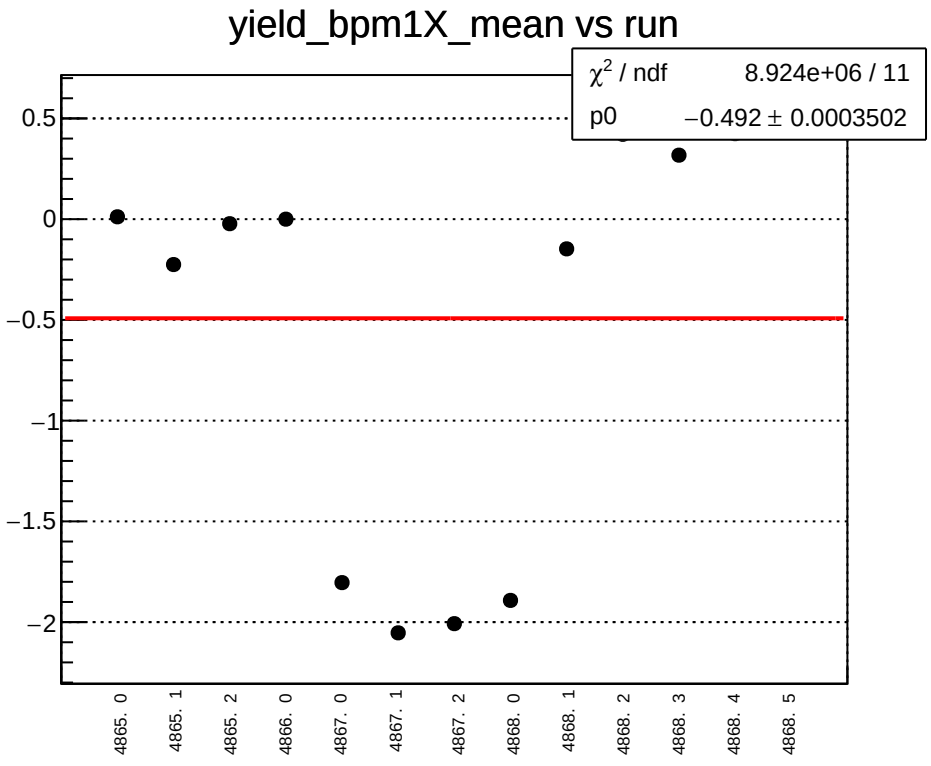

pull1D
Entries 13
Mean 2.796
Std Dev 4.223
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

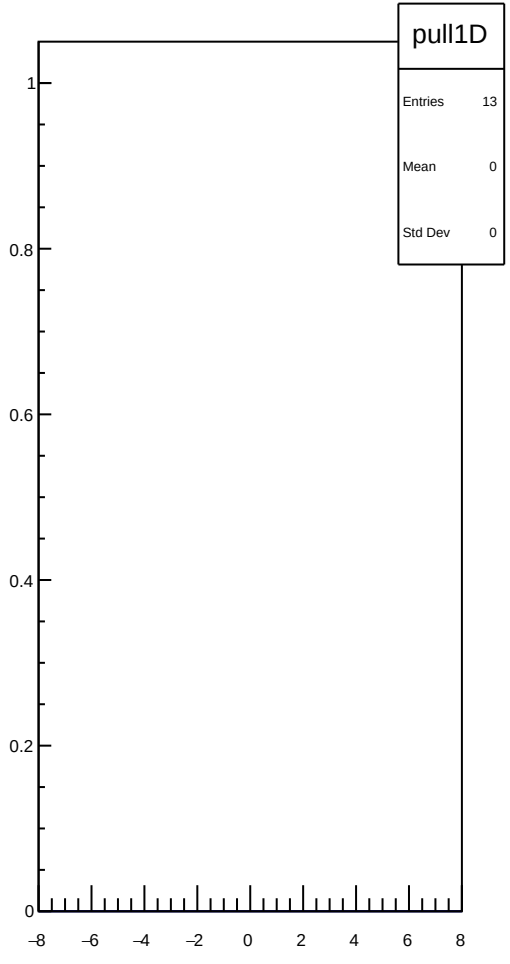

yield_bpm4ecX_rms vs run
χ² / ndf 1.708e+04 / 11
p0 0.04278 ± 9.063e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

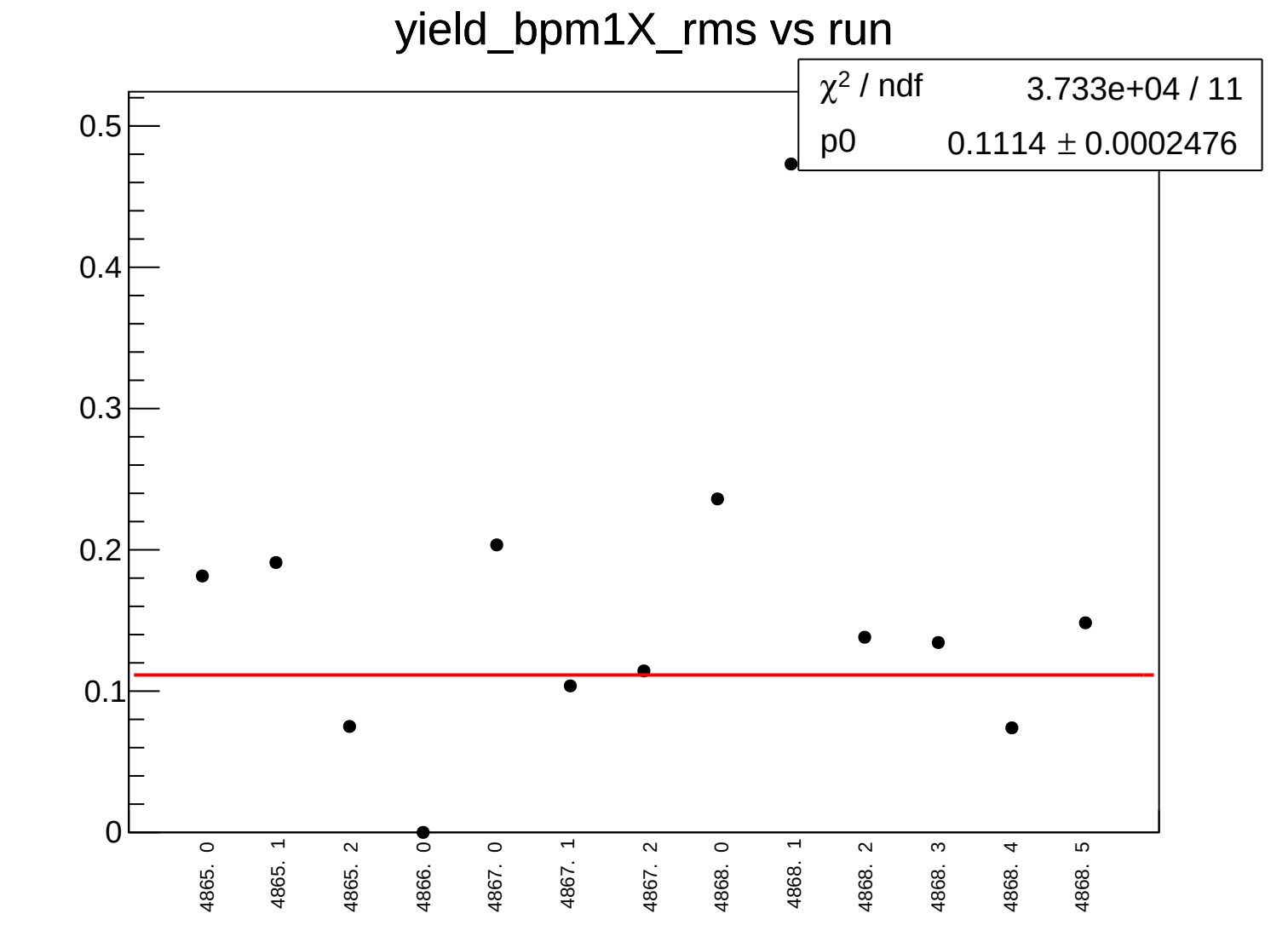

yield_bpm4ecY_mean vs run
χ² / ndf 1.284e+04 / 11
p0 0.9705 ± 6.498e−05
1
0.8
0.6
0.4
0.2
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

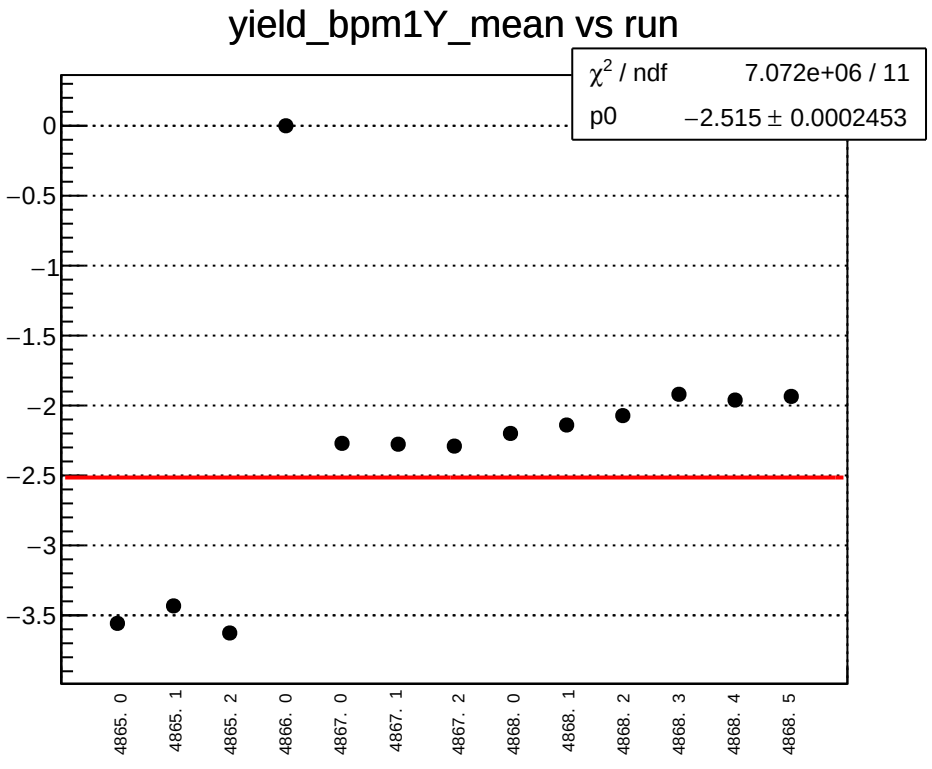

pull1D
Entries 13
Mean 6.224
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

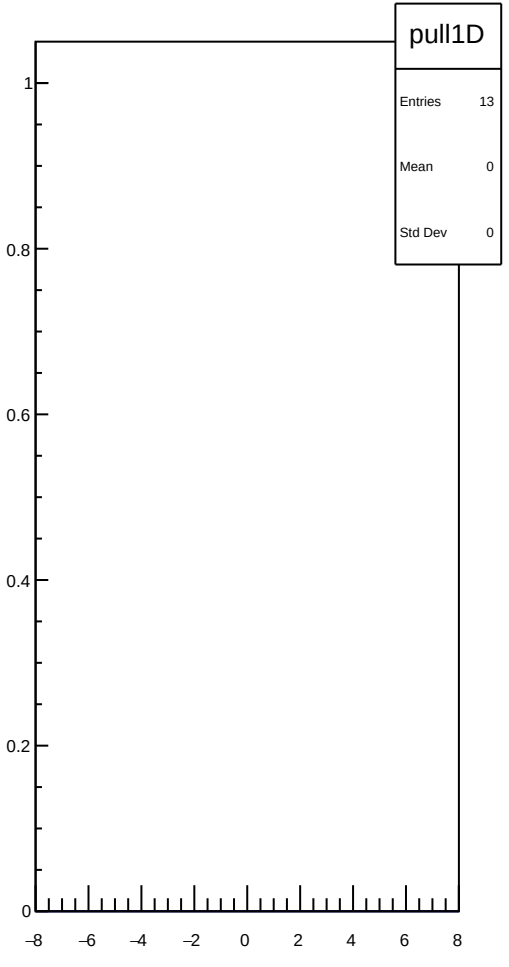

yield_bpm4ecY_rms vs run
χ² / ndf 2.626e+04 / 11
p0 0.02124 ± 4.595e−05
0.1
0.08
0.06
0.04
0.02
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

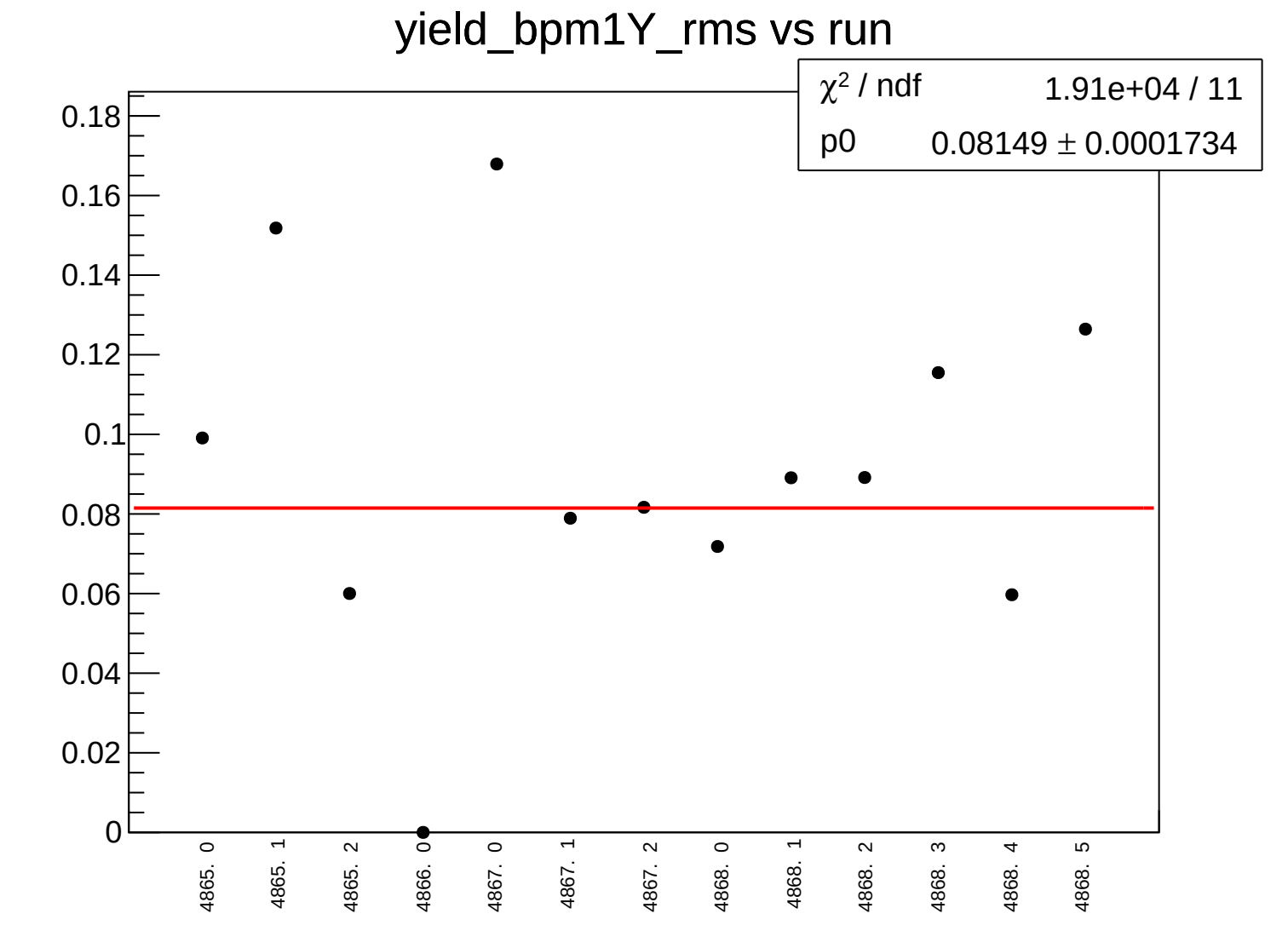

yield_bpm1X_mean vs run
χ² / ndf 8.924e+06 / 11
p0 −0.492 ± 0.0003502
0.5
0
−0.5
−1
−1.5
−2
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

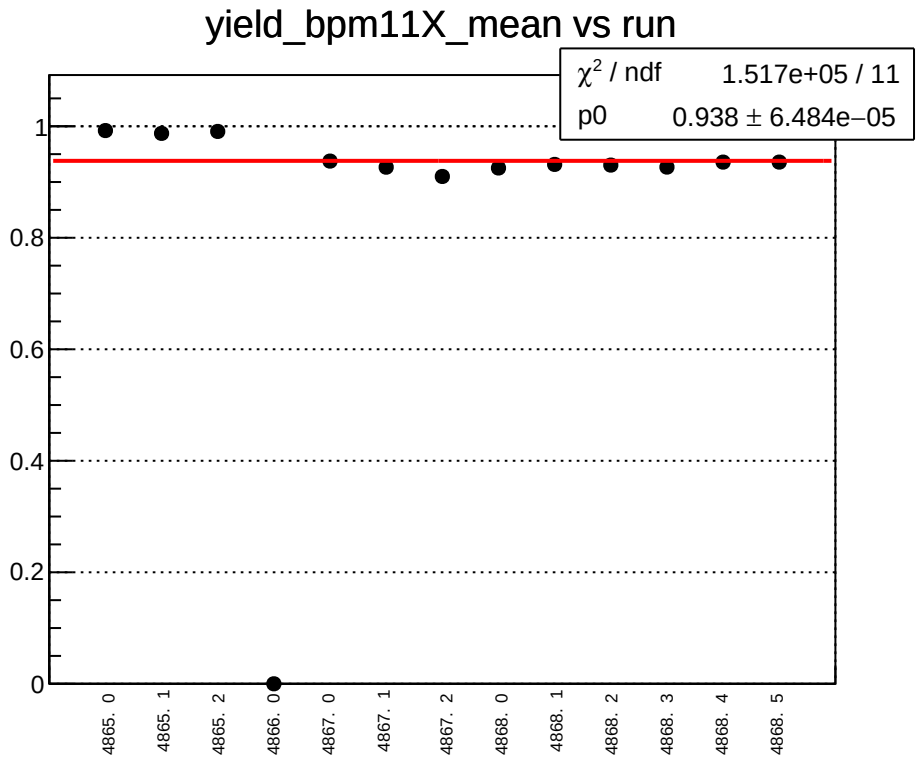

pull1D
Entries 13
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm1X_rms vs run
χ² / ndf 3.733e+04 / 11
p0 0.1114 ± 0.0002476
0.5
0.4
0.3
0.2
0.1
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


yield_bpm1Y_mean vs run
χ² / ndf 7.072e+06 / 11
p0 −2.515 ± 0.0002453
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
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 1.91e+04 / 11
p0 0.08149 ± 0.0001734
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


yield_bpm11X_mean vs run
χ² / ndf 1.517e+05 / 11
p0 0.938 ± 6.484e−05
1
0.8
0.6
0.4
0.2
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
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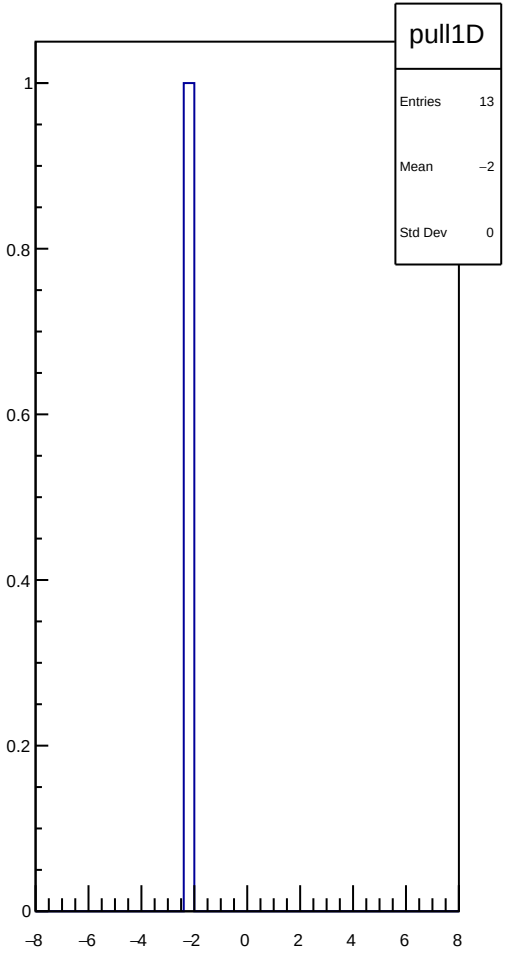
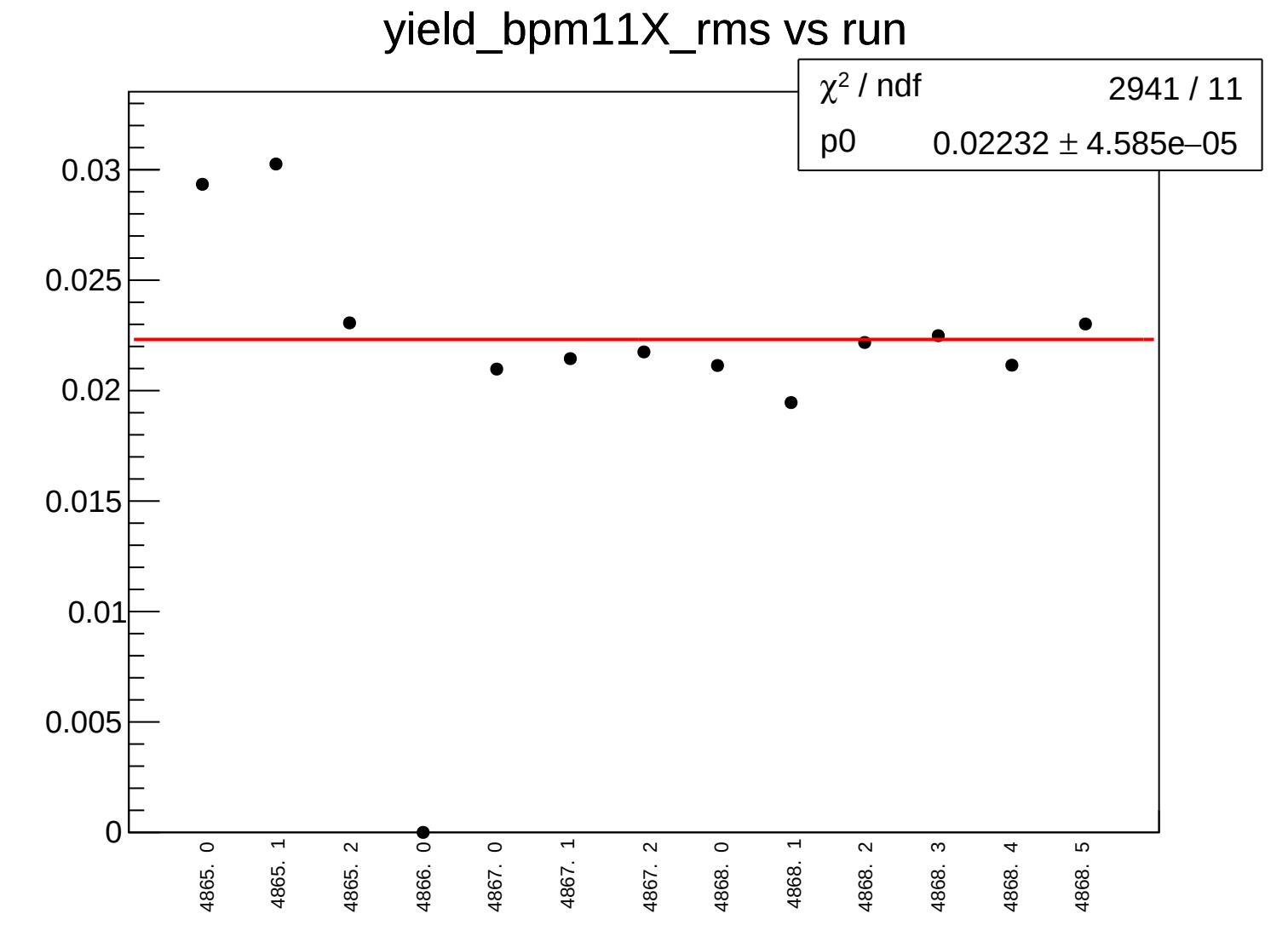
4868. 4
4868. 5


pull1D
Entries 13
Mean −2
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm11X_rms vs run
χ² / ndf 2941 / 11
p0 0.02232 ± 4.585e−05
0.03
0.025
0.02
0.015
0.01
0.005
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
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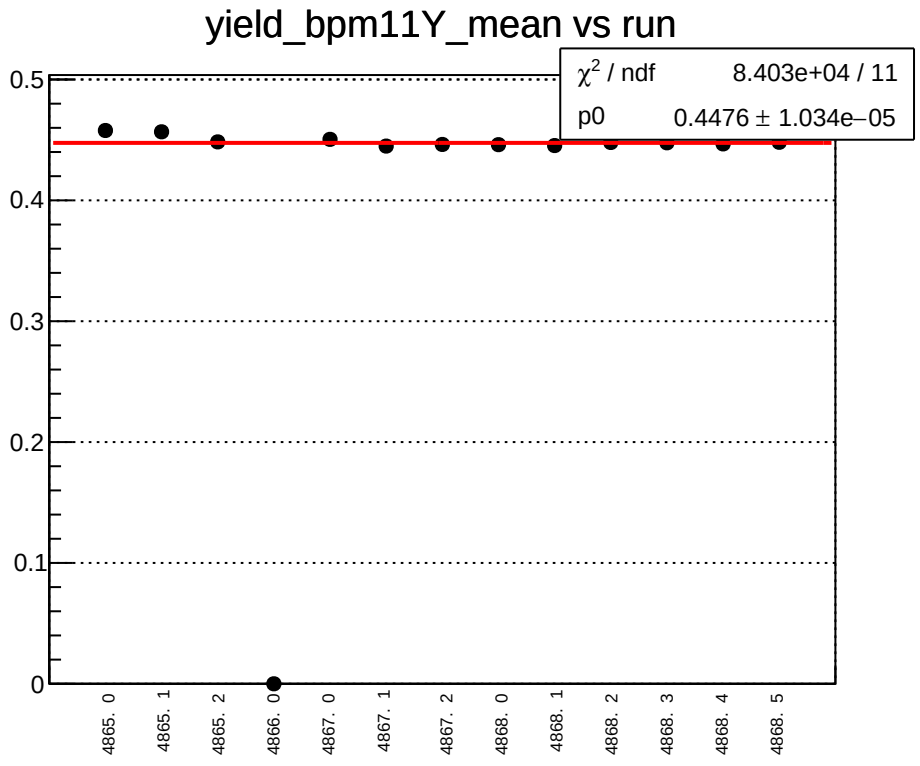
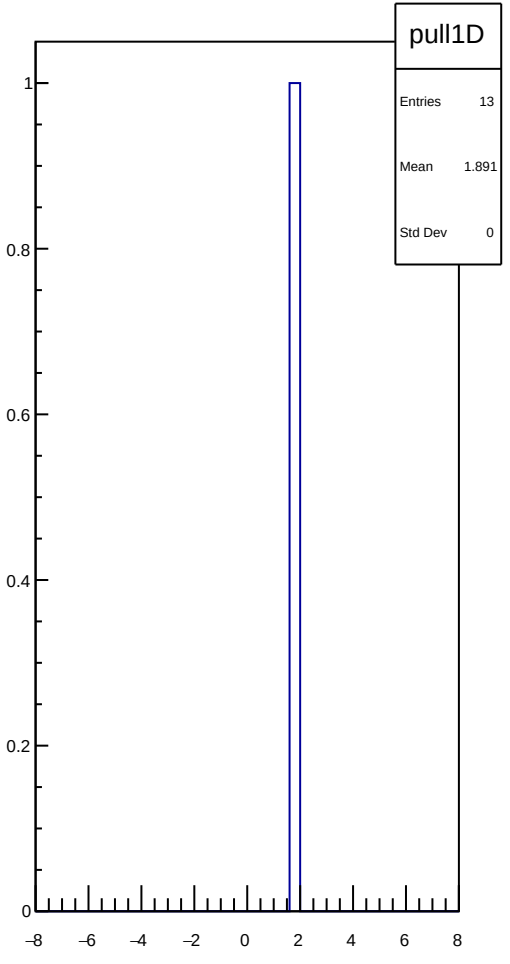
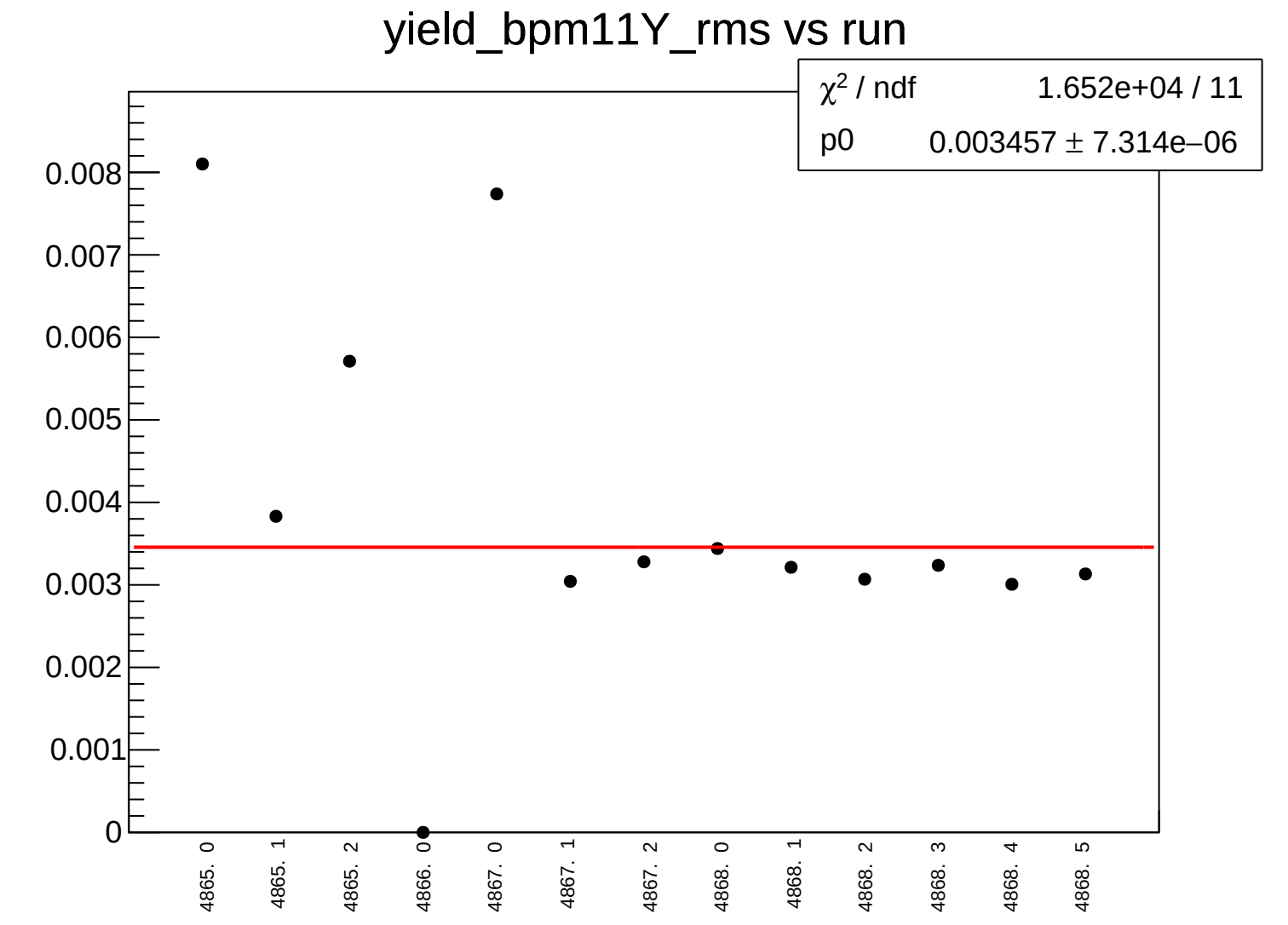
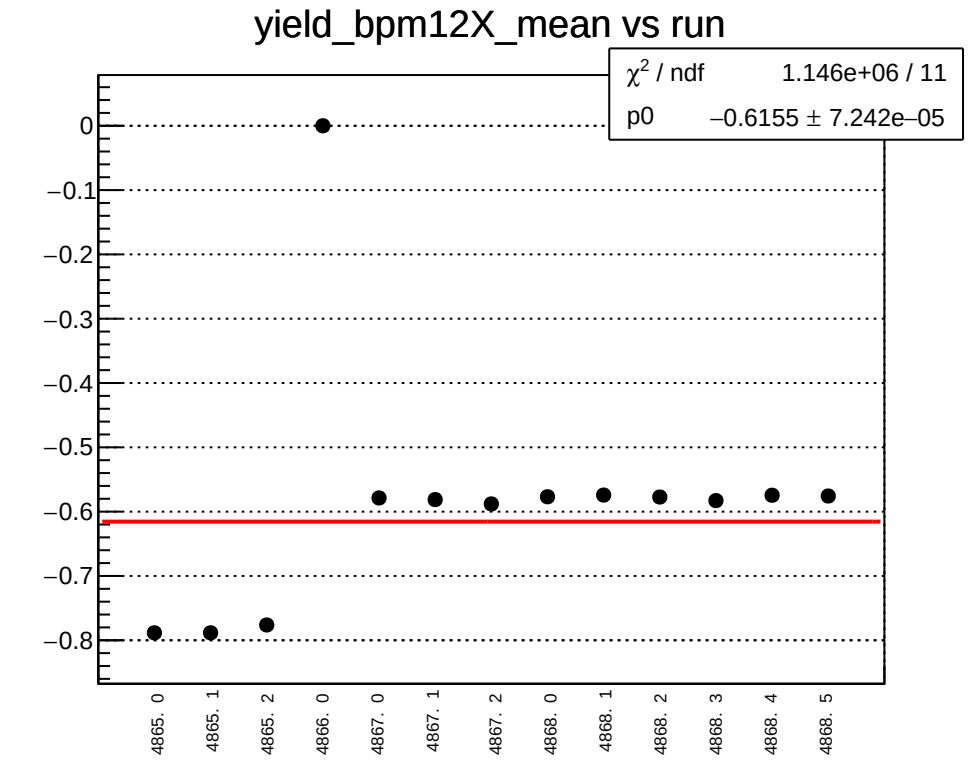
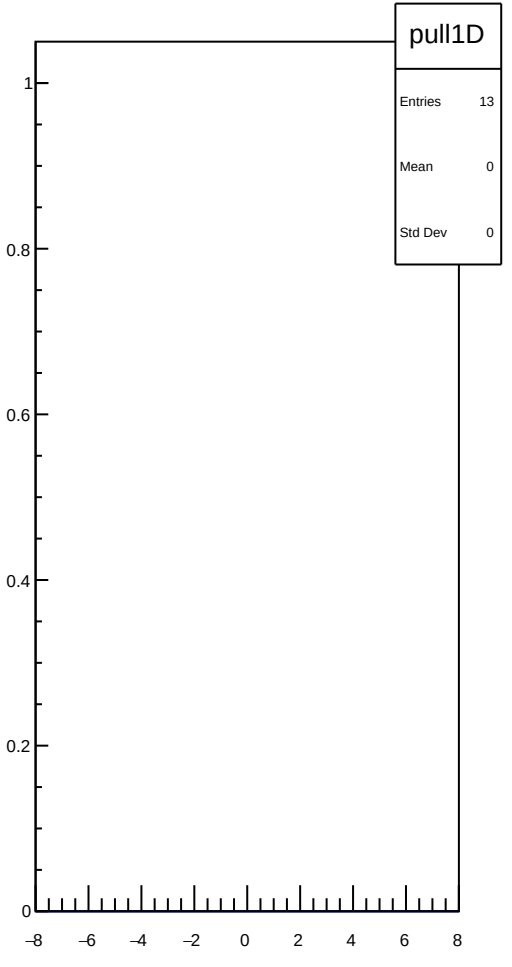
4868. 4
4868. 5

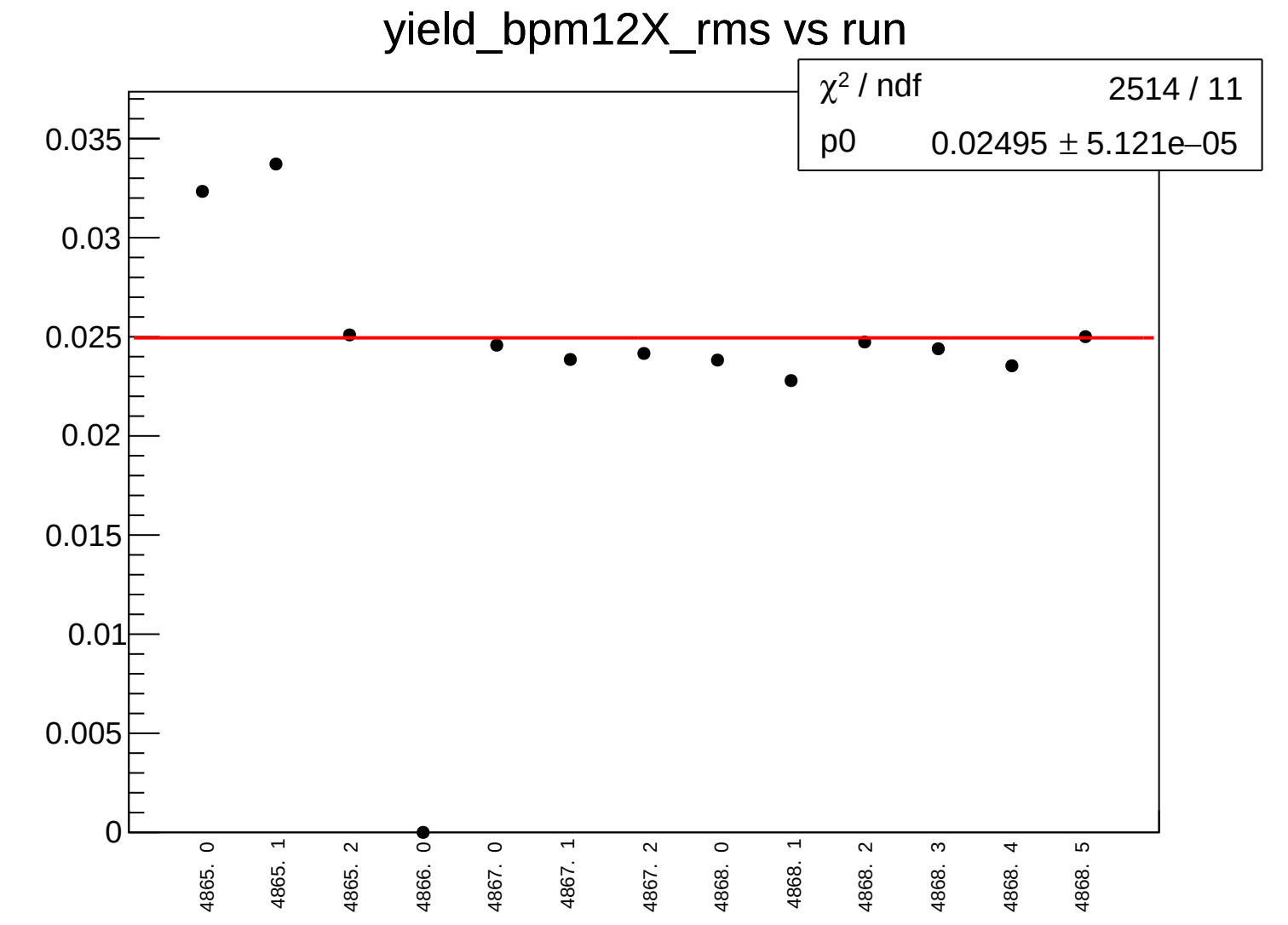

yield_bpm11Y_mean vs run
χ² / ndf 8.403e+04 / 11
p0 0.4476 ± 1.034e−05
0.5
0.4
0.3
0.2
0.1
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

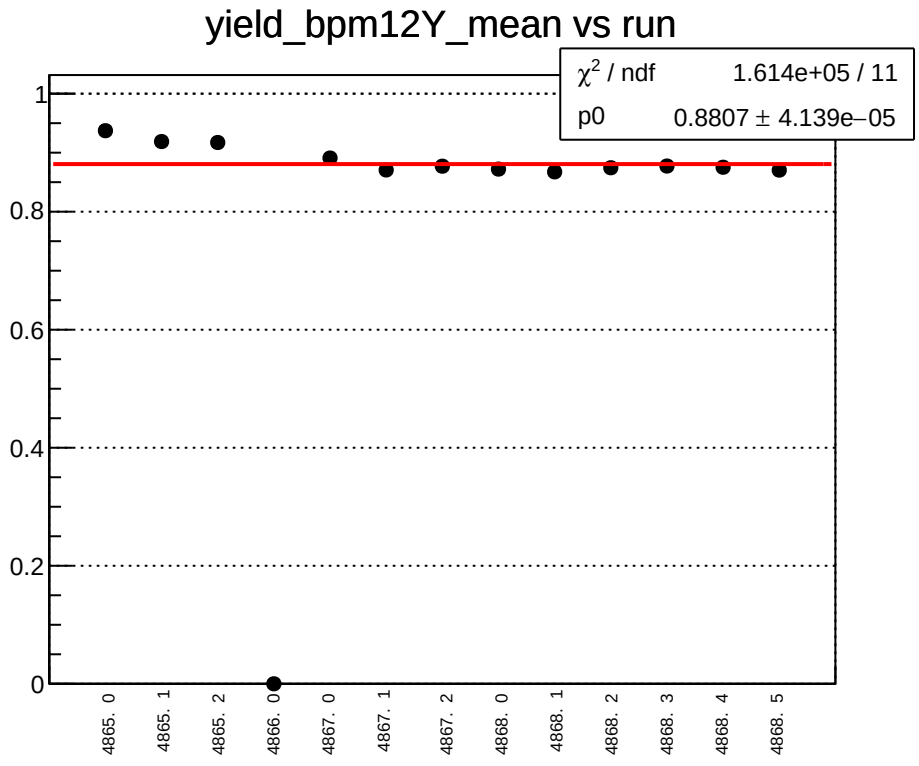

pull1D
Entries 13
Mean 1.891
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

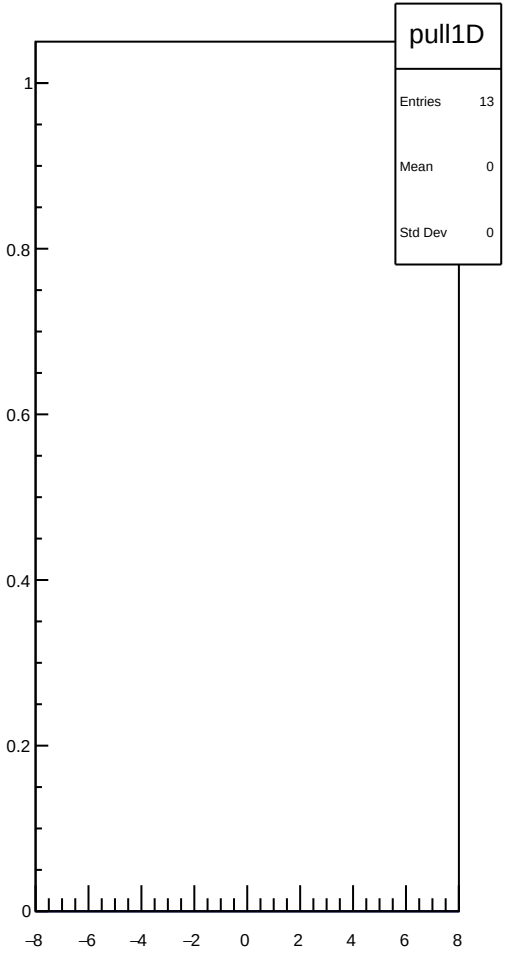

yield_bpm11Y_rms vs run
χ² / ndf 1.652e+04 / 11
p0 0.003457 ± 7.314e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

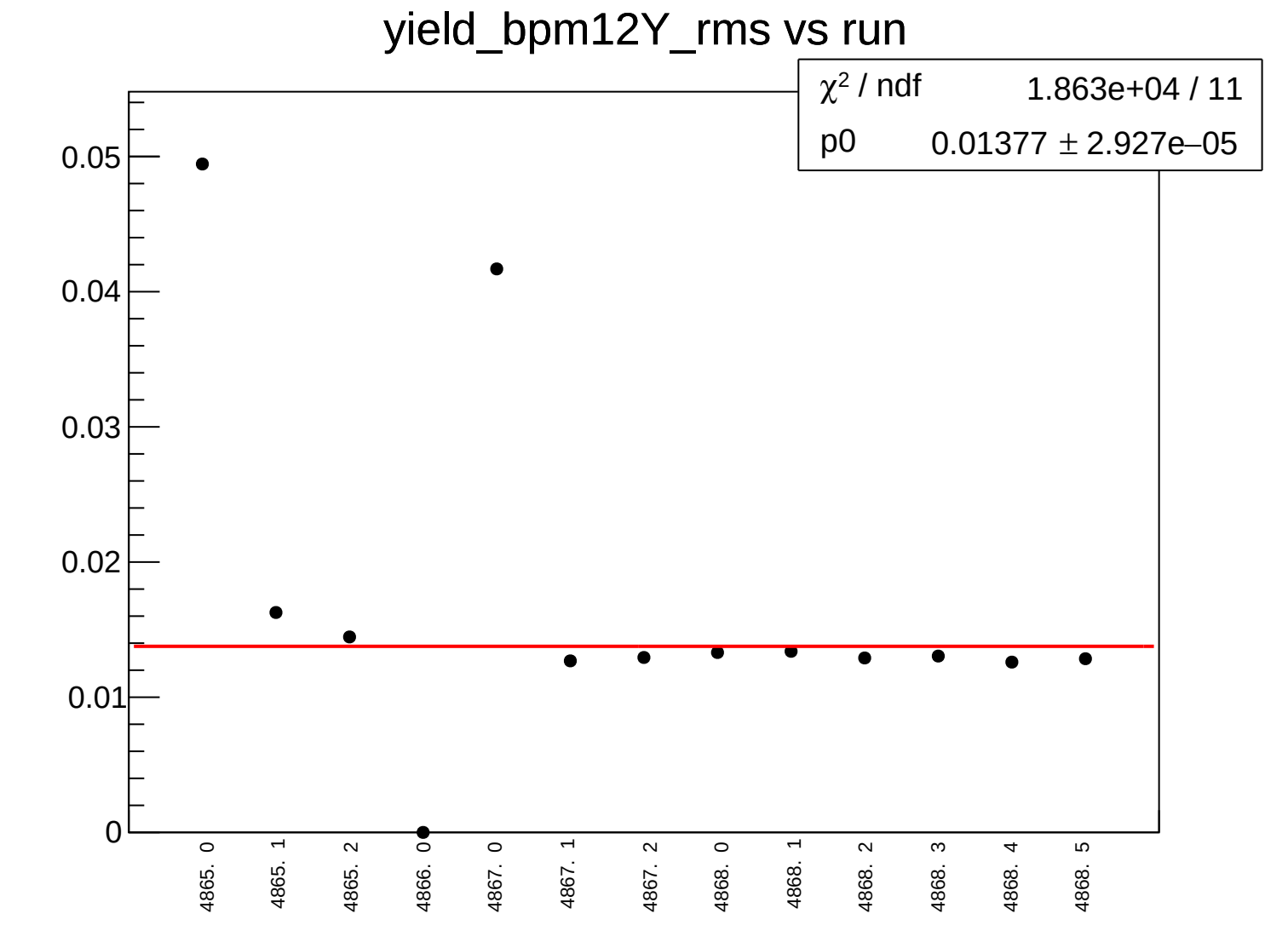

yield_bpm12X_mean vs run
χ² / ndf 1.146e+06 / 11
p0 −0.6155 ± 7.242e−05
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

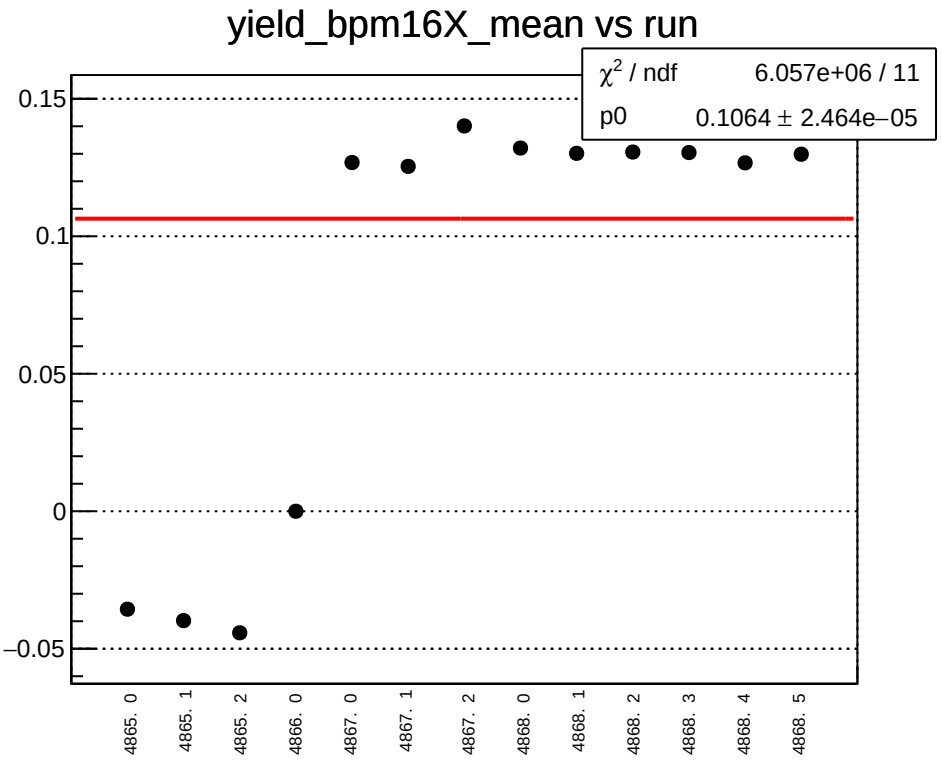

pull1D
Entries 13
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

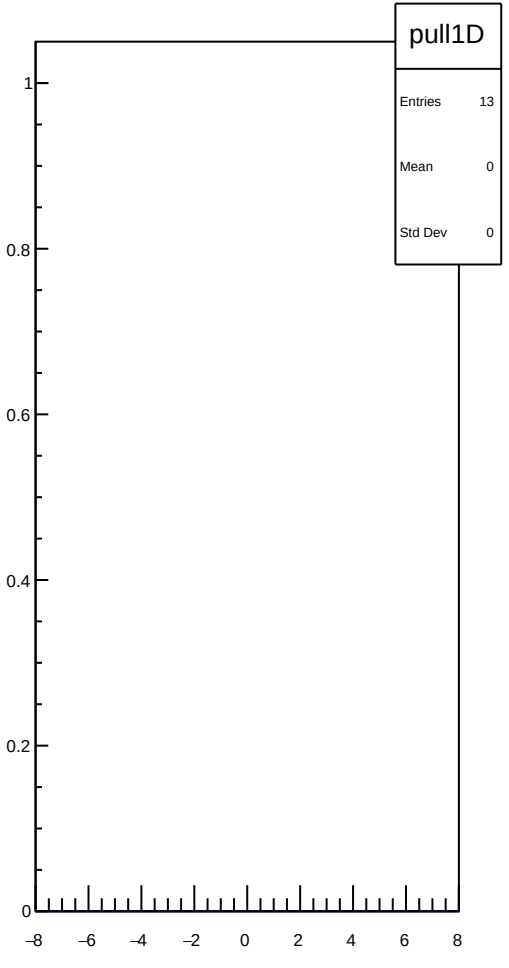

yield_bpm12X_rms vs run
χ² / ndf 2514 / 11
p0 0.02495 ± 5.121e–05
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

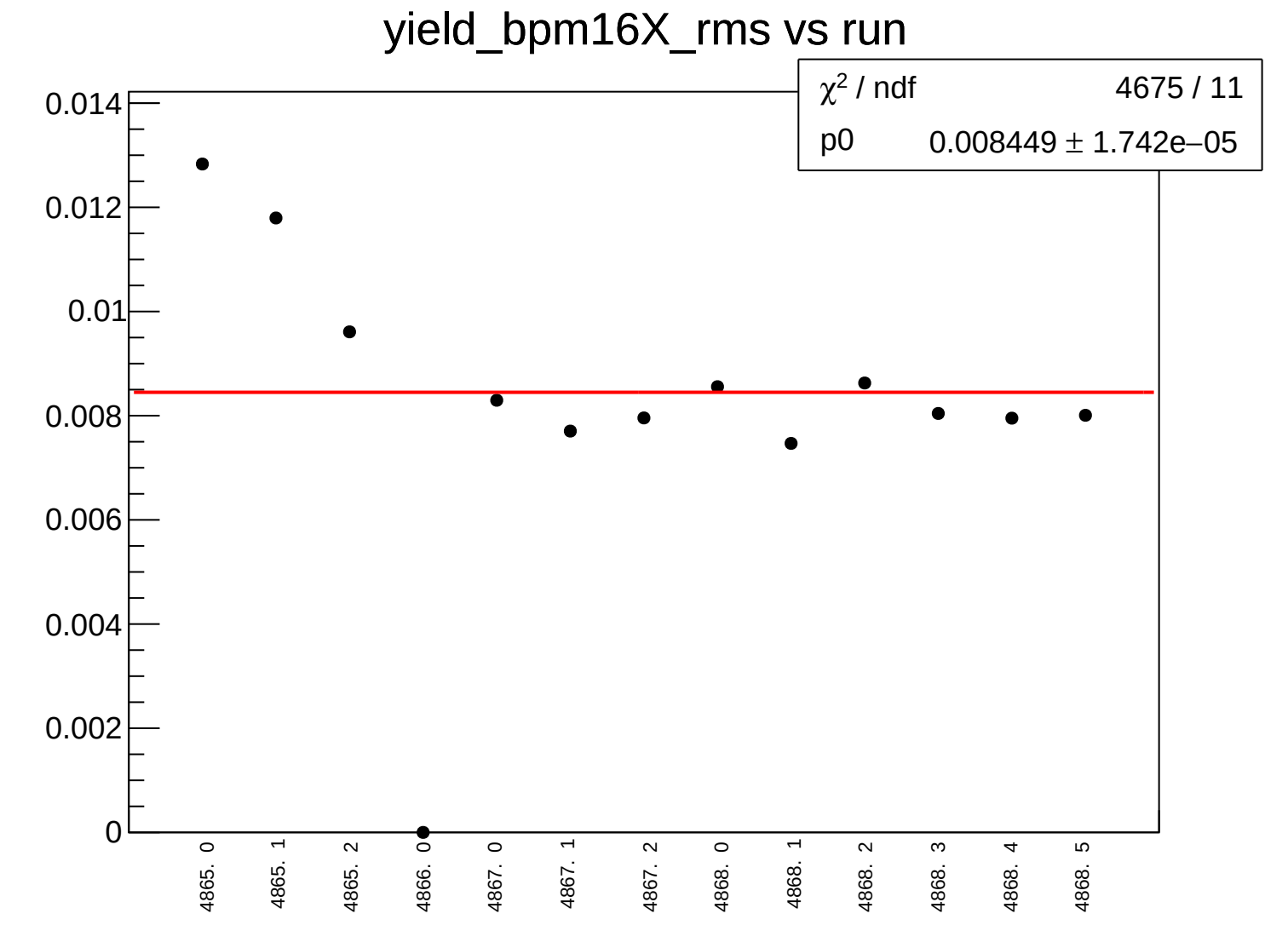

yield_bpm12Y_mean vs run
χ² / ndf 1.614e+05 / 11
p0 0.8807 ± 4.139e−05
1
0.8
0.6
0.4
0.2
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

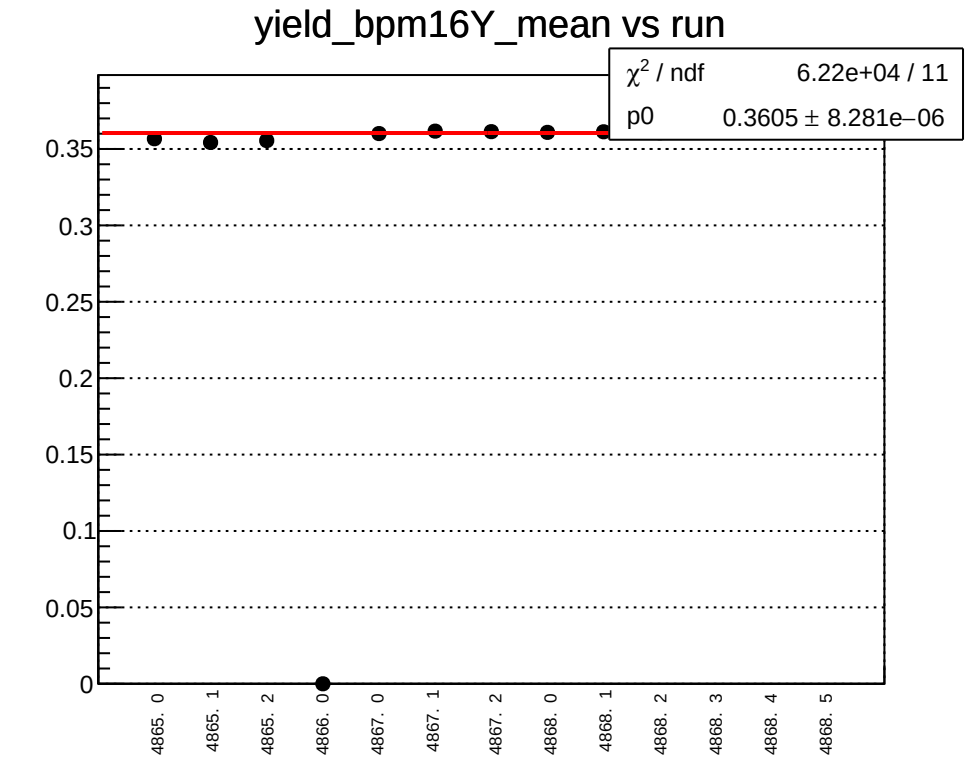

pull1D
Entries 13
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

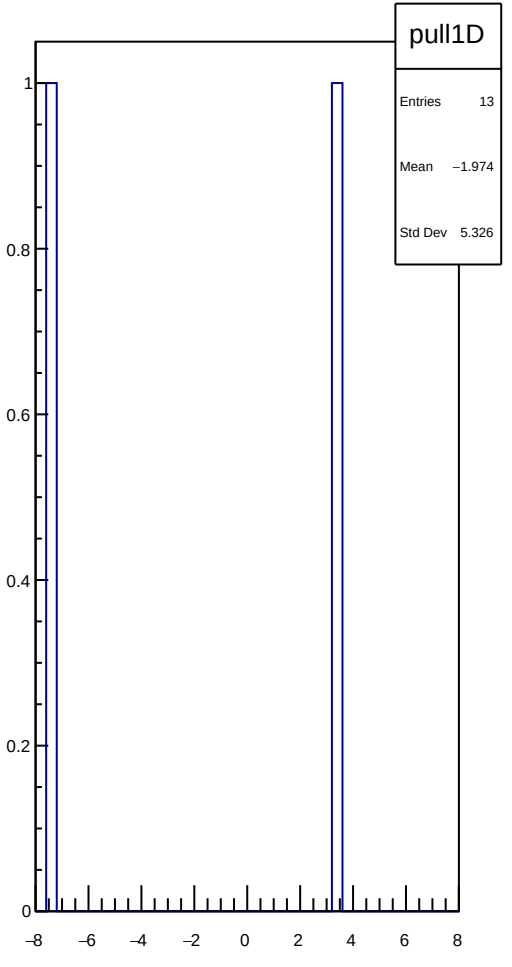

yield_bpm12Y_rms vs run
χ² / ndf 1.863e+04 / 11
p0 0.01377 ± 2.927e–05
0.05
0.04
0.03
0.02
0.01
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

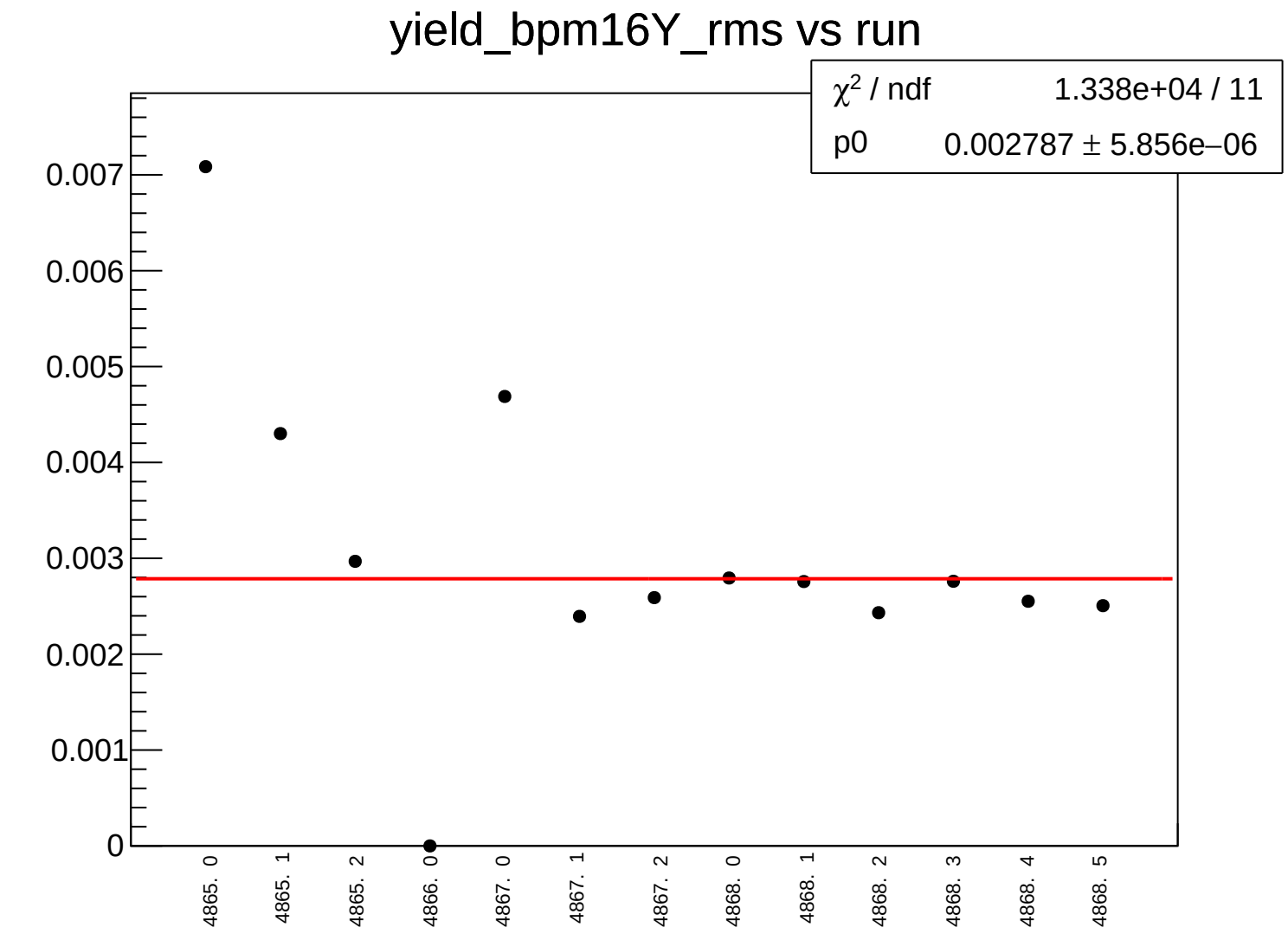

yield_bpm16X_mean vs run
χ^2 / ndf 6.057e+06 / 11
p0 0.1064 ± 2.464e−05
0.15
0.1
0.05
0
−0.05
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

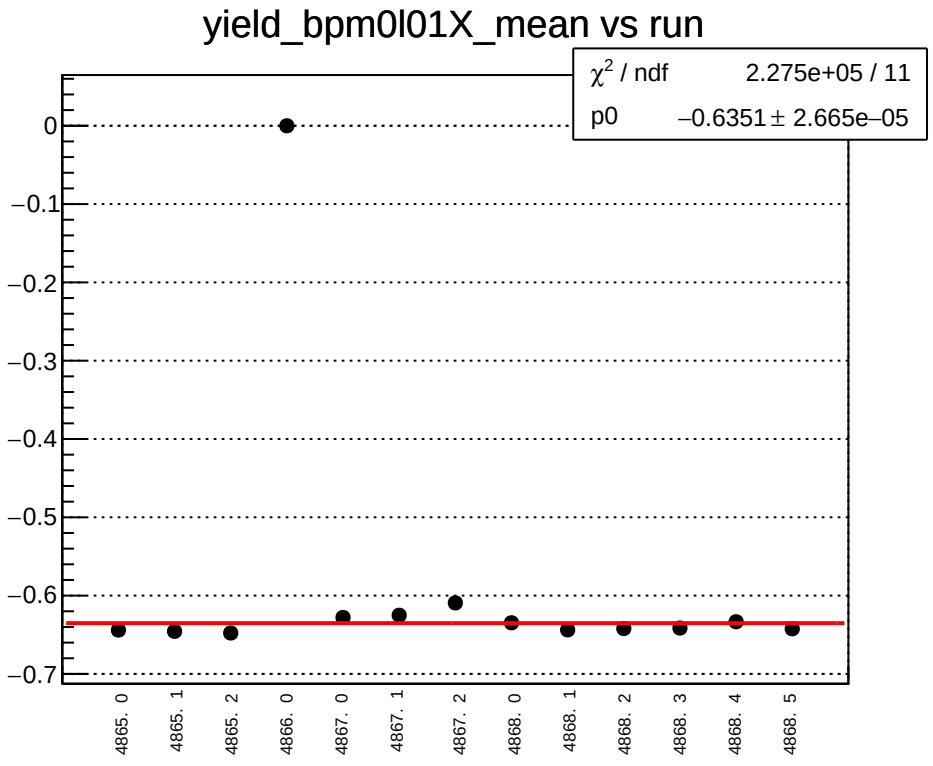

pull1D
Entries 13
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

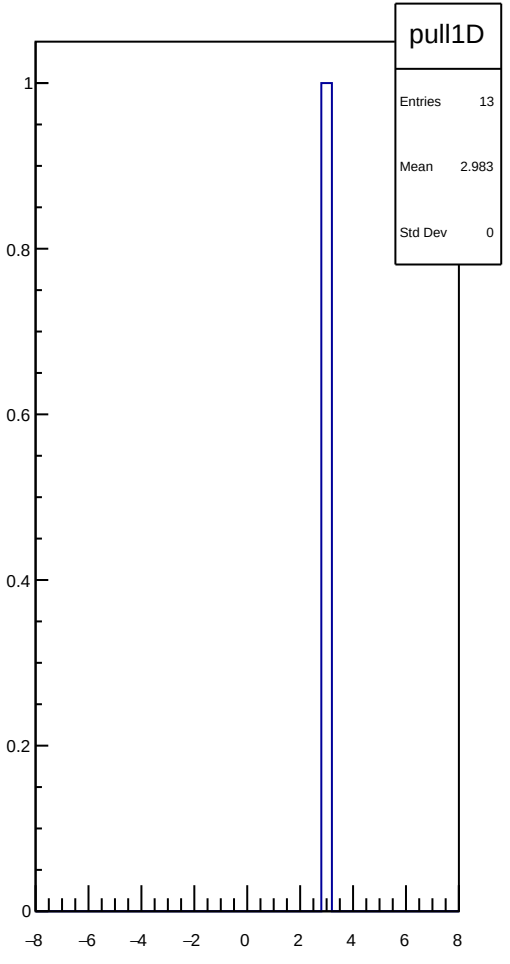

yield_bpm16X_rms vs run
χ² / ndf 4675 / 11
p0 0.008449 ± 1.742e−05
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

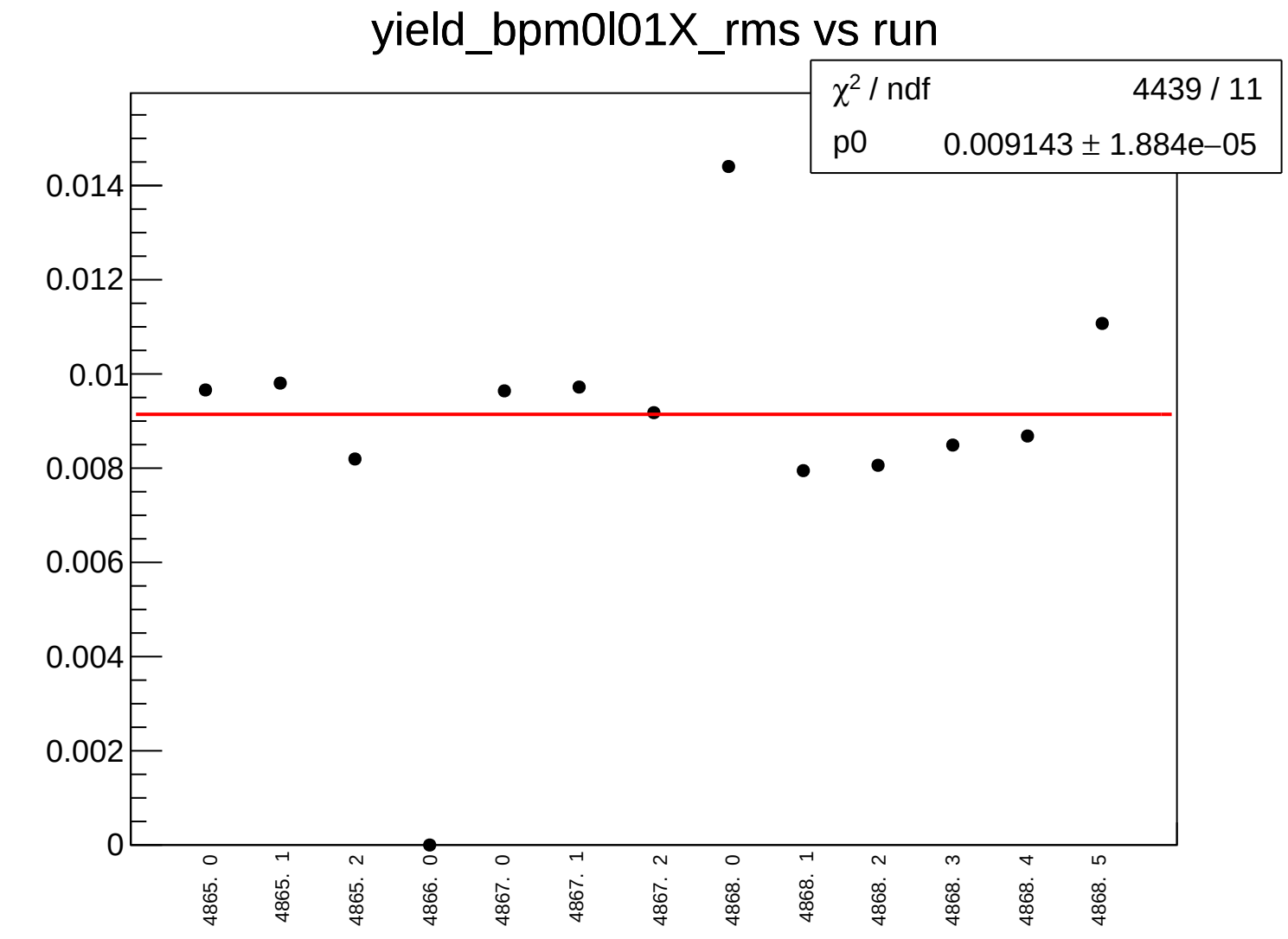

yield_bpm16Y_mean vs run
χ² / ndf 6.22e+04 / 11
p0 0.3605 ± 8.281e−06
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

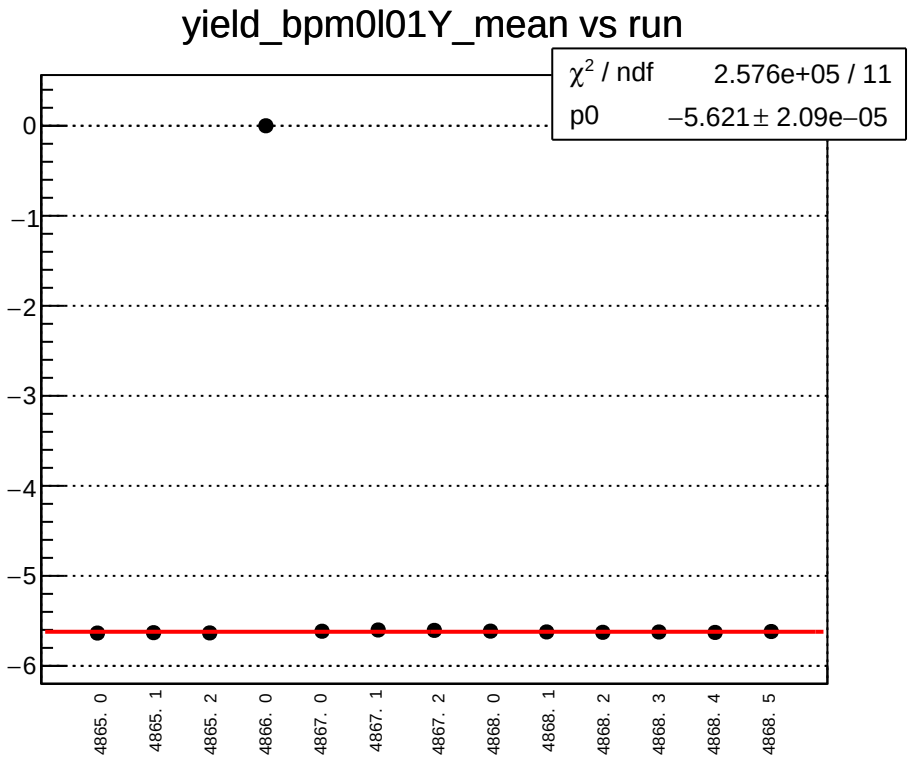

pull1D
Entries 13
Mean −1.974
Std Dev 5.326
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

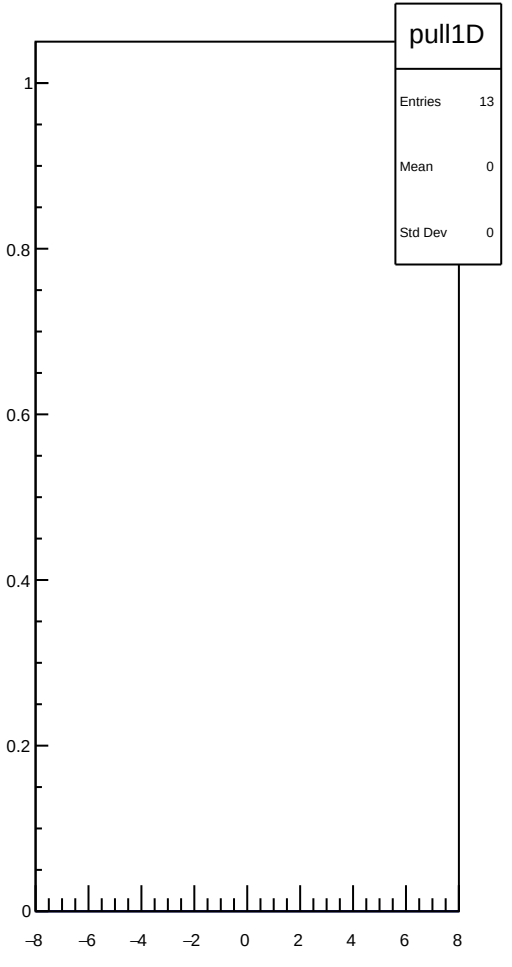

yield_bpm16Y_rms vs run
χ² / ndf 1.338e+04 / 11
p0 0.002787 ± 5.856e−06
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

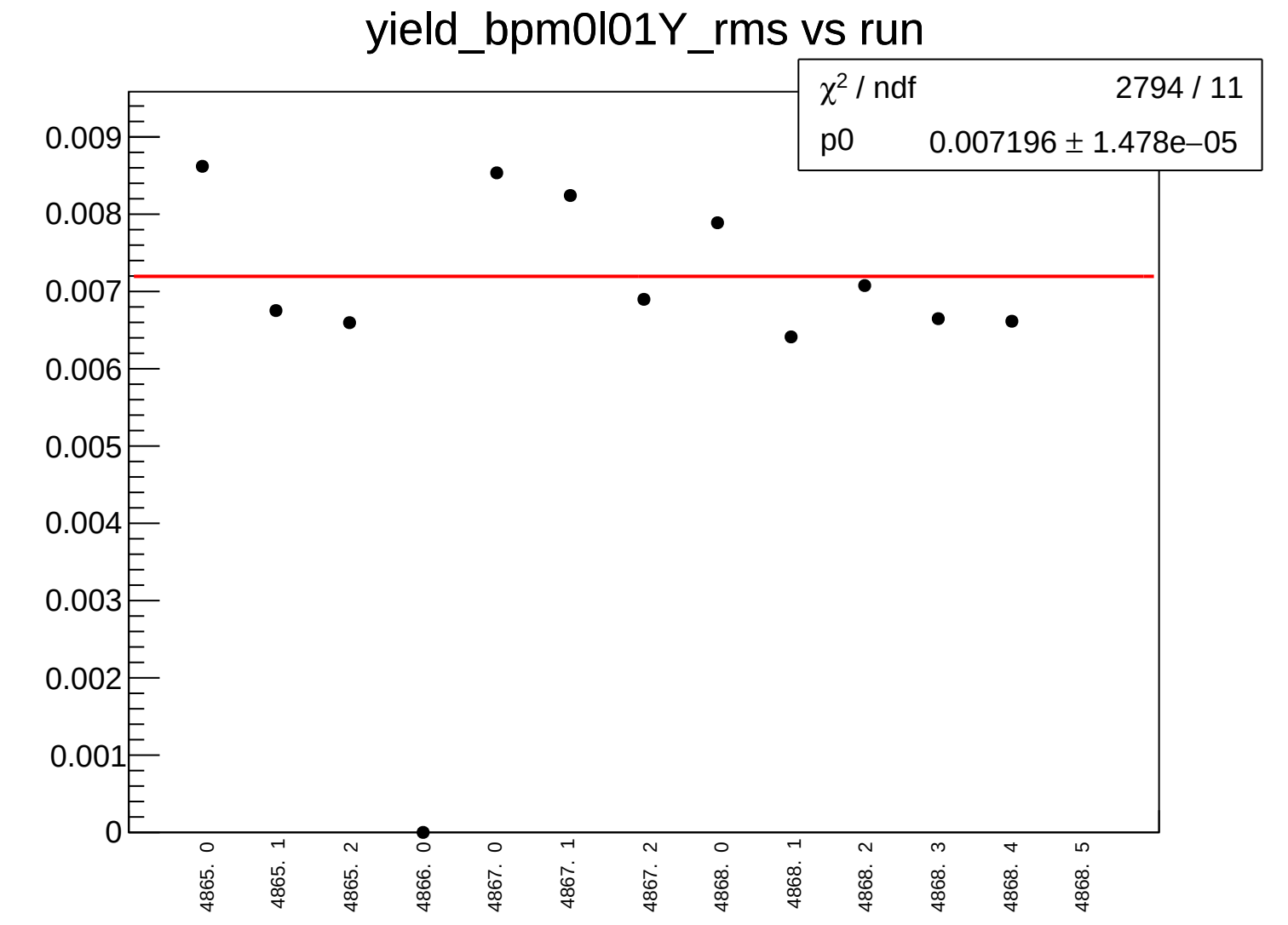

yield_bpm0l01X_mean vs run
χ² / ndf 2.275e+05 / 11
p0 −0.6351 ± 2.665e−05
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

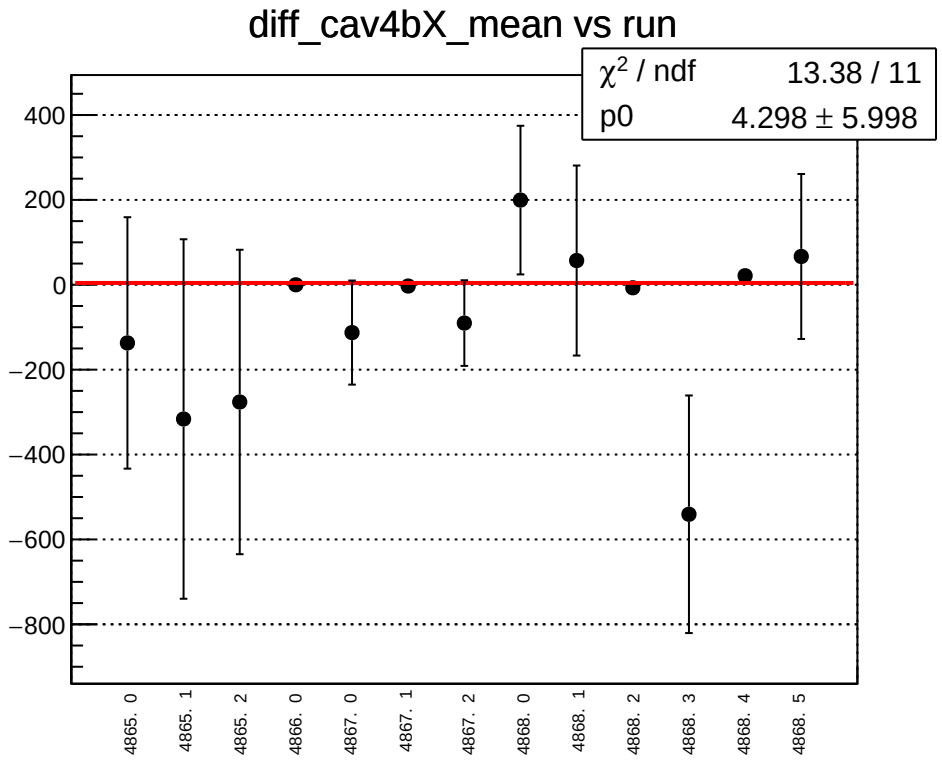

pull1D
Entries 13
Mean 2.983
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

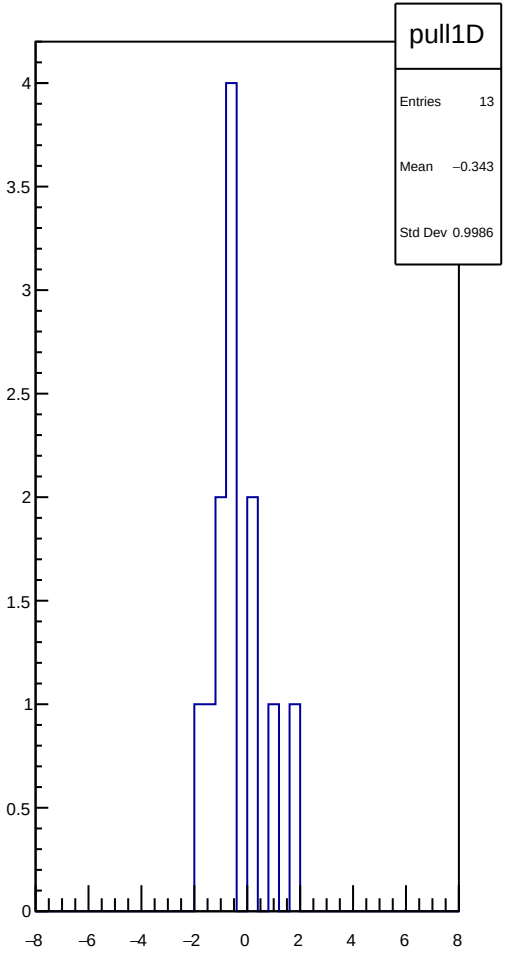

yield_bpm0l01X_rms vs run
χ² / ndf 4439 / 11
p0 0.009143 ± 1.884e−05
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

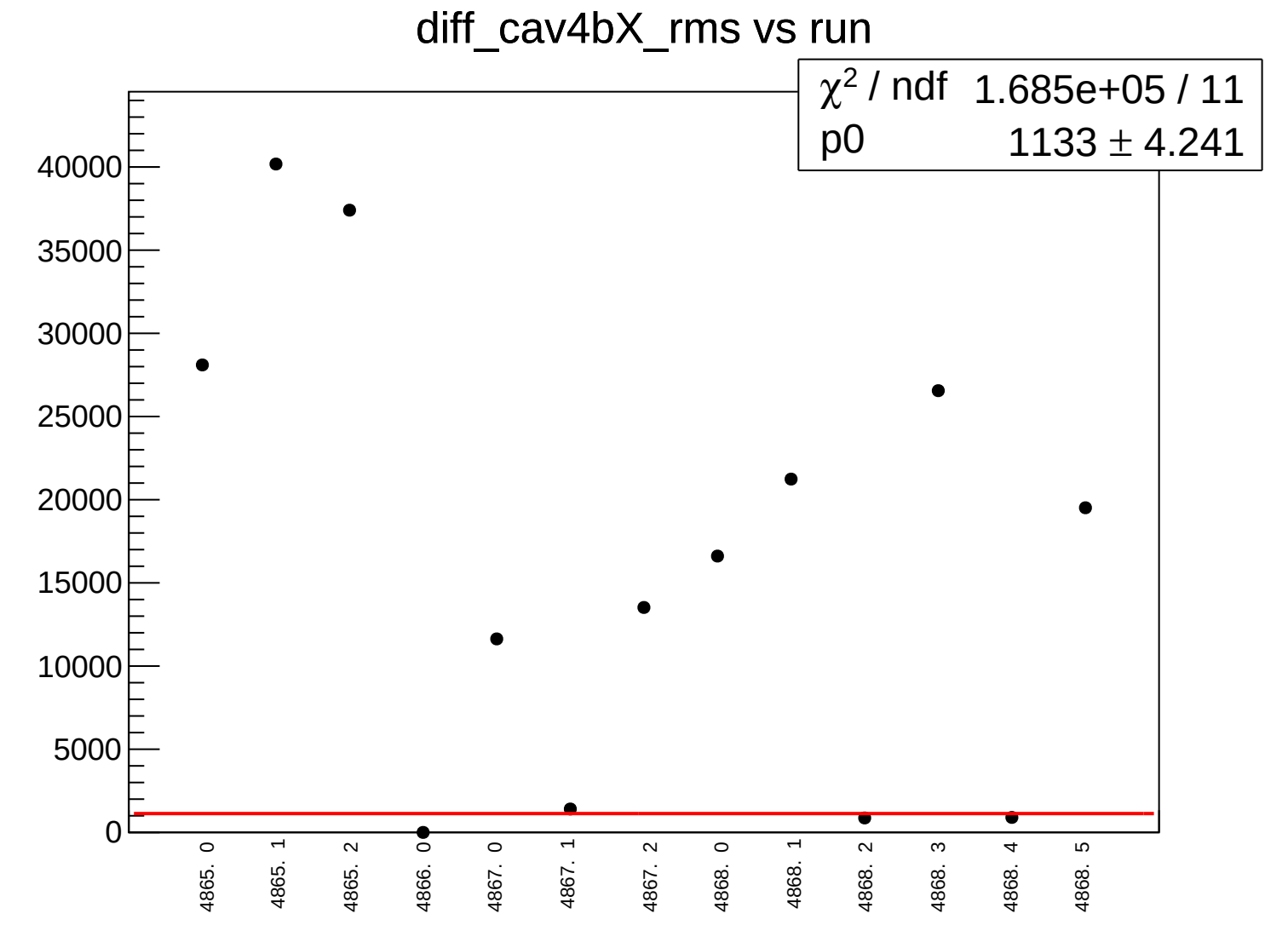

yield_bpm0l01Y_mean vs run
χ² / ndf 2.576e+05 / 11
p0 −5.621 ± 2.09e−05
0
−1
−2
−3
−4
−5
−6
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

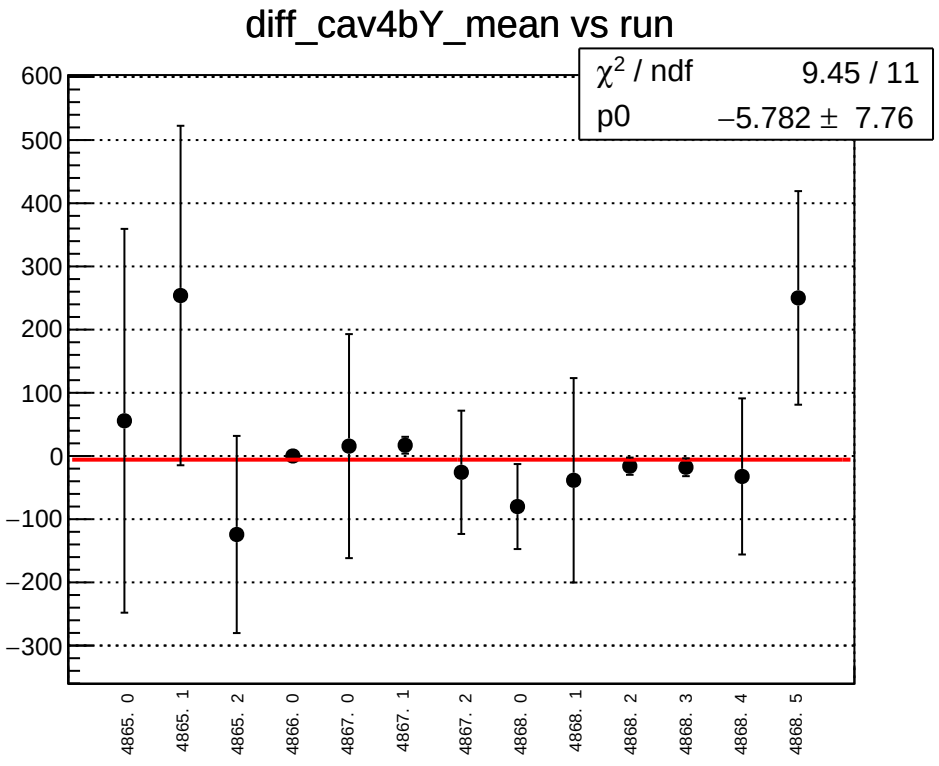

pull1D
Entries 13
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

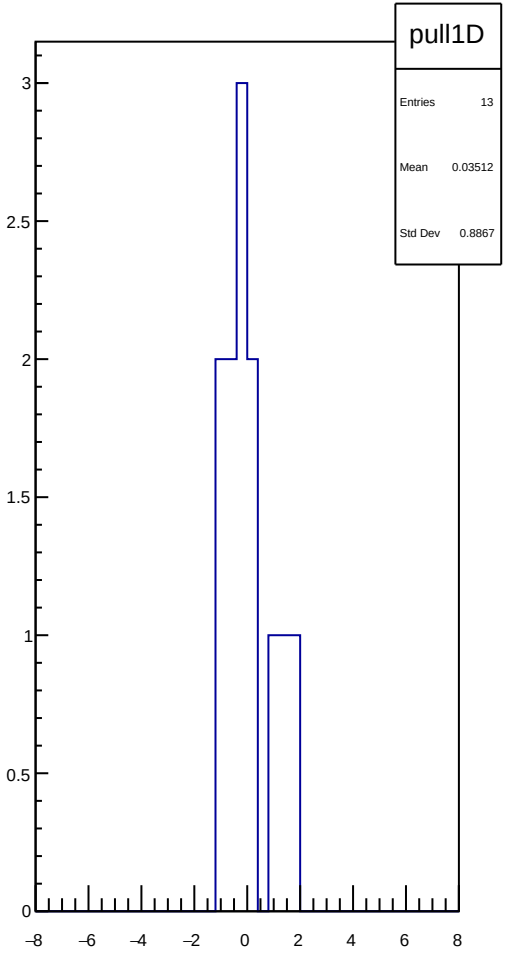

yield_bpm0l01Y_rms vs run
χ² / ndf 2794 / 11
p0 0.007196 ± 1.478e−05
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

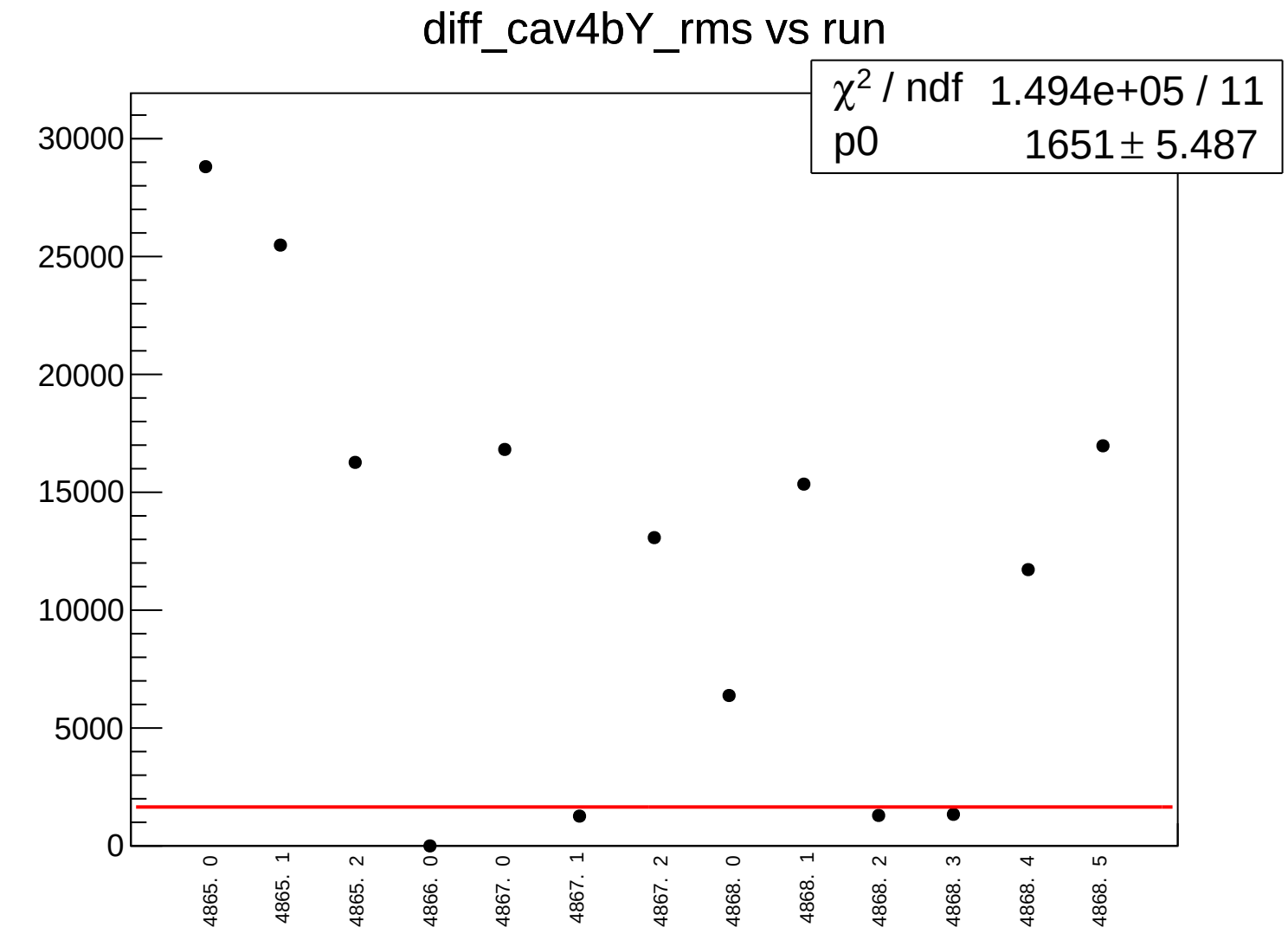

diff_cav4bX_mean vs run
χ² / ndf 13.38 / 11
p0 4.298 ± 5.998
400
200
0
−200
−400
−600
−800
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

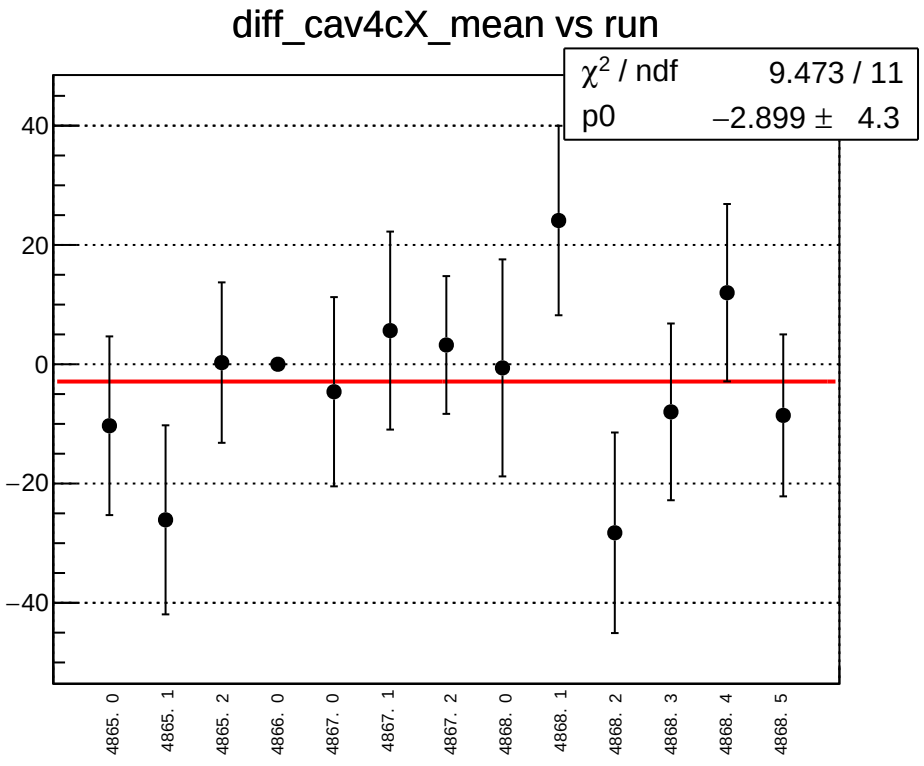

pull1D
Entries 13
Mean −0.343
Std Dev 0.9986
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

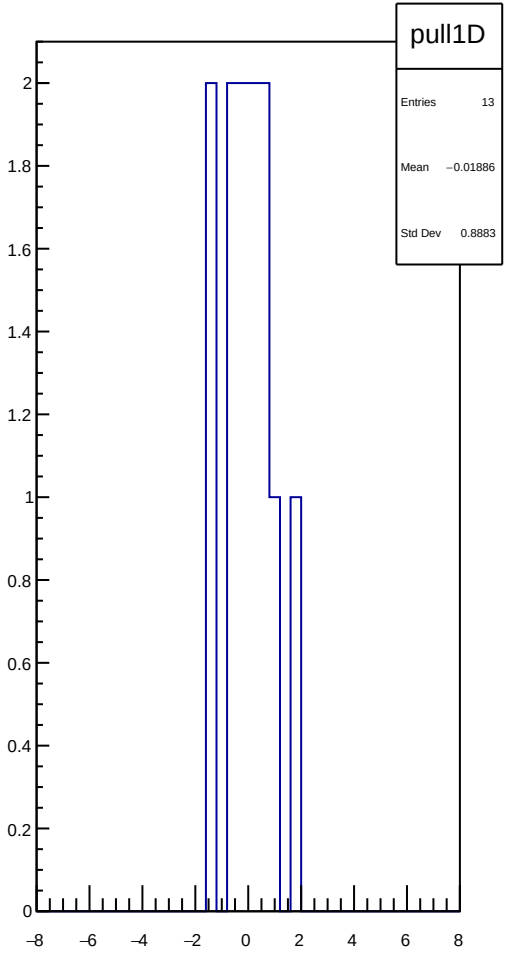

diff_cav4bX_rms vs run
χ² / ndf 1.685e+05 / 11
p0 1133 ± 4.241
40000
35000
30000
25000
20000
15000
10000
5000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

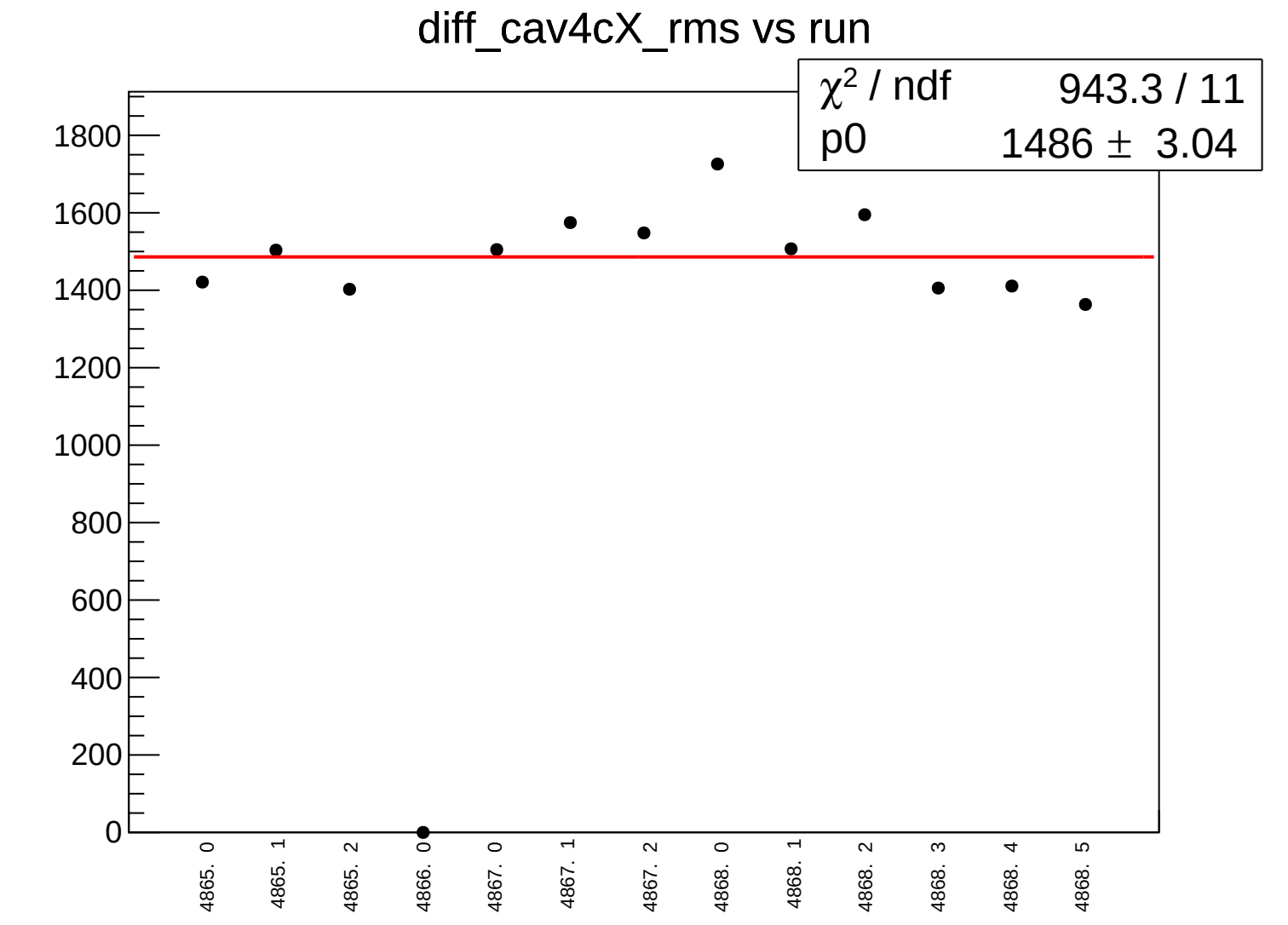

diff_cav4bY_mean vs run
χ² / ndf 9.45 / 11
p0 −5.782 ± 7.76
600
500
400
300
200
100
0
−100
−200
−300
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

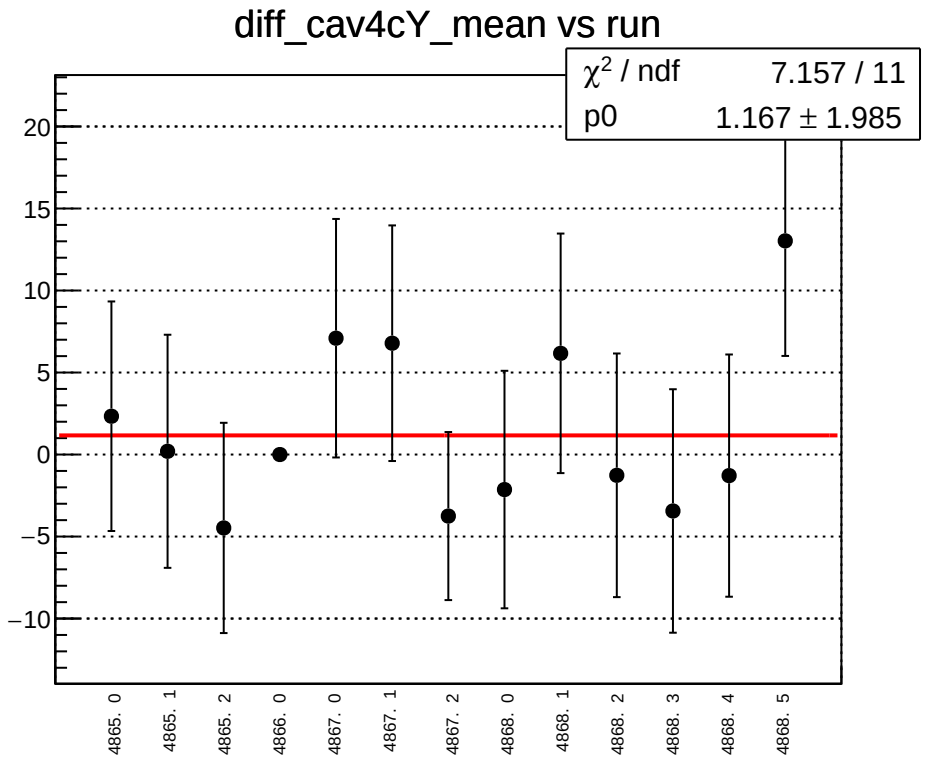

pull1D
Entries 13
Mean 0.03512
Std Dev 0.8867
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

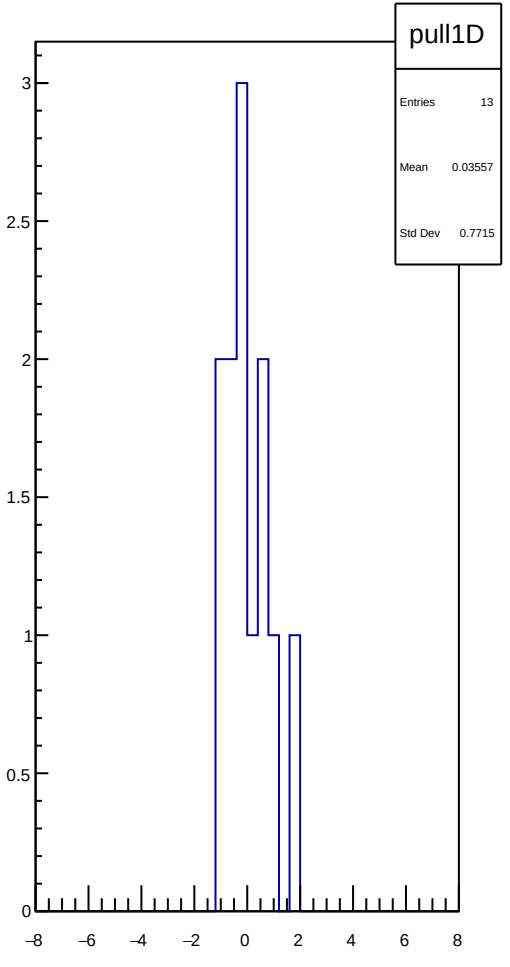

diff_cav4bY_rms vs run
χ² / ndf 1.494e+05 / 11
p0 1651 ± 5.487
30000
25000
20000
15000
10000
5000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

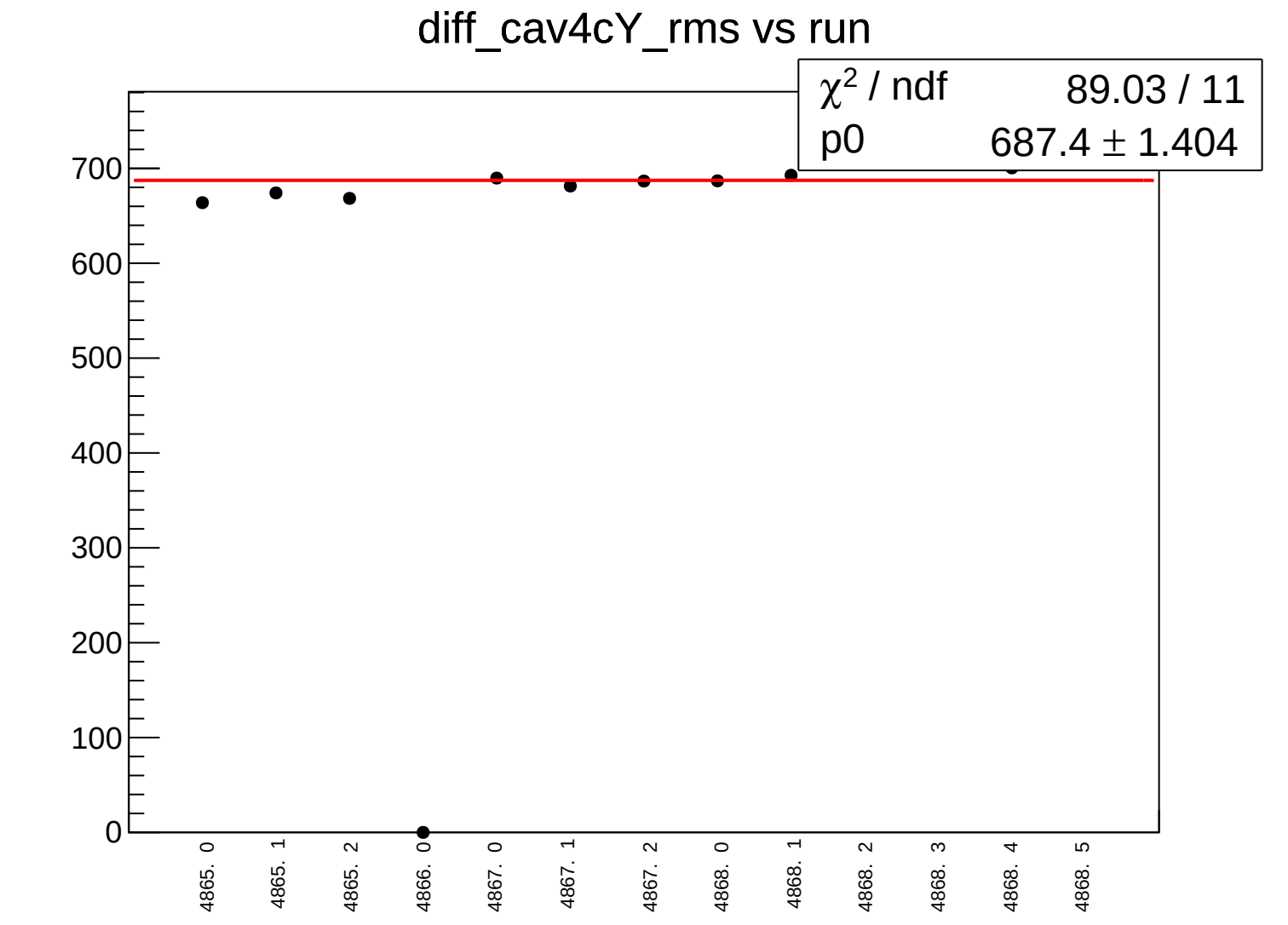

diff_cav4cX_mean vs run
χ² / ndf 9.473 / 11
p0 −2.899 ± 4.3
40
20
0
−20
−40
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

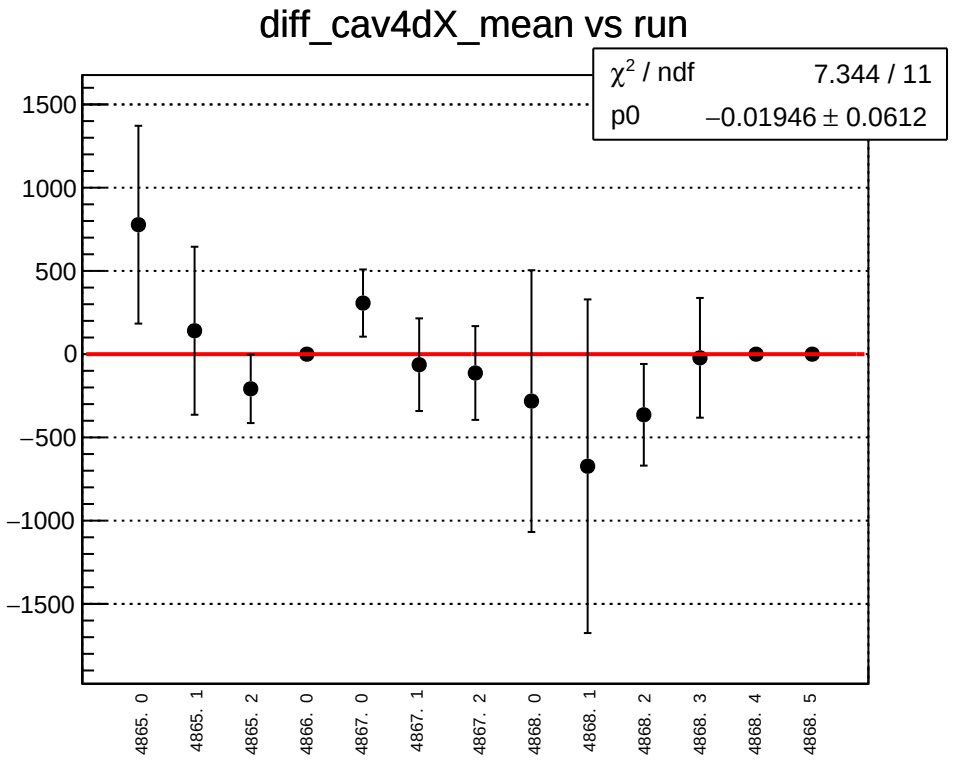

pull1D
Entries 13
Mean −0.01886
Std Dev 0.8883
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

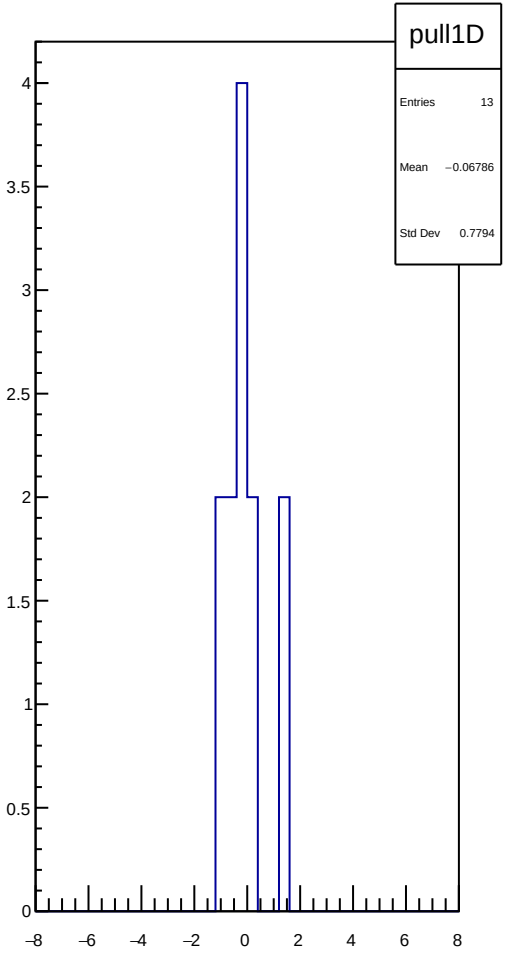

diff_cav4cX_rms vs run
χ² / ndf 943.3 / 11
p0 1486 ± 3.04
1800
1600
1400
1200
1000
800
600
400
200
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

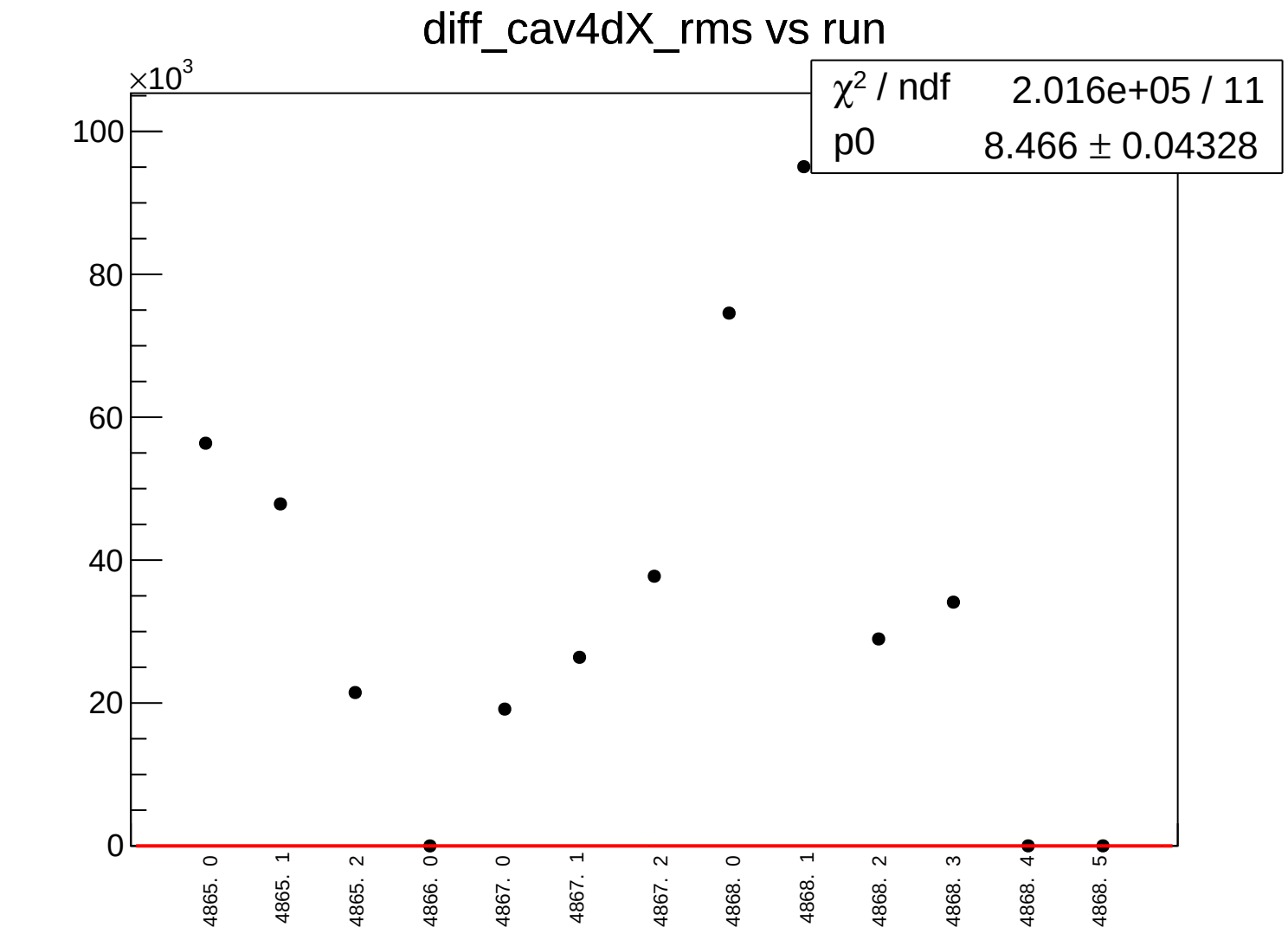

diff_cav4cY_mean vs run
χ² / ndf 7.157 / 11
p0 1.167 ± 1.985
20
15
10
5
0
−5
−10
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

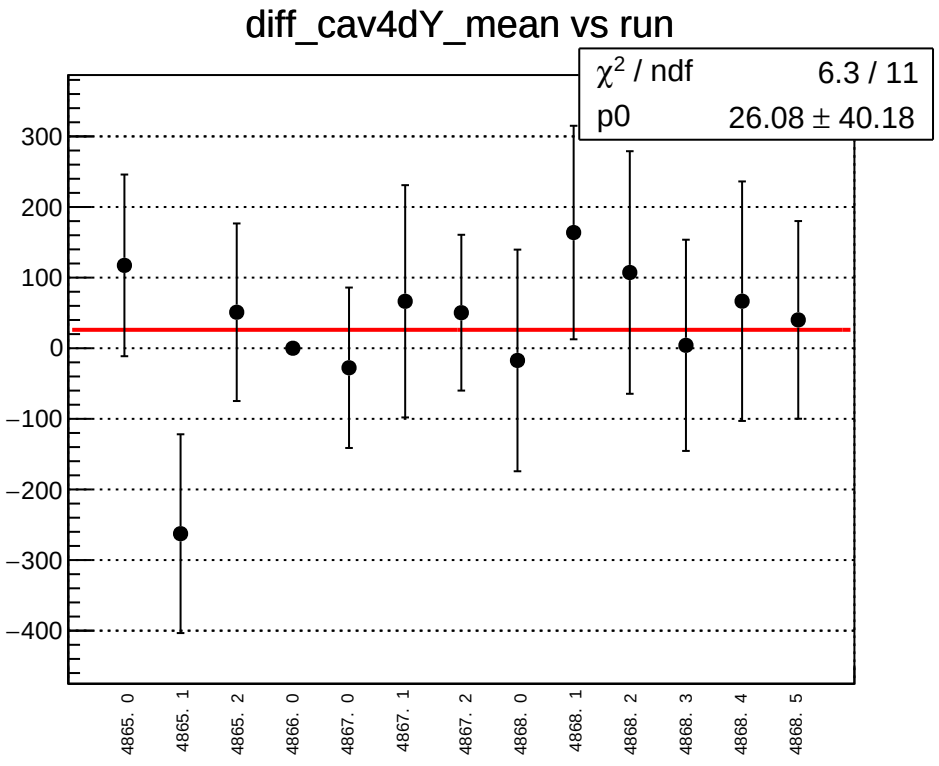

pull1D
Entries 13
Mean 0.03557
Std Dev 0.7715
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

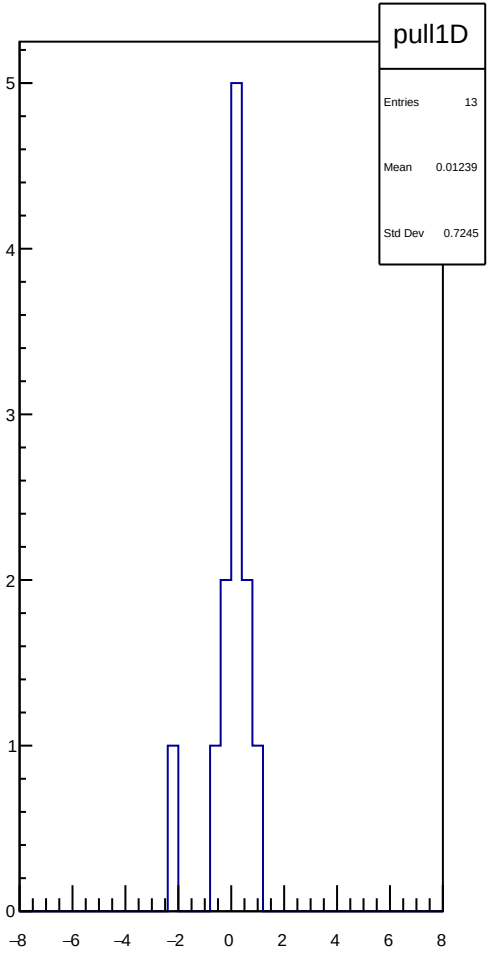

diff_cav4cY_rms vs run
χ² / ndf 89.03 / 11
p0 687.4 ± 1.404
700
600
500
400
300
200
100
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

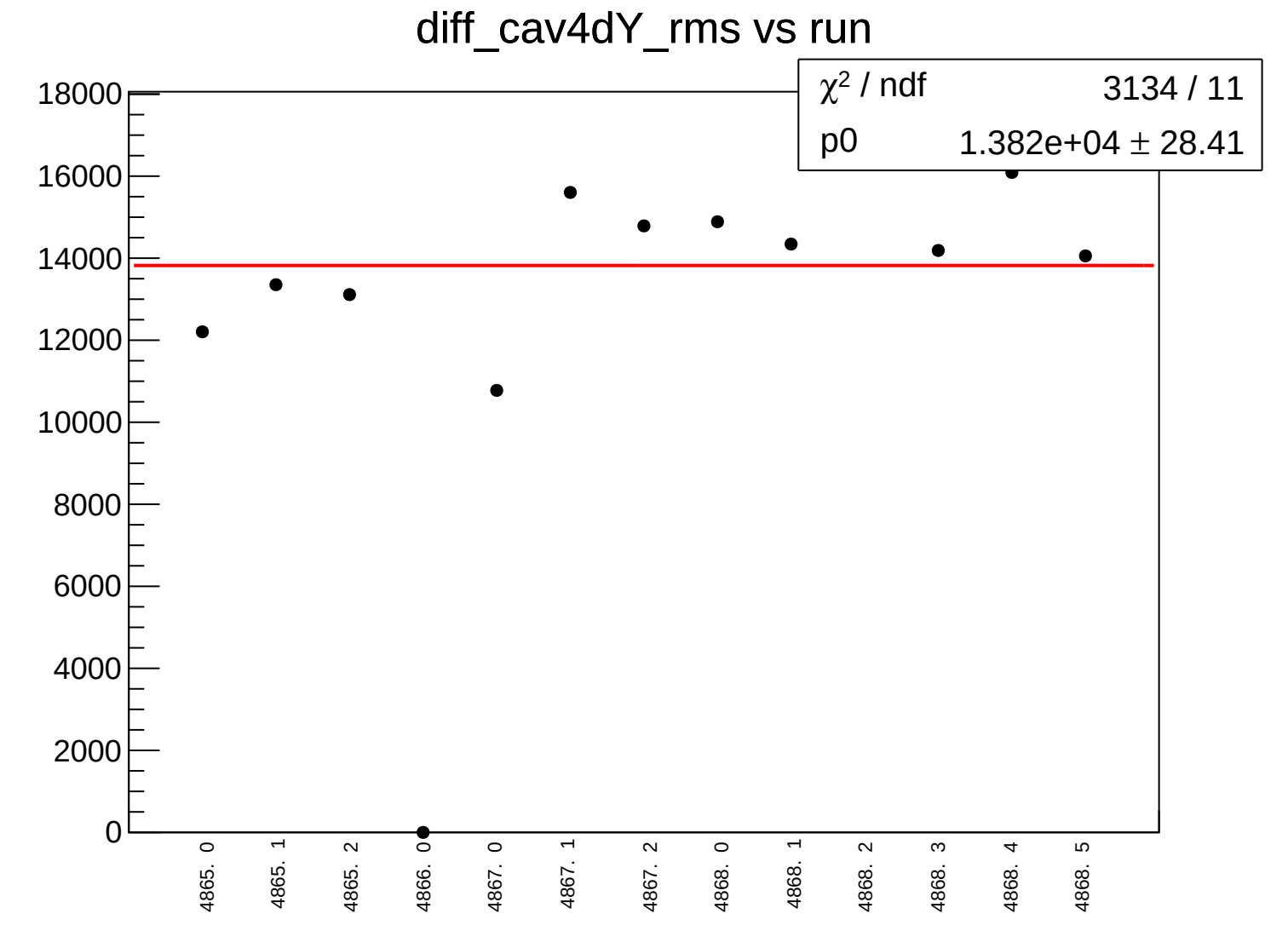

diff_cav4dX_mean vs run
χ² / ndf 7.344 / 11
p0 −0.01946 ± 0.0612
1500
1000
500
0
−500
−1000
−1500
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

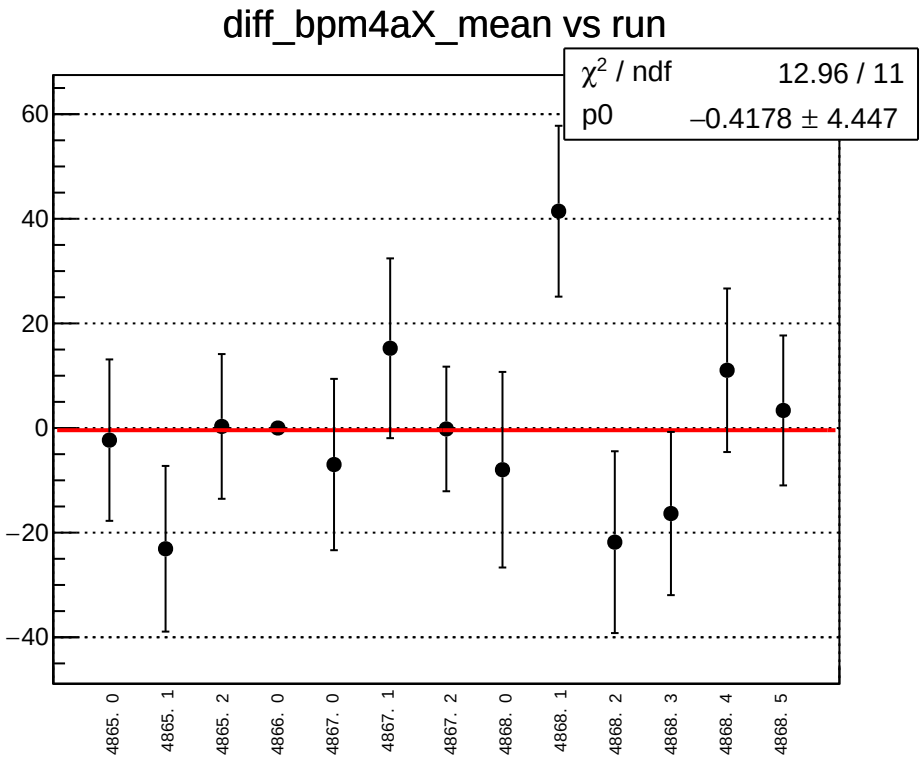

pull1D
Entries 13
Mean −0.06786
Std Dev 0.7794
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

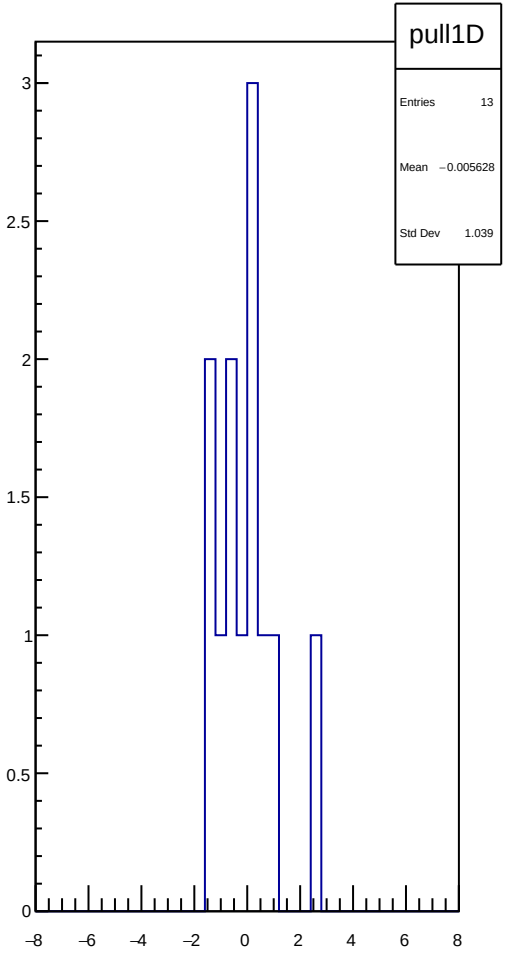

diff_cav4dX_rms vs run
×10^3
χ² / ndf 2.016e+05 / 11
p0 8.466 ± 0.04328
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

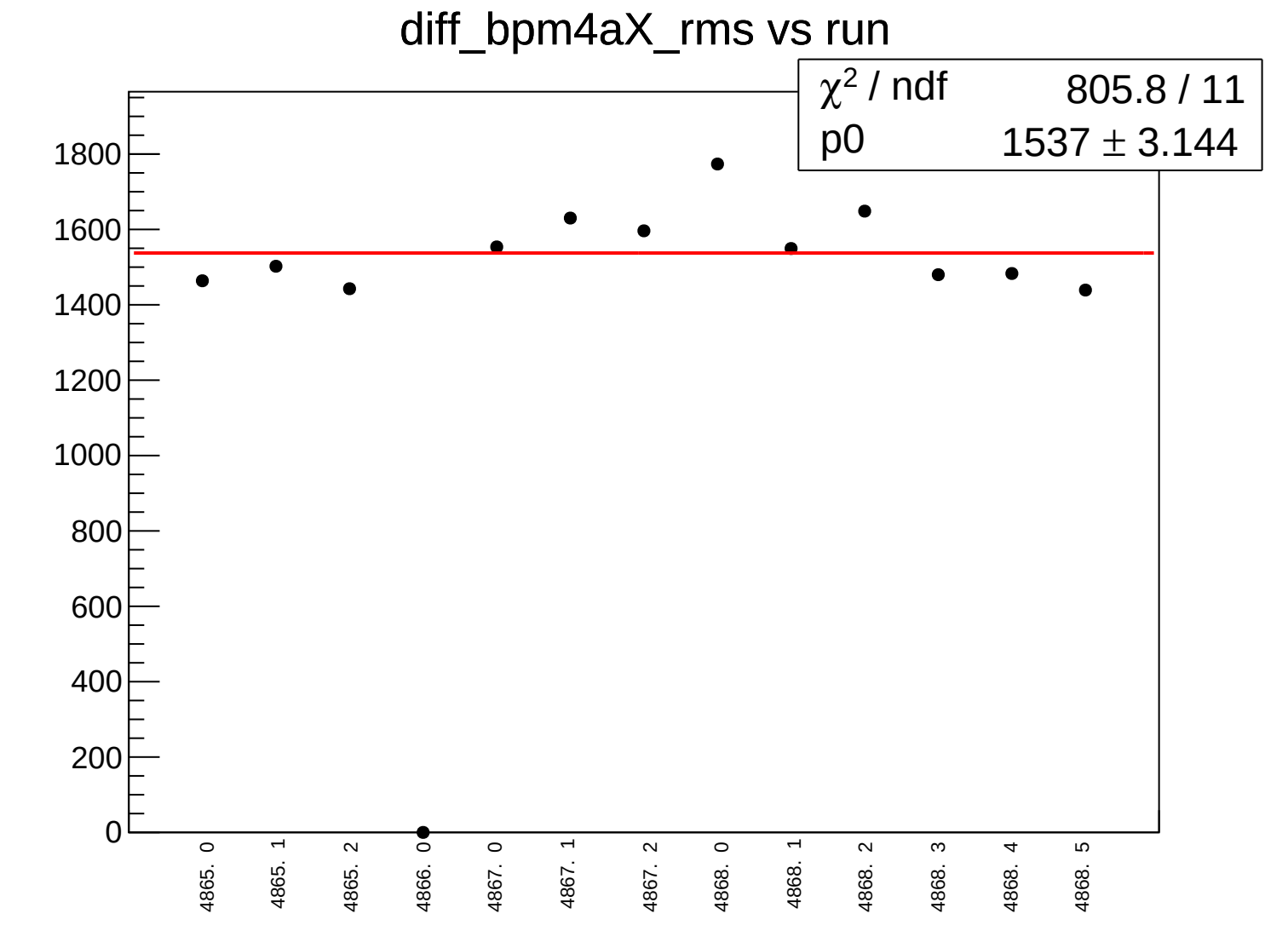

diff_cav4dY_mean vs run
χ² / ndf 6.3 / 11
p0 26.08 ± 40.18
300
200
100
0
−100
−200
−300
−400
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

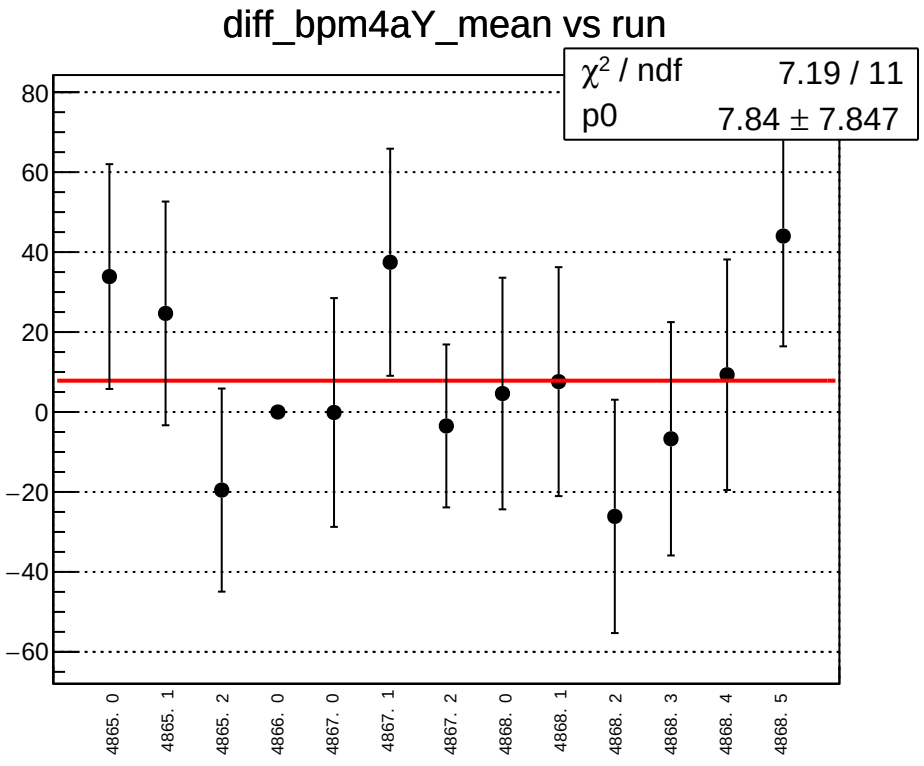

pull1D
Entries 13
Mean 0.01239
Std Dev 0.7245
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

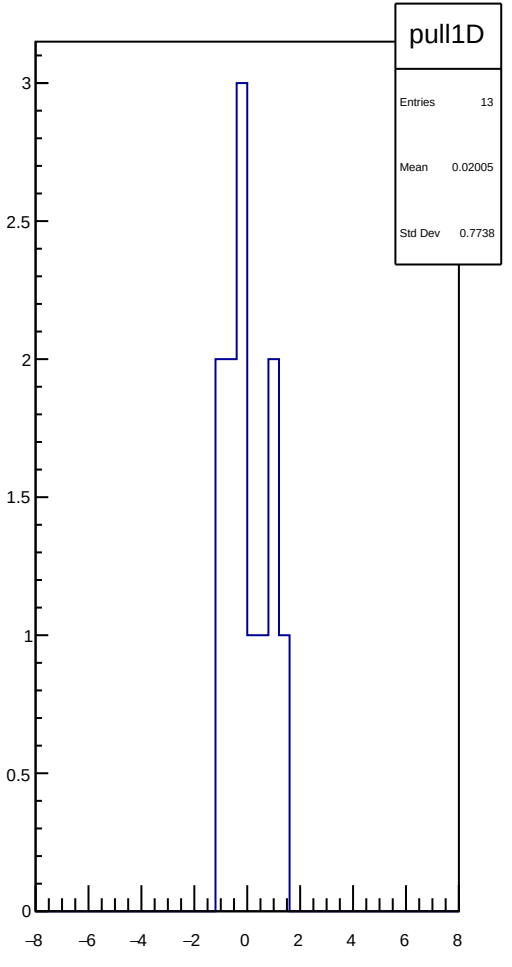

diff_cav4dY_rms vs run
χ² / ndf 3134 / 11
p0 1.382e+04 ± 28.41
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

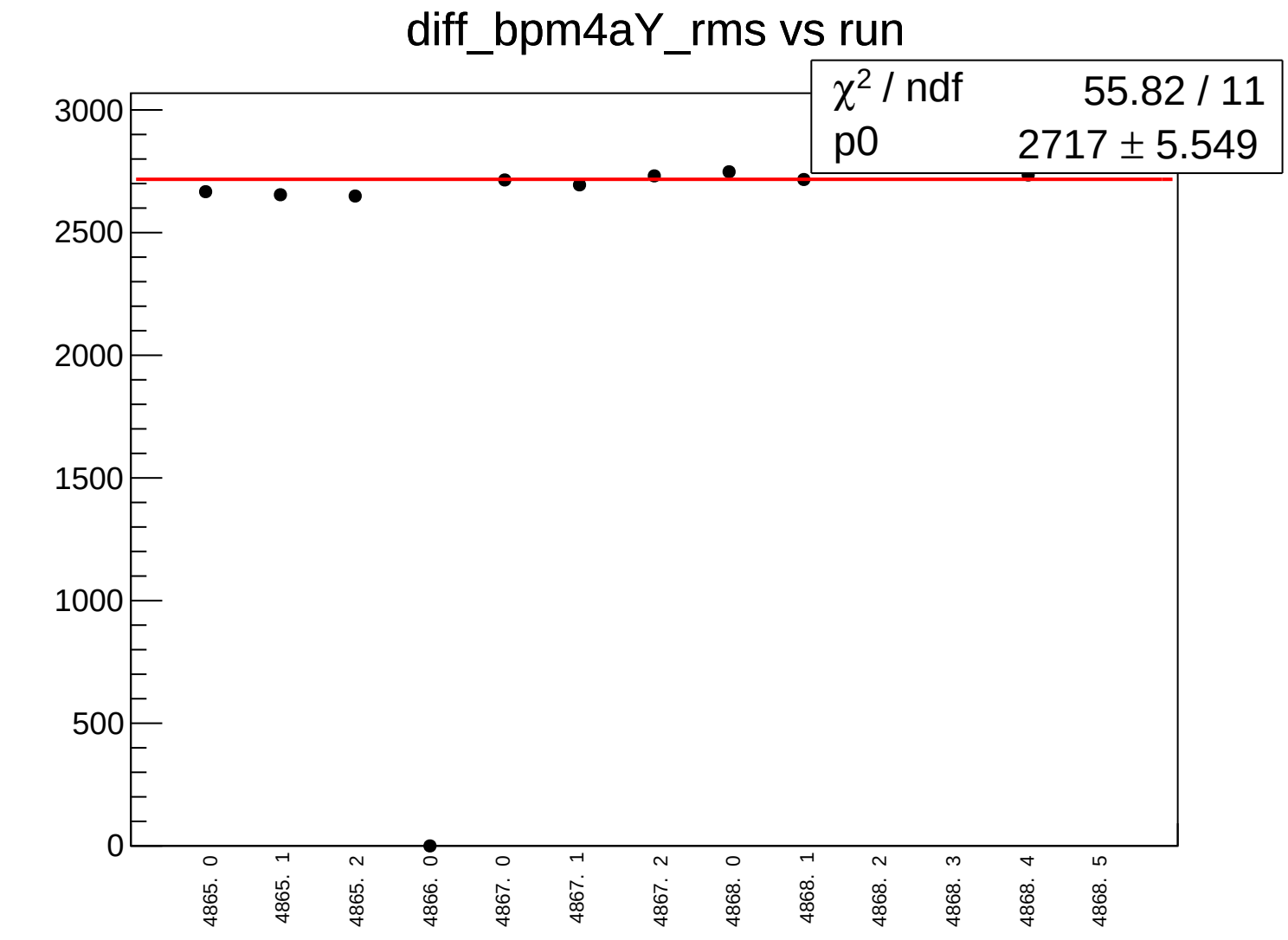

diff_bpm4aX_mean vs run
χ² / ndf 12.96 / 11
p0 −0.4178 ± 4.447
60
40
20
0
−20
−40
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

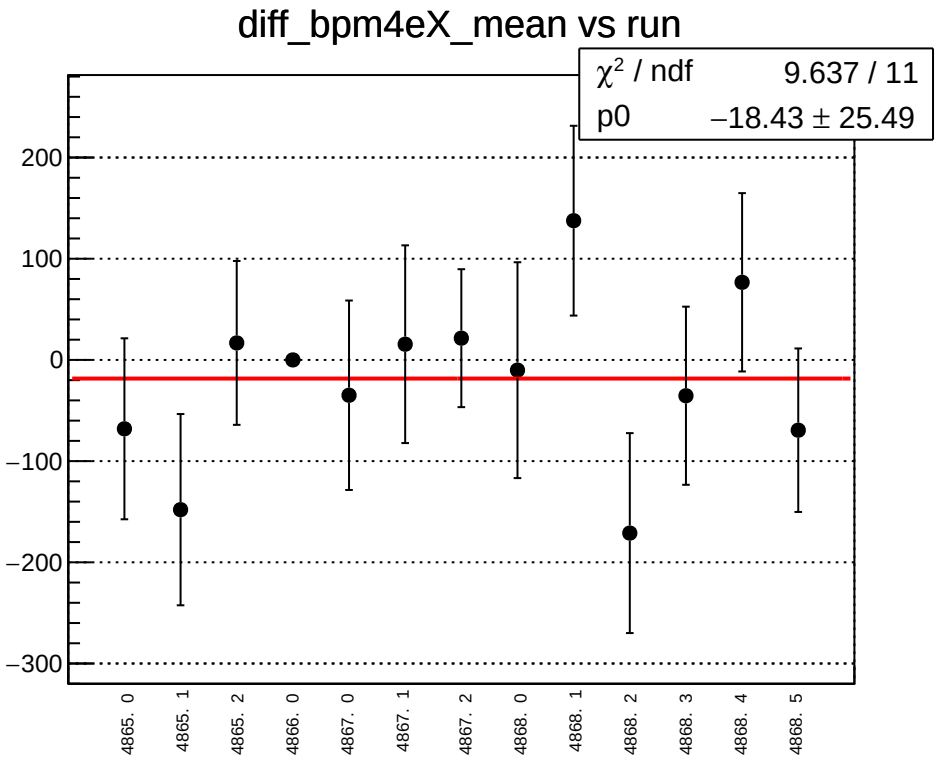

pull1D
Entries 13
Mean −0.005628
Std Dev 1.039
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

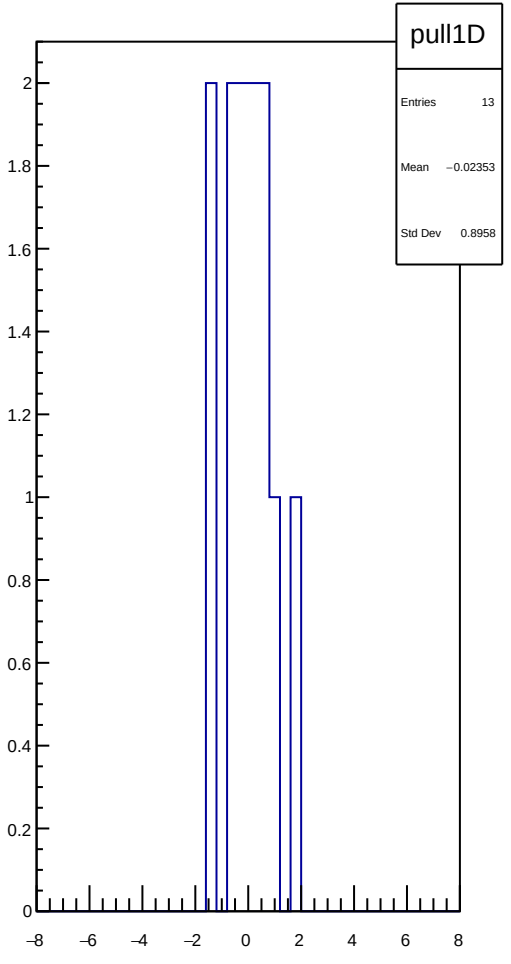

diff_bpm4aX_rms vs run
χ² / ndf 805.8 / 11
p0 1537 ± 3.144
1800
1600
1400
1200
1000
800
600
400
200
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

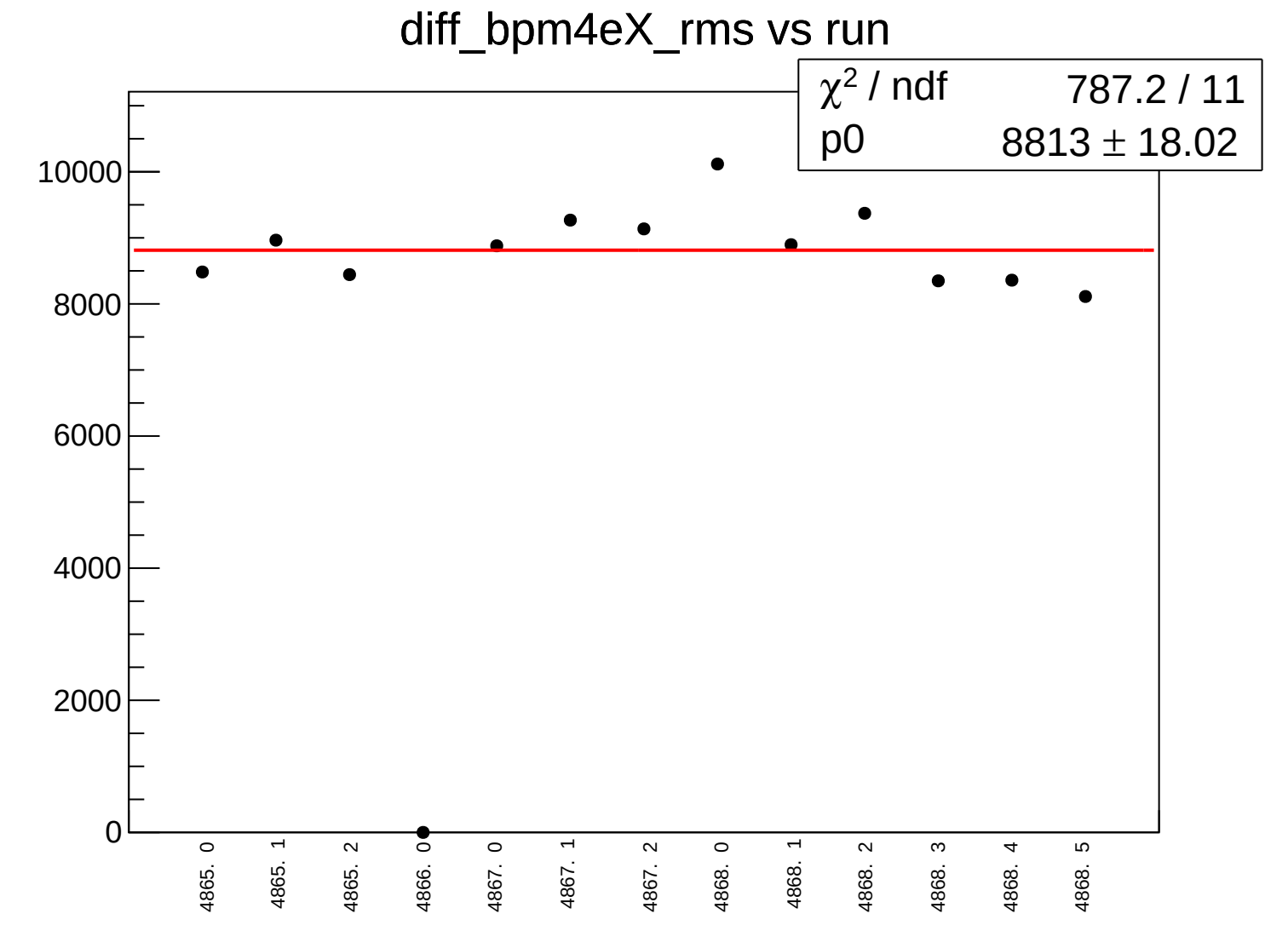

diff_bpm4aY_mean vs run
χ² / ndf 7.19 / 11
p0 7.84 ± 7.847
80
60
40
20
0
−20
−40
−60
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

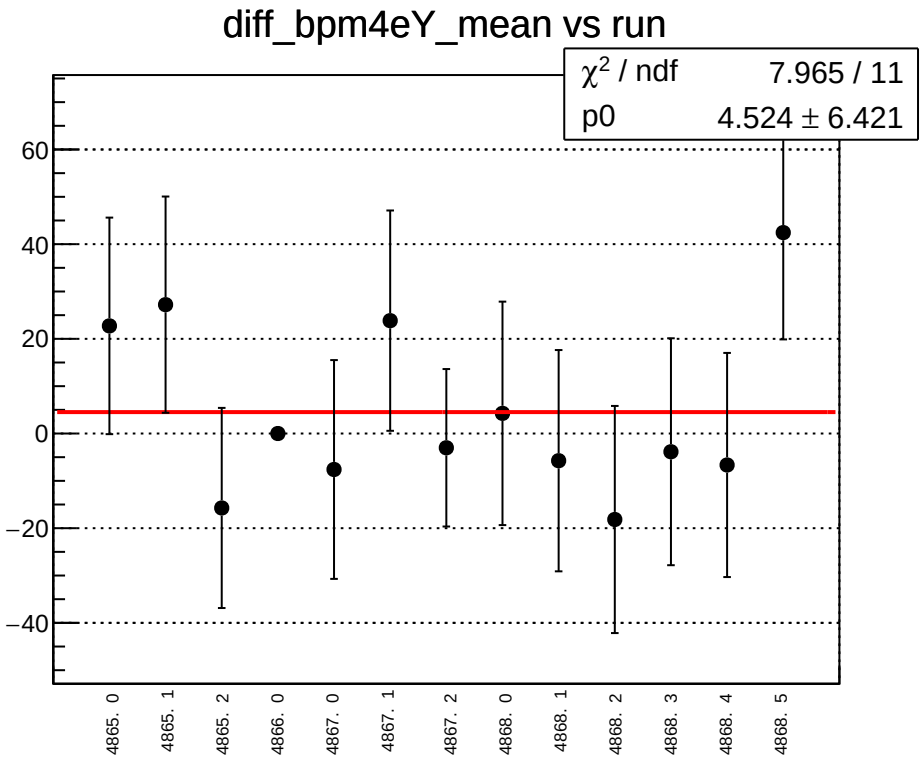

pull1D
Entries 13
Mean 0.02005
Std Dev 0.7738
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

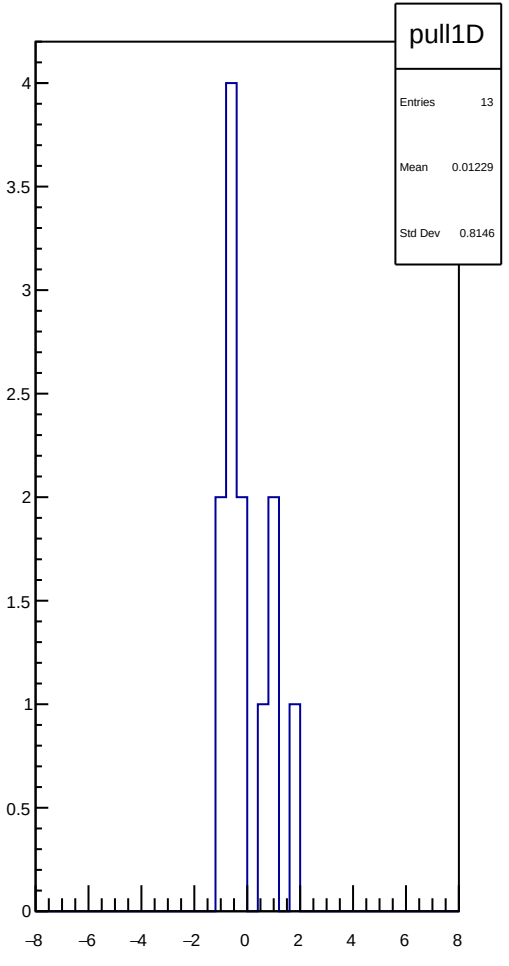

diff_bpm4aY_rms vs run
χ² / ndf 55.82 / 11
p0 2717 ± 5.549
3000
2500
2000
1500
1000
500
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

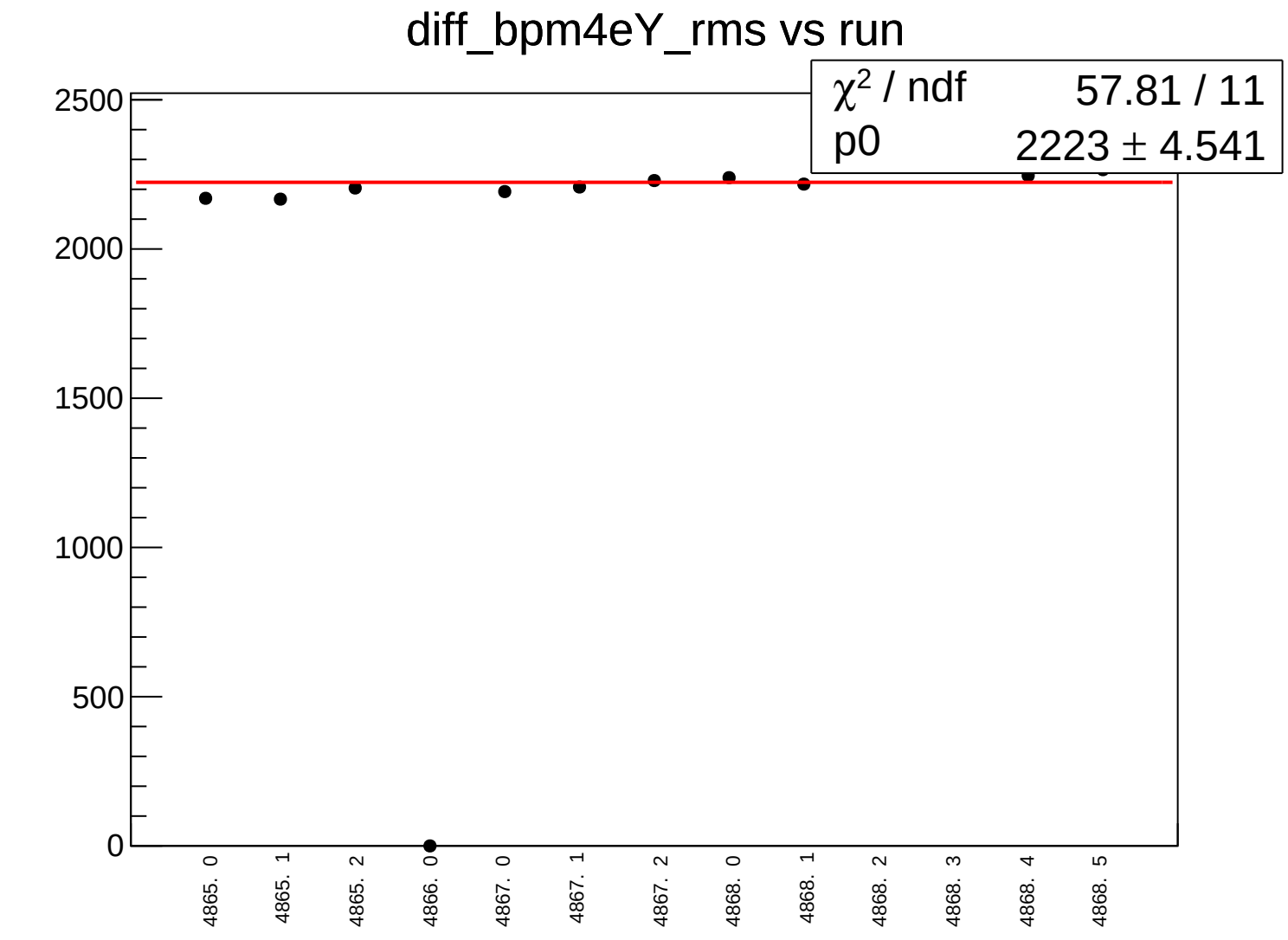

diff_bpm4eX_mean vs run
χ² / ndf 9.637 / 11
p0 −18.43 ± 25.49
200
100
0
−100
−200
−300
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

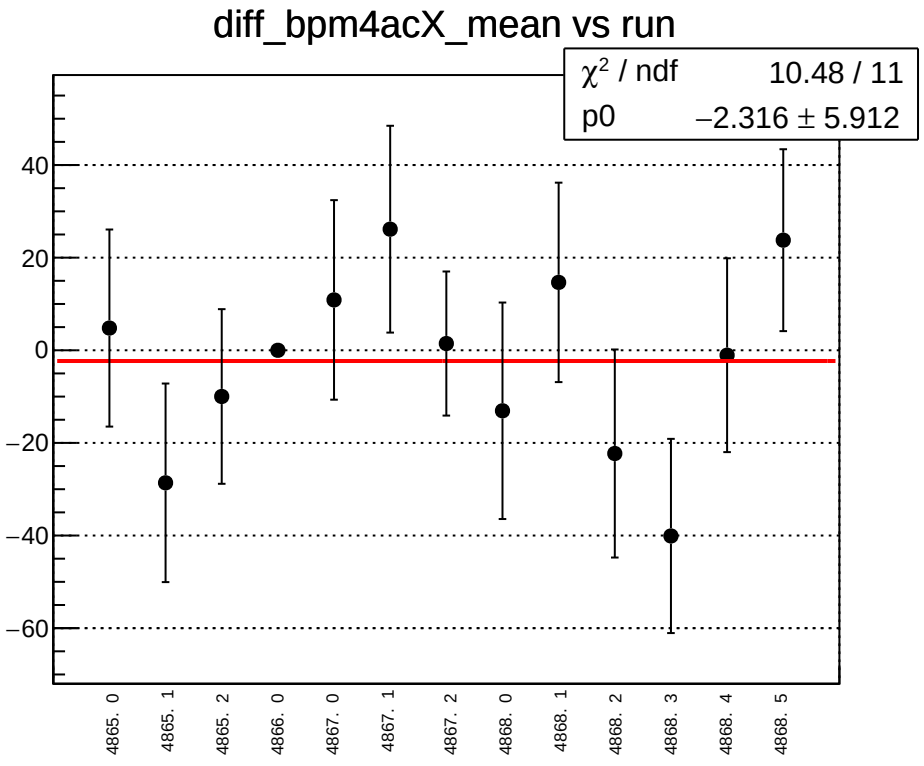

pull1D
Entries 13
Mean −0.02353
Std Dev 0.8958
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

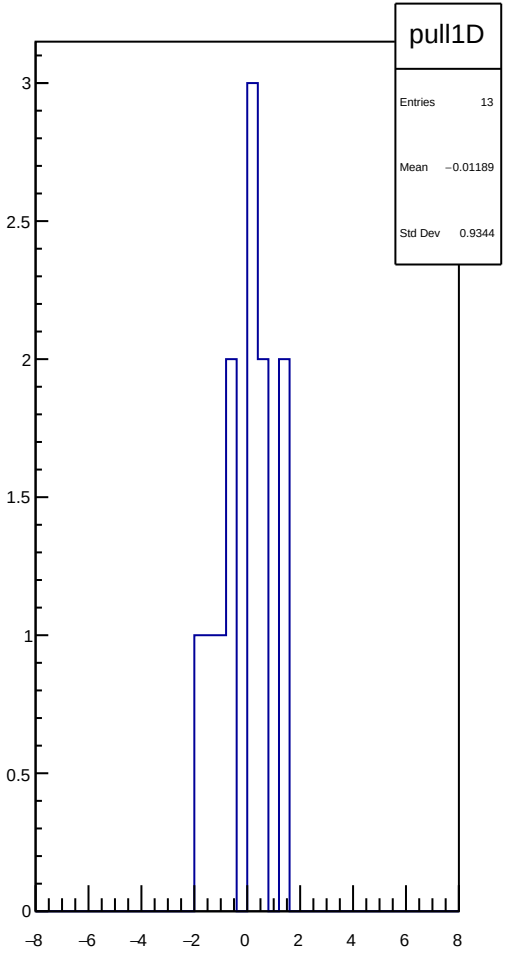

diff_bpm4eX_rms vs run
χ² / ndf 787.2 / 11
p0 8813 ± 18.02
10000
8000
6000
4000
2000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

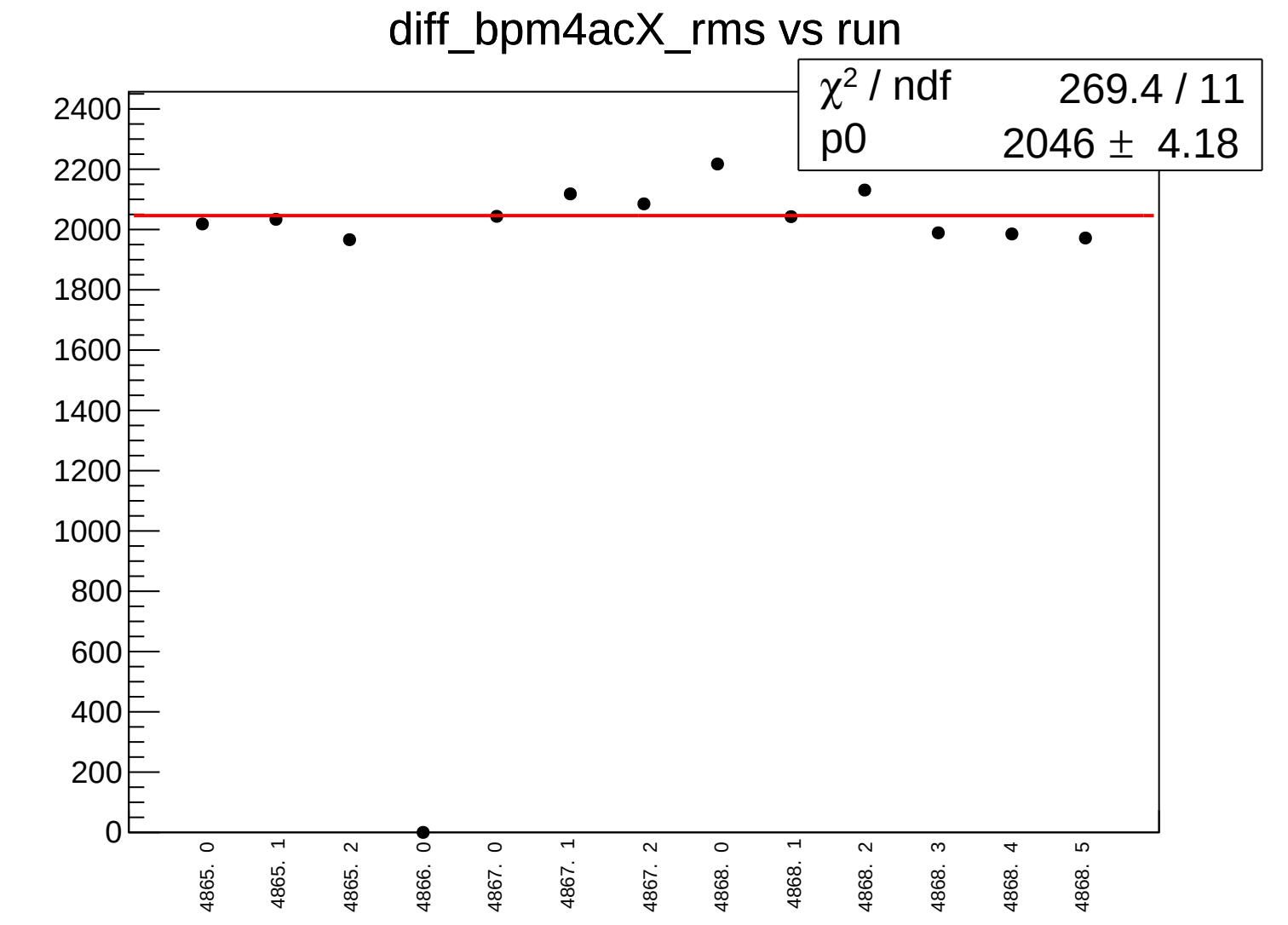

diff_bpm4eY_mean vs run
χ² / ndf 7.965 / 11
p0 4.524 ± 6.421
60
40
20
0
−20
−40
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

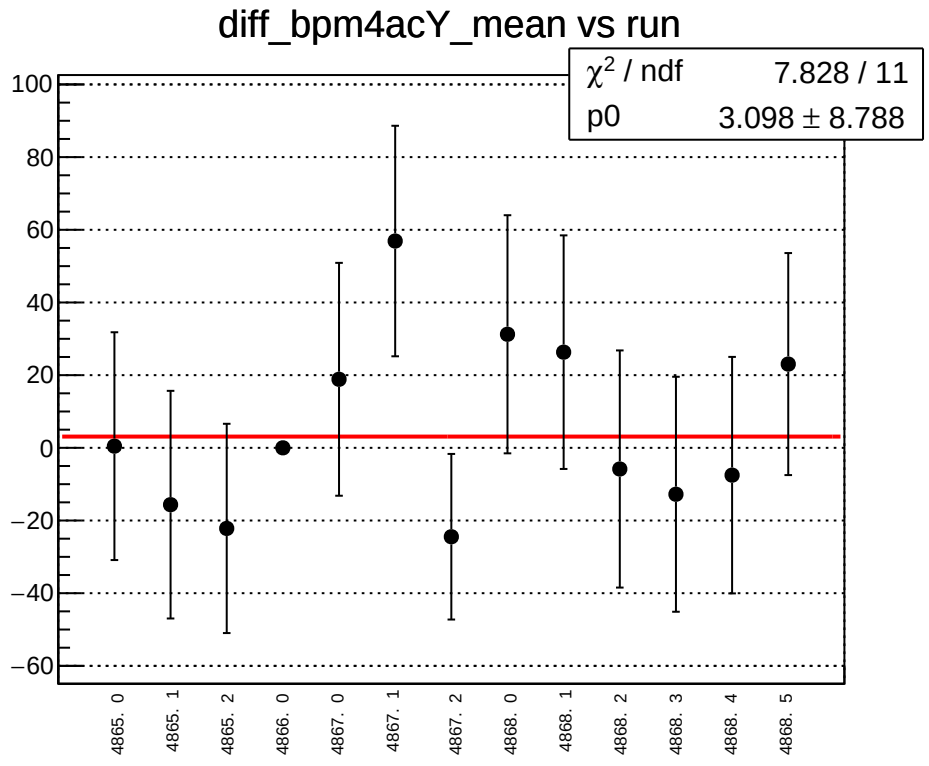

pull1D
Entries 13
Mean 0.01229
Std Dev 0.8146
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

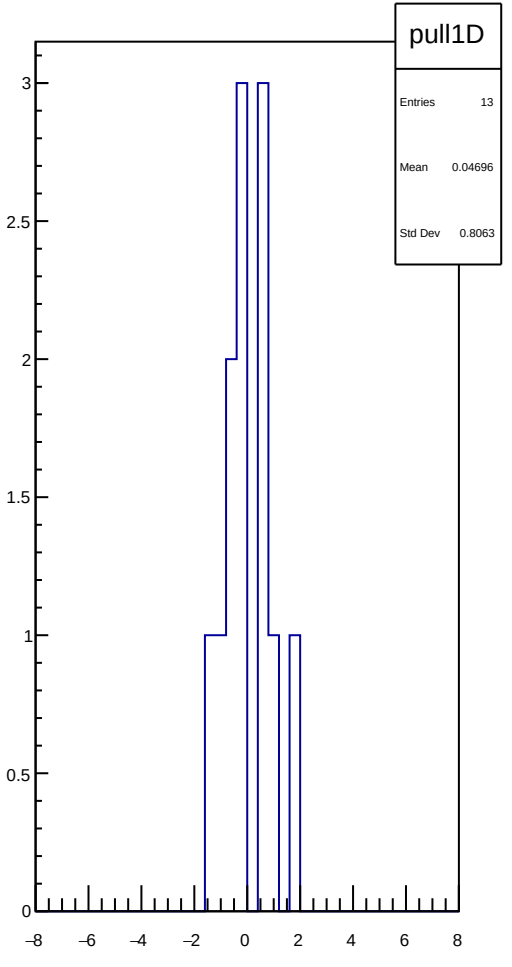

diff_bpm4eY_rms vs run
χ² / ndf 57.81 / 11
p0 2223 ± 4.541
2500
2000
1500
1000
500
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


diff_bpm4acX_mean vs run
χ² / ndf 10.48 / 11
p0 −2.316 ± 5.912
40
20
0
−20
−40
−60
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.01189
Std Dev 0.9344
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm4acX_rms vs run
χ² / ndf 269.4 / 11
p0 2046 ± 4.18
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


diff_bpm4acY_mean vs run
χ² / ndf 7.828 / 11
p0 3.098 ± 8.788
100
80
60
40
20
0
−20
−40
−60
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.04696
Std Dev 0.8063
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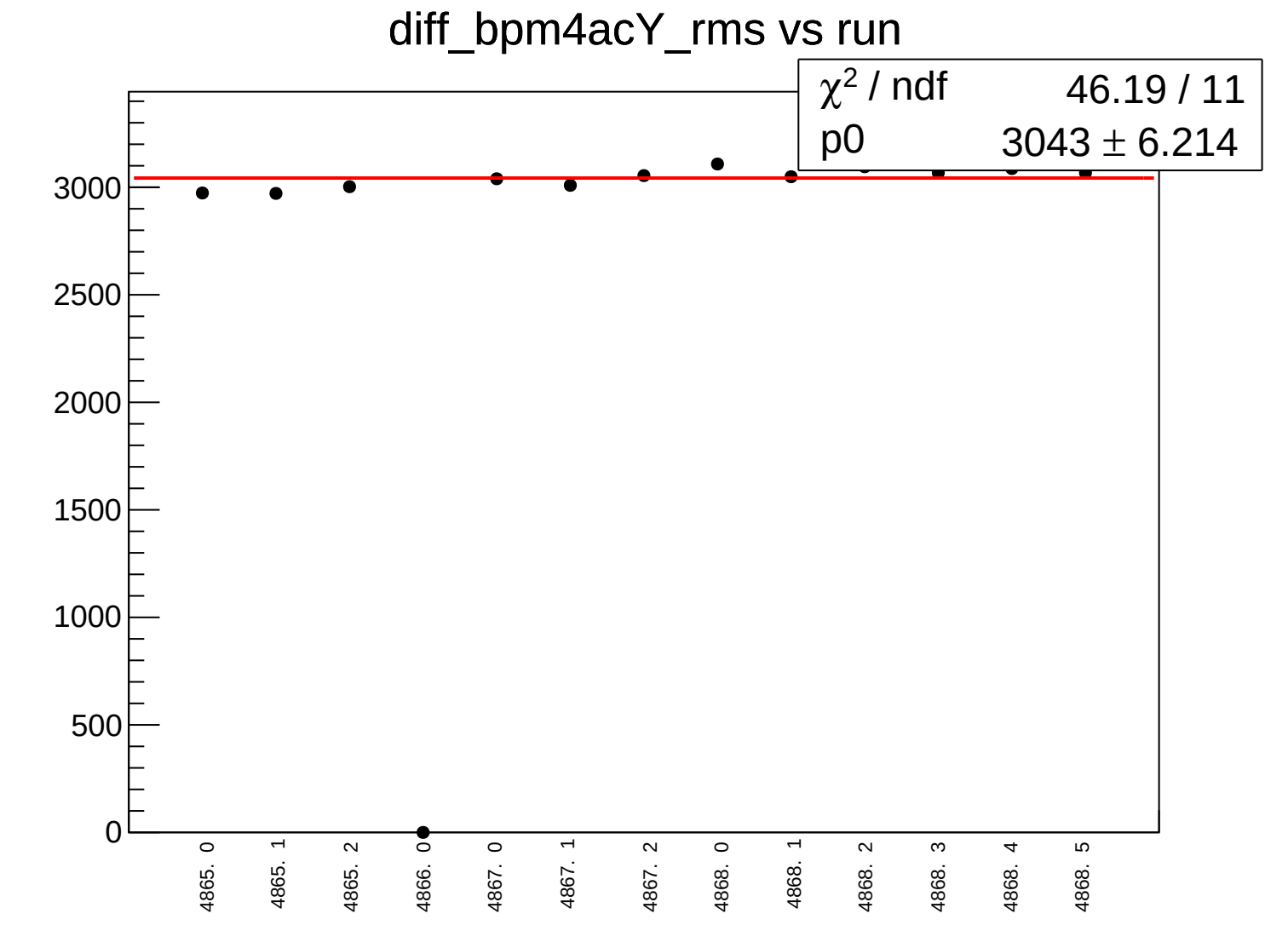
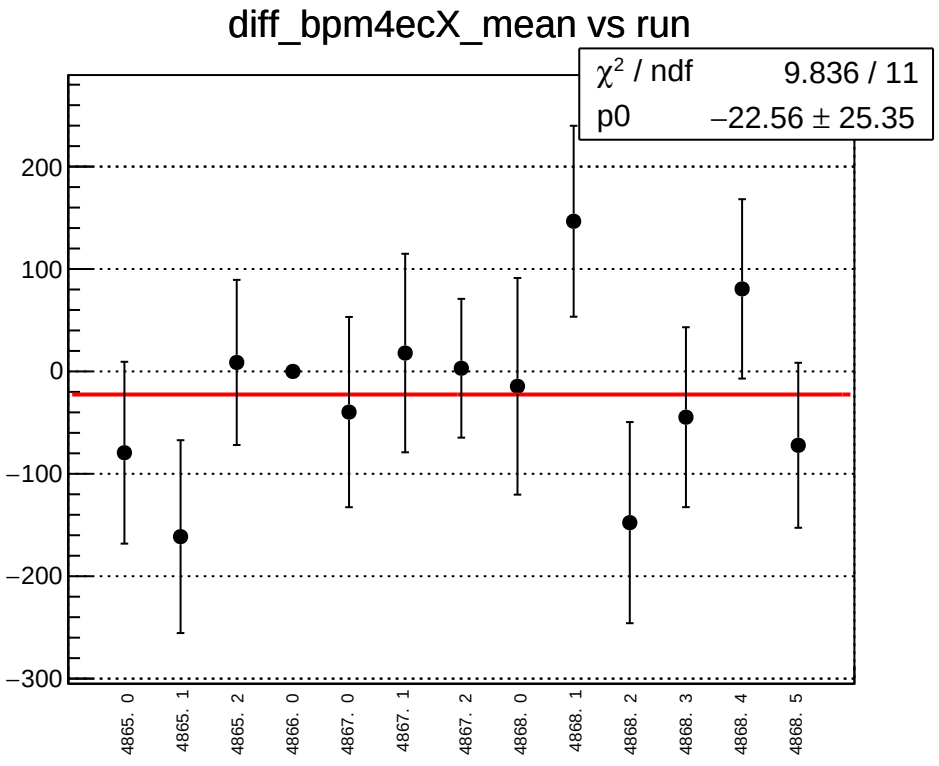
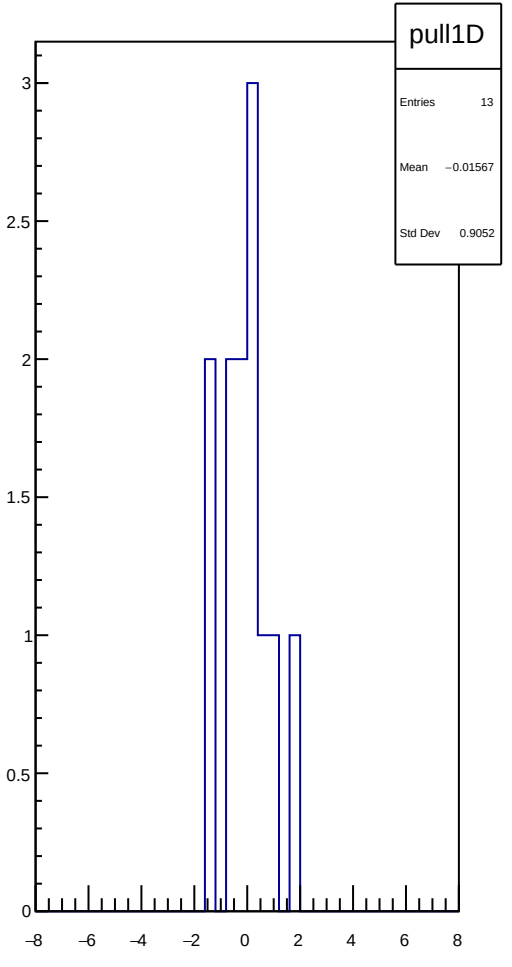
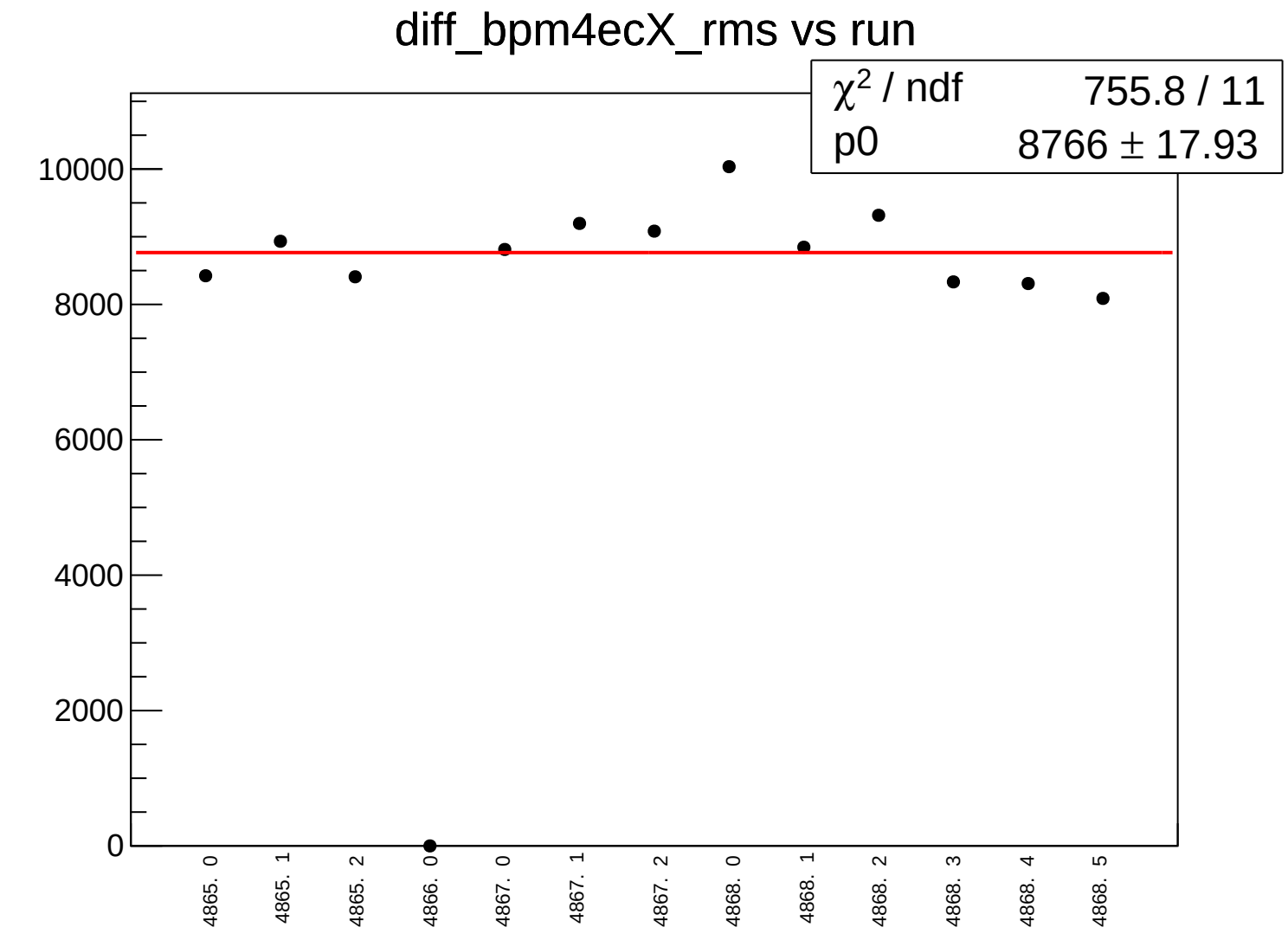
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm4acY_rms vs run
χ² / ndf 46.19 / 11
p0 3043 ± 6.214
3000
2500
2000
1500
1000
500
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


diff_bpm4ecX_mean vs run
χ² / ndf 9.836 / 11
p0 −22.56 ± 25.35
200
100
0
−100
−200
−300
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.01567
Std Dev 0.9052
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm4ecX_rms vs run
χ² / ndf 755.8 / 11
p0 8766 ± 17.93
10000
8000
6000
4000
2000
0
4865. 0
4865. 1
4865. 2
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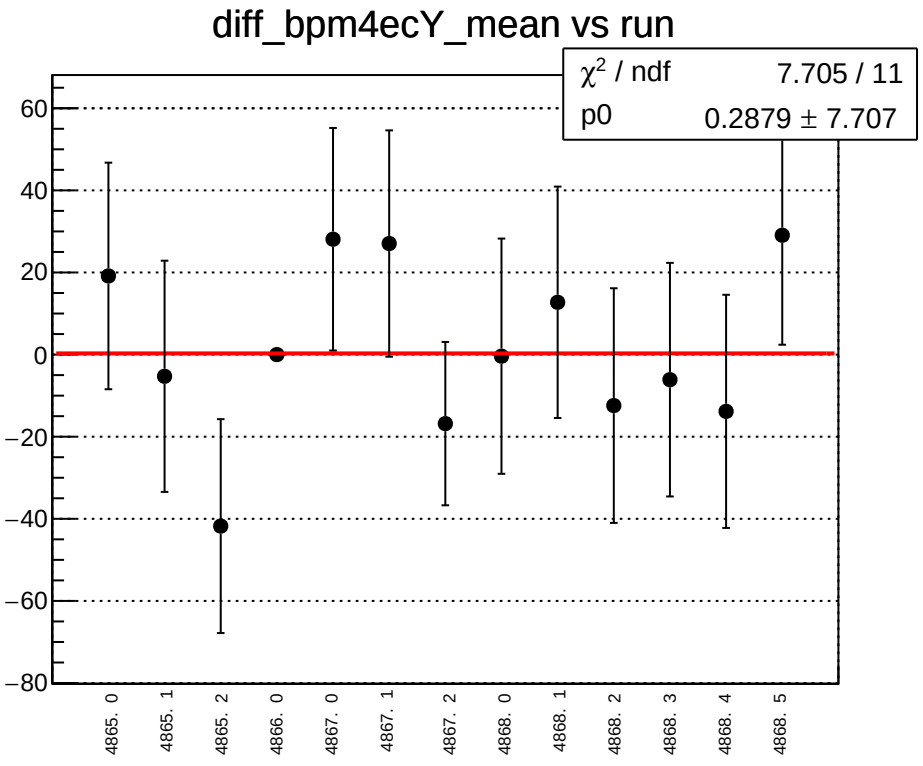
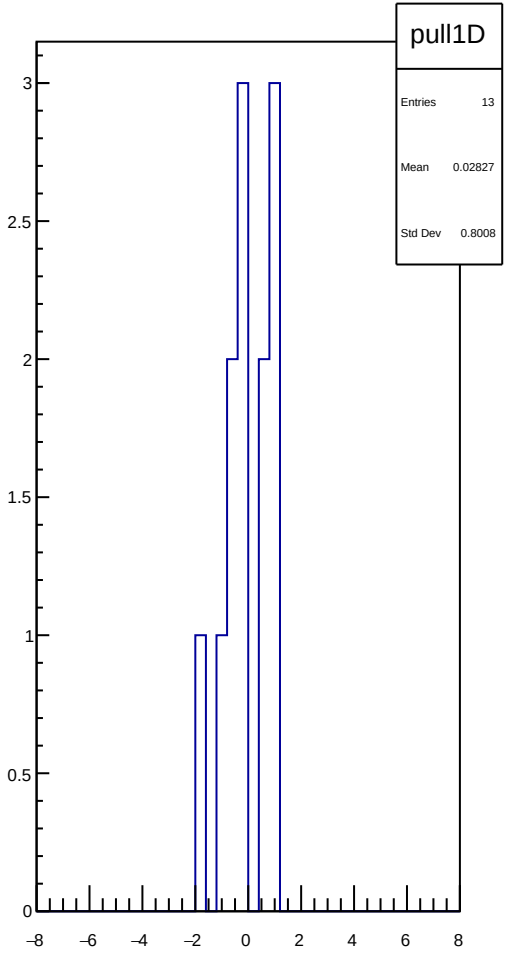
4868. 4
4868. 5


diff_bpm4ecY_mean vs run
χ² / ndf 7.705 / 11
p0 0.2879 ± 7.707
60
40
20
0
−20
−40
−60
−80
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.02827
Std Dev 0.8008
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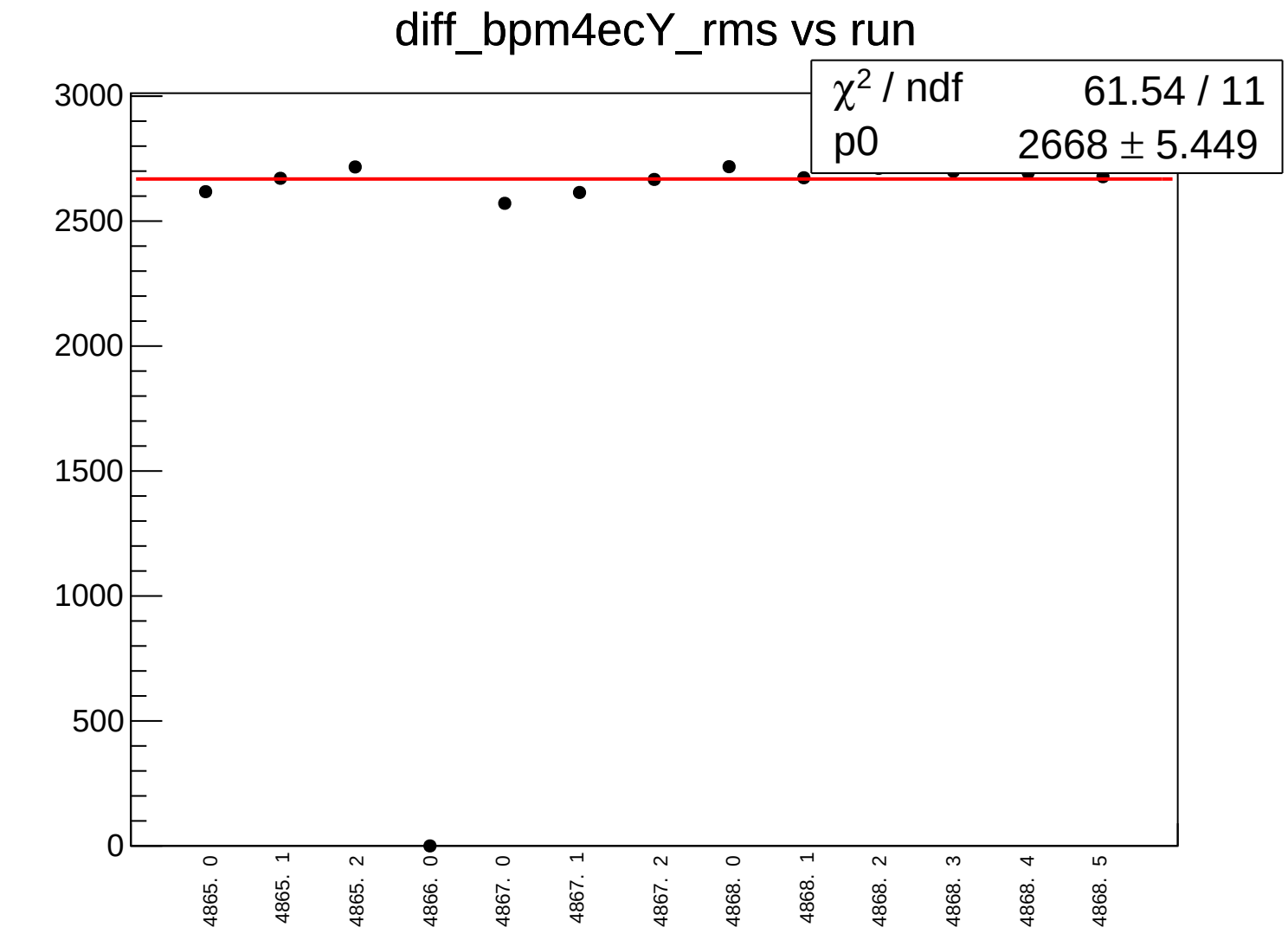
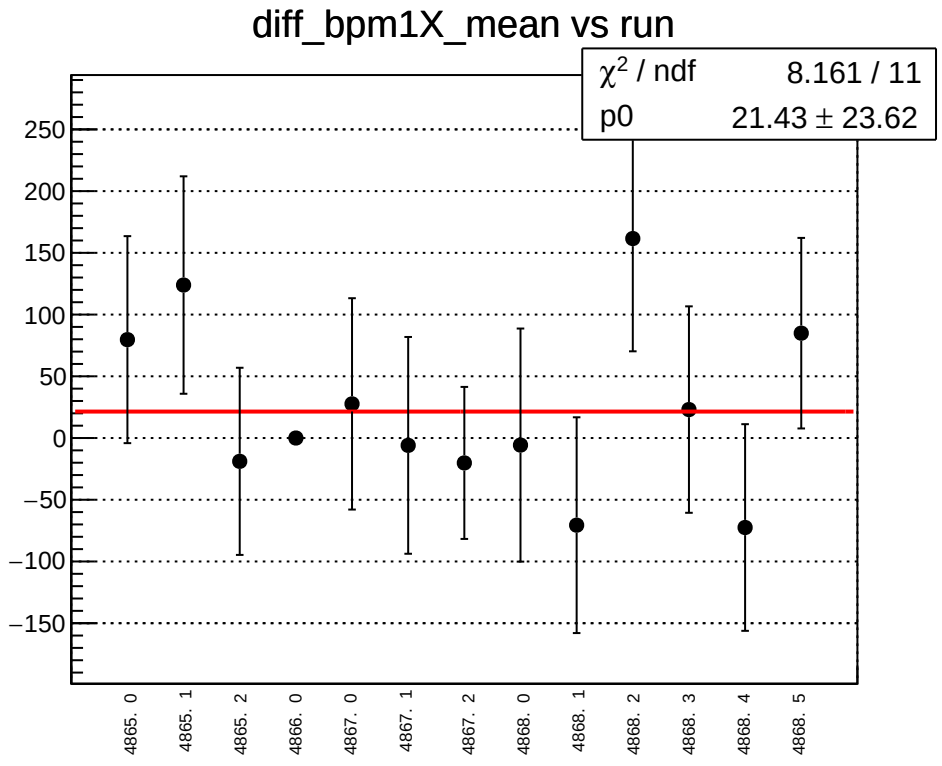
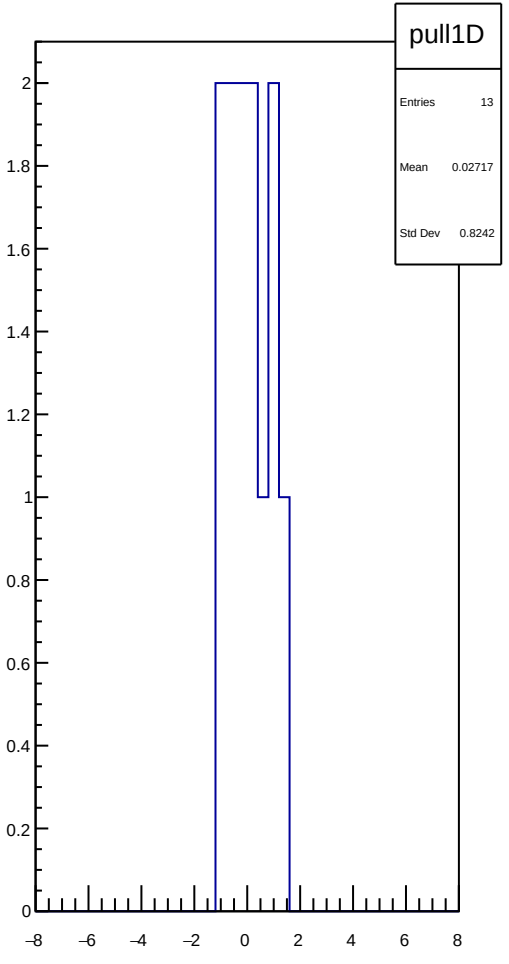
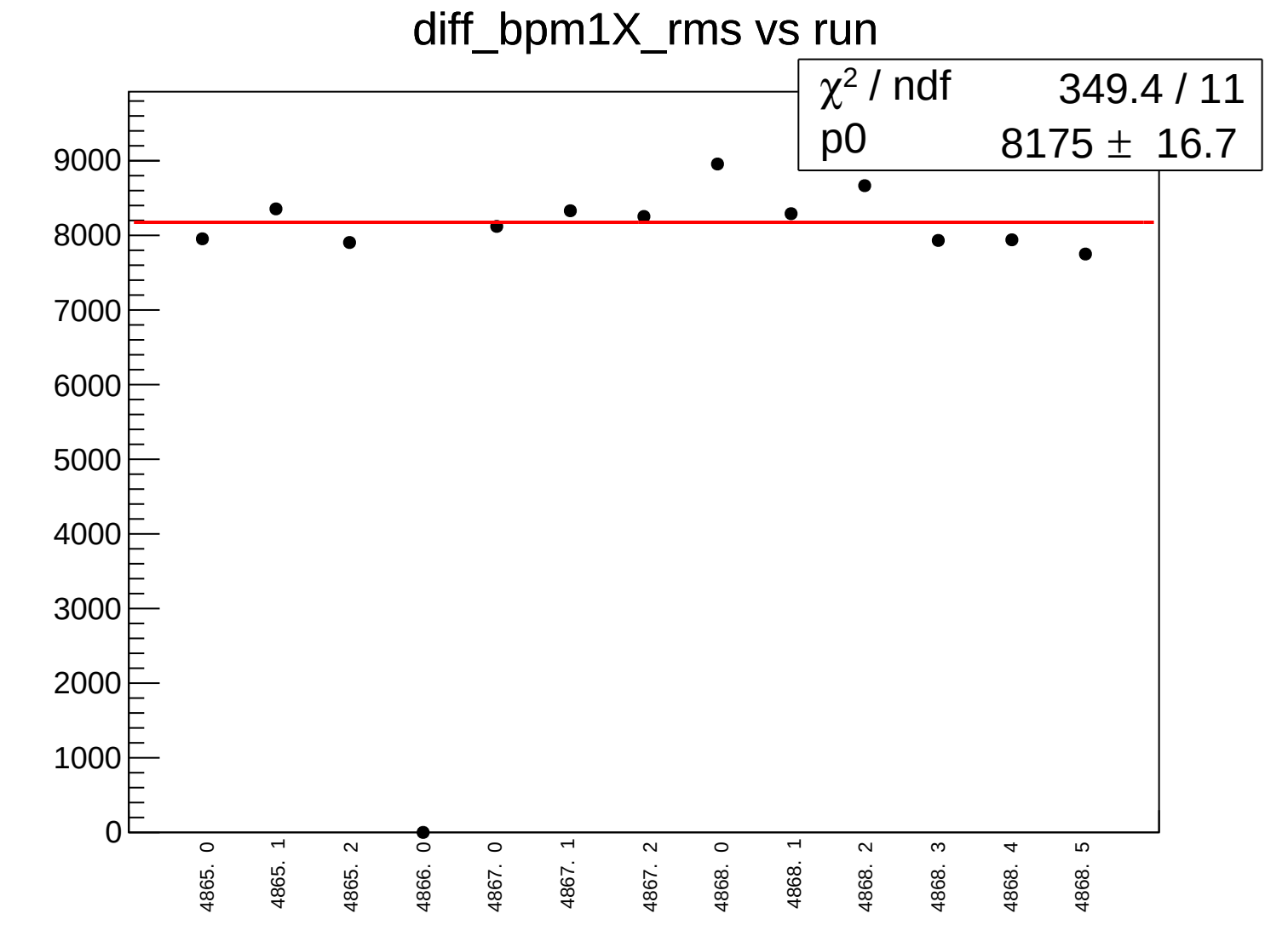
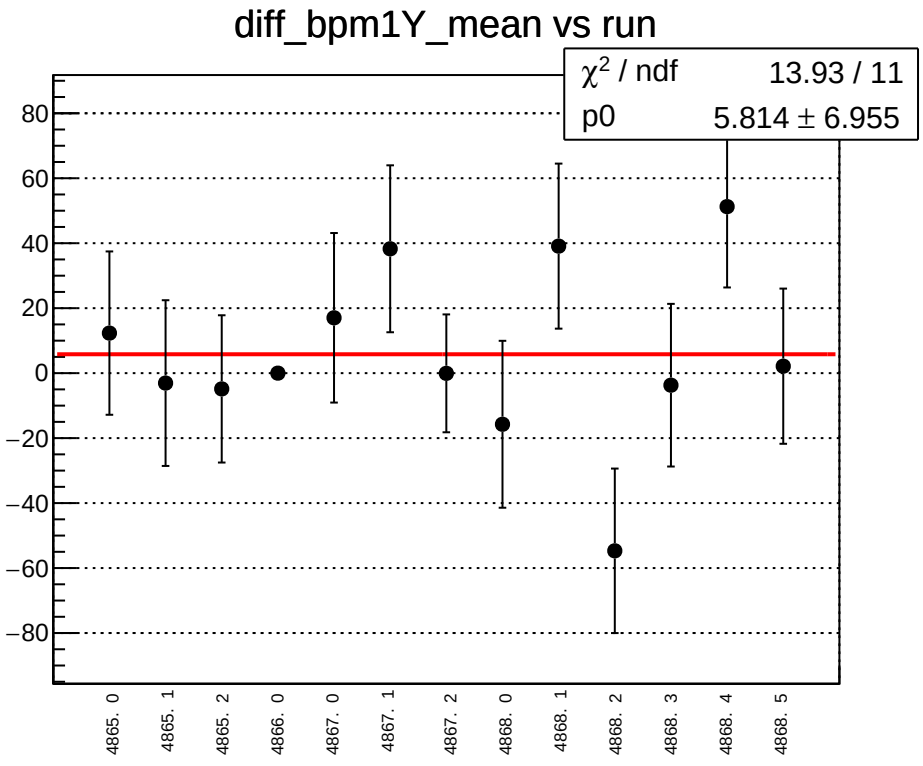
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

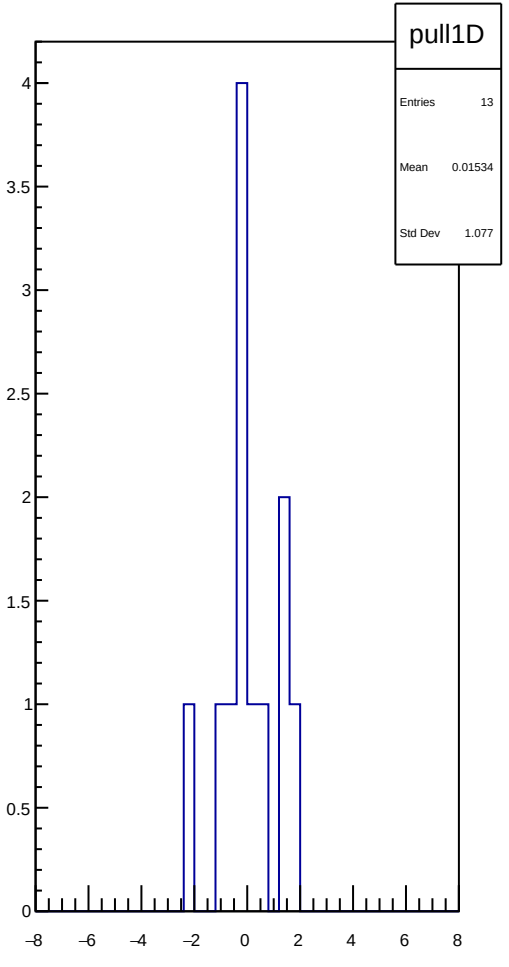

diff_bpm4ecY_rms vs run
χ² / ndf 61.54 / 11
p0 2668 ± 5.449
3000
2500
2000
1500
1000
500
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


diff_bpm1X_mean vs run
χ² / ndf 8.161 / 11
p0 21.43 ± 23.62
250
200
150
100
50
0
−50
−100
−150
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.02717
Std Dev 0.8242
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


diff_bpm1X_rms vs run
χ² / ndf 349.4 / 11
p0 8175 ± 16.7
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


diff_bpm1Y_mean vs run
χ² / ndf 13.93 / 11
p0 5.814 ± 6.955
80
60
40
20
0
−20
−40
−60
−80
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.01534
Std Dev 1.077
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
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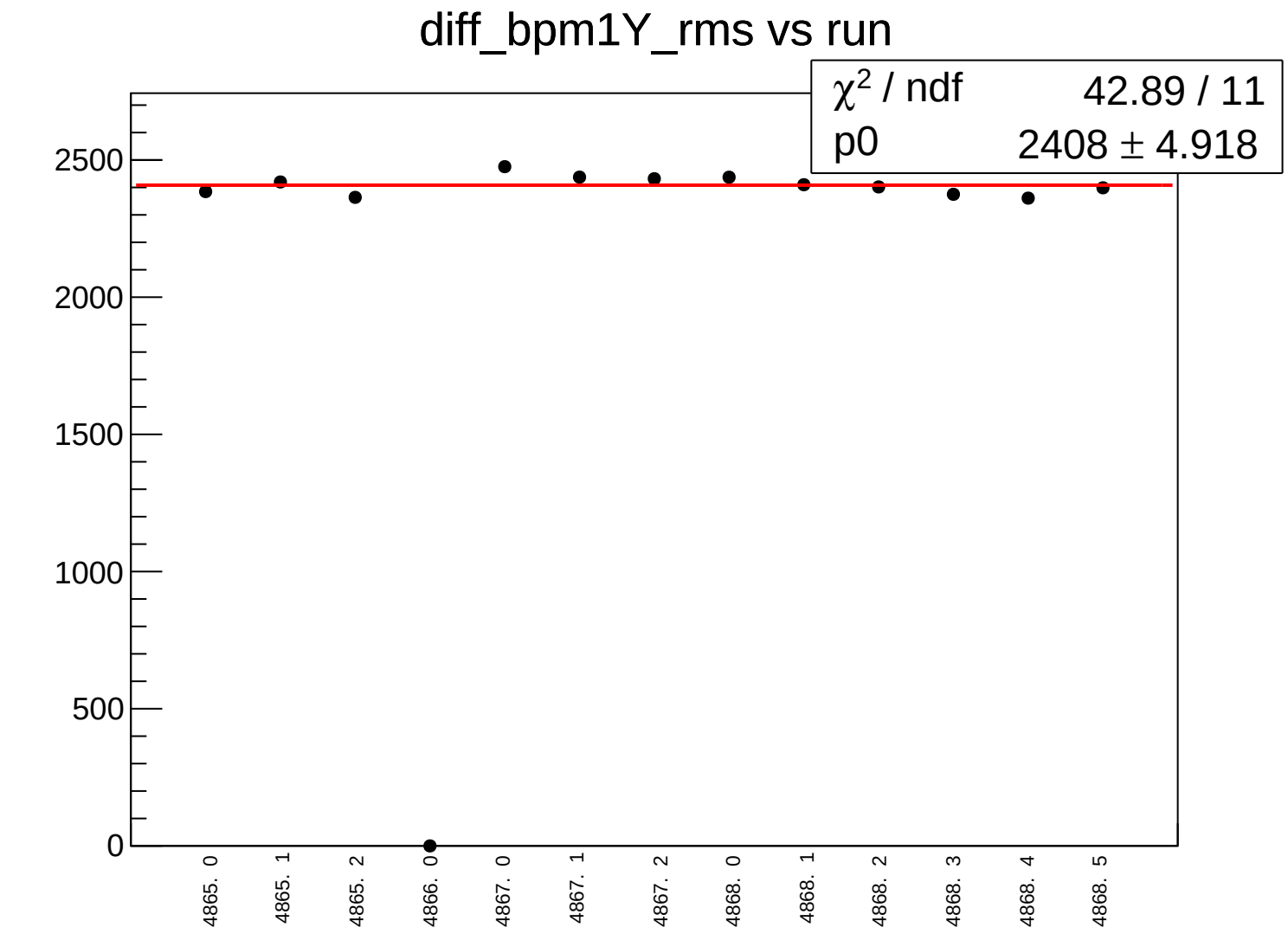
2
4
6
8


diff_bpm1Y_rms vs run
χ² / ndf 42.89 / 11
p0 2408 ± 4.918
2500
2000
1500
1000
500
0
4865. 0
4865. 1
4865. 2
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4867. 1
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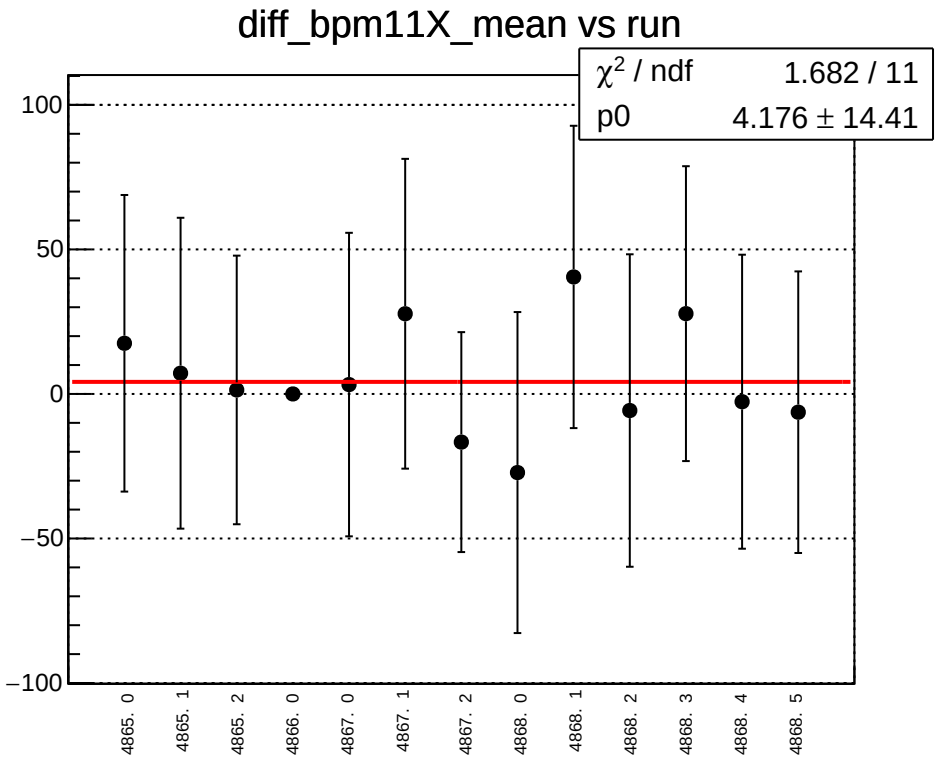
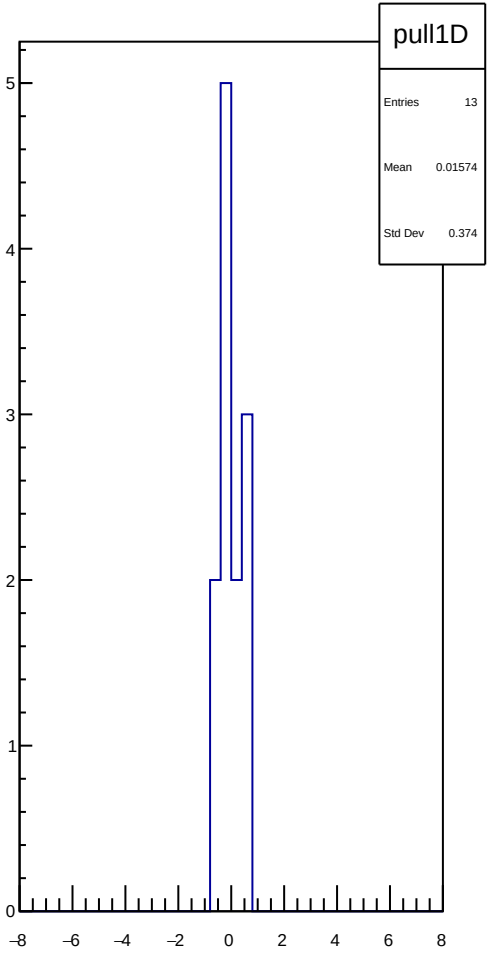
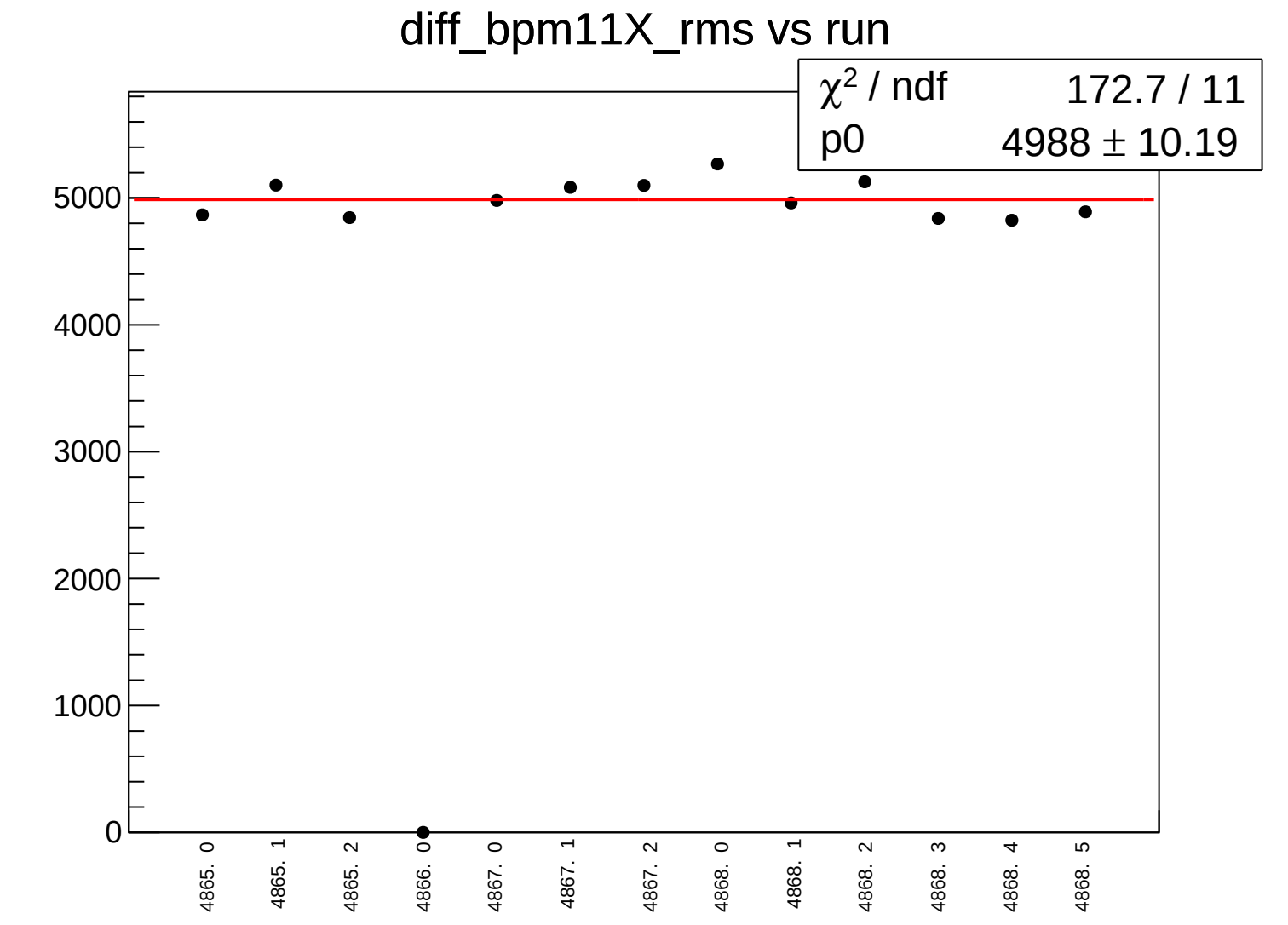
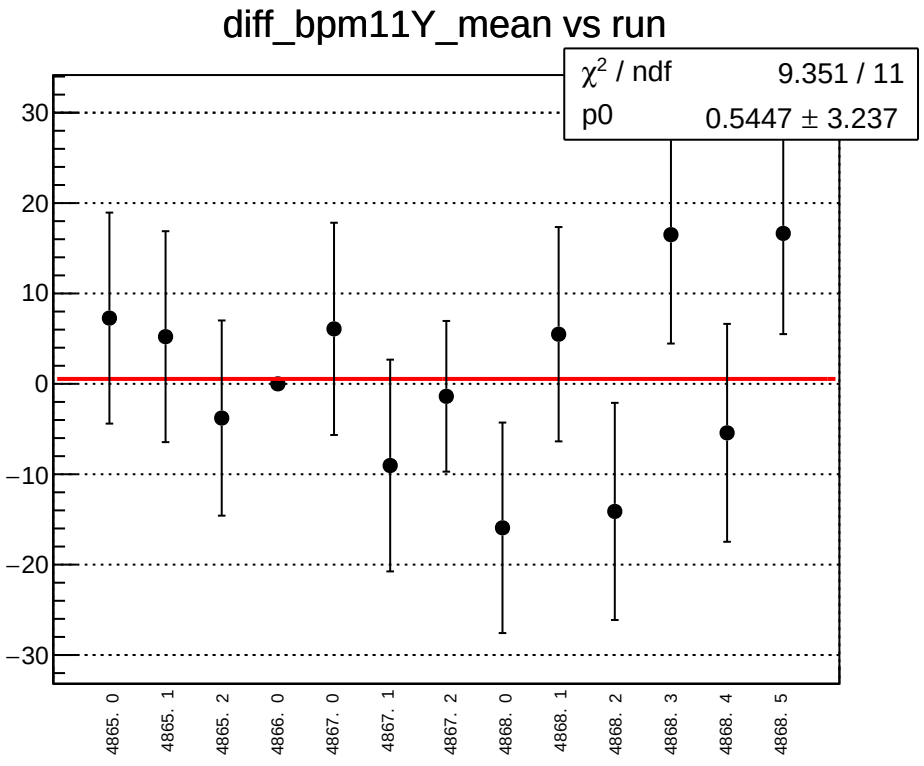
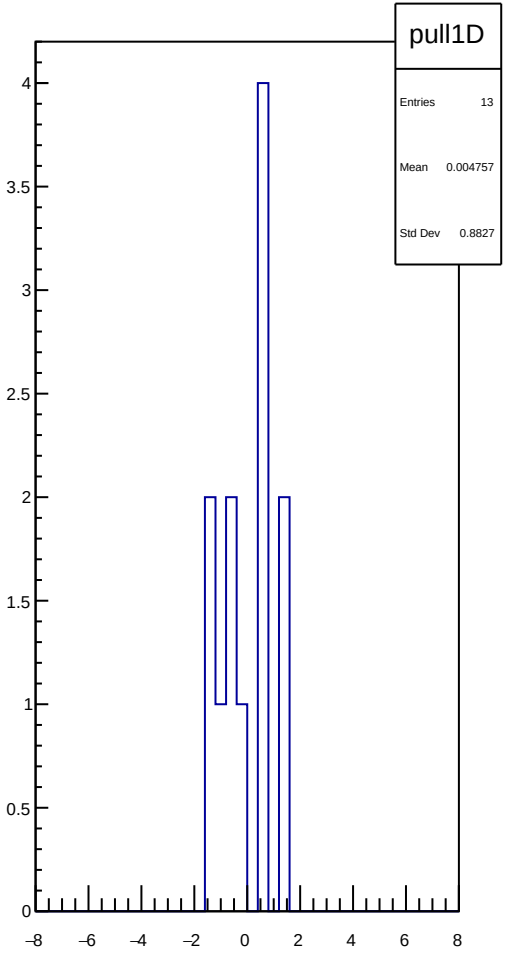
4868. 4
4868. 5

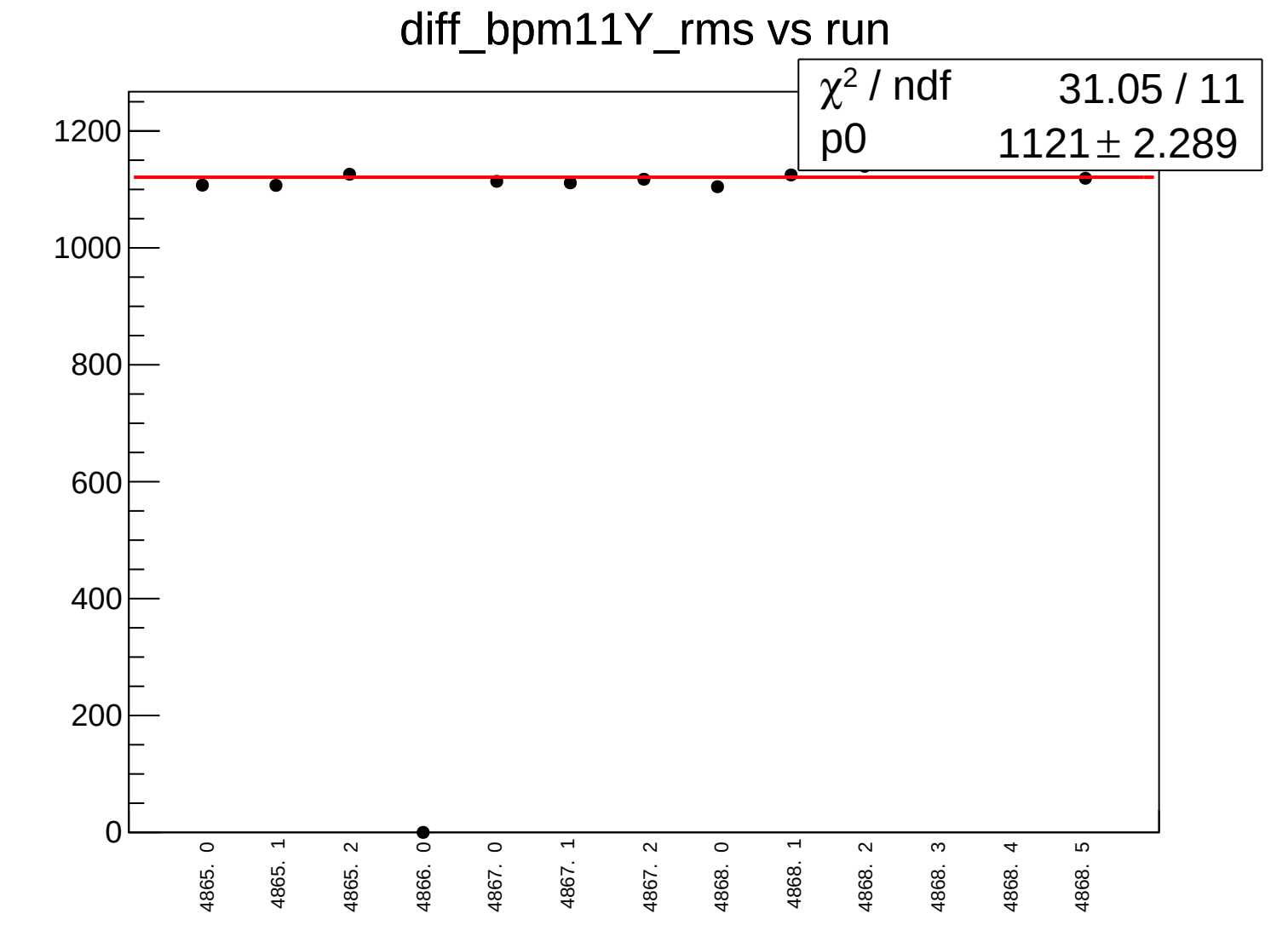

diff_bpm11X_mean vs run
χ² / ndf 1.682 / 11
p0 4.176 ± 14.41
100
50
0
−50
−100
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

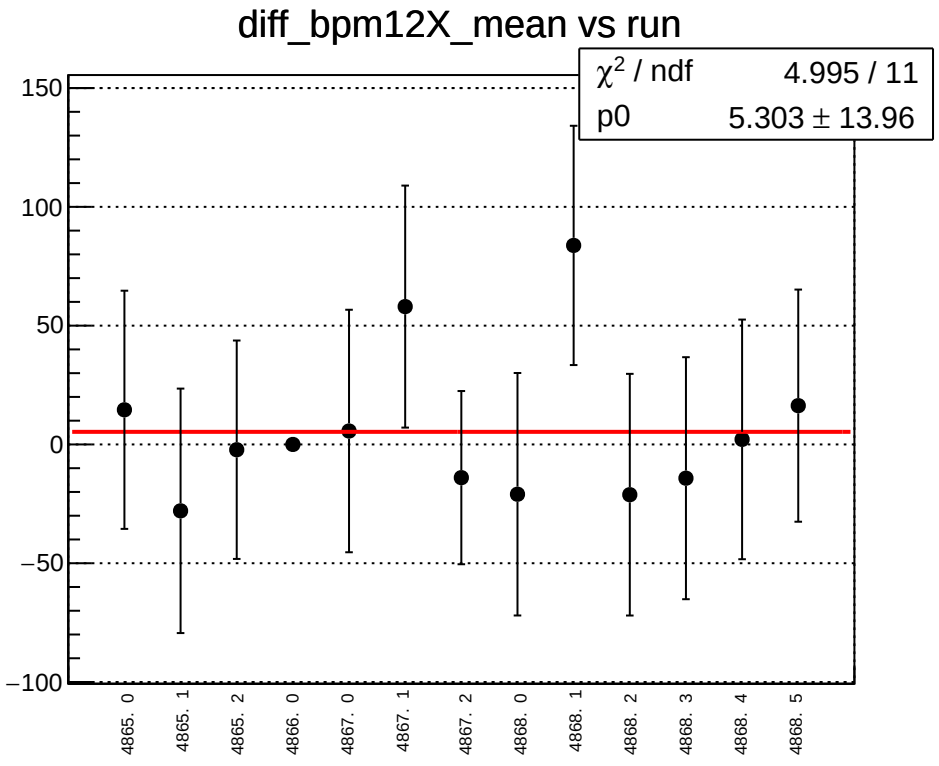

pull1D
Entries 13
Mean 0.01574
Std Dev 0.374
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm11X_rms vs run
χ² / ndf 172.7 / 11
p0 4988 ± 10.19
5000
4000
3000
2000
1000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


diff_bpm11Y_mean vs run
χ² / ndf 9.351 / 11
p0 0.5447 ± 3.237
30
20
10
0
−10
−20
−30
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.004757
Std Dev 0.8827
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm11Y_rms vs run
χ² / ndf 31.05 / 11
p0 1121 ± 2.289
1200
1000
800
600
400
200
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


diff_bpm12X_mean vs run
χ² / ndf 4.995 / 11
p0 5.303 ± 13.96
150
100
50
0
−50
−100
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
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4868. 2
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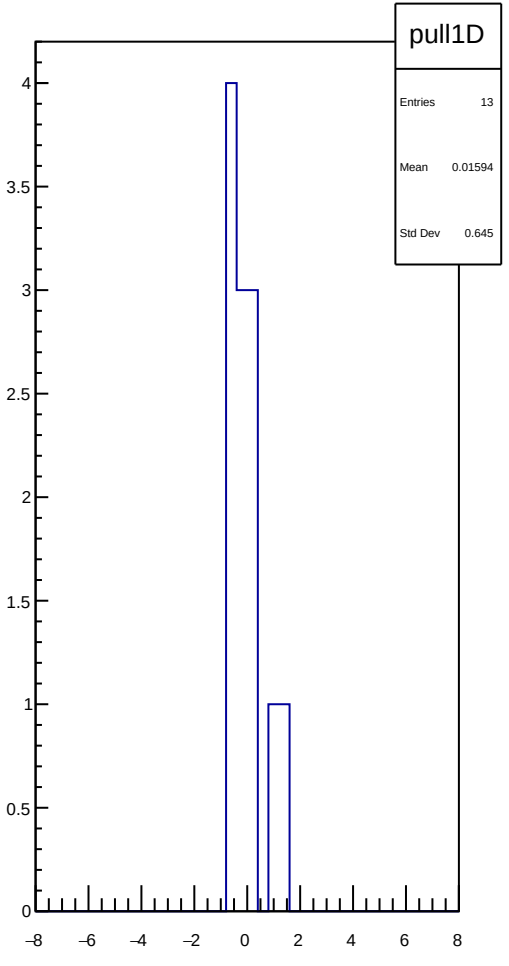
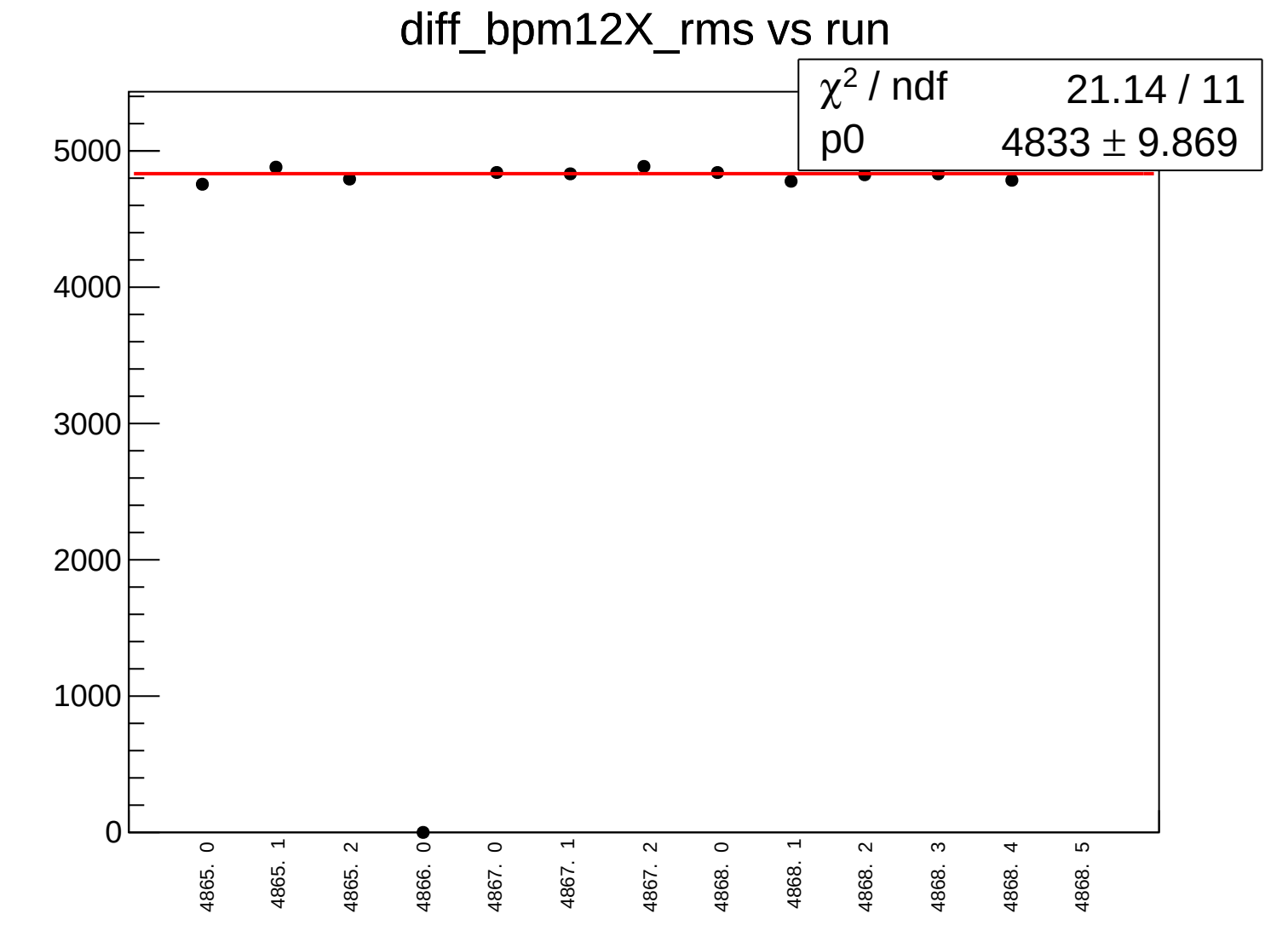
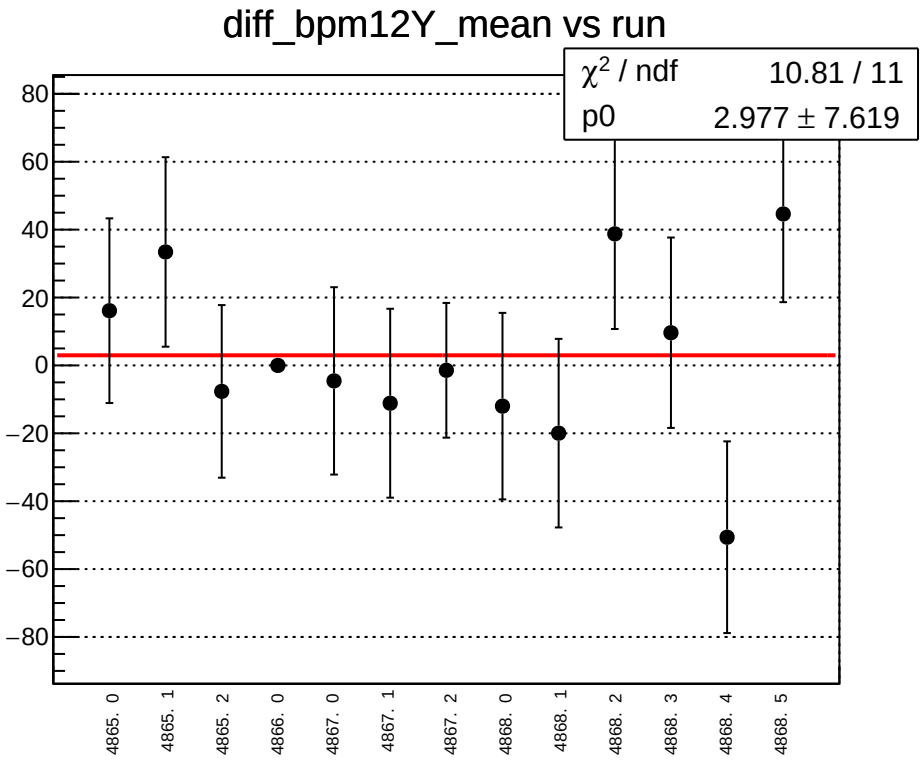
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.01594
Std Dev 0.645
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm12X_rms vs run
χ² / ndf 21.14 / 11
p0 4833 ± 9.869
5000
4000
3000
2000
1000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


diff_bpm12Y_mean vs run
χ² / ndf 10.81 / 11
p0 2.977 ± 7.619
80
60
40
20
0
−20
−40
−60
−80
4865. 0
4865. 1
4865. 2
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4867. 1
4867. 2
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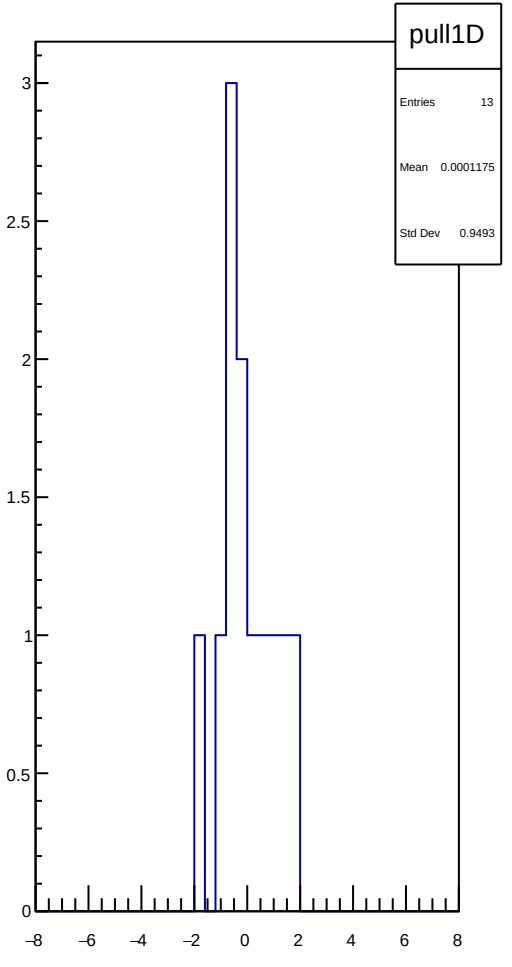
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.0001175
Std Dev 0.9493
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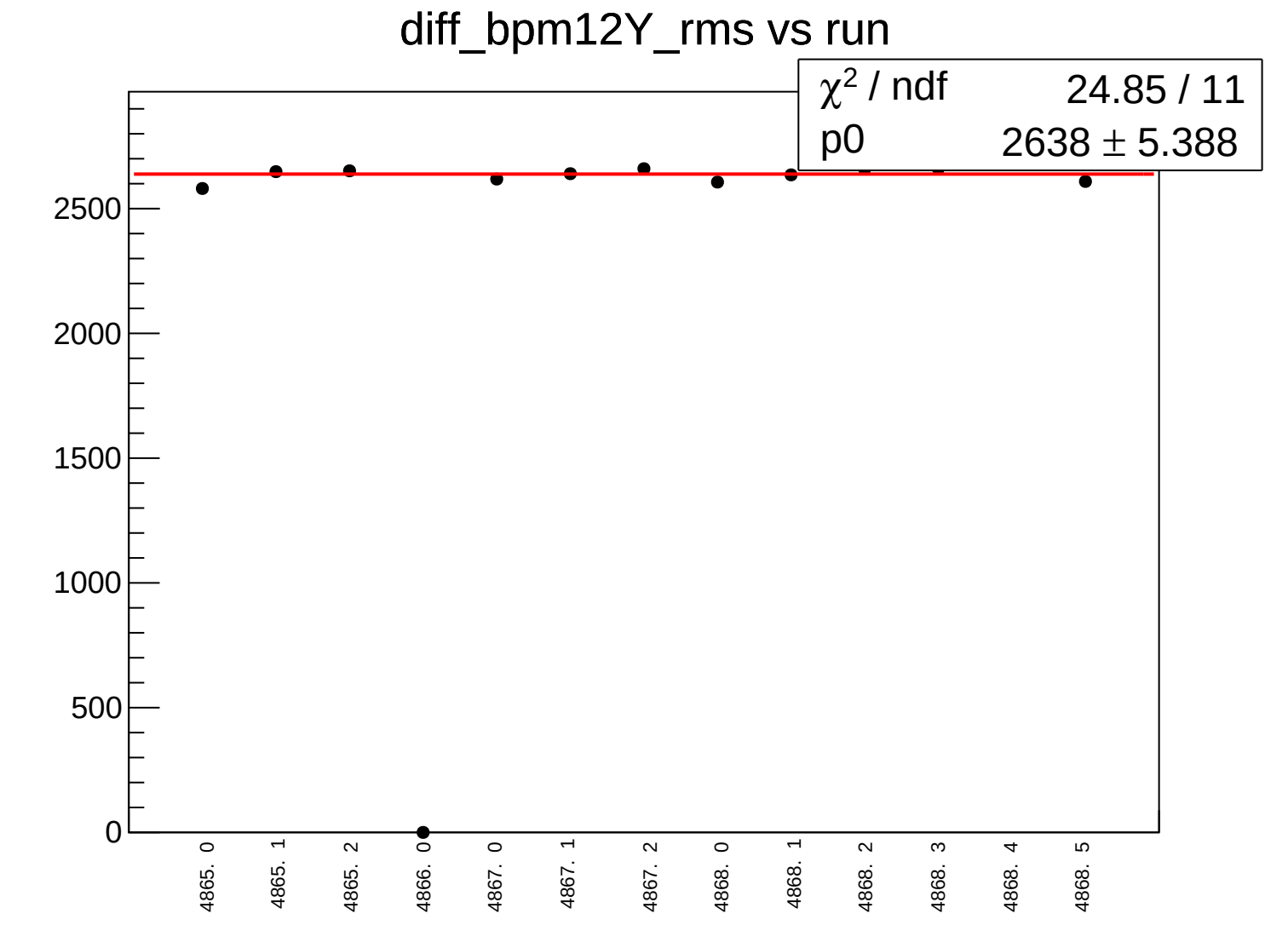
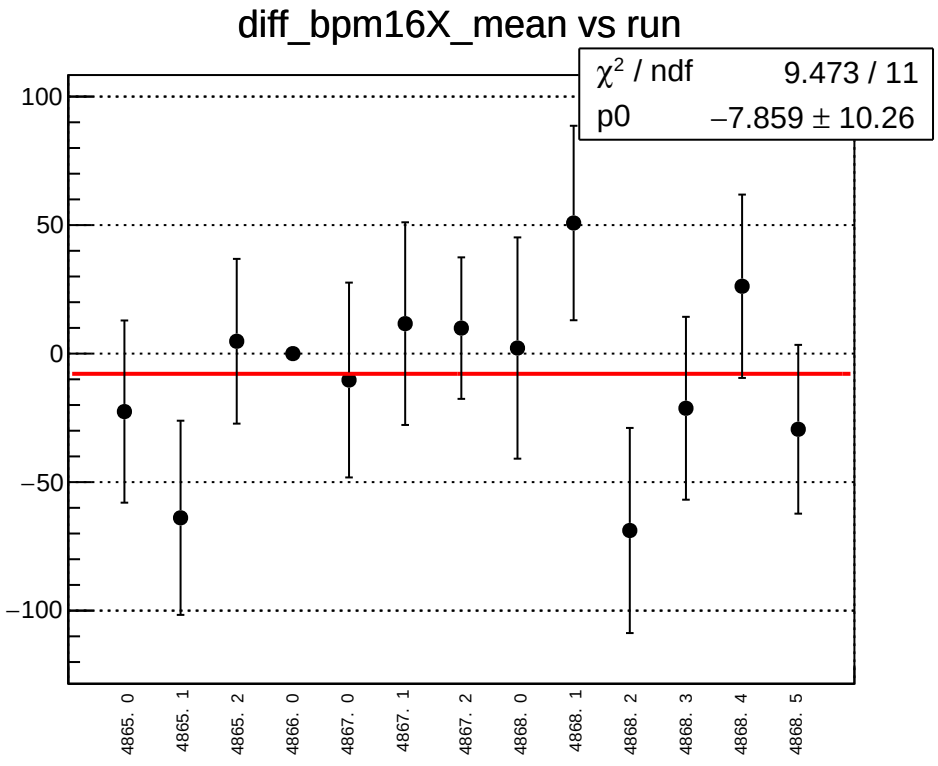
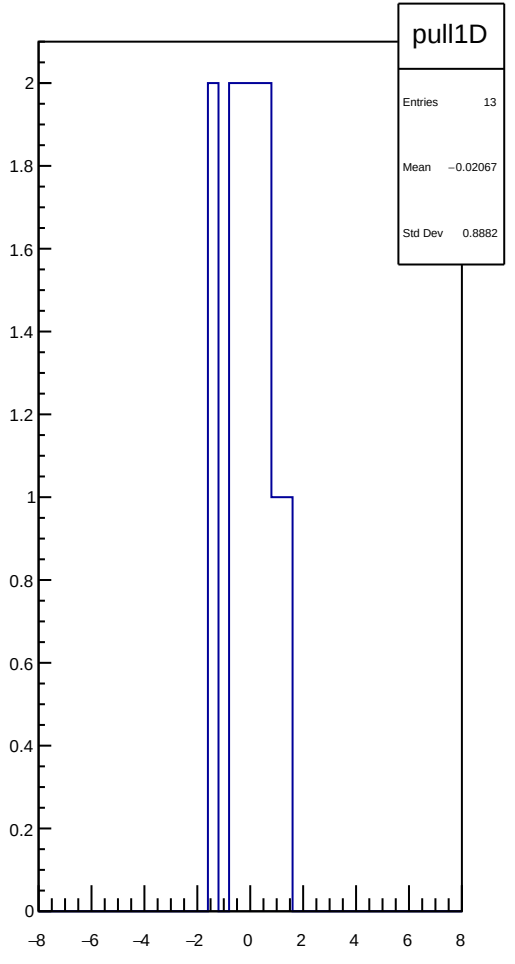
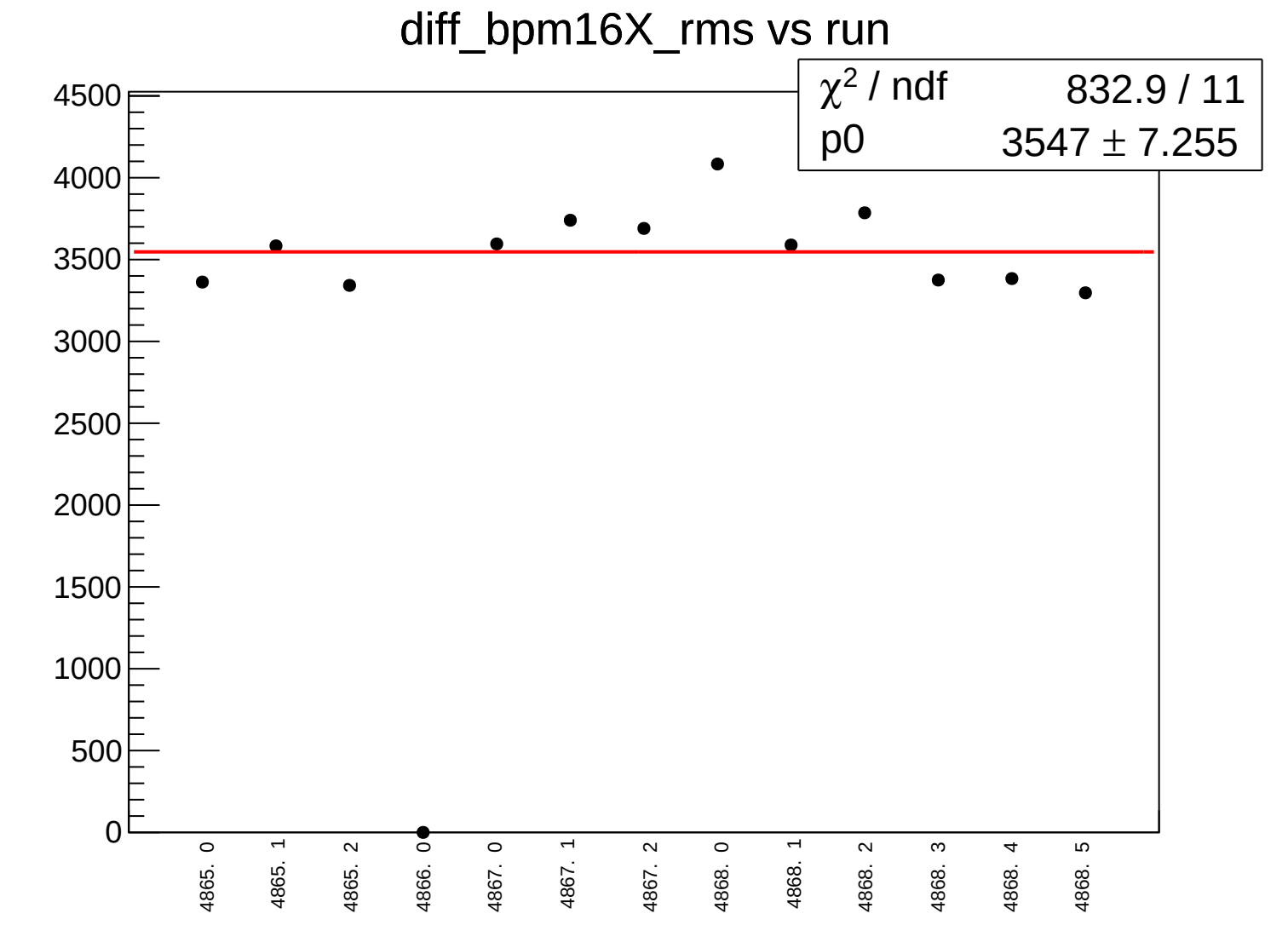
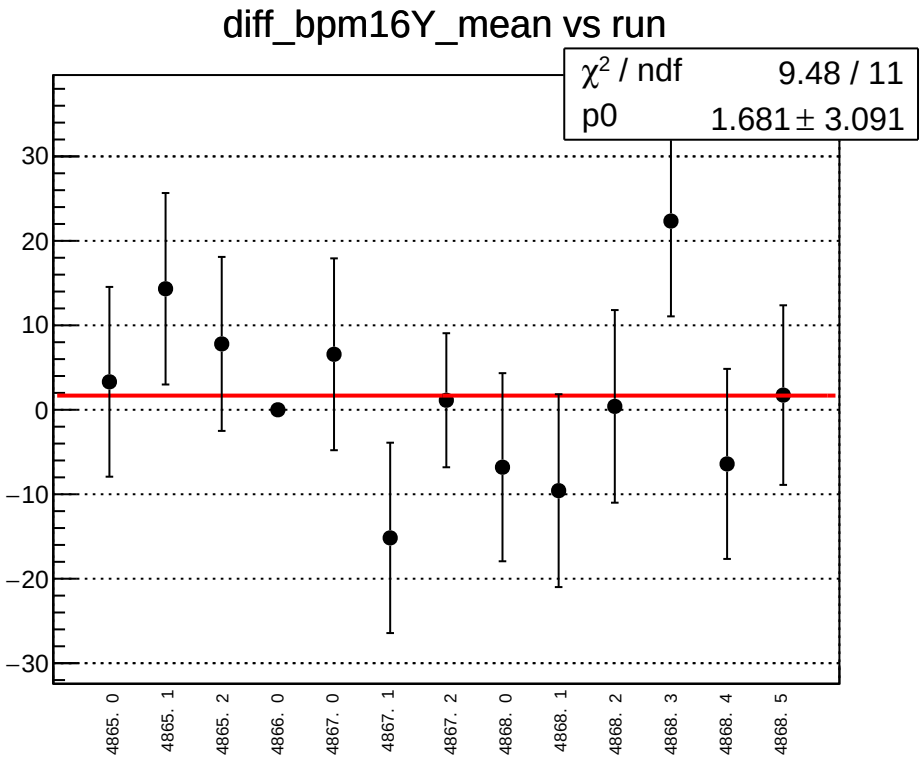
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

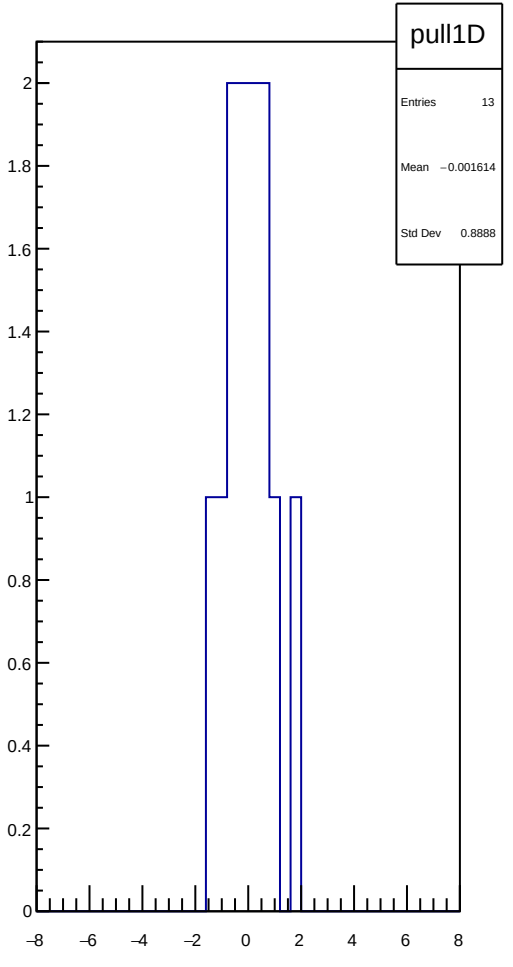

diff_bpm12Y_rms vs run
χ² / ndf 24.85 / 11
p0 2638 ± 5.388
2500
2000
1500
1000
500
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

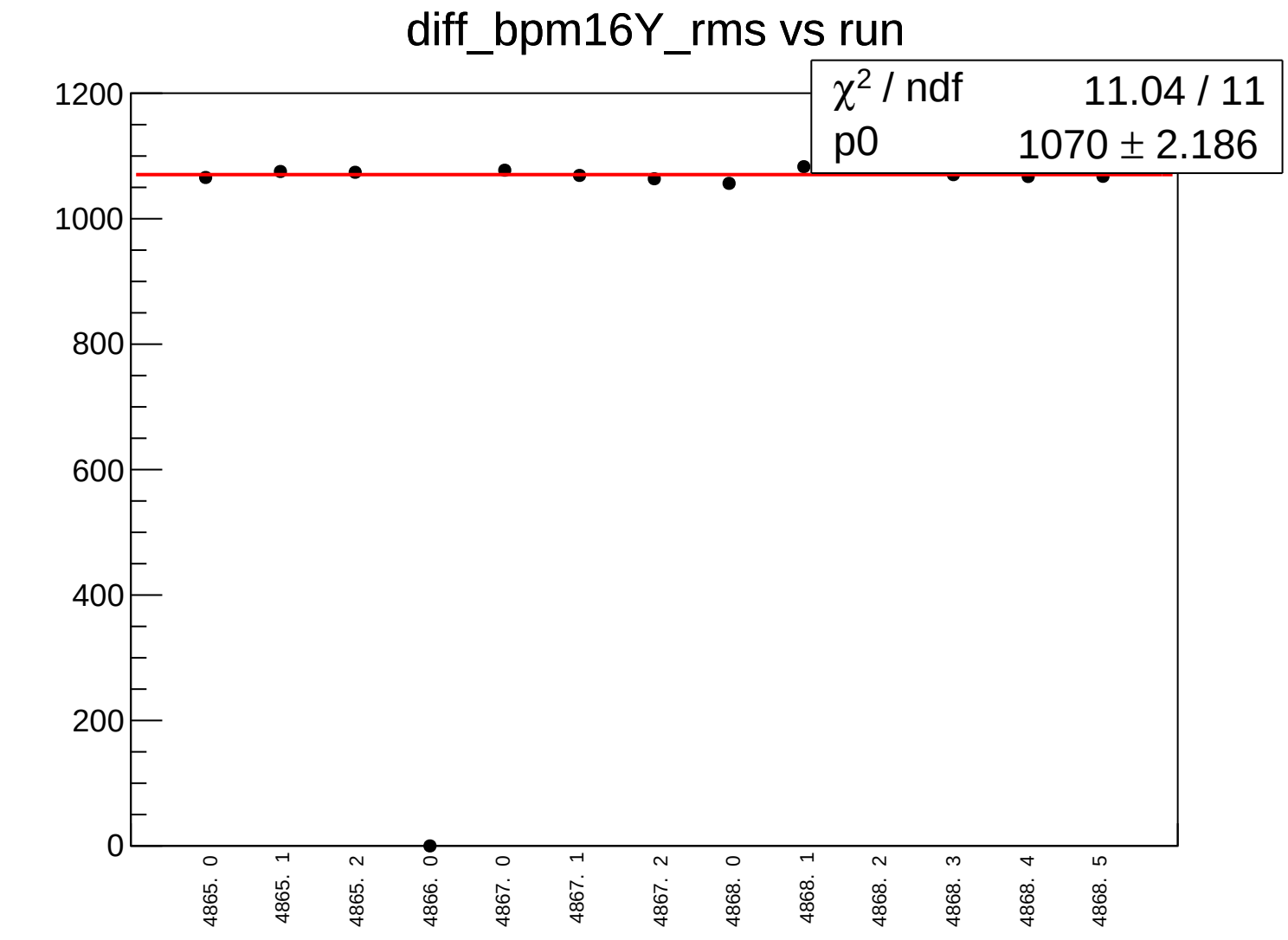

diff_bpm16X_mean vs run
χ² / ndf 9.473 / 11
p0 −7.859 ± 10.26
100
50
0
−50
−100
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

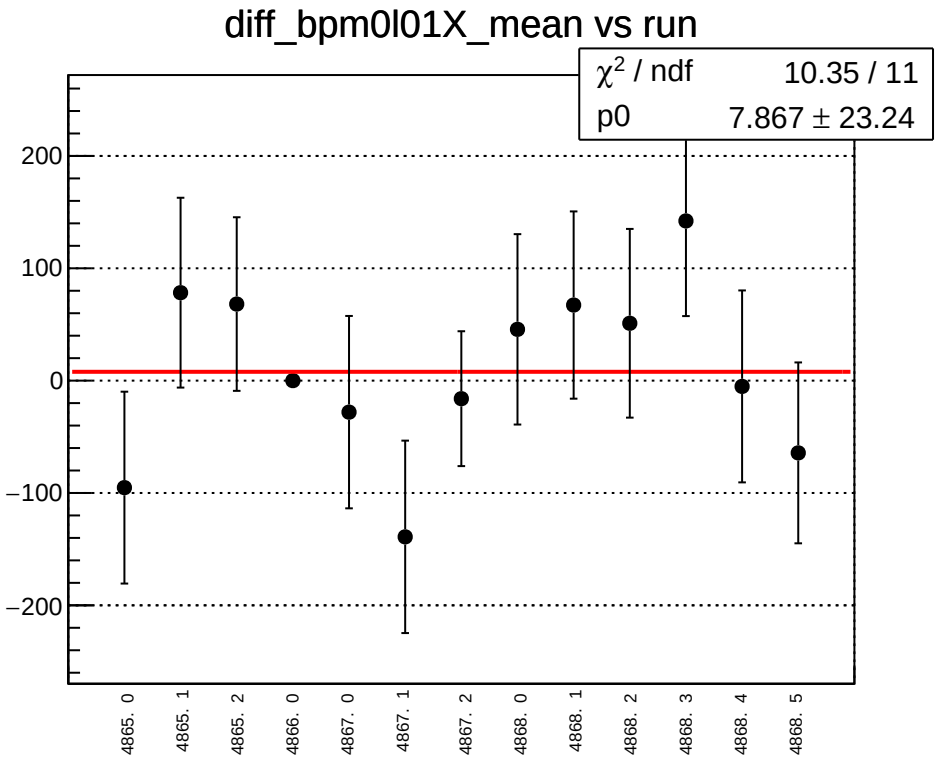

pull1D
Entries 13
Mean −0.02067
Std Dev 0.8882
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

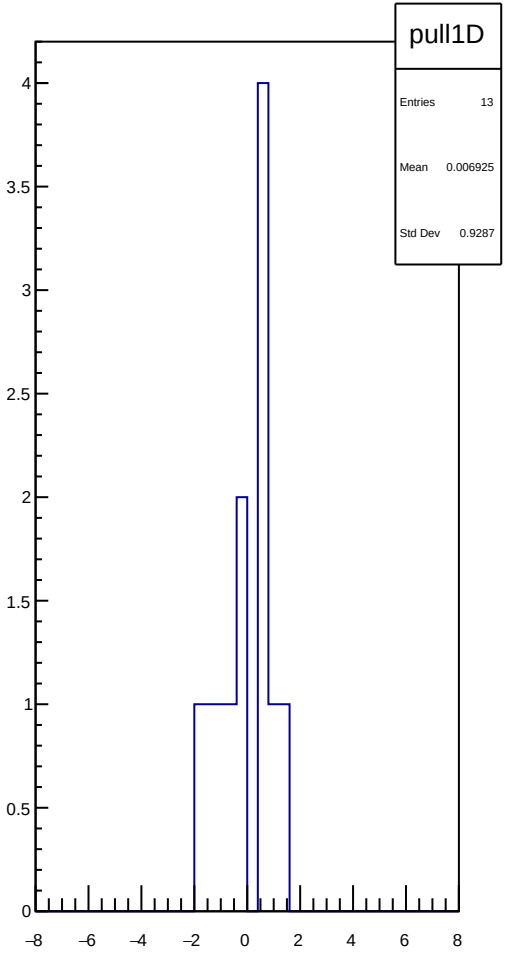

diff_bpm16X_rms vs run
χ² / ndf 832.9 / 11
p0 3547 ± 7.255
4500
4000
3500
3000
2500
2000
1500
1000
500
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

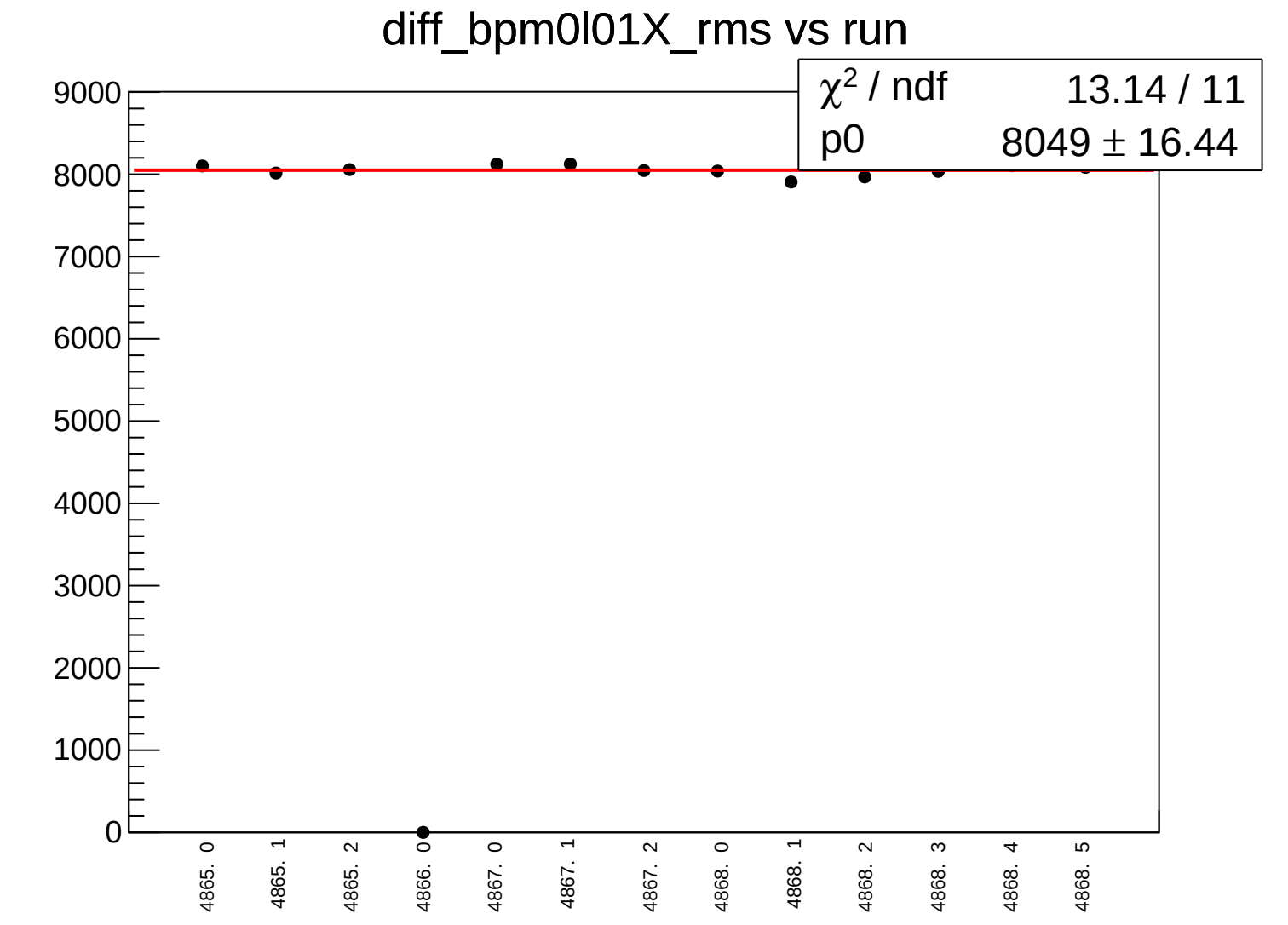

diff_bpm16Y_mean vs run
χ² / ndf 9.48 / 11
p0 1.681 ± 3.091
30
20
10
0
−10
−20
−30
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

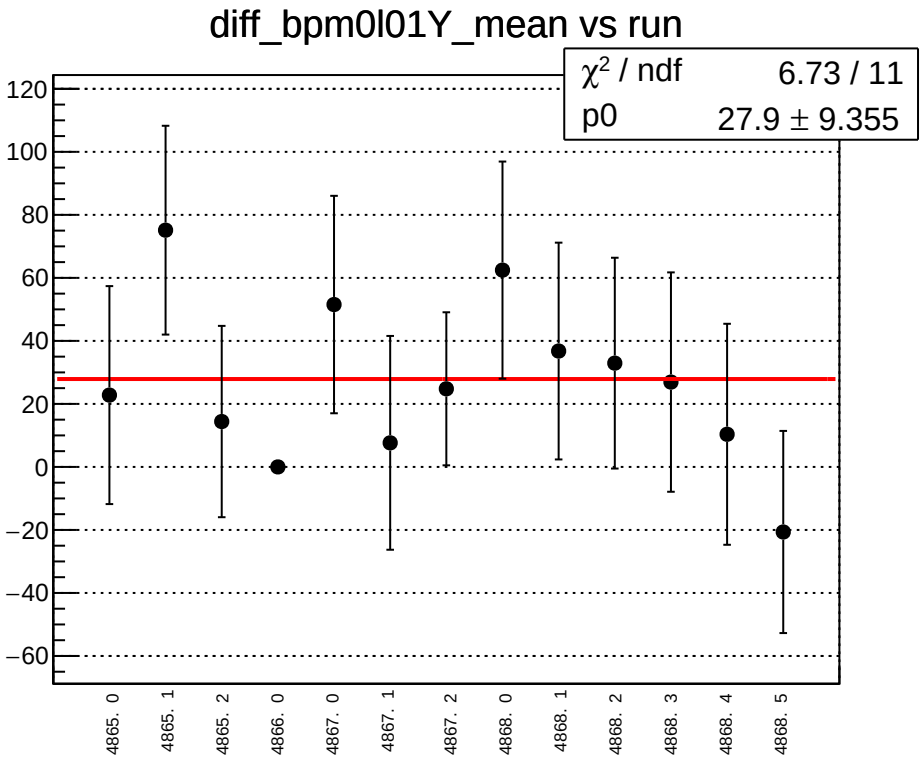

pull1D
Entries 13
Mean −0.001614
Std Dev 0.8888
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

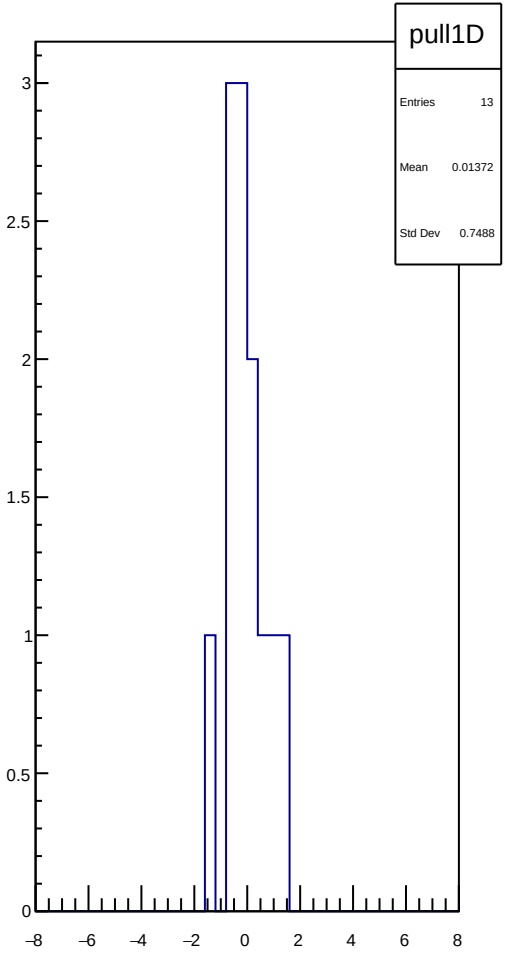

diff_bpm16Y_rms vs run
χ² / ndf 11.04 / 11
p0 1070 ± 2.186
1200
1000
800
600
400
200
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


diff_bpm0l01X_mean vs run
χ² / ndf 10.35 / 11
p0 7.867 ± 23.24
200
100
0
−100
−200
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.006925
Std Dev 0.9287
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm0l01X_rms vs run
χ² / ndf 13.14 / 11
p0 8049 ± 16.44
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


diff_bpm0l01Y_mean vs run
χ² / ndf 6.73 / 11
p0 27.9 ± 9.355
120
100
80
60
40
20
0
−20
−40
−60
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.01372
Std Dev 0.7488
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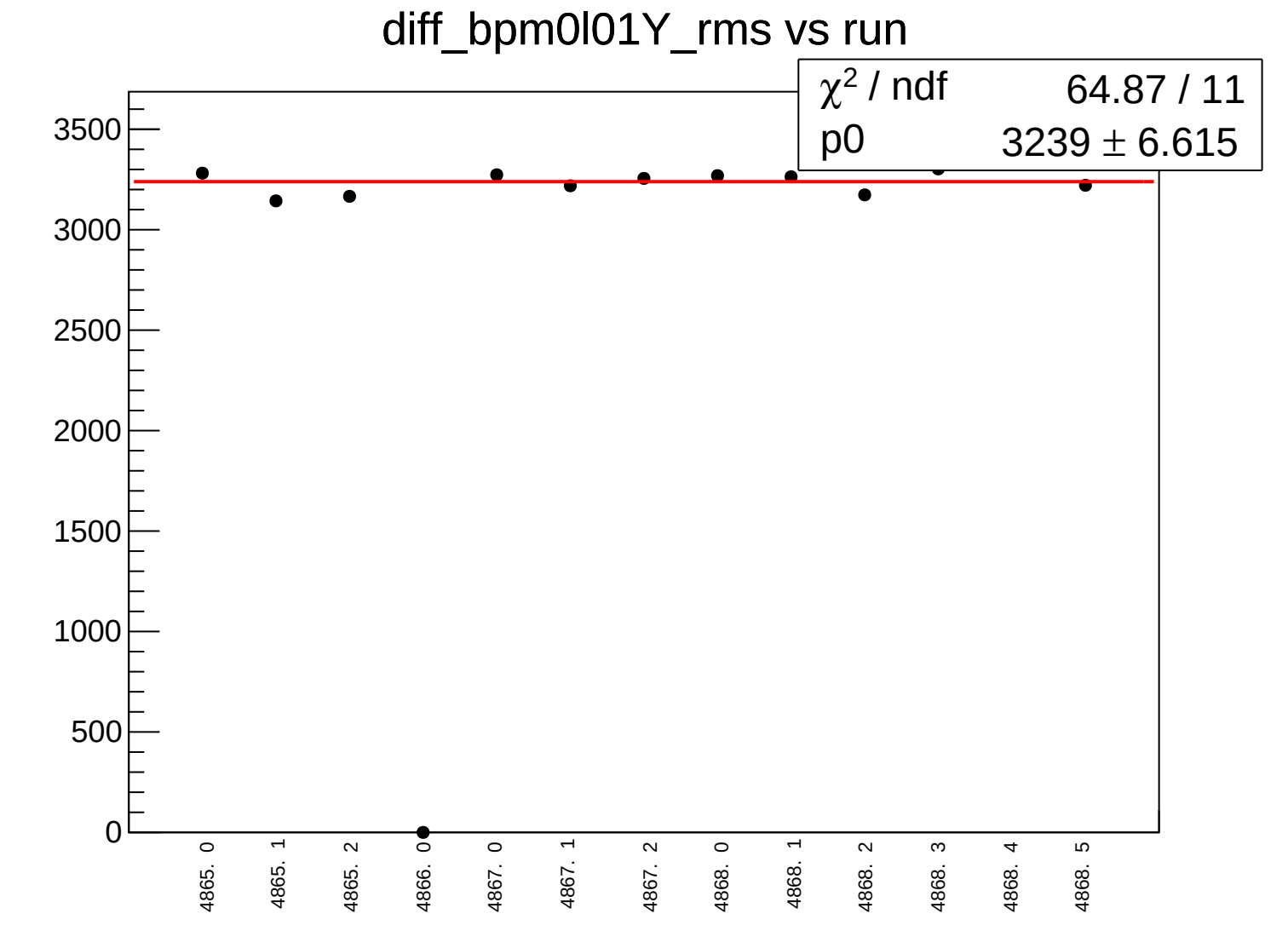
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm0l01Y_rms vs run
χ² / ndf 64.87 / 11
p0 3239 ± 6.615
3500
3000
2500
2000
1500
1000
500
0
4865. 0
4865. 1
4865. 2
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4867. 2
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4868. 2
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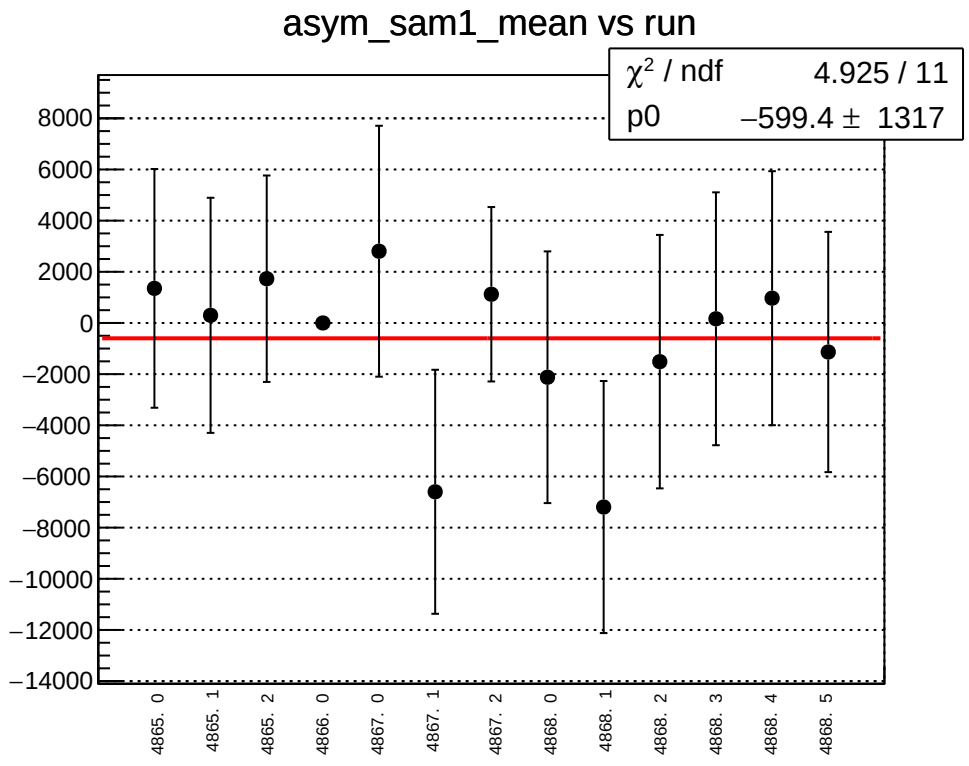
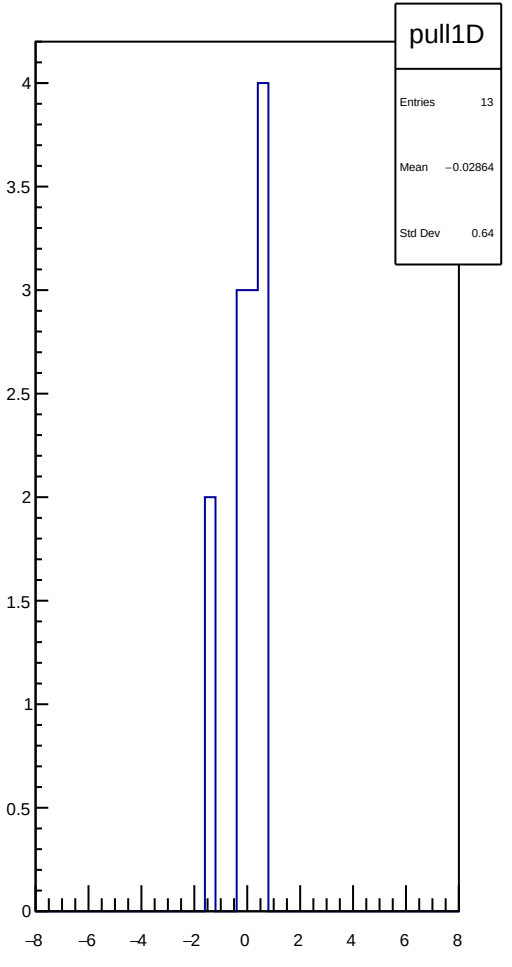
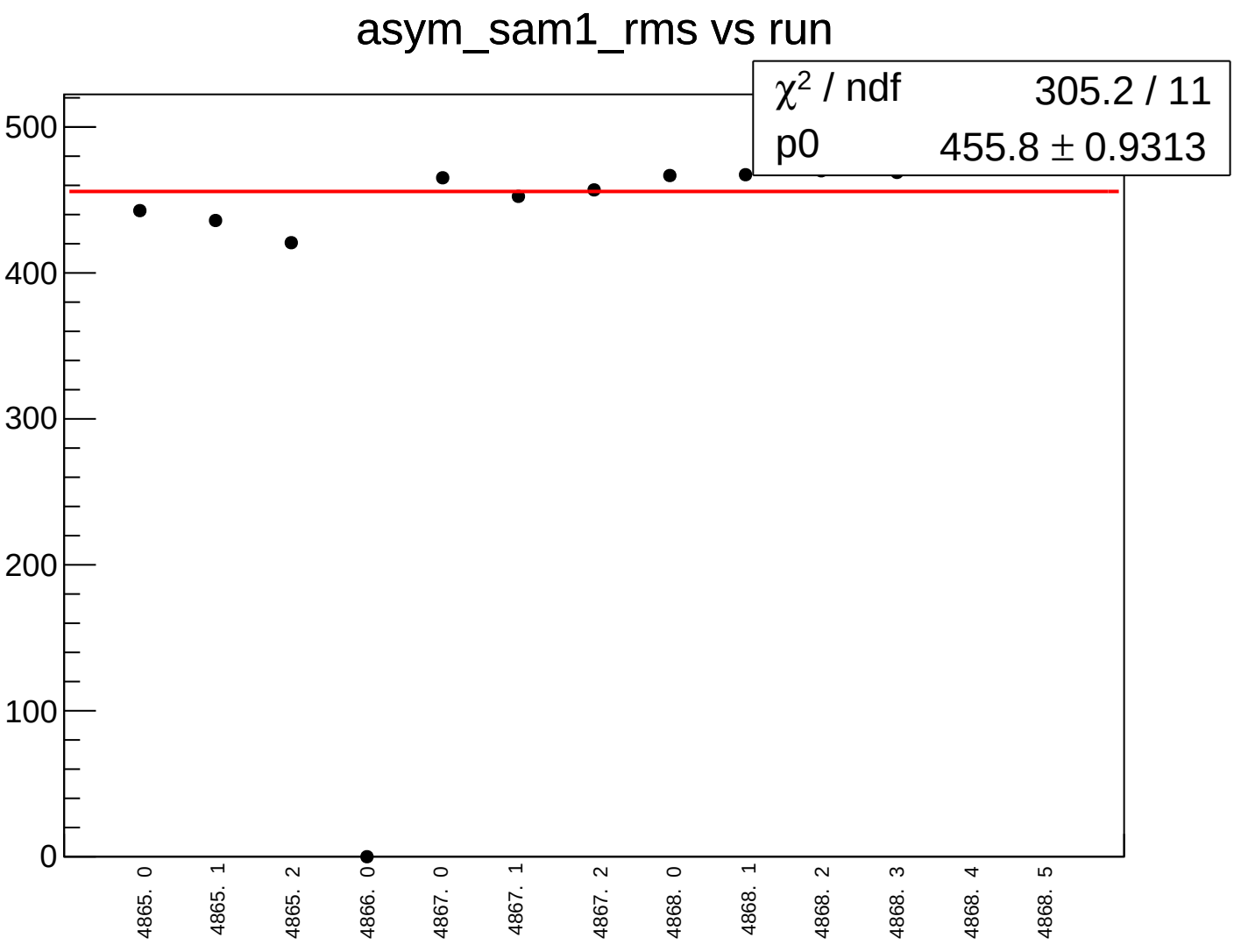
4868. 4
4868. 5


asym_sam1_mean vs run
χ² / ndf 4.925 / 11
p0 −599.4 ± 1317
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
−14000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.02864
Std Dev 0.64
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam1_rms vs run
χ² / ndf 305.2 / 11
p0 455.8 ± 0.9313
500
400
300
200
100
0
4865. 0
4865. 1
4865. 2
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4867. 0
4867. 1
4867. 2
4868. 0
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4868. 2
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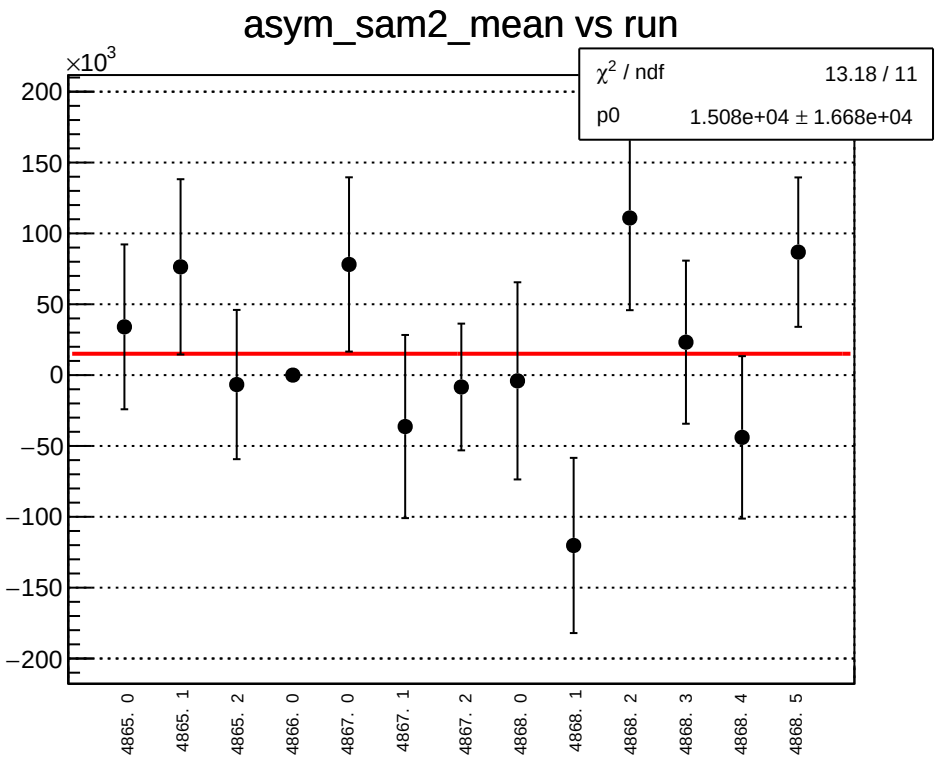
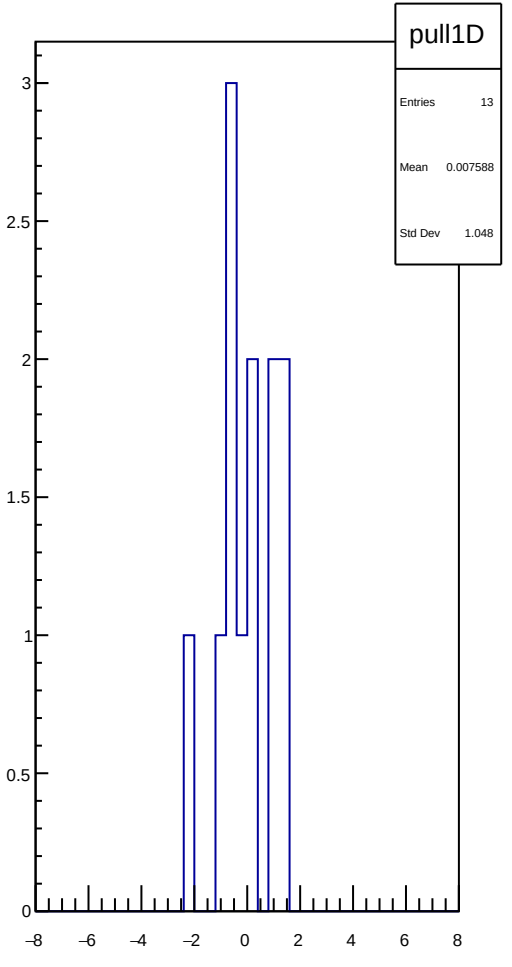
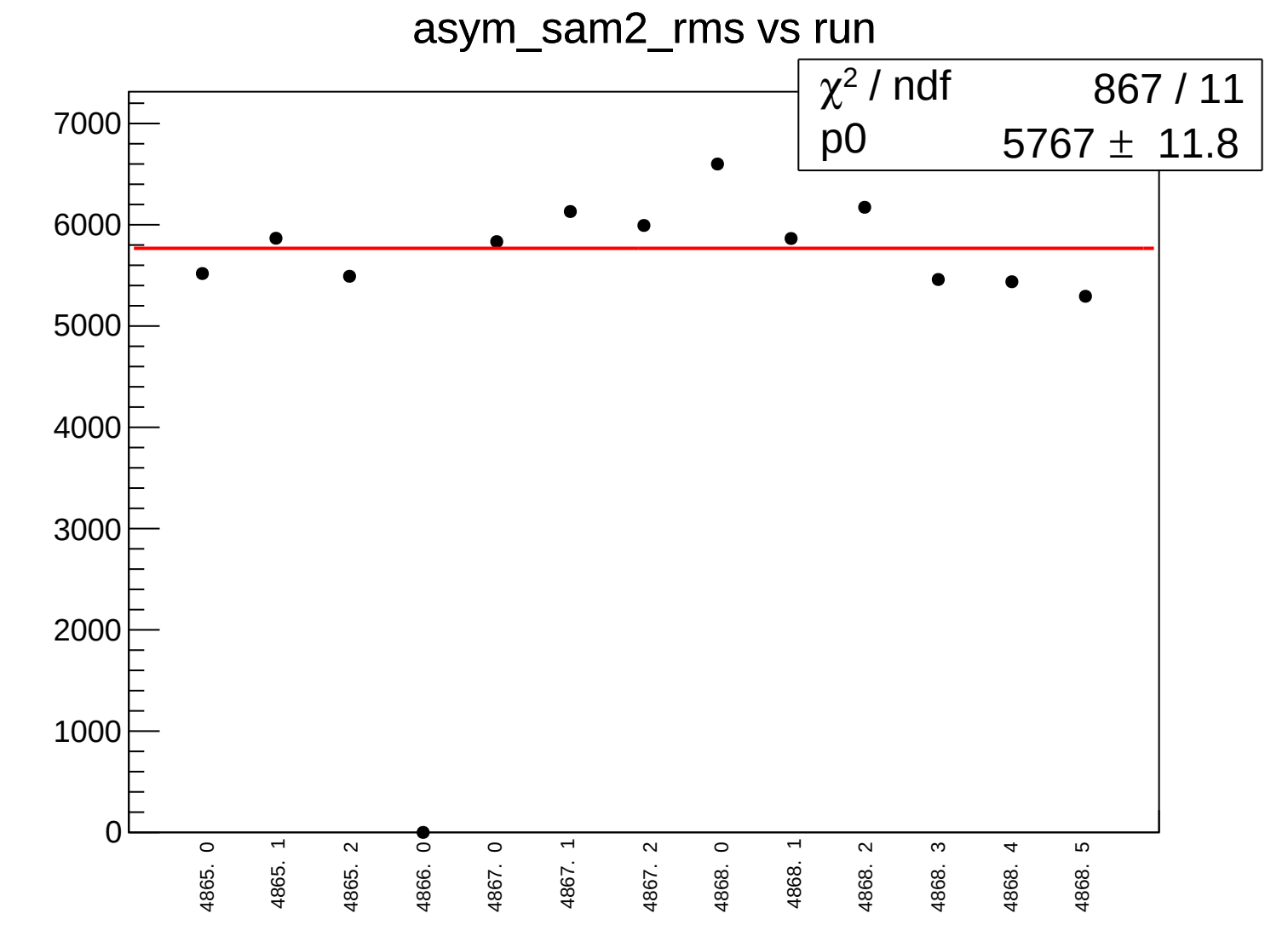
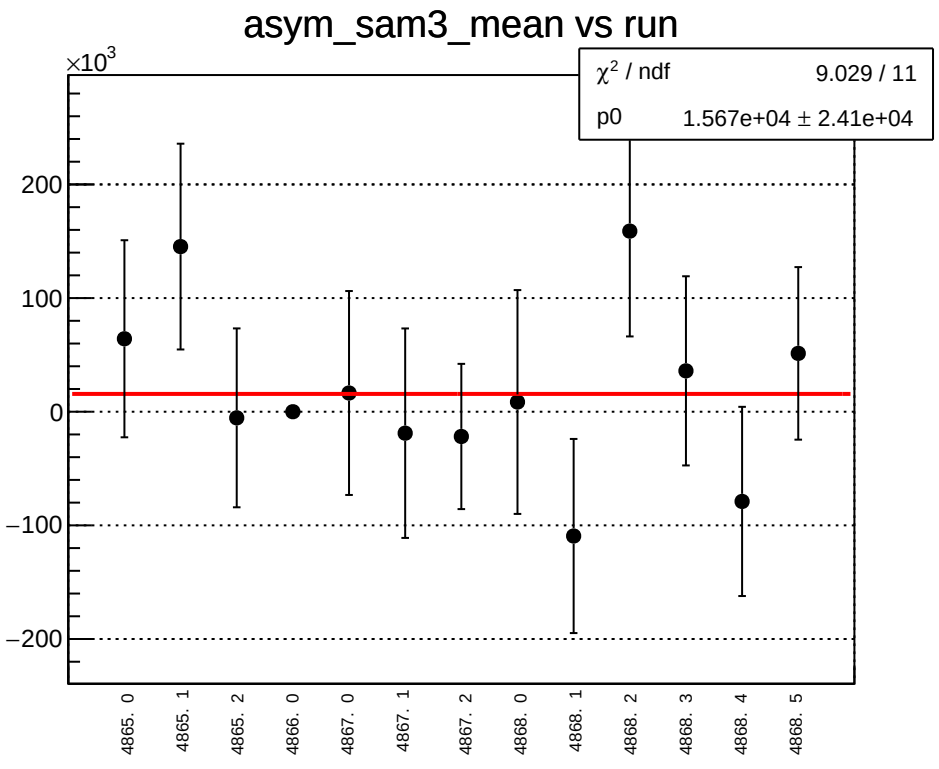
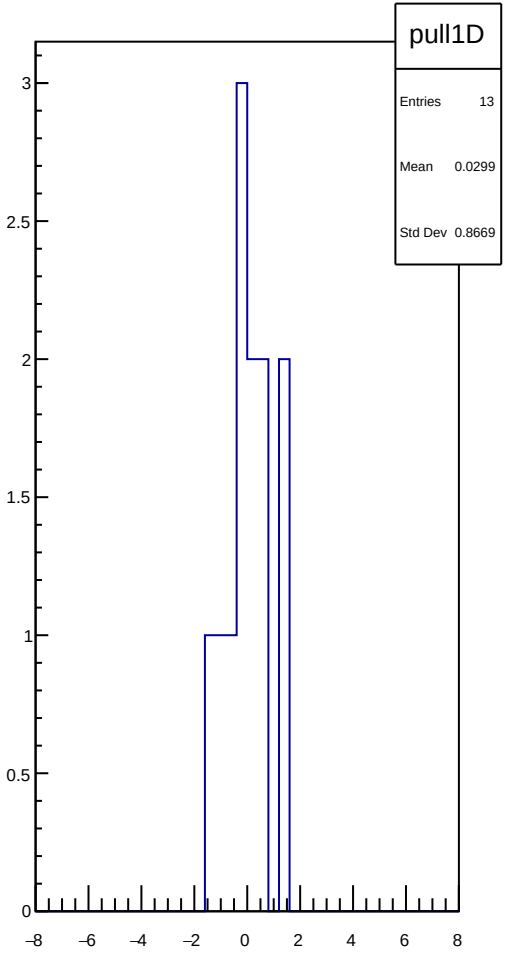
4868. 4
4868. 5

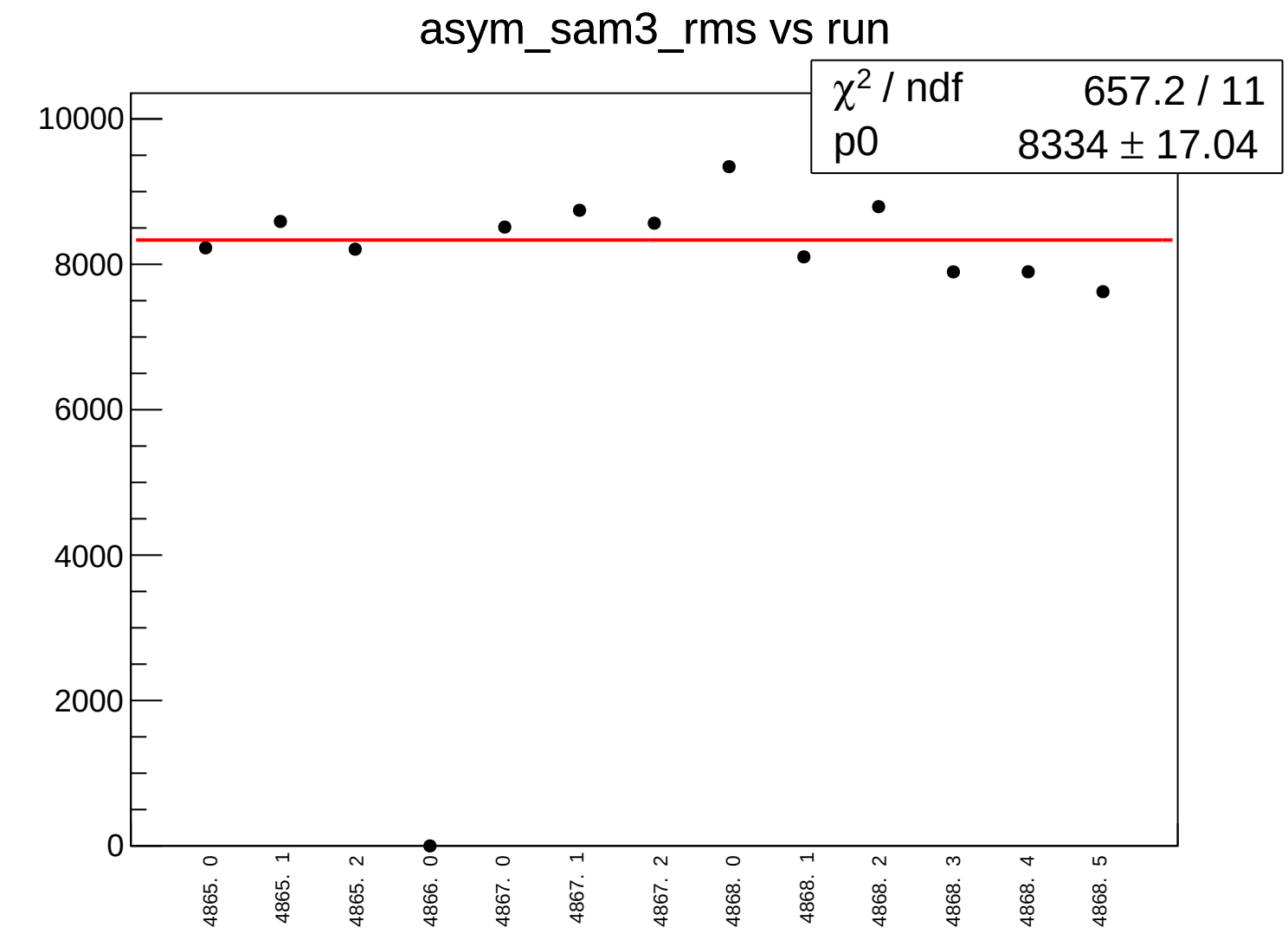

asym_sam2_mean vs run
×10^3
χ² / ndf 13.18 / 11
p0 1.508e+04 ± 1.668e+04
200
150
100
50
0
−50
−100
−150
−200
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

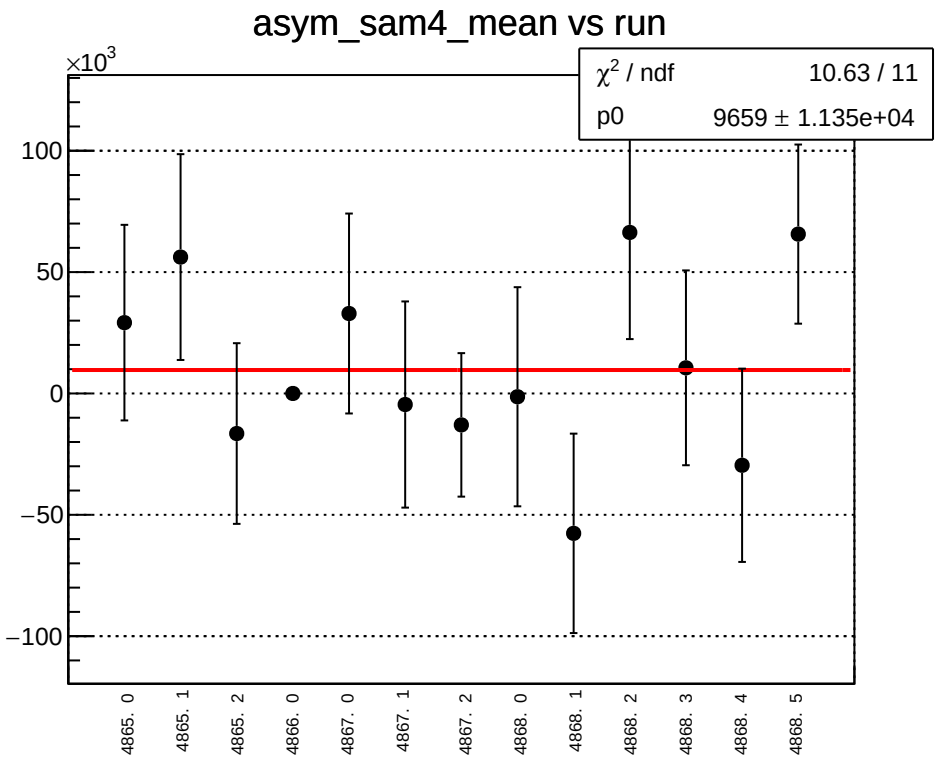

pull1D
Entries 13
Mean 0.007588
Std Dev 1.048
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

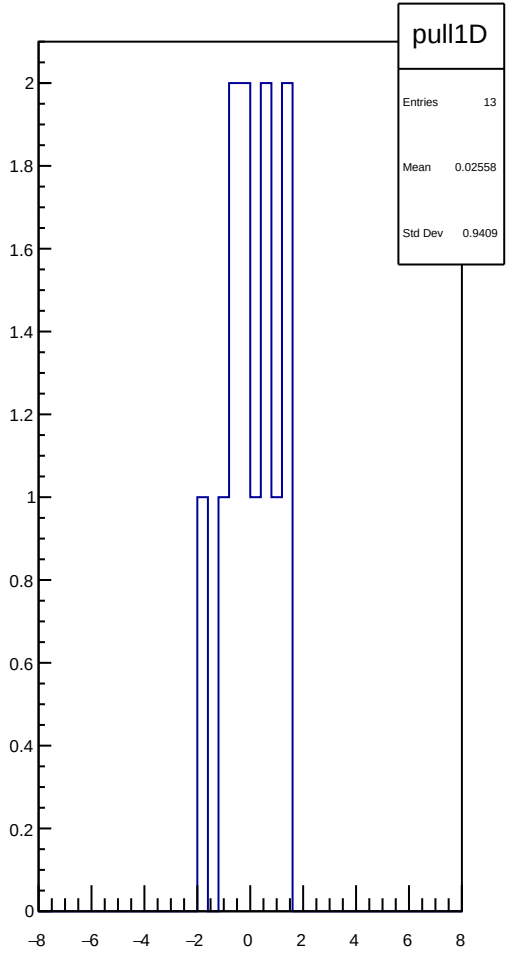

asym_sam2_rms vs run
χ² / ndf 867 / 11
p0 5767 ± 11.8
7000
6000
5000
4000
3000
2000
1000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

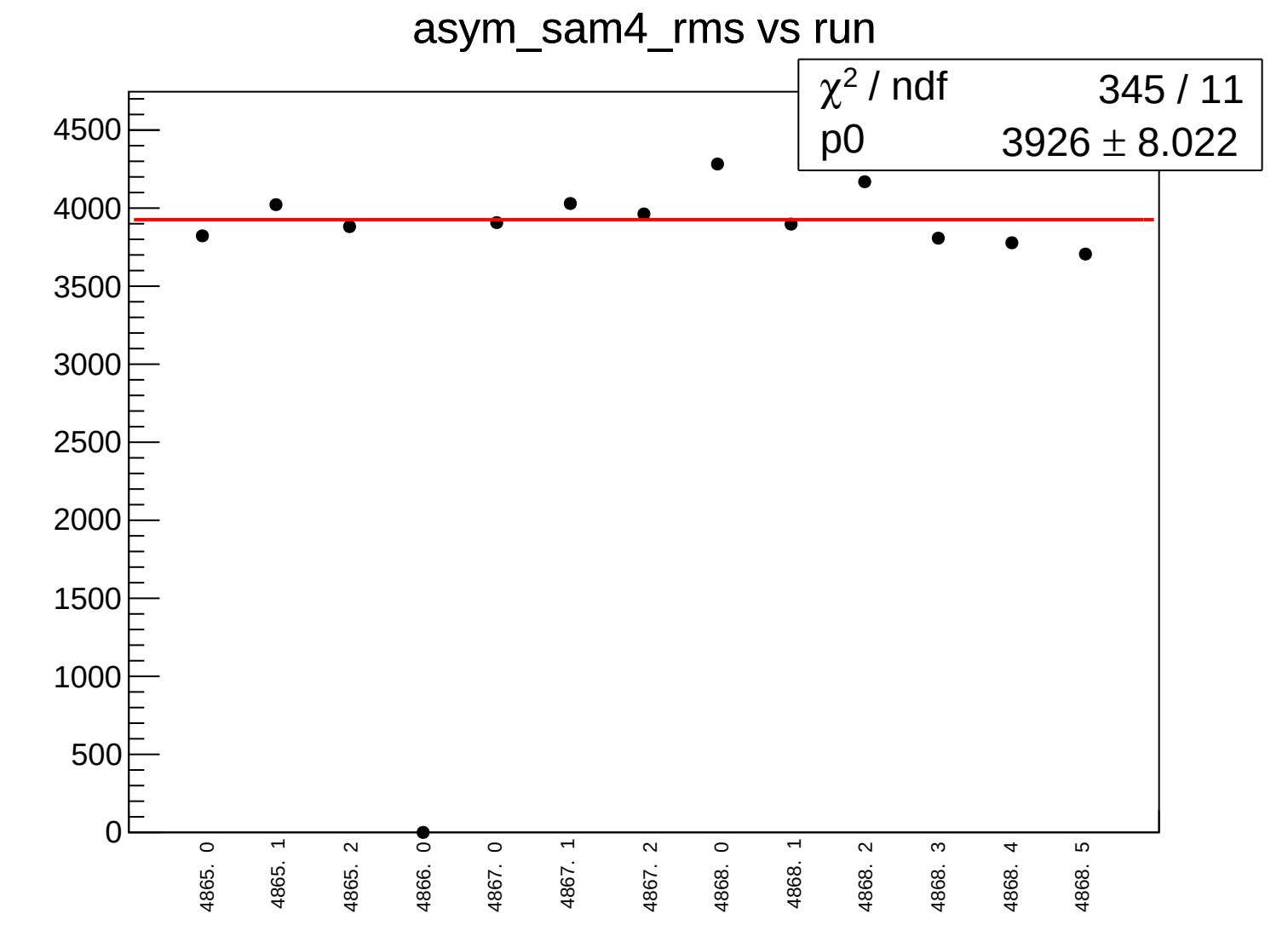

asym_sam3_mean vs run
×10^3
χ² / ndf 9.029 / 11
p0 1.567e+04 ± 2.41e+04
200
100
0
−100
−200
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

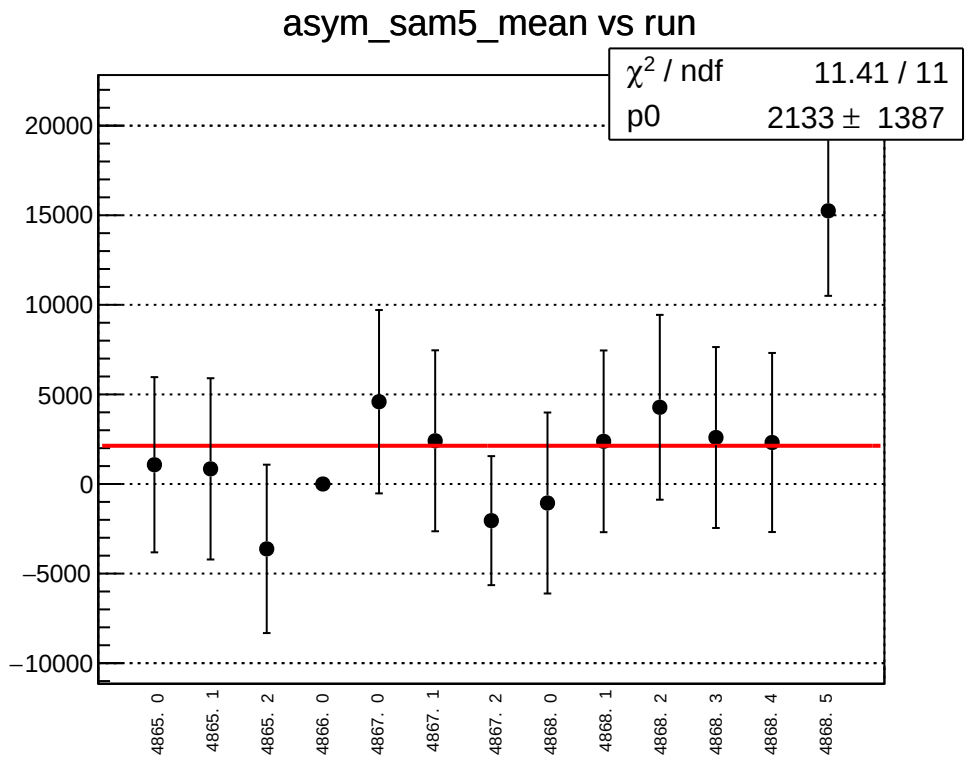

pull1D
Entries 13
Mean 0.0299
Std Dev 0.8669
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

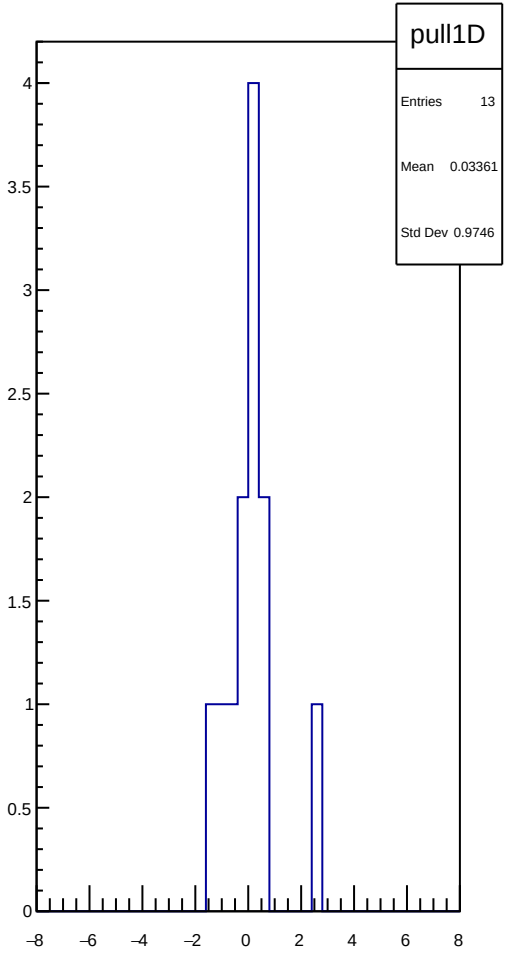

asym_sam3_rms vs run
χ² / ndf 657.2 / 11
p0 8334 ± 17.04
10000
8000
6000
4000
2000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

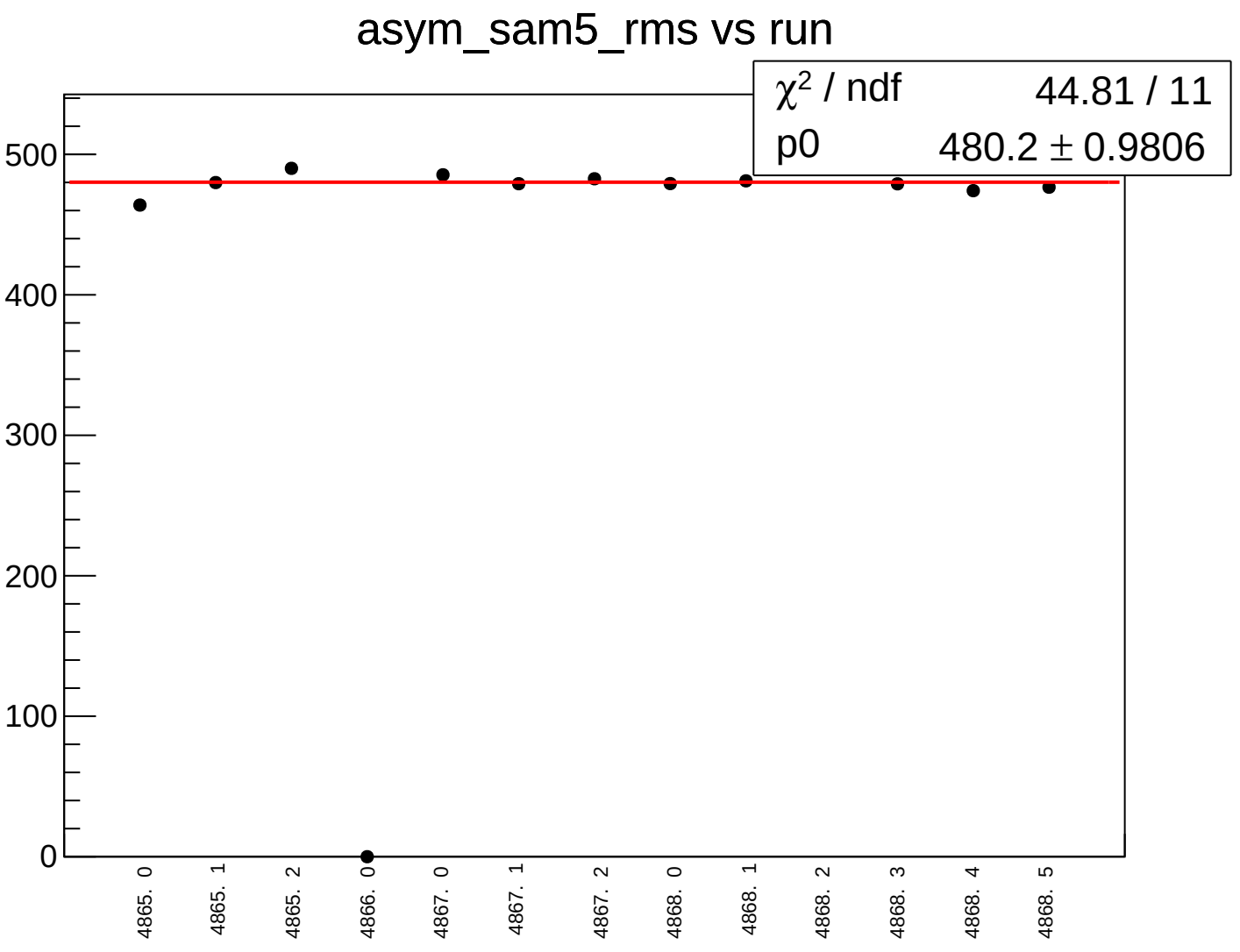

asym_sam4_mean vs run
×10^3
χ² / ndf 10.63 / 11
p0 9659 ± 1.135e+04
100
50
0
−50
−100
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

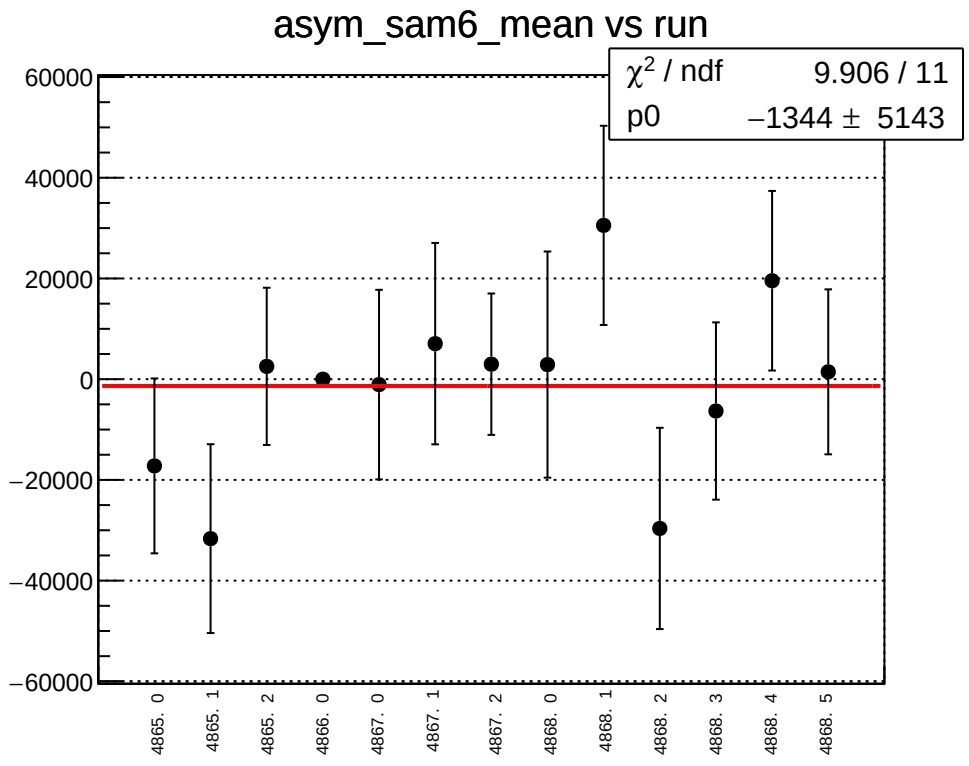

pull1D
Entries 13
Mean 0.02558
Std Dev 0.9409
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

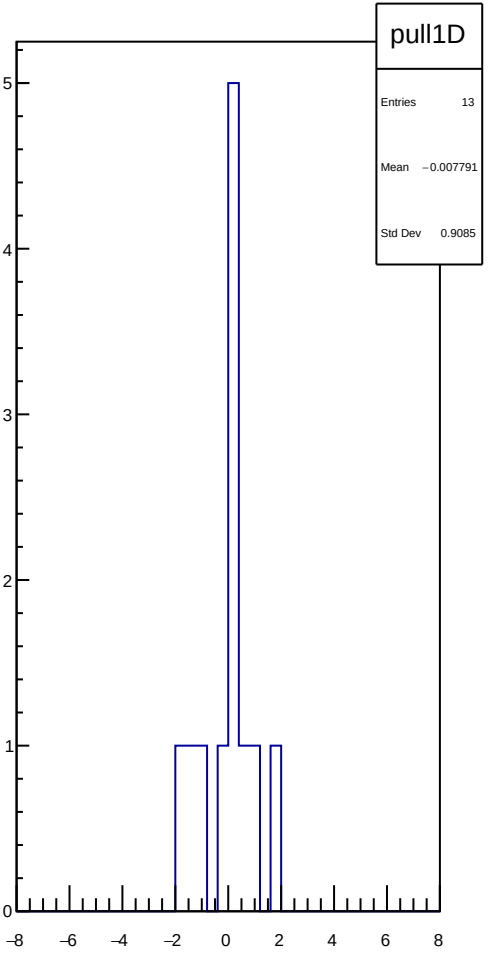

asym_sam4_rms vs run
χ² / ndf 345 / 11
p0 3926 ± 8.022
4500
4000
3500
3000
2500
2000
1500
1000
500
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

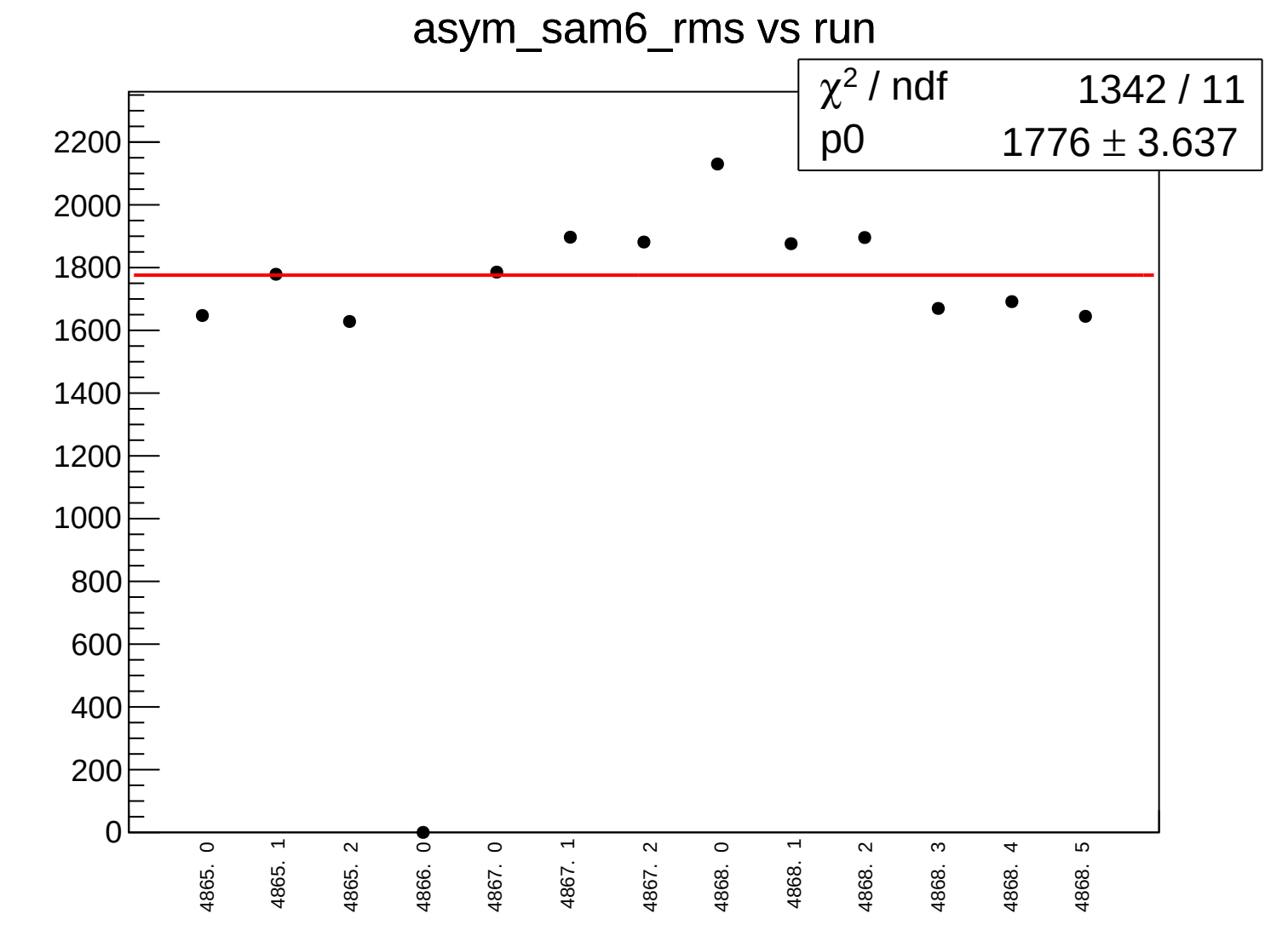

asym_sam5_mean vs run
χ² / ndf 11.41 / 11
p0 2133 ± 1387
20000
15000
10000
5000
0
−5000
−10000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

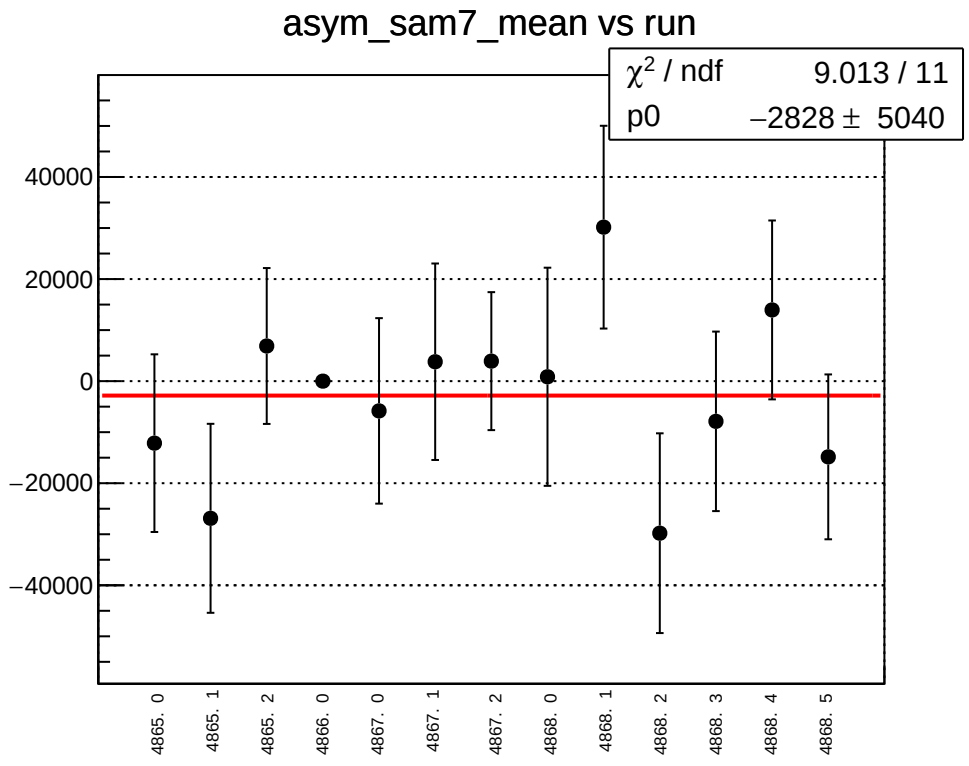

pull1D
Entries 13
Mean 0.03361
Std Dev 0.9746
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

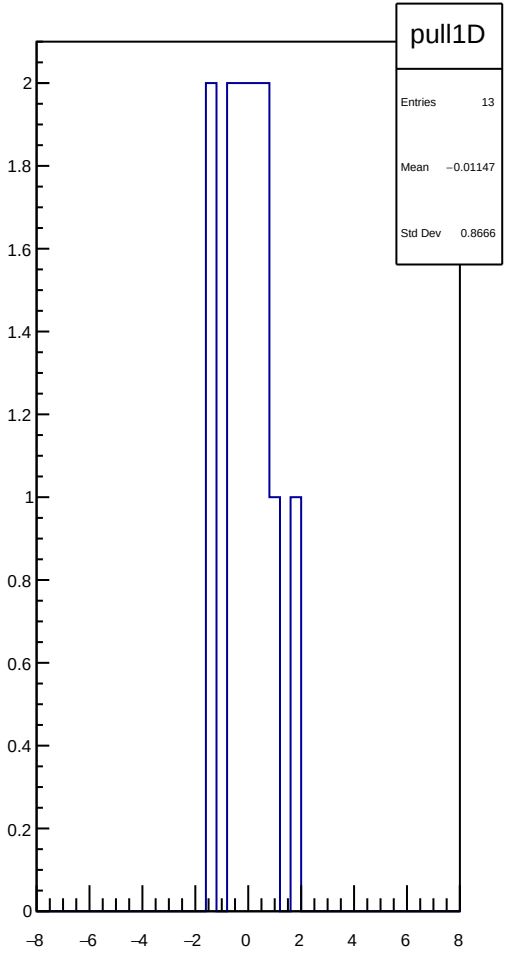

asym_sam5_rms vs run
χ² / ndf 44.81 / 11
p0 480.2 ± 0.9806
500
400
300
200
100
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

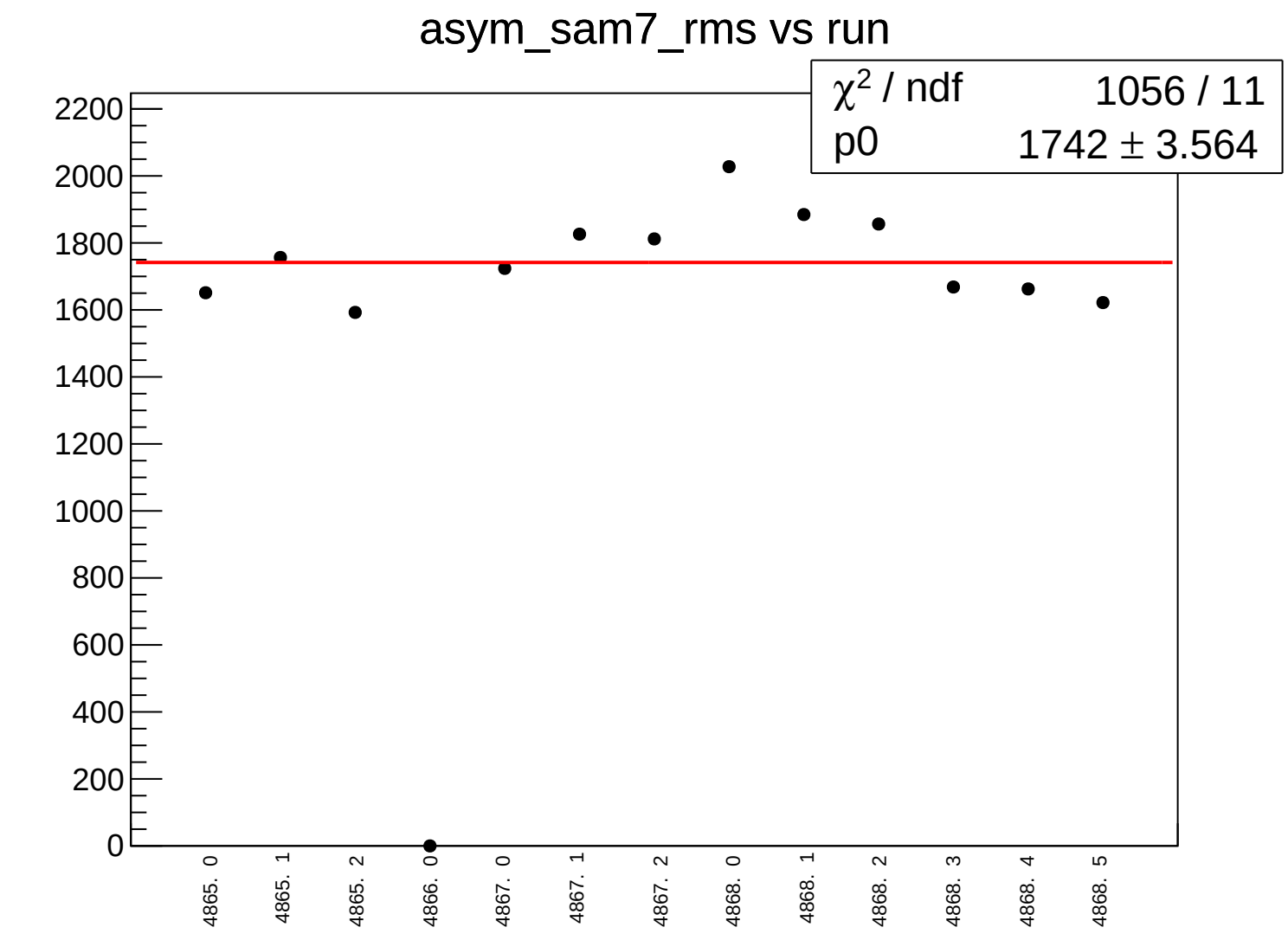

asym_sam6_mean vs run
χ² / ndf 9.906 / 11
p0 −1344 ± 5143
60000
40000
20000
0
−20000
−40000
−60000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

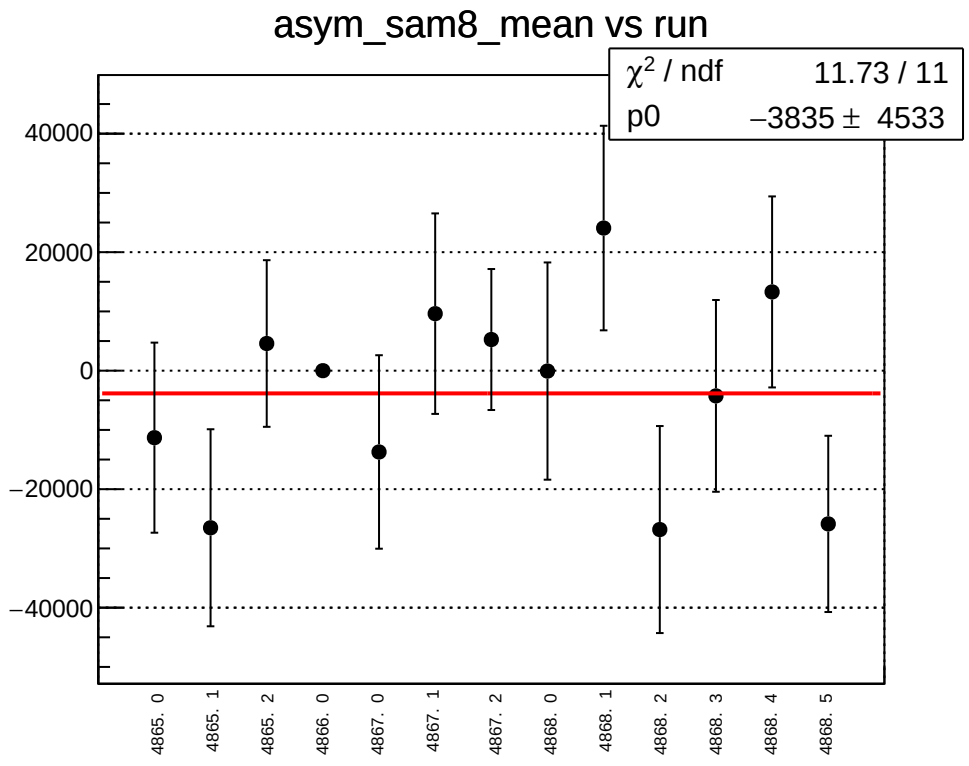

pull1D
Entries 13
Mean −0.007791
Std Dev 0.9085
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

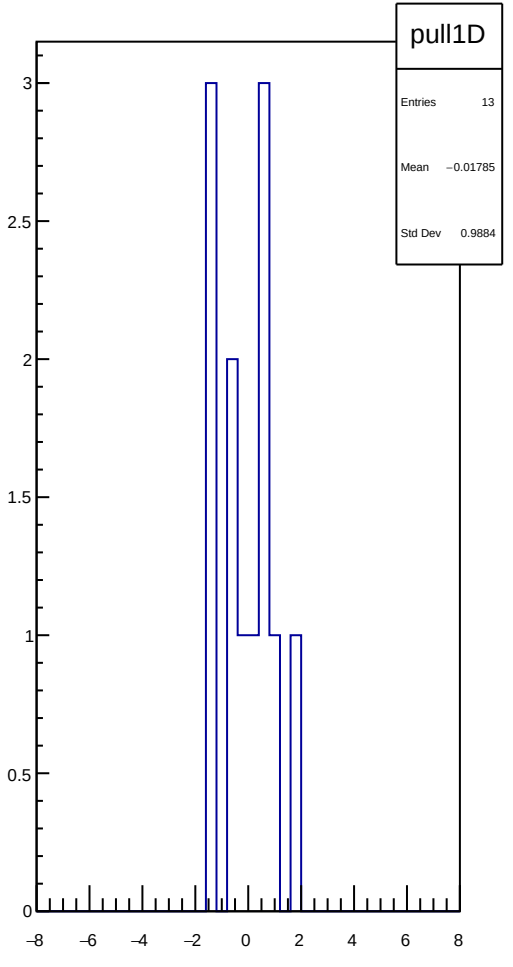

asym_sam6_rms vs run
χ² / ndf 1342 / 11
p0 1776 ± 3.637
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

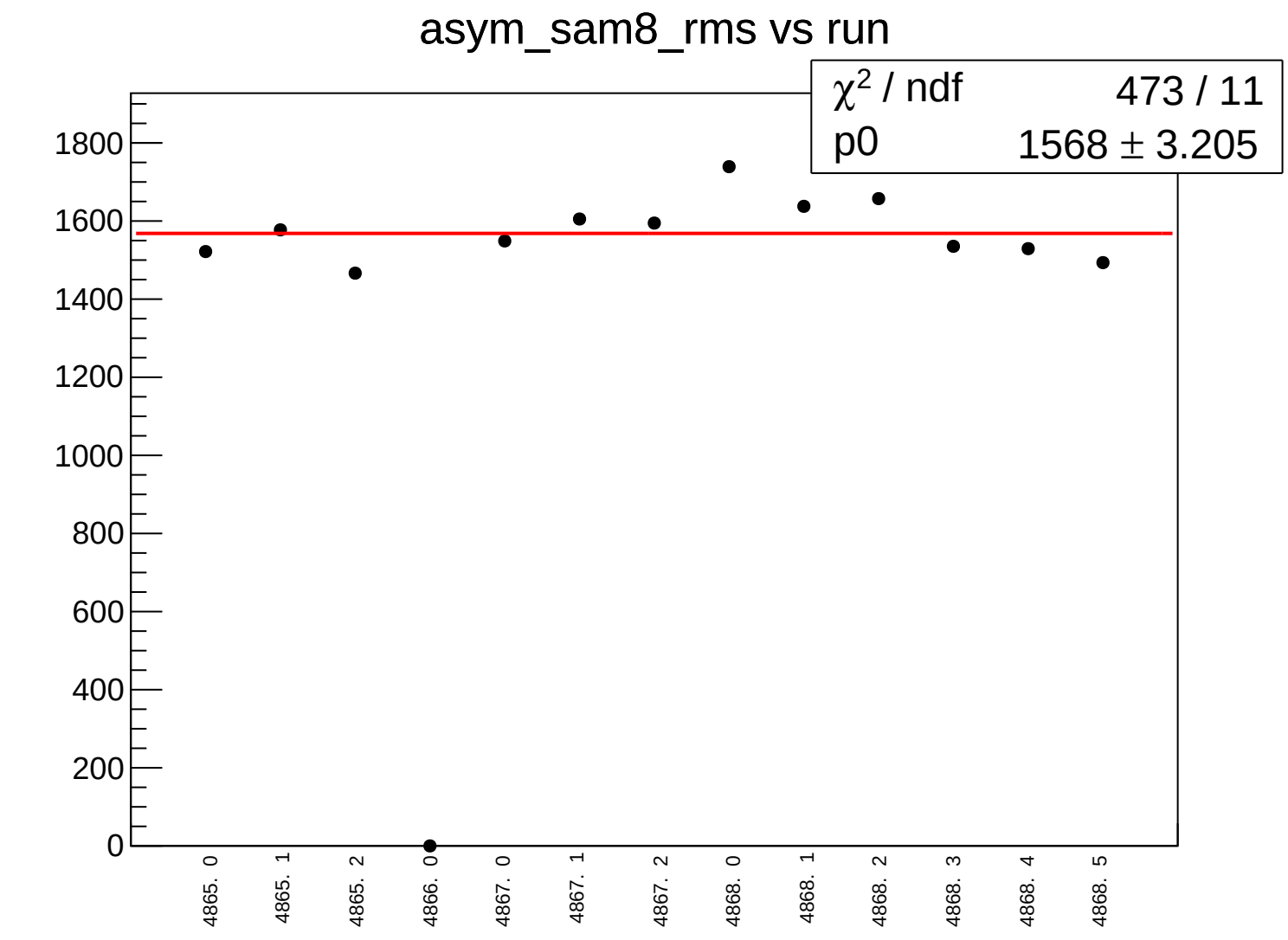

asym_sam7_mean vs run
χ² / ndf 9.013 / 11
p0 −2828 ± 5040
40000
20000
0
−20000
−40000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

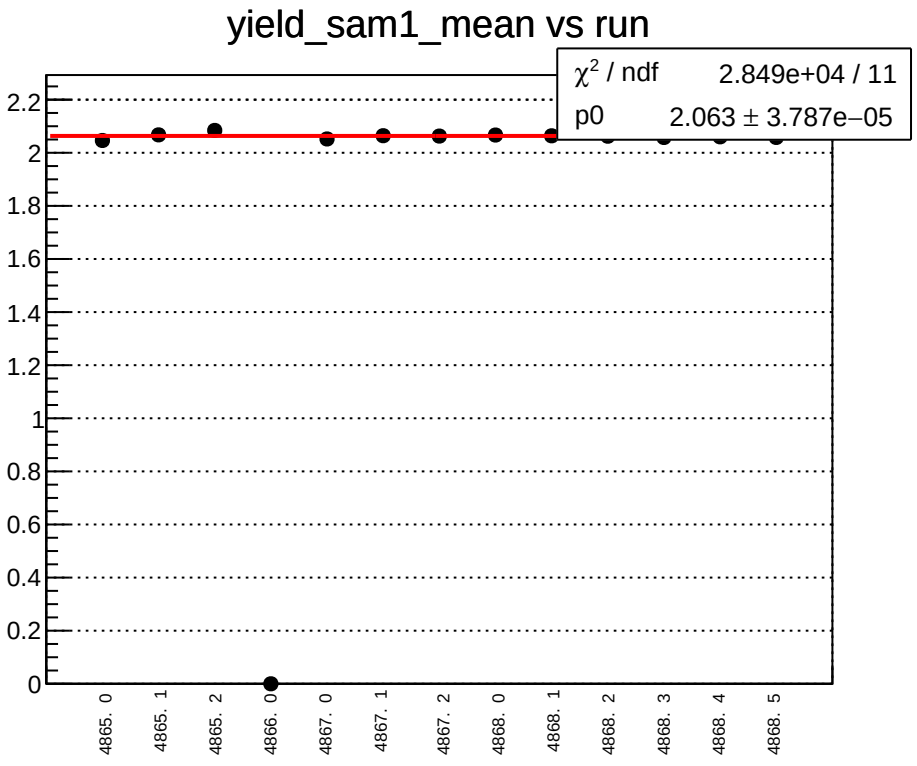

pull1D
Entries 13
Mean −0.01147
Std Dev 0.8666
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

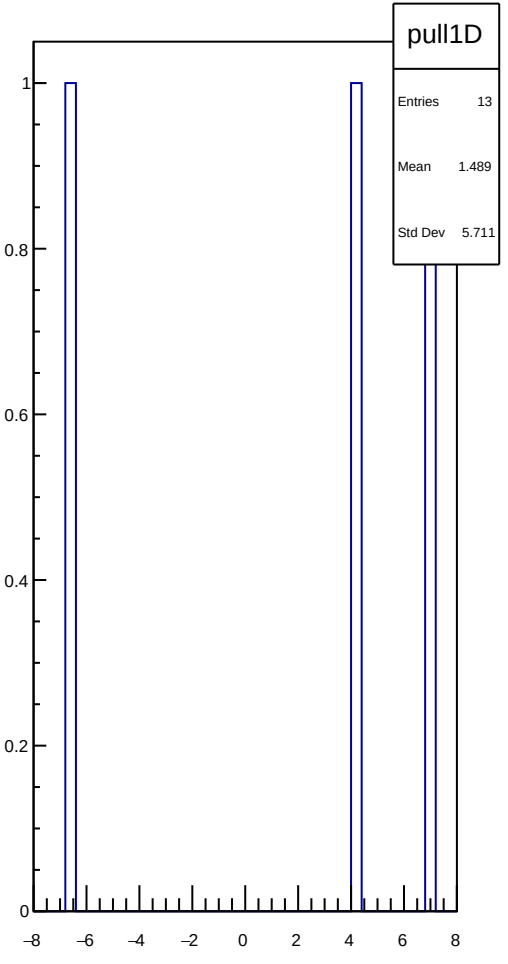

asym_sam7_rms vs run
χ² / ndf 1056 / 11
p0 1742 ± 3.564
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

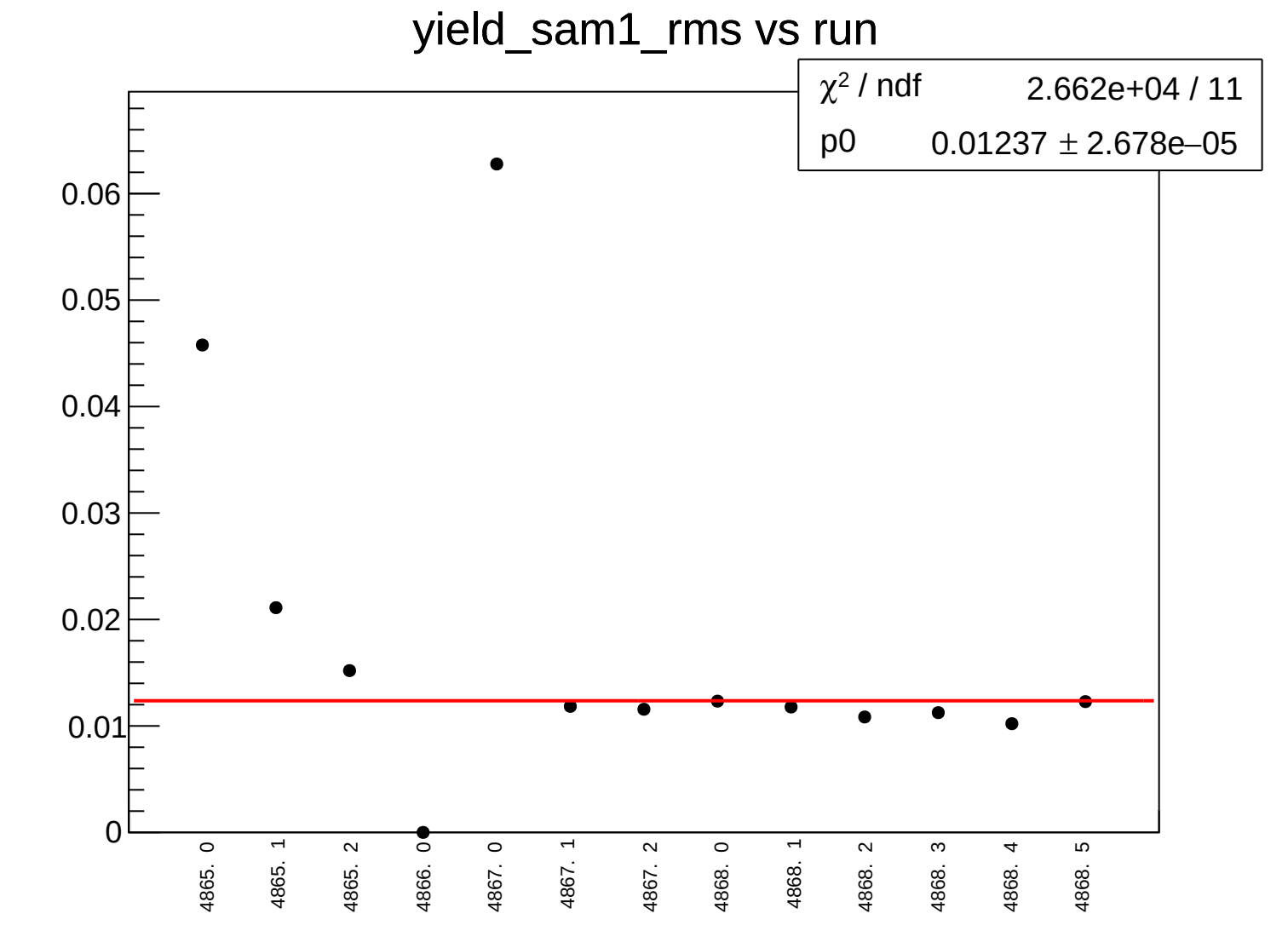

asym_sam8_mean vs run
χ² / ndf 11.73 / 11
p0 −3835 ± 4533
40000
20000
0
−20000
−40000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

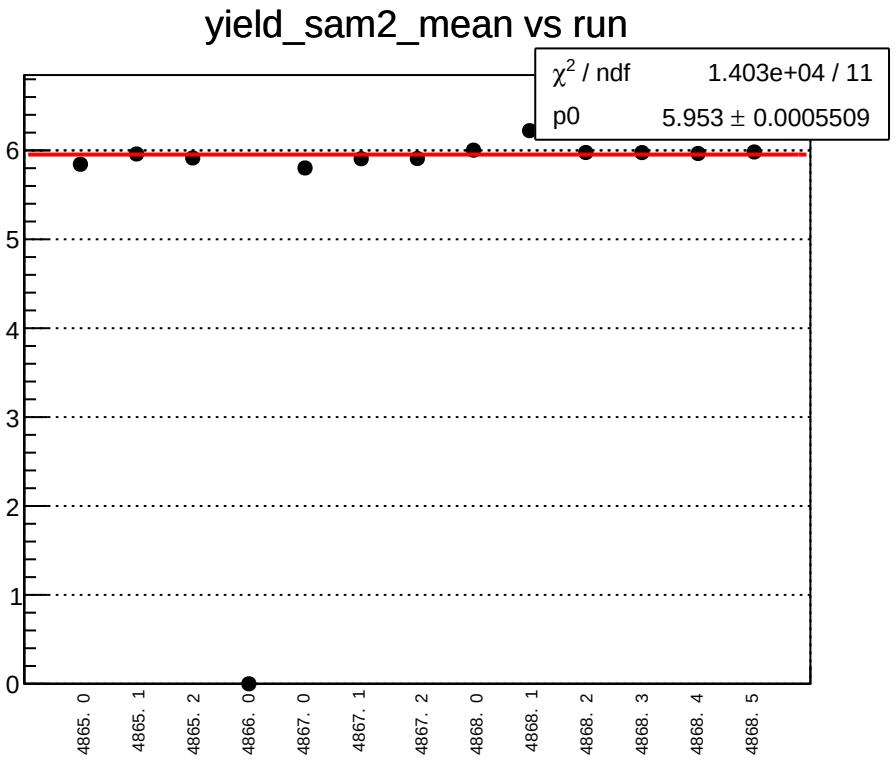

pull1D
Entries 13
Mean −0.01785
Std Dev 0.9884
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

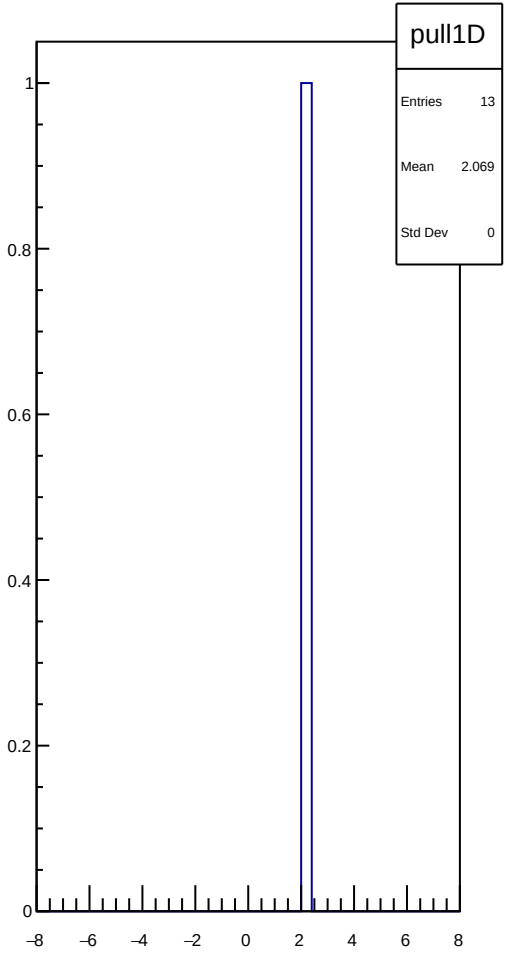

asym_sam8_rms vs run
χ^2 / ndf 473 / 11
p0 1568 ± 3.205
1800
1600
1400
1200
1000
800
600
400
200
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

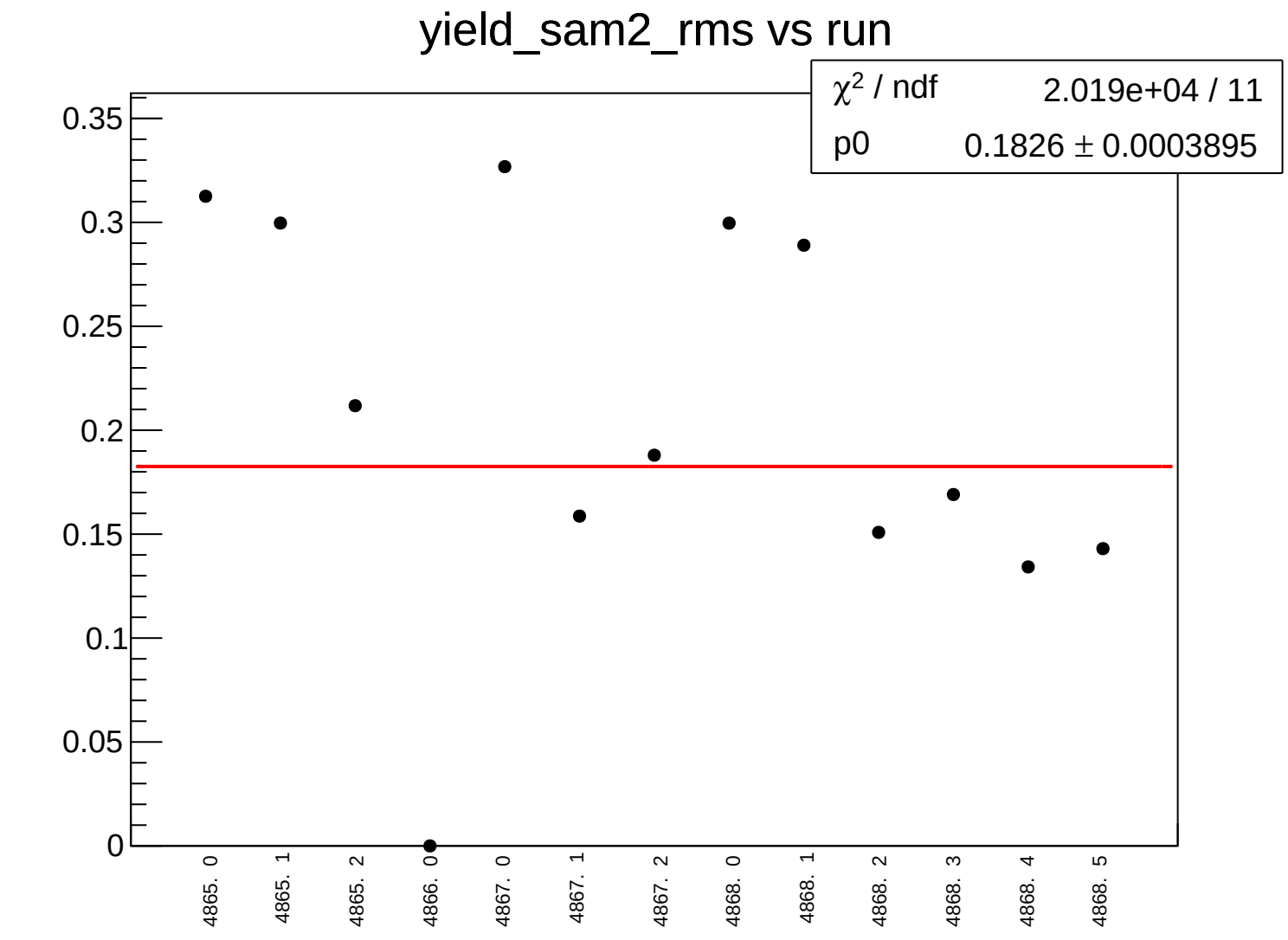

yield_sam1_mean vs run
χ² / ndf 2.849e+04 / 11
p0 2.063 ± 3.787e−05
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

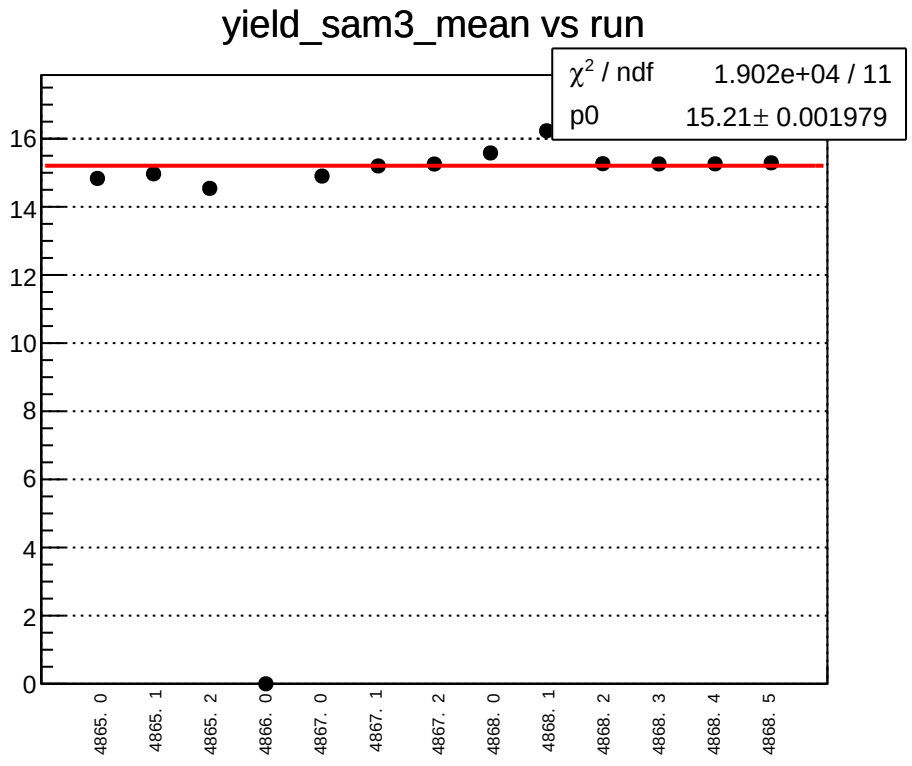

pull1D
Entries 13
Mean 1.489
Std Dev 5.711
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

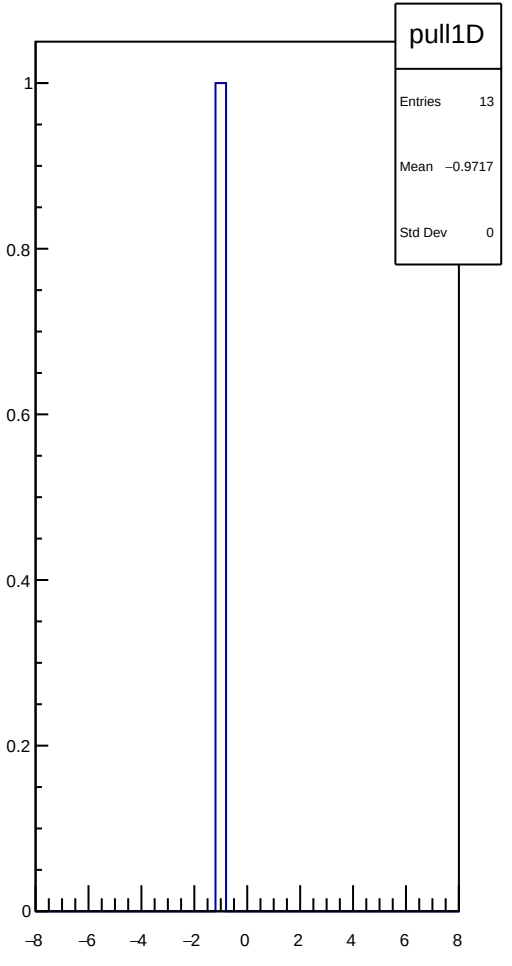

yield_sam1_rms vs run
χ² / ndf 2.662e+04 / 11
p0 0.01237 ± 2.678e–05
0.06
0.05
0.04
0.03
0.02
0.01
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

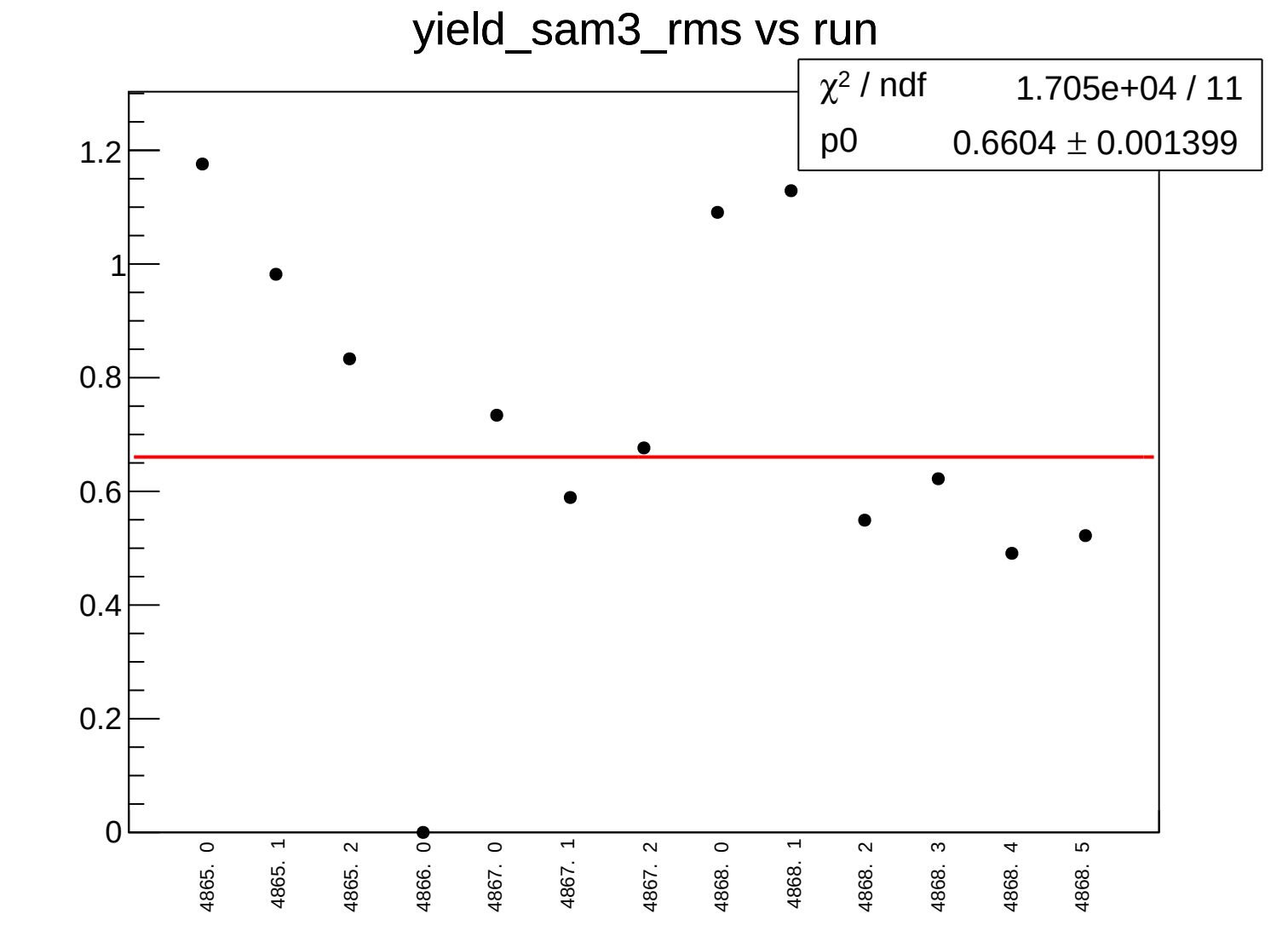

yield_sam2_mean vs run
χ² / ndf 1.403e+04 / 11
p0 5.953 ± 0.0005509
0
1
2
3
4
5
6
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

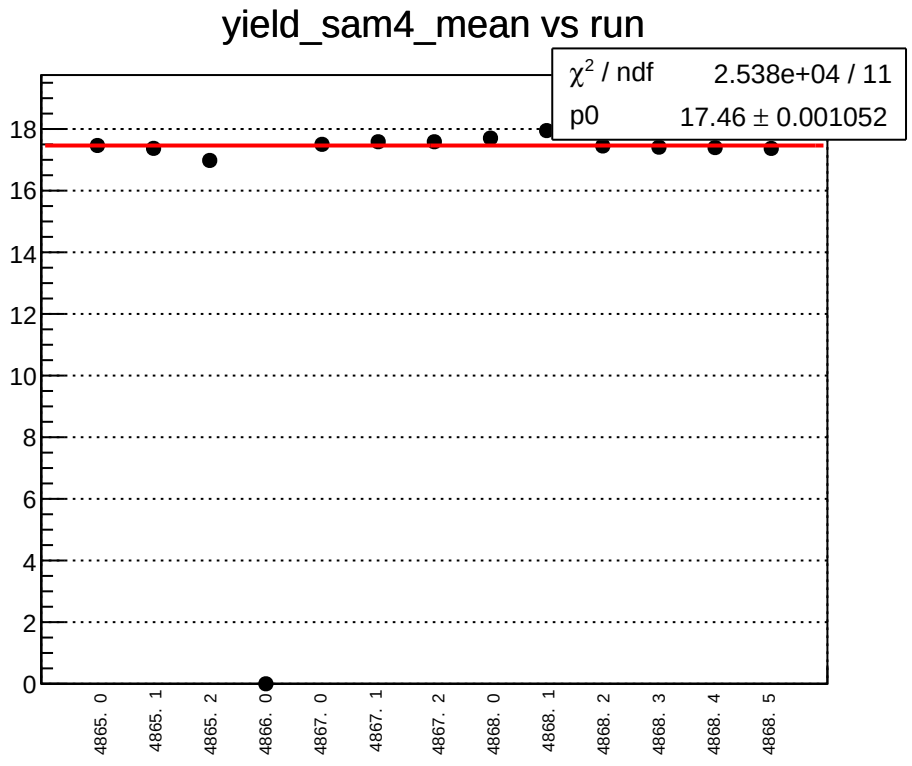

pull1D
Entries 13
Mean 2.069
Std Dev 0
0
0.2
0.4
0.6
0.8
1
−8
−6
−4
−2
0
2
4
6
8

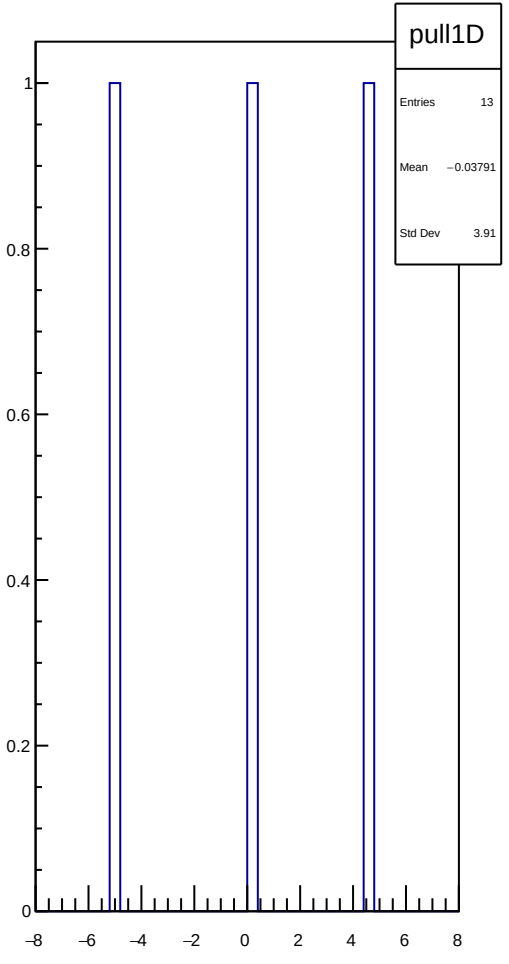

yield_sam2_rms vs run
χ² / ndf 2.019e+04 / 11
p0 0.1826 ± 0.0003895
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

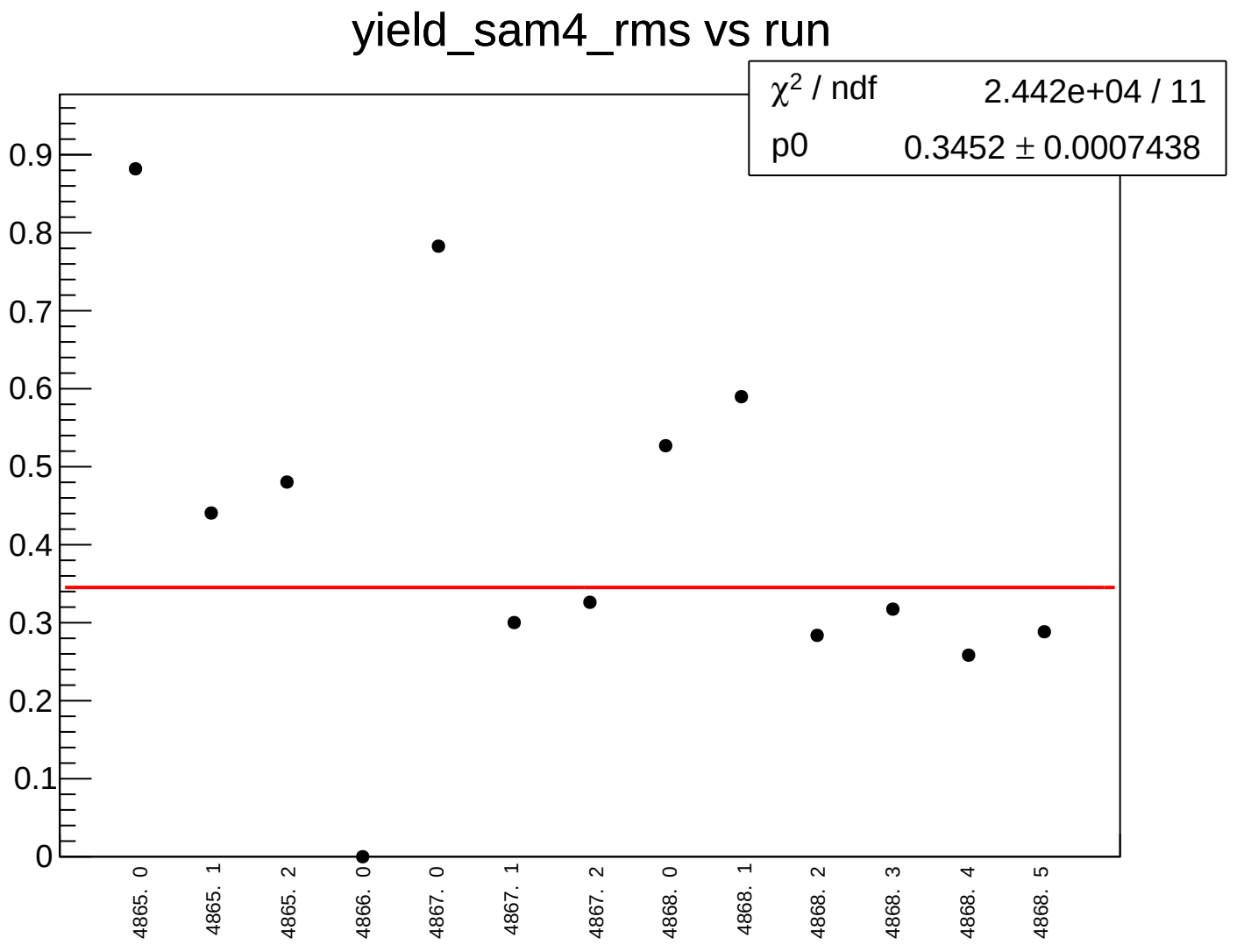

yield_sam3_mean vs run
χ² / ndf 1.902e+04 / 11
p0 15.21± 0.001979
16
14
12
10
8
6
4
2
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

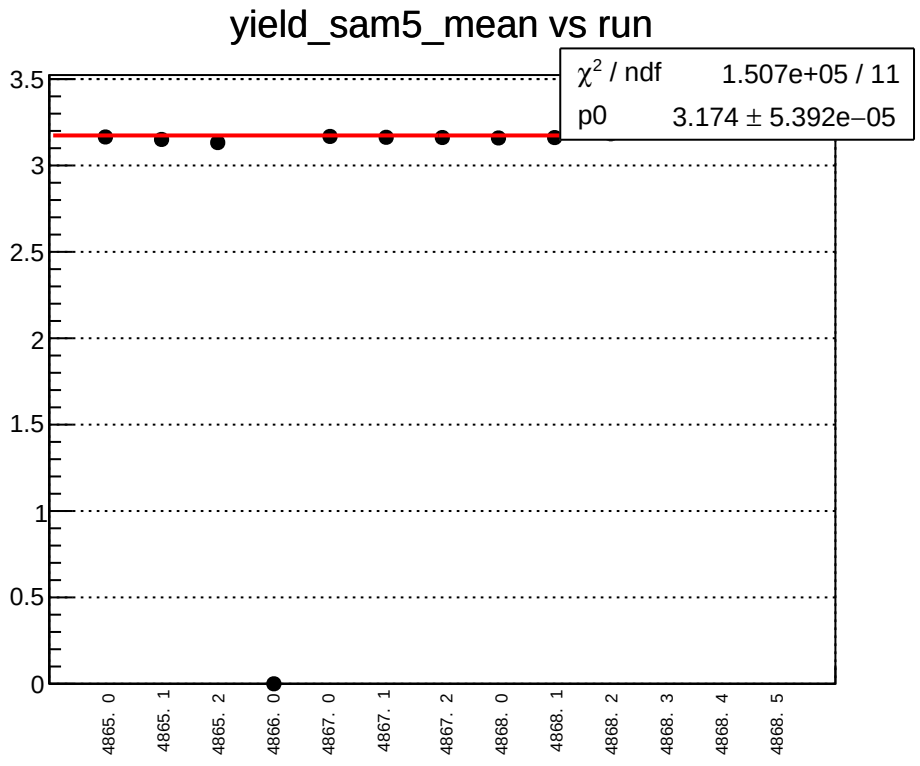

pull1D
Entries 13
Mean −0.9717
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

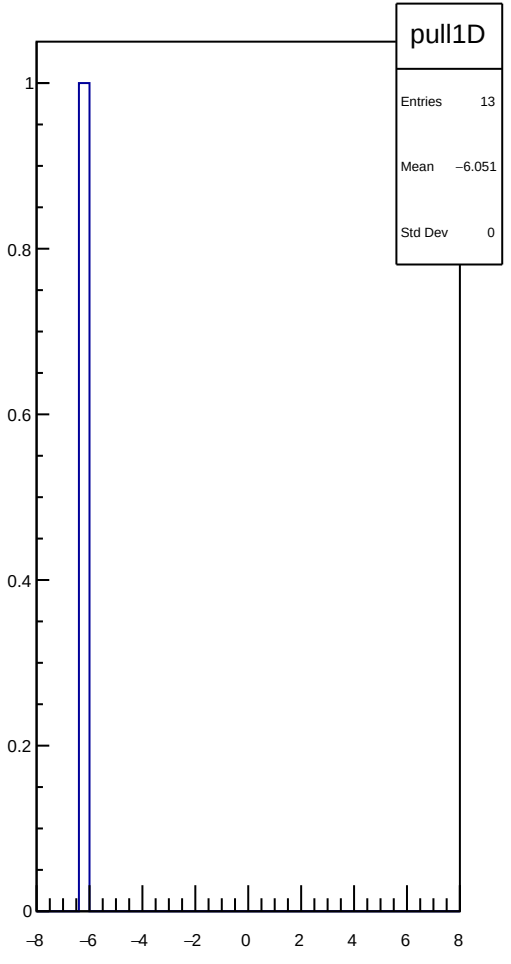

yield_sam3_rms vs run
χ² / ndf 1.705e+04 / 11
p0 0.6604 ± 0.001399
1.2
1
0.8
0.6
0.4
0.2
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

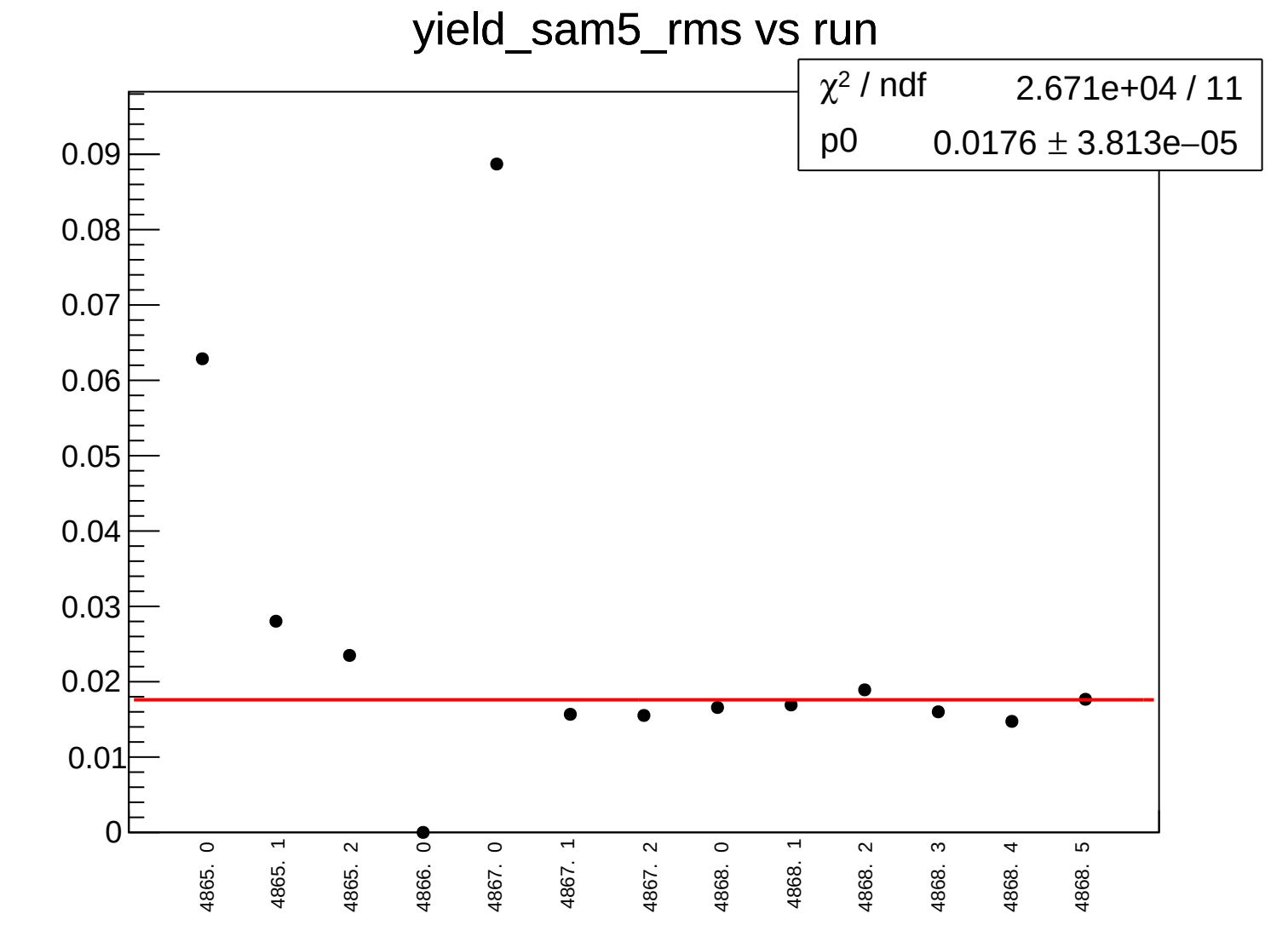

yield_sam4_mean vs run
χ² / ndf 2.538e+04 / 11
p0 17.46 ± 0.001052
0
2
4
6
8
10
12
14
16
18
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

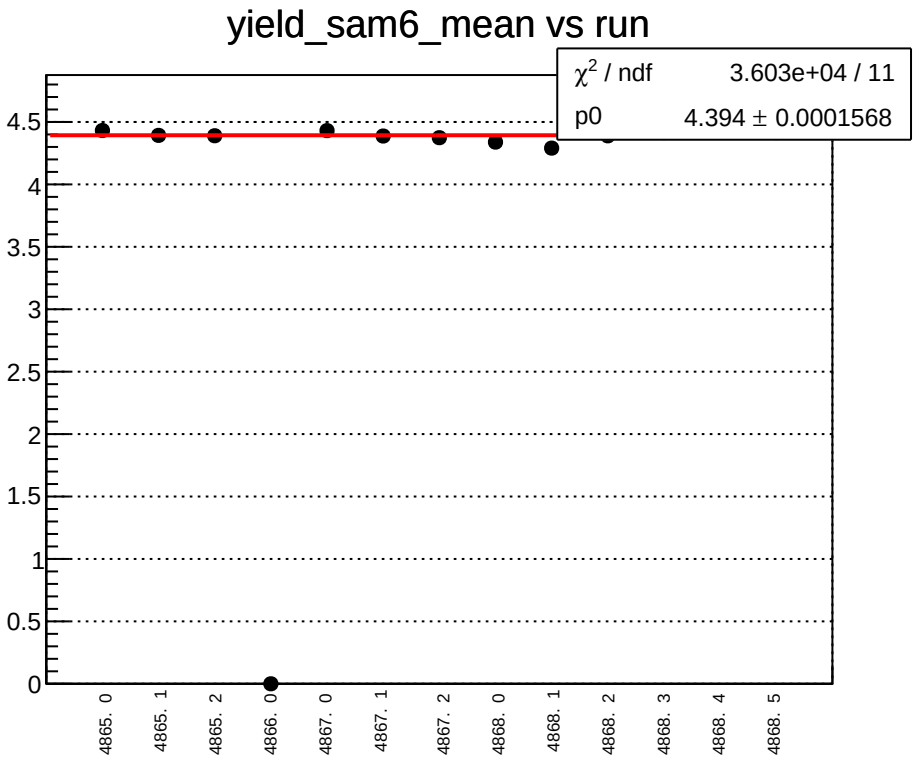

pull1D
Entries 13
Mean −0.03791
Std Dev 3.91
0
0.2
0.4
0.6
0.8
1
−8
−6
−4
−2
0
2
4
6
8

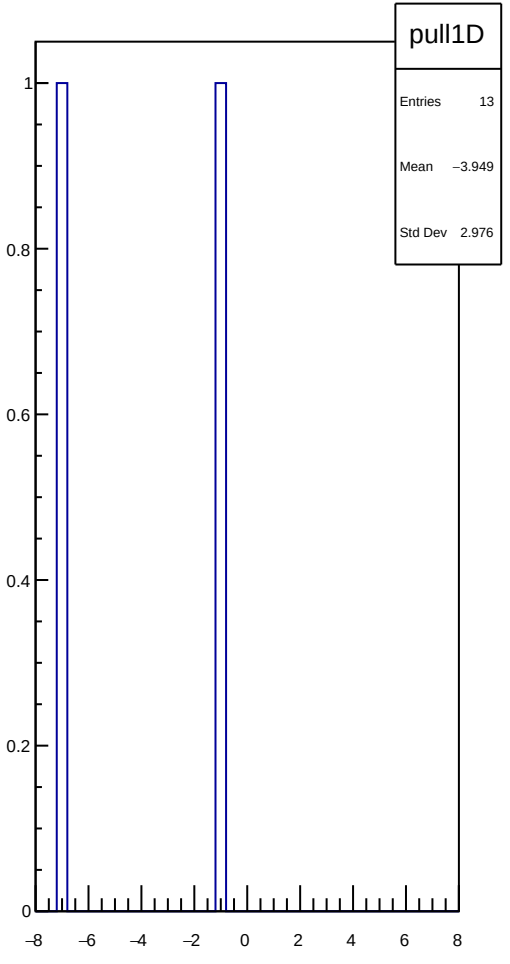

yield_sam4_rms vs run
χ² / ndf 2.442e+04 / 11
p0 0.3452 ± 0.0007438
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

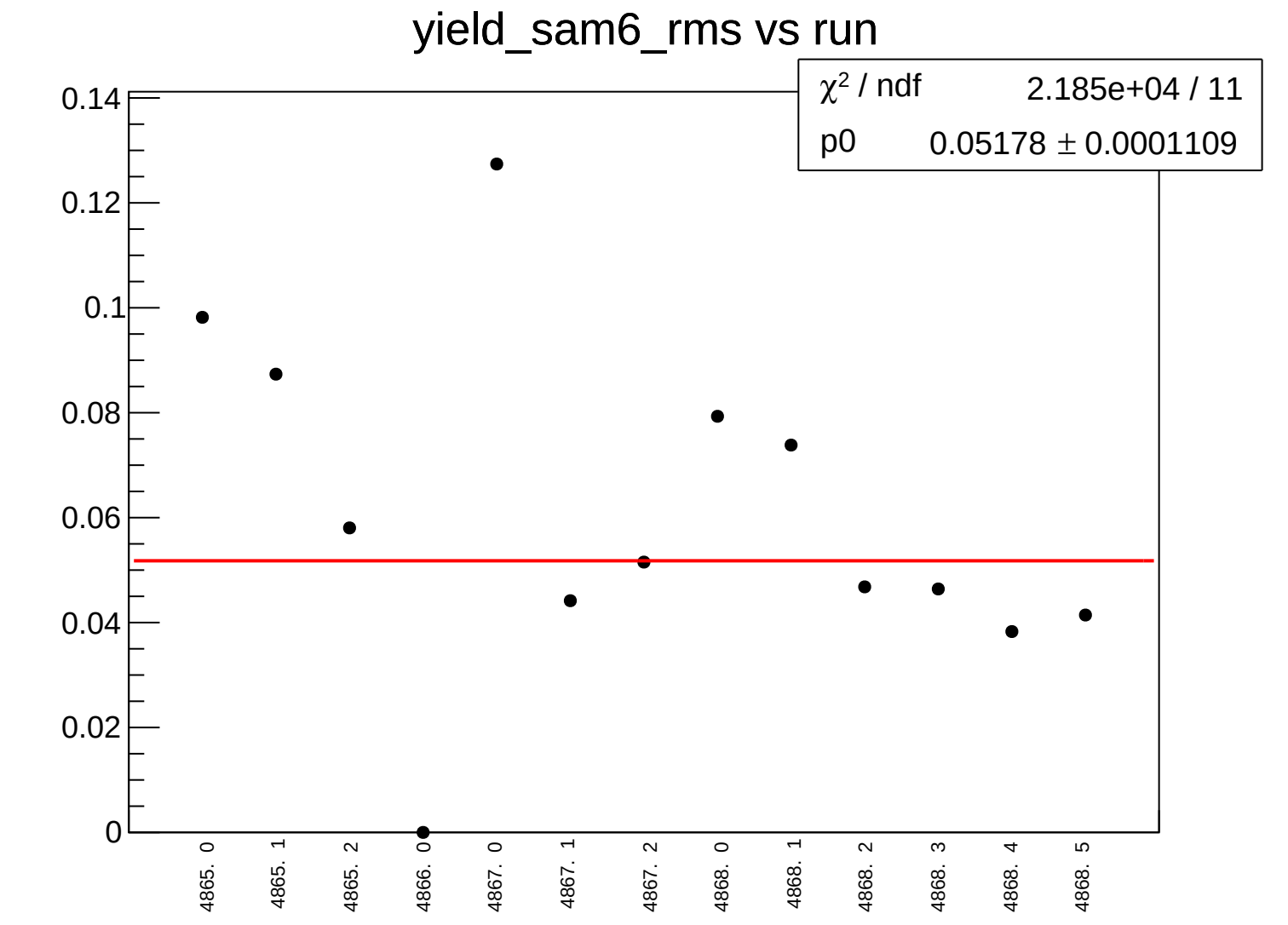

yield_sam5_mean vs run
χ² / ndf 1.507e+05 / 11
p0 3.174 ± 5.392e−05
3.5
3
2.5
2
1.5
1
0.5
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

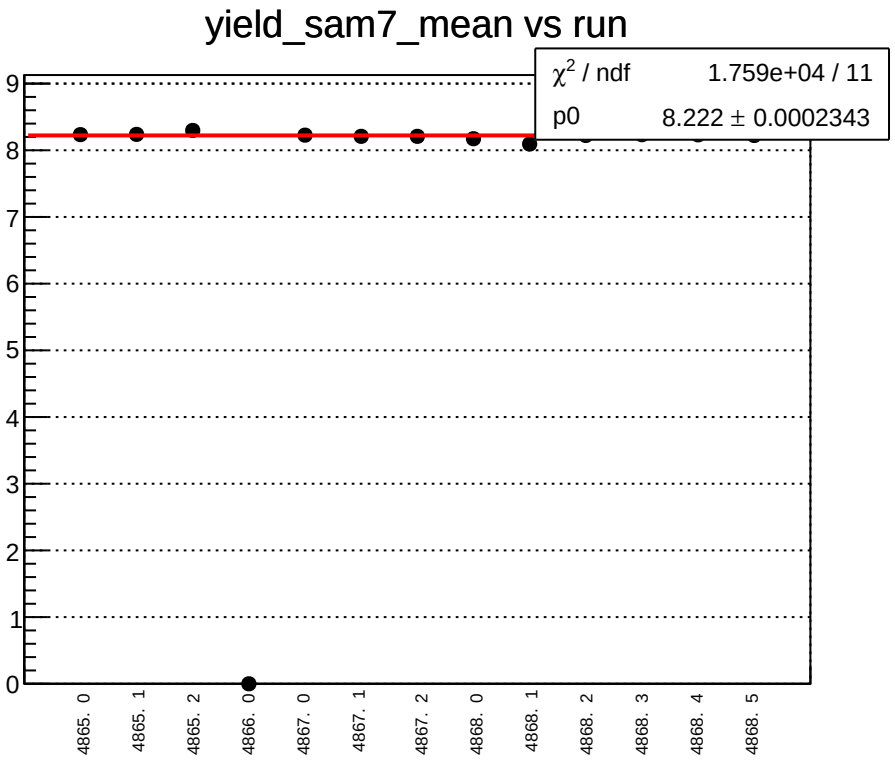

pull1D
Entries 13
Mean −6.051
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

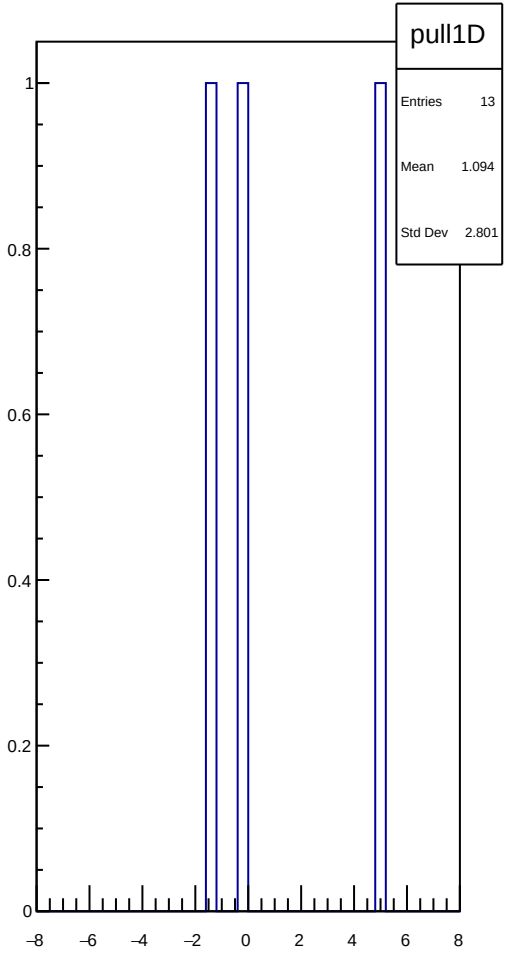

yield_sam5_rms vs run
χ² / ndf 2.671e+04 / 11
p0 0.0176 ± 3.813e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

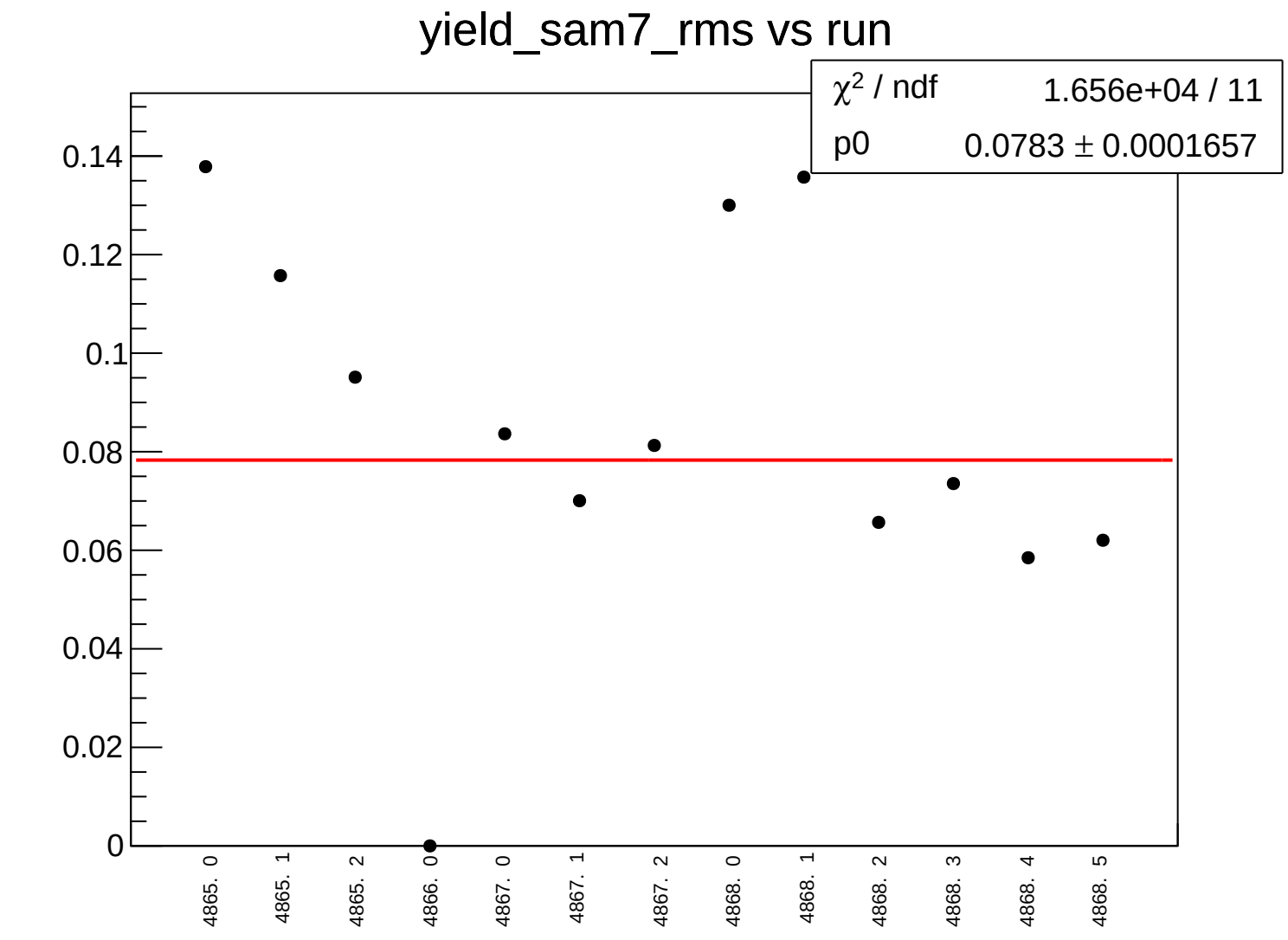

yield_sam6_mean vs run
χ² / ndf 3.603e+04 / 11
p0 4.394 ± 0.0001568
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

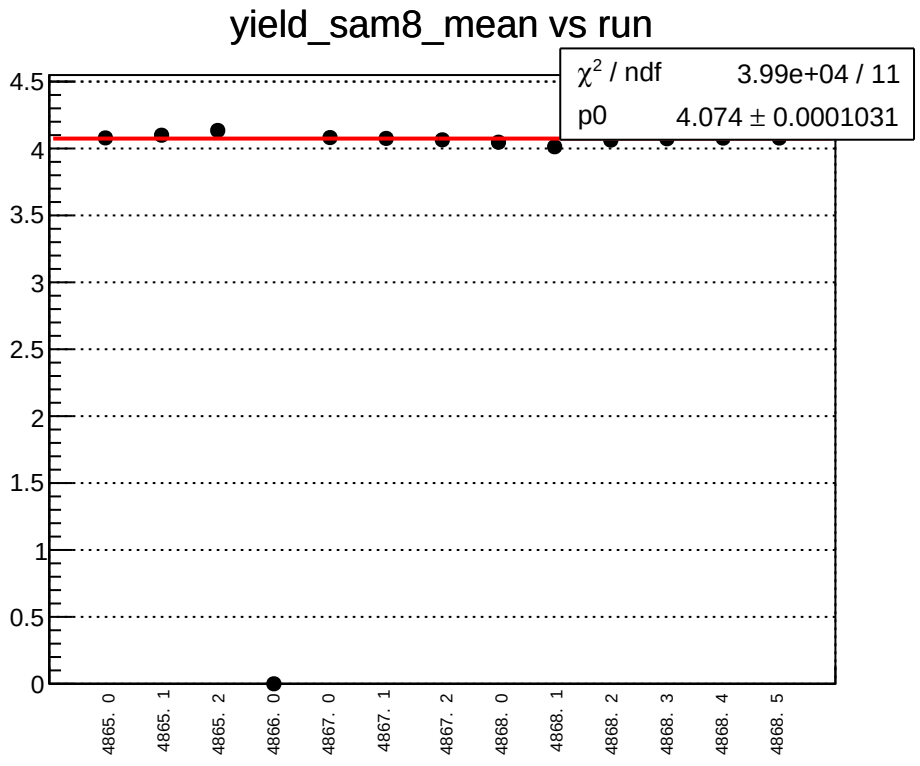

pull1D
Entries 13
Mean −3.949
Std Dev 2.976
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

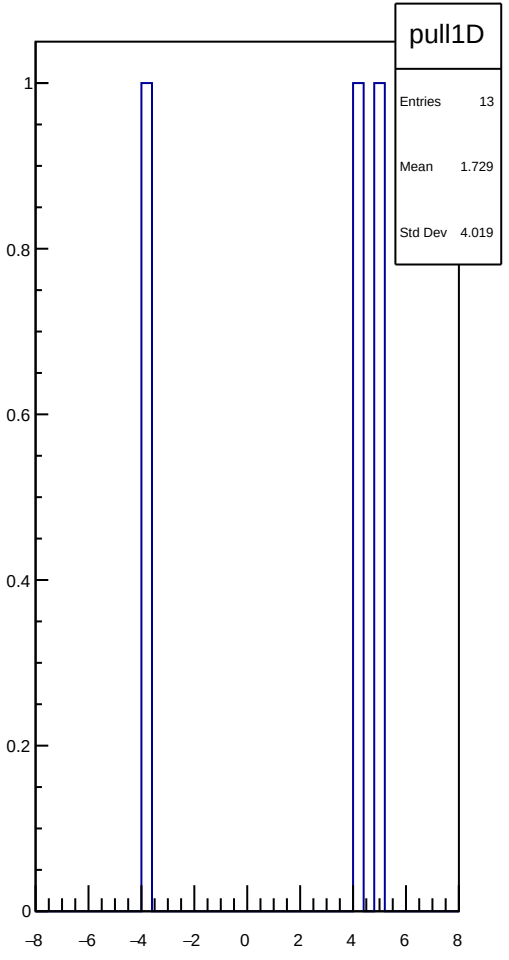

yield_sam6_rms vs run
χ² / ndf 2.185e+04 / 11
p0 0.05178 ± 0.0001109
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

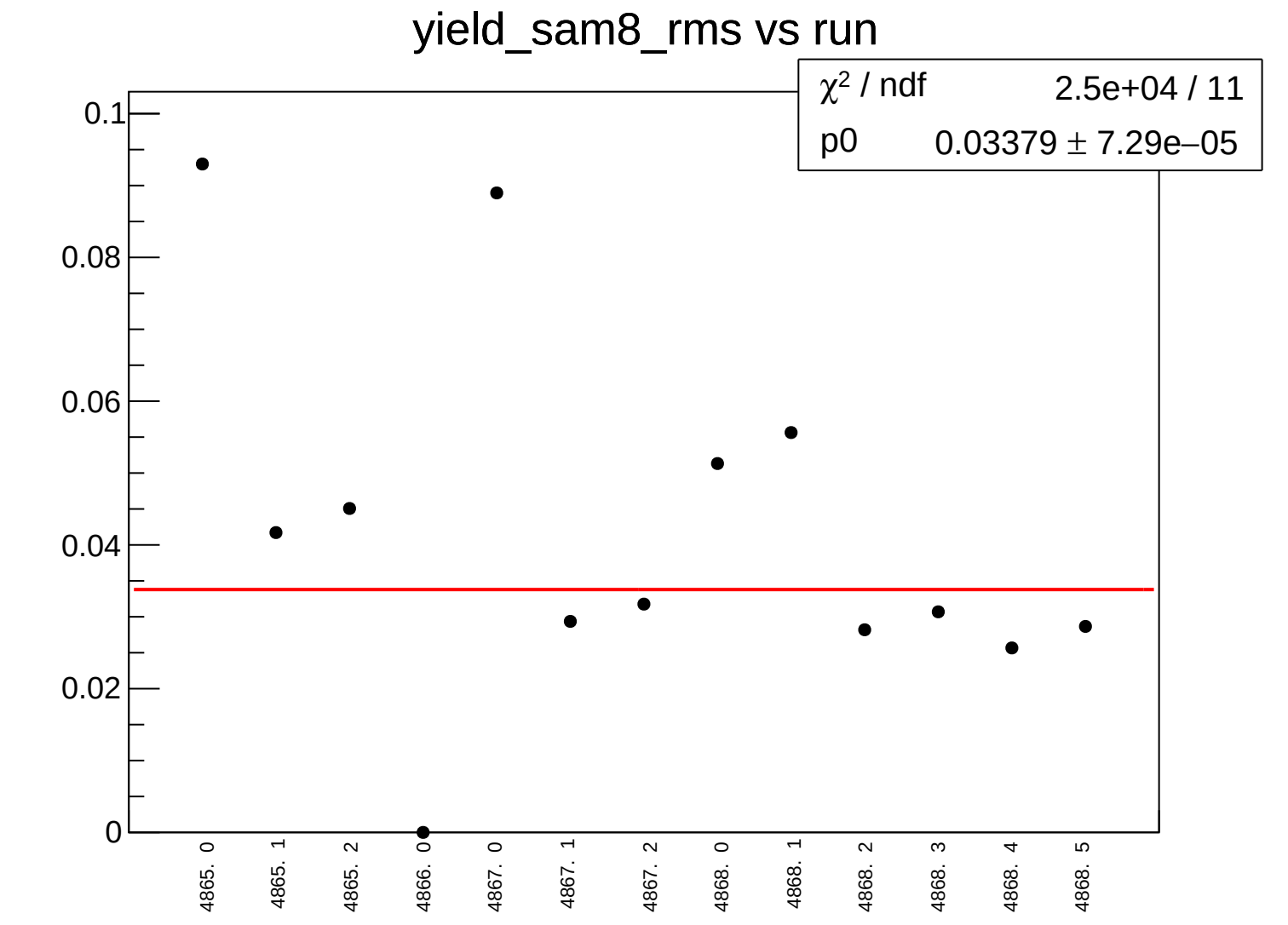

yield_sam7_mean vs run
χ² / ndf 1.759e+04 / 11
p0 8.222 ± 0.0002343
0
1
2
3
4
5
6
7
8
9
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

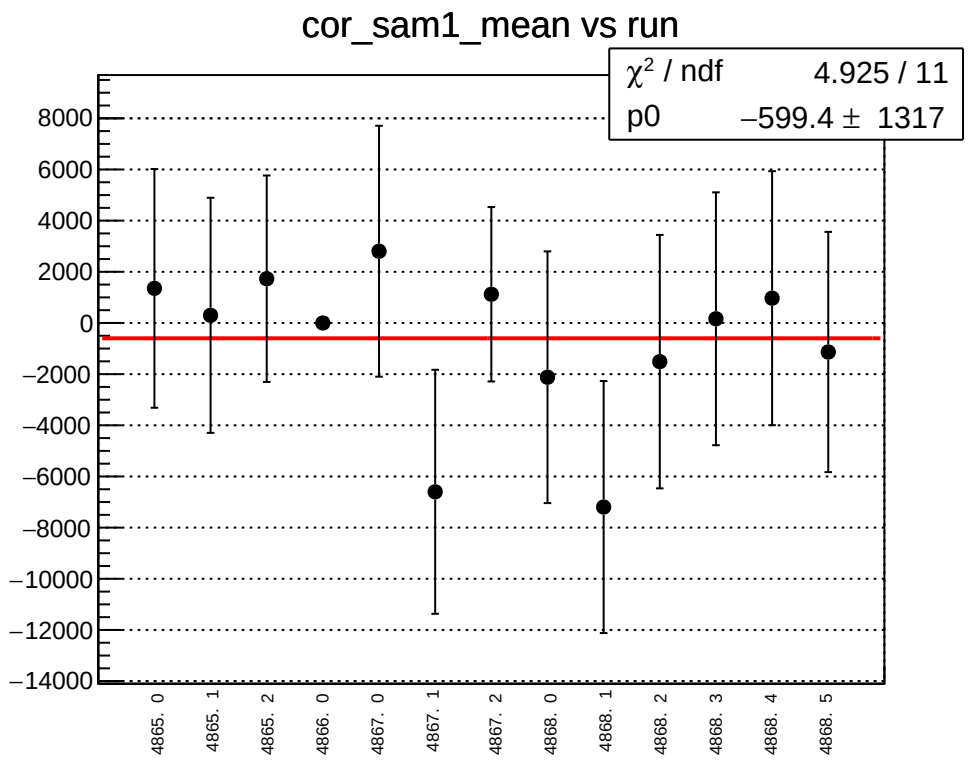

pull1D
Entries 13
Mean 1.094
Std Dev 2.801
0
0.2
0.4
0.6
0.8
1
−8
−6
−4
−2
0
2
4
6
8

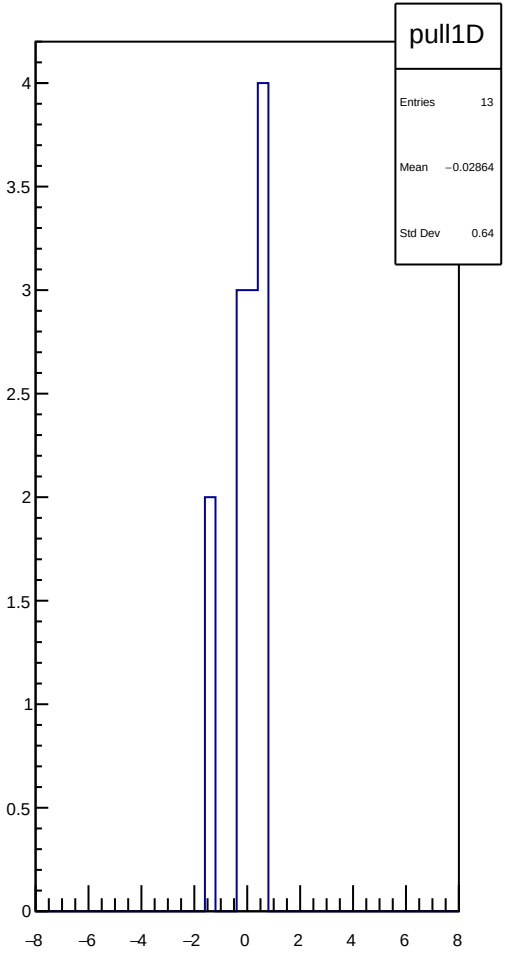

yield_sam7_rms vs run
χ² / ndf 1.656e+04 / 11
p0 0.0783 ± 0.0001657
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

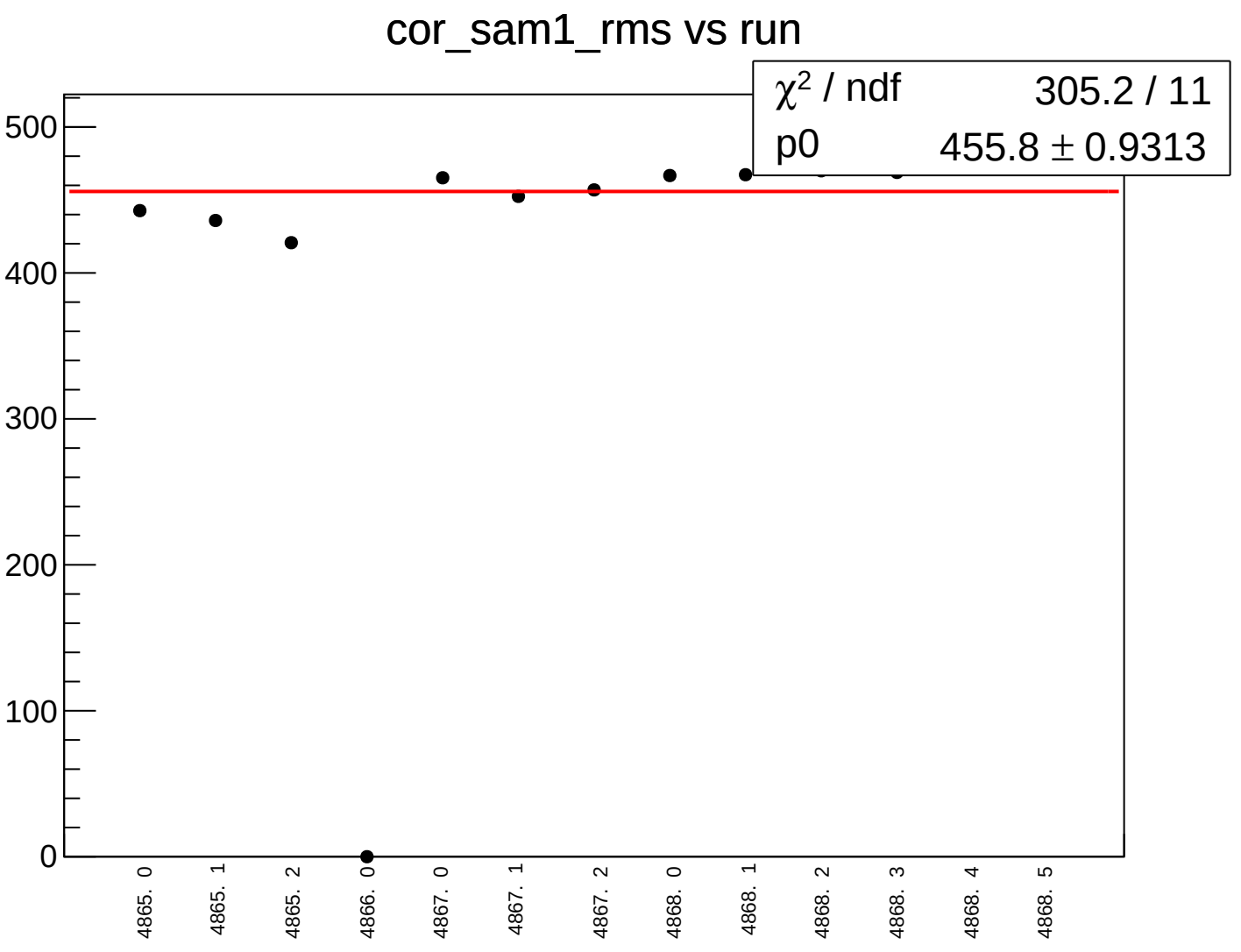

yield_sam8_mean vs run
χ² / ndf 3.99e+04 / 11
p0 4.074 ± 0.0001031
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

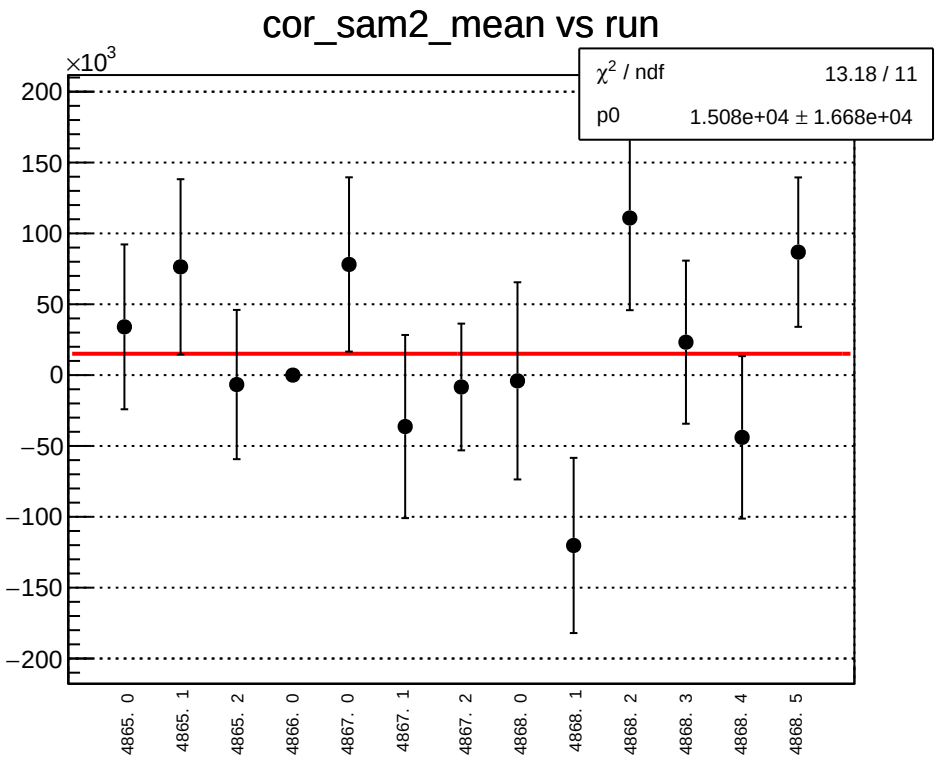

pull1D
Entries 13
Mean 1.729
Std Dev 4.019
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

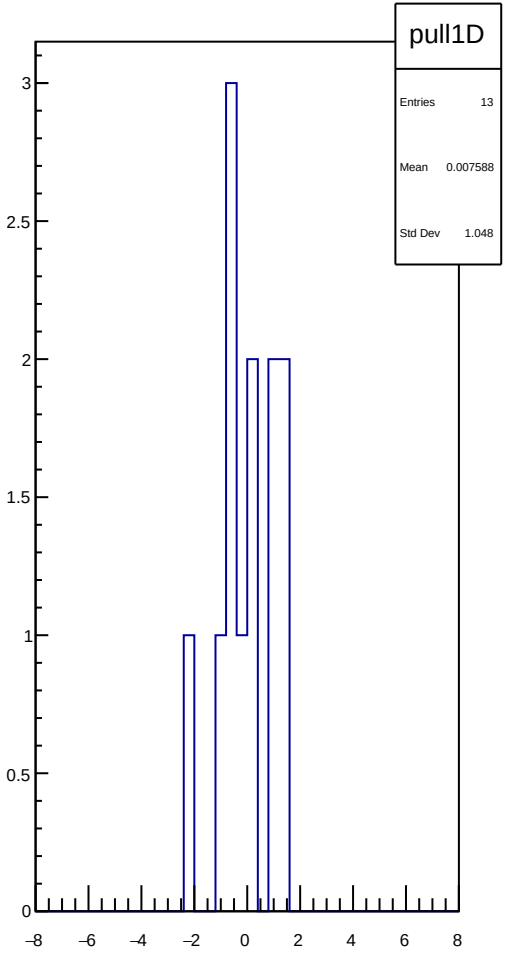

yield_sam8_rms vs run
χ² / ndf 2.5e+04 / 11
p0 0.03379 ± 7.29e−05
0.1
0.08
0.06
0.04
0.02
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

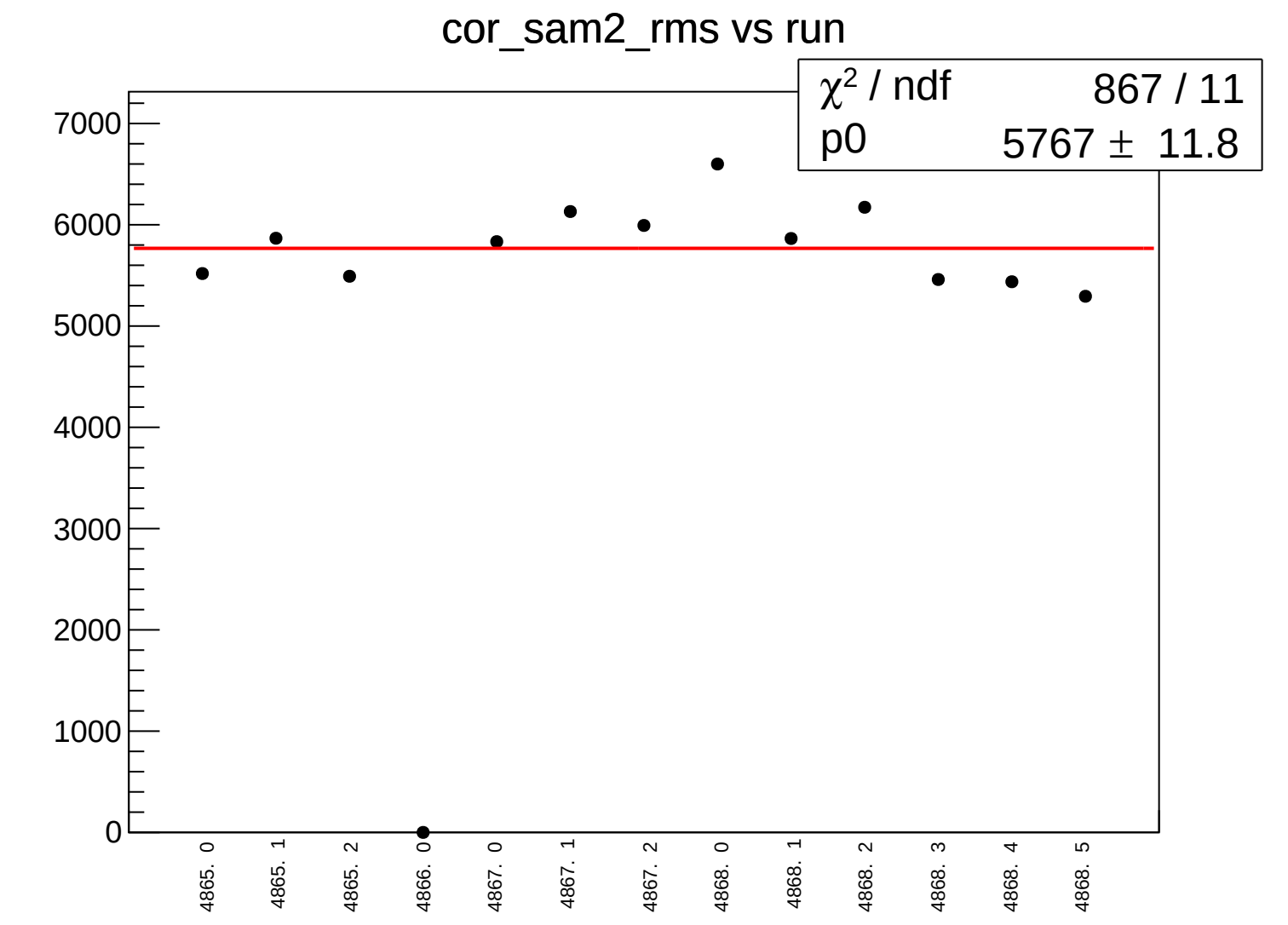

cor_sam1_mean vs run
χ² / ndf 4.925 / 11
p0 −599.4 ± 1317
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
−14000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

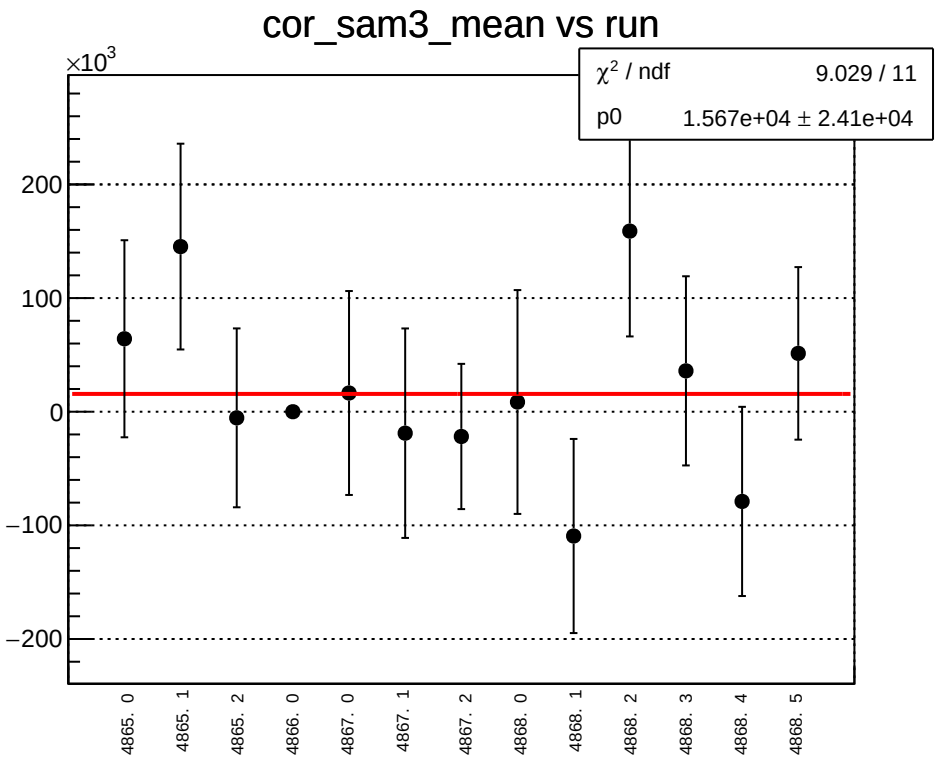

pull1D
Entries 13
Mean −0.02864
Std Dev 0.64
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

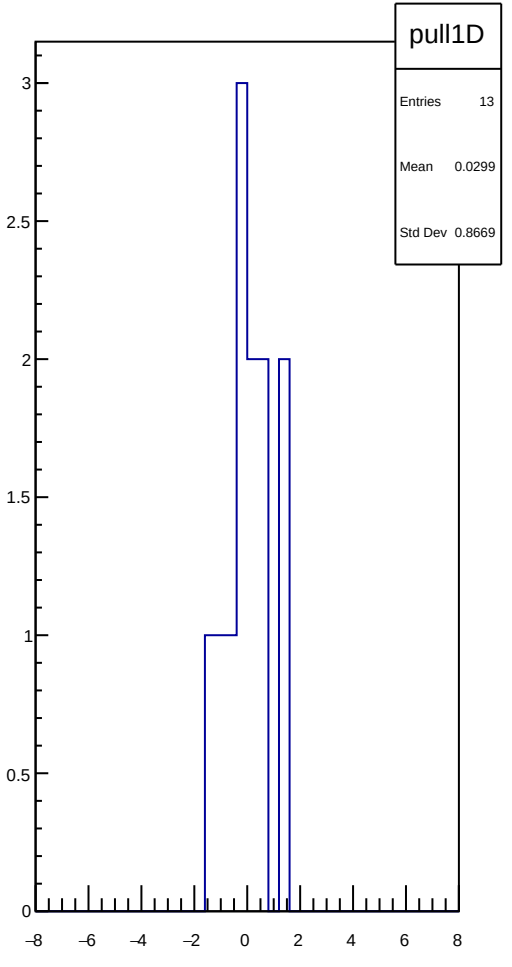

cor_sam1_rms vs run
χ² / ndf 305.2 / 11
p0 455.8 ± 0.9313
500
400
300
200
100
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

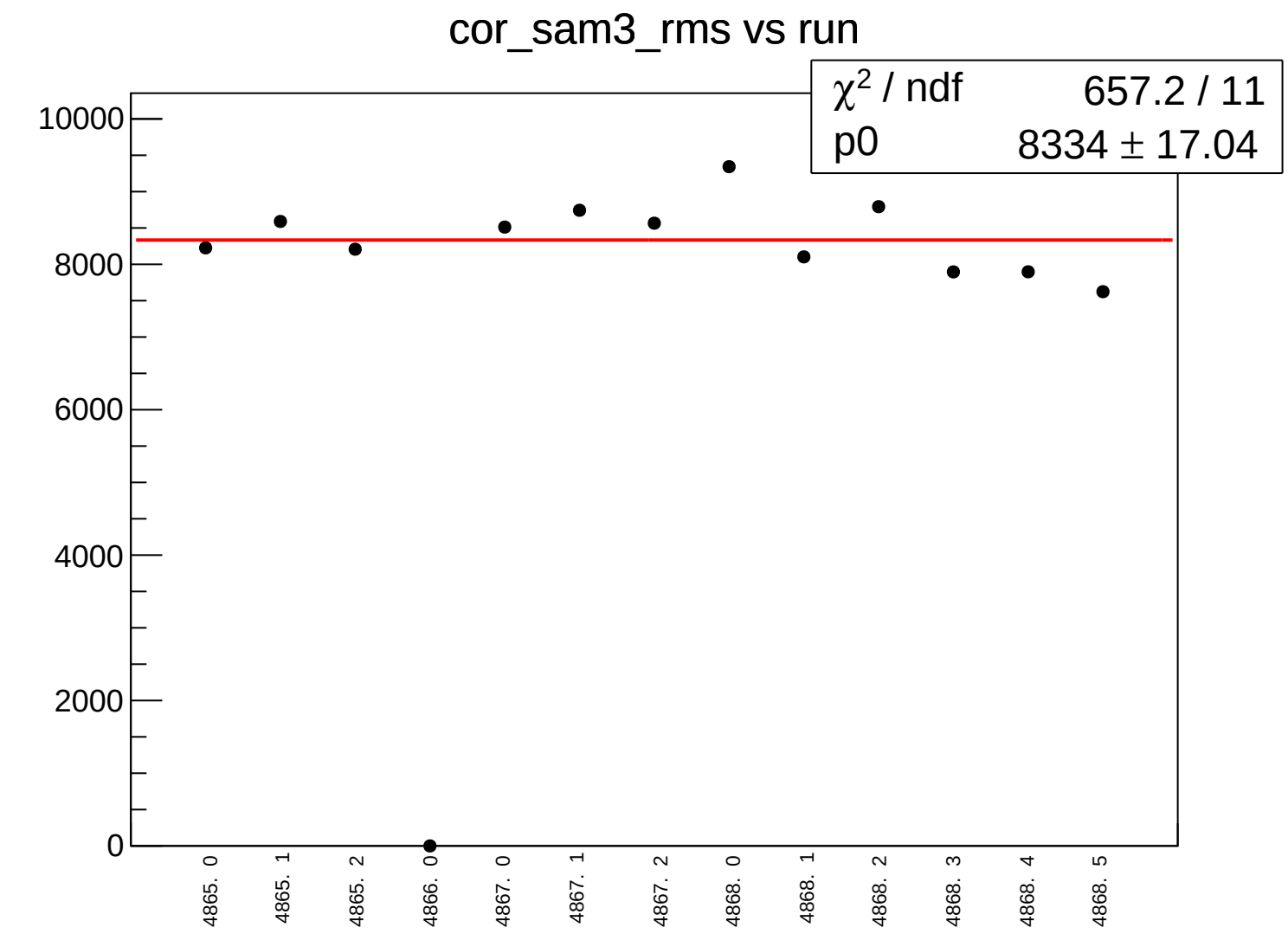

cor_sam2_mean vs run
×10^3
χ² / ndf 13.18 / 11
p0 1.508e+04 ± 1.668e+04
200
150
100
50
0
−50
−100
−150
−200
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

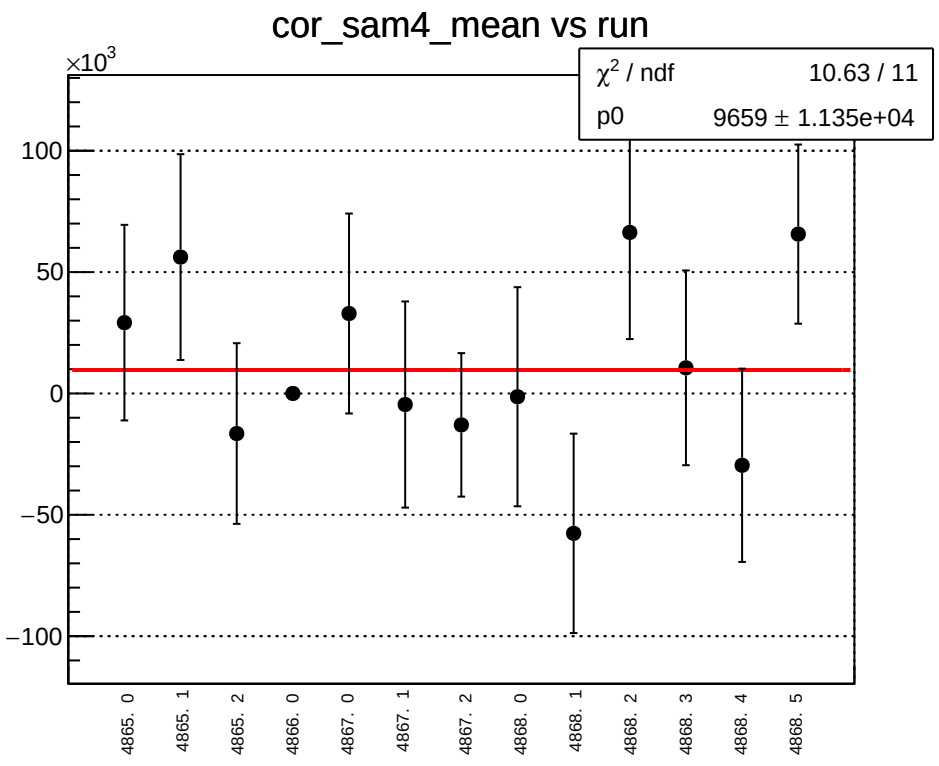

pull1D
Entries 13
Mean 0.007588
Std Dev 1.048
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

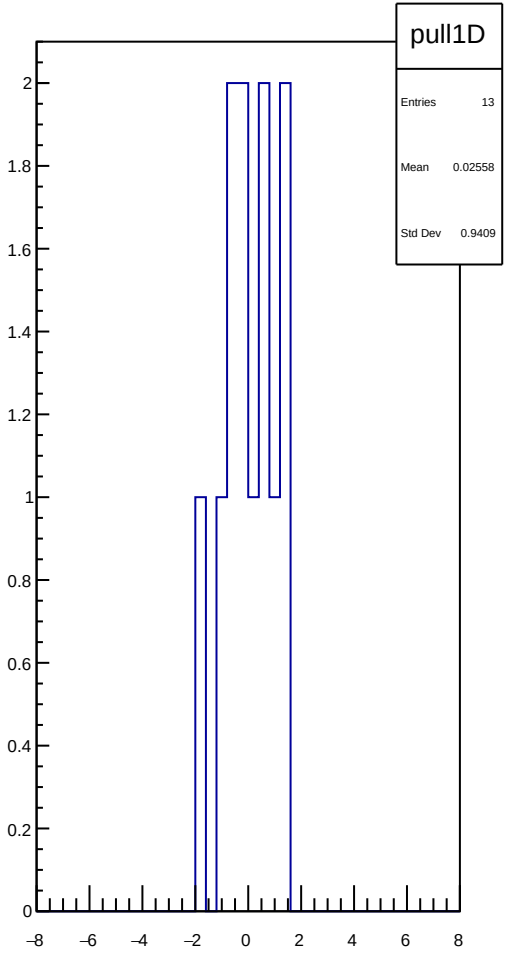

cor_sam2_rms vs run
χ² / ndf 867 / 11
p0 5767 ± 11.8
7000
6000
5000
4000
3000
2000
1000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

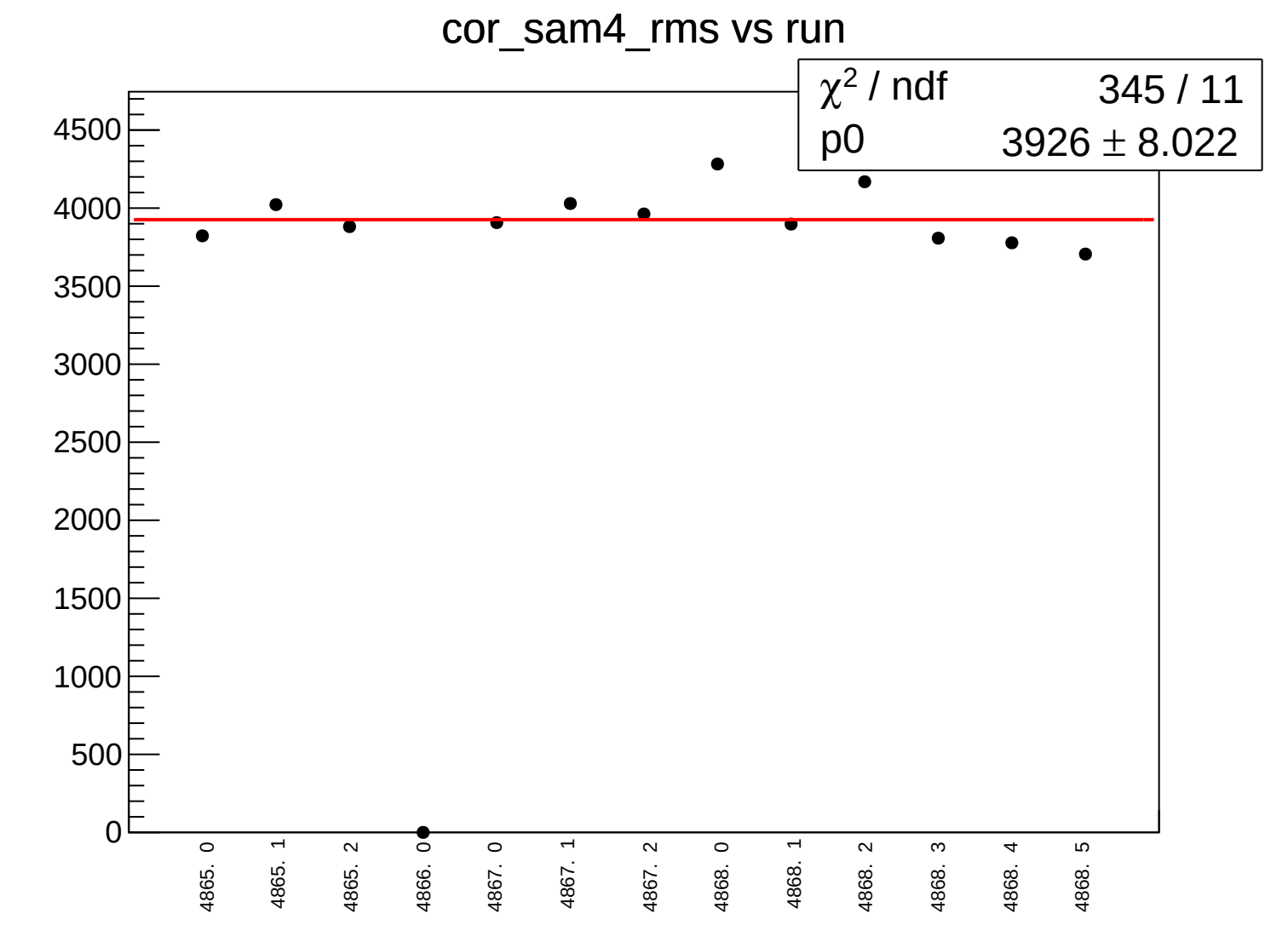

cor_sam3_mean vs run
×10^3
χ² / ndf 9.029 / 11
p0 1.567e+04 ± 2.41e+04
200
100
0
−100
−200
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

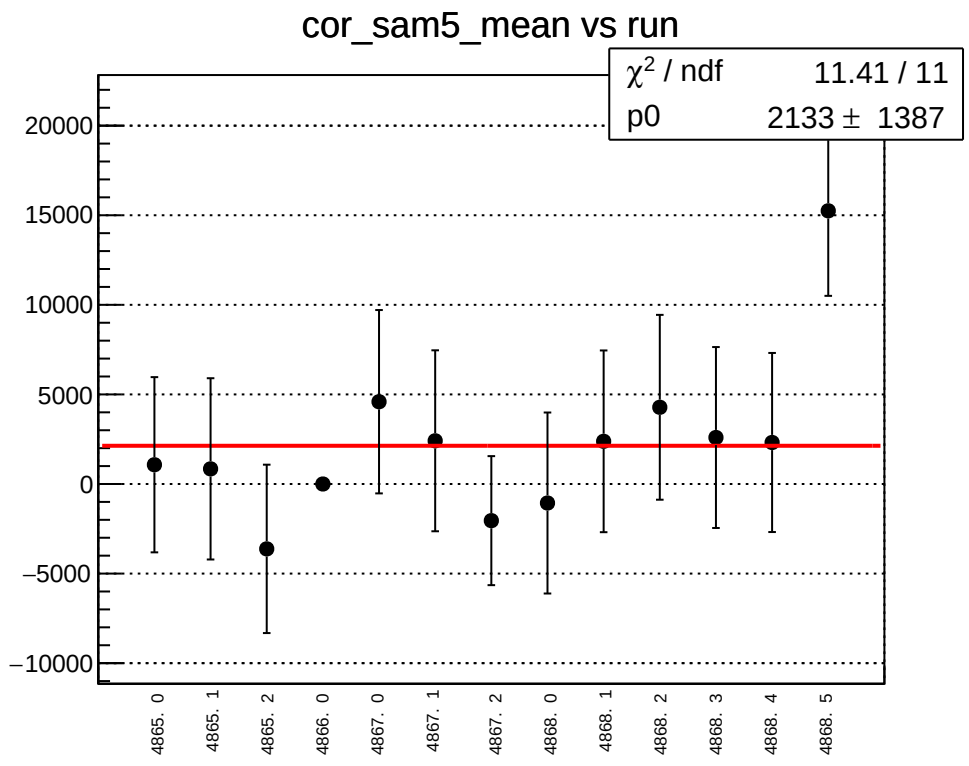

pull1D
Entries 13
Mean 0.0299
Std Dev 0.8669
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

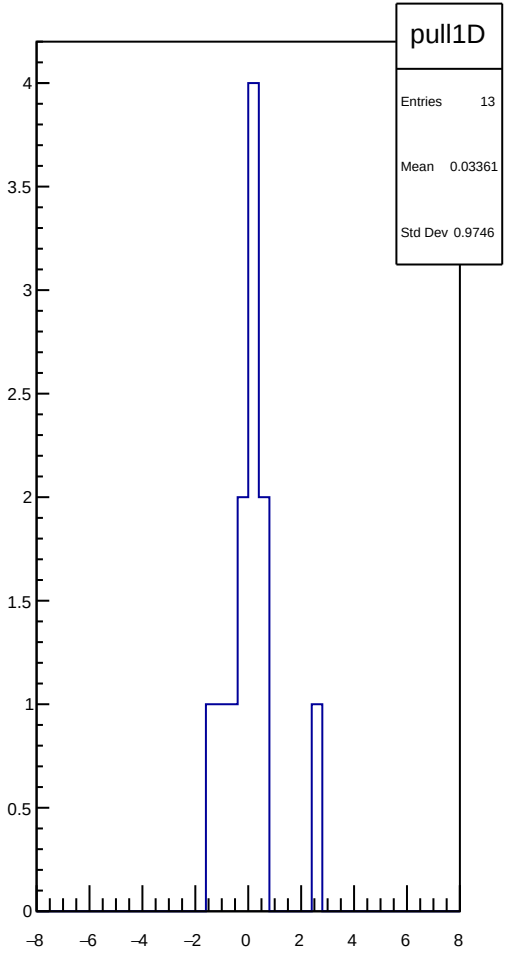

cor_sam3_rms vs run
χ² / ndf 657.2 / 11
p0 8334 ± 17.04
10000
8000
6000
4000
2000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

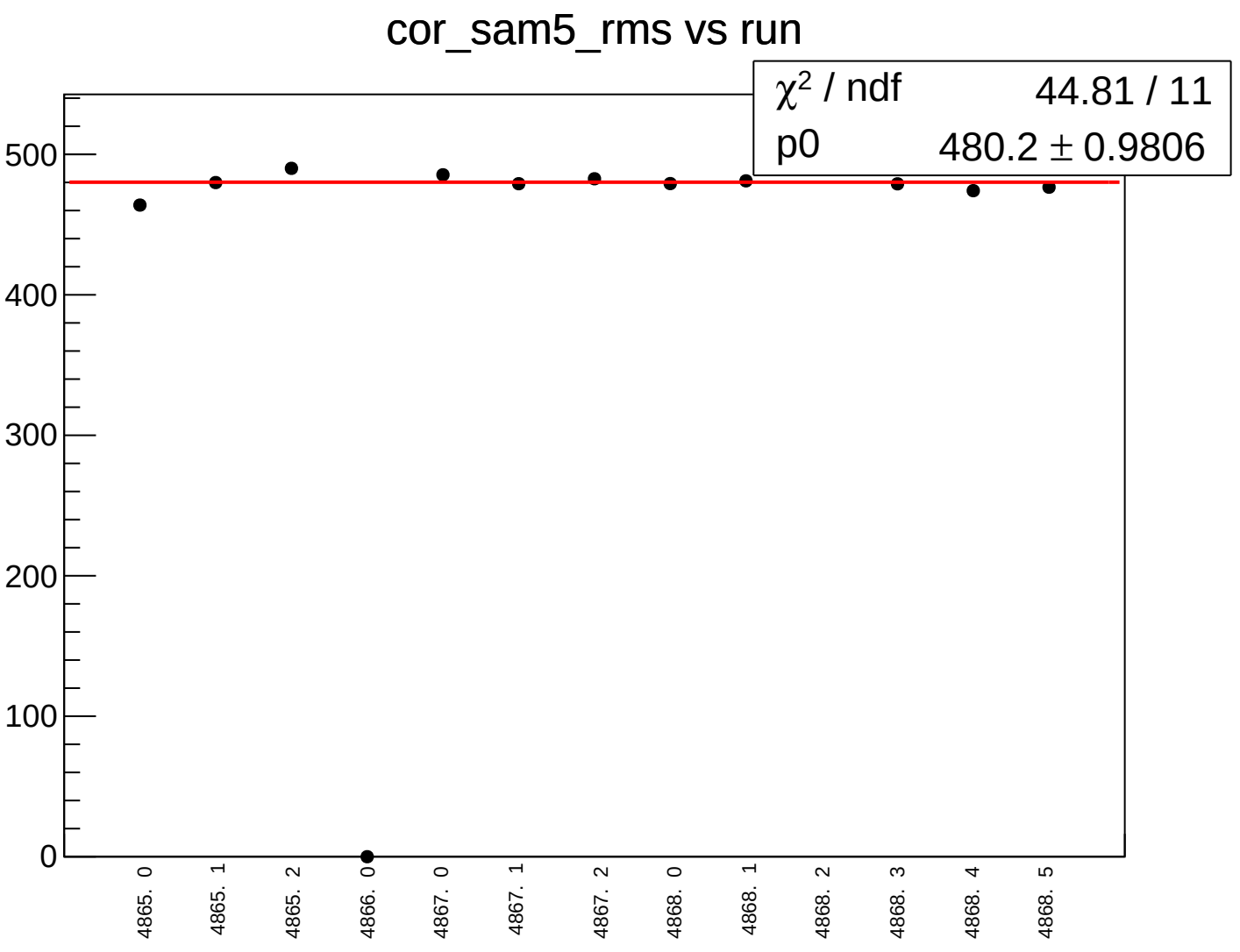

cor_sam4_mean vs run
×10^3
χ² / ndf 10.63 / 11
p0 9659 ± 1.135e+04
100
50
0
−50
−100
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

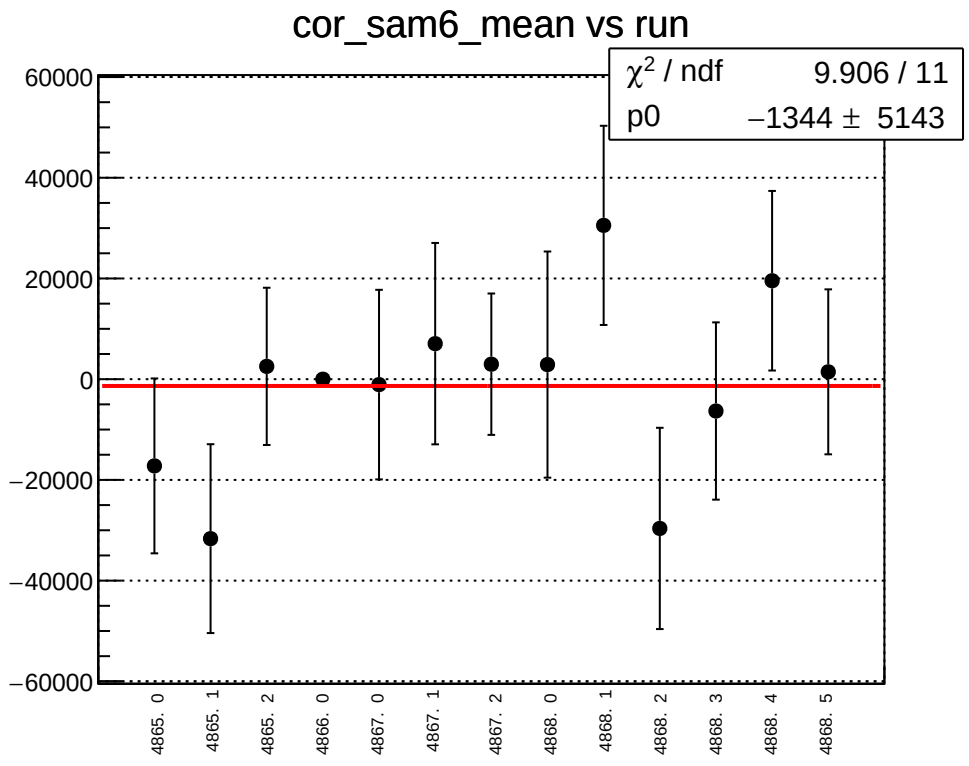

pull1D
Entries 13
Mean 0.02558
Std Dev 0.9409
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

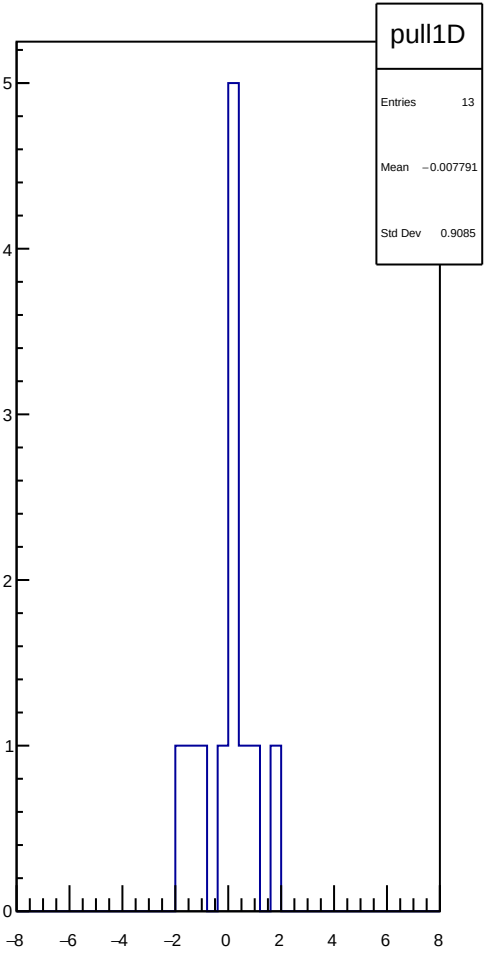

cor_sam4_rms vs run
χ² / ndf 345 / 11
p0 3926 ± 8.022
4500
4000
3500
3000
2500
2000
1500
1000
500
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

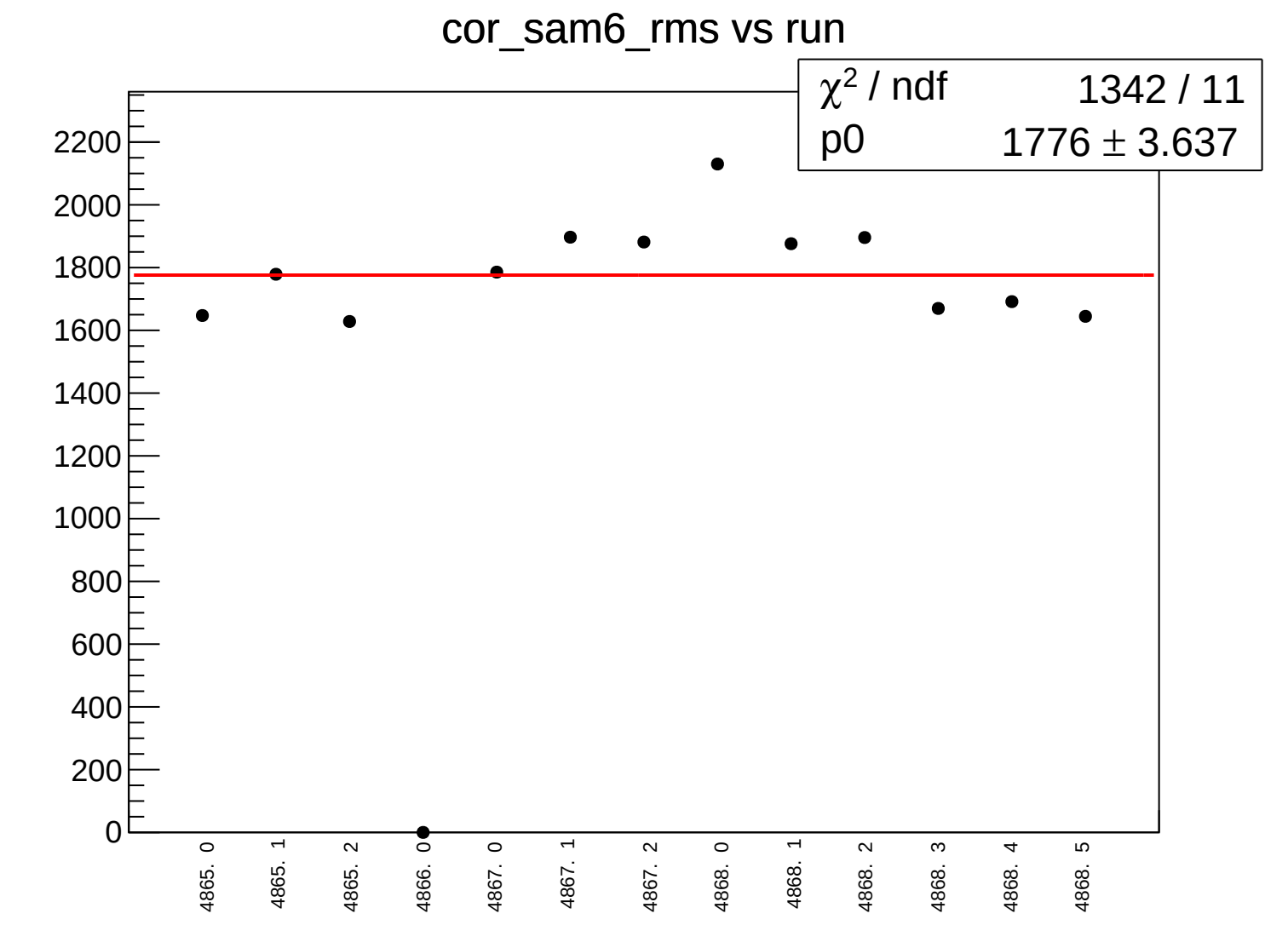

cor_sam5_mean vs run
χ² / ndf 11.41 / 11
p0 2133 ± 1387
20000
15000
10000
5000
0
−5000
−10000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

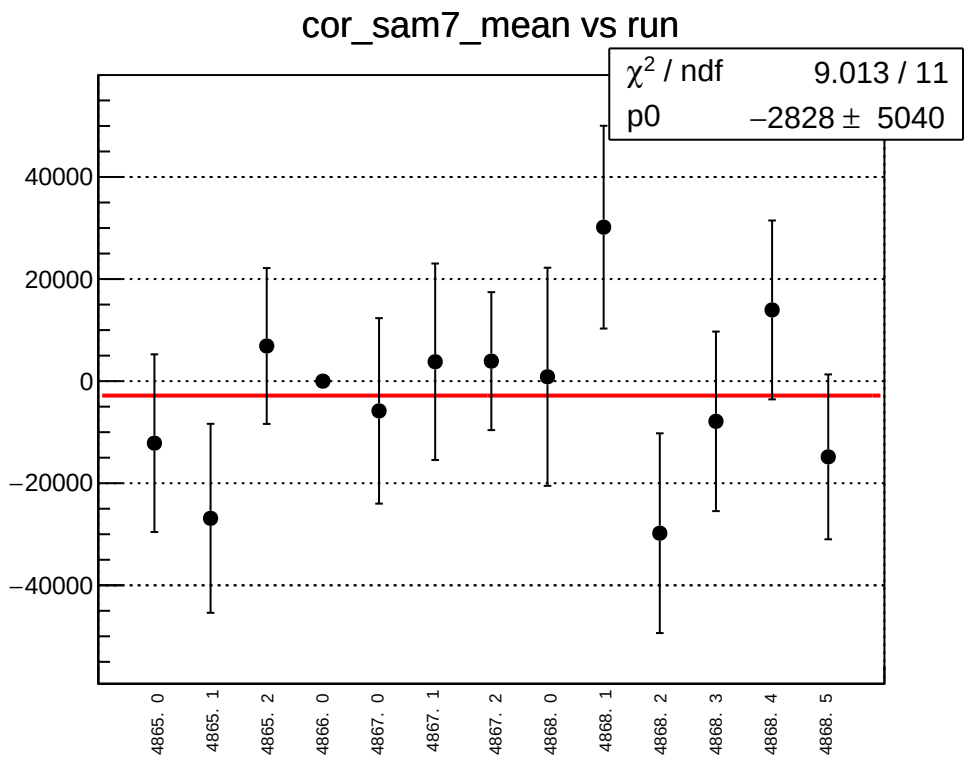

pull1D
Entries 13
Mean 0.03361
Std Dev 0.9746
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

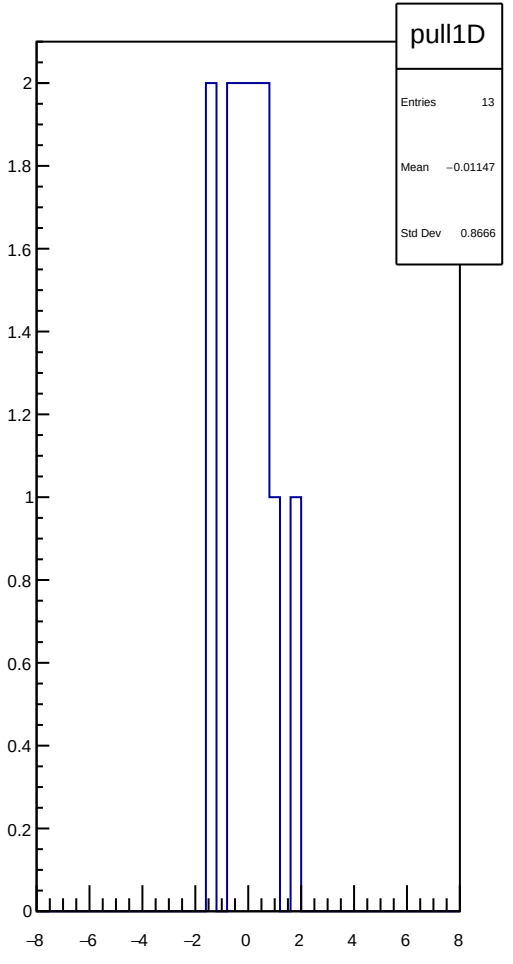

cor_sam5_rms vs run
χ² / ndf 44.81 / 11
p0 480.2 ± 0.9806
500
400
300
200
100
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

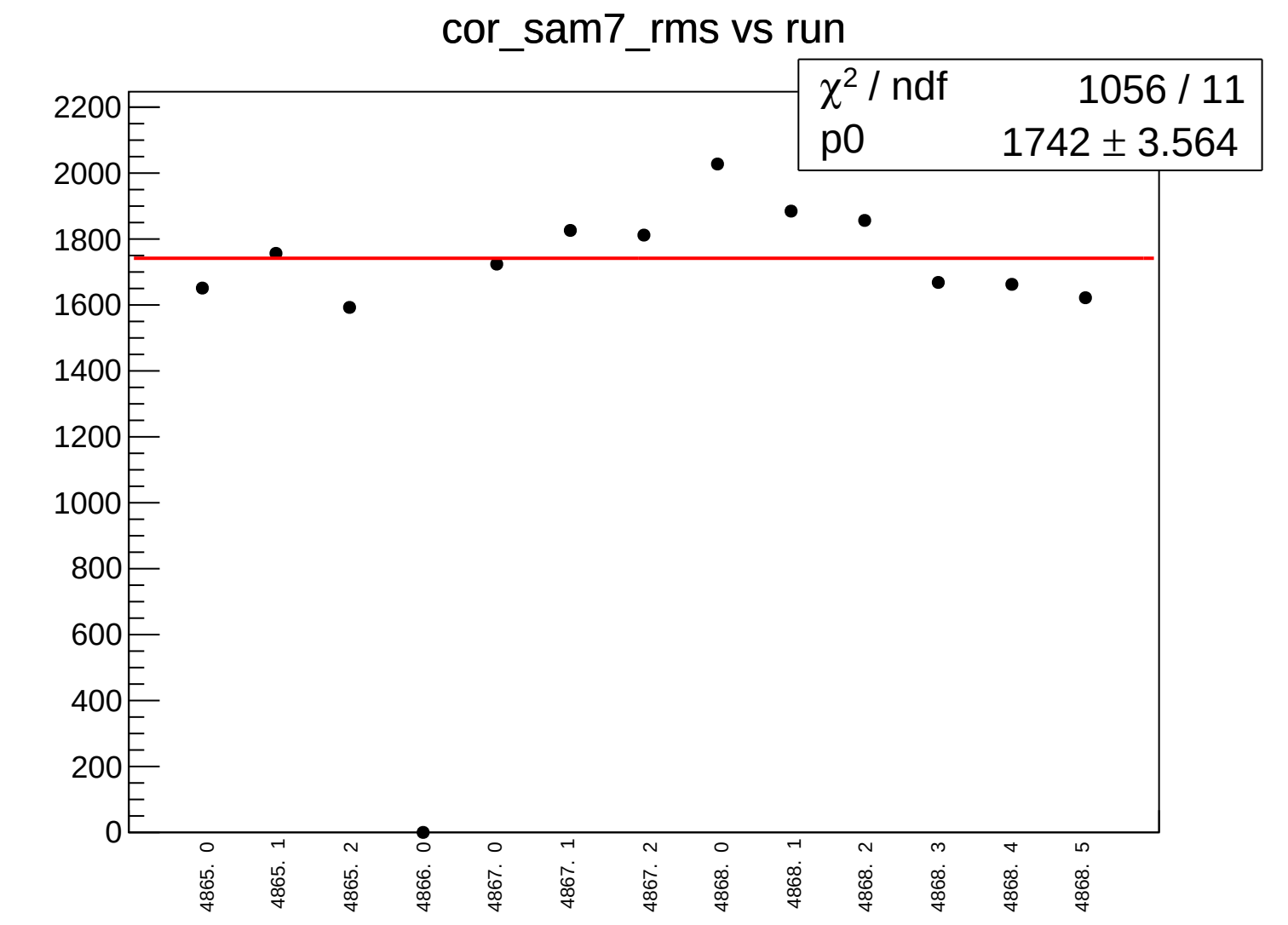

cor_sam6_mean vs run
χ² / ndf 9.906 / 11
p0 −1344 ± 5143
60000
40000
20000
0
−20000
−40000
−60000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

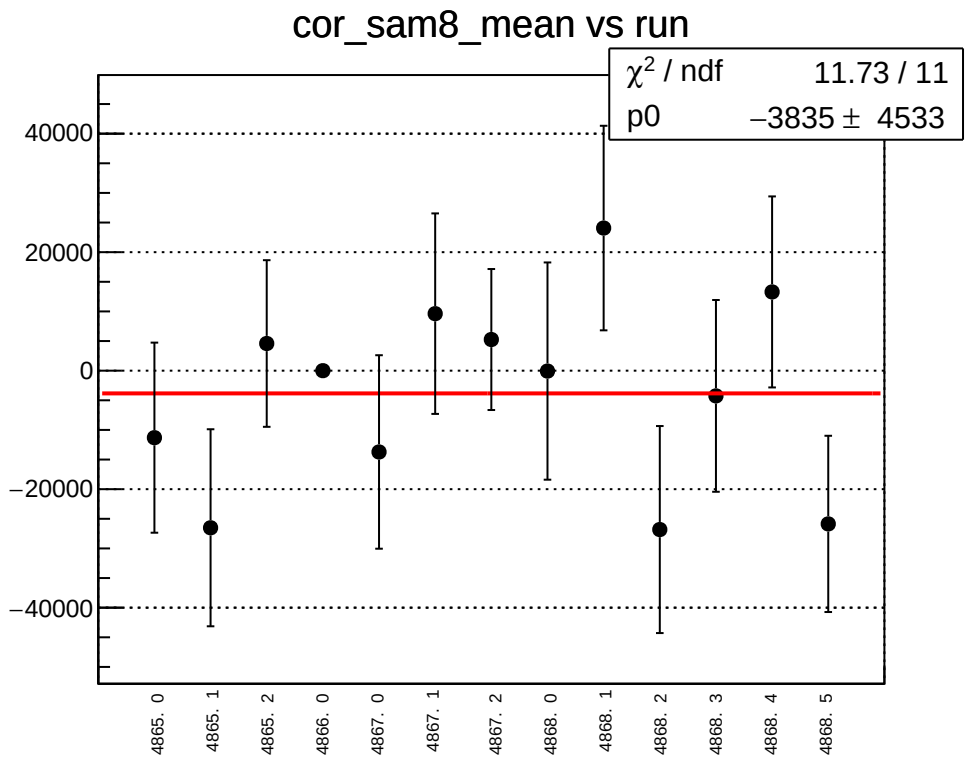

pull1D
Entries 13
Mean −0.007791
Std Dev 0.9085
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

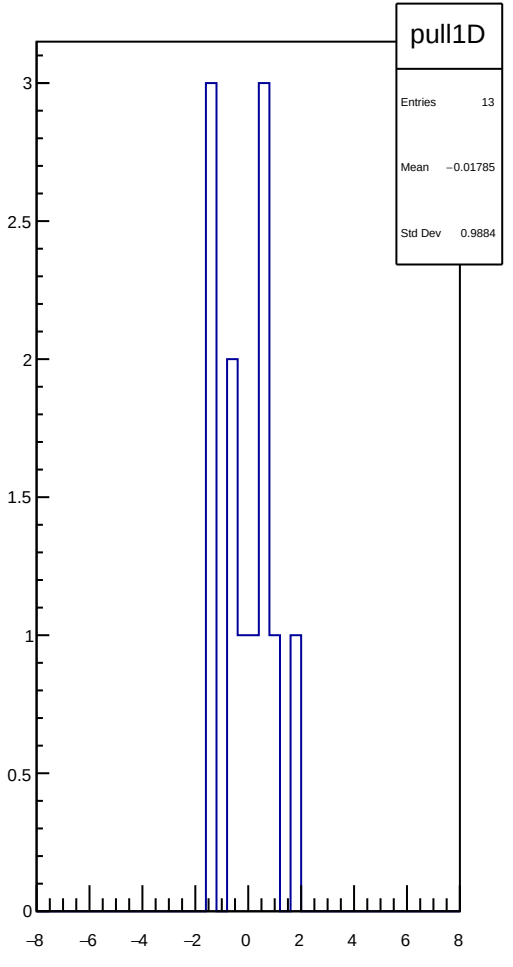

cor_sam6_rms vs run
χ² / ndf 1342 / 11
p0 1776 ± 3.637
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

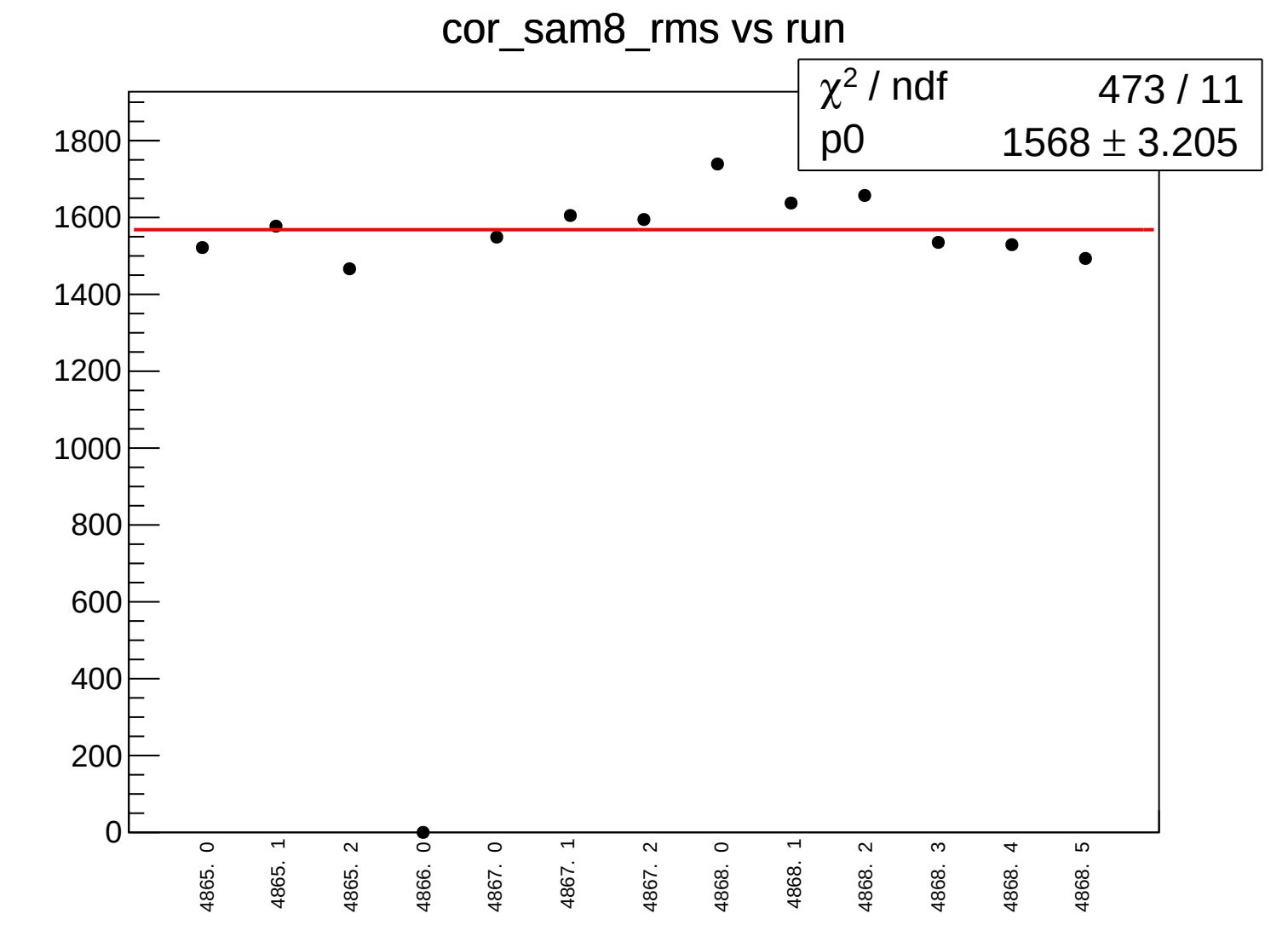

cor_sam7_mean vs run
χ² / ndf 9.013 / 11
p0 −2828 ± 5040
40000
20000
0
−20000
−40000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

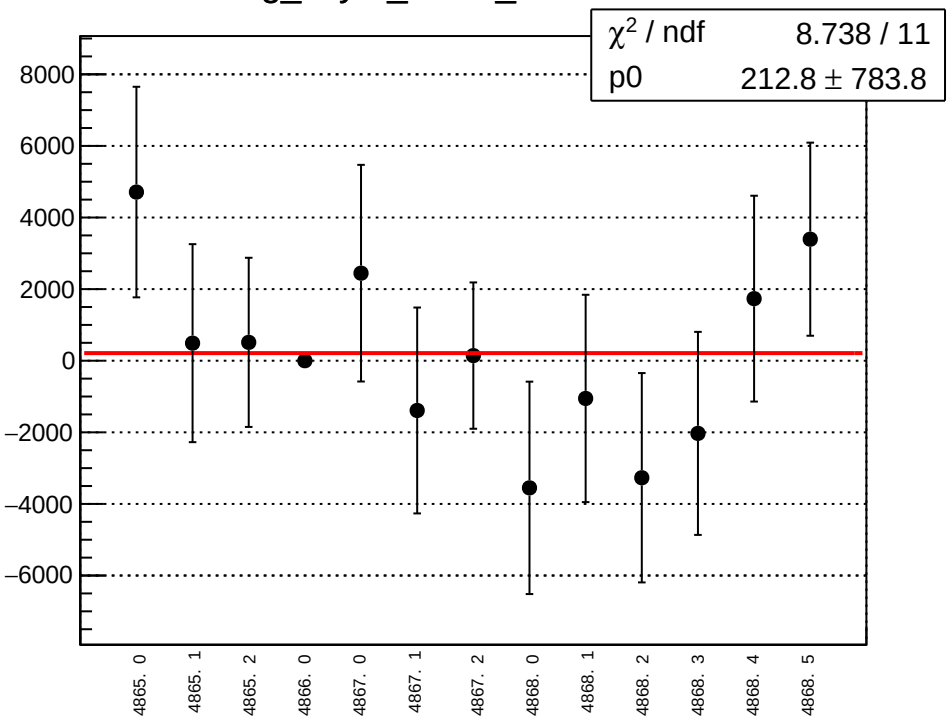

pull1D
Entries 13
Mean −0.01147
Std Dev 0.8666
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

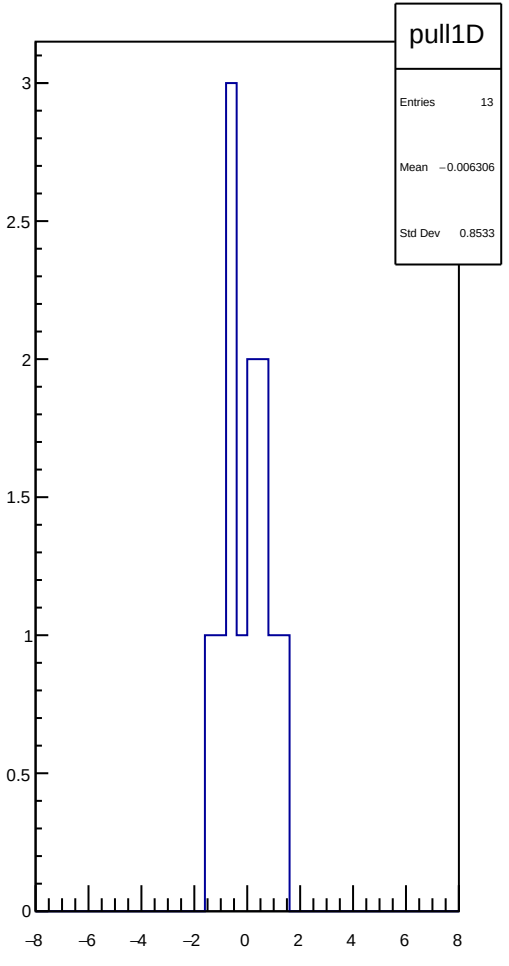

cor_sam7_rms vs run
χ² / ndf 1056 / 11
p0 1742 ± 3.564
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

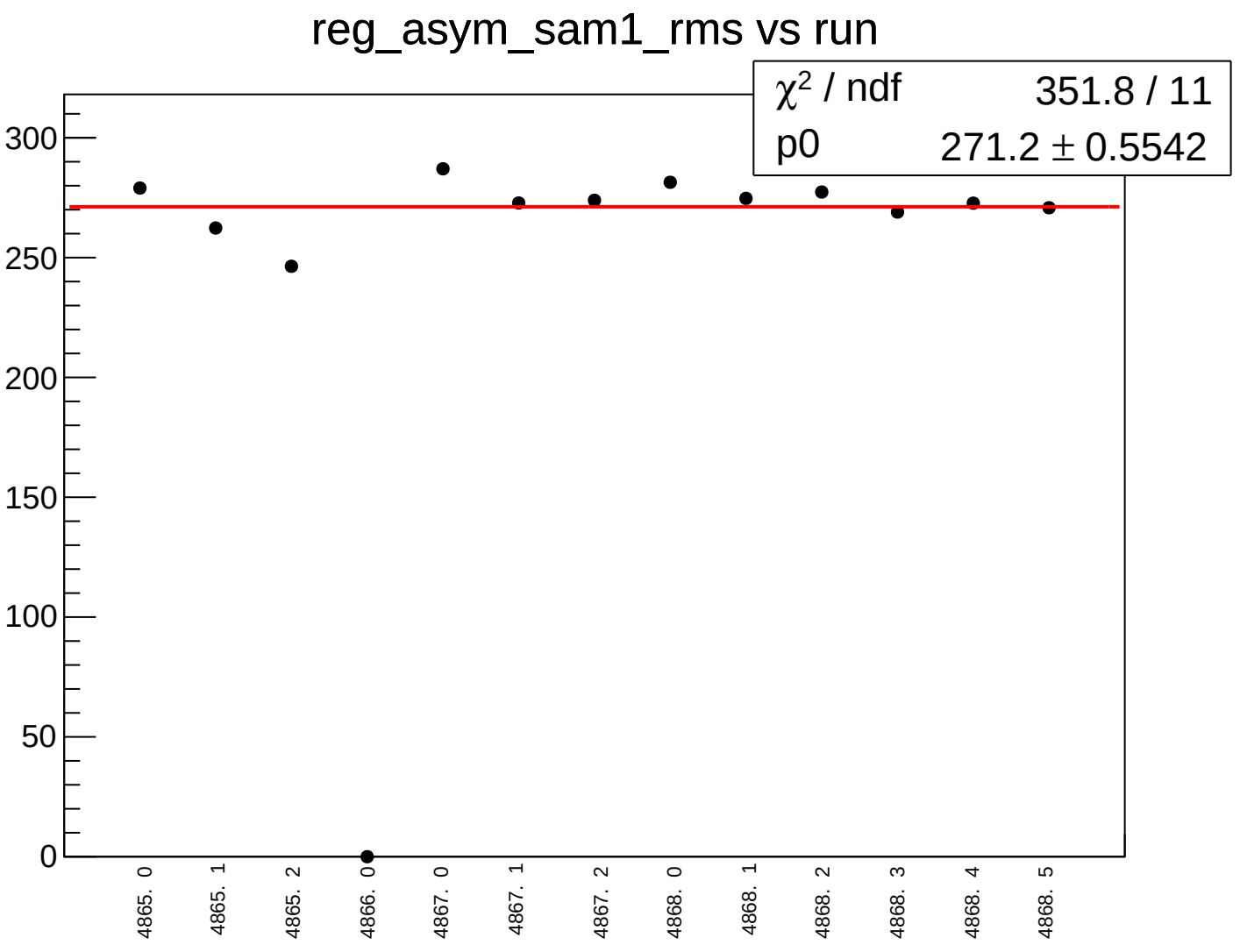

cor_sam8_mean vs run
χ² / ndf 11.73 / 11
p0 −3835 ± 4533
40000
20000
0
−20000
−40000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

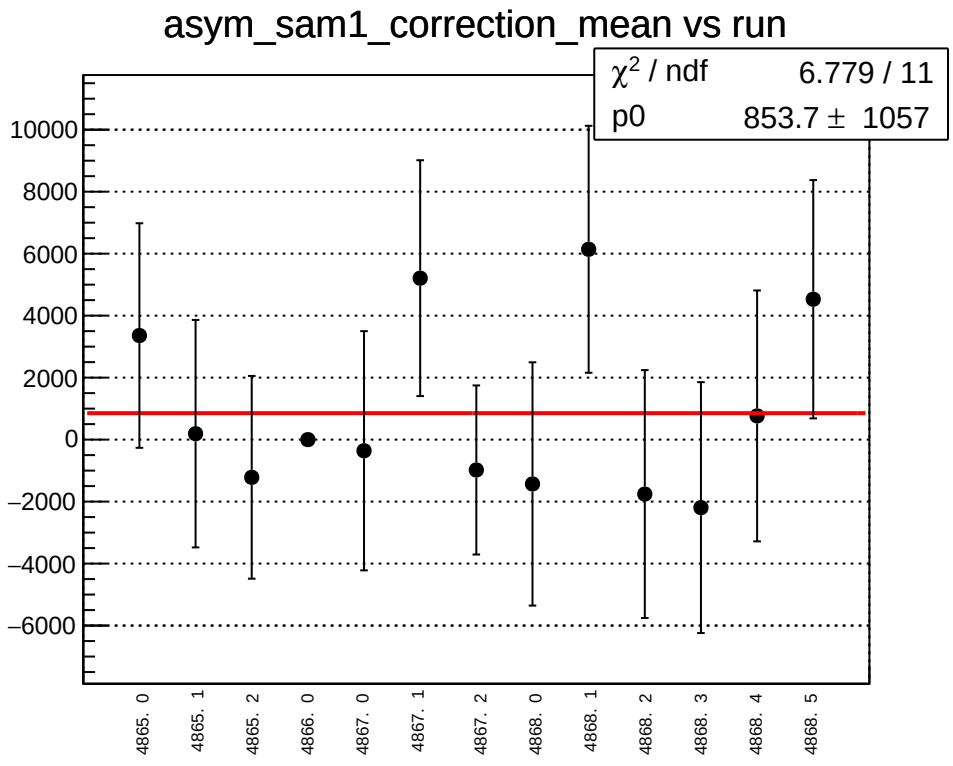

pull1D
Entries 13
Mean −0.01785
Std Dev 0.9884
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


cor_sam8_rms vs run
χ² / ndf 473 / 11
p0 1568 ± 3.205
1800
1600
1400
1200
1000
800
600
400
200
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


reg_asym_sam1_mean vs run
χ² / ndf 8.738 / 11
p0 212.8 ± 783.8
8000
6000
4000
2000
0
−2000
−4000
−6000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.006306
Std Dev 0.8533
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam1_rms vs run
χ² / ndf 351.8 / 11
p0 271.2 ± 0.5542
300
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_sam1_correction_mean vs run
χ² / ndf 6.779 / 11
p0 853.7 ± 1057
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
4865. 0
4865. 1
4865. 2
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4867. 1
4867. 2
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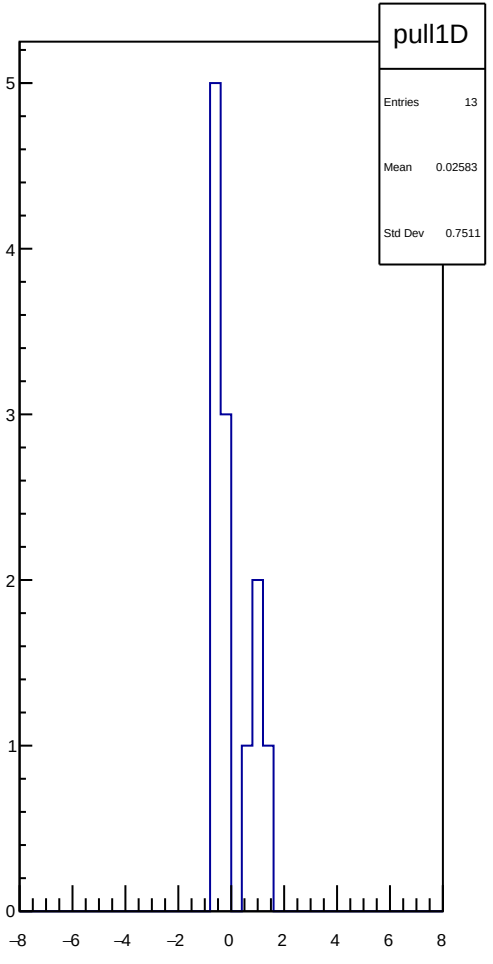
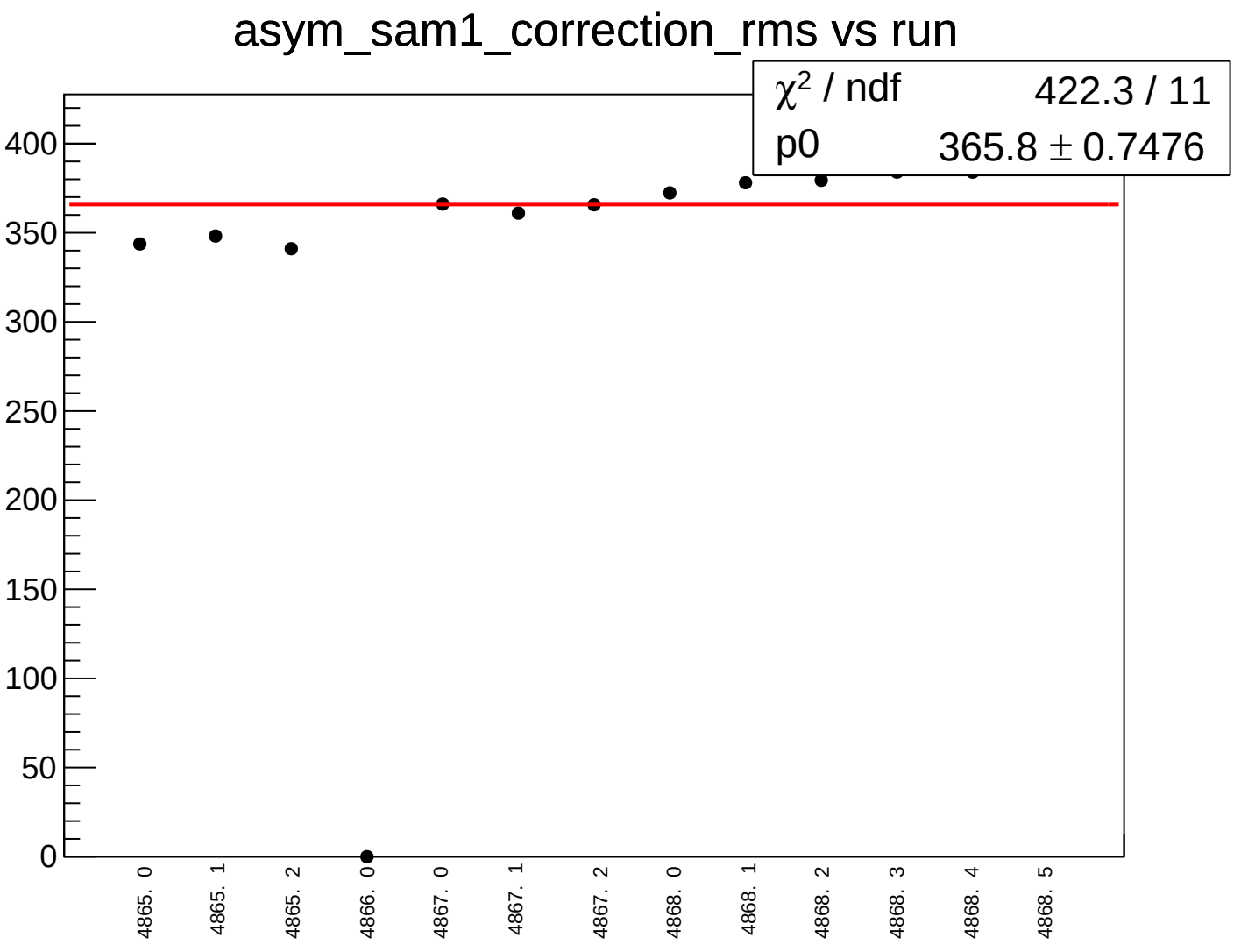
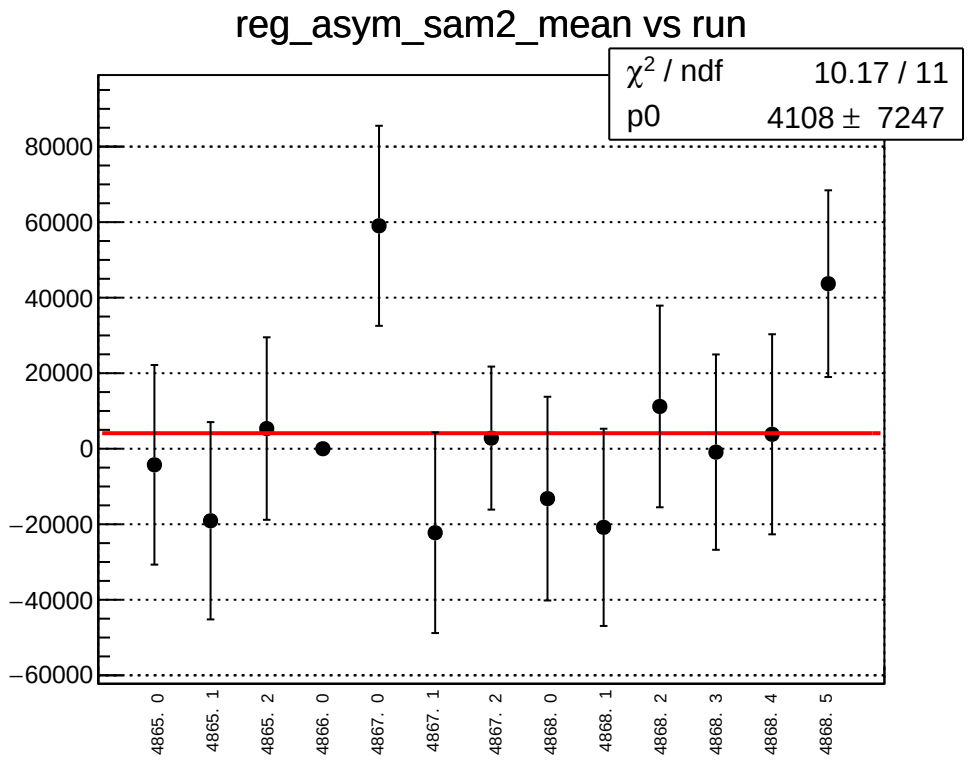
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.02583
Std Dev 0.7511
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam1_correction_rms vs run
χ² / ndf 422.3 / 11
p0 365.8 ± 0.7476
400
350
300
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


reg_asym_sam2_mean vs run
χ² / ndf 10.17 / 11
p0 4108 ± 7247
80000
60000
40000
20000
0
−20000
−40000
−60000
4865. 0
4865. 1
4865. 2
4866. 0
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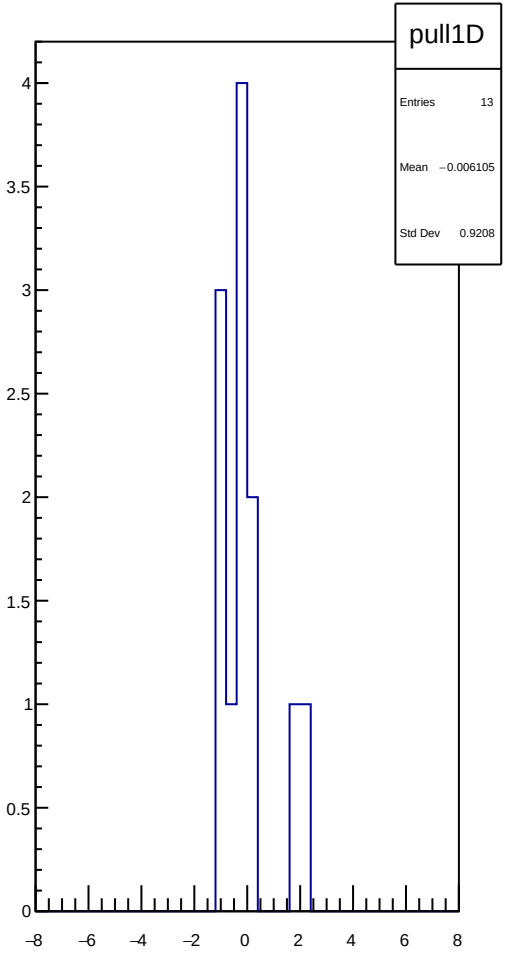
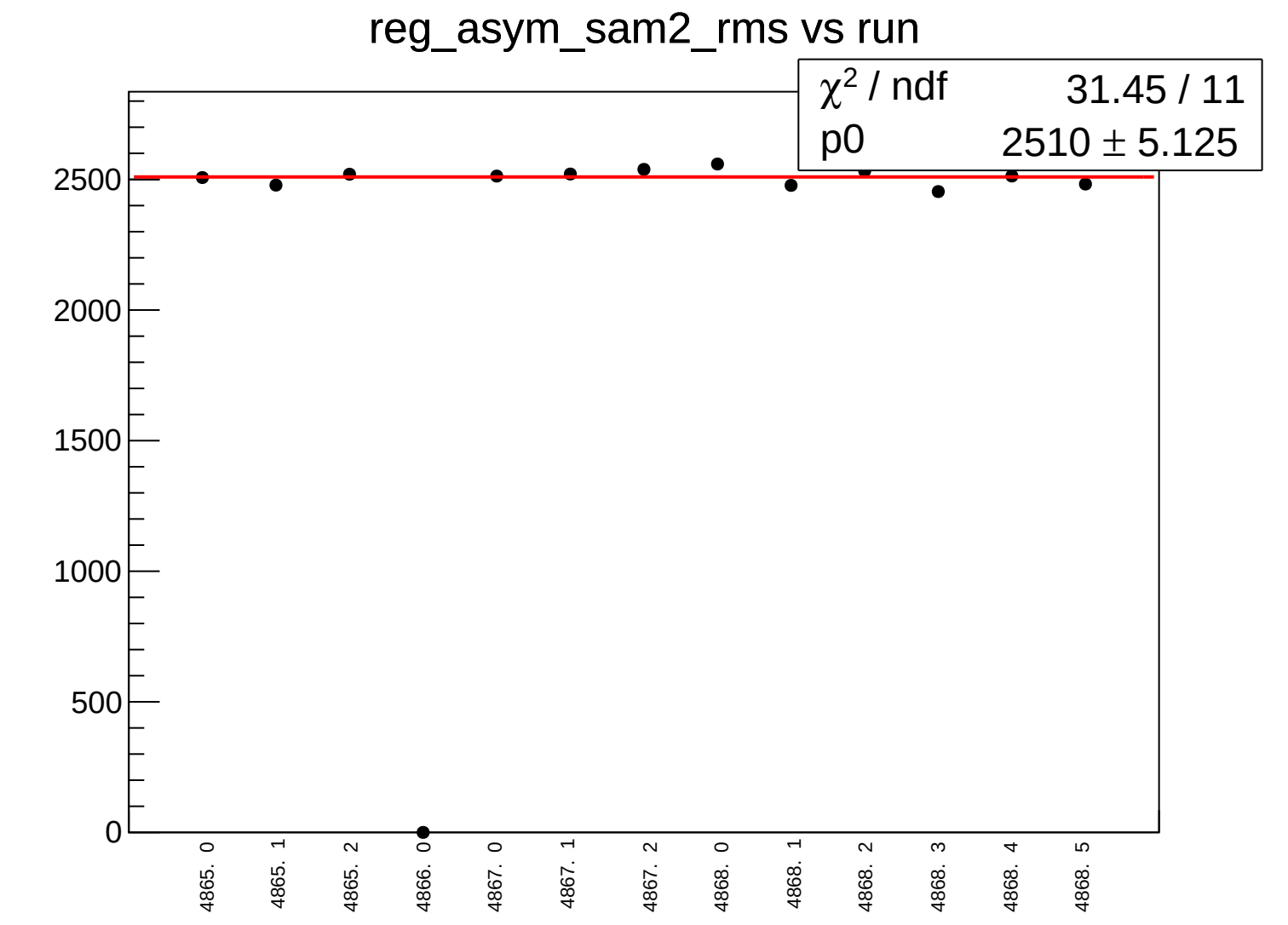
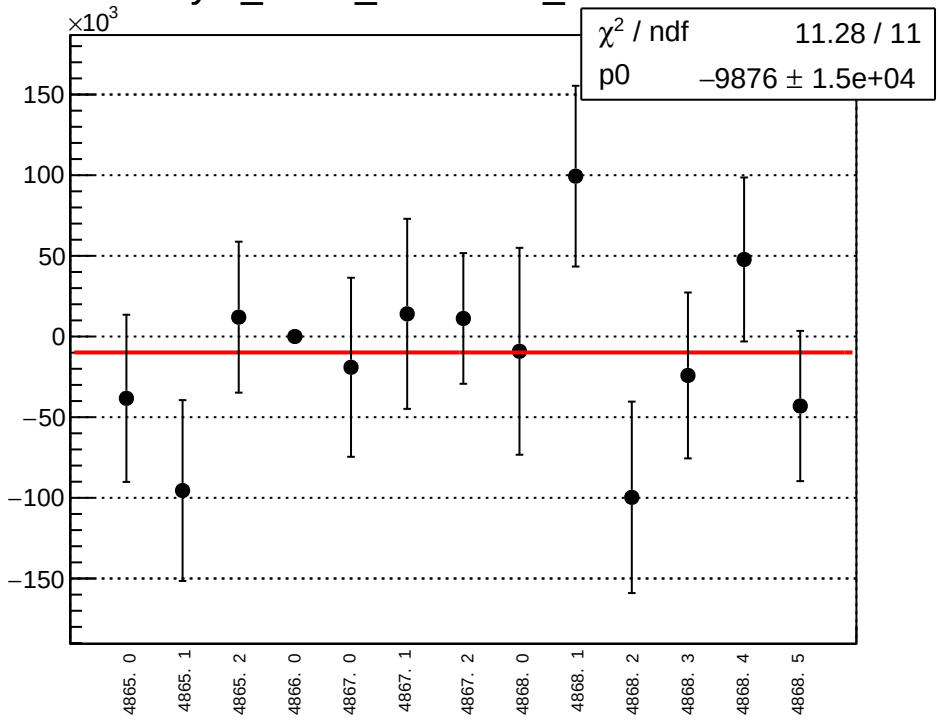
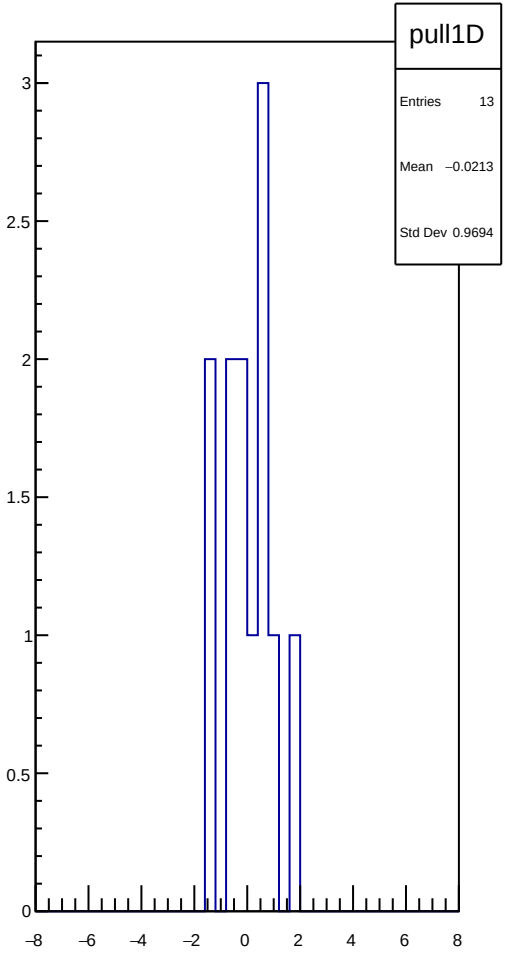
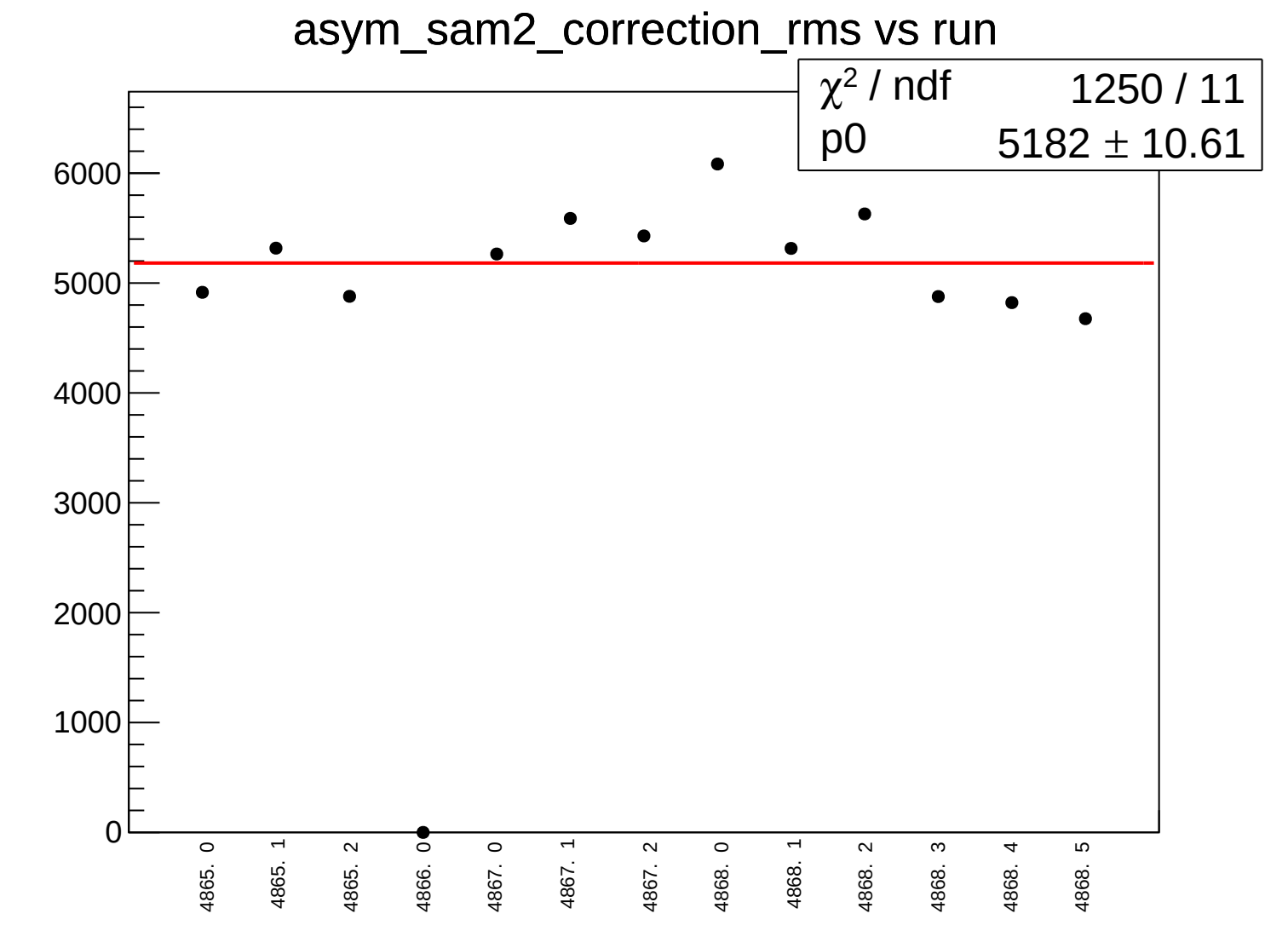
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

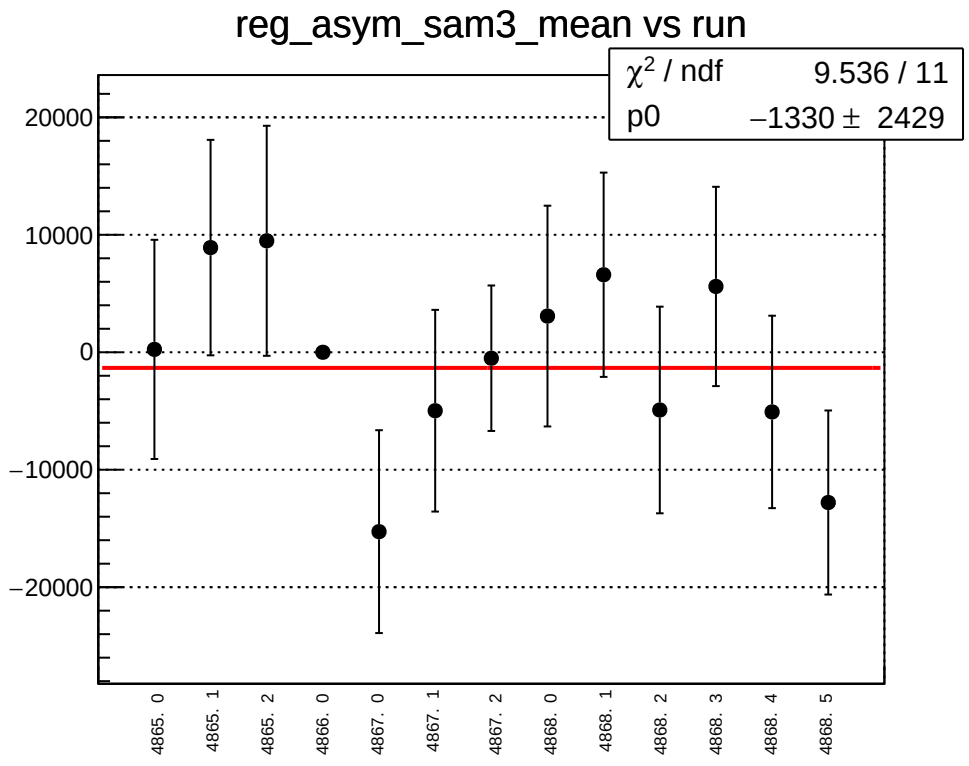

pull1D
Entries 13
Mean −0.006105
Std Dev 0.9208
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

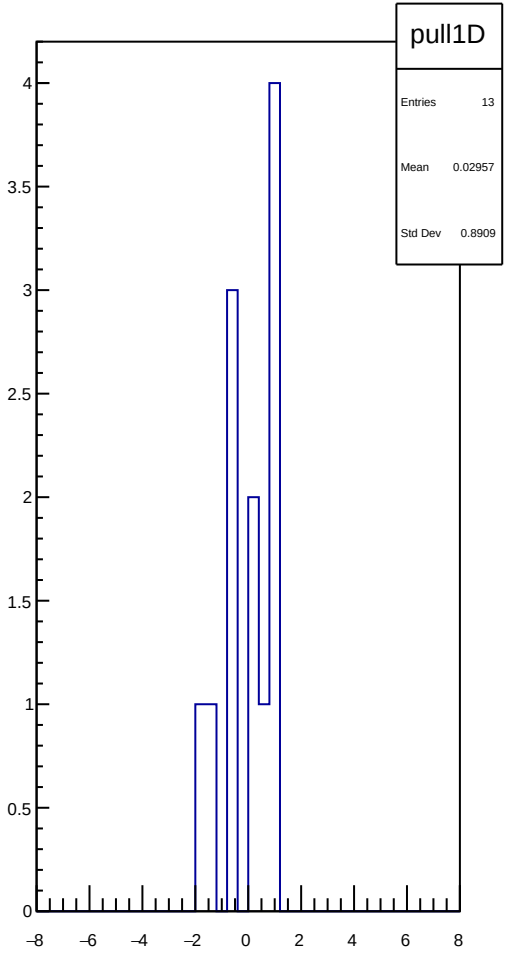

reg_asym_sam2_rms vs run
χ² / ndf 31.45 / 11
p0 2510 ± 5.125
2500
2000
1500
1000
500
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

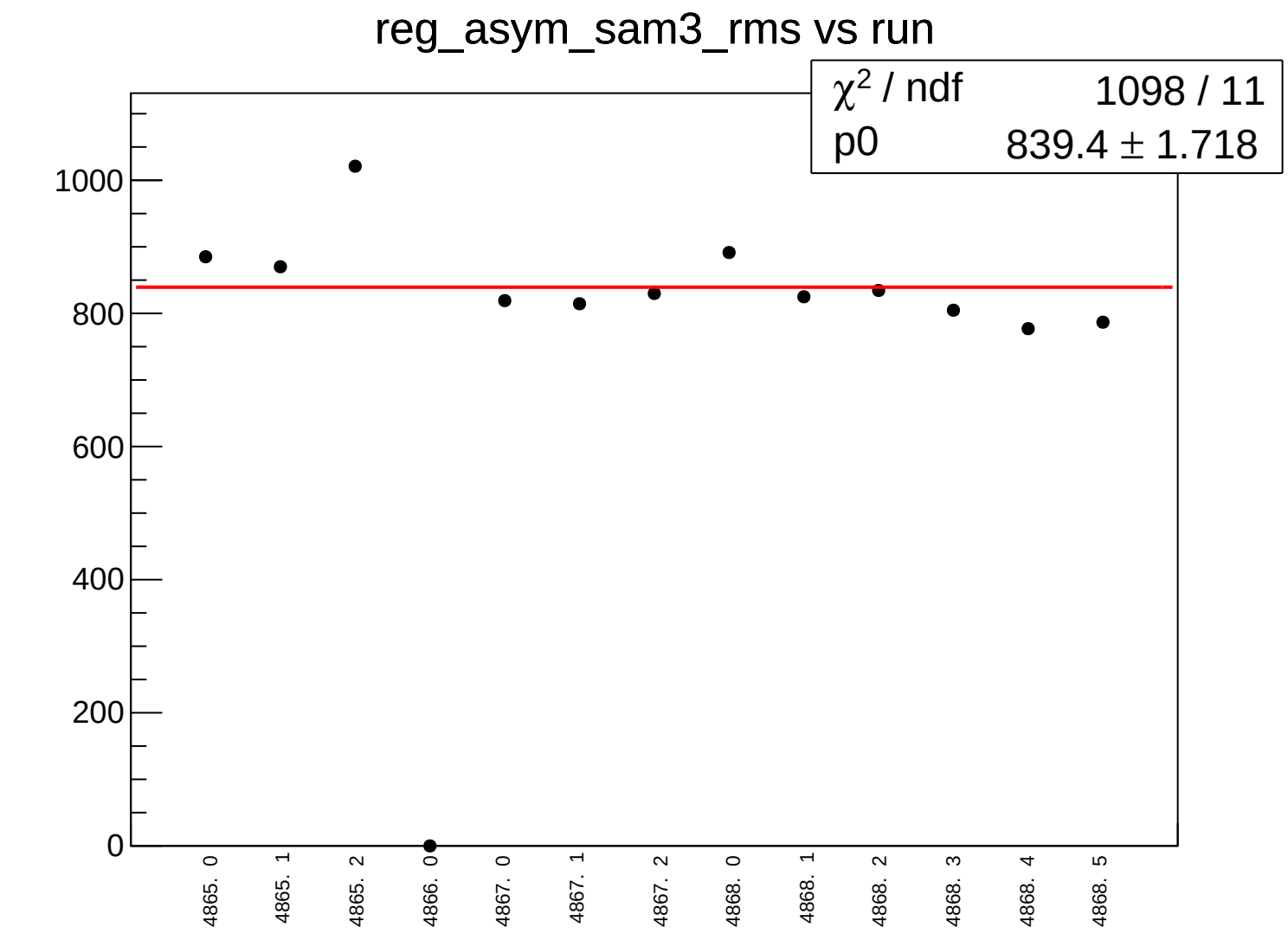

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 11.28 / 11
p0 −9876 ± 1.5e+04
150
100
50
0
−50
−100
−150
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

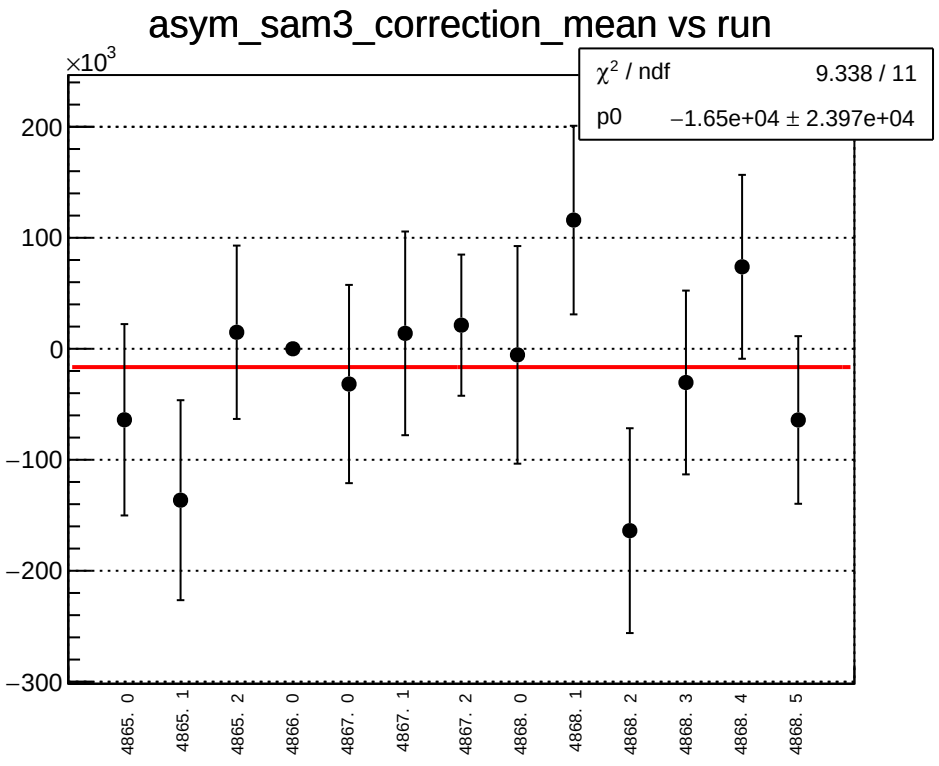

pull1D
Entries 13
Mean −0.0213
Std Dev 0.9694
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

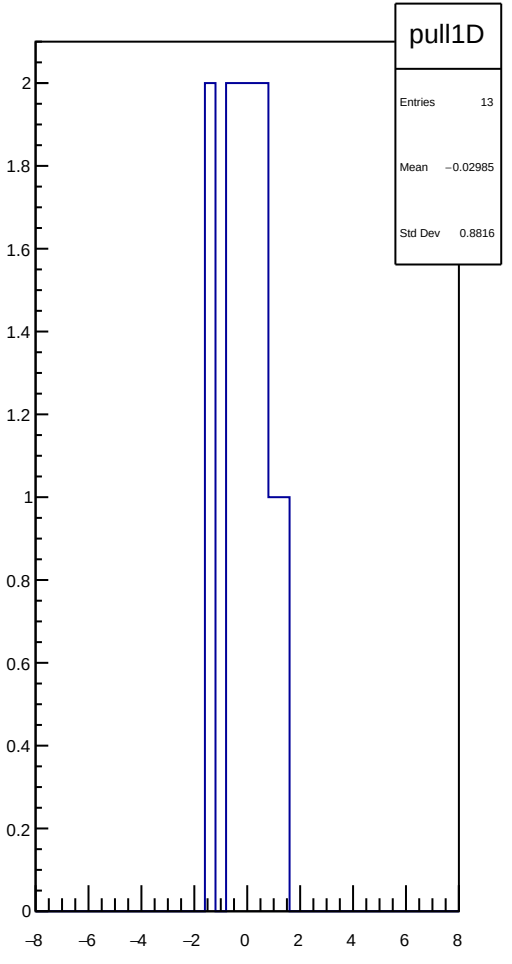

asym_sam2_correction_rms vs run
χ² / ndf 1250 / 11
p0 5182 ± 10.61
6000
5000
4000
3000
2000
1000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

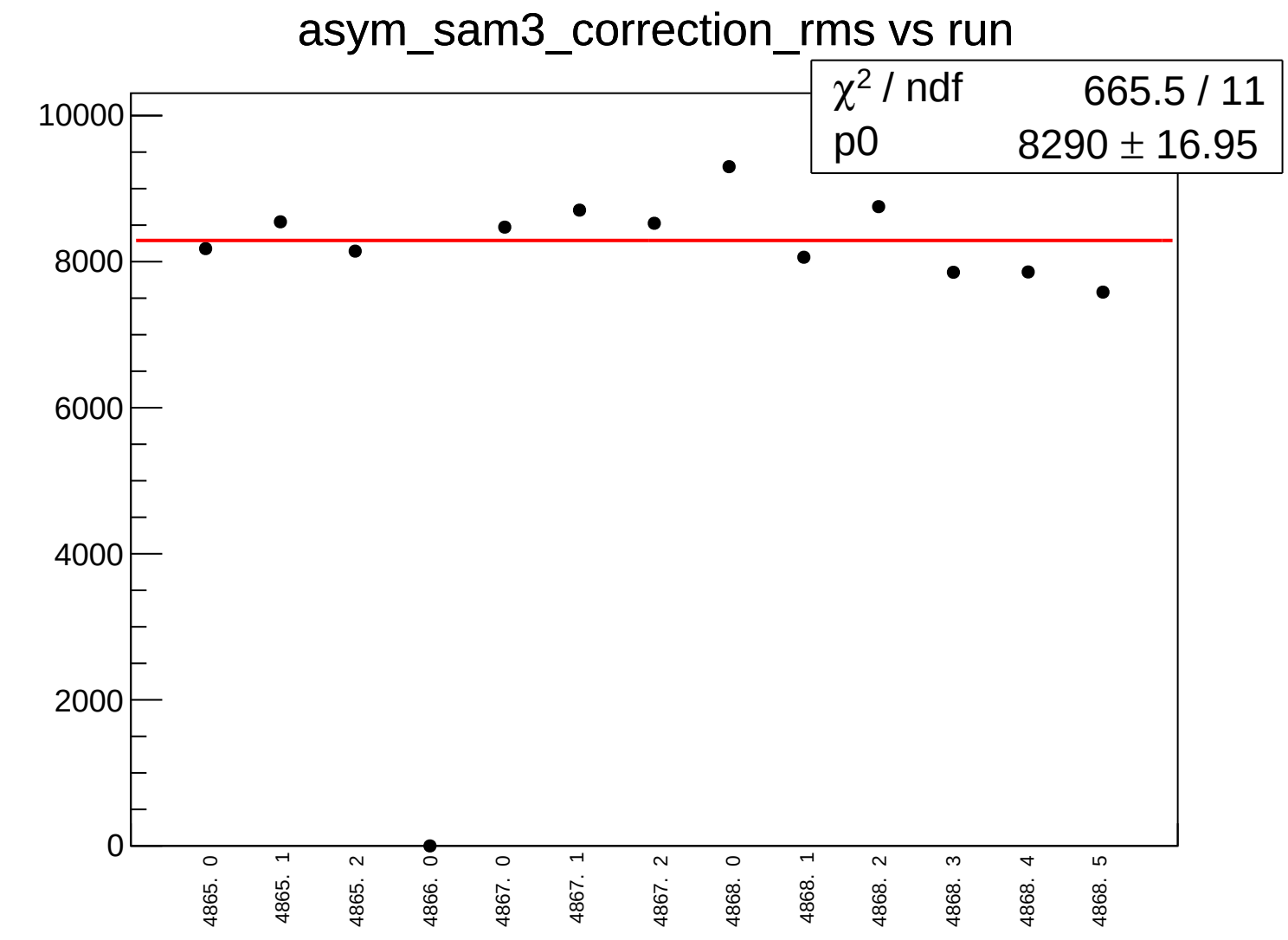

reg_asym_sam3_mean vs run
χ² / ndf 9.536 / 11
p0 −1330 ± 2429
20000
10000
0
−10000
−20000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

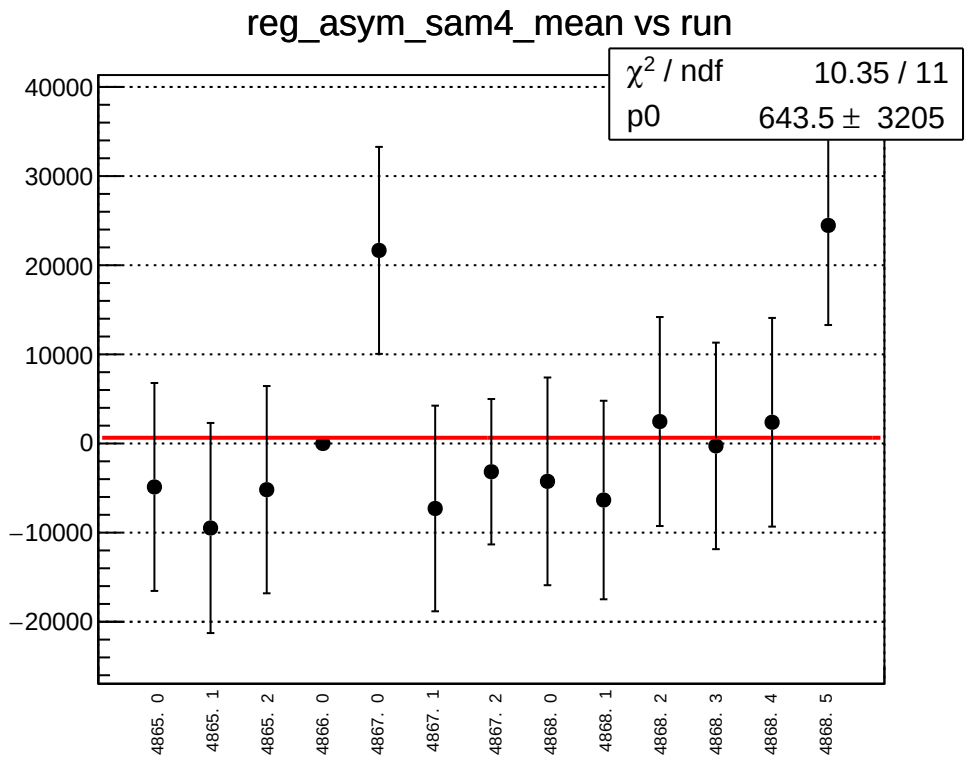

pull1D
Entries 13
Mean 0.02957
Std Dev 0.8909
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

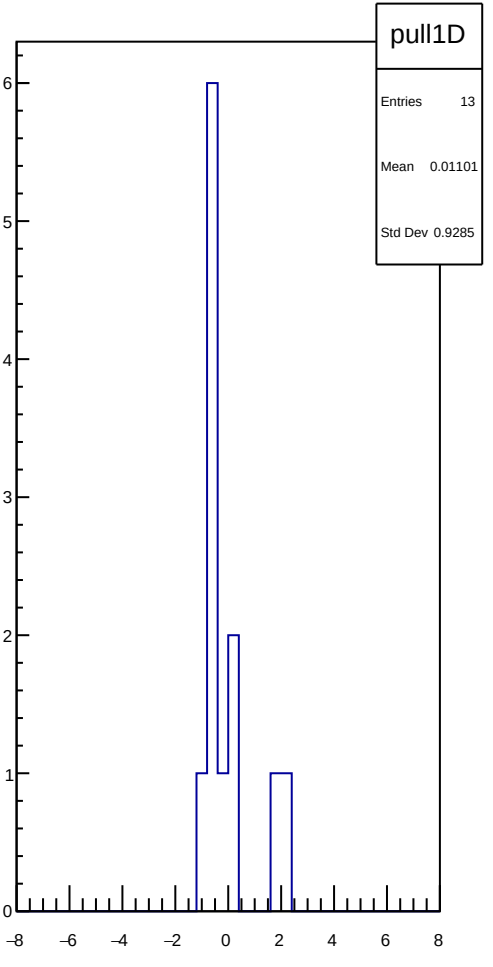

reg_asym_sam3_rms vs run
χ² / ndf 1098 / 11
p0 839.4 ± 1.718
1000
800
600
400
200
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

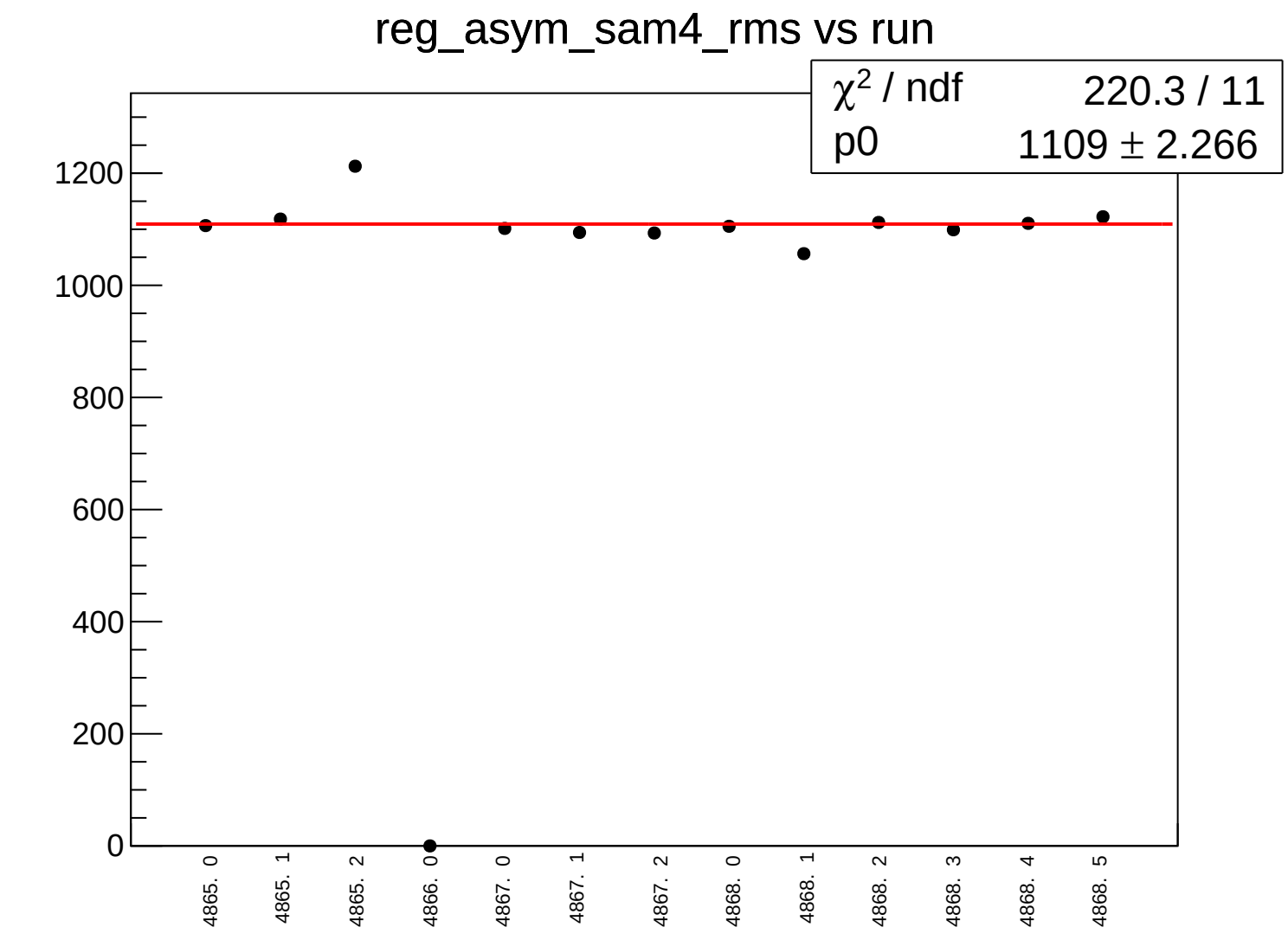

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 9.338 / 11
p0 −1.65e+04 ± 2.397e+04
200
100
0
−100
−200
−300
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

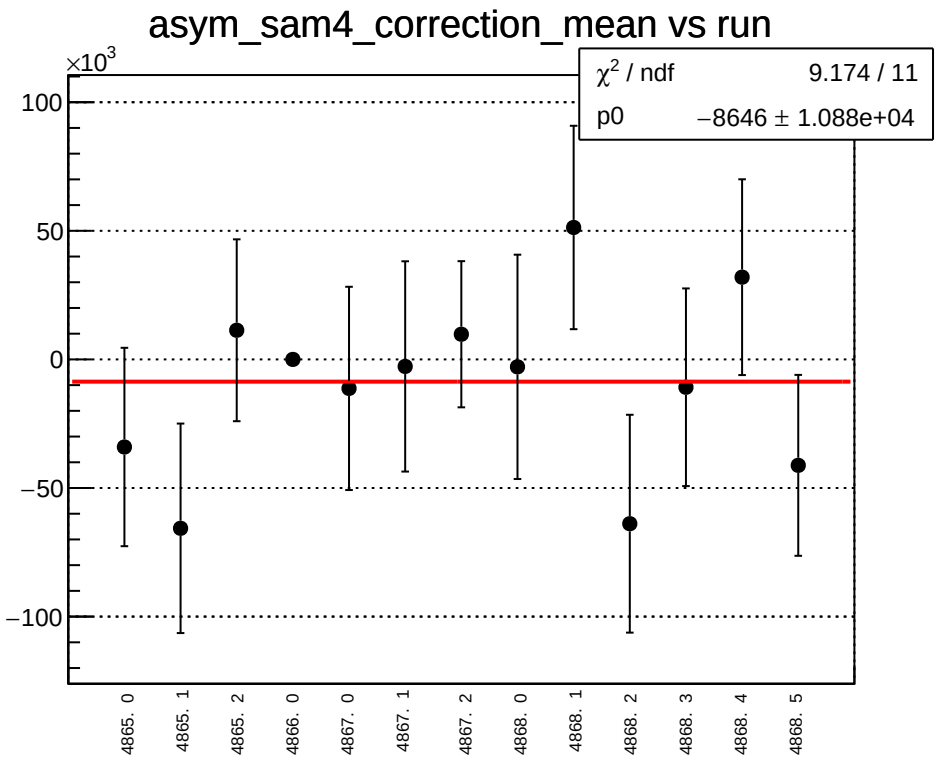

pull1D
Entries 13
Mean −0.02985
Std Dev 0.8816
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

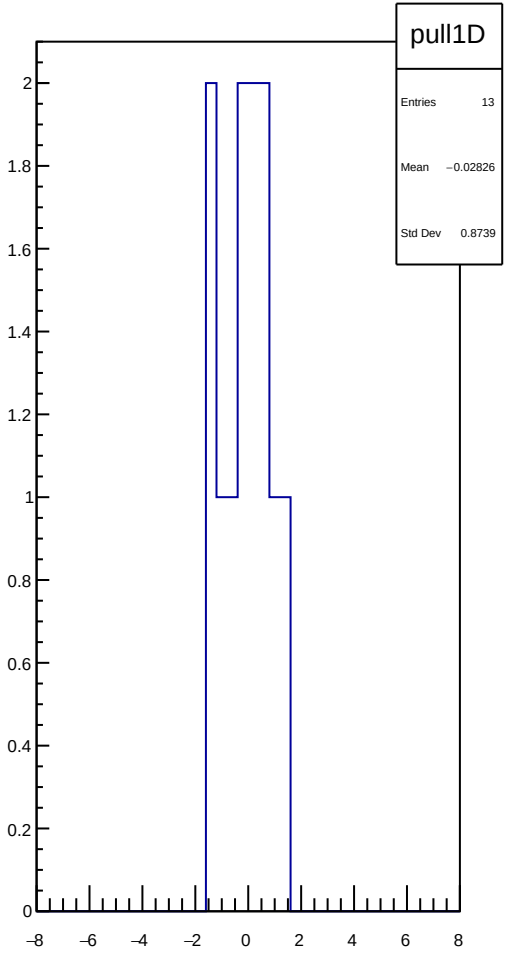

asym_sam3_correction_rms vs run
χ² / ndf 665.5 / 11
p0 8290 ± 16.95
10000
8000
6000
4000
2000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

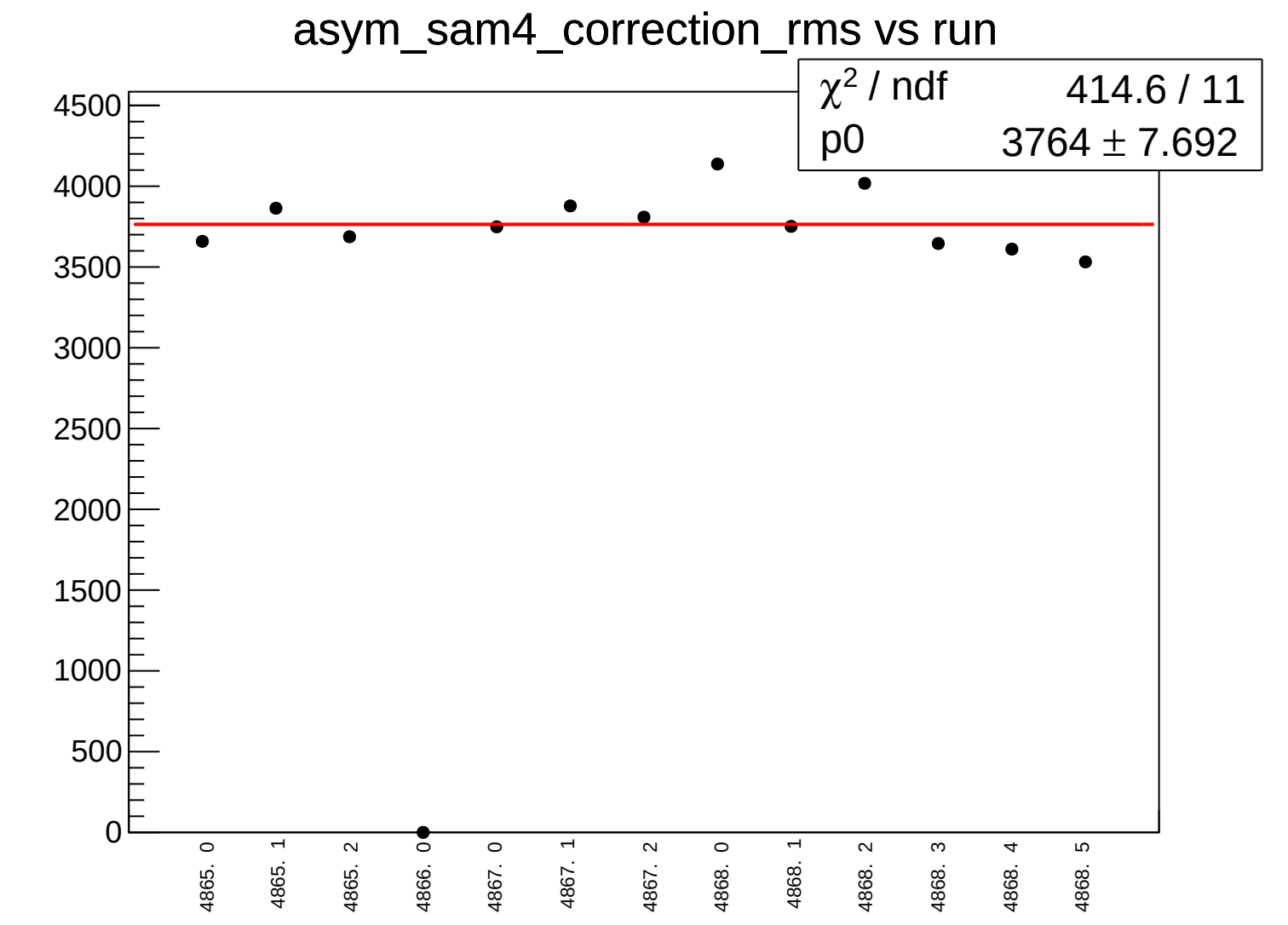

reg_asym_sam4_mean vs run
χ² / ndf 10.35 / 11
p0 643.5 ± 3205
40000
30000
20000
10000
0
−10000
−20000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

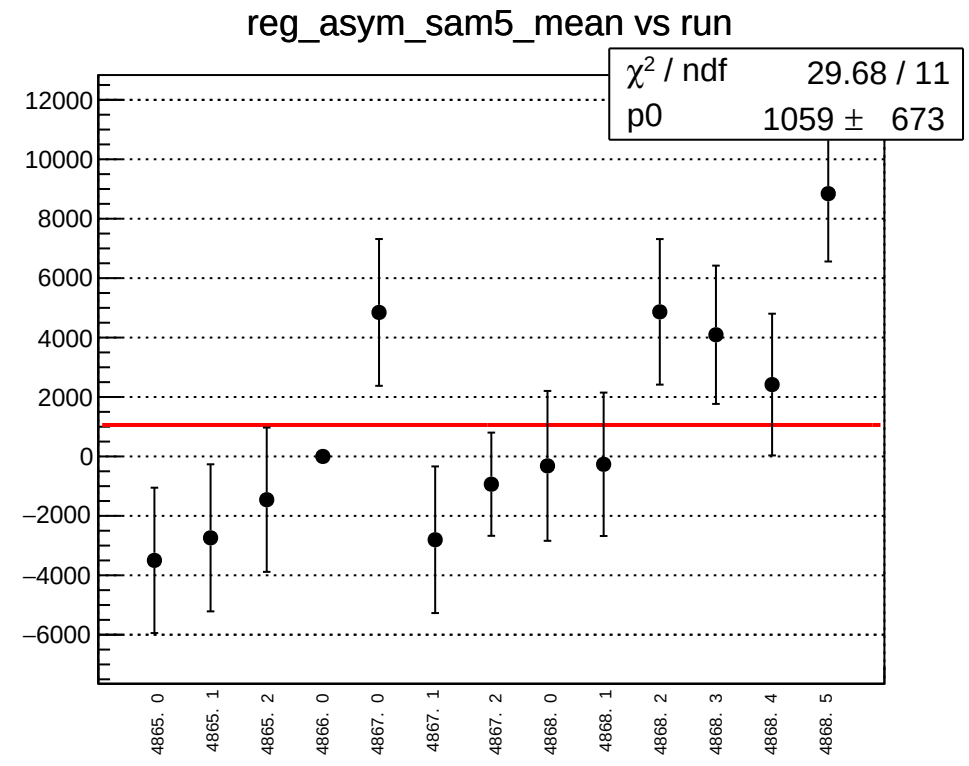

pull1D
Entries 13
Mean 0.01101
Std Dev 0.9285
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

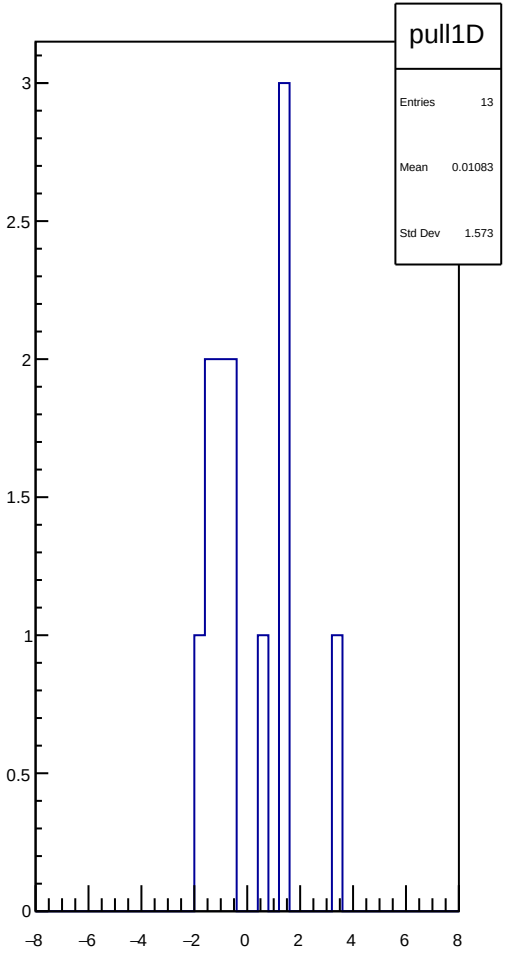

reg_asym_sam4_rms vs run
χ² / ndf 220.3 / 11
p0 1109 ± 2.266
1200
1000
800
600
400
200
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

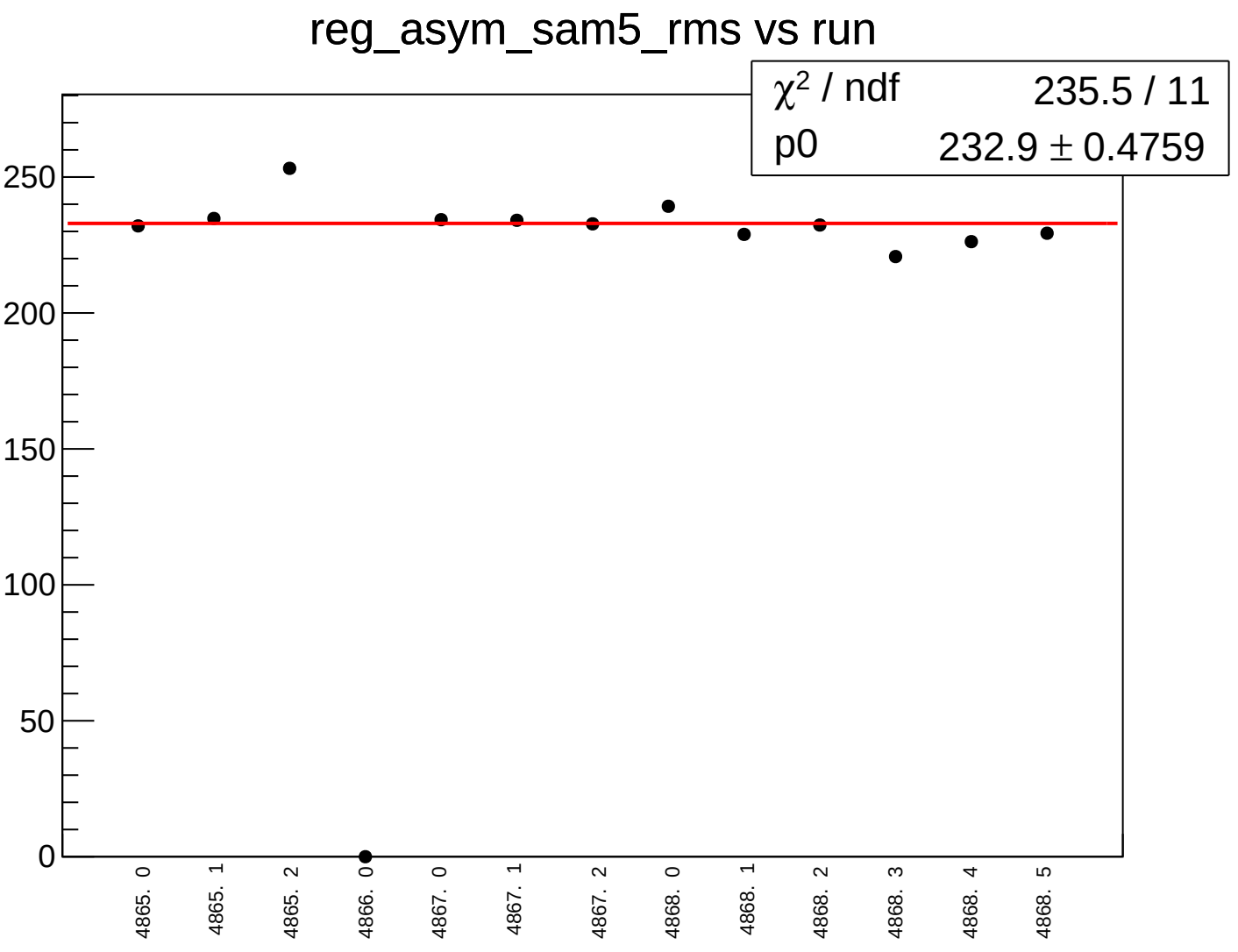

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 9.174 / 11
p0 −8646 ± 1.088e+04
100
50
0
−50
−100
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

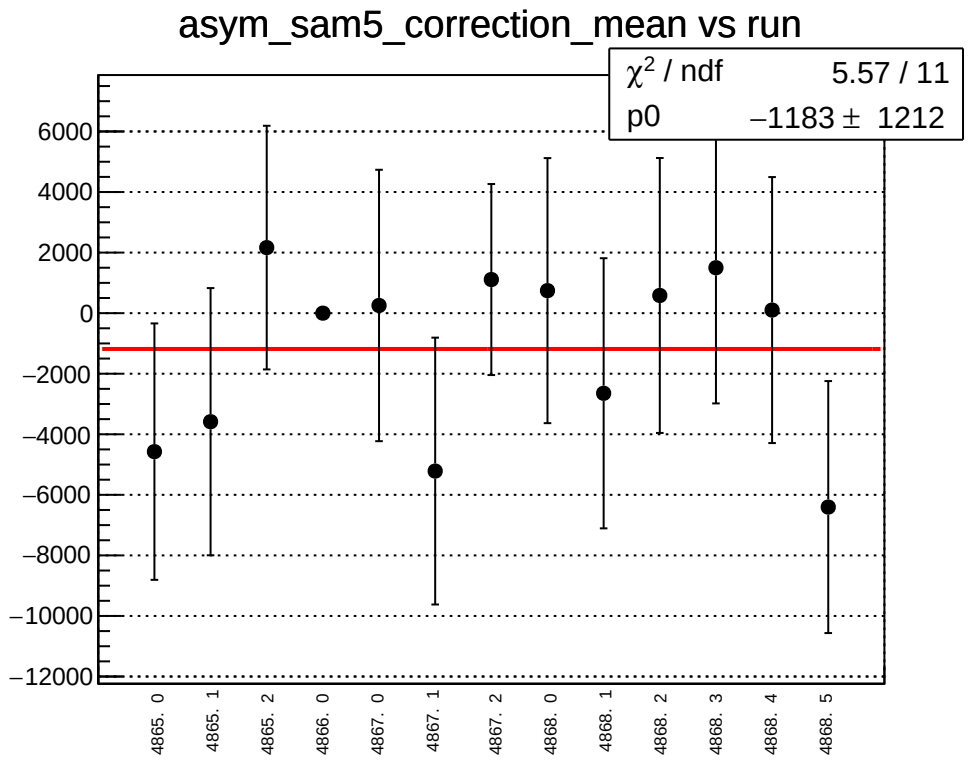

pull1D
Entries 13
Mean −0.02826
Std Dev 0.8739
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

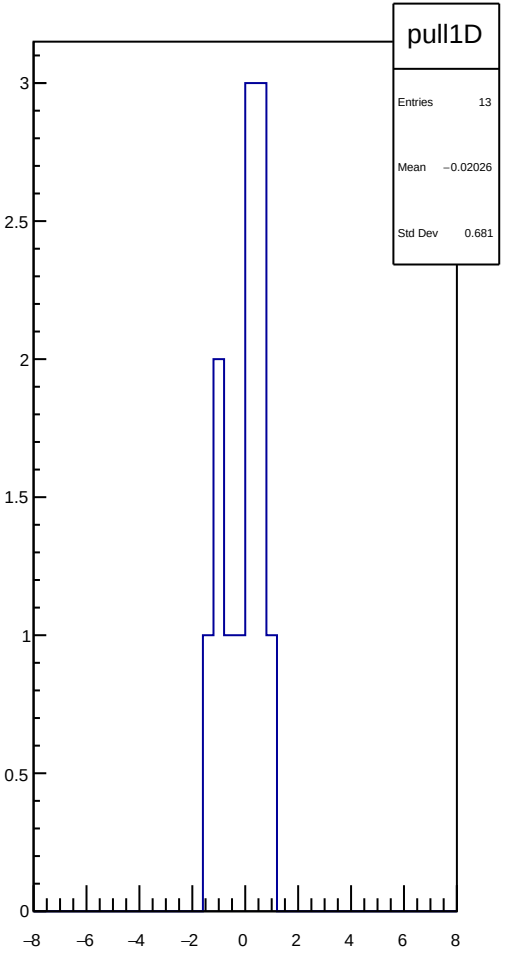

asym_sam4_correction_rms vs run
χ² / ndf 414.6 / 11
p0 3764 ± 7.692
4500
4000
3500
3000
2500
2000
1500
1000
500
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

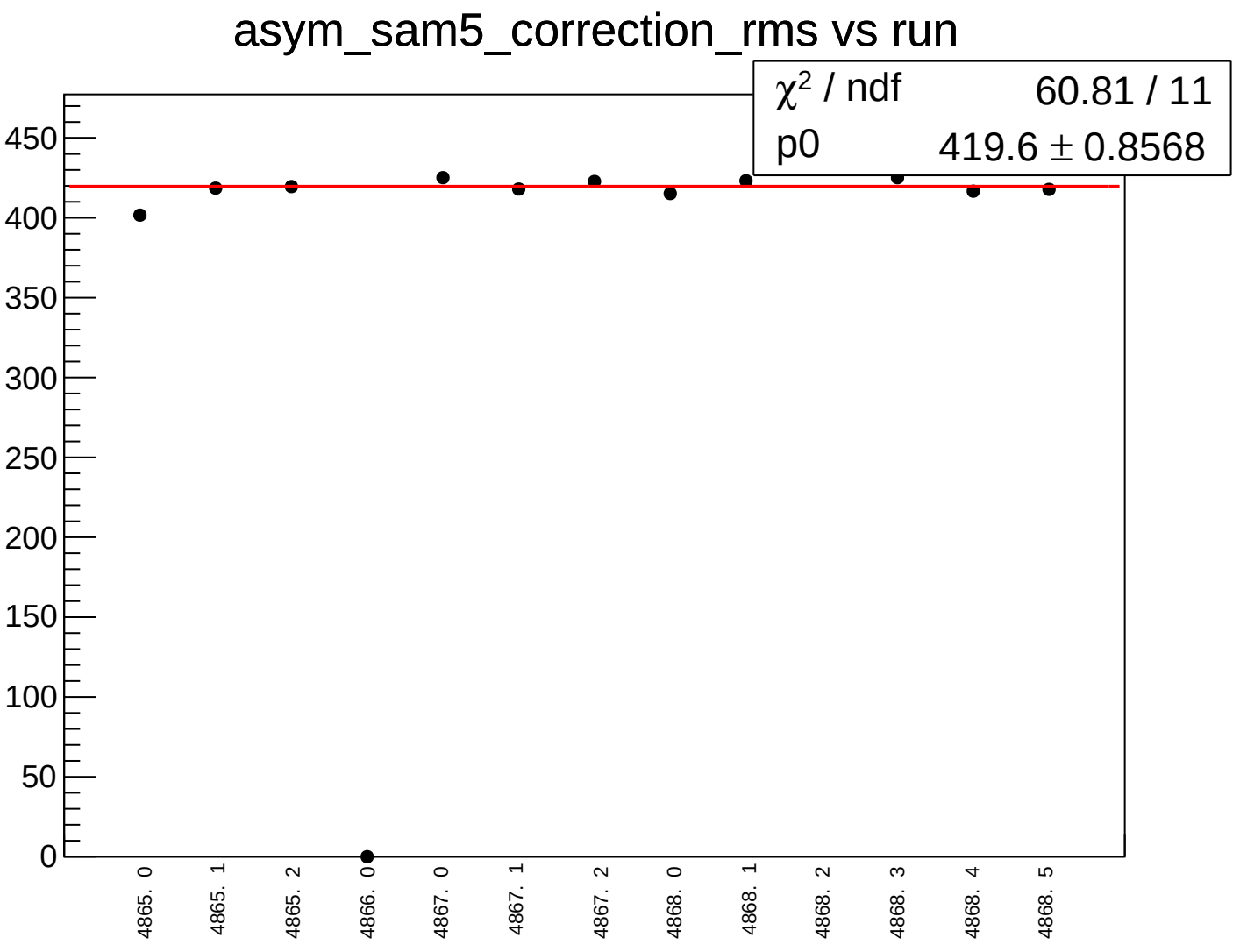

reg_asym_sam5_mean vs run
χ² / ndf 29.68 / 11
p0 1059 ± 673
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

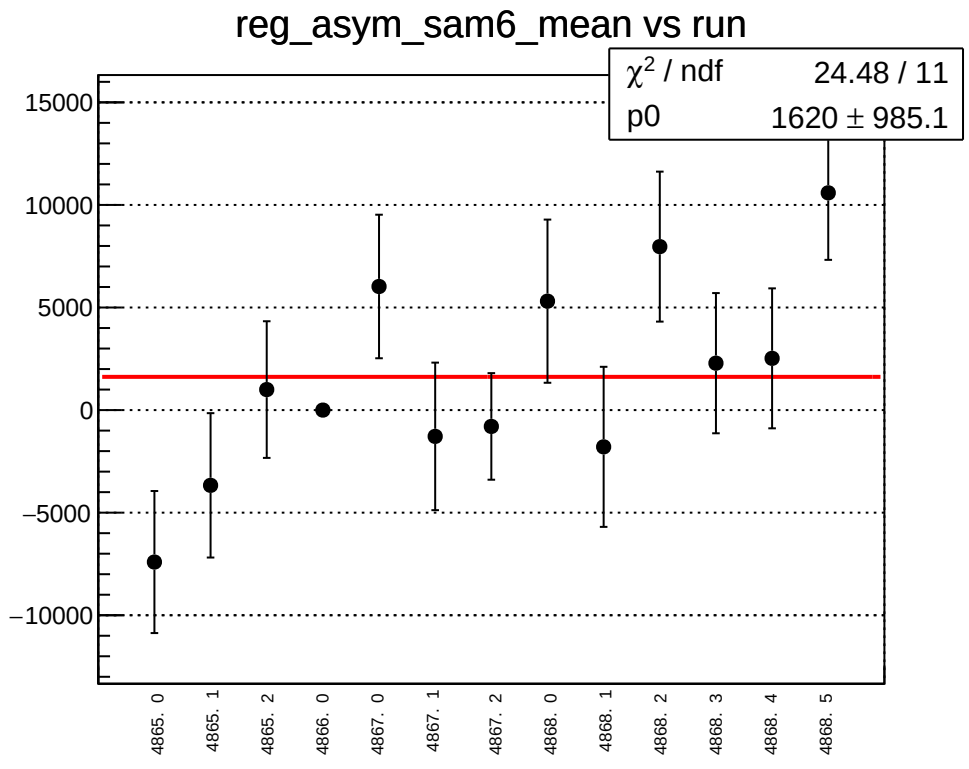

pull1D
Entries 13
Mean 0.01083
Std Dev 1.573
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

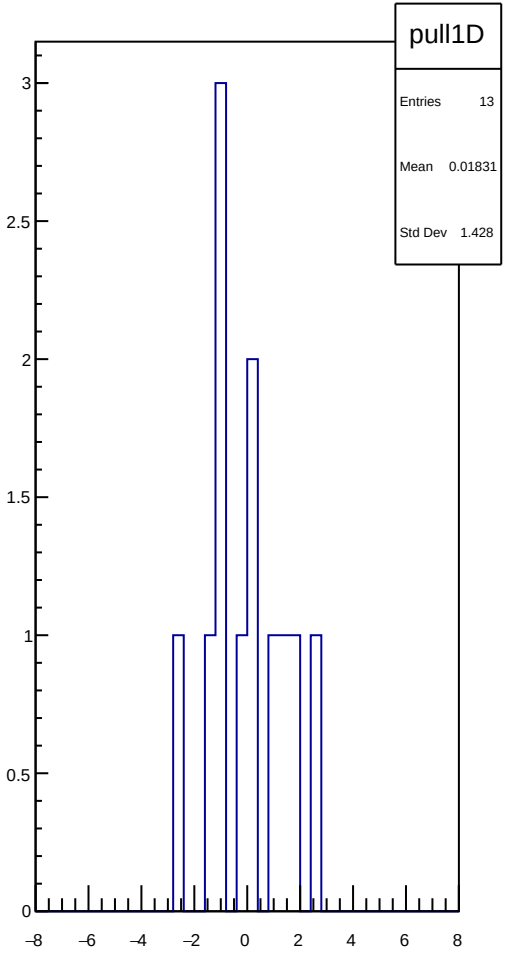

reg_asym_sam5_rms vs run
χ² / ndf 235.5 / 11
p0 232.9 ± 0.4759
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

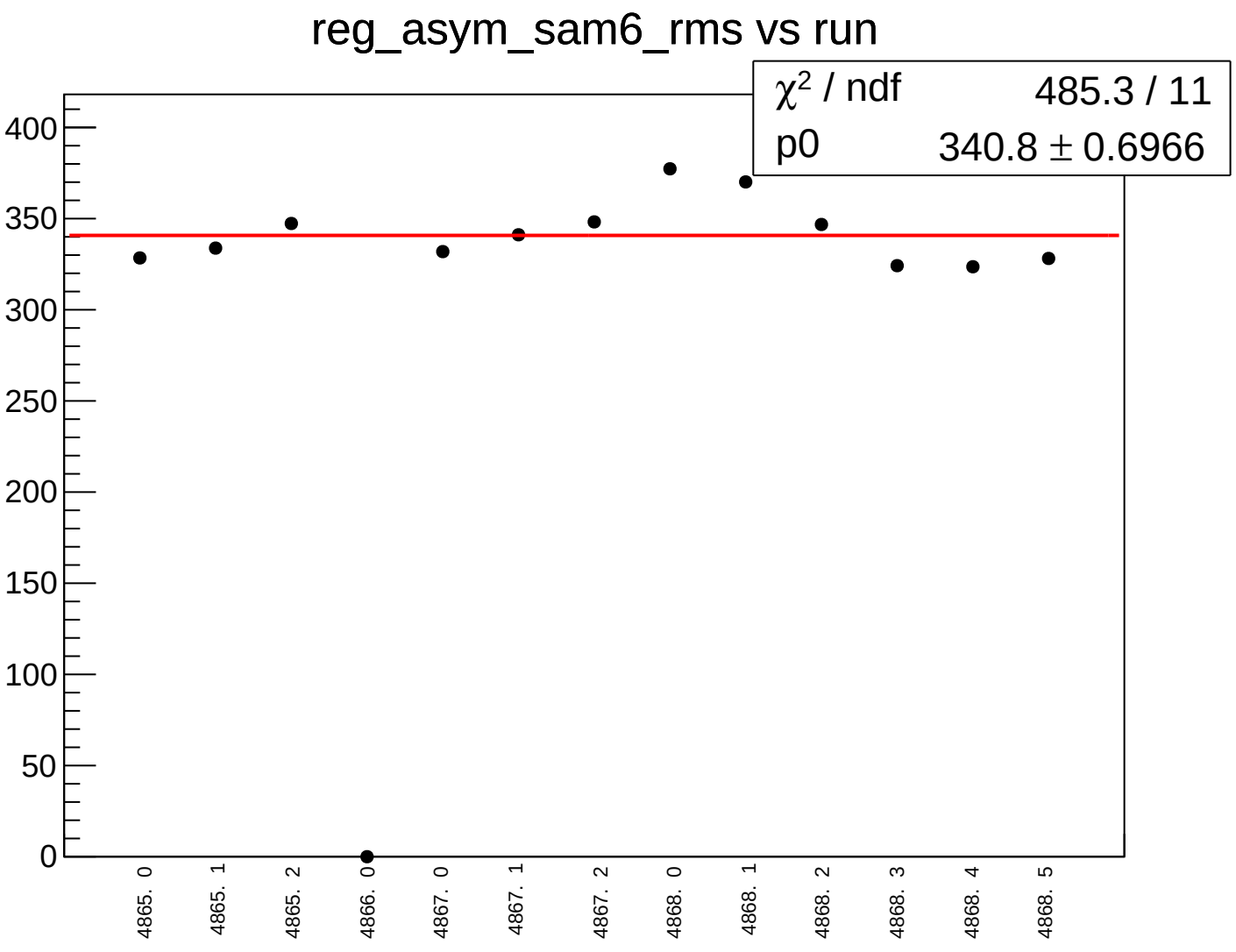

asym_sam5_correction_mean vs run
χ² / ndf 5.57 / 11
p0 −1183 ± 1212
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

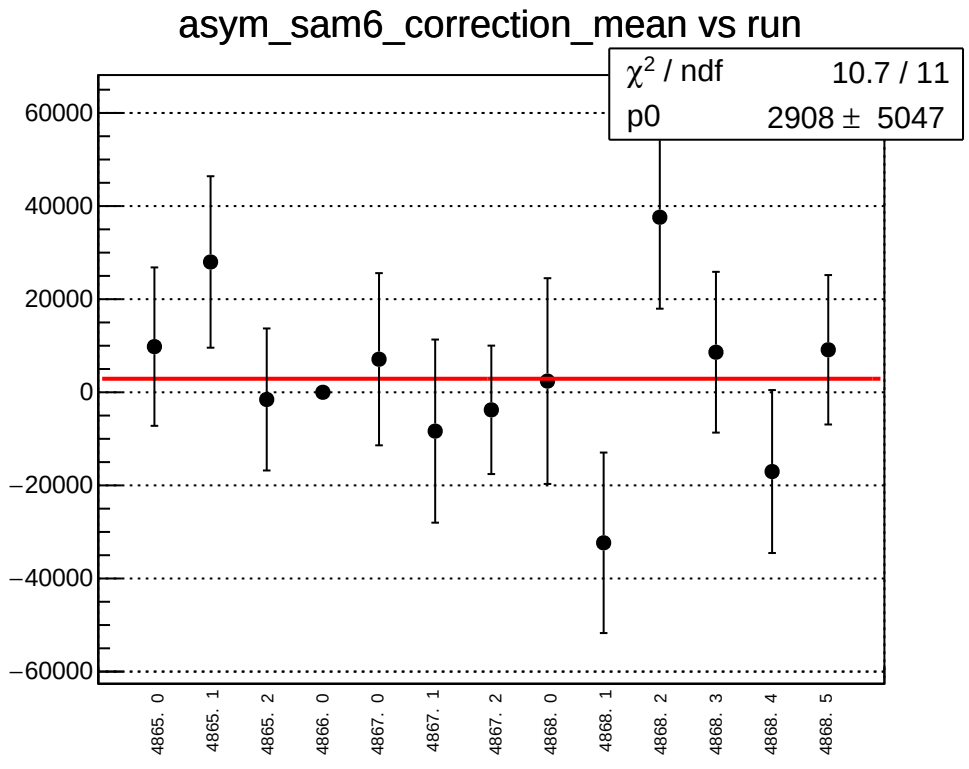

pull1D
Entries 13
Mean −0.02026
Std Dev 0.681
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam5_correction_rms vs run
χ² / ndf 60.81 / 11
p0 419.6 ± 0.8568
450
400
350
300
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


reg_asym_sam6_mean vs run
χ² / ndf 24.48 / 11
p0 1620 ± 985.1
15000
10000
5000
0
−5000
−10000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.01831
Std Dev 1.428
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam6_rms vs run
χ² / ndf 485.3 / 11
p0 340.8 ± 0.6966
400
350
300
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_sam6_correction_mean vs run
χ² / ndf 10.7 / 11
p0 2908 ± 5047
60000
40000
20000
0
−20000
−40000
−60000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
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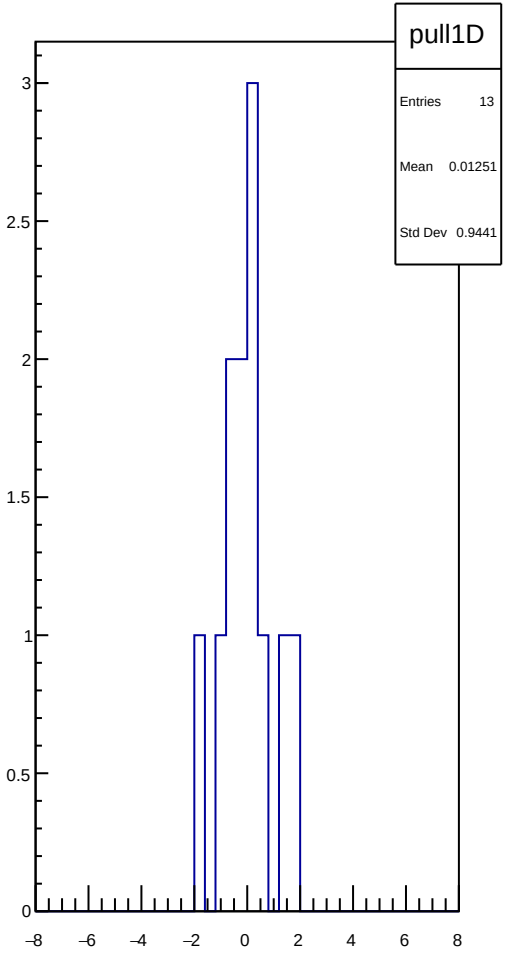
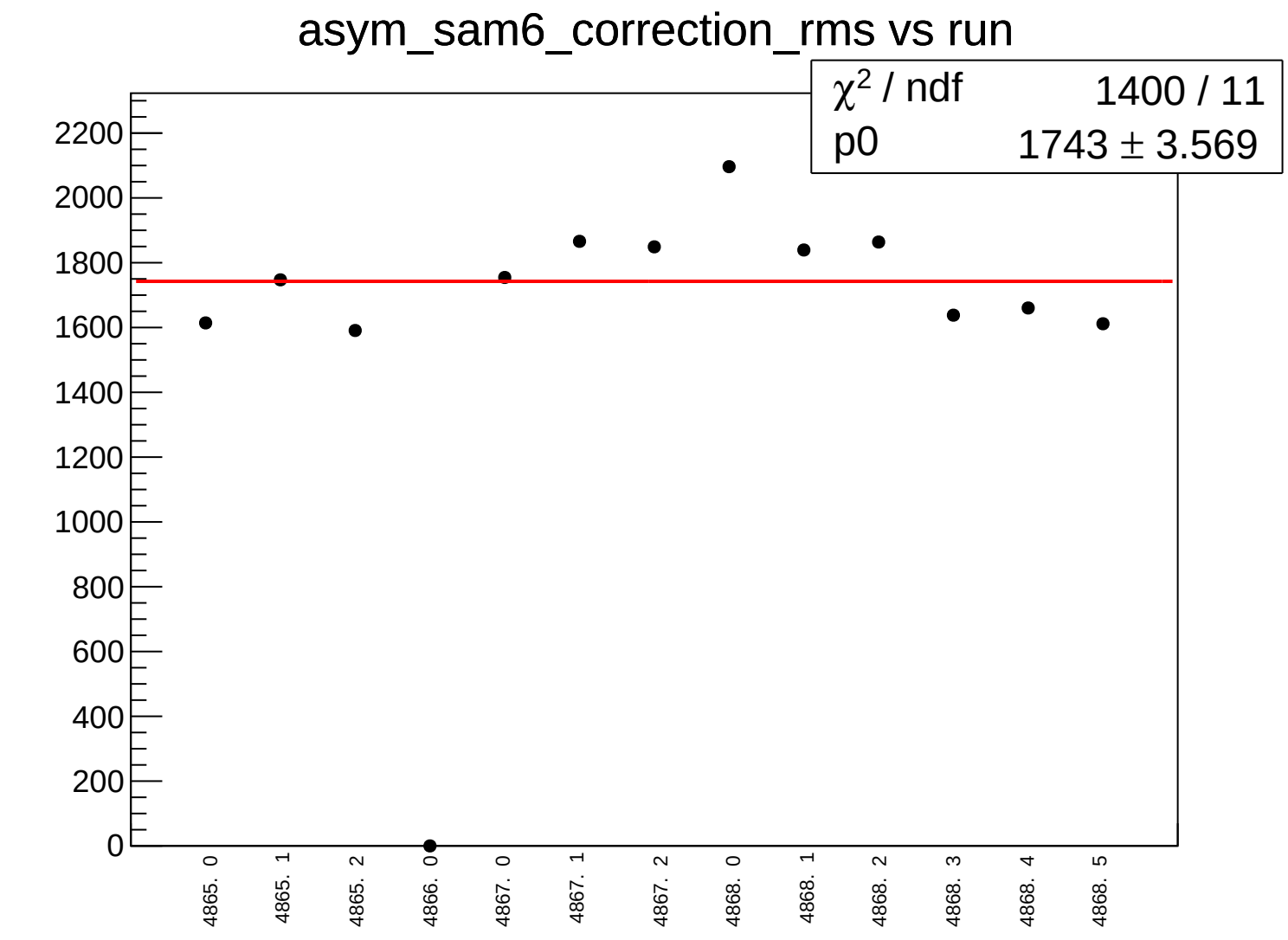
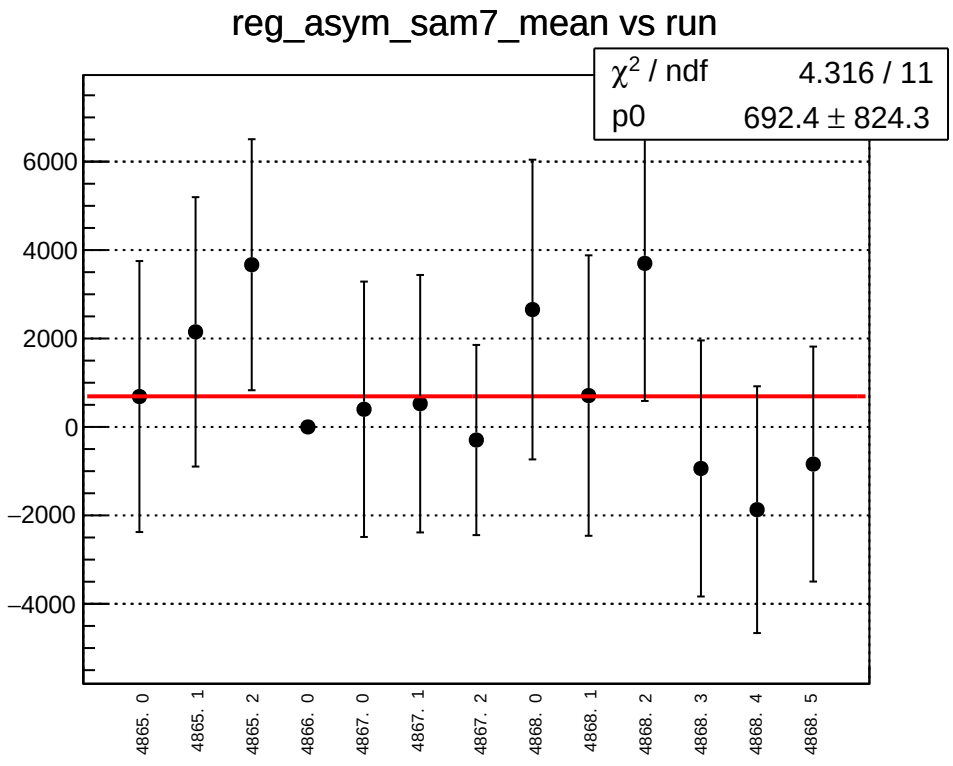
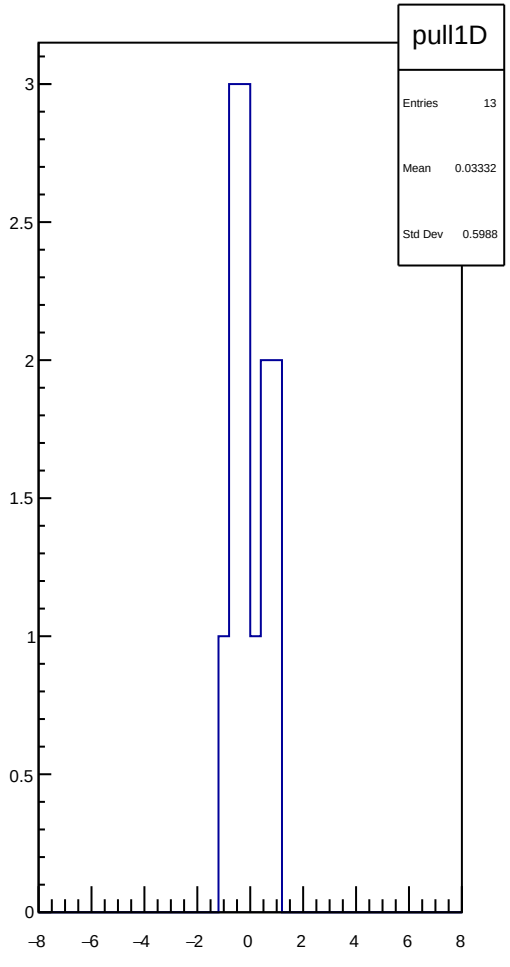
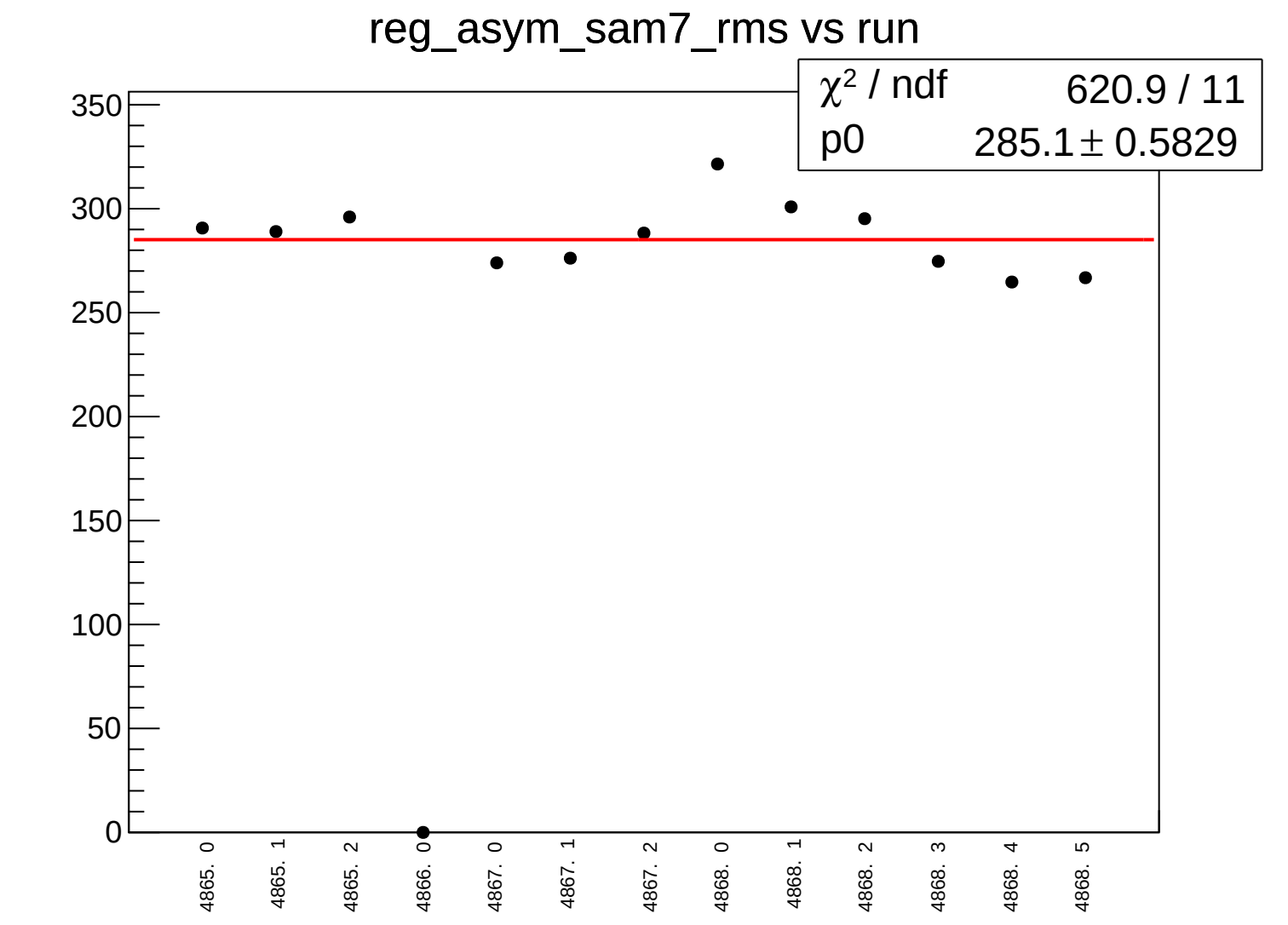
4868. 4
4868. 5

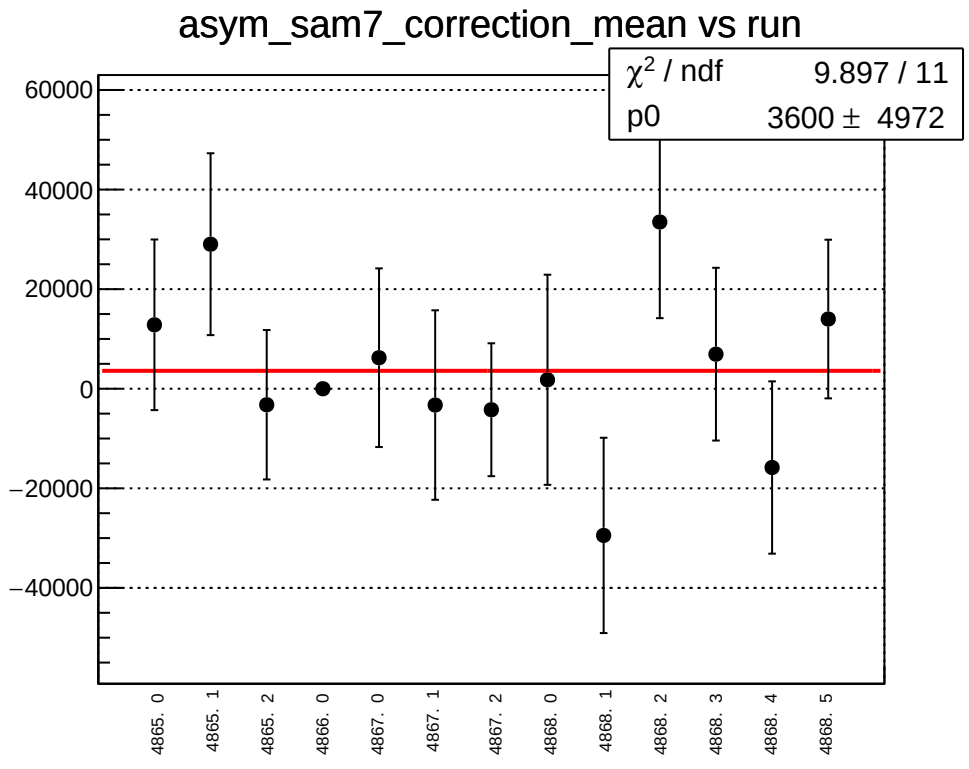

pull1D
Entries 13
Mean 0.01251
Std Dev 0.9441
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

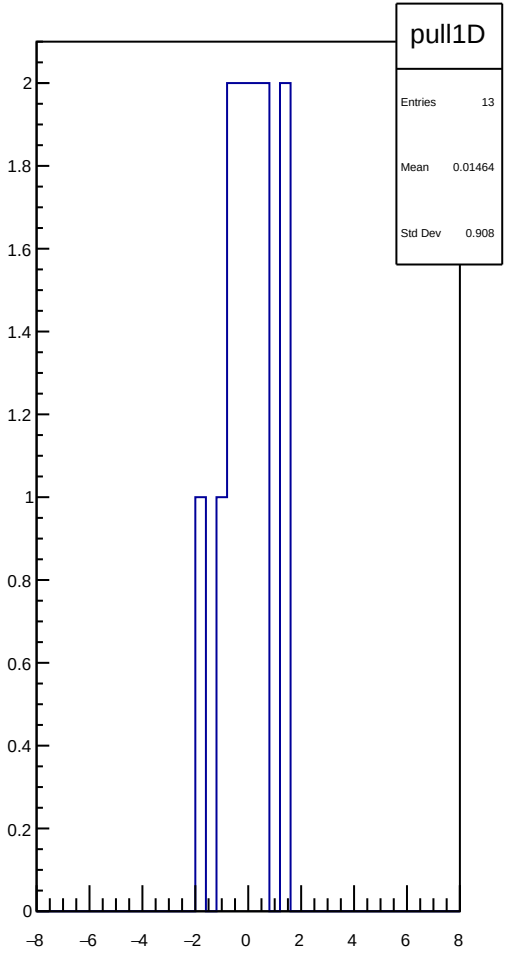

asym_sam6_correction_rms vs run
χ² / ndf 1400 / 11
p0 1743 ± 3.569
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

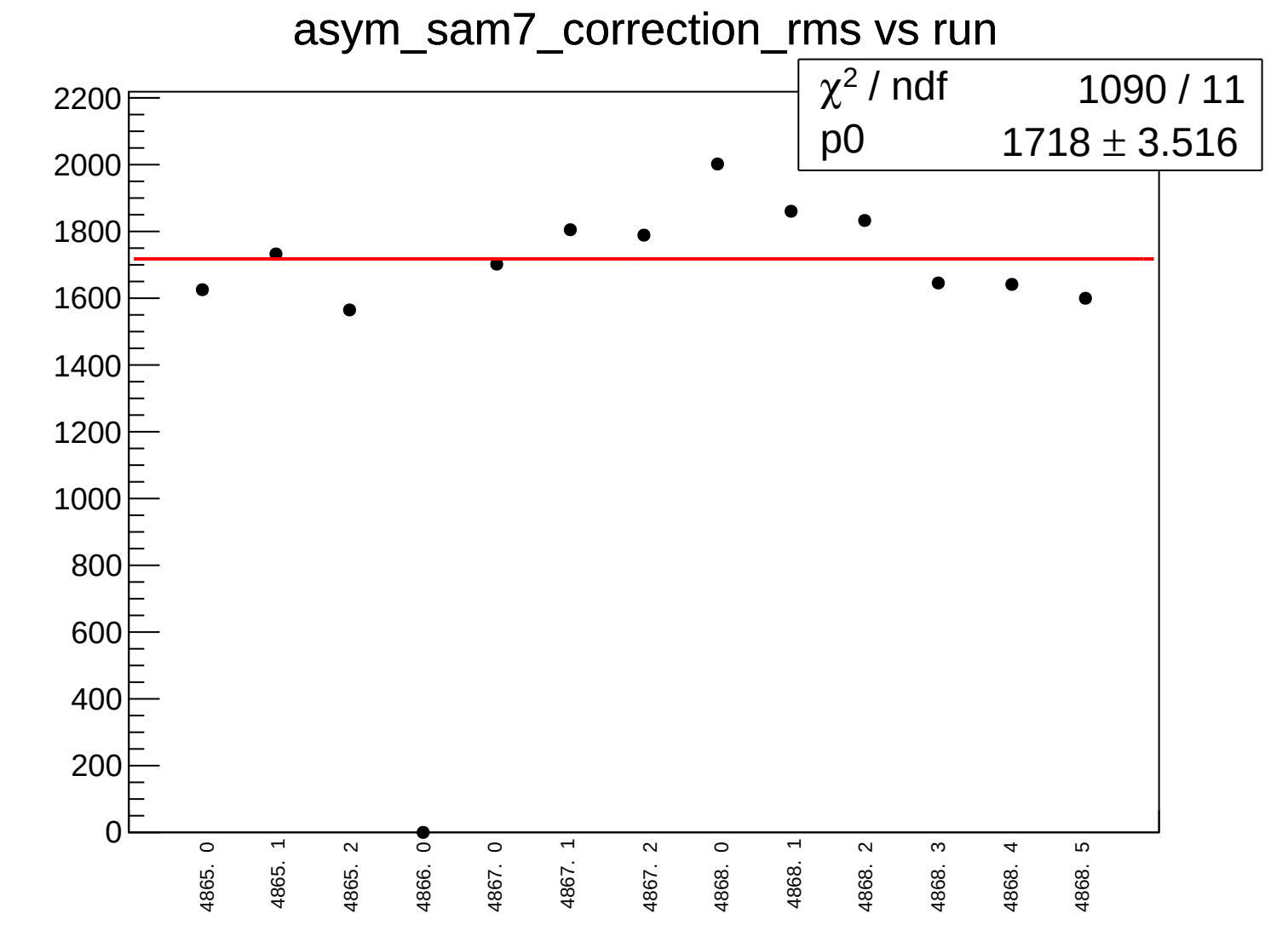

reg_asym_sam7_mean vs run
χ² / ndf 4.316 / 11
p0 692.4 ± 824.3
6000
4000
2000
0
−2000
−4000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

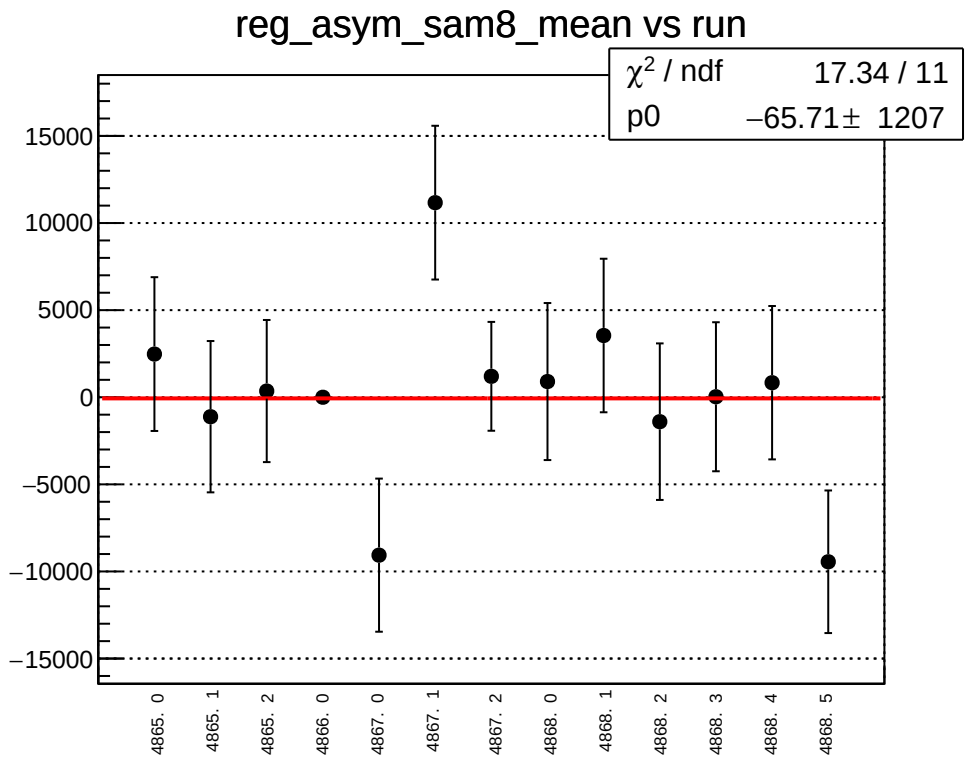

pull1D
Entries 13
Mean 0.03332
Std Dev 0.5988
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

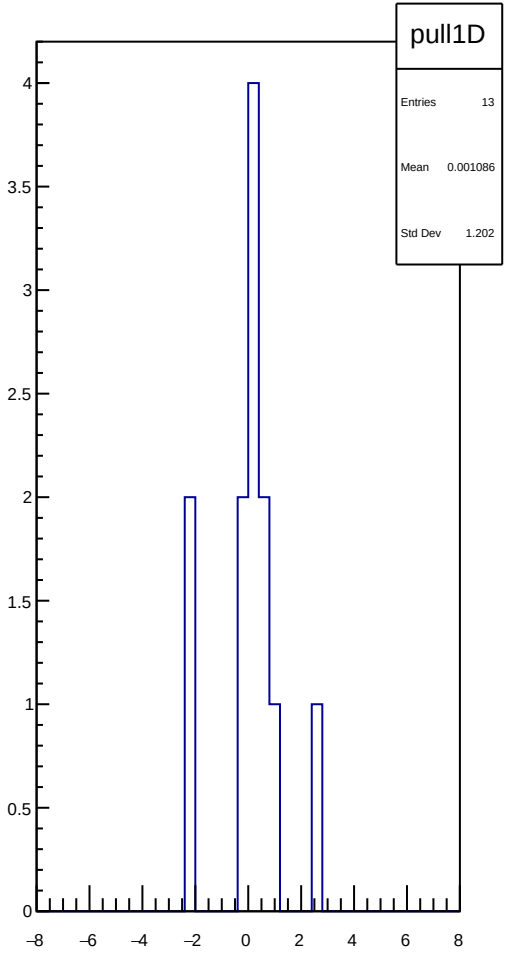

reg_asym_sam7_rms vs run
χ² / ndf 620.9 / 11
p0 285.1 ± 0.5829
350
300
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

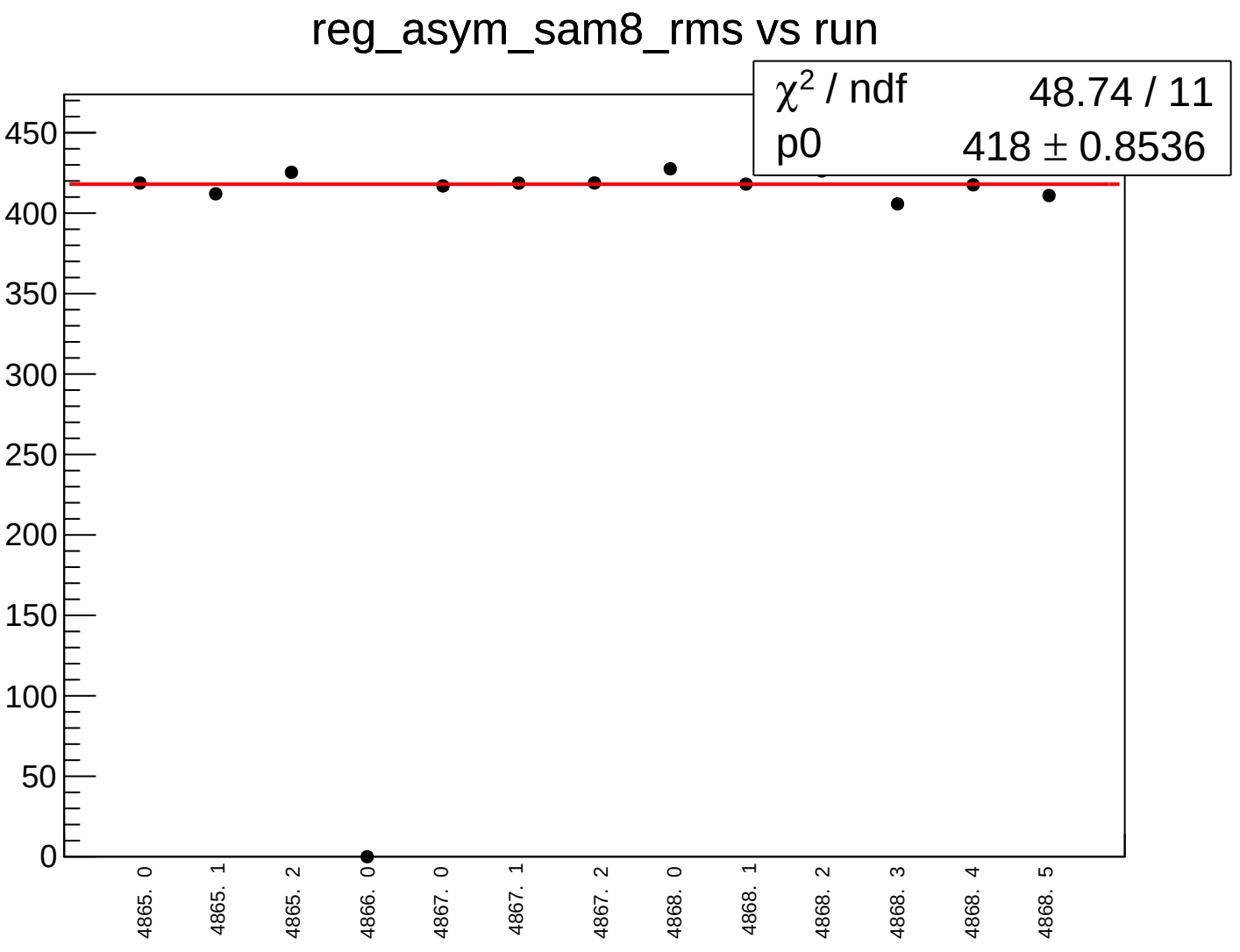

asym_sam7_correction_mean vs run
χ² / ndf 9.897 / 11
p0 3600 ± 4972
60000
40000
20000
0
−20000
−40000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

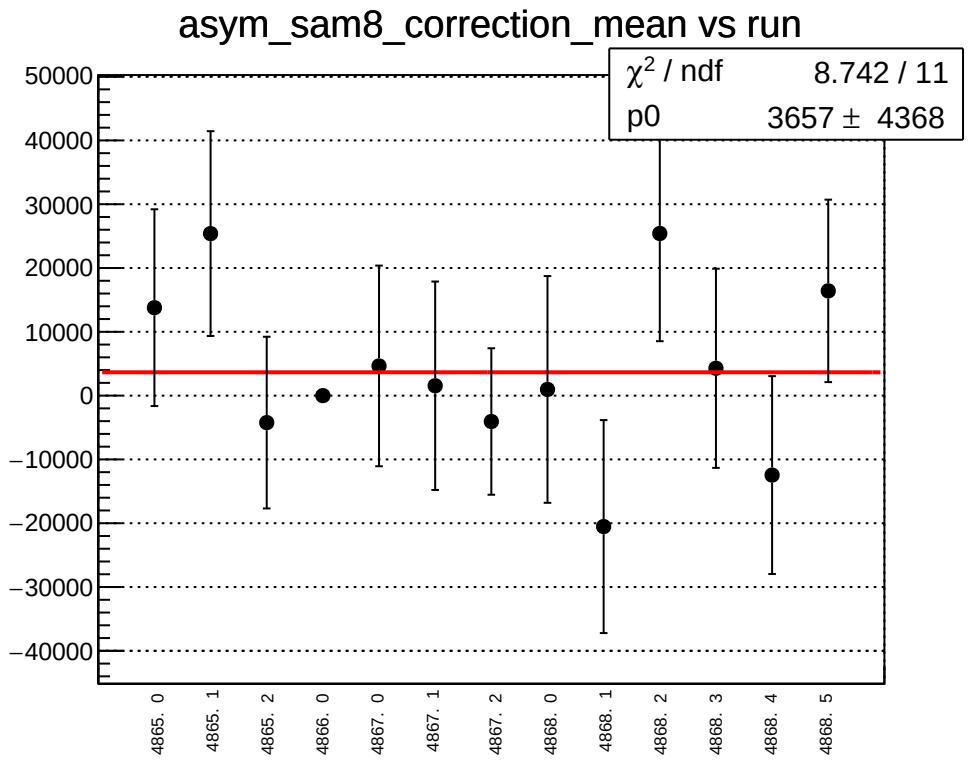

pull1D
Entries 13
Mean 0.01464
Std Dev 0.908
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

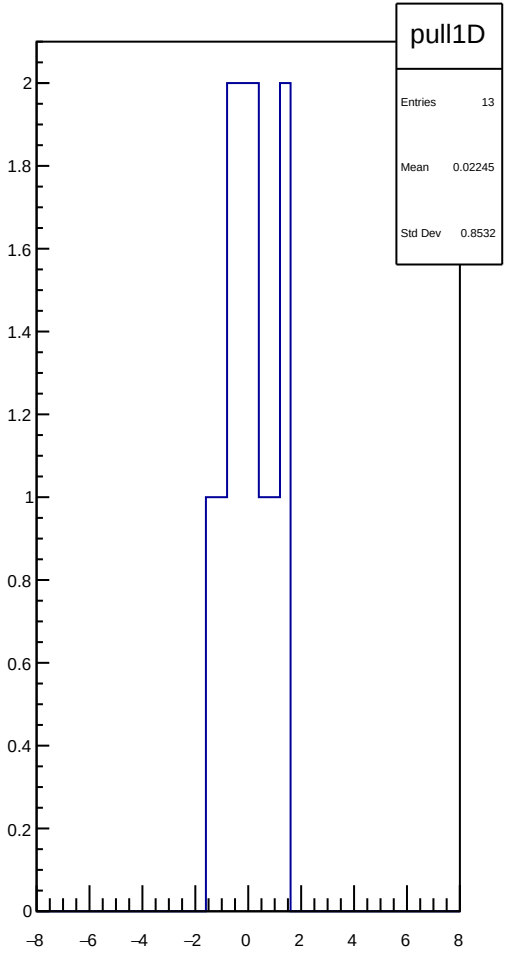

asym_sam7_correction_rms vs run
χ² / ndf 1090 / 11
p0 1718 ± 3.516
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

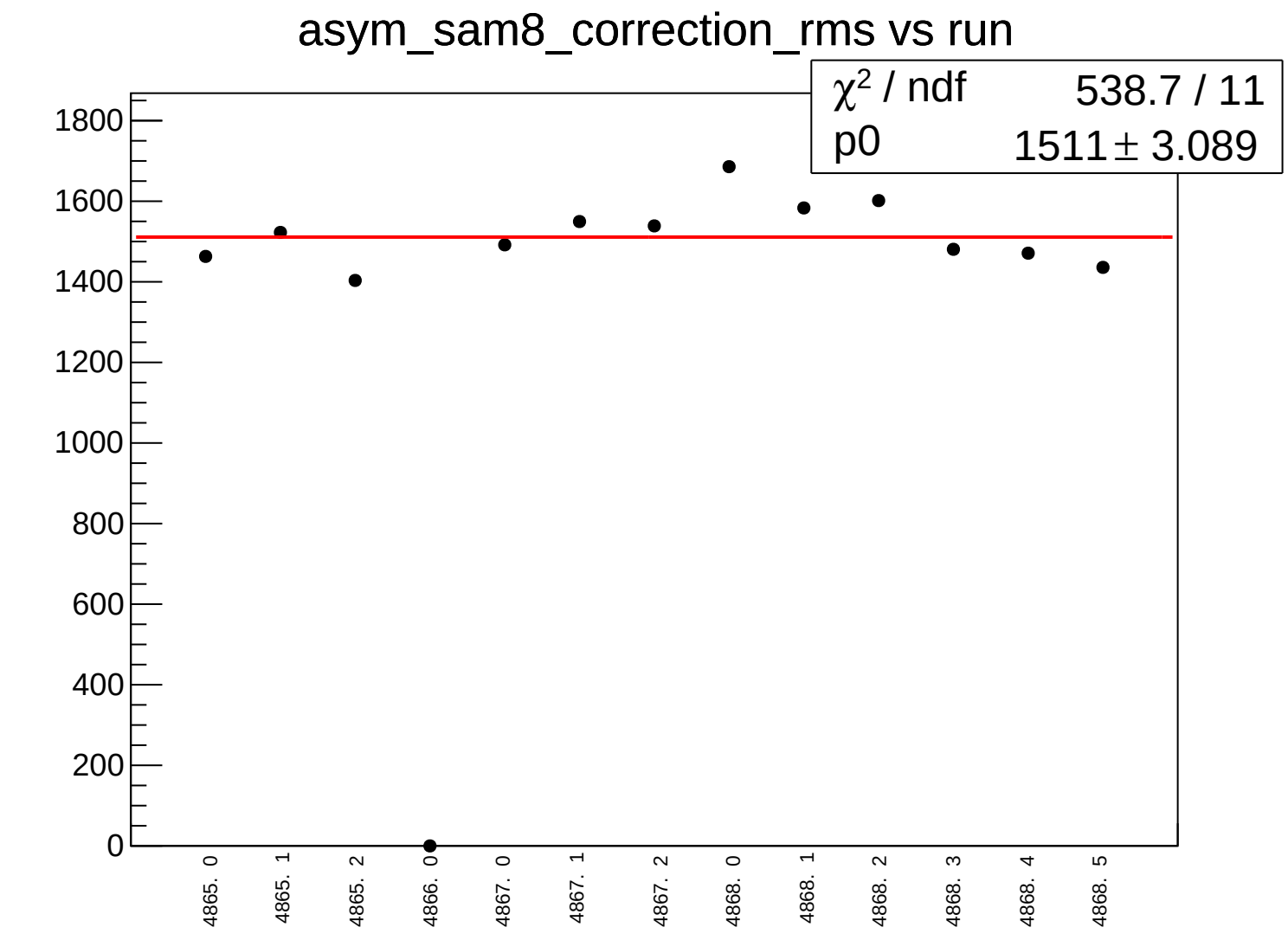

reg_asym_sam8_mean vs run
χ² / ndf 17.34 / 11
p0 −65.71± 1207
15000
10000
5000
0
−5000
−10000
−15000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

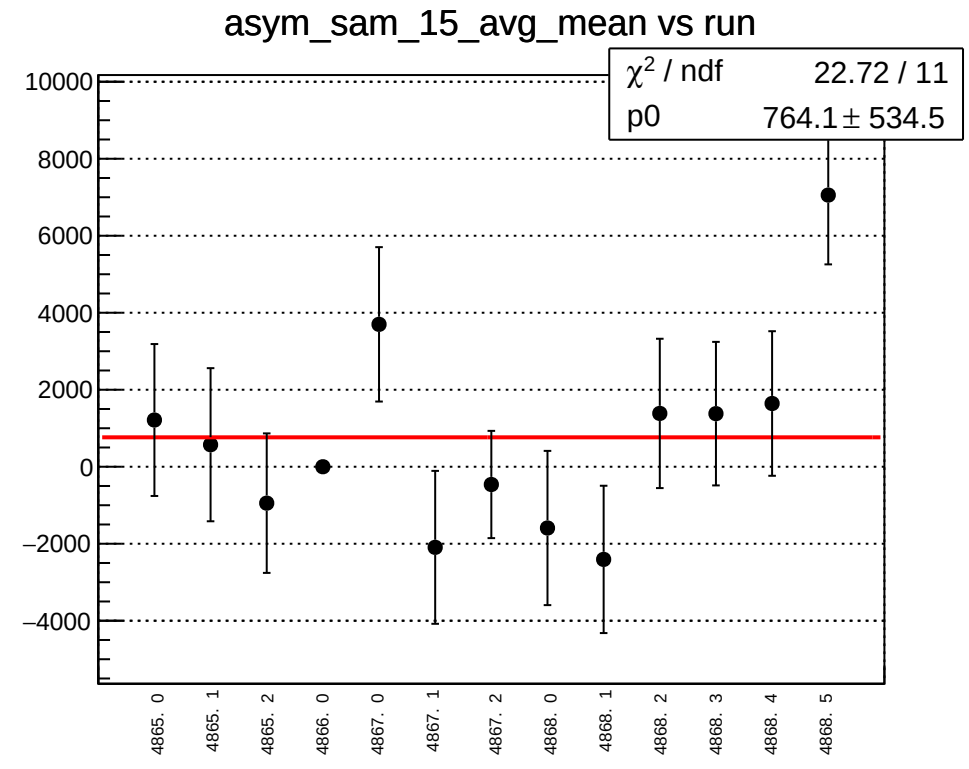

pull1D
Entries 13
Mean 0.001086
Std Dev 1.202
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam8_rms vs run
χ² / ndf 48.74 / 11
p0 418 ± 0.8536
450
400
350
300
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_sam8_correction_mean vs run
χ² / ndf 8.742 / 11
p0 3657 ± 4368
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.02245
Std Dev 0.8532
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam8_correction_rms vs run
χ² / ndf 538.7 / 11
p0 1511 ± 3.089
1800
1600
1400
1200
1000
800
600
400
200
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_sam_15_avg_mean vs run
χ² / ndf 22.72 / 11
p0 764.1 ± 534.5
10000
8000
6000
4000
2000
0
−2000
−4000
4865. 0
4865. 1
4865. 2
4866. 0
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4867. 2
4868. 0
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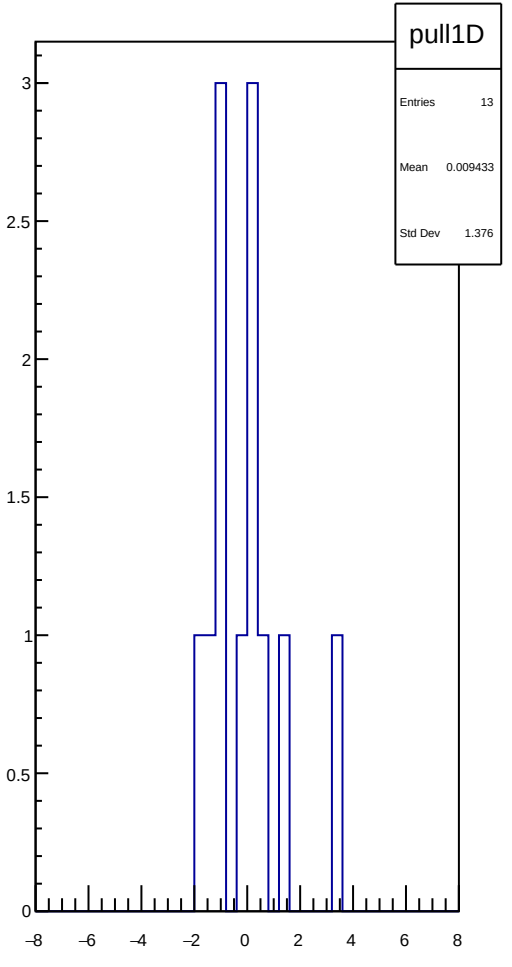
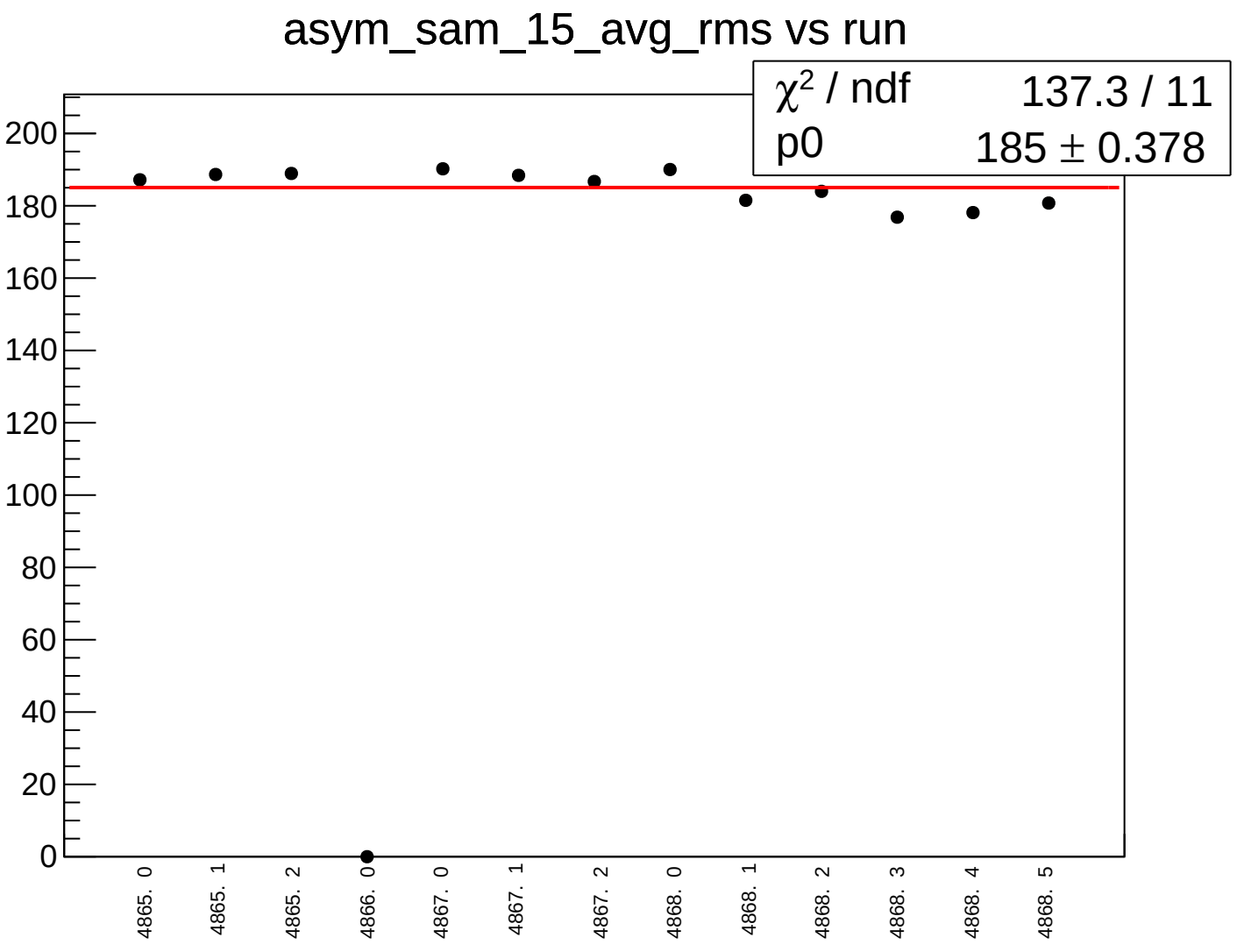
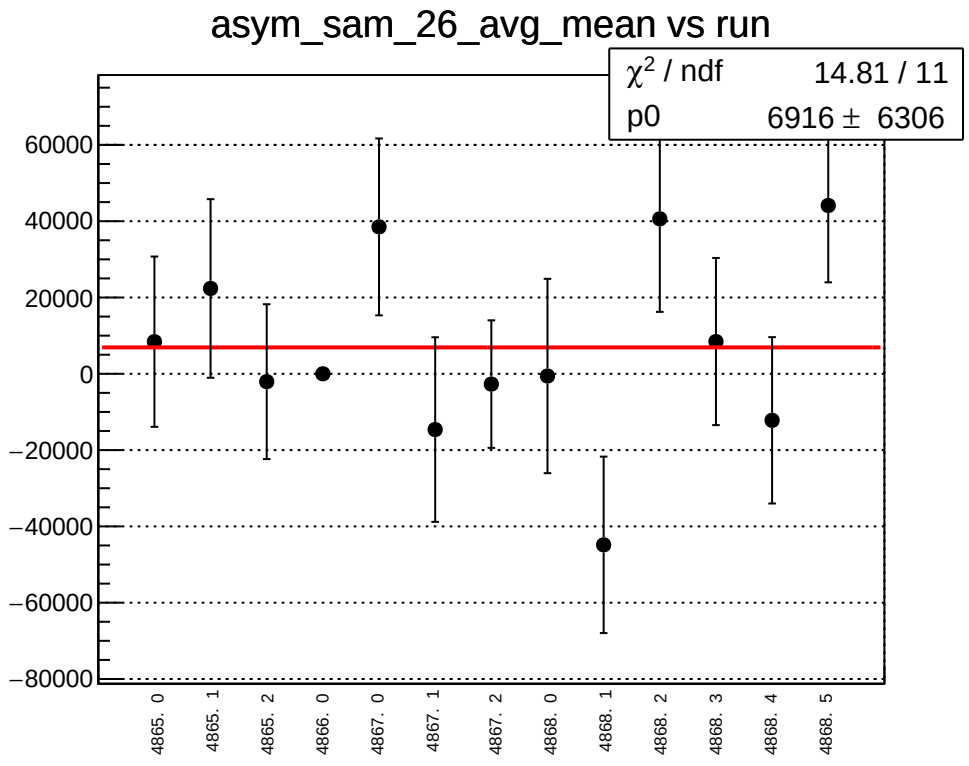
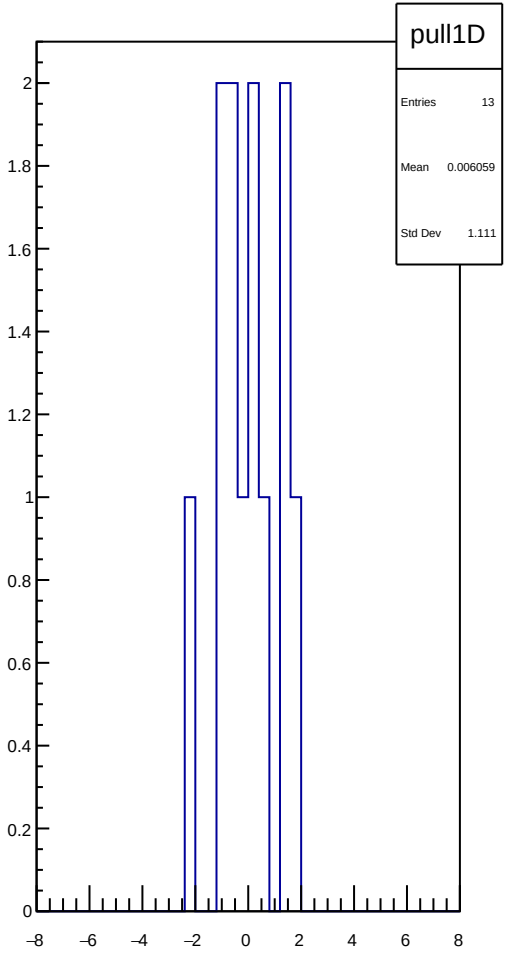
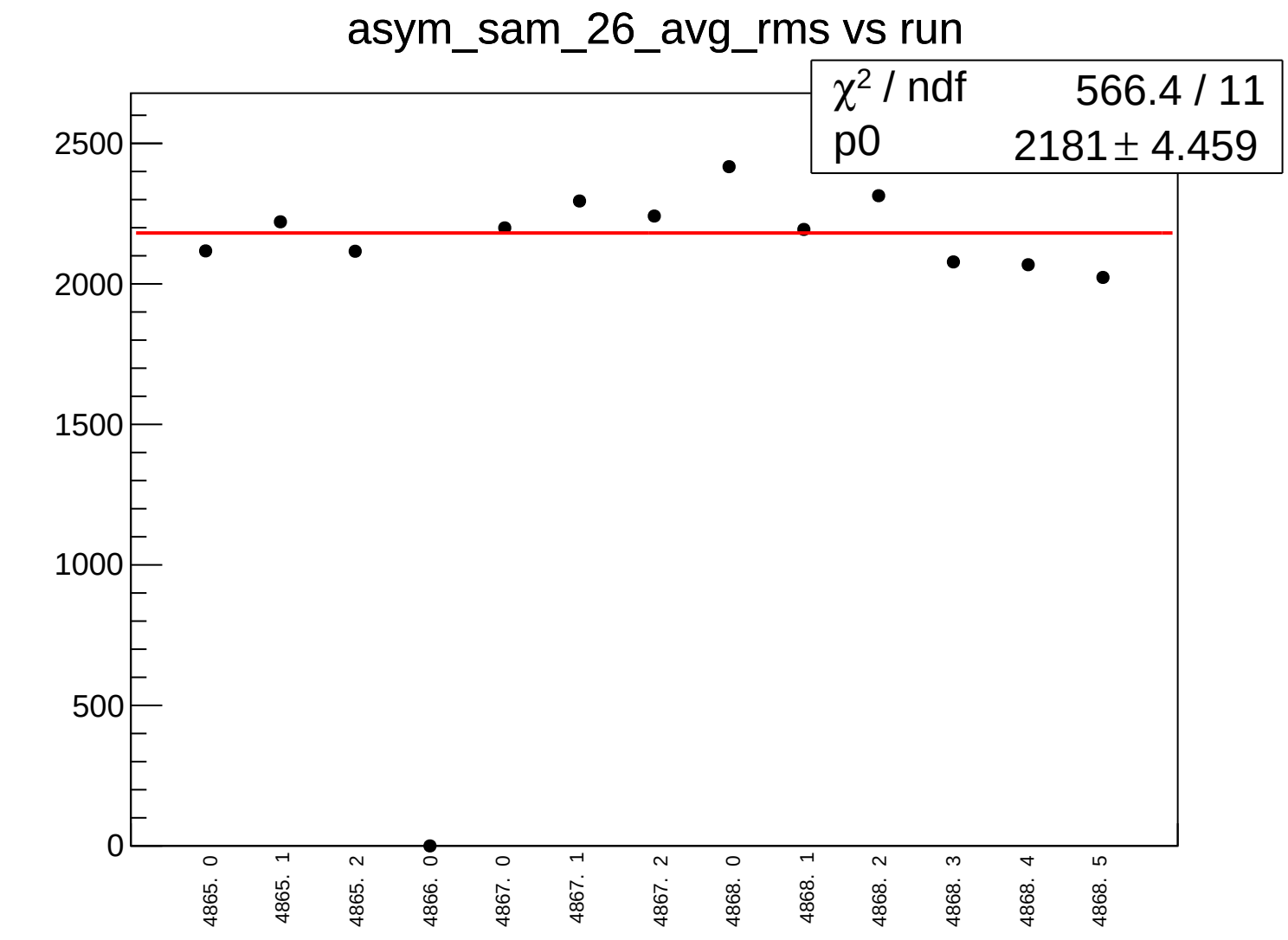
4868. 2
4868. 3
4868. 4
4868. 5

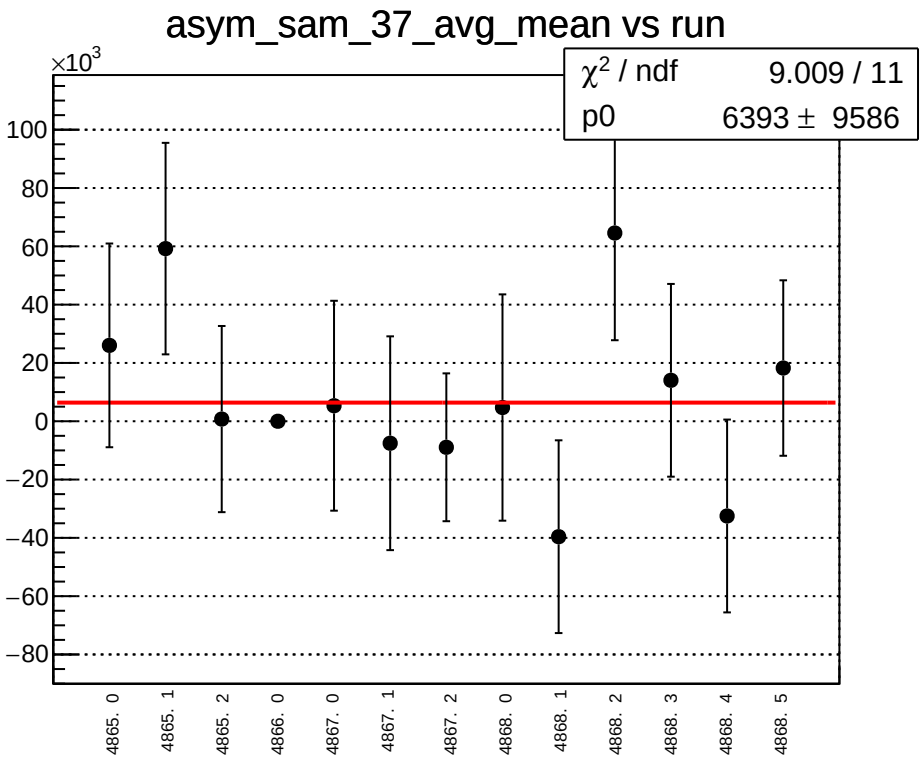

pull1D
Entries 13
Mean 0.009433
Std Dev 1.376
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

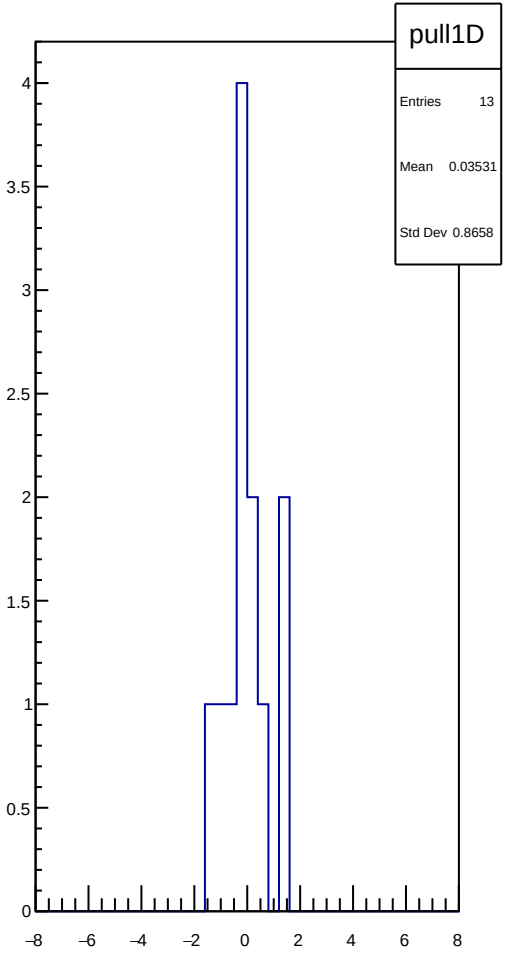

asym_sam_15_avg_rms vs run
χ² / ndf 137.3 / 11
p0 185 ± 0.378
200
180
160
140
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

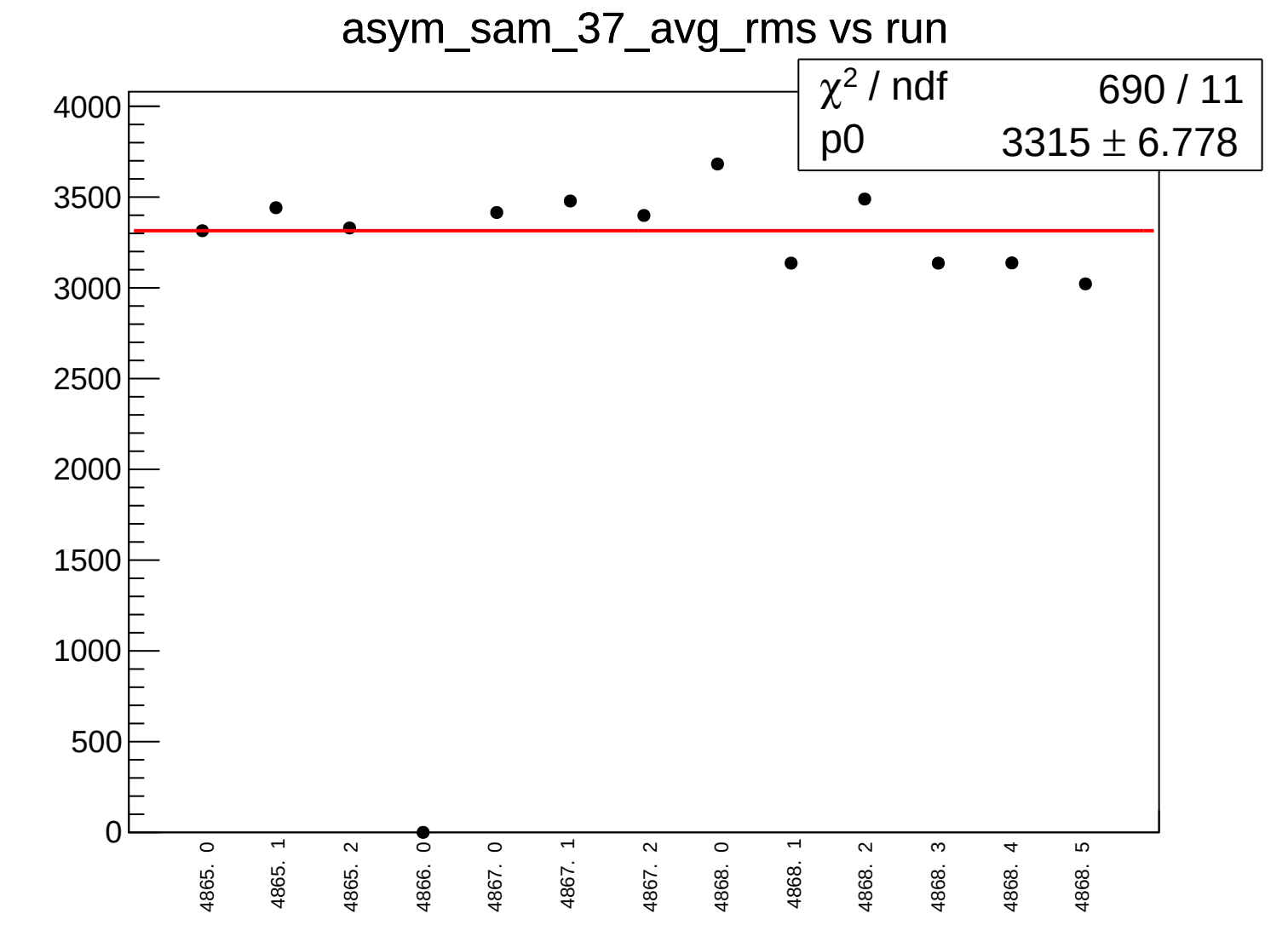

asym_sam_26_avg_mean vs run
χ² / ndf 14.81 / 11
p0 6916 ± 6306
60000
40000
20000
0
−20000
−40000
−60000
−80000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.006059
Std Dev 1.111
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_avg_rms vs run
χ² / ndf 566.4 / 11
p0 2181 ± 4.459
2500
2000
1500
1000
500
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_sam_37_avg_mean vs run
×10^3
χ^2 / ndf 9.009 / 11
p0 6393 ± 9586
100
80
60
40
20
0
−20
−40
−60
−80
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.03531
Std Dev 0.8658
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_avg_rms vs run
χ² / ndf 690 / 11
p0 3315 ± 6.778
4000
3500
3000
2500
2000
1500
1000
500
0
4865. 0
4865. 1
4865. 2
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4867. 2
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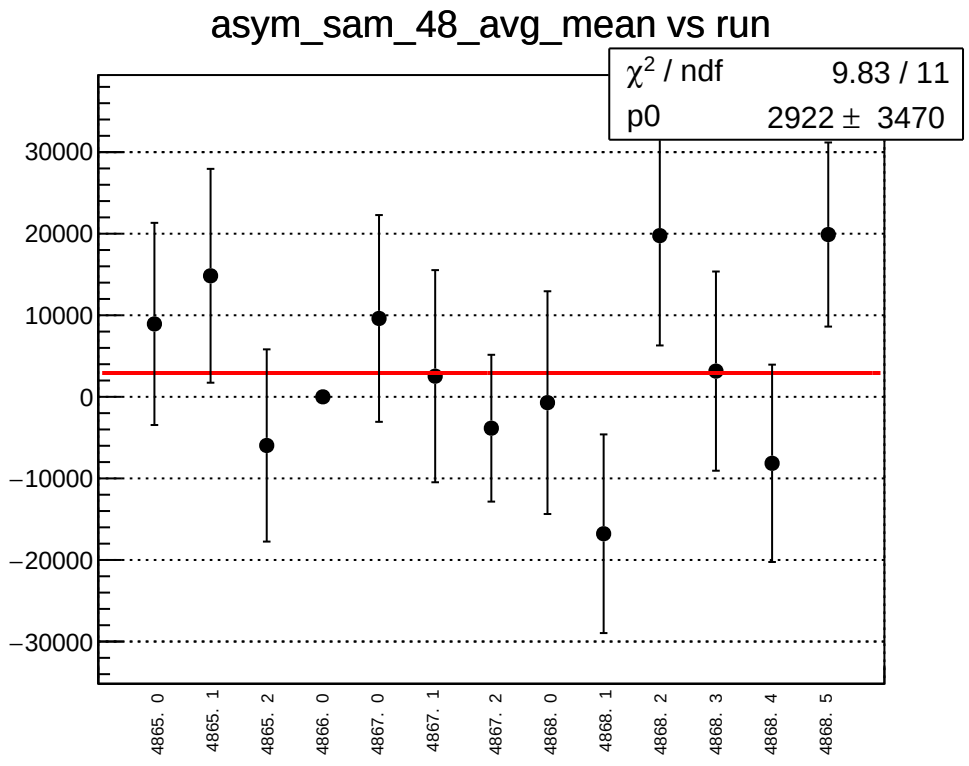
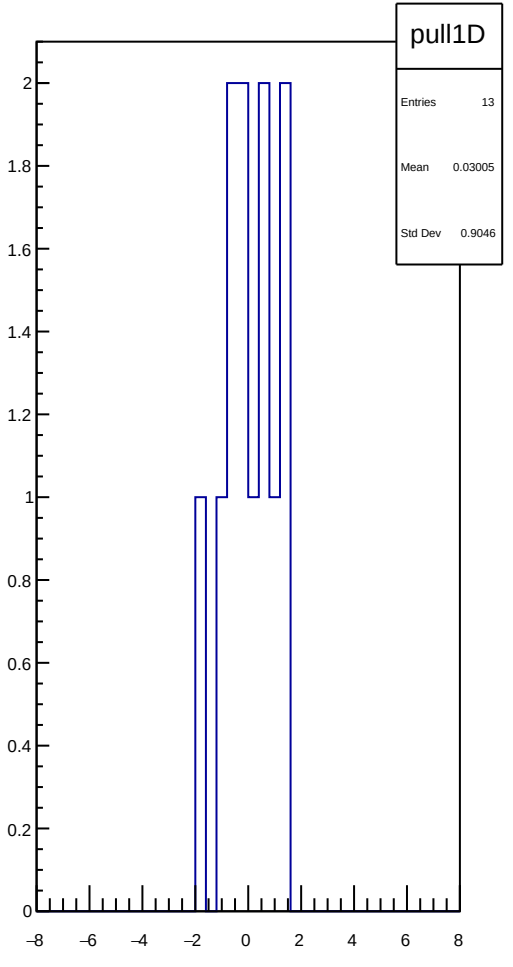
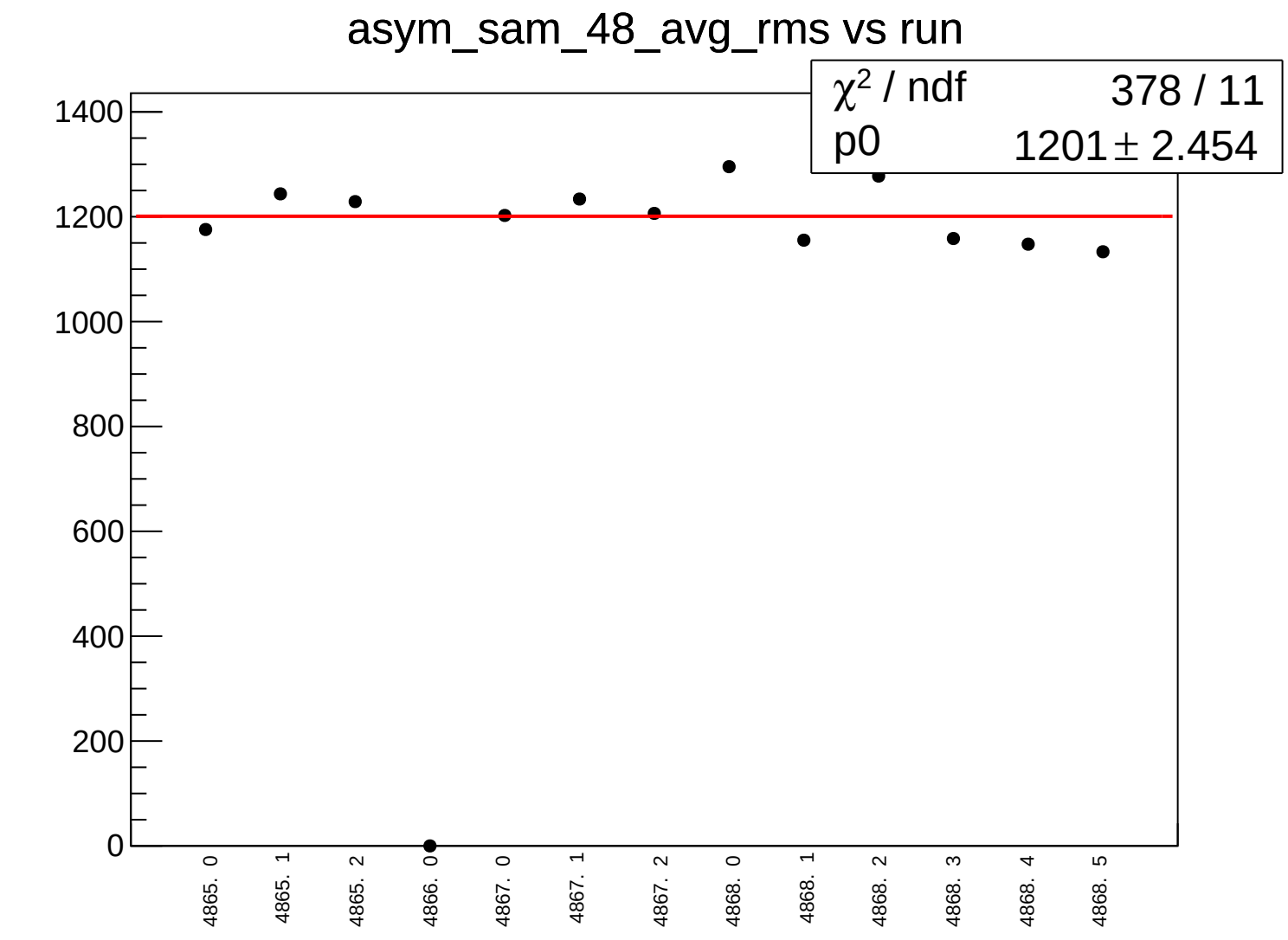
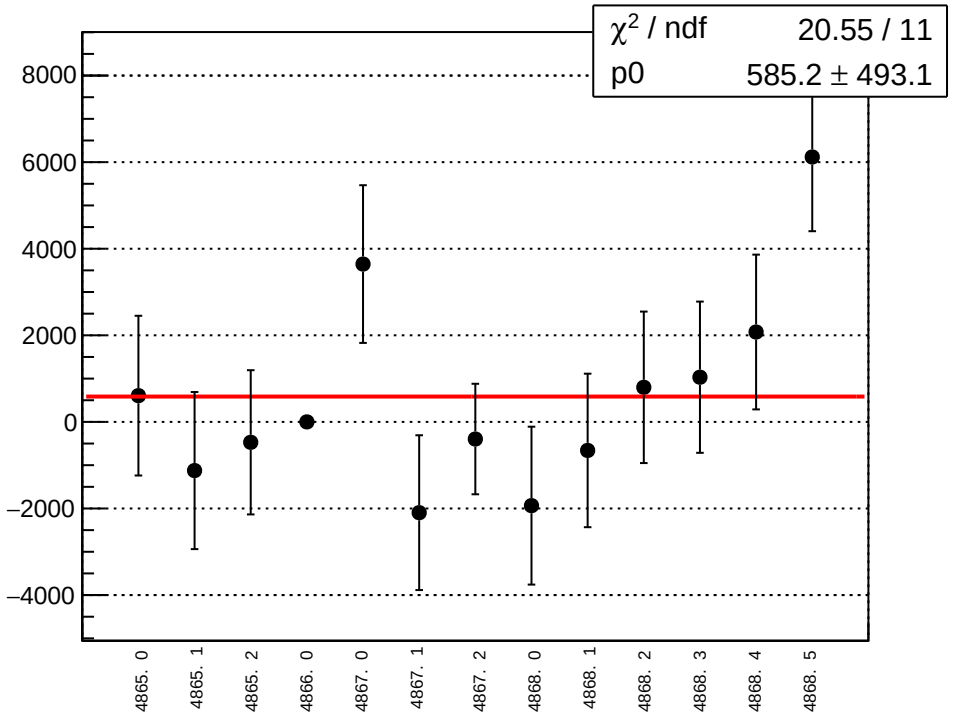
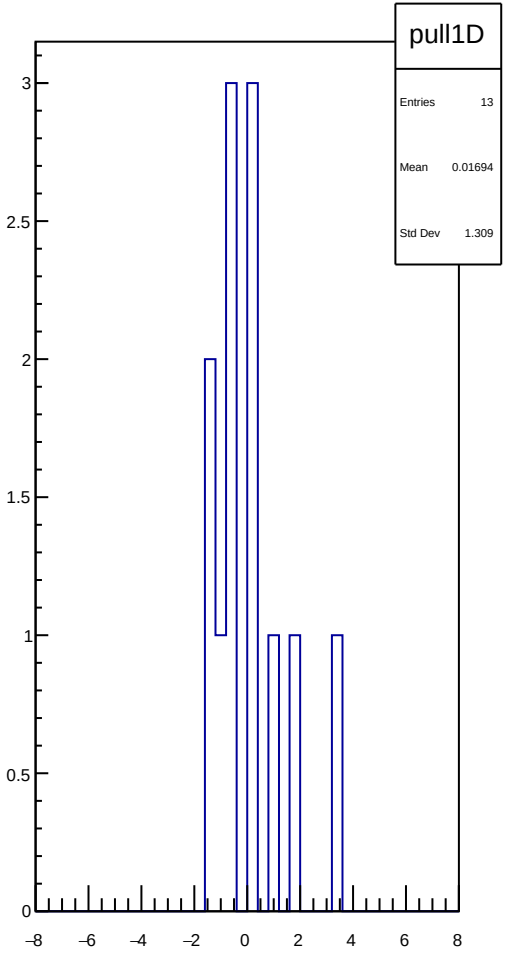
4868. 4
4868. 5

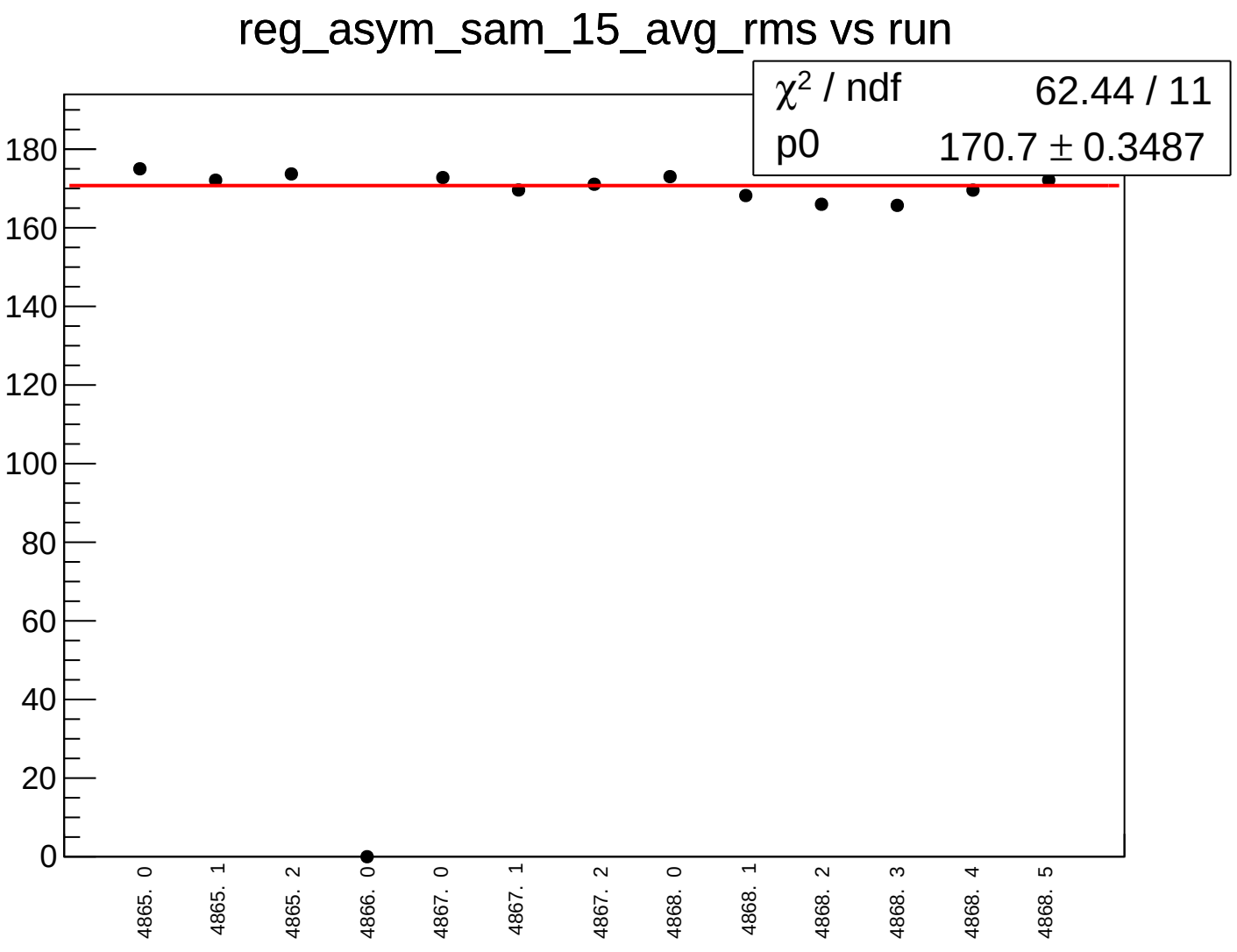

asym_sam_48_avg_mean vs run
χ² / ndf 9.83 / 11
p0 2922 ± 3470
30000
20000
10000
0
−10000
−20000
−30000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

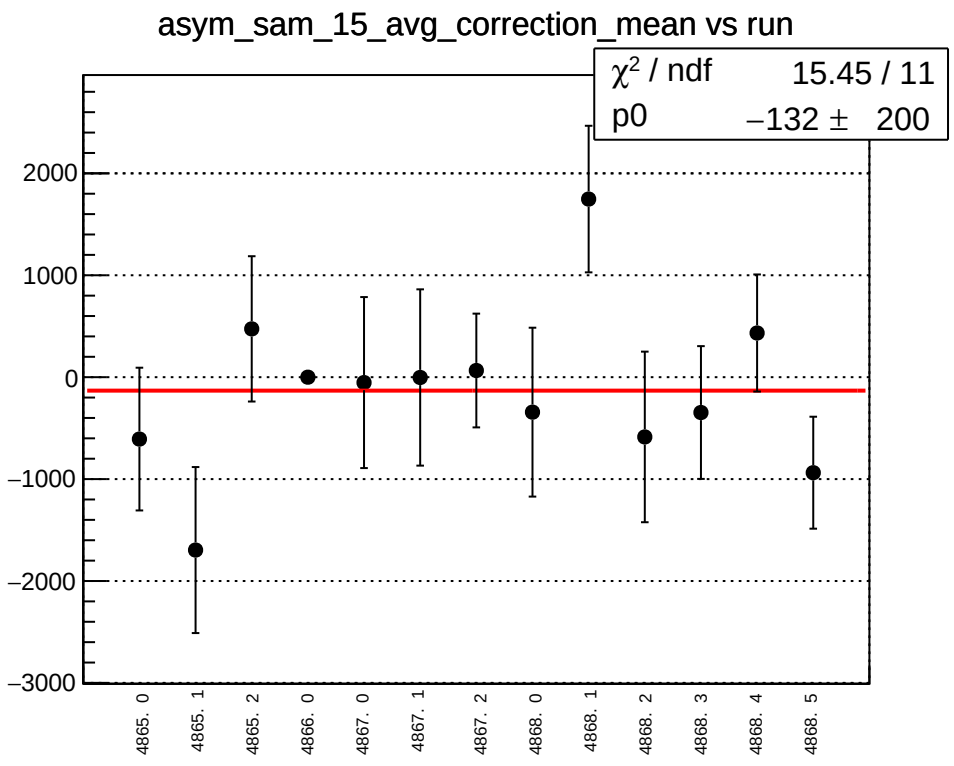

pull1D
Entries 13
Mean 0.03005
Std Dev 0.9046
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

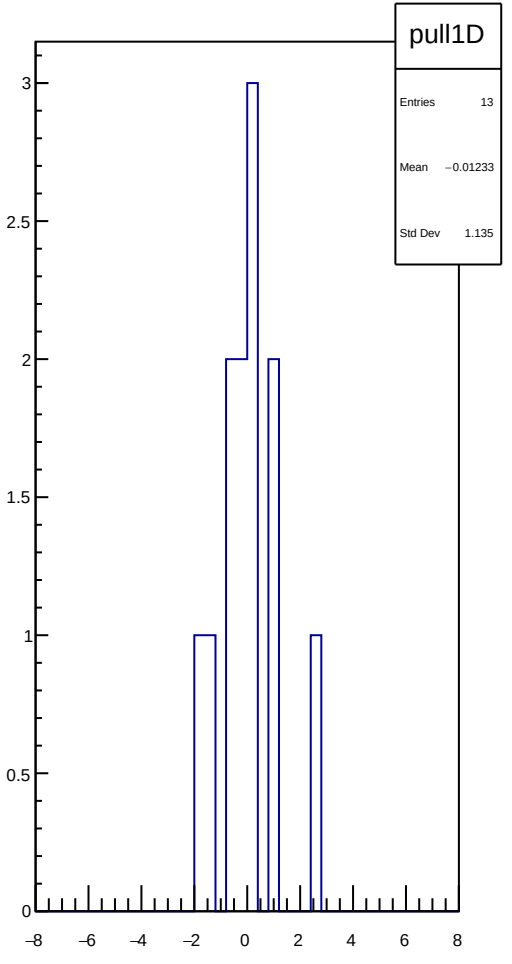

asym_sam_48_avg_rms vs run
χ² / ndf 378 / 11
p0 1201 ± 2.454
1400
1200
1000
800
600
400
200
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

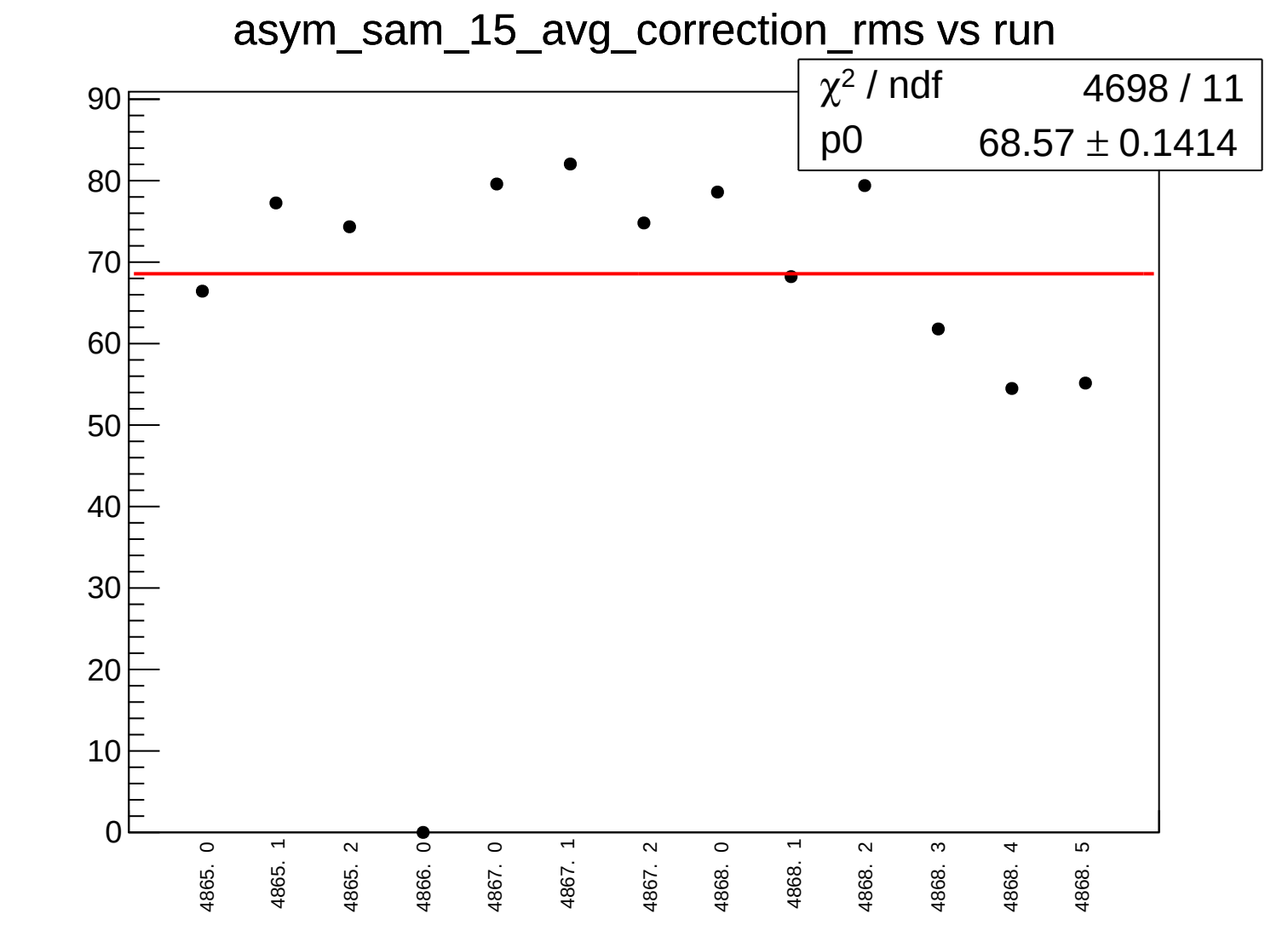

reg_asym_sam_15_avg_mean vs run
χ² / ndf 20.55 / 11
p0 585.2 ± 493.1
8000
6000
4000
2000
0
−2000
−4000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

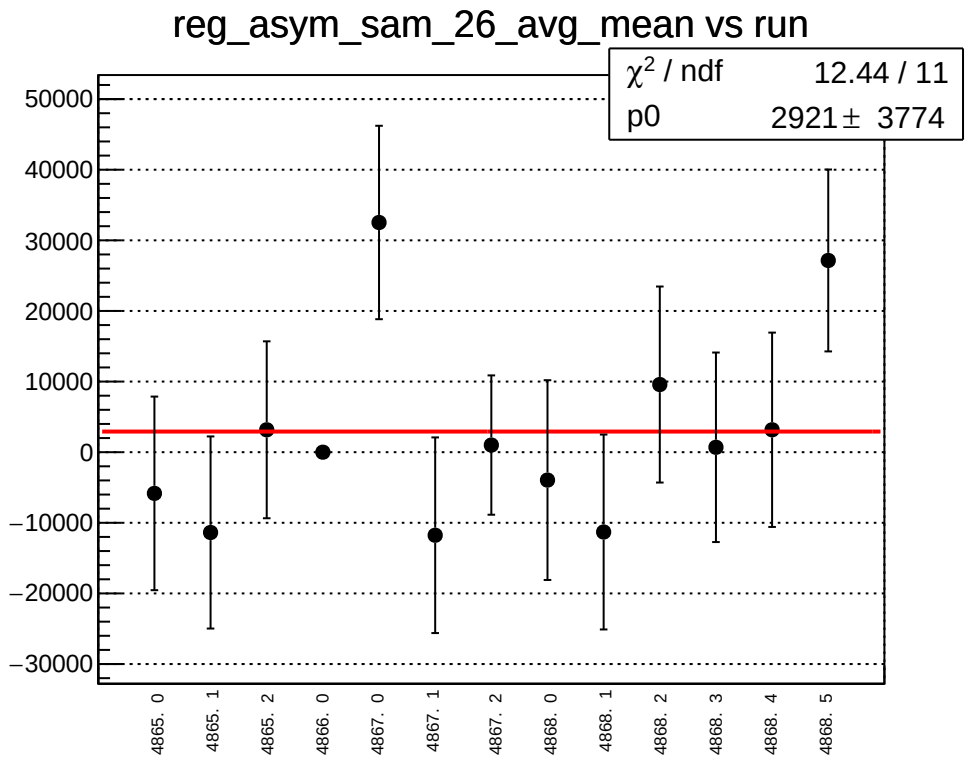

pull1D
Entries 13
Mean 0.01694
Std Dev 1.309
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

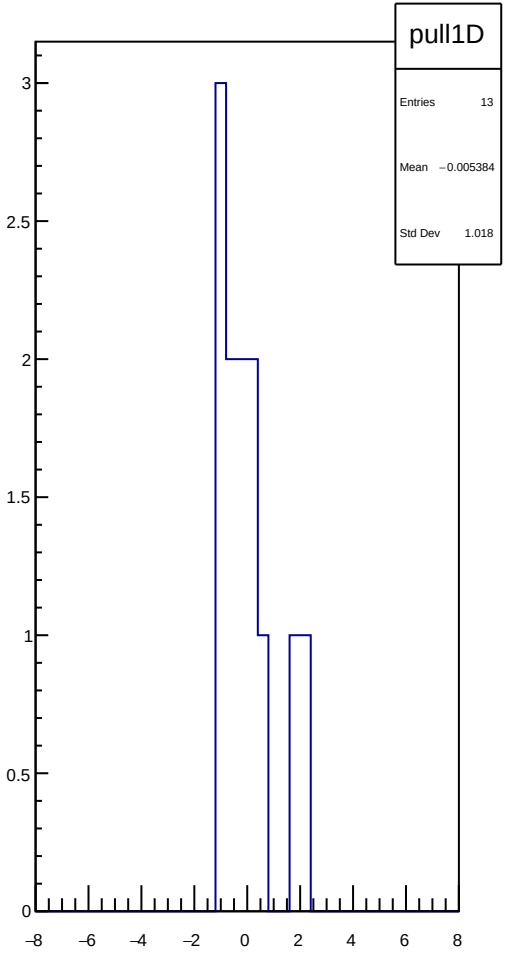

reg_asym_sam_15_avg_rms vs run
χ² / ndf 62.44 / 11
p0 170.7 ± 0.3487
180
160
140
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

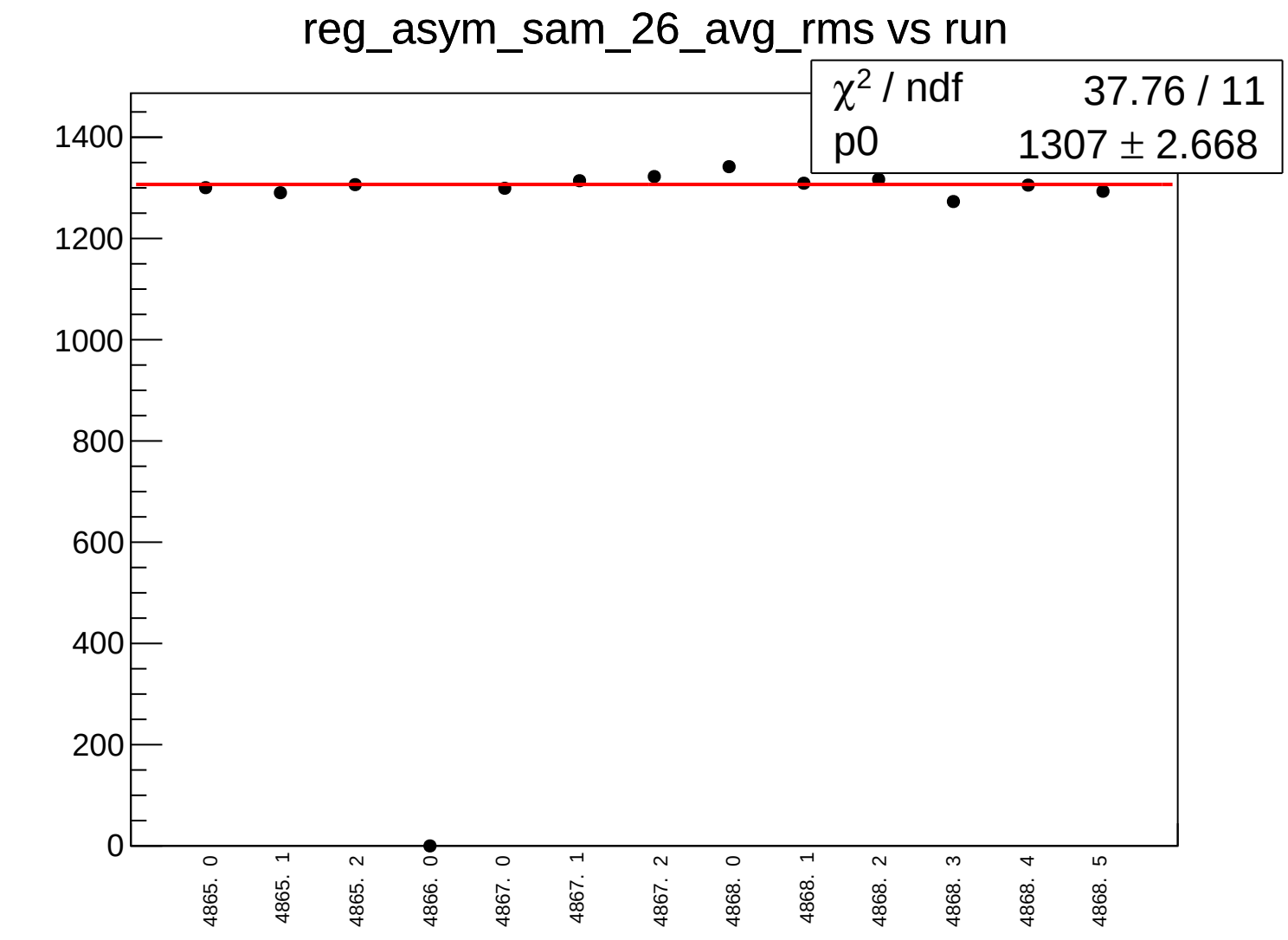

asym_sam_15_avg_correction_mean vs run
χ² / ndf 15.45 / 11
p0 −132 ± 200
2000
1000
0
−1000
−2000
−3000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

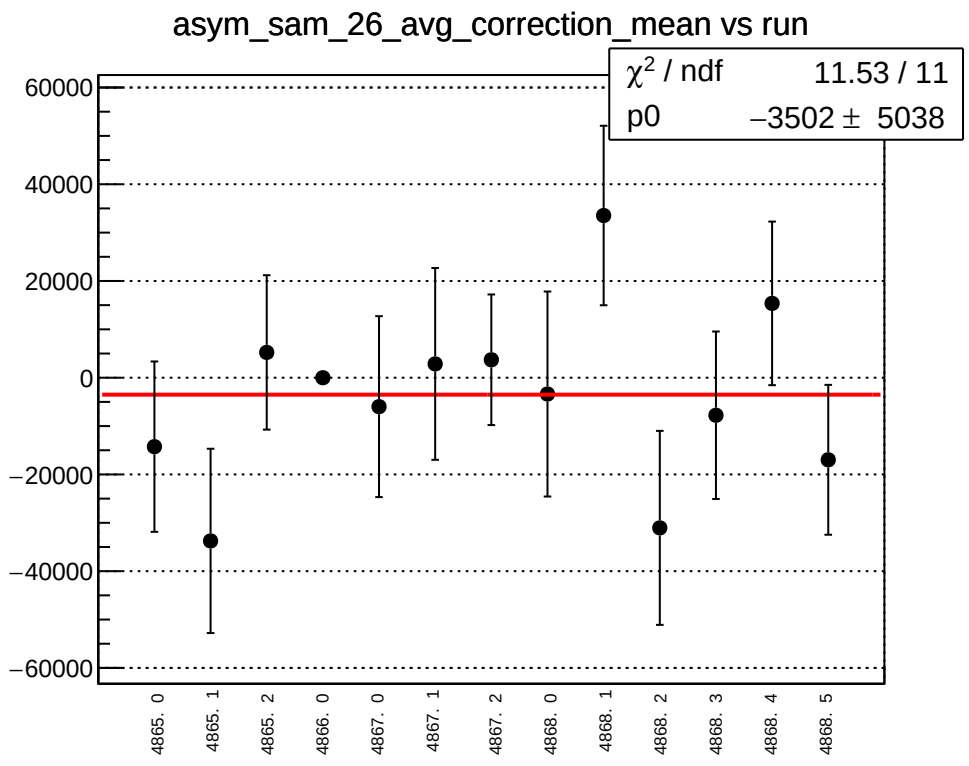

pull1D
Entries 13
Mean −0.01233
Std Dev 1.135
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

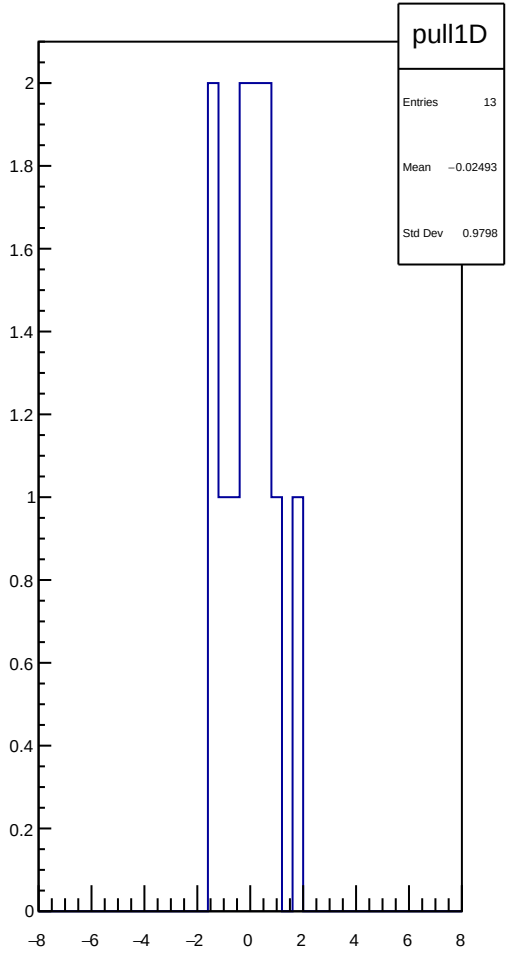

asym_sam_15_avg_correction_rms vs run
χ² / ndf 4698 / 11
p0 68.57 ± 0.1414
90
80
70
60
50
40
30
20
10
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

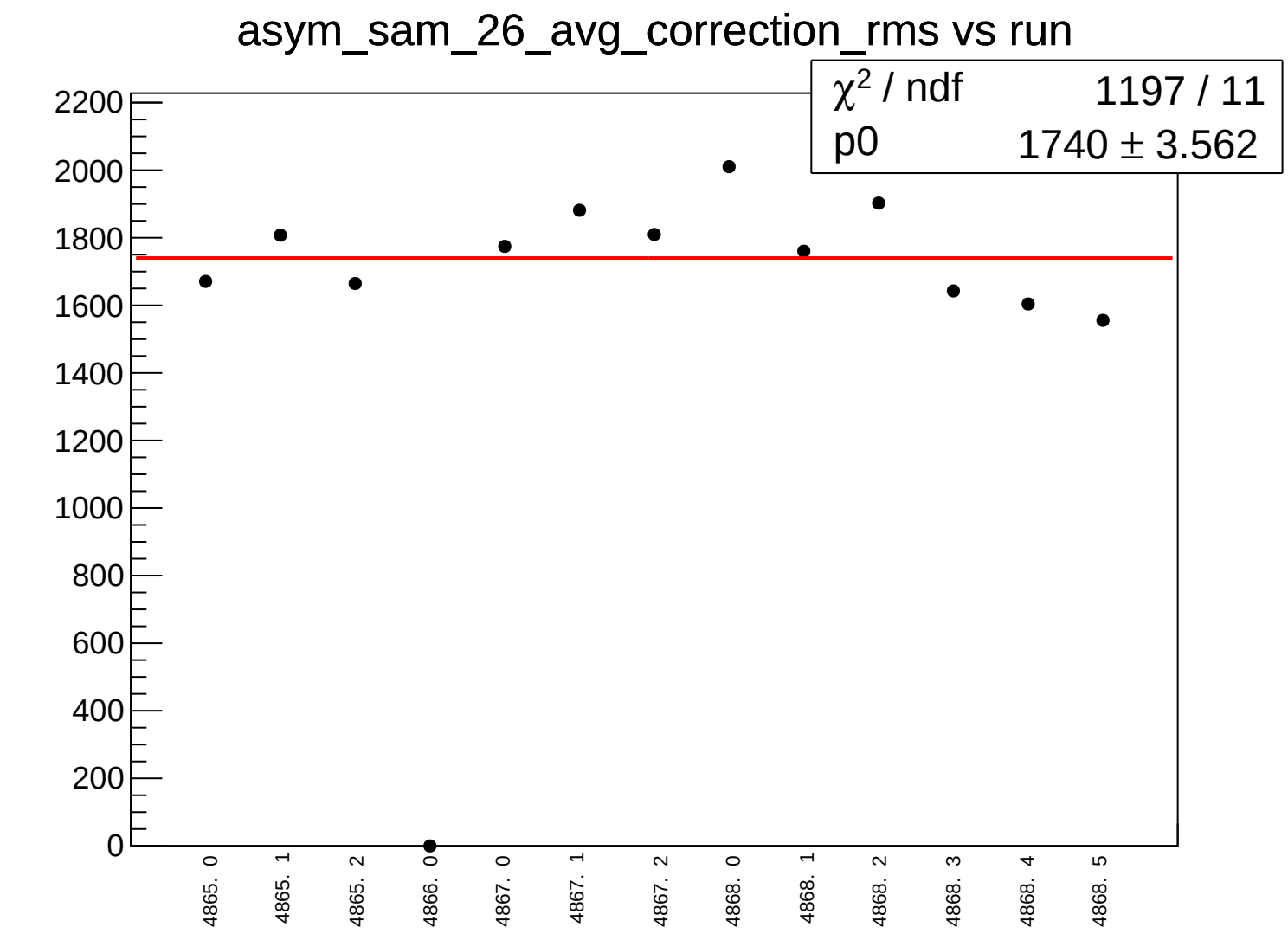

reg_asym_sam_26_avg_mean vs run
χ² / ndf 12.44 / 11
p0 2921 ± 3774
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

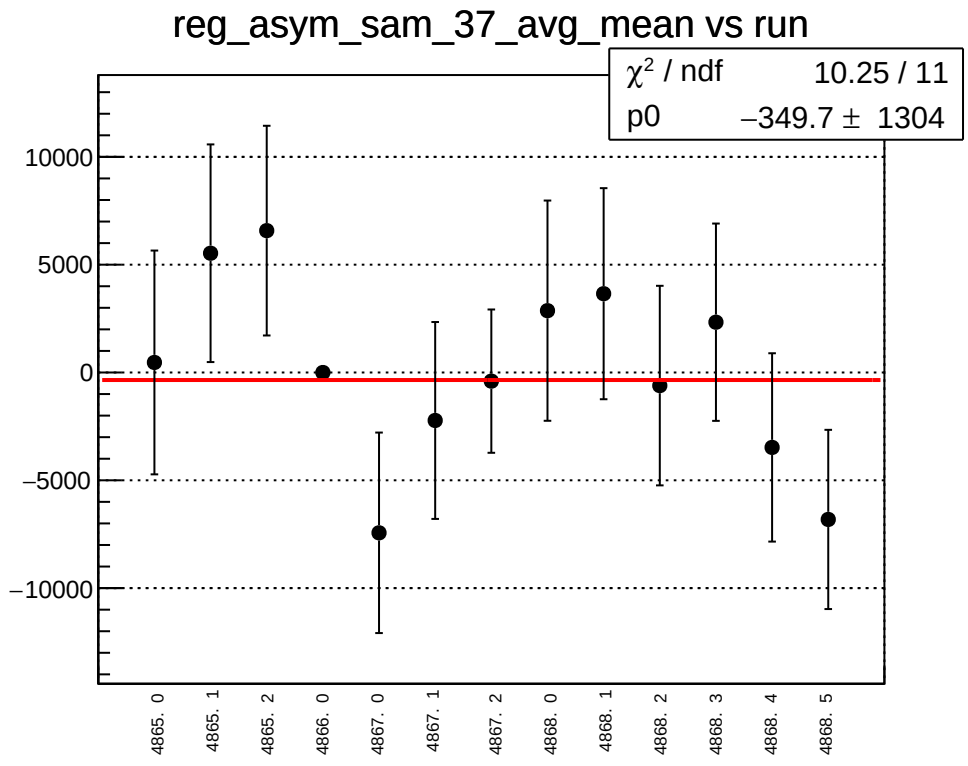

pull1D
Entries 13
Mean −0.005384
Std Dev 1.018
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

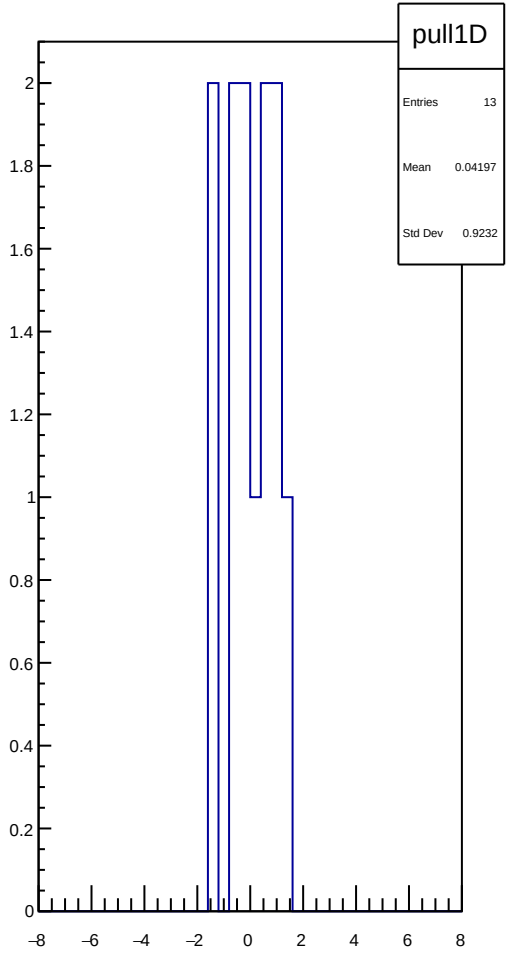

reg_asym_sam_26_avg_rms vs run
χ² / ndf 37.76 / 11
p0 1307 ± 2.668
1400
1200
1000
800
600
400
200
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

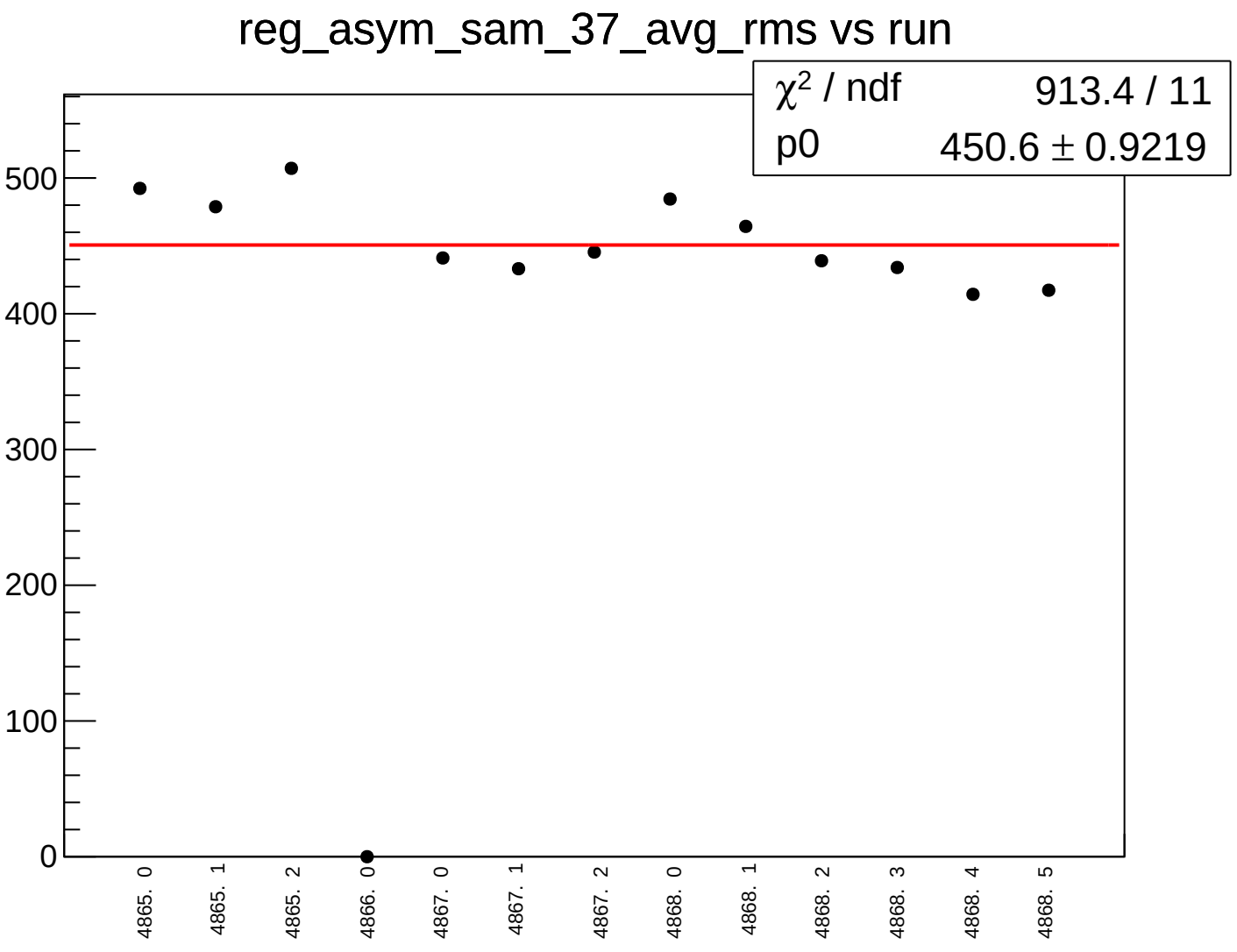

asym_sam_26_avg_correction_mean vs run
χ² / ndf 11.53 / 11
p0 −3502 ± 5038
60000
40000
20000
0
−20000
−40000
−60000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

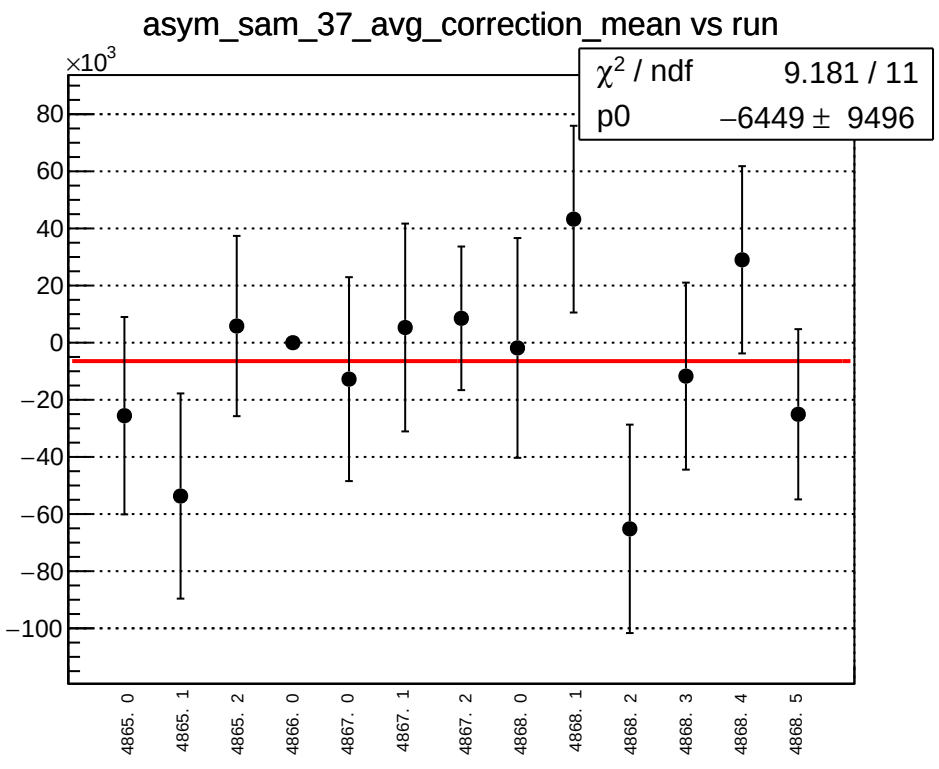

pull1D
Entries 13
Mean −0.02493
Std Dev 0.9798
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

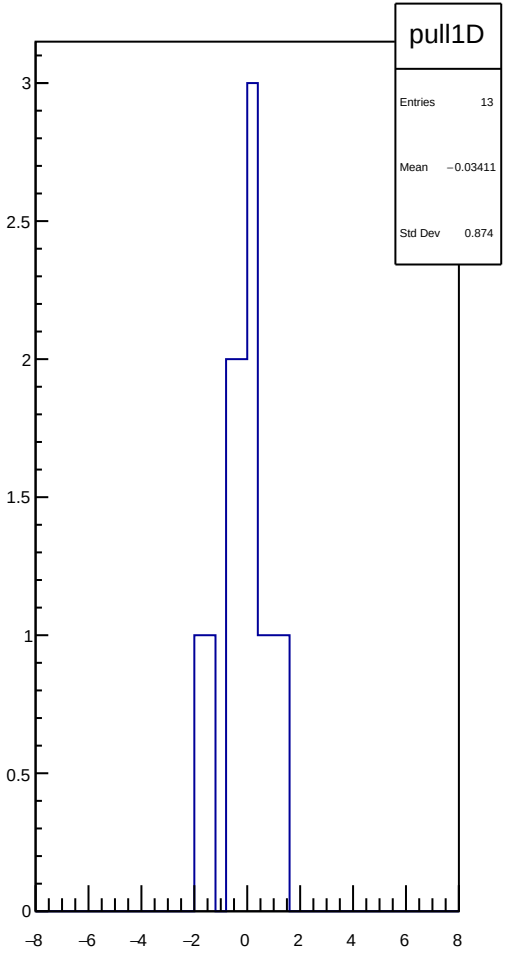

asym_sam_26_avg_correction_rms vs run
χ² / ndf 1197 / 11
p0 1740 ± 3.562
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

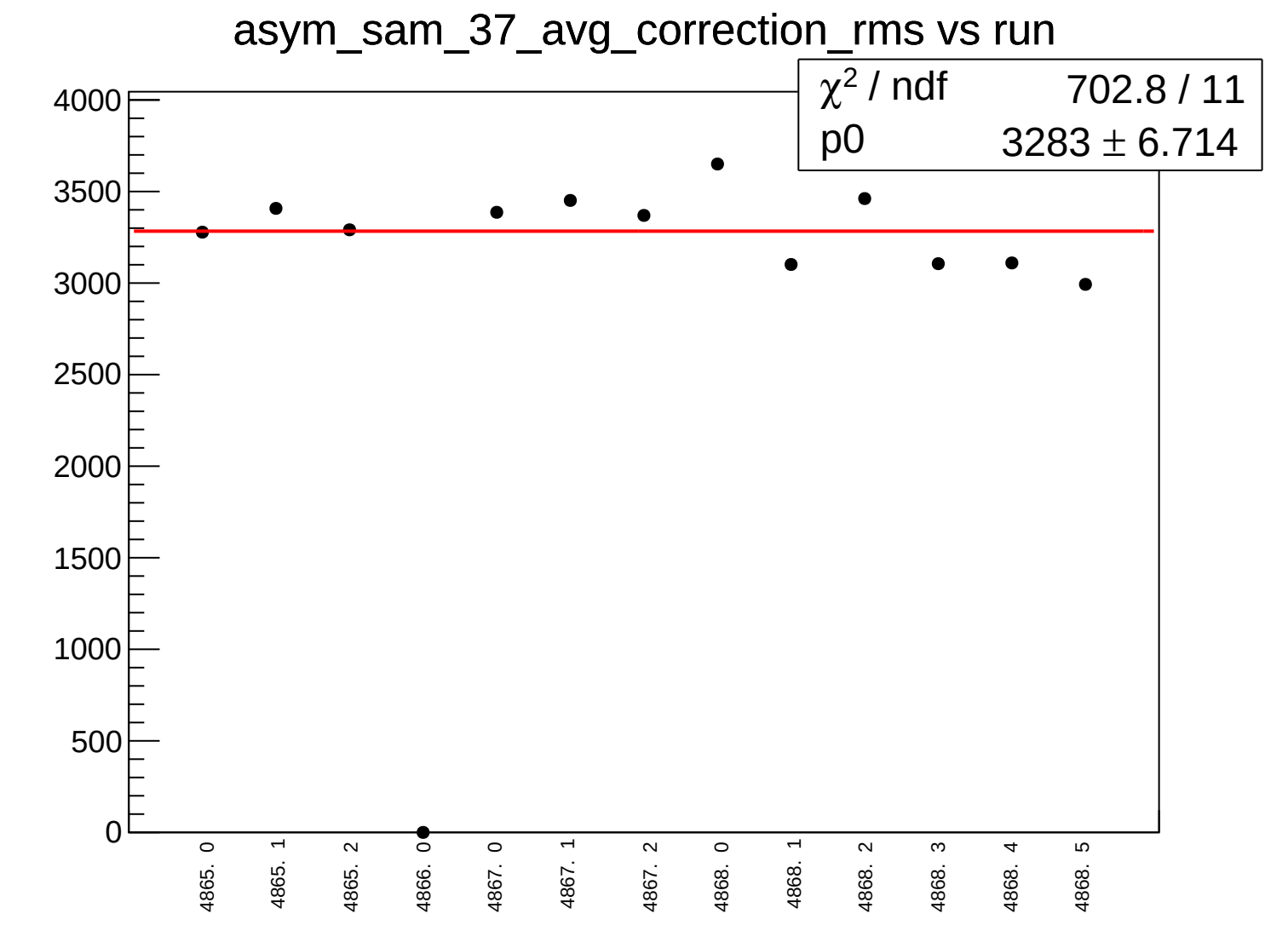

reg_asym_sam_37_avg_mean vs run
χ² / ndf 10.25 / 11
p0 −349.7 ± 1304
10000
5000
0
−5000
−10000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

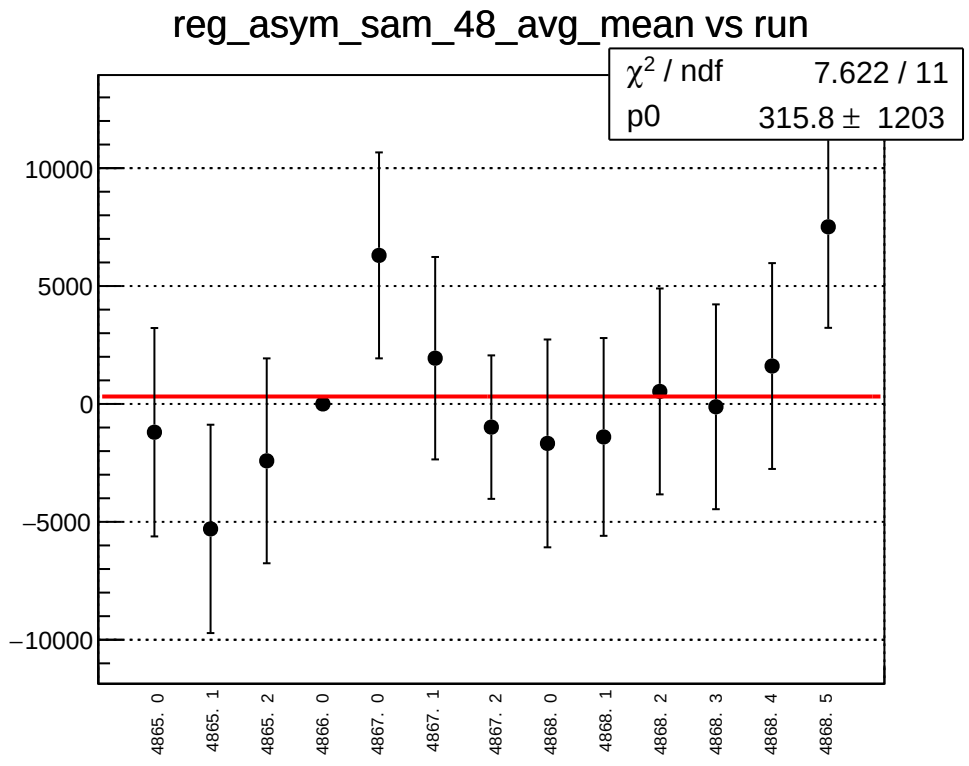

pull1D
Entries 13
Mean 0.04197
Std Dev 0.9232
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

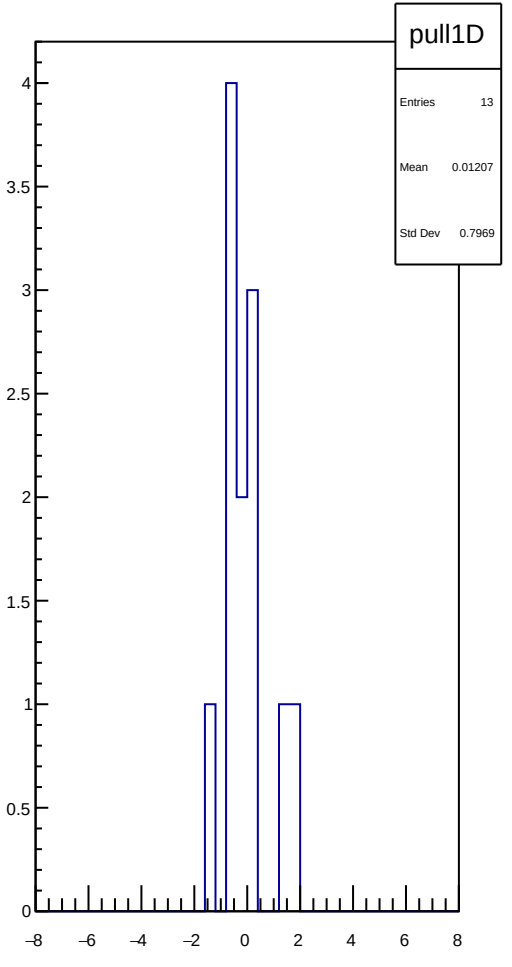

reg_asym_sam_37_avg_rms vs run
χ² / ndf 913.4 / 11
p0 450.6 ± 0.9219
500
400
300
200
100
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

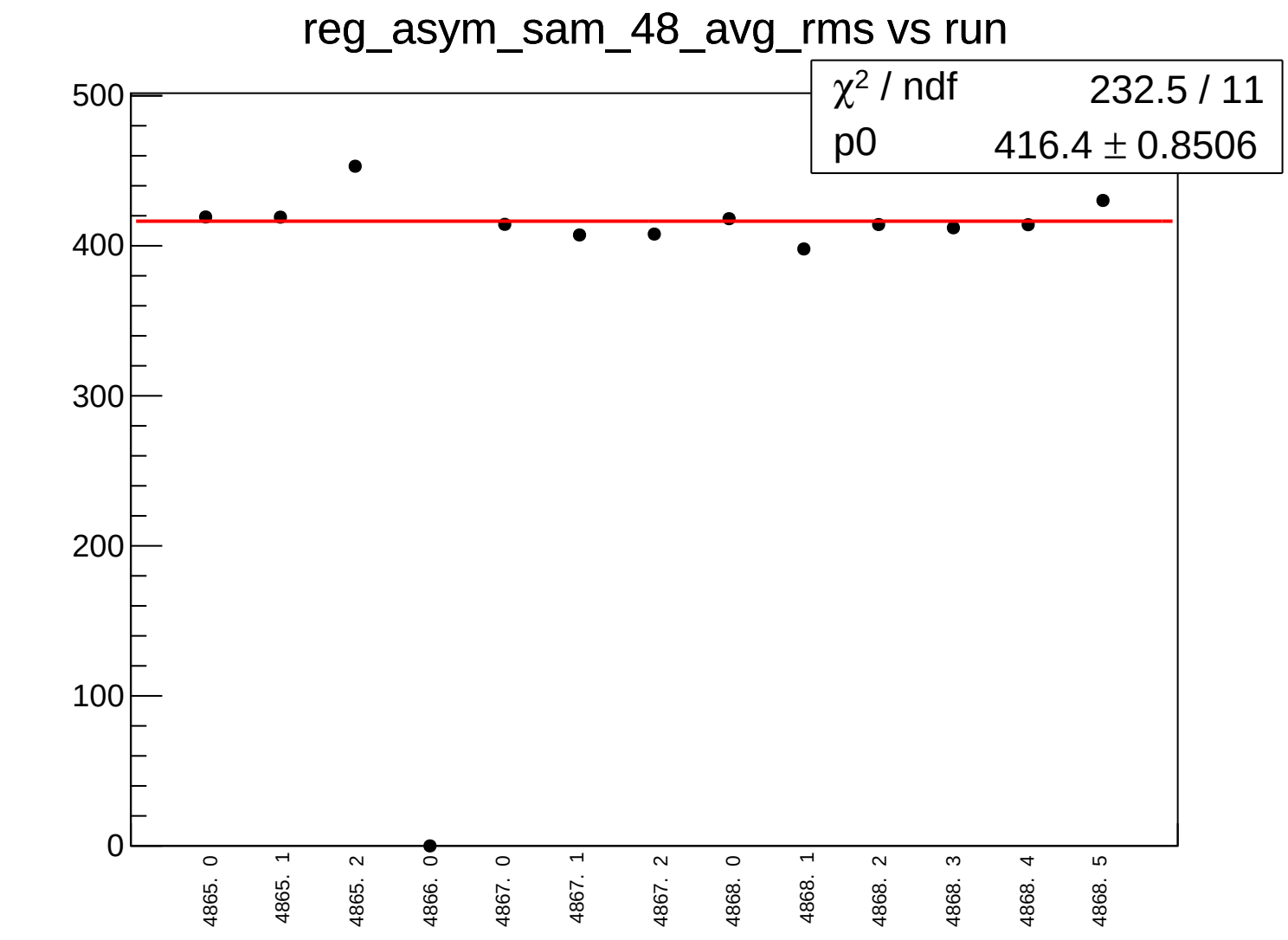

asym_sam_37_avg_correction_mean vs run
×10^3
χ^2 / ndf 9.181 / 11
p0 −6449 ± 9496
80
60
40
20
0
−20
−40
−60
−80
−100
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

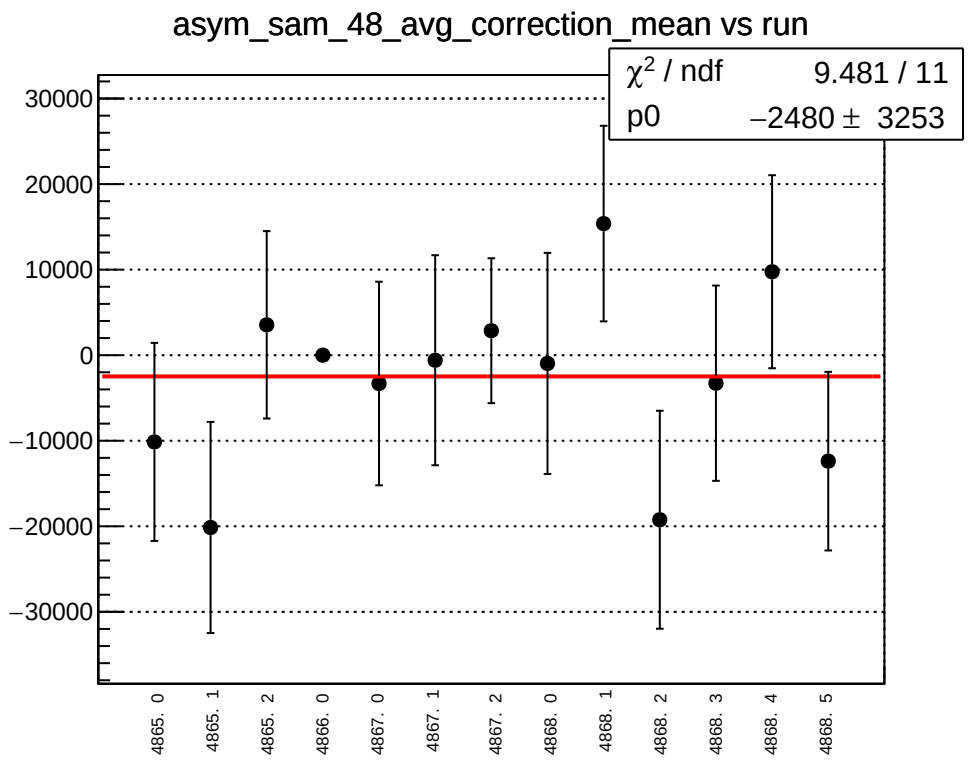

pull1D
Entries 13
Mean −0.03411
Std Dev 0.874
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

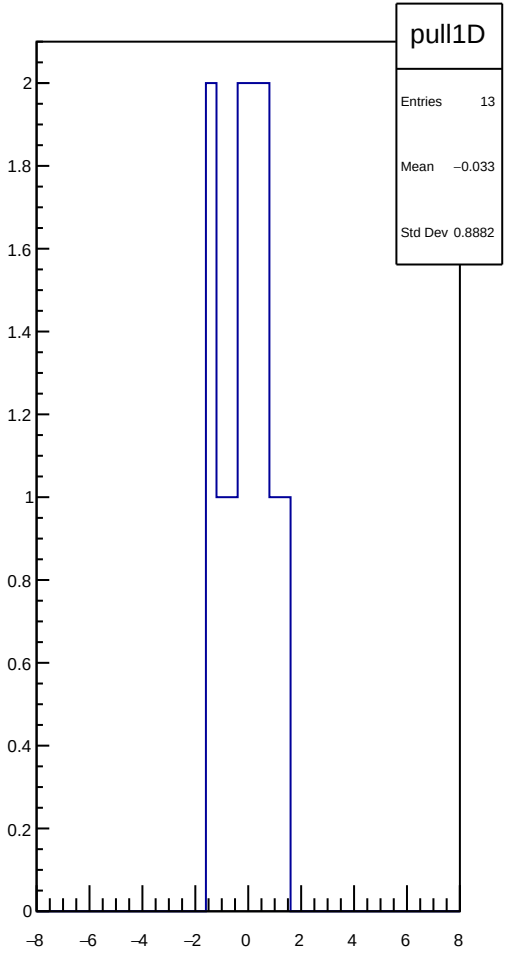

asym_sam_37_avg_correction_rms vs run
χ² / ndf 702.8 / 11
p0 3283 ± 6.714
4000
3500
3000
2500
2000
1500
1000
500
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

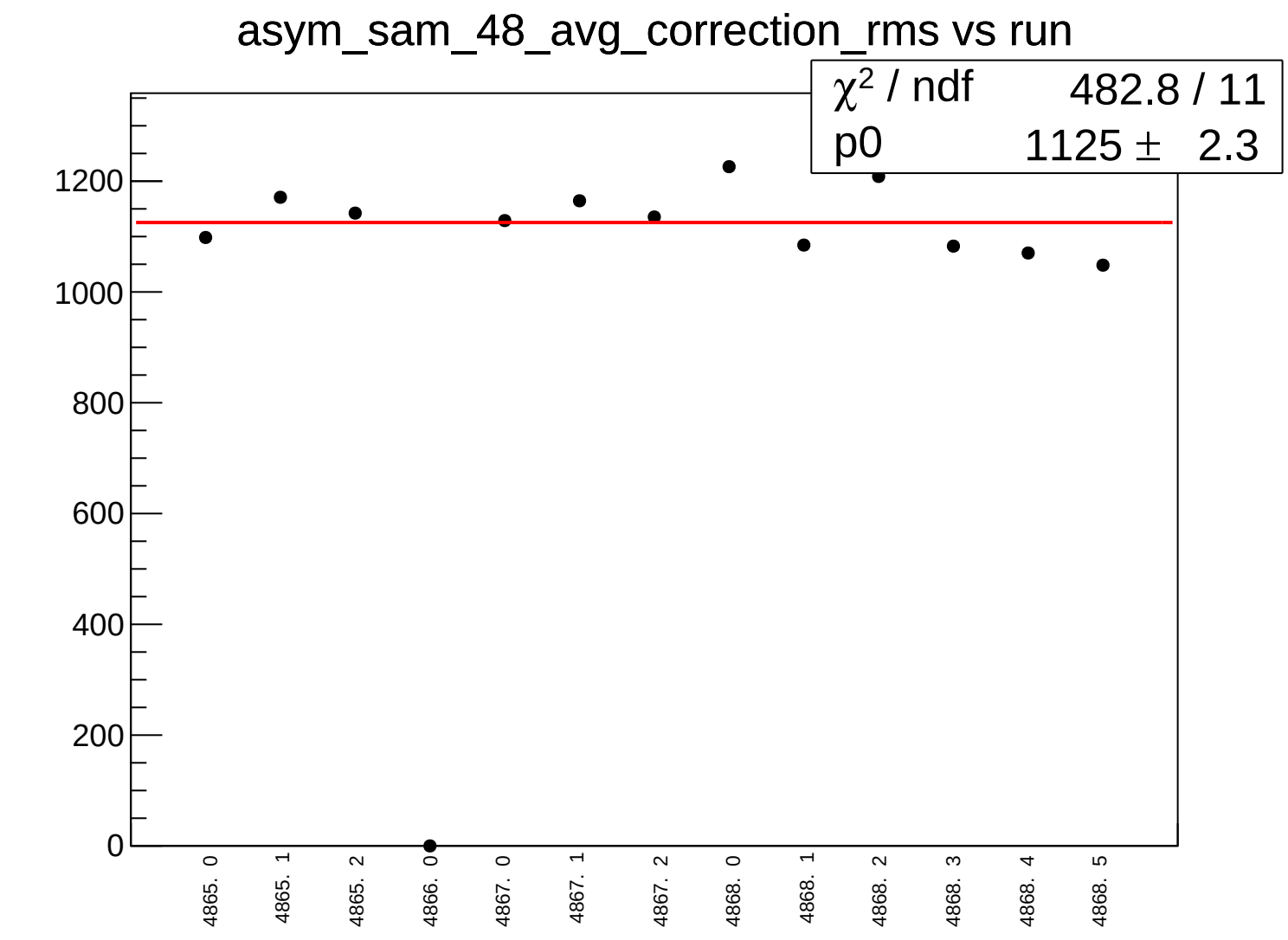

reg_asym_sam_48_avg_mean vs run
χ² / ndf 7.622 / 11
p0 315.8 ± 1203
10000
5000
0
−5000
−10000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

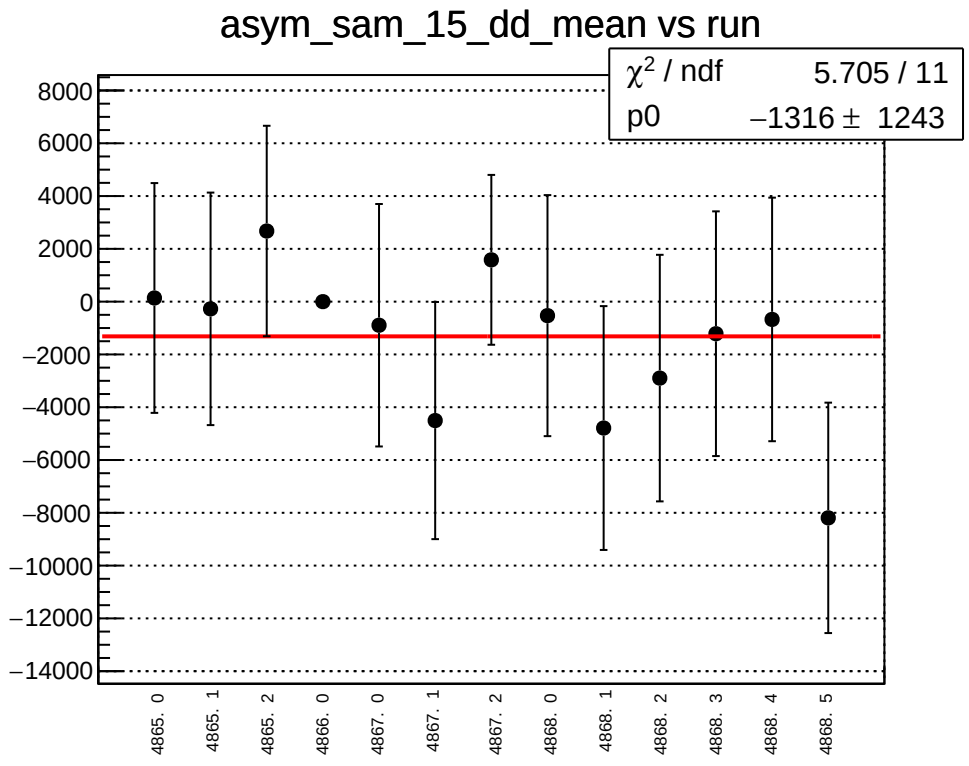

pull1D
Entries 13
Mean 0.01207
Std Dev 0.7969
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

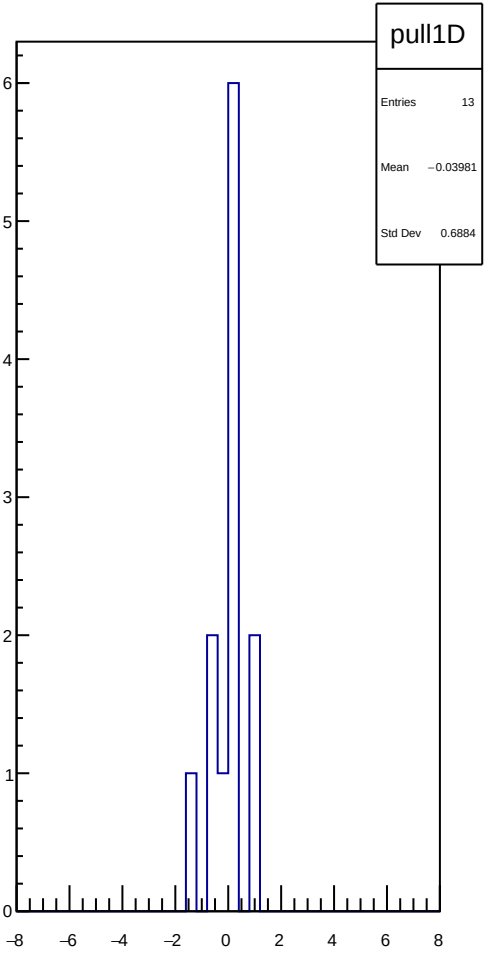

reg_asym_sam_48_avg_rms vs run
χ² / ndf 232.5 / 11
p0 416.4 ± 0.8506
500
400
300
200
100
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

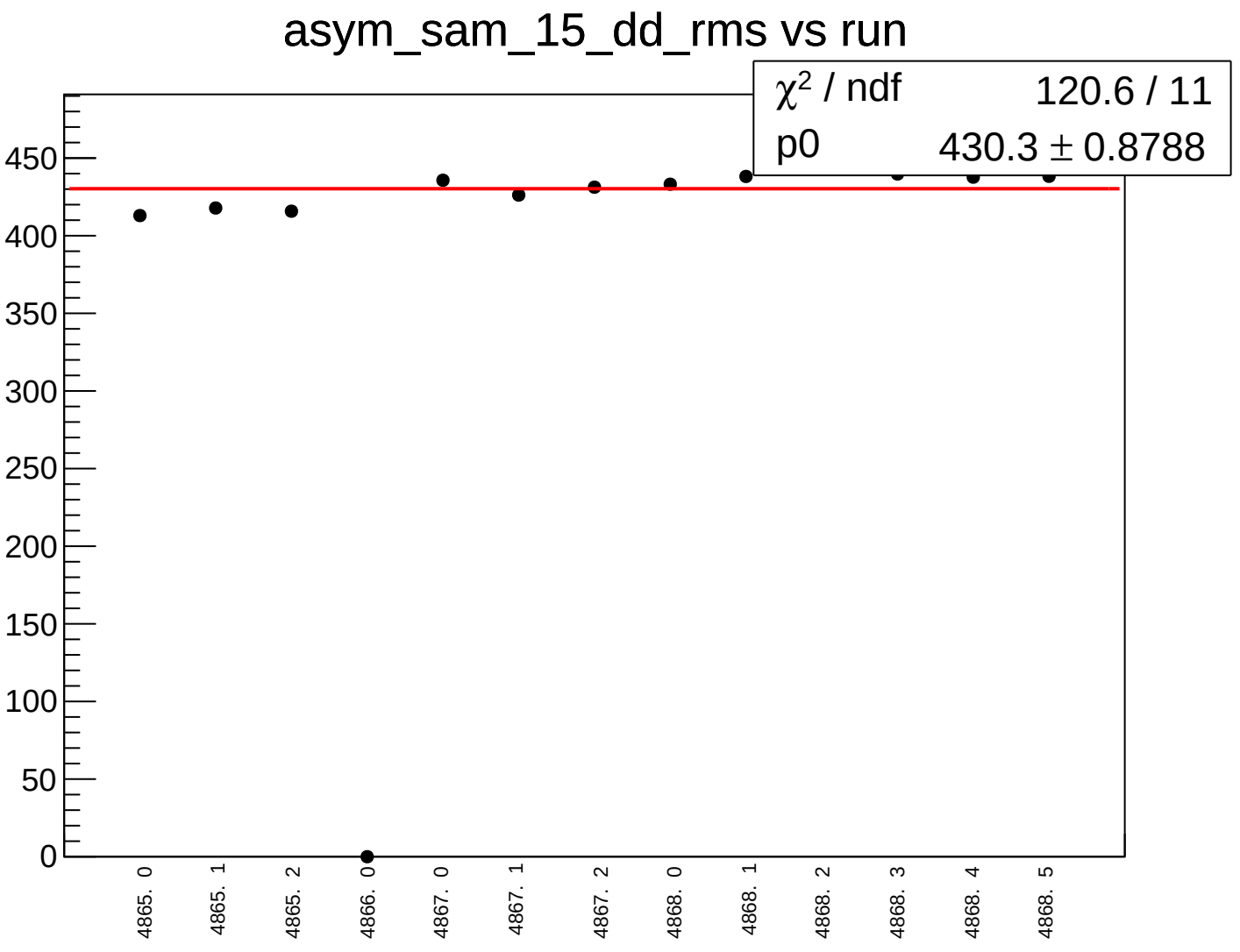

asym_sam_48_avg_correction_mean vs run
χ² / ndf 9.481 / 11
p0 −2480 ± 3253
30000
20000
10000
0
−10000
−20000
−30000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.033
Std Dev 0.8882
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_48_avg_correction_rms vs run
χ² / ndf 482.8 / 11
p0 1125 ± 2.3
1200
1000
800
600
400
200
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_sam_15_dd_mean vs run
χ² / ndf 5.705 / 11
p0 −1316 ± 1243
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
−14000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.03981
Std Dev 0.6884
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 120.6 / 11
p0 430.3 ± 0.8788
450
400
350
300
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
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4867. 1
4867. 2
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4868. 2
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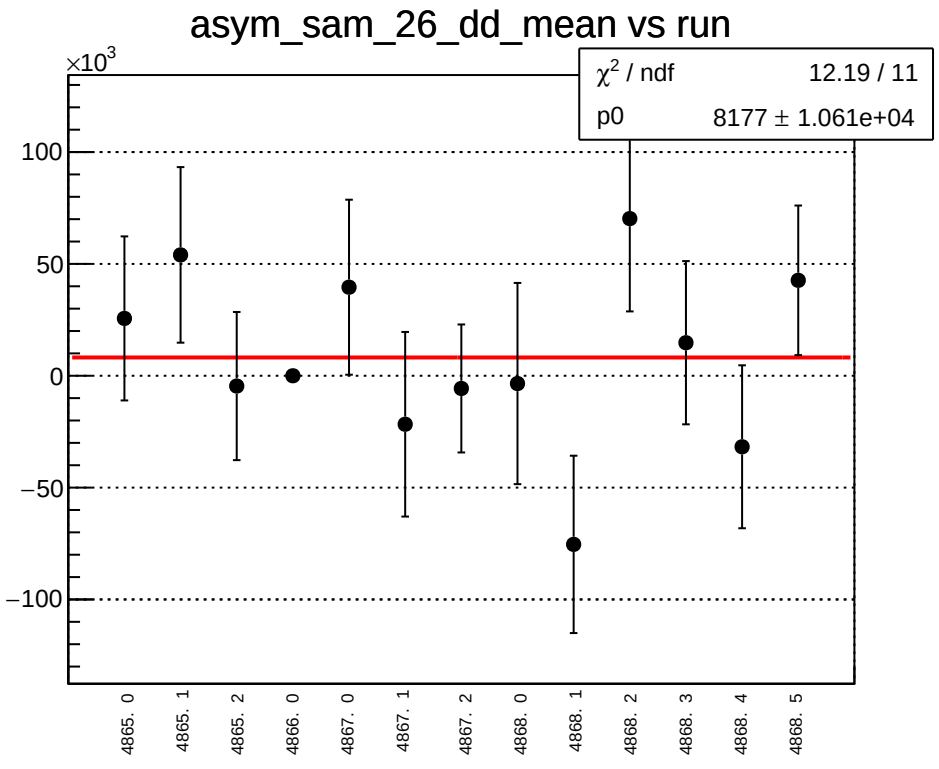
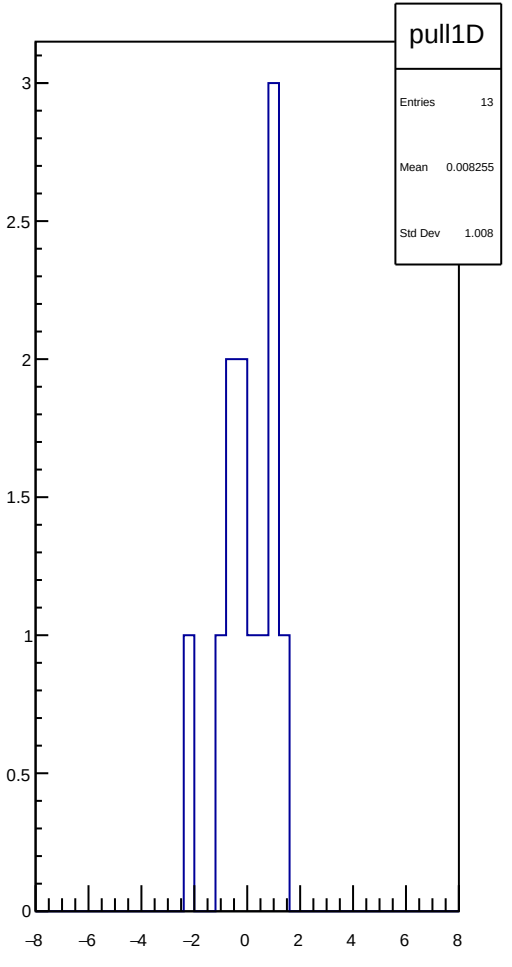
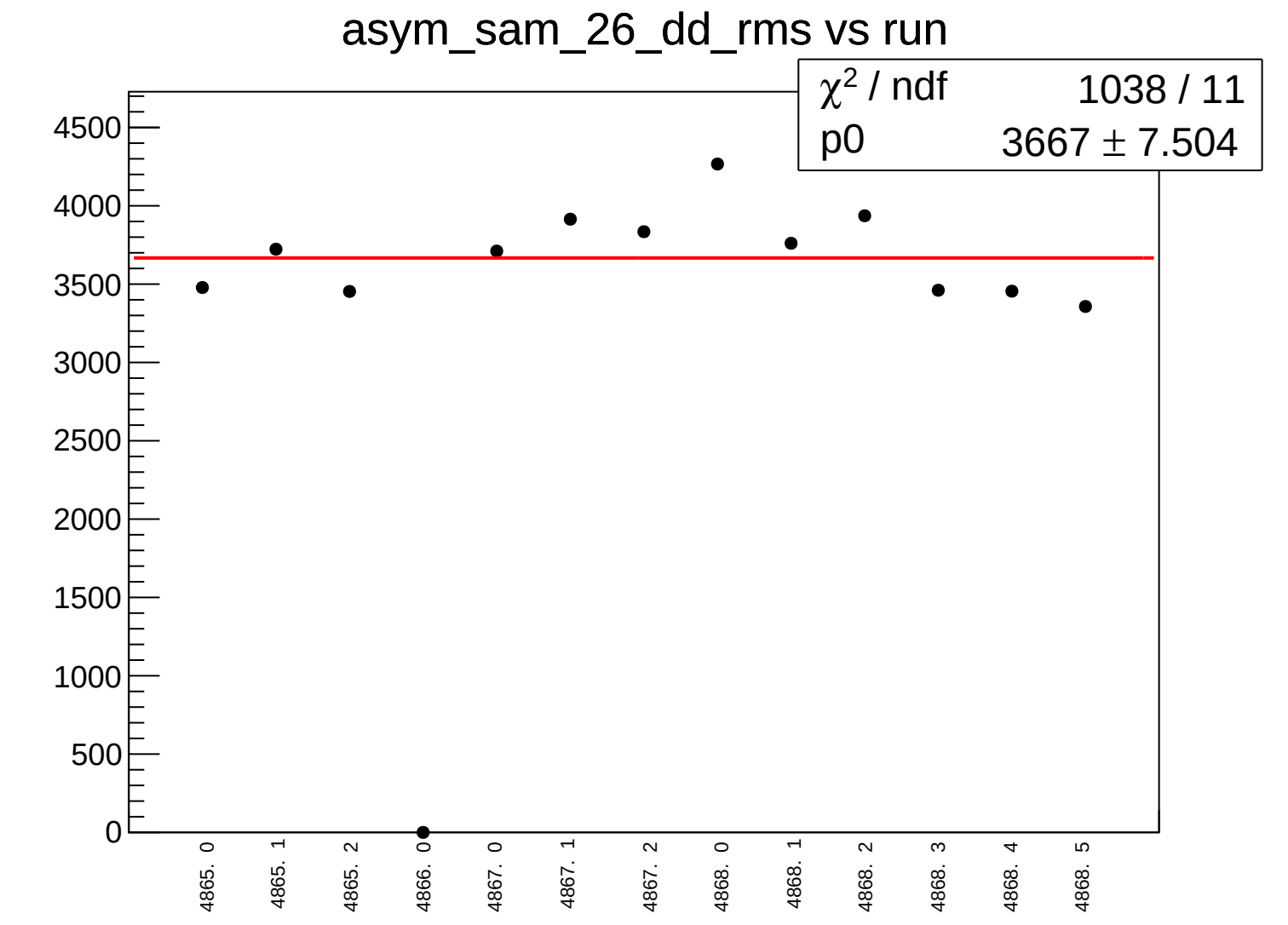
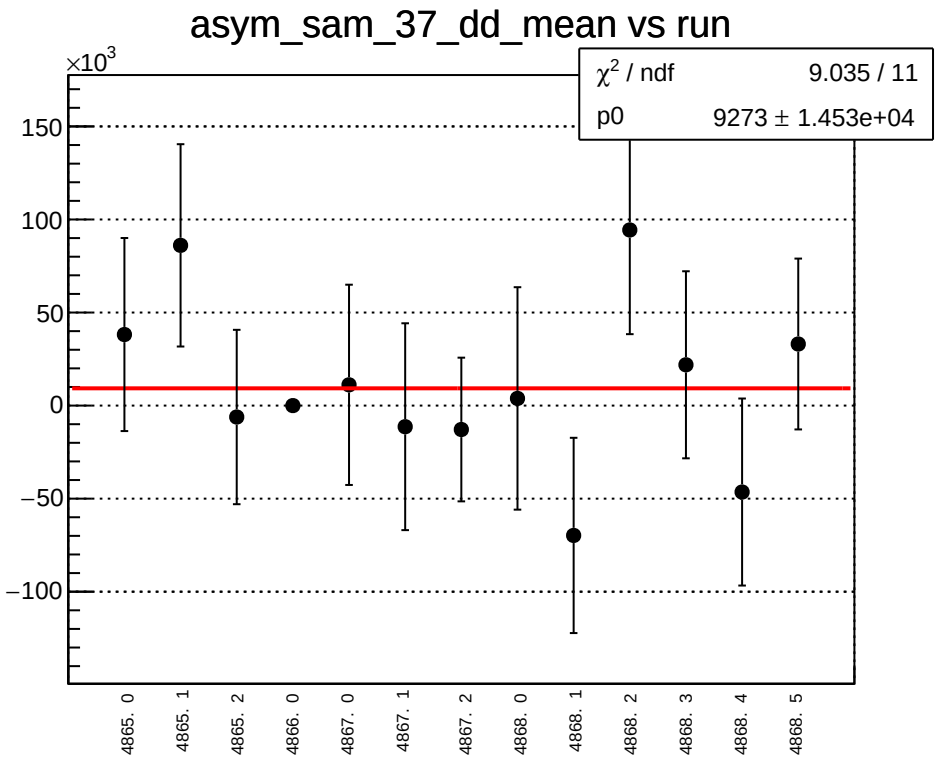
4868. 4
4868. 5


asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 12.19 / 11
p0 8177 ± 1.061e+04
100
50
0
−50
−100
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.008255
Std Dev 1.008
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_dd_rms vs run
χ² / ndf 1038 / 11
p0 3667 ± 7.504
4500
4000
3500
3000
2500
2000
1500
1000
500
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_sam_37_dd_mean vs run
×10^3
χ² / ndf 9.035 / 11
p0 9273 ± 1.453e+04
150
100
50
0
−50
−100
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
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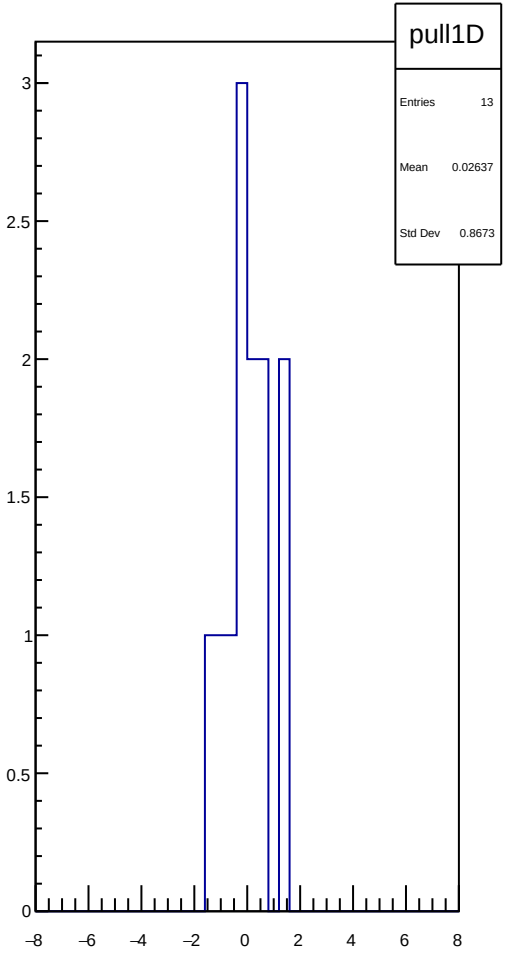
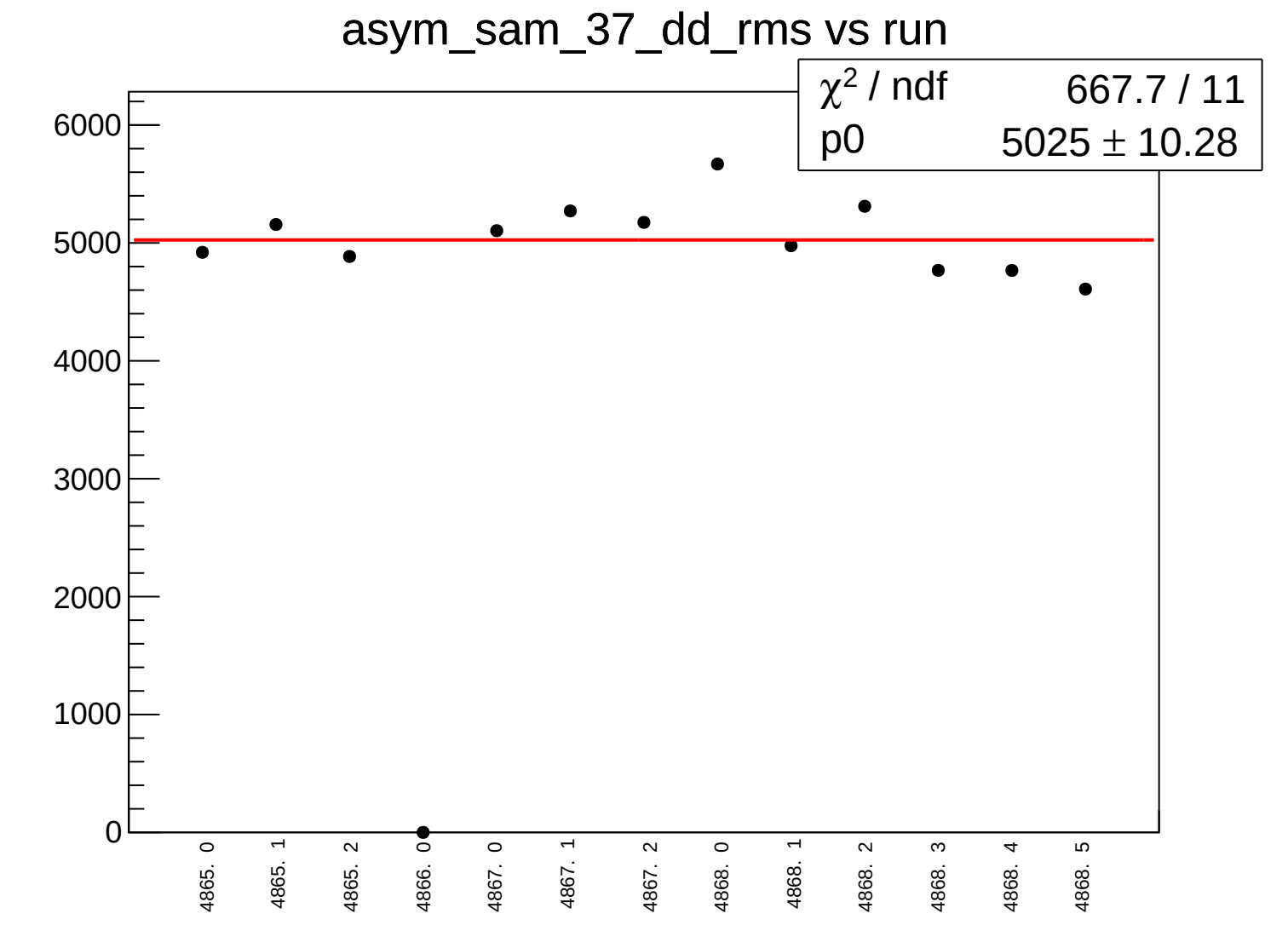
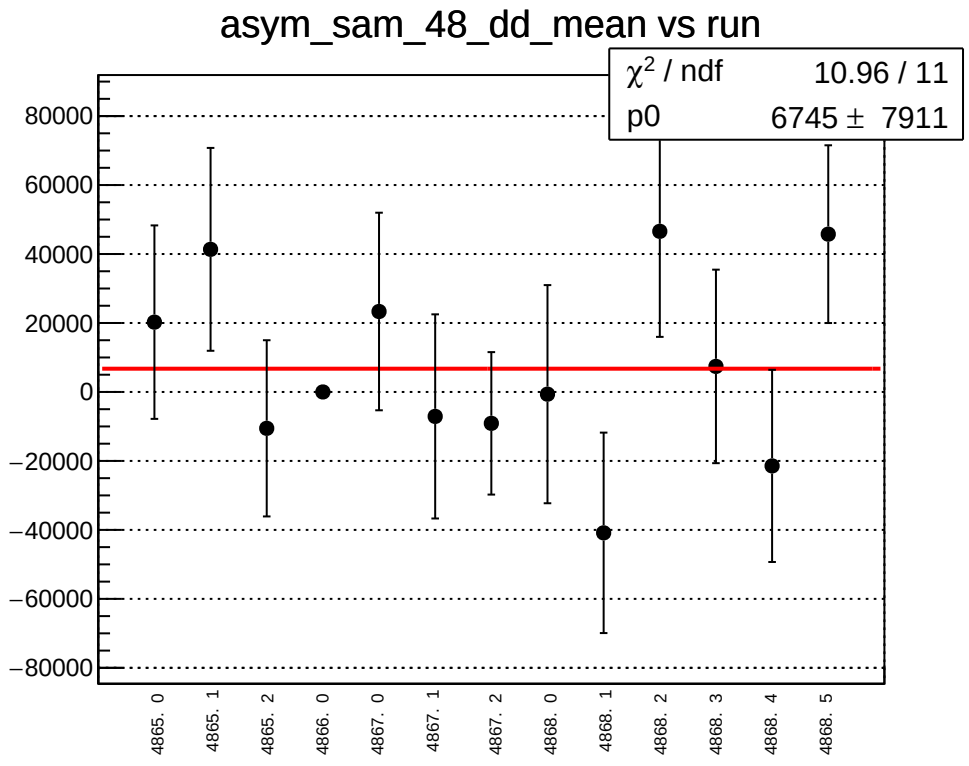
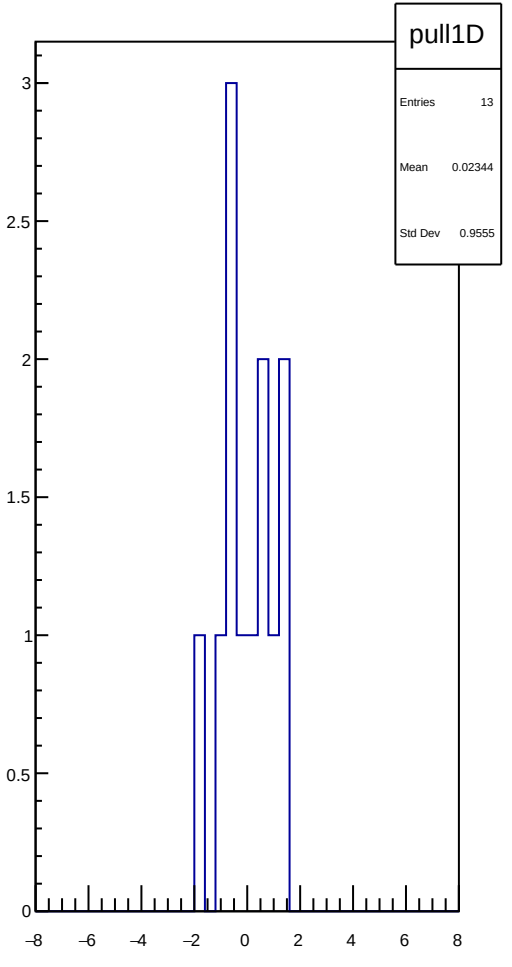
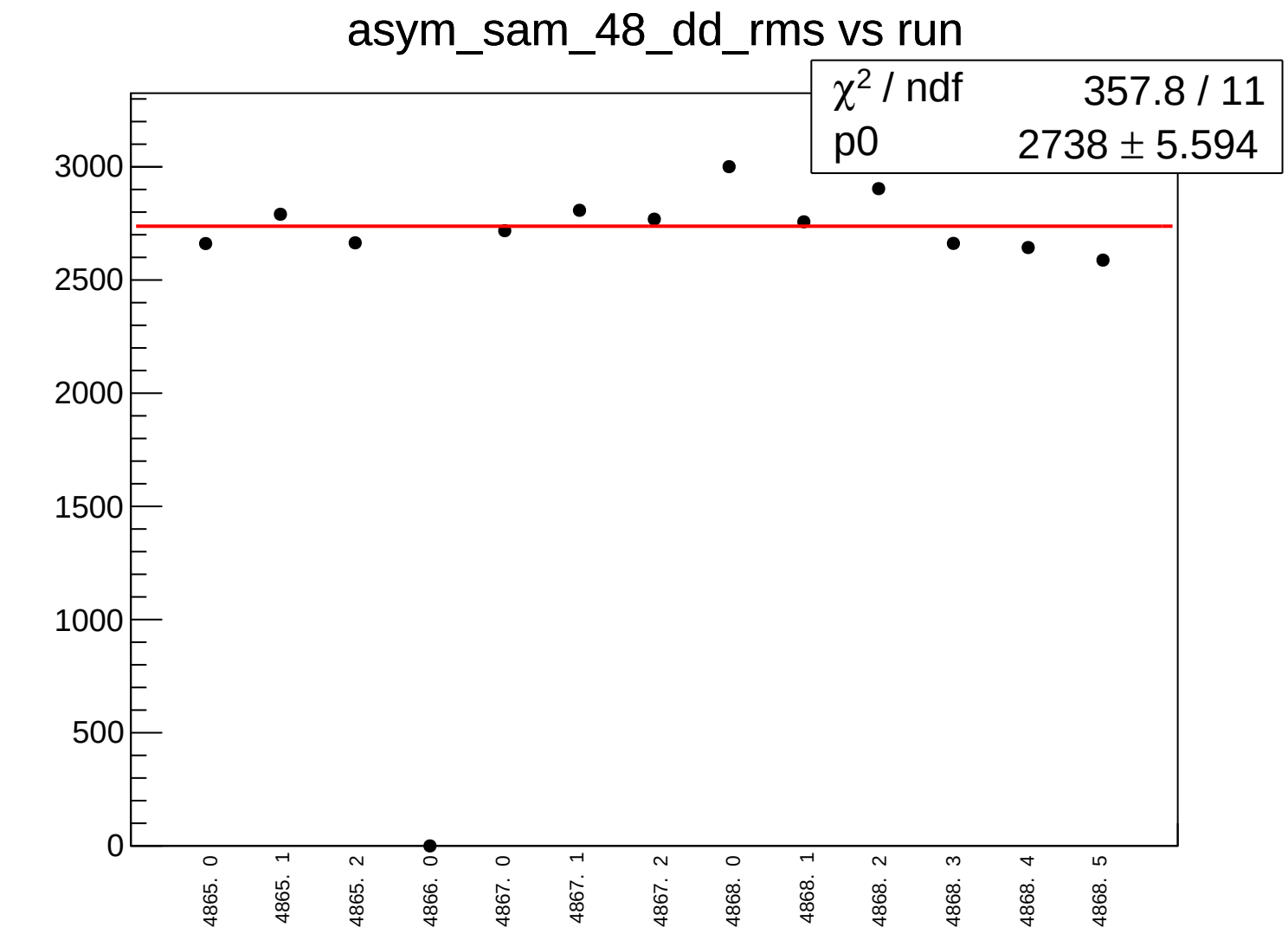
4868. 4
4868. 5

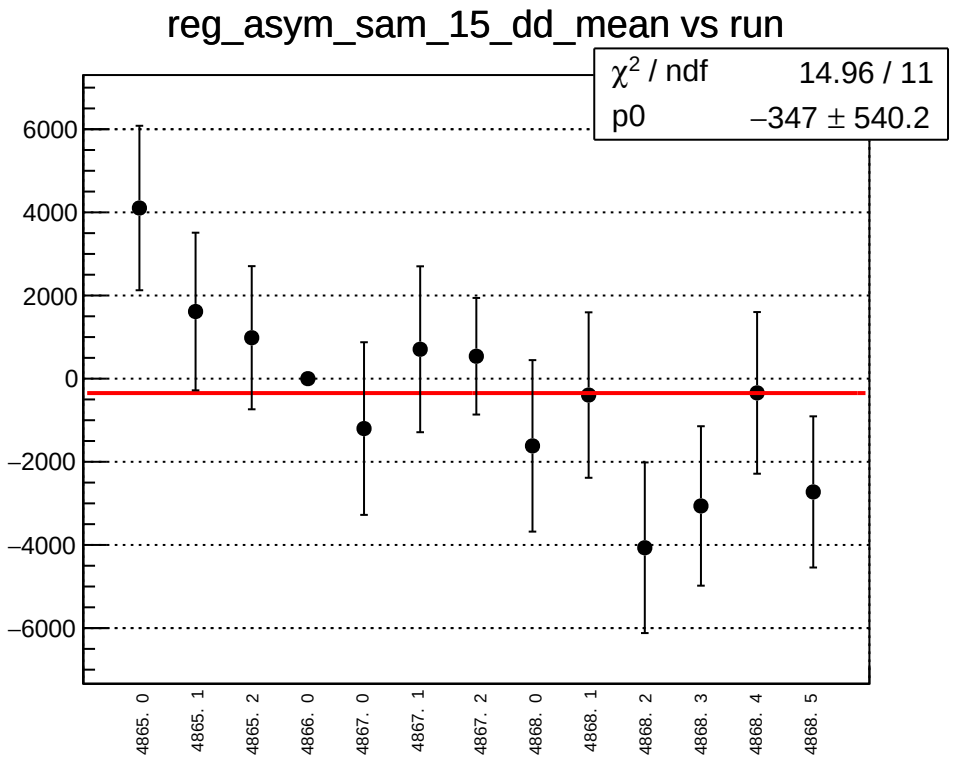

pull1D
Entries 13
Mean 0.02637
Std Dev 0.8673
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

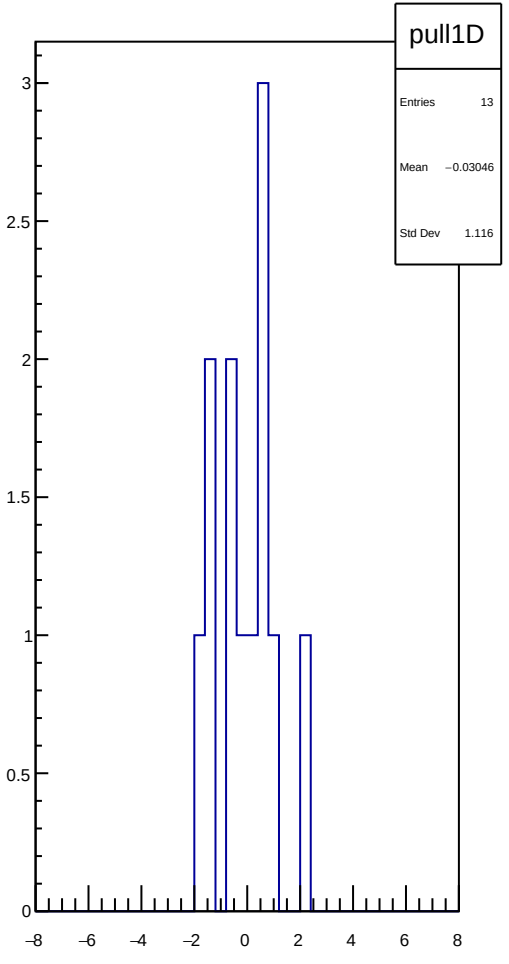

asym_sam_37_dd_rms vs run
χ² / ndf 667.7 / 11
p0 5025 ± 10.28
6000
5000
4000
3000
2000
1000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

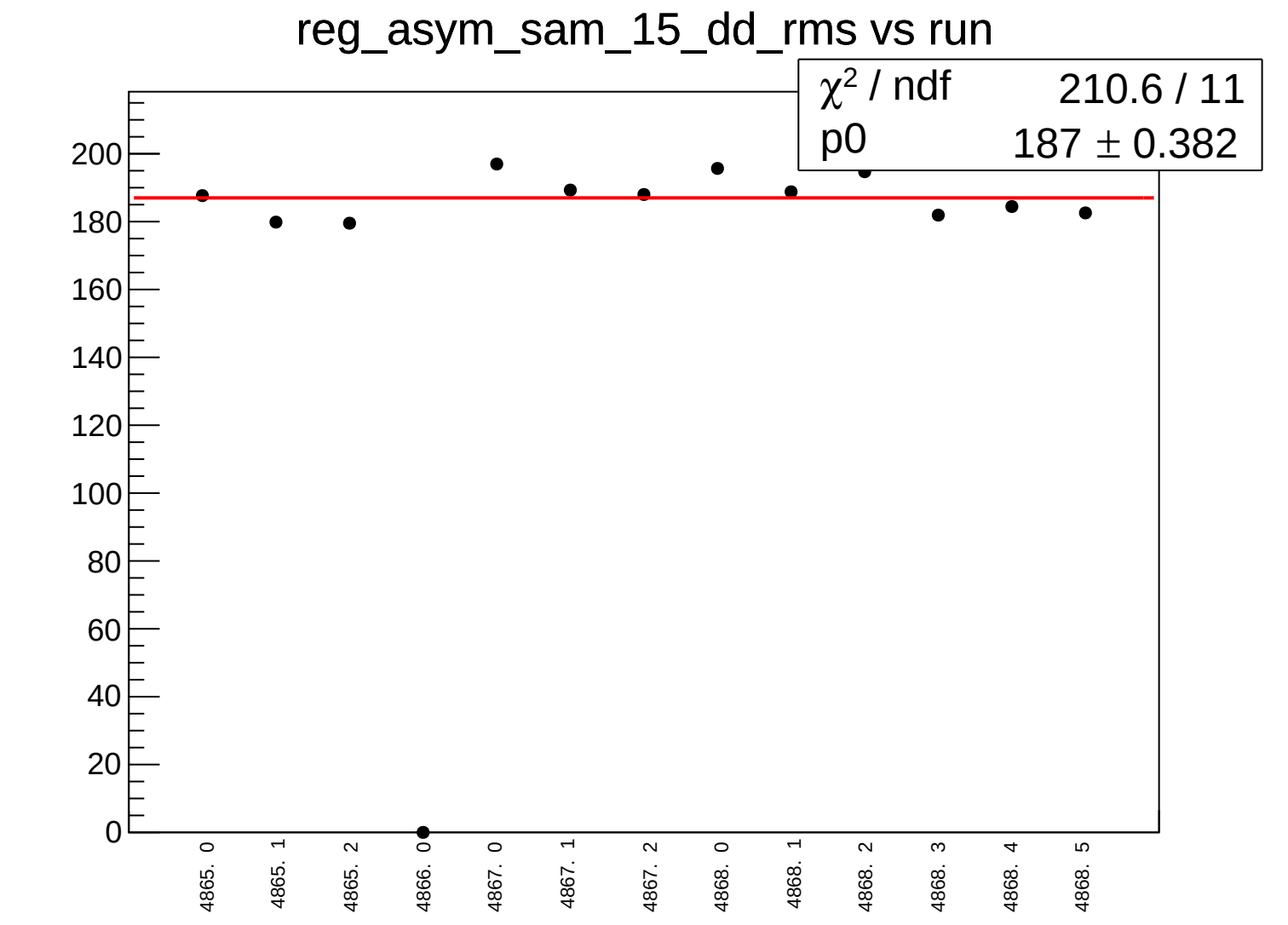

asym_sam_48_dd_mean vs run
χ² / ndf 10.96 / 11
p0 6745 ± 7911
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

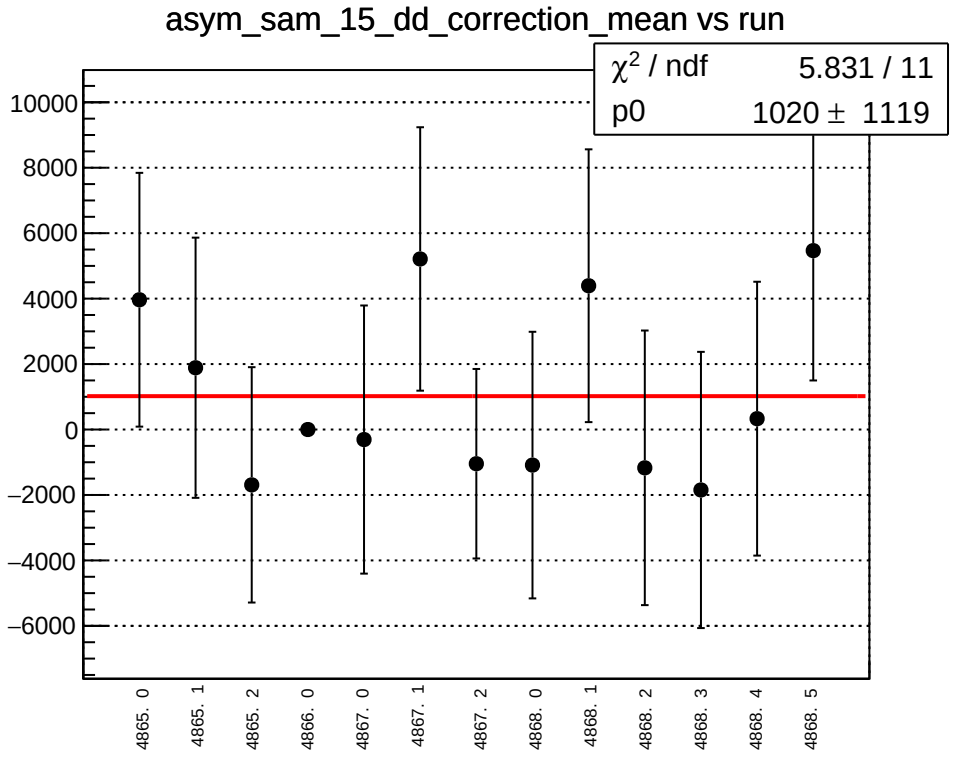

pull1D
Entries 13
Mean 0.02344
Std Dev 0.9555
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

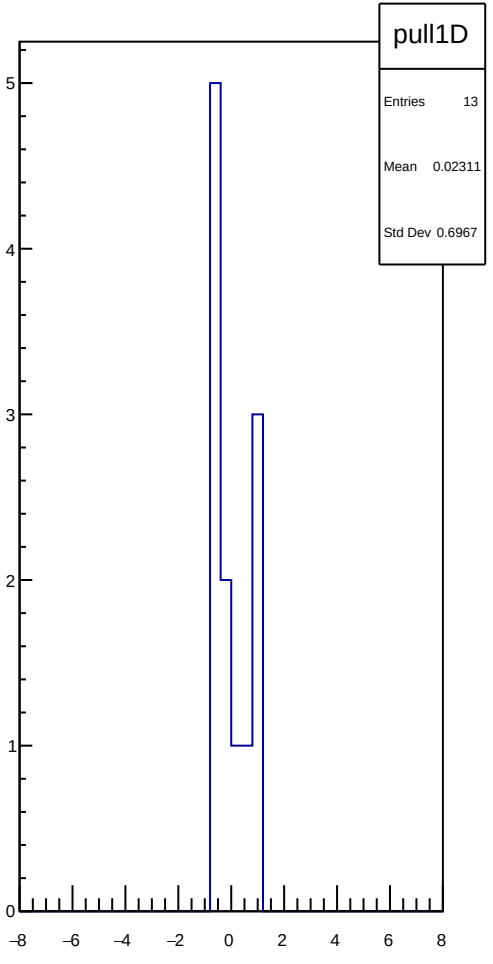

asym_sam_48_dd_rms vs run
χ² / ndf 357.8 / 11
p0 2738 ± 5.594
3000
2500
2000
1500
1000
500
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

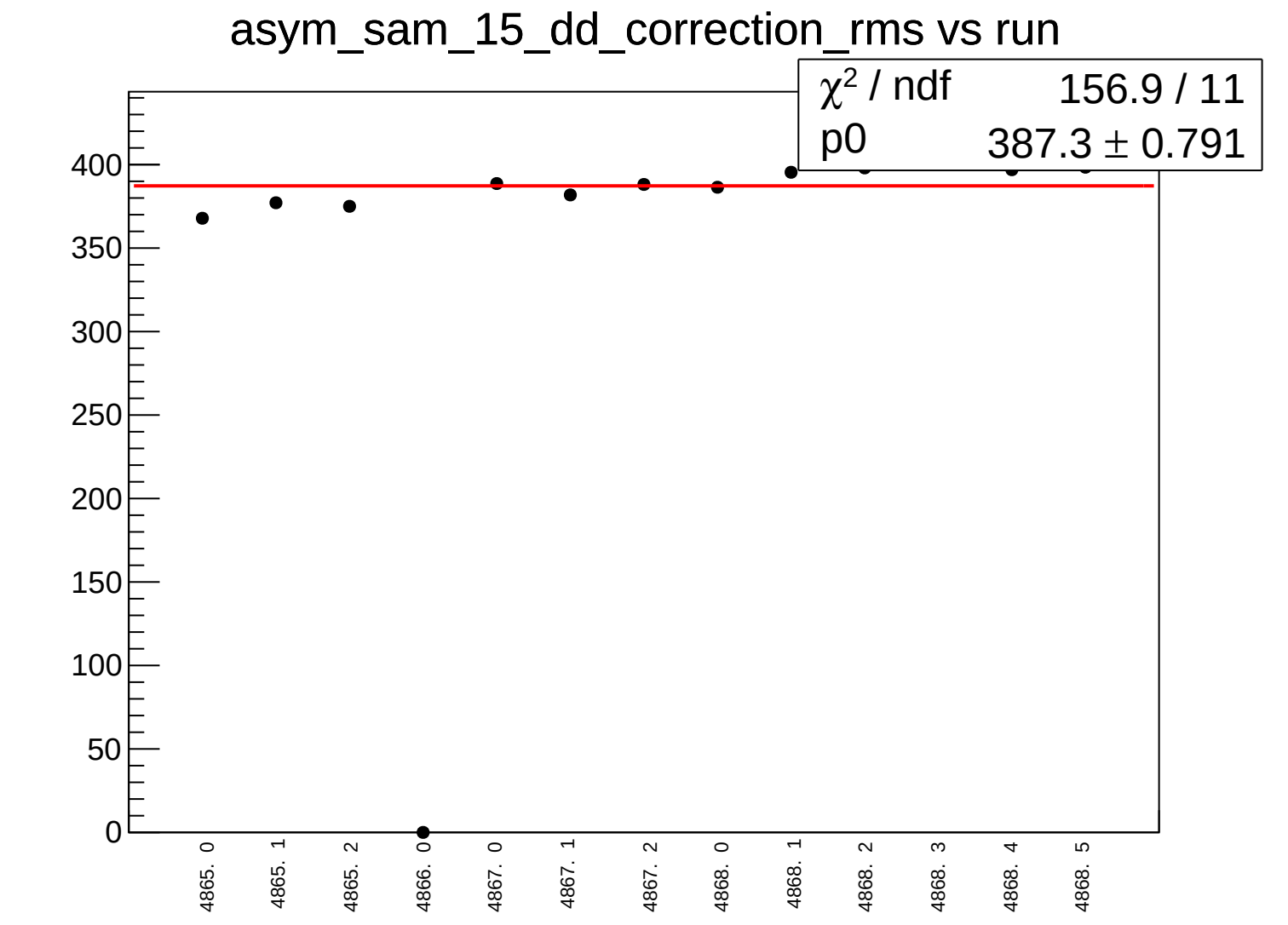

reg_asym_sam_15_dd_mean vs run
χ² / ndf 14.96 / 11
p0 −347 ± 540.2
6000
4000
2000
0
−2000
−4000
−6000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

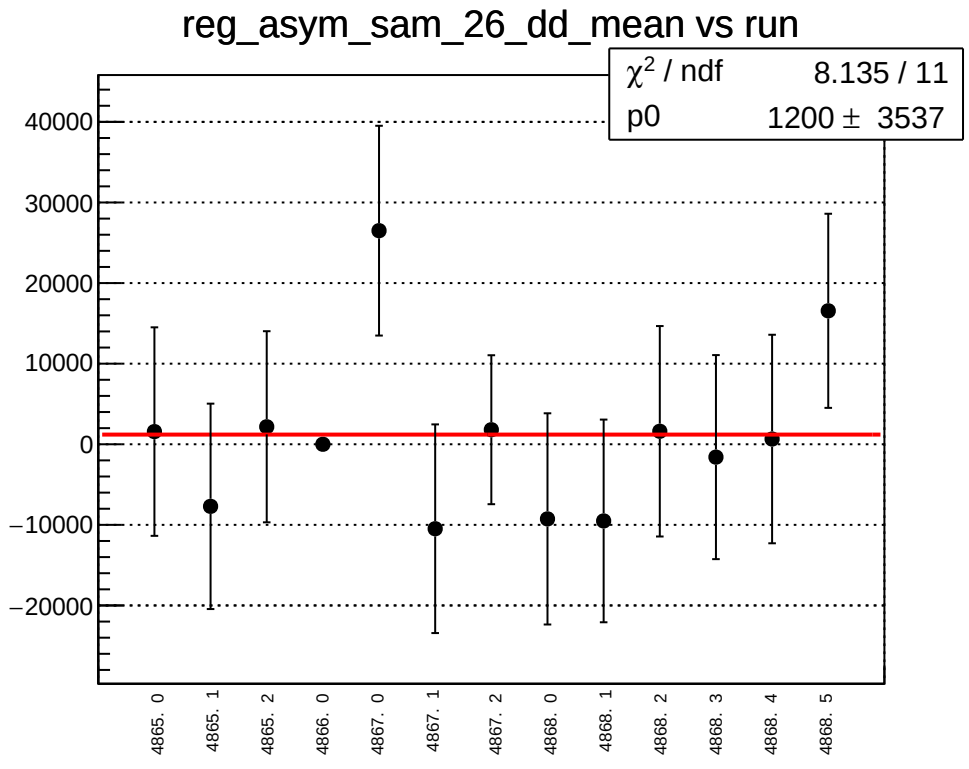

pull1D
Entries 13
Mean −0.03046
Std Dev 1.116
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

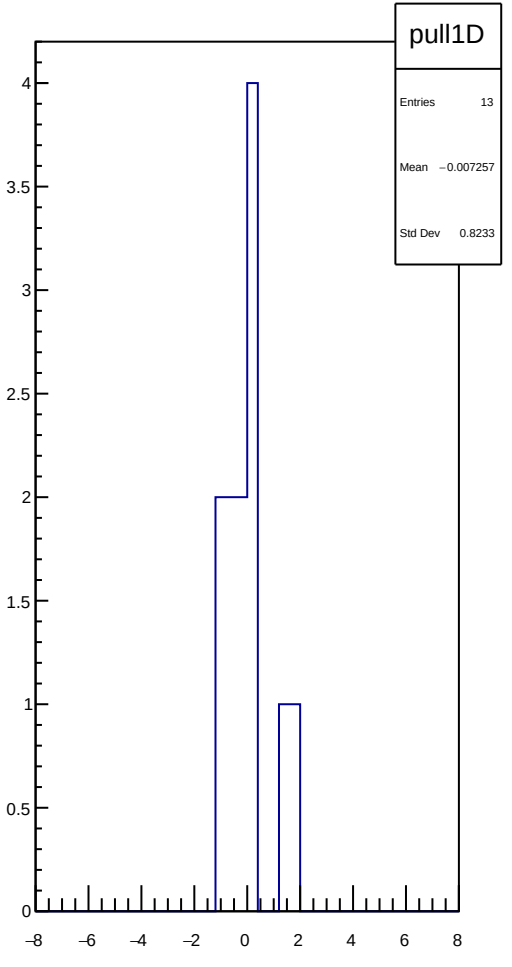

reg_asym_sam_15_dd_rms vs run
χ² / ndf 210.6 / 11
p0 187 ± 0.382
200
180
160
140
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

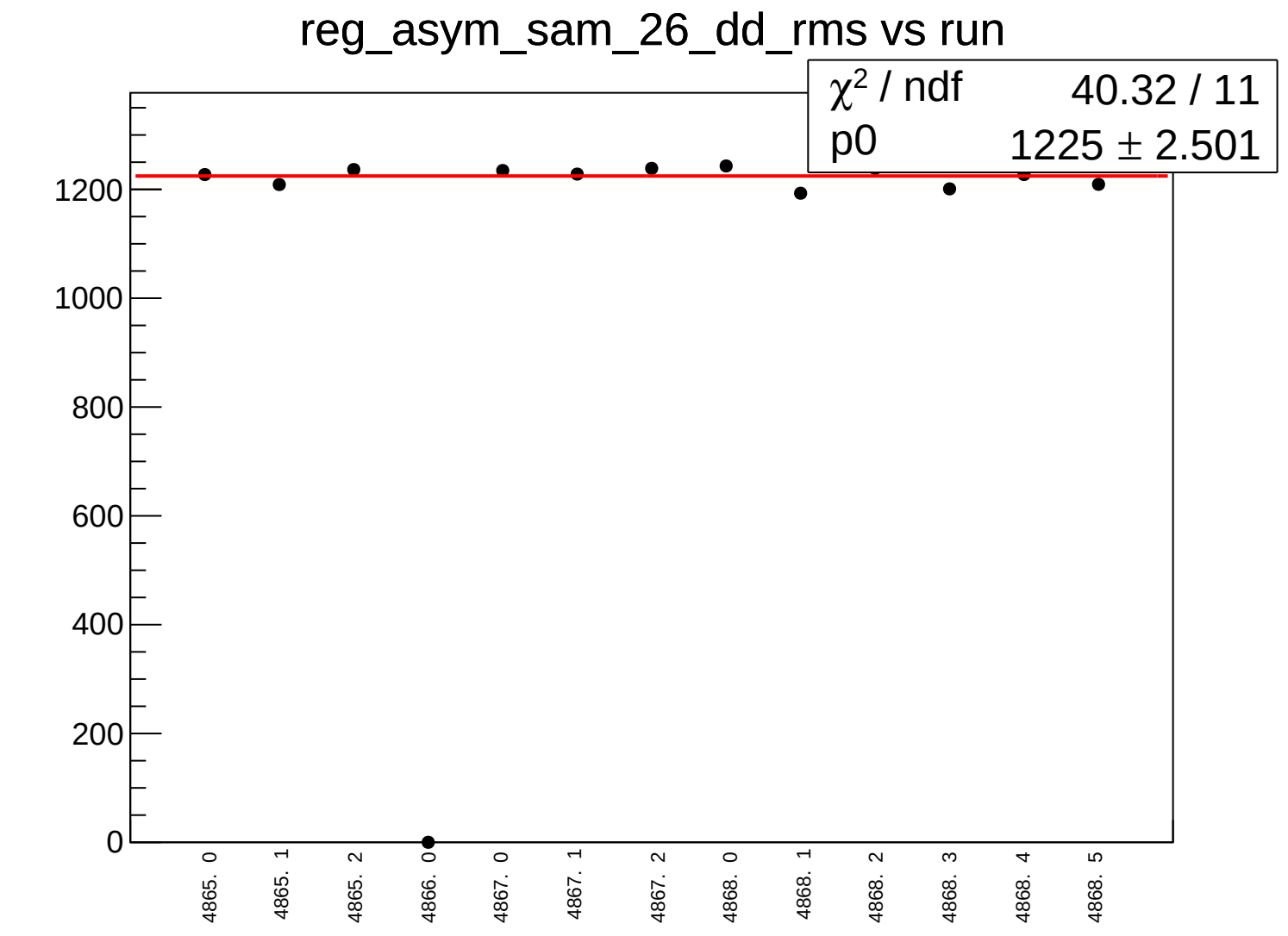

asym_sam_15_dd_correction_mean vs run
χ² / ndf 5.831 / 11
p0 1020 ± 1119
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

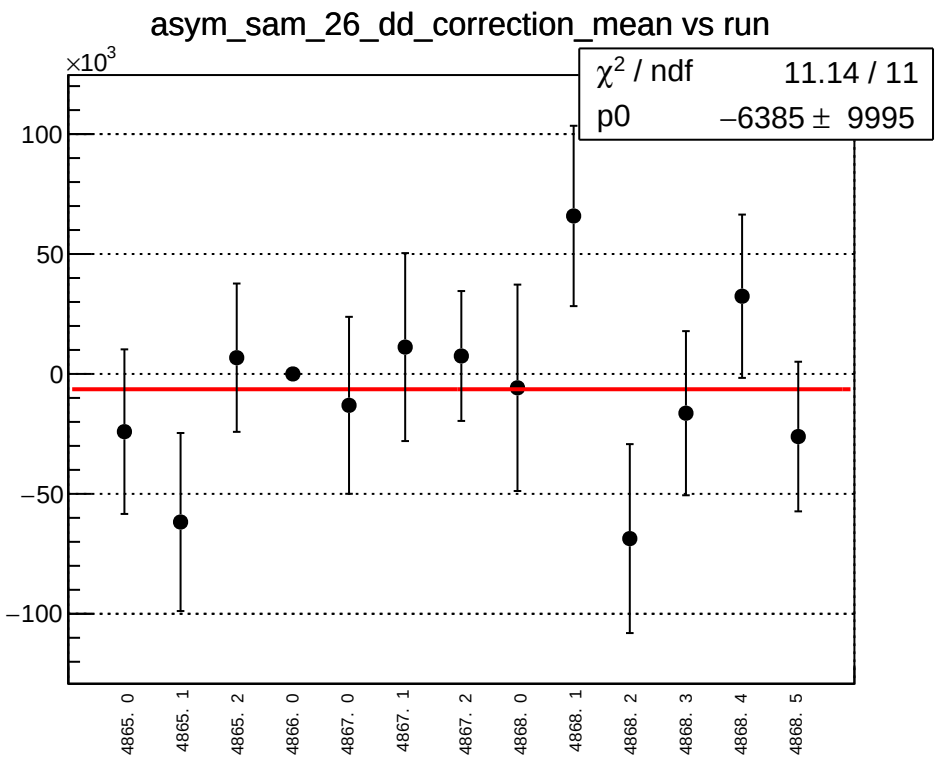

pull1D
Entries 13
Mean 0.02311
Std Dev 0.6967
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

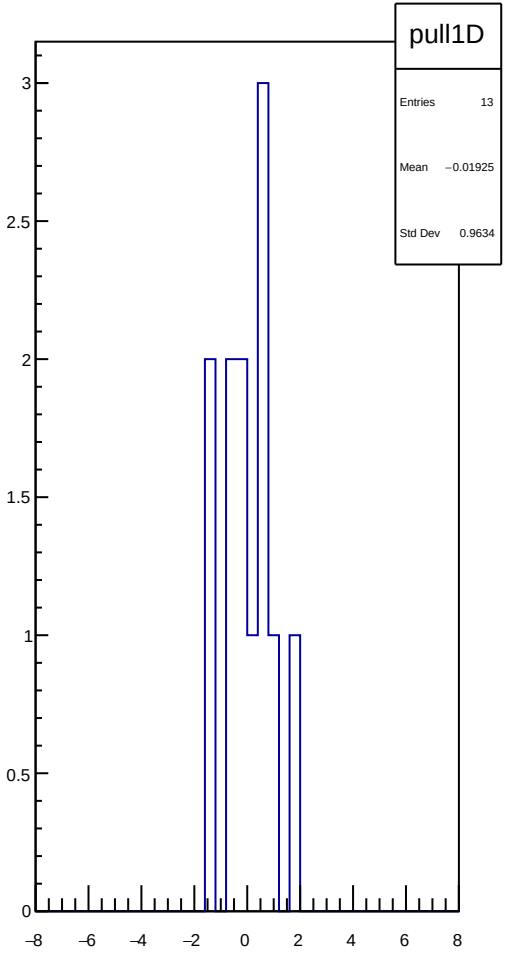

asym_sam_15_dd_correction_rms vs run
χ² / ndf 156.9 / 11
p0 387.3 ± 0.791
400
350
300
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

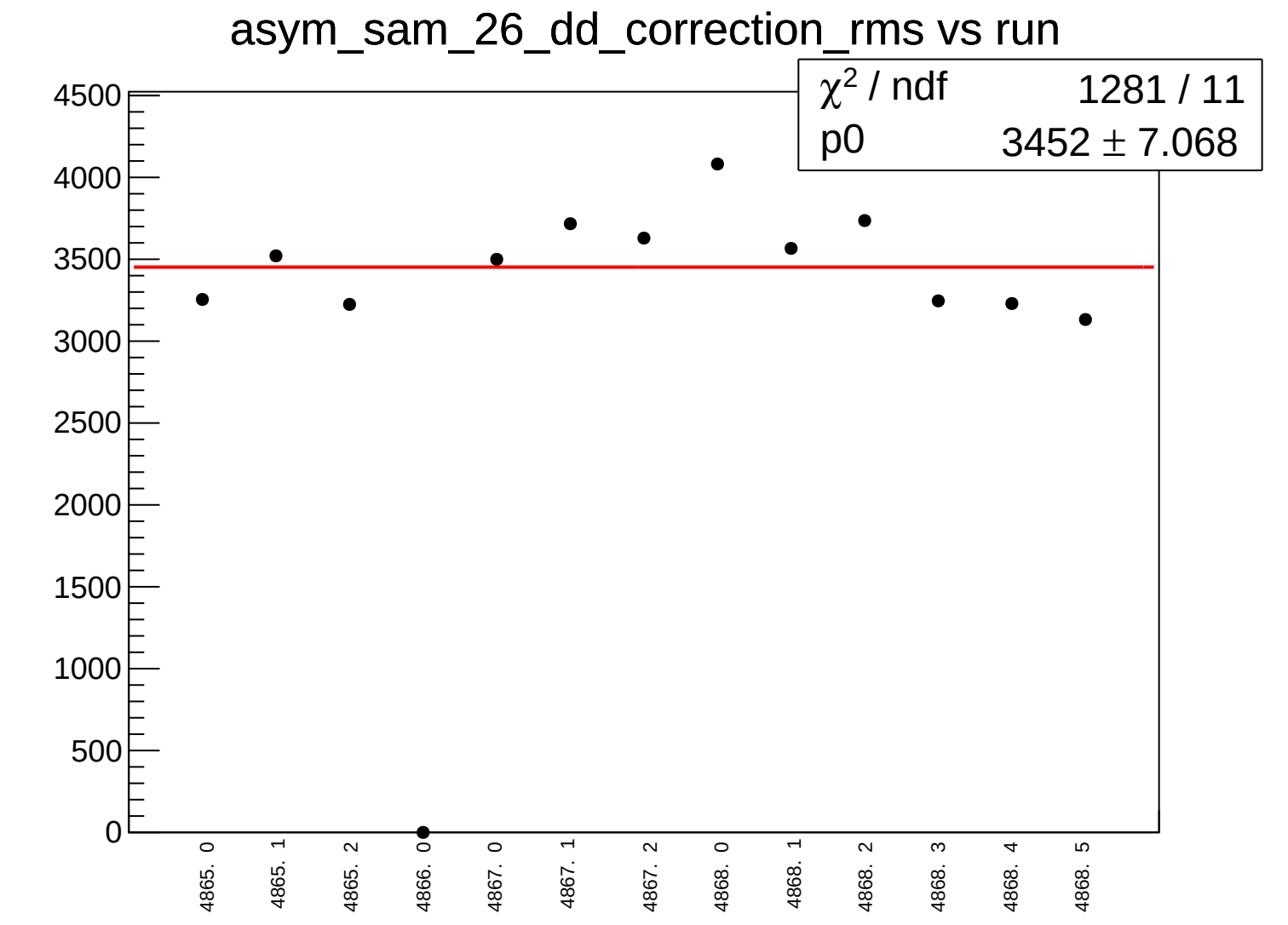

reg_asym_sam_26_dd_mean vs run
χ² / ndf 8.135 / 11
p0 1200 ± 3537
40000
30000
20000
10000
0
−10000
−20000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

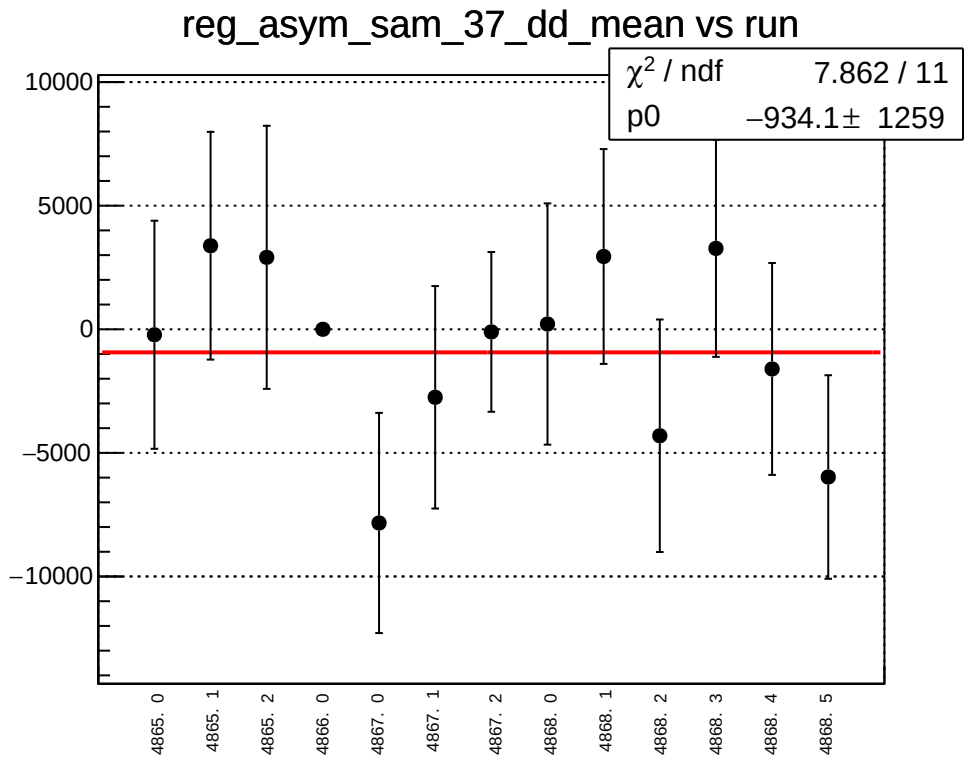

pull1D
Entries 13
Mean −0.007257
Std Dev 0.8233
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

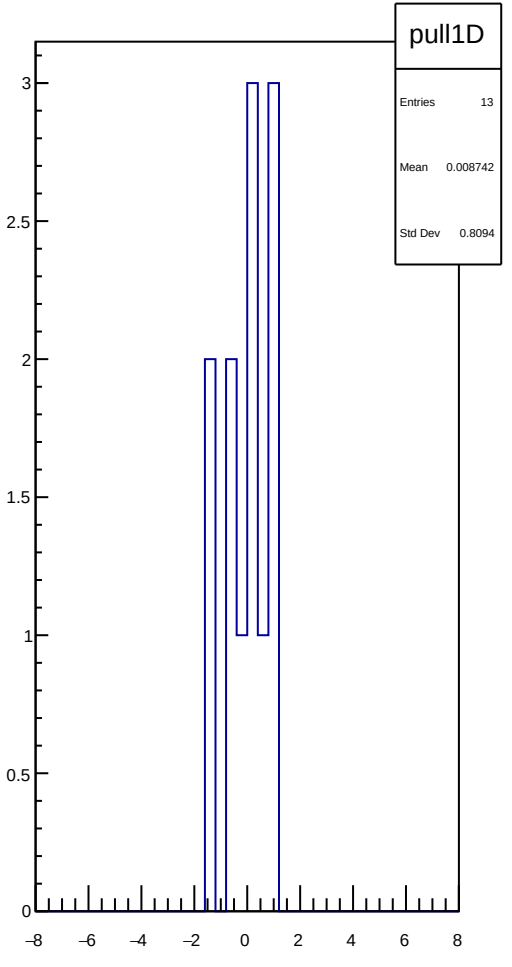

reg_asym_sam_26_dd_rms vs run
χ² / ndf 40.32 / 11
p0 1225 ± 2.501
1200
1000
800
600
400
200
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

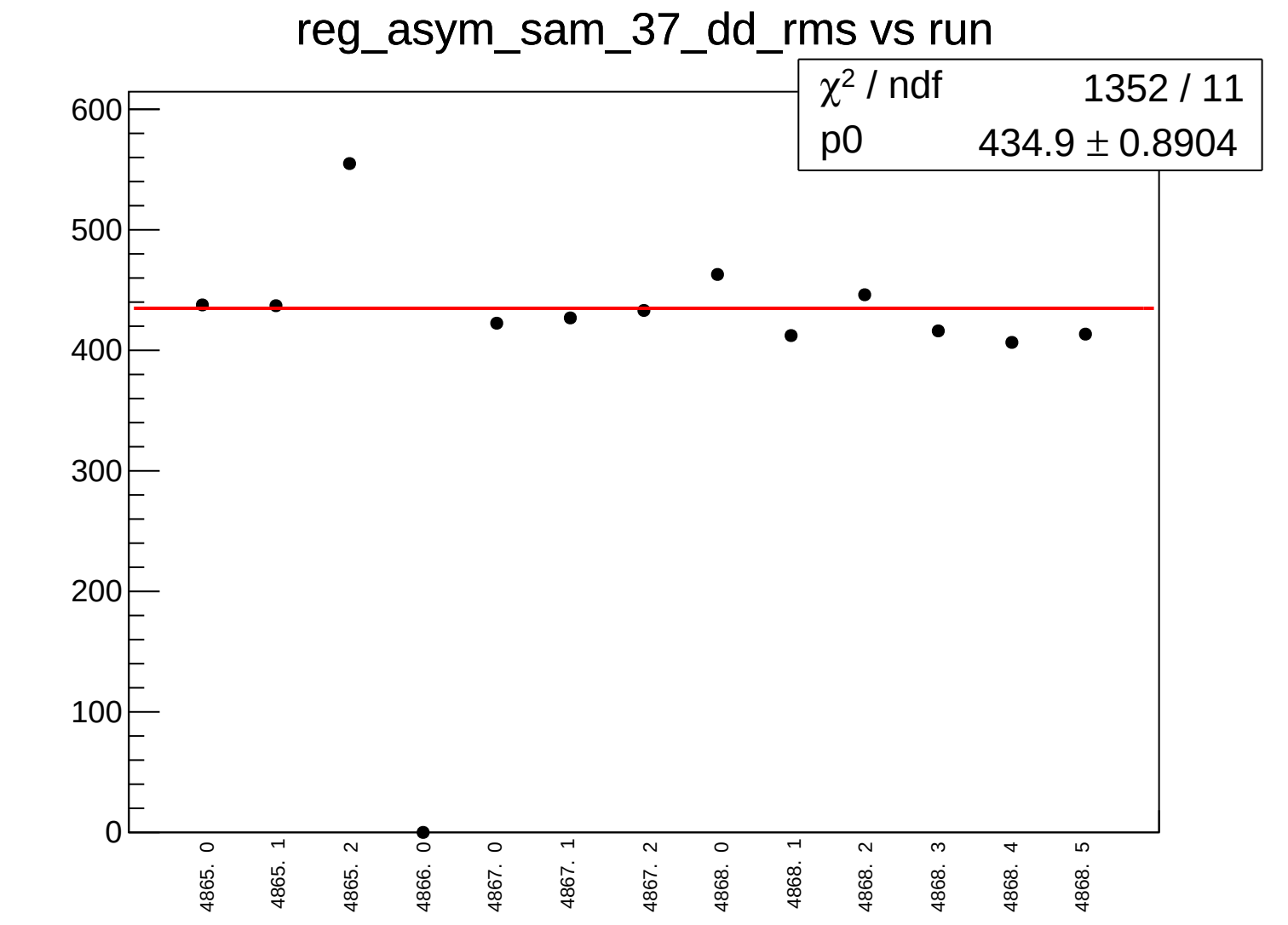

asym_sam_26_dd_correction_mean vs run
×10^3
χ^2 / ndf 11.14 / 11
p0 −6385 ± 9995
100
50
0
−50
−100
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

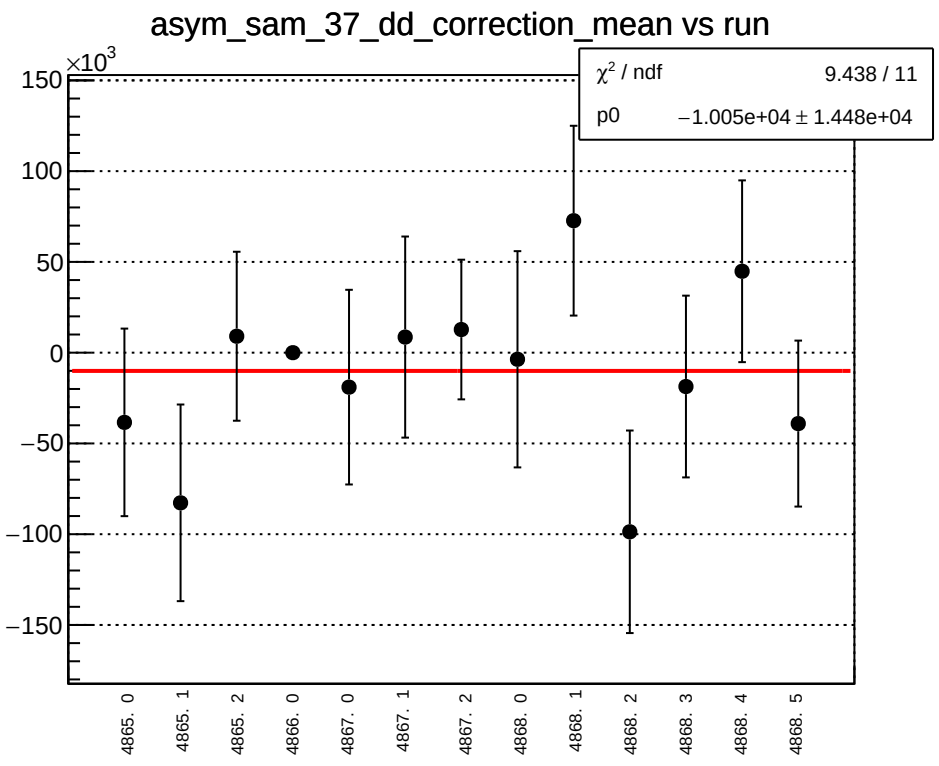

pull1D
Entries 13
Mean −0.01925
Std Dev 0.9634
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

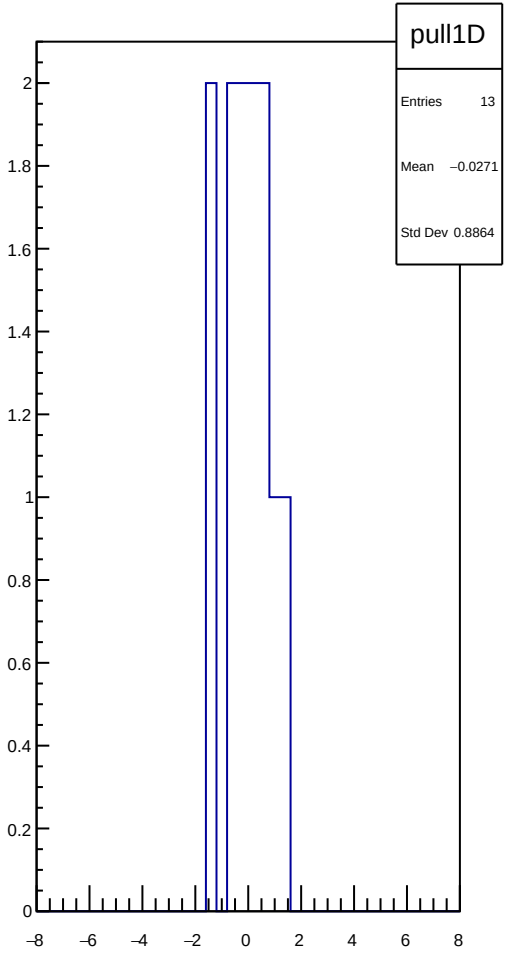

asym_sam_26_dd_correction_rms vs run
χ² / ndf 1281 / 11
p0 3452 ± 7.068
4500
4000
3500
3000
2500
2000
1500
1000
500
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

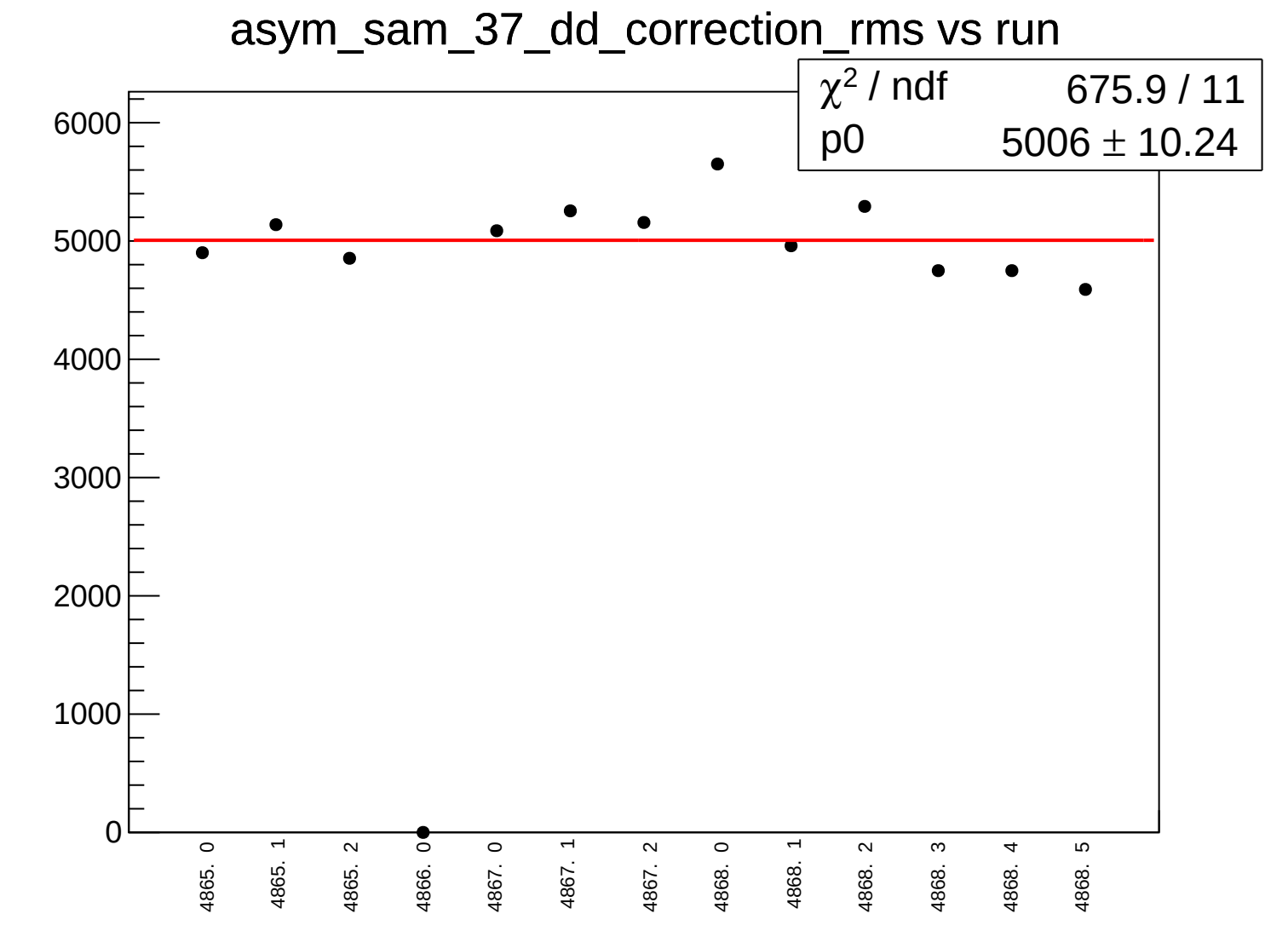

reg_asym_sam_37_dd_mean vs run
χ2 / ndf 7.862 / 11
p0 −934.1± 1259
10000
5000
0
−5000
−10000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

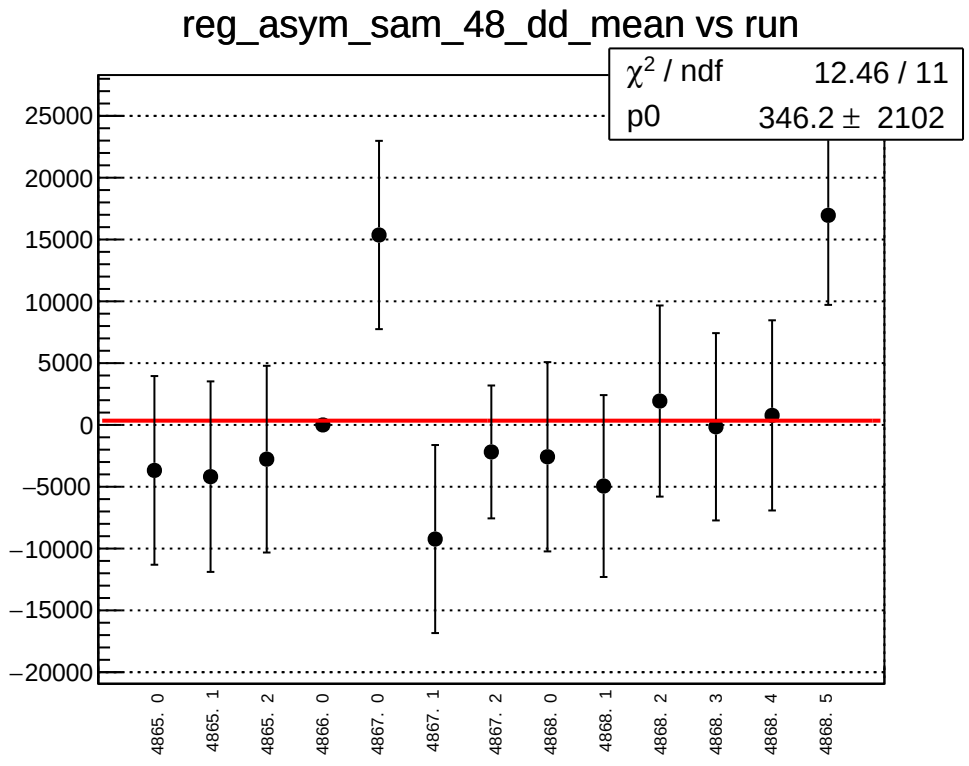

pull1D
Entries 13
Mean 0.008742
Std Dev 0.8094
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

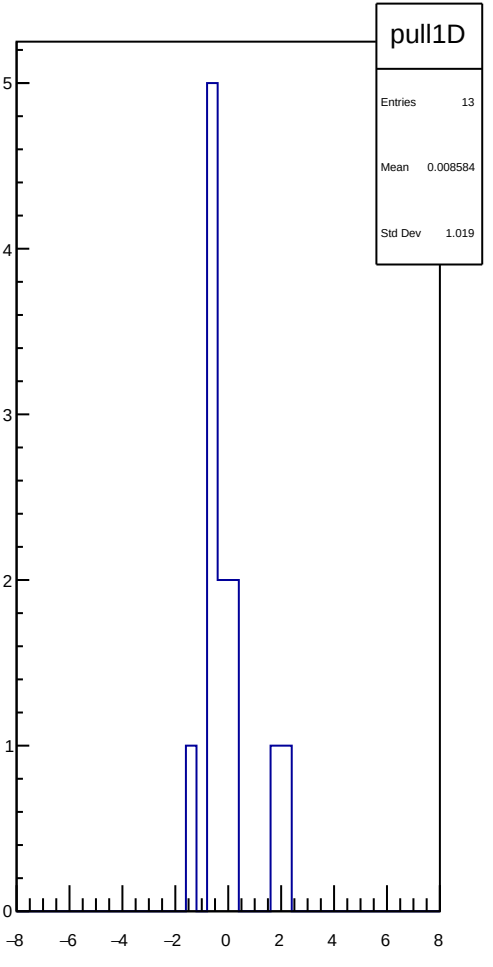

reg_asym_sam_37_dd_rms vs run
χ² / ndf 1352 / 11
p0 434.9 ± 0.8904
600
500
400
300
200
100
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

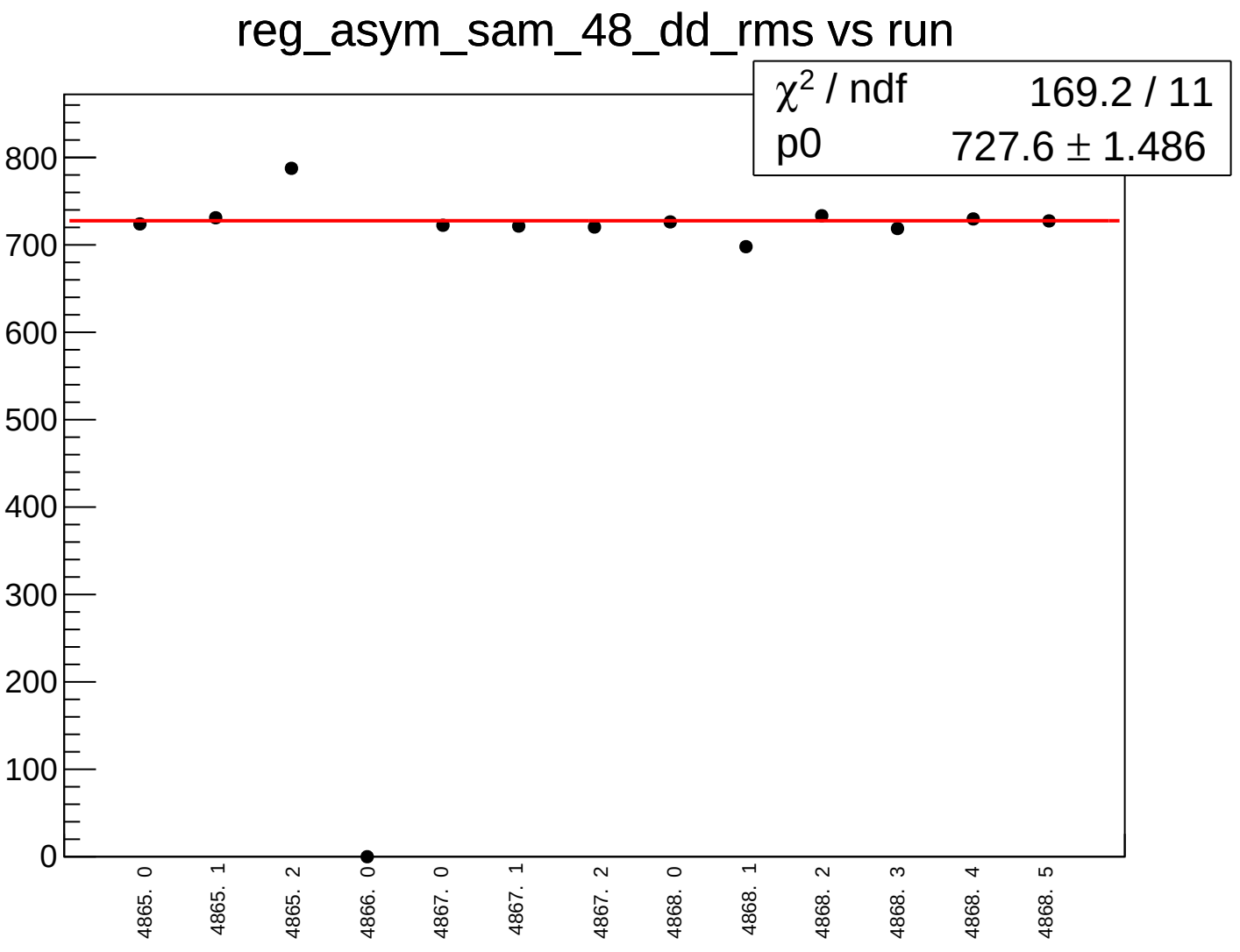

asym_sam_37_dd_correction_mean vs run
×10^3
150
100
50
0
−50
−100
−150
χ² / ndf 9.438 / 11
p0 −1.005e+04 ± 1.448e+04
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

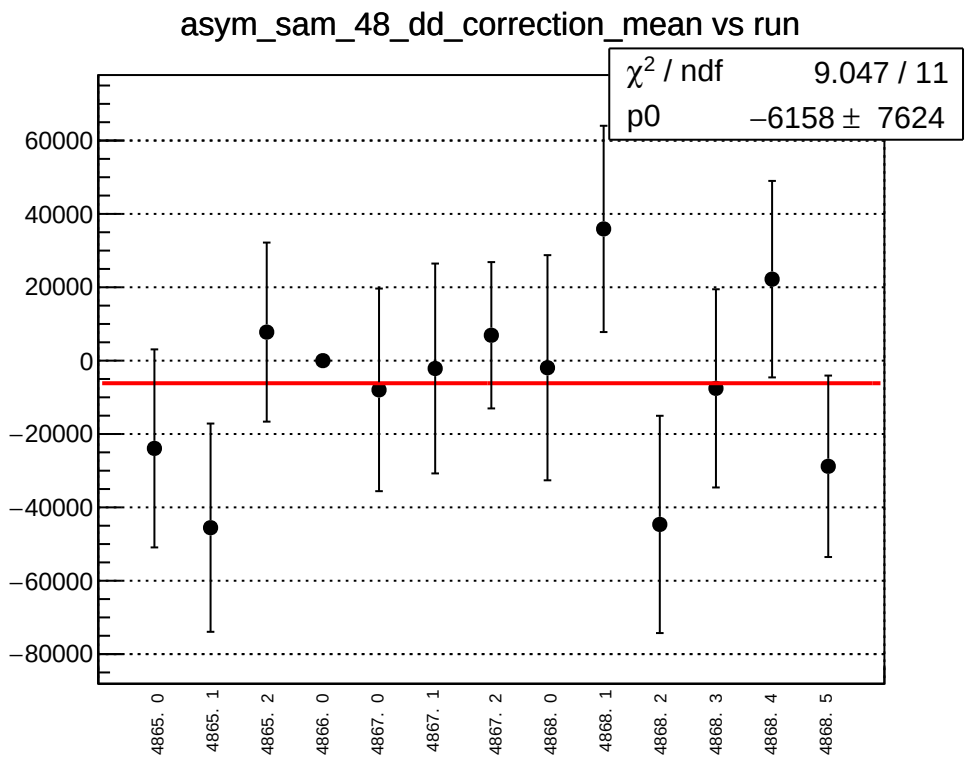

pull1D
Entries 13
Mean −0.0271
Std Dev 0.8864
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_dd_correction_rms vs run
χ² / ndf 675.9 / 11
p0 5006 ± 10.24
6000
5000
4000
3000
2000
1000
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


reg_asym_sam_48_dd_mean vs run
χ² / ndf 12.46 / 11
p0 346.2 ± 2102
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.008584
Std Dev 1.019
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 169.2 / 11
p0 727.6 ± 1.486
800
700
600
500
400
300
200
100
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


asym_sam_48_dd_correction_mean vs run
χ² / ndf 9.047 / 11
p0 −6158 ± 7624
60000
40000
20000
0
−20000
−40000
−60000
−80000
4865. 0
4865. 1
4865. 2
4866. 0
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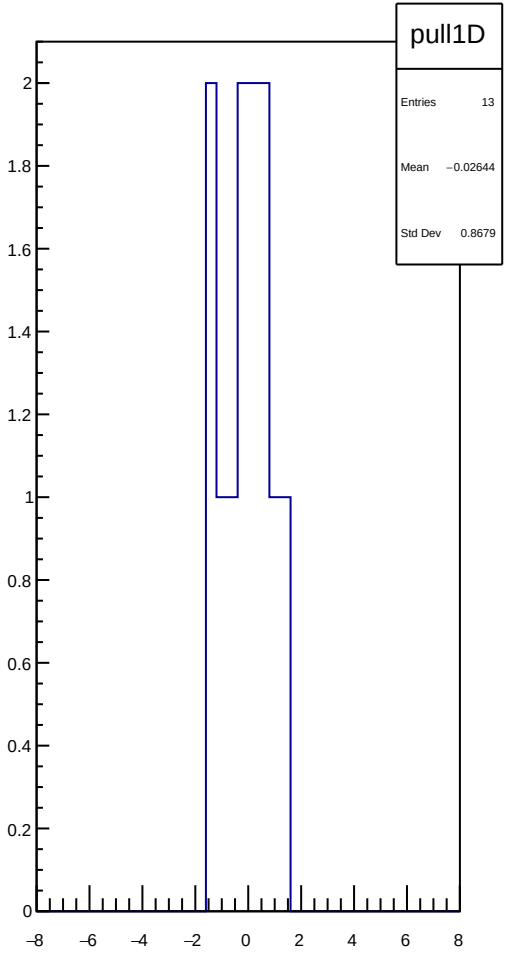
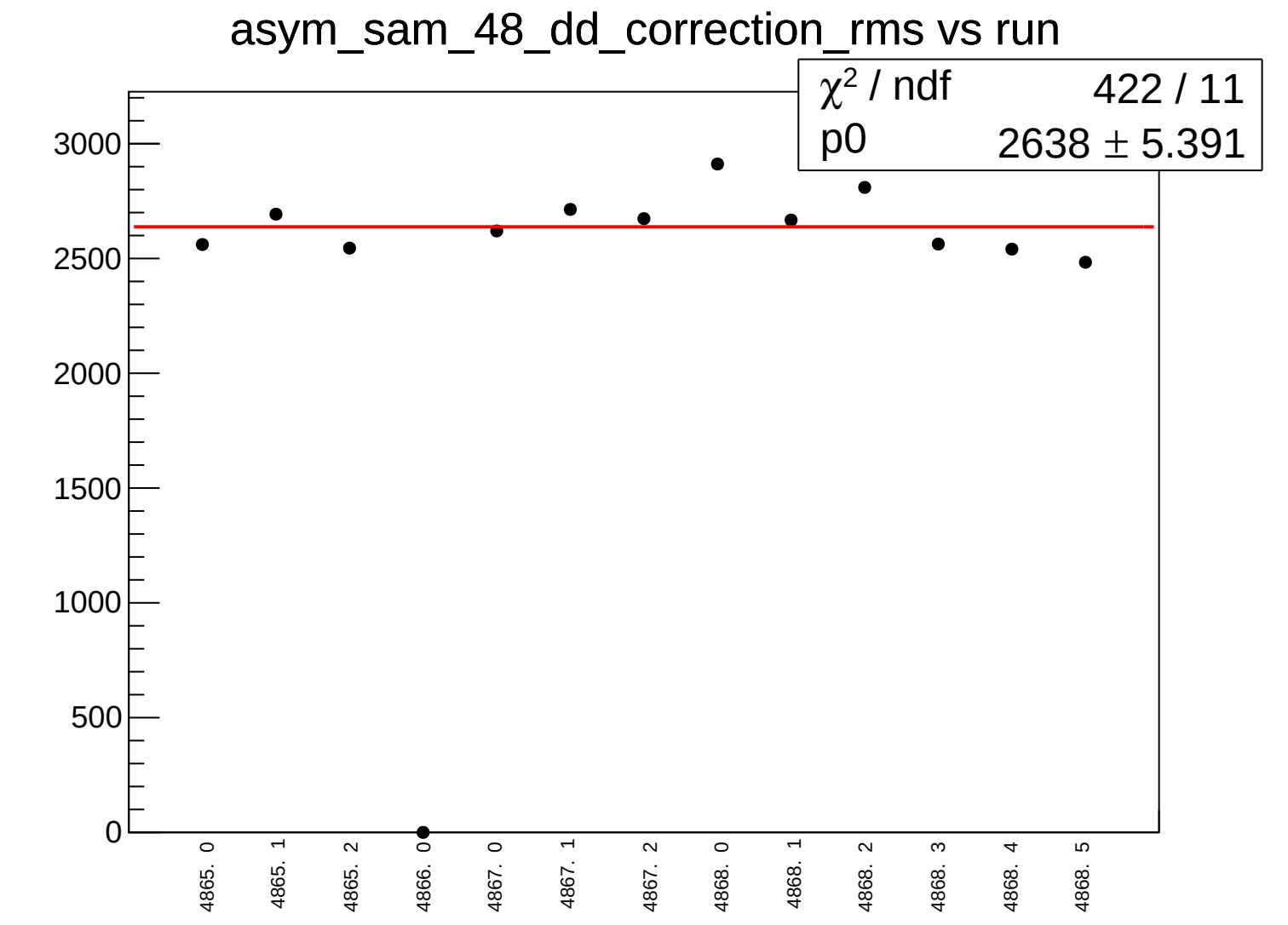
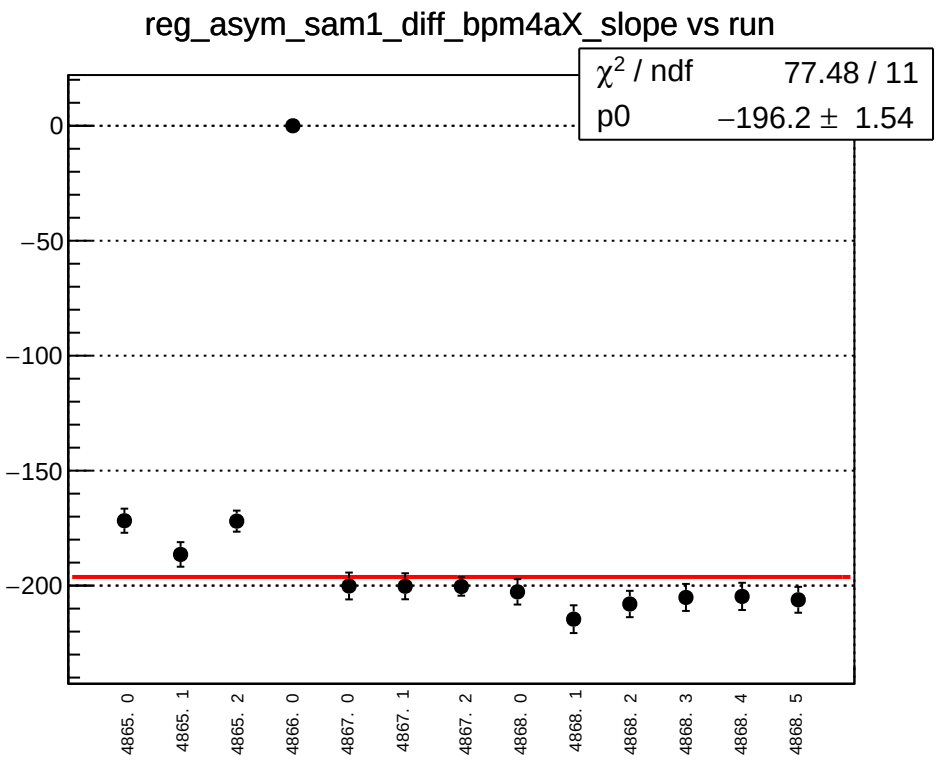
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.02644
Std Dev 0.8679
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_48_dd_correction_rms vs run
χ² / ndf 422 / 11
p0 2638 ± 5.391
3000
2500
2000
1500
1000
500
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 77.48 / 11
p0 −196.2 ± 1.54
0
−50
−100
−150
−200
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
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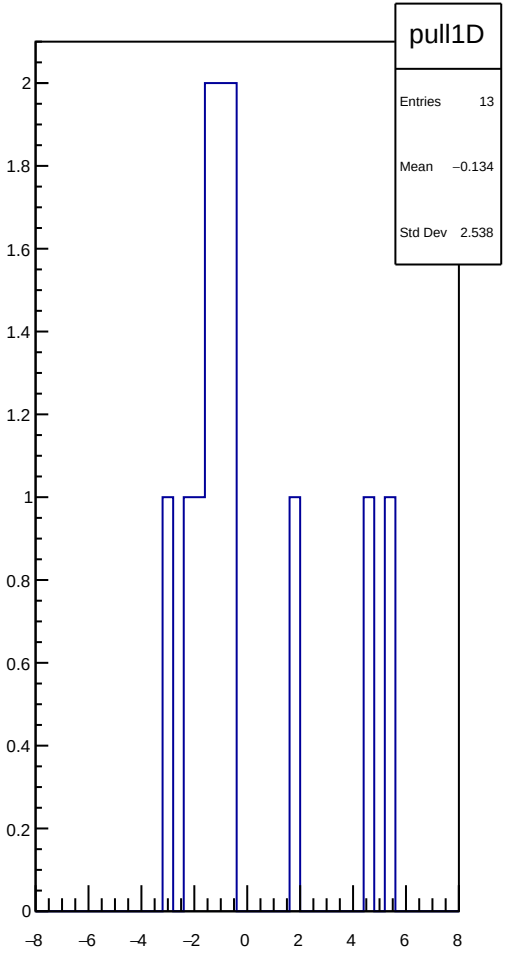
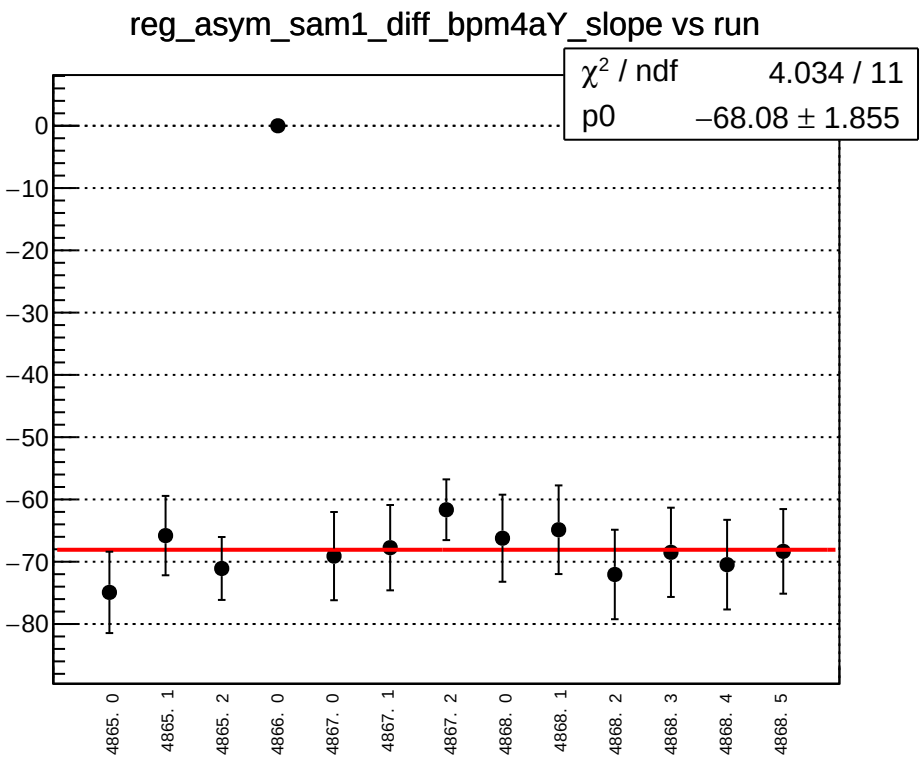
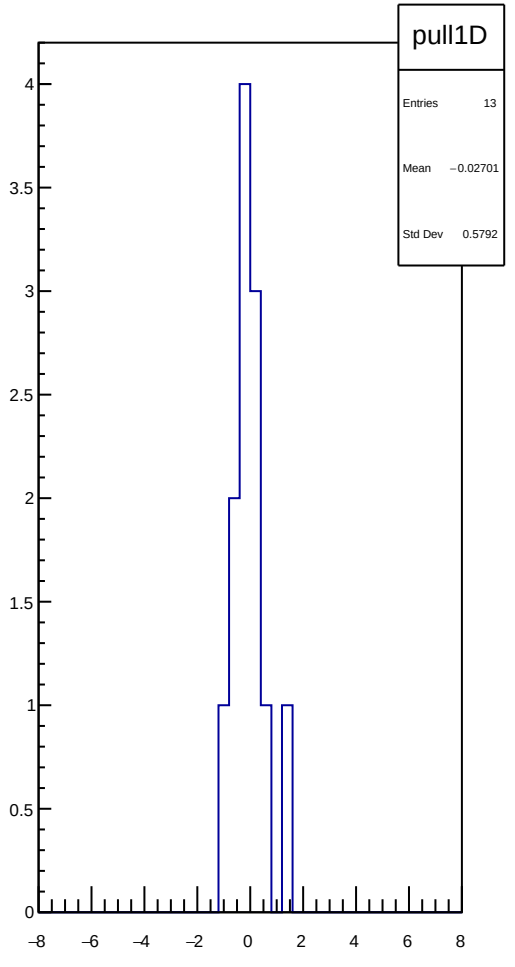
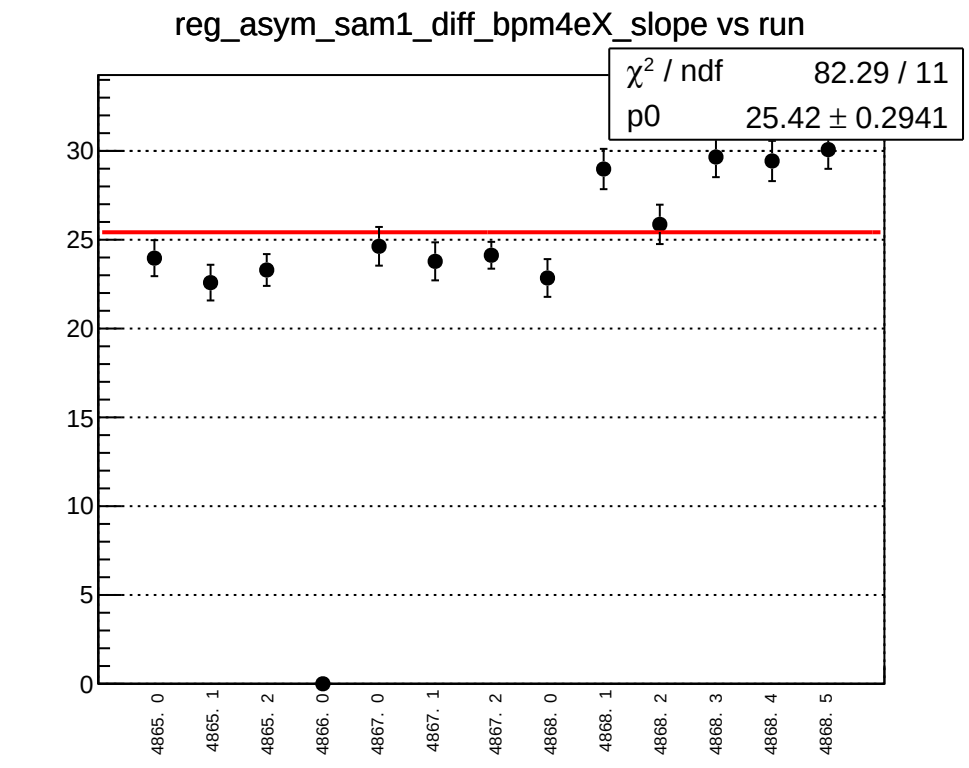
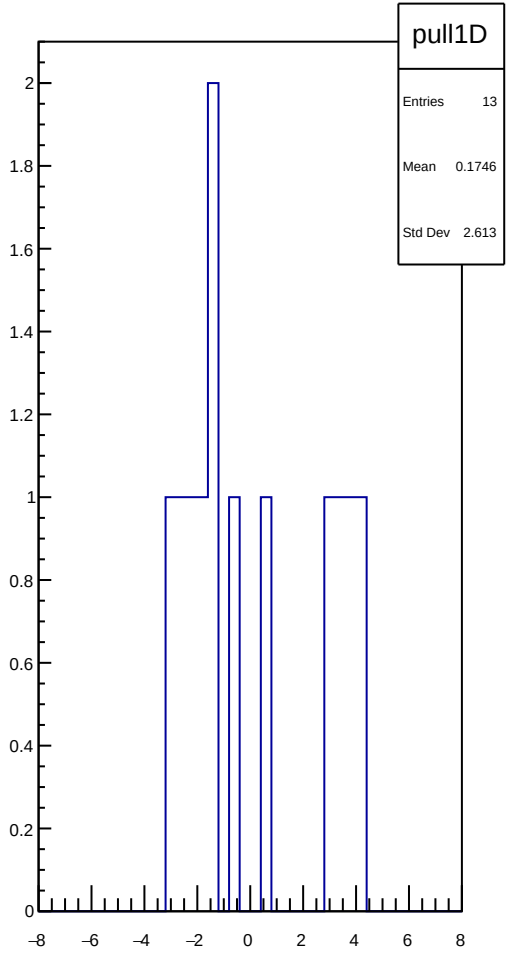
4868. 4
4868. 5

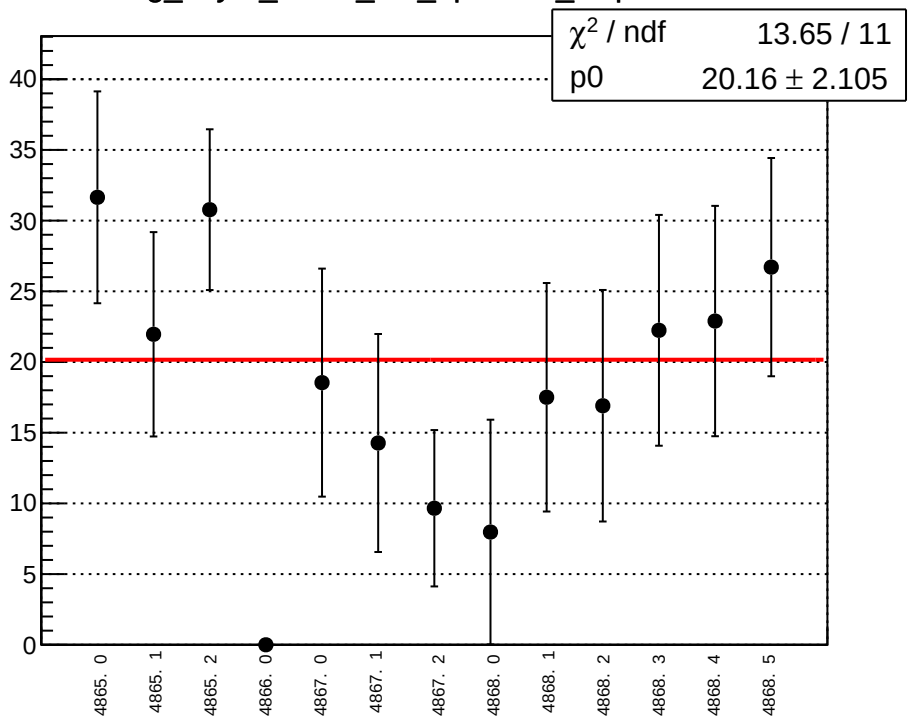

pull1D
Entries 13
Mean −0.134
Std Dev 2.538
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

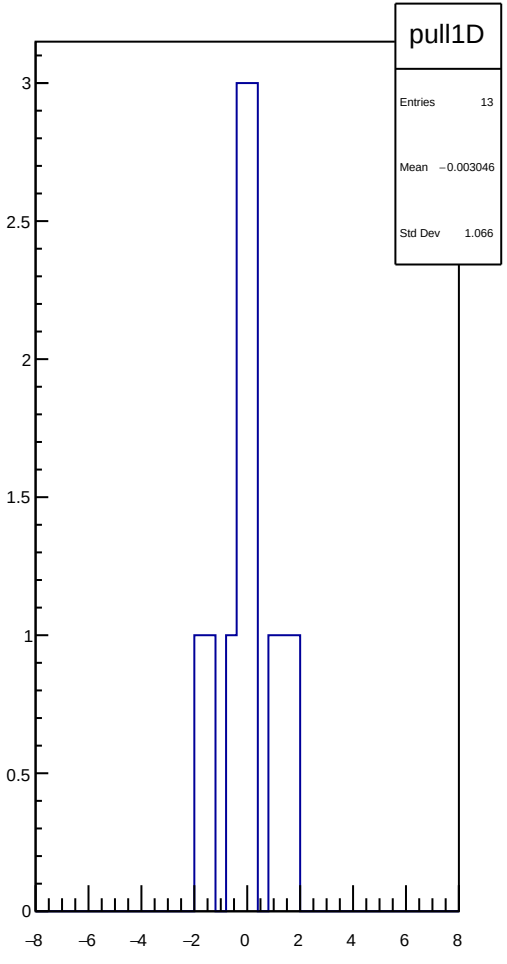

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 4.034 / 11
p0 −68.08 ± 1.855
0
−10
−20
−30
−40
−50
−60
−70
−80
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.02701
Std Dev 0.5792
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 82.29 / 11
p0 25.42 ± 0.2941
30
25
20
15
10
5
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.1746
Std Dev 2.613
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 13.65 / 11
p0 20.16 ± 2.105
40
35
30
25
20
15
10
5
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.003046
Std Dev 1.066
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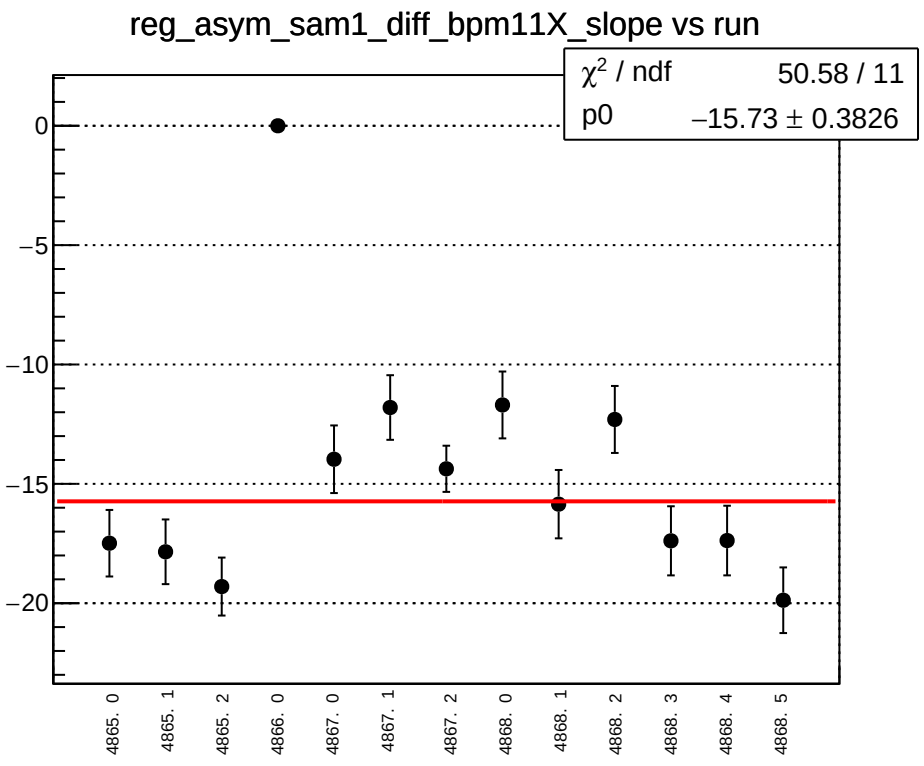
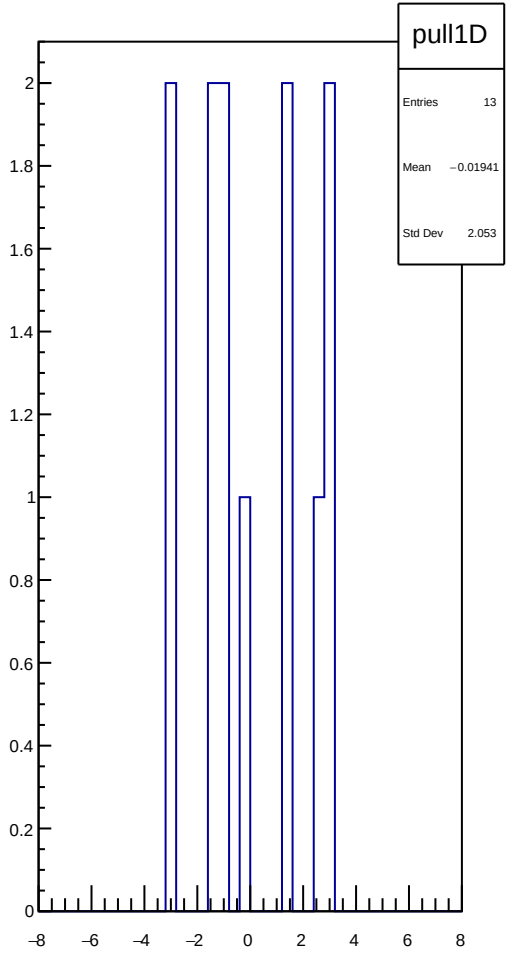
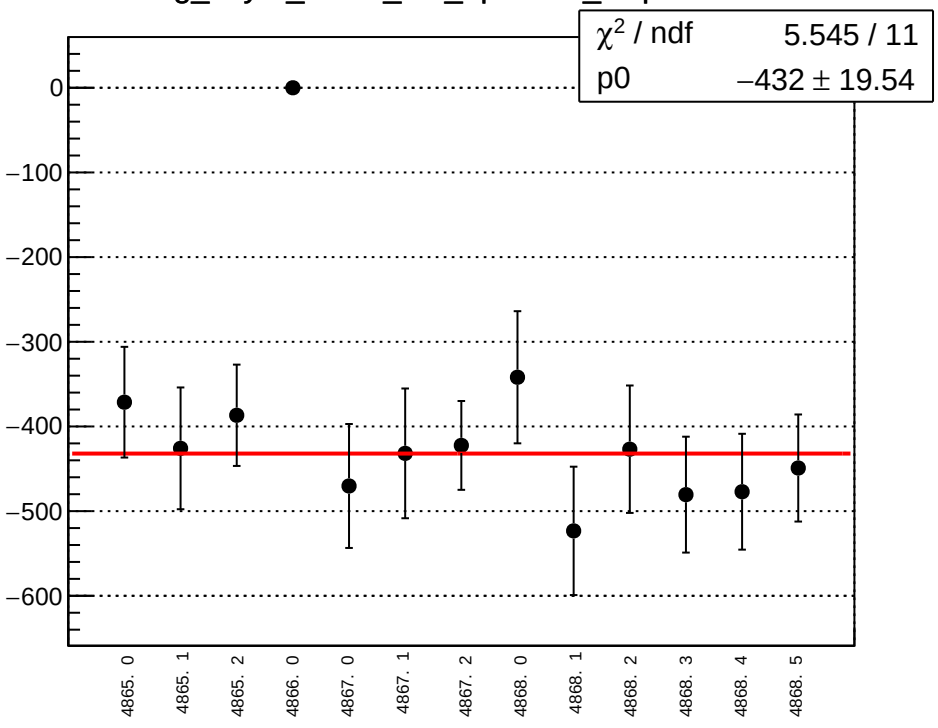
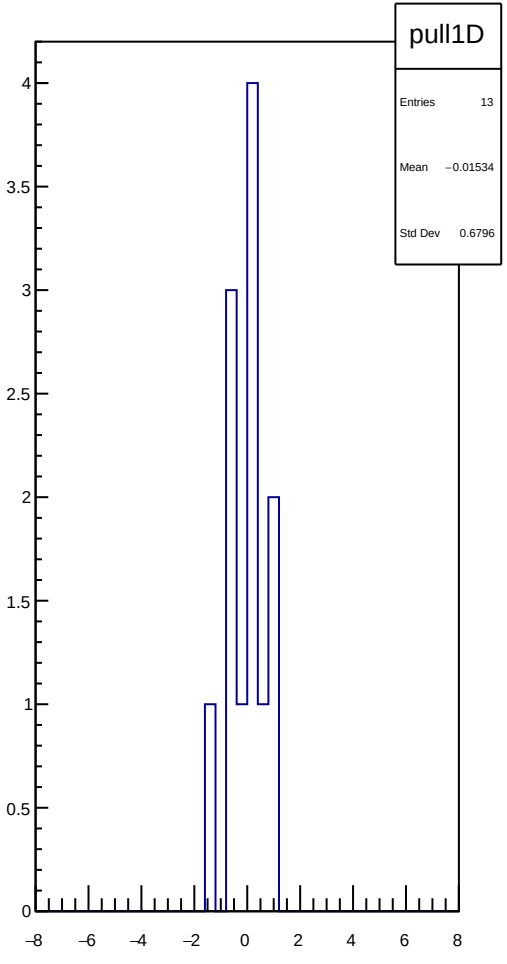
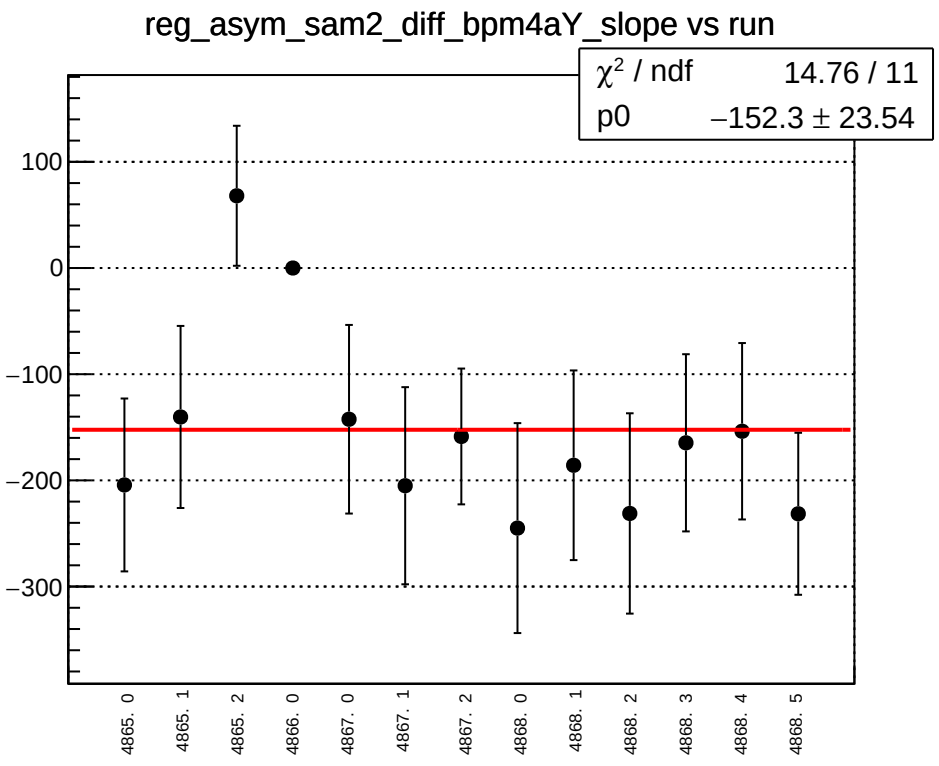
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

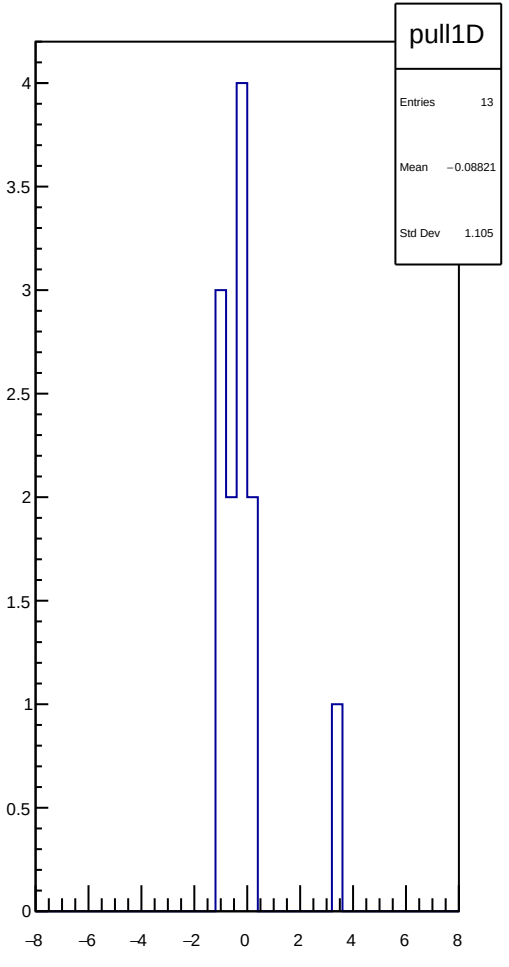

reg_asym_sam1_diff_bpm11X_slope vs run
χ² / ndf 50.58 / 11
p0 −15.73 ± 0.3826
0
−5
−10
−15
−20
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

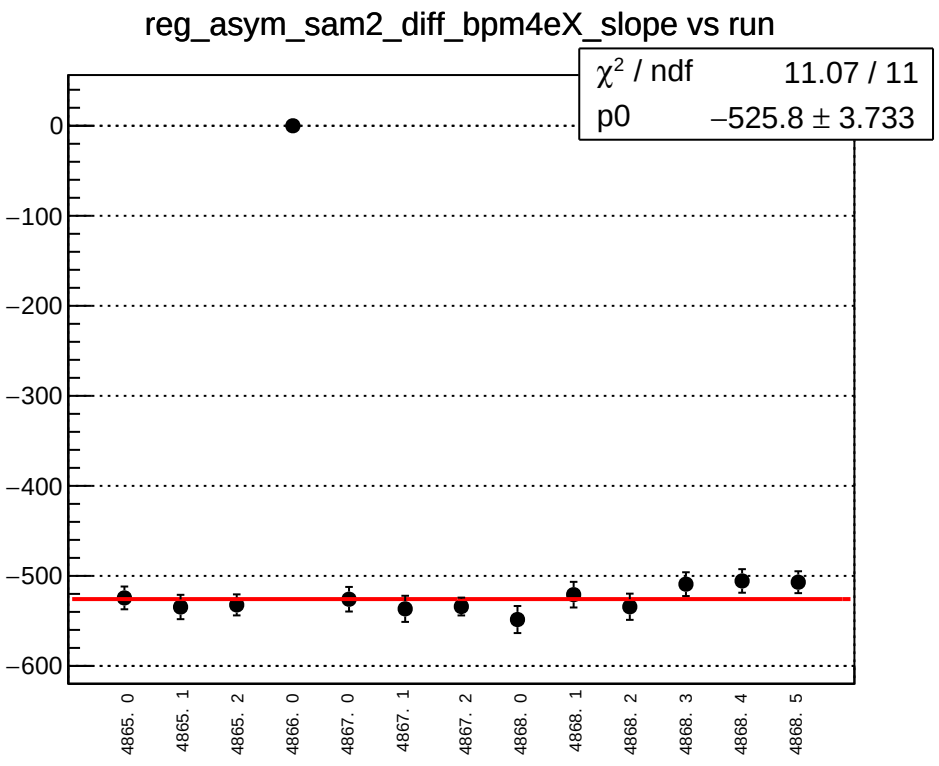

pull1D
Entries 13
Mean −0.01941
Std Dev 2.053
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

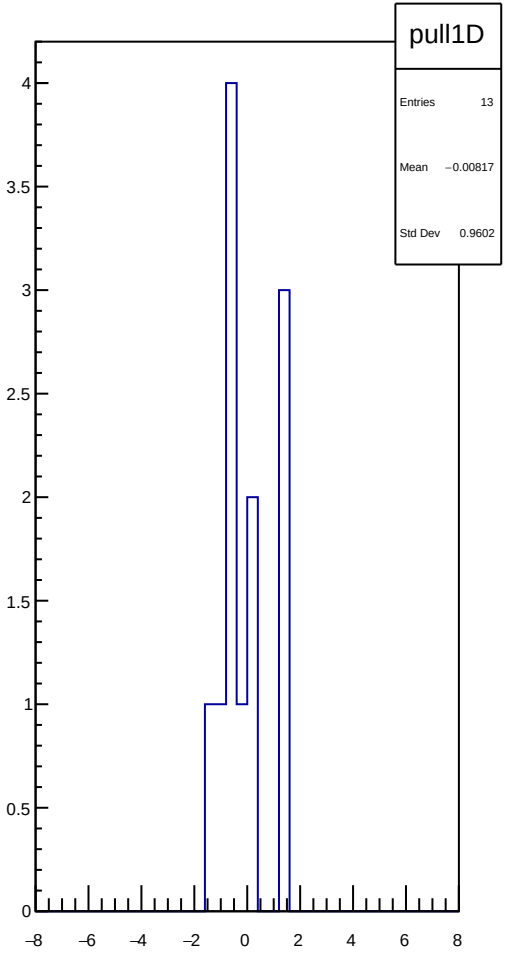

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 5.545 / 11
p0 −432 ± 19.54
0
−100
−200
−300
−400
−500
−600
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

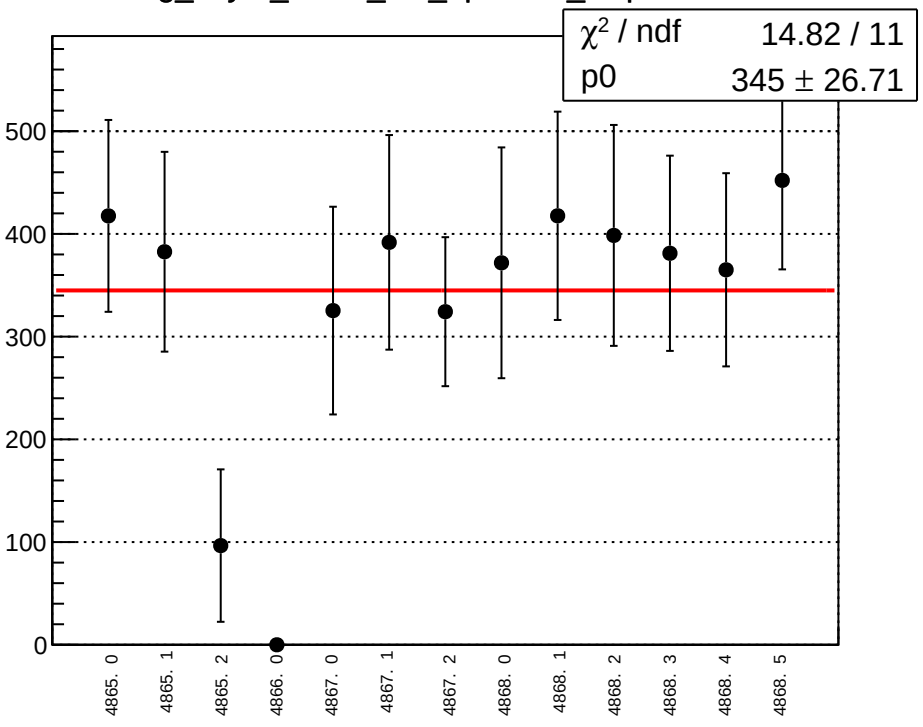

pull1D
Entries 13
Mean −0.01534
Std Dev 0.6796
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

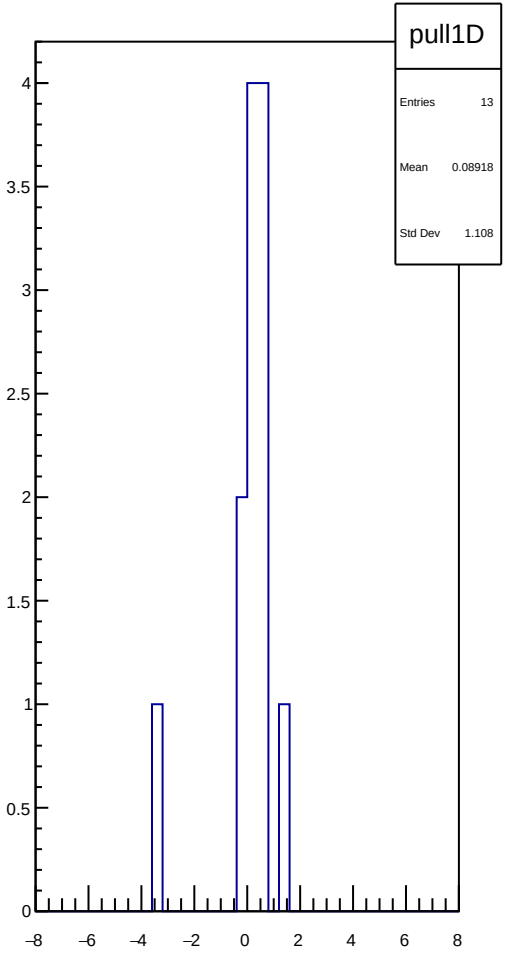

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 14.76 / 11
p0 −152.3 ± 23.54
100
0
−100
−200
−300
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

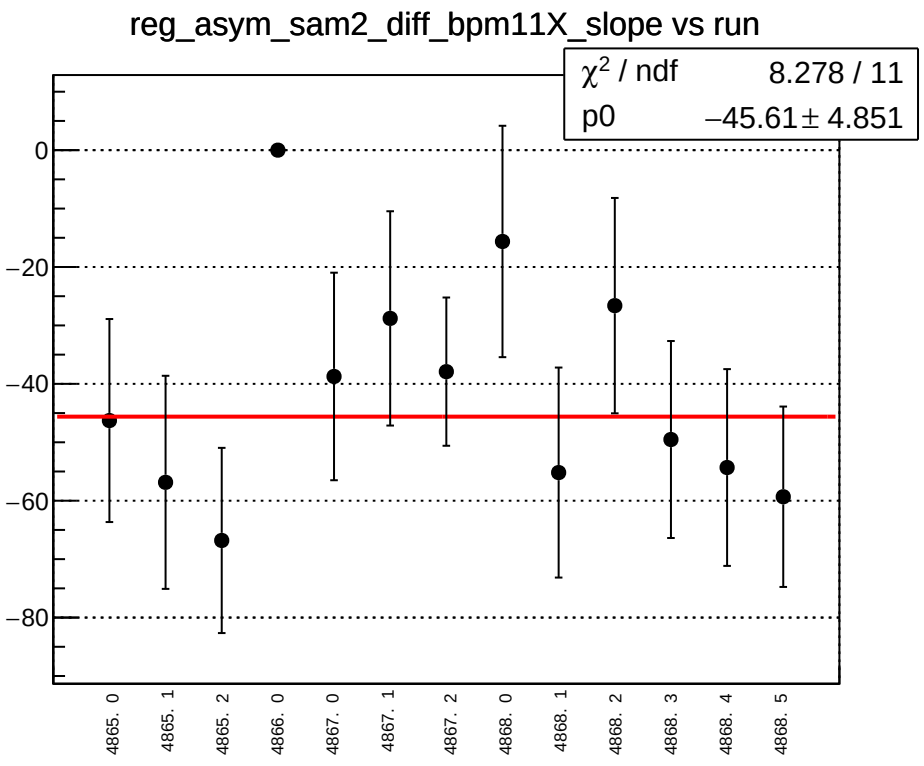

pull1D
Entries 13
Mean −0.08821
Std Dev 1.105
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

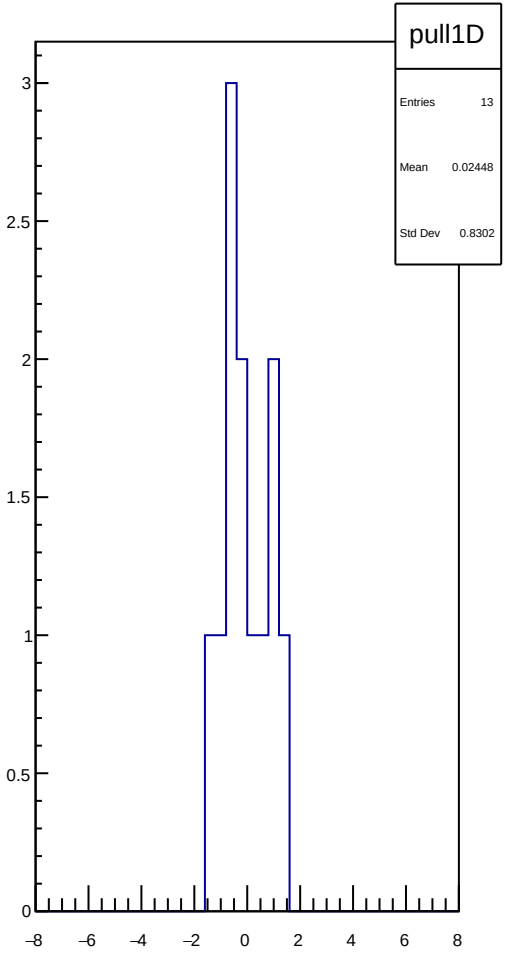

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 11.07 / 11
p0 −525.8 ± 3.733
0
−100
−200
−300
−400
−500
−600
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.00817
Std Dev 0.9602
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 14.82 / 11
p0 345 ± 26.71
500
400
300
200
100
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.08918
Std Dev 1.108
4
3.5
3
2.5
2
1.5
1
0.5
0
–8
–6
–4
–2
0
2
4
6
8


reg_asym_sam2_diff_bpm11X_slope vs run
χ² / ndf 8.278 / 11
p0 −45.61 ± 4.851
0
−20
−40
−60
−80
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.02448
Std Dev 0.8302
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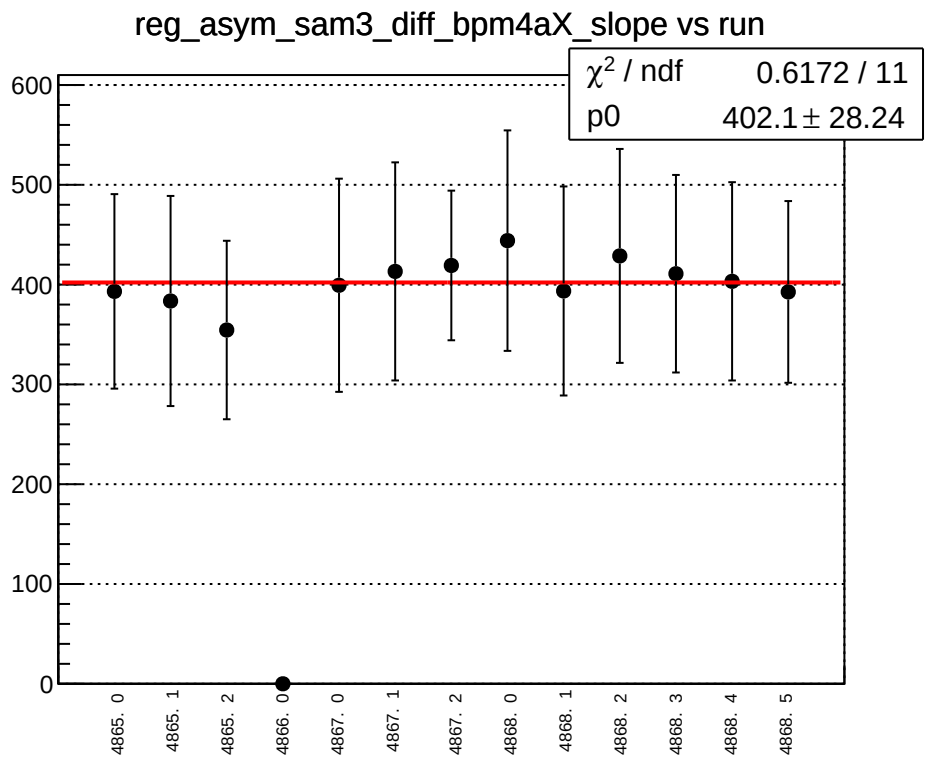
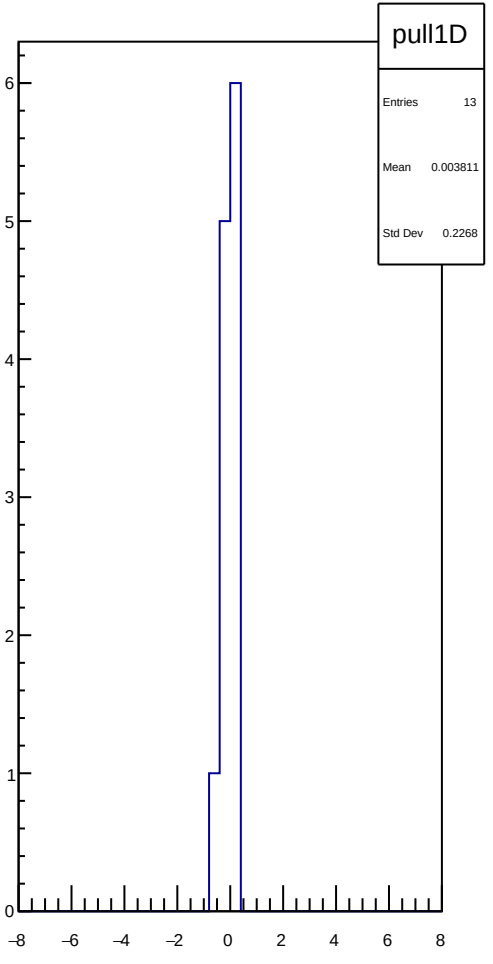
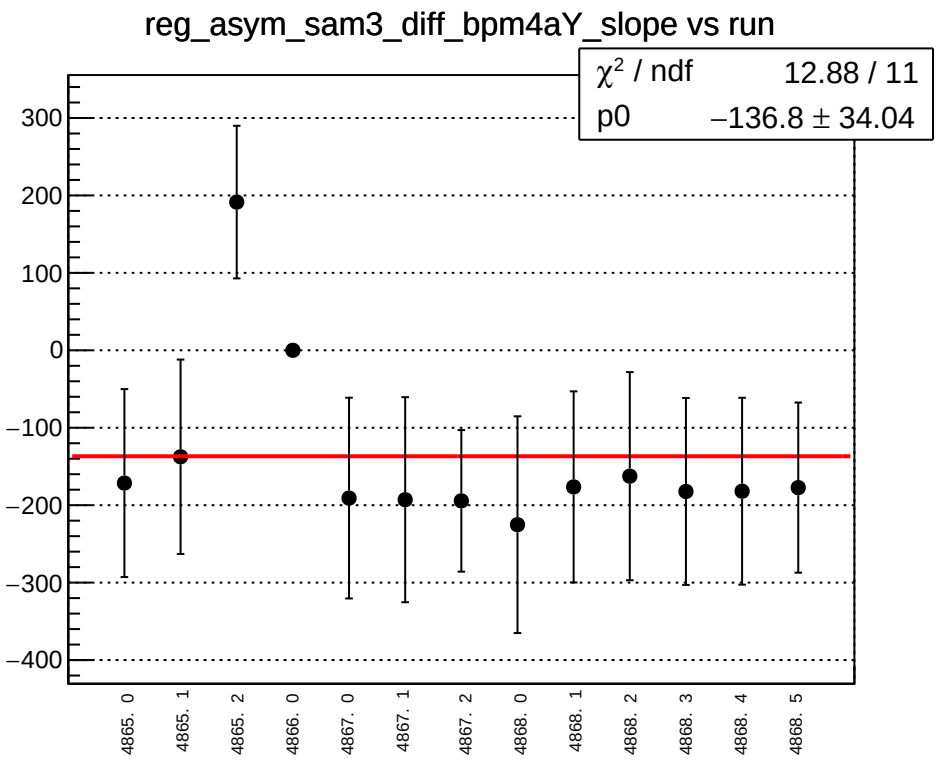
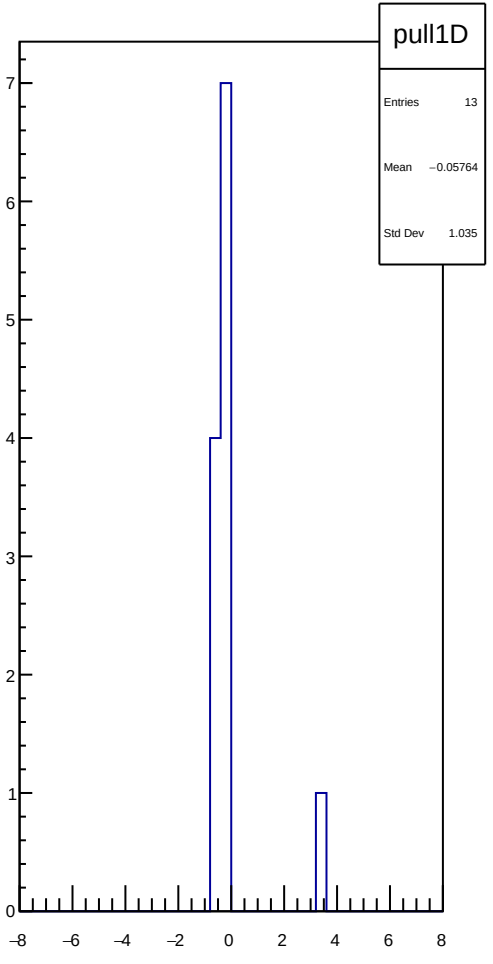
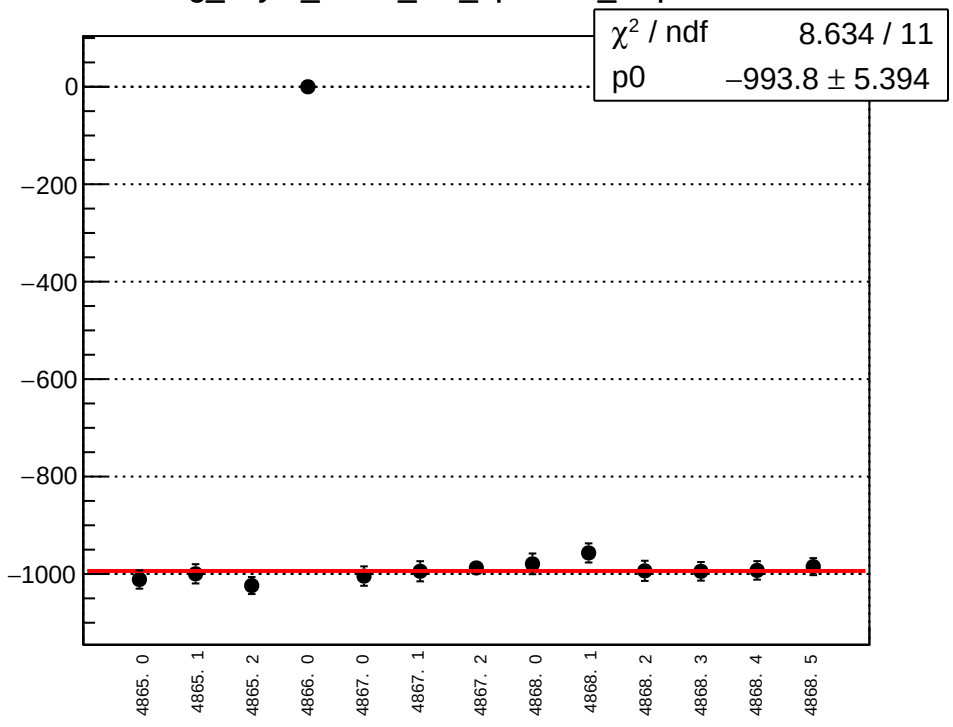
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

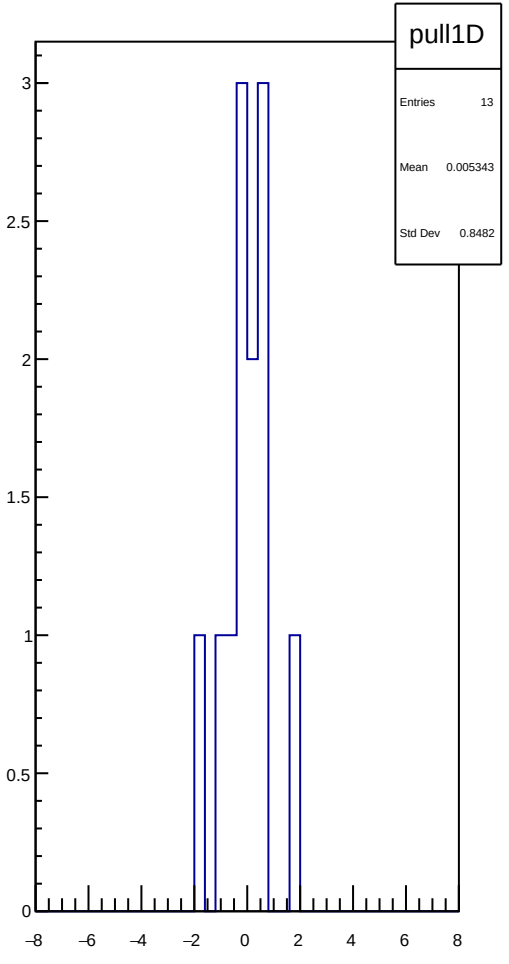

reg_asym_sam3_diff_bpm4aX_slope vs run
χ2 / ndf 0.6172 / 11
p0 402.1 ± 28.24
600
500
400
300
200
100
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.003811
Std Dev 0.2268
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 12.88 / 11
p0 −136.8 ± 34.04
300
200
100
0
−100
−200
−300
−400
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.05764
Std Dev 1.035
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 8.634 / 11
p0 −993.8 ± 5.394
0
−200
−400
−600
−800
−1000
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.005343
Std Dev 0.8482
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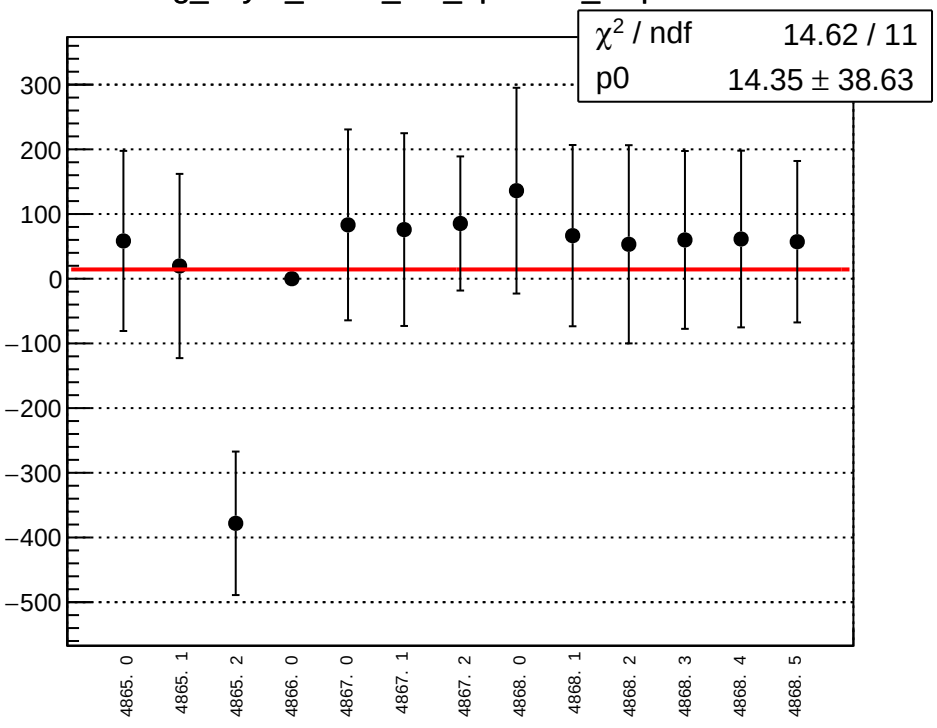
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 14.62 / 11
p0 14.35 ± 38.63
300
200
100
0
−100
−200
−300
−400
−500
4865. 0
4865. 1
4865. 2
4866. 0
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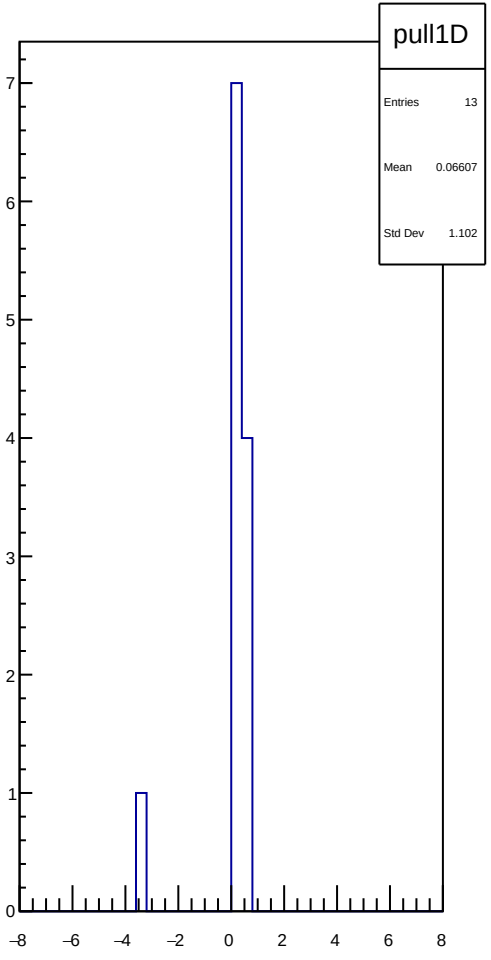
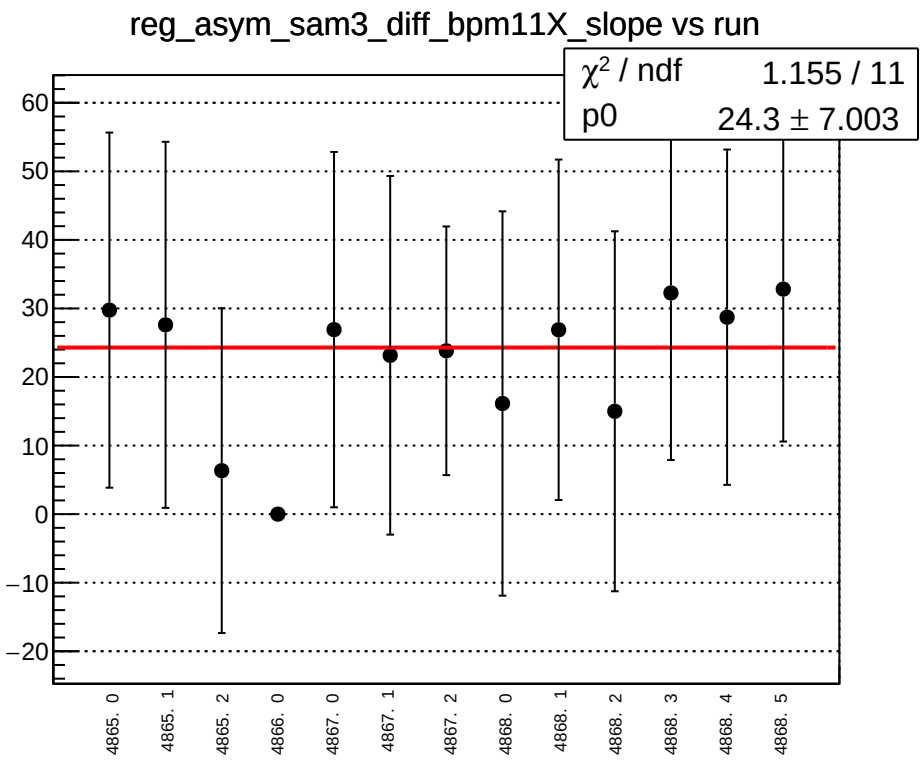
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.06607
Std Dev 1.102
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam3_diff_bpm11X_slope vs run
χ² / ndf 1.155 / 11
p0 24.3 ± 7.003
60
50
40
30
20
10
0
−10
−20
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
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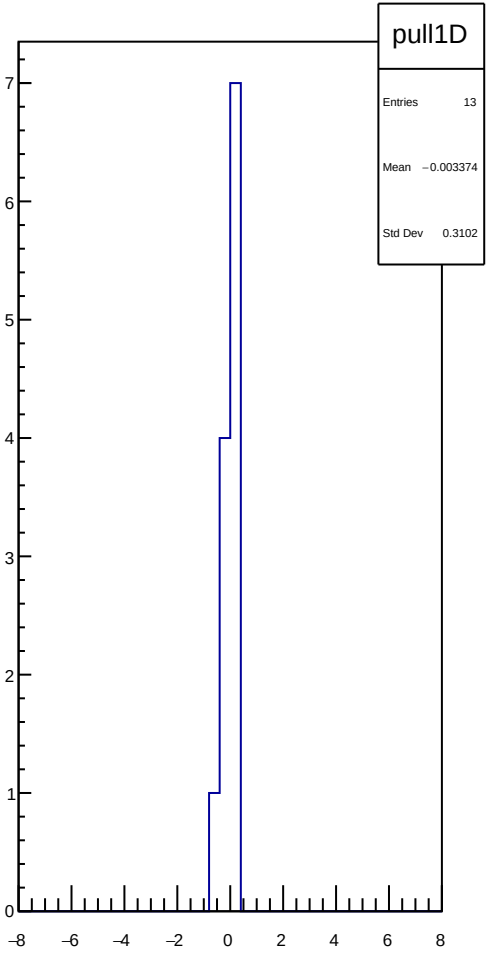
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.003374
Std Dev 0.3102
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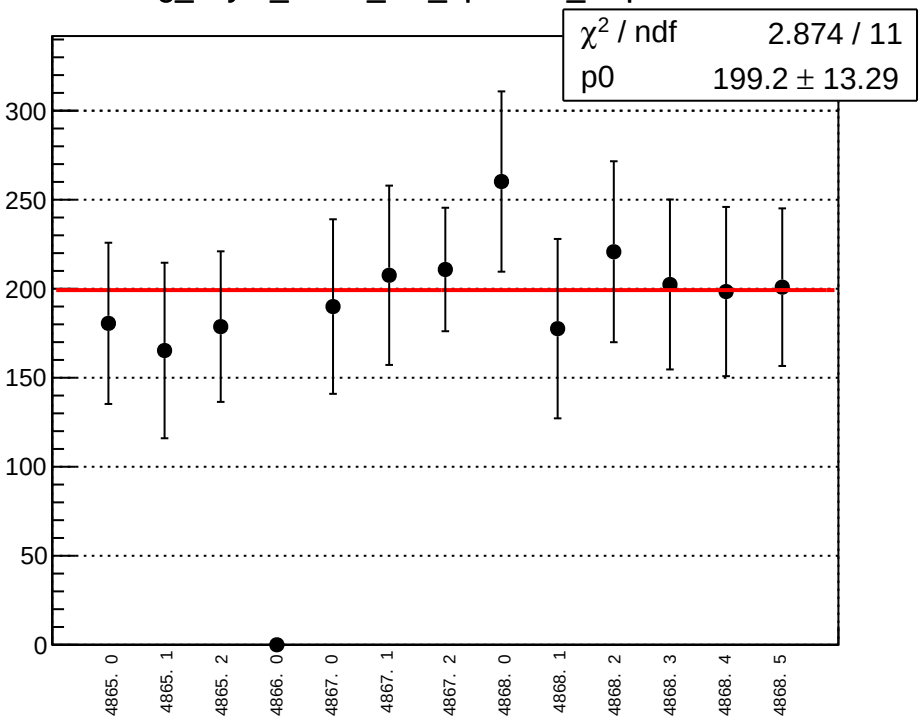
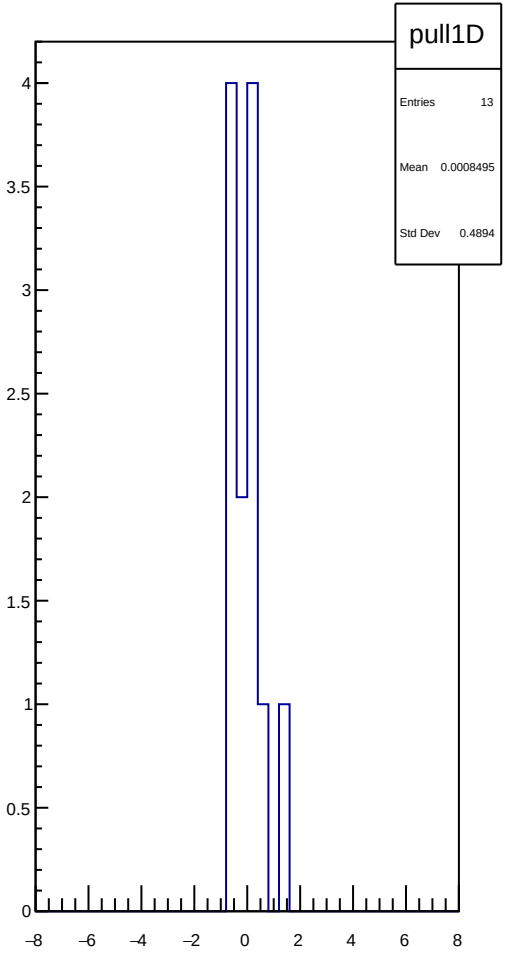
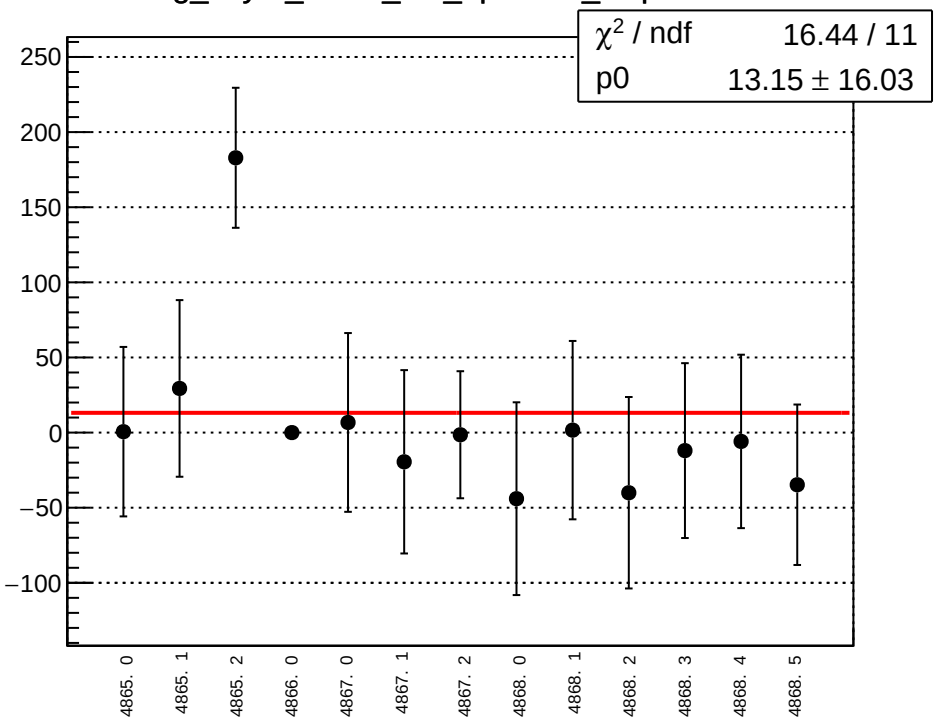
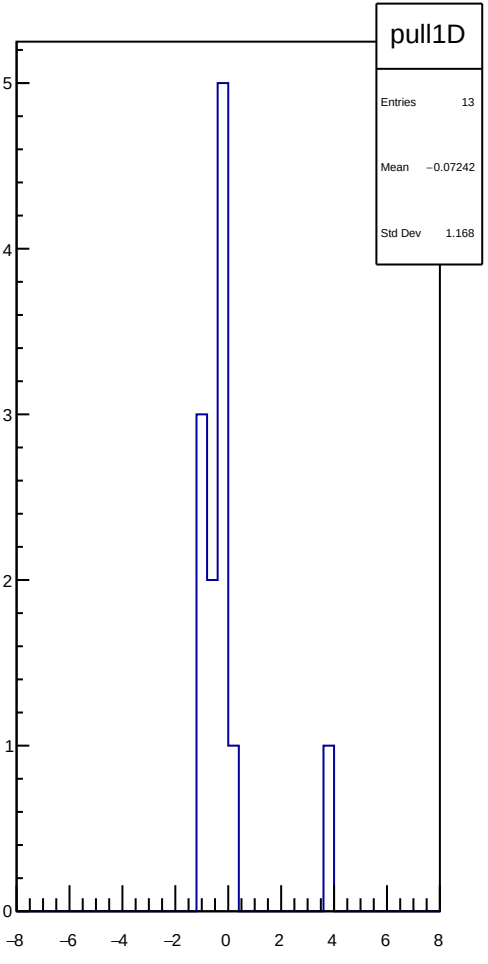
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 2.874 / 11
p0 199.2 ± 13.29
300
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.0008495
Std Dev 0.4894
4
3.5
3
2.5
2
1.5
1
0.5
0
–8
–6
–4
–2
0
2
4
6
8


reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 16.44 / 11
p0 13.15 ± 16.03
250
200
150
100
50
0
−50
−100
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.07242
Std Dev 1.168
5
4
3
2
1
0
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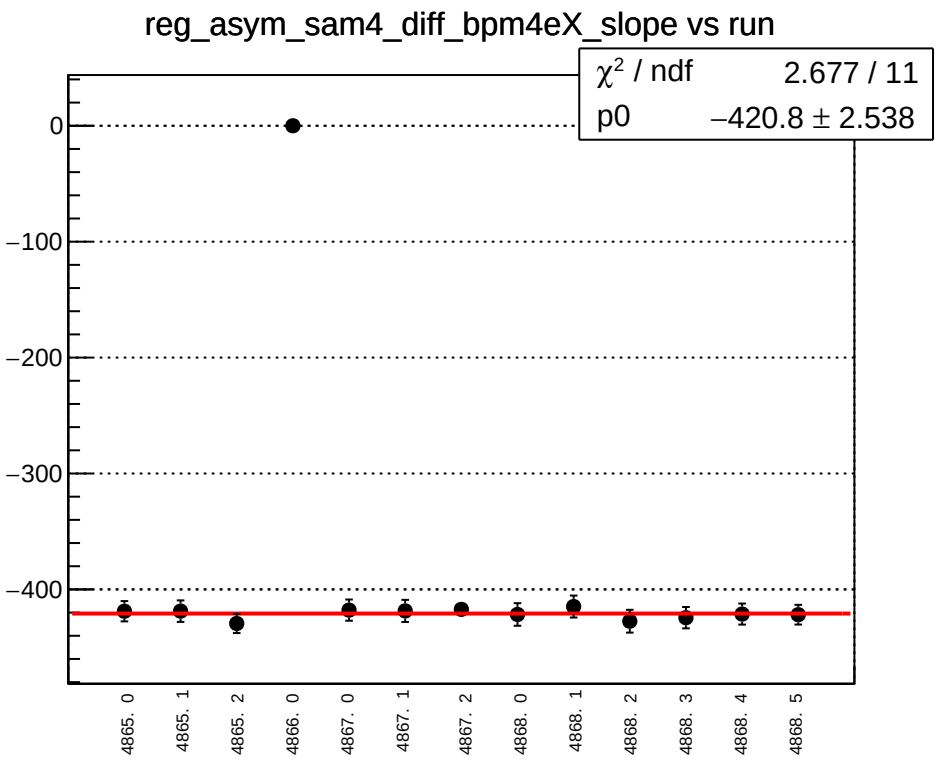
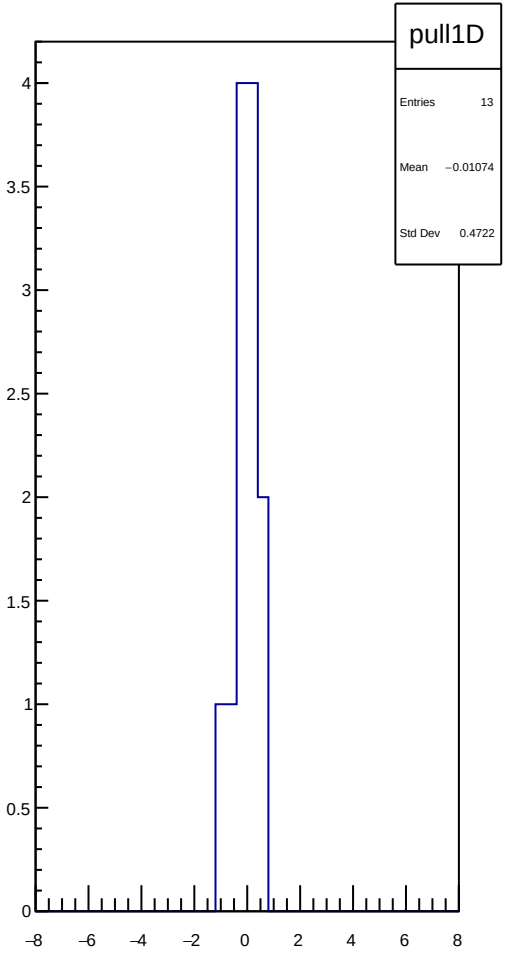
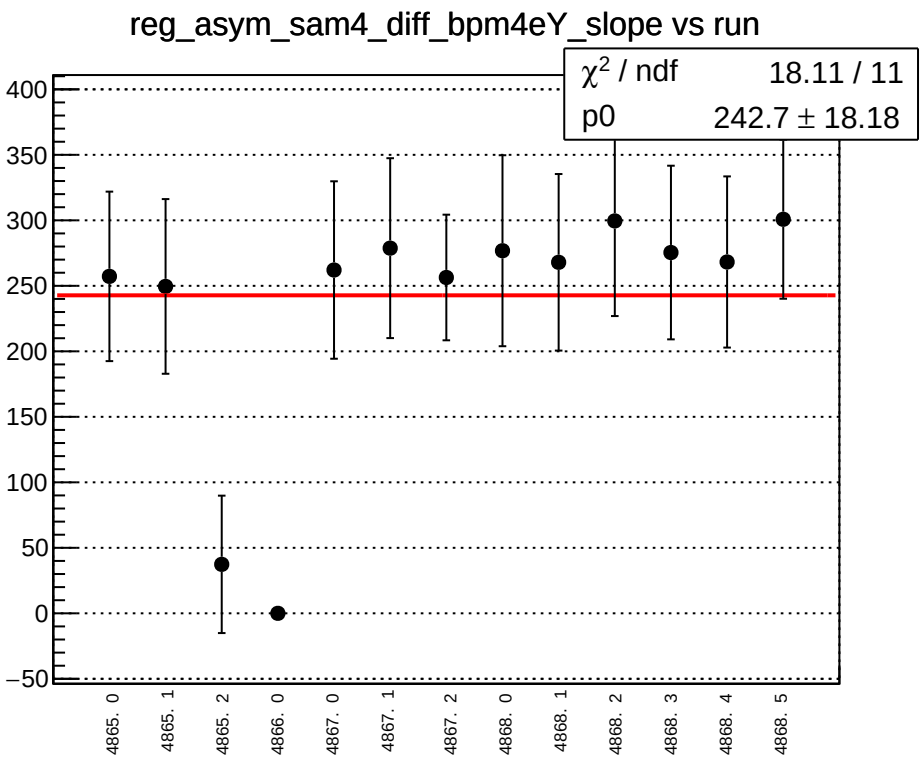
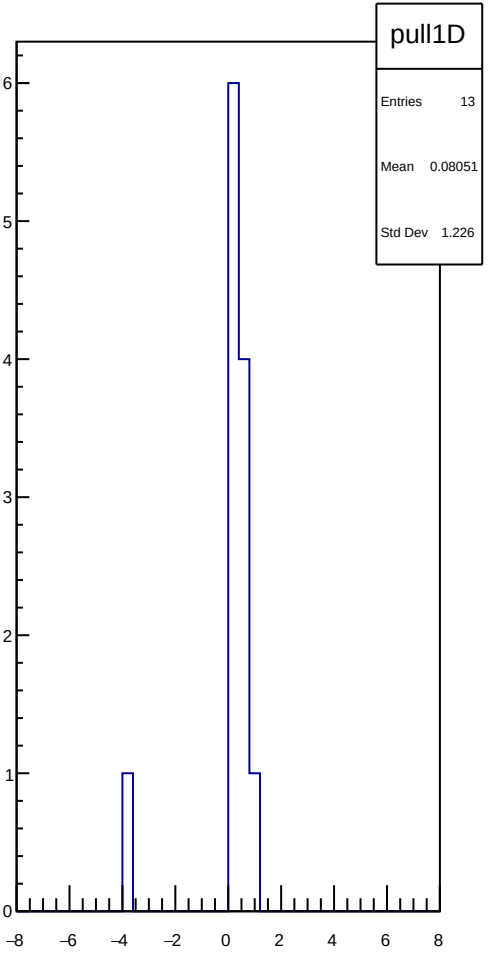
−6
−4
−2
0
2
4
6
8


reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 2.677 / 11
p0 −420.8 ± 2.538
0
−100
−200
−300
−400
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.01074
Std Dev 0.4722
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 18.11 / 11
p0 242.7 ± 18.18
400
350
300
250
200
150
100
50
0
−50
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.08051
Std Dev 1.226
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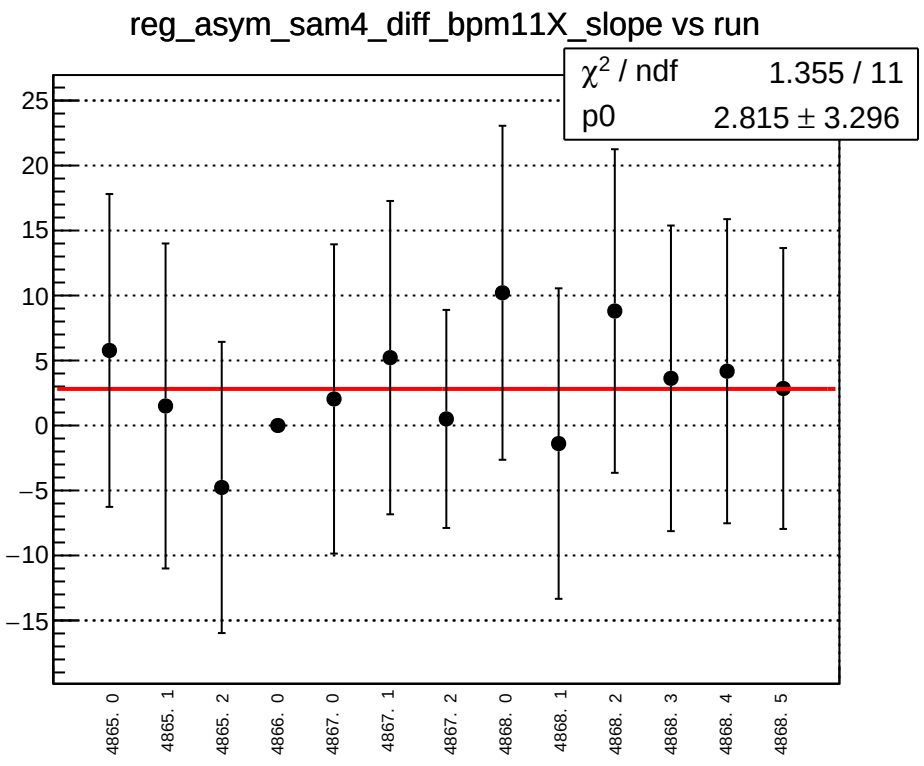
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam4_diff_bpm11X_slope vs run
χ² / ndf 1.355 / 11
p0 2.815 ± 3.296
25
20
15
10
5
0
−5
−10
−15
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
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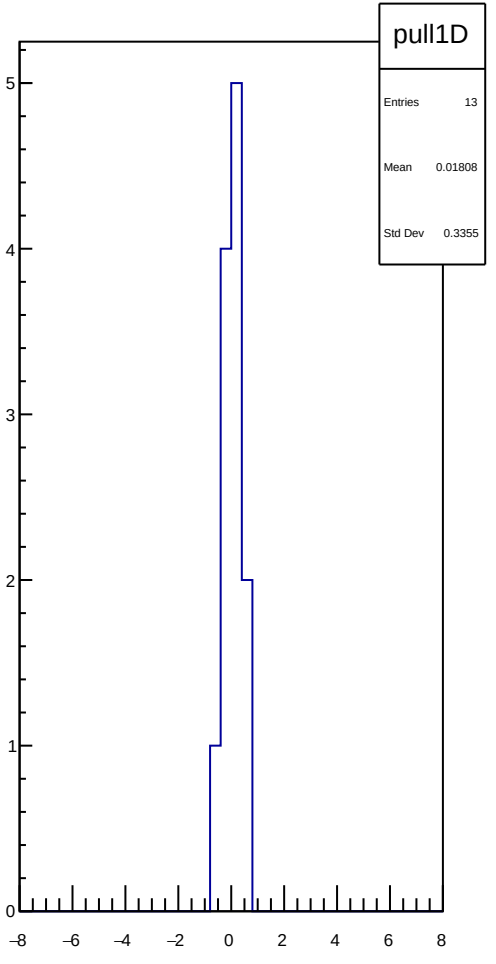
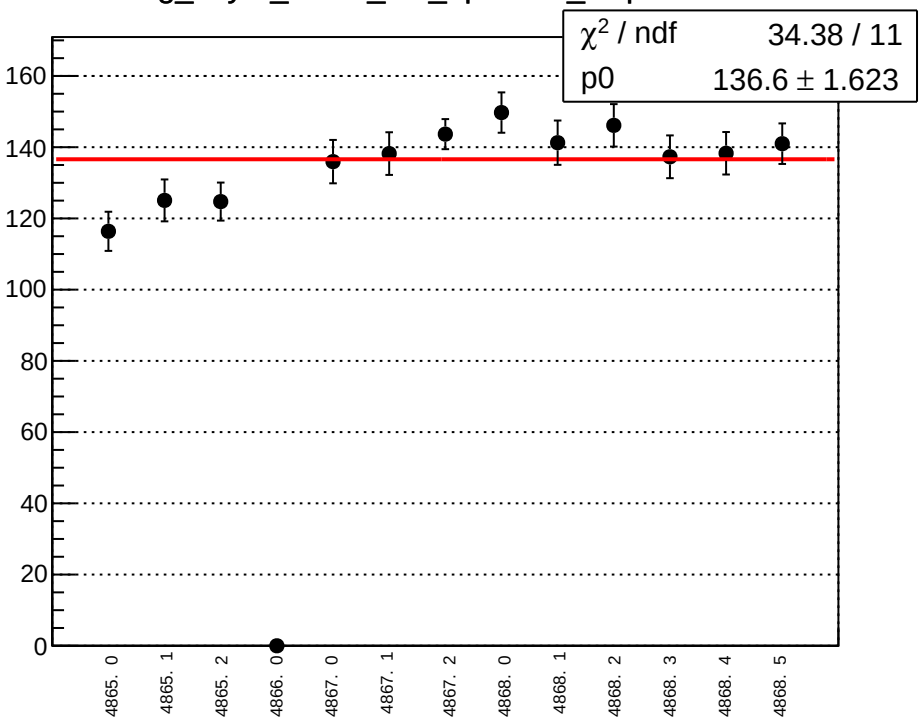
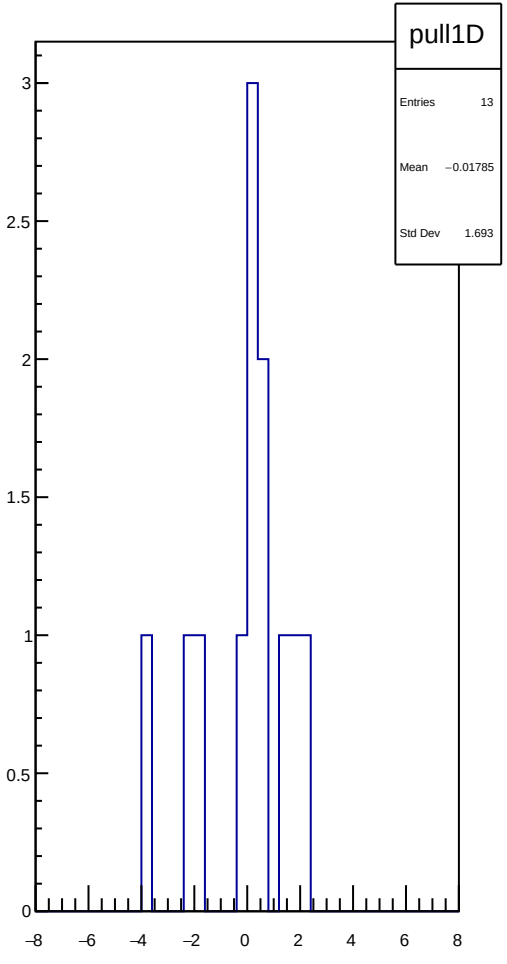
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.01808
Std Dev 0.3355
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 34.38 / 11
p0 136.6 ± 1.623
160
140
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.01785
Std Dev 1.693
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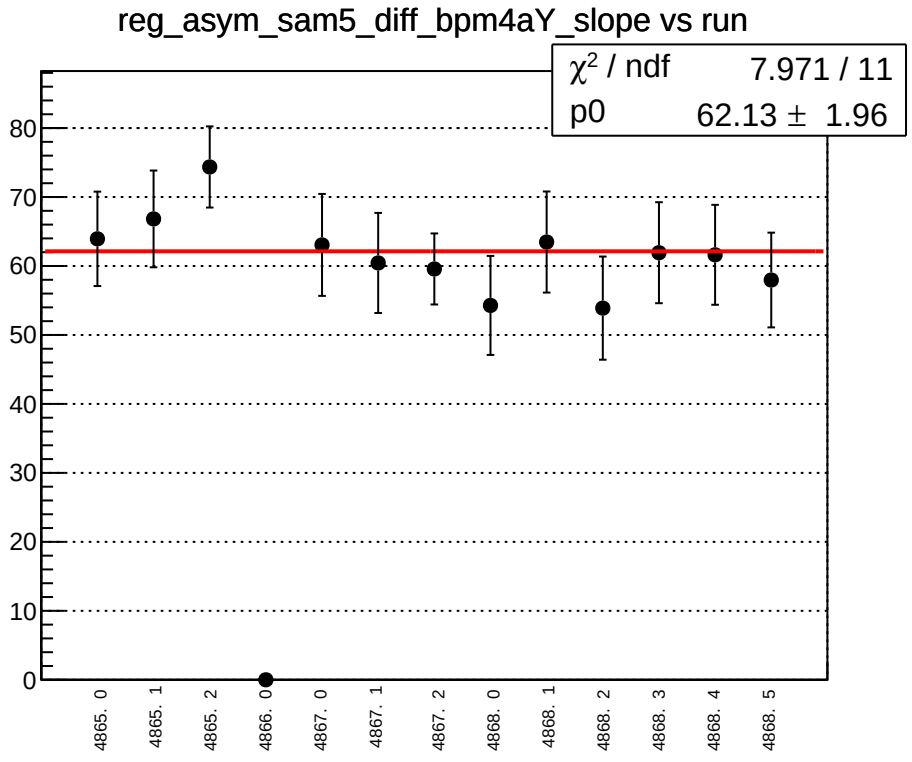
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 7.971 / 11
p0 62.13 ± 1.96
80
70
60
50
40
30
20
10
0
4865. 0
4865. 1
4865. 2
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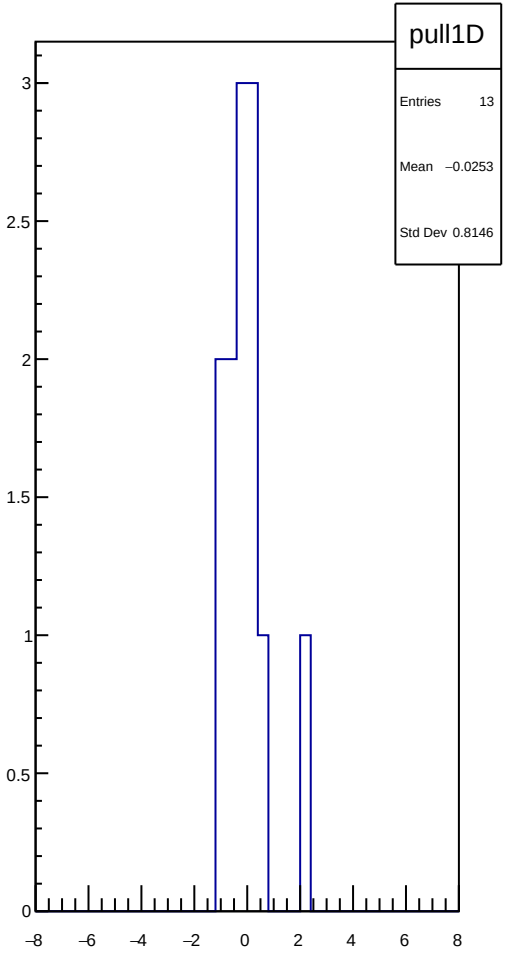
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.0253
Std Dev 0.8146
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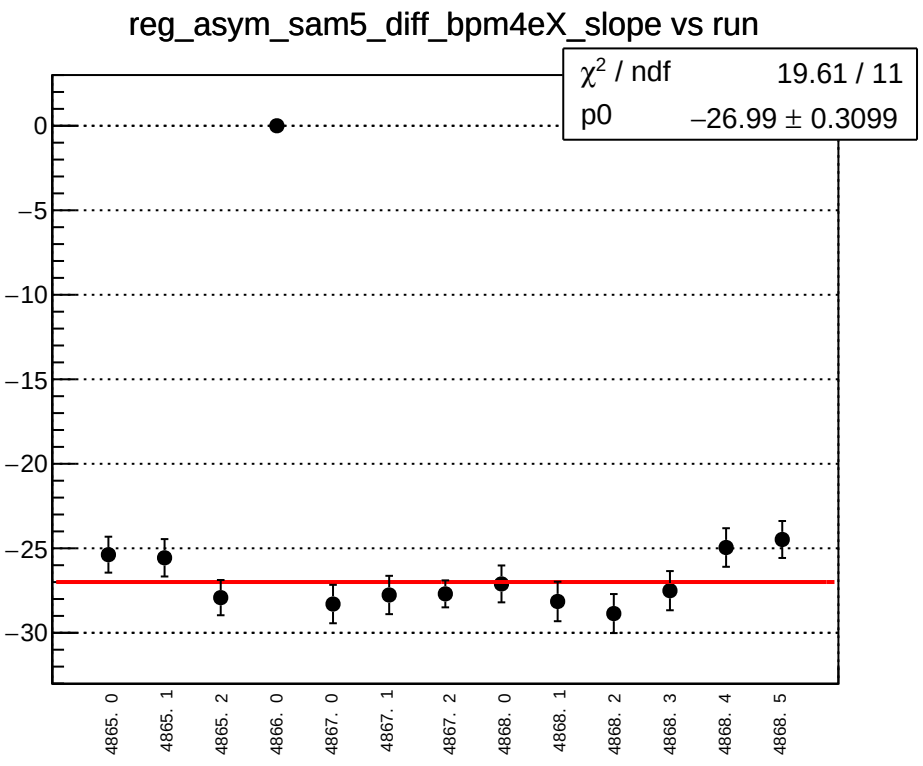
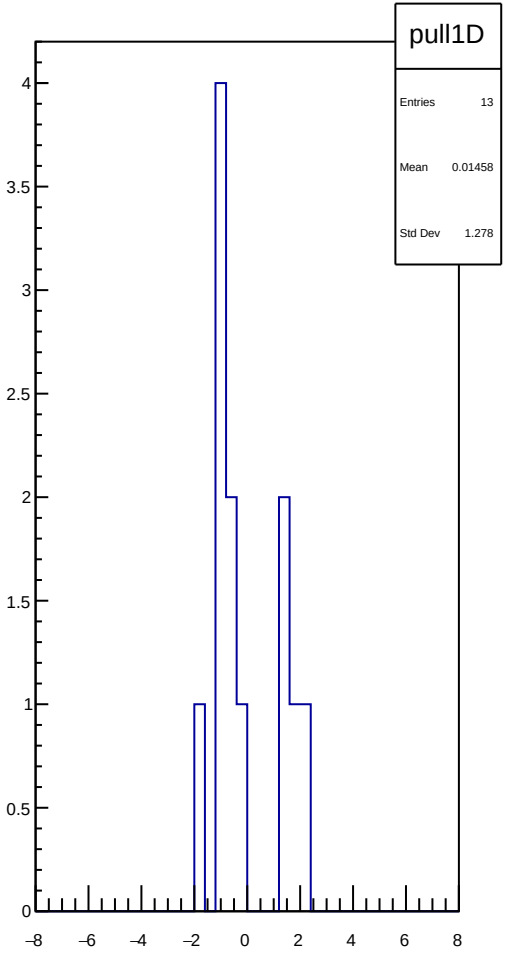
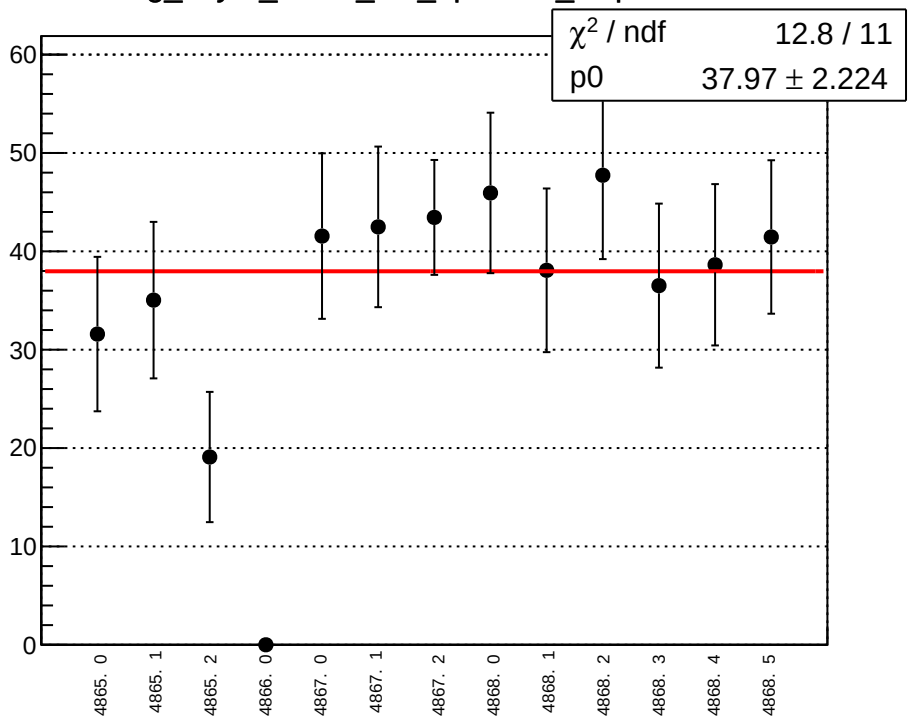
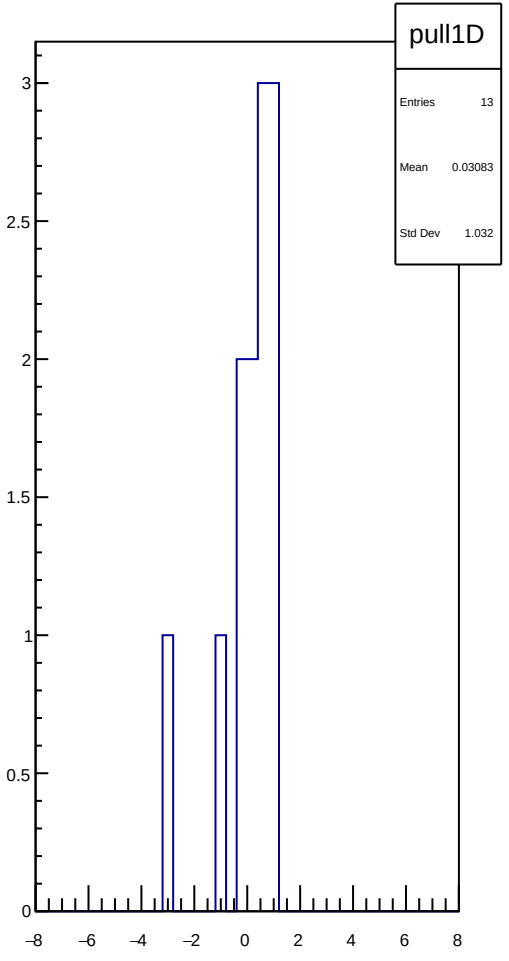
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 19.61 / 11
p0 −26.99 ± 0.3099
0
−5
−10
−15
−20
−25
−30
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.01458
Std Dev 1.278
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 12.8 / 11
p0 37.97 ± 2.224
60
50
40
30
20
10
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.03083
Std Dev 1.032
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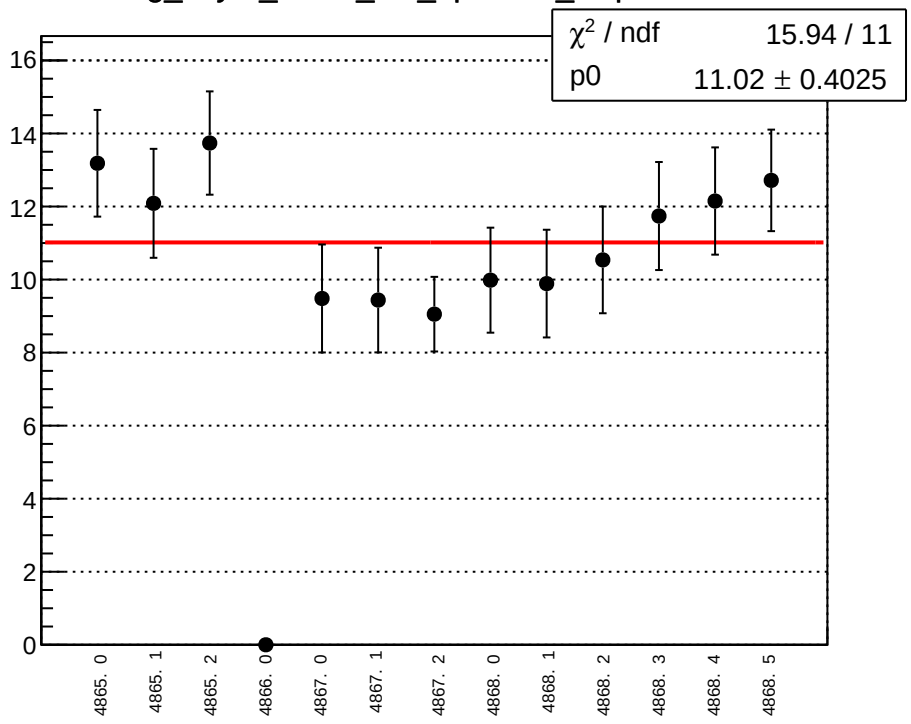
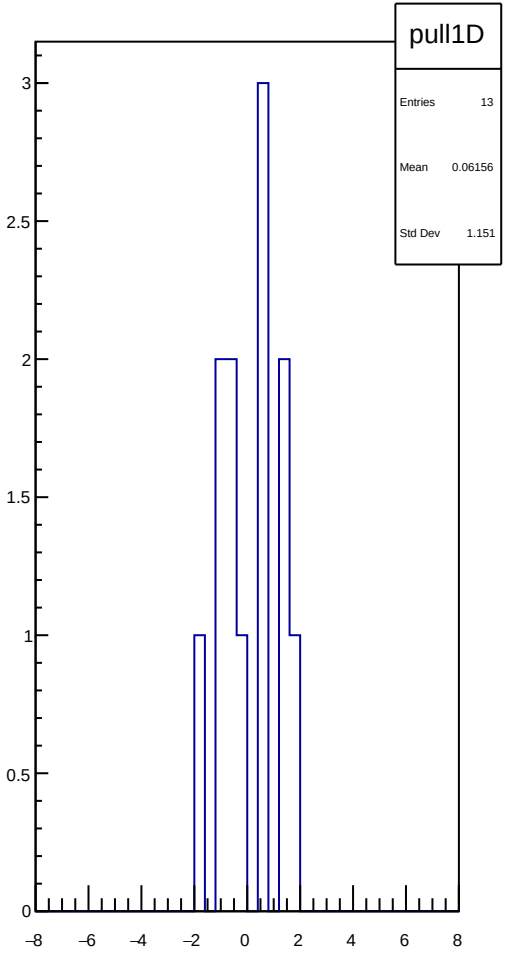
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam5_diff_bpm11X_slope vs run
χ² / ndf 15.94 / 11
p0 11.02 ± 0.4025
16
14
12
10
8
6
4
2
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.06156
Std Dev 1.151
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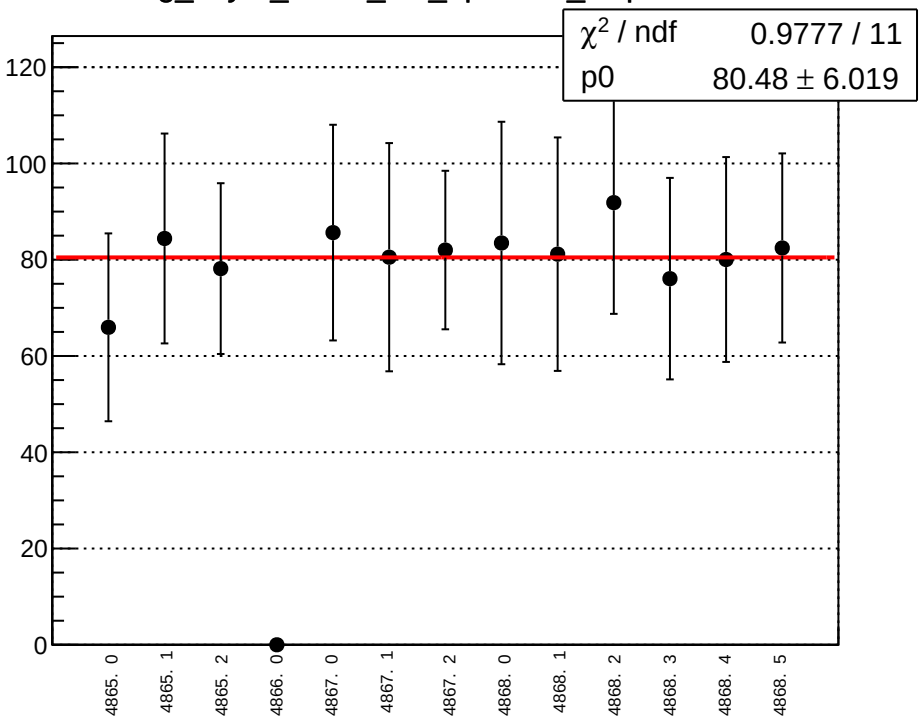
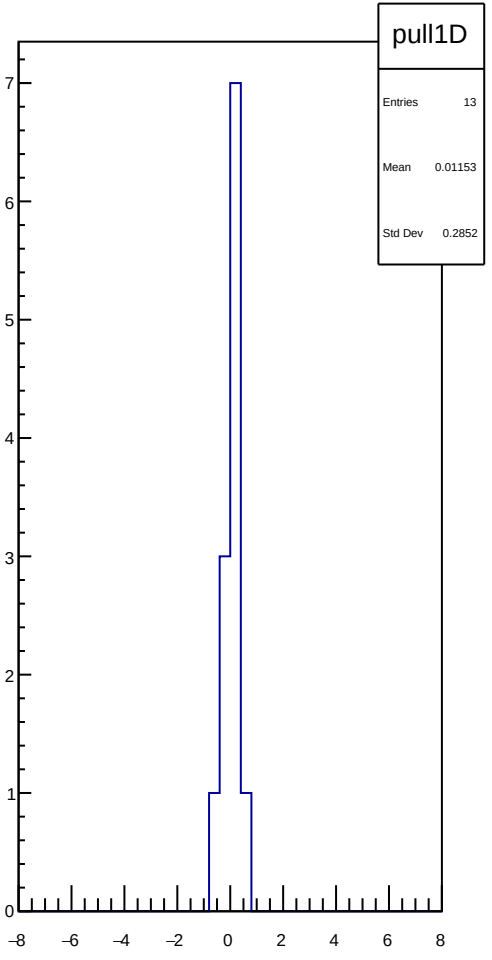
2.5
2
1.5
1
0.5
0
–8
–6
–4
–2
0
2
4
6
8


reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 0.9777 / 11
p0 80.48 ± 6.019
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.01153
Std Dev 0.2852
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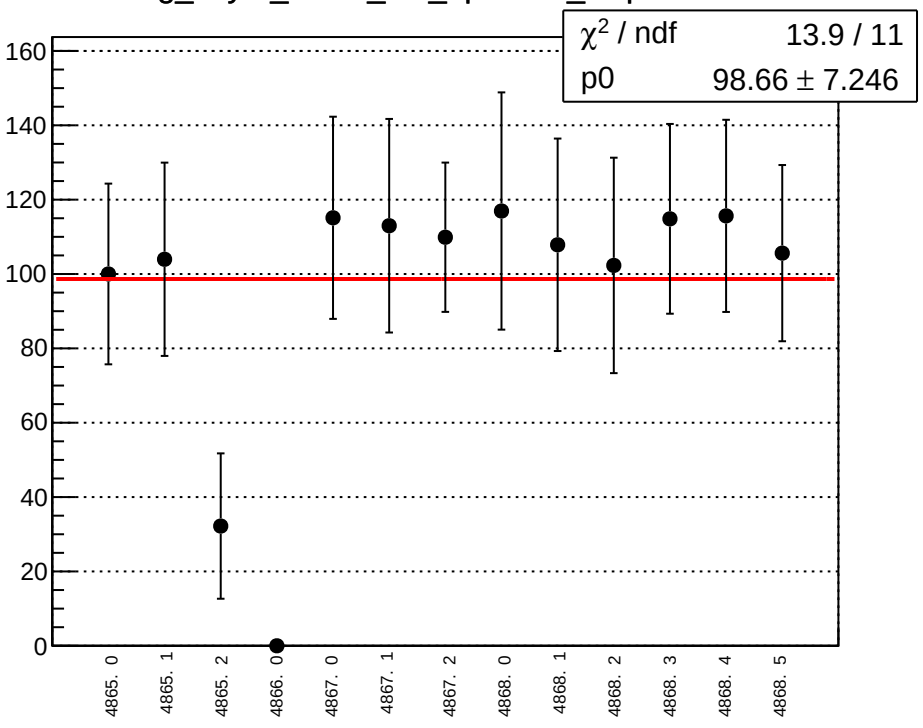
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 13.9 / 11
p0 98.66 ± 7.246
160
140
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
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4867. 2
4868. 0
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4868. 2
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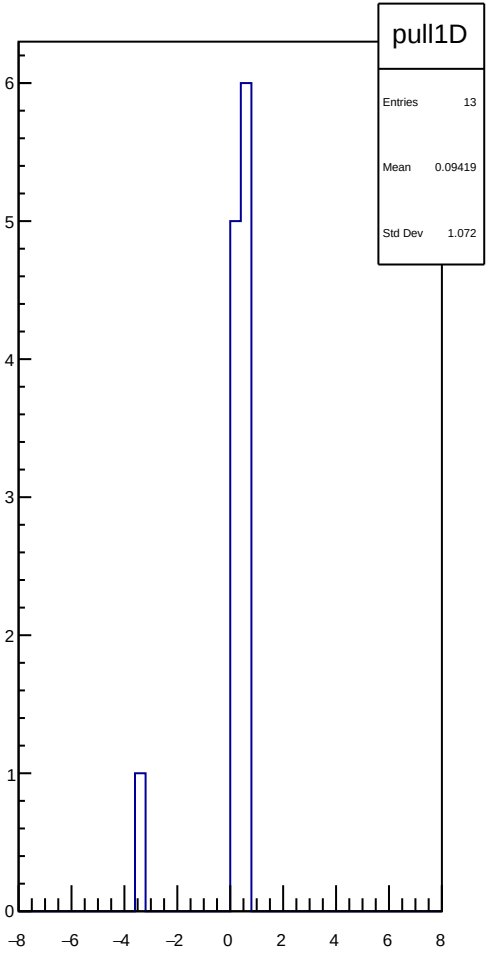
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.09419
Std Dev 1.072
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5
4
3
2
1
0
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–6
–4
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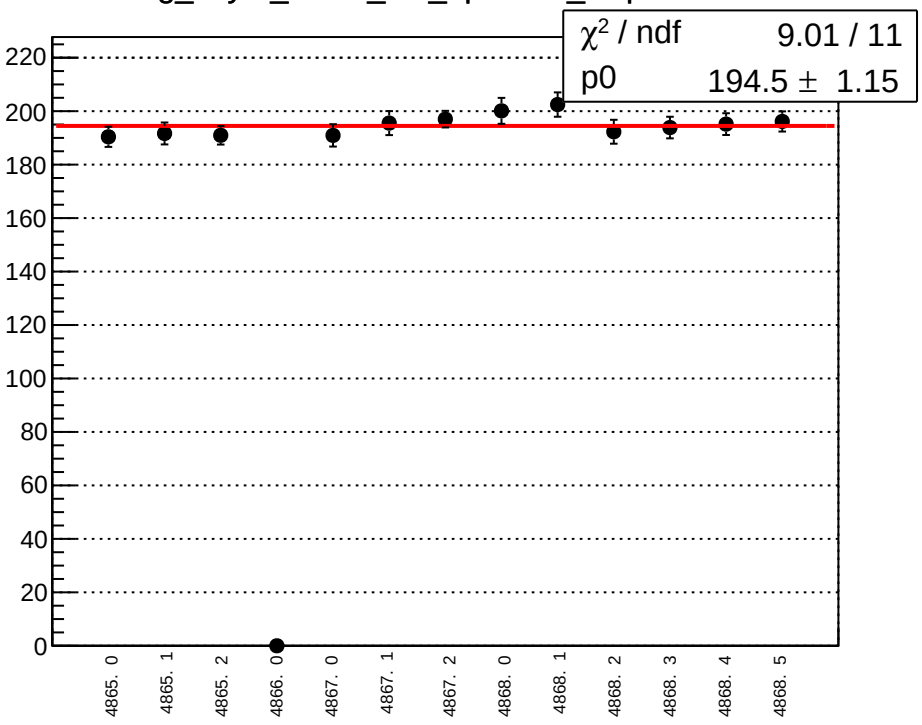
0
2
4
6
8


reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 9.01 / 11
p0 194.5 ± 1.15
220
200
180
160
140
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
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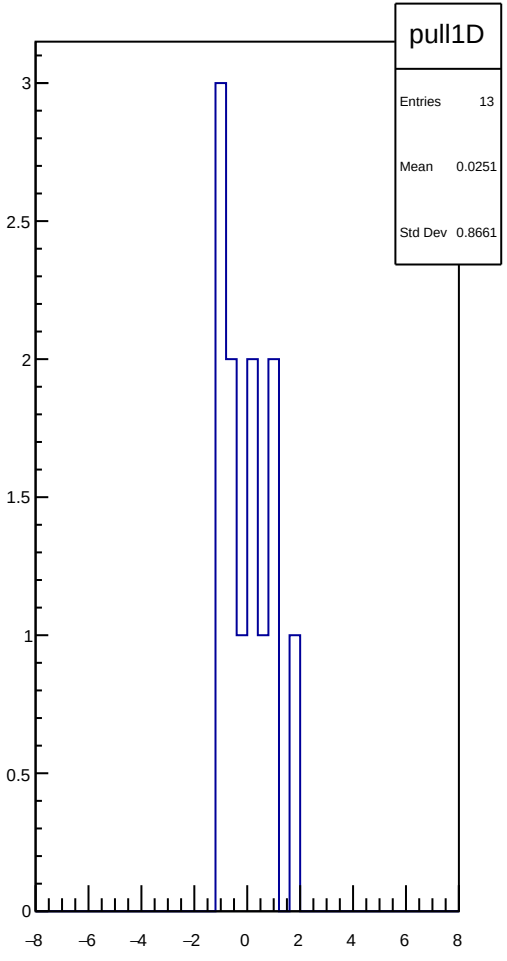
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.0251
Std Dev 0.8661
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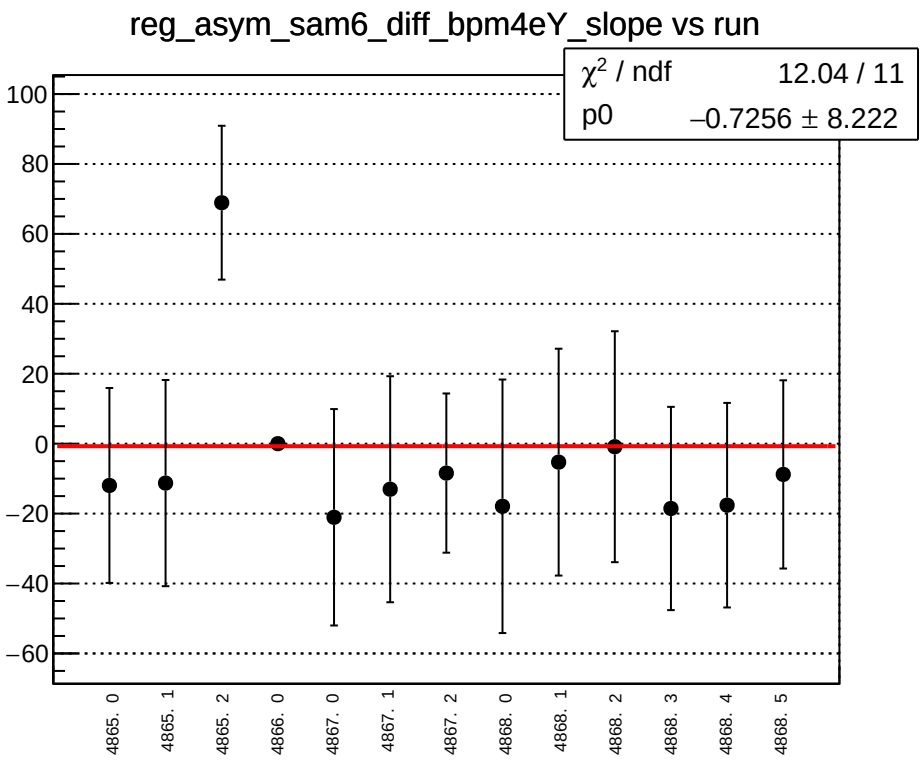
2.5
2
1.5
1
0.5
0
–8
–6
–4
–2
0
2
4
6
8


reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 12.04 / 11
p0 −0.7256 ± 8.222
100
80
60
40
20
0
−20
−40
−60
4865. 0
4865. 1
4865. 2
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4867. 1
4867. 2
4868. 0
4868. 1
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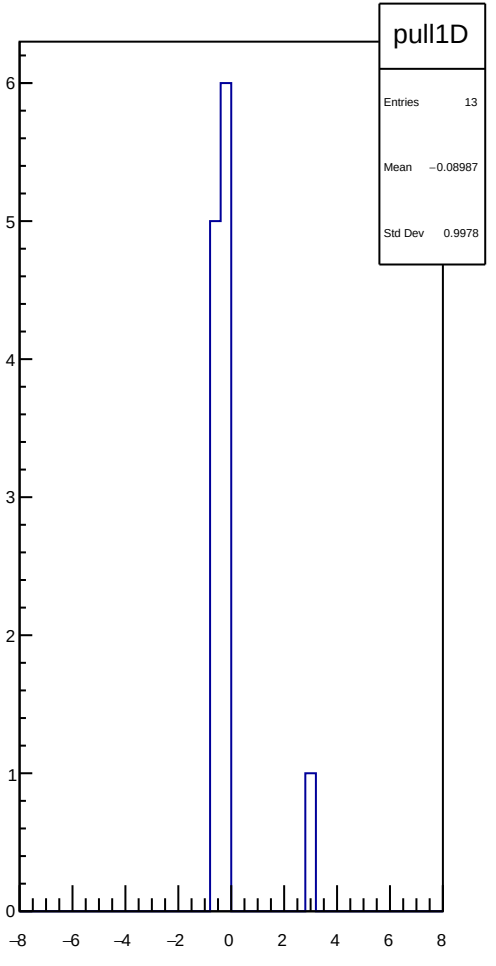
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.08987
Std Dev 0.9978
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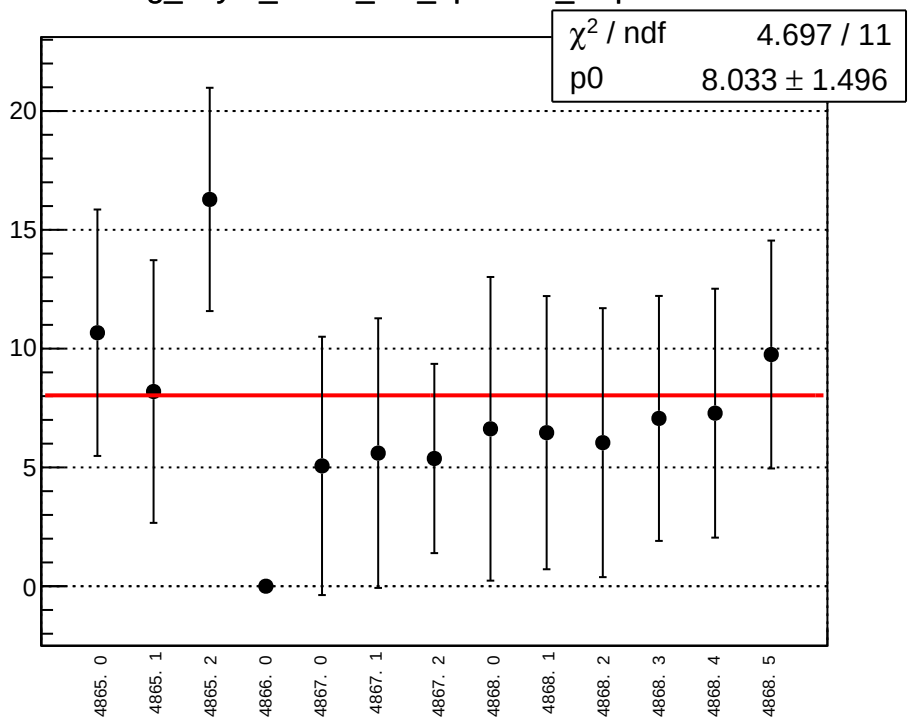
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam6_diff_bpm11X_slope vs run
χ² / ndf 4.697 / 11
p0 8.033 ± 1.496
20
15
10
5
0
4865. 0
4865. 1
4865. 2
4866. 0
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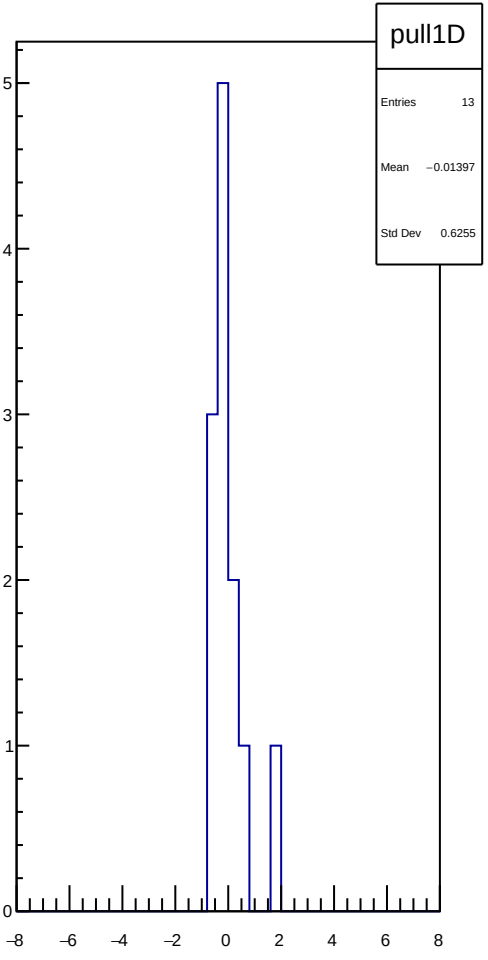
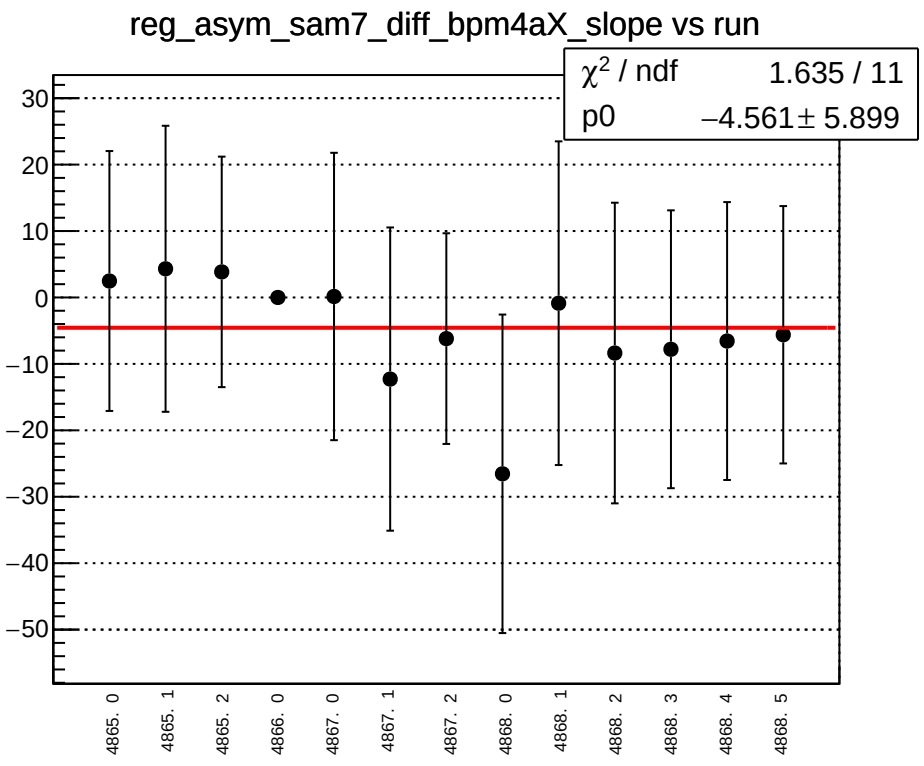
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.01397
Std Dev 0.6255
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 1.635 / 11
p0 −4.561 ± 5.899
30
20
10
0
−10
−20
−30
−40
−50
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
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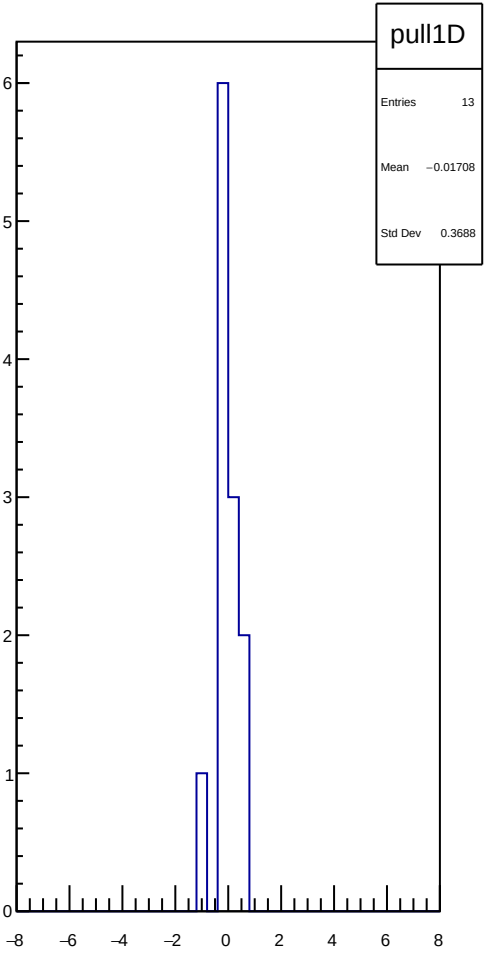
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.01708
Std Dev 0.3688
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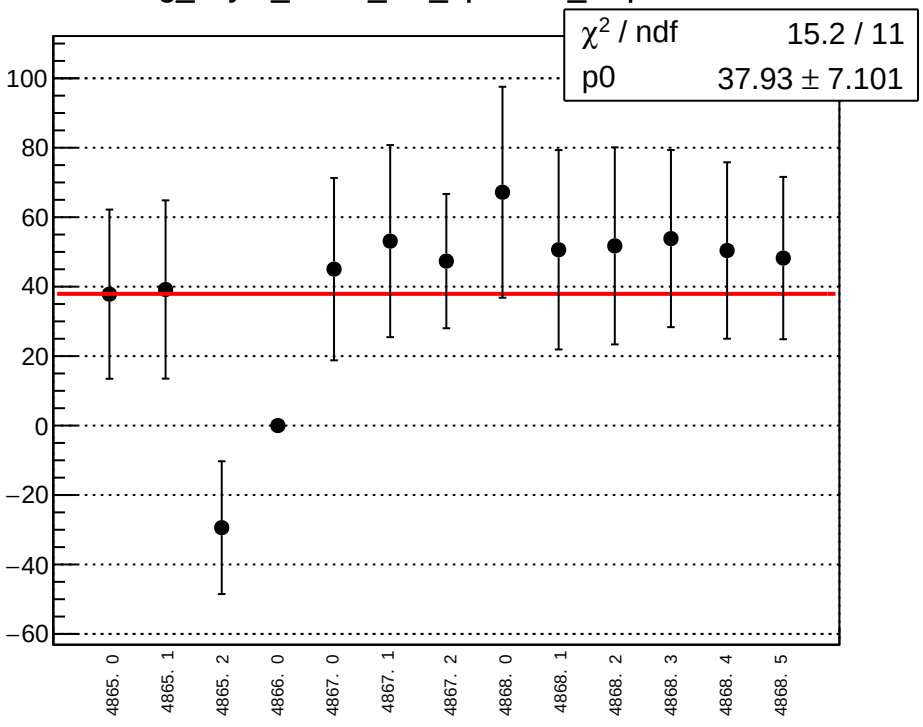
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 15.2 / 11
p0 37.93 ± 7.101
100
80
60
40
20
0
−20
−40
−60
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
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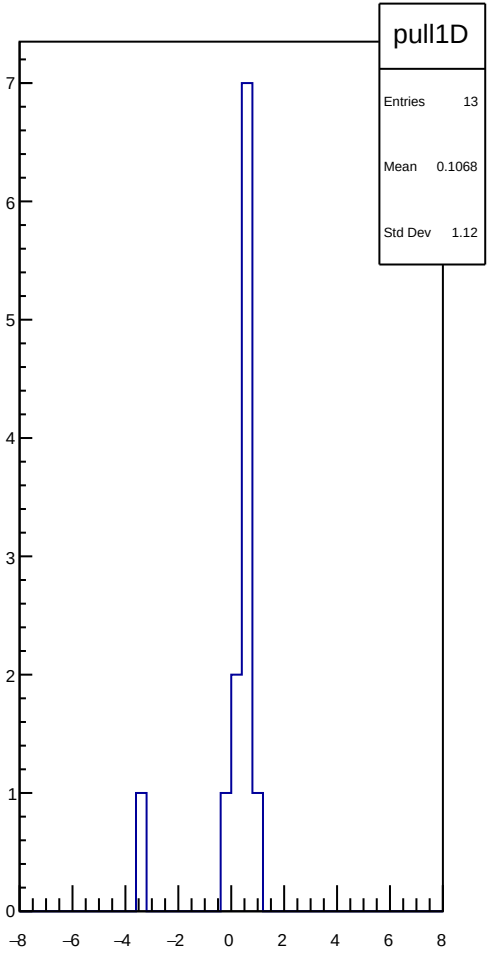
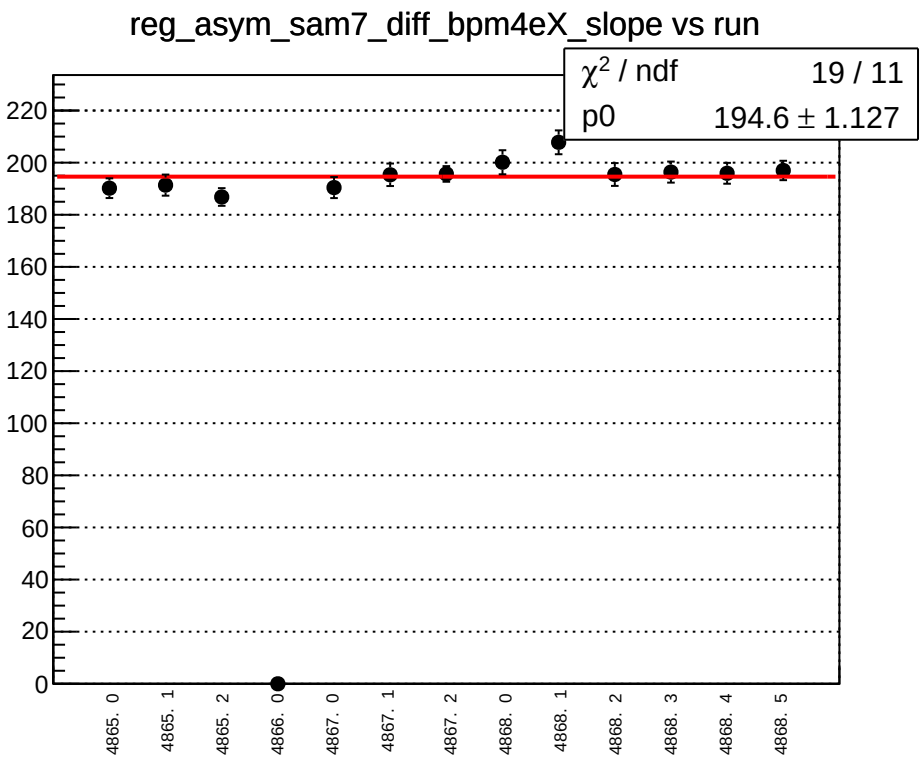
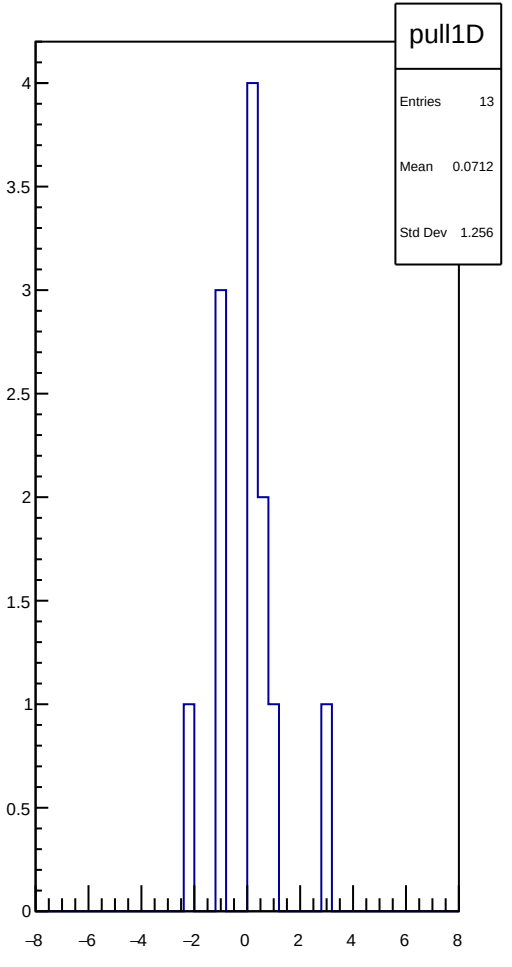
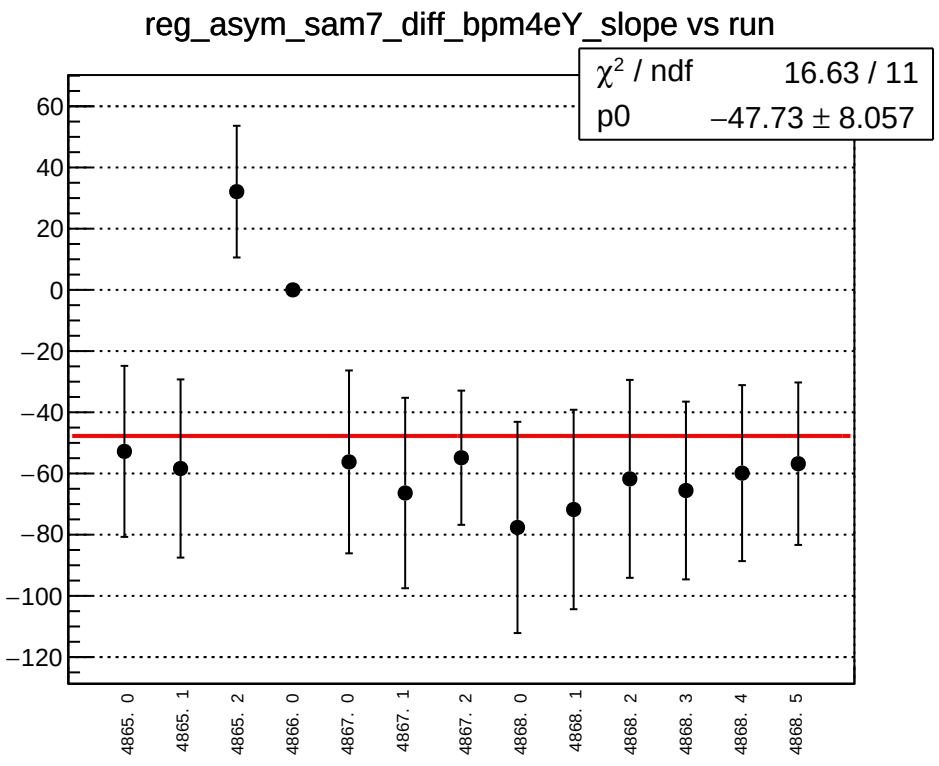
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.1068
Std Dev 1.12
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 19 / 11
p0 194.6 ± 1.127
220
200
180
160
140
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.0712
Std Dev 1.256
4
3.5
3
2.5
2
1.5
1
0.5
0
–8
–6
–4
–2
0
2
4
6
8


reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 16.63 / 11
p0 −47.73 ± 8.057
60
40
20
0
−20
−40
−60
−80
−100
−120
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
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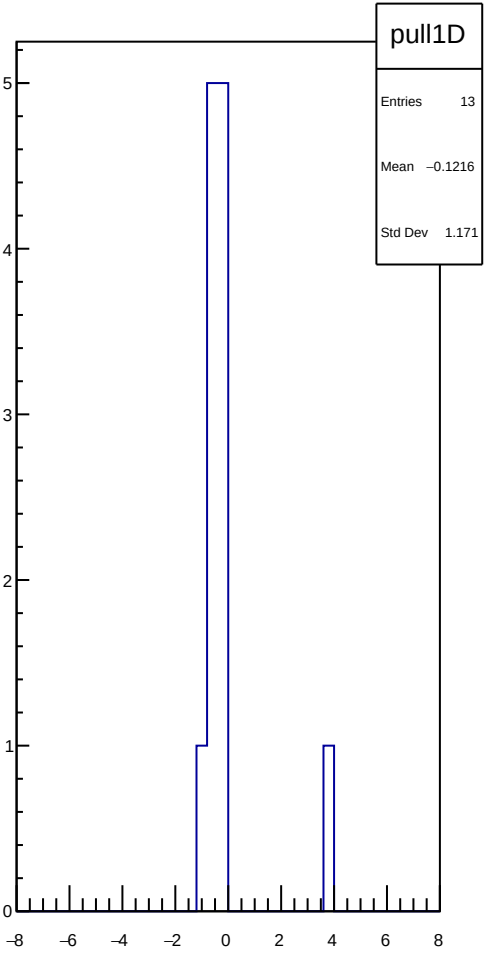
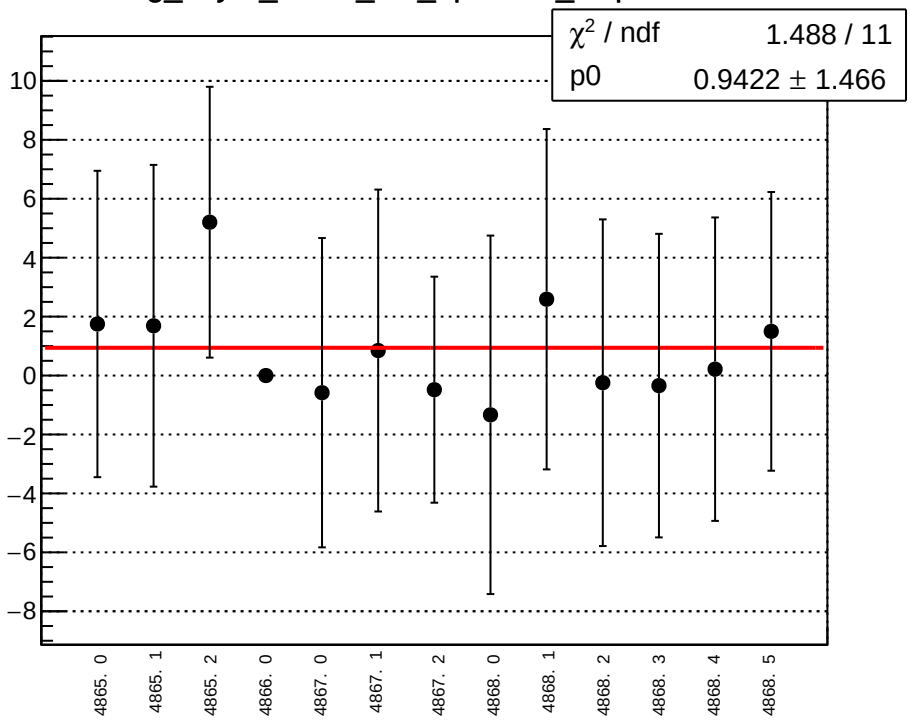
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.1216
Std Dev 1.171
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam7_diff_bpm11X_slope vs run
χ² / ndf 1.488 / 11
p0 0.9422 ± 1.466
10
8
6
4
2
0
−2
−4
−6
−8
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
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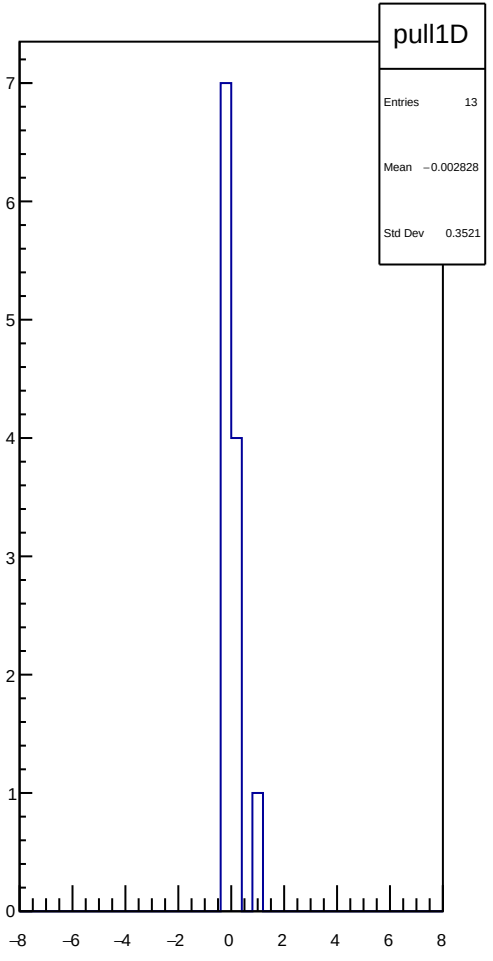
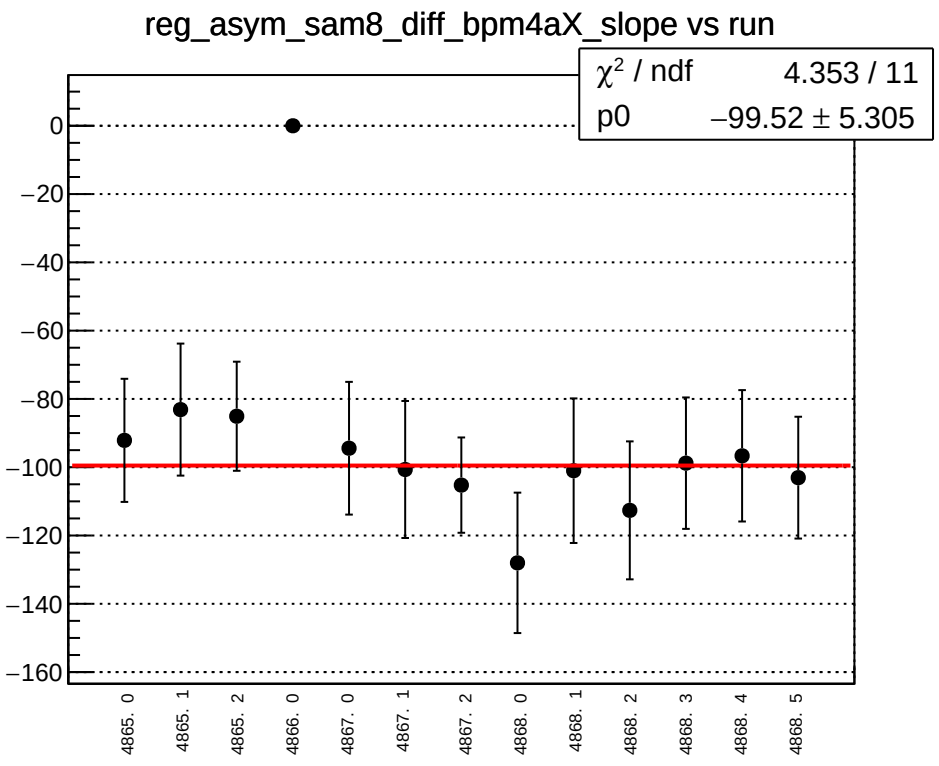
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.002828
Std Dev 0.3521
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 4.353 / 11
p0 −99.52 ± 5.305
0
−20
−40
−60
−80
−100
−120
−140
−160
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
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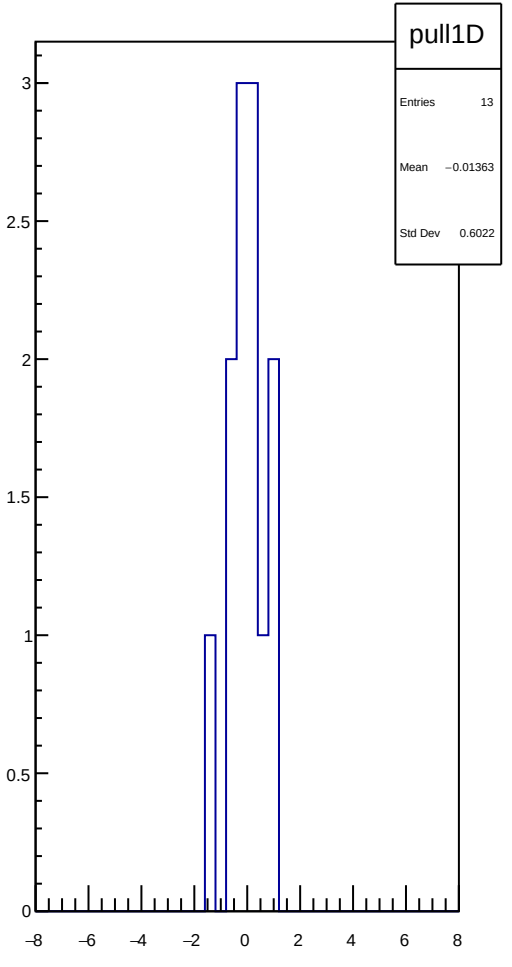
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.01363
Std Dev 0.6022
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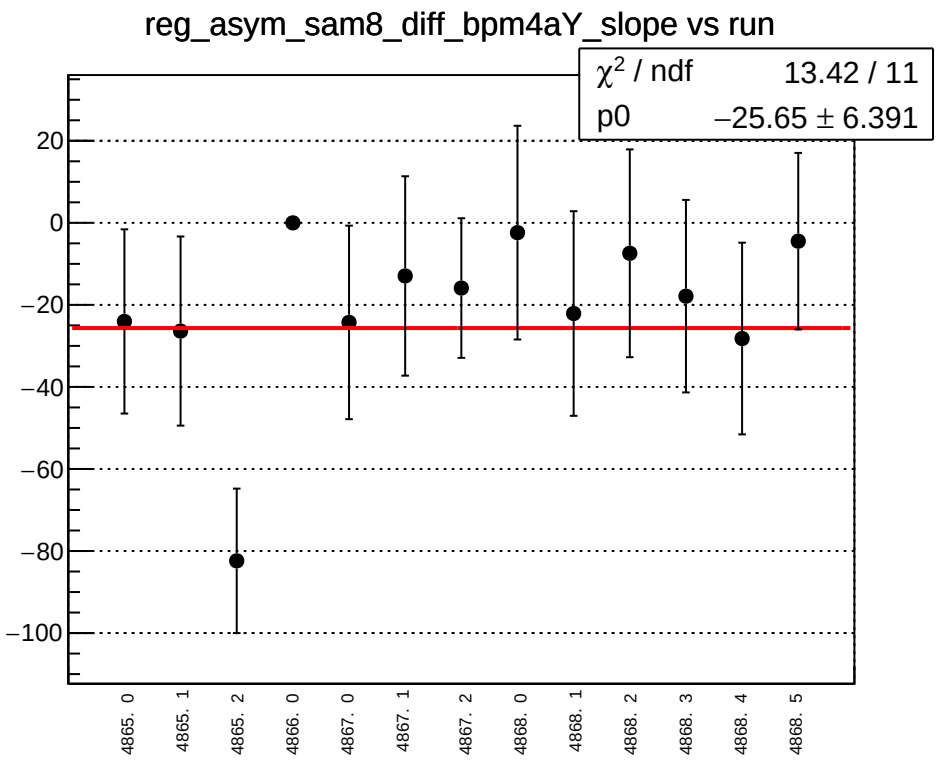
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 13.42 / 11
p0 −25.65 ± 6.391
20
0
−20
−40
−60
−80
−100
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
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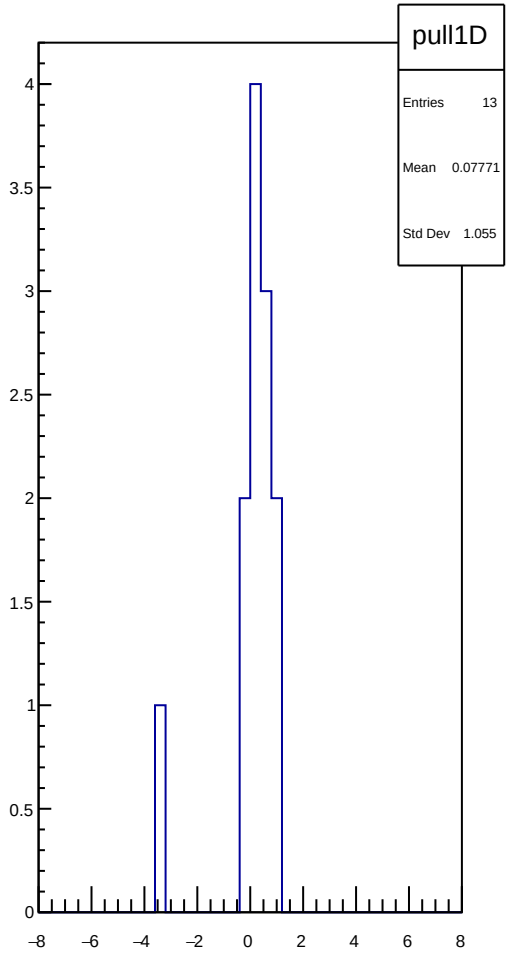
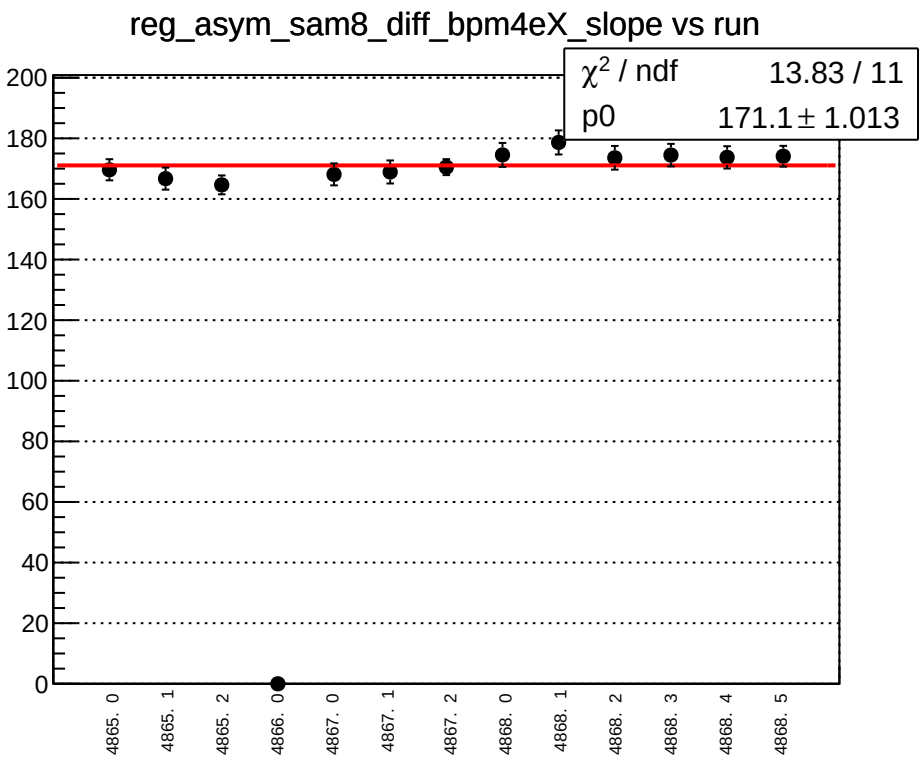
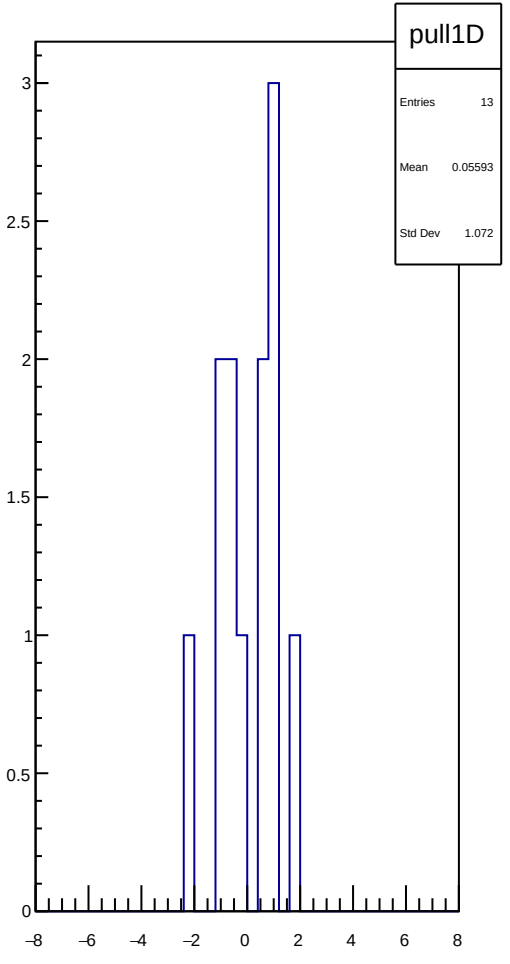
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.07771
Std Dev 1.055
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam8_diff_bpm4eX_slope vs run
χ2 / ndf 13.83 / 11
p0 171.1 ± 1.013
200
180
160
140
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.05593
Std Dev 1.072
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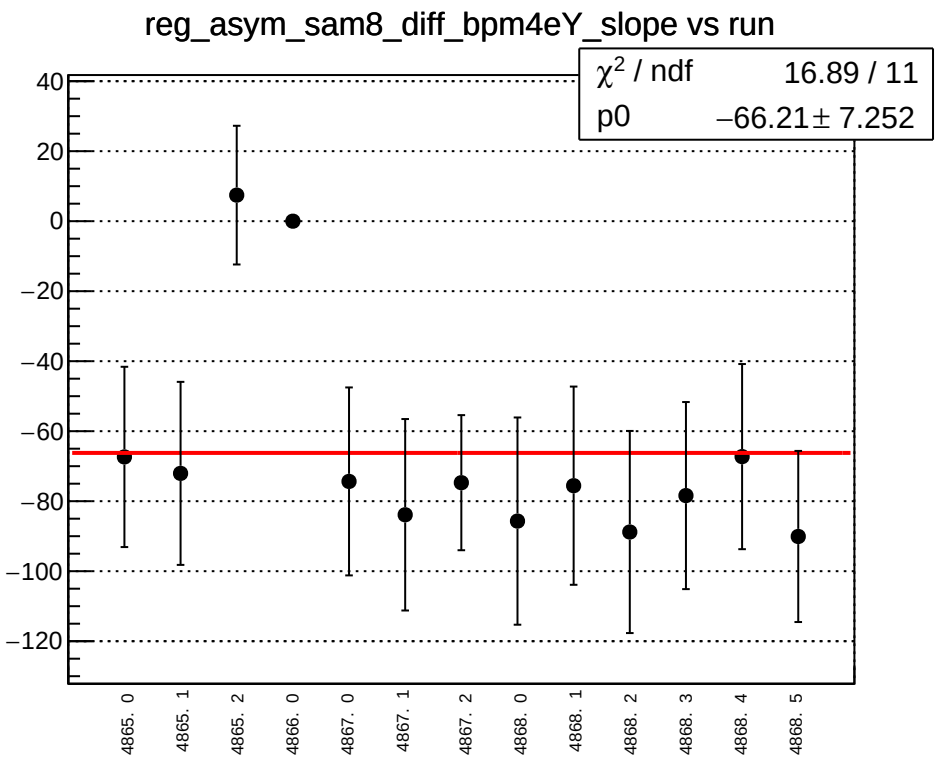
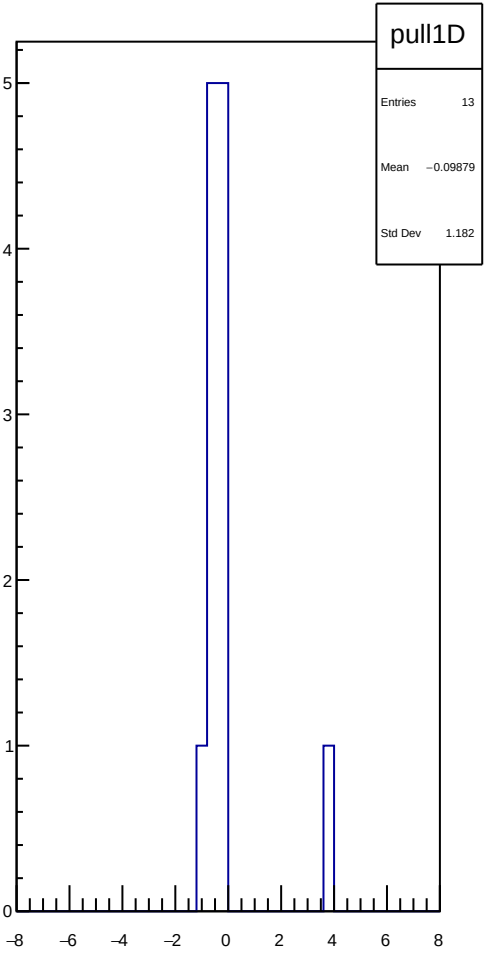
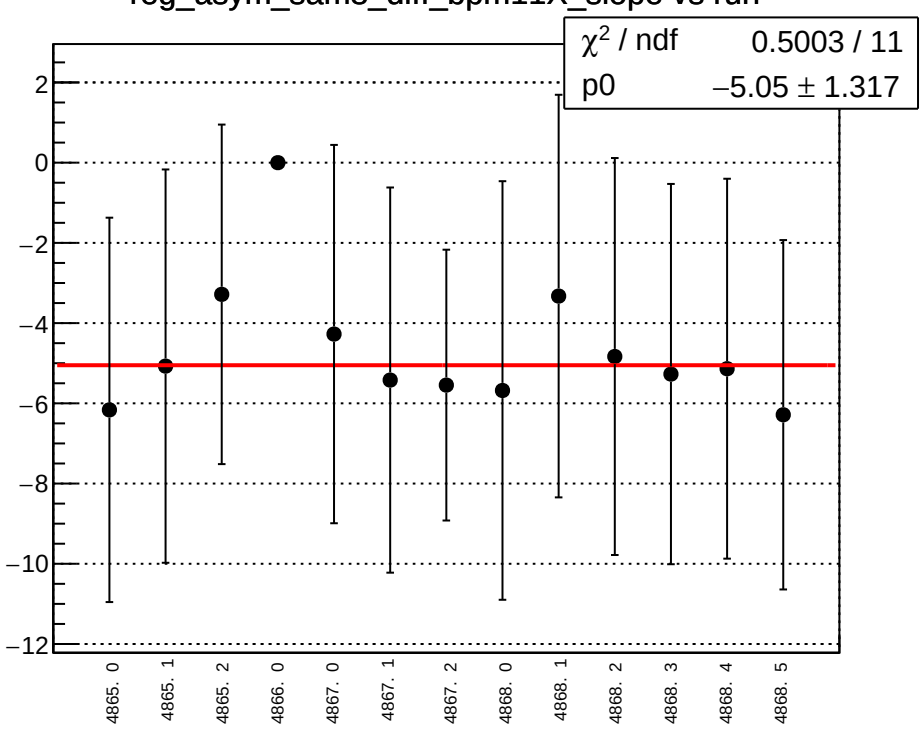
2
1.5
1
0.5
0
–8
–6
–4
–2
0
2
4
6
8


reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 16.89 / 11
p0 −66.21± 7.252
40
20
0
−20
−40
−60
−80
−100
−120
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.09879
Std Dev 1.182
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam8_diff_bpm11X_slope vs run
χ² / ndf 0.5003 / 11
p0 −5.05 ± 1.317
2
0
−2
−4
−6
−8
−10
−12
4865. 0
4865. 1
4865. 2
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4867. 1
4867. 2
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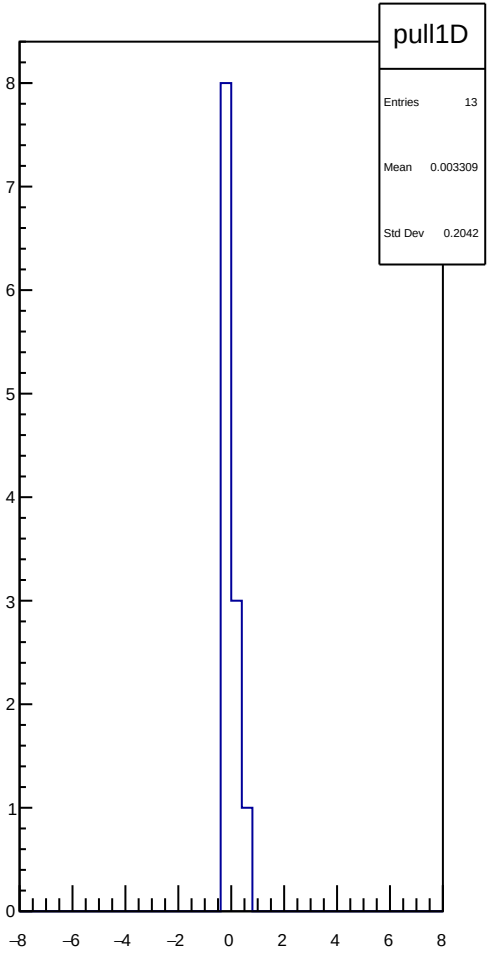
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.003309
Std Dev 0.2042
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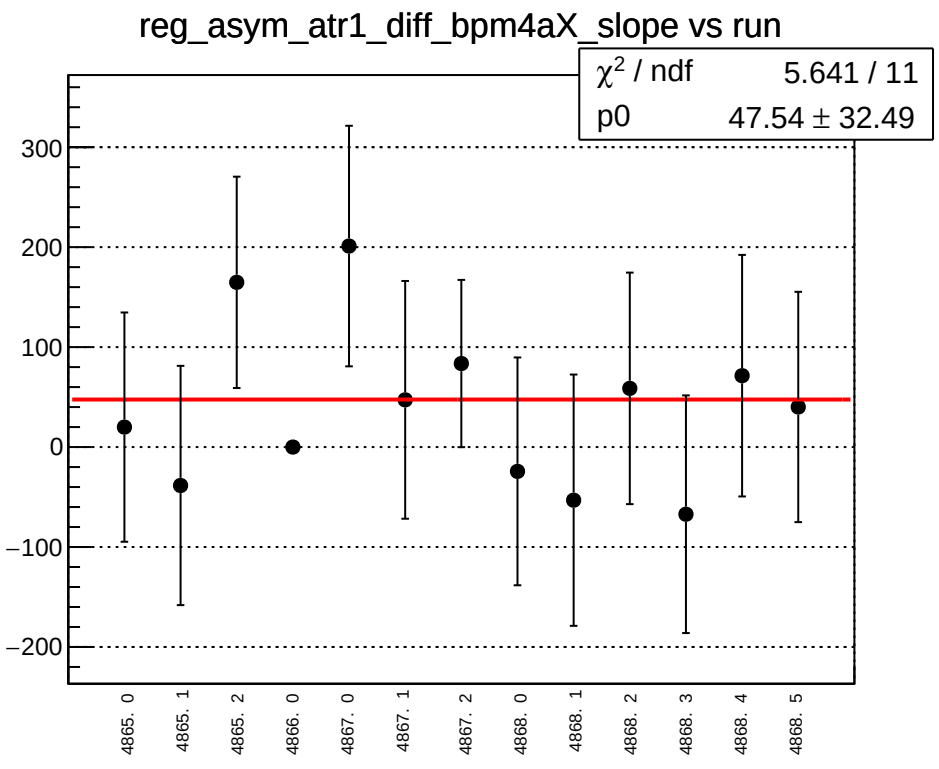
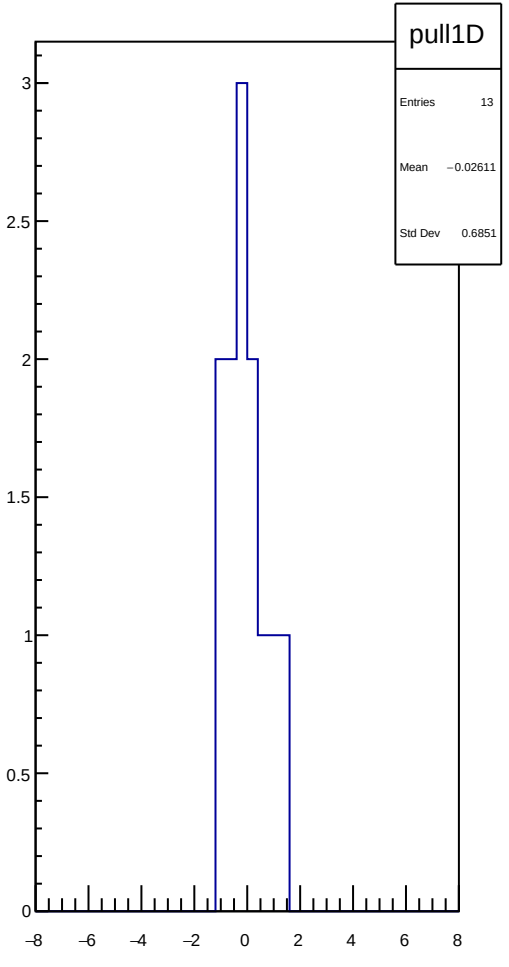
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 5.641 / 11
p0 47.54 ± 32.49
300
200
100
0
−100
−200
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.02611
Std Dev 0.6851
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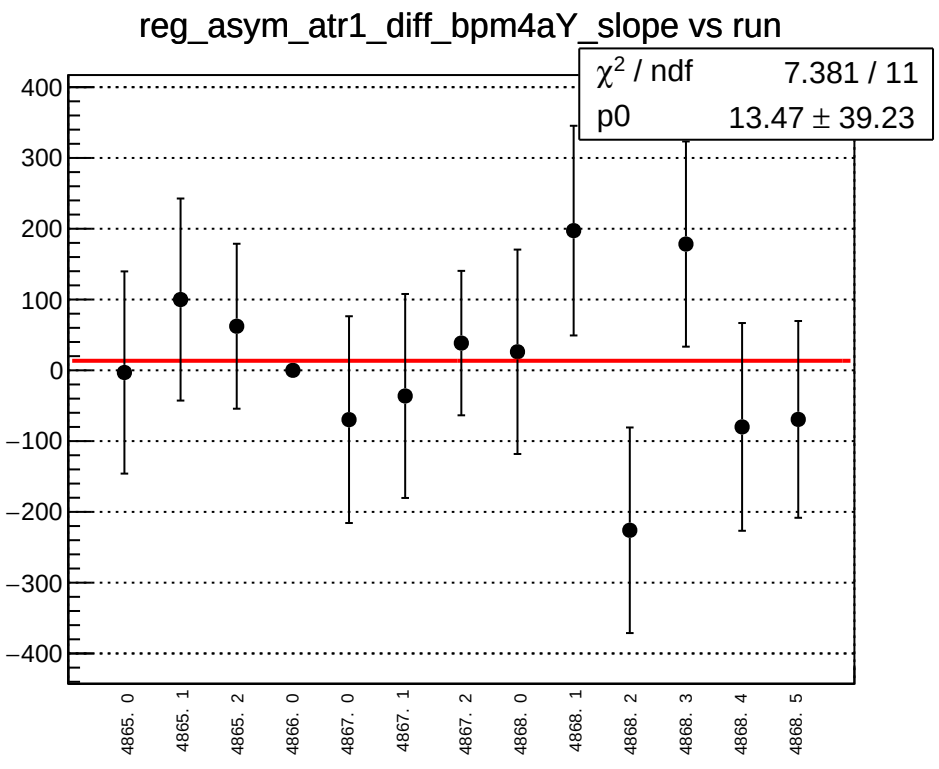
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 7.381 / 11
p0 13.47 ± 39.23
400
300
200
100
0
−100
−200
−300
−400
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
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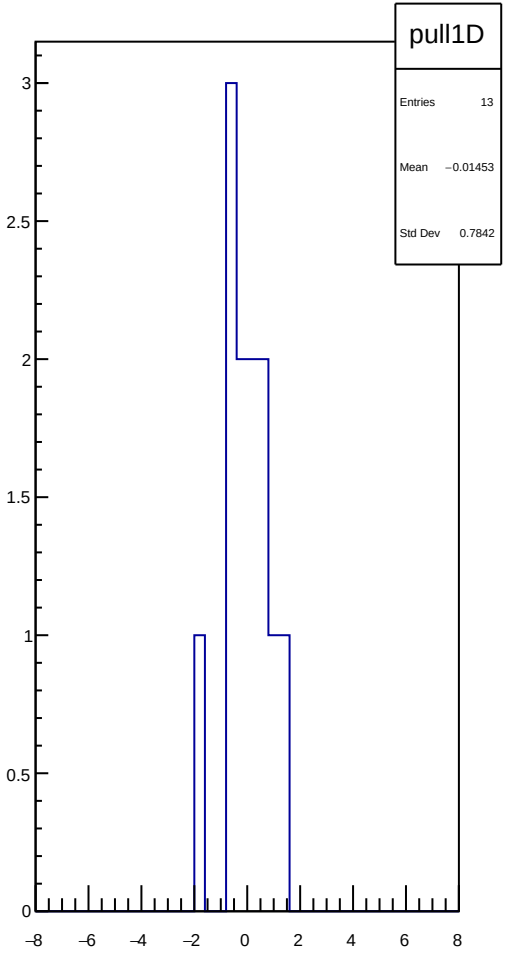
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.01453
Std Dev 0.7842
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2.5
2
1.5
1
0.5
0
−8
−6
−4
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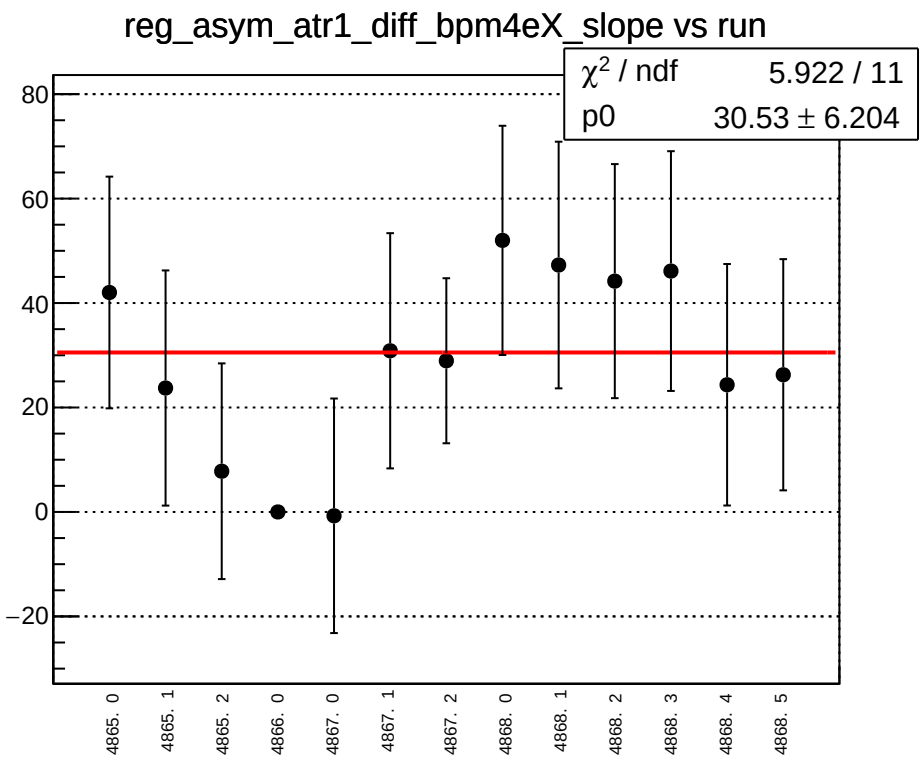
0
2
4
6
8


reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 5.922 / 11
p0 30.53 ± 6.204
80
60
40
20
0
−20
4865. 0
4865. 1
4865. 2
4866. 0
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4867. 1
4867. 2
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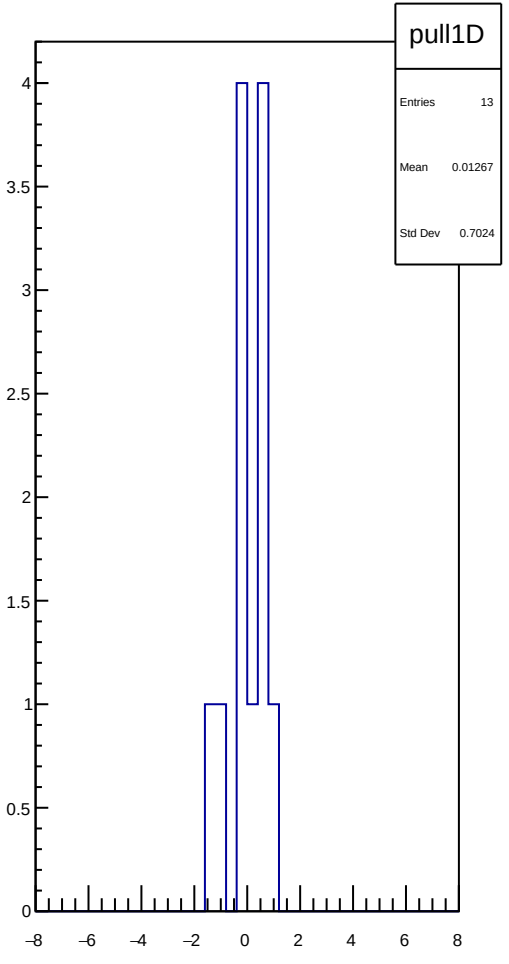
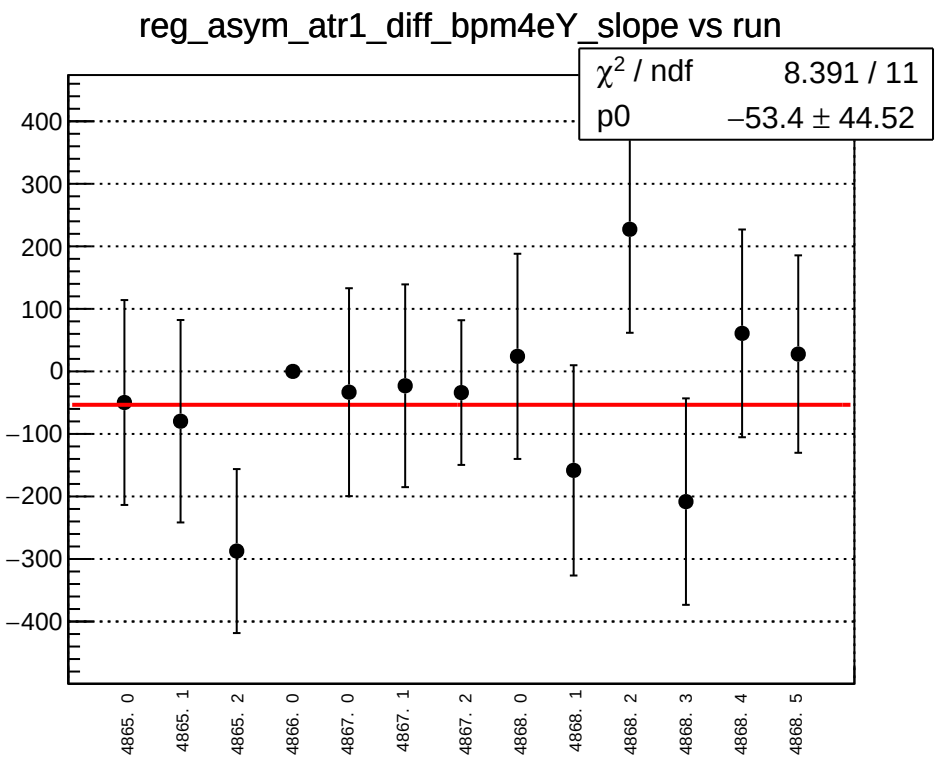
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.01267
Std Dev 0.7024
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 8.391 / 11
p0 −53.4 ± 44.52
400
300
200
100
0
−100
−200
−300
−400
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
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4868. 2
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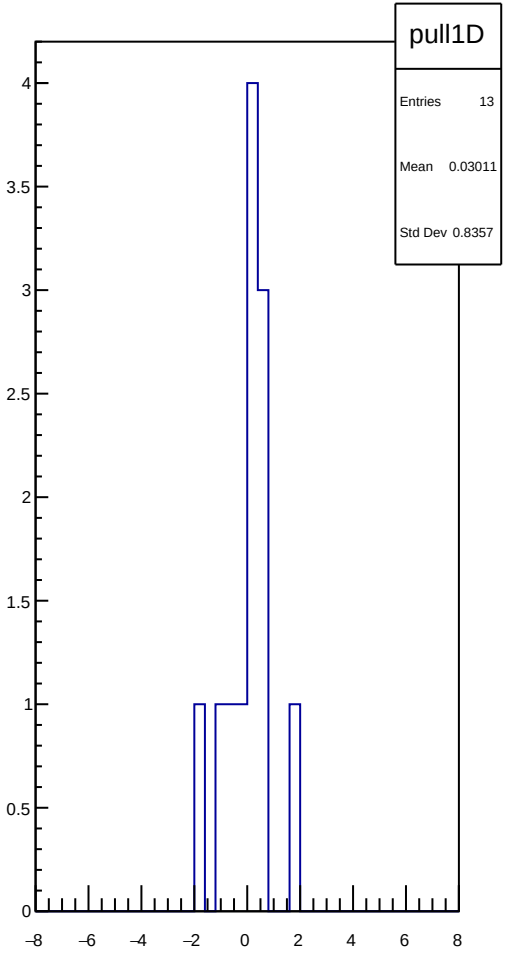
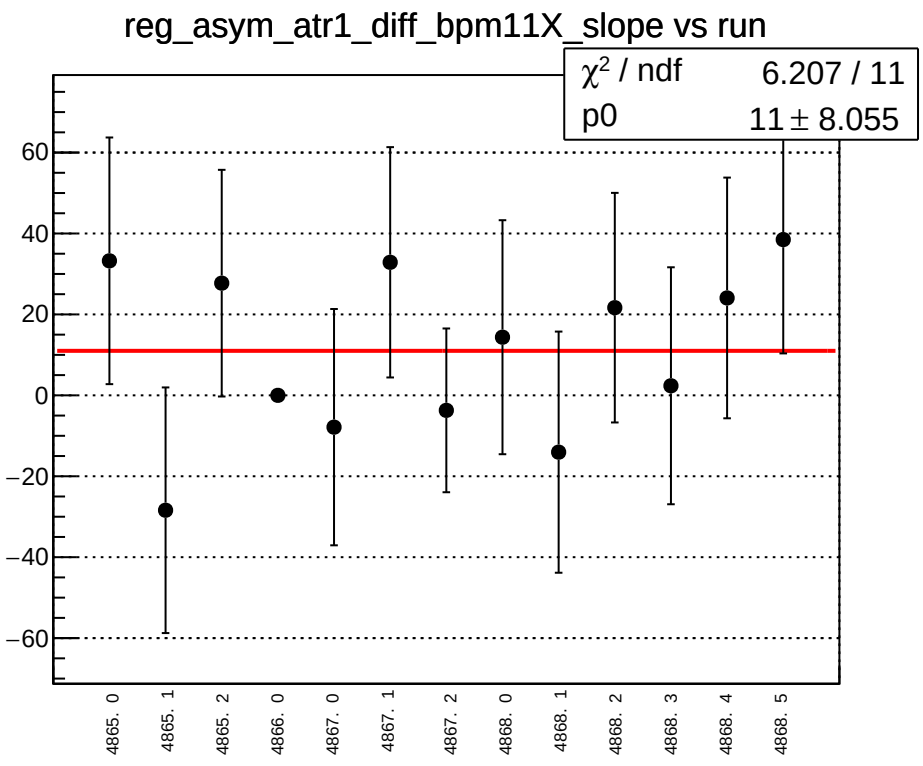
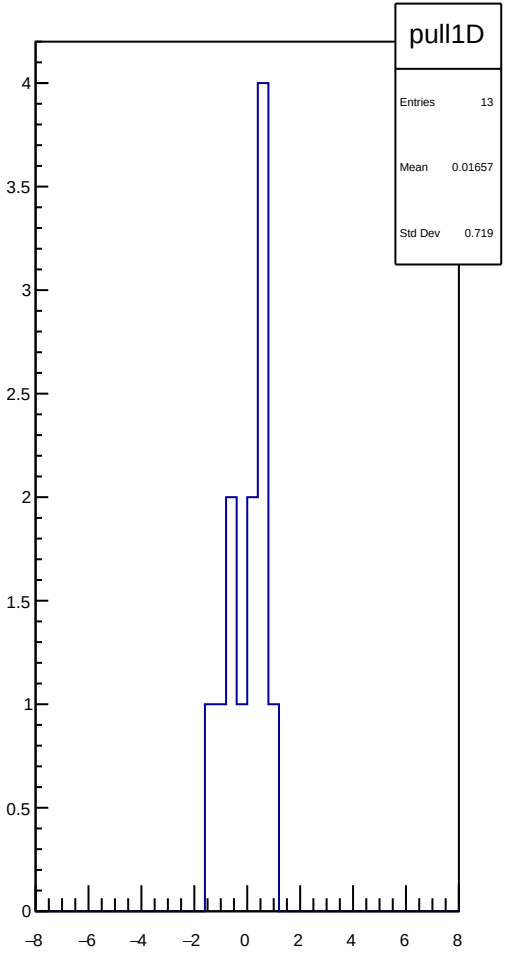
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.03011
Std Dev 0.8357
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1_diff_bpm11X_slope vs run
χ² / ndf 6.207 / 11
p0 11 ± 8.055
60
40
20
0
−20
−40
−60
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.01657
Std Dev 0.719
4
3.5
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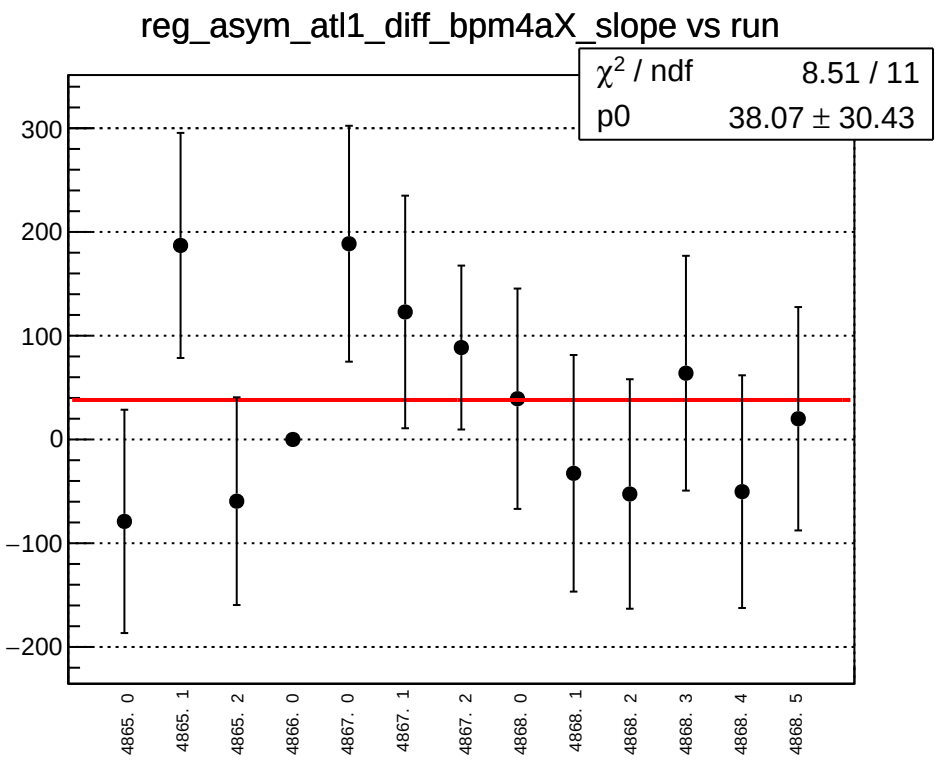
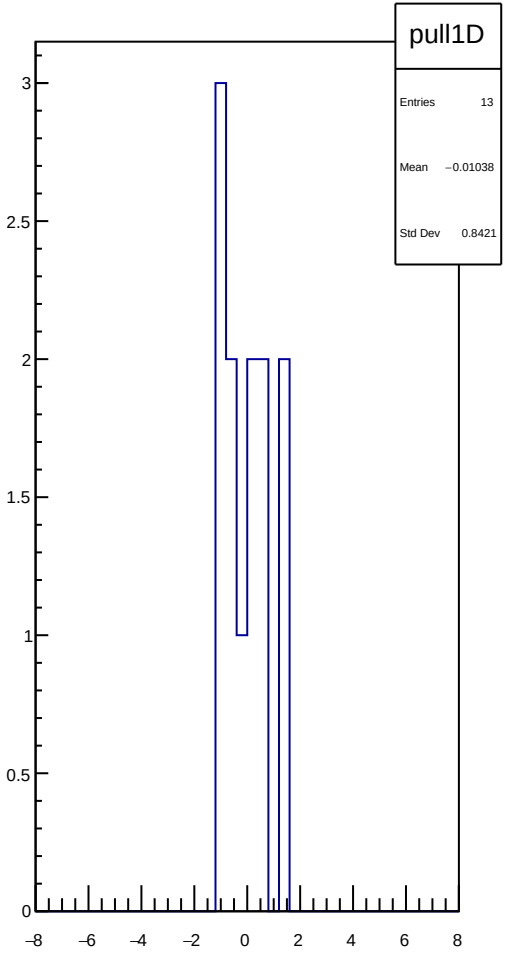
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1_diff_bpm4aX_slope vs run
χ2 / ndf 8.51 / 11
p0 38.07 ± 30.43
300
200
100
0
−100
−200
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.01038
Std Dev 0.8421
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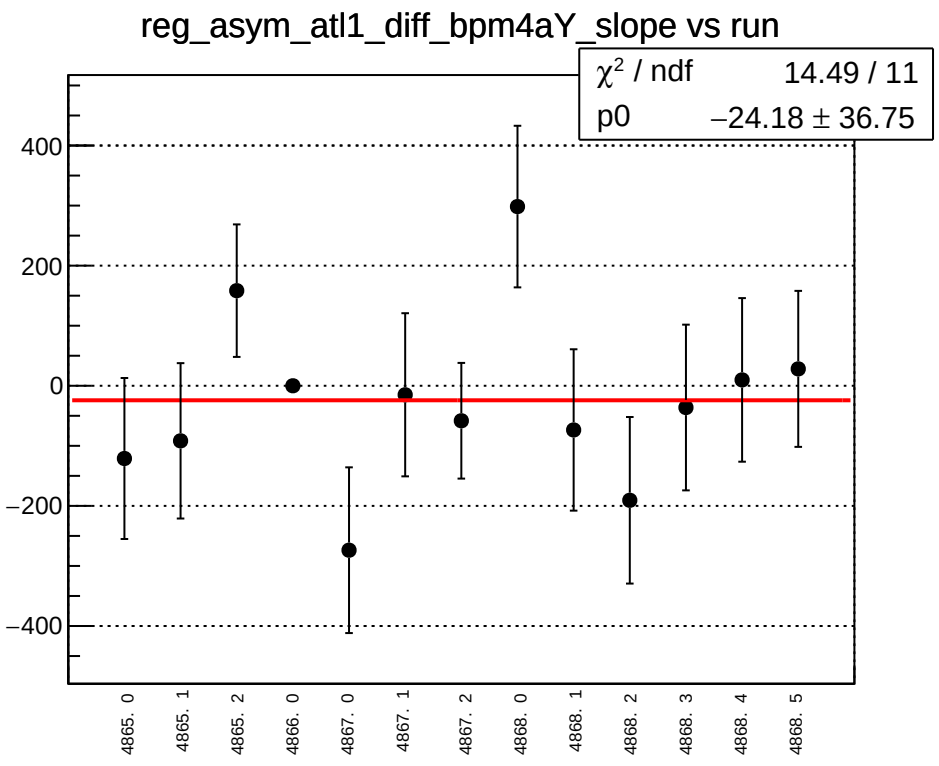
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 14.49 / 11
p0 −24.18 ± 36.75
400
200
0
−200
−400
4865. 0
4865. 1
4865. 2
4866. 0
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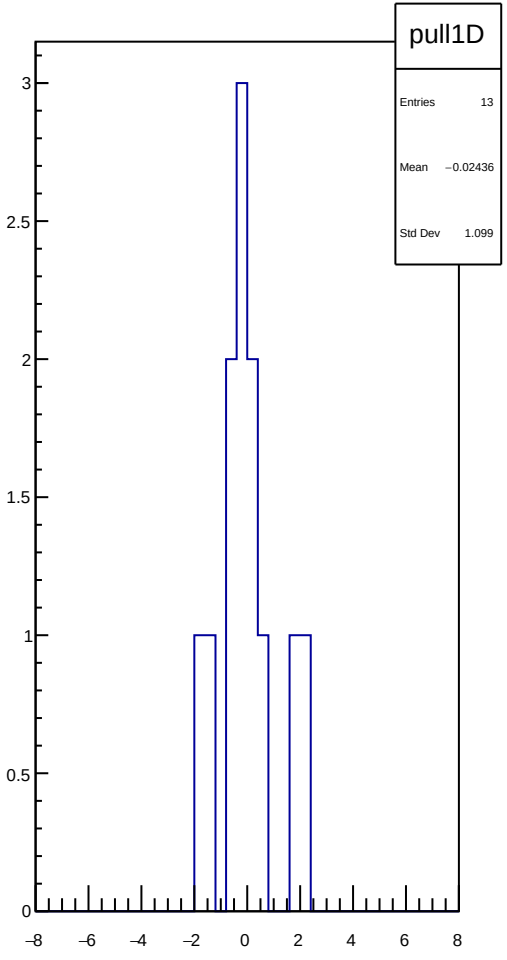
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.02436
Std Dev 1.099
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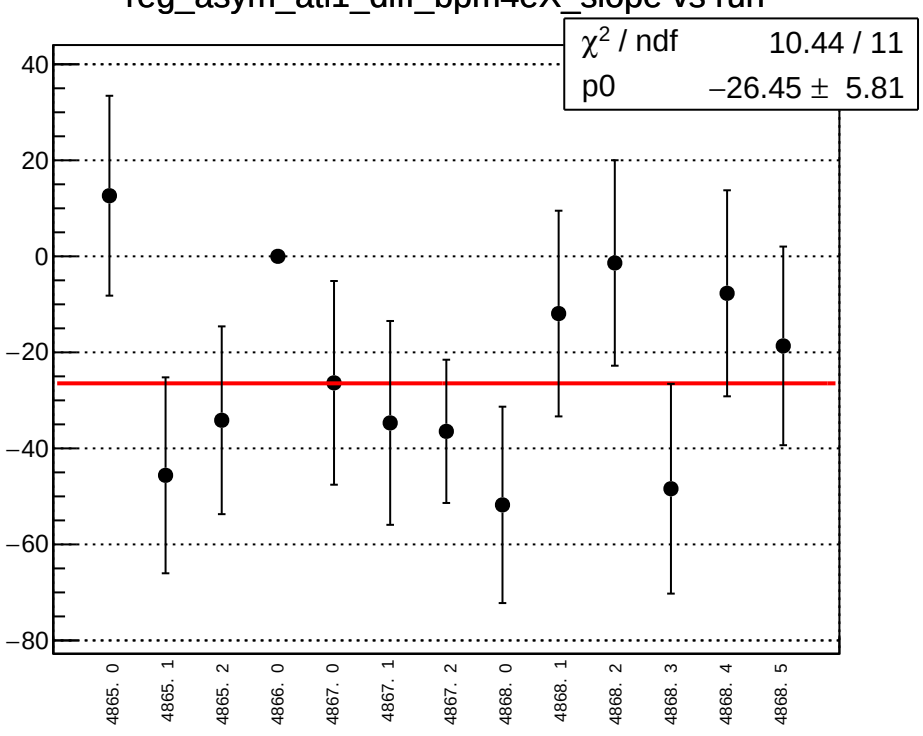
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 10.44 / 11
p0 −26.45 ± 5.81
40
20
0
−20
−40
−60
−80
4865. 0
4865. 1
4865. 2
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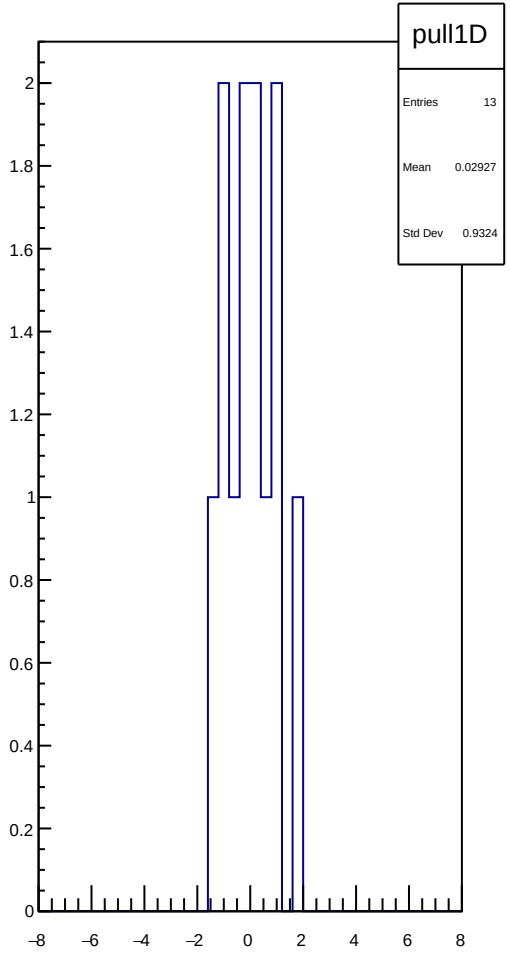
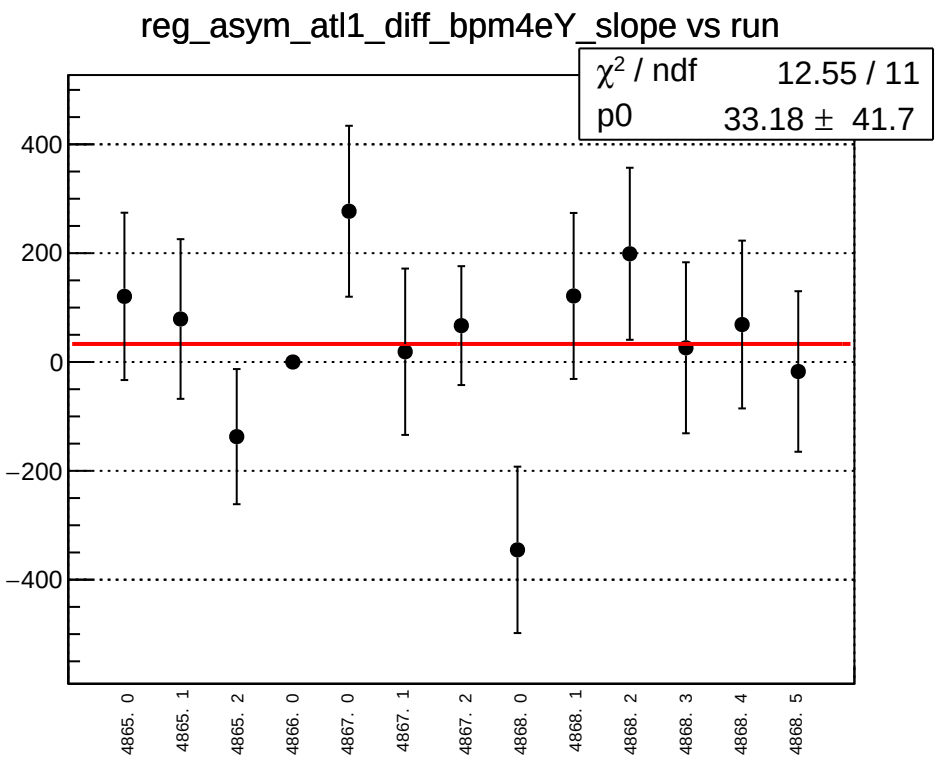
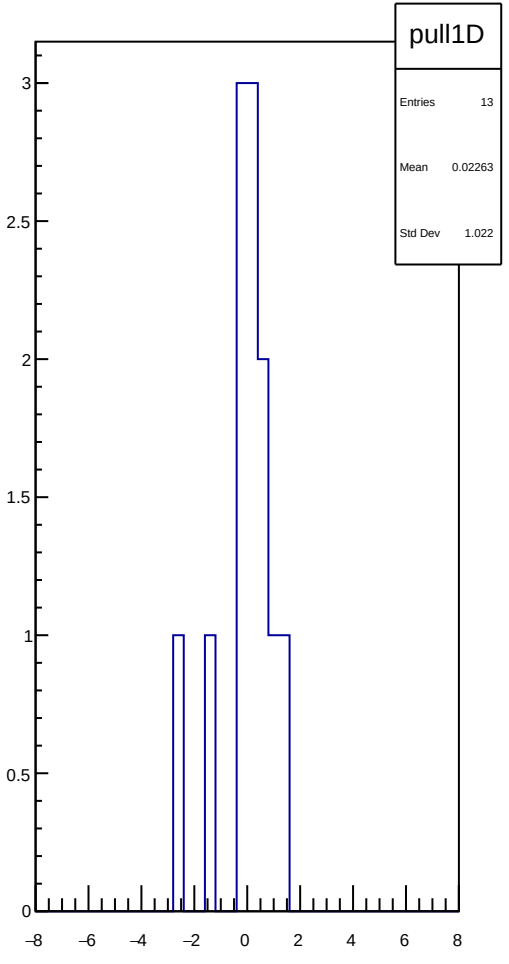
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.02927
Std Dev 0.9324
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 12.55 / 11
p0 33.18 ± 41.7
400
200
0
−200
−400
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.02263
Std Dev 1.022
3
2.5
2
1.5
1
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−4
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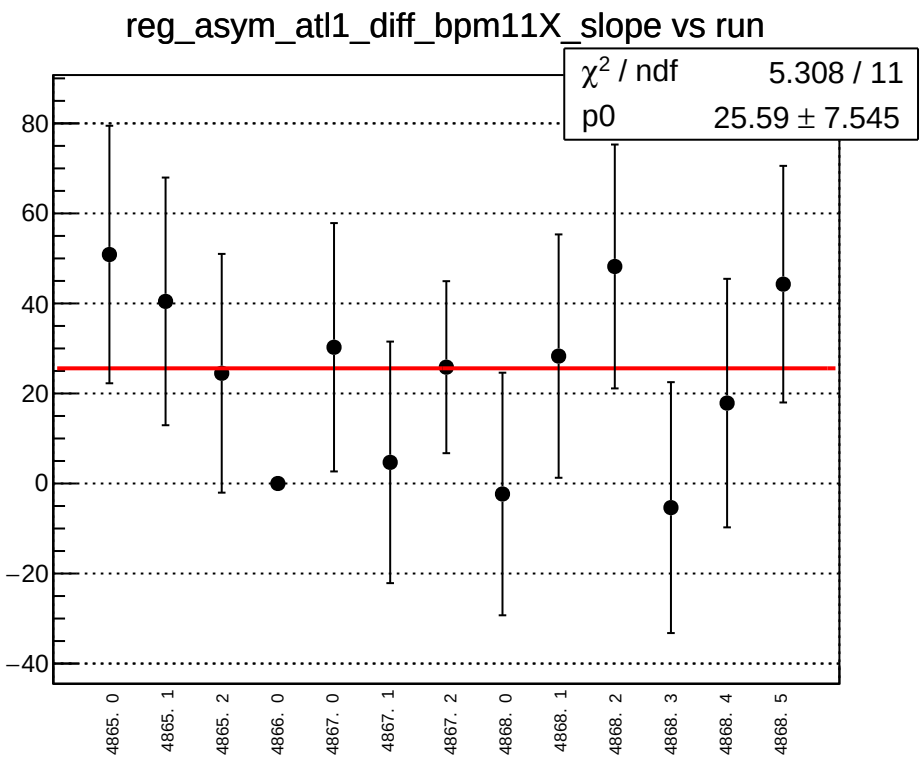
2
4
6
8


reg_asym_atl1_diff_bpm11X_slope vs run
χ² / ndf 5.308 / 11
p0 25.59 ± 7.545
80
60
40
20
0
−20
−40
4865. 0
4865. 1
4865. 2
4866. 0
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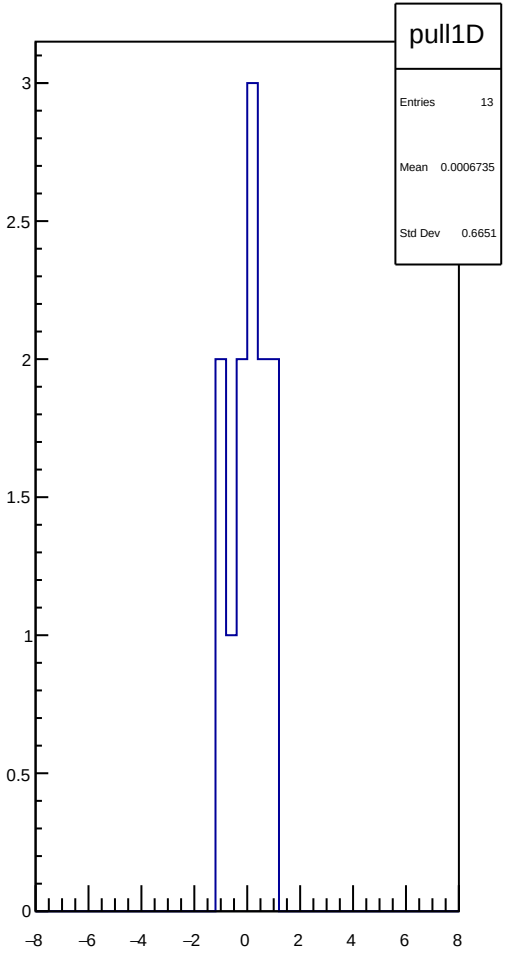
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.0006735
Std Dev 0.6651
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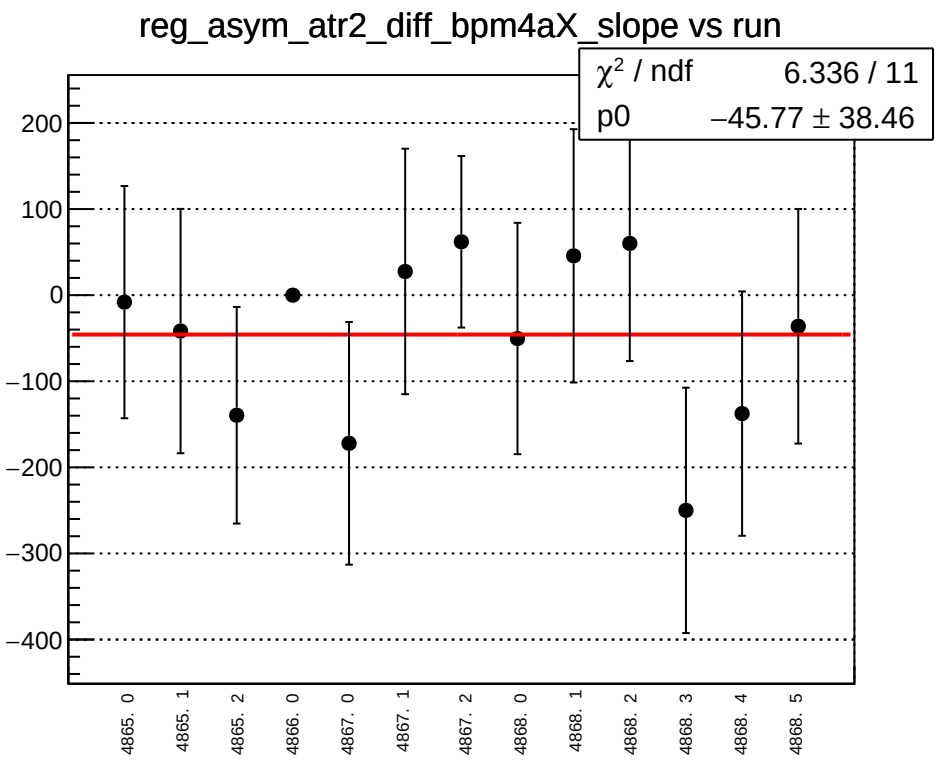
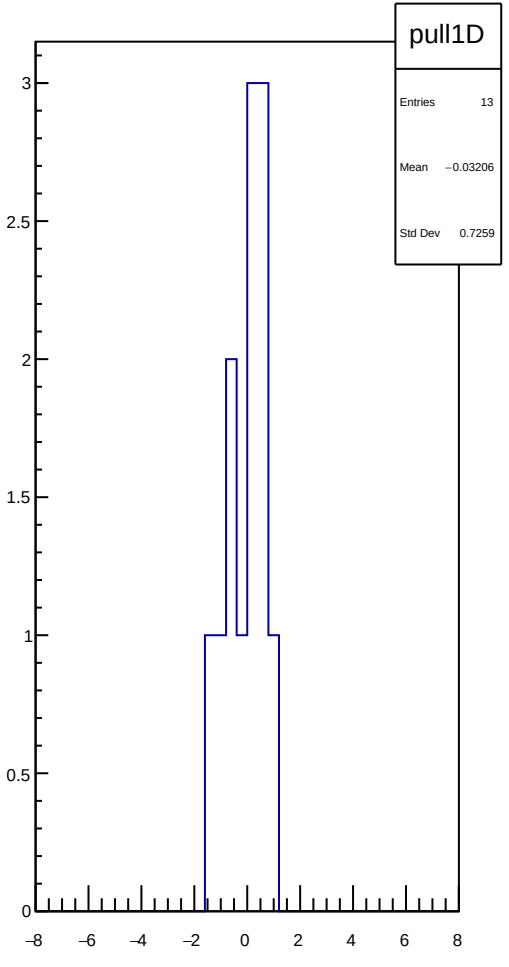
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 6.336 / 11
p0 −45.77 ± 38.46
200
100
0
−100
−200
−300
−400
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.03206
Std Dev 0.7259
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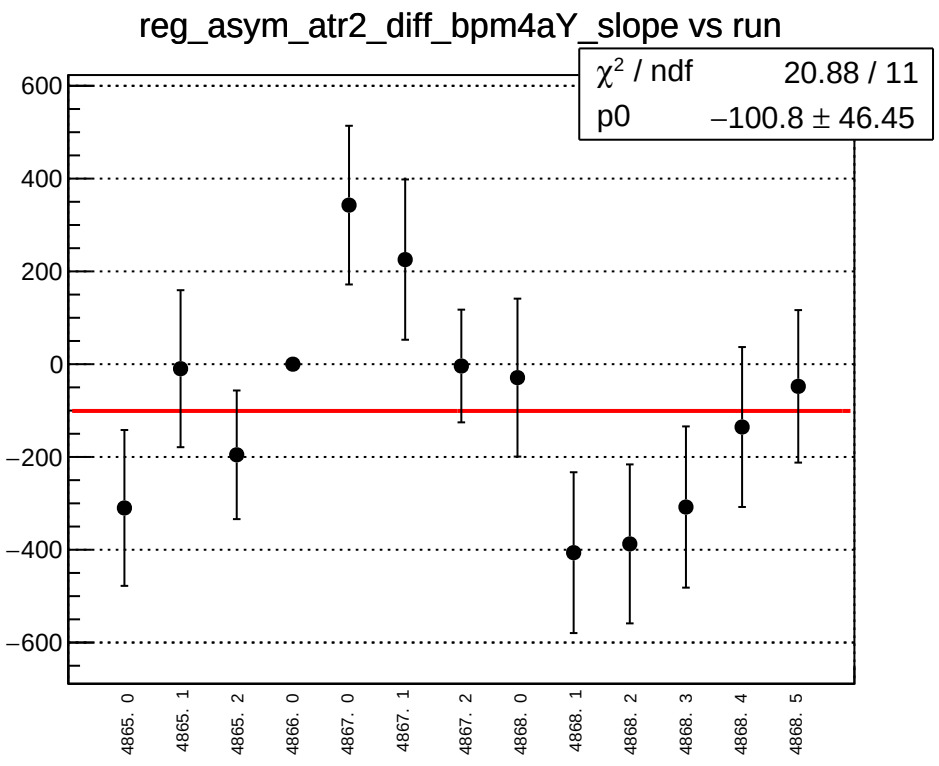
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 20.88 / 11
p0 −100.8 ± 46.45
600
400
200
0
−200
−400
−600
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
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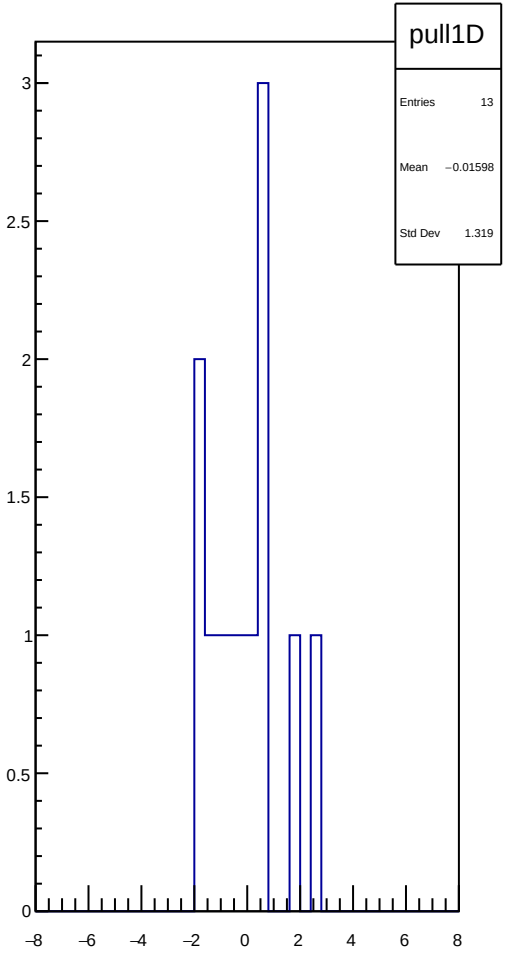
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.01598
Std Dev 1.319
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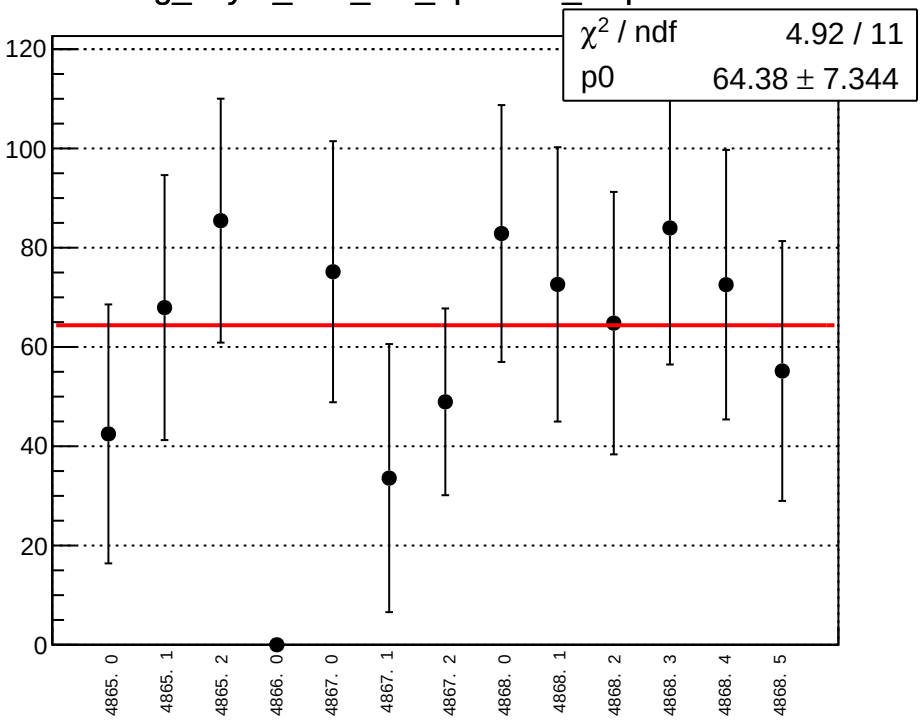
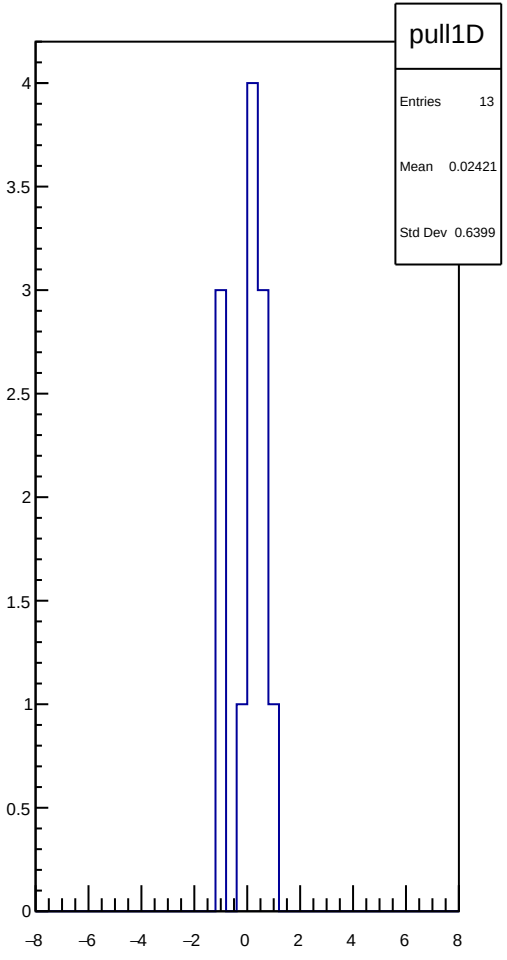
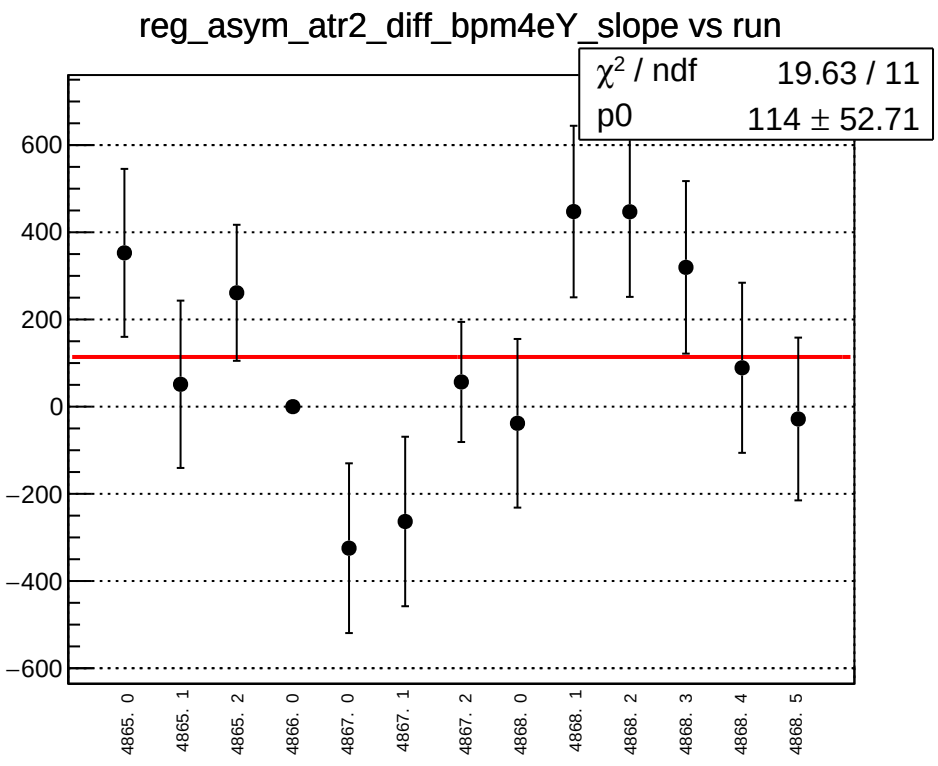
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 4.92 / 11
p0 64.38 ± 7.344
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.02421
Std Dev 0.6399
4
3.5
3
2.5
2
1.5
1
0.5
0
–8
–6
–4
–2
0
2
4
6
8


reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 19.63 / 11
p0 114 ± 52.71
600
400
200
0
−200
−400
−600
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
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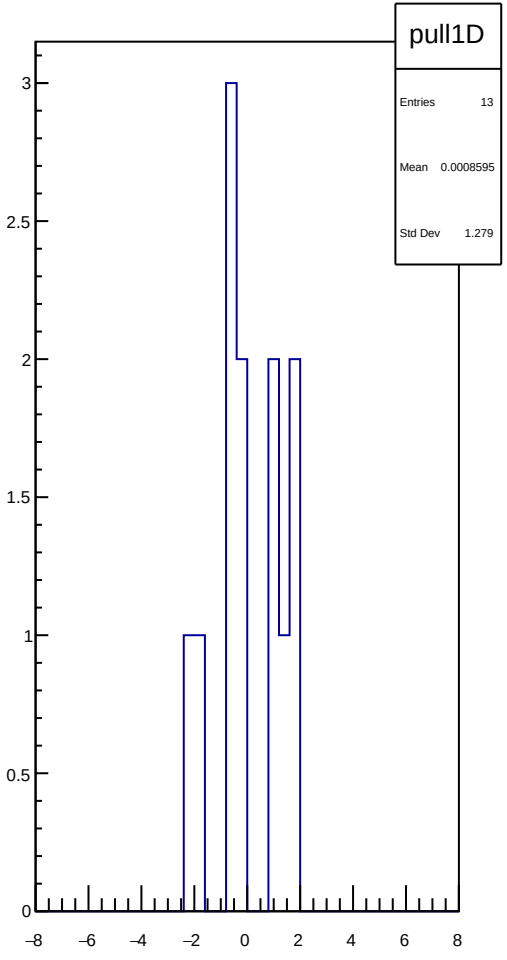
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.0008595
Std Dev 1.279
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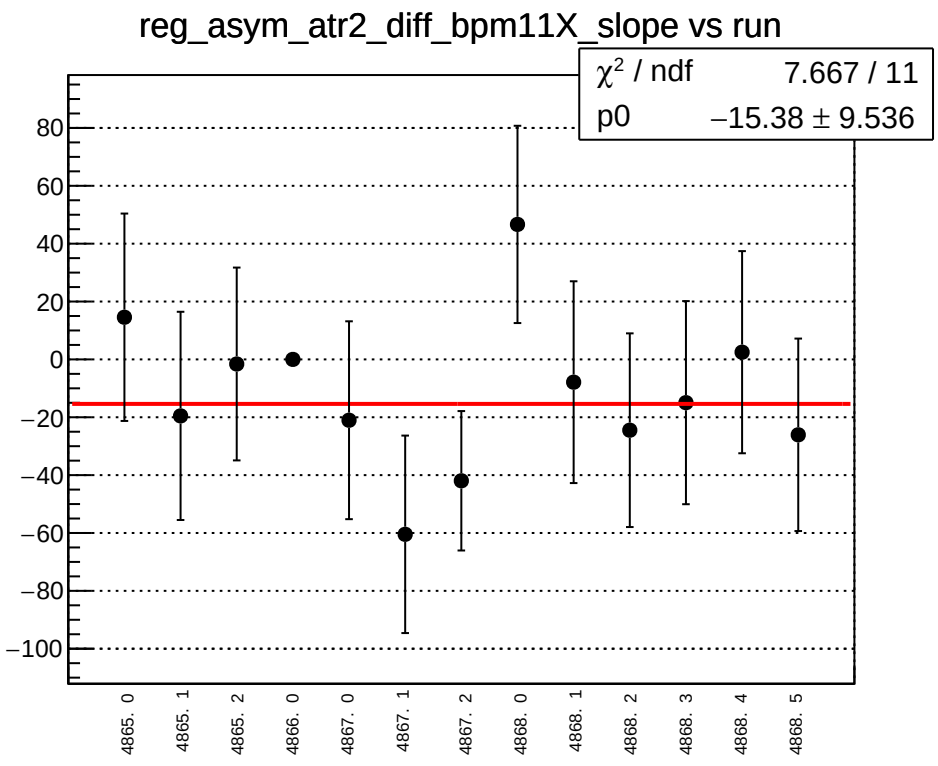
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr2_diff_bpm11X_slope vs run
χ² / ndf 7.667 / 11
p0 −15.38 ± 9.536
80
60
40
20
0
−20
−40
−60
−80
−100
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
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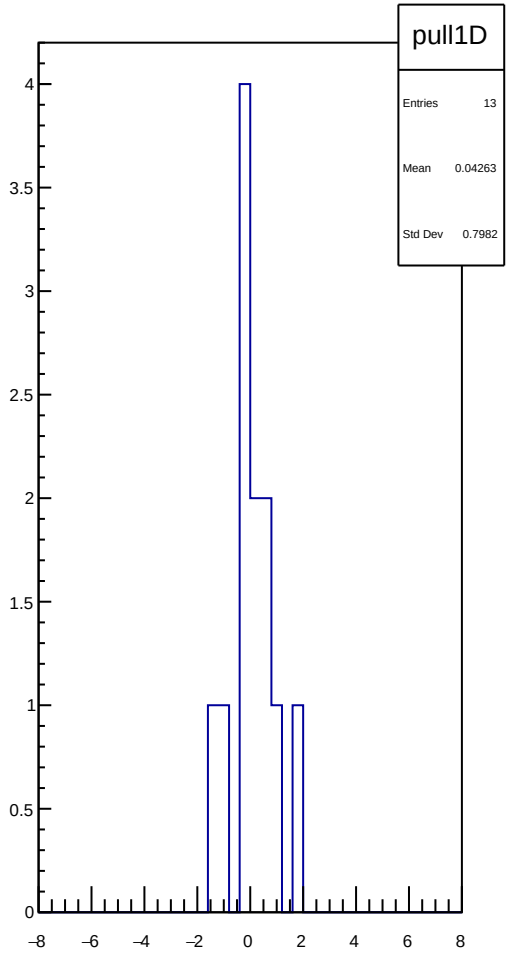
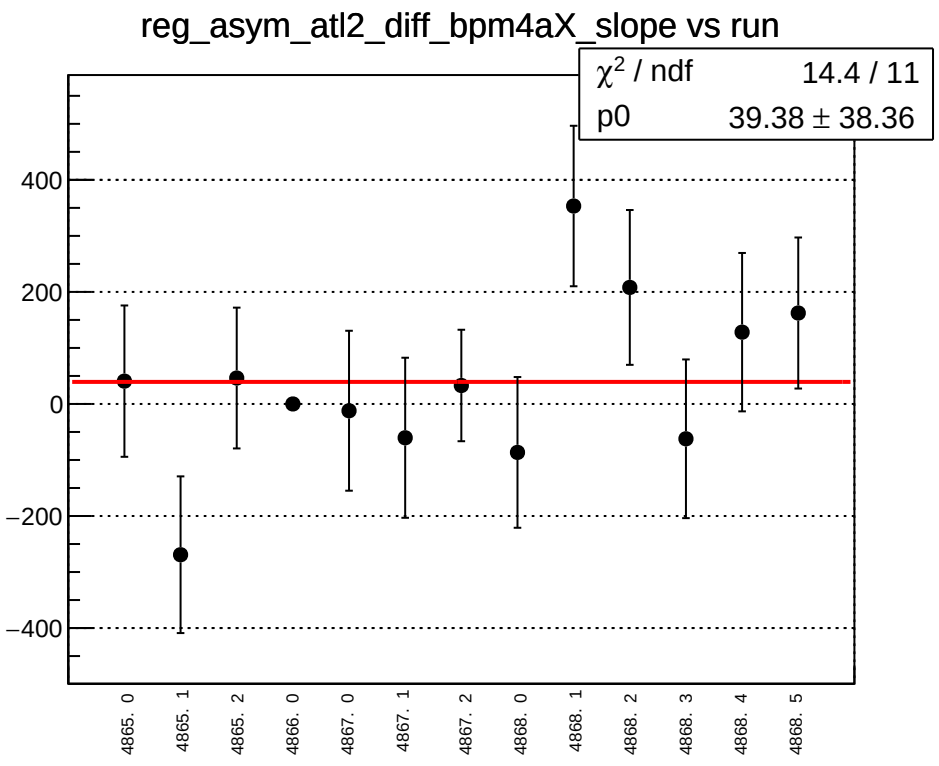
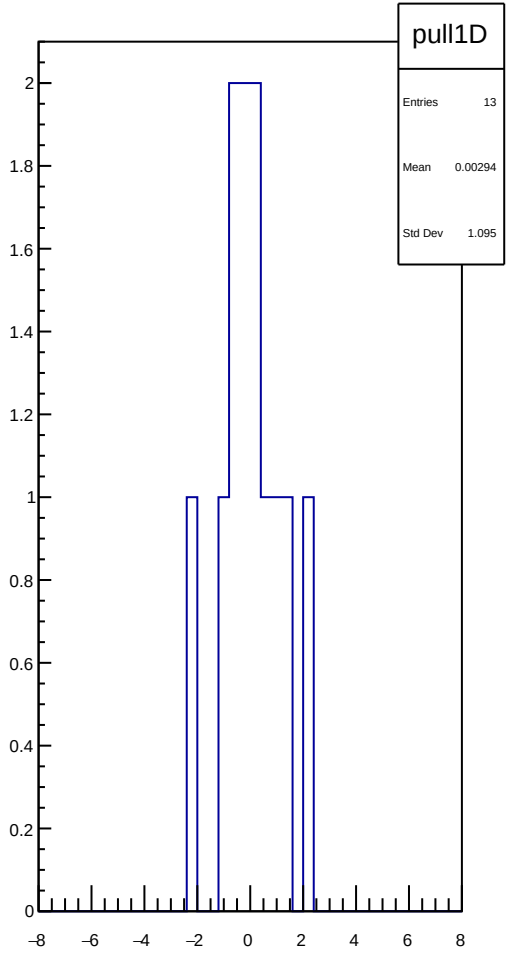
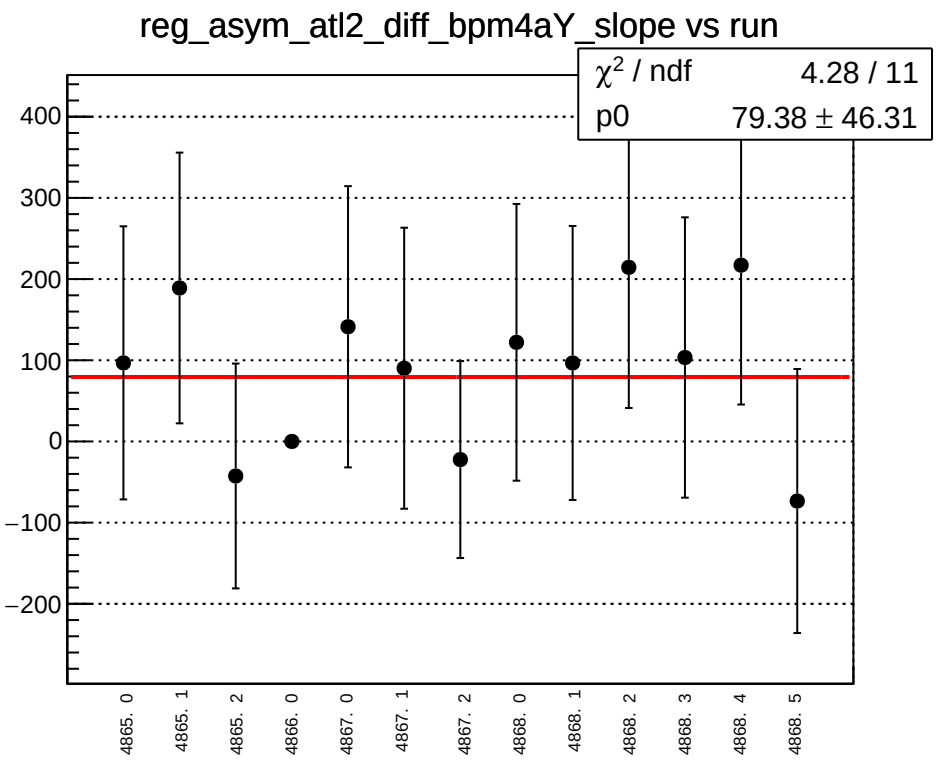
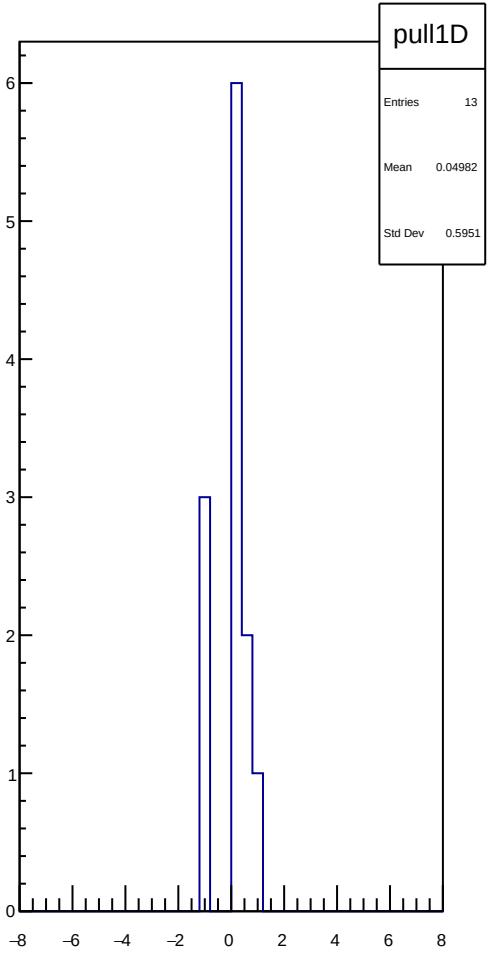
4868. 2
4868. 3
4868. 4
4868. 5

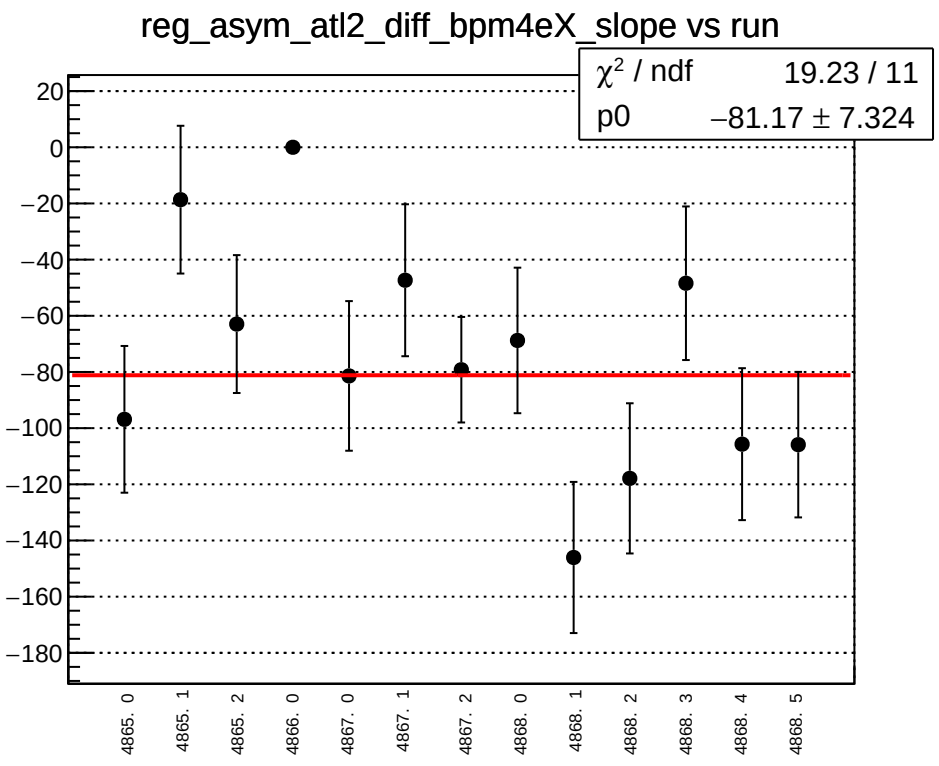

pull1D
Entries 13
Mean 0.04263
Std Dev 0.7982
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

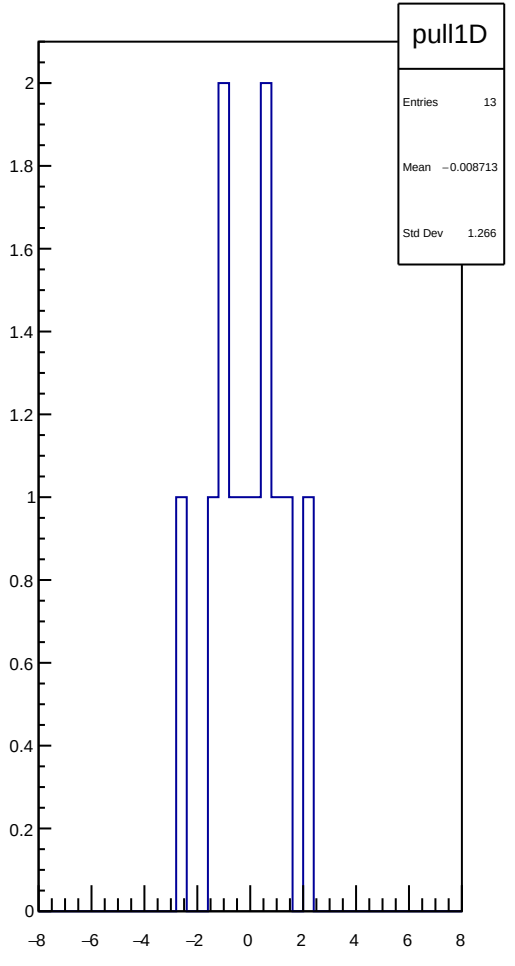

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 14.4 / 11
p0 39.38 ± 38.36
400
200
0
−200
−400
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.00294
Std Dev 1.095
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 4.28 / 11
p0 79.38 ± 46.31
400
300
200
100
0
−100
−200
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.04982
Std Dev 0.5951
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 19.23 / 11
p0 −81.17 ± 7.324
20
0
−20
−40
−60
−80
−100
−120
−140
−160
−180
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.008713
Std Dev 1.266
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
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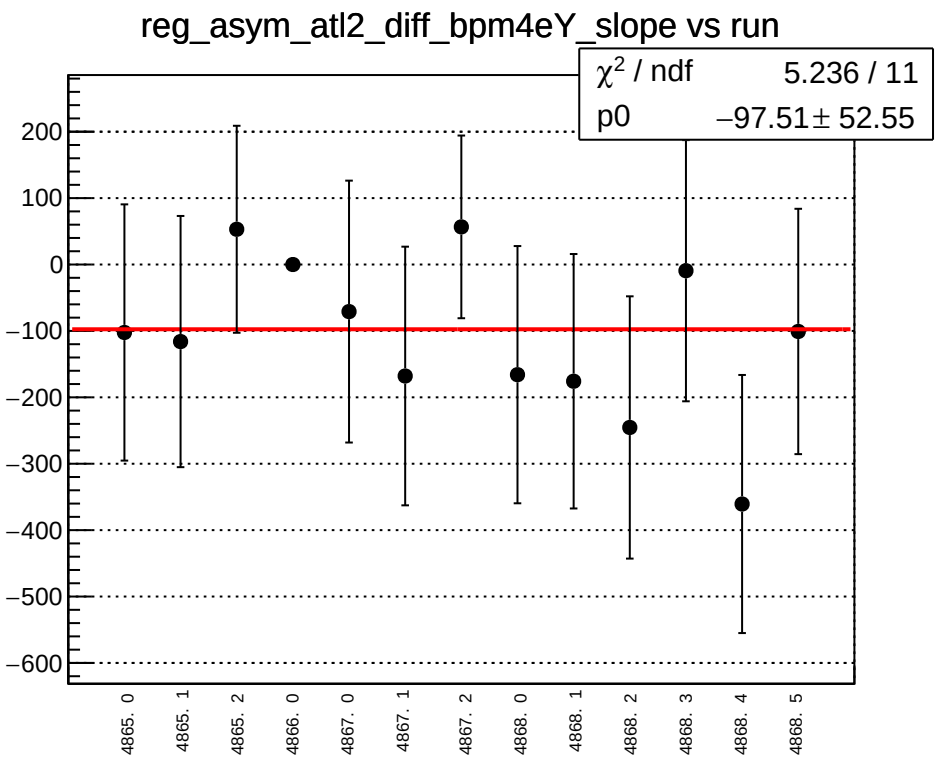
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 5.236 / 11
p0 −97.51 ± 52.55
200
100
0
−100
−200
−300
−400
−500
−600
4865. 0
4865. 1
4865. 2
4866. 0
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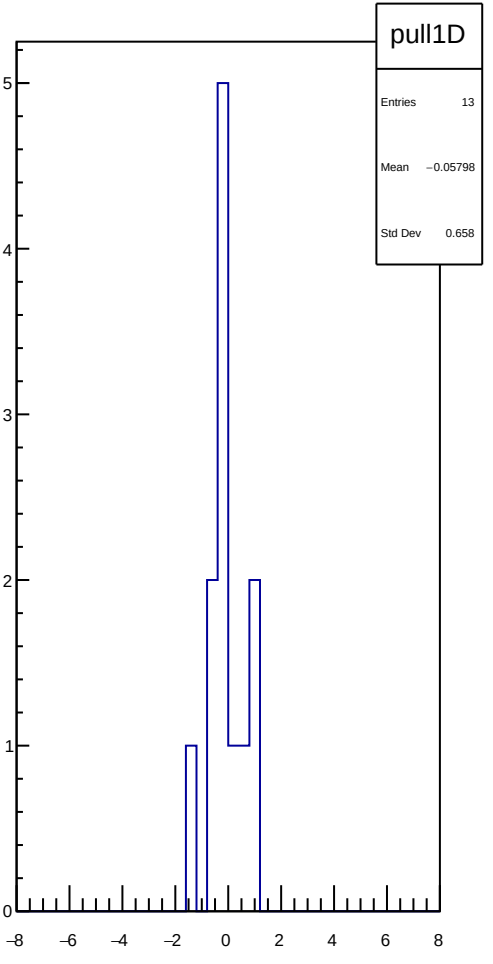
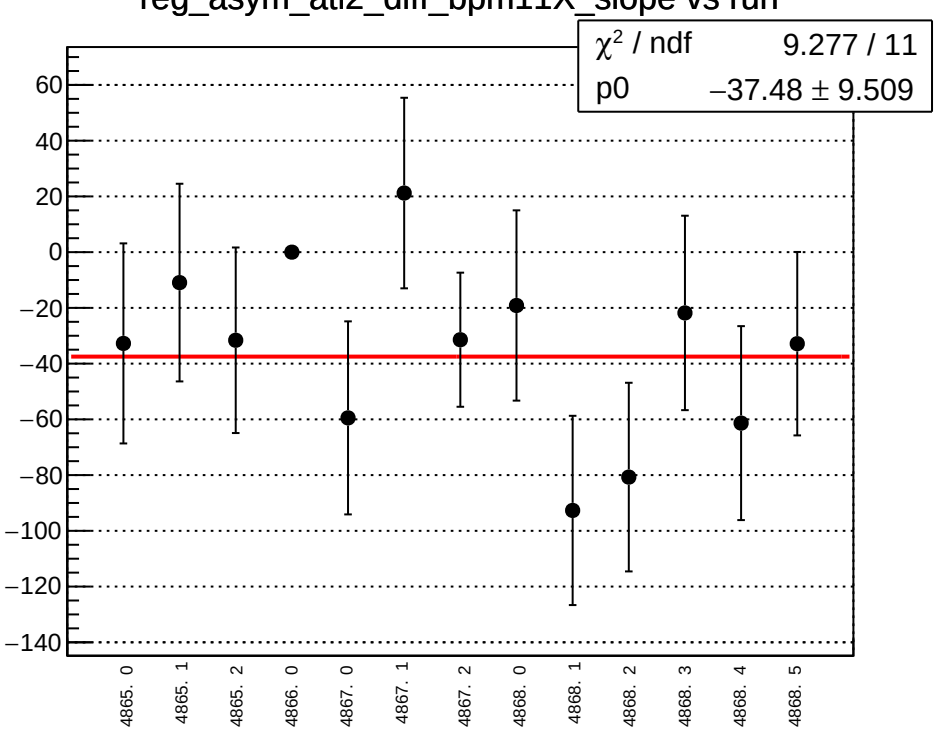
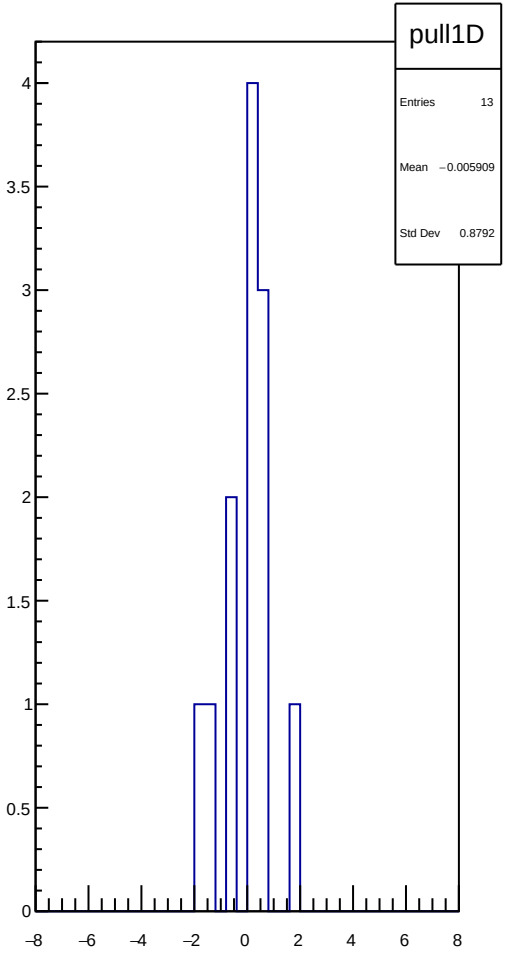
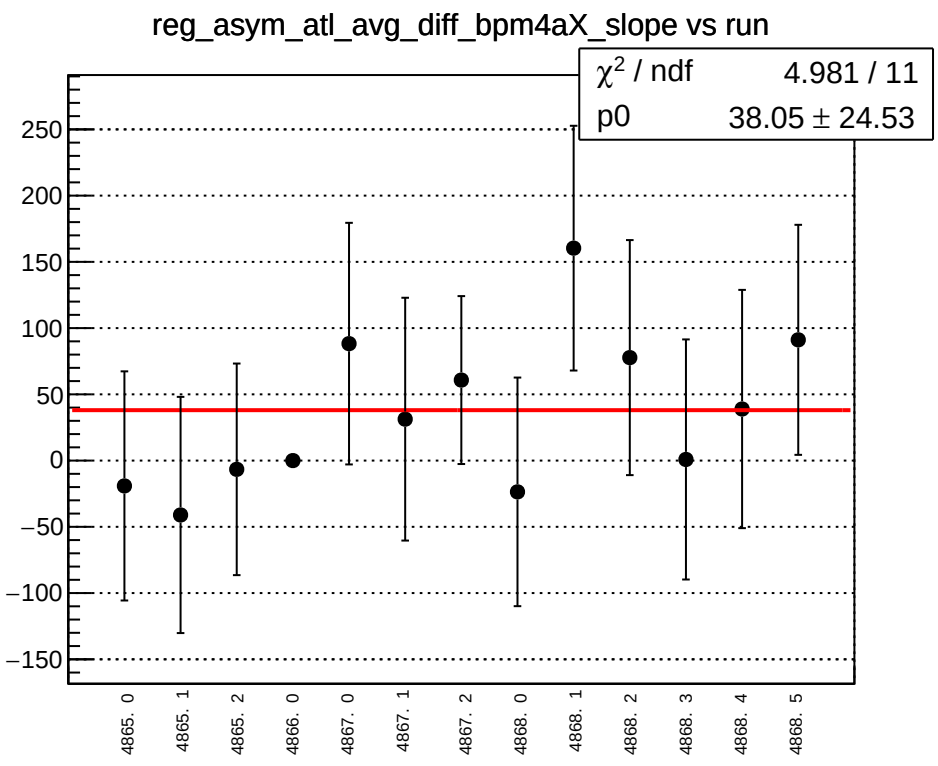
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.05798
Std Dev 0.658
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl2_diff_bpm11X_slope vs run
χ² / ndf 9.277 / 11
p0 −37.48 ± 9.509
60
40
20
0
−20
−40
−60
−80
−100
−120
−140
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.005909
Std Dev 0.8792
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 4.981 / 11
p0 38.05 ± 24.53
250
200
150
100
50
0
−50
−100
−150
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
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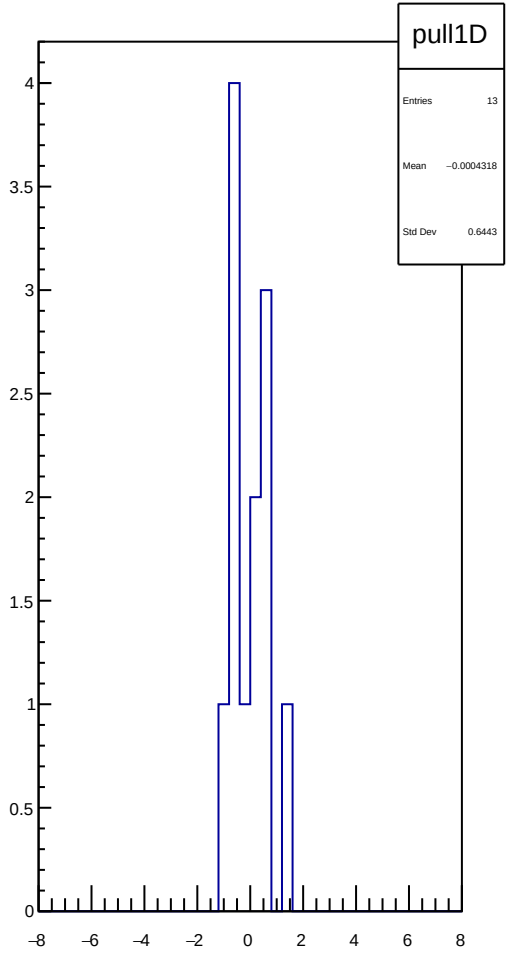
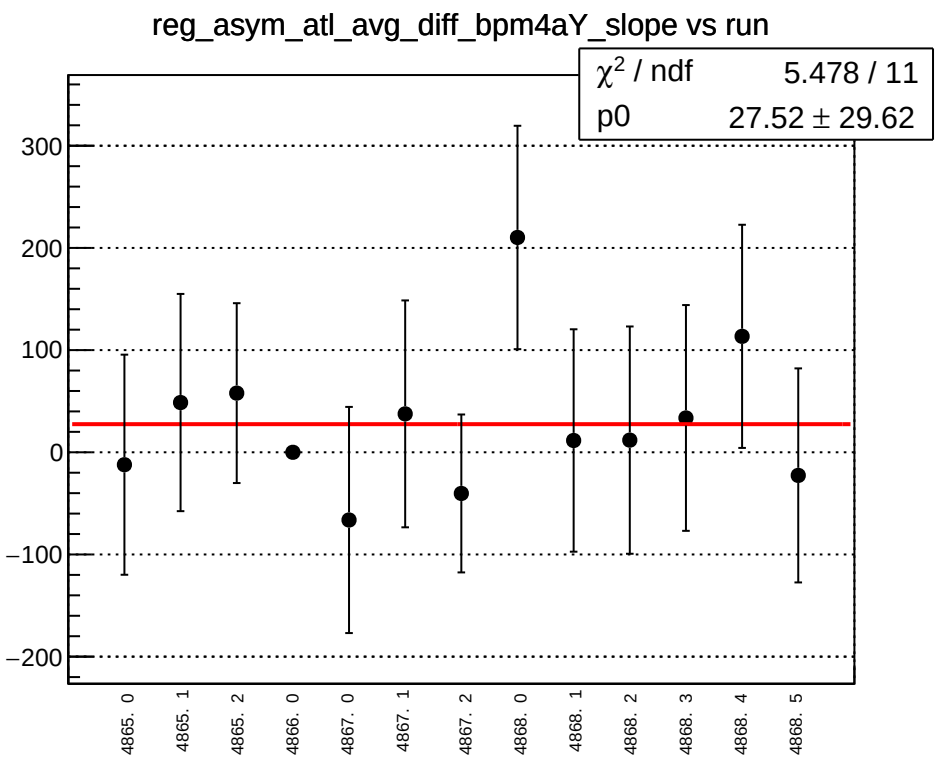
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.0004318
Std Dev 0.6443
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.478 / 11
p0 27.52 ± 29.62
300
200
100
0
−100
−200
4865. 0
4865. 1
4865. 2
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4867. 1
4867. 2
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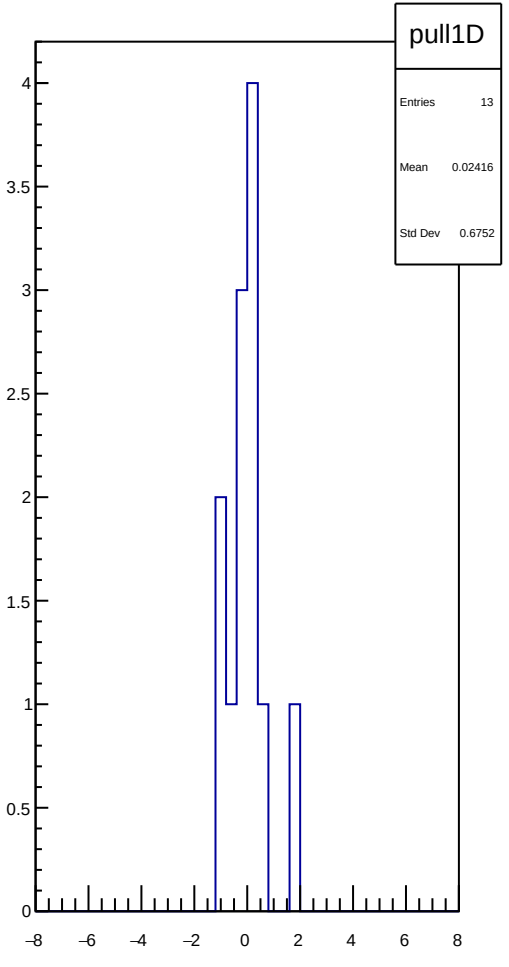
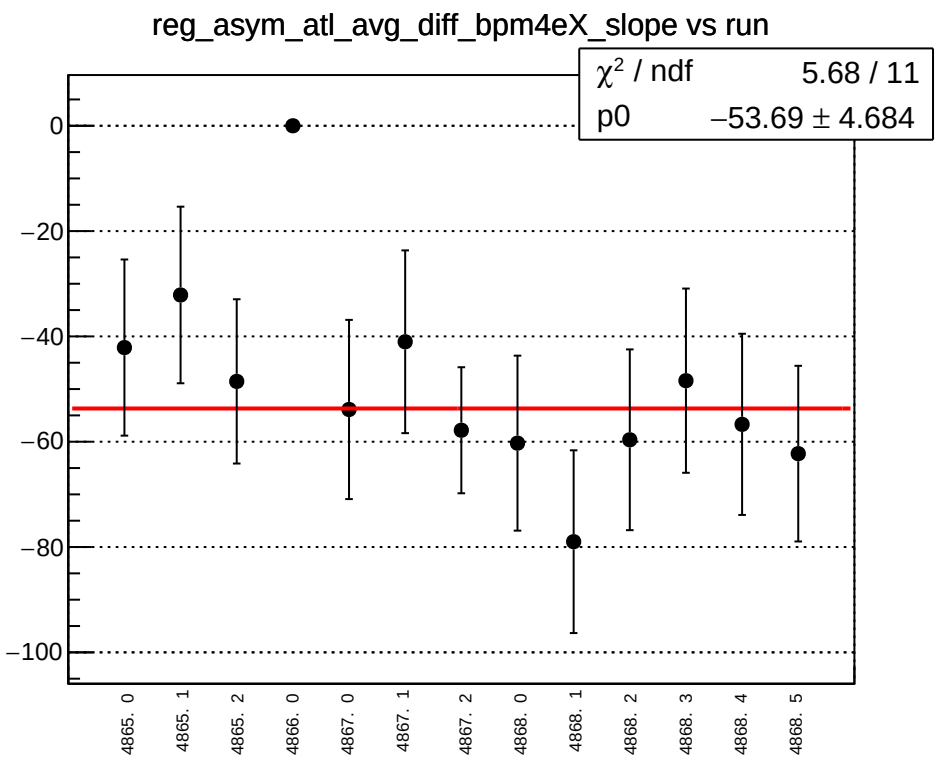
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.02416
Std Dev 0.6752
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.68 / 11
p0 −53.69 ± 4.684
0
−20
−40
−60
−80
−100
4865. 0
4865. 1
4865. 2
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4867. 2
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4868. 2
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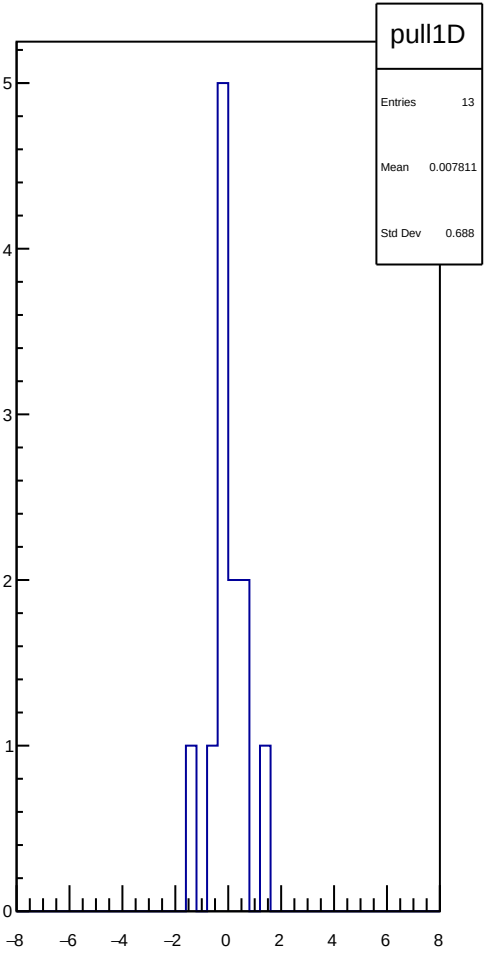
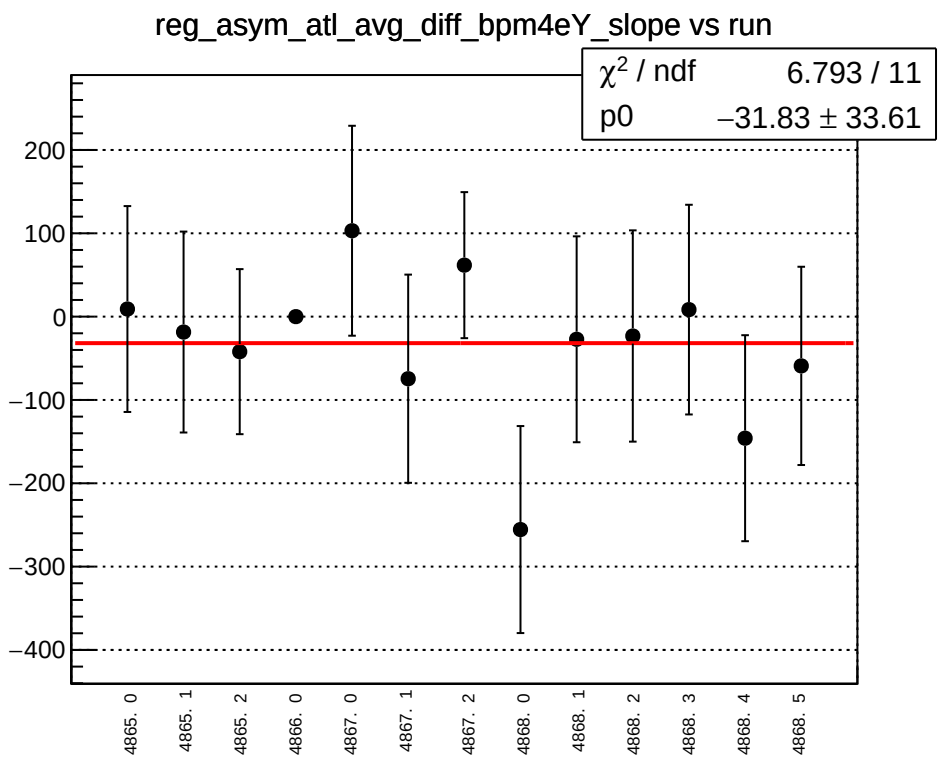
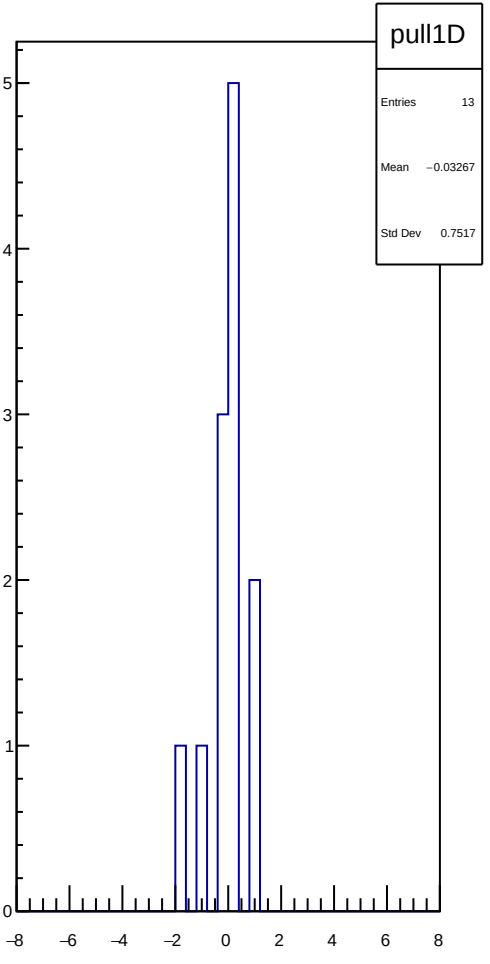
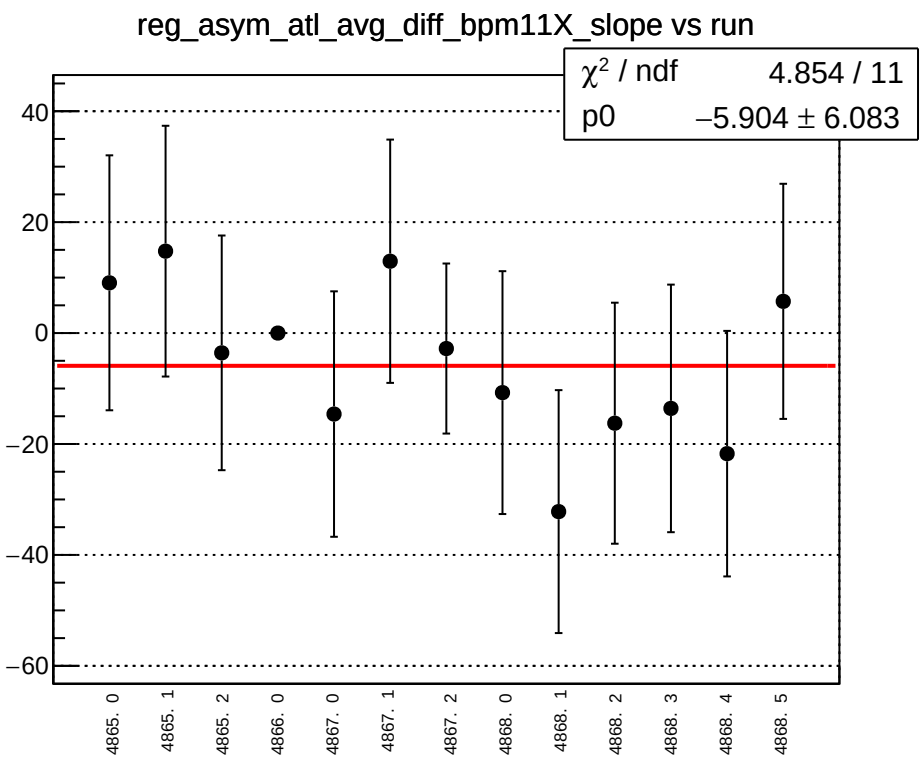
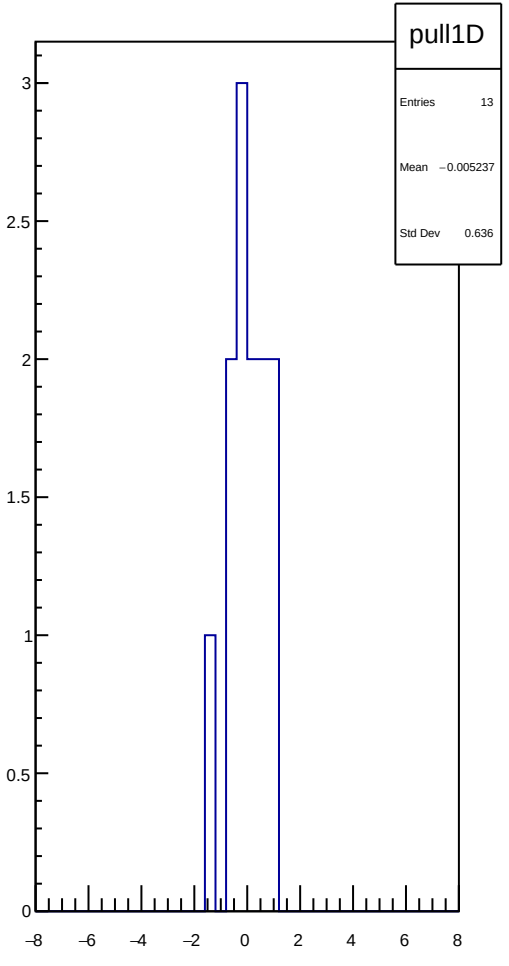
4868. 4
4868. 5

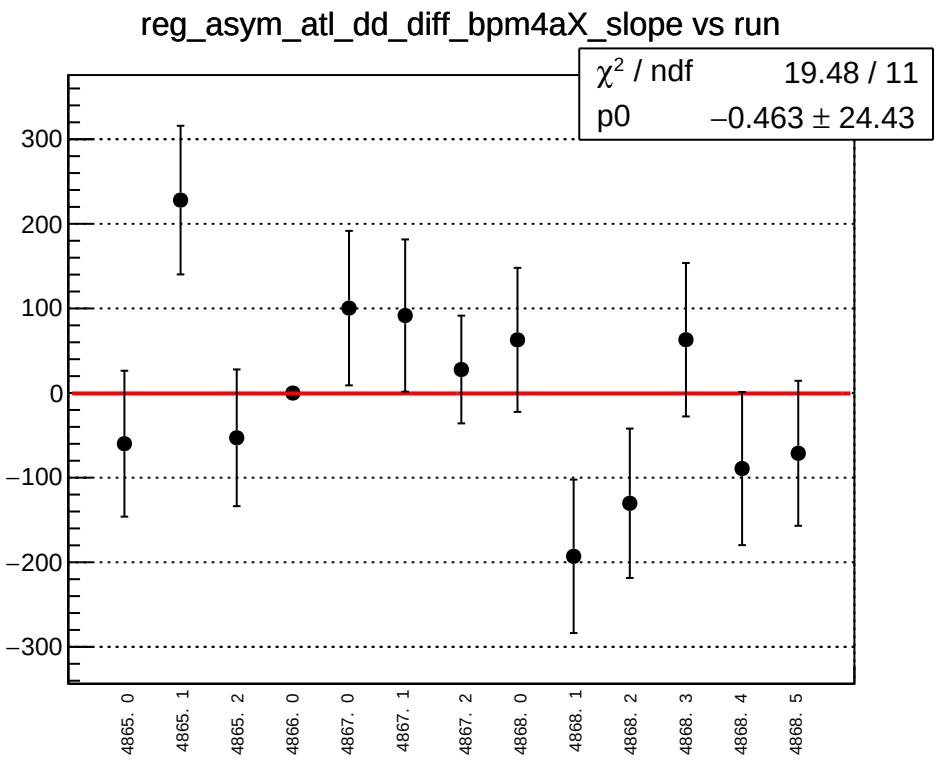

pull1D
Entries 13
Mean 0.007811
Std Dev 0.688
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.793 / 11
p0 −31.83 ± 33.61
200
100
0
−100
−200
−300
−400
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.03267
Std Dev 0.7517
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_diff_bpm11X_slope vs run
χ² / ndf 4.854 / 11
p0 −5.904 ± 6.083
40
20
0
−20
−40
−60
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.005237
Std Dev 0.636
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 19.48 / 11
p0 −0.463 ± 24.43
300
200
100
0
−100
−200
−300
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
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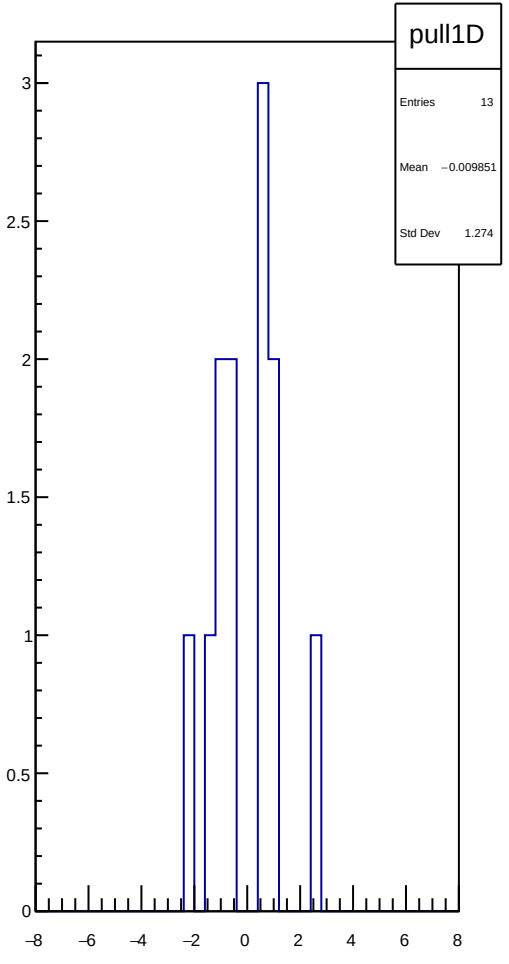
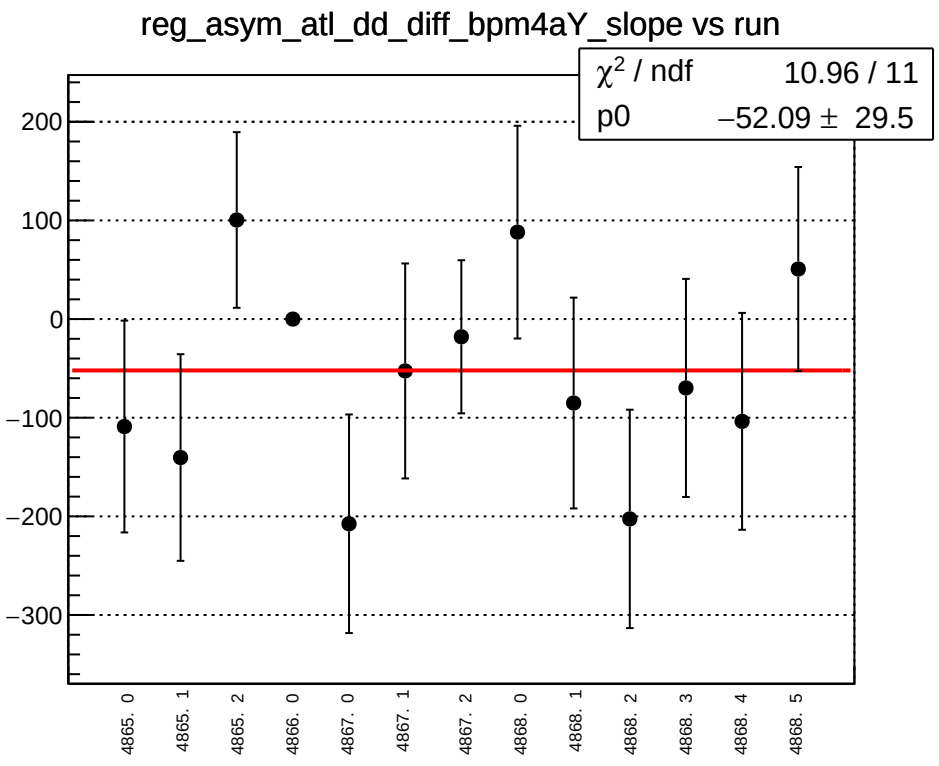
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.009851
Std Dev 1.274
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.96 / 11
p0 −52.09 ± 29.5
200
100
0
−100
−200
−300
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
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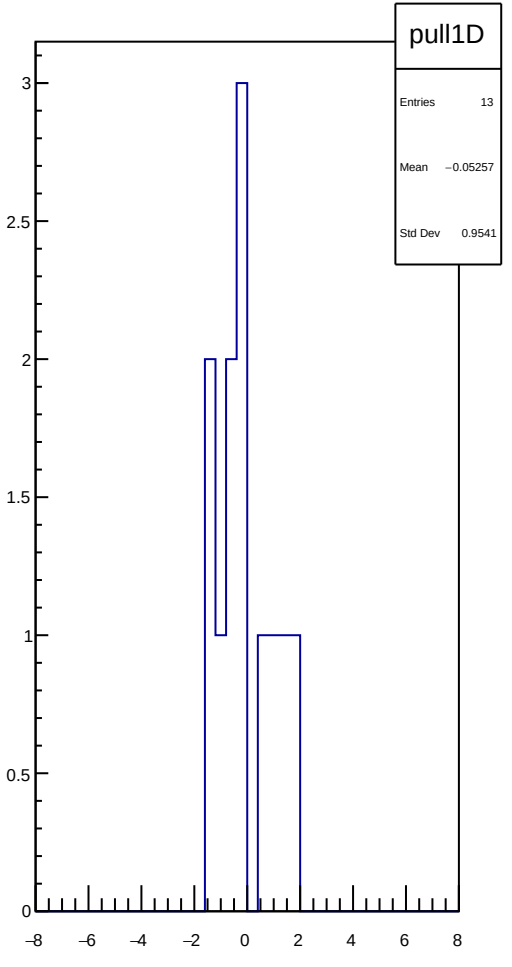
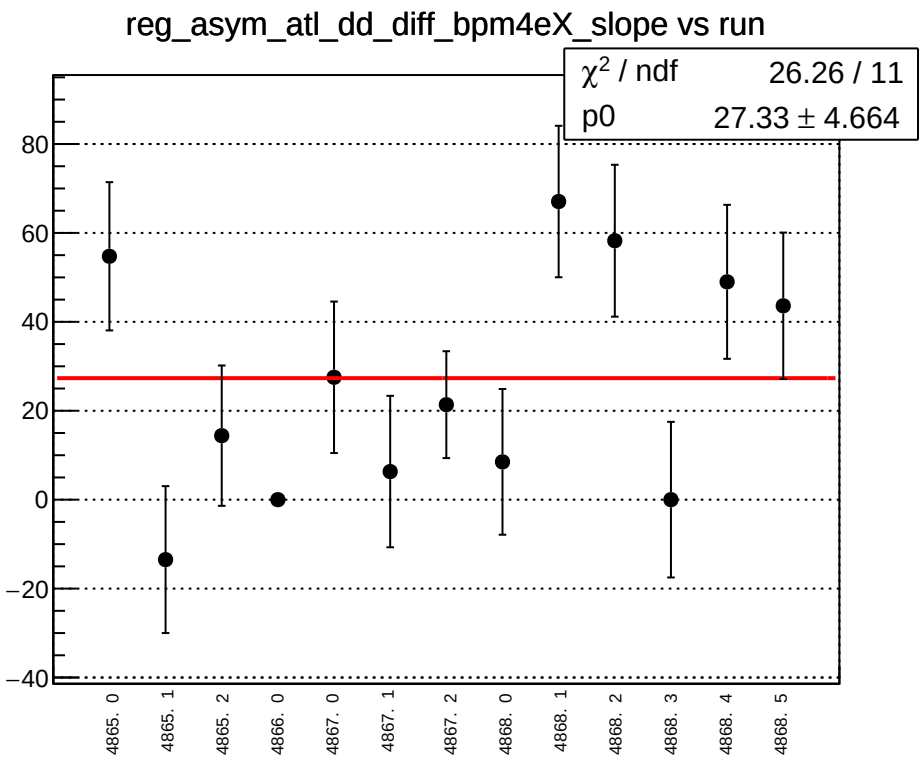
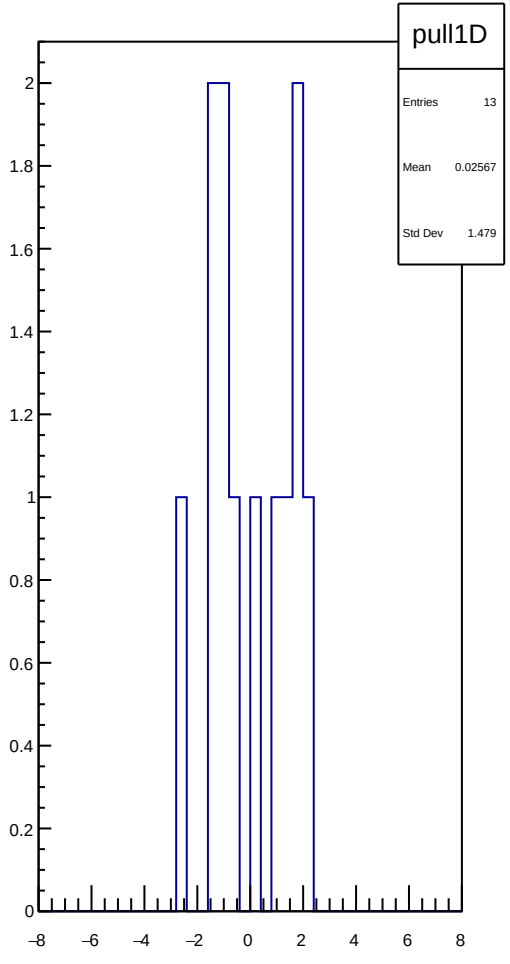
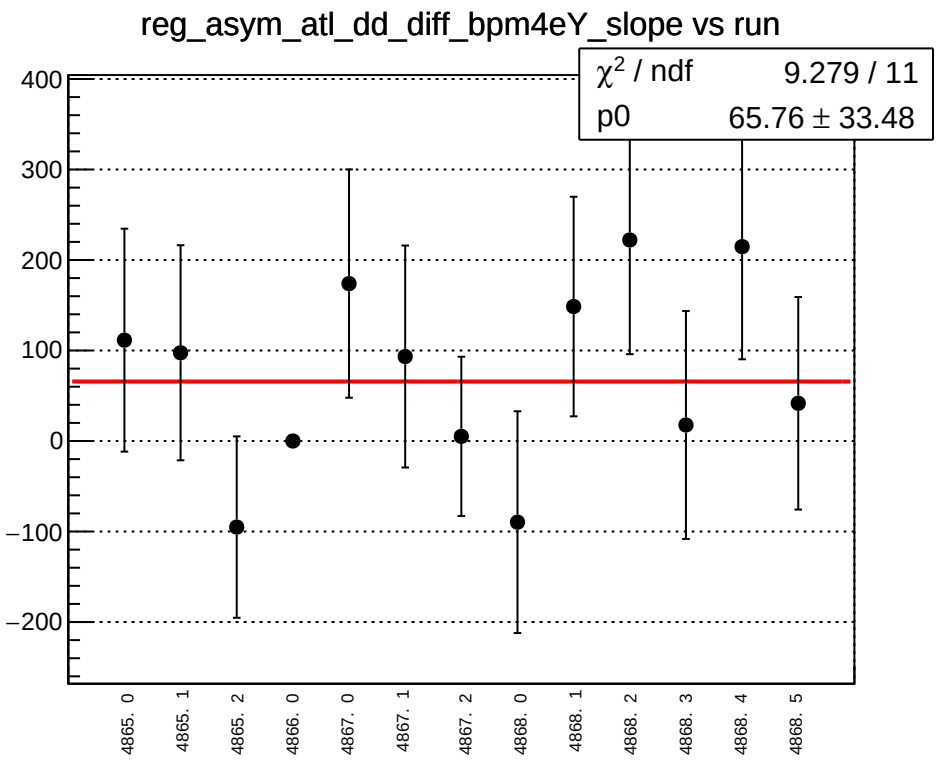
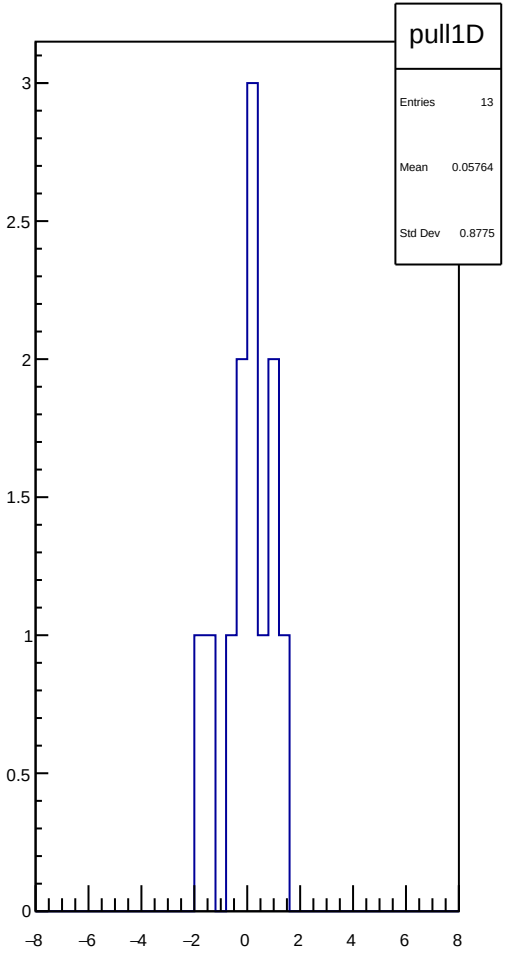
4868. 2
4868. 3
4868. 4
4868. 5

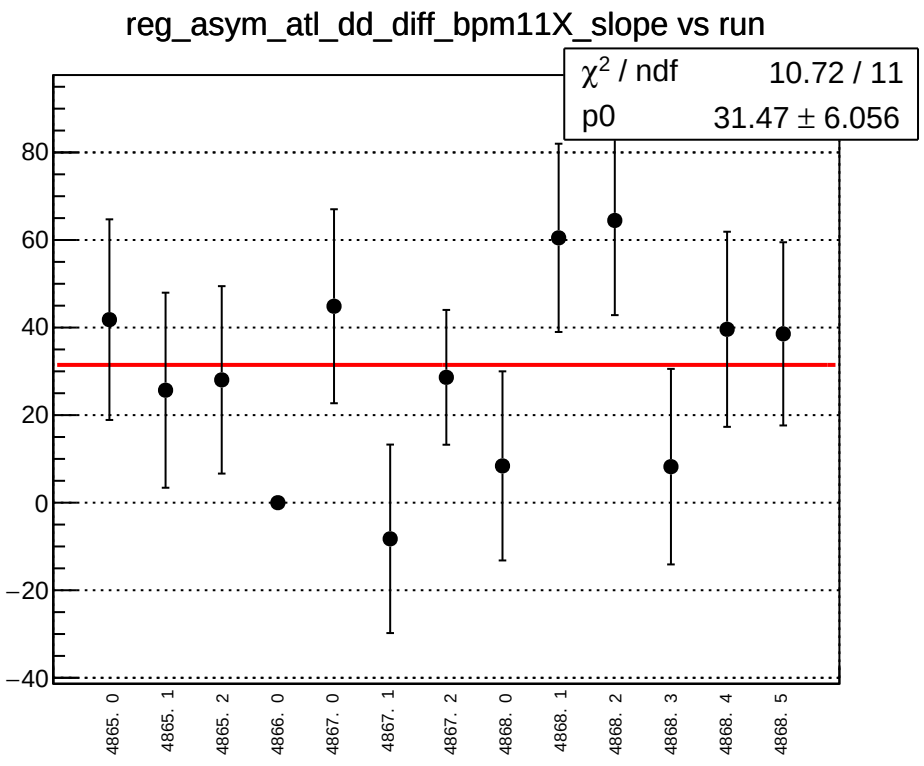

pull1D
Entries 13
Mean −0.05257
Std Dev 0.9541
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 26.26 / 11
p0 27.33 ± 4.664
80
60
40
20
0
−20
−40
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.02567
Std Dev 1.479
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.279 / 11
p0 65.76 ± 33.48
400
300
200
100
0
−100
−200
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.05764
Std Dev 0.8775
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_diff_bpm11X_slope vs run
χ² / ndf 10.72 / 11
p0 31.47 ± 6.056
80
60
40
20
0
−20
−40
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
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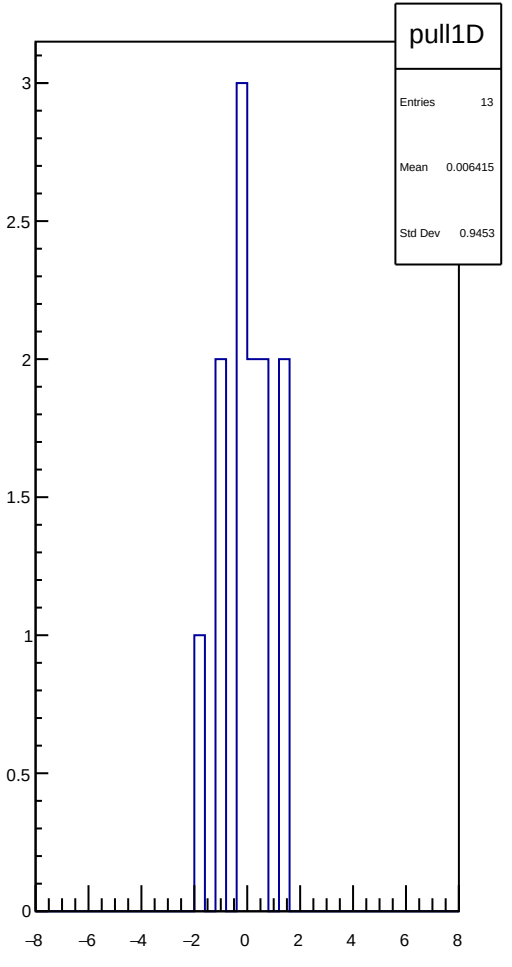
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.006415
Std Dev 0.9453
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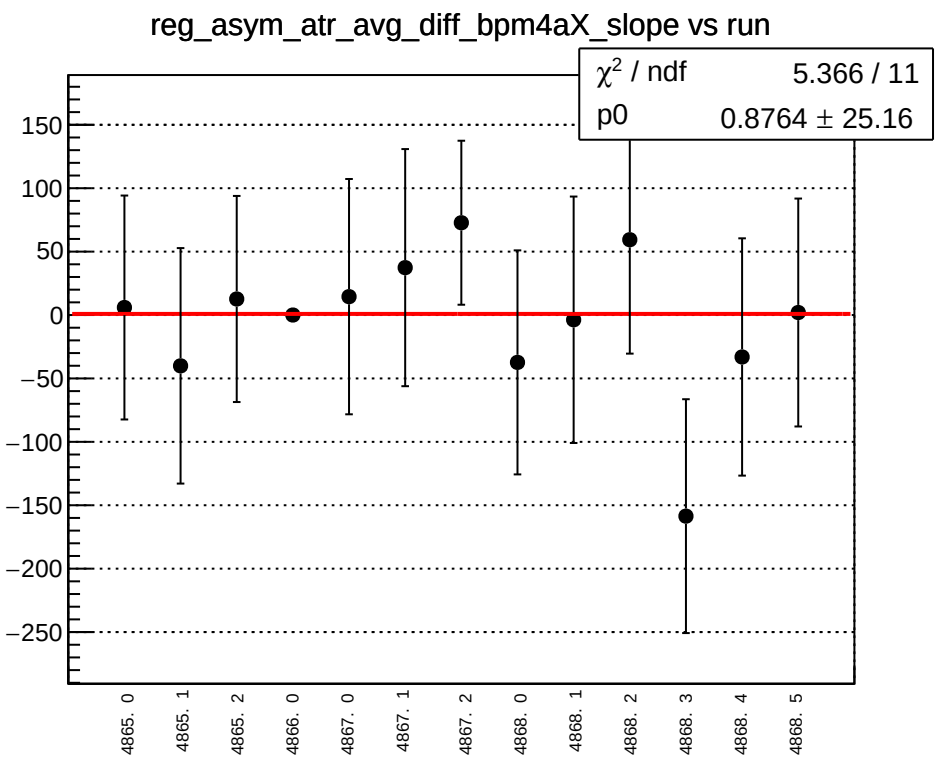
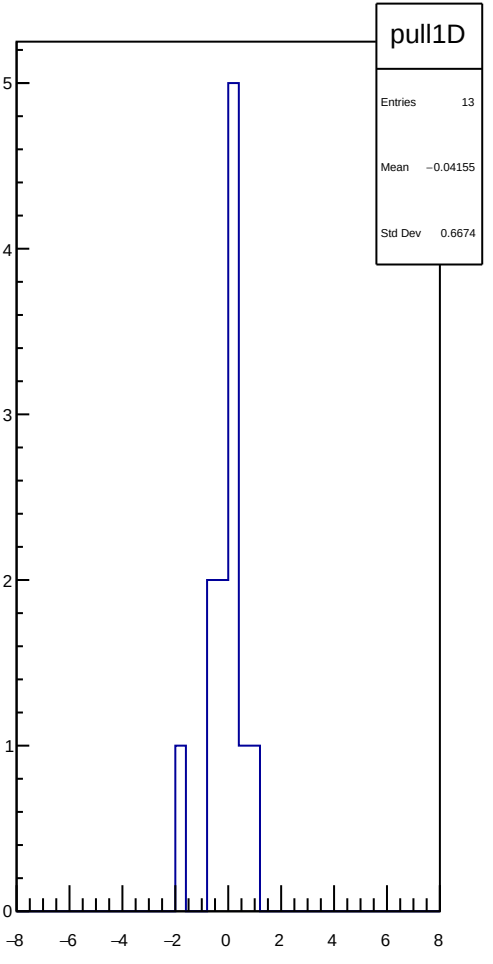
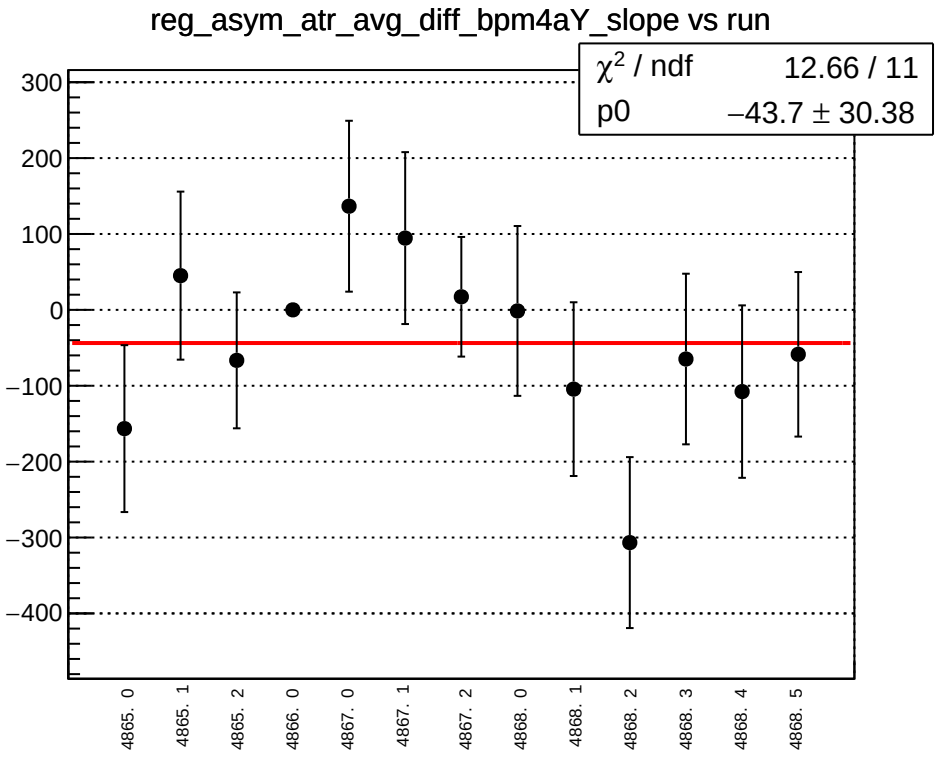
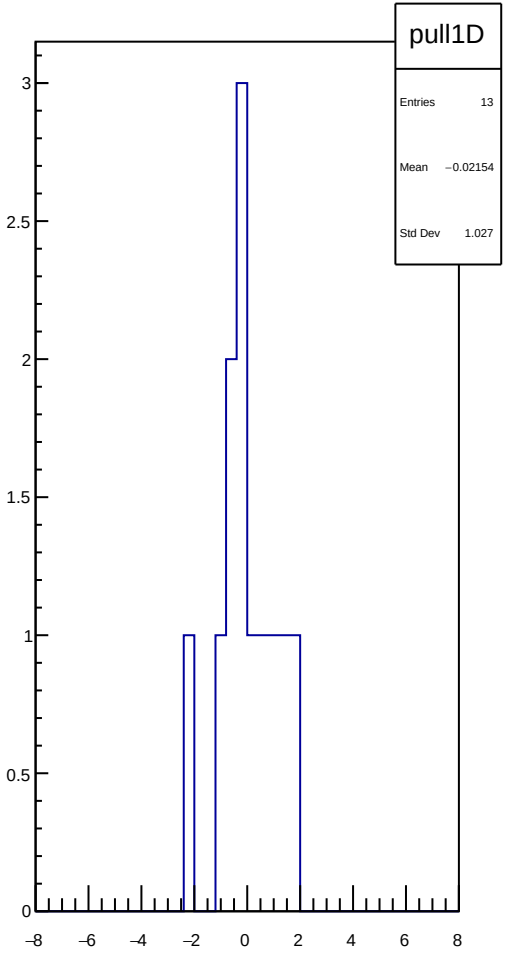
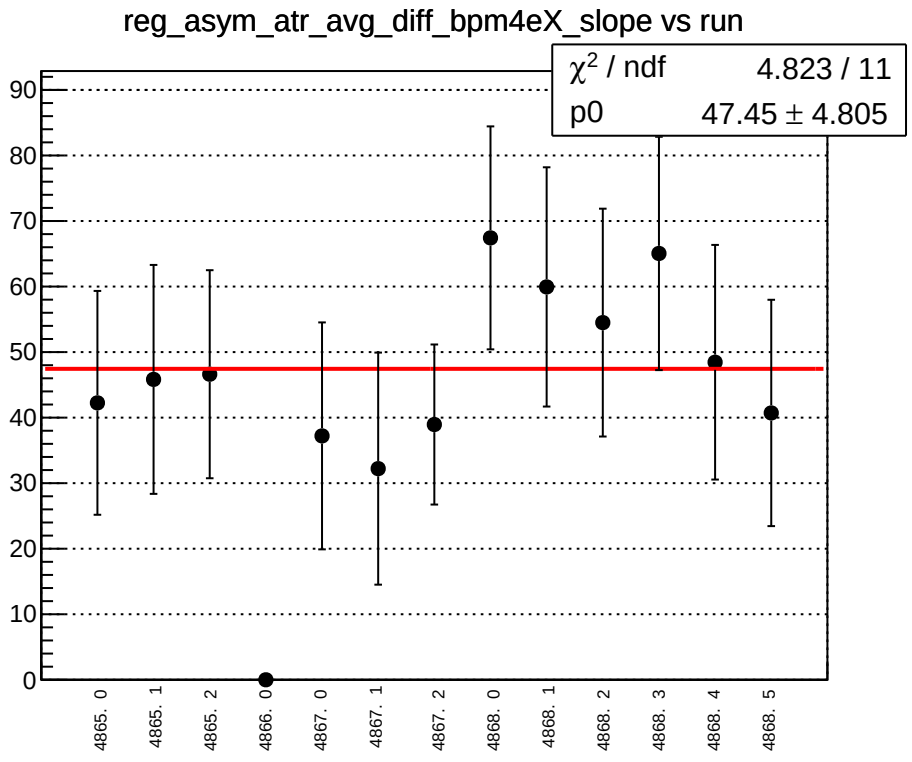
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

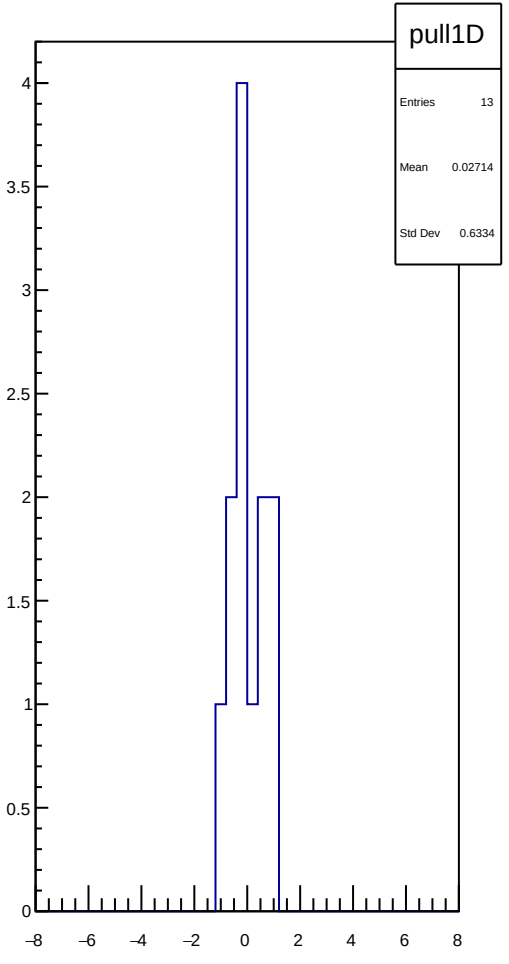

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 5.366 / 11
p0 0.8764 ± 25.16
150
100
50
0
−50
−100
−150
−200
−250
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

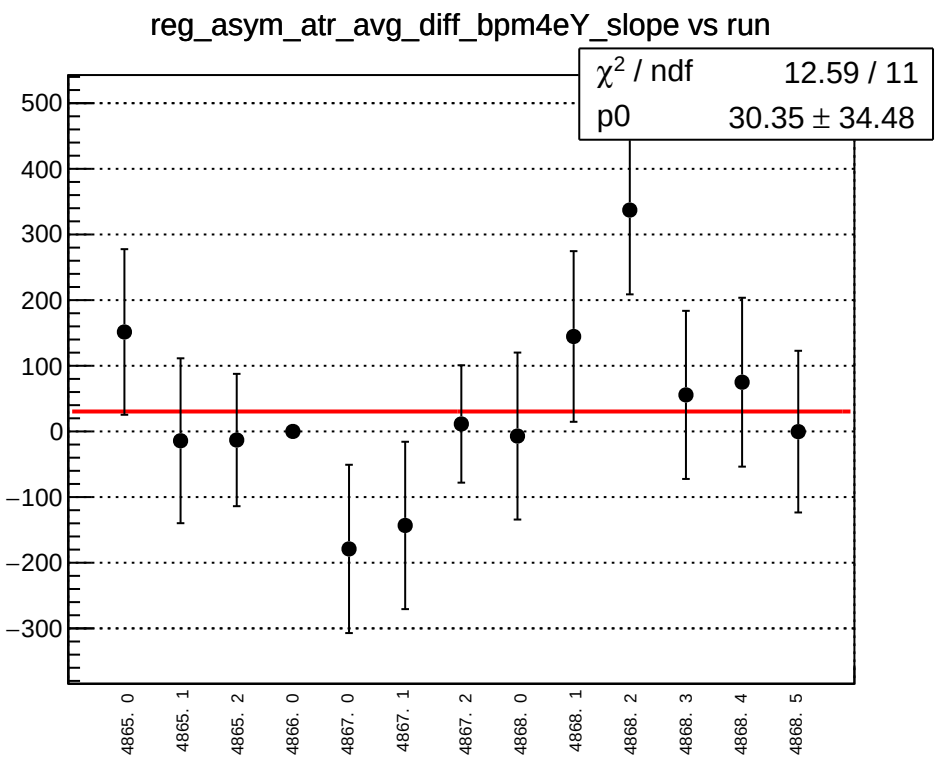

pull1D
Entries 13
Mean −0.04155
Std Dev 0.6674
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

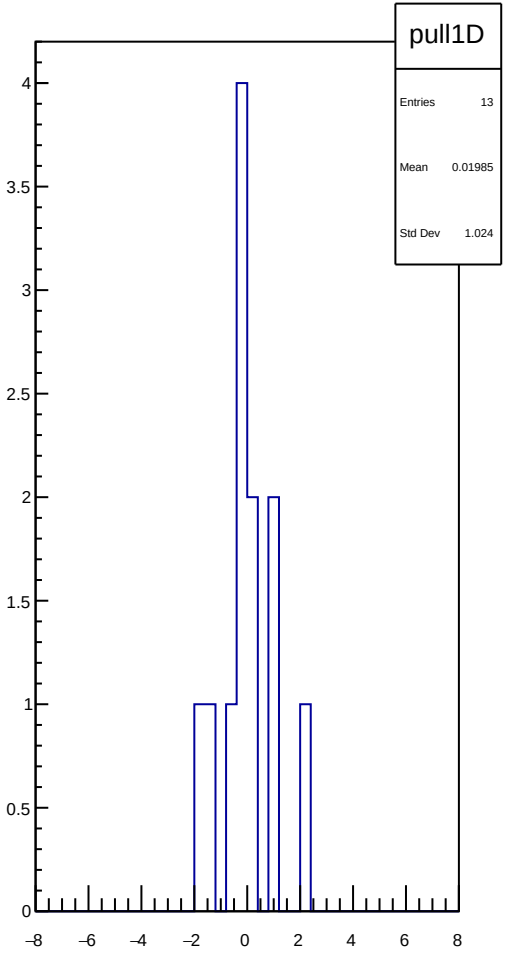

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.66 / 11
p0 −43.7 ± 30.38
300
200
100
0
−100
−200
−300
−400
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

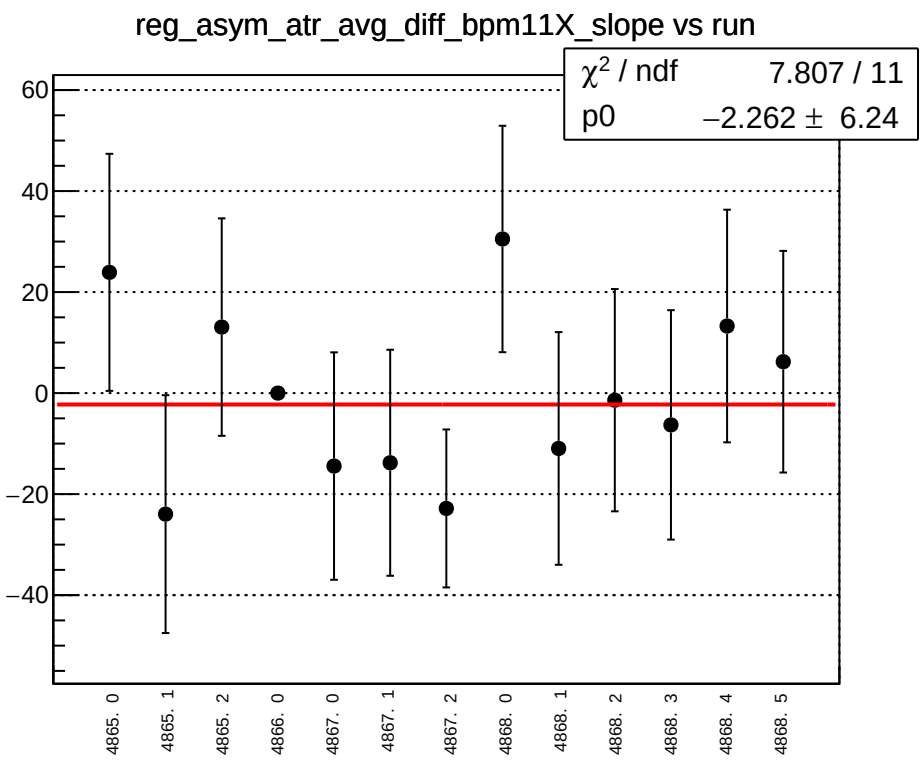

pull1D
Entries 13
Mean −0.02154
Std Dev 1.027
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.823 / 11
p0 47.45 ± 4.805
90
80
70
60
50
40
30
20
10
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.02714
Std Dev 0.6334
4
3.5
3
2.5
2
1.5
1
0.5
0
–8
–6
–4
–2
0
2
4
6
8


reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.59 / 11
p0 30.35 ± 34.48
500
400
300
200
100
0
−100
−200
−300
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.01985
Std Dev 1.024
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr_avg_diff_bpm11X_slope vs run
χ² / ndf 7.807 / 11
p0 −2.262 ± 6.24
60
40
20
0
−20
−40
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
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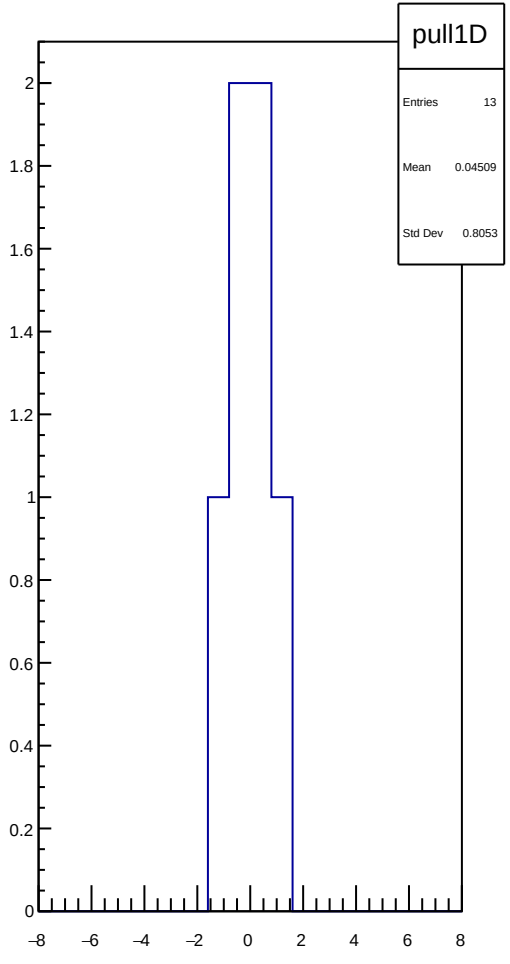
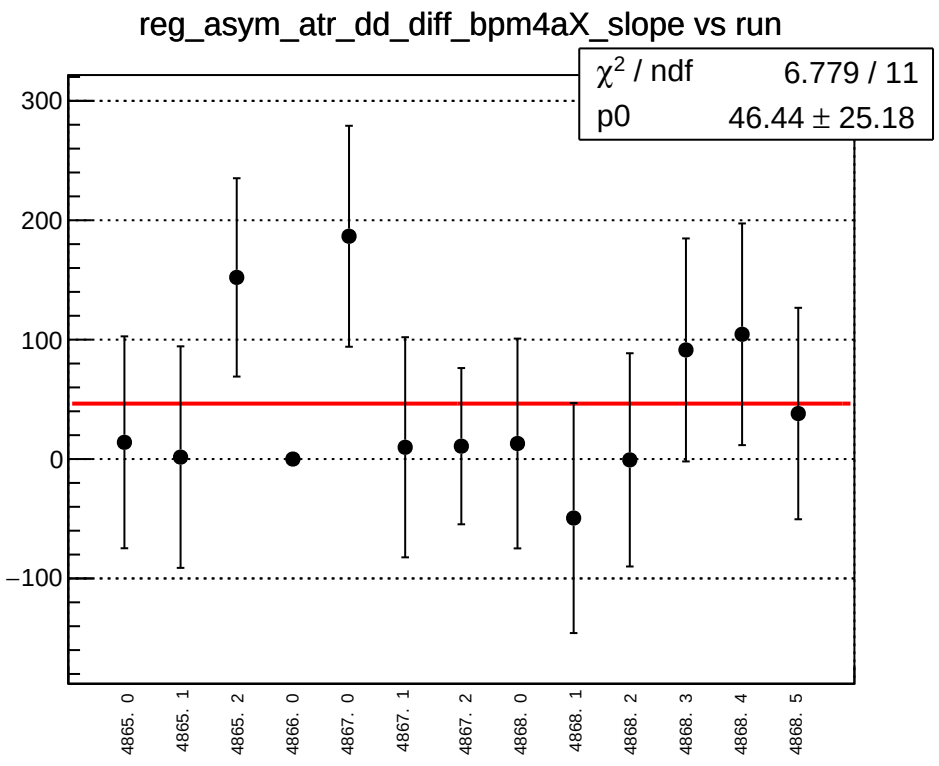
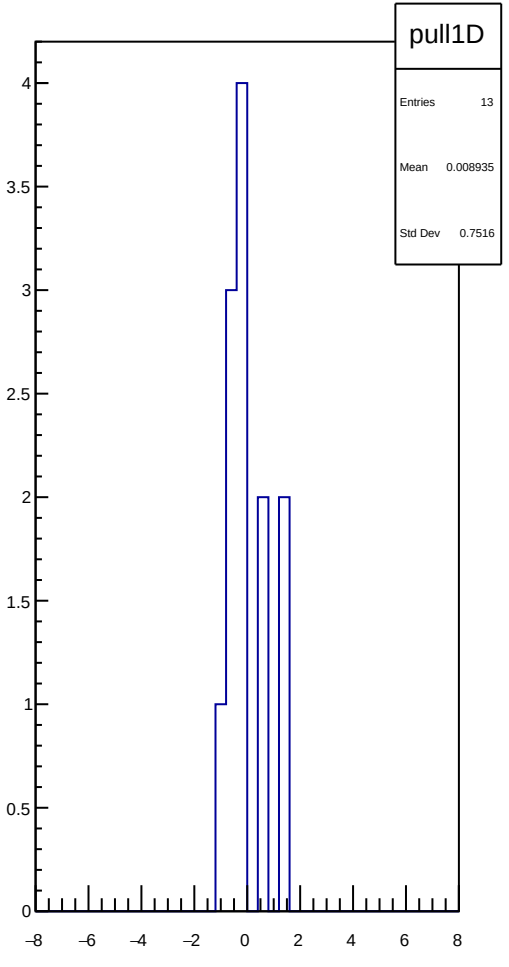
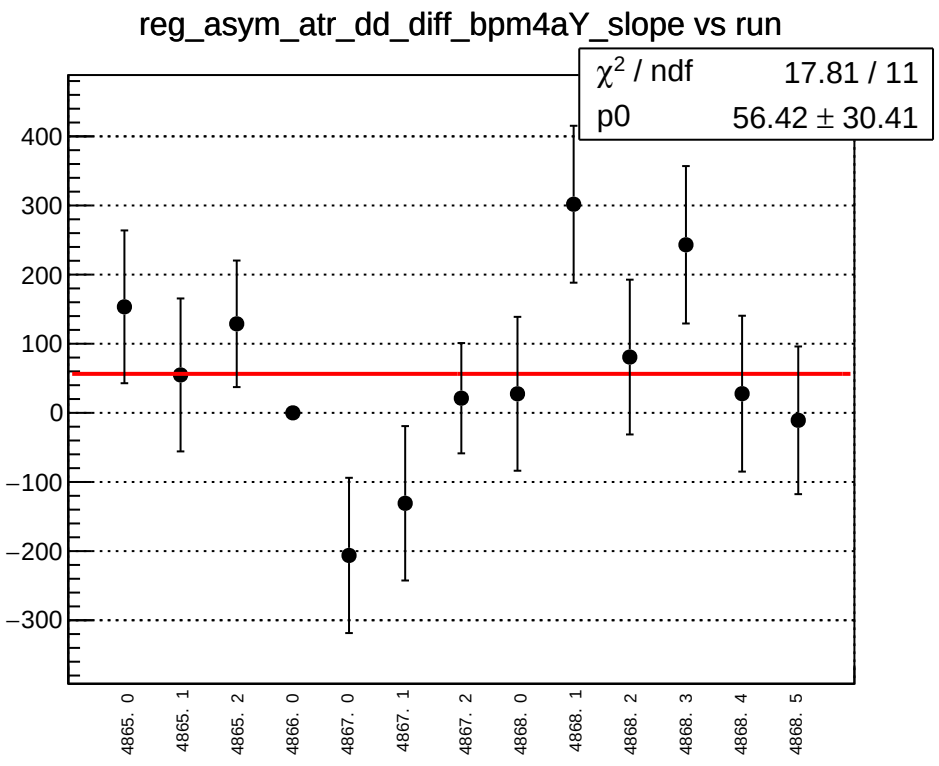
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.04509
Std Dev 0.8053
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 6.779 / 11
p0 46.44 ± 25.18
300
200
100
0
−100
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.008935
Std Dev 0.7516
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.81 / 11
p0 56.42 ± 30.41
400
300
200
100
0
−100
−200
−300
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
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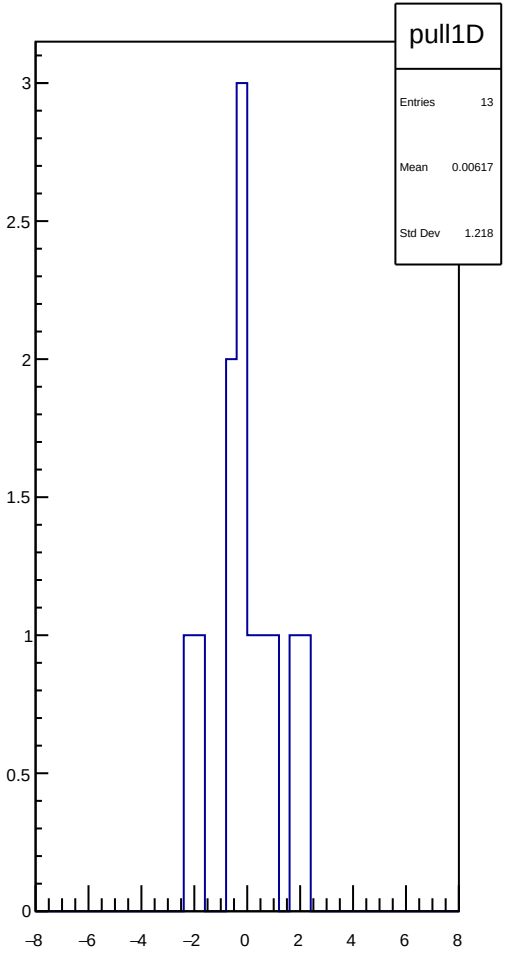
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.00617
Std Dev 1.218
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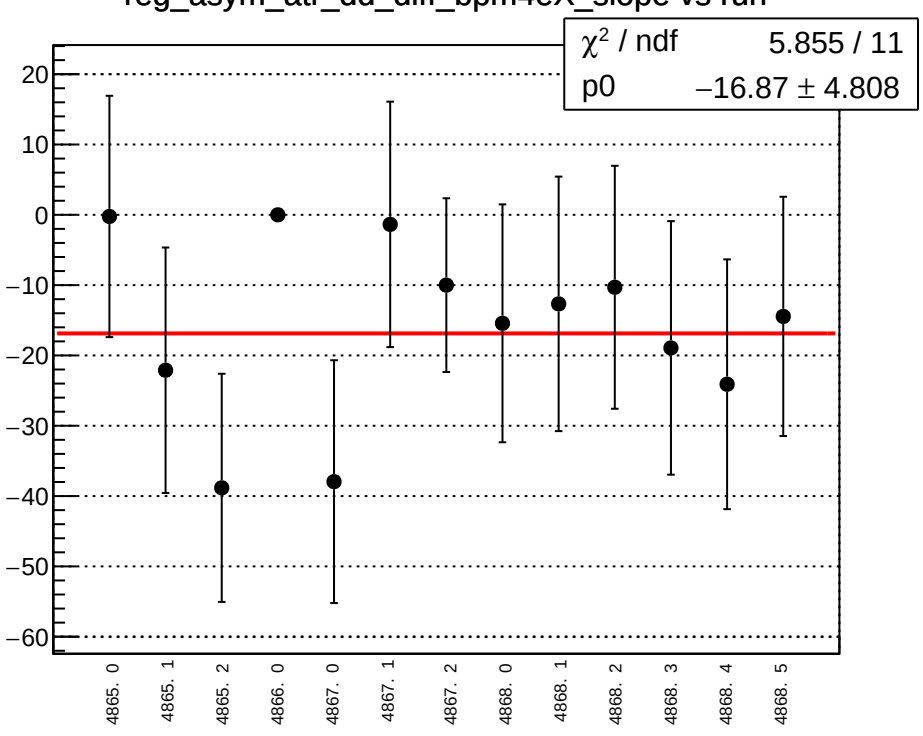
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.855 / 11
p0 −16.87 ± 4.808
20
10
0
−10
−20
−30
−40
−50
−60
4865. 0
4865. 1
4865. 2
4866. 0
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4867. 1
4867. 2
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4868. 2
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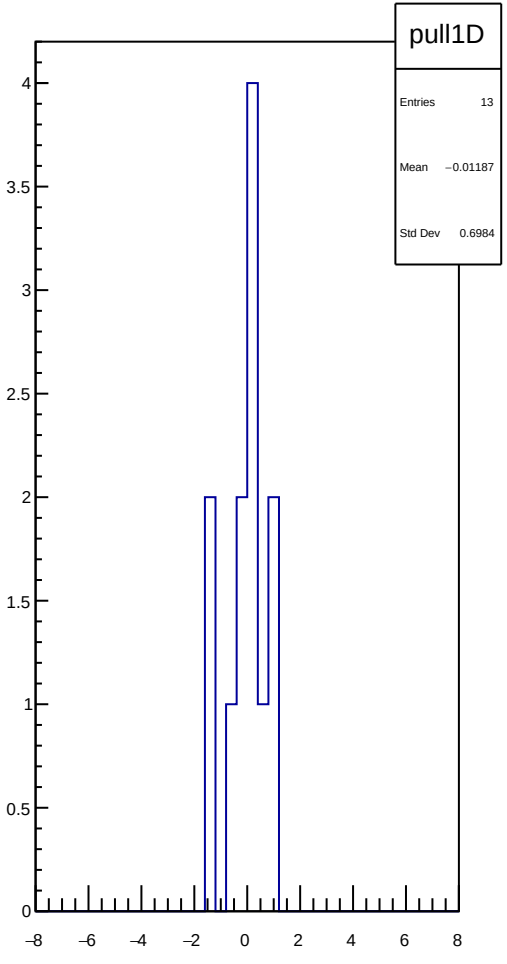
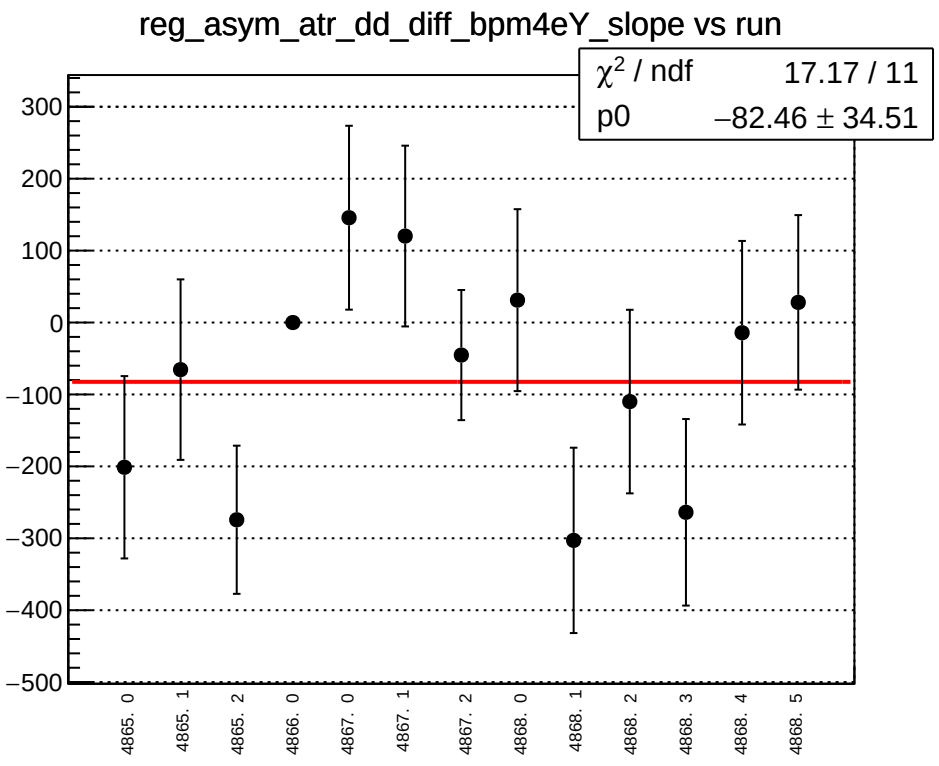
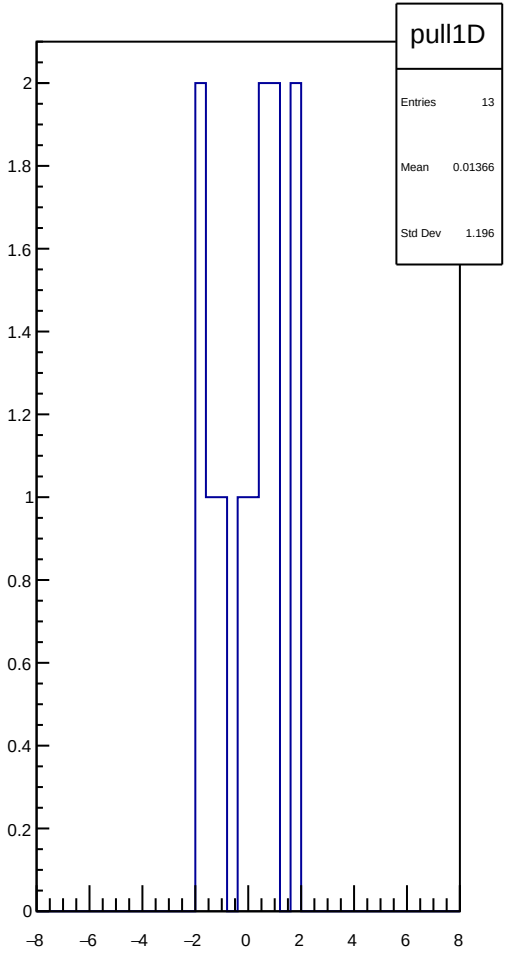
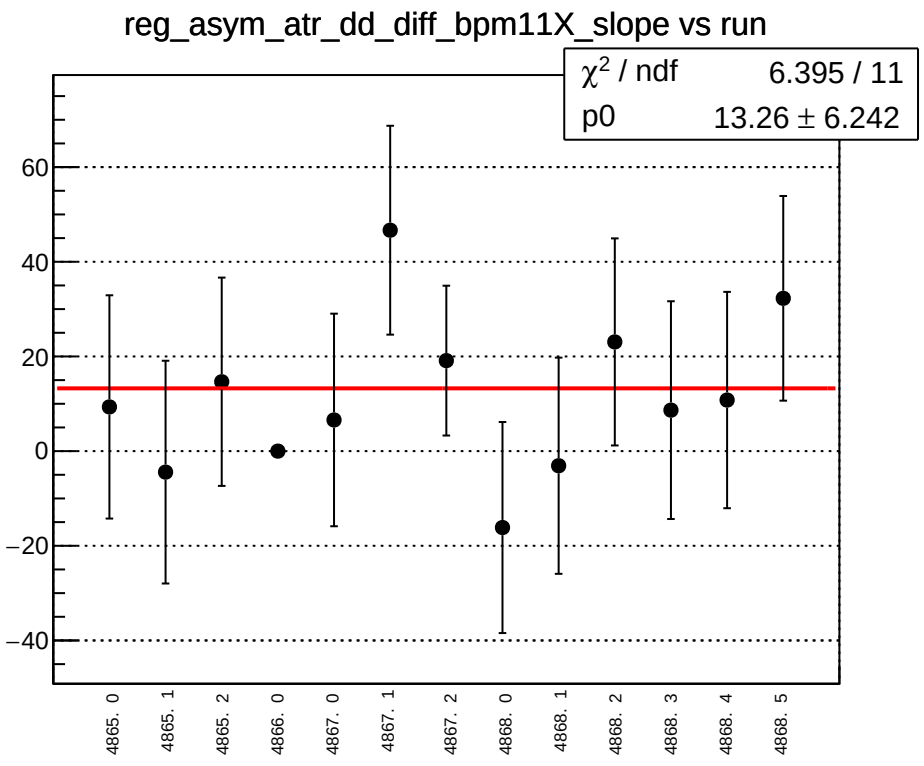
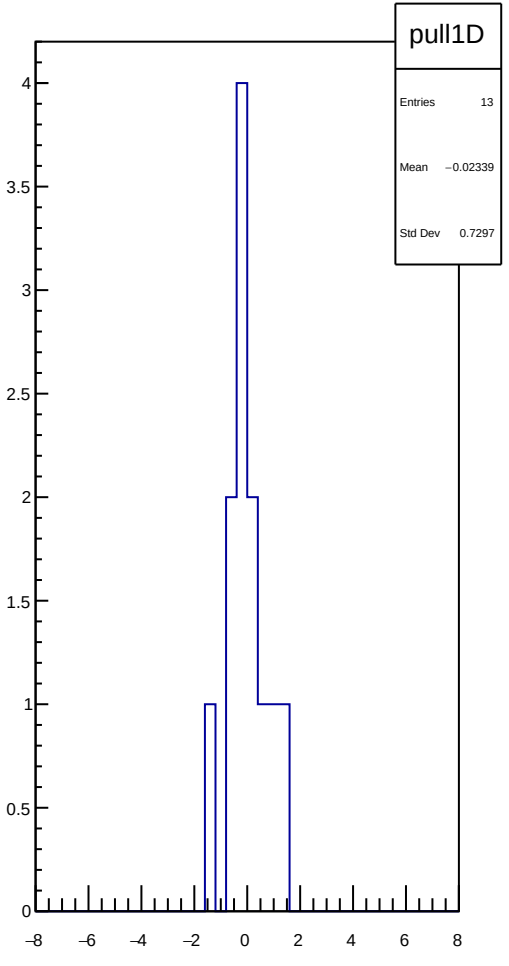
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.01187
Std Dev 0.6984
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.17 / 11
p0 −82.46 ± 34.51
300
200
100
0
−100
−200
−300
−400
−500
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.01366
Std Dev 1.196
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr_dd_diff_bpm11X_slope vs run
χ² / ndf 6.395 / 11
p0 13.26 ± 6.242
60
40
20
0
−20
−40
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.02339
Std Dev 0.7297
4
3.5
3
2.5
2
1.5
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−4
−2
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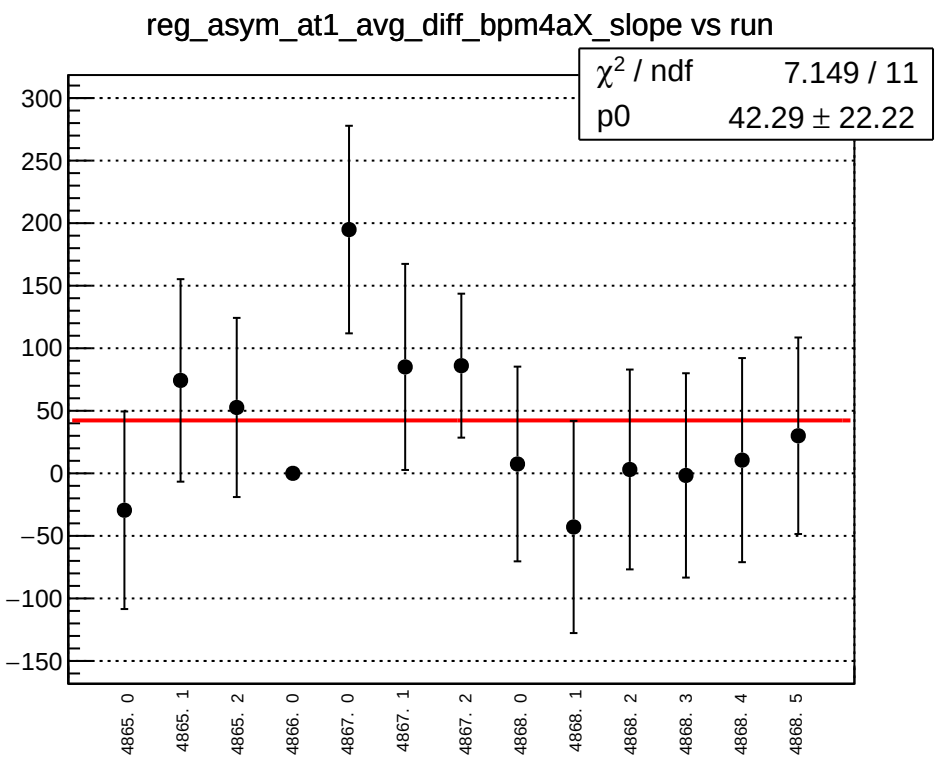
2
4
6
8


reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 7.149 / 11
p0 42.29 ± 22.22
300
250
200
150
100
50
0
−50
−100
−150
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
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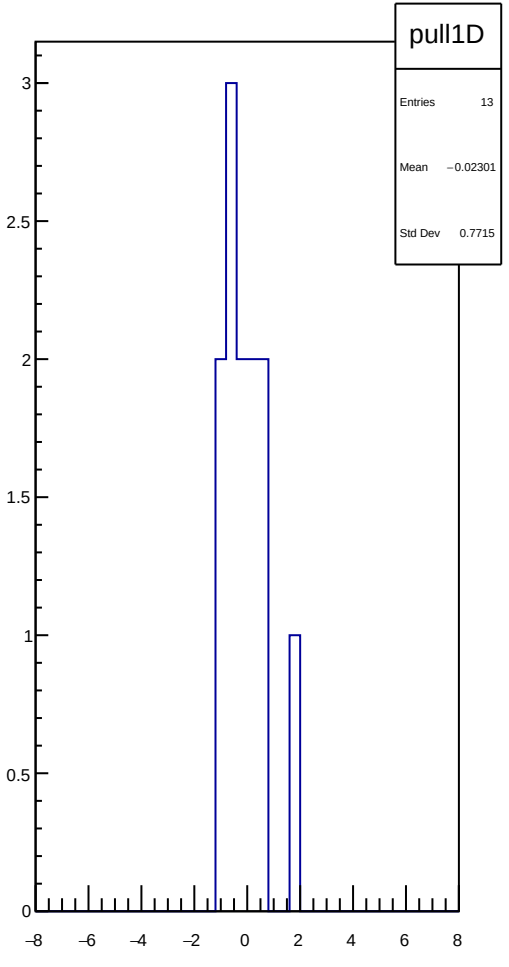
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.02301
Std Dev 0.7715
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2
1.5
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0.5
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−6
−4
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2
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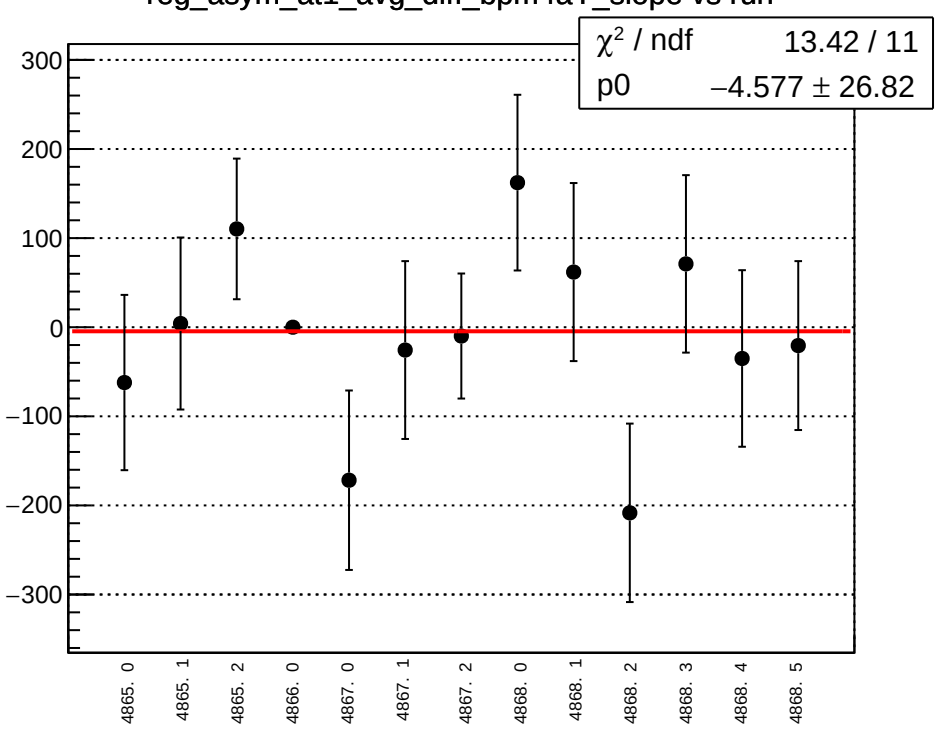
6
8


reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.42 / 11
p0 −4.577 ± 26.82
300
200
100
0
−100
−200
−300
4865. 0
4865. 1
4865. 2
4866. 0
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4867. 1
4867. 2
4868. 0
4868. 1
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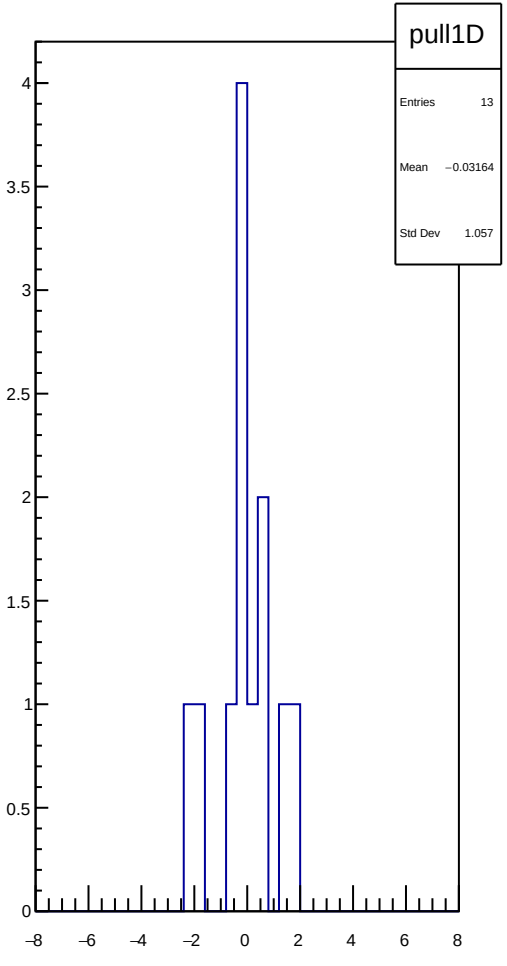
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.03164
Std Dev 1.057
4
3.5
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2.5
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1.5
1
0.5
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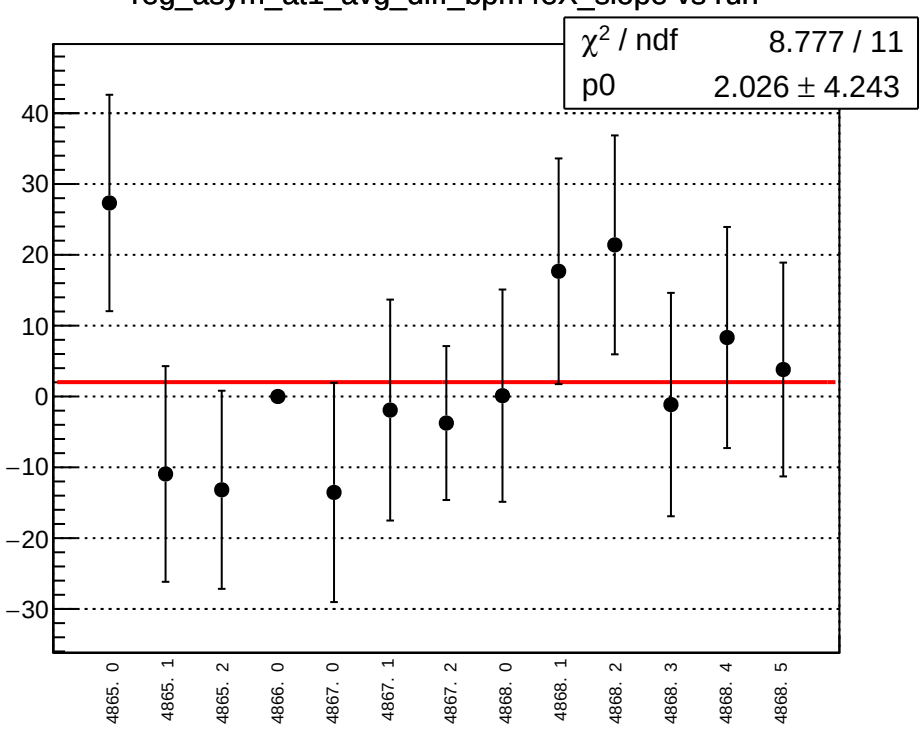
−4
−2
0
2
4
6
8


reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.777 / 11
p0 2.026 ± 4.243
40
30
20
10
0
−10
−20
−30
4865. 0
4865. 1
4865. 2
4866. 0
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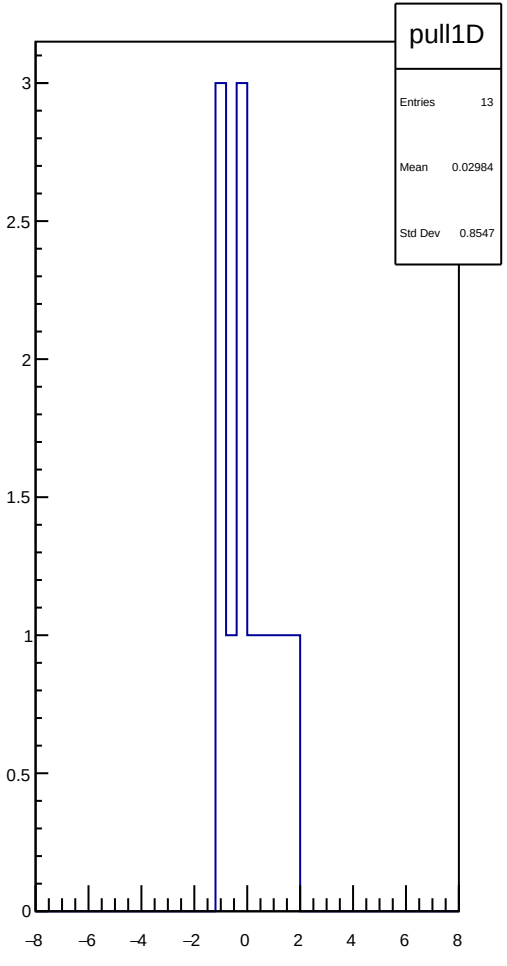
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.02984
Std Dev 0.8547
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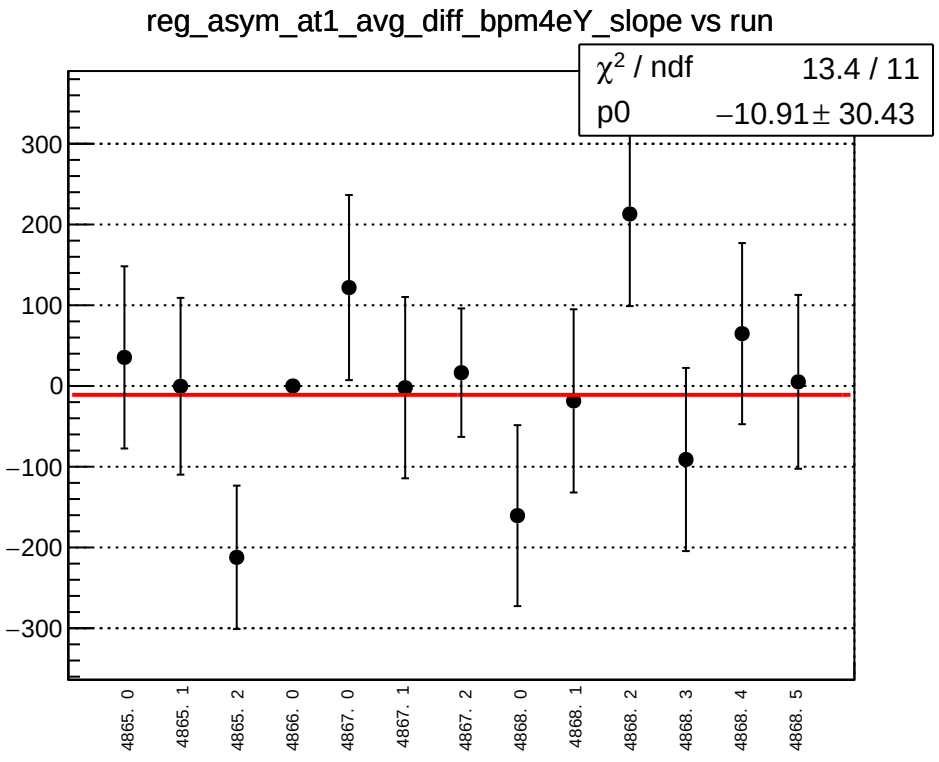
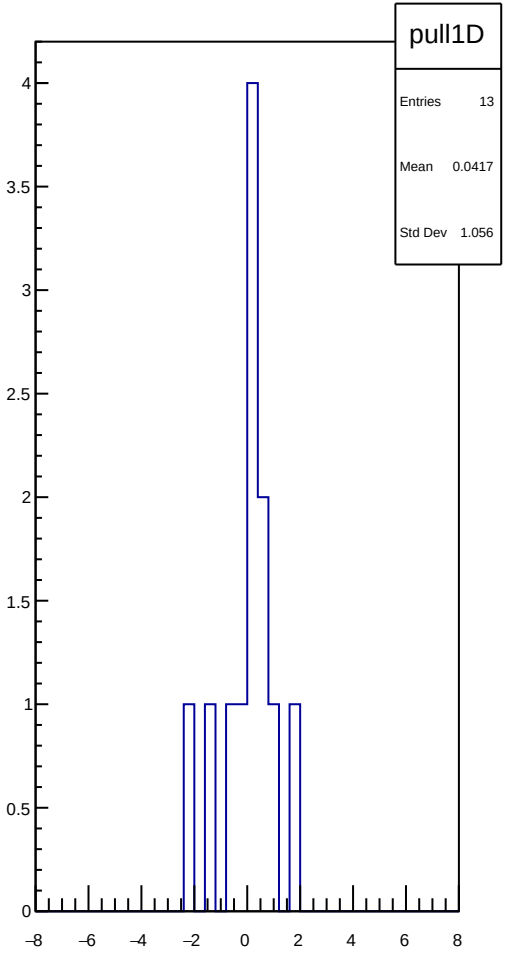
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.4 / 11
p0 −10.91± 30.43
300
200
100
0
−100
−200
−300
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.0417
Std Dev 1.056
4
3.5
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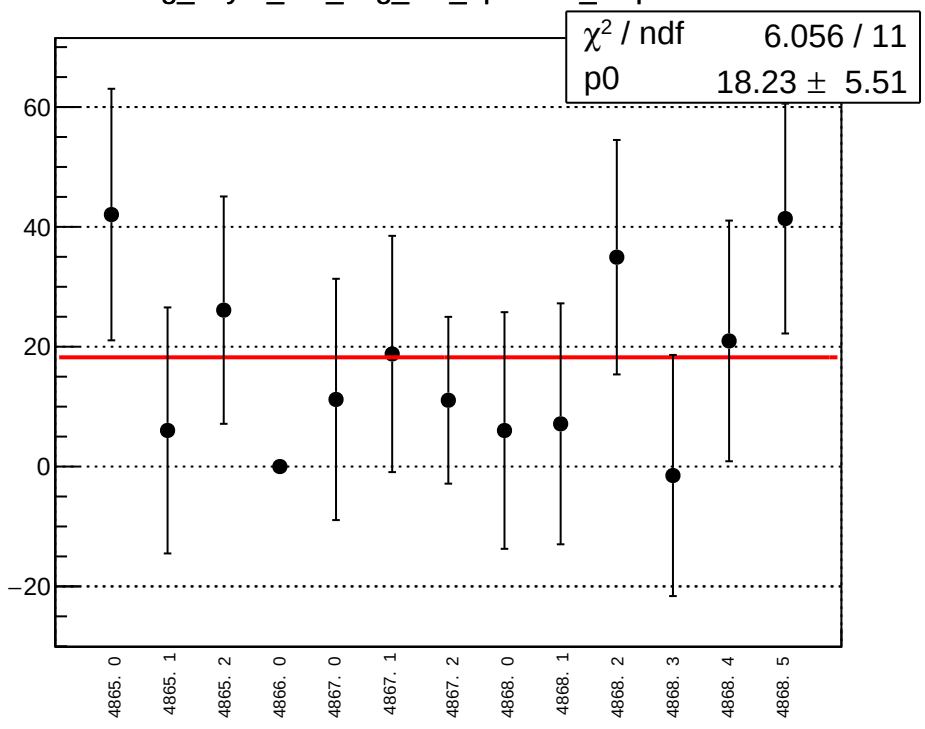
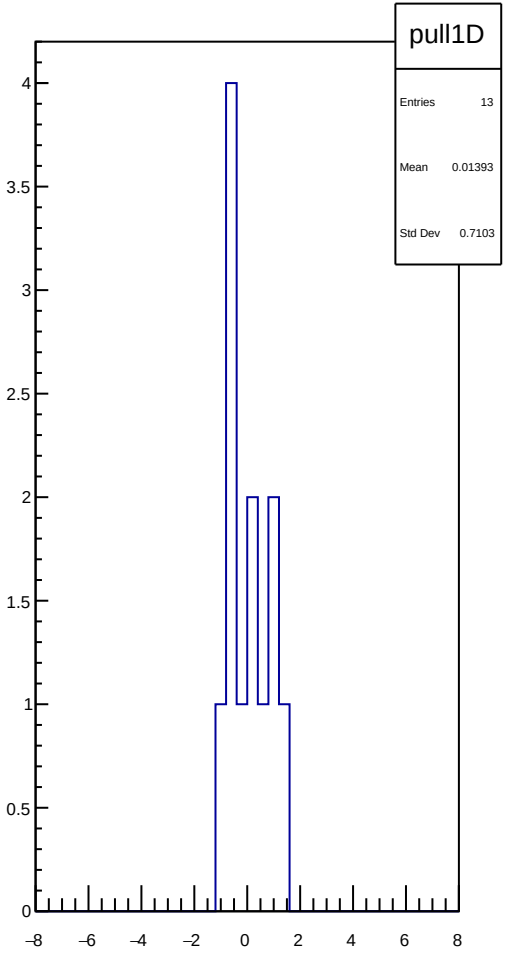
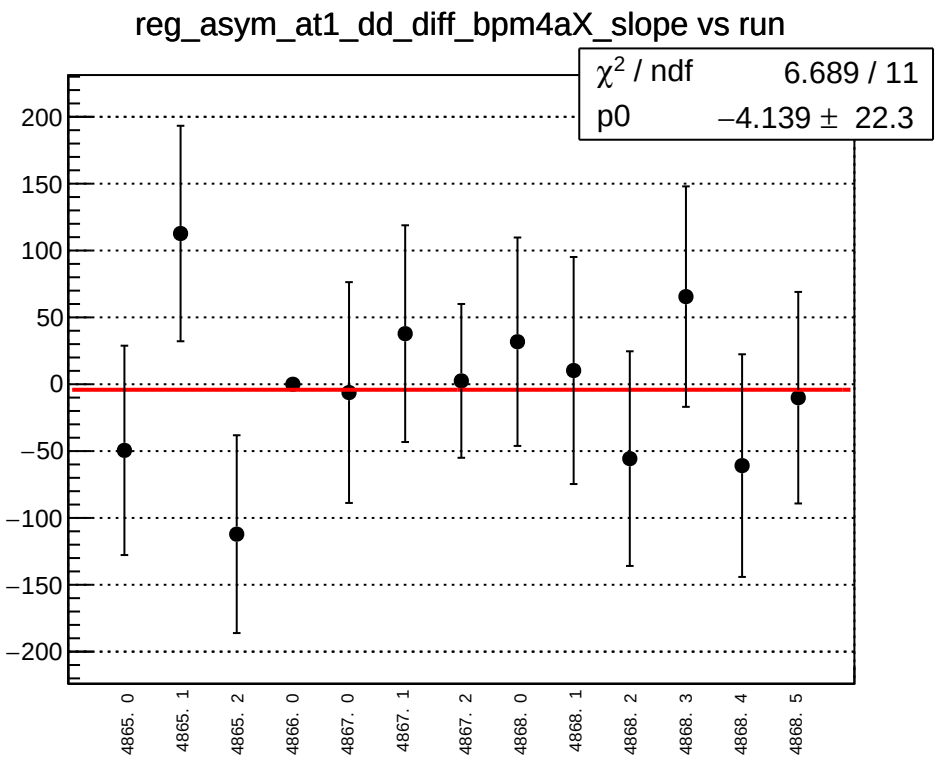
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at1_avg_diff_bpm11X_slope vs run
χ² / ndf 6.056 / 11
p0 18.23 ± 5.51
60
40
20
0
−20
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.01393
Std Dev 0.7103
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 6.689 / 11
p0 −4.139 ± 22.3
200
150
100
50
0
−50
−100
−150
−200
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
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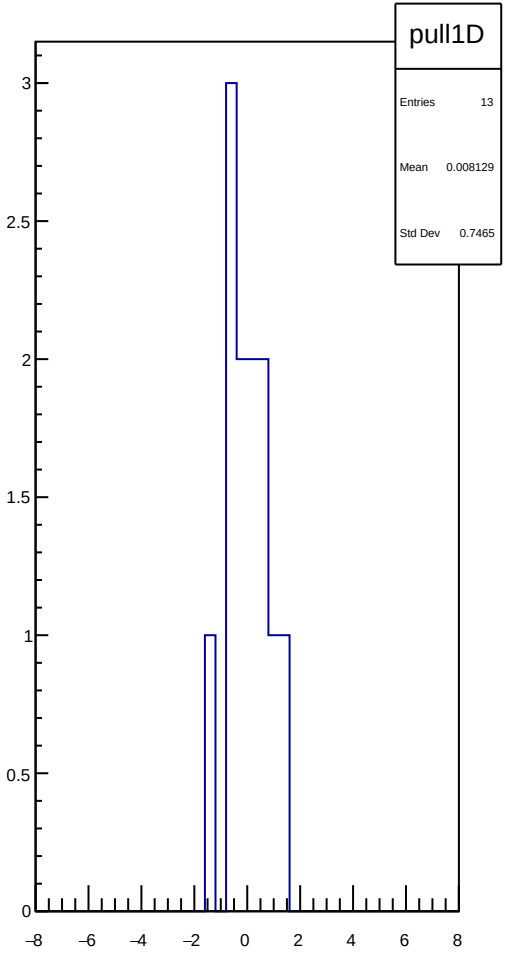
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.008129
Std Dev 0.7465
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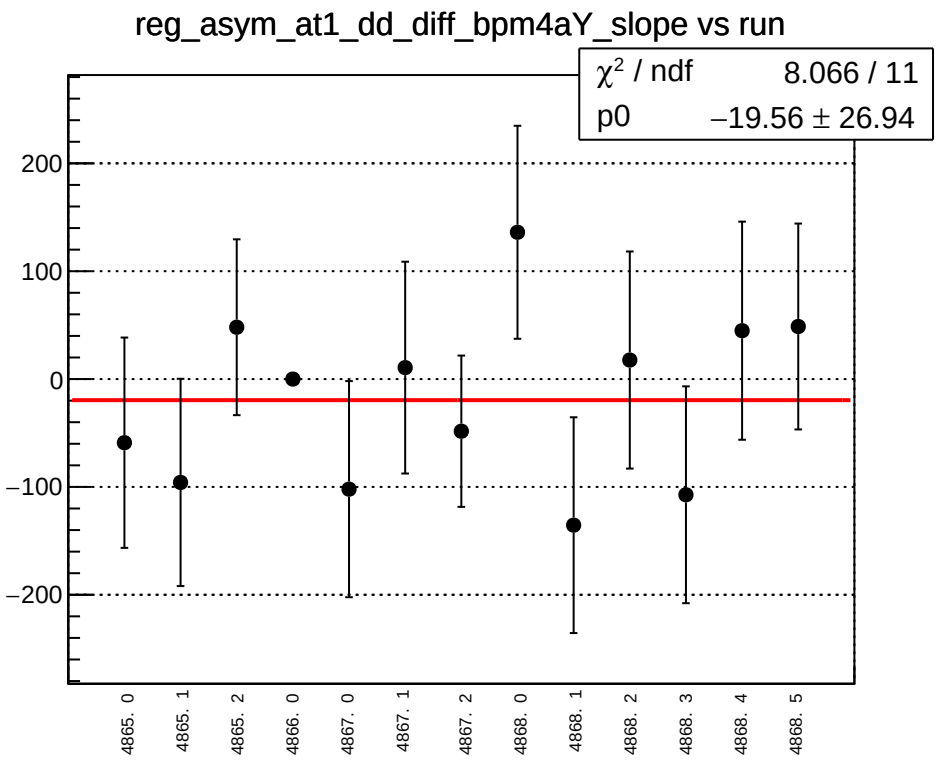
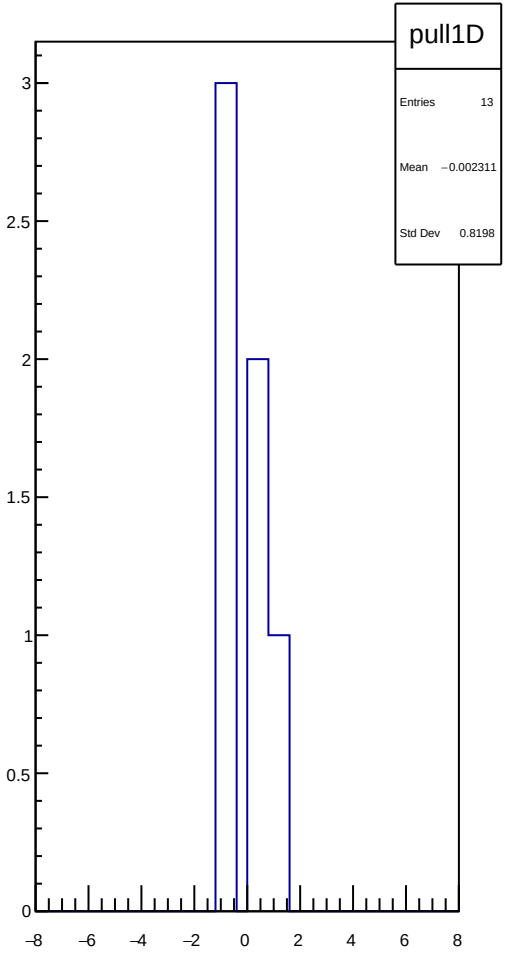
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.066 / 11
p0 −19.56 ± 26.94
200
100
0
−100
−200
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.002311
Std Dev 0.8198
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2
1.5
1
0.5
0
−8
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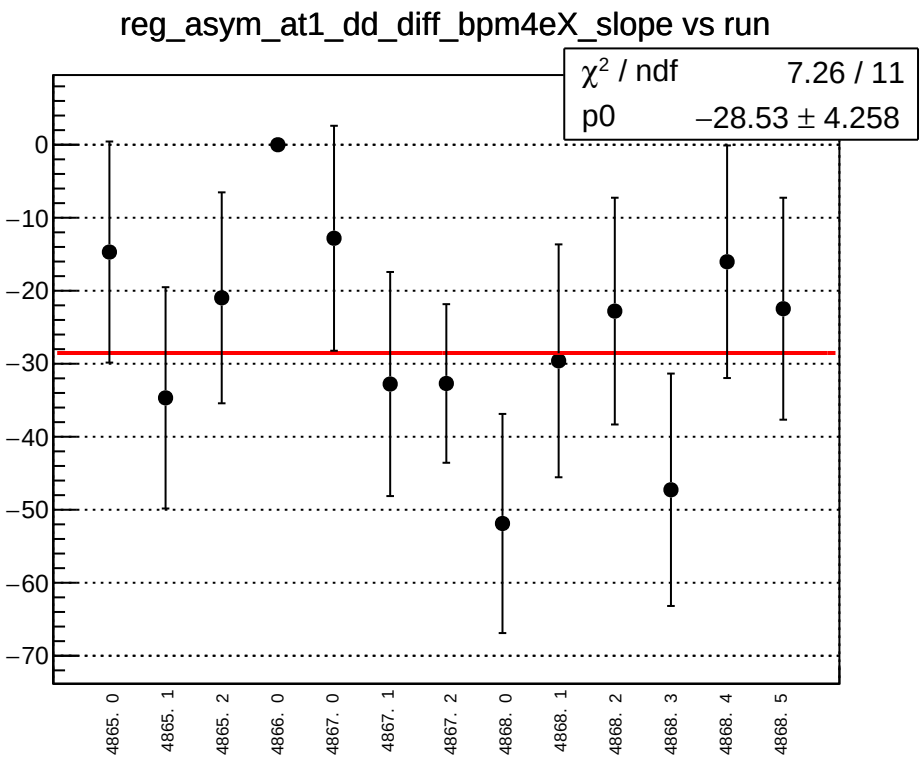
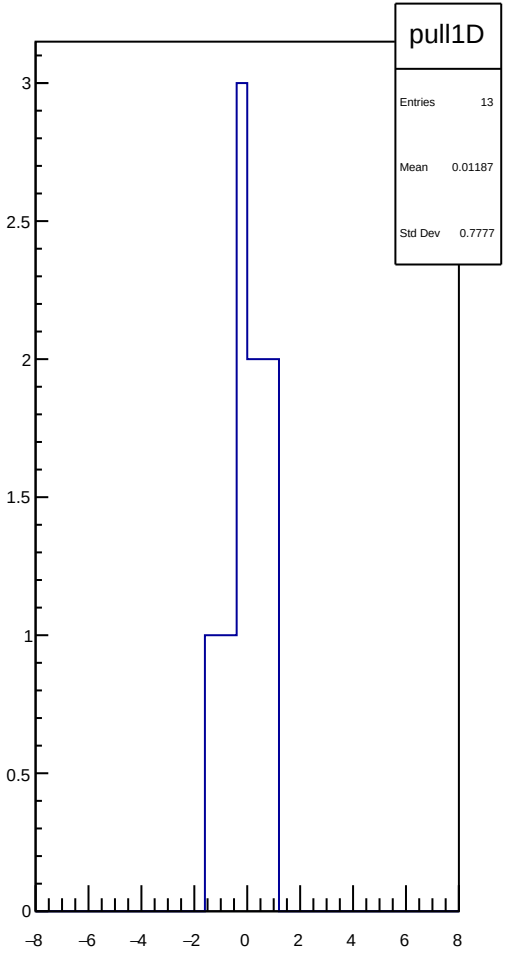
0
2
4
6
8


reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.26 / 11
p0 −28.53 ± 4.258
0
−10
−20
−30
−40
−50
−60
−70
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.01187
Std Dev 0.7777
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1.5
1
0.5
0
−8
−6
−4
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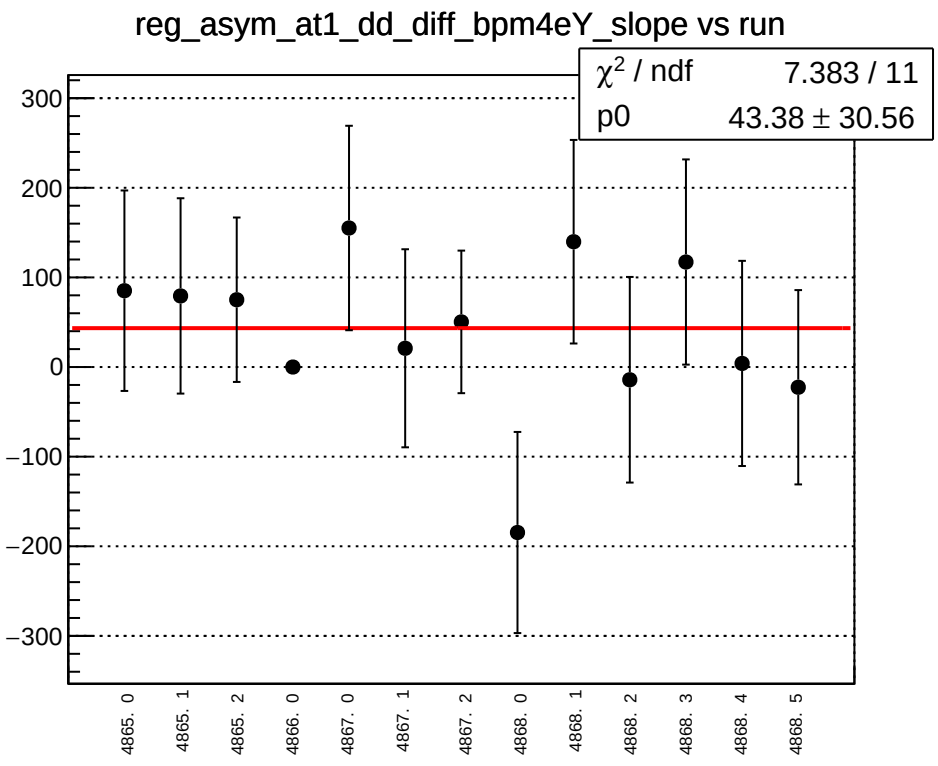
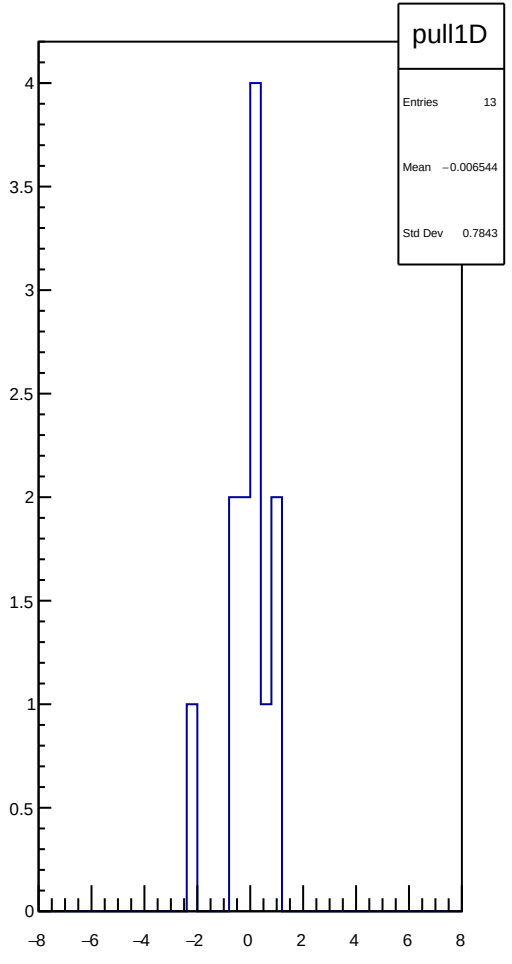
2
4
6
8


reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.383 / 11
p0 43.38 ± 30.56
300
200
100
0
−100
−200
−300
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.006544
Std Dev 0.7843
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2.5
2
1.5
1
0.5
0
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−4
−2
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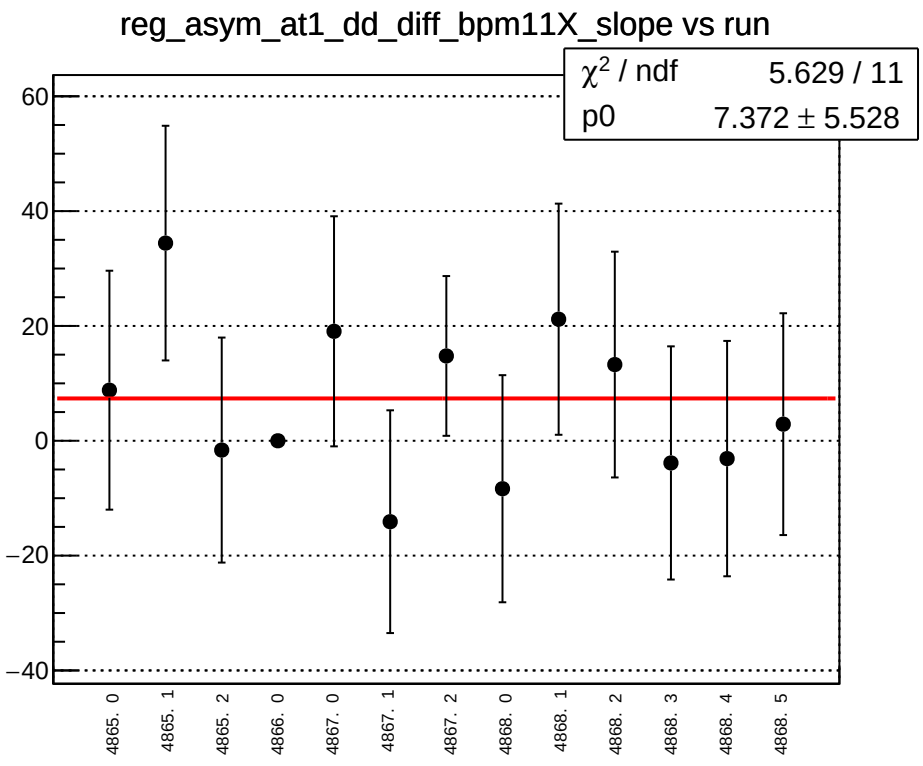
2
4
6
8


reg_asym_at1_dd_diff_bpm11X_slope vs run
χ² / ndf 5.629 / 11
p0 7.372 ± 5.528
60
40
20
0
−20
−40
4865. 0
4865. 1
4865. 2
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4867. 1
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4868. 0
4868. 1
4868. 2
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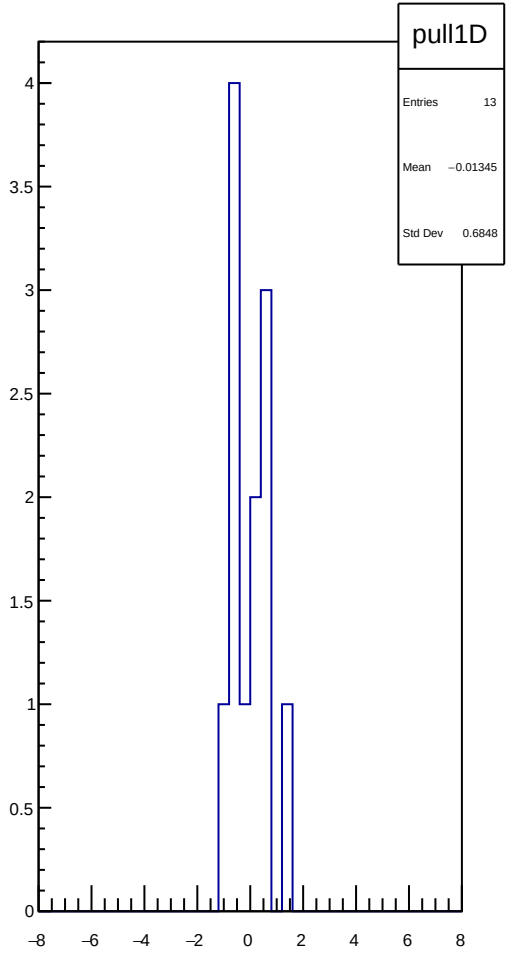
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.01345
Std Dev 0.6848
4
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2.5
2
1.5
1
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−4
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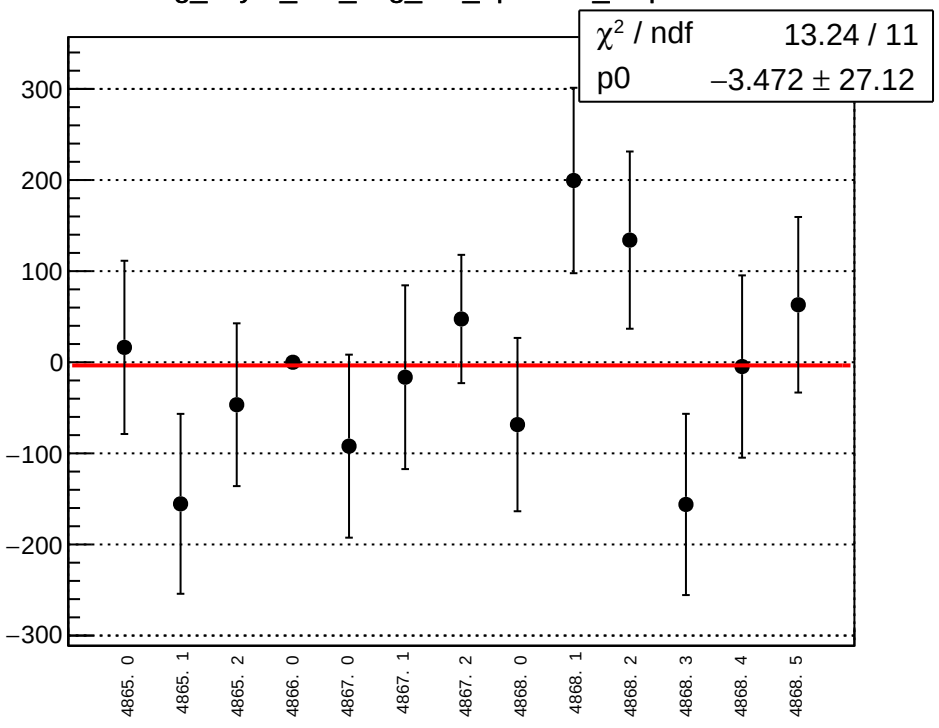
2
4
6
8


reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 13.24 / 11
p0 −3.472 ± 27.12
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200
100
0
−100
−200
−300
4865. 0
4865. 1
4865. 2
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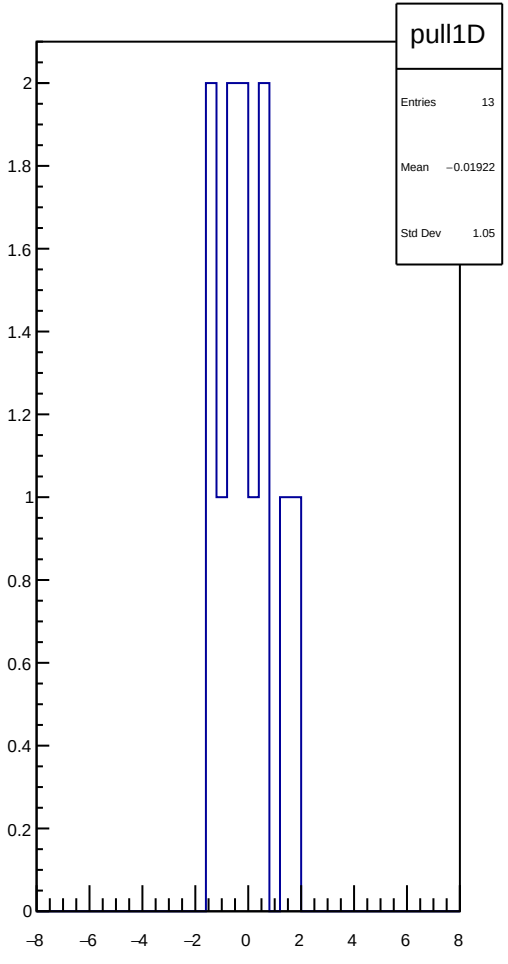
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.01922
Std Dev 1.05
2
1.8
1.6
1.4
1.2
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0.8
0.6
0.4
0.2
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−4
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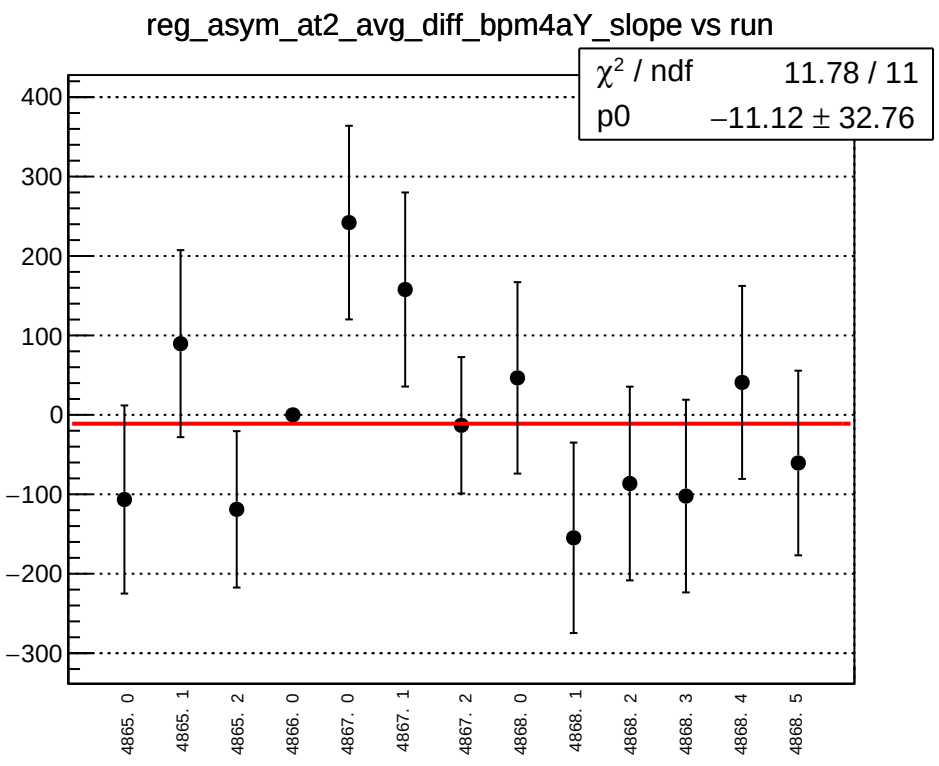
2
4
6
8


reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.78 / 11
p0 −11.12 ± 32.76
400
300
200
100
0
−100
−200
−300
4865. 0
4865. 1
4865. 2
4866. 0
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4867. 1
4867. 2
4868. 0
4868. 1
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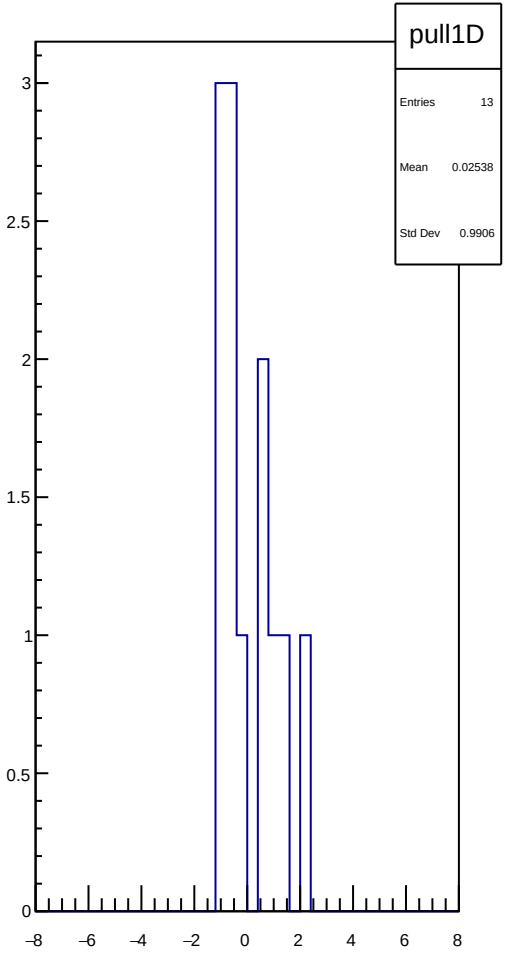
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.02538
Std Dev 0.9906
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1.5
1
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2
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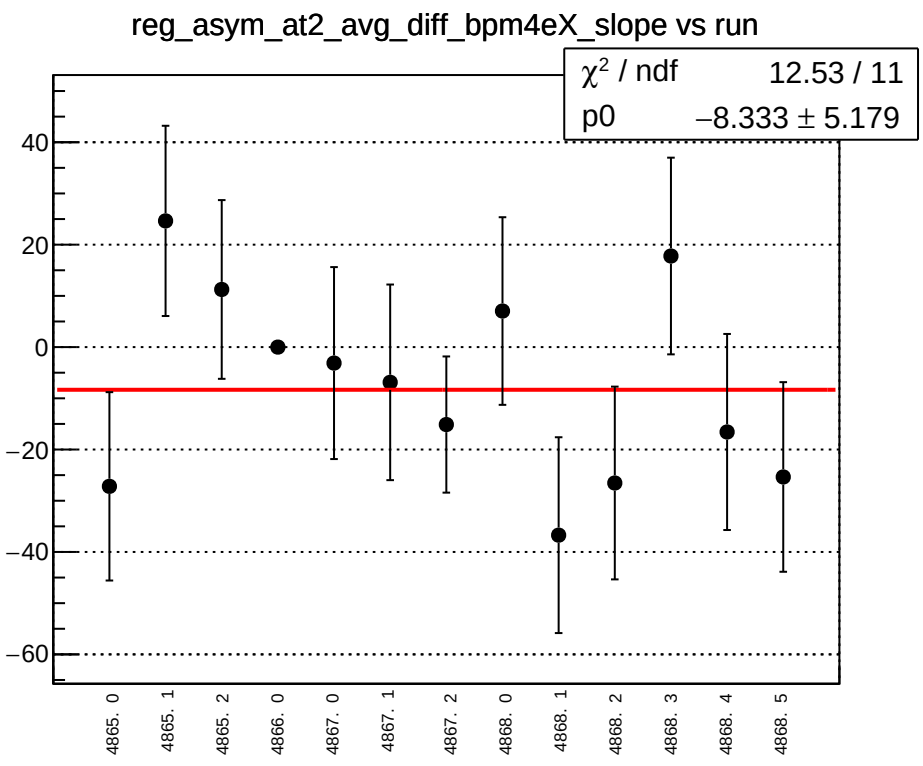
6
8


reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.53 / 11
p0 −8.333 ± 5.179
40
20
0
−20
−40
−60
4865. 0
4865. 1
4865. 2
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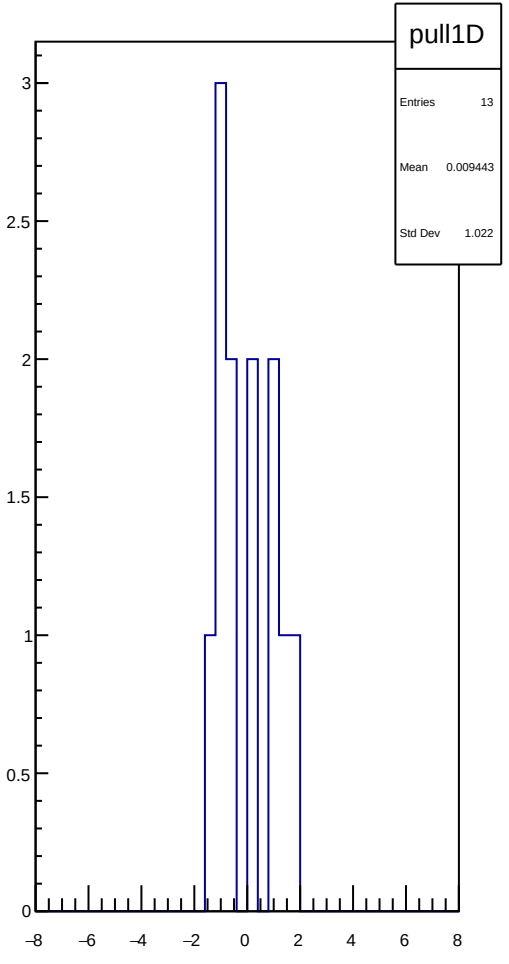
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.009443
Std Dev 1.022
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1.5
1
0.5
0
−8
−6
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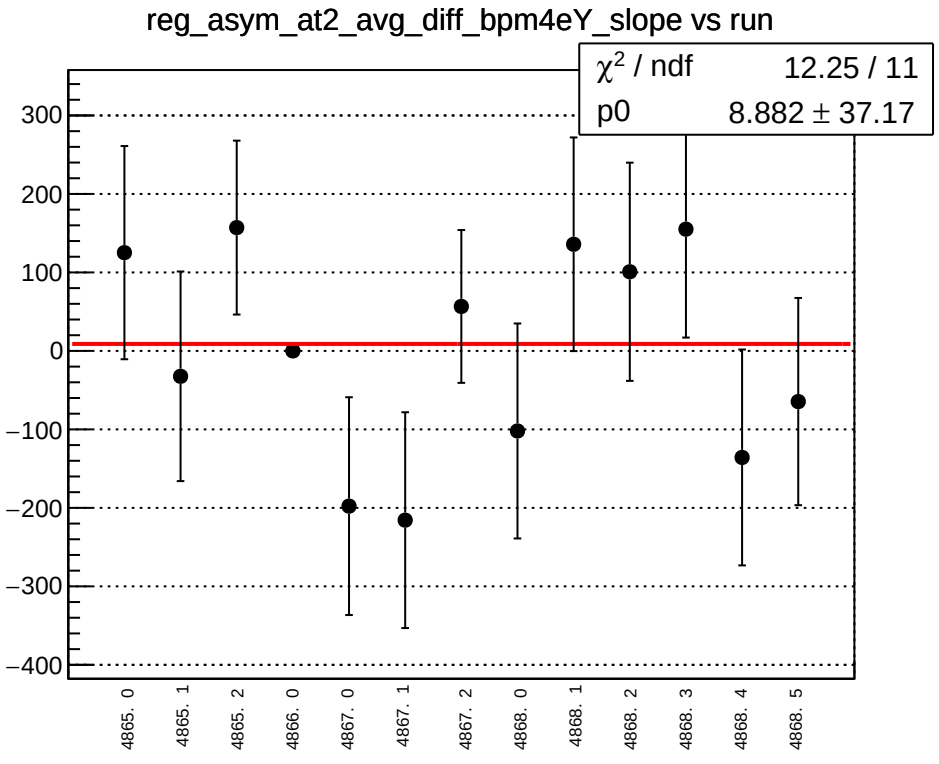
2
4
6
8


reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.25 / 11
p0 8.882 ± 37.17
300
200
100
0
−100
−200
−300
−400
4865. 0
4865. 1
4865. 2
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4867. 1
4867. 2
4868. 0
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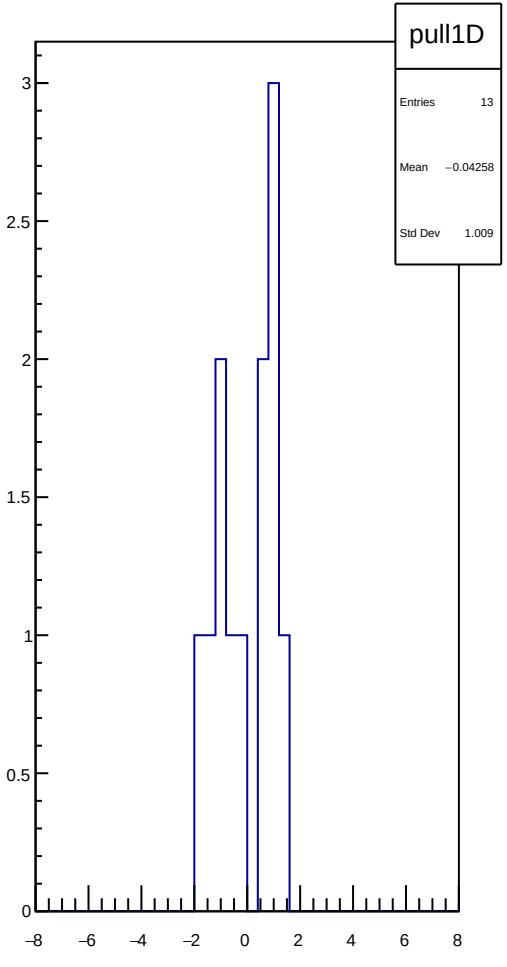
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.04258
Std Dev 1.009
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2
1.5
1
0.5
0
−8
−6
−4
−2
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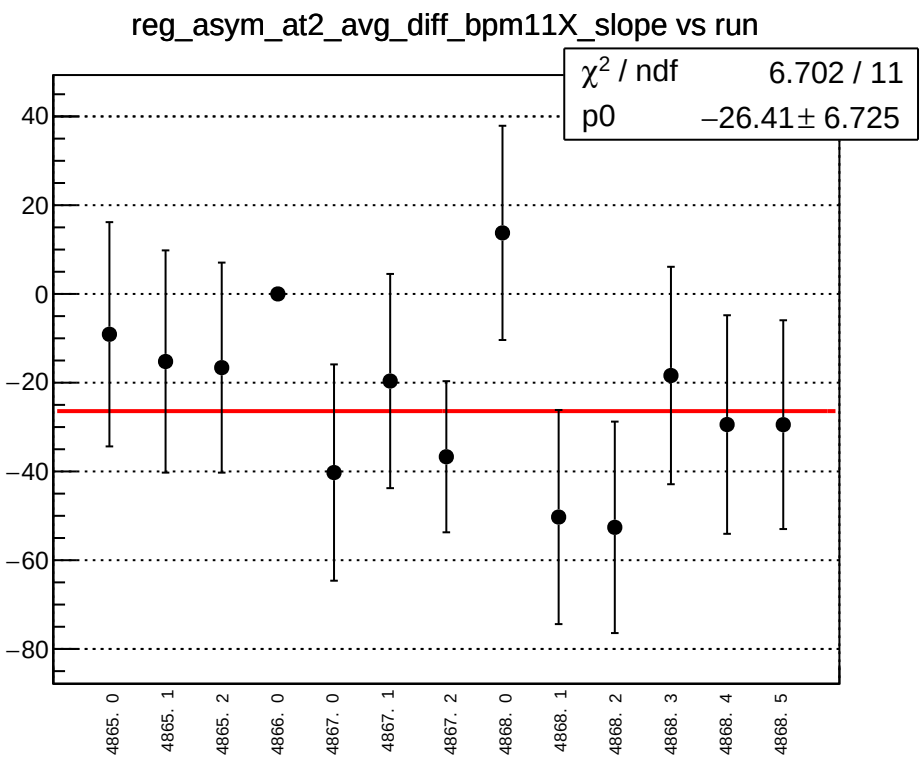
2
4
6
8


reg_asym_at2_avg_diff_bpm11X_slope vs run
χ² / ndf 6.702 / 11
p0 −26.41 ± 6.725
40
20
0
−20
−40
−60
−80
4865. 0
4865. 1
4865. 2
4866. 0
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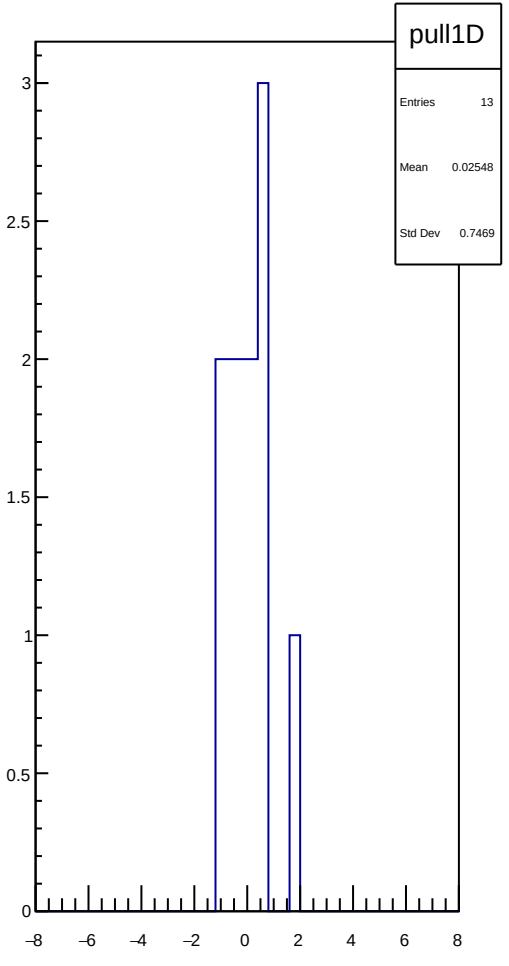
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.02548
Std Dev 0.7469
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2
1.5
1
0.5
0
−8
−6
−4
−2
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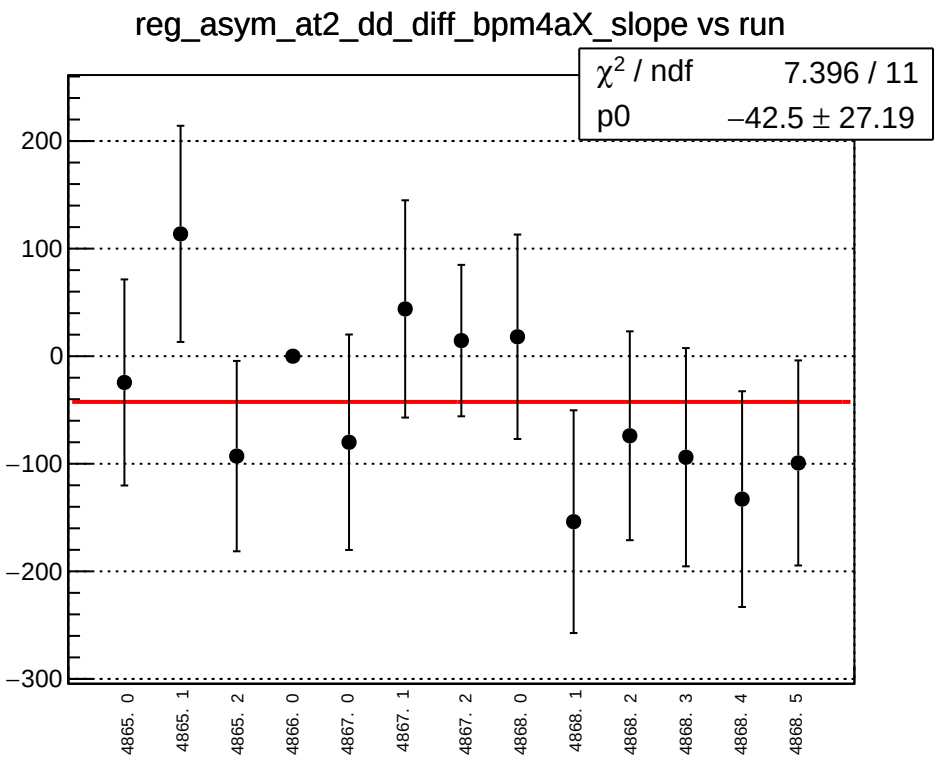
2
4
6
8


reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 7.396 / 11
p0 −42.5 ± 27.19
200
100
0
−100
−200
−300
4865. 0
4865. 1
4865. 2
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4867. 1
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4868. 0
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4868. 2
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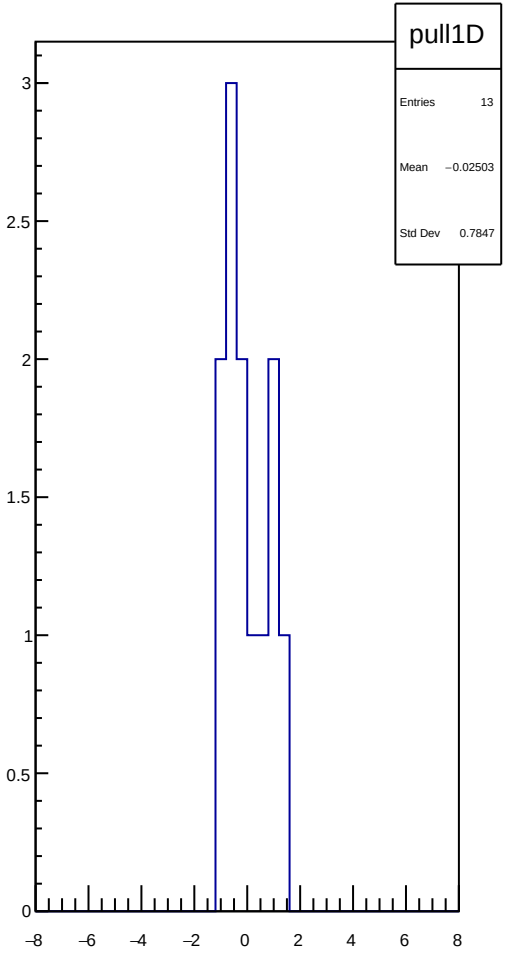
4868. 5


pull1D
Entries 13
Mean −0.02503
Std Dev 0.7847
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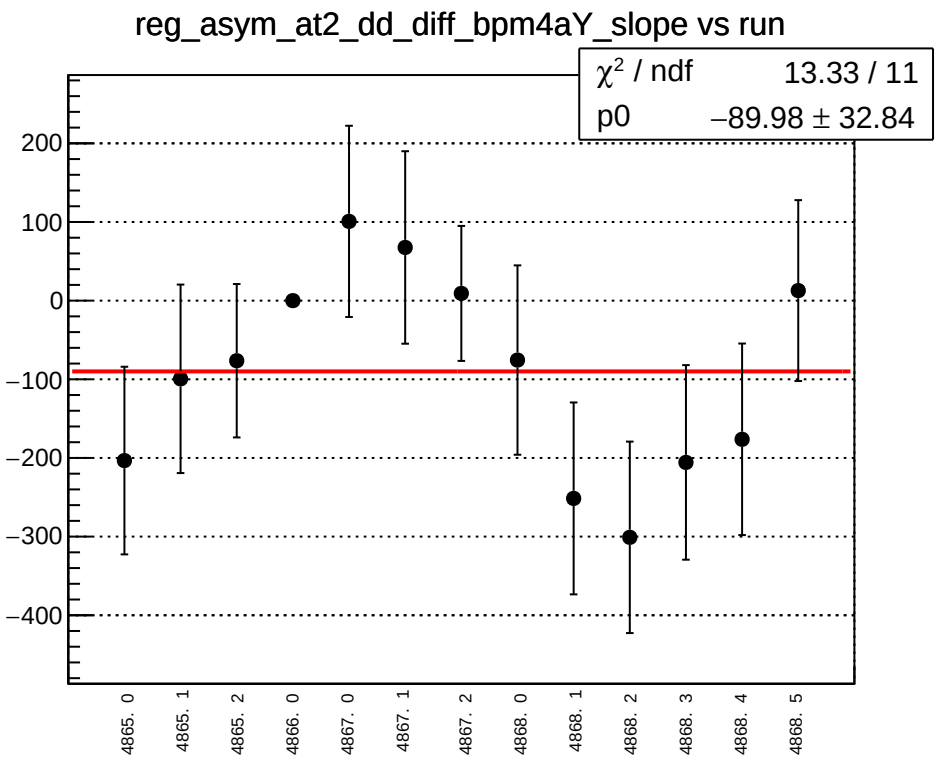
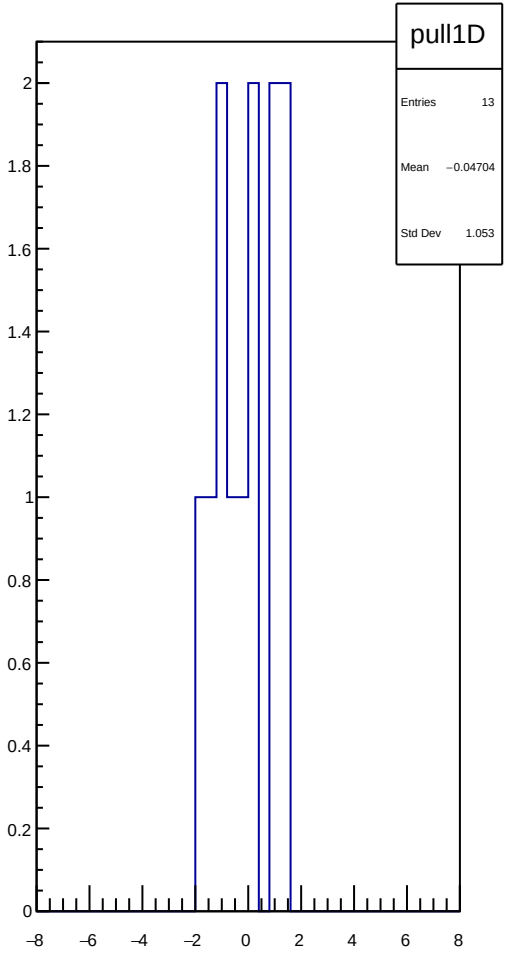
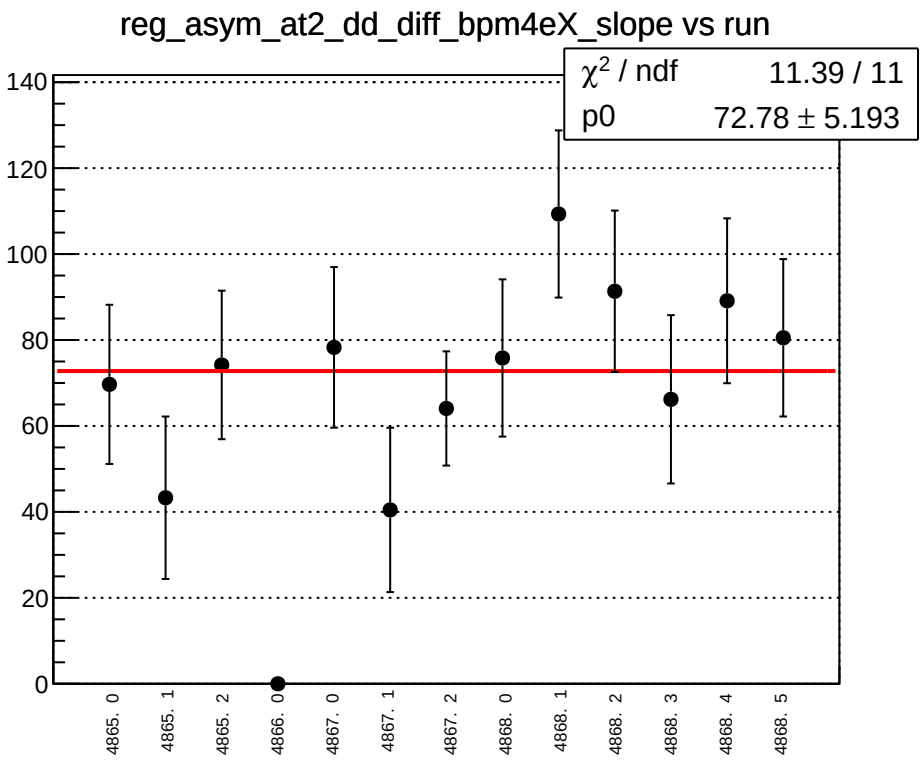
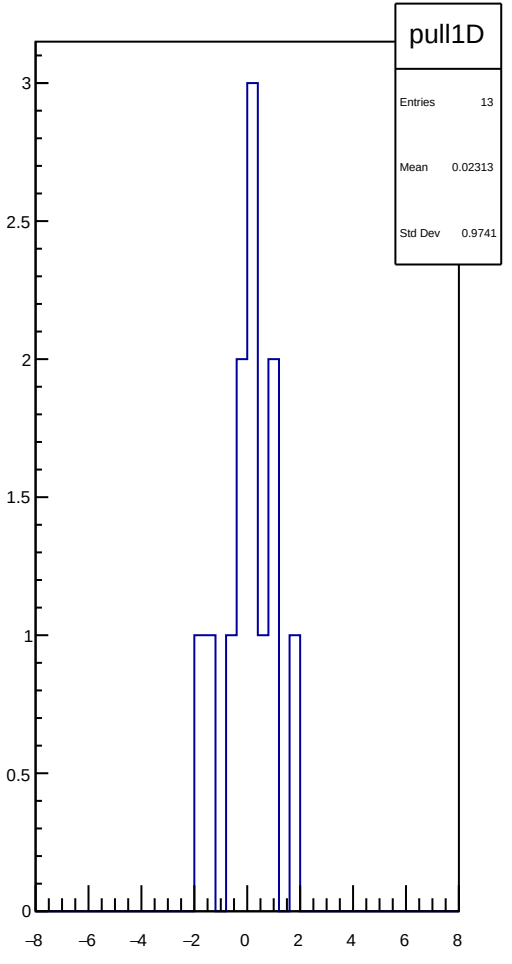
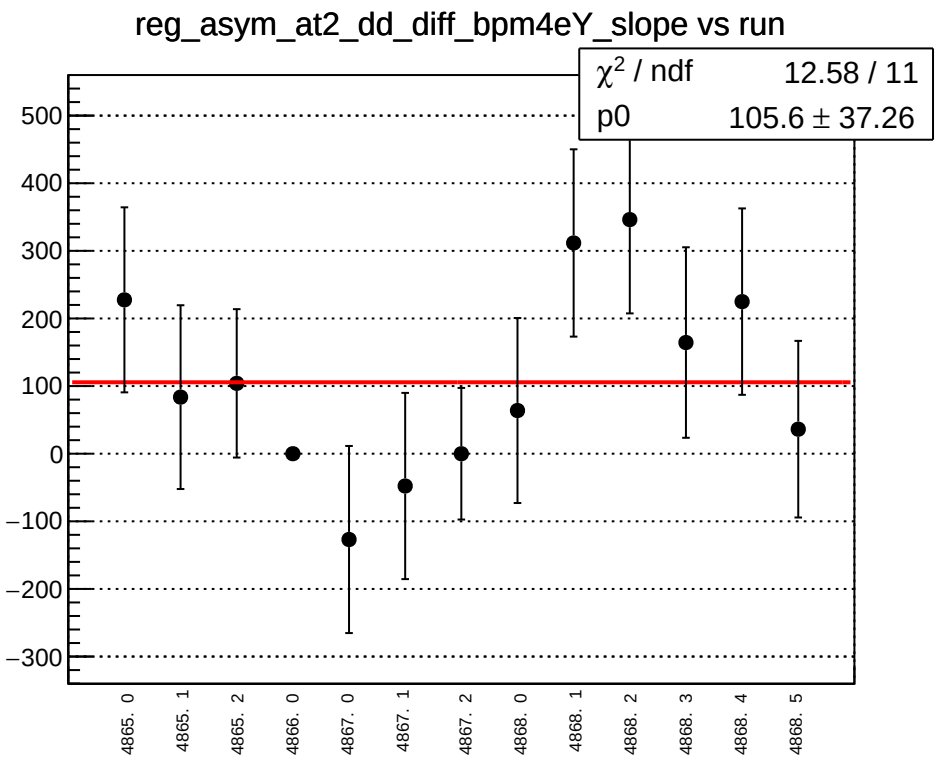
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

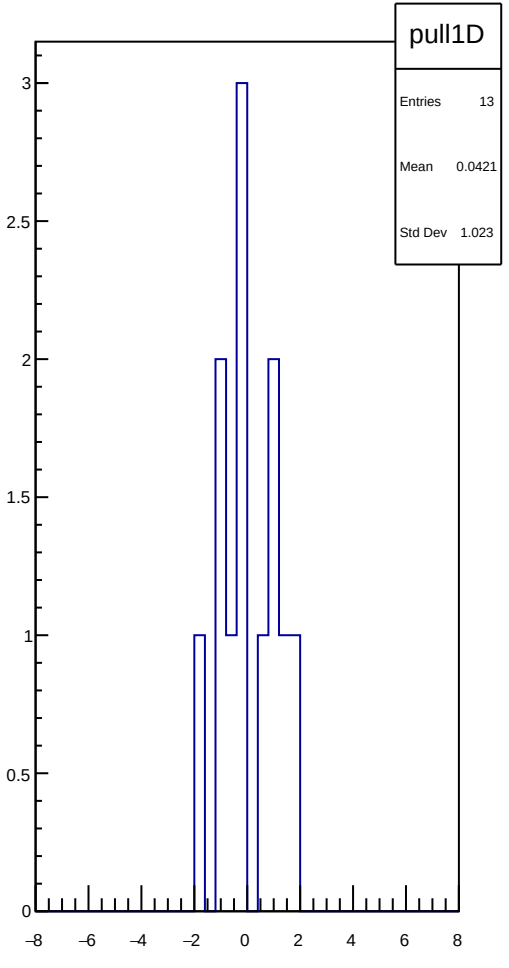

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.33 / 11
p0 −89.98 ± 32.84
200
100
0
−100
−200
−300
−400
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

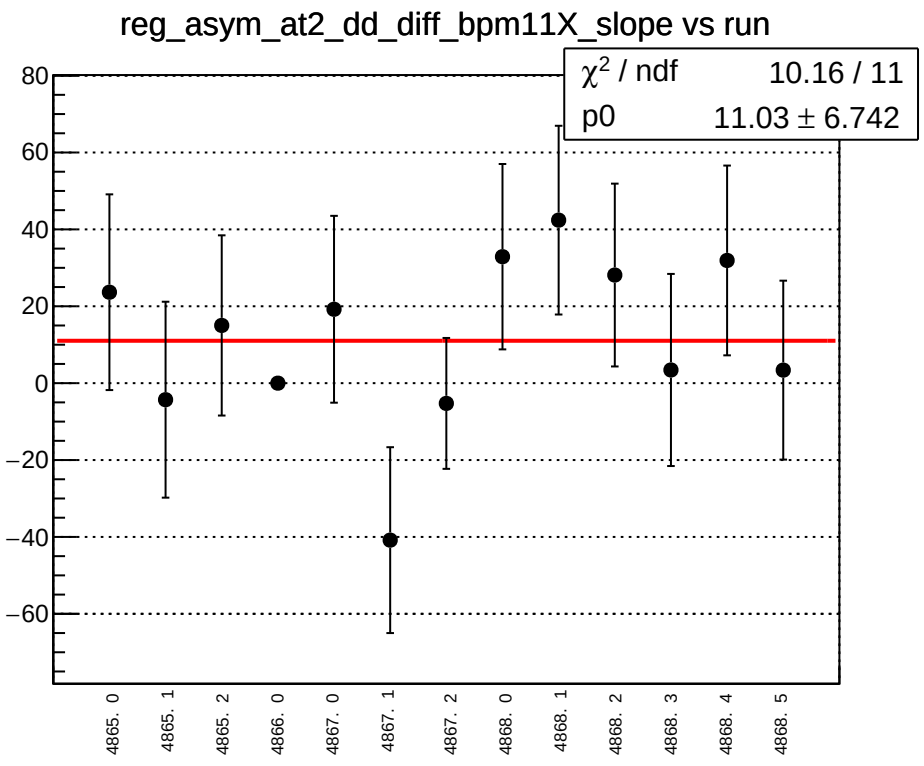

pull1D
Entries 13
Mean −0.04704
Std Dev 1.053
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

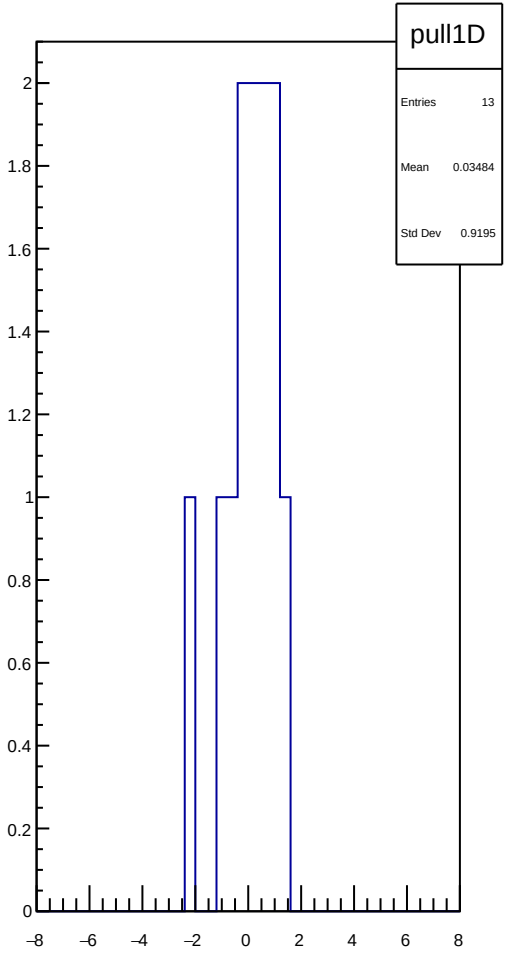

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.39 / 11
p0 72.78 ± 5.193
140
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

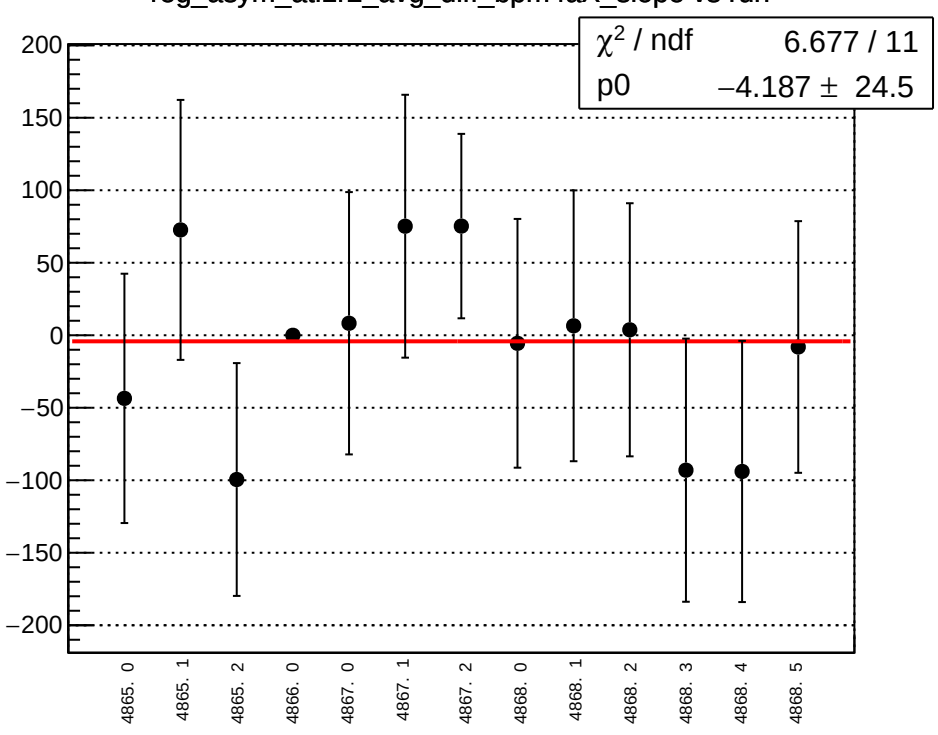

pull1D
Entries 13
Mean 0.02313
Std Dev 0.9741
3
2.5
2
1.5
1
0.5
0
–8
–6
–4
–2
0
2
4
6
8

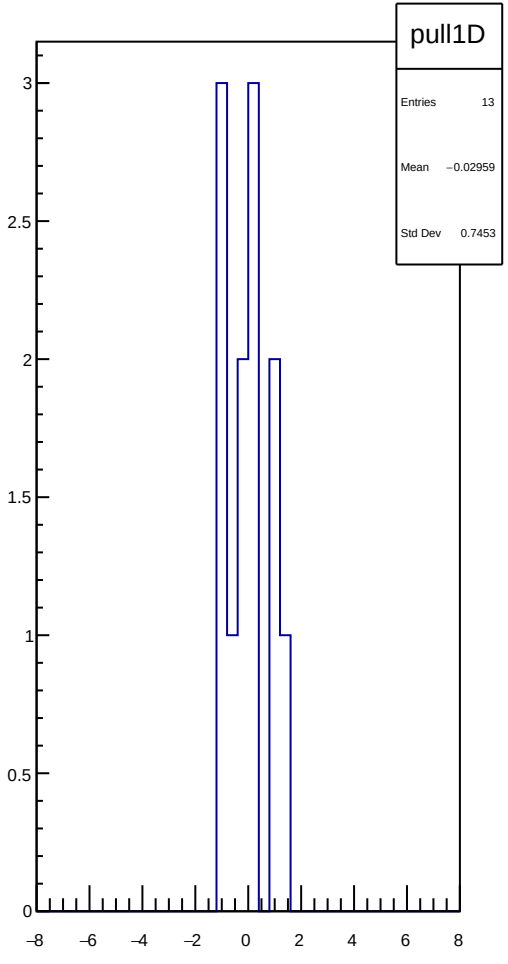

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.58 / 11
p0 105.6 ± 37.26
500
400
300
200
100
0
−100
−200
−300
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.0421
Std Dev 1.023
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at2_dd_diff_bpm11X_slope vs run
χ² / ndf 10.16 / 11
p0 11.03 ± 6.742
80
60
40
20
0
−20
−40
−60
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.03484
Std Dev 0.9195
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 6.677 / 11
p0 −4.187 ± 24.5
200
150
100
50
0
−50
−100
−150
−200
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.02959
Std Dev 0.7453
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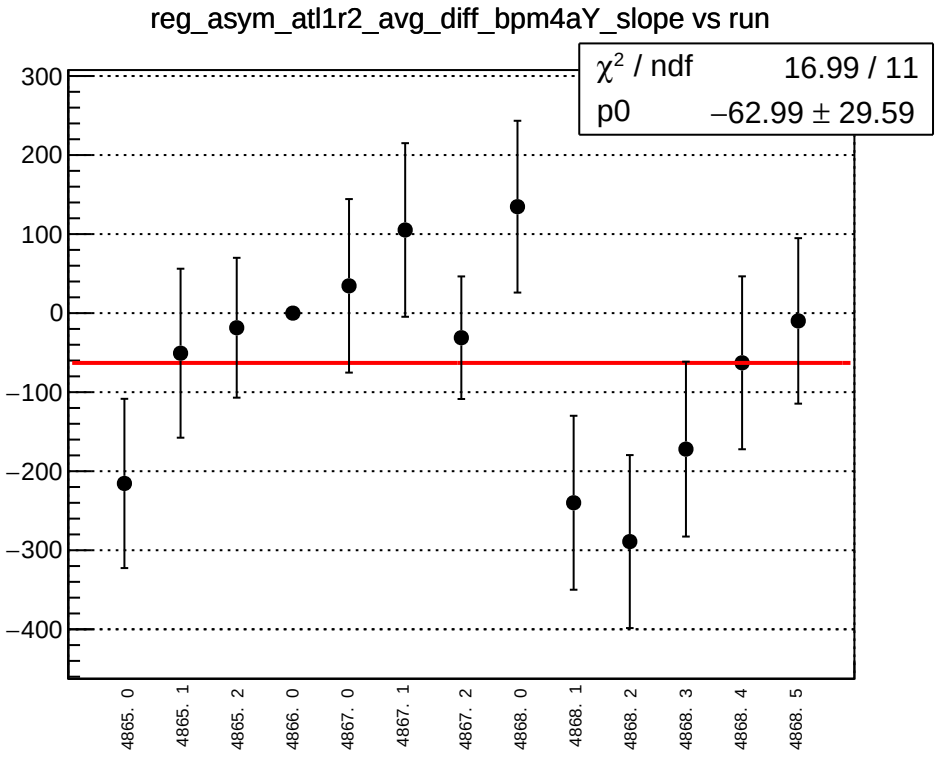
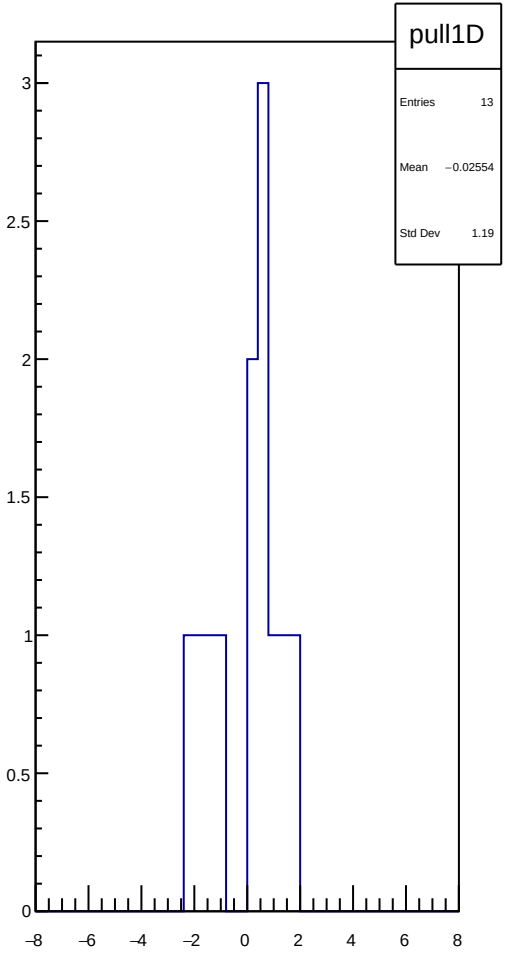
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.99 / 11
p0 −62.99 ± 29.59
300
200
100
0
−100
−200
−300
−400
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.02554
Std Dev 1.19
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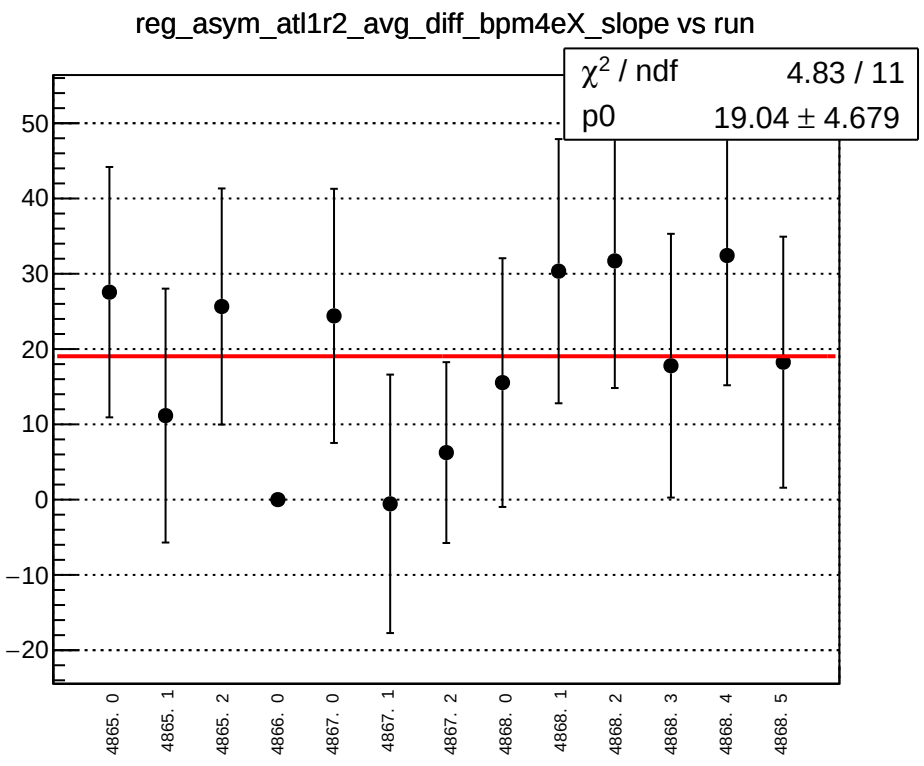
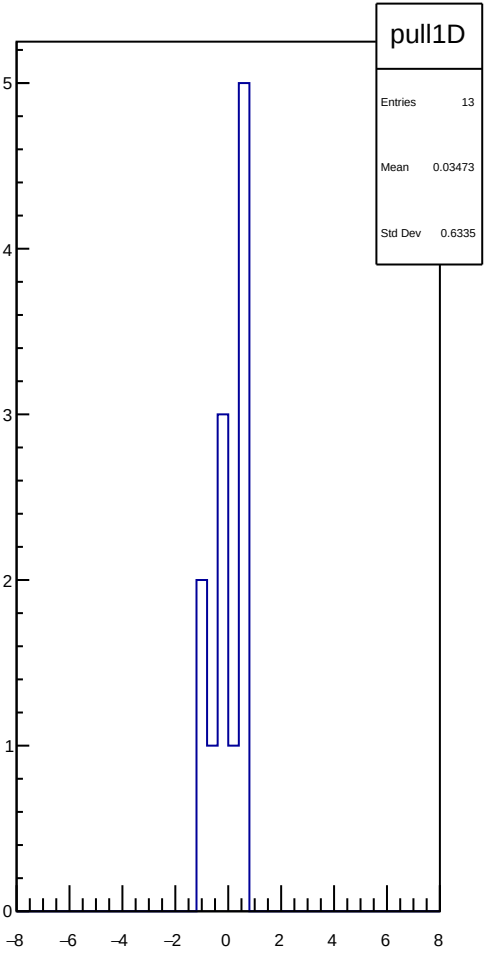
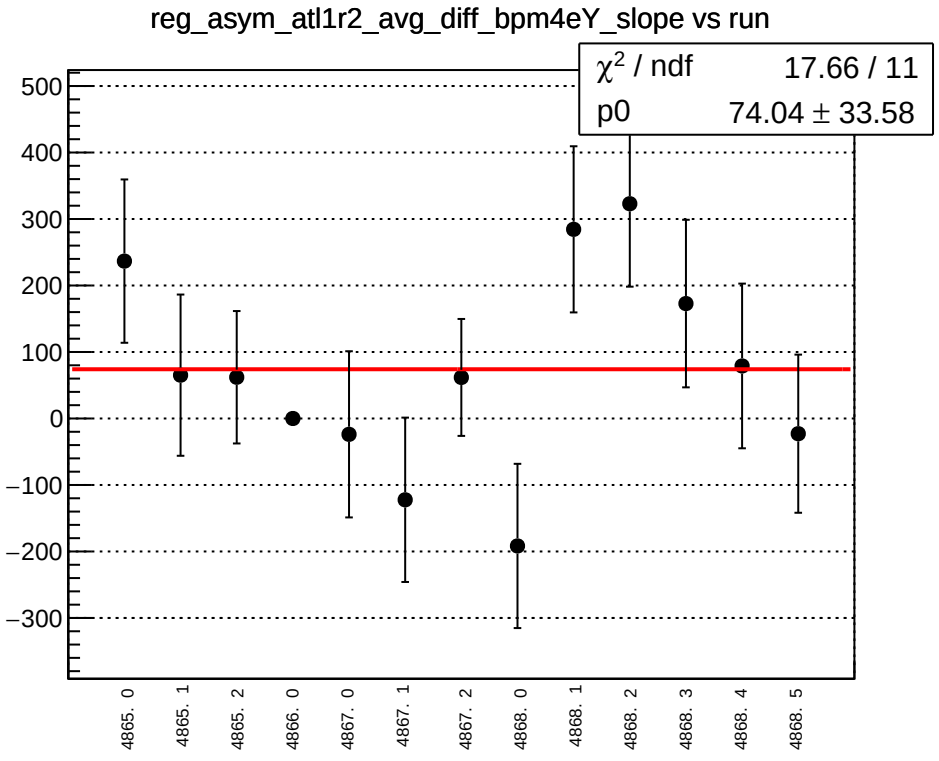
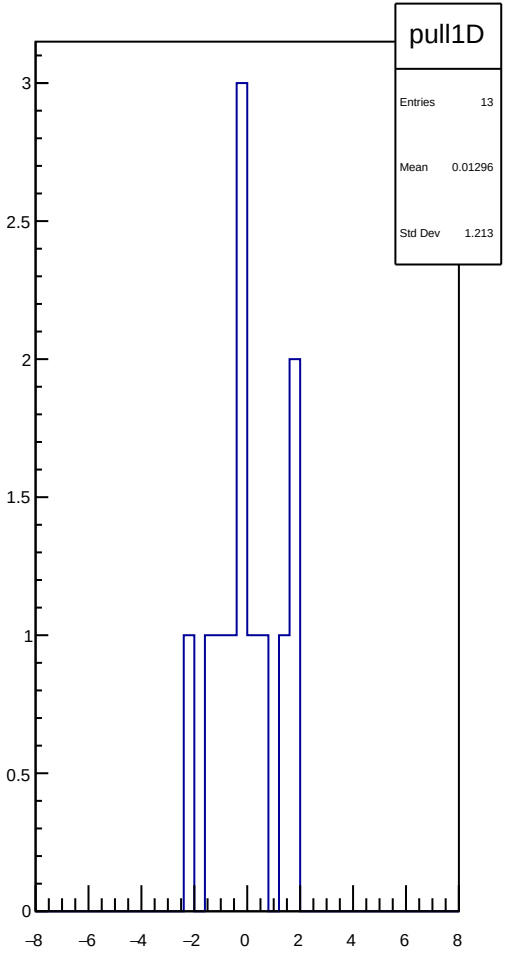
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.83 / 11
p0 19.04 ± 4.679
50
40
30
20
10
0
−10
−20
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.03473
Std Dev 0.6335
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.66 / 11
p0 74.04 ± 33.58
500
400
300
200
100
0
−100
−200
−300
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.01296
Std Dev 1.213
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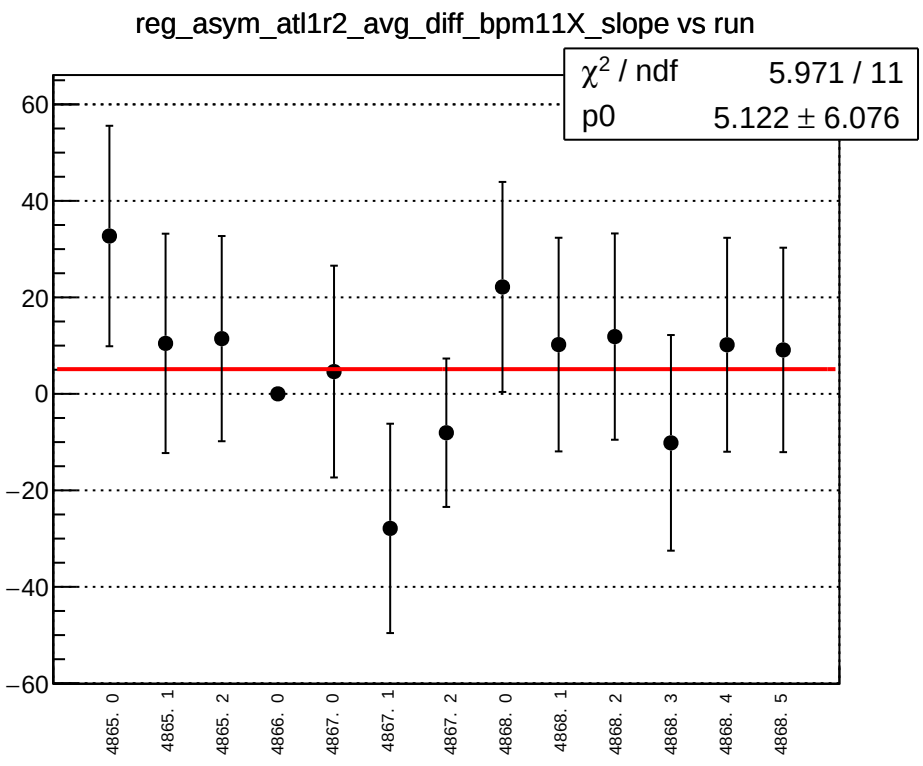
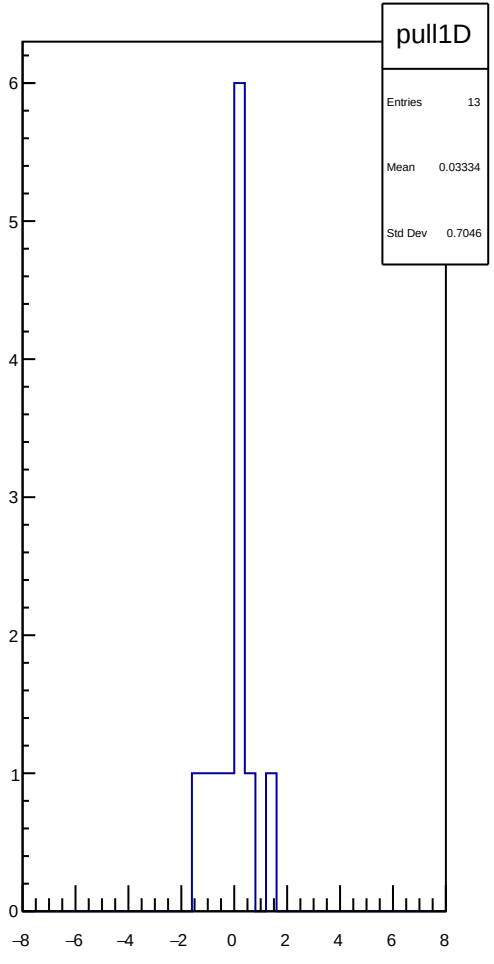
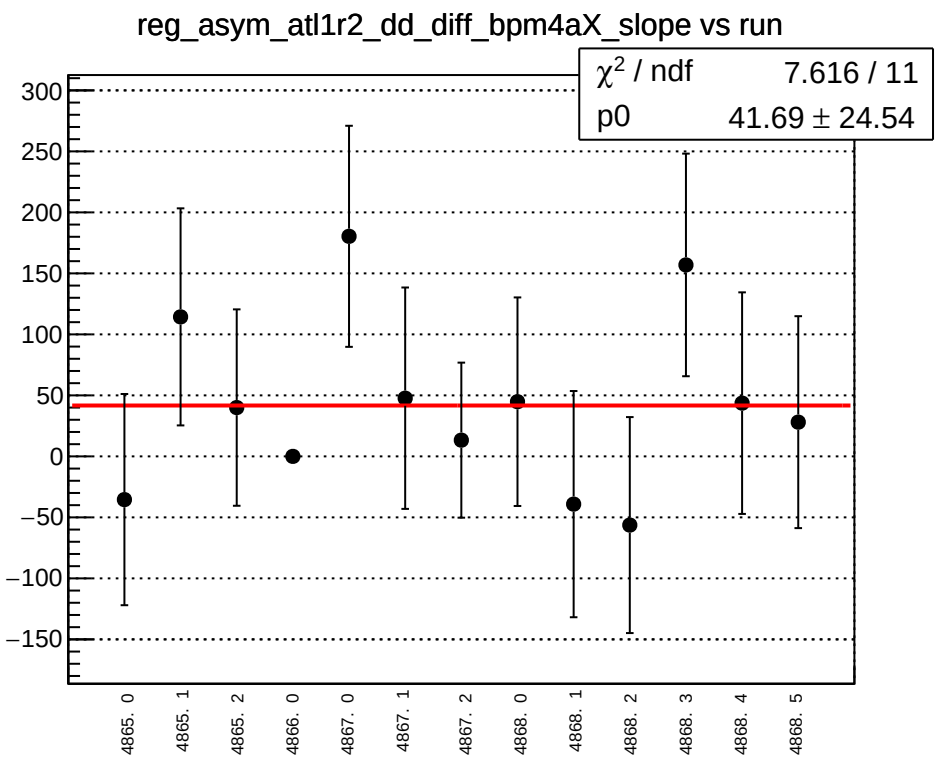
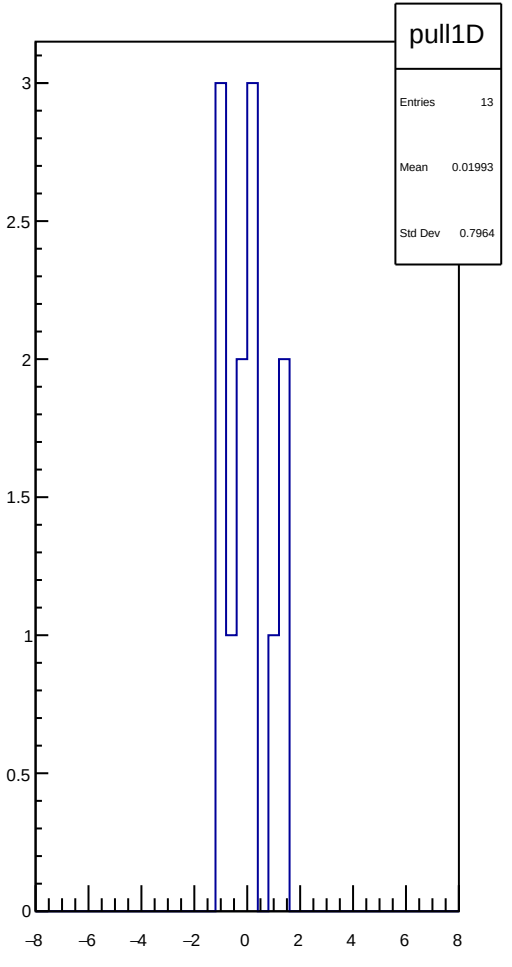
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_avg_diff_bpm11X_slope vs run
χ² / ndf 5.971 / 11
p0 5.122 ± 6.076
60
40
20
0
−20
−40
−60
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.03334
Std Dev 0.7046
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 7.616 / 11
p0 41.69 ± 24.54
300
250
200
150
100
50
0
−50
−100
−150
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.01993
Std Dev 0.7964
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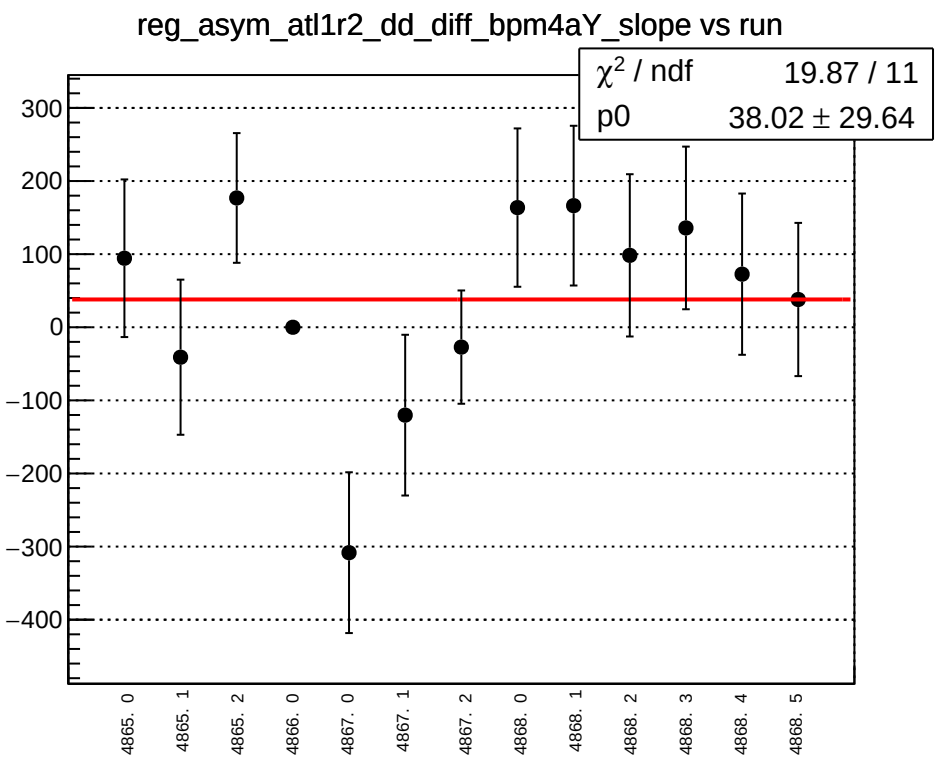
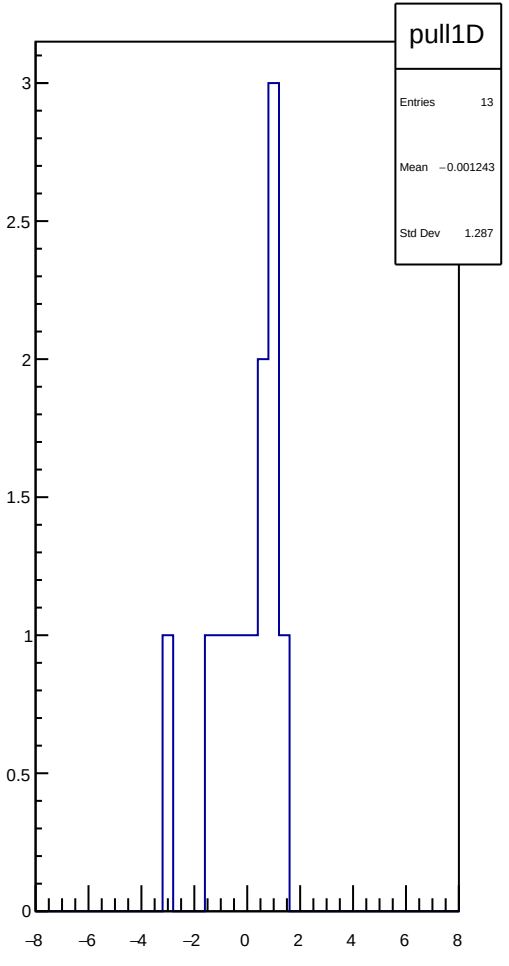
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.87 / 11
p0 38.02 ± 29.64
300
200
100
0
−100
−200
−300
−400
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.001243
Std Dev 1.287
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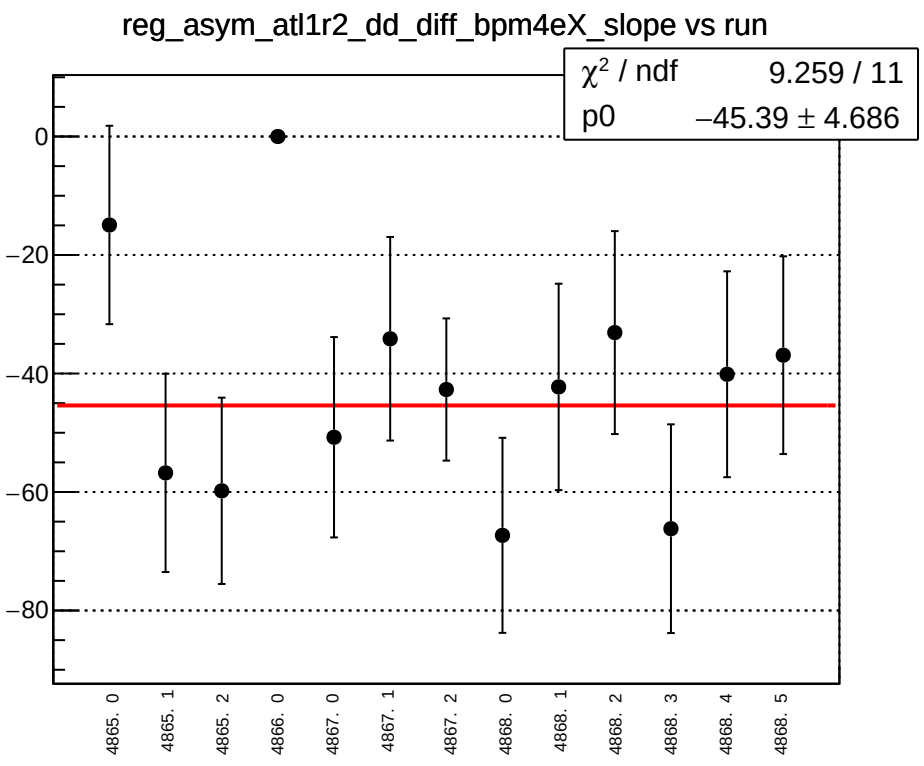
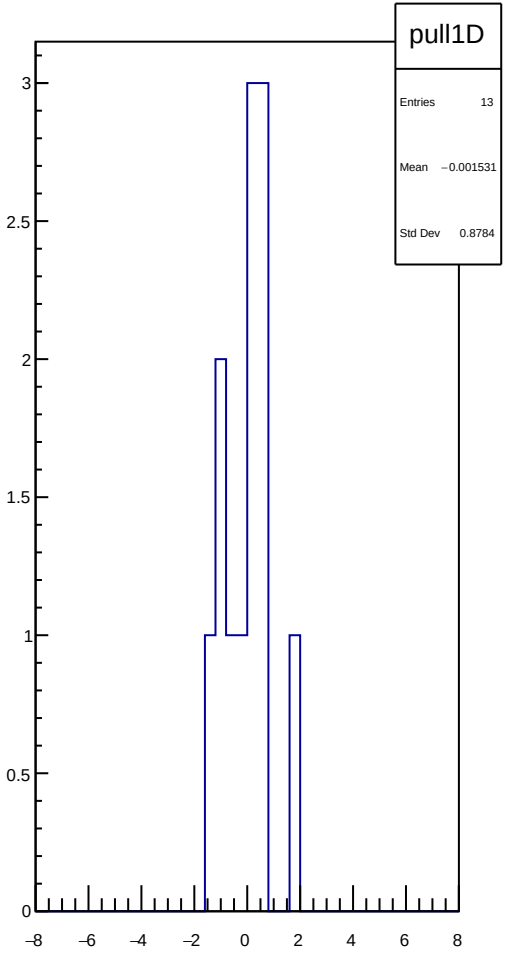
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.259 / 11
p0 −45.39 ± 4.686
0
−20
−40
−60
−80
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.001531
Std Dev 0.8784
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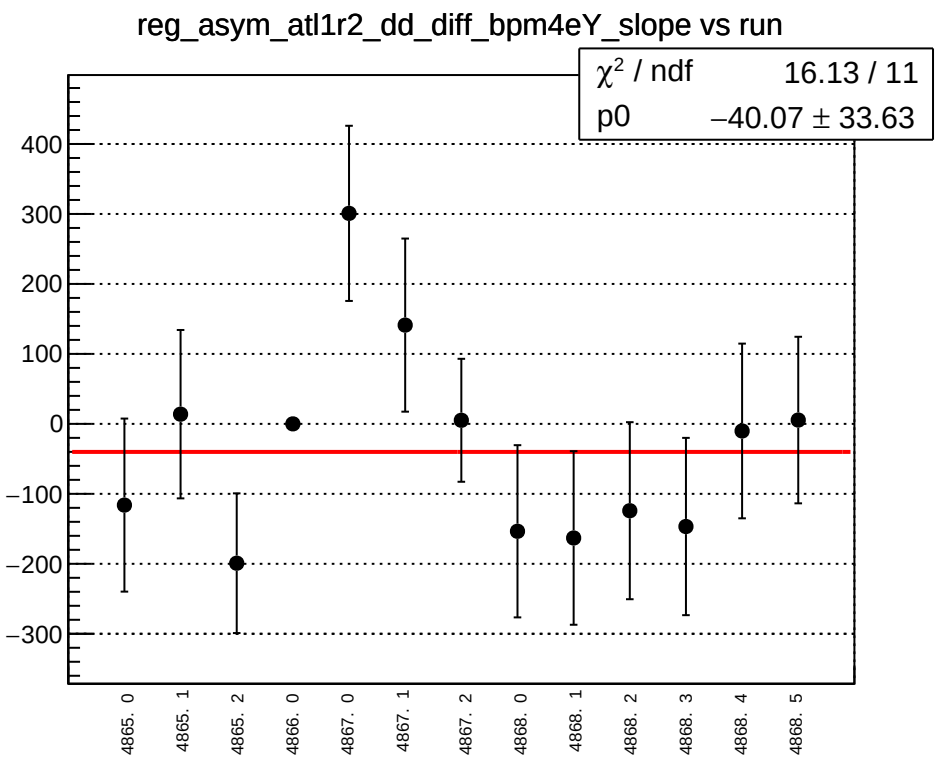
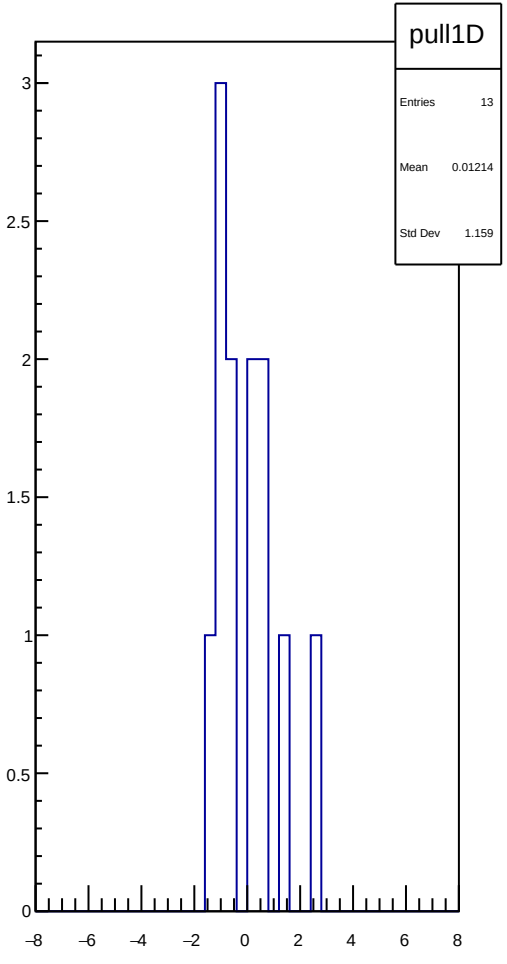
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.13 / 11
p0 −40.07 ± 33.63
400
300
200
100
0
−100
−200
−300
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.01214
Std Dev 1.159
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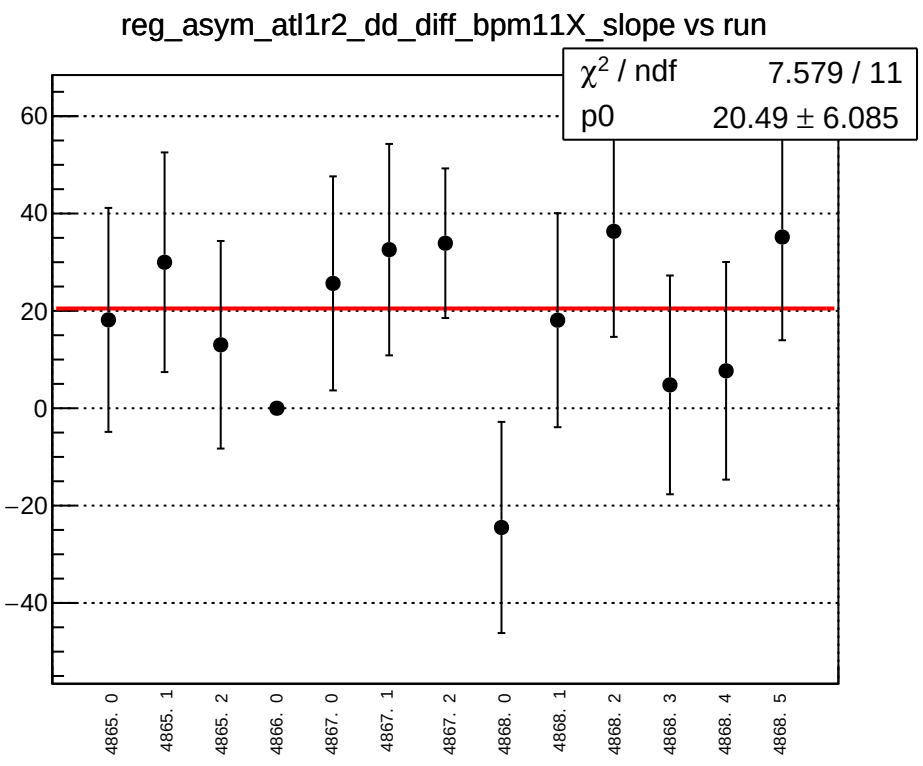
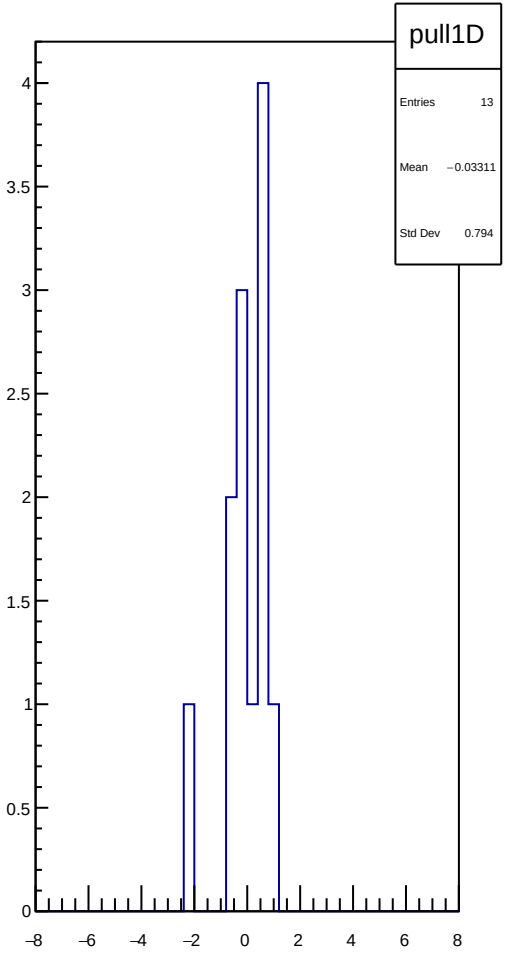
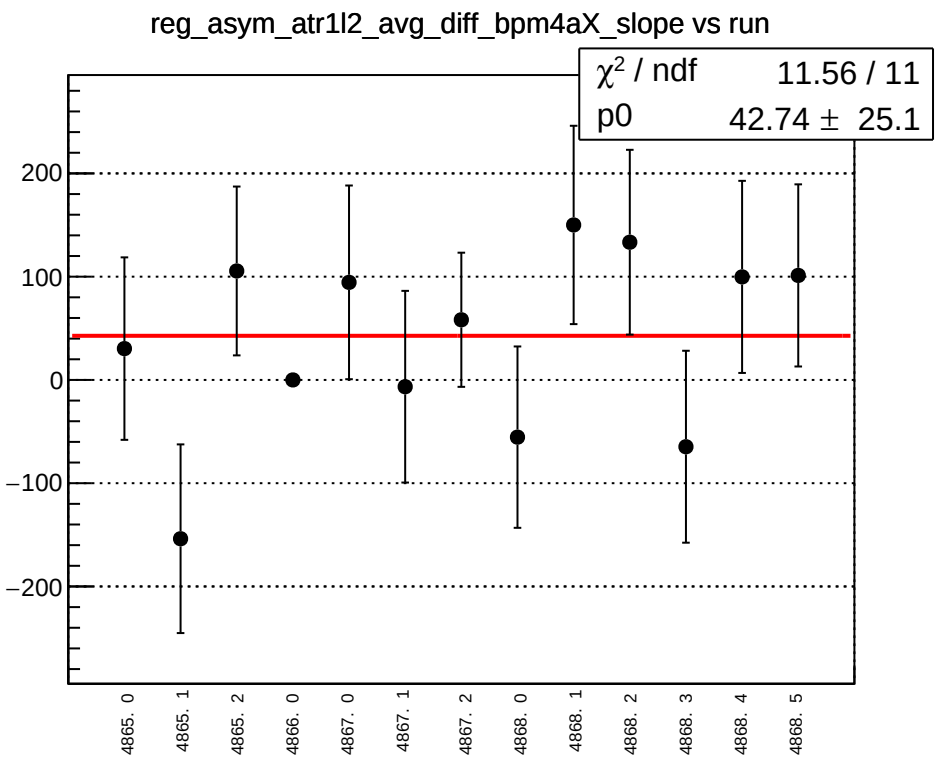
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_dd_diff_bpm11X_slope vs run
χ² / ndf 7.579 / 11
p0 20.49 ± 6.085
60
40
20
0
−20
−40
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.03311
Std Dev 0.794
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 11.56 / 11
p0 42.74 ± 25.1
200
100
0
−100
−200
4865. 0
4865. 1
4865. 2
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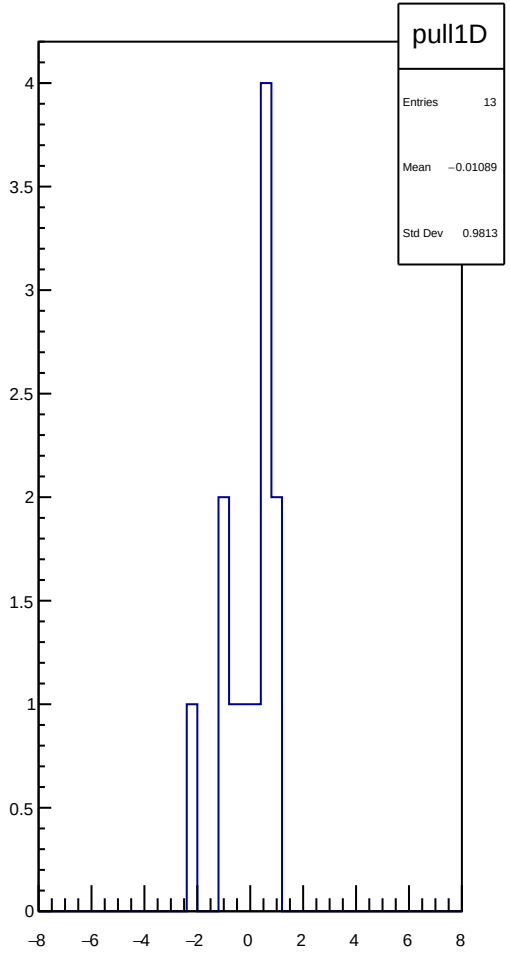
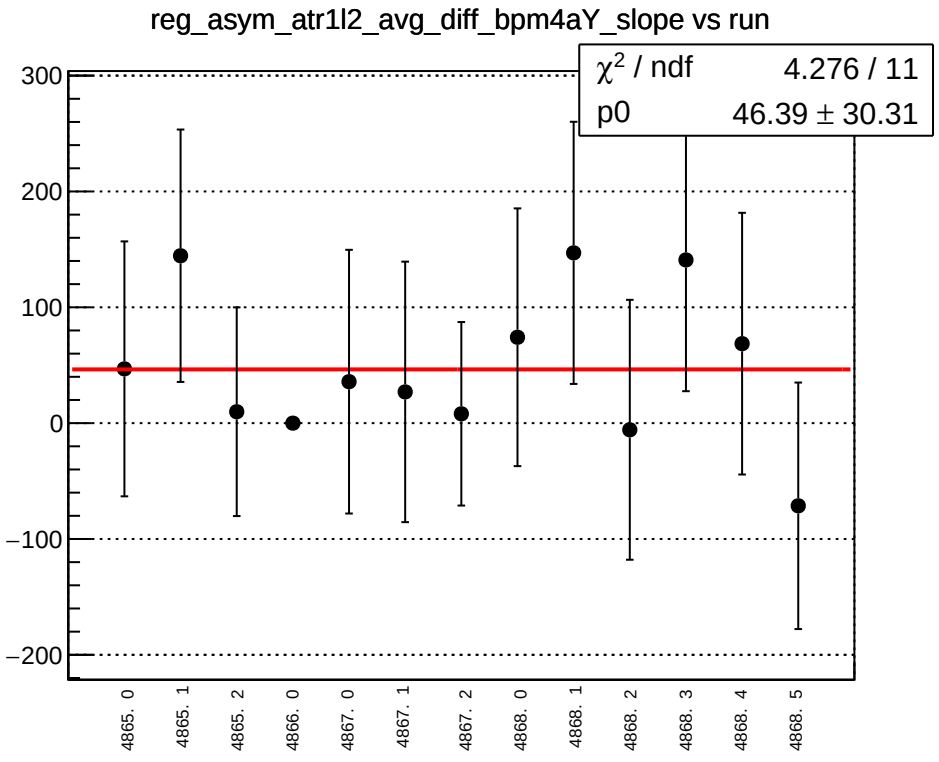
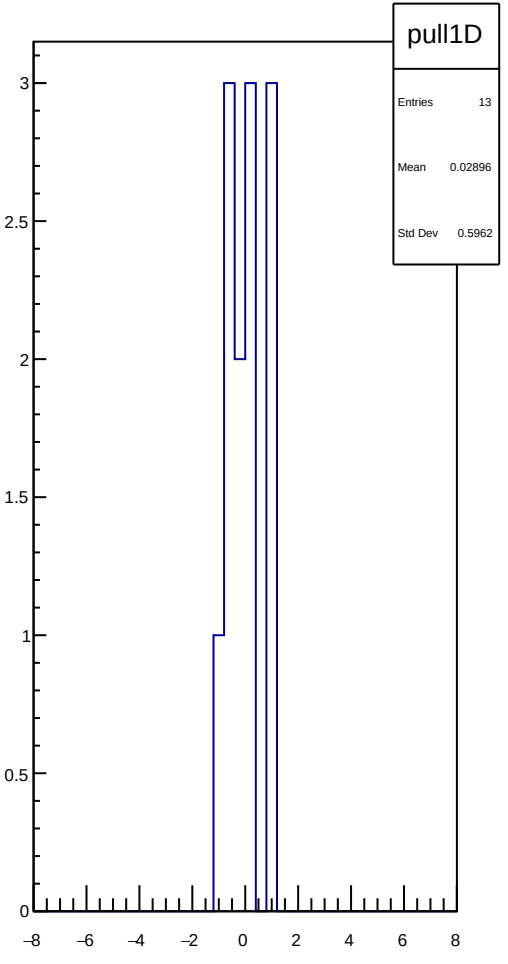
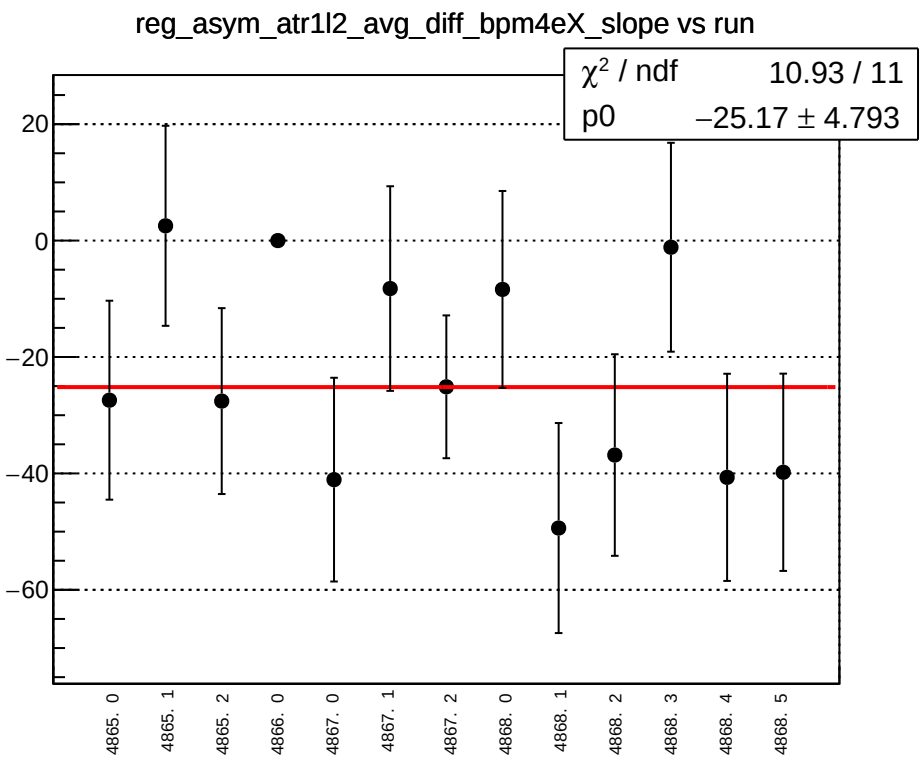
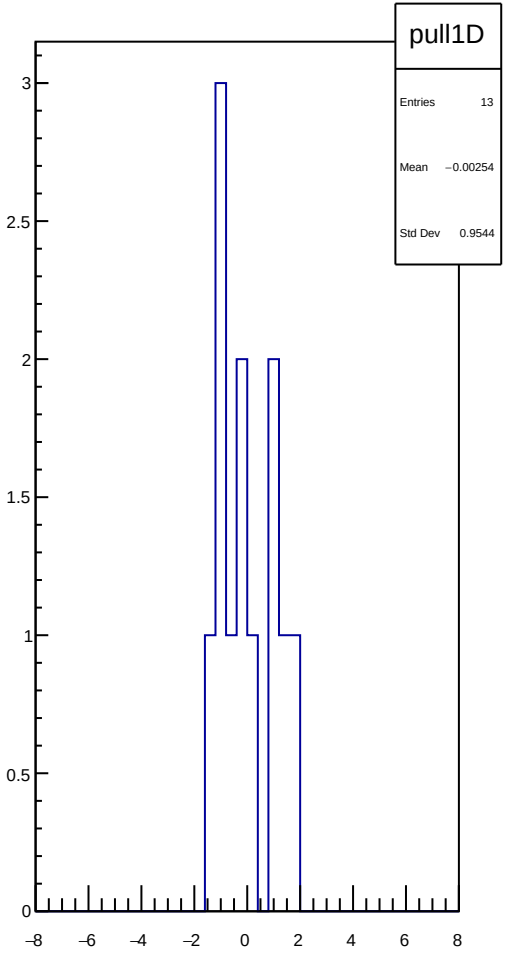
4868. 4
4868. 5

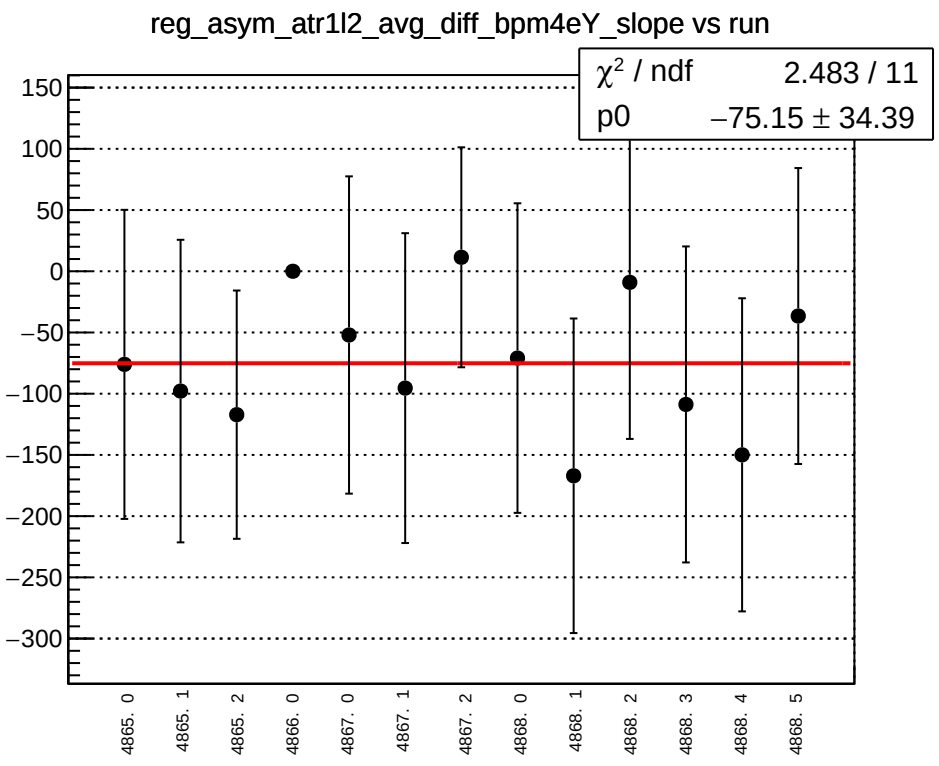

pull1D
Entries 13
Mean −0.01089
Std Dev 0.9813
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

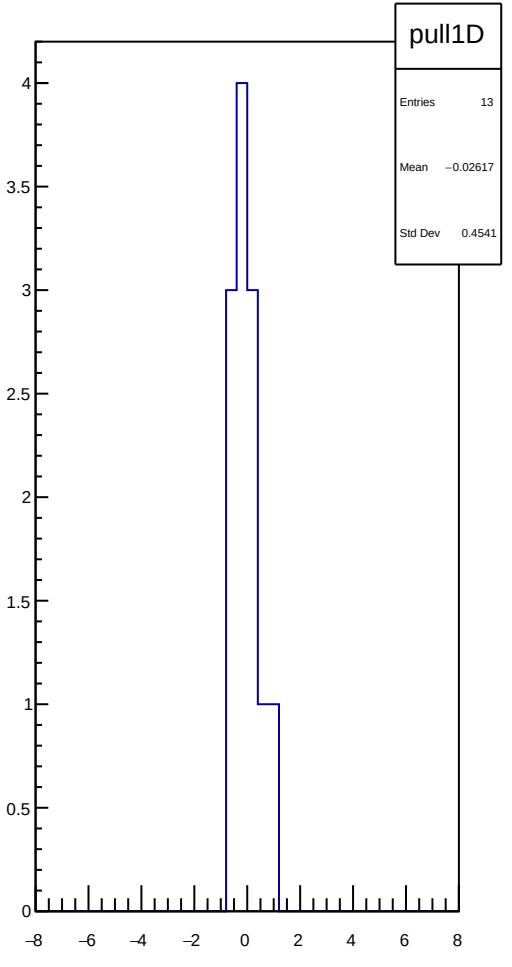

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.276 / 11
p0 46.39 ± 30.31
300
200
100
0
−100
−200
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

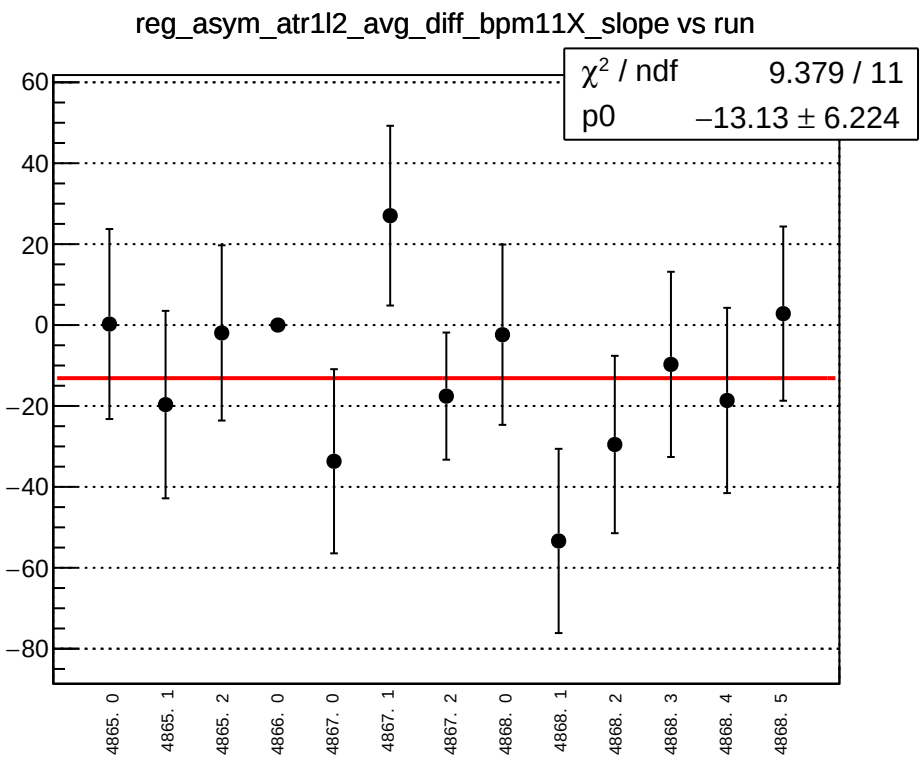

pull1D
Entries 13
Mean 0.02896
Std Dev 0.5962
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

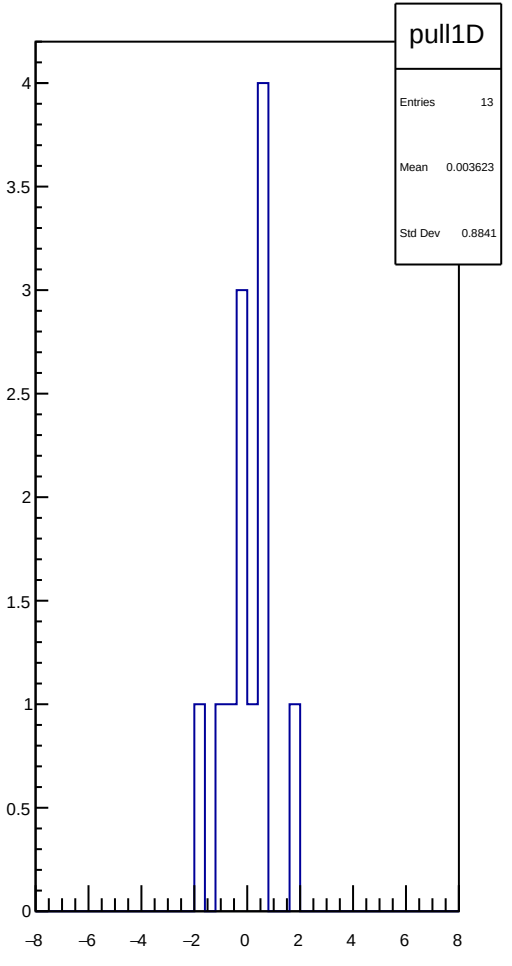

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.93 / 11
p0 −25.17 ± 4.793
20
0
−20
−40
−60
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

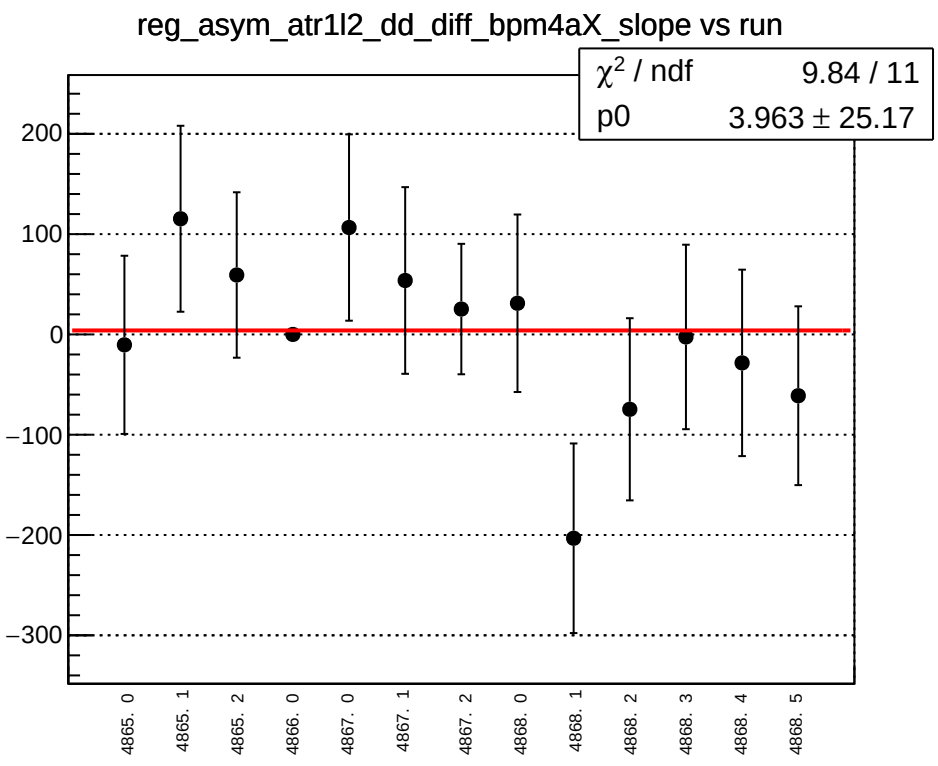

pull1D
Entries 13
Mean −0.00254
Std Dev 0.9544
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

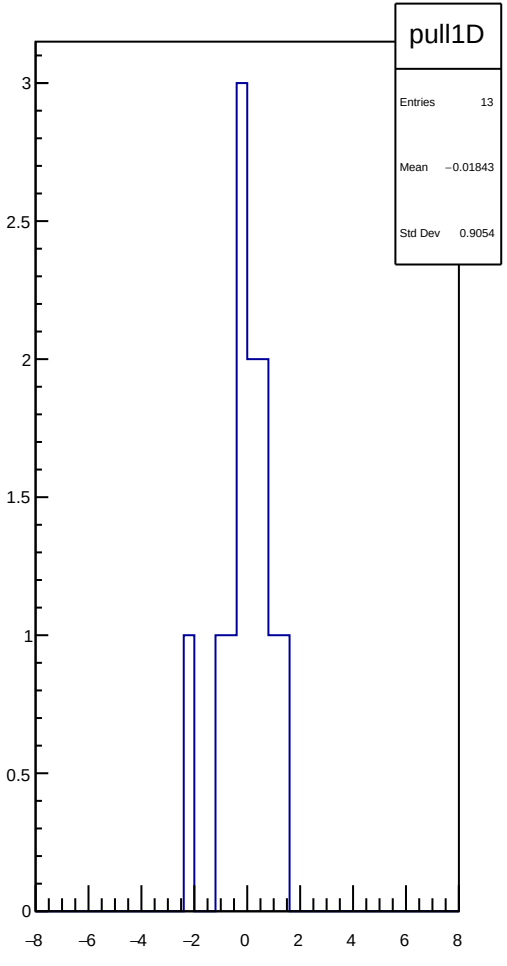

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.483 / 11
p0 −75.15 ± 34.39
150
100
50
0
−50
−100
−150
−200
−250
−300
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

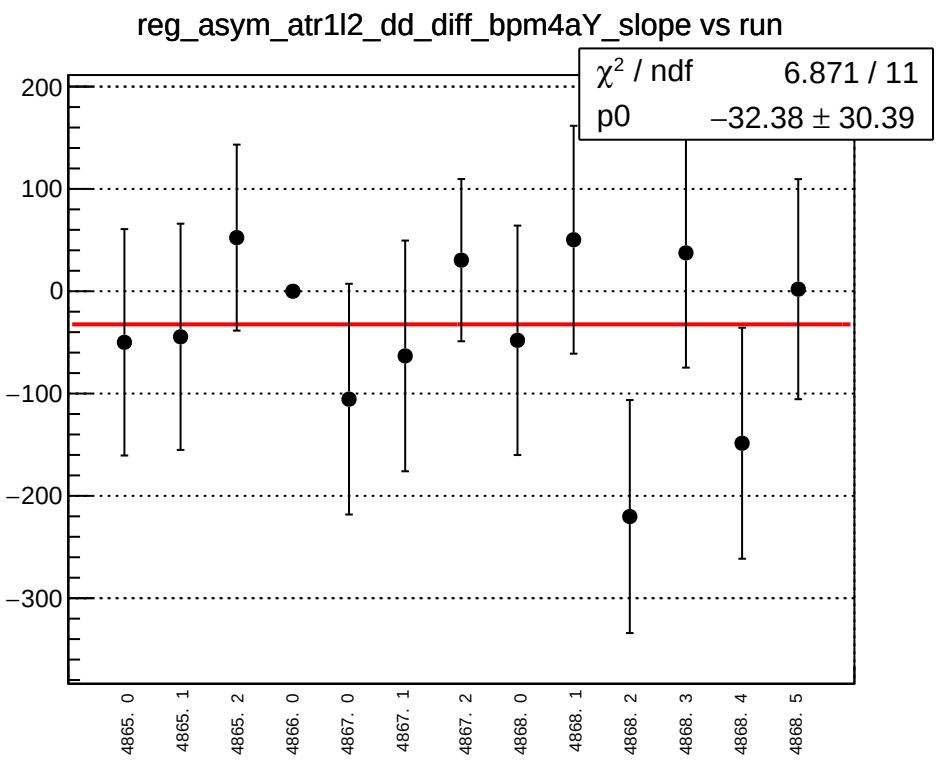

pull1D
Entries 13
Mean −0.02617
Std Dev 0.4541
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

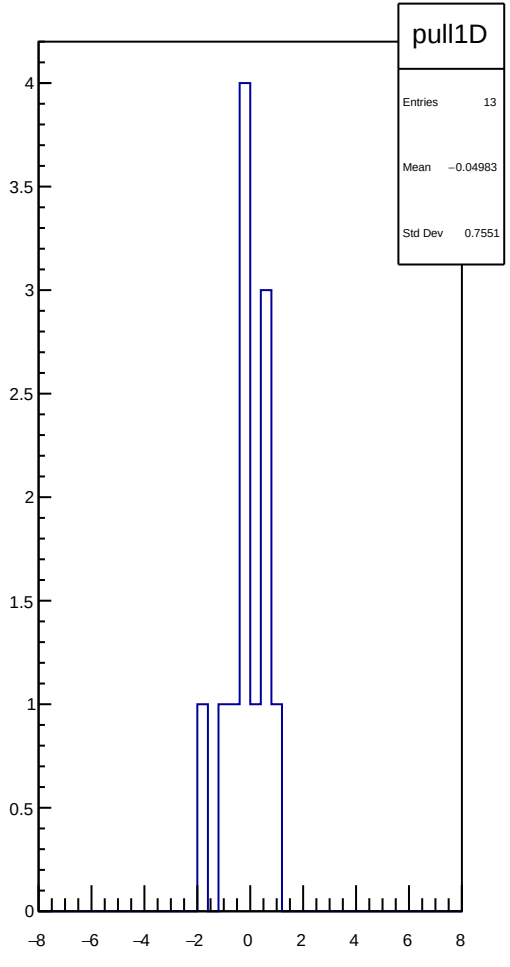

reg_asym_atr1l2_avg_diff_bpm11X_slope vs run
χ² / ndf 9.379 / 11
p0 −13.13 ± 6.224
60
40
20
0
−20
−40
−60
−80
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

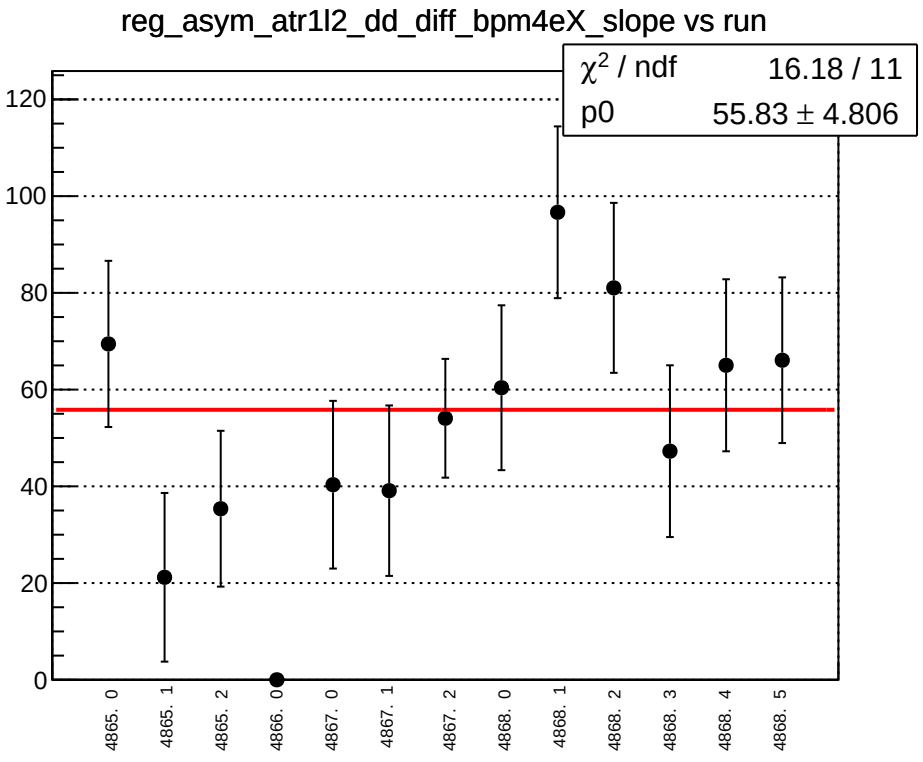

pull1D
Entries 13
Mean 0.003623
Std Dev 0.8841
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

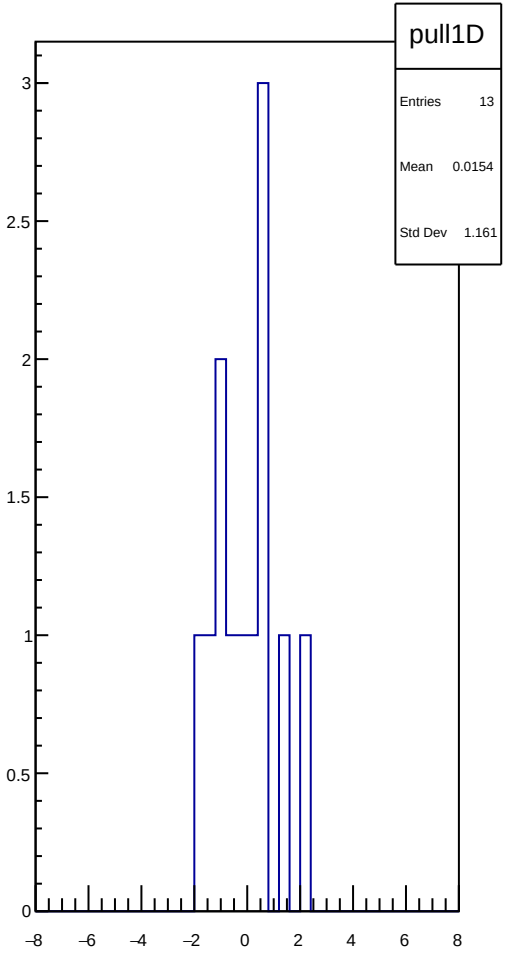

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 9.84 / 11
p0 3.963 ± 25.17
200
100
0
−100
−200
−300
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.01843
Std Dev 0.9054
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.871 / 11
p0 −32.38 ± 30.39
200
100
0
−100
−200
−300
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.04983
Std Dev 0.7551
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.18 / 11
p0 55.83 ± 4.806
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.0154
Std Dev 1.161
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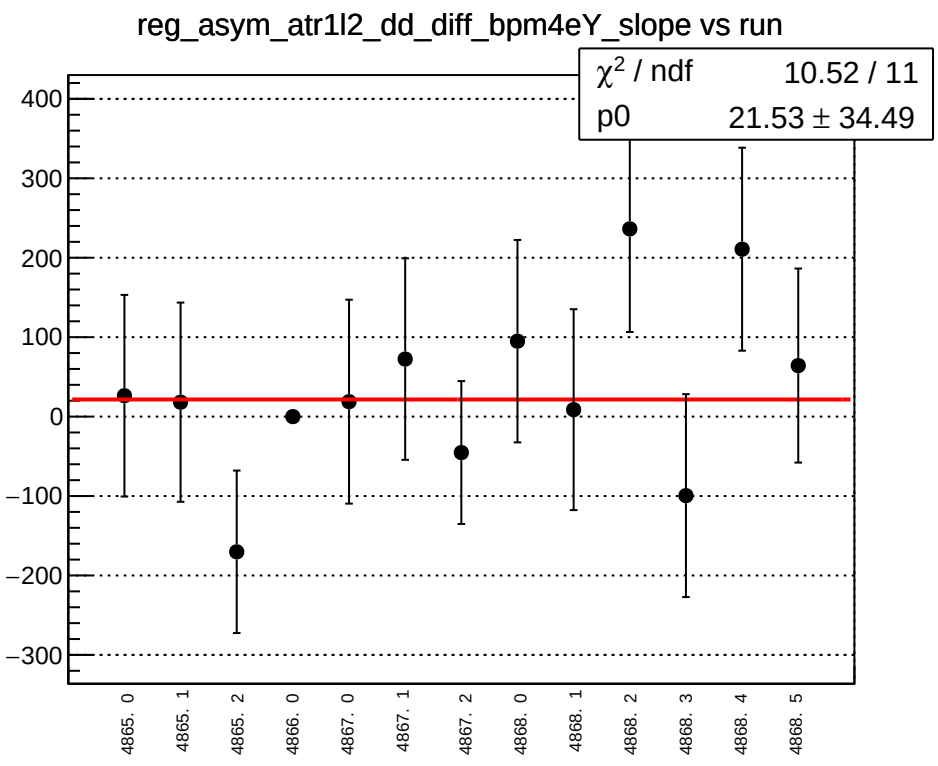
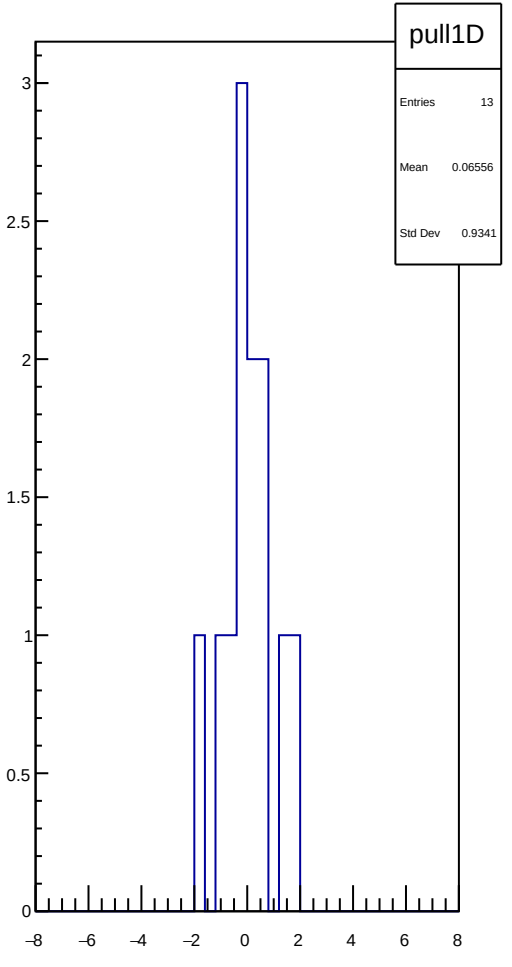
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.52 / 11
p0 21.53 ± 34.49
400
300
200
100
0
−100
−200
−300
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.06556
Std Dev 0.9341
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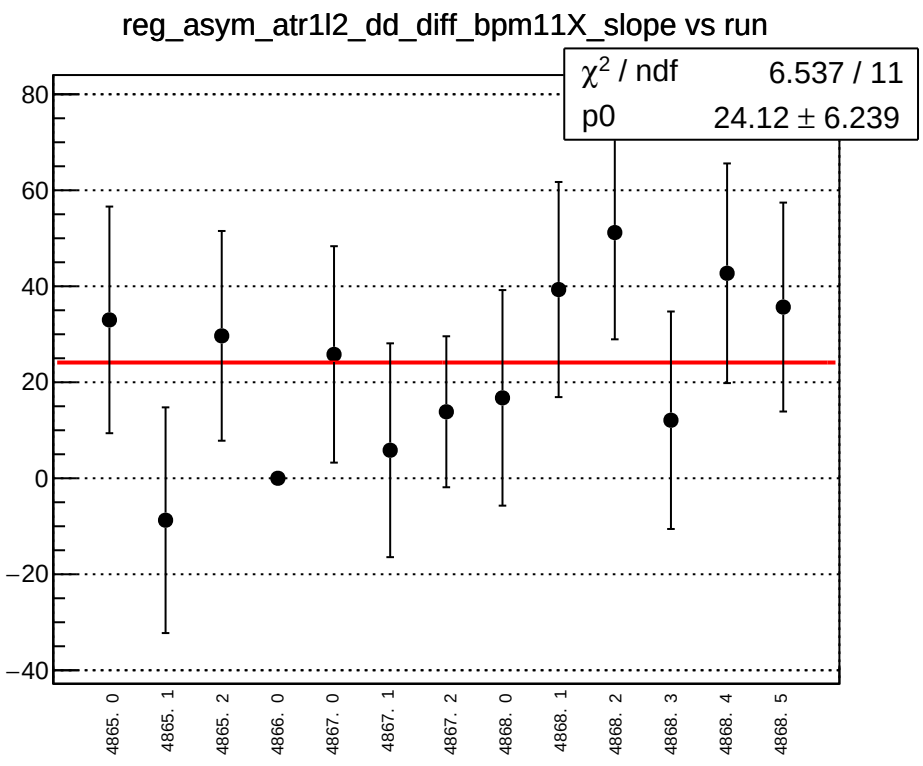
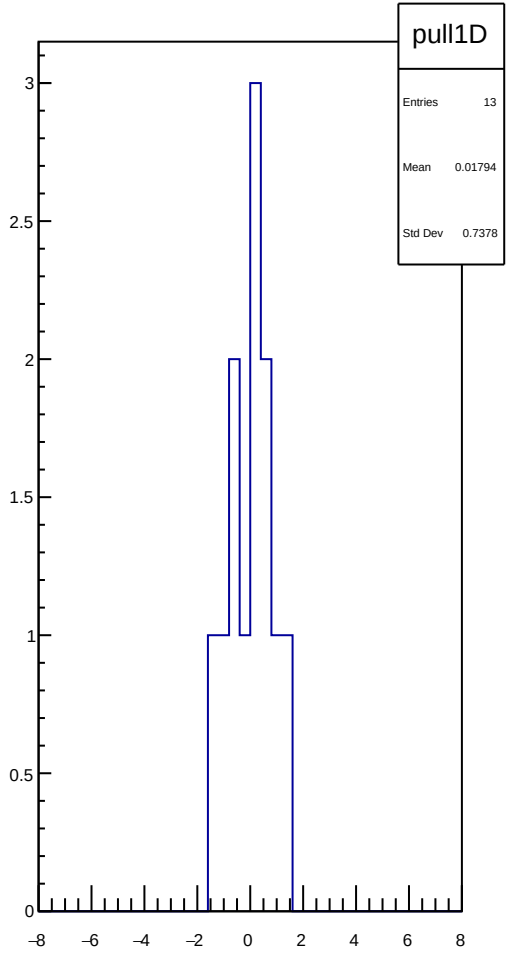
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_dd_diff_bpm11X_slope vs run
χ² / ndf 6.537 / 11
p0 24.12 ± 6.239
80
60
40
20
0
−20
−40
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.01794
Std Dev 0.7378
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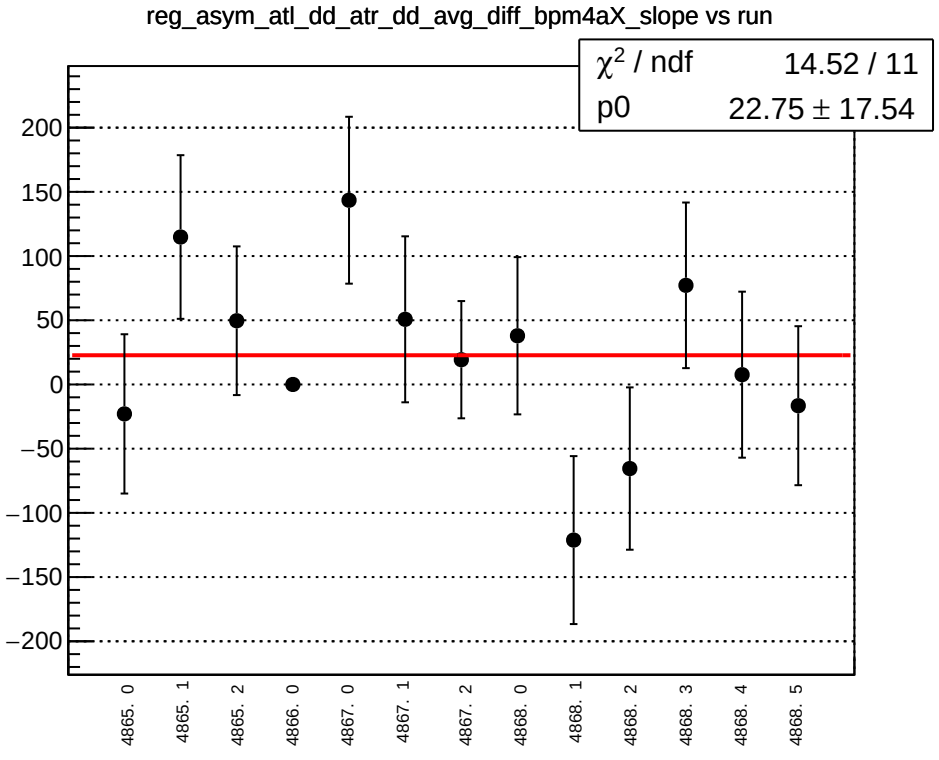
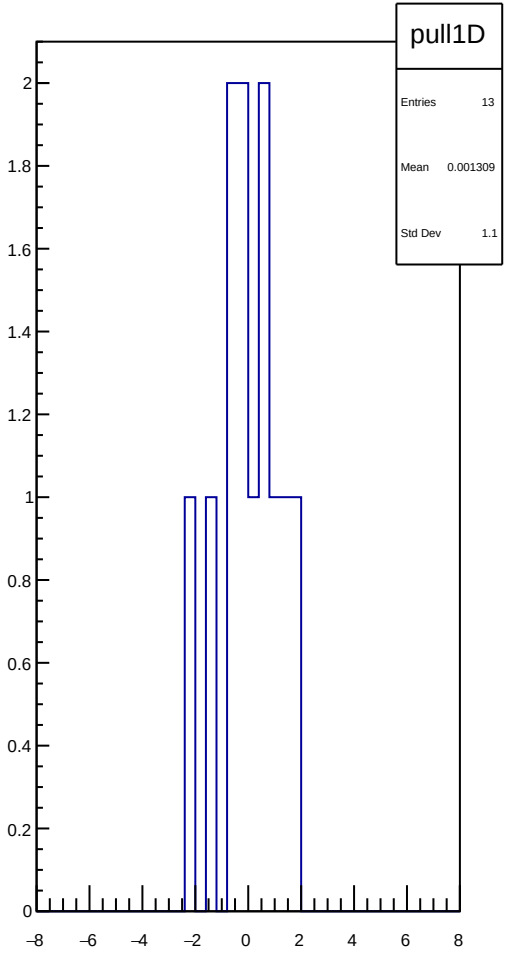
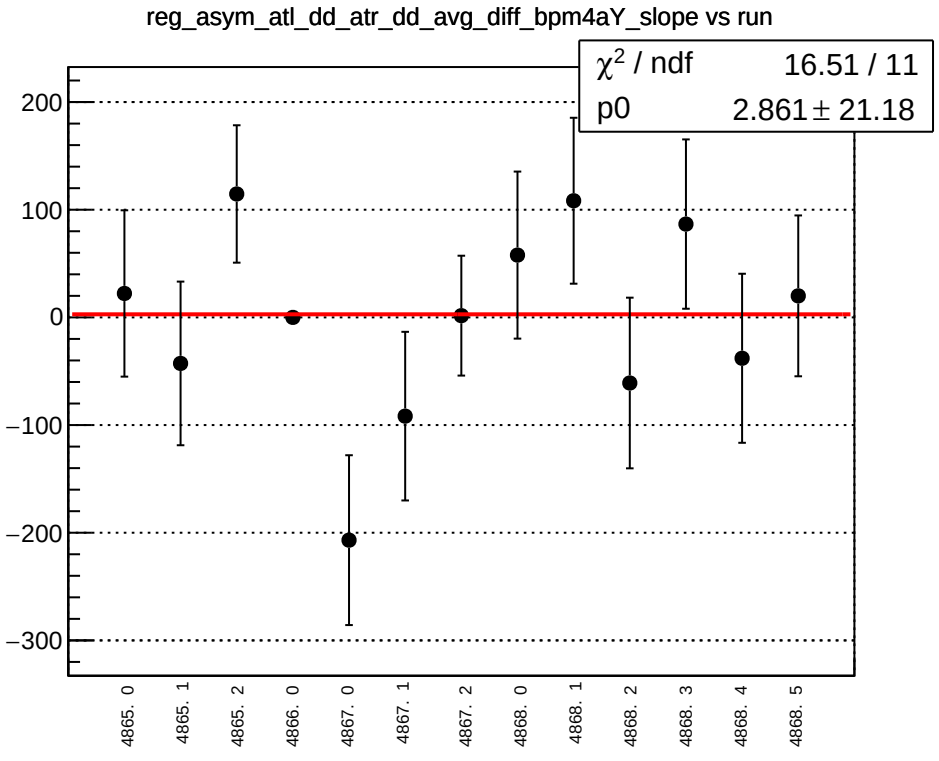
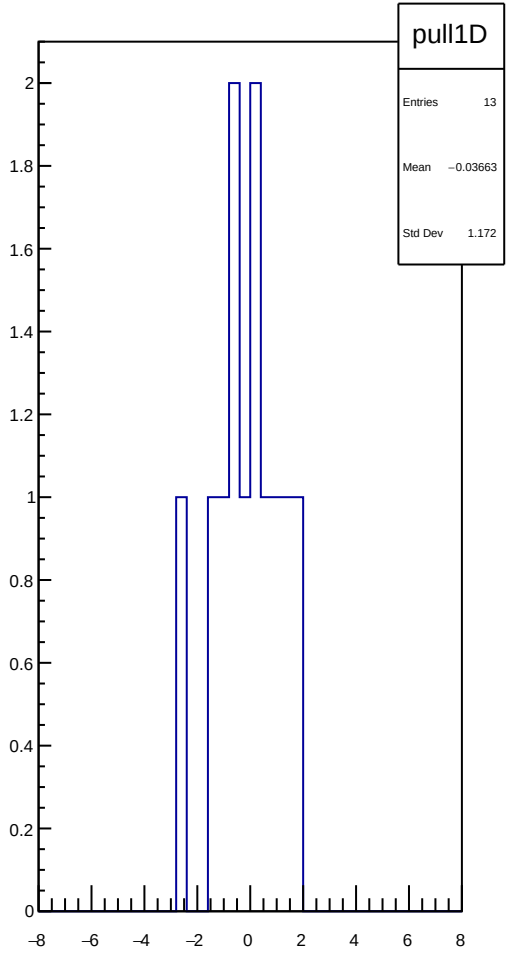
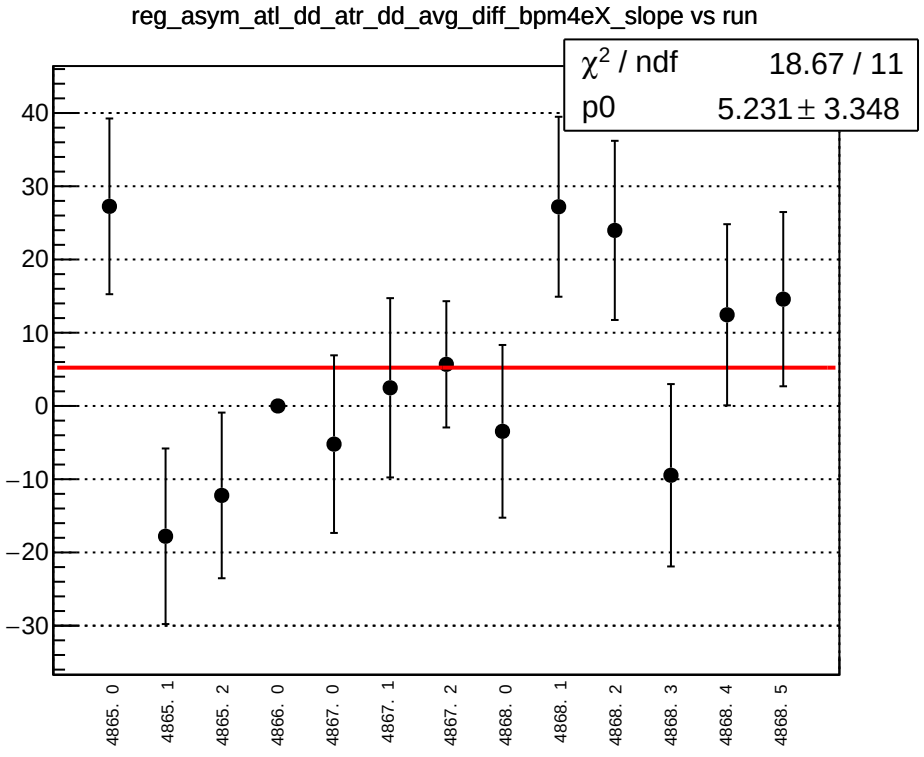
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

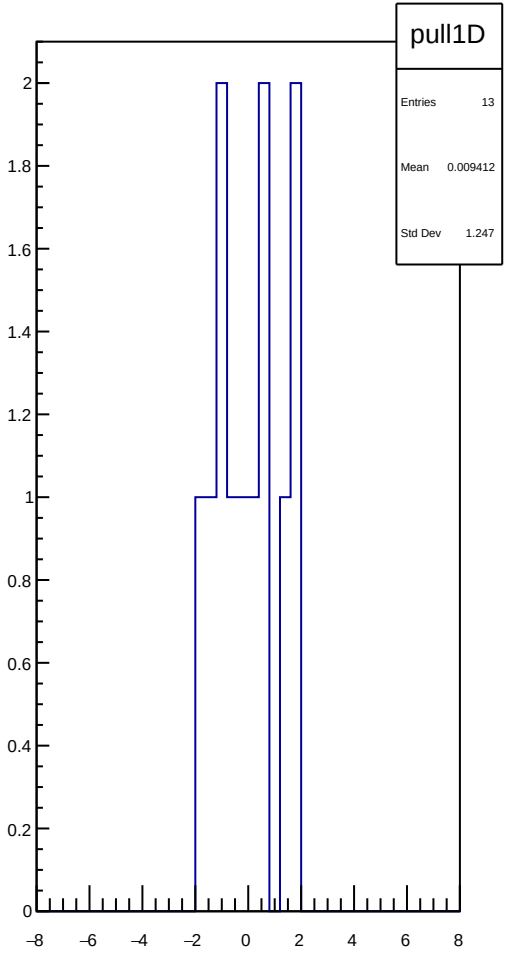

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aX_slope vs run
χ² / ndf 14.52 / 11
p0 22.75 ± 17.54
200
150
100
50
0
−50
−100
−150
−200
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

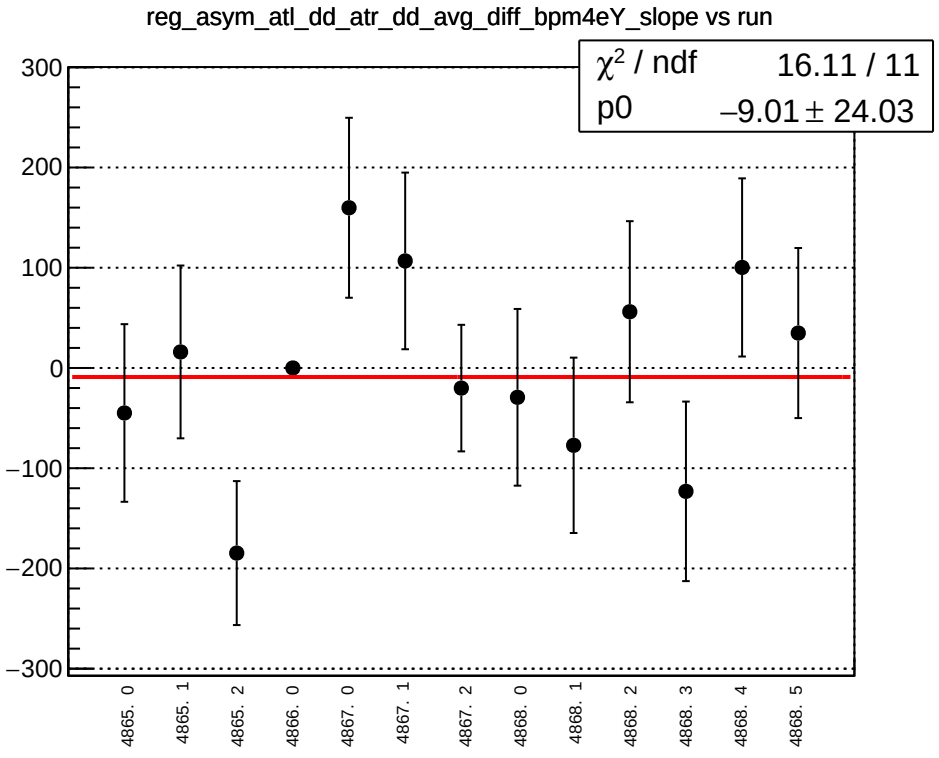

pull1D
Entries 13
Mean 0.001309
Std Dev 1.1
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

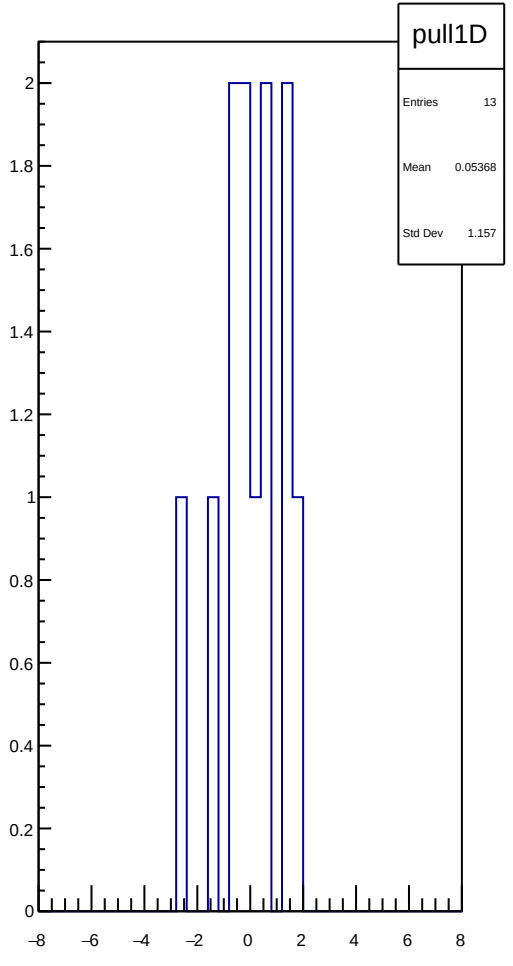

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.51 / 11
p0 2.861 ± 21.18
200
100
0
−100
−200
−300
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

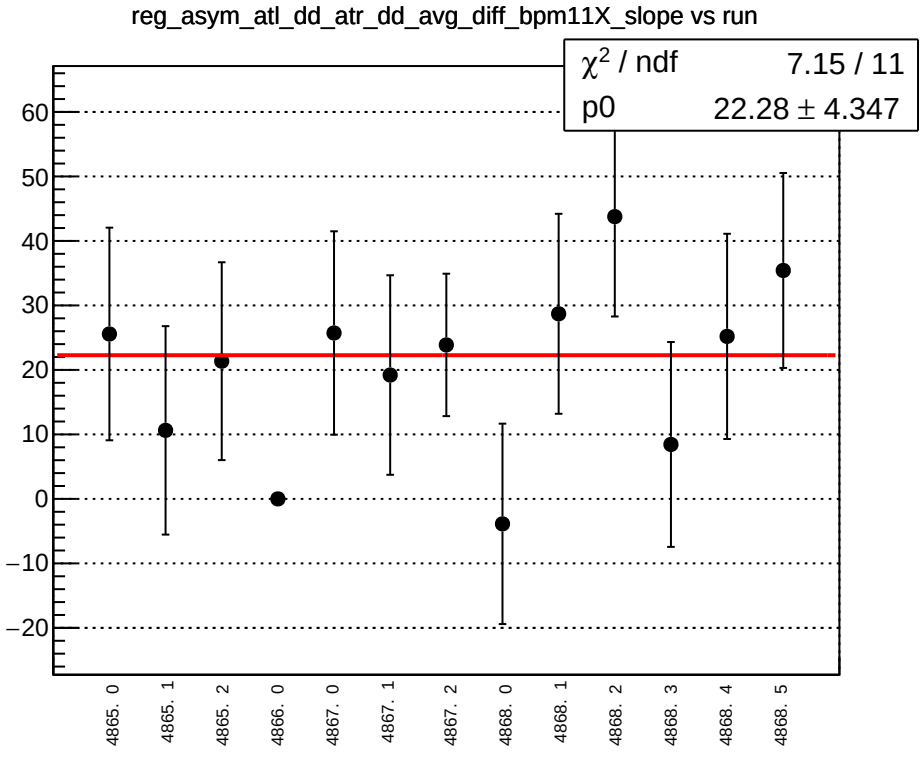

pull1D
Entries 13
Mean −0.03663
Std Dev 1.172
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

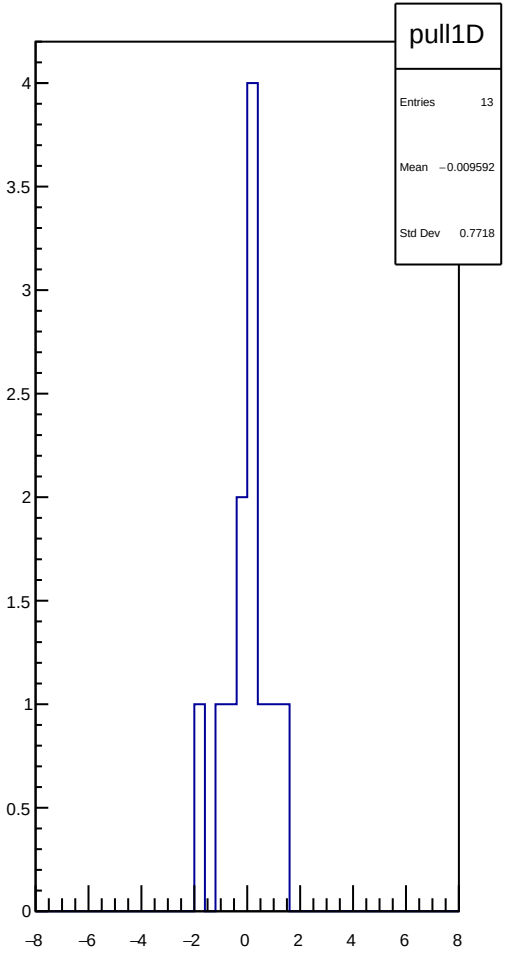

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.67 / 11
p0 5.231 ± 3.348
40
30
20
10
0
−10
−20
−30
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

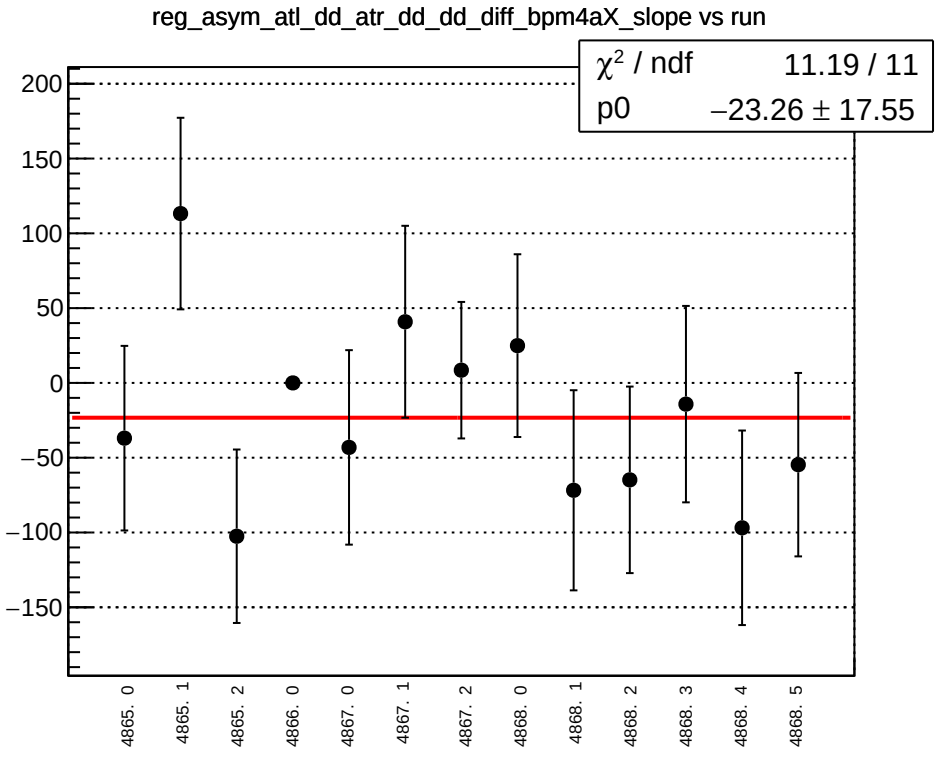

pull1D
Entries 13
Mean 0.009412
Std Dev 1.247
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

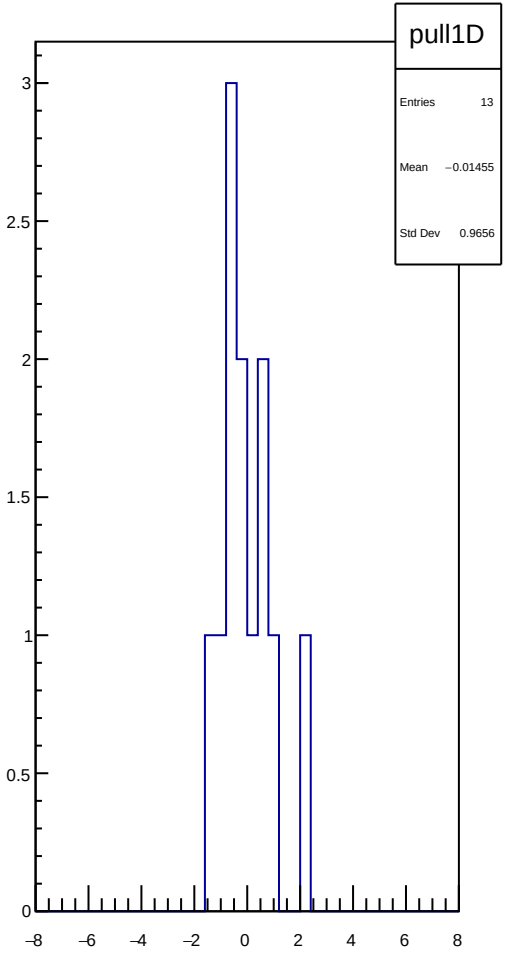

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.11 / 11
p0 −9.01 ± 24.03
300
200
100
0
−100
−200
−300
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.05368
Std Dev 1.157
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_atr_dd_avg_diff_bpm11X_slope vs run
χ² / ndf 7.15 / 11
p0 22.28 ± 4.347
60
50
40
30
20
10
0
−10
−20
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.009592
Std Dev 0.7718
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_atr_dd_dd_diff_bpm4aX_slope vs run
χ² / ndf 11.19 / 11
p0 −23.26 ± 17.55
200
150
100
50
0
−50
−100
−150
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.01455
Std Dev 0.9656
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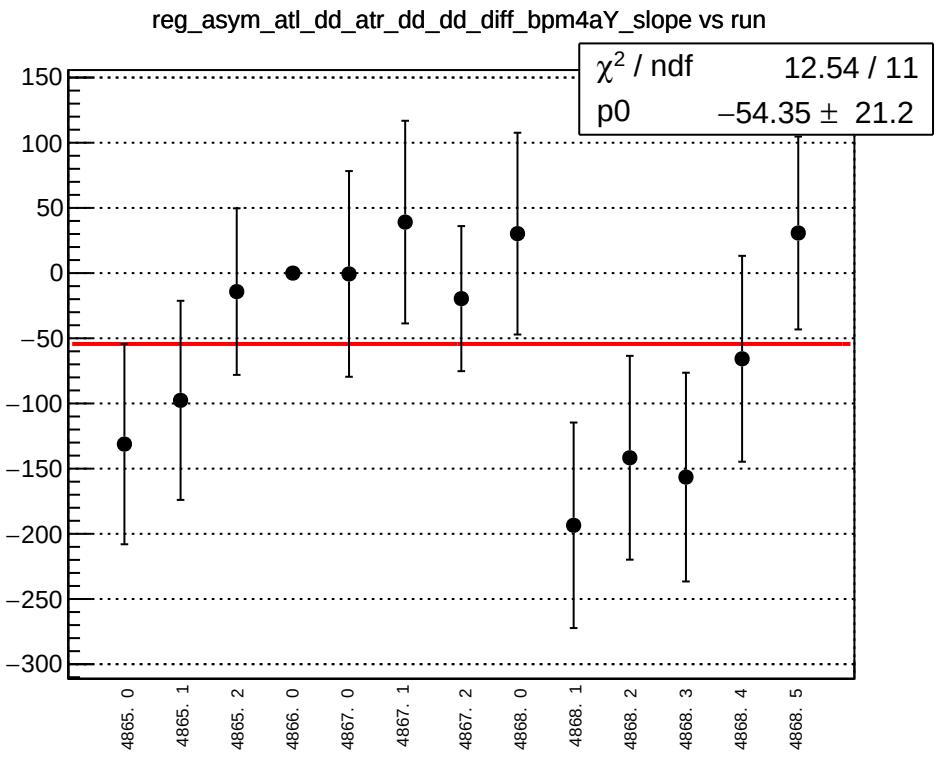
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.54 / 11
p0 −54.35 ± 21.2
150
100
50
0
−50
−100
−150
−200
−250
−300
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
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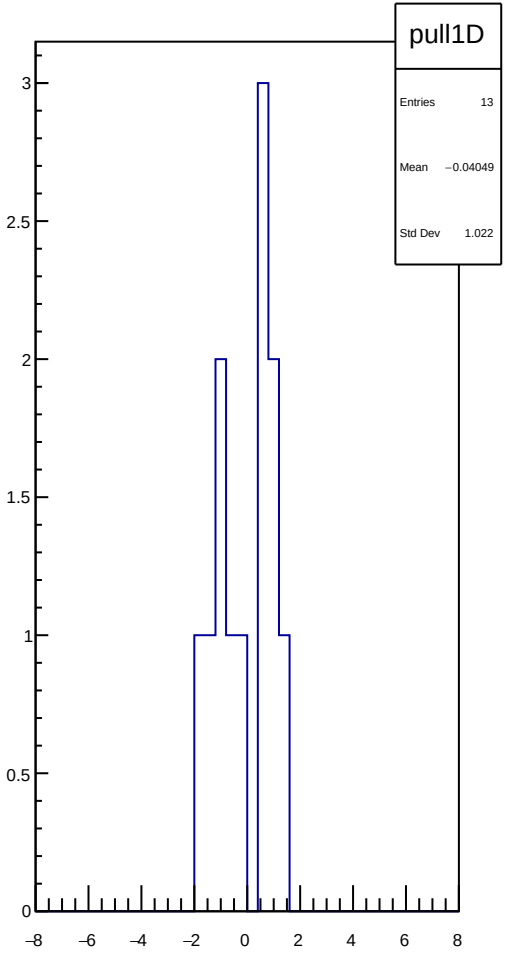
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.04049
Std Dev 1.022
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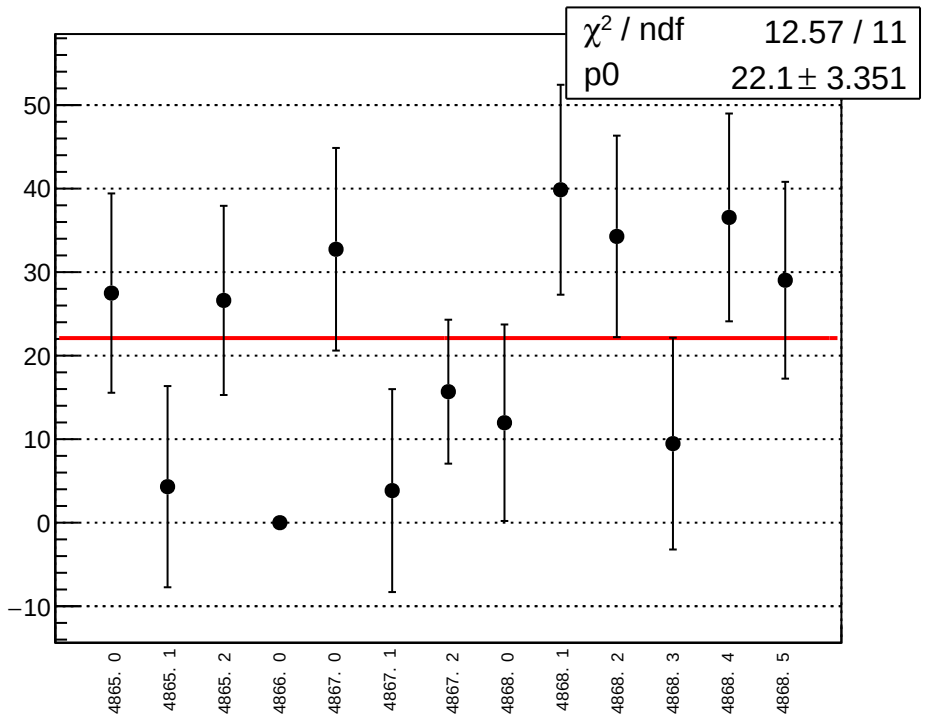
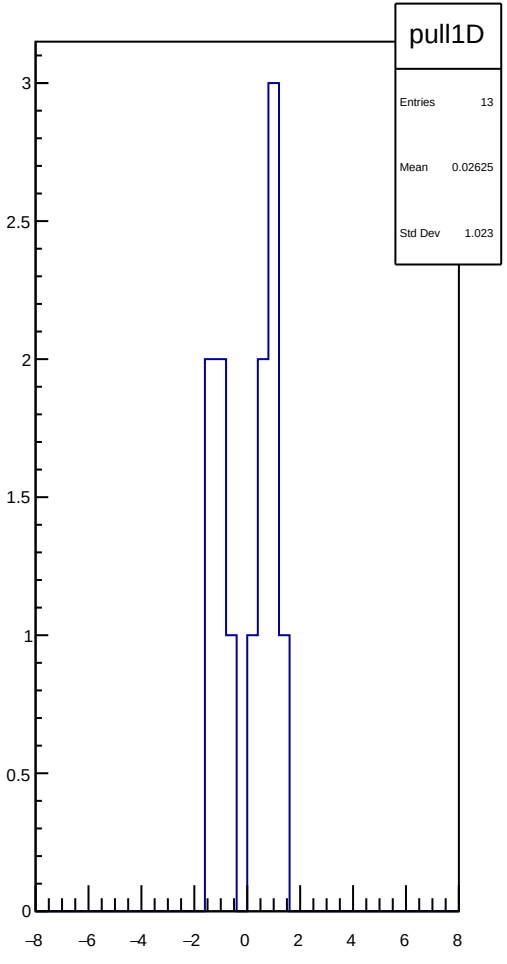
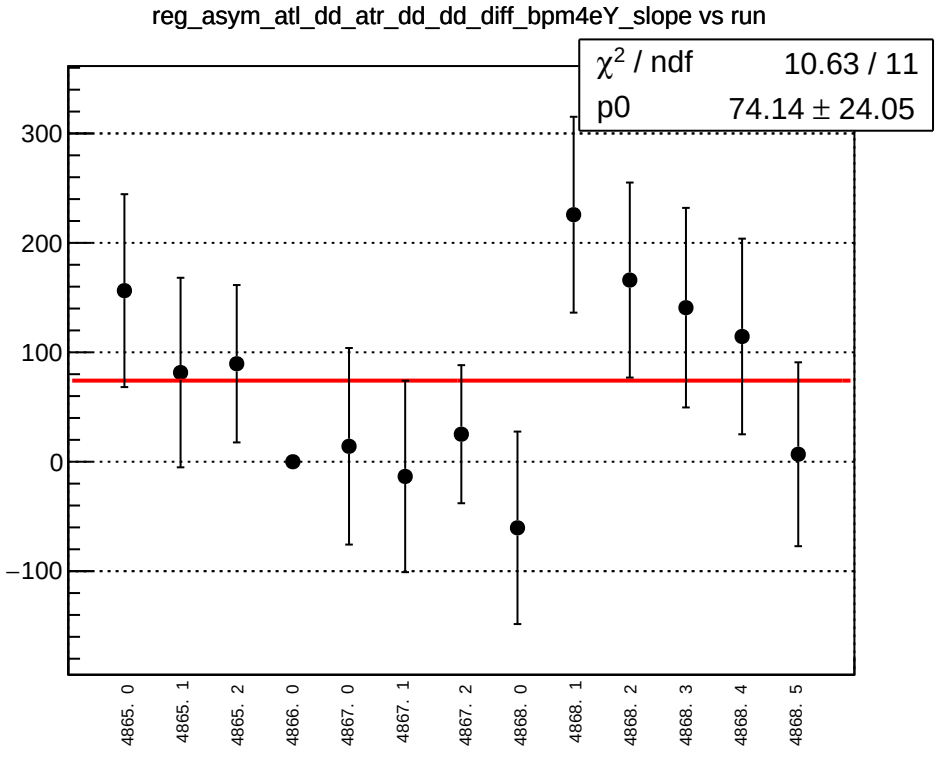
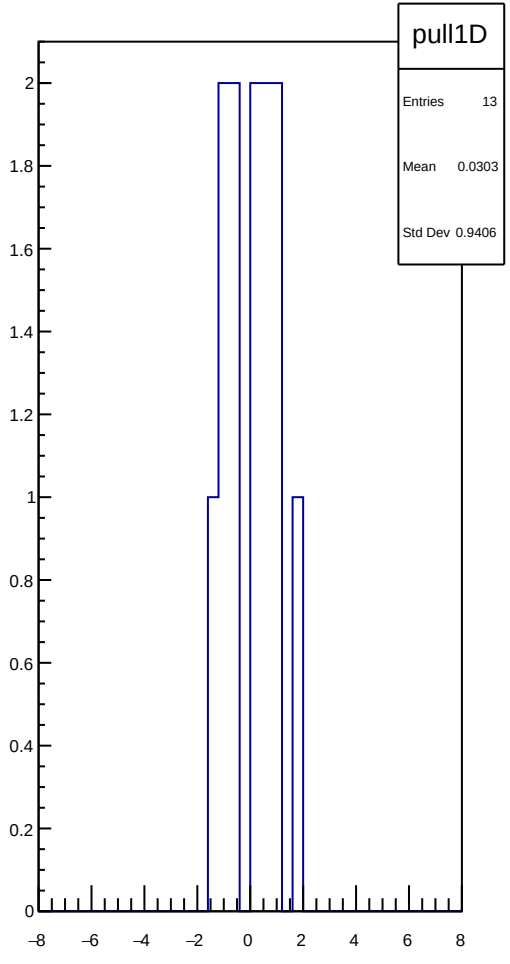
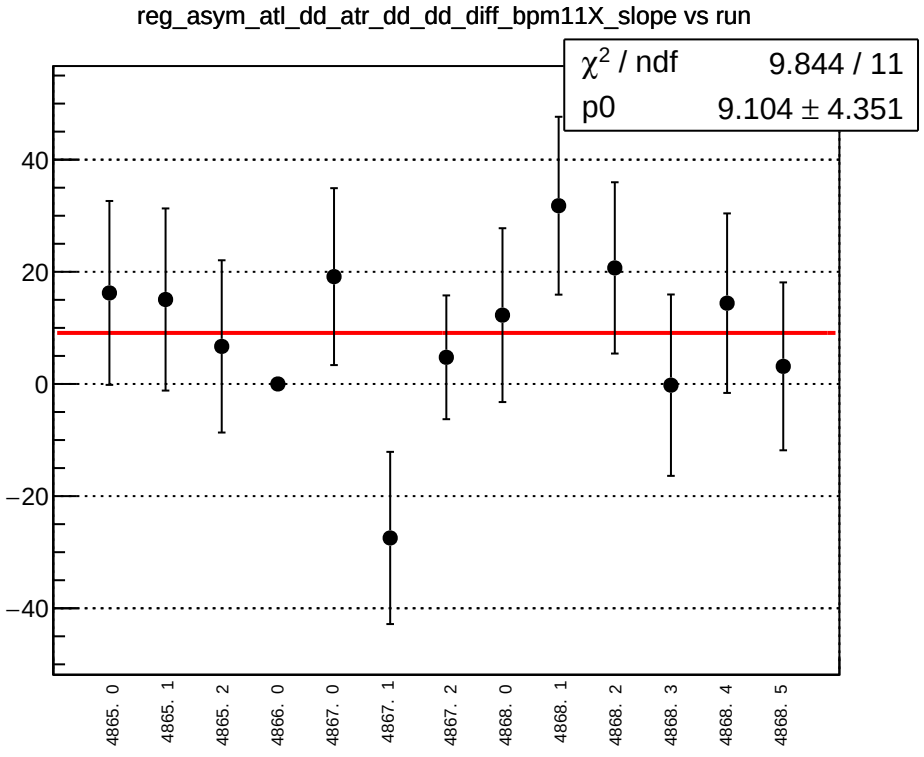
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

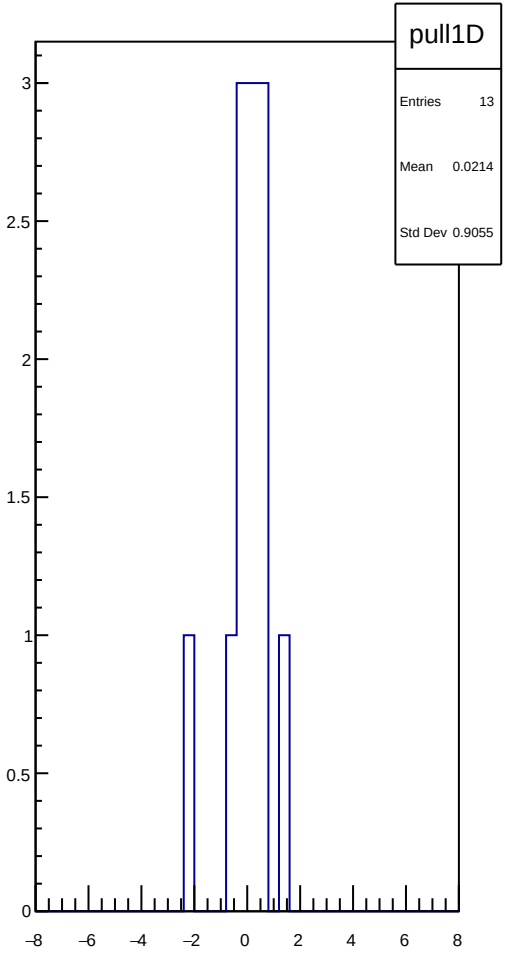

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.57 / 11
p0 22.1 ± 3.351
50
40
30
20
10
0
−10
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

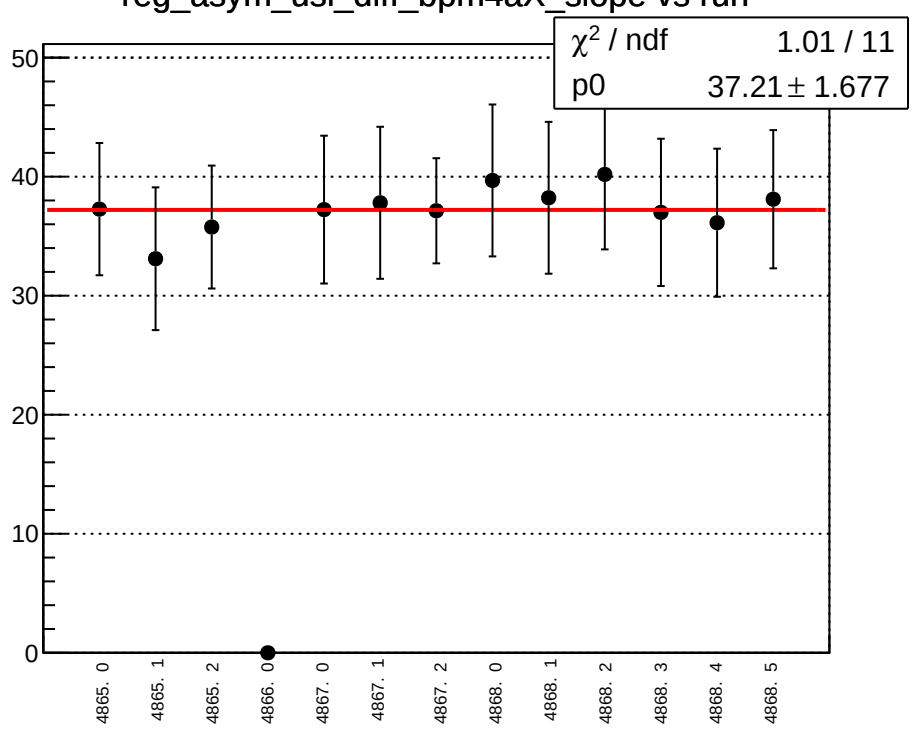

pull1D
Entries 13
Mean 0.02625
Std Dev 1.023
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

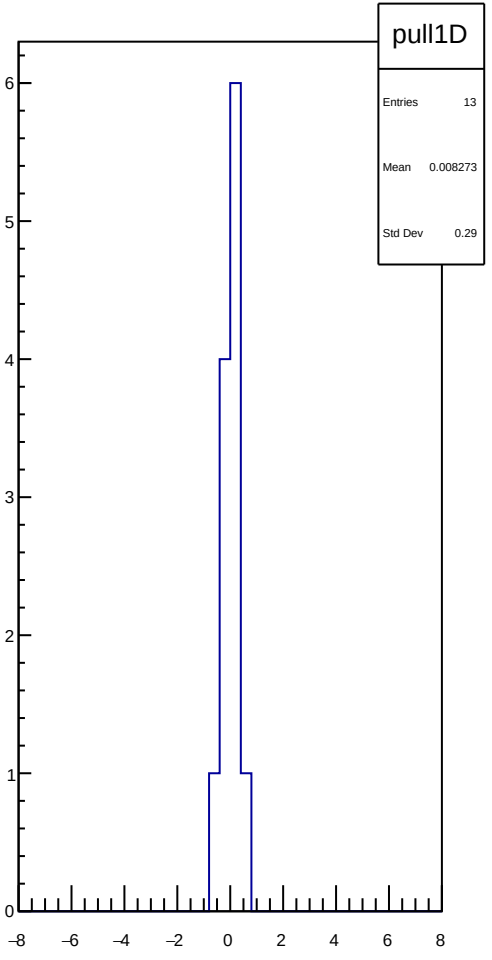

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.63 / 11
p0 74.14 ± 24.05
300
200
100
0
−100
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

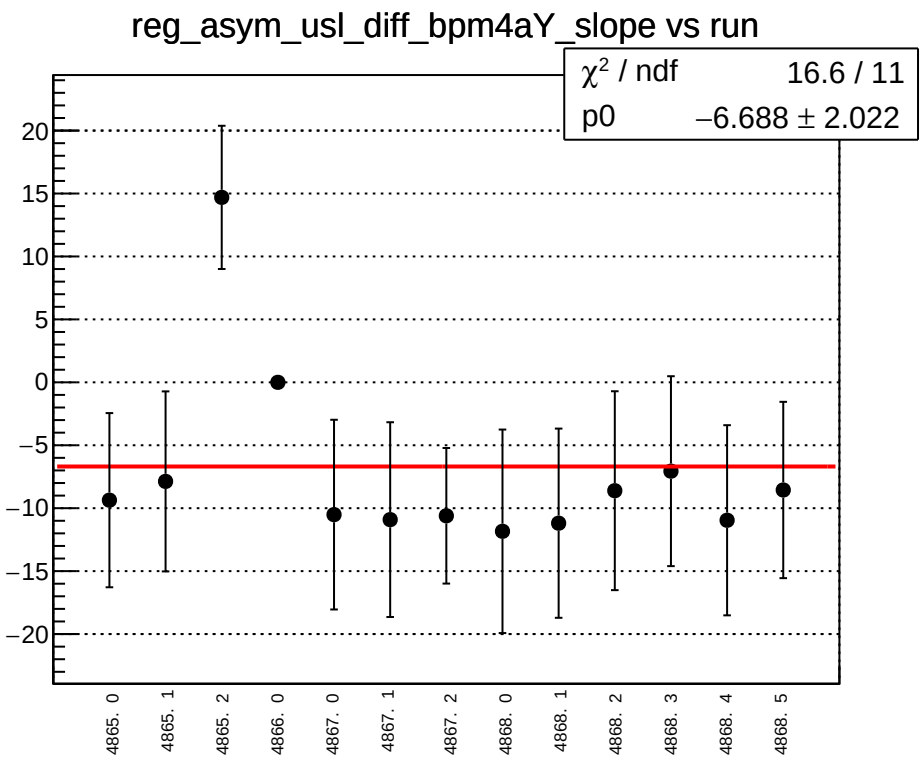

pull1D
Entries 13
Mean 0.0303
Std Dev 0.9406
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_atr_dd_dd_diff_bpm11X_slope vs run
χ² / ndf 9.844 / 11
p0 9.104 ± 4.351
40
20
0
−20
−40
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.0214
Std Dev 0.9055
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usl_diff_bpm4aX_slope vs run
χ2 / ndf 1.01 / 11
p0 37.21 ± 1.677
50
40
30
20
10
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.008273
Std Dev 0.29
6
5
4
3
2
1
0
–8
–6
–4
–2
0
2
4
6
8


reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 16.6 / 11
p0 −6.688 ± 2.022
20
15
10
5
0
−5
−10
−15
−20
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
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4868. 2
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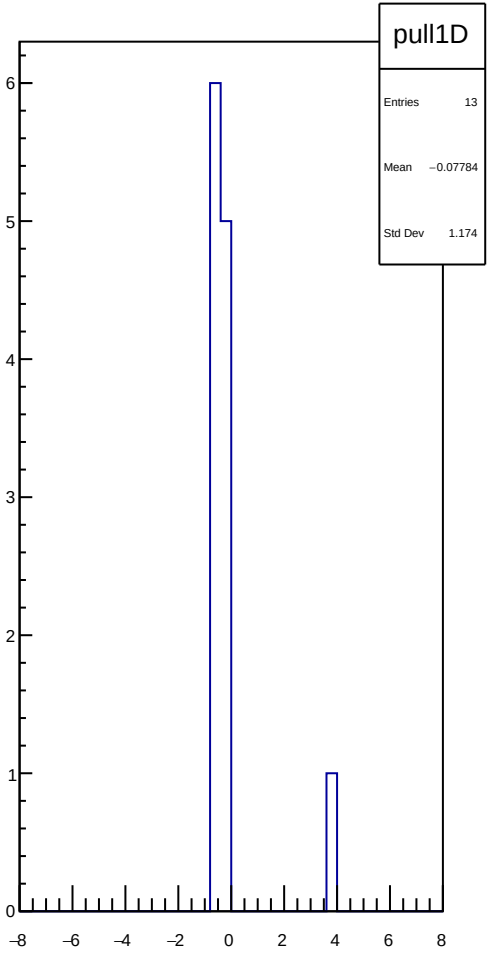
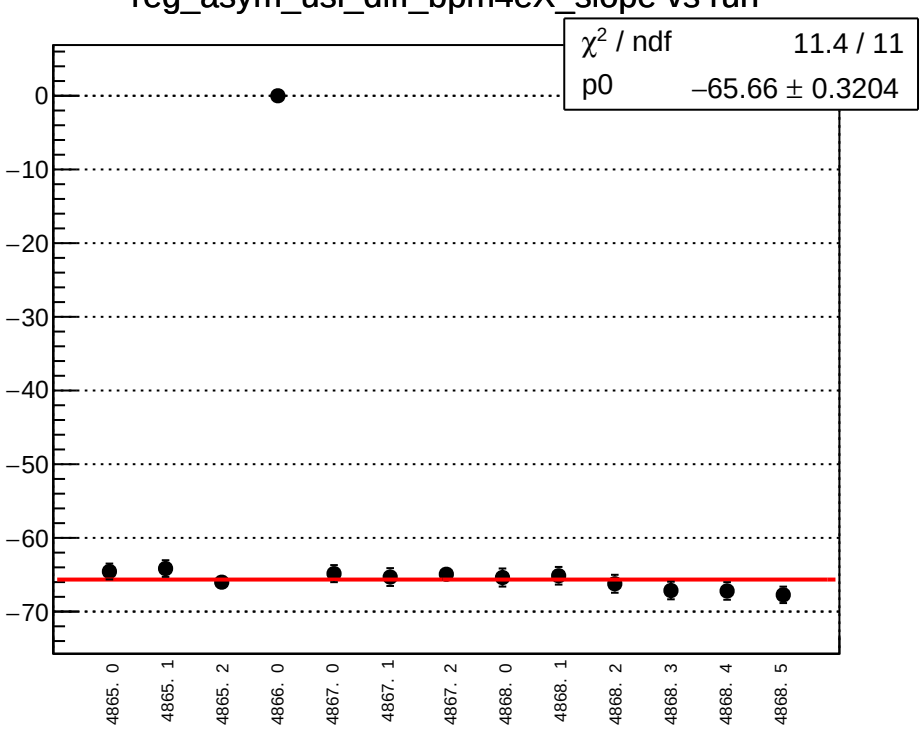
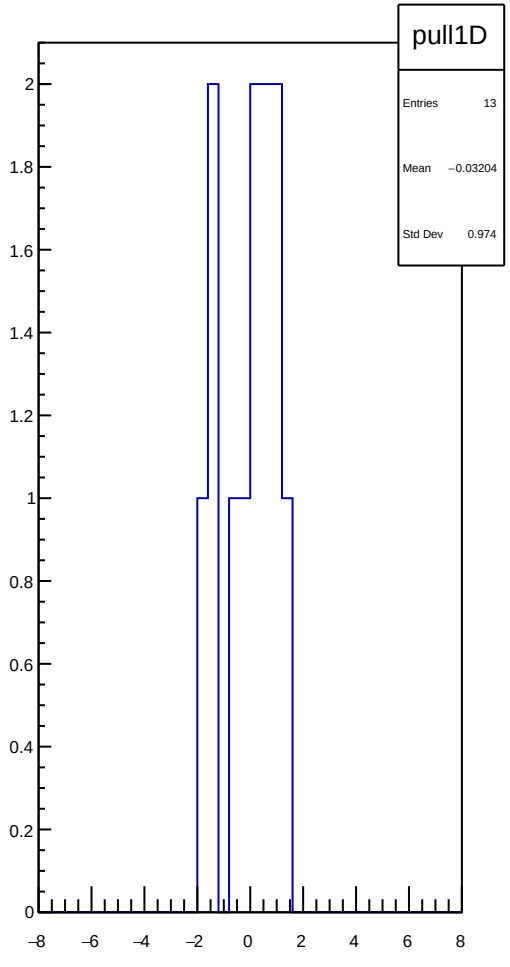
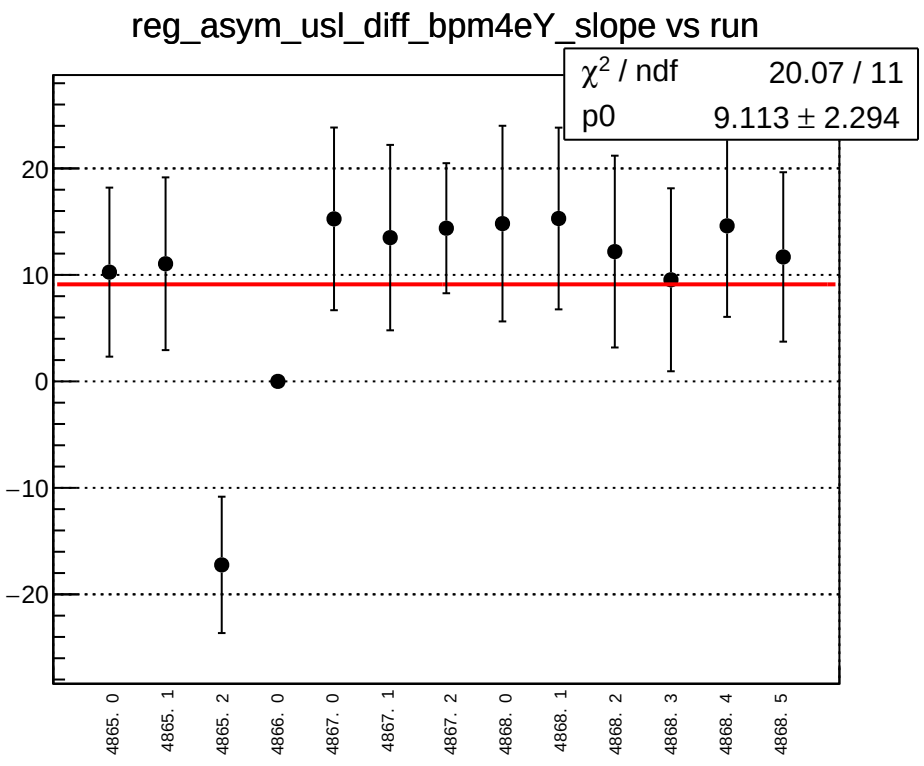
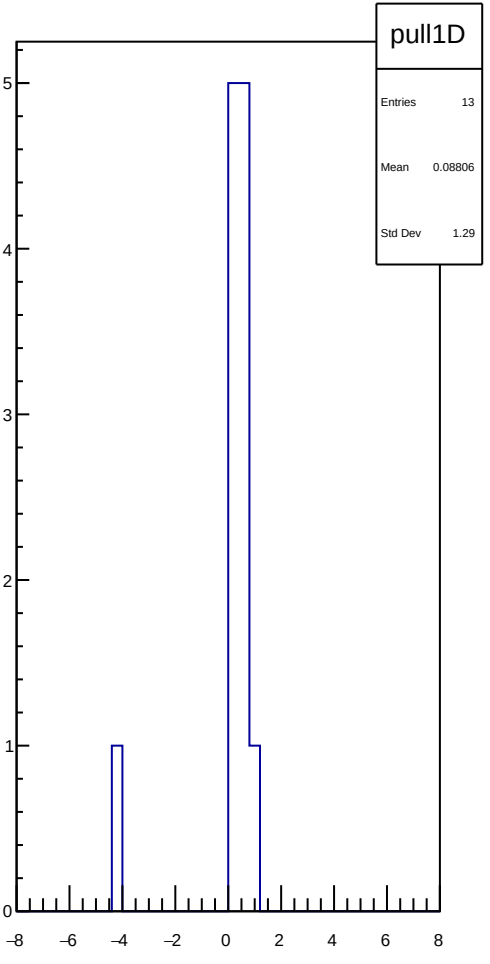
4868. 4
4868. 5

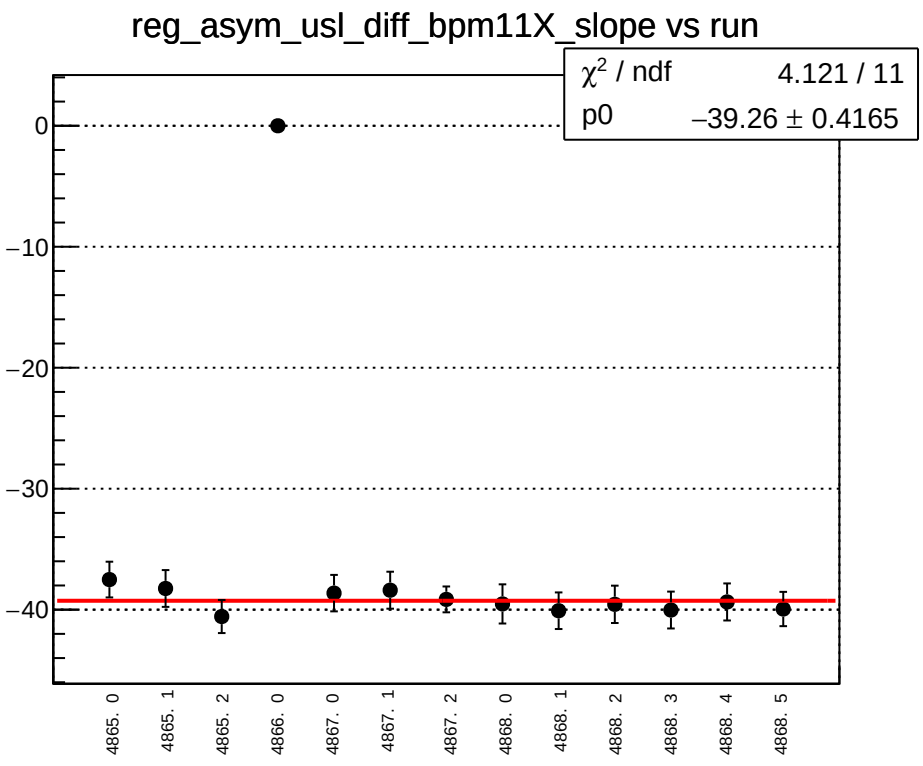

pull1D
Entries 13
Mean −0.07784
Std Dev 1.174
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

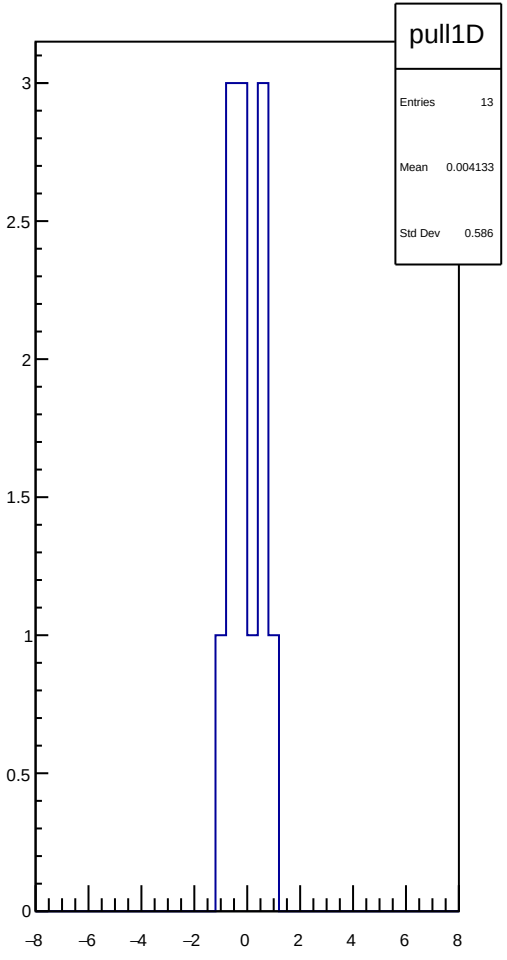

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 11.4 / 11
p0 −65.66 ± 0.3204
0
−10
−20
−30
−40
−50
−60
−70
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

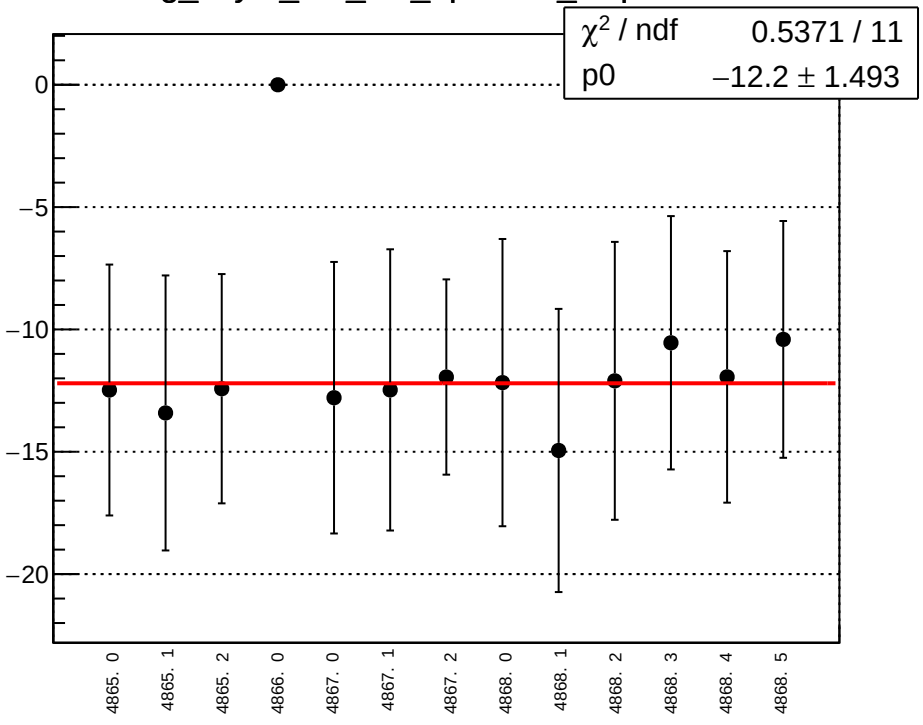

pull1D
Entries 13
Mean −0.03204
Std Dev 0.974
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

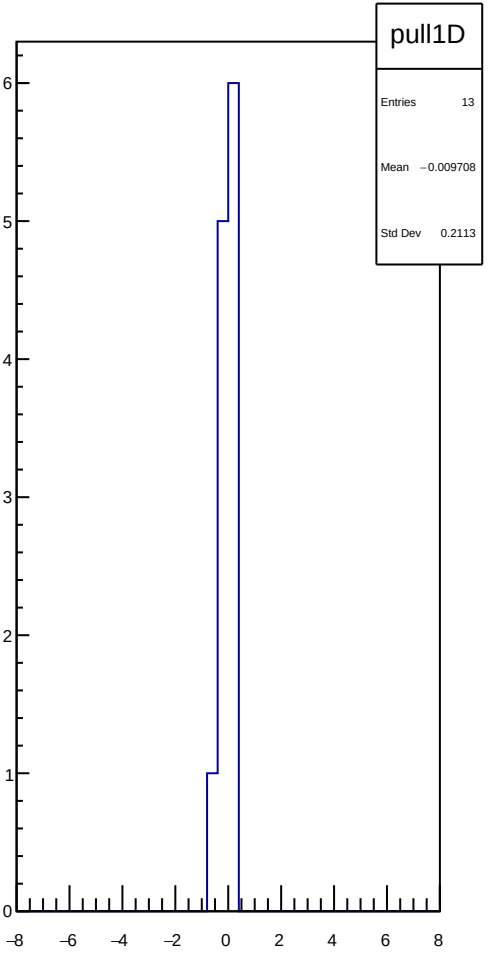

reg_asym_usl_diff_bpm4eY_slope vs run
χ2 / ndf 20.07 / 11
p0 9.113 ± 2.294
20
10
0
−10
−20
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

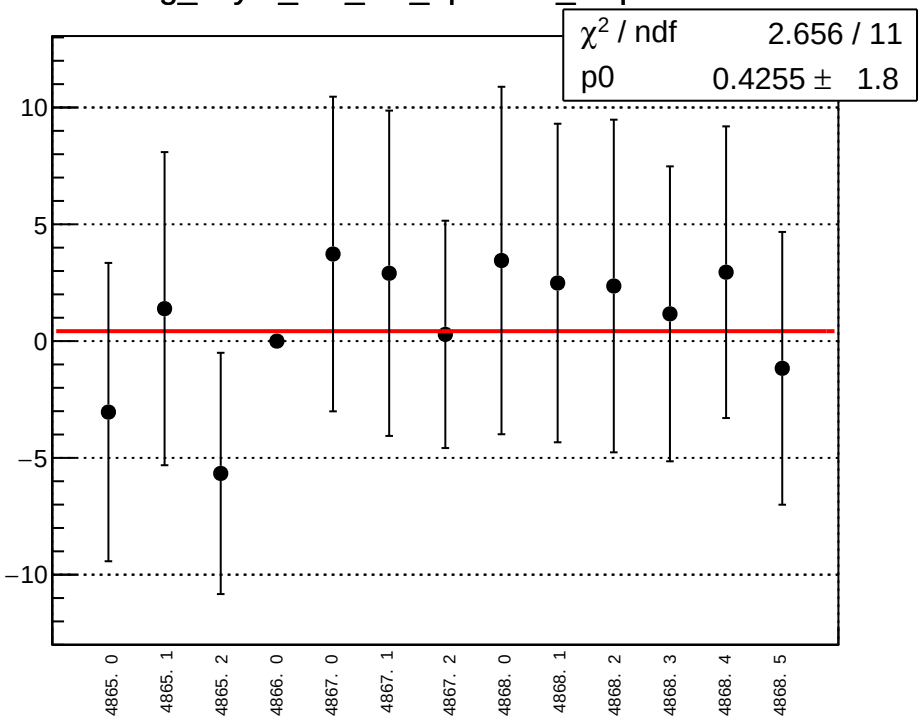

pull1D
Entries 13
Mean 0.08806
Std Dev 1.29
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usl_diff_bpm11X_slope vs run
χ² / ndf 4.121 / 11
p0 −39.26 ± 0.4165
0
−10
−20
−30
−40
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.004133
Std Dev 0.586
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 0.5371 / 11
p0 −12.2 ± 1.493
0
−5
−10
−15
−20
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.009708
Std Dev 0.2113
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 2.656 / 11
p0 0.4255 ± 1.8
10
5
0
−5
−10
4865. 0
4865. 1
4865. 2
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4867. 1
4867. 2
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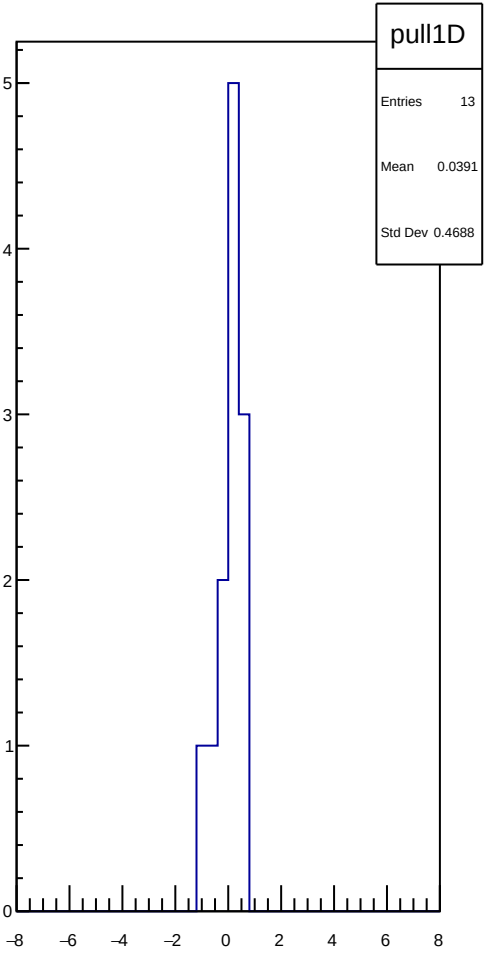
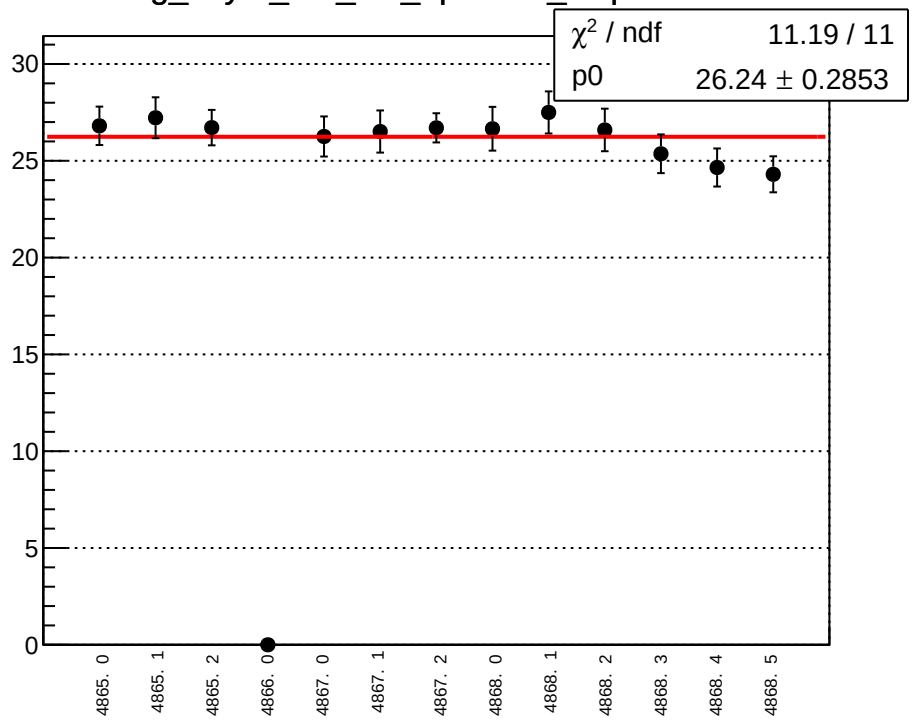
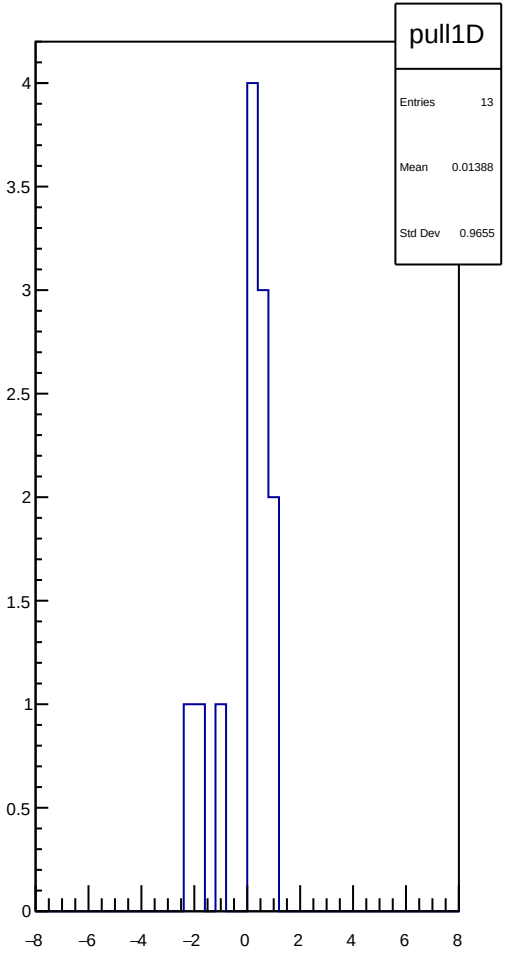
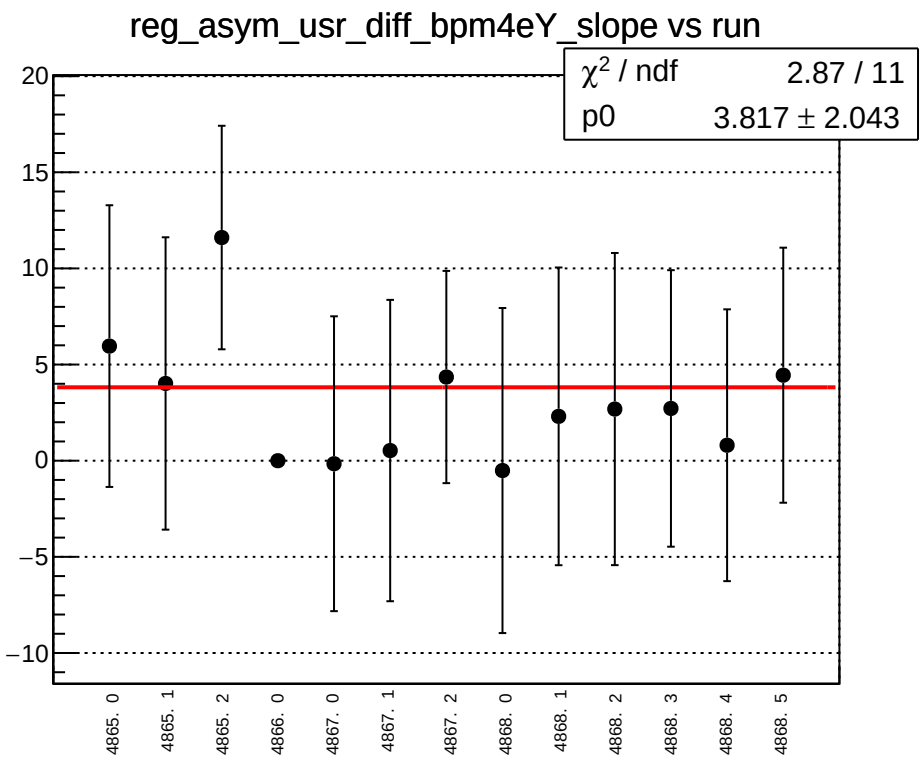
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.0391
Std Dev 0.4688
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 11.19 / 11
p0 26.24 ± 0.2853
30
25
20
15
10
5
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.01388
Std Dev 0.9655
4
3.5
3
2.5
2
1.5
1
0.5
0
–8
–6
–4
–2
0
2
4
6
8


reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 2.87 / 11
p0 3.817 ± 2.043
20
15
10
5
0
−5
−10
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
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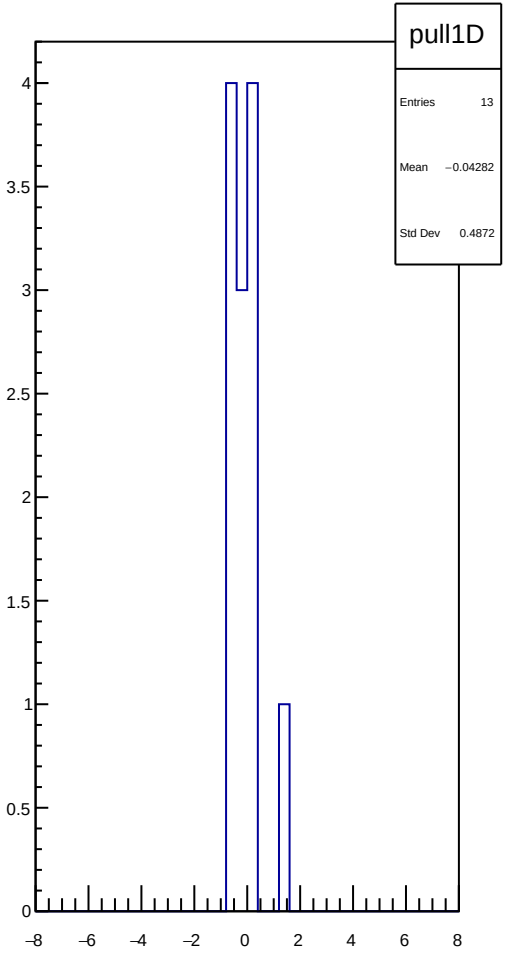
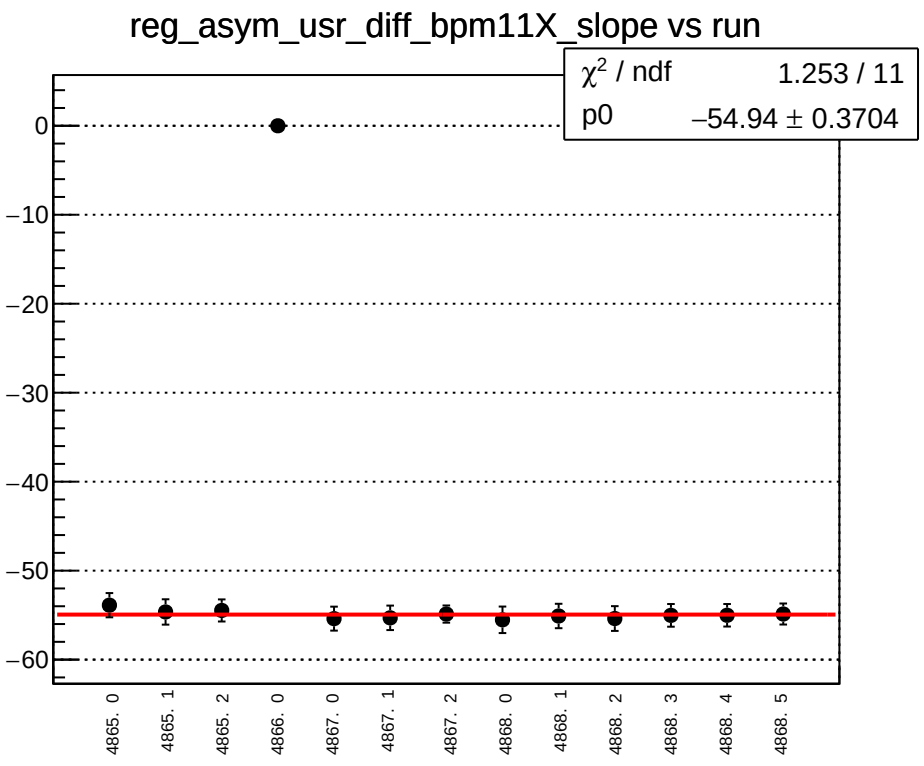
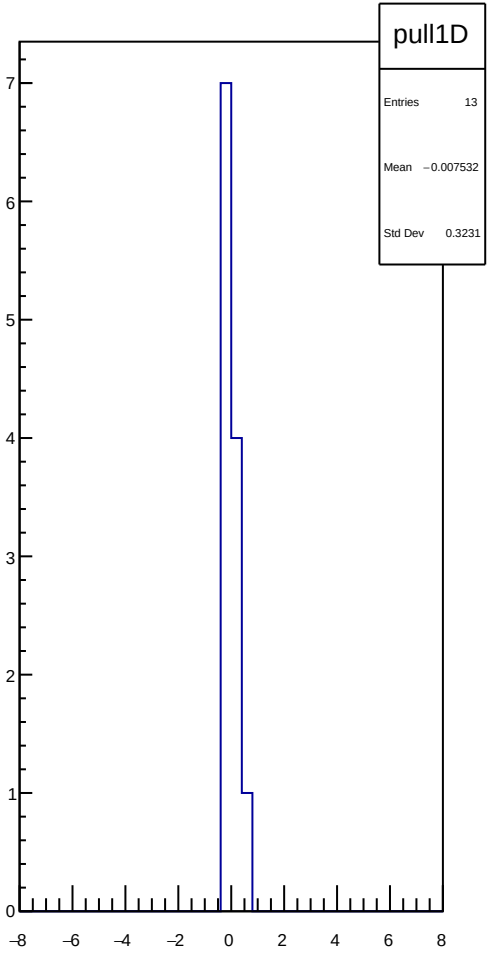
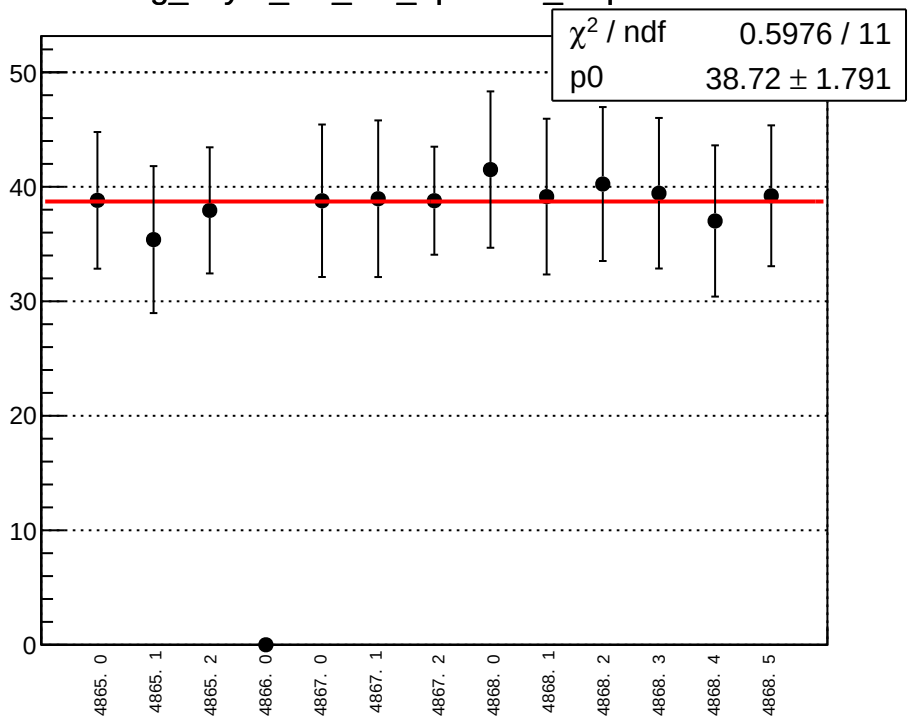
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.04282
Std Dev 0.4872
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usr_diff_bpm11X_slope vs run
χ² / ndf 1.253 / 11
p0 −54.94 ± 0.3704
0
−10
−20
−30
−40
−50
−60
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.007532
Std Dev 0.3231
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 0.5976 / 11
p0 38.72 ± 1.791
50
40
30
20
10
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
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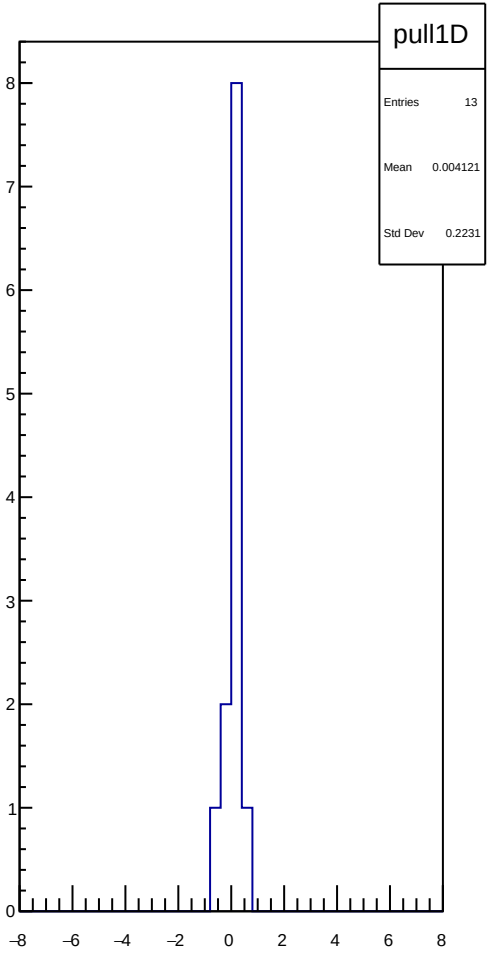
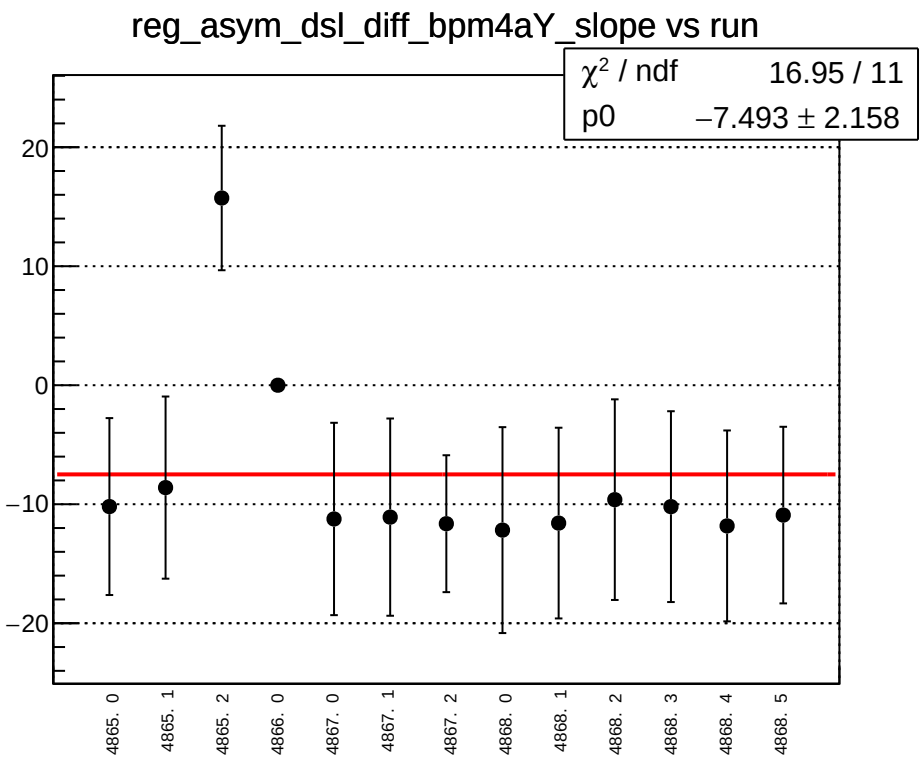
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.004121
Std Dev 0.2231
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 16.95 / 11
p0 −7.493 ± 2.158
20
10
0
−10
−20
4865. 0
4865. 1
4865. 2
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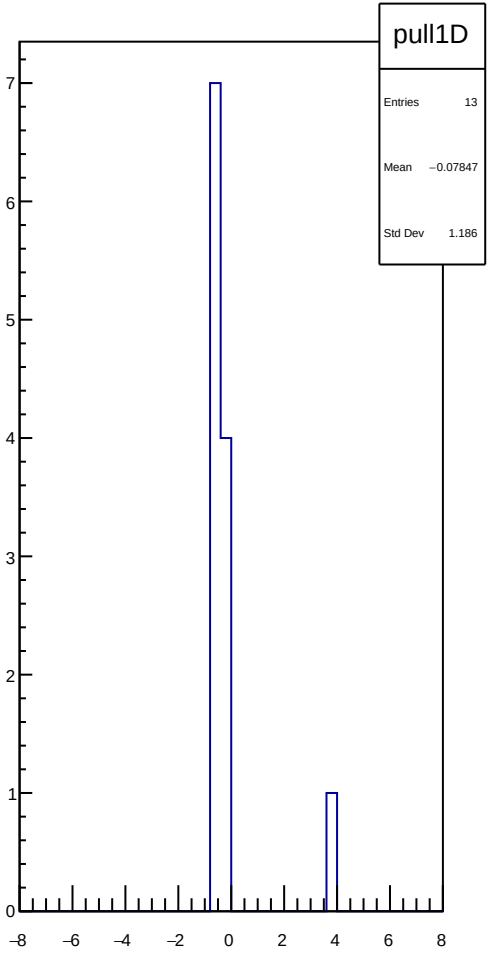
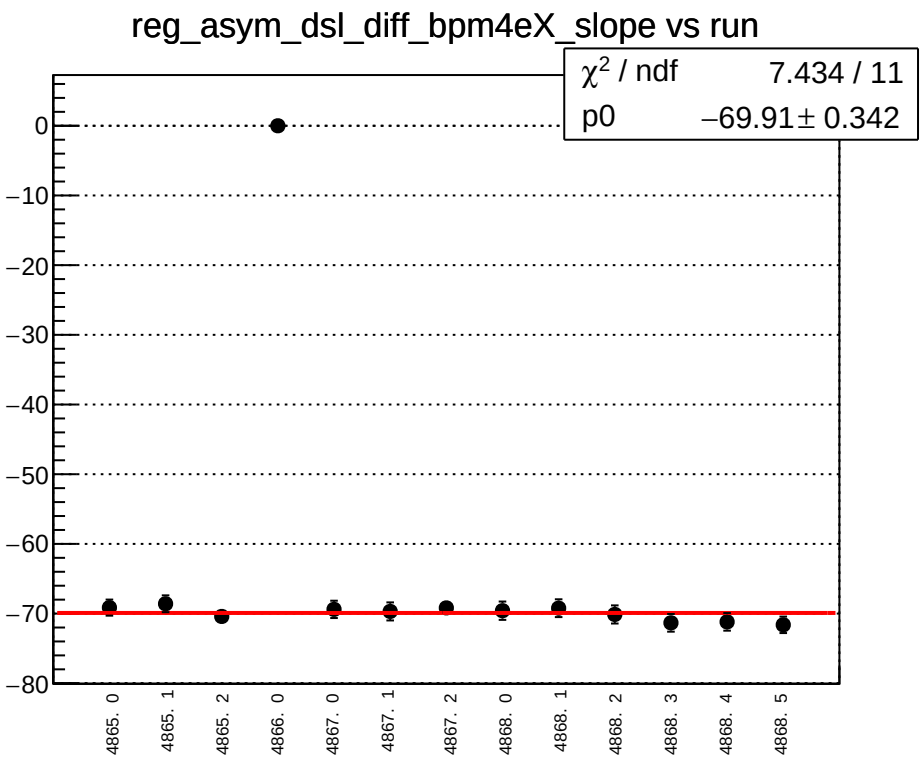
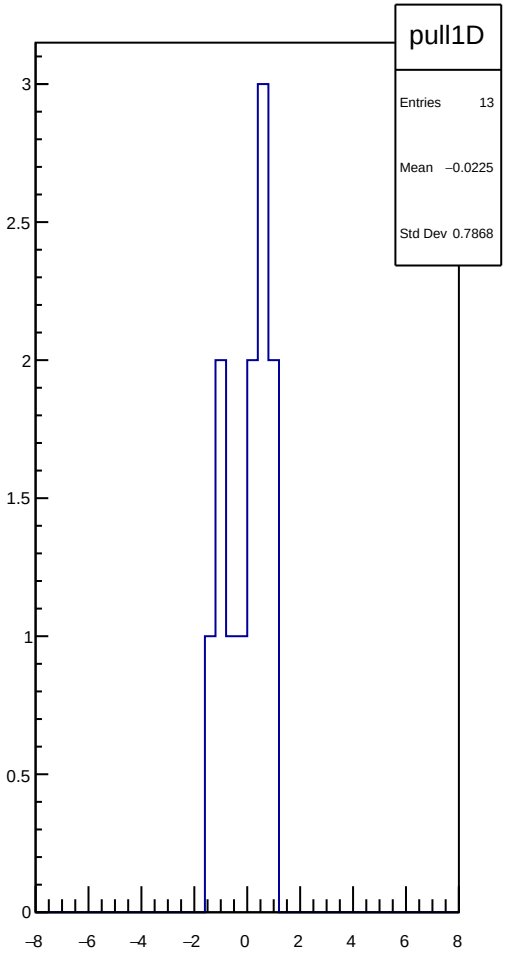
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.07847
Std Dev 1.186
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_dsl_diff_bpm4eX_slope vs run
χ2 / ndf 7.434 / 11
p0 −69.91± 0.342
0
−10
−20
−30
−40
−50
−60
−70
−80
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.0225
Std Dev 0.7868
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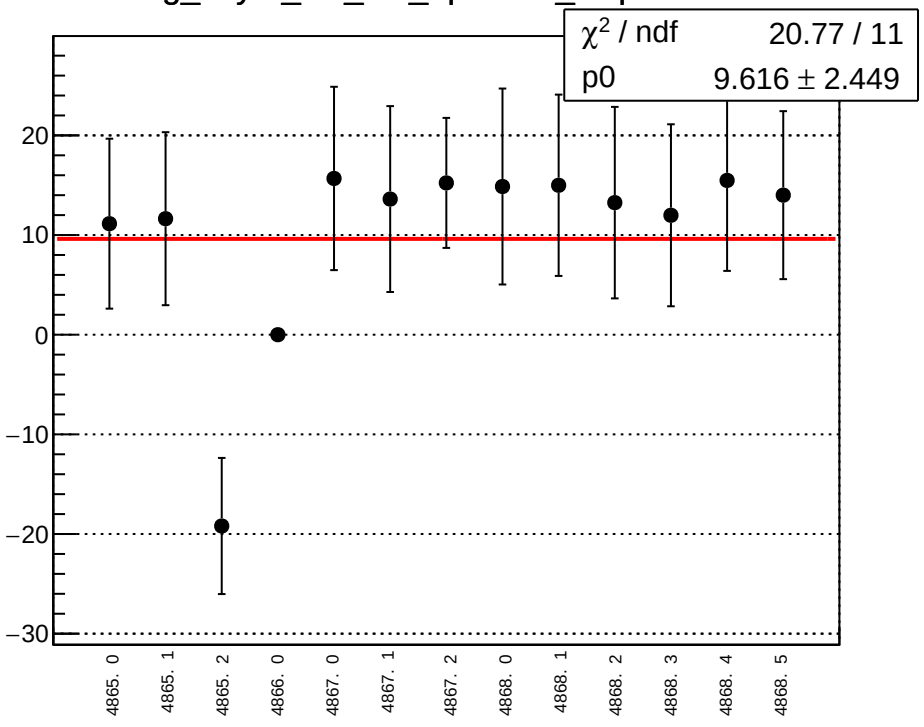
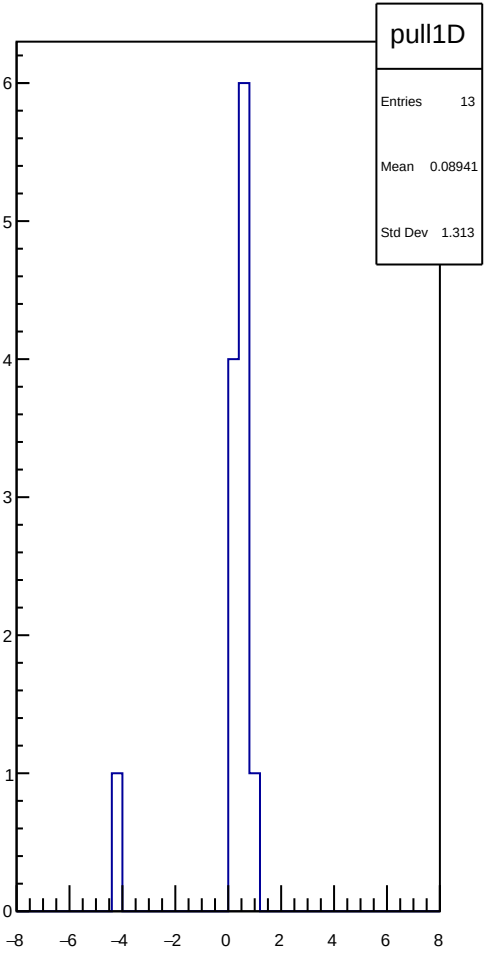
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 20.77 / 11
p0 9.616 ± 2.449
20
10
0
−10
−20
−30
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.08941
Std Dev 1.313
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5
4
3
2
1
0
−8
−6
−4
−2
0
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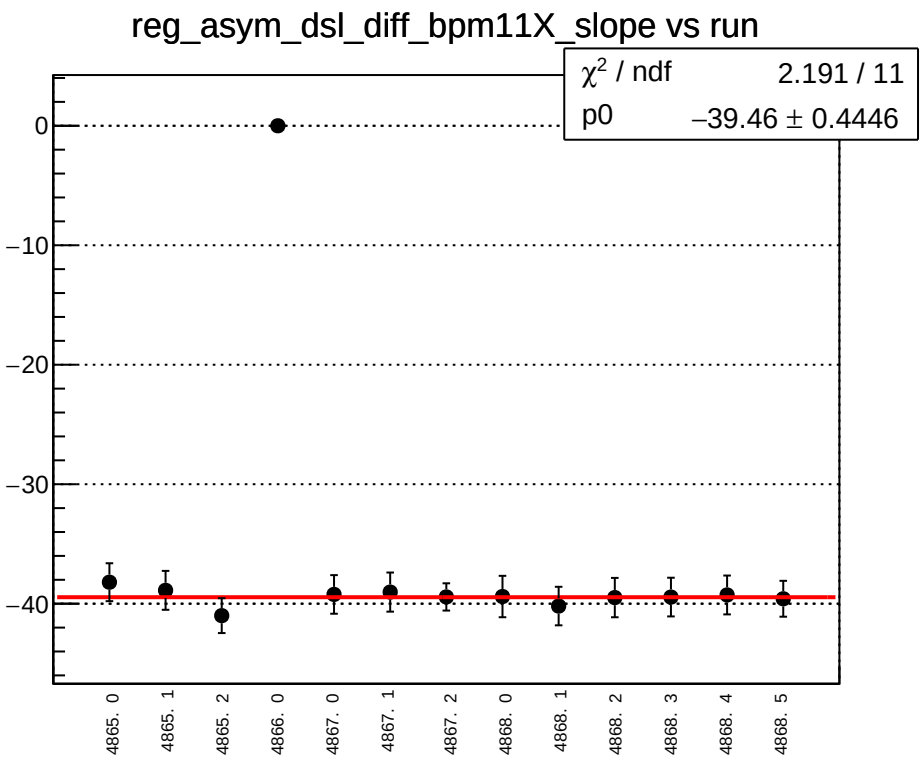
4
6
8


reg_asym_dsl_diff_bpm11X_slope vs run
χ² / ndf 2.191 / 11
p0 −39.46 ± 0.4446
0
−10
−20
−30
−40
4865. 0
4865. 1
4865. 2
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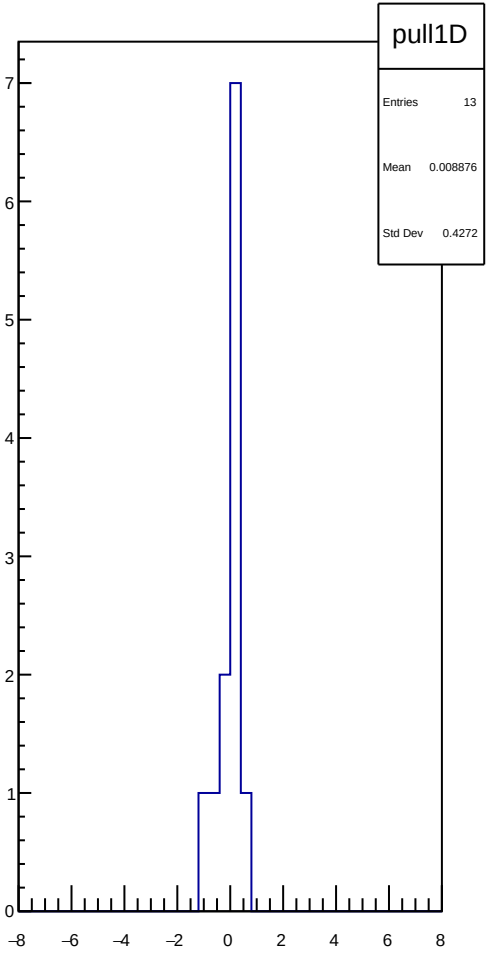
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.008876
Std Dev 0.4272
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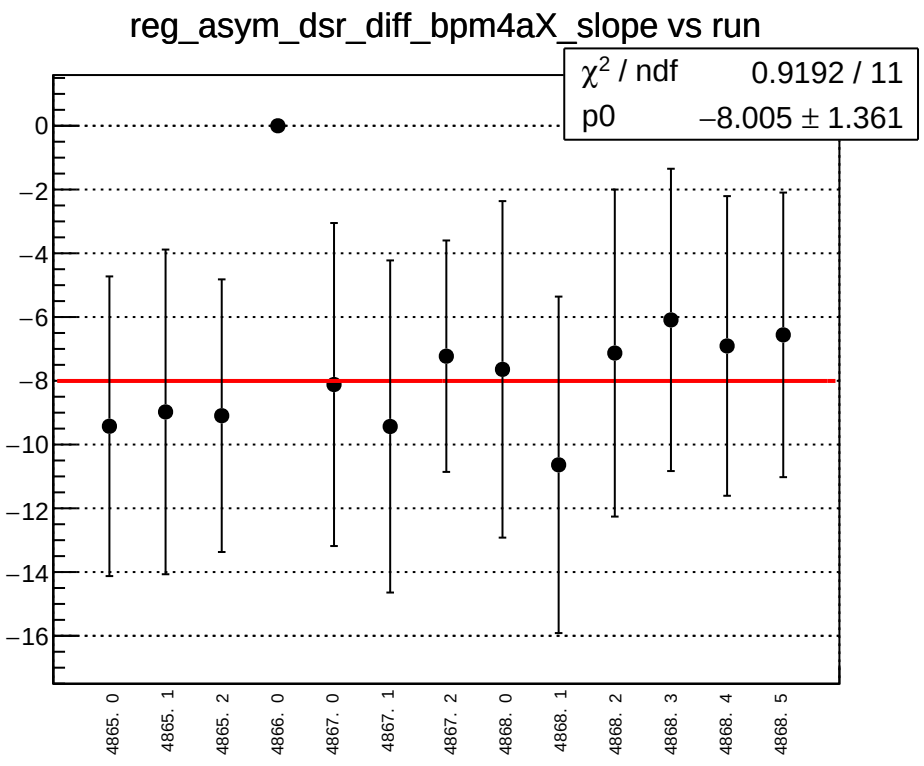
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 0.9192 / 11
p0 −8.005 ± 1.361
0
−2
−4
−6
−8
−10
−12
−14
−16
4865. 0
4865. 1
4865. 2
4866. 0
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4867. 1
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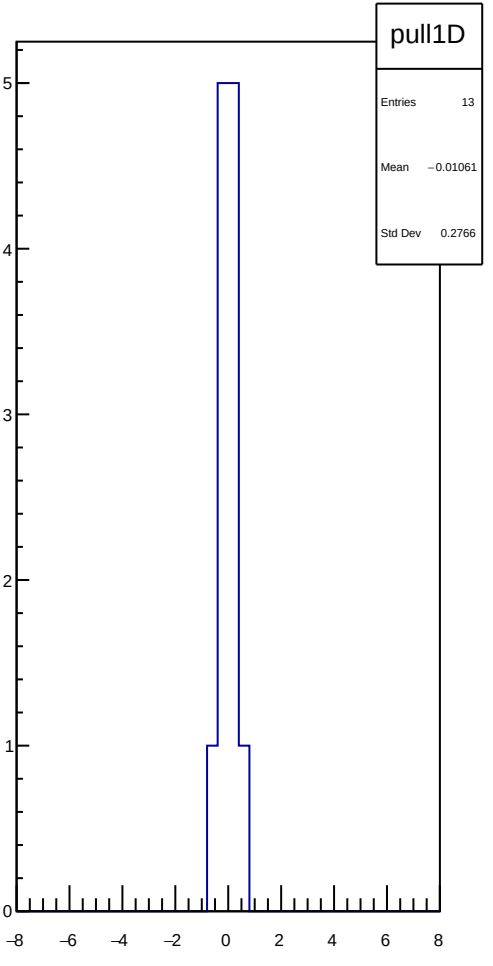
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.01061
Std Dev 0.2766
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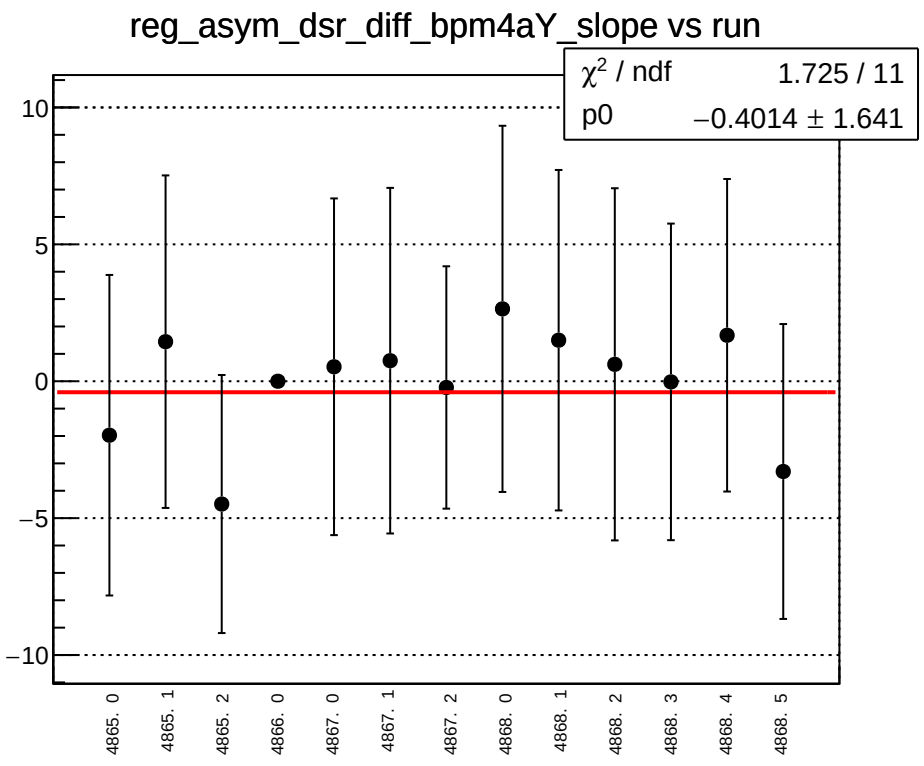
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 1.725 / 11
p0 −0.4014 ± 1.641
10
5
0
−5
−10
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
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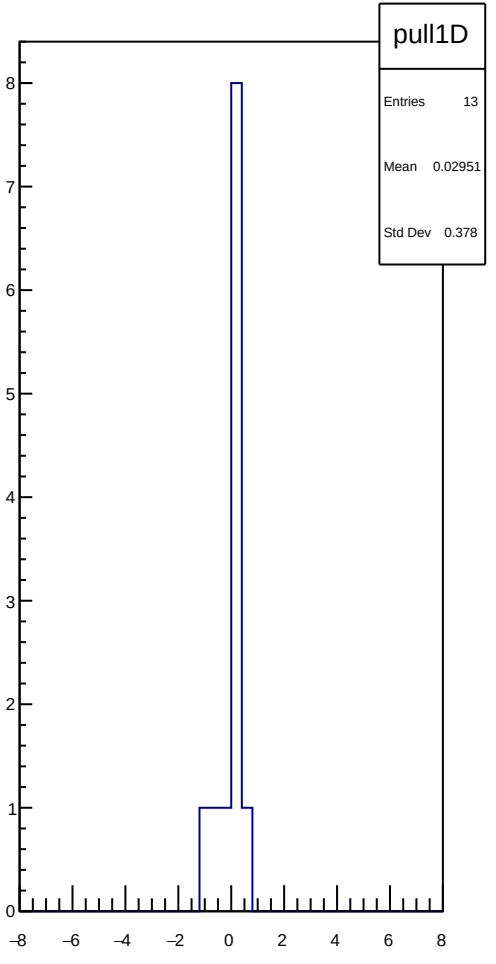
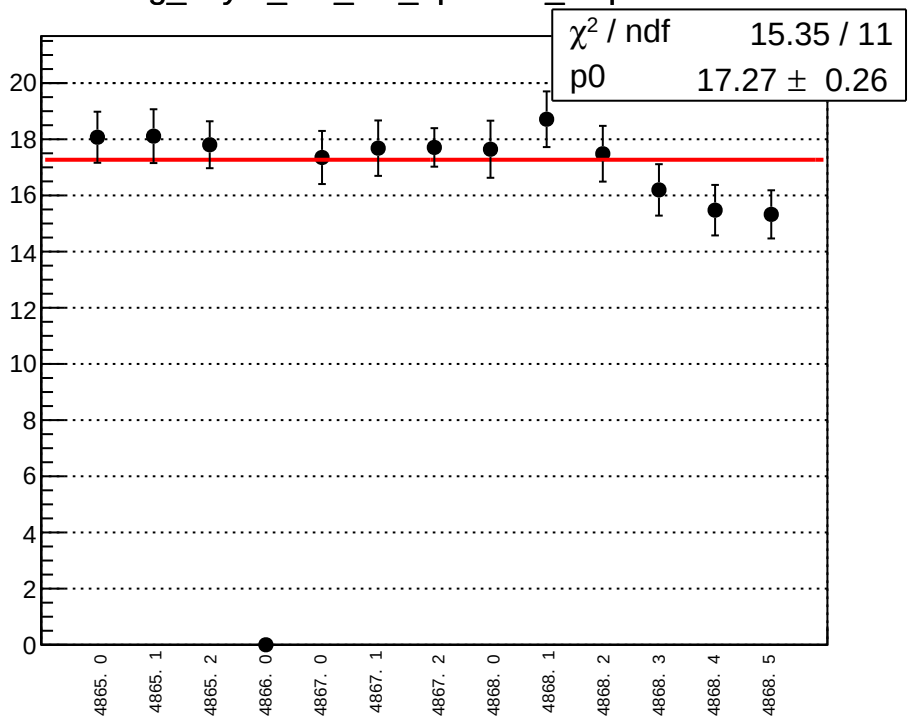
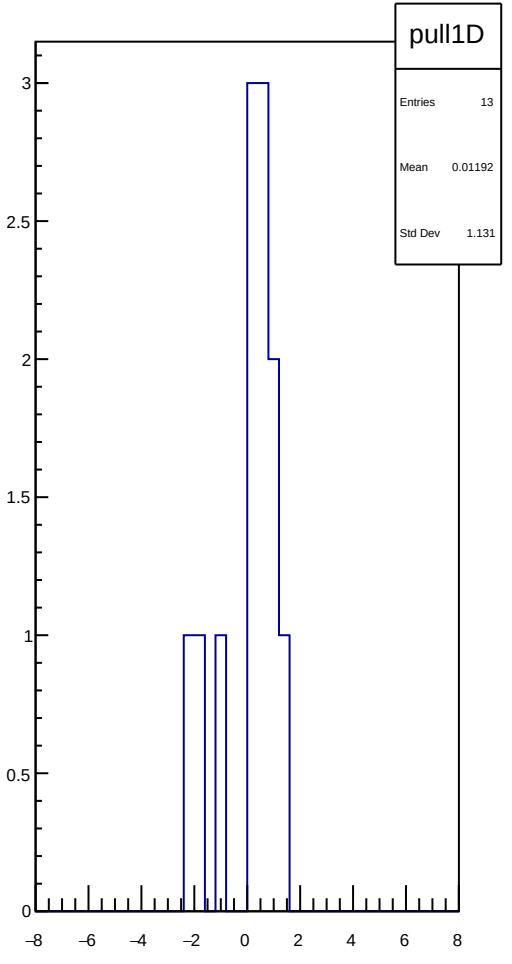
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.02951
Std Dev 0.378
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_dsr_diff_bpm4eX_slope vs run
χ2 / ndf 15.35 / 11
p0 17.27 ± 0.26
0
2
4
6
8
10
12
14
16
18
20
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.01192
Std Dev 1.131
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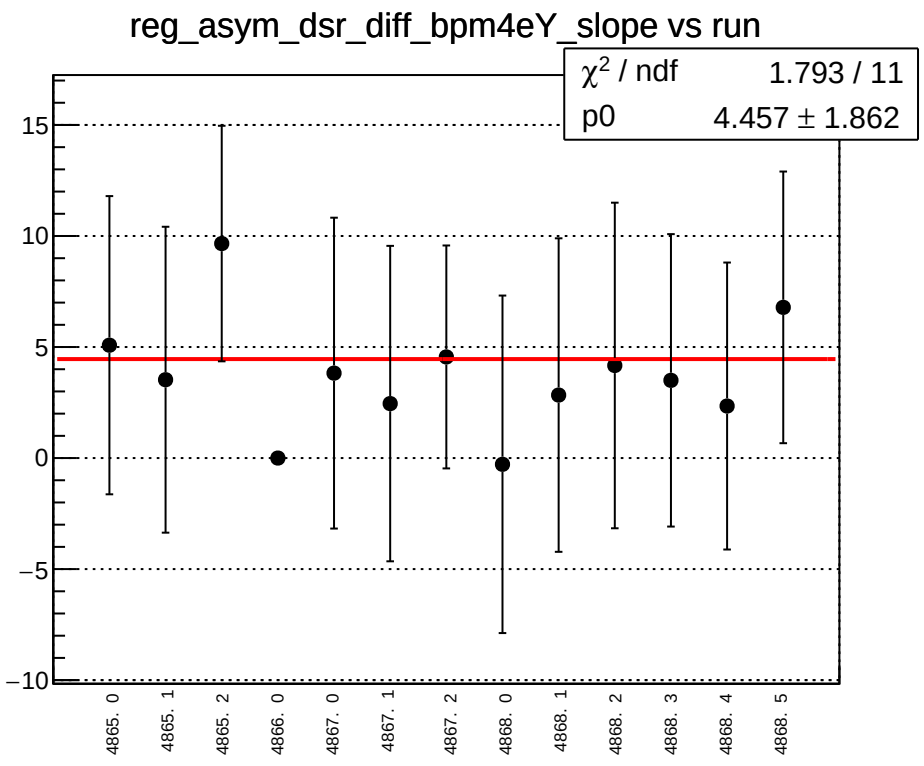
0.5
1
1.5
2
2.5
3
−8
−6
−4
−2
0
2
4
6
8


reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 1.793 / 11
p0 4.457 ± 1.862
15
10
5
0
−5
−10
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
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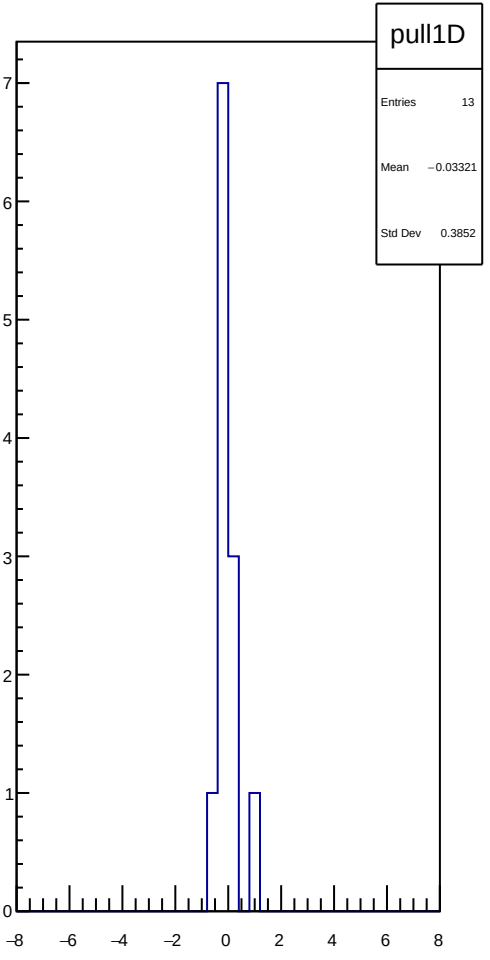
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.03321
Std Dev 0.3852
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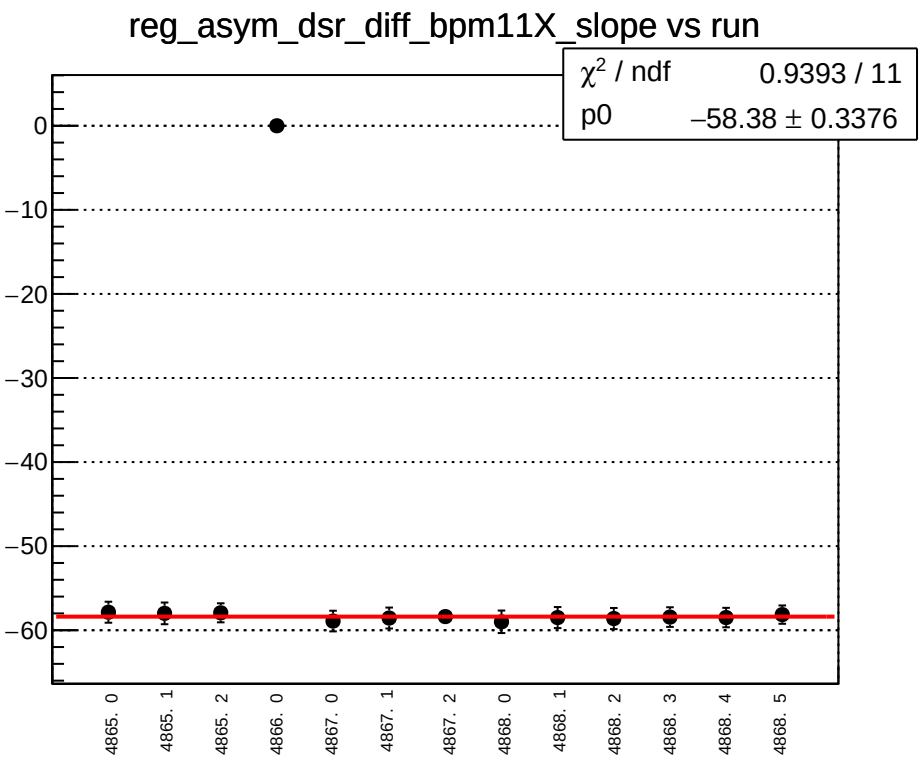
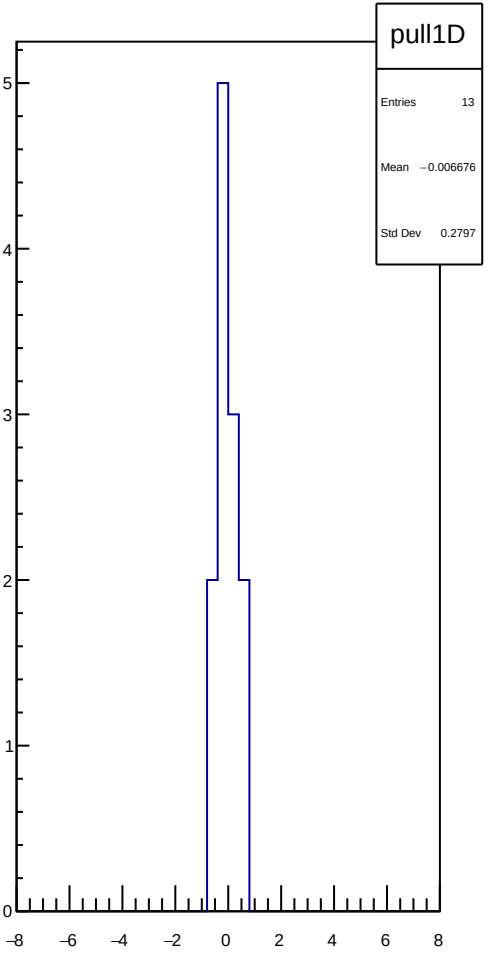
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_dsr_diff_bpm11X_slope vs run
χ² / ndf 0.9393 / 11
p0 −58.38 ± 0.3376
0
−10
−20
−30
−40
−50
−60
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.006676
Std Dev 0.2797
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4
3
2
1
0
−8
−6
−4
−2
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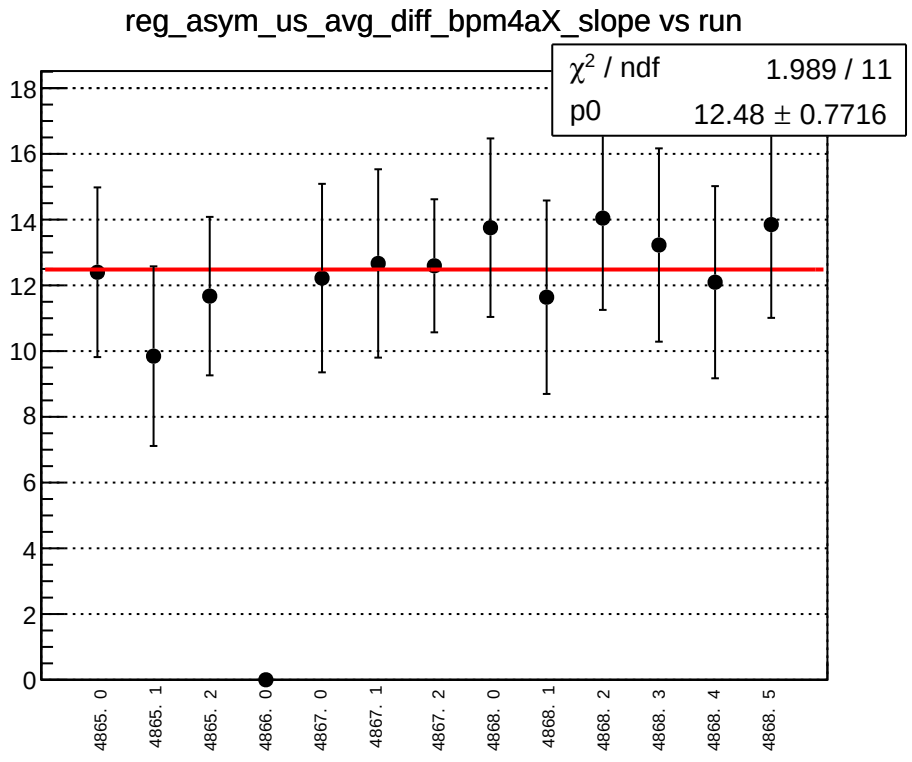
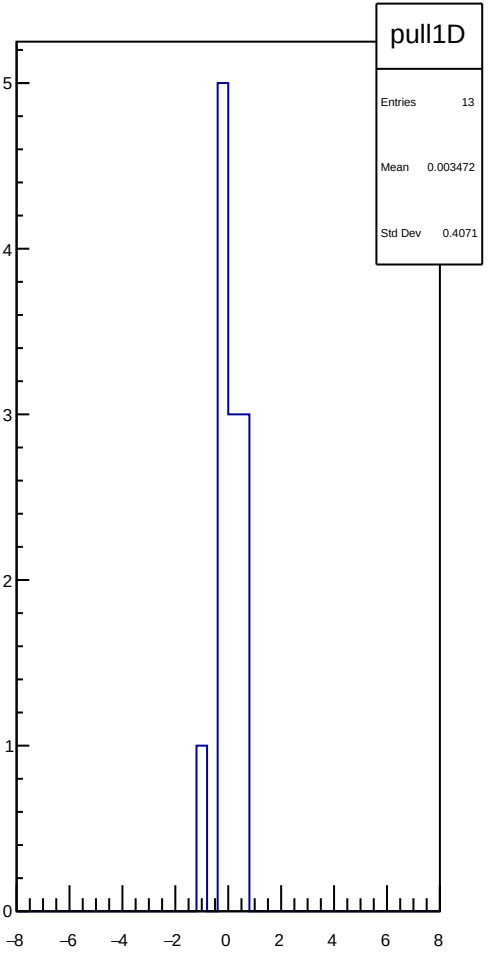
2
4
6
8


reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 1.989 / 11
p0 12.48 ± 0.7716
18
16
14
12
10
8
6
4
2
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.003472
Std Dev 0.4071
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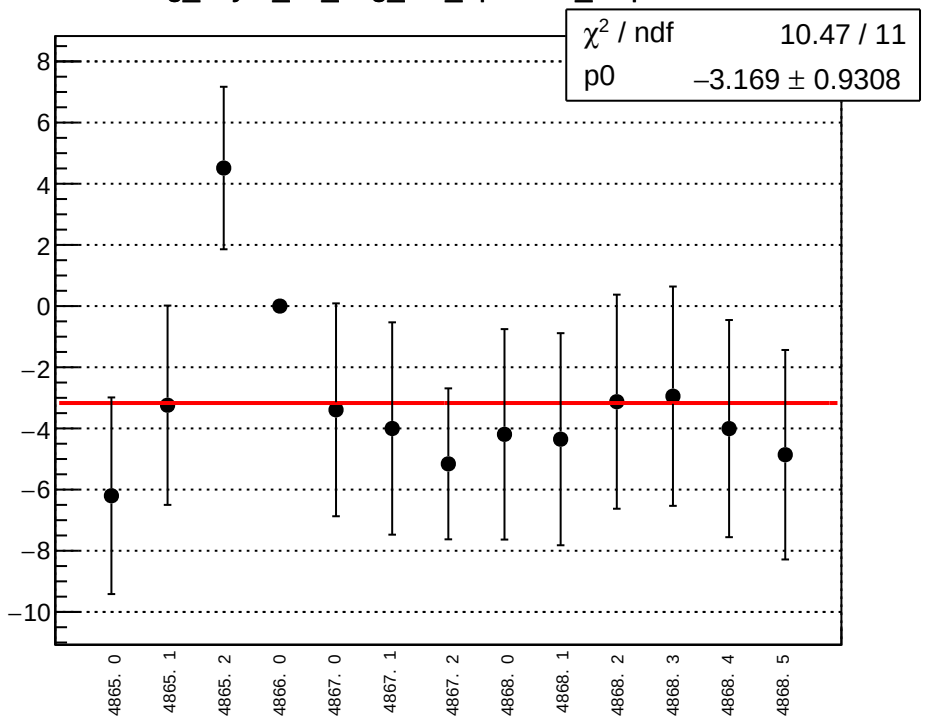
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.47 / 11
p0 −3.169 ± 0.9308
8
6
4
2
0
−2
−4
−6
−8
−10
4865. 0
4865. 1
4865. 2
4866. 0
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4867. 1
4867. 2
4868. 0
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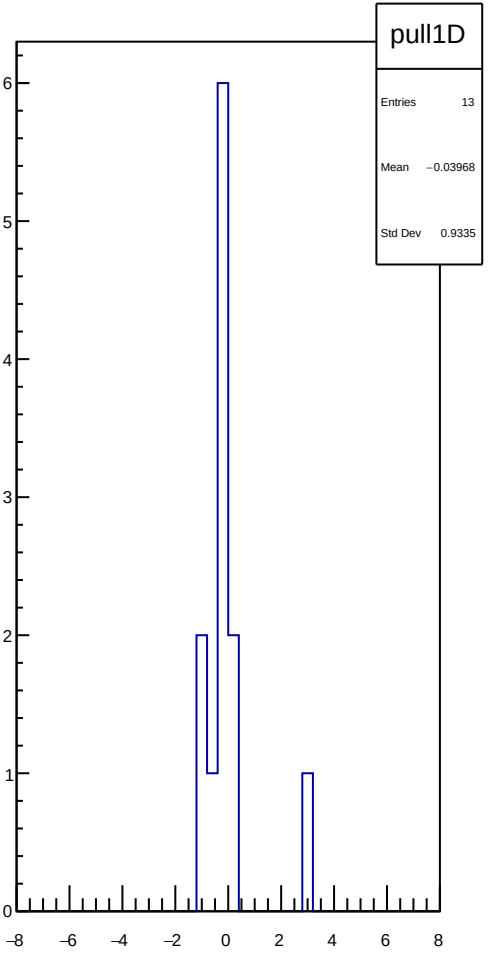
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.03968
Std Dev 0.9335
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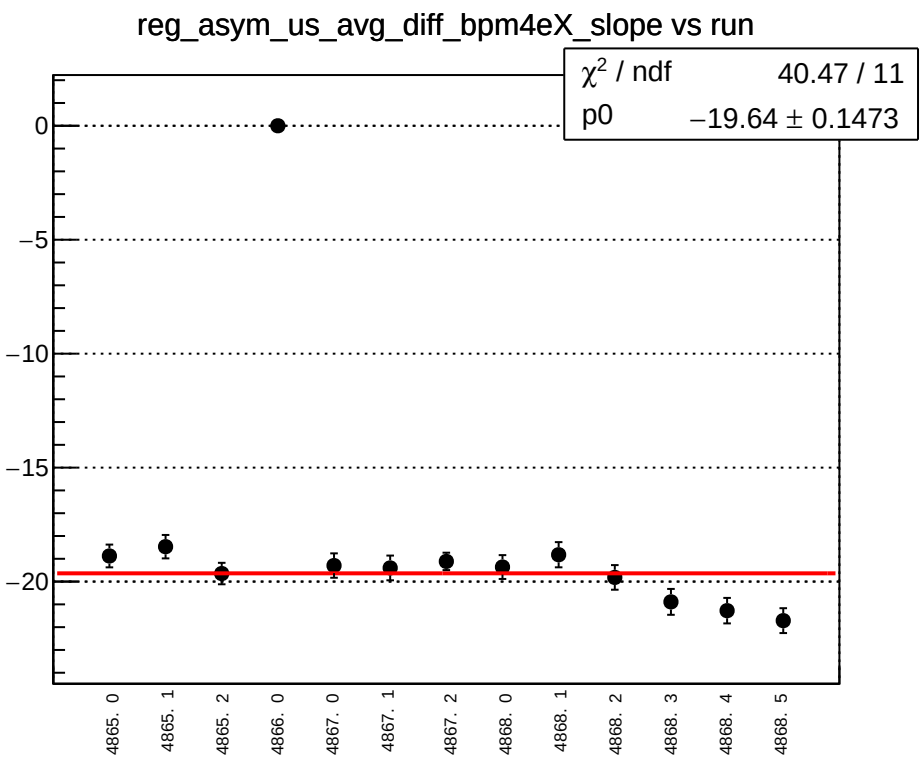
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 40.47 / 11
p0 −19.64 ± 0.1473
0
−5
−10
−15
−20
4865. 0
4865. 1
4865. 2
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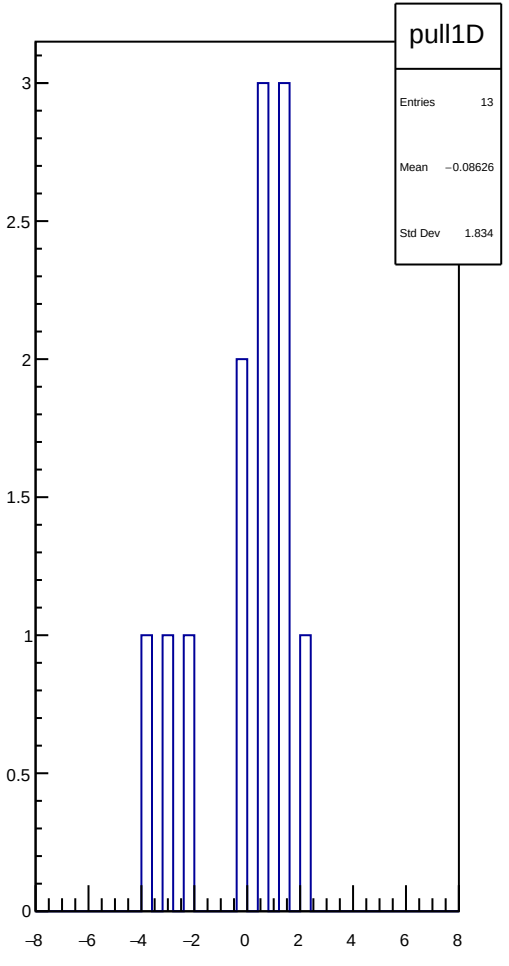
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.08626
Std Dev 1.834
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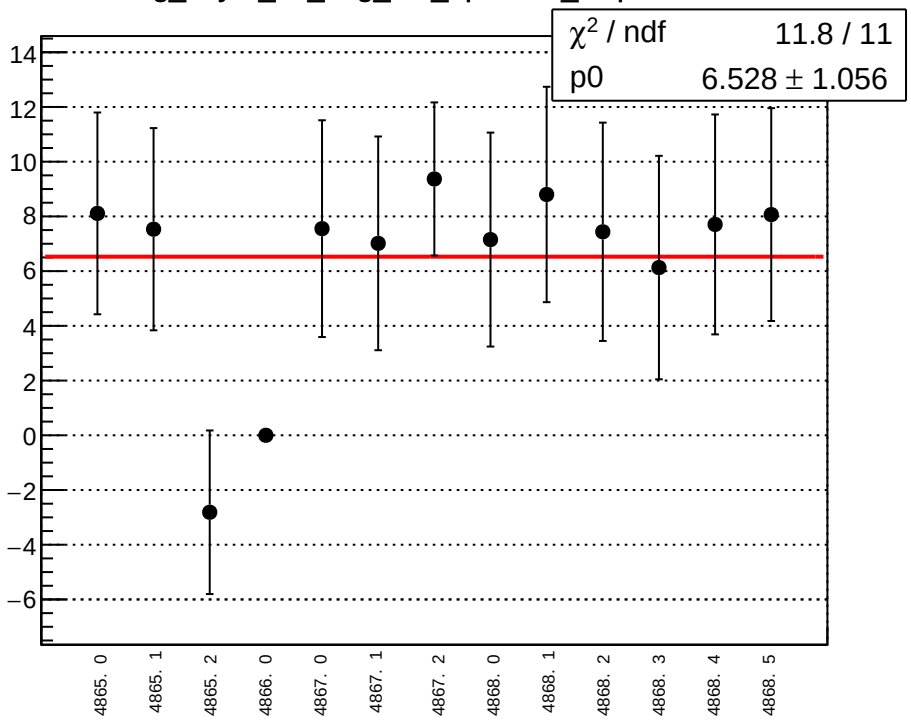
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.8 / 11
p0 6.528 ± 1.056
14
12
10
8
6
4
2
0
−2
−4
−6
4865. 0
4865. 1
4865. 2
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4867. 1
4867. 2
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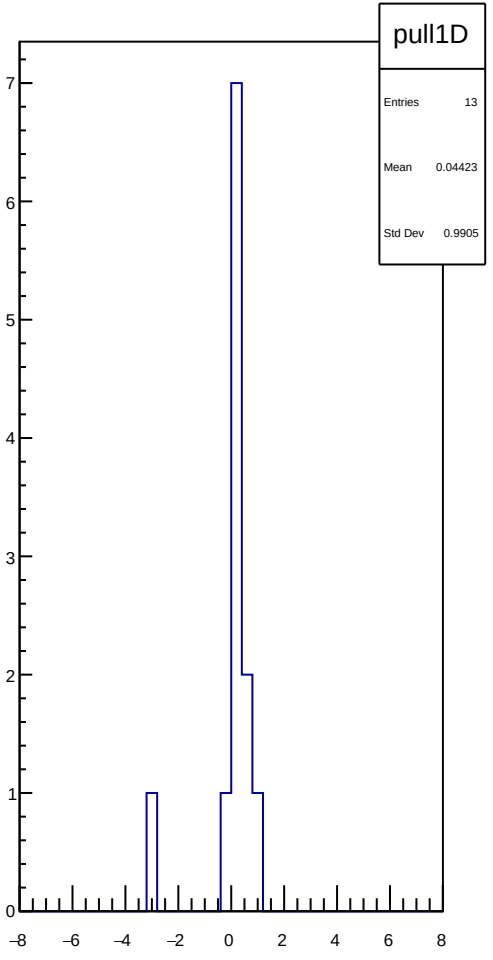
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.04423
Std Dev 0.9905
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4
3
2
1
0
−8
−6
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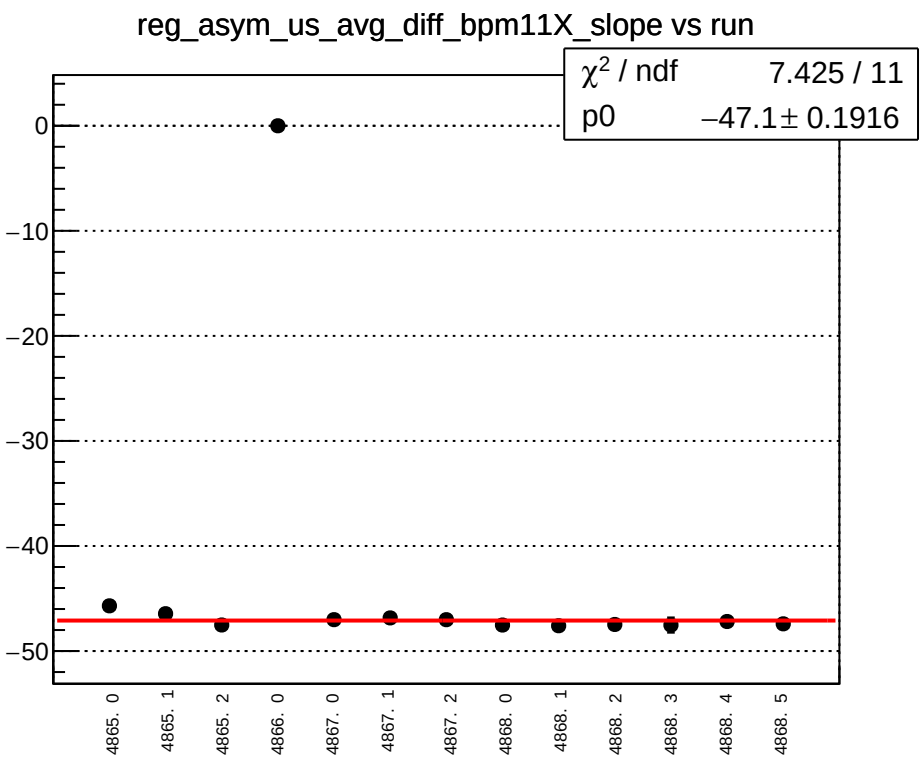
0
2
4
6
8


reg_asym_us_avg_diff_bpm11X_slope vs run
χ² / ndf 7.425 / 11
p0 −47.1 ± 0.1916
0
−10
−20
−30
−40
−50
4865. 0
4865. 1
4865. 2
4866. 0
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4867. 1
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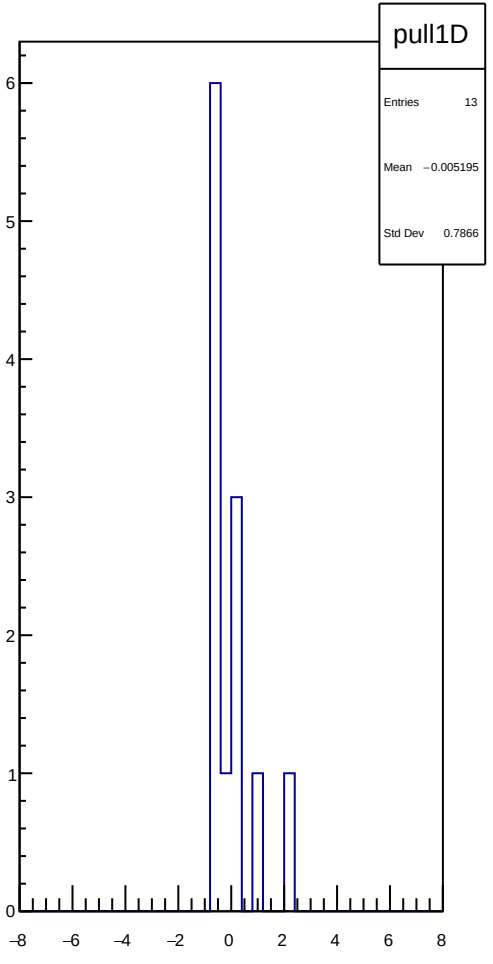
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.005195
Std Dev 0.7866
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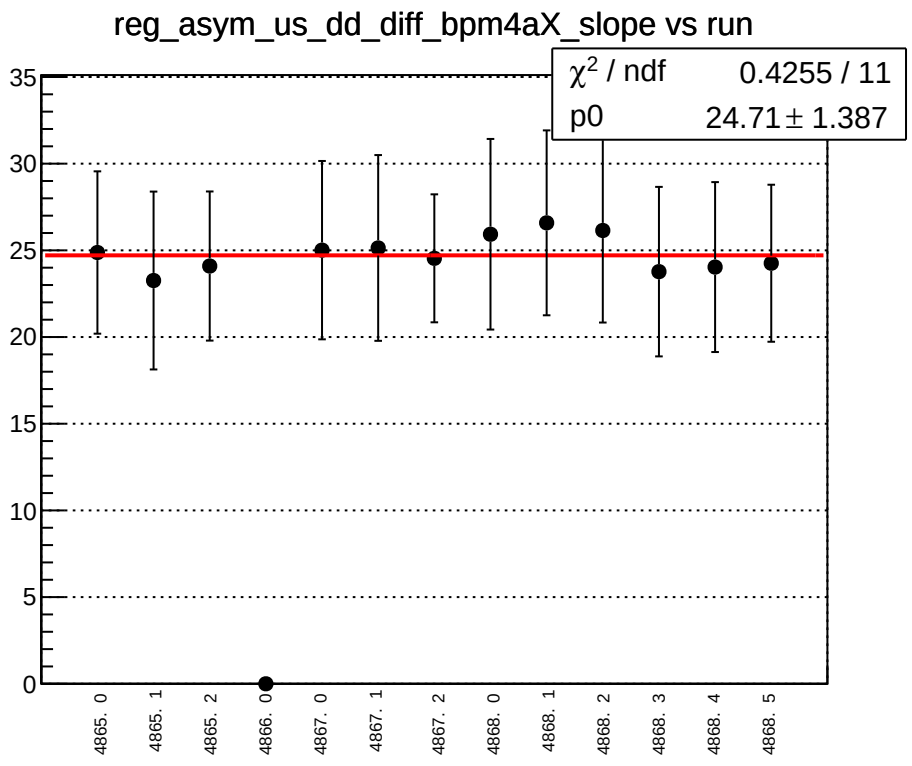
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.4255 / 11
p0 24.71 ± 1.387
35
30
25
20
15
10
5
0
4865. 0
4865. 1
4865. 2
4866. 0
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4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
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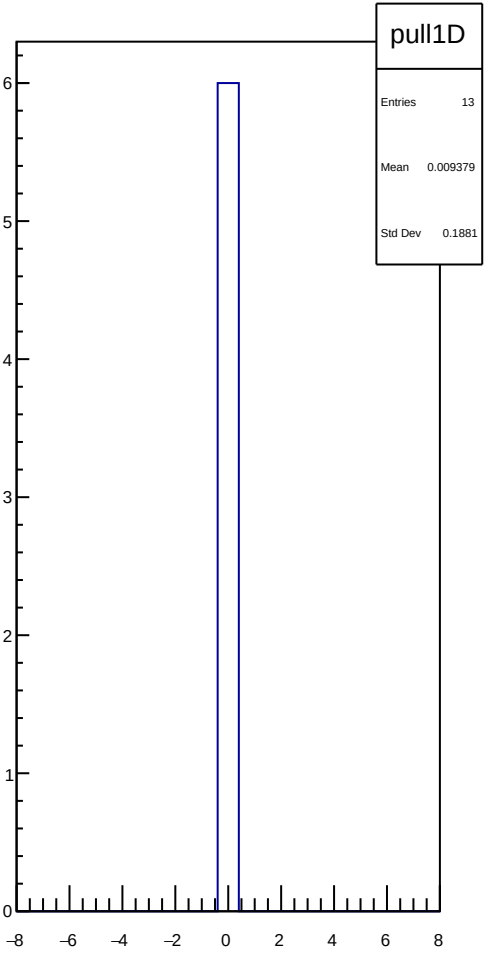
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.009379
Std Dev 0.1881
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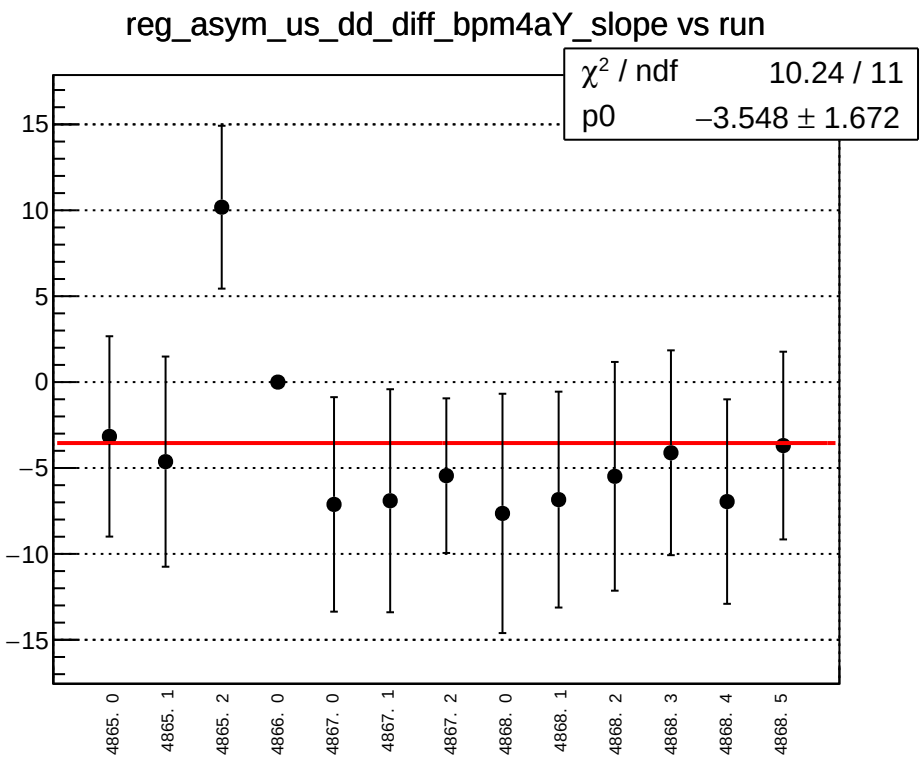
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.24 / 11
p0 −3.548 ± 1.672
15
10
5
0
−5
−10
−15
4865. 0
4865. 1
4865. 2
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4867. 1
4867. 2
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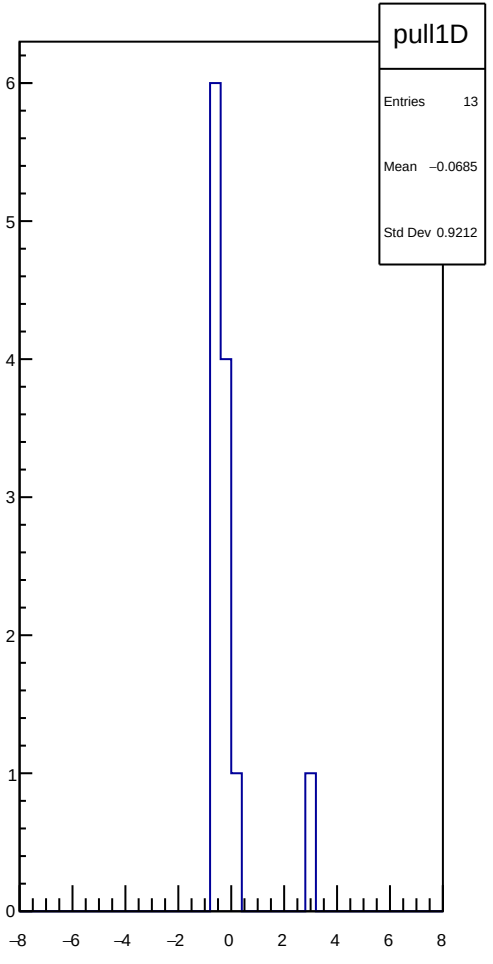
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.0685
Std Dev 0.9212
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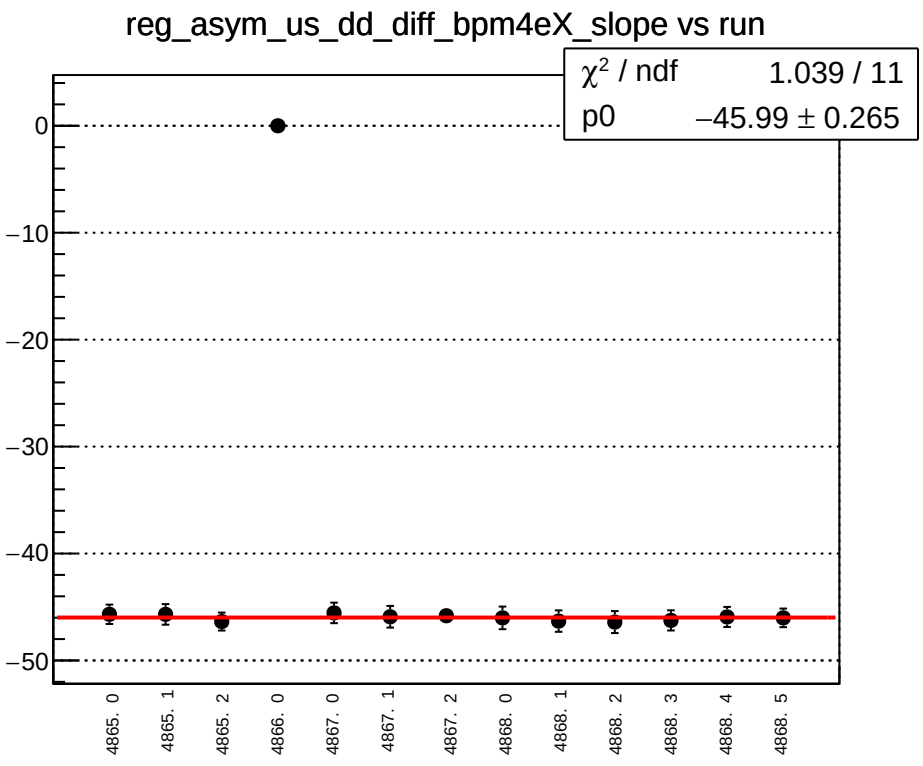
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.039 / 11
p0 −45.99 ± 0.265
0
−10
−20
−30
−40
−50
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
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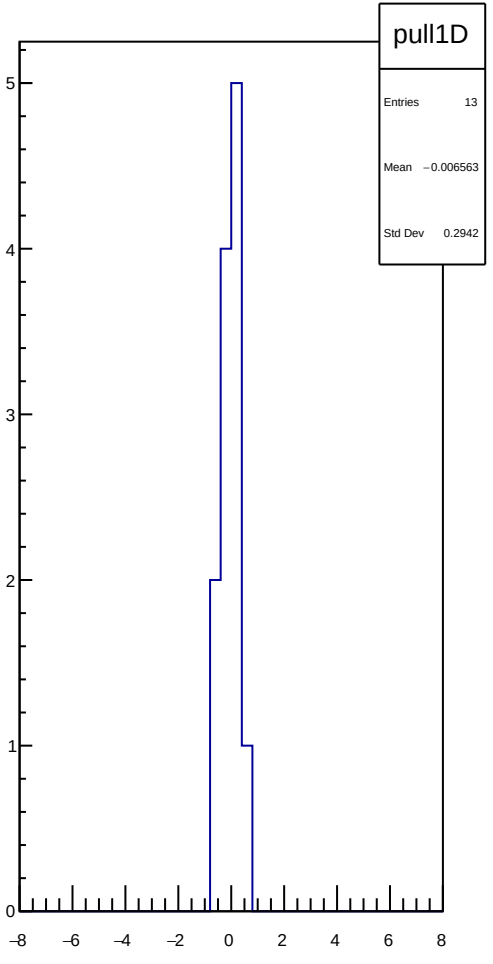
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.006563
Std Dev 0.2942
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4
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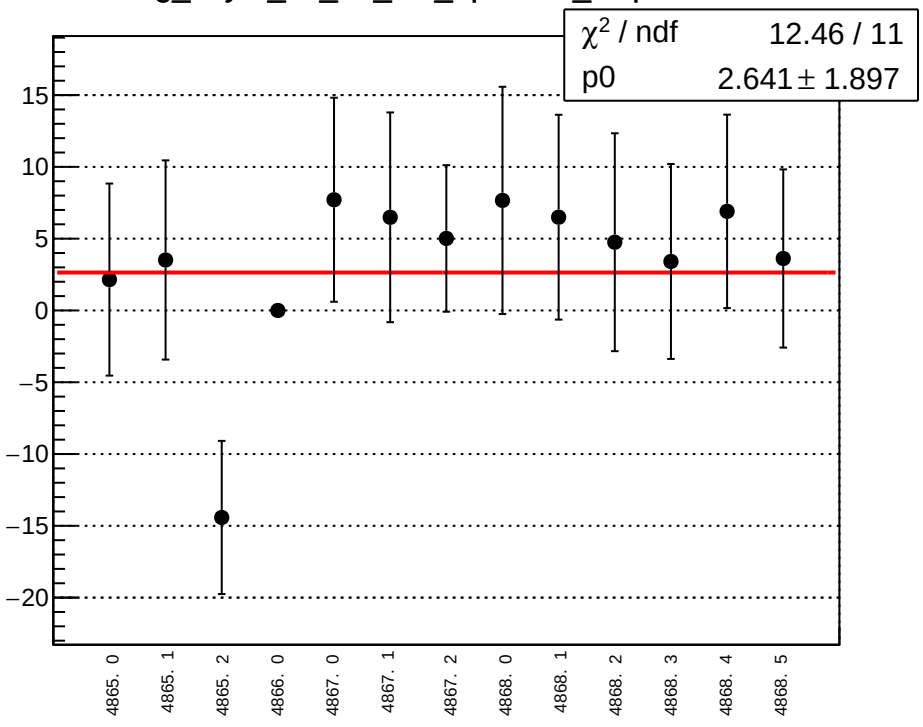
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.46 / 11
p0 2.641 ± 1.897
15
10
5
0
−5
−10
−15
−20
4865. 0
4865. 1
4865. 2
4866. 0
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4867. 1
4867. 2
4868. 0
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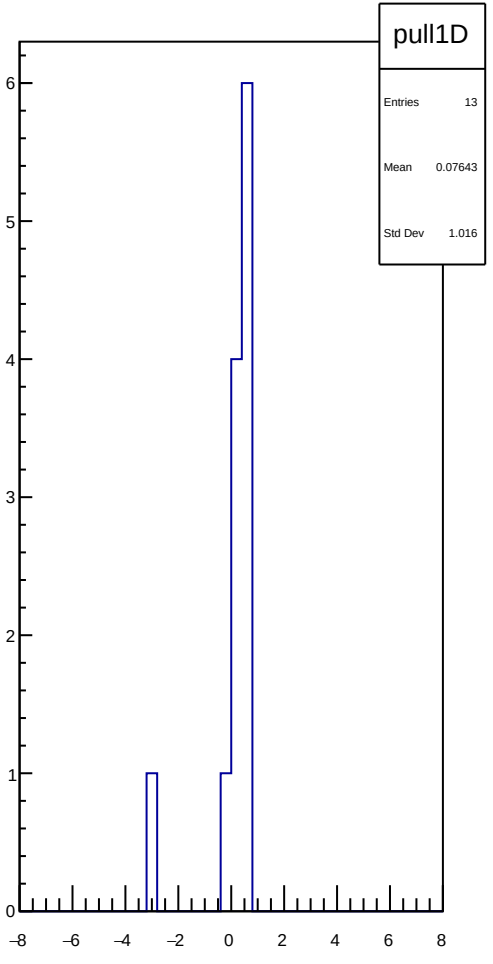
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.07643
Std Dev 1.016
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5
4
3
2
1
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−8
−6
−4
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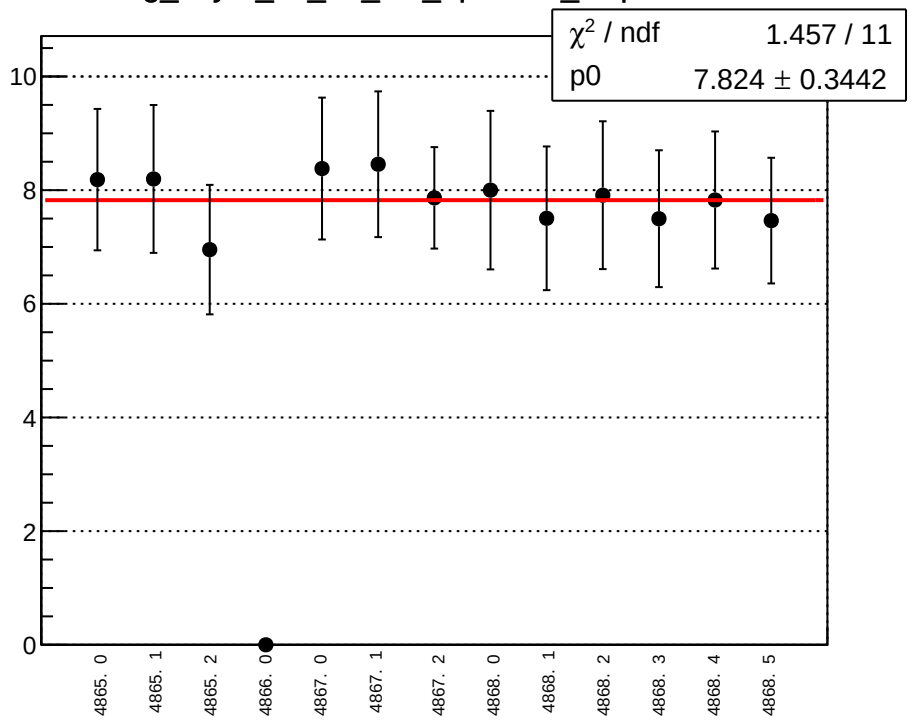
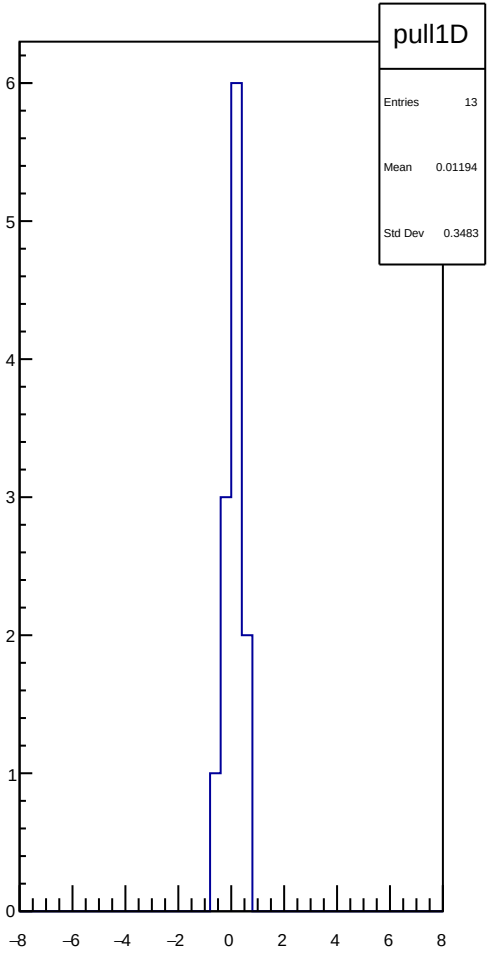
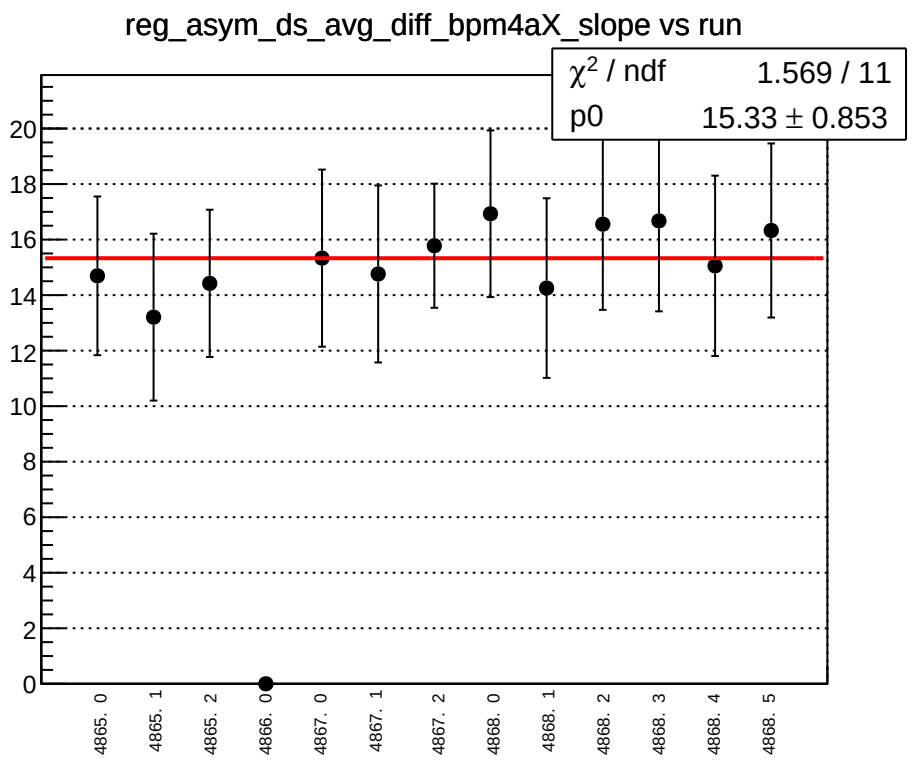
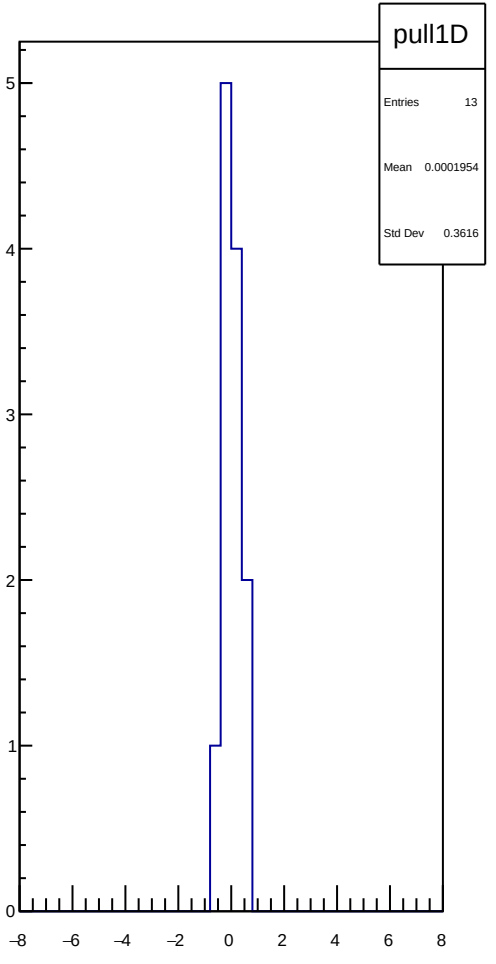
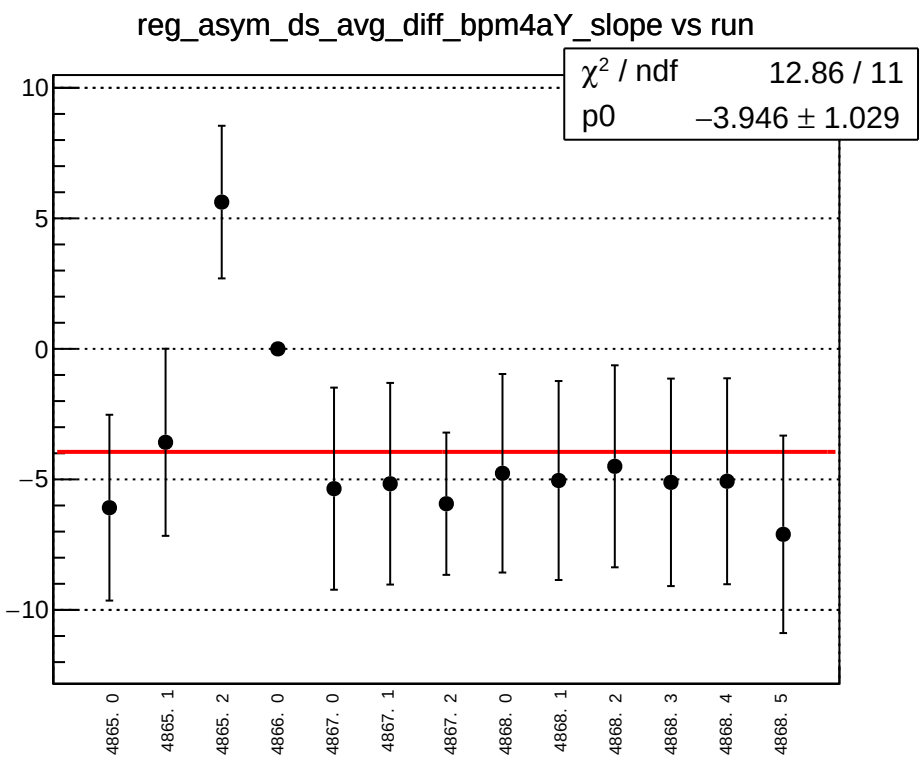
0
2
4
6
8


reg_asym_us_dd_diff_bpm11X_slope vs run
χ² / ndf 1.457 / 11
p0 7.824 ± 0.3442
10
8
6
4
2
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.01194
Std Dev 0.3483
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 1.569 / 11
p0 15.33 ± 0.853
0
2
4
6
8
10
12
14
16
18
20
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.0001954
Std Dev 0.3616
0
1
2
3
4
5
−8
−6
−4
−2
0
2
4
6
8


reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.86 / 11
p0 −3.946 ± 1.029
10
5
0
−5
−10
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
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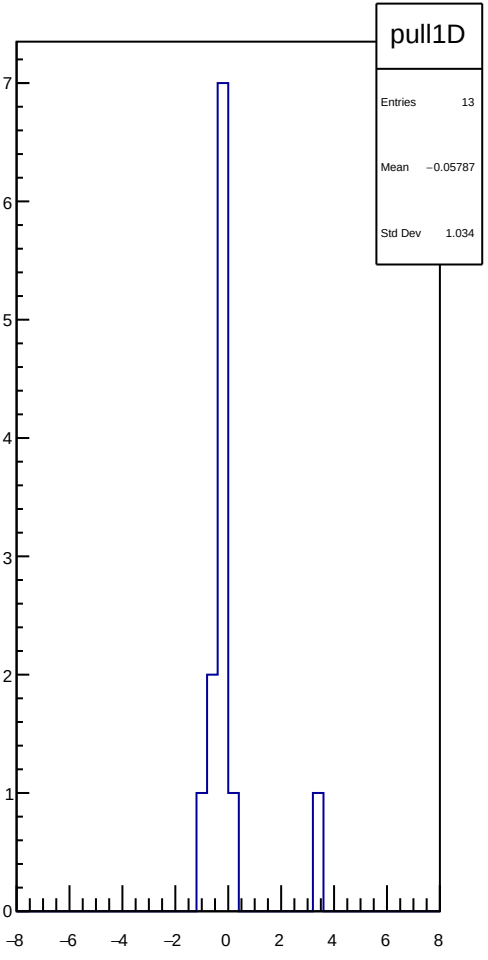
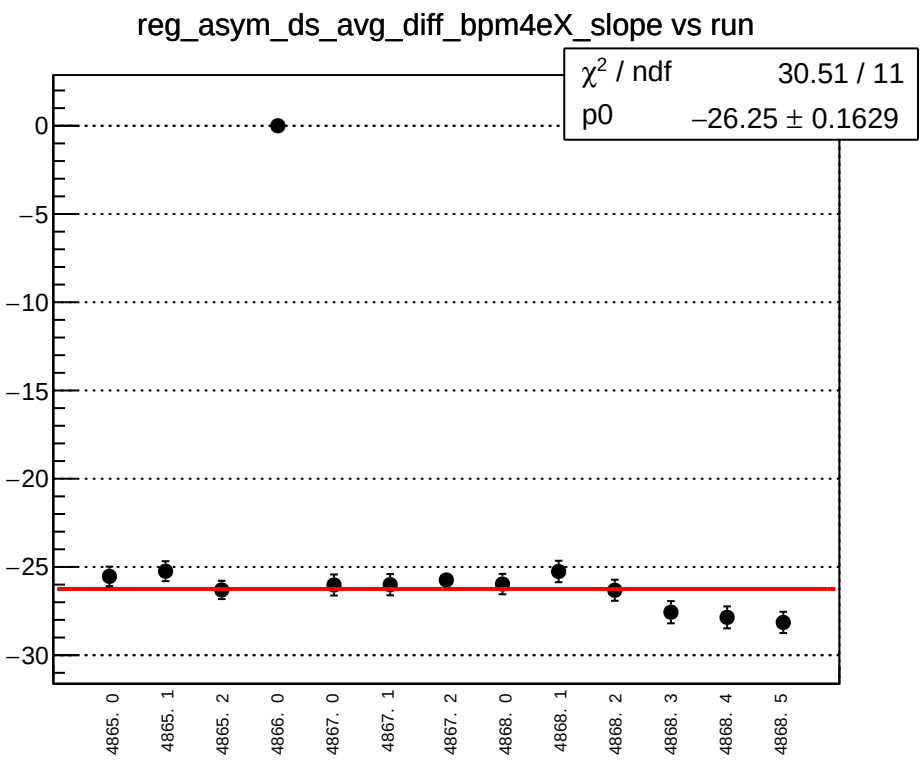
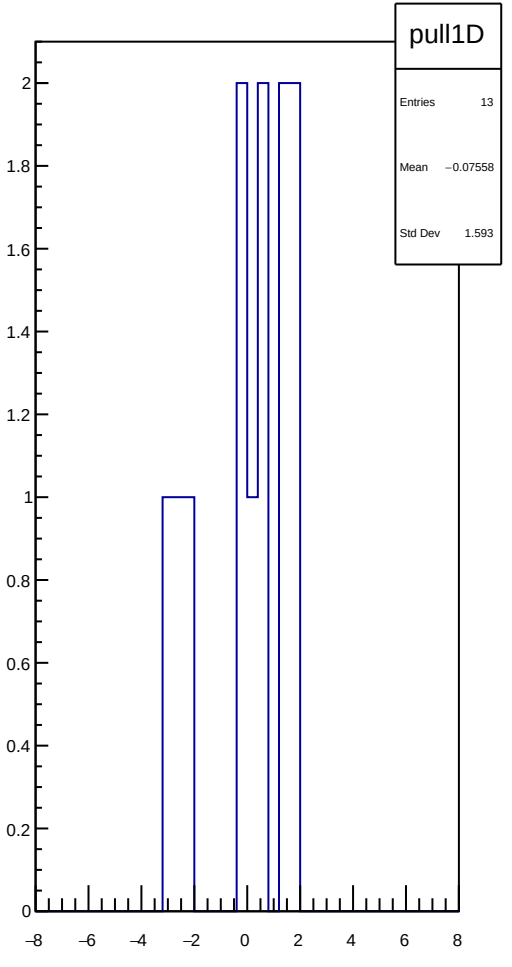
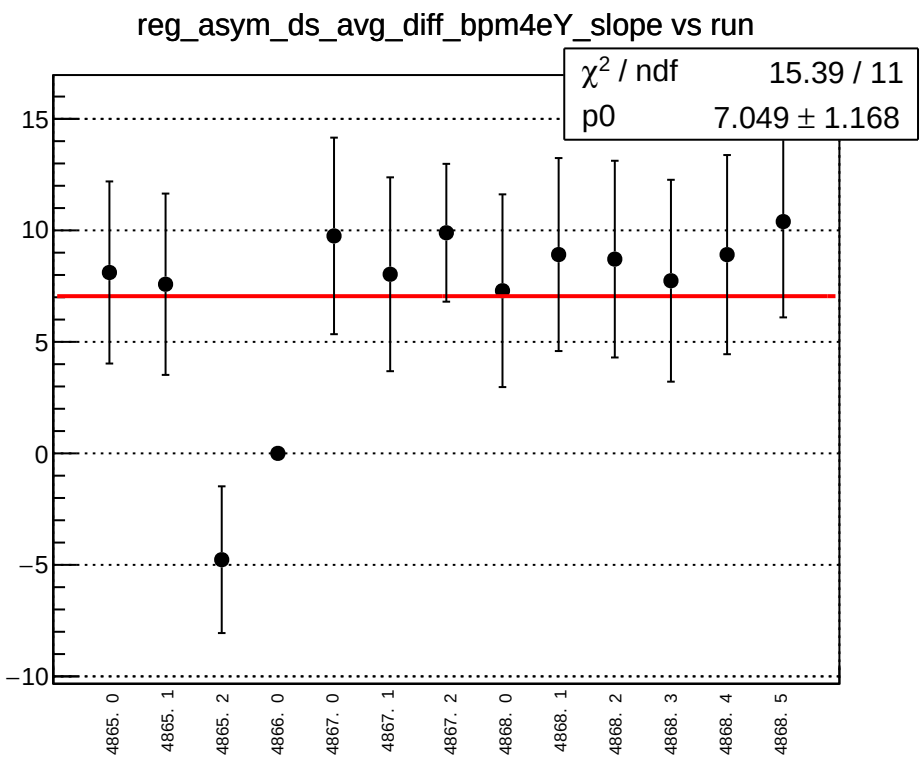
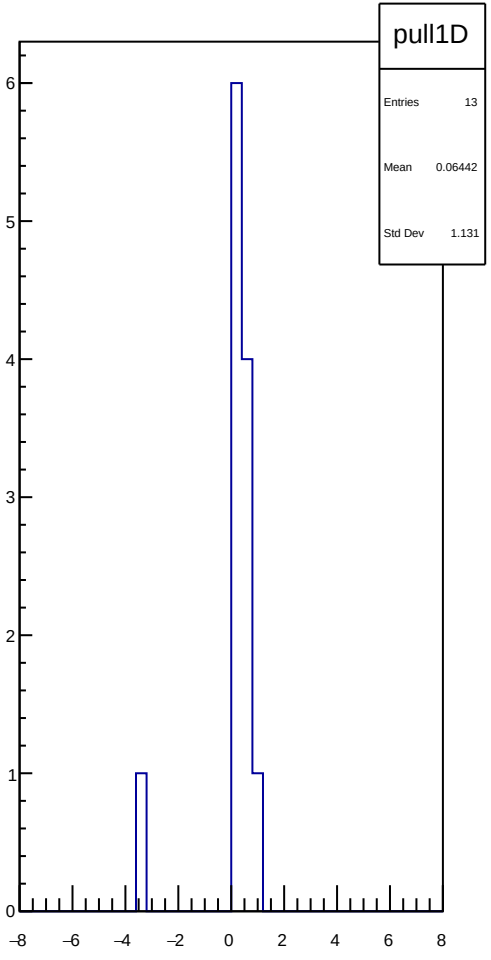
4868. 4
4868. 5

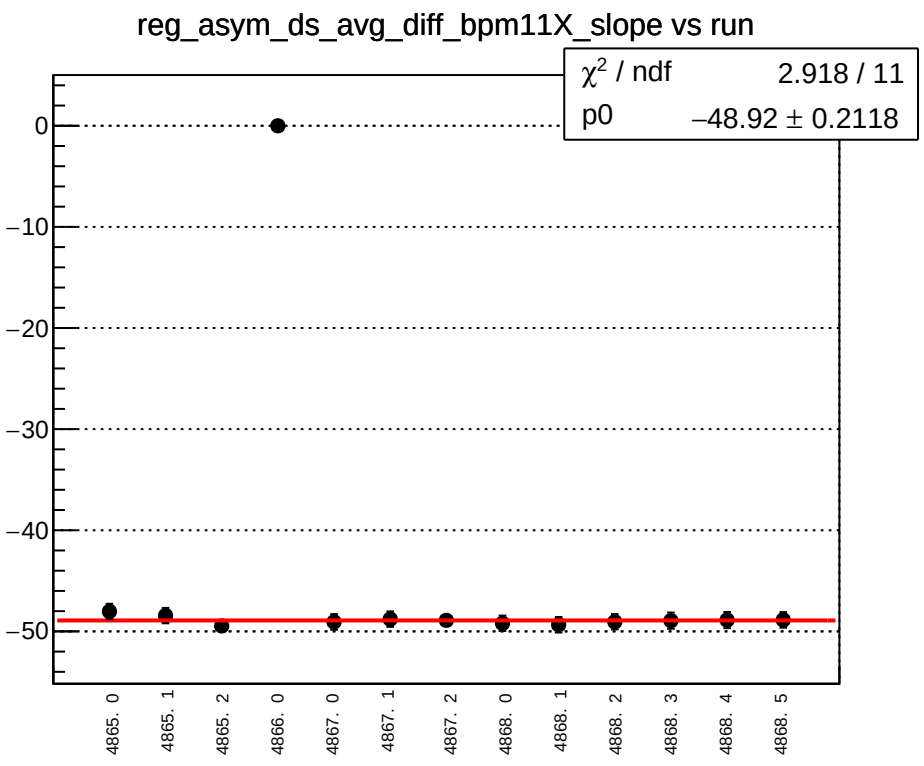

pull1D
Entries 13
Mean −0.05787
Std Dev 1.034
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

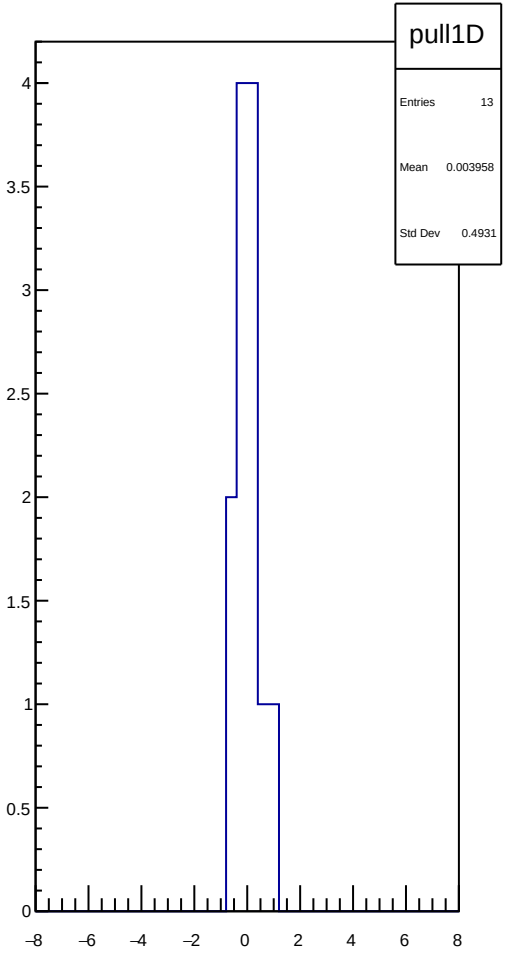

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 30.51 / 11
p0 −26.25 ± 0.1629
0
−5
−10
−15
−20
−25
−30
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

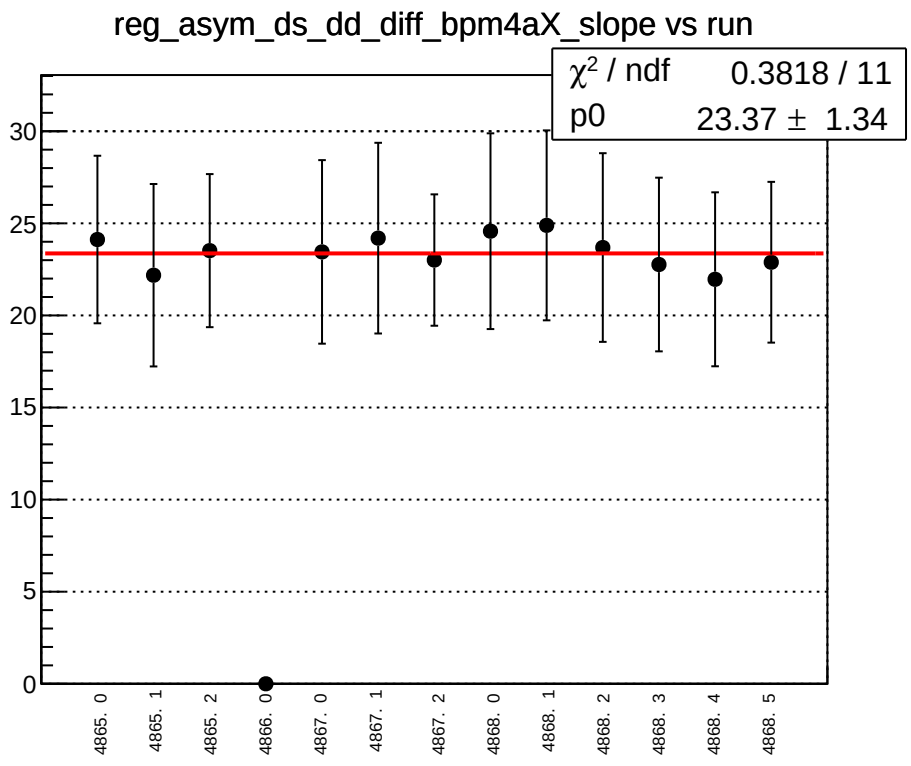

pull1D
Entries 13
Mean −0.07558
Std Dev 1.593
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

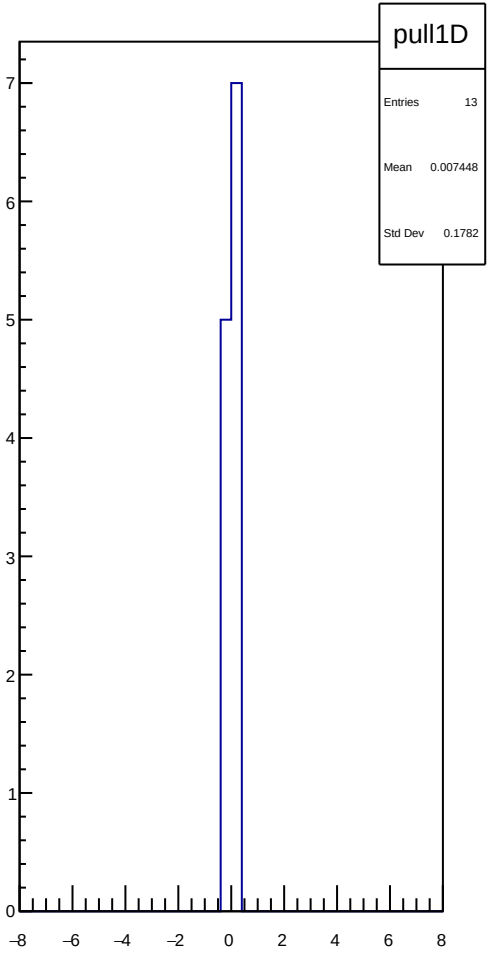

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.39 / 11
p0 7.049 ± 1.168
15
10
5
0
−5
−10
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

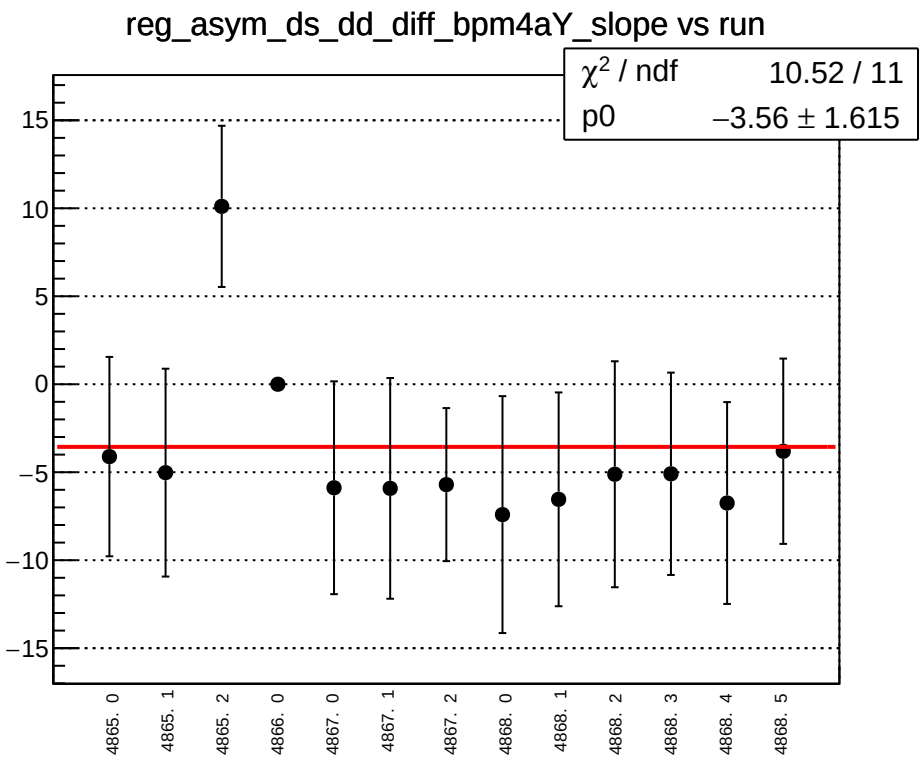

pull1D
Entries 13
Mean 0.06442
Std Dev 1.131
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

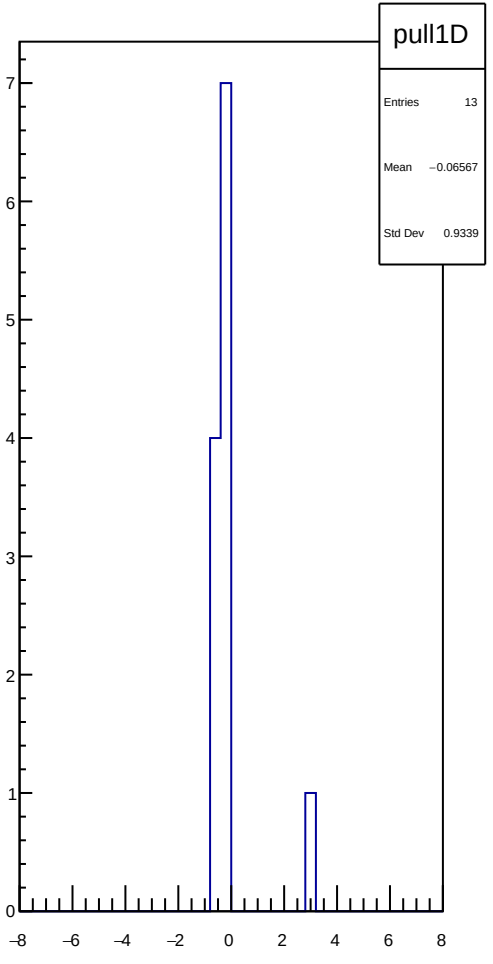

reg_asym_ds_avg_diff_bpm11X_slope vs run
χ² / ndf 2.918 / 11
p0 −48.92 ± 0.2118
0
−10
−20
−30
−40
−50
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.003958
Std Dev 0.4931
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.3818 / 11
p0 23.37 ± 1.34
30
25
20
15
10
5
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.007448
Std Dev 0.1782
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.52 / 11
p0 −3.56 ± 1.615
15
10
5
0
−5
−10
−15
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.06567
Std Dev 0.9339
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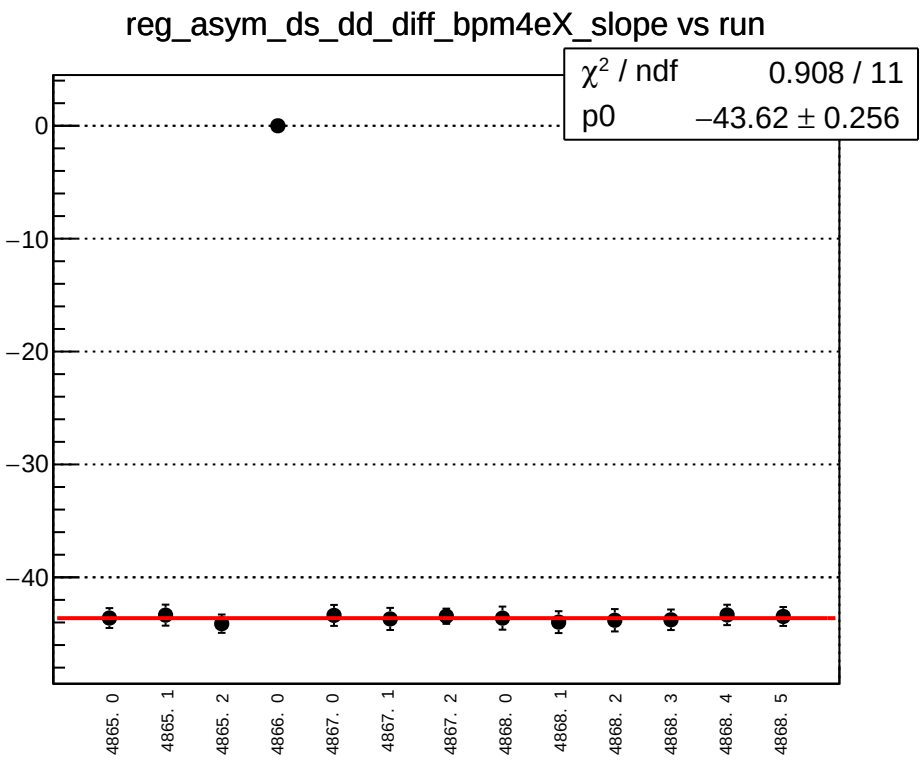
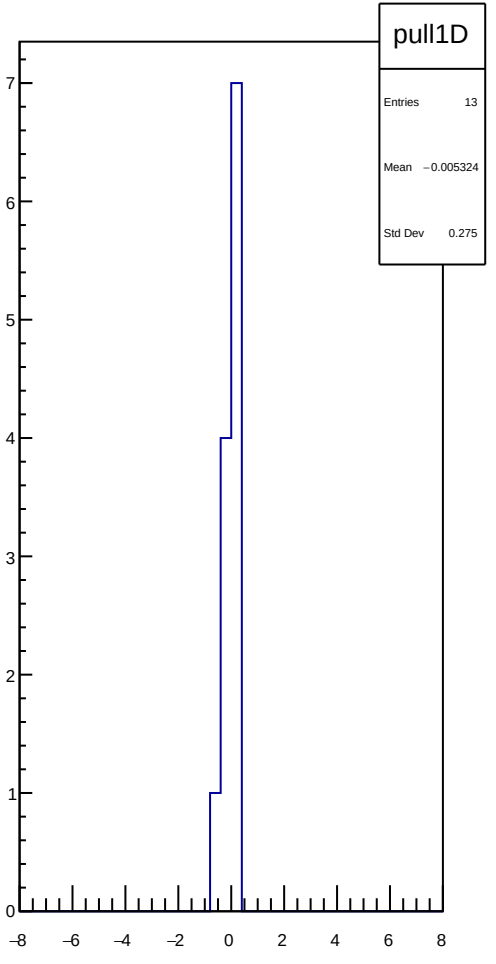
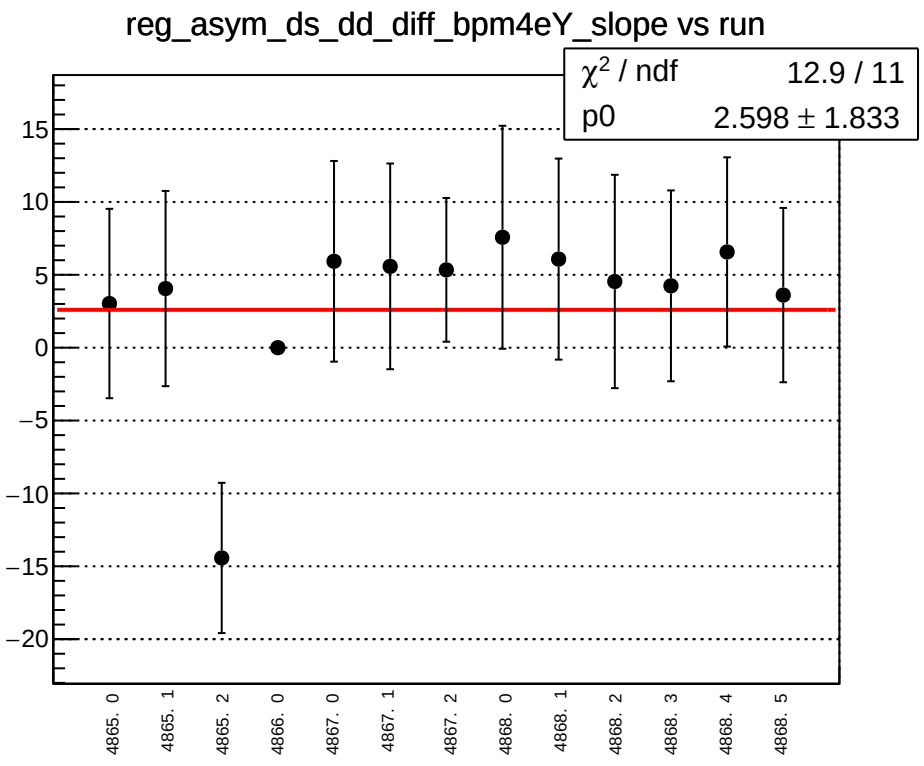
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.908 / 11
p0 −43.62 ± 0.256
0
−10
−20
−30
−40
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.005324
Std Dev 0.275
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.9 / 11
p0 2.598 ± 1.833
15
10
5
0
−5
−10
−15
−20
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
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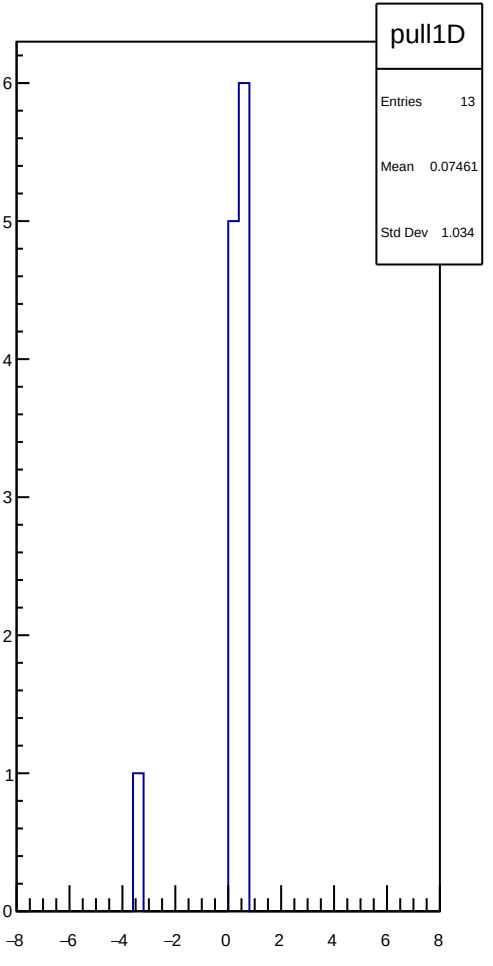
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.07461
Std Dev 1.034
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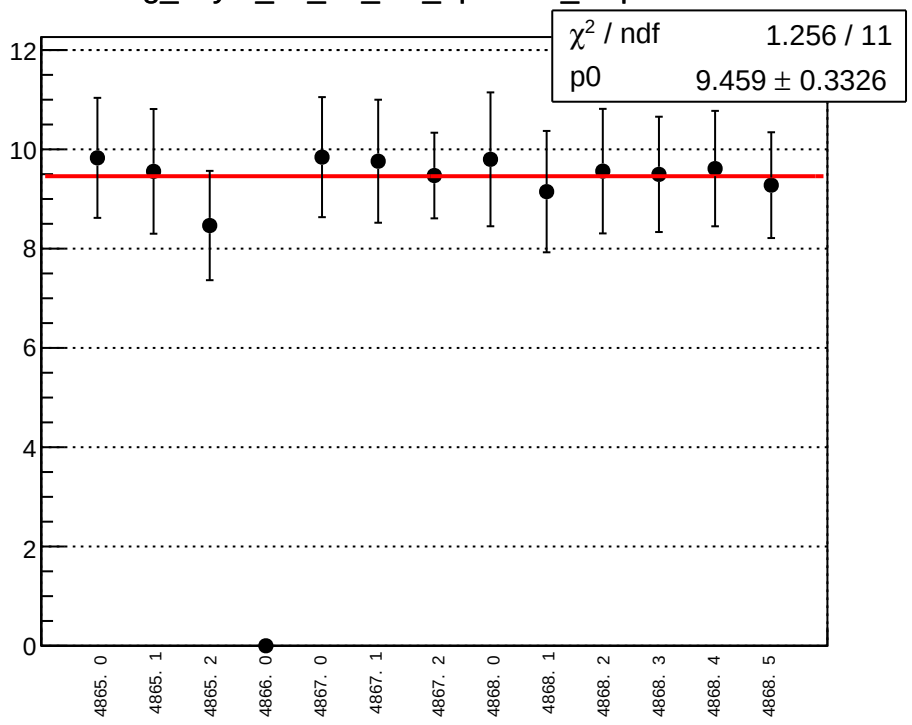
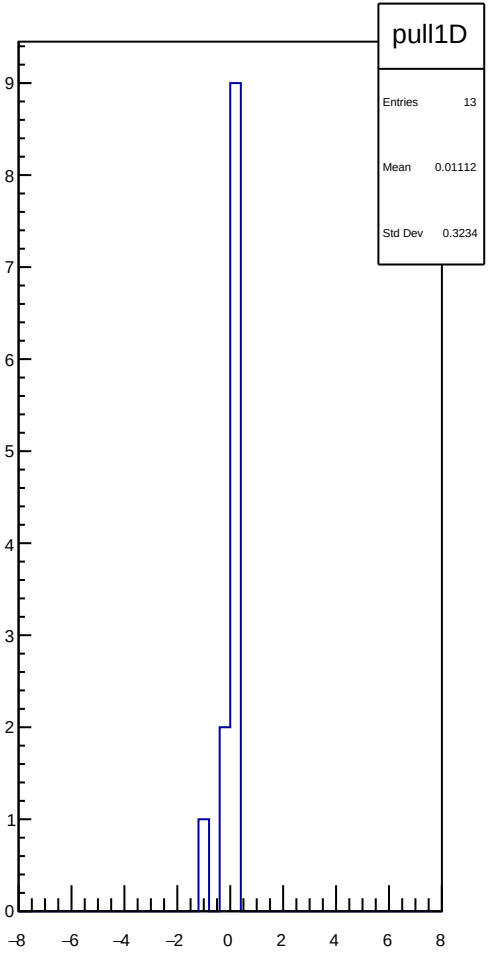
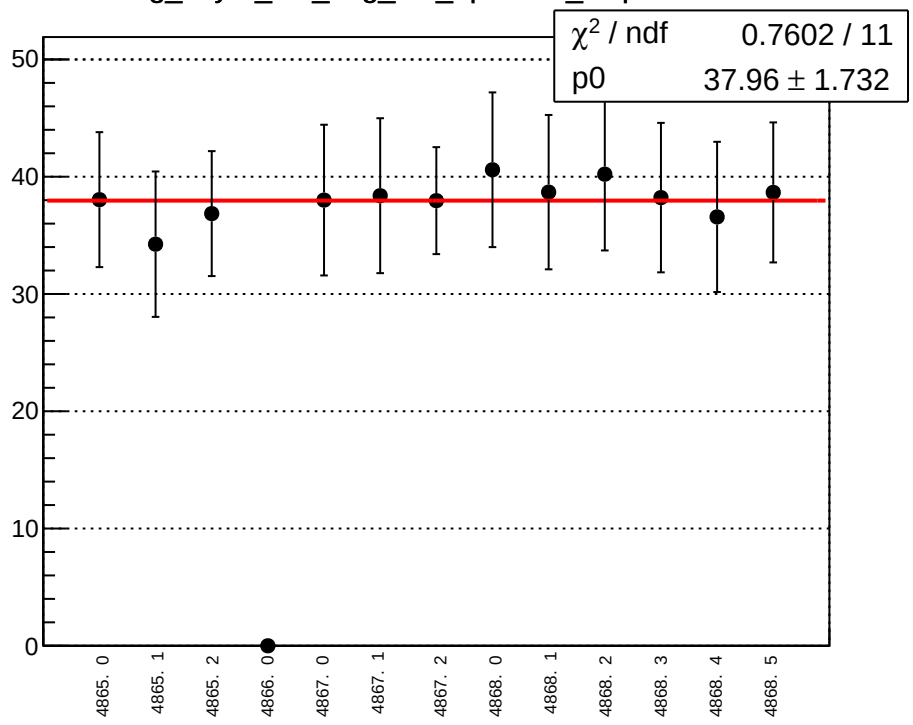
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 1.256 / 11
p0 9.459 ± 0.3326
12
10
8
6
4
2
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.01112
Std Dev 0.3234
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.7602 / 11
p0 37.96 ± 1.732
50
40
30
20
10
0
4865. 0
4865. 1
4865. 2
4866. 0
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4867. 2
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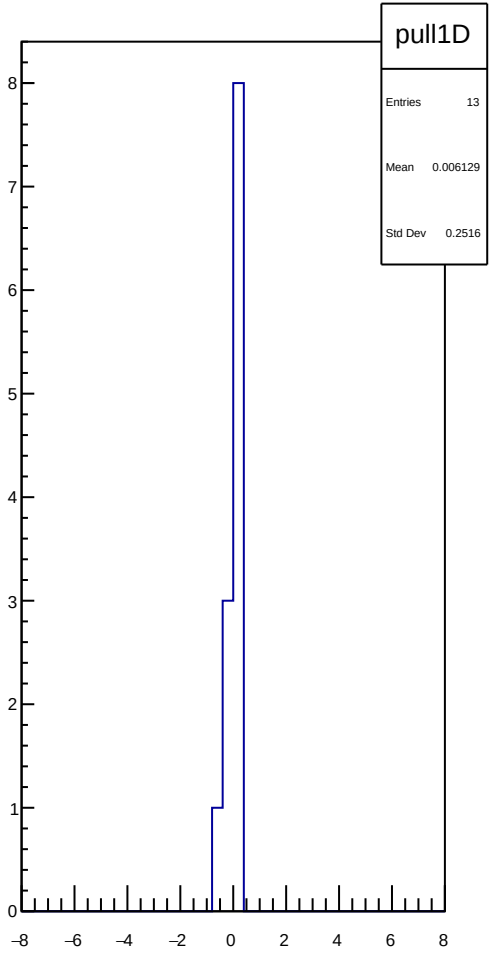
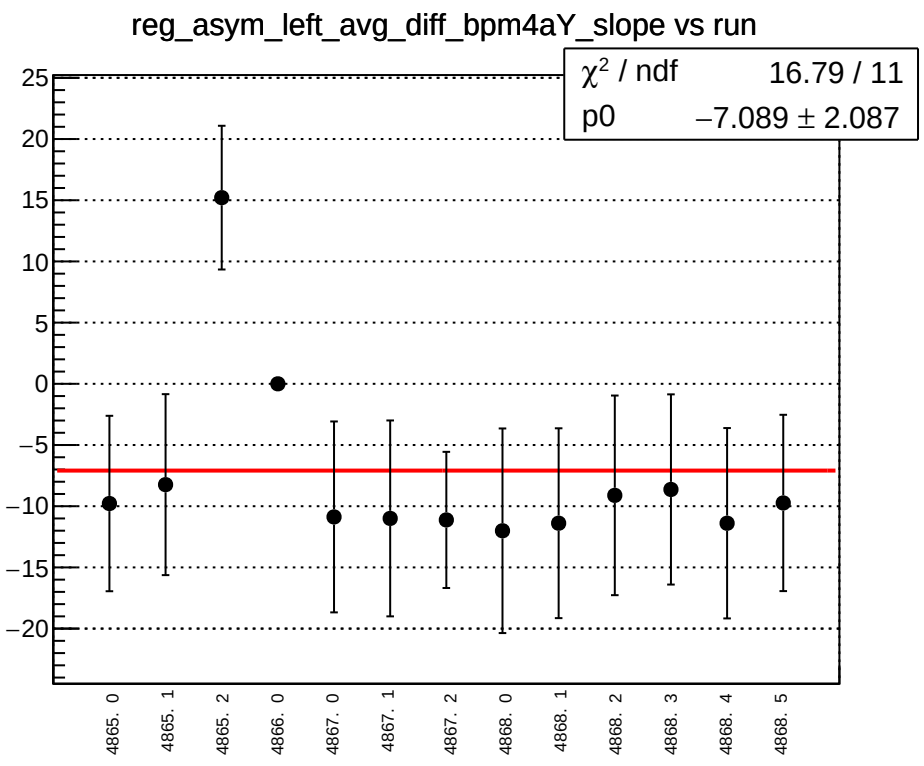
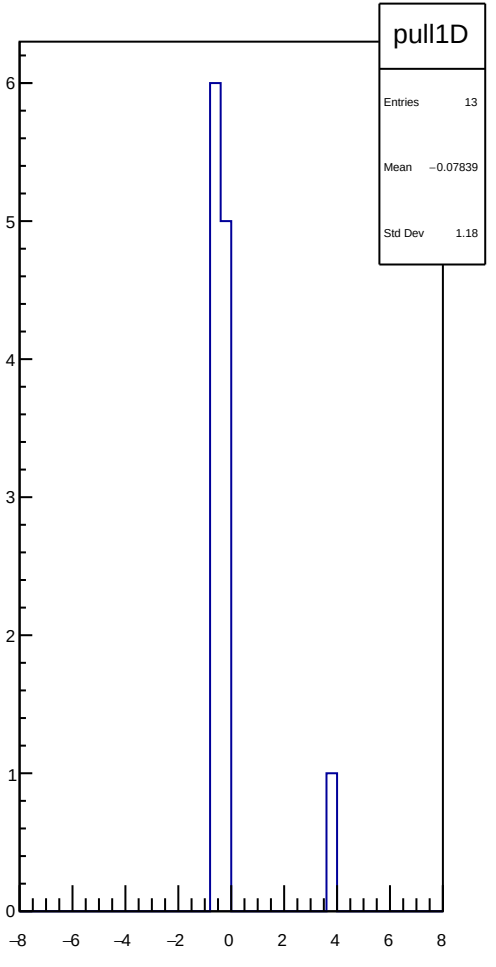
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.006129
Std Dev 0.2516
8
7
6
5
4
3
2
1
0
–8
–6
–4
–2
0
2
4
6
8


reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.79 / 11
p0 −7.089 ± 2.087
25
20
15
10
5
0
−5
−10
−15
−20
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.07839
Std Dev 1.18
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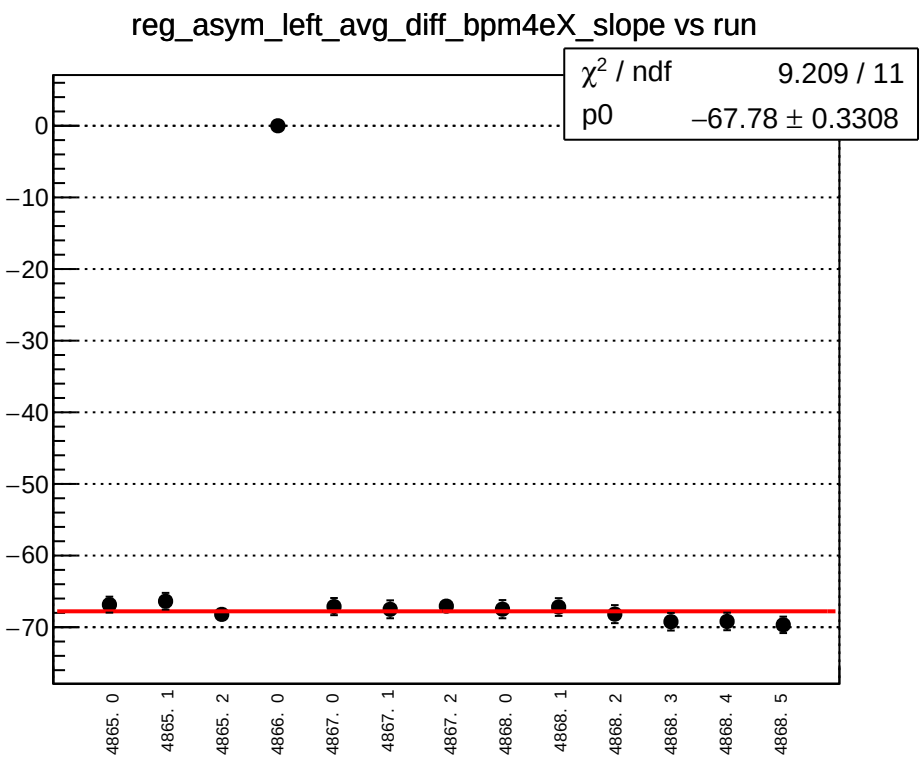
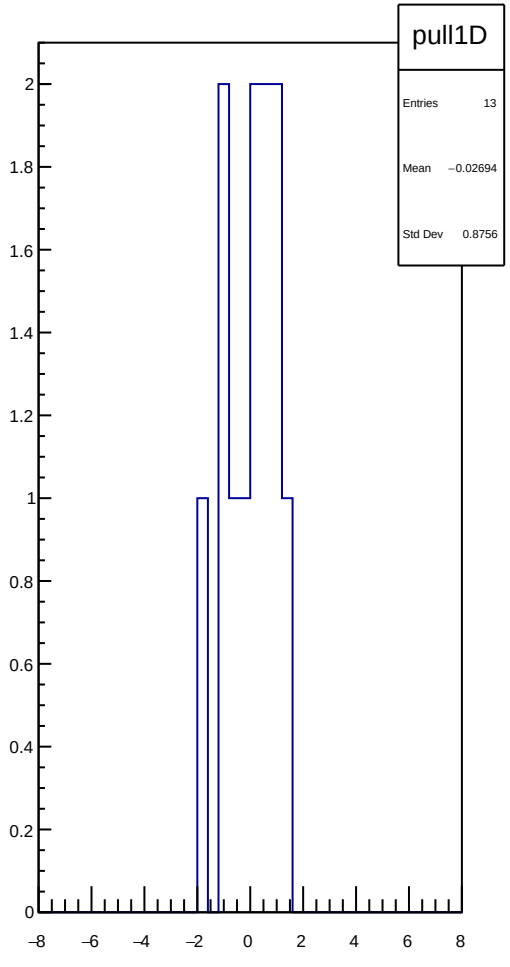
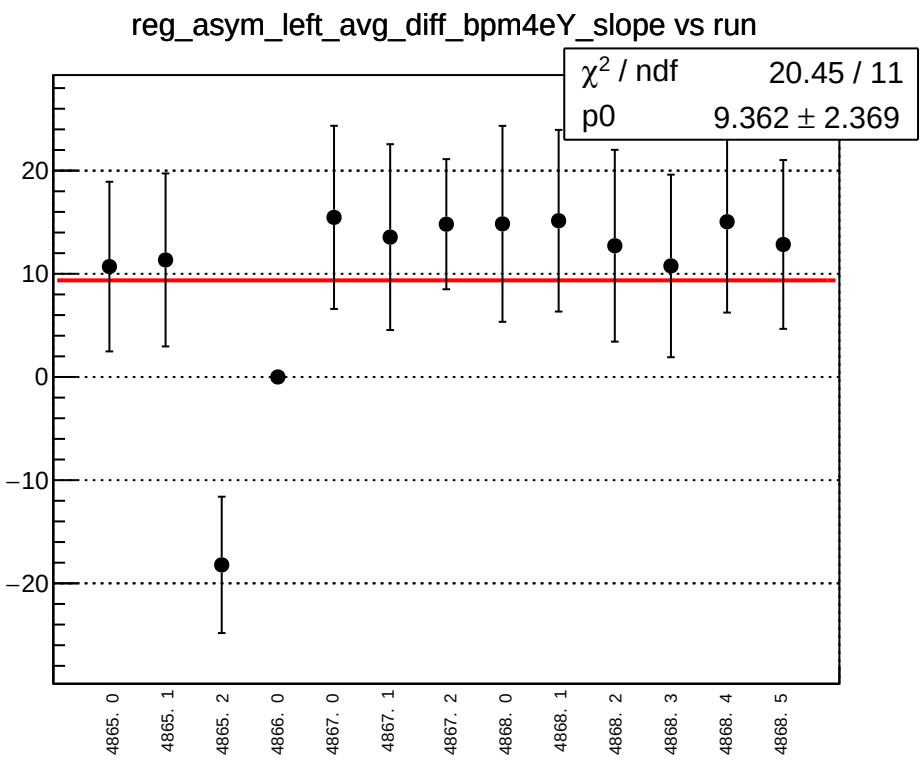
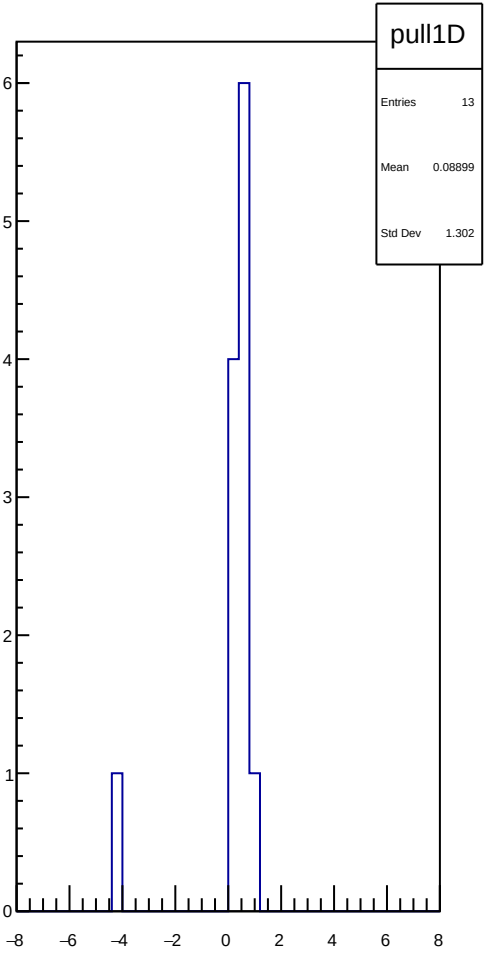
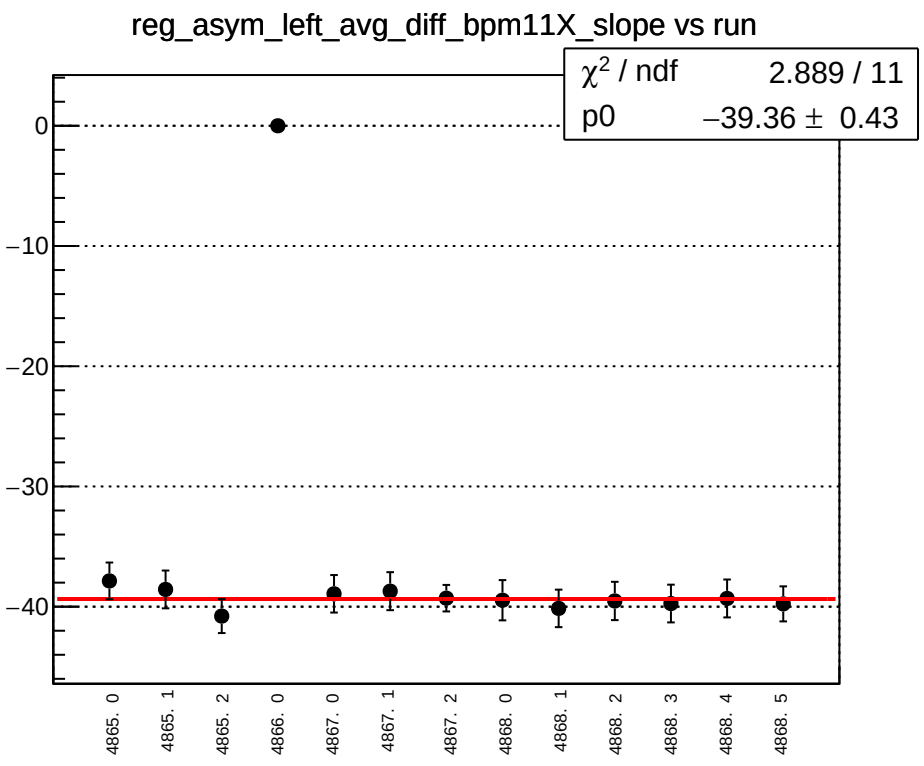
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

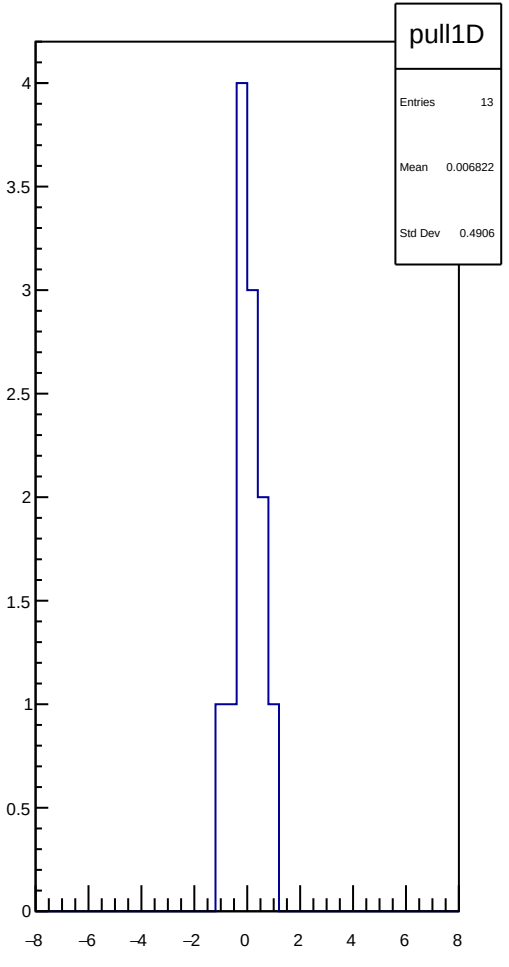

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.209 / 11
p0 −67.78 ± 0.3308
0
−10
−20
−30
−40
−50
−60
−70
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

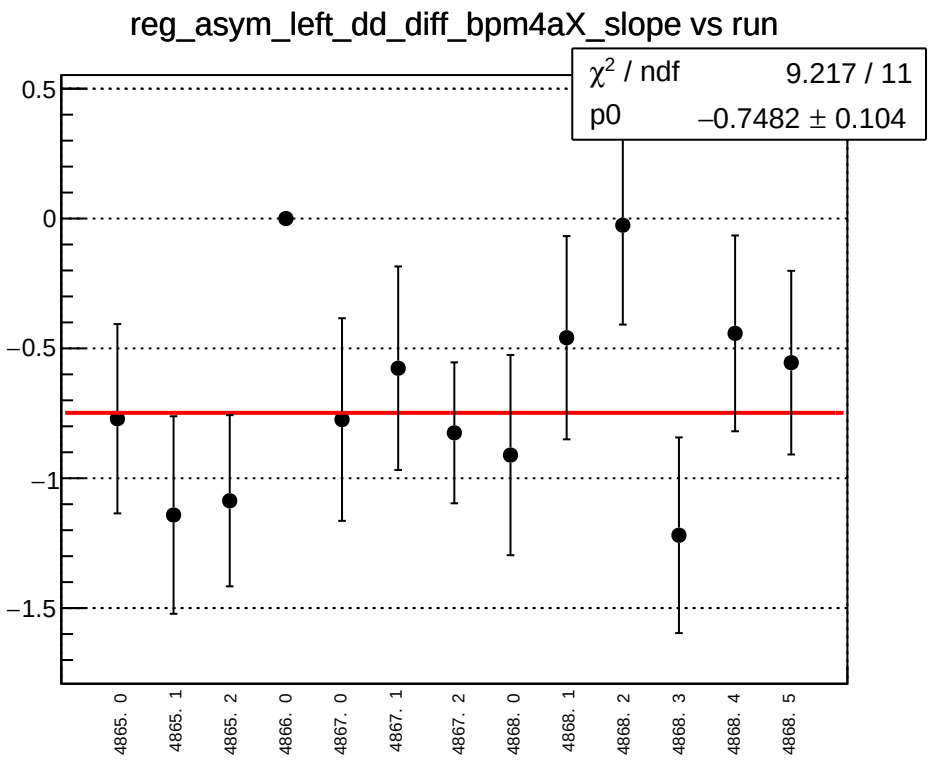

pull1D
Entries 13
Mean −0.02694
Std Dev 0.8756
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

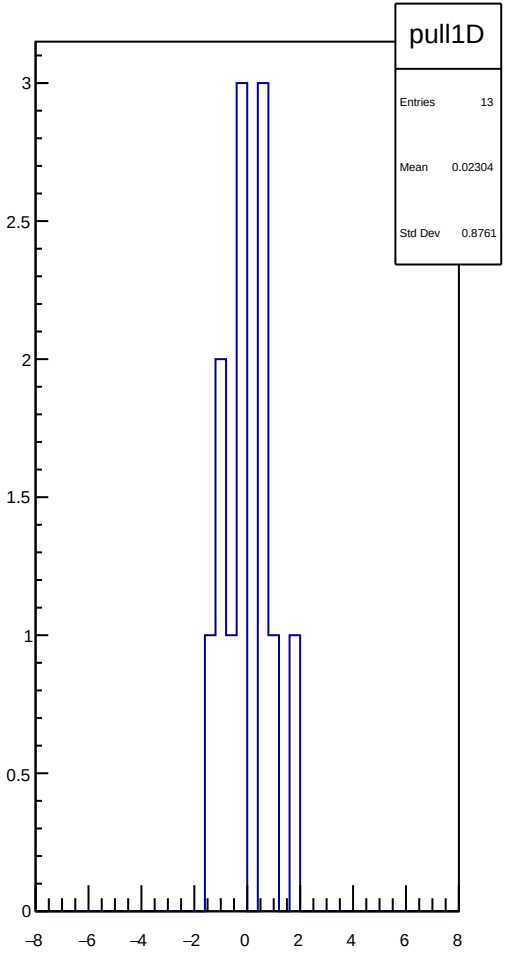

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.45 / 11
p0 9.362 ± 2.369
20
10
0
−10
−20
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

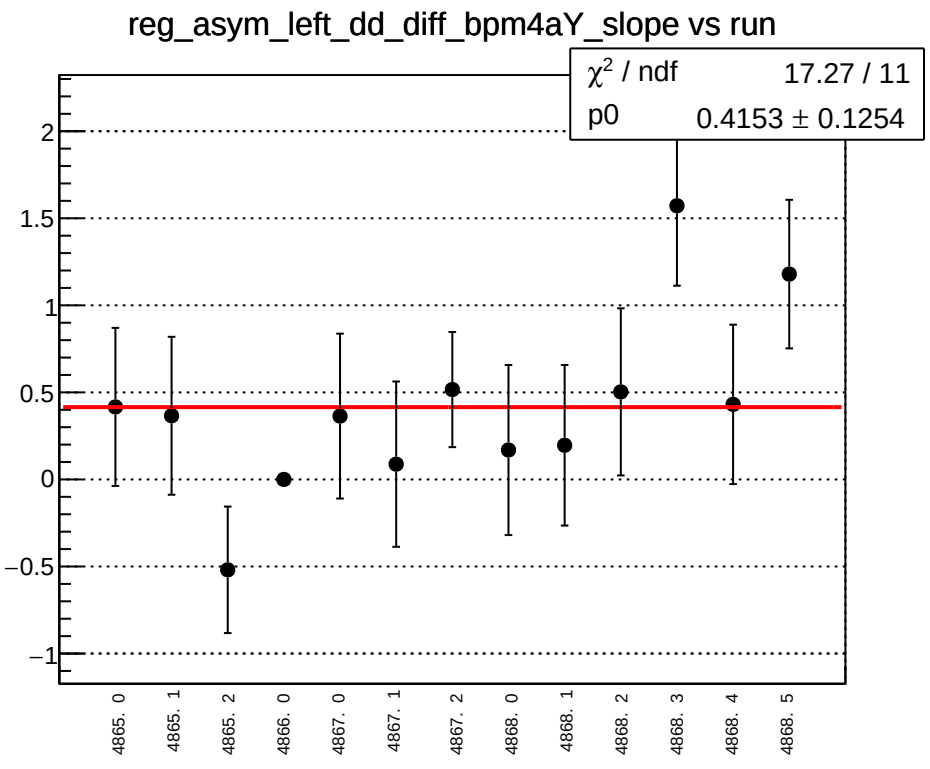

pull1D
Entries 13
Mean 0.08899
Std Dev 1.302
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

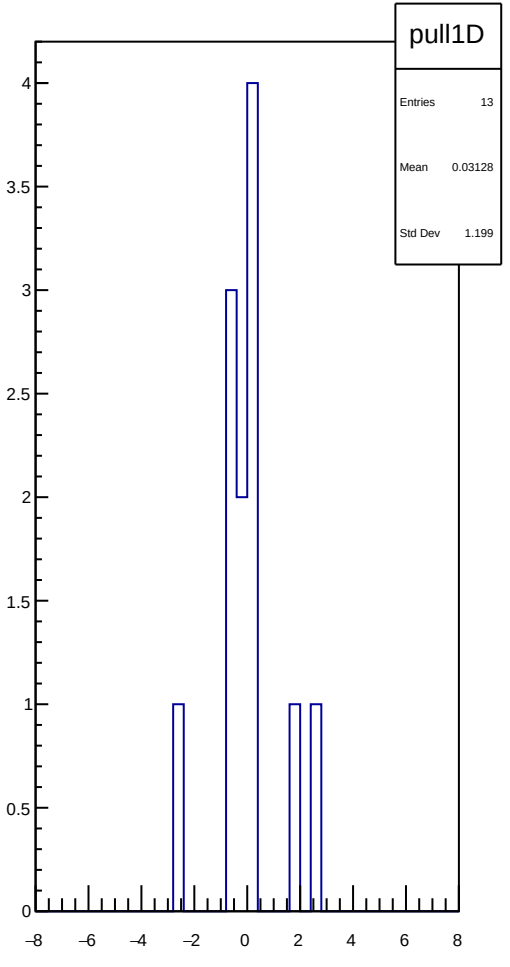

reg_asym_left_avg_diff_bpm11X_slope vs run
χ² / ndf 2.889 / 11
p0 −39.36 ± 0.43
0
−10
−20
−30
−40
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

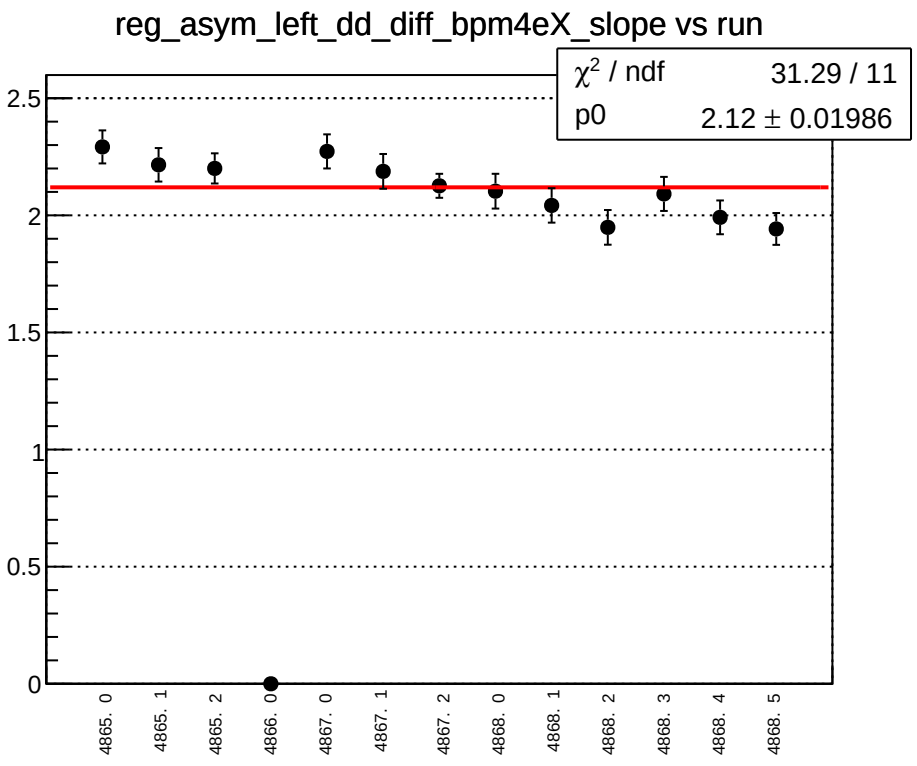

pull1D
Entries 13
Mean 0.006822
Std Dev 0.4906
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

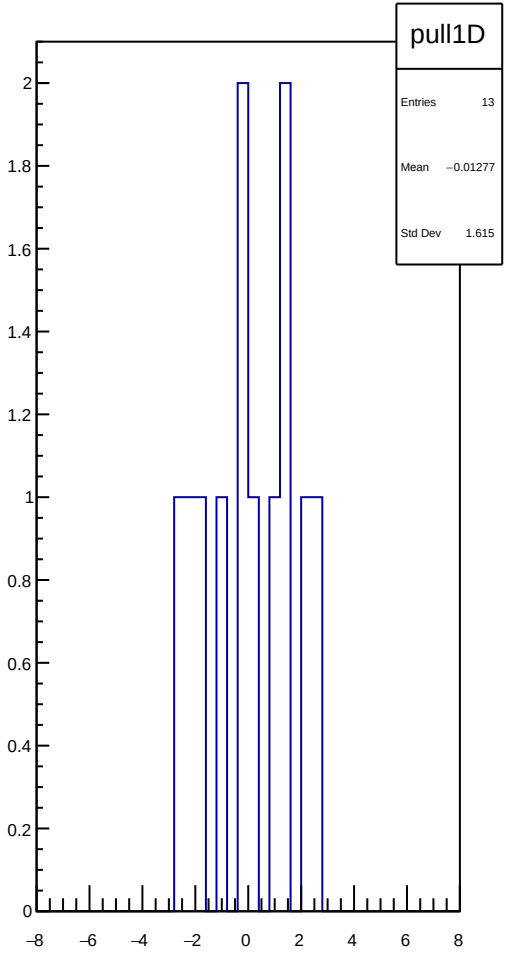

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 9.217 / 11
p0 −0.7482 ± 0.104
0.5
0
−0.5
−1
−1.5
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

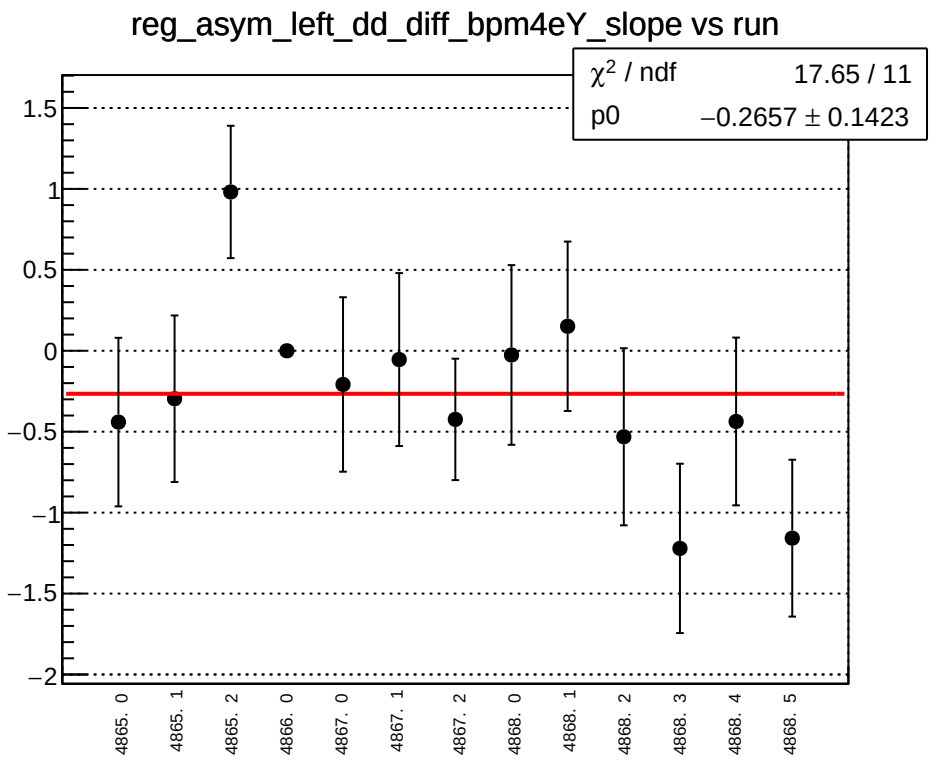

pull1D
Entries 13
Mean 0.02304
Std Dev 0.8761
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

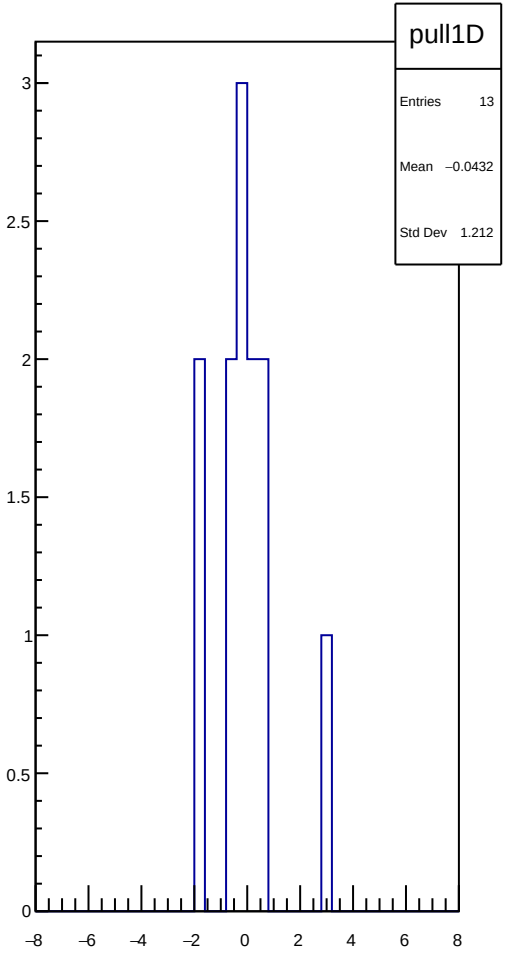

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.27 / 11
p0 0.4153 ± 0.1254
2
1.5
1
0.5
0
−0.5
−1
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

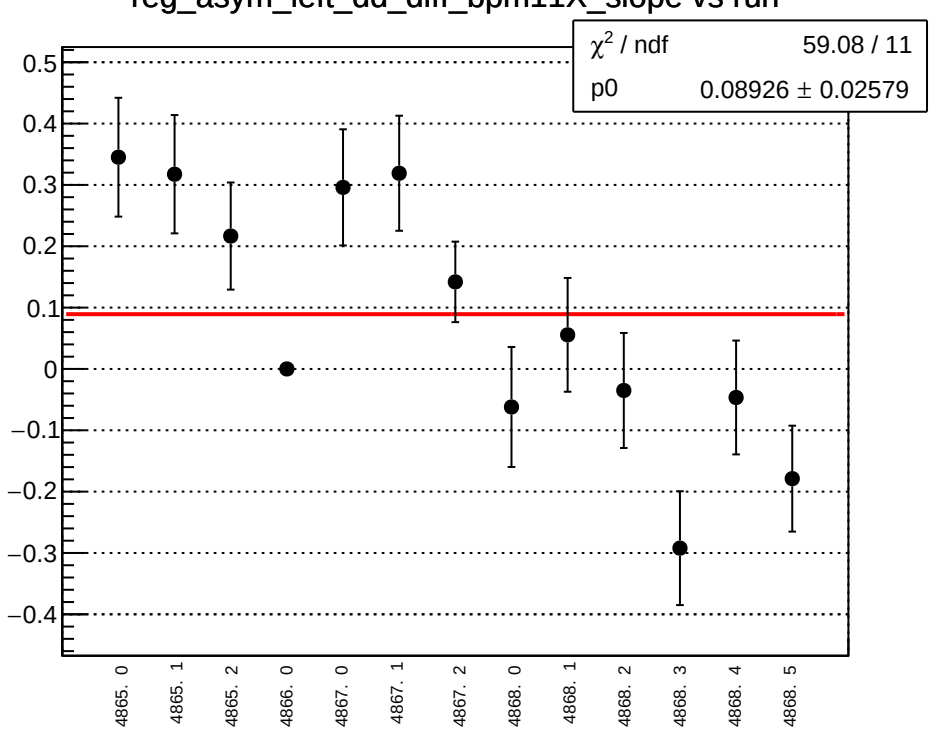

pull1D
Entries 13
Mean 0.03128
Std Dev 1.199
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

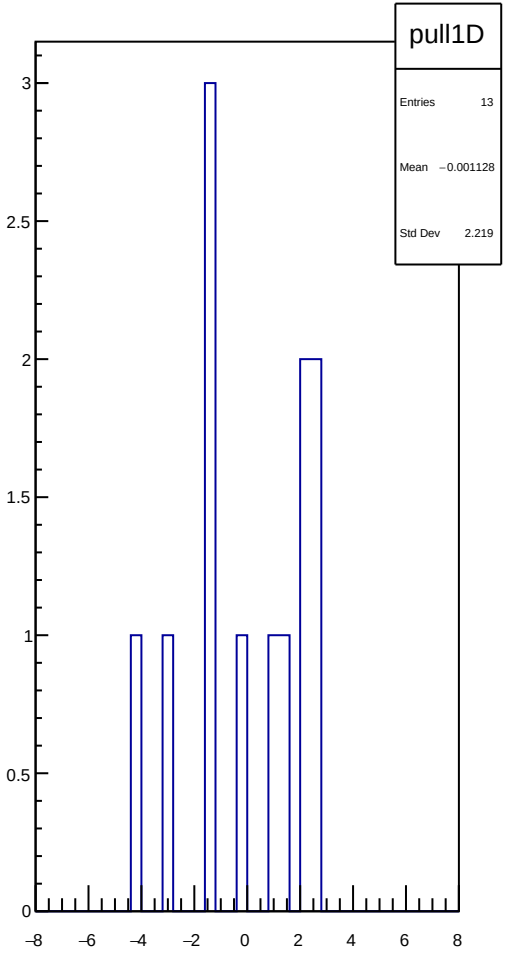

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 31.29 / 11
p0 2.12 ± 0.01986
2.5
2
1.5
1
0.5
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

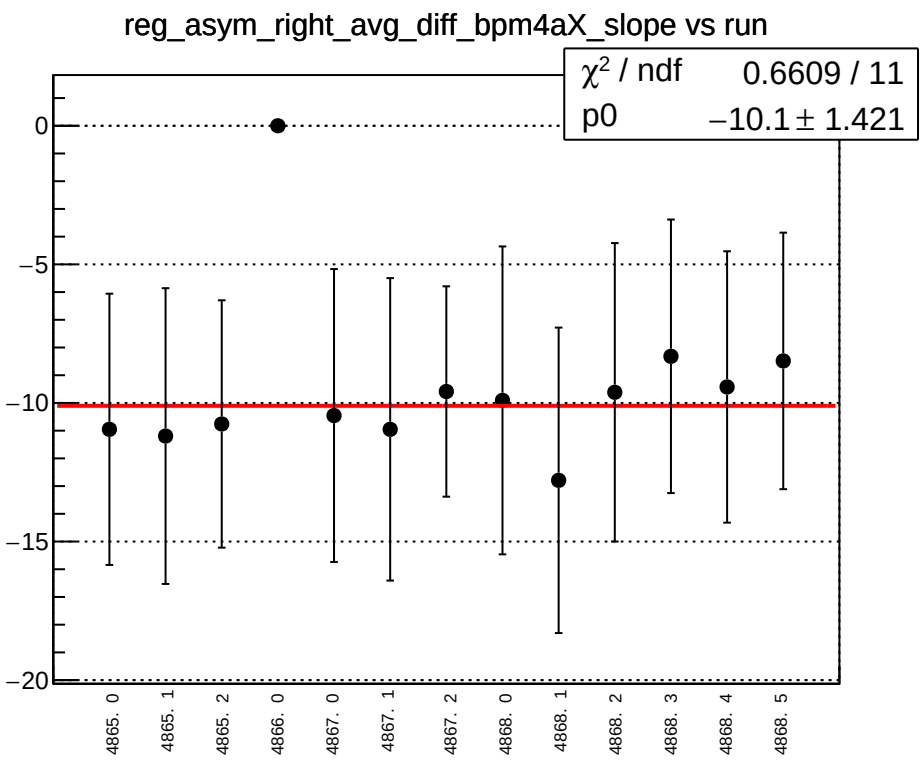

pull1D
Entries 13
Mean −0.01277
Std Dev 1.615
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

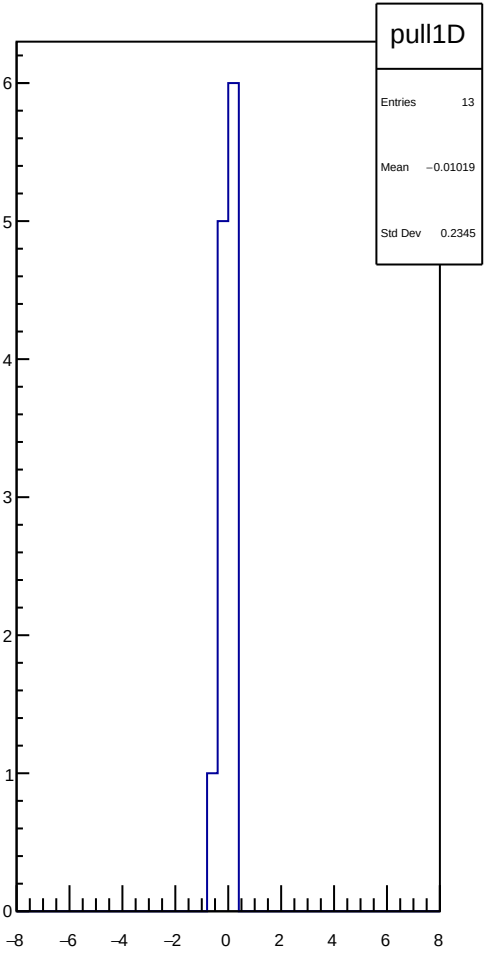

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.65 / 11
p0 −0.2657 ± 0.1423
1.5
1
0.5
0
−0.5
−1
−1.5
−2
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

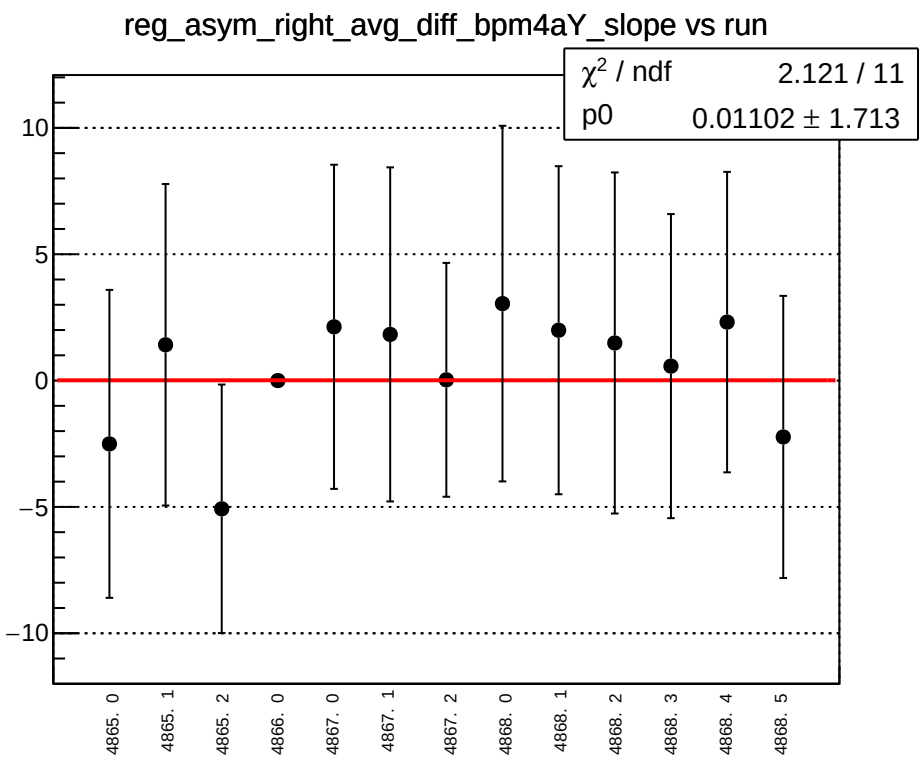

pull1D
Entries 13
Mean −0.0432
Std Dev 1.212
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

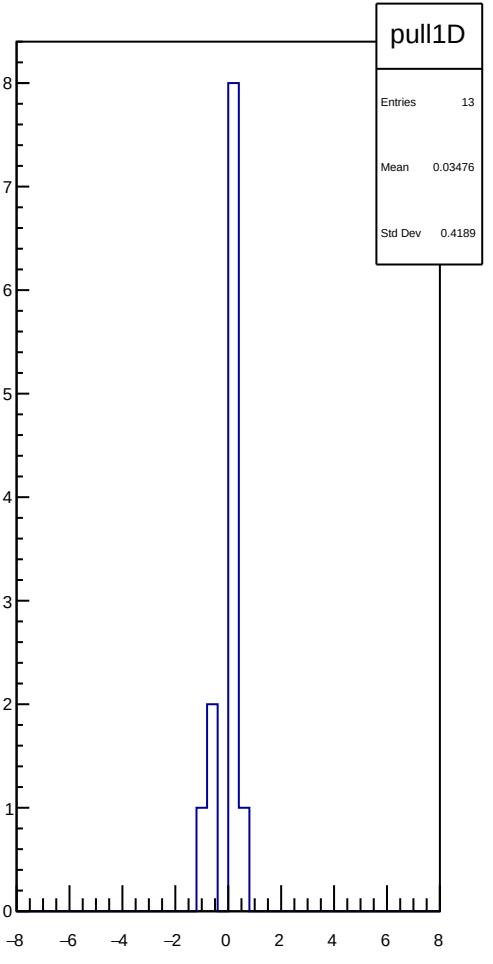

reg_asym_left_dd_diff_bpm11X_slope vs run
χ² / ndf 59.08 / 11
p0 0.08926 ± 0.02579
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

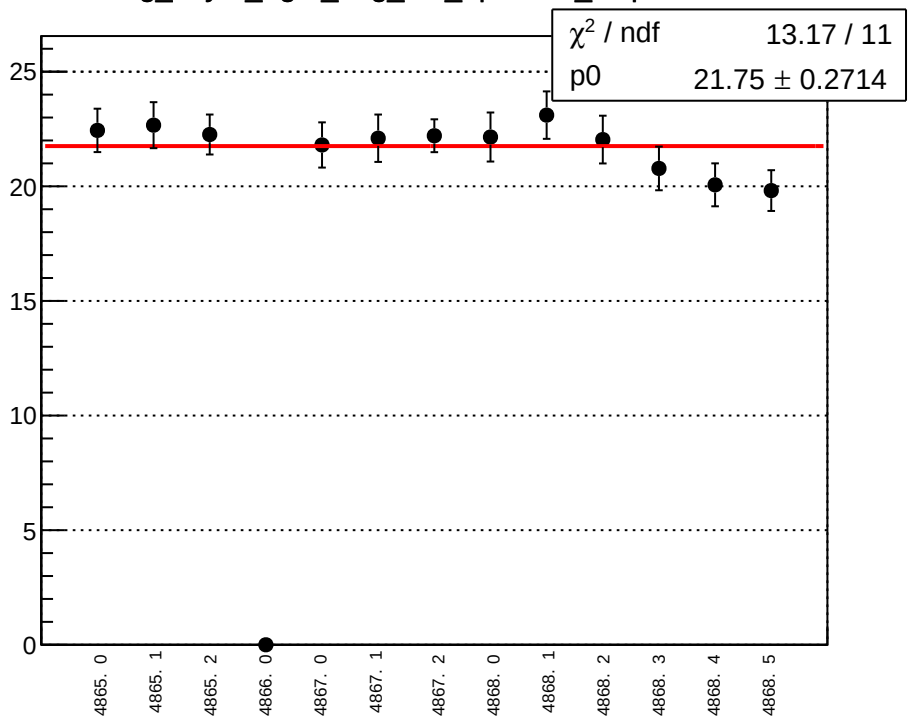

pull1D
Entries 13
Mean −0.001128
Std Dev 2.219
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

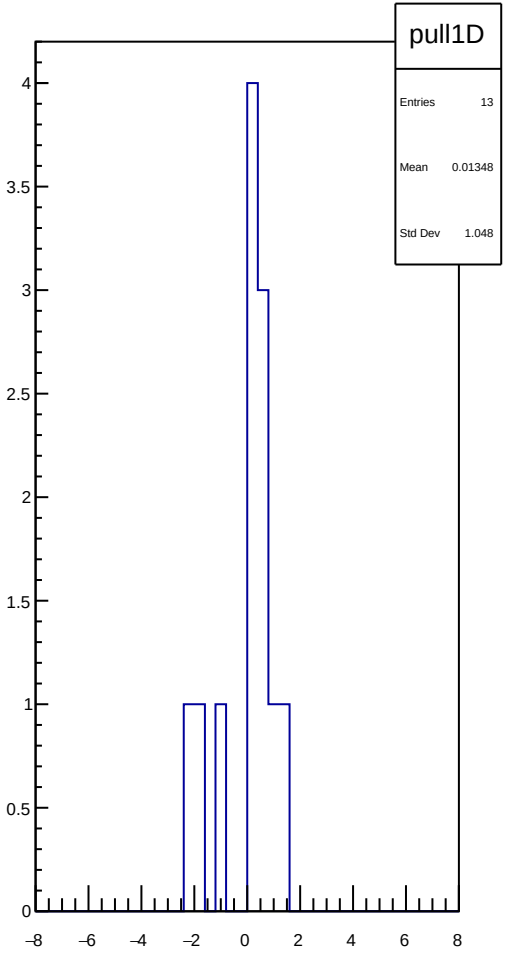

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.6609 / 11
p0 −10.1 ± 1.421
0
−5
−10
−15
−20
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

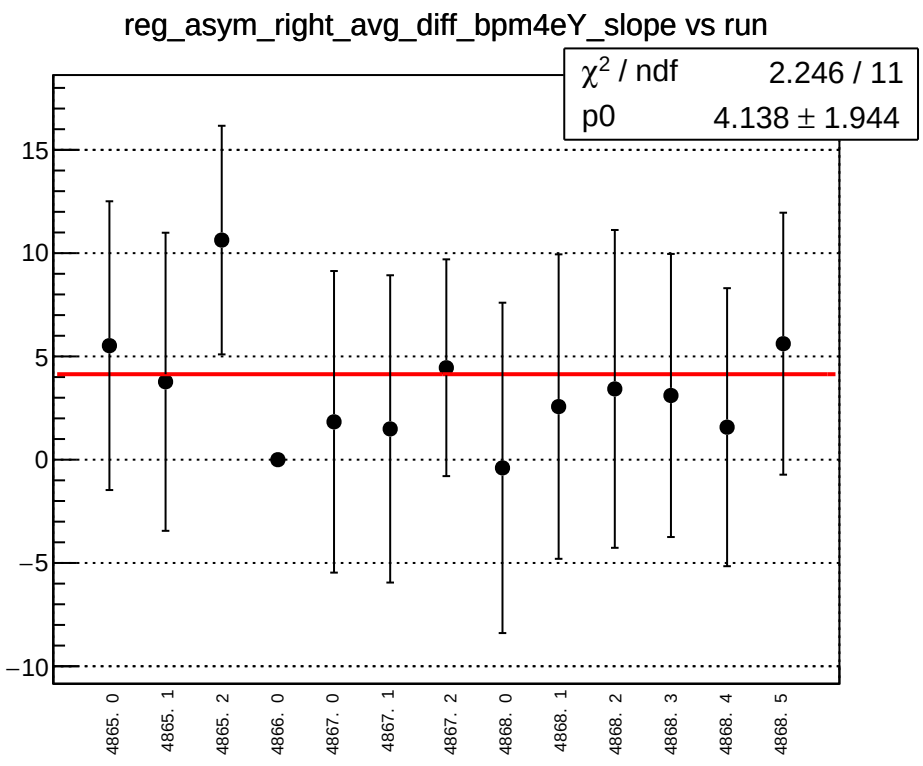

pull1D
Entries 13
Mean −0.01019
Std Dev 0.2345
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

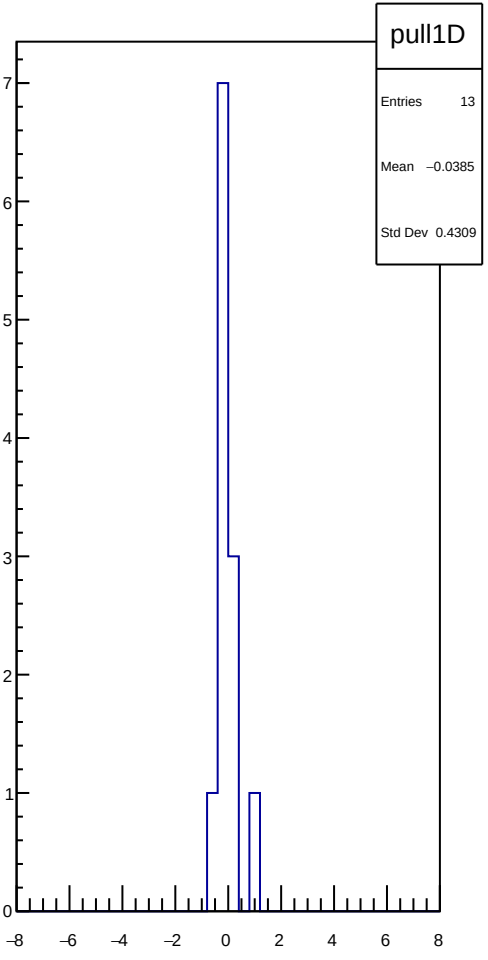

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.121 / 11
p0 0.01102 ± 1.713
10
5
0
−5
−10
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

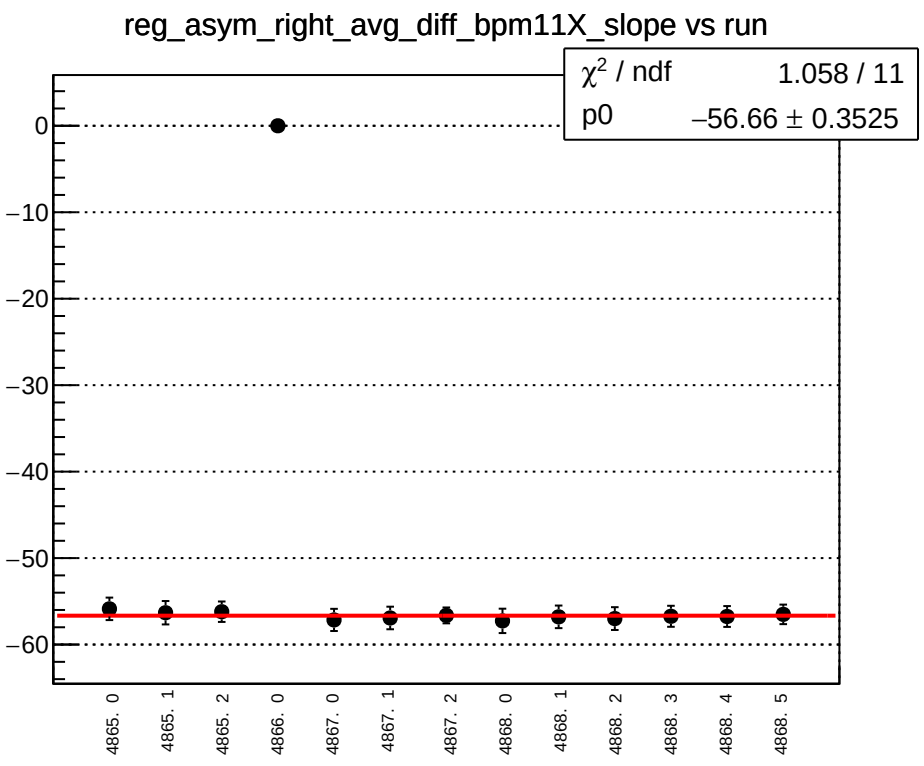

pull1D
Entries 13
Mean 0.03476
Std Dev 0.4189
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

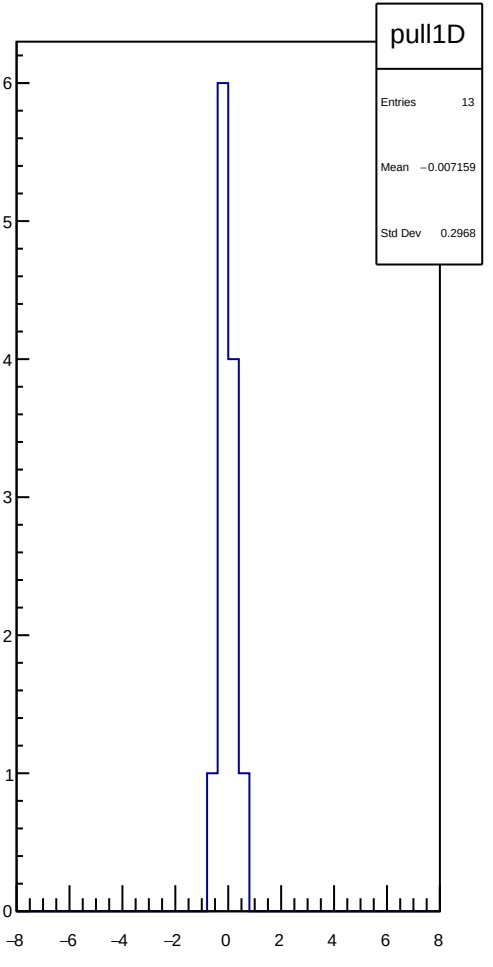

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.17 / 11
p0 21.75 ± 0.2714
25
20
15
10
5
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

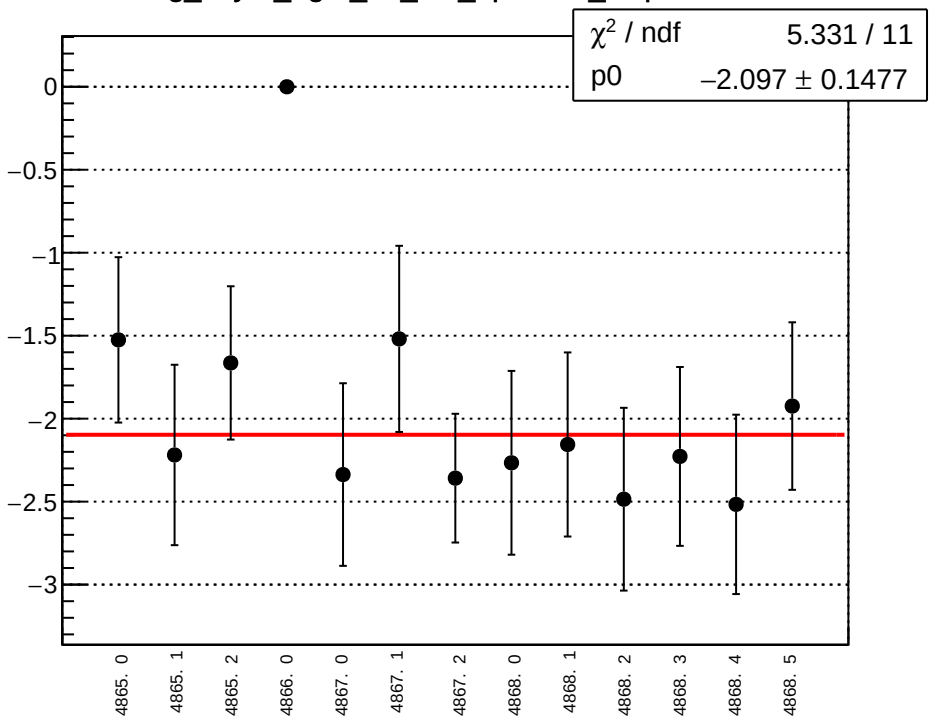

pull1D
Entries 13
Mean 0.01348
Std Dev 1.048
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

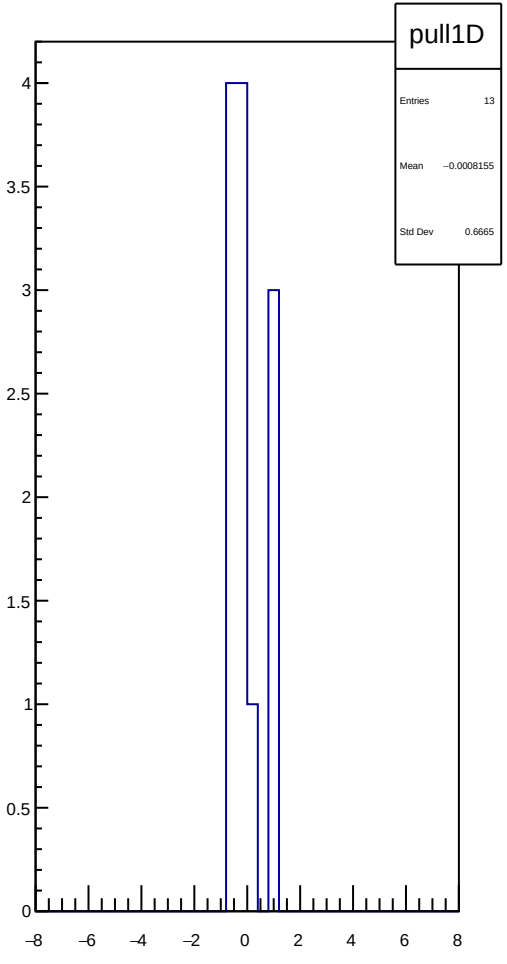

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.246 / 11
p0 4.138 ± 1.944
15
10
5
0
−5
−10
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

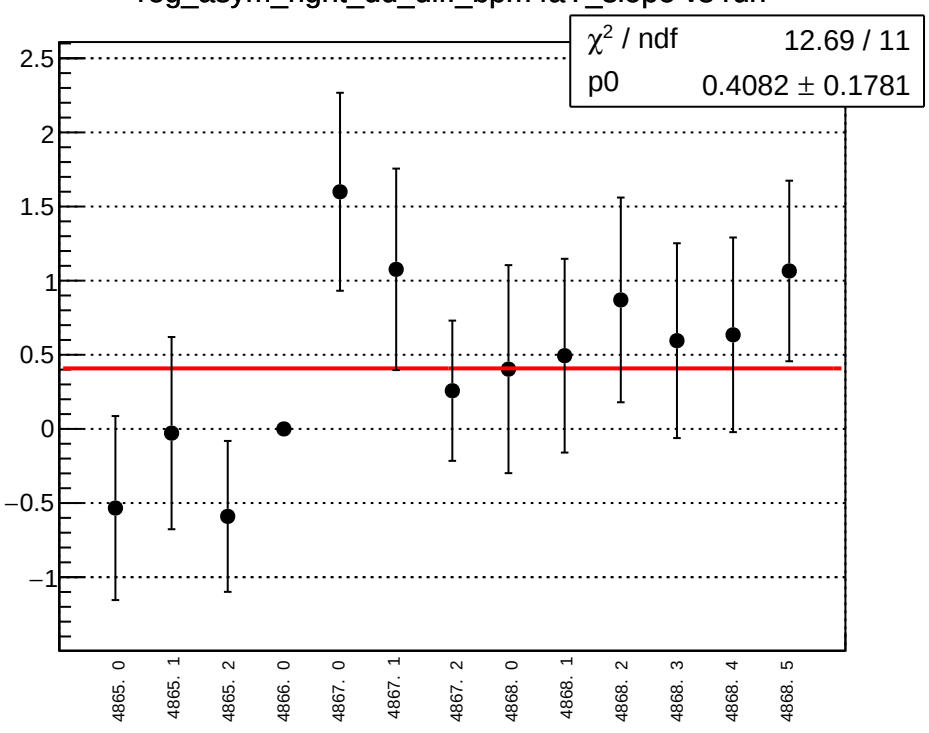

pull1D
Entries 13
Mean −0.0385
Std Dev 0.4309
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

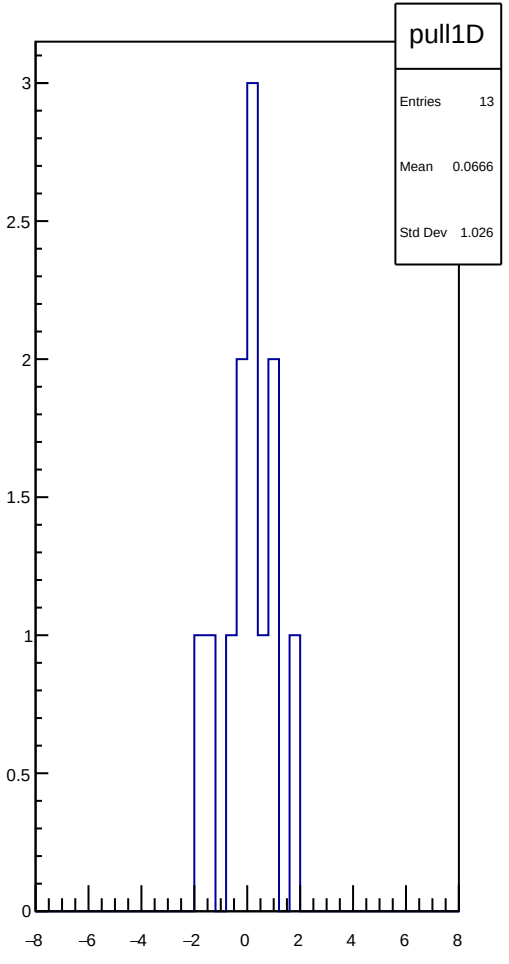

reg_asym_right_avg_diff_bpm11X_slope vs run
χ² / ndf 1.058 / 11
p0 −56.66 ± 0.3525
0
−10
−20
−30
−40
−50
−60
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

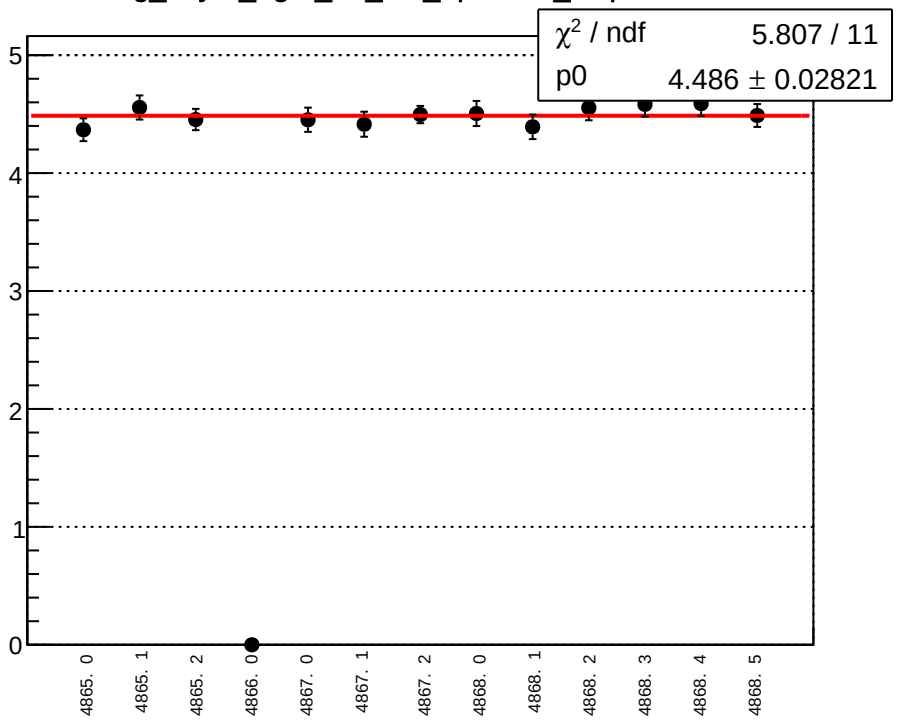

pull1D
Entries 13
Mean −0.007159
Std Dev 0.2968
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

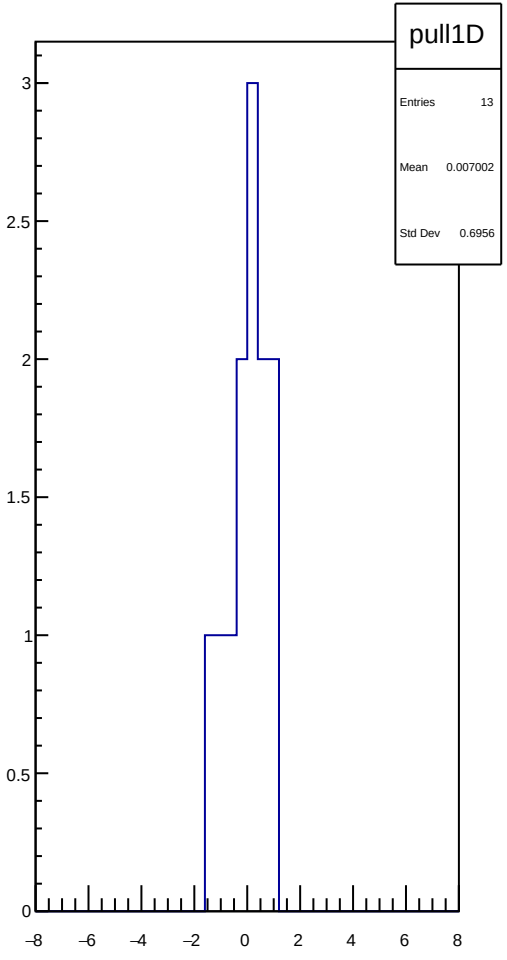

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 5.331 / 11
p0 −2.097 ± 0.1477
0
−0.5
−1
−1.5
−2
−2.5
−3
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.0008155
Std Dev 0.6665
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.69 / 11
p0 0.4082 ± 0.1781
2.5
2
1.5
1
0.5
0
−0.5
−1
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.0666
Std Dev 1.026
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.807 / 11
p0 4.486 ± 0.02821
5
4
3
2
1
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.007002
Std Dev 0.6956
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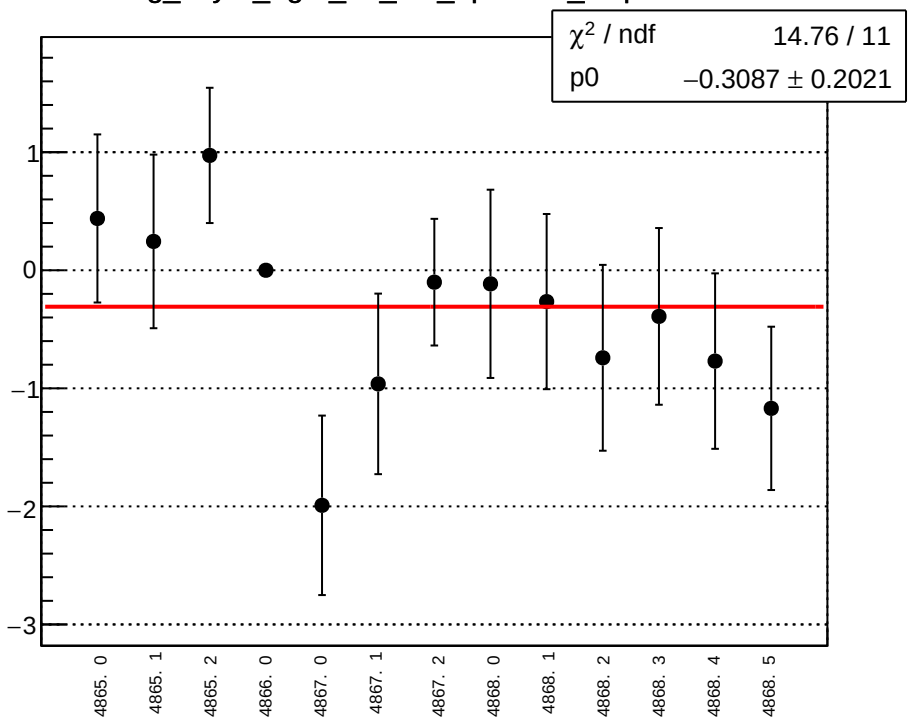
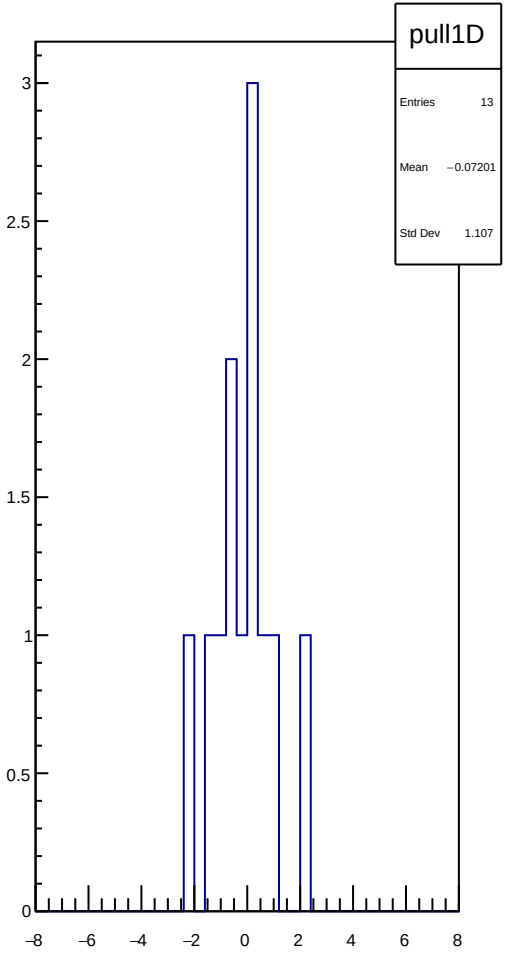
2.5
2
1.5
1
0.5
0
–8
–6
–4
–2
0
2
4
6
8


reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.76 / 11
p0 −0.3087 ± 0.2021
1
0
−1
−2
−3
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.07201
Std Dev 1.107
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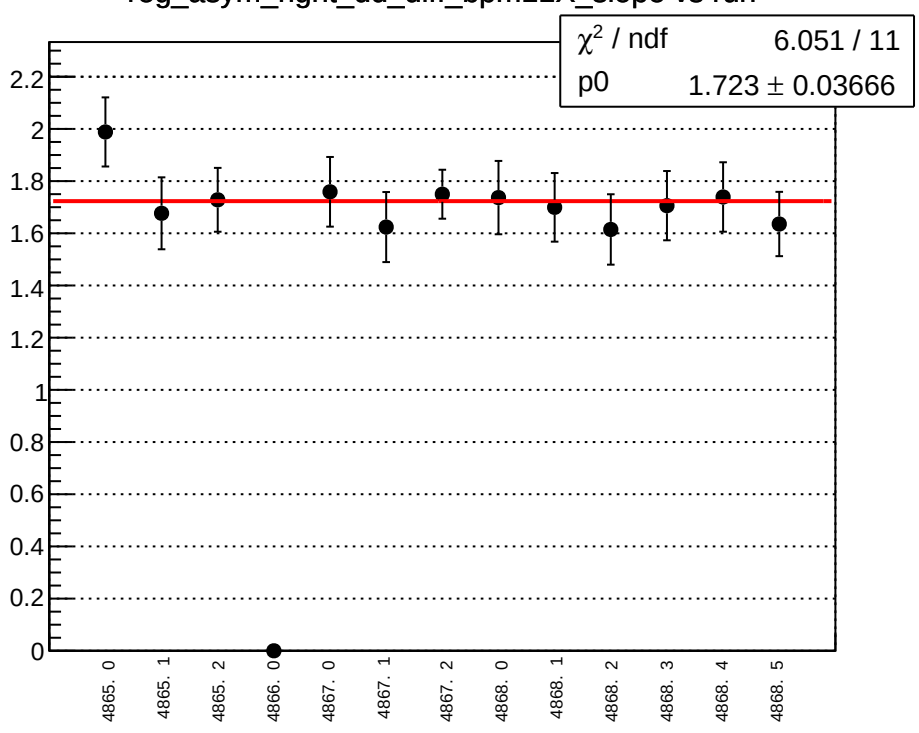
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_right_dd_diff_bpm11X_slope vs run
χ² / ndf 6.051 / 11
p0 1.723 ± 0.03666
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
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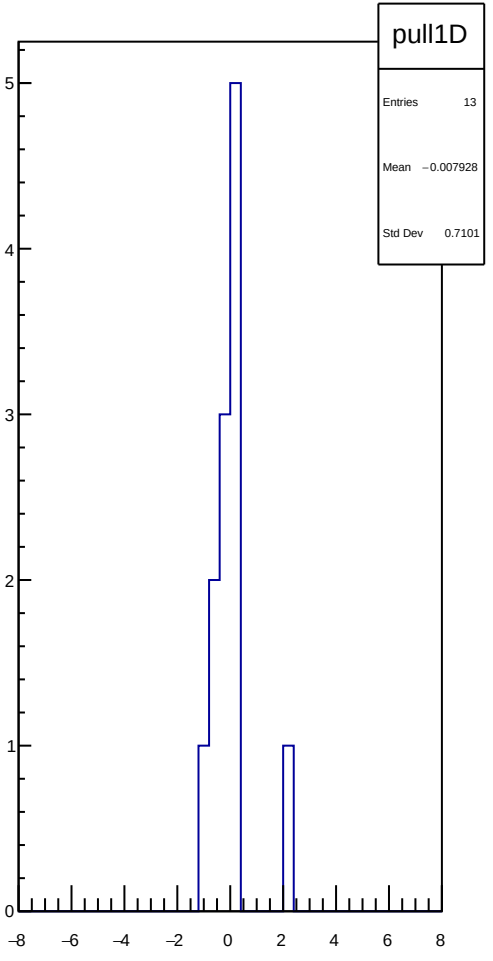
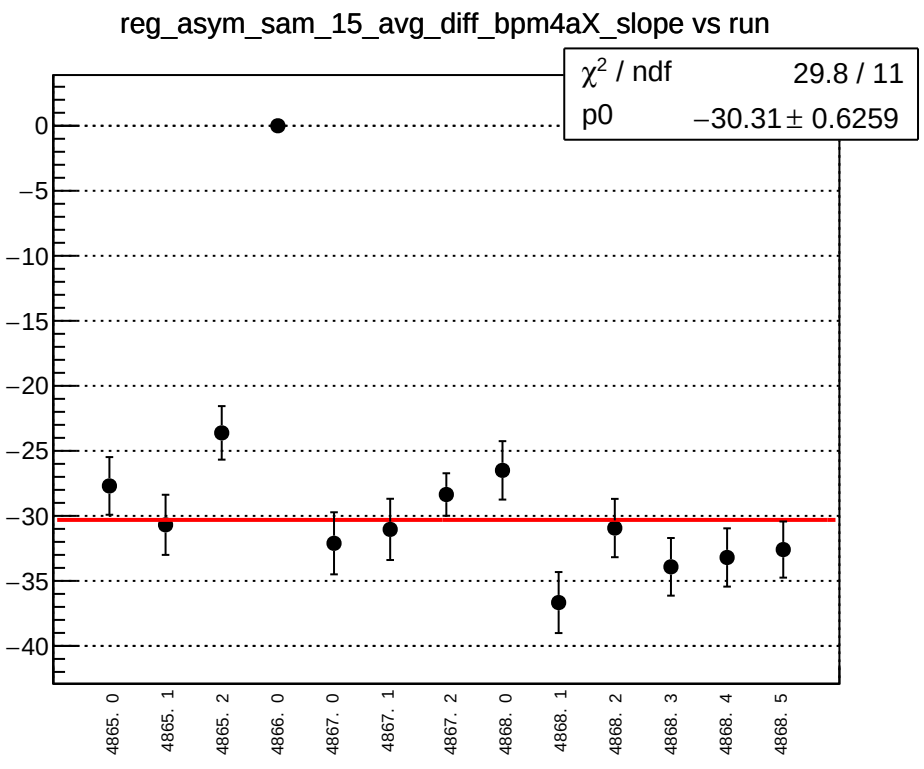
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.007928
Std Dev 0.7101
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 29.8 / 11
p0 −30.31 ± 0.6259
0
−5
−10
−15
−20
−25
−30
−35
−40
4865. 0
4865. 1
4865. 2
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4867. 2
4868. 0
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4868. 2
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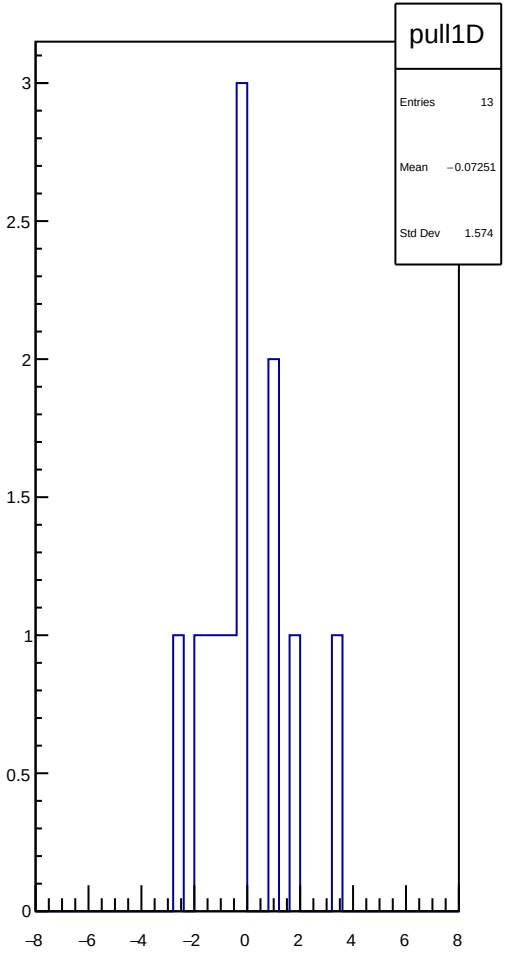
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.07251
Std Dev 1.574
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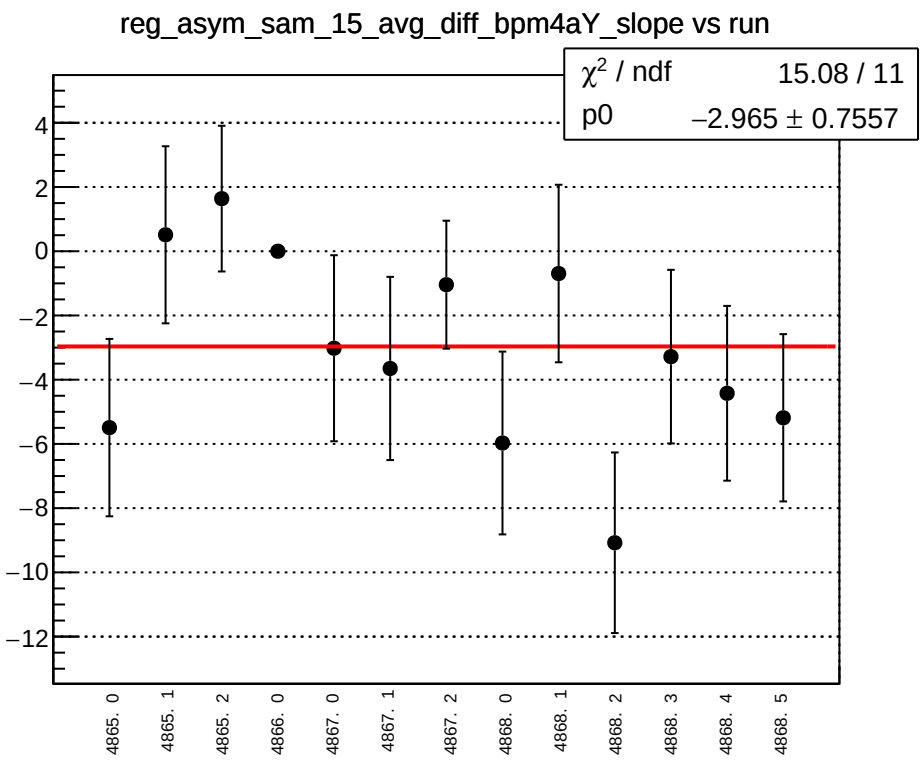
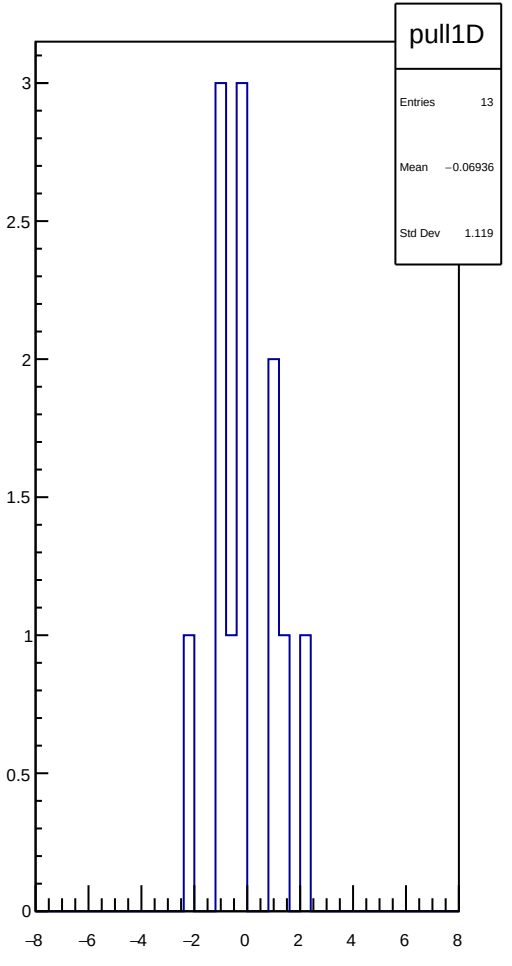
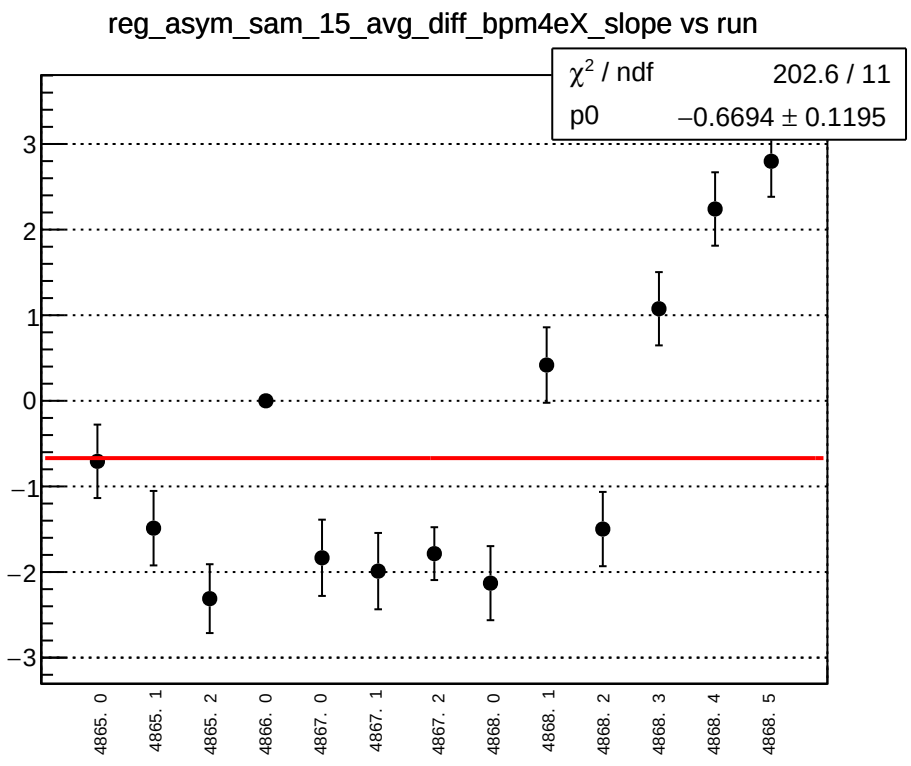
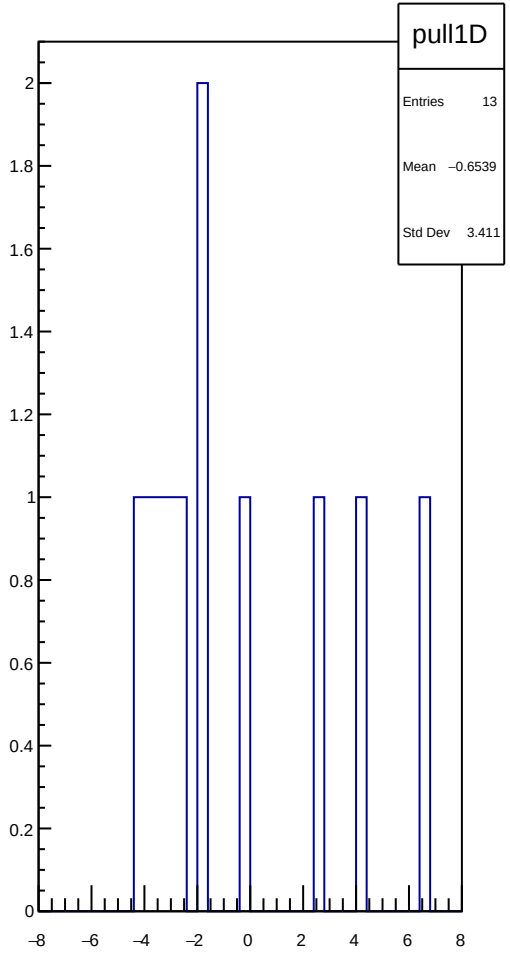
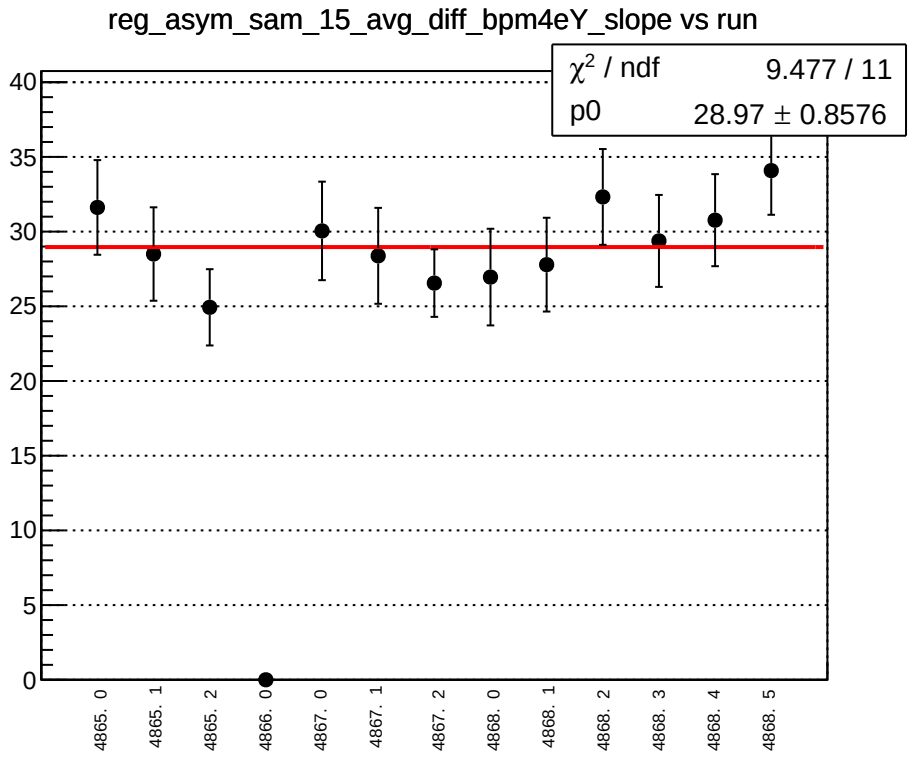
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

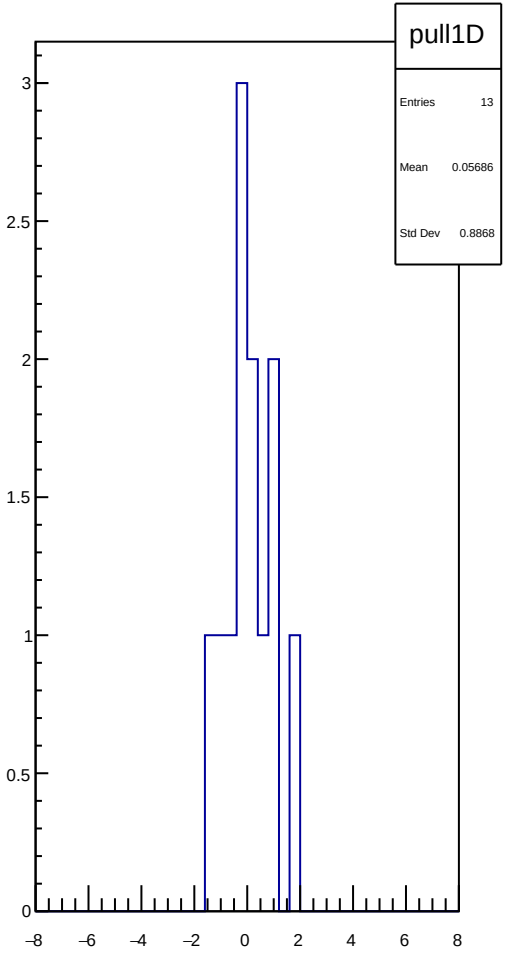

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.08 / 11
p0 −2.965 ± 0.7557
4
2
0
−2
−4
−6
−8
−10
−12
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

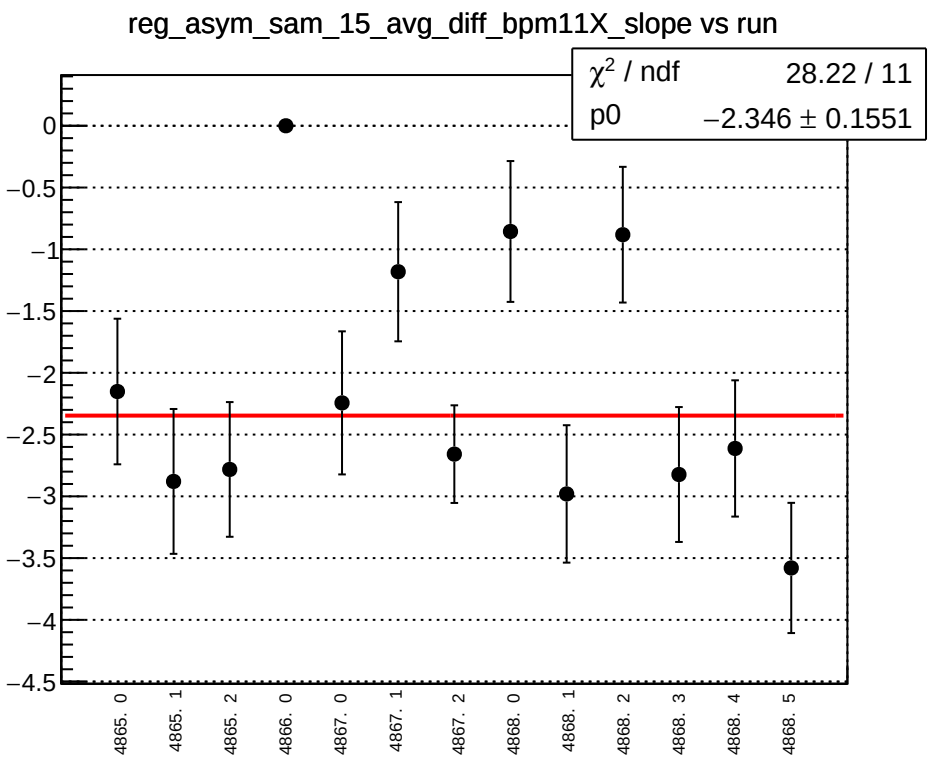

pull1D
Entries 13
Mean −0.06936
Std Dev 1.119
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

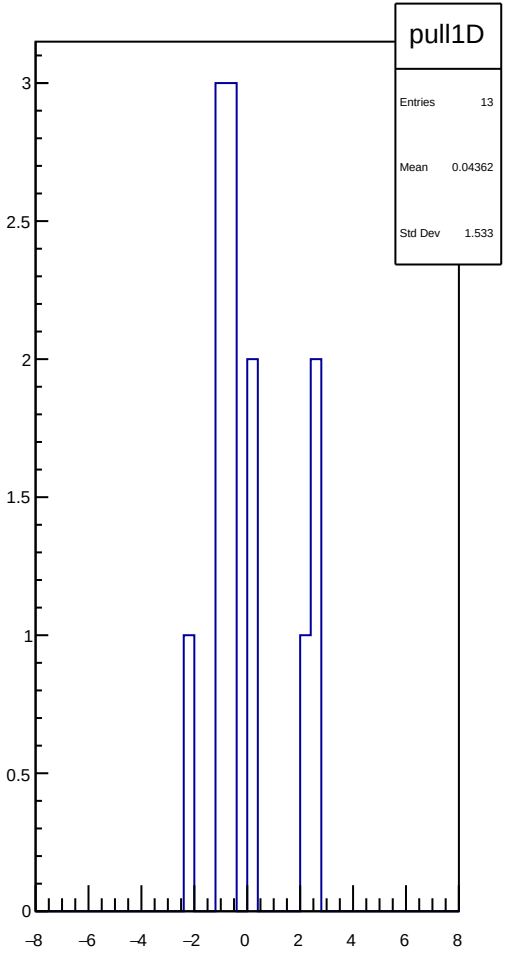

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 202.6 / 11
p0 −0.6694 ± 0.1195
3
2
1
0
−1
−2
−3
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

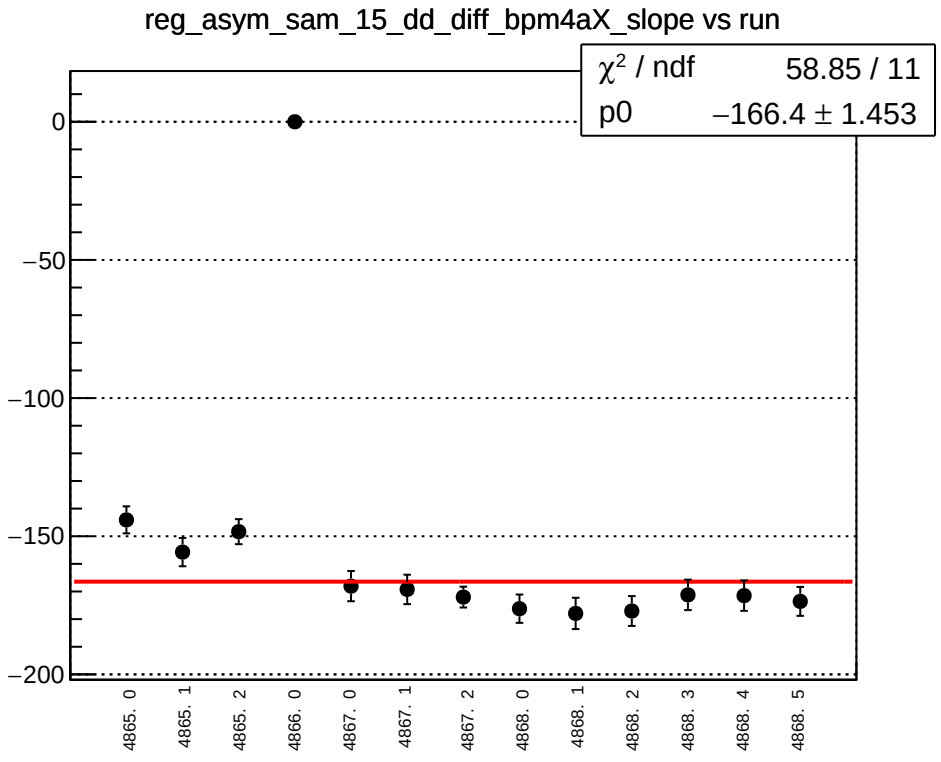

pull1D
Entries 13
Mean −0.6539
Std Dev 3.411
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

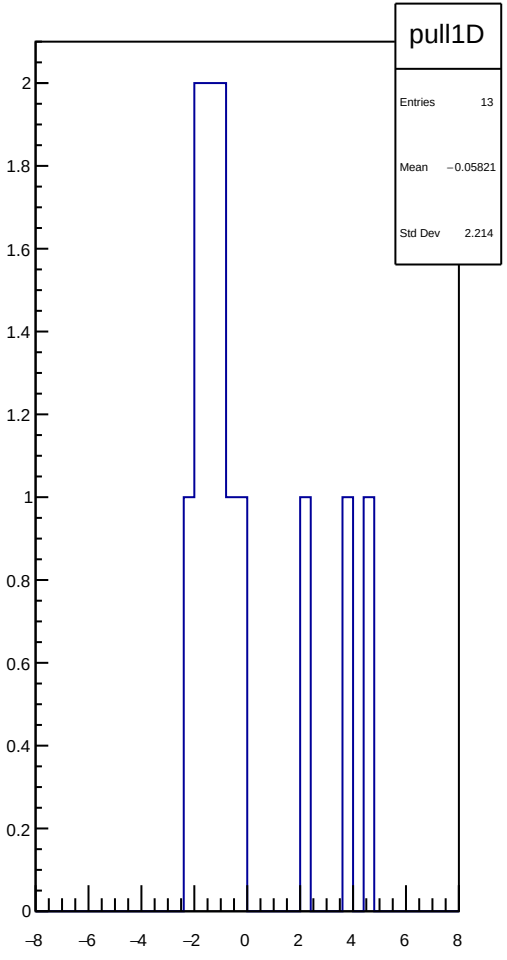

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.477 / 11
p0 28.97 ± 0.8576
40
35
30
25
20
15
10
5
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

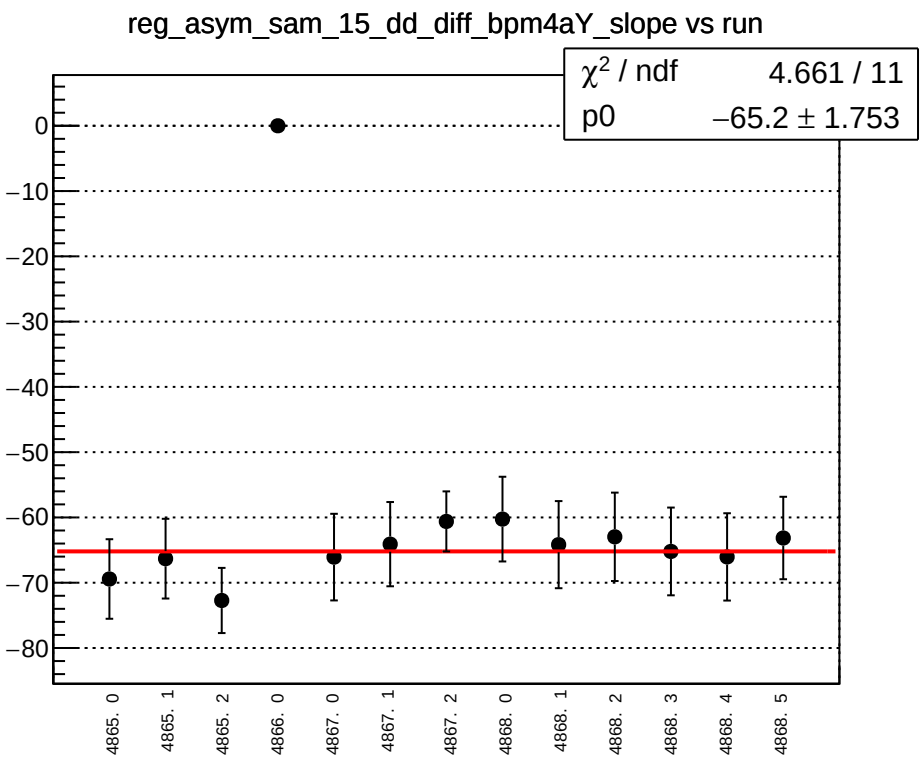

pull1D
Entries 13
Mean 0.05686
Std Dev 0.8868
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

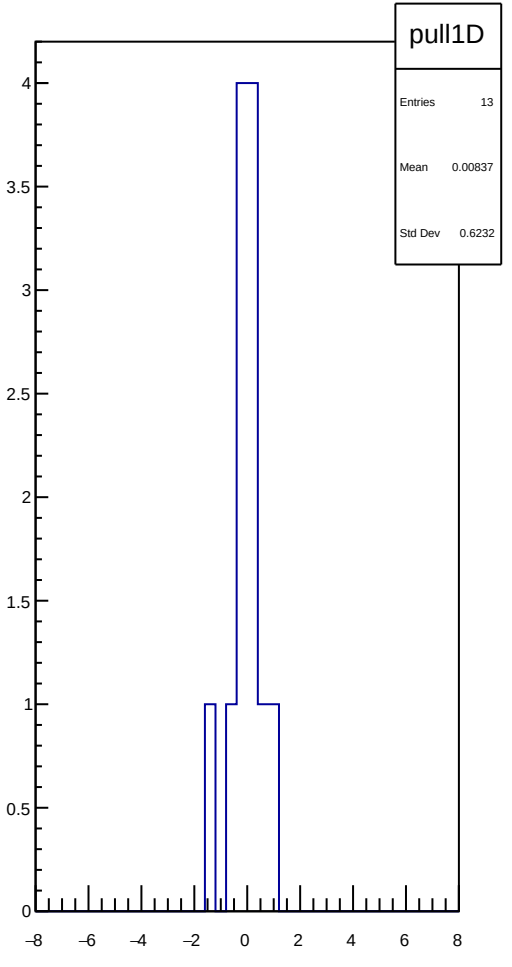

reg_asym_sam_15_avg_diff_bpm11X_slope vs run
χ² / ndf 28.22 / 11
p0 −2.346 ± 0.1551
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
−4
−4.5
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

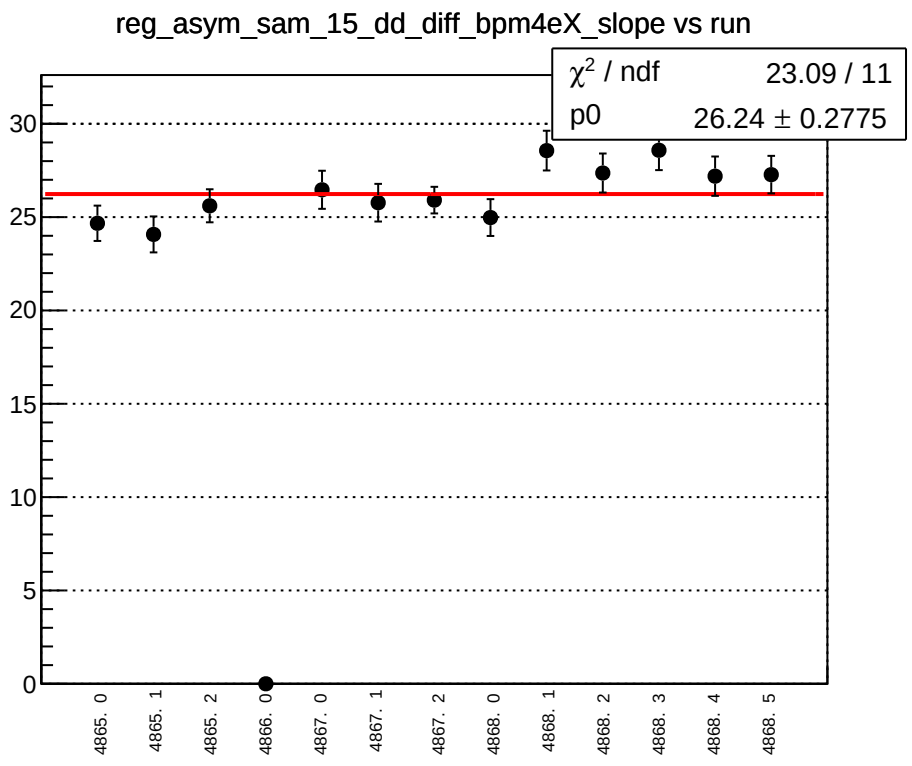

pull1D
Entries 13
Mean 0.04362
Std Dev 1.533
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

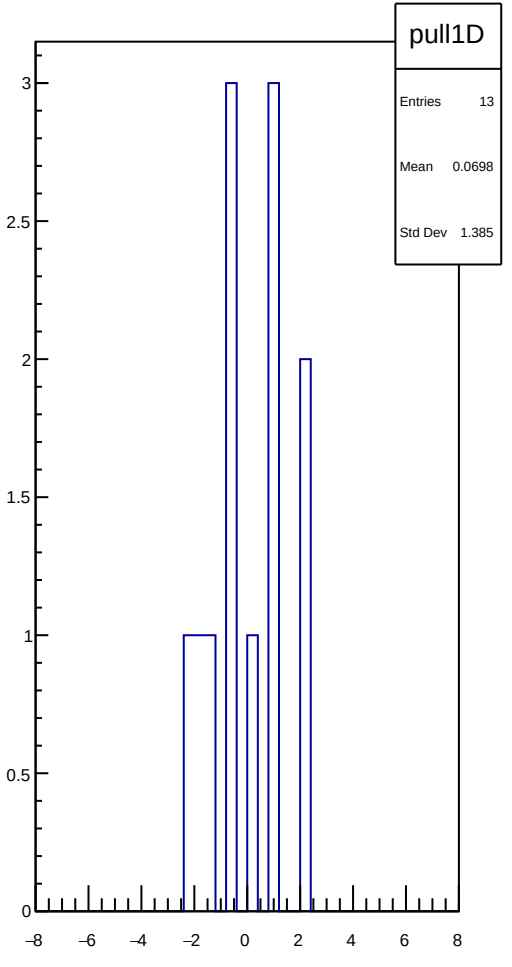

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 58.85 / 11
p0 −166.4 ± 1.453
0
−50
−100
−150
−200
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

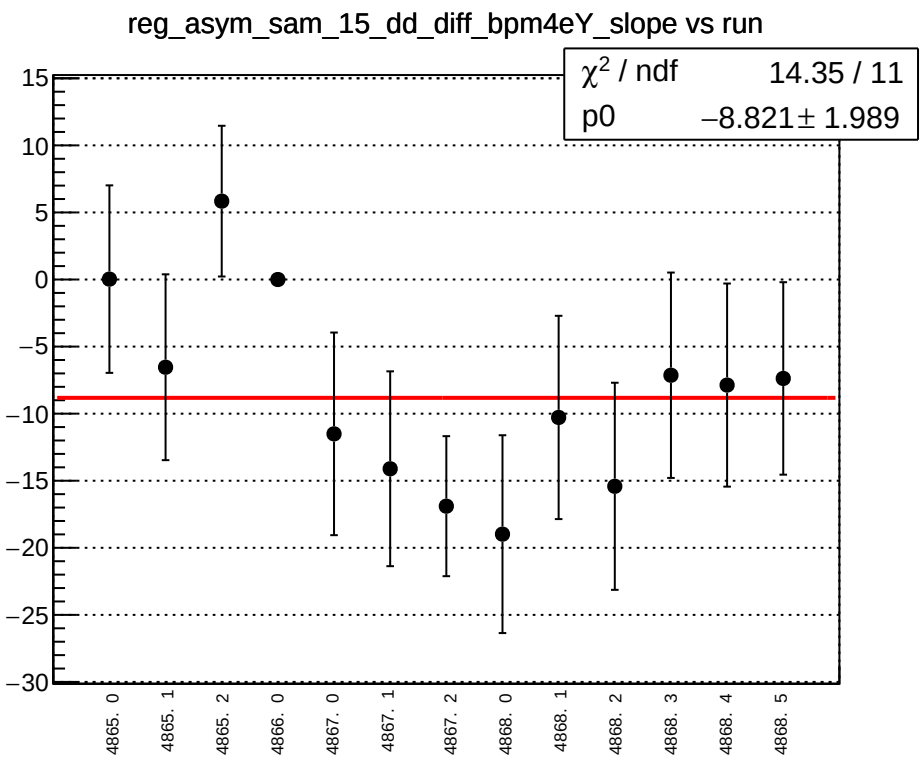

pull1D
Entries 13
Mean −0.05821
Std Dev 2.214
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

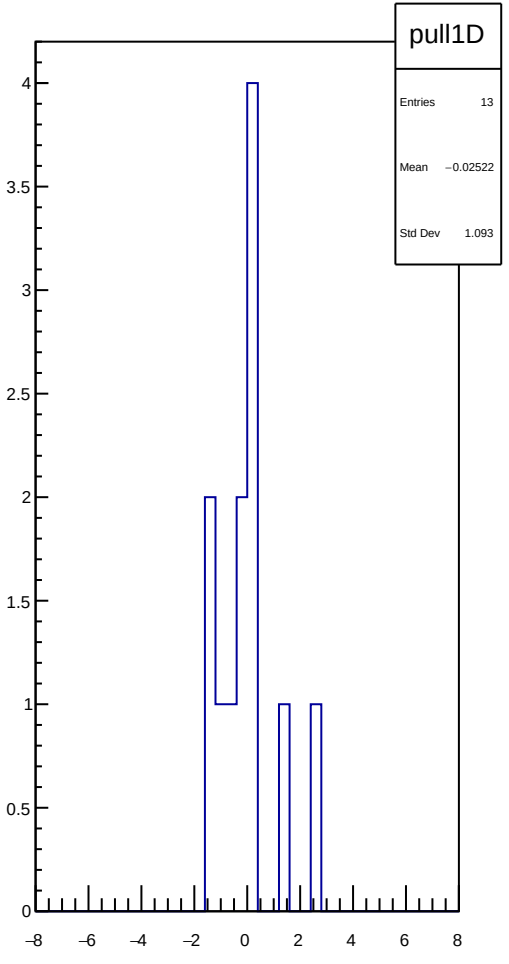

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.661 / 11
p0 −65.2 ± 1.753
0
−10
−20
−30
−40
−50
−60
−70
−80
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

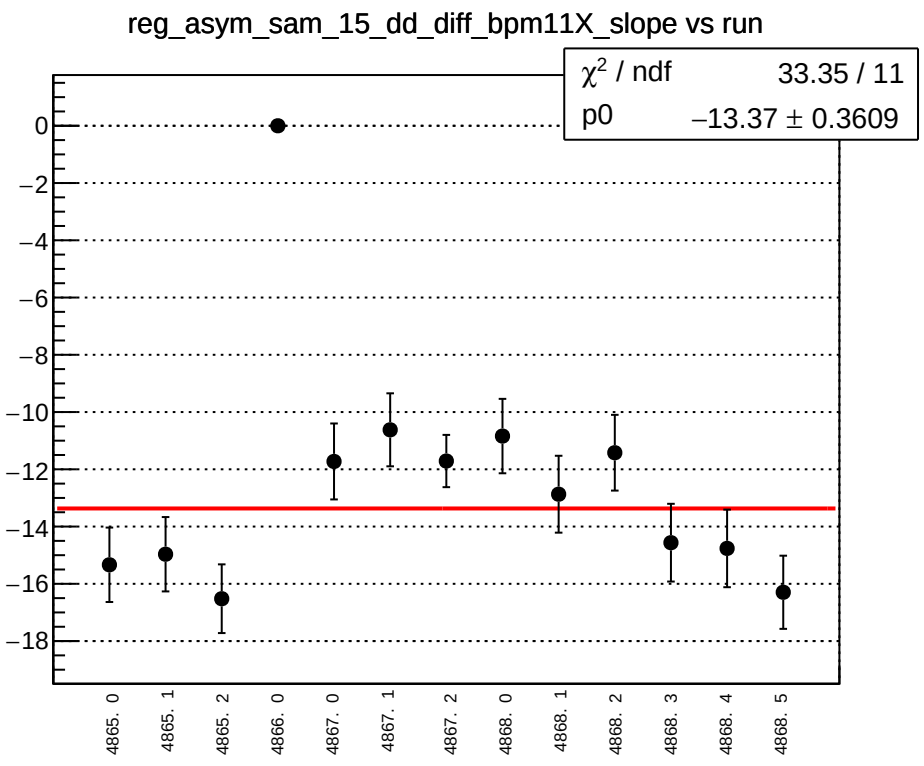

pull1D
Entries 13
Mean 0.00837
Std Dev 0.6232
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.09 / 11
p0 26.24 ± 0.2775
30
25
20
15
10
5
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.0698
Std Dev 1.385
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.35 / 11
p0 −8.821 ± 1.989
15
10
5
0
−5
−10
−15
−20
−25
−30
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.02522
Std Dev 1.093
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_15_dd_diff_bpm11X_slope vs run
χ² / ndf 33.35 / 11
p0 −13.37 ± 0.3609
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
4865. 0
4865. 1
4865. 2
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4867. 1
4867. 2
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4868. 2
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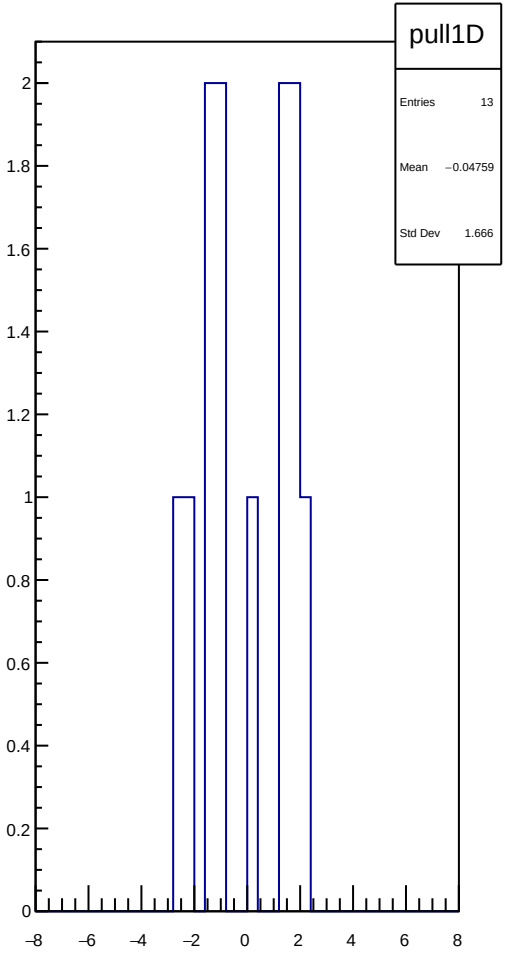
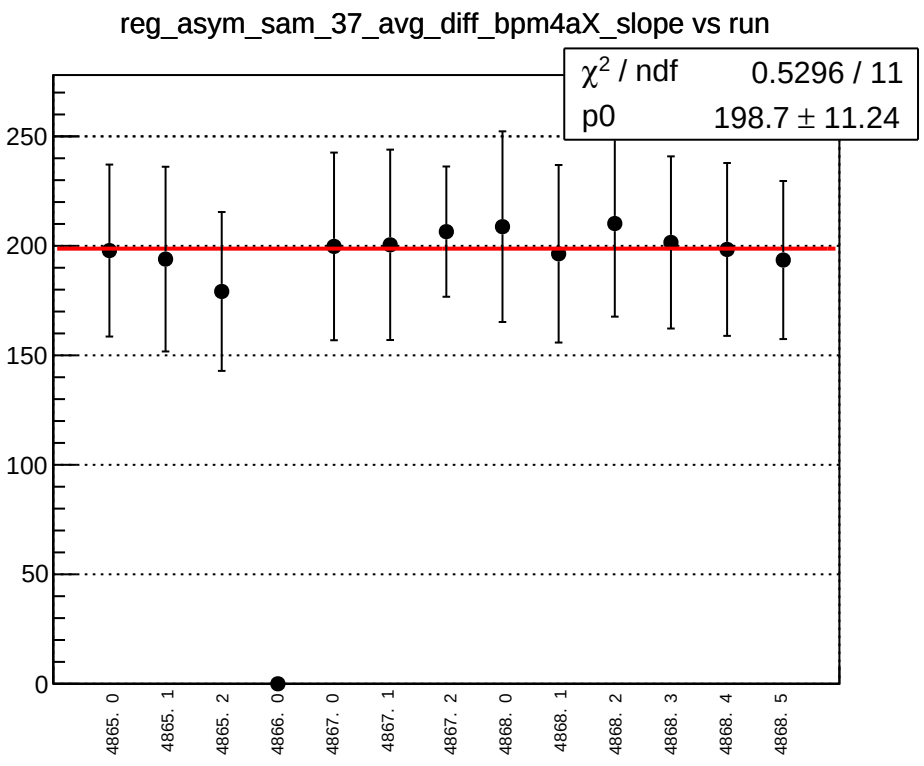
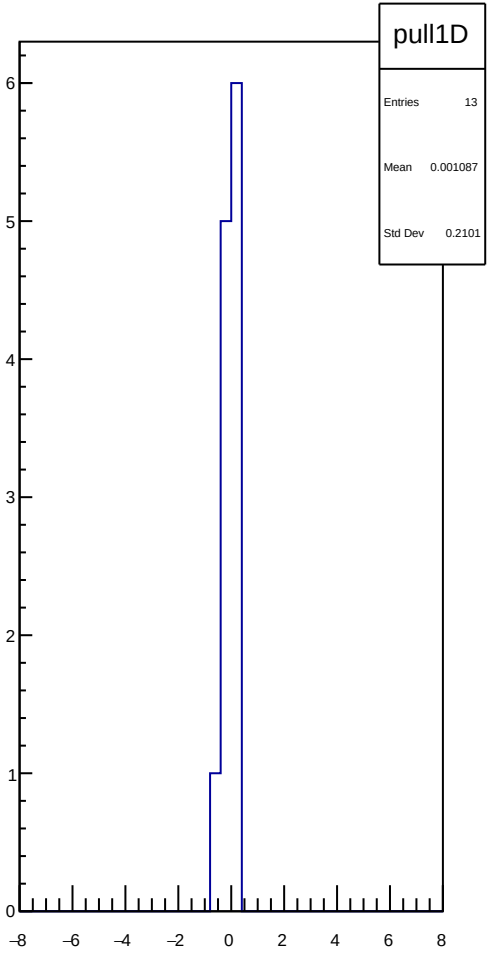
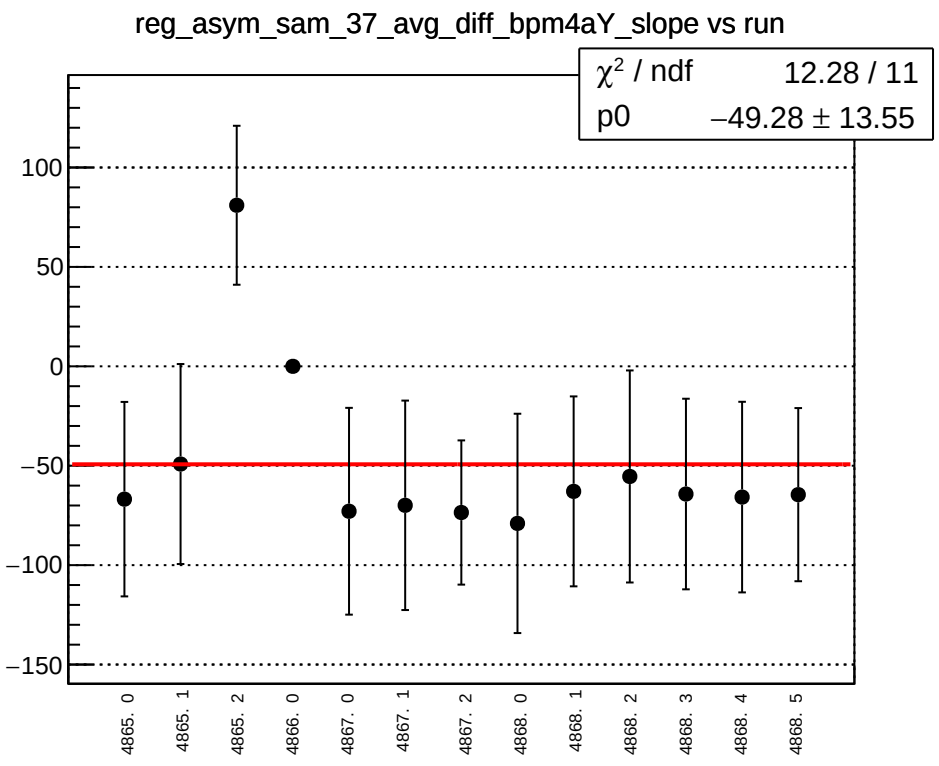
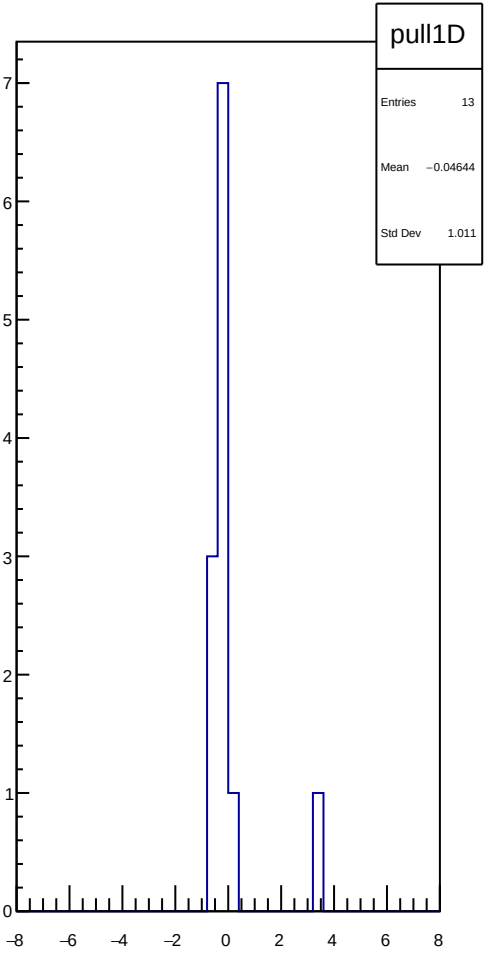
4868. 4
4868. 5

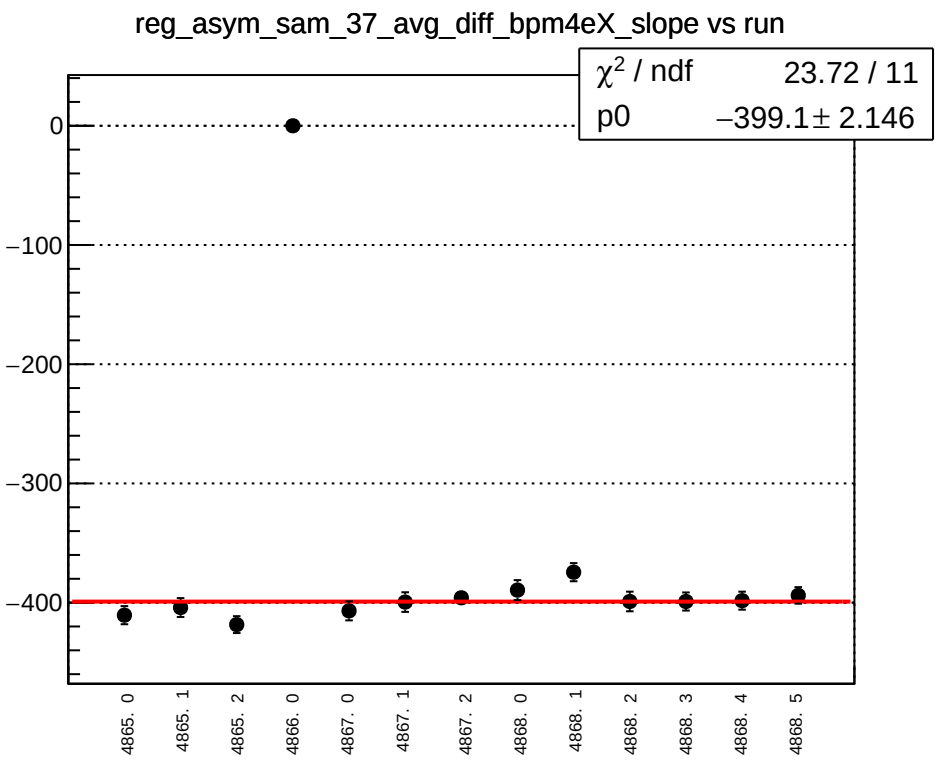

pull1D
Entries 13
Mean −0.04759
Std Dev 1.666
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

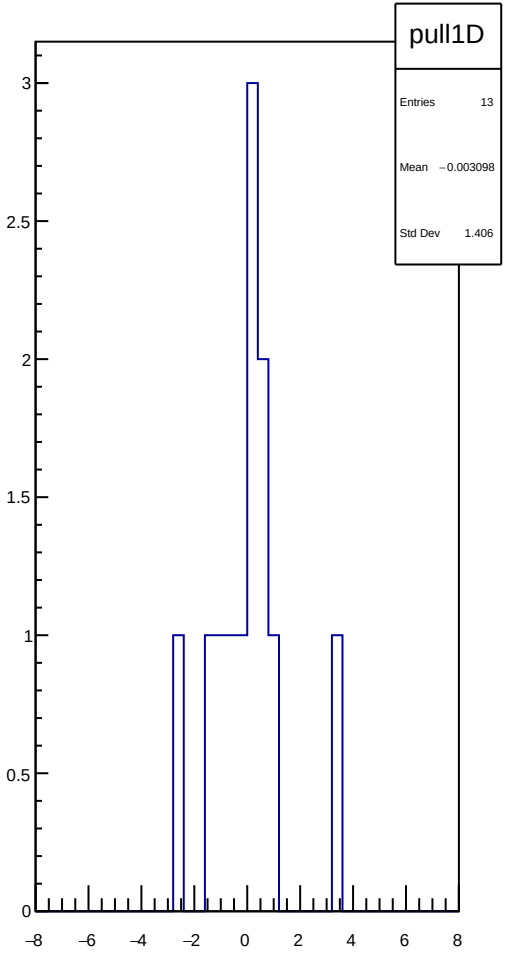

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 0.5296 / 11
p0 198.7 ± 11.24
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

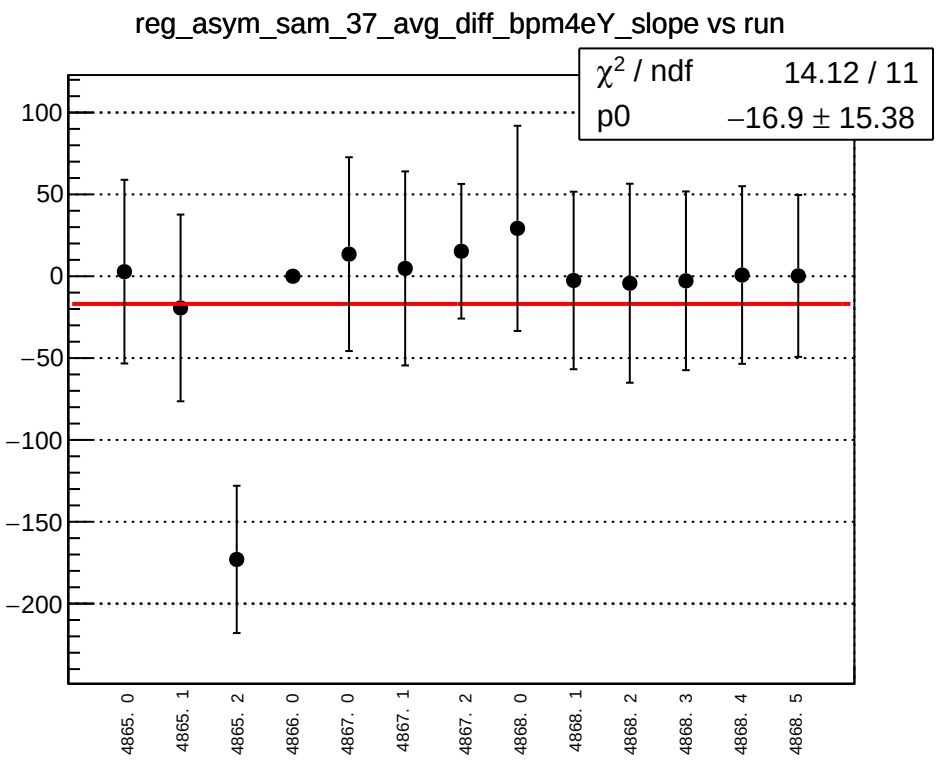

pull1D
Entries 13
Mean 0.001087
Std Dev 0.2101
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

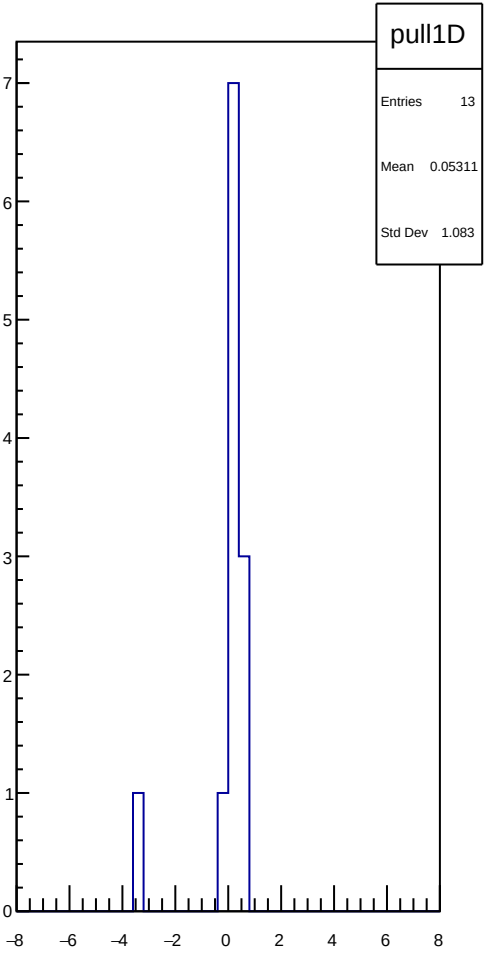

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.28 / 11
p0 −49.28 ± 13.55
100
50
0
−50
−100
−150
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

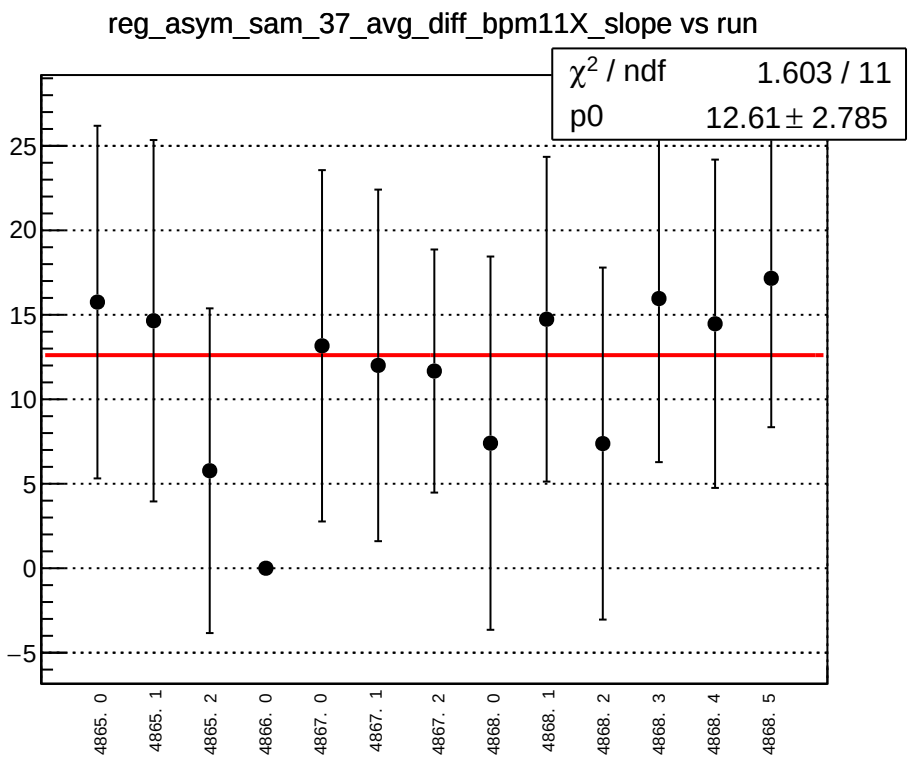

pull1D
Entries 13
Mean −0.04644
Std Dev 1.011
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

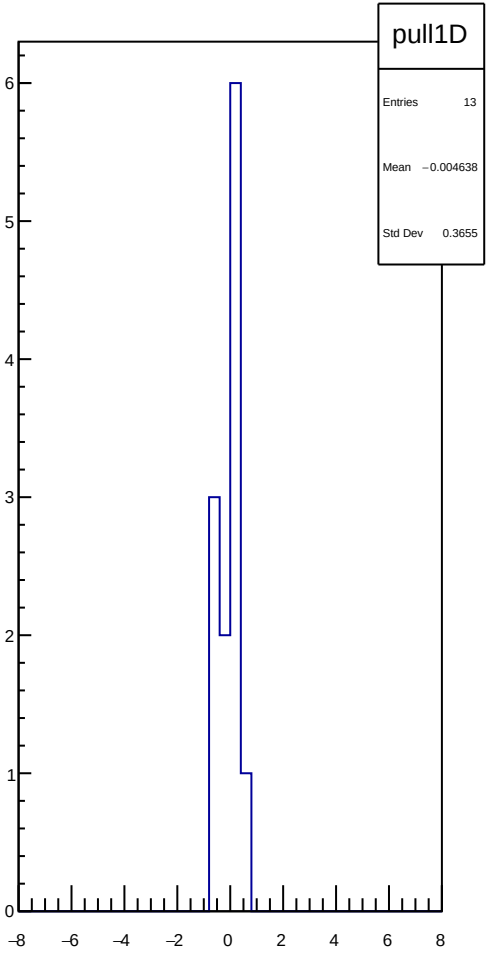

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 23.72 / 11
p0 −399.1 ± 2.146
0
−100
−200
−300
−400
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

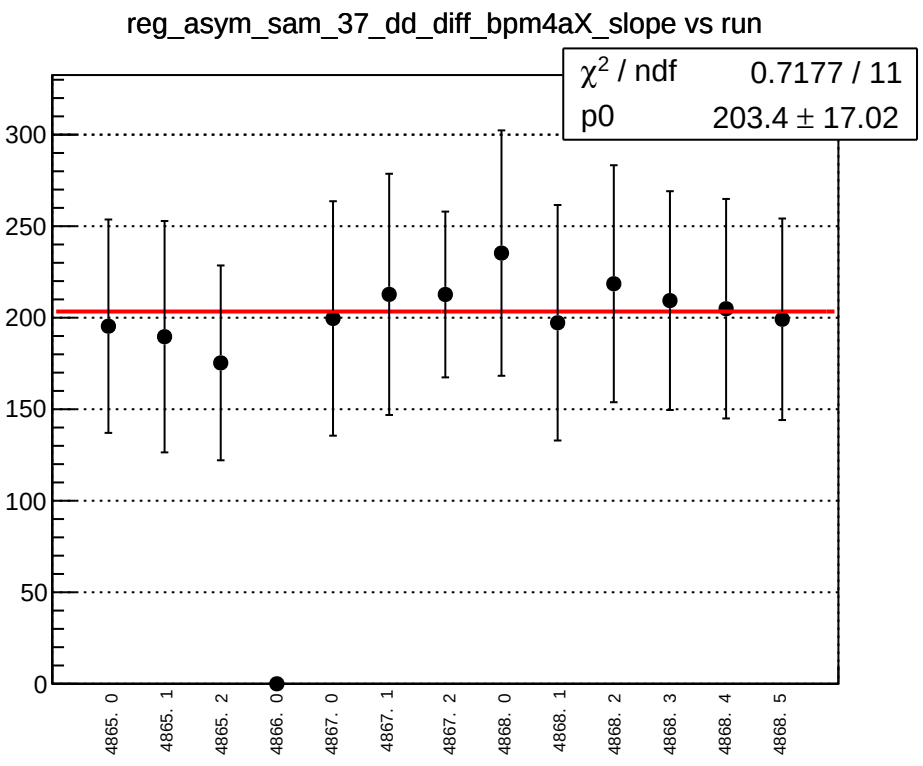

pull1D
Entries 13
Mean −0.003098
Std Dev 1.406
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

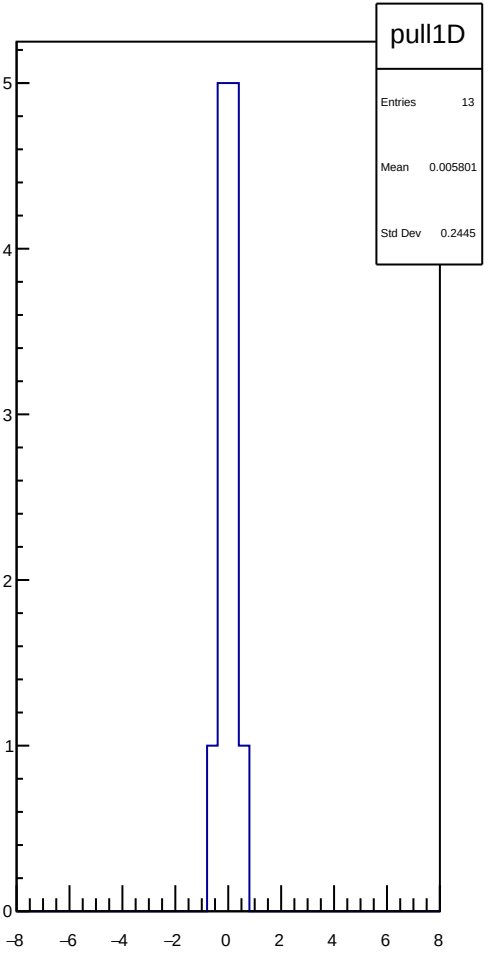

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.12 / 11
p0 −16.9 ± 15.38
100
50
0
−50
−100
−150
−200
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

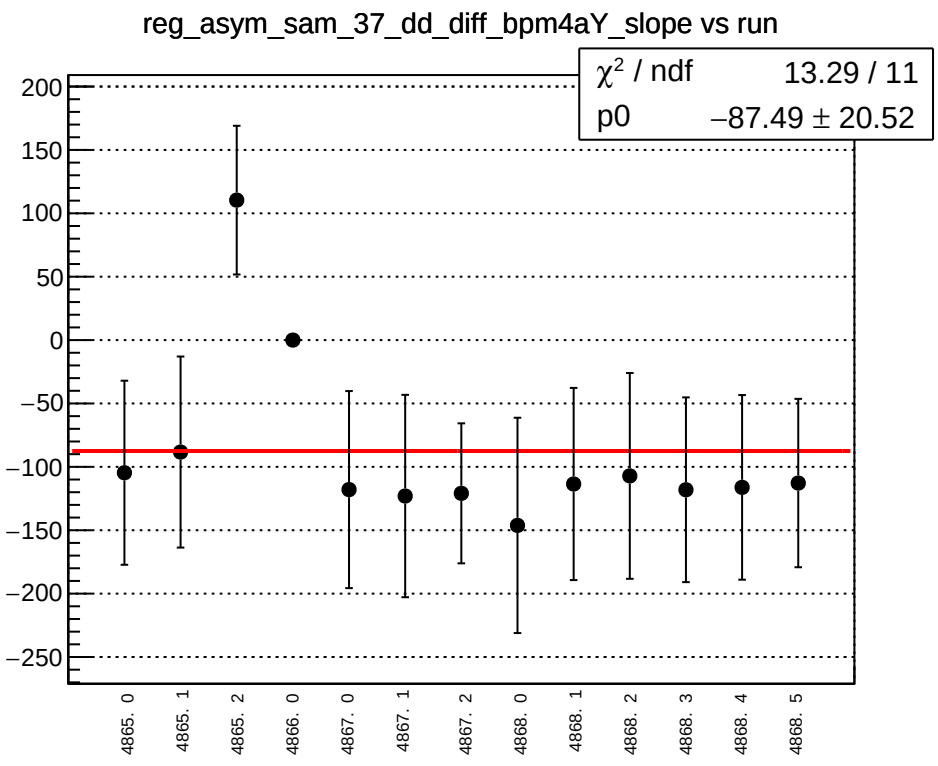

pull1D
Entries 13
Mean 0.05311
Std Dev 1.083
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

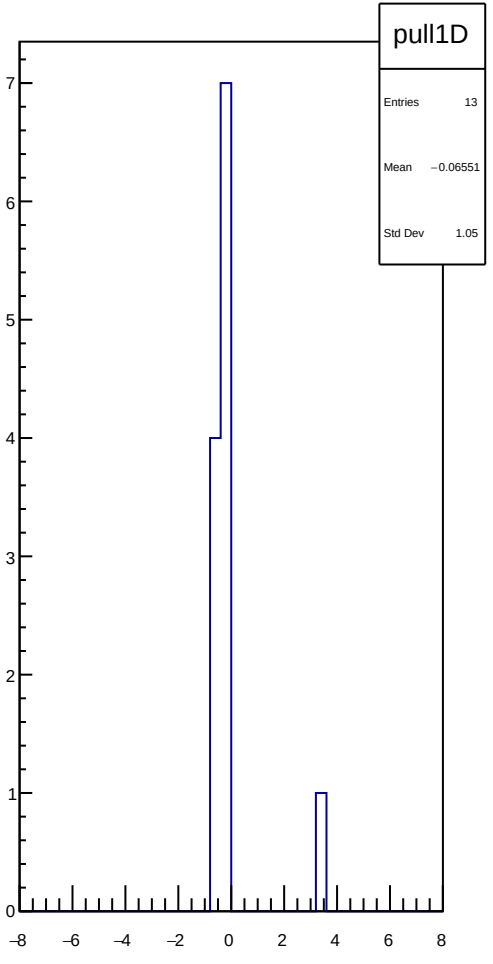

reg_asym_sam_37_avg_diff_bpm11X_slope vs run
χ² / ndf 1.603 / 11
p0 12.61 ± 2.785
25
20
15
10
5
0
−5
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

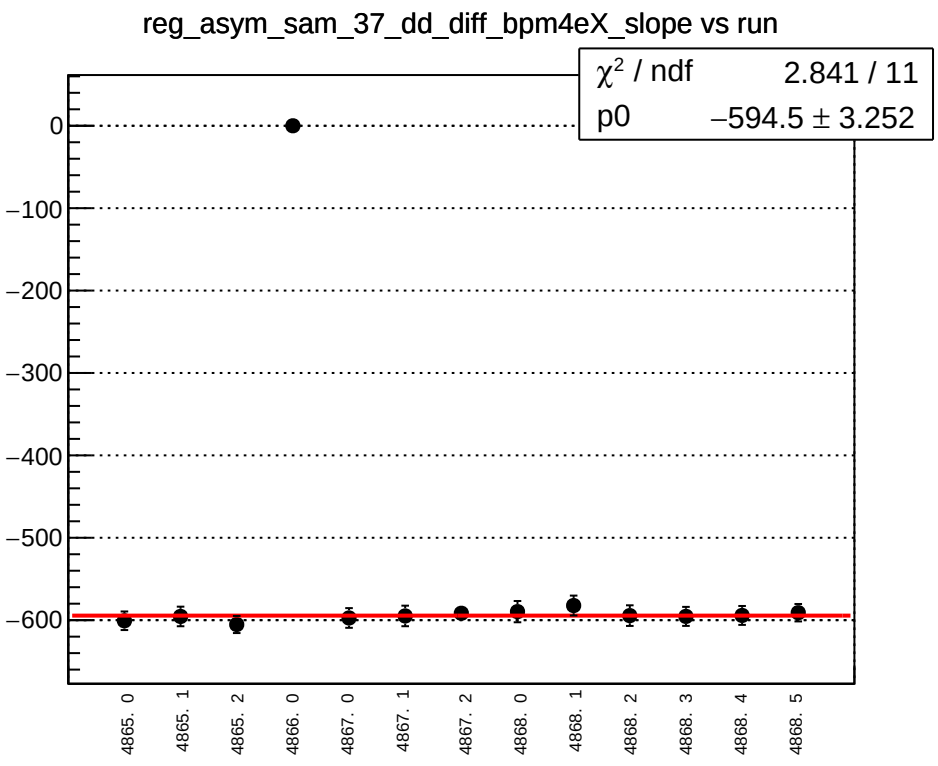

pull1D
Entries 13
Mean −0.004638
Std Dev 0.3655
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

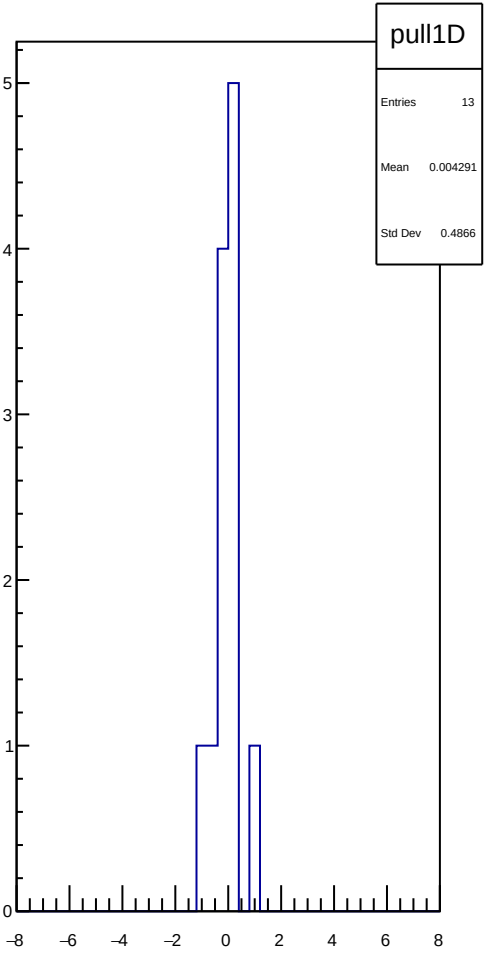

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 0.7177 / 11
p0 203.4 ± 17.02
300
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

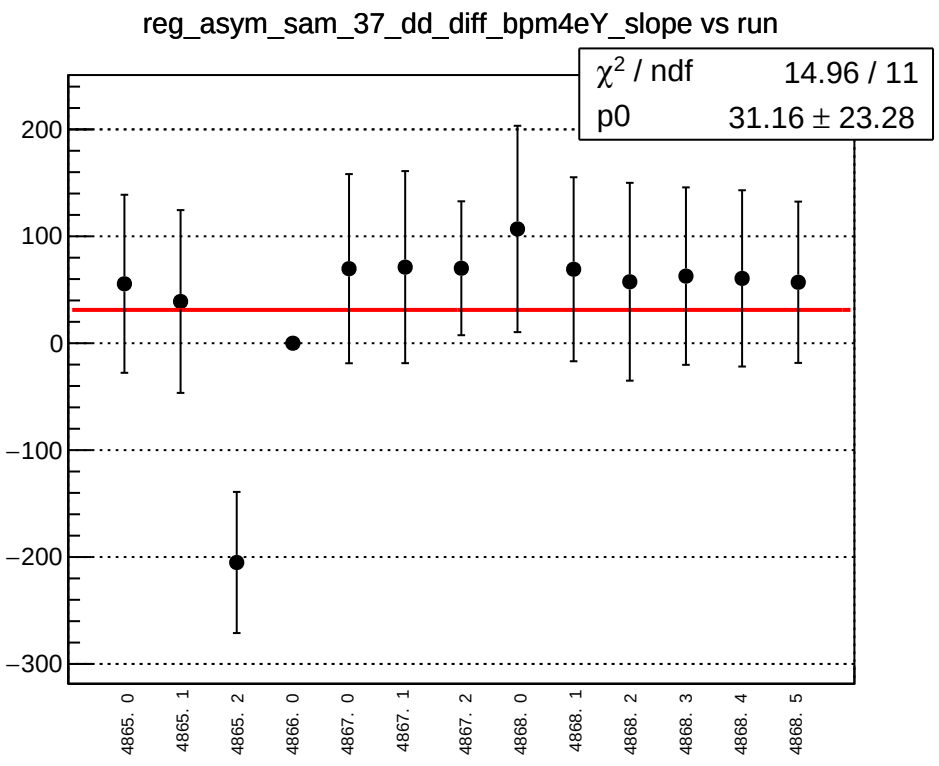

pull1D
Entries 13
Mean 0.005801
Std Dev 0.2445
5
4
3
2
1
0
–8
–6
–4
–2
0
2
4
6
8

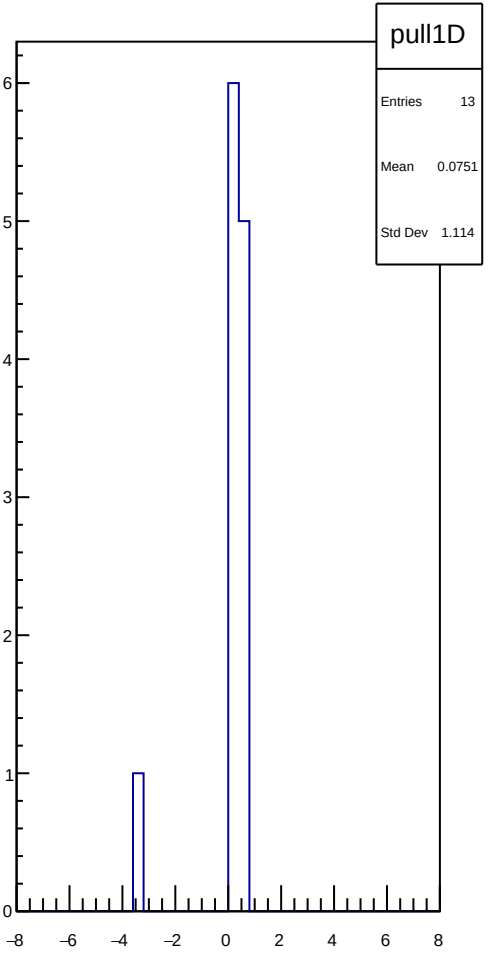

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.29 / 11
p0 −87.49 ± 20.52
200
150
100
50
0
−50
−100
−150
−200
−250
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

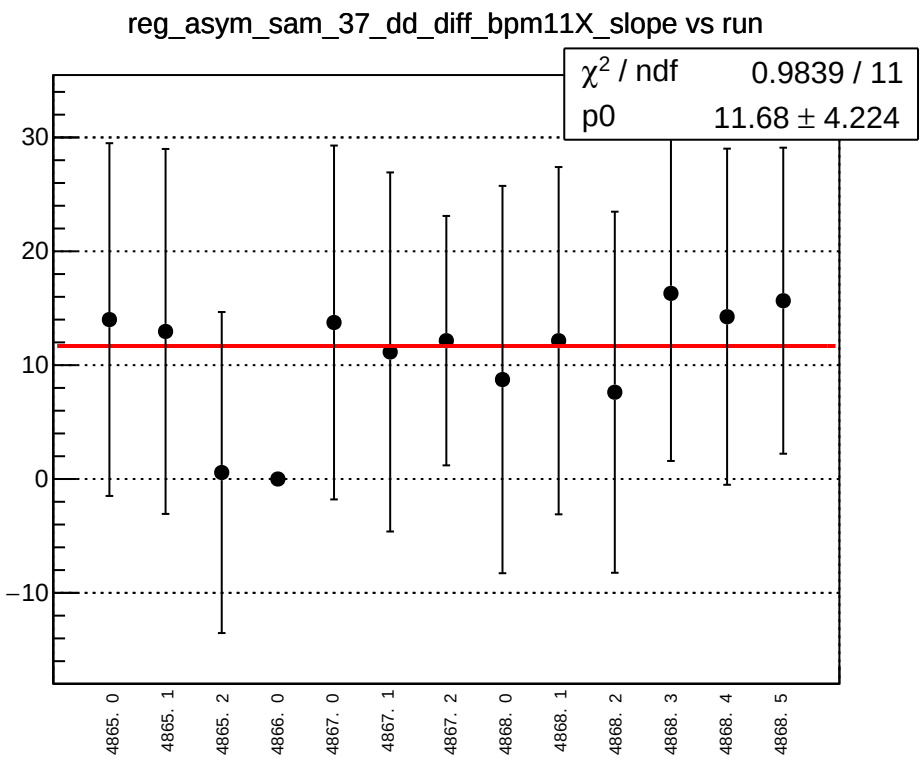

pull1D
Entries 13
Mean −0.06551
Std Dev 1.05
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.841 / 11
p0 −594.5 ± 3.252
0
−100
−200
−300
−400
−500
−600
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.004291
Std Dev 0.4866
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.96 / 11
p0 31.16 ± 23.28
200
100
0
−100
−200
−300
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.0751
Std Dev 1.114
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_37_dd_diff_bpm11X_slope vs run
χ² / ndf 0.9839 / 11
p0 11.68 ± 4.224
30
20
10
0
−10
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
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4868. 2
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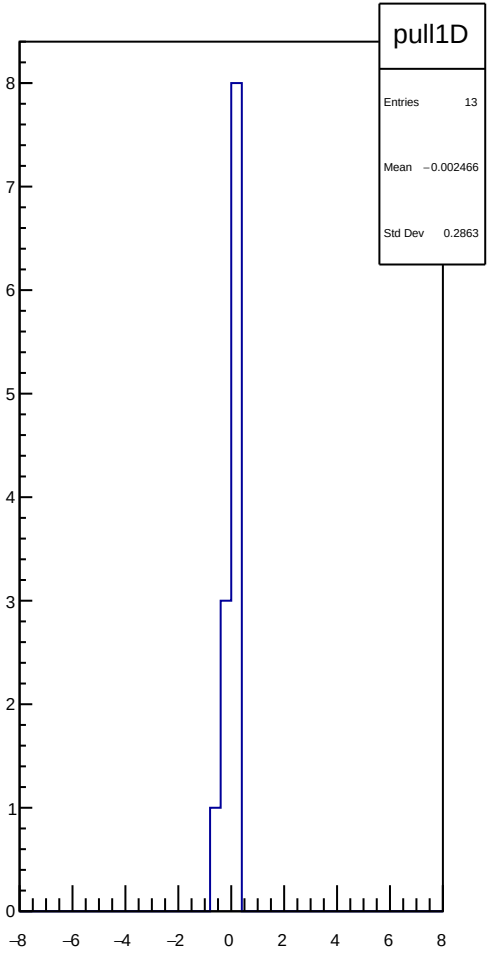
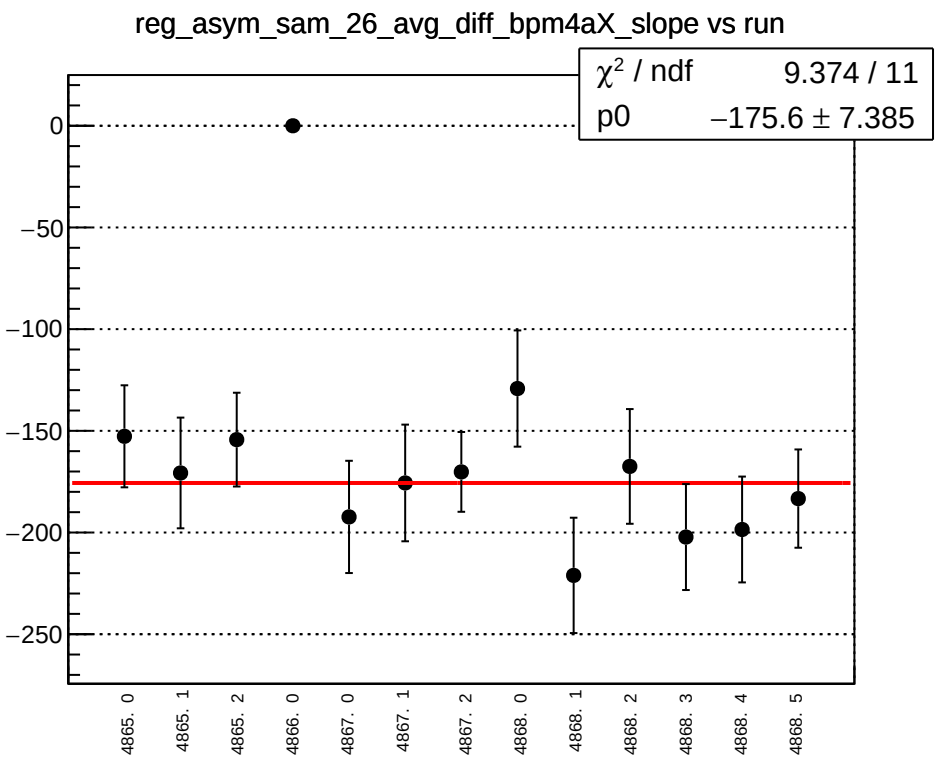
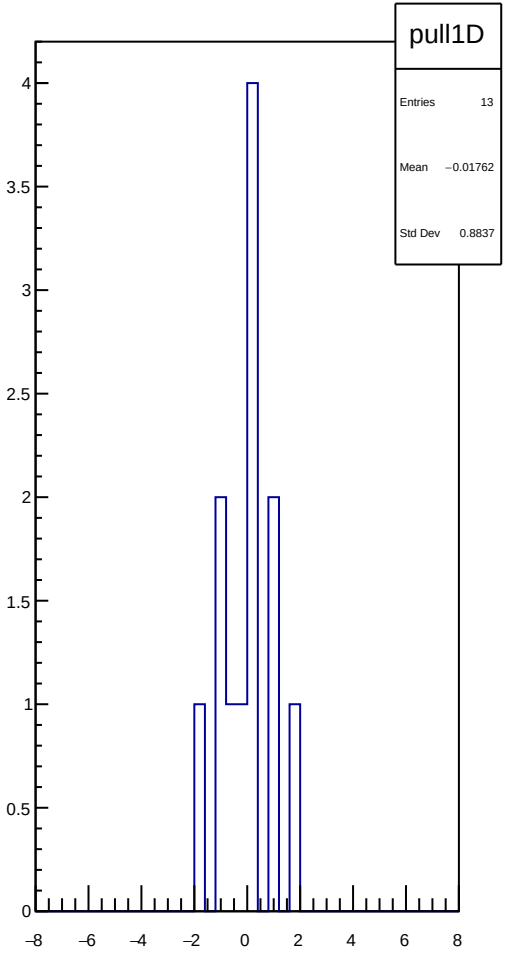
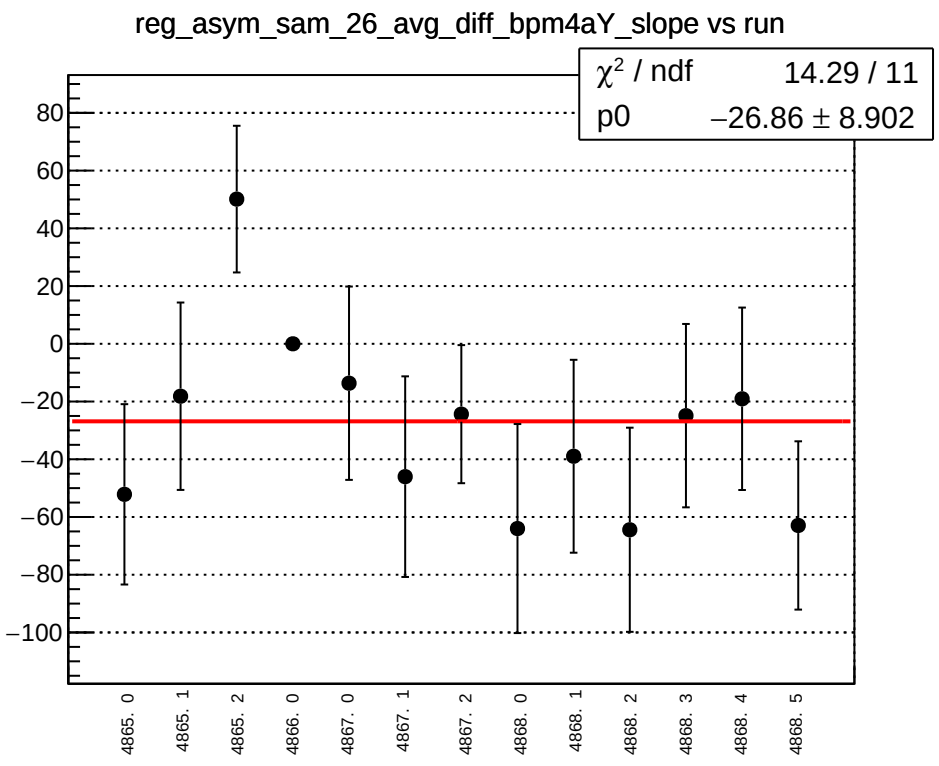
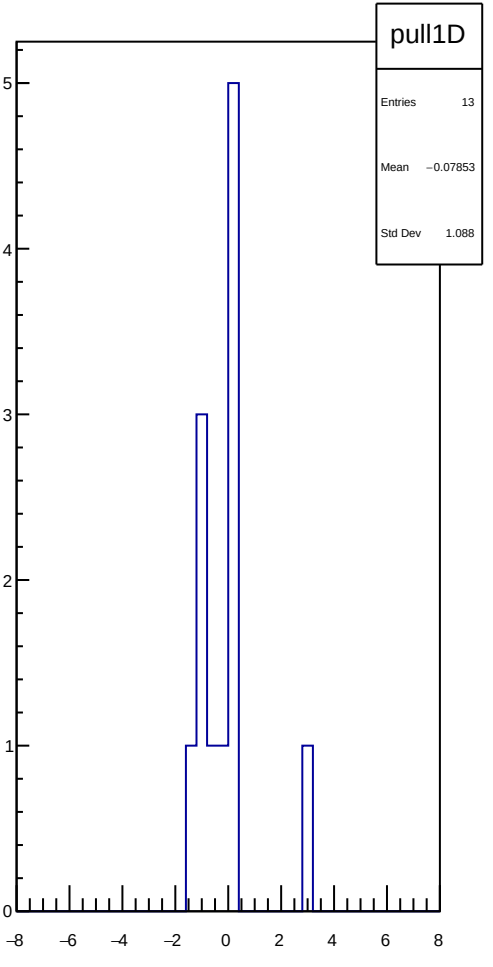
4868. 4
4868. 5

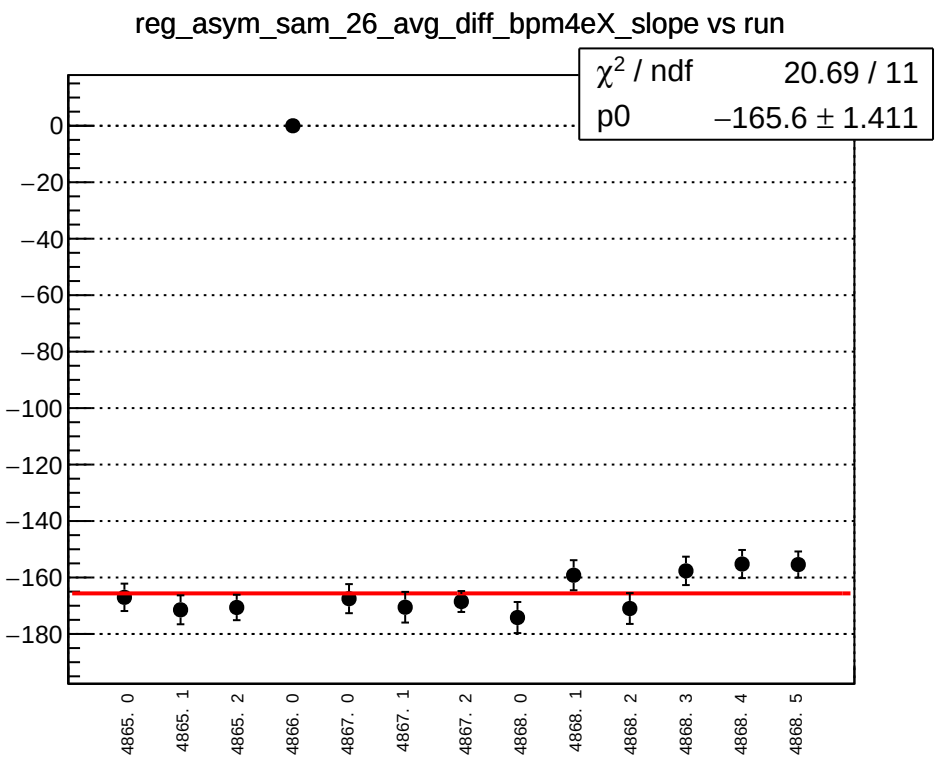

pull1D
Entries 13
Mean −0.002466
Std Dev 0.2863
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

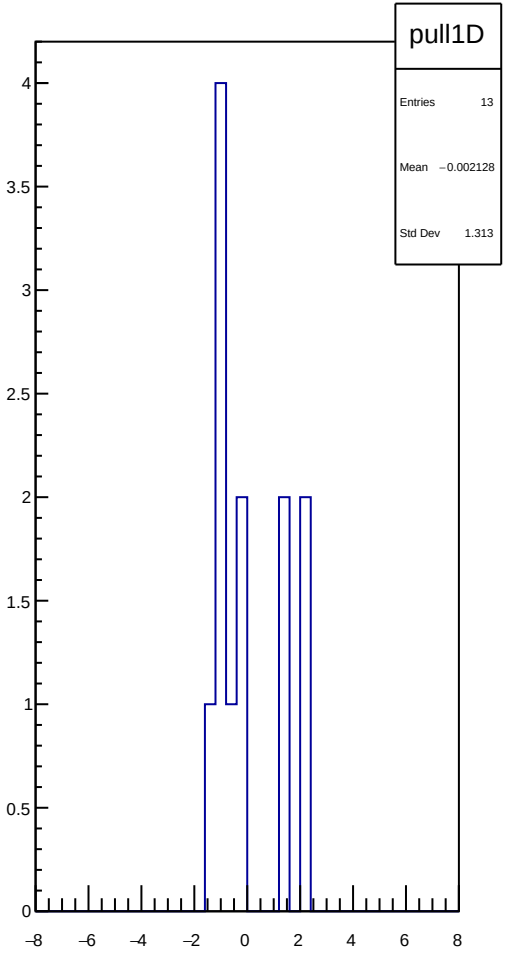

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 9.374 / 11
p0 −175.6 ± 7.385
0
−50
−100
−150
−200
−250
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

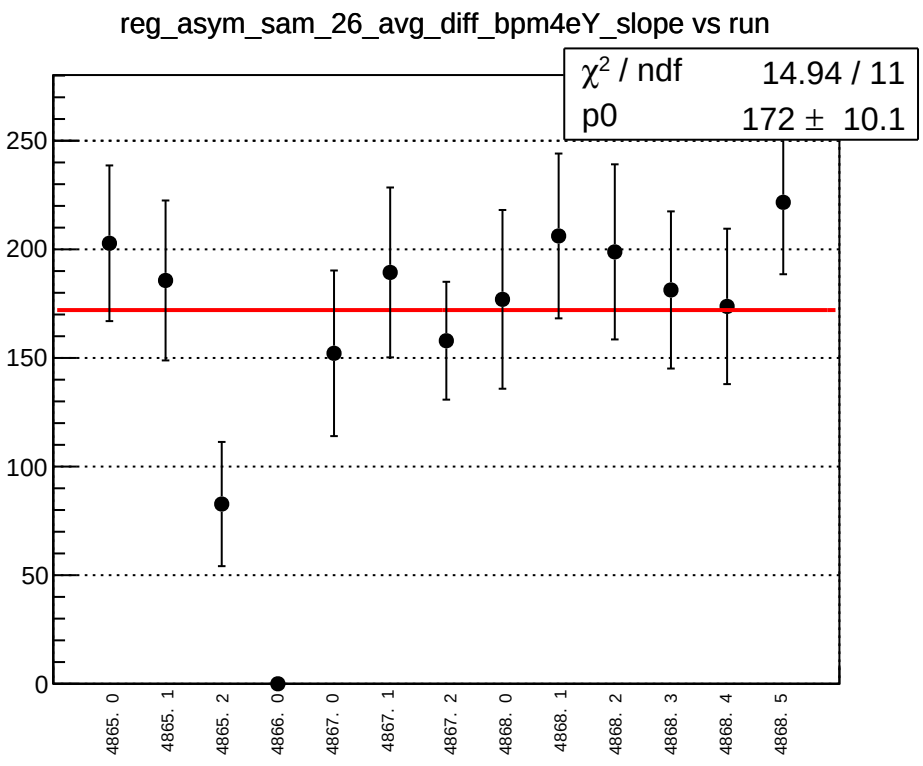

pull1D
Entries 13
Mean −0.01762
Std Dev 0.8837
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

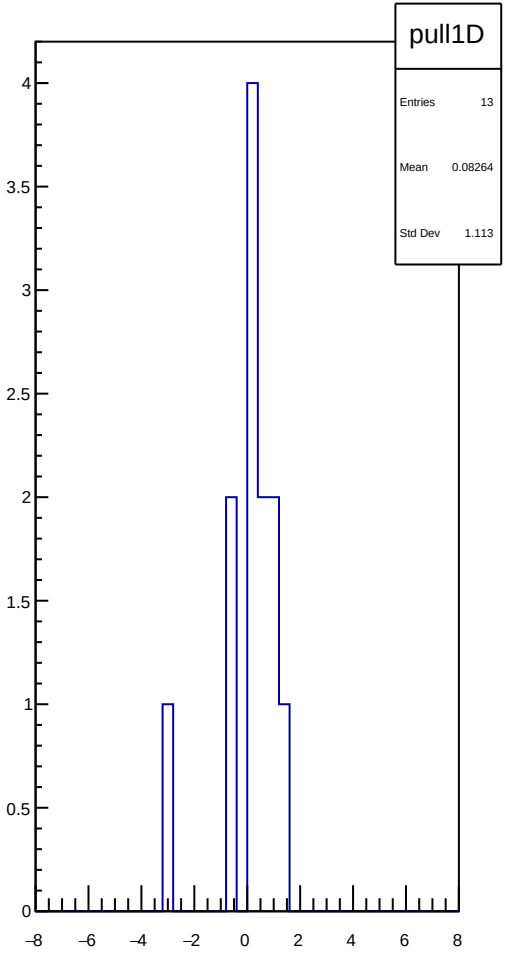

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.29 / 11
p0 −26.86 ± 8.902
80
60
40
20
0
−20
−40
−60
−80
−100
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

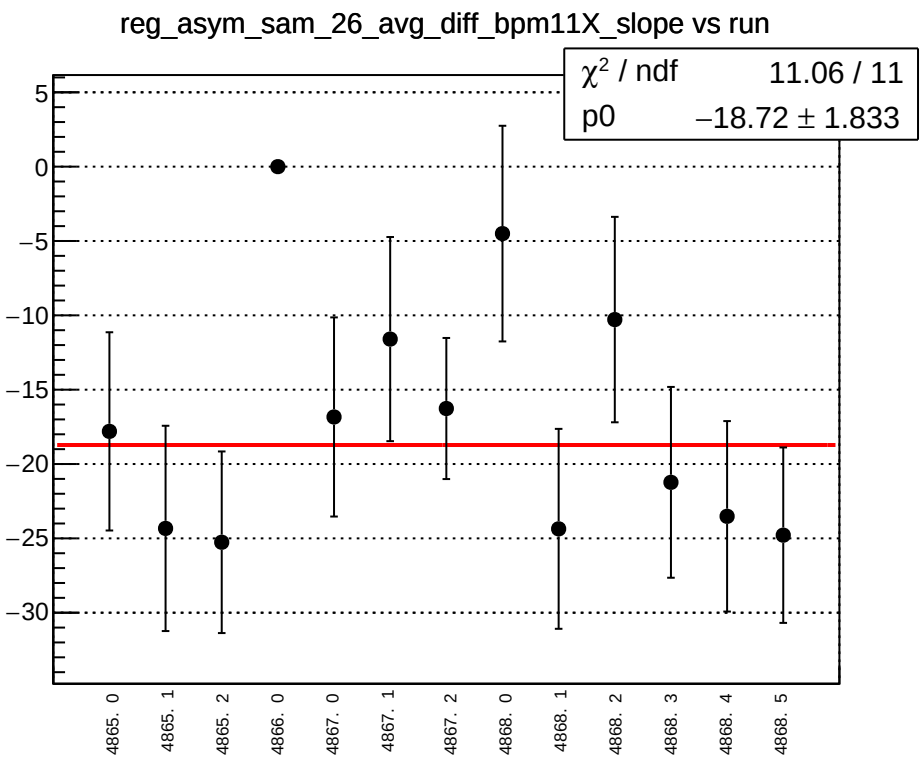

pull1D
Entries 13
Mean −0.07853
Std Dev 1.088
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

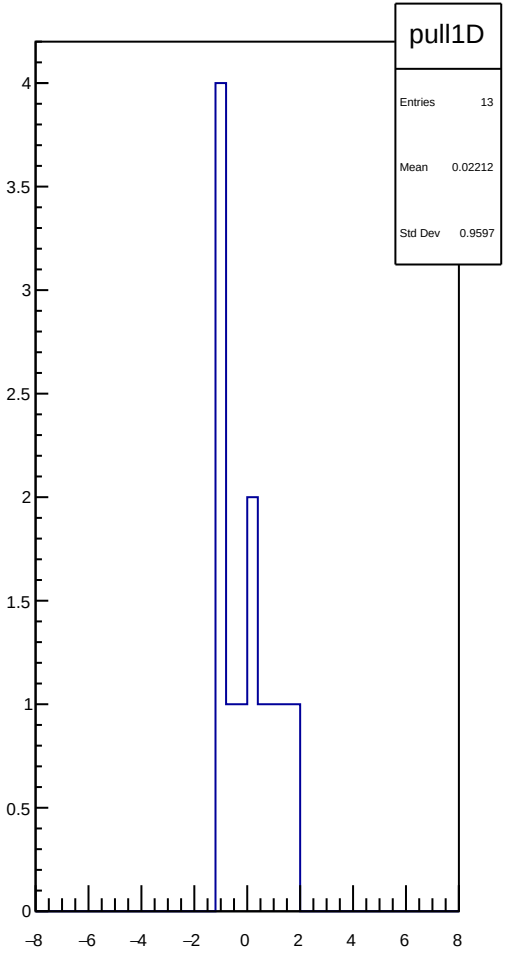

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 20.69 / 11
p0 −165.6 ± 1.411
0
−20
−40
−60
−80
−100
−120
−140
−160
−180
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

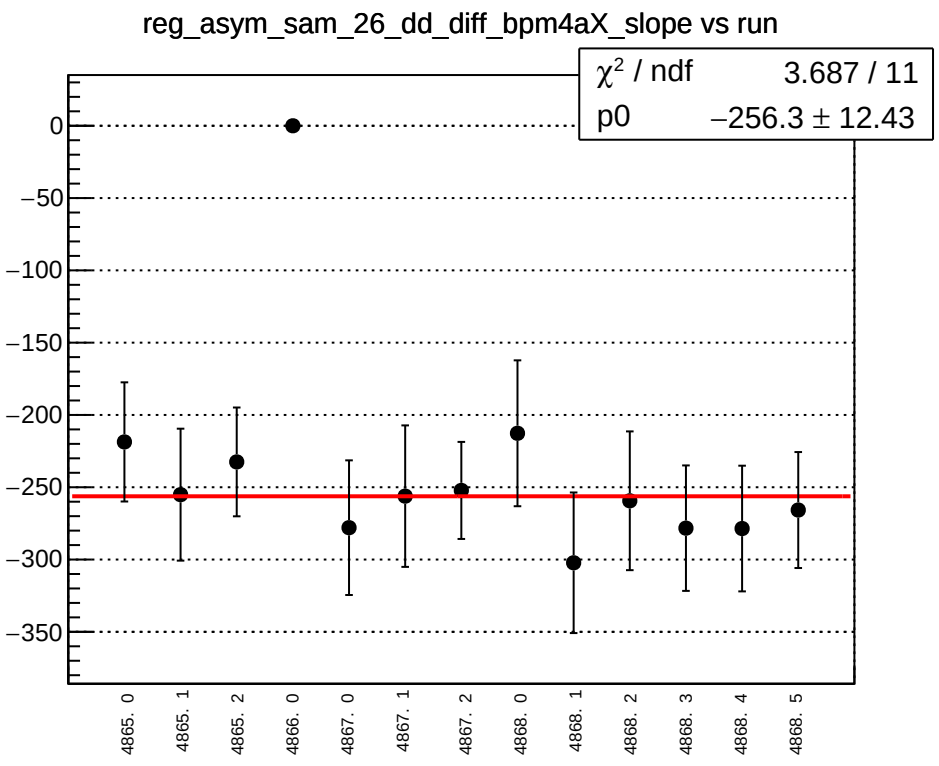

pull1D
Entries 13
Mean −0.002128
Std Dev 1.313
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

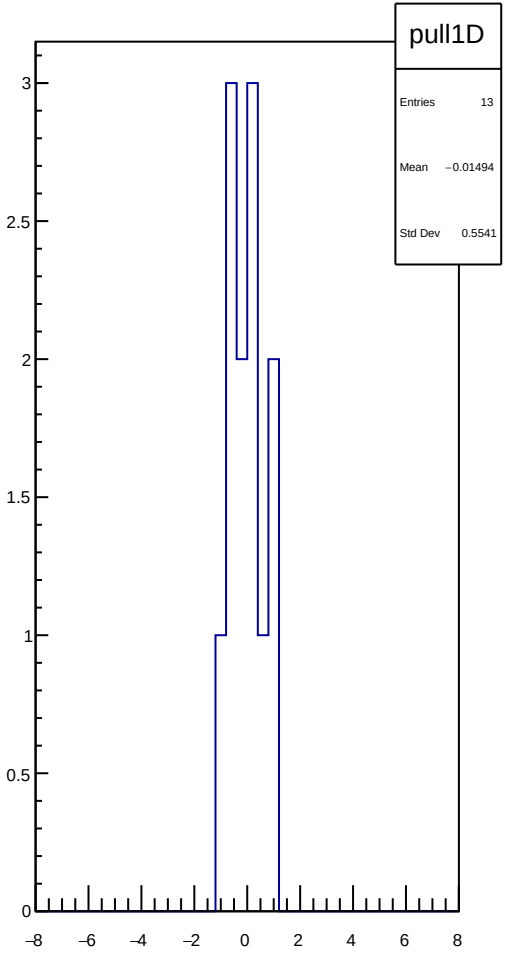

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.94 / 11
p0 172 ± 10.1
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.08264
Std Dev 1.113
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_26_avg_diff_bpm11X_slope vs run
χ² / ndf 11.06 / 11
p0 −18.72 ± 1.833
5
0
−5
−10
−15
−20
−25
−30
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.02212
Std Dev 0.9597
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 3.687 / 11
p0 −256.3 ± 12.43
0
−50
−100
−150
−200
−250
−300
−350
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.01494
Std Dev 0.5541
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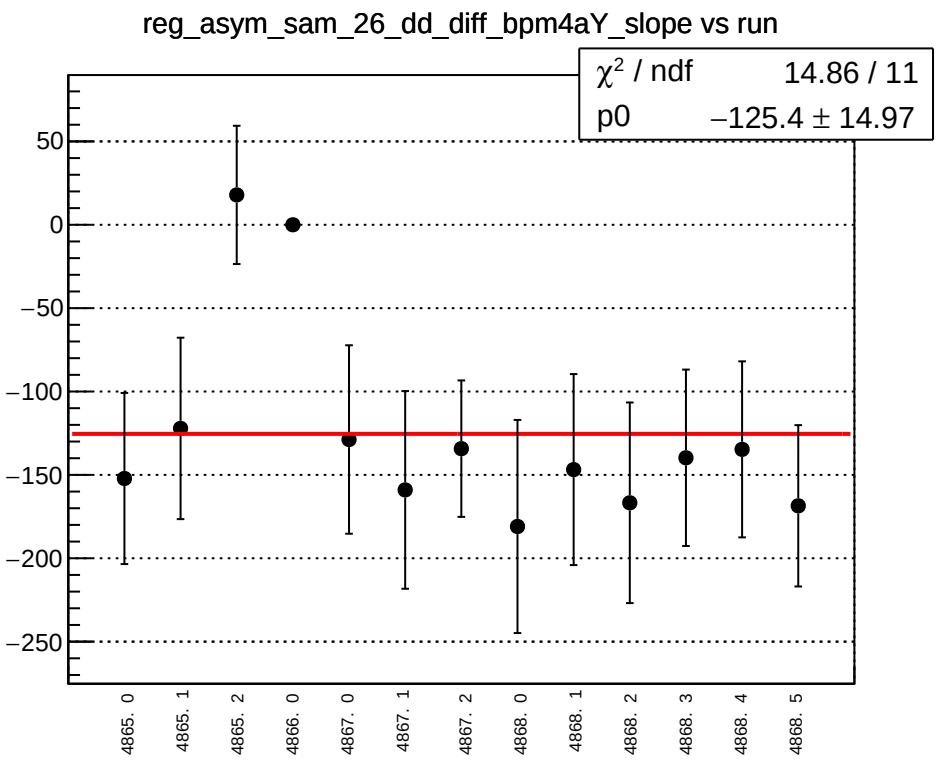
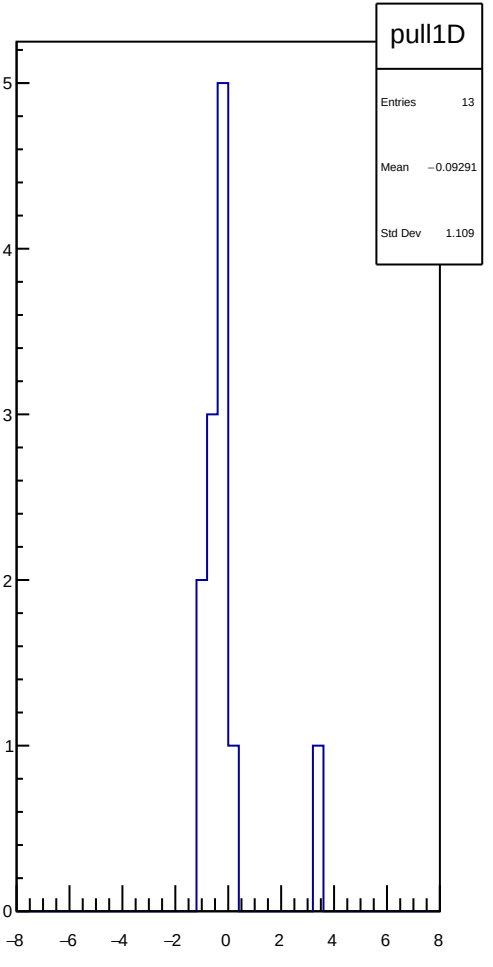
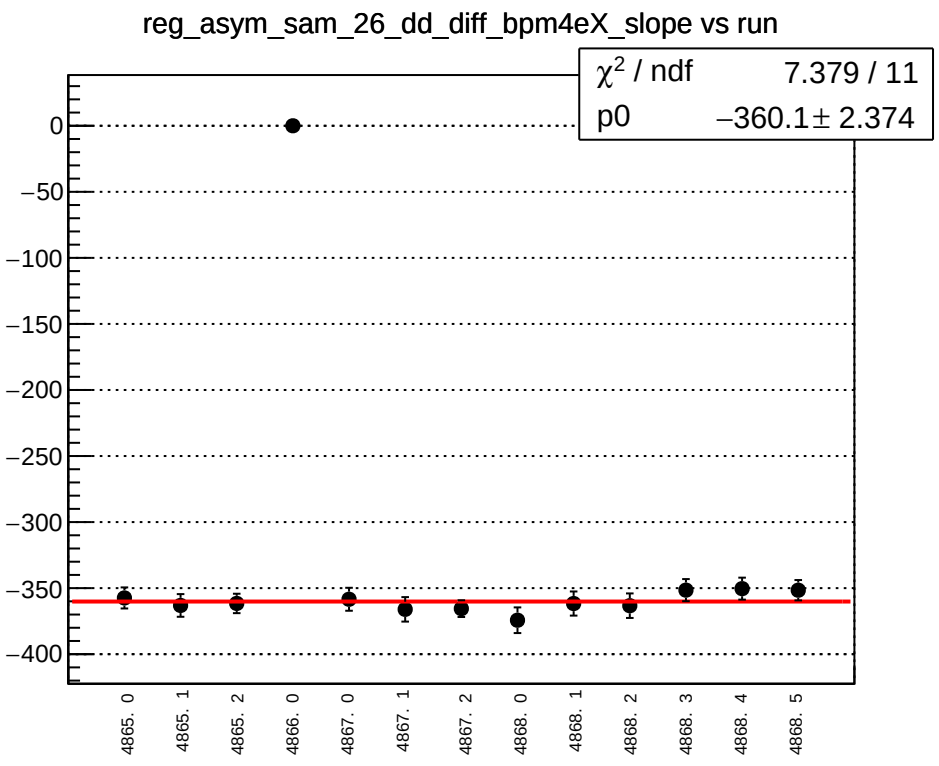
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.86 / 11
p0 −125.4 ± 14.97
50
0
−50
−100
−150
−200
−250
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.09291
Std Dev 1.109
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.379 / 11
p0 −360.1± 2.374
0
−50
−100
−150
−200
−250
−300
−350
−400
4865. 0
4865. 1
4865. 2
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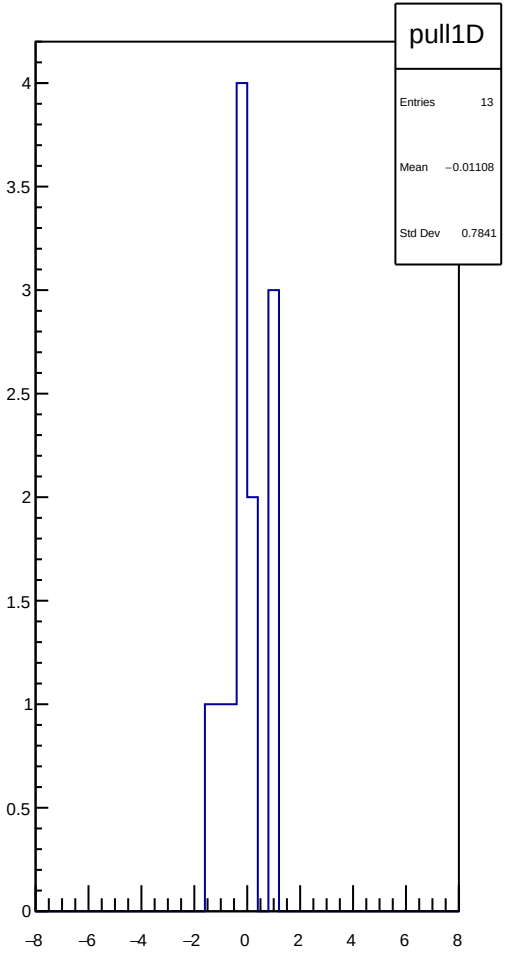
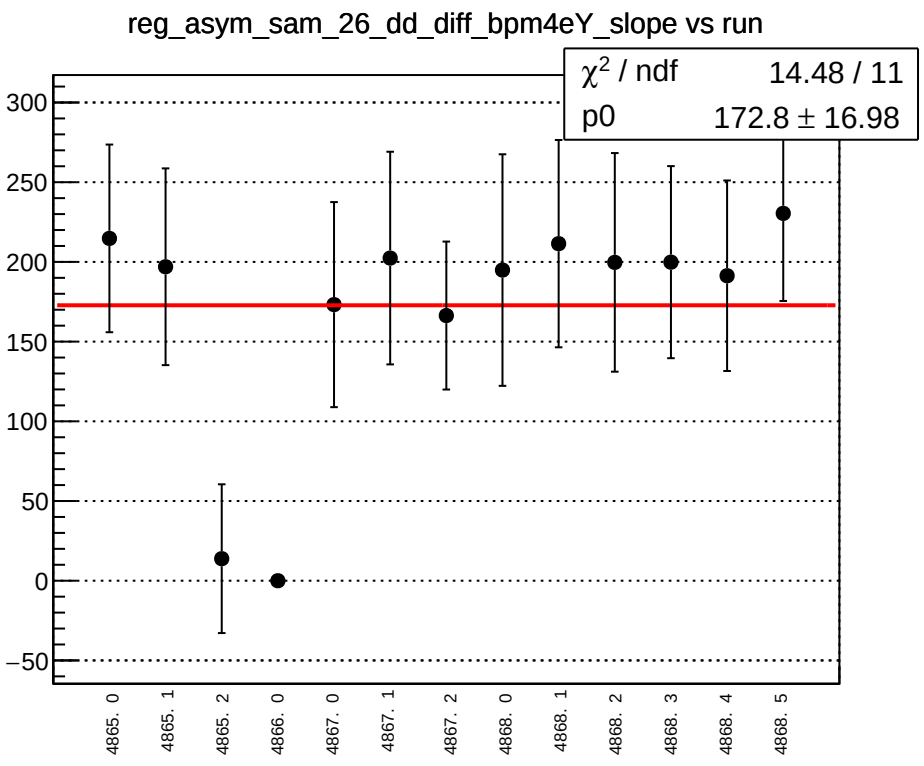
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.01108
Std Dev 0.7841
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.48 / 11
p0 172.8 ± 16.98
300
250
200
150
100
50
0
−50
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
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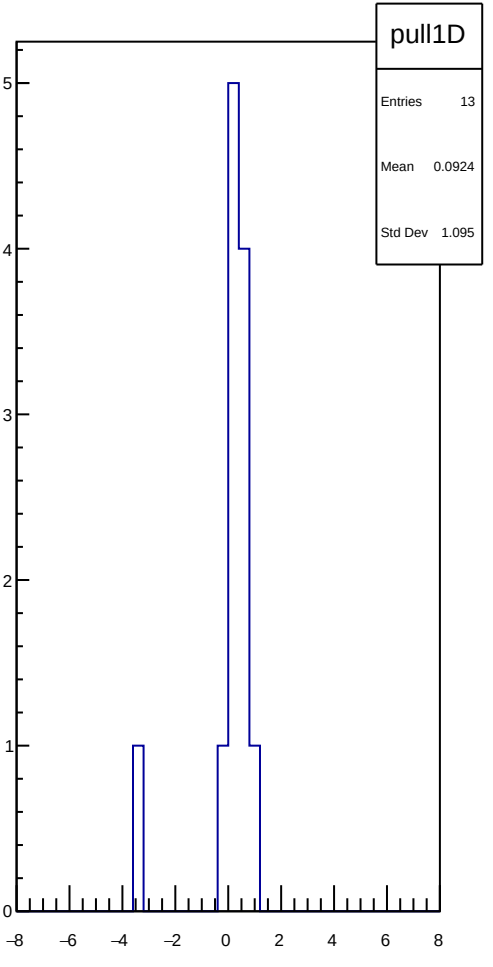
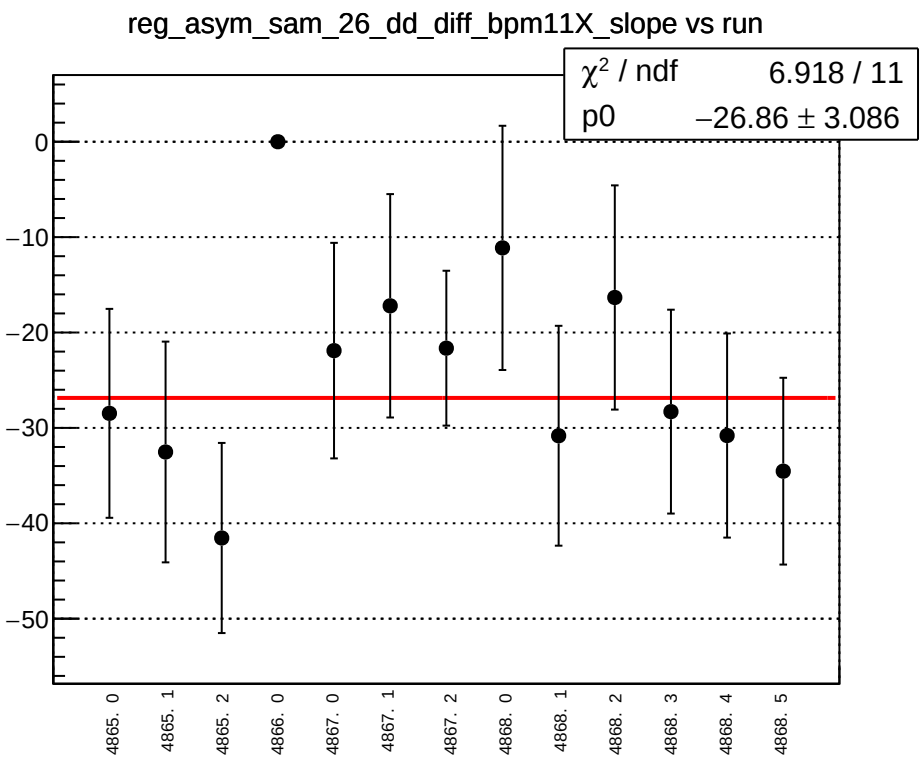
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.0924
Std Dev 1.095
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 6.918 / 11
p0 −26.86 ± 3.086
0
−10
−20
−30
−40
−50
4865. 0
4865. 1
4865. 2
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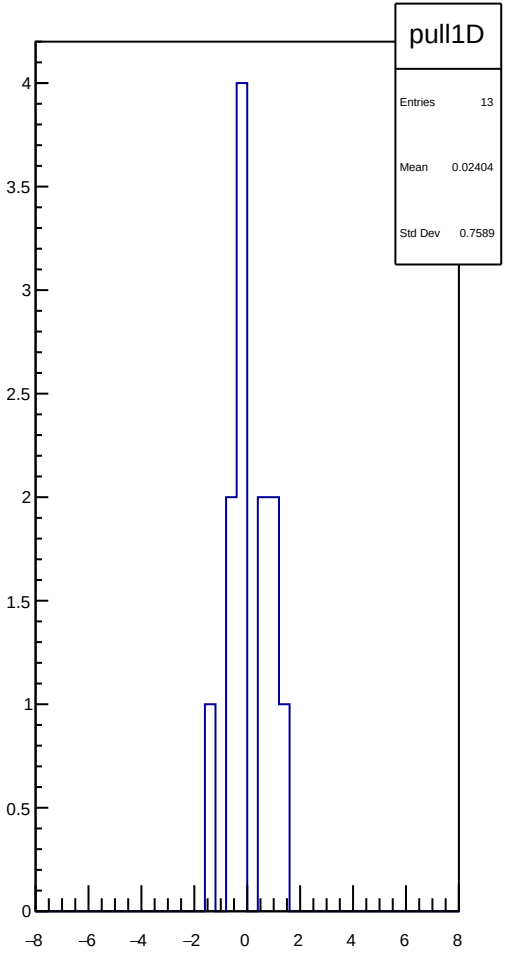
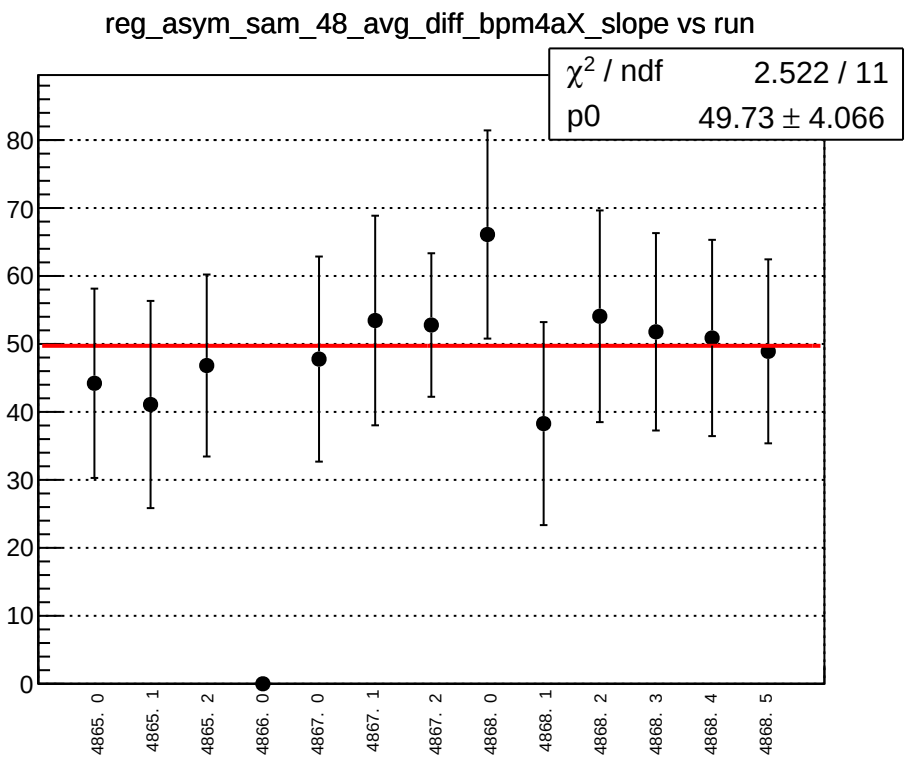
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.02404
Std Dev 0.7589
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 2.522 / 11
p0 49.73 ± 4.066
80
70
60
50
40
30
20
10
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
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4868. 2
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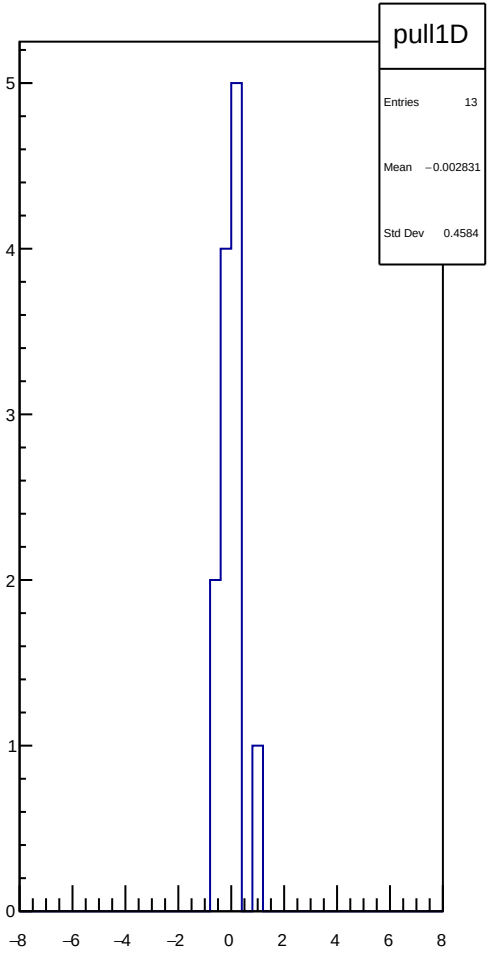
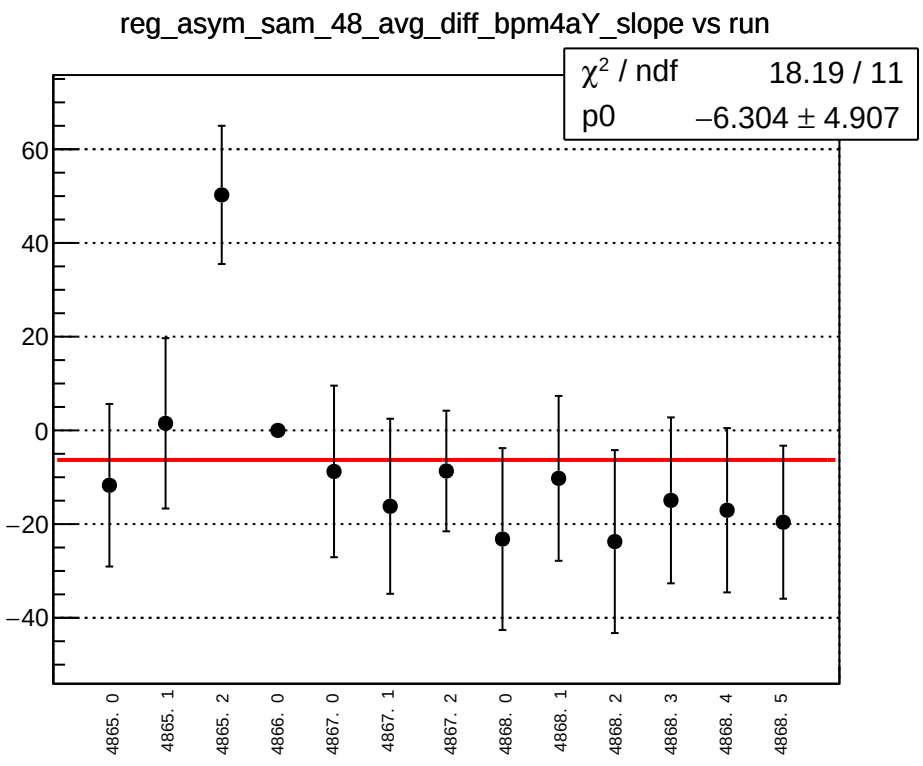
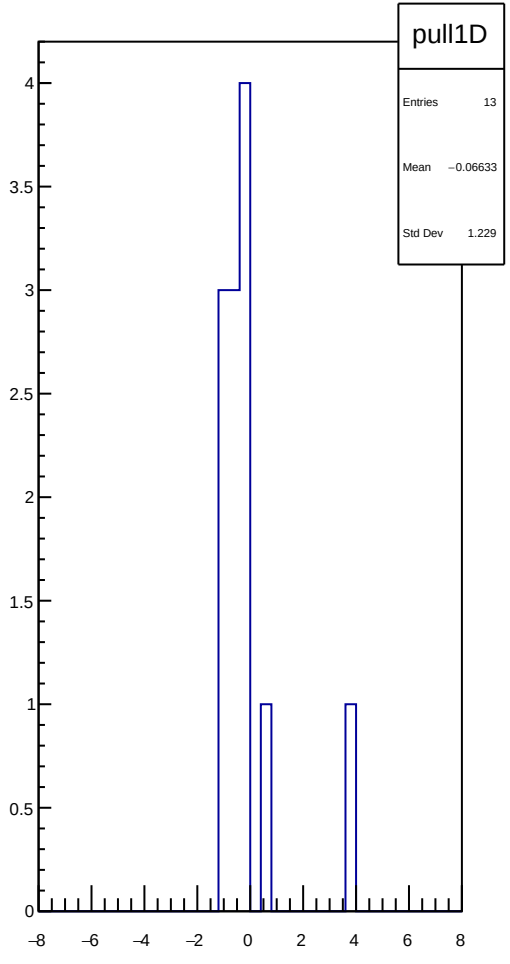
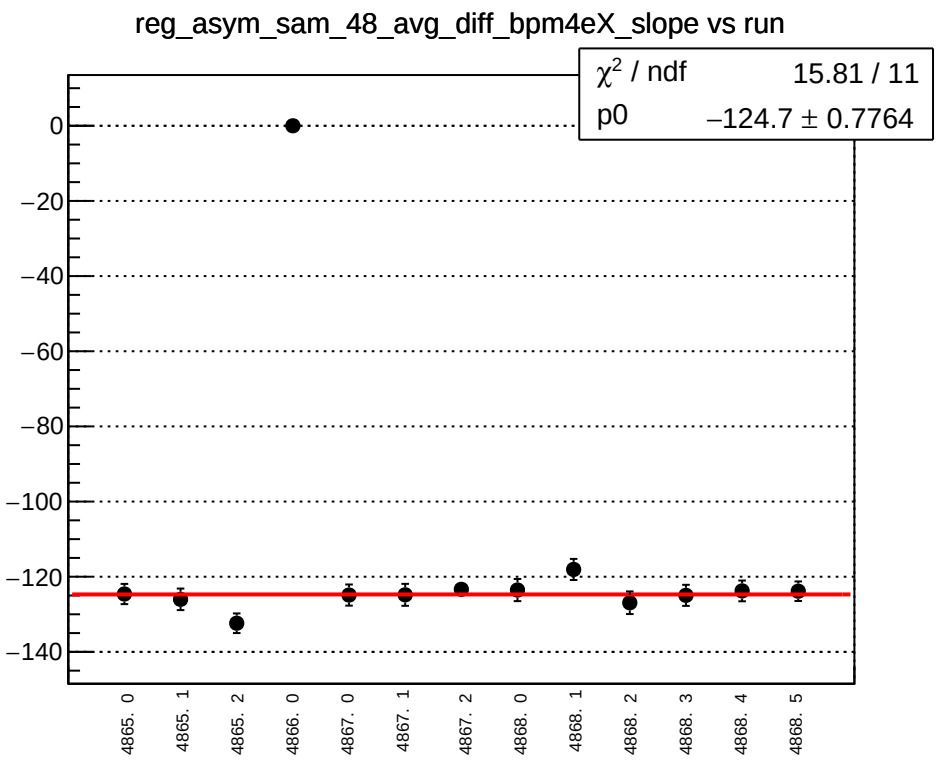
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.002831
Std Dev 0.4584
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.19 / 11
p0 −6.304 ± 4.907
60
40
20
0
−20
−40
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.06633
Std Dev 1.229
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 15.81 / 11
p0 −124.7 ± 0.7764
0
−20
−40
−60
−80
−100
−120
−140
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
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4868. 2
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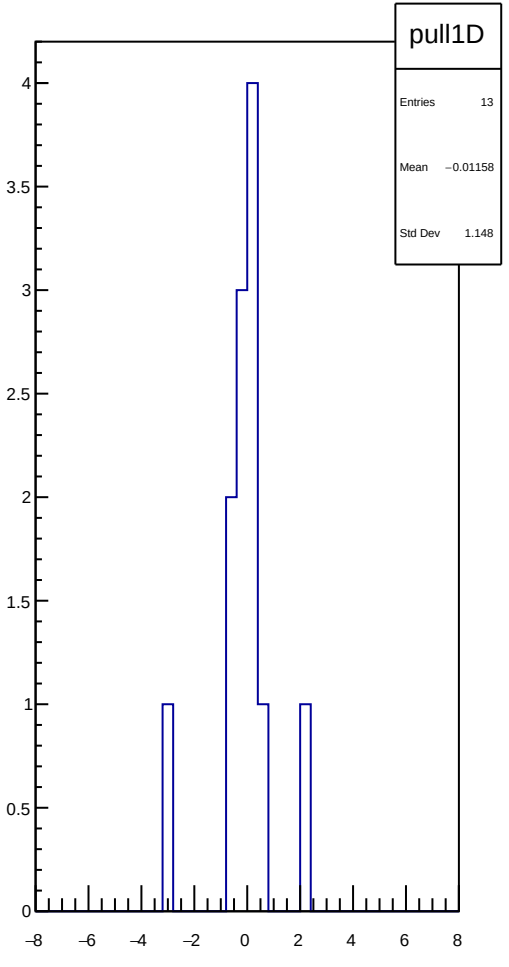
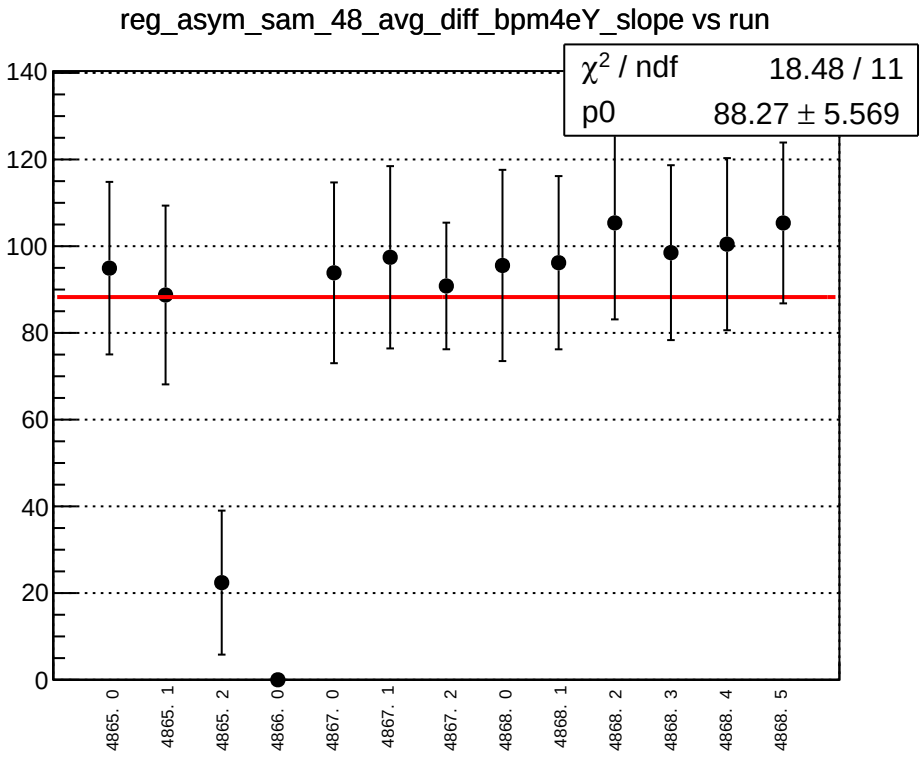
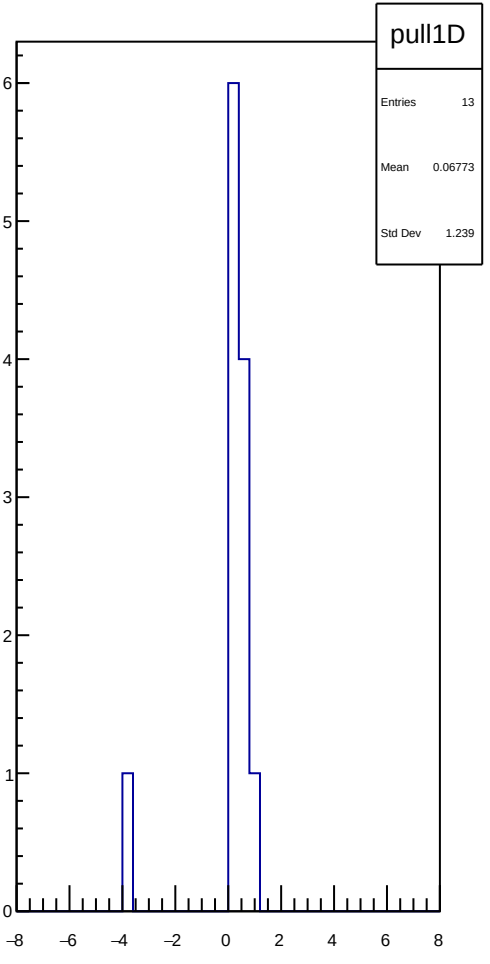
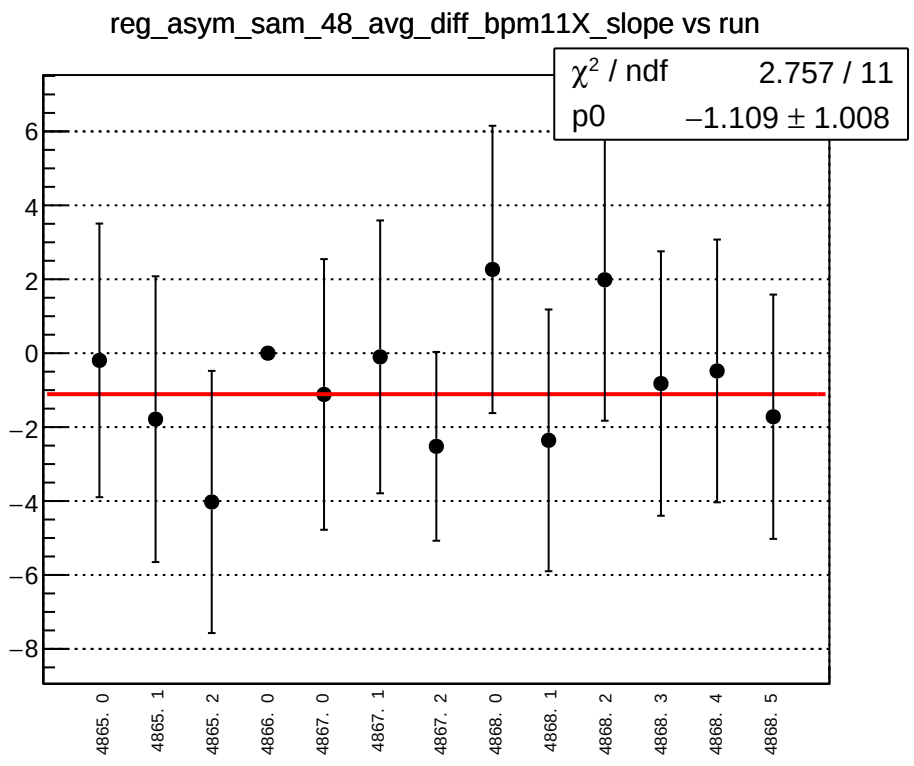
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.01158
Std Dev 1.148
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.48 / 11
p0 88.27 ± 5.569
140
120
100
80
60
40
20
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.06773
Std Dev 1.239
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 2.757 / 11
p0 −1.109 ± 1.008
6
4
2
0
−2
−4
−6
−8
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
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4868. 2
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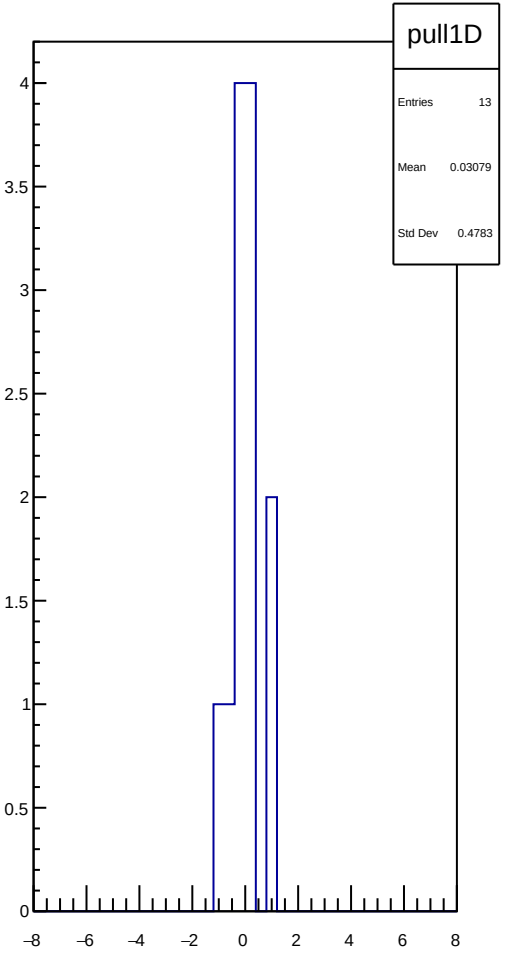
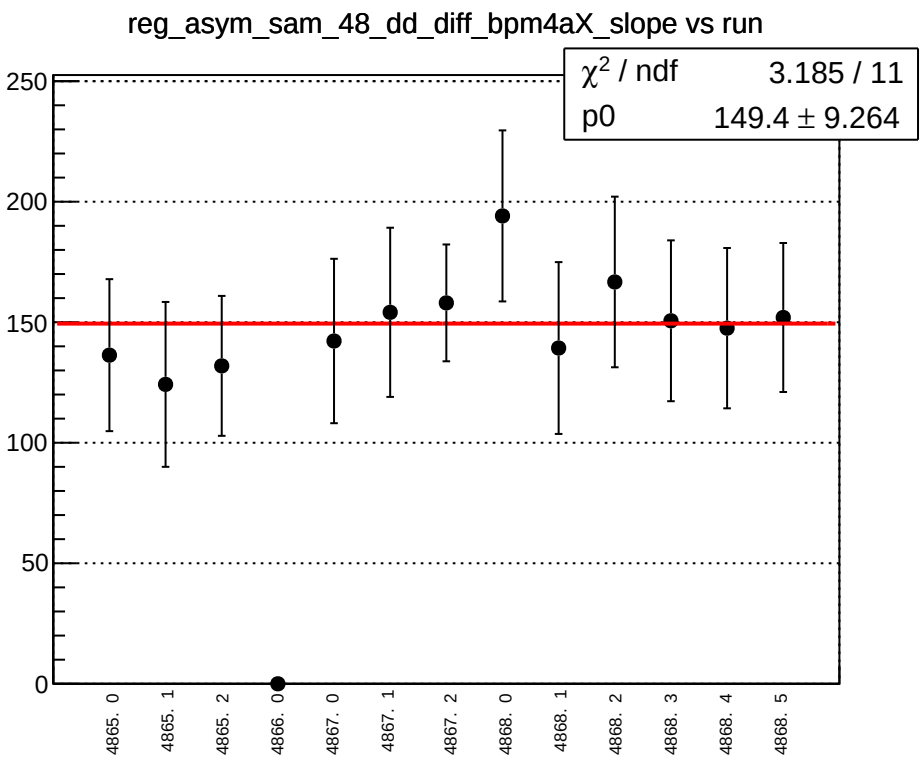
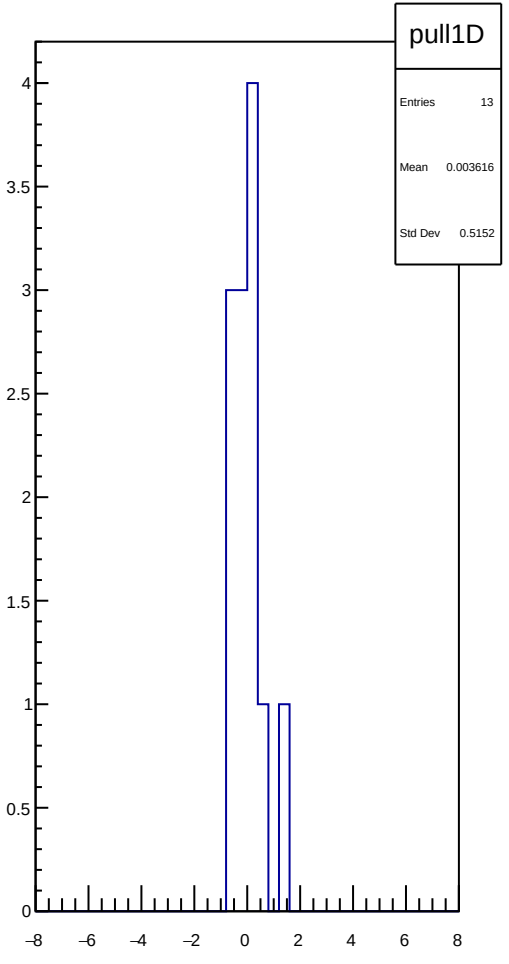
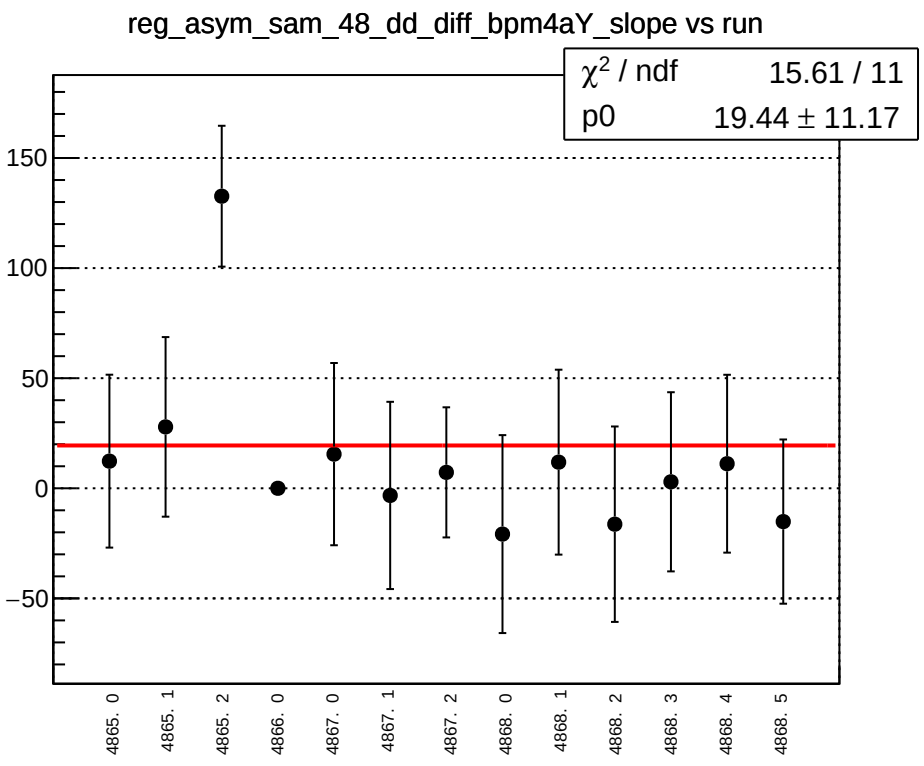
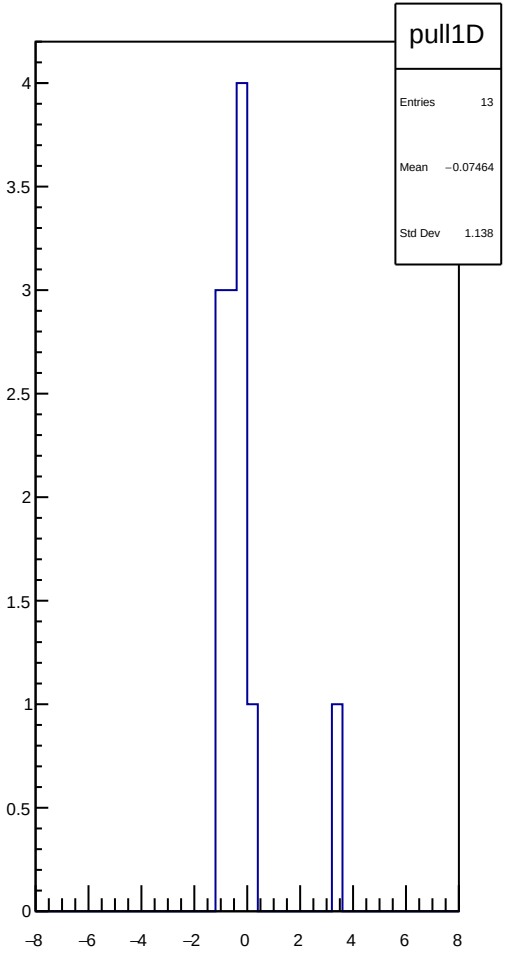
4868. 4
4868. 5

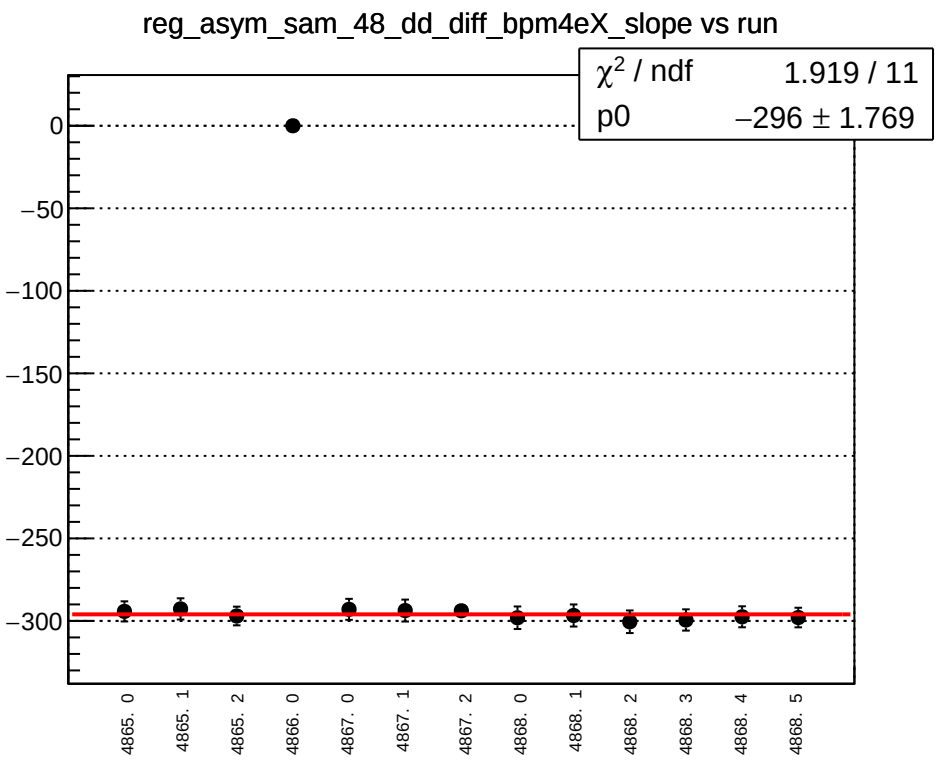

pull1D
Entries 13
Mean 0.03079
Std Dev 0.4783
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

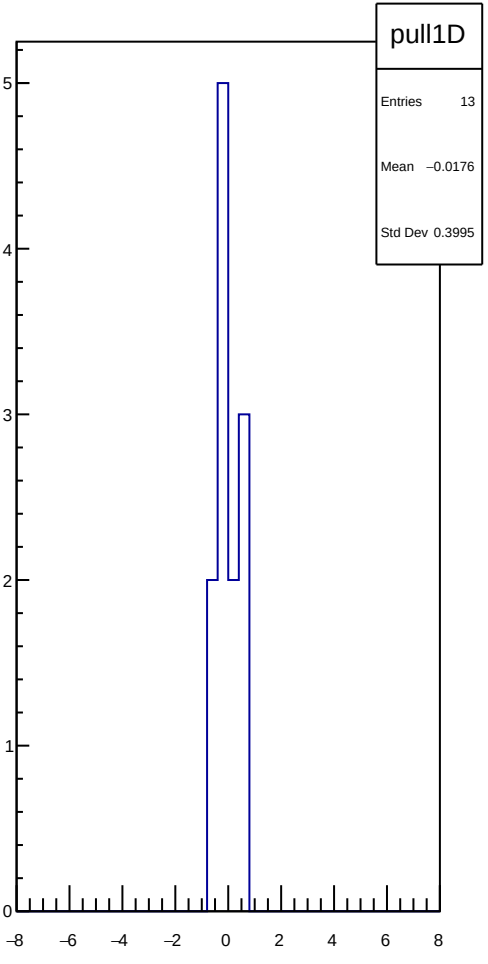

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 3.185 / 11
p0 149.4 ± 9.264
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

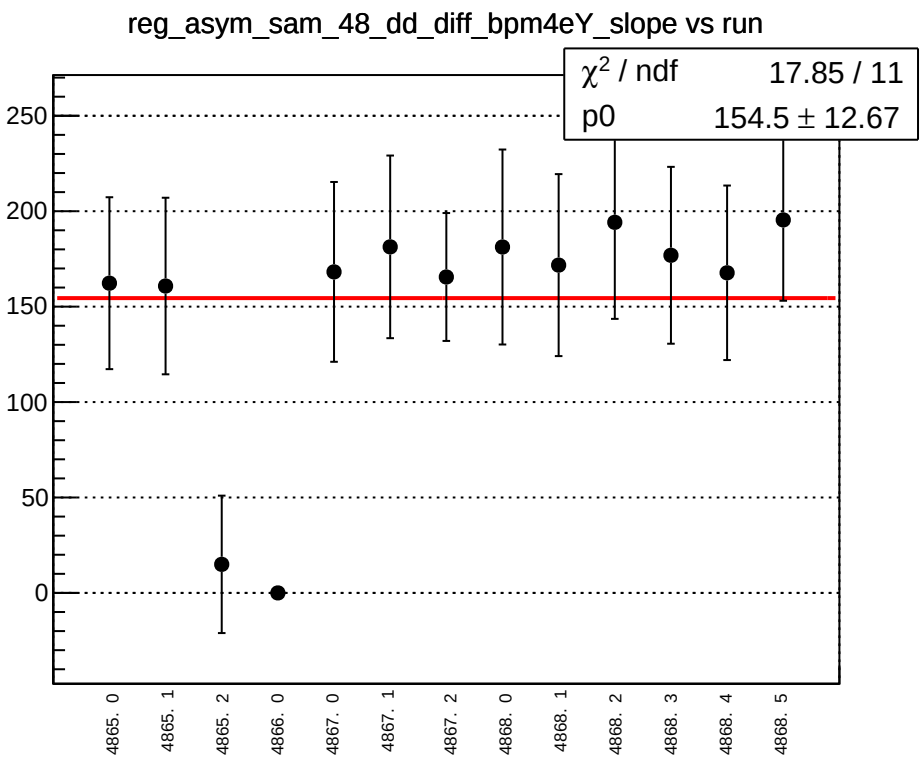

pull1D
Entries 13
Mean 0.003616
Std Dev 0.5152
4
3.5
3
2.5
2
1.5
1
0.5
0
–8
–6
–4
–2
0
2
4
6
8


reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.61 / 11
p0 19.44 ± 11.17
150
100
50
0
−50
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.07464
Std Dev 1.138
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.919 / 11
p0 −296 ± 1.769
0
−50
−100
−150
−200
−250
−300
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.0176
Std Dev 0.3995
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.85 / 11
p0 154.5 ± 12.67
250
200
150
100
50
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
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4868. 2
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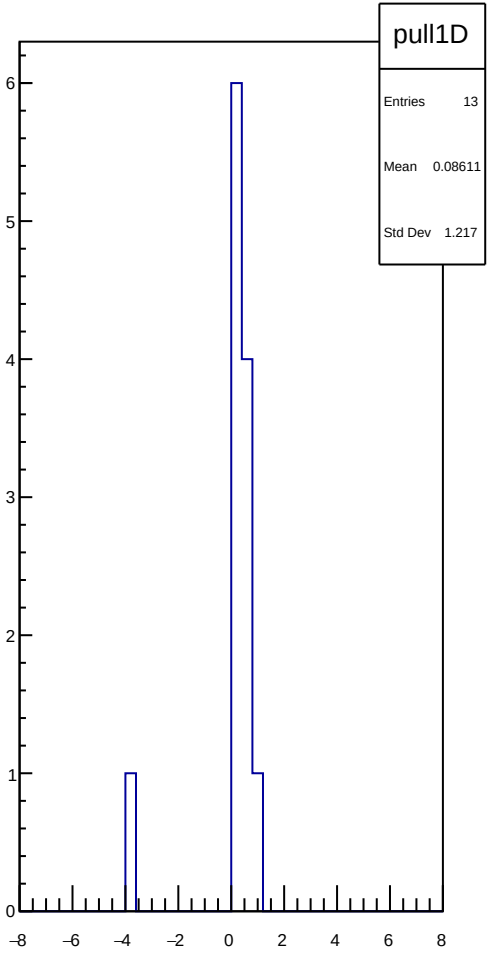
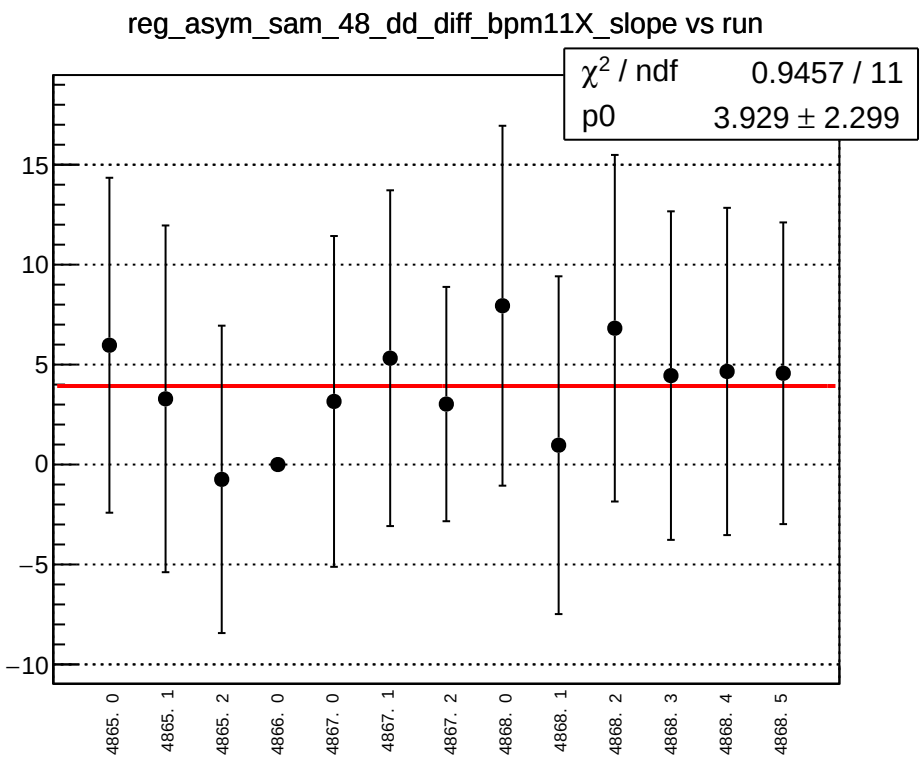
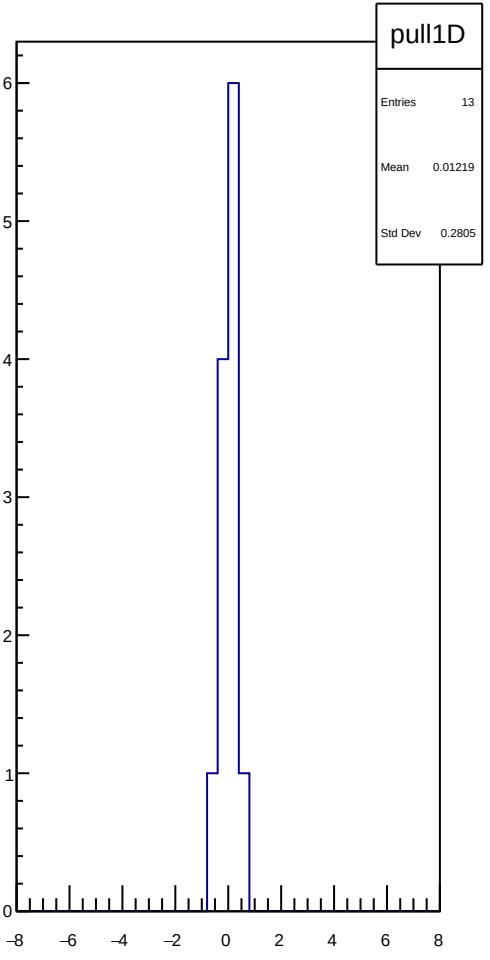
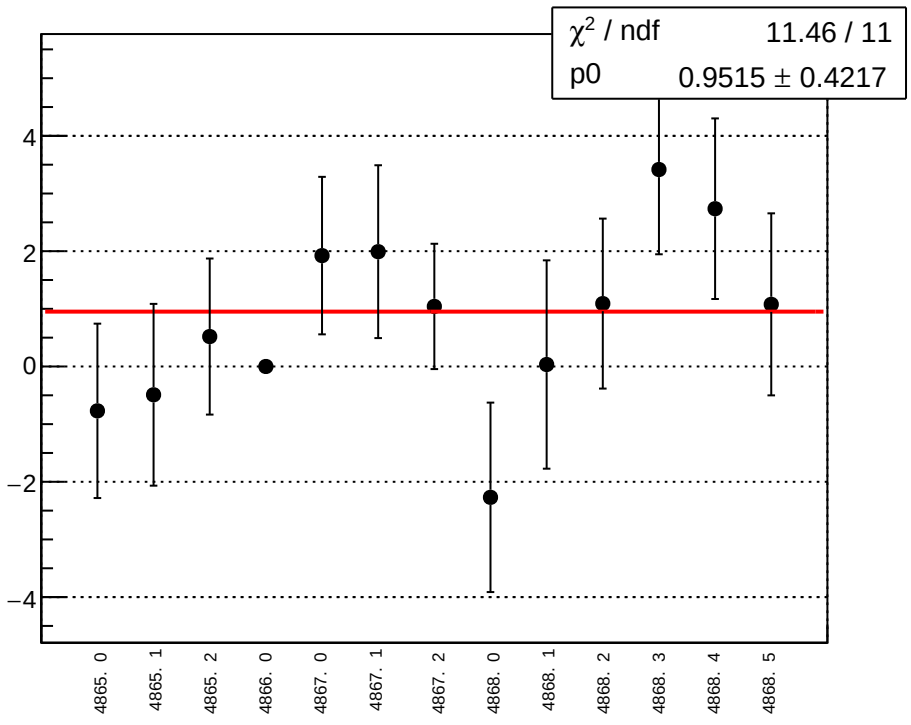
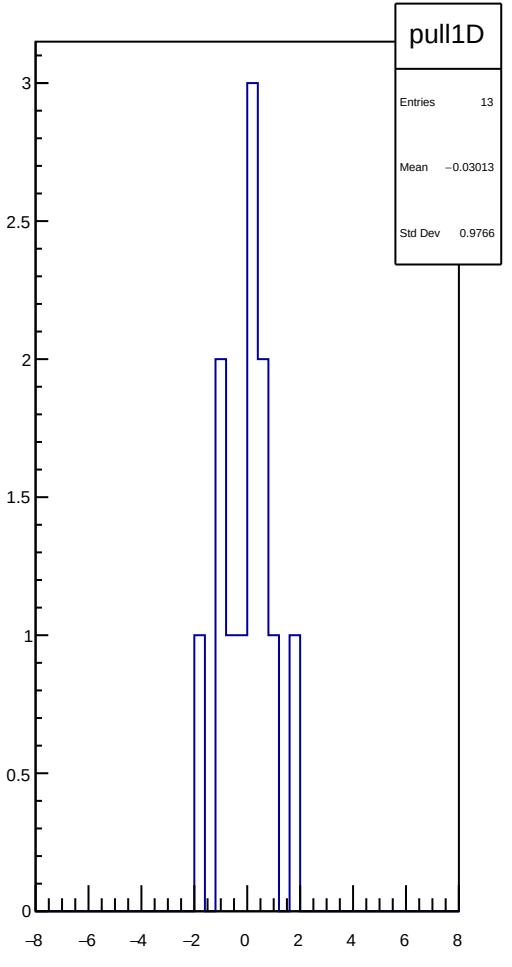
4868. 4
4868. 5

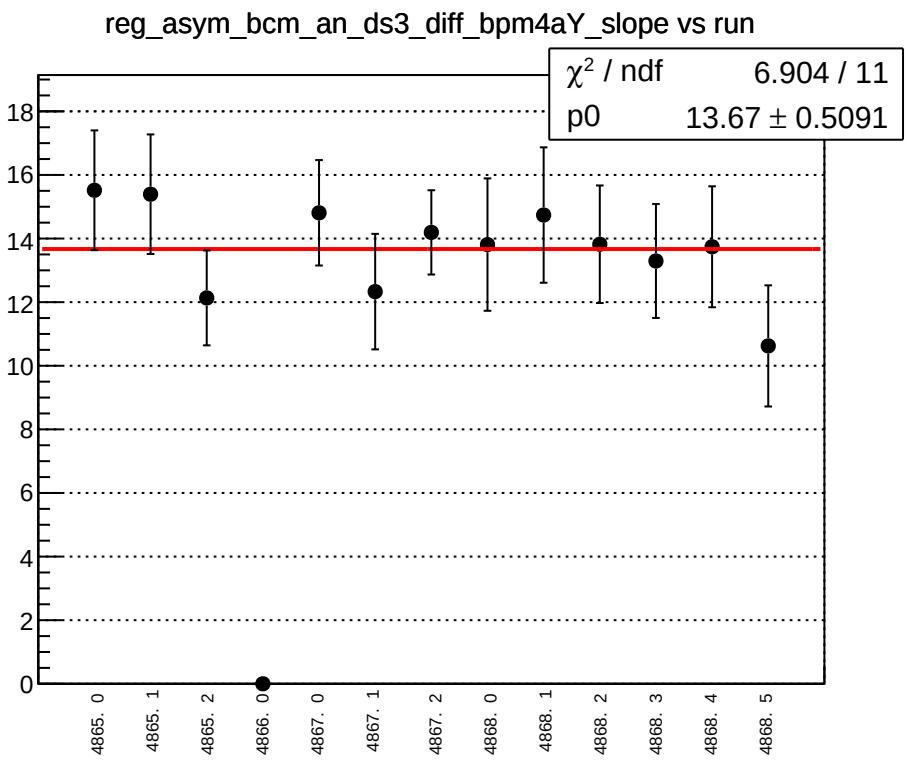

pull1D
Entries 13
Mean 0.08611
Std Dev 1.217
6
5
4
3
2
1
0
–8
–6
–4
–2
0
2
4
6
8

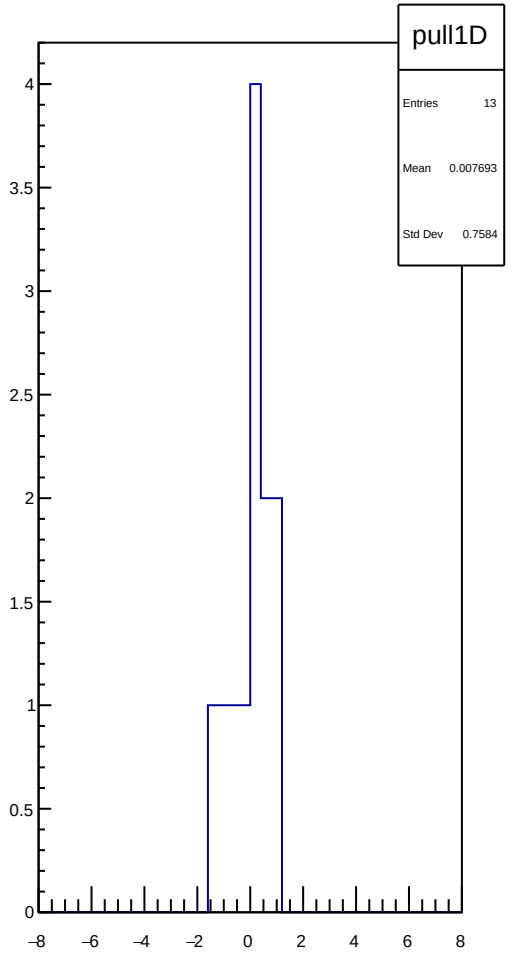

reg_asym_sam_48_dd_diff_bpm11X_slope vs run
χ² / ndf 0.9457 / 11
p0 3.929 ± 2.299
15
10
5
0
−5
−10
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

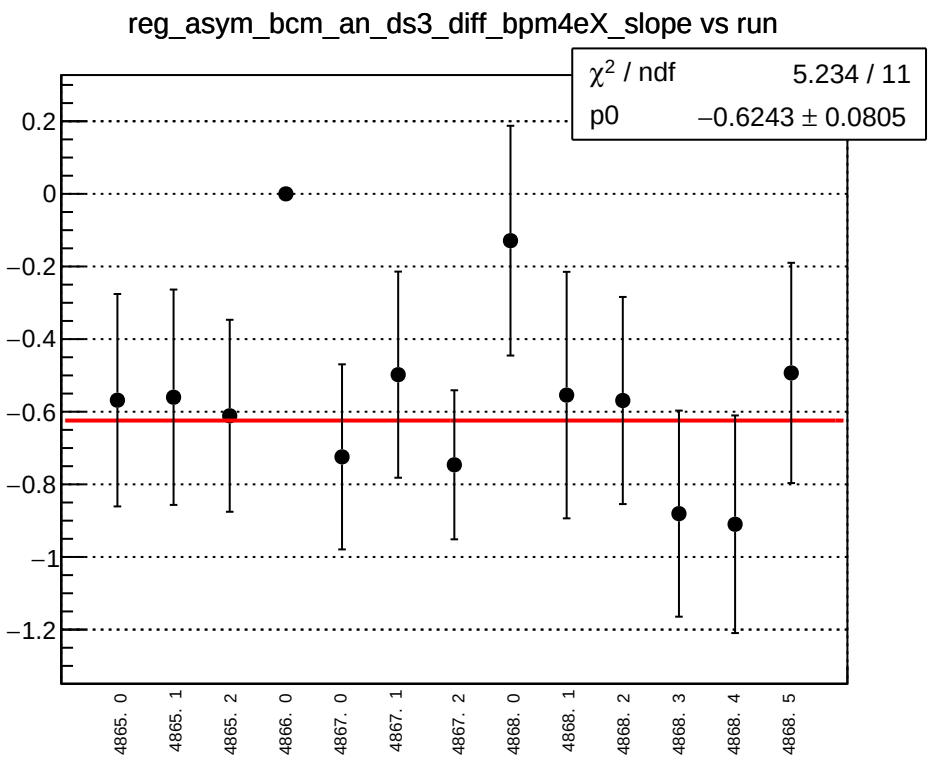

pull1D
Entries 13
Mean 0.01219
Std Dev 0.2805
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

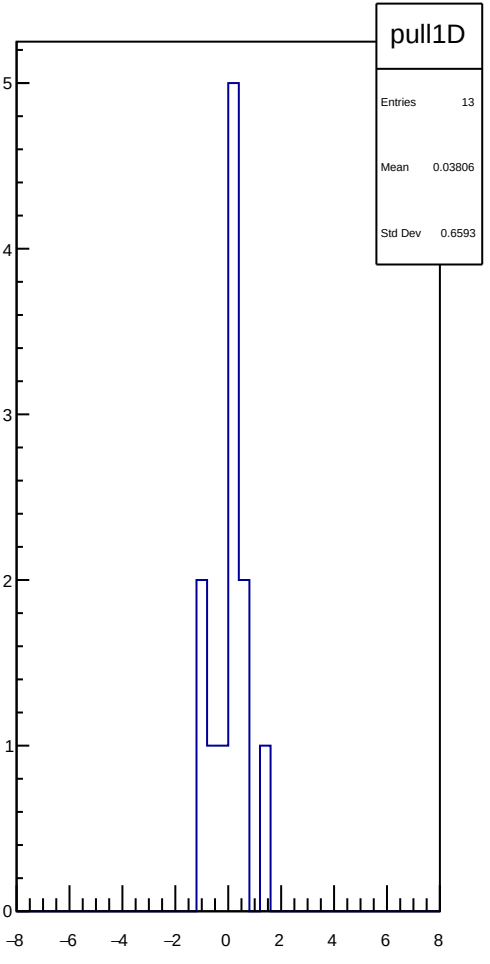

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 11.46 / 11
p0 0.9515 ± 0.4217
4
2
0
−2
−4
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.03013
Std Dev 0.9766
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 6.904 / 11
p0 13.67 ± 0.5091
18
16
14
12
10
8
6
4
2
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.007693
Std Dev 0.7584
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 5.234 / 11
p0 −0.6243 ± 0.0805
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.03806
Std Dev 0.6593
5
4
3
2
1
0
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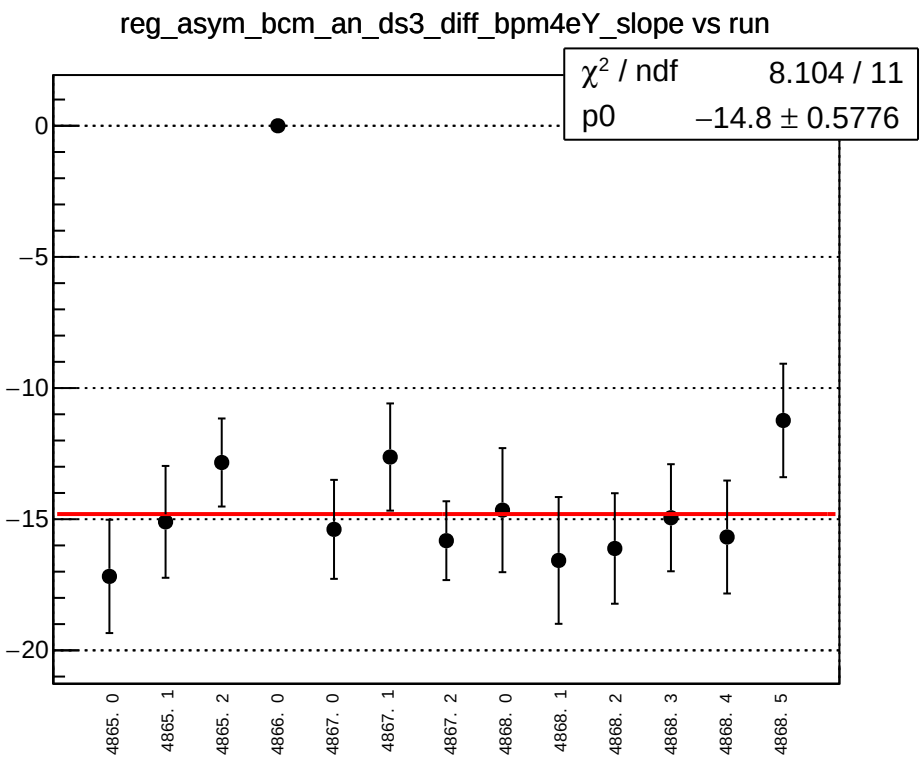
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 8.104 / 11
p0 −14.8 ± 0.5776
0
−5
−10
−15
−20
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
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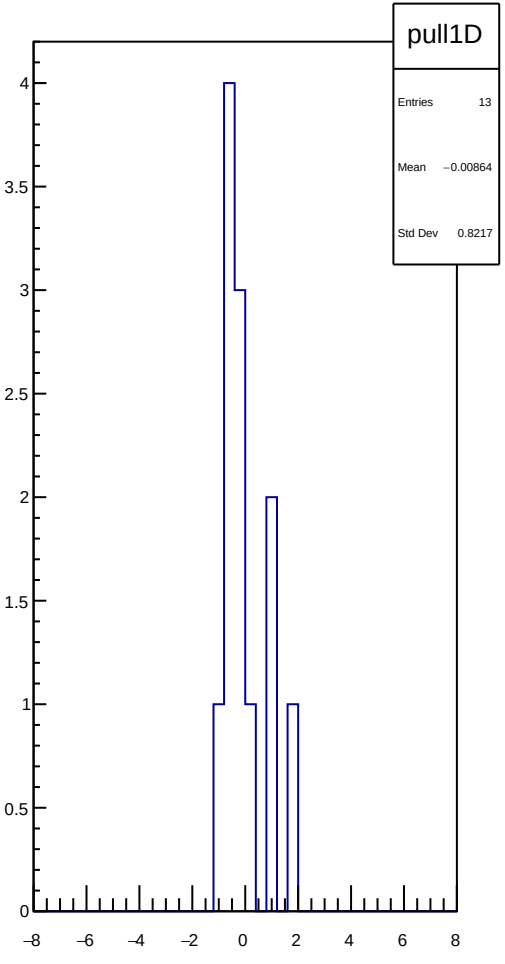
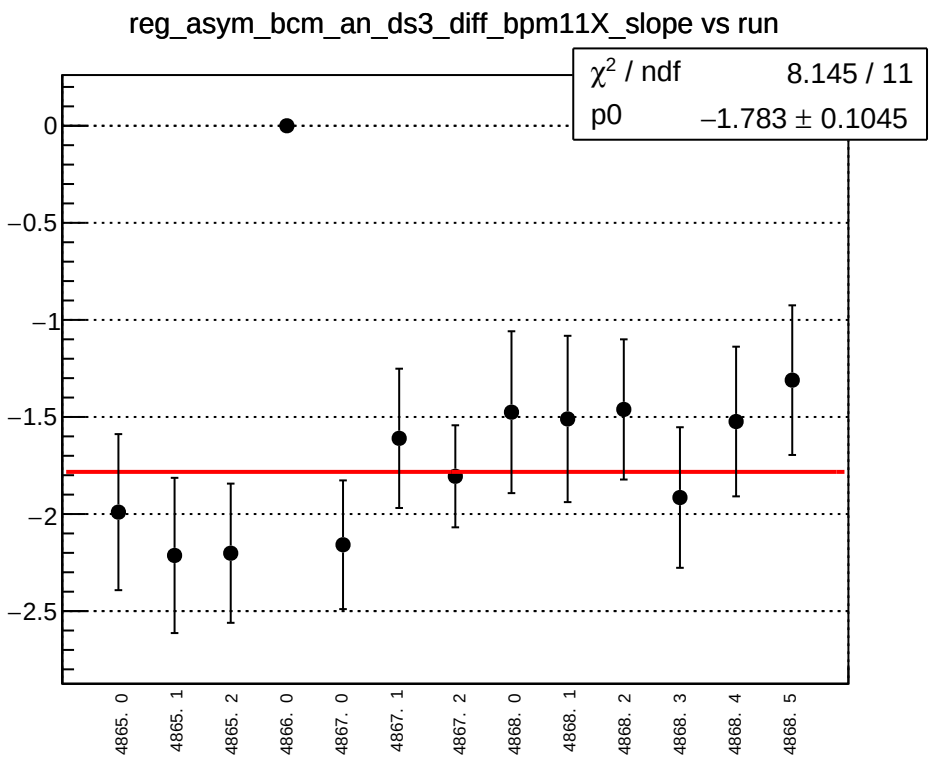
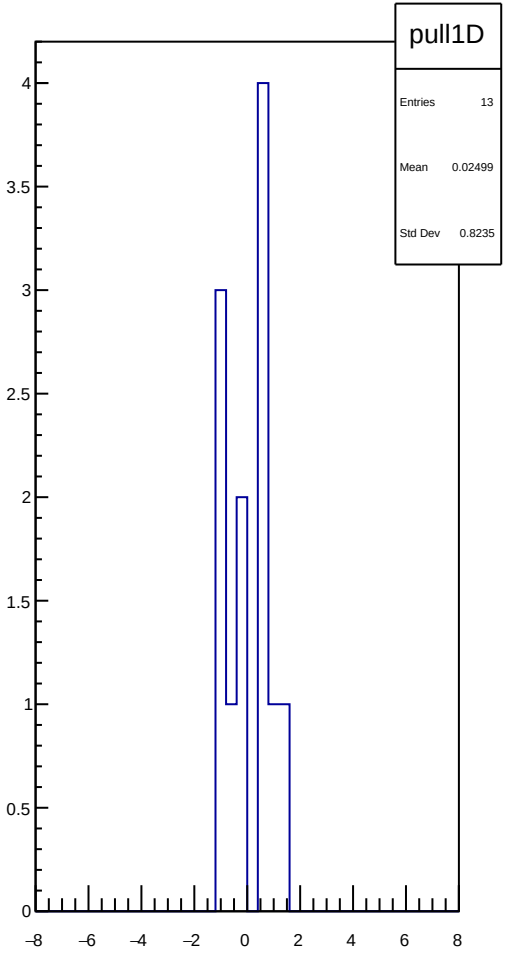
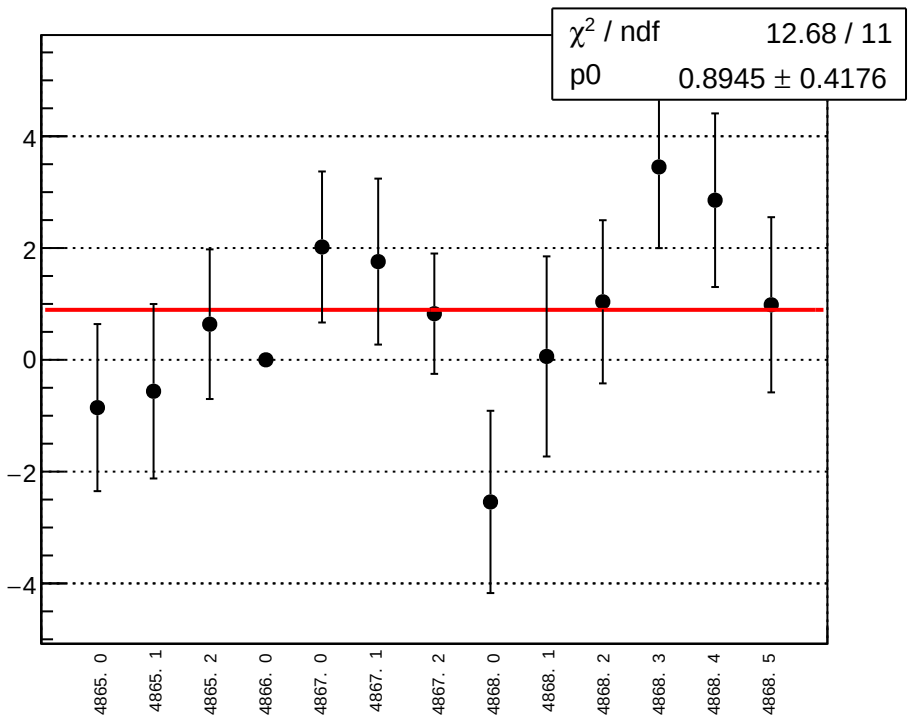
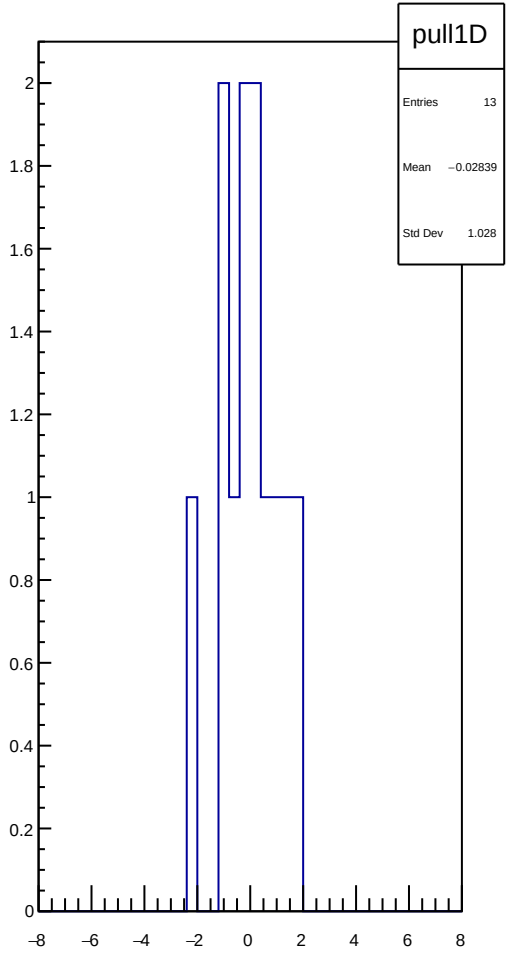
4868. 4
4868. 5

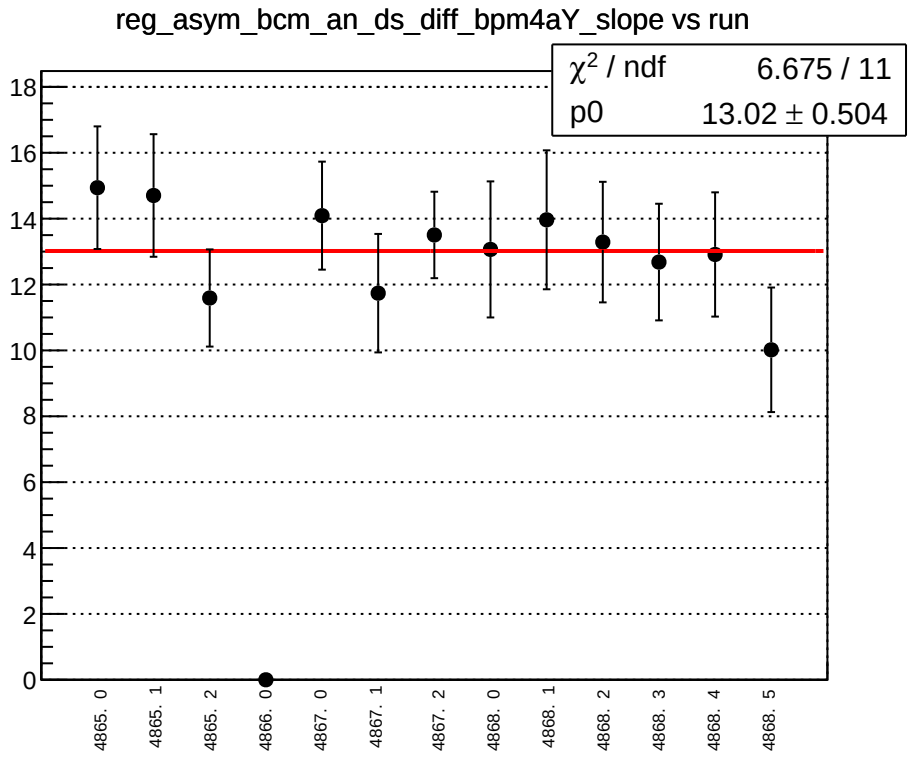

pull1D
Entries 13
Mean −0.00864
Std Dev 0.8217
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_an_ds3_diff_bpm11X_slope vs run
χ² / ndf 8.145 / 11
p0 −1.783 ± 0.1045
0
−0.5
−1
−1.5
−2
−2.5
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.02499
Std Dev 0.8235
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 12.68 / 11
p0 0.8945 ± 0.4176
4
2
0
−2
−4
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.02839
Std Dev 1.028
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 6.675 / 11
p0 13.02 ± 0.504
18
16
14
12
10
8
6
4
2
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
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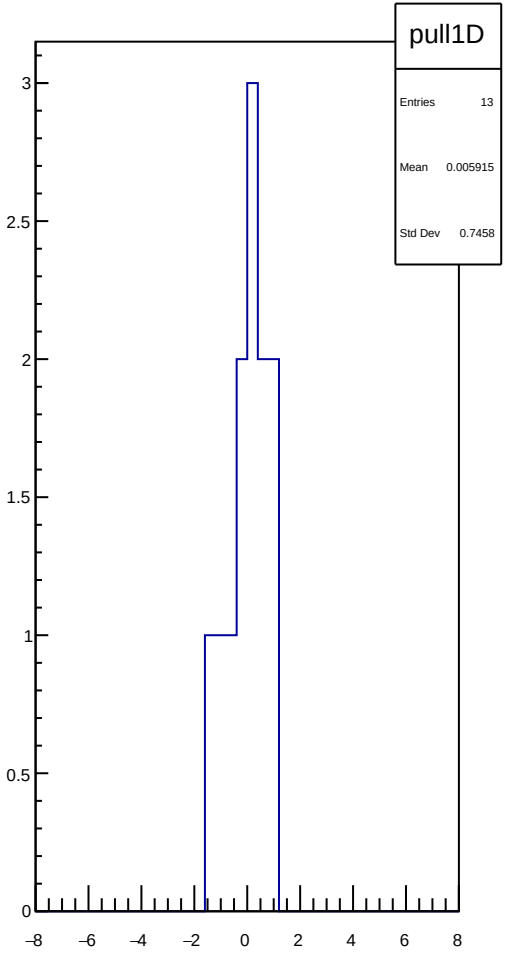
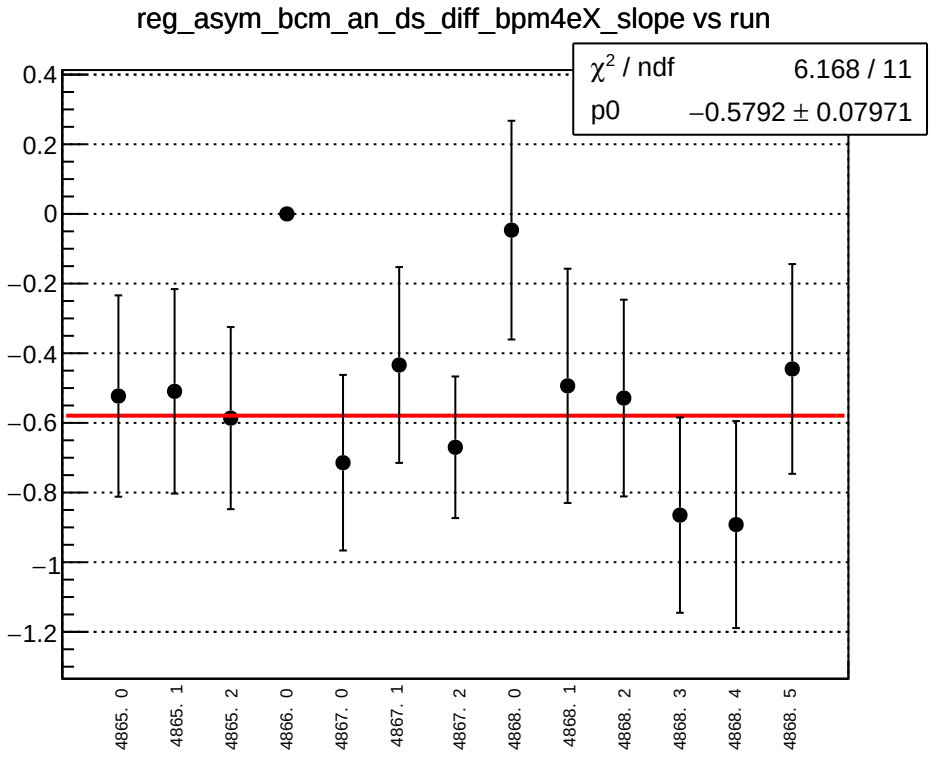
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.005915
Std Dev 0.7458
3
2.5
2
1.5
1
0.5
0
–8
–6
–4
–2
0
2
4
6
8


reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 6.168 / 11
p0 −0.5792 ± 0.07971
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
4865. 0
4865. 1
4865. 2
4866. 0
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4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
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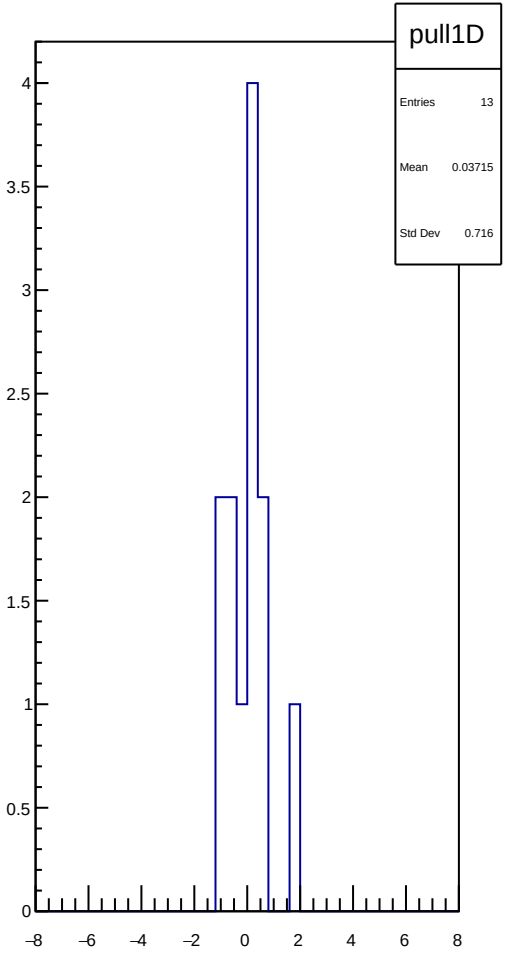
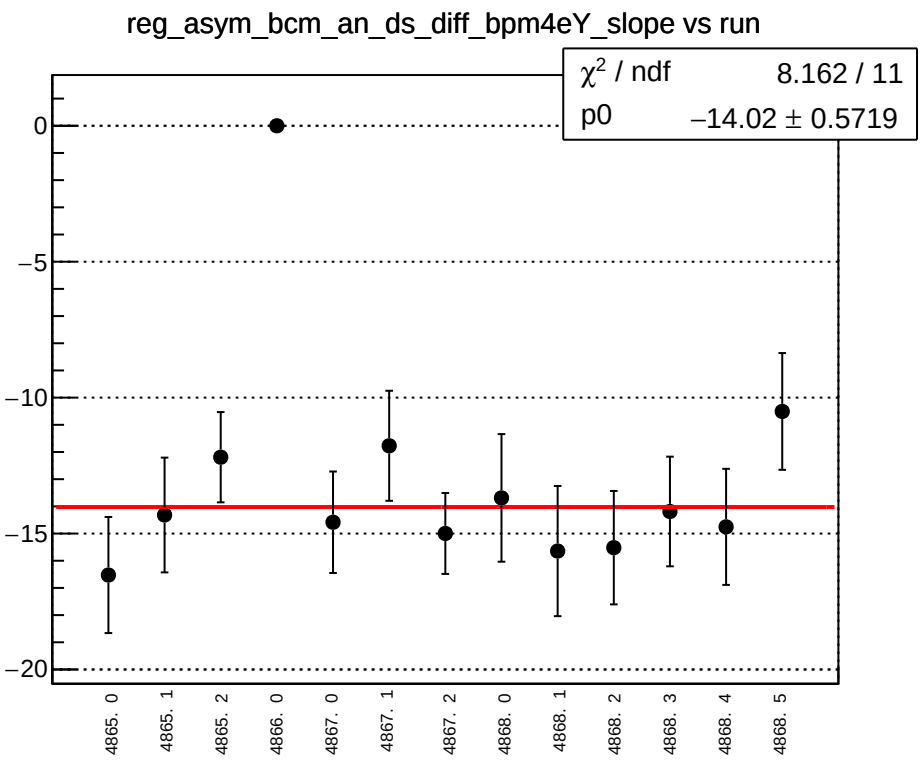
4868. 5


pull1D
Entries 13
Mean 0.03715
Std Dev 0.716
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 8.162 / 11
p0 −14.02 ± 0.5719
0
−5
−10
−15
−20
4865. 0
4865. 1
4865. 2
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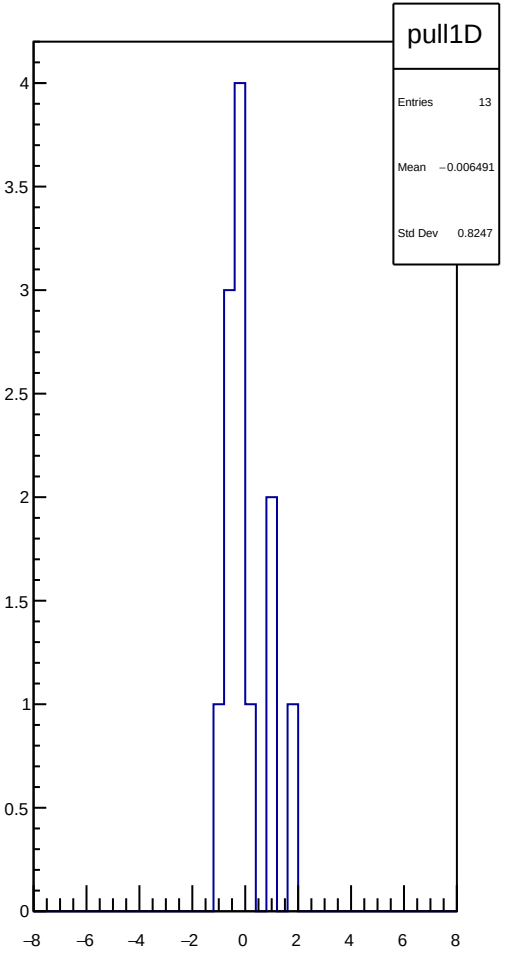
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.006491
Std Dev 0.8247
4
3.5
3
2.5
2
1.5
1
0.5
0
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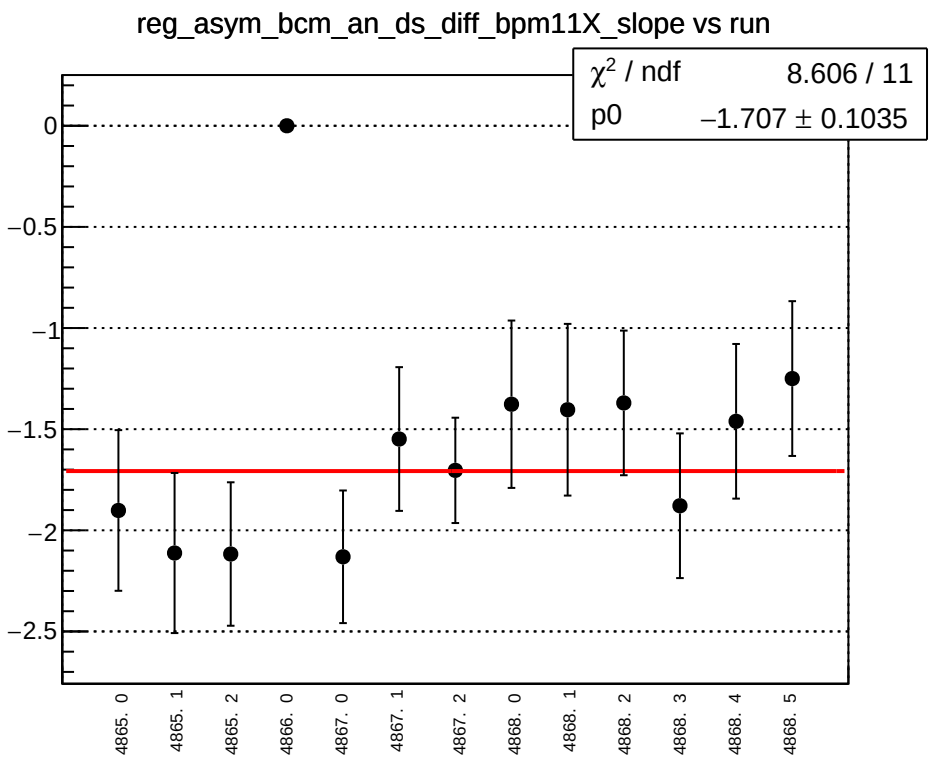
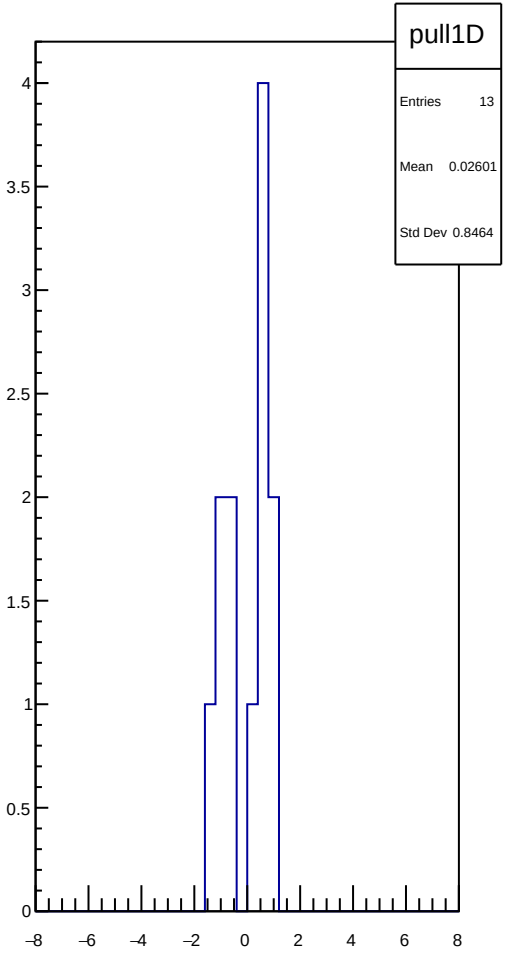
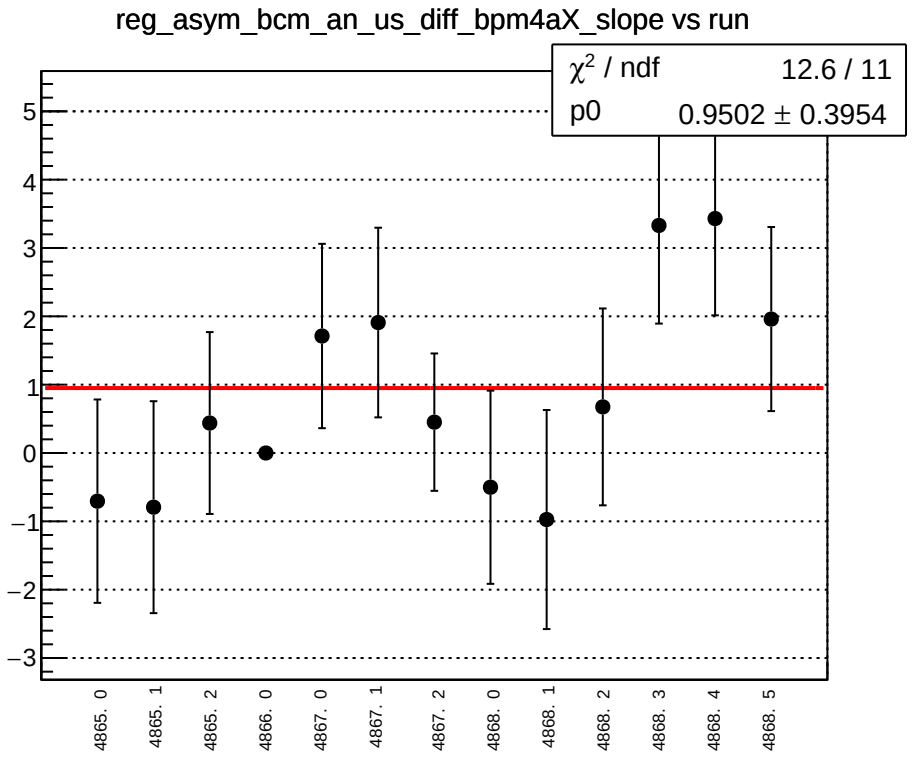
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_an_ds_diff_bpm11X_slope vs run
χ² / ndf 8.606 / 11
p0 −1.707 ± 0.1035
0
−0.5
−1
−1.5
−2
−2.5
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.02601
Std Dev 0.8464
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 12.6 / 11
p0 0.9502 ± 0.3954
5
4
3
2
1
0
−1
−2
−3
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
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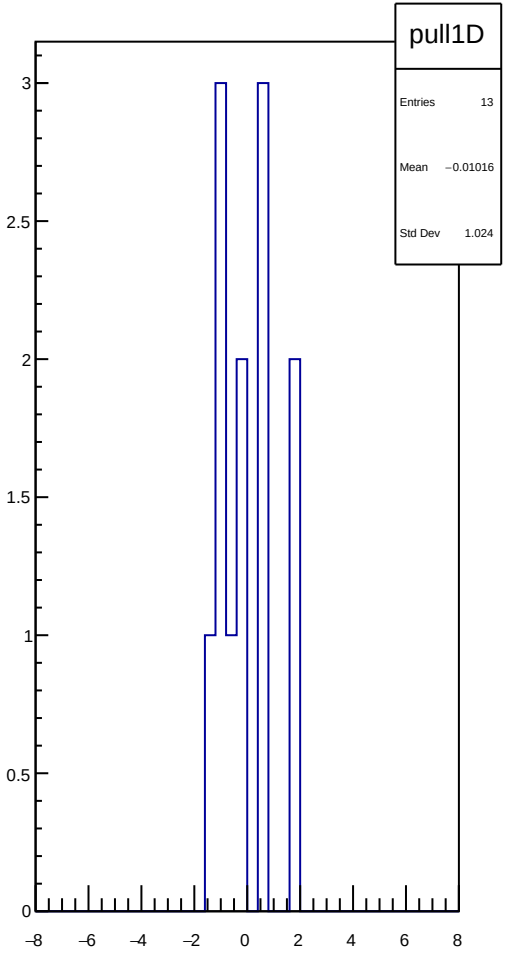
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.01016
Std Dev 1.024
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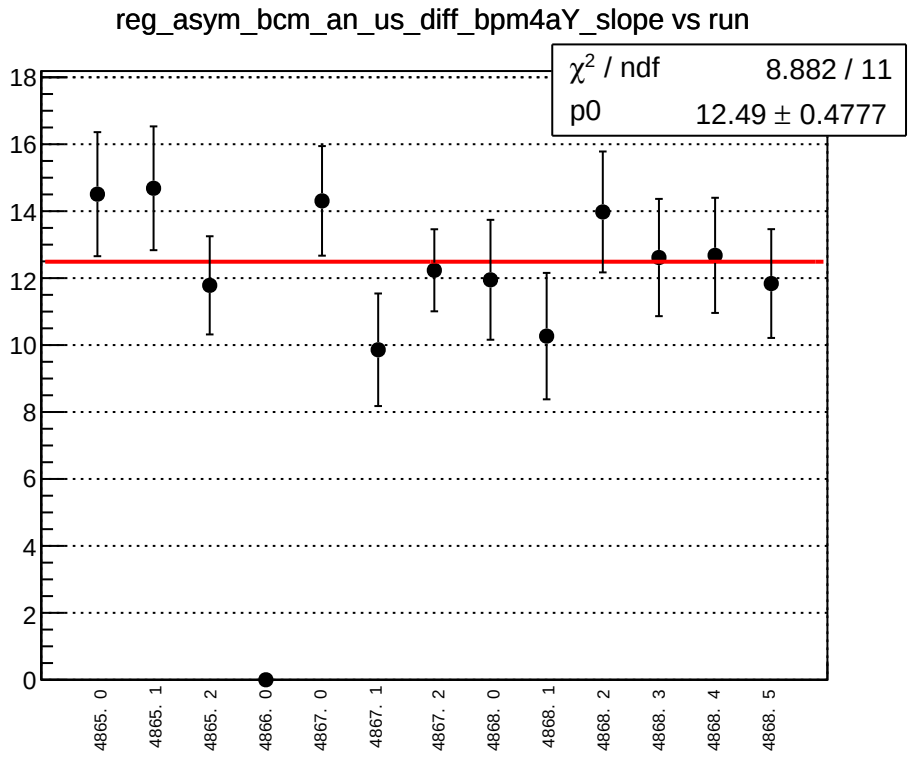
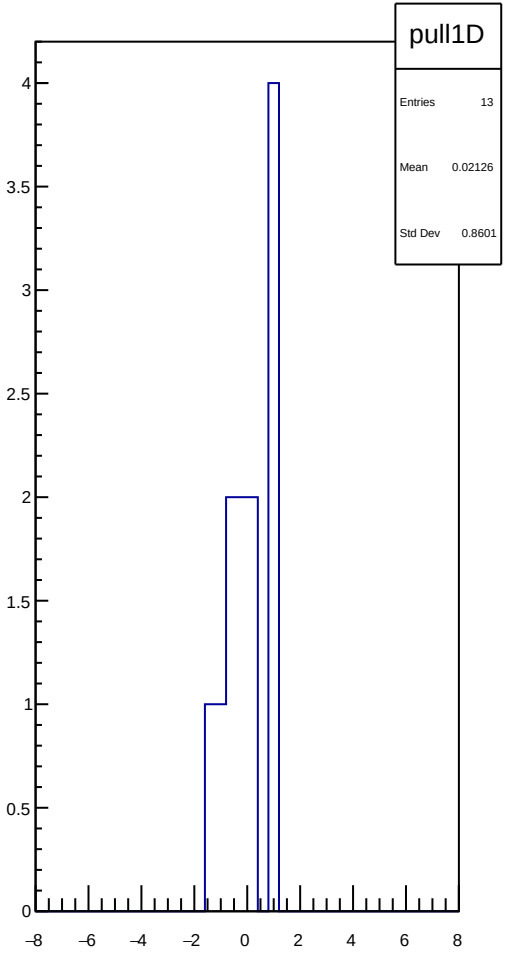
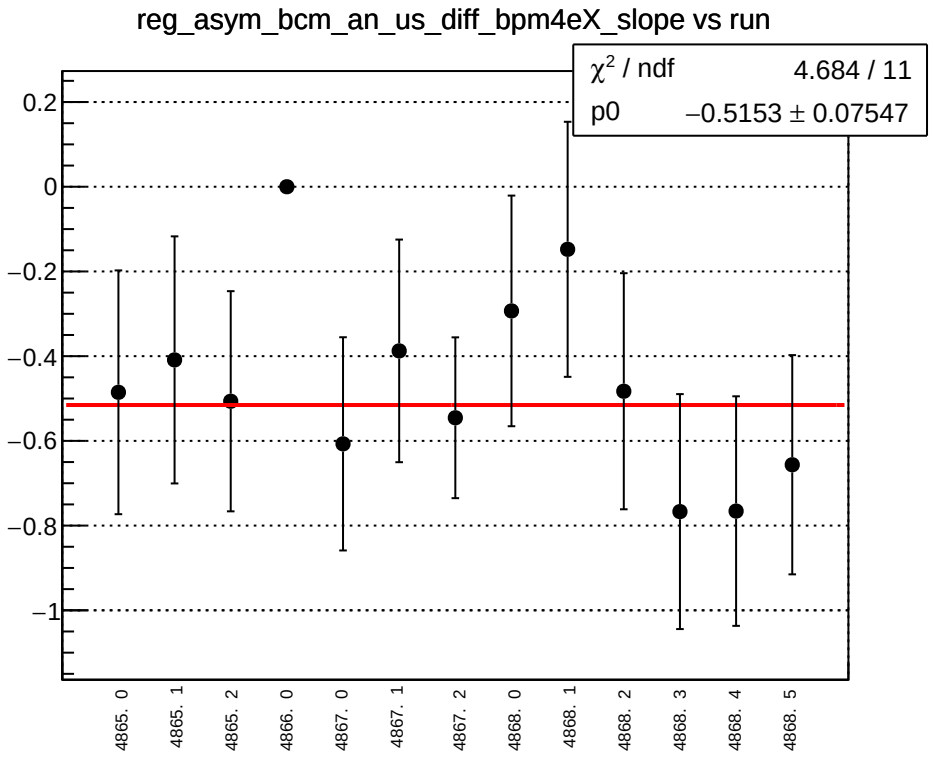
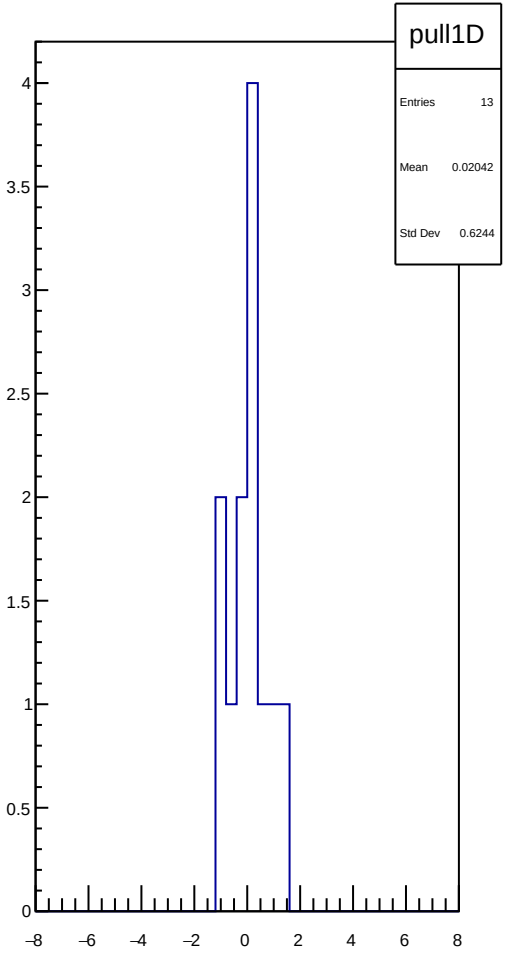
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 8.882 / 11
p0 12.49 ± 0.4777
18
16
14
12
10
8
6
4
2
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.02126
Std Dev 0.8601
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 4.684 / 11
p0 −0.5153 ± 0.07547
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.02042
Std Dev 0.6244
4
3.5
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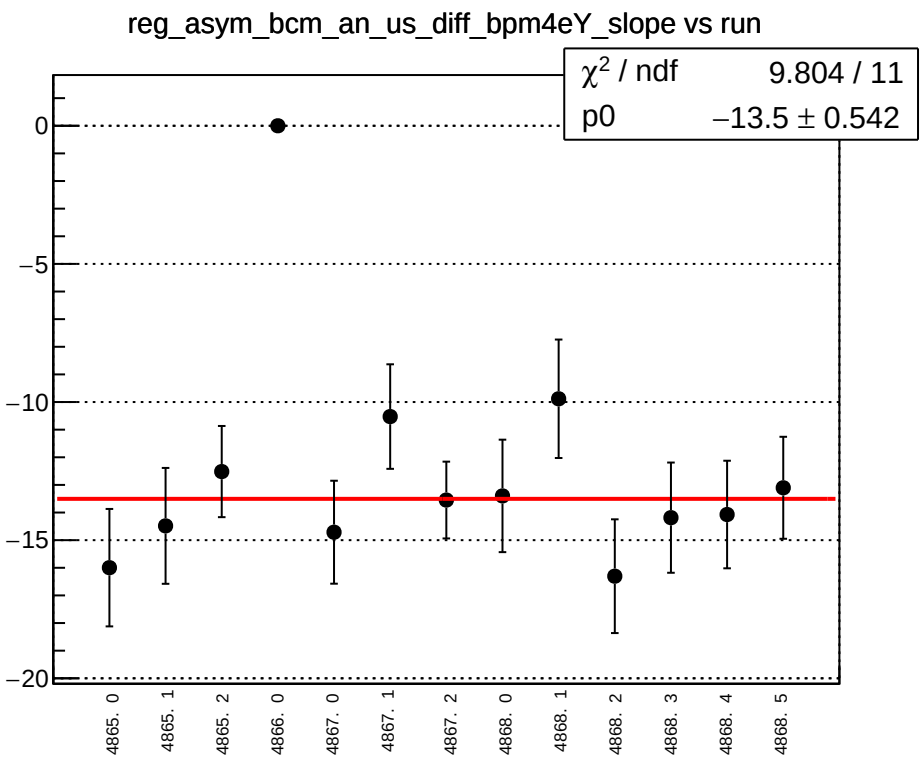
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 9.804 / 11
p0 −13.5 ± 0.542
0
−5
−10
−15
−20
4865. 0
4865. 1
4865. 2
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4867. 1
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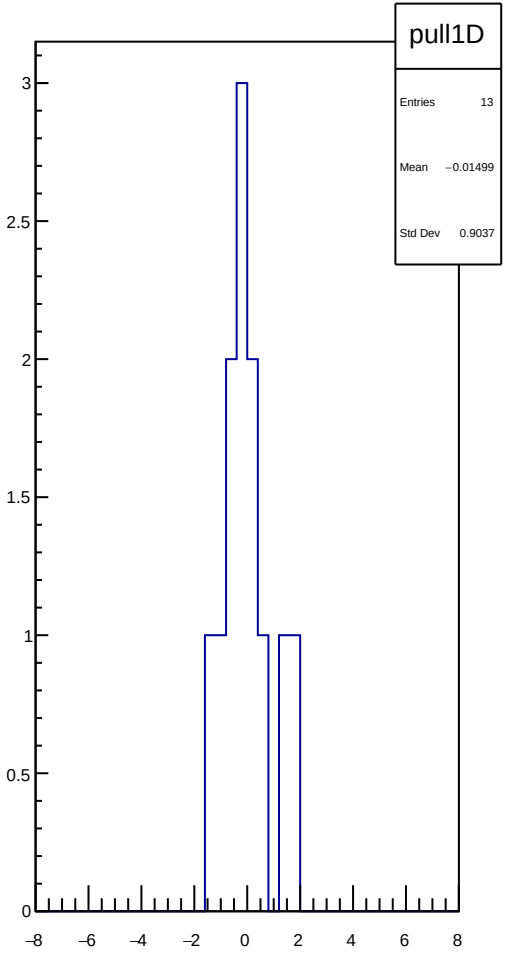
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.01499
Std Dev 0.9037
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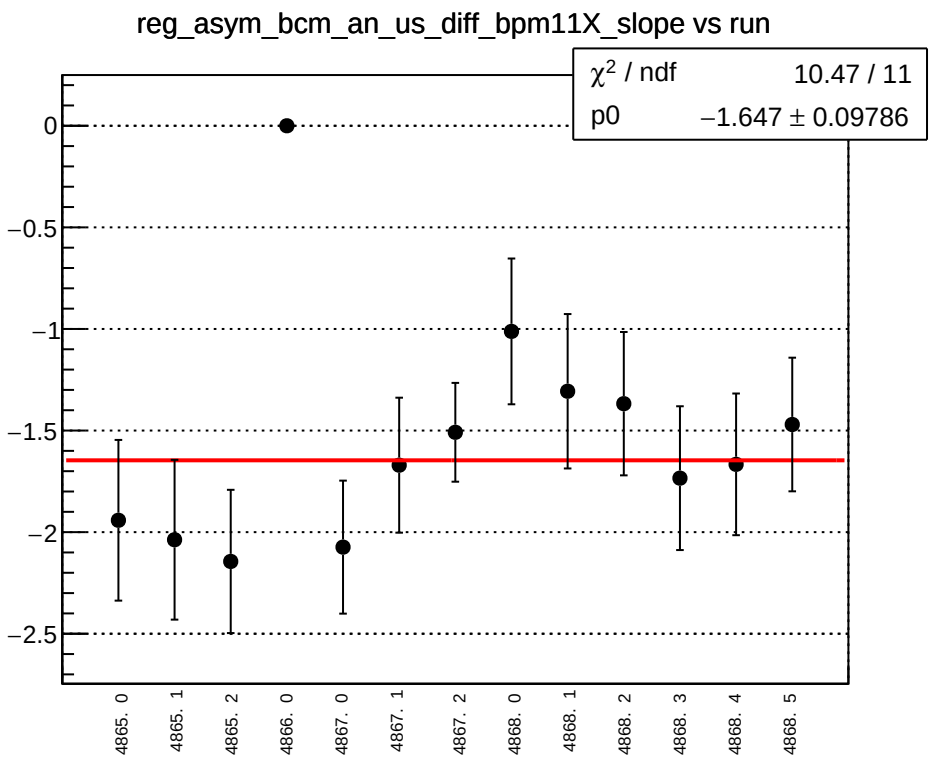
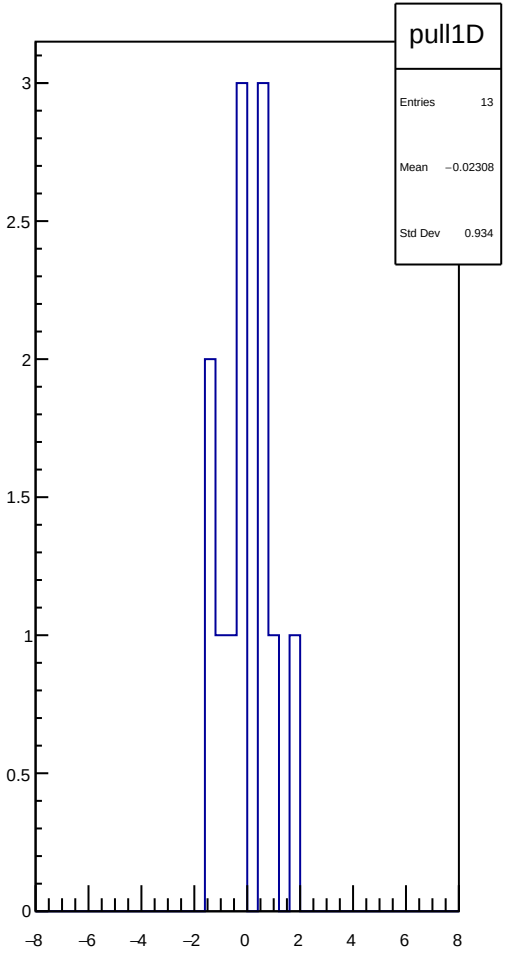
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_an_us_diff_bpm11X_slope vs run
χ² / ndf 10.47 / 11
p0 −1.647 ± 0.09786
0
−0.5
−1
−1.5
−2
−2.5
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.02308
Std Dev 0.934
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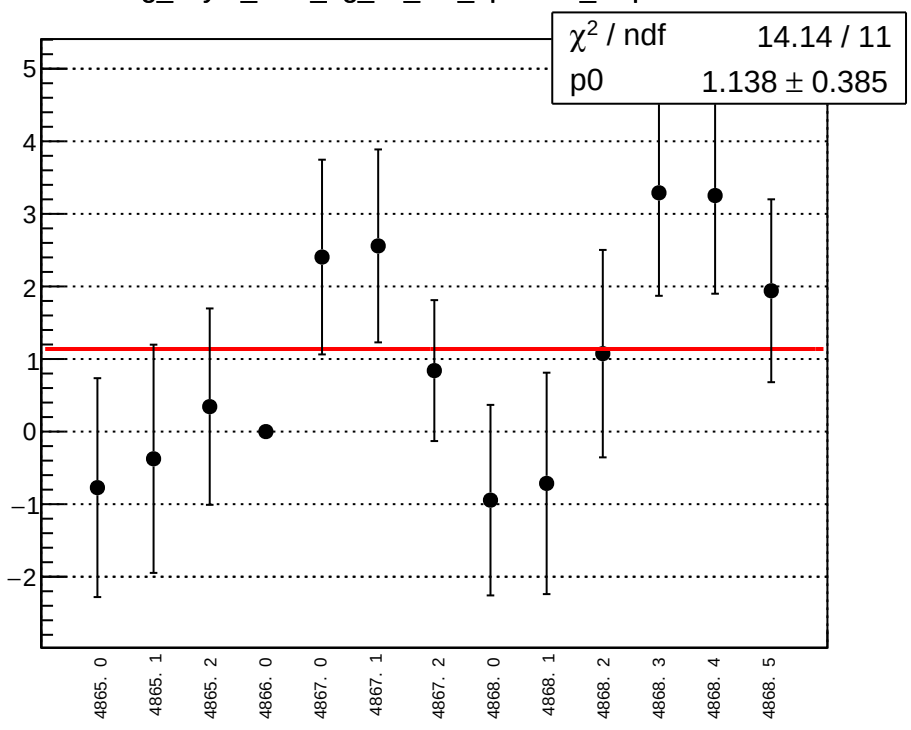
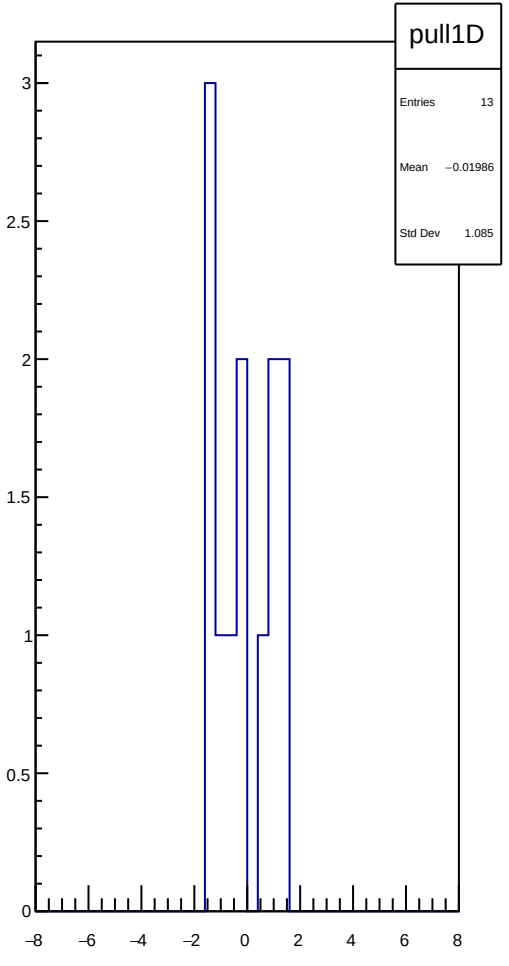
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 14.14 / 11
p0 1.138 ± 0.385
5
4
3
2
1
0
−1
−2
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.01986
Std Dev 1.085
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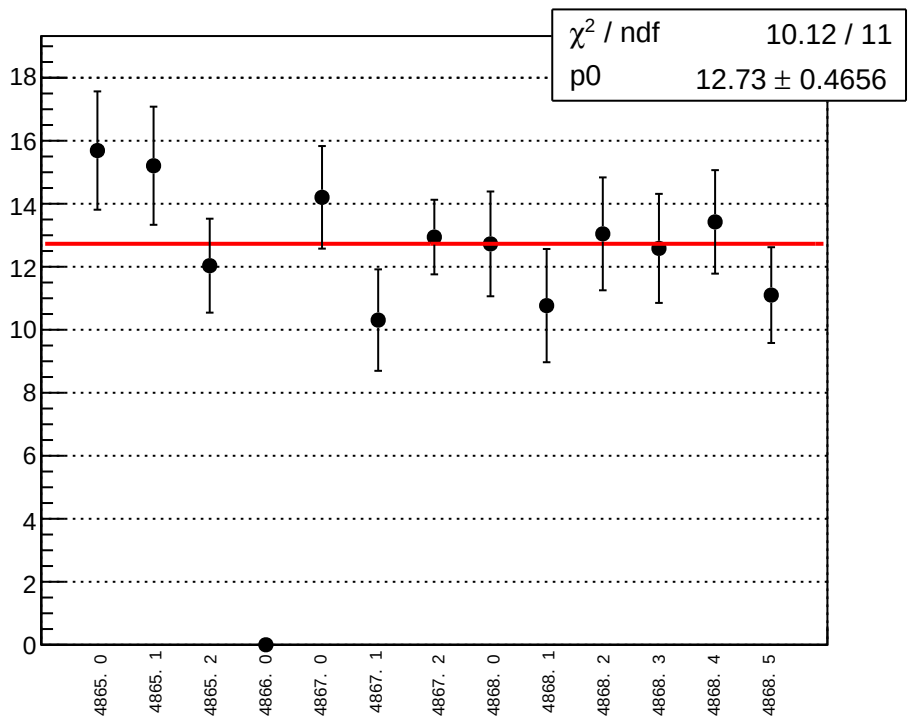
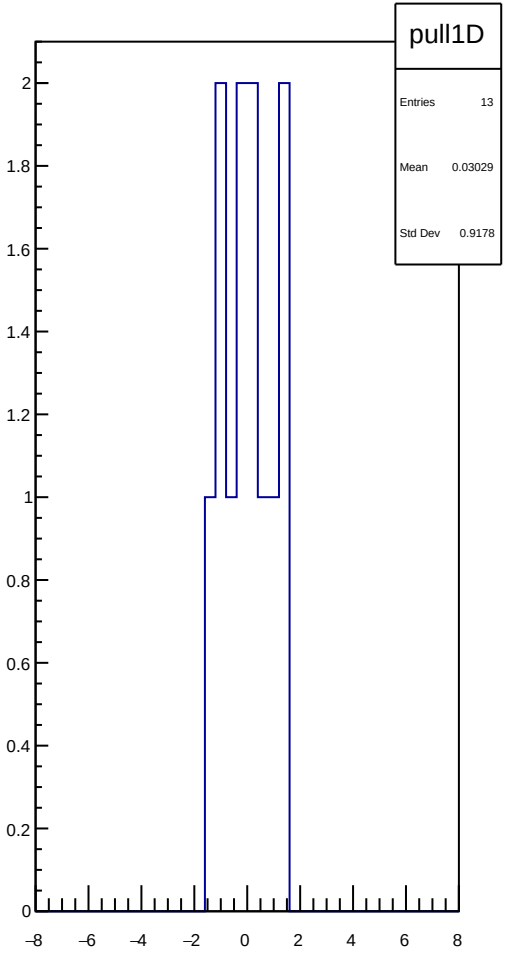
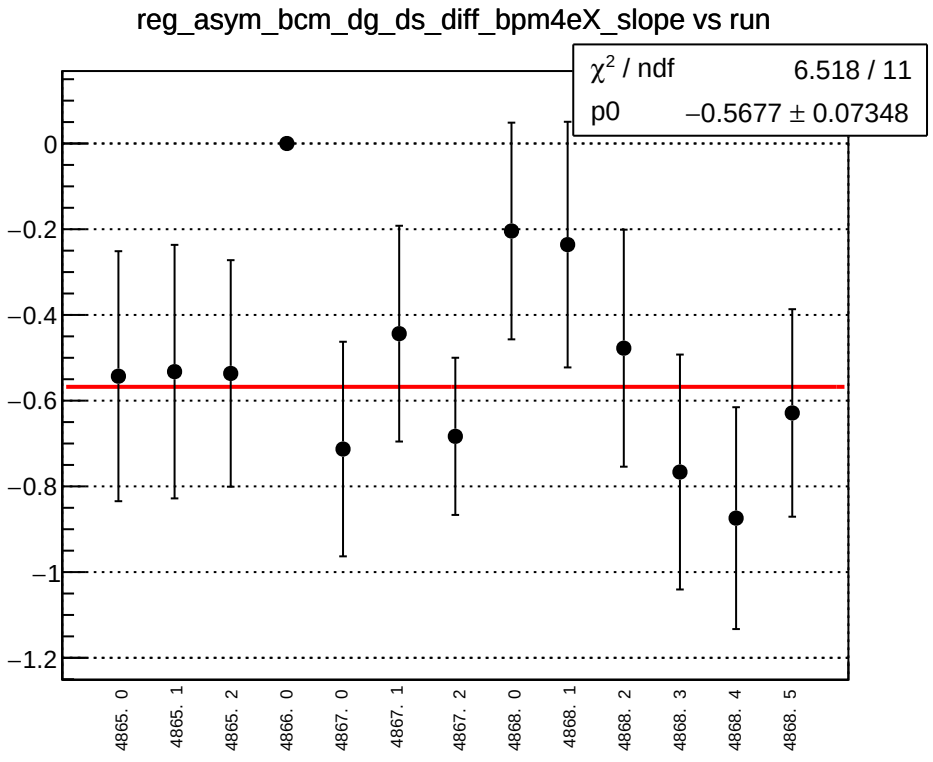
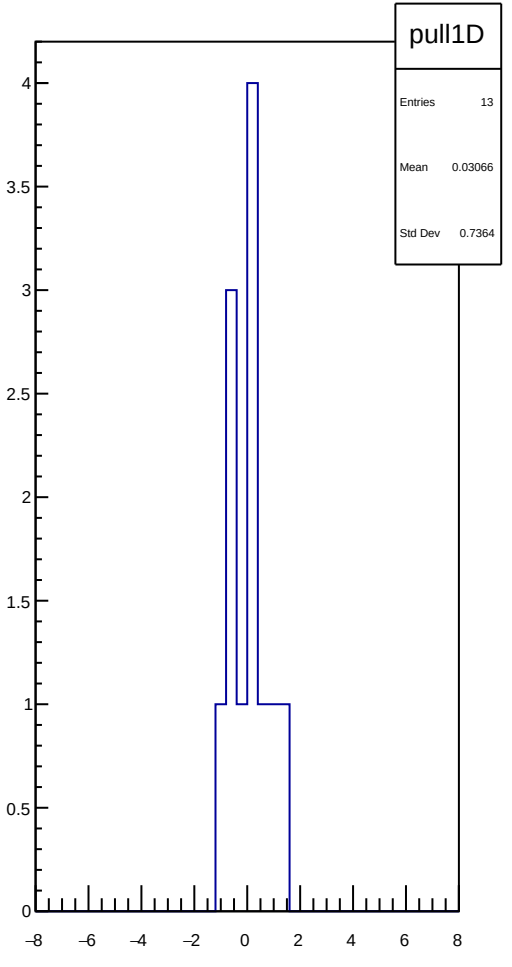
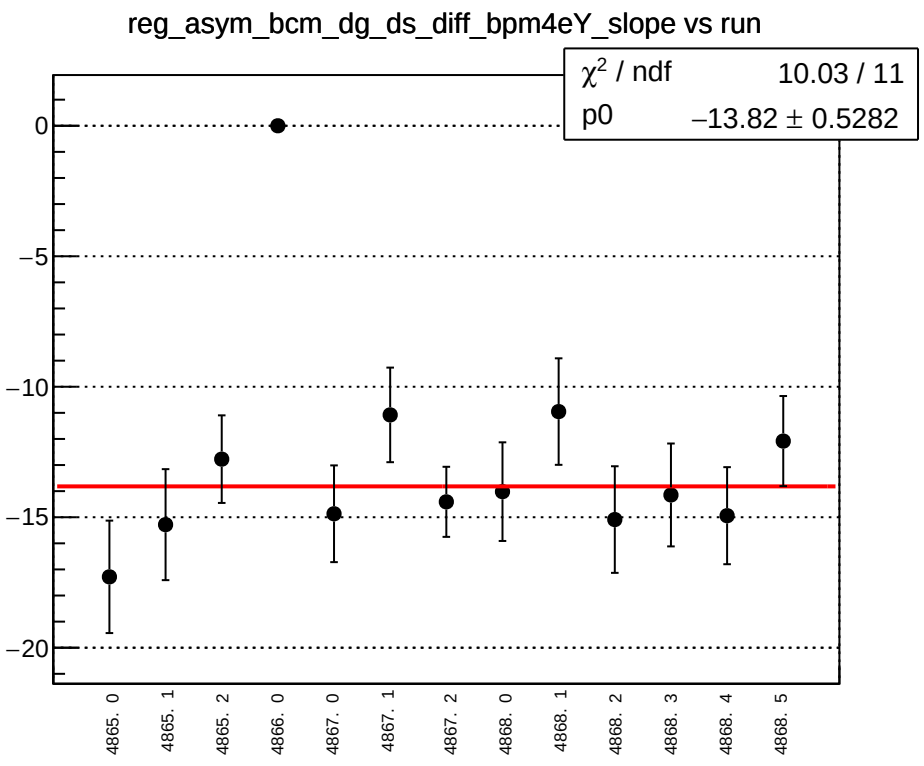
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

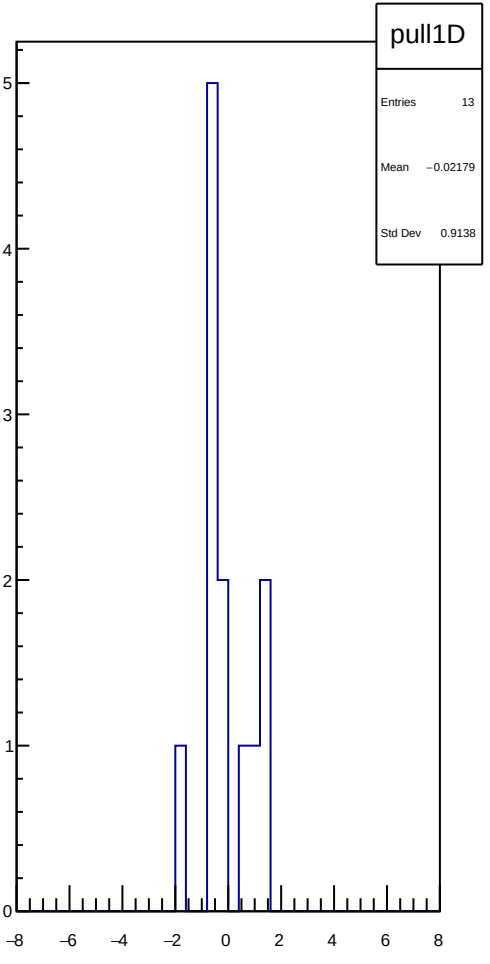

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 10.12 / 11
p0 12.73 ± 0.4656
18
16
14
12
10
8
6
4
2
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

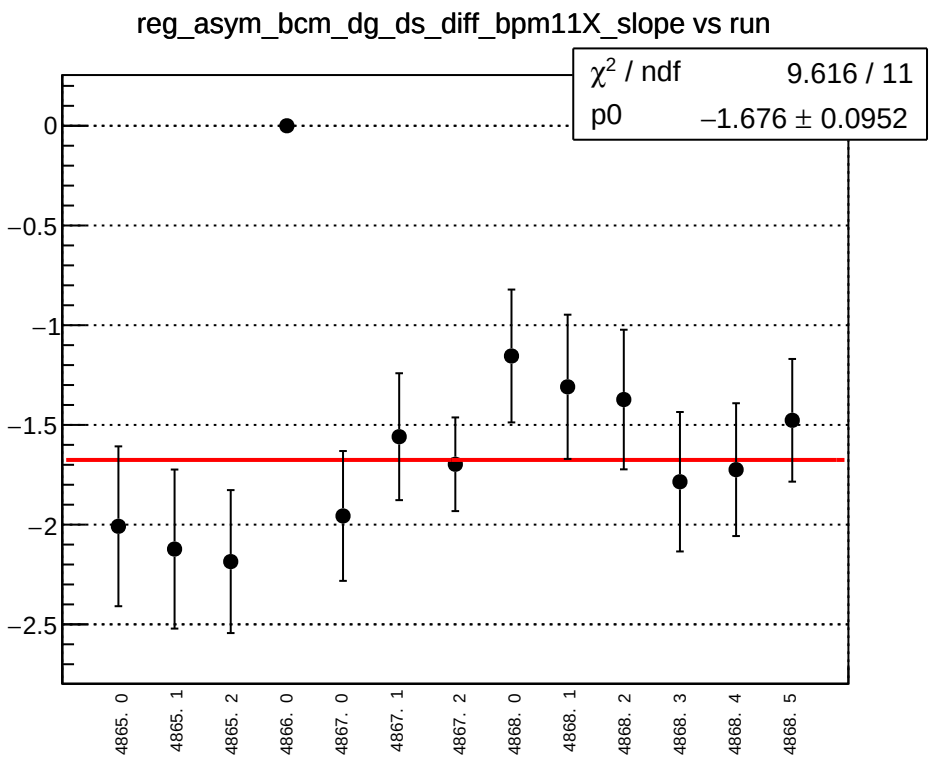

pull1D
Entries 13
Mean 0.03029
Std Dev 0.9178
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

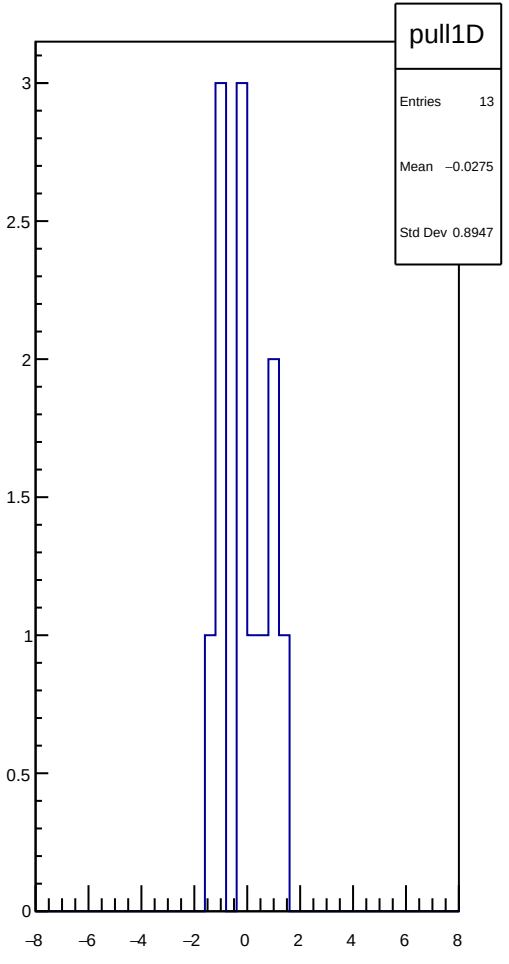

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 6.518 / 11
p0 −0.5677 ± 0.07348
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.03066
Std Dev 0.7364
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 10.03 / 11
p0 −13.82 ± 0.5282
0
−5
−10
−15
−20
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.02179
Std Dev 0.9138
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_ds_diff_bpm11X_slope vs run
χ² / ndf 9.616 / 11
p0 −1.676 ± 0.0952
0
−0.5
−1
−1.5
−2
−2.5
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.0275
Std Dev 0.8947
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2
1.5
1
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−8
−6
−4
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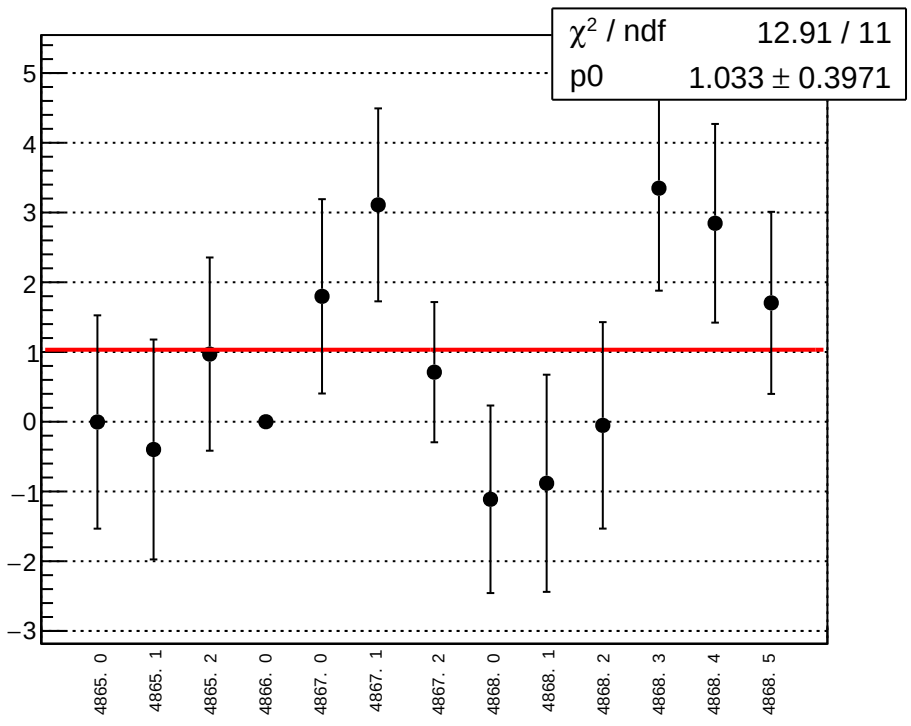
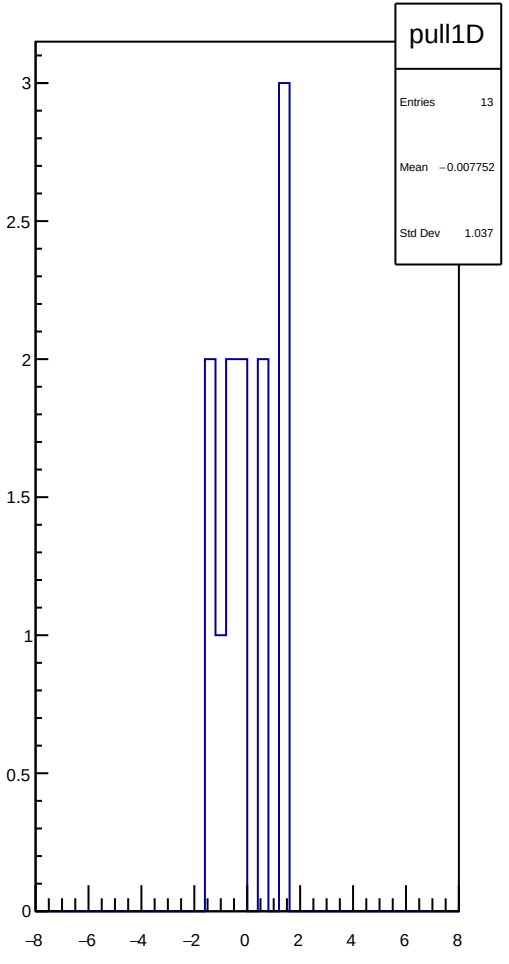
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 12.91 / 11
p0 1.033 ± 0.3971
5
4
3
2
1
0
−1
−2
−3
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.007752
Std Dev 1.037
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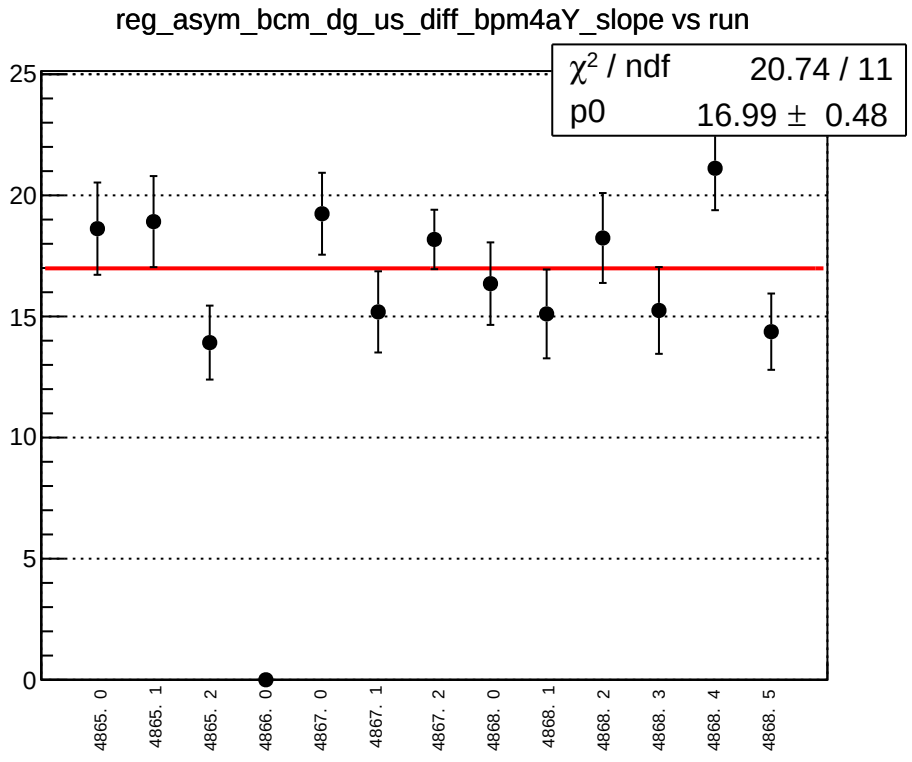
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 20.74 / 11
p0 16.99 ± 0.48
25
20
15
10
5
0
4865. 0
4865. 1
4865. 2
4866. 0
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4867. 1
4867. 2
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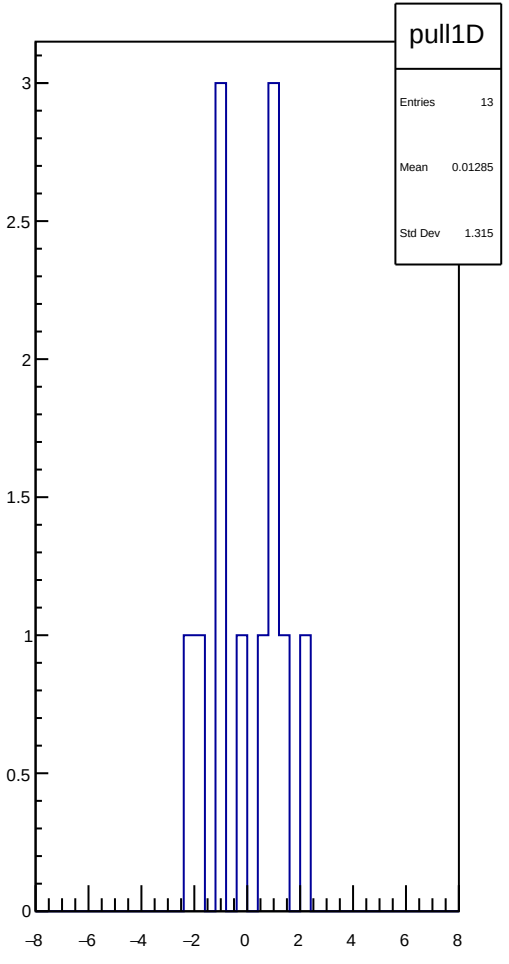
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.01285
Std Dev 1.315
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1.5
1
0.5
0
−8
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−4
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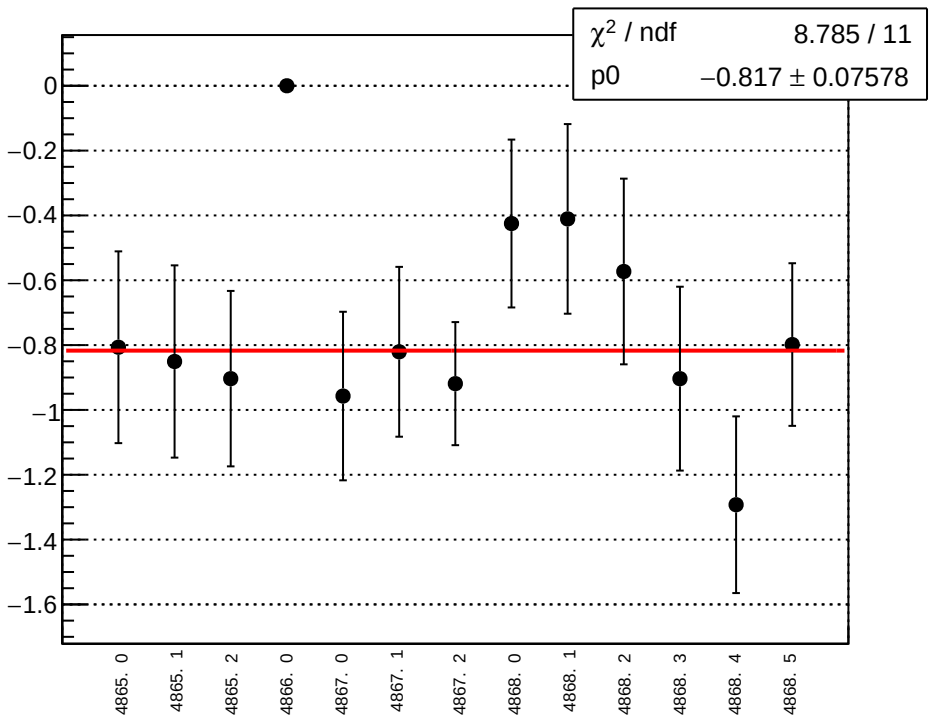
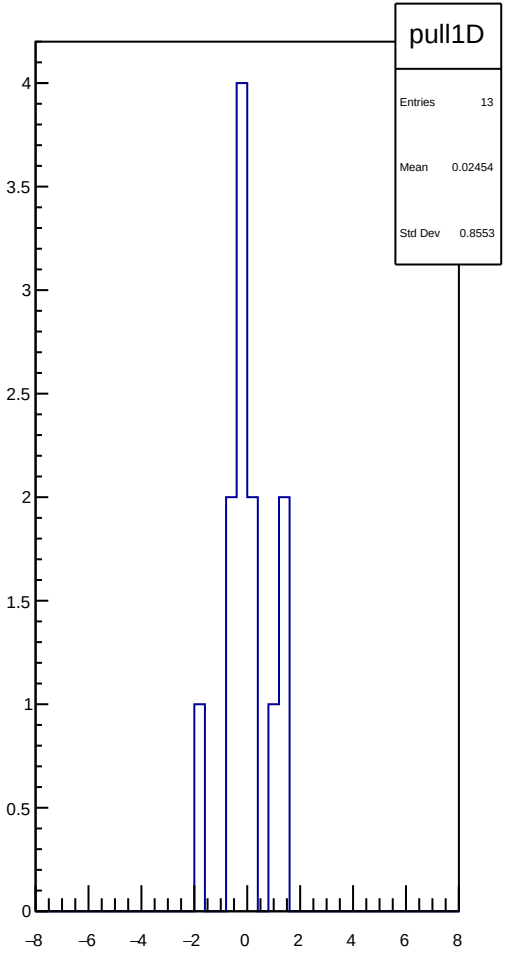
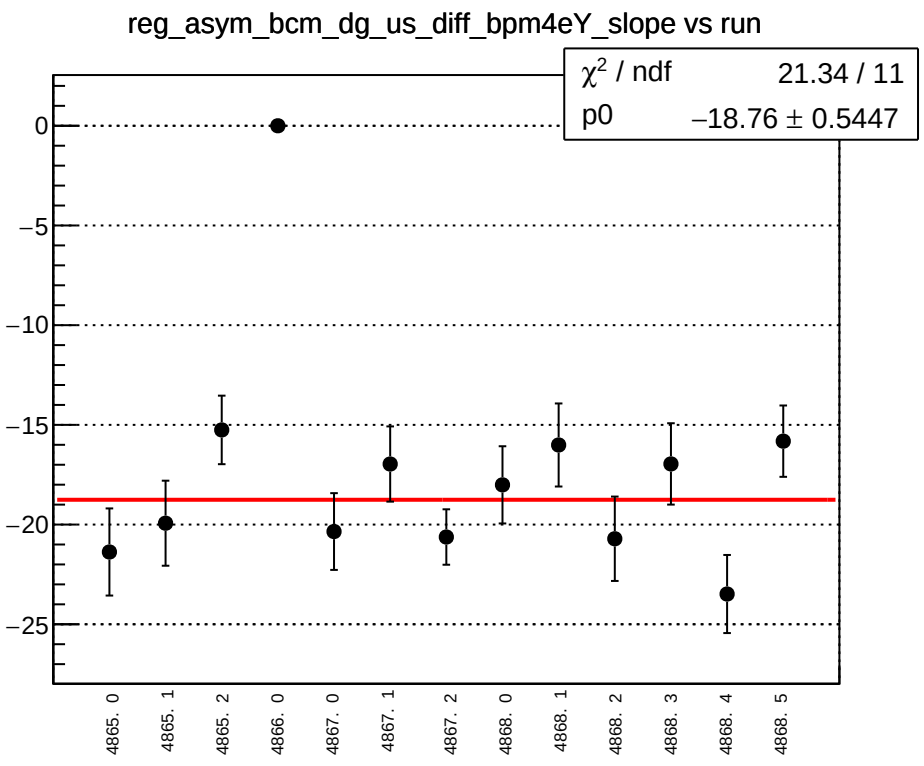
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 8.785 / 11
p0 −0.817 ± 0.07578
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
−1.6
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.02454
Std Dev 0.8553
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 21.34 / 11
p0 −18.76 ± 0.5447
0
−5
−10
−15
−20
−25
4865. 0
4865. 1
4865. 2
4866. 0
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4867. 1
4867. 2
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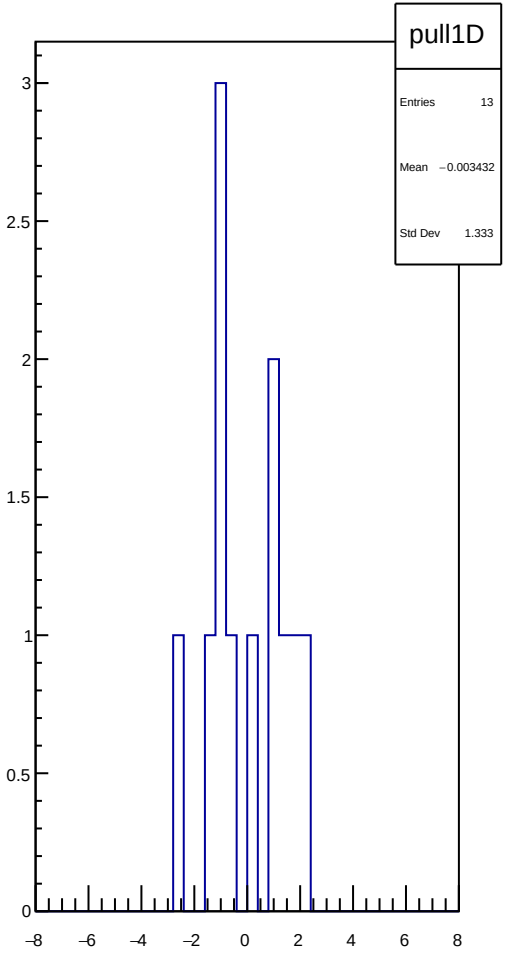
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.003432
Std Dev 1.333
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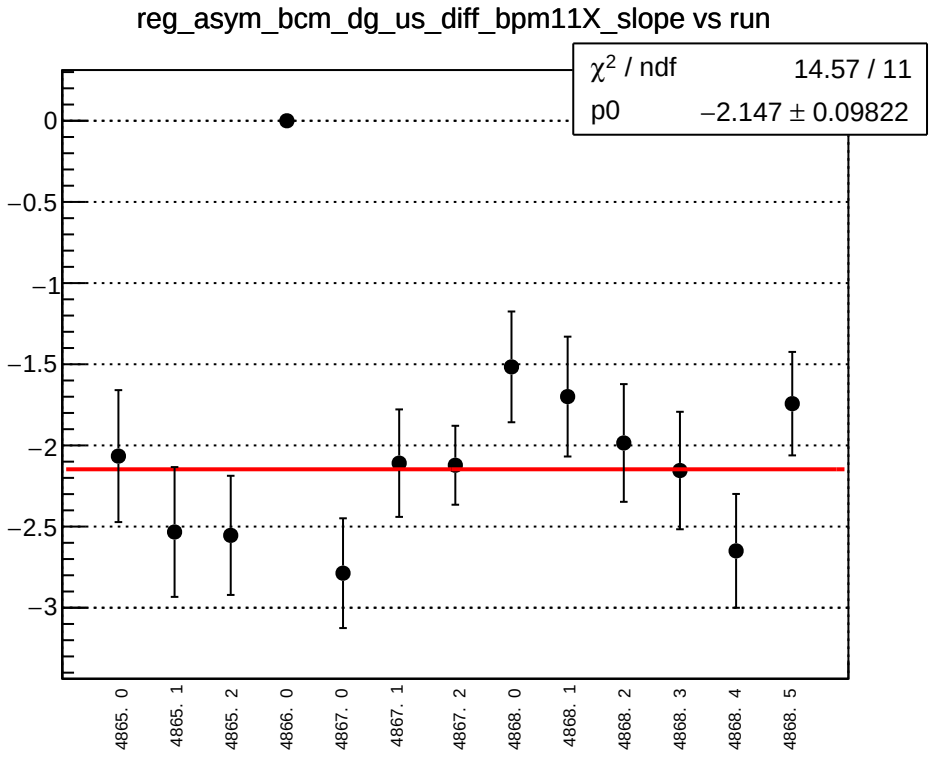
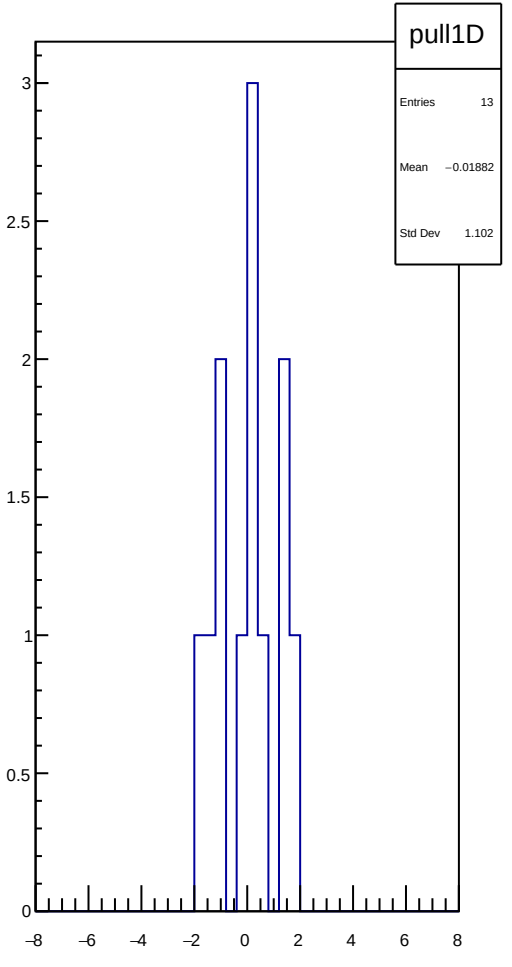
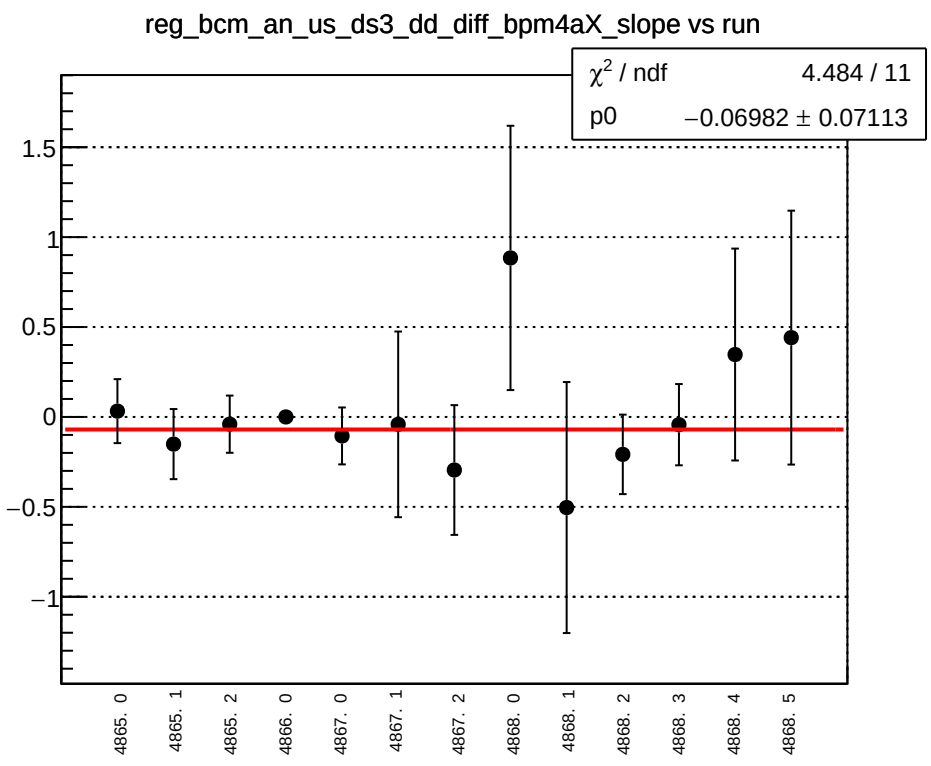
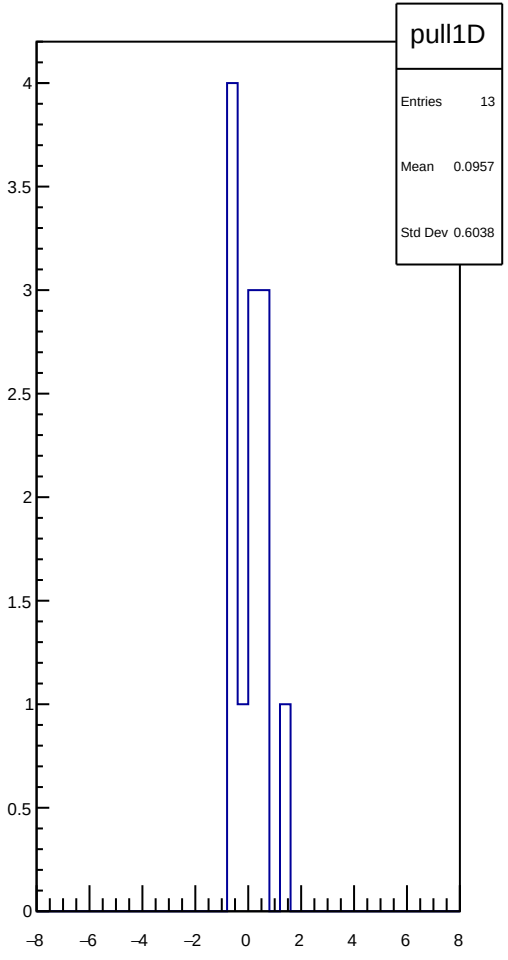
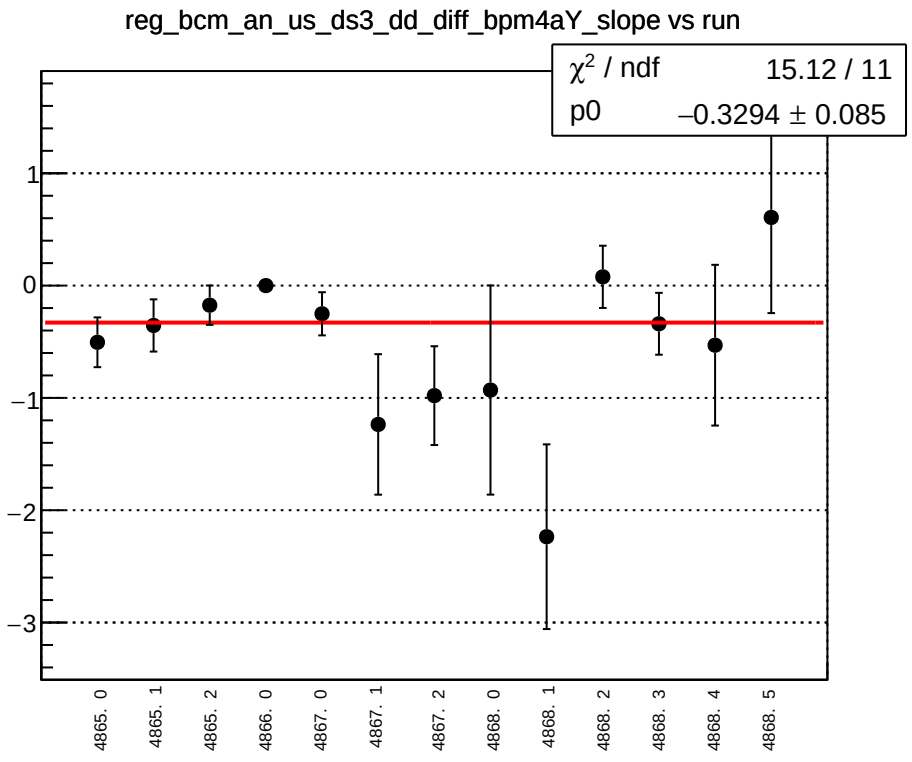
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

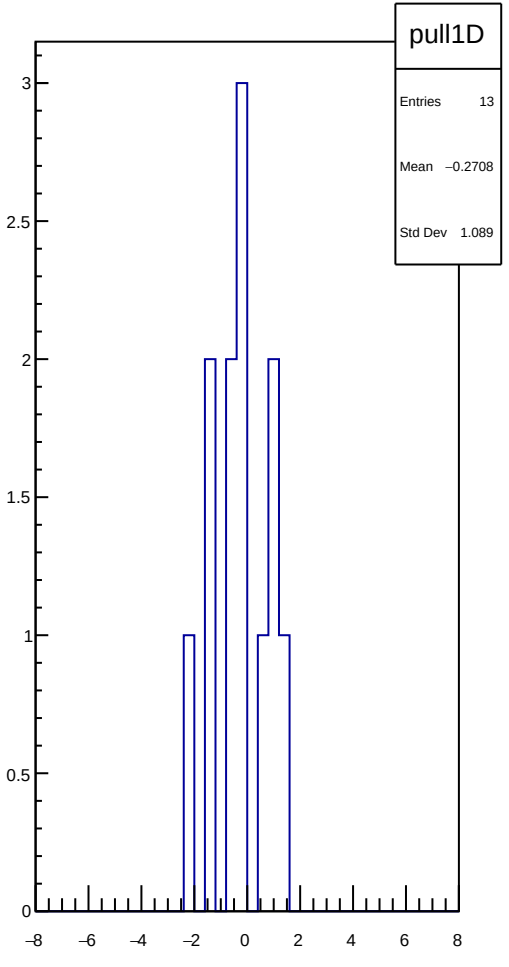

reg_asym_bcm_dg_us_diff_bpm11X_slope vs run
χ² / ndf 14.57 / 11
p0 −2.147 ± 0.09822
0
−0.5
−1
−1.5
−2
−2.5
−3
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

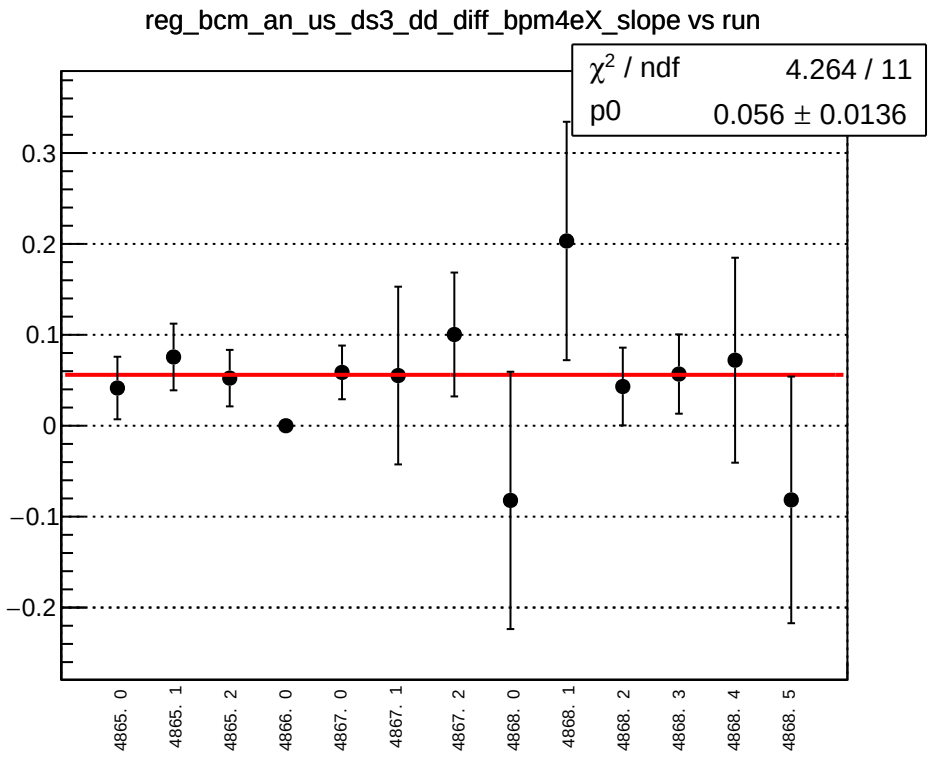

pull1D
Entries 13
Mean −0.01882
Std Dev 1.102
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

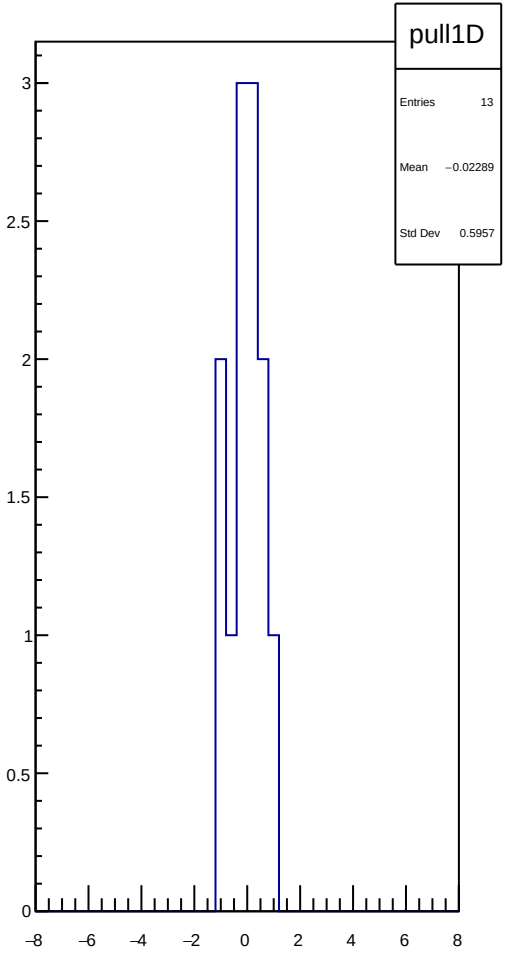

reg_bcm_an_us_ds3_dd_diff_bpm4aX_slope vs run
χ² / ndf 4.484 / 11
p0 −0.06982 ± 0.07113
1.5
1
0.5
0
−0.5
−1
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

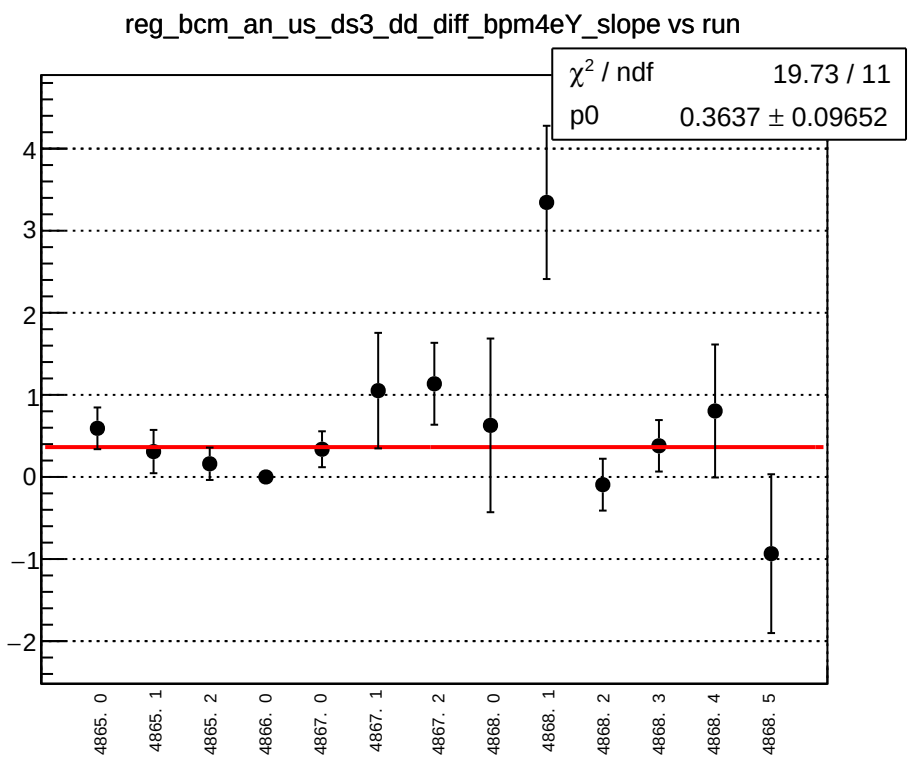

pull1D
Entries 13
Mean 0.0957
Std Dev 0.6038
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

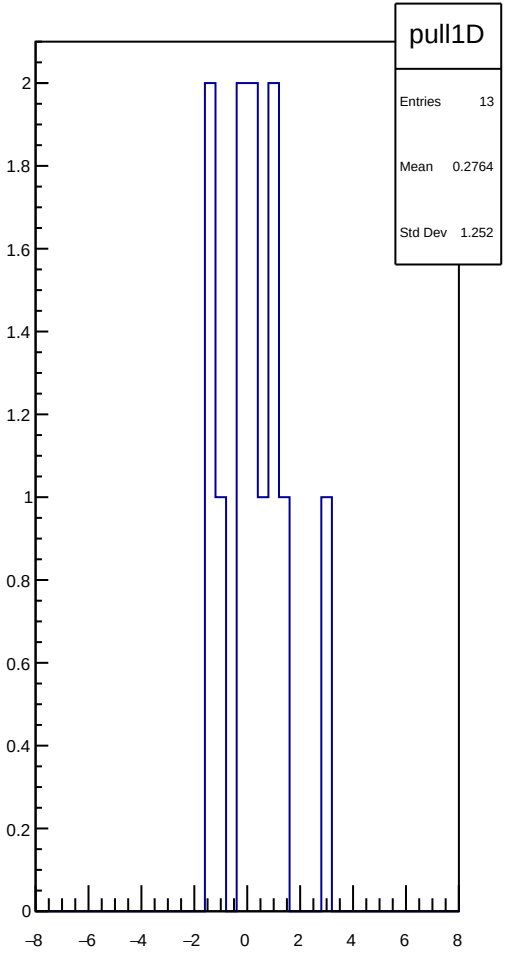

reg_bcm_an_us_ds3_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.12 / 11
p0 −0.3294 ± 0.085
1
0
−1
−2
−3
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

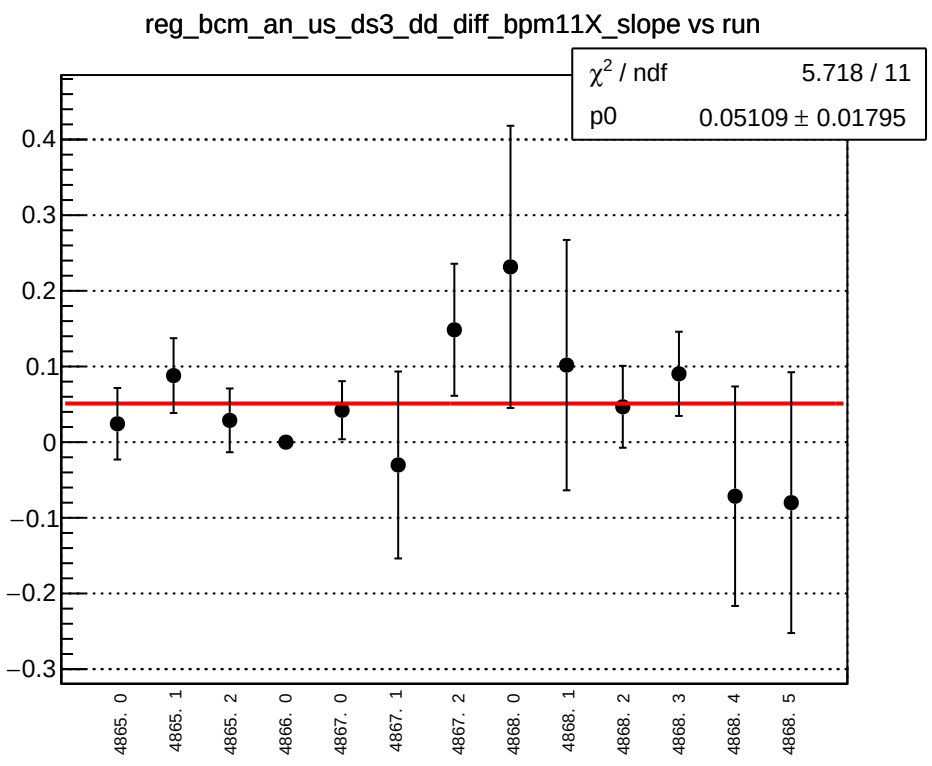

pull1D
Entries 13
Mean −0.2708
Std Dev 1.089
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

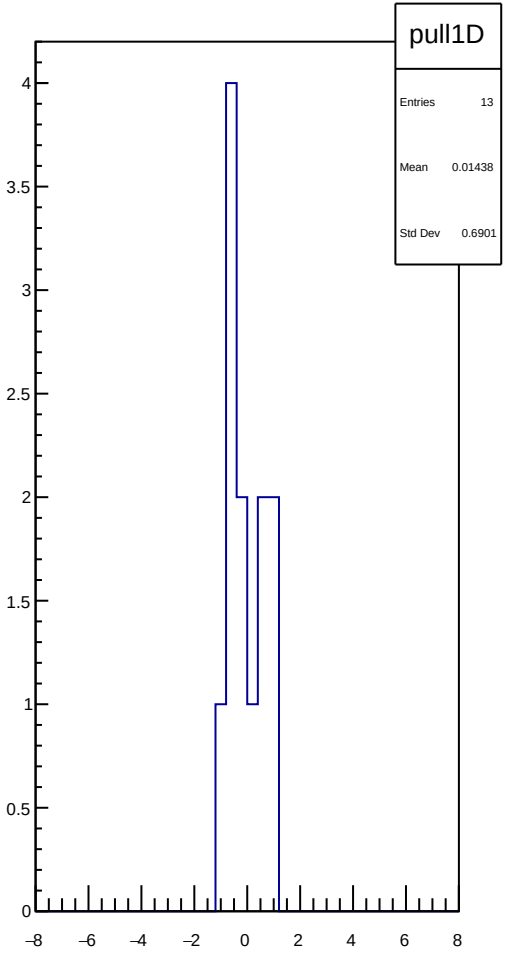

reg_bcm_an_us_ds3_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.264 / 11
p0 0.056 ± 0.0136
0.3
0.2
0.1
0
−0.1
−0.2
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

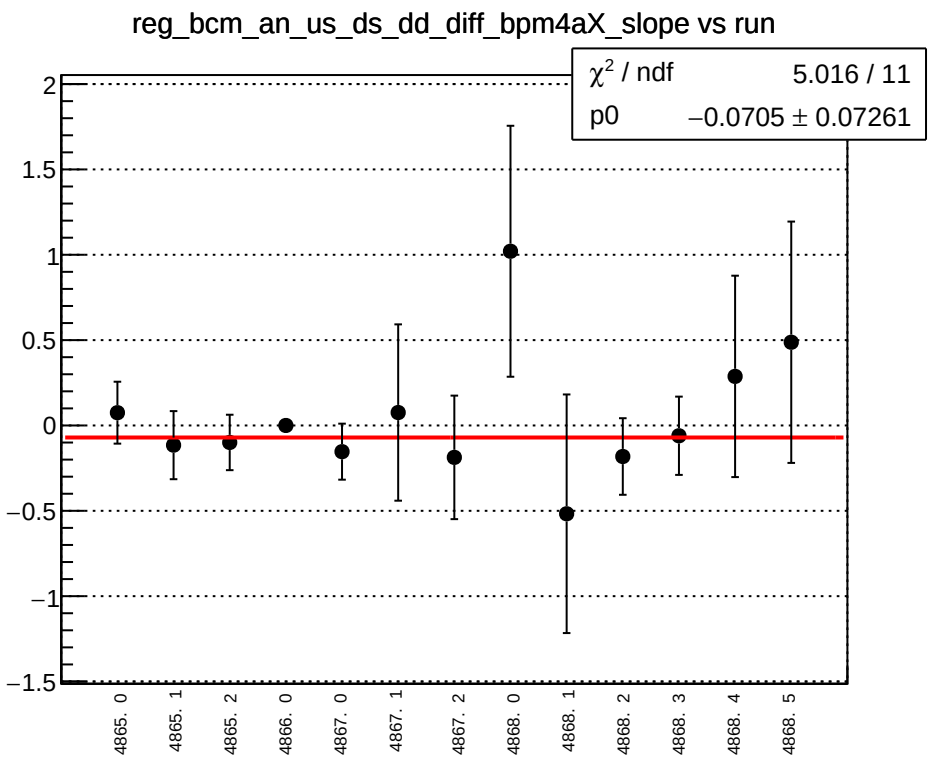

pull1D
Entries 13
Mean −0.02289
Std Dev 0.5957
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

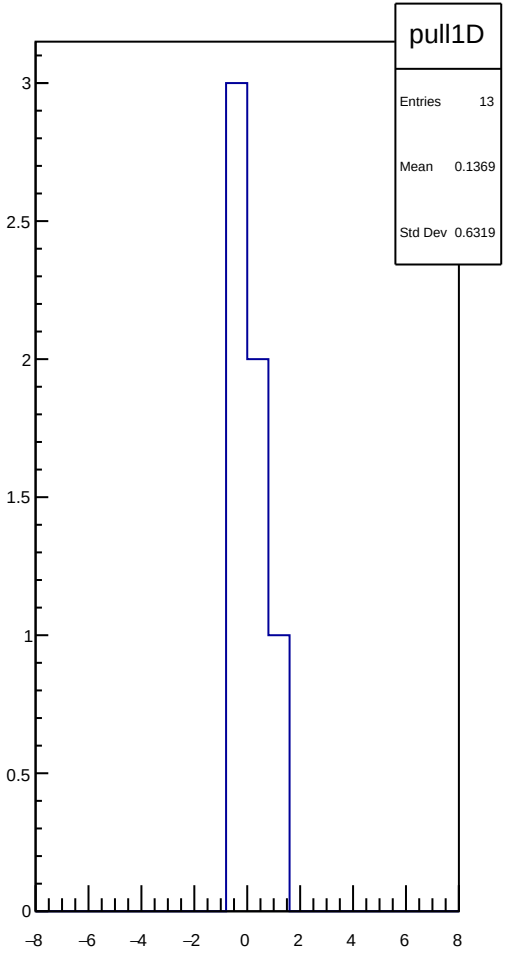

reg_bcm_an_us_ds3_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.73 / 11
p0 0.3637 ± 0.09652
4
3
2
1
0
−1
−2
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

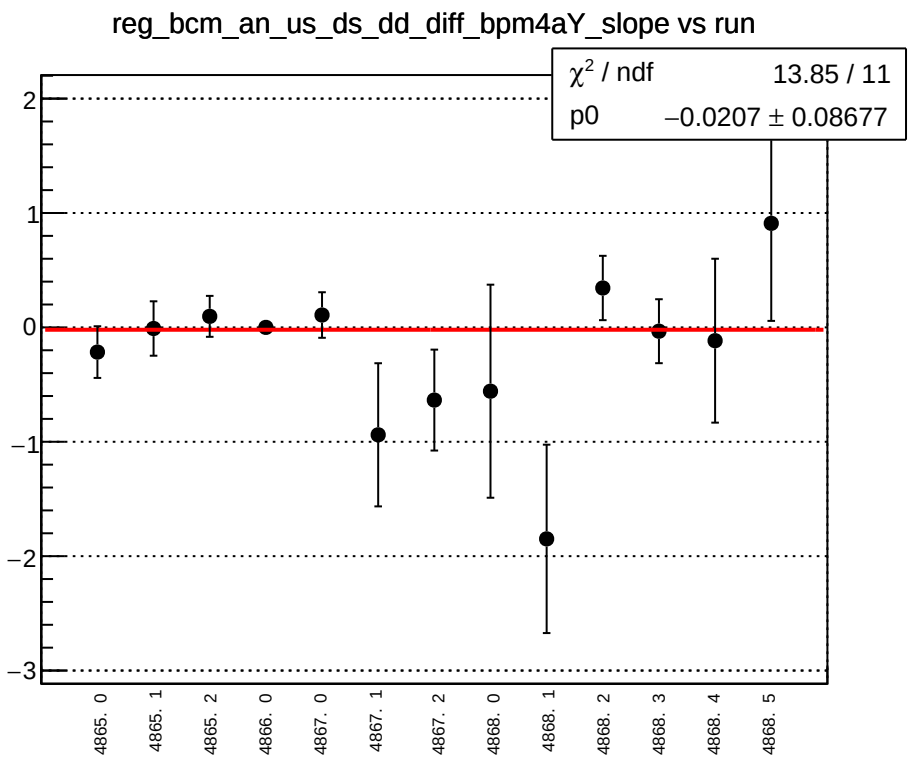

pull1D
Entries 13
Mean 0.2764
Std Dev 1.252
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

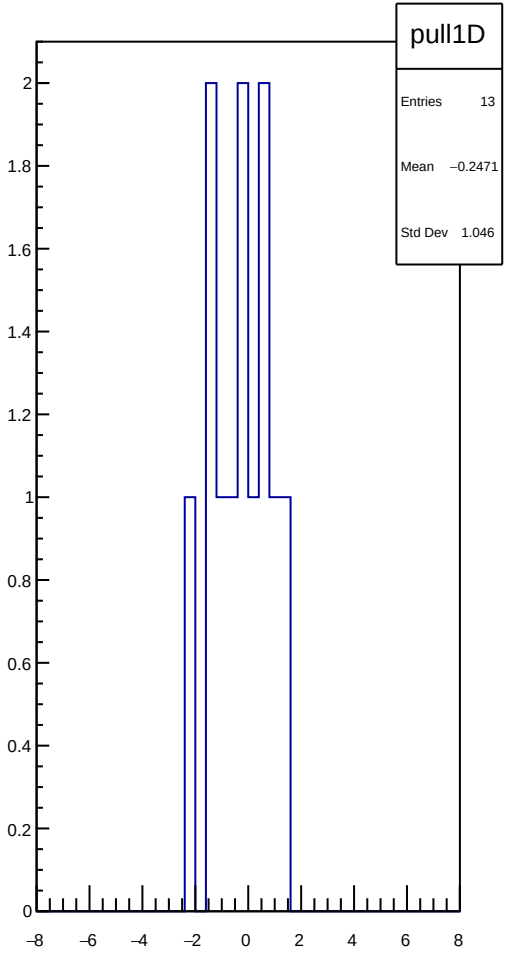

reg_bcm_an_us_ds3_dd_diff_bpm11X_slope vs run
χ² / ndf 5.718 / 11
p0 0.05109 ± 0.01795
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

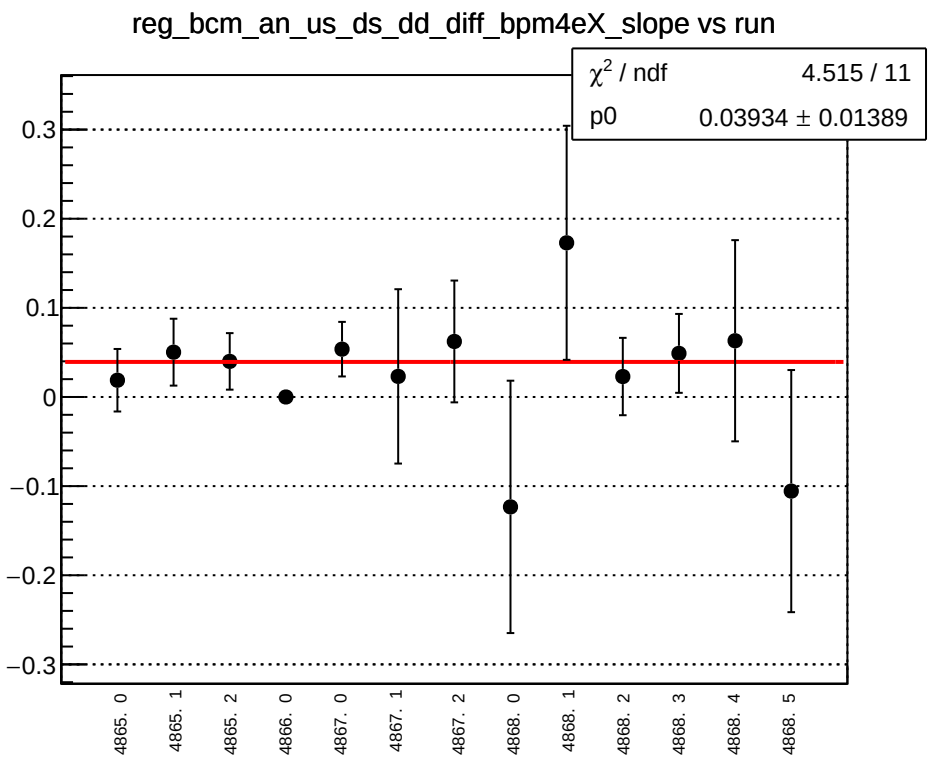

pull1D
Entries 13
Mean 0.01438
Std Dev 0.6901
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

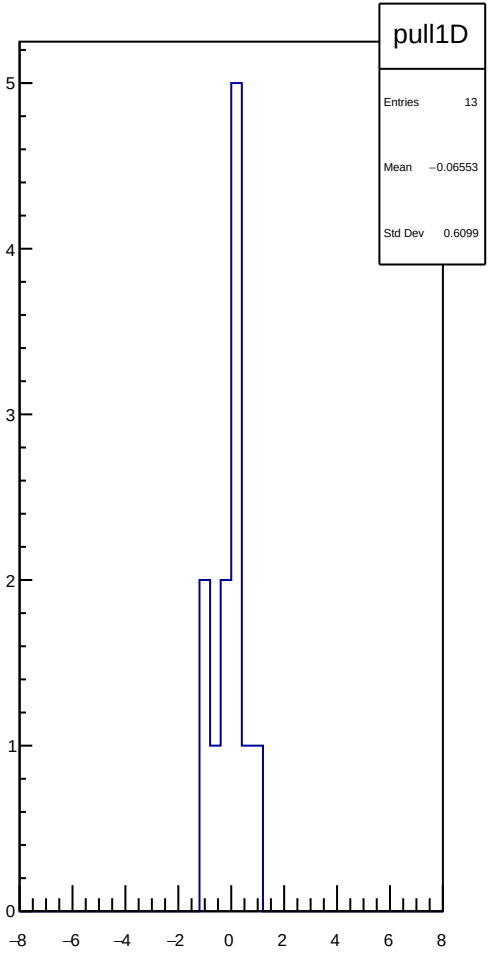

reg_bcm_an_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 5.016 / 11
p0 −0.0705 ± 0.07261
2
1.5
1
0.5
0
−0.5
−1
−1.5
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

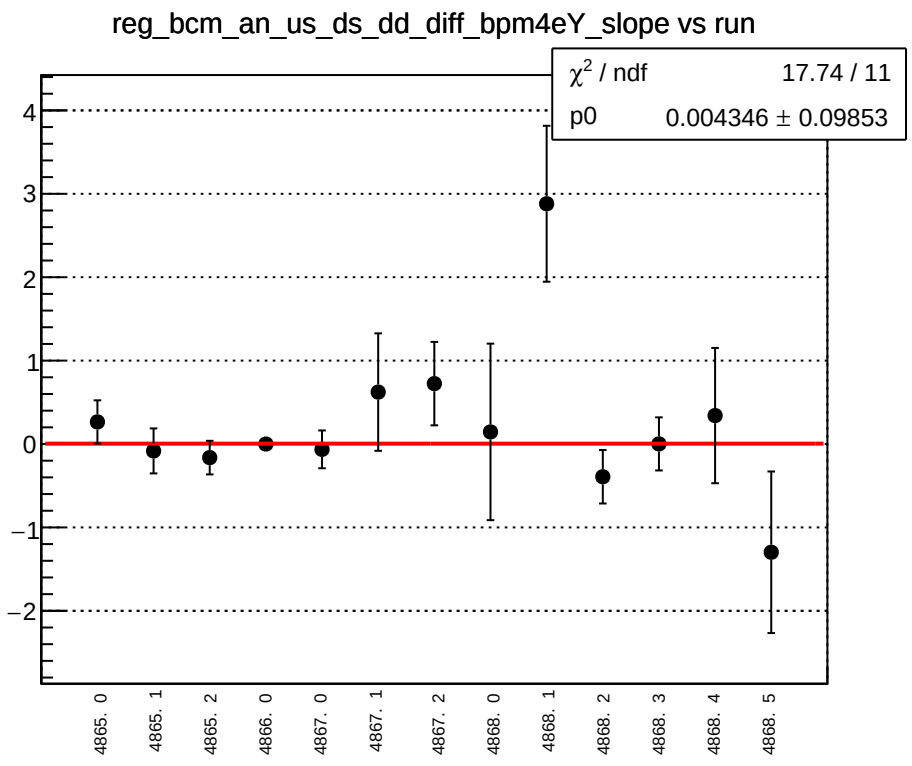

pull1D
Entries 13
Mean 0.1369
Std Dev 0.6319
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

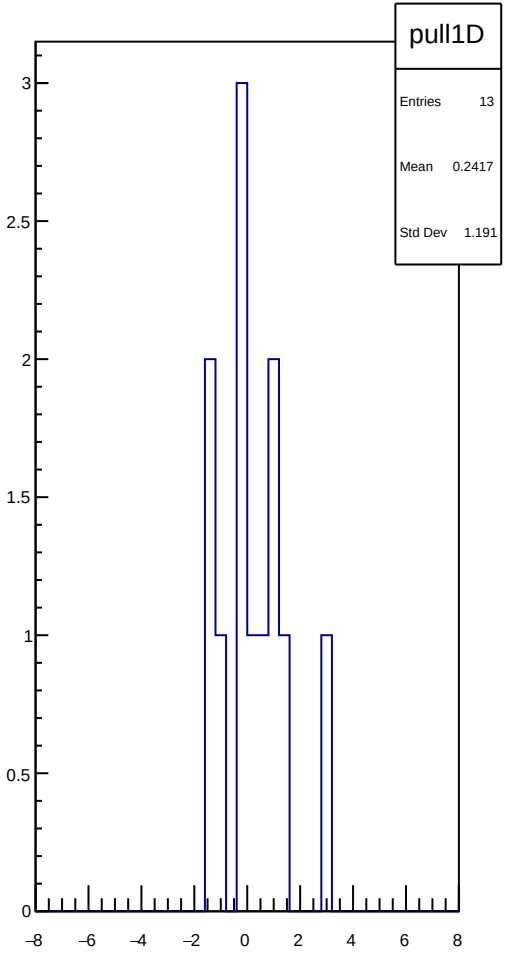

reg_bcm_an_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.85 / 11
p0 −0.0207 ± 0.08677
2
1
0
−1
−2
−3
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

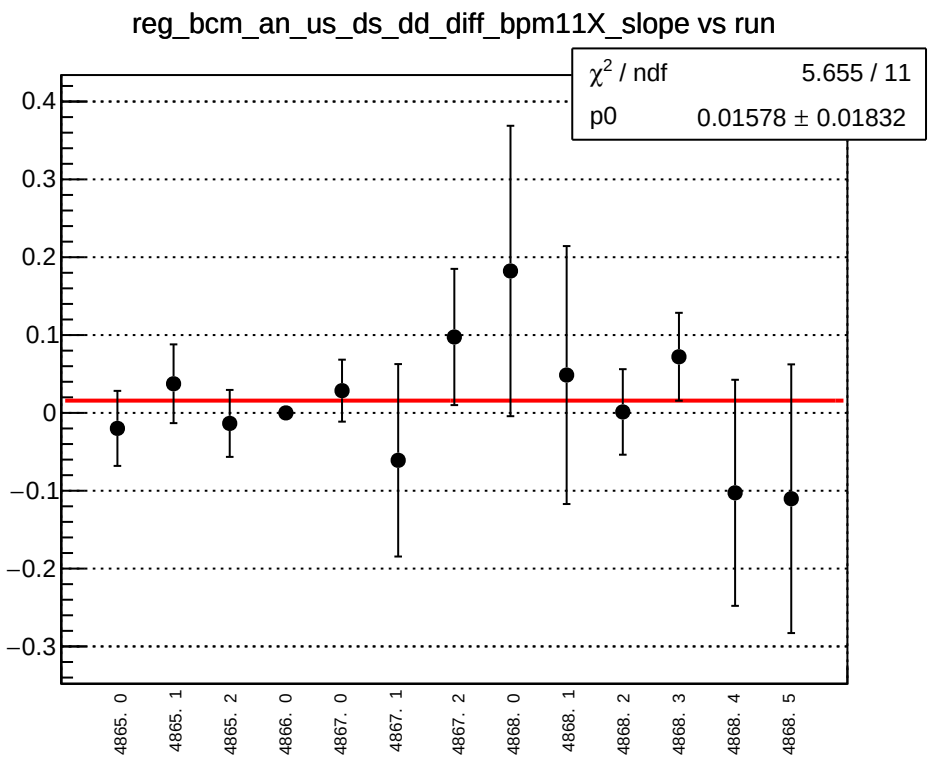

pull1D
Entries 13
Mean −0.2471
Std Dev 1.046
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

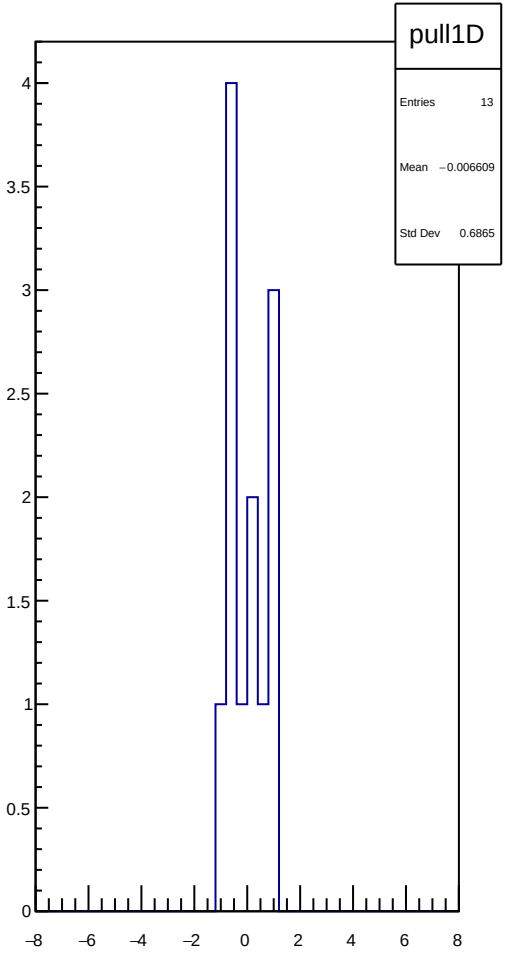

reg_bcm_an_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.515 / 11
p0 0.03934 ± 0.01389
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

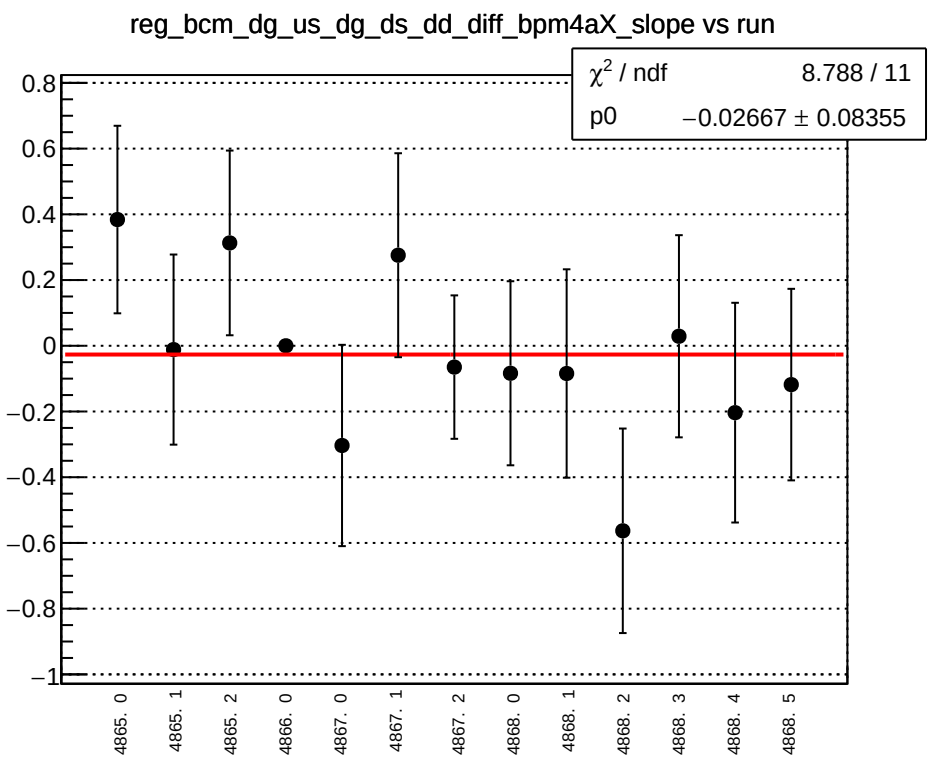

pull1D
Entries 13
Mean −0.06553
Std Dev 0.6099
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

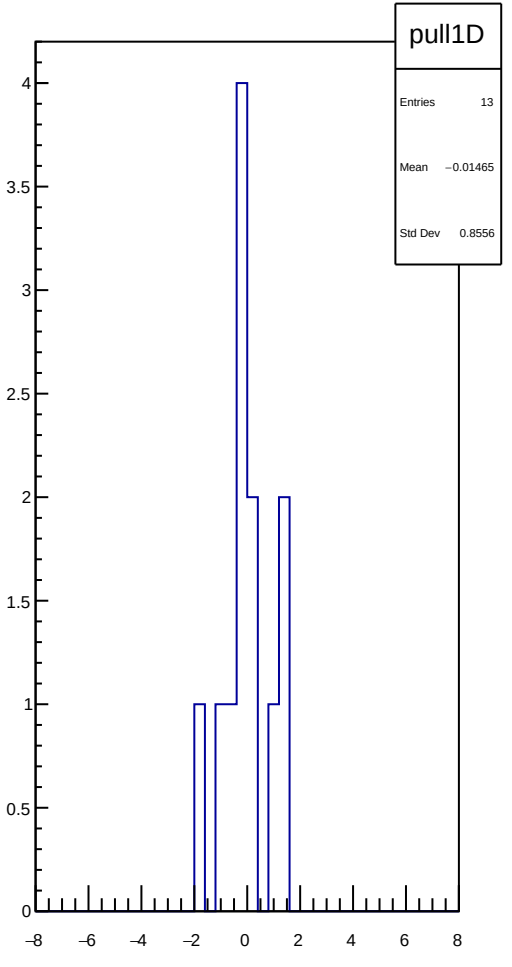

reg_bcm_an_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.74 / 11
p0 0.004346 ± 0.09853
4
3
2
1
0
−1
−2
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

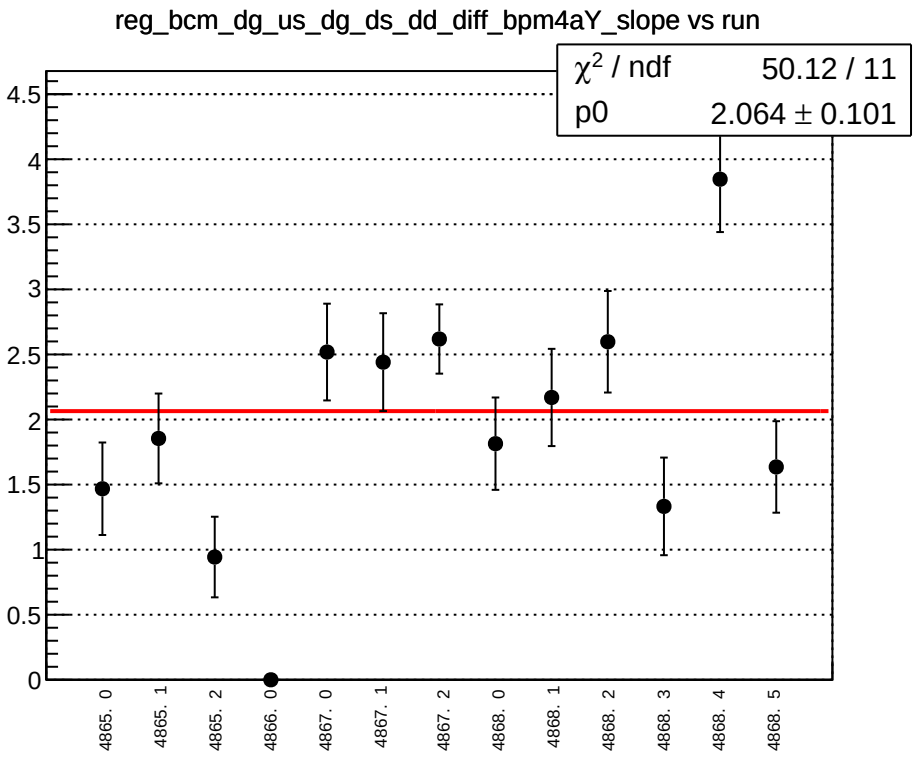

pull1D
Entries 13
Mean 0.2417
Std Dev 1.191
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

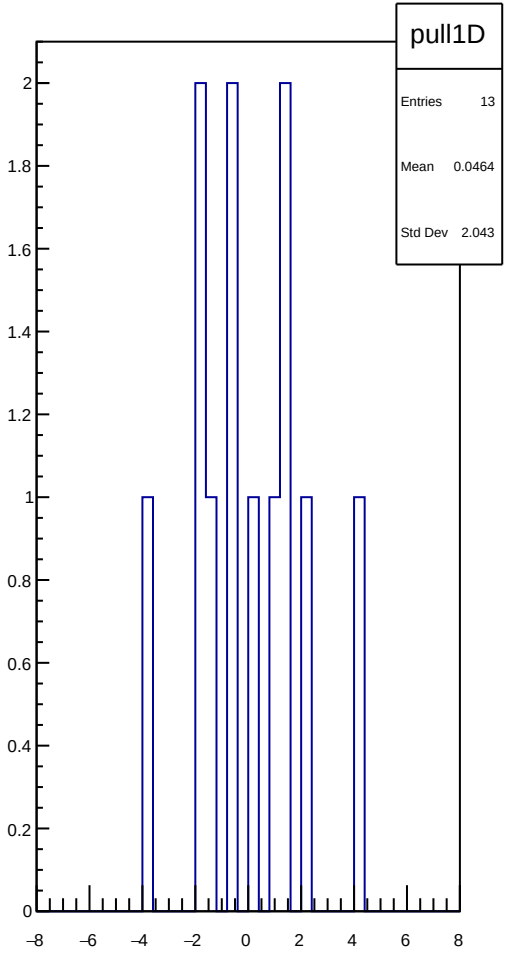

reg_bcm_an_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 5.655 / 11
p0 0.01578 ± 0.01832
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

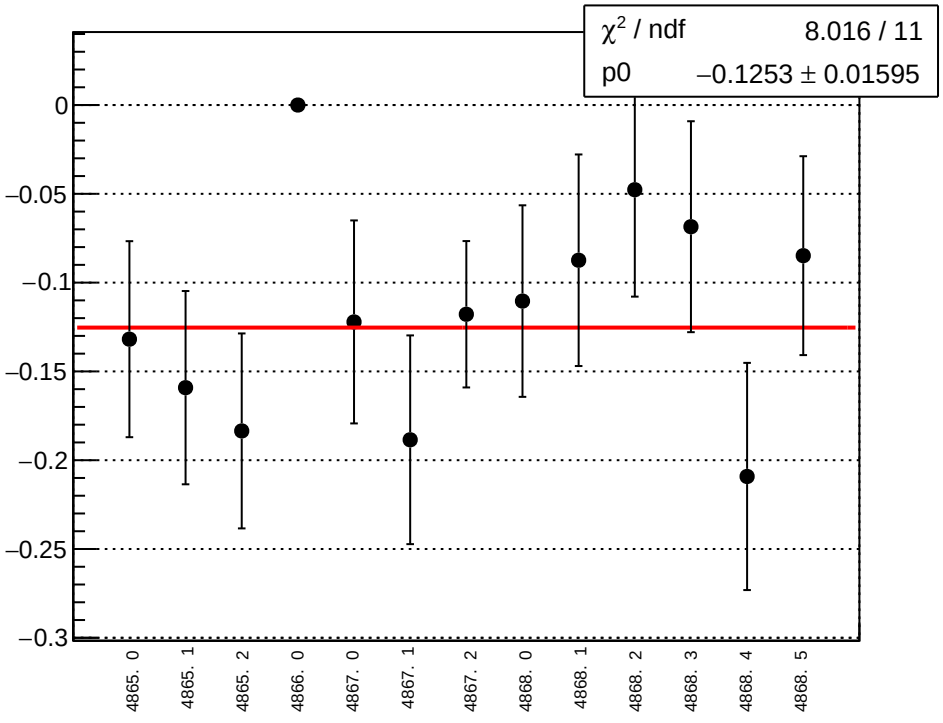

pull1D
Entries 13
Mean −0.006609
Std Dev 0.6865
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

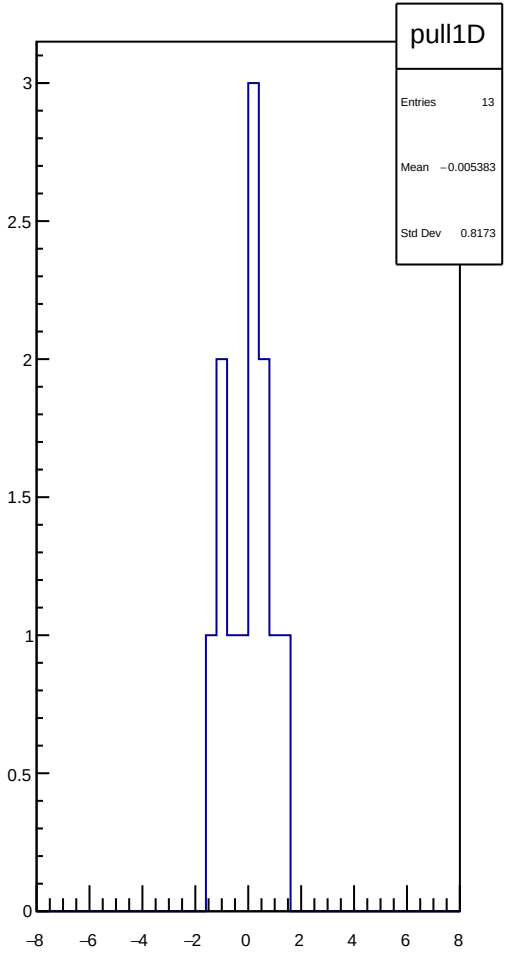

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 8.788 / 11
p0 −0.02667 ± 0.08355
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

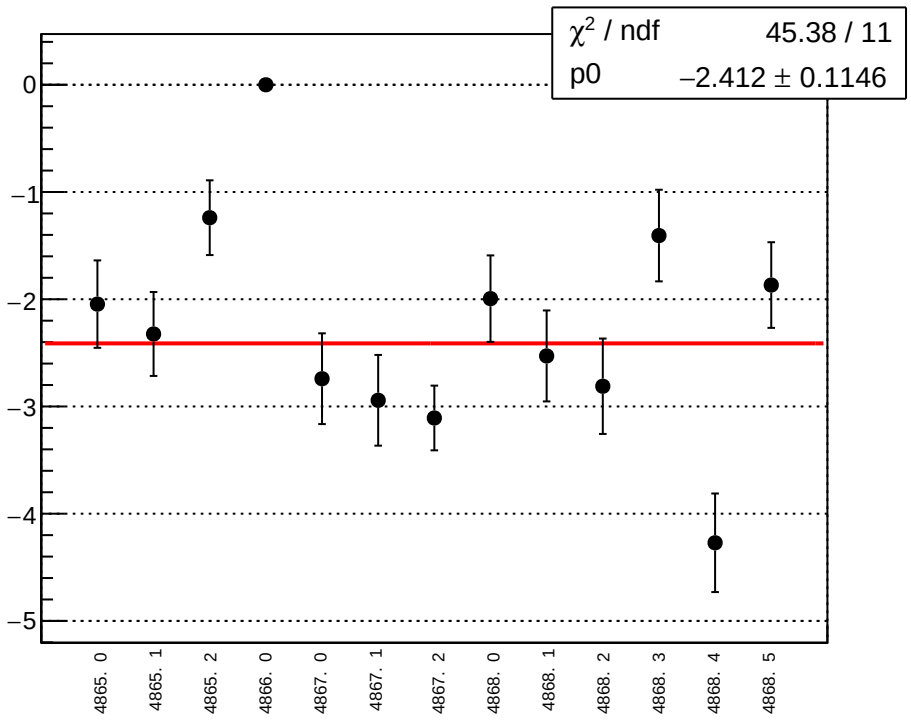

pull1D
Entries 13
Mean −0.01465
Std Dev 0.8556
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

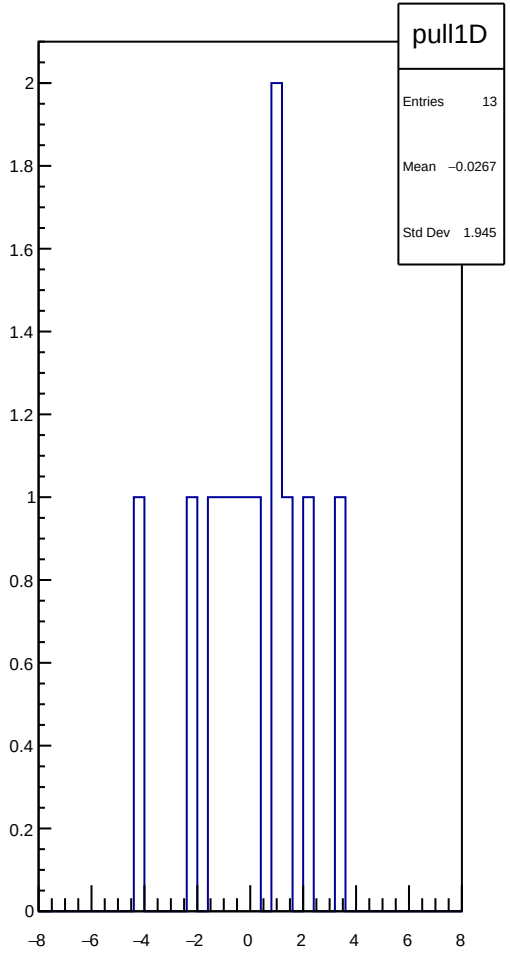

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 50.12 / 11
p0 2.064 ± 0.101
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

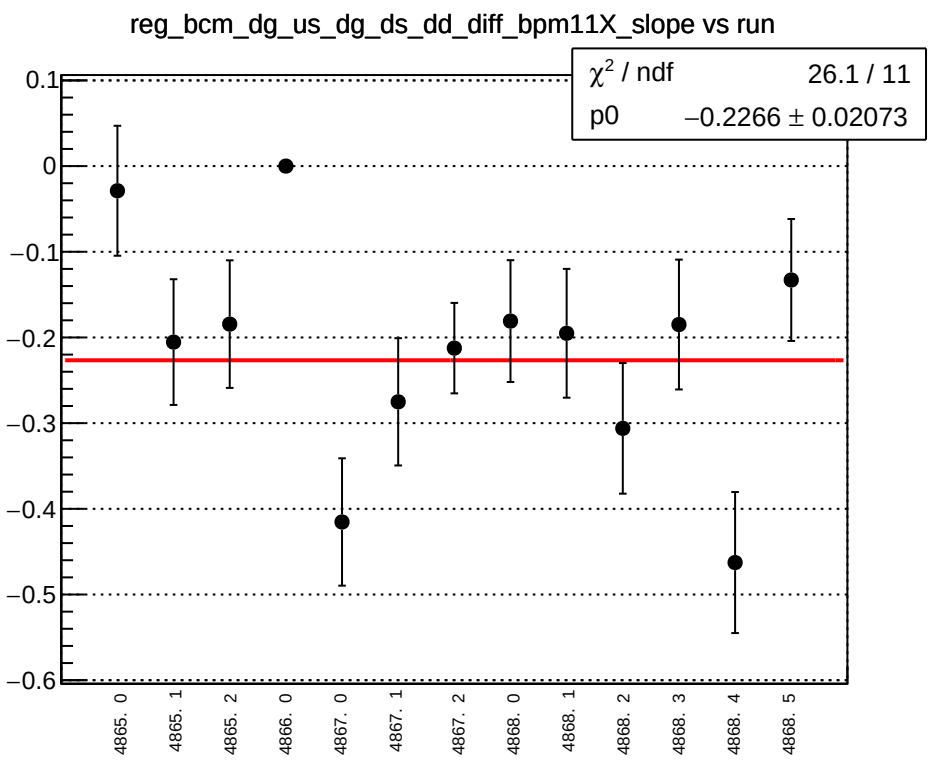

pull1D
Entries 13
Mean 0.0464
Std Dev 2.043
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

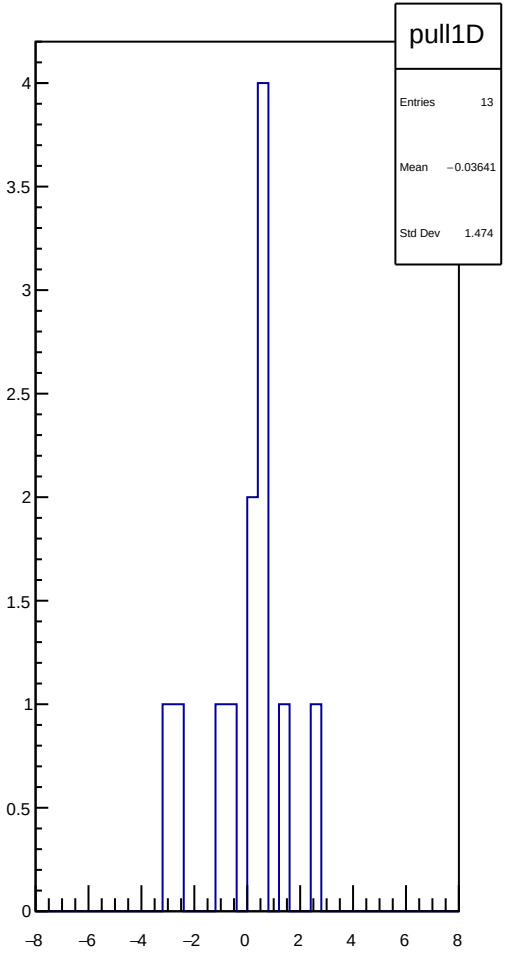

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.016 / 11
p0 −0.1253 ± 0.01595
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

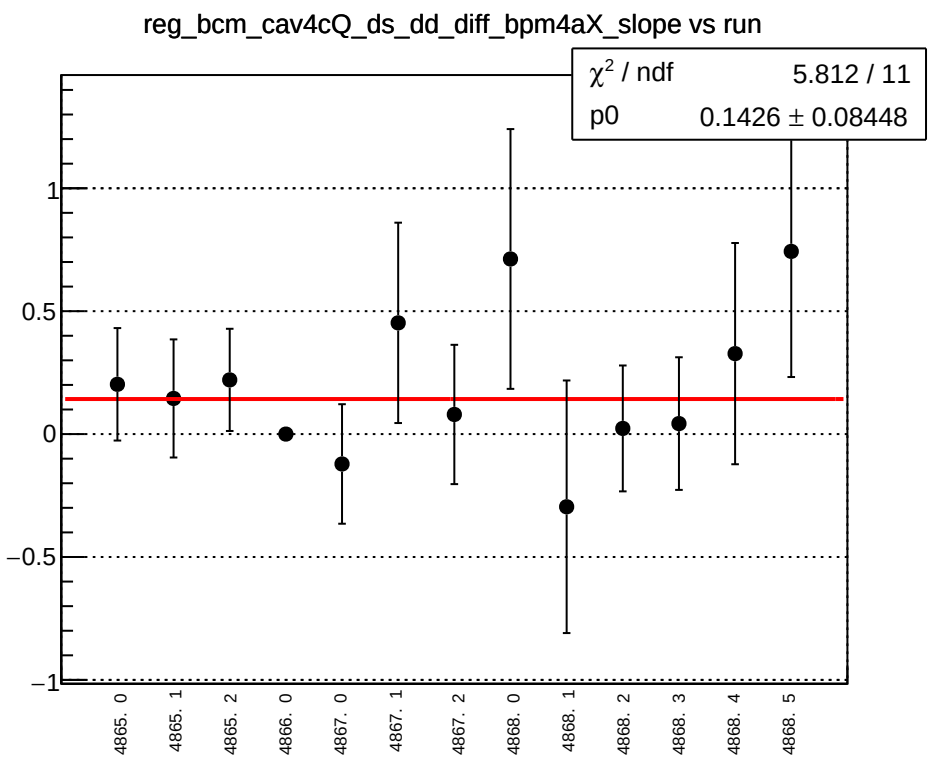

pull1D
Entries 13
Mean −0.005383
Std Dev 0.8173
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

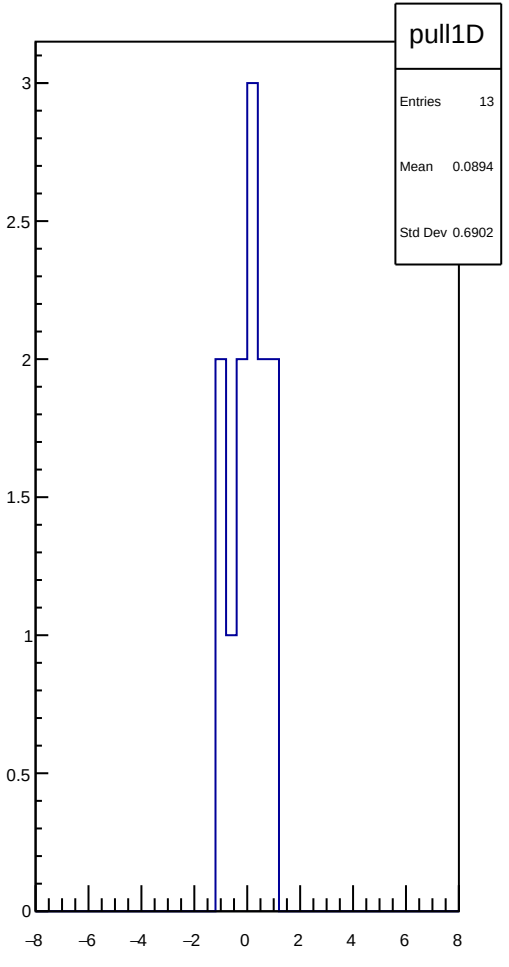

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 45.38 / 11
p0 −2.412 ± 0.1146
0
−1
−2
−3
−4
−5
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

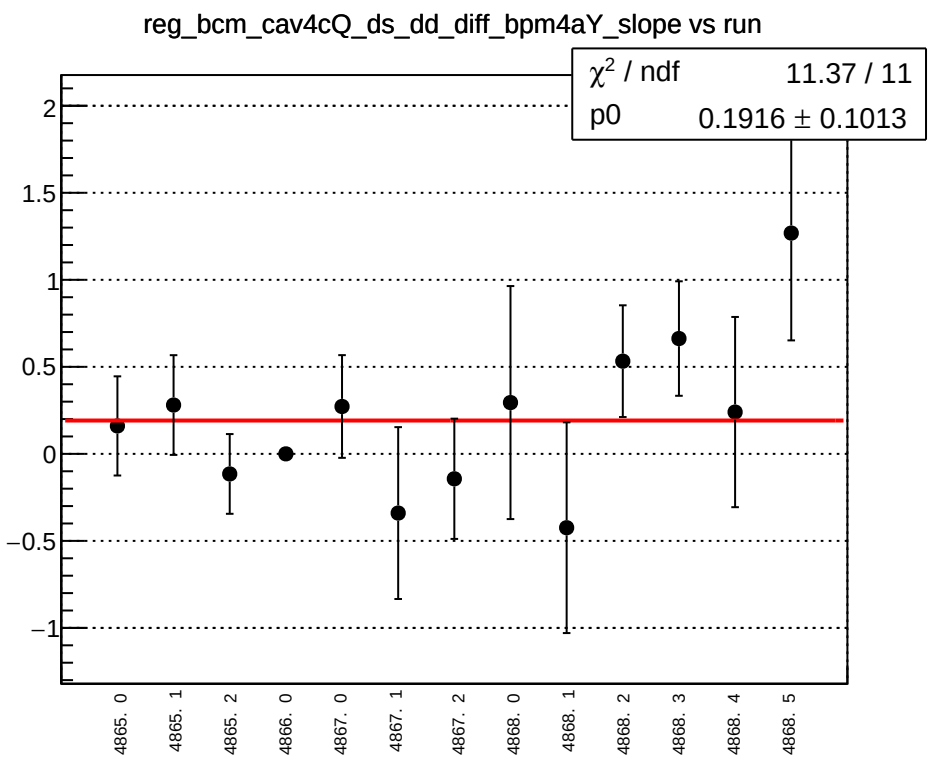

pull1D
Entries 13
Mean −0.0267
Std Dev 1.945
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

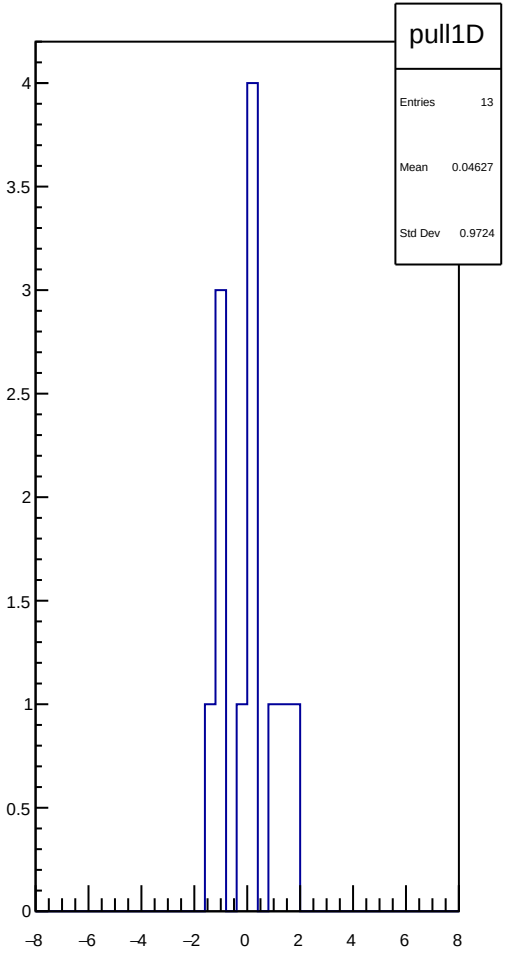

reg_bcm_dg_us_dg_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 26.1 / 11
p0 −0.2266 ± 0.02073
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5

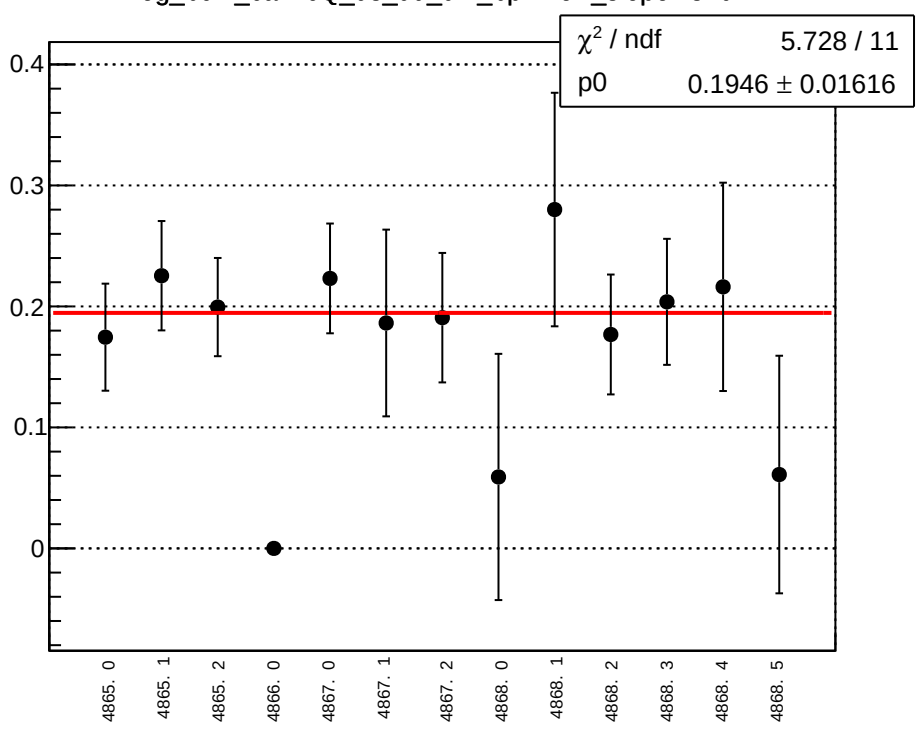

pull1D
Entries 13
Mean −0.03641
Std Dev 1.474
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_bcm_cav4cQ_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 5.812 / 11
p0 0.1426 ± 0.08448
1
0.5
0
−0.5
−1
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.0894
Std Dev 0.6902
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_bcm_cav4cQ_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.37 / 11
p0 0.1916 ± 0.1013
2
1.5
1
0.5
0
−0.5
−1
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.04627
Std Dev 0.9724
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_bcm_cav4cQ_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.728 / 11
p0 0.1946 ± 0.01616
0.4
0.3
0.2
0.1
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
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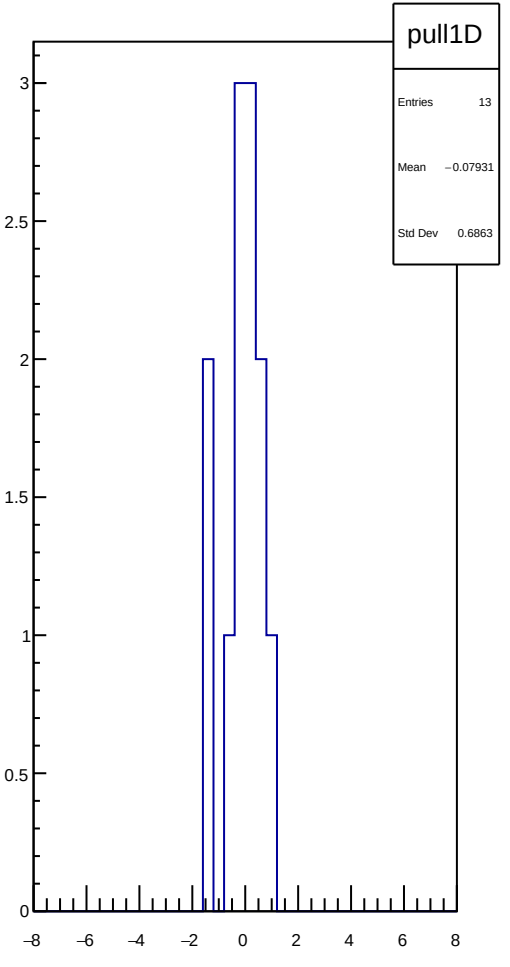
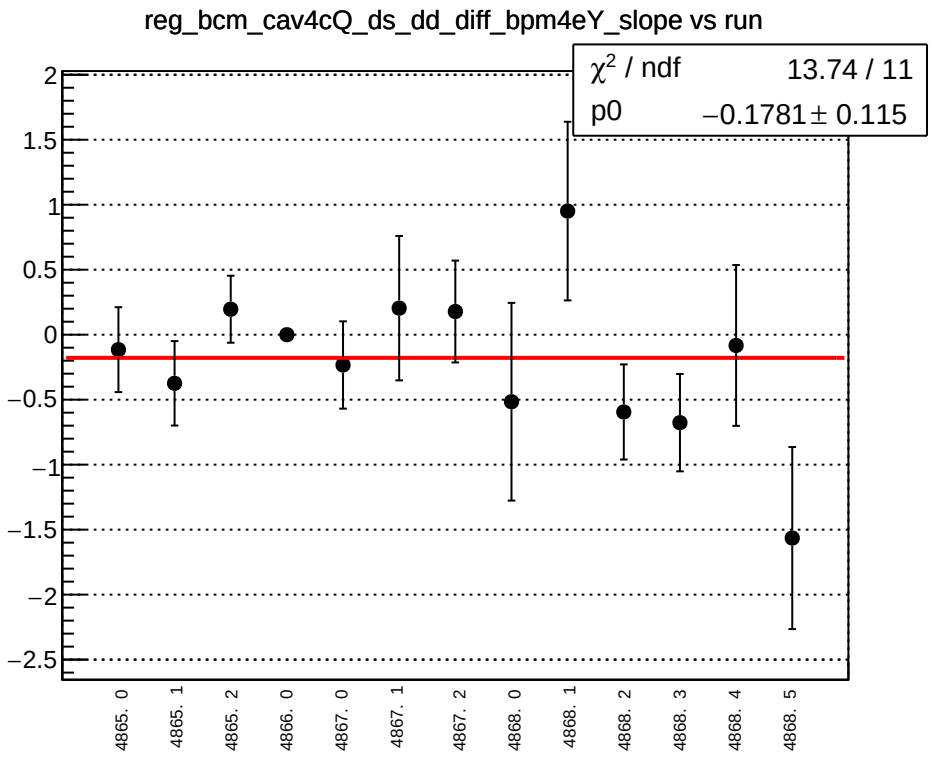
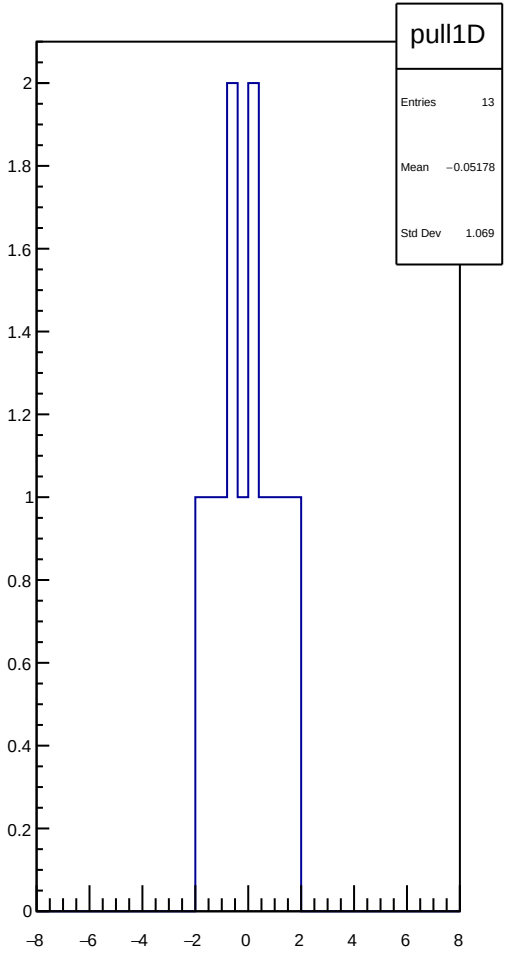
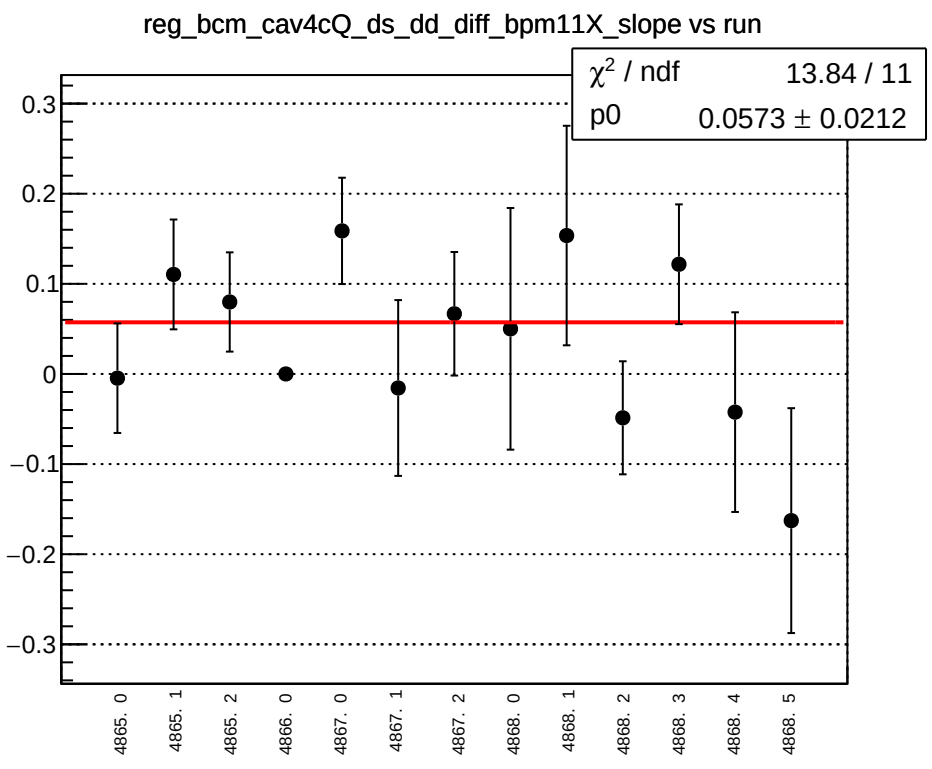
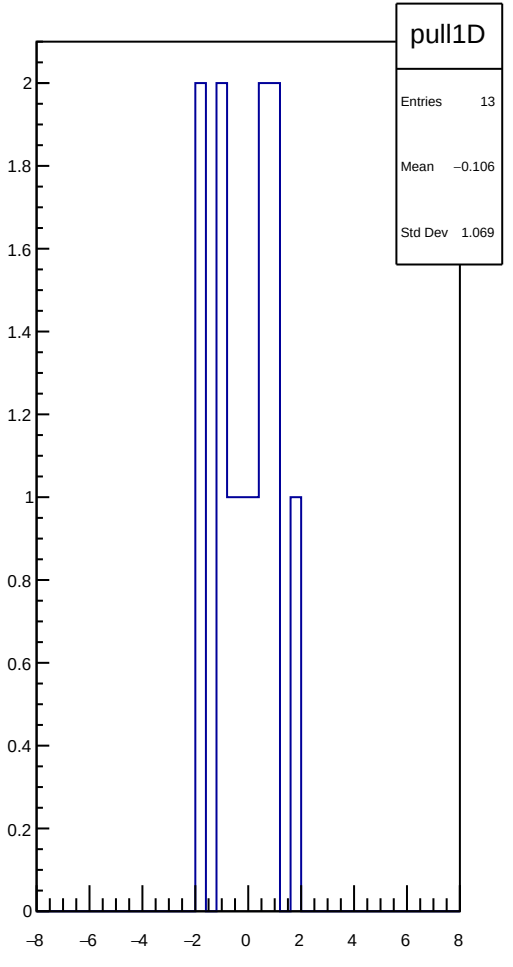
4868. 4
4868. 5

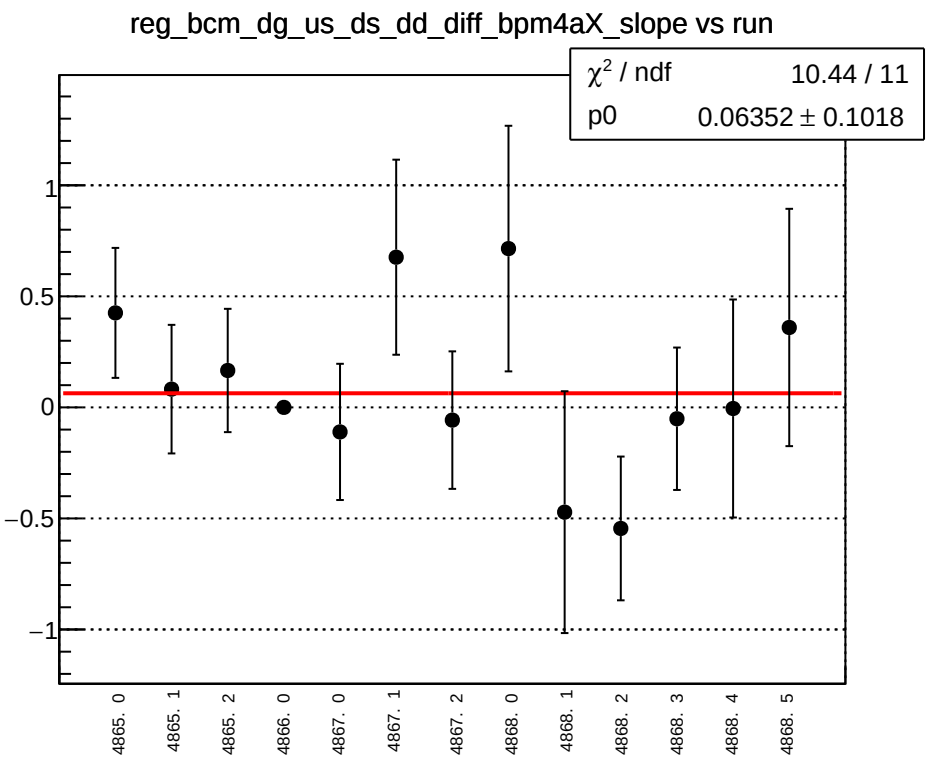

pull1D
Entries 13
Mean −0.07931
Std Dev 0.6863
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

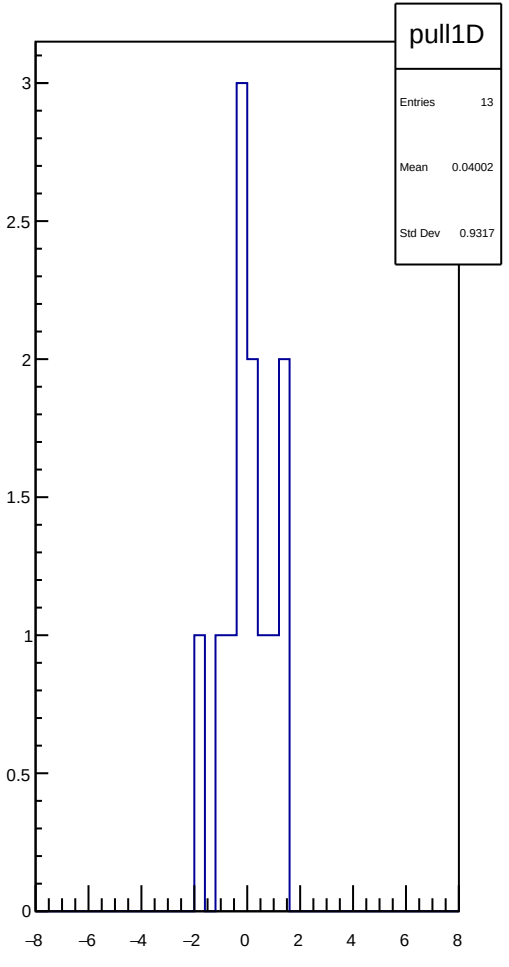

reg_bcm_cav4cQ_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.74 / 11
p0 −0.1781 ± 0.115
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.05178
Std Dev 1.069
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_bcm_cav4cQ_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 13.84 / 11
p0 0.0573 ± 0.0212
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.106
Std Dev 1.069
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


reg_bcm_dg_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 10.44 / 11
p0 0.06352 ± 0.1018
1
0.5
0
−0.5
−1
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.04002
Std Dev 0.9317
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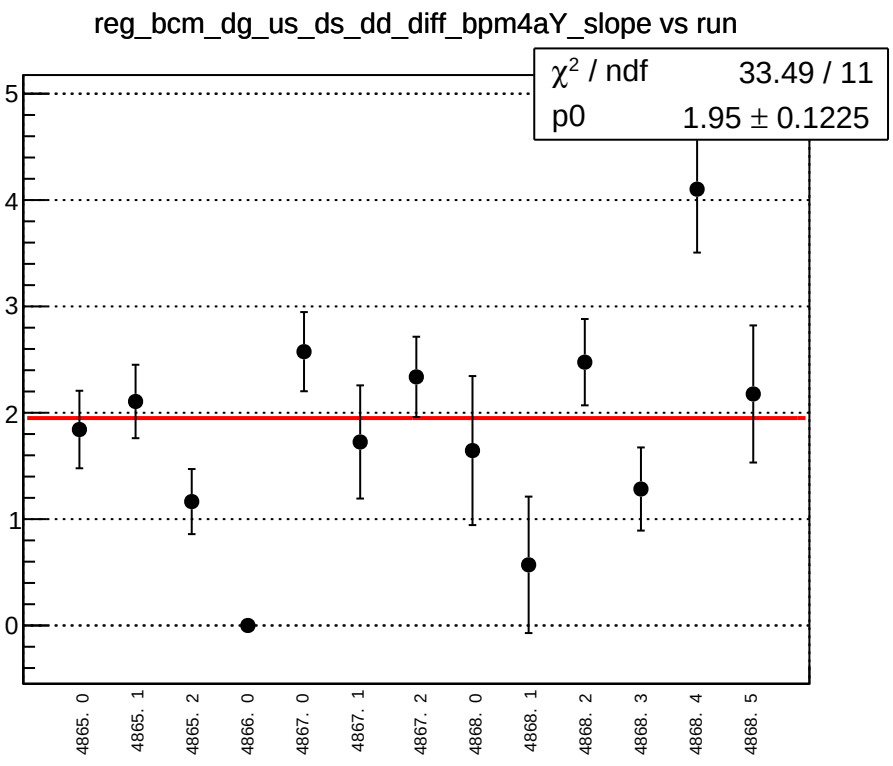
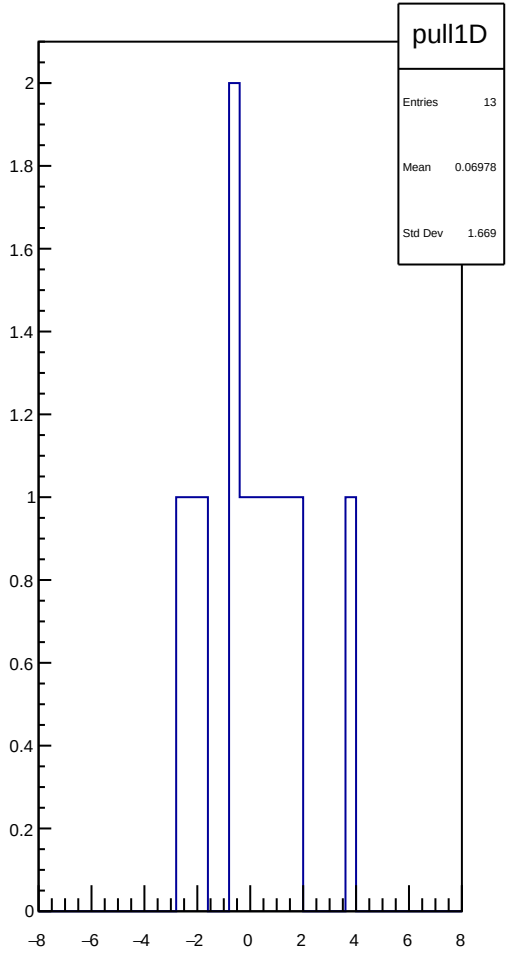
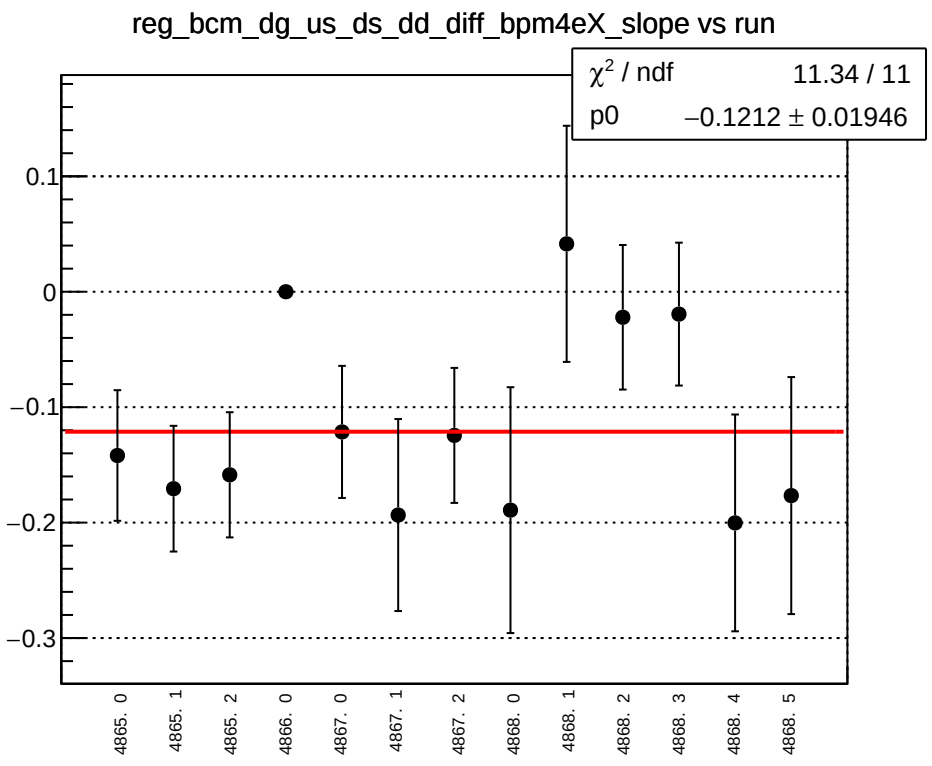
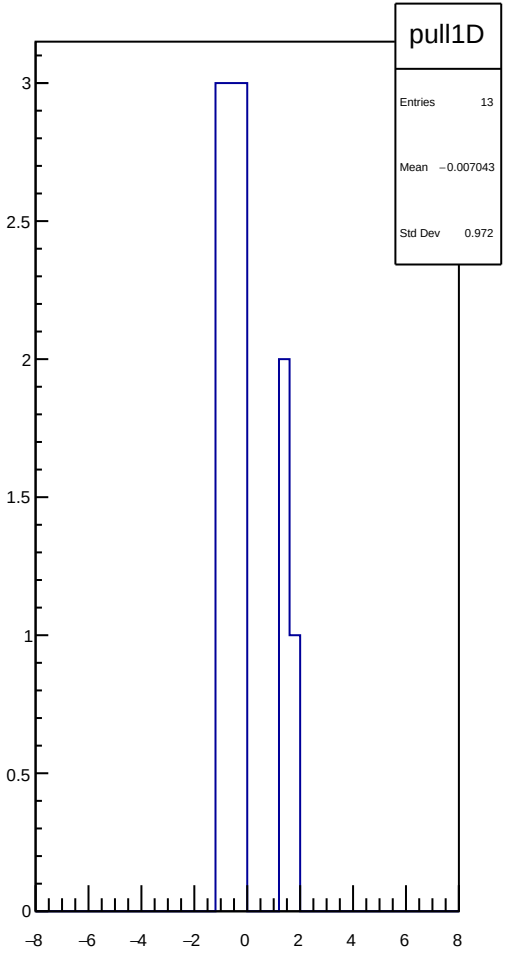
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_bcm_dg_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 33.49 / 11
p0 1.95 ± 0.1225
5
4
3
2
1
0
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.06978
Std Dev 1.669
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


reg_bcm_dg_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.34 / 11
p0 −0.1212 ± 0.01946
0.1
0
−0.1
−0.2
−0.3
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.007043
Std Dev 0.972
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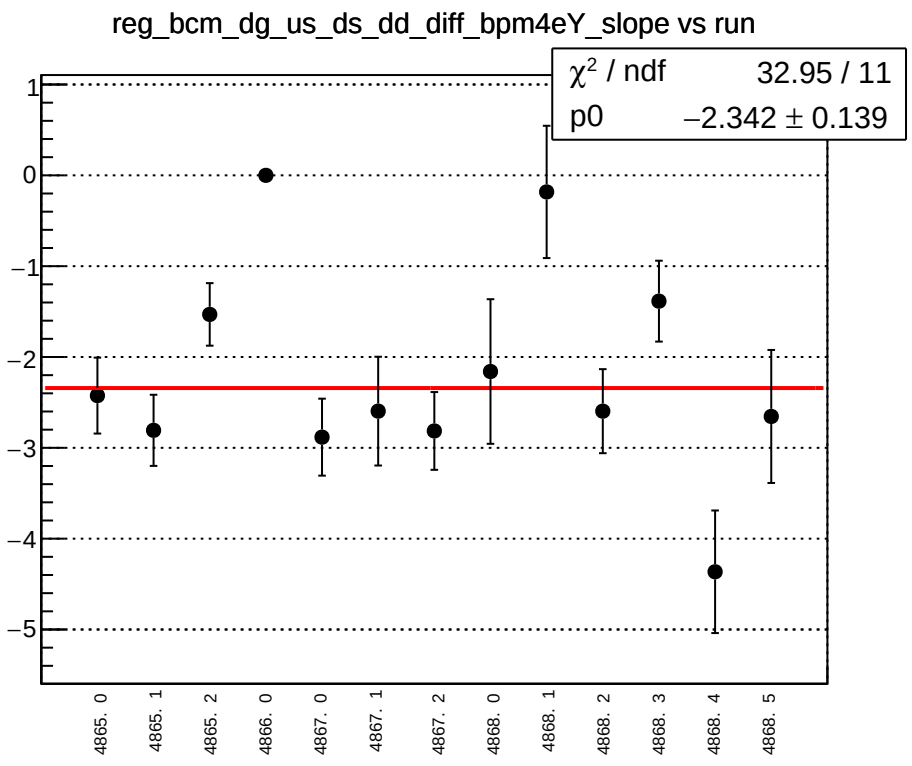
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_bcm_dg_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 32.95 / 11
p0 −2.342 ± 0.139
1
0
−1
−2
−3
−4
−5
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
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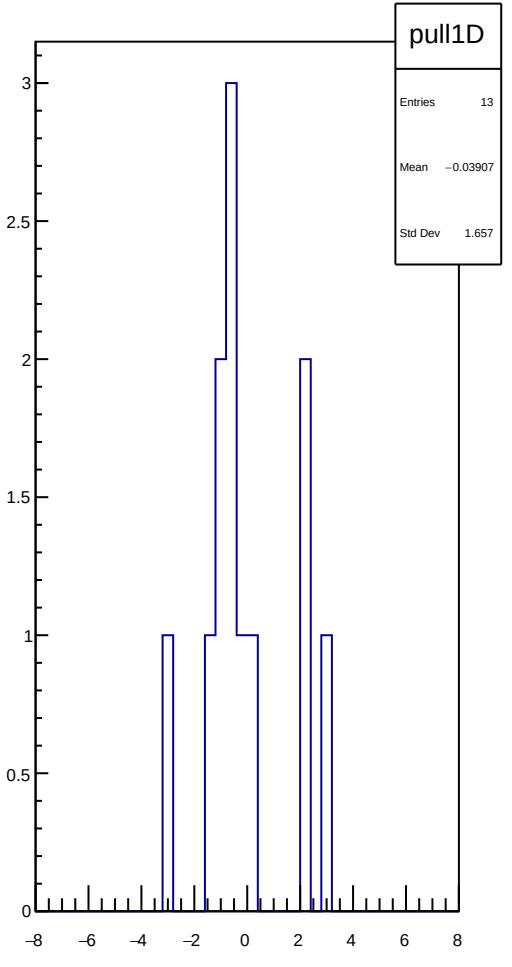
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.03907
Std Dev 1.657
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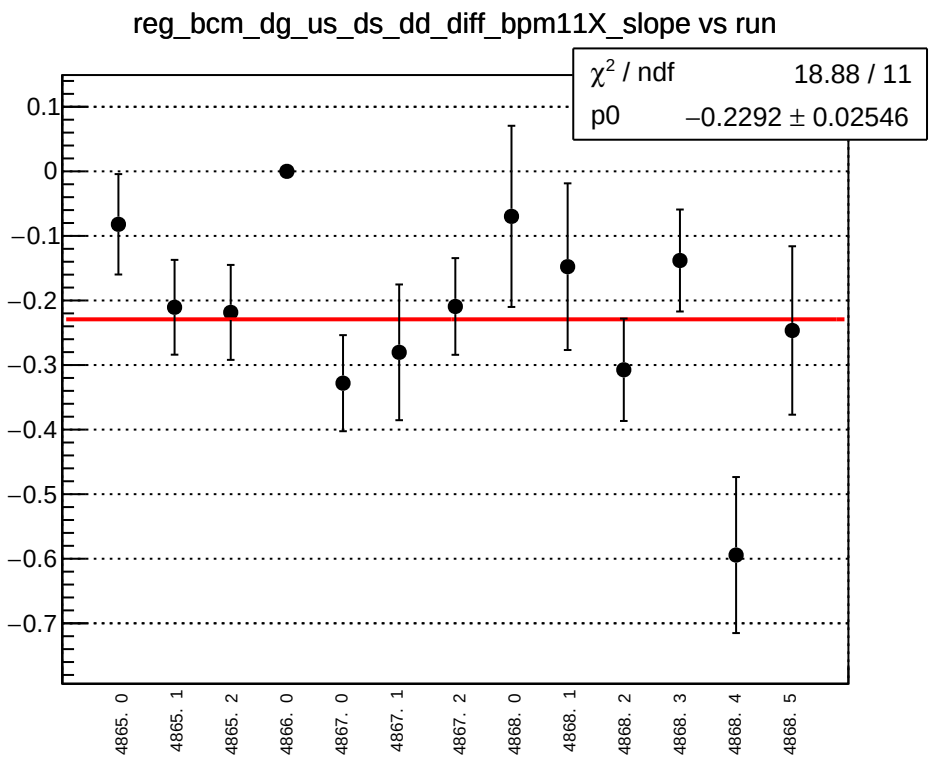
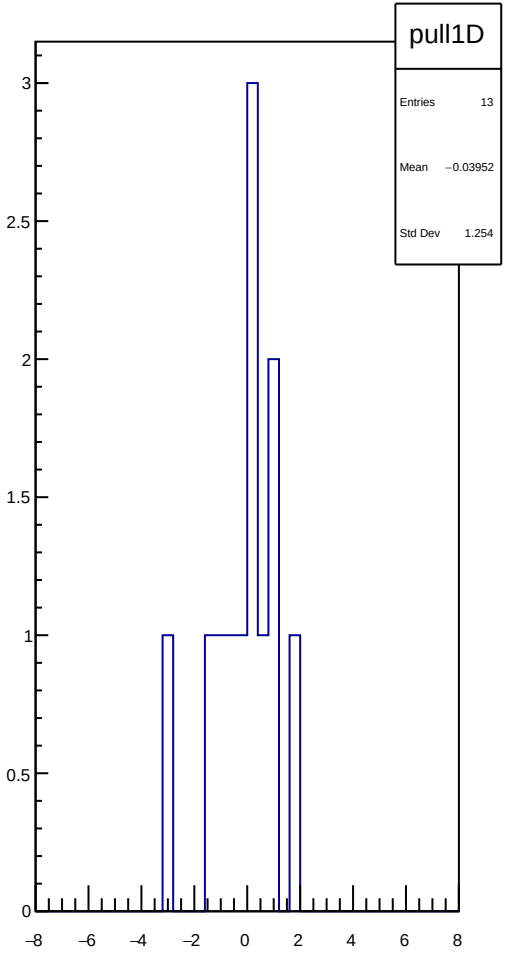
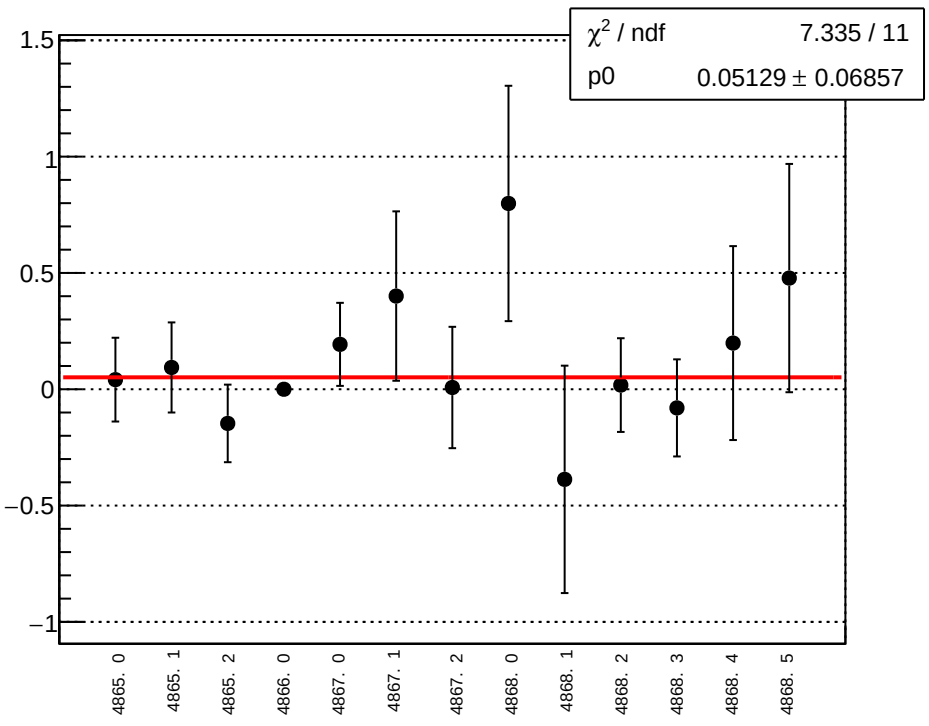
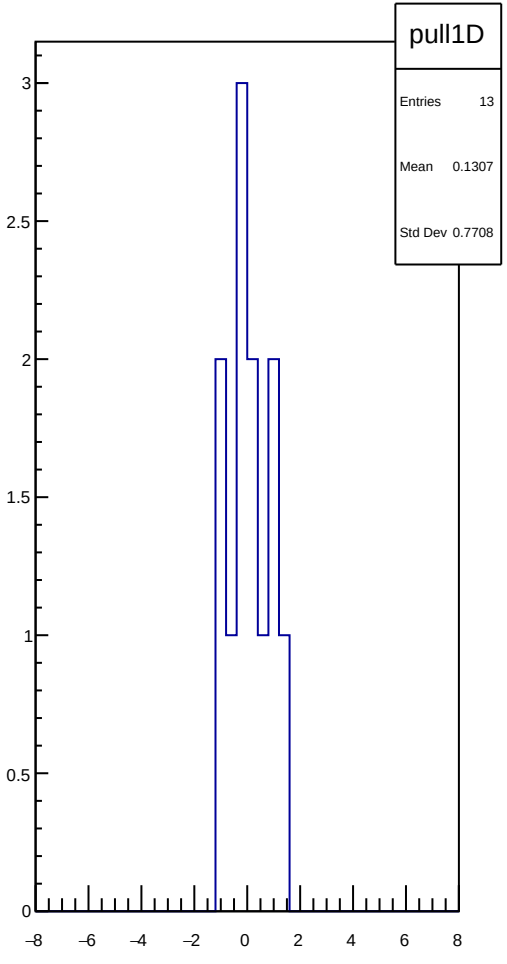
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_bcm_dg_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 18.88 / 11
p0 −0.2292 ± 0.02546
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.03952
Std Dev 1.254
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_bcm_dg_ds_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 7.335 / 11
p0 0.05129 ± 0.06857
1.5
1
0.5
0
−0.5
−1
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.1307
Std Dev 0.7708
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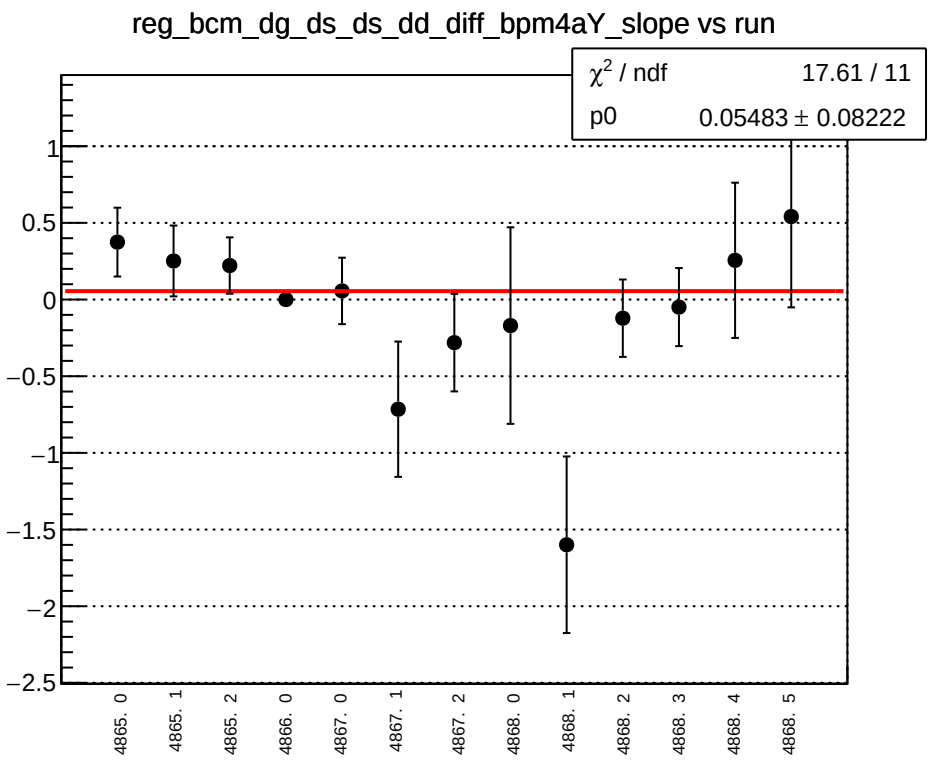
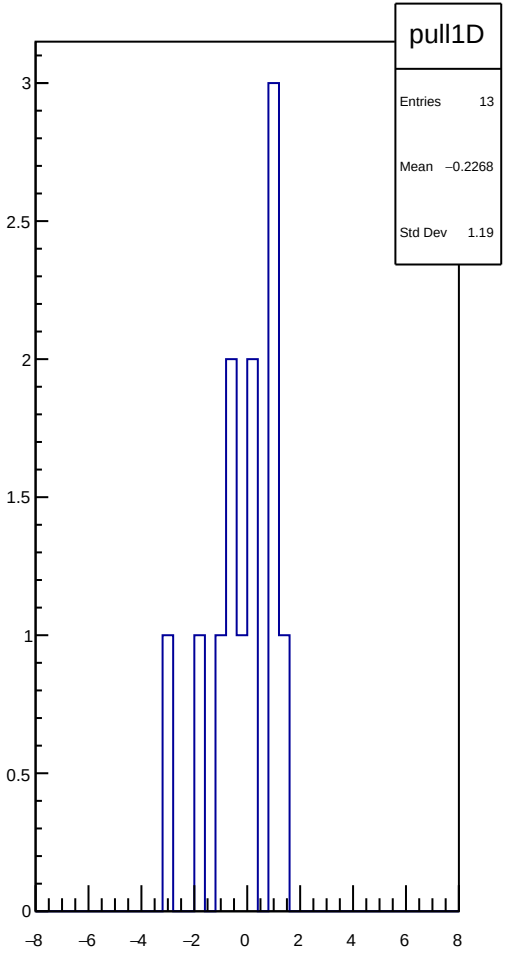
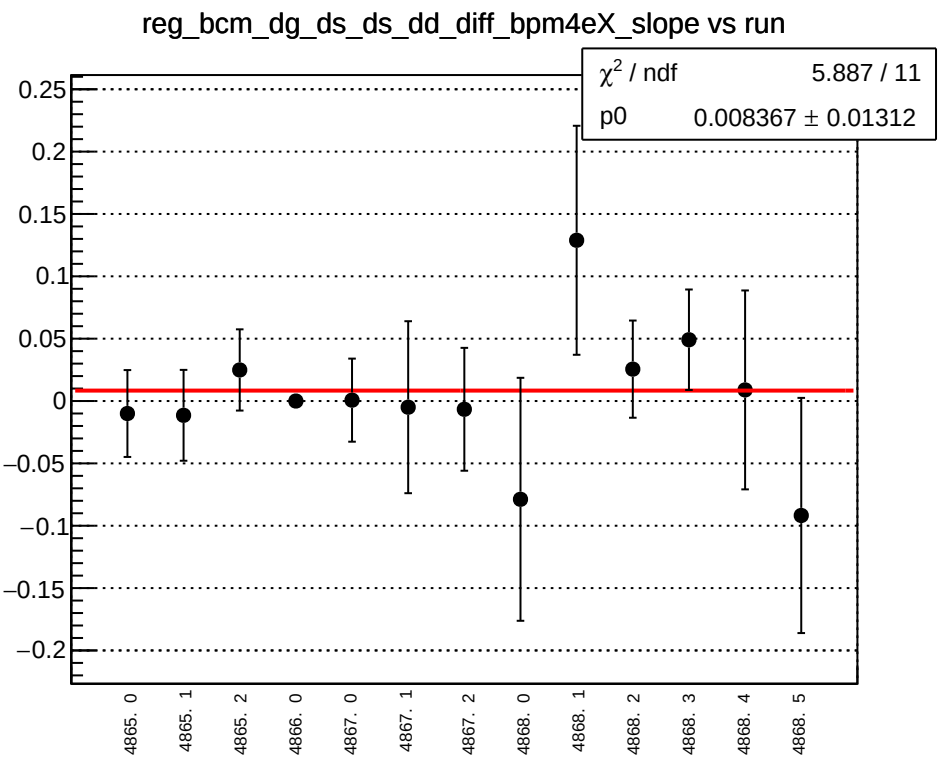
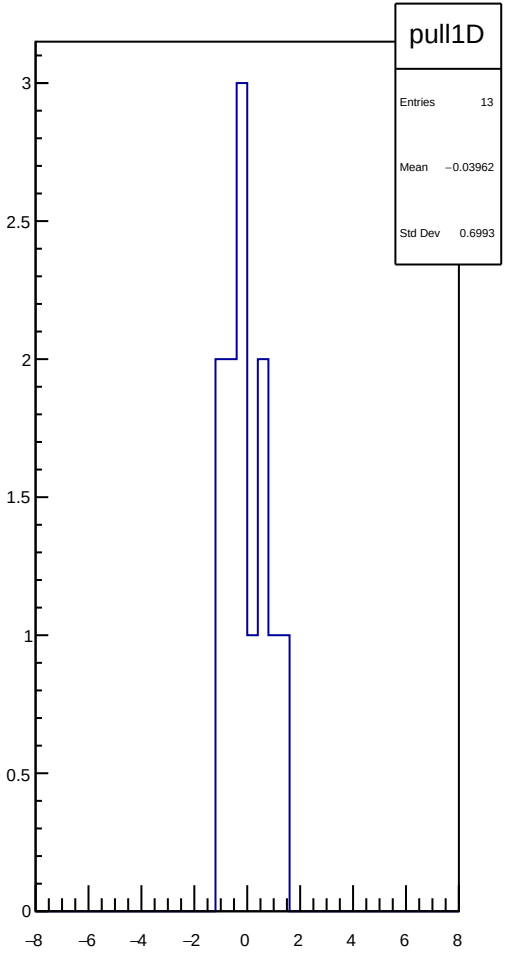
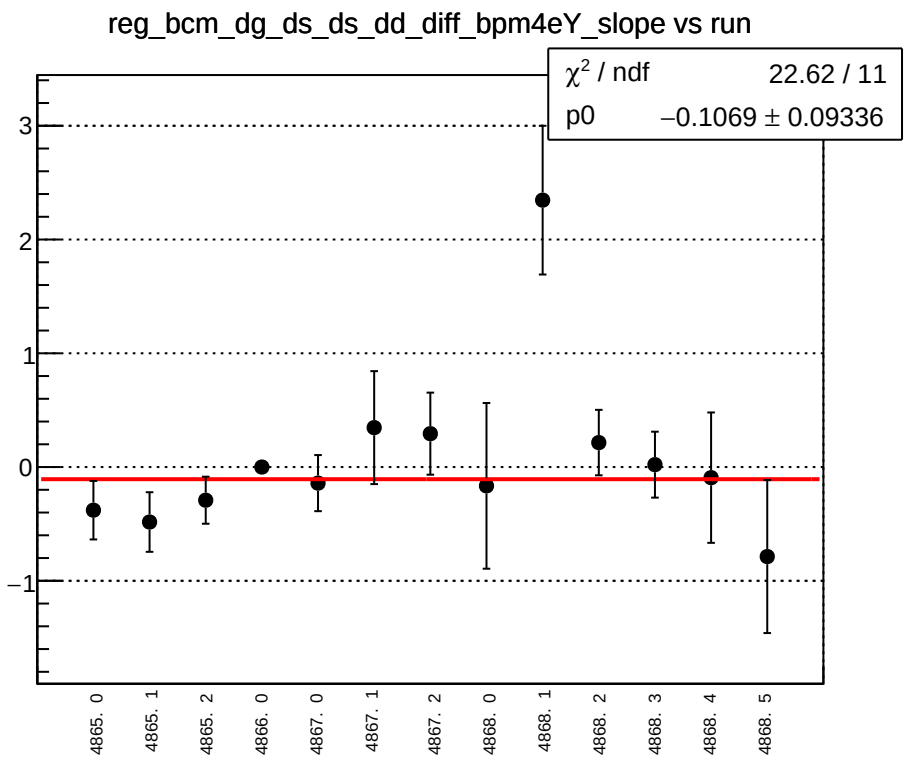
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

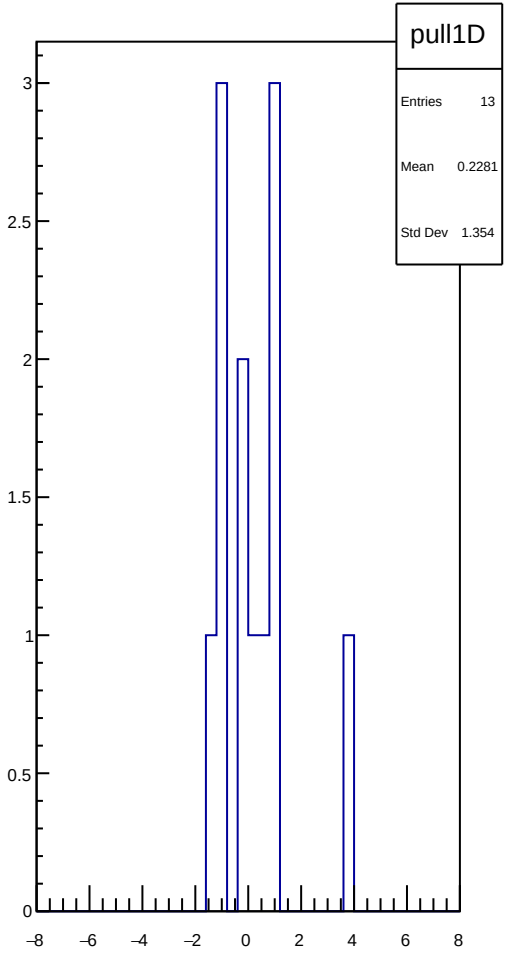

reg_bcm_dg_ds_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.61 / 11
p0 0.05483 ± 0.08222
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.2268
Std Dev 1.19
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_bcm_dg_ds_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.887 / 11
p0 0.008367 ± 0.01312
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.03962
Std Dev 0.6993
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_bcm_dg_ds_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.62 / 11
p0 −0.1069 ± 0.09336
3
2
1
0
−1
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean 0.2281
Std Dev 1.354
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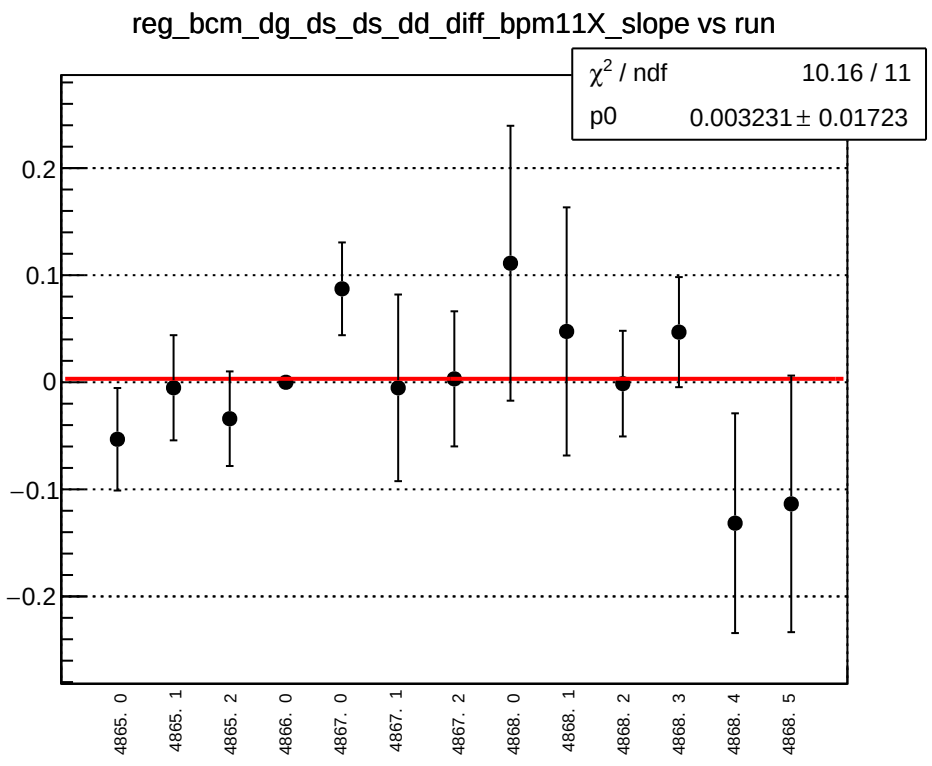
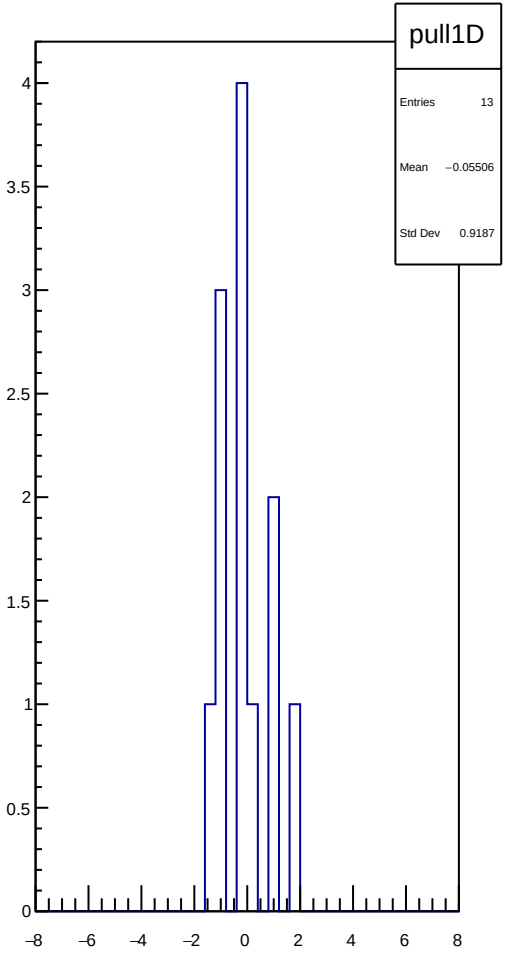
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


reg_bcm_dg_ds_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 10.16 / 11
p0 0.003231 ± 0.01723
0.2
0.1
0
−0.1
−0.2
4865. 0
4865. 1
4865. 2
4866. 0
4867. 0
4867. 1
4867. 2
4868. 0
4868. 1
4868. 2
4868. 3
4868. 4
4868. 5


pull1D
Entries 13
Mean −0.05506
Std Dev 0.9187
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8