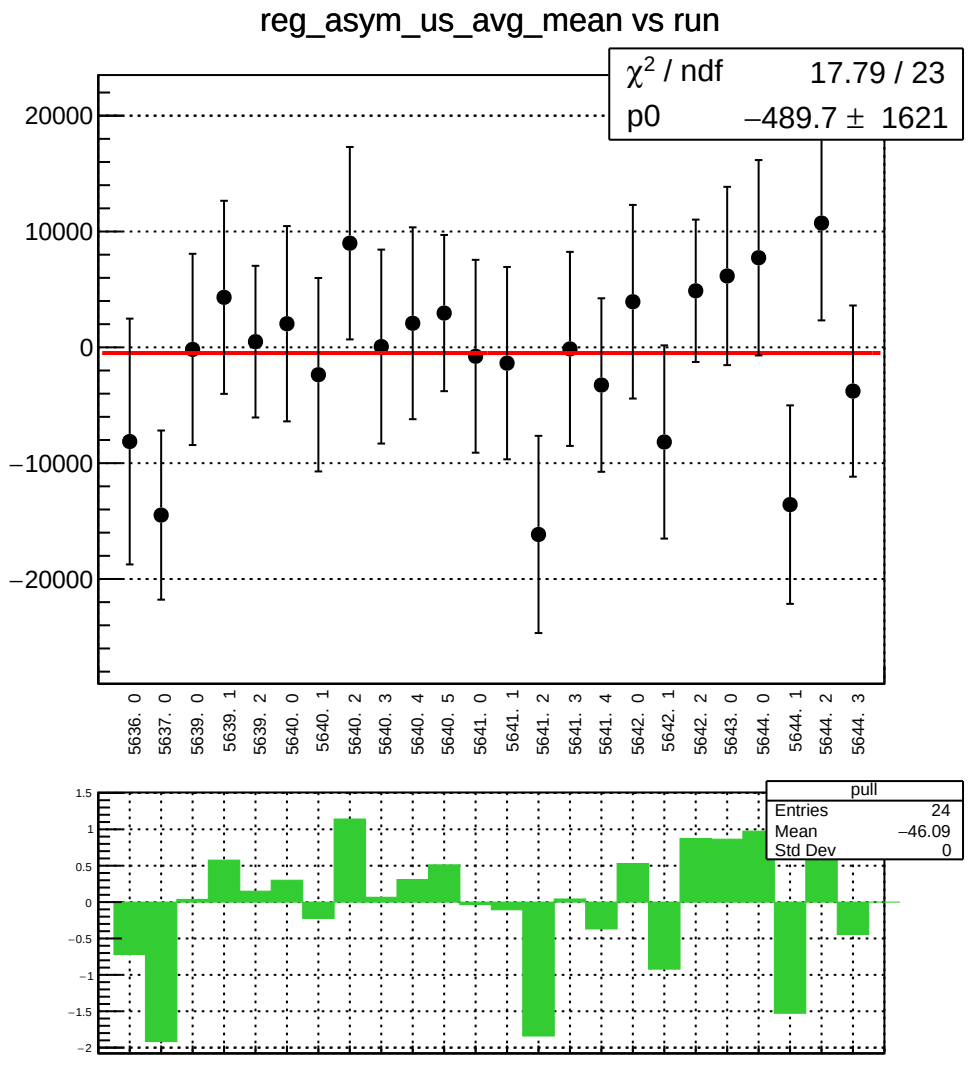
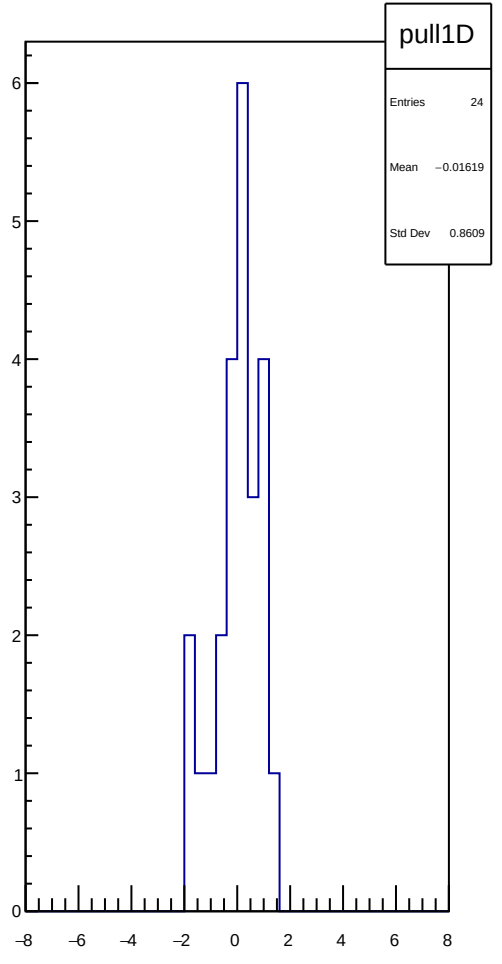

reg_asym_us_avg_mean vs run
χ² / ndf 17.79 / 23
p0 −489.7 ± 1621
20000
10000
0
−10000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −46.09
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.01619
Std Dev 0.8609
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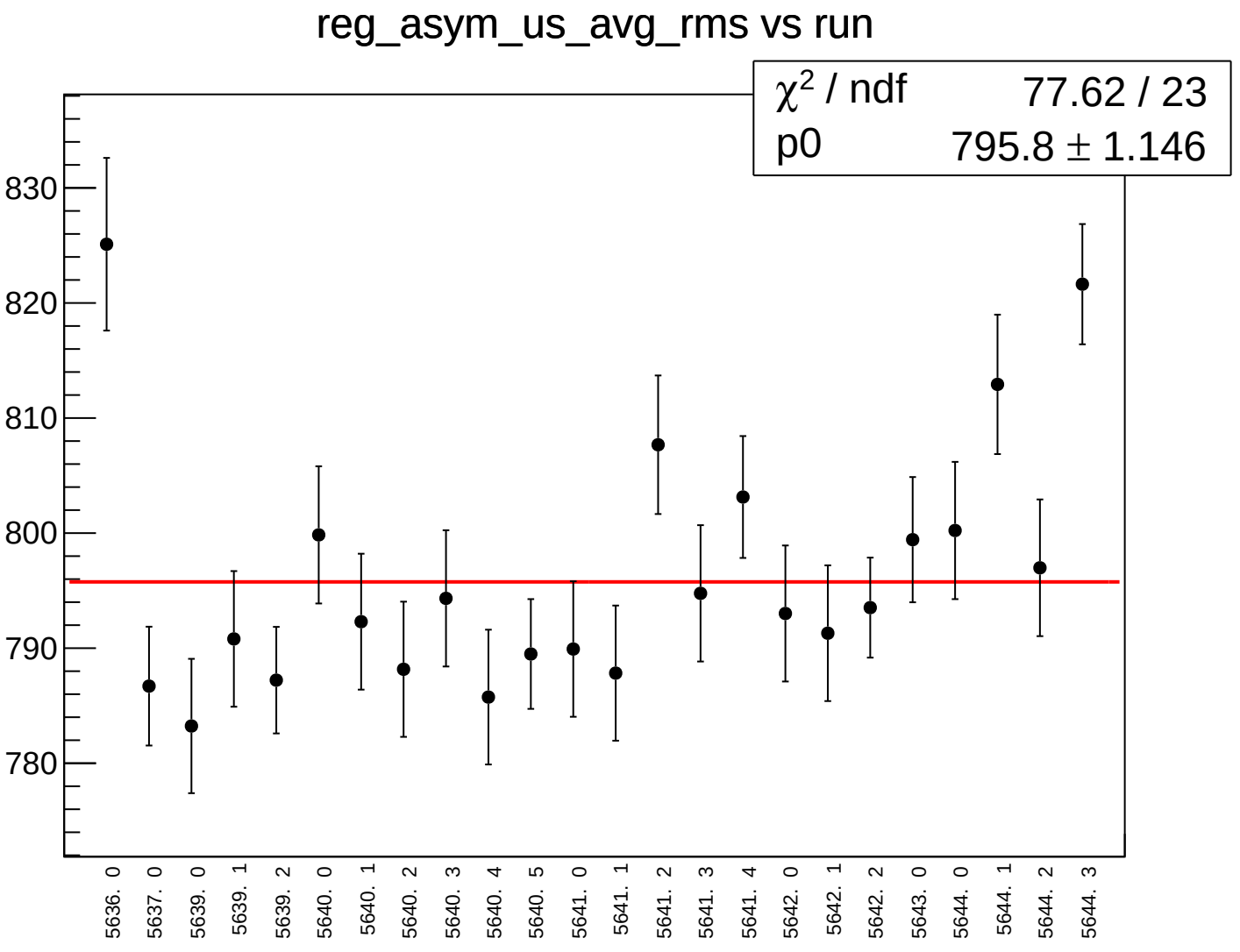
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_avg_rms vs run
χ^2 / ndf 77.62 / 23
p0 795.8 ± 1.146
830
820
810
800
790
780
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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5642. 0
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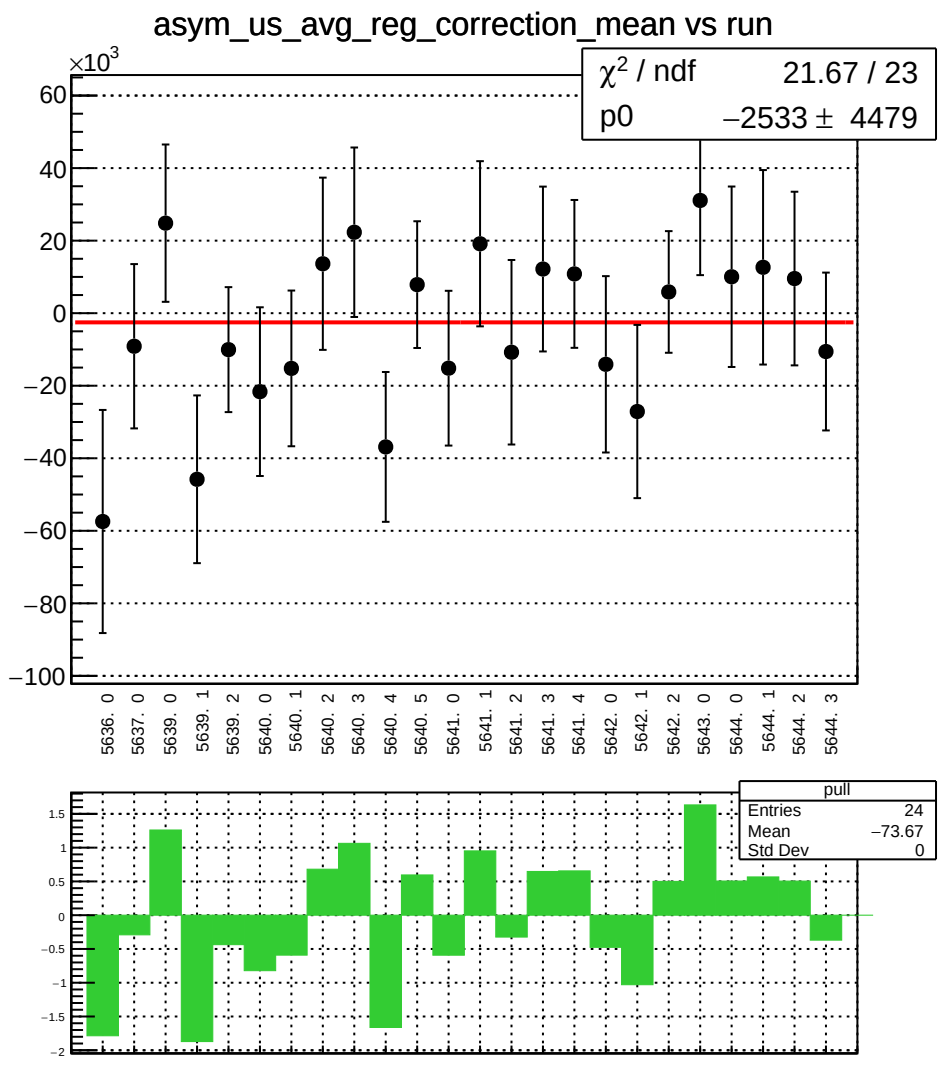
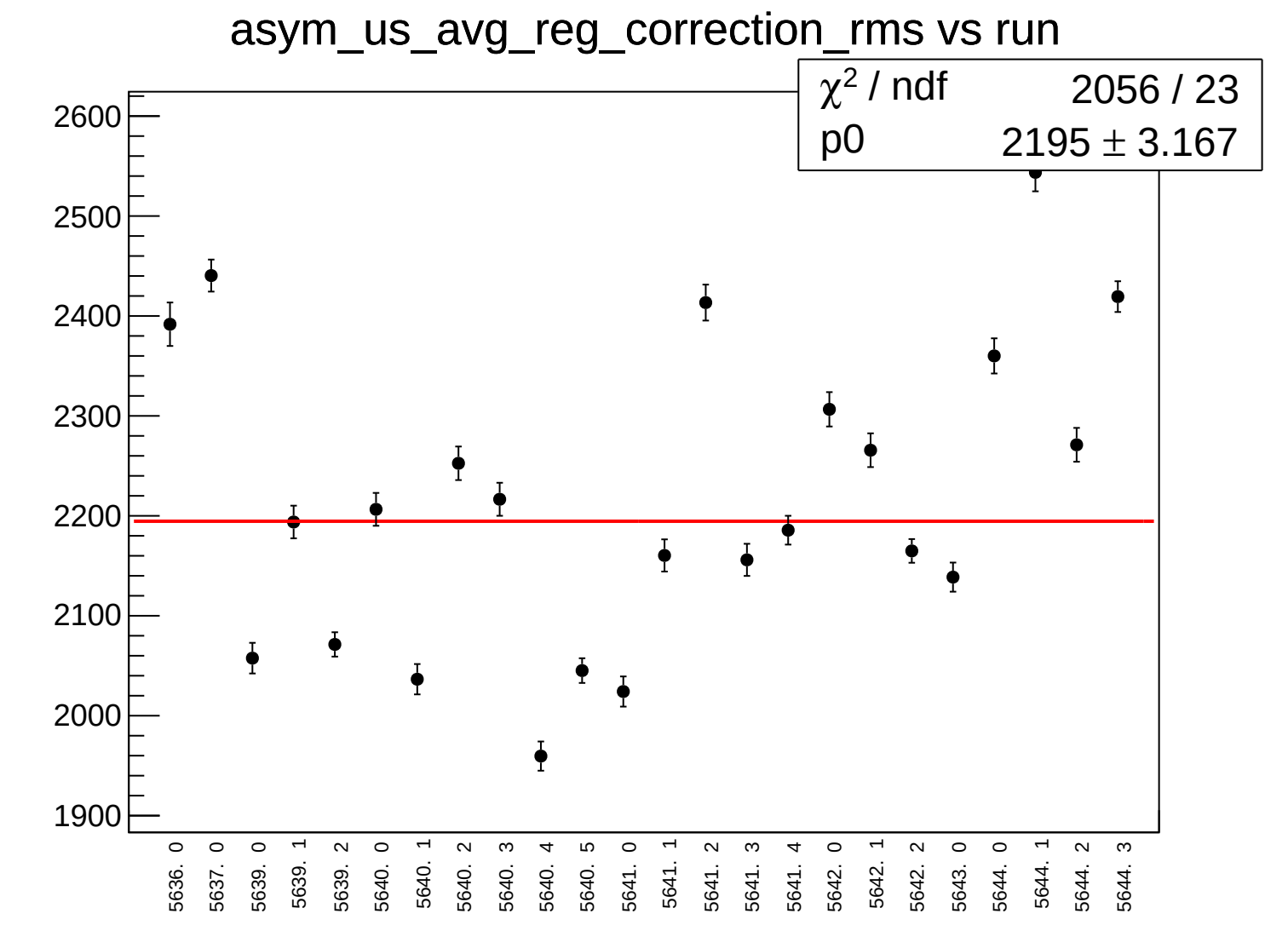
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_us_avg_reg_correction_mean vs run
×10^3
χ² / ndf 21.67 / 23
p0 −2533 ± 4479
60
40
20
0
−20
−40
−60
−80
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −73.67
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.02843
Std Dev 0.9497
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_reg_correction_rms vs run
χ² / ndf 2056 / 23
p0 2195 ± 3.167
2600
2500
2400
2300
2200
2100
2000
1900
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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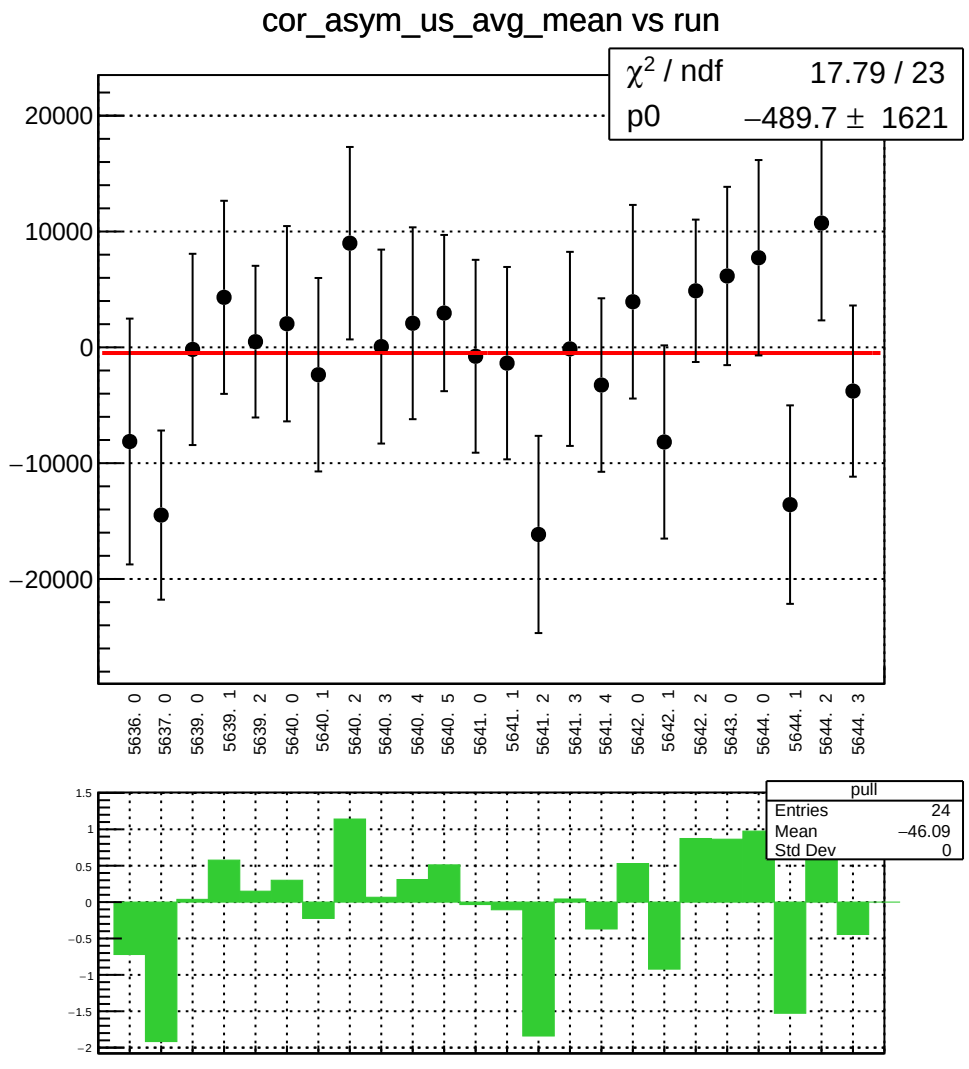
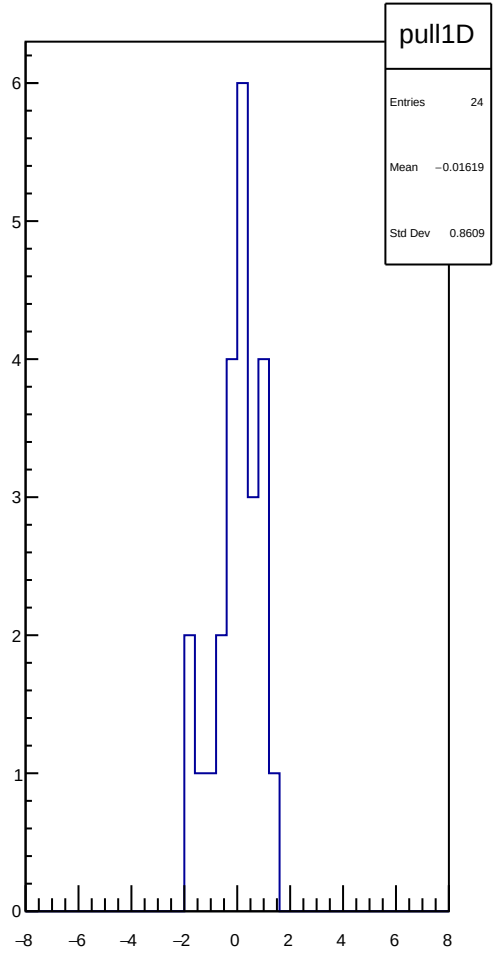
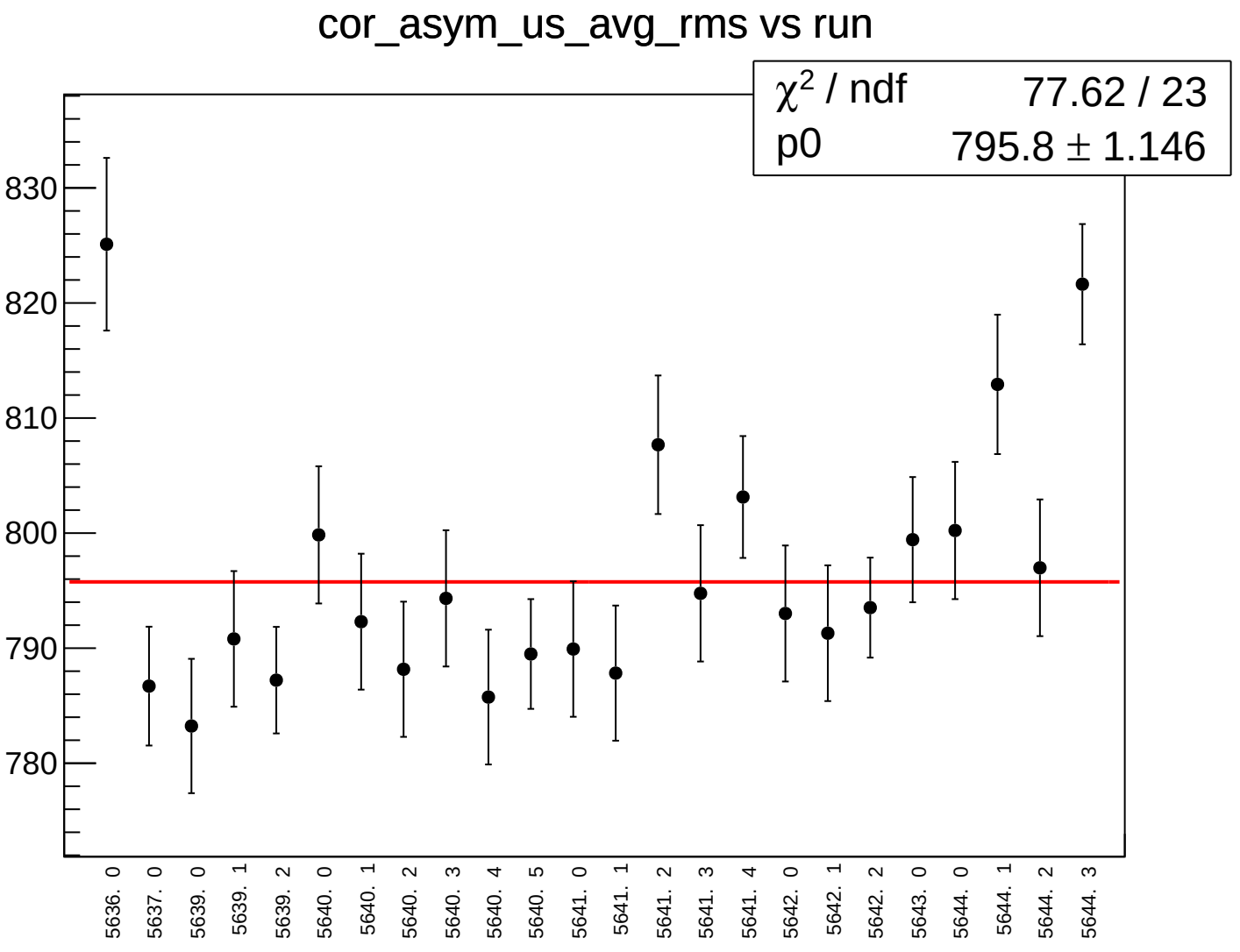
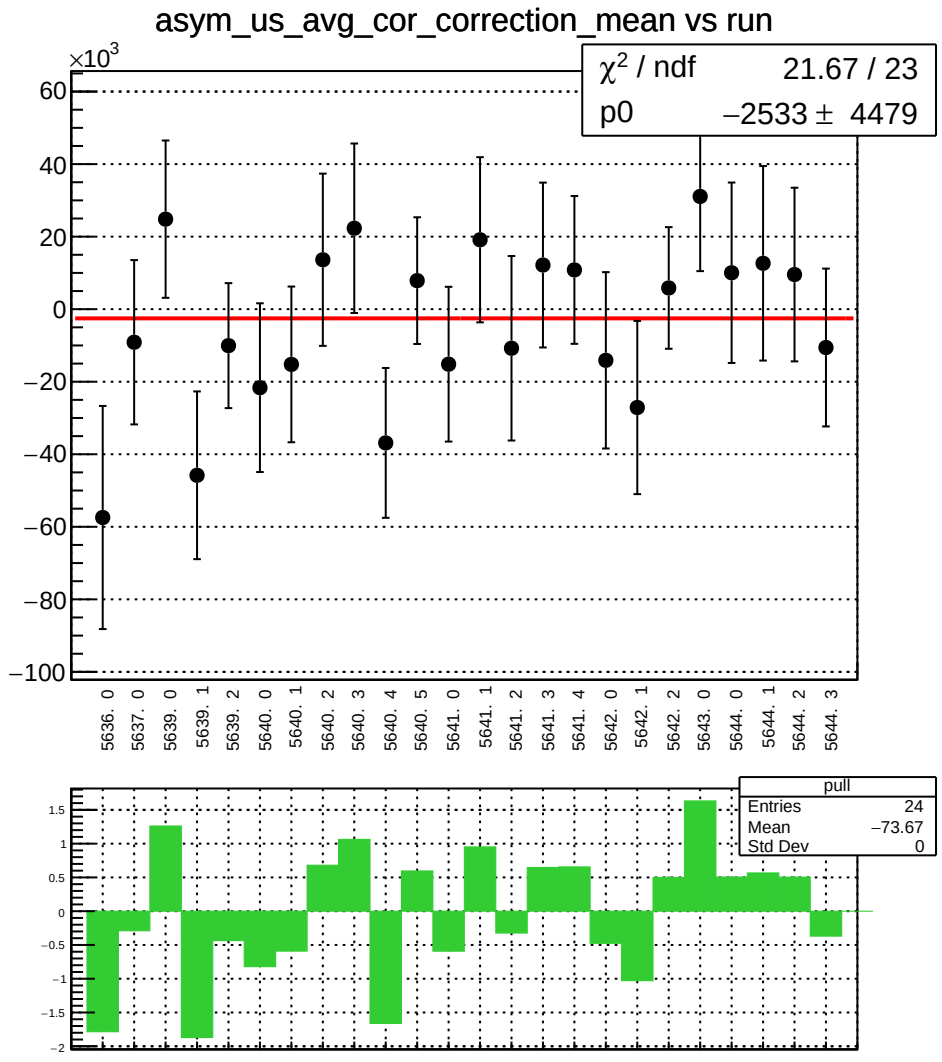
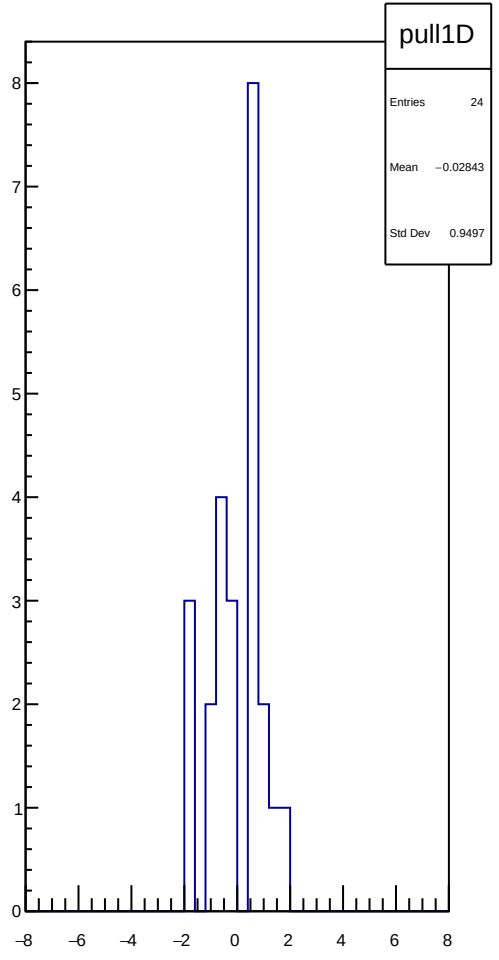
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

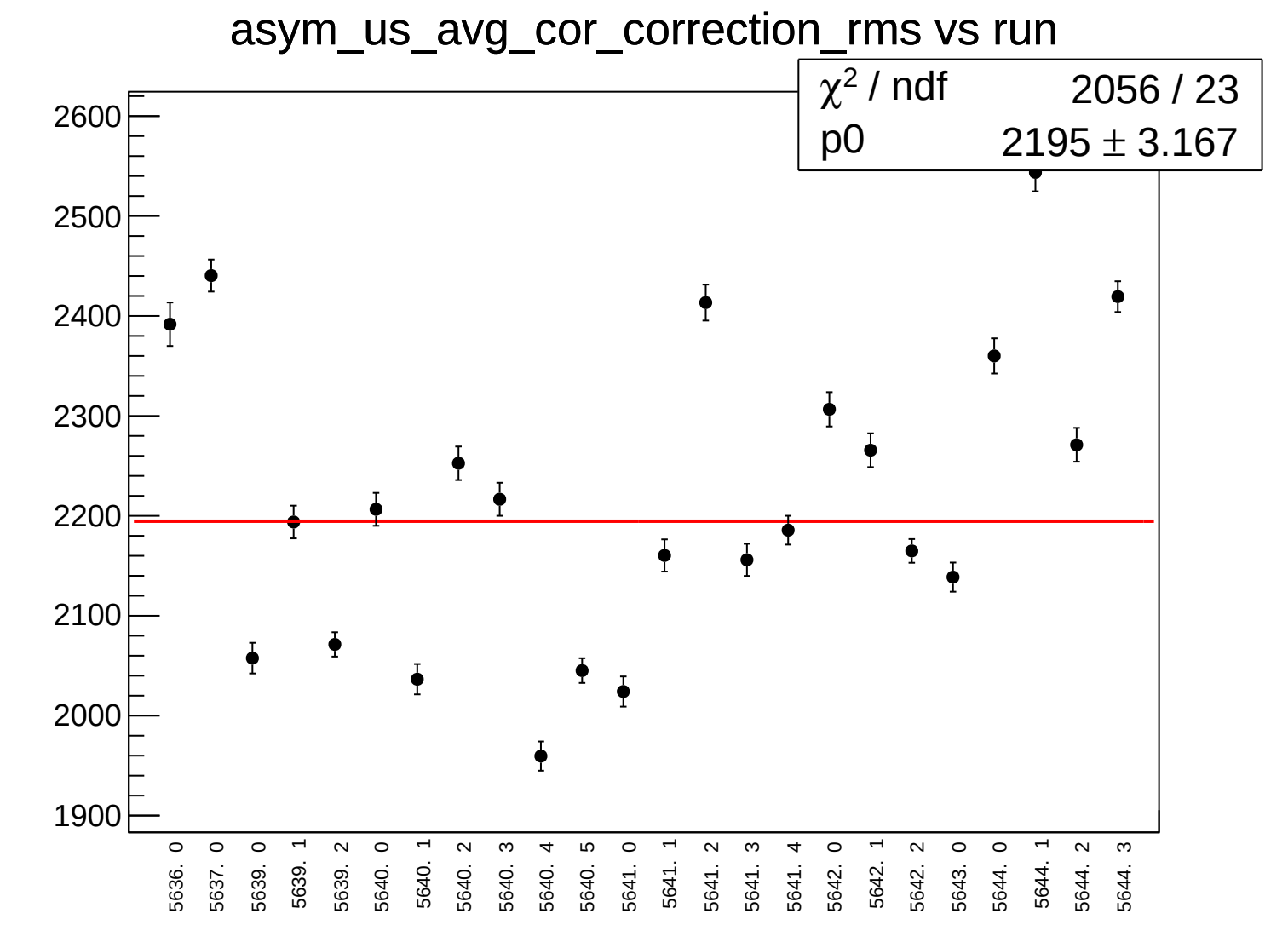

cor_asym_us_avg_mean vs run
χ² / ndf 17.79 / 23
p0 −489.7 ± 1621
20000
10000
0
−10000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −46.09
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.01619
Std Dev 0.8609
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_avg_rms vs run
χ^2 / ndf 77.62 / 23
p0 795.8 ± 1.146
830
820
810
800
790
780
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_us_avg_cor_correction_mean vs run
×10^3
χ² / ndf 21.67 / 23
p0 −2533 ± 4479
60
40
20
0
−20
−40
−60
−80
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −73.67
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.02843
Std Dev 0.9497
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_cor_correction_rms vs run
χ² / ndf 2056 / 23
p0 2195 ± 3.167
2600
2500
2400
2300
2200
2100
2000
1900
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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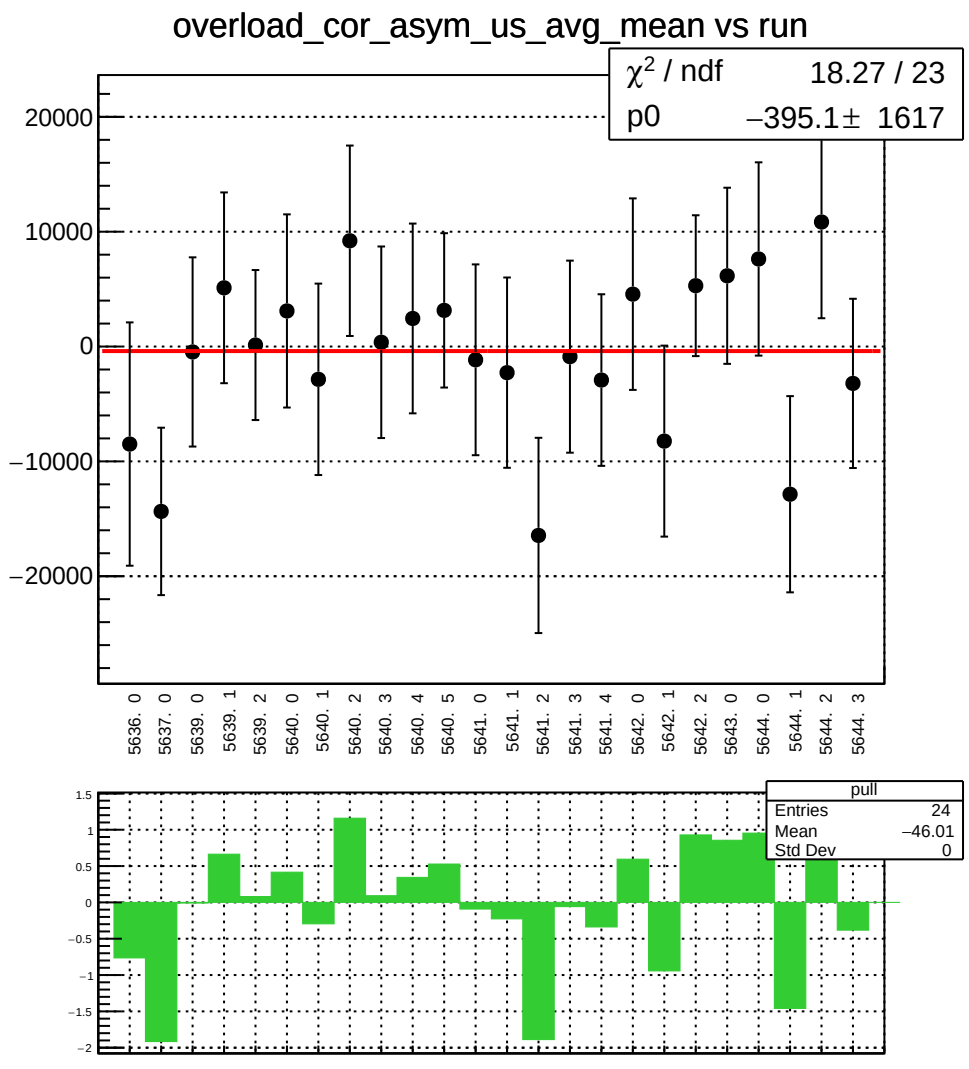
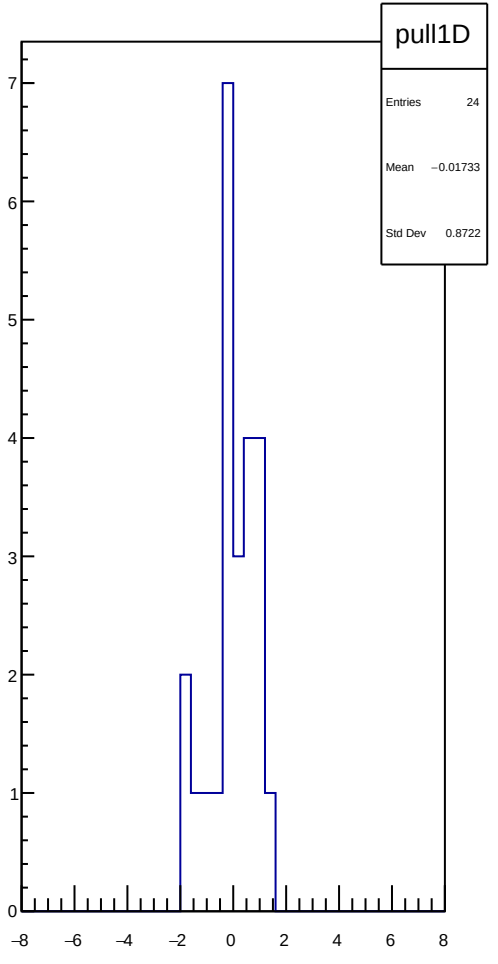
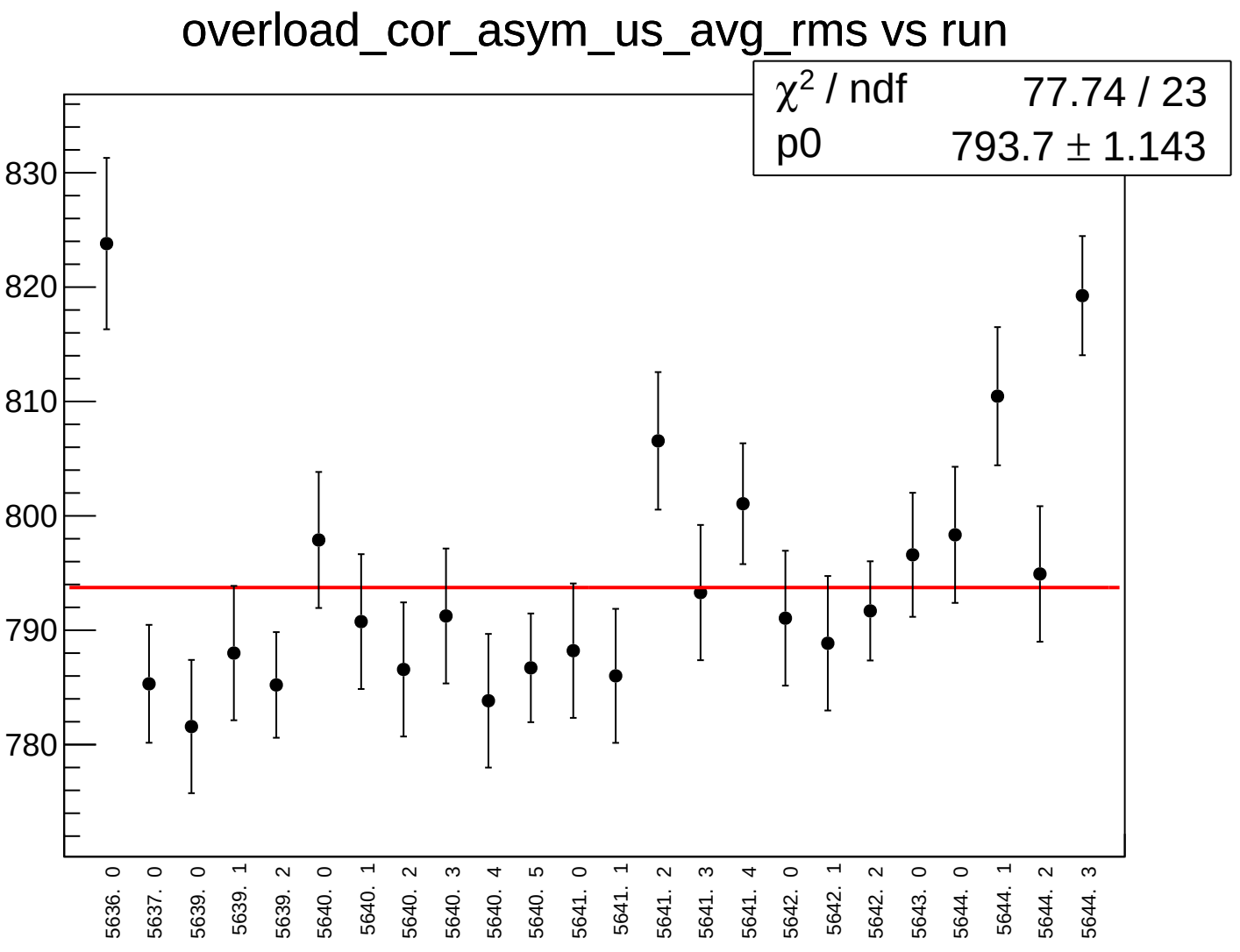
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


overload_cor_asym_us_avg_mean vs run
χ² / ndf 18.27 / 23
p0 −395.1± 1617
20000
10000
0
−10000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −46.01
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.01733
Std Dev 0.8722
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


overload_cor_asym_us_avg_rms vs run
χ^2 / ndf 77.74 / 23
p0 793.7 ± 1.143
830
820
810
800
790
780
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
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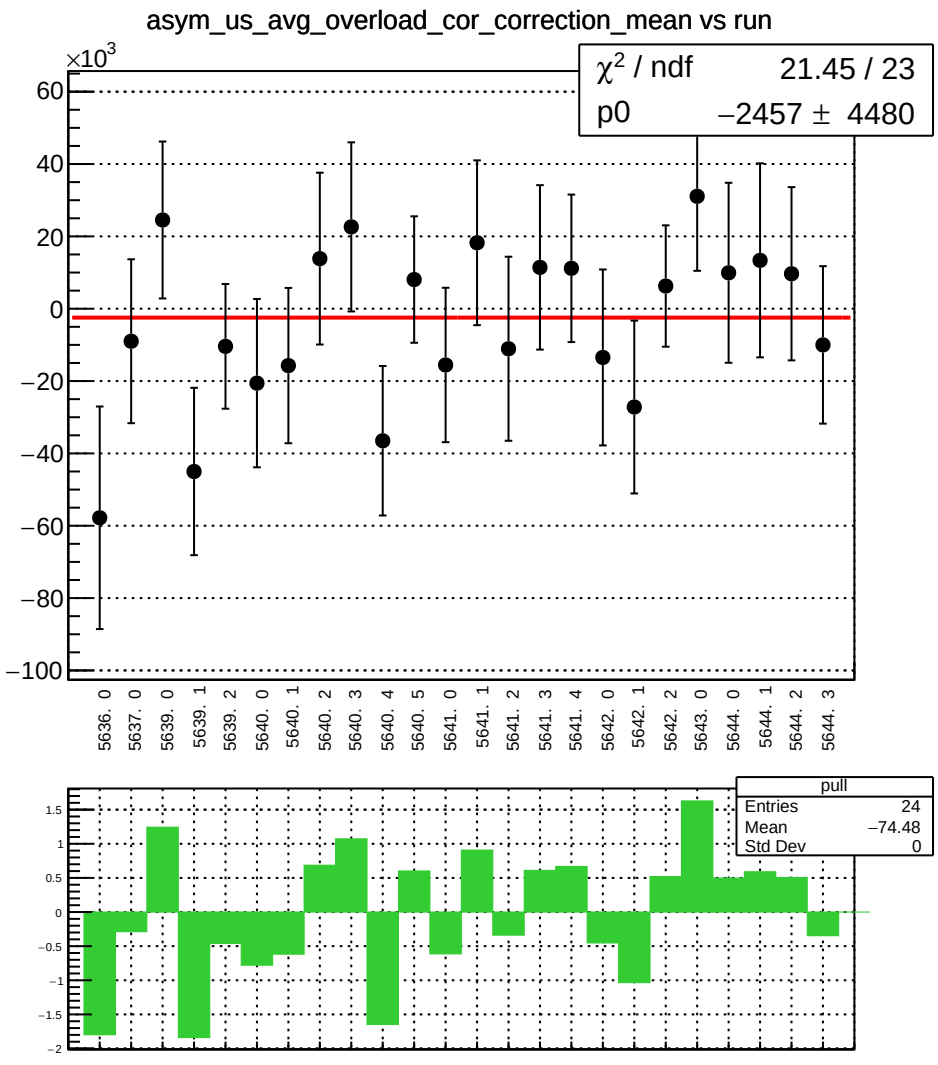
5644. 2
5644. 3


asym_us_avg_overload_cor_correction_mean vs run
×10^3
χ² / ndf 21.45 / 23
p0 −2457 ± 4480
60
40
20
0
−20
−40
−60
−80
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
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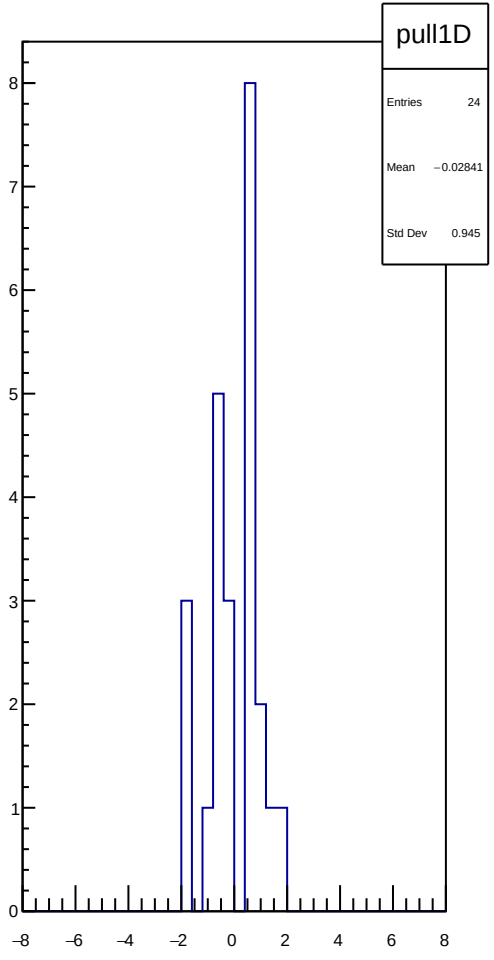
pull
Entries 24
Mean −74.48
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.02841
Std Dev 0.945
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7
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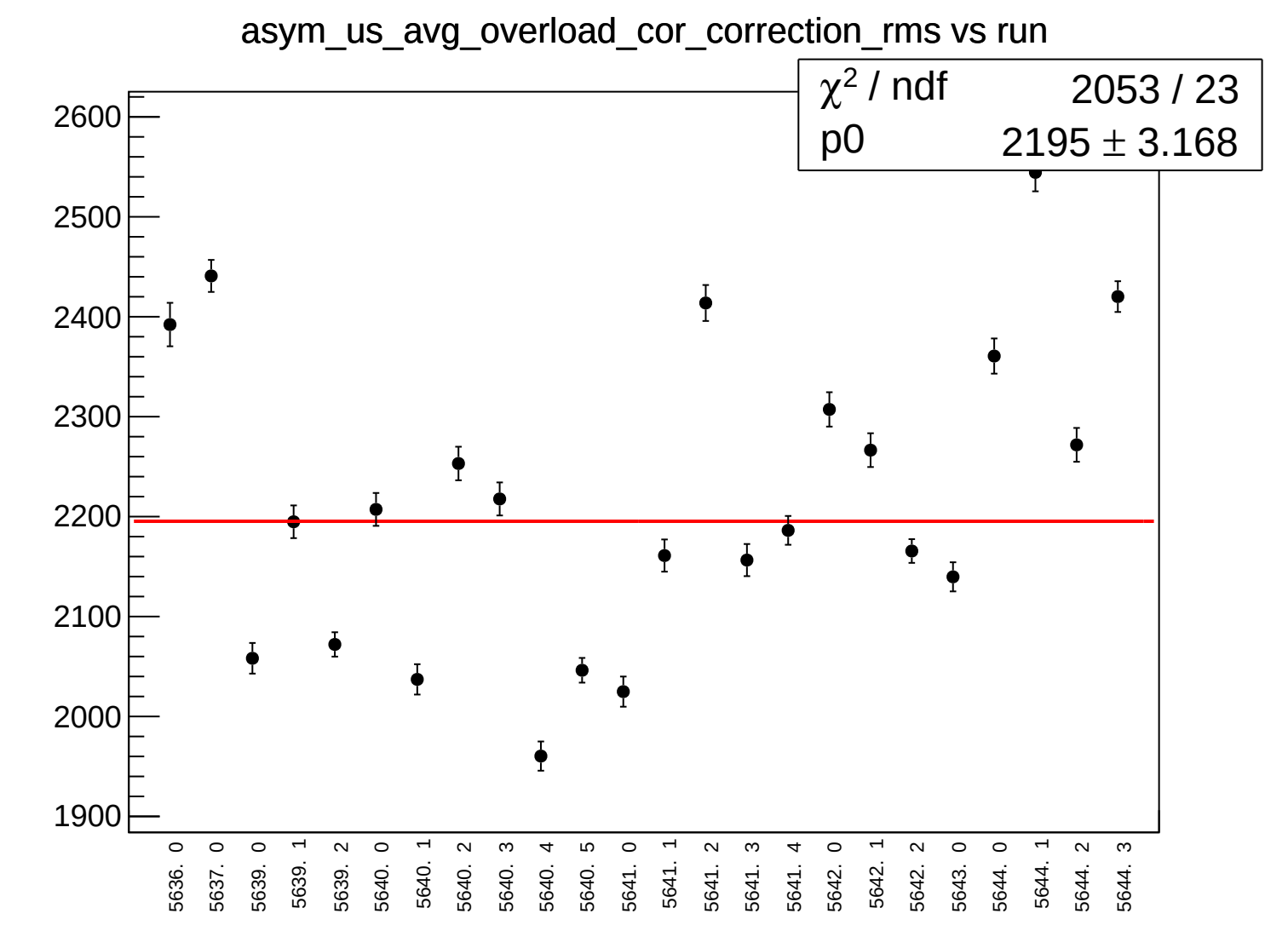
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 2053 / 23
p0 2195 ± 3.168
2600
2500
2400
2300
2200
2100
2000
1900
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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5642. 2
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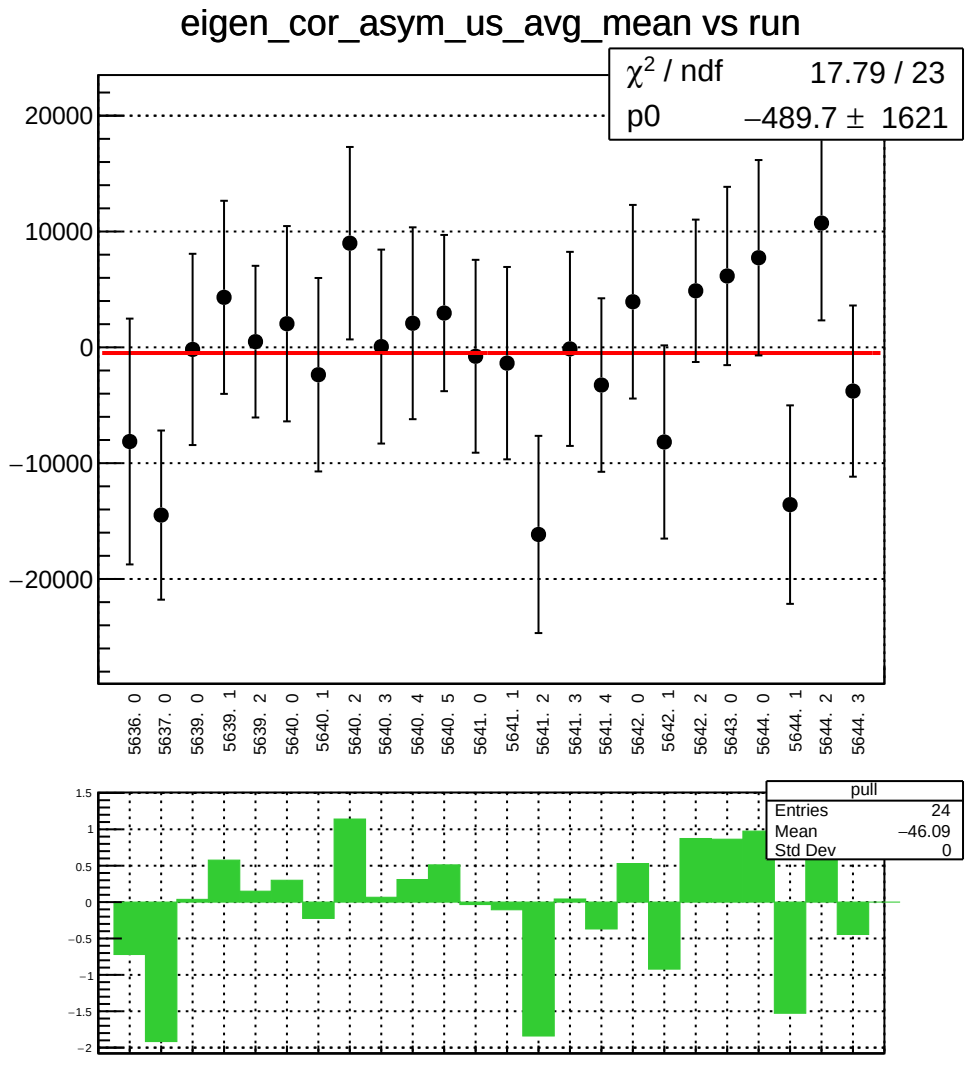
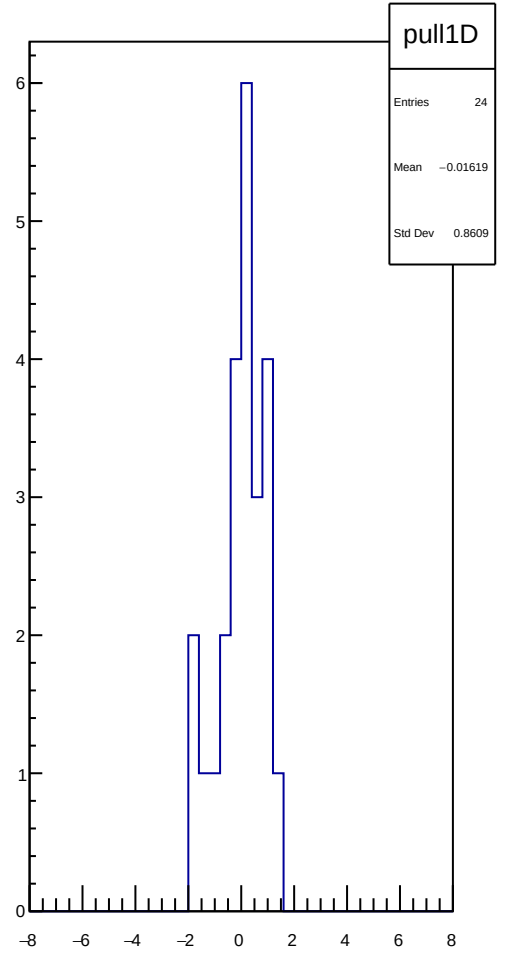
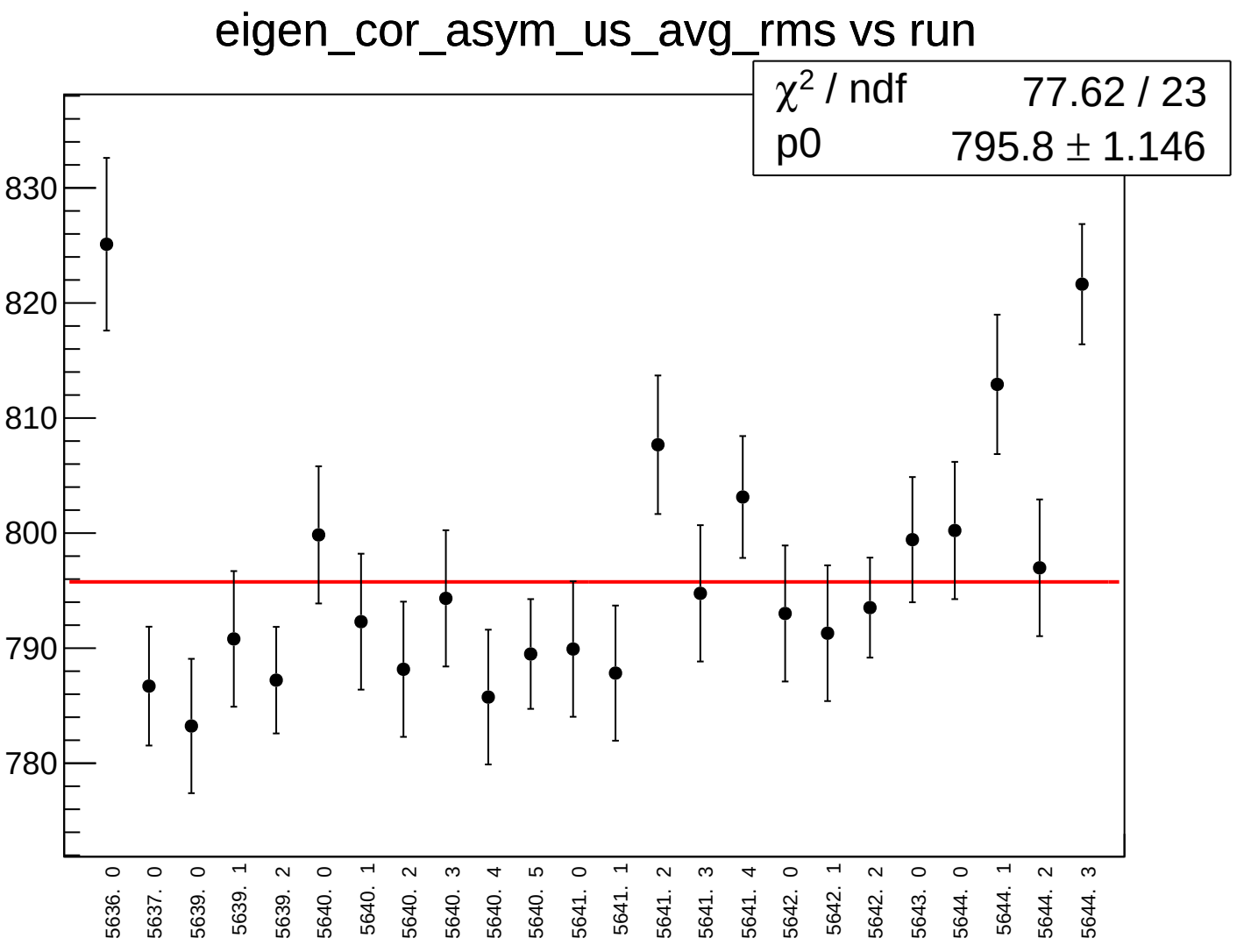
5644. 0
5644. 1
5644. 2
5644. 3


eigen_cor_asym_us_avg_mean vs run
χ² / ndf 17.79 / 23
p0 −489.7 ± 1621
20000
10000
0
−10000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −46.09
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.01619
Std Dev 0.8609
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_avg_rms vs run
χ^2 / ndf 77.62 / 23
p0 795.8 ± 1.146
830
820
810
800
790
780
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5642. 1
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5644. 0
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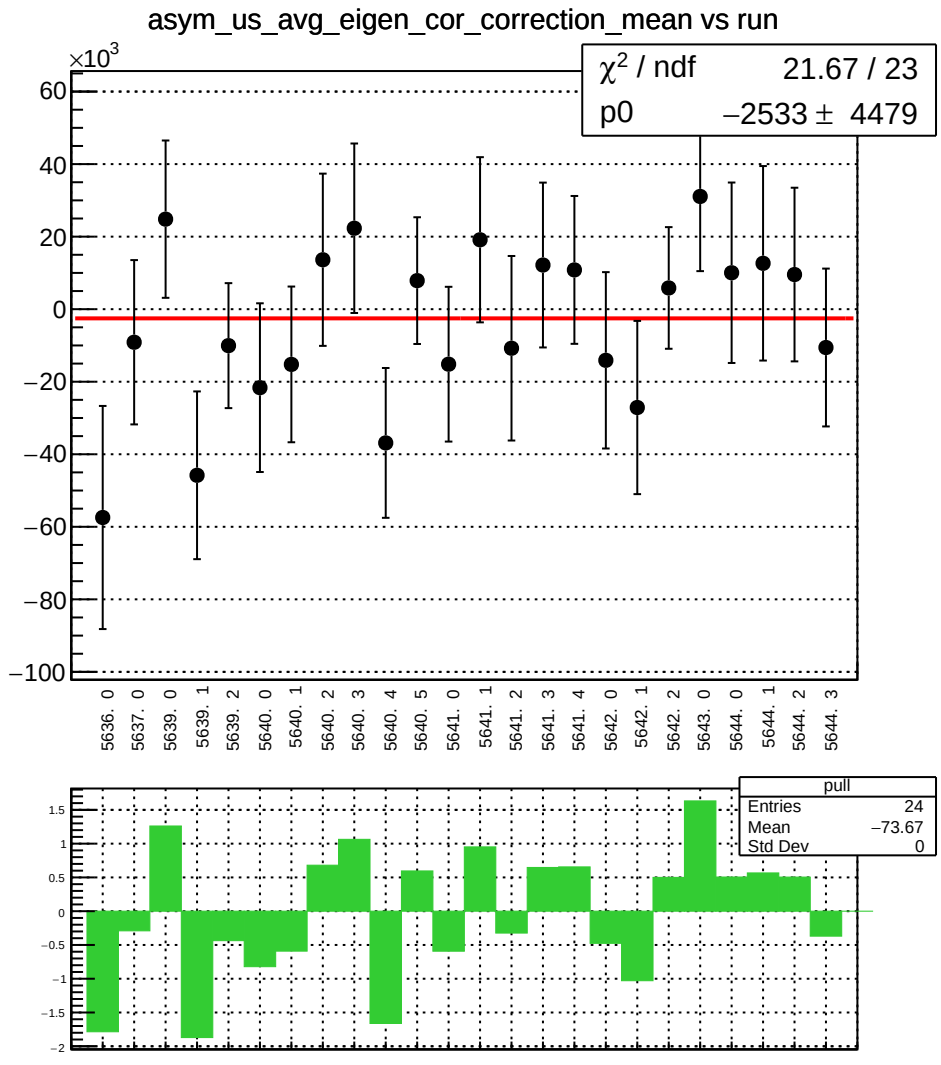
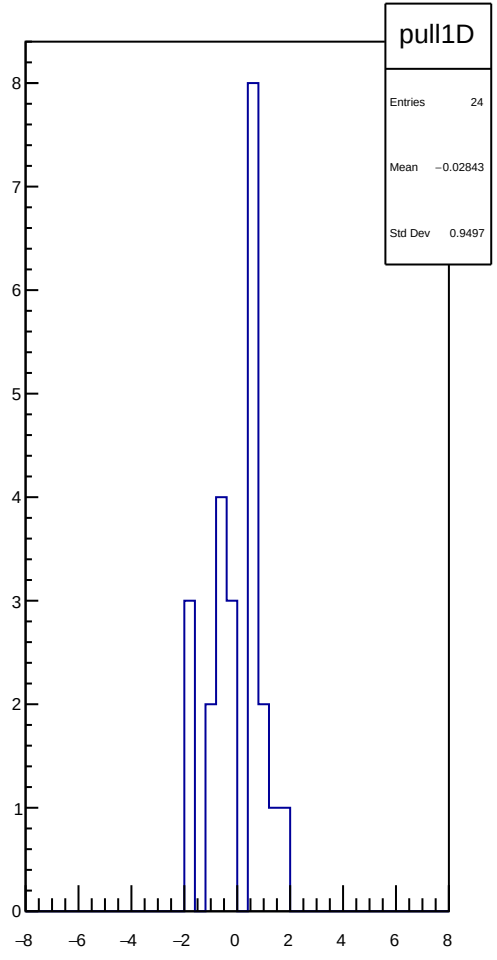
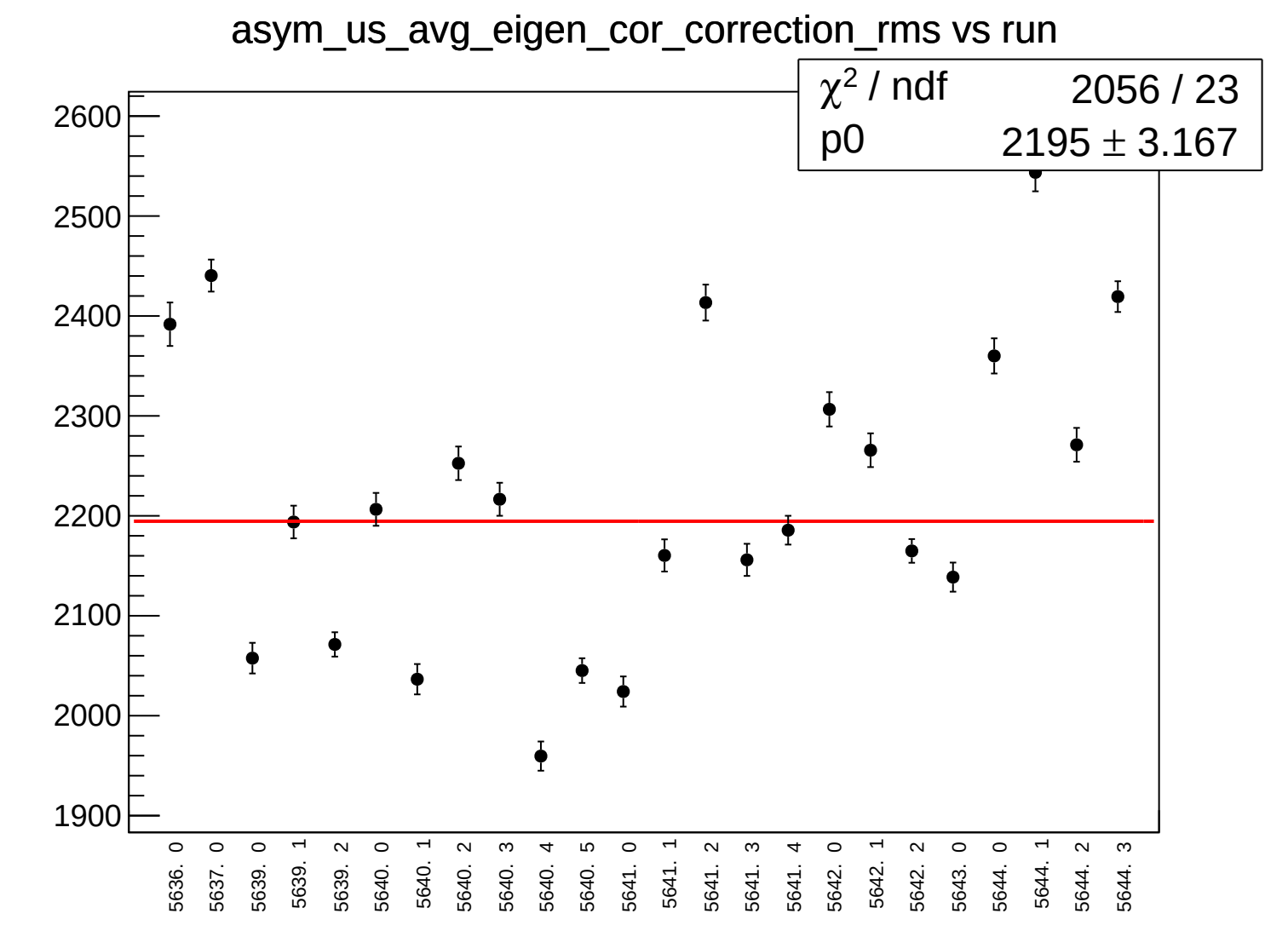
5644. 2
5644. 3


asym_us_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 21.67 / 23
p0 −2533 ± 4479
60
40
20
0
−20
−40
−60
−80
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −73.67
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.02843
Std Dev 0.9497
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 2056 / 23
p0 2195 ± 3.167
2600
2500
2400
2300
2200
2100
2000
1900
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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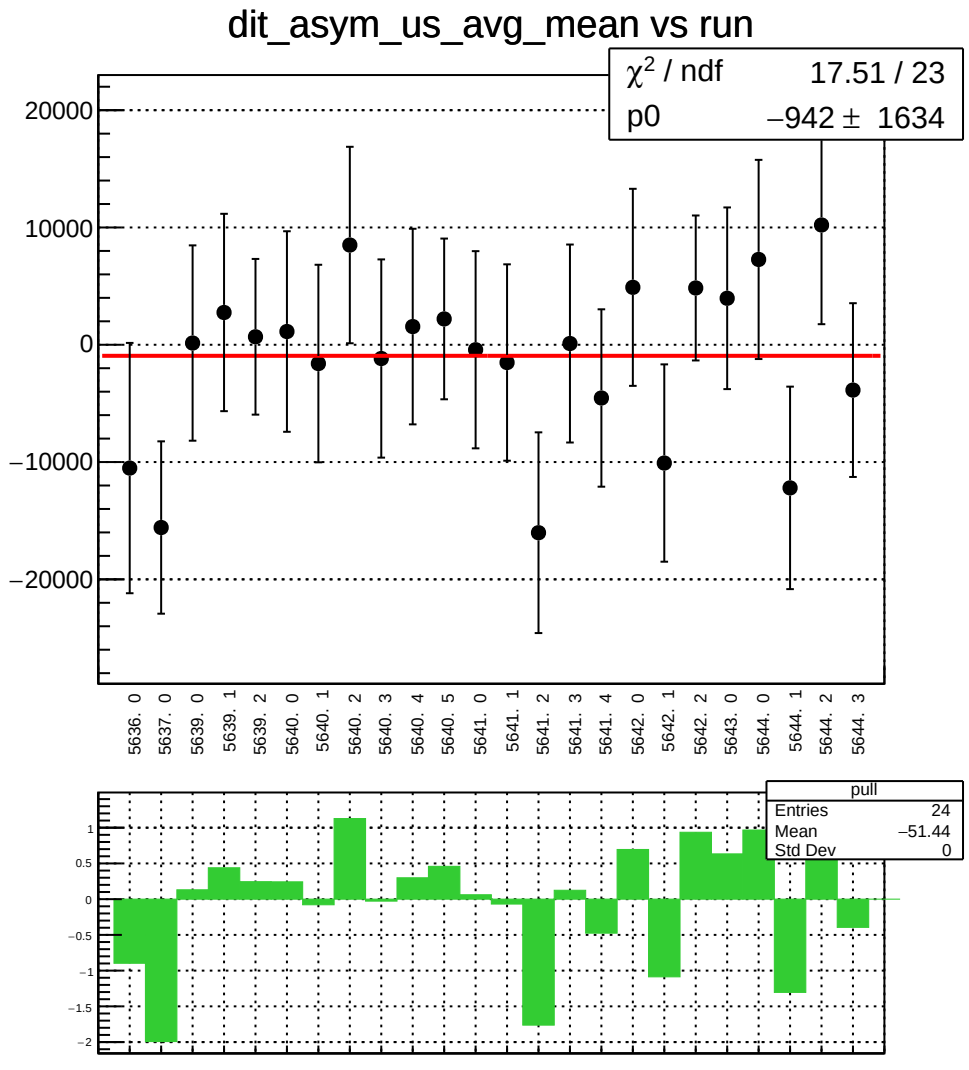
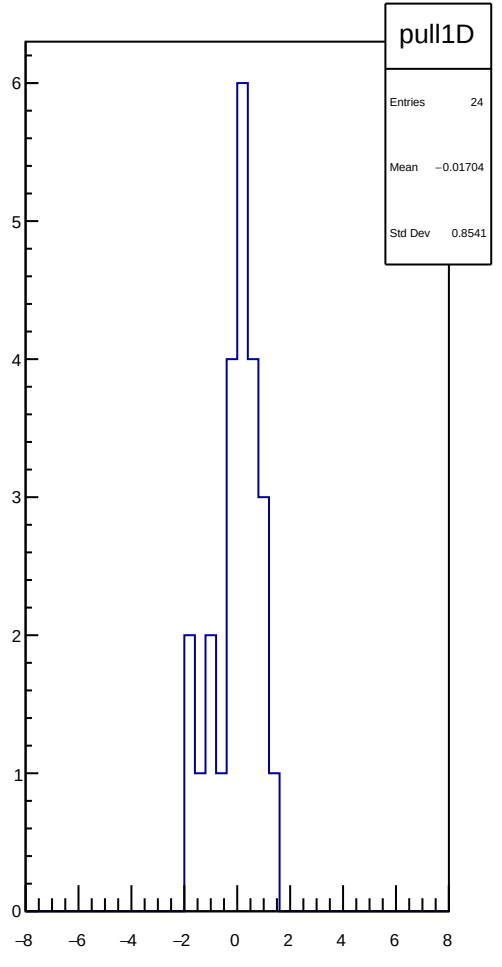
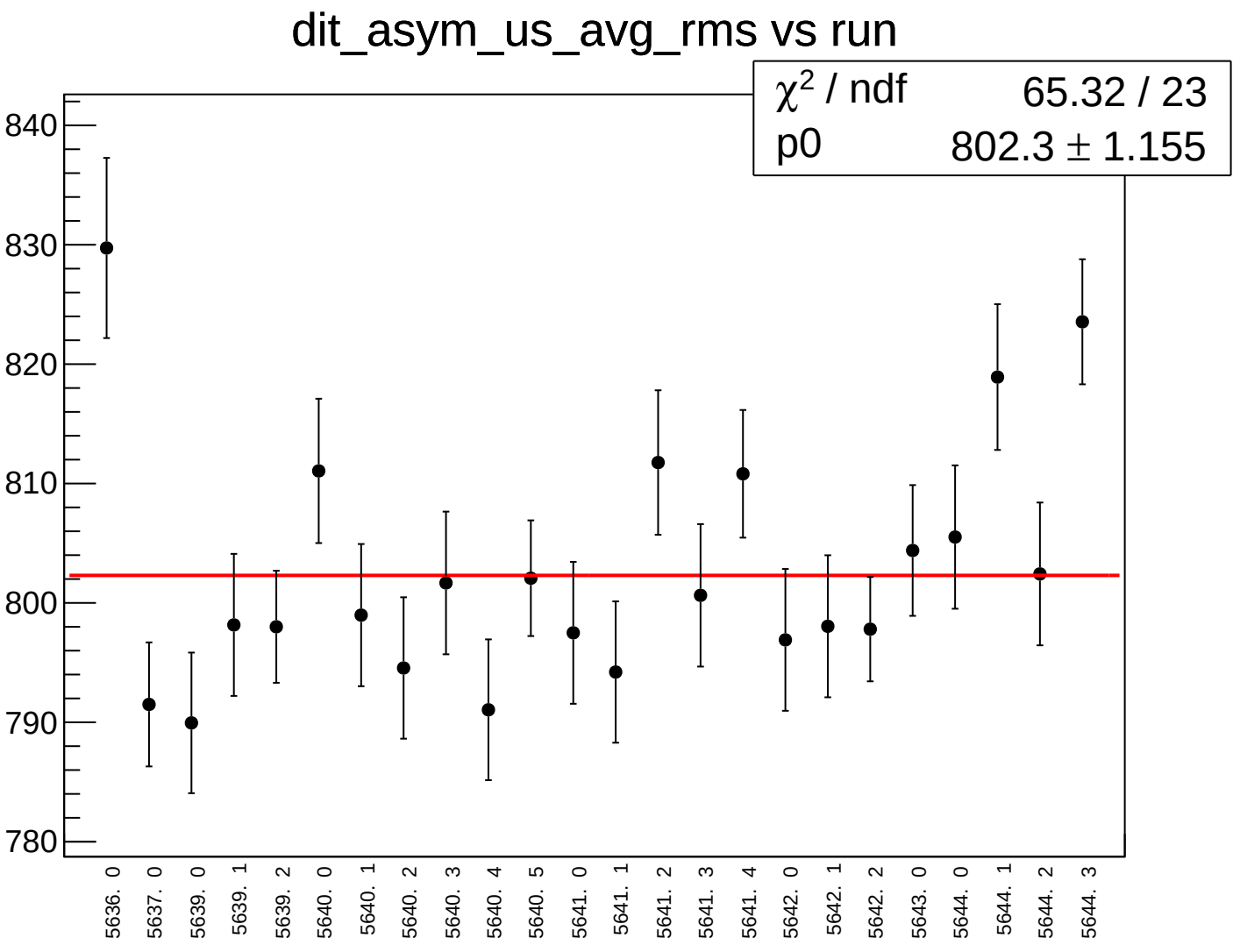
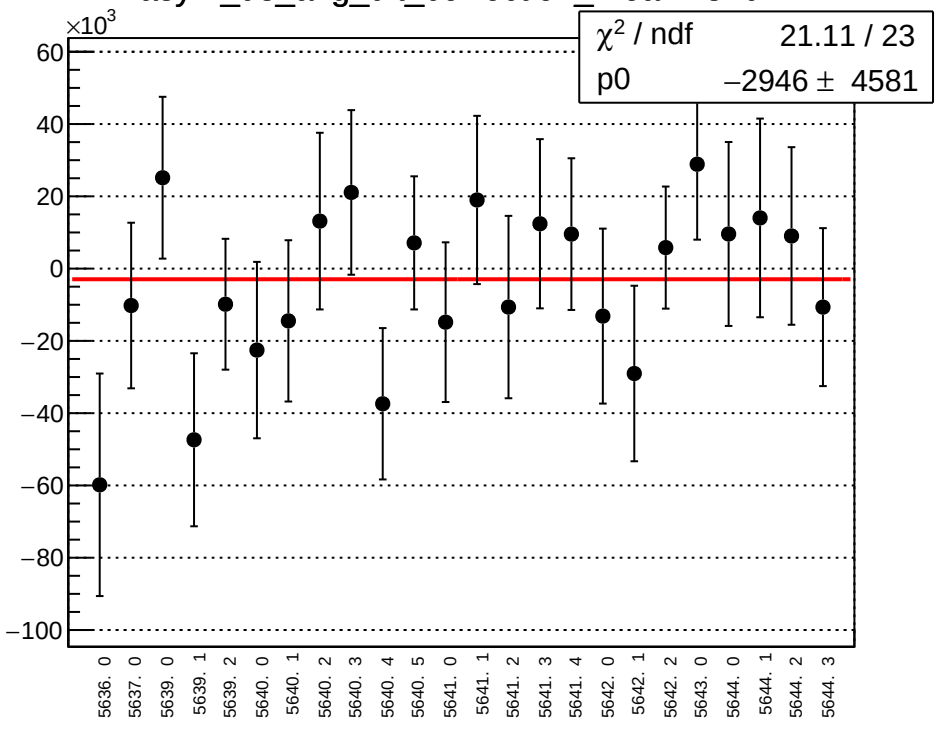
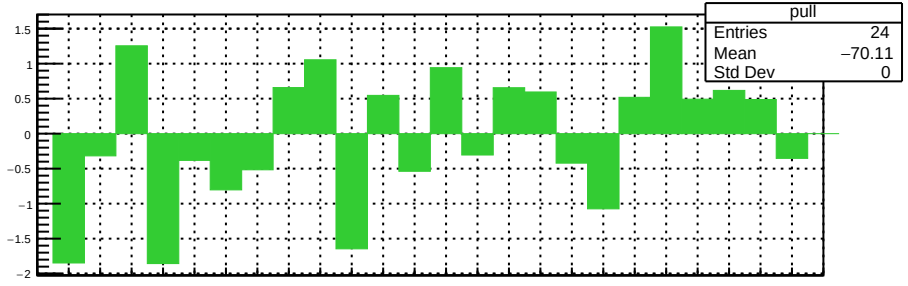
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

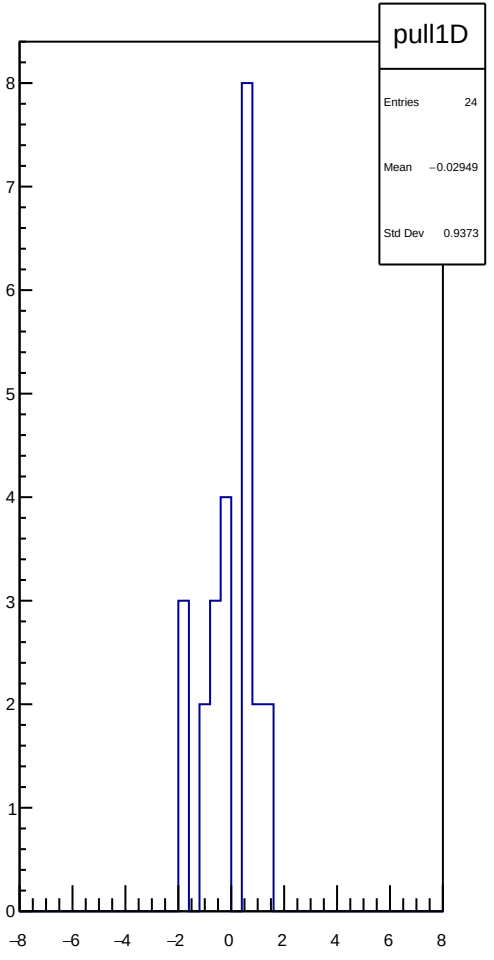

dit_asym_us_avg_mean vs run
χ² / ndf 17.51 / 23
p0 −942 ± 1634
20000
10000
0
−10000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −51.44
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

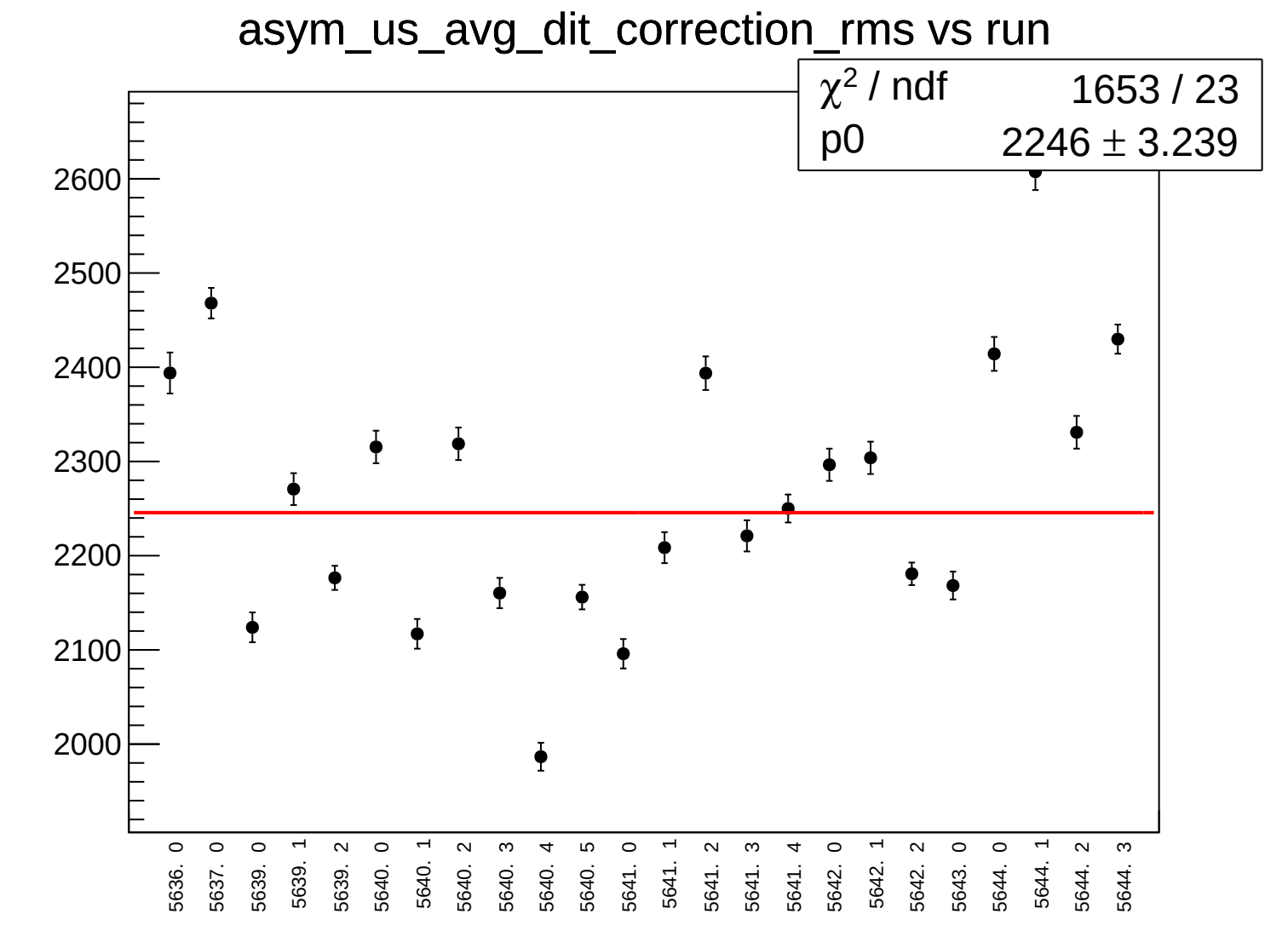

pull1D
Entries 24
Mean −0.01704
Std Dev 0.8541
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

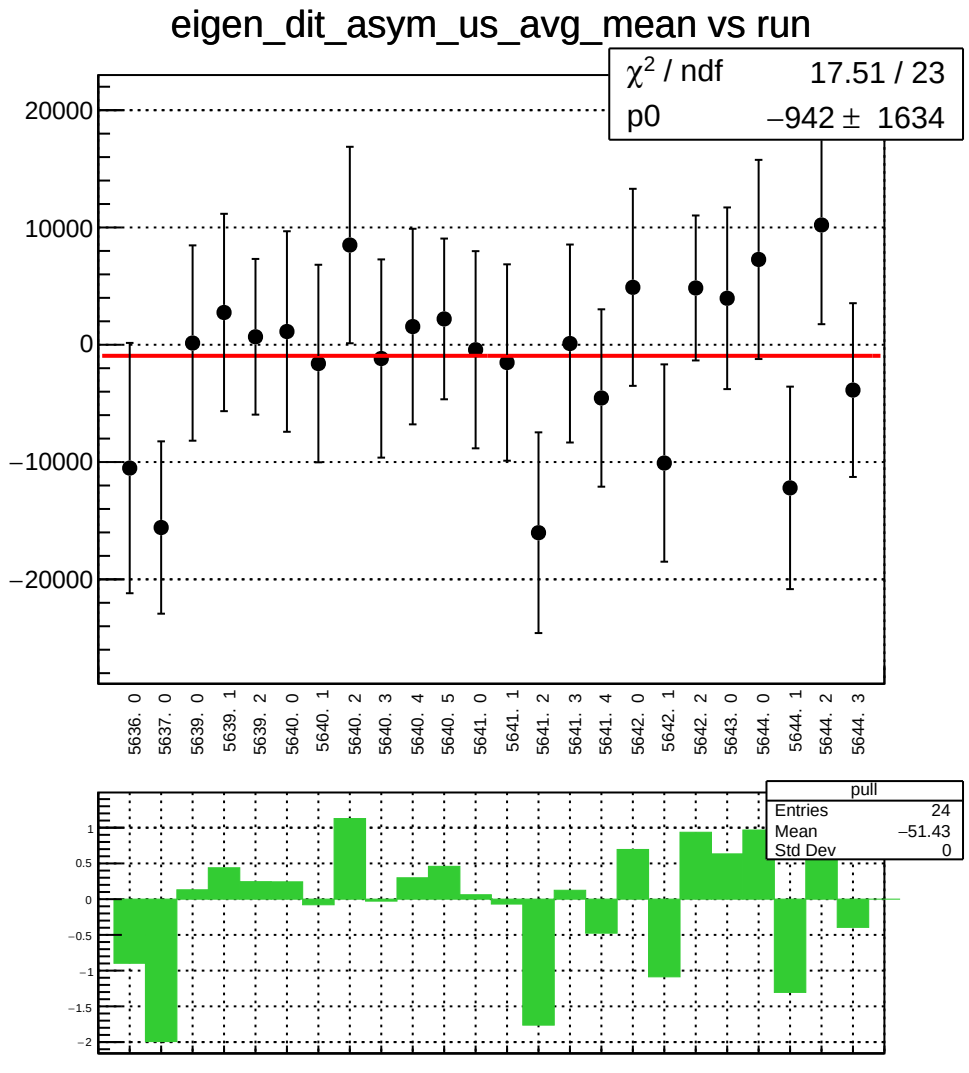

dit_asym_us_avg_rms vs run
χ² / ndf 65.32 / 23
p0 802.3 ± 1.155
840
830
820
810
800
790
780
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

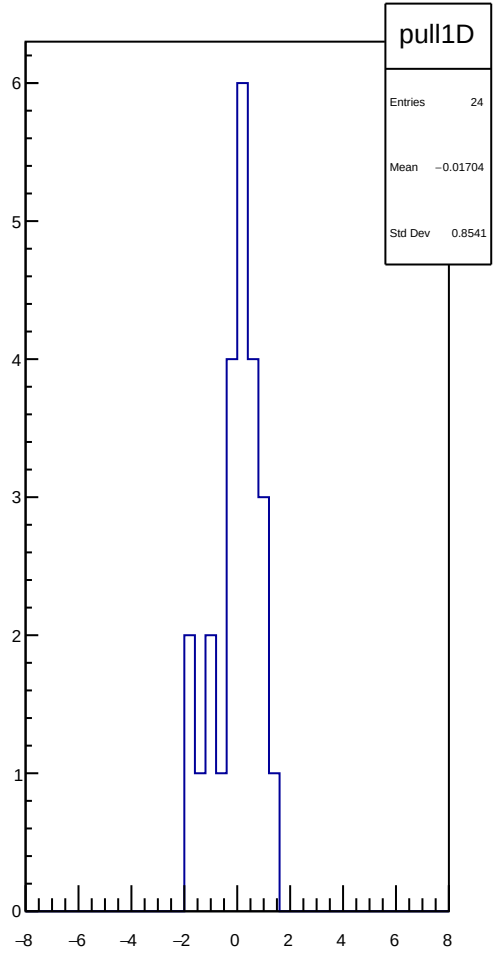

asym_us_avg_dit_correction_mean vs run
×10^3
χ² / ndf 21.11 / 23
p0 −2946 ± 4581
60
40
20
0
−20
−40
−60
−80
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

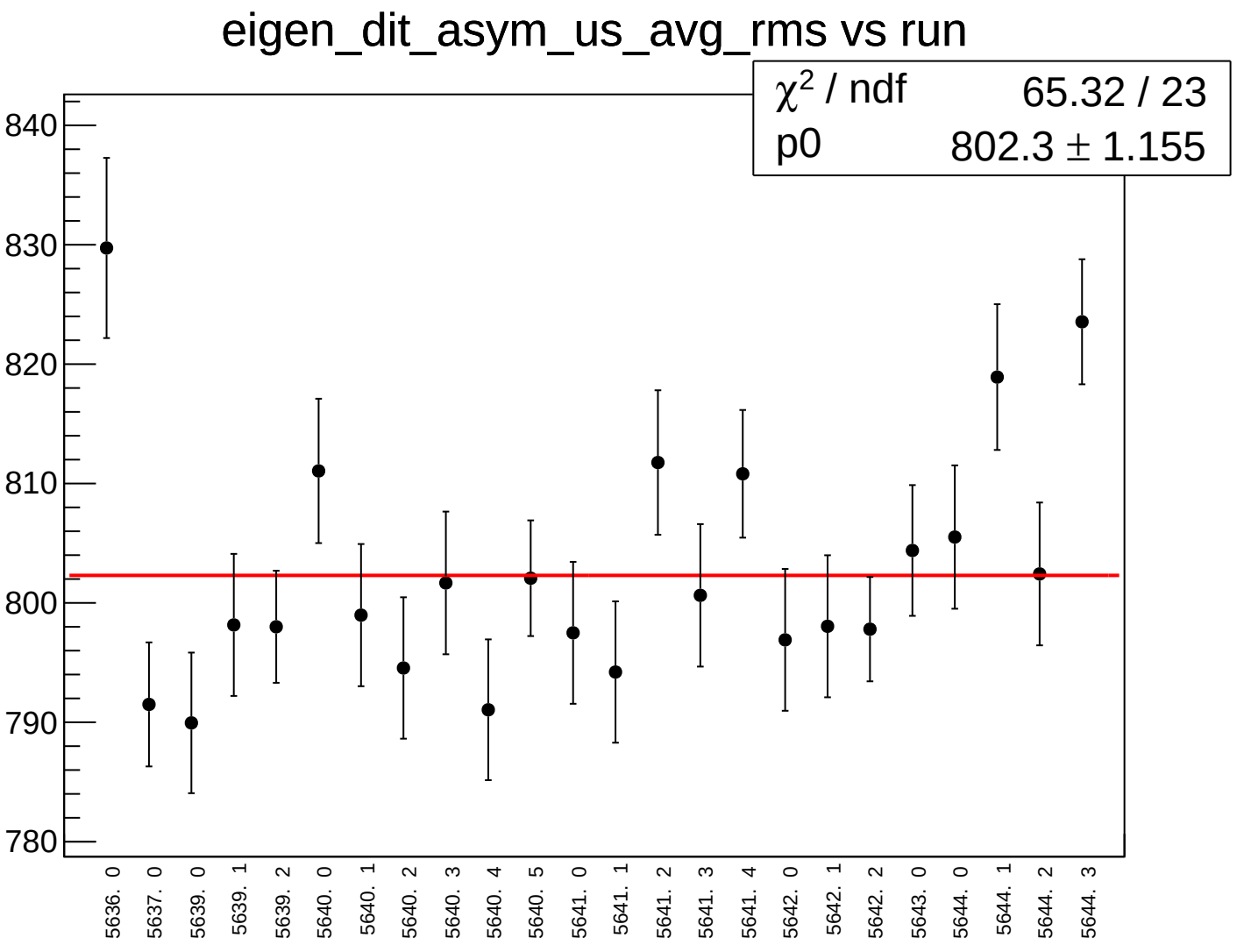

pull
Entries 24
Mean −70.11
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

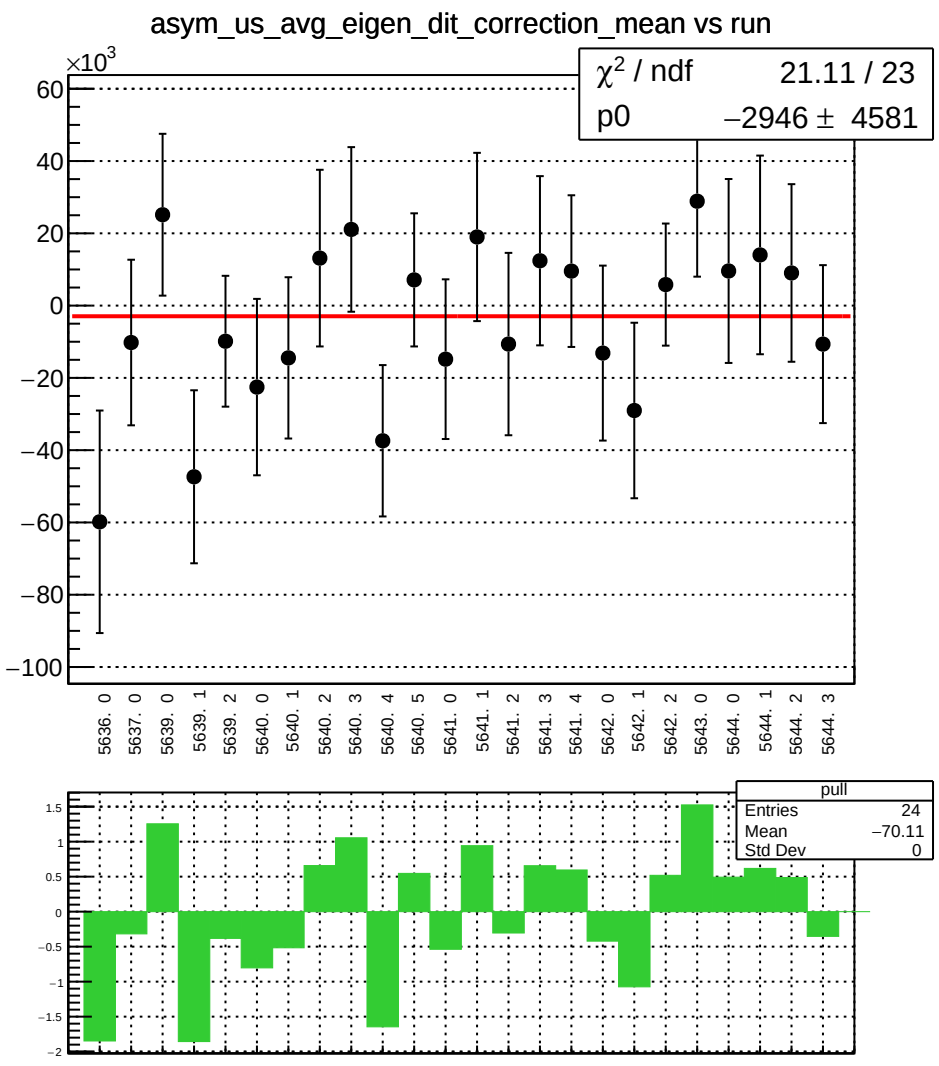

pull1D
Entries 24
Mean −0.02949
Std Dev 0.9373
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

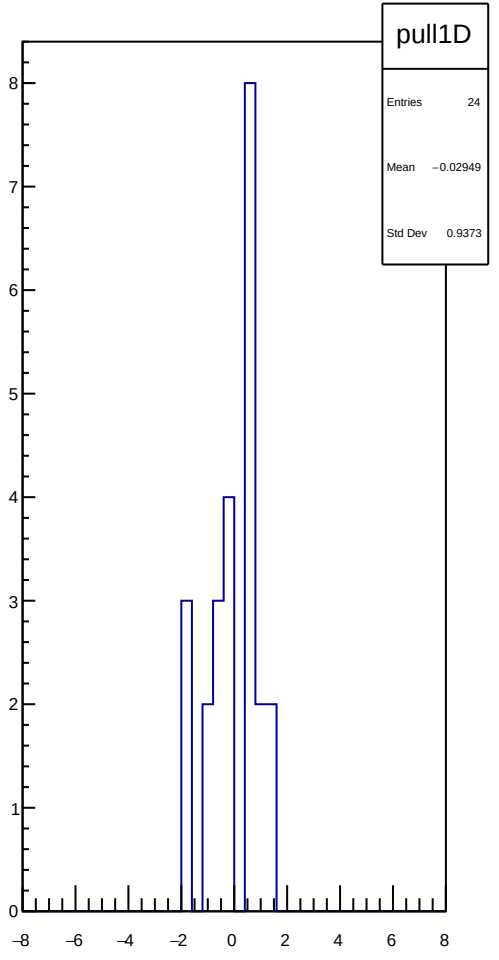

asym_us_avg_dit_correction_rms vs run
χ² / ndf 1653 / 23
p0 2246 ± 3.239
2600
2500
2400
2300
2200
2100
2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

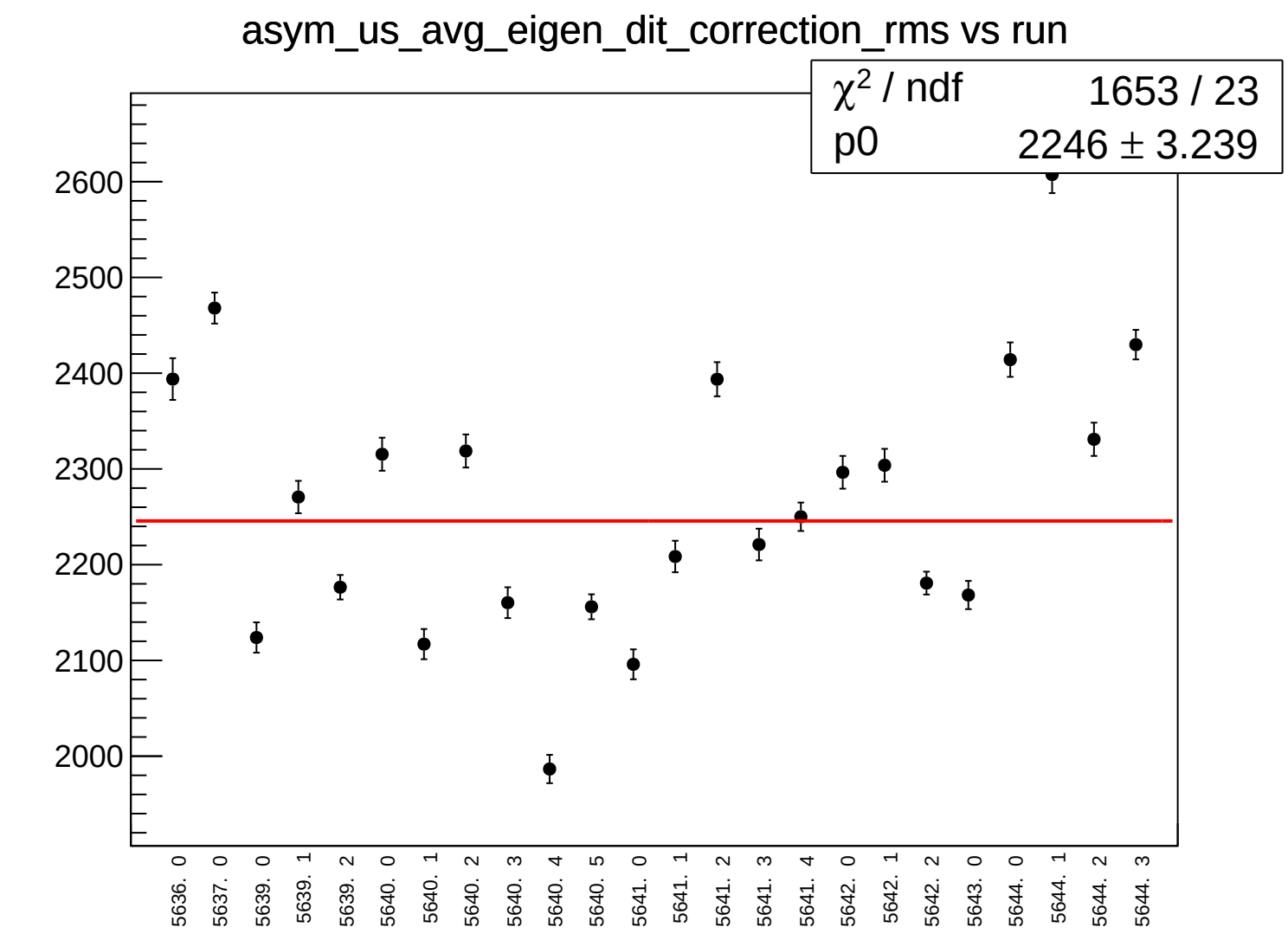

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 17.51 / 23
p0 −942 ± 1634
20000
10000
0
−10000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −51.43
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

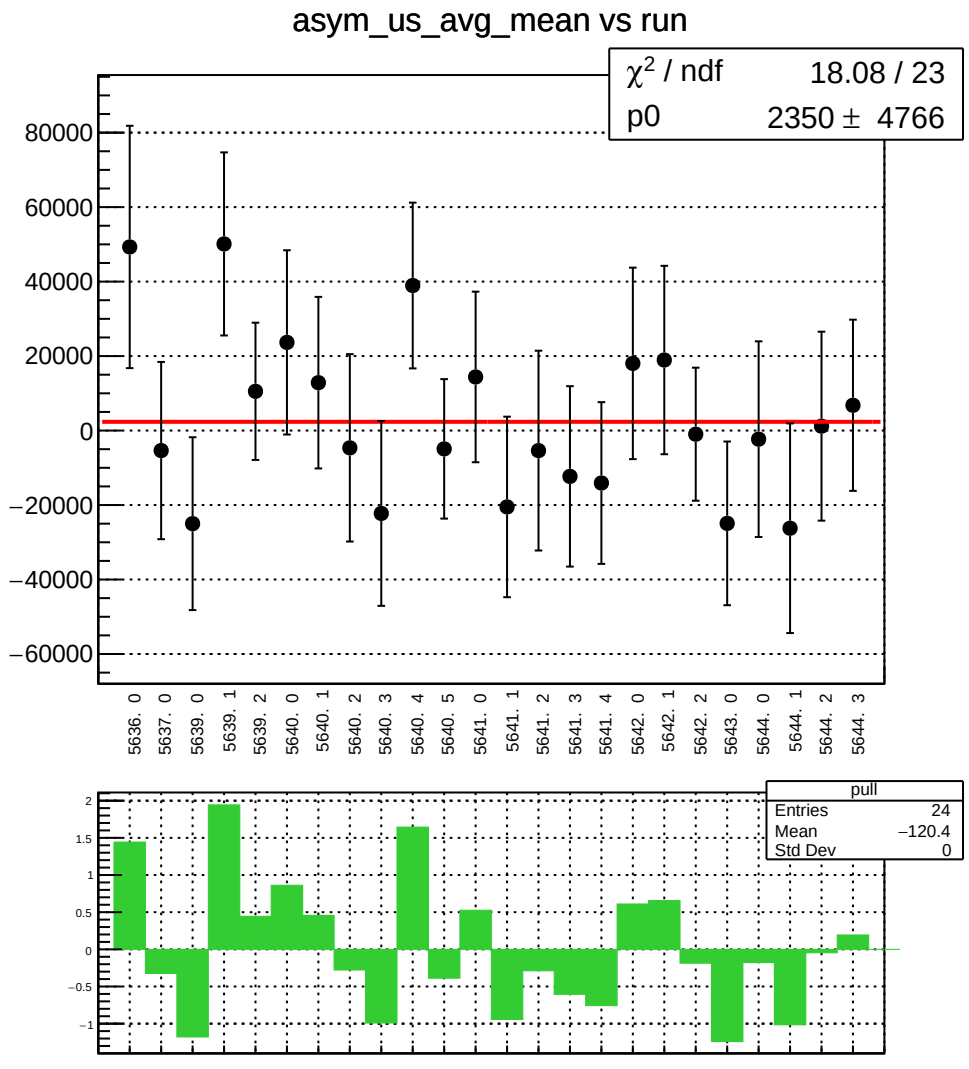

pull1D
Entries 24
Mean −0.01704
Std Dev 0.8541
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

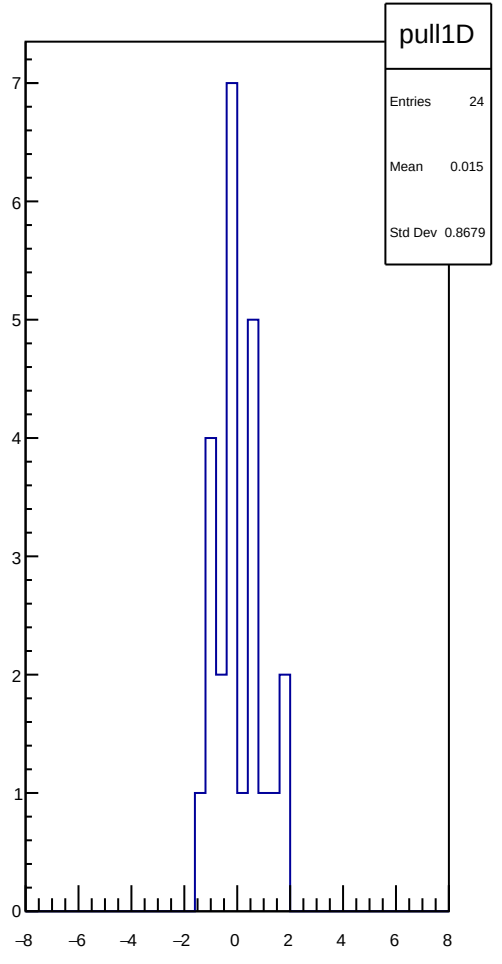

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 65.32 / 23
p0 802.3 ± 1.155
840
830
820
810
800
790
780
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

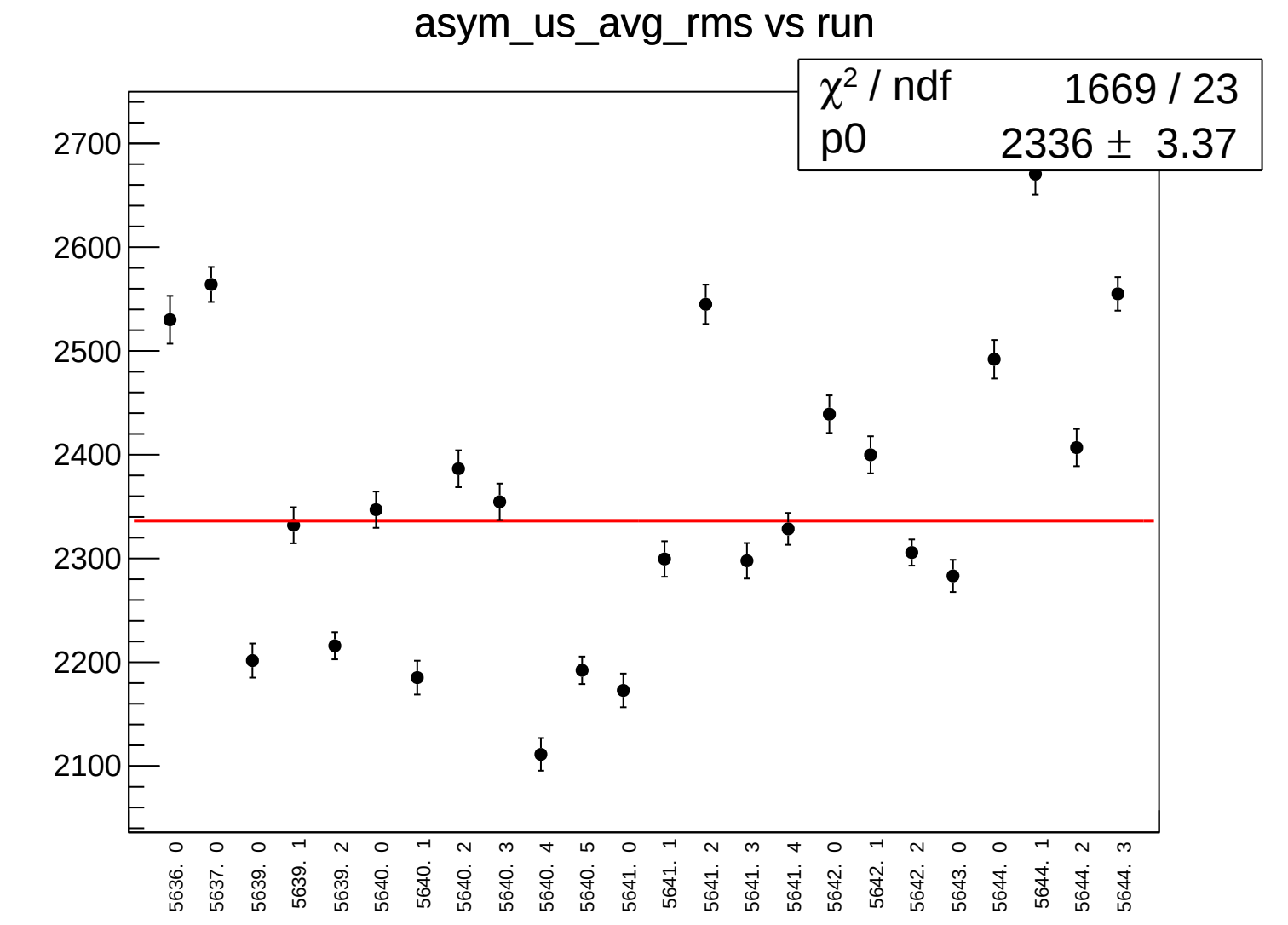

asym_us_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 21.11 / 23
p0 −2946 ± 4581
60
40
20
0
−20
−40
−60
−80
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −70.11
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

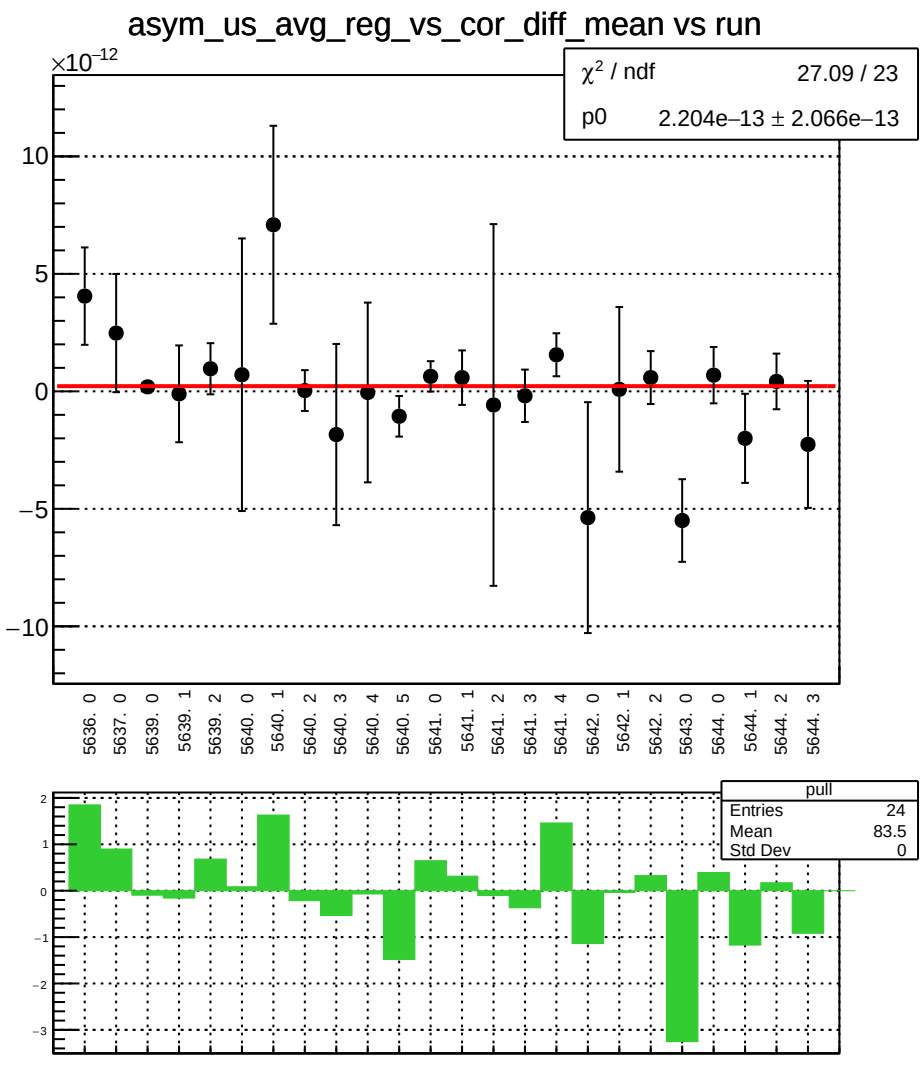

pull1D
Entries 24
Mean −0.02949
Std Dev 0.9373
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

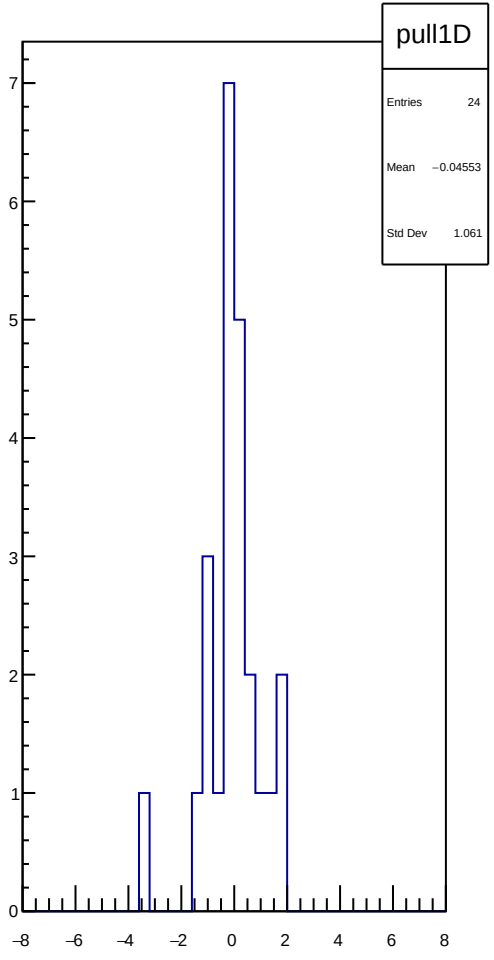

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 1653 / 23
p0 2246 ± 3.239
2600
2500
2400
2300
2200
2100
2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

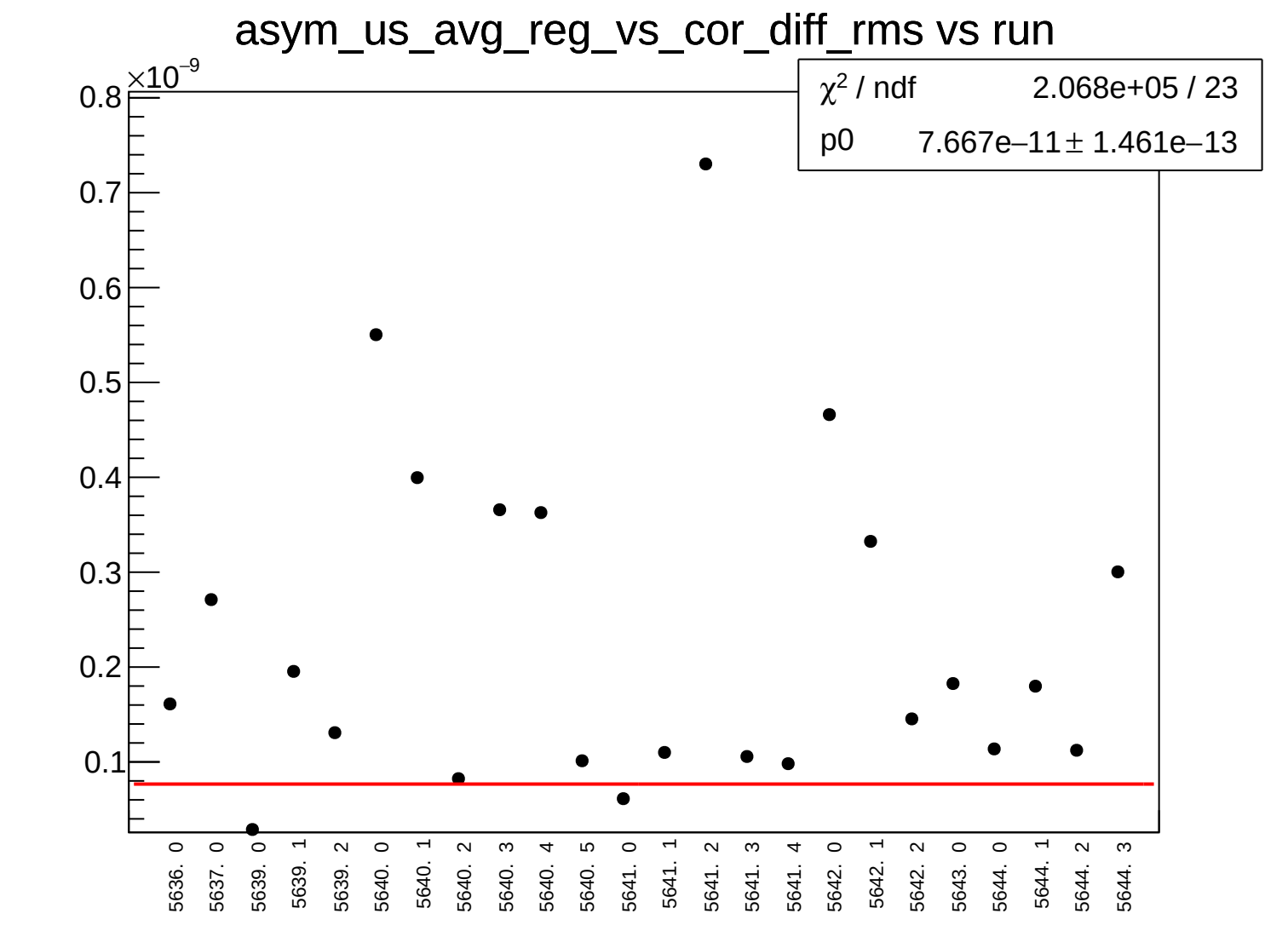

asym_us_avg_mean vs run
χ² / ndf 18.08 / 23
p0 2350 ± 4766
80000
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −120.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

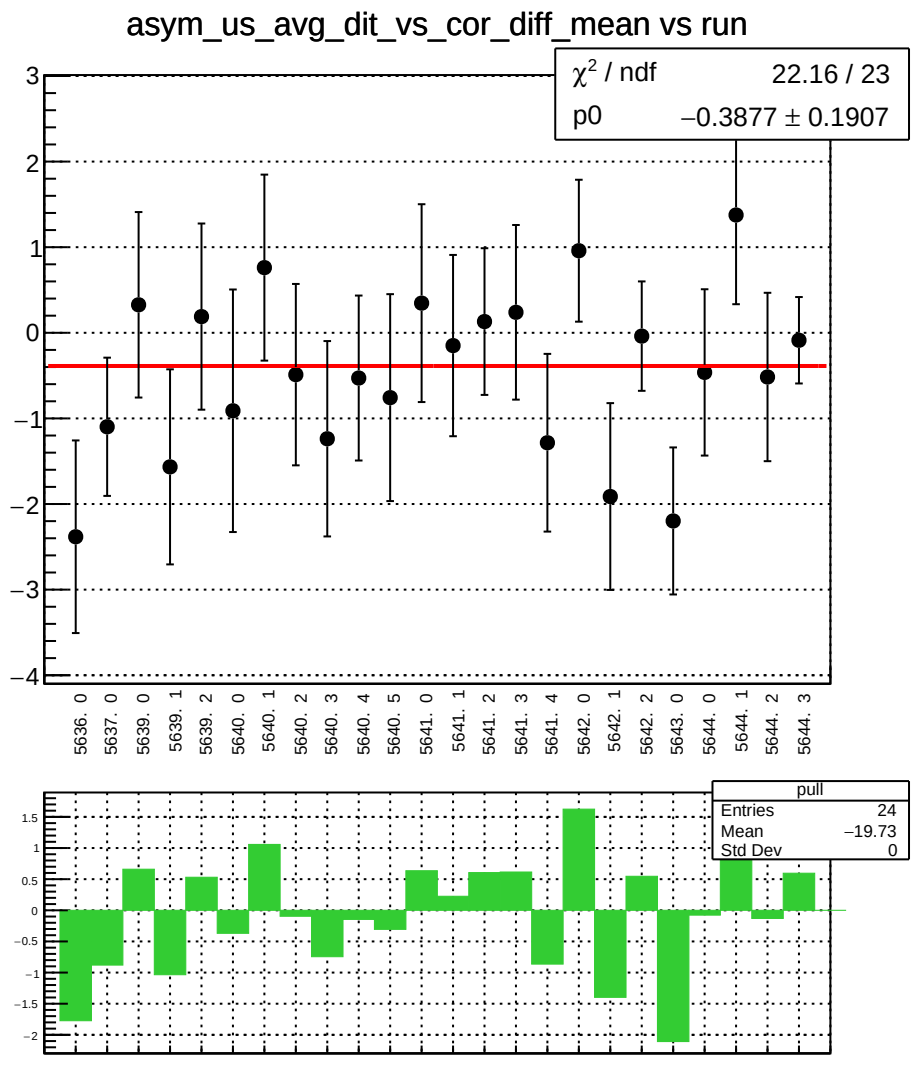

pull1D
Entries 24
Mean 0.015
Std Dev 0.8679
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

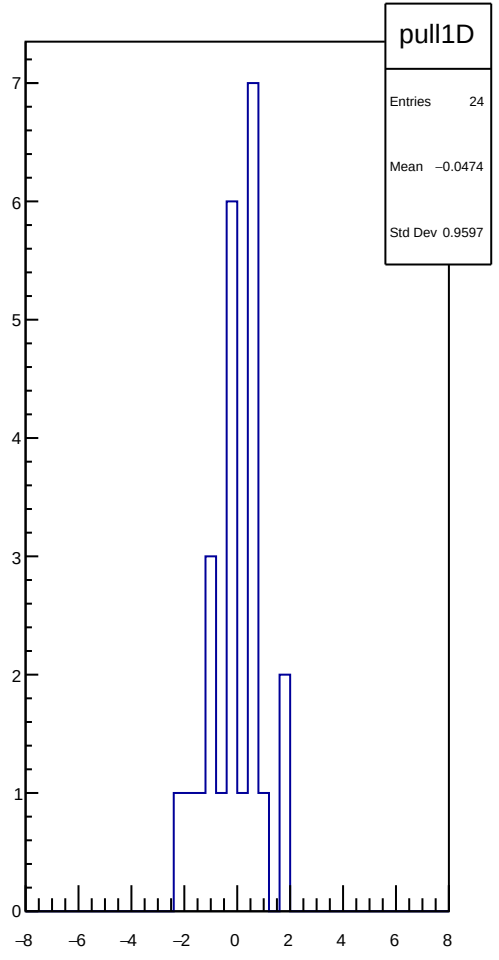

asym_us_avg_rms vs run
χ² / ndf 1669 / 23
p0 2336 ± 3.37
2700
2600
2500
2400
2300
2200
2100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

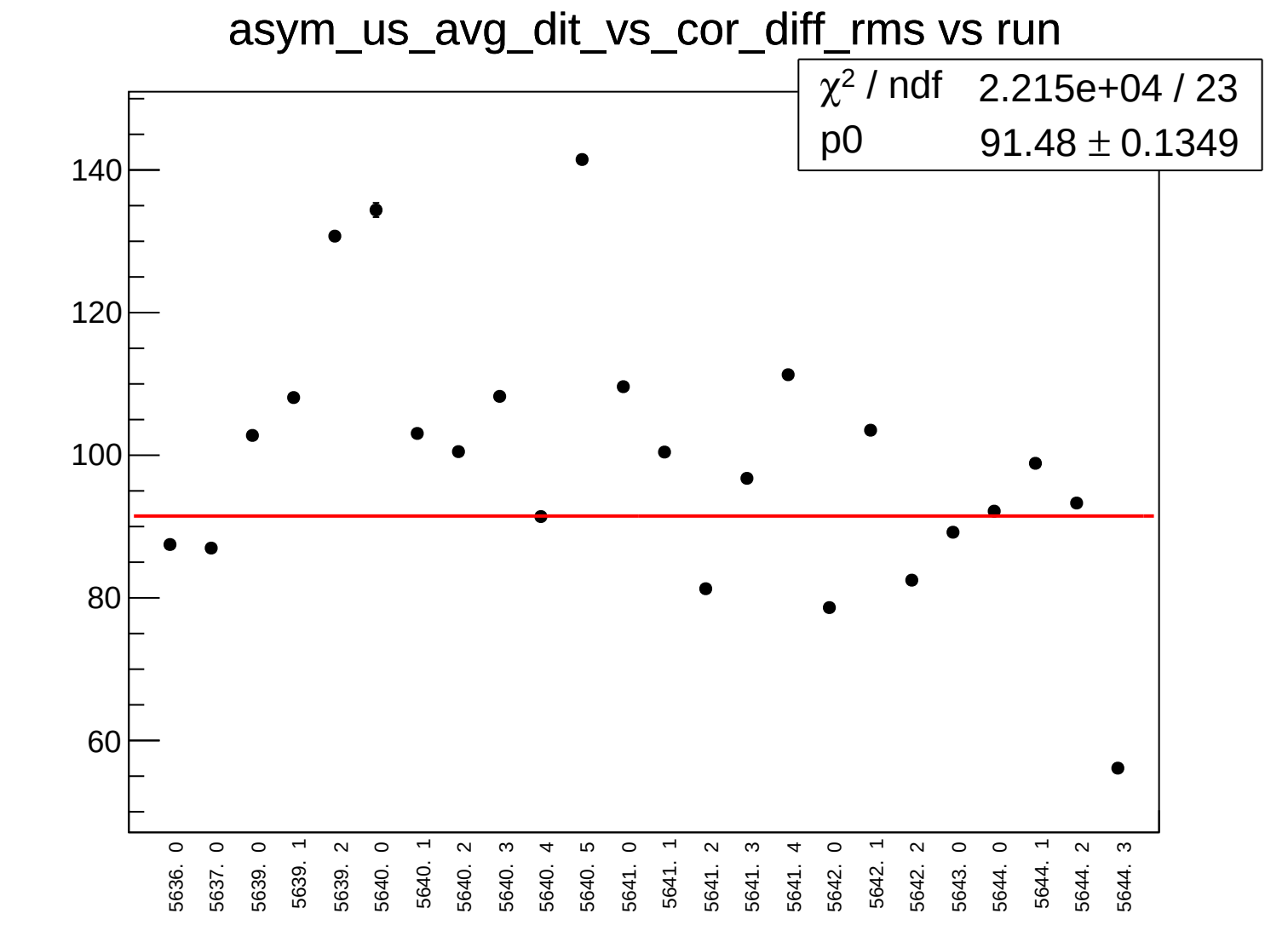

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 27.09 / 23
p0 2.204e−13 ± 2.066e−13
10
5
0
−5
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 83.5
Std Dev 0
2
1
0
−1
−2
−3

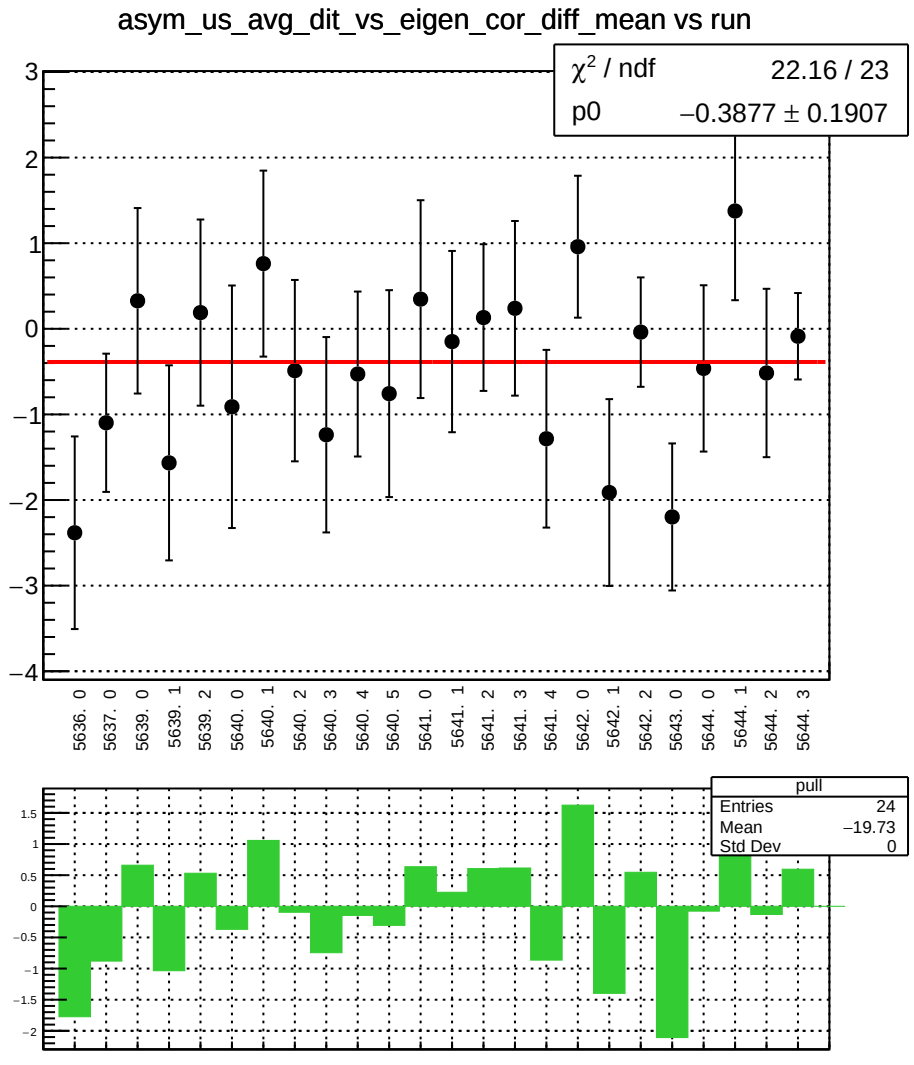

pull1D
Entries 24
Mean −0.04553
Std Dev 1.061
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

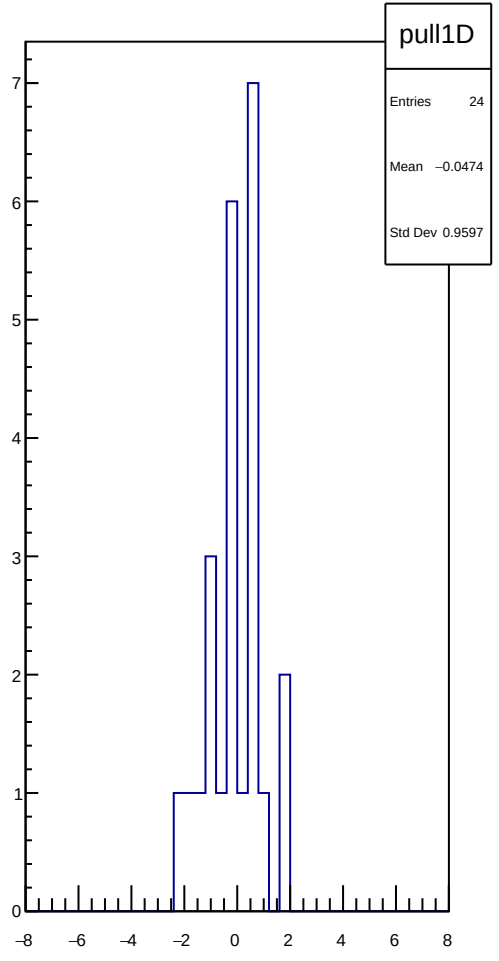

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 2.068e+05 / 23
p0 7.667e−11 ± 1.461e−13
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

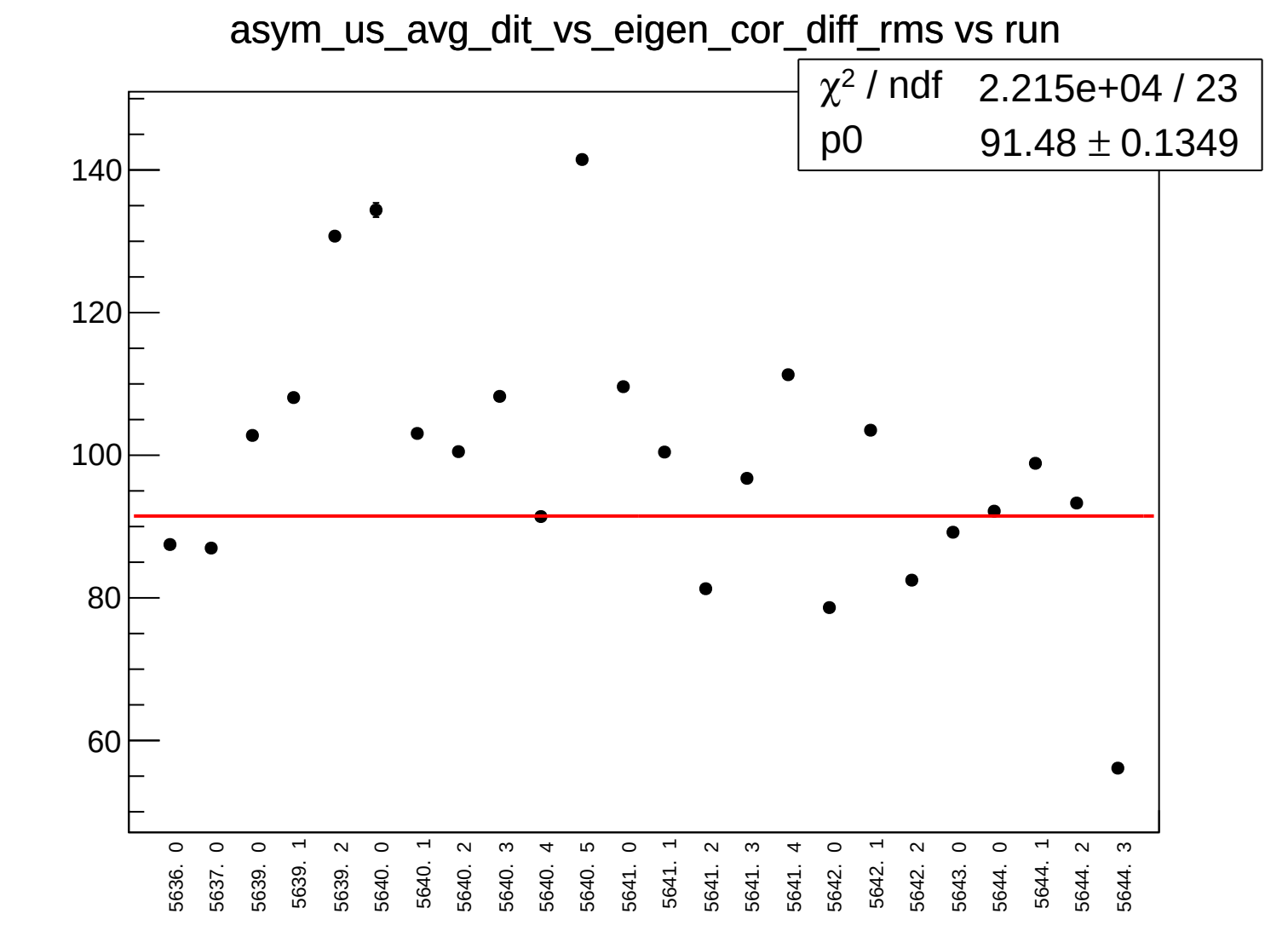

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 22.16 / 23
p0 −0.3877 ± 0.1907
3
2
1
0
−1
−2
−3
−4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −19.73
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

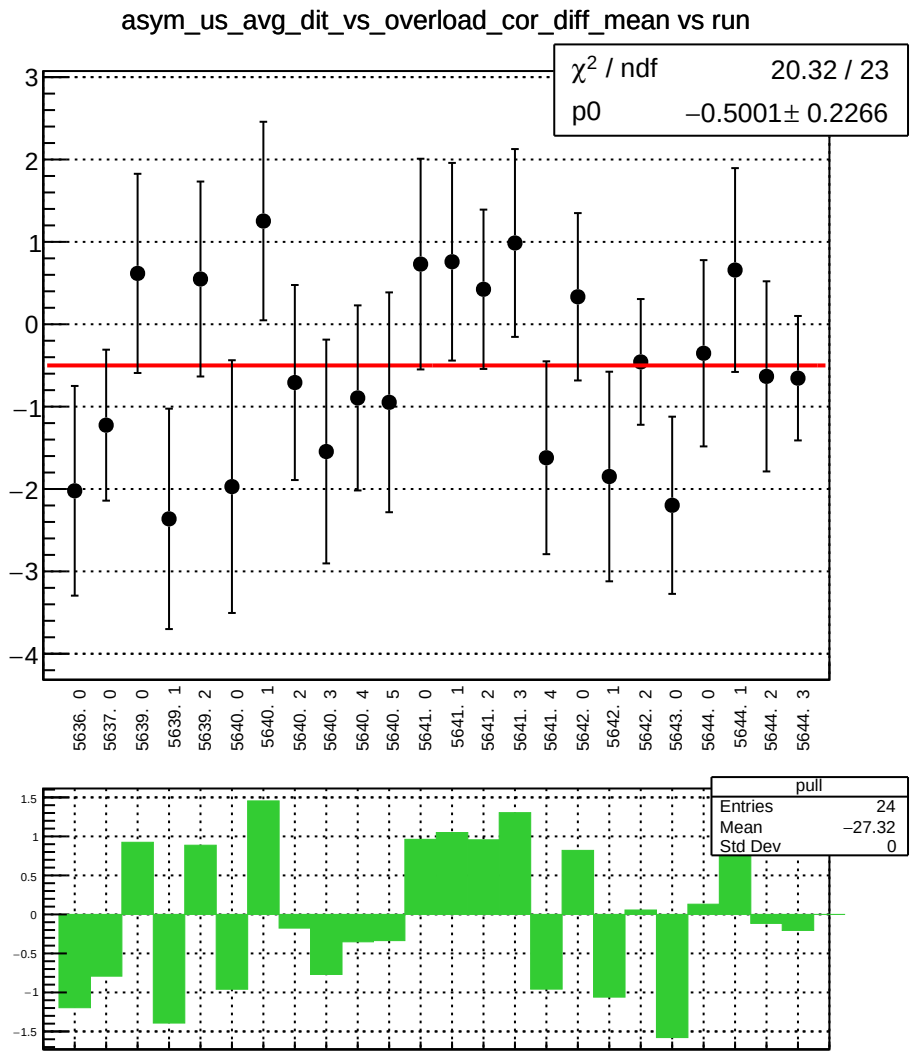

pull1D
Entries 24
Mean −0.0474
Std Dev 0.9597
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

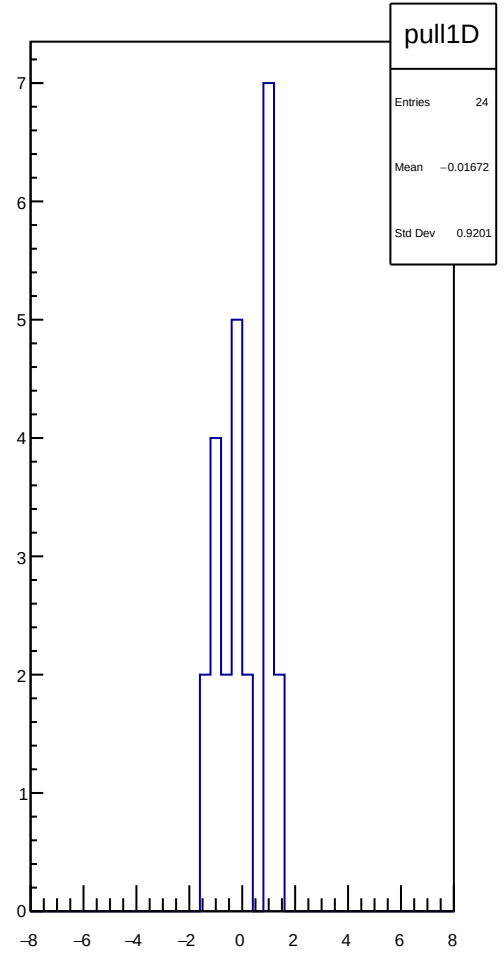

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.215e+04 / 23
p0 91.48 ± 0.1349
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

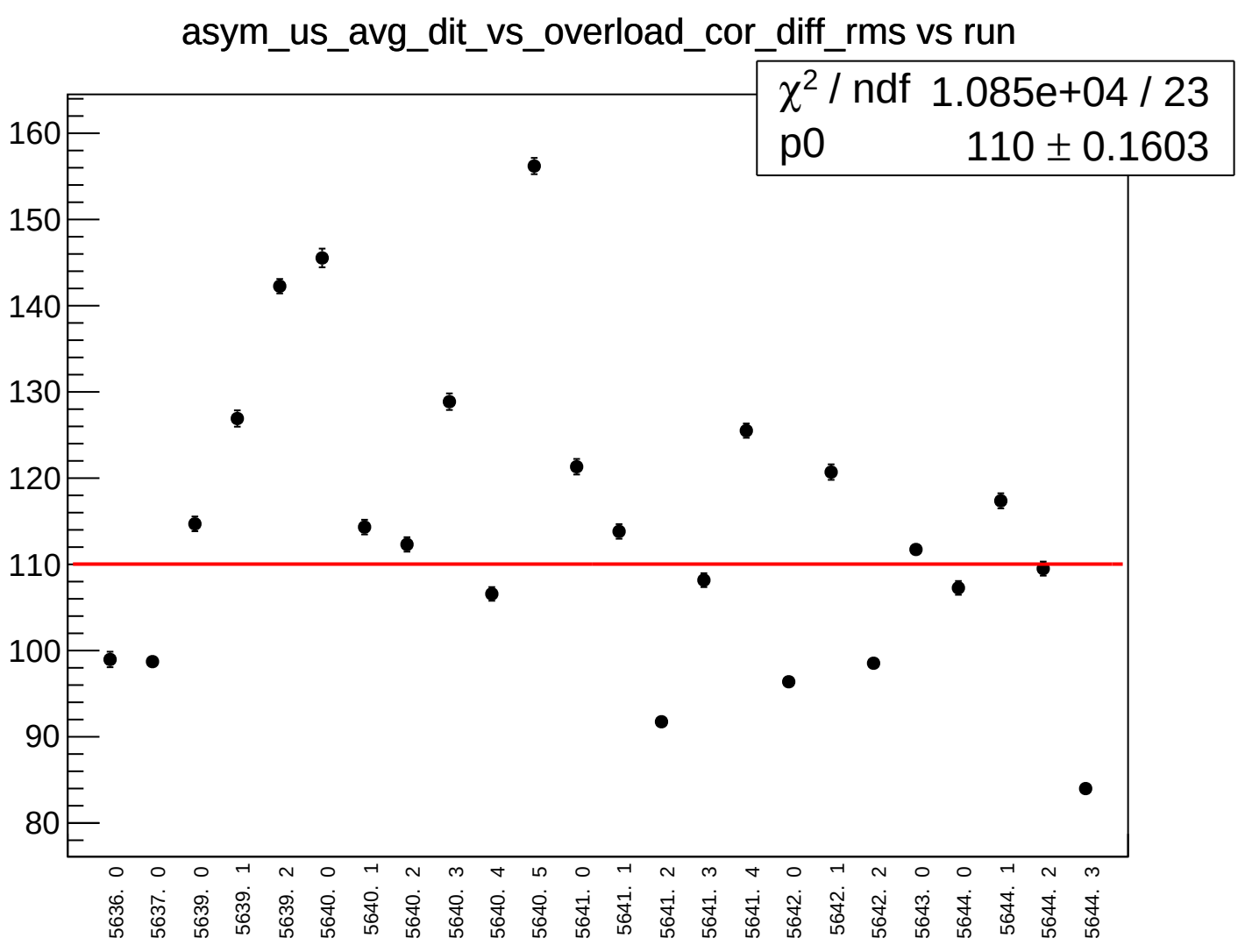

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 22.16 / 23
p0 −0.3877 ± 0.1907
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −19.73
Std Dev 0

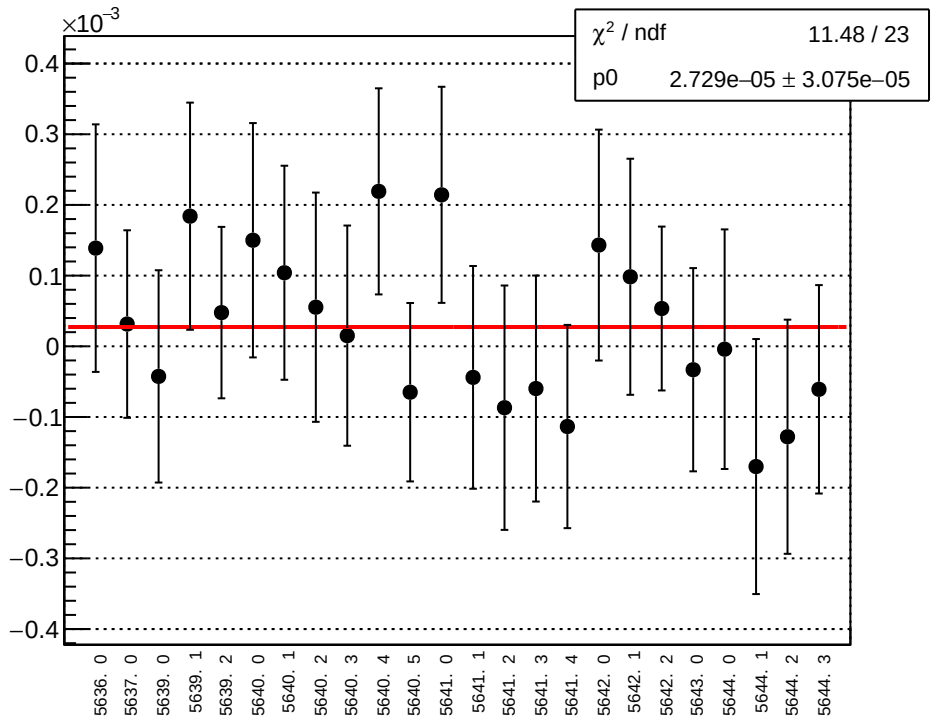

pull1D
Entries 24
Mean −0.0474
Std Dev 0.9597

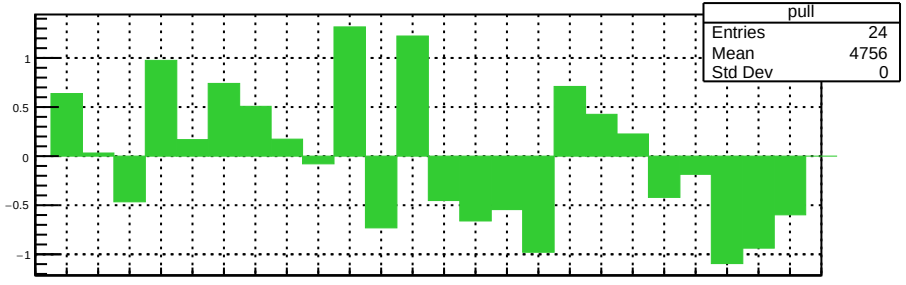

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.215e+04 / 23
p0 91.48 ± 0.1349
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

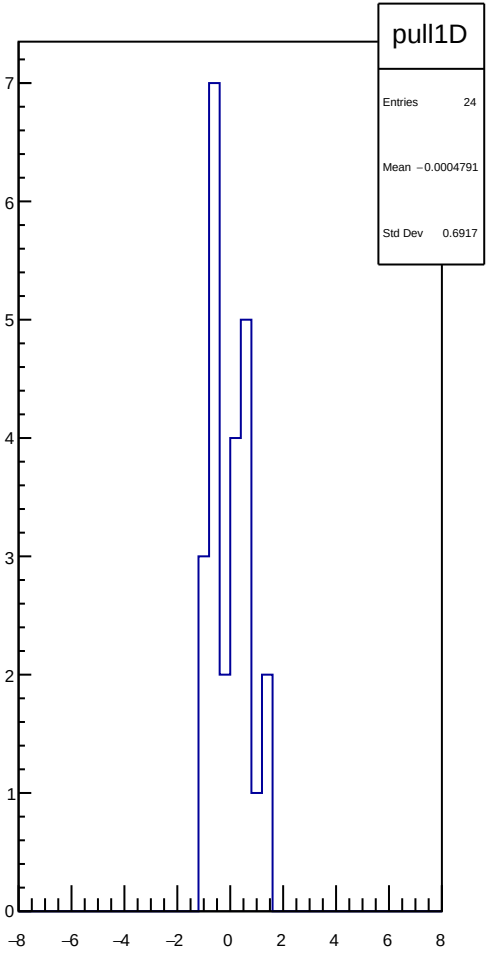

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 20.32 / 23
p0 −0.5001± 0.2266
3
2
1
0
−1
−2
−3
−4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −27.32
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

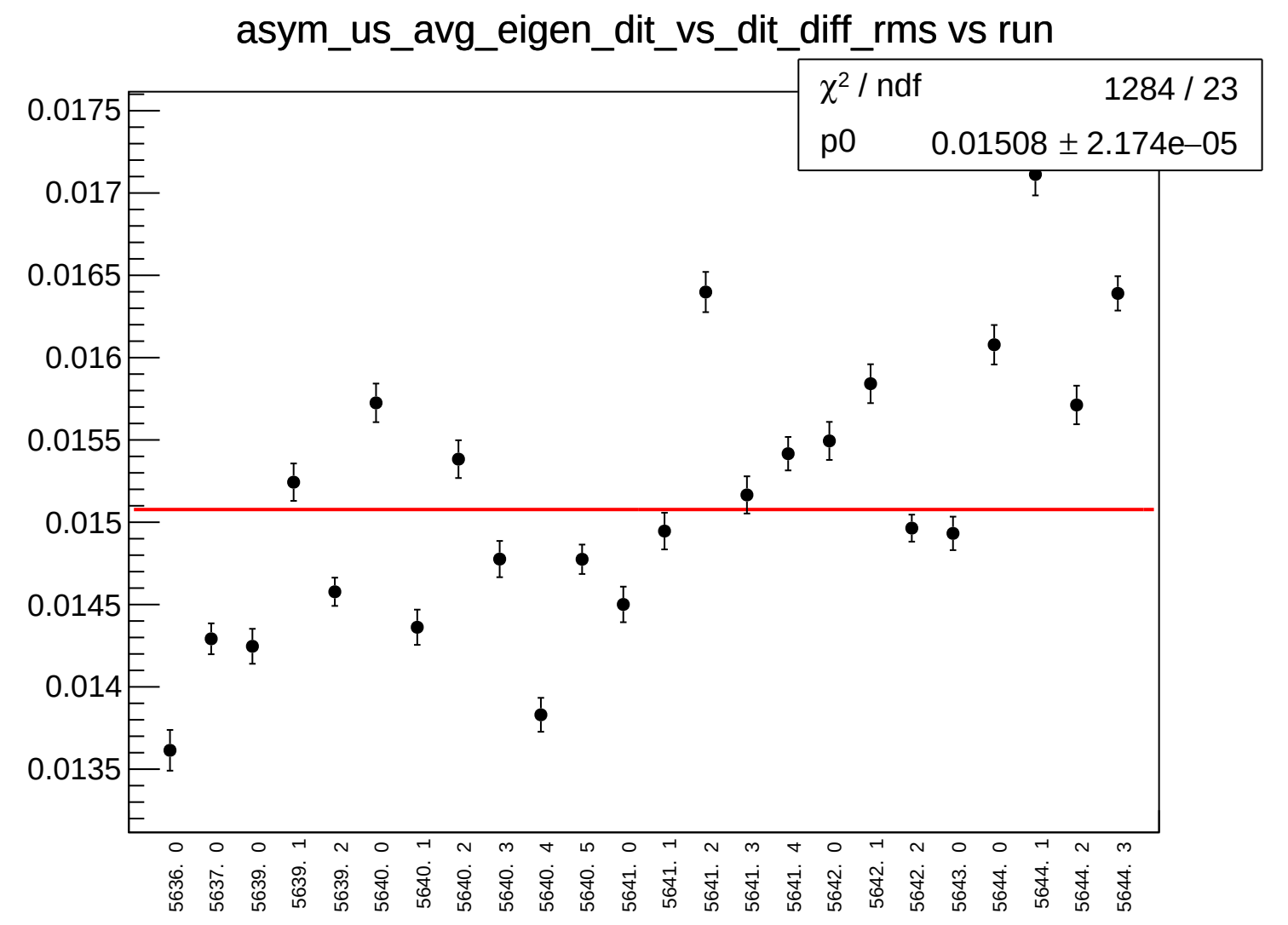

pull1D
Entries 24
Mean −0.01672
Std Dev 0.9201
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

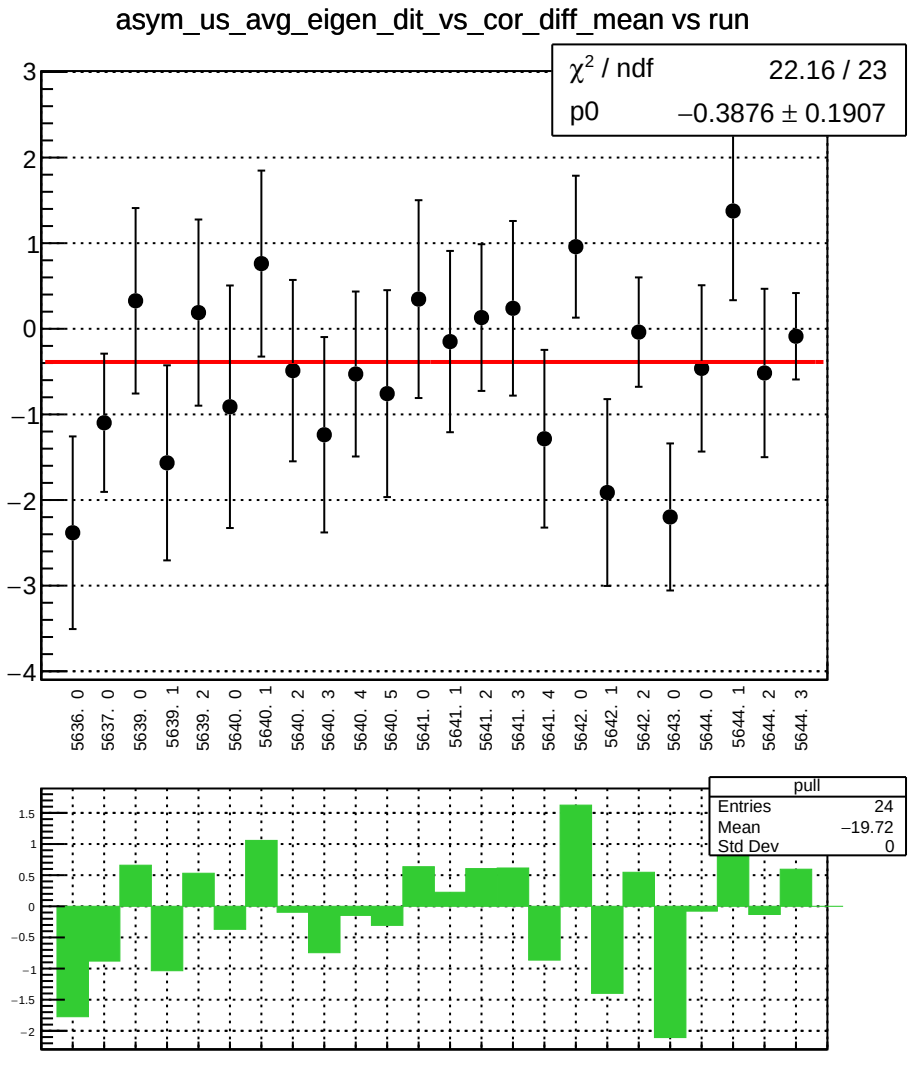

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.085e+04 / 23
p0 110 ± 0.1603
160
150
140
130
120
110
100
90
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

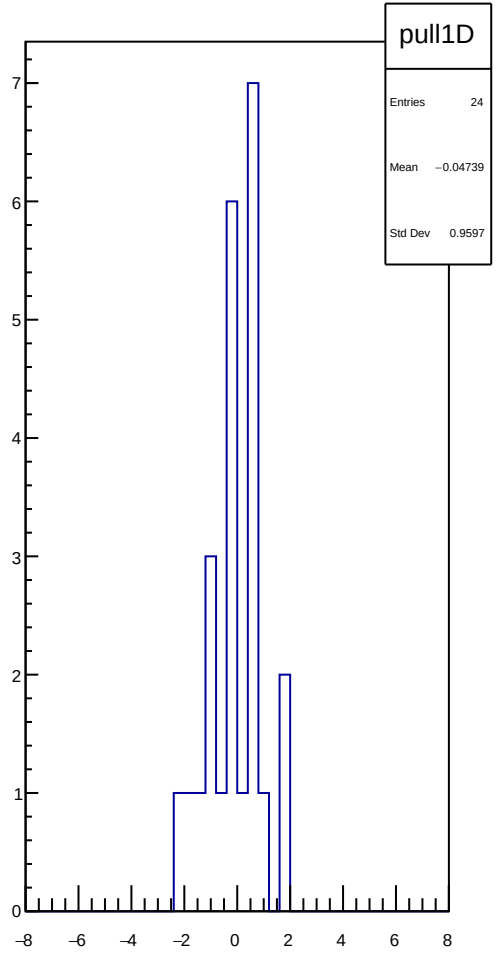

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 11.48 / 23
p0 2.729e−05 ± 3.075e−05
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

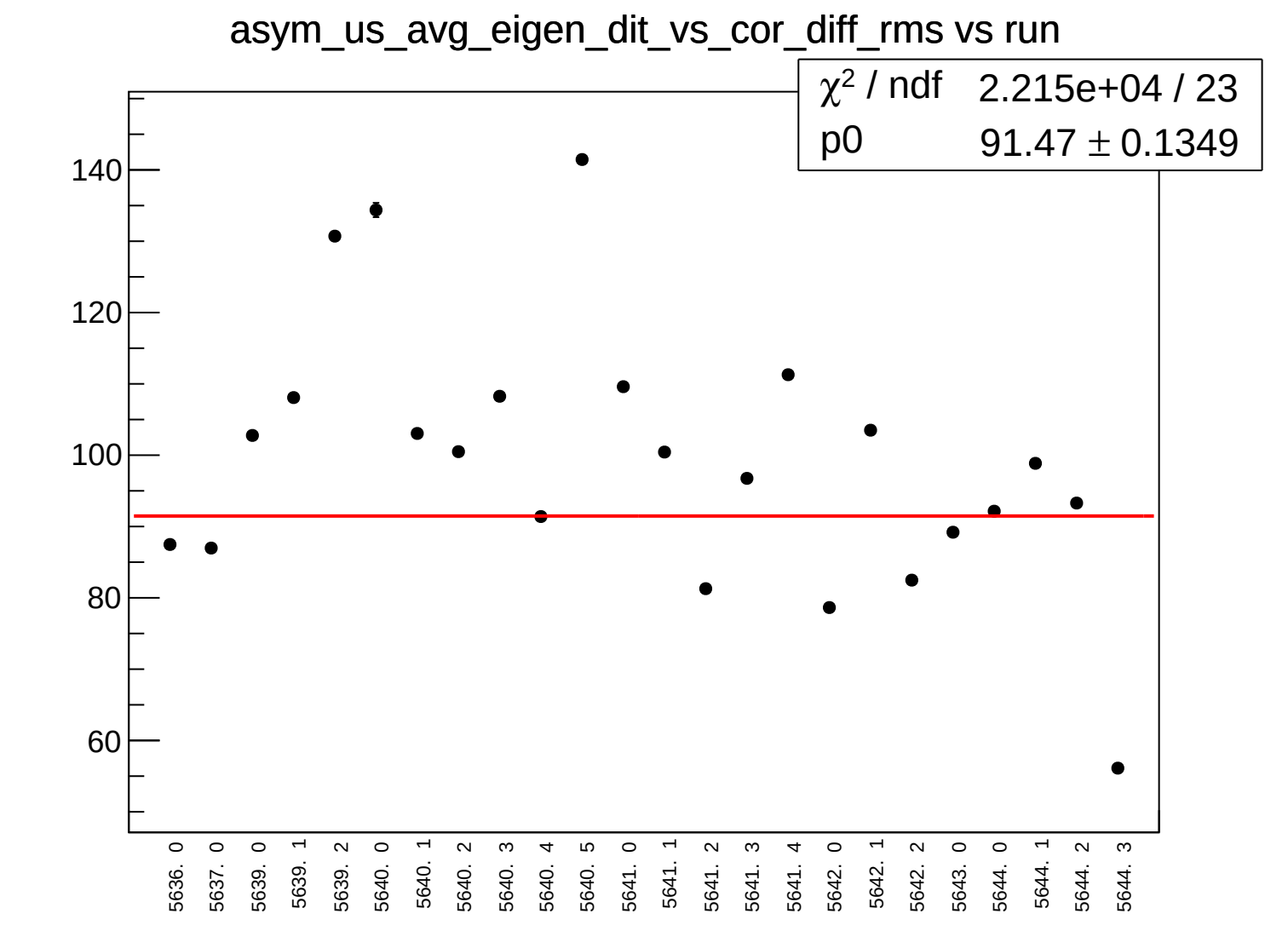

pull
Entries 24
Mean 4756
Std Dev 0
1
0.5
0
−0.5
−1

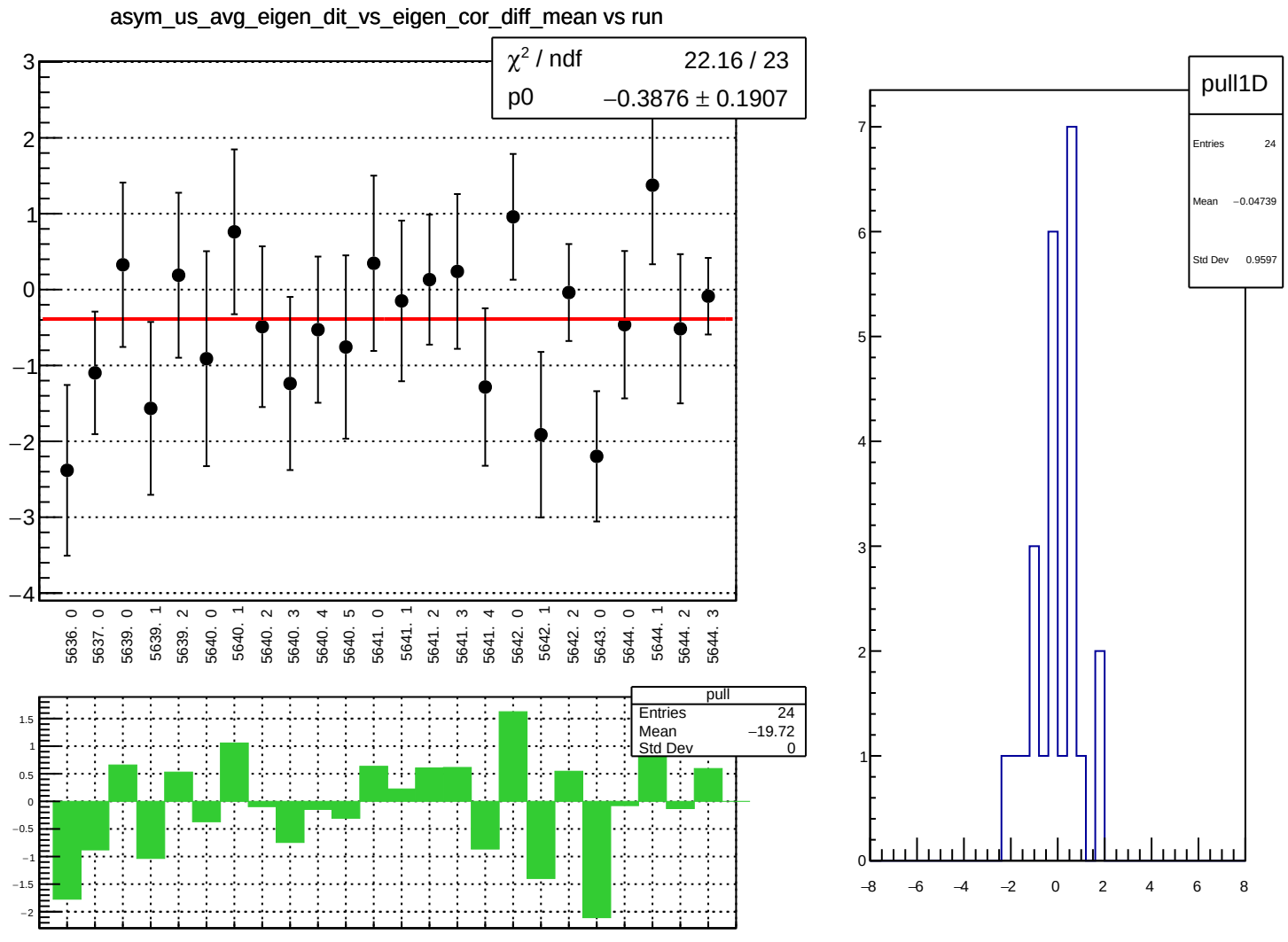

pull1D
Entries 24
Mean −0.0004791
Std Dev 0.6917
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

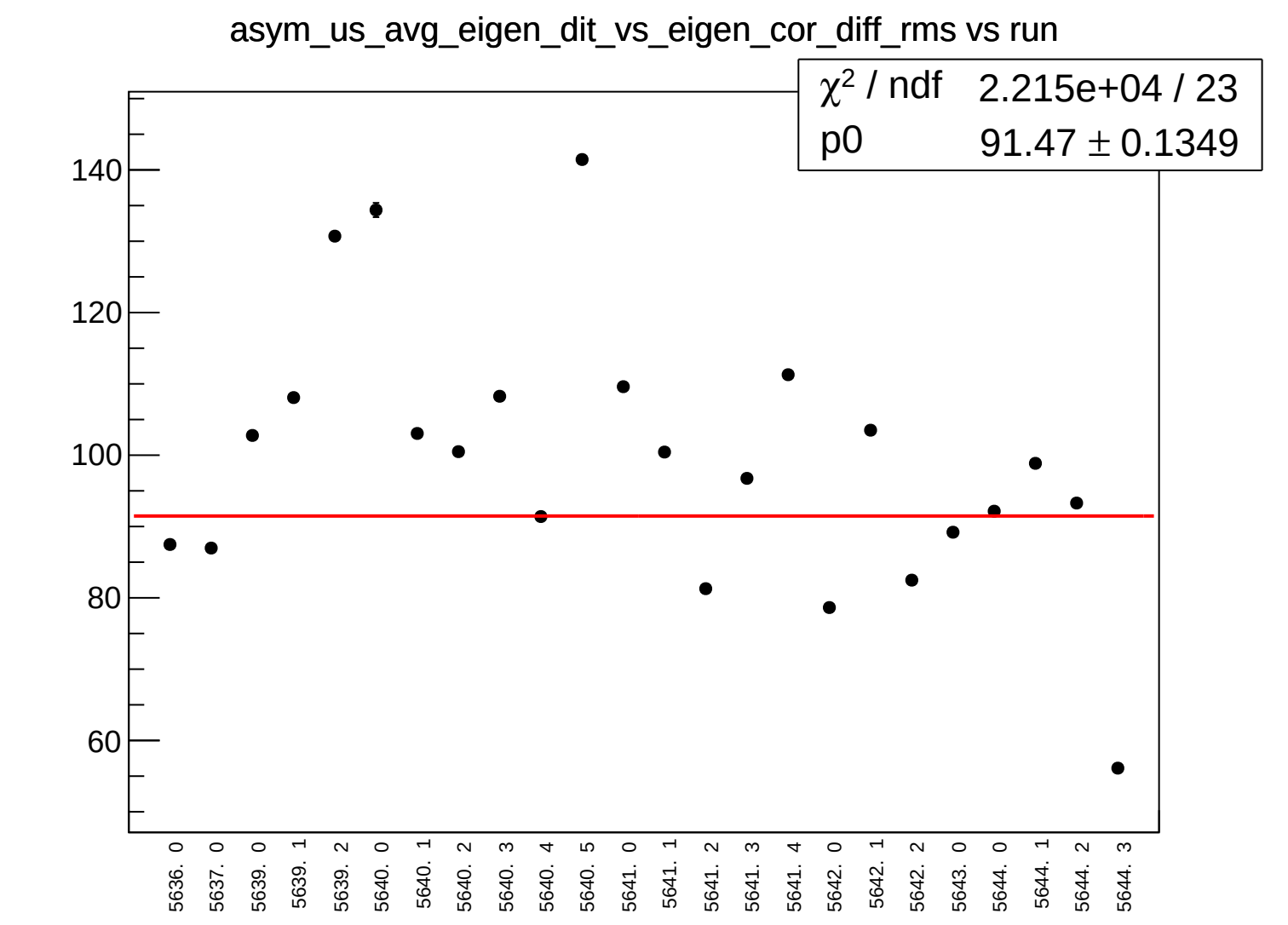

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1284 / 23
p0 0.01508 ± 2.174e–05
0.0175
0.017
0.0165
0.016
0.0155
0.015
0.0145
0.014
0.0135
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 22.16 / 23
p0 −0.3876 ± 0.1907
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −19.72
Std Dev 0

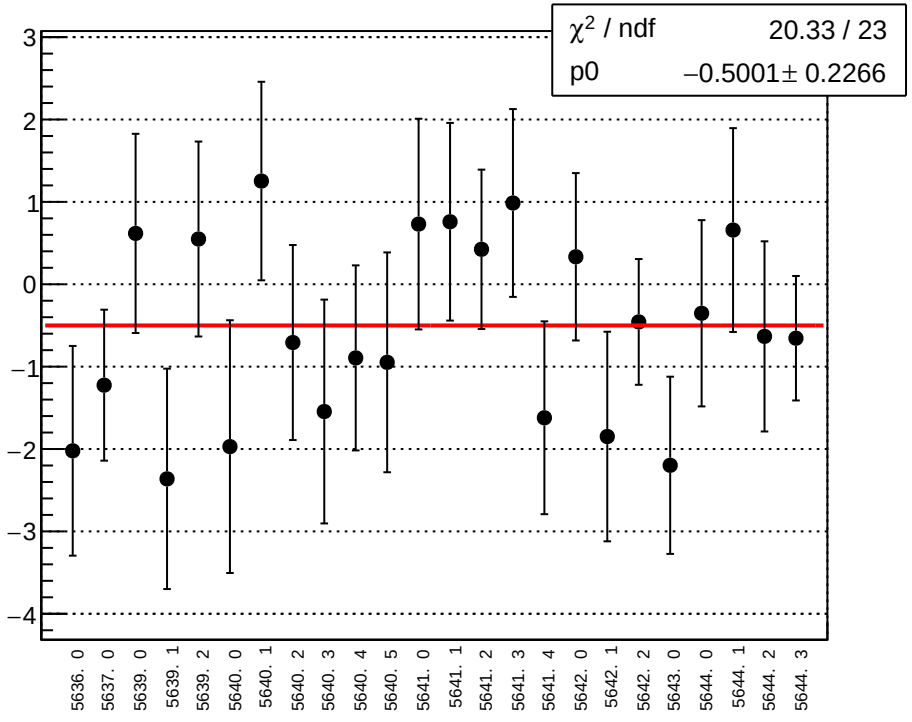

pull1D
Entries 24
Mean −0.04739
Std Dev 0.9597

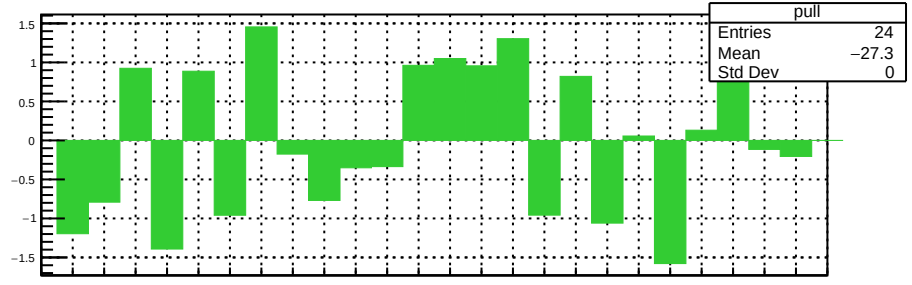

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.215e+04 / 23
p0 91.47 ± 0.1349
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

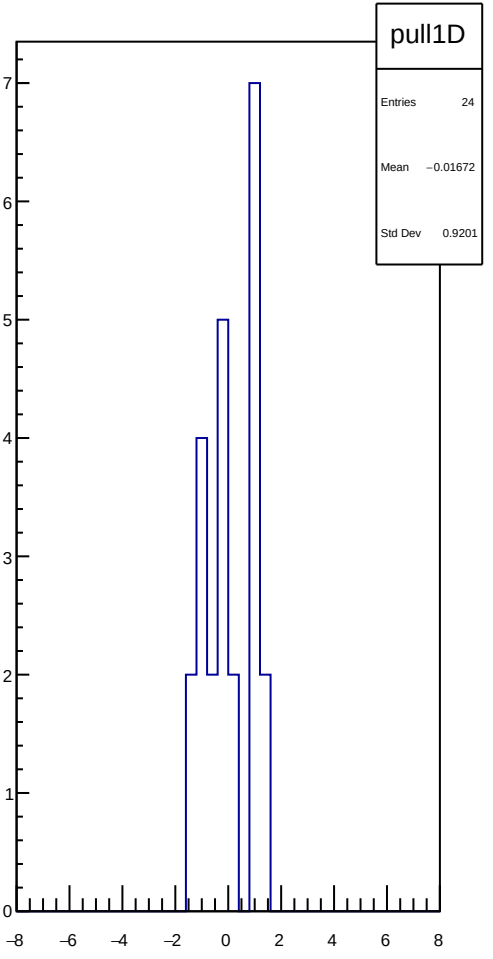

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 22.16 / 23
p0 −0.3876 ± 0.1907
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −19.72
Std Dev 0
pull1D
Entries 24
Mean −0.04739
Std Dev 0.9597

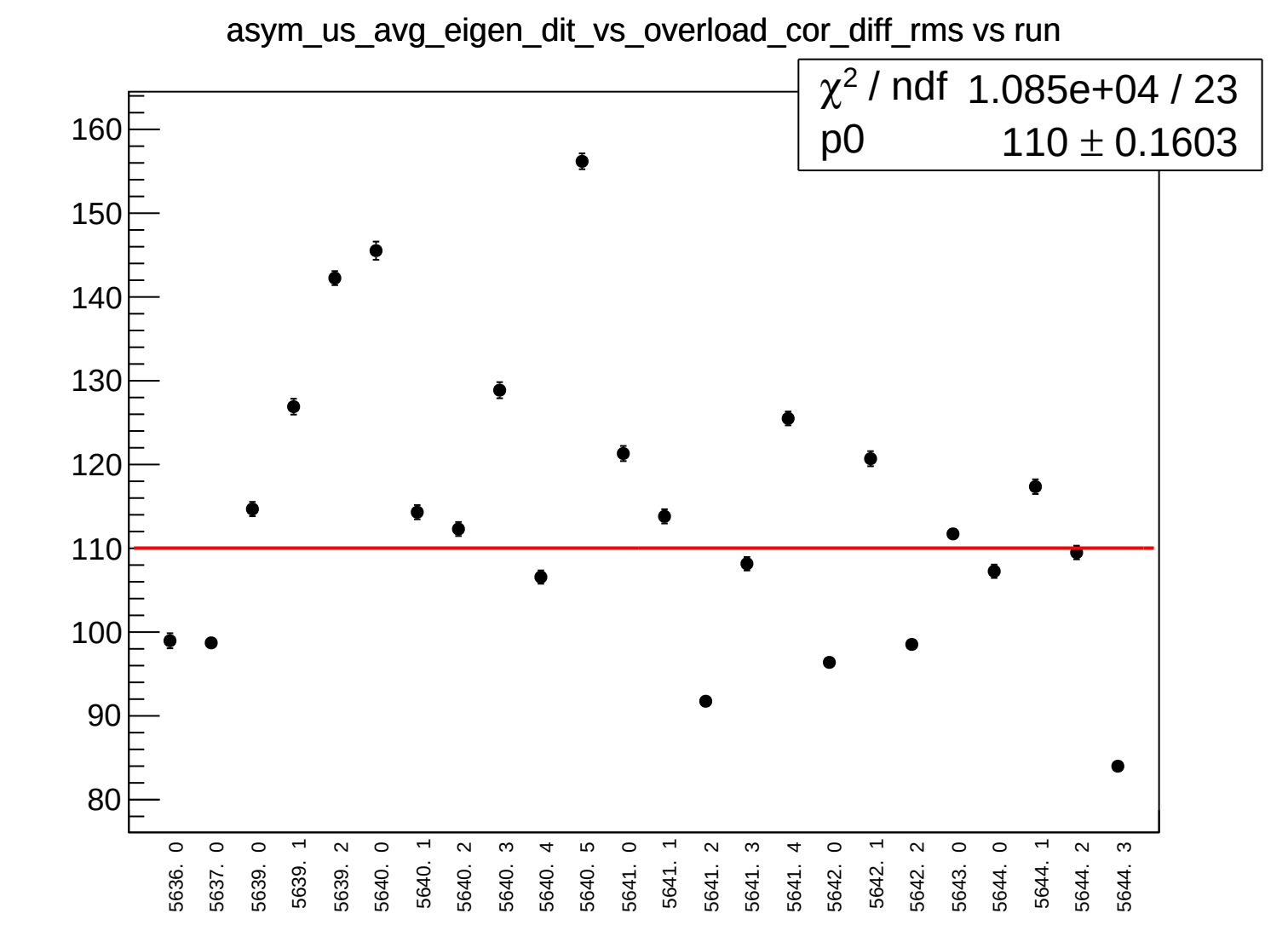

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.215e+04 / 23
p0 91.47 ± 0.1349
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

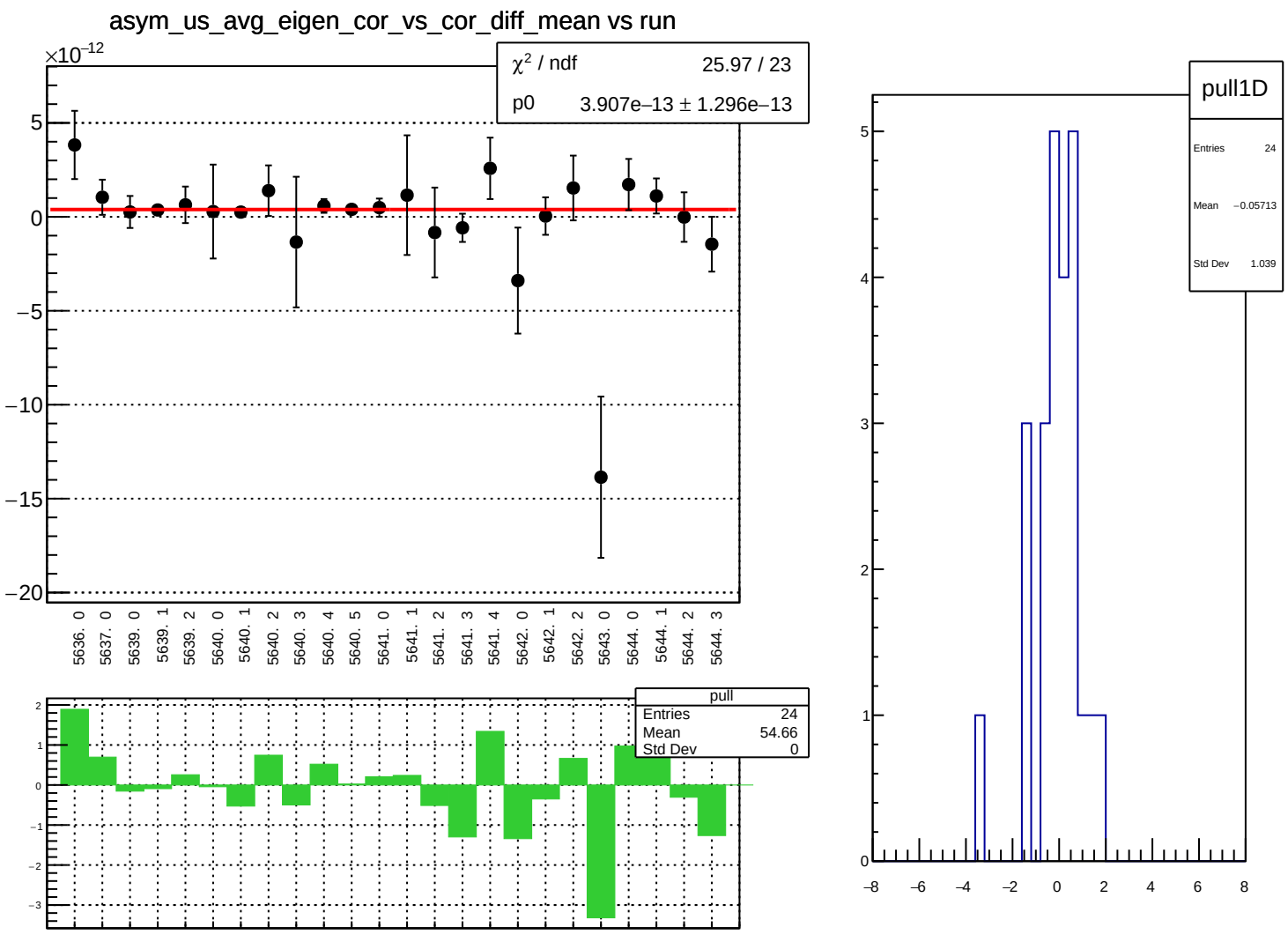
asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run

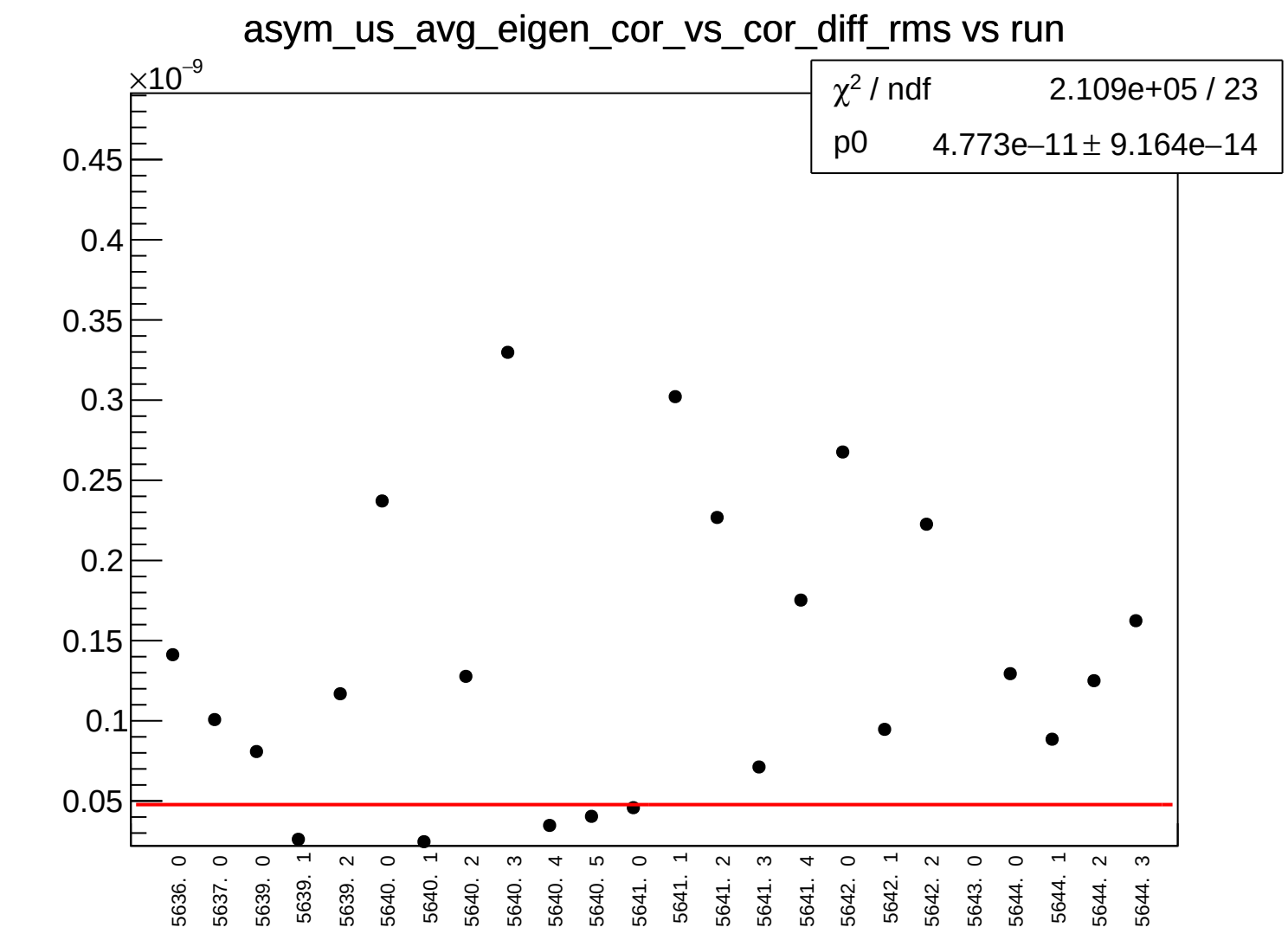


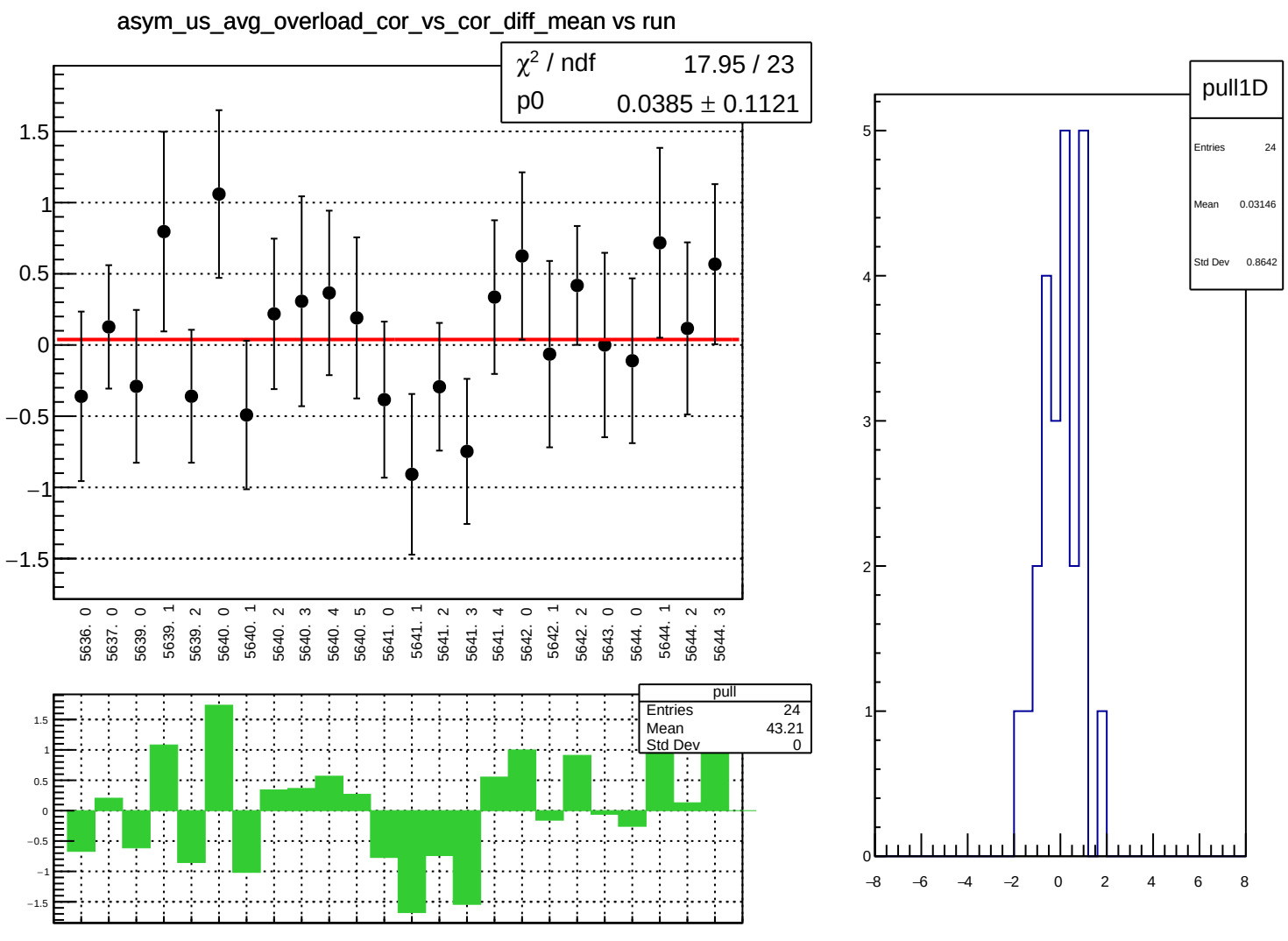


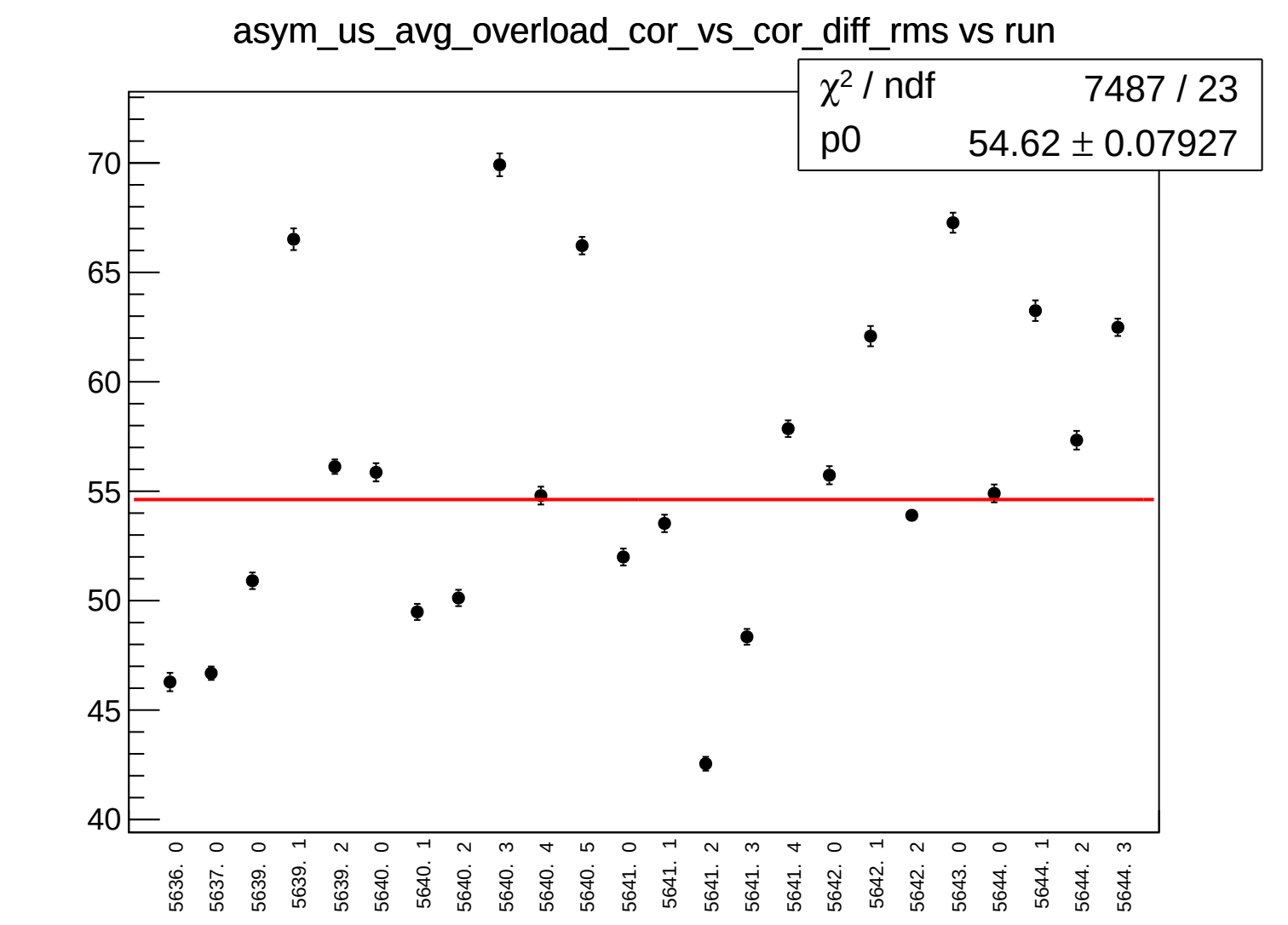


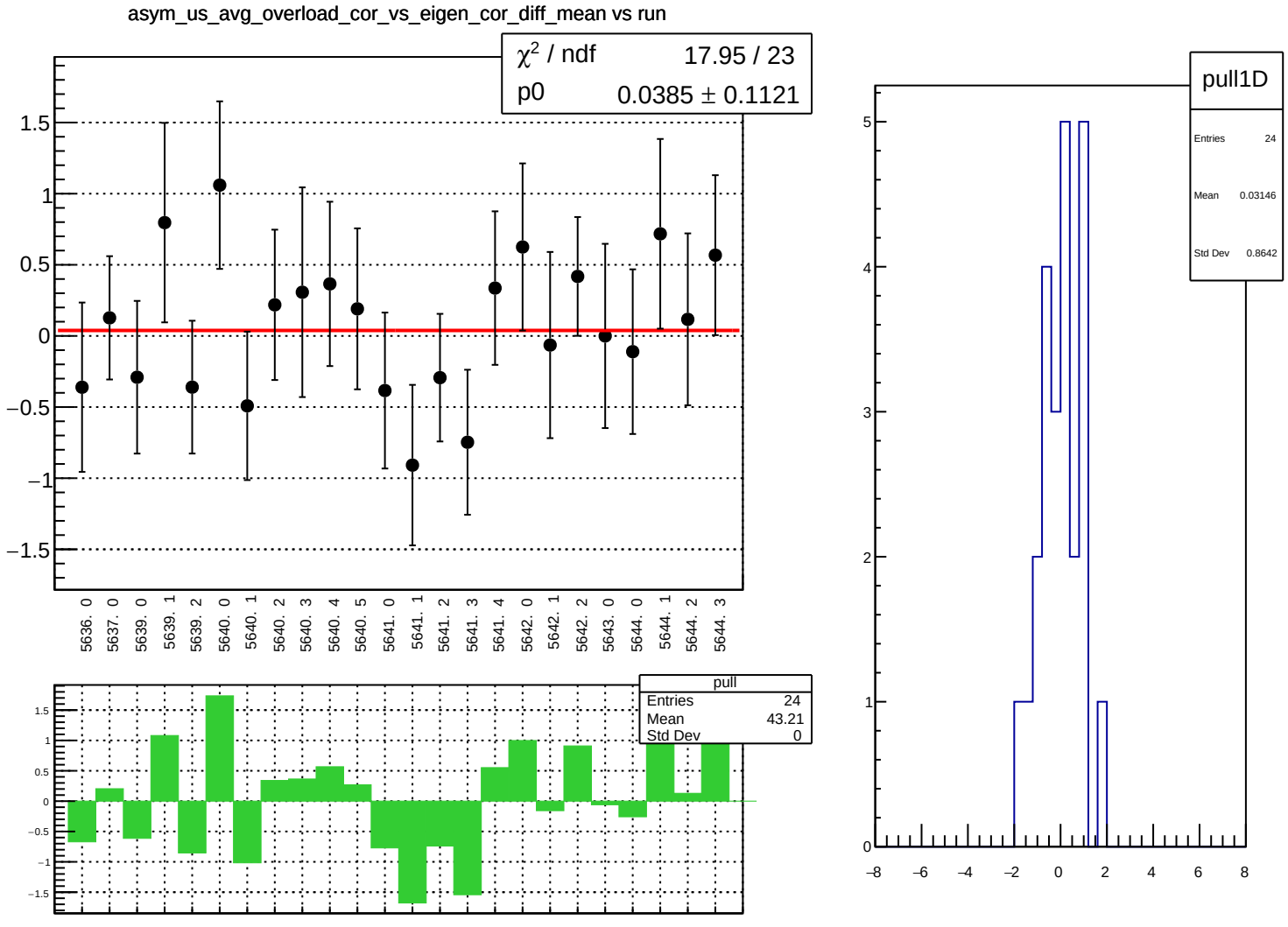

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.085e+04 / 23
p0 110 ± 0.1603
160
150
140
130
120
110
100
90
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

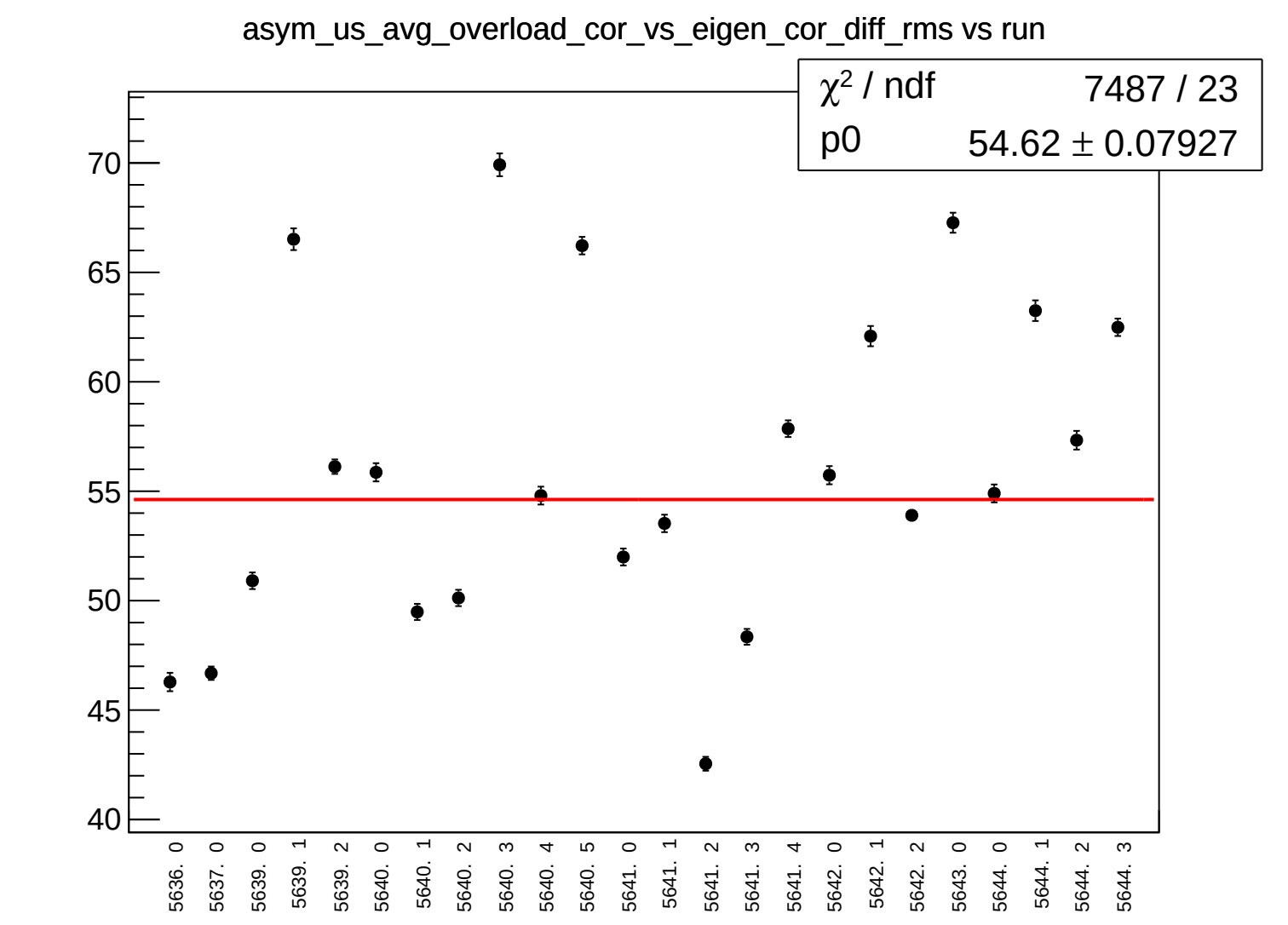

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 25.97 / 23
p0 3.907e−13 ± 1.296e−13
5
0
−5
−10
−15
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 54.66
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean −0.05713
Std Dev 1.039
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

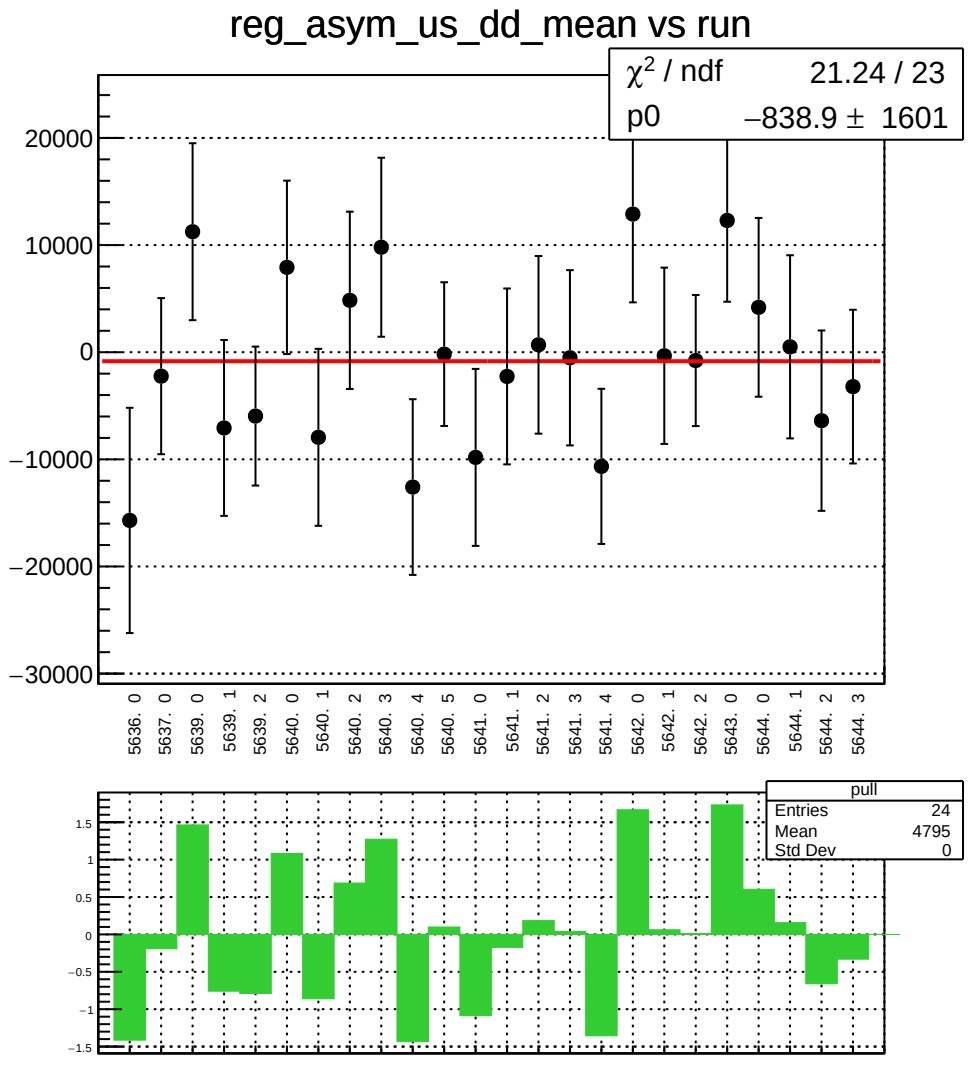

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.109e+05 / 23
p0 4.773e−11 ± 9.164e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

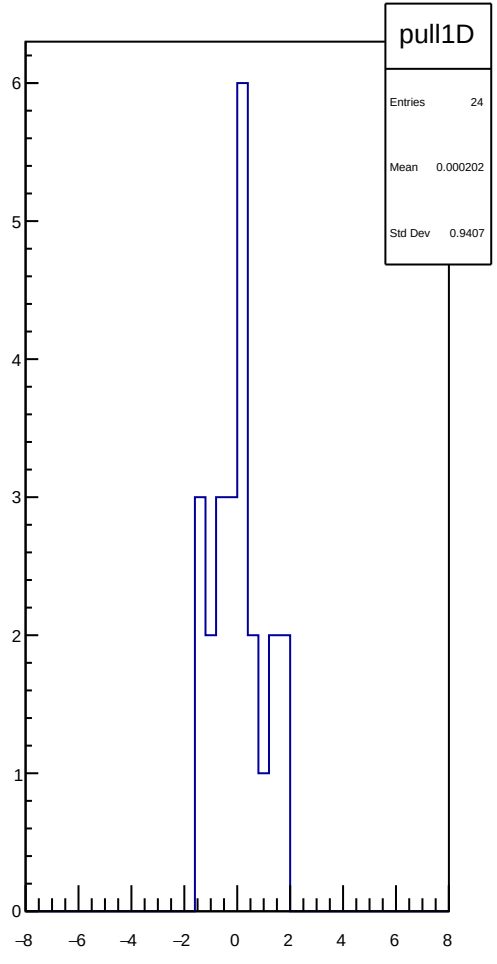

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 17.95 / 23
p0 0.0385 ± 0.1121
1.5
1
0.5
0
−0.5
−1
−1.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 43.21
Std Dev 0
pull1D
Entries 24
Mean 0.03146
Std Dev 0.8642
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

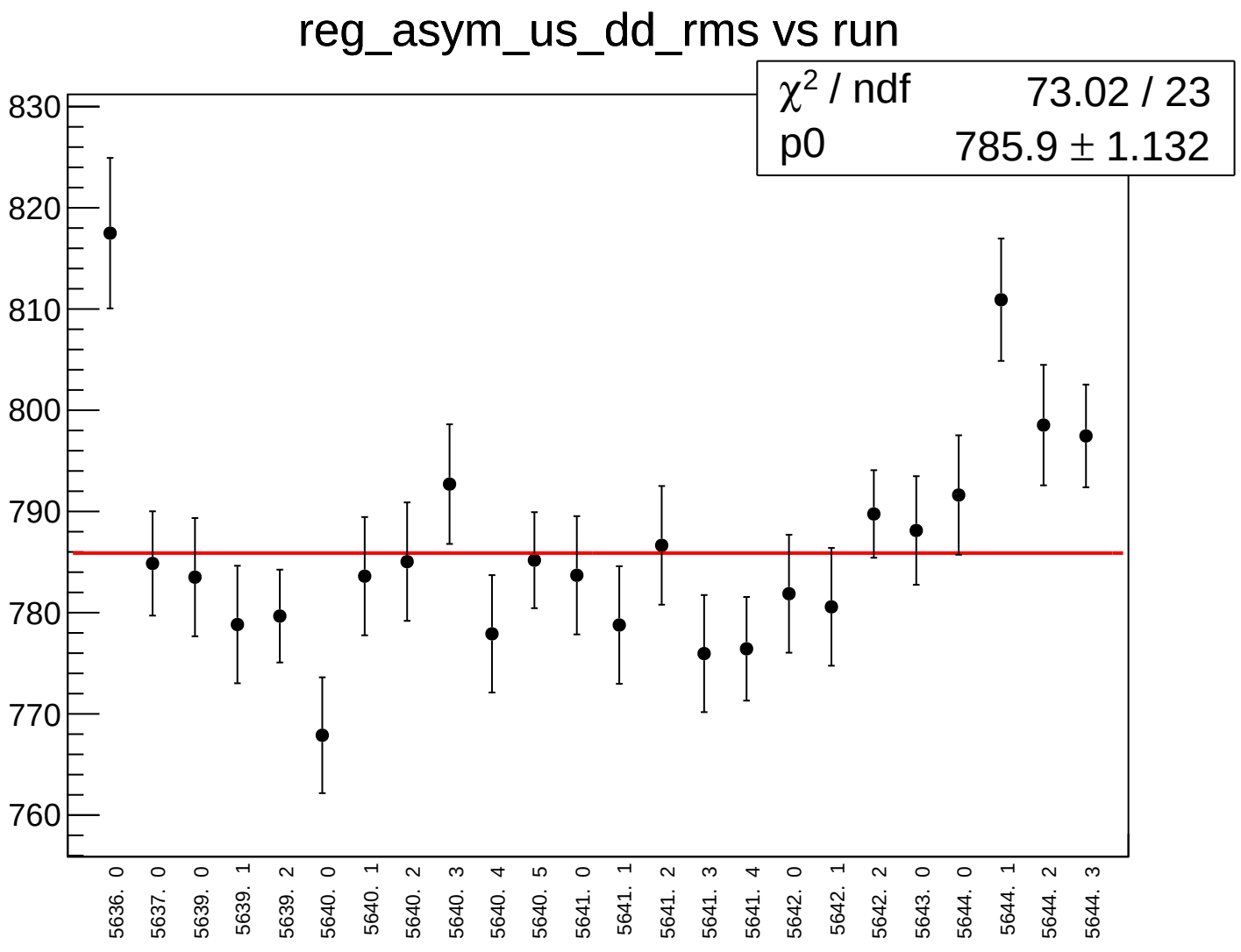

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 7487 / 23
p0 54.62 ± 0.07927
70
65
60
55
50
45
40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

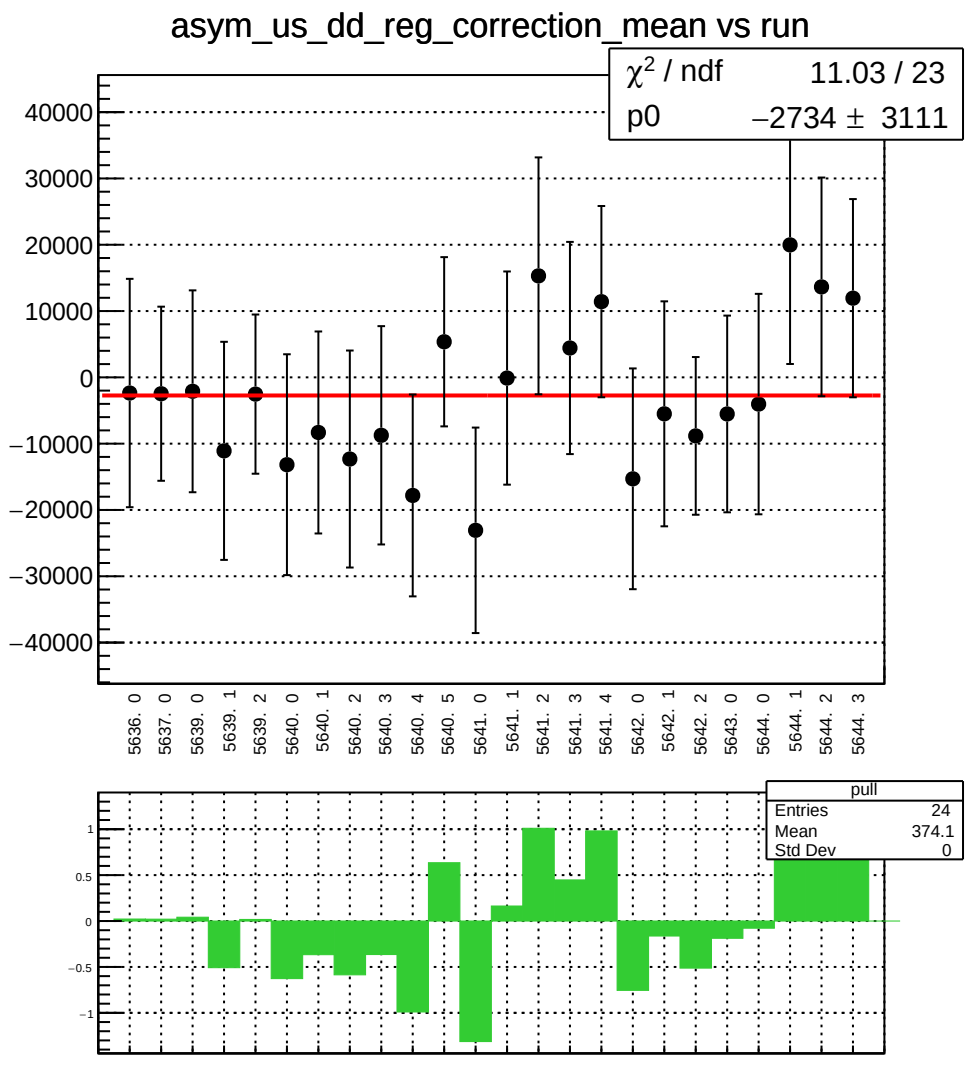

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 17.95 / 23
p0 0.0385 ± 0.1121
1.5
1
0.5
0
−0.5
−1
−1.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 43.21
Std Dev 0
pull1D
Entries 24
Mean 0.03146
Std Dev 0.8642
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

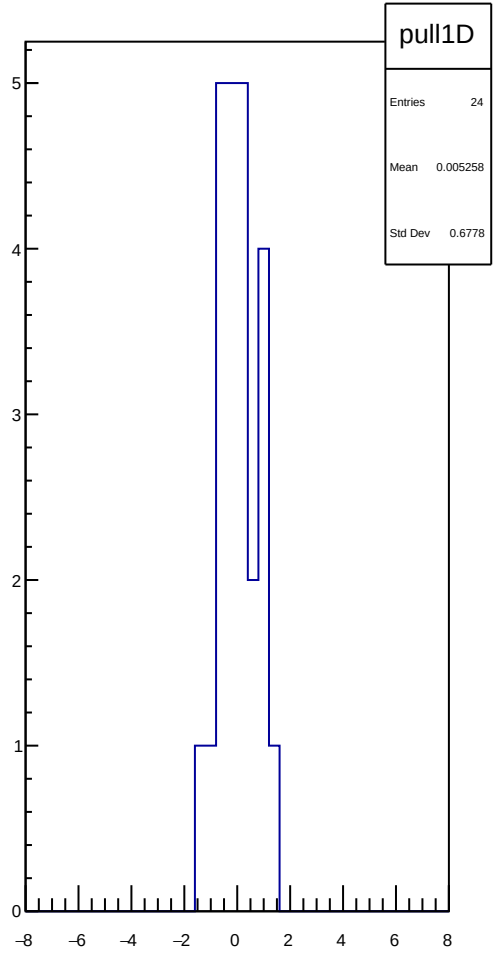

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 7487 / 23
p0 54.62 ± 0.07927
70
65
60
55
50
45
40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

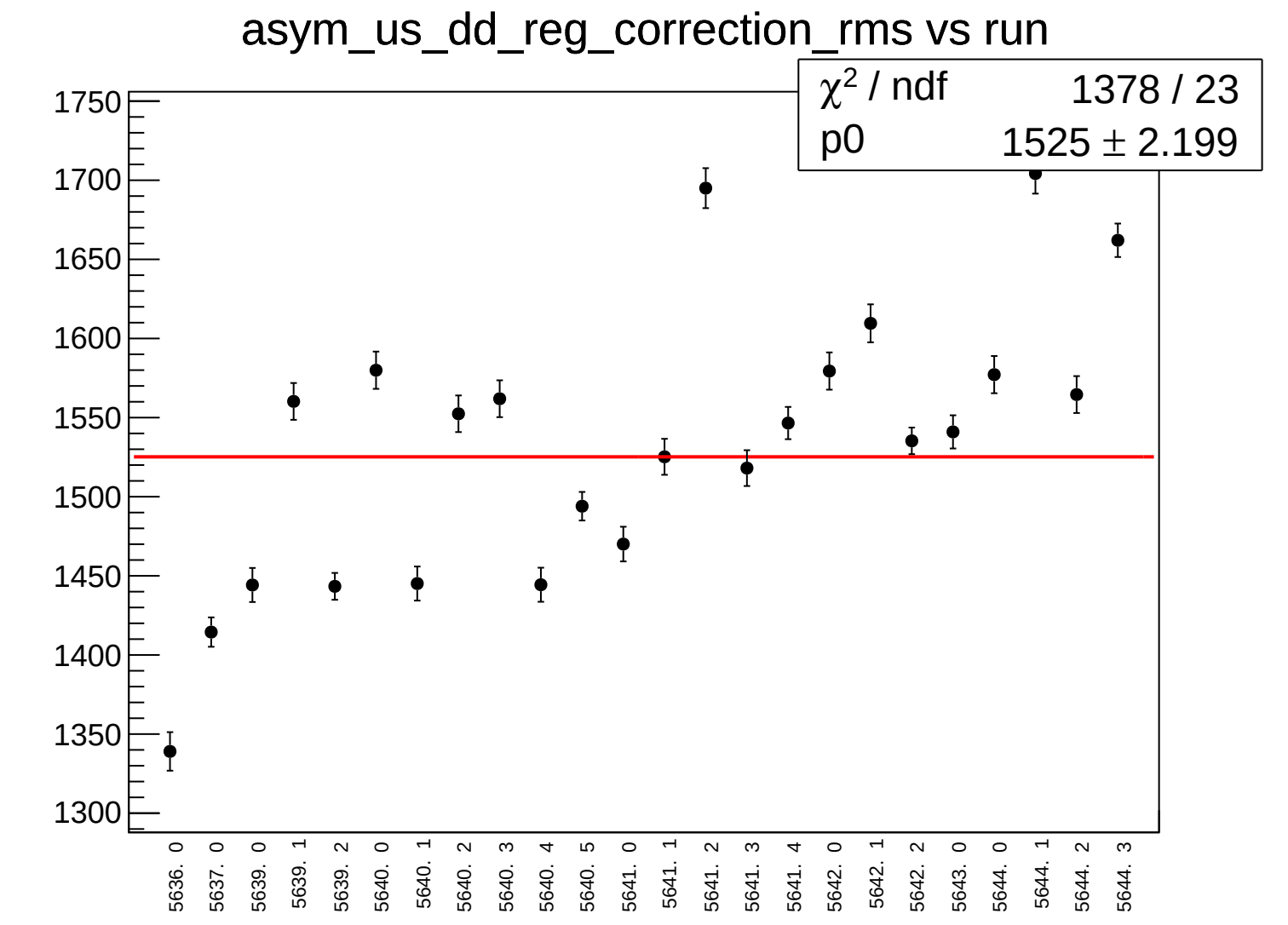

reg_asym_us_dd_mean vs run
χ² / ndf 21.24 / 23
p0 −838.9 ± 1601
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 4795
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

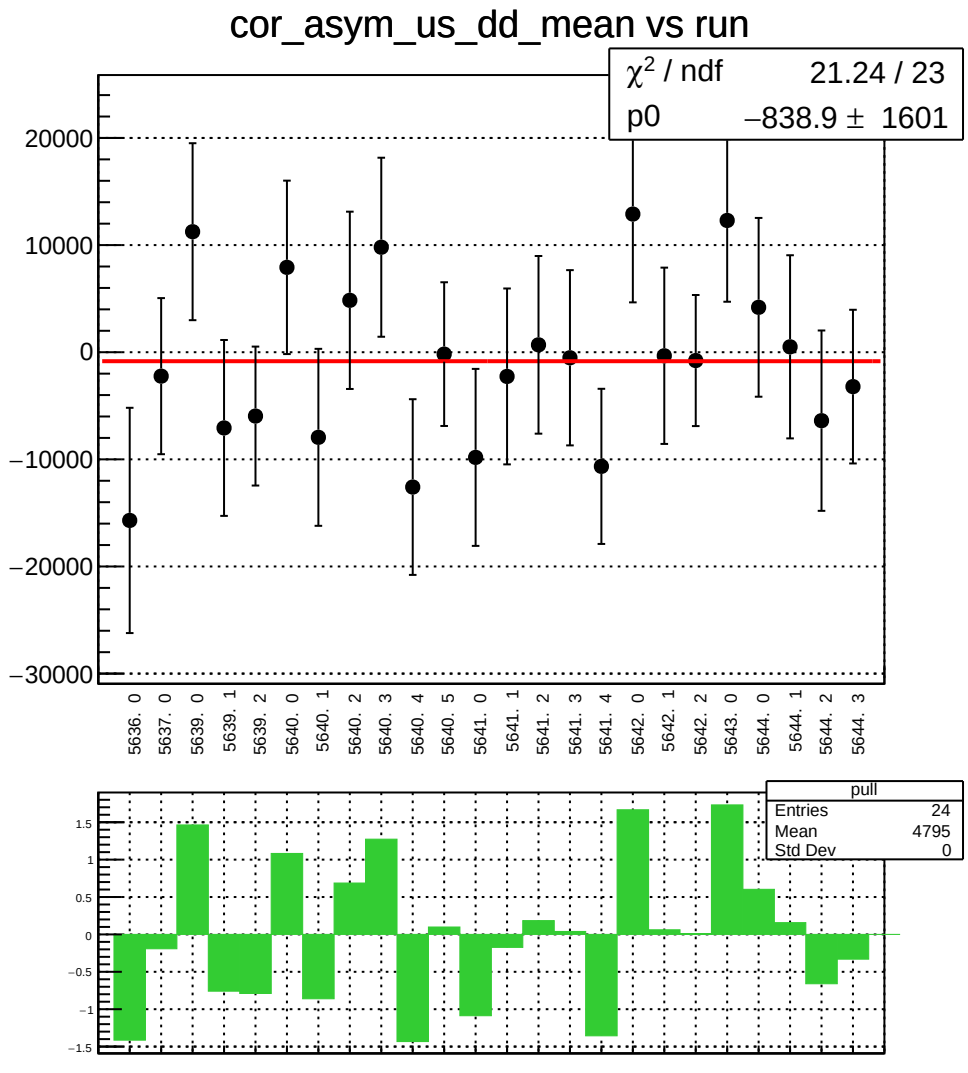

pull1D
Entries 24
Mean 0.000202
Std Dev 0.9407
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

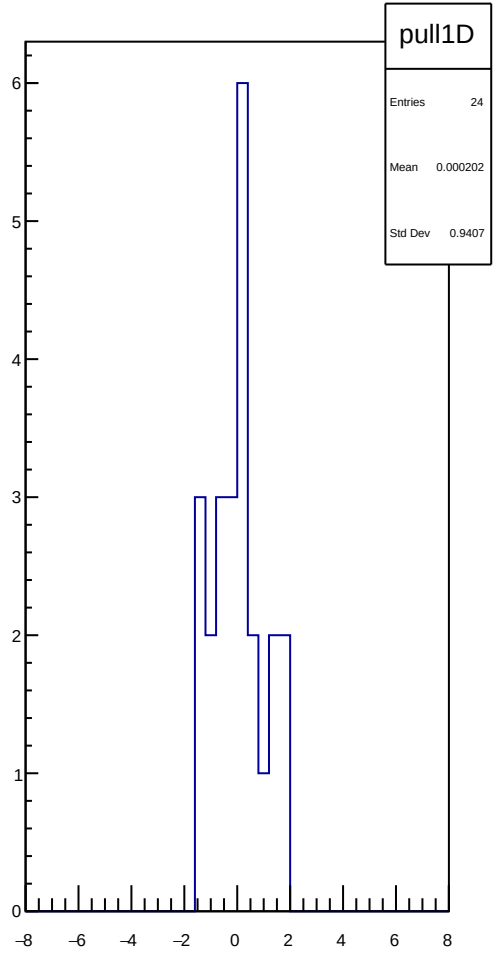

reg_asym_us_dd_rms vs run
χ² / ndf 73.02 / 23
p0 785.9 ± 1.132
830
820
810
800
790
780
770
760
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

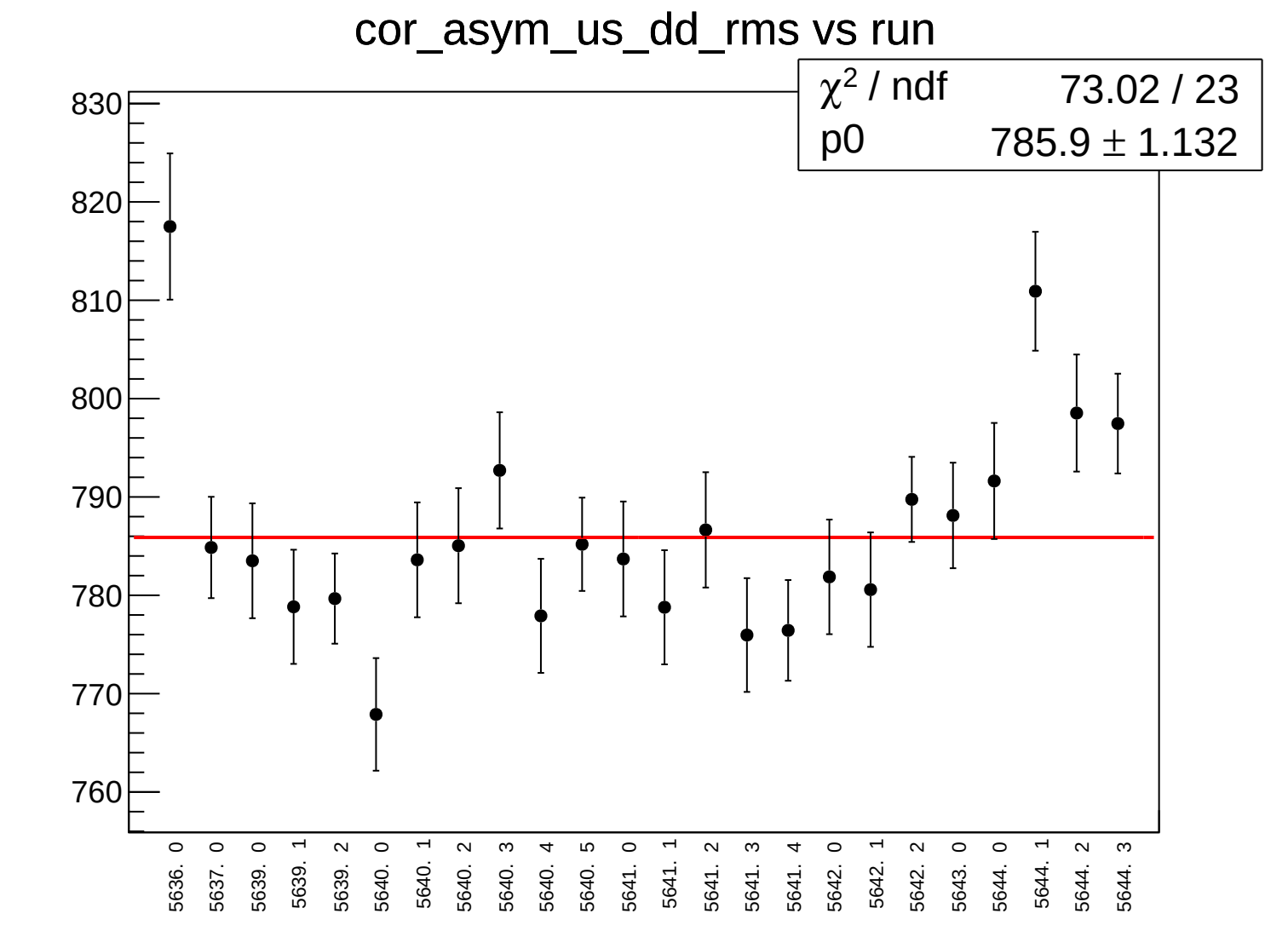

asym_us_dd_reg_correction_mean vs run
χ² / ndf 11.03 / 23
p0 −2734 ± 3111
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 374.1
Std Dev 0
1
0.5
0
−0.5
−1

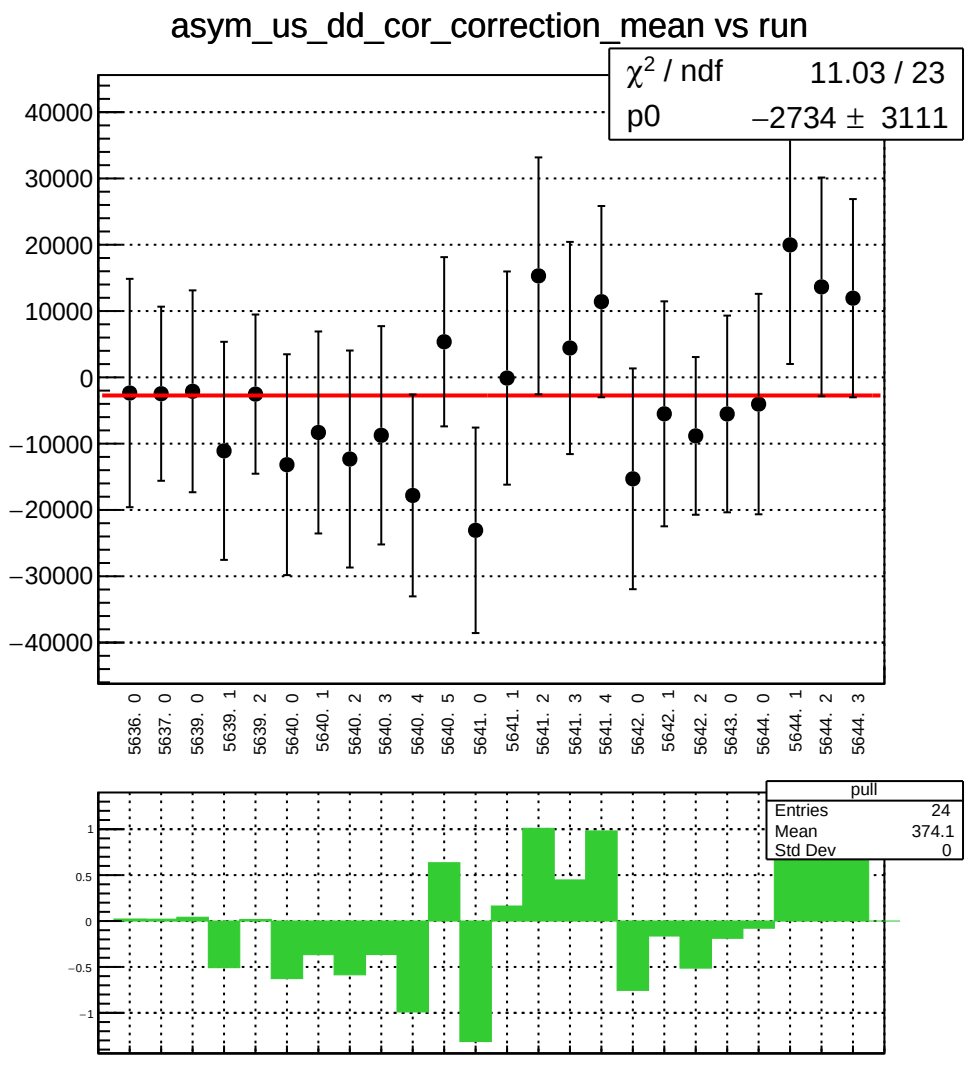

pull1D
Entries 24
Mean 0.005258
Std Dev 0.6778
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

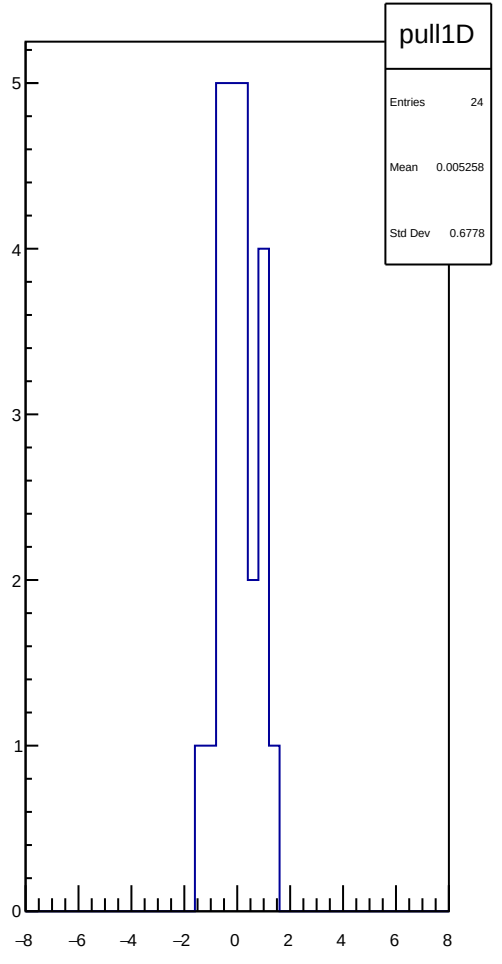

asym_us_dd_reg_correction_rms vs run
χ² / ndf 1378 / 23
p0 1525 ± 2.199
1750
1700
1650
1600
1550
1500
1450
1400
1350
1300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

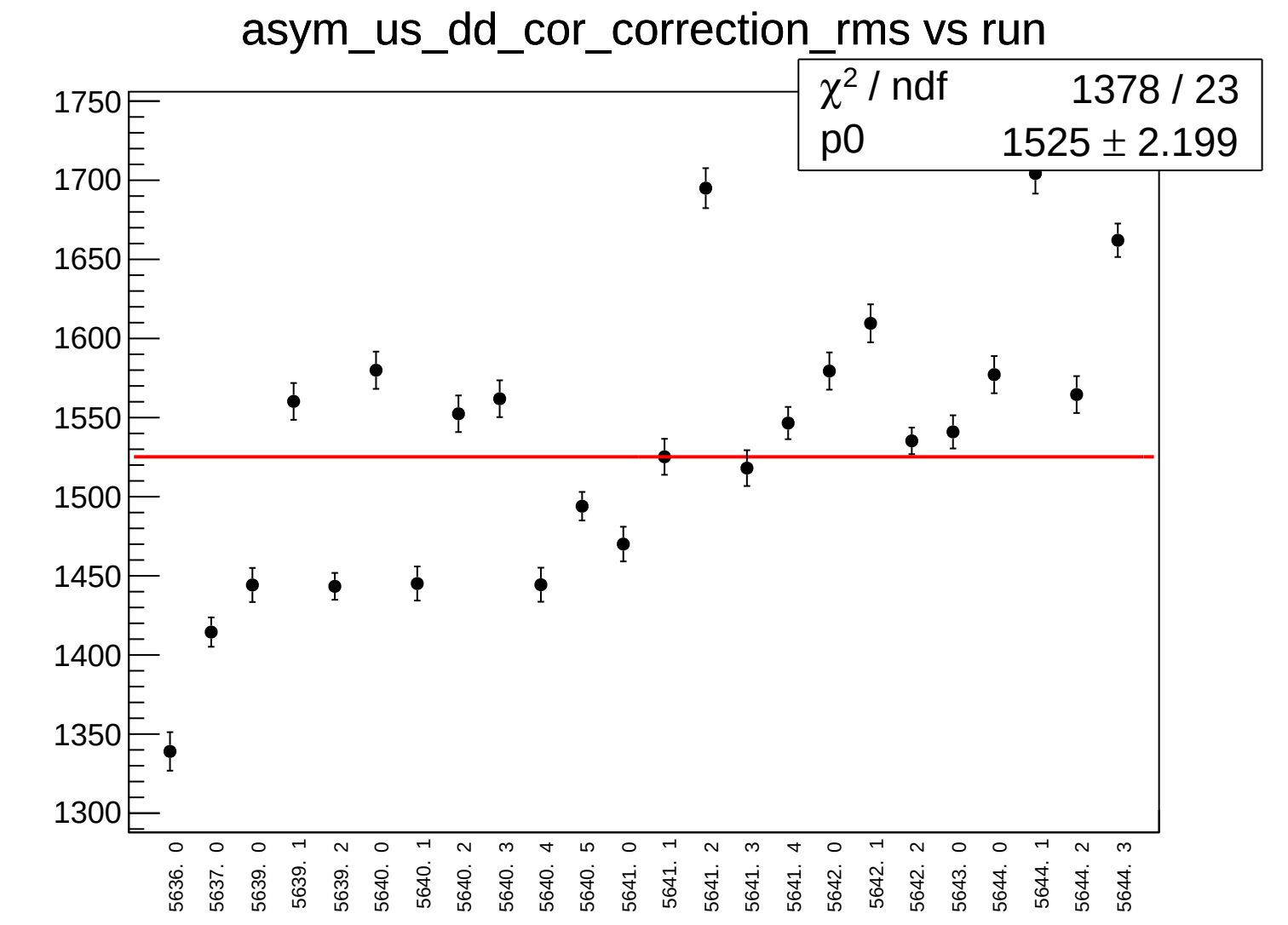

cor_asym_us_dd_mean vs run
χ² / ndf 21.24 / 23
p0 −838.9 ± 1601
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 4795
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

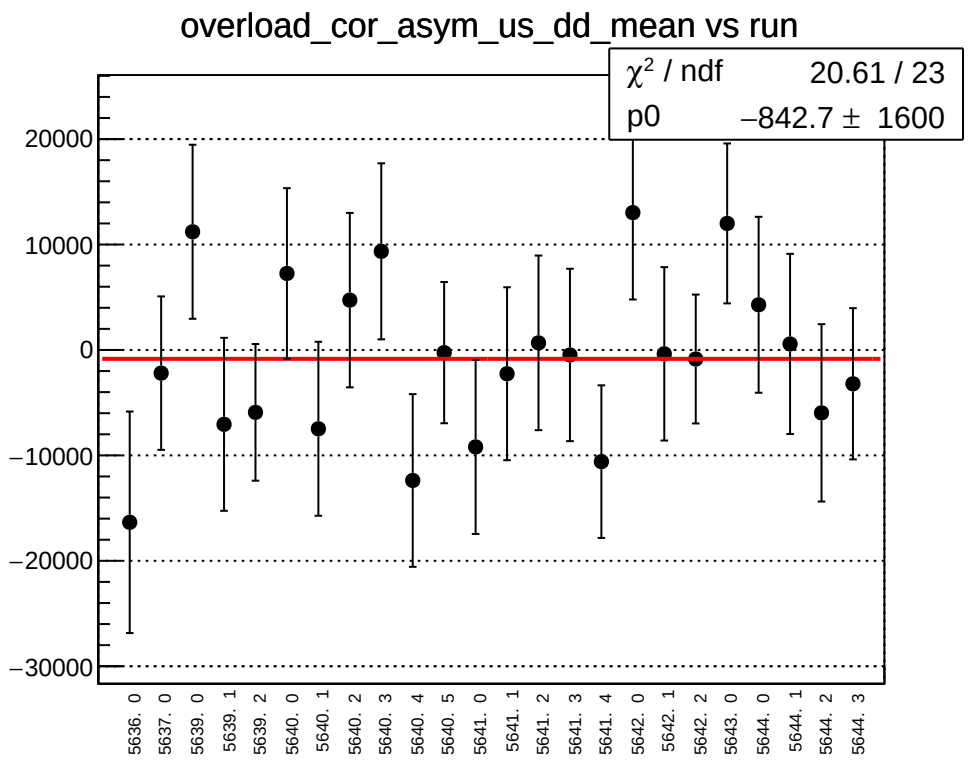

pull1D
Entries 24
Mean 0.000202
Std Dev 0.9407
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

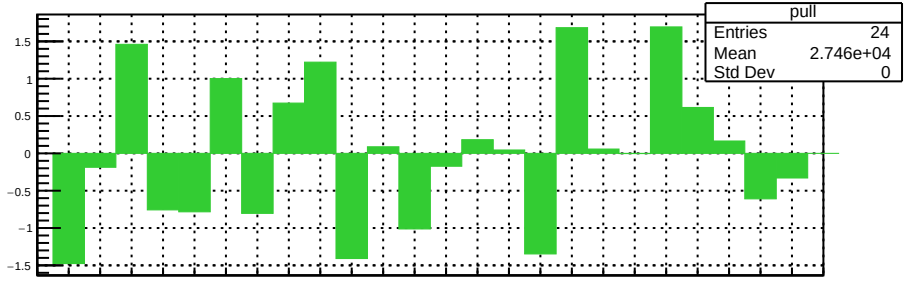

cor_asym_us_dd_rms vs run
χ² / ndf 73.02 / 23
p0 785.9 ± 1.132
830
820
810
800
790
780
770
760
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

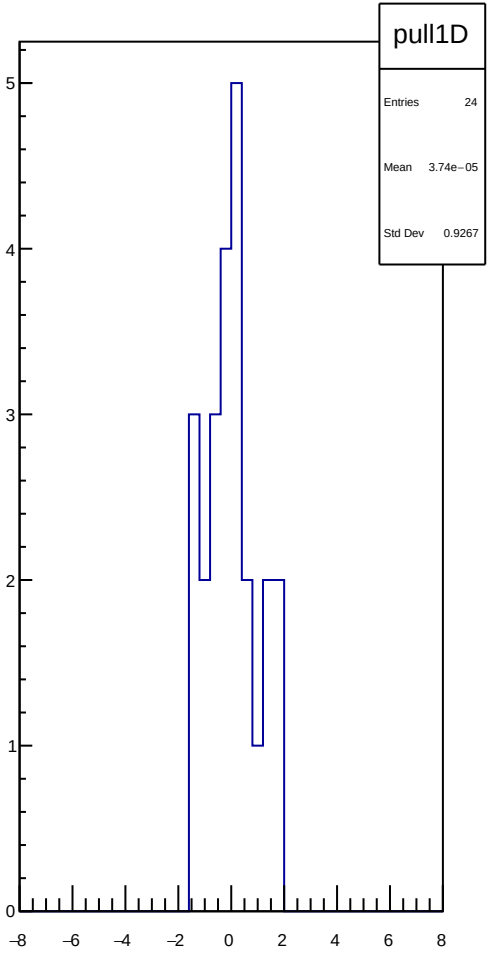

asym_us_dd_cor_correction_mean vs run
χ² / ndf 11.03 / 23
p0 −2734 ± 3111
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 374.1
Std Dev 0
1
0.5
0
−0.5
−1


pull1D
Entries 24
Mean 0.005258
Std Dev 0.6778
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_cor_correction_rms vs run
χ² / ndf 1378 / 23
p0 1525 ± 2.199
1750
1700
1650
1600
1550
1500
1450
1400
1350
1300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


overload_cor_asym_us_dd_mean vs run
χ² / ndf 20.61 / 23
p0 −842.7 ± 1600
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


pull
Entries 24
Mean 2.746e+04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean 3.74e−05
Std Dev 0.9267
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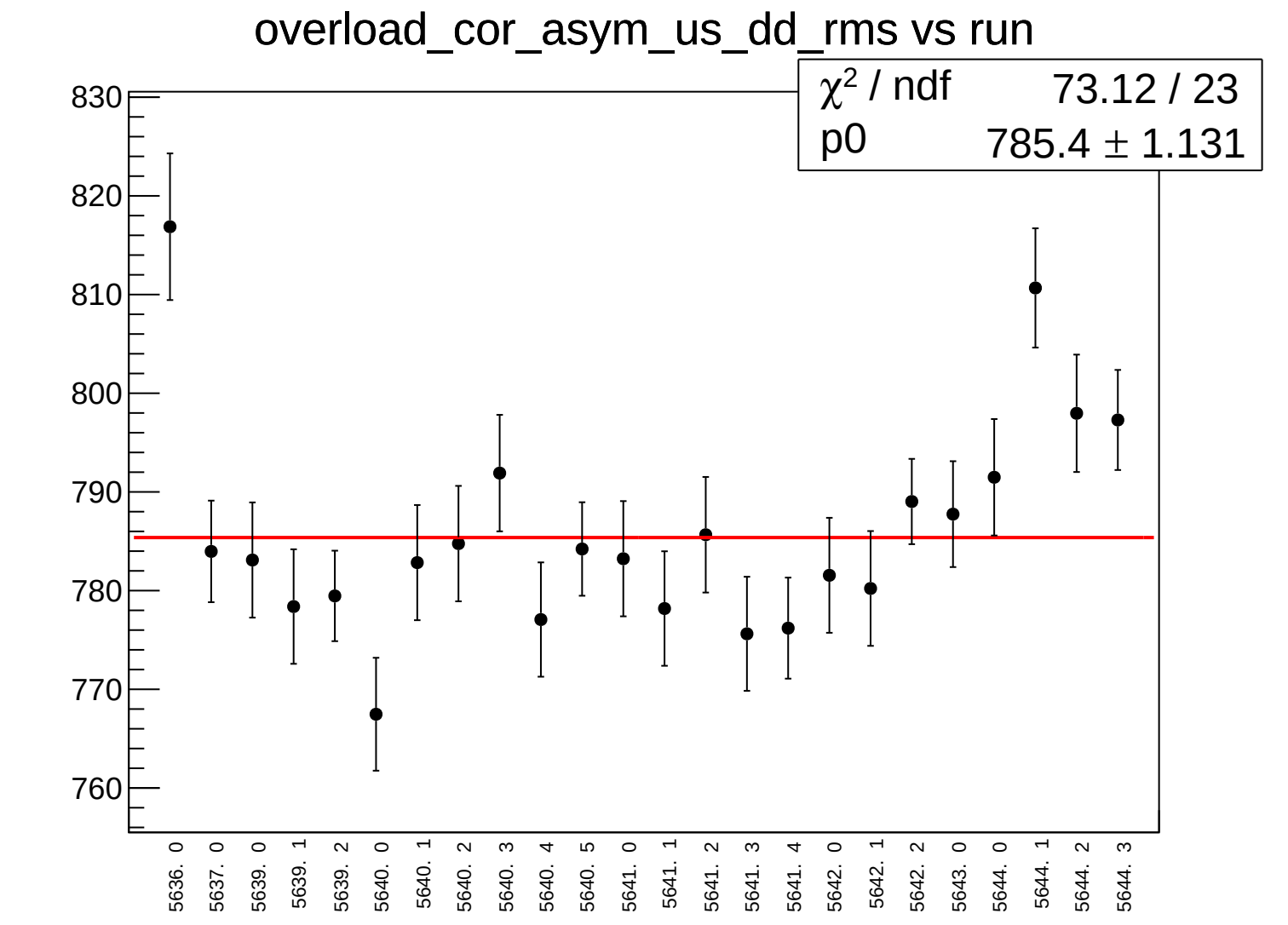
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


overload_cor_asym_us_dd_rms vs run
χ² / ndf 73.12 / 23
p0 785.4 ± 1.131
830
820
810
800
790
780
770
760
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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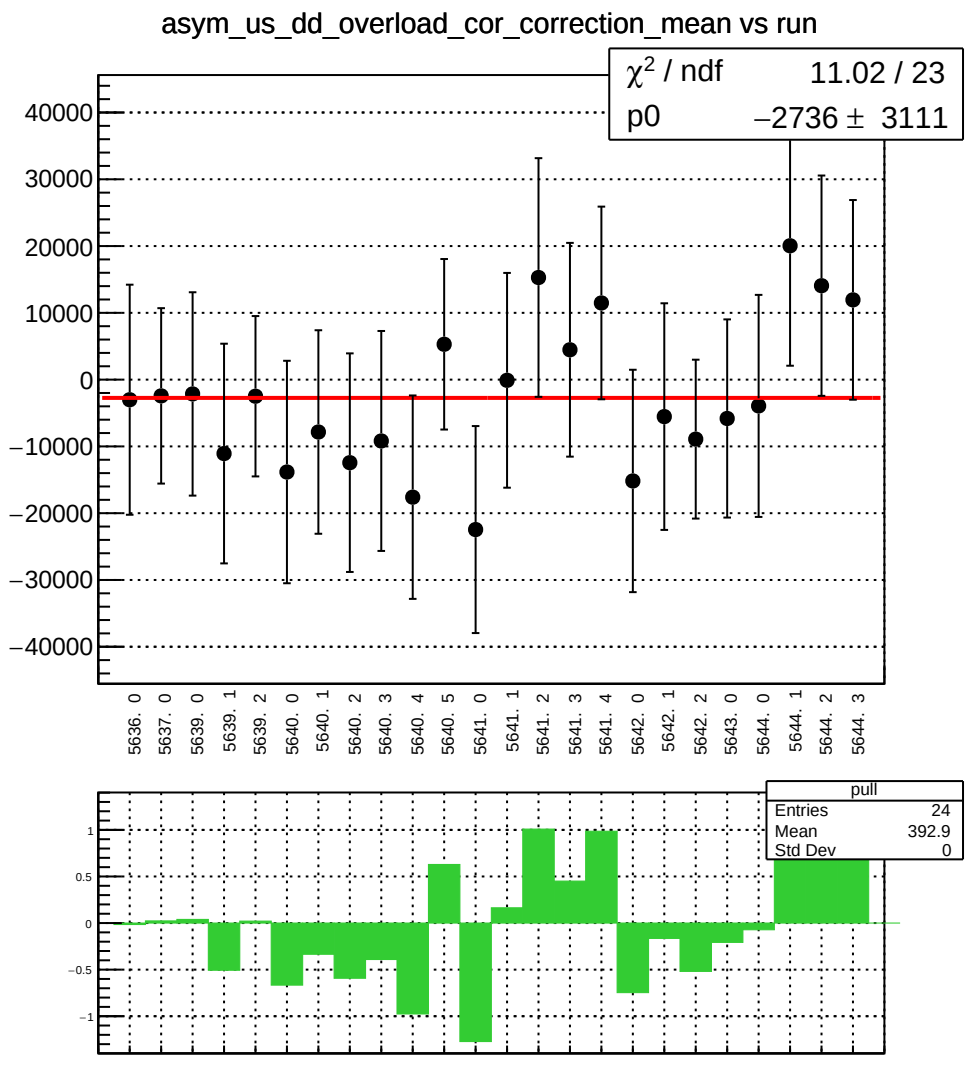
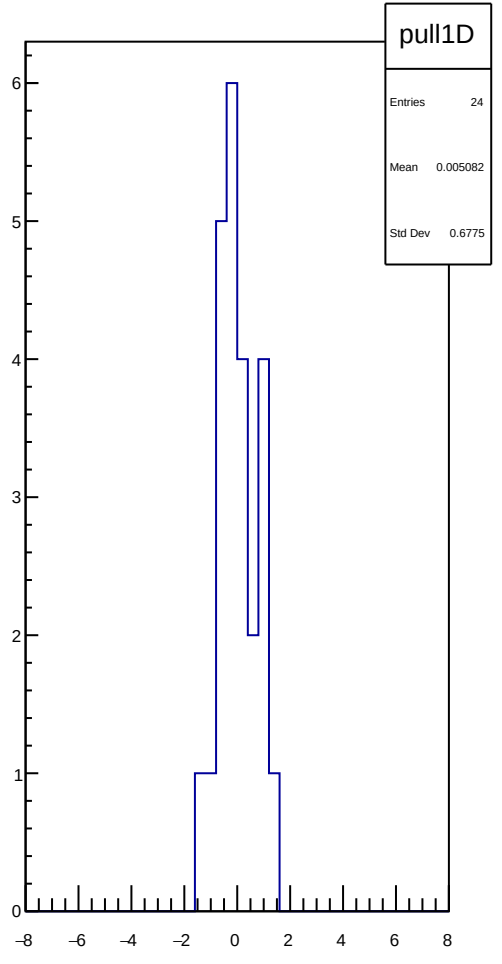
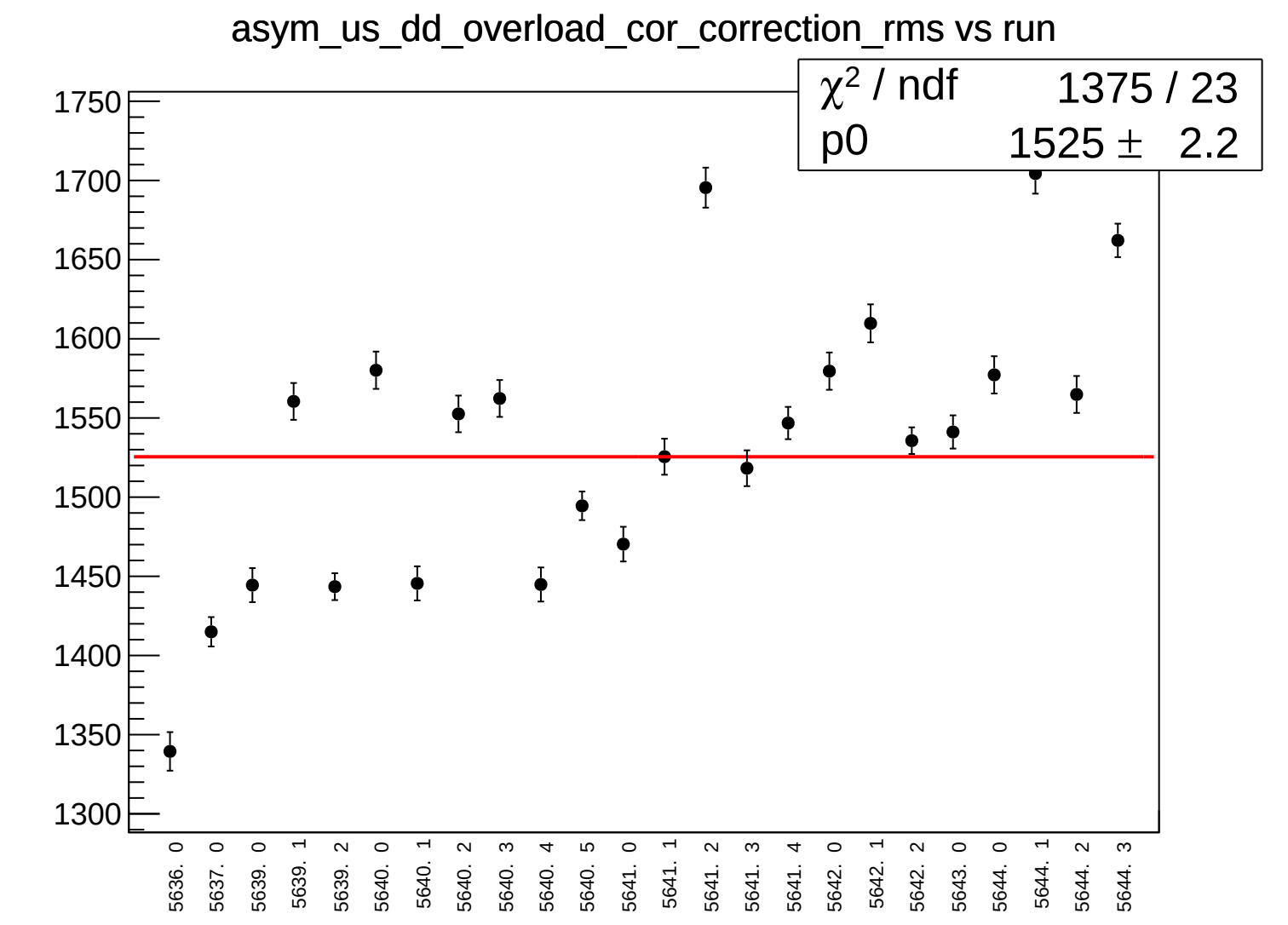
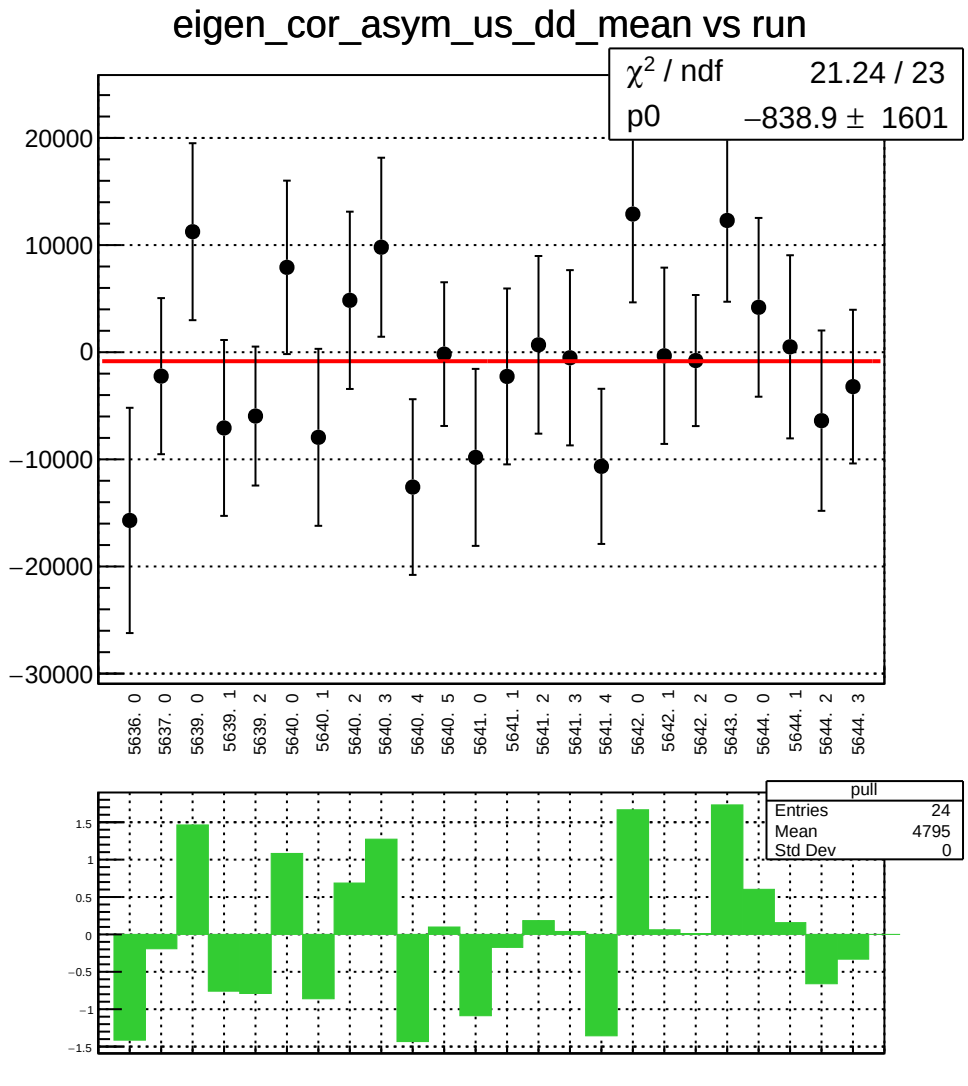
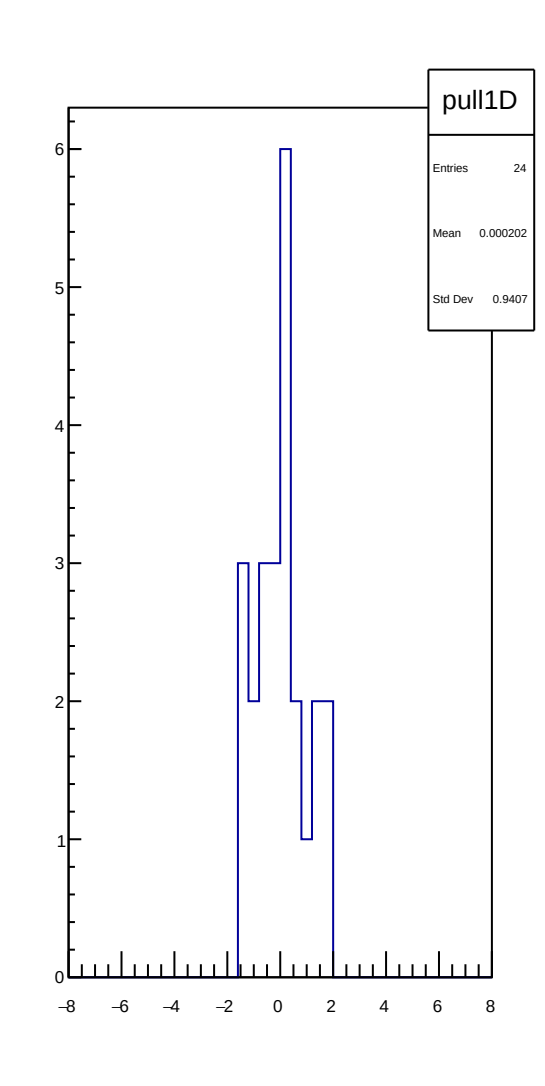
5644. 0
5644. 1
5644. 2
5644. 3

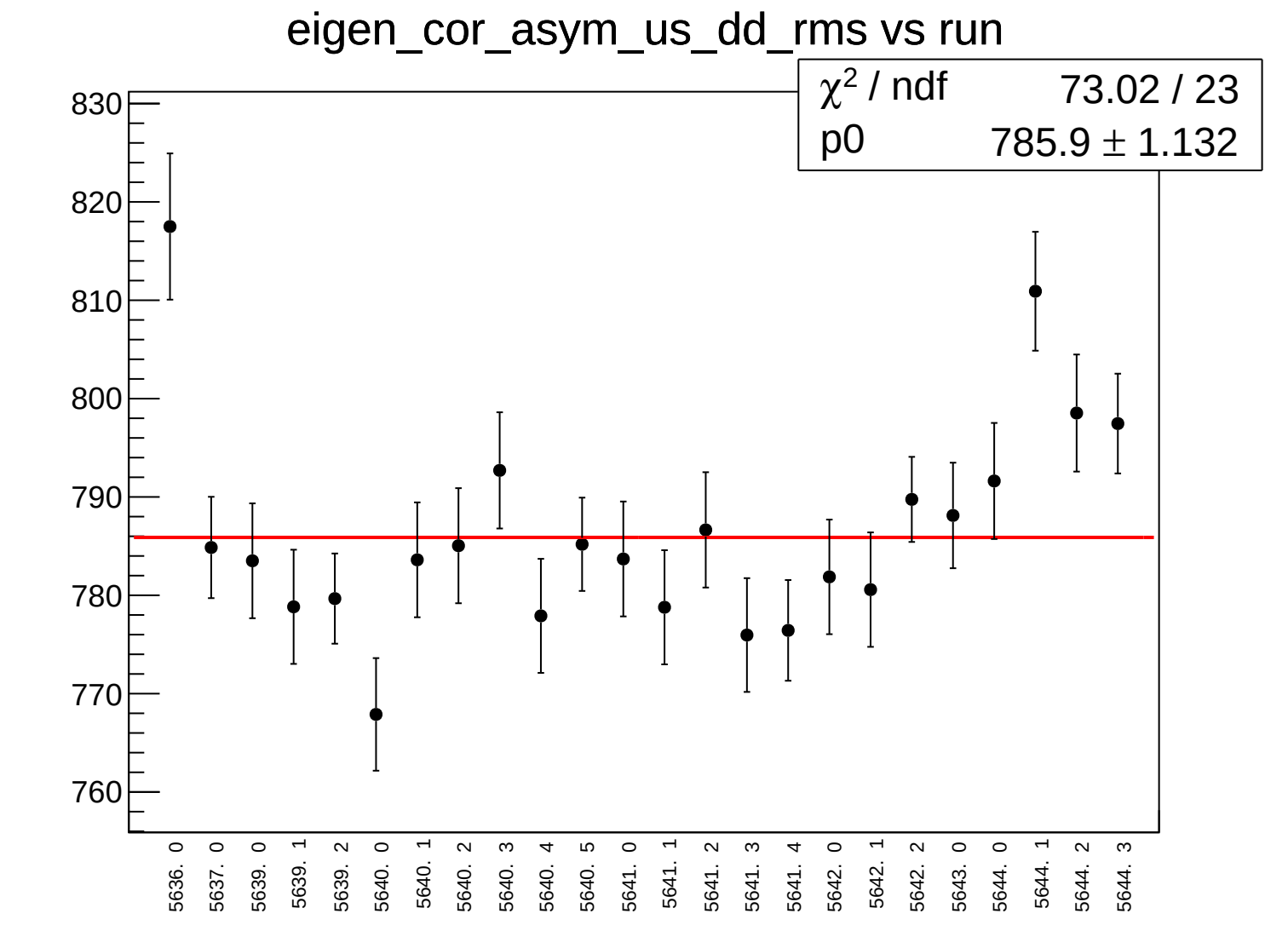

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 11.02 / 23
p0 −2736 ± 3111
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 392.9
Std Dev 0
1
0.5
0
−0.5
−1


pull1D
Entries 24
Mean 0.005082
Std Dev 0.6775
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 1375 / 23
p0 1525 ± 2.2
1750
1700
1650
1600
1550
1500
1450
1400
1350
1300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_cor_asym_us_dd_mean vs run
χ² / ndf 21.24 / 23
p0 −838.9 ± 1601
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 4795
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean 0.000202
Std Dev 0.9407
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_dd_rms vs run
χ² / ndf 73.02 / 23
p0 785.9 ± 1.132
830
820
810
800
790
780
770
760
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
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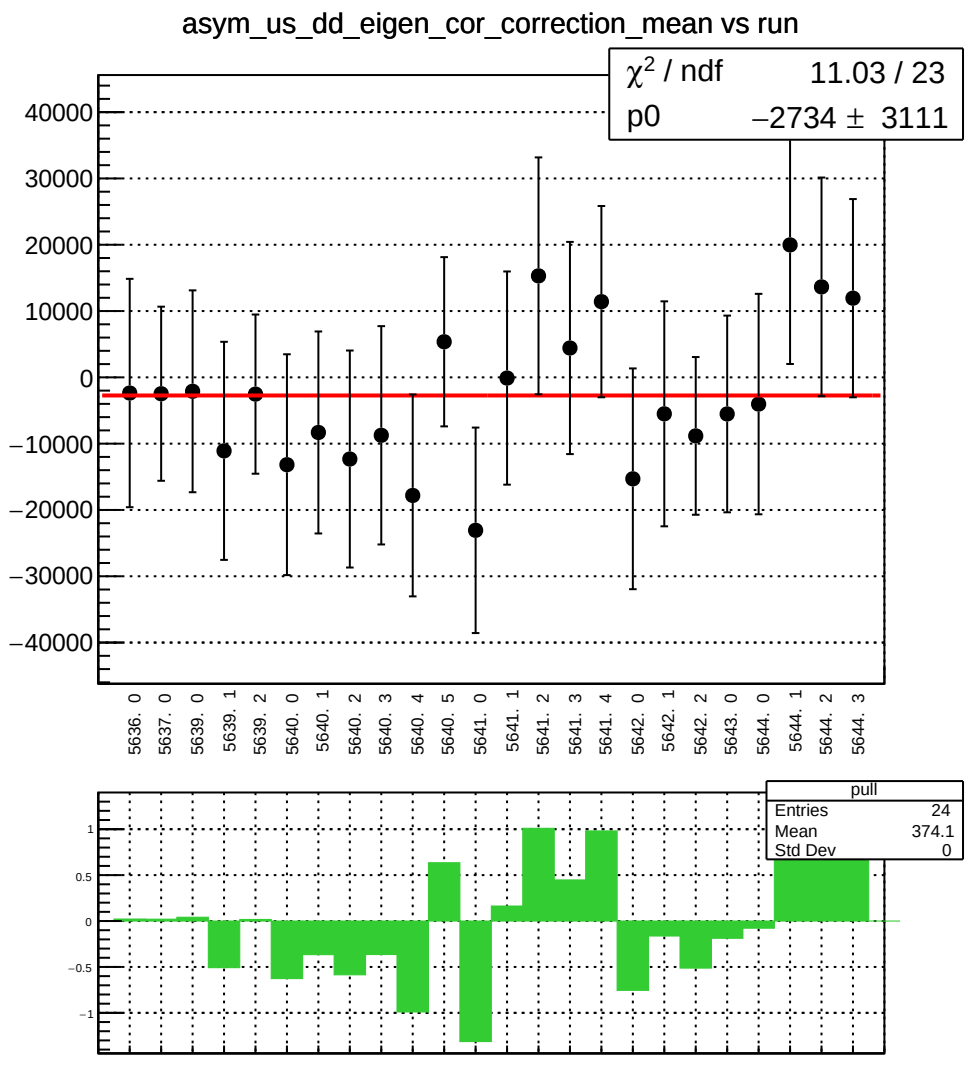
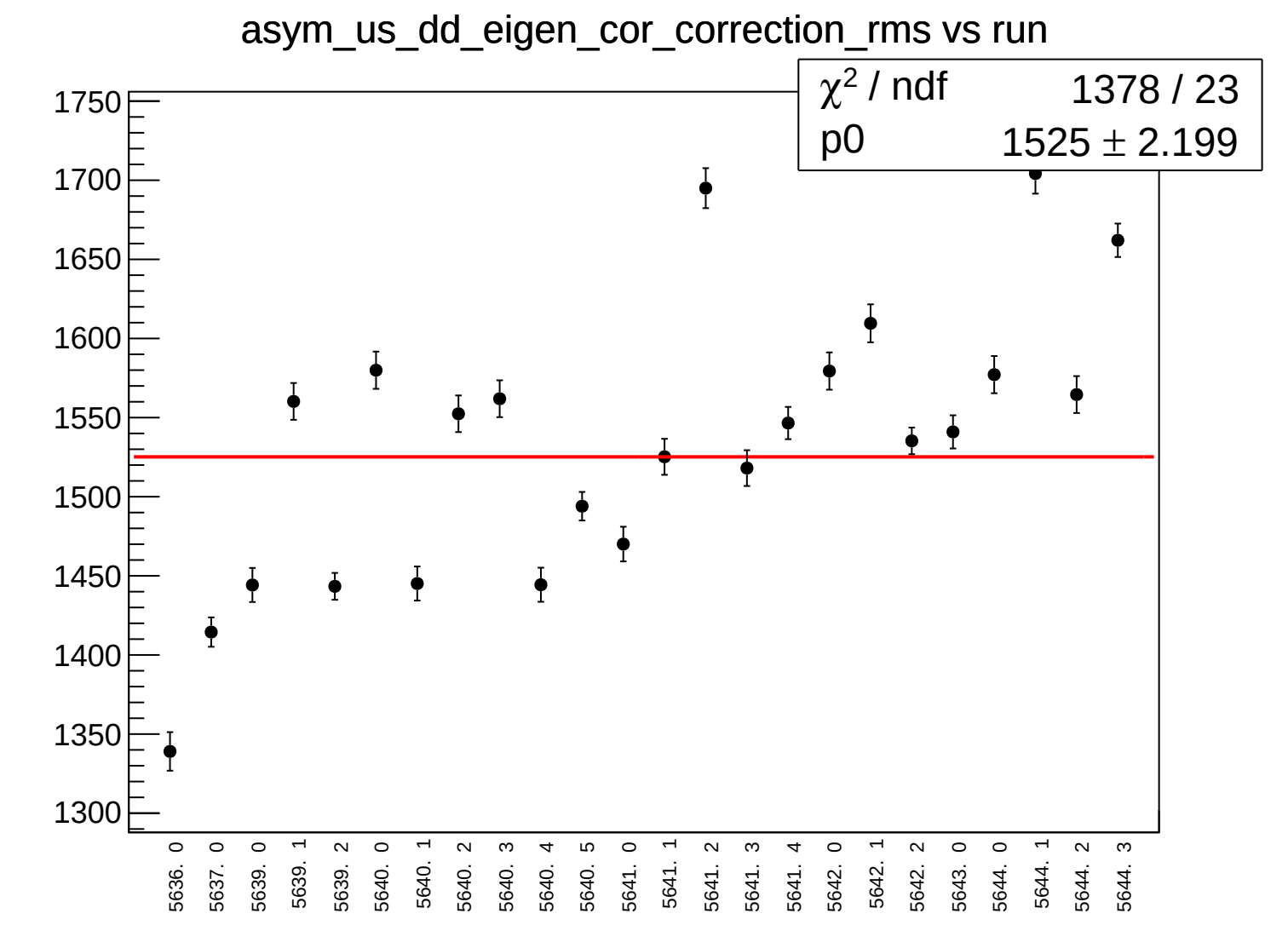
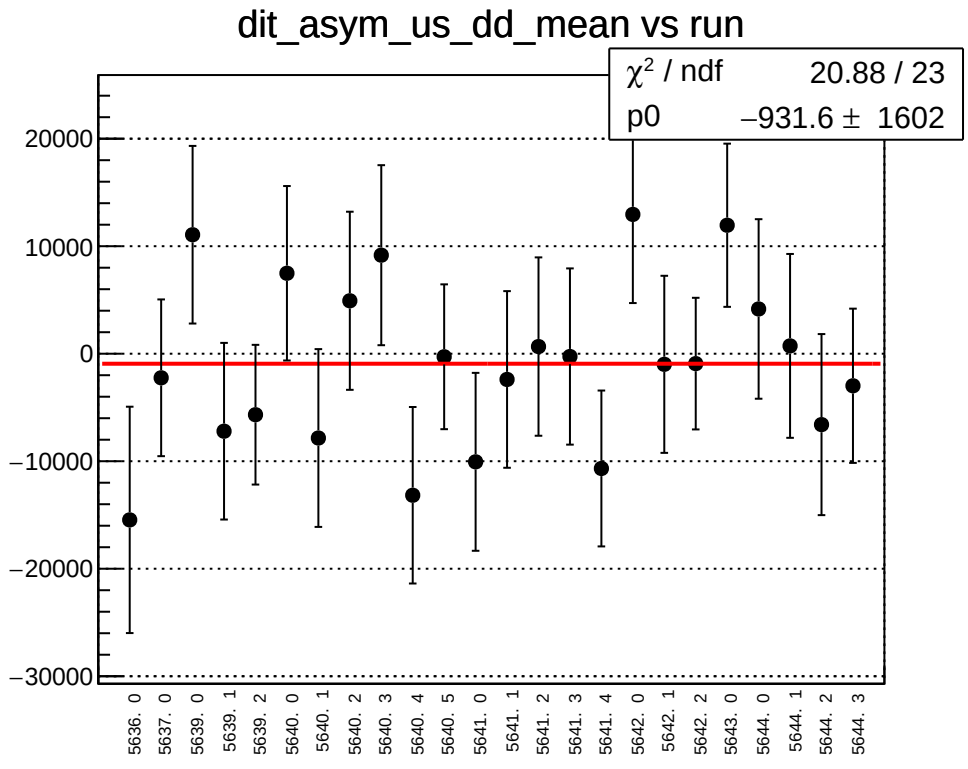
5644. 2
5644. 3


asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 11.03 / 23
p0 −2734 ± 3111
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 374.1
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.005258
Std Dev 0.6778
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 1378 / 23
p0 1525 ± 2.199
1750
1700
1650
1600
1550
1500
1450
1400
1350
1300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


dit_asym_us_dd_mean vs run
χ² / ndf 20.88 / 23
p0 −931.6 ± 1602
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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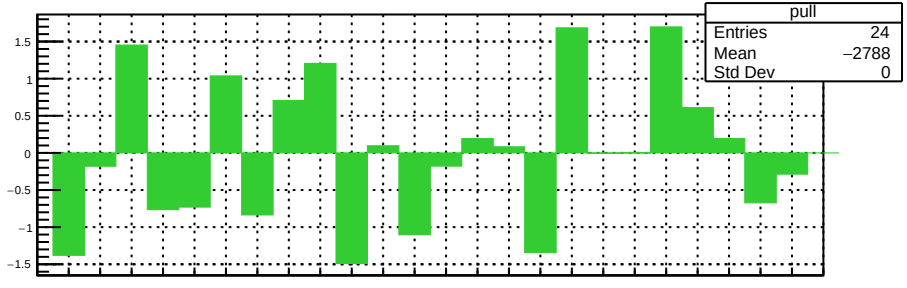
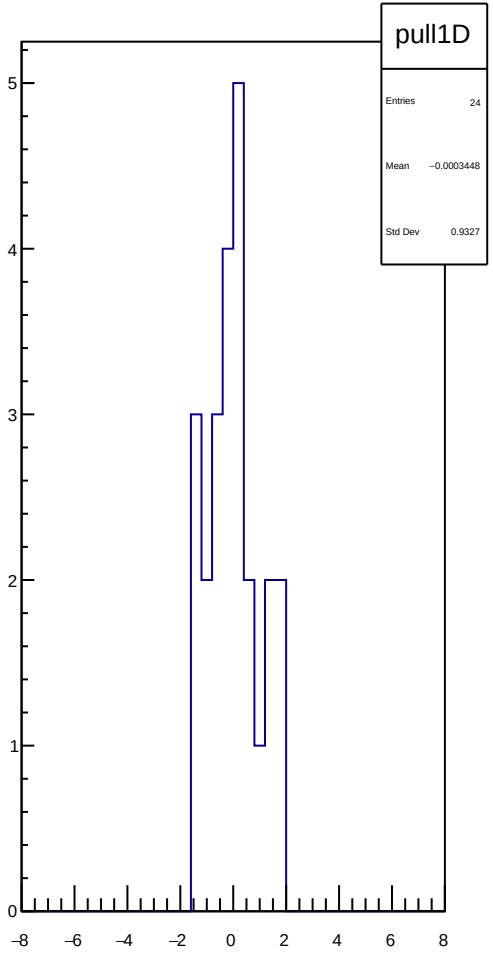
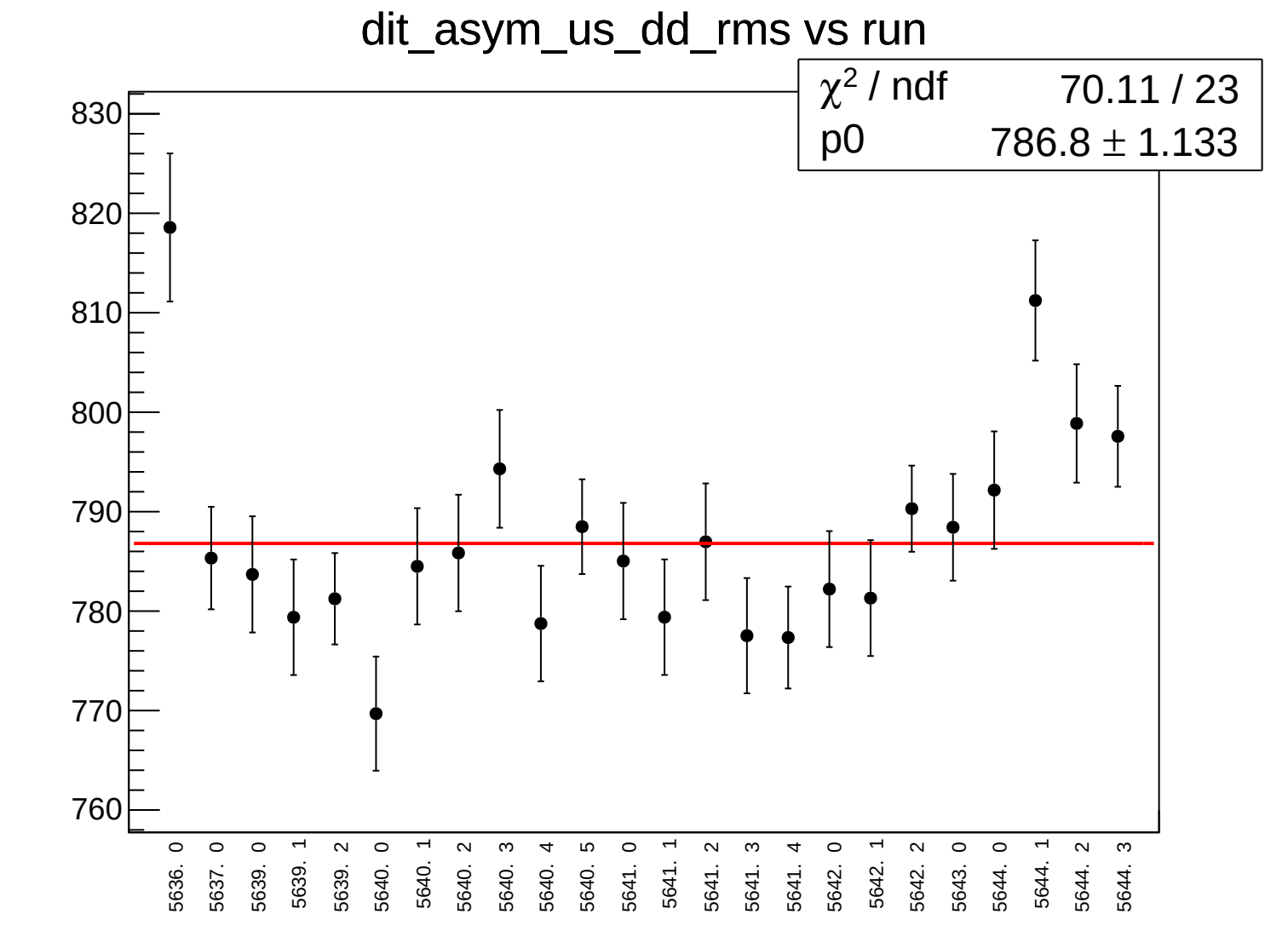
5644. 2
5644. 3


pull
Entries 24
Mean −2788
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean −0.0003448
Std Dev 0.9327
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_dd_rms vs run
χ² / ndf 70.11 / 23
p0 786.8 ± 1.133
830
820
810
800
790
780
770
760
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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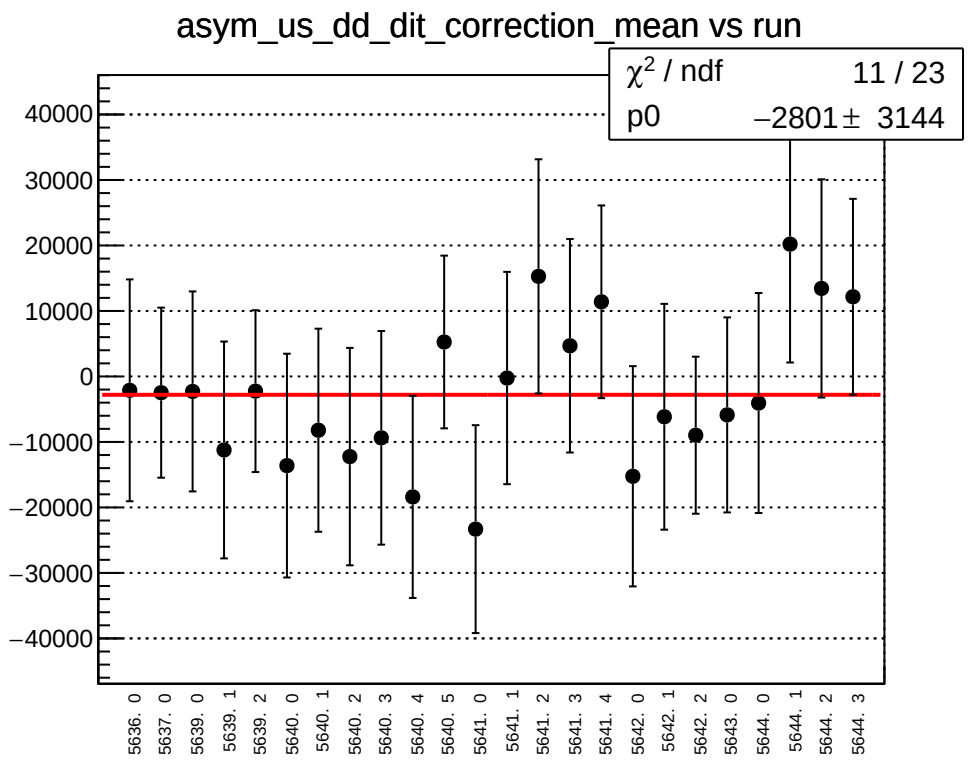
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_us_dd_dit_correction_mean vs run
χ² / ndf 11 / 23
p0 −2801 ± 3144
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5642. 1
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5644. 0
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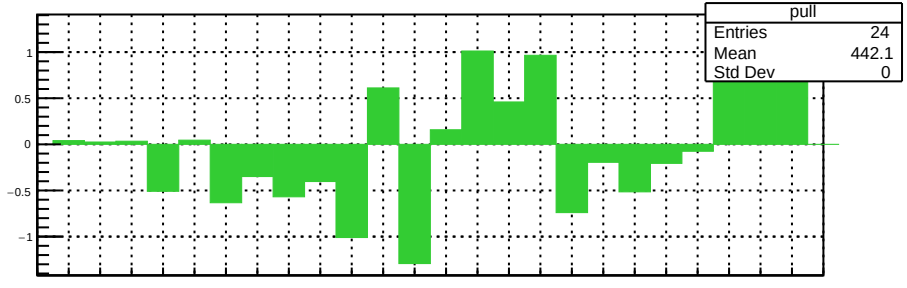
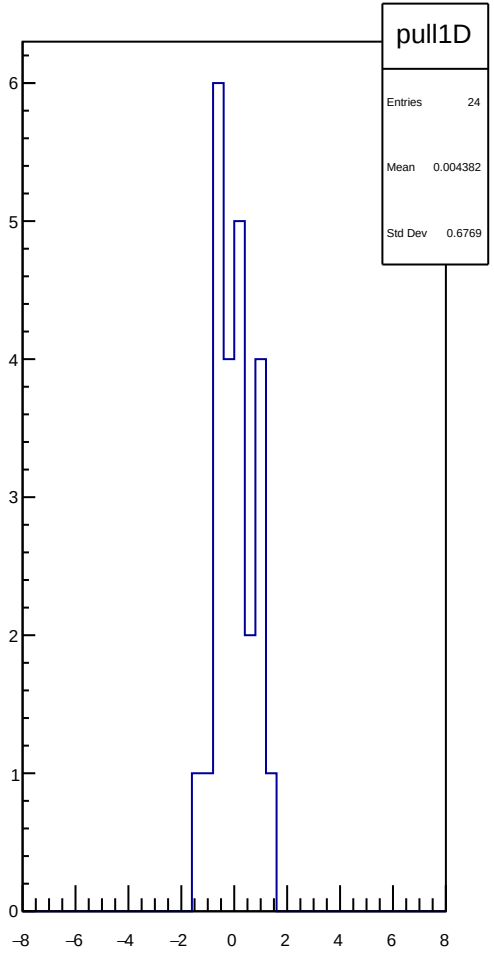
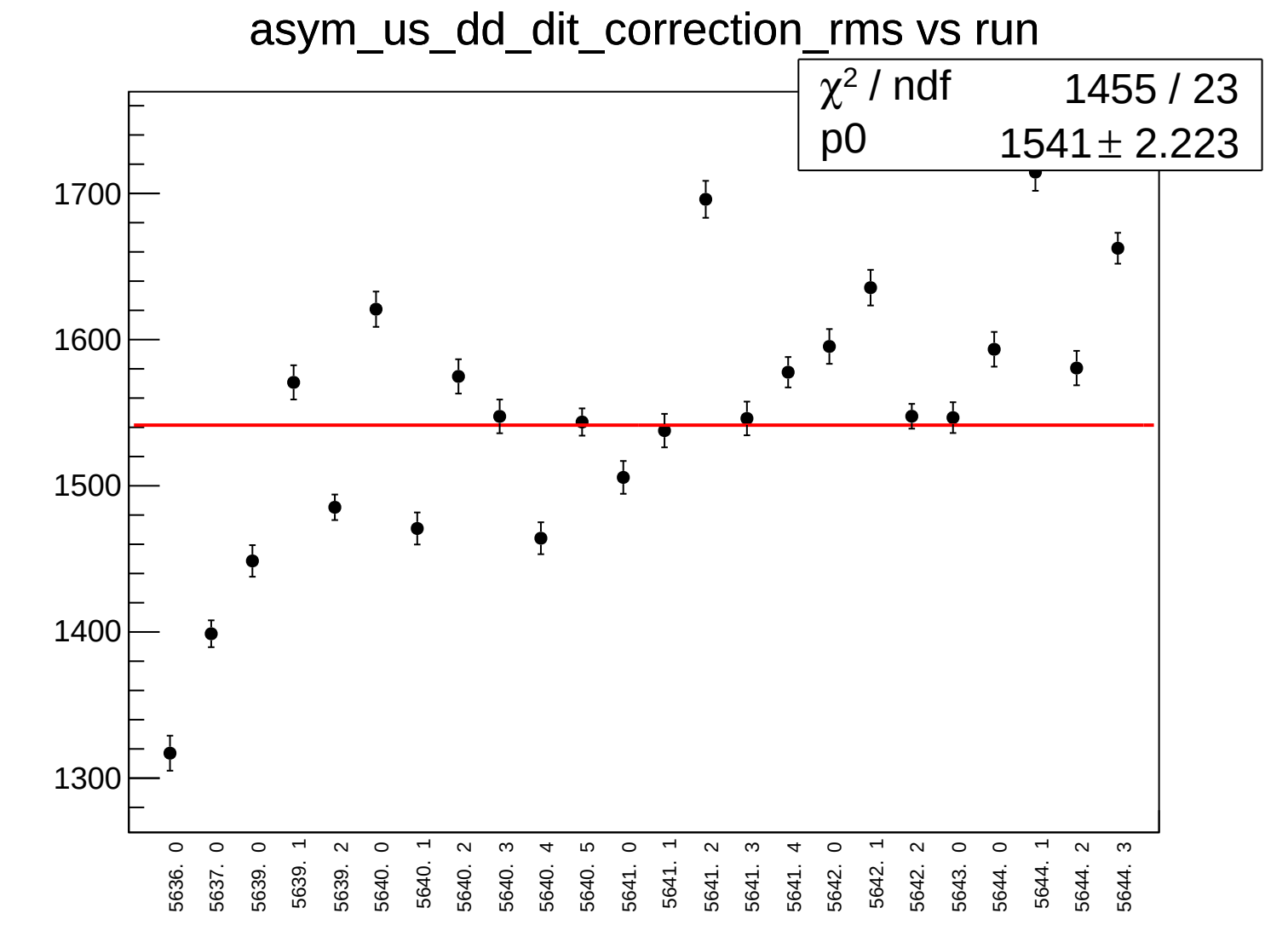
5644. 2
5644. 3


pull
Entries 24
Mean 442.1
Std Dev 0
1
0.5
0
−0.5
−1


pull1D
Entries 24
Mean 0.004382
Std Dev 0.6769
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_dit_correction_rms vs run
χ² / ndf 1455 / 23
p0 1541 ± 2.223
1700
1600
1500
1400
1300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5642. 0
5642. 1
5642. 2
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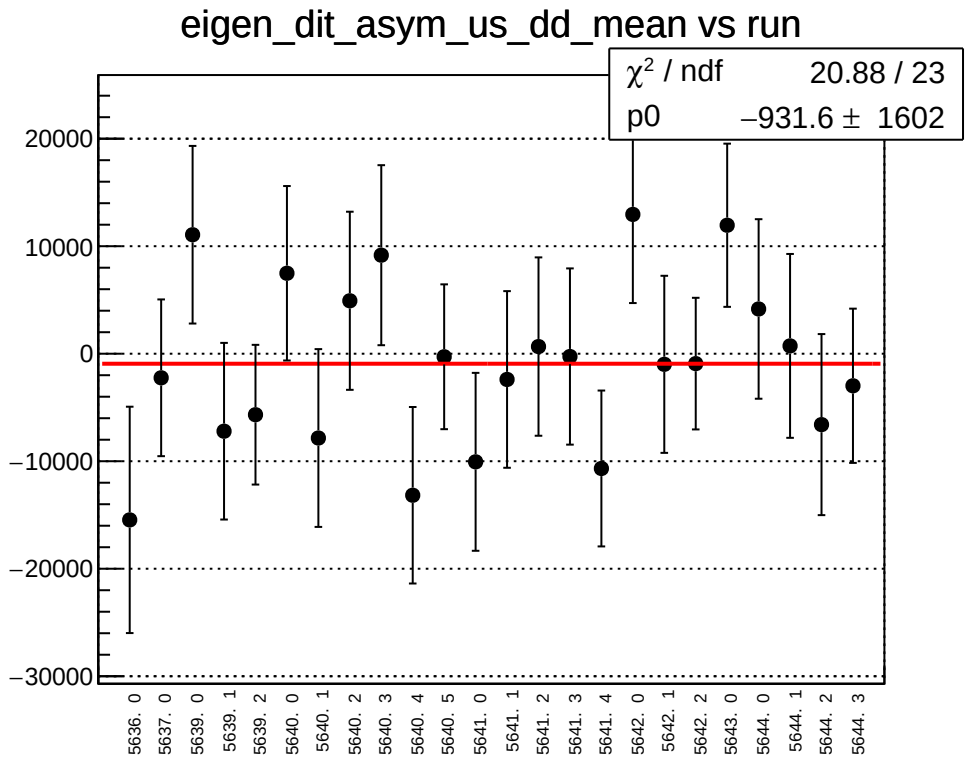
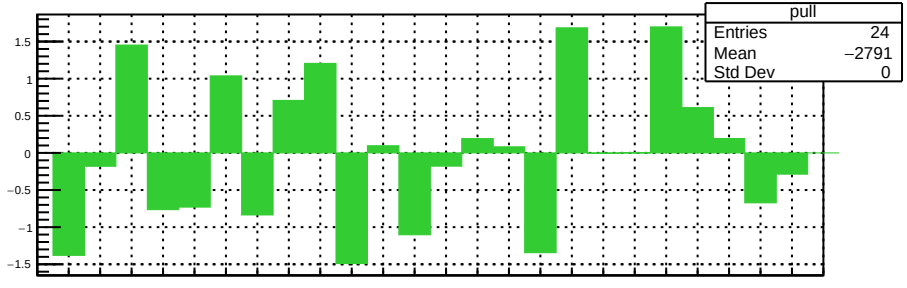
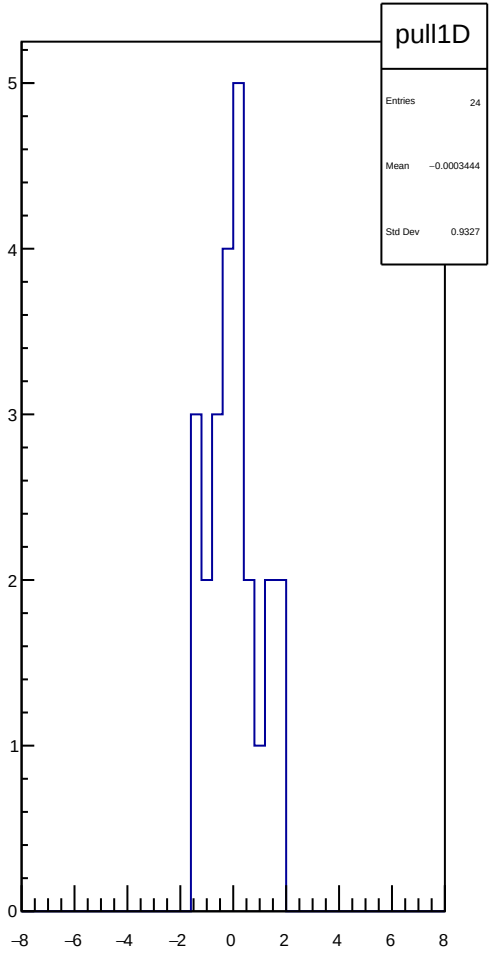
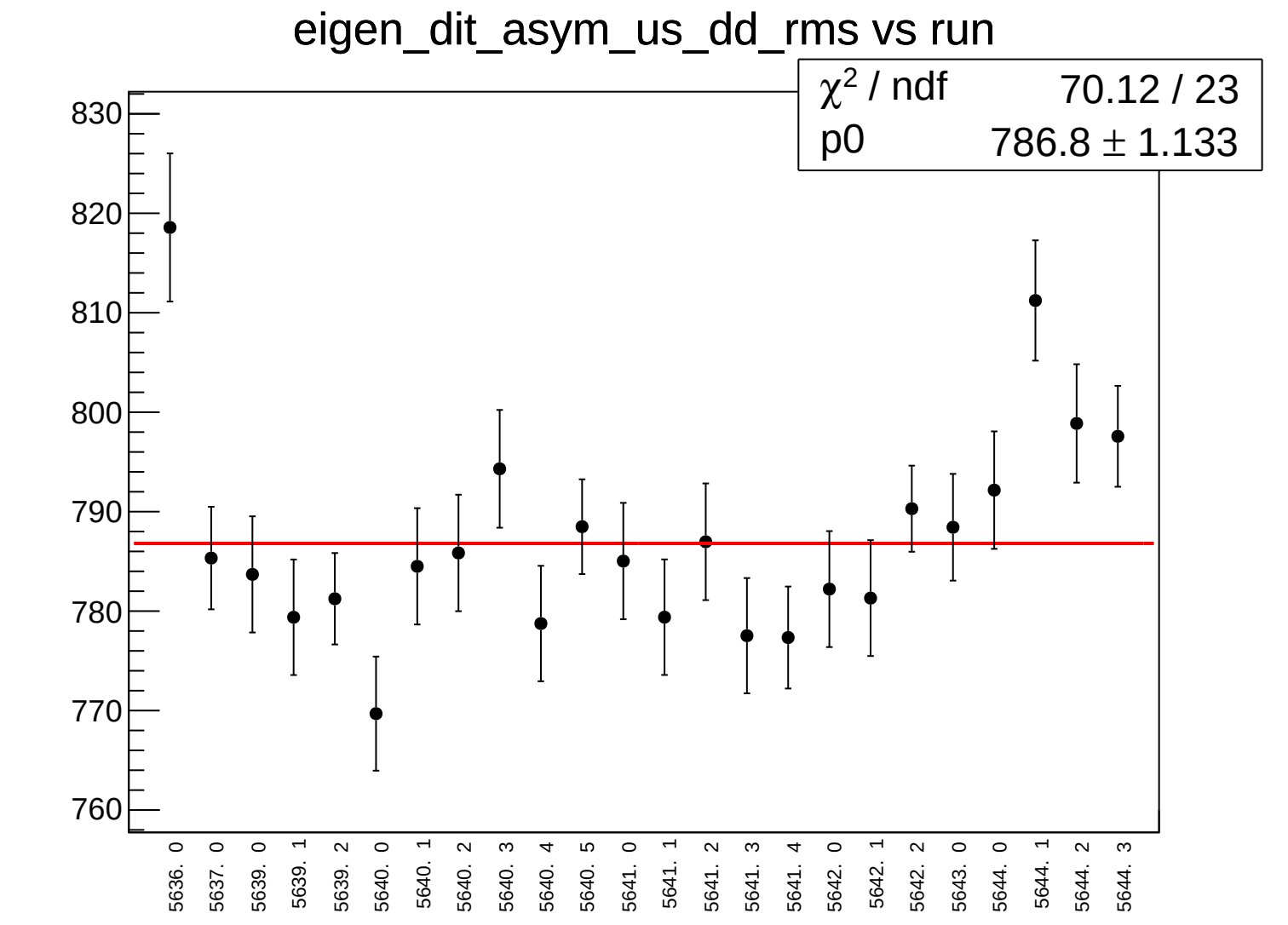
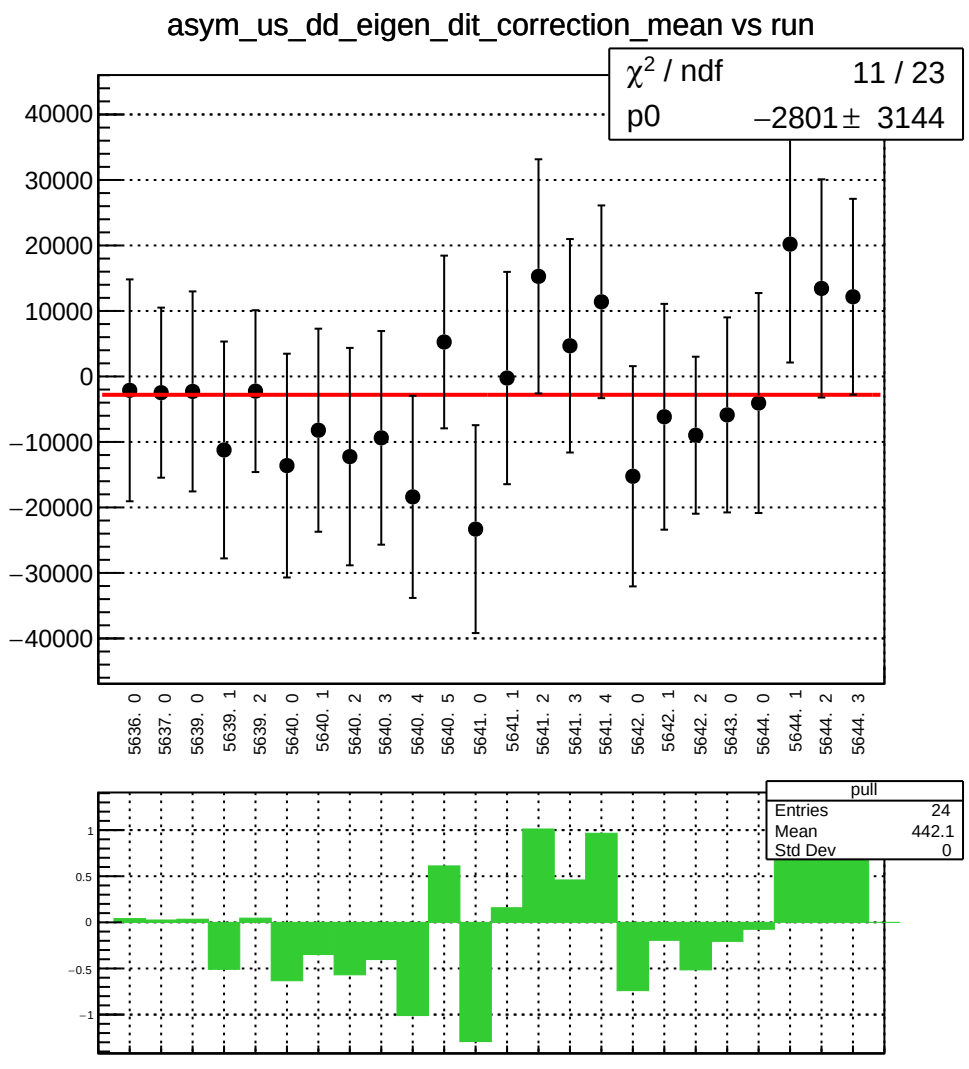
5644. 0
5644. 1
5644. 2
5644. 3

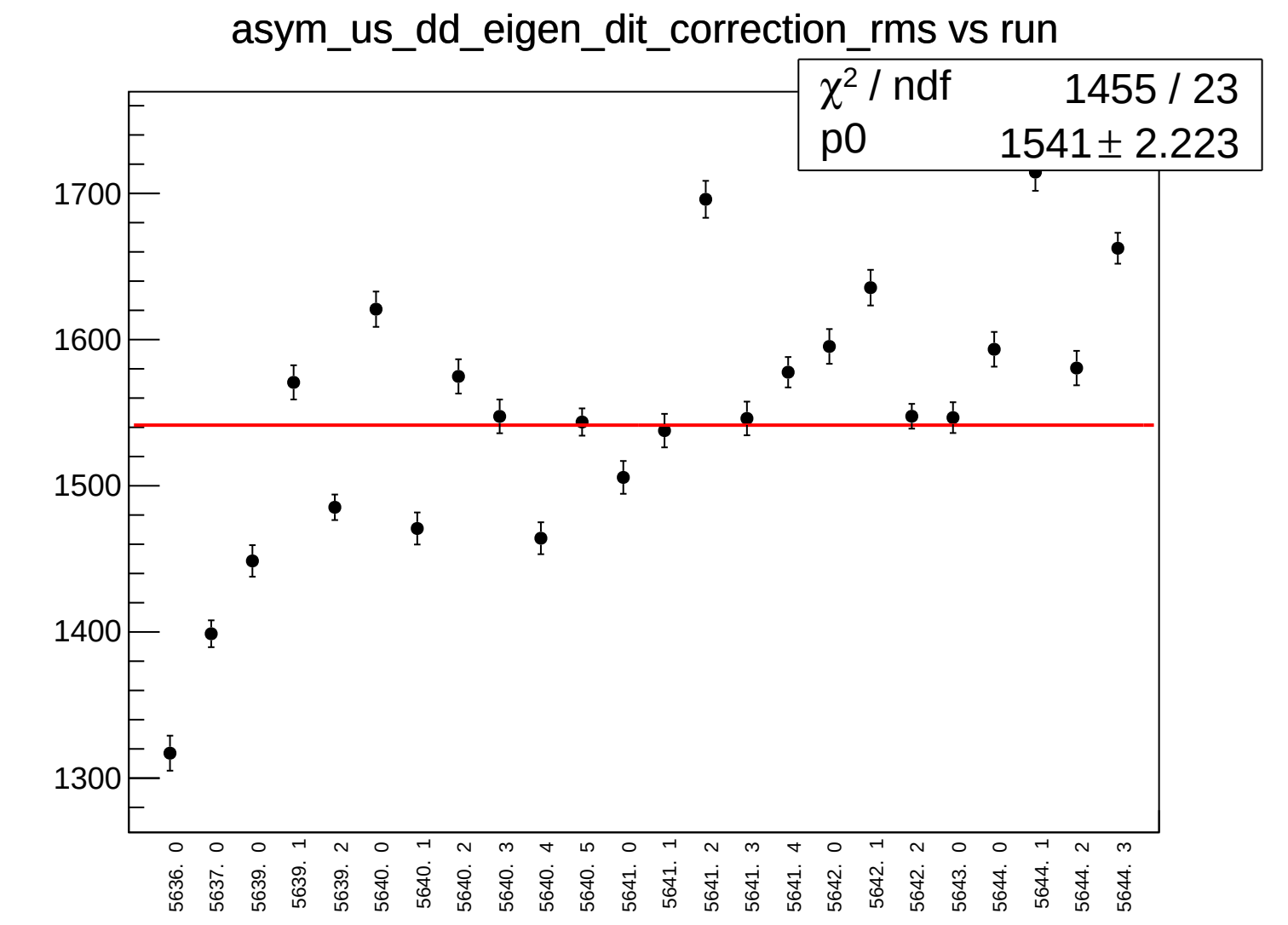

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 20.88 / 23
p0 −931.6 ± 1602
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

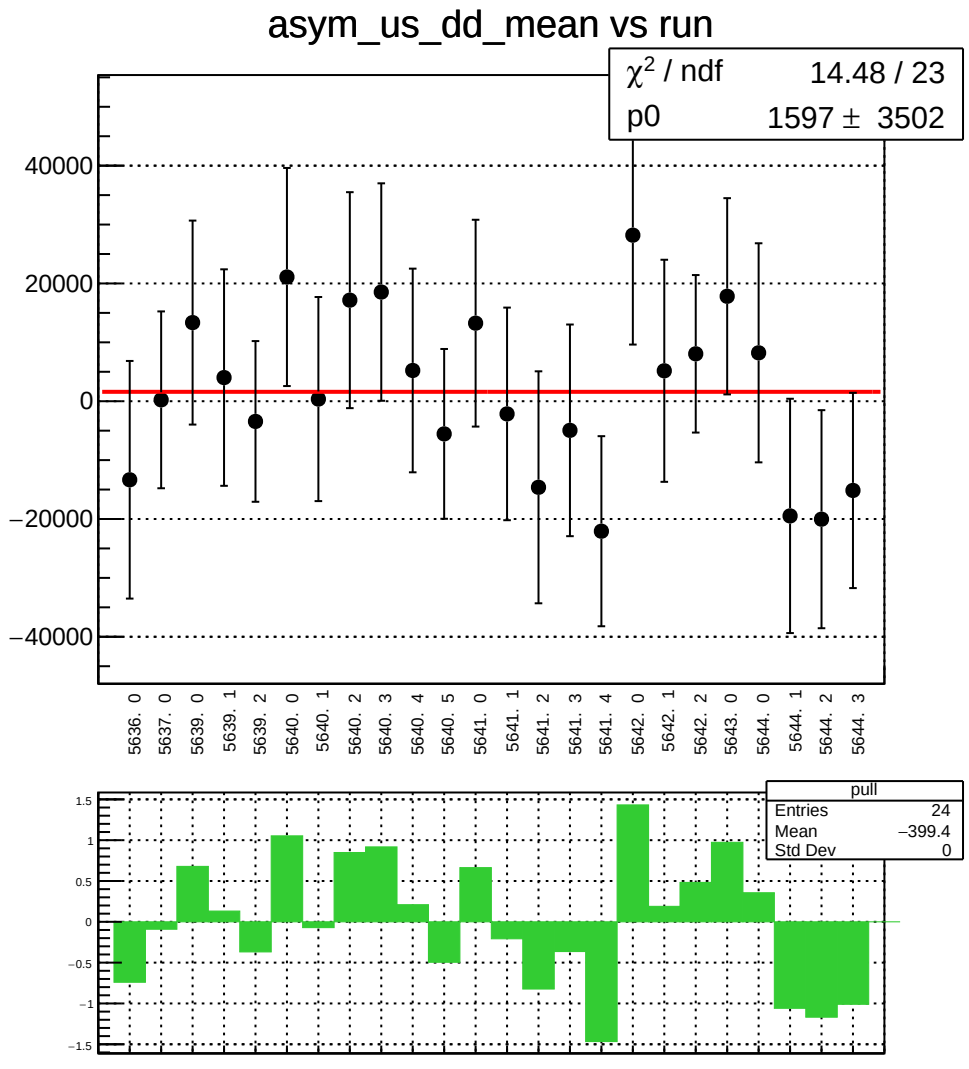

pull
Entries 24
Mean −2791
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

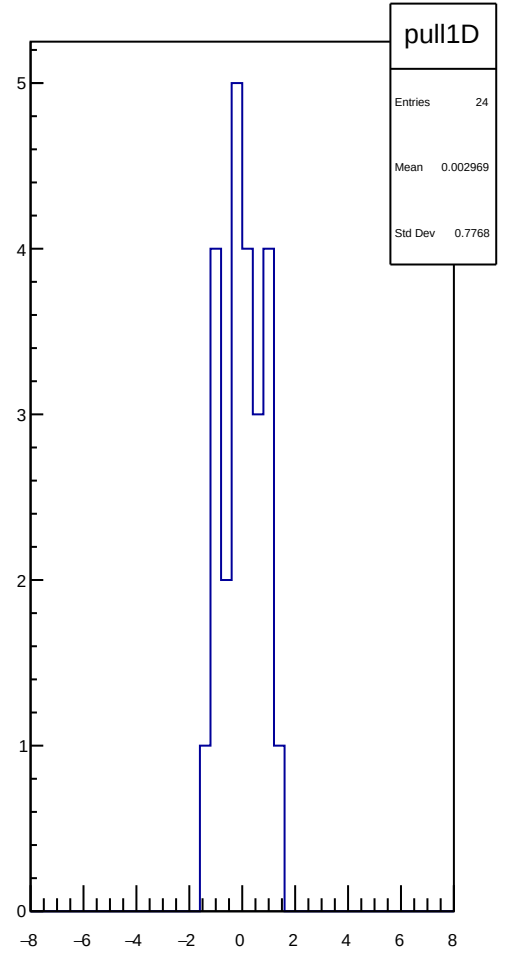

pull1D
Entries 24
Mean −0.0003444
Std Dev 0.9327
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

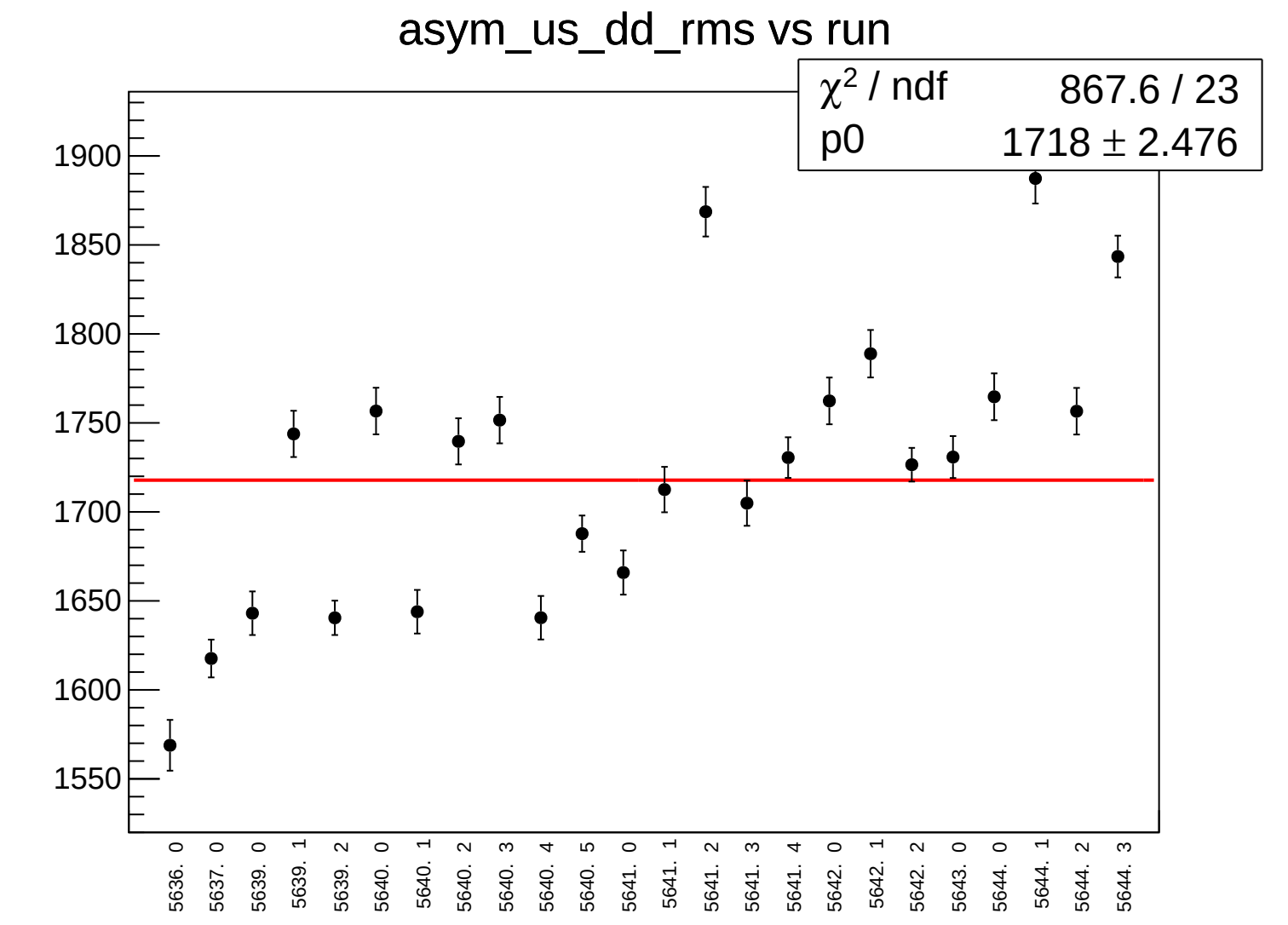

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 70.12 / 23
p0 786.8 ± 1.133
830
820
810
800
790
780
770
760
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

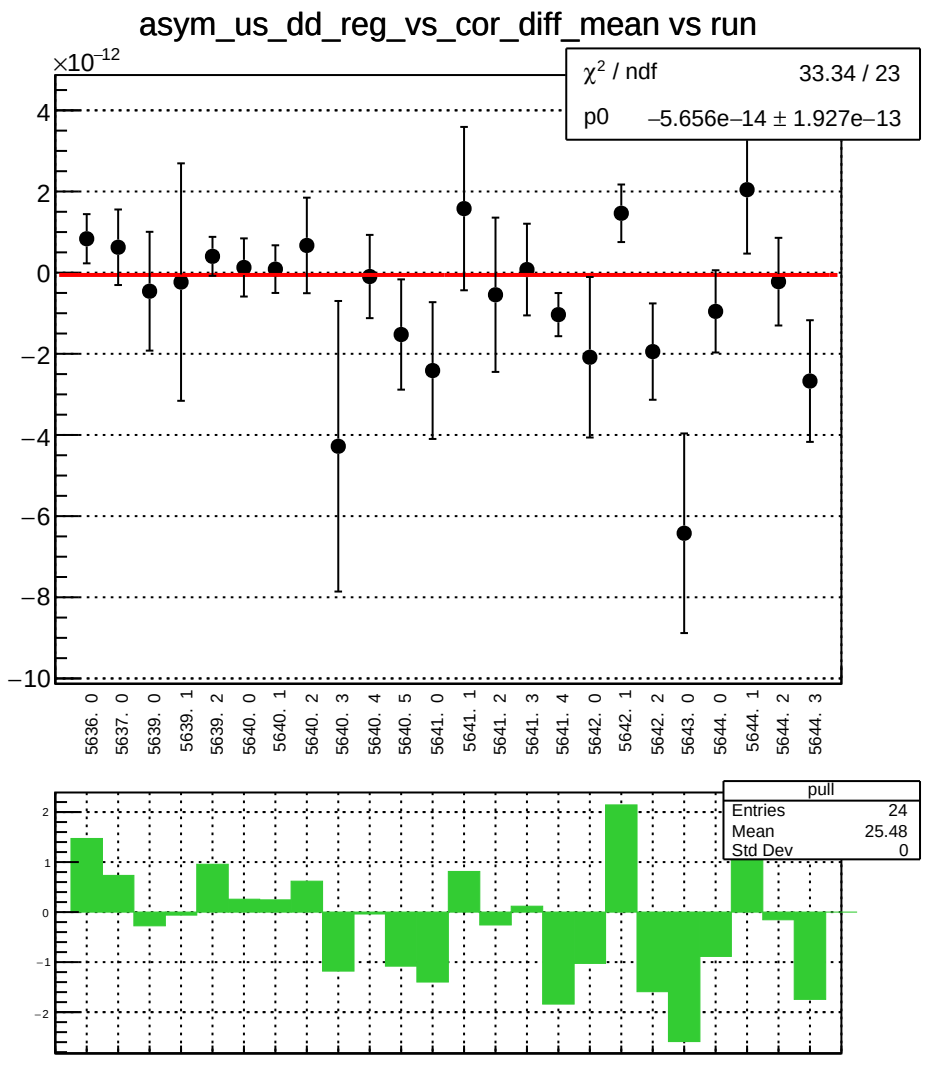

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 11 / 23
p0 −2801 ± 3144
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 442.1
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.004382
Std Dev 0.6769
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

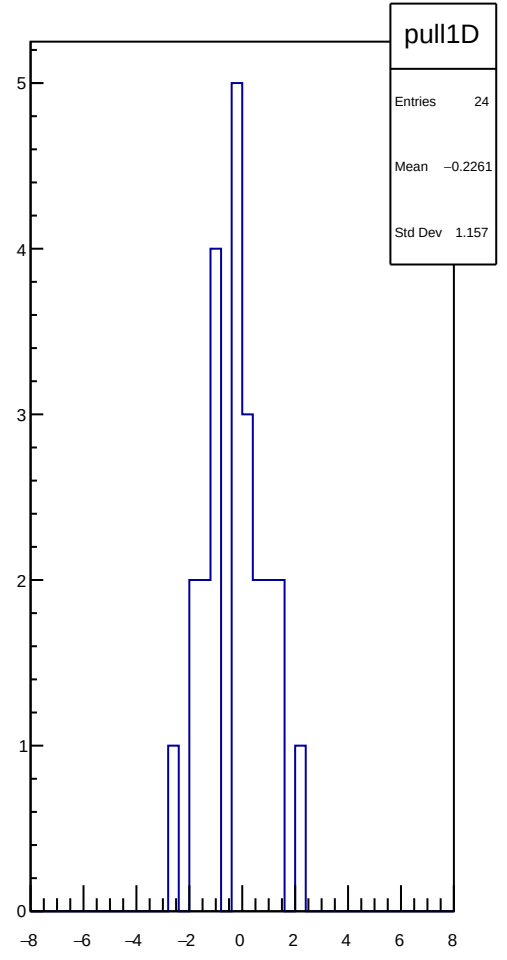

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 1455 / 23
p0 1541 ± 2.223
1700
1600
1500
1400
1300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

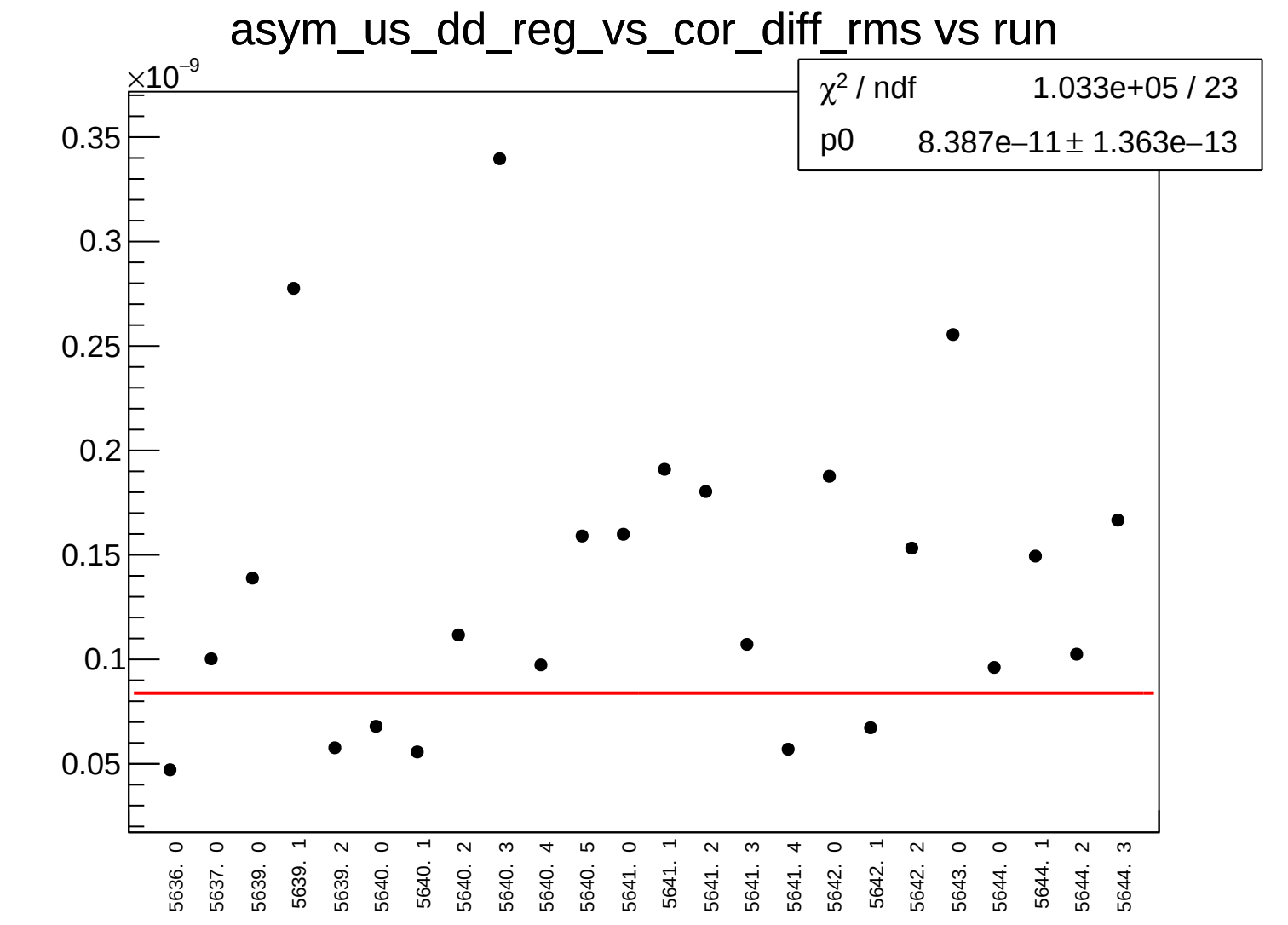

asym_us_dd_mean vs run
χ² / ndf 14.48 / 23
p0 1597 ± 3502
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −399.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

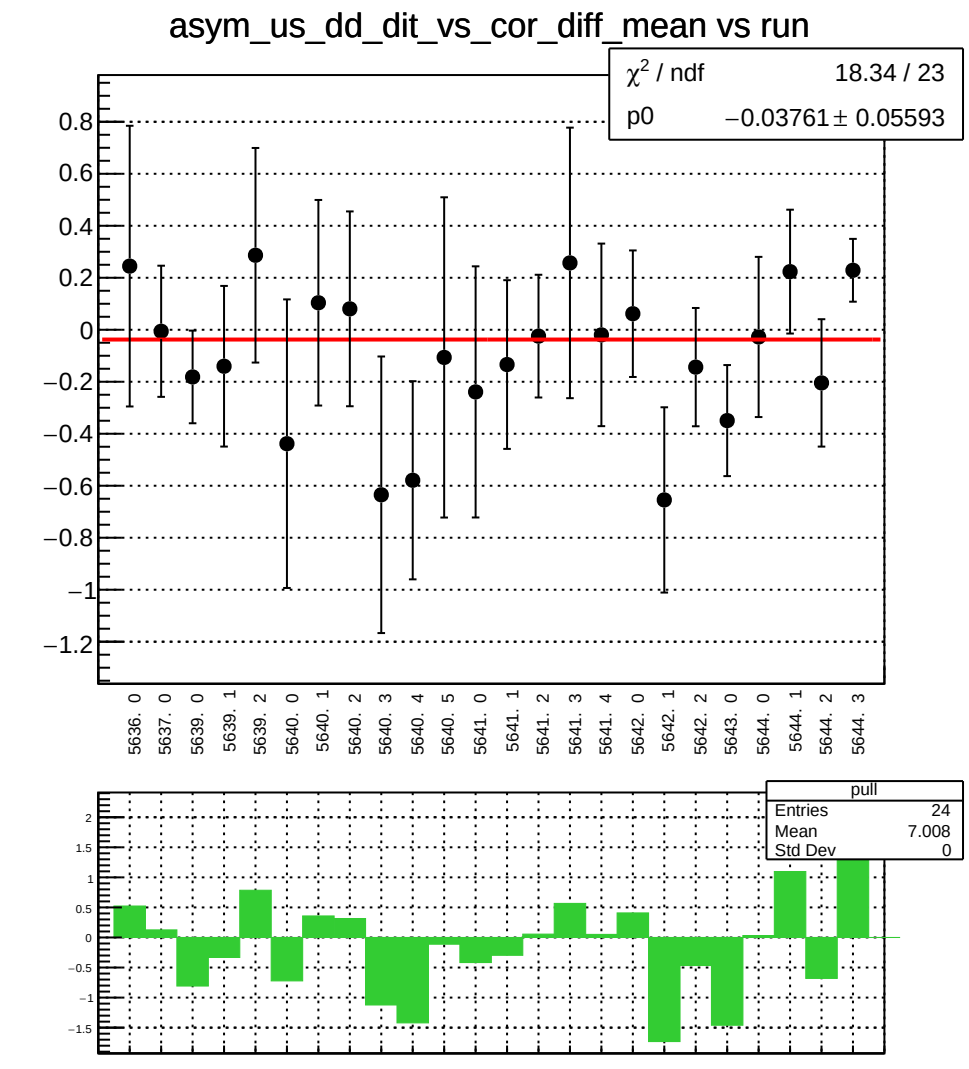

pull1D
Entries 24
Mean 0.002969
Std Dev 0.7768
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

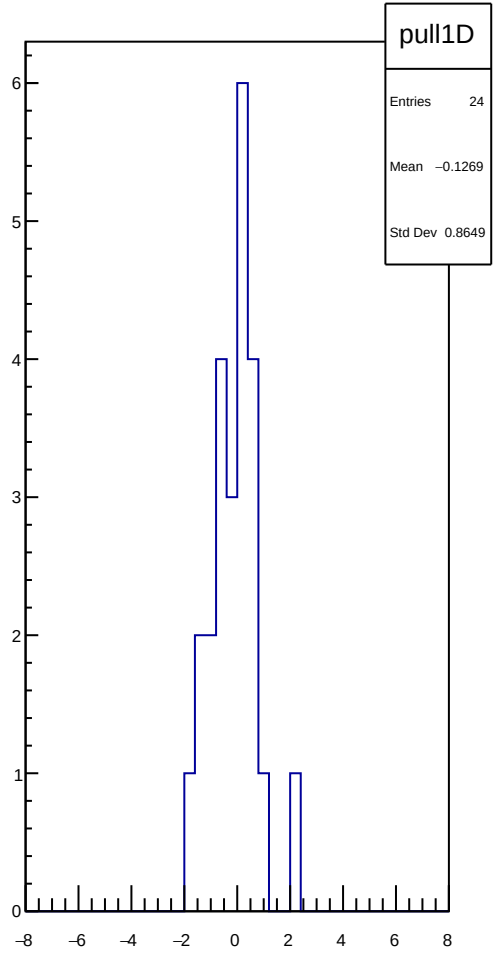

asym_us_dd_rms vs run
χ² / ndf 867.6 / 23
p0 1718 ± 2.476
1900
1850
1800
1750
1700
1650
1600
1550
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

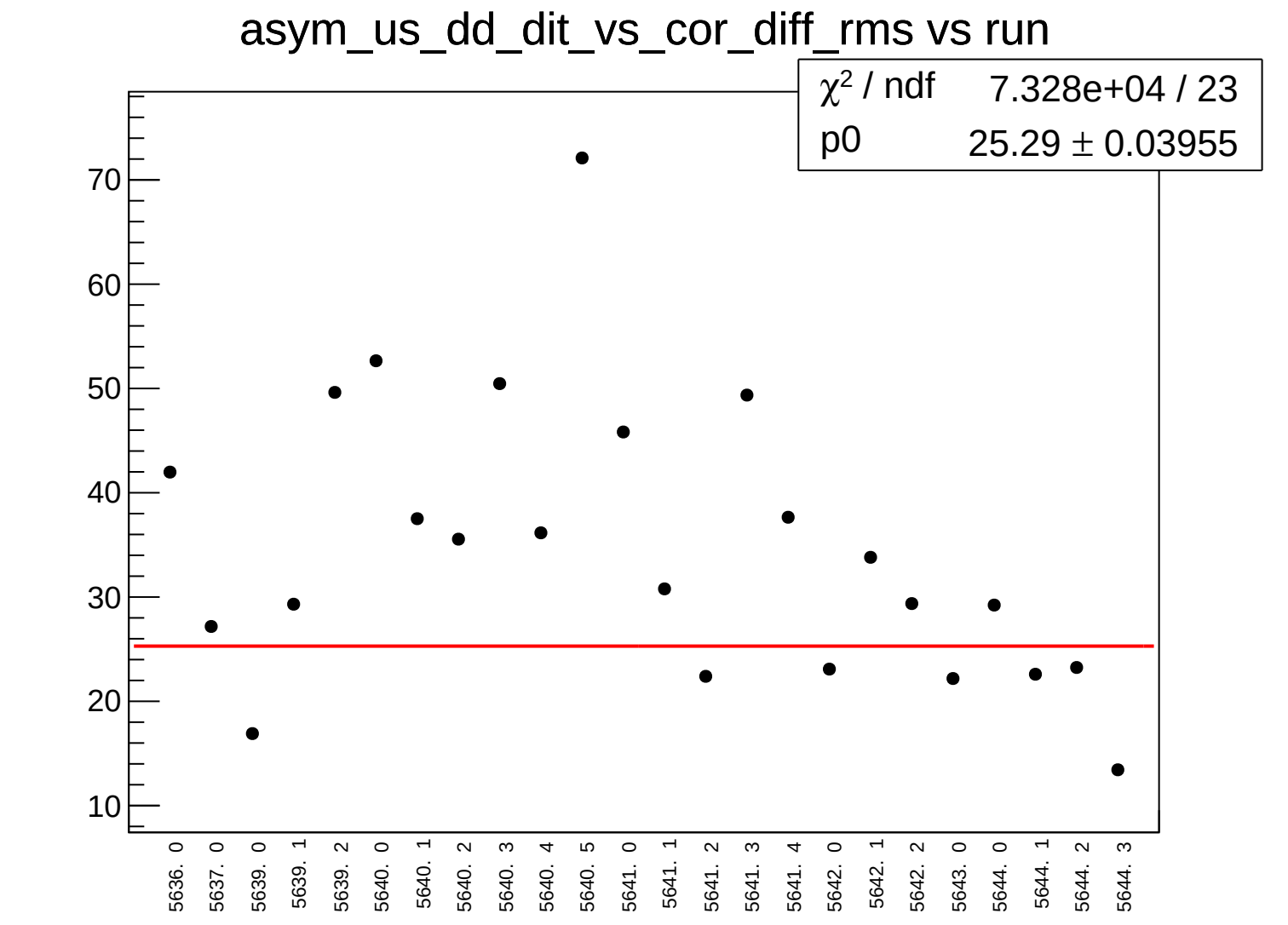

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 33.34 / 23
p0 −5.656e−14 ± 1.927e−13
4
2
0
−2
−4
−6
−8
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 25.48
Std Dev 0
2
1
0
−1
−2

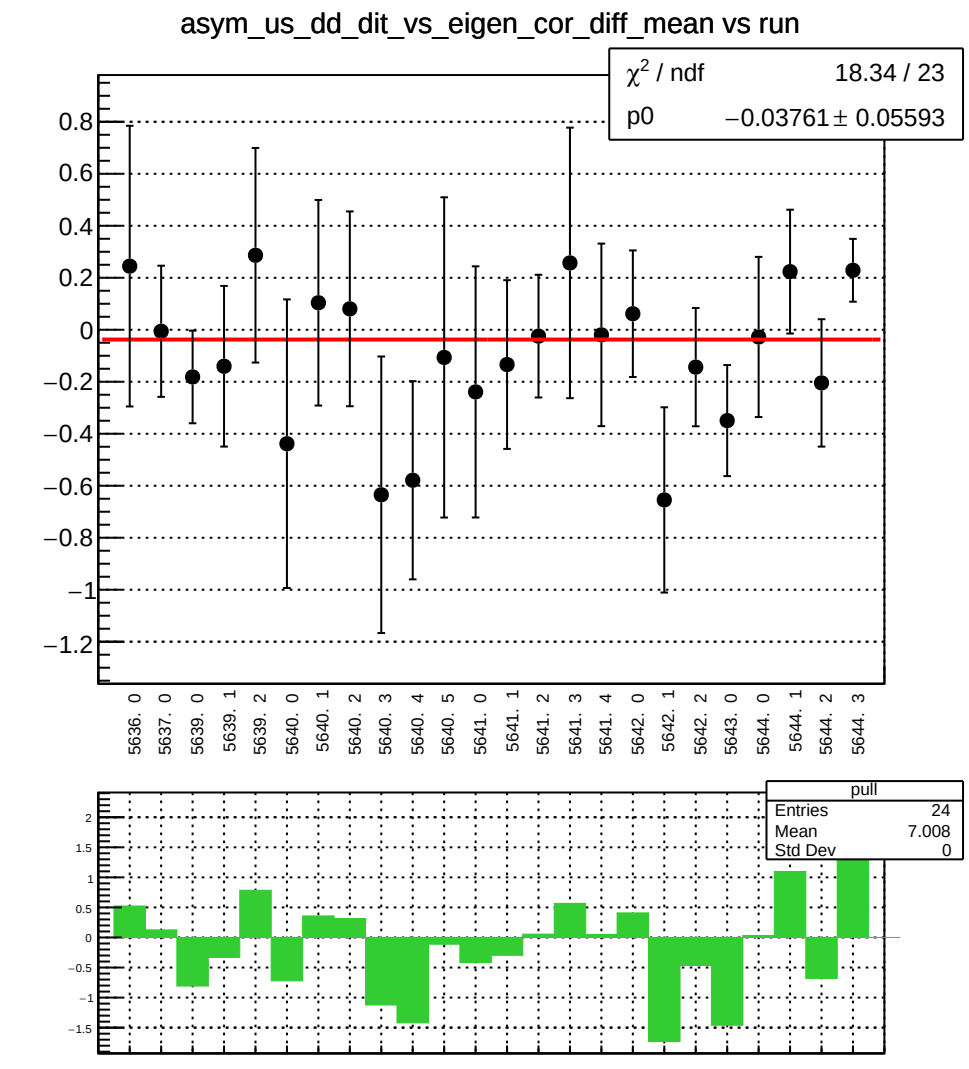

pull1D
Entries 24
Mean −0.2261
Std Dev 1.157
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

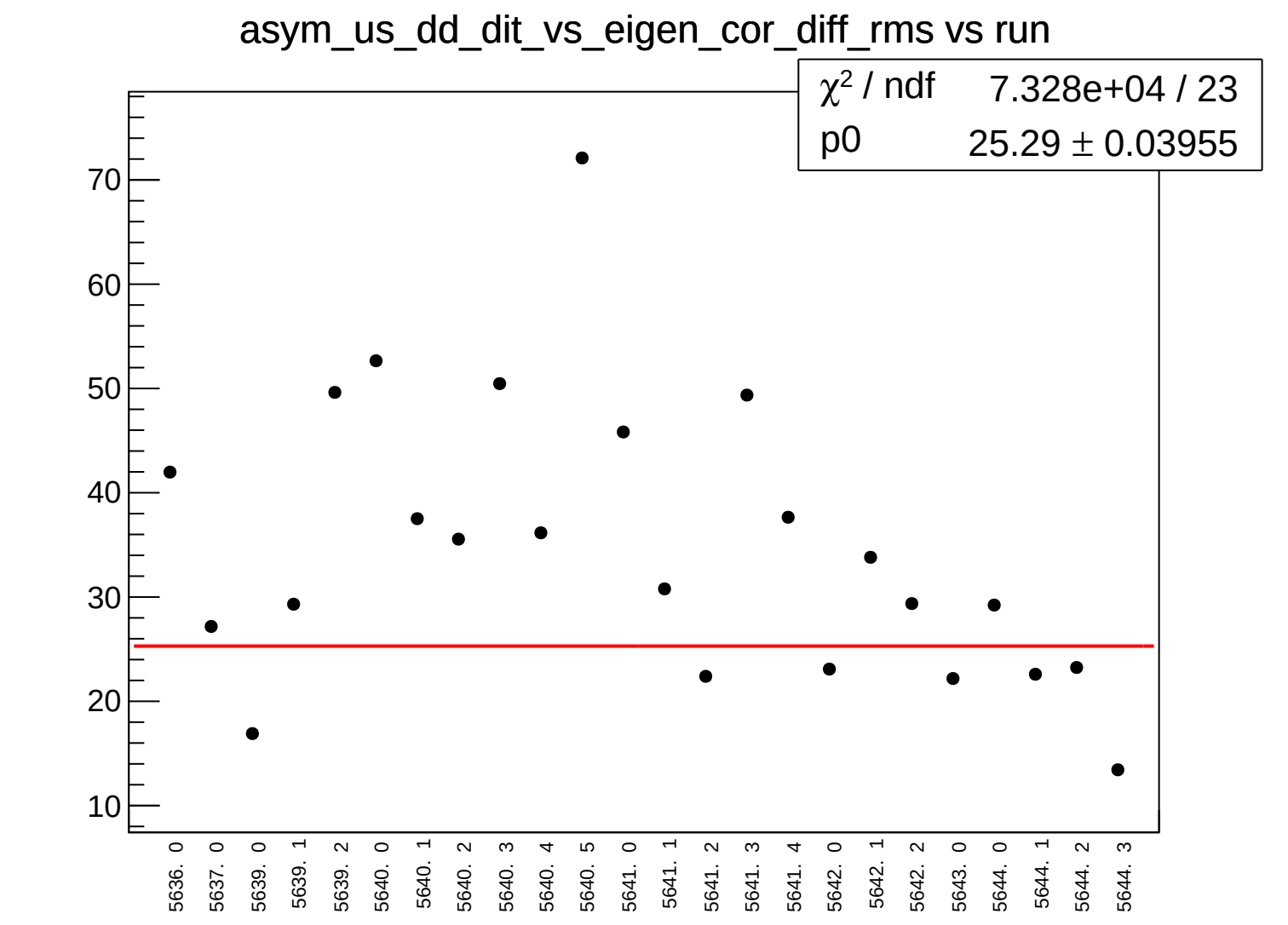

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.033e+05 / 23
p0 8.387e−11 ± 1.363e−13
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

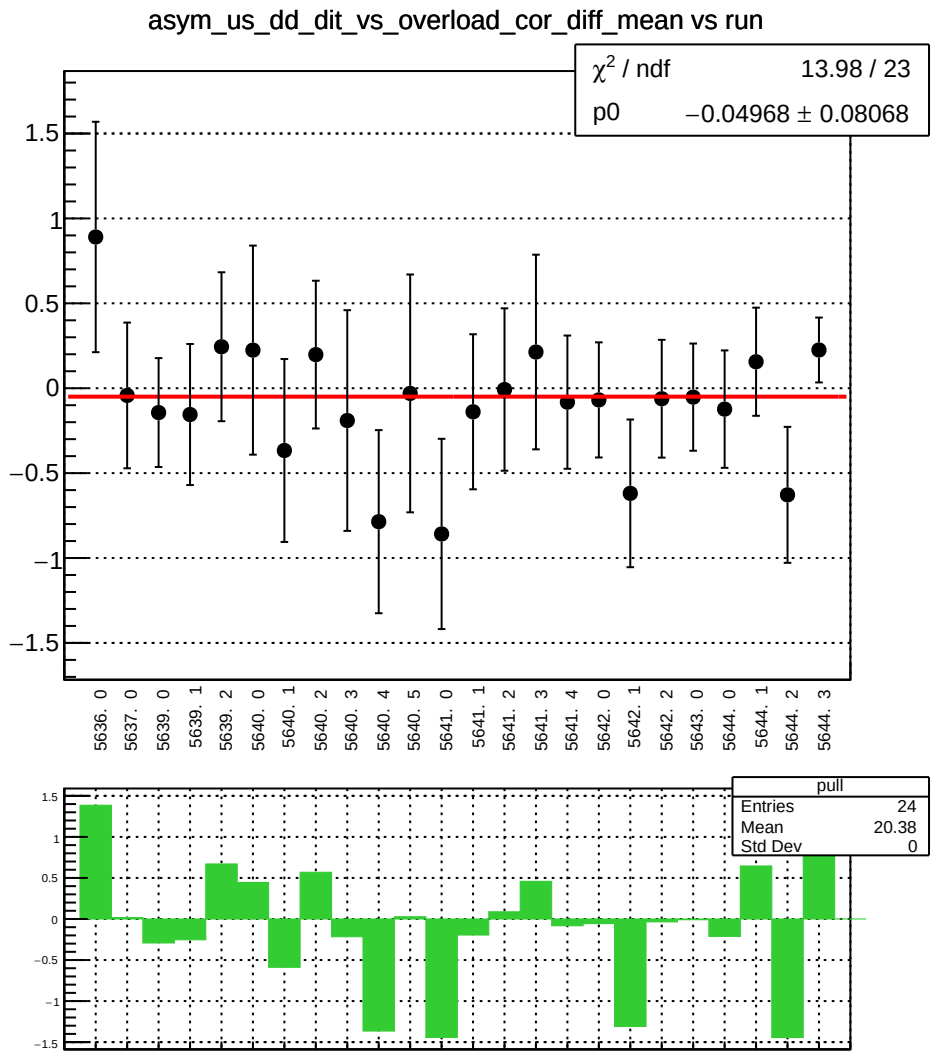

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 18.34 / 23
p0 −0.03761 ± 0.05593
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 7.008
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

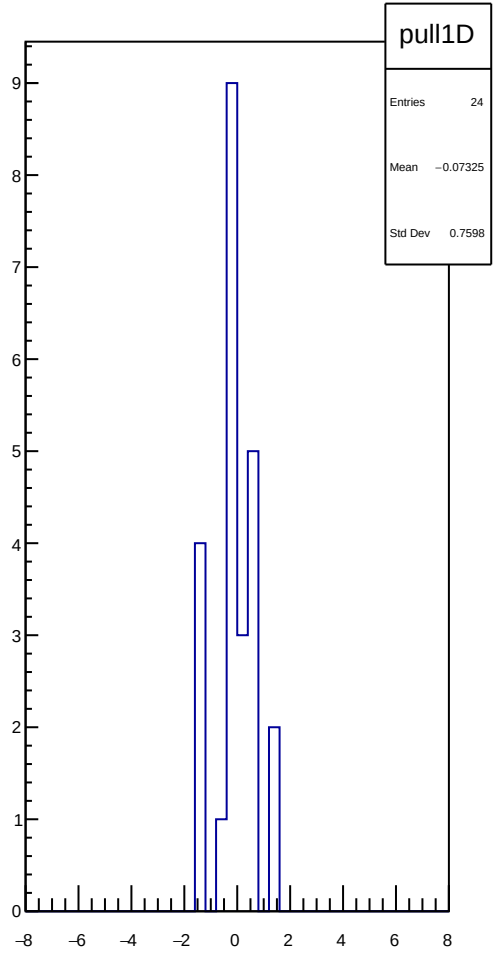

pull1D
Entries 24
Mean −0.1269
Std Dev 0.8649
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

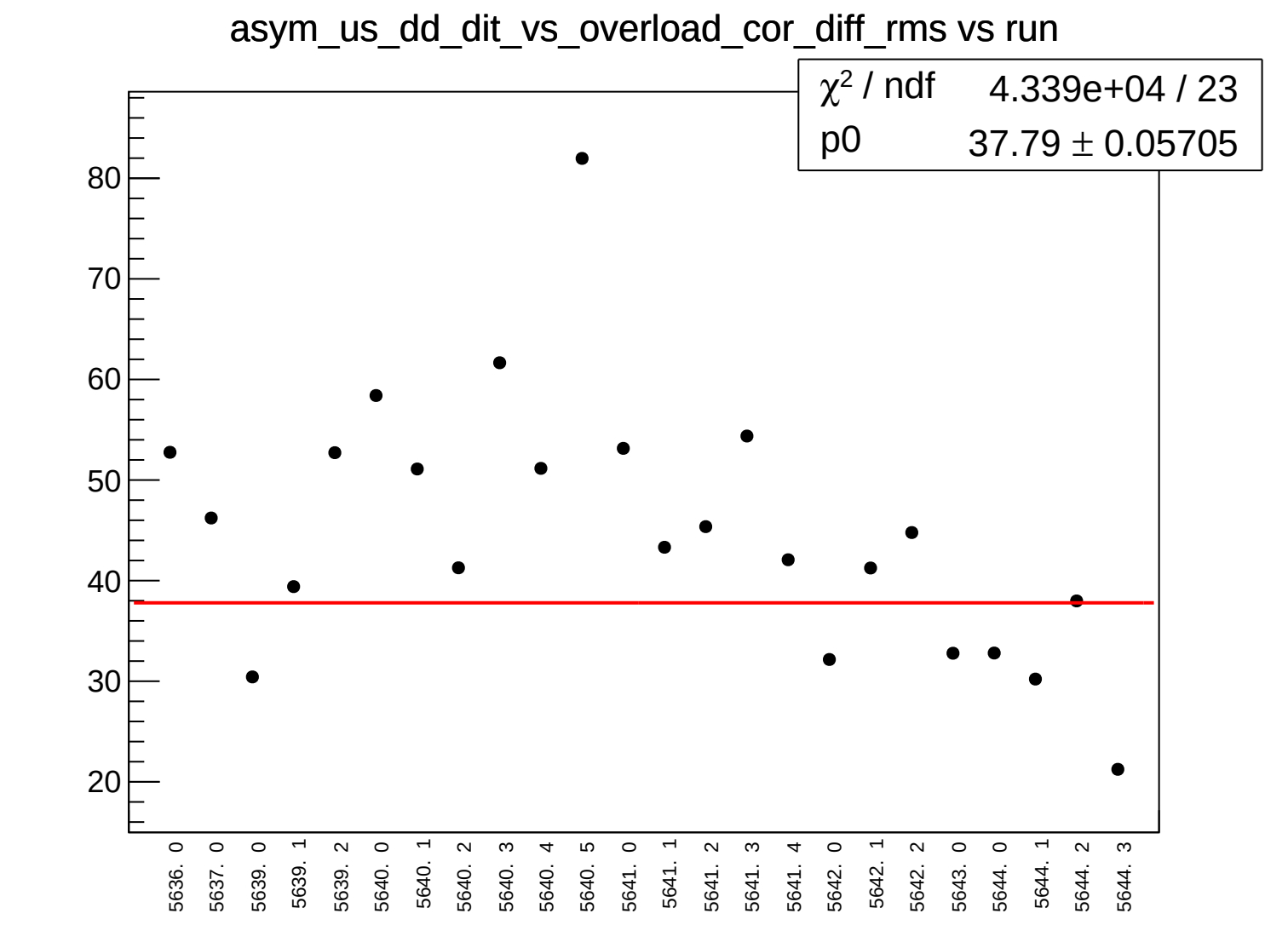

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.328e+04 / 23
p0 25.29 ± 0.03955
70
60
50
40
30
20
10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

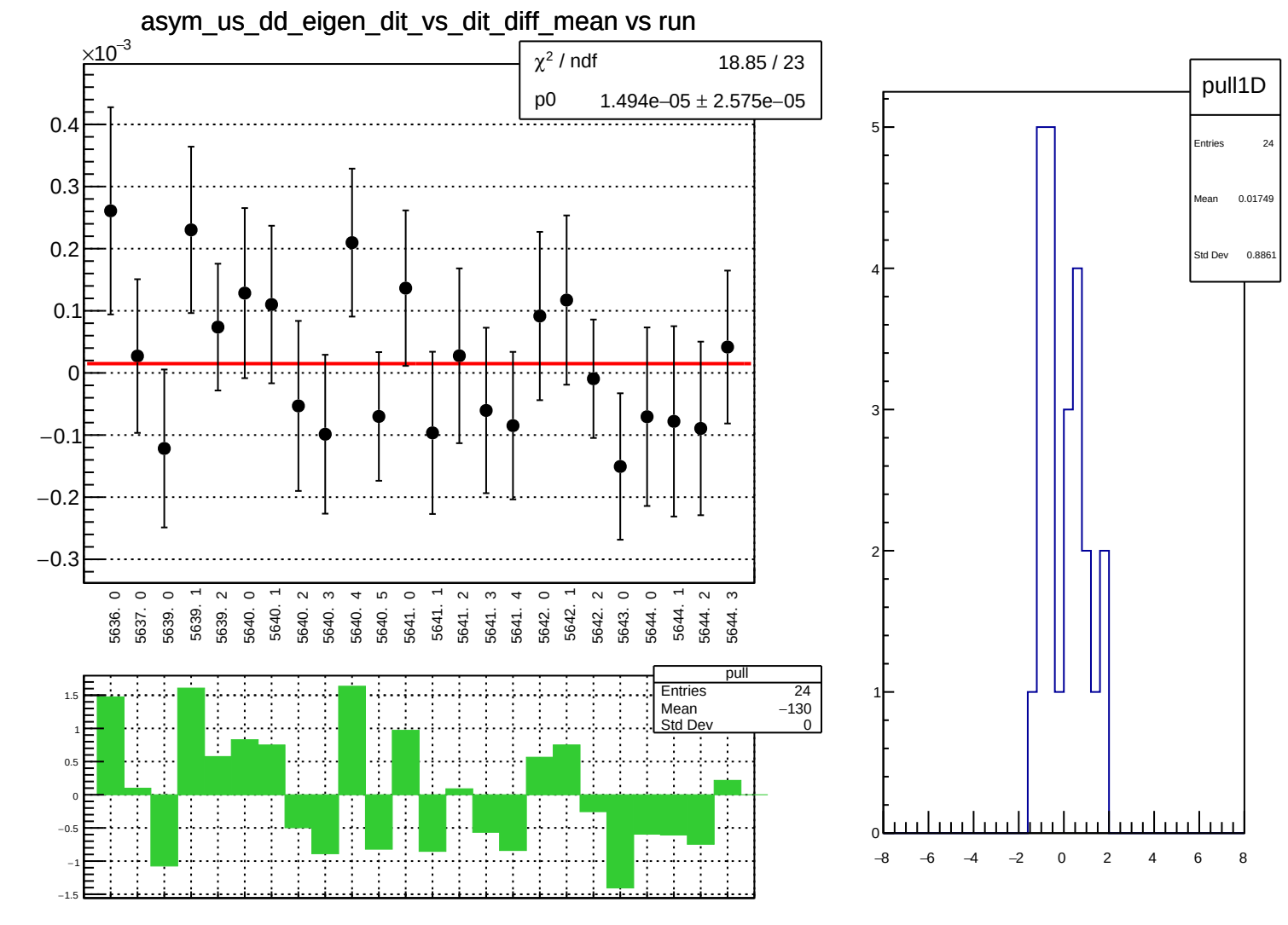

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 18.34 / 23
p0 −0.03761 ± 0.05593
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 7.008
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.1269
Std Dev 0.8649
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

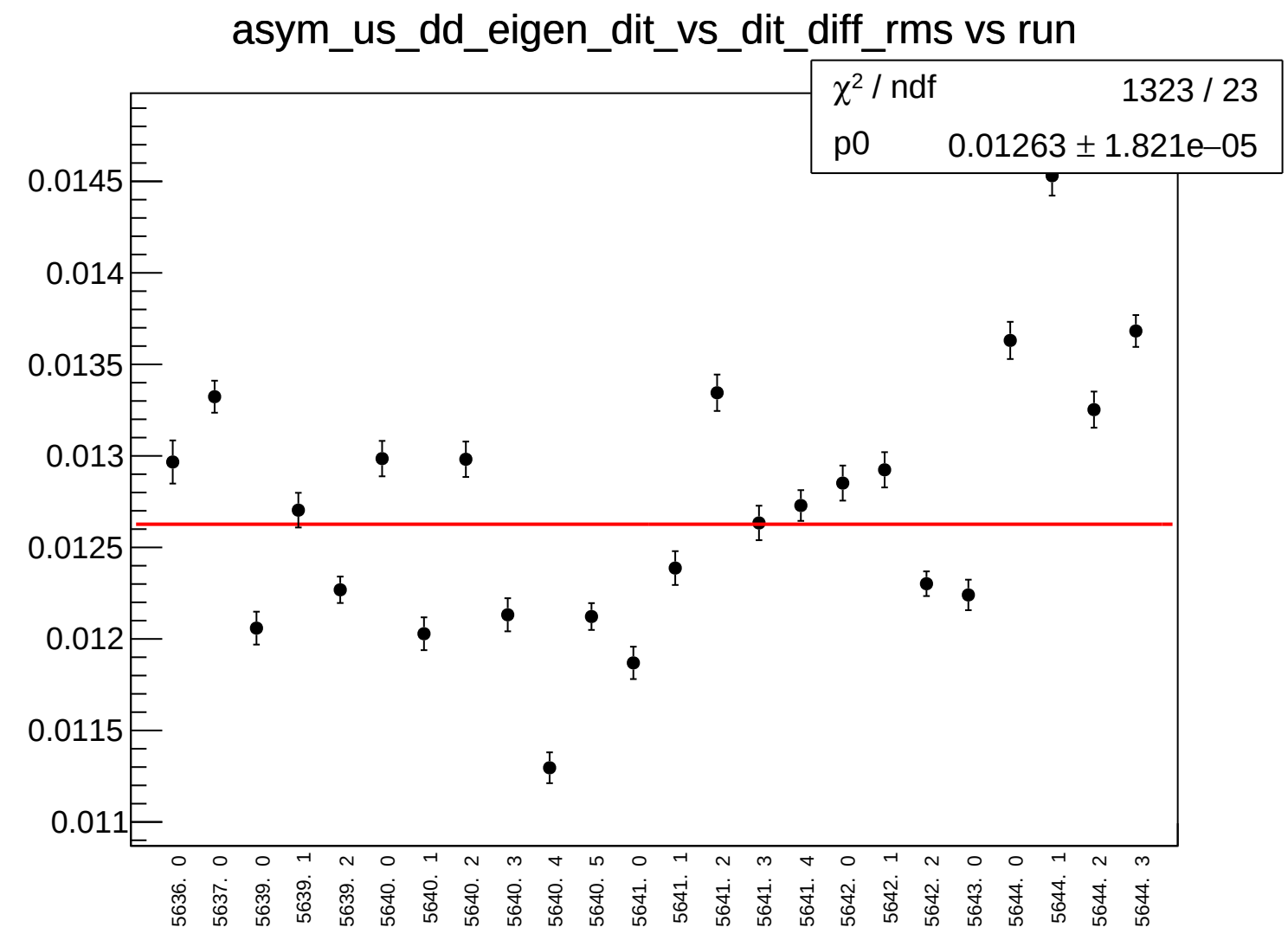

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.328e+04 / 23
p0 25.29 ± 0.03955
70
60
50
40
30
20
10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

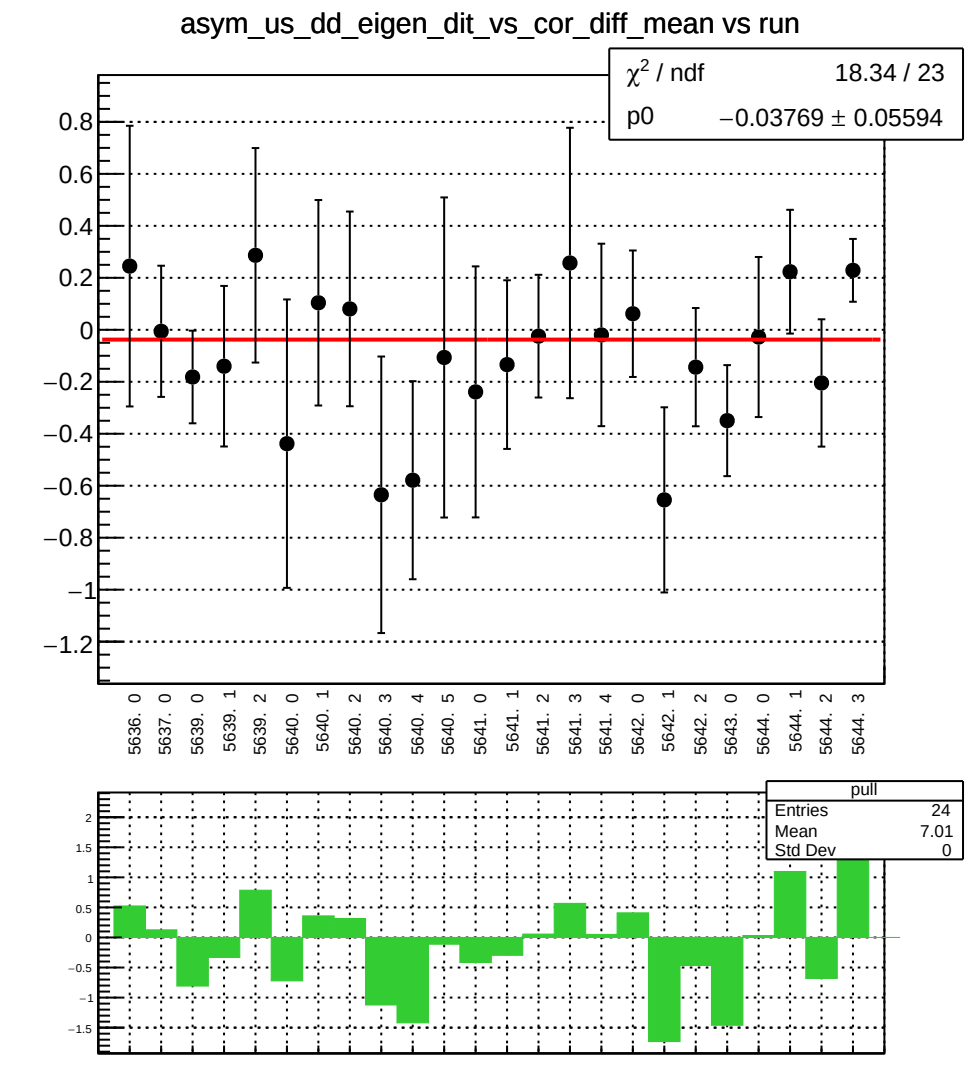

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 13.98 / 23
p0 −0.04968 ± 0.08068
1.5
1
0.5
0
−0.5
−1
−1.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 20.38
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

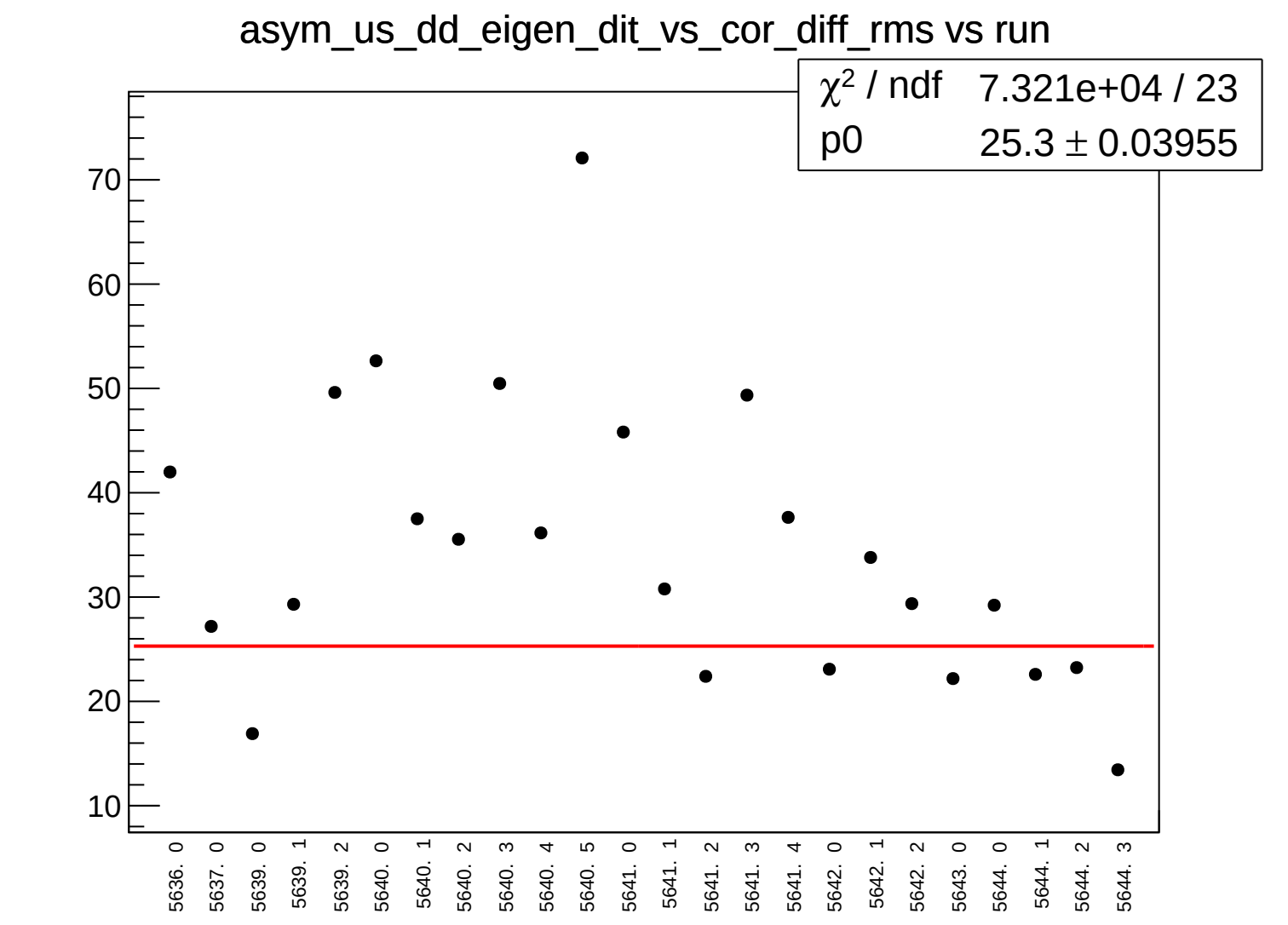

pull1D
Entries 24
Mean −0.07325
Std Dev 0.7598
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

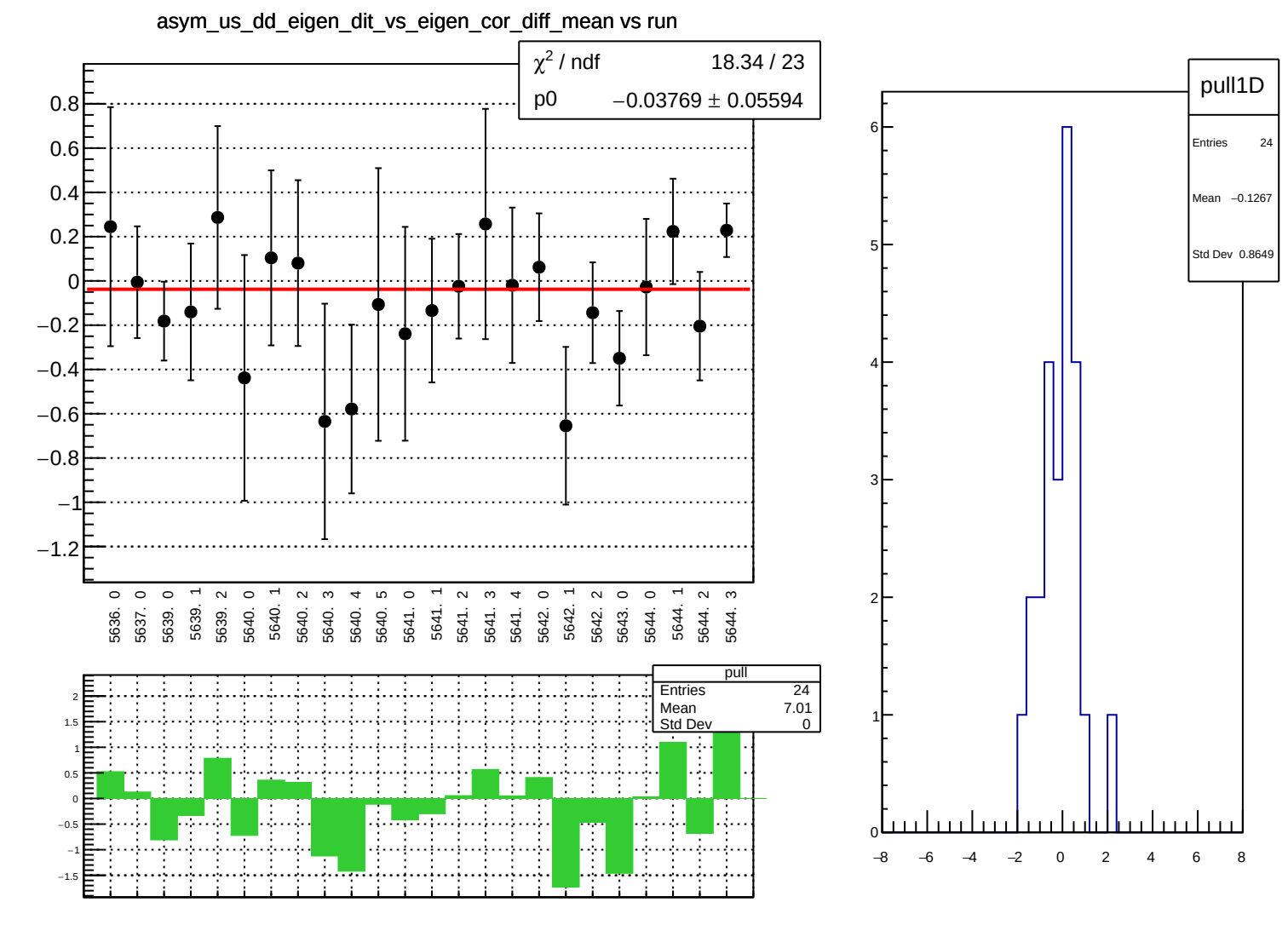

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.339e+04 / 23
p0 37.79 ± 0.05705
80
70
60
50
40
30
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

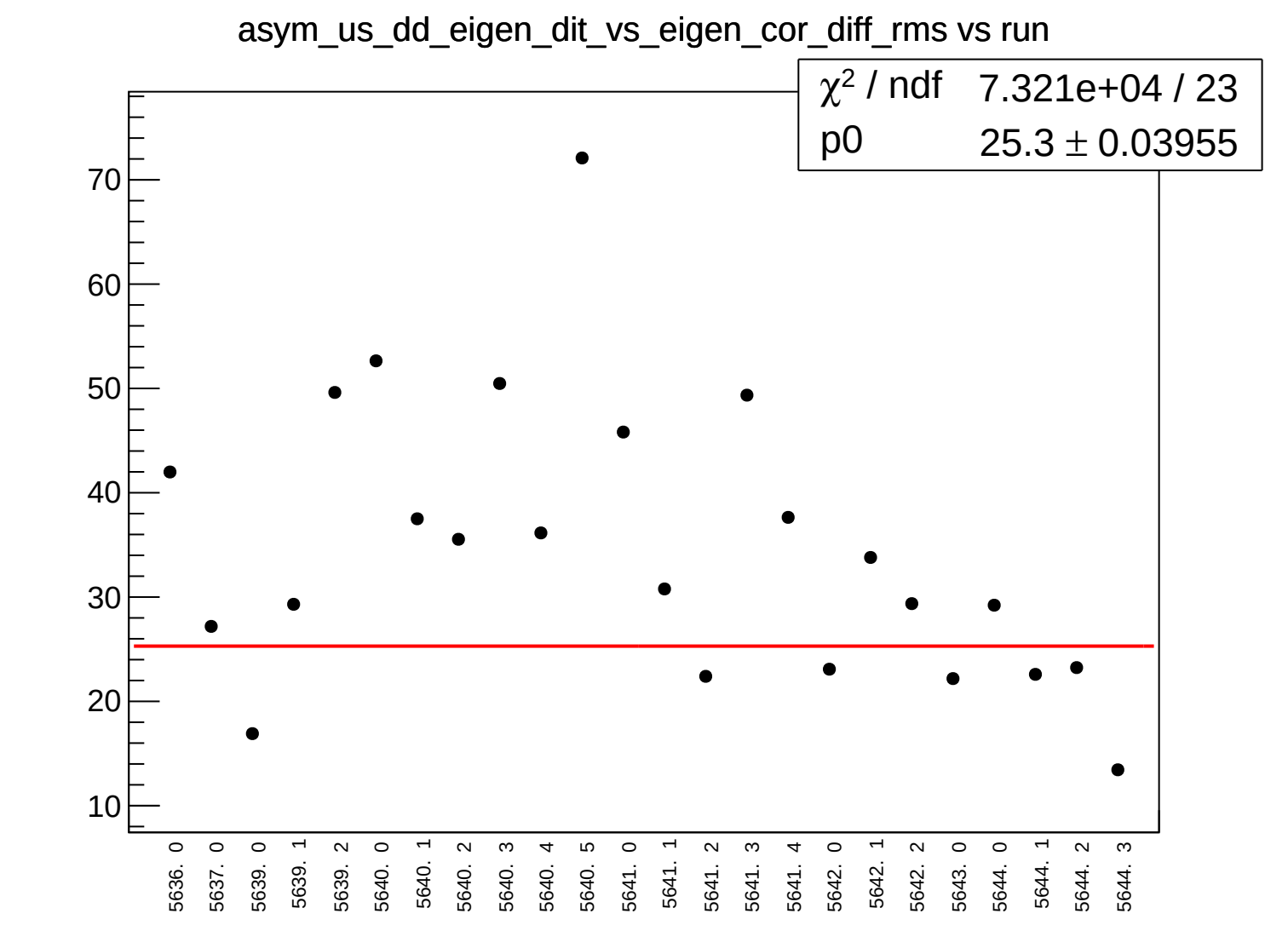

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 18.85 / 23
p0 1.494e−05 ± 2.575e−05
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −130
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.01749
Std Dev 0.8861
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

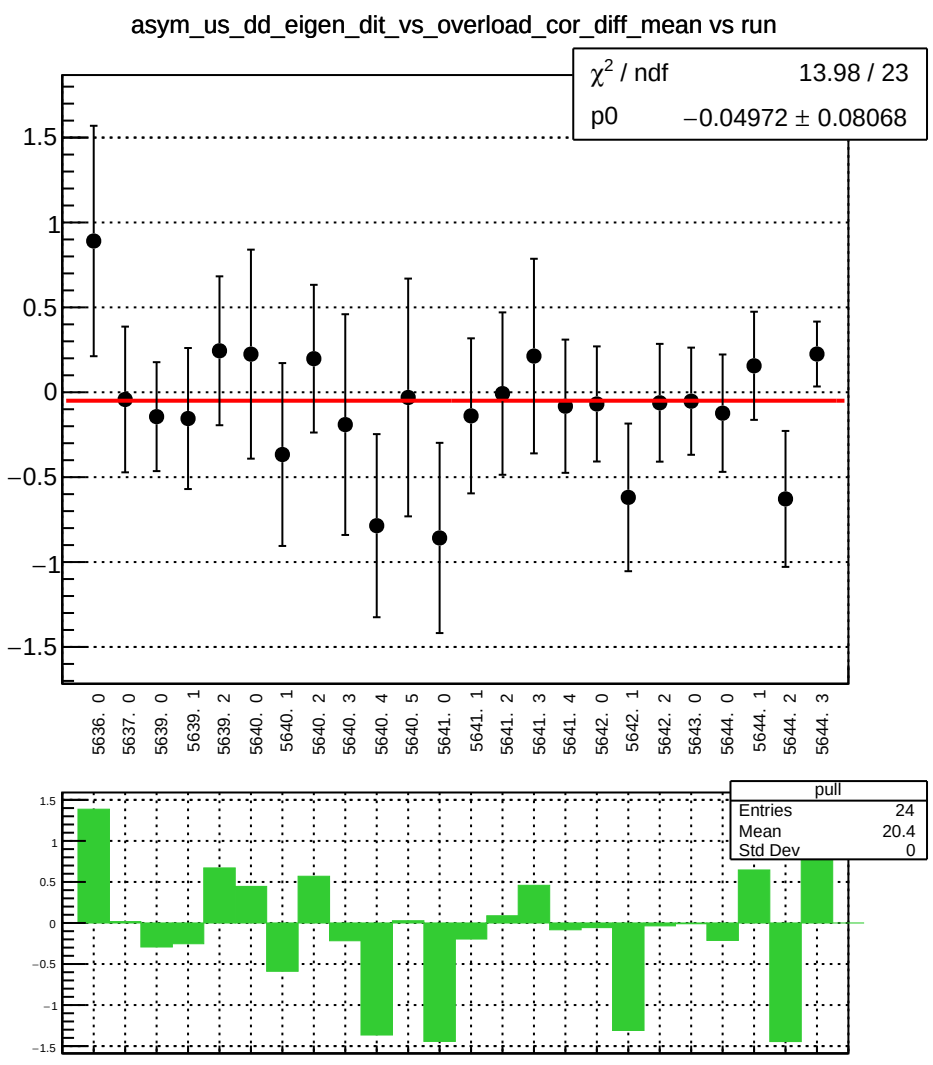

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1323 / 23
p0 0.01263 ± 1.821e–05
0.0145
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

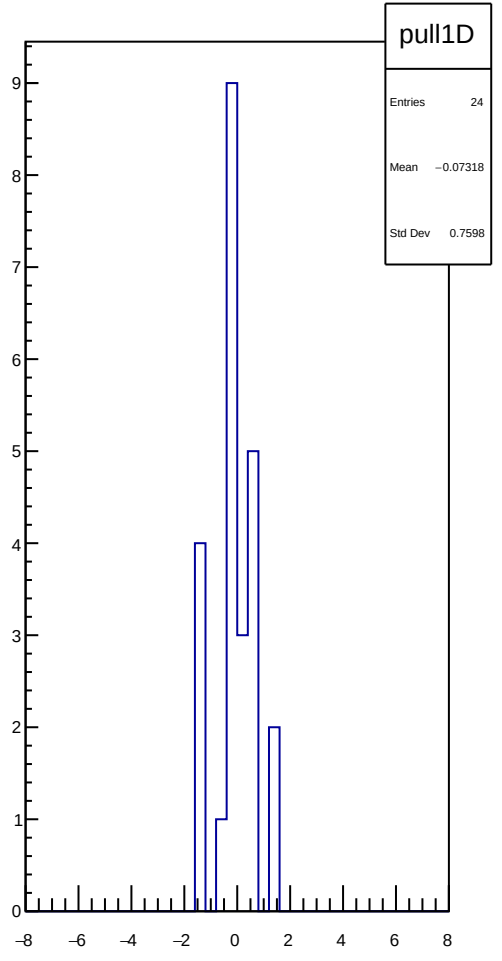

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 18.34 / 23
p0 −0.03769 ± 0.05594
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 7.01
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.1267
Std Dev 0.8649
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

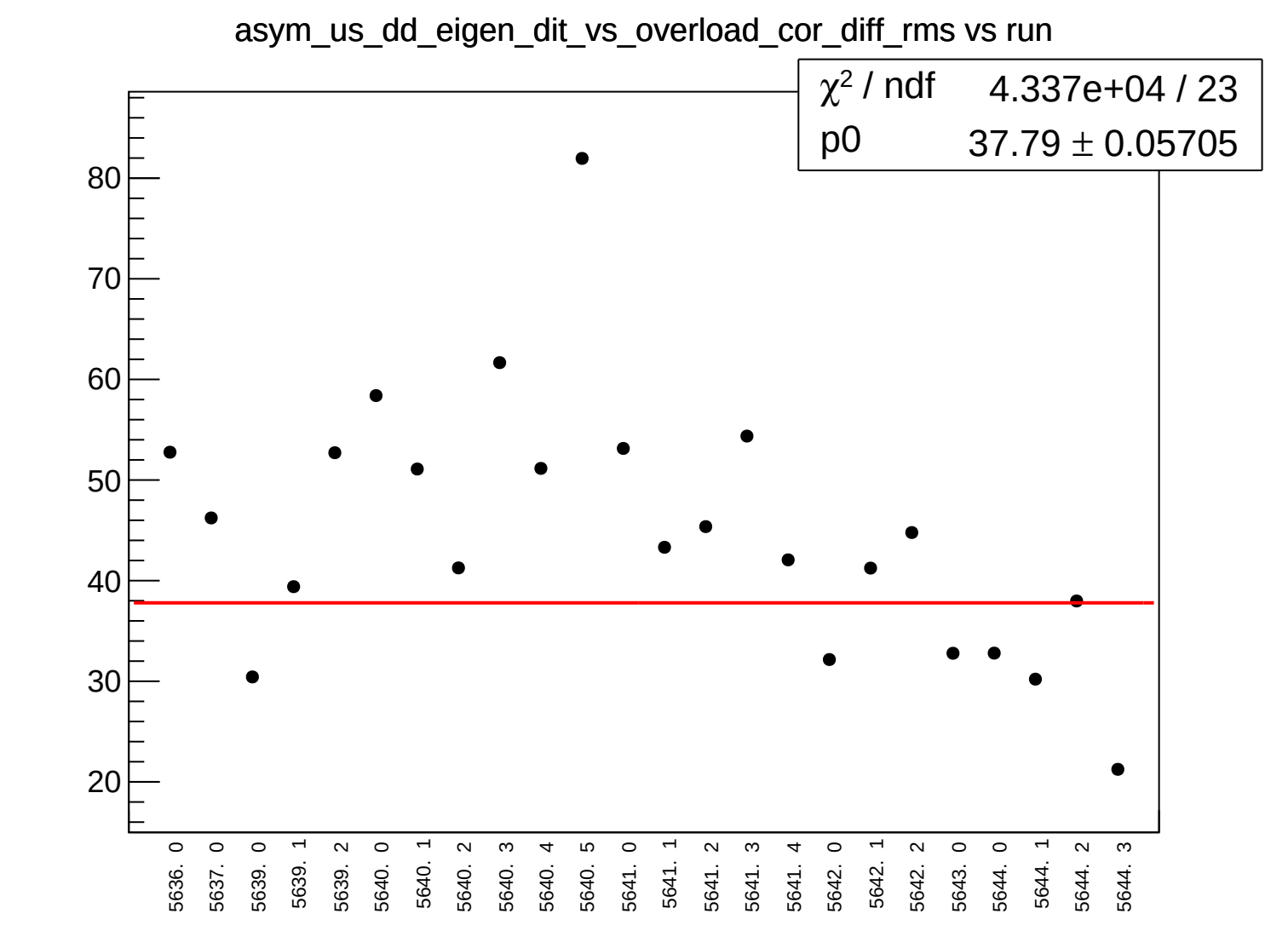

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.321e+04 / 23
p0 25.3 ± 0.03955
70
60
50
40
30
20
10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

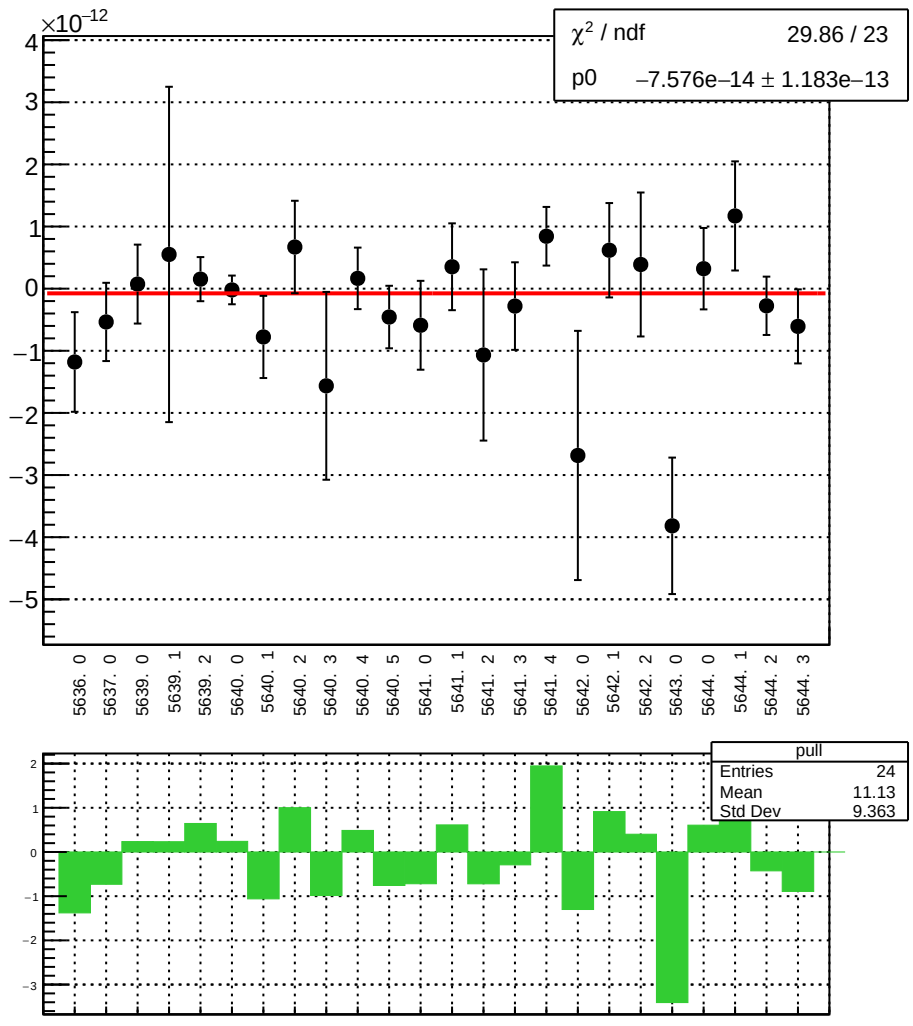

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 18.34 / 23
p0 −0.03769 ± 0.05594
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 7.01
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.1267
Std Dev 0.8649
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

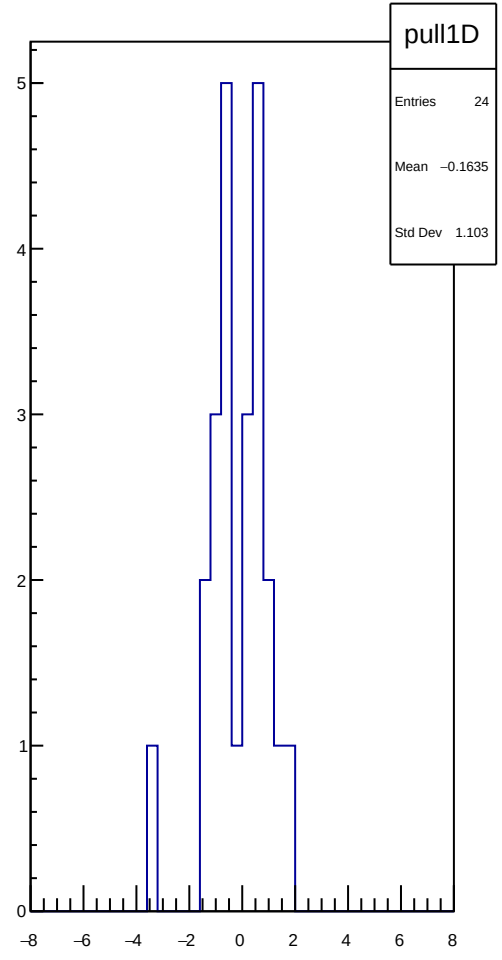

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.321e+04 / 23
p0 25.3 ± 0.03955
70
60
50
40
30
20
10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

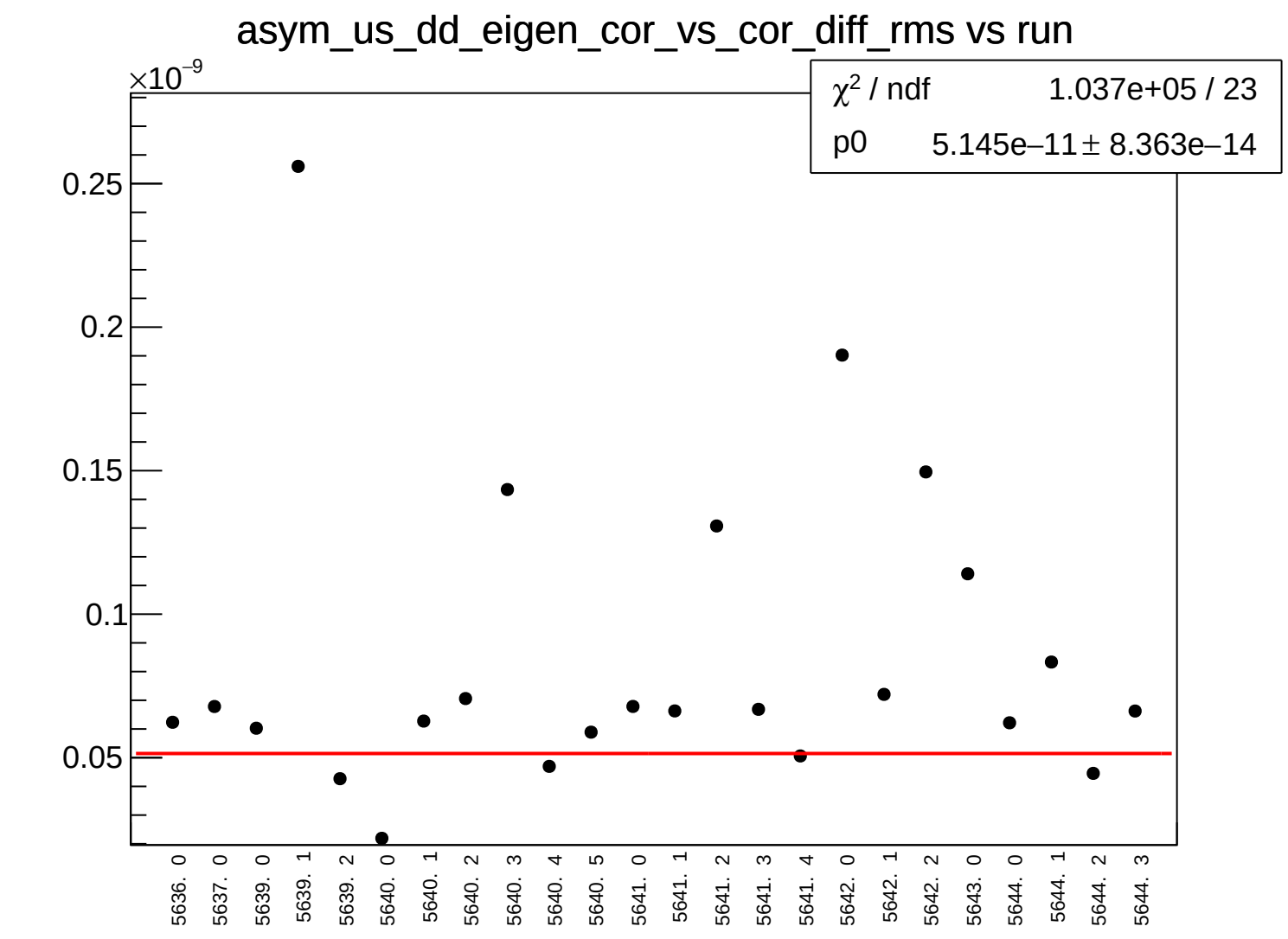

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 13.98 / 23
p0 −0.04972 ± 0.08068
1.5
1
0.5
0
−0.5
−1
−1.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 20.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

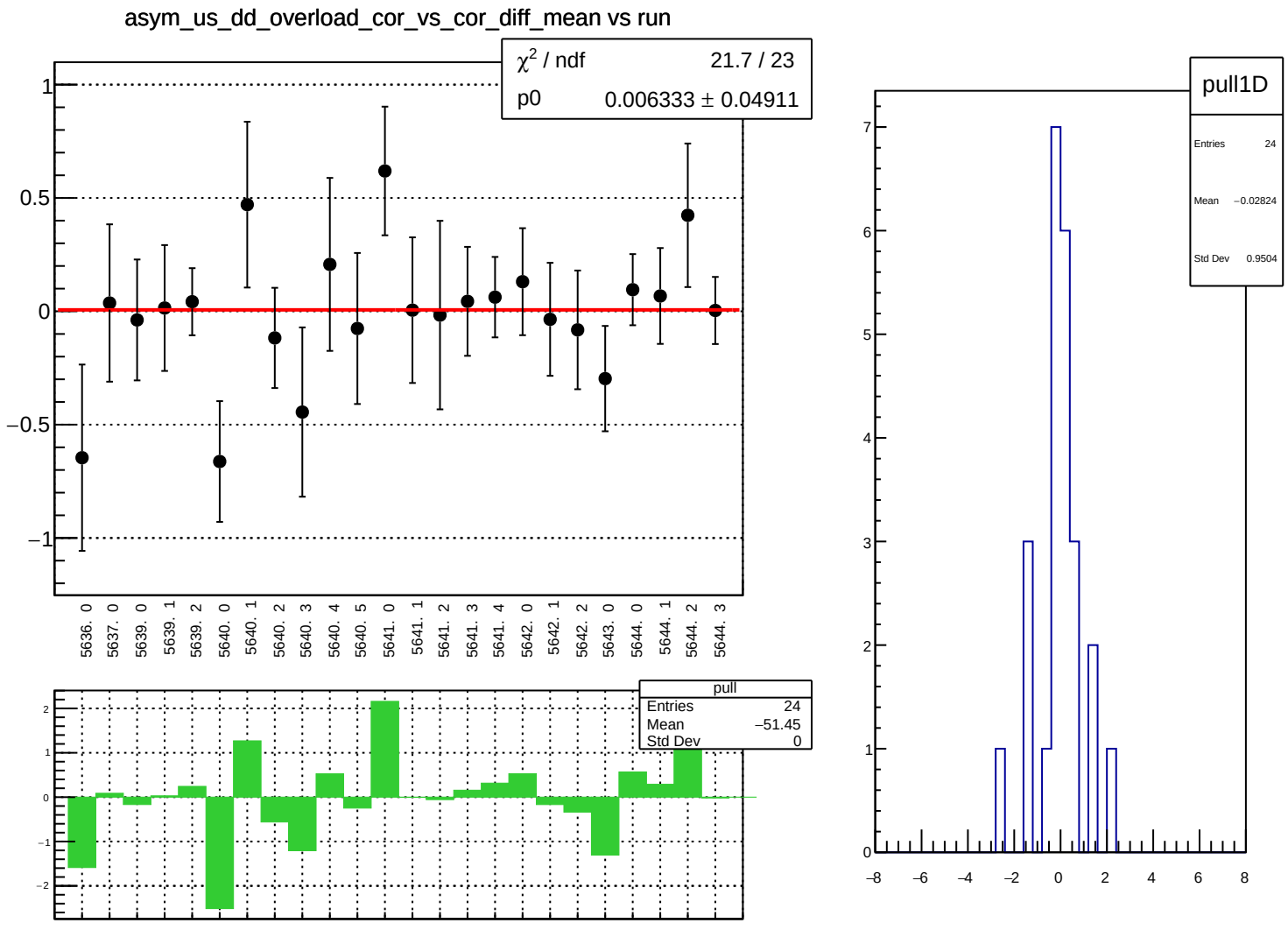

pull1D
Entries 24
Mean −0.07318
Std Dev 0.7598
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

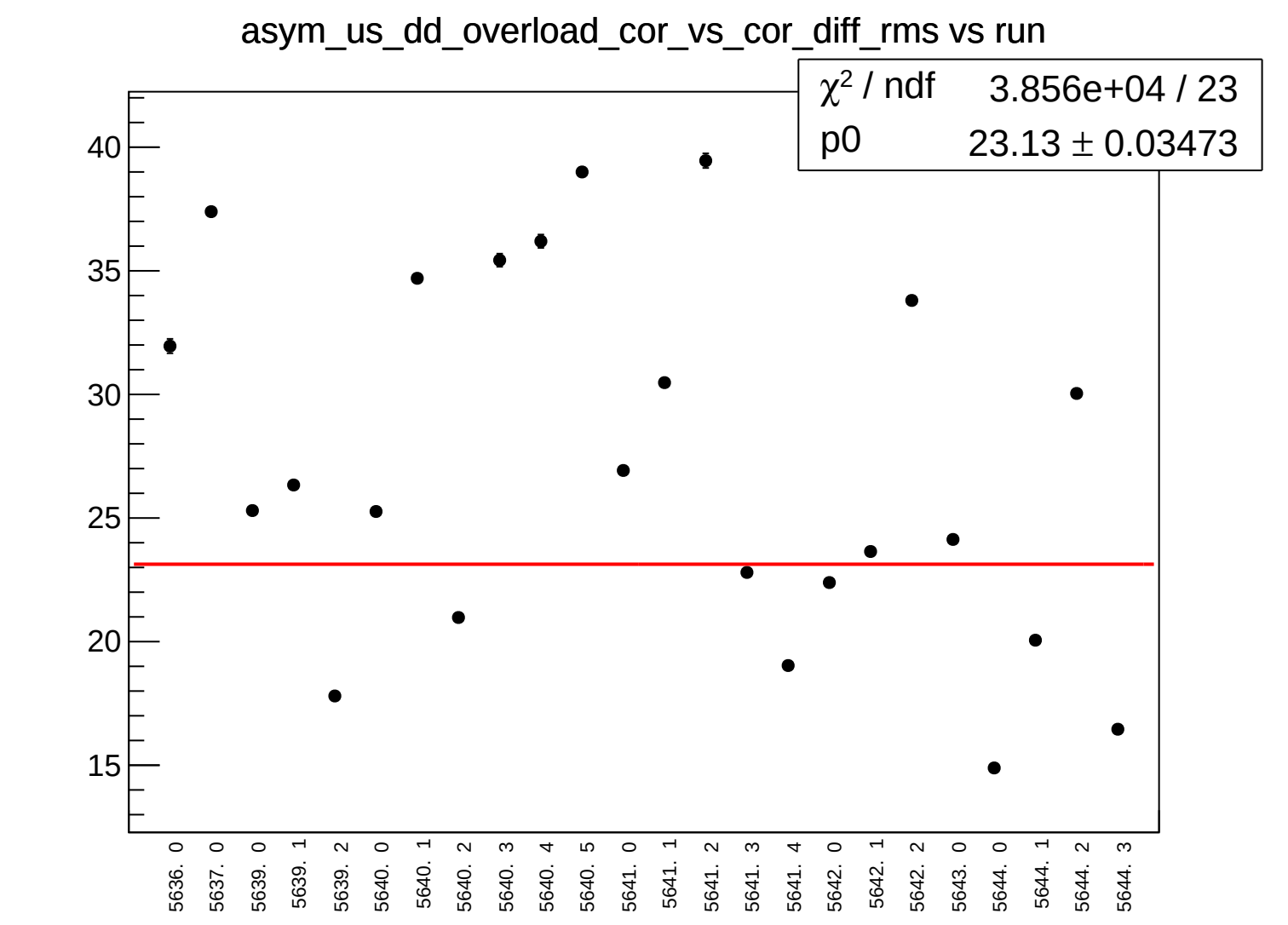

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.337e+04 / 23
p0 37.79 ± 0.05705
80
70
60
50
40
30
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

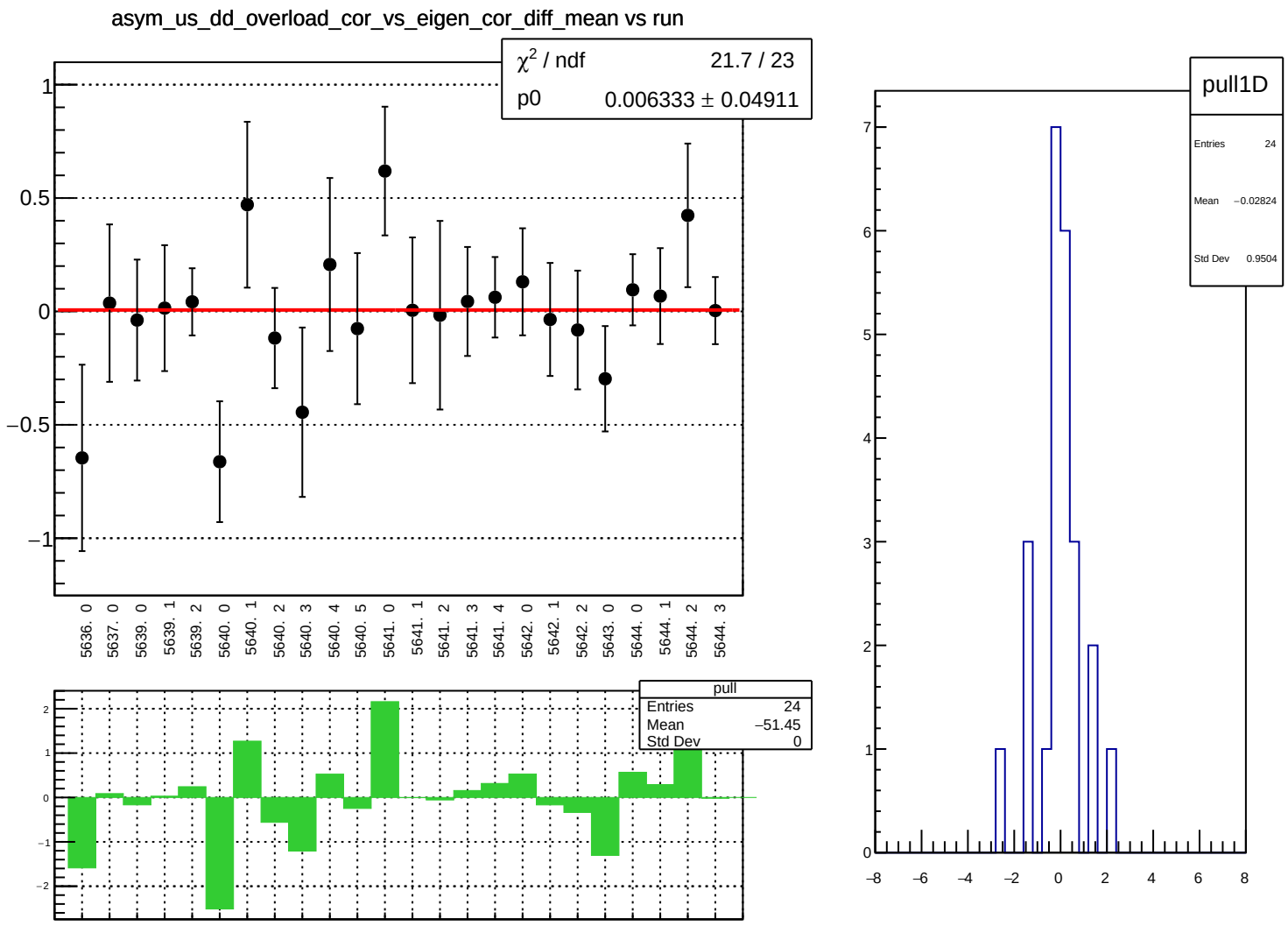

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 29.86 / 23
p0 −7.576e−14 ± 1.183e−13
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 11.13
Std Dev 9.363

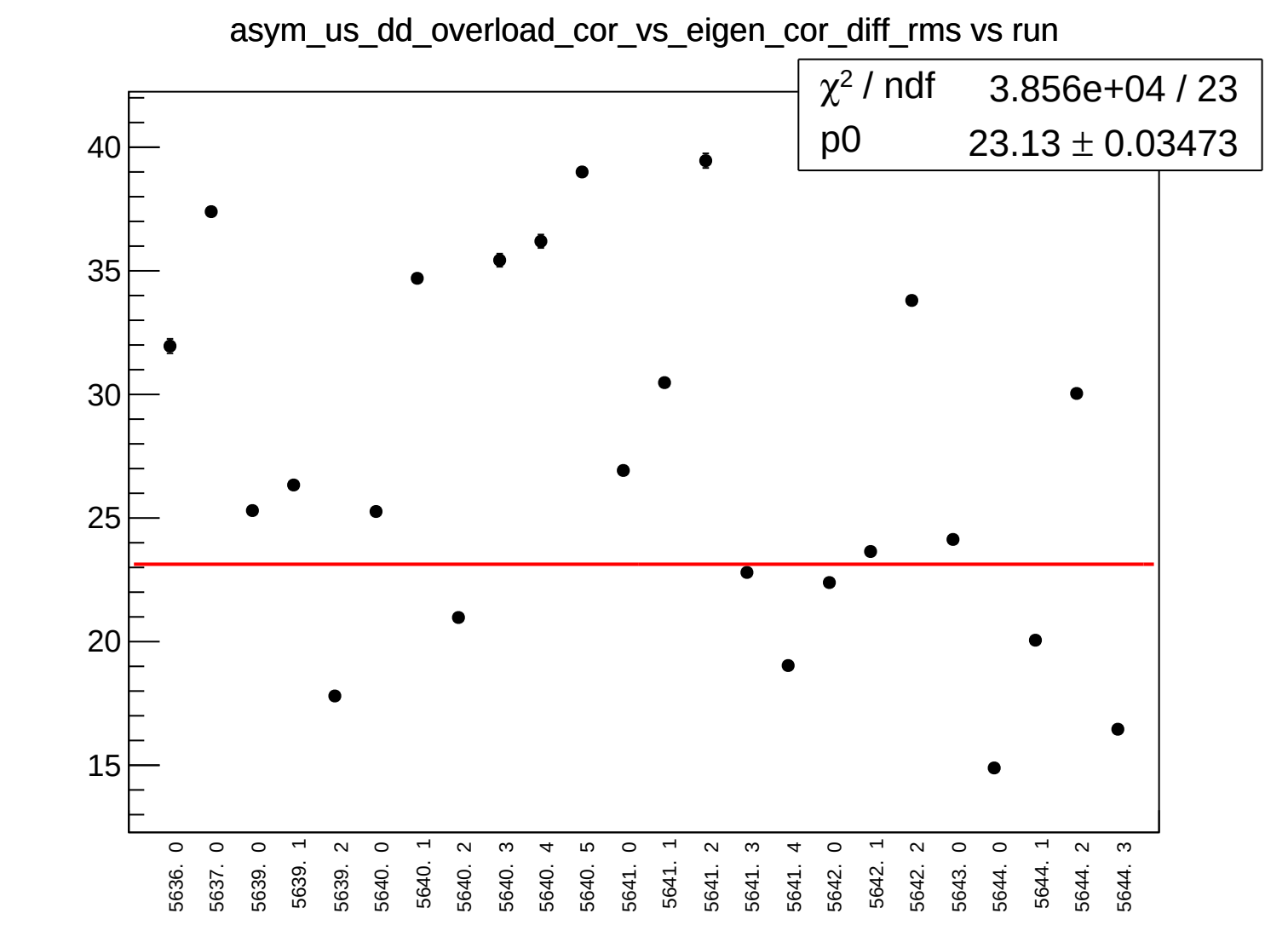

pull1D
Entries 24
Mean −0.1635
Std Dev 1.103


asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.037e+05 / 23
p0 5.145e−11 ± 8.363e−14
0.25
0.2
0.15
0.1
0.05
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 21.7 / 23
p0 0.006333 ± 0.04911
1
0.5
0
−0.5
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −51.45
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 24
Mean −0.02824
Std Dev 0.9504
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 3.856e+04 / 23
p0 23.13 ± 0.03473
40
35
30
25
20
15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 21.7 / 23
p0 0.006333 ± 0.04911
1
0.5
0
−0.5
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −51.45
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 24
Mean −0.02824
Std Dev 0.9504
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.856e+04 / 23
p0 23.13 ± 0.03473
40
35
30
25
20
15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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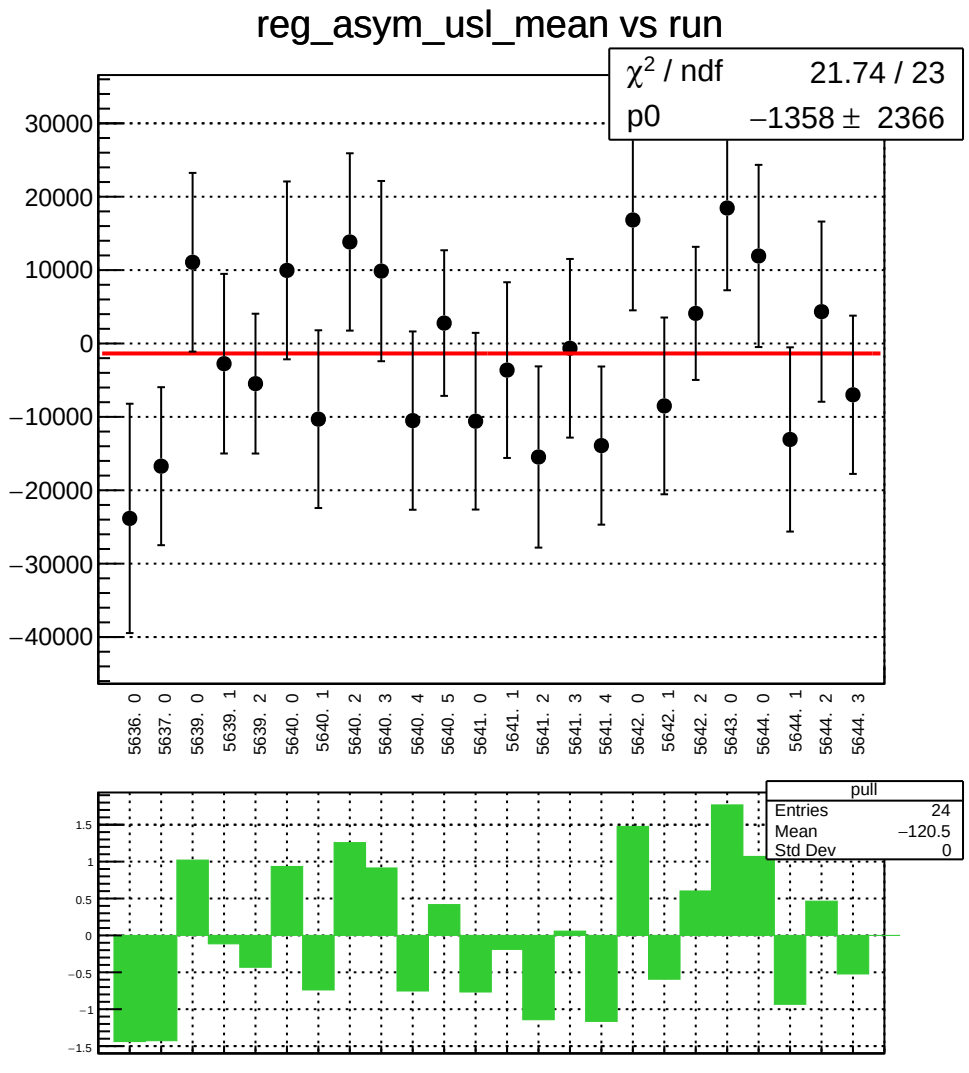
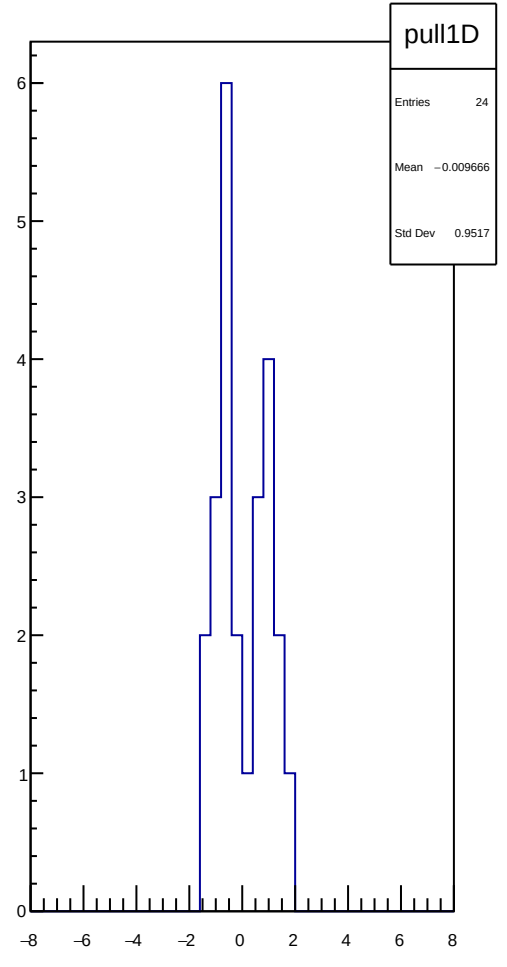
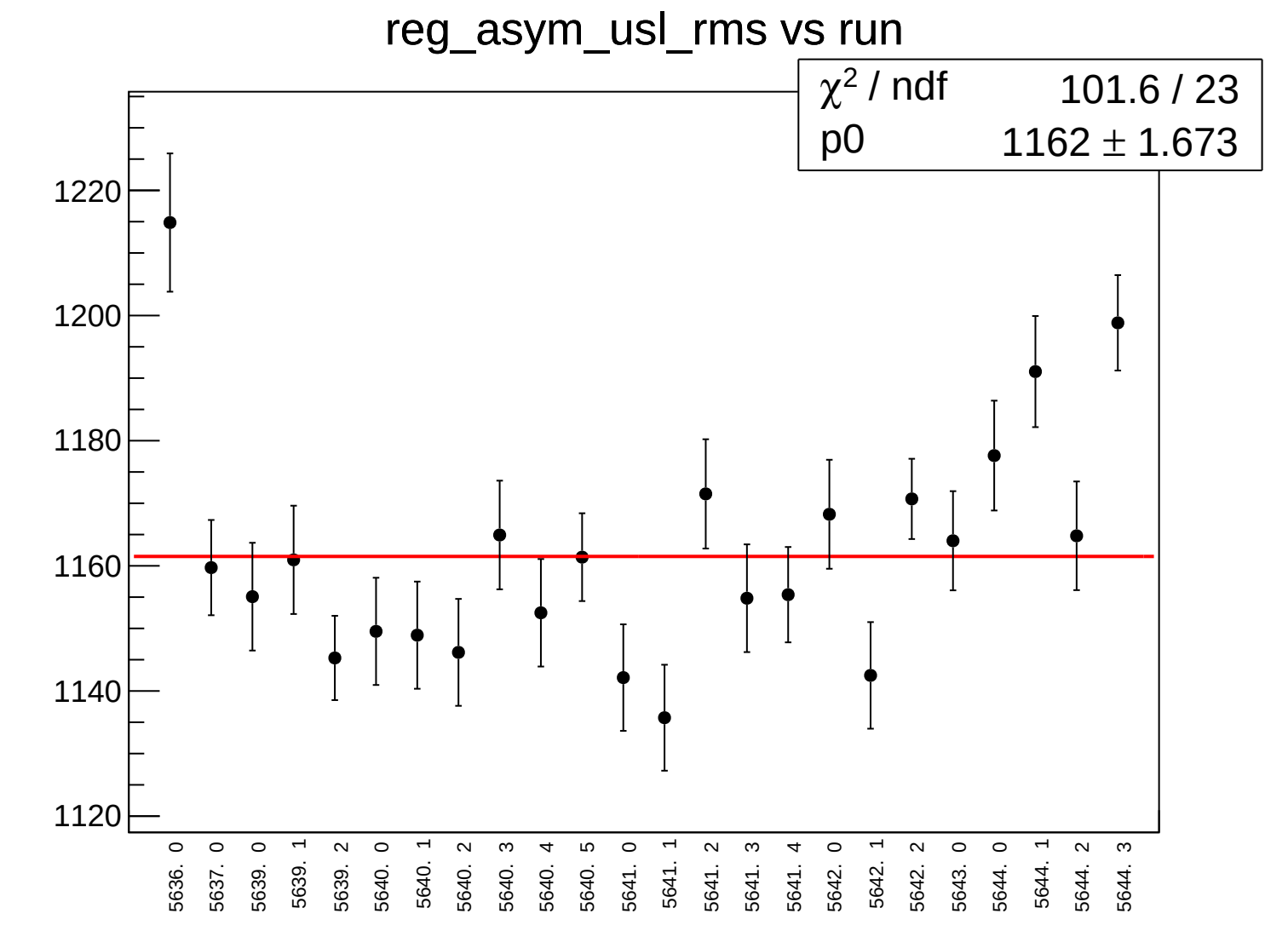
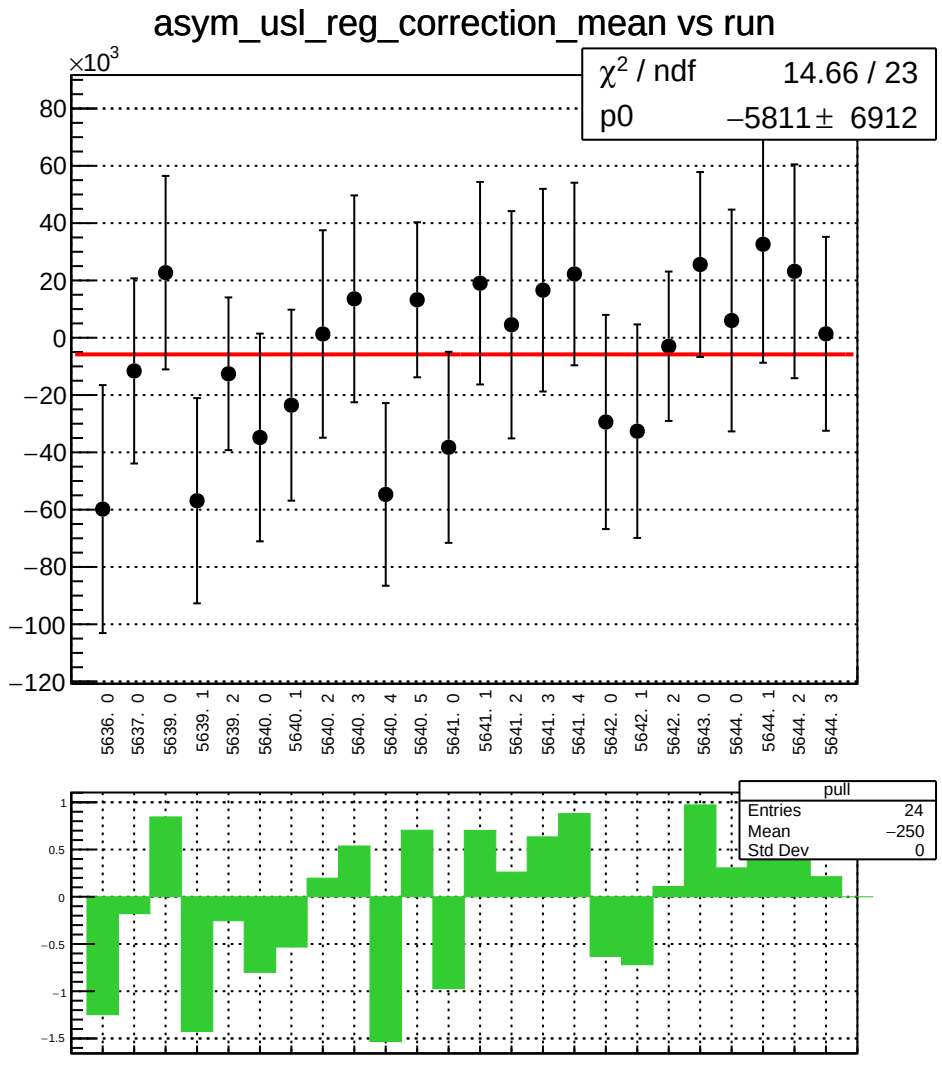
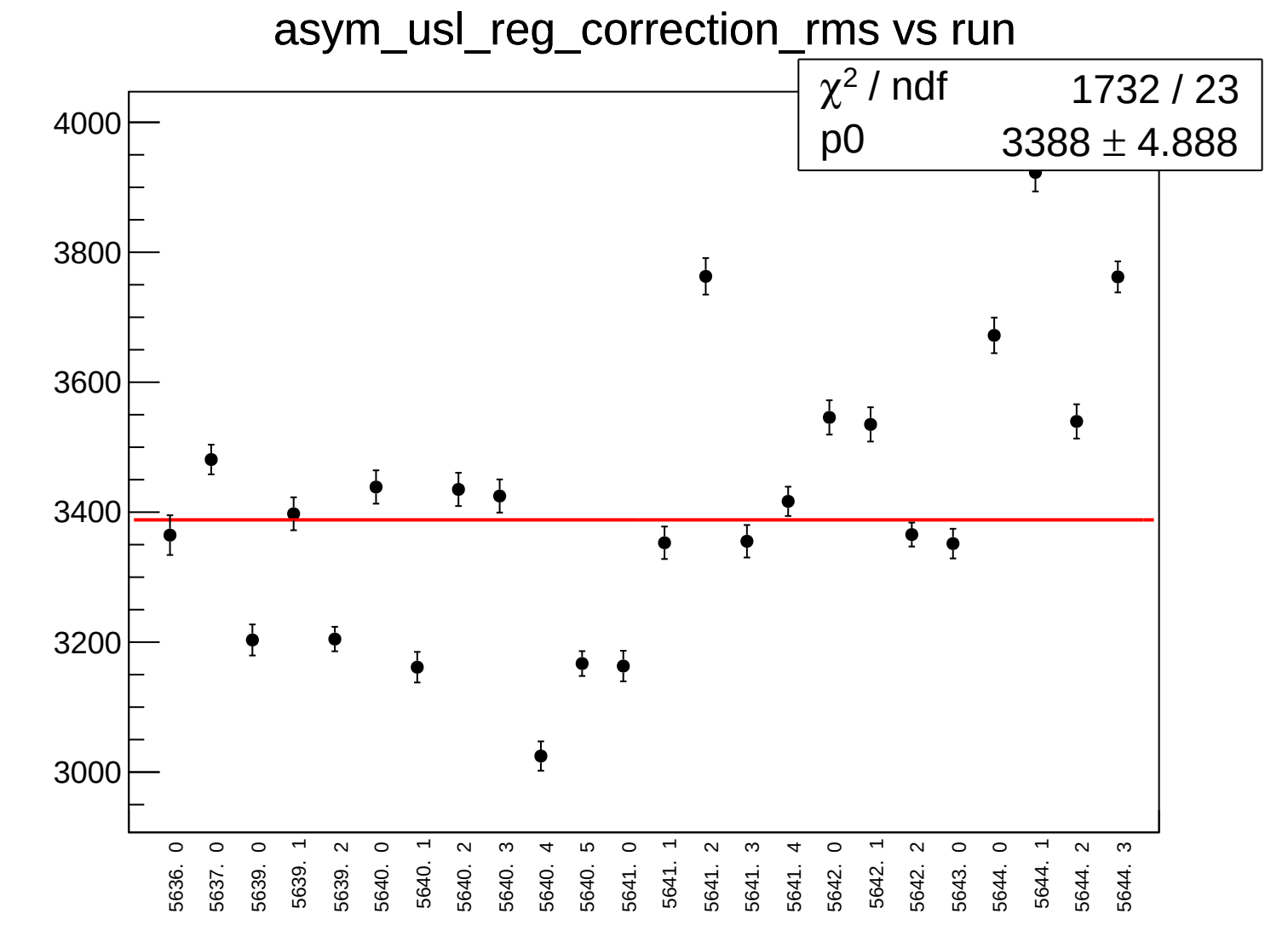
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

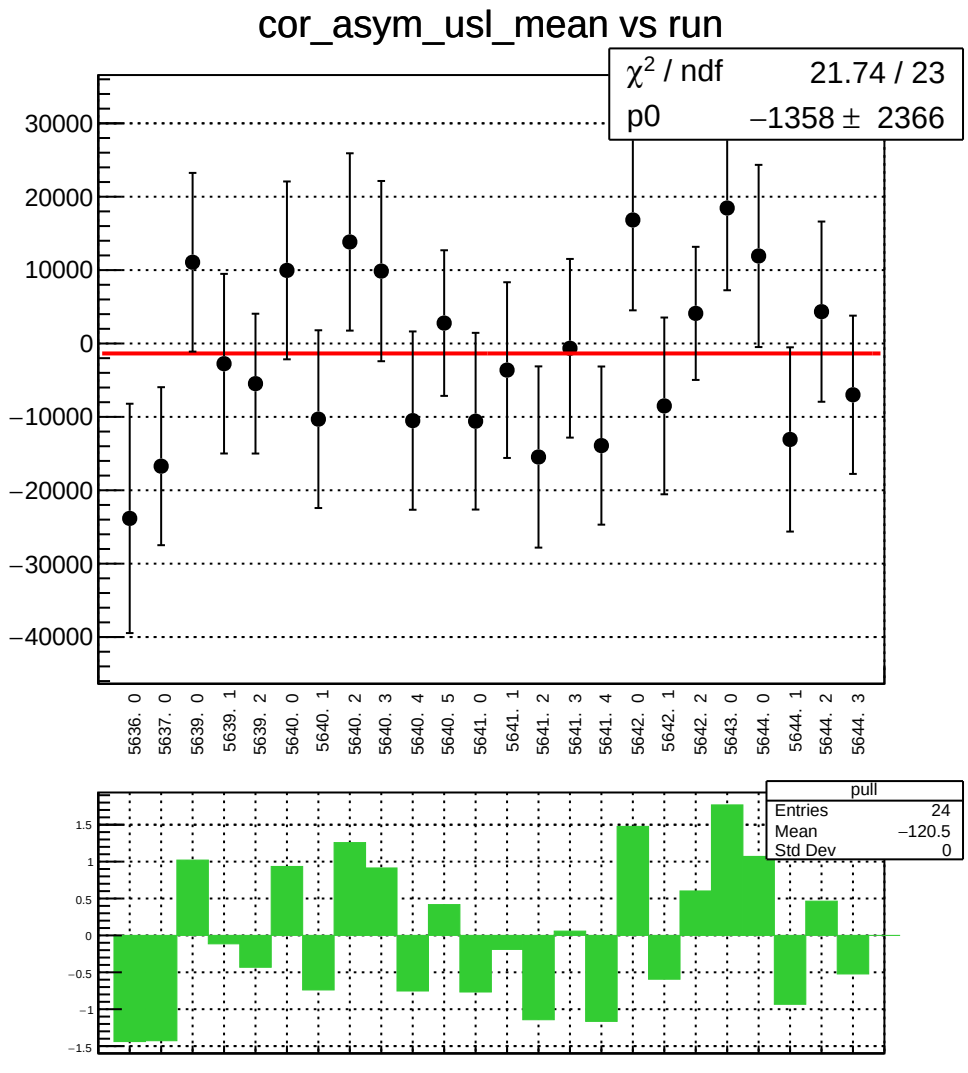

reg_asym_usl_mean vs run
χ² / ndf 21.74 / 23
p0 −1358 ± 2366
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −120.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

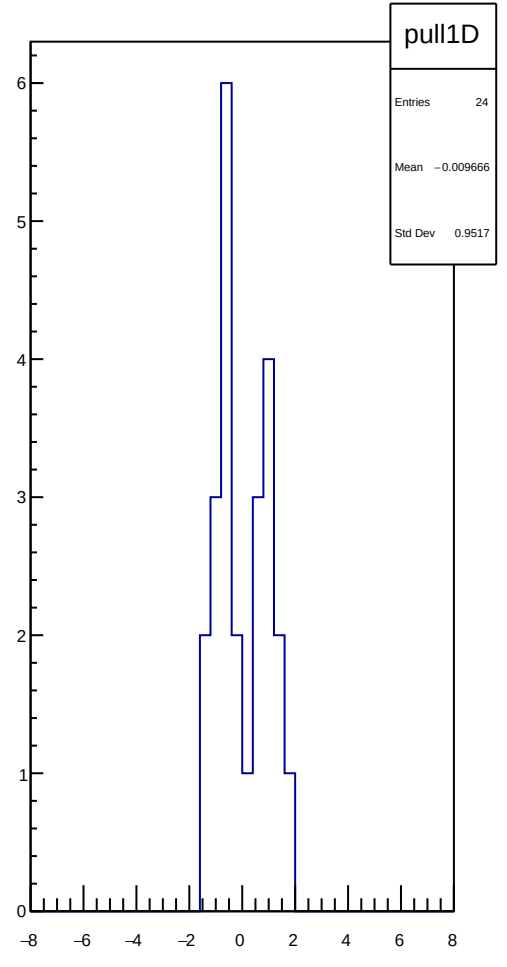

pull1D
Entries 24
Mean −0.009666
Std Dev 0.9517
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

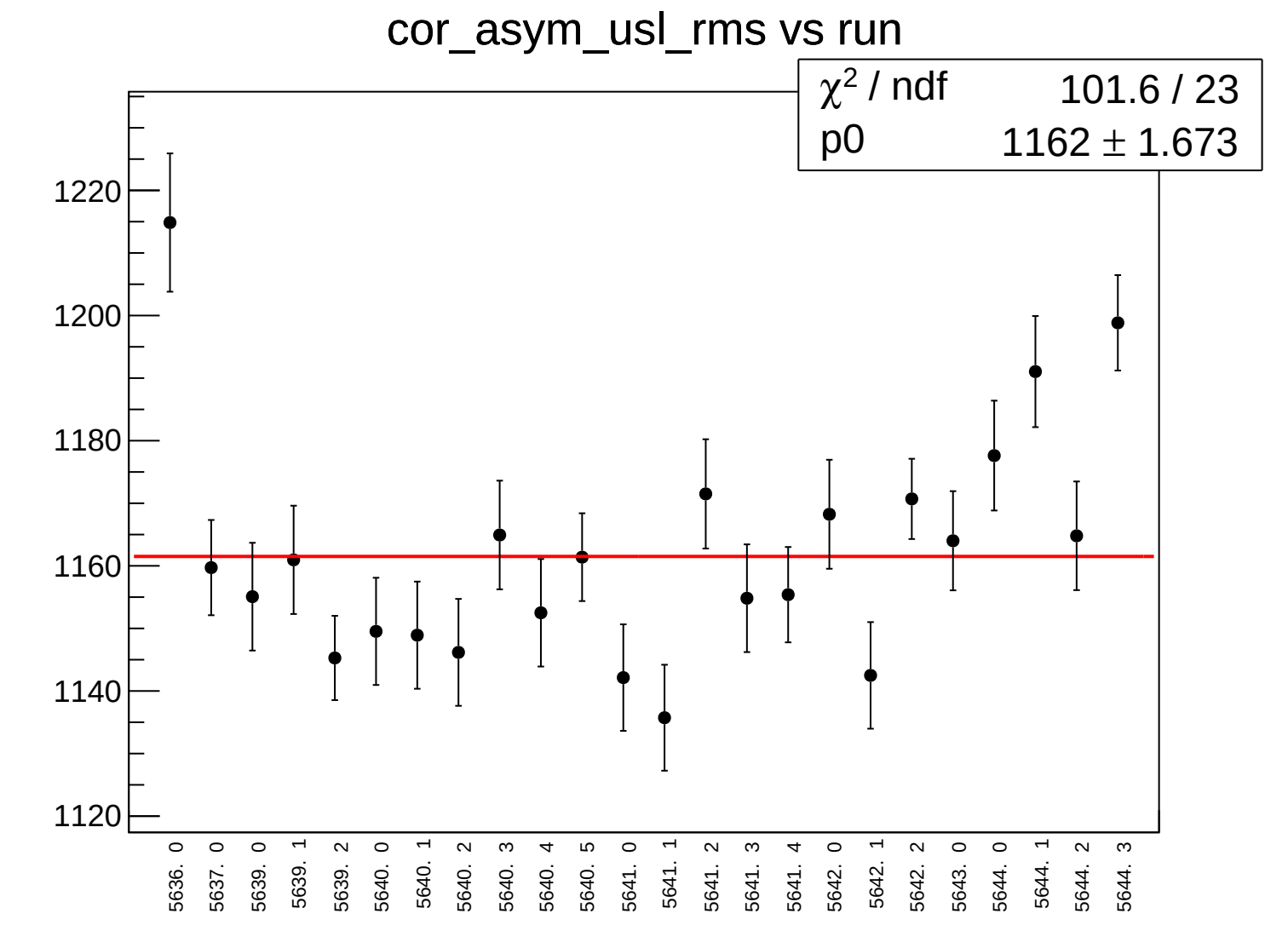

reg_asym_usl_rms vs run
χ² / ndf 101.6 / 23
p0 1162 ± 1.673
1220
1200
1180
1160
1140
1120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

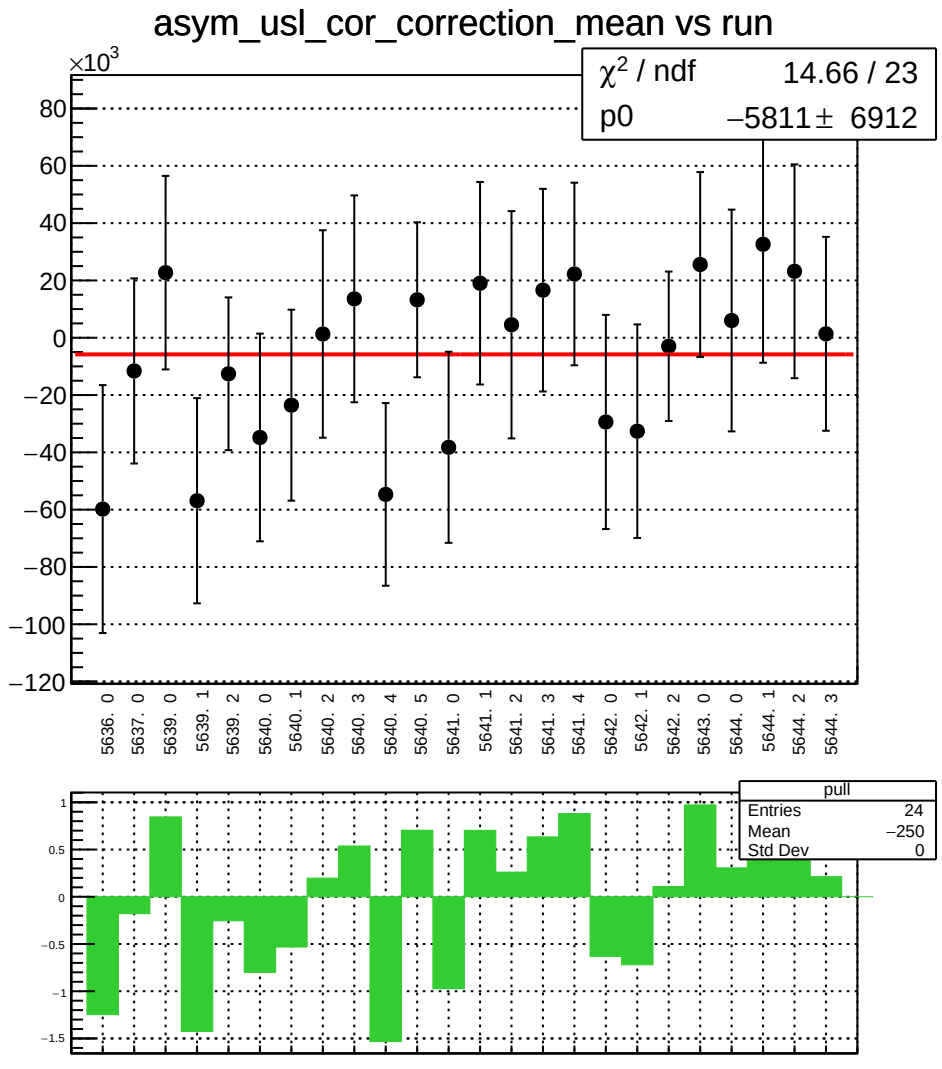

asym_usl_reg_correction_mean vs run
×10^3
χ^2 / ndf 14.66 / 23
p0 −5811 ± 6912
80
60
40
20
0
−20
−40
−60
−80
−100
−120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −250
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.009459
Std Dev 0.7815
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

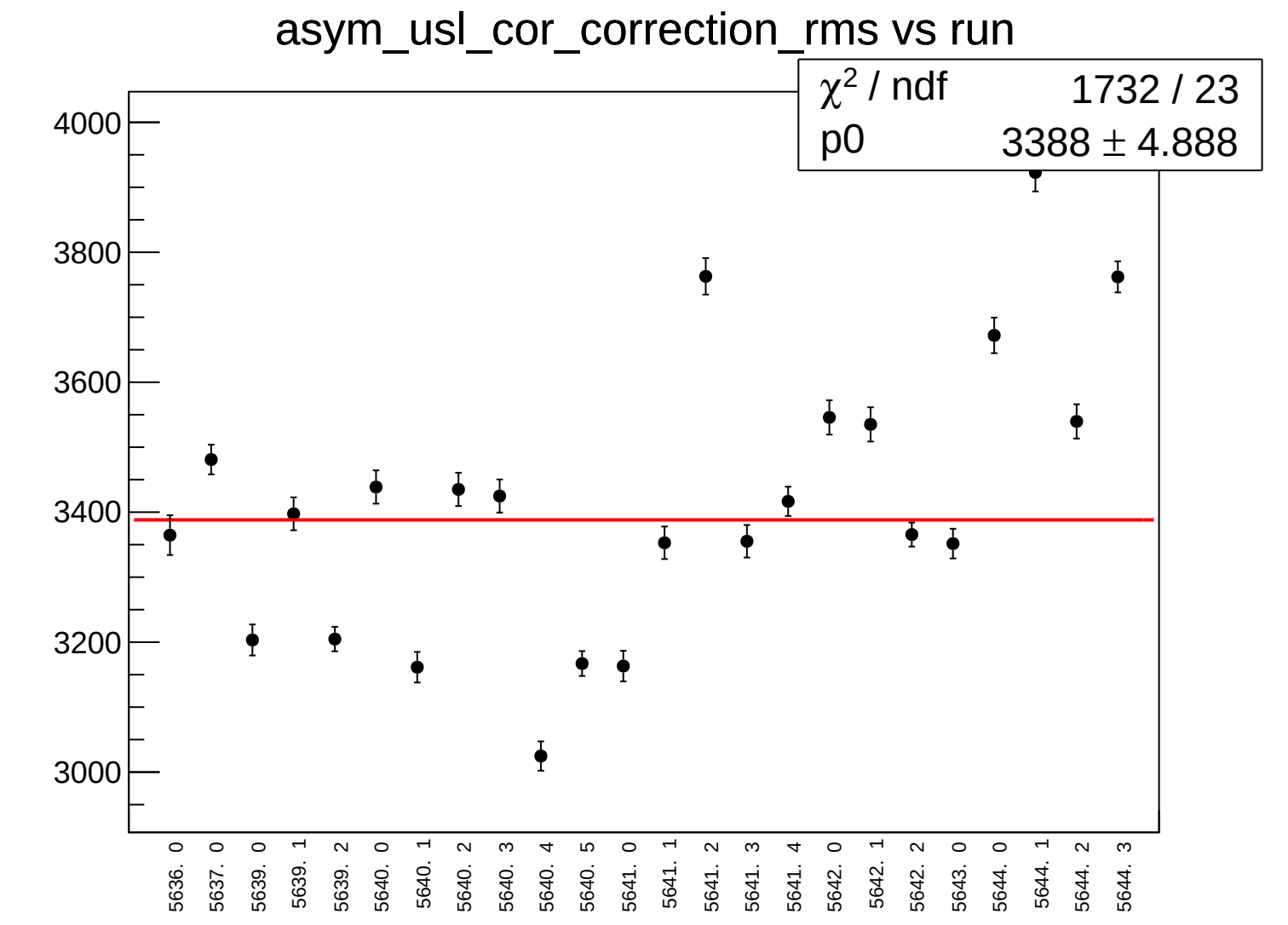

asym_usl_reg_correction_rms vs run
χ² / ndf 1732 / 23
p0 3388 ± 4.888
4000
3800
3600
3400
3200
3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

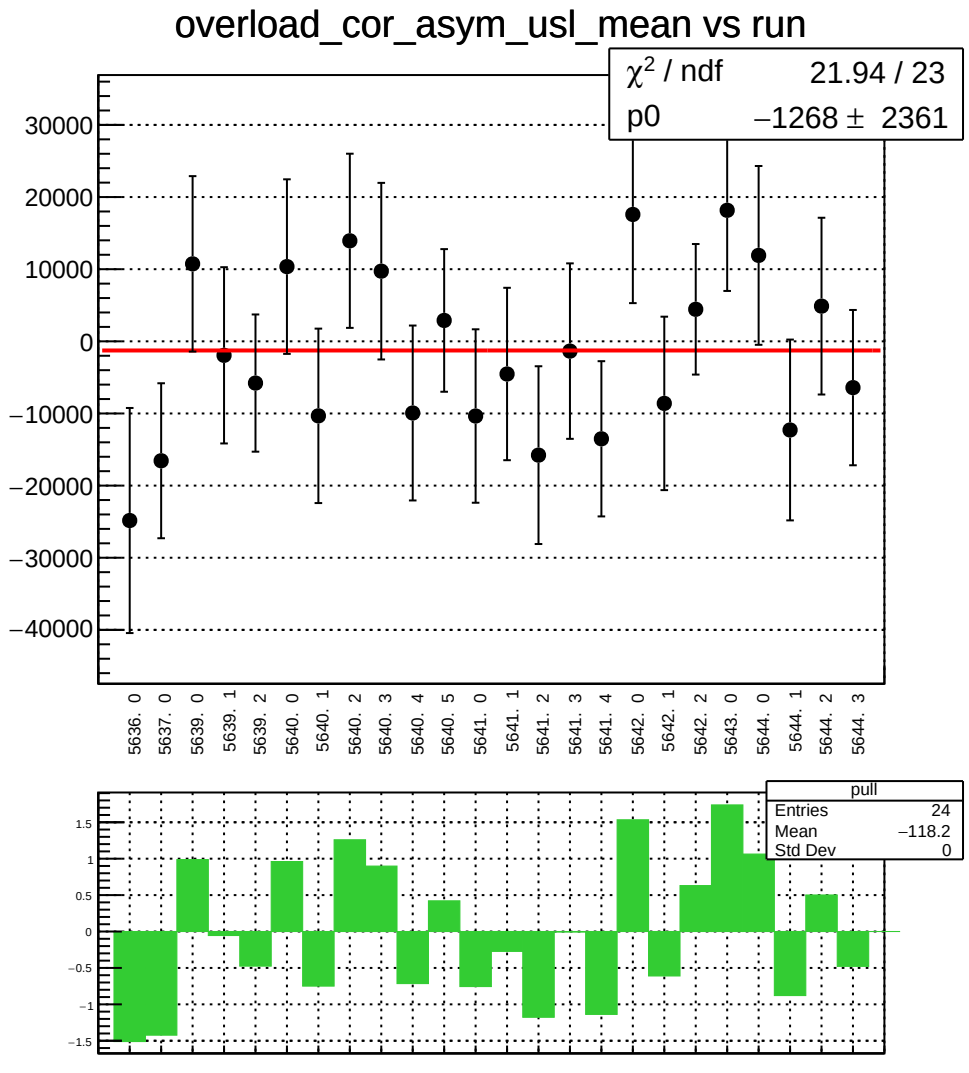

cor_asym_usl_mean vs run
χ² / ndf 21.74 / 23
p0 −1358 ± 2366
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −120.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

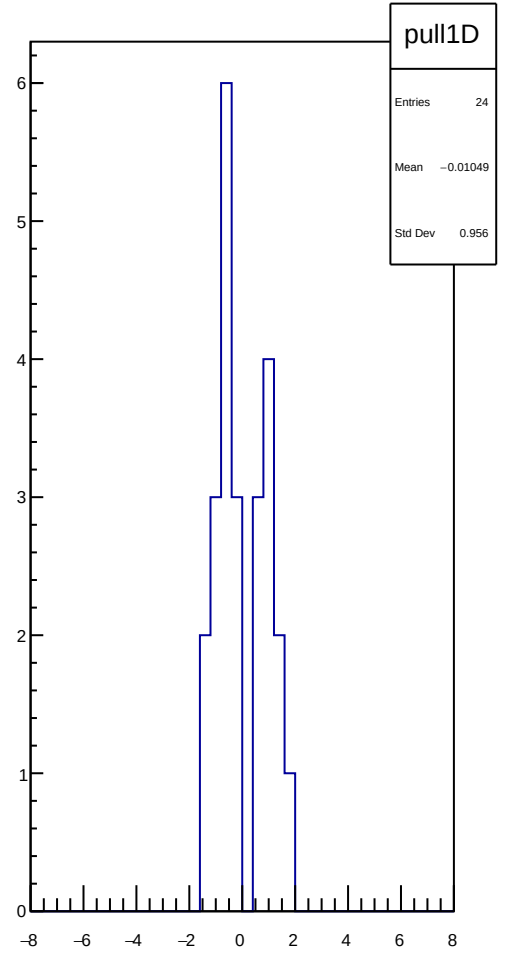

pull1D
Entries 24
Mean −0.009666
Std Dev 0.9517
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

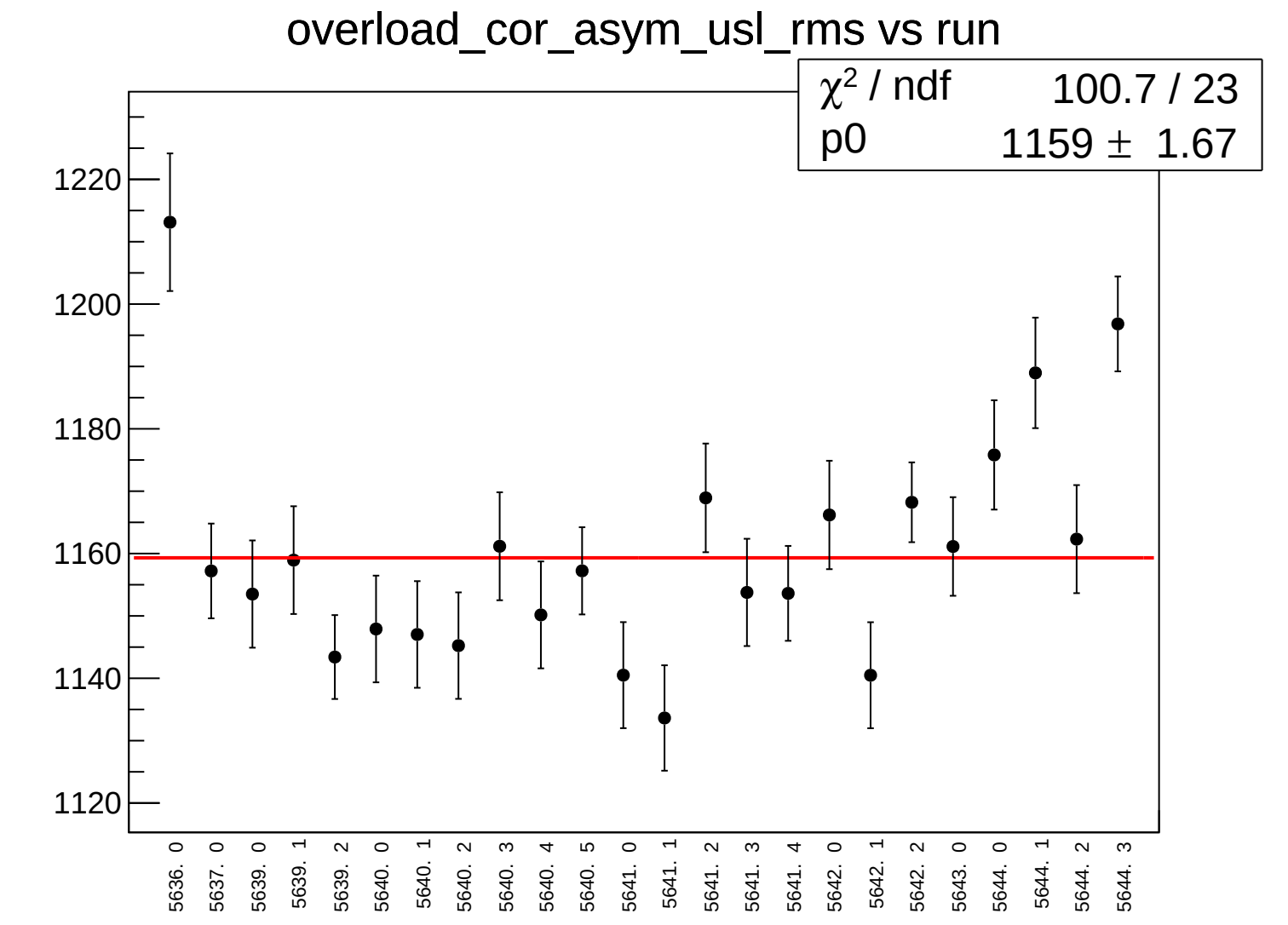

cor_asym_usl_rms vs run
χ² / ndf 101.6 / 23
p0 1162 ± 1.673
1220
1200
1180
1160
1140
1120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

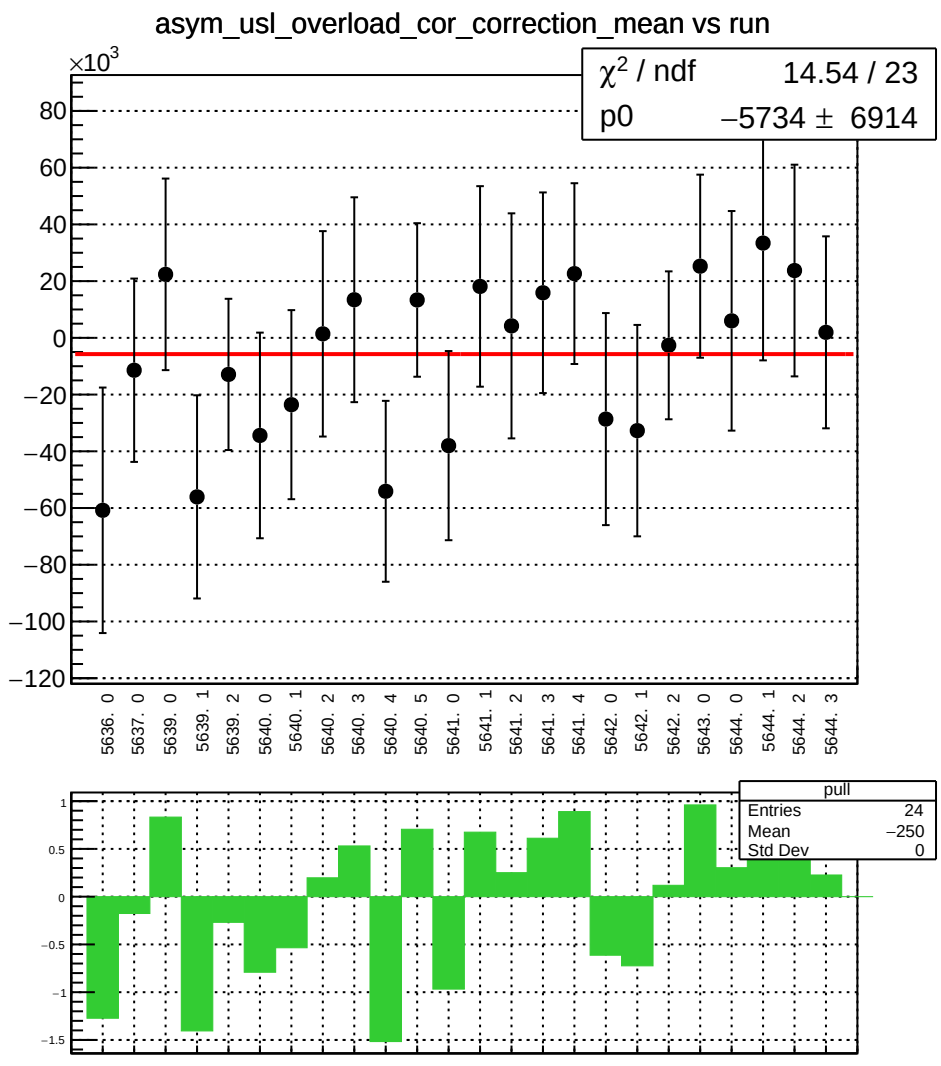

asym_usl_cor_correction_mean vs run
×10^3
χ^2 / ndf 14.66 / 23
p0 −5811 ± 6912
80
60
40
20
0
−20
−40
−60
−80
−100
−120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −250
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.009459
Std Dev 0.7815
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

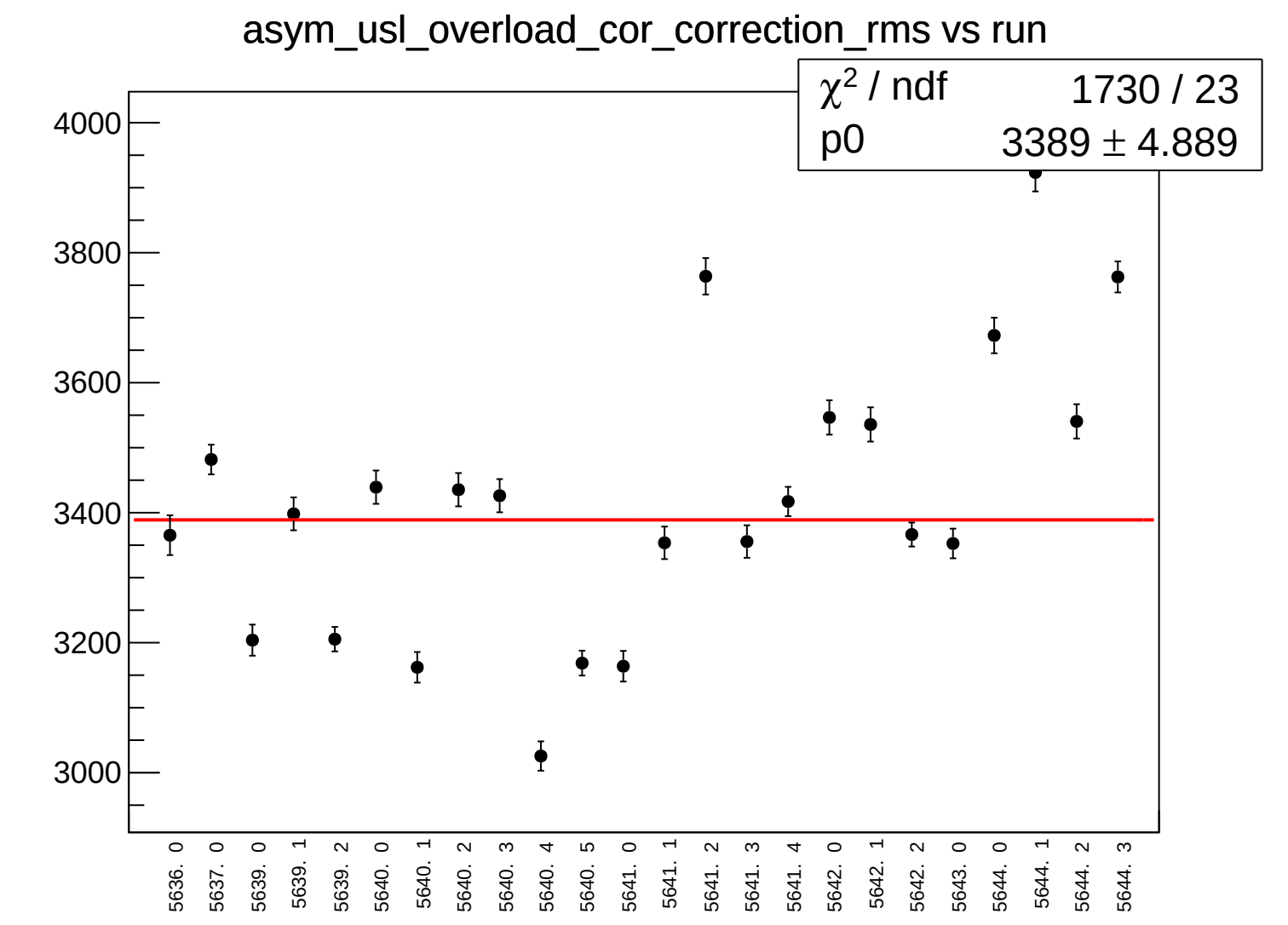

asym_usl_cor_correction_rms vs run
χ² / ndf 1732 / 23
p0 3388 ± 4.888
4000
3800
3600
3400
3200
3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

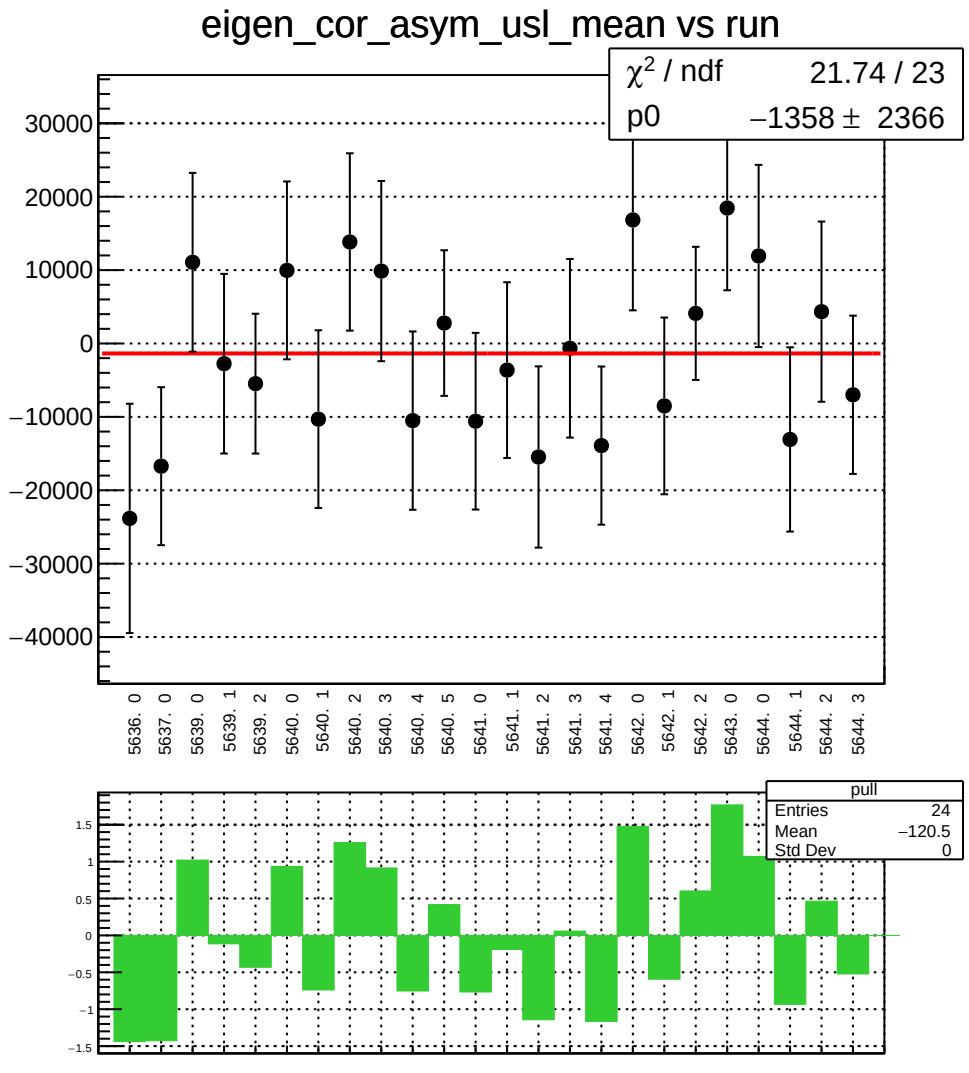

overload_cor_asym_usl_mean vs run
χ² / ndf 21.94 / 23
p0 −1268 ± 2361
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −118.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

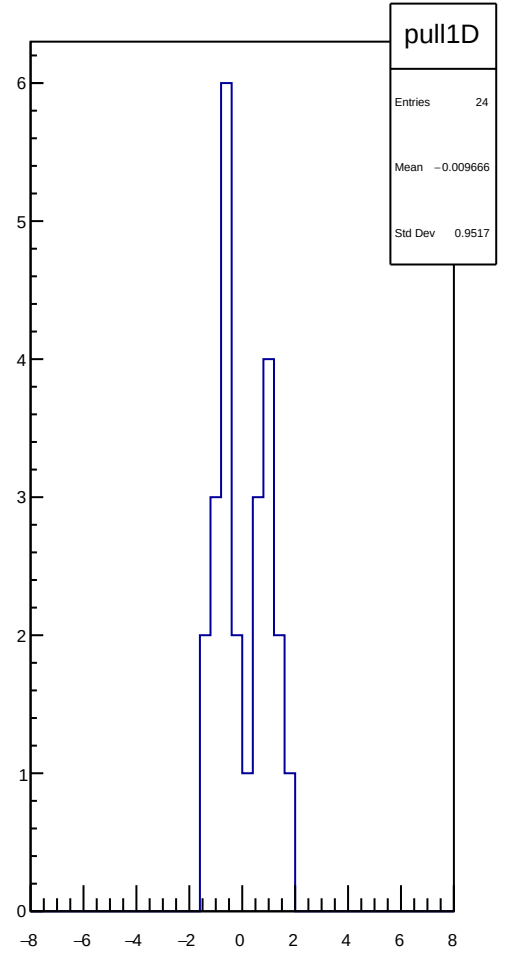

pull1D
Entries 24
Mean −0.01049
Std Dev 0.956
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

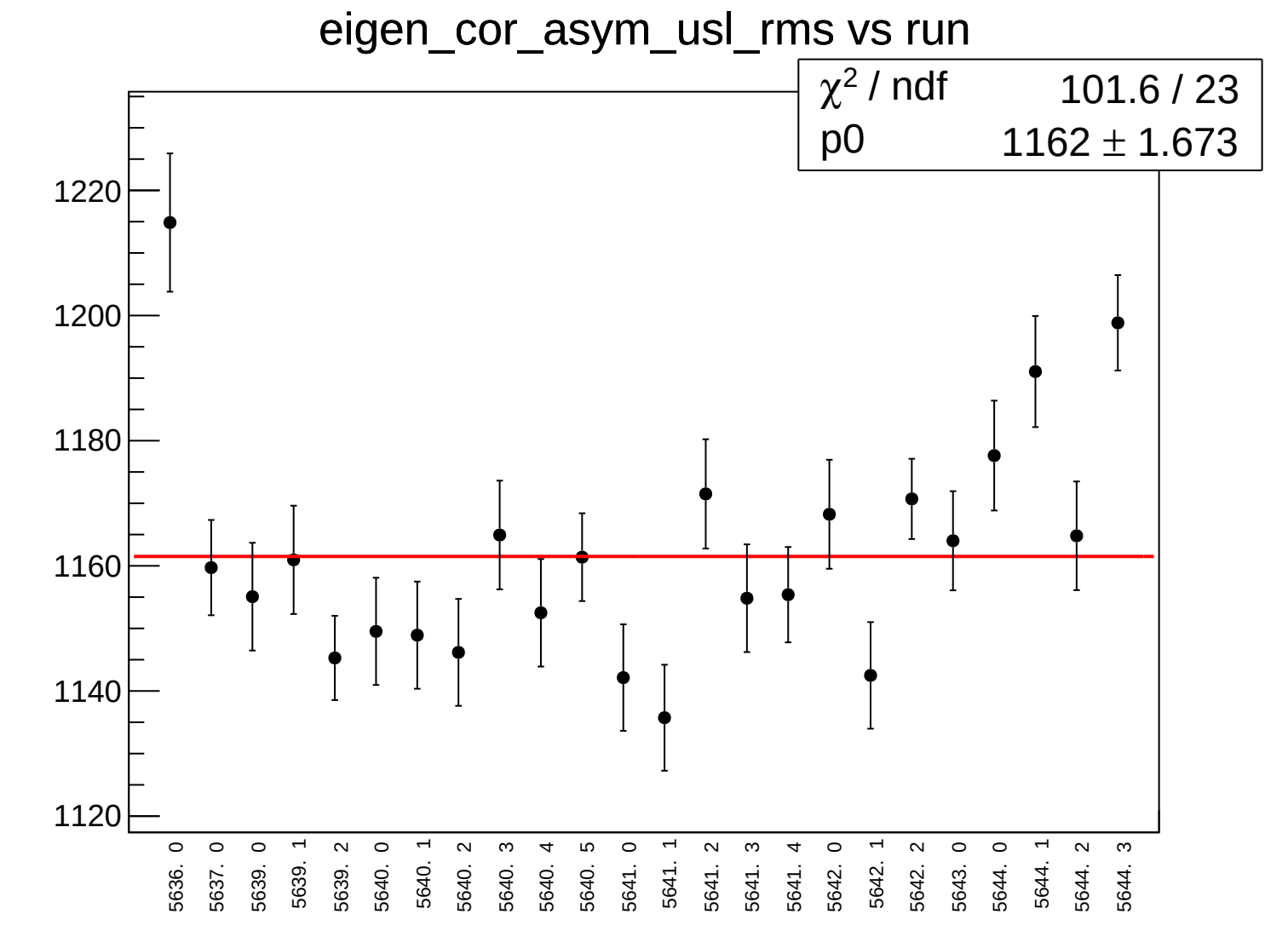

overload_cor_asym_usl_rms vs run
χ² / ndf 100.7 / 23
p0 1159 ± 1.67
1220
1200
1180
1160
1140
1120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

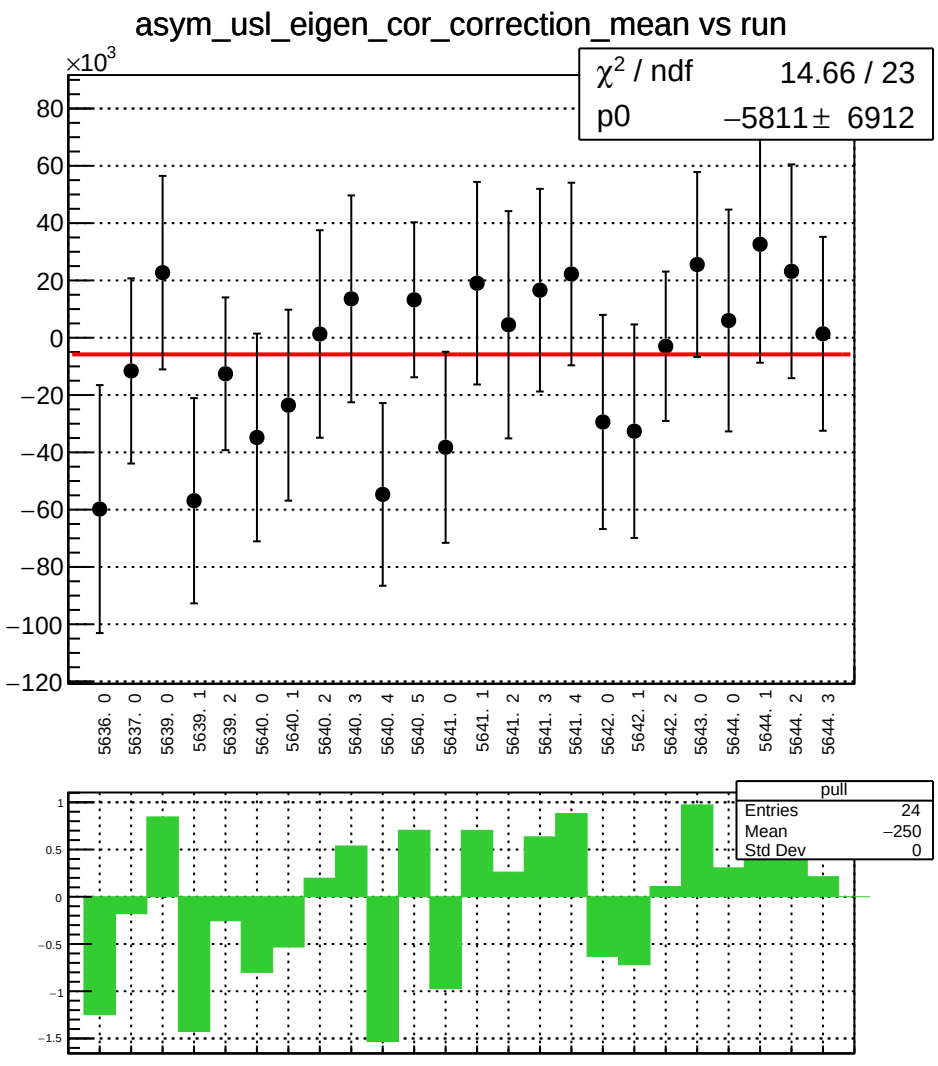

asym_usl_overload_cor_correction_mean vs run
×10^3
χ² / ndf 14.54 / 23
p0 −5734 ± 6914
80
60
40
20
0
−20
−40
−60
−80
−100
−120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −250
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.009566
Std Dev 0.7783
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

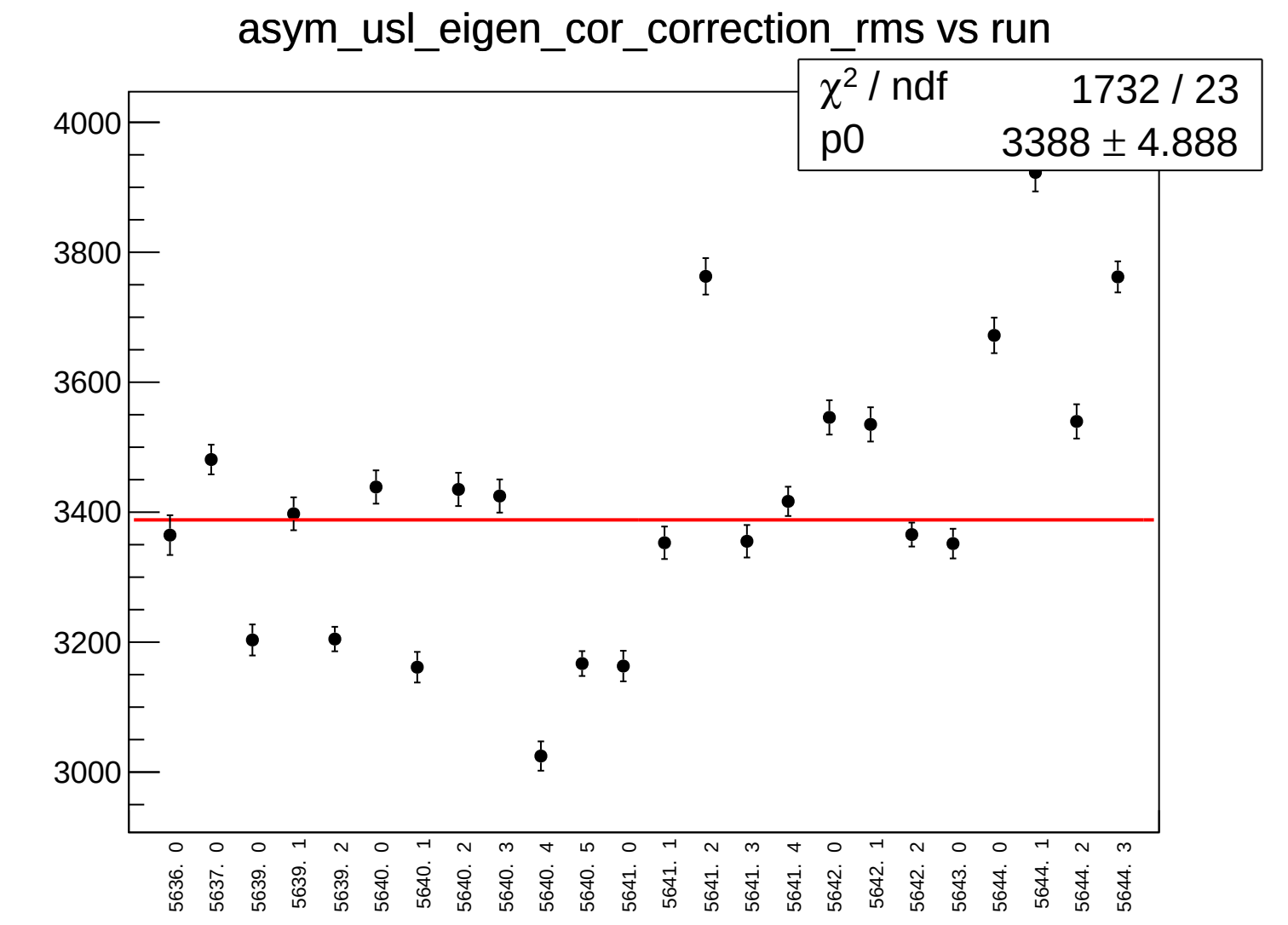

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 1730 / 23
p0 3389 ± 4.889
4000
3800
3600
3400
3200
3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_cor_asym_usl_mean vs run
χ² / ndf 21.74 / 23
p0 −1358 ± 2366
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −120.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean −0.009666
Std Dev 0.9517
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_usl_rms vs run
χ² / ndf 101.6 / 23
p0 1162 ± 1.673
1220
1200
1180
1160
1140
1120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_usl_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 14.66 / 23
p0 −5811 ± 6912
80
60
40
20
0
−20
−40
−60
−80
−100
−120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −250
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.009459
Std Dev 0.7815
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 1732 / 23
p0 3388 ± 4.888
4000
3800
3600
3400
3200
3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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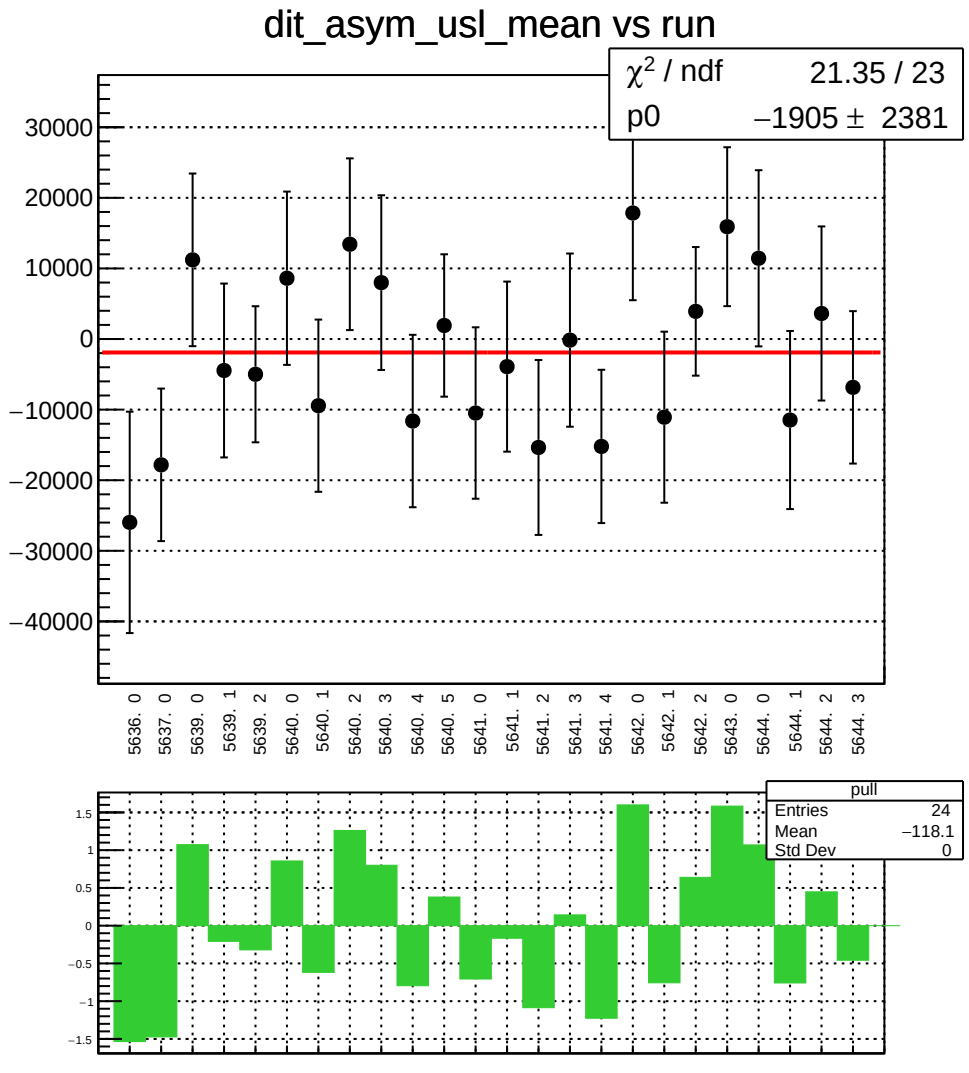
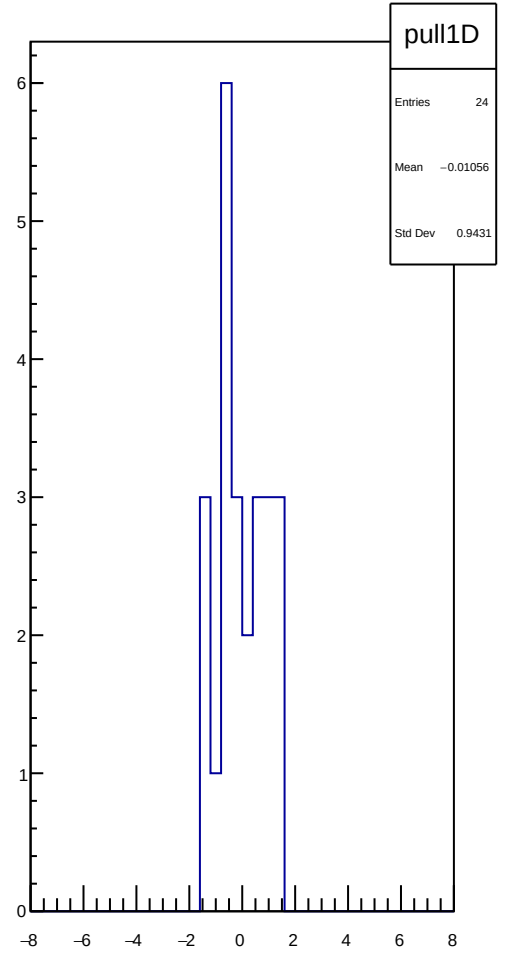
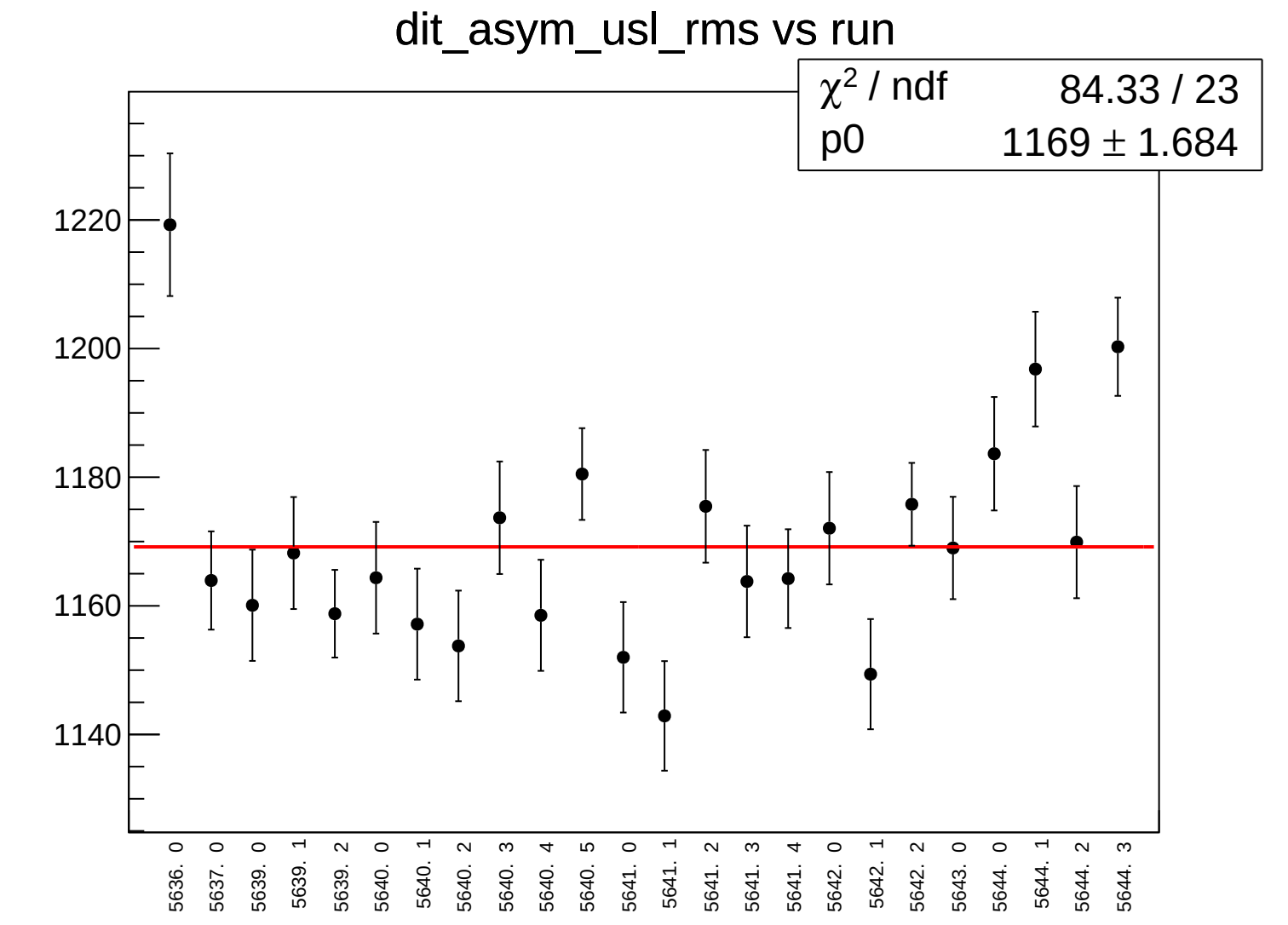
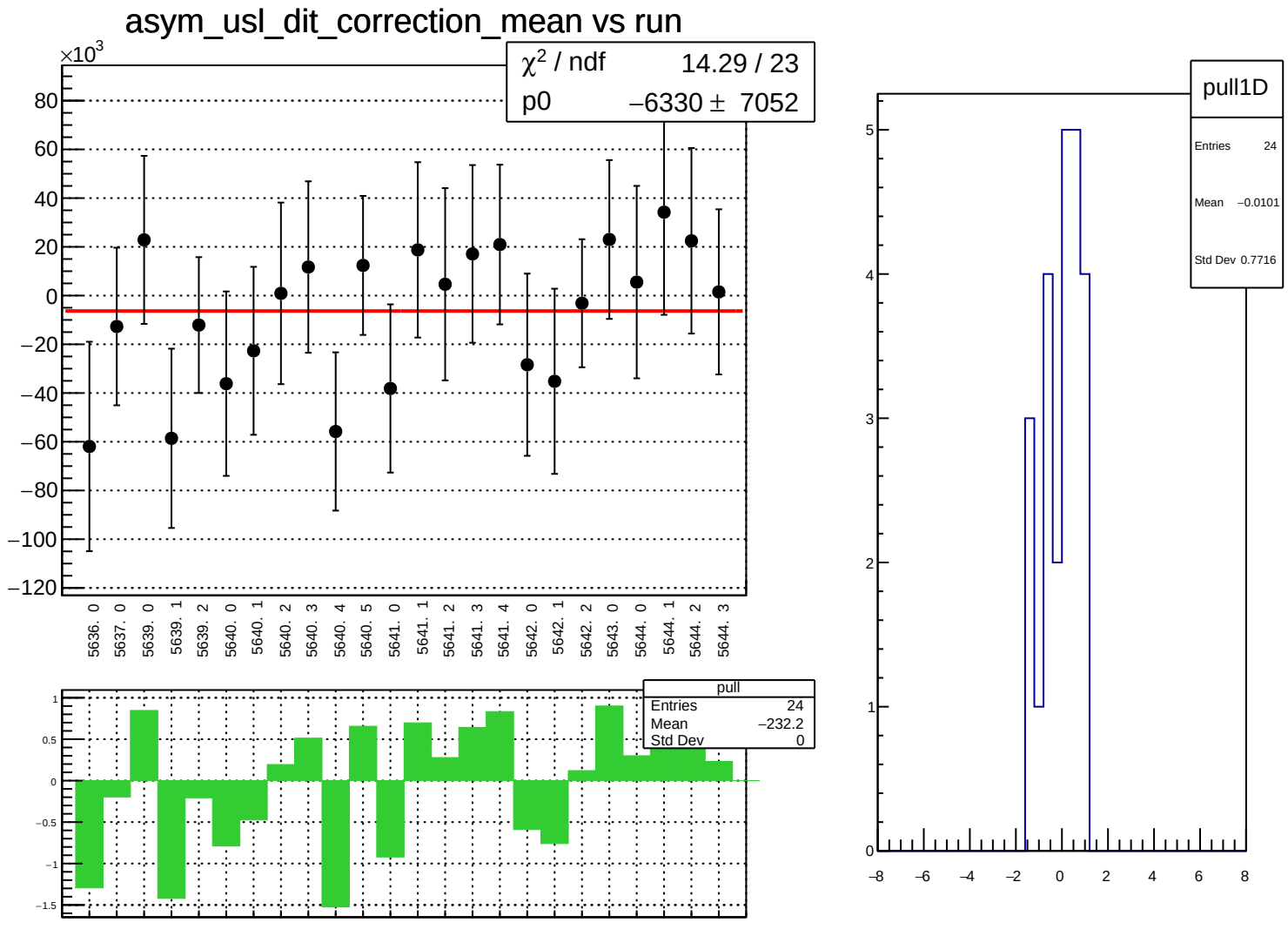
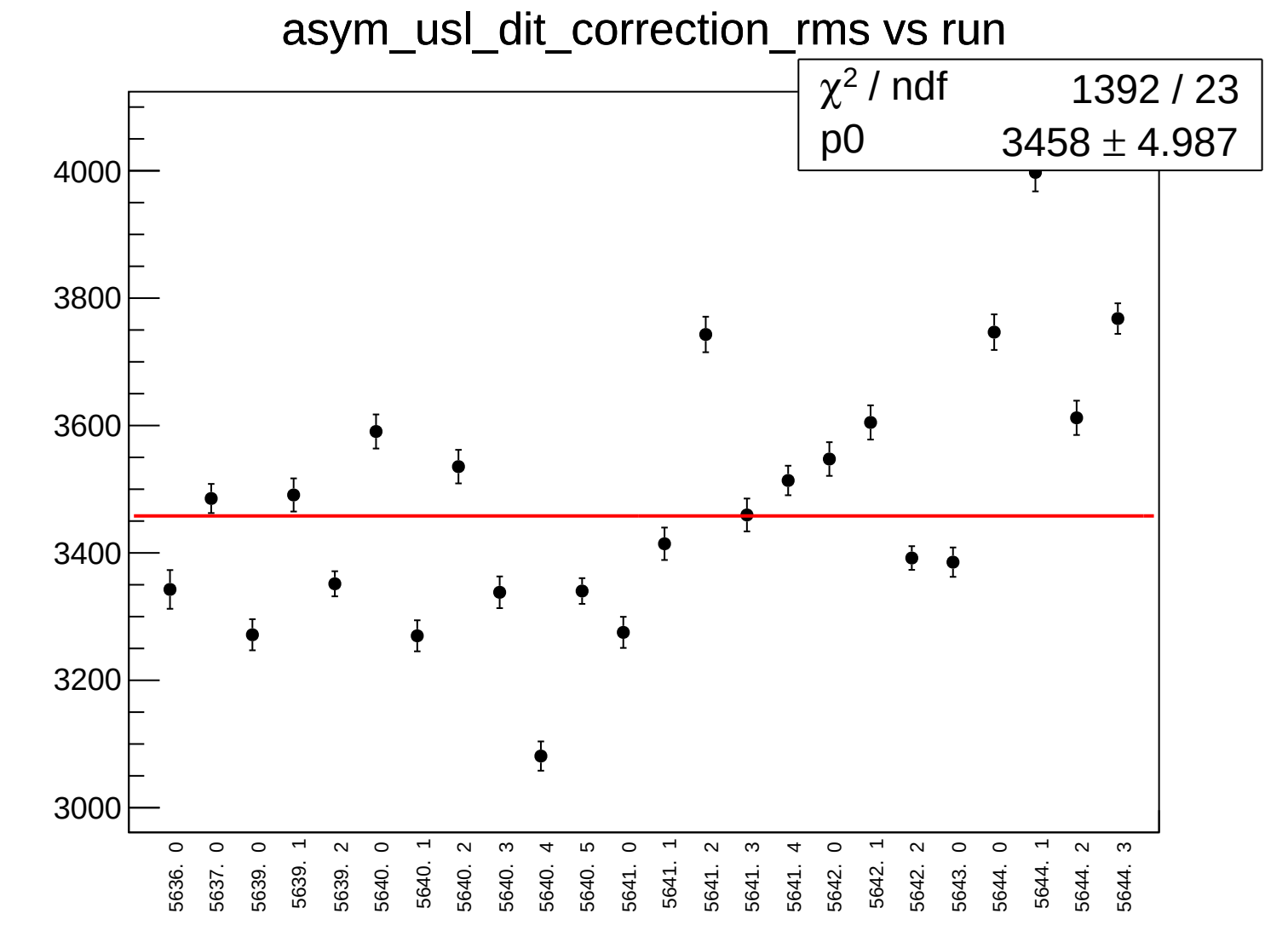
5644. 2
5644. 3

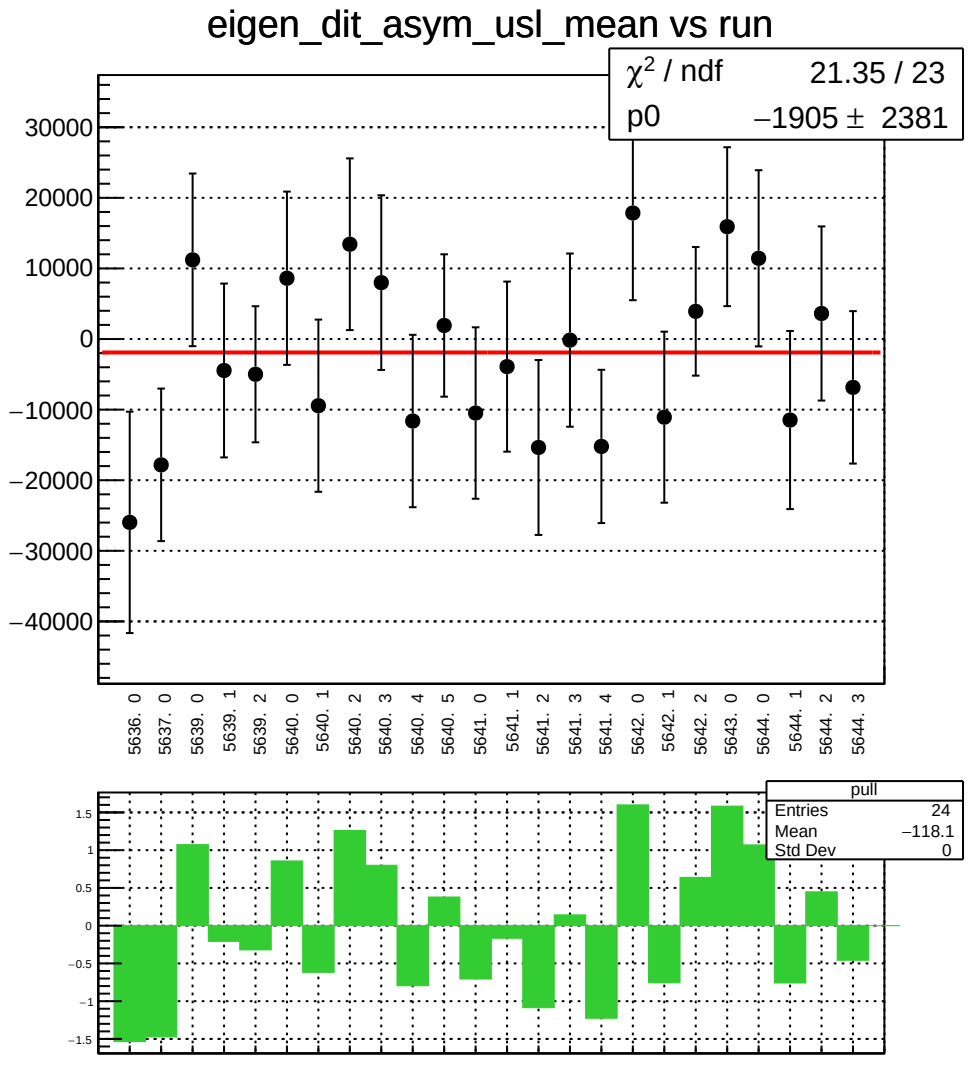

dit_asym_usl_mean vs run
χ² / ndf 21.35 / 23
p0 −1905 ± 2381
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −118.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

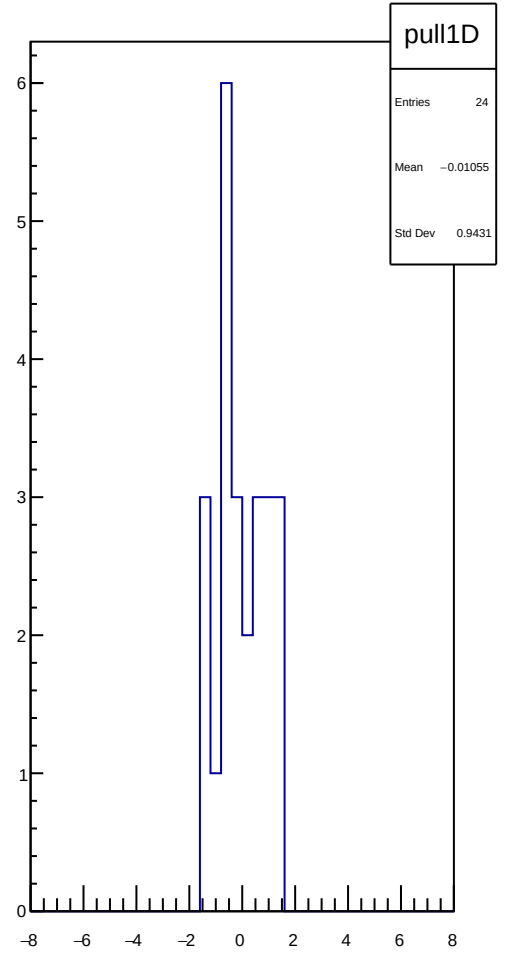

pull1D
Entries 24
Mean −0.01056
Std Dev 0.9431
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

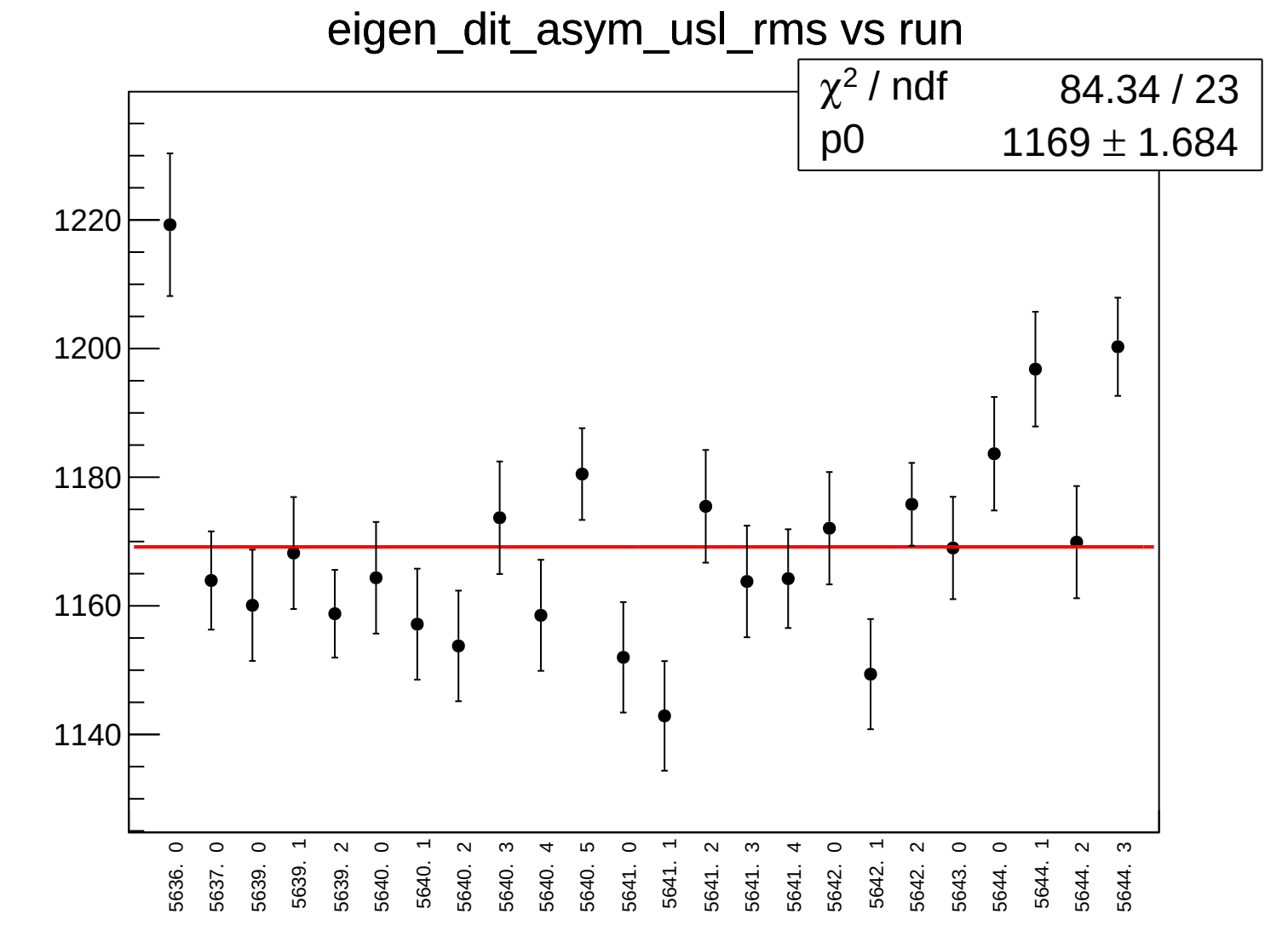

dit_asym_usl_rms vs run
χ² / ndf 84.33 / 23
p0 1169 ± 1.684
1220
1200
1180
1160
1140
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

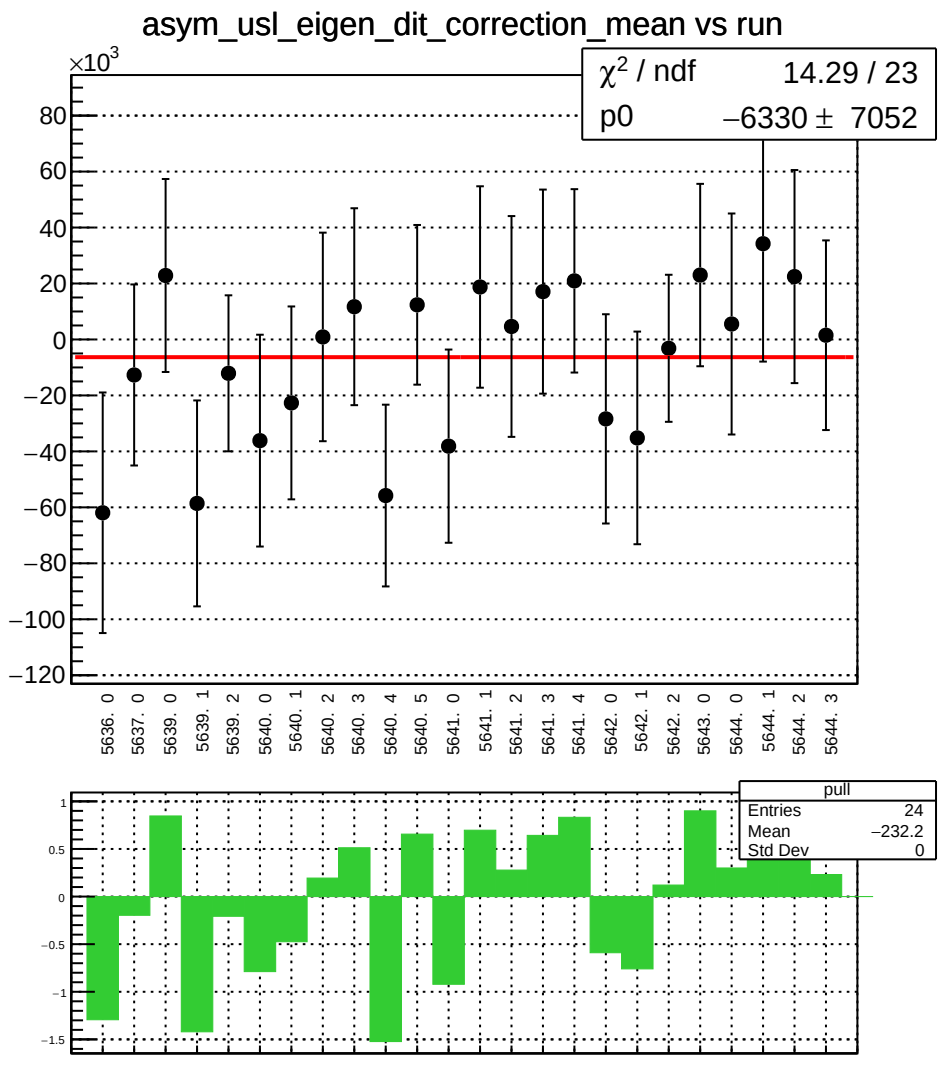

asym_usl_dit_correction_mean vs run
×10^3
χ^2 / ndf 14.29 / 23
p0 −6330 ± 7052
80
60
40
20
0
−20
−40
−60
−80
−100
−120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −232.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.0101
Std Dev 0.7716
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

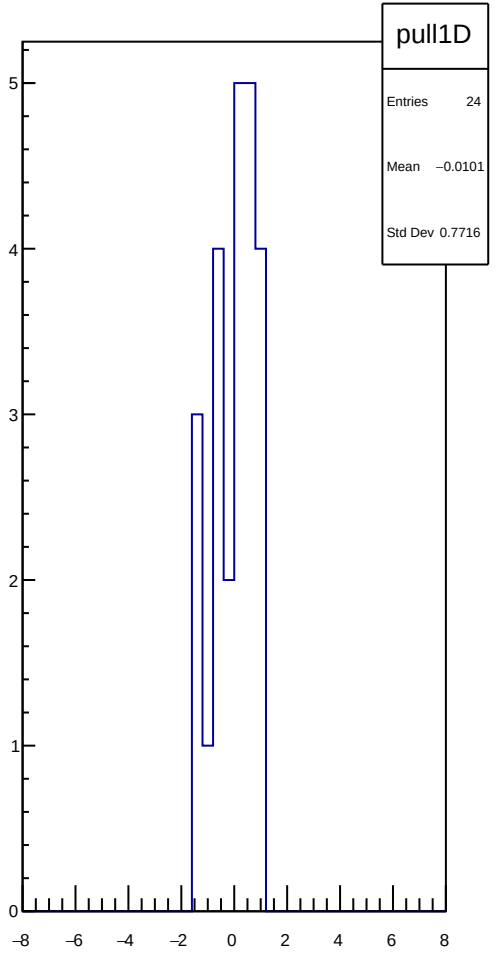

asym_usl_dit_correction_rms vs run
χ² / ndf 1392 / 23
p0 3458 ± 4.987
4000
3800
3600
3400
3200
3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

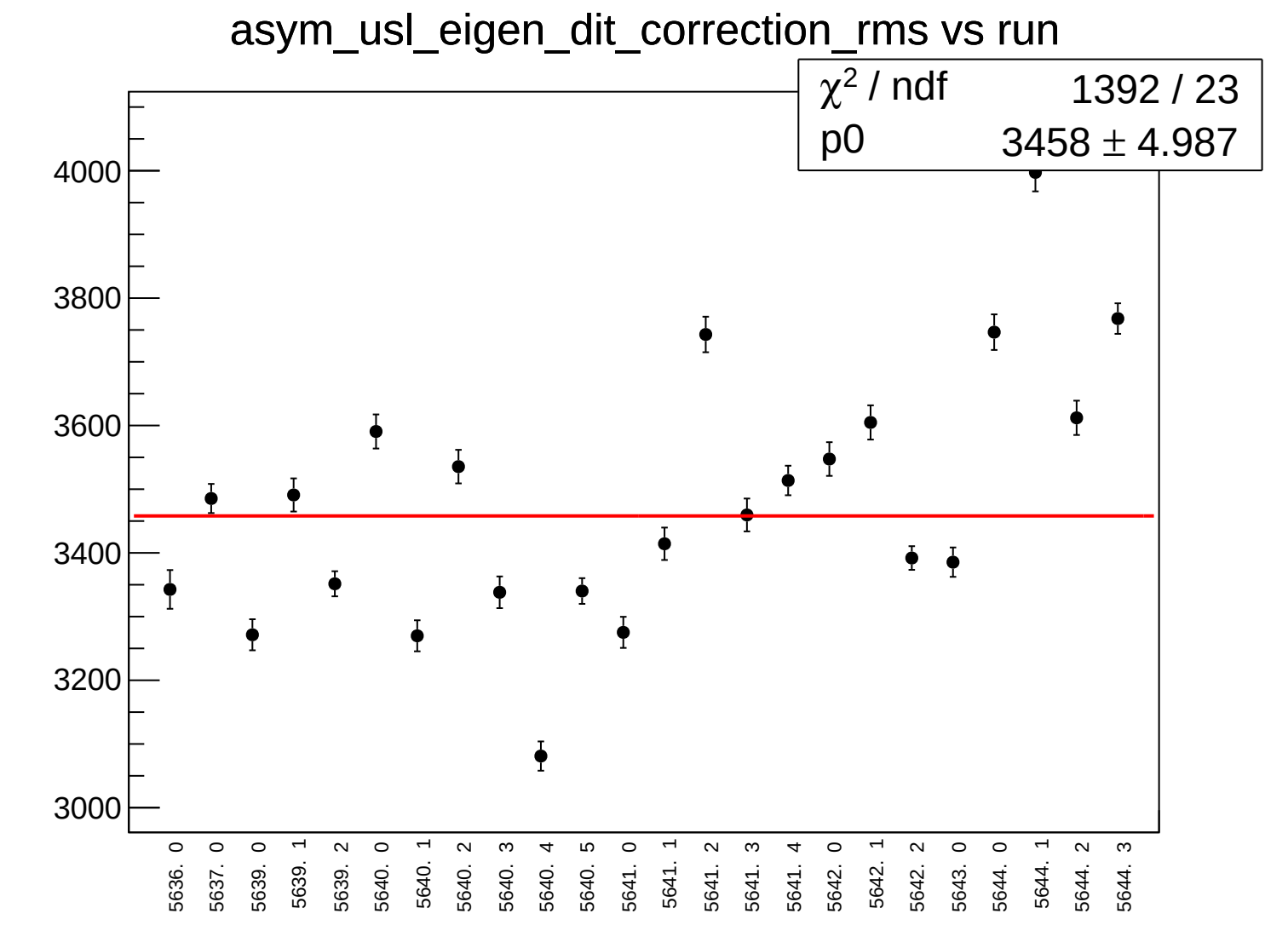

eigen_dit_asym_usl_mean vs run
χ² / ndf 21.35 / 23
p0 −1905 ± 2381
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −118.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

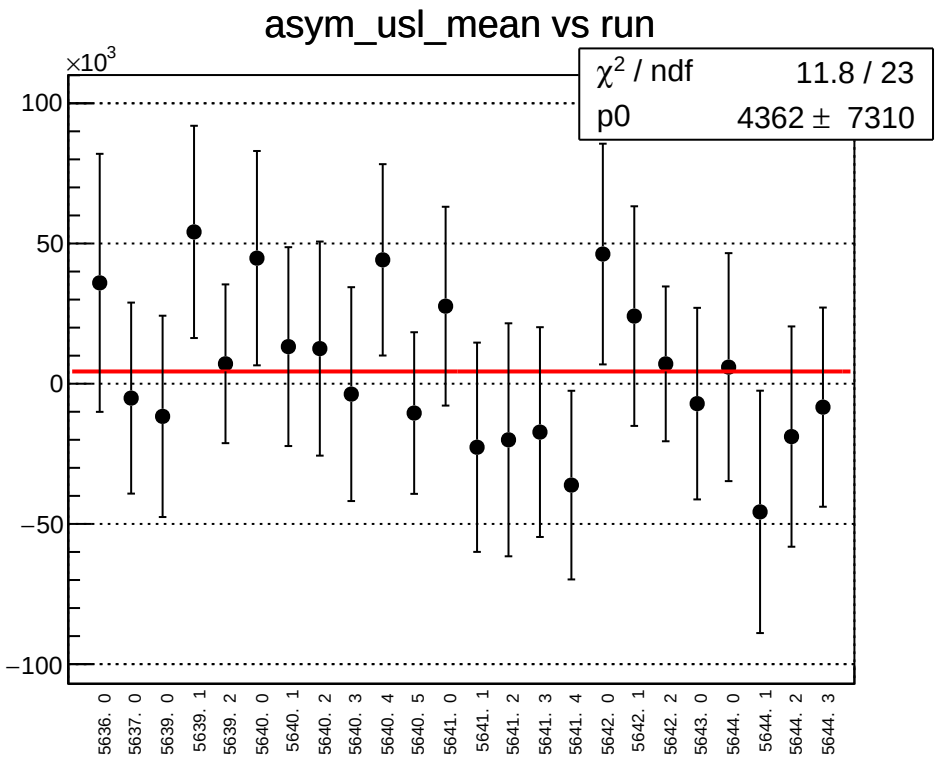

pull1D
Entries 24
Mean −0.01055
Std Dev 0.9431
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

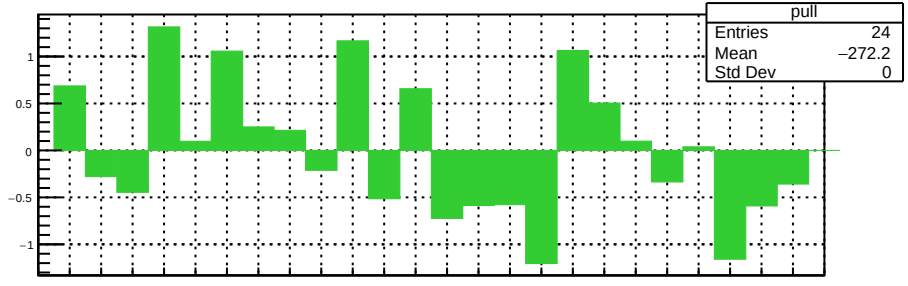

eigen_dit_asym_usl_rms vs run
χ² / ndf 84.34 / 23
p0 1169 ± 1.684
1220
1200
1180
1160
1140
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

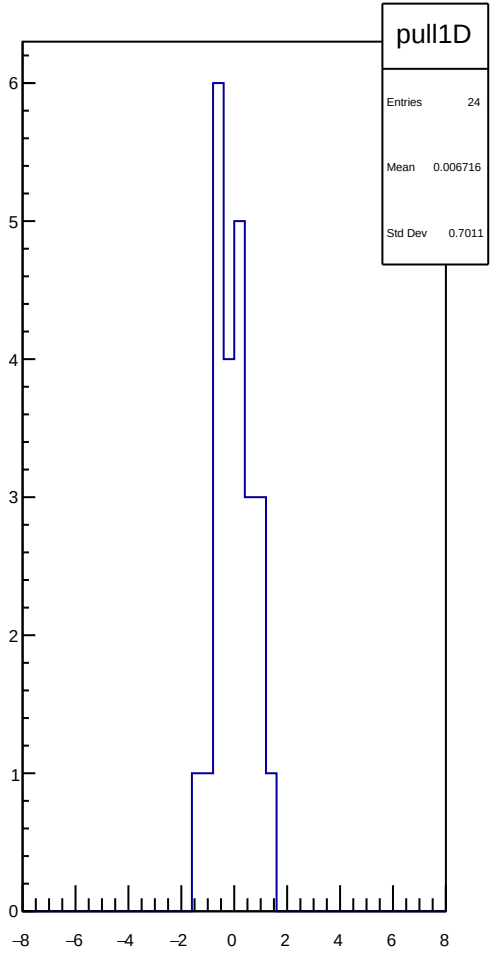

asym_usl_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 14.29 / 23
p0 −6330 ± 7052
80
60
40
20
0
−20
−40
−60
−80
−100
−120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −232.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

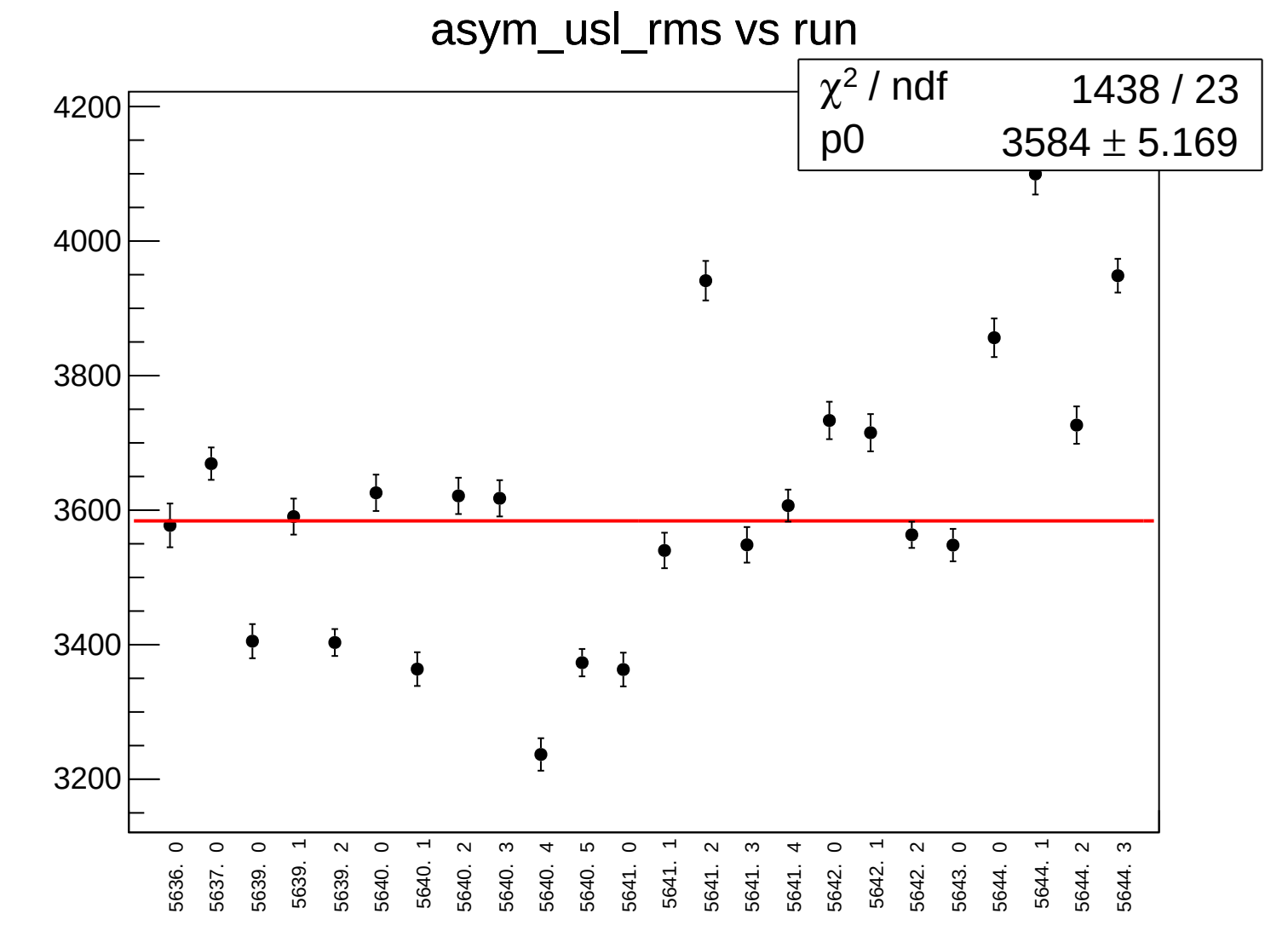

pull1D
Entries 24
Mean −0.0101
Std Dev 0.7716
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

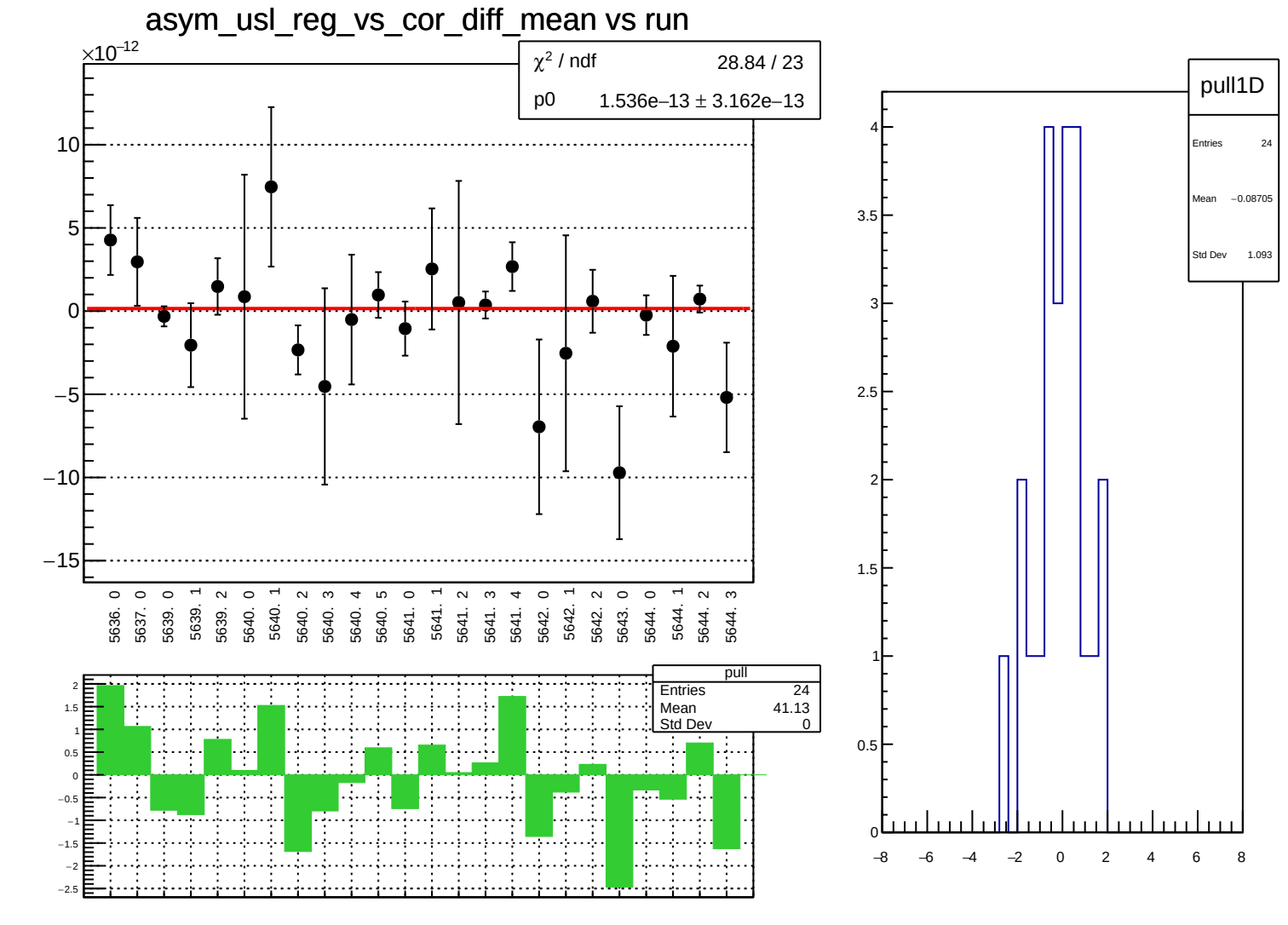

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 1392 / 23
p0 3458 ± 4.987
4000
3800
3600
3400
3200
3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

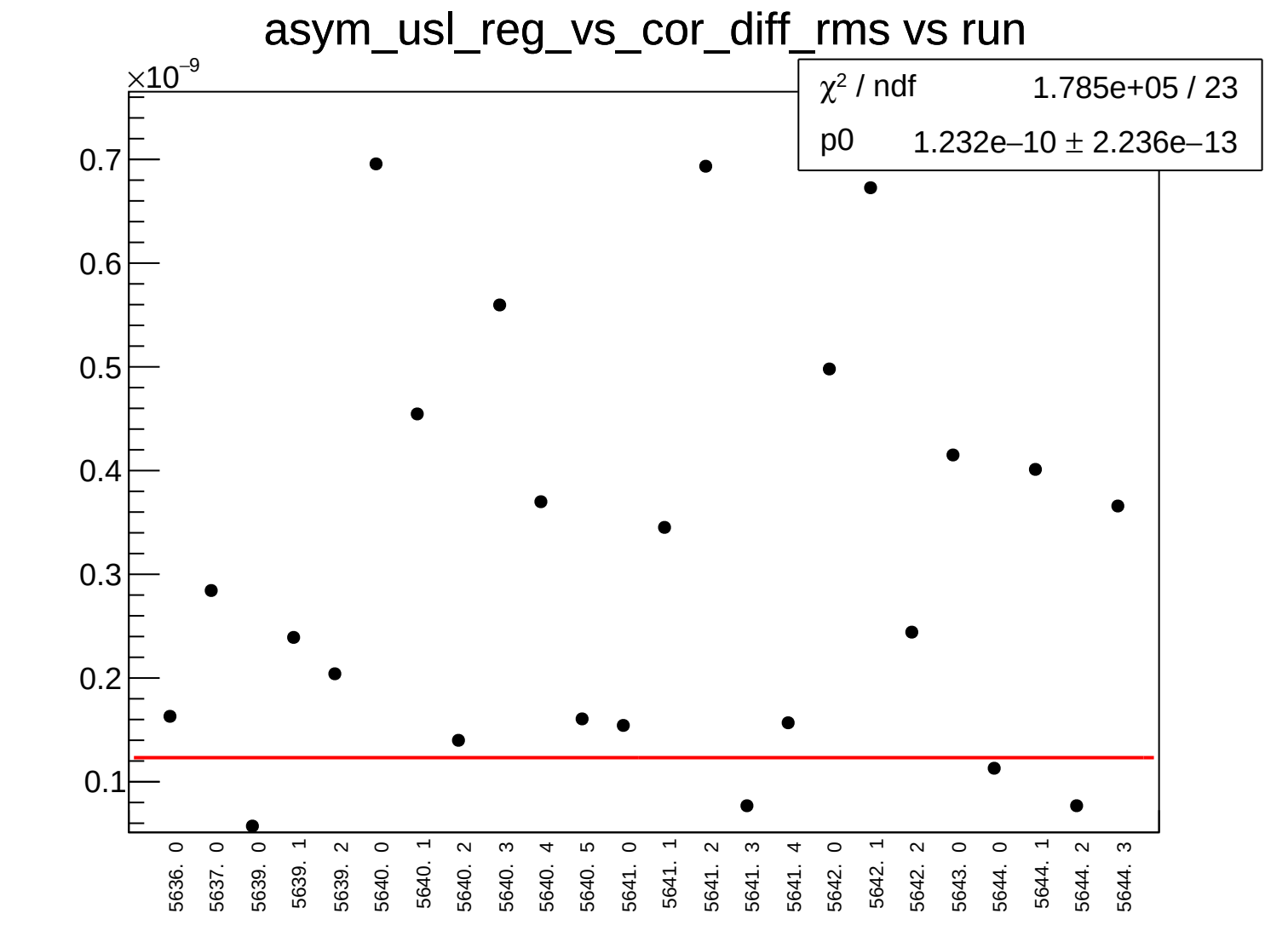

asym_usl_mean vs run
×10^3
χ² / ndf 11.8 / 23
p0 4362 ± 7310
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


pull
Entries 24
Mean −272.2
Std Dev 0
1
0.5
0
−0.5
−1


pull1D
Entries 24
Mean 0.006716
Std Dev 0.7011
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_rms vs run
χ² / ndf 1438 / 23
p0 3584 ± 5.169
4200
4000
3800
3600
3400
3200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 28.84 / 23
p0 1.536e−13 ± 3.162e−13
10
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 41.13
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean −0.08705
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


asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.785e+05 / 23
p0 1.232e−10 ± 2.236e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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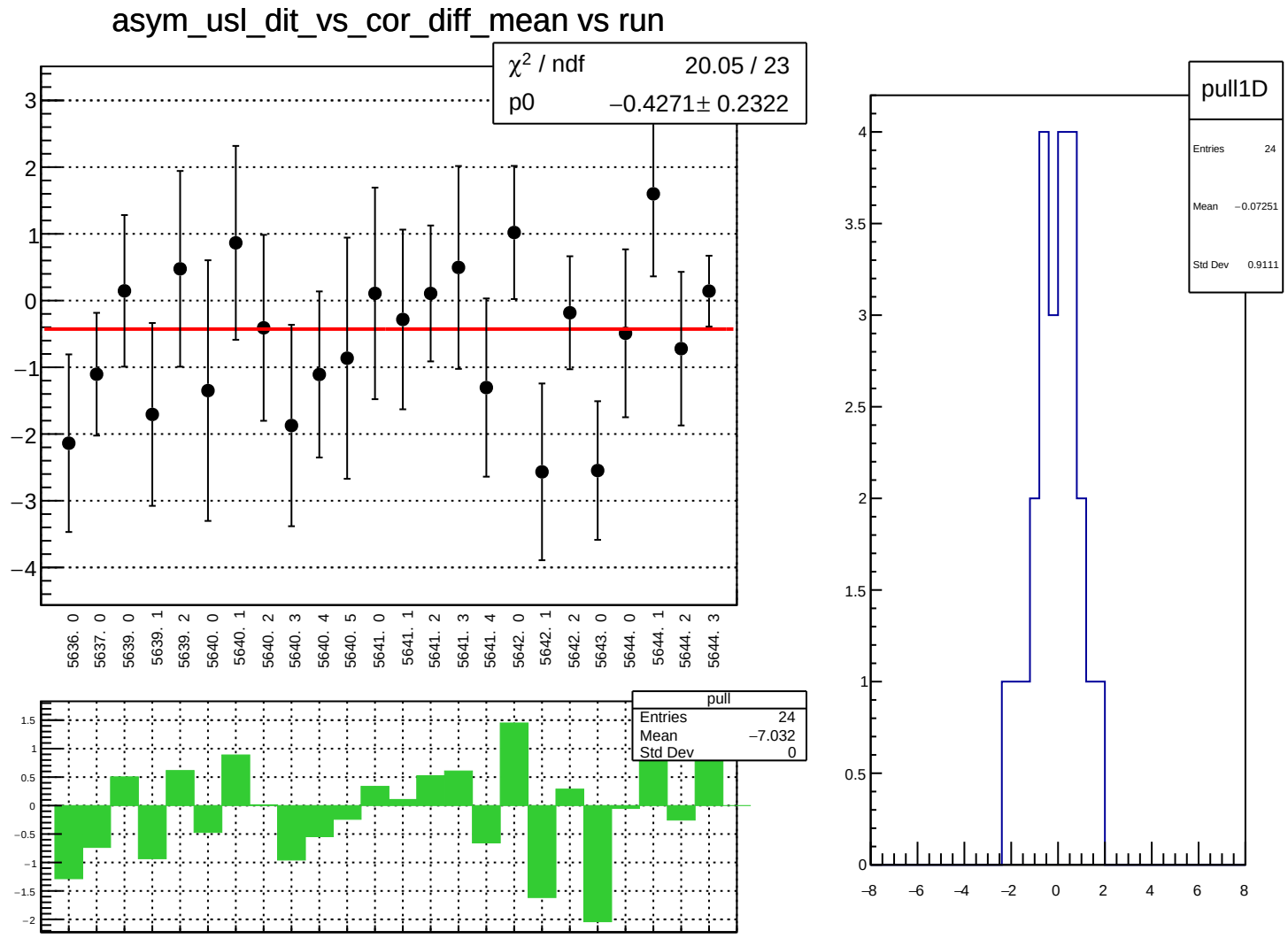
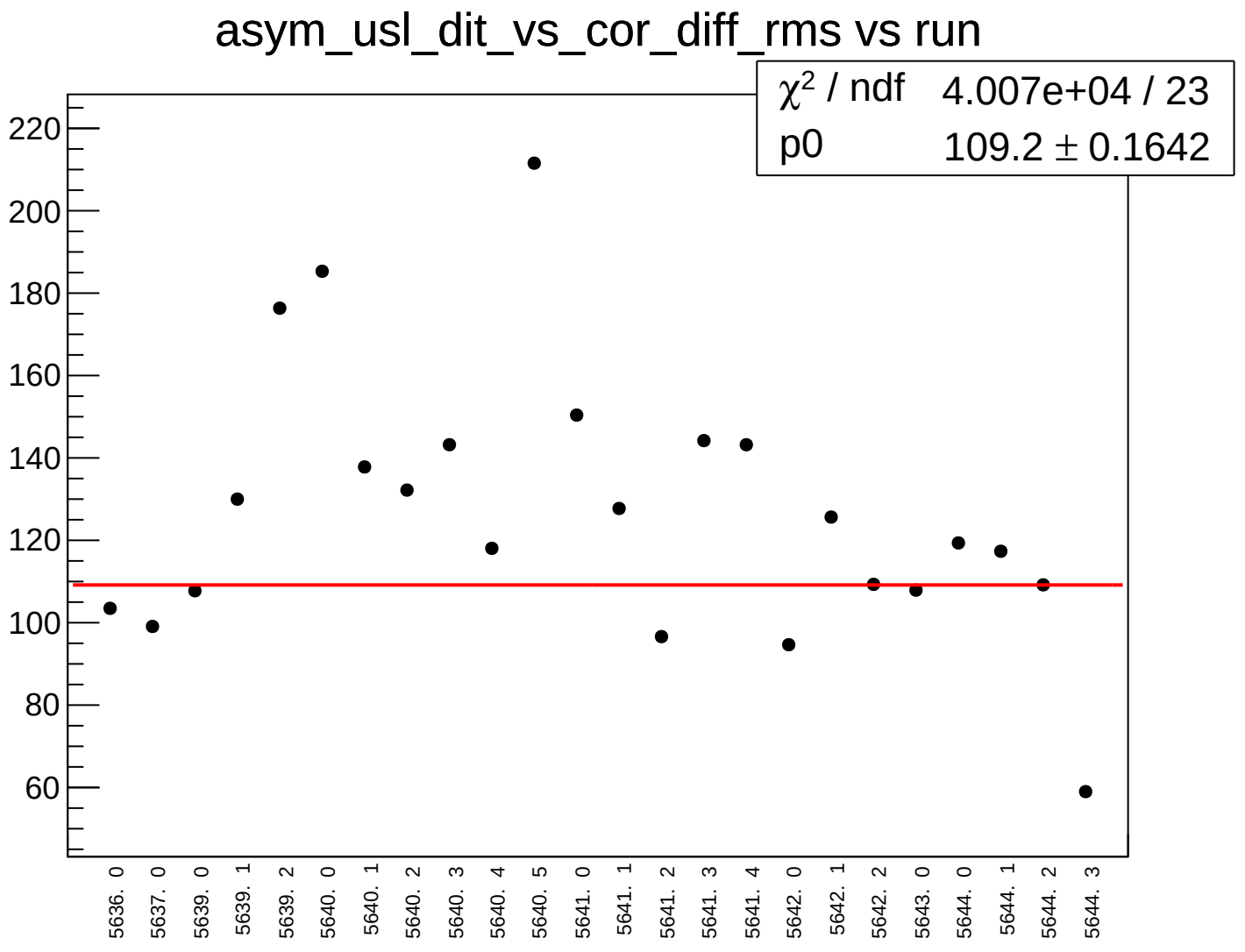
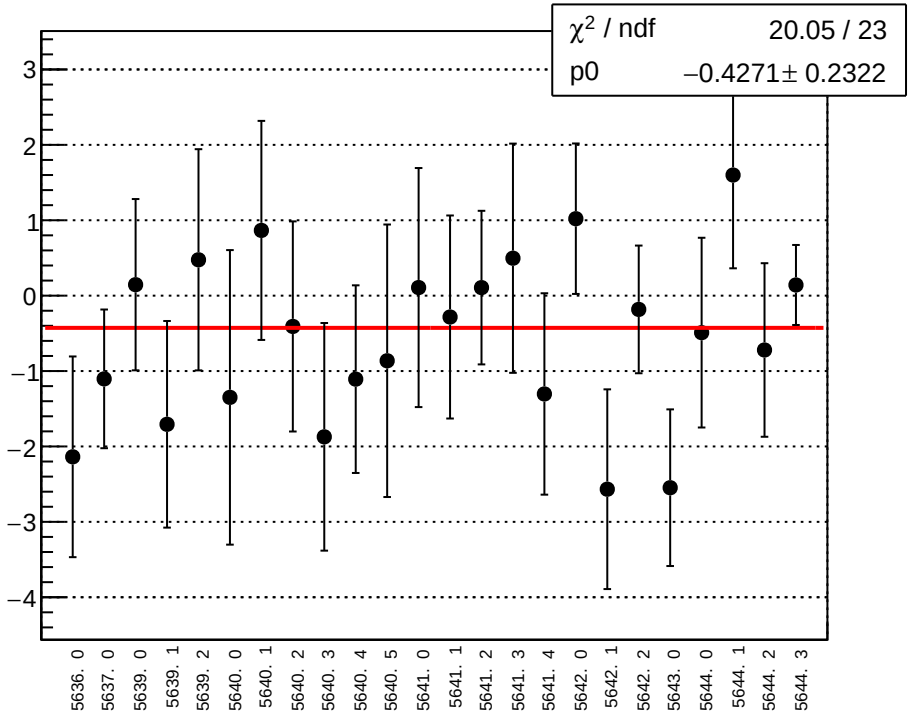
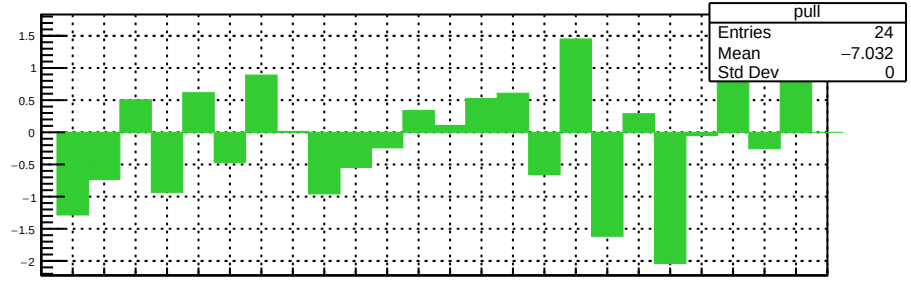
5644. 2
5644. 3

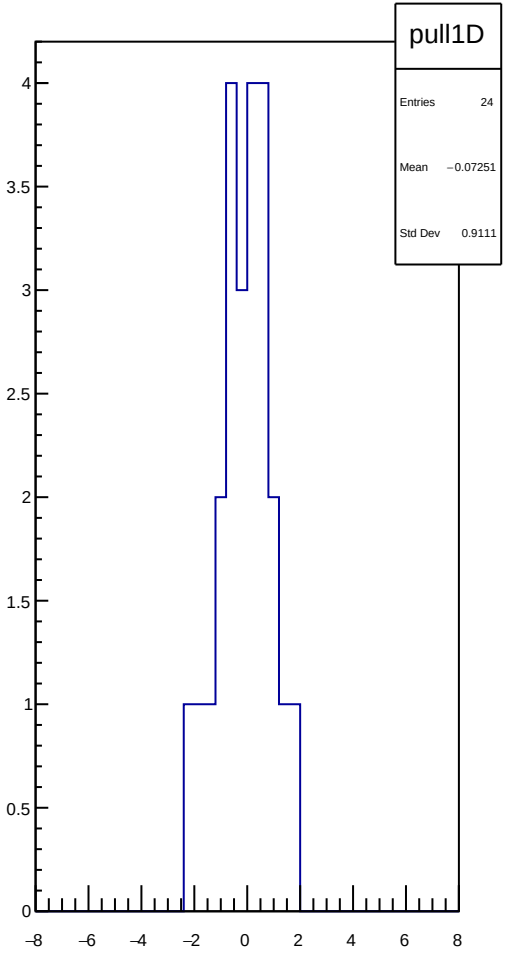

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 20.05 / 23
p0 −0.4271± 0.2322
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −7.032
Std Dev 0
pull1D
Entries 24
Mean −0.07251
Std Dev 0.9111

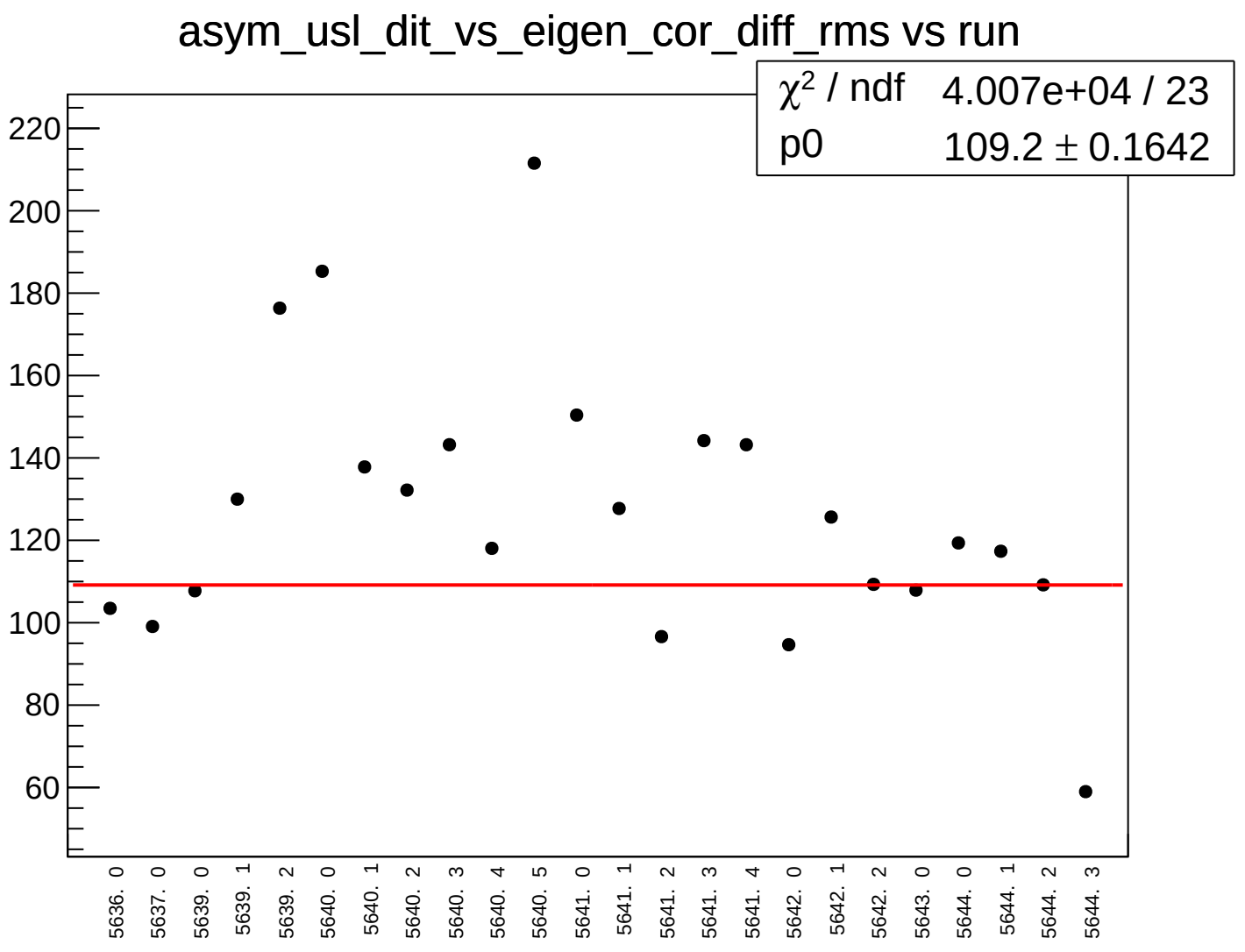

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 4.007e+04 / 23
p0 109.2 ± 0.1642
220
200
180
160
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

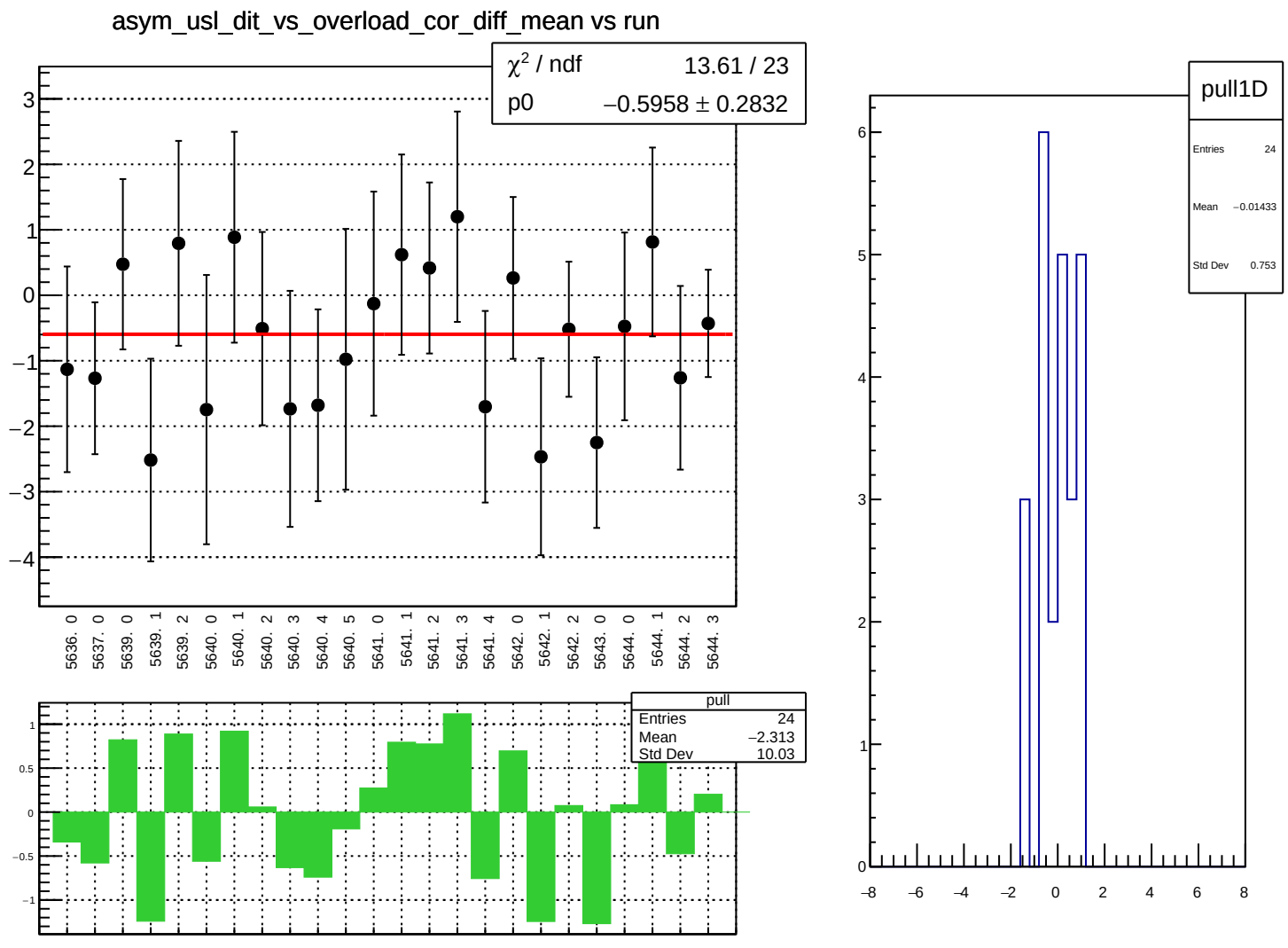
asym_usl_dit_vs_eigen_cor_diff_mean vs run

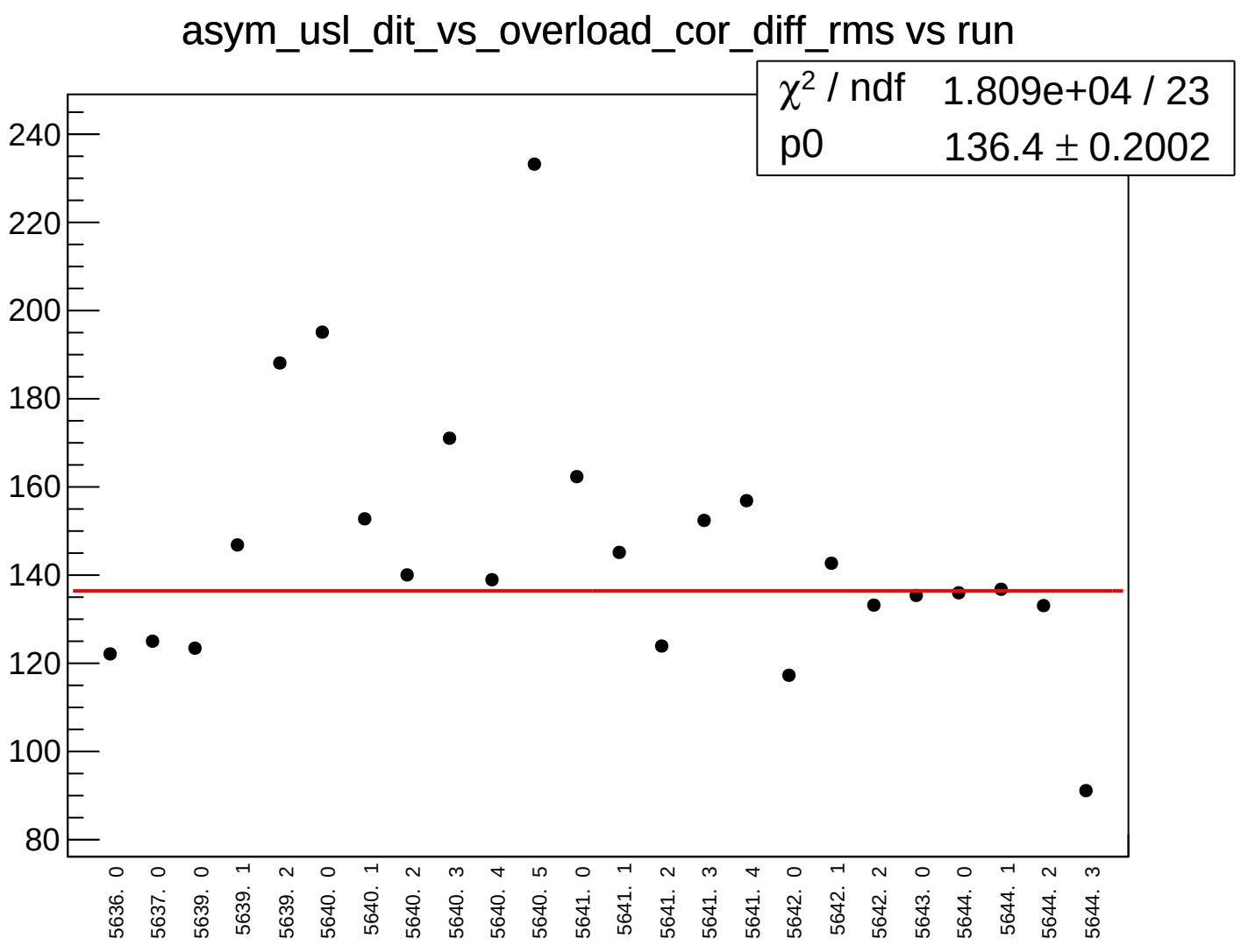


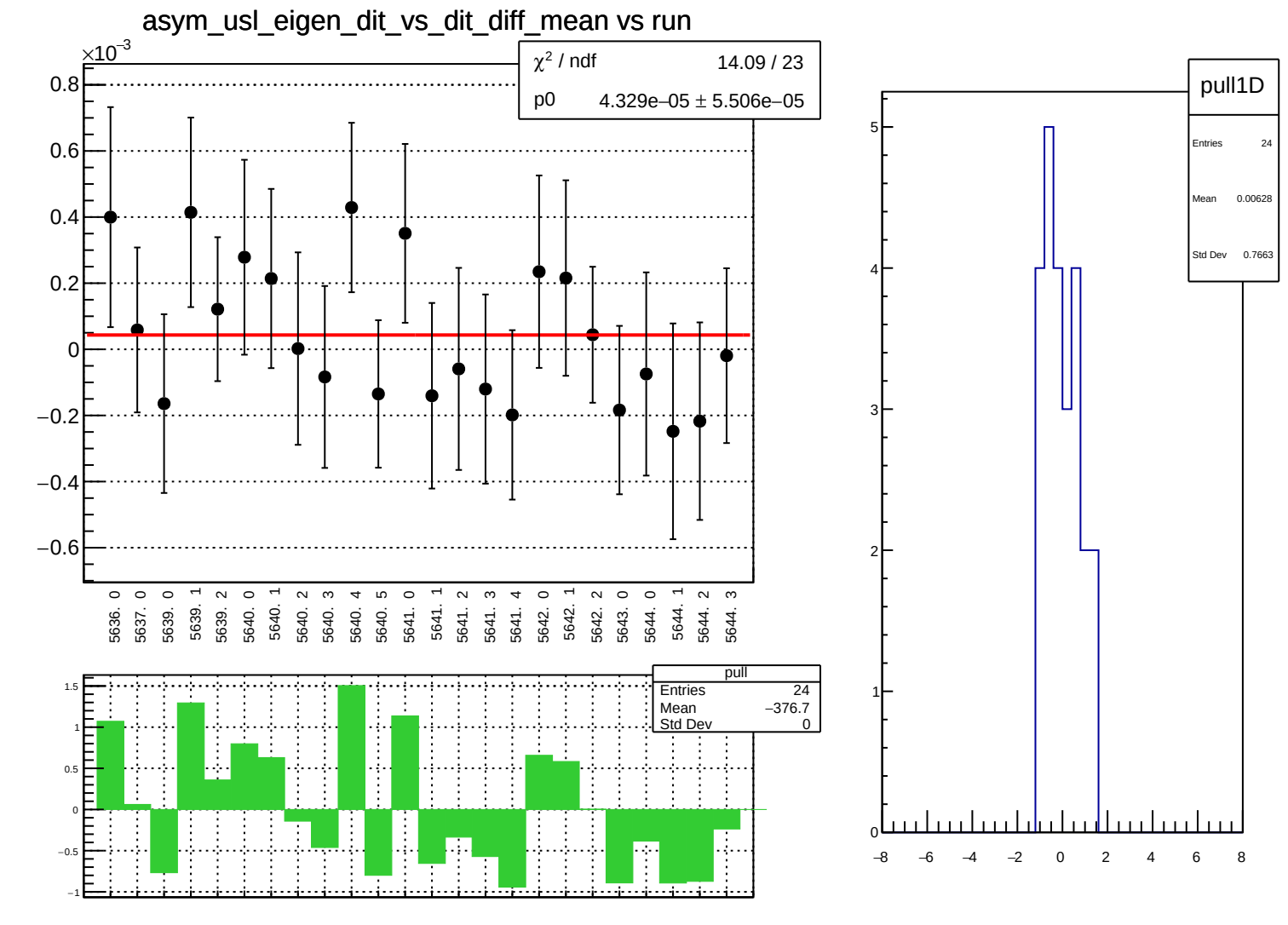


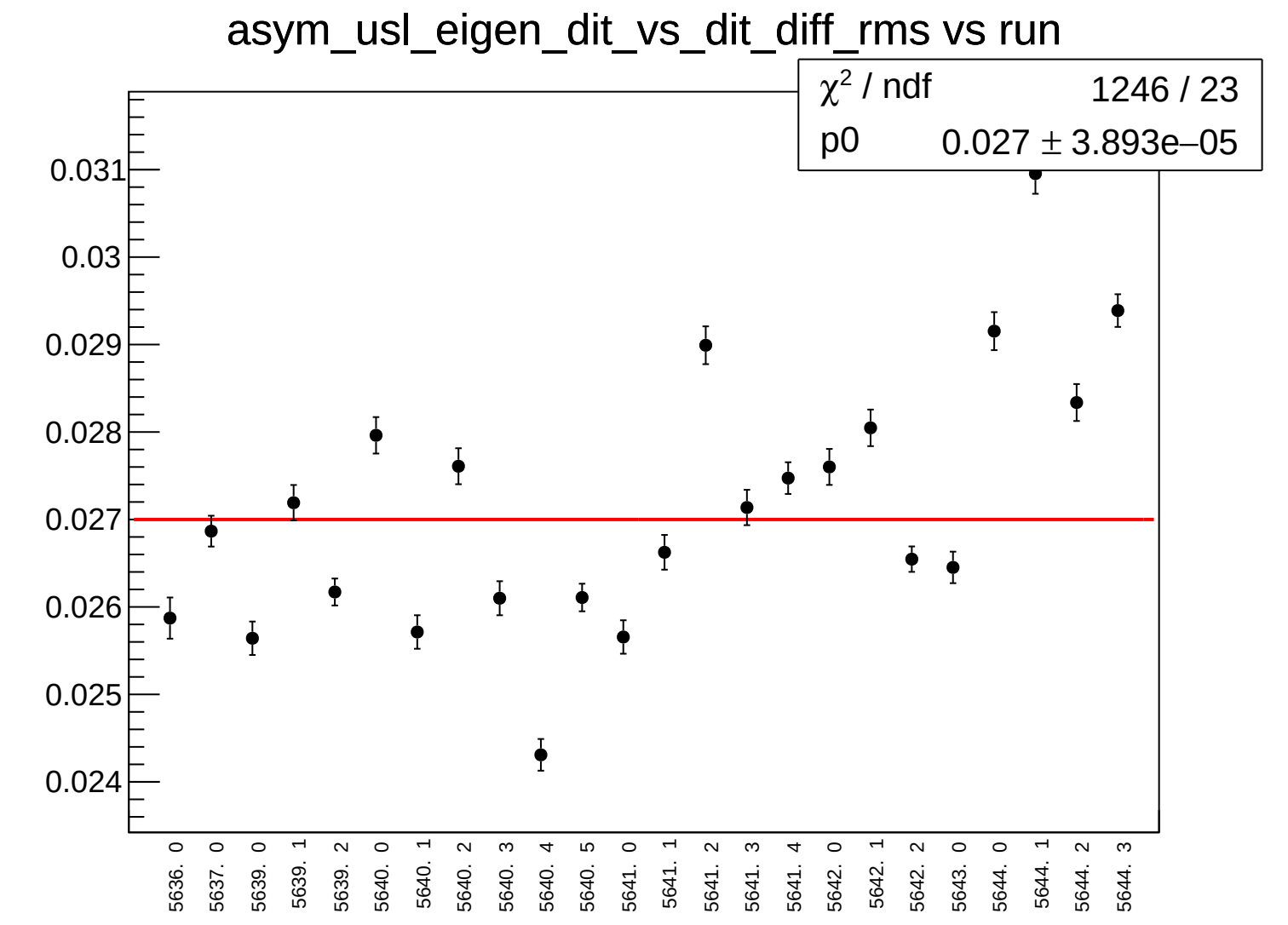


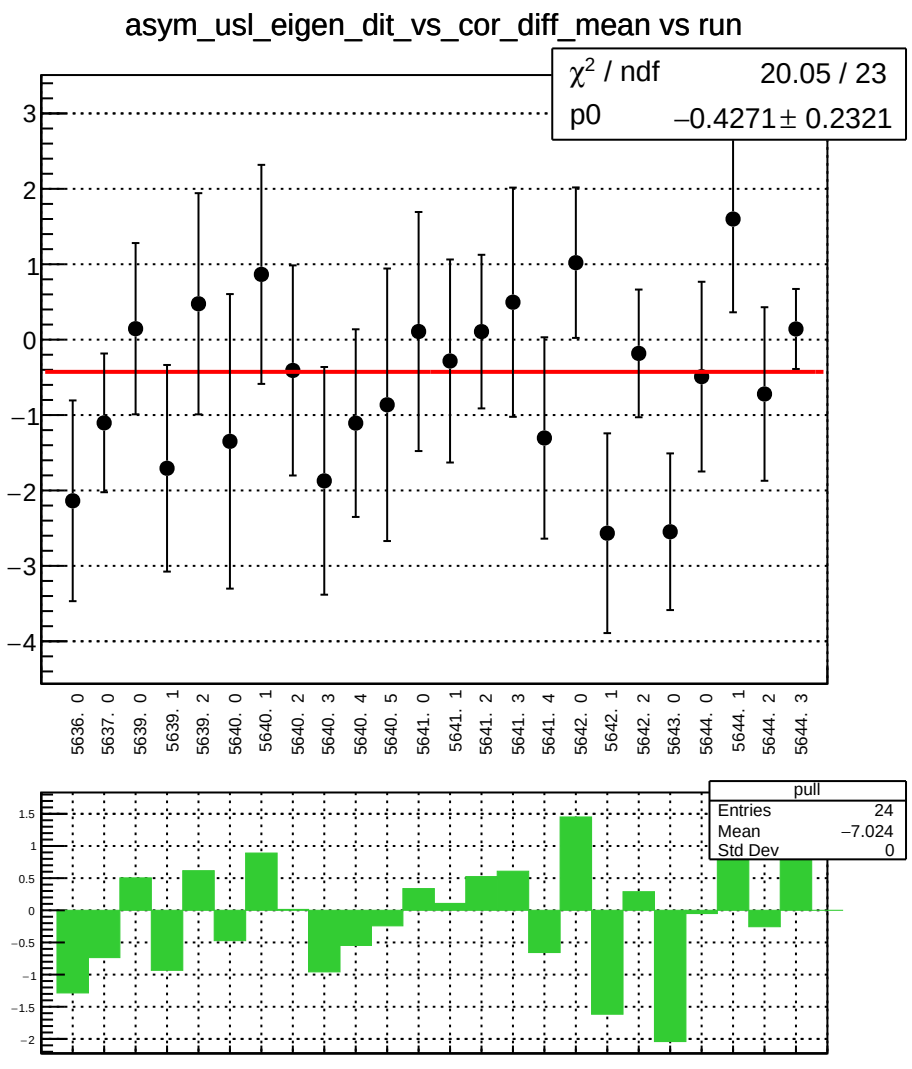

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.007e+04 / 23
p0 109.2 ± 0.1642
220
200
180
160
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

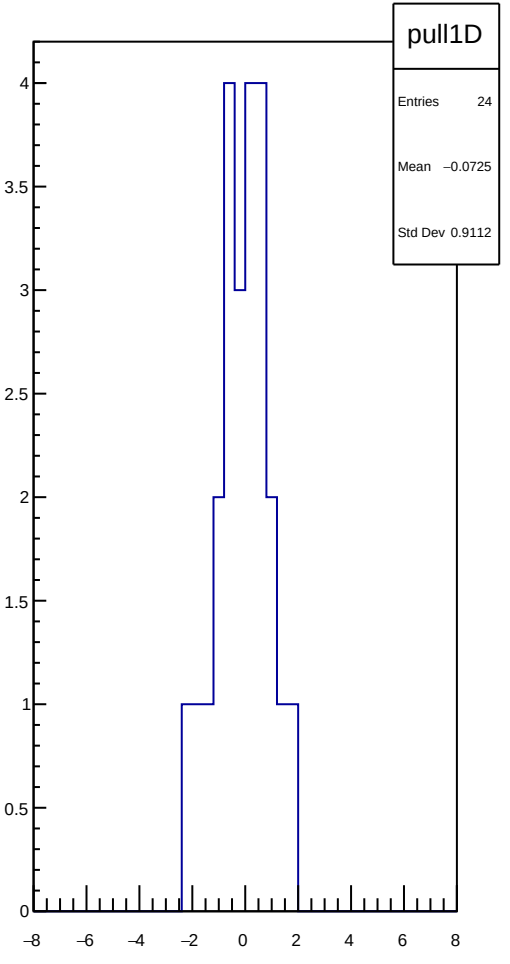

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 13.61 / 23
p0 −0.5958 ± 0.2832
3
2
1
0
−1
−2
−3
−4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −2.313
Std Dev 10.03
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.01433
Std Dev 0.753
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

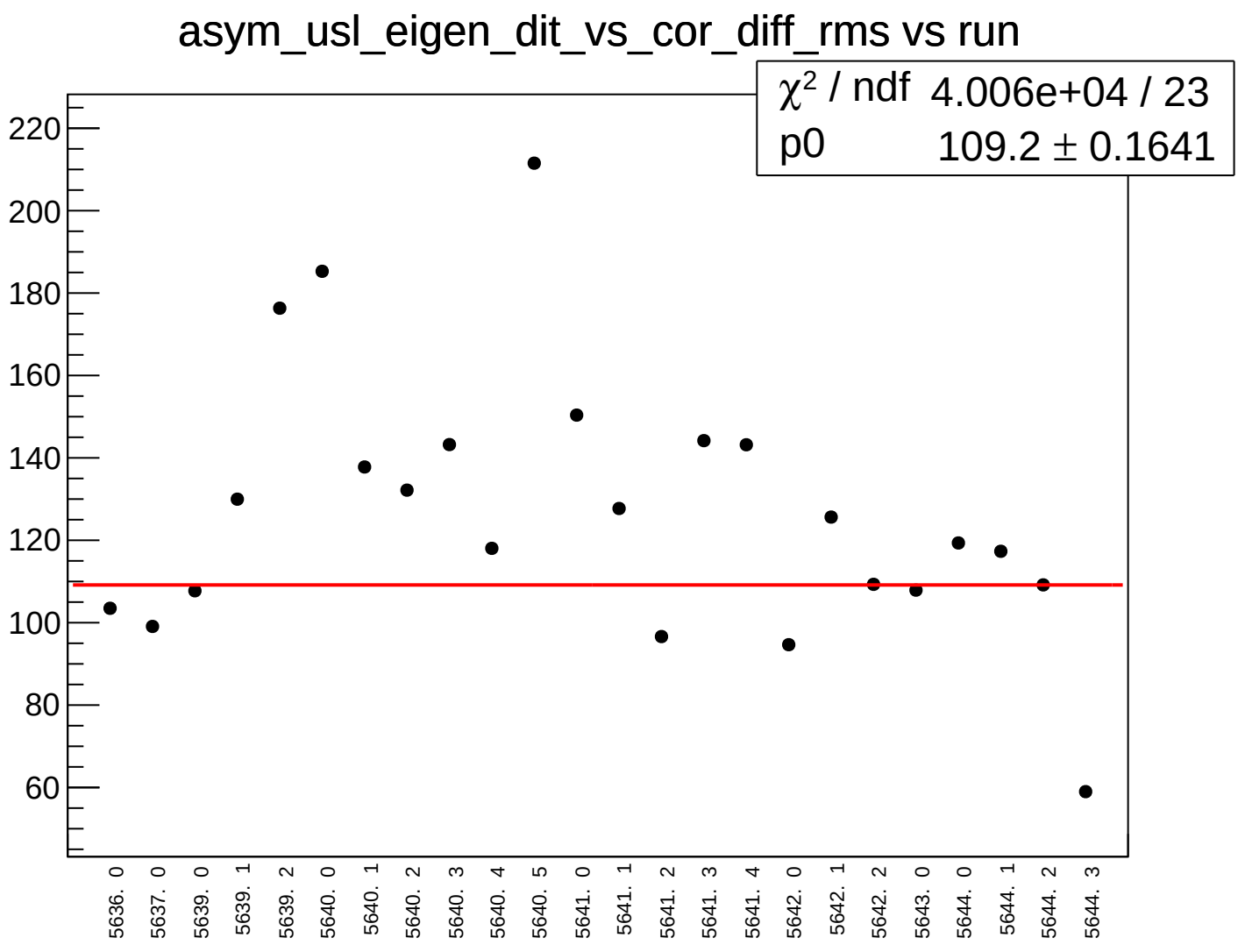

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.809e+04 / 23
p0 136.4 ± 0.2002
240
220
200
180
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 14.09 / 23
p0 4.329e−05 ± 5.506e−05
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −376.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.00628
Std Dev 0.7663
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

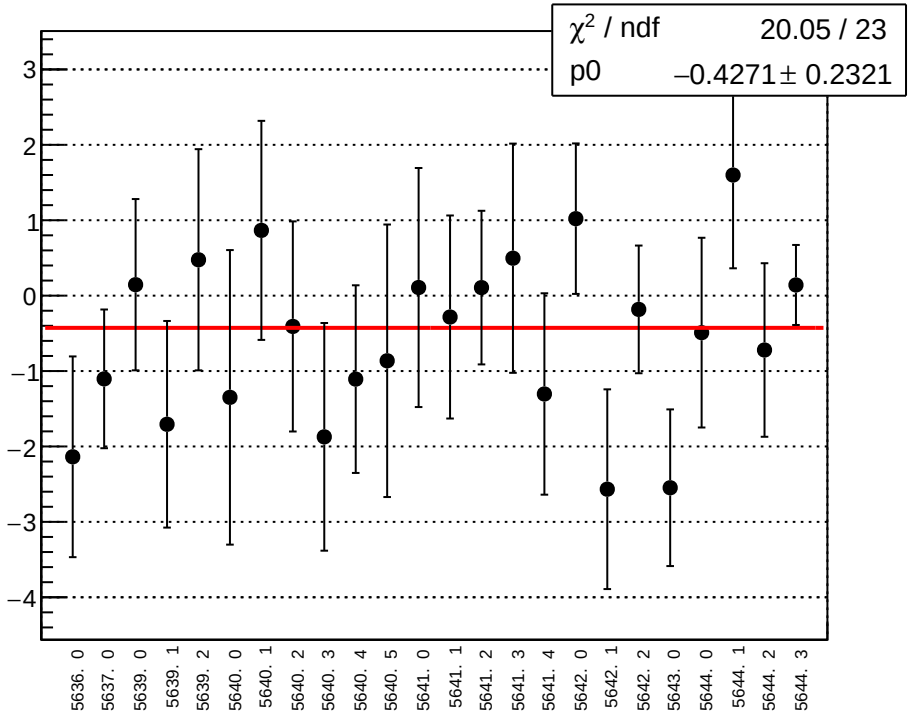

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1246 / 23
p0 0.027 ± 3.893e−05
0.031
0.03
0.029
0.028
0.027
0.026
0.025
0.024
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

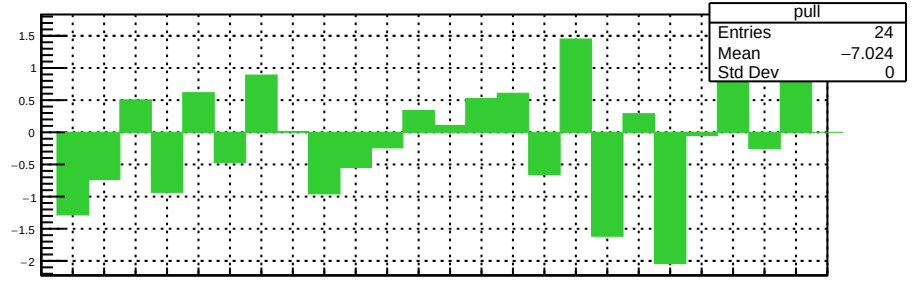

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 20.05 / 23
p0 −0.4271 ± 0.2321
3
2
1
0
−1
−2
−3
−4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −7.024
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

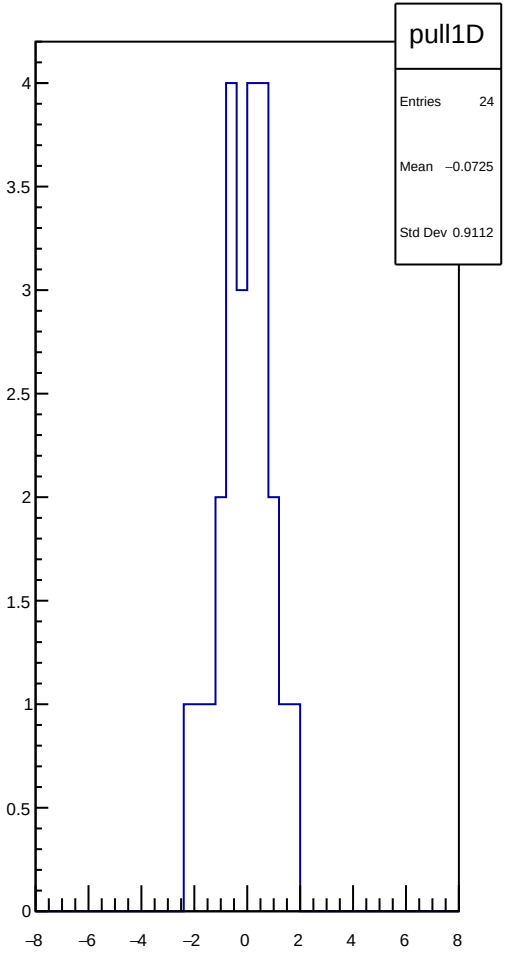

pull1D
Entries 24
Mean −0.0725
Std Dev 0.9112
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

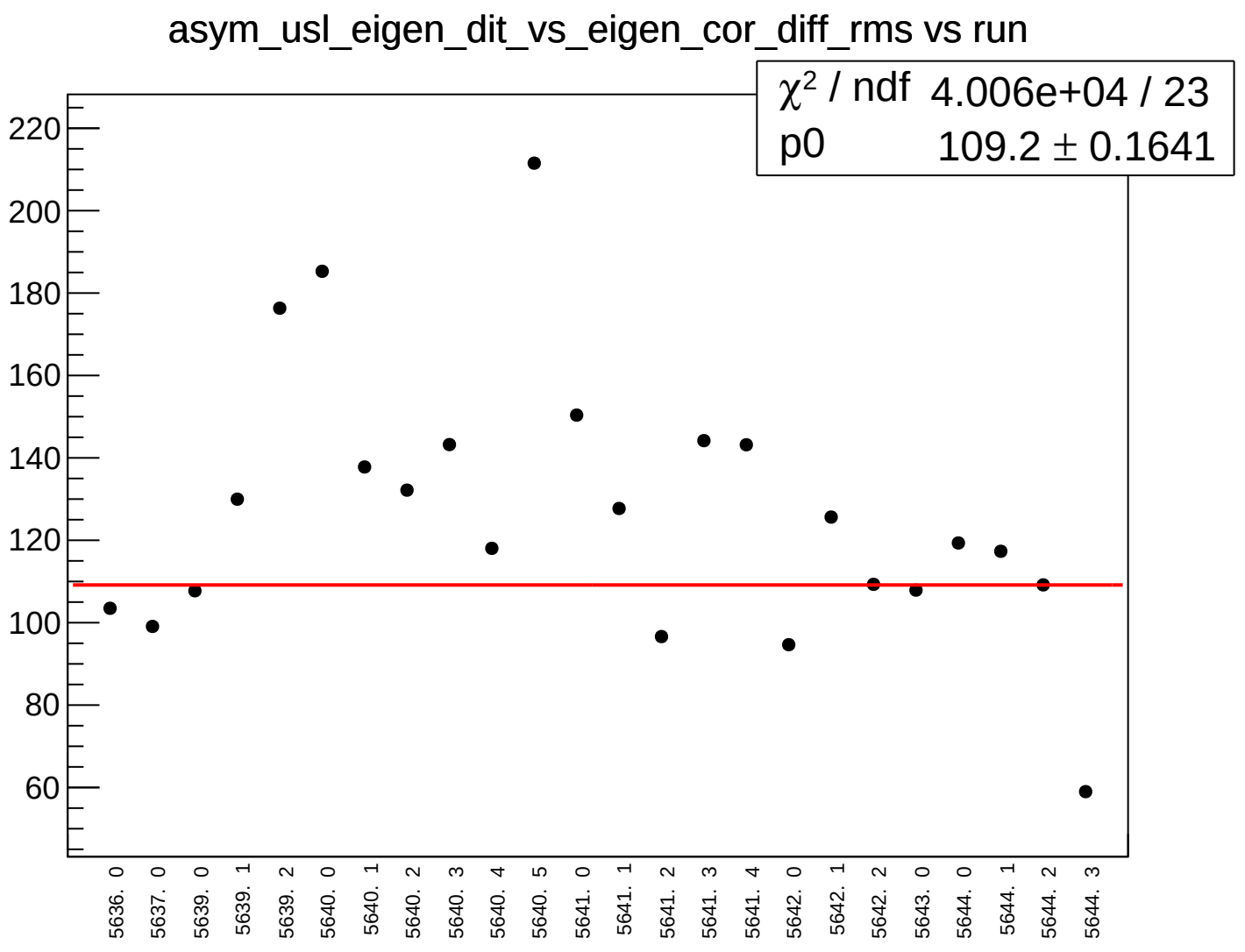

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.006e+04 / 23
p0 109.2 ± 0.1641
220
200
180
160
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

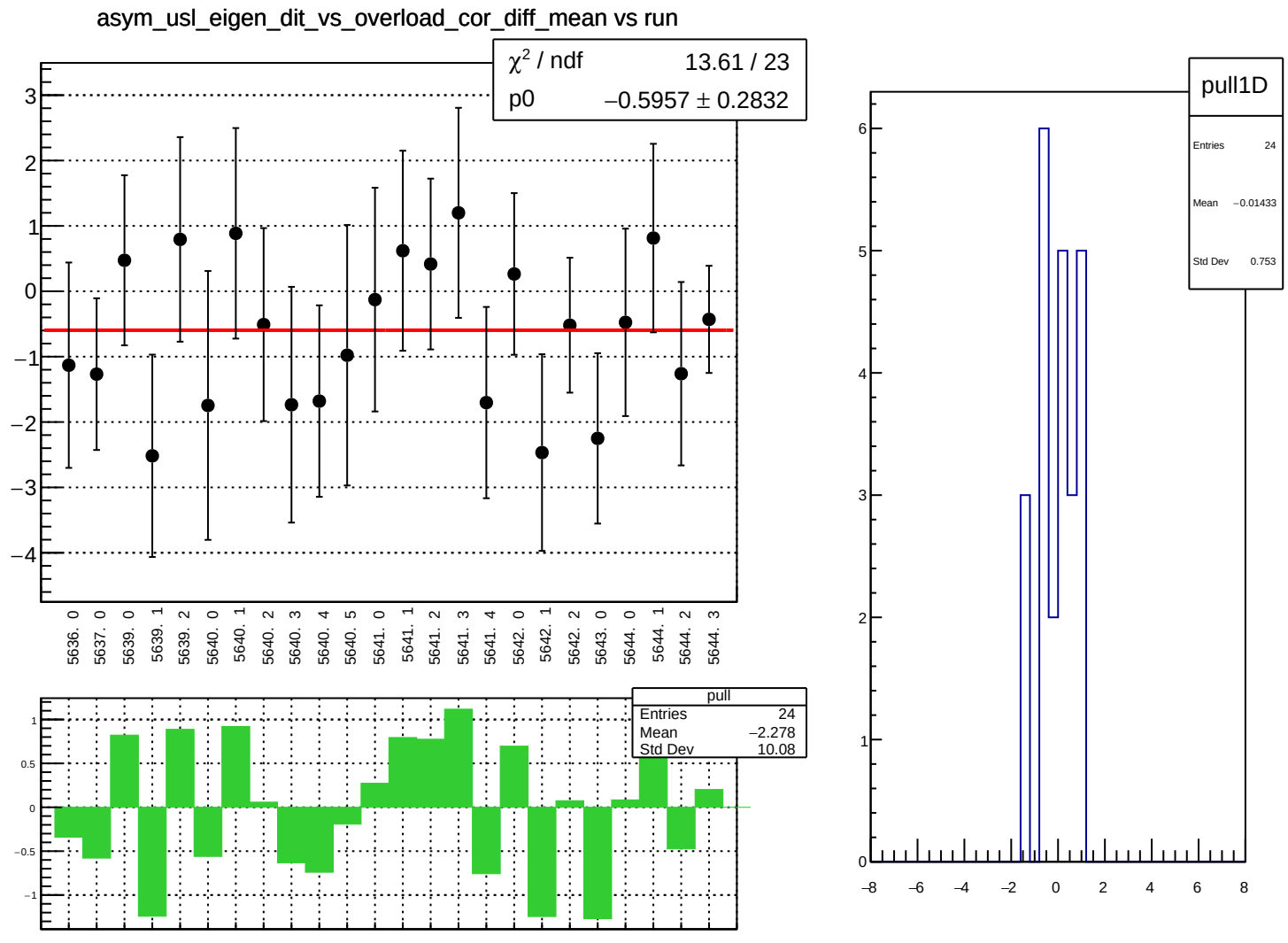
asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run

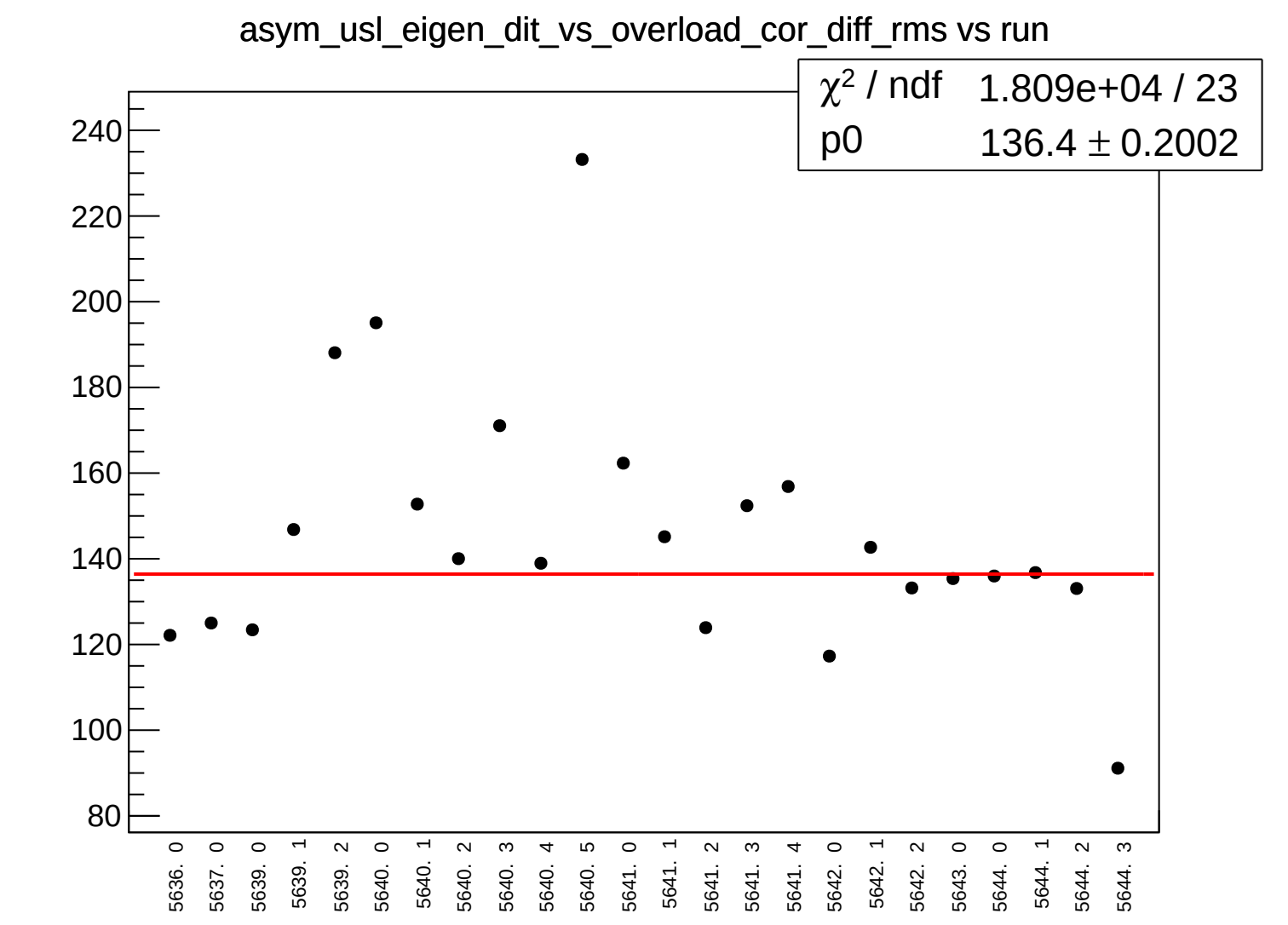


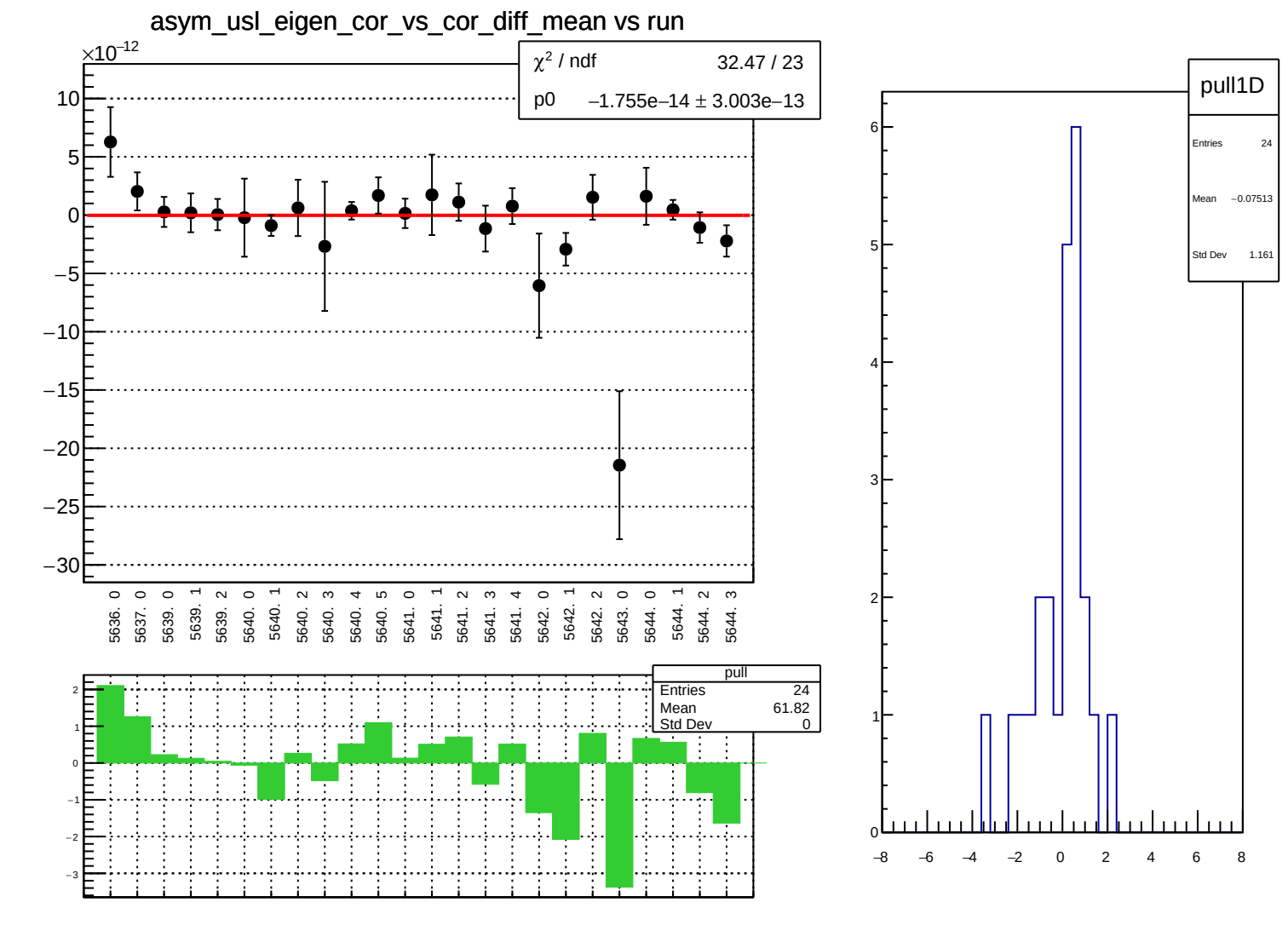


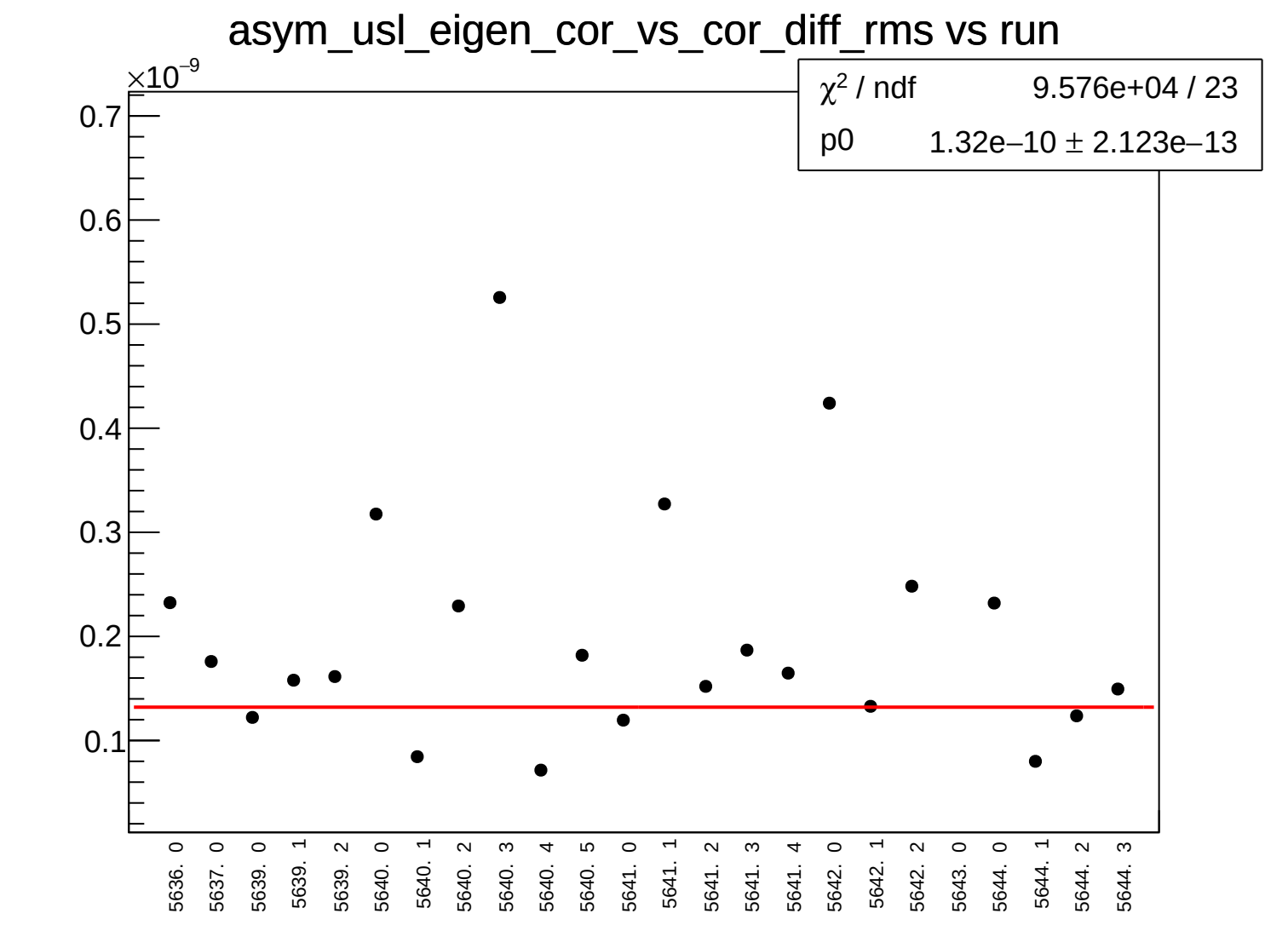


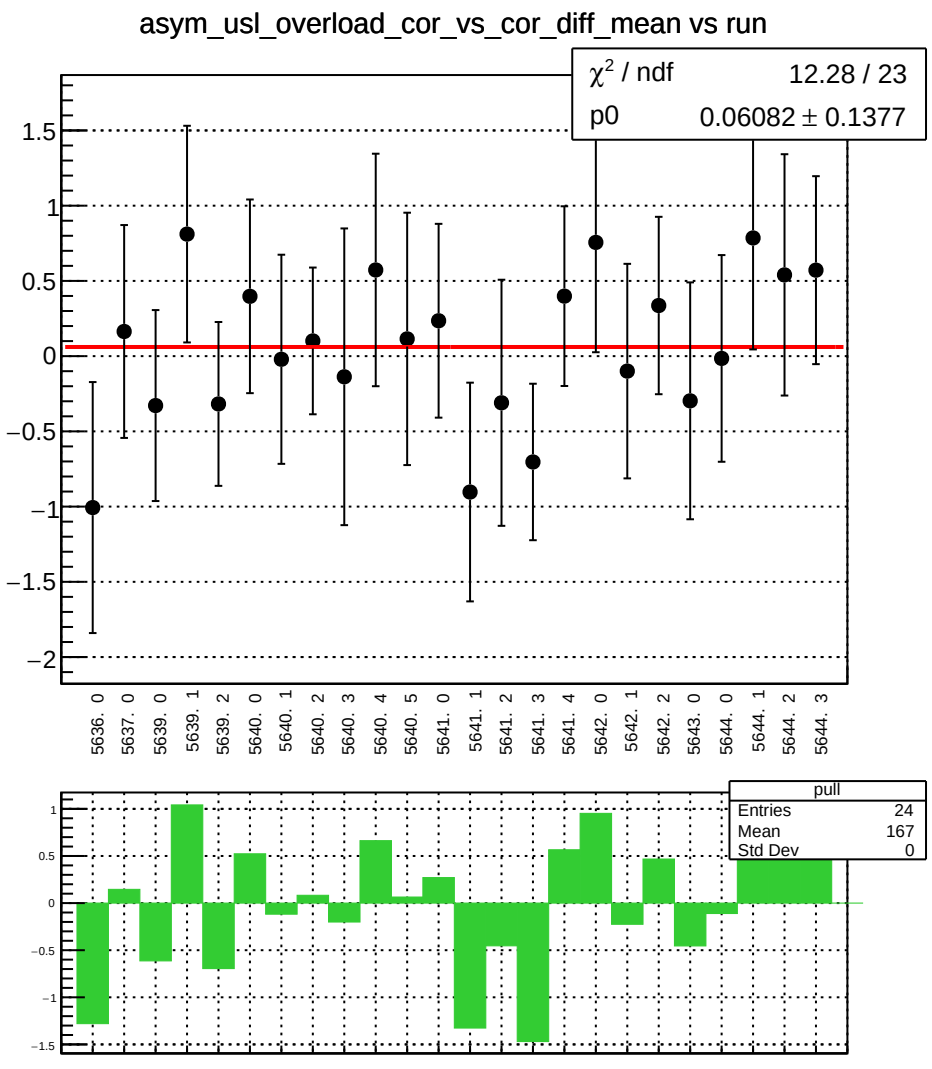

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.006e+04 / 23
p0 109.2 ± 0.1641
220
200
180
160
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

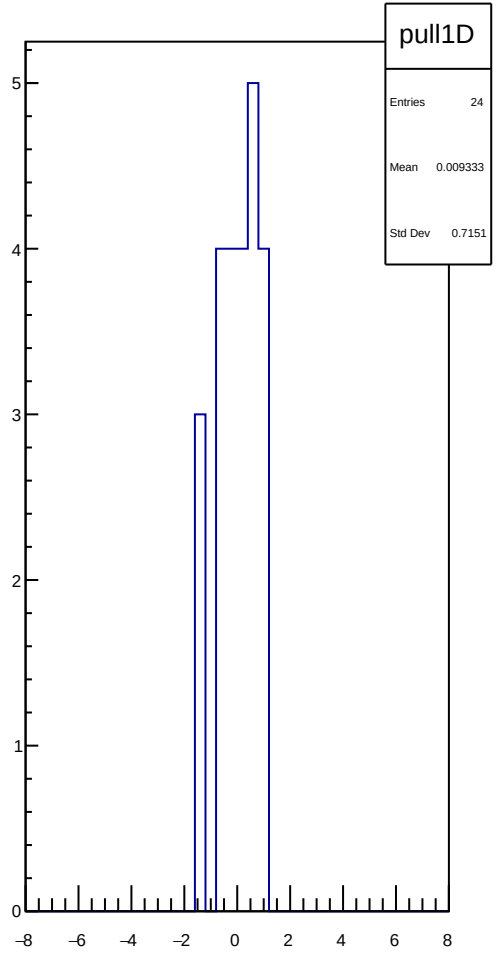

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 13.61 / 23
p0 −0.5957 ± 0.2832
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −2.278
Std Dev 10.08
pull1D
Entries 24
Mean −0.01433
Std Dev 0.753

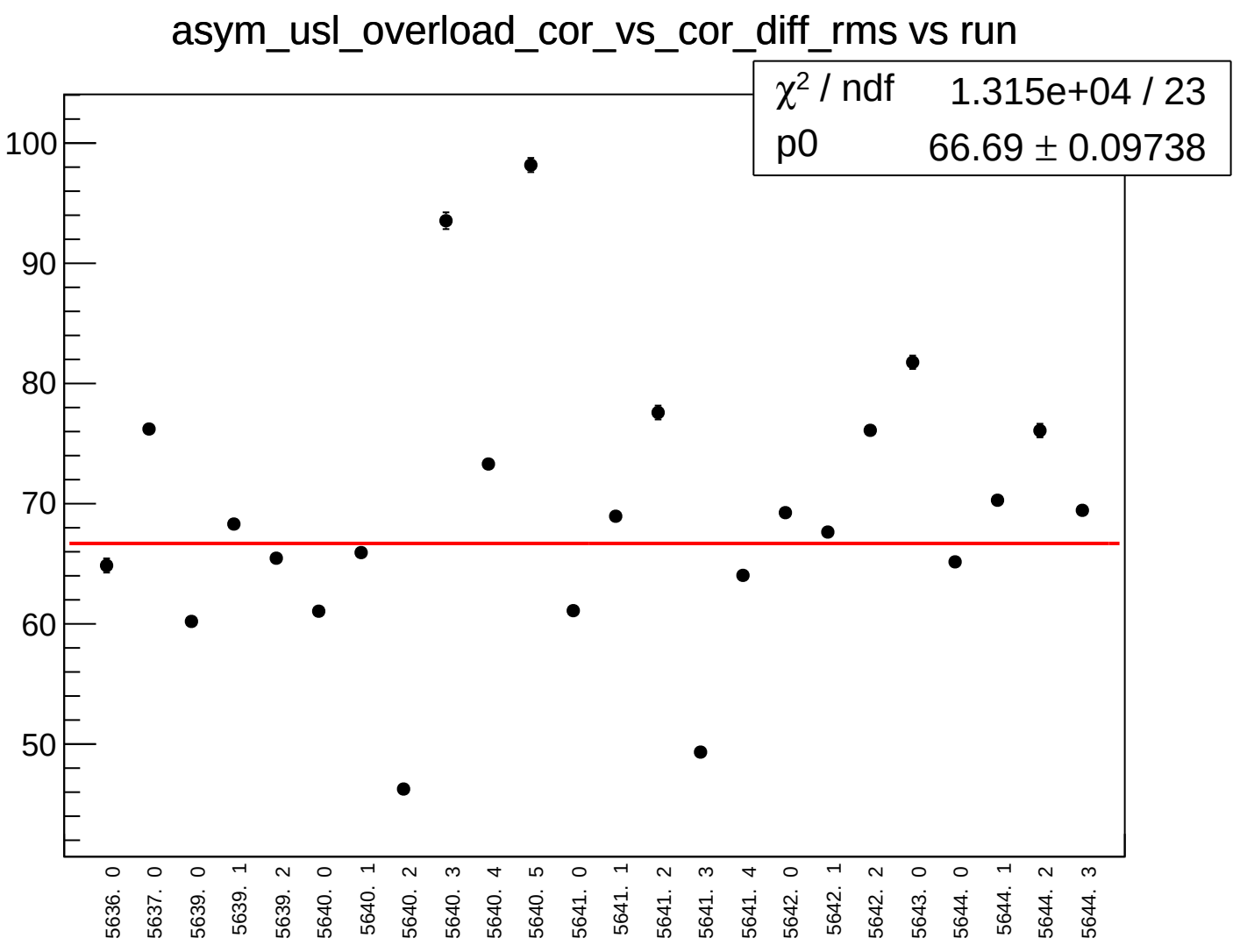

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.809e+04 / 23
p0 136.4 ± 0.2002
240
220
200
180
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

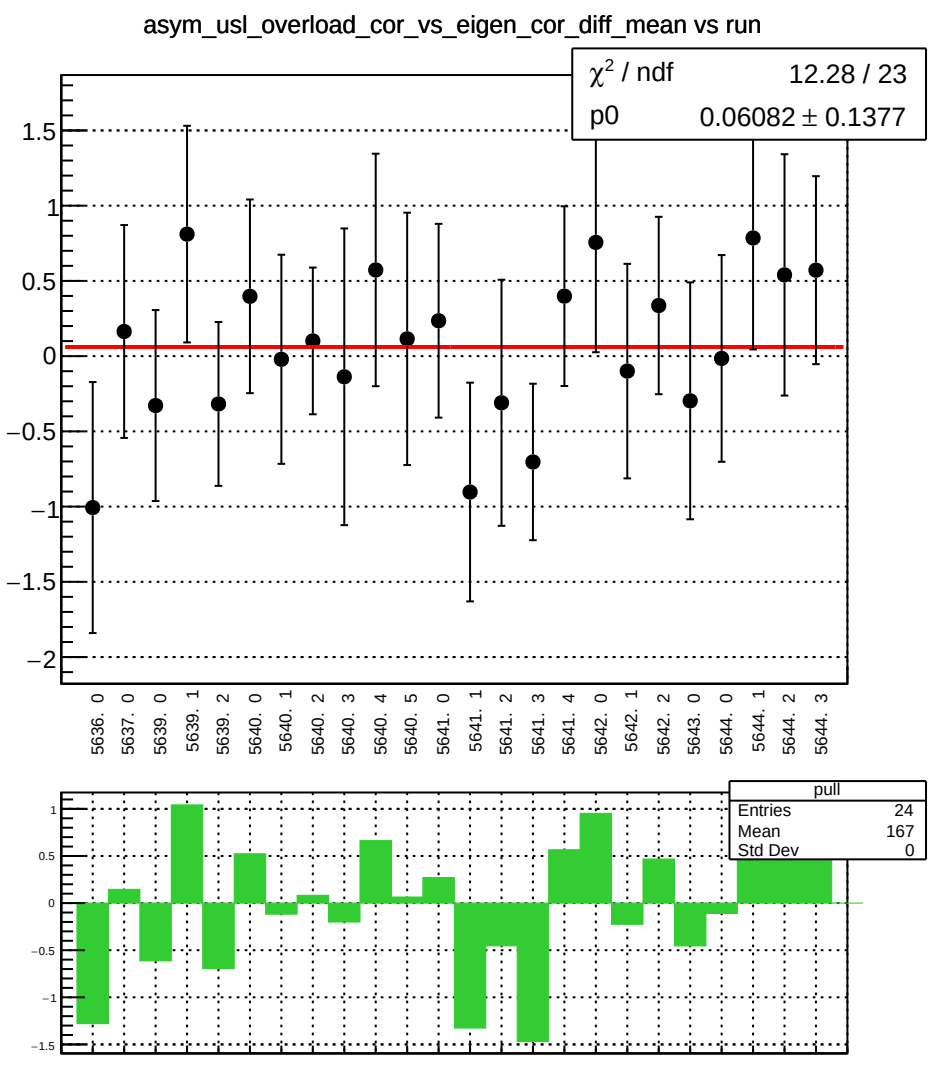

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 32.47 / 23
p0 −1.755e−14 ± 3.003e−13
10
5
0
−5
−10
−15
−20
−25
−30
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 61.82
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean −0.07513
Std Dev 1.161
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

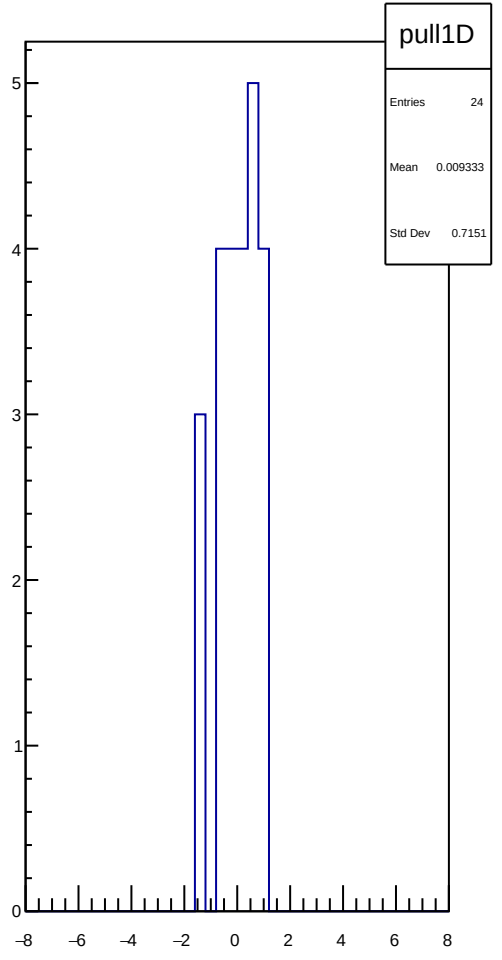

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.576e+04 / 23
p0 1.32e−10 ± 2.123e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

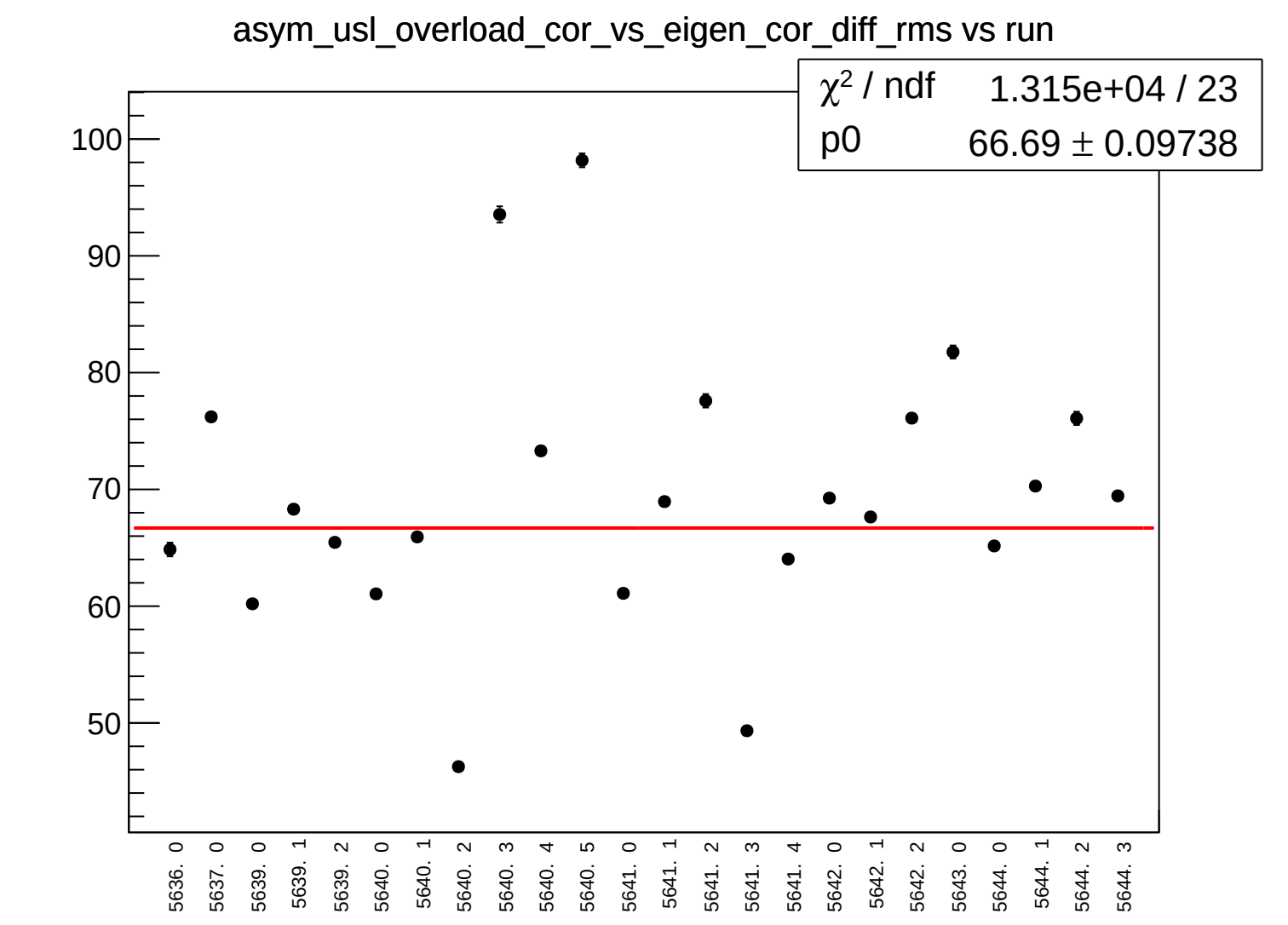

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 12.28 / 23
p0 0.06082 ± 0.1377
1.5
1
0.5
0
−0.5
−1
−1.5
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 167
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

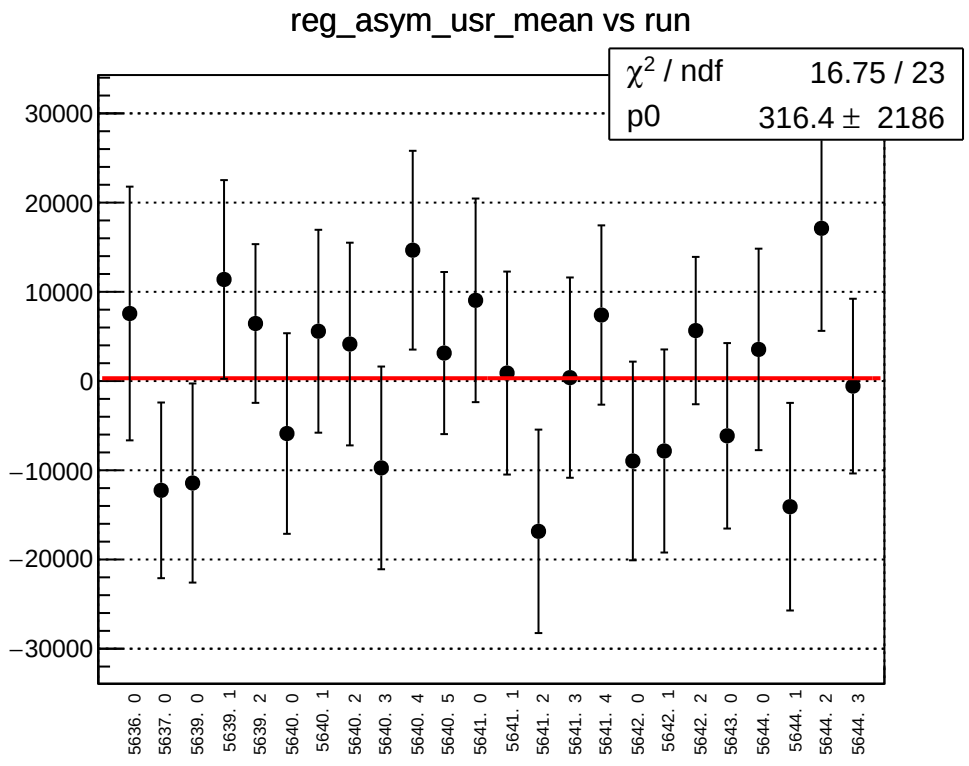

pull1D
Entries 24
Mean 0.009333
Std Dev 0.7151
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

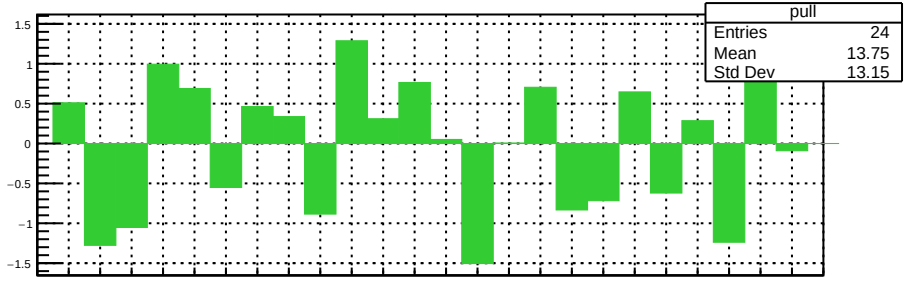

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.315e+04 / 23
p0 66.69 ± 0.09738
100
90
80
70
60
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

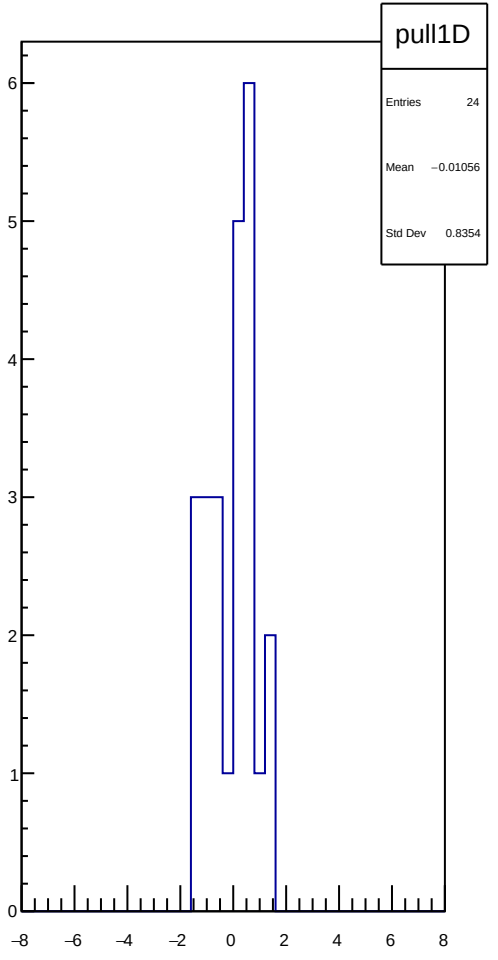

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 12.28 / 23
p0 0.06082 ± 0.1377
1.5
1
0.5
0
−0.5
−1
−1.5
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 167
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

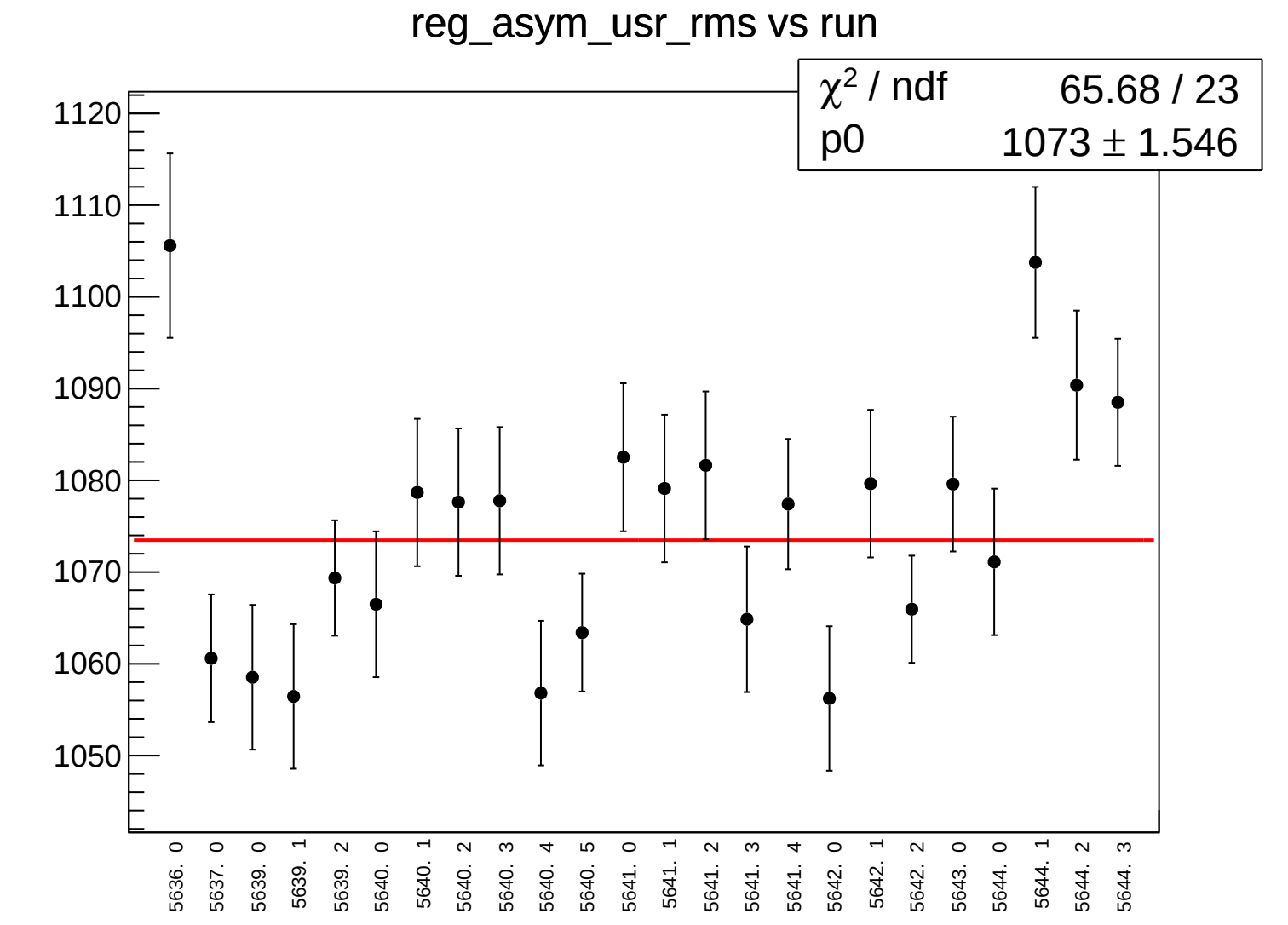

pull1D
Entries 24
Mean 0.009333
Std Dev 0.7151
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

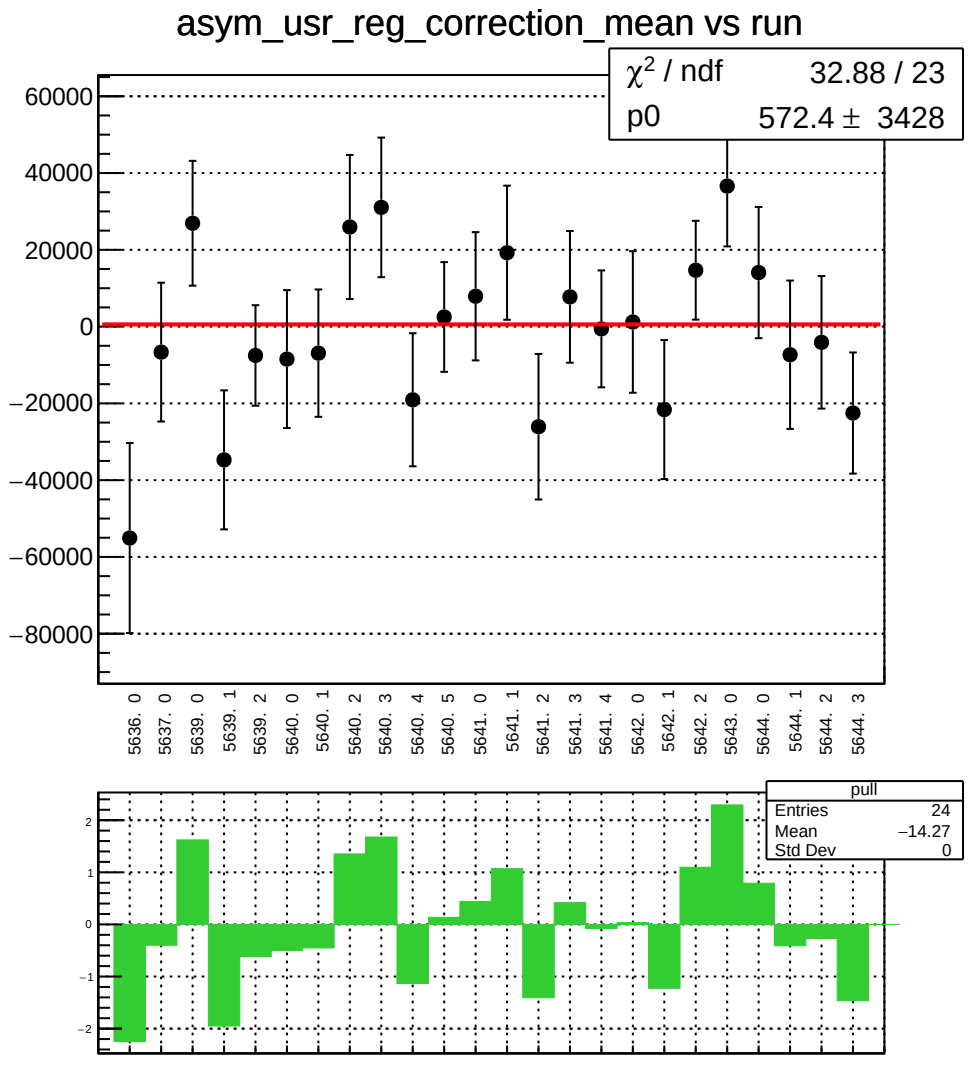

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.315e+04 / 23
p0 66.69 ± 0.09738
100
90
80
70
60
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

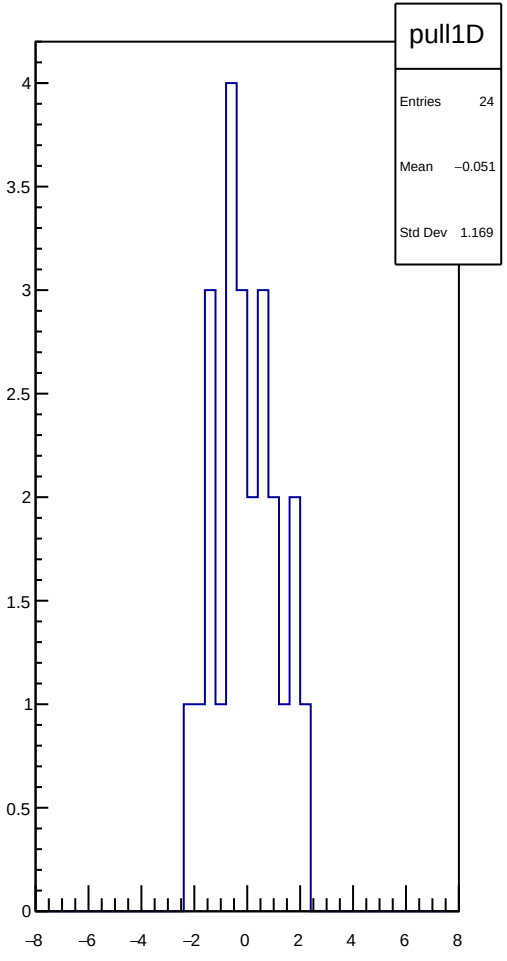

reg_asym_usr_mean vs run
χ² / ndf 16.75 / 23
p0 316.4 ± 2186
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

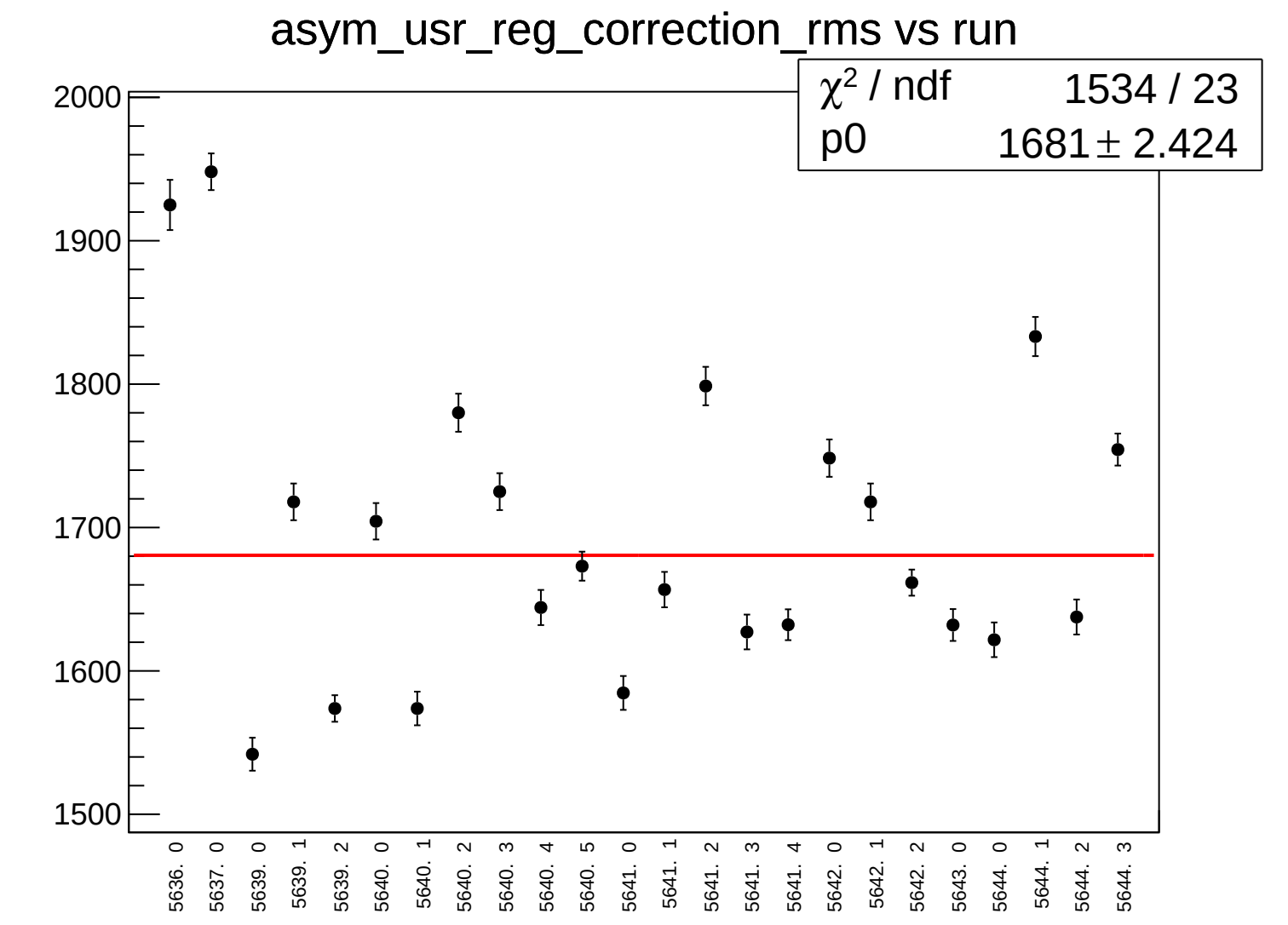

pull
Entries 24
Mean 13.75
Std Dev 13.15
1.5
1
0.5
0
−0.5
−1
−1.5

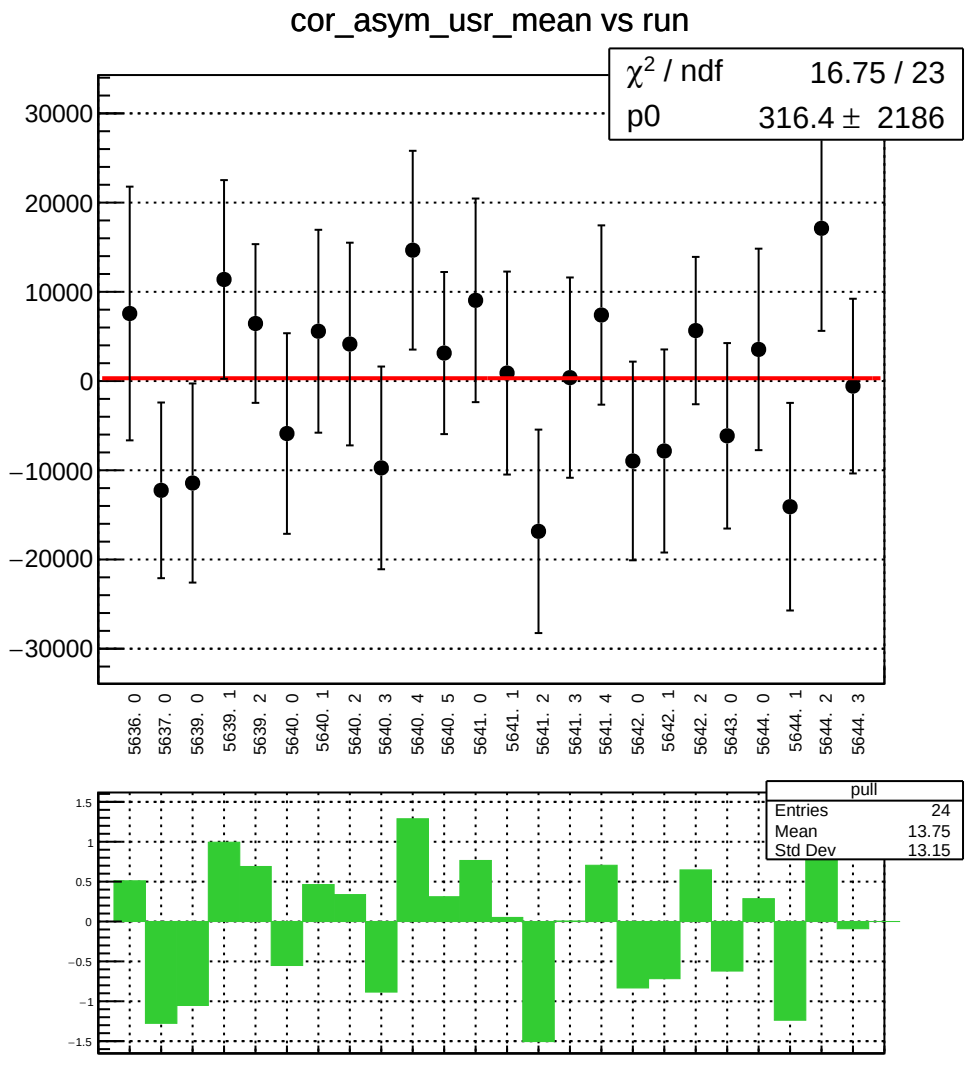

pull1D
Entries 24
Mean −0.01056
Std Dev 0.8354
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

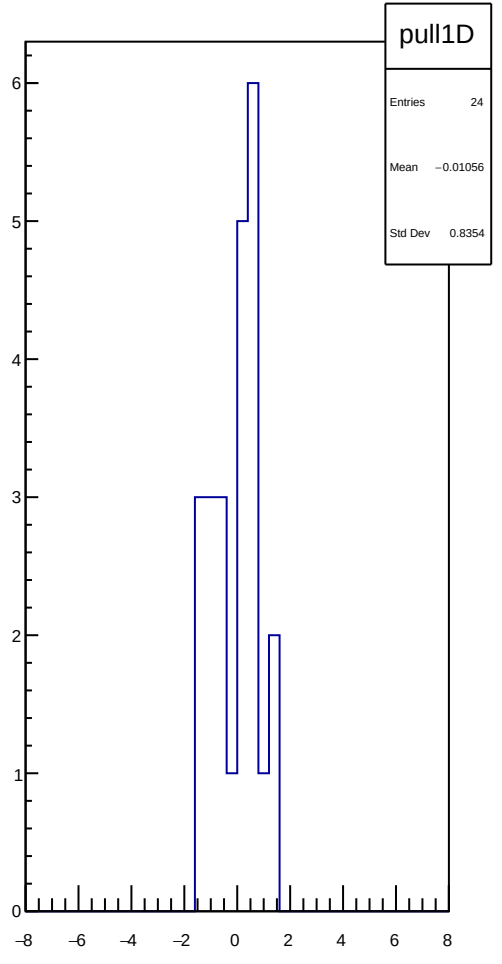

reg_asym_usr_rms vs run
χ² / ndf 65.68 / 23
p0 1073 ± 1.546
1120
1110
1100
1090
1080
1070
1060
1050
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

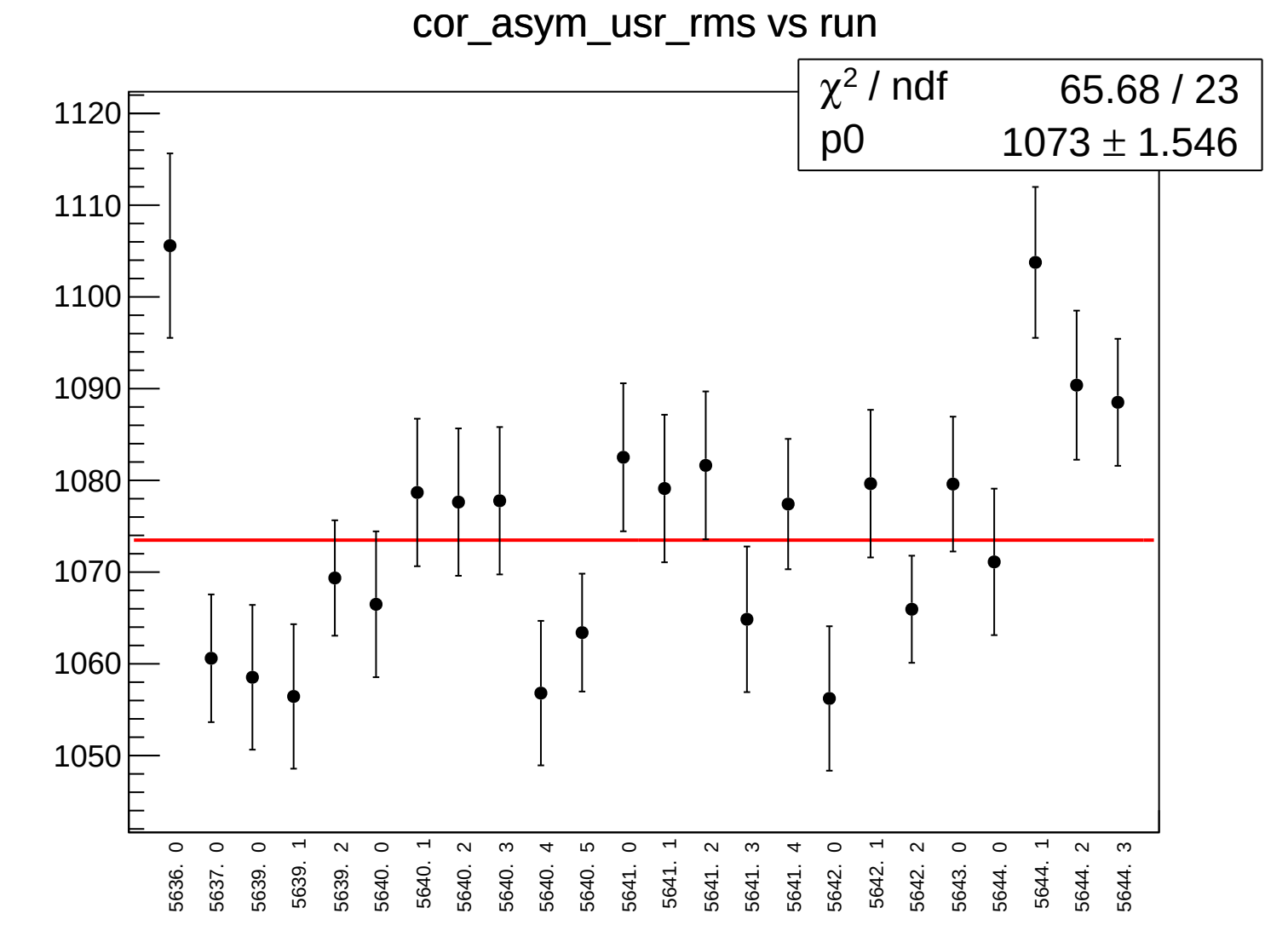

asym_usr_reg_correction_mean vs run
χ² / ndf 32.88 / 23
p0 572.4 ± 3428
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −14.27
Std Dev 0
2
1
0
−1
−2

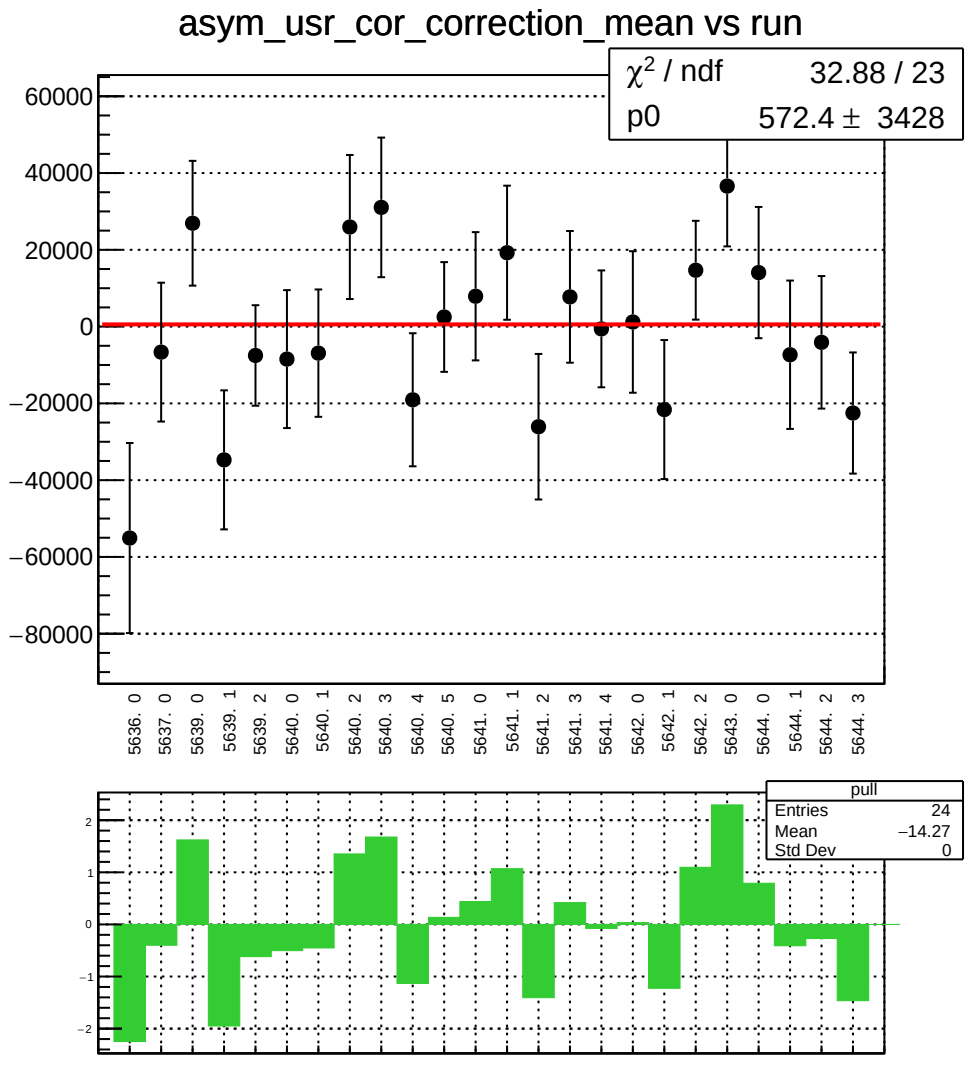

pull1D
Entries 24
Mean −0.051
Std Dev 1.169
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

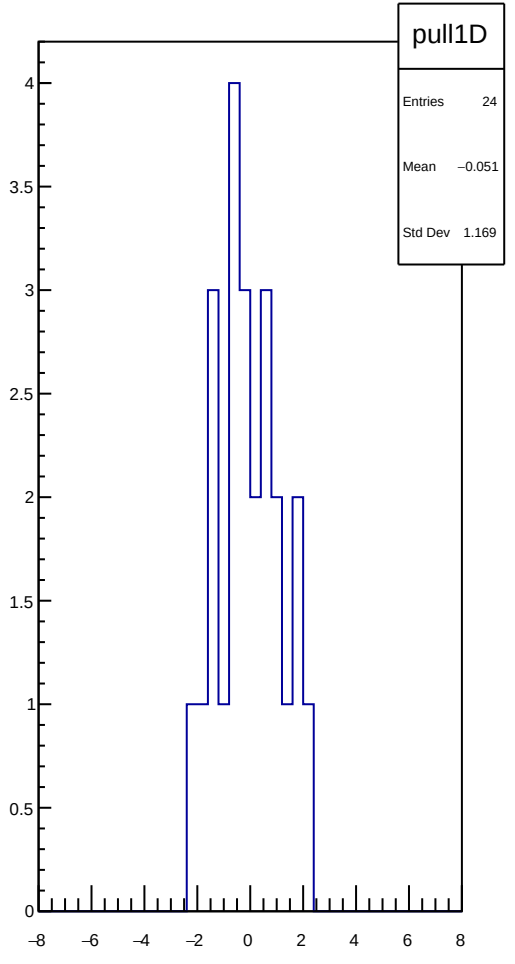

asym_usr_reg_correction_rms vs run
χ² / ndf 1534 / 23
p0 1681 ± 2.424
2000
1900
1800
1700
1600
1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

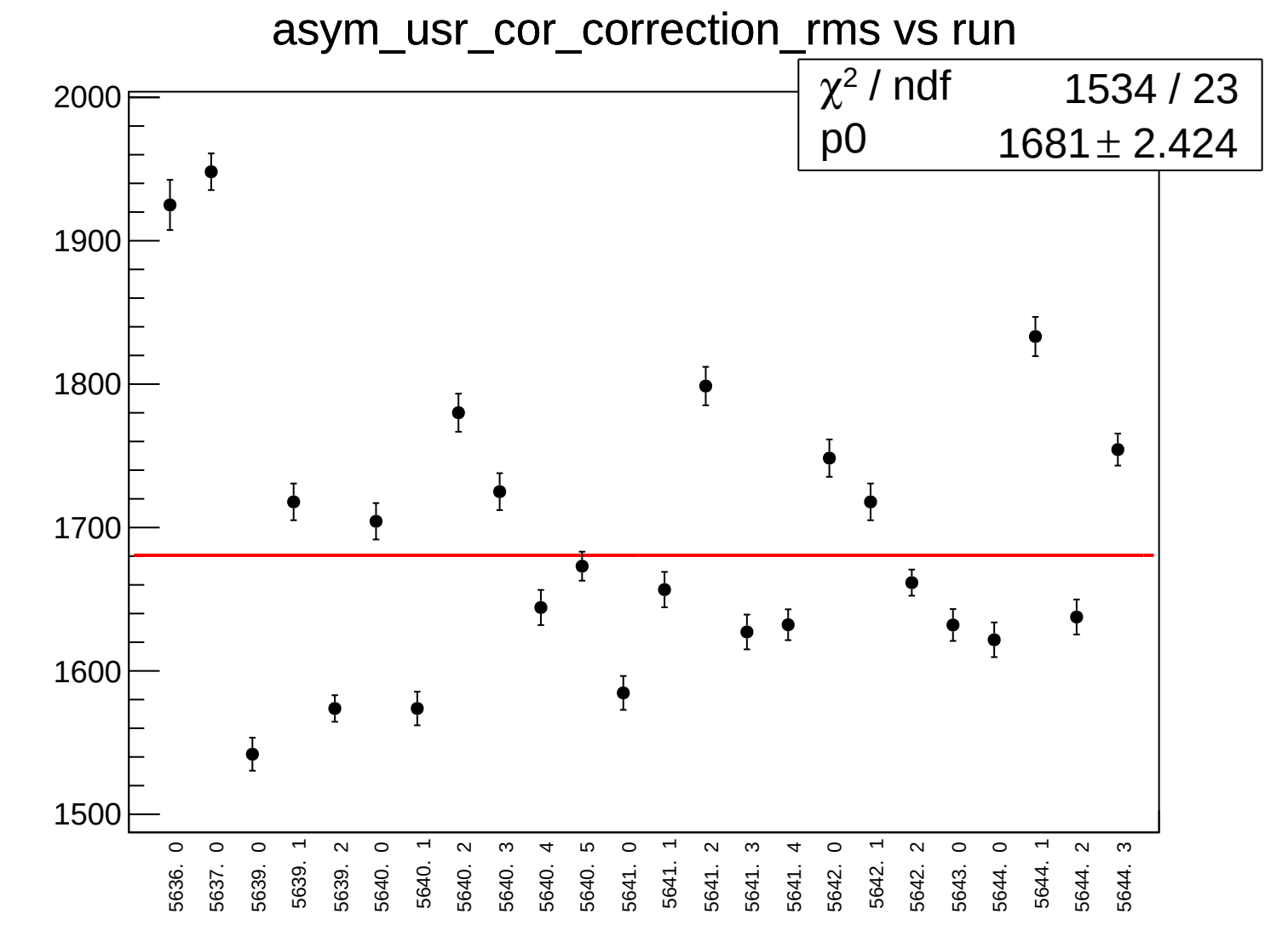

cor_asym_usr_mean vs run
χ² / ndf 16.75 / 23
p0 316.4 ± 2186
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 13.75
Std Dev 13.15
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean −0.01056
Std Dev 0.8354
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usr_rms vs run
χ² / ndf 65.68 / 23
p0 1073 ± 1.546
1120
1110
1100
1090
1080
1070
1060
1050
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_usr_cor_correction_mean vs run
χ² / ndf 32.88 / 23
p0 572.4 ± 3428
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −14.27
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 24
Mean −0.051
Std Dev 1.169
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_cor_correction_rms vs run
χ² / ndf 1534 / 23
p0 1681 ± 2.424
2000
1900
1800
1700
1600
1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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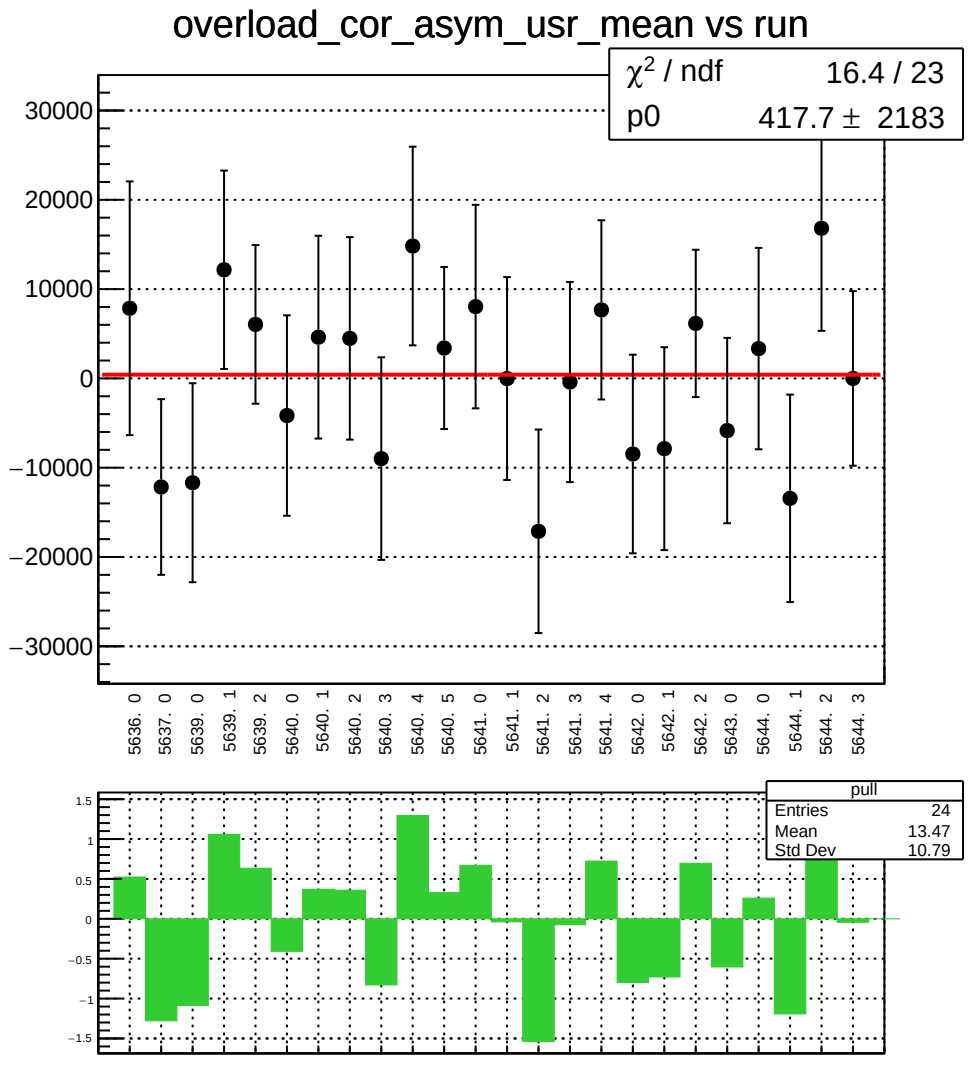
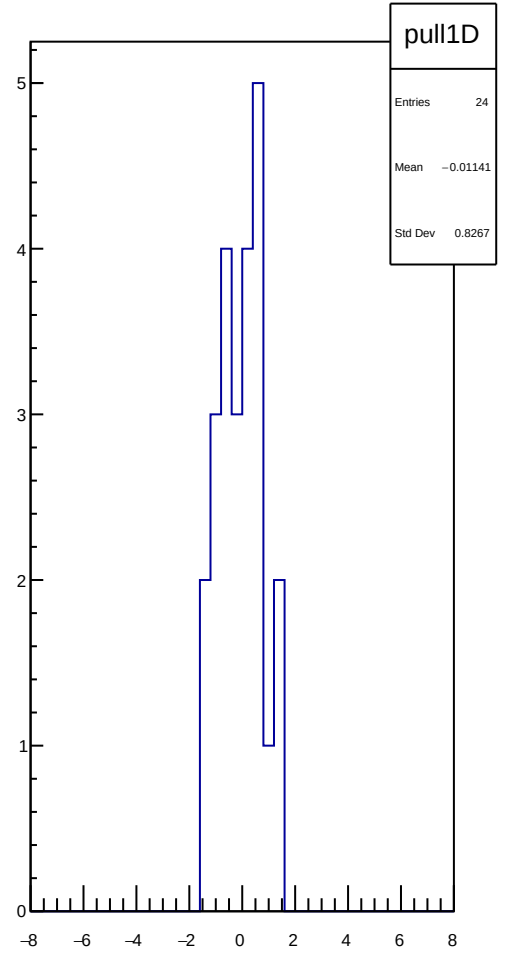
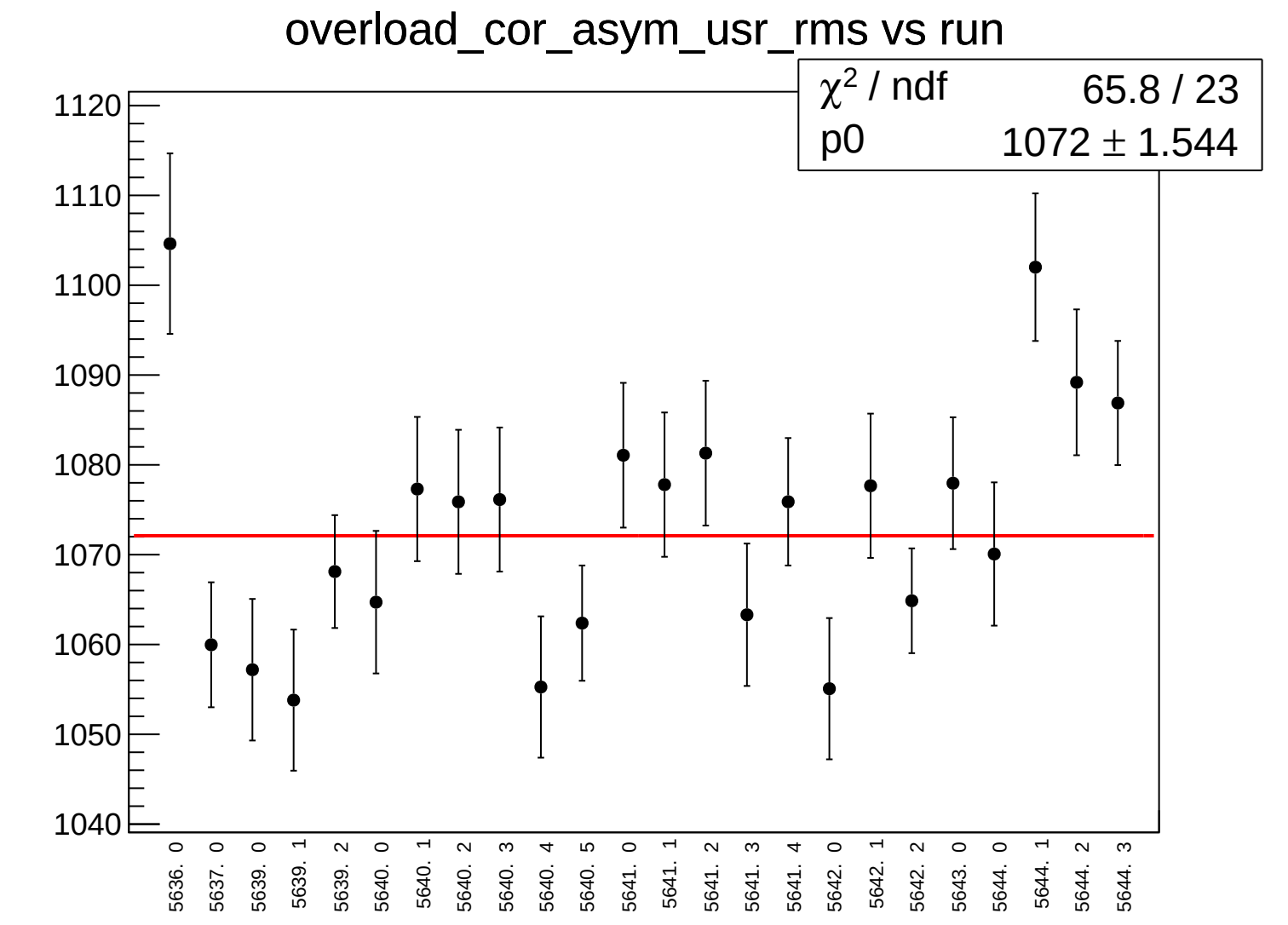
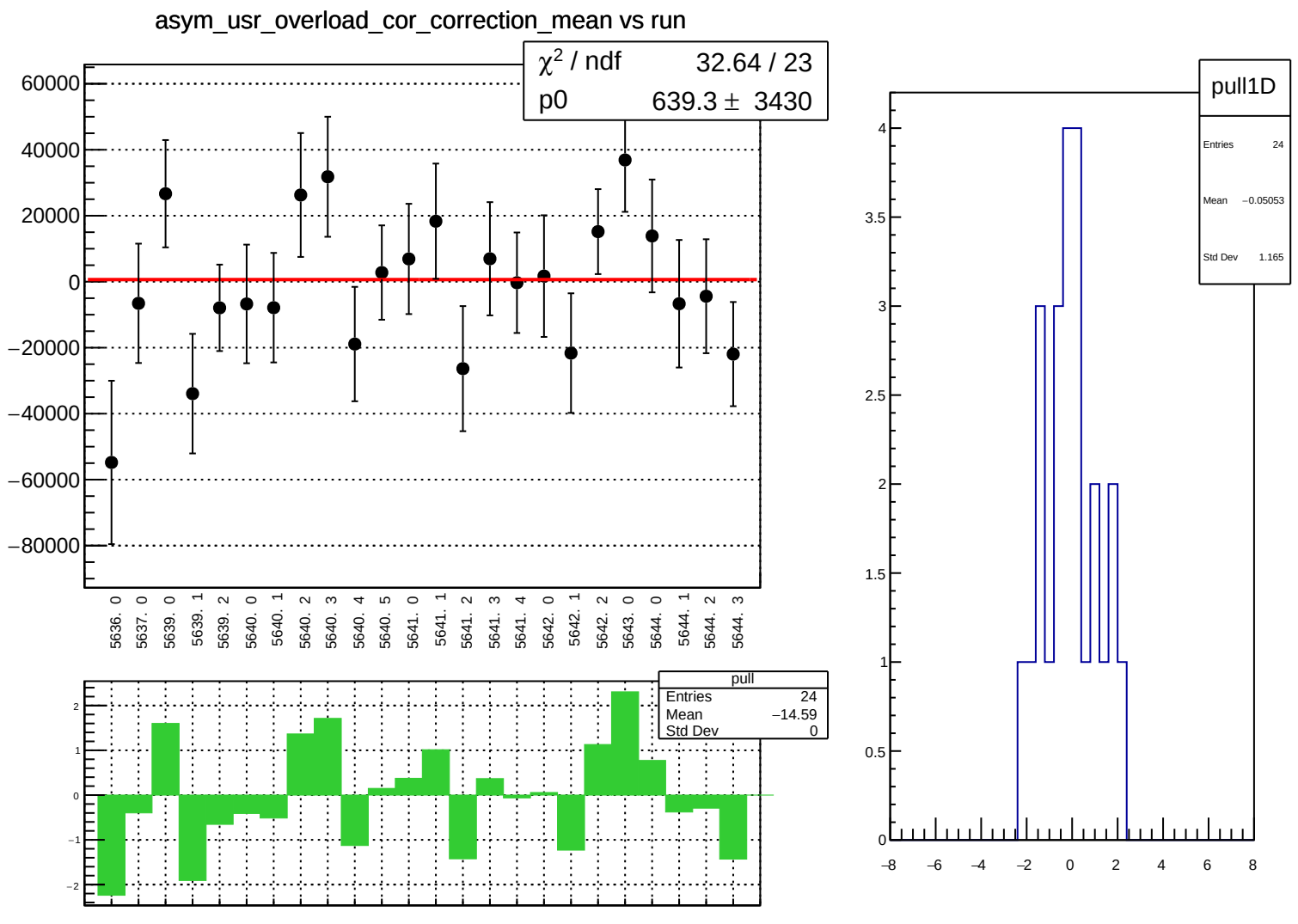
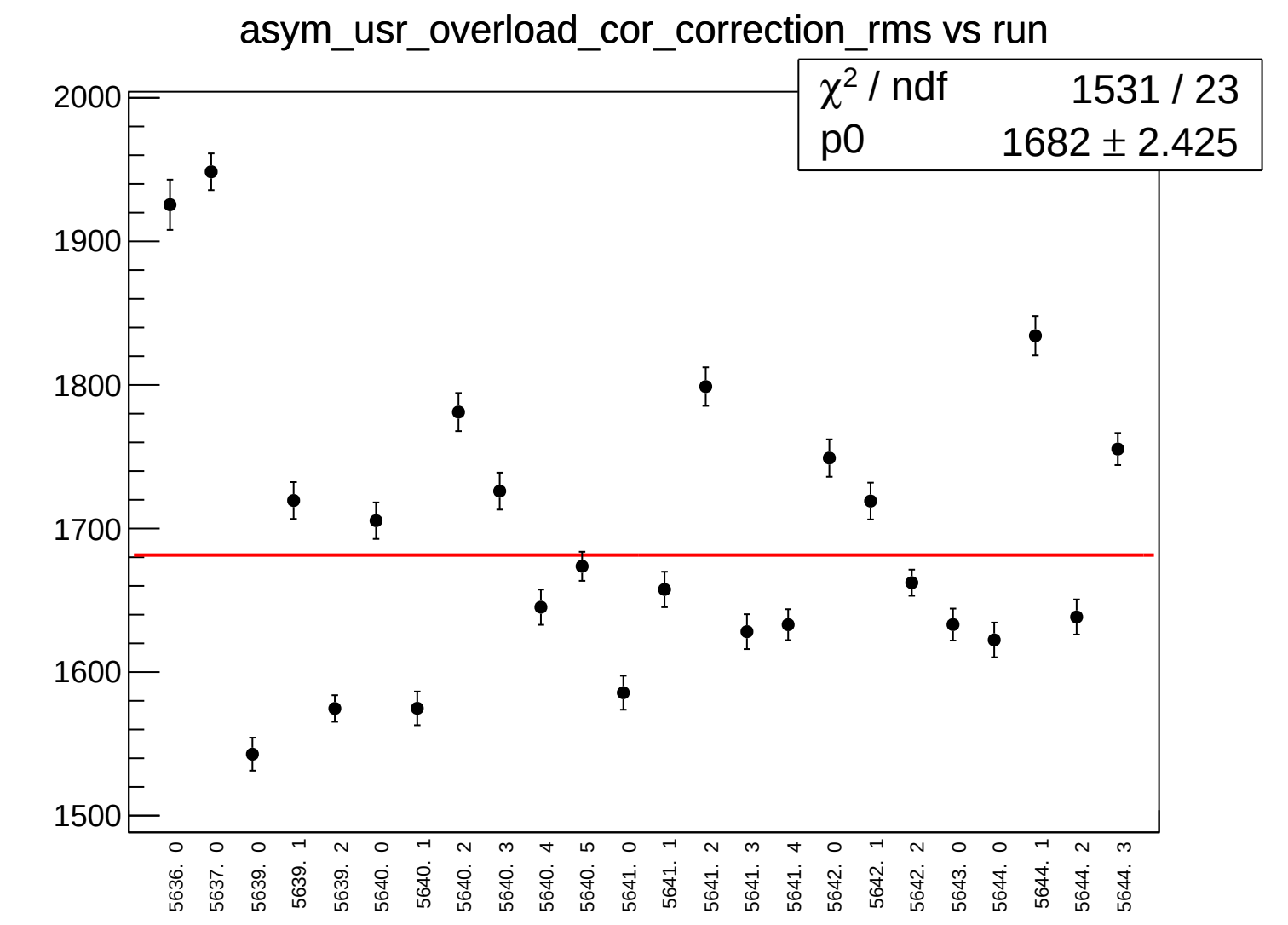
5644. 2
5644. 3

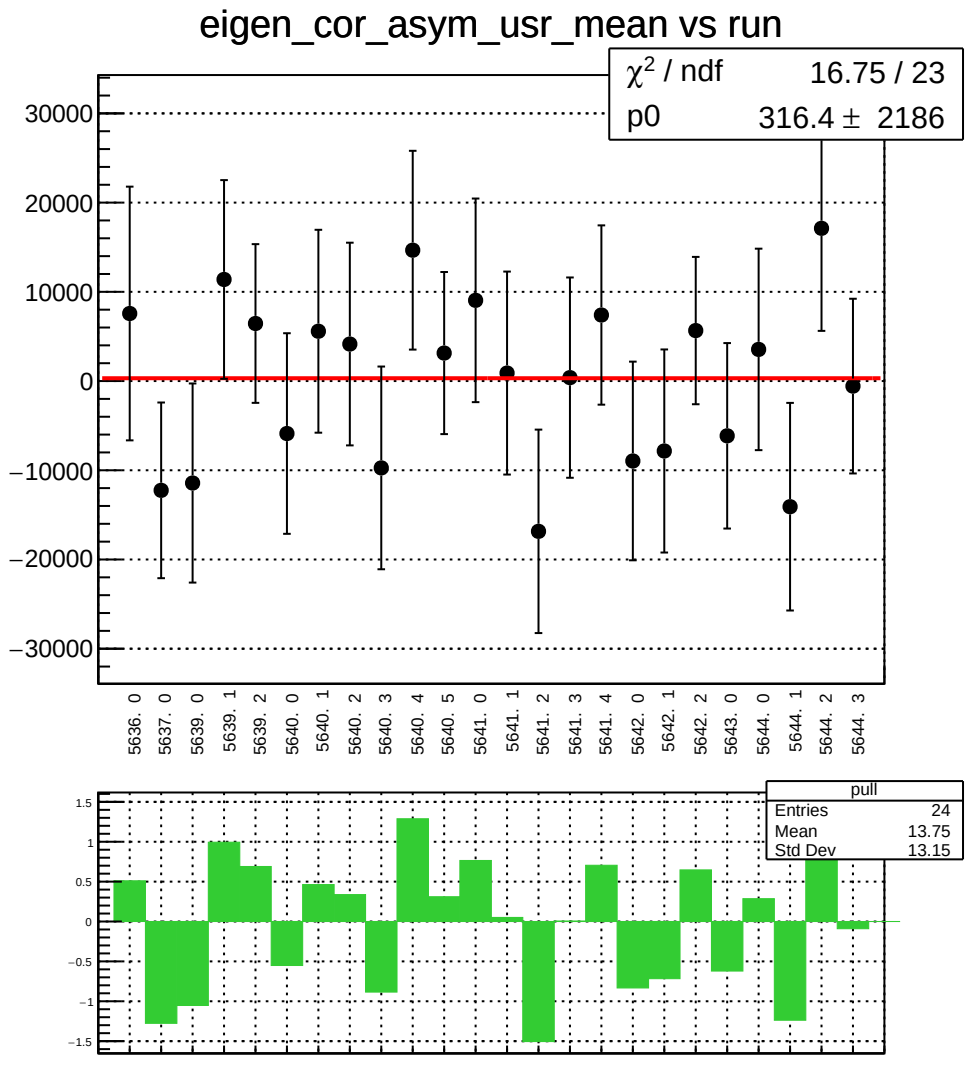

overload_cor_asym_usr_mean vs run
χ² / ndf 16.4 / 23
p0 417.7 ± 2183
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 13.47
Std Dev 10.79
1.5
1
0.5
0
−0.5
−1
−1.5

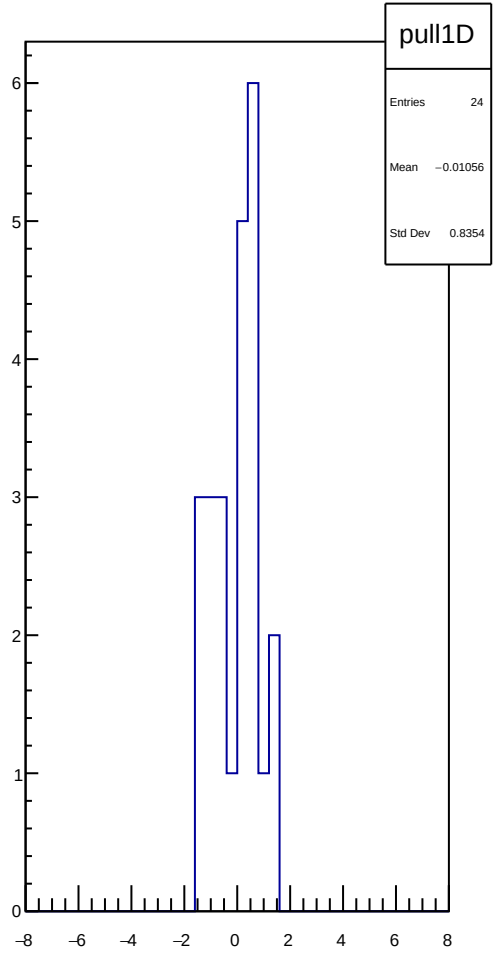

pull1D
Entries 24
Mean −0.01141
Std Dev 0.8267
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

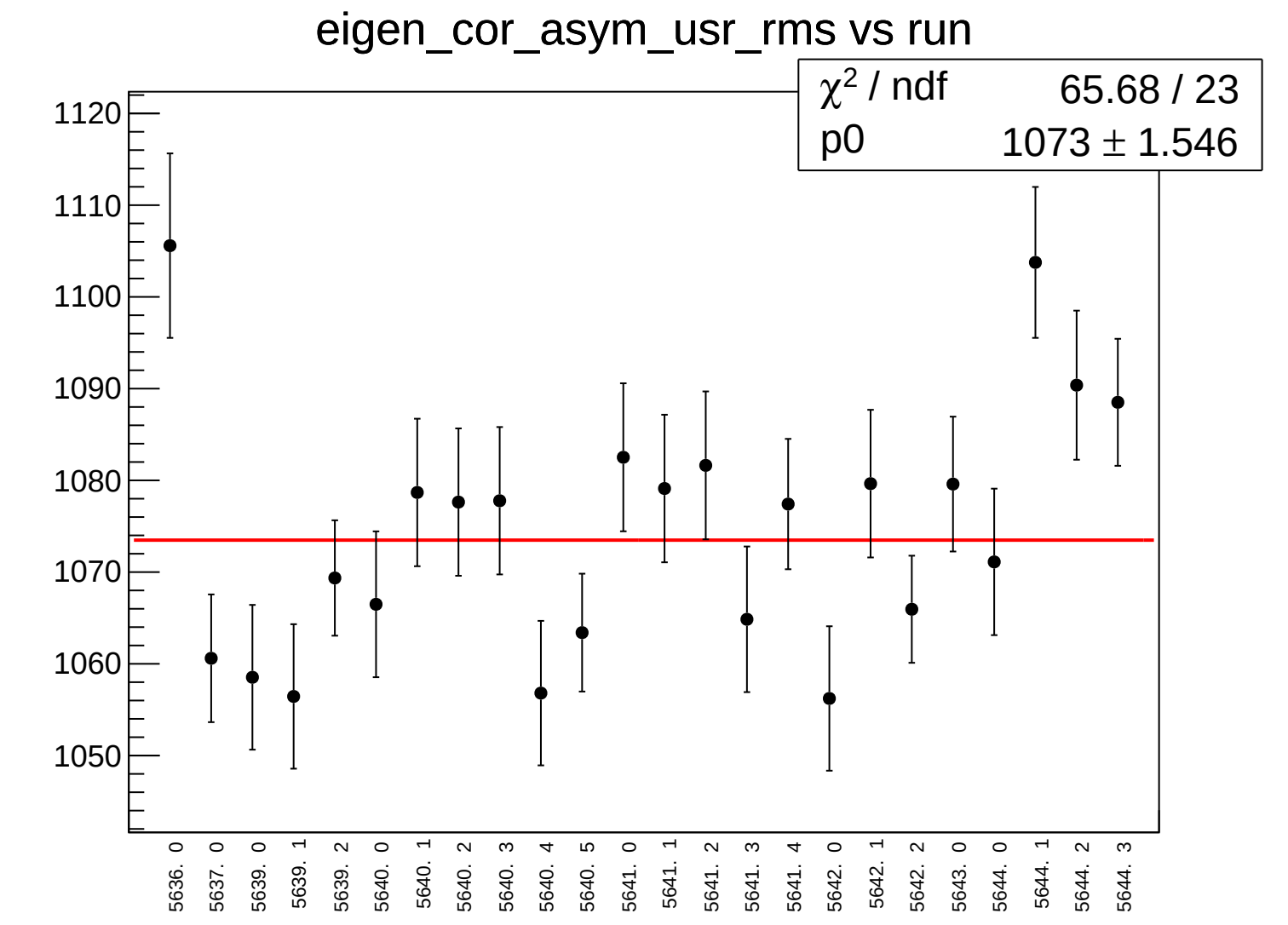

overload_cor_asym_usr_rms vs run
χ² / ndf 65.8 / 23
p0 1072 ± 1.544
1120
1110
1100
1090
1080
1070
1060
1050
1040
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

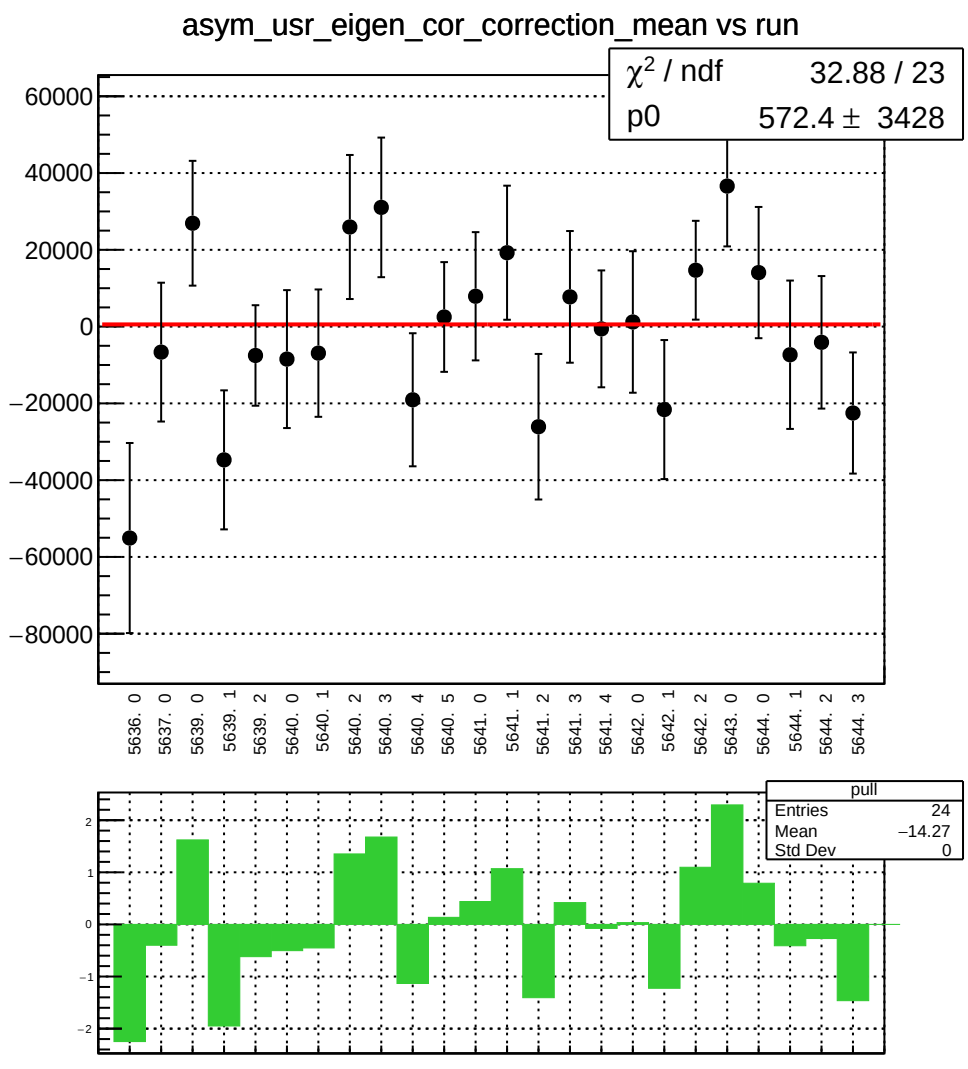

asym_usr_overload_cor_correction_mean vs run
χ² / ndf 32.64 / 23
p0 639.3 ± 3430
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −14.59
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 24
Mean −0.05053
Std Dev 1.165
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

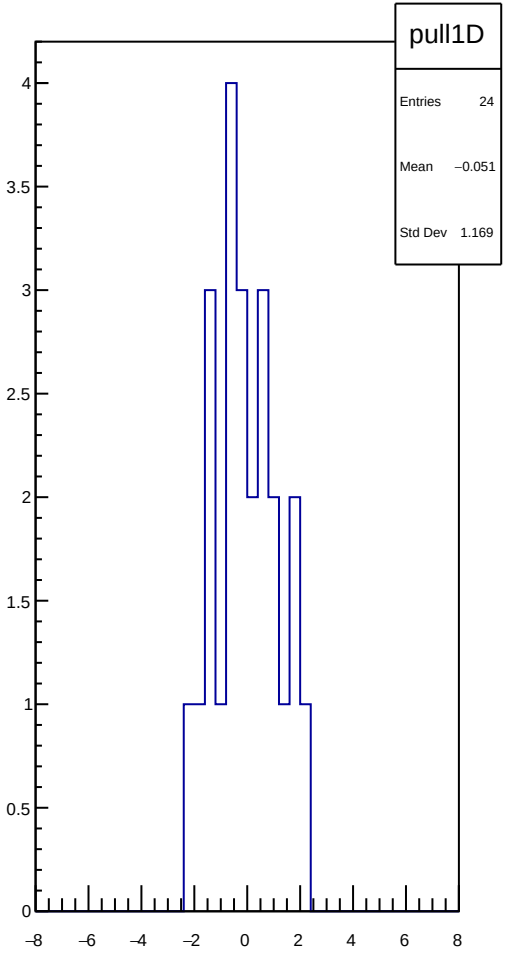

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 1531 / 23
p0 1682 ± 2.425
2000
1900
1800
1700
1600
1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

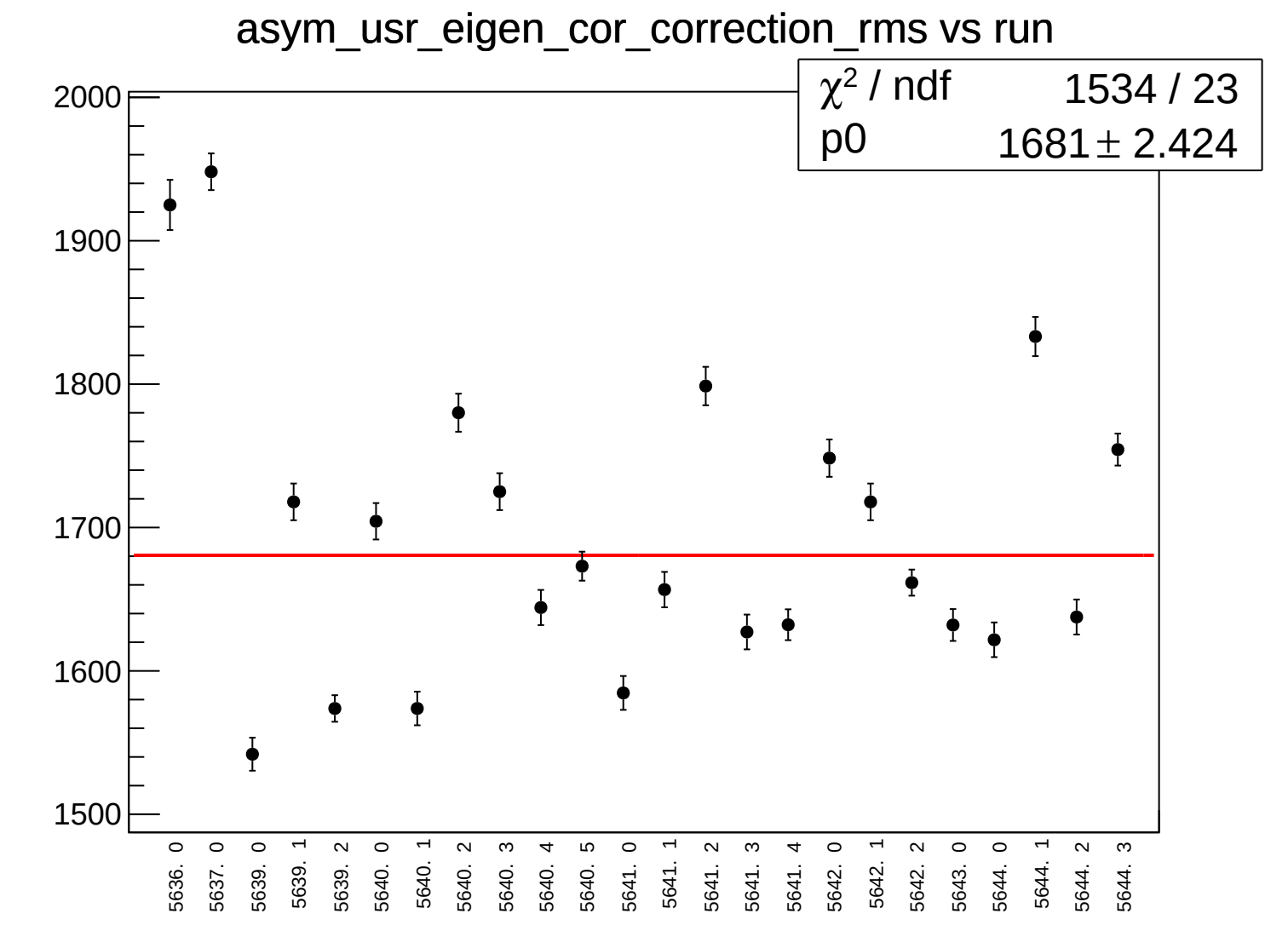

eigen_cor_asym_usr_mean vs run
χ² / ndf 16.75 / 23
p0 316.4 ± 2186
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 13.75
Std Dev 13.15
1.5
1
0.5
0
−0.5
−1
−1.5

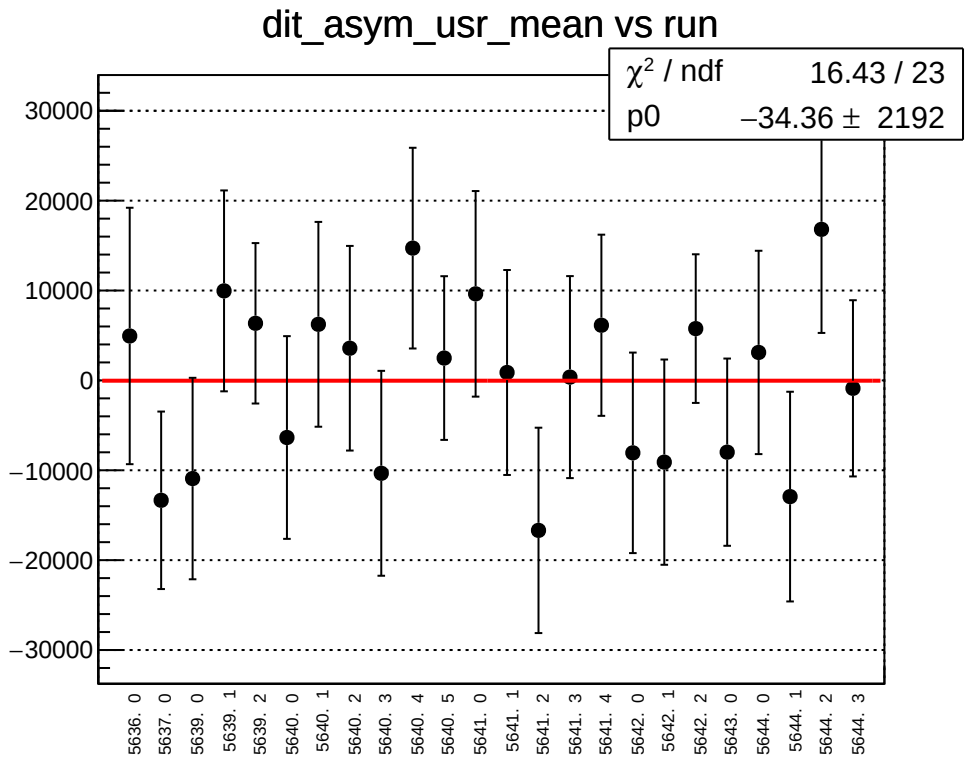

pull1D
Entries 24
Mean −0.01056
Std Dev 0.8354
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

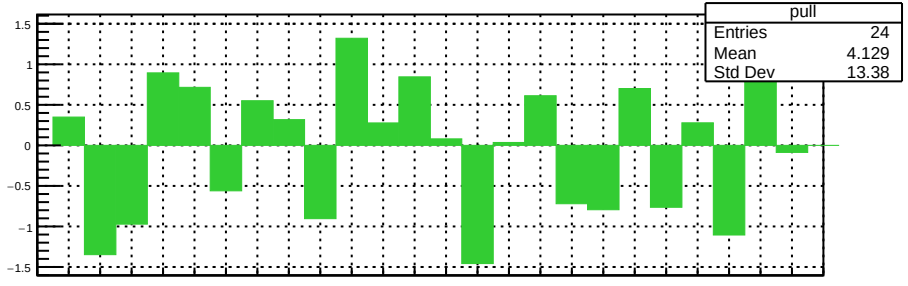

eigen_cor_asym_usr_rms vs run
χ² / ndf 65.68 / 23
p0 1073 ± 1.546
1120
1110
1100
1090
1080
1070
1060
1050
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

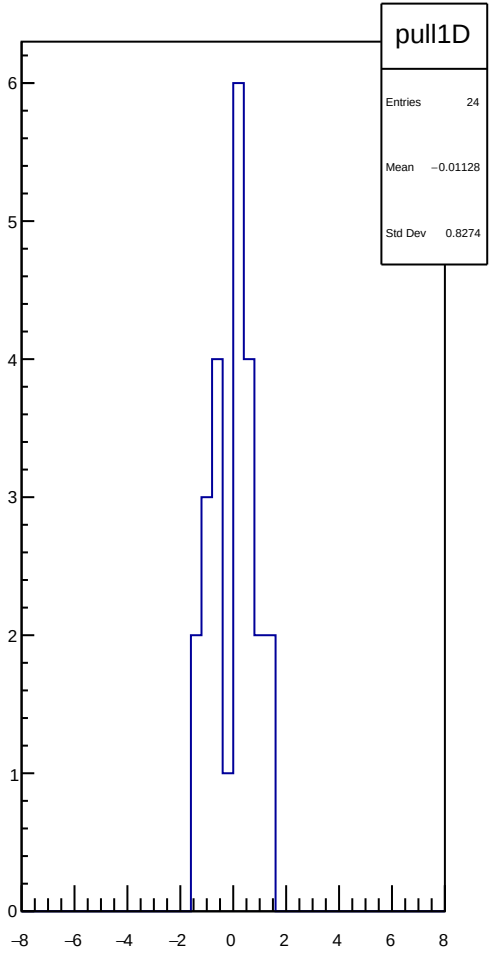

asym_usr_eigen_cor_correction_mean vs run
χ² / ndf 32.88 / 23
p0 572.4 ± 3428
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −14.27
Std Dev 0
2
1
0
−1
−2

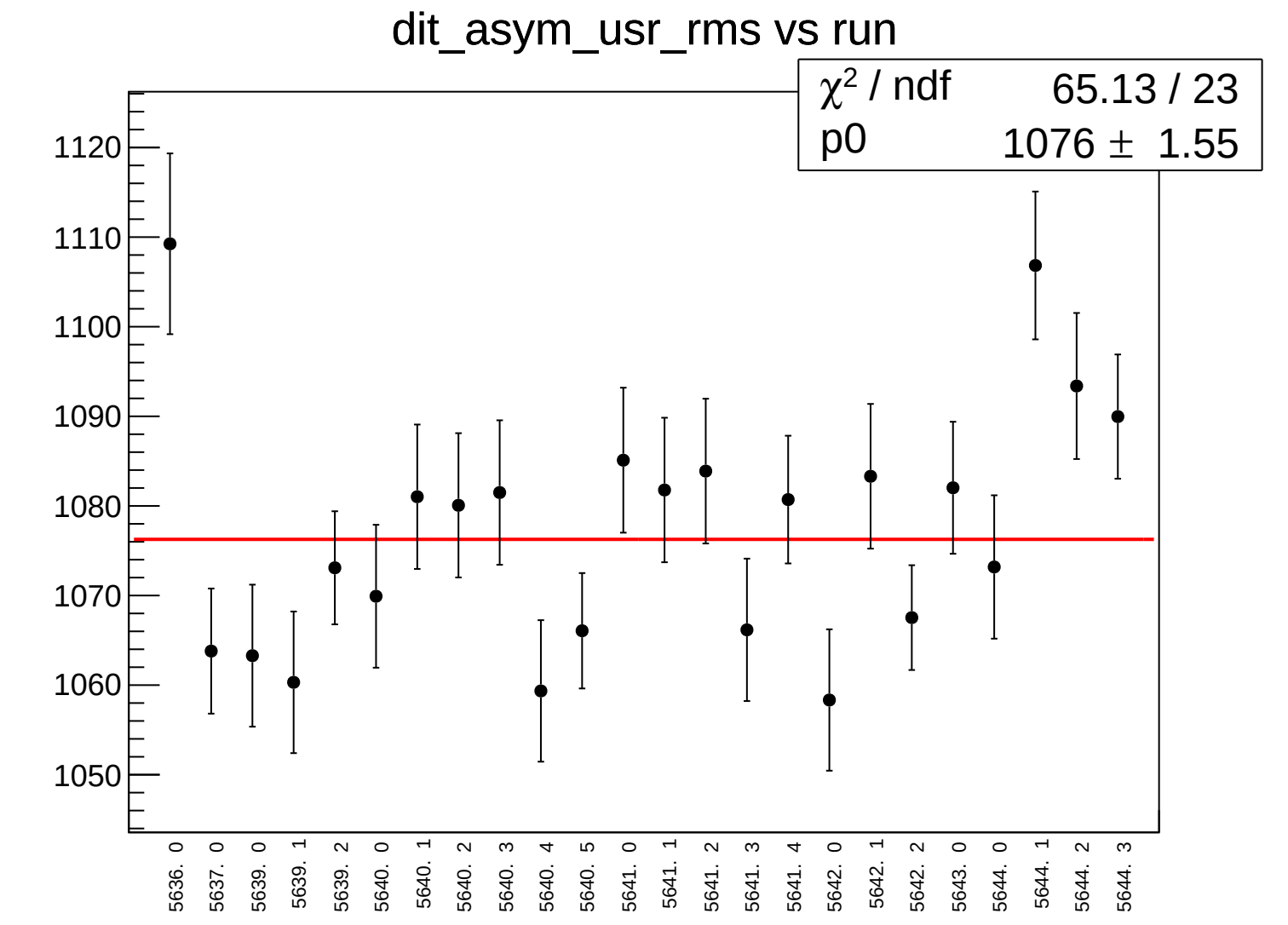

pull1D
Entries 24
Mean −0.051
Std Dev 1.169
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

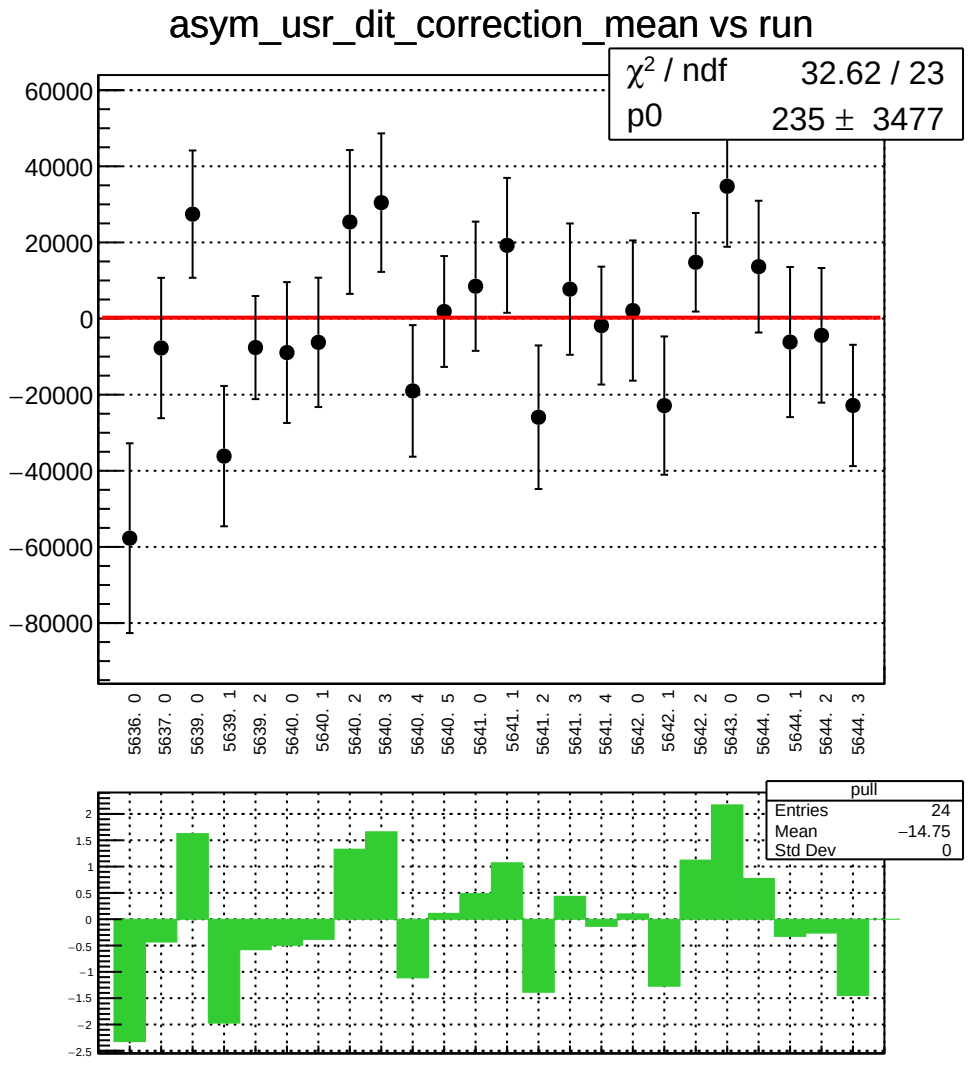

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 1534 / 23
p0 1681 ± 2.424
2000
1900
1800
1700
1600
1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

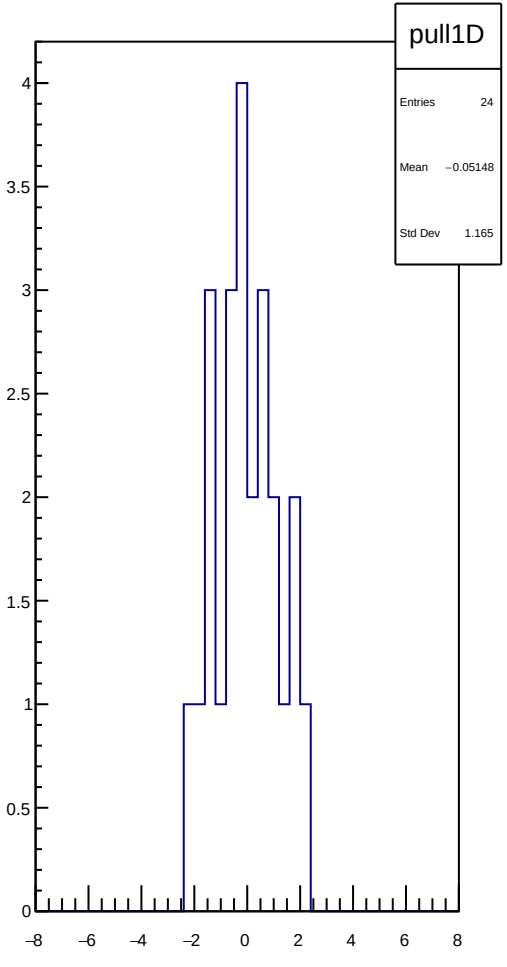

dit_asym_usr_mean vs run
χ² / ndf 16.43 / 23
p0 −34.36 ± 2192
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

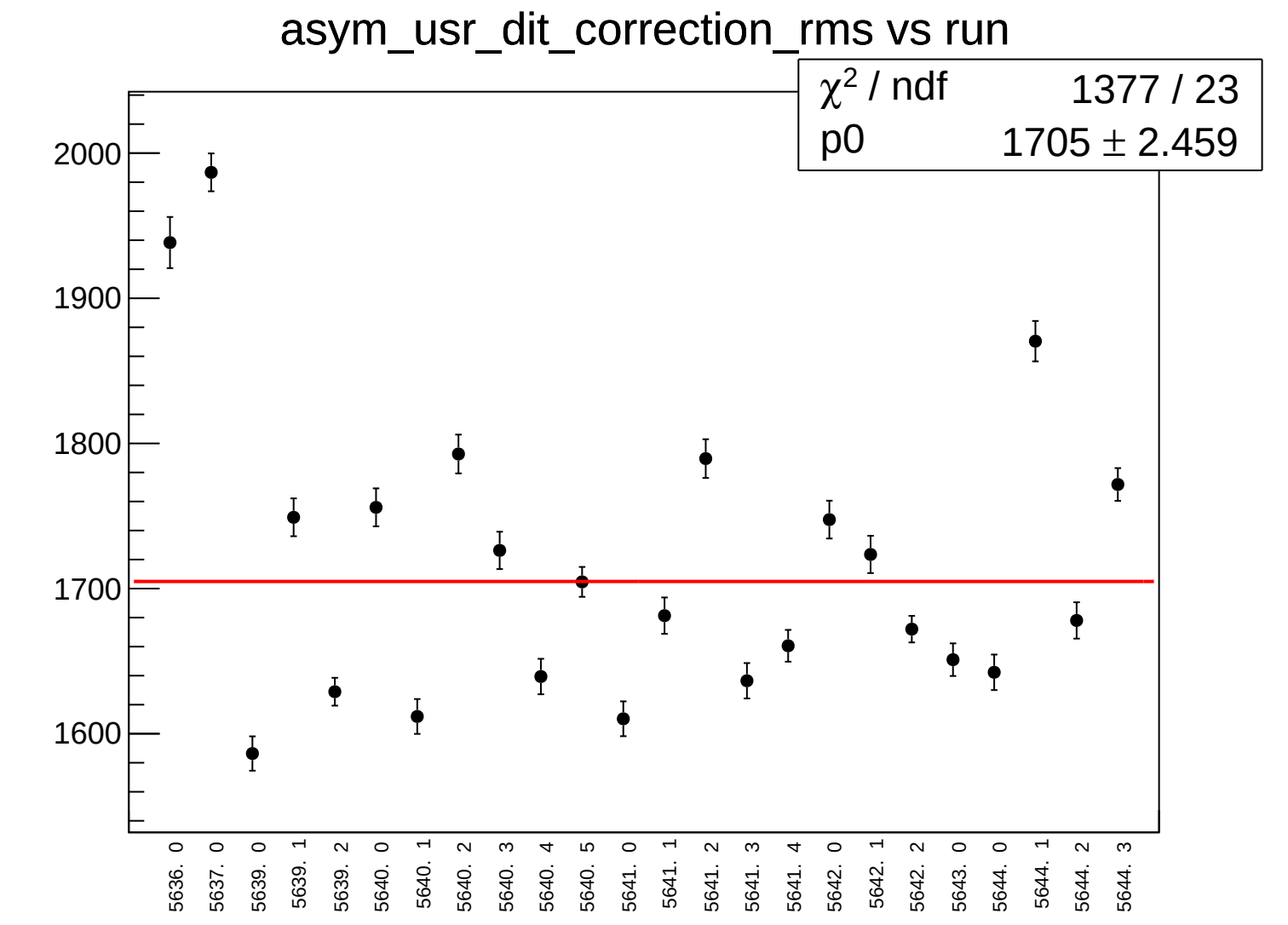

pull
Entries 24
Mean 4.129
Std Dev 13.38
1.5
1
0.5
0
−0.5
−1
−1.5

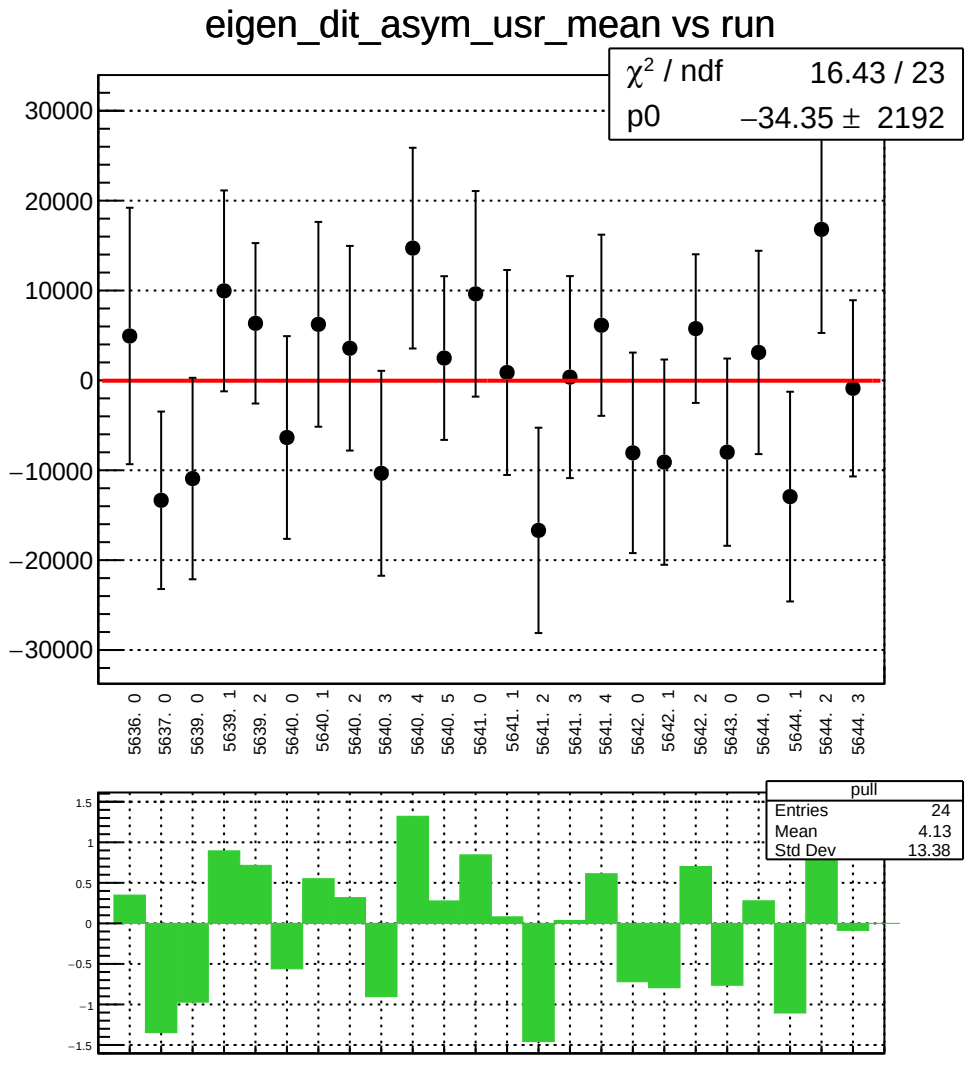

pull1D
Entries 24
Mean −0.01128
Std Dev 0.8274
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

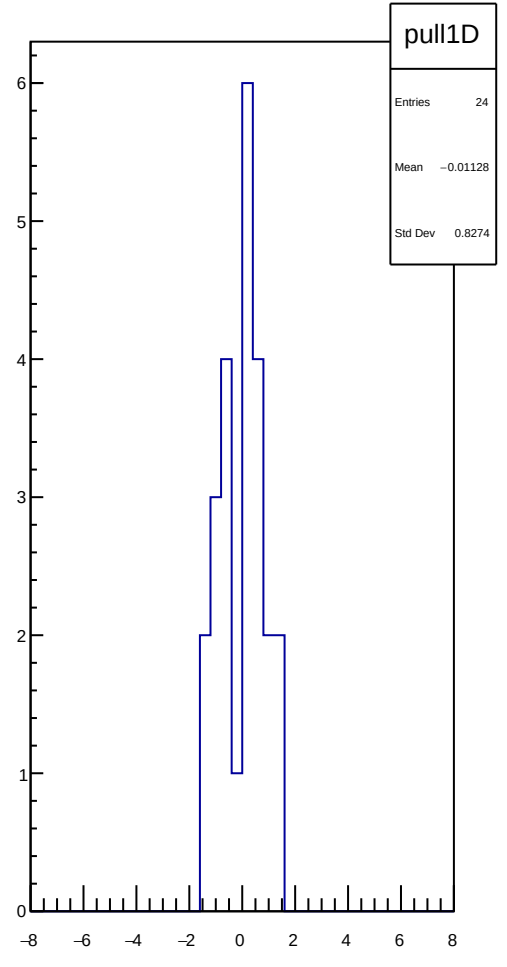

dit_asym_usr_rms vs run
χ² / ndf 65.13 / 23
p0 1076 ± 1.55
1120
1110
1100
1090
1080
1070
1060
1050
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

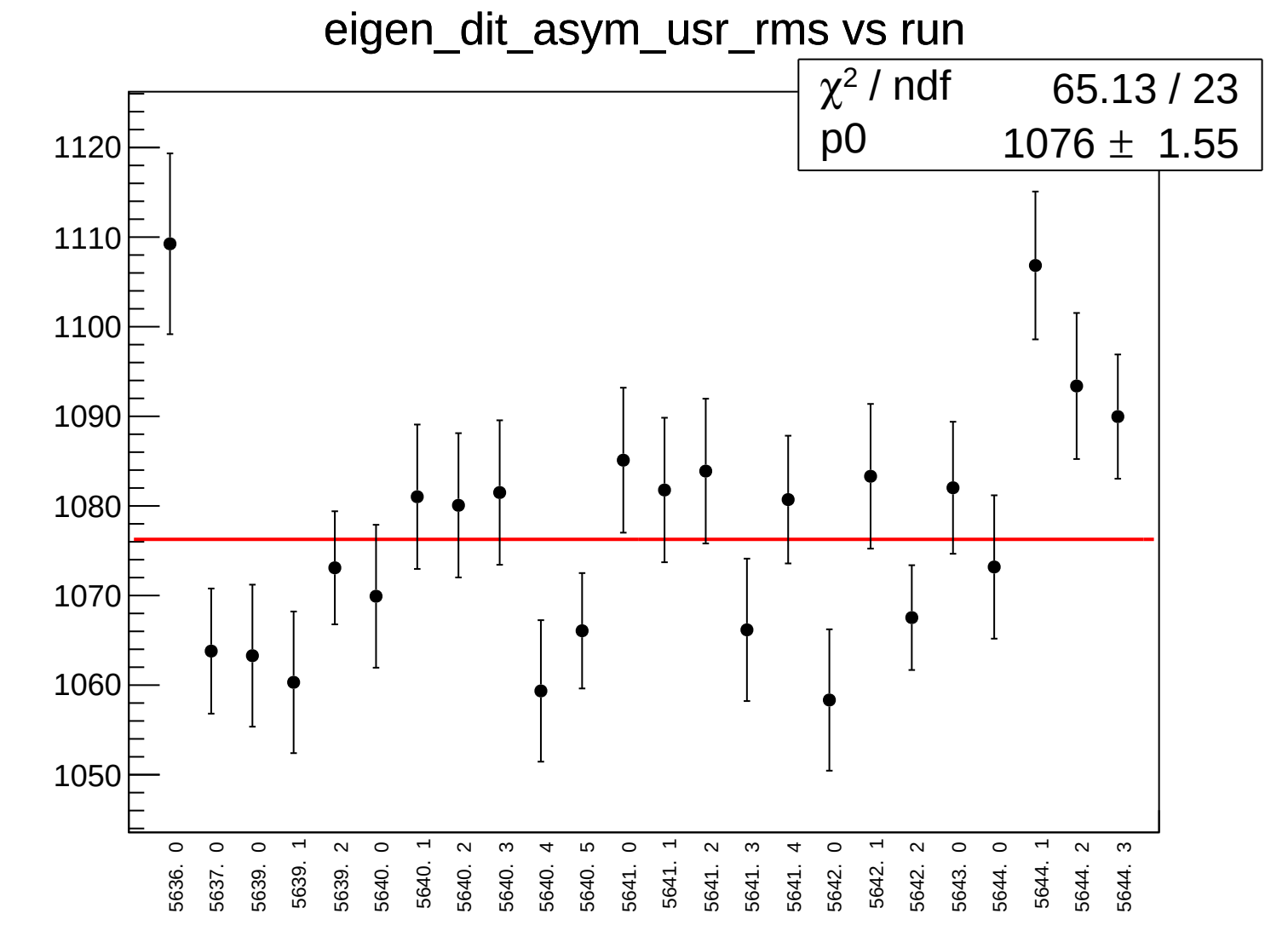

asym_usr_dit_correction_mean vs run
χ² / ndf 32.62 / 23
p0 235 ± 3477
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −14.75
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

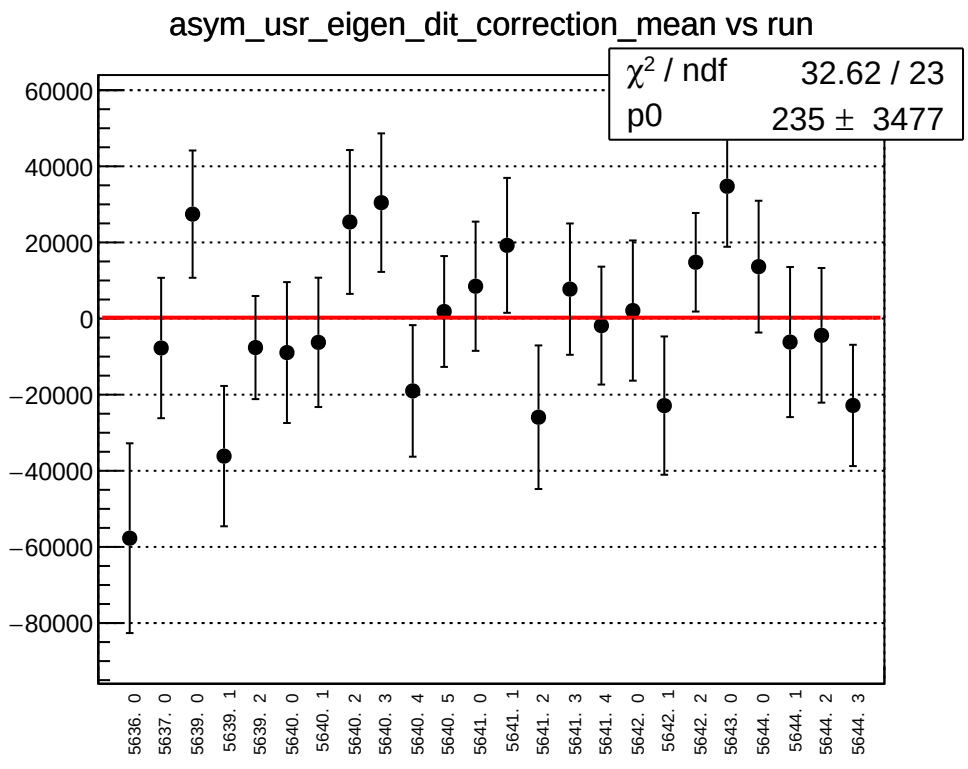

pull1D
Entries 24
Mean −0.05148
Std Dev 1.165
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

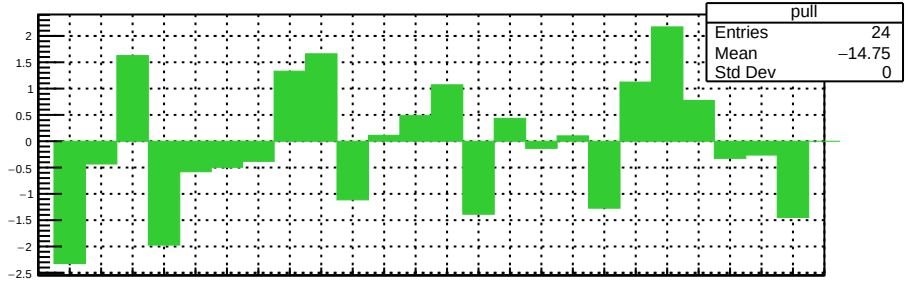

asym_usr_dit_correction_rms vs run
χ² / ndf 1377 / 23
p0 1705 ± 2.459
2000
1900
1800
1700
1600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

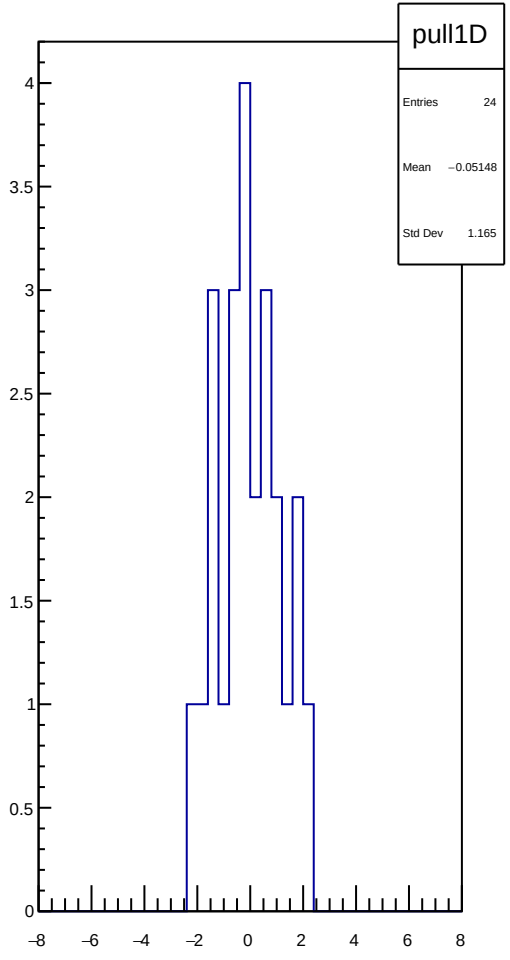

eigen_dit_asym_usr_mean vs run
χ² / ndf 16.43 / 23
p0 −34.35 ± 2192
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 4.13
Std Dev 13.38
1.5
1
0.5
0
−0.5
−1
−1.5

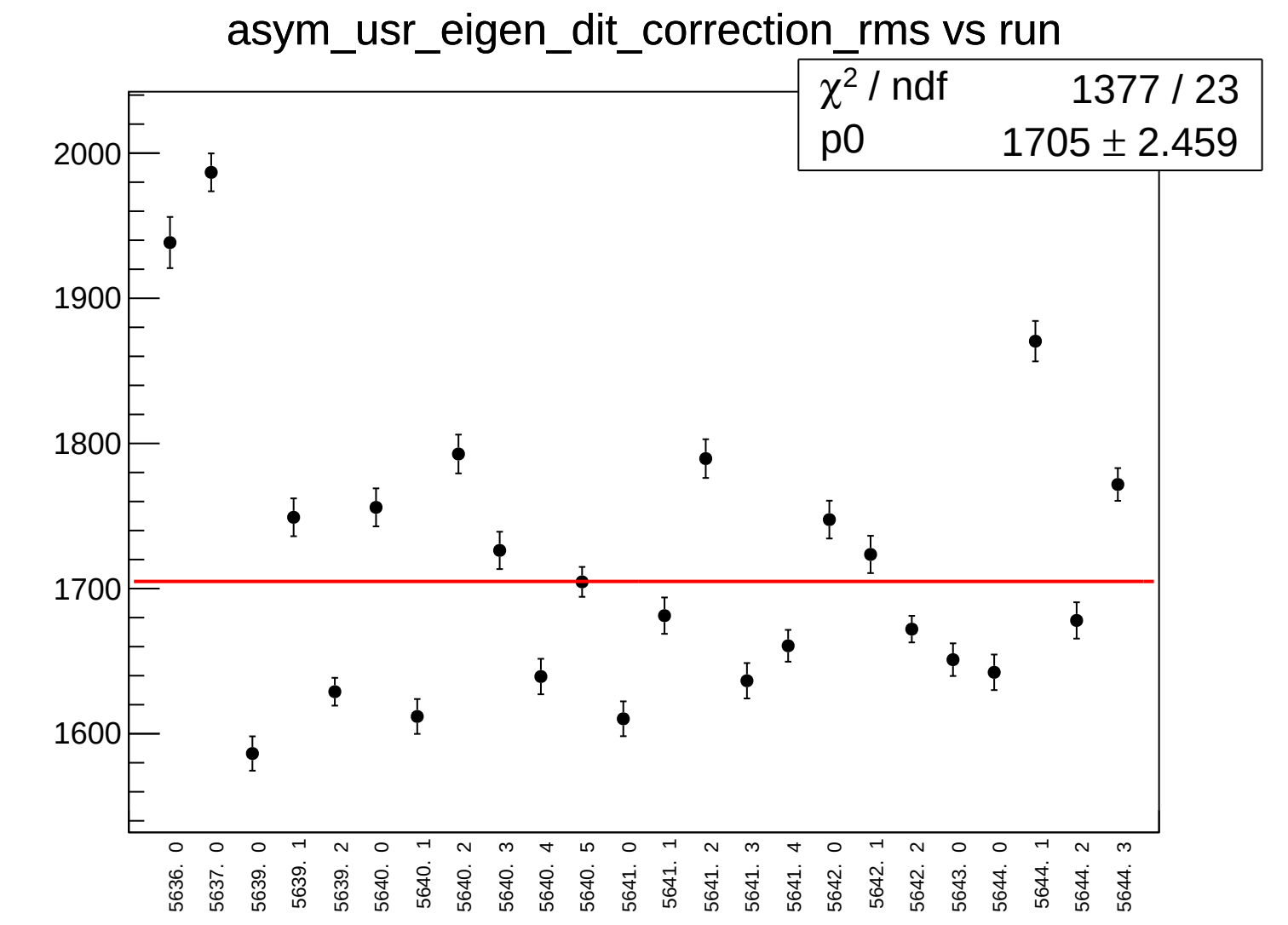

pull1D
Entries 24
Mean −0.01128
Std Dev 0.8274
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

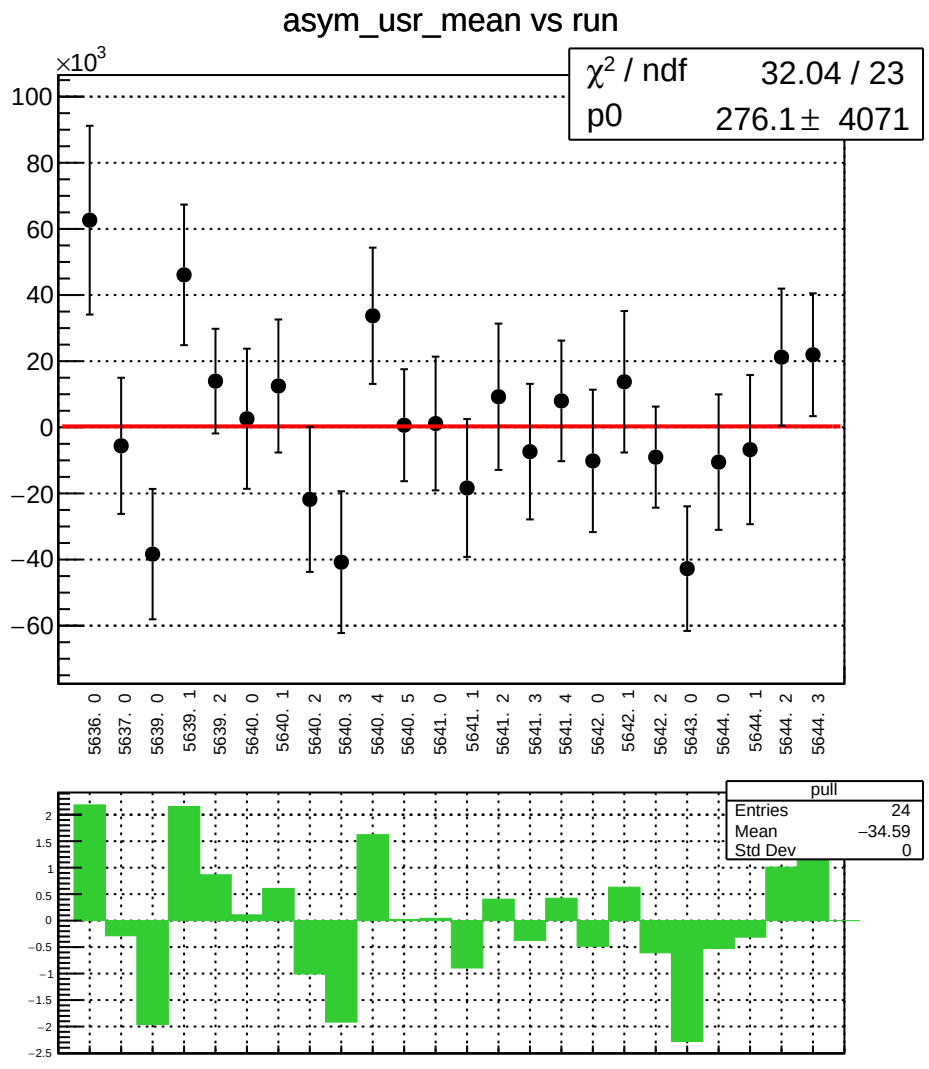

eigen_dit_asym_usr_rms vs run
χ² / ndf 65.13 / 23
p0 1076 ± 1.55
1120
1110
1100
1090
1080
1070
1060
1050
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

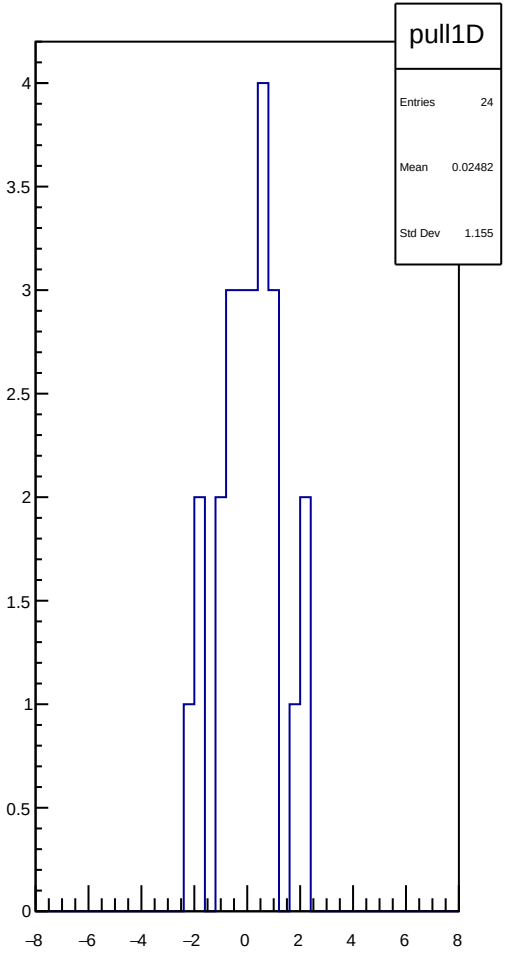

asym_usr_eigen_dit_correction_mean vs run
χ² / ndf 32.62 / 23
p0 235 ± 3477
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

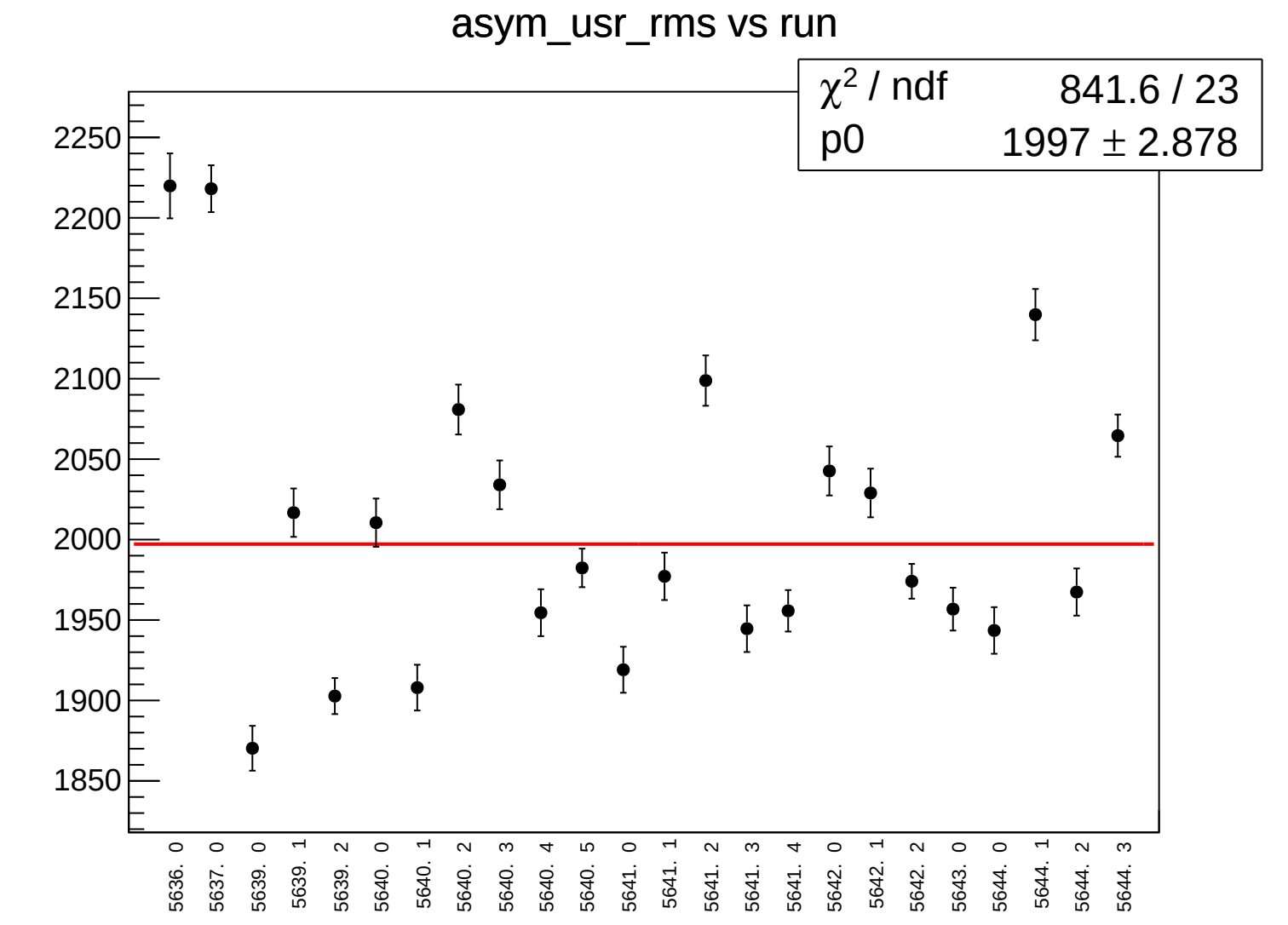

pull
Entries 24
Mean −14.75
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

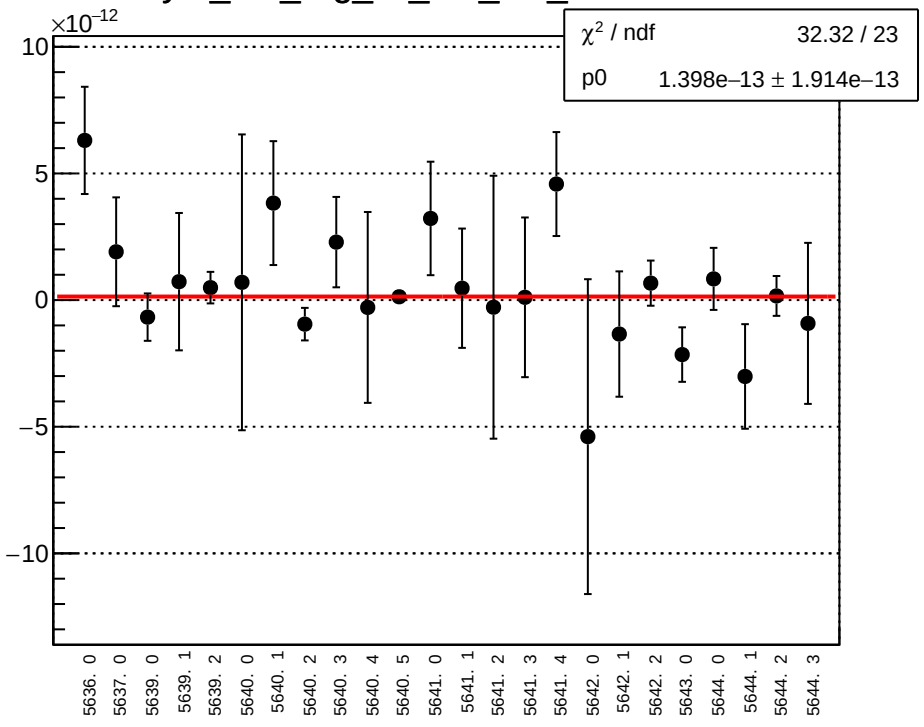

pull1D
Entries 24
Mean −0.05148
Std Dev 1.165
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

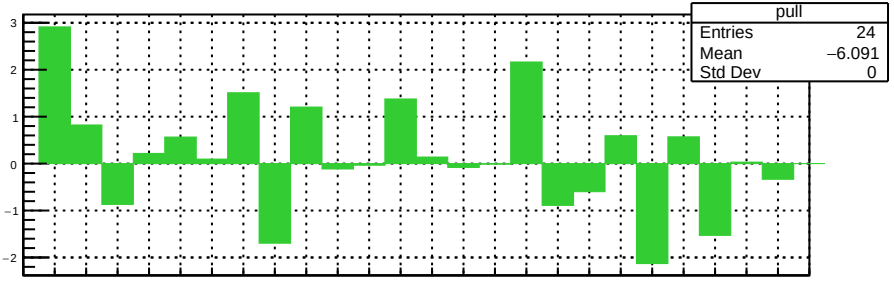

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 1377 / 23
p0 1705 ± 2.459
2000
1900
1800
1700
1600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

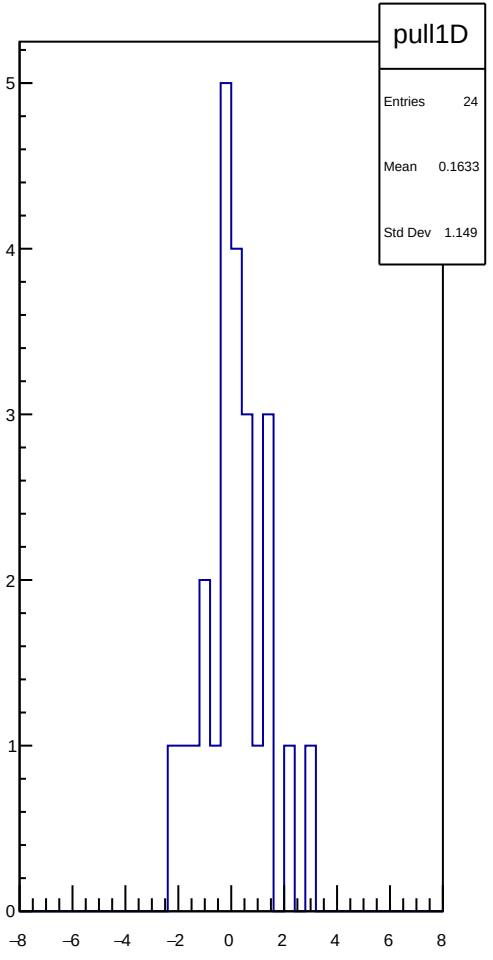

asym_usr_mean vs run
×10^3
χ² / ndf 32.04 / 23
p0 276.1 ± 4071
100
80
60
40
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −34.59
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

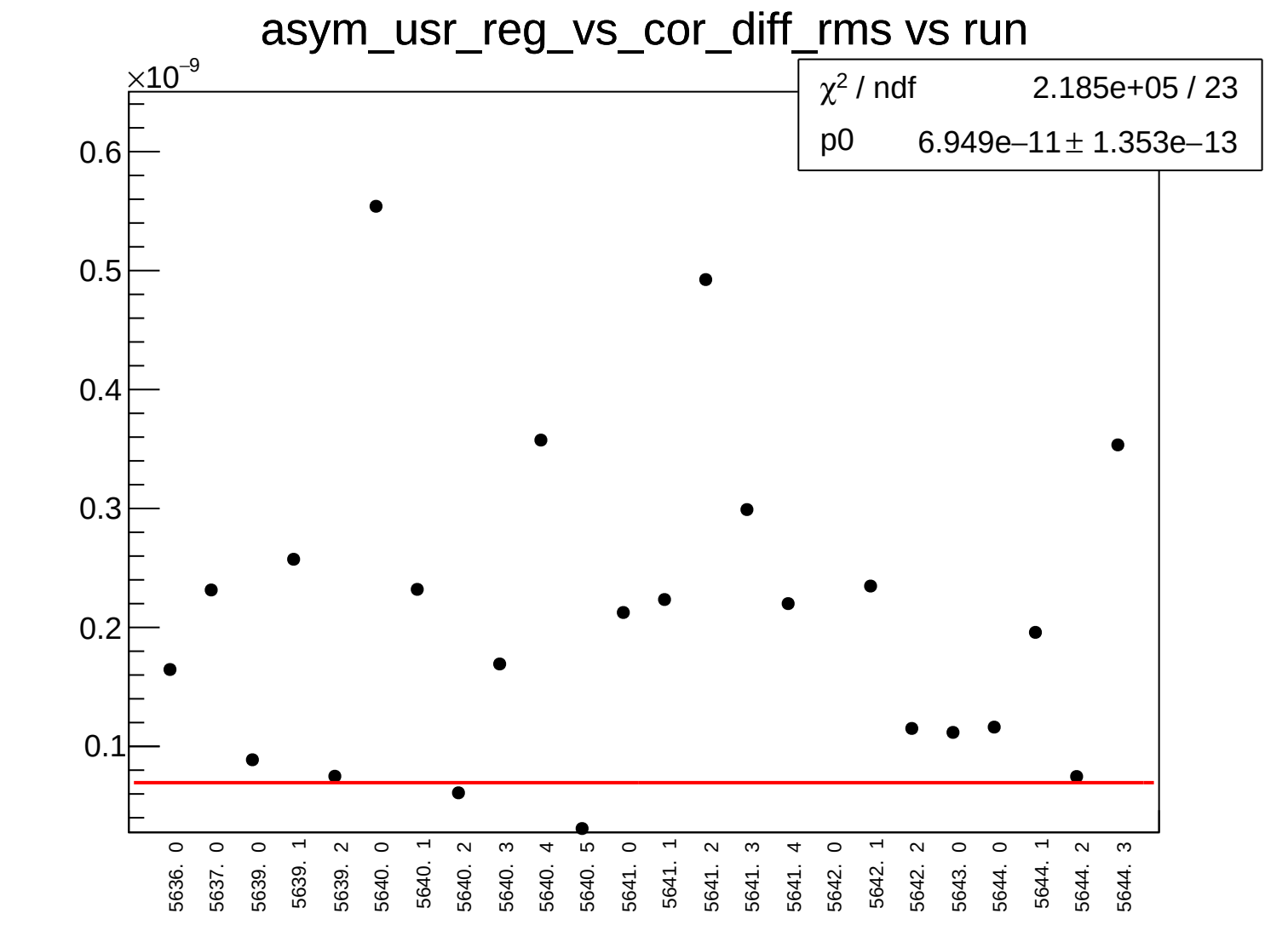

pull1D
Entries 24
Mean 0.02482
Std Dev 1.155
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

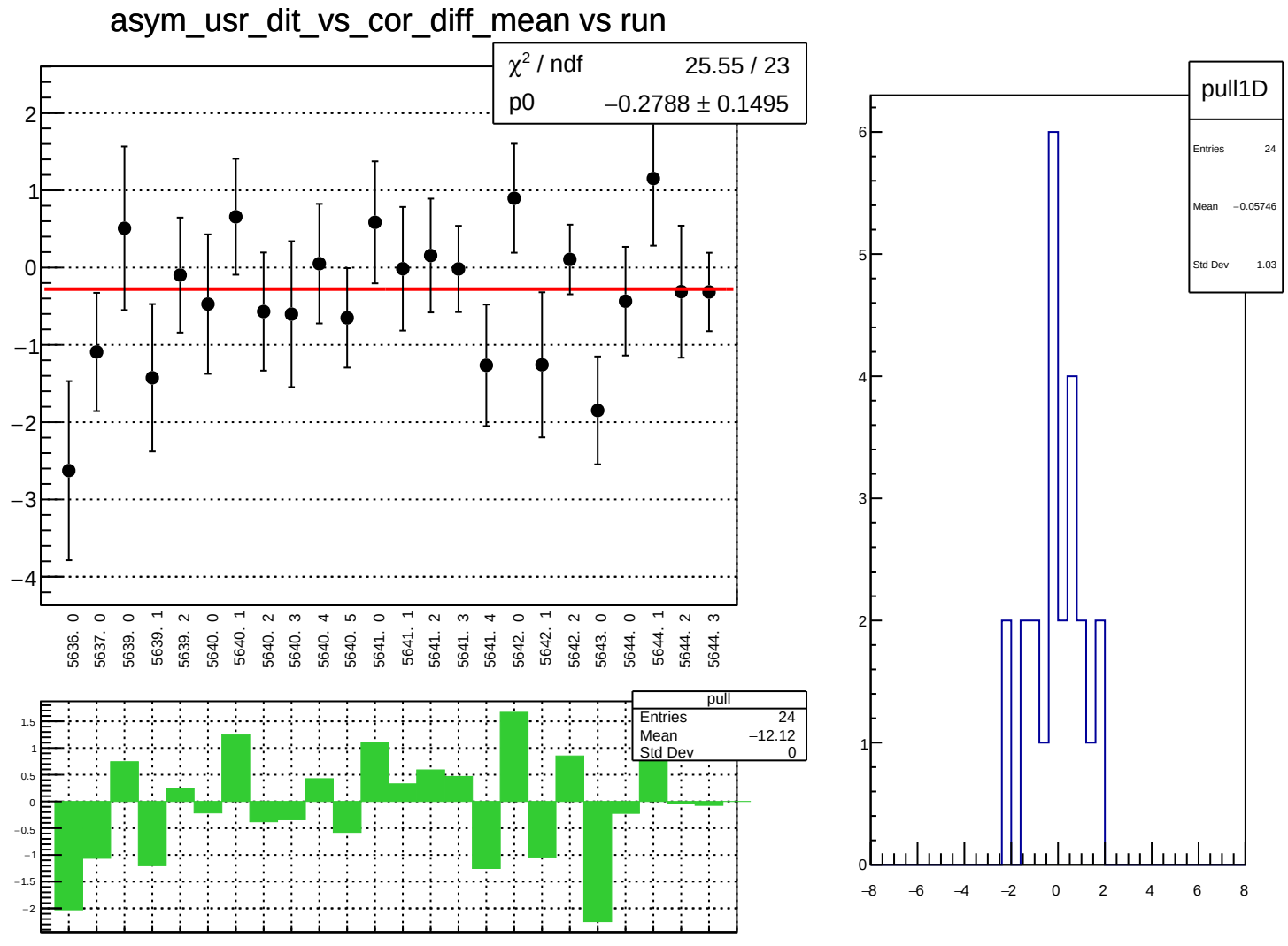

asym_usr_rms vs run
χ² / ndf 841.6 / 23
p0 1997 ± 2.878
2250
2200
2150
2100
2050
2000
1950
1900
1850
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

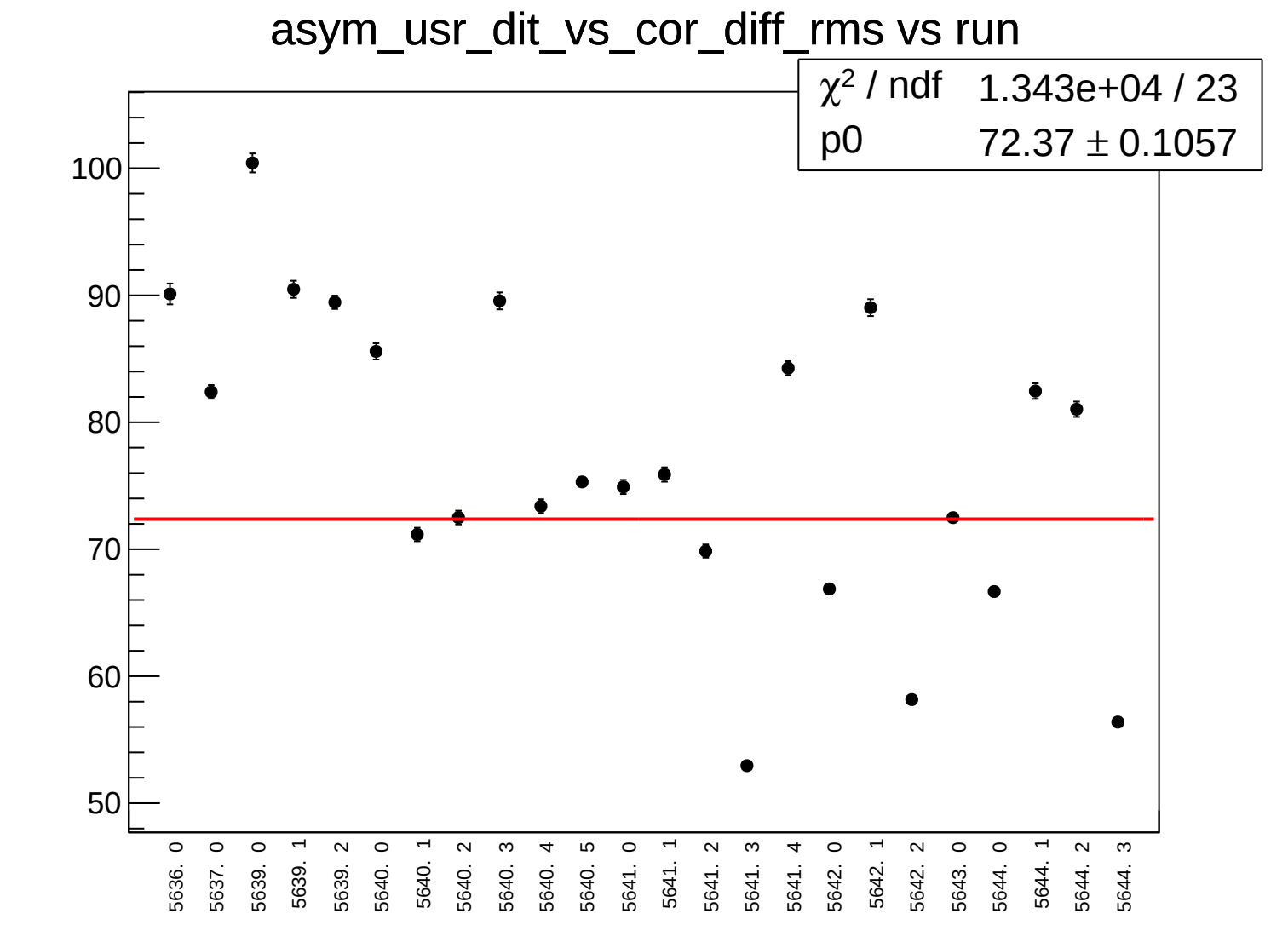

asym_usr_reg_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 32.32 / 23
p0 1.398e−13 ± 1.914e−13
10
5
0
−5
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

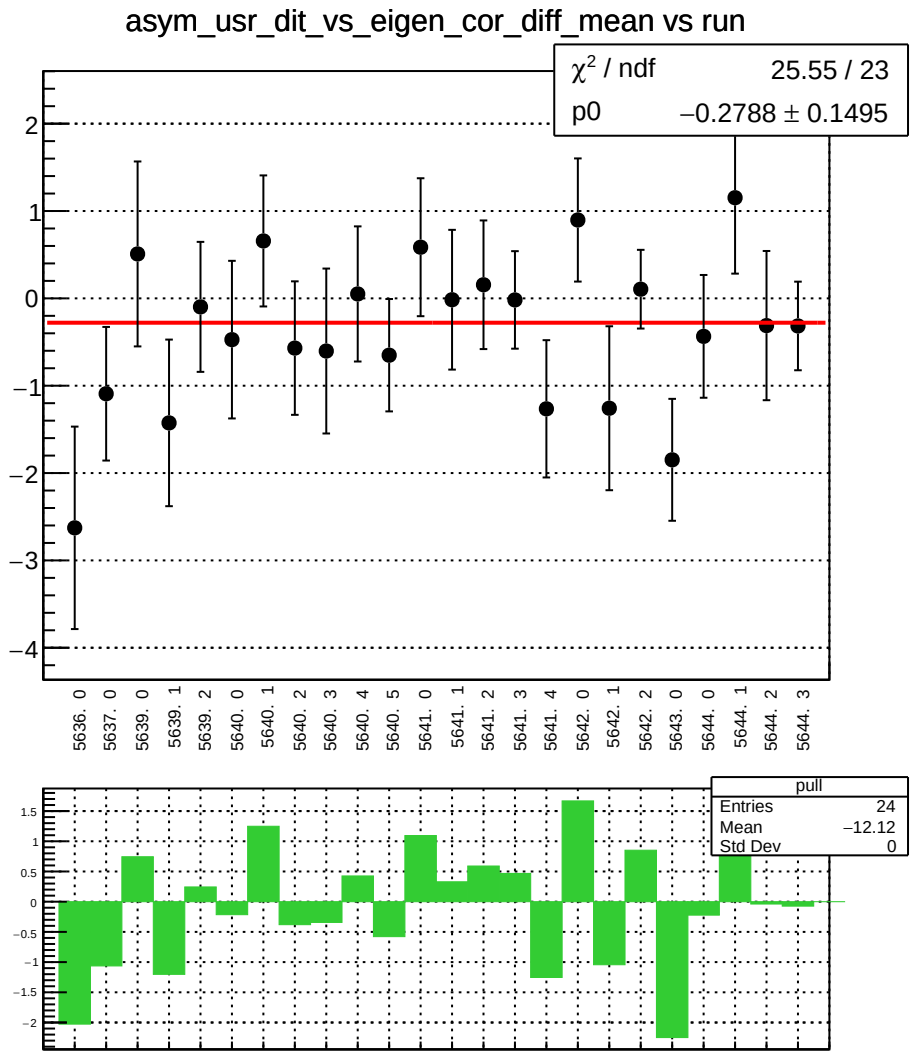

pull
Entries 24
Mean −6.091
Std Dev 0
3
2
1
0
−1
−2

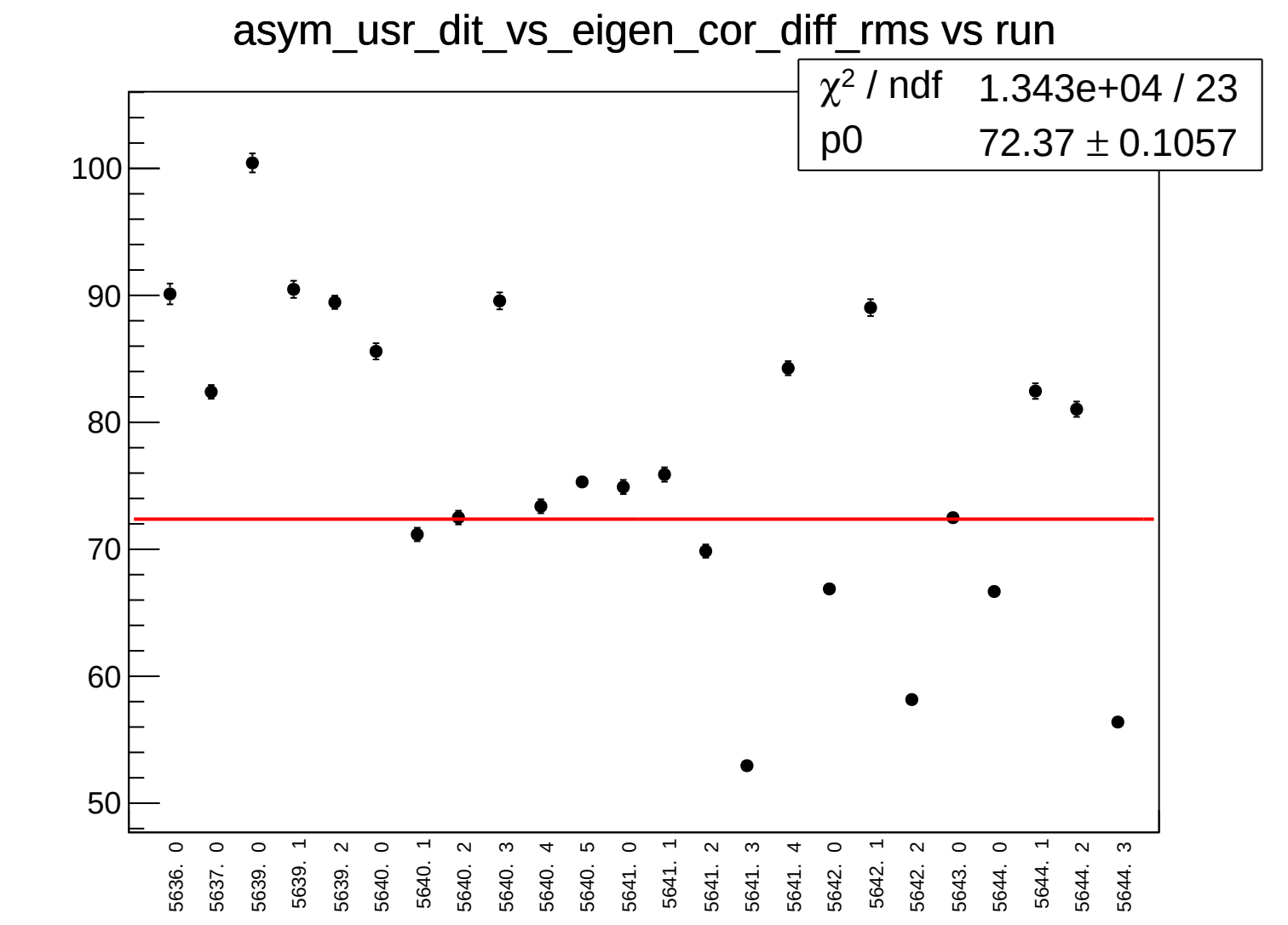

pull1D
Entries 24
Mean 0.1633
Std Dev 1.149
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.185e+05 / 23
p0 6.949e−11 ± 1.353e−13
0.6
0.5
0.4
0.3
0.2
0.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 25.55 / 23
p0 −0.2788 ± 0.1495
2
1
0
−1
−2
−3
−4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −12.12
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.05746
Std Dev 1.03
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 1.343e+04 / 23
p0 72.37 ± 0.1057
100
90
80
70
60
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.55 / 23
p0 −0.2788 ± 0.1495
2
1
0
−1
−2
−3
−4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −12.12
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.05746
Std Dev 1.03
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.343e+04 / 23
p0 72.37 ± 0.1057
100
90
80
70
60
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5642. 0
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5643. 0
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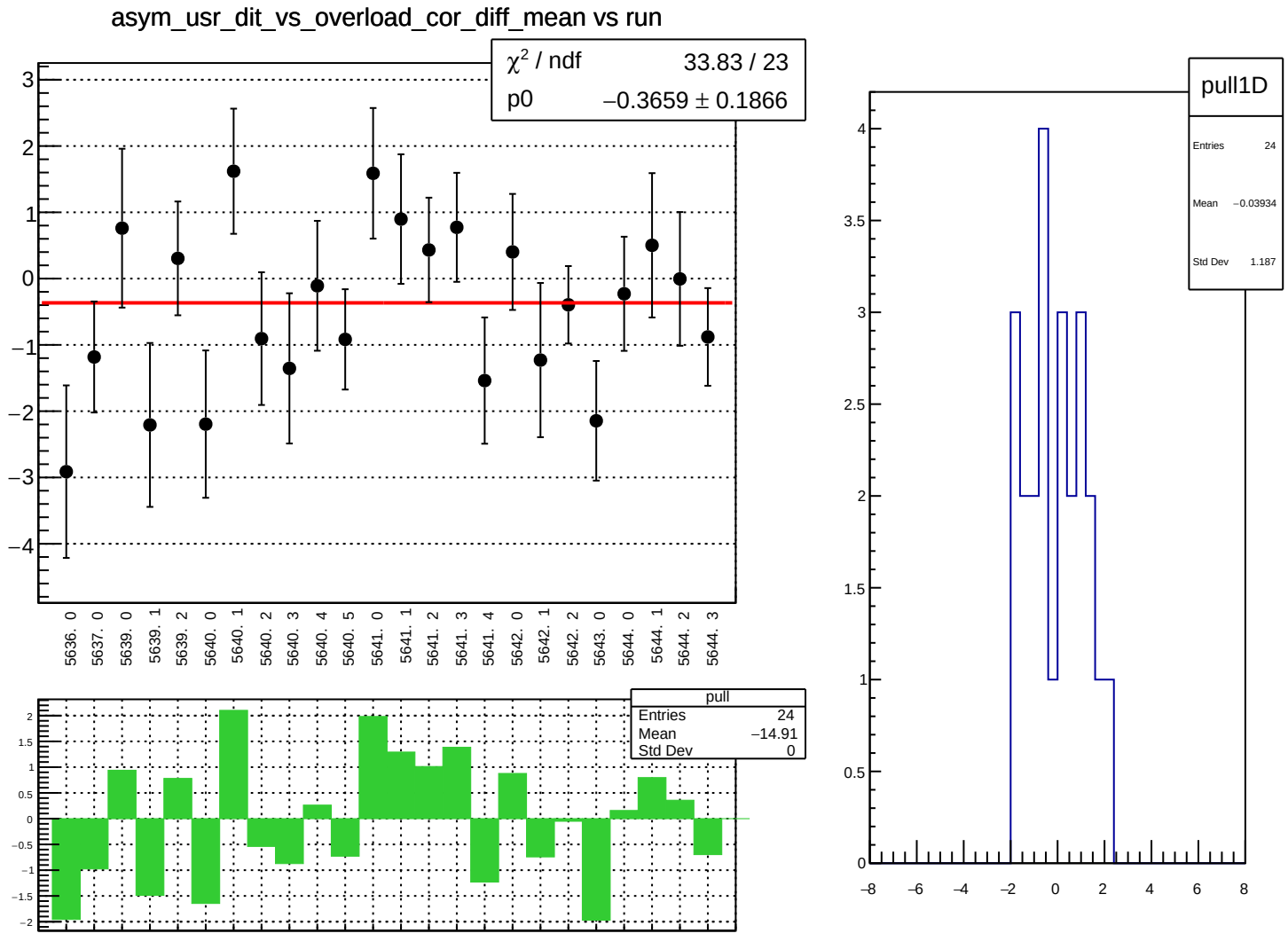
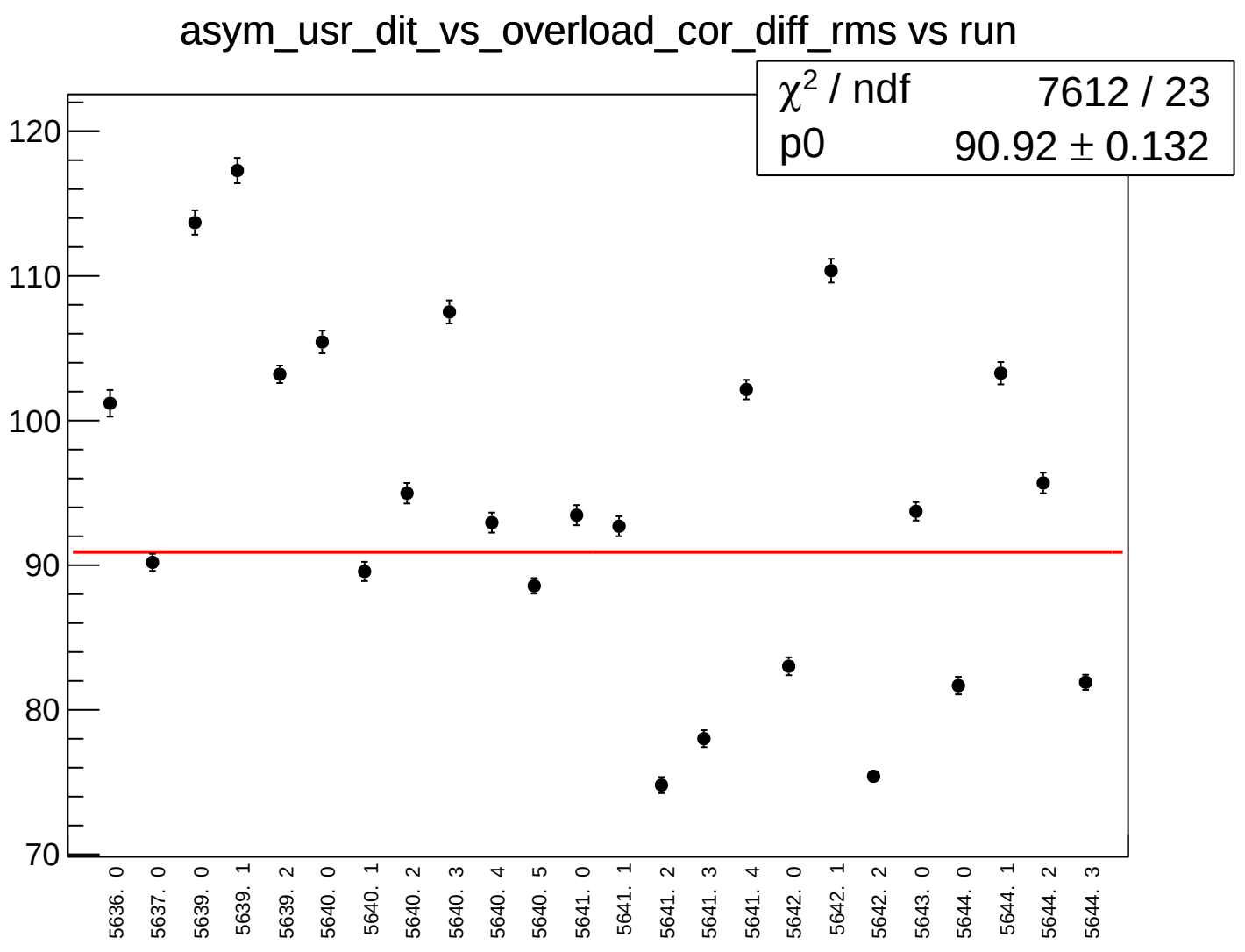
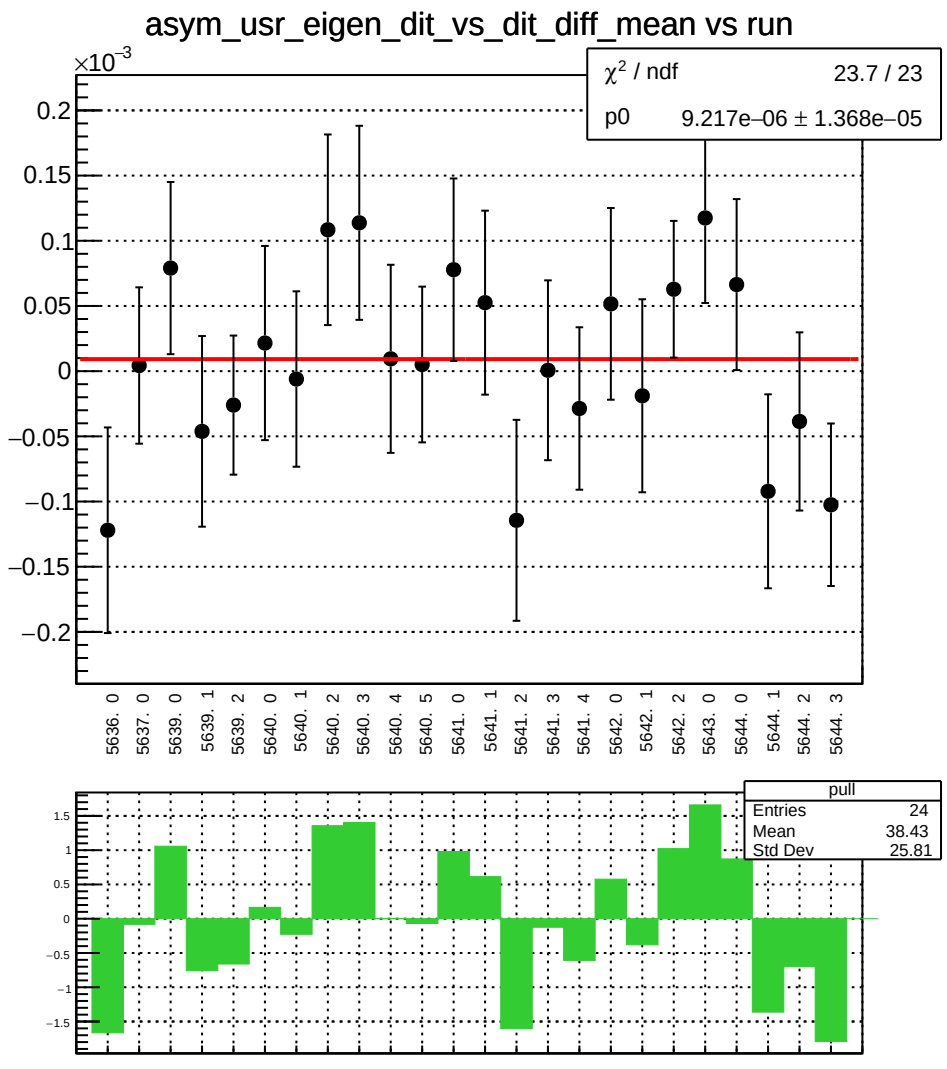
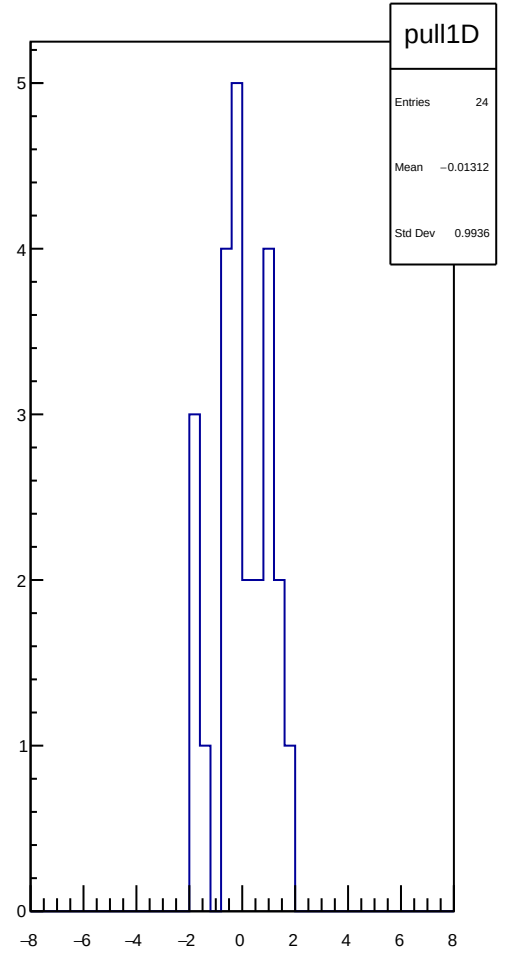
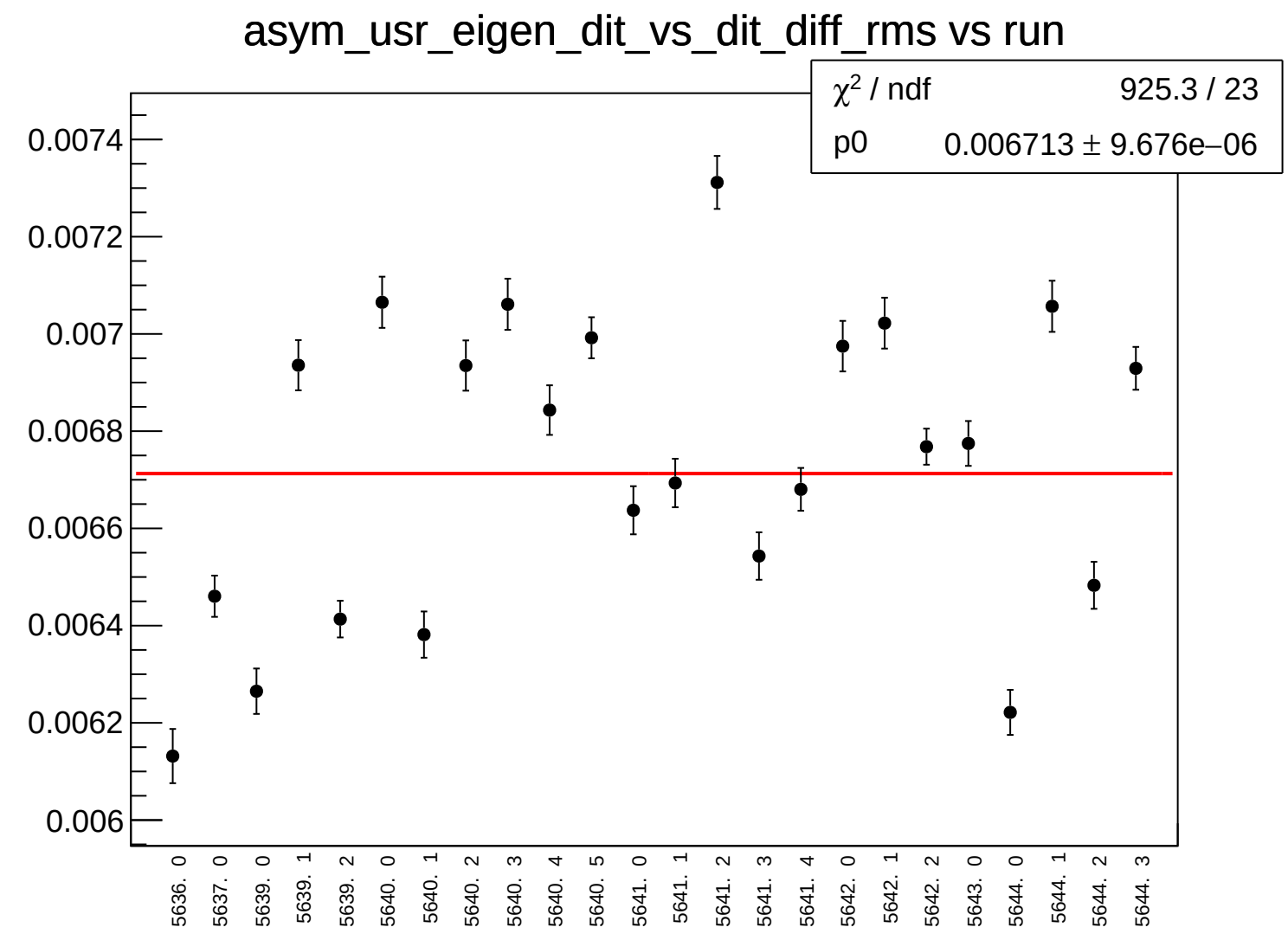
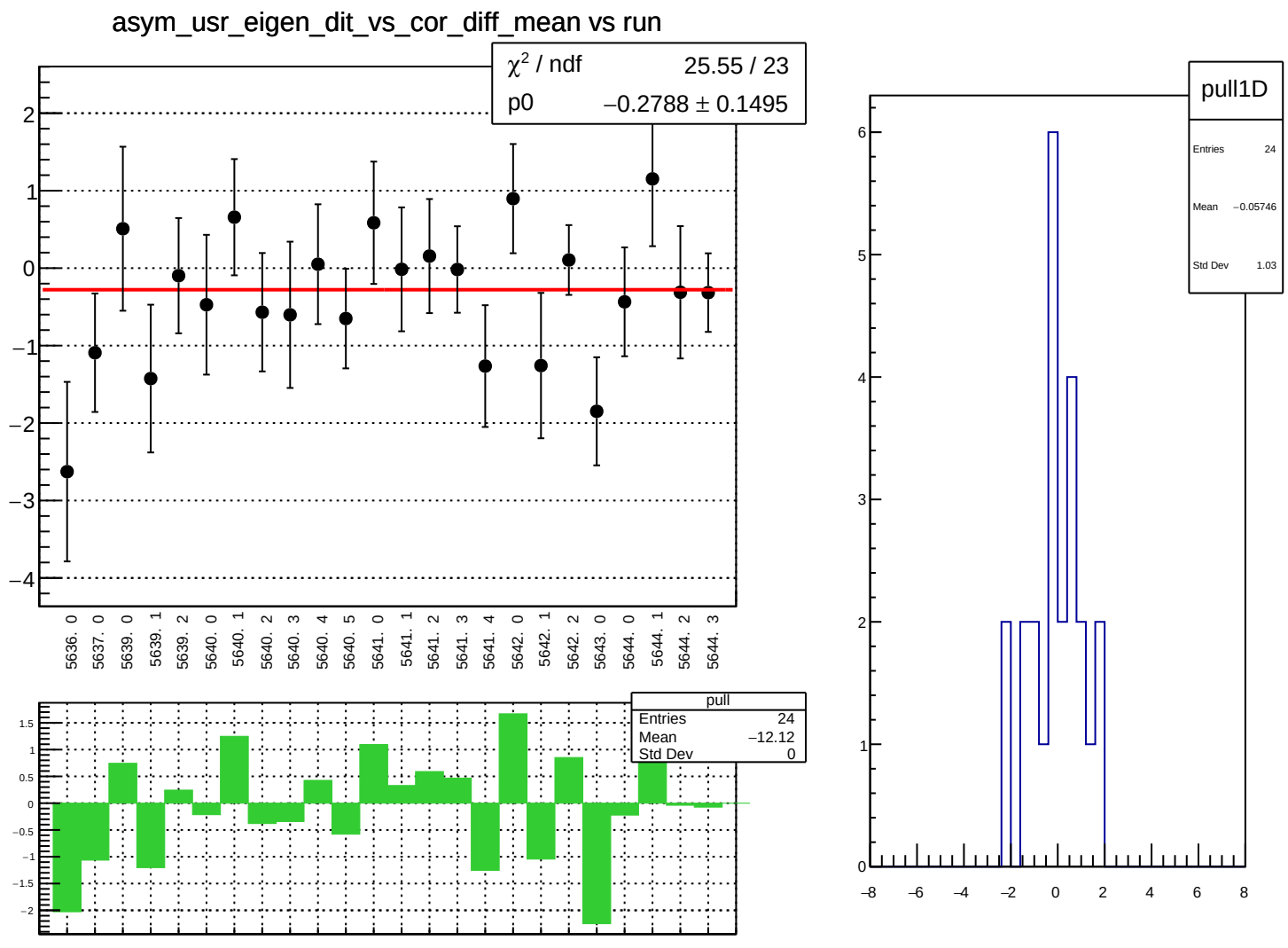

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 33.83 / 23
p0 −0.3659 ± 0.1866
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −14.91
Std Dev 0
pull1D
Entries 24
Mean −0.03934
Std Dev 1.187

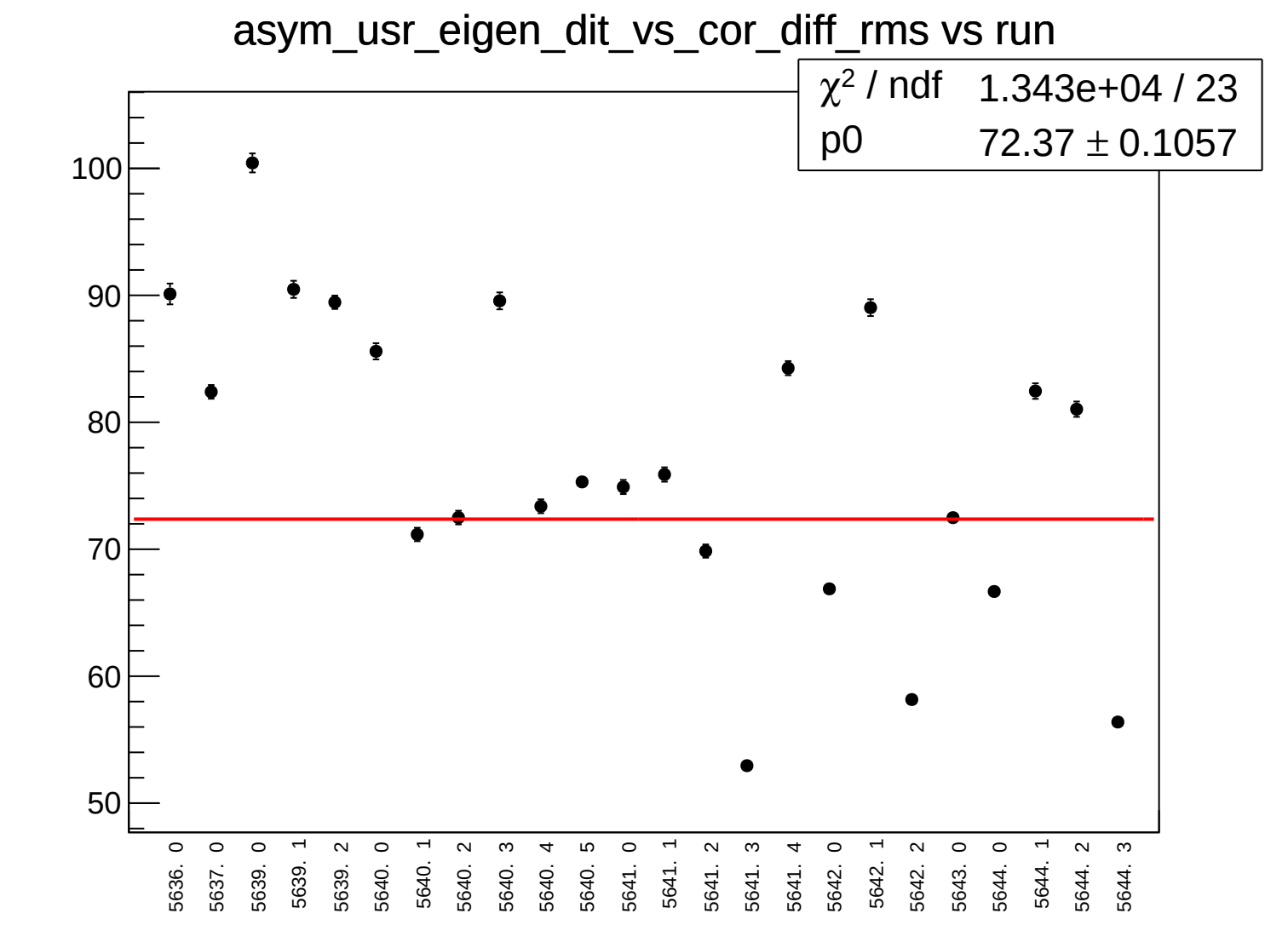

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7612 / 23
p0 90.92 ± 0.132
120
110
100
90
80
70
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

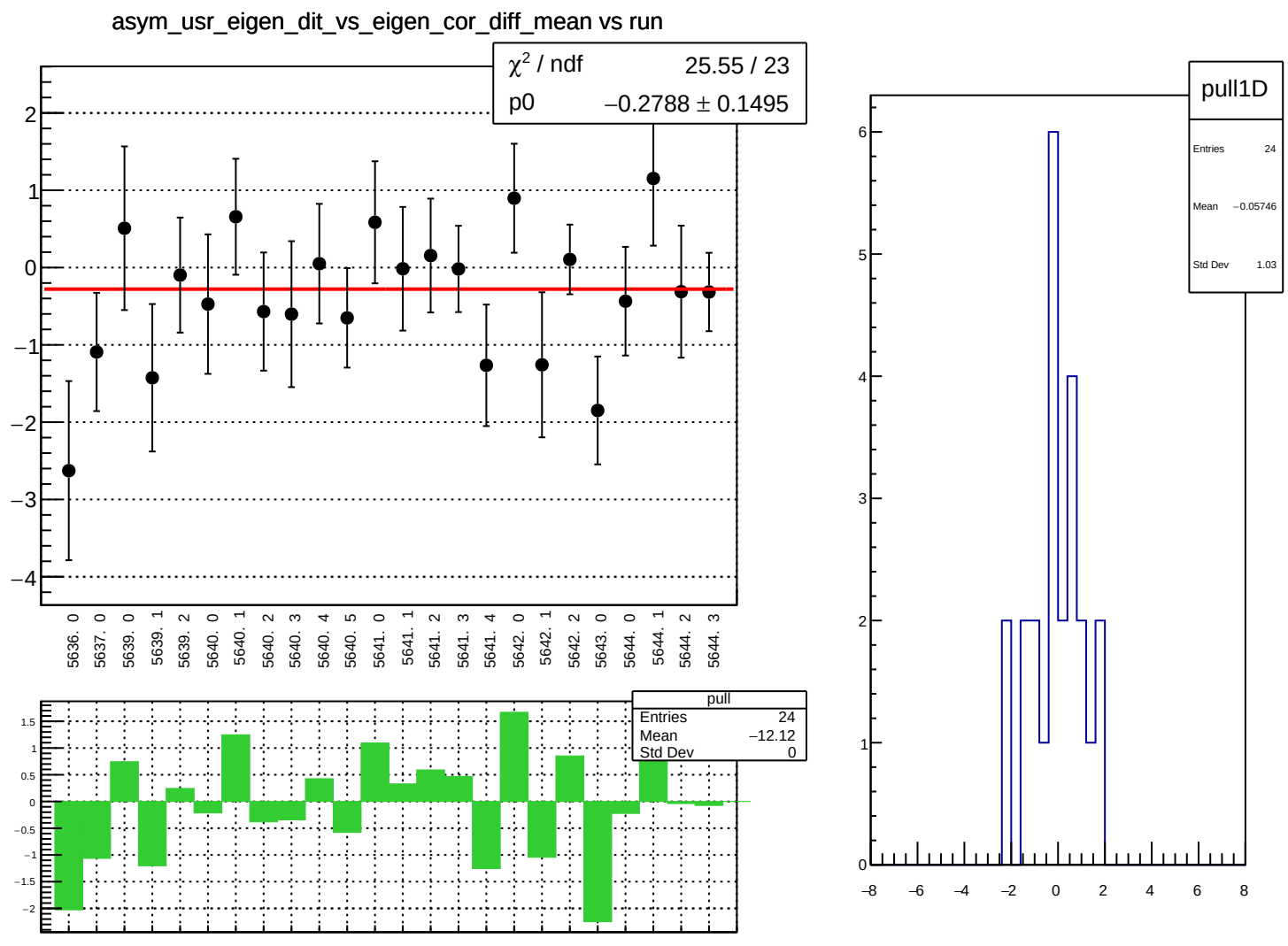

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 23.7 / 23
p0 9.217e−06 ± 1.368e−05
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 38.43
Std Dev 25.81
1.5
1
0.5
0
−0.5
−1
−1.5

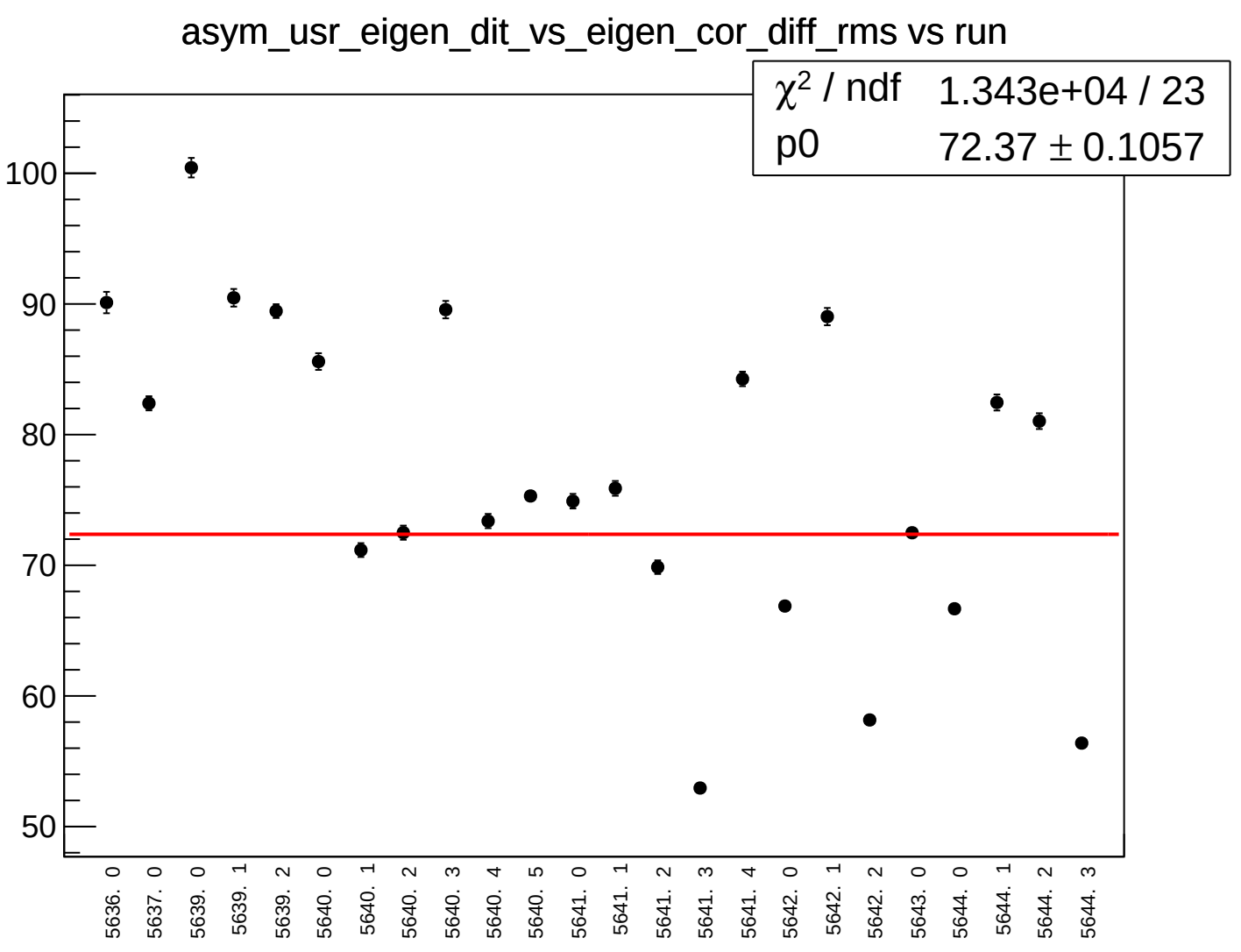

pull1D
Entries 24
Mean −0.01312
Std Dev 0.9936
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 925.3 / 23
p0 0.006713 ± 9.676e−06
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

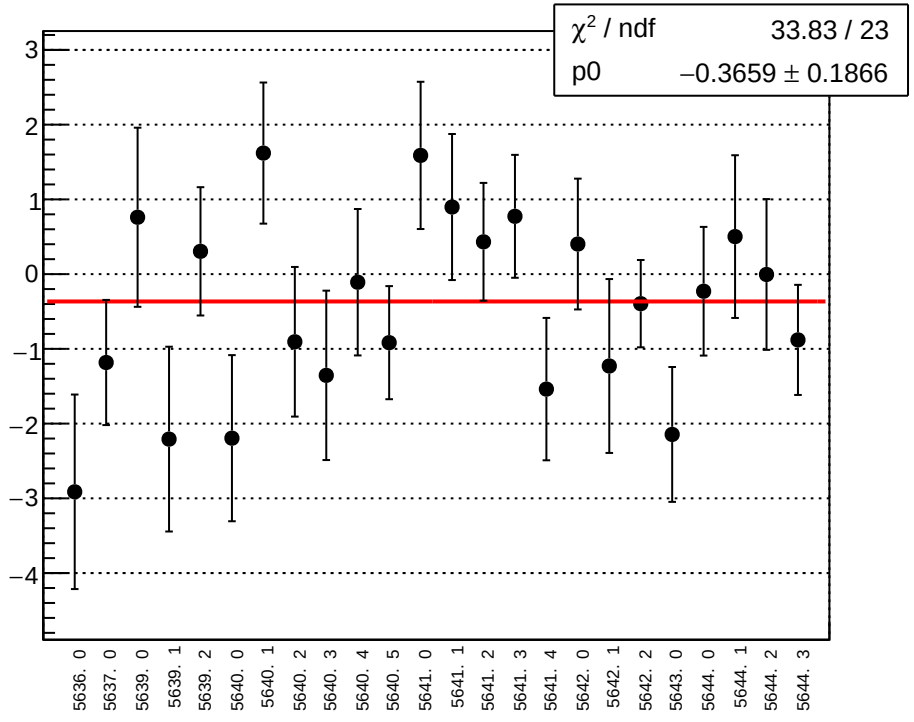

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 25.55 / 23
p0 −0.2788 ± 0.1495
2
1
0
−1
−2
−3
−4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −12.12
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.05746
Std Dev 1.03
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

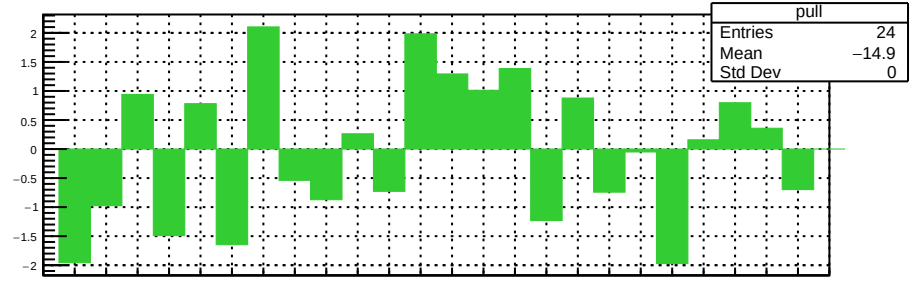

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.343e+04 / 23
p0 72.37 ± 0.1057
100
90
80
70
60
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

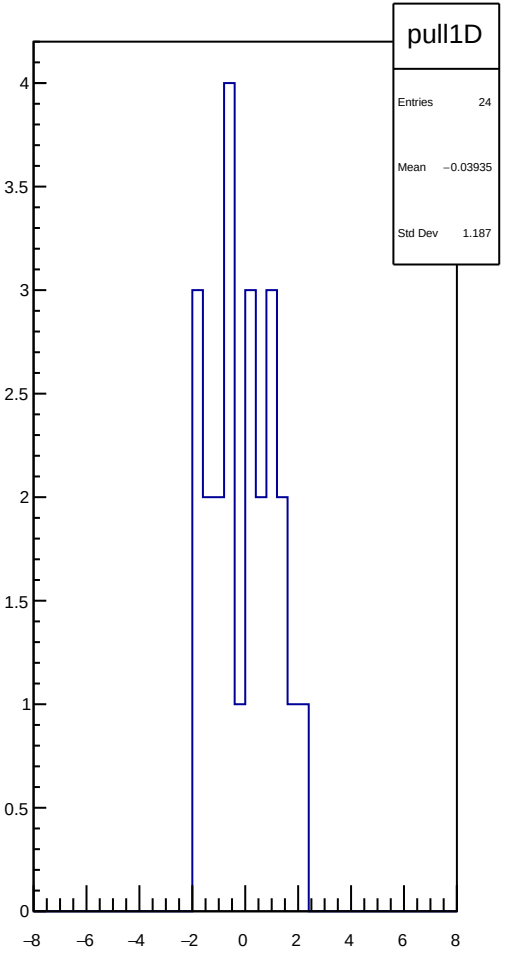

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.55 / 23
p0 −0.2788 ± 0.1495
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −12.12
Std Dev 0
pull1D
Entries 24
Mean −0.05746
Std Dev 1.03

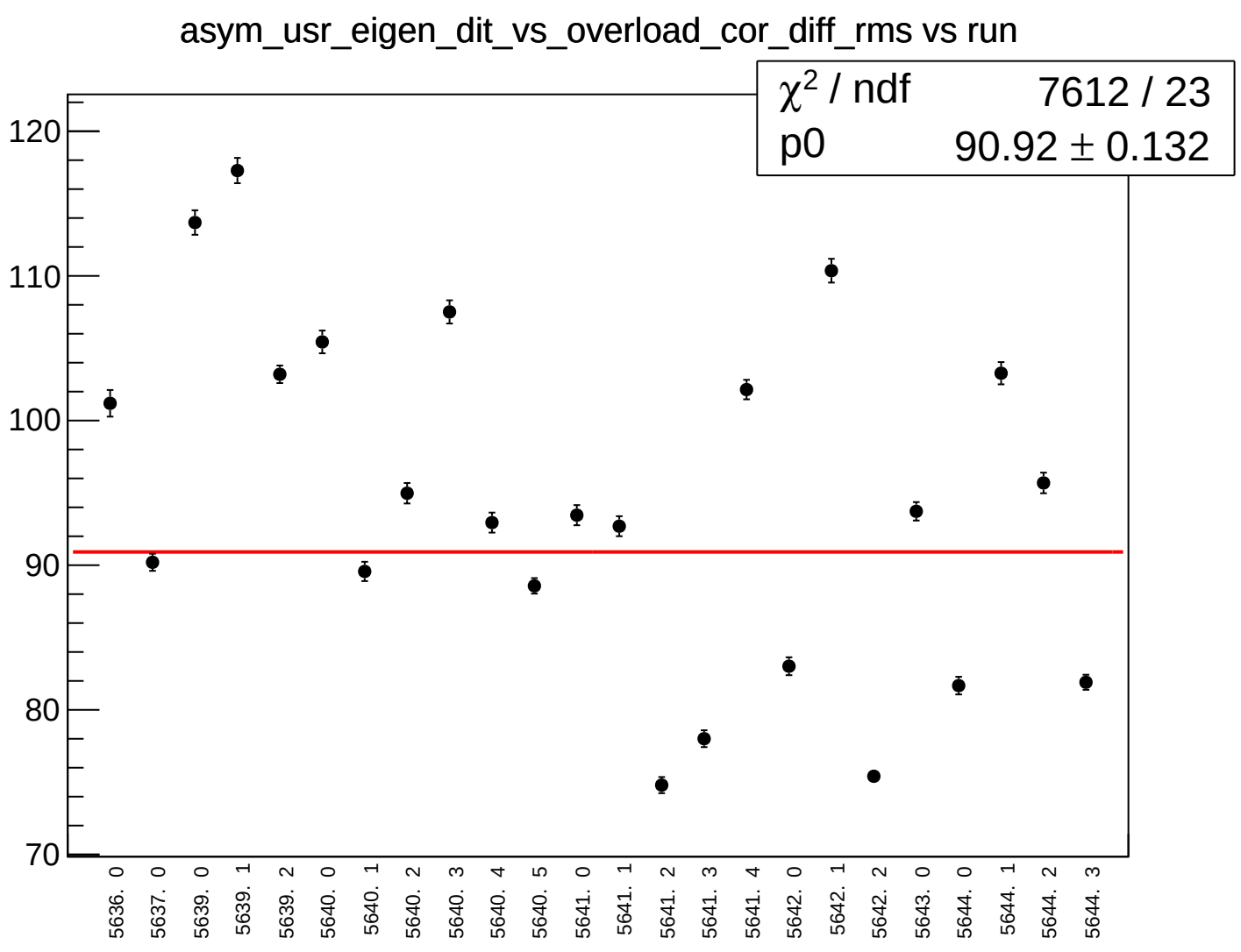

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.343e+04 / 23
p0 72.37 ± 0.1057
100
90
80
70
60
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run








asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7612 / 23
p0 90.92 ± 0.132
120
110
100
90
80
70
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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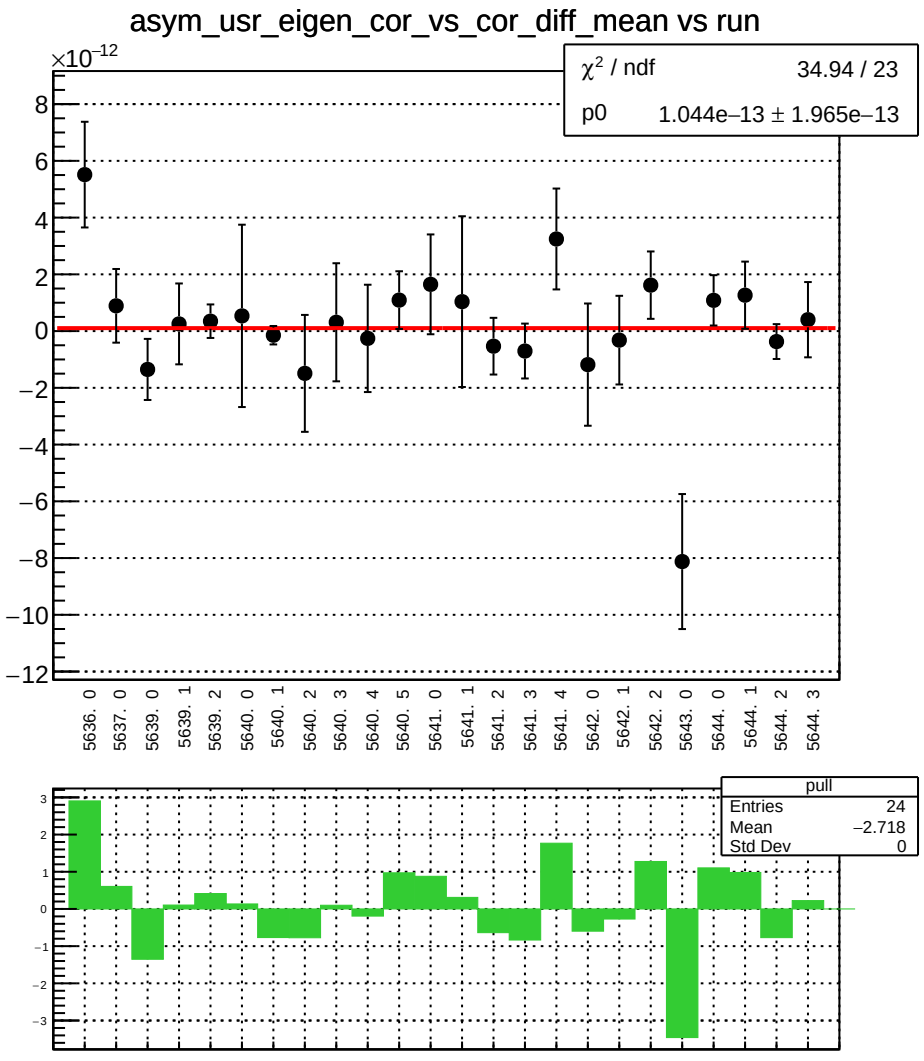
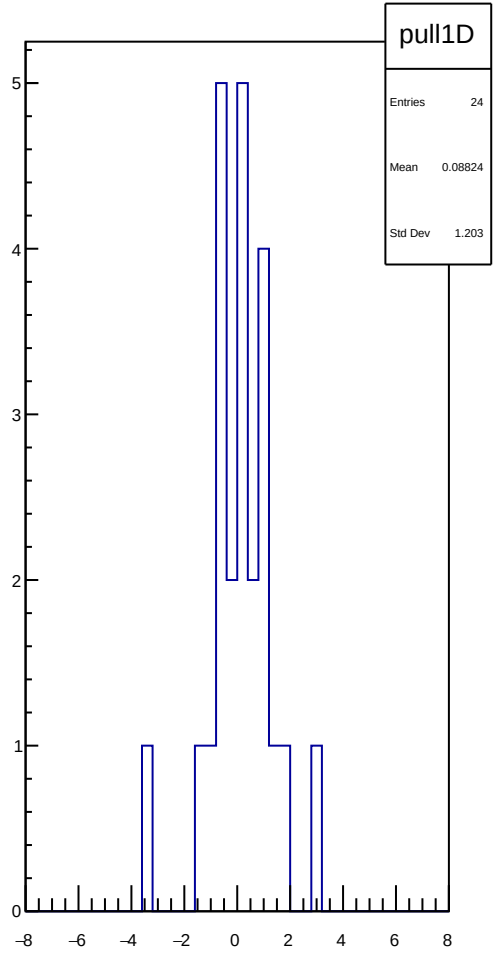
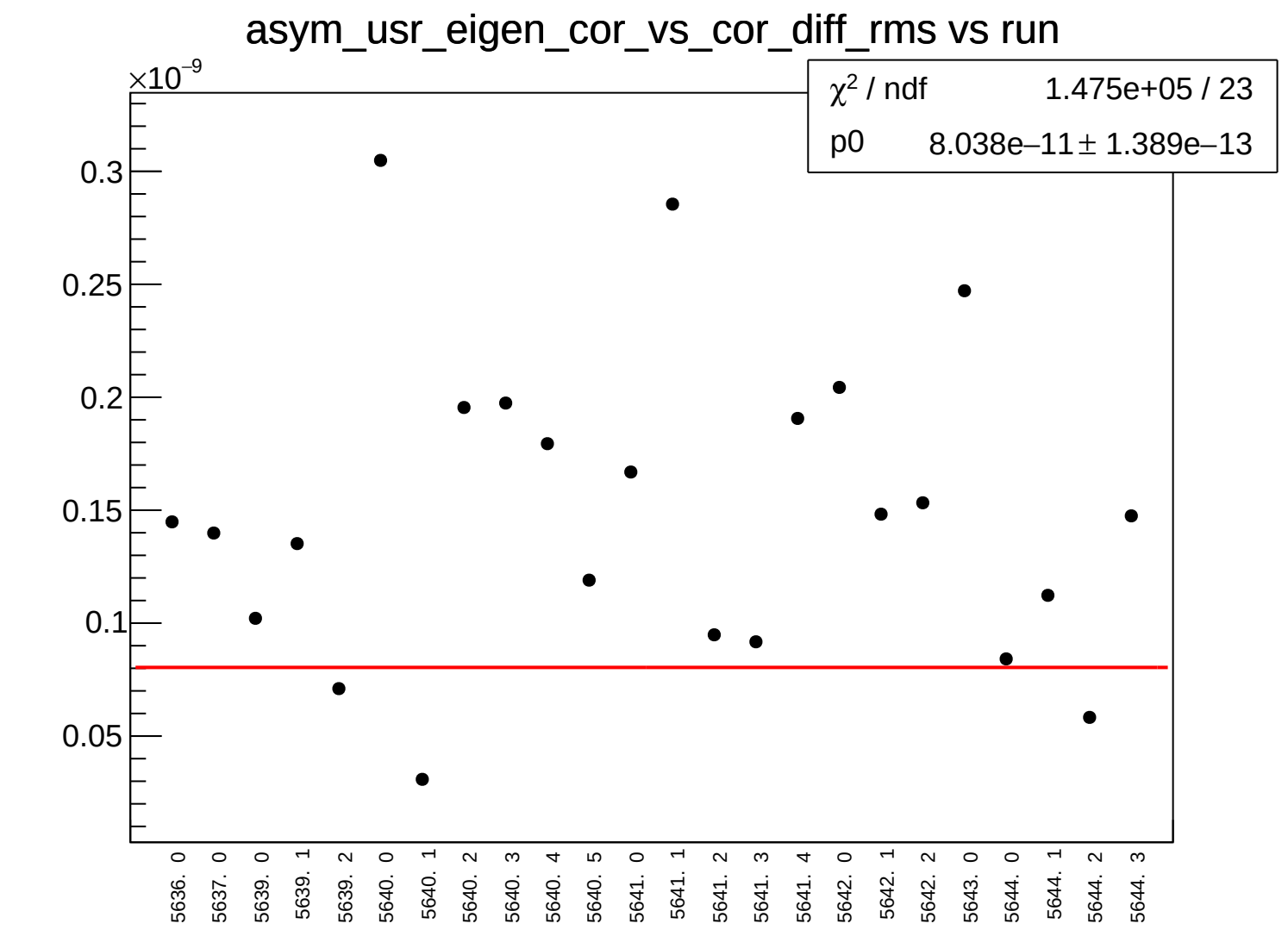
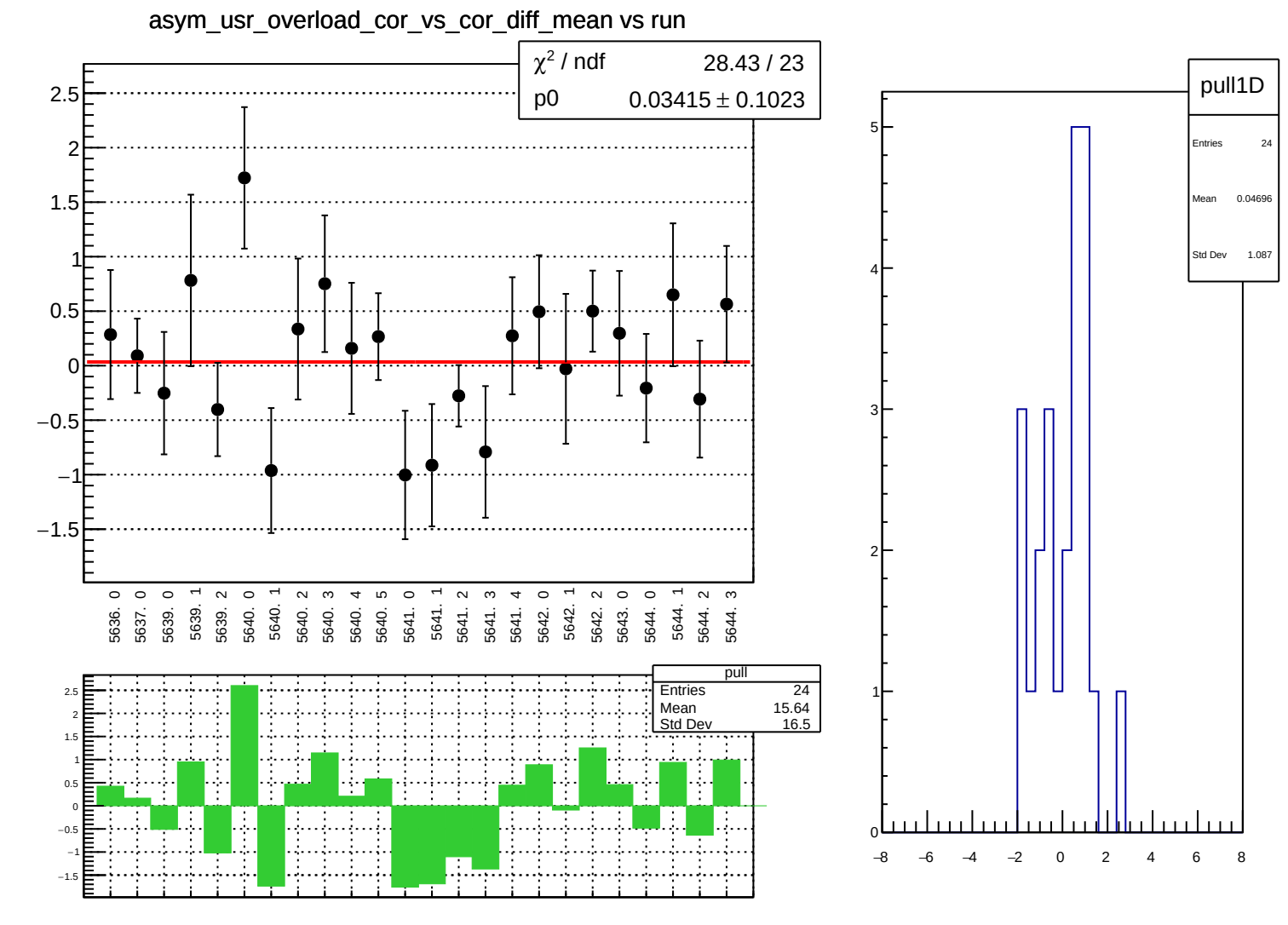
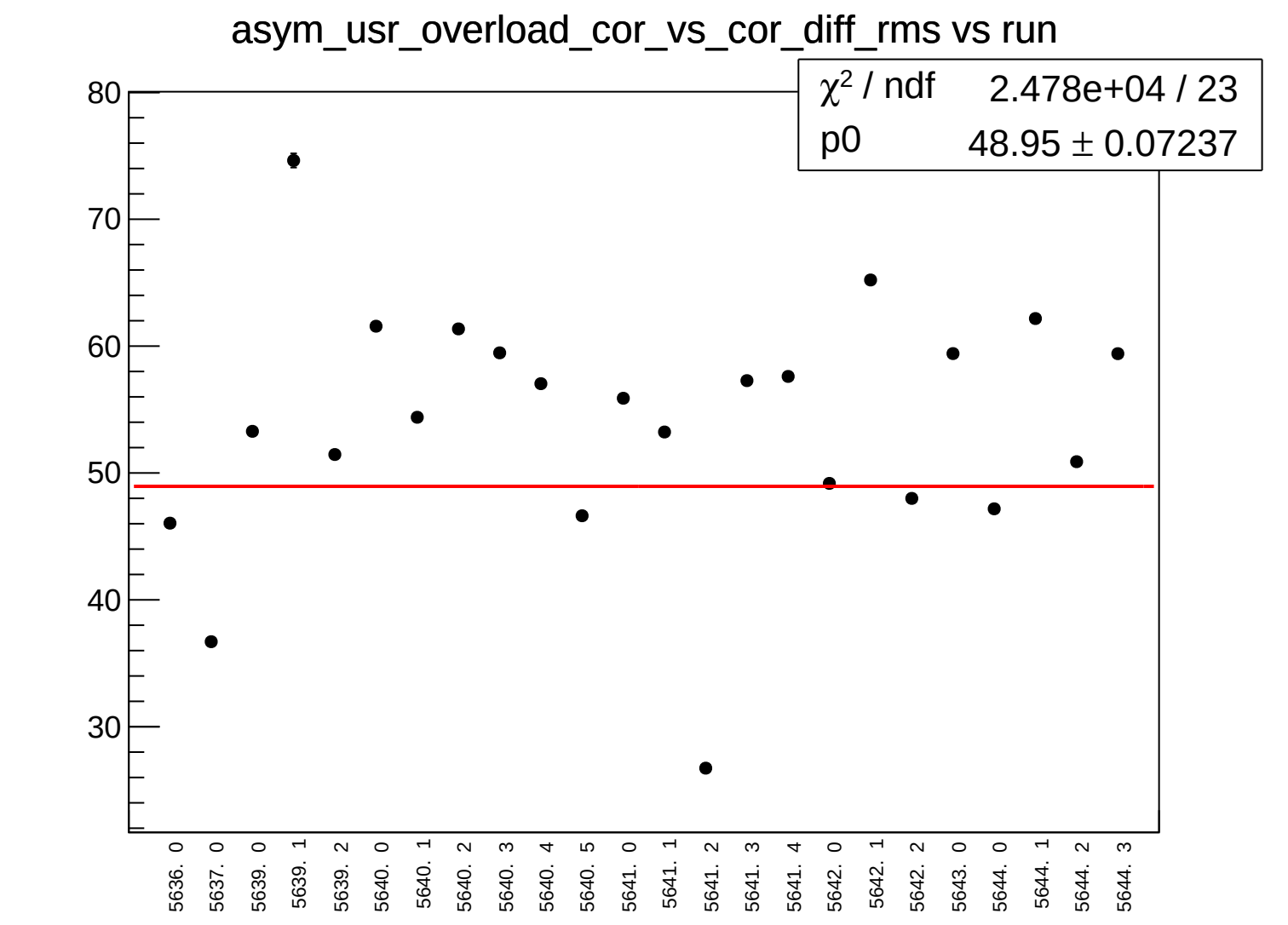
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 34.94 / 23
p0 1.044e−13 ± 1.965e−13
8
6
4
2
0
−2
−4
−6
−8
−10
−12
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −2.718
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 24
Mean 0.08824
Std Dev 1.203
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.475e+05 / 23
p0 8.038e−11 ± 1.389e−13
0.3
0.25
0.2
0.15
0.1
0.05
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 28.43 / 23
p0 0.03415 ± 0.1023
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 15.64
Std Dev 16.5
pull1D
Entries 24
Mean 0.04696
Std Dev 1.087
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 2.478e+04 / 23
p0 48.95 ± 0.07237
80
70
60
50
40
30
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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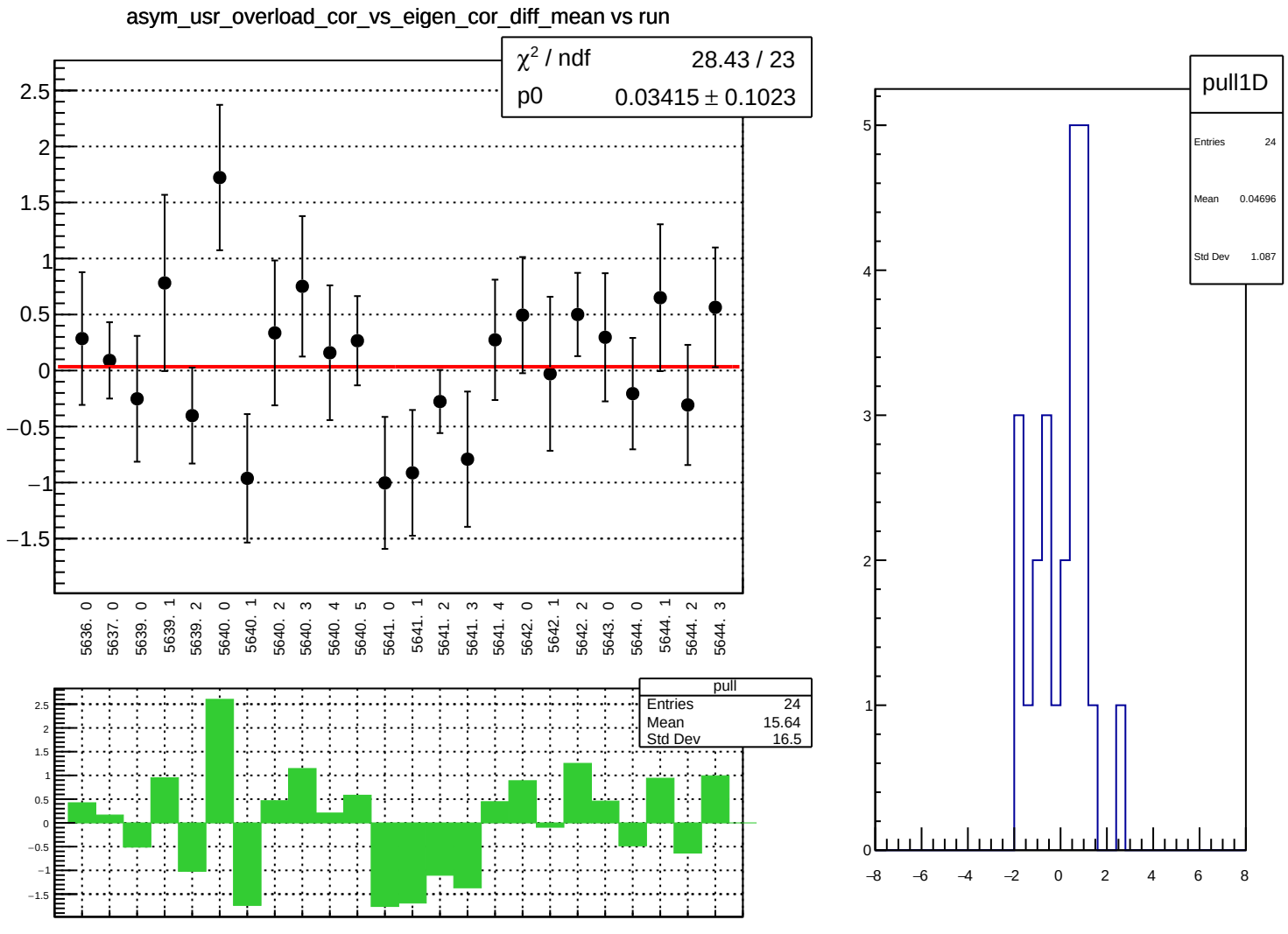
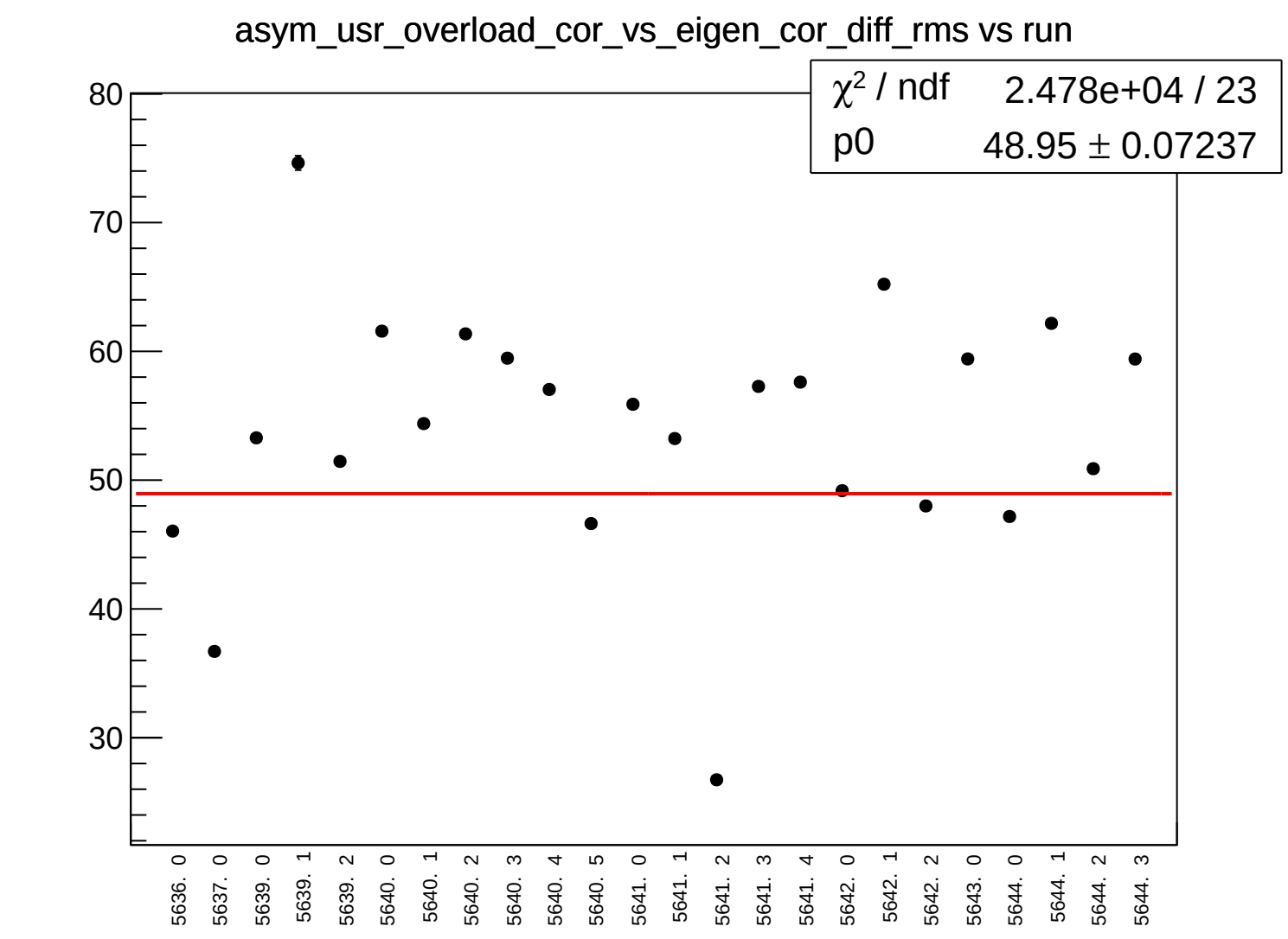
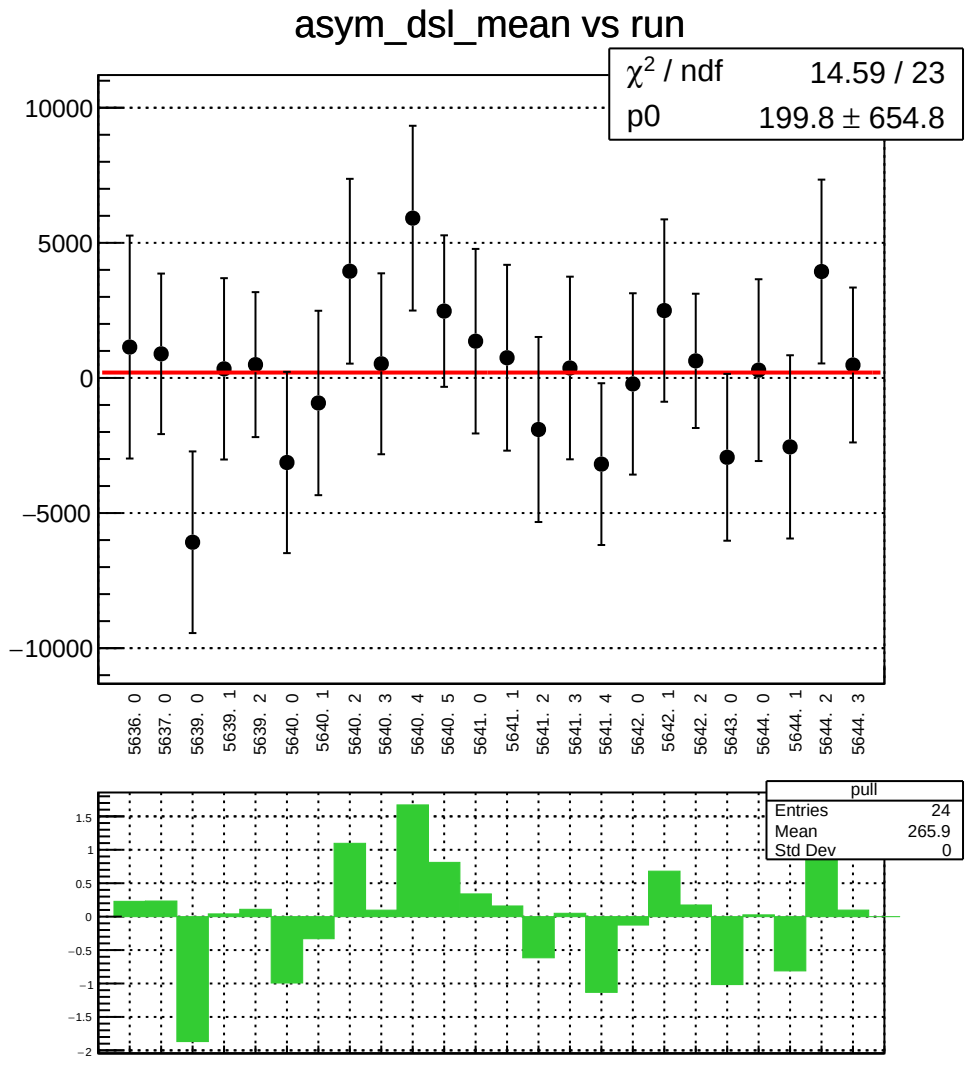
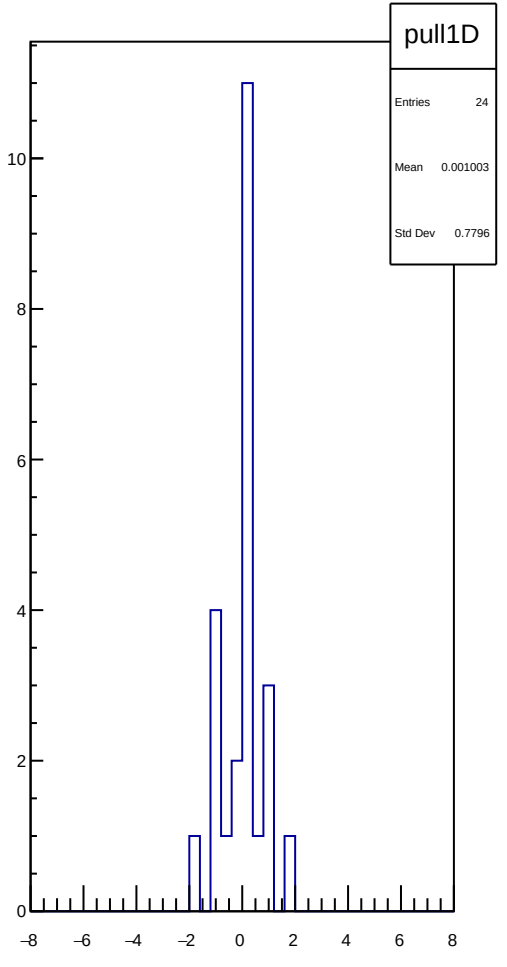
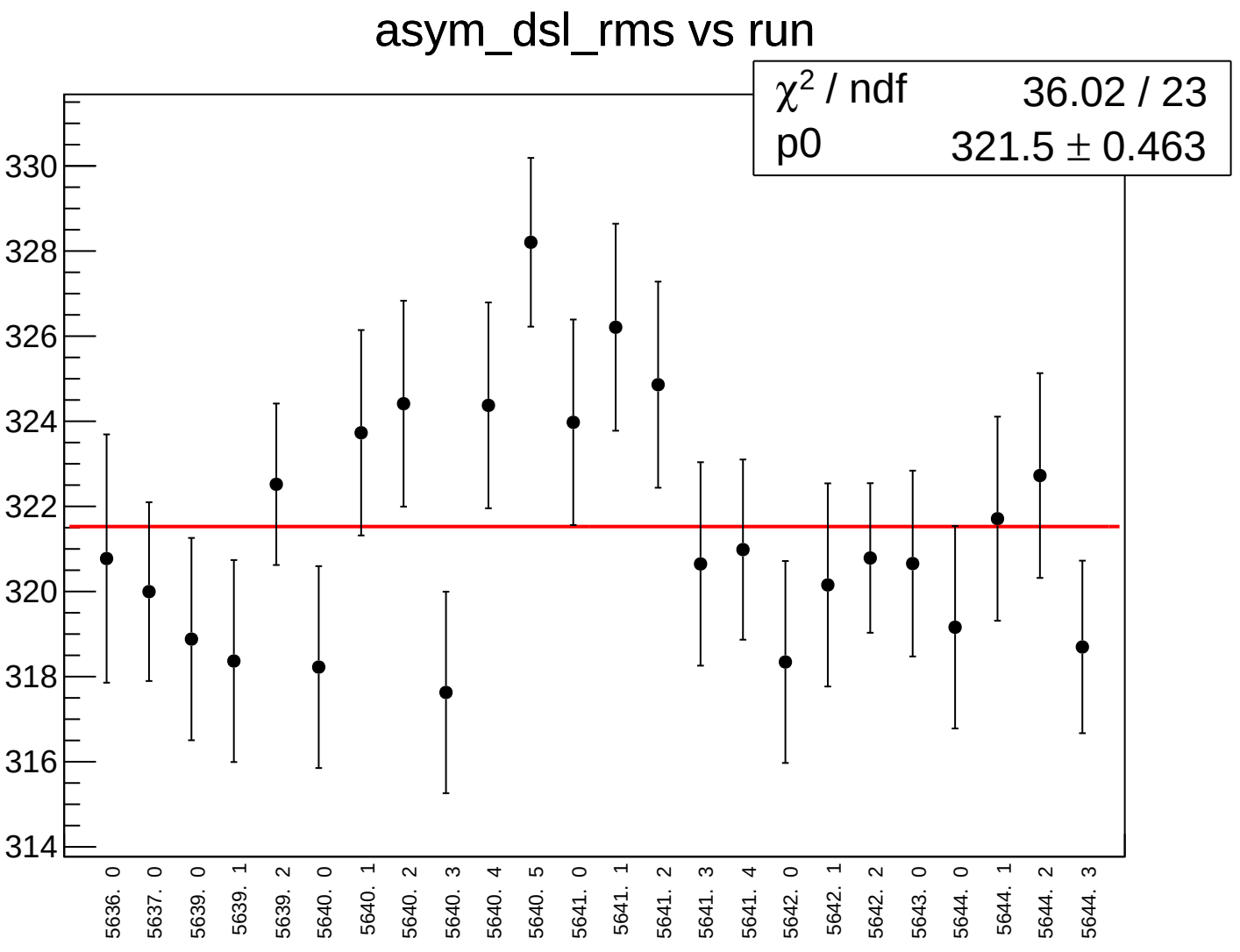
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

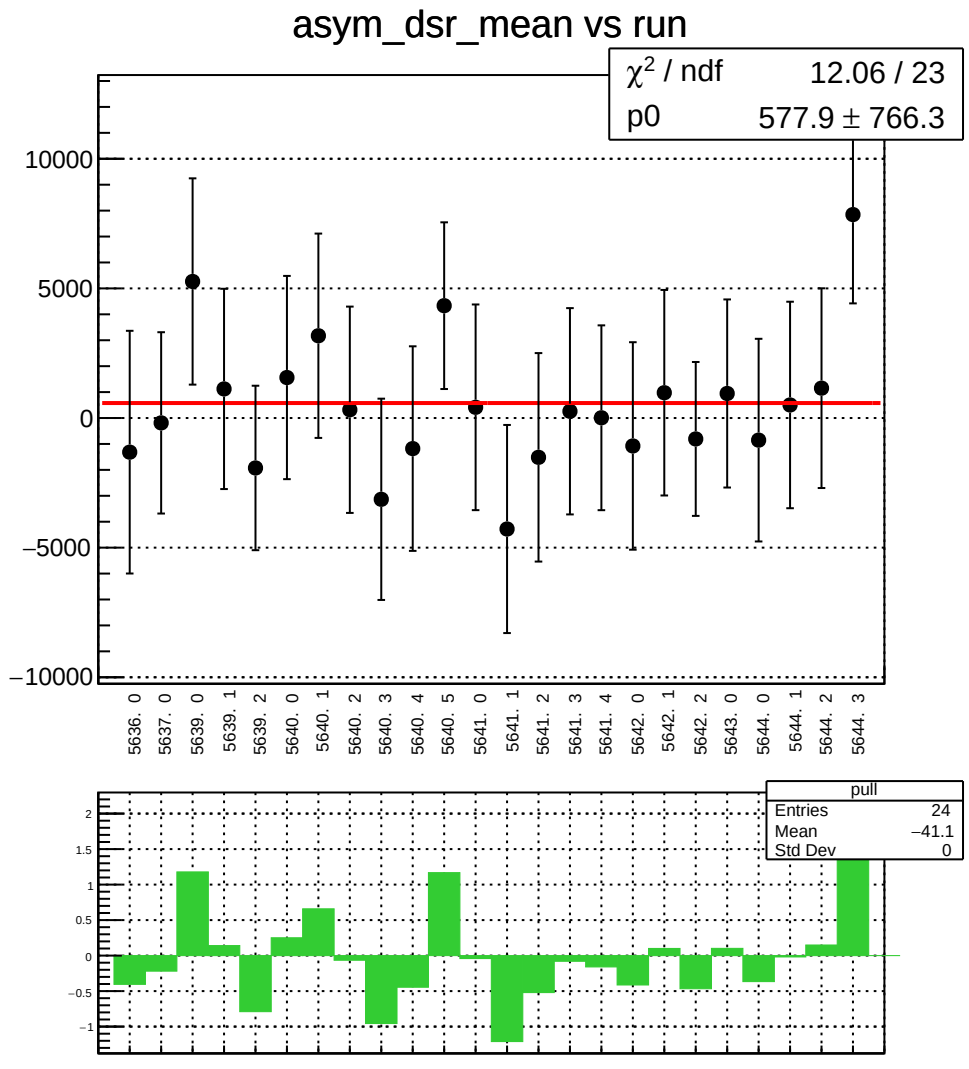

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 28.43 / 23
p0 0.03415 ± 0.1023
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 15.64
Std Dev 16.5
pull1D
Entries 24
Mean 0.04696
Std Dev 1.087
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

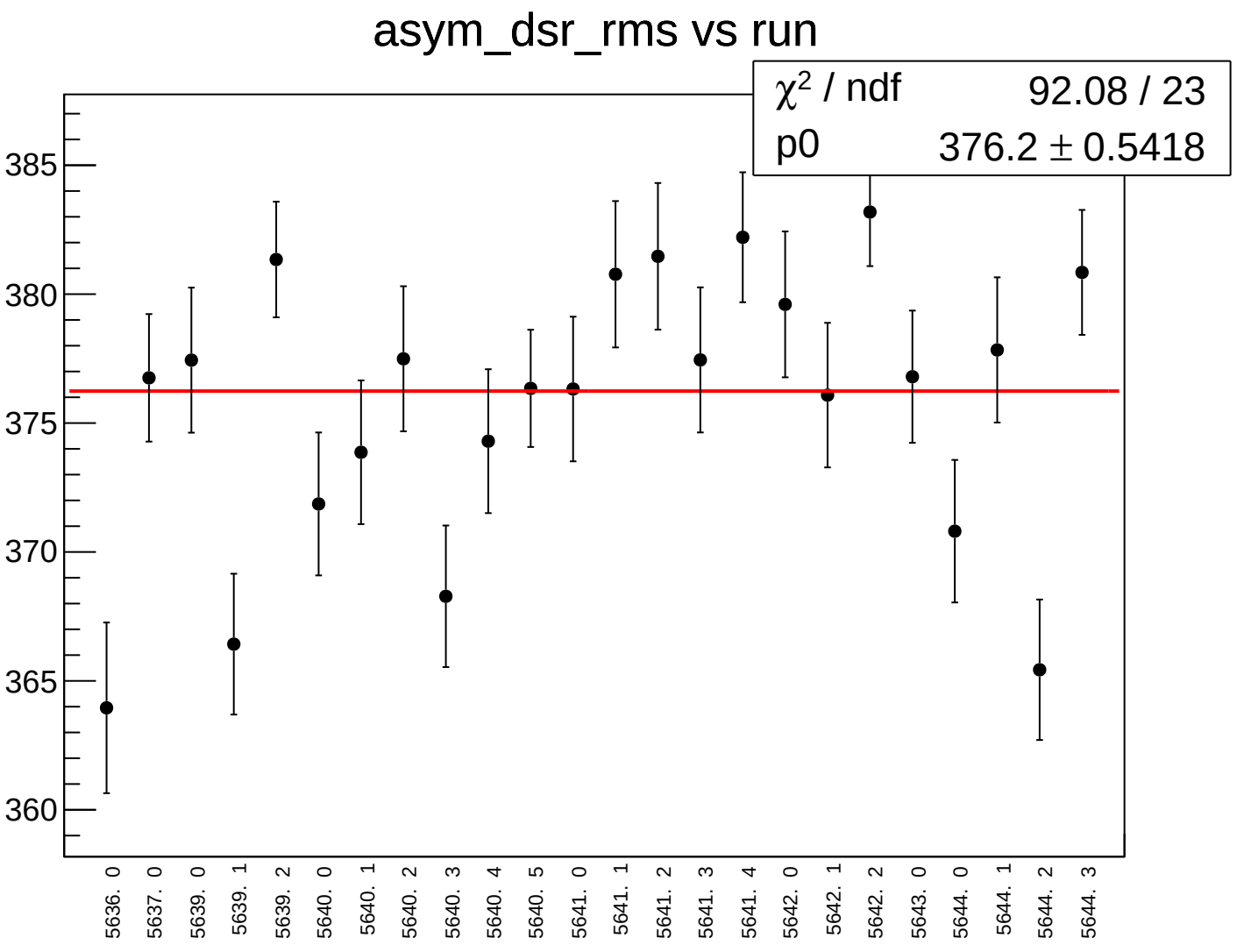

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.478e+04 / 23
p0 48.95 ± 0.07237
80
70
60
50
40
30
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

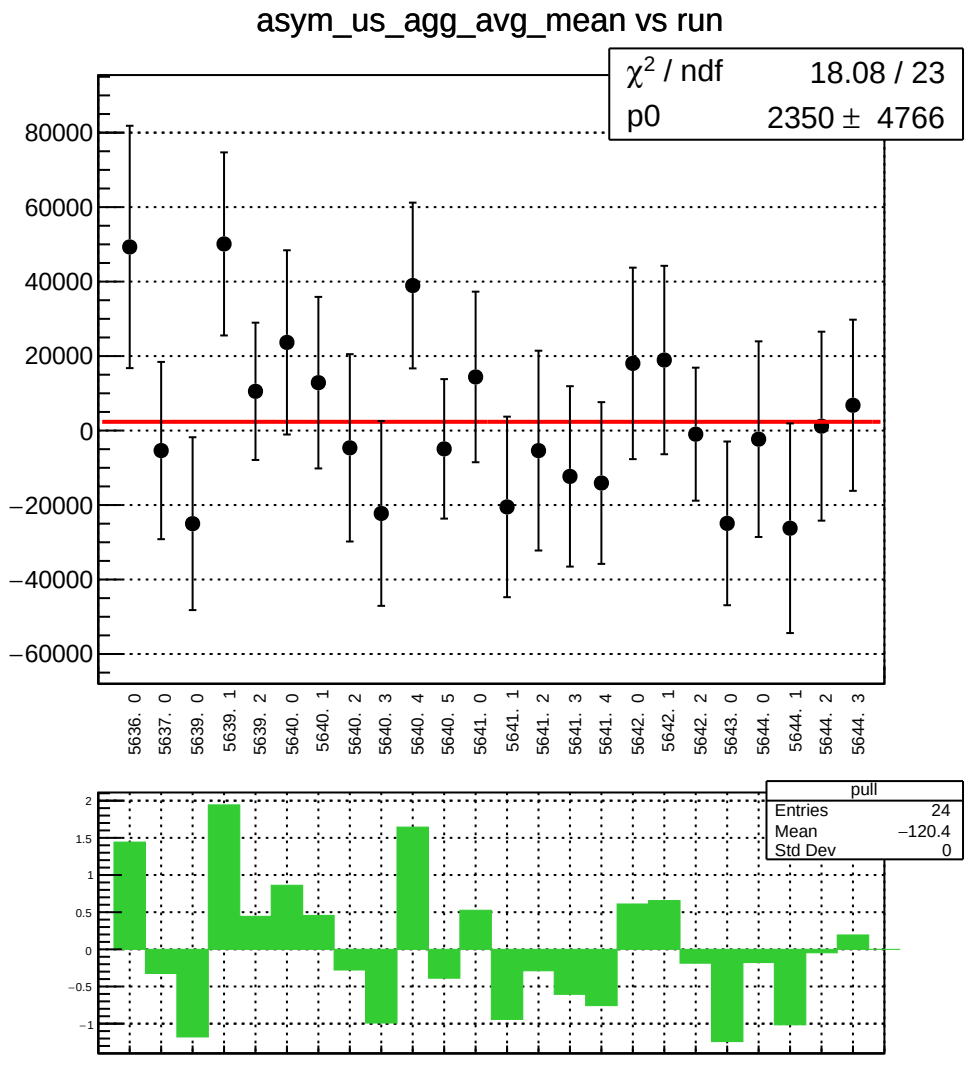

asym_dsl_mean vs run
χ² / ndf 14.59 / 23
p0 199.8 ± 654.8
10000
5000
0
−5000
−10000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 265.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

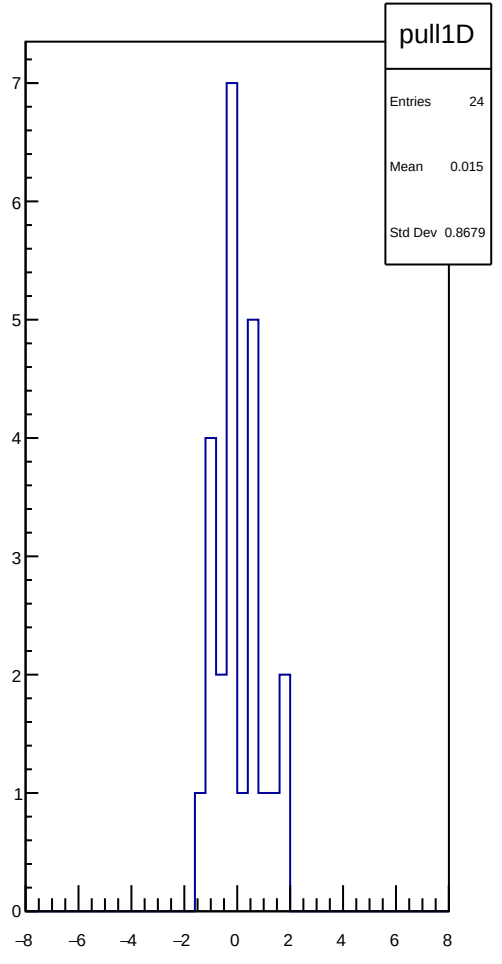

pull1D
Entries 24
Mean 0.001003
Std Dev 0.7796
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

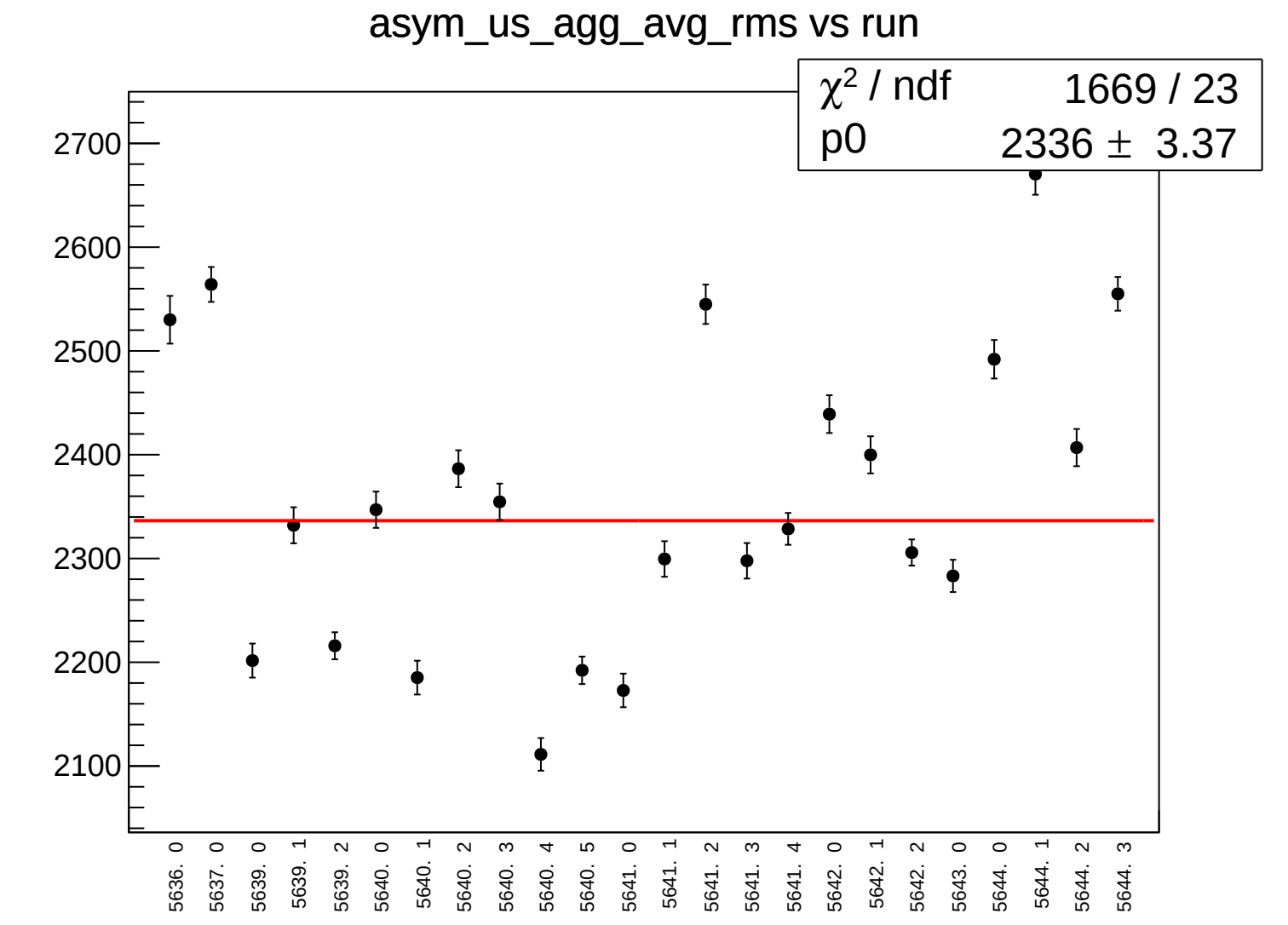

asym_dsl_rms vs run
χ^2 / ndf 36.02 / 23
p0 321.5 ± 0.463
330
328
326
324
322
320
318
316
314
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

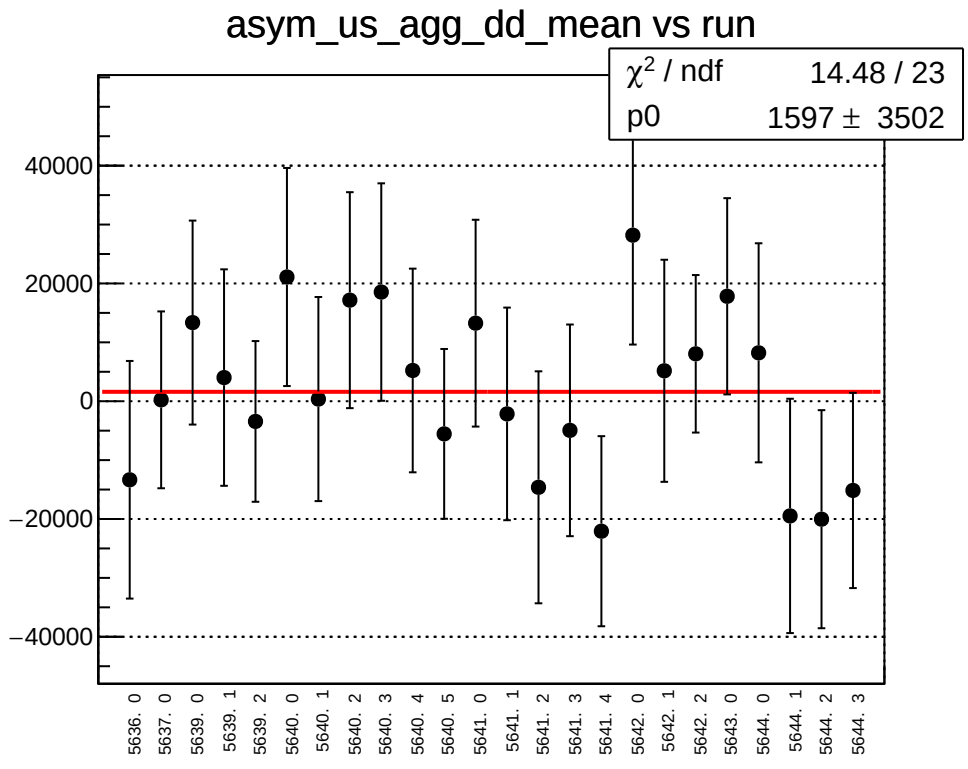

asym_dsr_mean vs run
χ² / ndf 12.06 / 23
p0 577.9 ± 766.3
10000
5000
0
−5000
−10000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −41.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.01193
Std Dev 0.7088
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

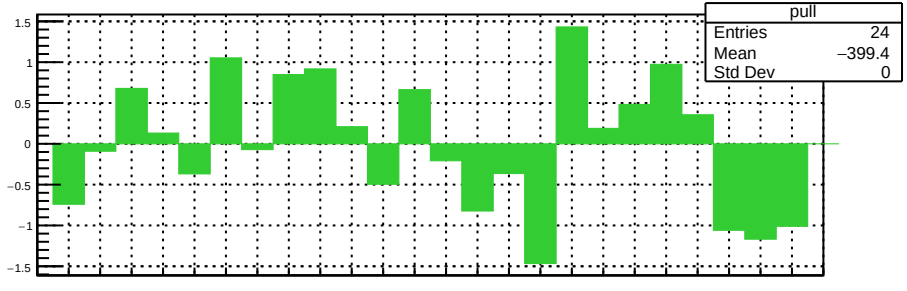

asym_dsr_rms vs run
χ² / ndf 92.08 / 23
p0 376.2 ± 0.5418
385
380
375
370
365
360
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

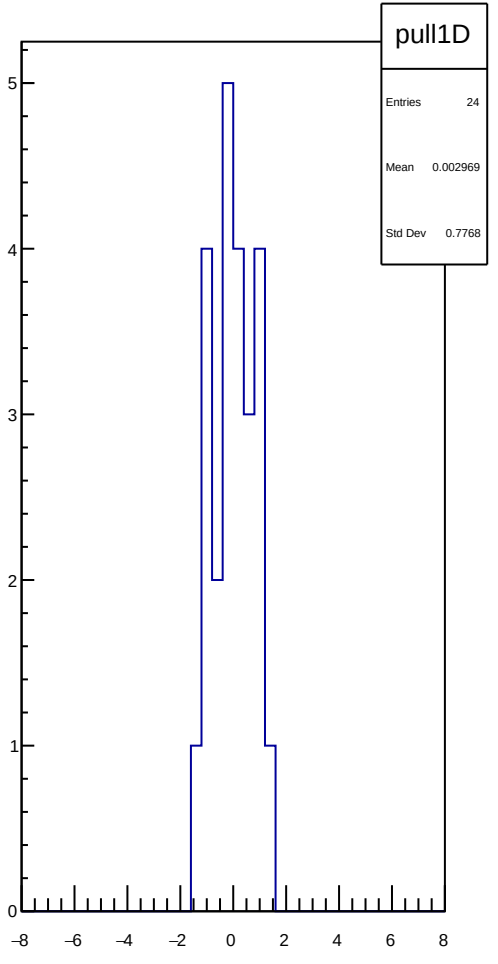

asym_us_agg_avg_mean vs run
χ² / ndf 18.08 / 23
p0 2350 ± 4766
80000
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −120.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

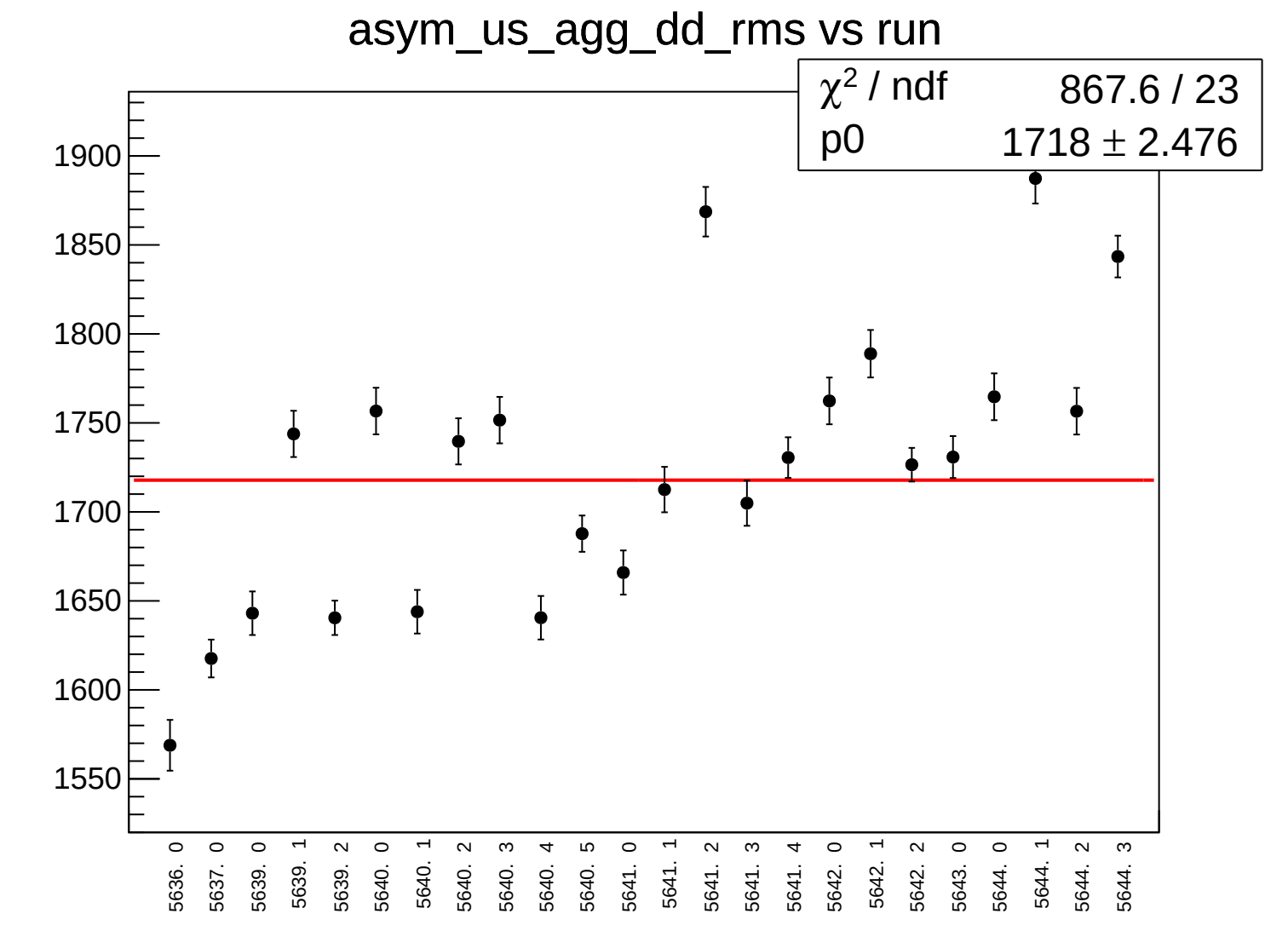

pull1D
Entries 24
Mean 0.015
Std Dev 0.8679
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

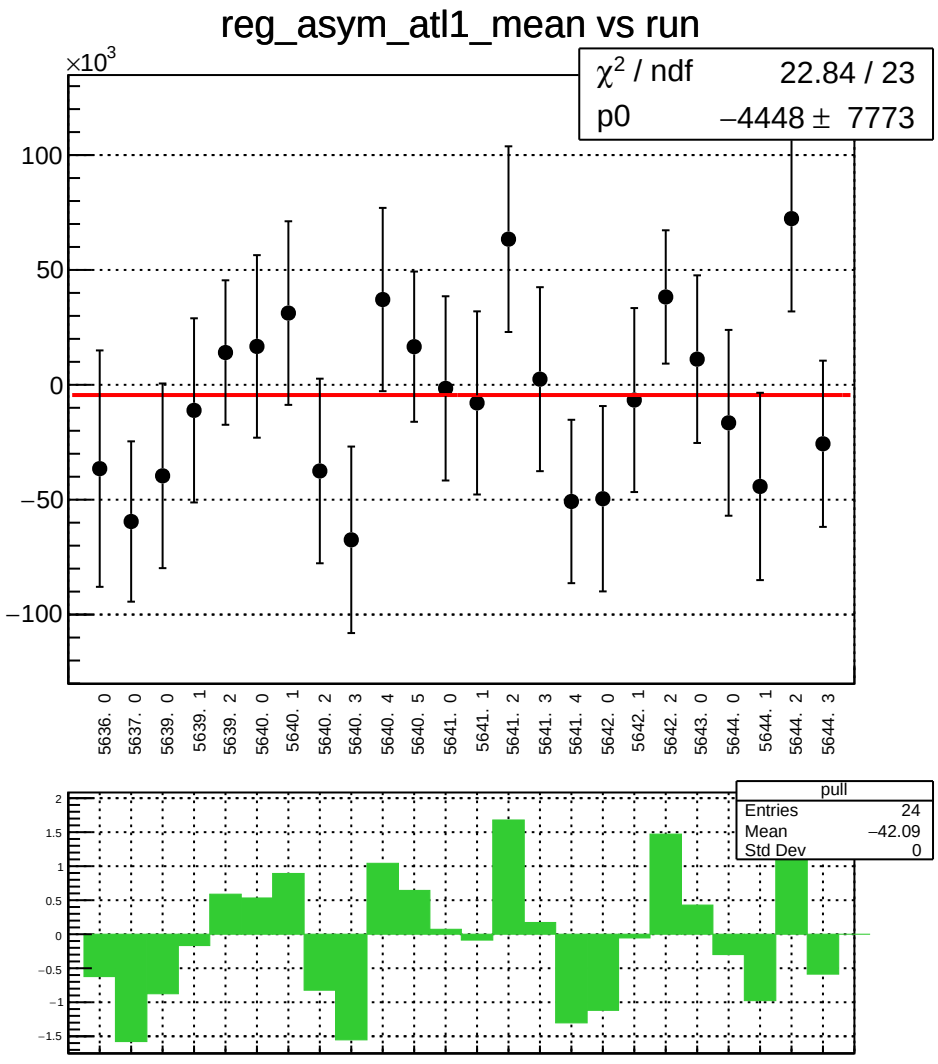

asym_us_agg_avg_rms vs run
χ² / ndf 1669 / 23
p0 2336 ± 3.37
2700
2600
2500
2400
2300
2200
2100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

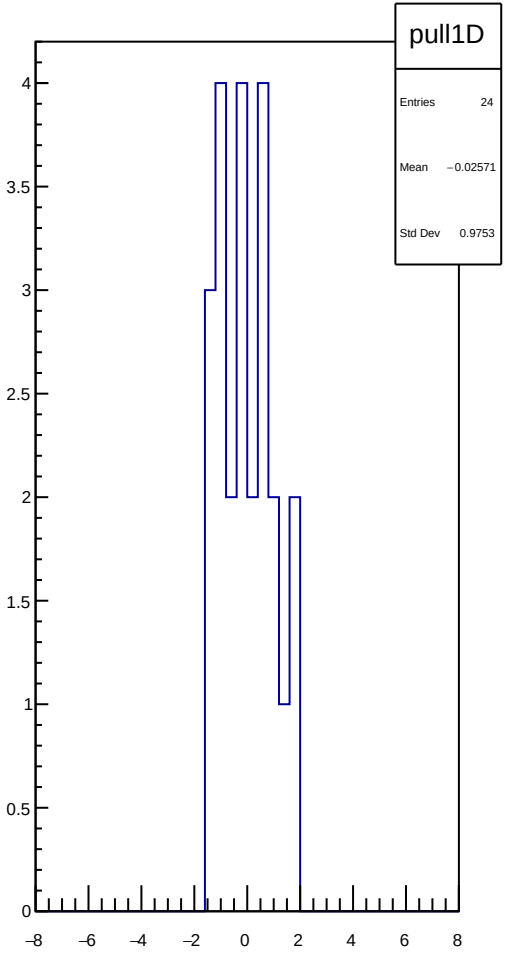

asym_us_agg_dd_mean vs run
χ² / ndf 14.48 / 23
p0 1597 ± 3502
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

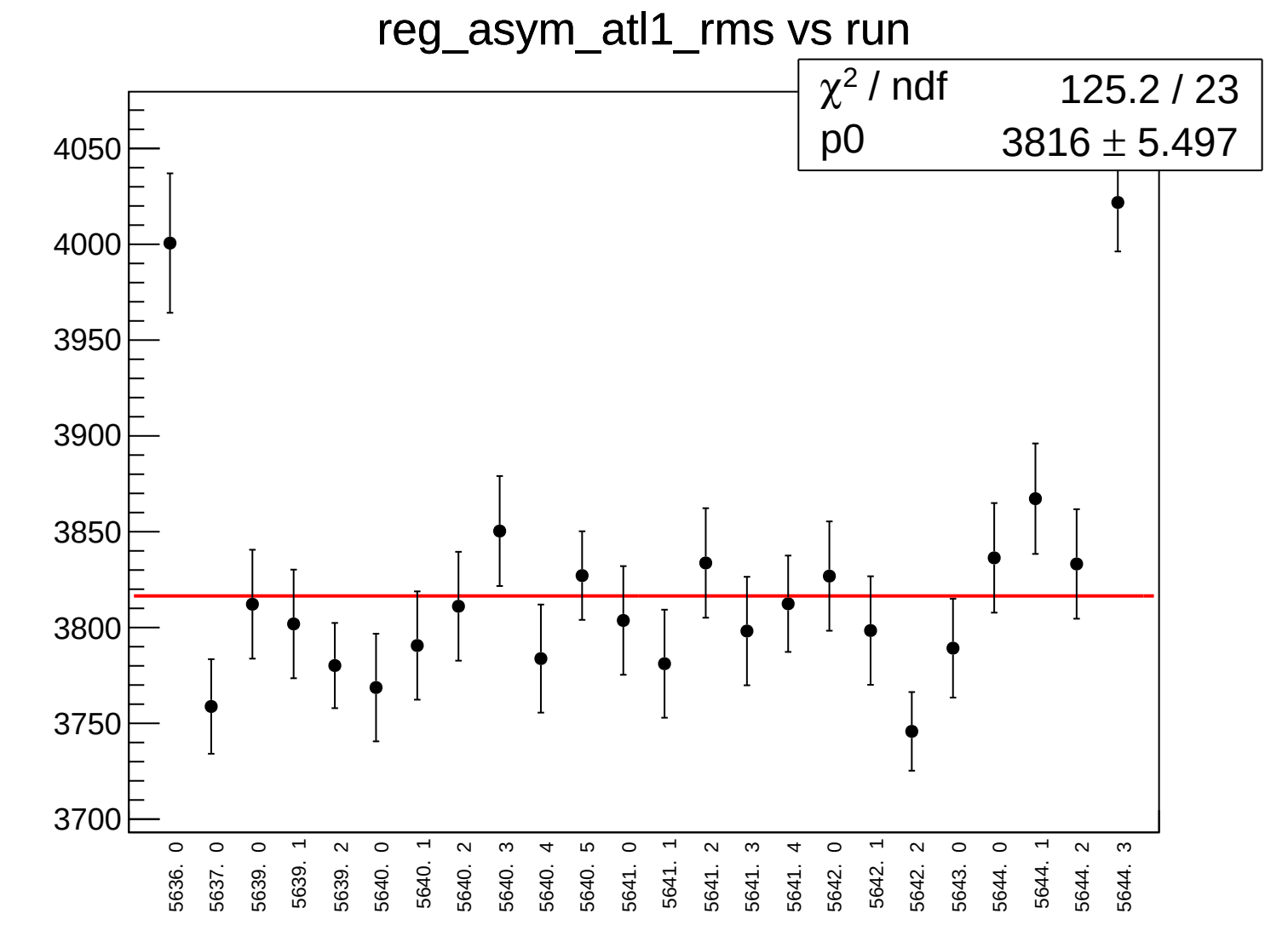

pull
Entries 24
Mean −399.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

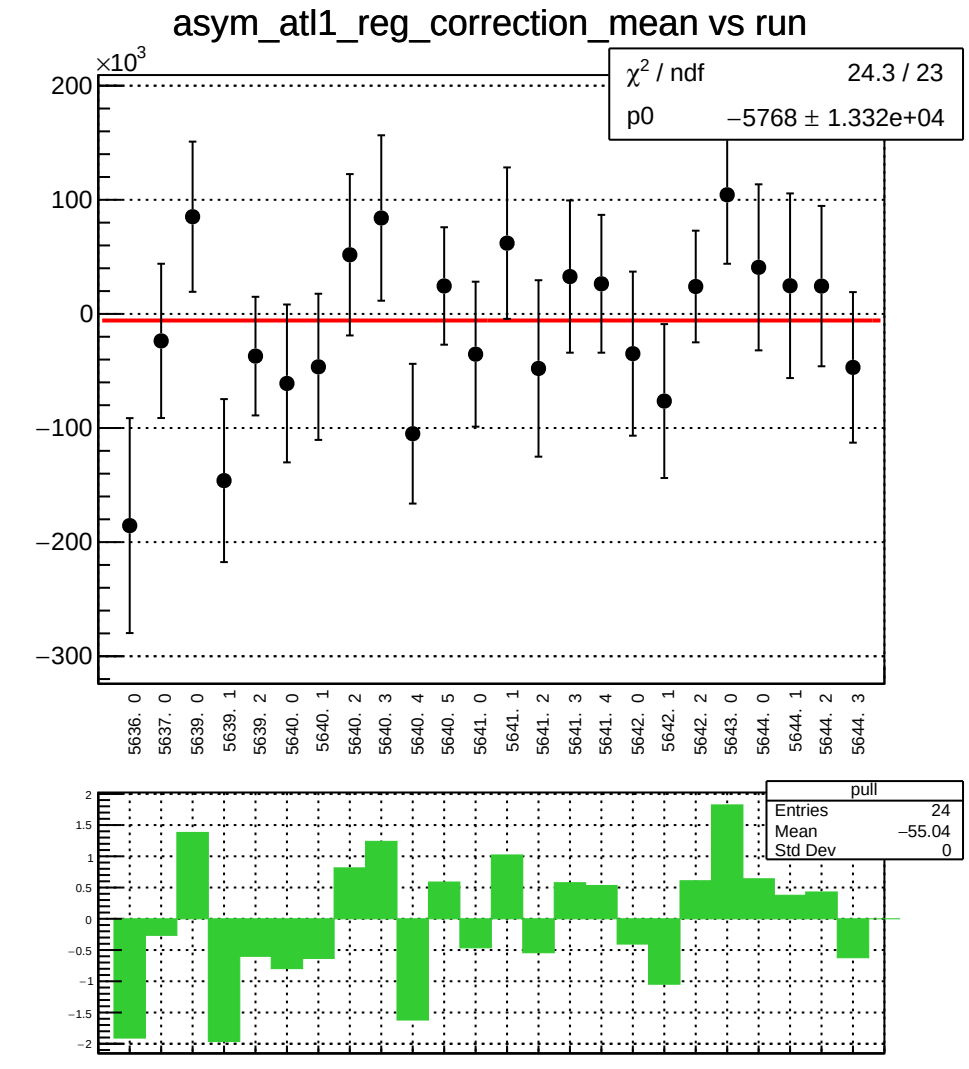

pull1D
Entries 24
Mean 0.002969
Std Dev 0.7768
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

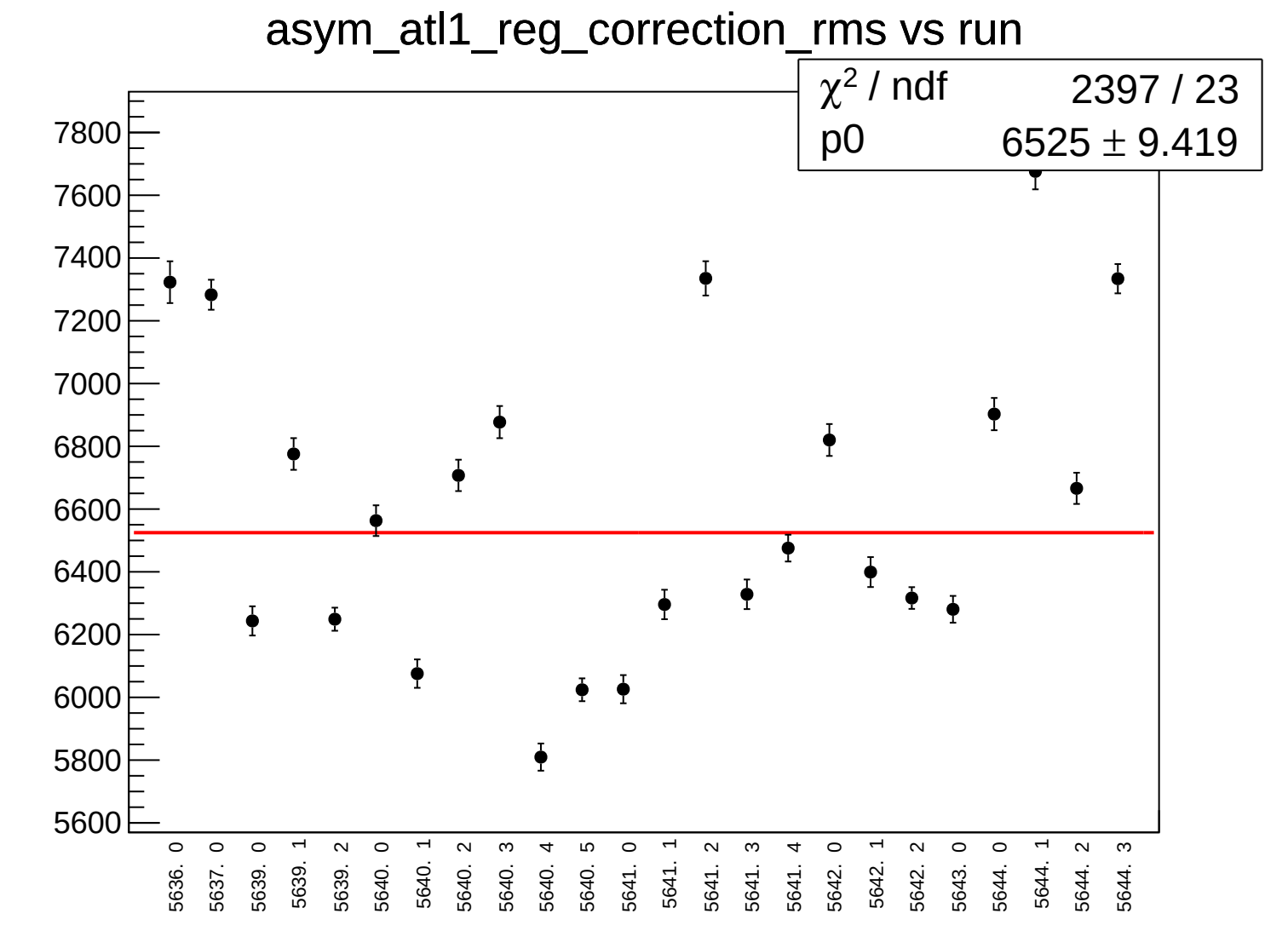

asym_us_agg_dd_rms vs run
χ² / ndf 867.6 / 23
p0 1718 ± 2.476
1900
1850
1800
1750
1700
1650
1600
1550
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

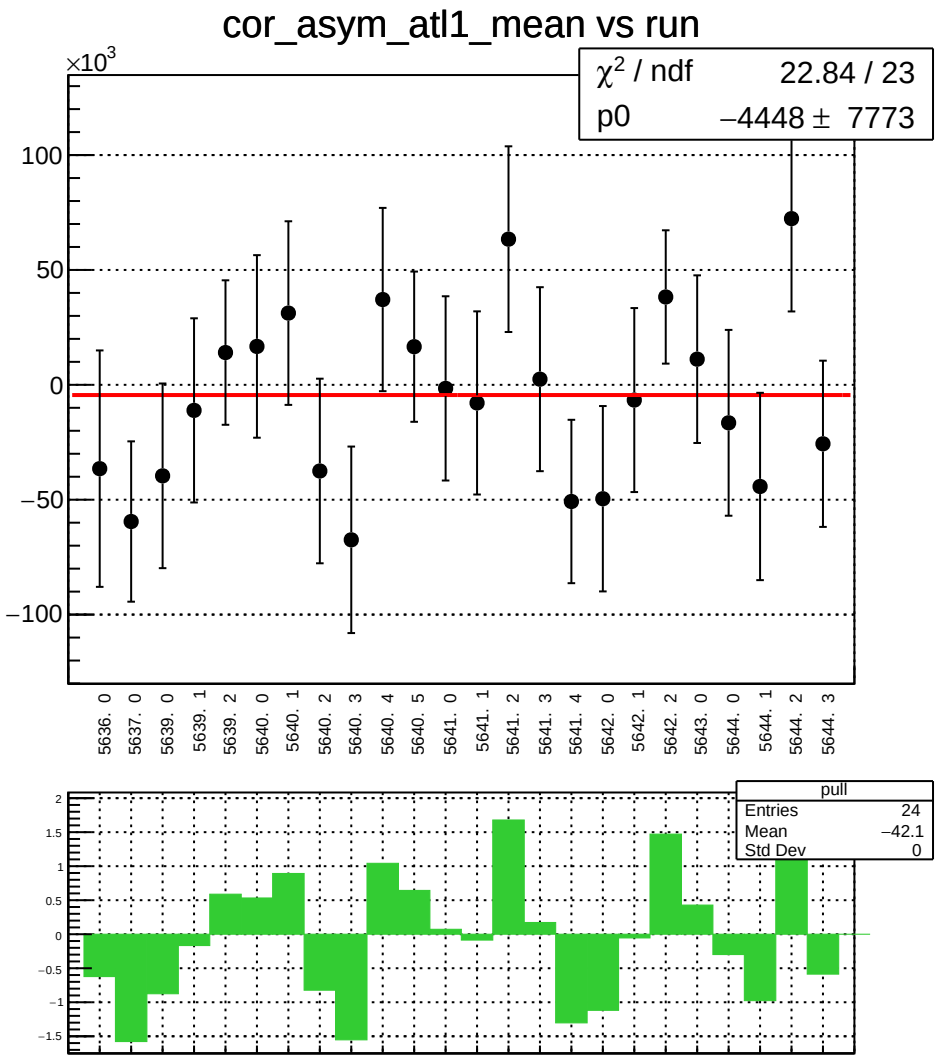

reg_asym_atl1_mean vs run
×10^3
χ^2 / ndf 22.84 / 23
p0 −4448 ± 7773
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −42.09
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

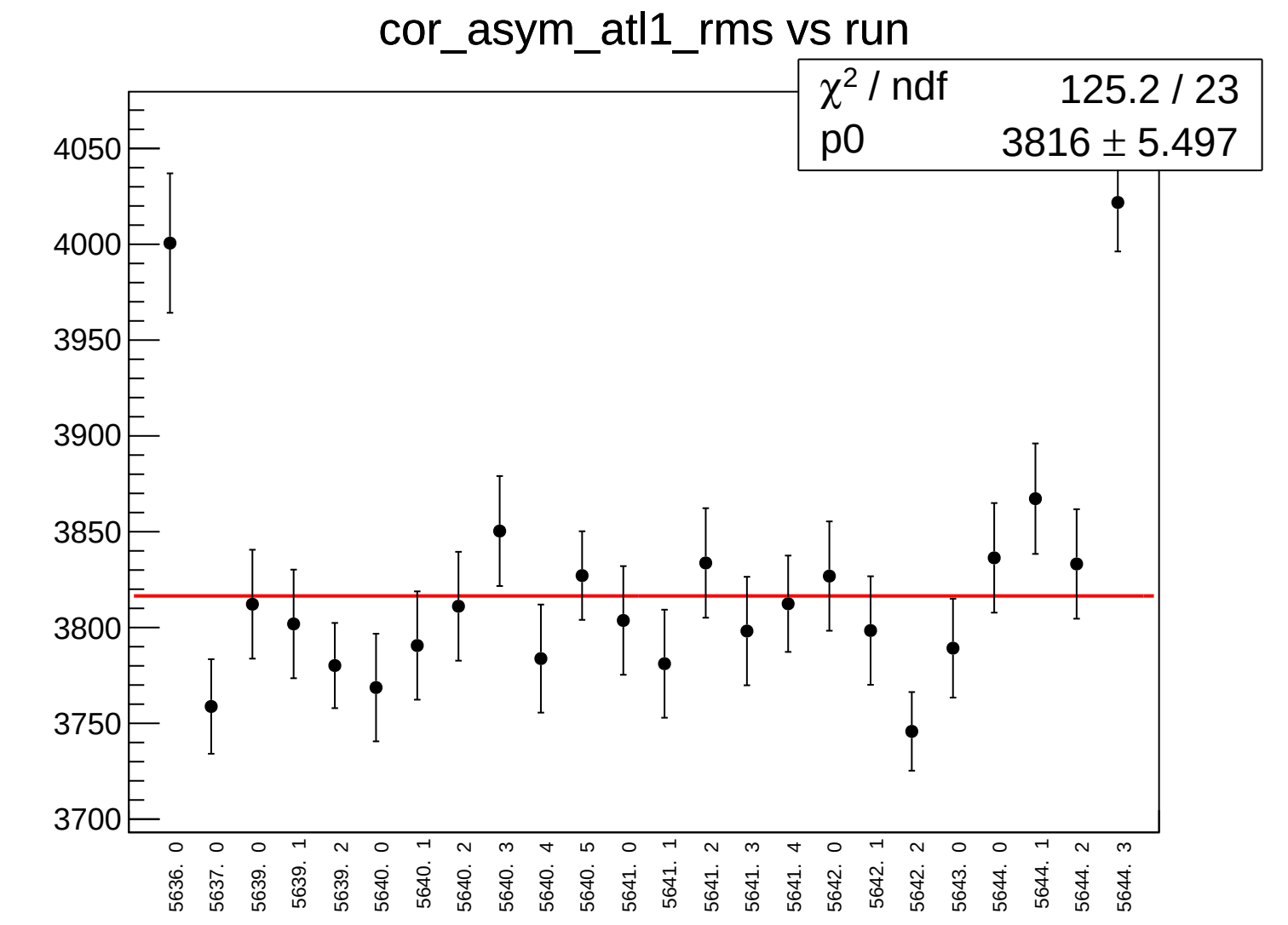

pull1D
Entries 24
Mean −0.02571
Std Dev 0.9753
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

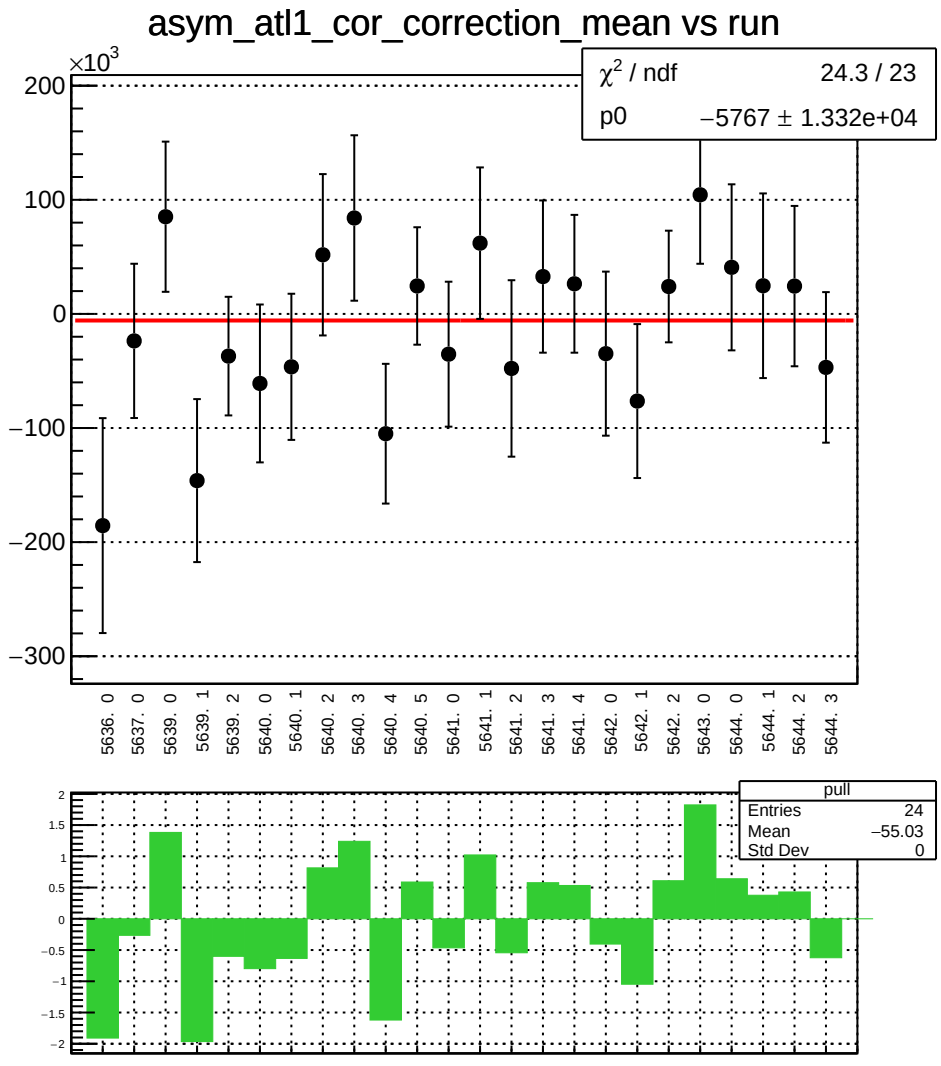

reg_asym_atl1_rms vs run
χ² / ndf 125.2 / 23
p0 3816 ± 5.497
4050
4000
3950
3900
3850
3800
3750
3700
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

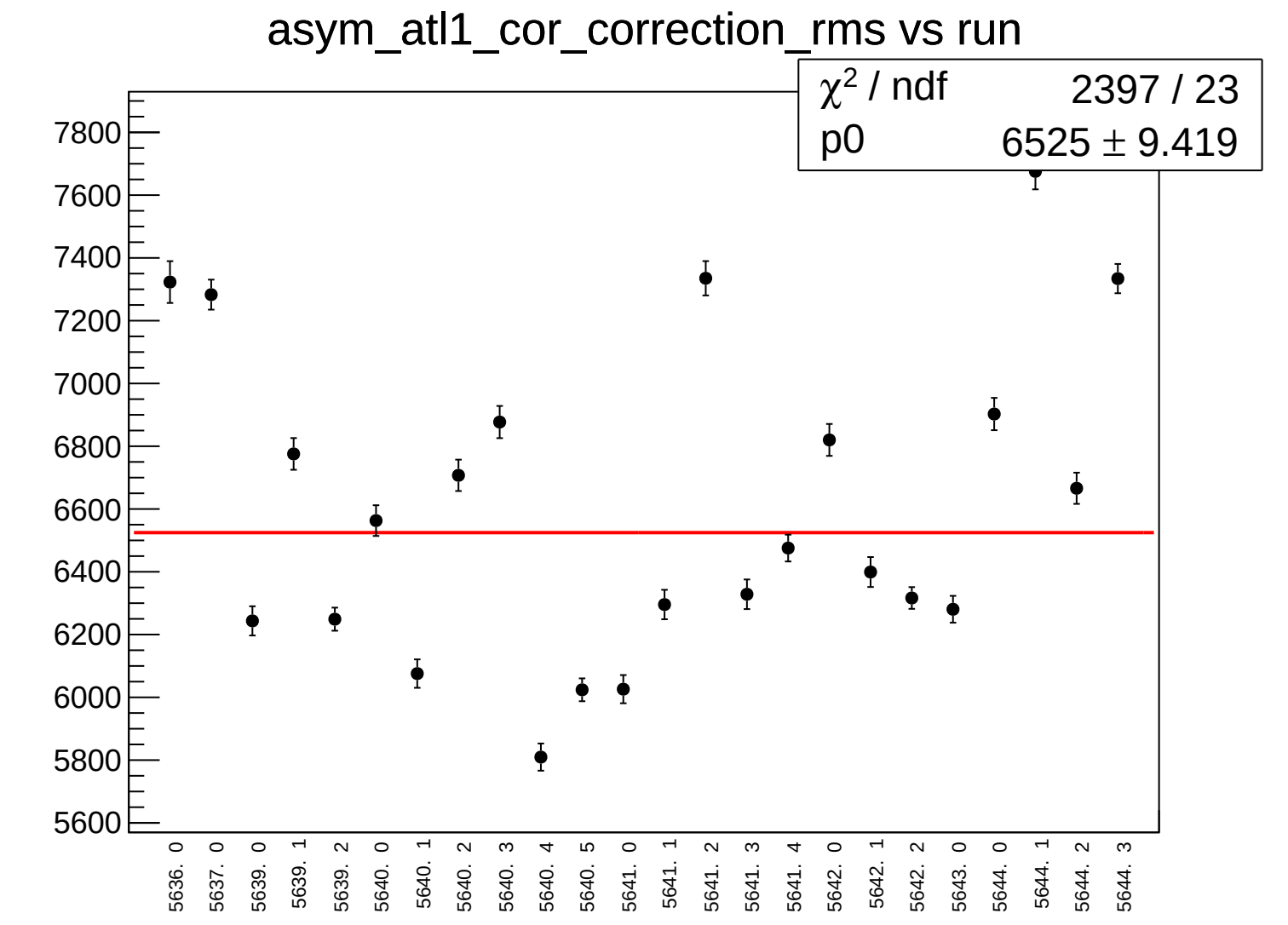

asym_atl1_reg_correction_mean vs run
×10^3
χ² / ndf 24.3 / 23
p0 −5768 ± 1.332e+04
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −55.04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.03498
Std Dev 1.006
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

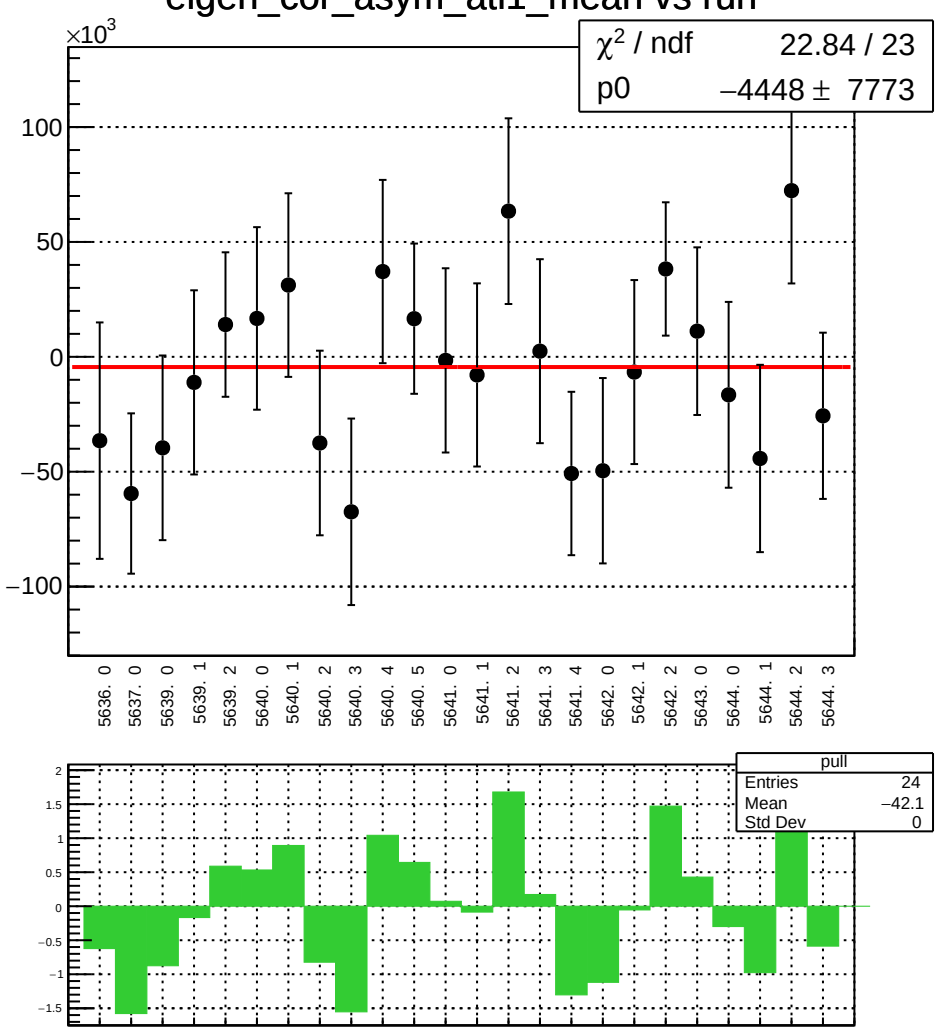

asym_atl1_reg_correction_rms vs run
χ² / ndf 2397 / 23
p0 6525 ± 9.419
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

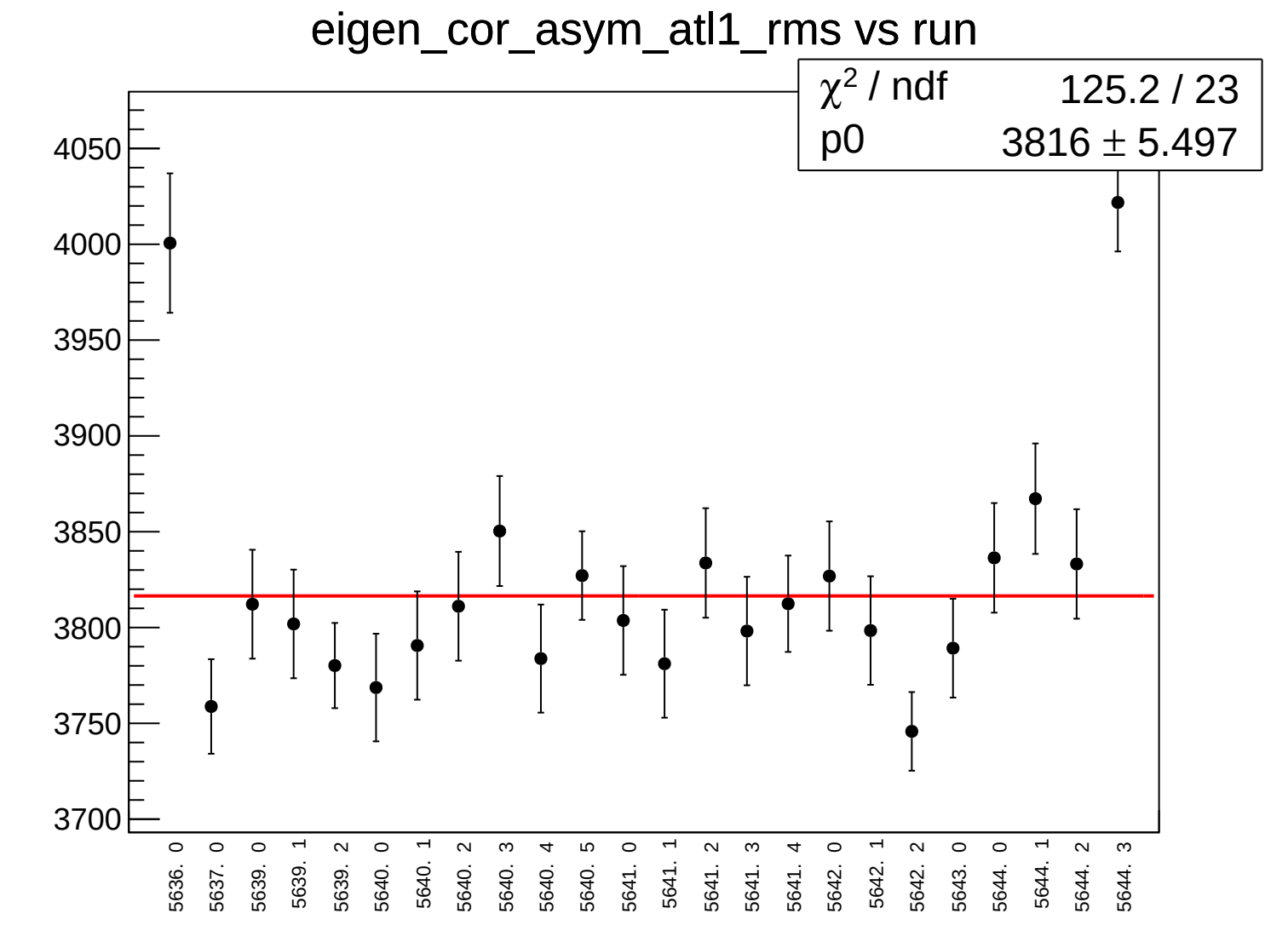

cor_asym_atl1_mean vs run
χ² / ndf 22.84 / 23
p0 −4448 ± 7773
×10³
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −42.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.02571
Std Dev 0.9753
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

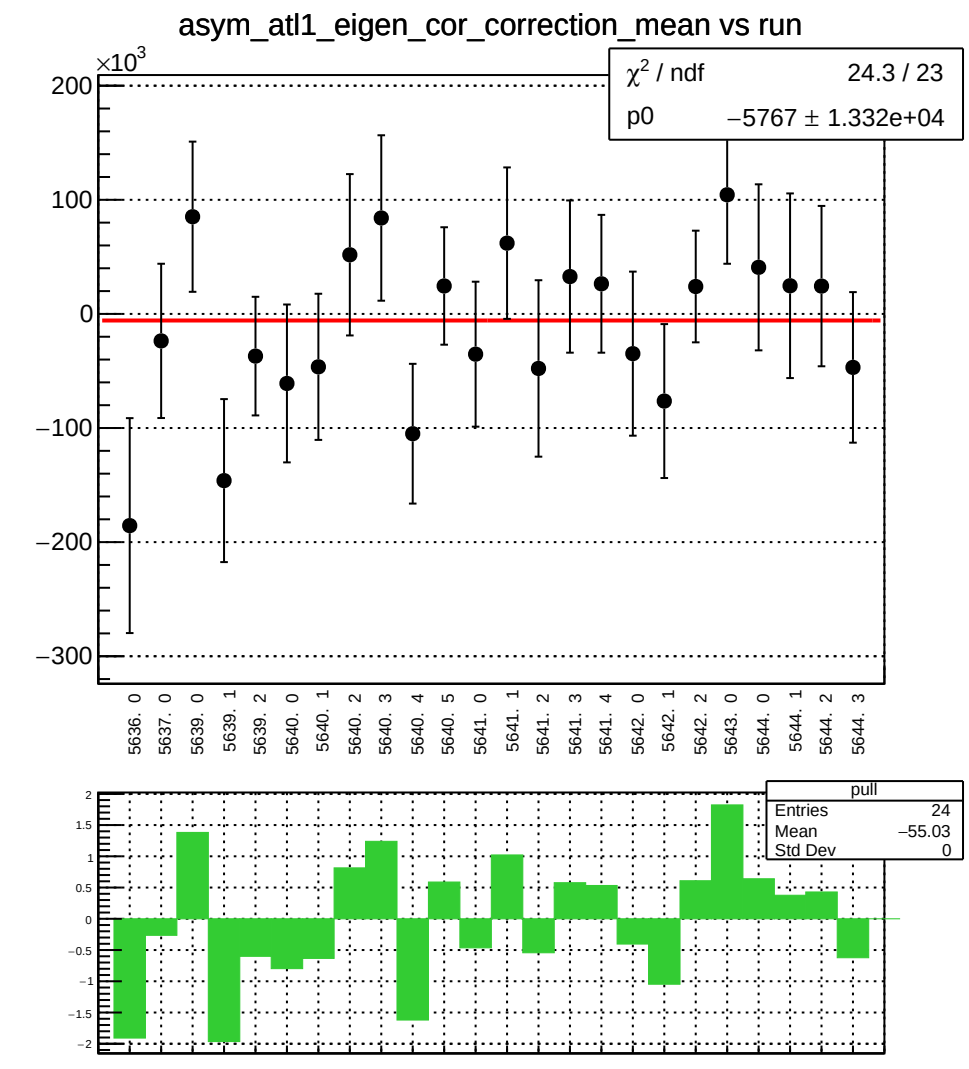

cor_asym_atl1_rms vs run
χ² / ndf 125.2 / 23
p0 3816 ± 5.497
4050
4000
3950
3900
3850
3800
3750
3700
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

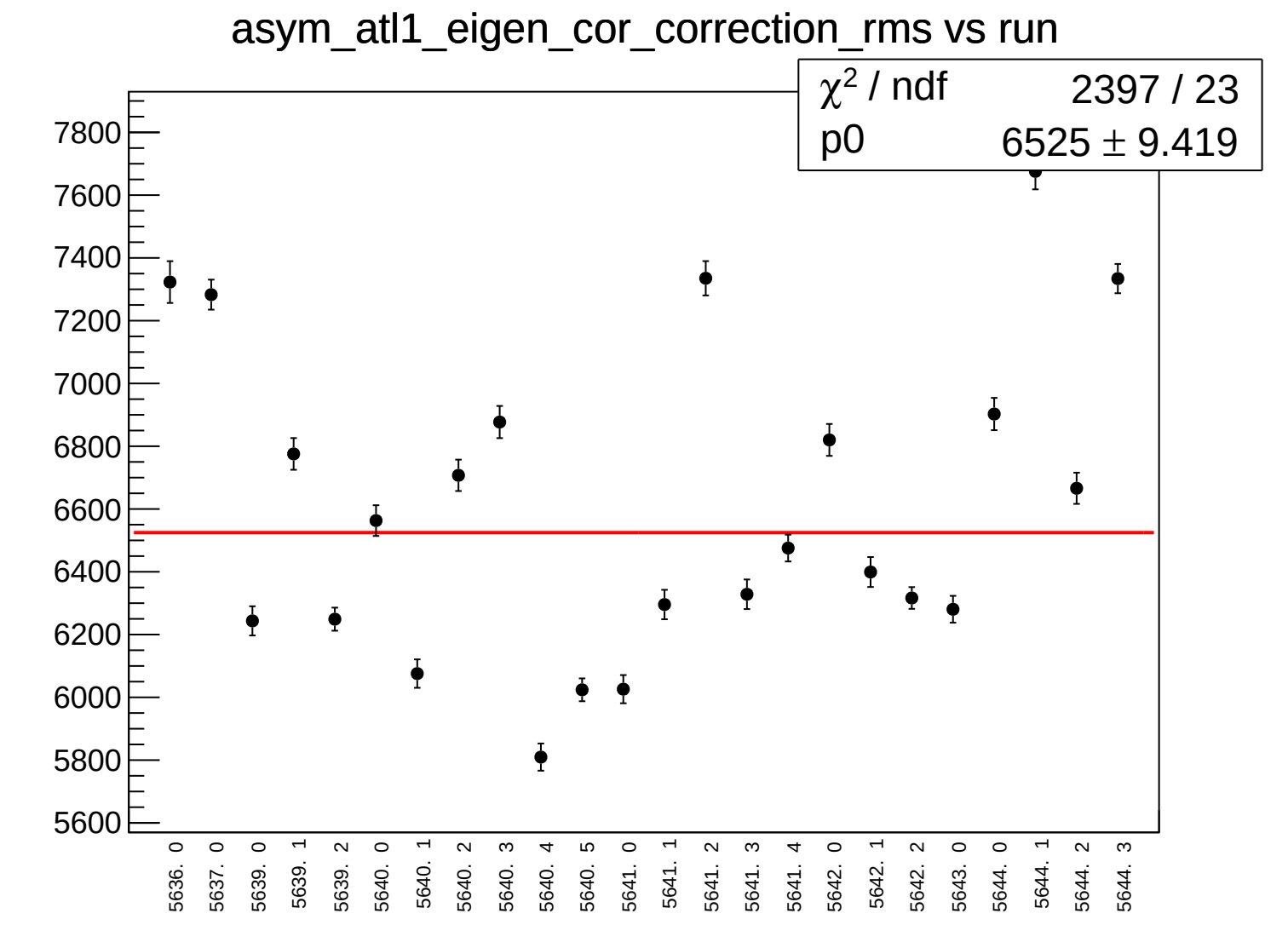

asym_atl1_cor_correction_mean vs run
×10^3
χ² / ndf 24.3 / 23
p0 −5767 ± 1.332e+04
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −55.03
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.03498
Std Dev 1.006
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

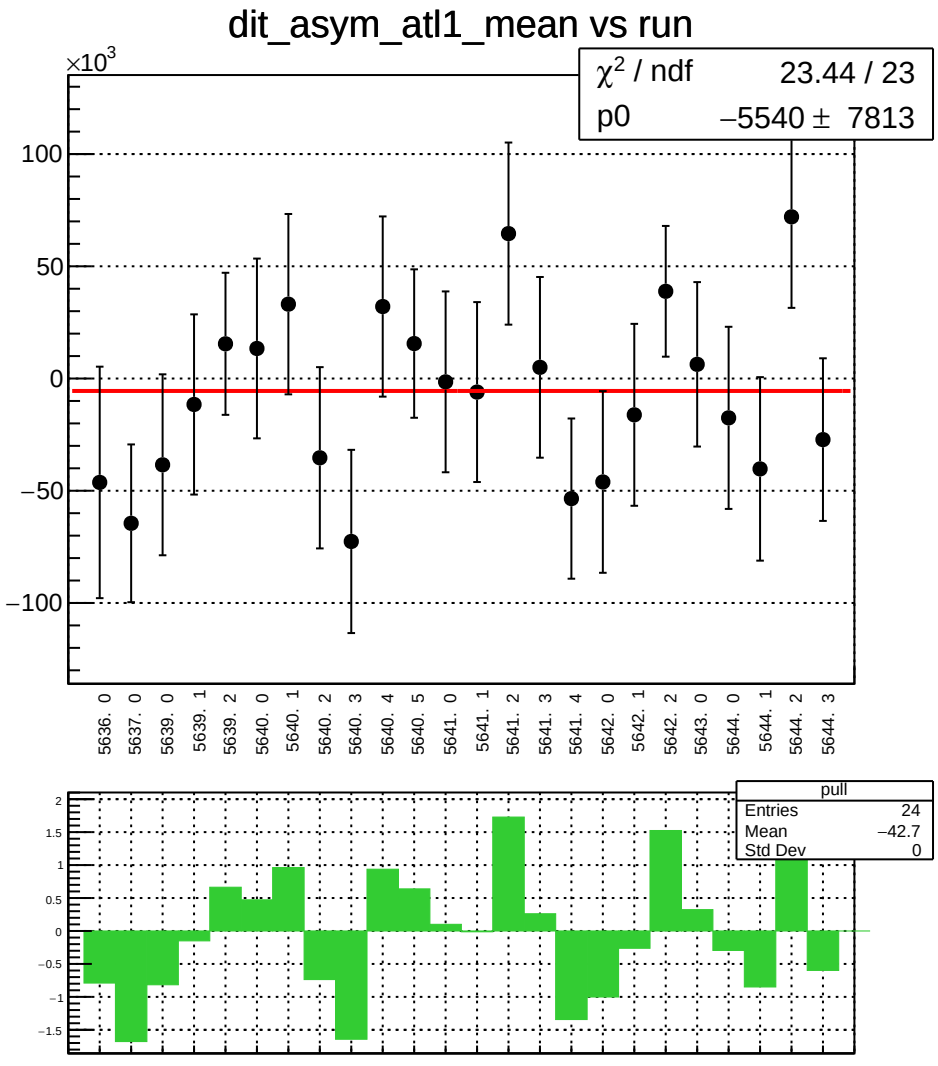

asym_atl1_cor_correction_rms vs run
χ² / ndf 2397 / 23
p0 6525 ± 9.419
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

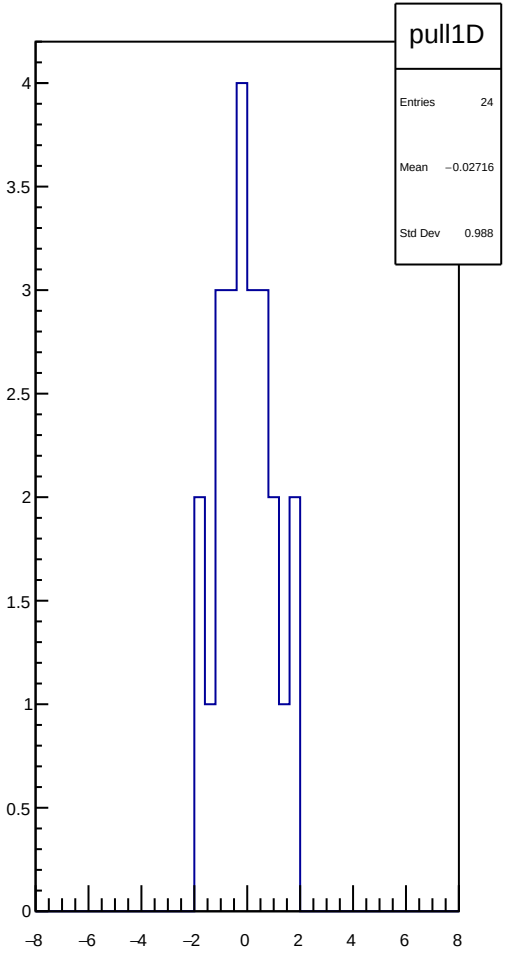

eigen_cor_asym_atl1_mean vs run
χ² / ndf 22.84 / 23
p0 −4448 ± 7773
×10³
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −42.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.02571
Std Dev 0.9753
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

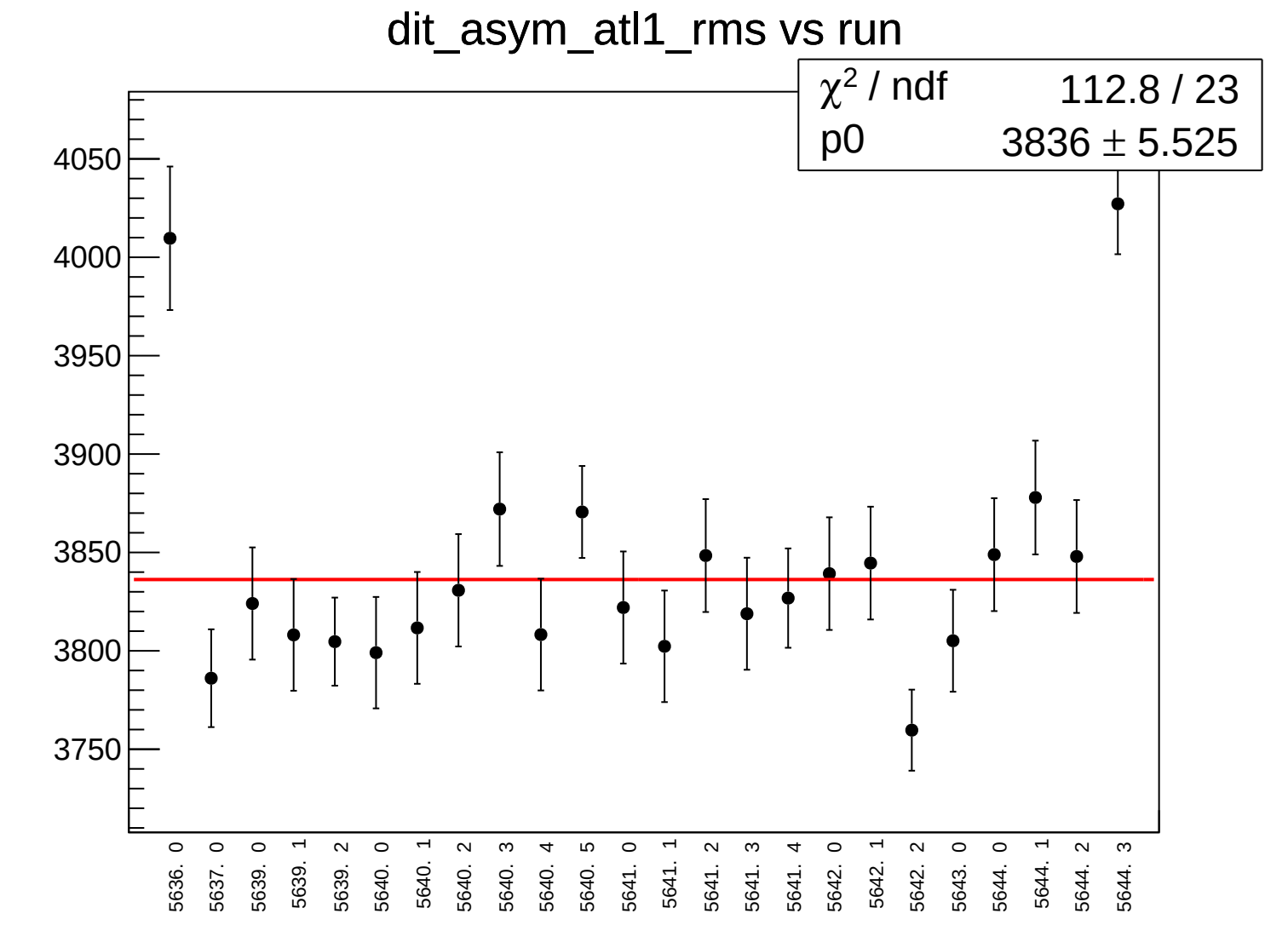

eigen_cor_asym_atl1_rms vs run
χ² / ndf 125.2 / 23
p0 3816 ± 5.497
4050
4000
3950
3900
3850
3800
3750
3700
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

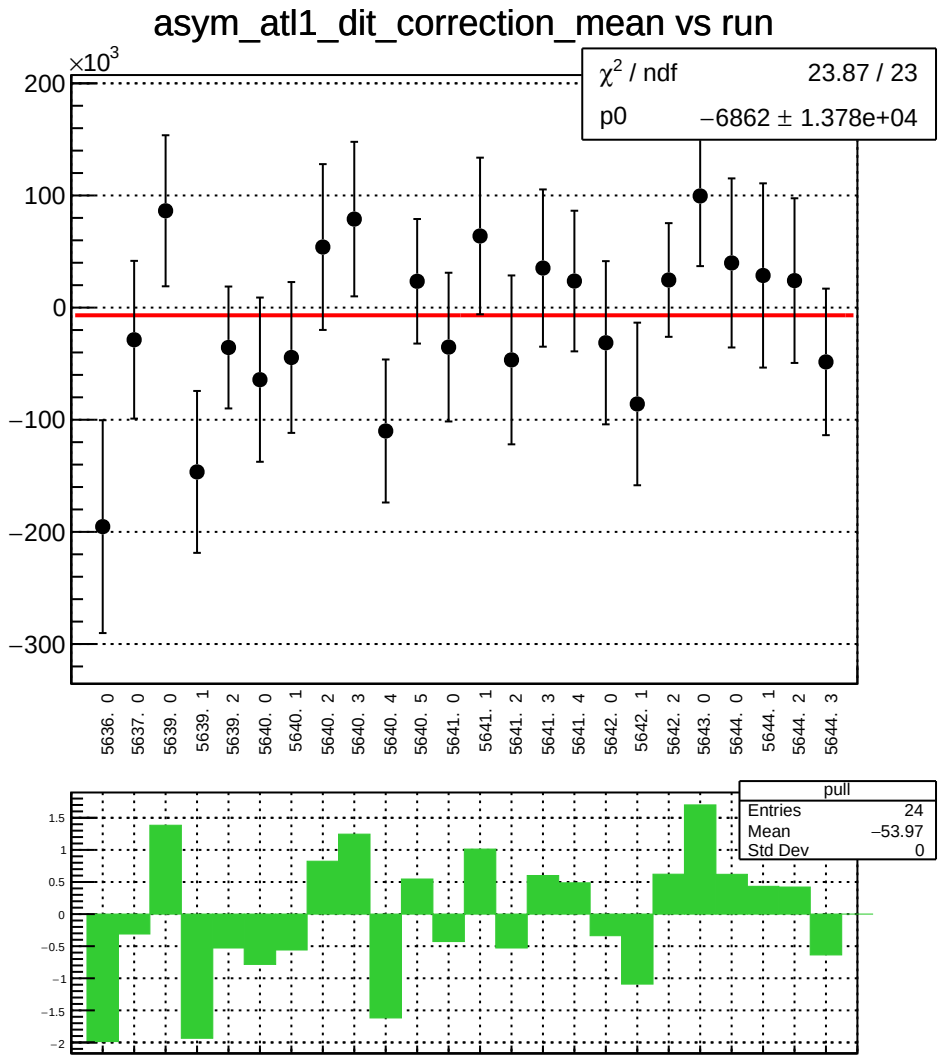

asym_atl1_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 24.3 / 23
p0 −5767 ± 1.332e+04
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −55.03
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.03498
Std Dev 1.006
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

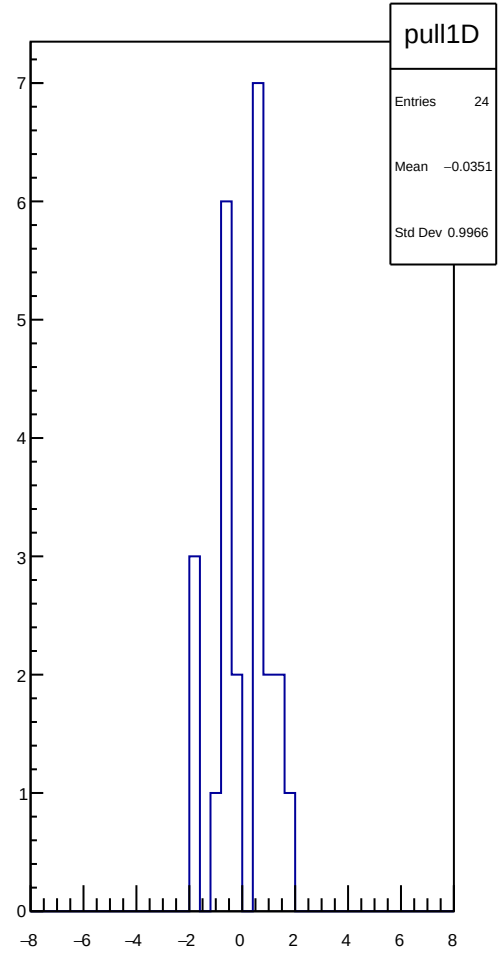

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 2397 / 23
p0 6525 ± 9.419
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

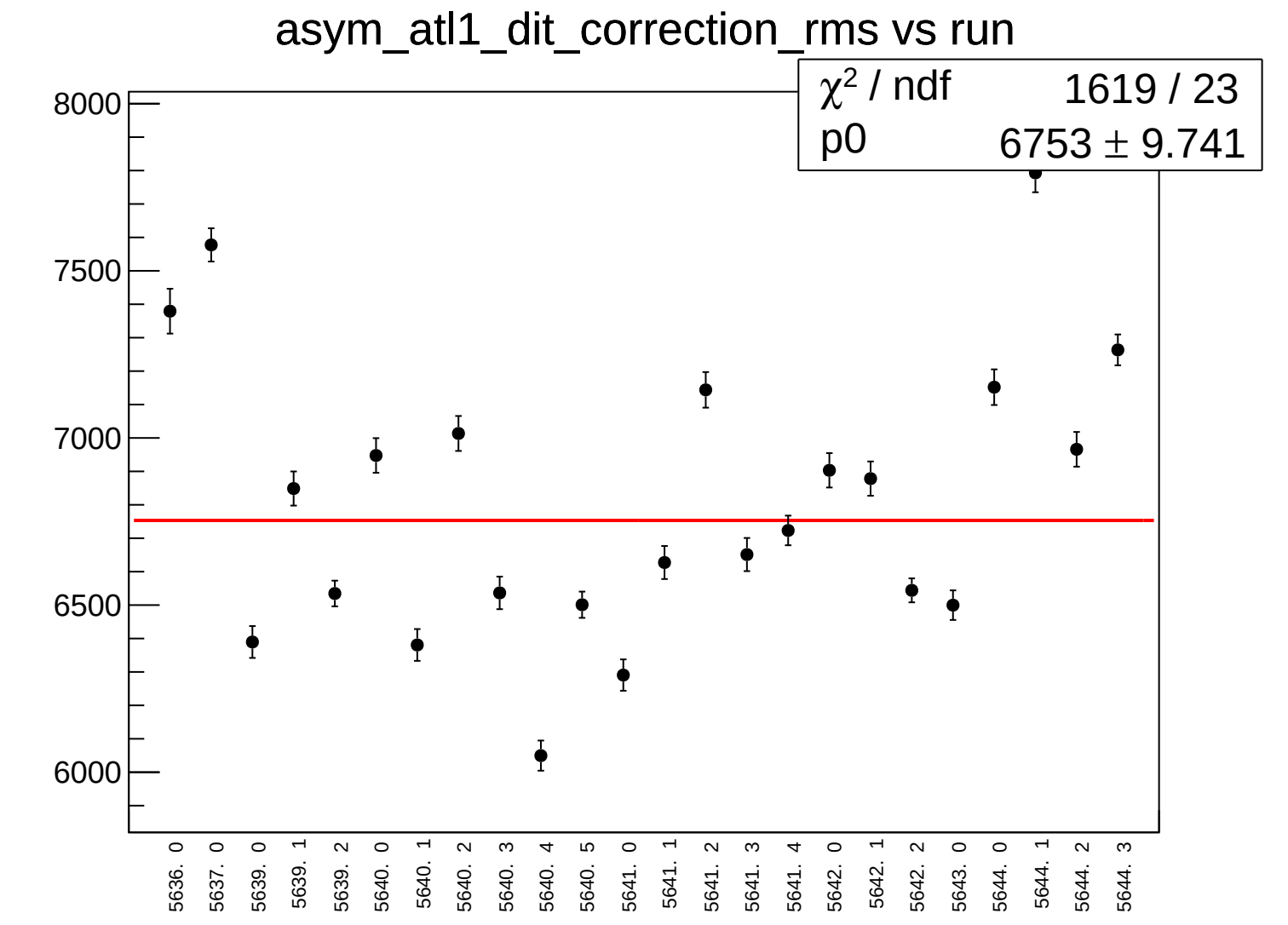

dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 23.44 / 23
p0 −5540 ± 7813
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −42.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

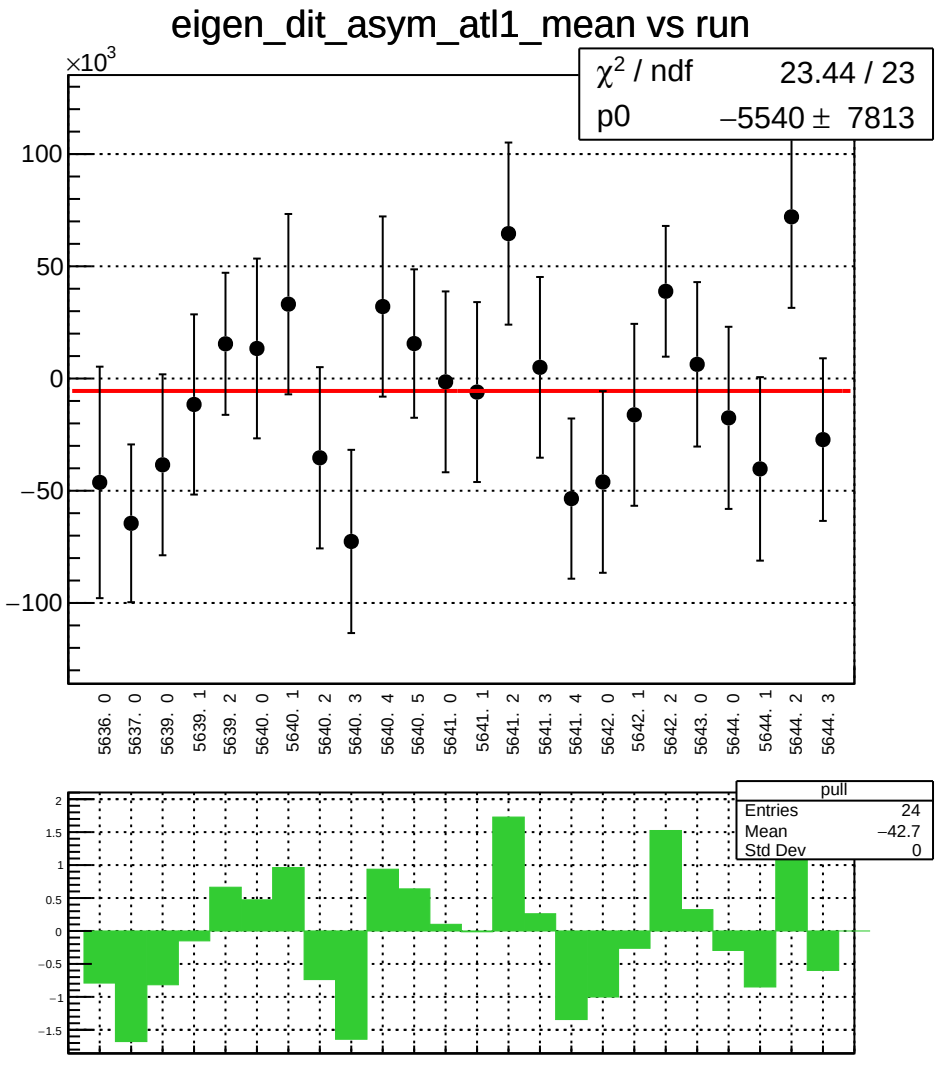

pull1D
Entries 24
Mean −0.02716
Std Dev 0.988
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

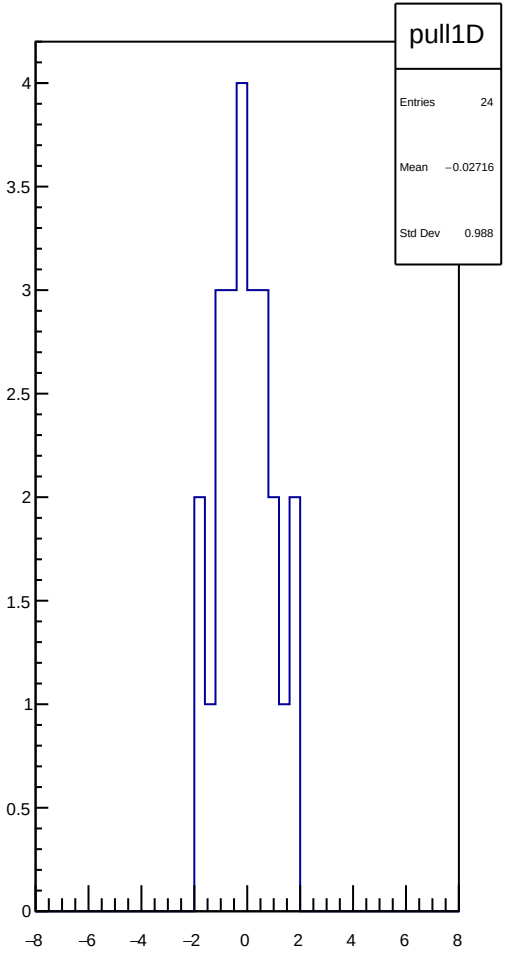

dit_asym_atl1_rms vs run
χ² / ndf 112.8 / 23
p0 3836 ± 5.525
4050
4000
3950
3900
3850
3800
3750
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

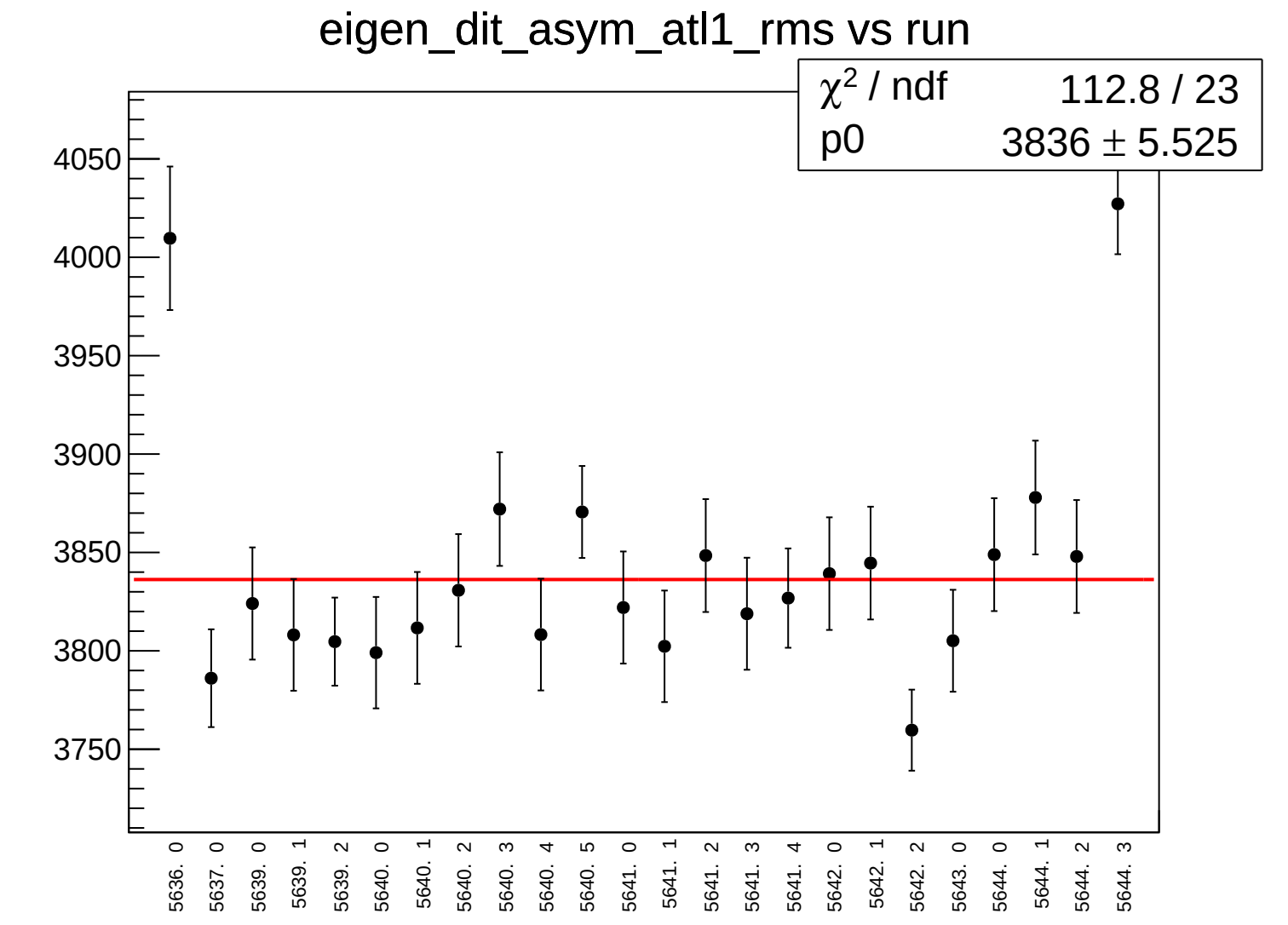

asym_atl1_dit_correction_mean vs run
×10^3
χ² / ndf 23.87 / 23
p0 −6862 ± 1.378e+04
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −53.97
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

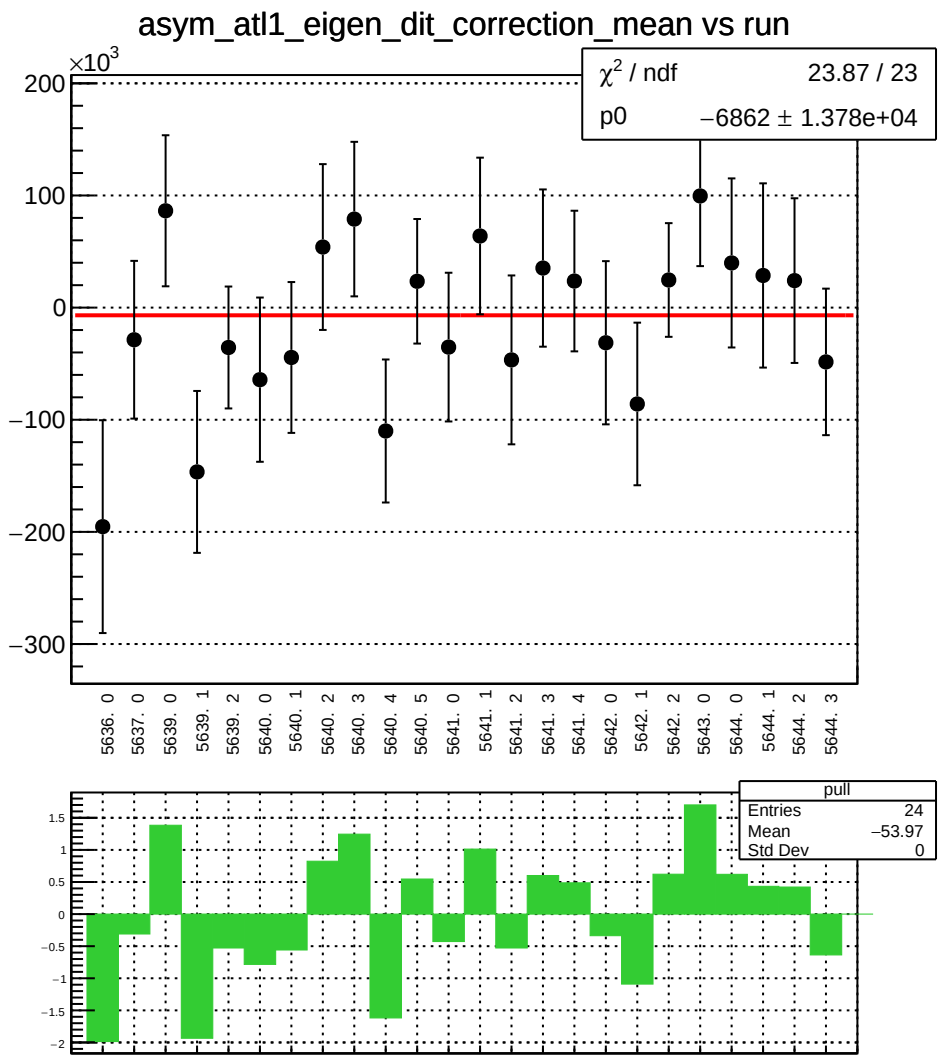

pull1D
Entries 24
Mean −0.0351
Std Dev 0.9966
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

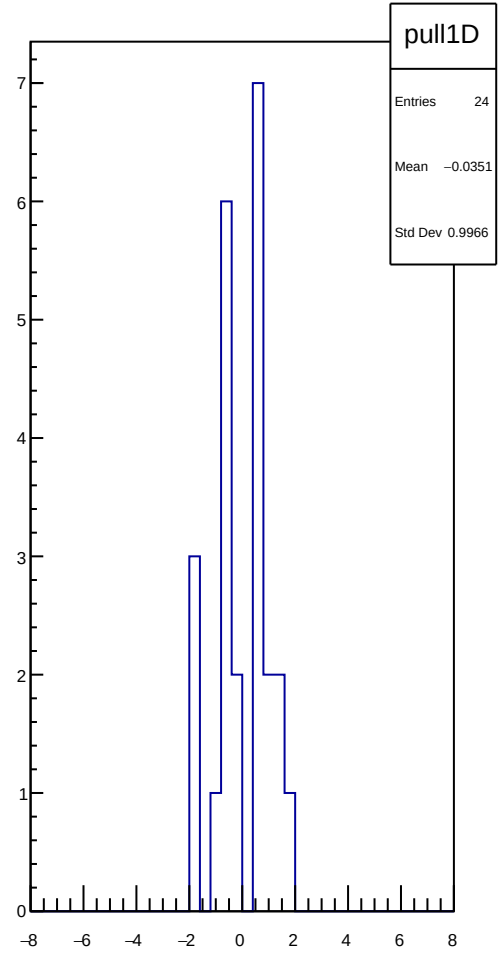

asym_atl1_dit_correction_rms vs run
χ² / ndf 1619 / 23
p0 6753 ± 9.741
8000
7500
7000
6500
6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

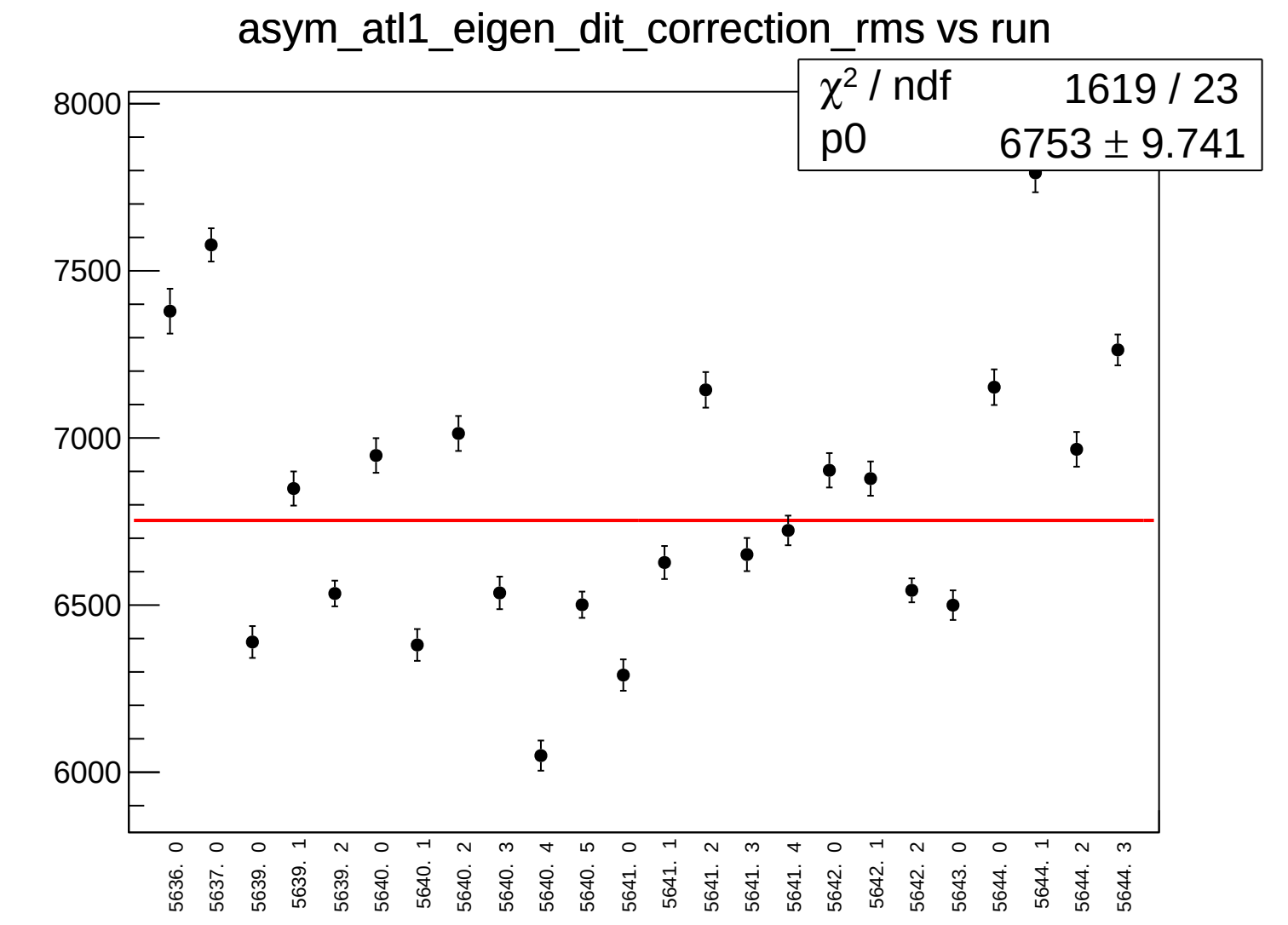

eigen_dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 23.44 / 23
p0 −5540 ± 7813
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −42.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

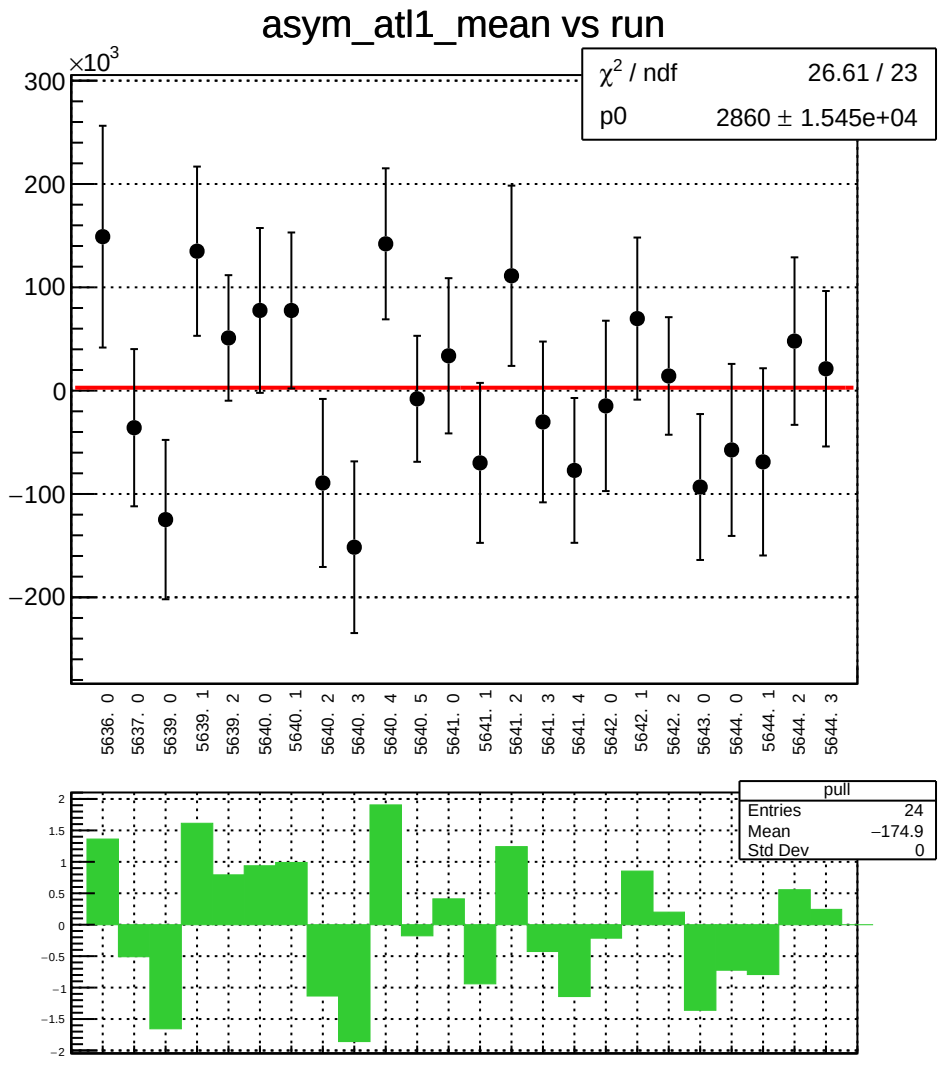

pull1D
Entries 24
Mean −0.02716
Std Dev 0.988
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

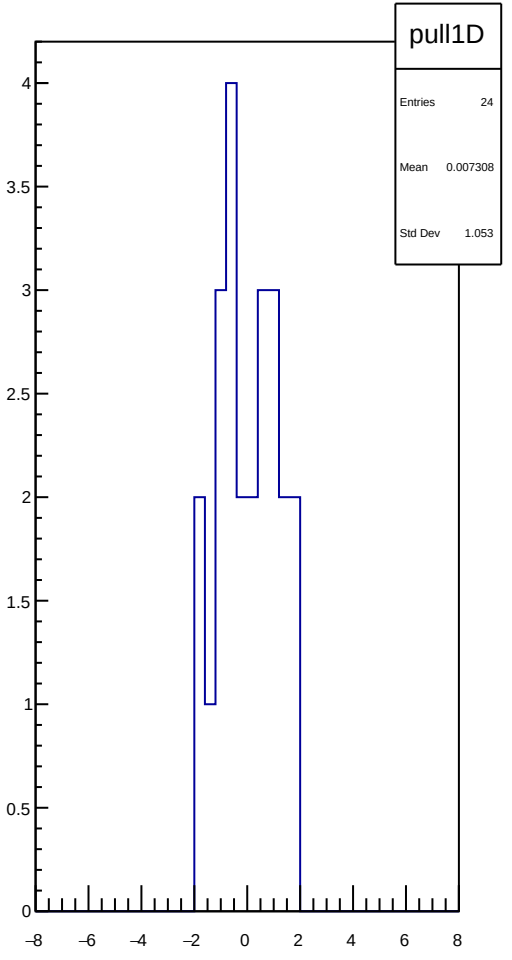

eigen_dit_asym_atl1_rms vs run
χ² / ndf 112.8 / 23
p0 3836 ± 5.525
4050
4000
3950
3900
3850
3800
3750
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

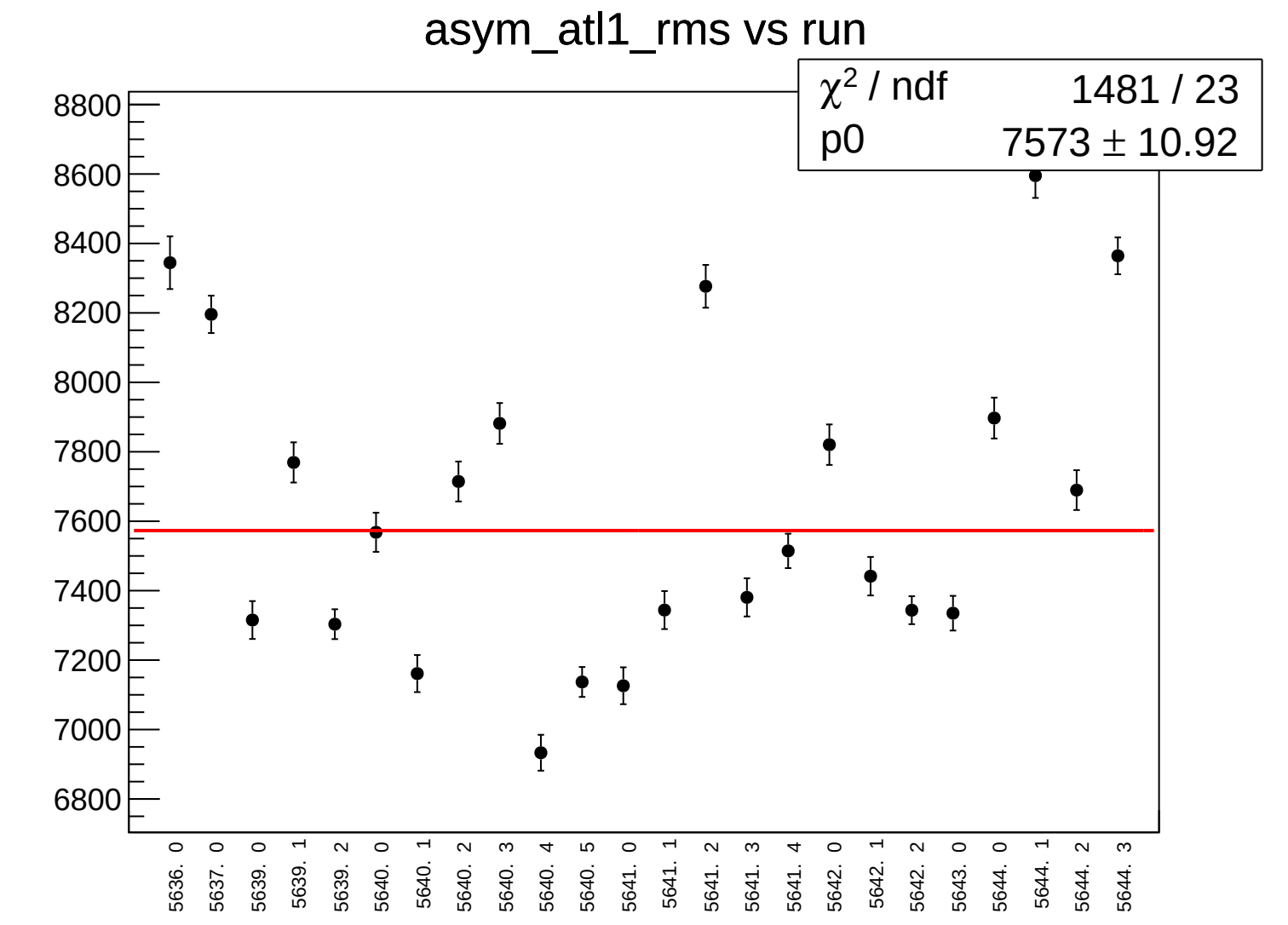

asym_atl1_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 23.87 / 23
p0 −6862 ± 1.378e+04
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −53.97
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

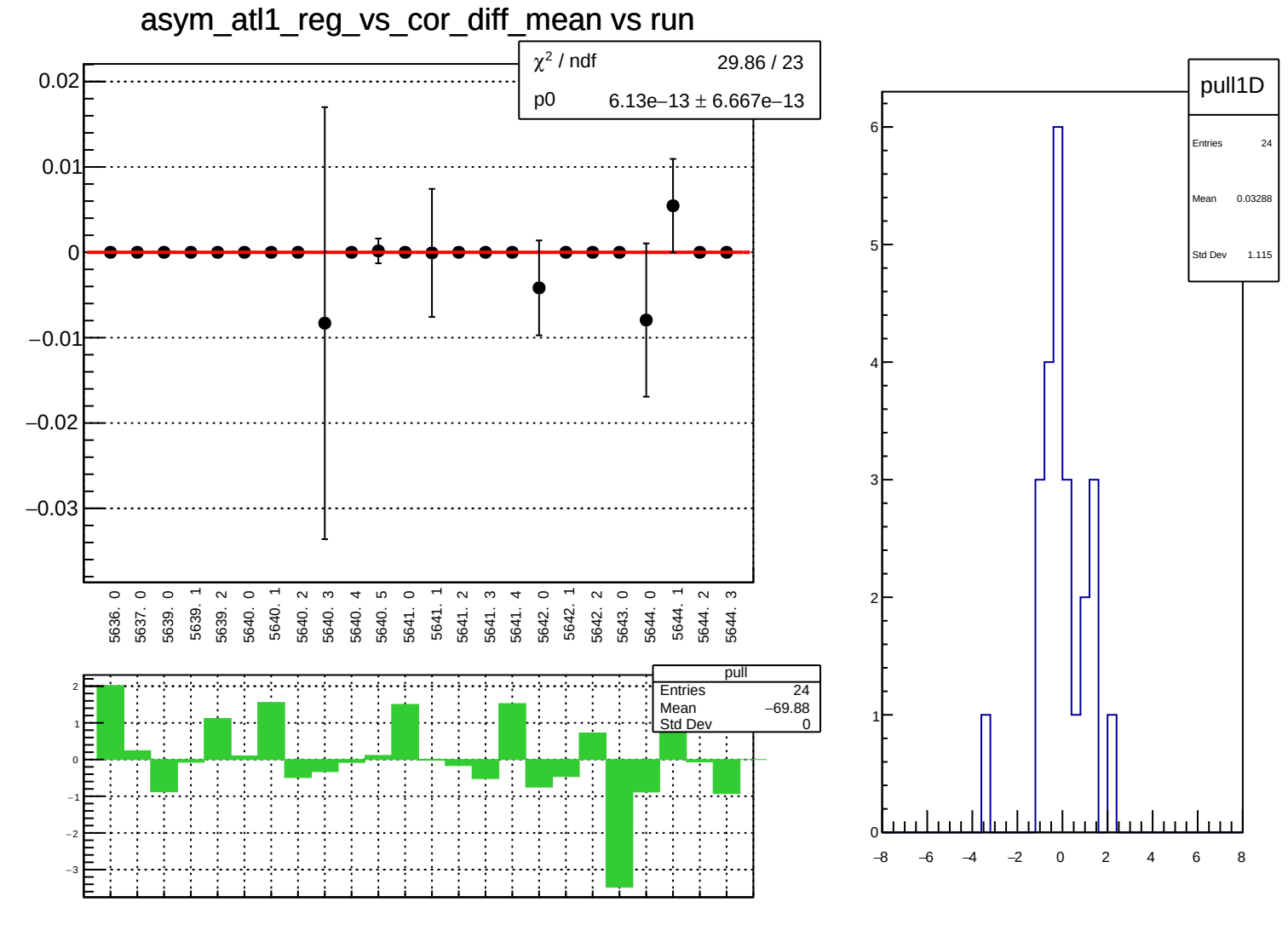

pull1D
Entries 24
Mean −0.0351
Std Dev 0.9966
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

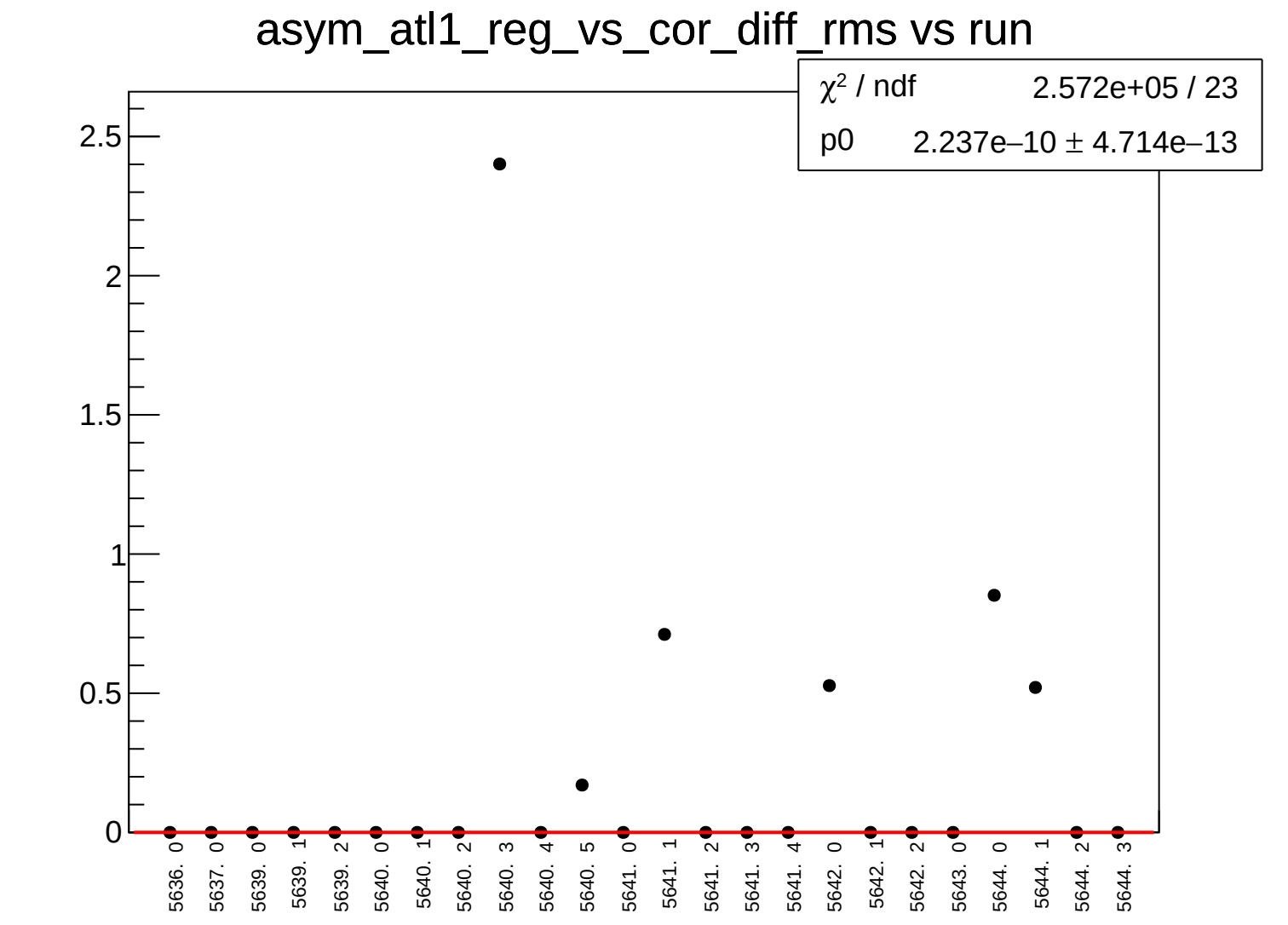

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 1619 / 23
p0 6753 ± 9.741
8000
7500
7000
6500
6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

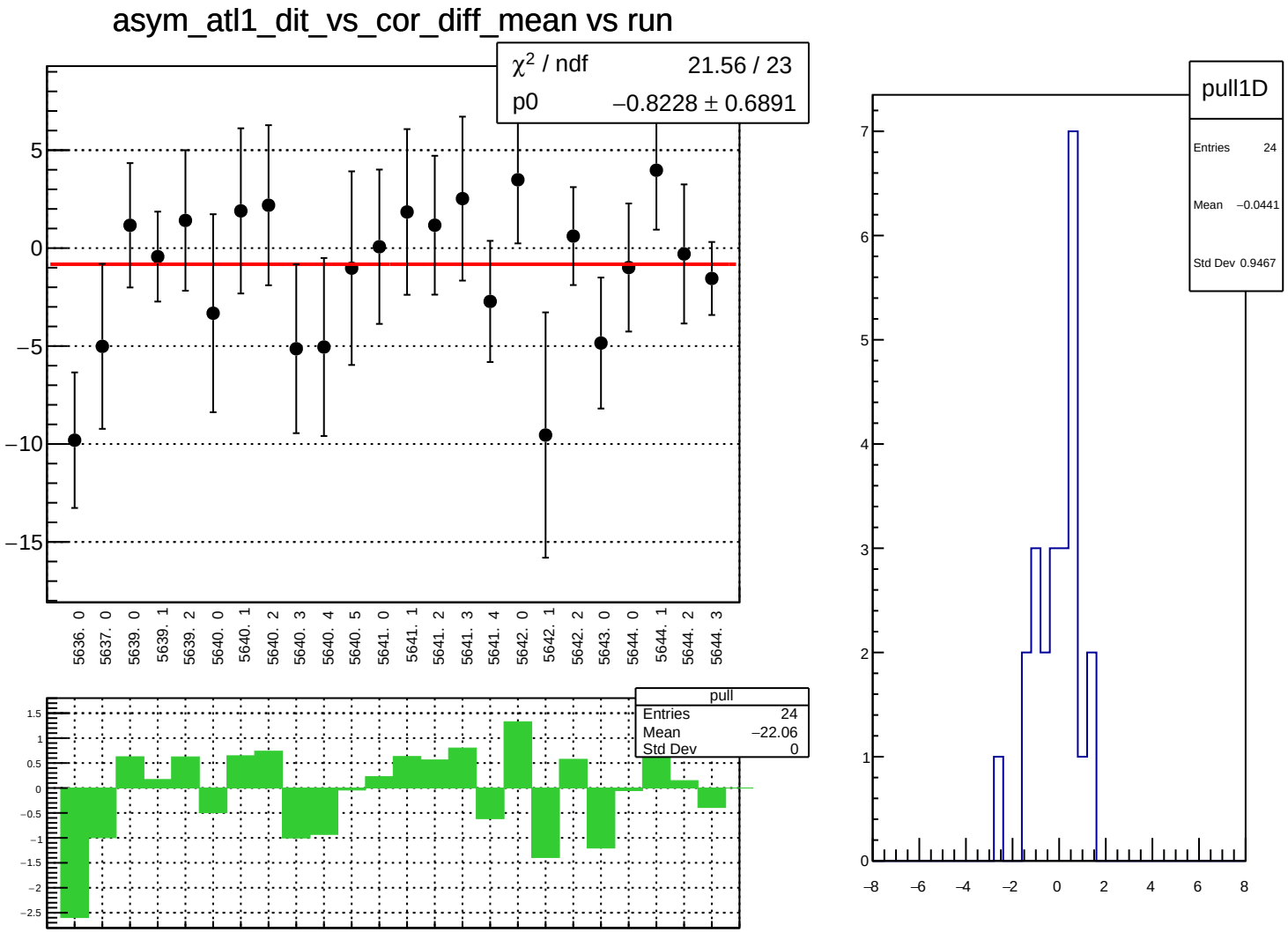

asym_atl1_mean vs run
×10^3
χ² / ndf 26.61 / 23
p0 2860 ± 1.545e+04
300
200
100
0
−100
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −174.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

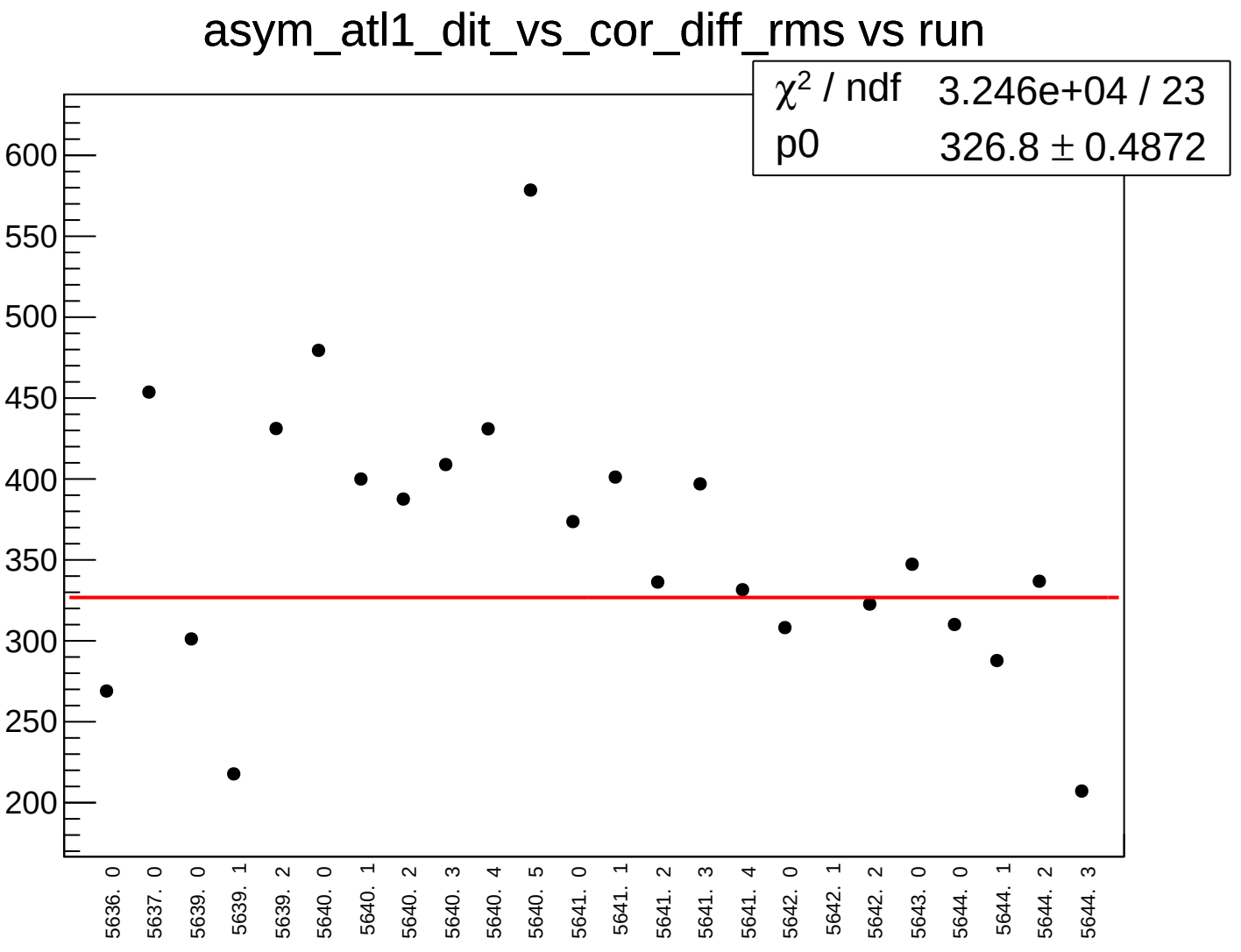

pull1D
Entries 24
Mean 0.007308
Std Dev 1.053
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

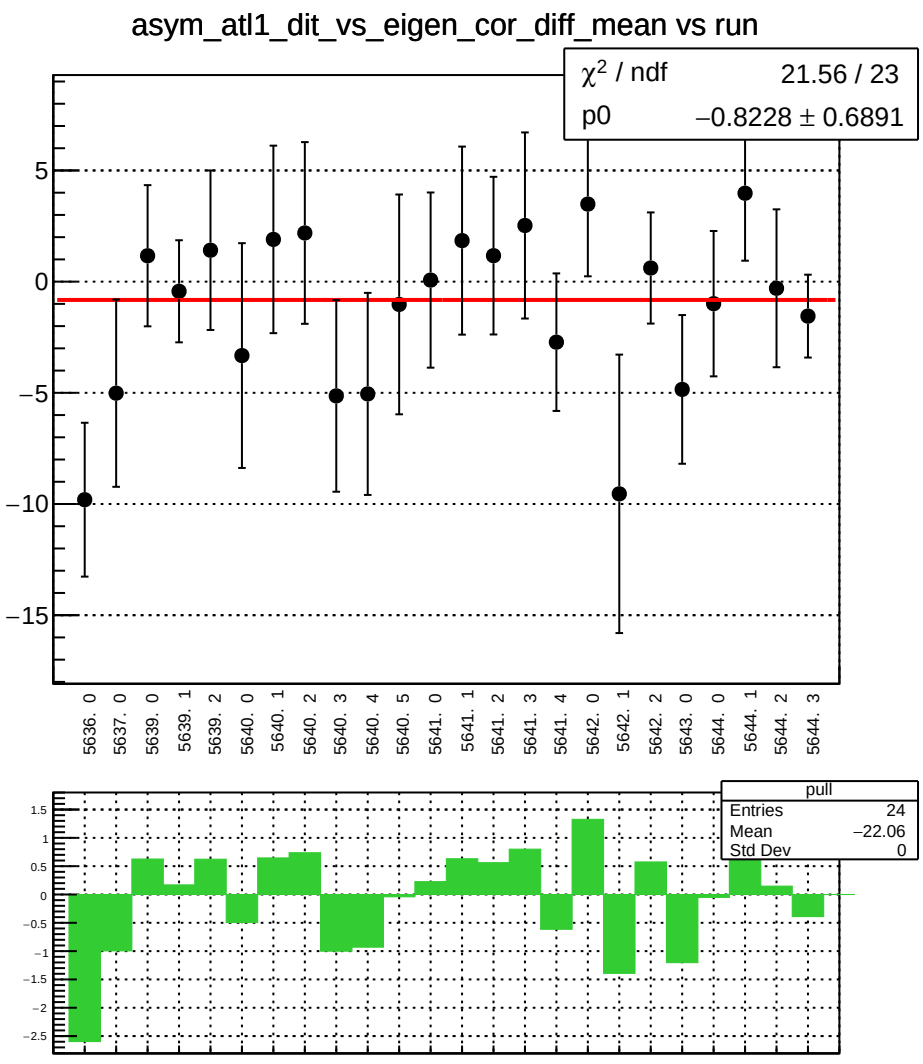

asym_atl1_rms vs run
χ² / ndf 1481 / 23
p0 7573 ± 10.92
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

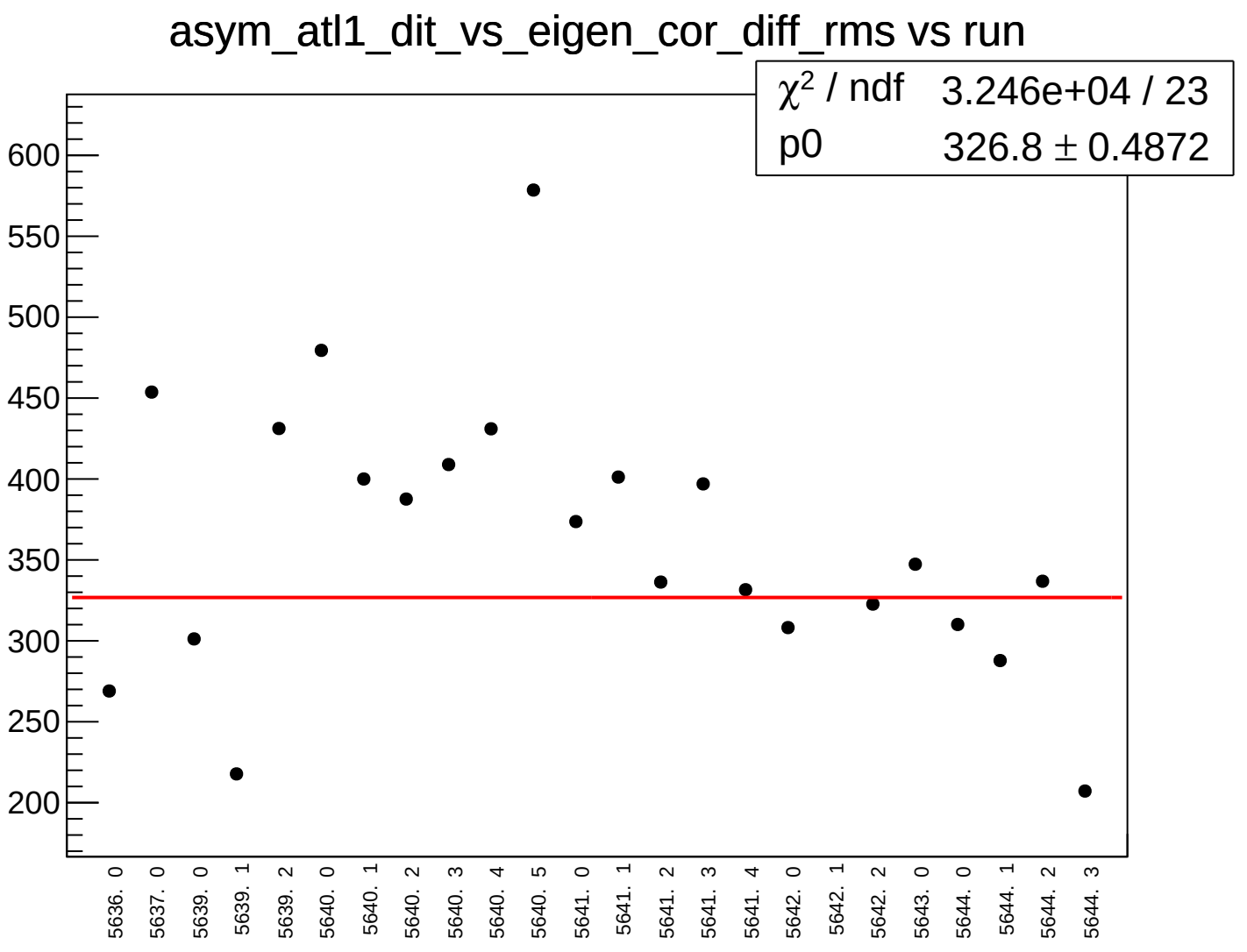

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 29.86 / 23
p0 6.13e−13 ± 6.667e−13
0.02
0.01
0
−0.01
−0.02
−0.03
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −69.88
Std Dev 0
pull1D
Entries 24
Mean 0.03288
Std Dev 1.115


asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 2.572e+05 / 23
p0 2.237e−10 ± 4.714e−13
2.5
2
1.5
1
0.5
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 21.56 / 23
p0 −0.8228 ± 0.6891
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −22.06
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean −0.0441
Std Dev 0.9467
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 3.246e+04 / 23
p0 326.8 ± 0.4872
600
550
500
450
400
350
300
250
200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 21.56 / 23
p0 −0.8228 ± 0.6891
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −22.06
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean −0.0441
Std Dev 0.9467
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.246e+04 / 23
p0 326.8 ± 0.4872
600
550
500
450
400
350
300
250
200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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5642. 1
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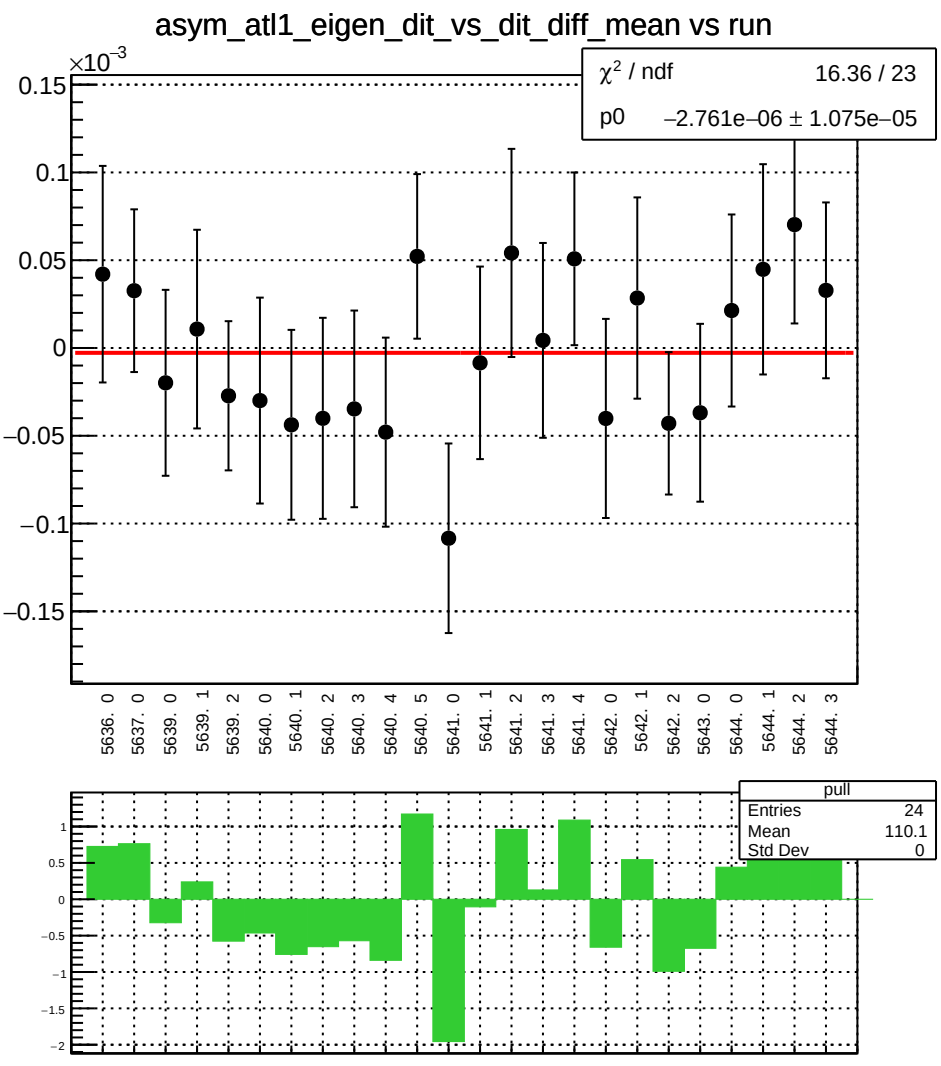
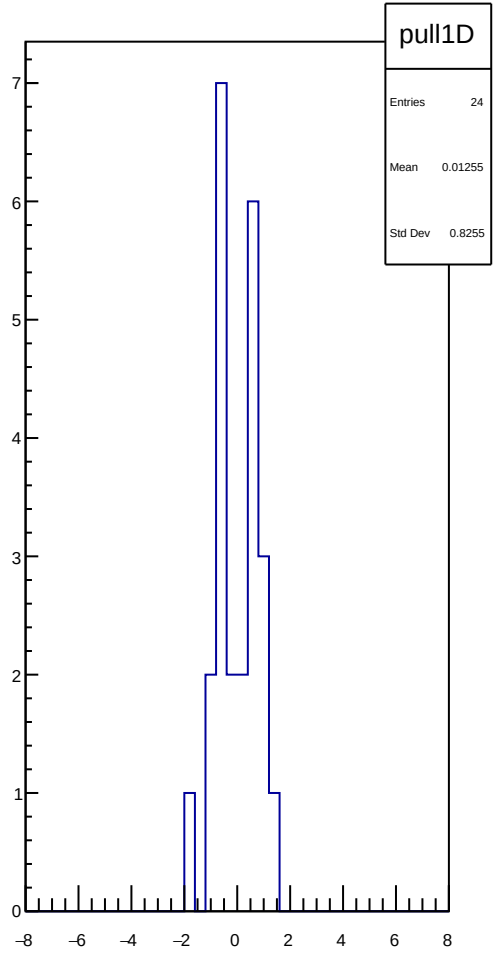
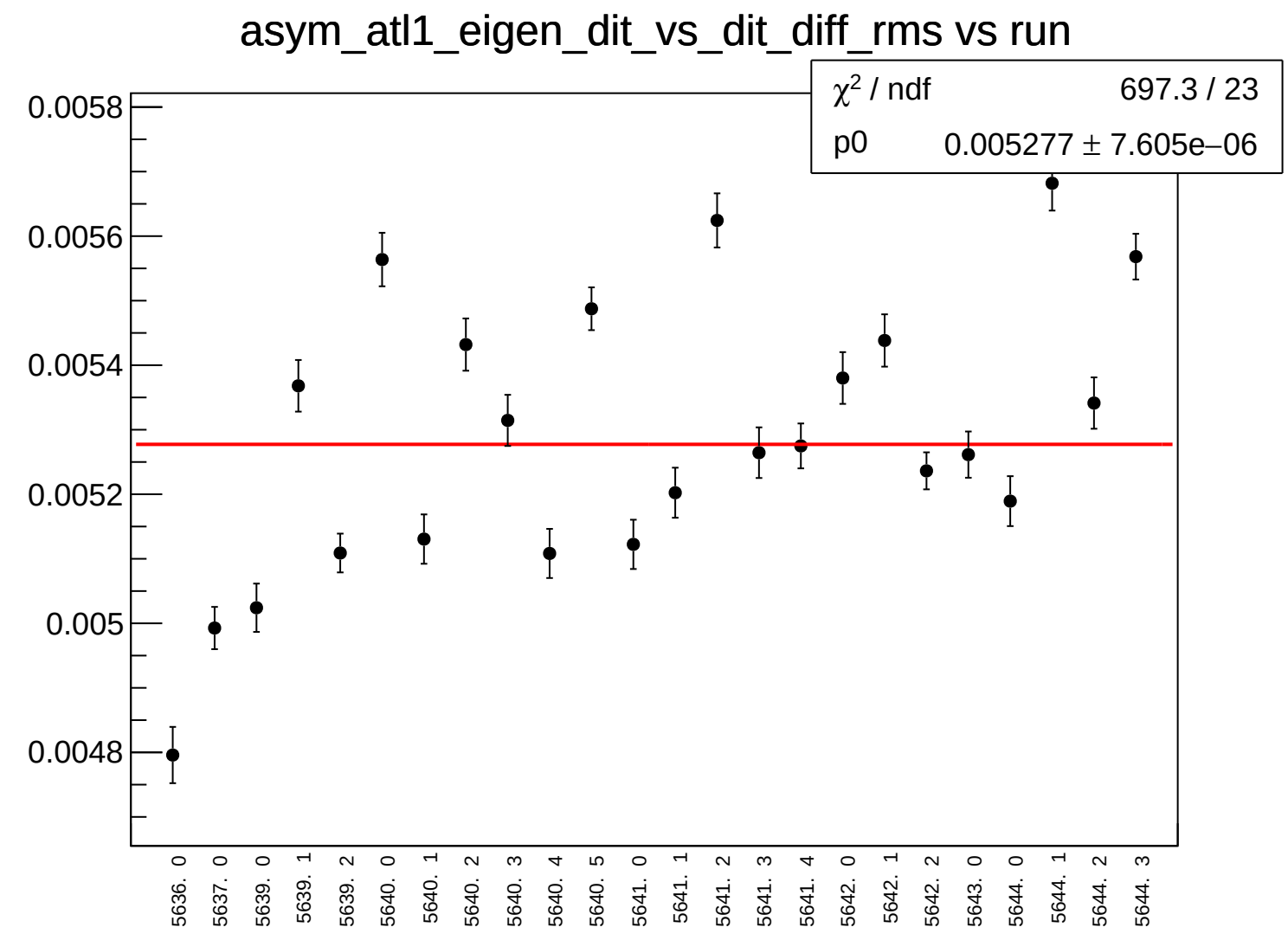
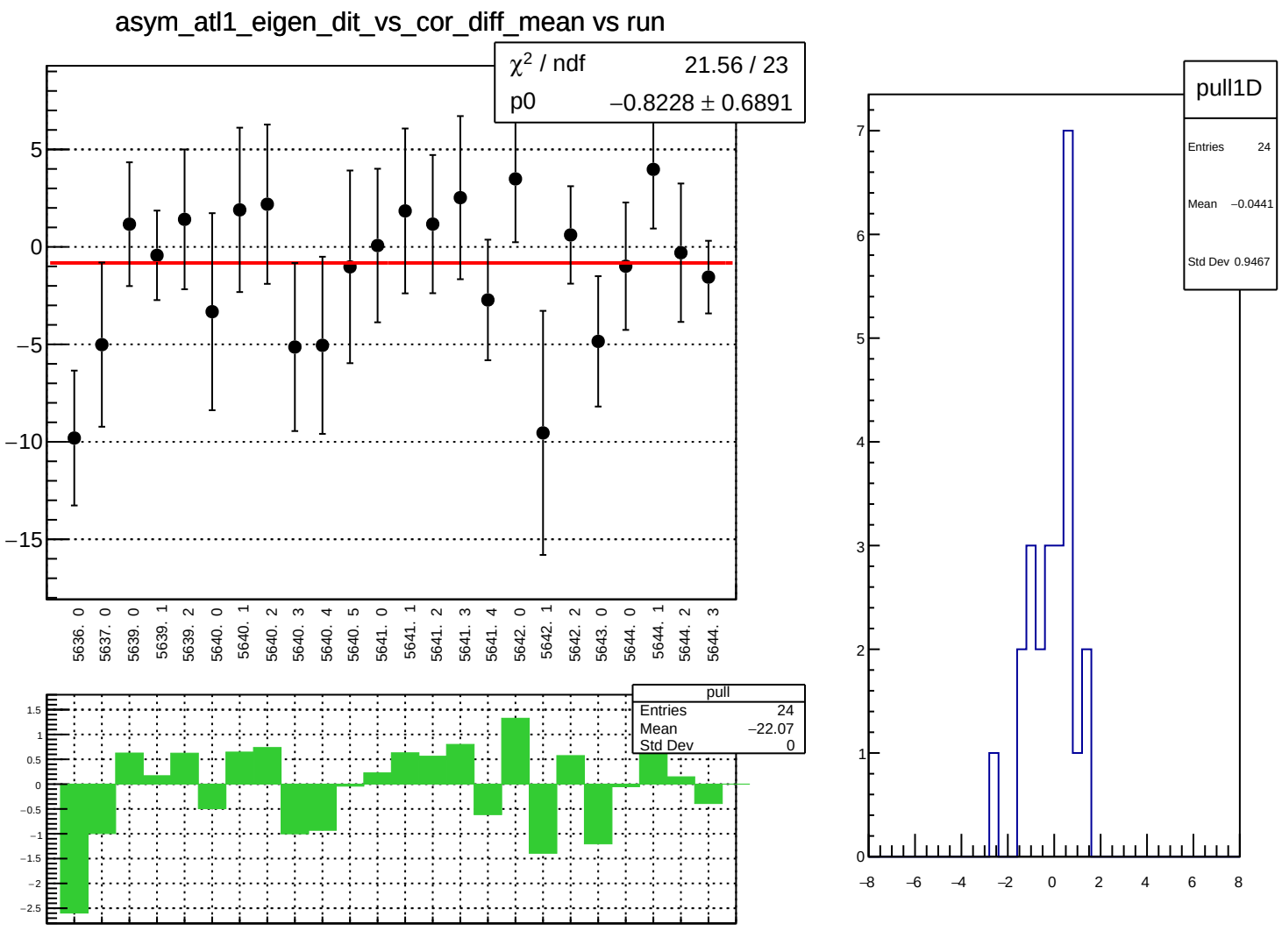
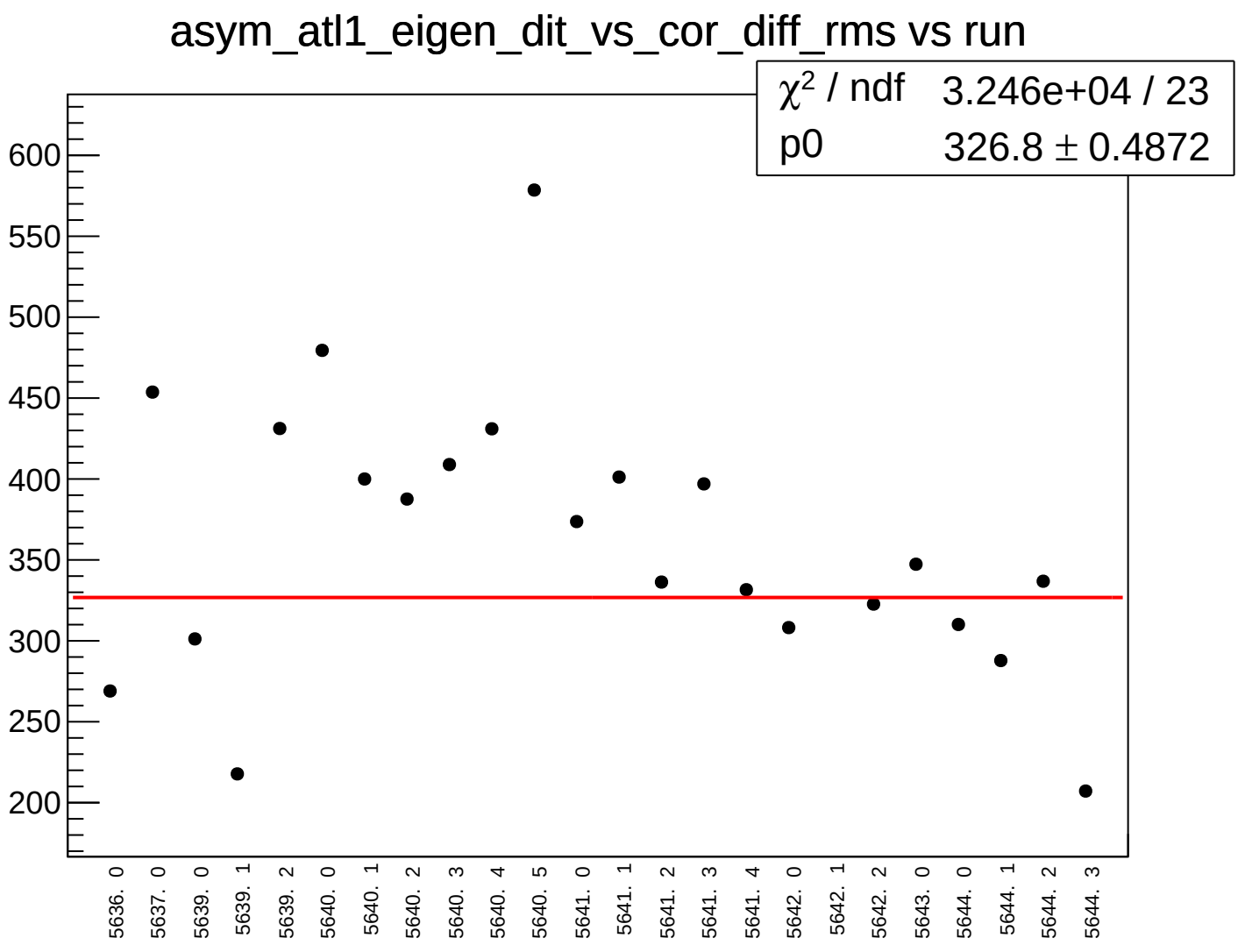
5644. 0
5644. 1
5644. 2
5644. 3

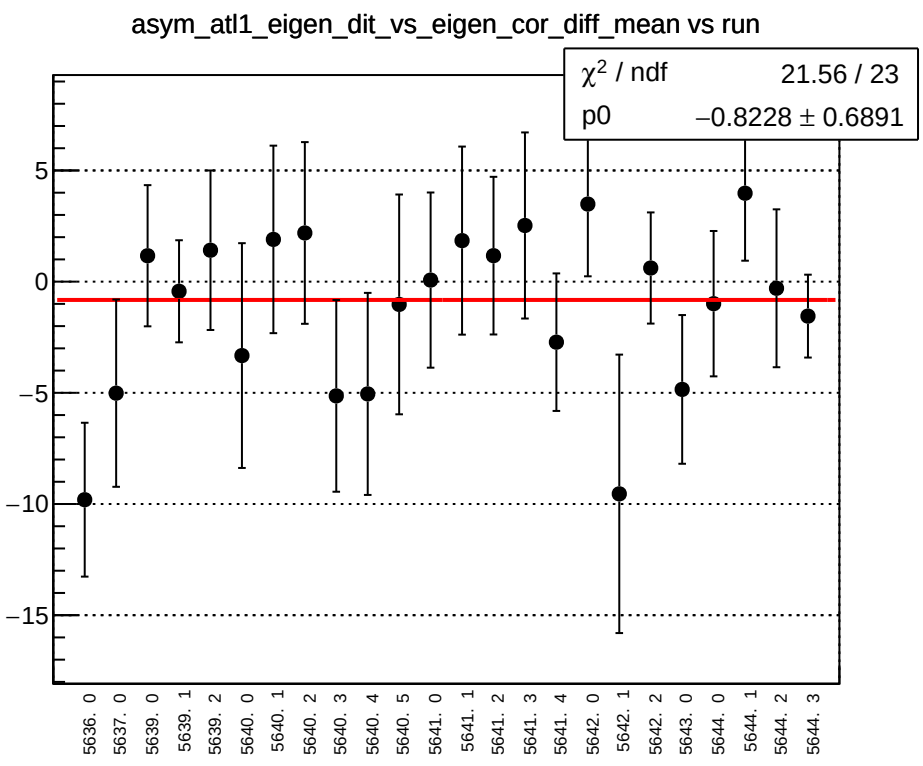

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 16.36 / 23
p0 −2.761e−06 ± 1.075e−05
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 110.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

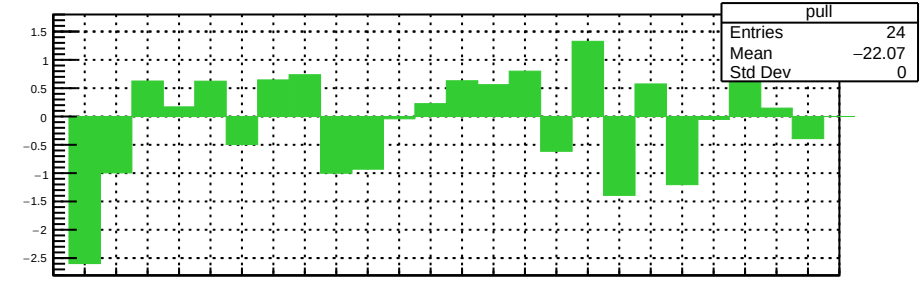

pull1D
Entries 24
Mean 0.01255
Std Dev 0.8255
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

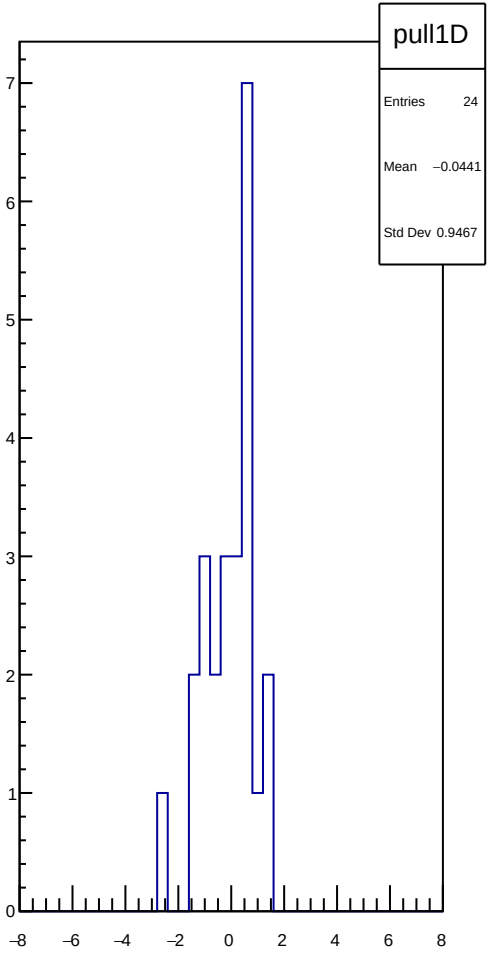

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 697.3 / 23
p0 0.005277 ± 7.605e−06
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

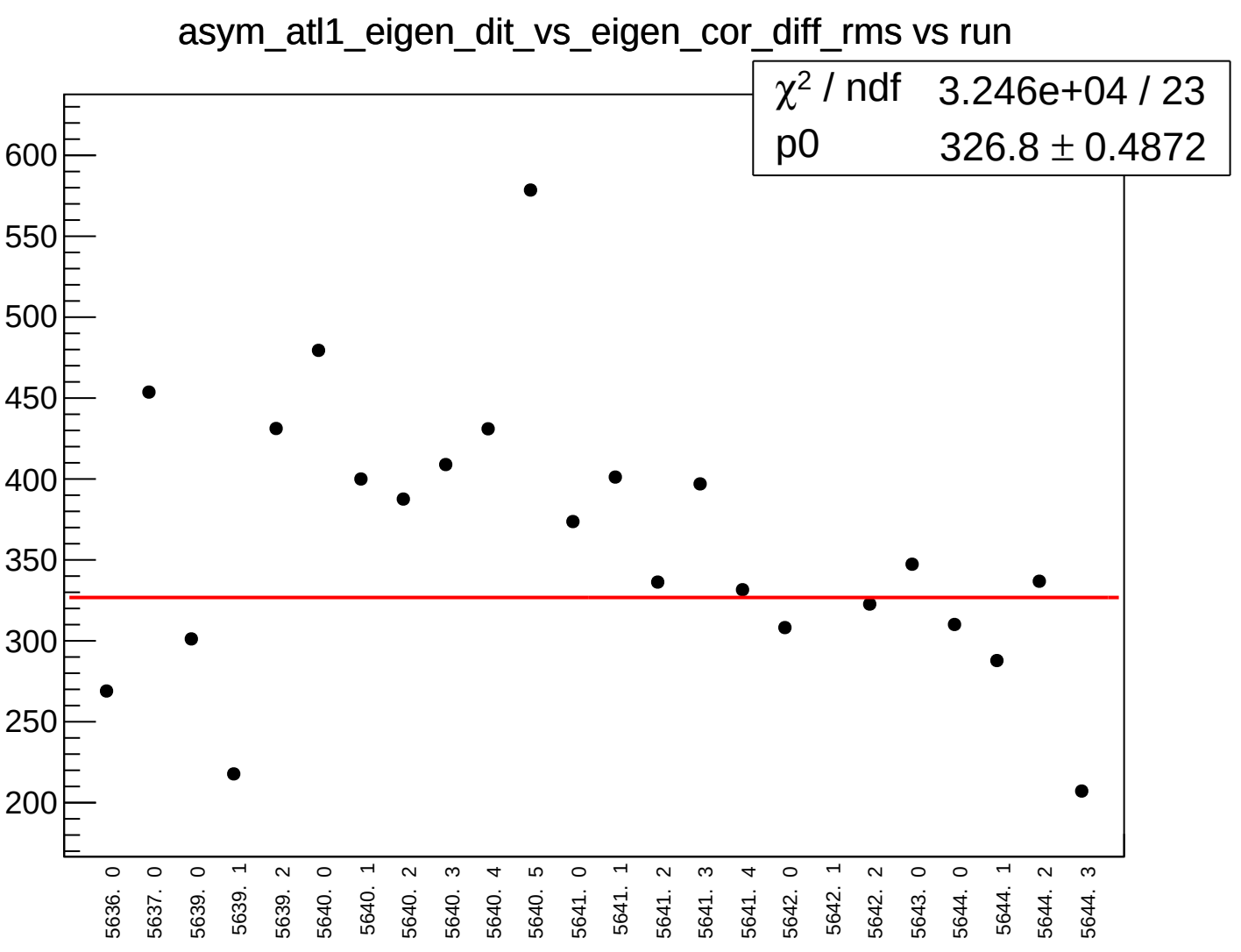

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 21.56 / 23
p0 −0.8228 ± 0.6891
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −22.07
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean −0.0441
Std Dev 0.9467
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

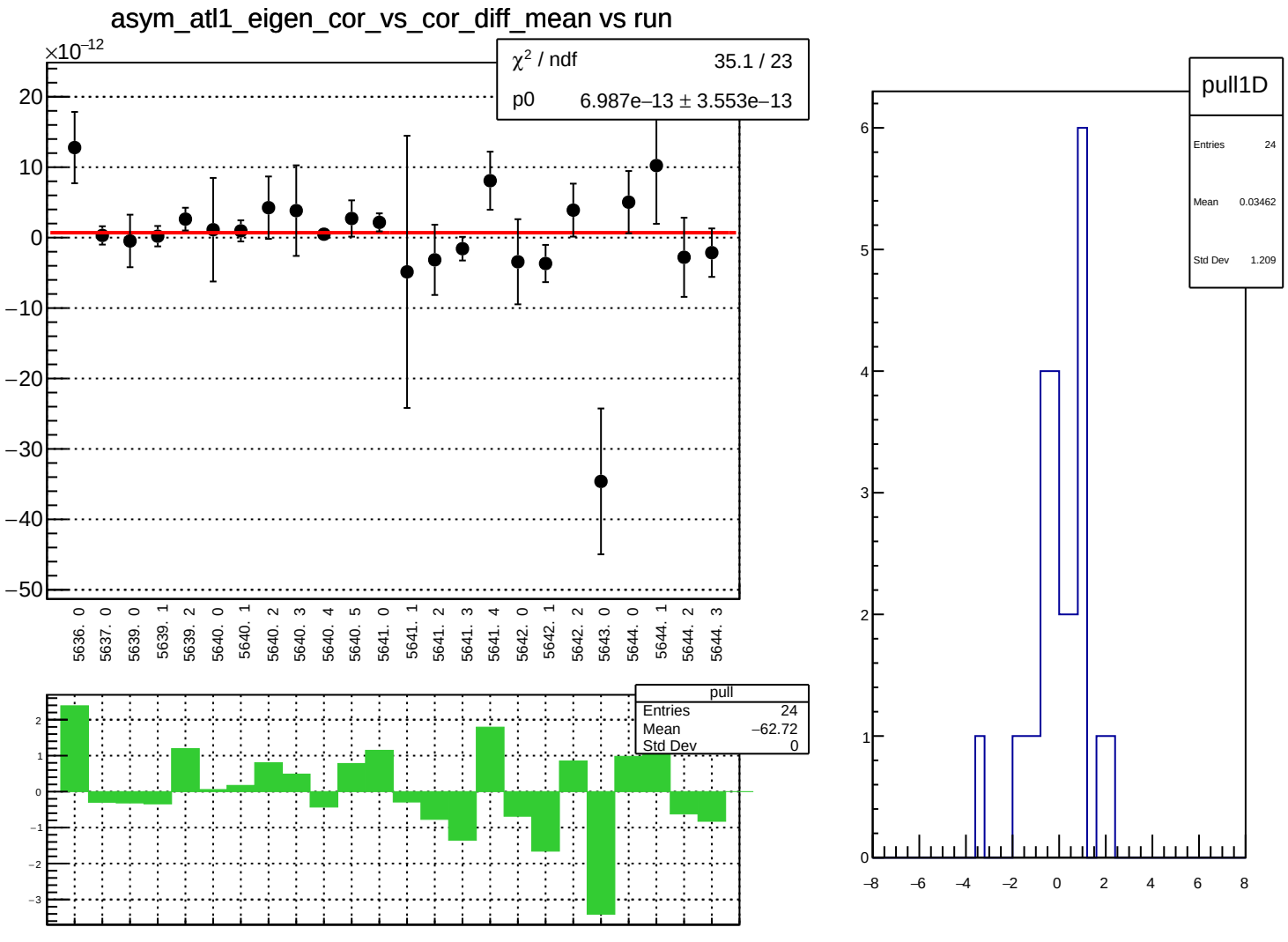

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.246e+04 / 23
p0 326.8 ± 0.4872
600
550
500
450
400
350
300
250
200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

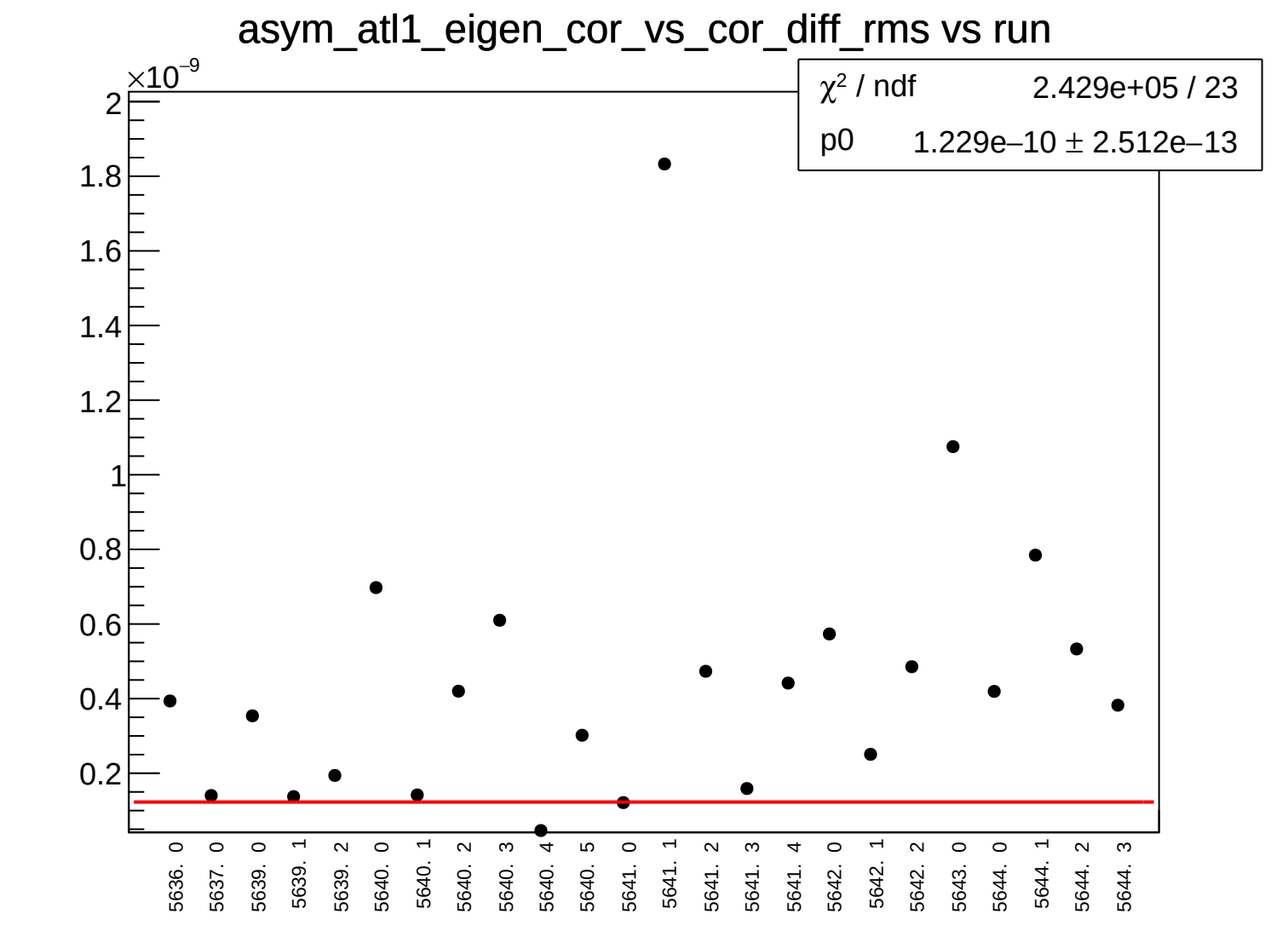

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 21.56 / 23
p0 −0.8228 ± 0.6891
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

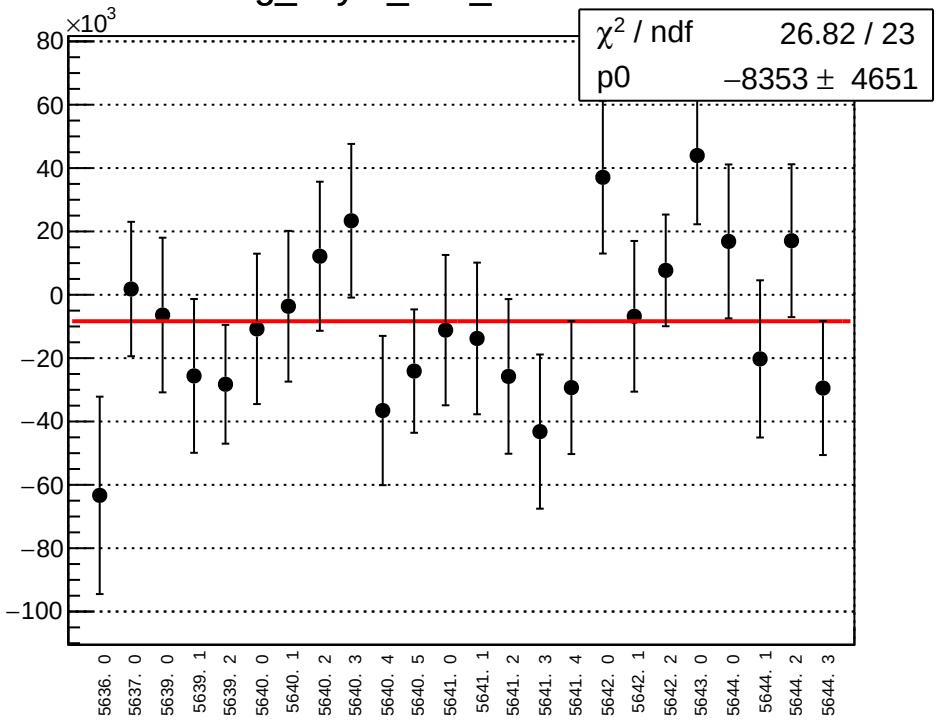

pull
Entries 24
Mean −22.07
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

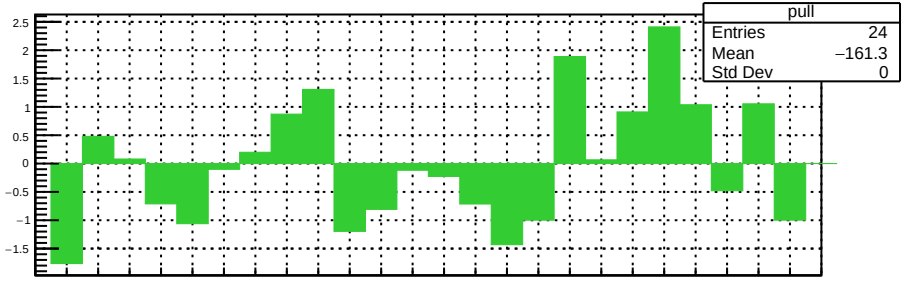

pull1D
Entries 24
Mean −0.0441
Std Dev 0.9467
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

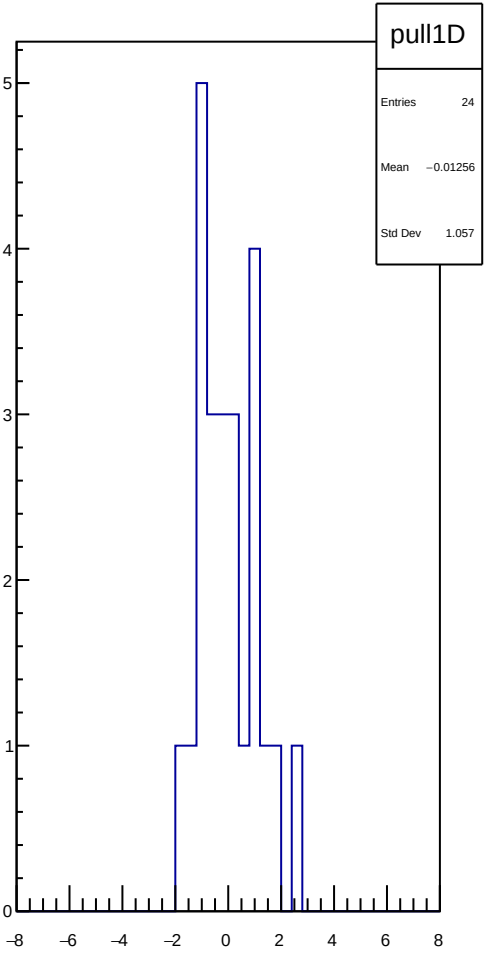

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.246e+04 / 23
p0 326.8 ± 0.4872
600
550
500
450
400
350
300
250
200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

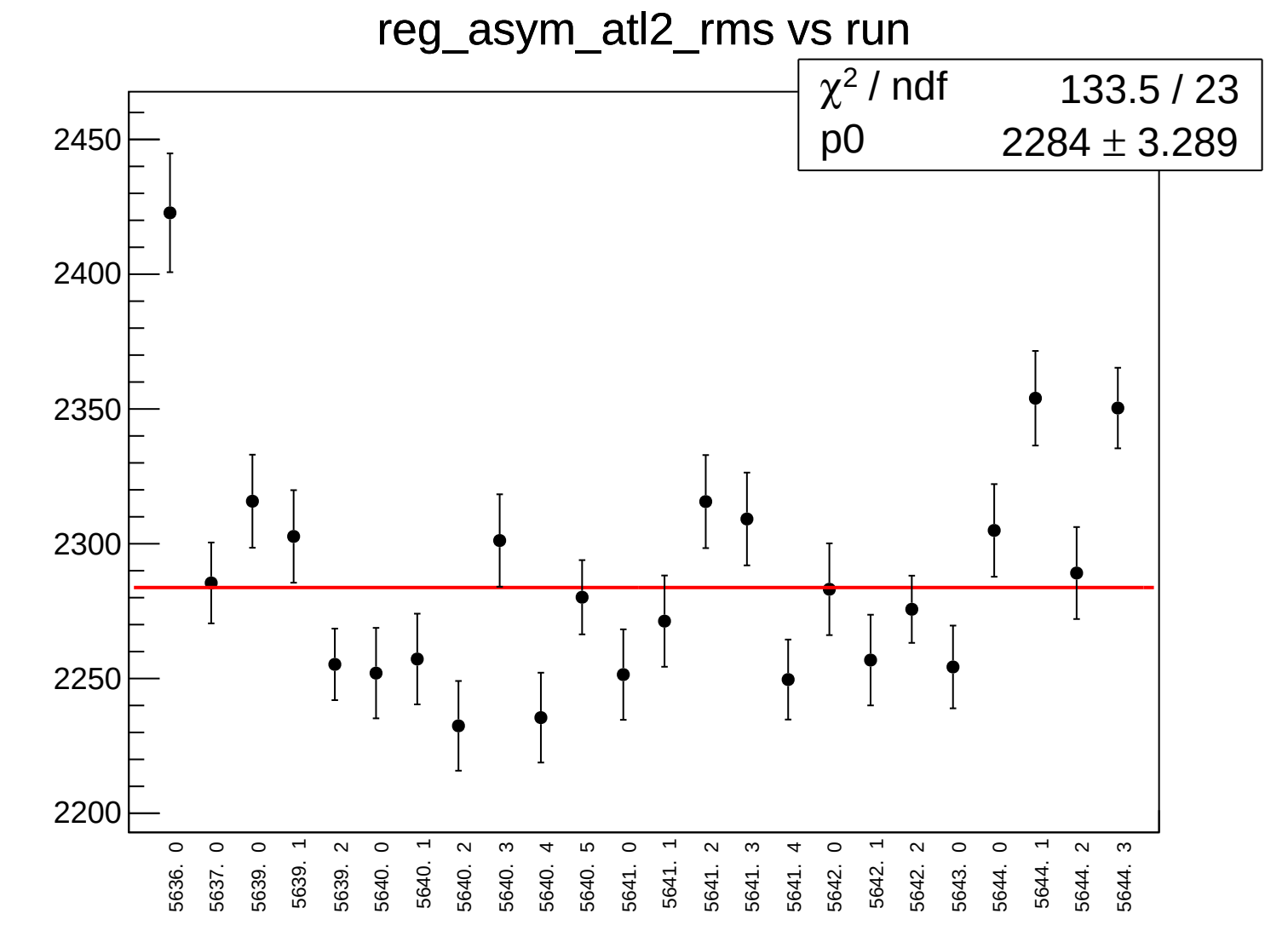

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 35.1 / 23
p0 6.987e−13 ± 3.553e−13
20
10
0
−10
−20
−30
−40
−50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −62.72
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean 0.03462
Std Dev 1.209
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

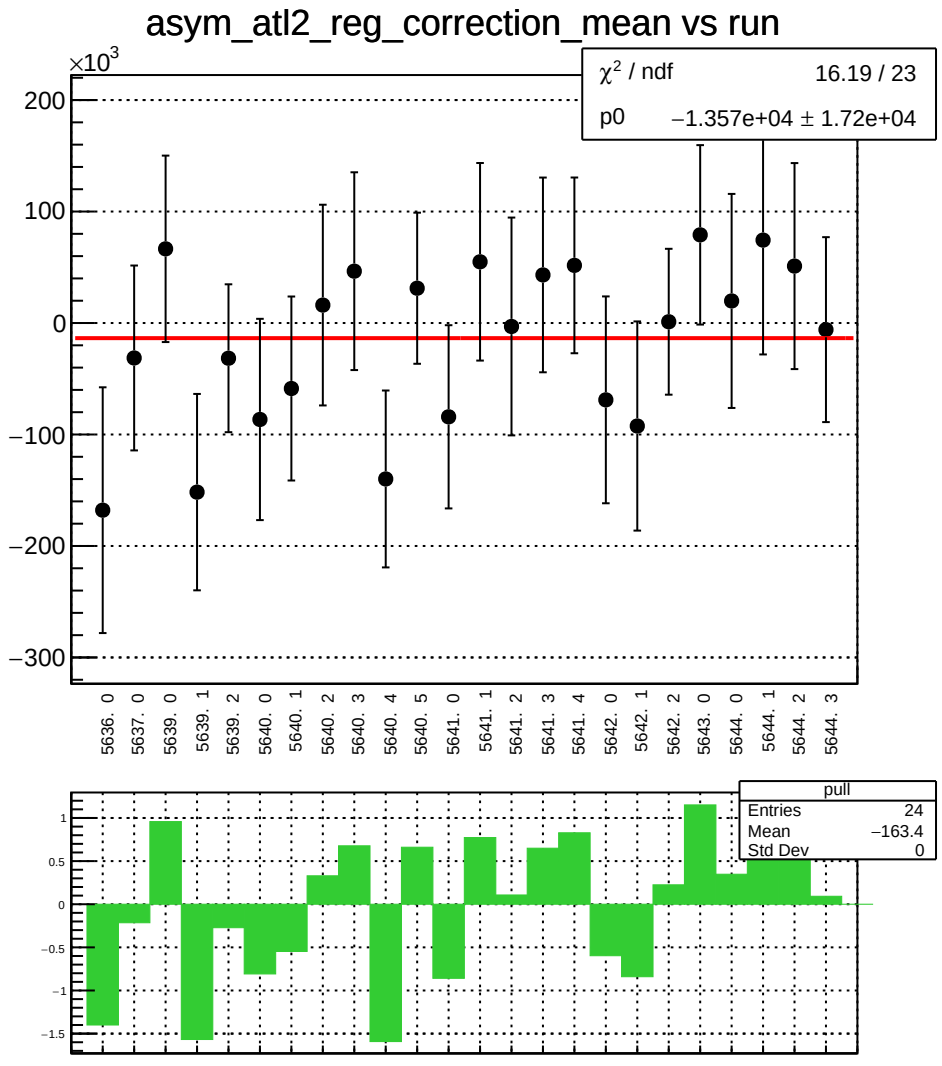

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.429e+05 / 23
p0 1.229e−10 ± 2.512e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

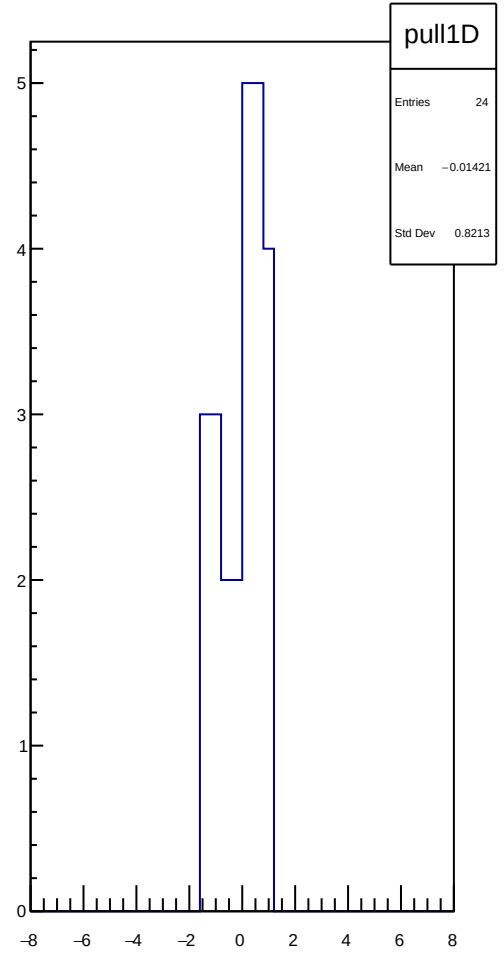

reg_asym_atl2_mean vs run
×10^3
χ^2 / ndf 26.82 / 23
p0 −8353 ± 4651
80
60
40
20
0
−20
−40
−60
−80
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

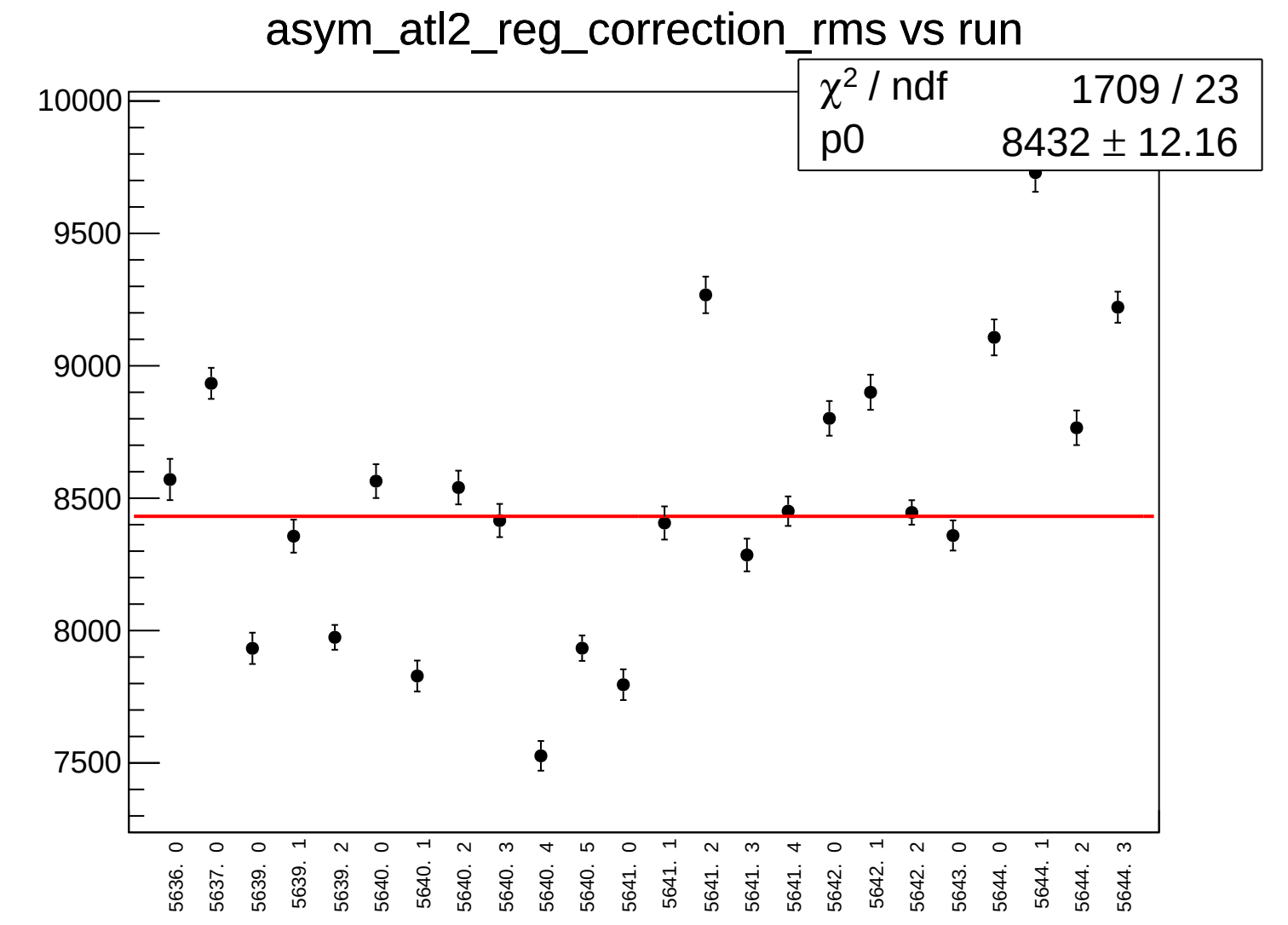

pull
Entries 24
Mean −161.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

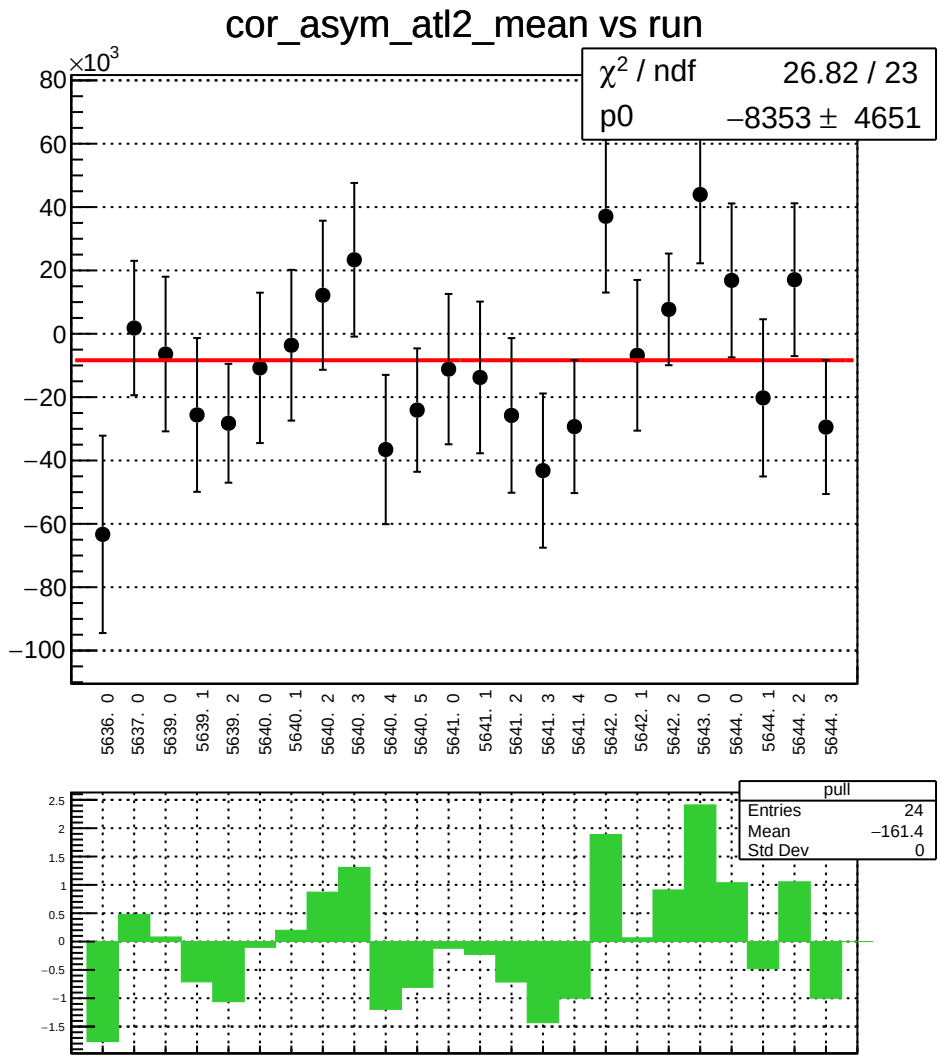

pull1D
Entries 24
Mean −0.01256
Std Dev 1.057
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

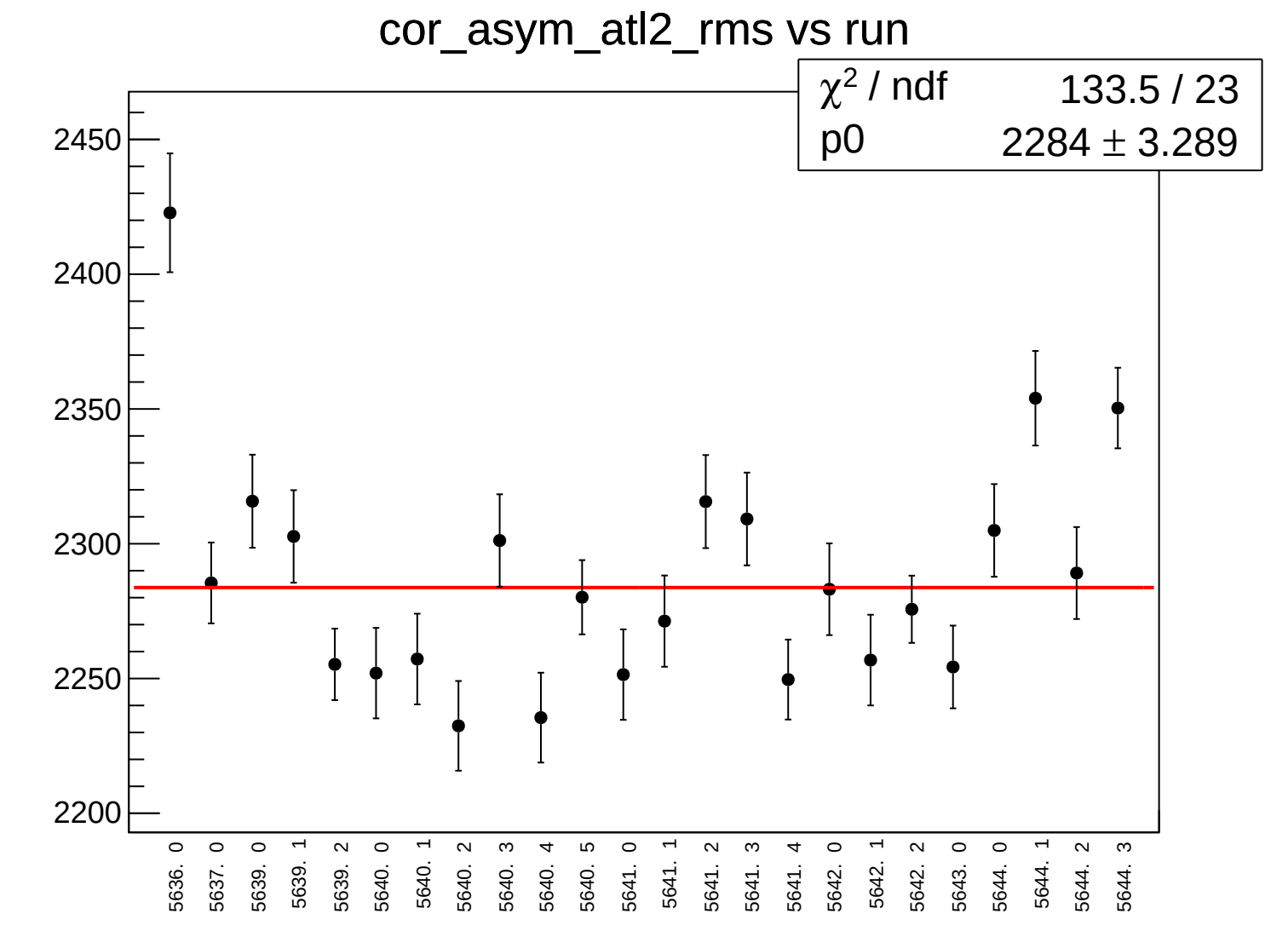

reg_asym_atl2_rms vs run
χ² / ndf 133.5 / 23
p0 2284 ± 3.289
2450
2400
2350
2300
2250
2200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

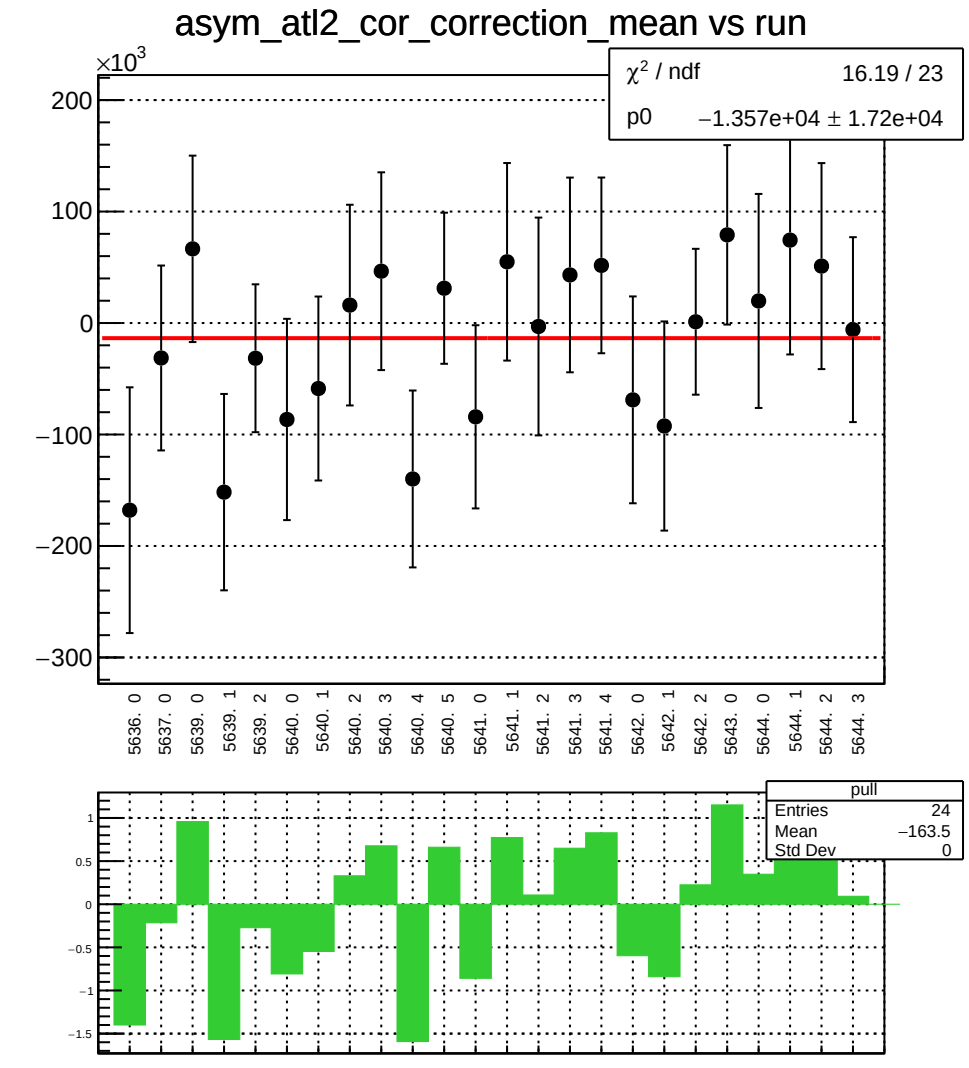

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 16.19 / 23
p0 −1.357e+04 ± 1.72e+04
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −163.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

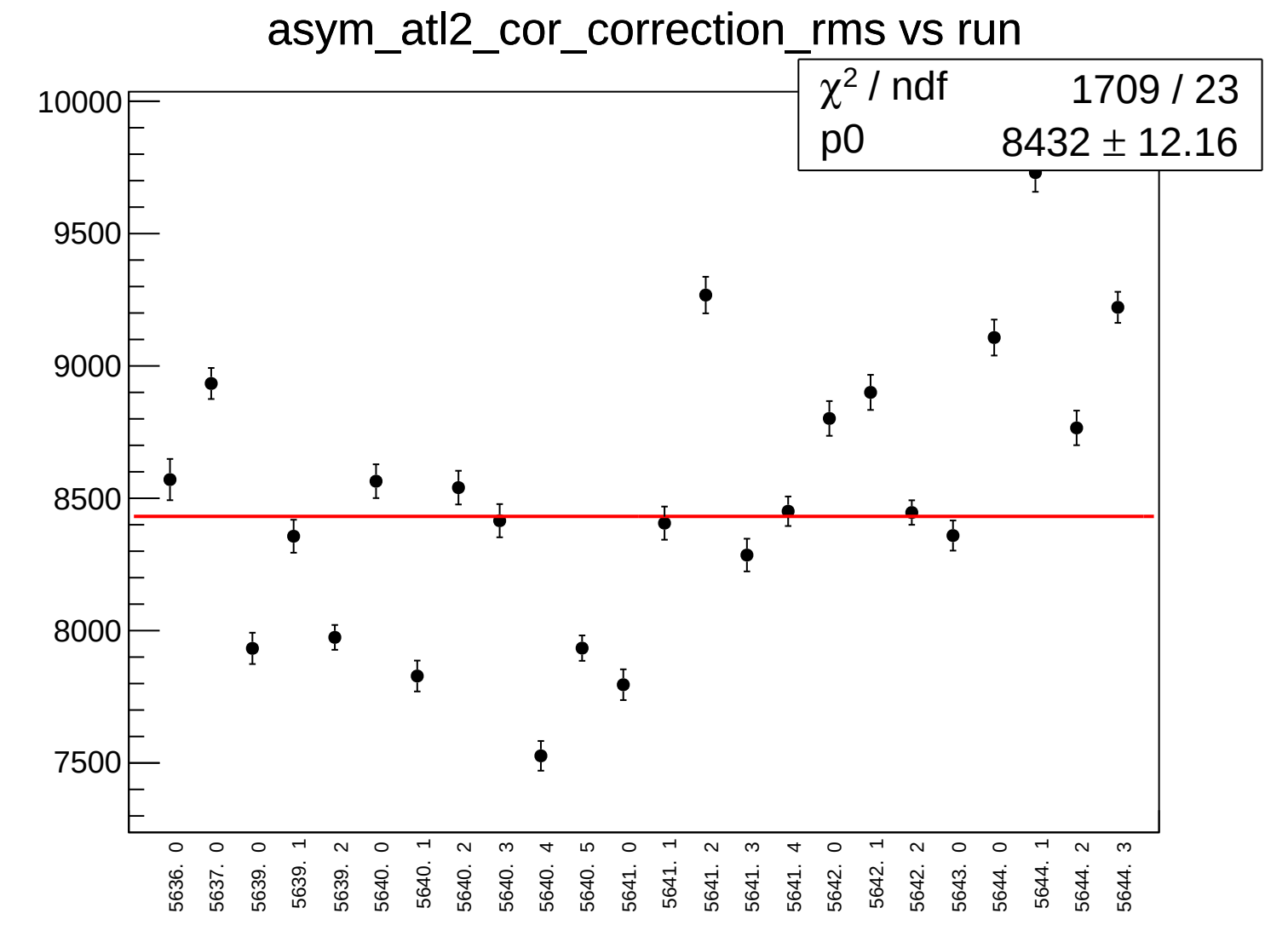

pull1D
Entries 24
Mean −0.01421
Std Dev 0.8213
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

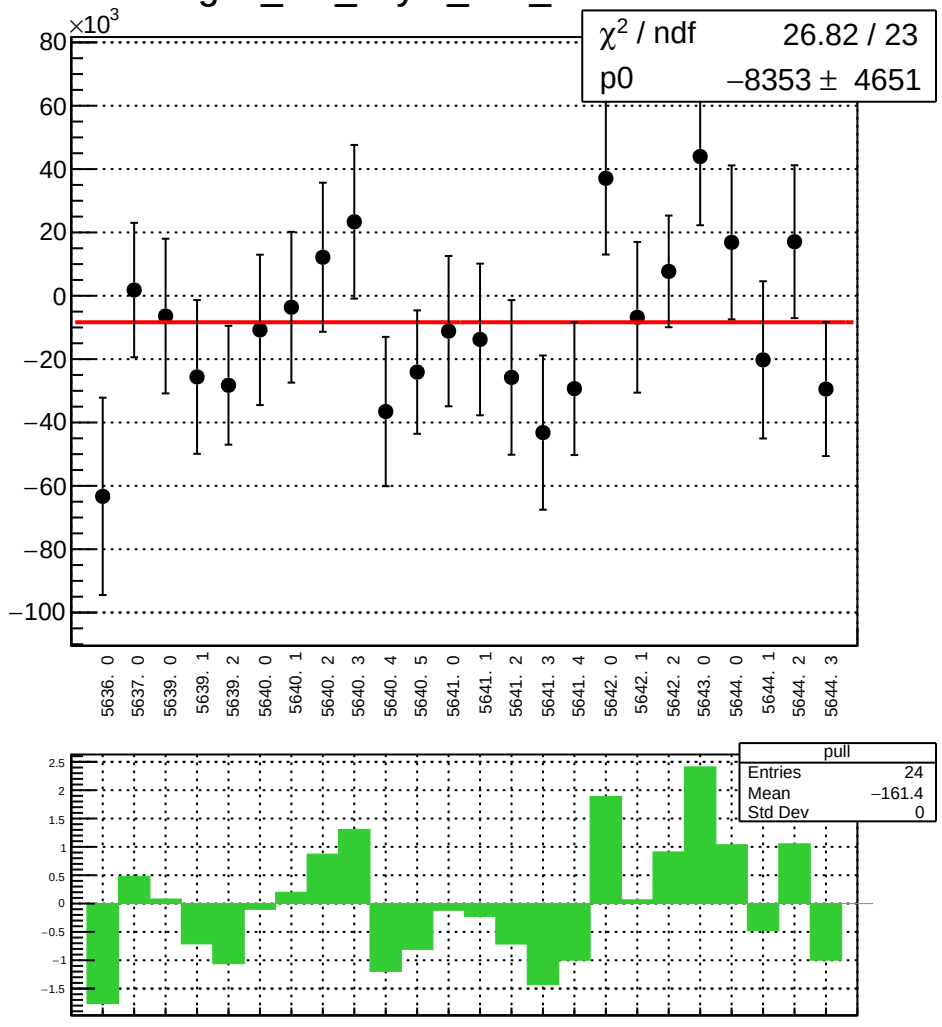

asym_atl2_reg_correction_rms vs run
χ² / ndf 1709 / 23
p0 8432 ± 12.16
10000
9500
9000
8500
8000
7500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

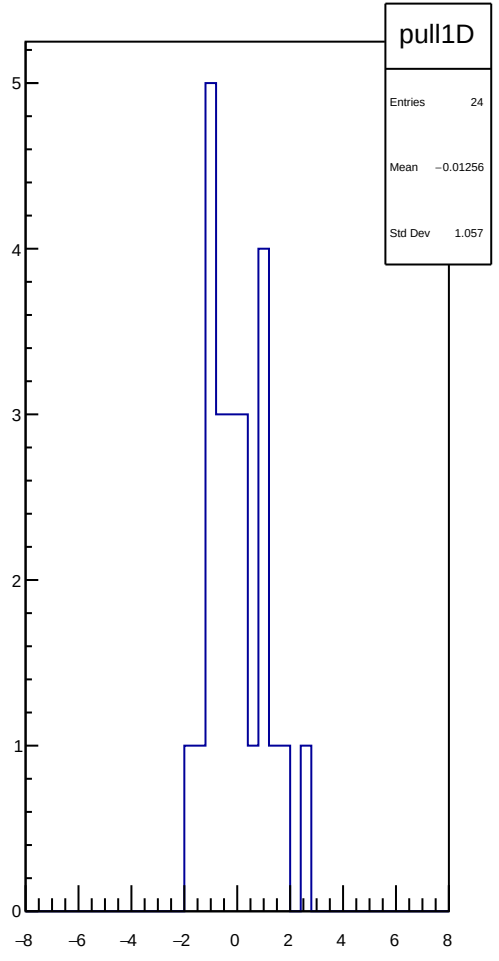

cor_asym_atl2_mean vs run
χ^2 / ndf 26.82 / 23
p0 −8353 ± 4651
×10^3
80
60
40
20
0
−20
−40
−60
−80
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −161.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.01256
Std Dev 1.057
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

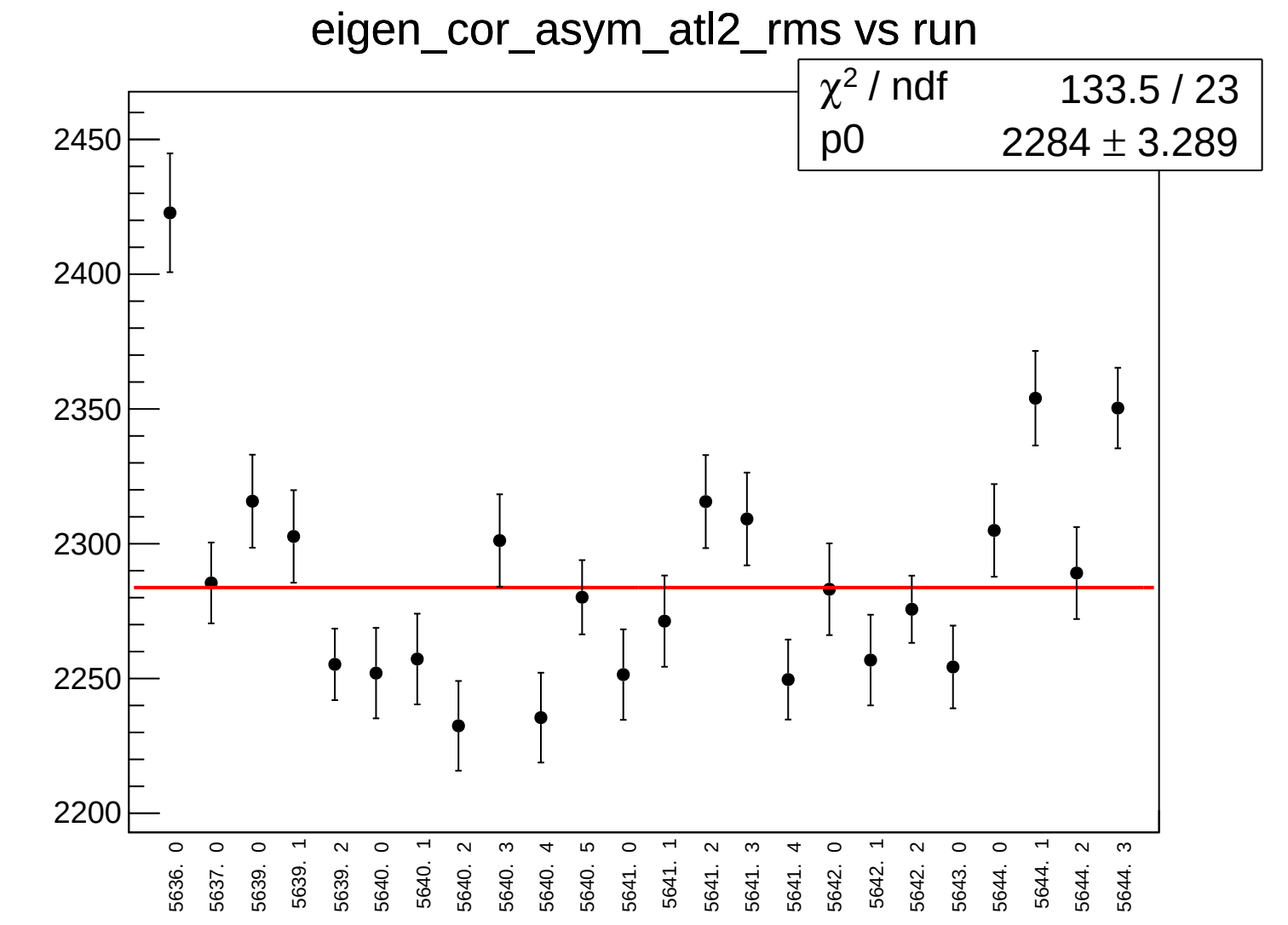

cor_asym_atl2_rms vs run
χ² / ndf 133.5 / 23
p0 2284 ± 3.289
2450
2400
2350
2300
2250
2200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

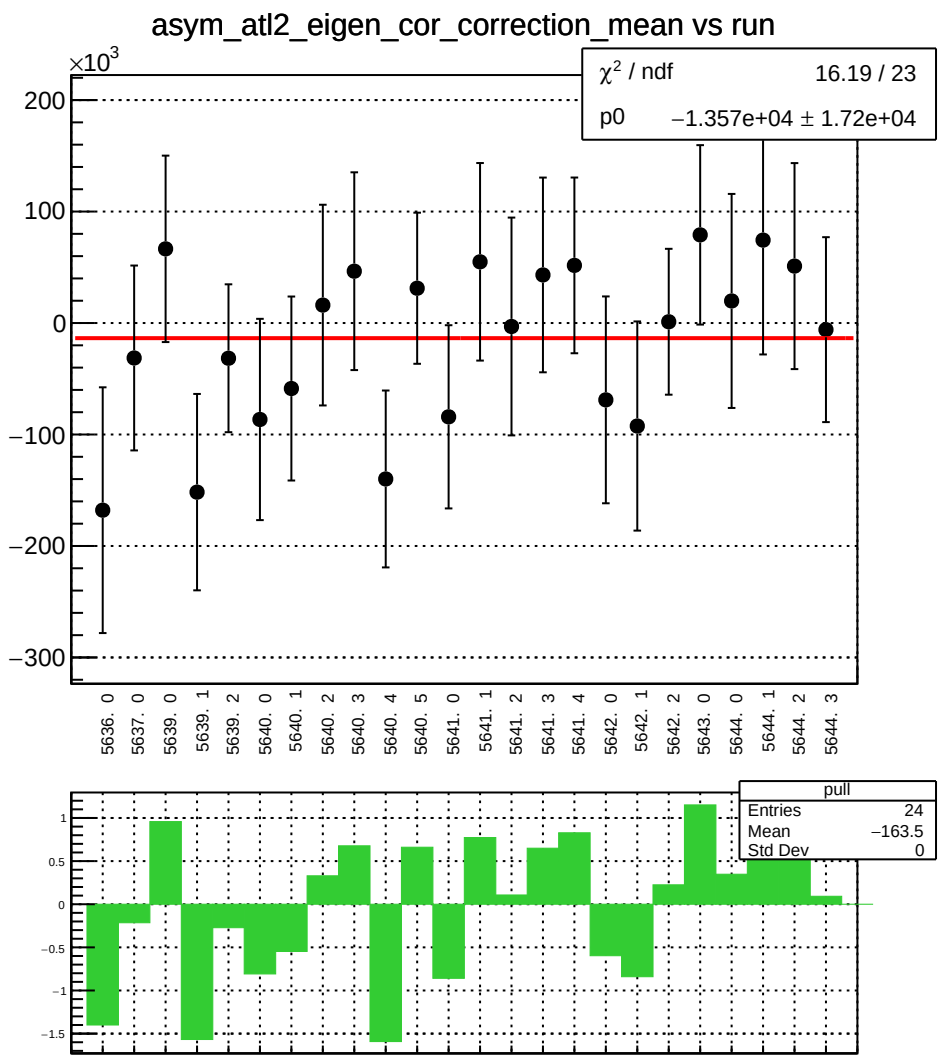

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 16.19 / 23
p0 −1.357e+04 ± 1.72e+04
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −163.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.0142
Std Dev 0.8213
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

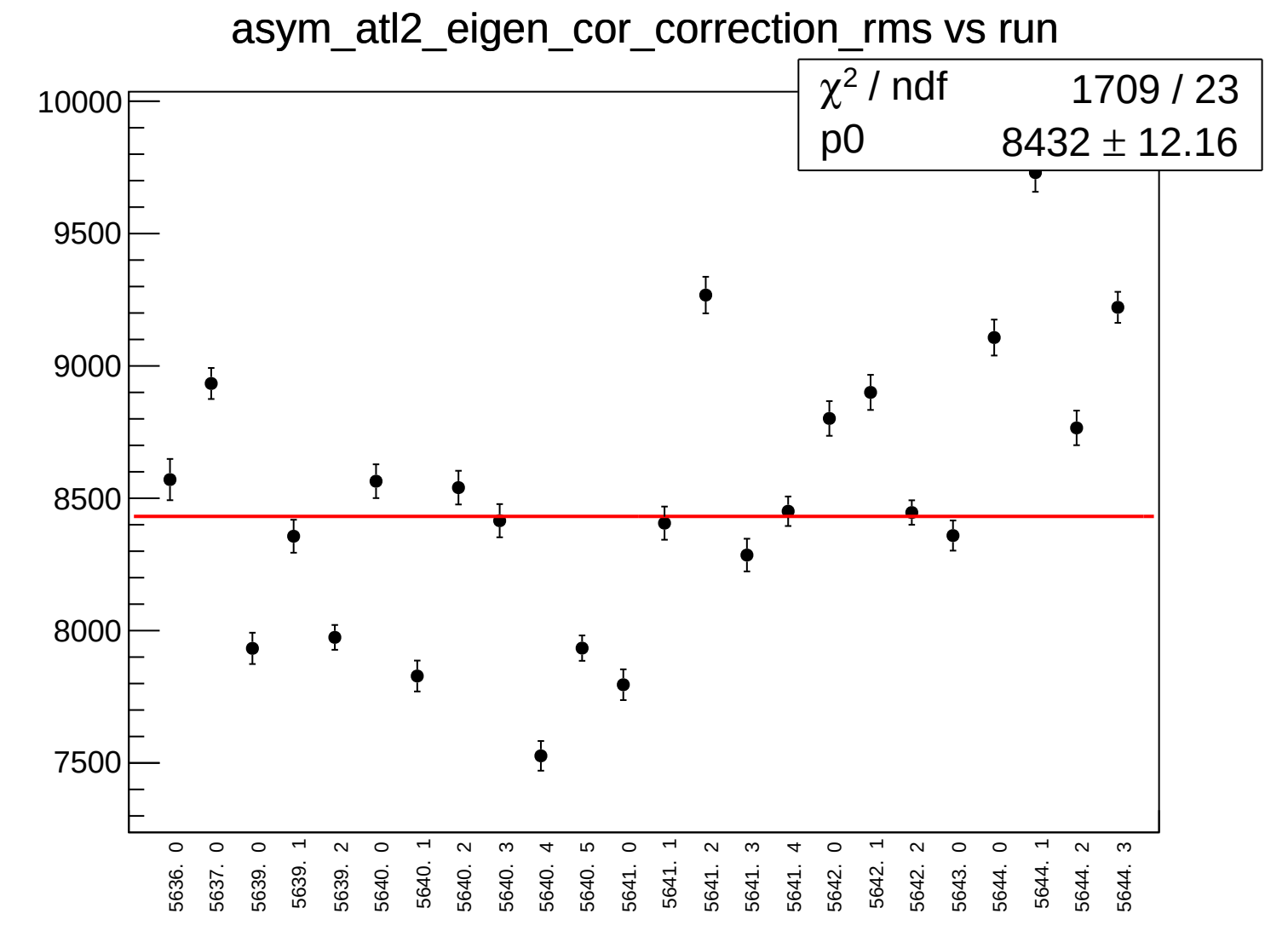

asym_atl2_cor_correction_rms vs run
χ² / ndf 1709 / 23
p0 8432 ± 12.16
10000
9500
9000
8500
8000
7500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

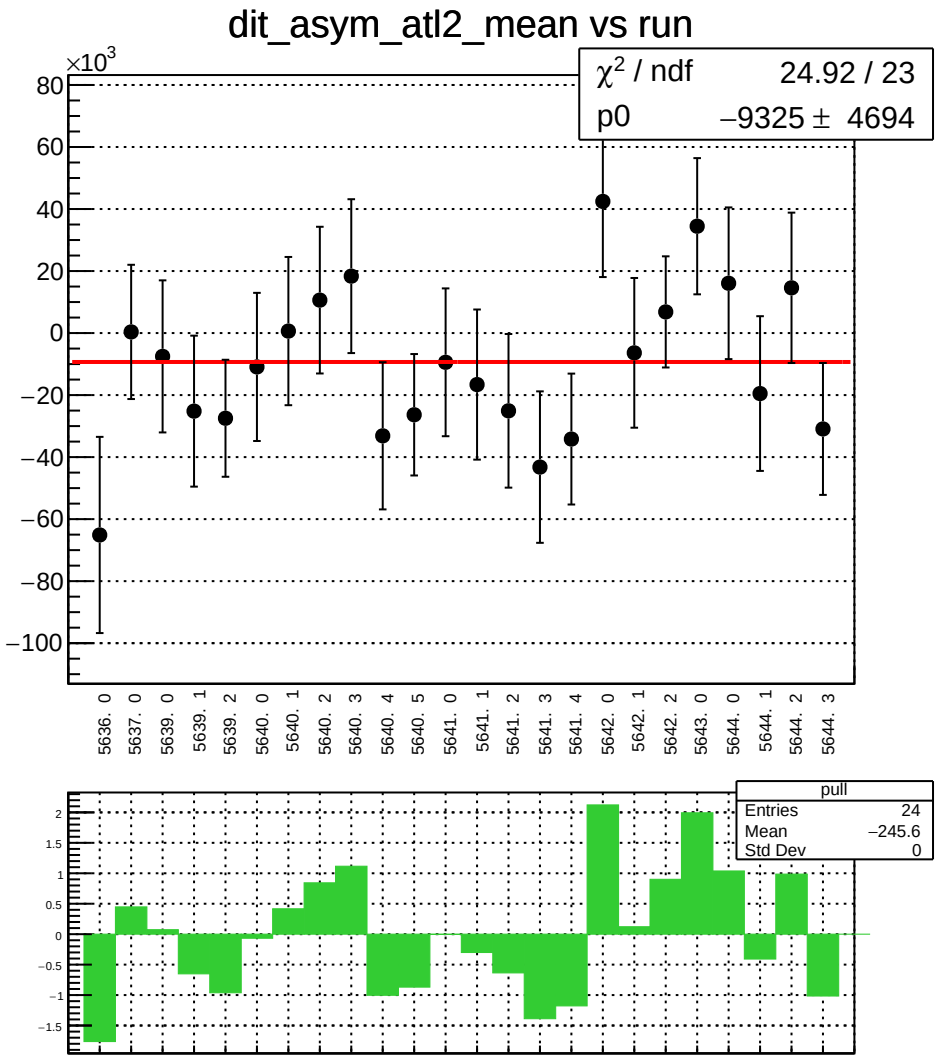

eigen_cor_asym_atl2_mean vs run
χ² / ndf 26.82 / 23
p0 −8353 ± 4651
×10³
80
60
40
20
0
−20
−40
−60
−80
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −161.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

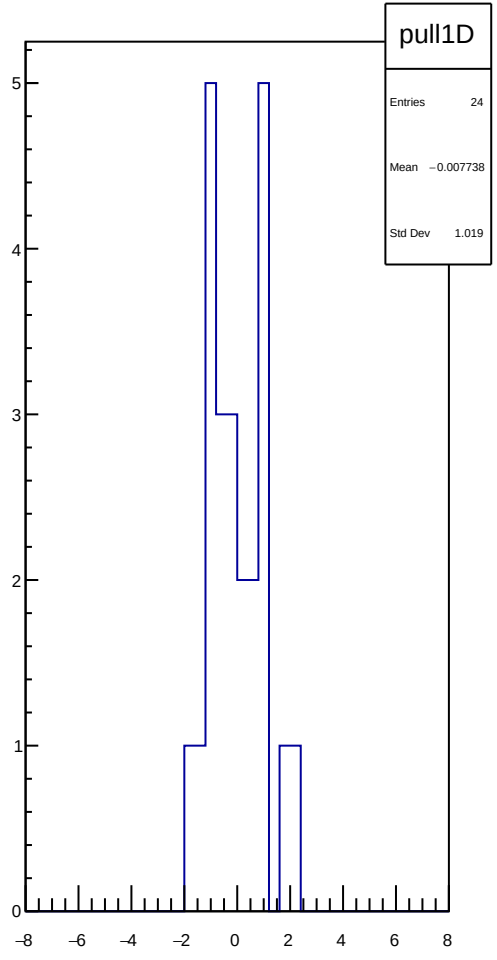

pull1D
Entries 24
Mean −0.01256
Std Dev 1.057
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

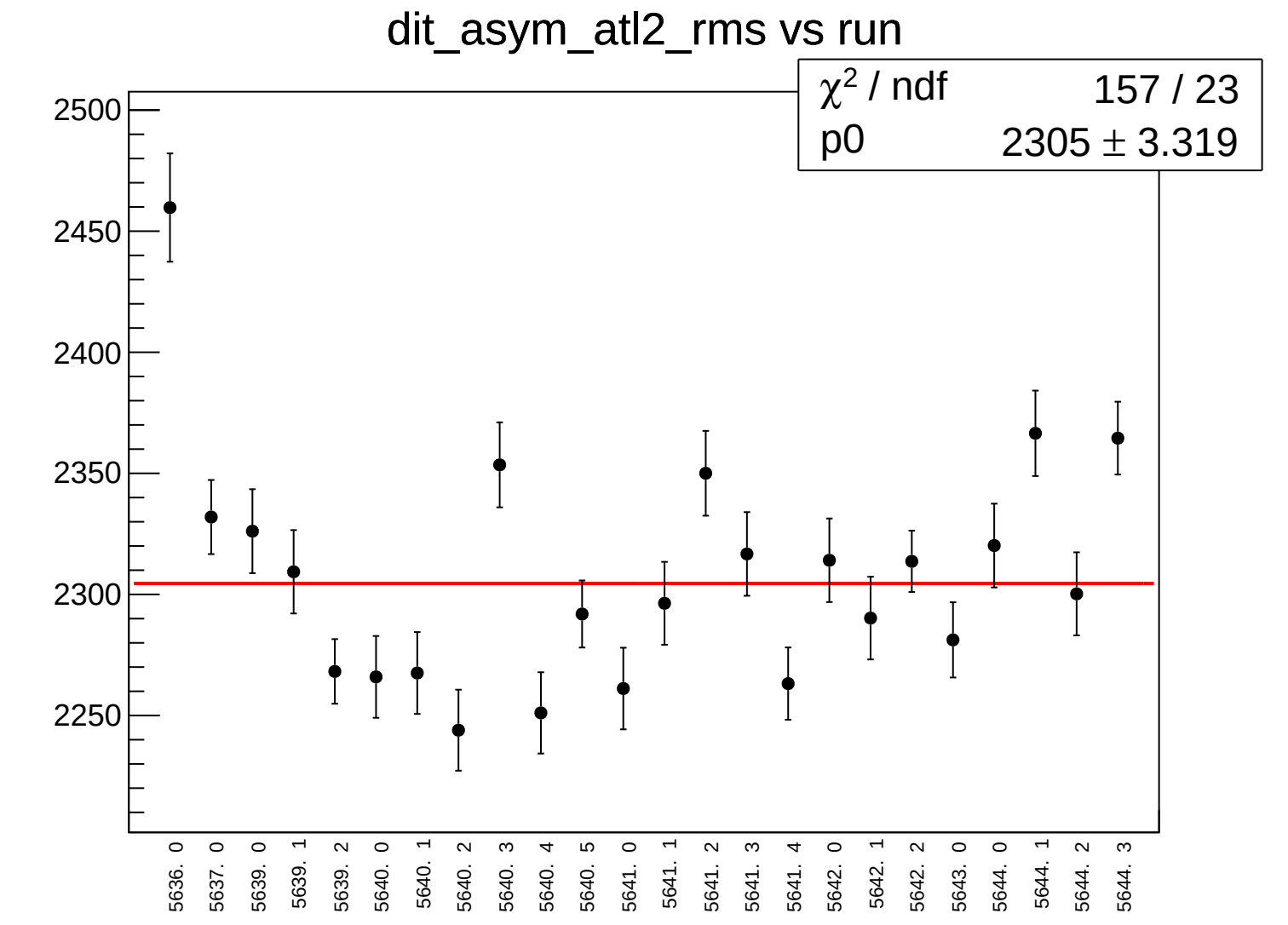

eigen_cor_asym_atl2_rms vs run
χ² / ndf 133.5 / 23
p0 2284 ± 3.289
2450
2400
2350
2300
2250
2200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

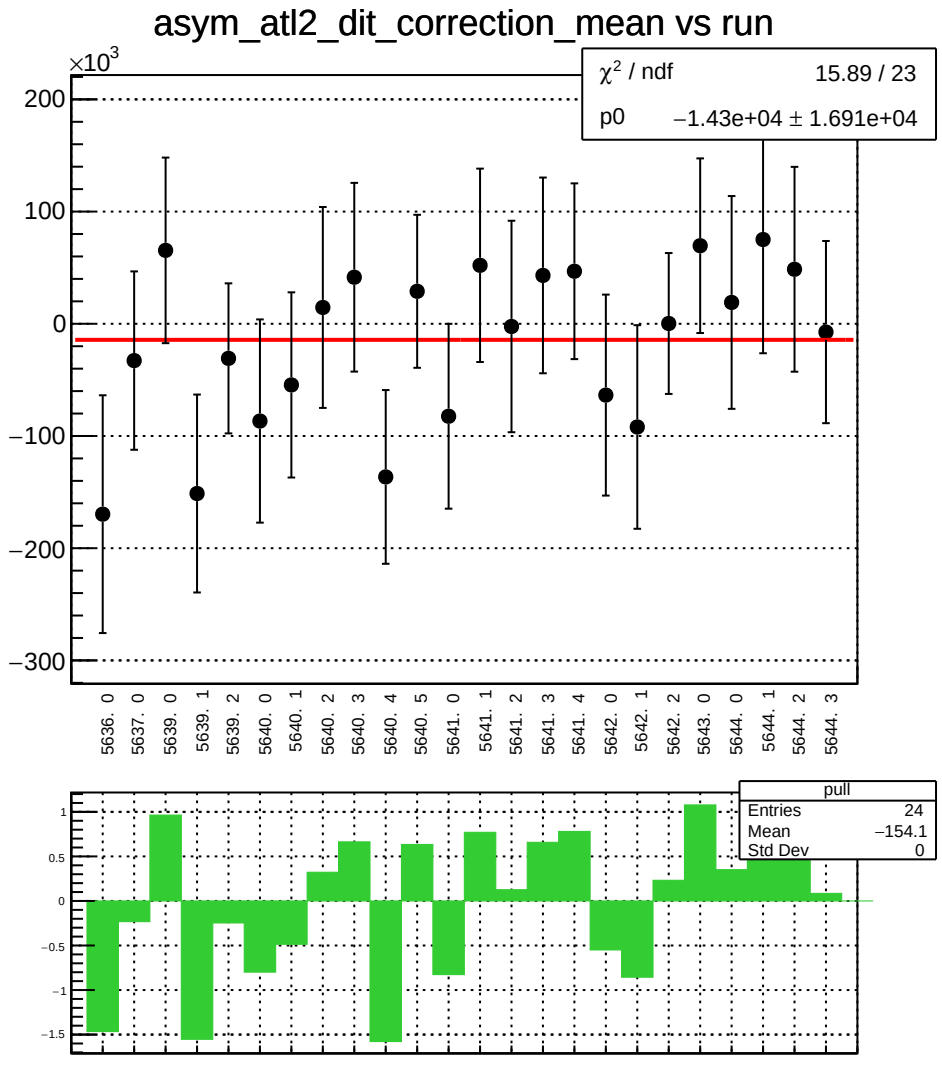

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 16.19 / 23
p0 −1.357e+04 ± 1.72e+04
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −163.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.0142
Std Dev 0.8213
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

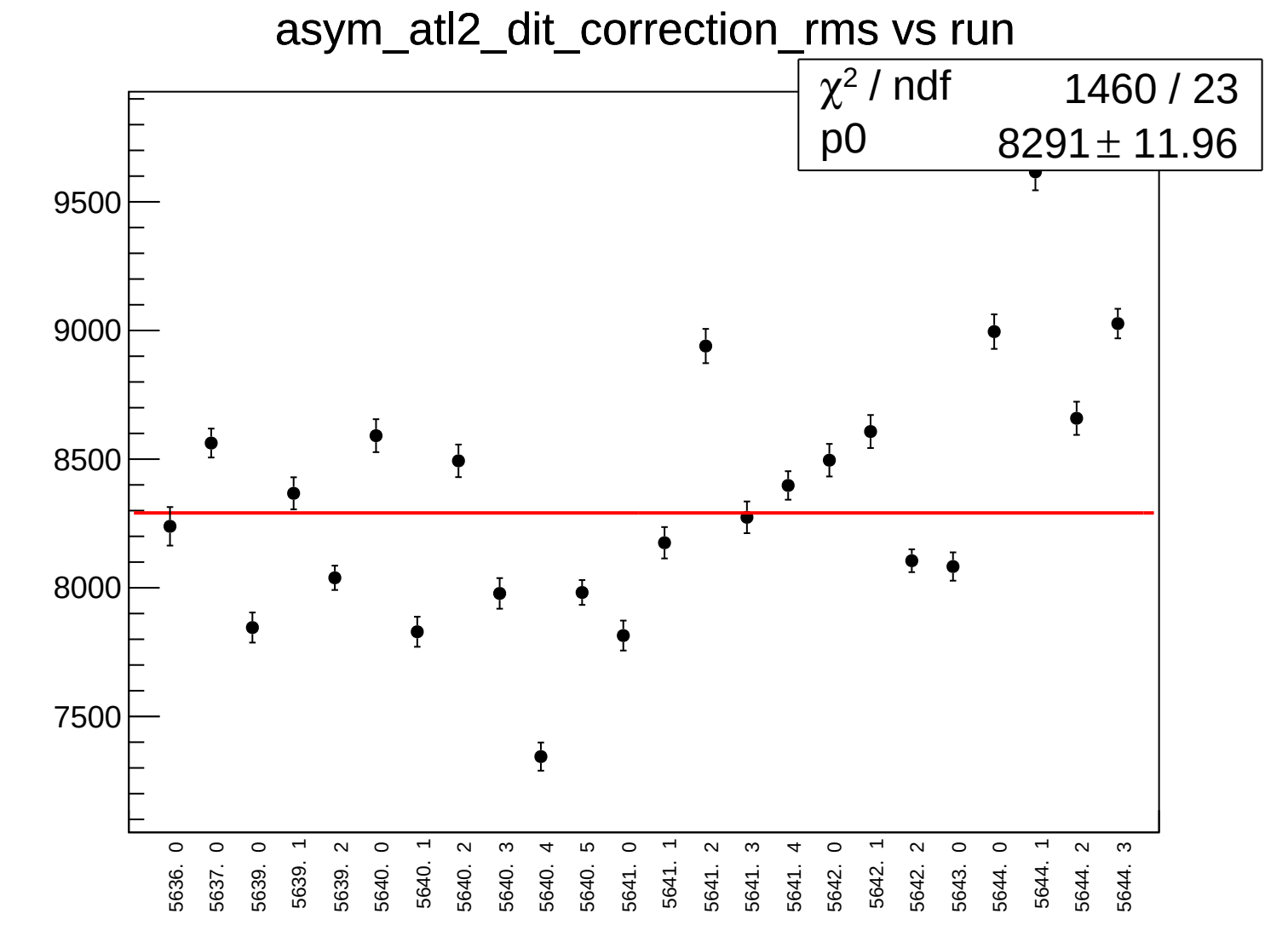

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 1709 / 23
p0 8432 ± 12.16
10000
9500
9000
8500
8000
7500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

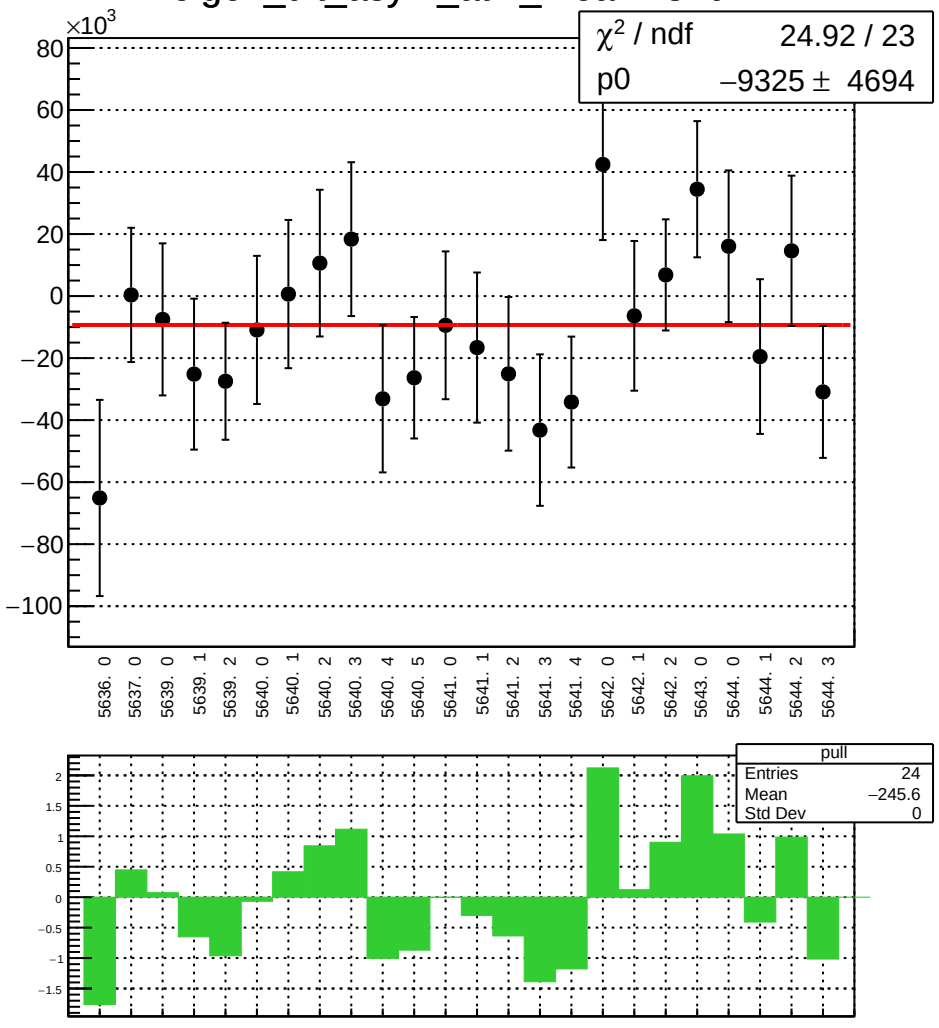

dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 24.92 / 23
p0 −9325 ± 4694
80
60
40
20
0
−20
−40
−60
−80
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −245.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

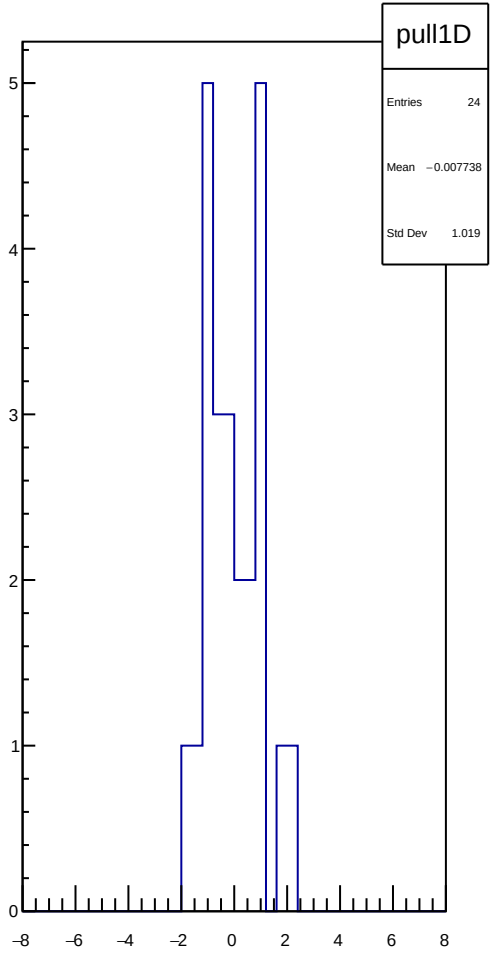

pull1D
Entries 24
Mean −0.007738
Std Dev 1.019
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

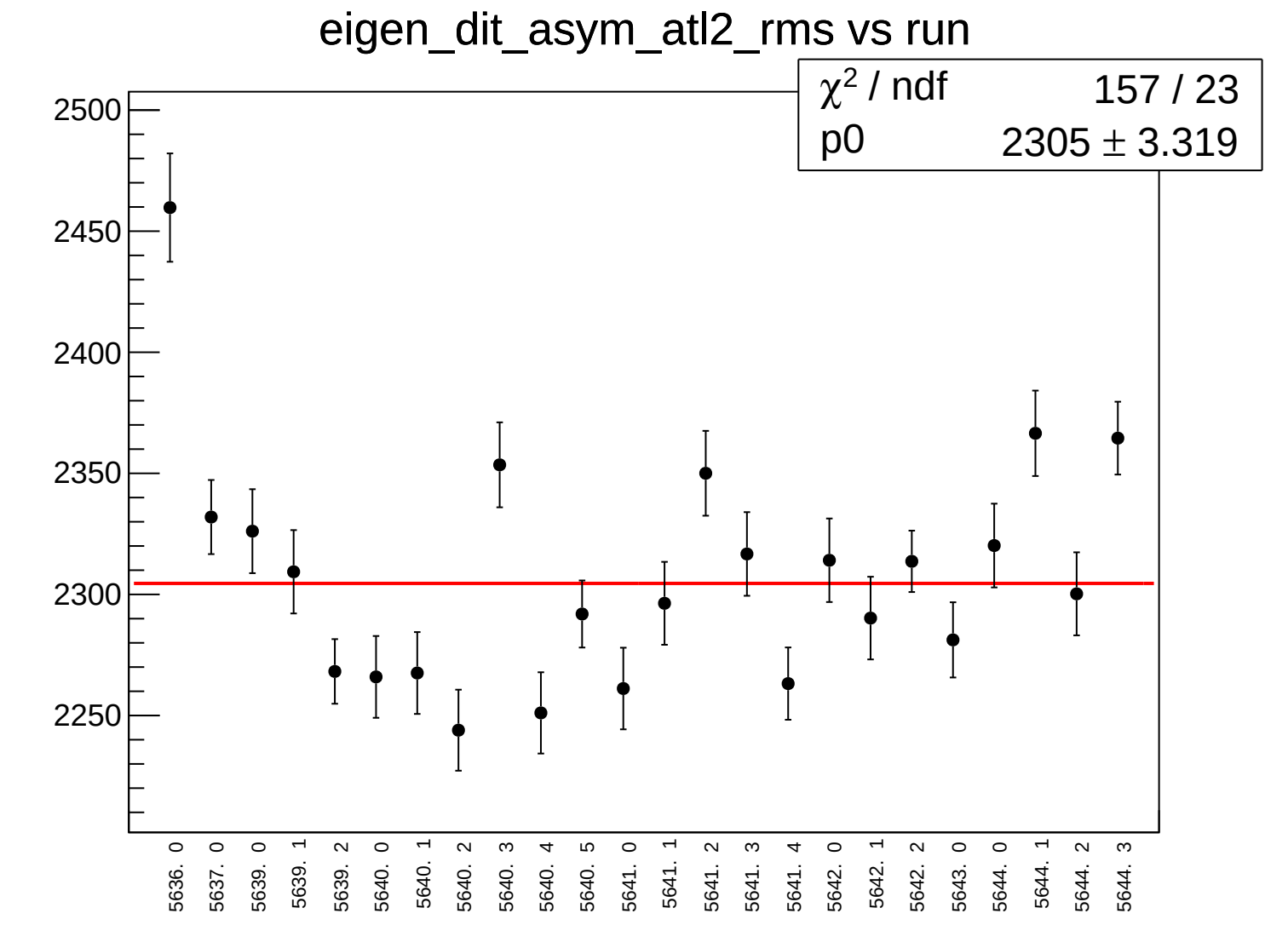

dit_asym_atl2_rms vs run
χ² / ndf 157 / 23
p0 2305 ± 3.319
2500
2450
2400
2350
2300
2250
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

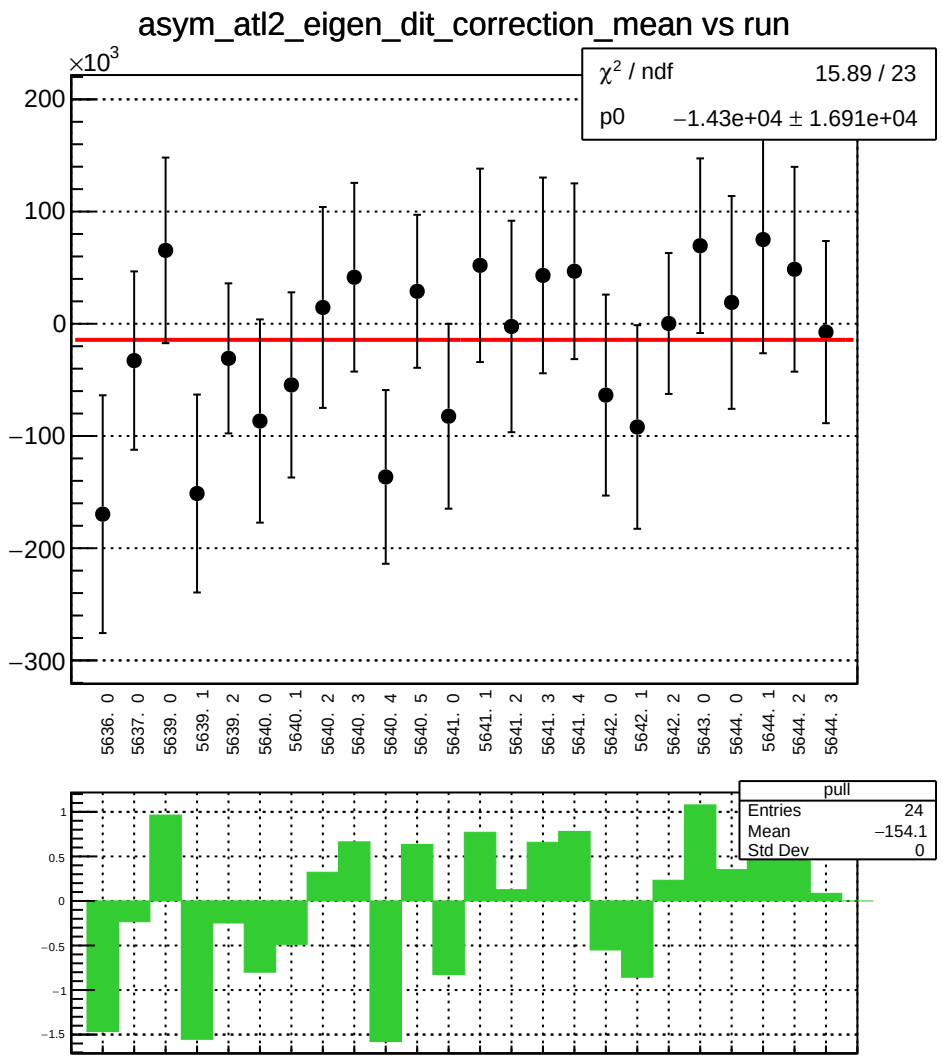

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 15.89 / 23
p0 −1.43e+04 ± 1.691e+04
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −154.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.01496
Std Dev 0.8135
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

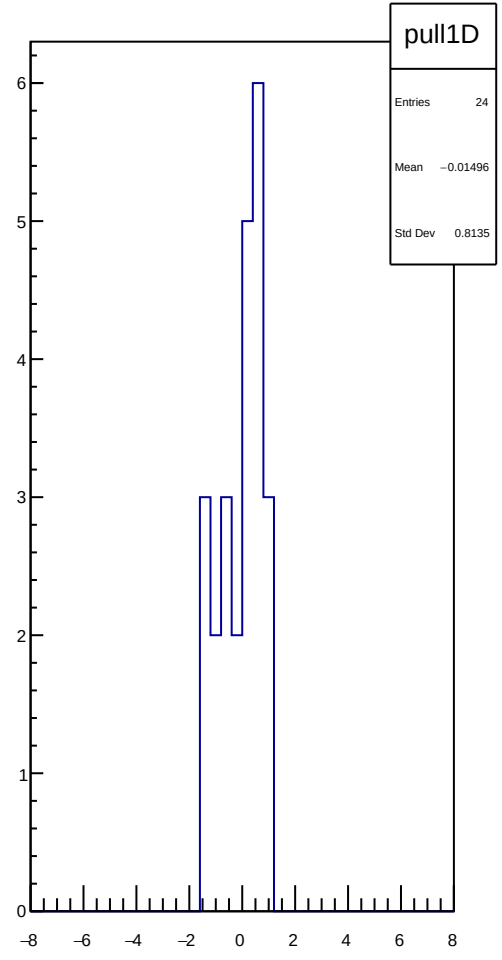

asym_atl2_dit_correction_rms vs run
χ² / ndf 1460 / 23
p0 8291 ± 11.96
9500
9000
8500
8000
7500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

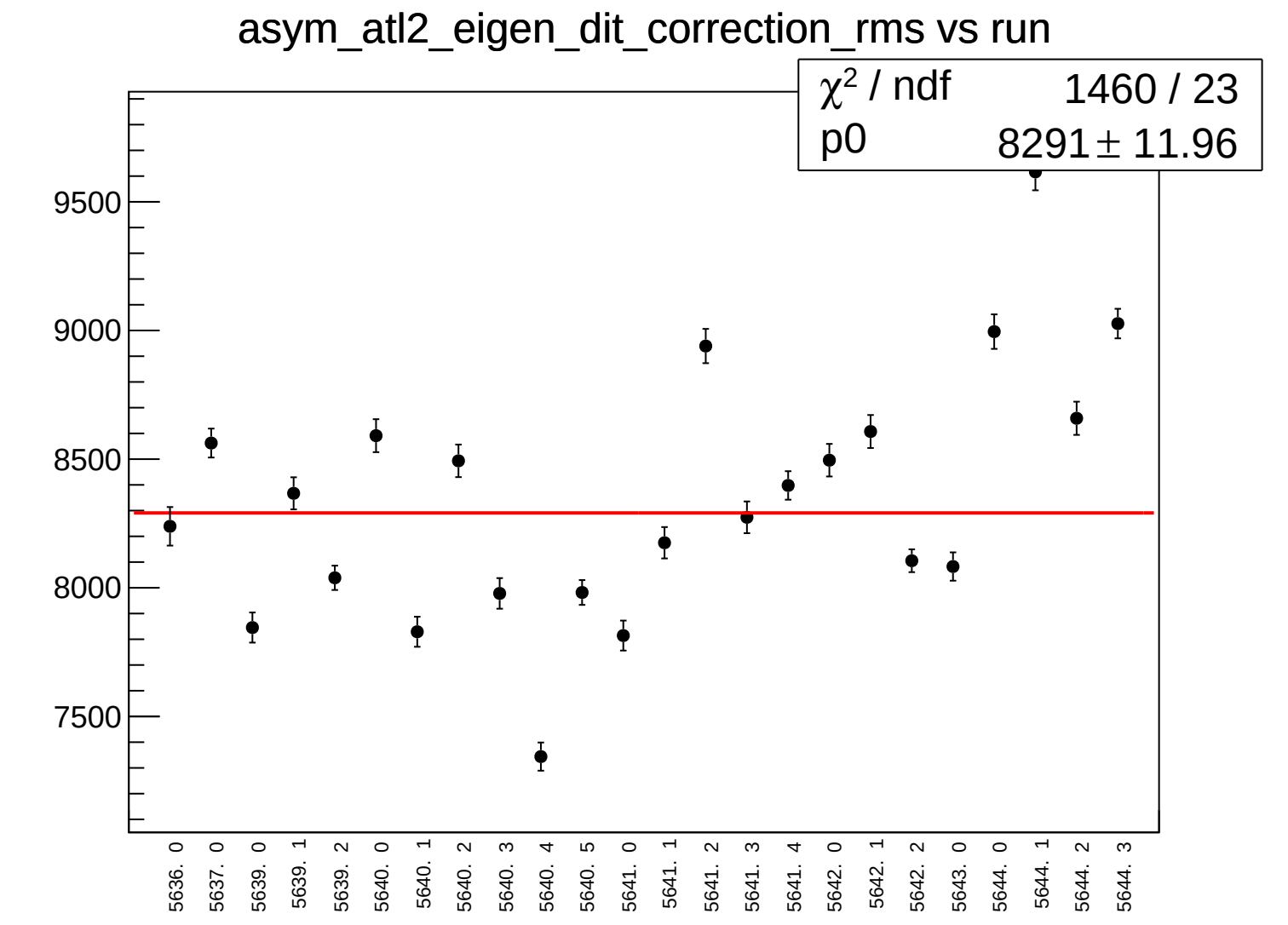

eigen_dit_asym_atl2_mean vs run
χ² / ndf 24.92 / 23
p0 −9325 ± 4694
×10³
80
60
40
20
0
−20
−40
−60
−80
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −245.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

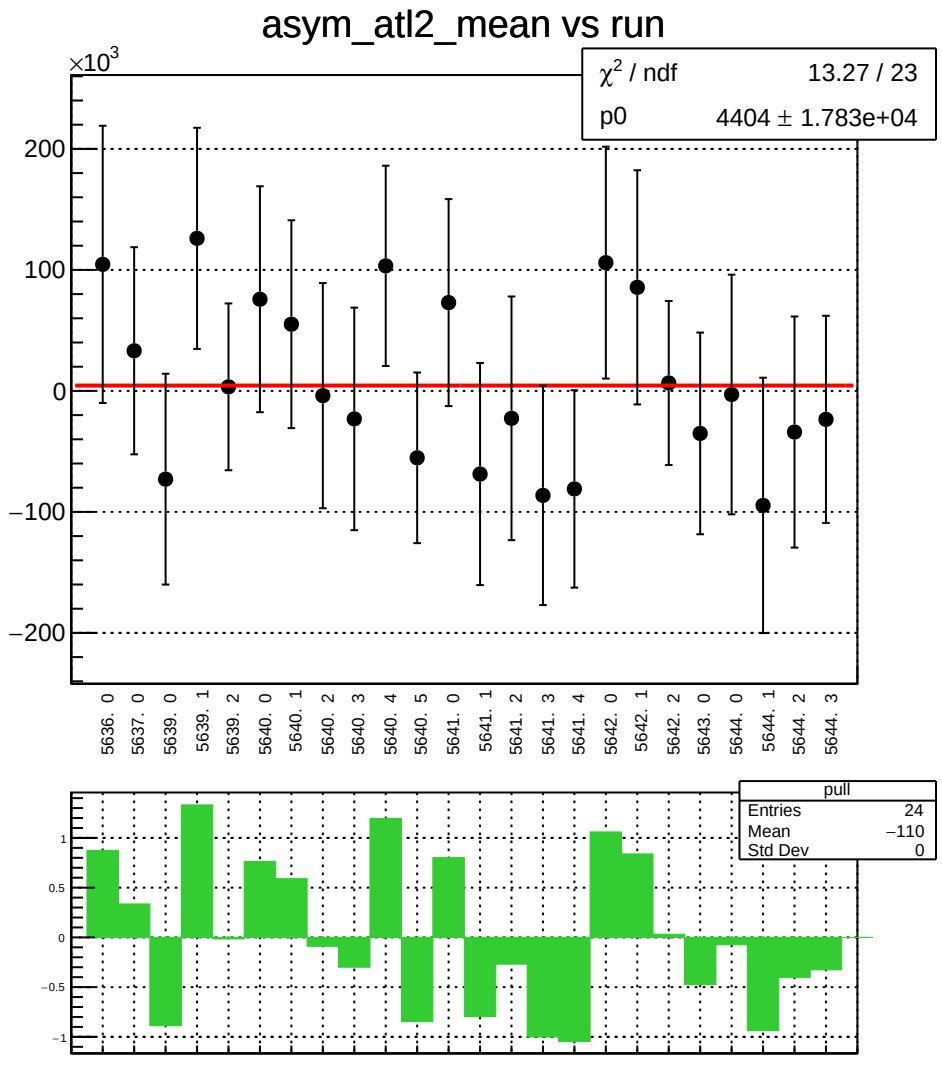

pull1D
Entries 24
Mean −0.007738
Std Dev 1.019
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

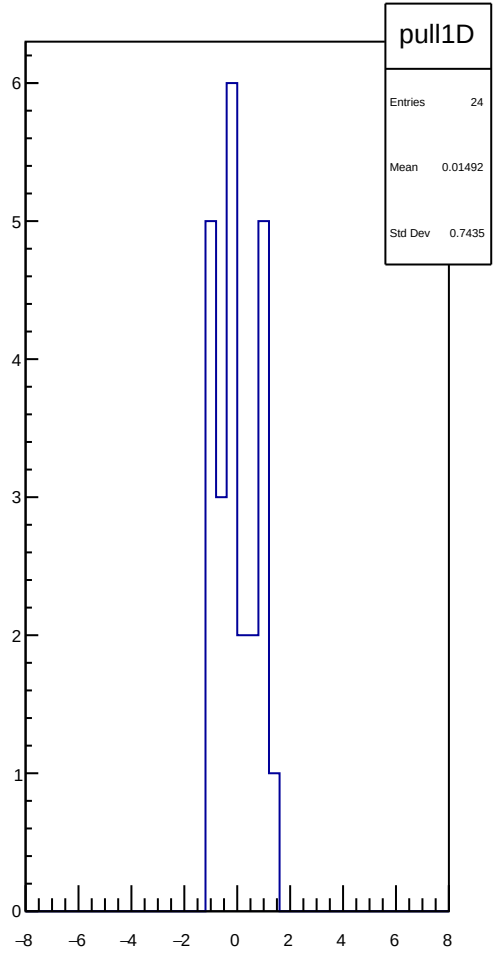

eigen_dit_asym_atl2_rms vs run
χ² / ndf 157 / 23
p0 2305 ± 3.319
2500
2450
2400
2350
2300
2250
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

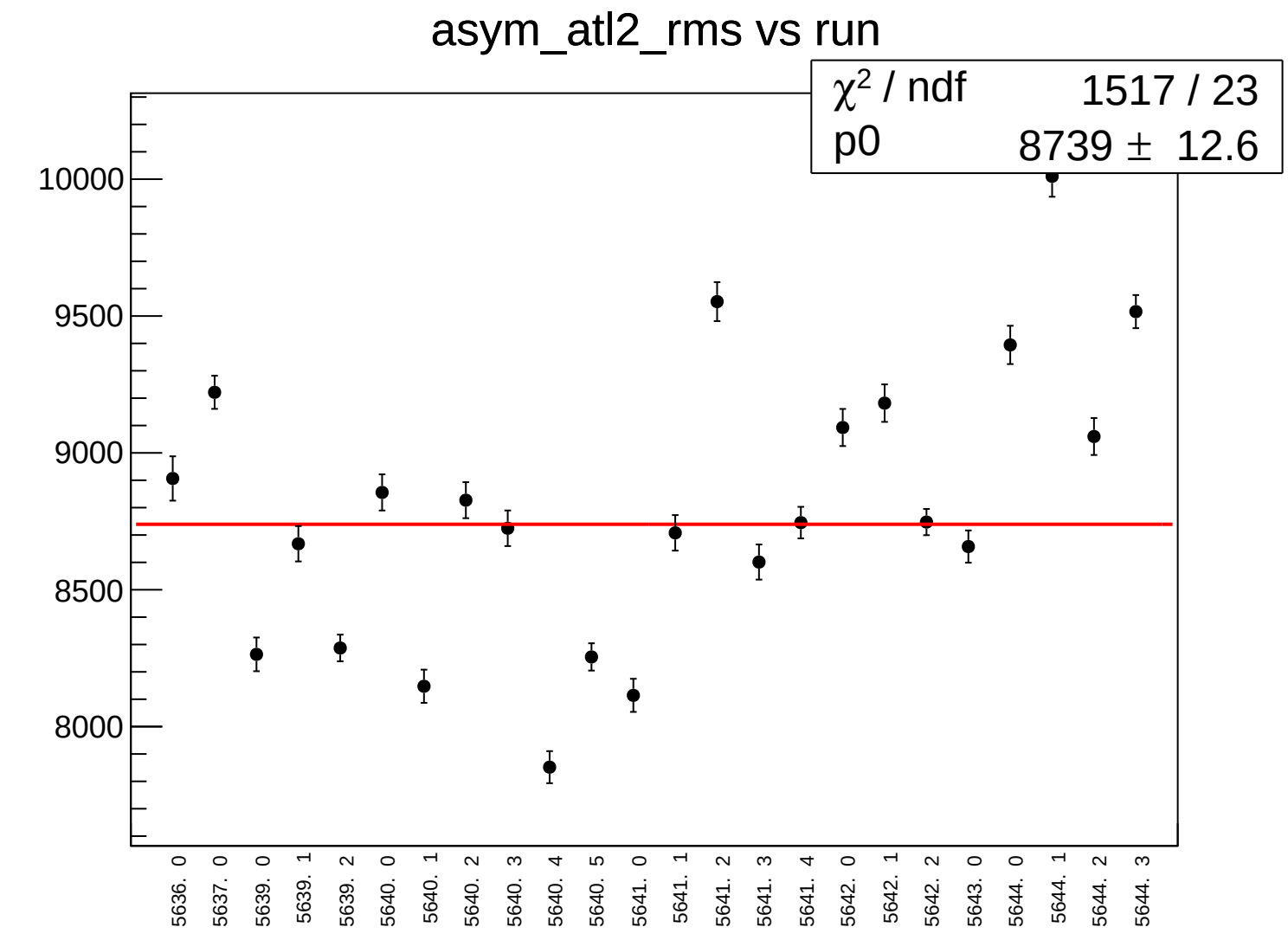

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 15.89 / 23
p0 −1.43e+04 ± 1.691e+04
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −154.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

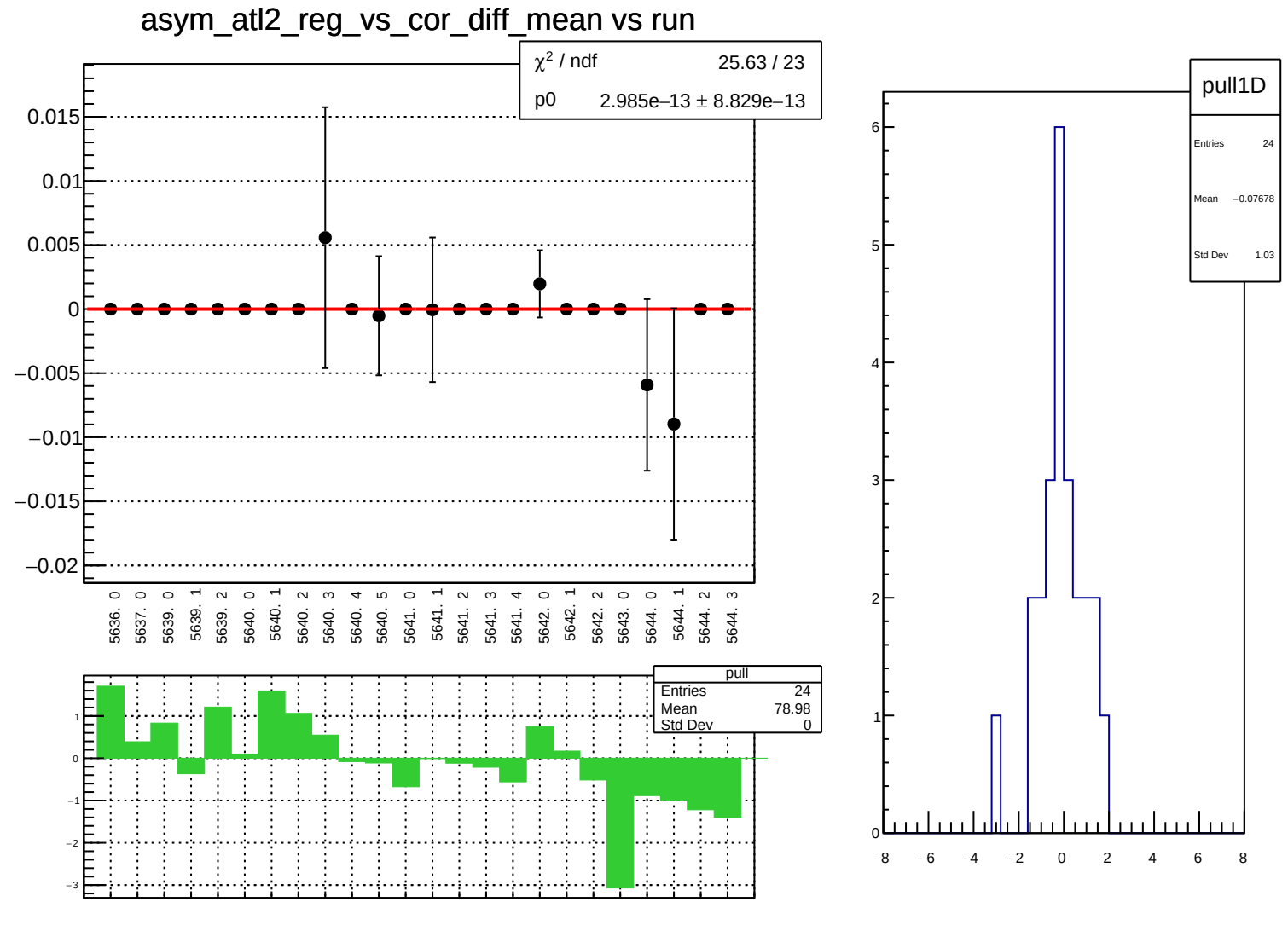

pull1D
Entries 24
Mean −0.01496
Std Dev 0.8135
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

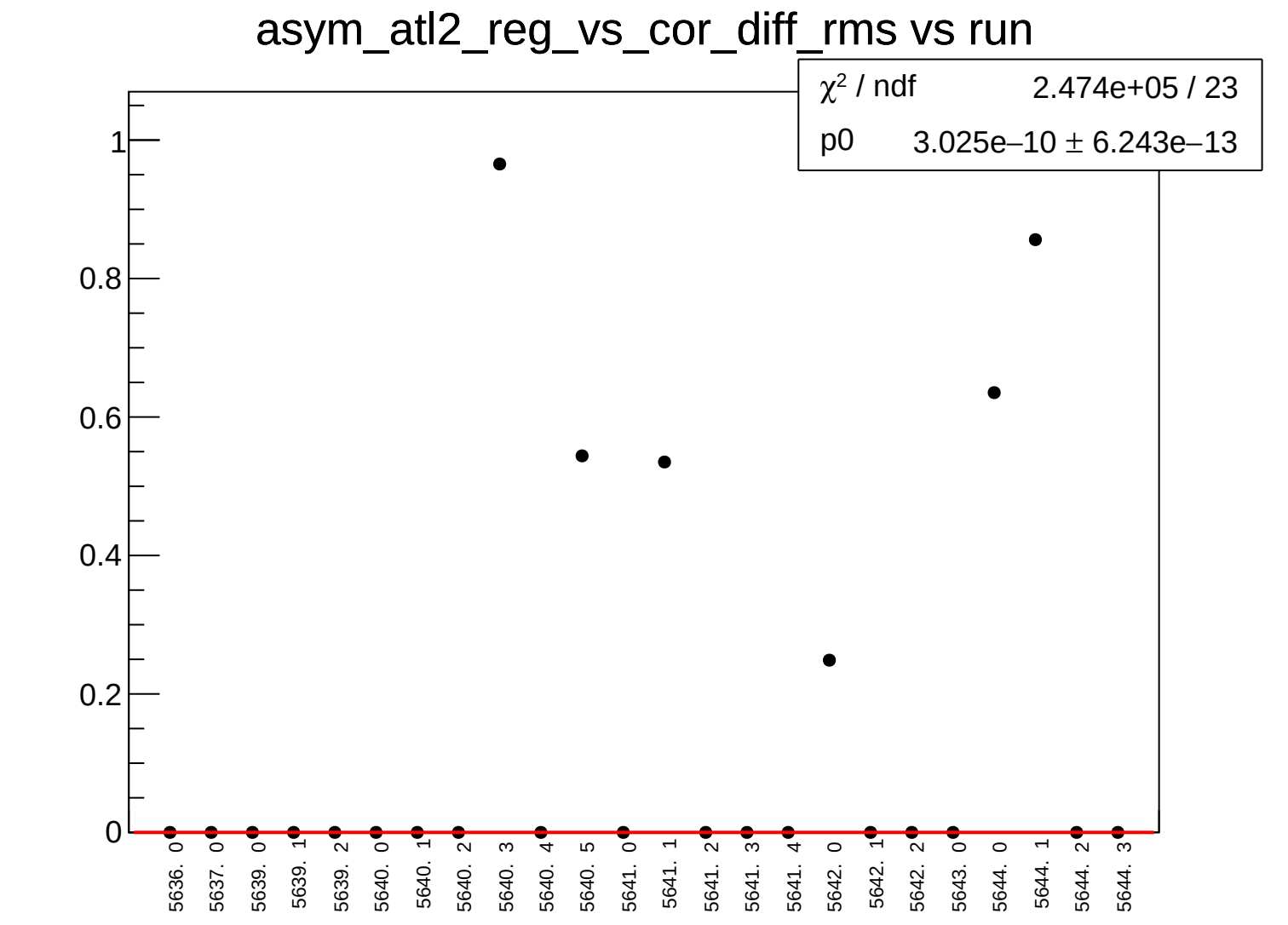

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 1460 / 23
p0 8291 ± 11.96
9500
9000
8500
8000
7500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

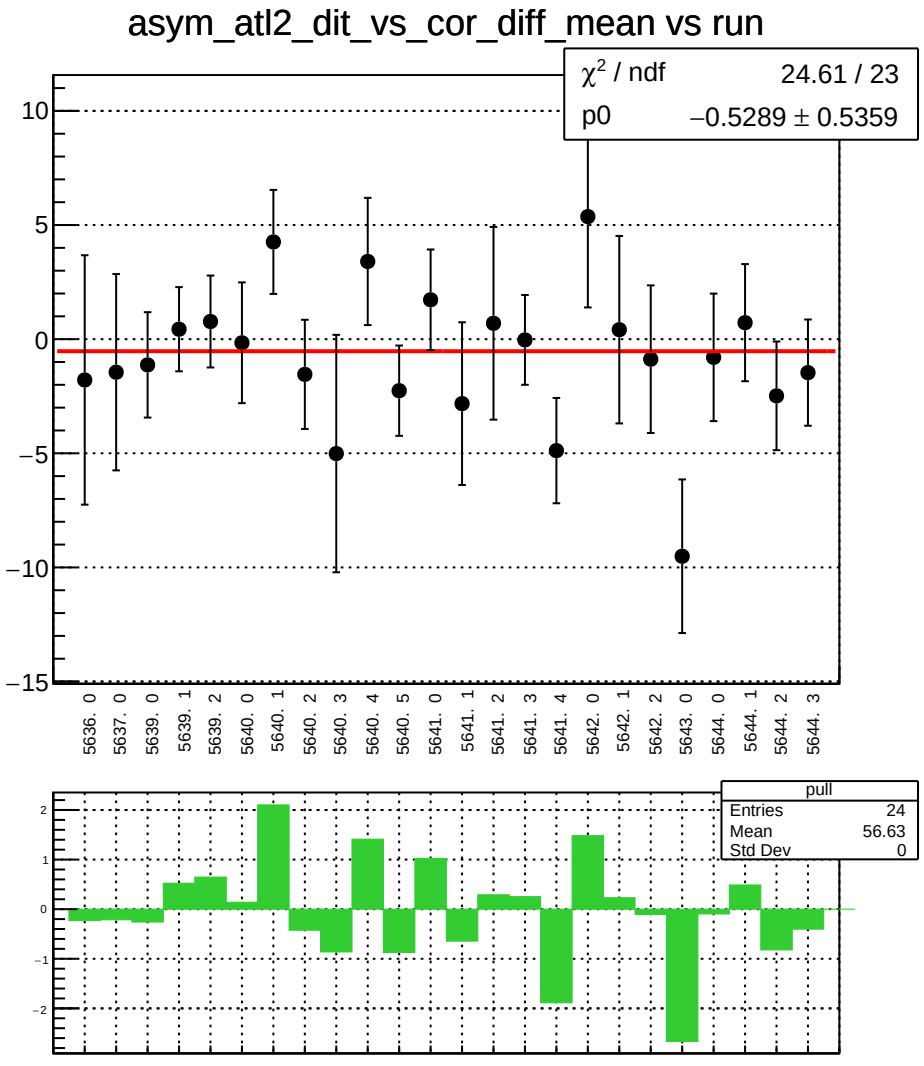

asym_atl2_mean vs run
×10^3
χ² / ndf 13.27 / 23
p0 4404 ± 1.783e+04
200
100
0
−100
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −110
Std Dev 0
1
0.5
0
−0.5
−1

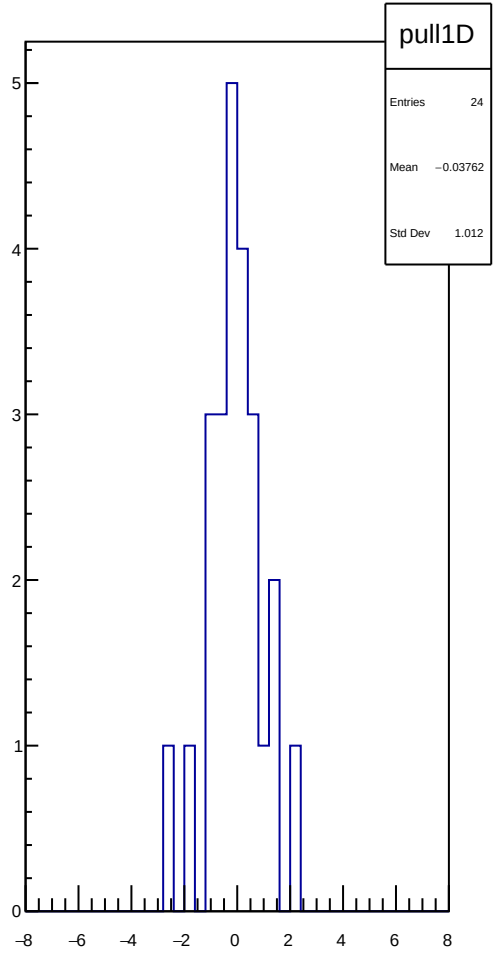

pull1D
Entries 24
Mean 0.01492
Std Dev 0.7435
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

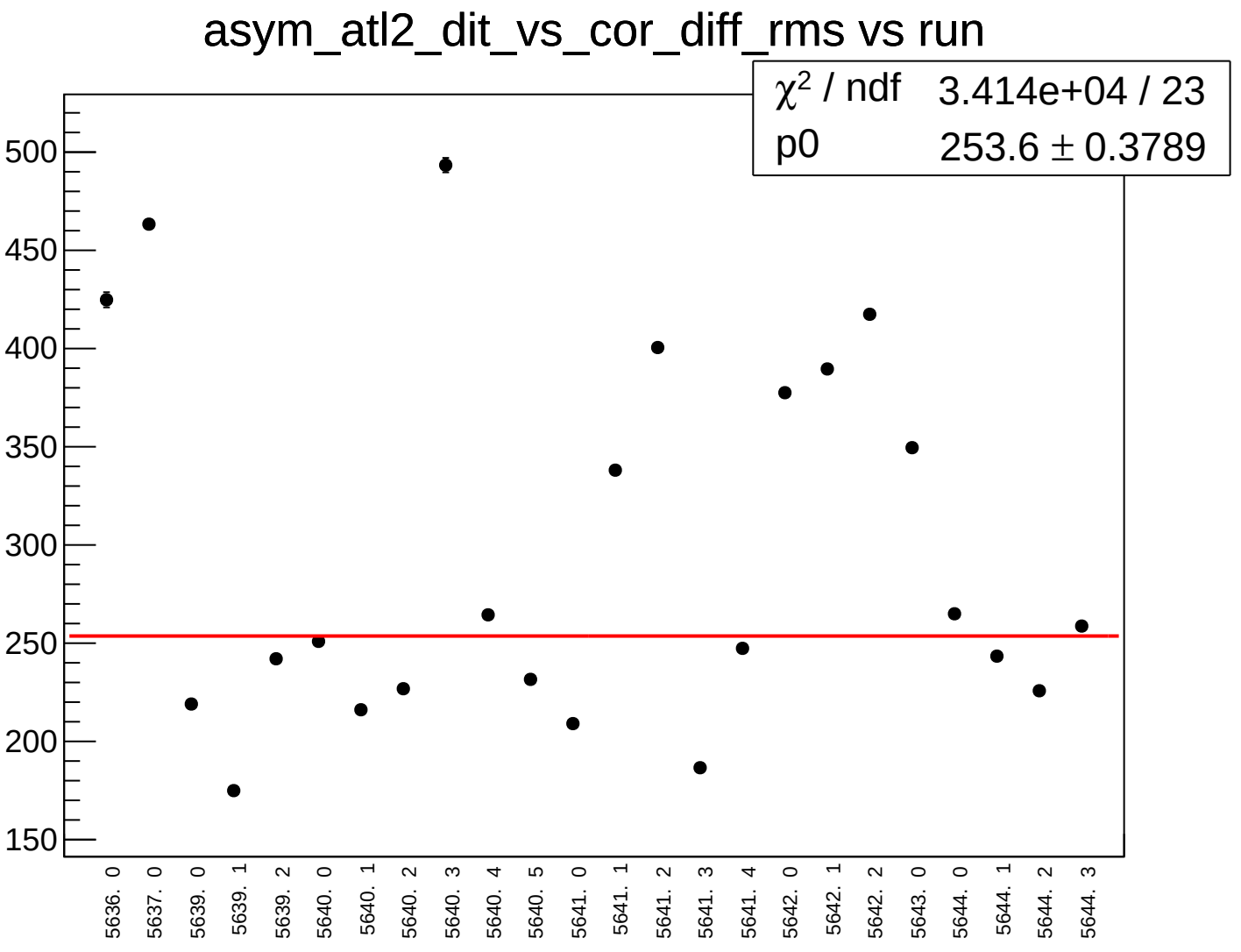

asym_atl2_rms vs run
χ² / ndf 1517 / 23
p0 8739 ± 12.6
10000
9500
9000
8500
8000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

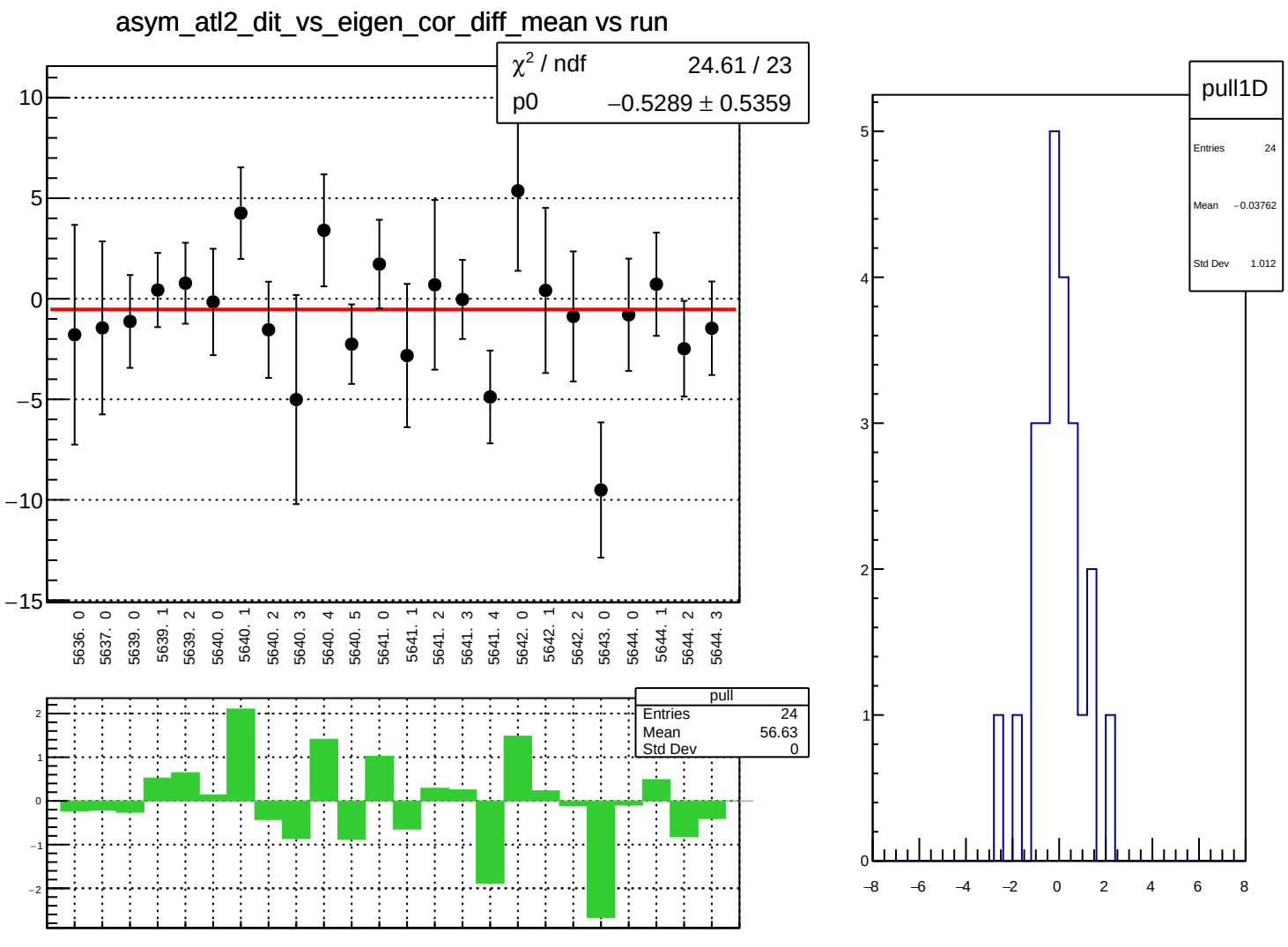

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 25.63 / 23
p0 2.985e−13 ± 8.829e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 78.98
Std Dev 0
pull1D
Entries 24
Mean −0.07678
Std Dev 1.03

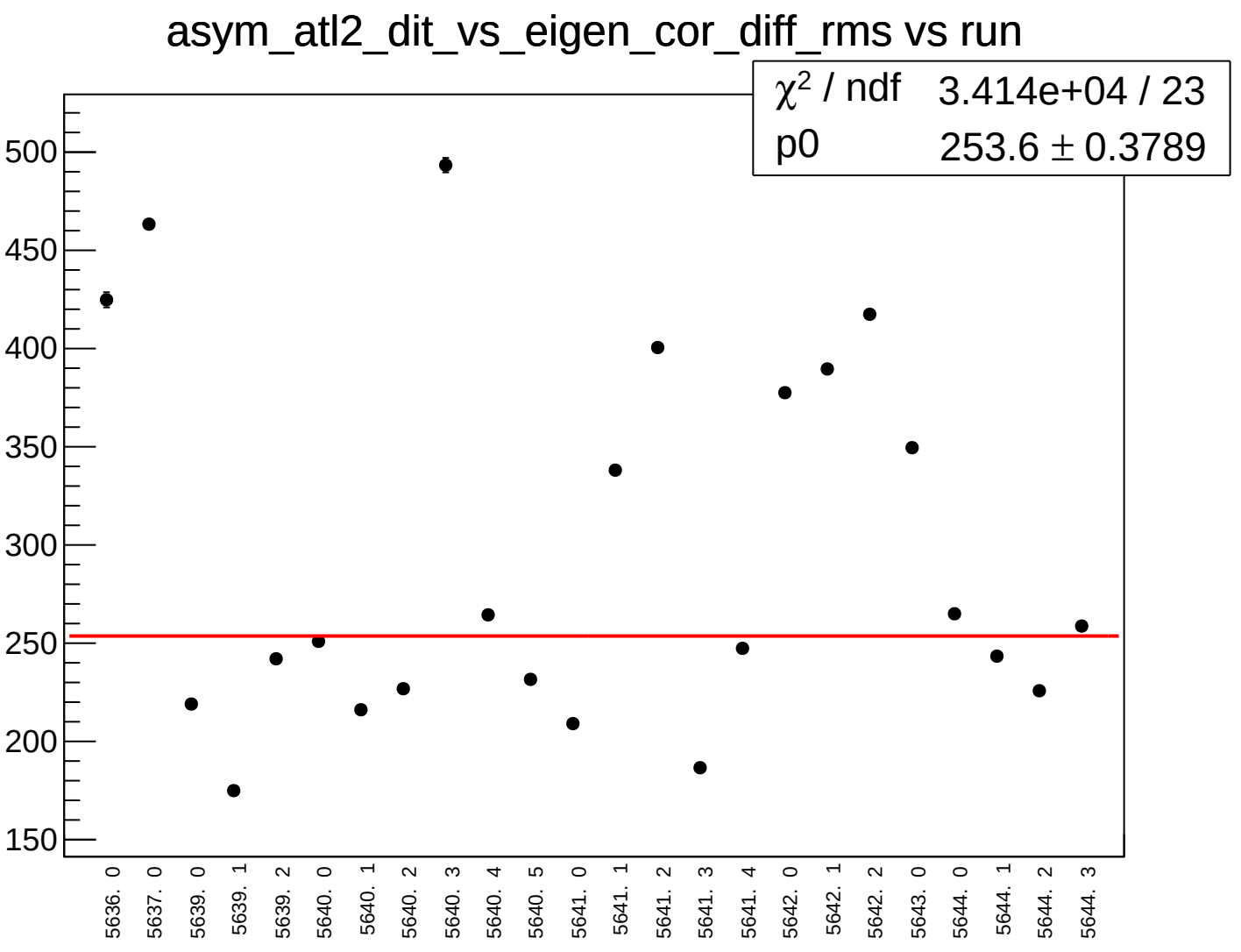

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 2.474e+05 / 23
p0 3.025e−10 ± 6.243e−13
1
0.8
0.6
0.4
0.2
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

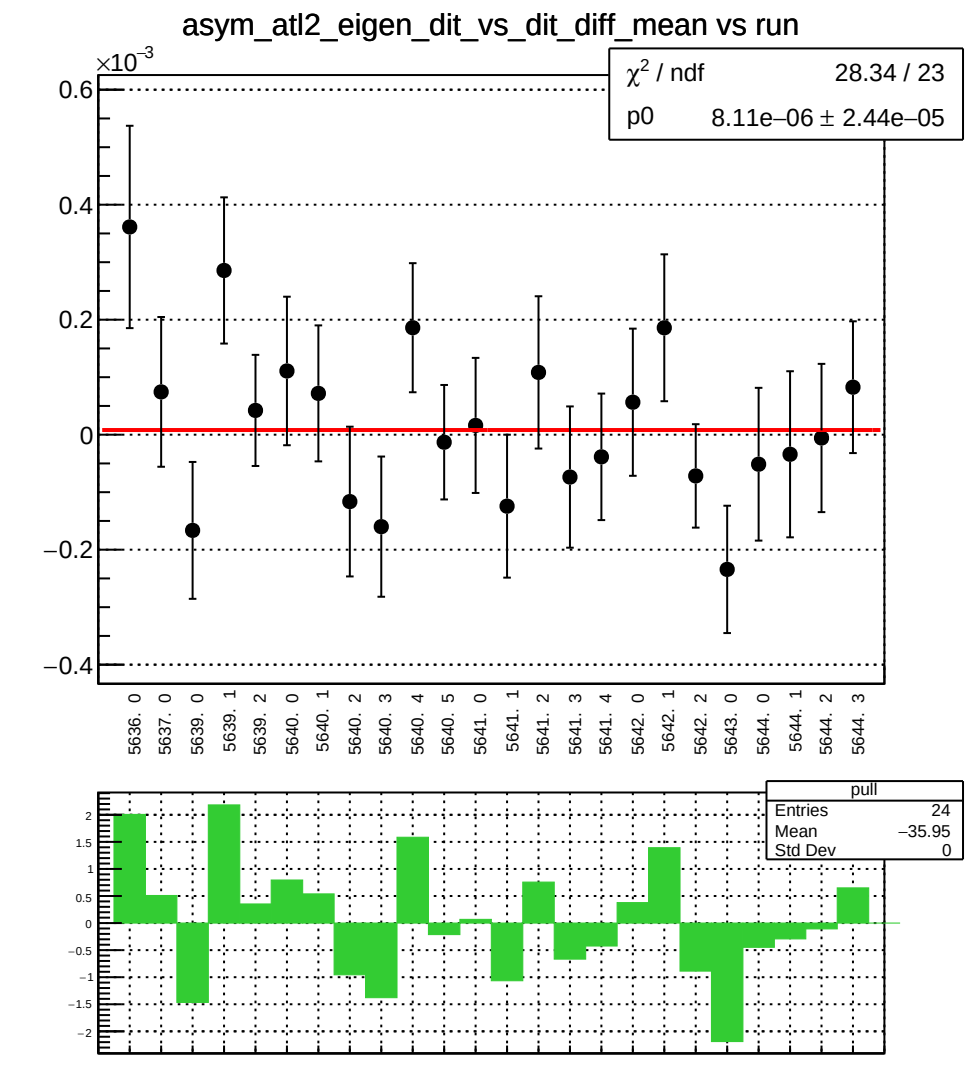

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 24.61 / 23
p0 −0.5289 ± 0.5359
10
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 56.63
Std Dev 0
2
1
0
−1
−2

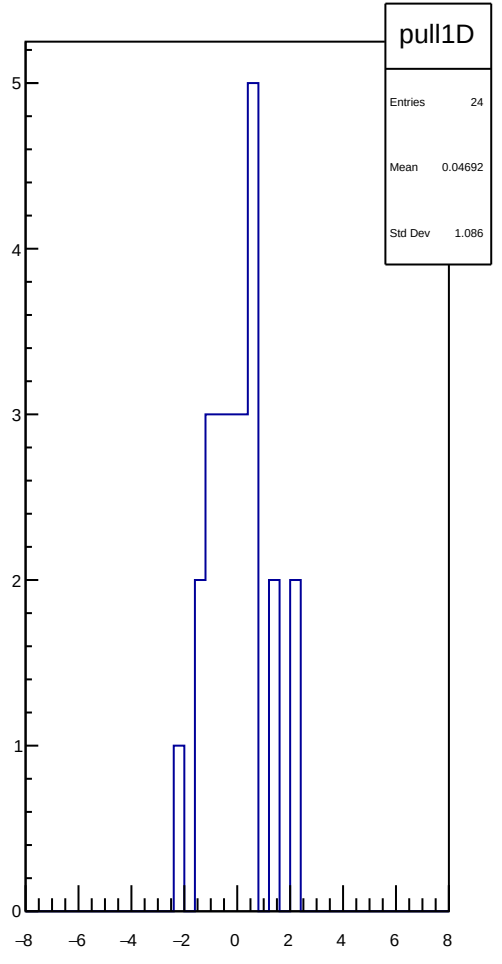

pull1D
Entries 24
Mean −0.03762
Std Dev 1.012
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

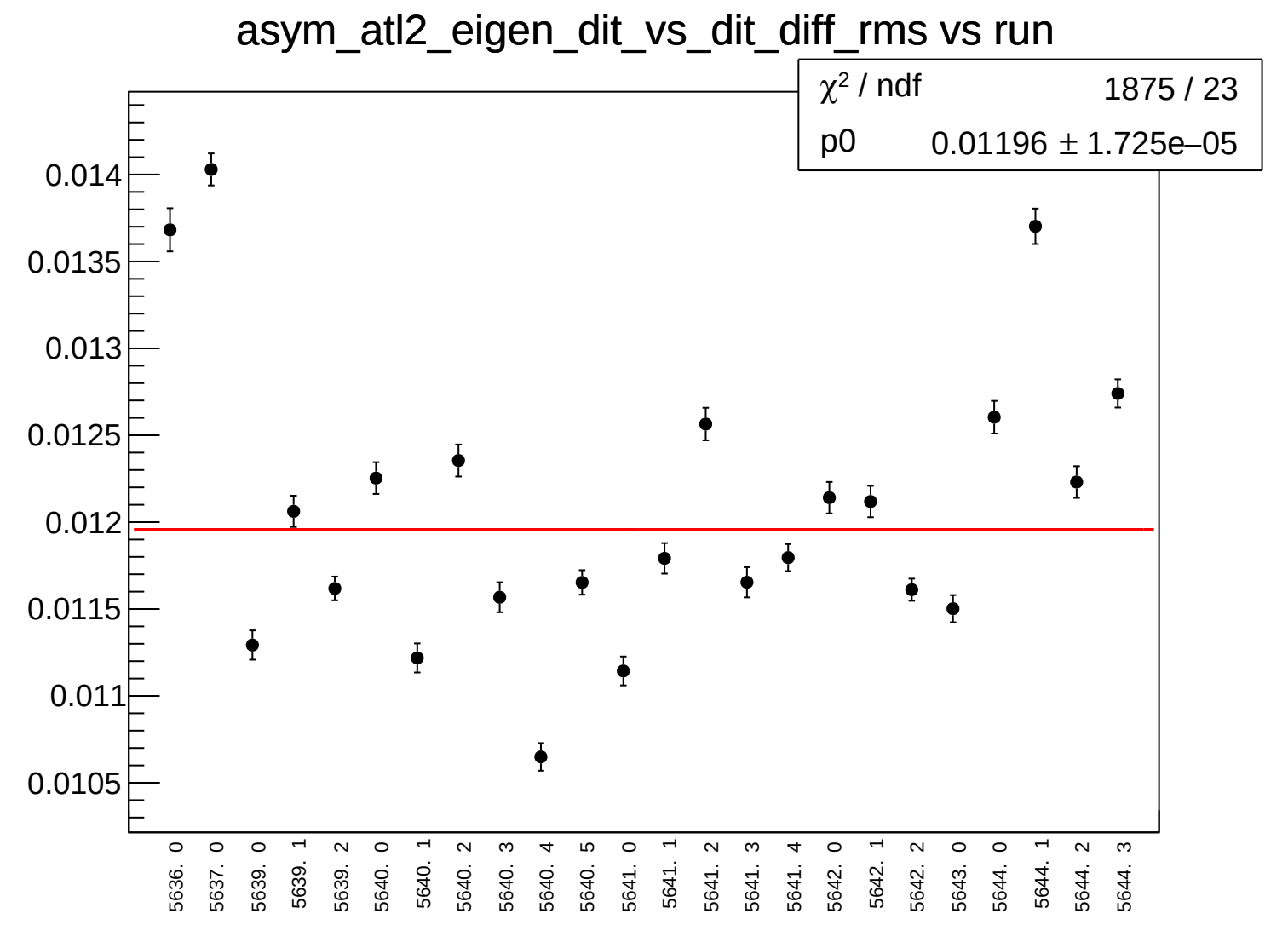

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 3.414e+04 / 23
p0 253.6 ± 0.3789
500
450
400
350
300
250
200
150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

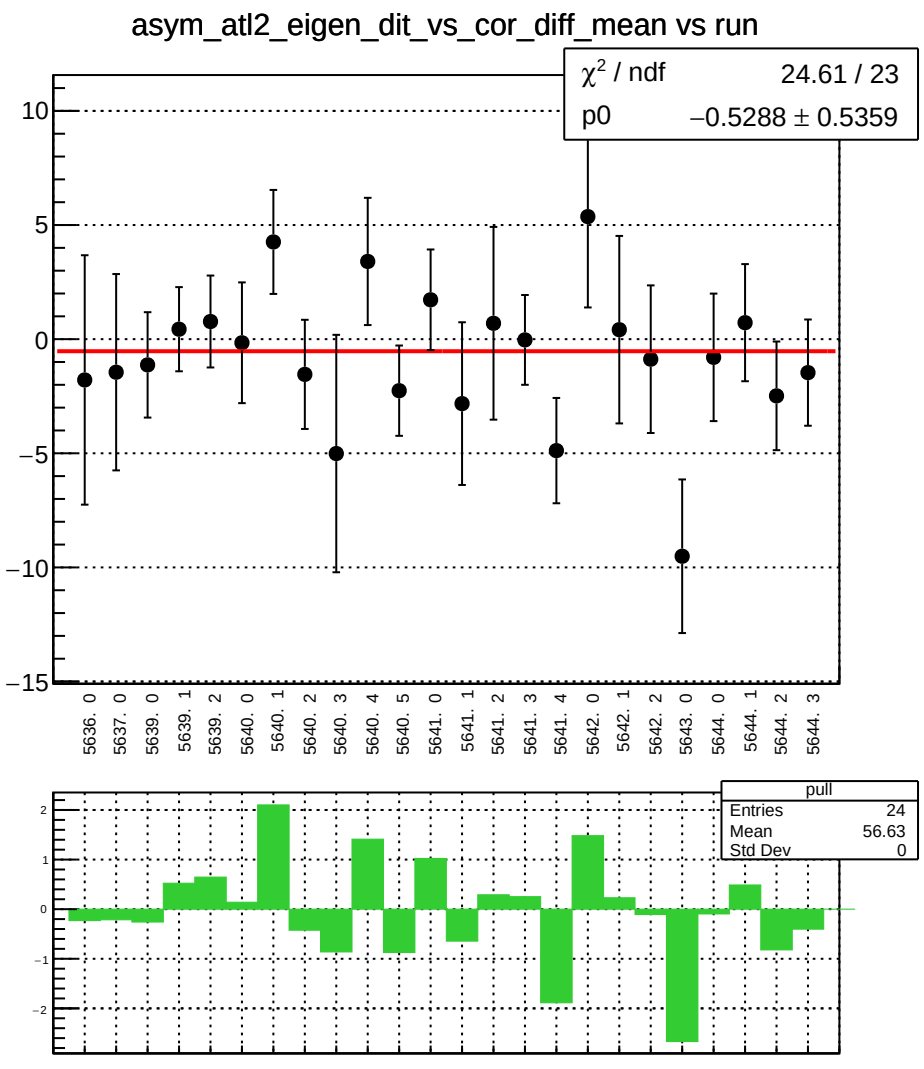

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.61 / 23
p0 −0.5289 ± 0.5359
10
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 56.63
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 24
Mean −0.03762
Std Dev 1.012
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

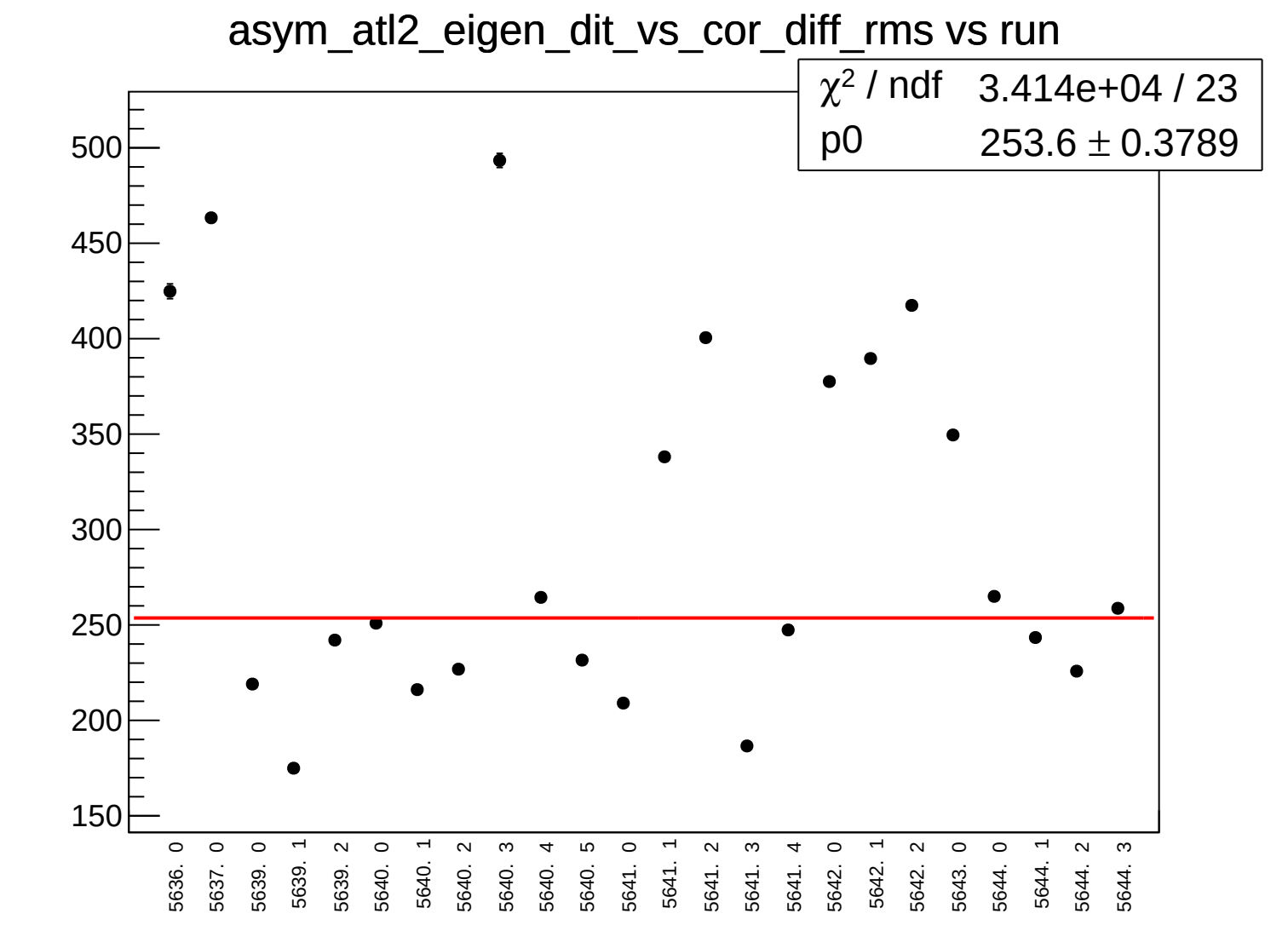

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.414e+04 / 23
p0 253.6 ± 0.3789
500
450
400
350
300
250
200
150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

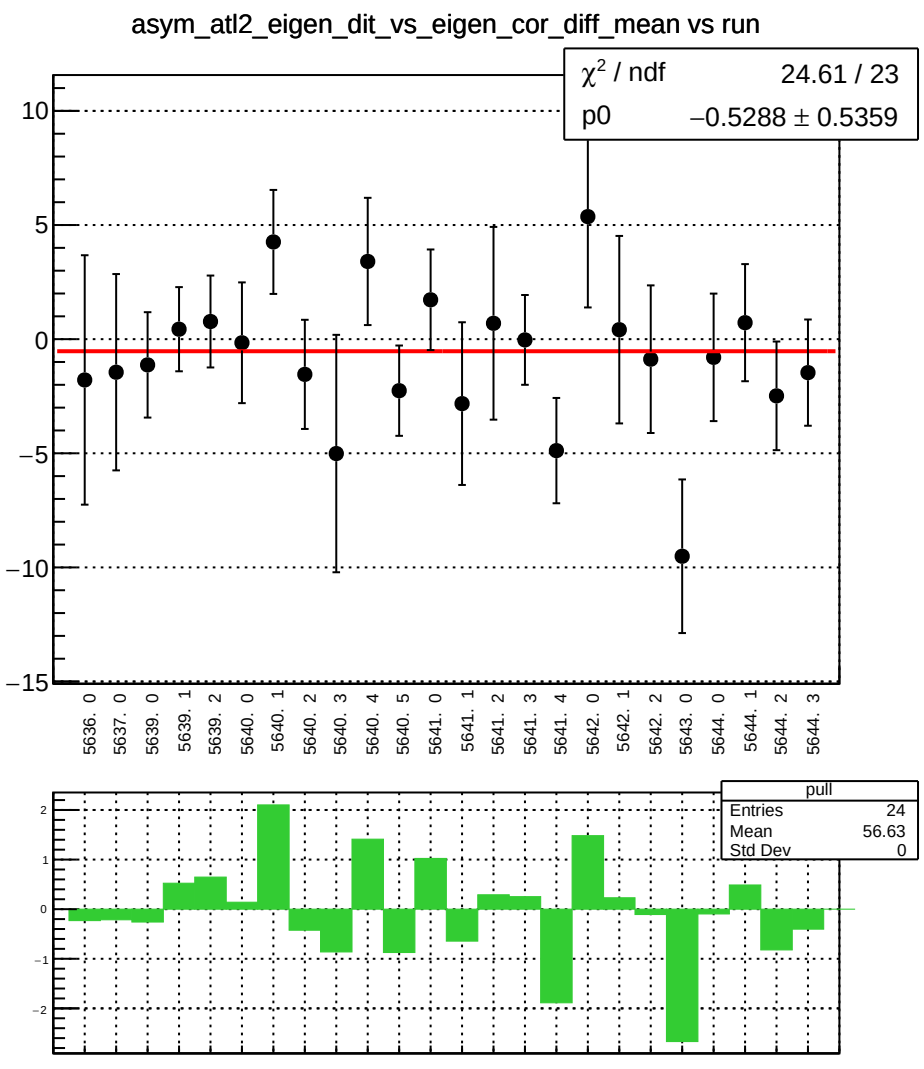

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 28.34 / 23
p0 8.11e–06 ± 2.44e–05
0.6
0.4
0.2
0
–0.2
–0.4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean –35.95
Std Dev 0
2
1.5
1
0.5
0
–0.5
–1
–1.5
–2

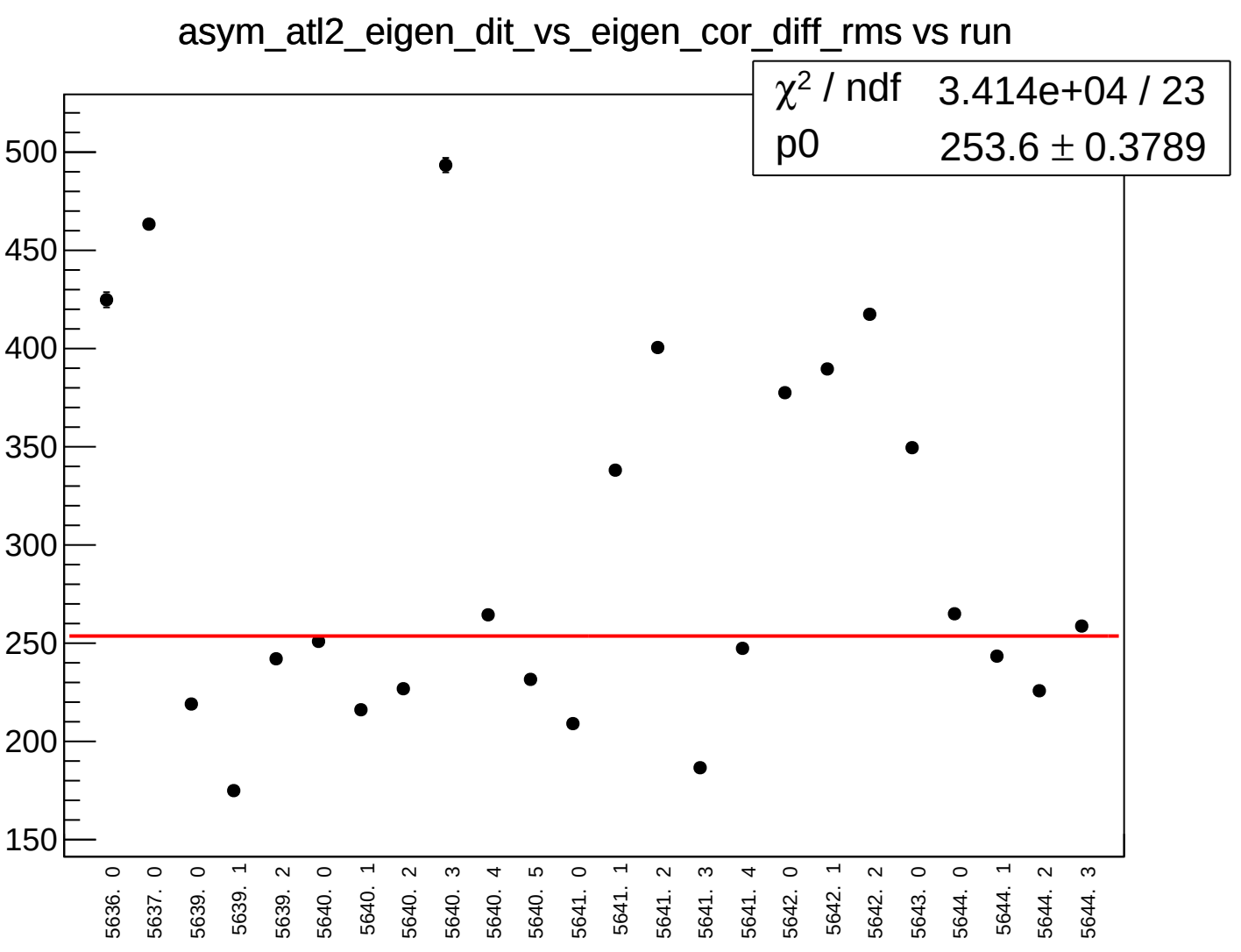

pull1D
Entries 24
Mean 0.04692
Std Dev 1.086
5
4
3
2
1
0
–8
–6
–4
–2
0
2
4
6
8

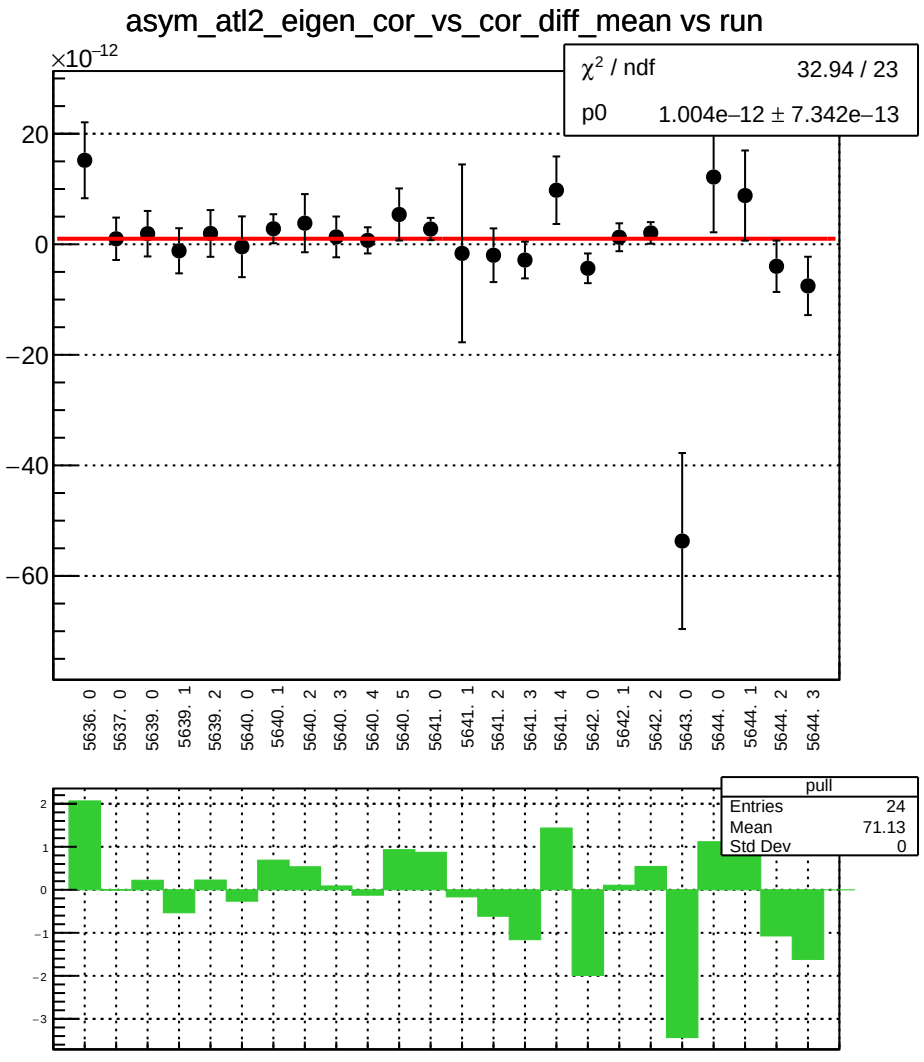

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1875 / 23
p0 0.01196 ± 1.725e–05
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

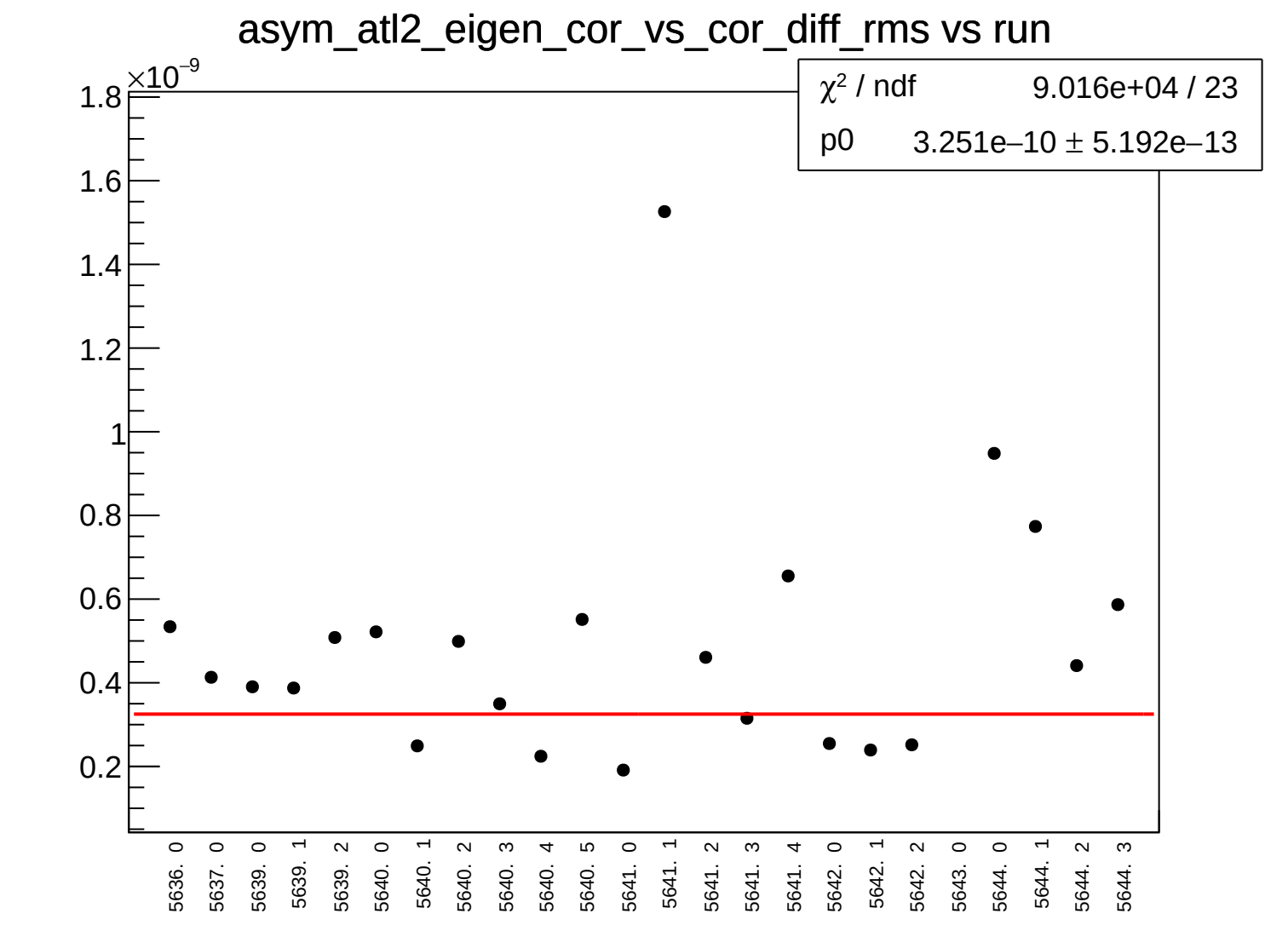

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 24.61 / 23
p0 −0.5288 ± 0.5359
10
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 56.63
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 24
Mean −0.03763
Std Dev 1.012
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

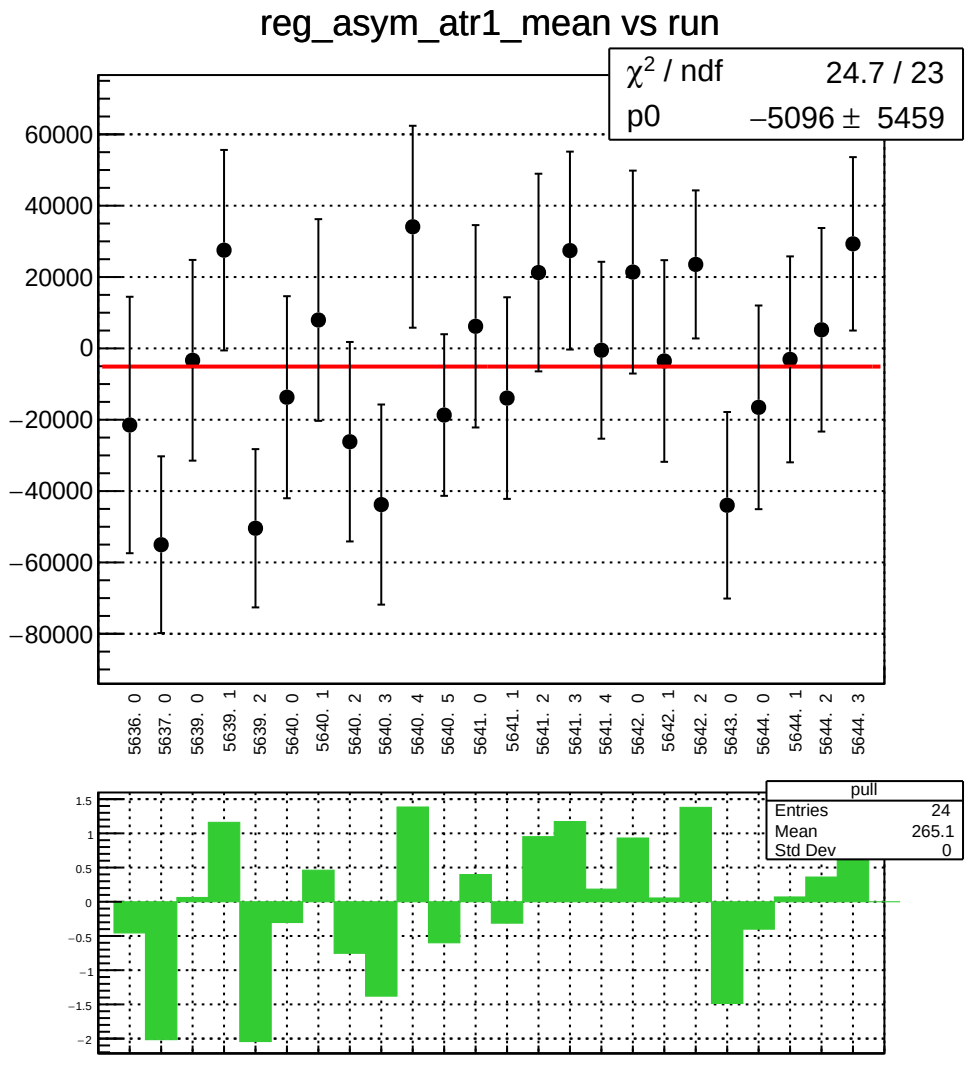

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.414e+04 / 23
p0 253.6 ± 0.3789
500
450
400
350
300
250
200
150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

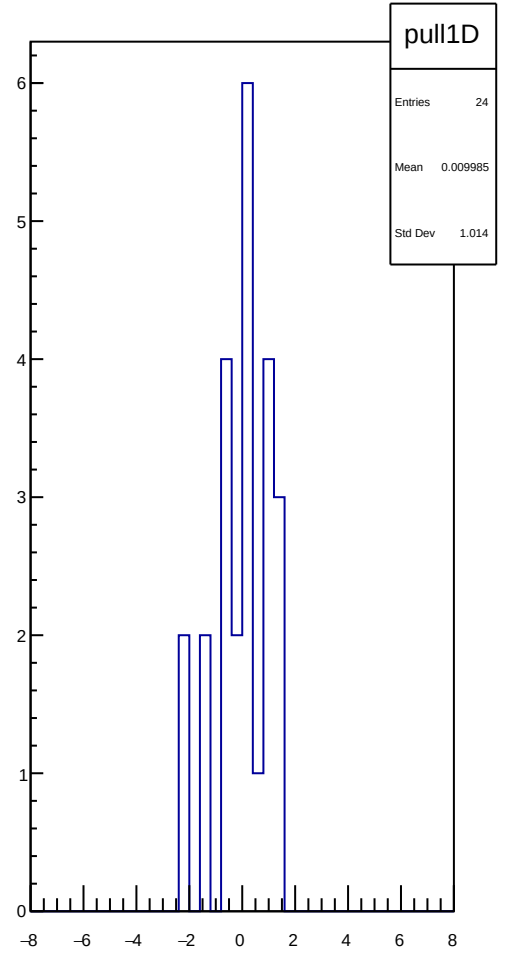

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.61 / 23
p0 −0.5288 ± 0.5359
10
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 56.63
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 24
Mean −0.03763
Std Dev 1.012
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

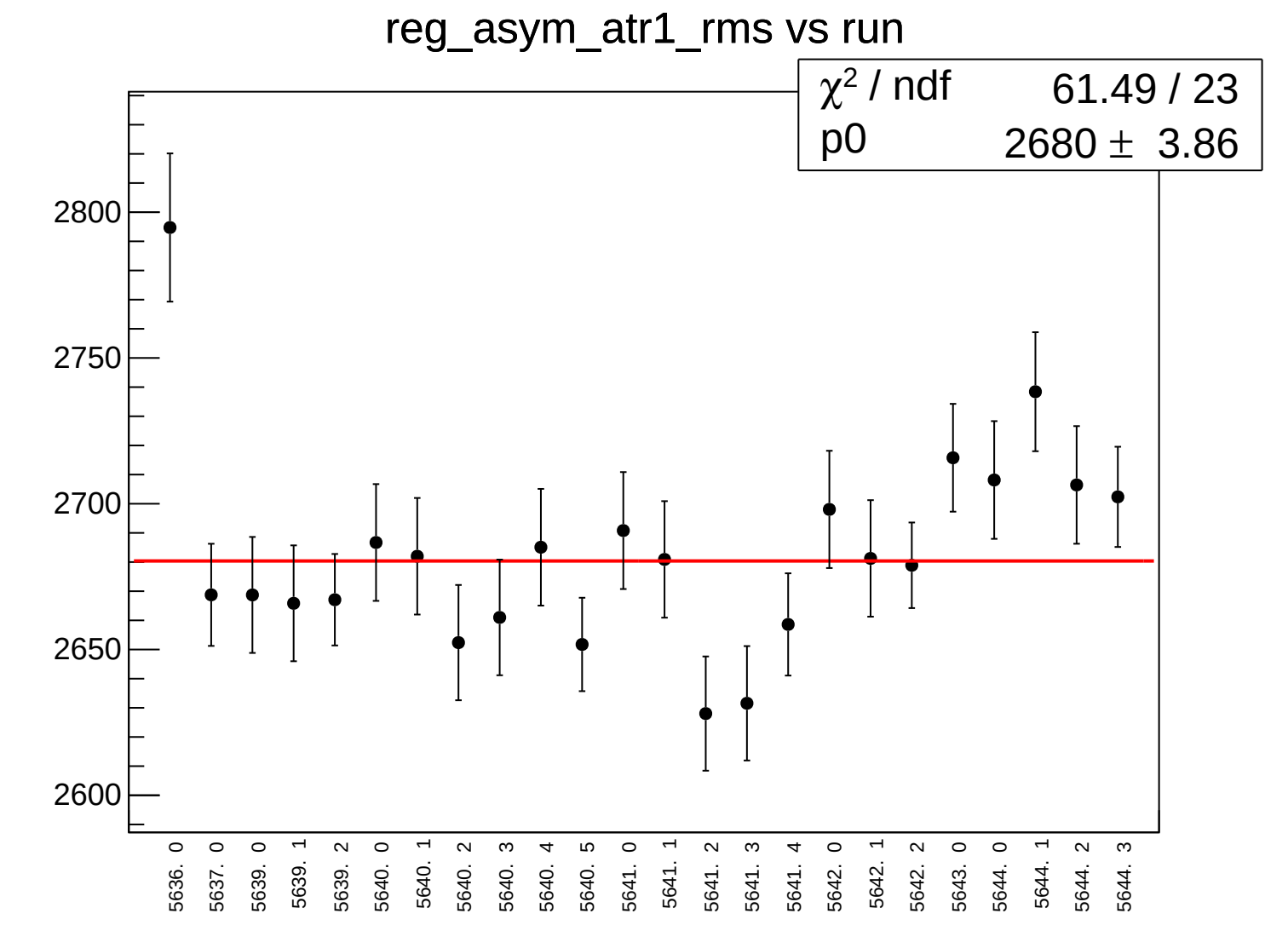

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.414e+04 / 23
p0 253.6 ± 0.3789
500
450
400
350
300
250
200
150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

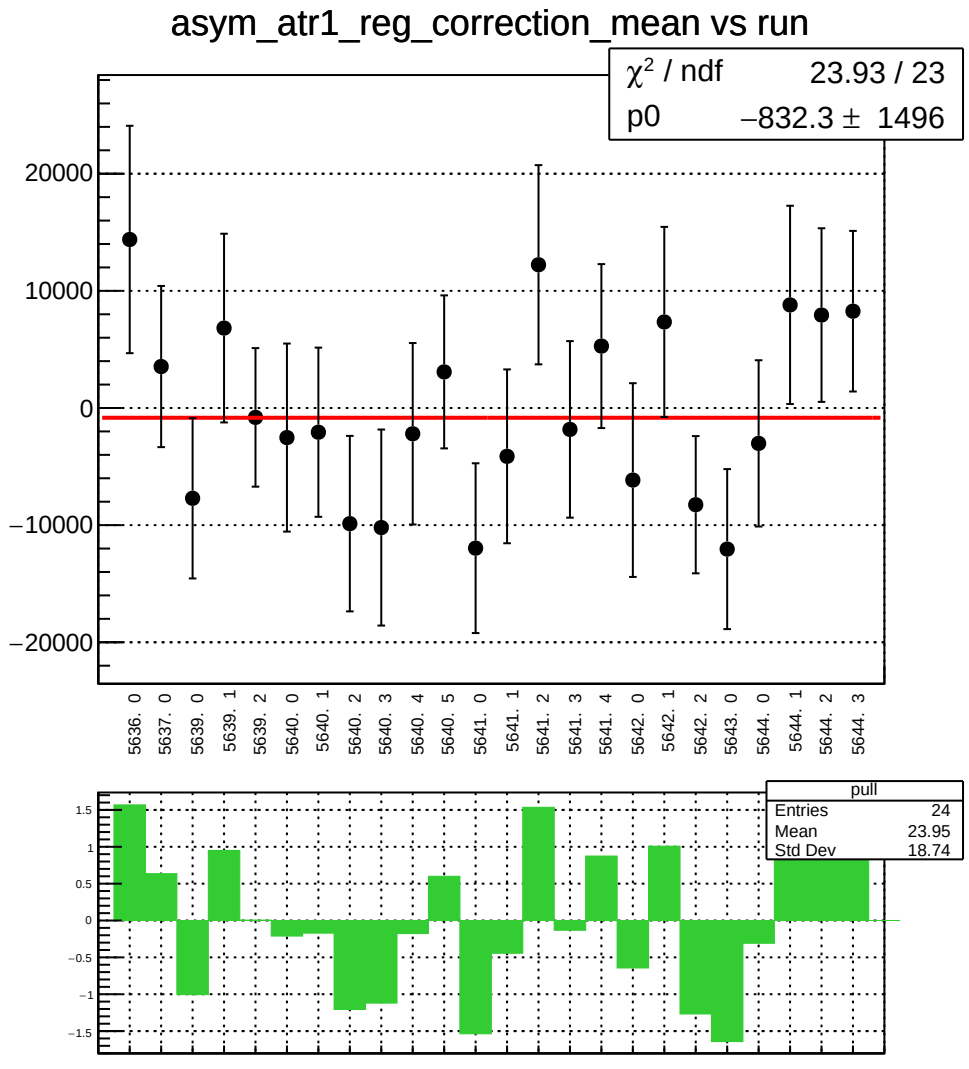

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 32.94 / 23
p0 1.004e−12 ± 7.342e−13
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 71.13
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean −0.04937
Std Dev 1.171
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

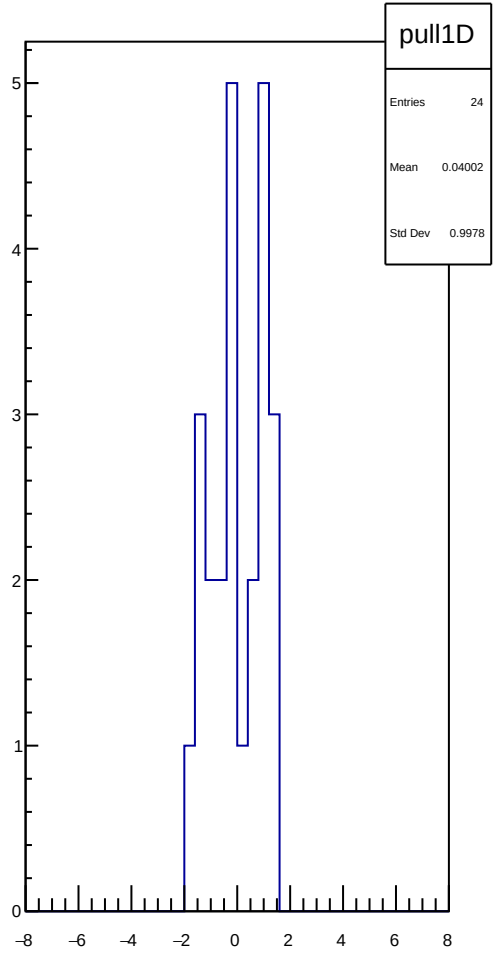

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.016e+04 / 23
p0 3.251e−10 ± 5.192e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

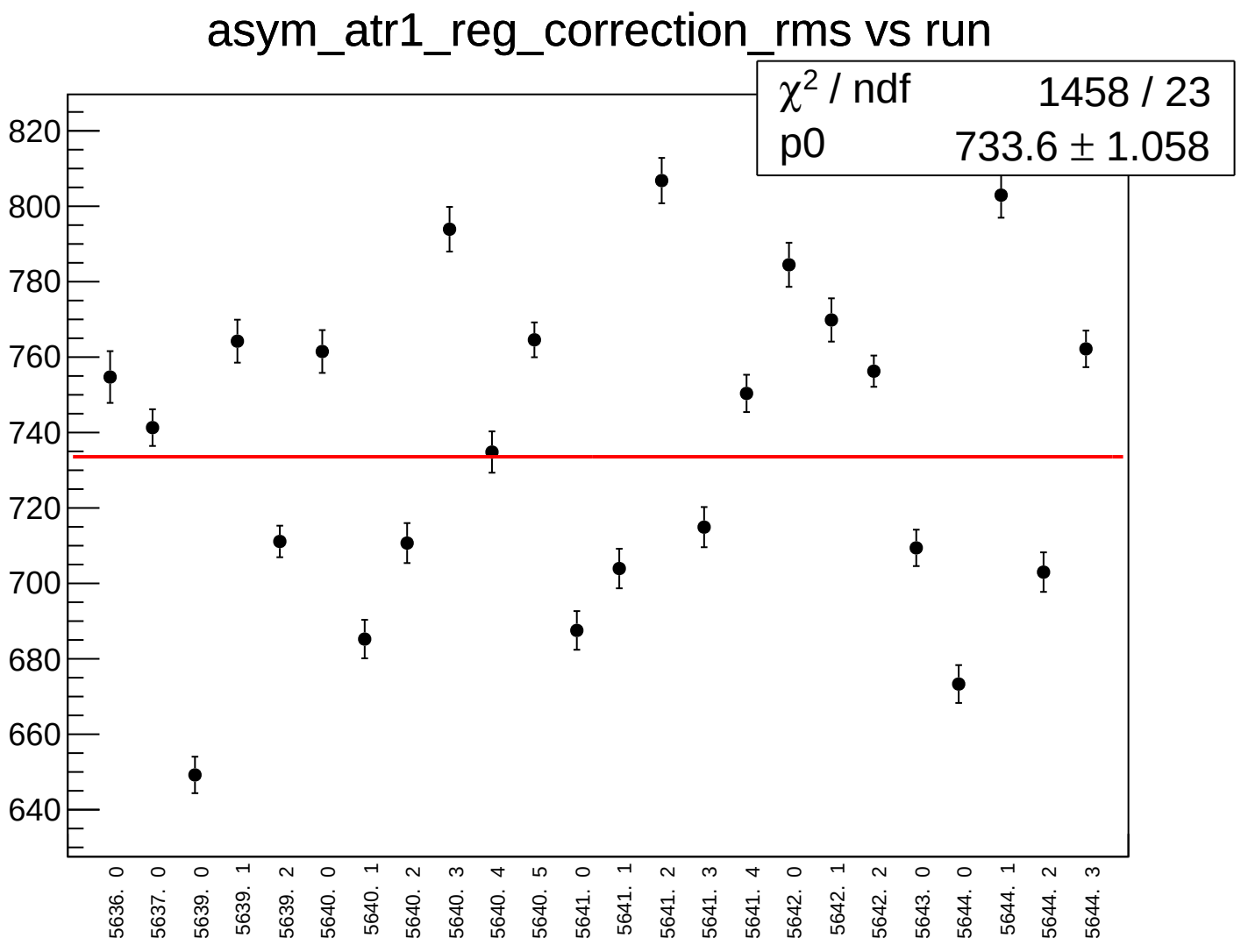

reg_asym_atr1_mean vs run
χ² / ndf 24.7 / 23
p0 −5096 ± 5459
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 265.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

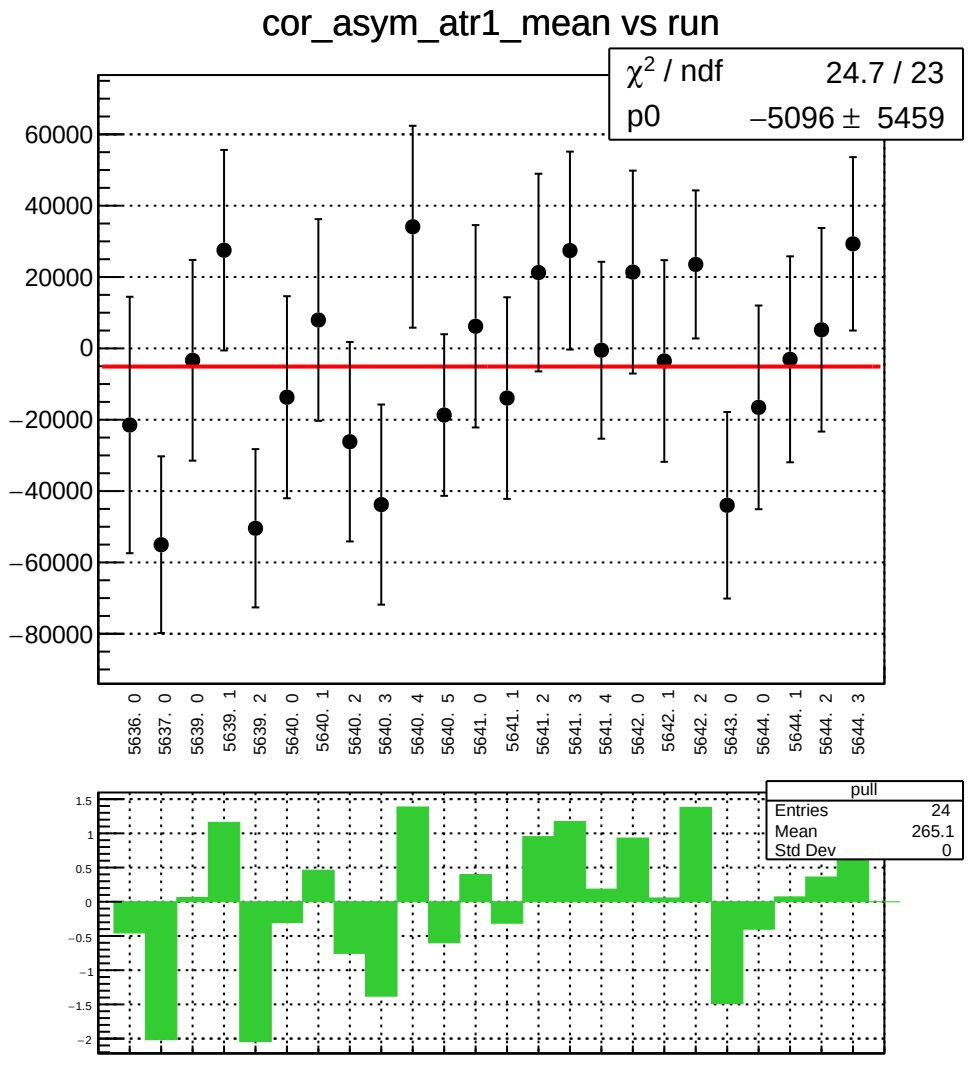

pull1D
Entries 24
Mean 0.009985
Std Dev 1.014
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

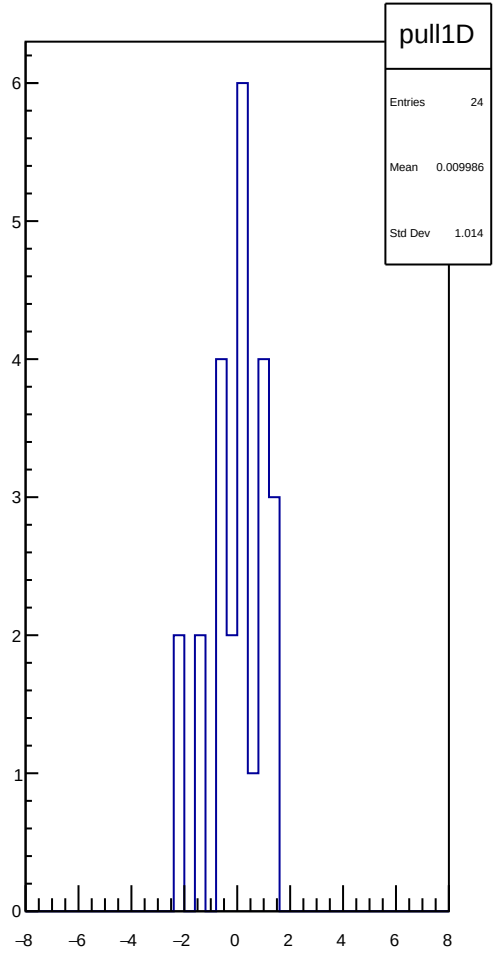

reg_asym_atr1_rms vs run
χ² / ndf 61.49 / 23
p0 2680 ± 3.86
2800
2750
2700
2650
2600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

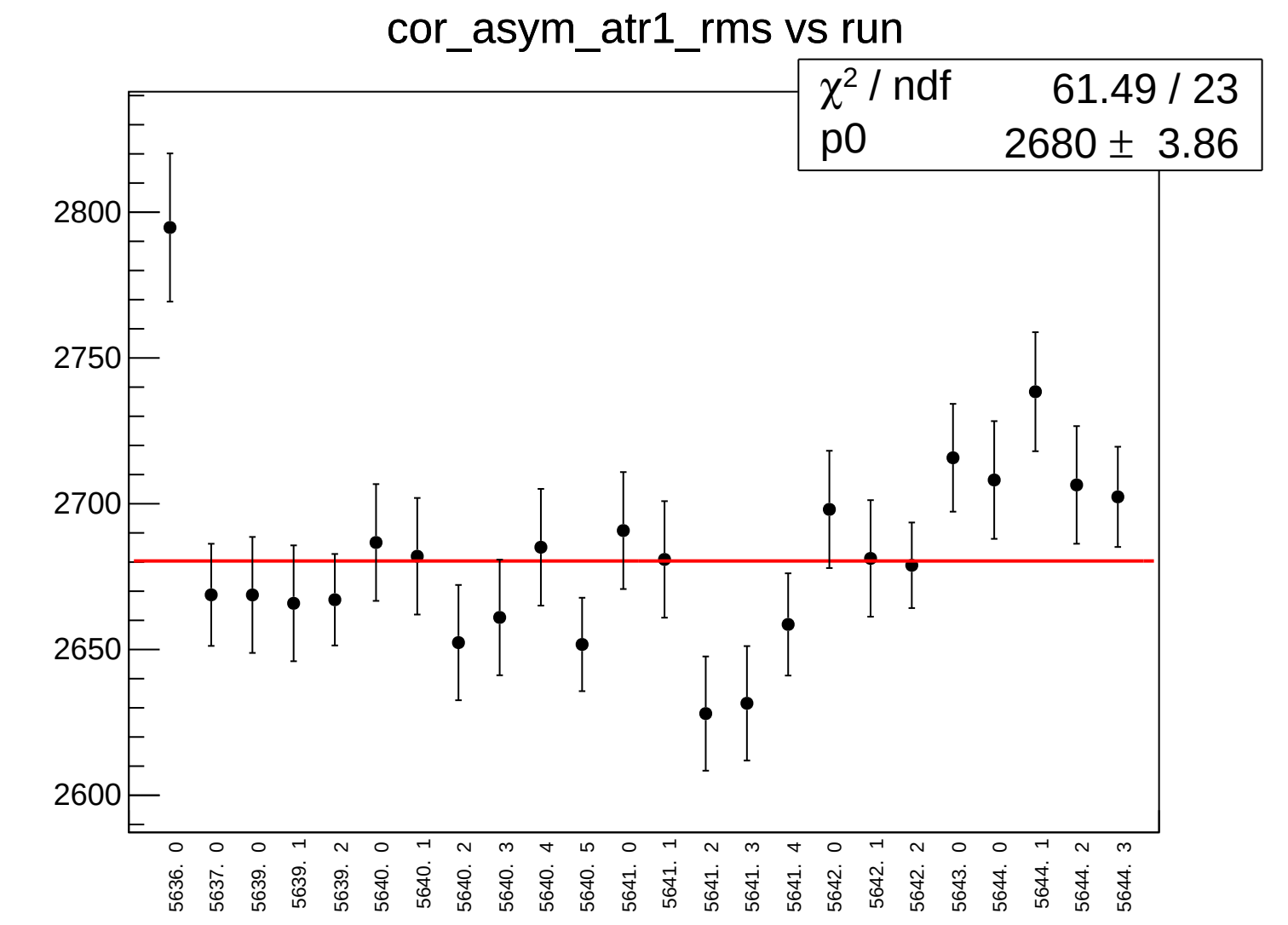

asym_atr1_reg_correction_mean vs run
χ² / ndf 23.93 / 23
p0 −832.3 ± 1496
20000
10000
0
−10000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 23.95
Std Dev 18.74
1.5
1
0.5
0
−0.5
−1
−1.5

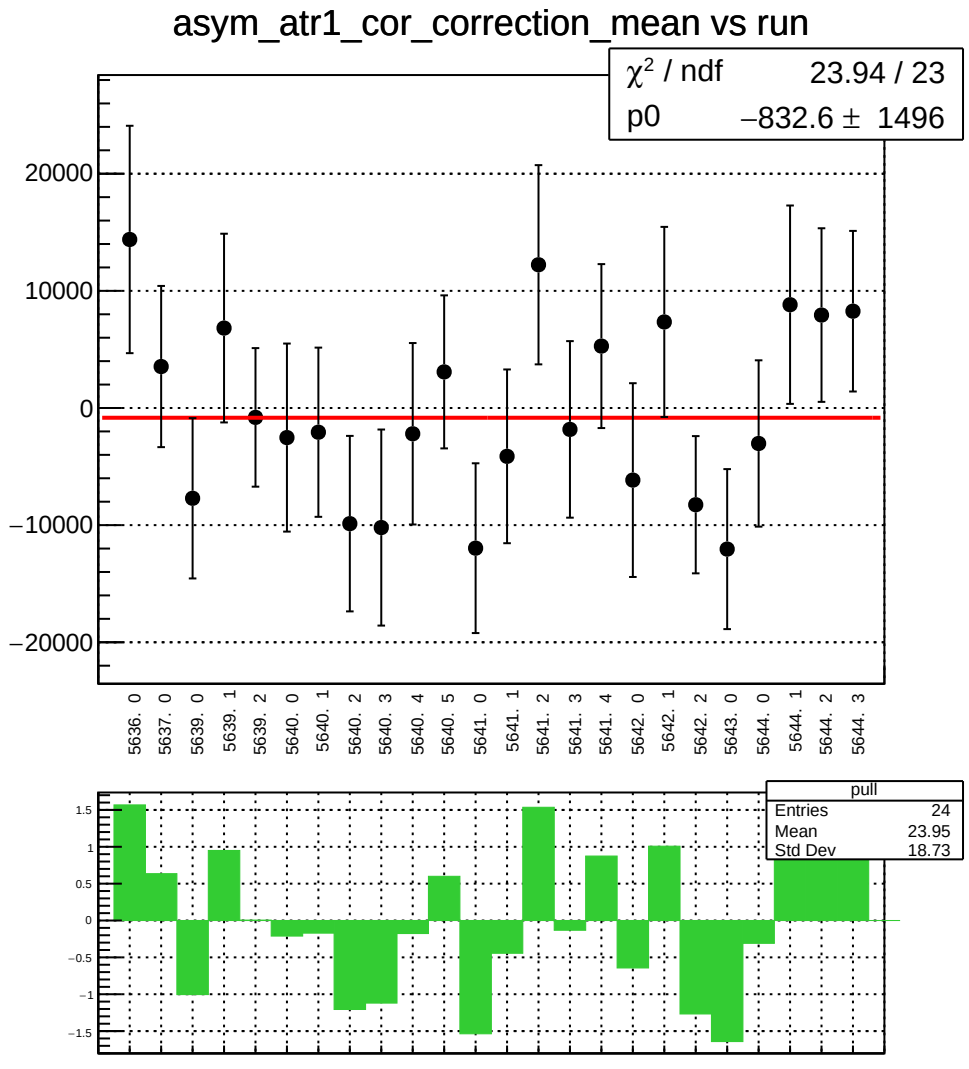

pull1D
Entries 24
Mean 0.04002
Std Dev 0.9978
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

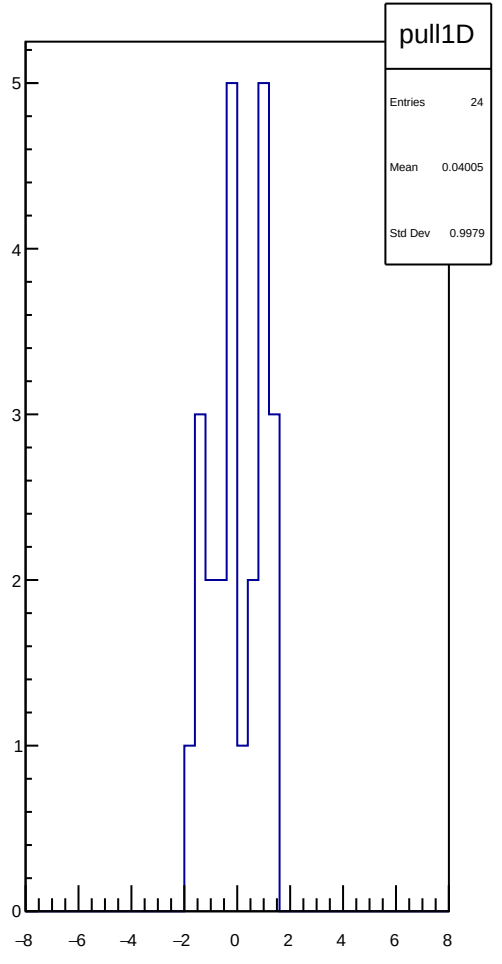

asym_atr1_reg_correction_rms vs run
χ² / ndf 1458 / 23
p0 733.6 ± 1.058
820
800
780
760
740
720
700
680
660
640
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

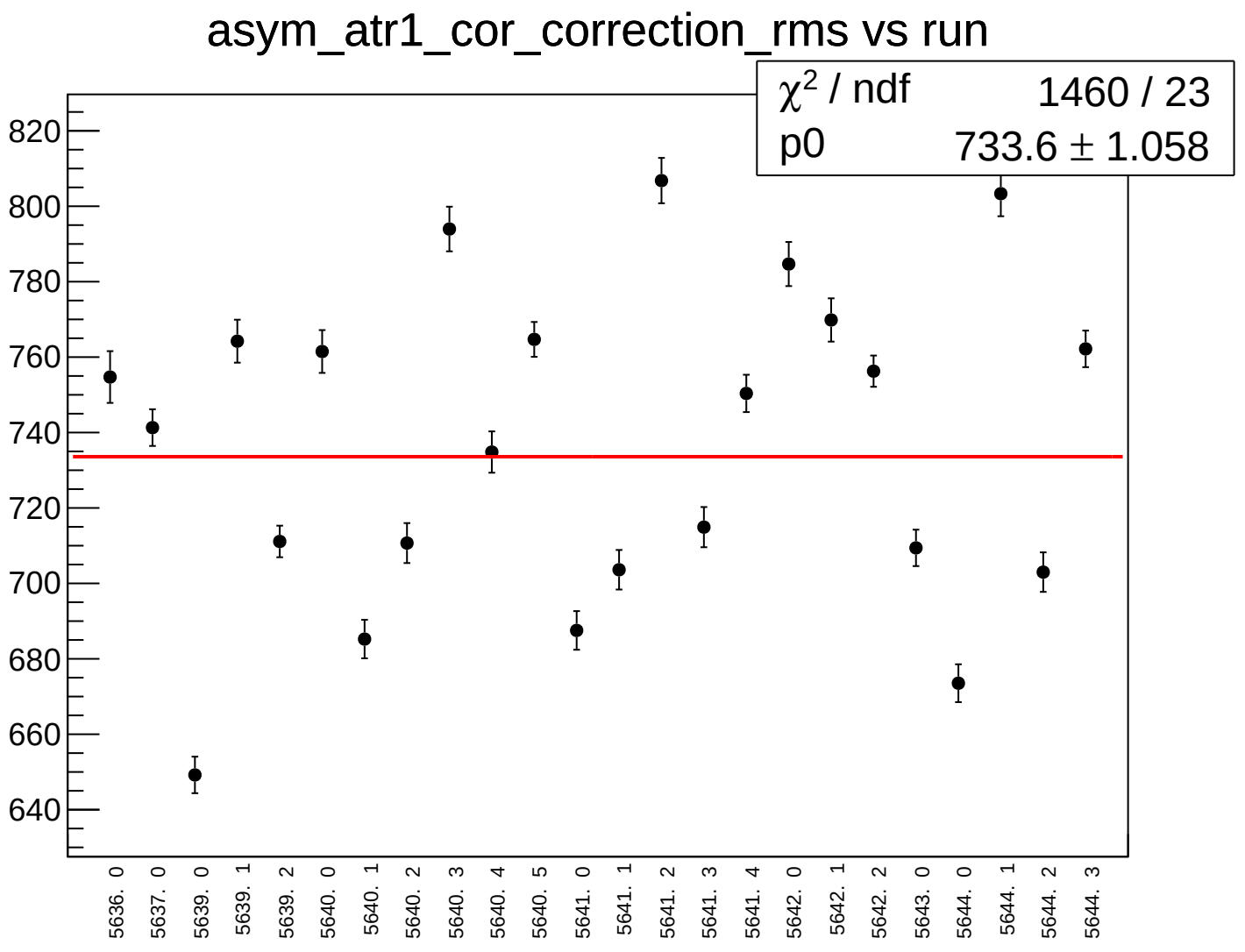

cor_asym_atr1_mean vs run
χ² / ndf 24.7 / 23
p0 −5096 ± 5459
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 265.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

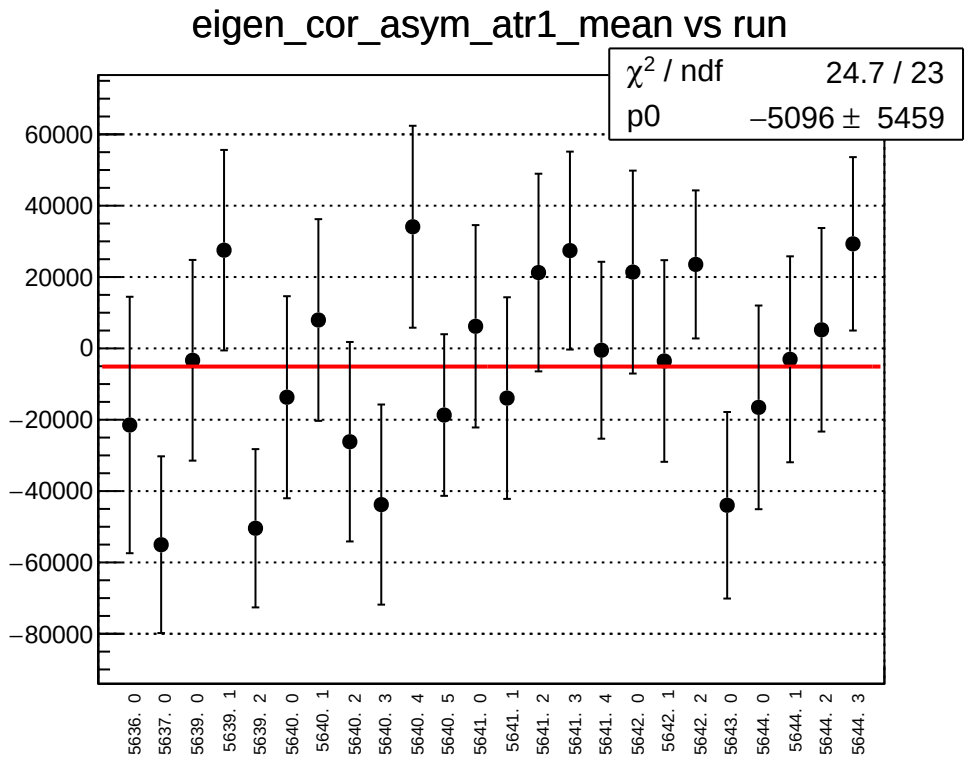

pull1D
Entries 24
Mean 0.009986
Std Dev 1.014
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

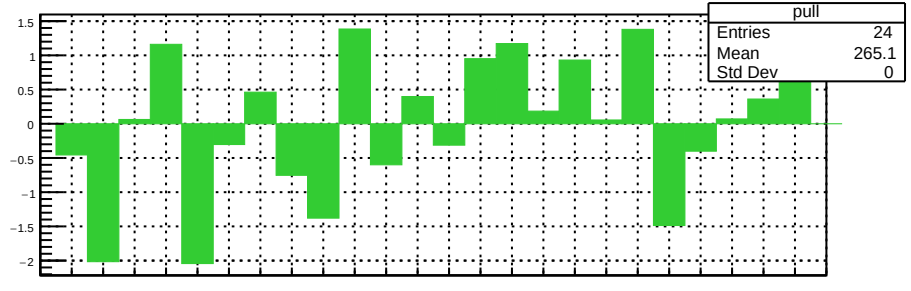

cor_asym_atr1_rms vs run
χ² / ndf 61.49 / 23
p0 2680 ± 3.86
2800
2750
2700
2650
2600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

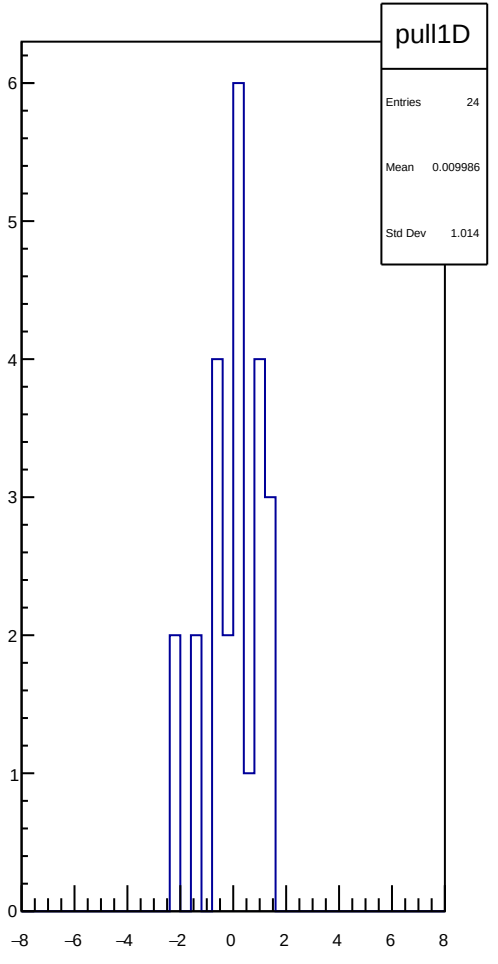

asym_atr1_cor_correction_mean vs run
χ² / ndf 23.94 / 23
p0 −832.6 ± 1496
20000
10000
0
−10000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 23.95
Std Dev 18.73
1.5
1
0.5
0
−0.5
−1
−1.5

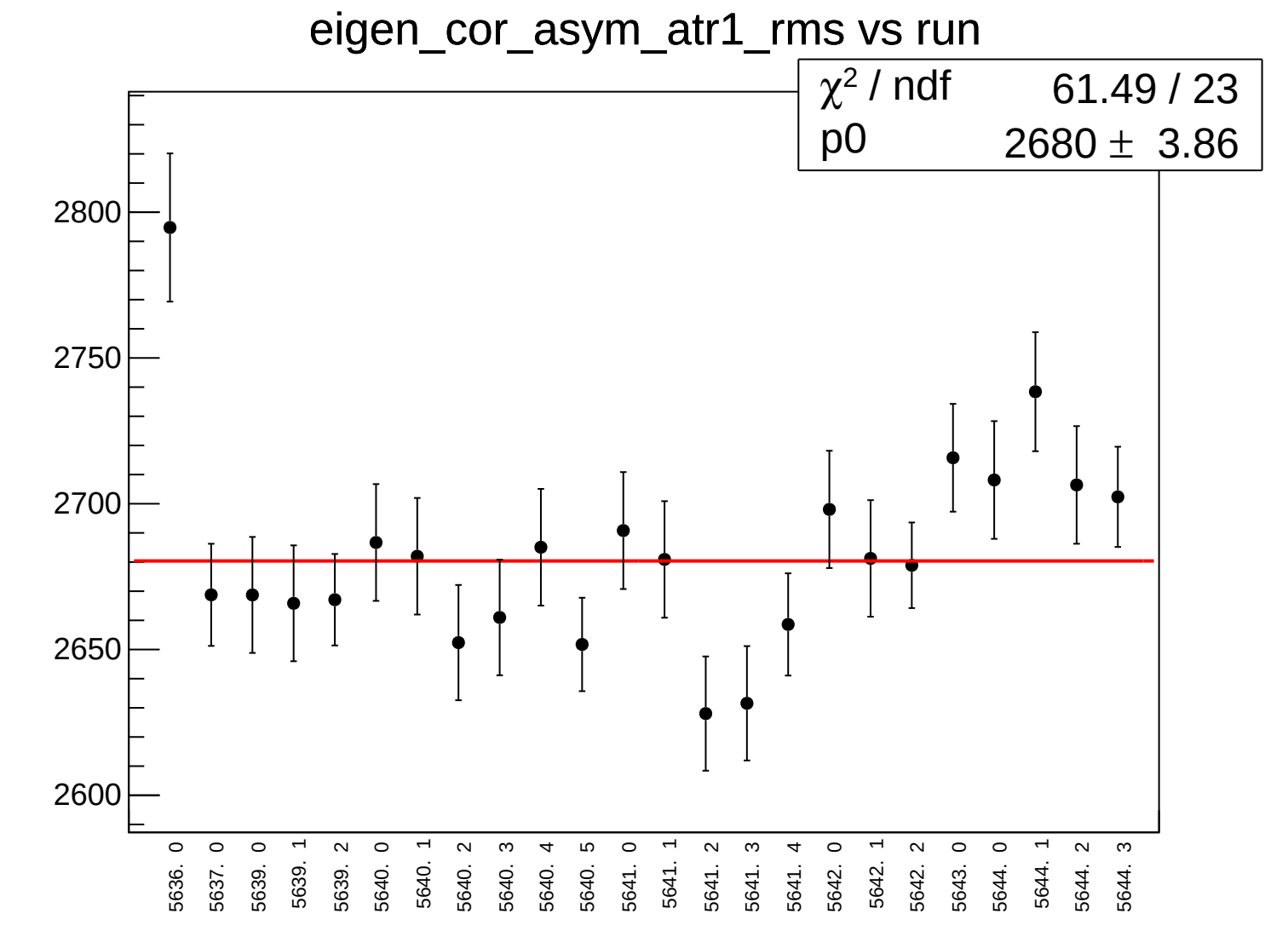

pull1D
Entries 24
Mean 0.04005
Std Dev 0.9979
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

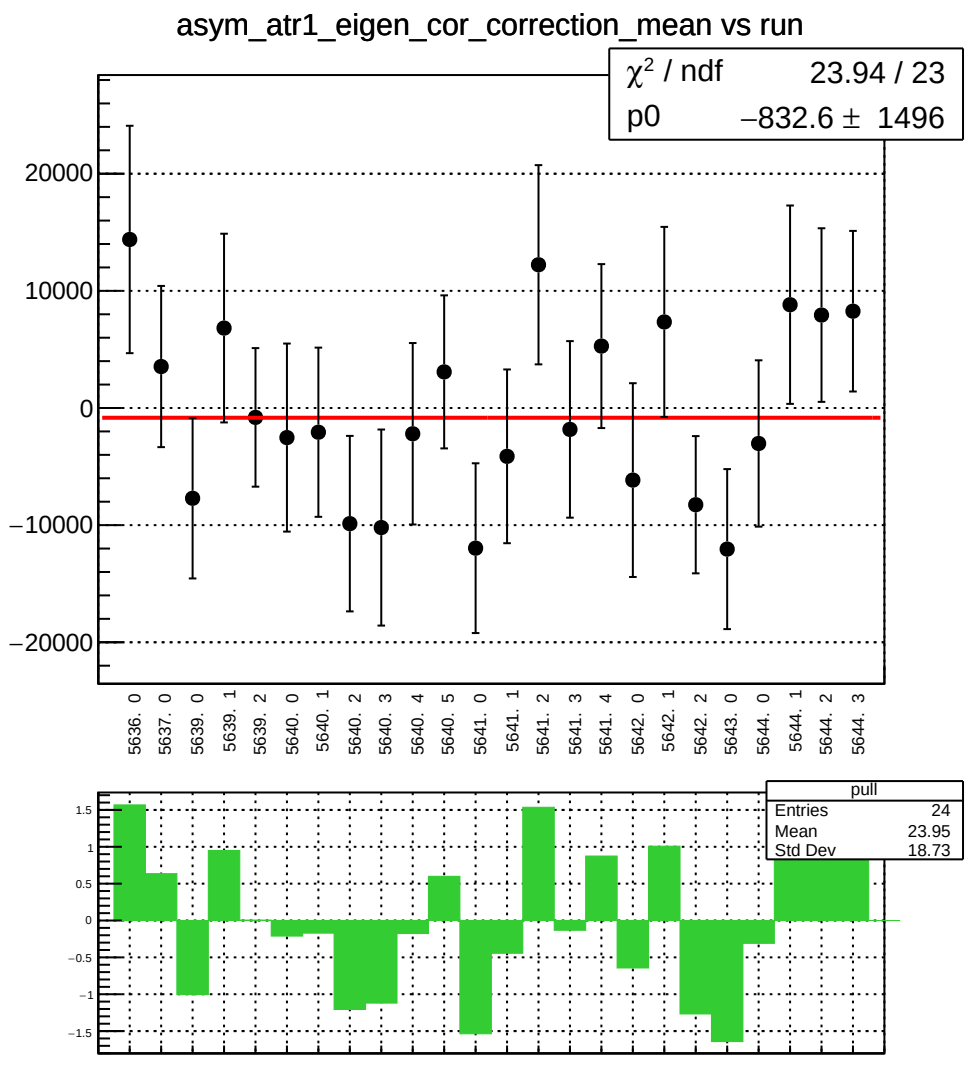

asym_atr1_cor_correction_rms vs run
χ² / ndf 1460 / 23
p0 733.6 ± 1.058
820
800
780
760
740
720
700
680
660
640
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

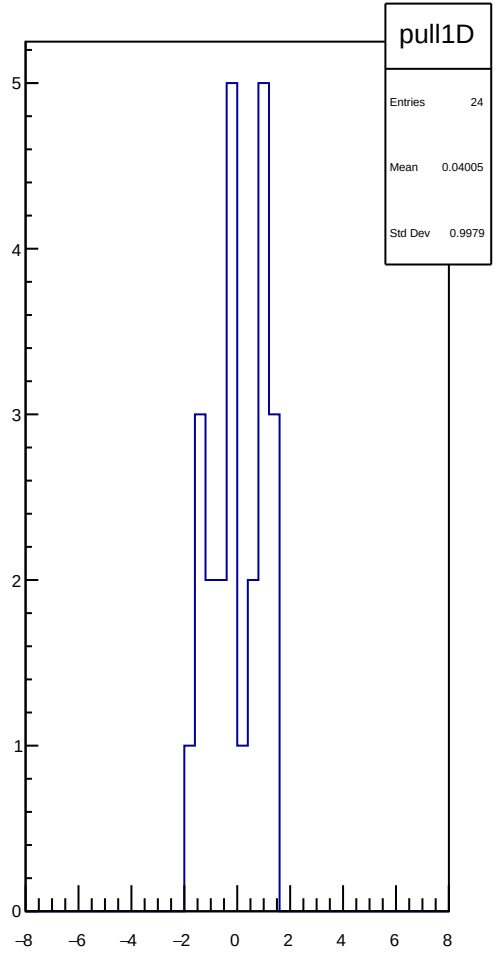

eigen_cor_asym_atr1_mean vs run
χ² / ndf 24.7 / 23
p0 −5096 ± 5459
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

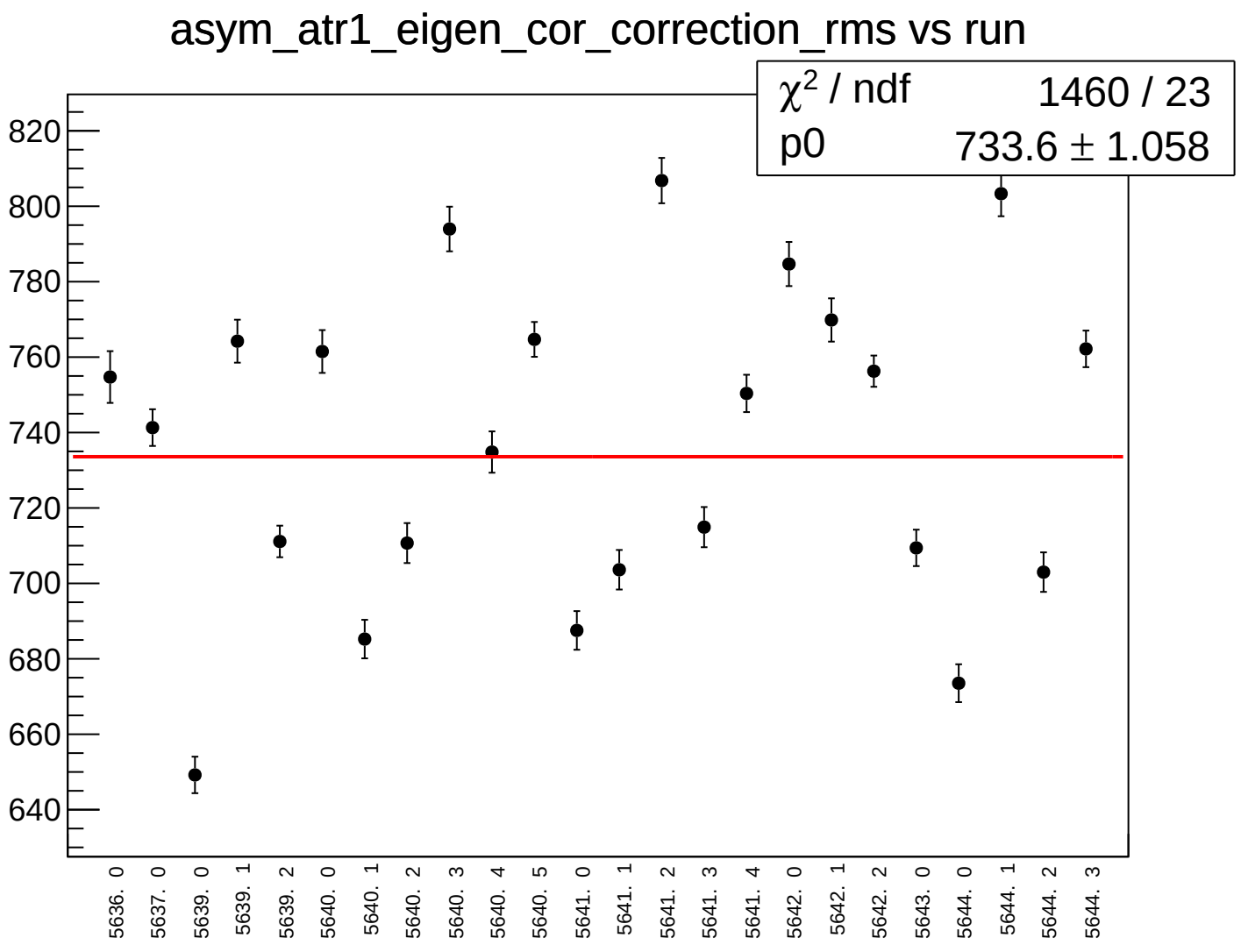

pull
Entries 24
Mean 265.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

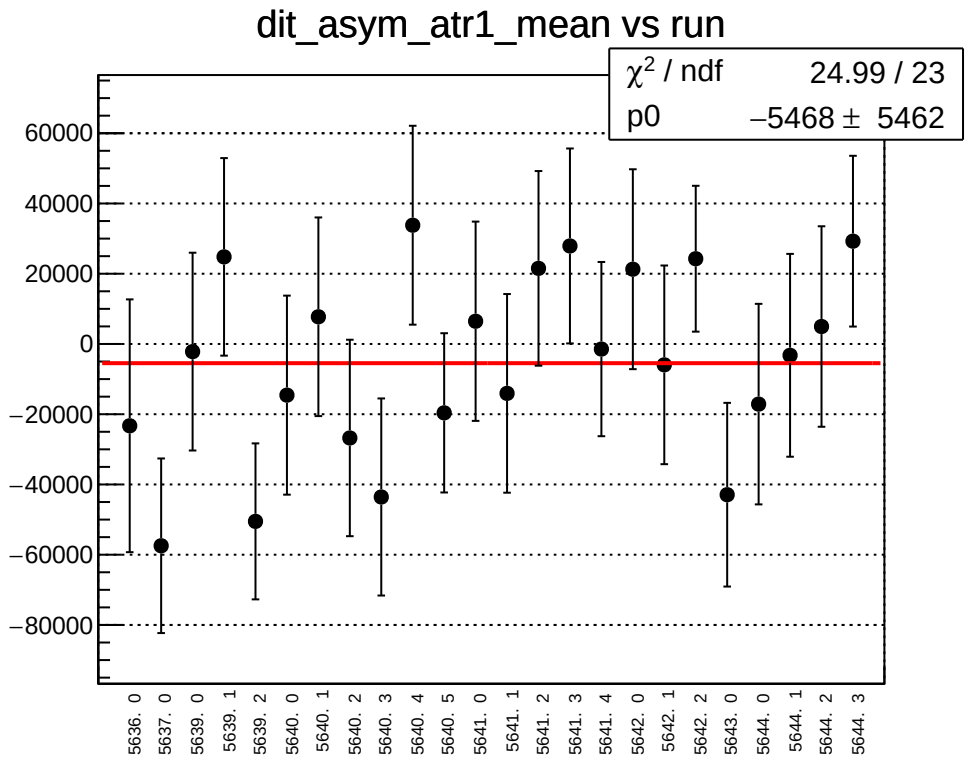

pull1D
Entries 24
Mean 0.009986
Std Dev 1.014
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

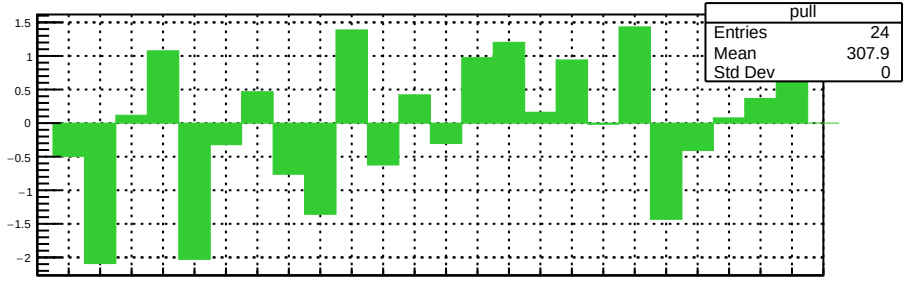

eigen_cor_asym_atr1_rms vs run
χ² / ndf 61.49 / 23
p0 2680 ± 3.86
2800
2750
2700
2650
2600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

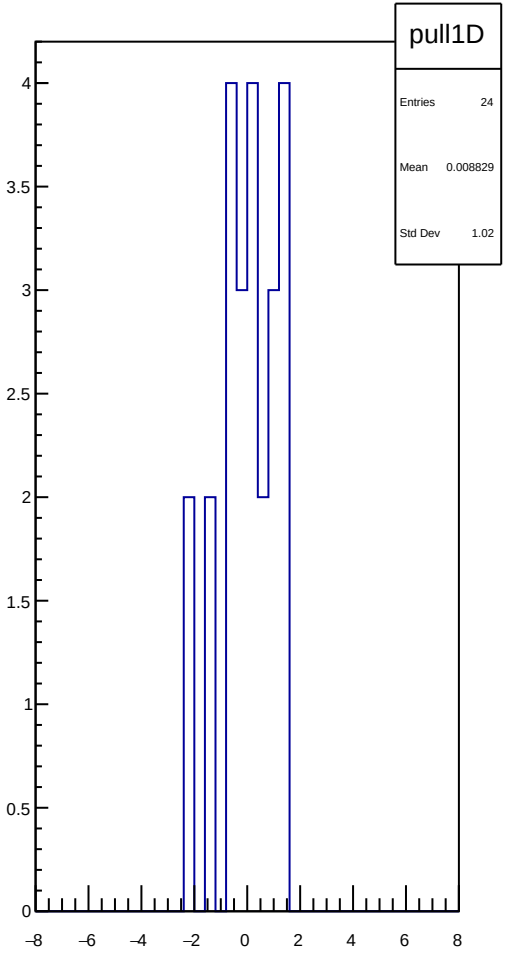

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 23.94 / 23
p0 −832.6 ± 1496
20000
10000
0
−10000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 23.95
Std Dev 18.73
1.5
1
0.5
0
−0.5
−1
−1.5

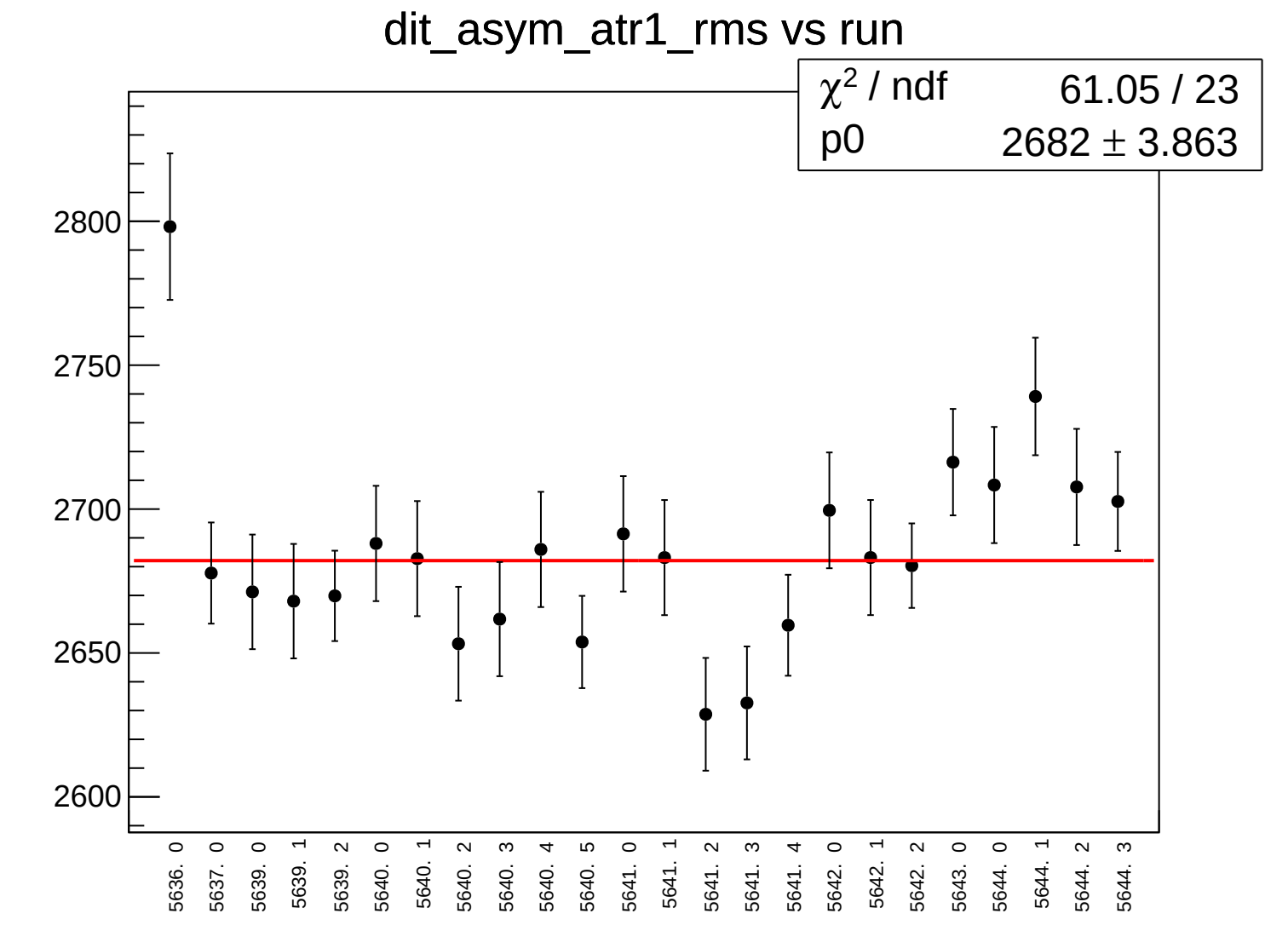

pull1D
Entries 24
Mean 0.04005
Std Dev 0.9979
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

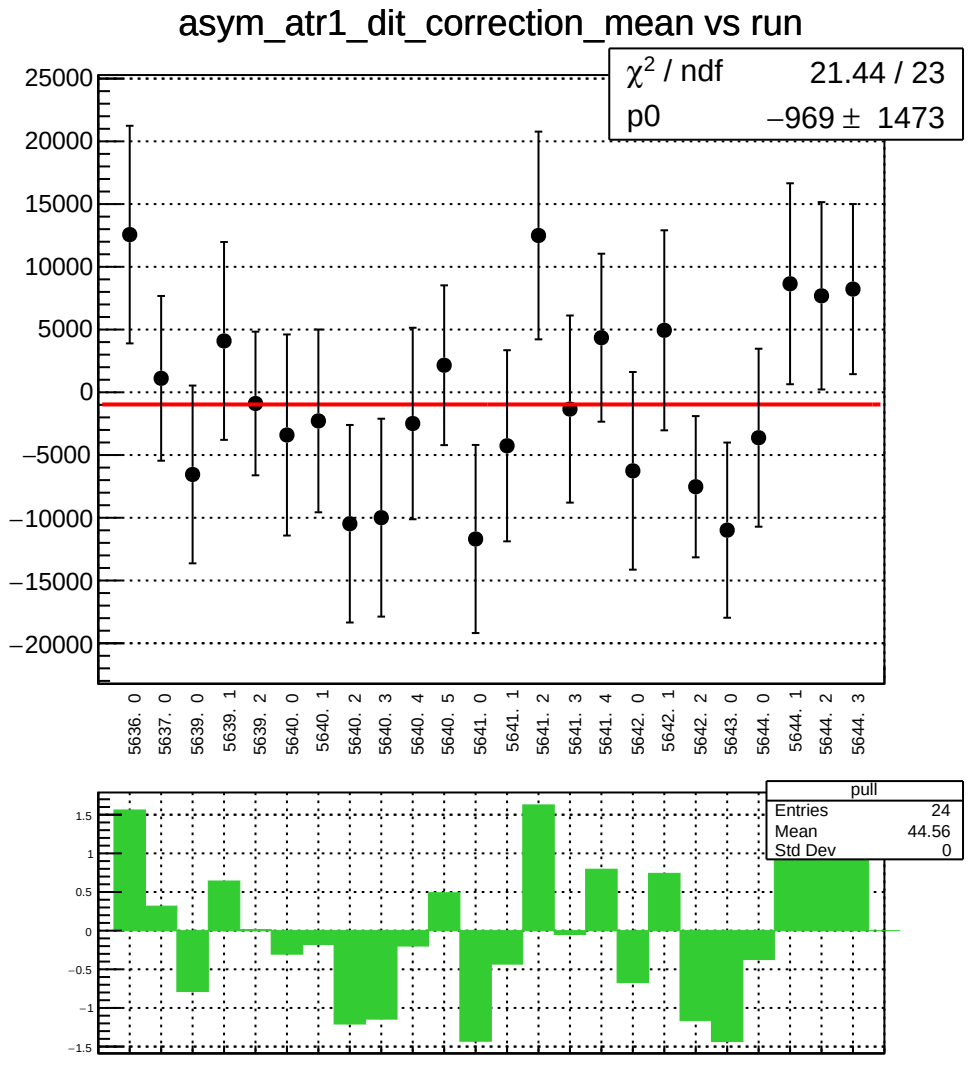

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 1460 / 23
p0 733.6 ± 1.058
820
800
780
760
740
720
700
680
660
640
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

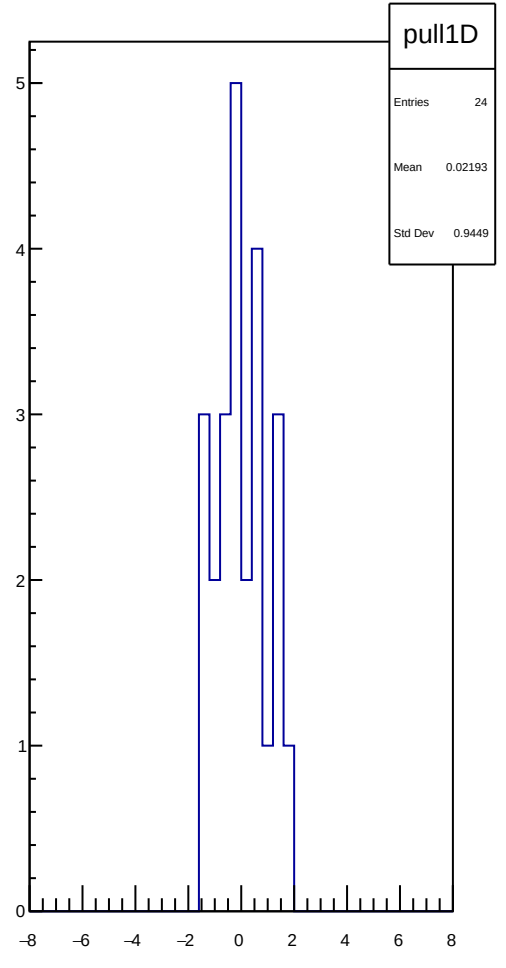

dit_asym_atr1_mean vs run
χ² / ndf 24.99 / 23
p0 −5468 ± 5462
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

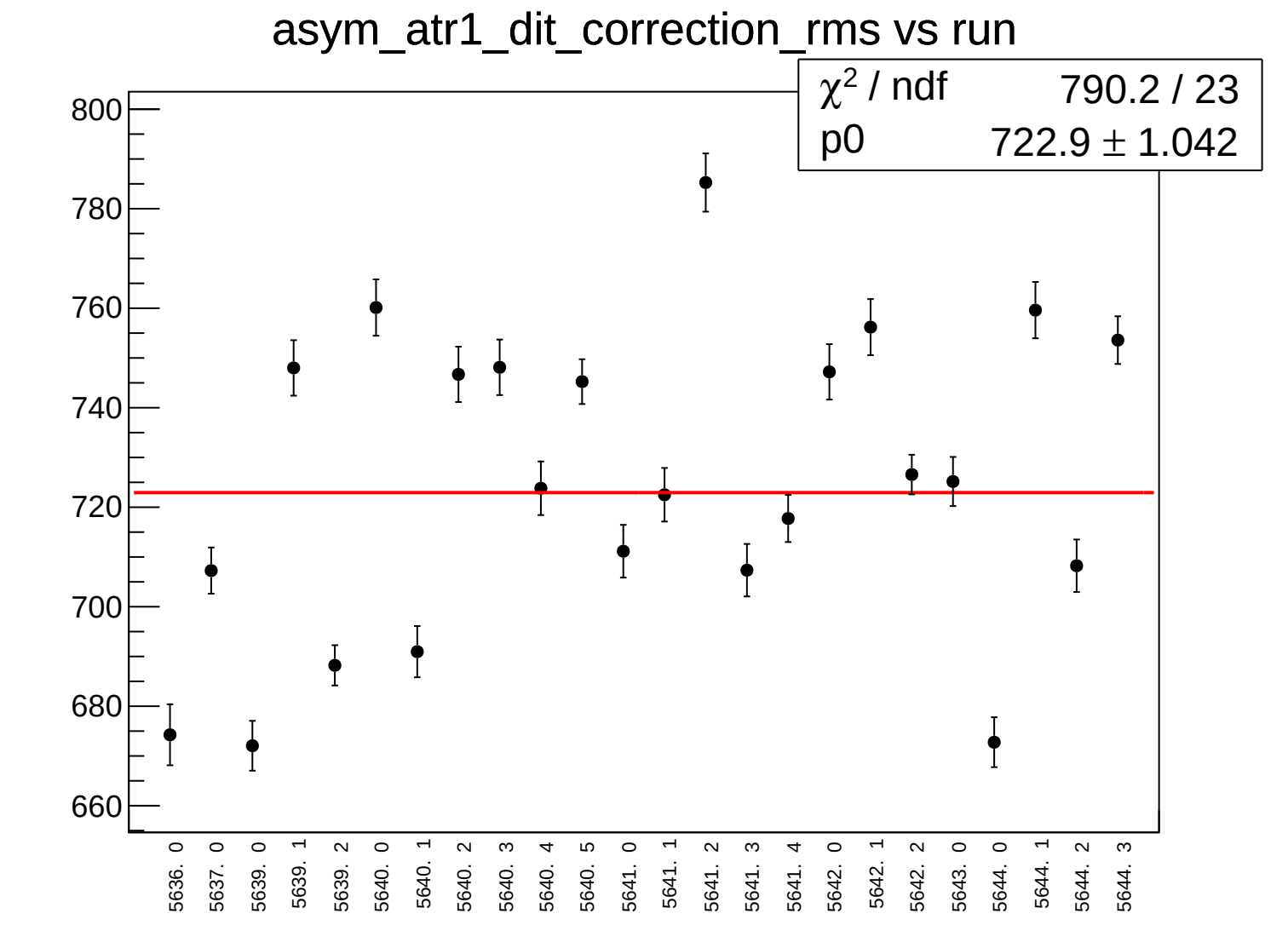

pull
Entries 24
Mean 307.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

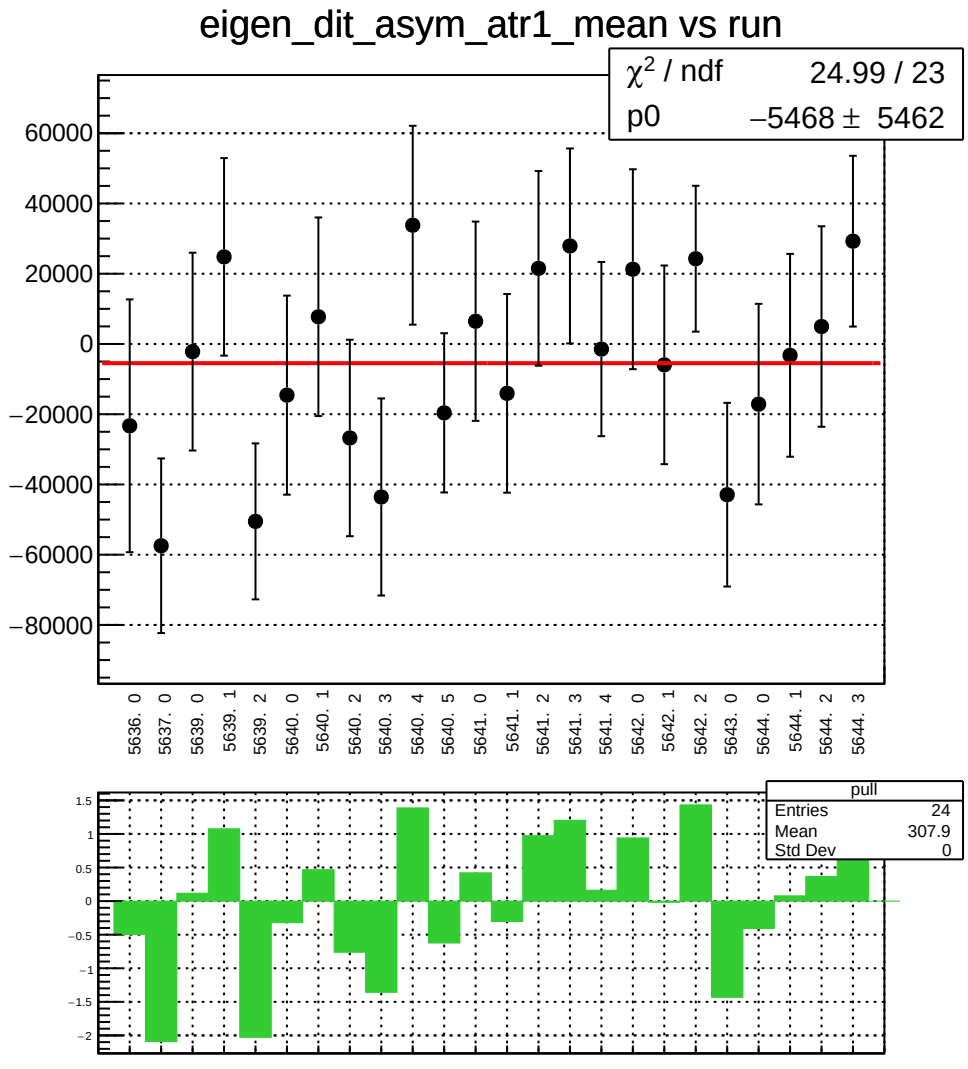

pull1D
Entries 24
Mean 0.008829
Std Dev 1.02
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

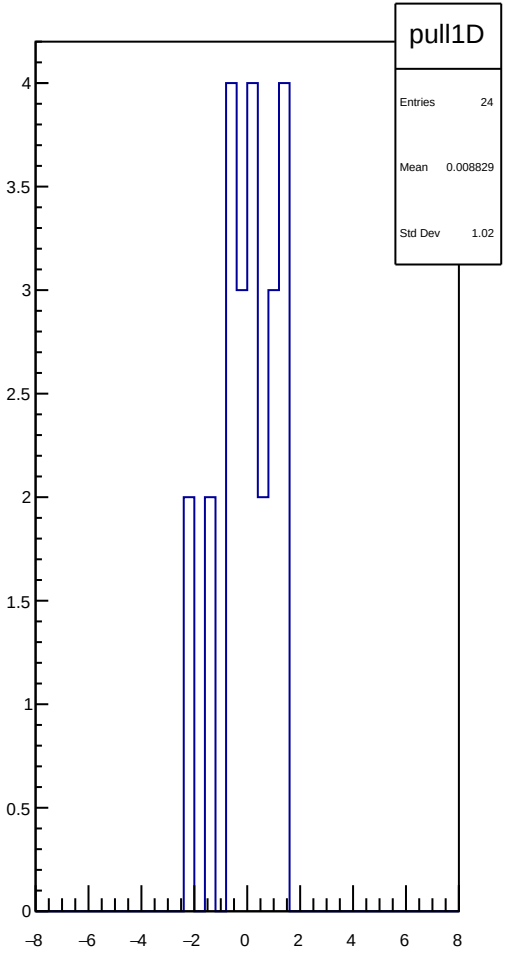

dit_asym_atr1_rms vs run
χ² / ndf 61.05 / 23
p0 2682 ± 3.863
2800
2750
2700
2650
2600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

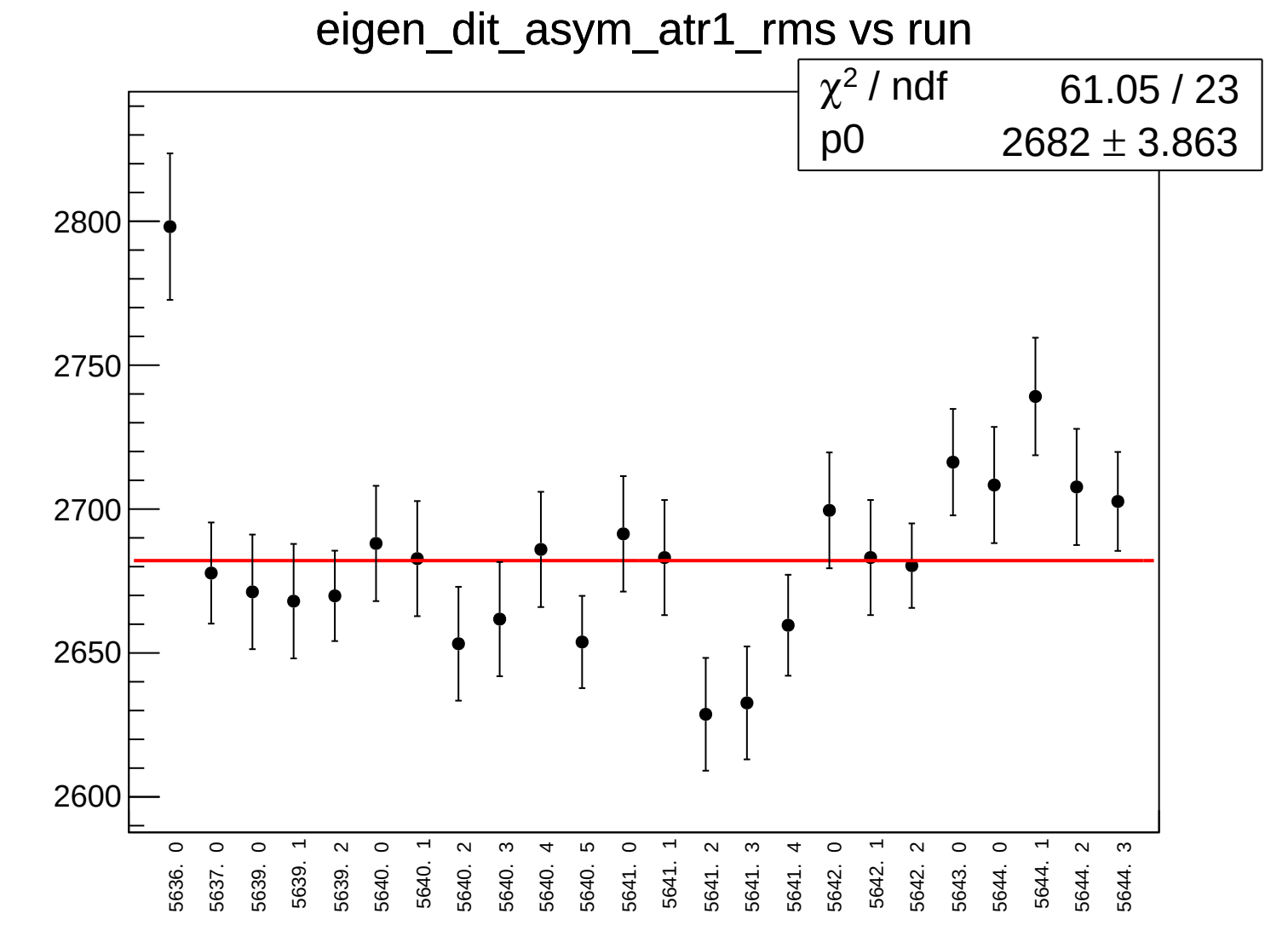

asym_atr1_dit_correction_mean vs run
χ² / ndf 21.44 / 23
p0 −969 ± 1473
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 44.56
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

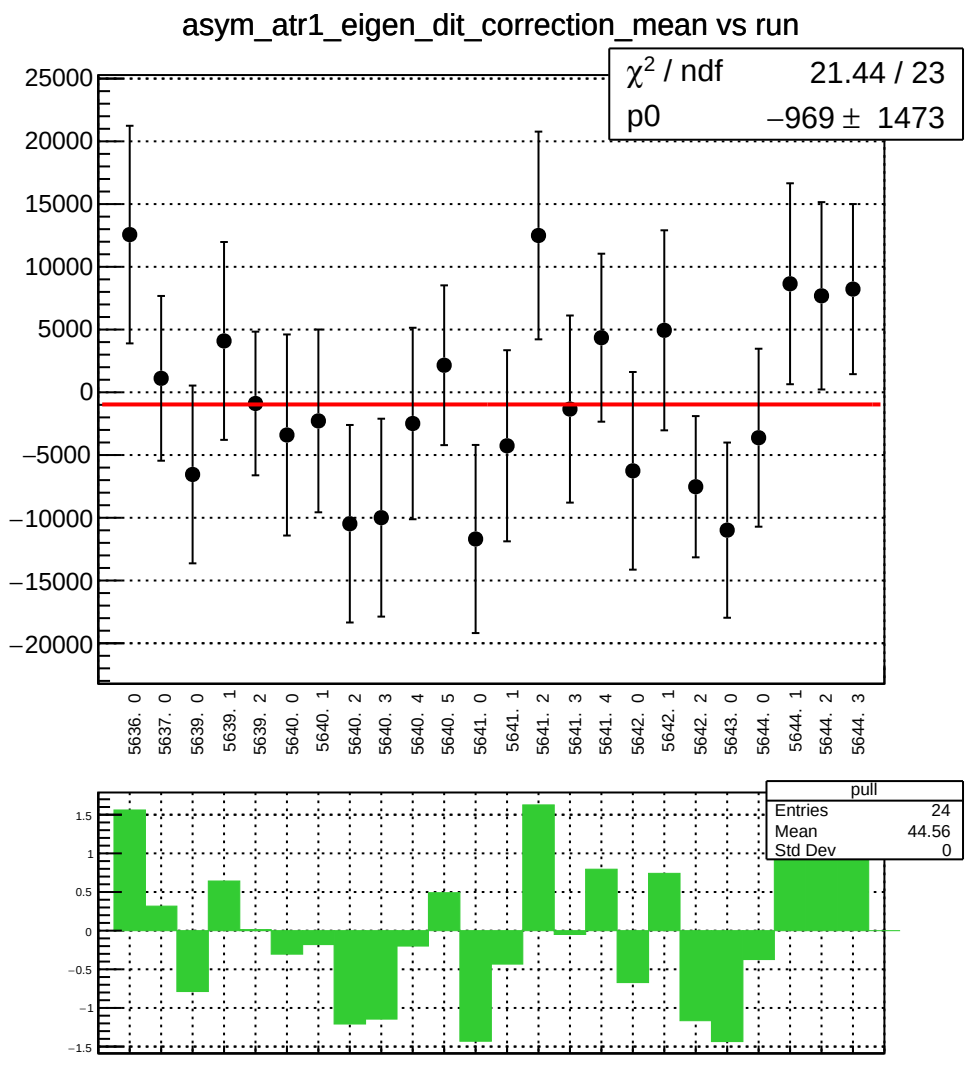

pull1D
Entries 24
Mean 0.02193
Std Dev 0.9449
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

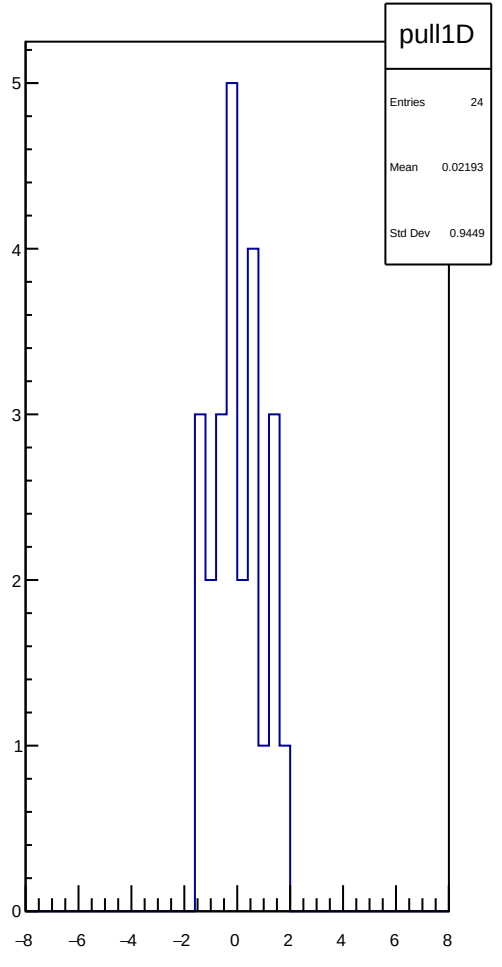

asym_atr1_dit_correction_rms vs run
χ² / ndf 790.2 / 23
p0 722.9 ± 1.042
800
780
760
740
720
700
680
660
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

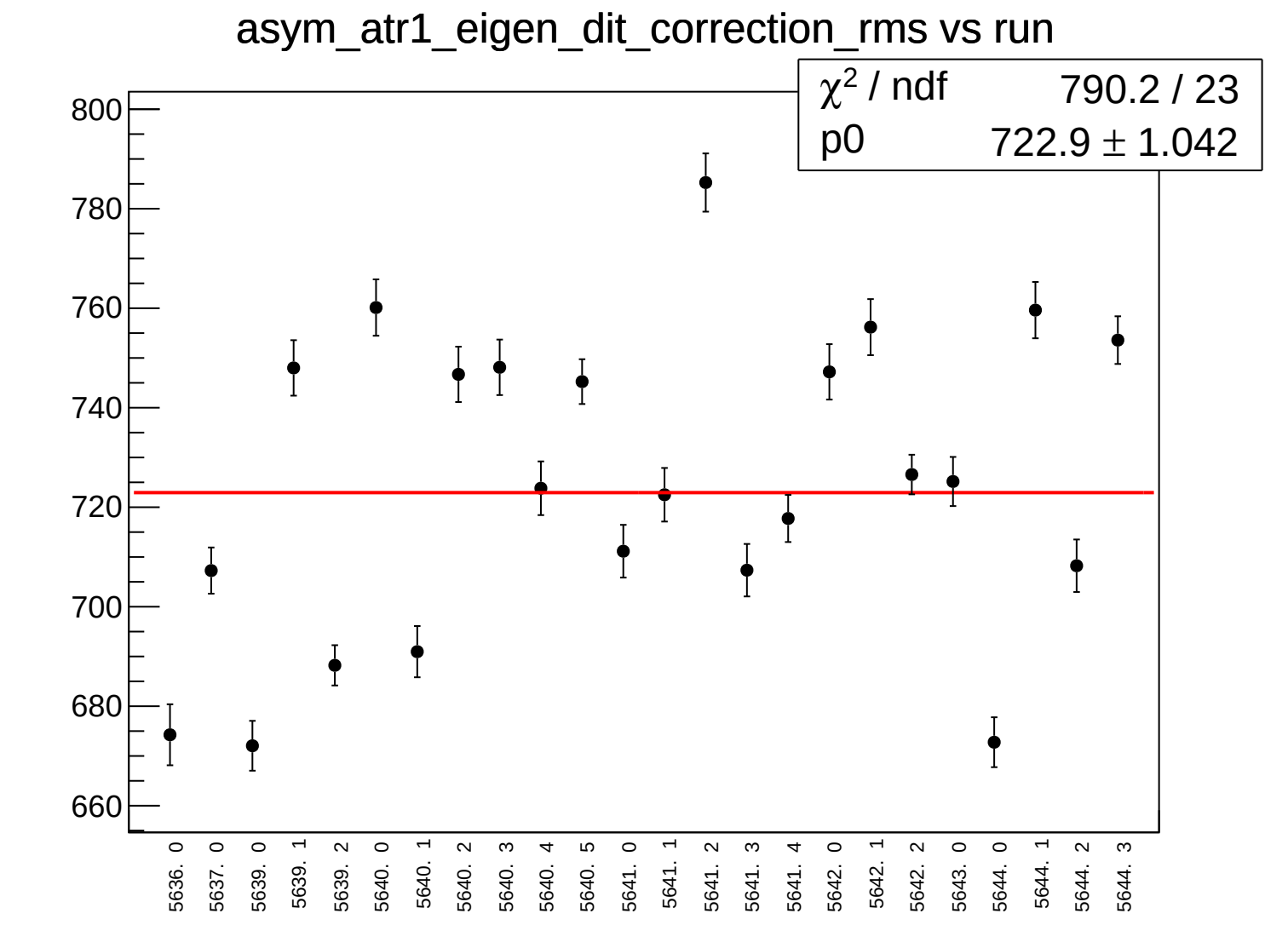

eigen_dit_asym_atr1_mean vs run
χ² / ndf 24.99 / 23
p0 −5468 ± 5462
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 307.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

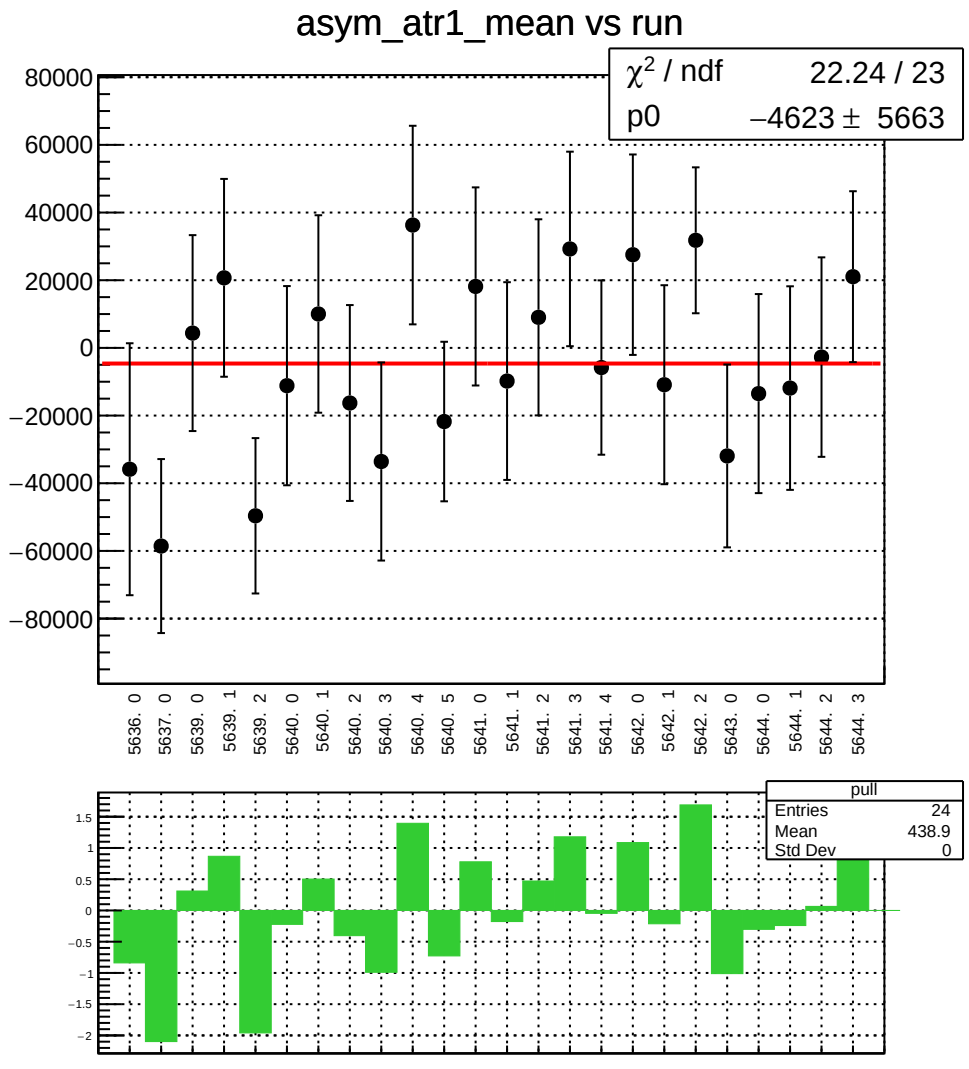

pull1D
Entries 24
Mean 0.008829
Std Dev 1.02
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

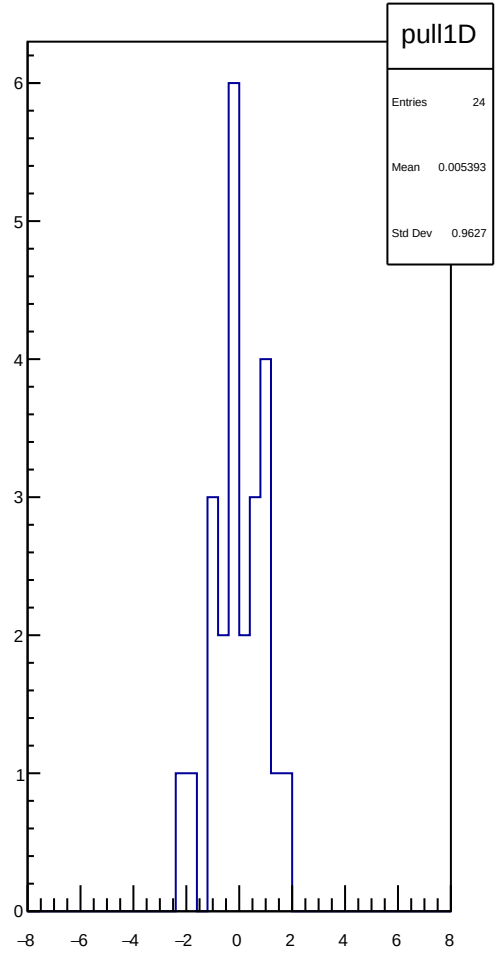

eigen_dit_asym_atr1_rms vs run
χ² / ndf 61.05 / 23
p0 2682 ± 3.863
2800
2750
2700
2650
2600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

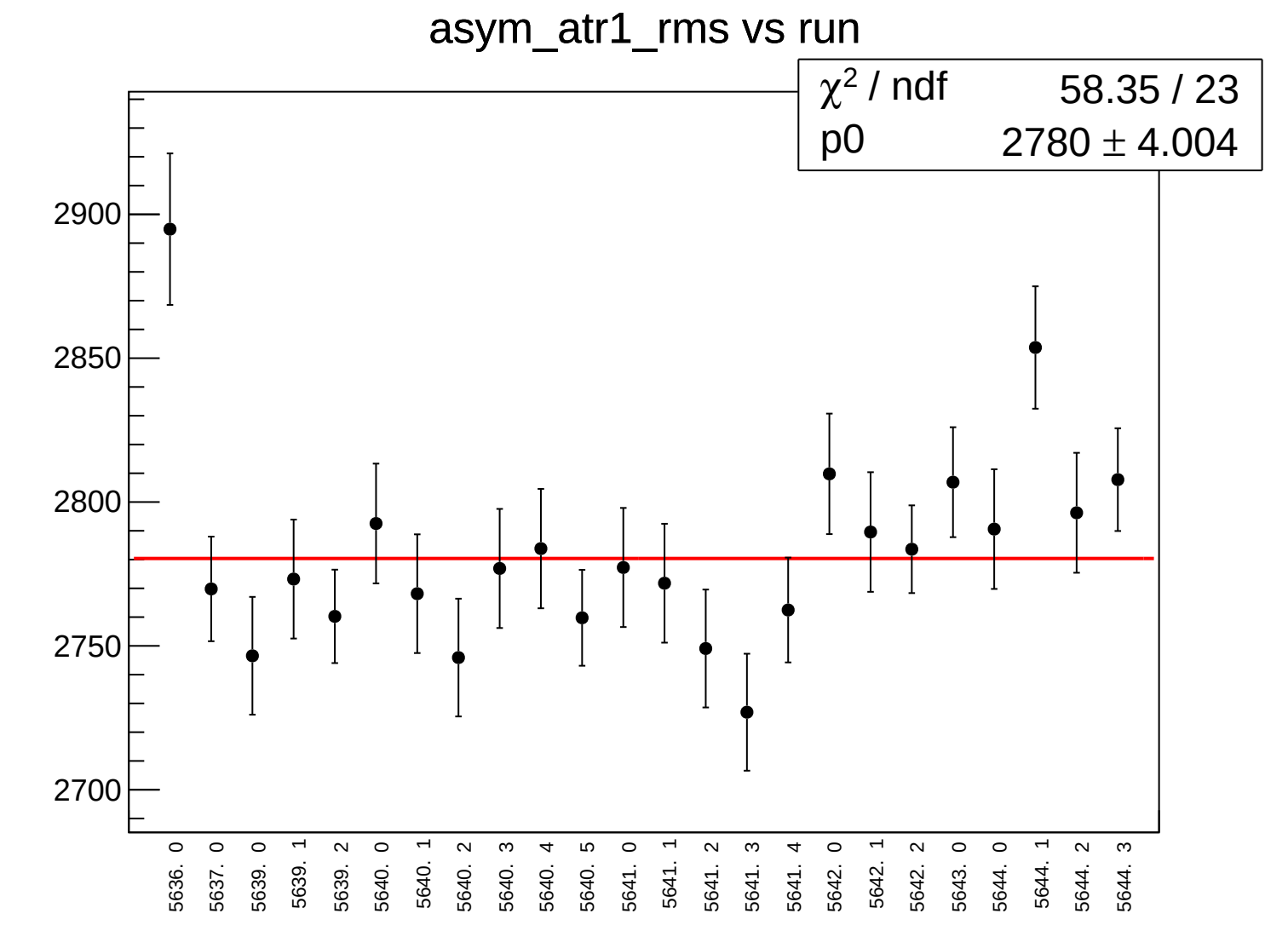

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 21.44 / 23
p0 −969 ± 1473
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 44.56
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

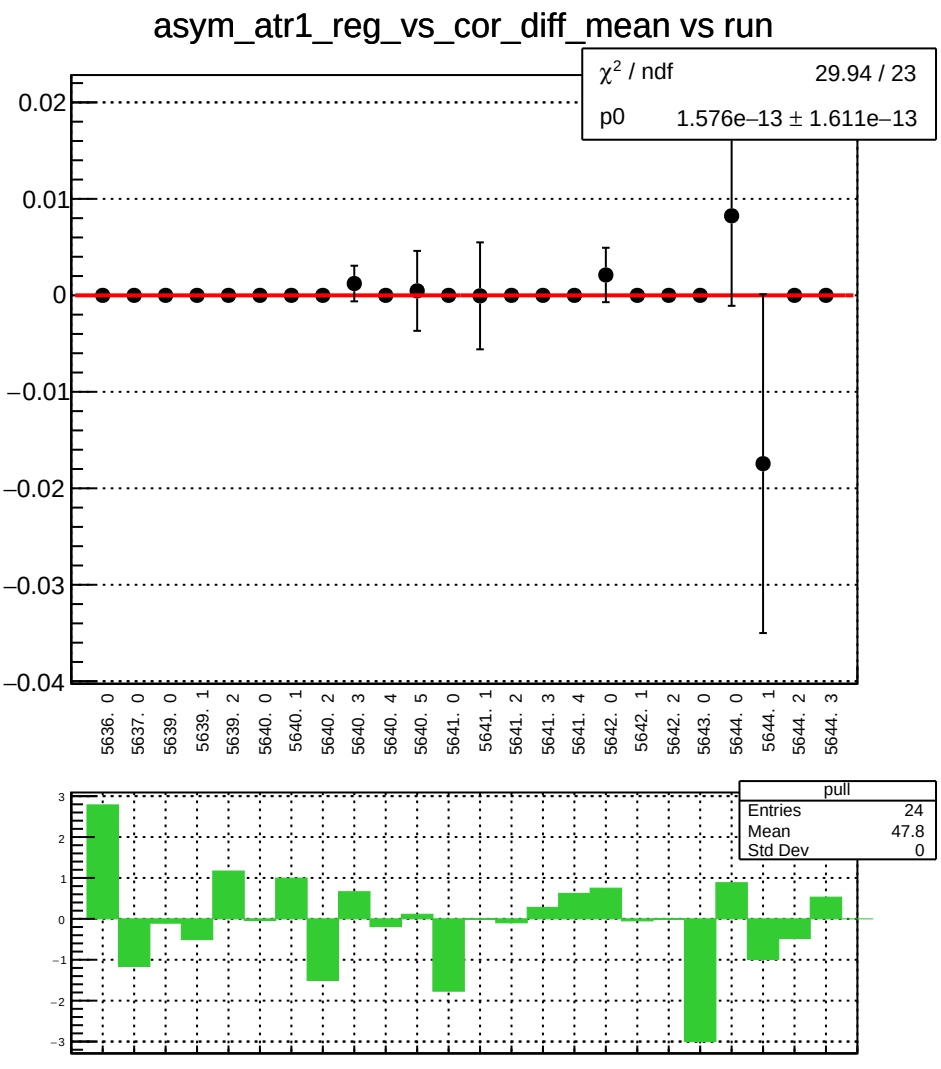

pull1D
Entries 24
Mean 0.02193
Std Dev 0.9449
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

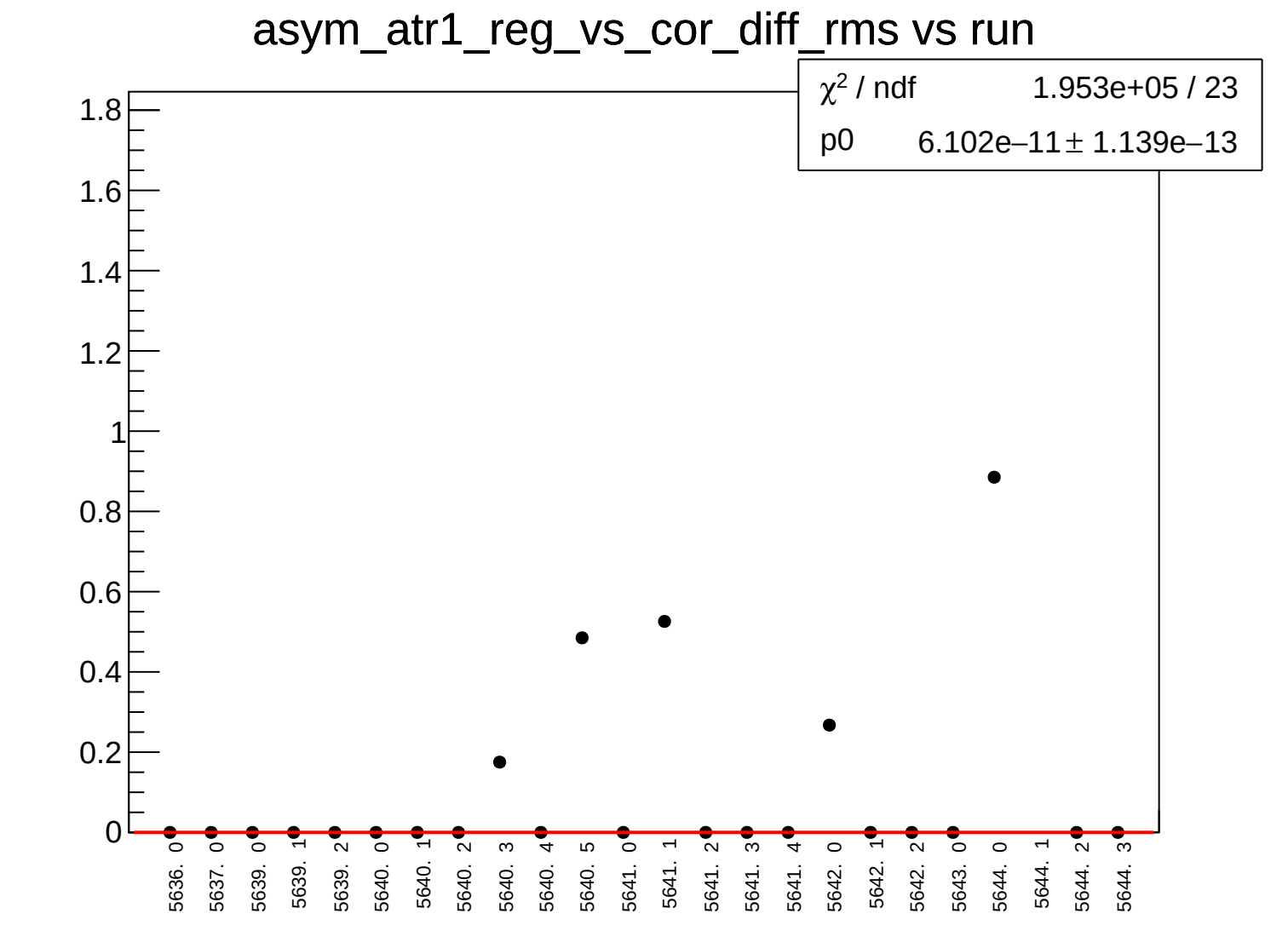

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 790.2 / 23
p0 722.9 ± 1.042
800
780
760
740
720
700
680
660
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

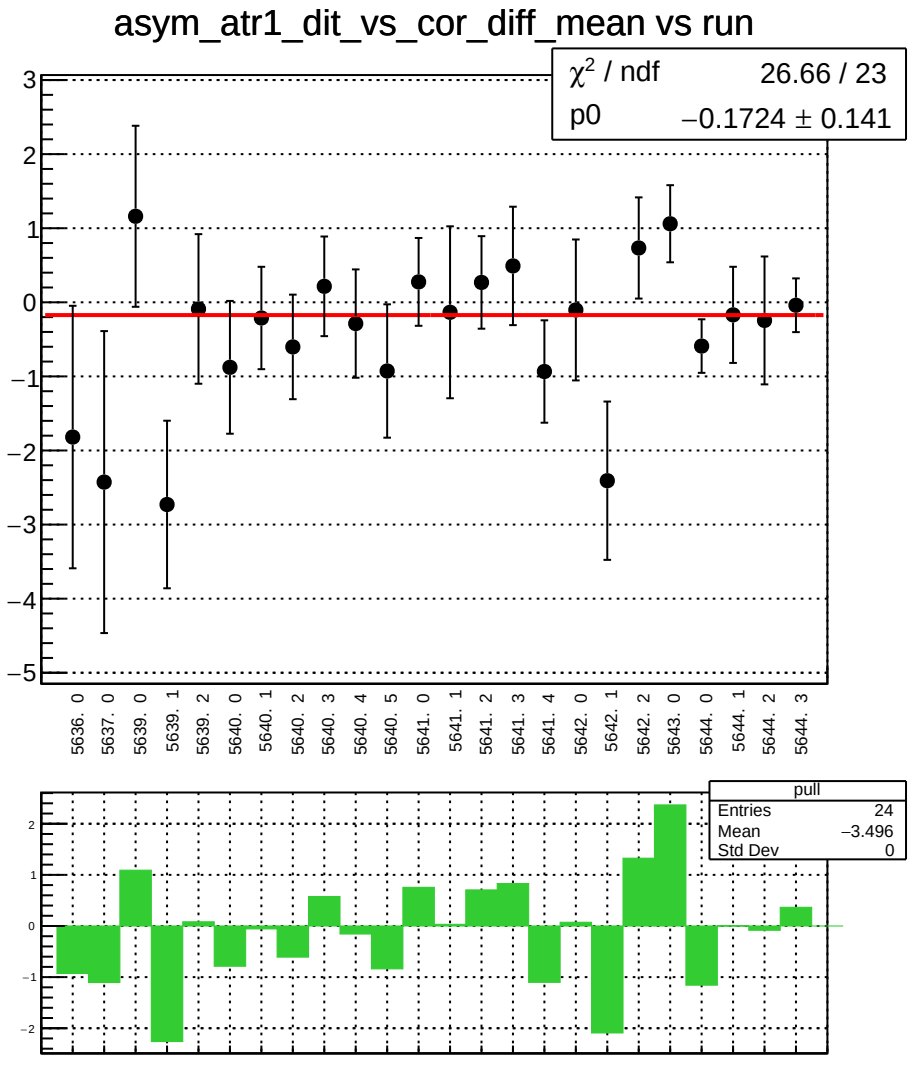

asym_atr1_mean vs run
χ² / ndf 22.24 / 23
p0 −4623 ± 5663
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 438.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

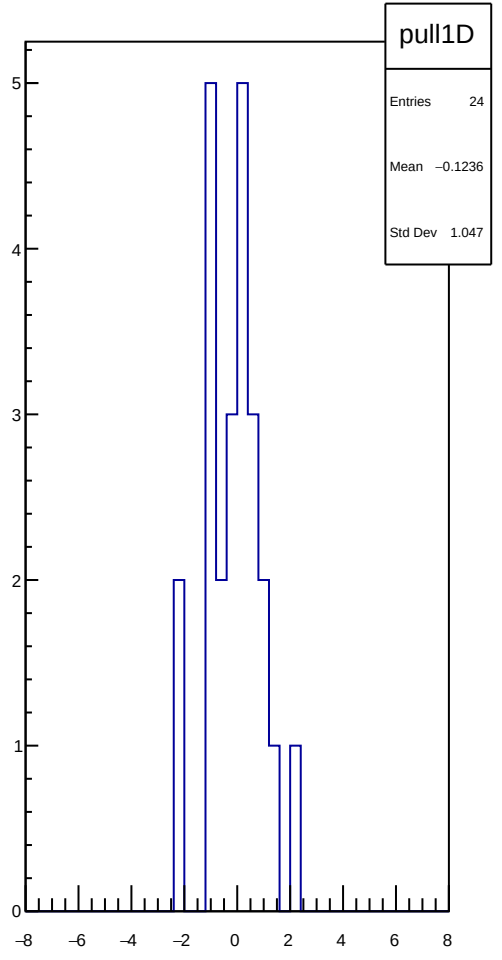

pull1D
Entries 24
Mean 0.005393
Std Dev 0.9627
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

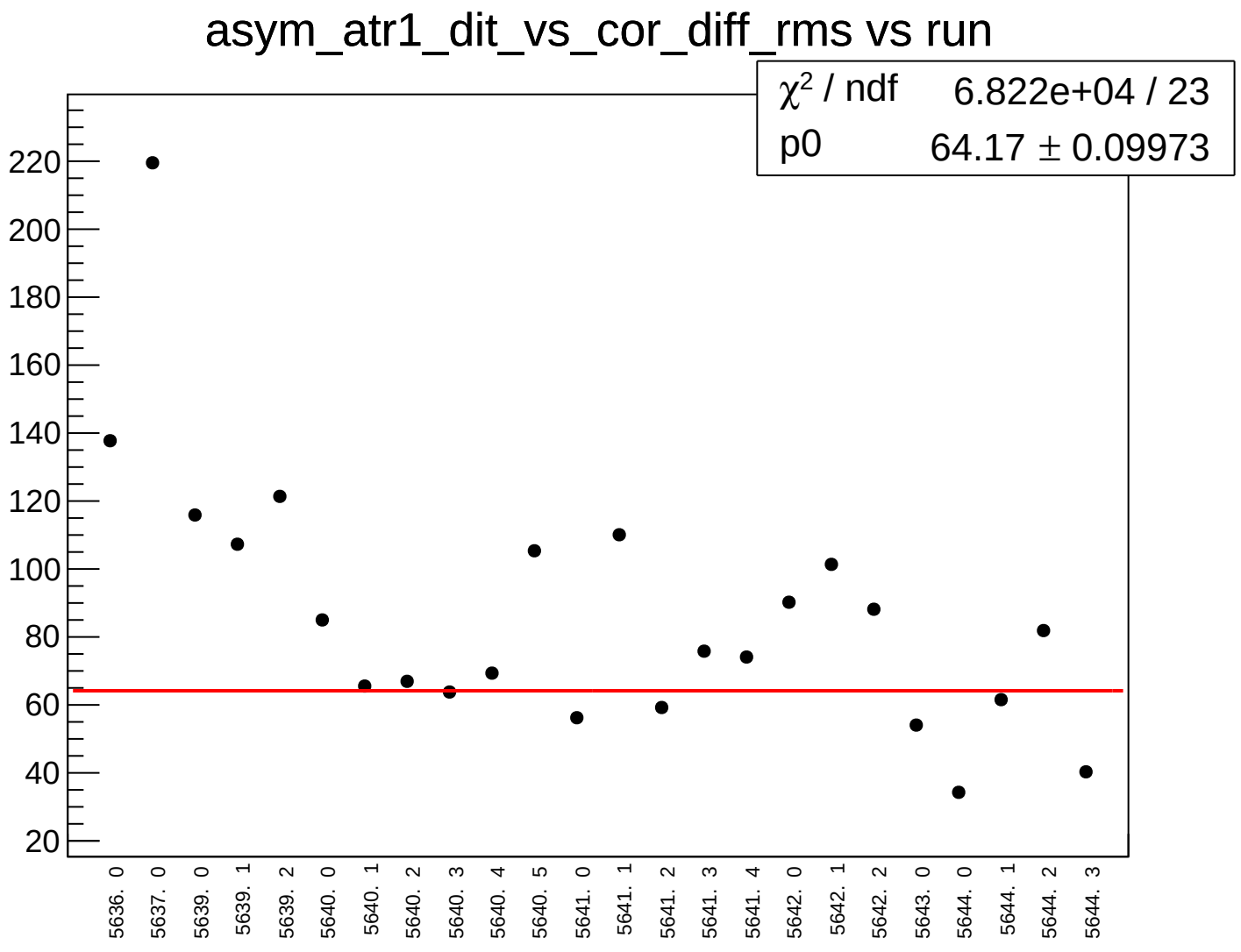

asym_atr1_rms vs run
χ² / ndf 58.35 / 23
p0 2780 ± 4.004
2900
2850
2800
2750
2700
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

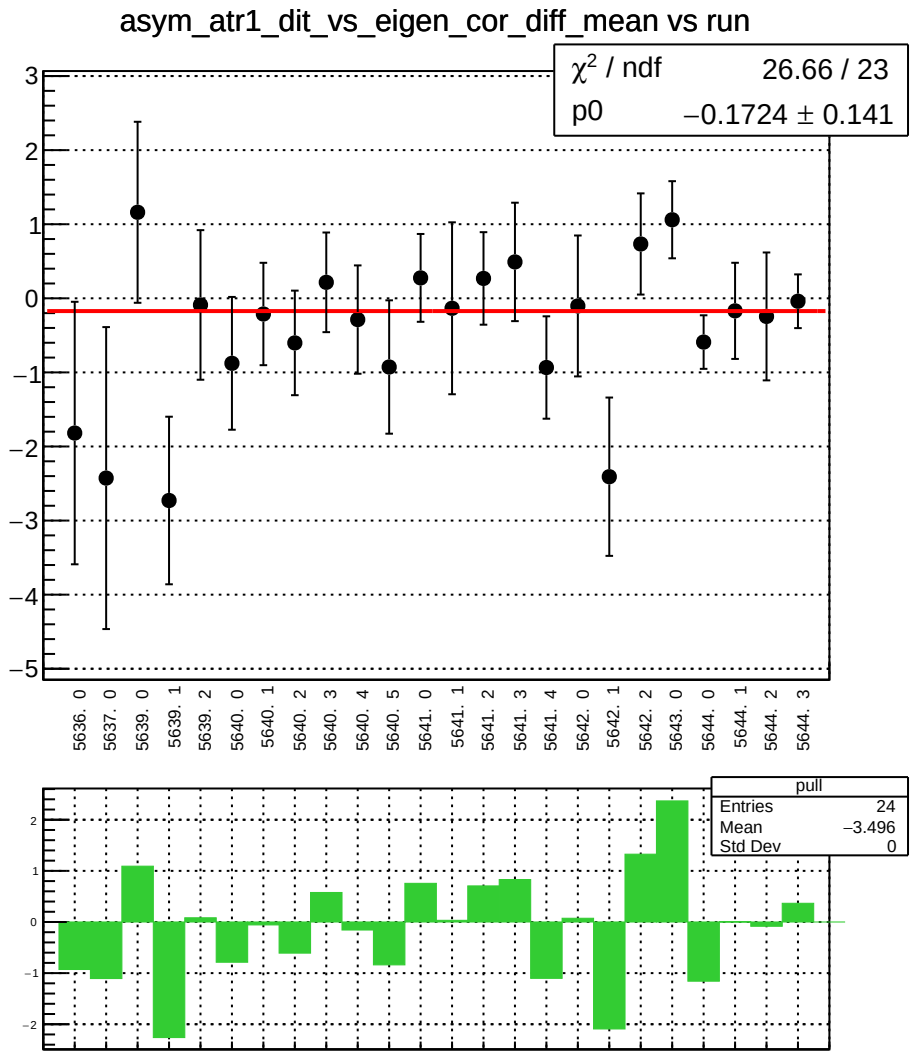

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 29.94 / 23
p0 1.576e−13 ± 1.611e−13
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 47.8
Std Dev 0
pull1D
Entries 24
Mean −0.04706
Std Dev 1.116

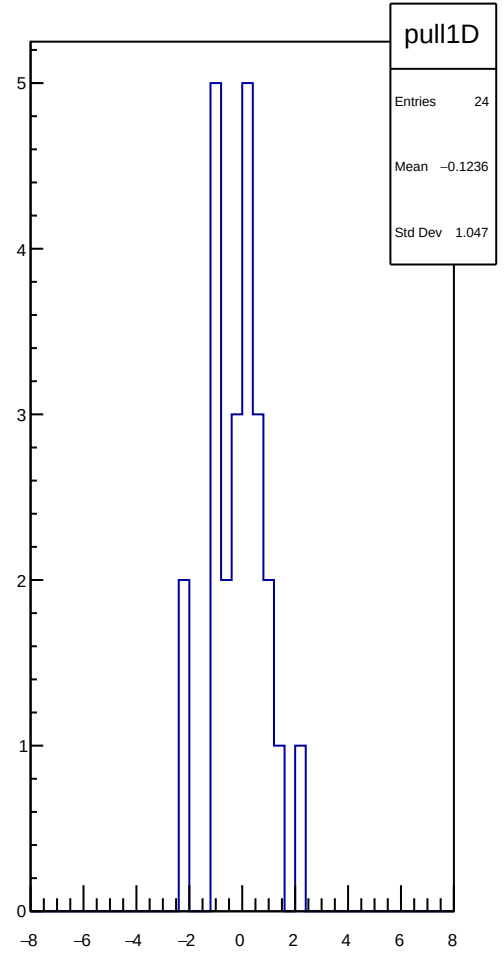

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.953e+05 / 23
p0 6.102e−11 ± 1.139e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

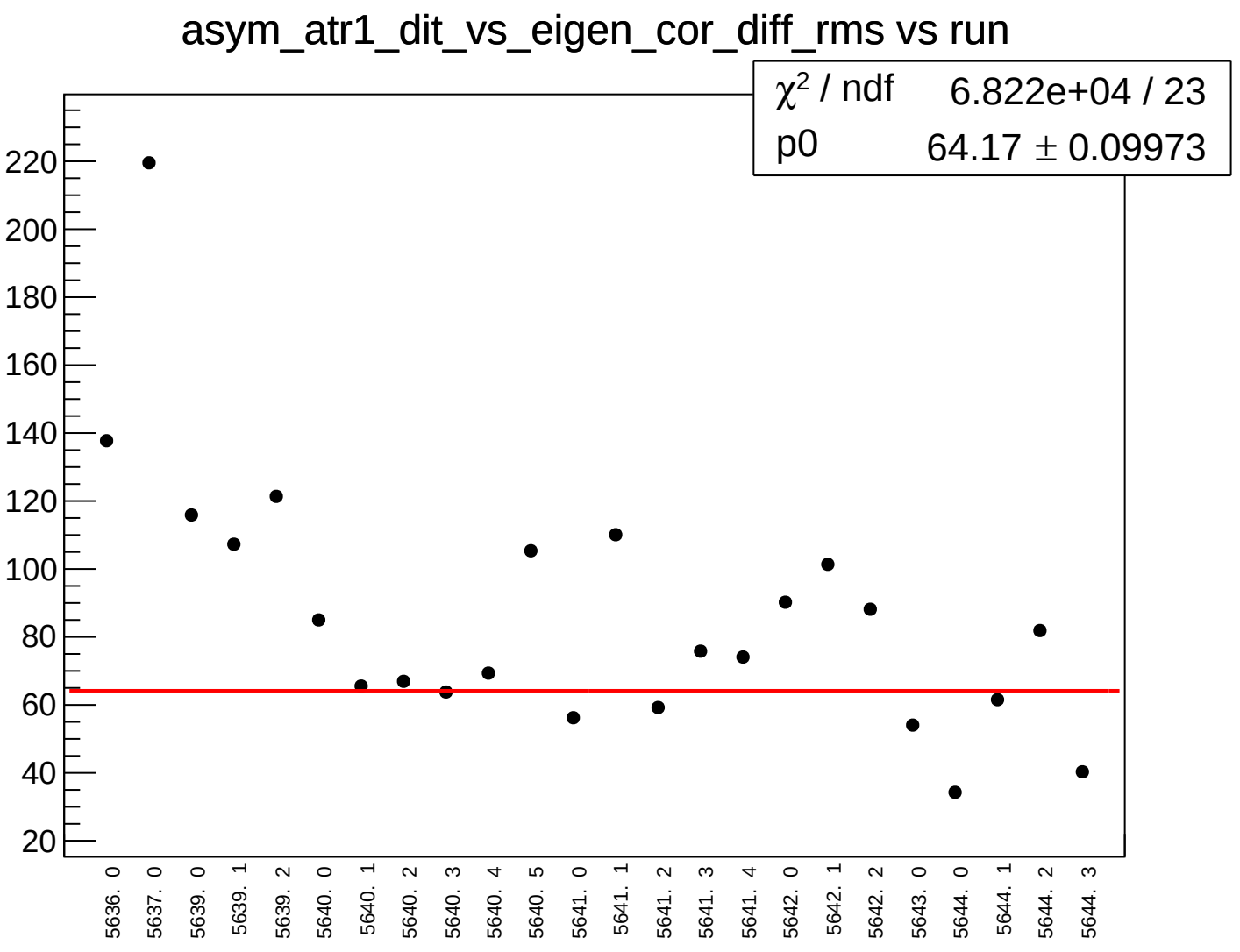

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 26.66 / 23
p0 −0.1724 ± 0.141
3
2
1
0
−1
−2
−3
−4
−5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −3.496
Std Dev 0
2
1
0
−1
−2

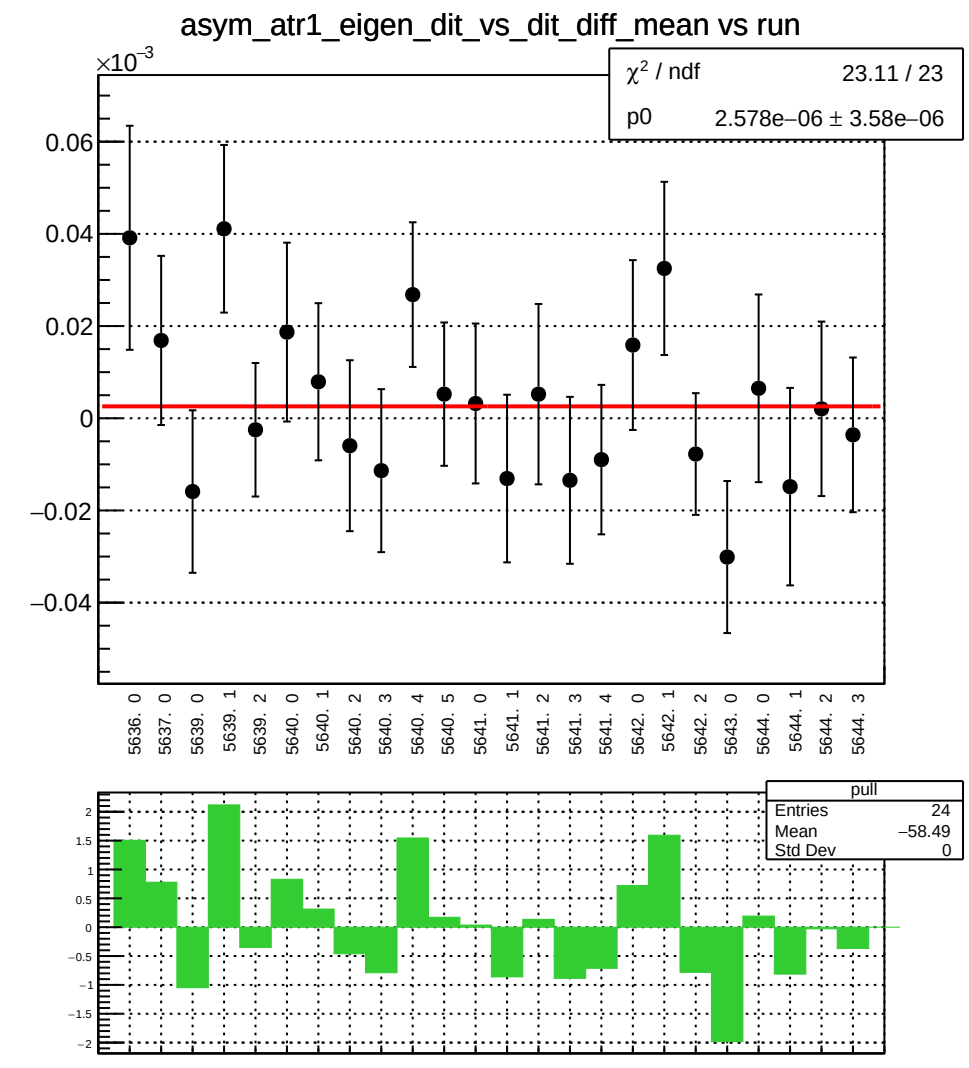

pull1D
Entries 24
Mean −0.1236
Std Dev 1.047
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

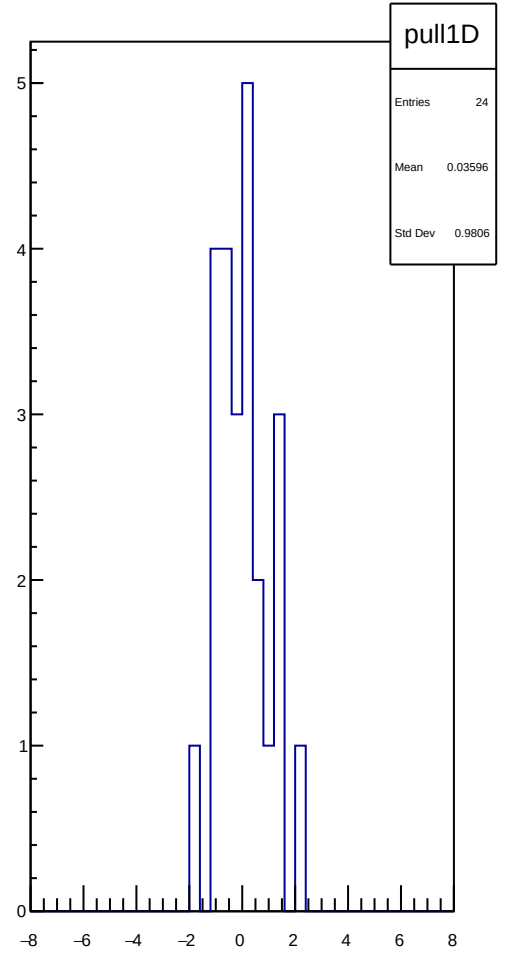

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 6.822e+04 / 23
p0 64.17 ± 0.09973
220
200
180
160
140
120
100
80
60
40
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

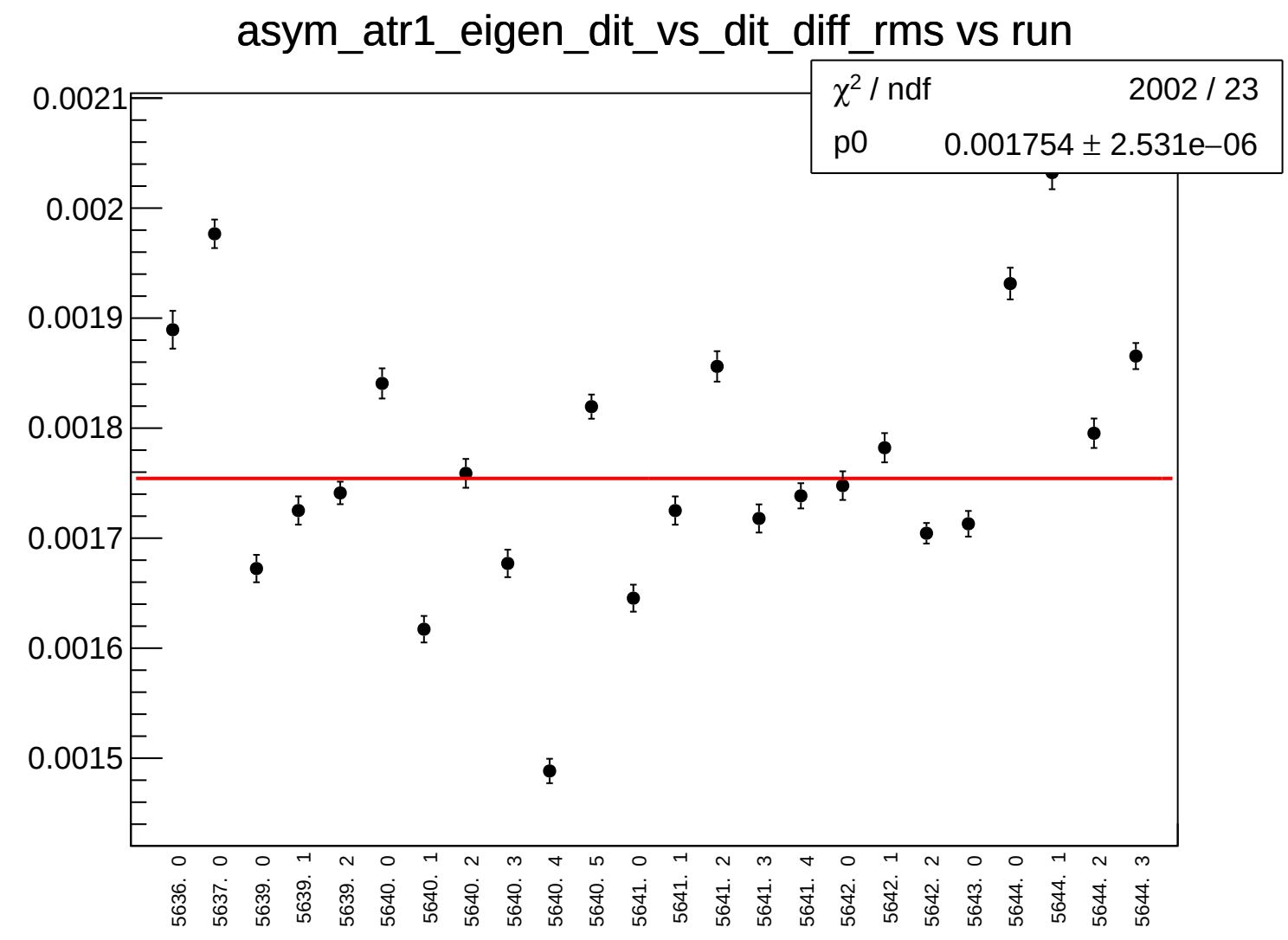

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 26.66 / 23
p0 −0.1724 ± 0.141
3
2
1
0
−1
−2
−3
−4
−5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −3.496
Std Dev 0
2
1
0
−1
−2

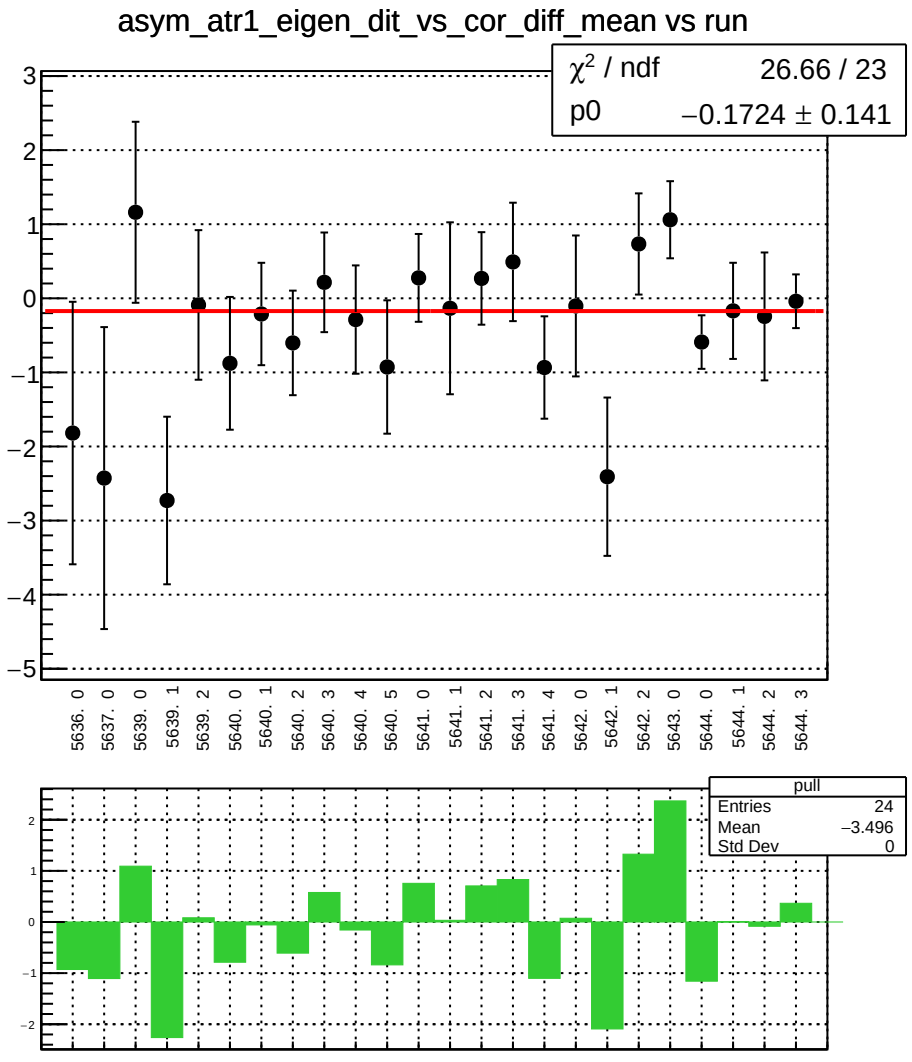

pull1D
Entries 24
Mean −0.1236
Std Dev 1.047
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

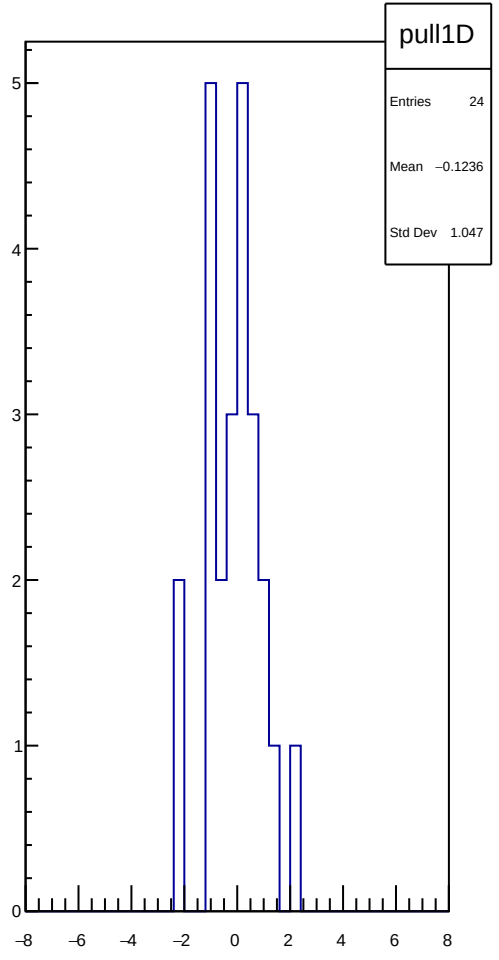

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.822e+04 / 23
p0 64.17 ± 0.09973
220
200
180
160
140
120
100
80
60
40
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

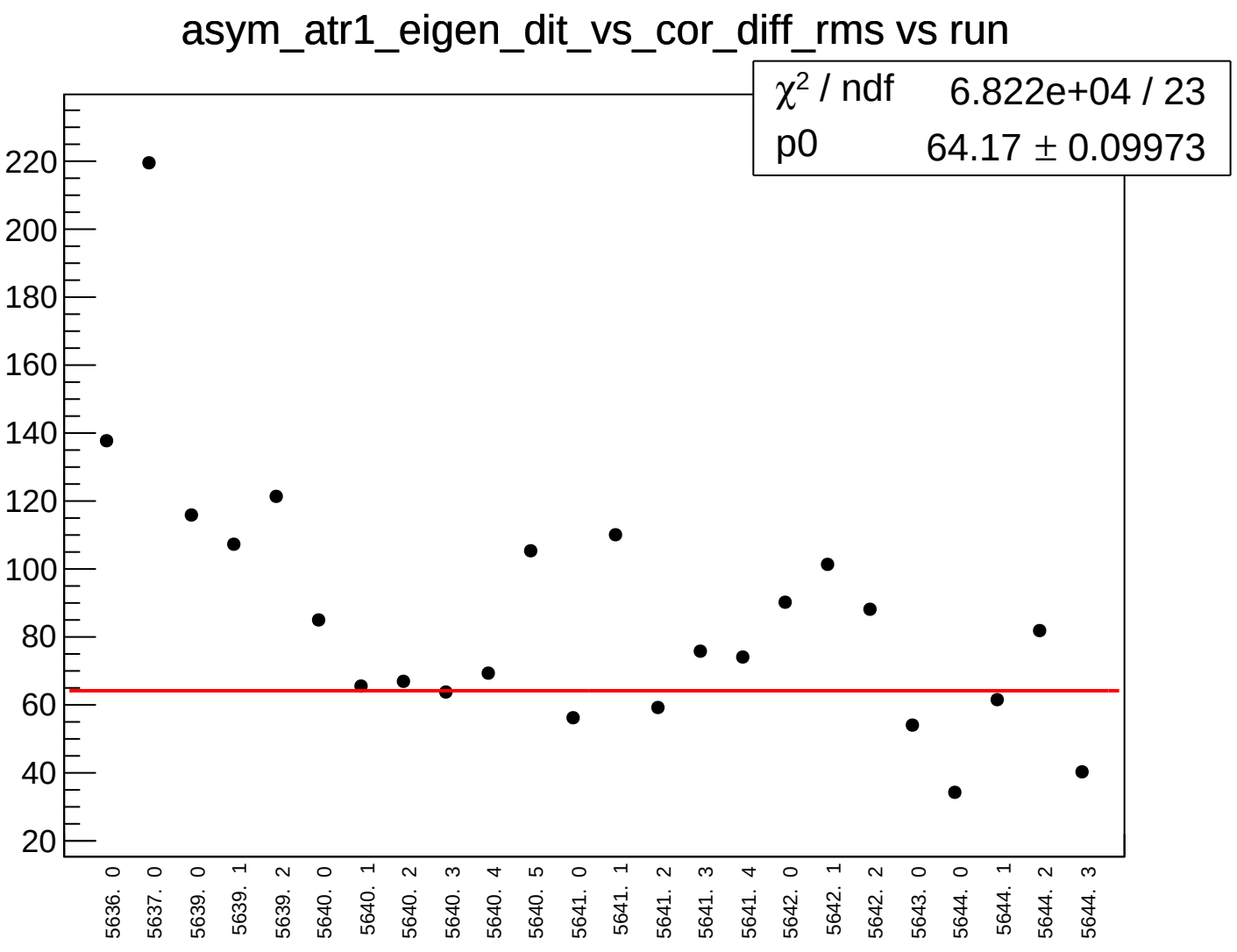

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 23.11 / 23
p0 2.578e−06 ± 3.58e−06
0.06
0.04
0.02
0
−0.02
−0.04
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −58.49
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

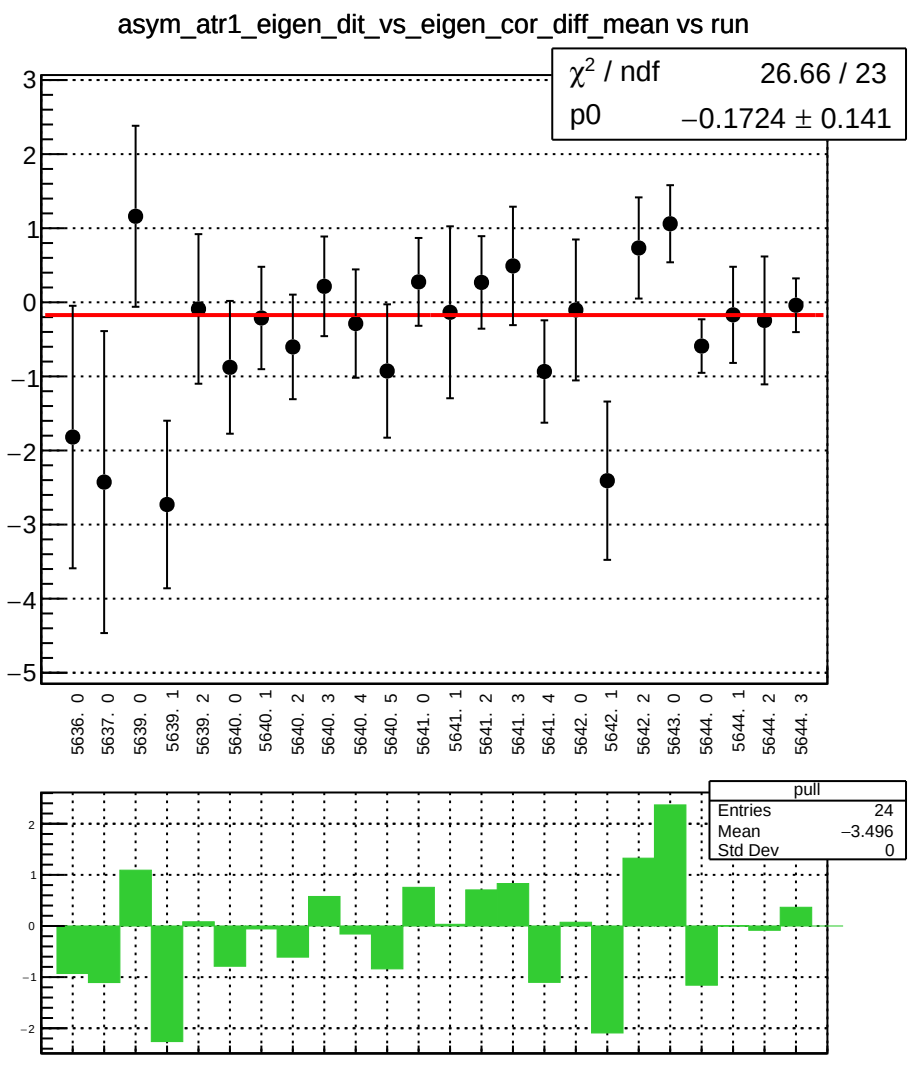

pull1D
Entries 24
Mean 0.03596
Std Dev 0.9806
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

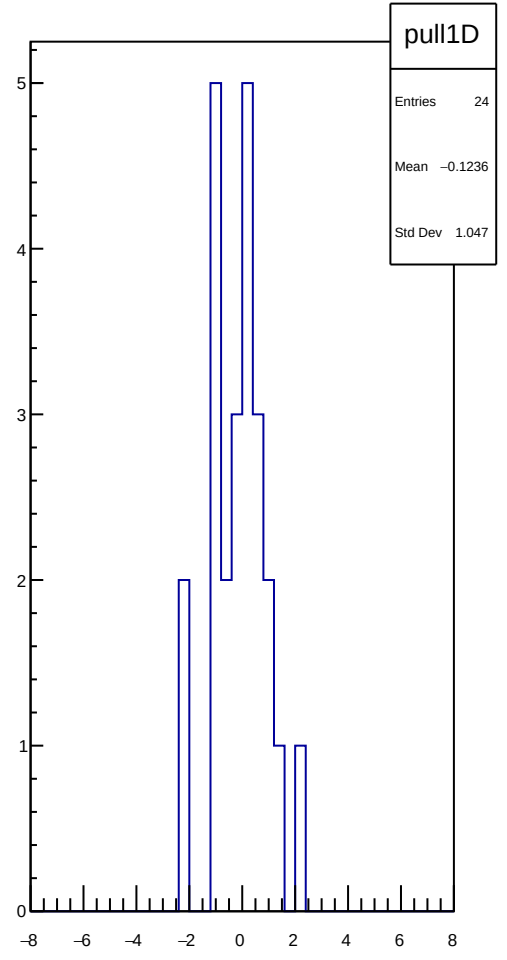

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2002 / 23
p0 0.001754 ± 2.531e−06
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

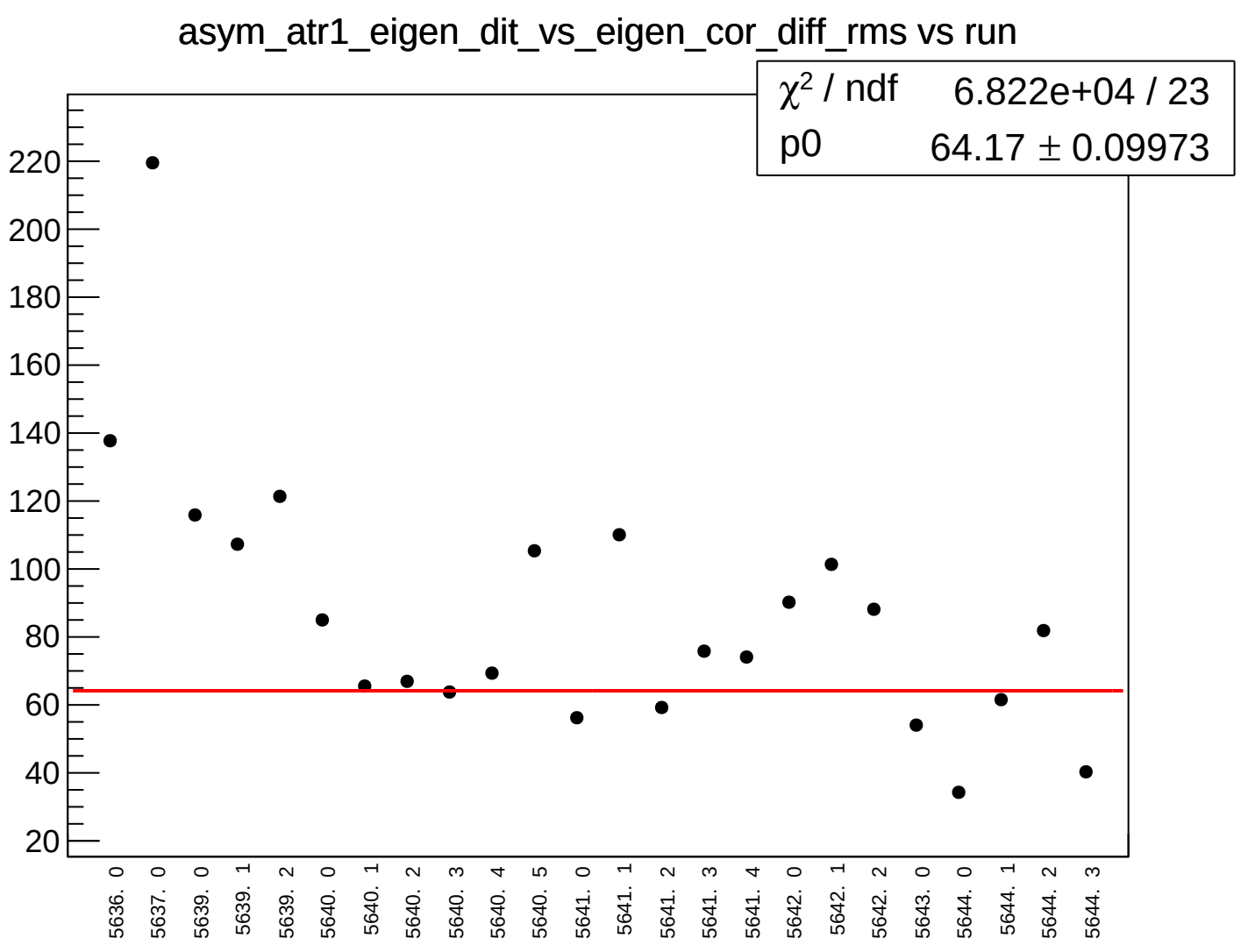

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 26.66 / 23
p0 −0.1724 ± 0.141
3
2
1
0
−1
−2
−3
−4
−5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −3.496
Std Dev 0
2
1
0
−1
−2

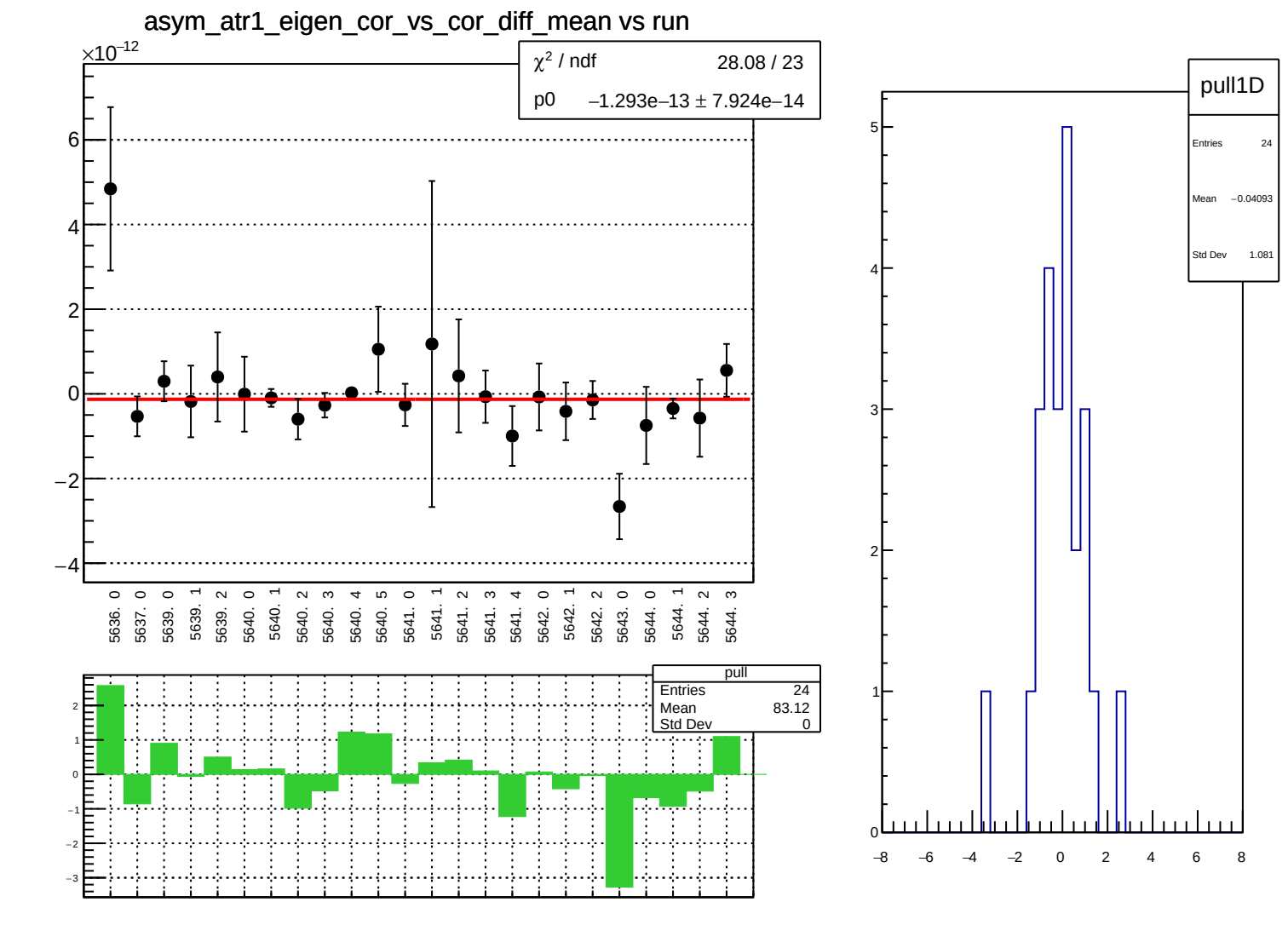

pull1D
Entries 24
Mean −0.1236
Std Dev 1.047
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

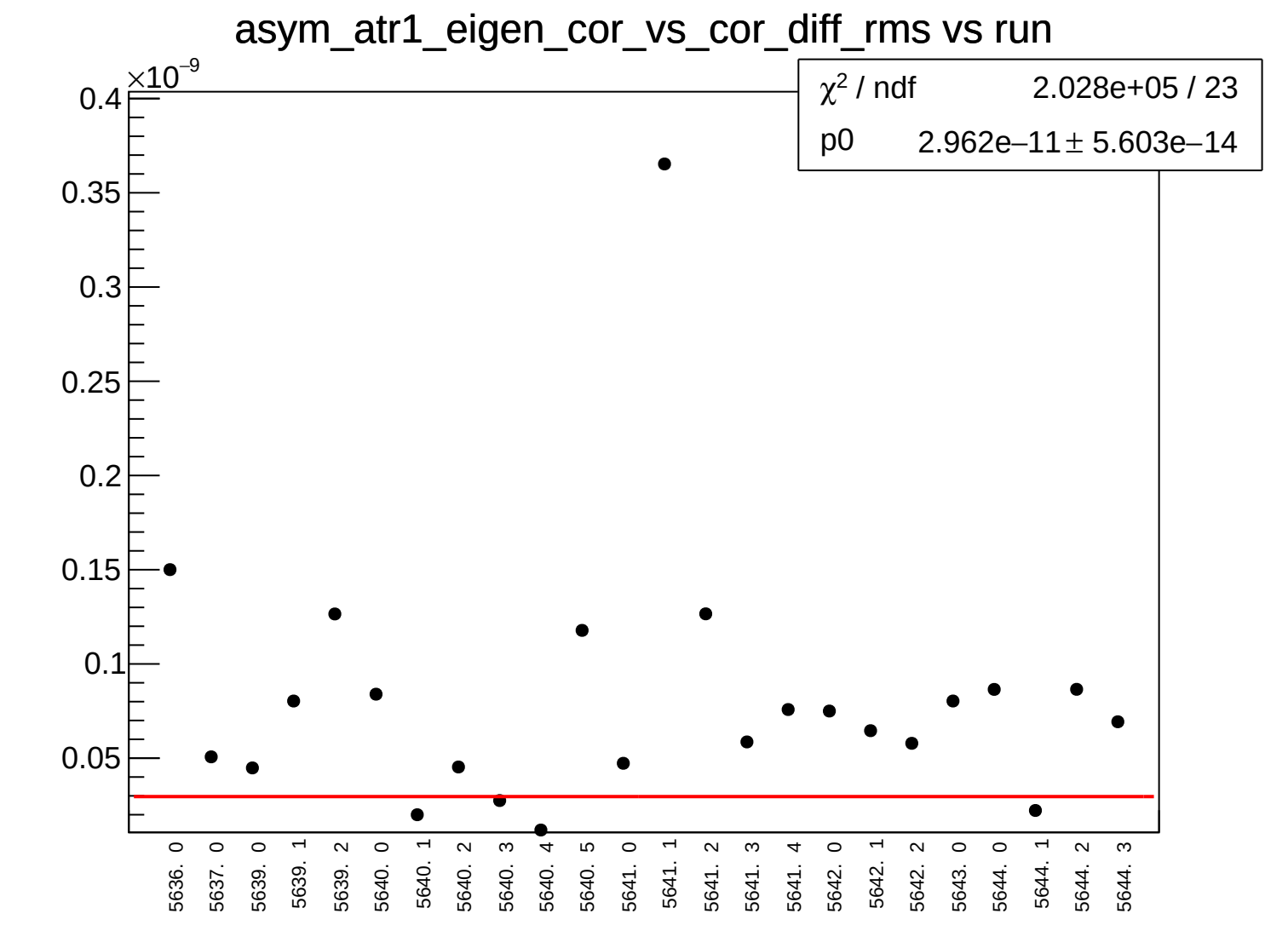

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.822e+04 / 23
p0 64.17 ± 0.09973
220
200
180
160
140
120
100
80
60
40
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

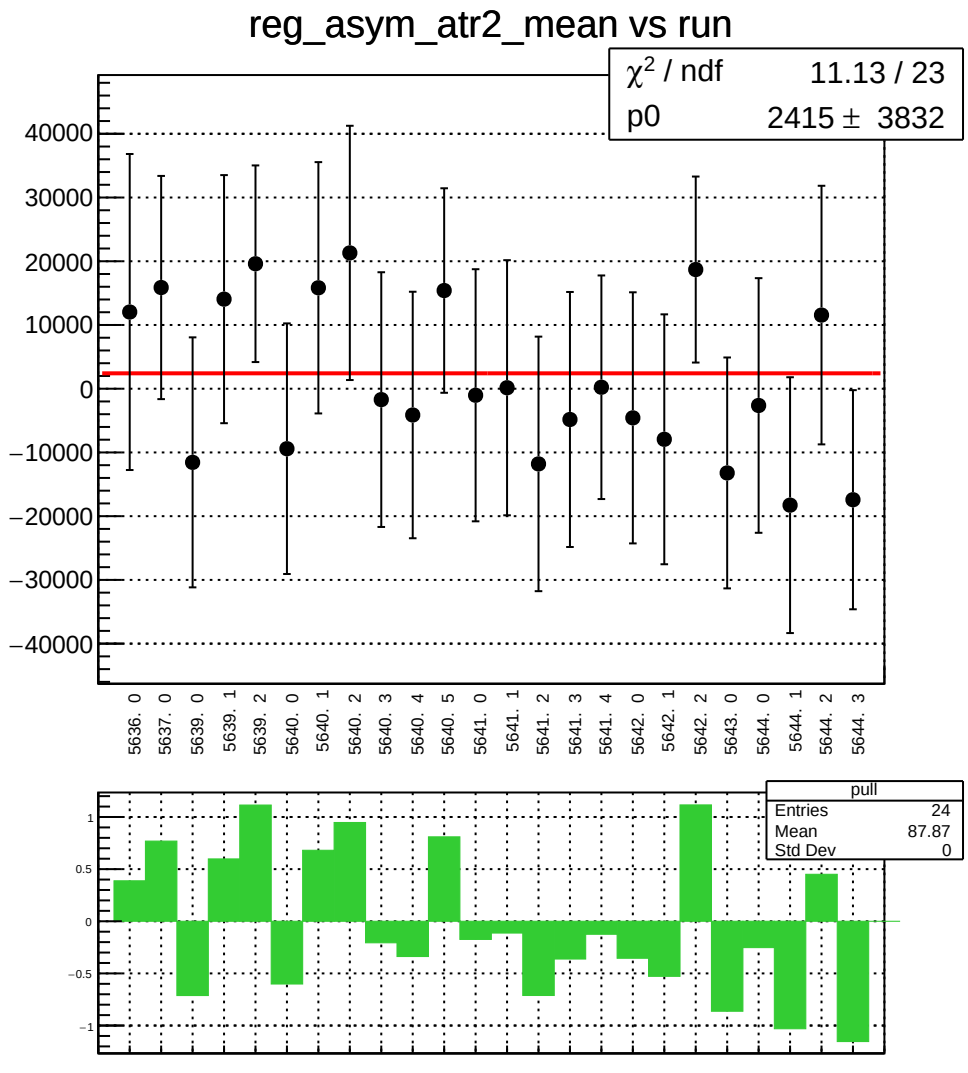

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 26.66 / 23
p0 −0.1724 ± 0.141
3
2
1
0
−1
−2
−3
−4
−5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −3.496
Std Dev 0
2
1
0
−1
−2

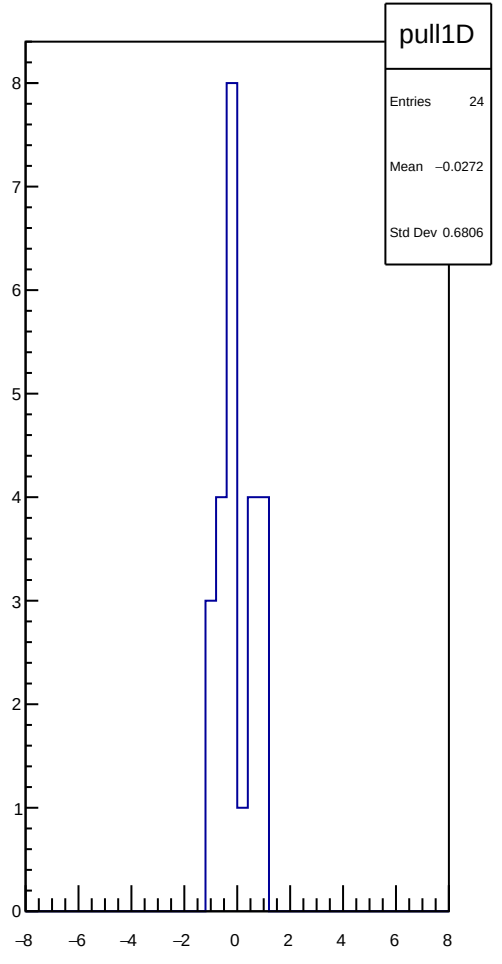

pull1D
Entries 24
Mean −0.1236
Std Dev 1.047
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

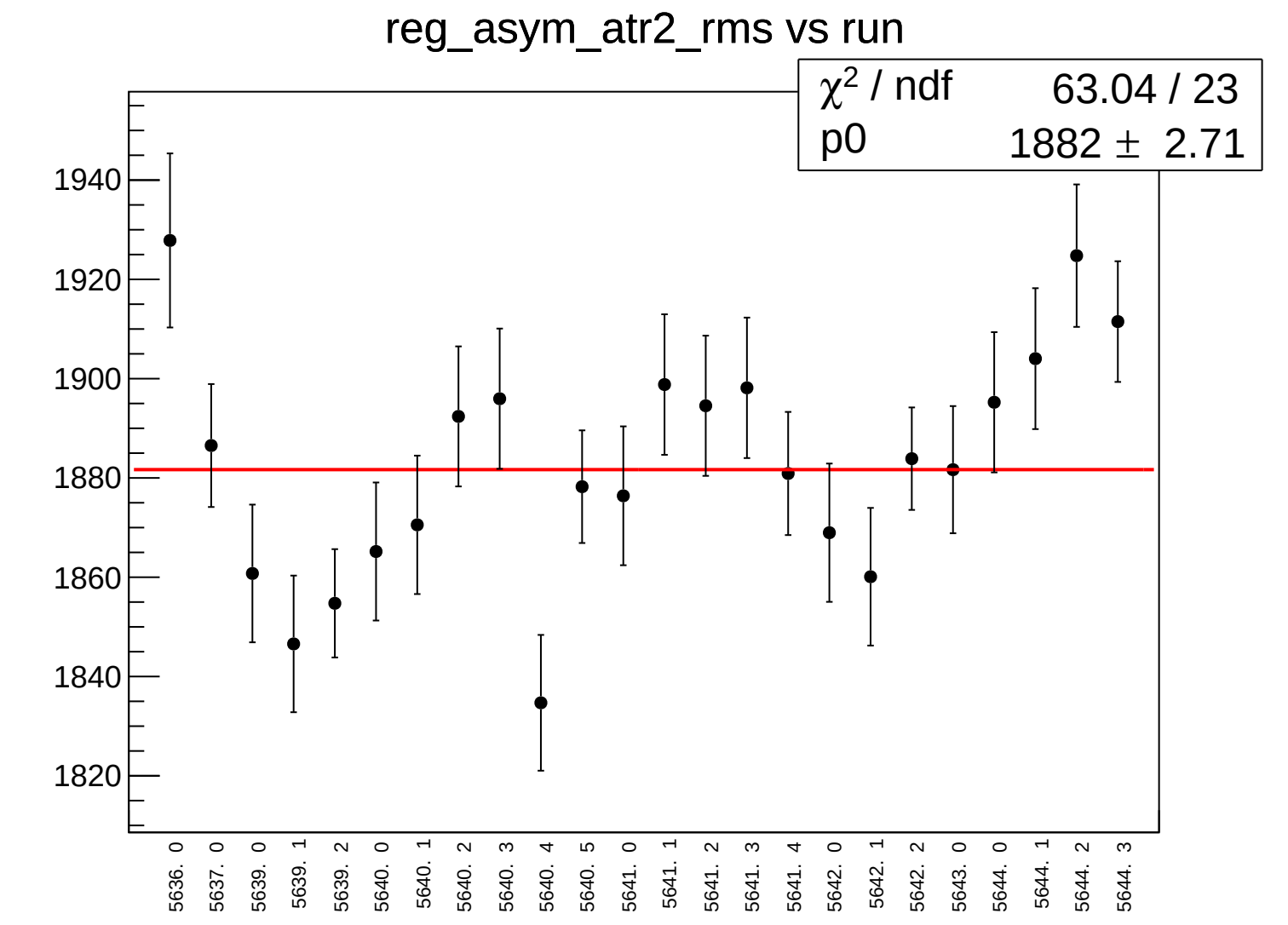

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.822e+04 / 23
p0 64.17 ± 0.09973
220
200
180
160
140
120
100
80
60
40
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

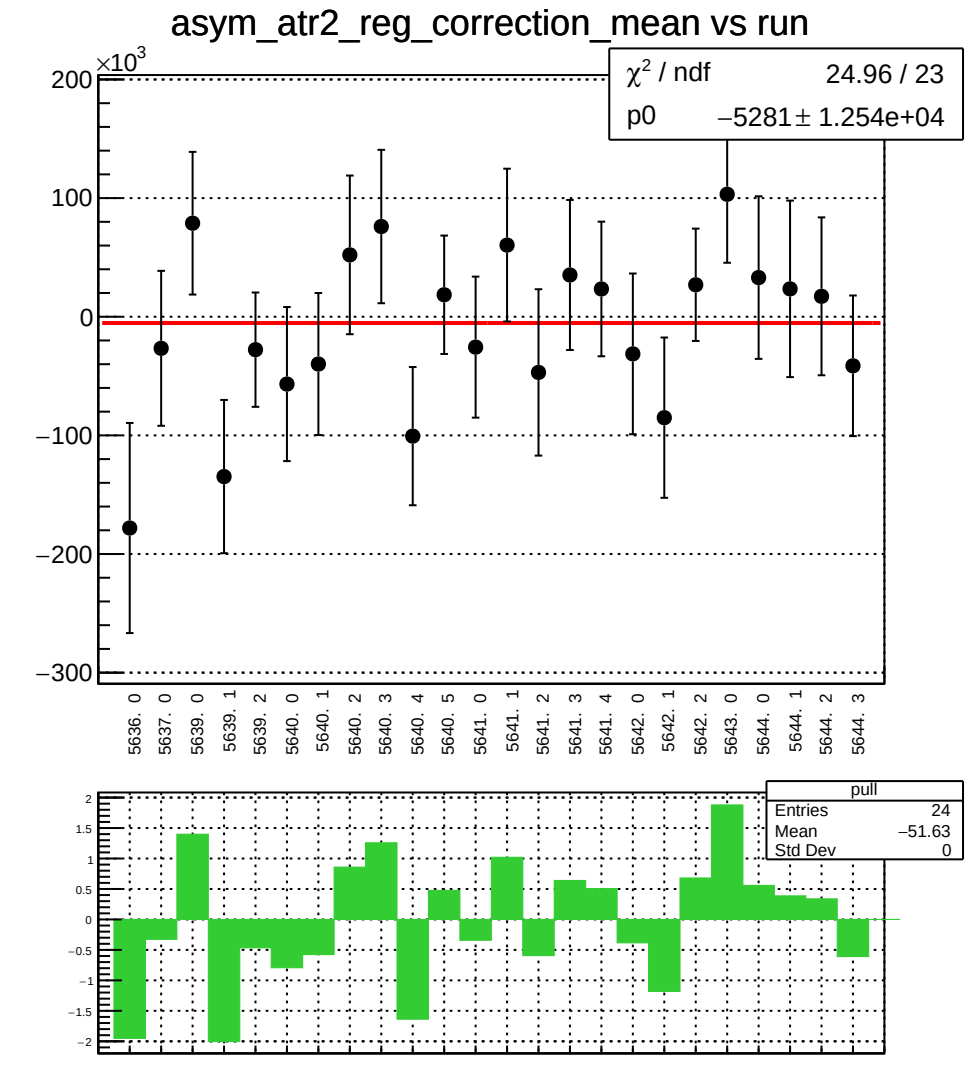

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 28.08 / 23
p0 −1.293e−13 ± 7.924e−14
6
4
2
0
−2
−4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 83.12
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean −0.04093
Std Dev 1.081
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

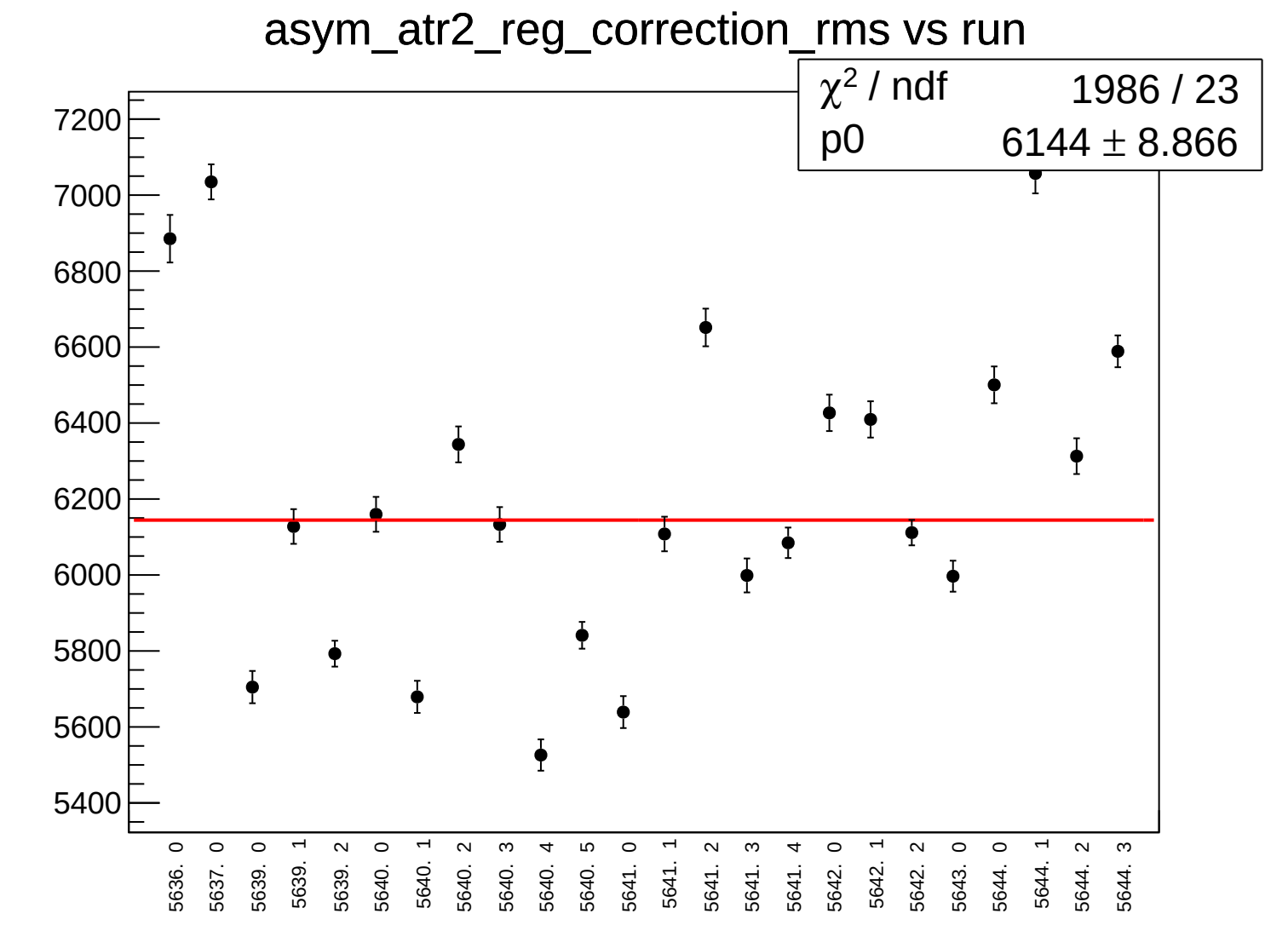

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.028e+05 / 23
p0 2.962e−11 ± 5.603e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

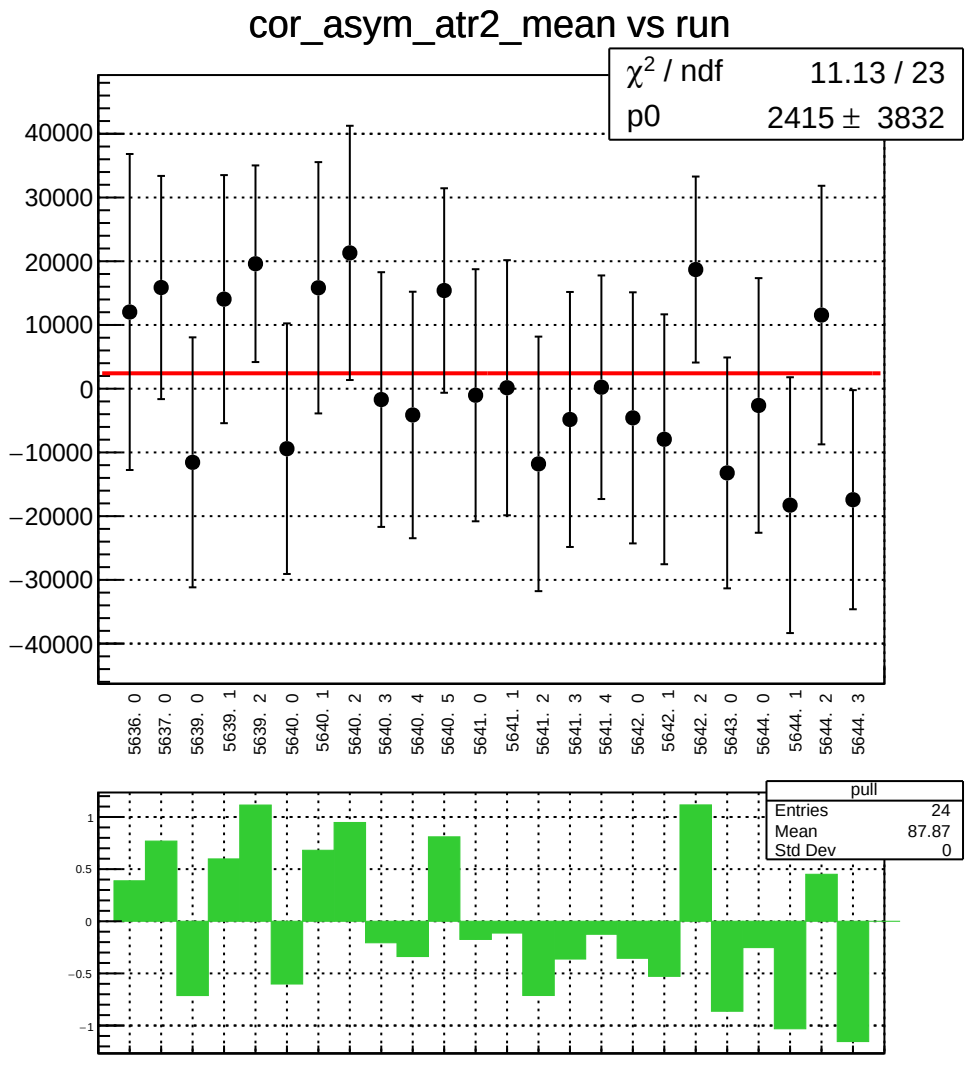

reg_asym_atr2_mean vs run
χ² / ndf 11.13 / 23
p0 2415 ± 3832
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 87.87
Std Dev 0
1
0.5
0
−0.5
−1

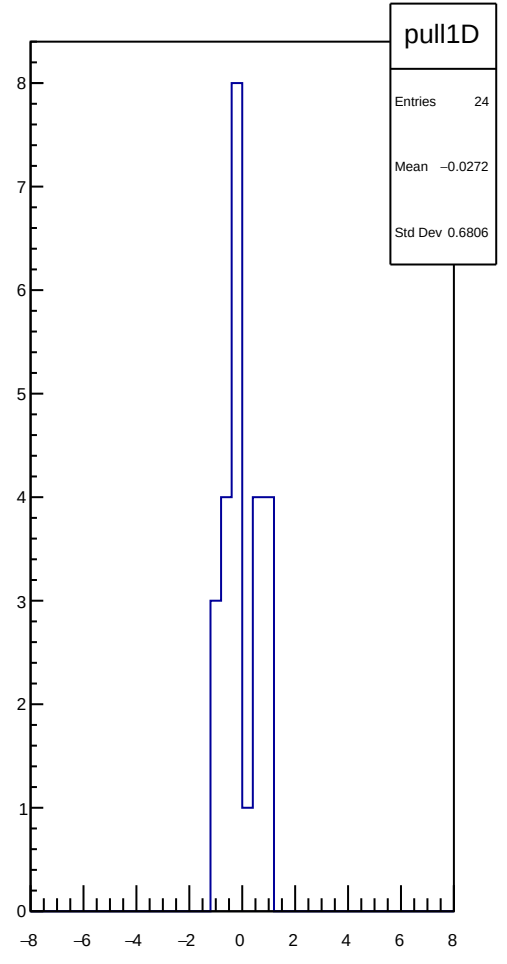

pull1D
Entries 24
Mean −0.0272
Std Dev 0.6806
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

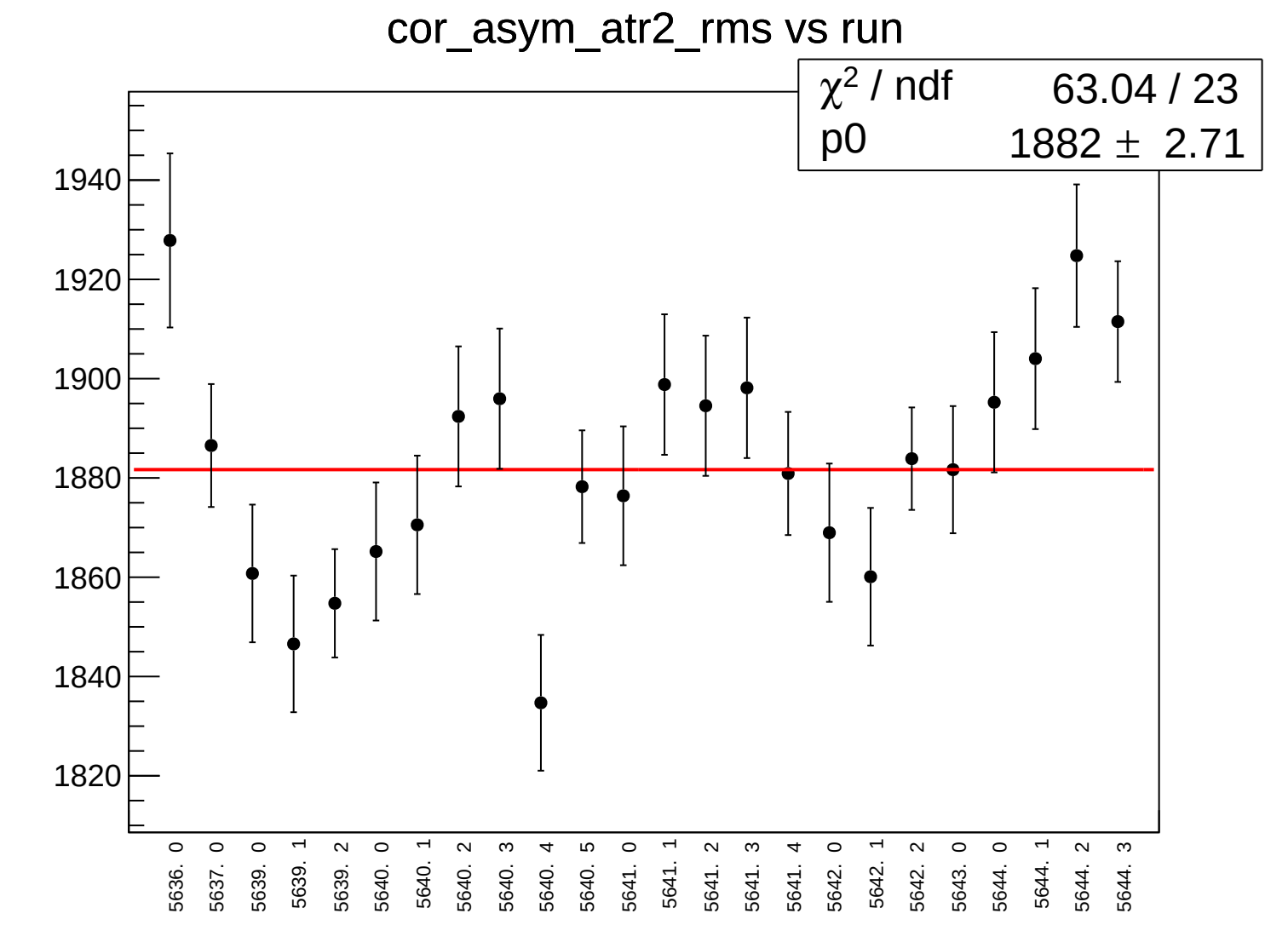

reg_asym_atr2_rms vs run
χ² / ndf 63.04 / 23
p0 1882 ± 2.71
1940
1920
1900
1880
1860
1840
1820
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

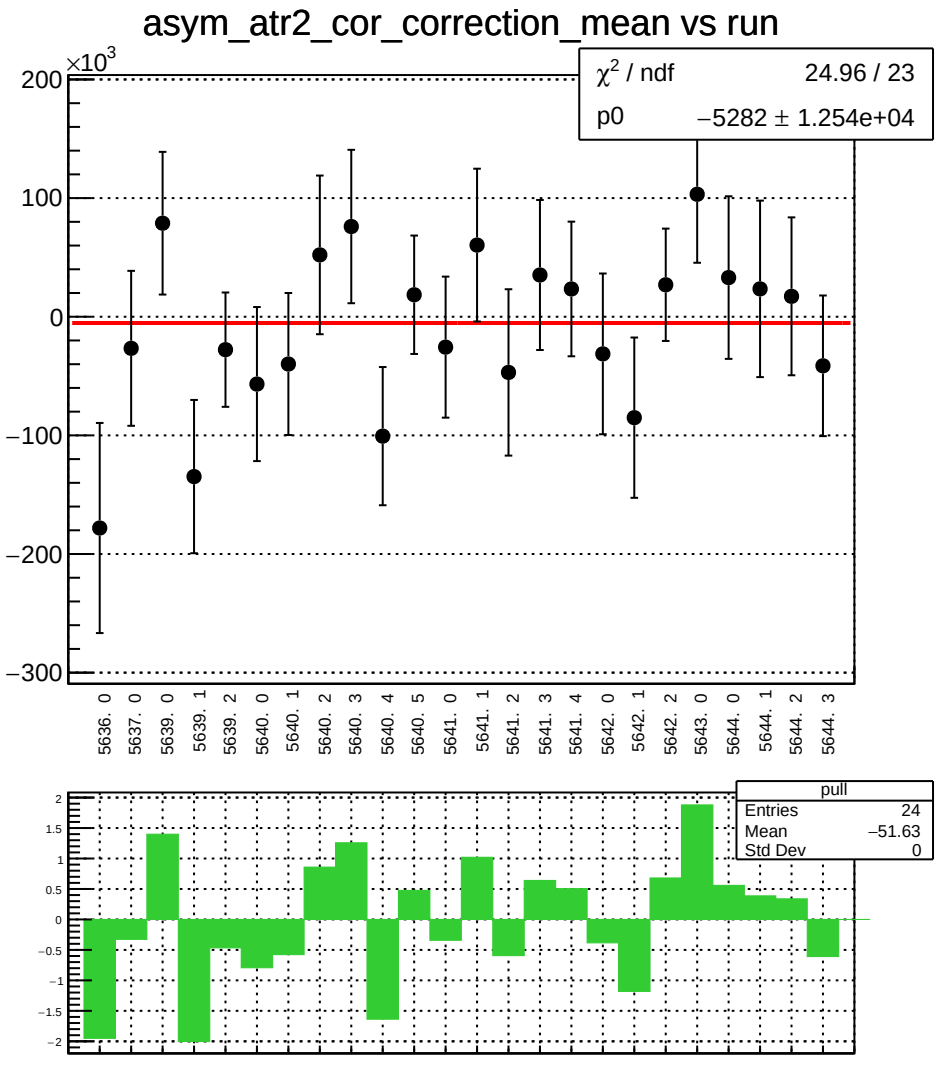

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 24.96 / 23
p0 −5281 ± 1.254e+04
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −51.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.03601
Std Dev 1.019
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

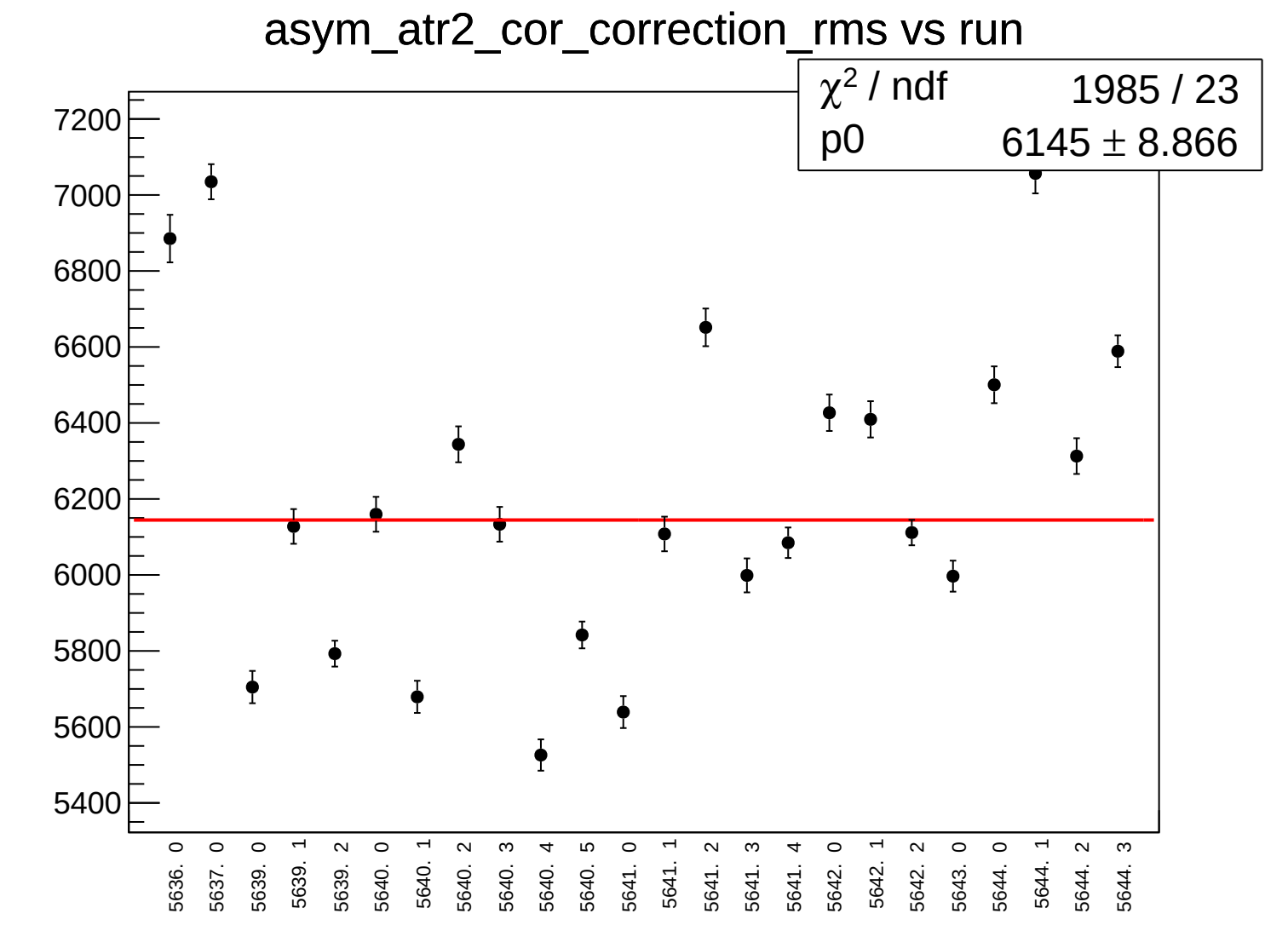

asym_atr2_reg_correction_rms vs run
χ² / ndf 1986 / 23
p0 6144 ± 8.866
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

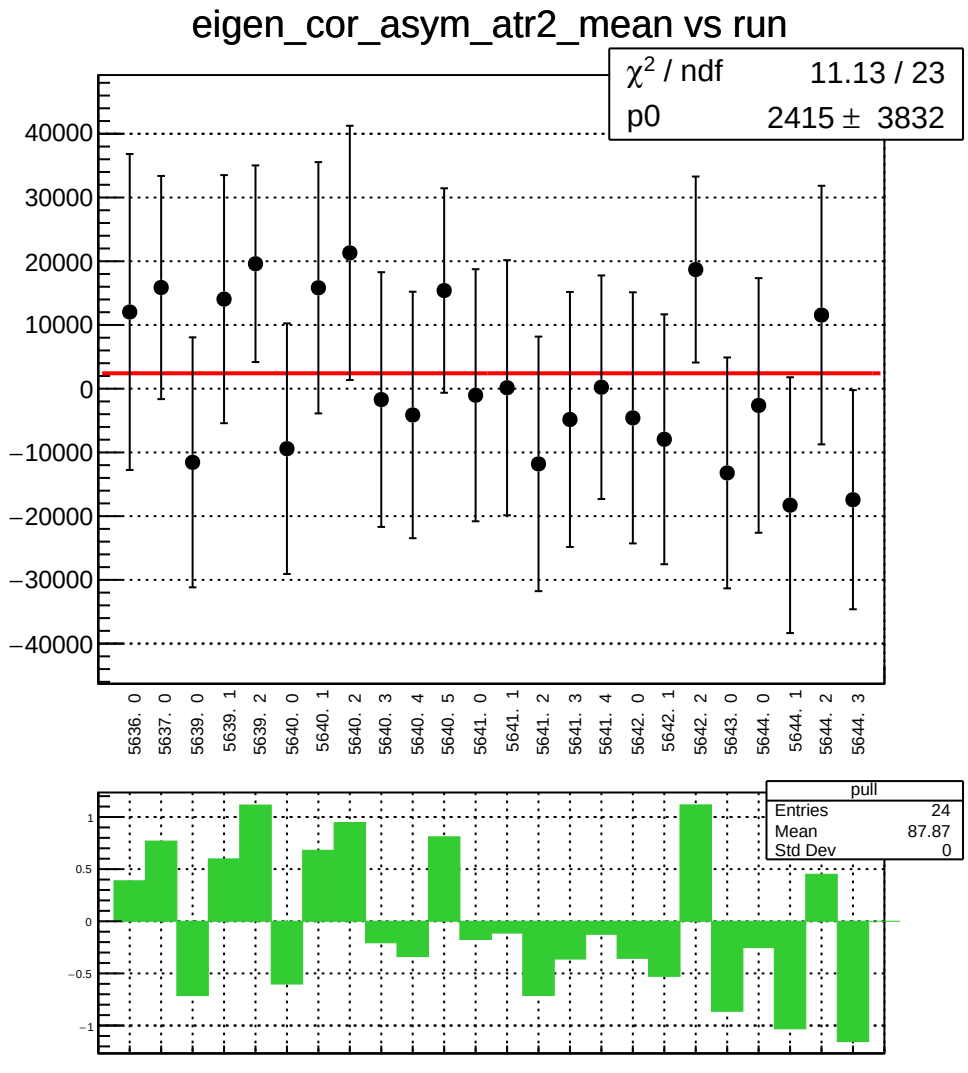

cor_asym_atr2_mean vs run
χ² / ndf 11.13 / 23
p0 2415 ± 3832
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 87.87
Std Dev 0
1
0.5
0
−0.5
−1

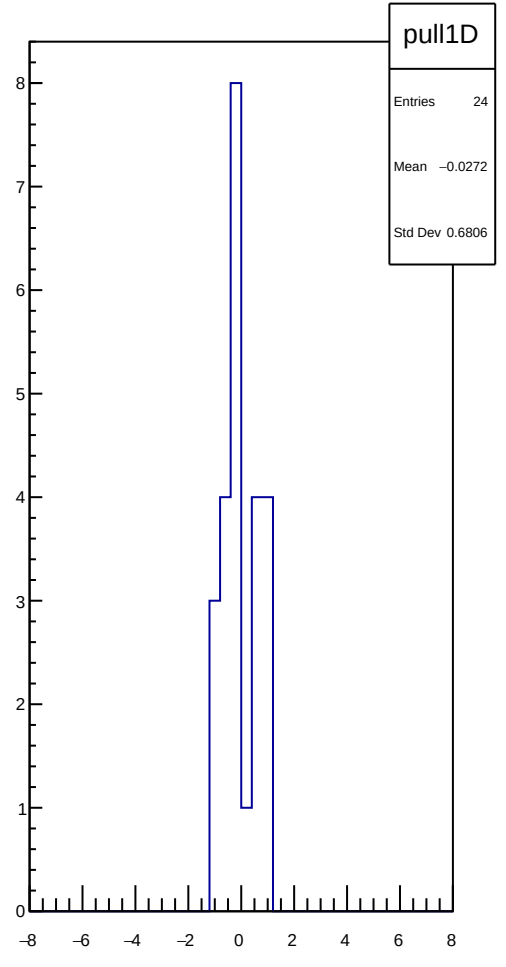

pull1D
Entries 24
Mean −0.0272
Std Dev 0.6806
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

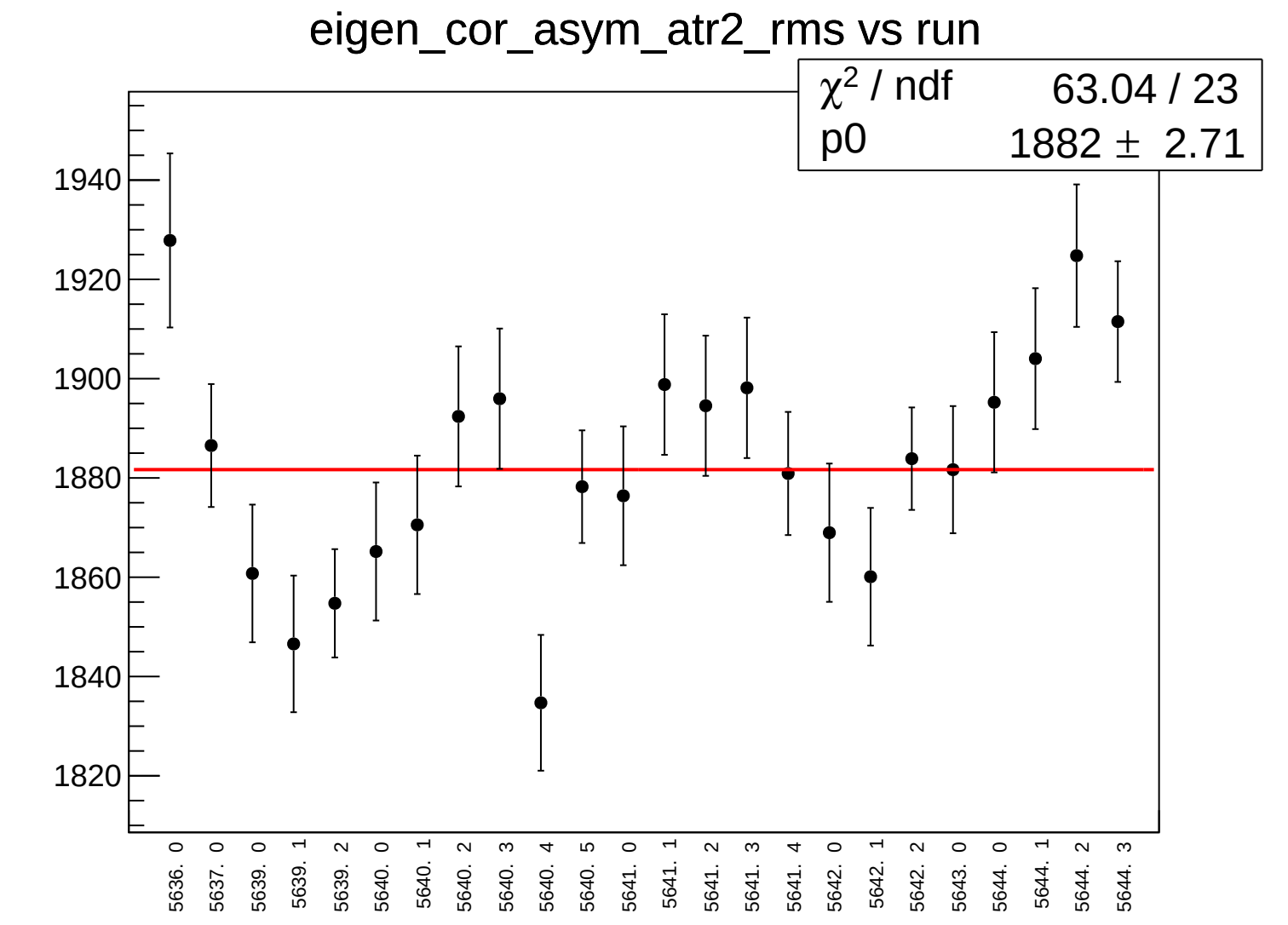

cor_asym_atr2_rms vs run
χ² / ndf 63.04 / 23
p0 1882 ± 2.71
1940
1920
1900
1880
1860
1840
1820
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

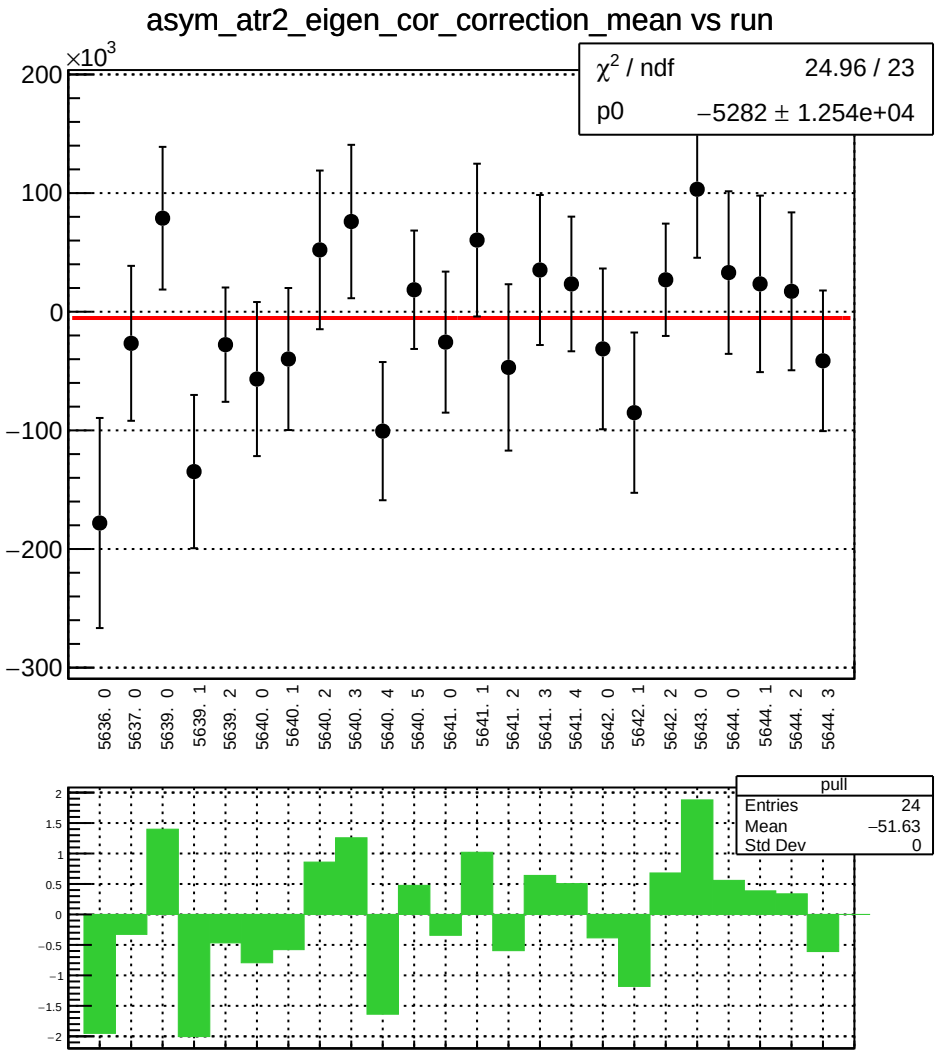

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 24.96 / 23
p0 −5282 ± 1.254e+04
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −51.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.036
Std Dev 1.019
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

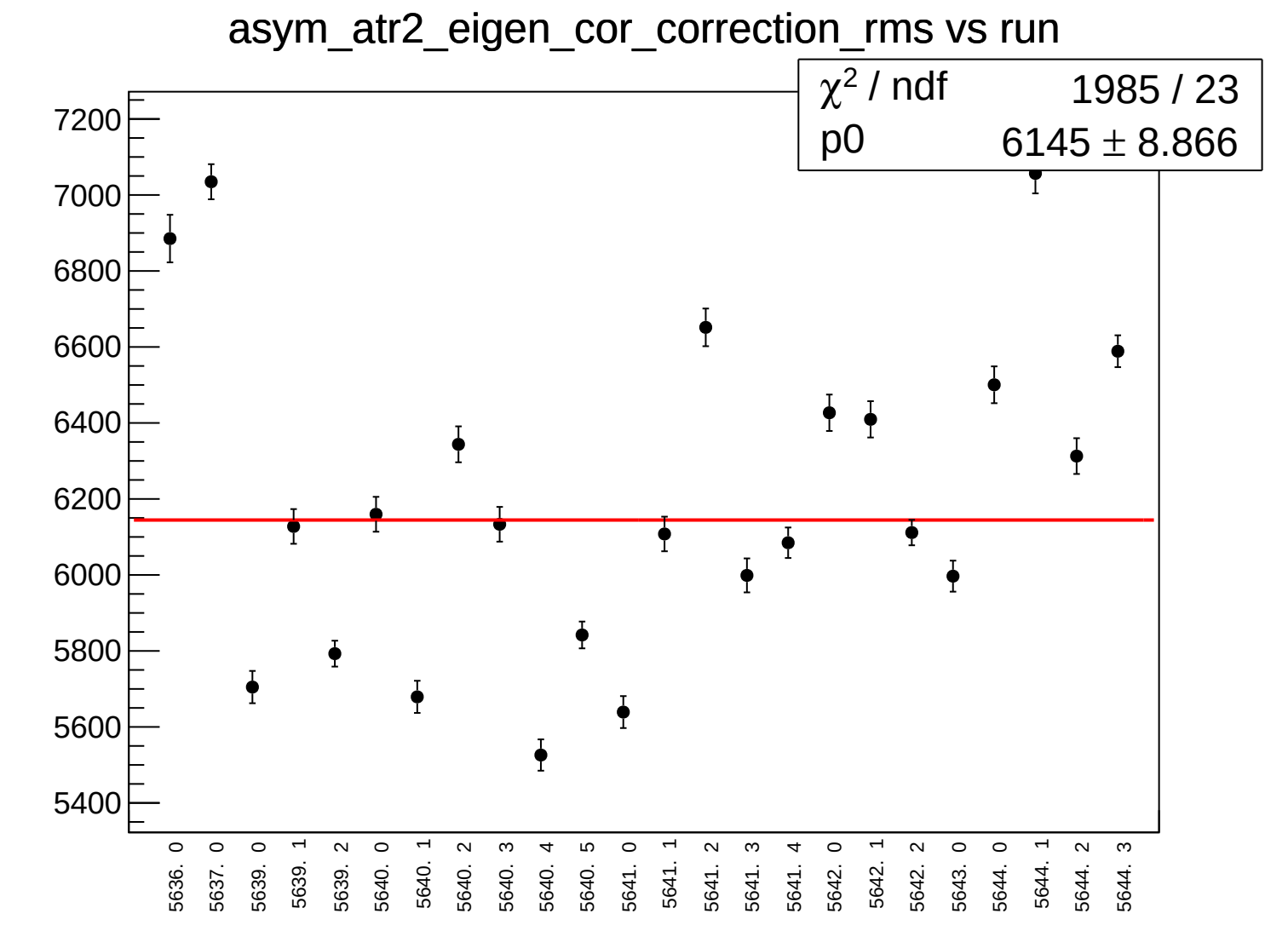

asym_atr2_cor_correction_rms vs run
χ² / ndf 1985 / 23
p0 6145 ± 8.866
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

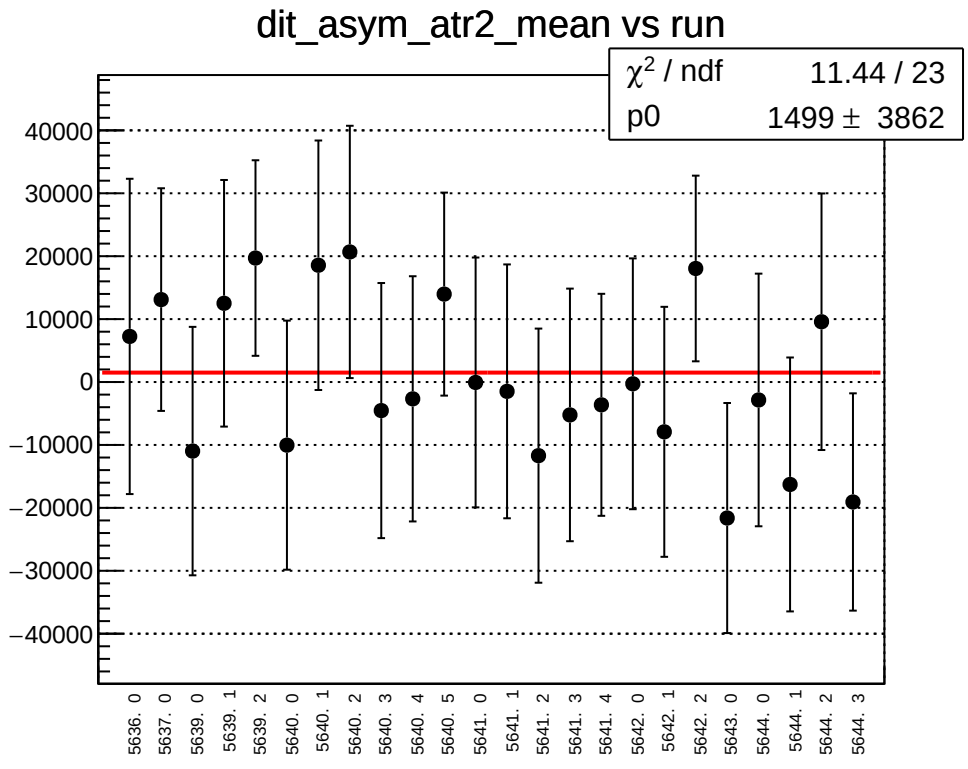

eigen_cor_asym_atr2_mean vs run
χ² / ndf 11.13 / 23
p0 2415 ± 3832
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 87.87
Std Dev 0
1
0.5
0
−0.5
−1

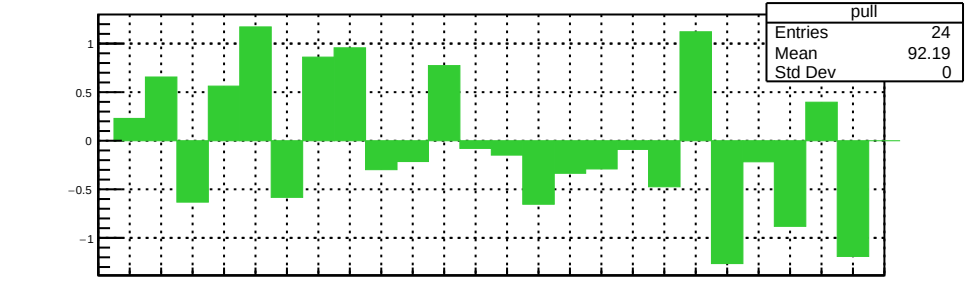

pull1D
Entries 24
Mean −0.0272
Std Dev 0.6806
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

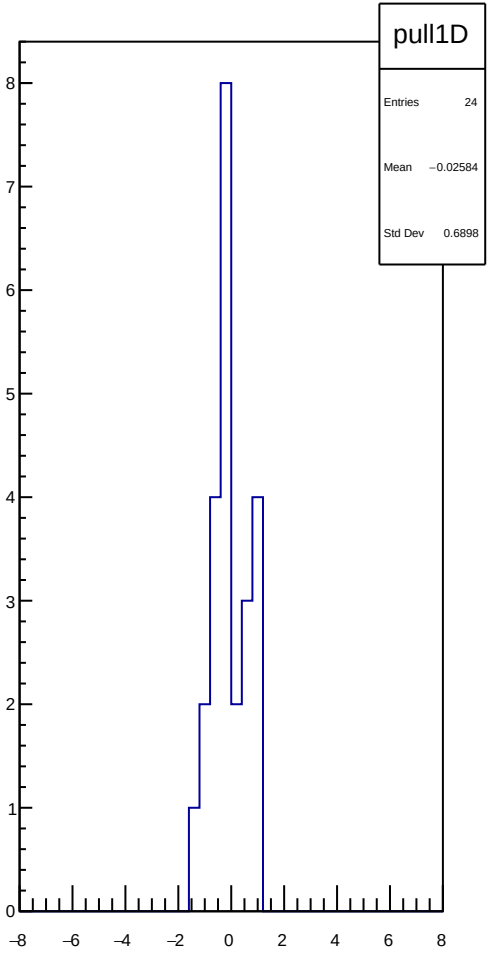

eigen_cor_asym_atr2_rms vs run
χ² / ndf 63.04 / 23
p0 1882 ± 2.71
1940
1920
1900
1880
1860
1840
1820
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

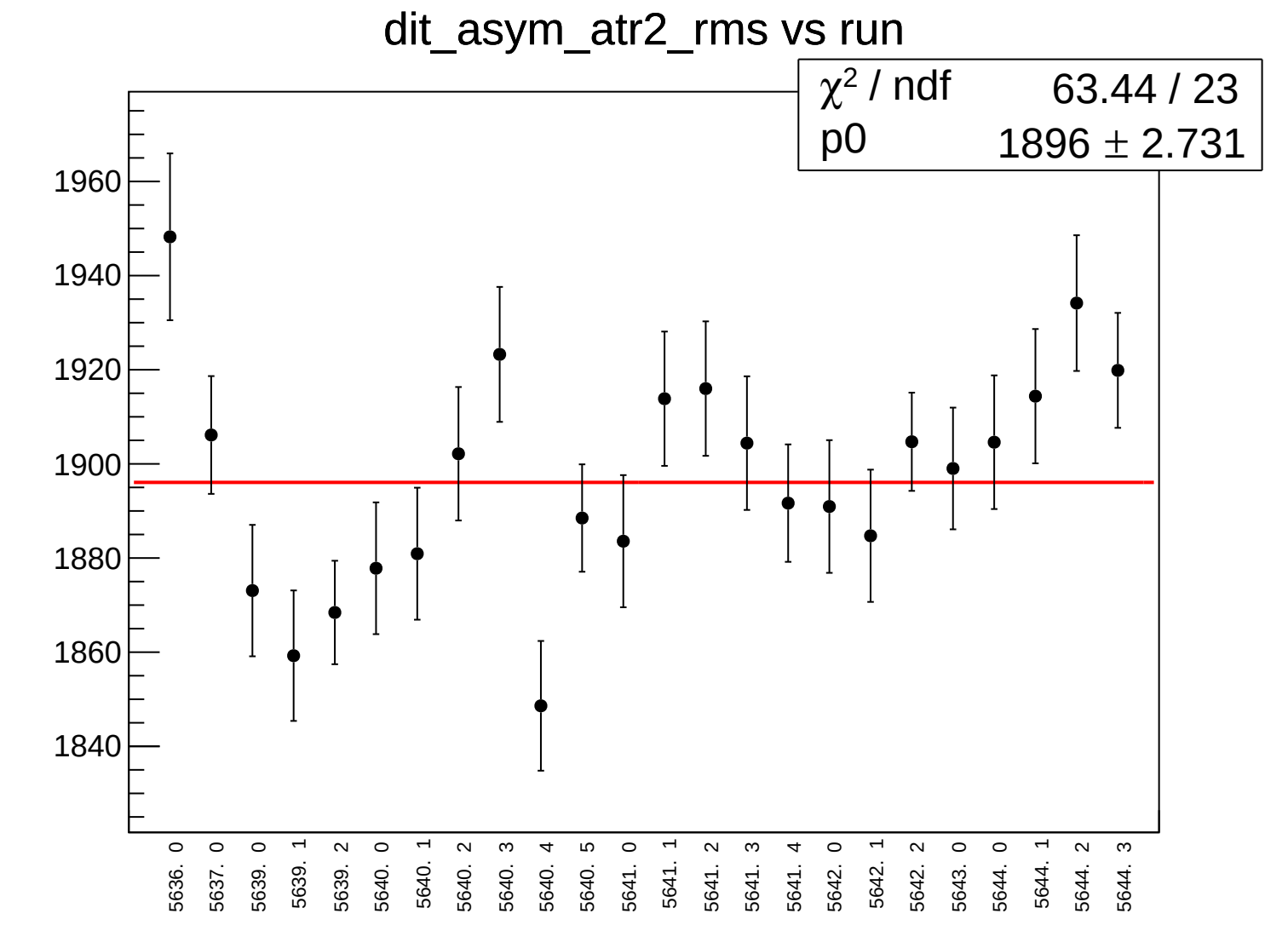

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 24.96 / 23
p0 −5282 ± 1.254e+04
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −51.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.036
Std Dev 1.019
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

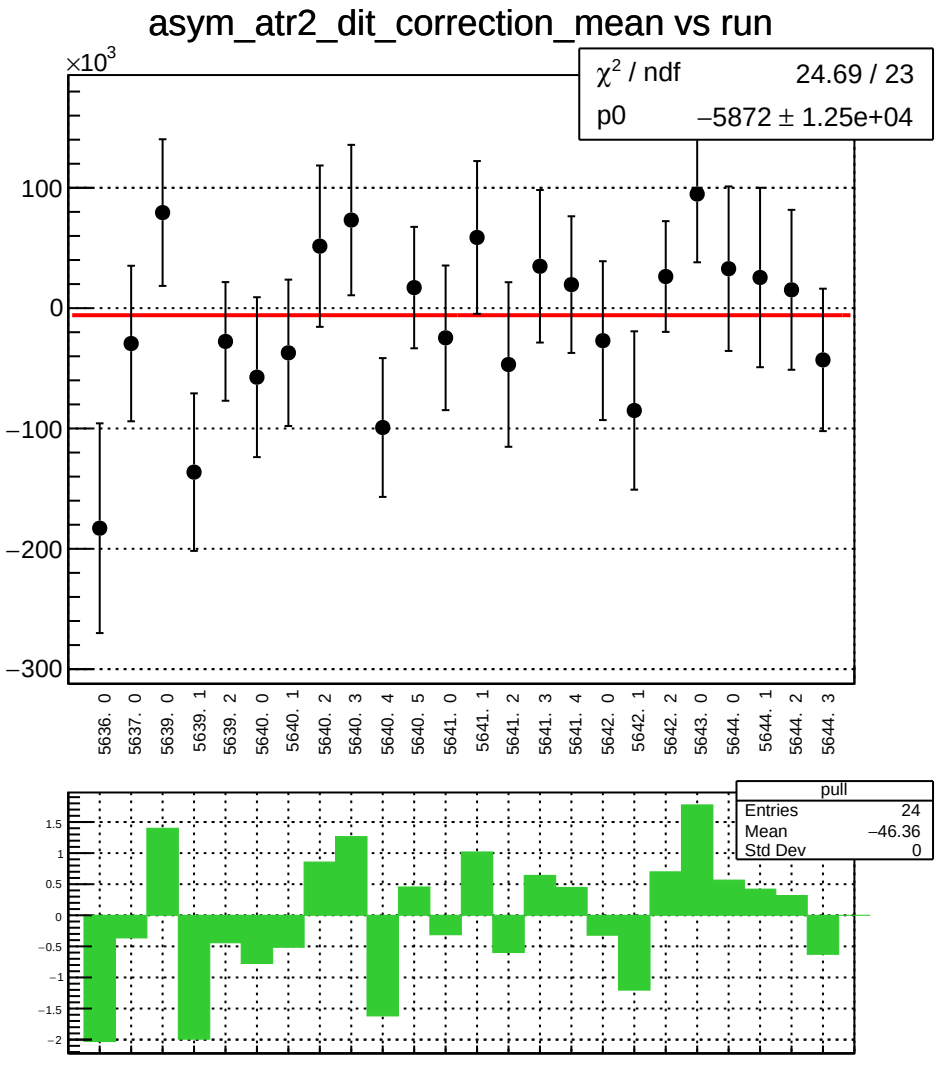

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 1985 / 23
p0 6145 ± 8.866
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

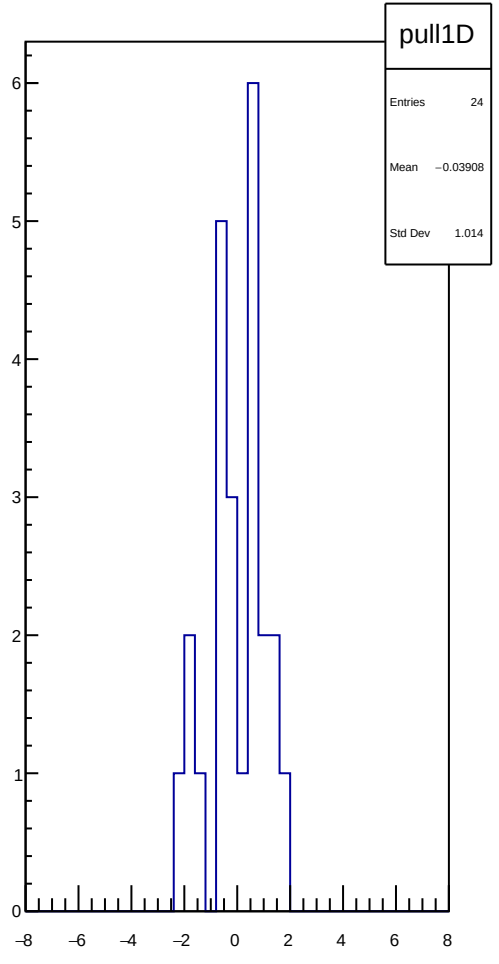

dit_asym_atr2_mean vs run
χ² / ndf 11.44 / 23
p0 1499 ± 3862
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

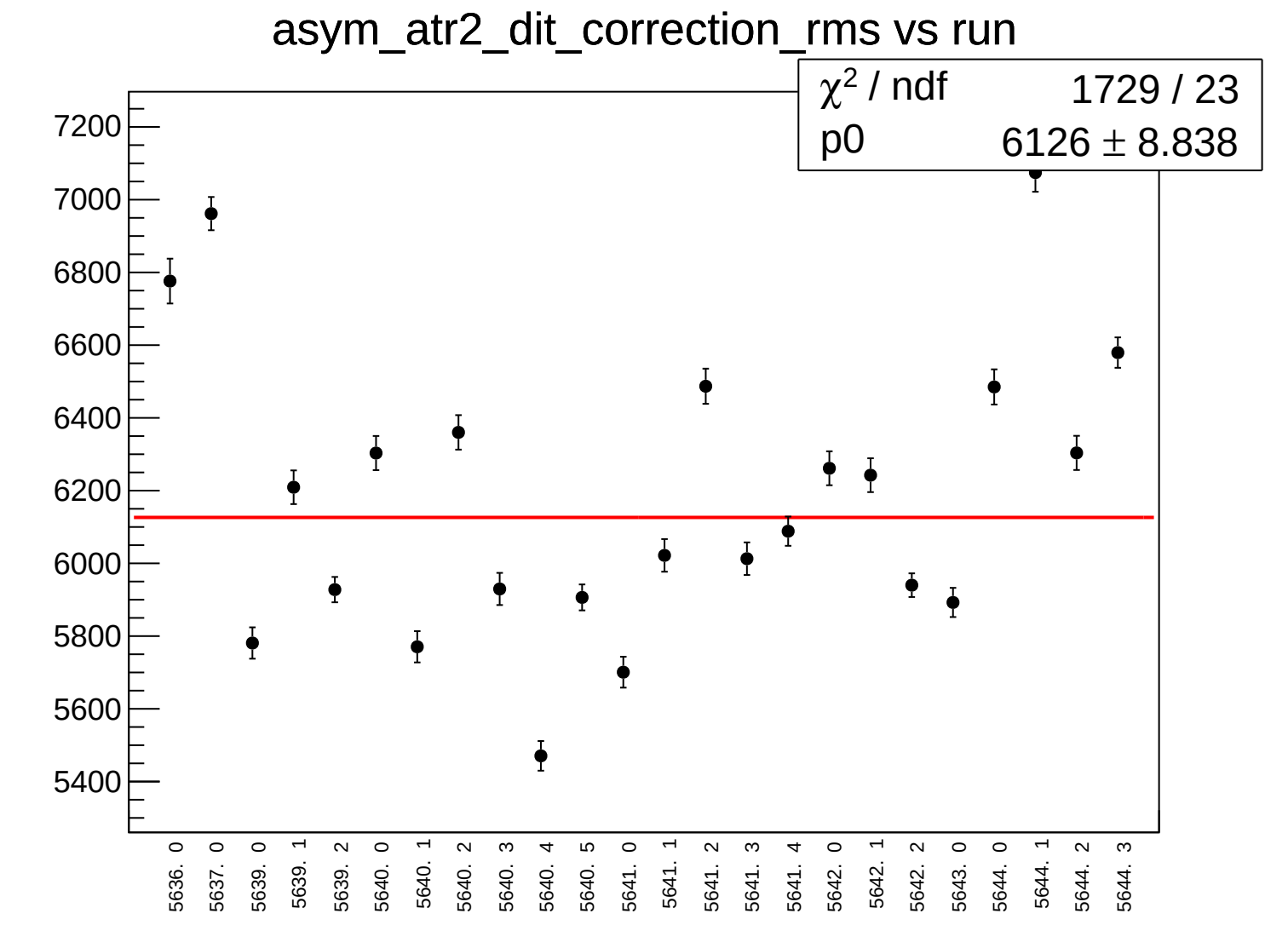

pull
Entries 24
Mean 92.19
Std Dev 0
1
0.5
0
−0.5
−1

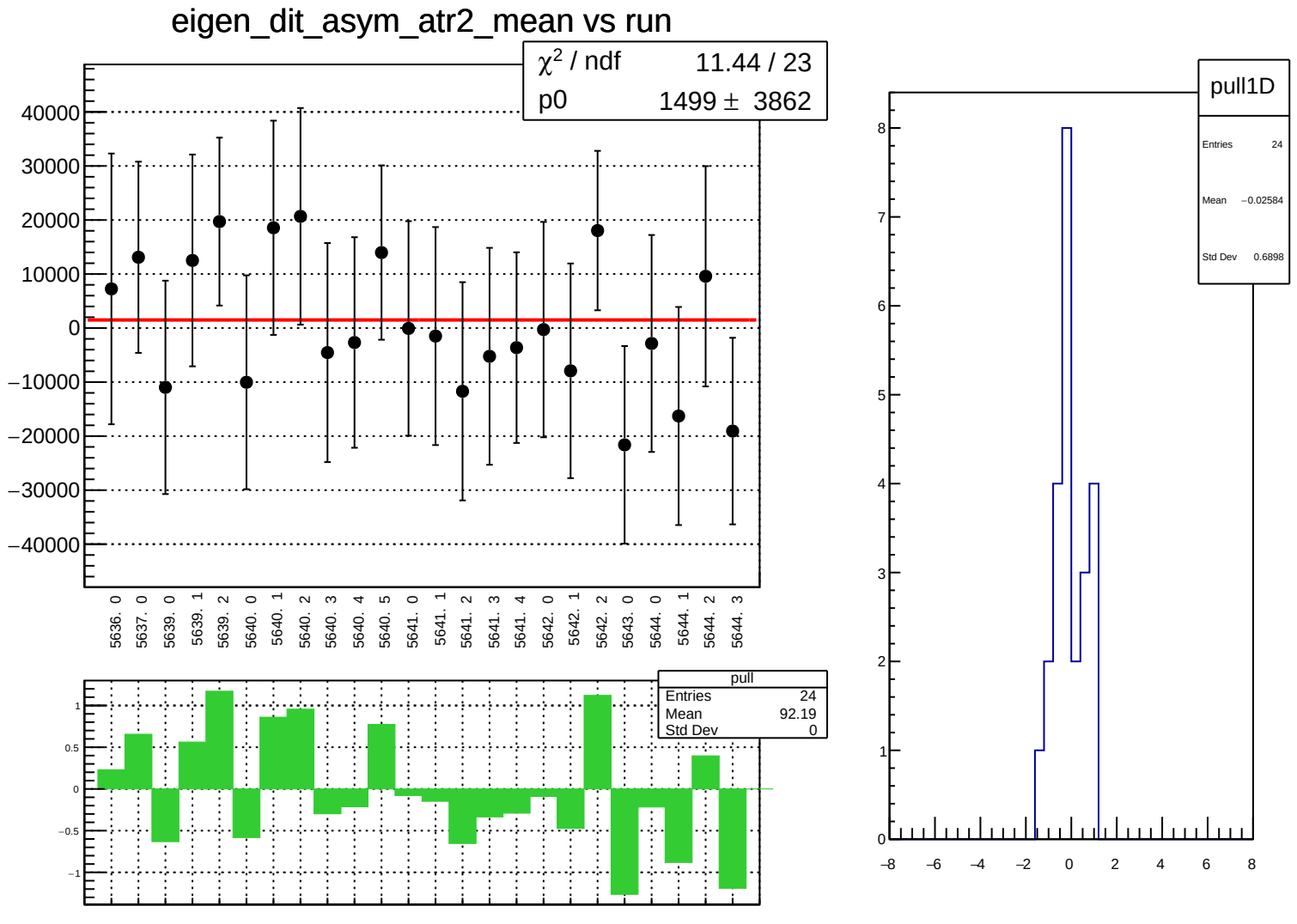

pull1D
Entries 24
Mean −0.02584
Std Dev 0.6898
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

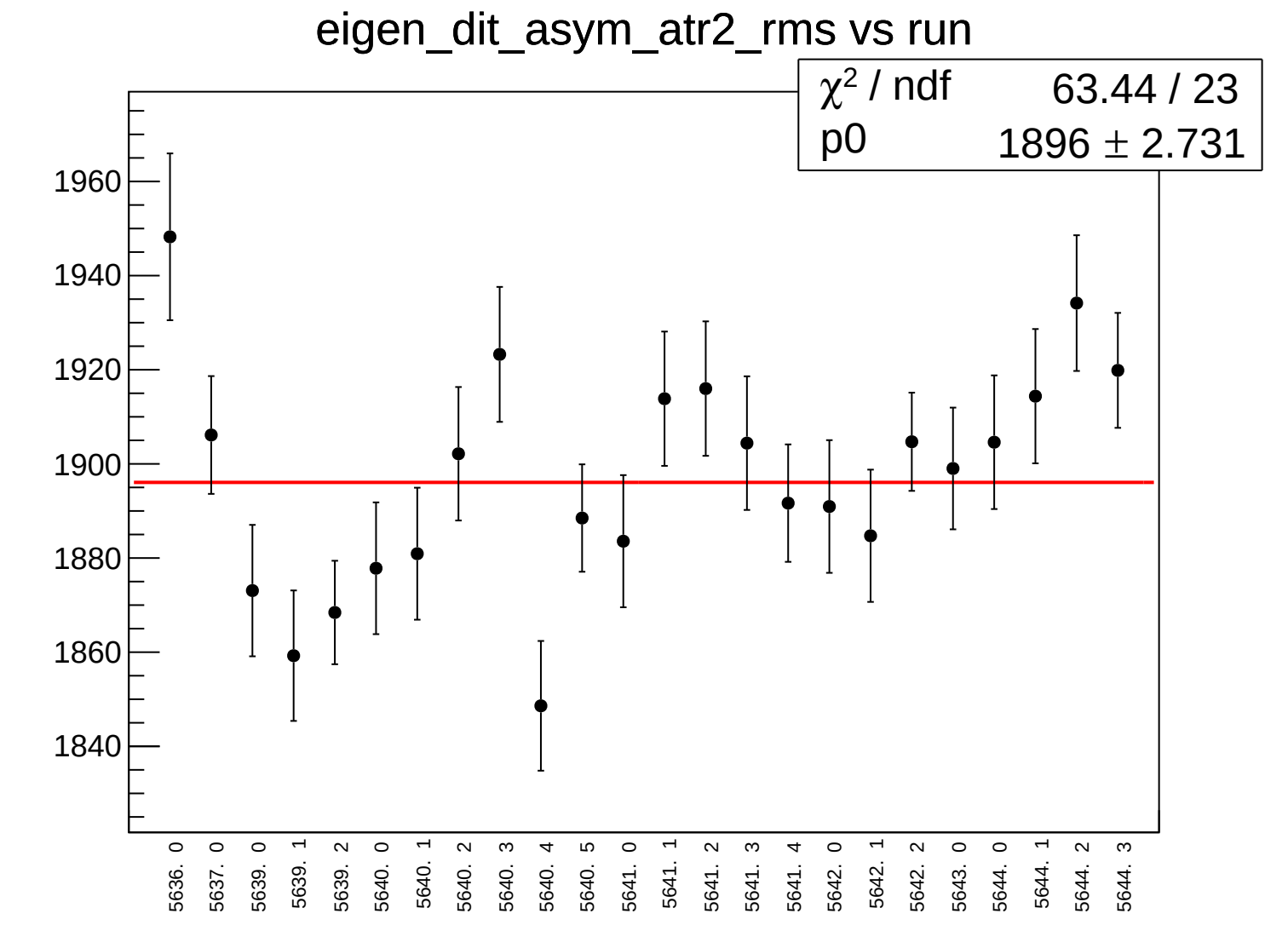

dit_asym_atr2_rms vs run
χ² / ndf 63.44 / 23
p0 1896 ± 2.731
1960
1940
1920
1900
1880
1860
1840
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

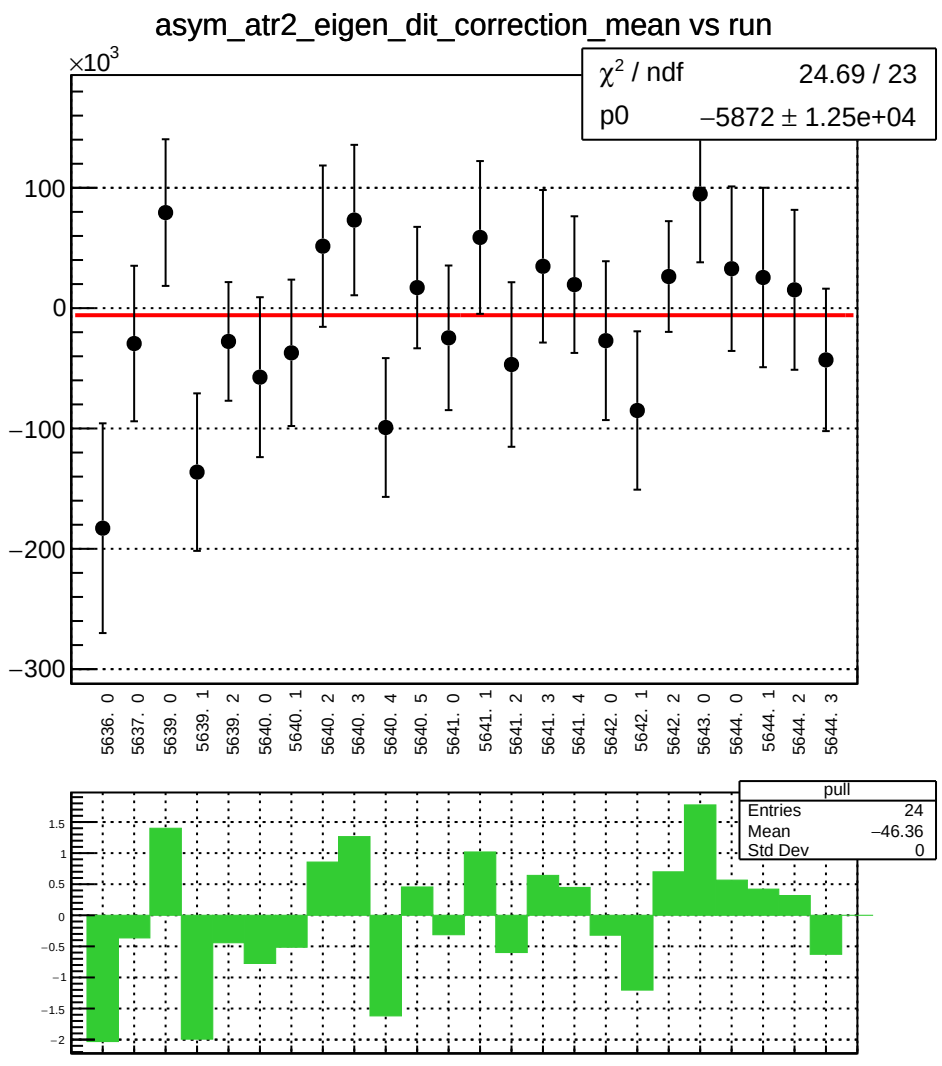

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 24.69 / 23
p0 −5872 ± 1.25e+04
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −46.36
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

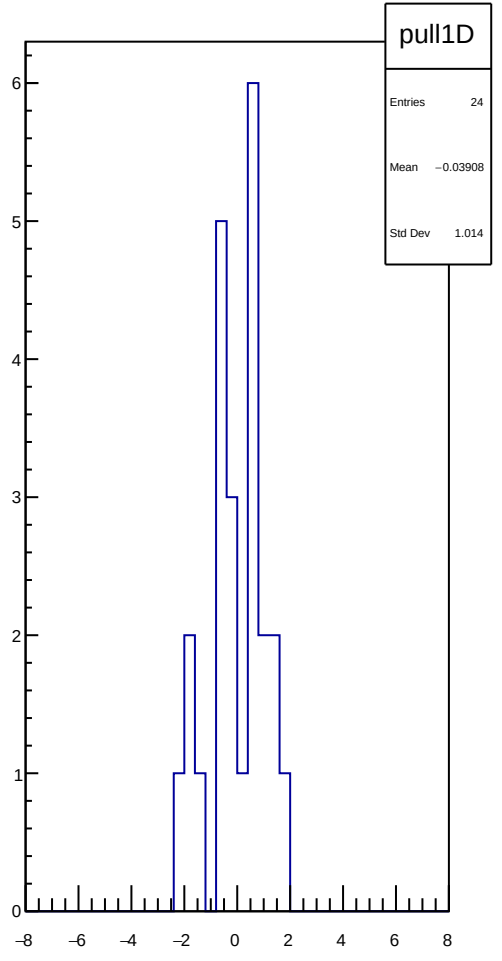

pull1D
Entries 24
Mean −0.03908
Std Dev 1.014
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

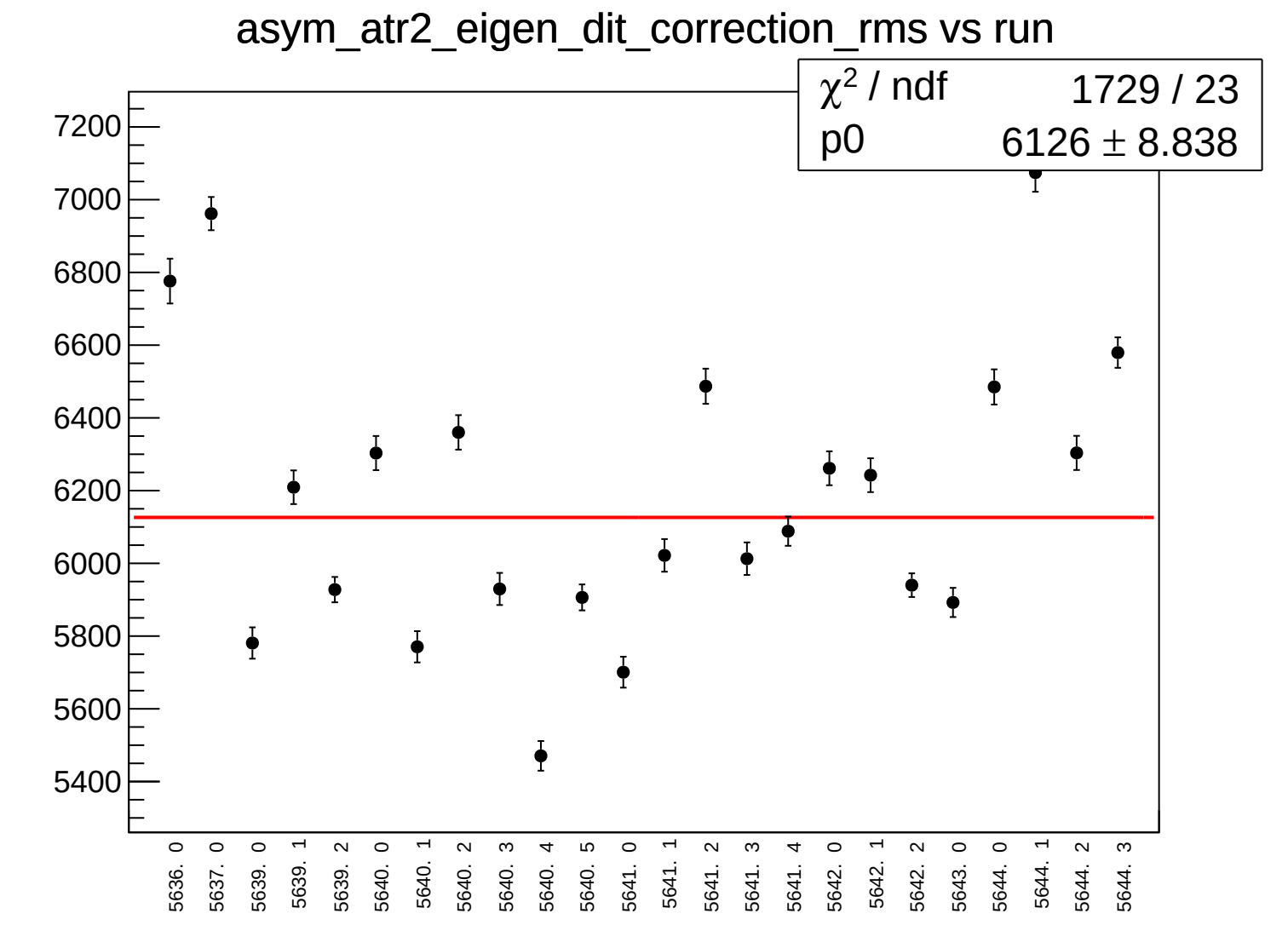

asym_atr2_dit_correction_rms vs run
χ² / ndf 1729 / 23
p0 6126 ± 8.838
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

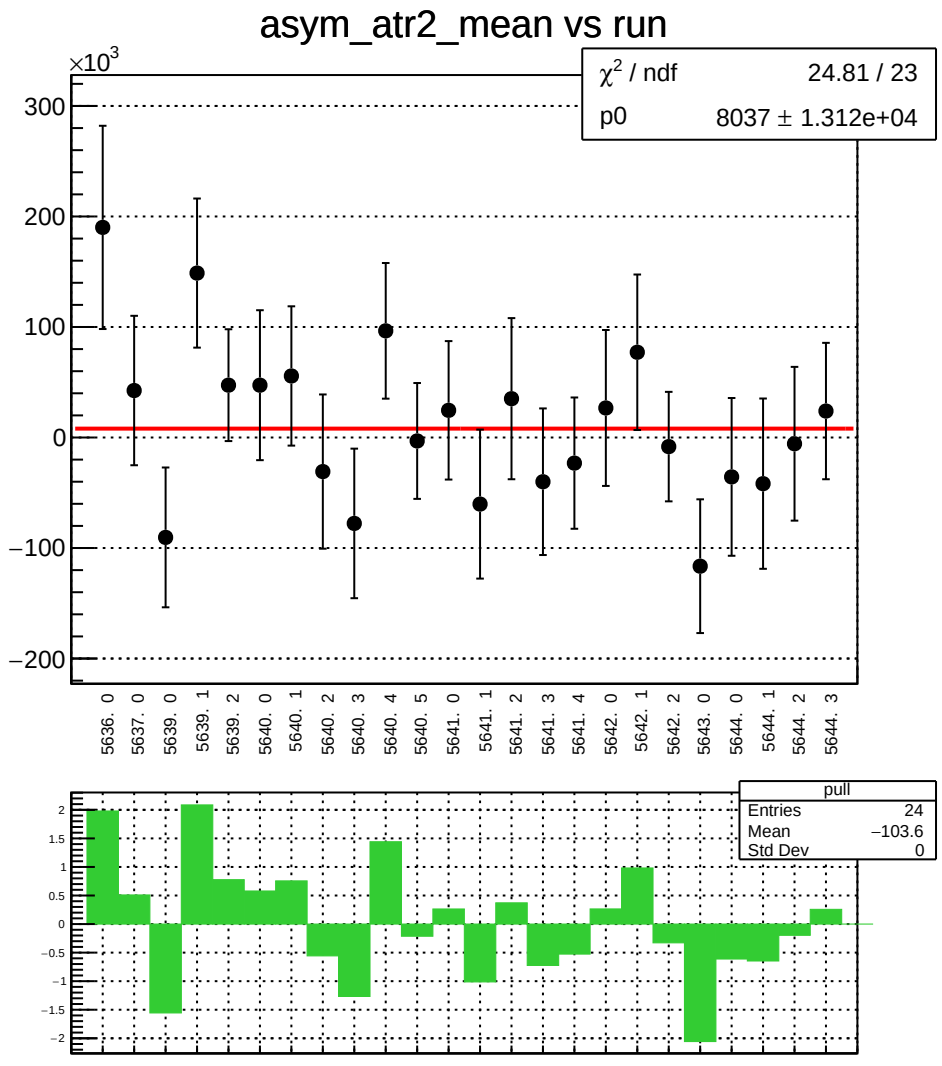

eigen_dit_asym_atr2_mean vs run
χ² / ndf 11.44 / 23
p0 1499 ± 3862
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 92.19
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.02584
Std Dev 0.6898
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

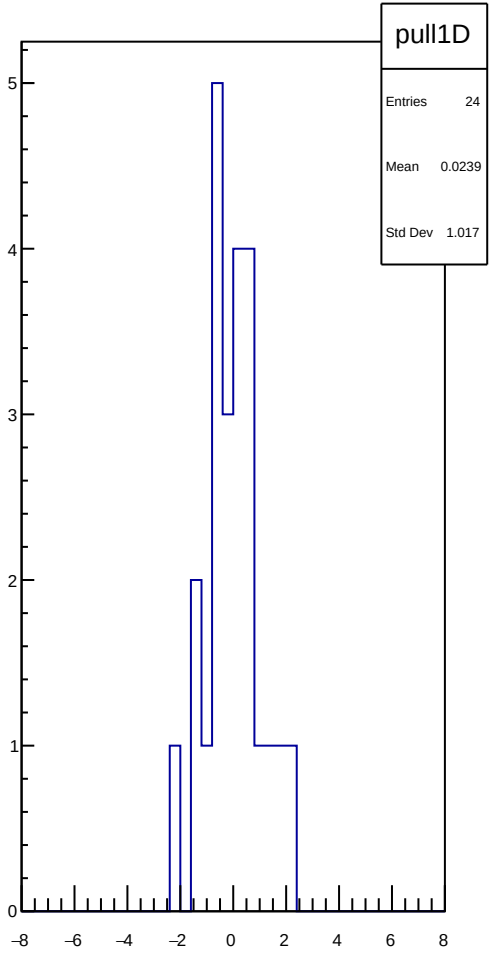

eigen_dit_asym_atr2_rms vs run
χ² / ndf 63.44 / 23
p0 1896 ± 2.731
1960
1940
1920
1900
1880
1860
1840
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

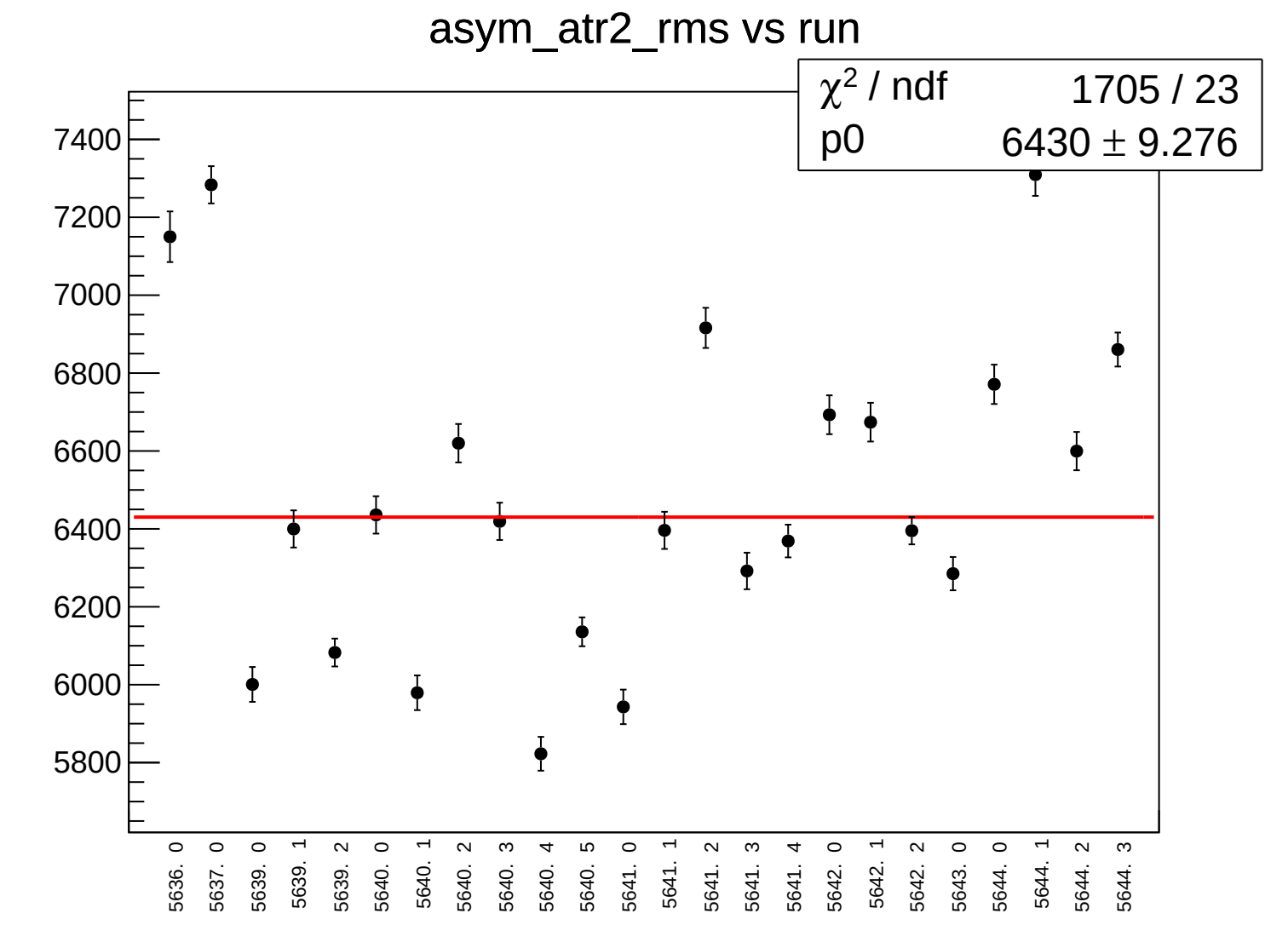

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 24.69 / 23
p0 −5872 ± 1.25e+04
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −46.36
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

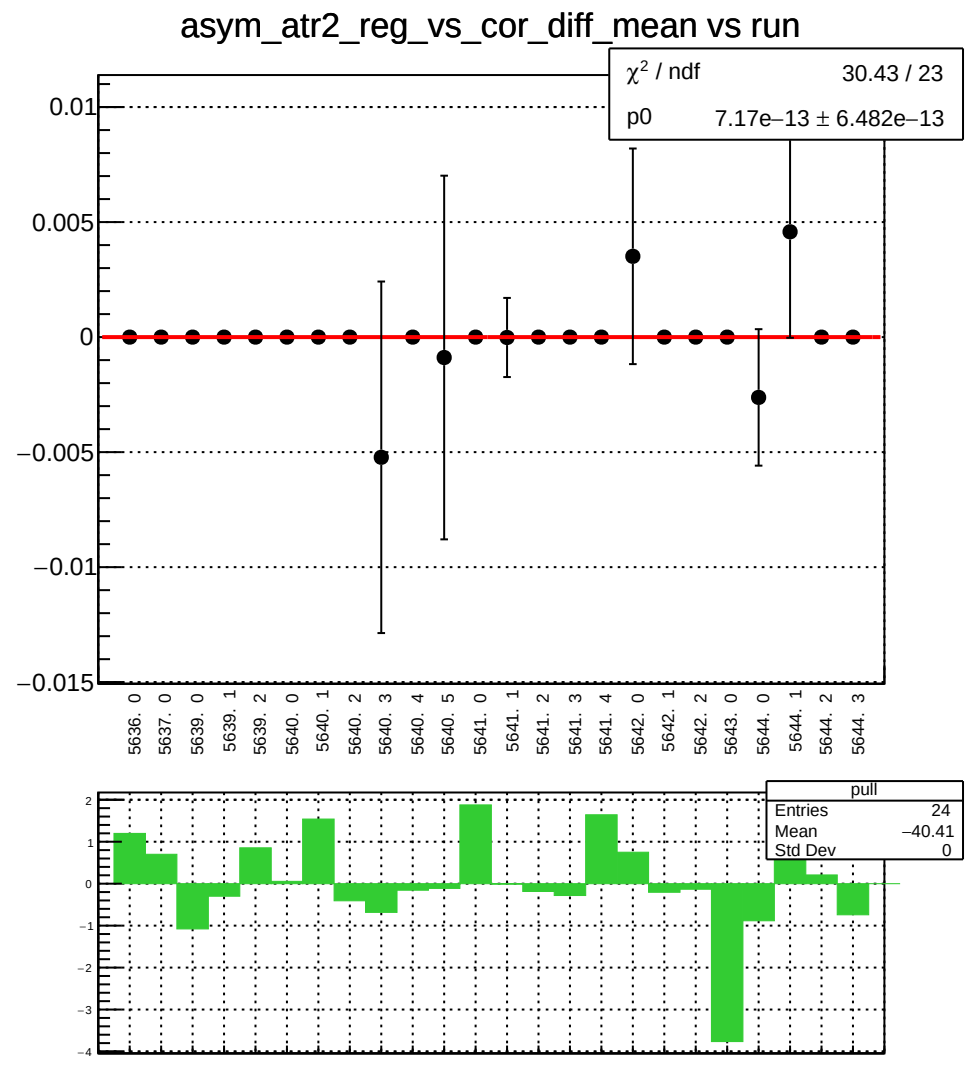

pull1D
Entries 24
Mean −0.03908
Std Dev 1.014
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

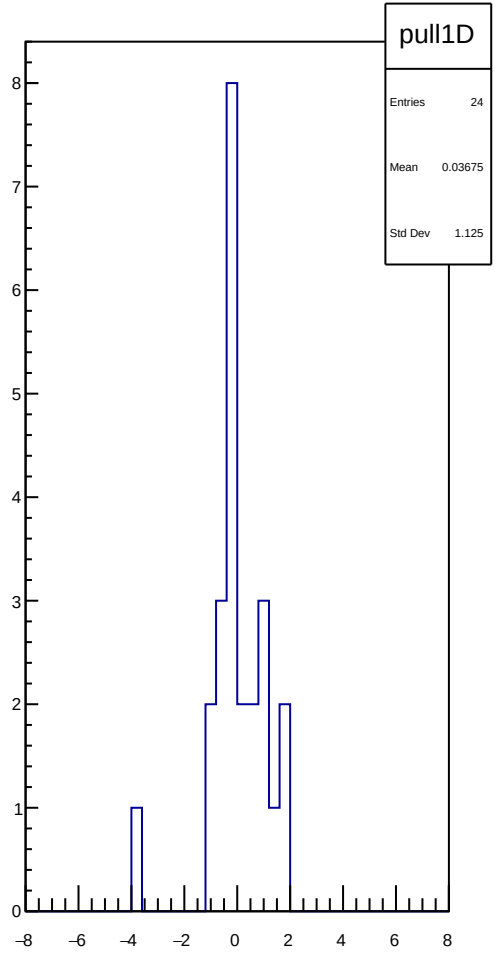

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 1729 / 23
p0 6126 ± 8.838
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

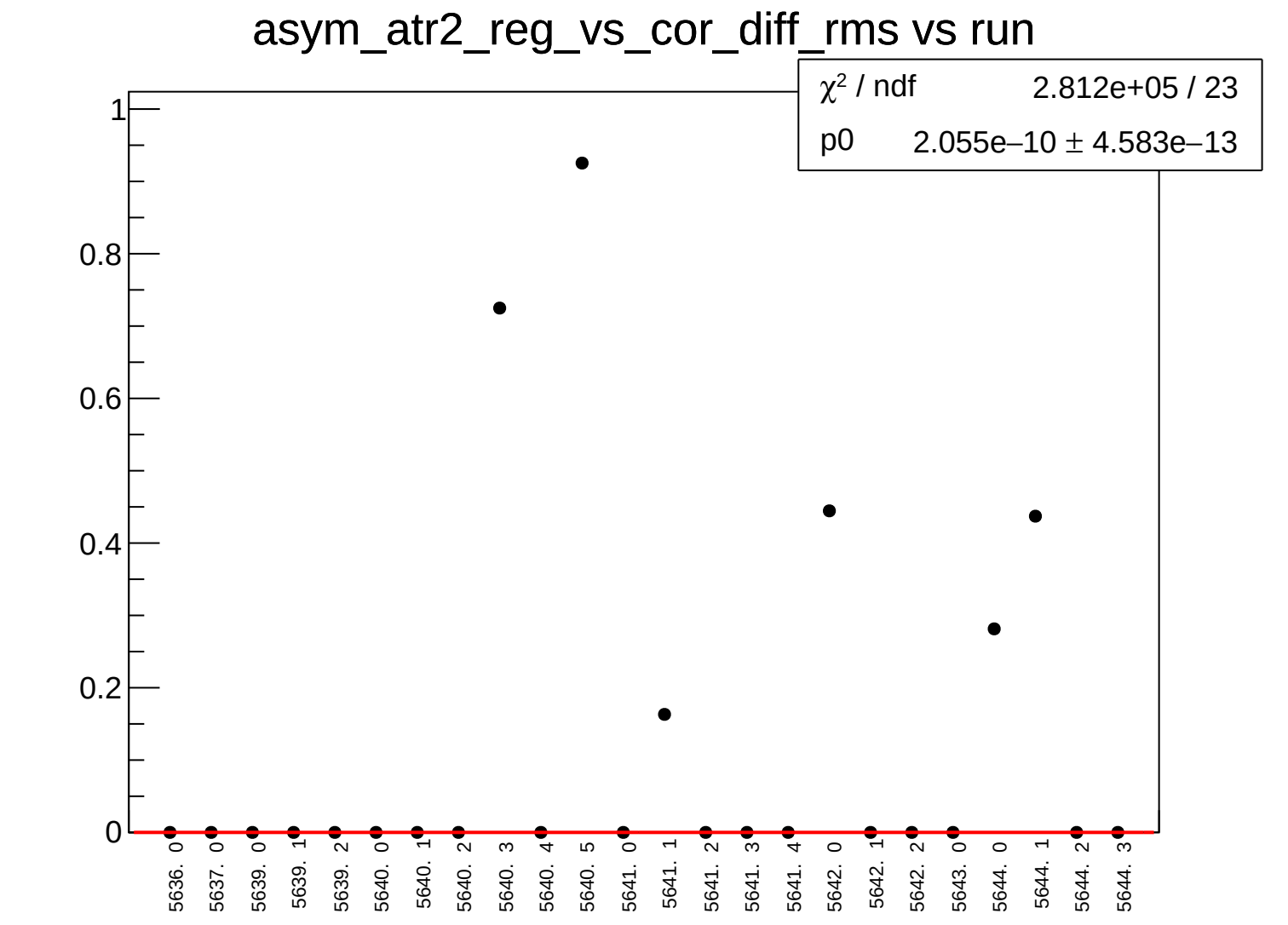

asym_atr2_mean vs run
×10^3
χ² / ndf 24.81 / 23
p0 8037 ± 1.312e+04
300
200
100
0
−100
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −103.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

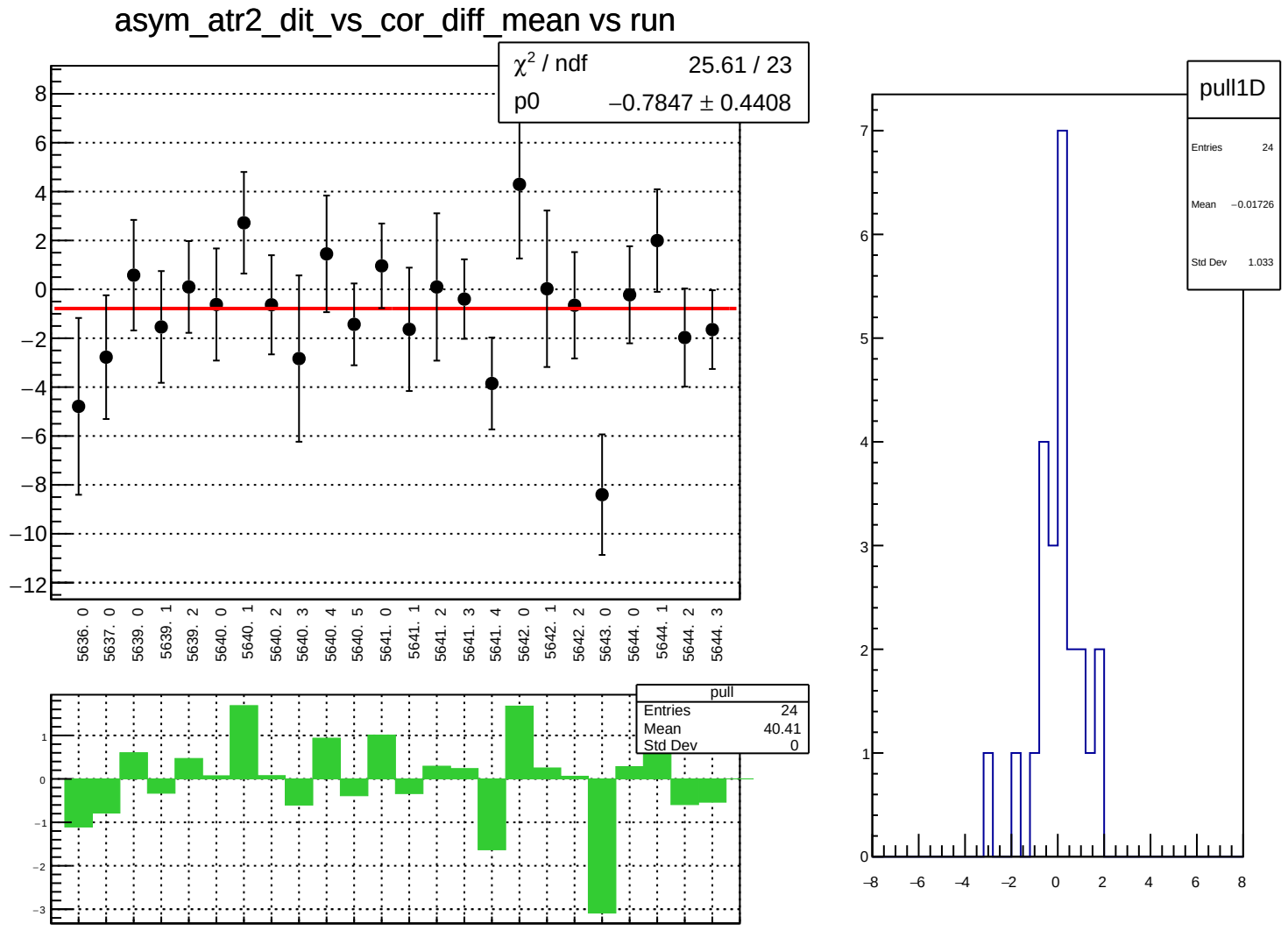

pull1D
Entries 24
Mean 0.0239
Std Dev 1.017
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

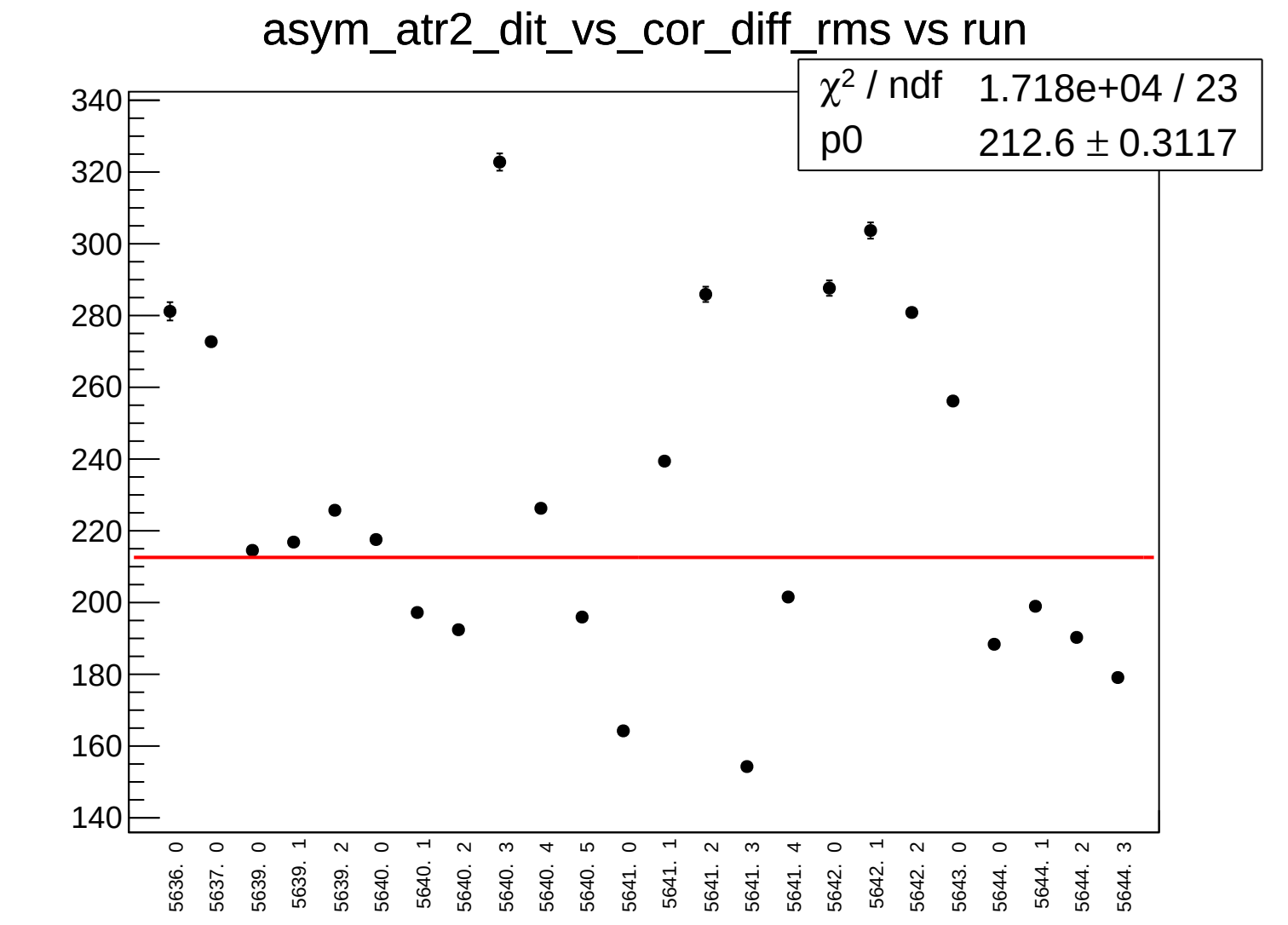

asym_atr2_rms vs run
χ² / ndf 1705 / 23
p0 6430 ± 9.276
7400
7200
7000
6800
6600
6400
6200
6000
5800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

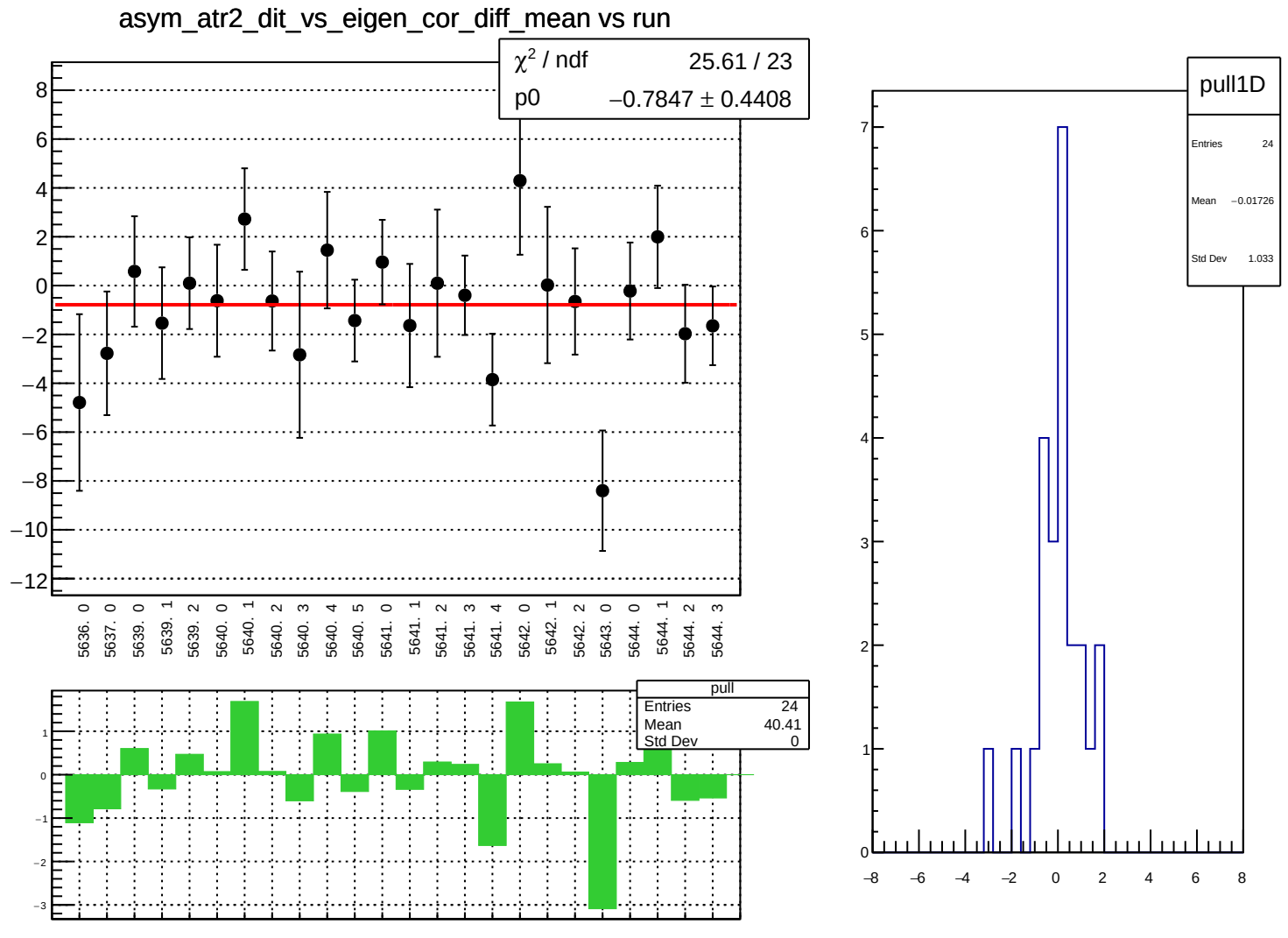

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 30.43 / 23
p0 7.17e−13 ± 6.482e−13
0.01
0.005
0
−0.005
−0.01
−0.015
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −40.41
Std Dev 0
2
1
0
−1
−2
−3
−4

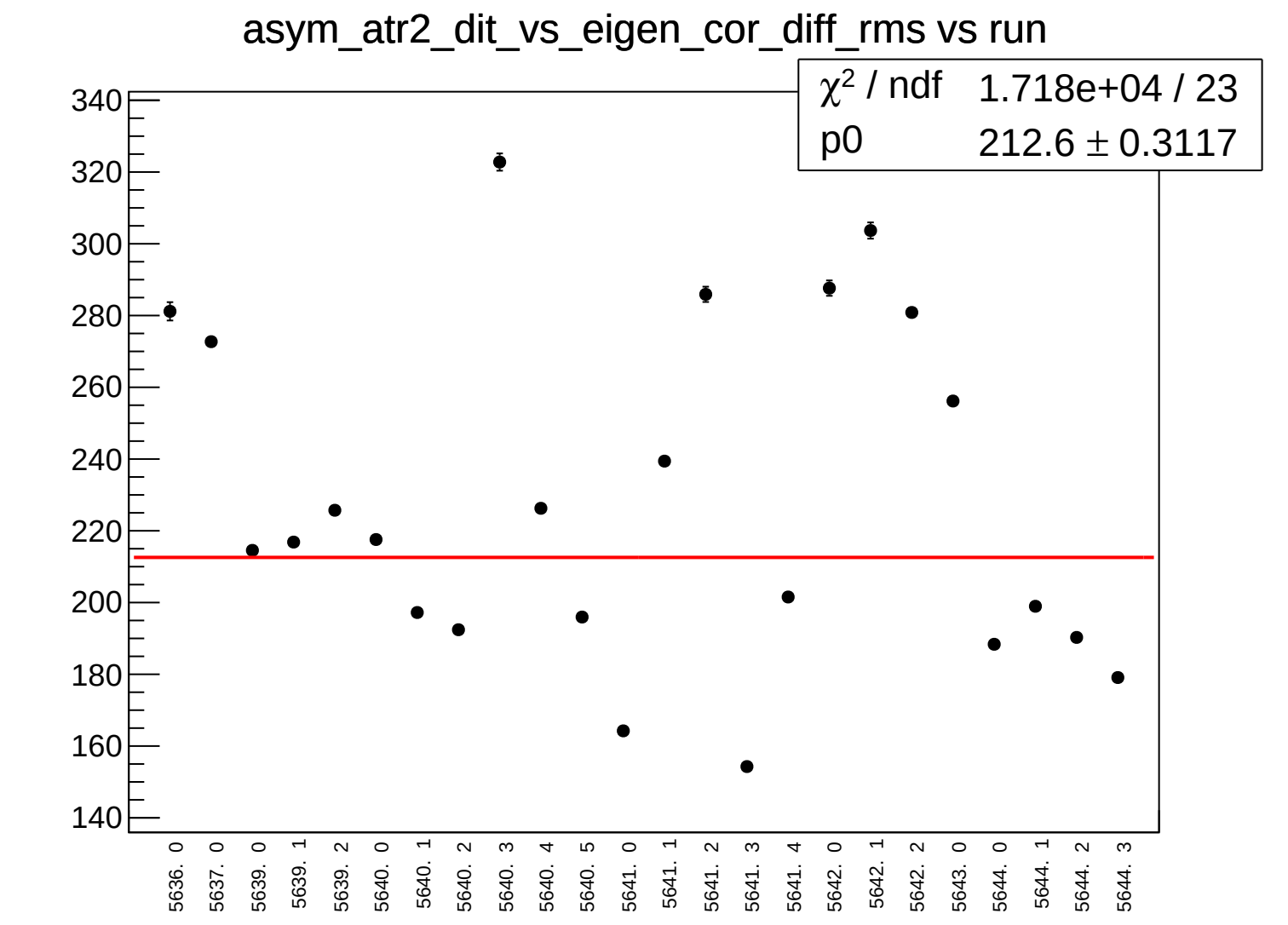

pull1D
Entries 24
Mean 0.03675
Std Dev 1.125
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

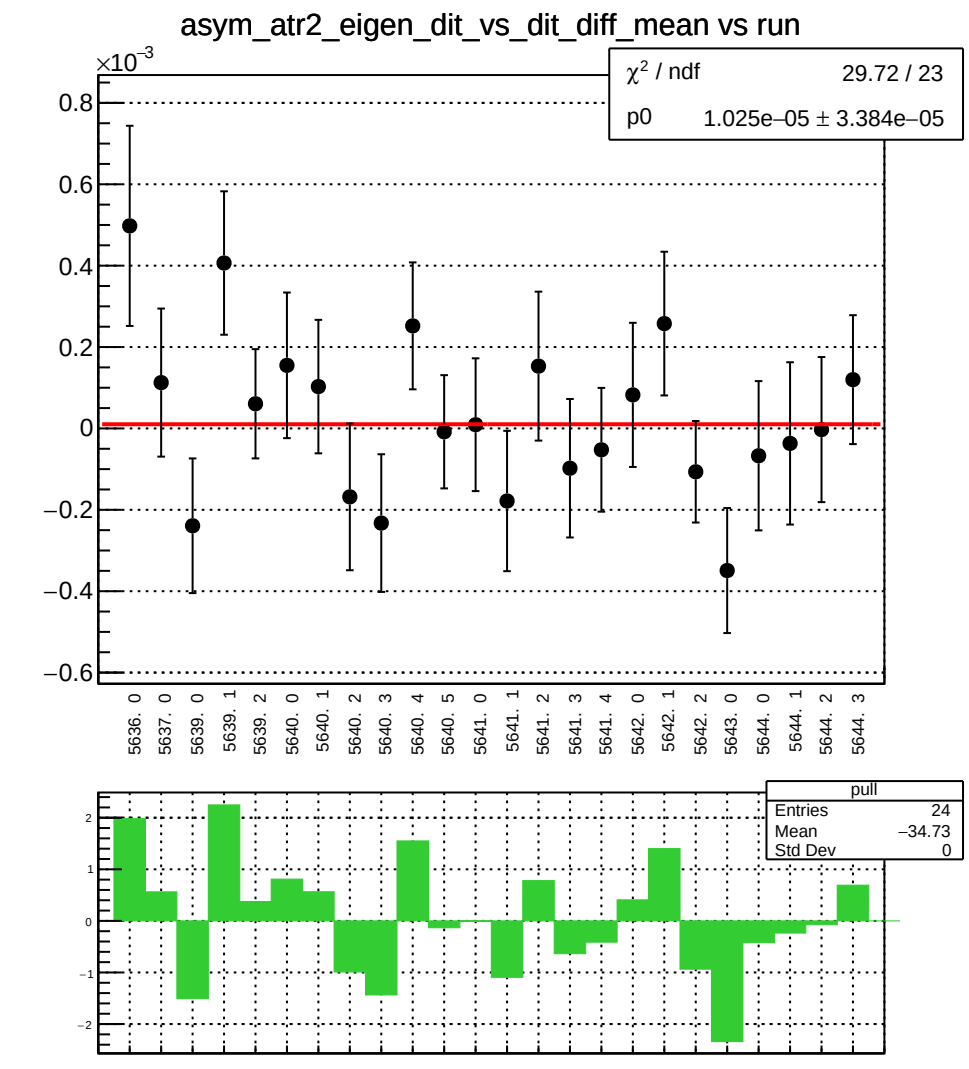

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 2.812e+05 / 23
p0 2.055e−10 ± 4.583e−13
1
0.8
0.6
0.4
0.2
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

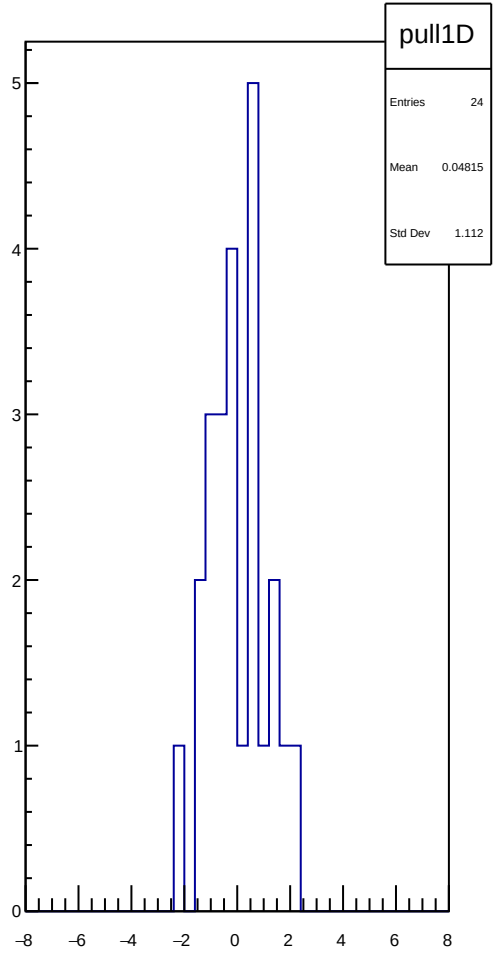

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 25.61 / 23
p0 −0.7847 ± 0.4408
8
6
4
2
0
−2
−4
−6
−8
−10
−12
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 40.41
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 24
Mean −0.01726
Std Dev 1.033
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

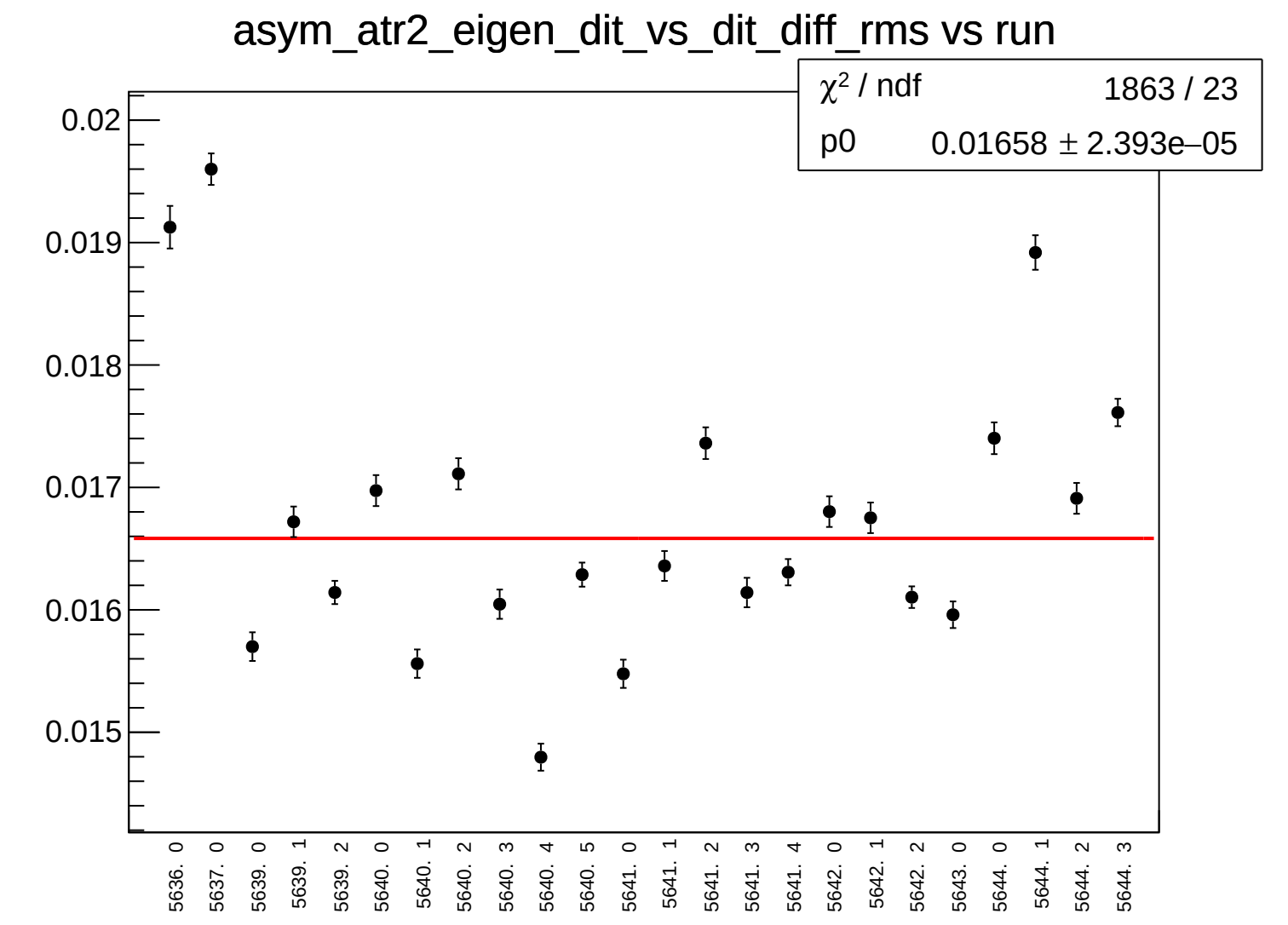

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.718e+04 / 23
p0 212.6 ± 0.3117
340
320
300
280
260
240
220
200
180
160
140
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

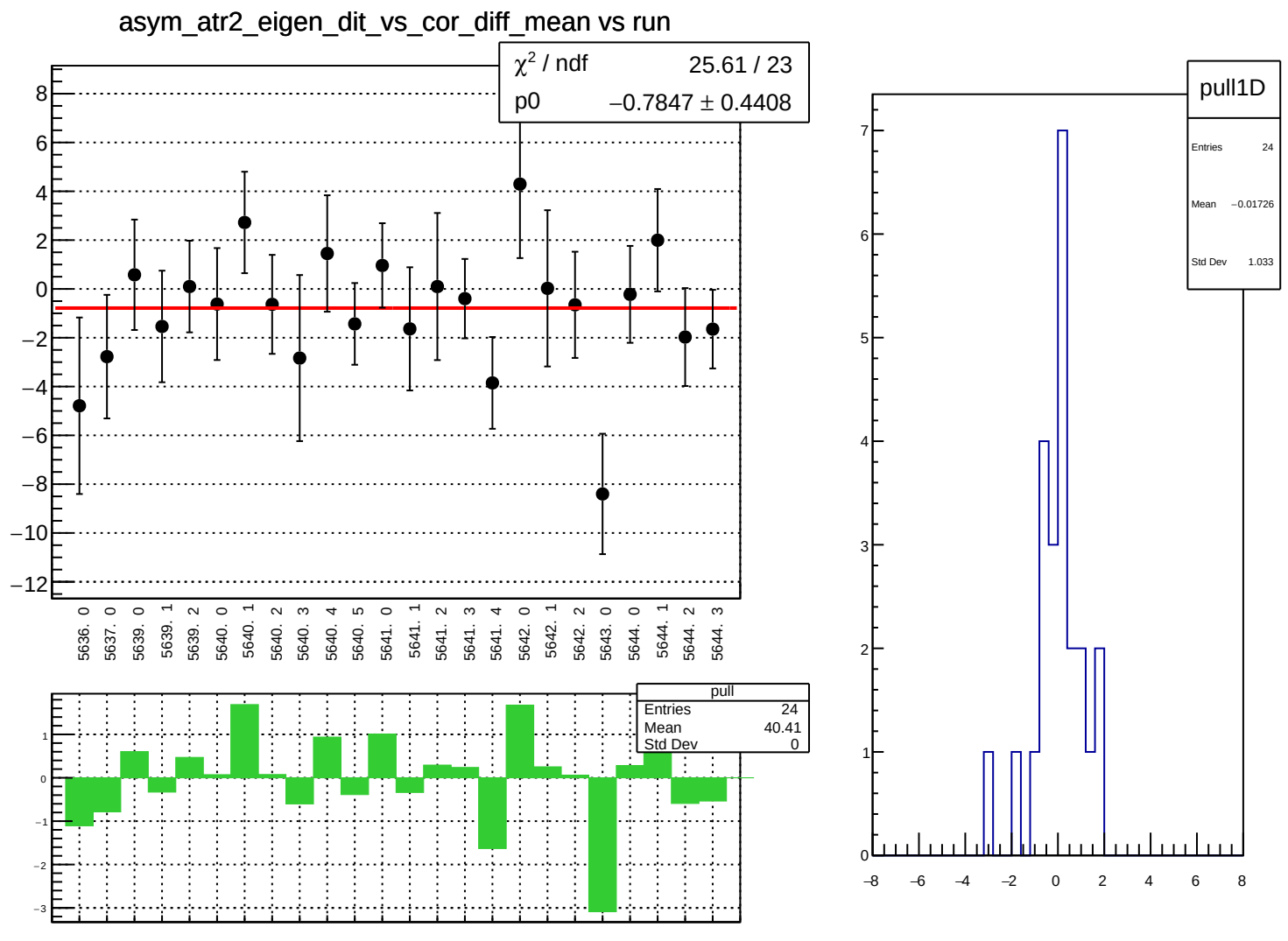

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.61 / 23
p0 −0.7847 ± 0.4408
8
6
4
2
0
−2
−4
−6
−8
−10
−12
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 40.41
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 24
Mean −0.01726
Std Dev 1.033
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

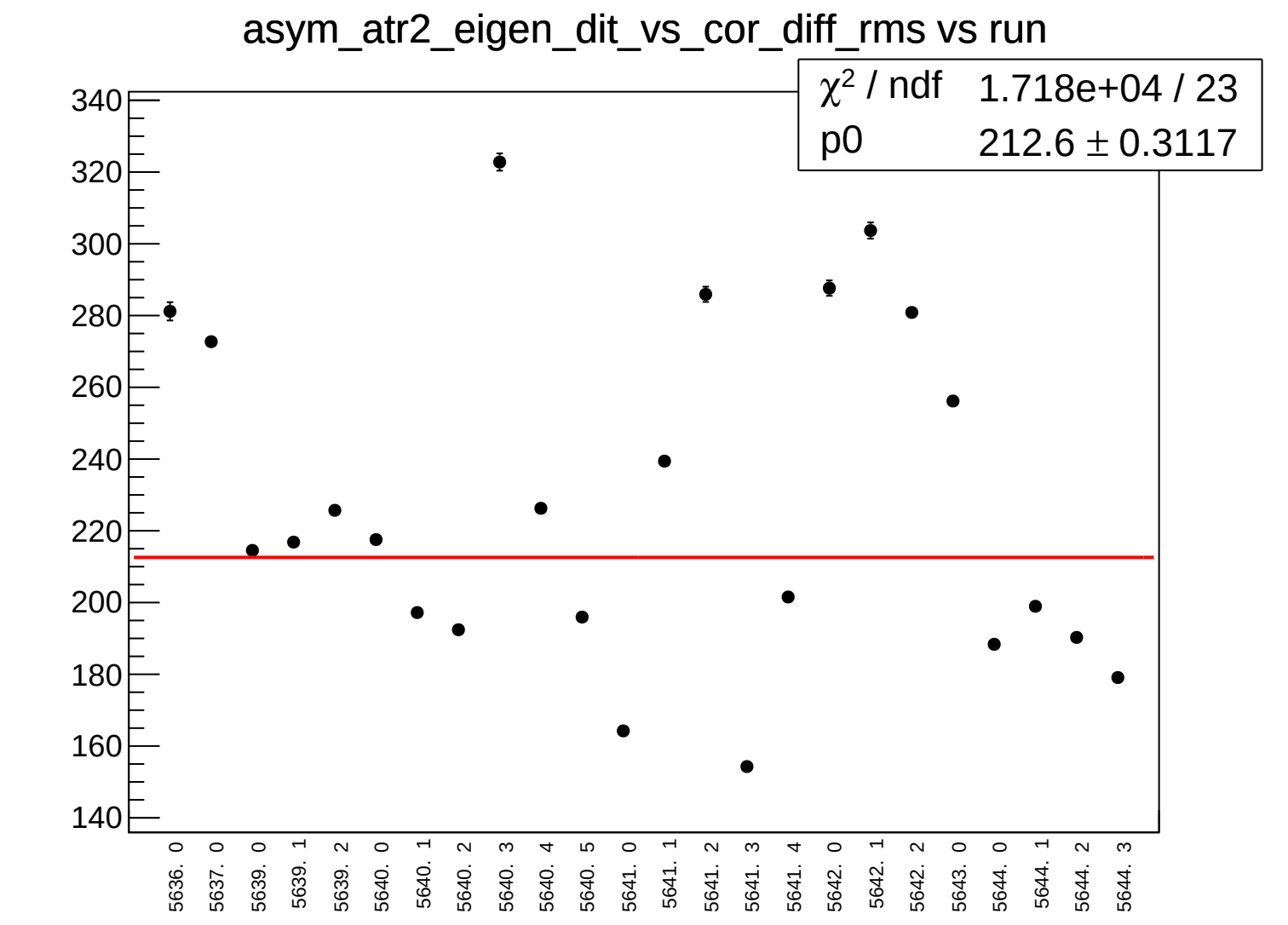

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.718e+04 / 23
p0 212.6 ± 0.3117
340
320
300
280
260
240
220
200
180
160
140
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

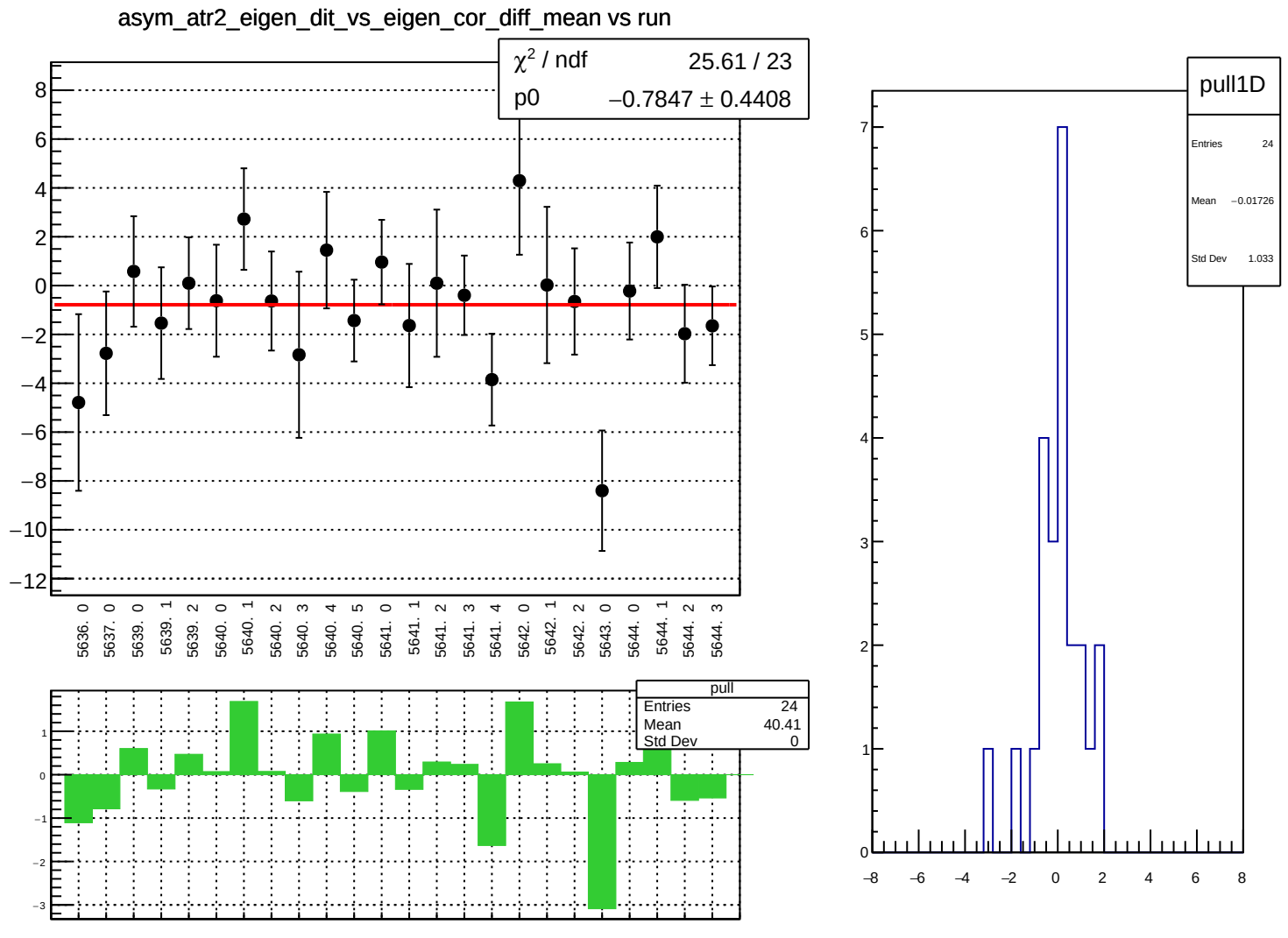

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 29.72 / 23
p0 1.025e−05 ± 3.384e−05
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −34.73
Std Dev 0
2
1
0
−1
−2

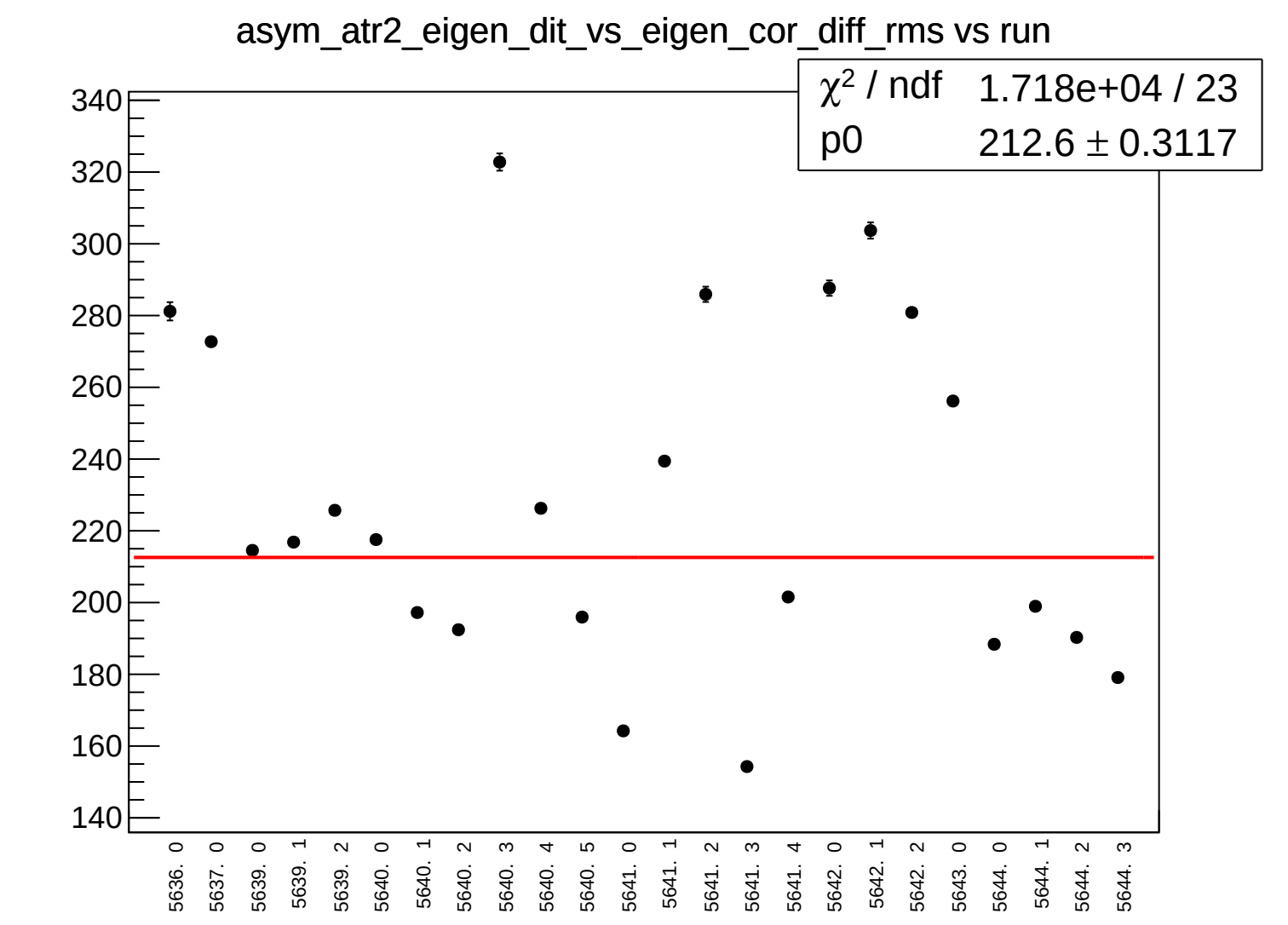

pull1D
Entries 24
Mean 0.04815
Std Dev 1.112
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

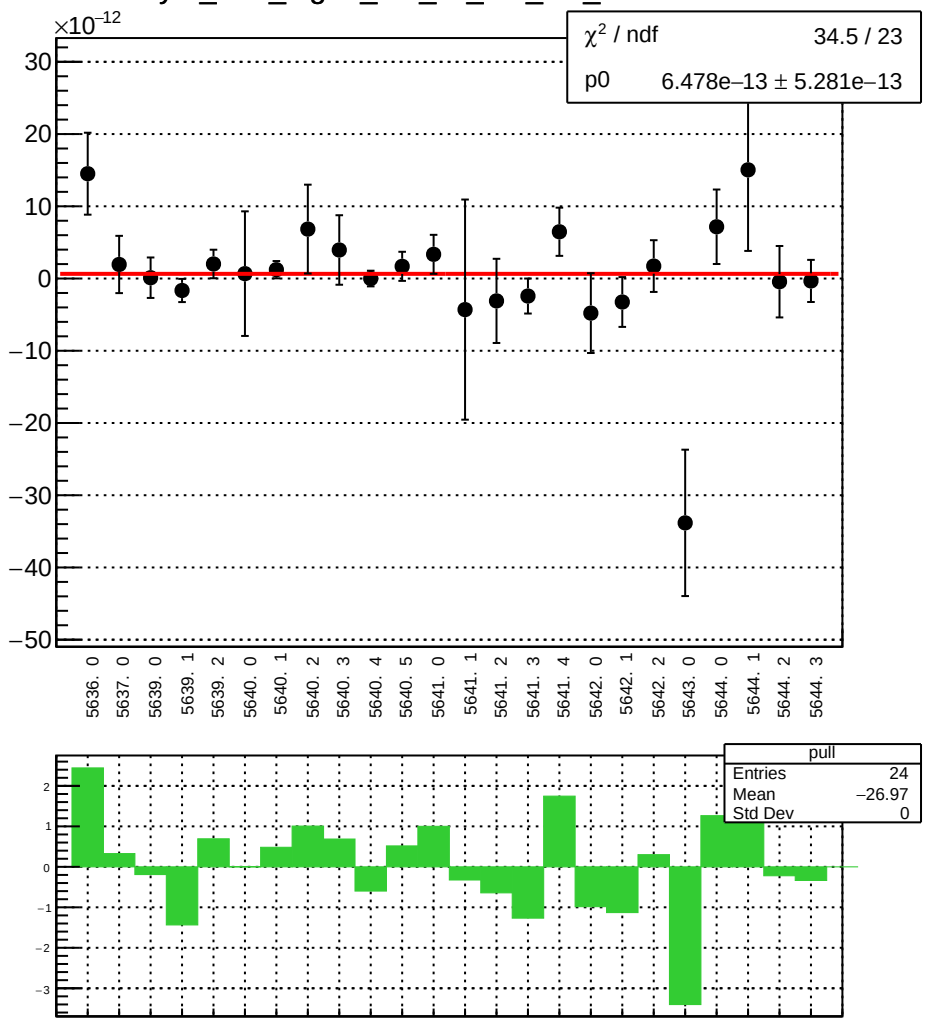

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1863 / 23
p0 0.01658 ± 2.393e–05
0.02
0.019
0.018
0.017
0.016
0.015
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

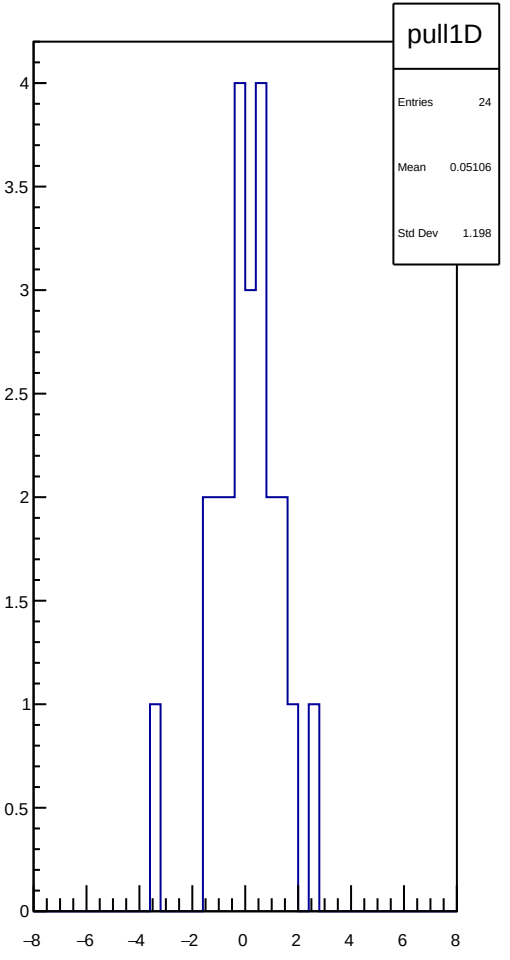

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 25.61 / 23
p0 −0.7847 ± 0.4408
8
6
4
2
0
−2
−4
−6
−8
−10
−12
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 40.41
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 24
Mean −0.01726
Std Dev 1.033
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

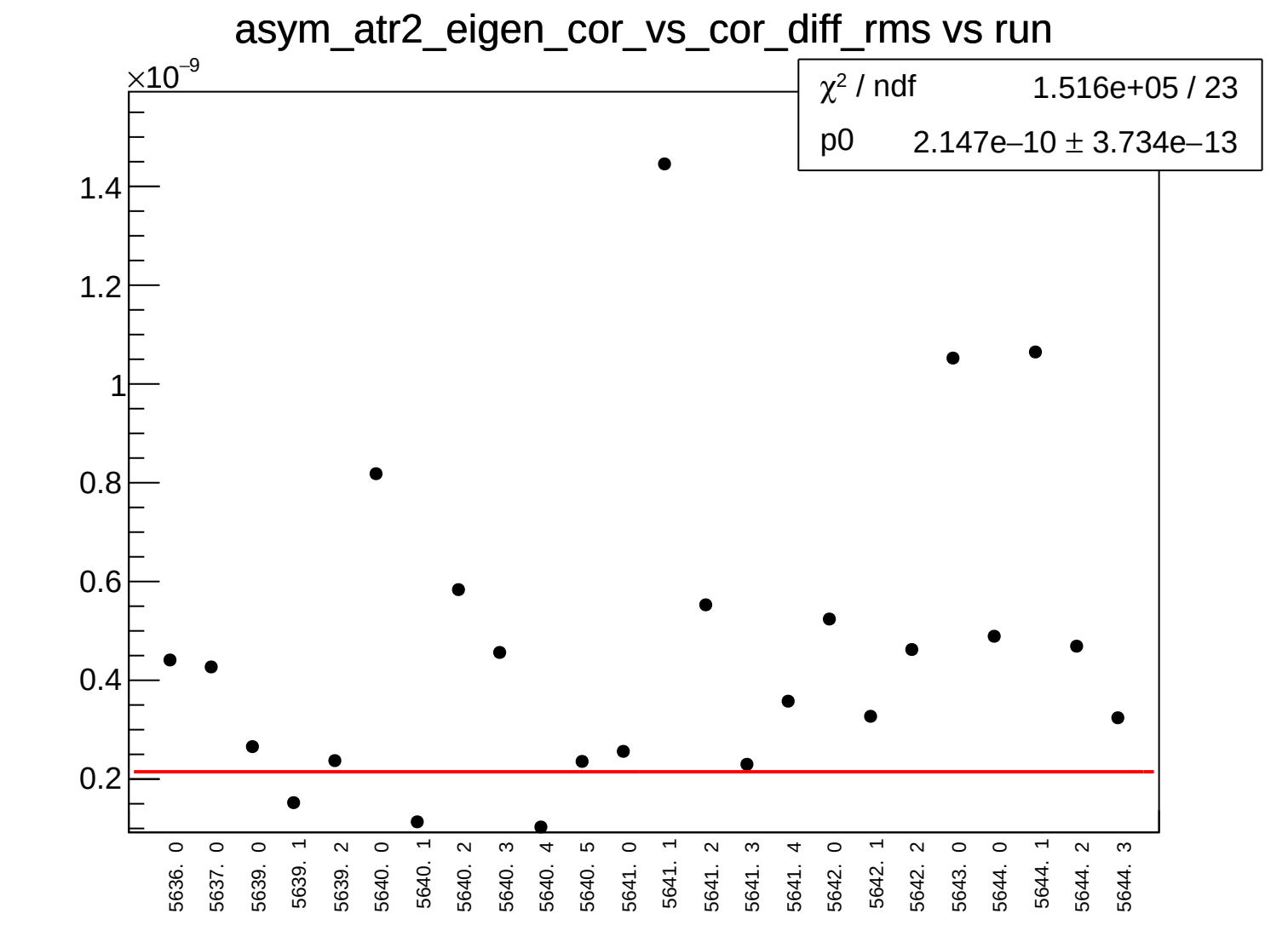

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.718e+04 / 23
p0 212.6 ± 0.3117
340
320
300
280
260
240
220
200
180
160
140
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

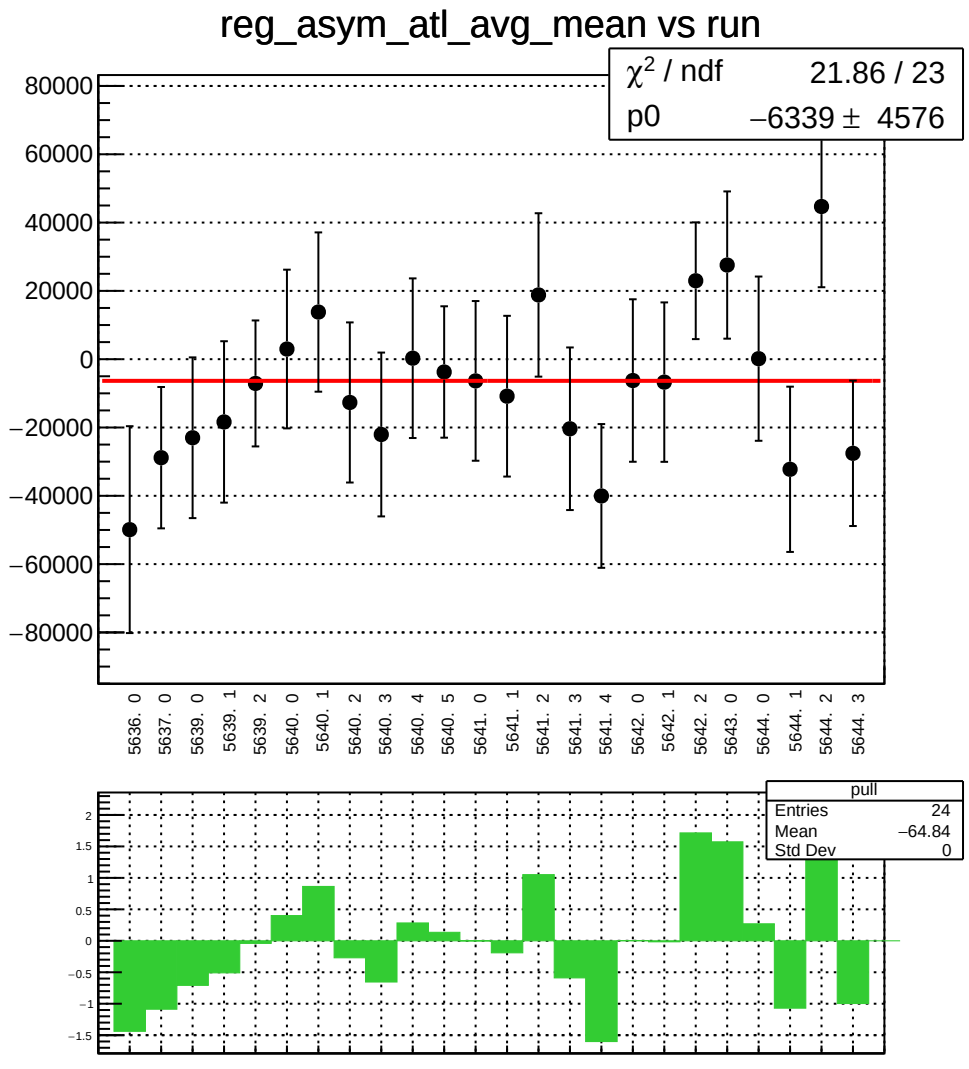

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.61 / 23
p0 −0.7847 ± 0.4408
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 40.41
Std Dev 0
pull1D
Entries 24
Mean −0.01726
Std Dev 1.033

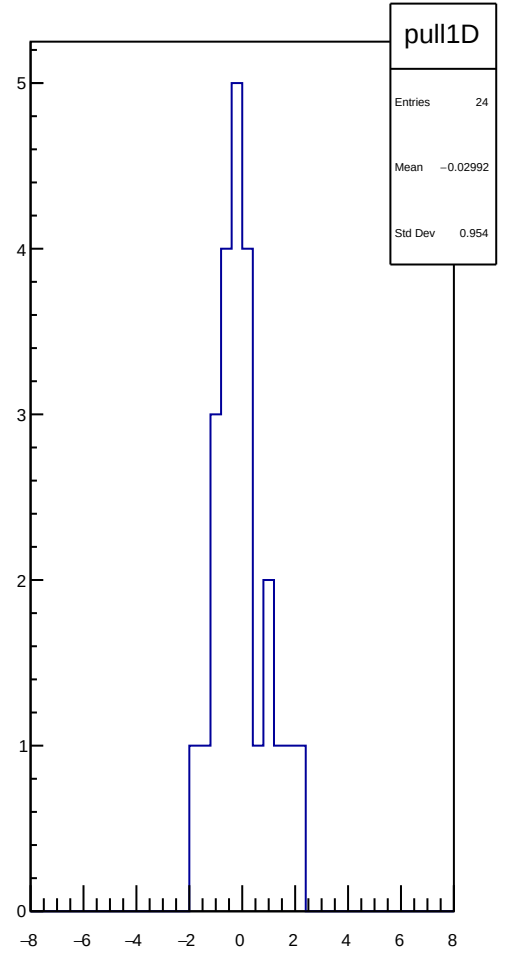

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.718e+04 / 23
p0 212.6 ± 0.3117
340
320
300
280
260
240
220
200
180
160
140
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

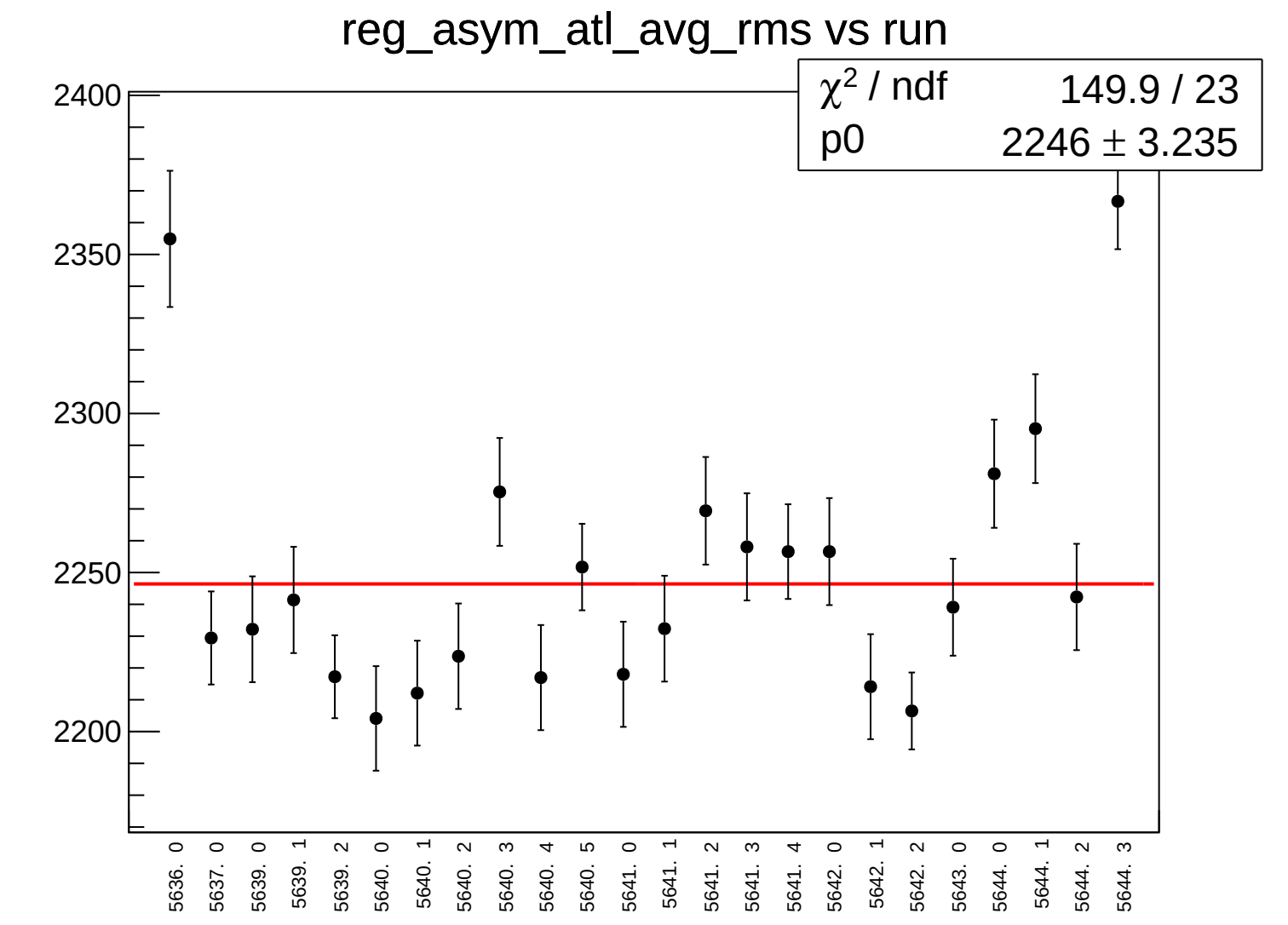

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 34.5 / 23
p0 6.478e−13 ± 5.281e−13
30
20
10
0
−10
−20
−30
−40
−50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −26.97
Std Dev 0
2
1
0
−1
−2
−3

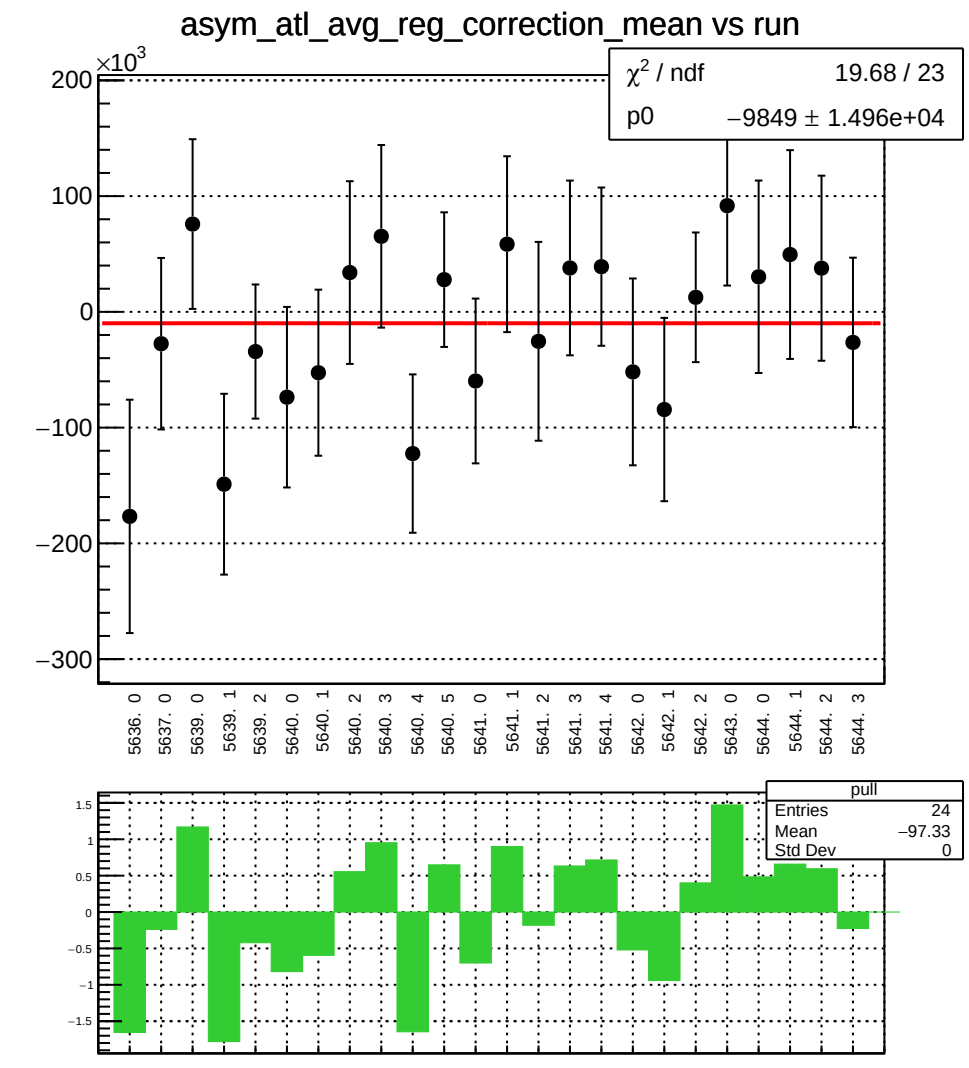

pull1D
Entries 24
Mean 0.05106
Std Dev 1.198
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

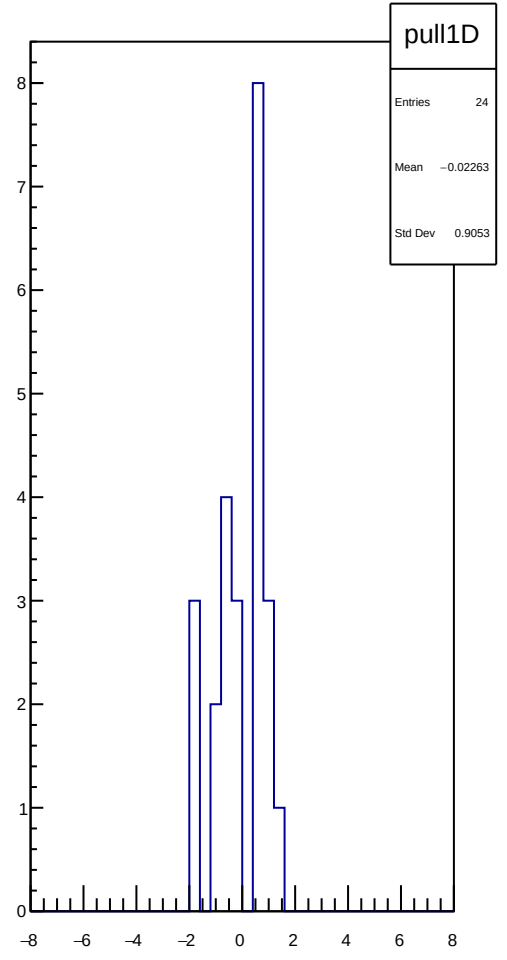

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.516e+05 / 23
p0 2.147e−10 ± 3.734e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

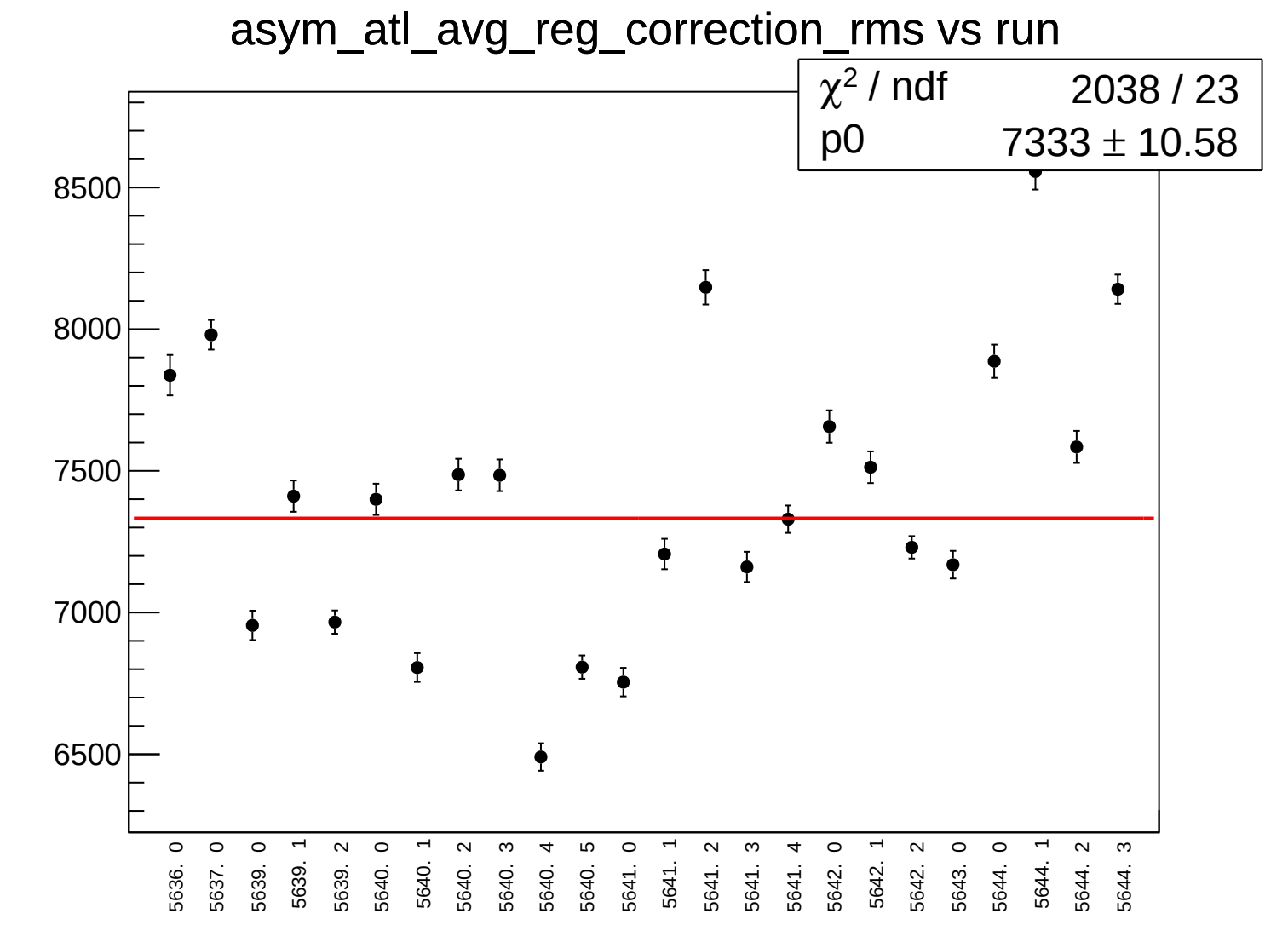

reg_asym_atl_avg_mean vs run
χ² / ndf 21.86 / 23
p0 −6339 ± 4576
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −64.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

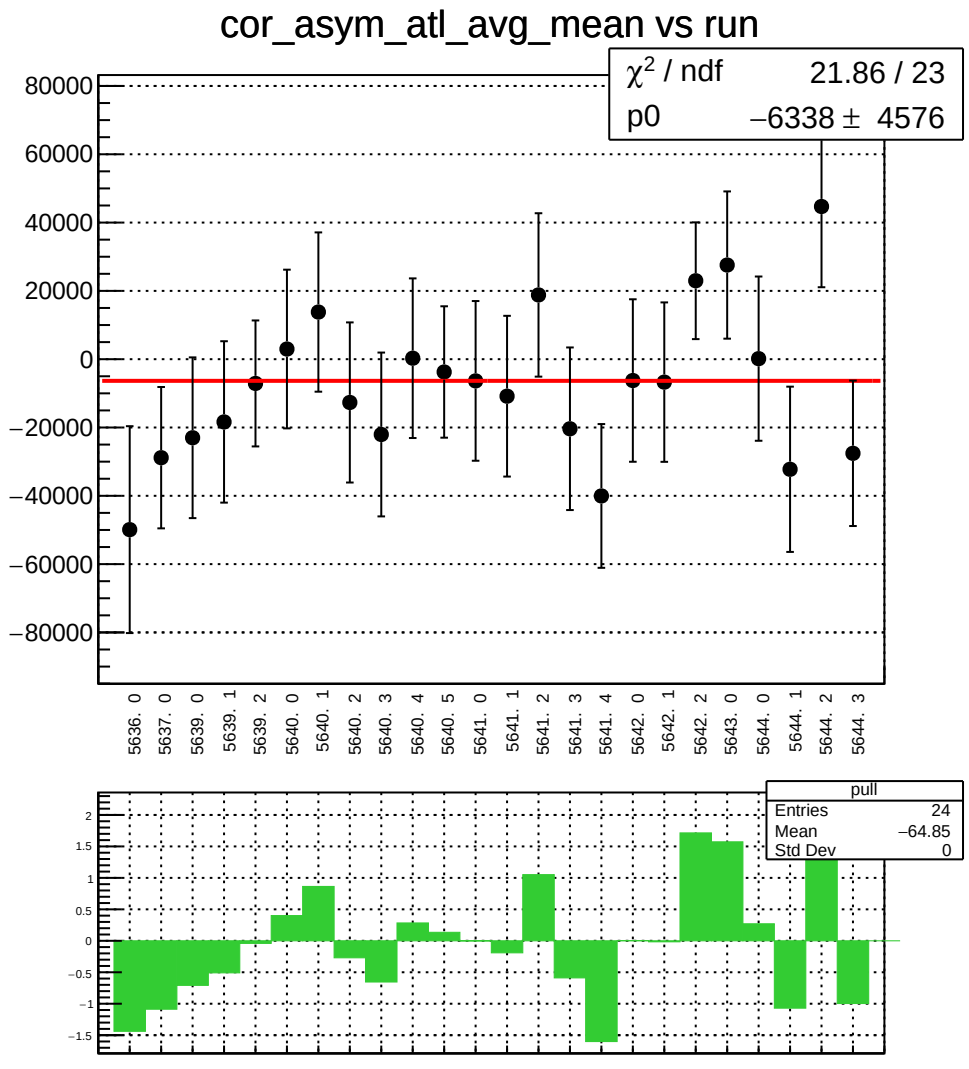

pull1D
Entries 24
Mean −0.02992
Std Dev 0.954
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

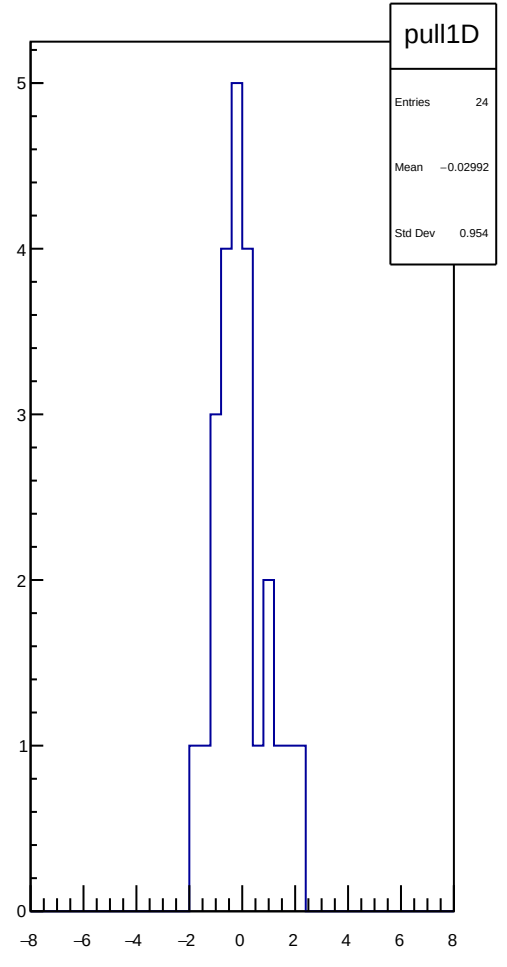

reg_asym_atl_avg_rms vs run
χ² / ndf 149.9 / 23
p0 2246 ± 3.235
2400
2350
2300
2250
2200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

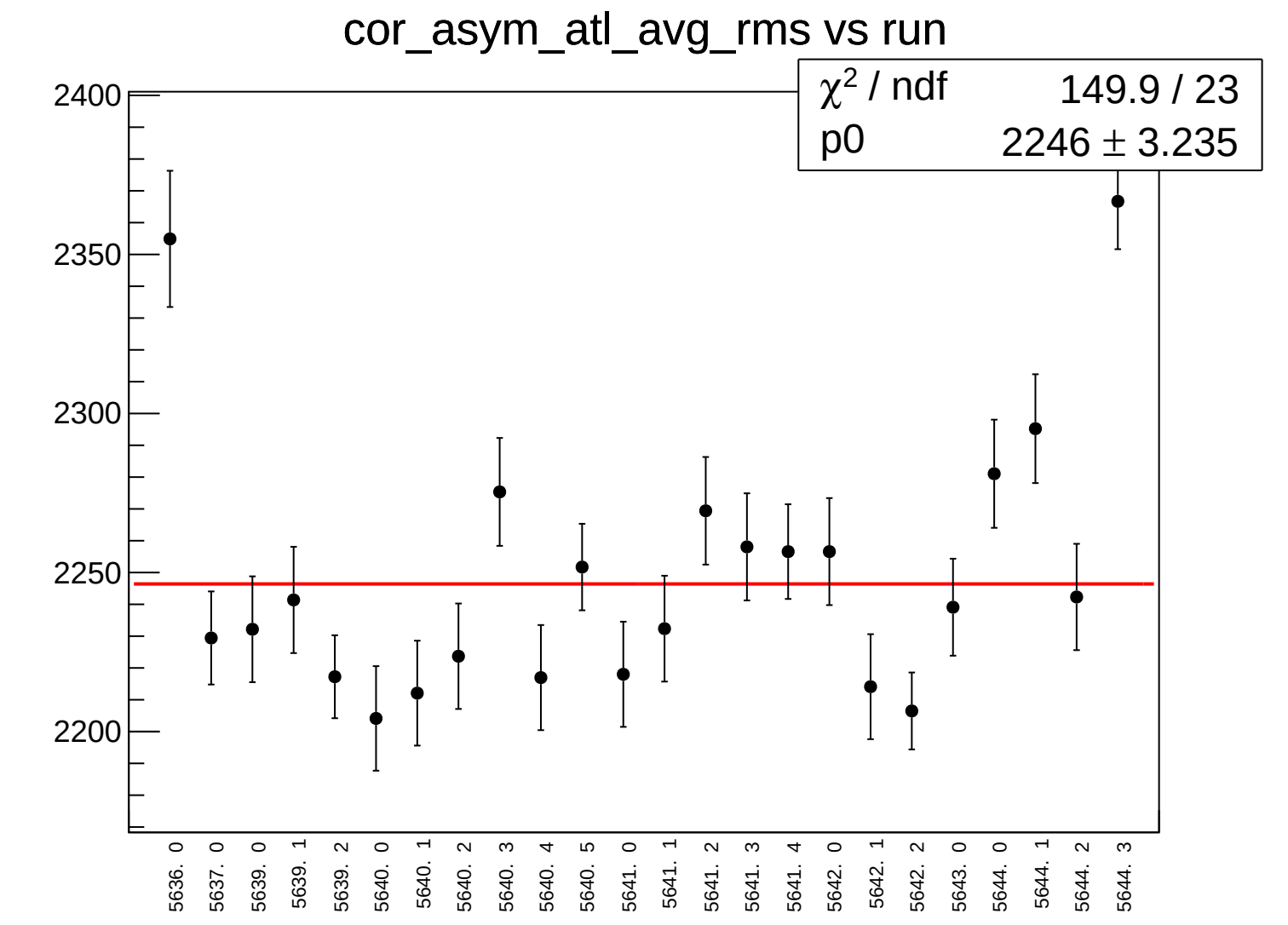

asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 19.68 / 23
p0 −9849 ± 1.496e+04
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −97.33
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

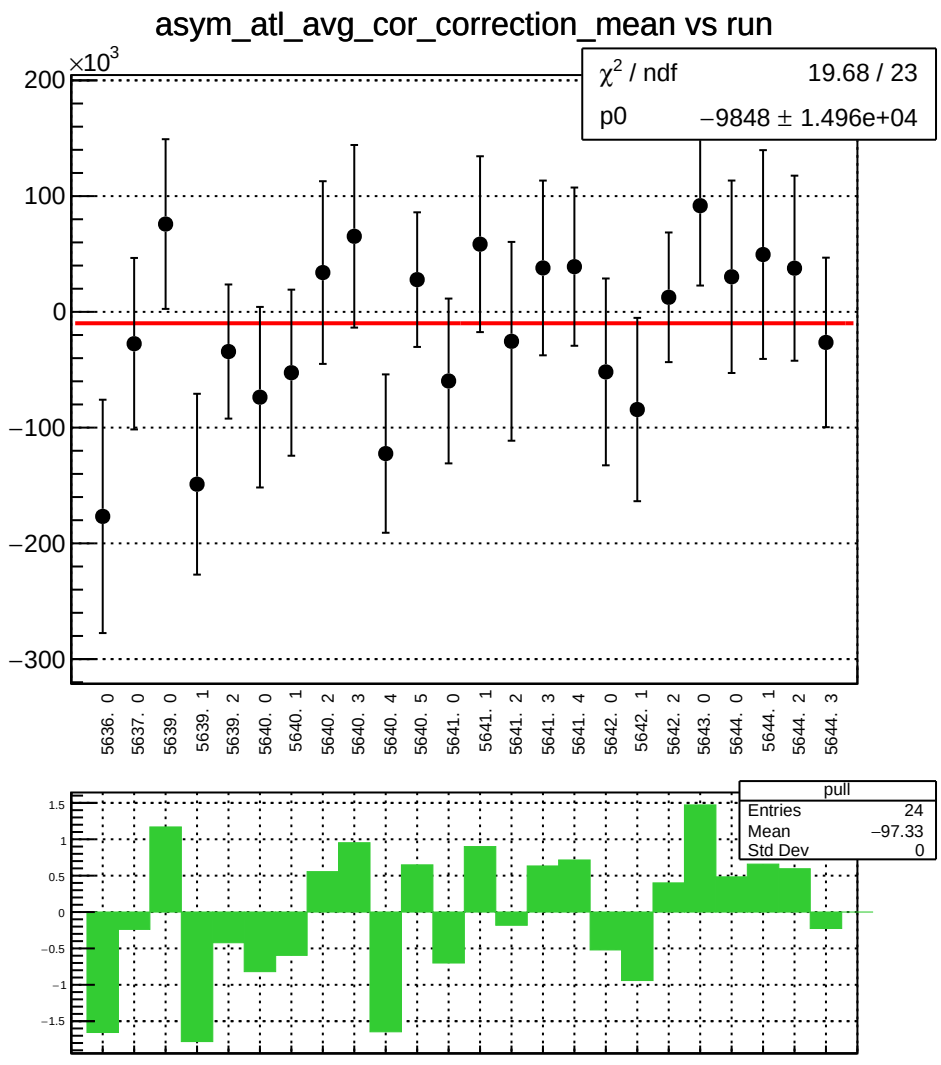

pull1D
Entries 24
Mean −0.02263
Std Dev 0.9053
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

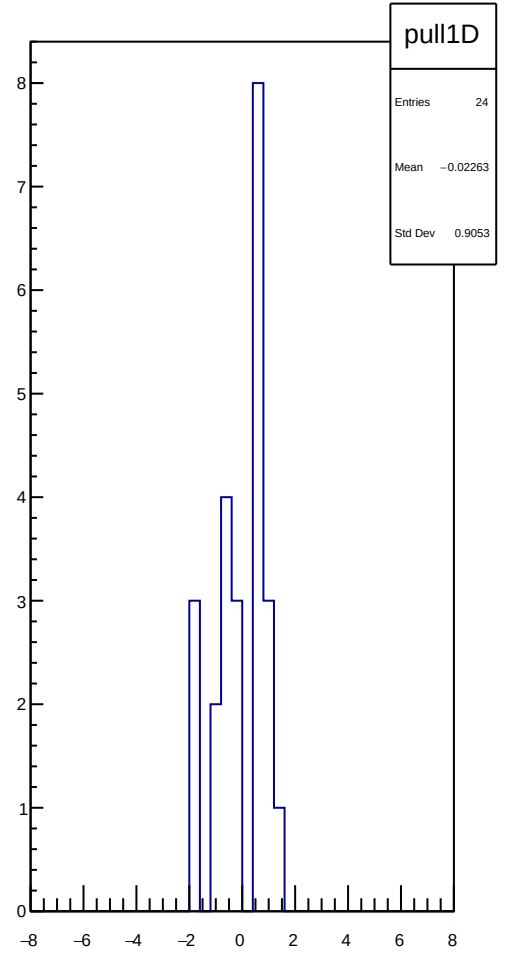

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 2038 / 23
p0 7333 ± 10.58
8500
8000
7500
7000
6500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

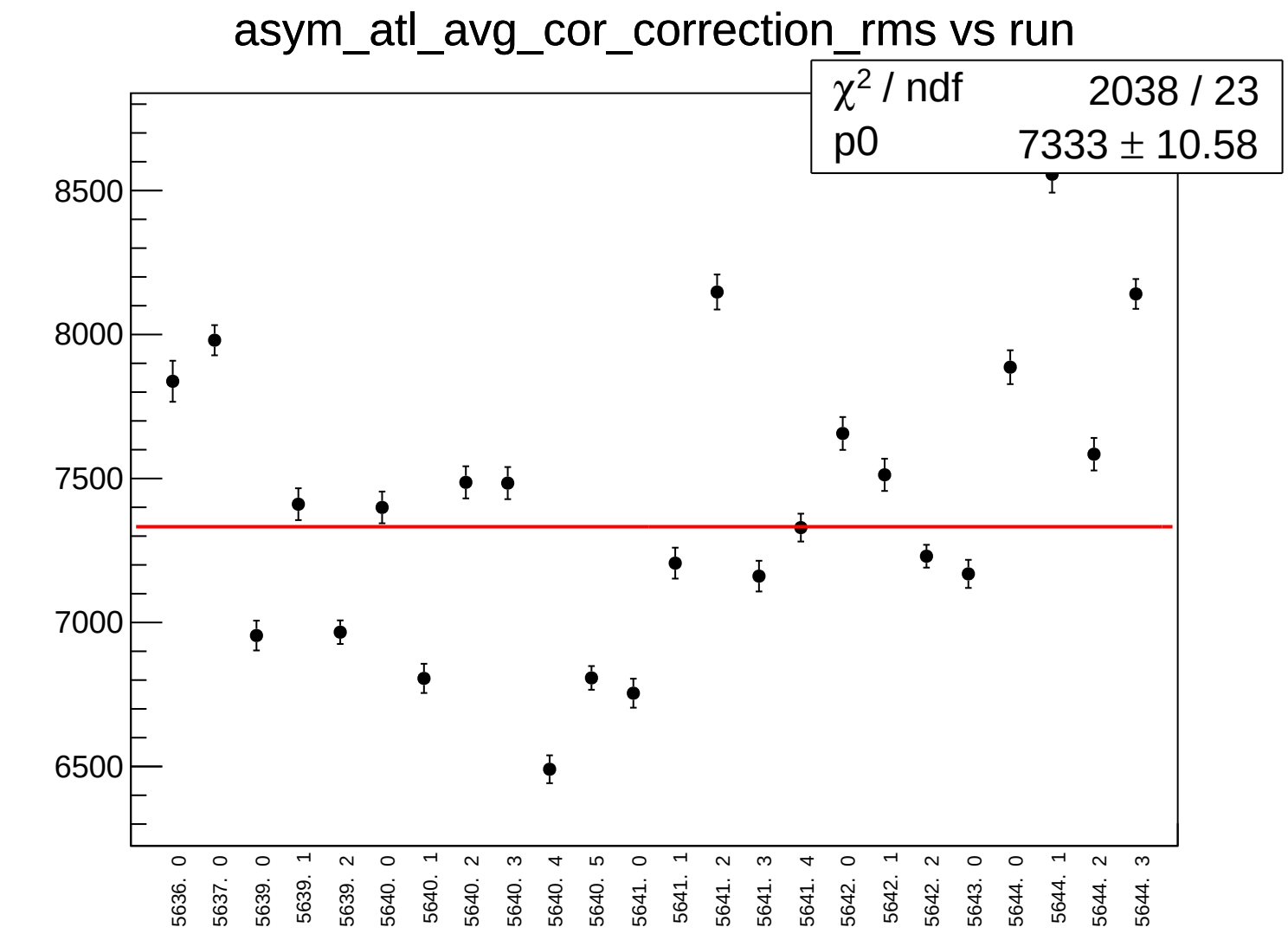

cor_asym_atl_avg_mean vs run
χ² / ndf 21.86 / 23
p0 −6338 ± 4576
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −64.85
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

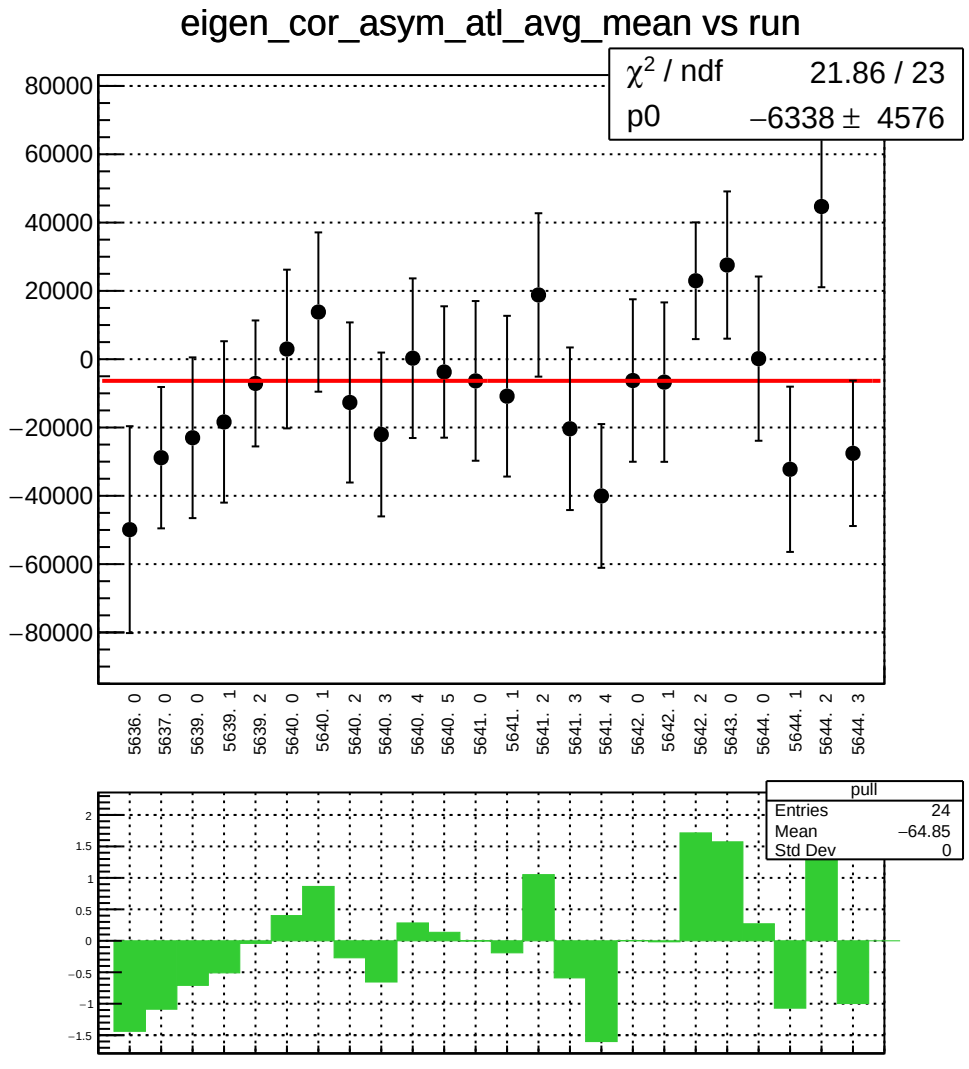

pull1D
Entries 24
Mean −0.02992
Std Dev 0.954
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

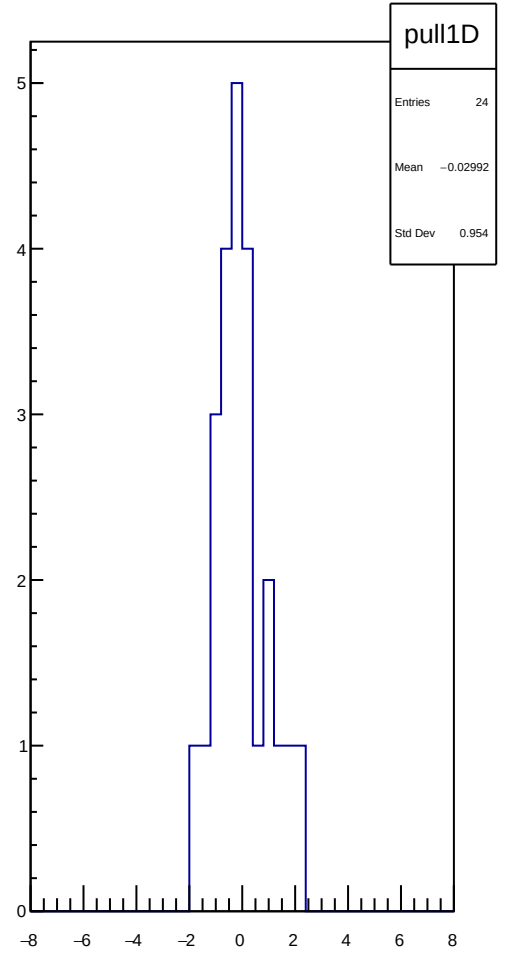

cor_asym_atl_avg_rms vs run
χ² / ndf 149.9 / 23
p0 2246 ± 3.235
2400
2350
2300
2250
2200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

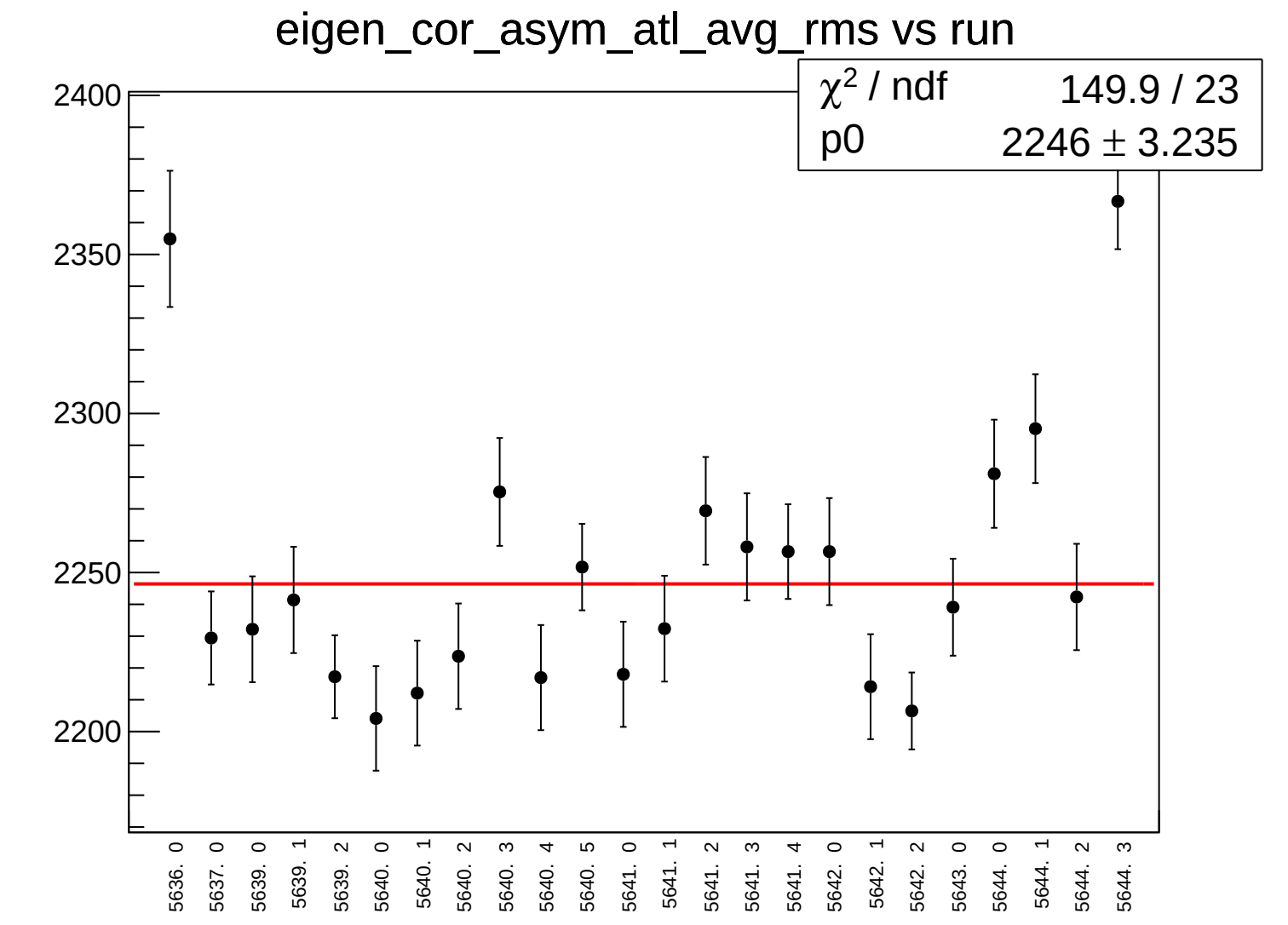

asym_atl_avg_cor_correction_mean vs run
×10^3
χ² / ndf 19.68 / 23
p0 −9848 ± 1.496e+04
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −97.33
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

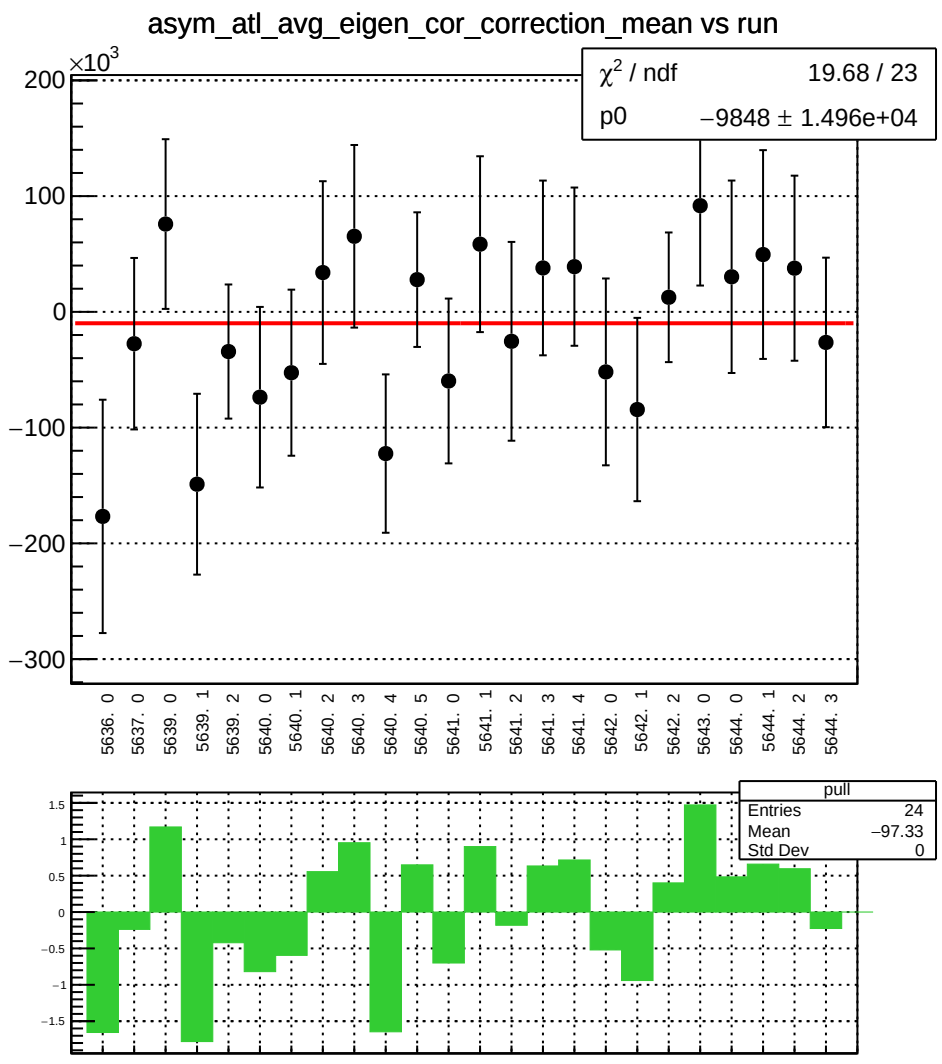

pull1D
Entries 24
Mean −0.02263
Std Dev 0.9053
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

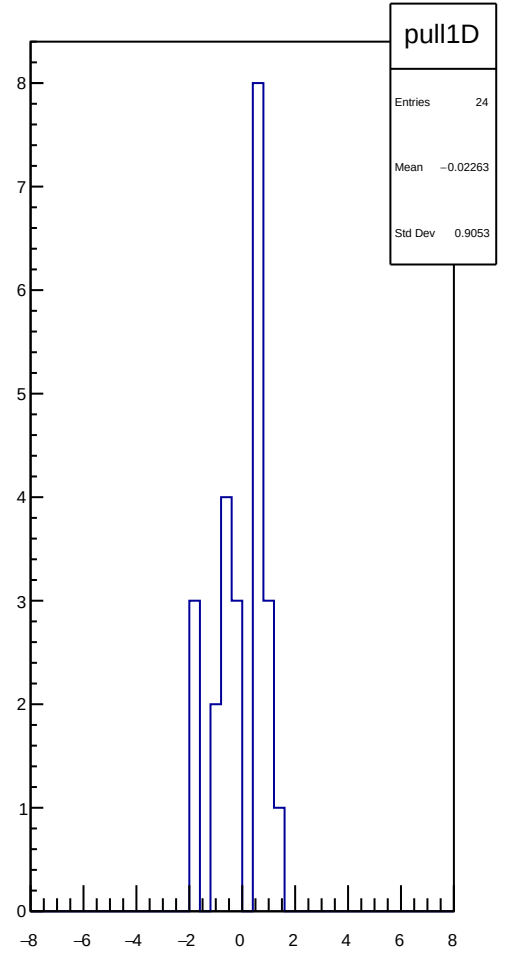

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 2038 / 23
p0 7333 ± 10.58
8500
8000
7500
7000
6500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

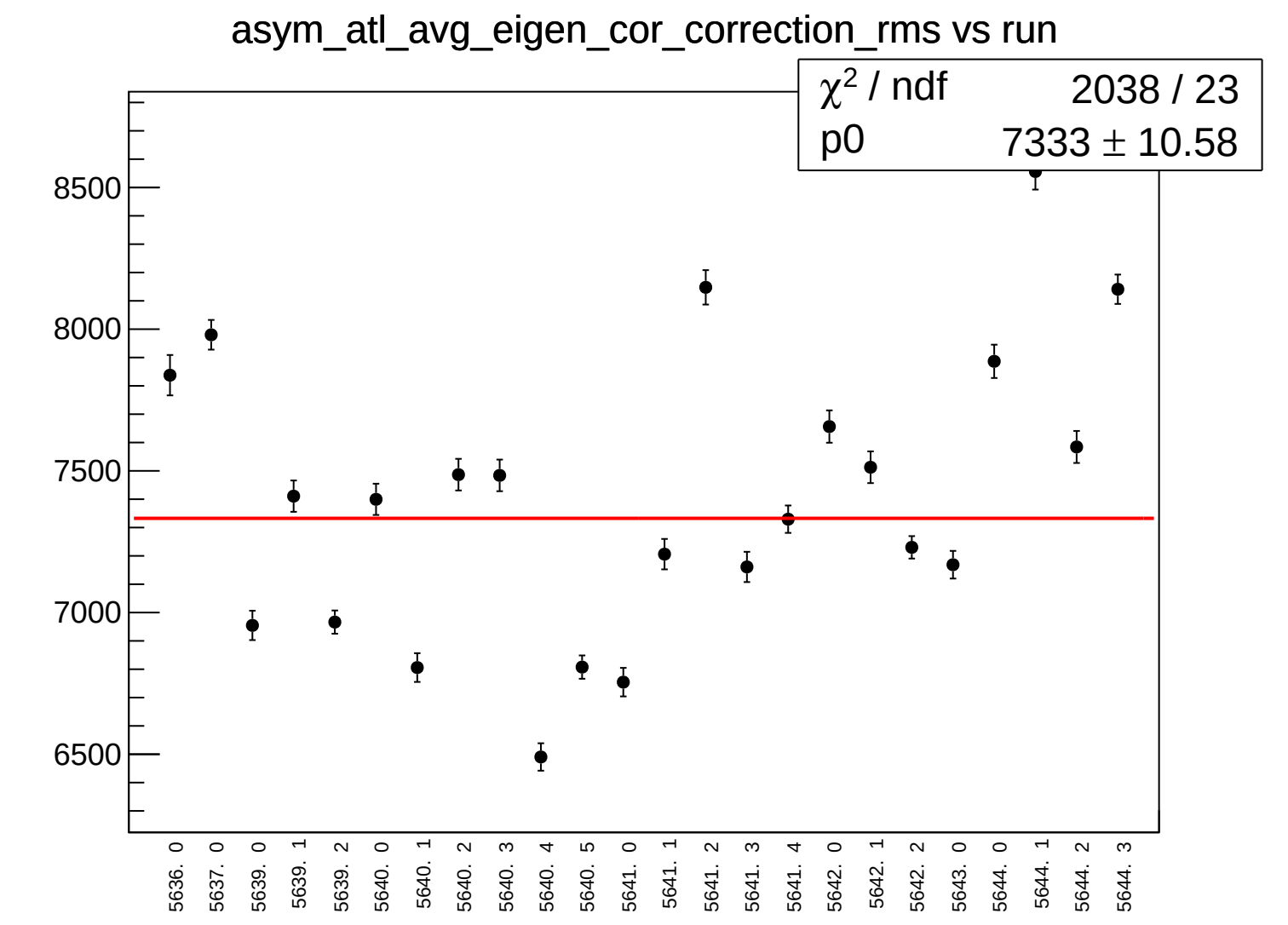

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 21.86 / 23
p0 −6338 ± 4576
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −64.85
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

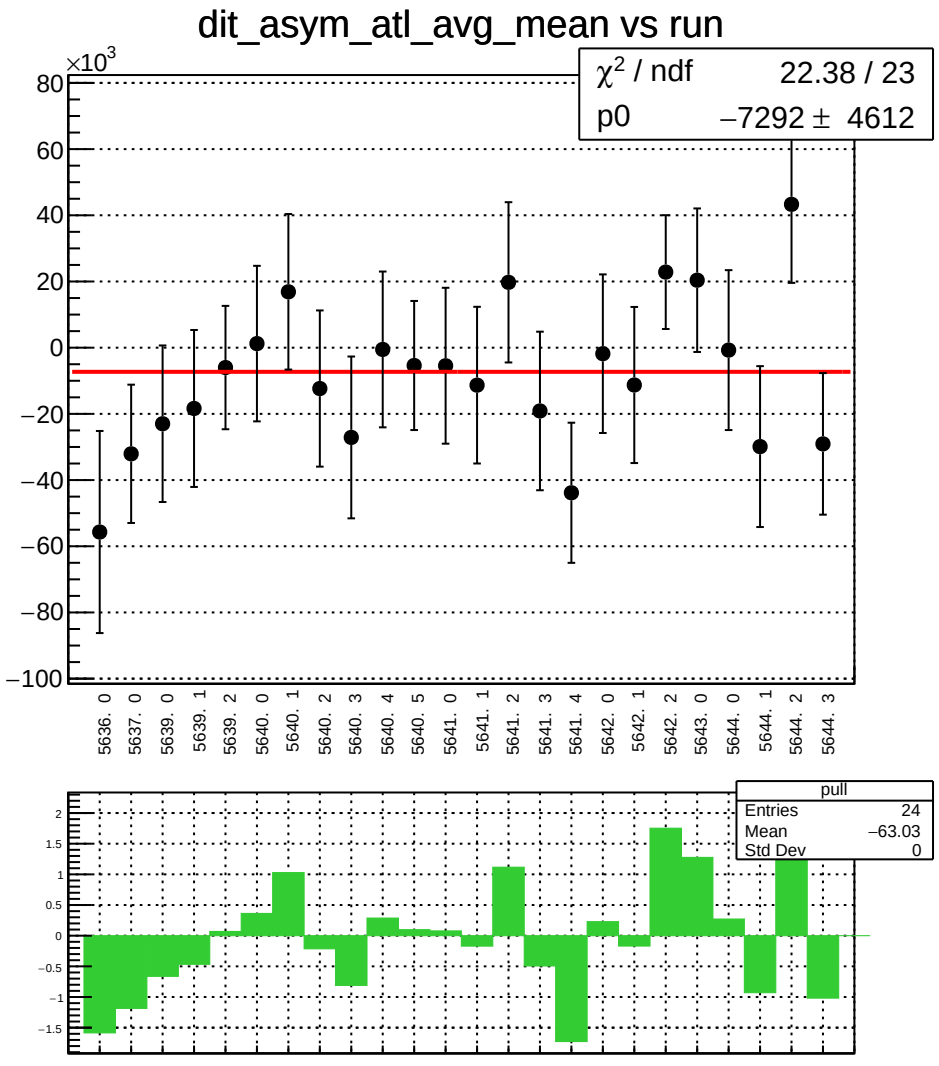

pull1D
Entries 24
Mean −0.02992
Std Dev 0.954
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

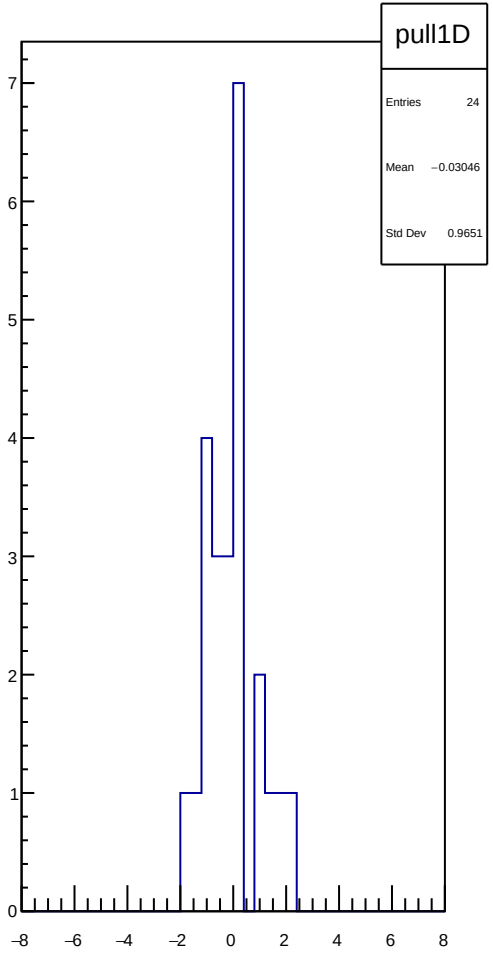

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 149.9 / 23
p0 2246 ± 3.235
2400
2350
2300
2250
2200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

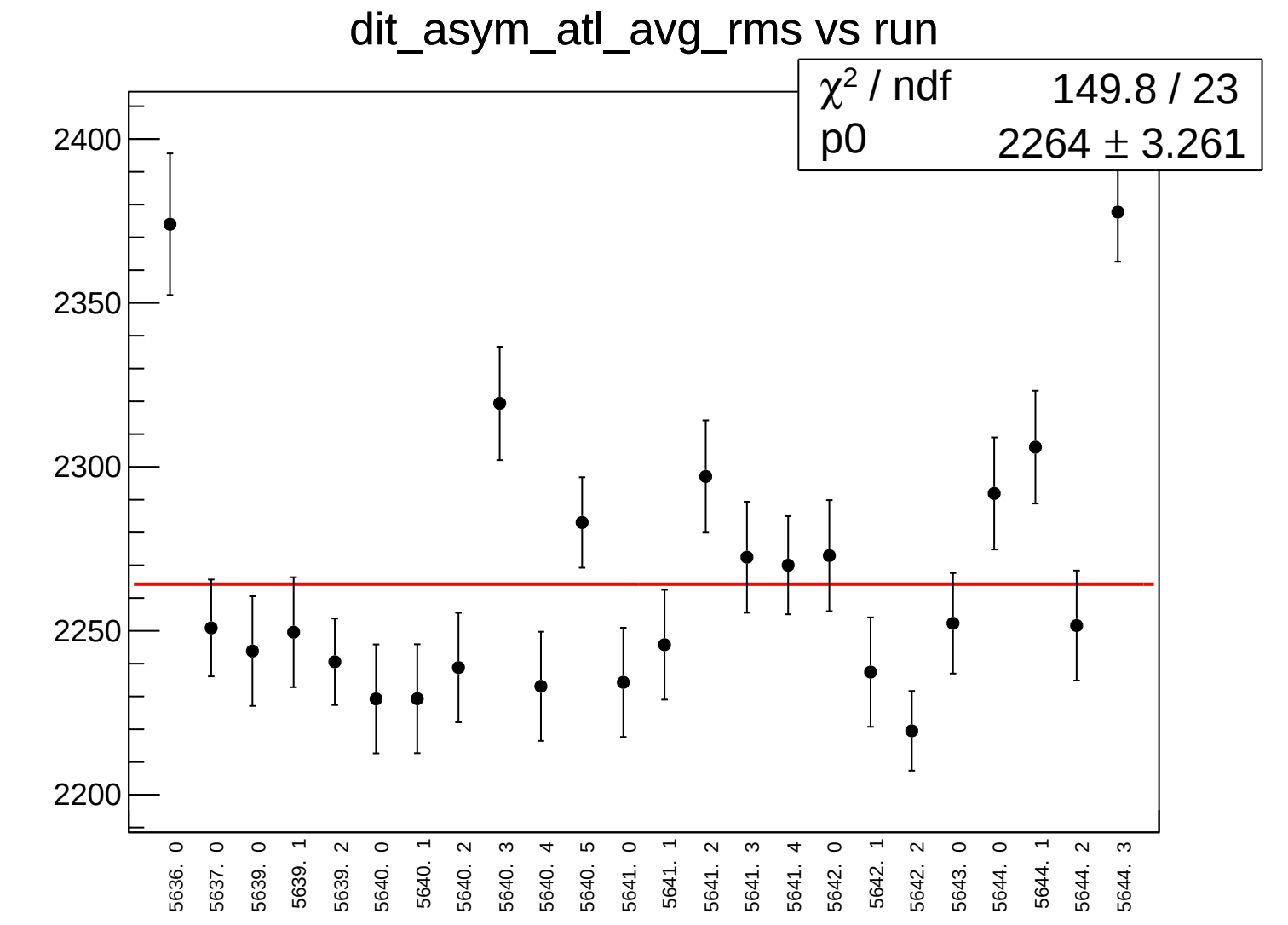

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 19.68 / 23
p0 −9848 ± 1.496e+04
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −97.33
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

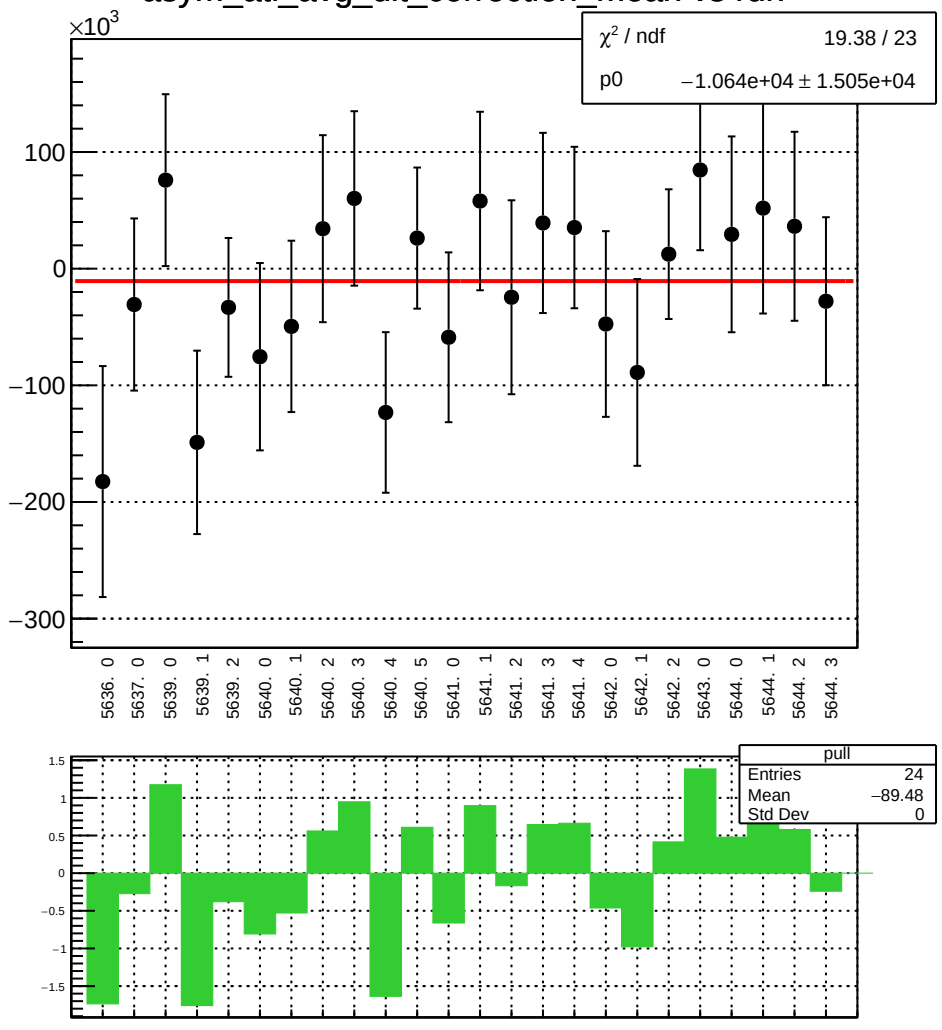

pull1D
Entries 24
Mean −0.02263
Std Dev 0.9053
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

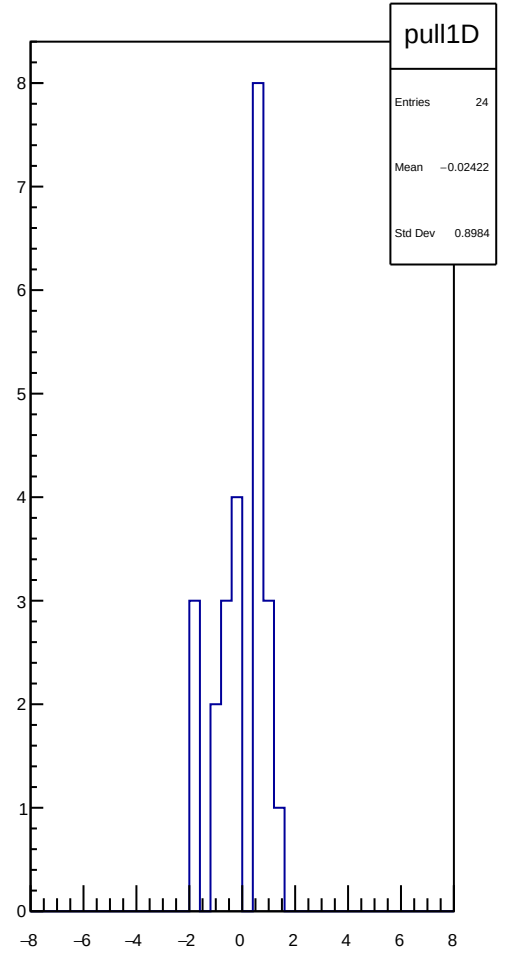

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 2038 / 23
p0 7333 ± 10.58
8500
8000
7500
7000
6500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

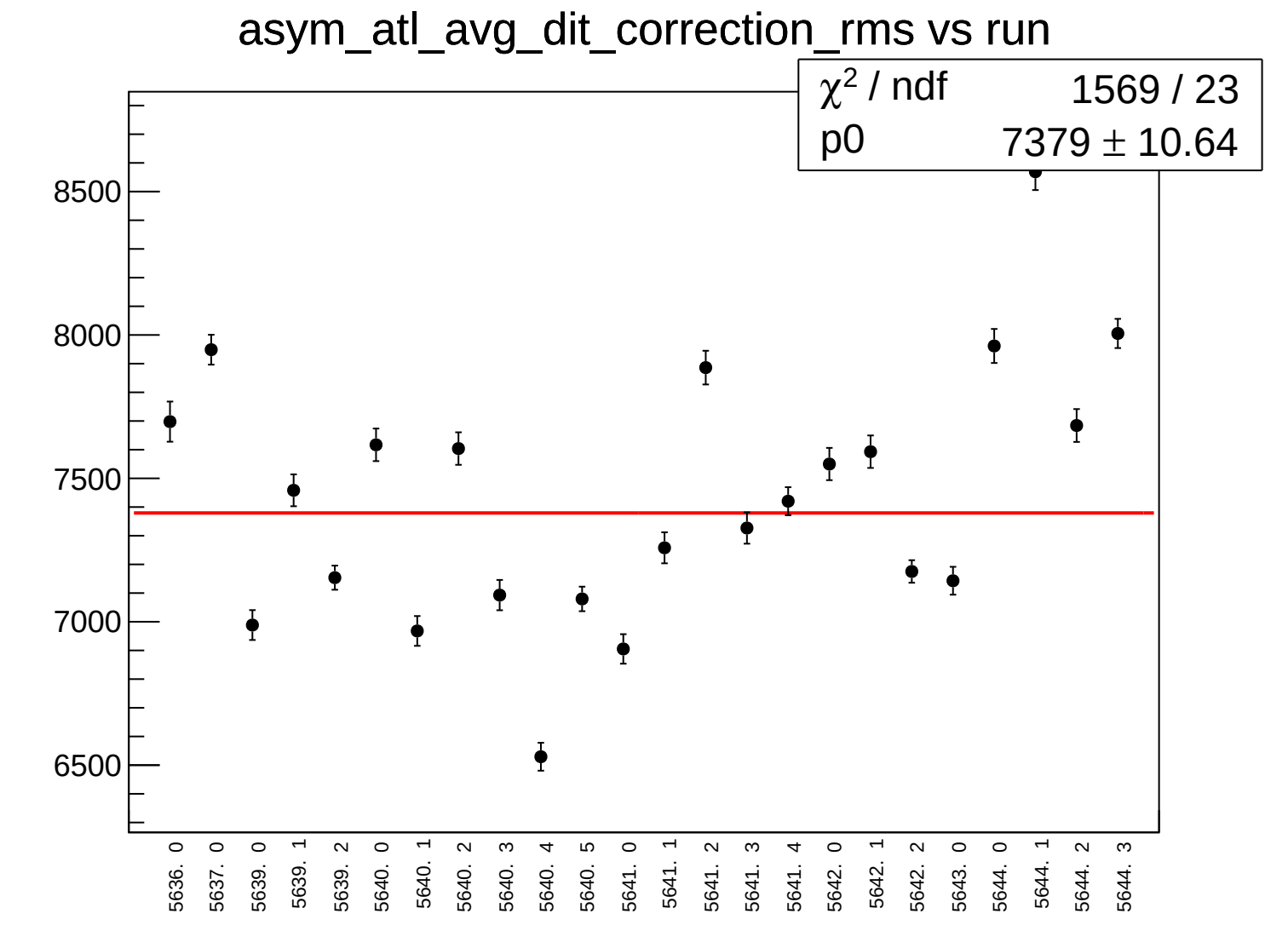

dit_asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 22.38 / 23
p0 −7292 ± 4612
80
60
40
20
0
−20
−40
−60
−80
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −63.03
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

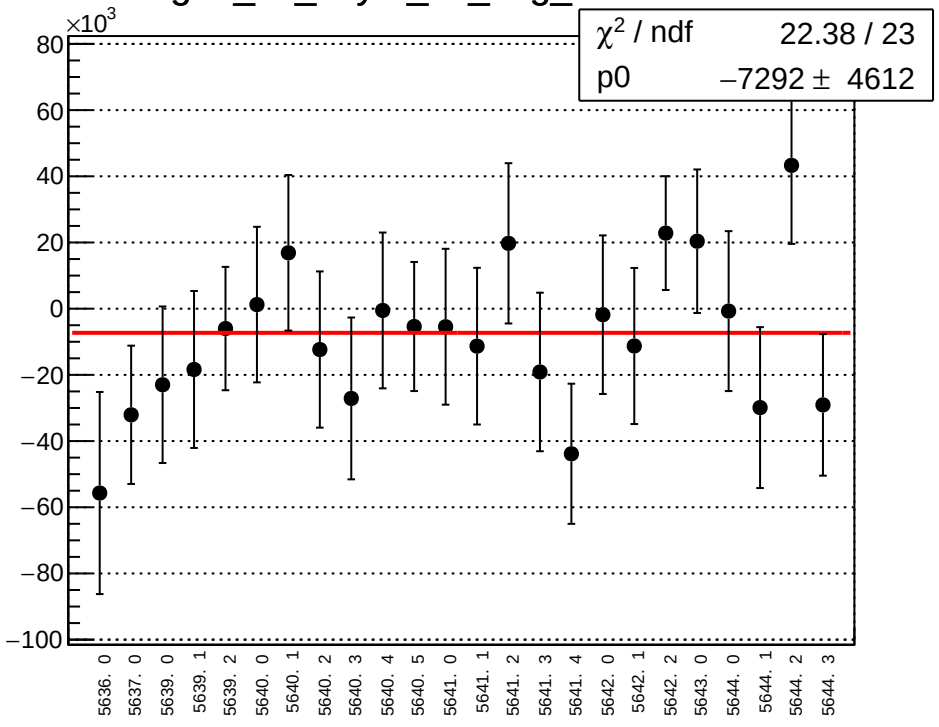

pull1D
Entries 24
Mean −0.03046
Std Dev 0.9651
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

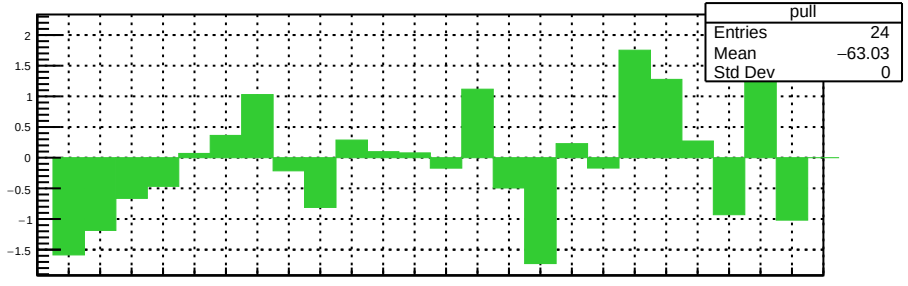

dit_asym_atl_avg_rms vs run
χ² / ndf 149.8 / 23
p0 2264 ± 3.261
2400
2350
2300
2250
2200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

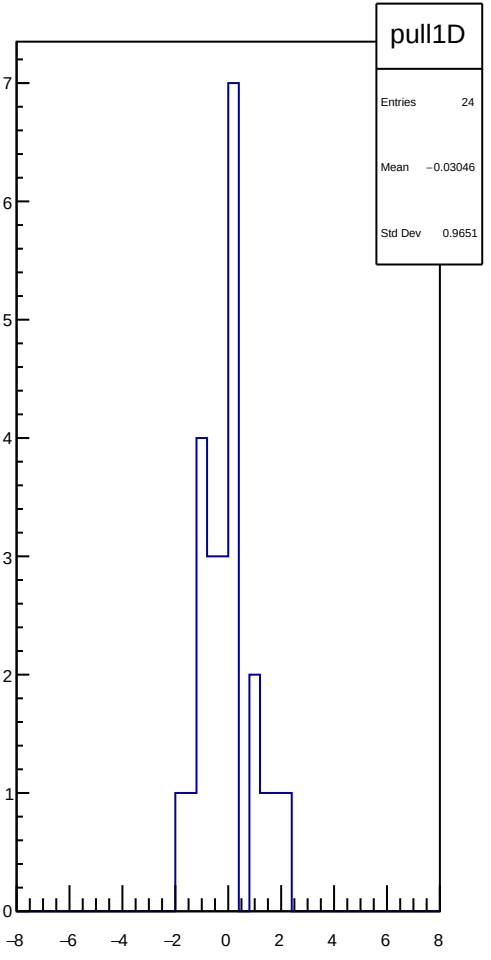

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 19.38 / 23
p0 −1.064e+04 ± 1.505e+04
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −89.48
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

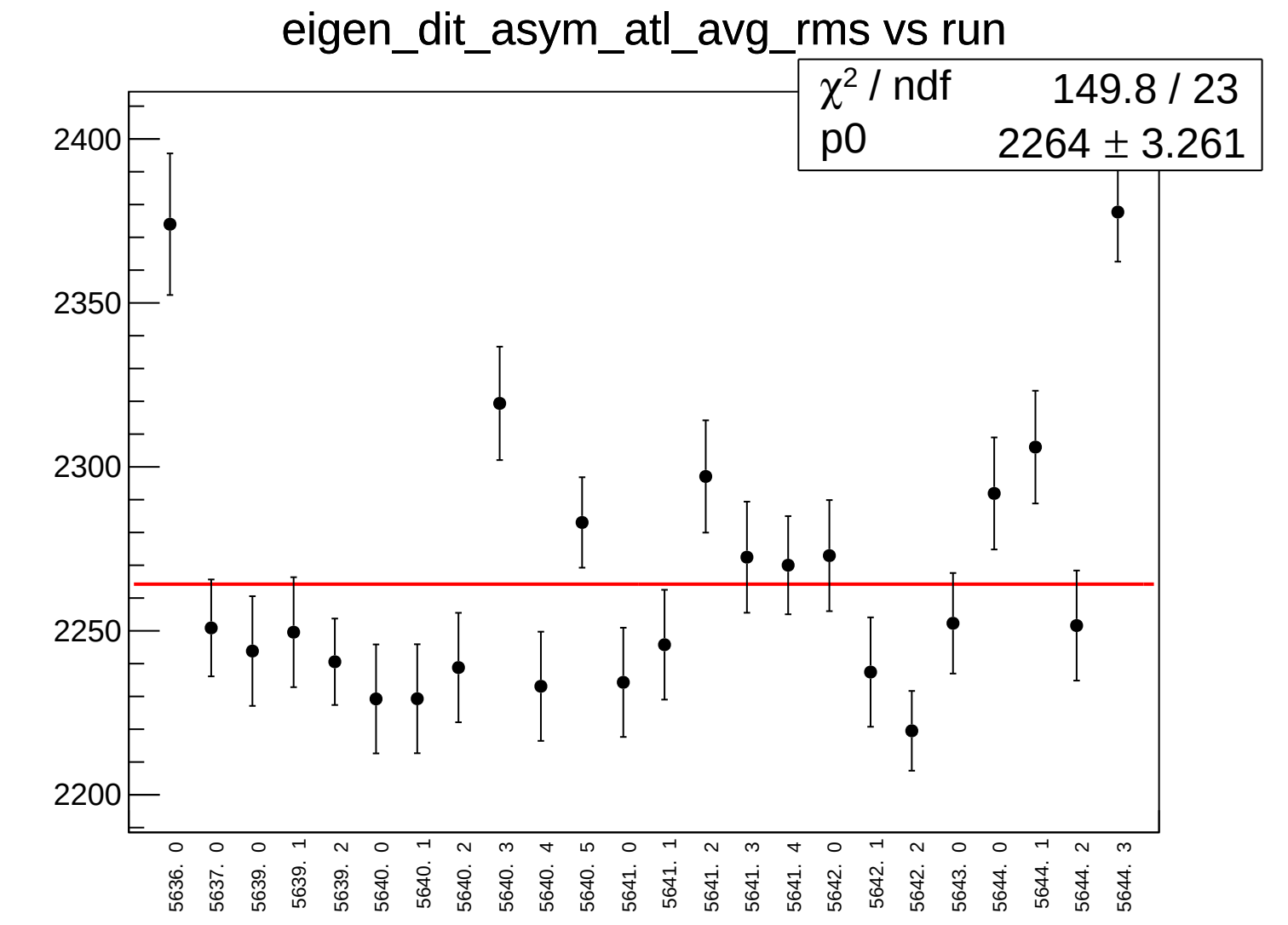

pull1D
Entries 24
Mean −0.02422
Std Dev 0.8984
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

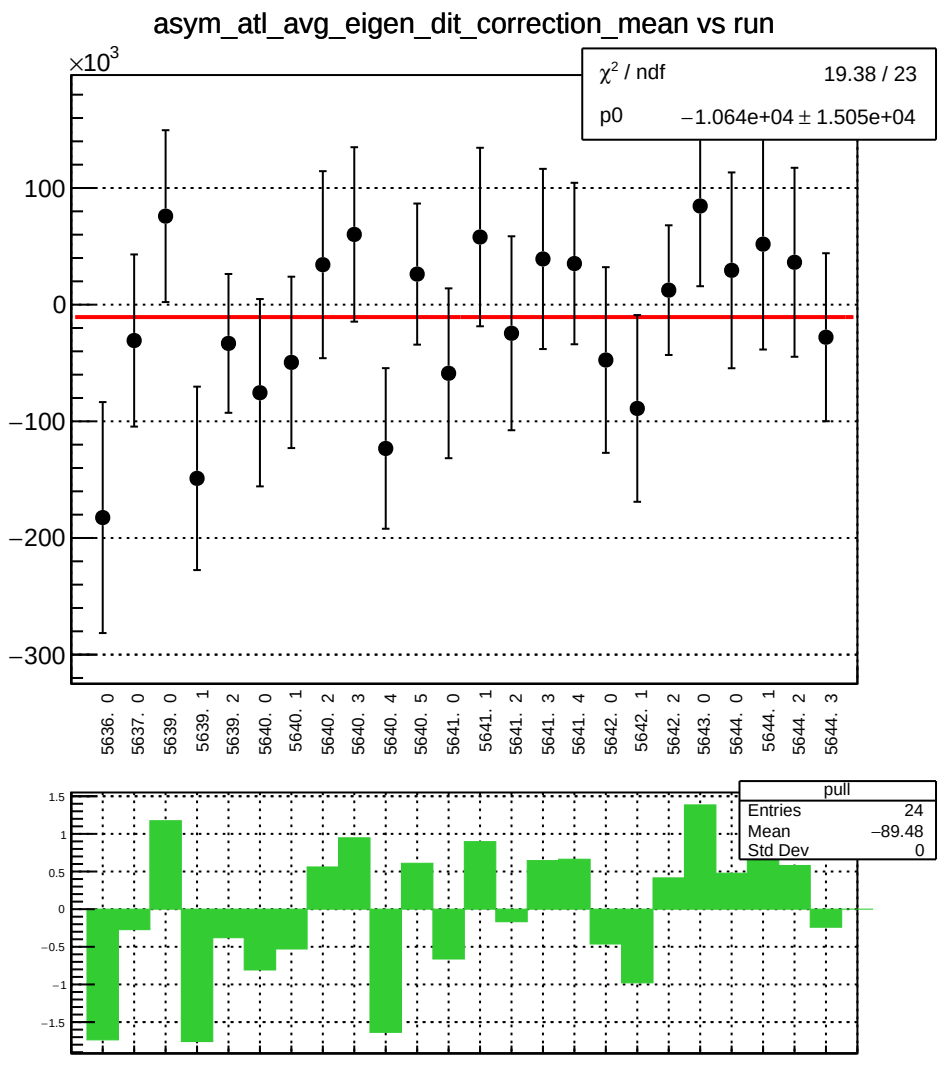

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 1569 / 23
p0 7379 ± 10.64
8500
8000
7500
7000
6500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

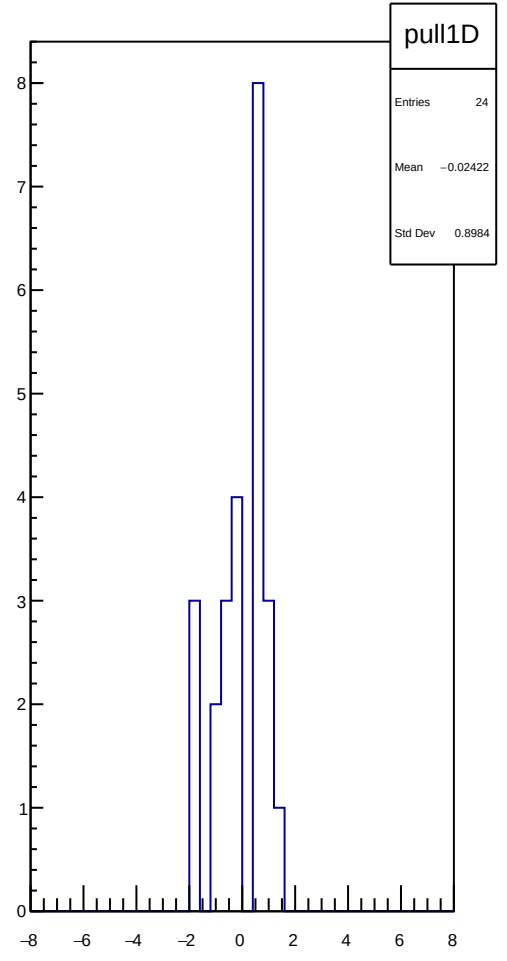

eigen_dit_asym_atl_avg_mean vs run
×10^3
χ² / ndf 22.38 / 23
p0 −7292 ± 4612
80
60
40
20
0
−20
−40
−60
−80
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

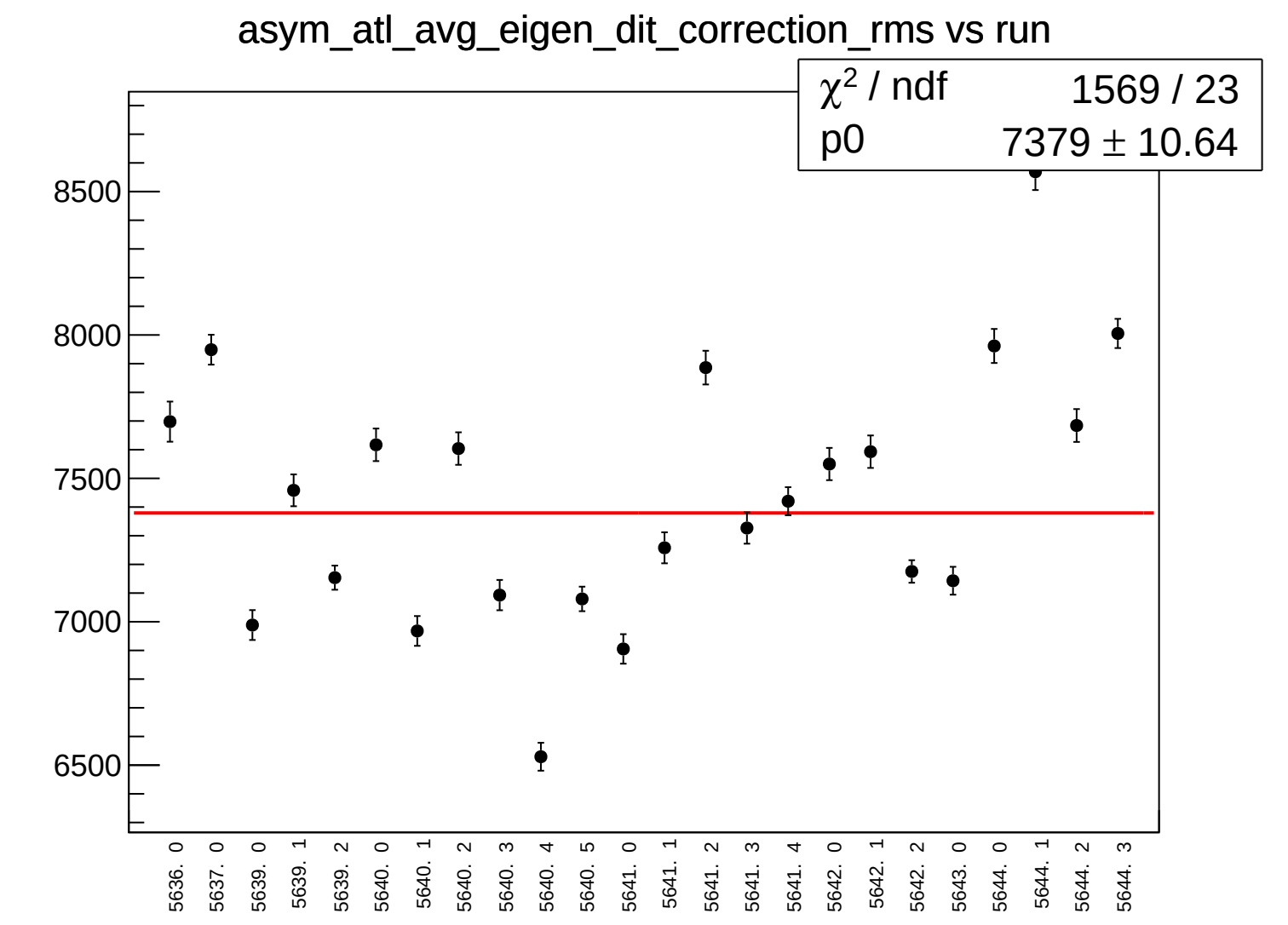

pull
Entries 24
Mean −63.03
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

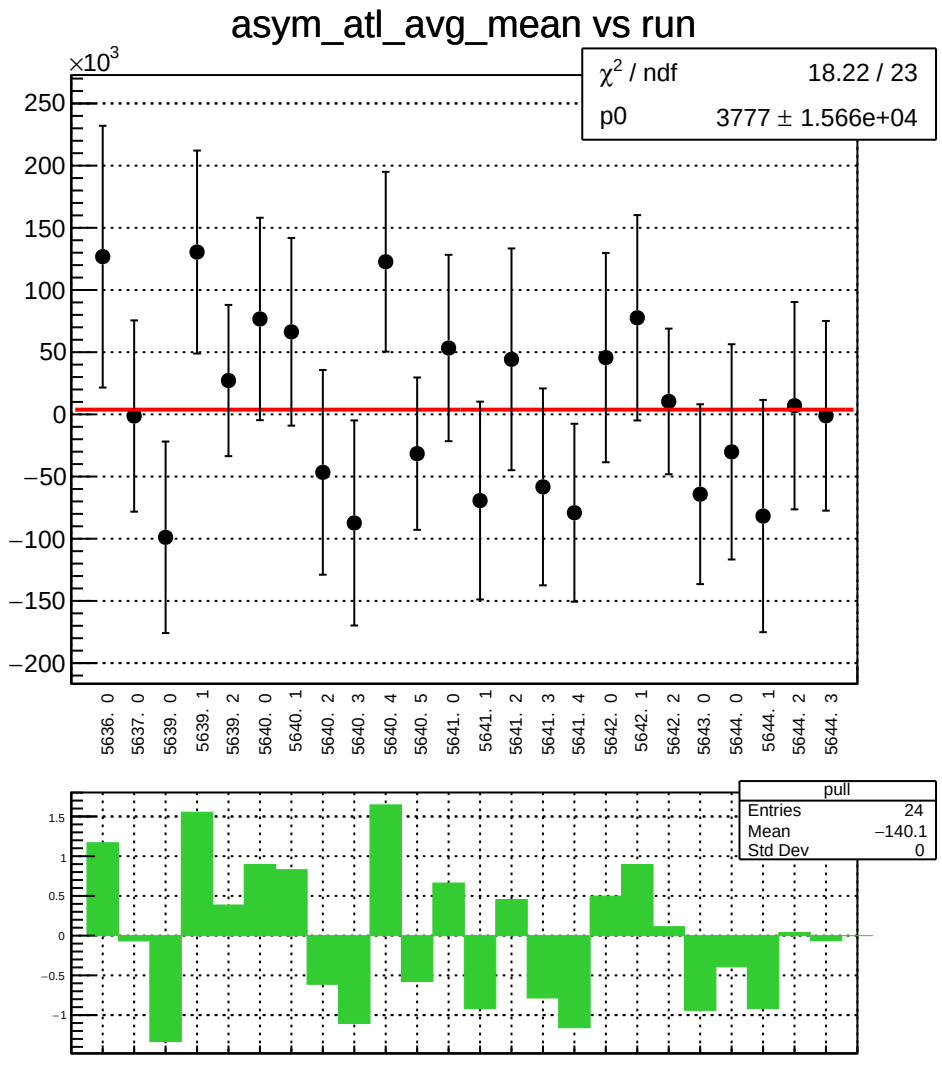

pull1D
Entries 24
Mean −0.03046
Std Dev 0.9651
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

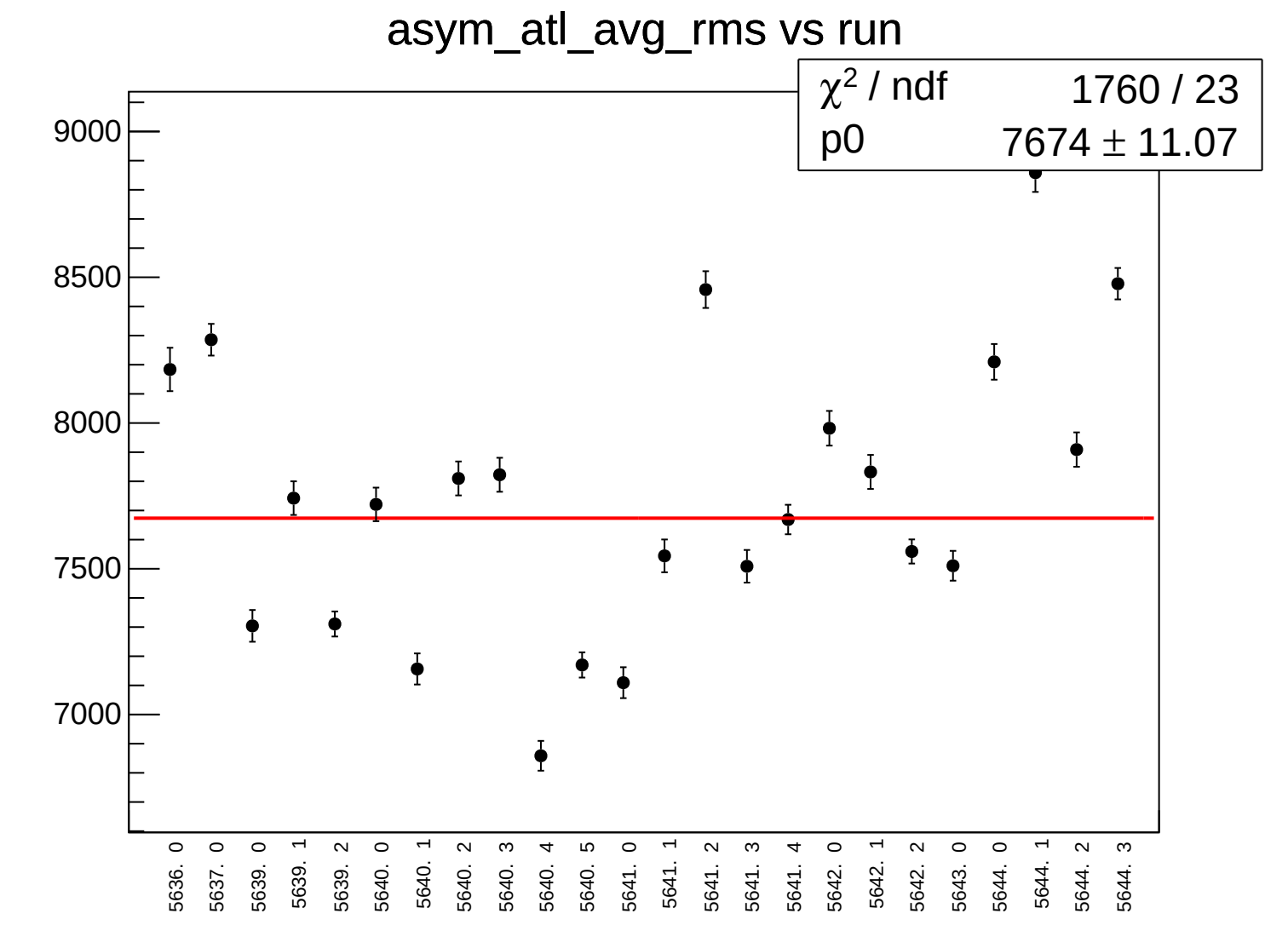

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 149.8 / 23
p0 2264 ± 3.261
2400
2350
2300
2250
2200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

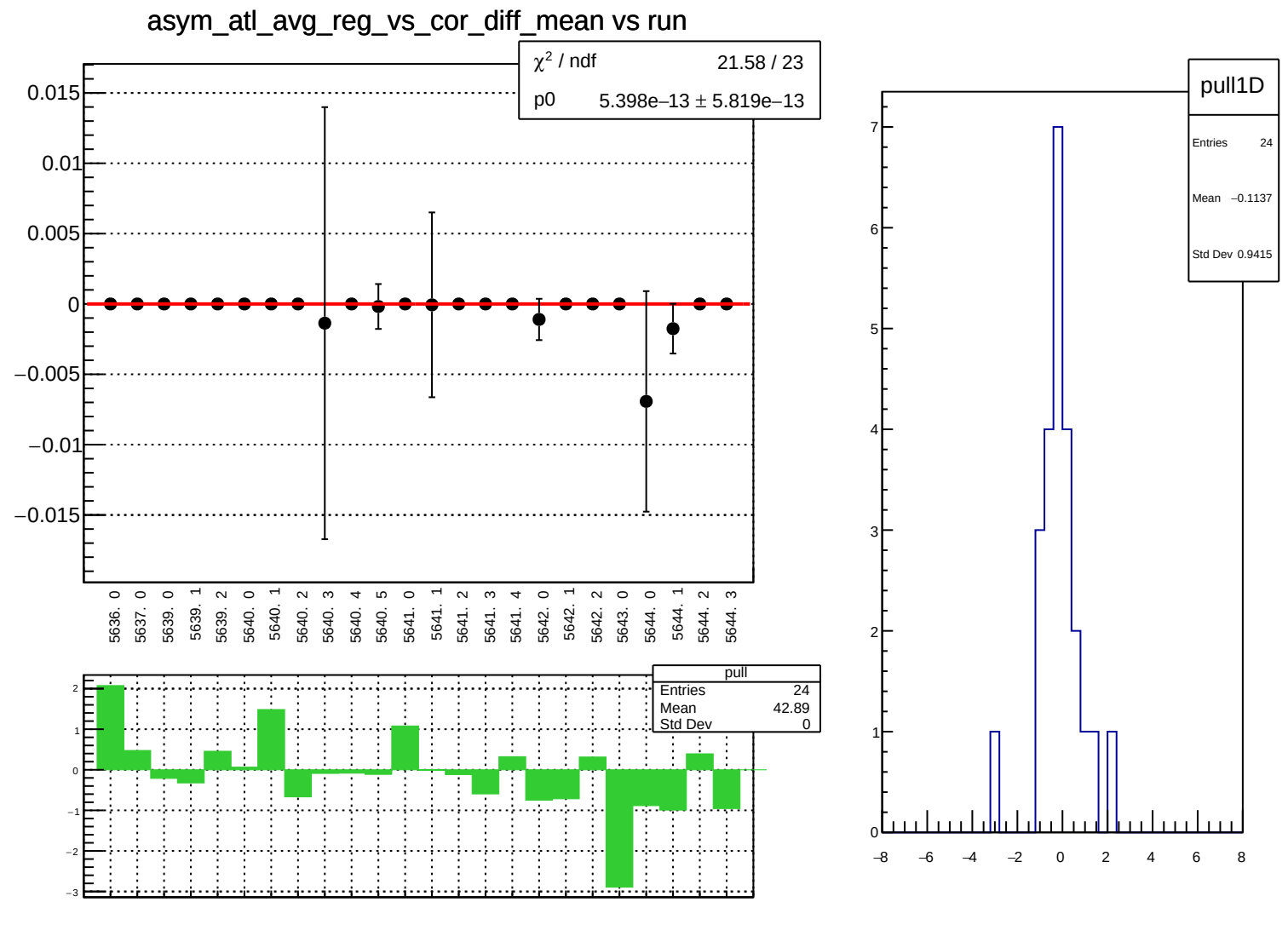

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 19.38 / 23
p0 −1.064e+04 ± 1.505e+04
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −89.48
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

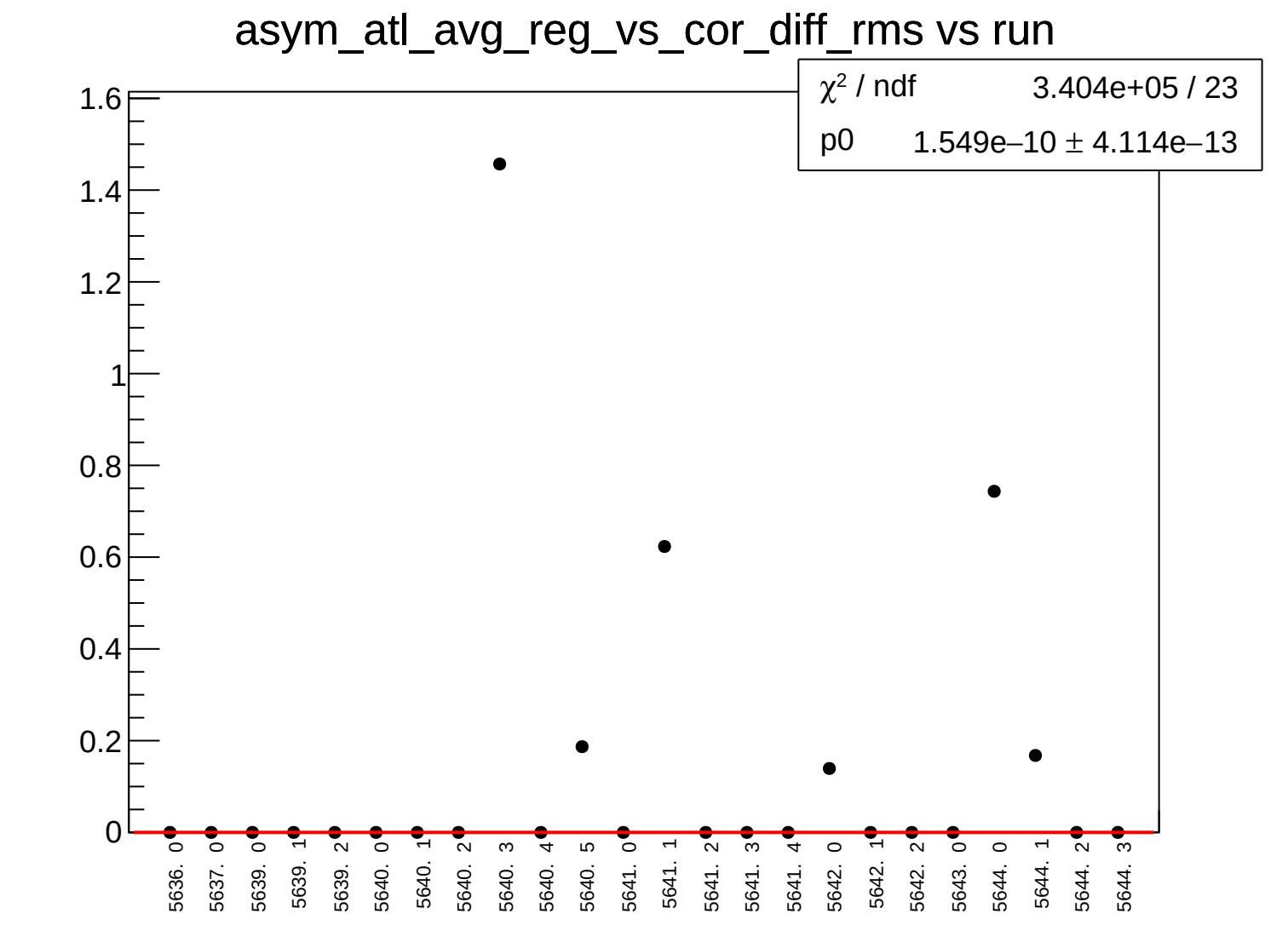

pull1D
Entries 24
Mean −0.02422
Std Dev 0.8984
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

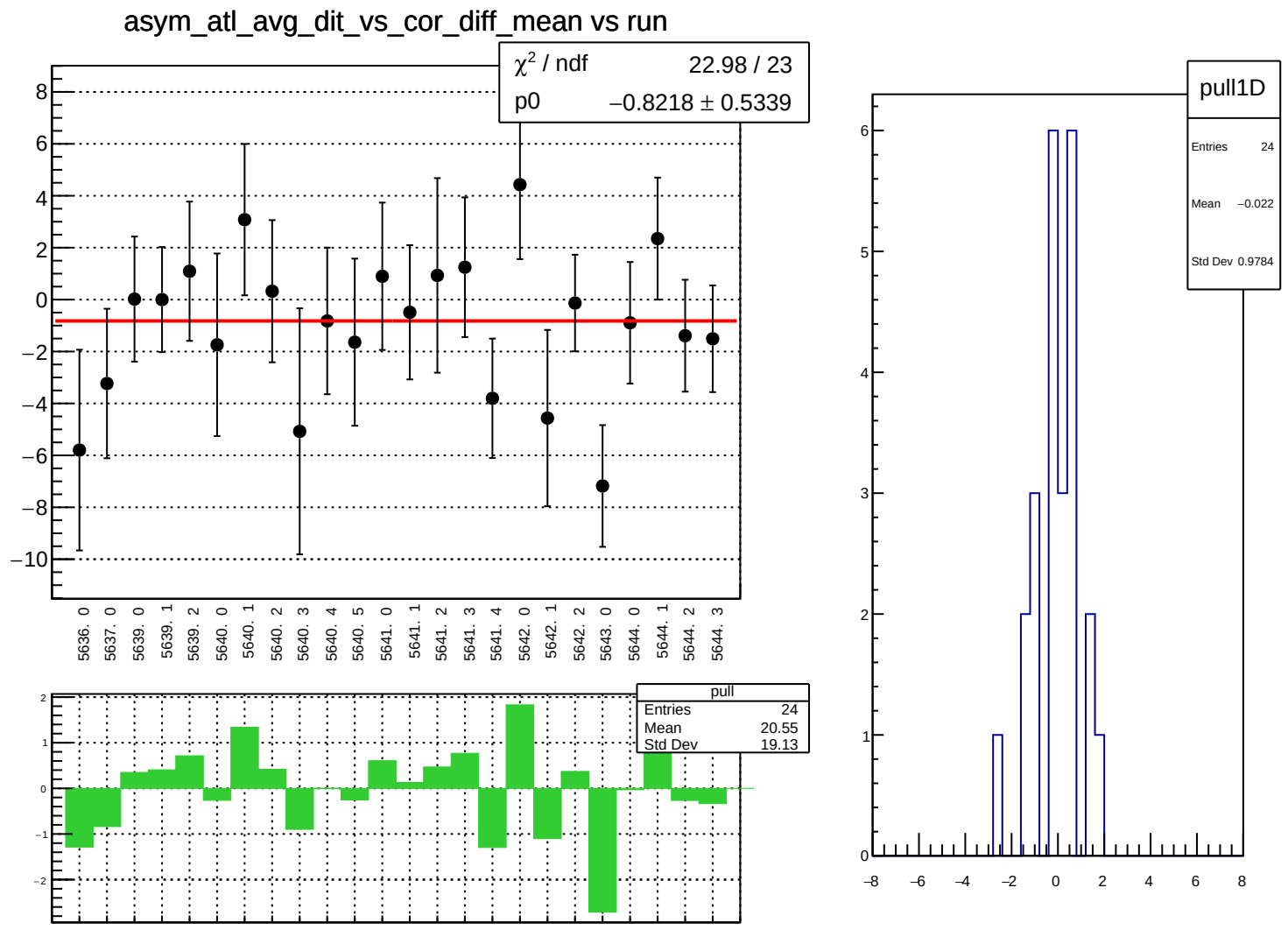

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 1569 / 23
p0 7379 ± 10.64
8500
8000
7500
7000
6500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

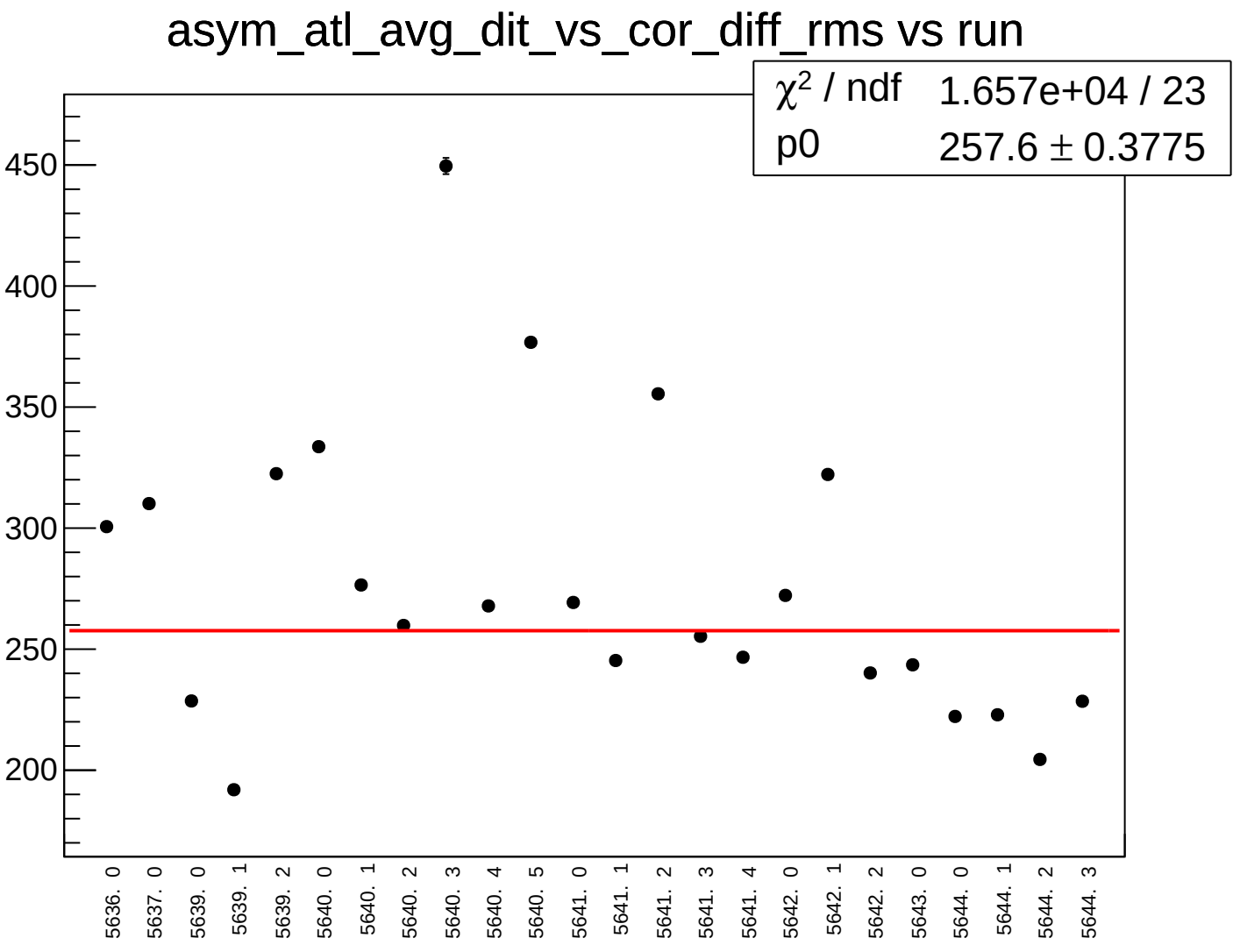

asym_atl_avg_mean vs run
×10^3
χ² / ndf 18.22 / 23
p0 3777 ± 1.566e+04
250
200
150
100
50
0
−50
−100
−150
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −140.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.01119
Std Dev 0.8713
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

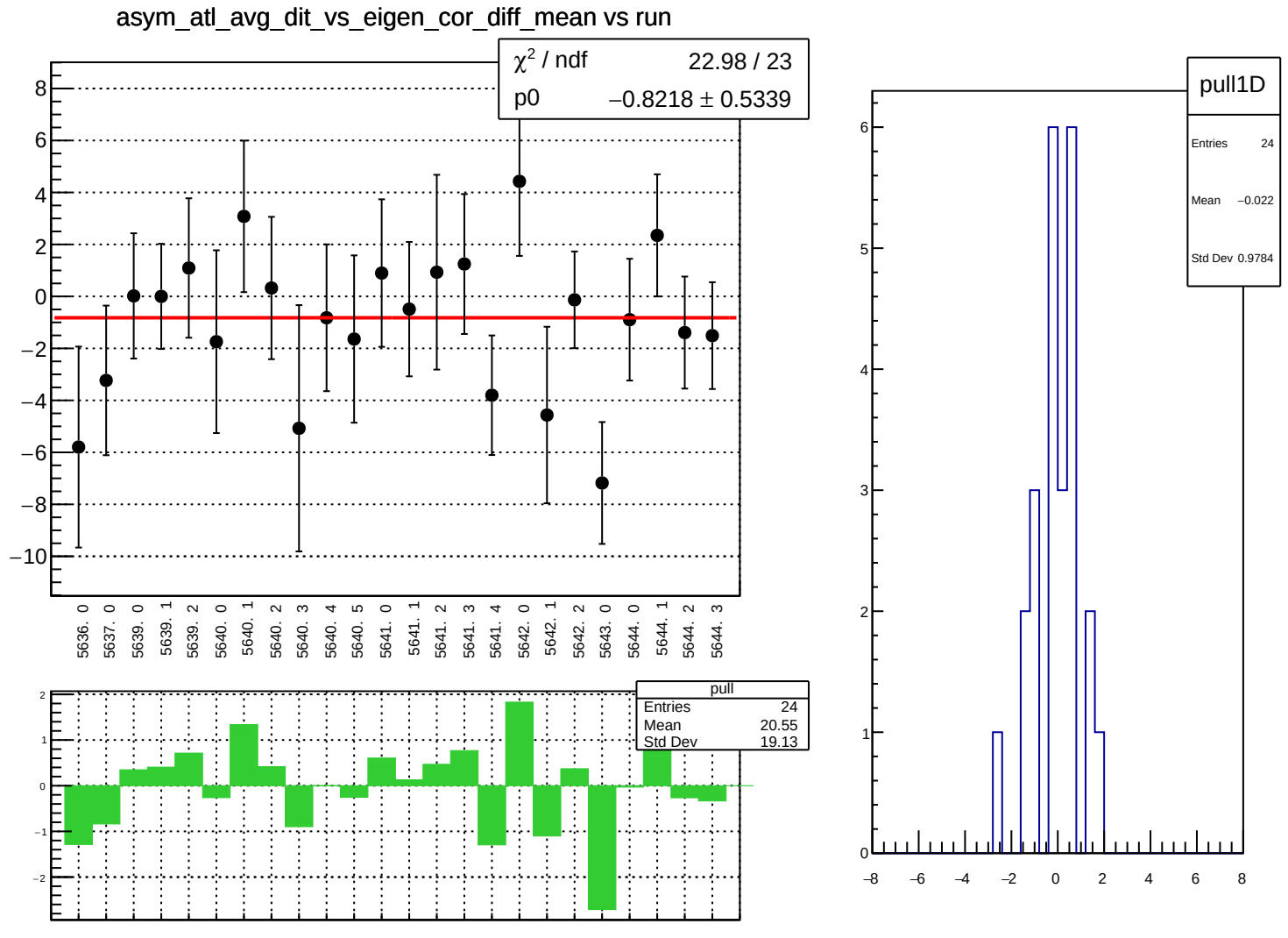

asym_atl_avg_rms vs run
χ² / ndf 1760 / 23
p0 7674 ± 11.07
9000
8500
8000
7500
7000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

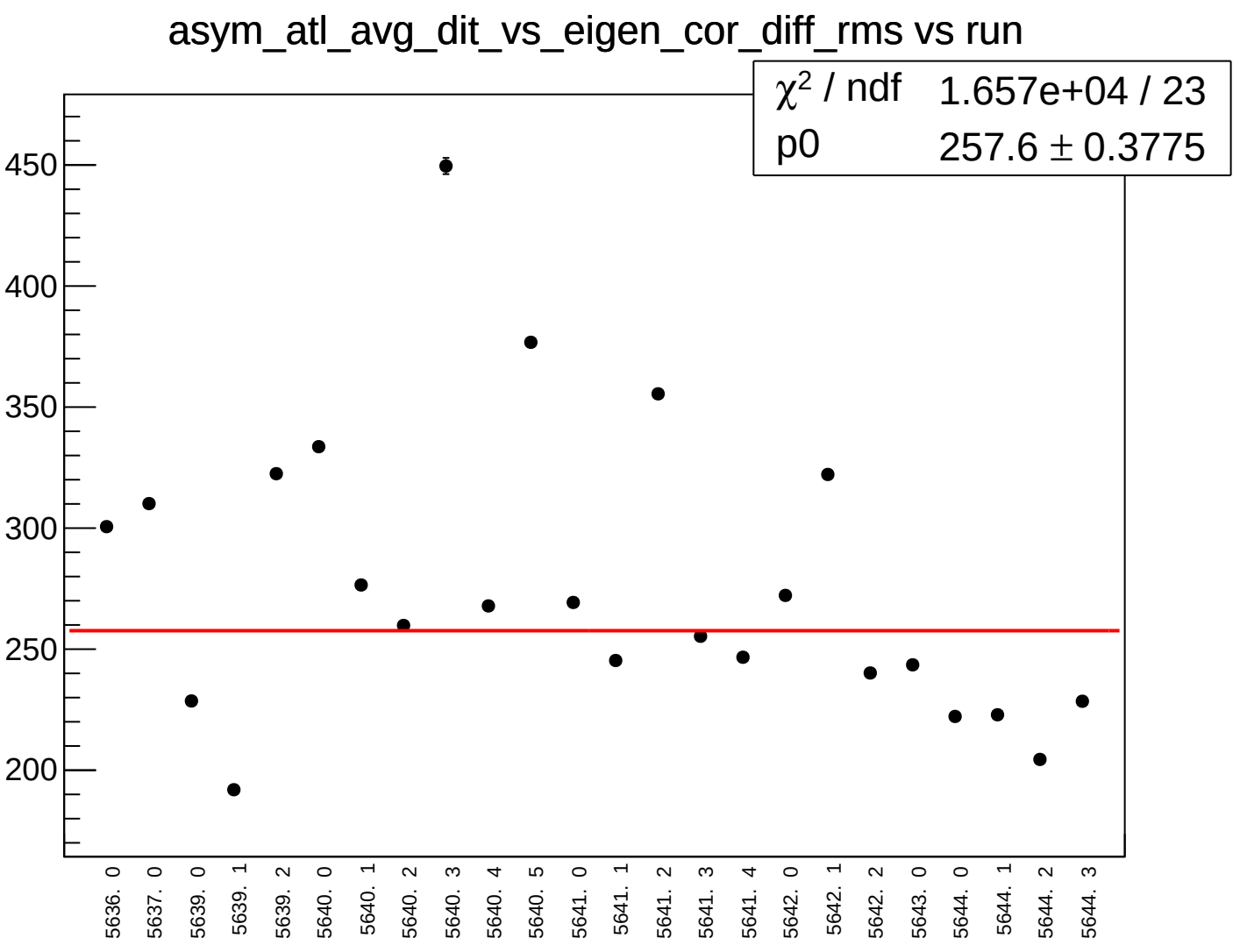

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 21.58 / 23
p0 5.398e−13 ± 5.819e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 42.89
Std Dev 0
pull1D
Entries 24
Mean −0.1137
Std Dev 0.9415

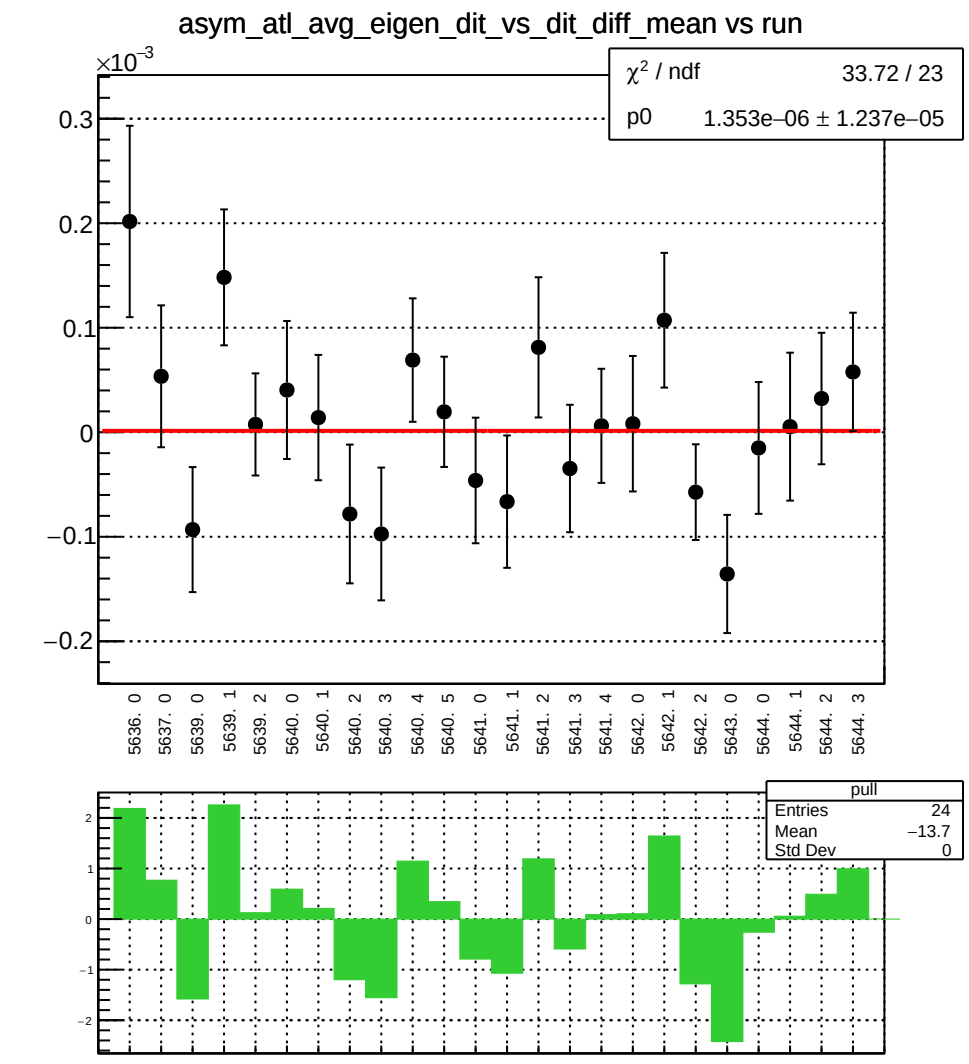

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.404e+05 / 23
p0 1.549e−10 ± 4.114e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

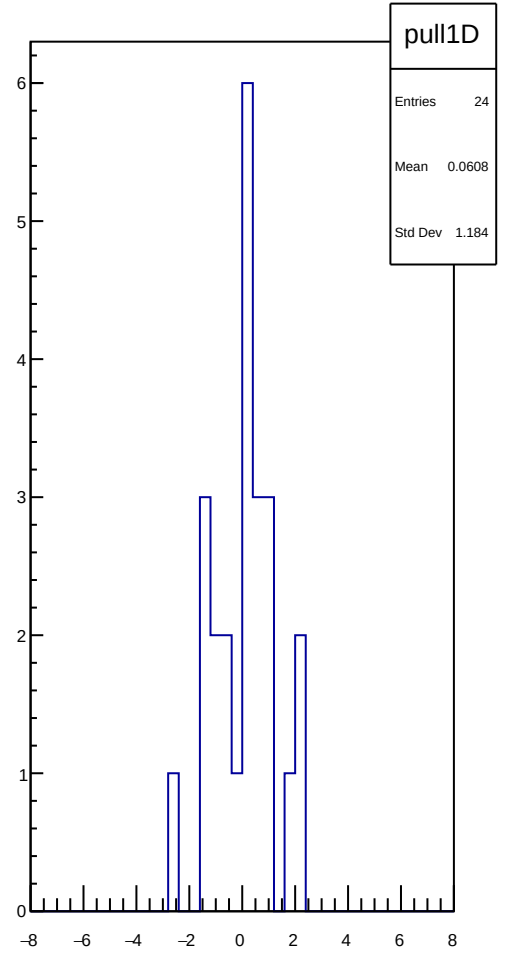

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 22.98 / 23
p0 −0.8218 ± 0.5339
8
6
4
2
0
−2
−4
−6
−8
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 20.55
Std Dev 19.13
2
1
0
−1
−2
pull1D
Entries 24
Mean −0.022
Std Dev 0.9784
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

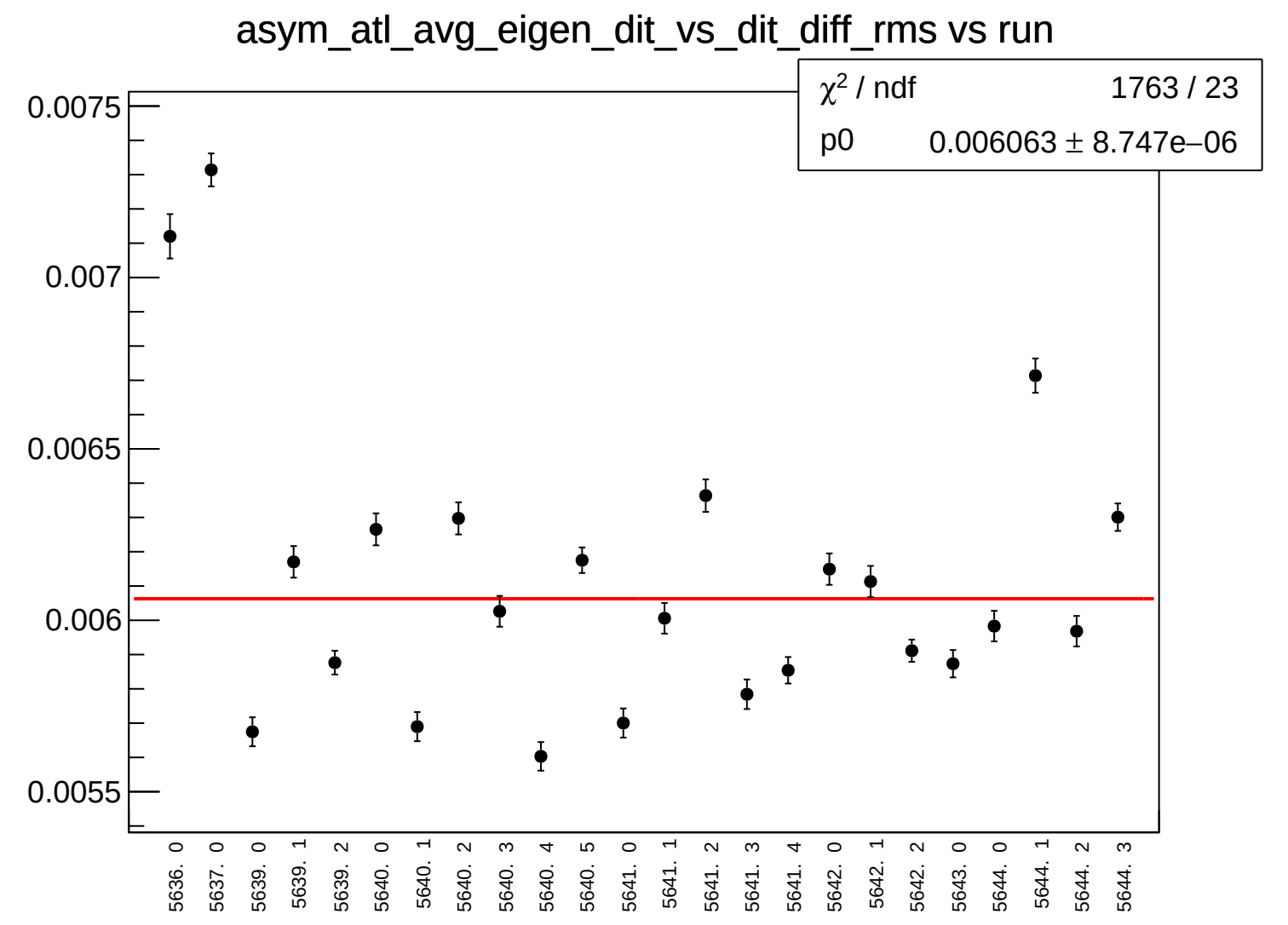

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.657e+04 / 23
p0 257.6 ± 0.3775
450
400
350
300
250
200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

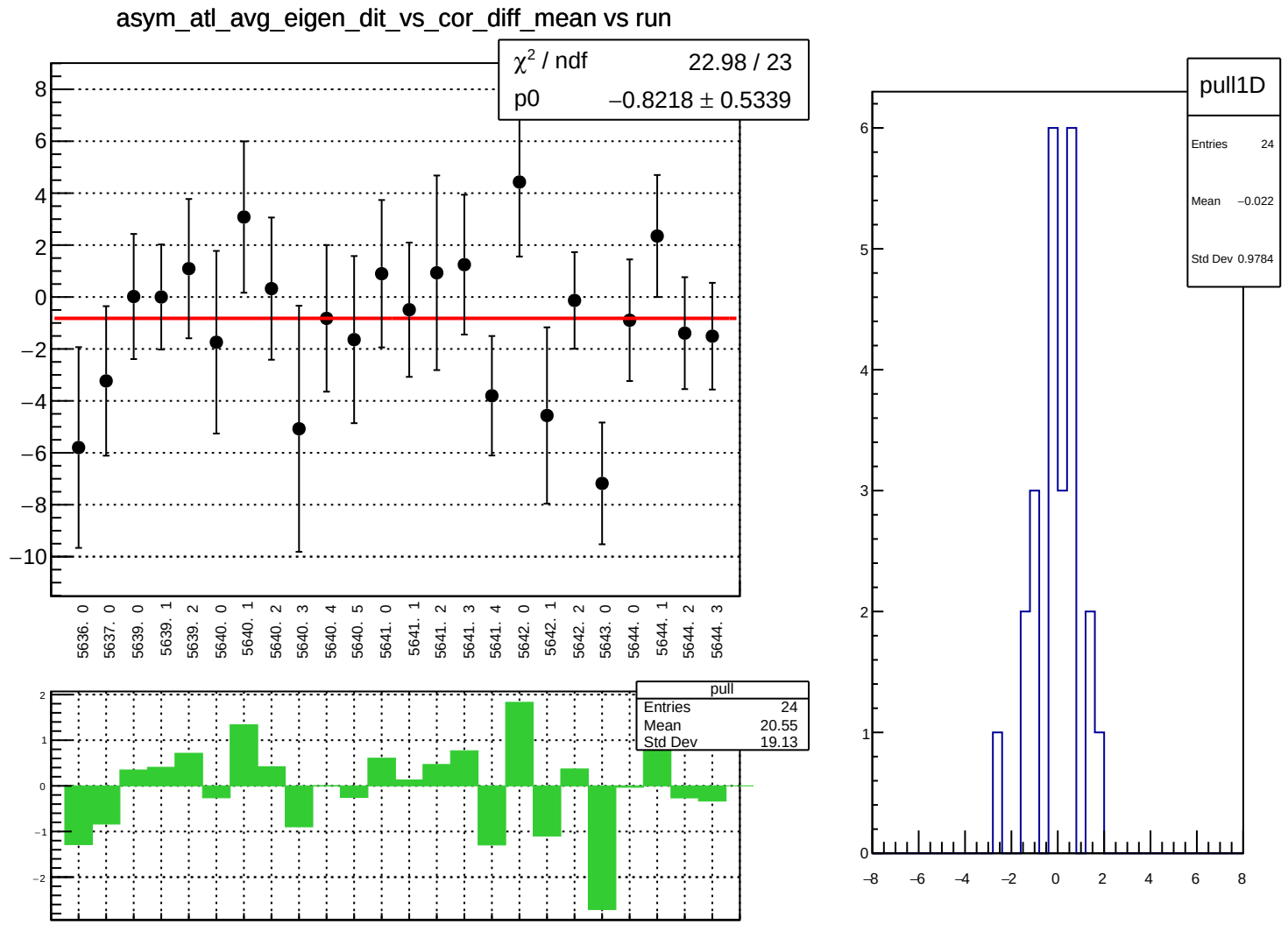

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 22.98 / 23
p0 −0.8218 ± 0.5339
8
6
4
2
0
−2
−4
−6
−8
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 20.55
Std Dev 19.13
2
1
0
−1
−2
pull1D
Entries 24
Mean −0.022
Std Dev 0.9784
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

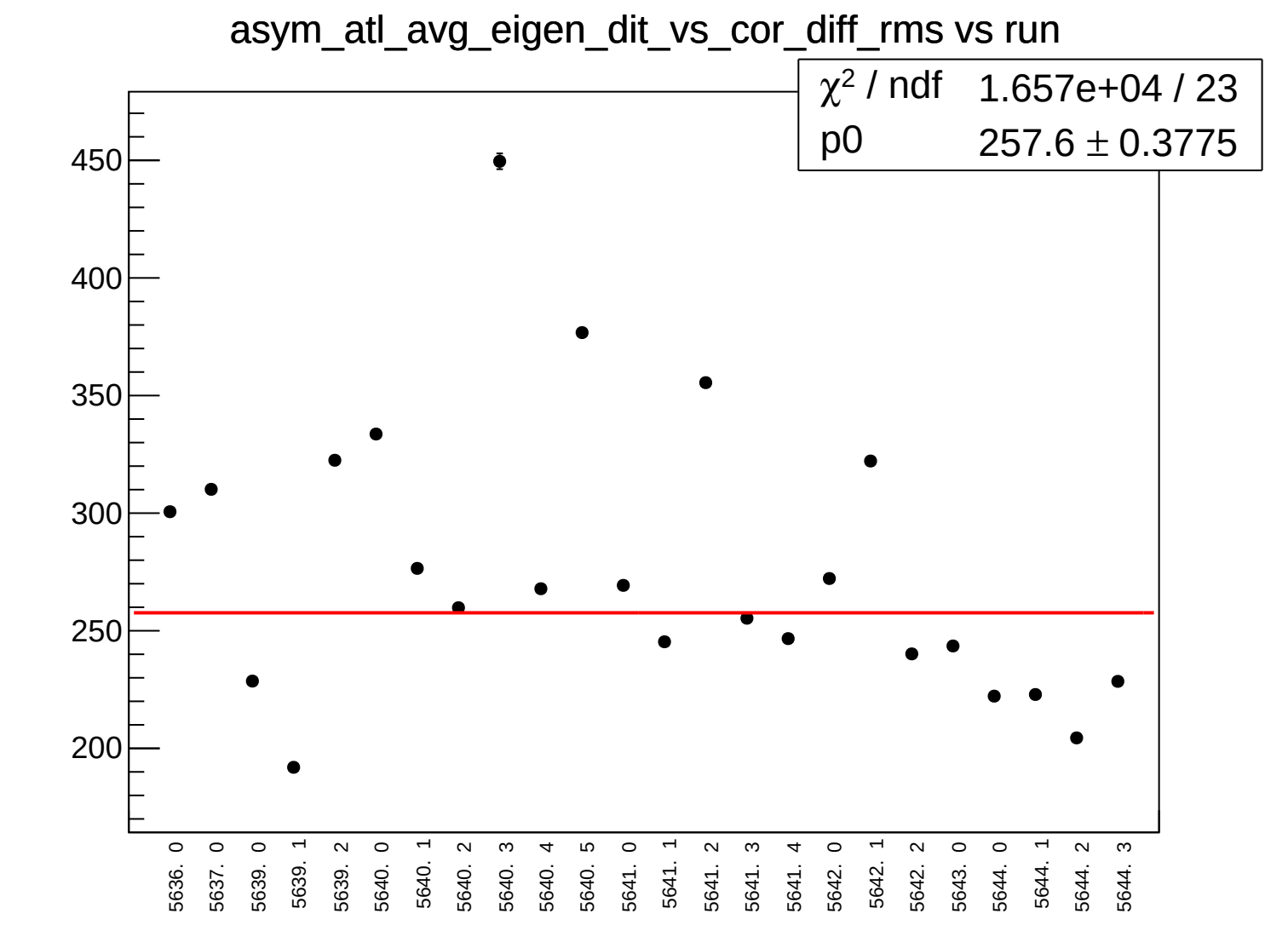

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.657e+04 / 23
p0 257.6 ± 0.3775
450
400
350
300
250
200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

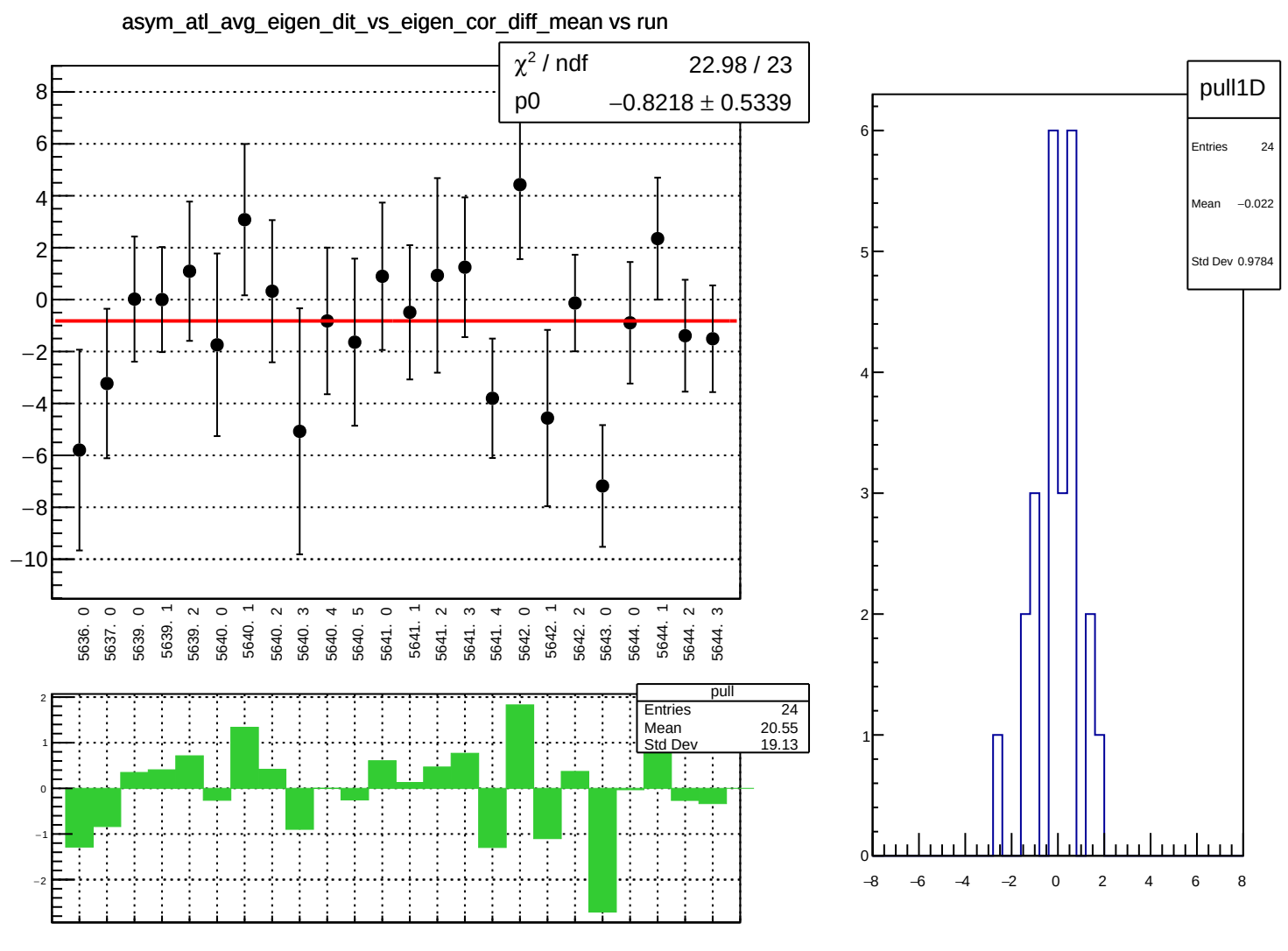

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 33.72 / 23
p0 1.353e−06 ± 1.237e−05
0.3
0.2
0.1
0
−0.1
−0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −13.7
Std Dev 0
2
1
0
−1
−2

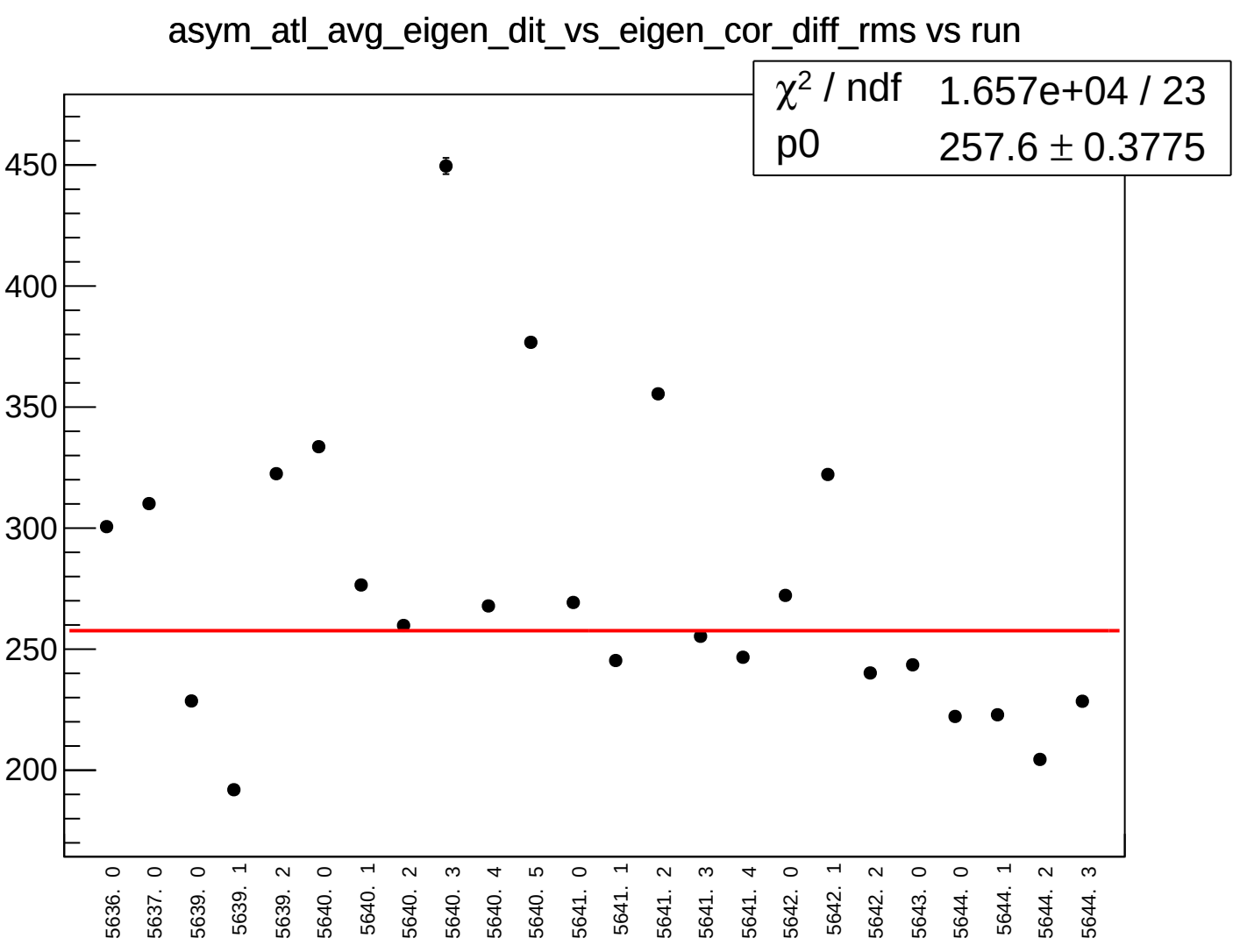

pull1D
Entries 24
Mean 0.0608
Std Dev 1.184
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

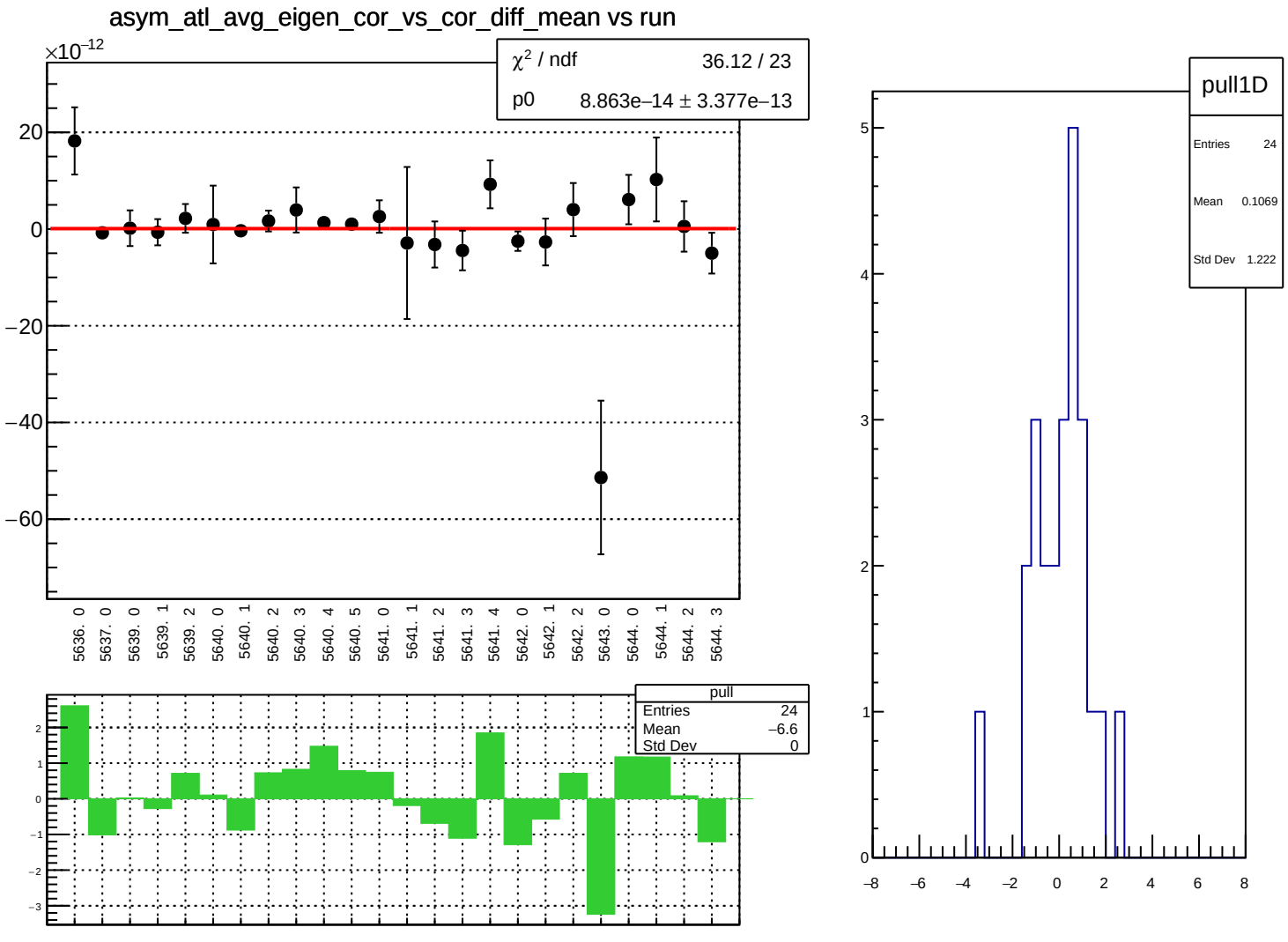

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1763 / 23
p0 0.006063 ± 8.747e−06
0.0075
0.007
0.0065
0.006
0.0055
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

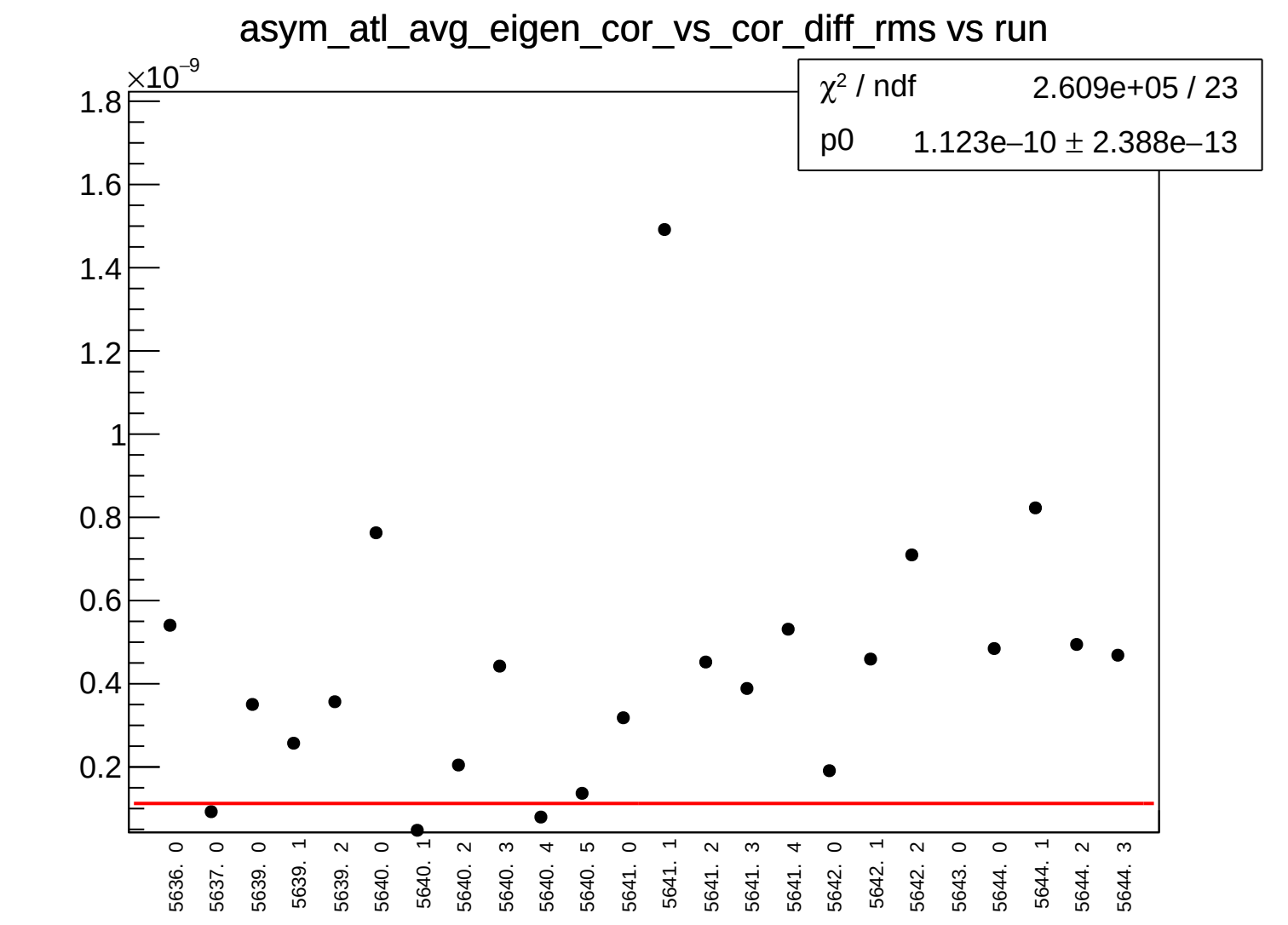

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 22.98 / 23
p0 −0.8218 ± 0.5339
8
6
4
2
0
−2
−4
−6
−8
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 20.55
Std Dev 19.13
2
1
0
−1
−2
pull1D
Entries 24
Mean −0.022
Std Dev 0.9784
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

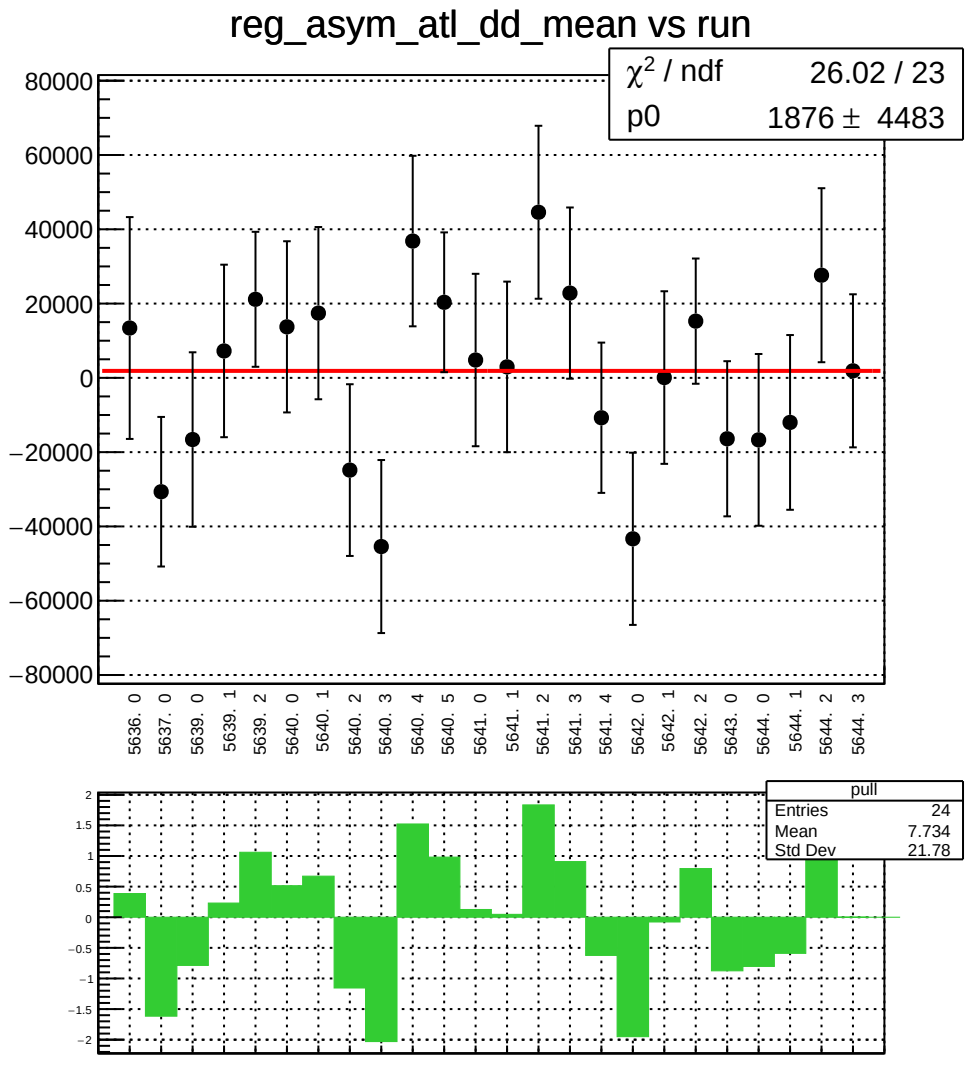

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.657e+04 / 23
p0 257.6 ± 0.3775
450
400
350
300
250
200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

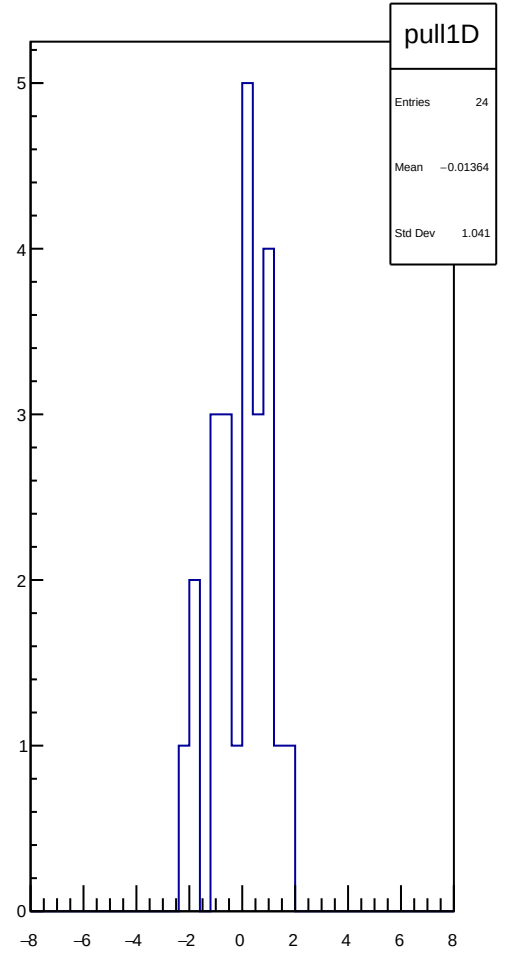

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 22.98 / 23
p0 −0.8218 ± 0.5339
8
6
4
2
0
−2
−4
−6
−8
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 20.55
Std Dev 19.13
2
1
0
−1
−2
pull1D
Entries 24
Mean −0.022
Std Dev 0.9784
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

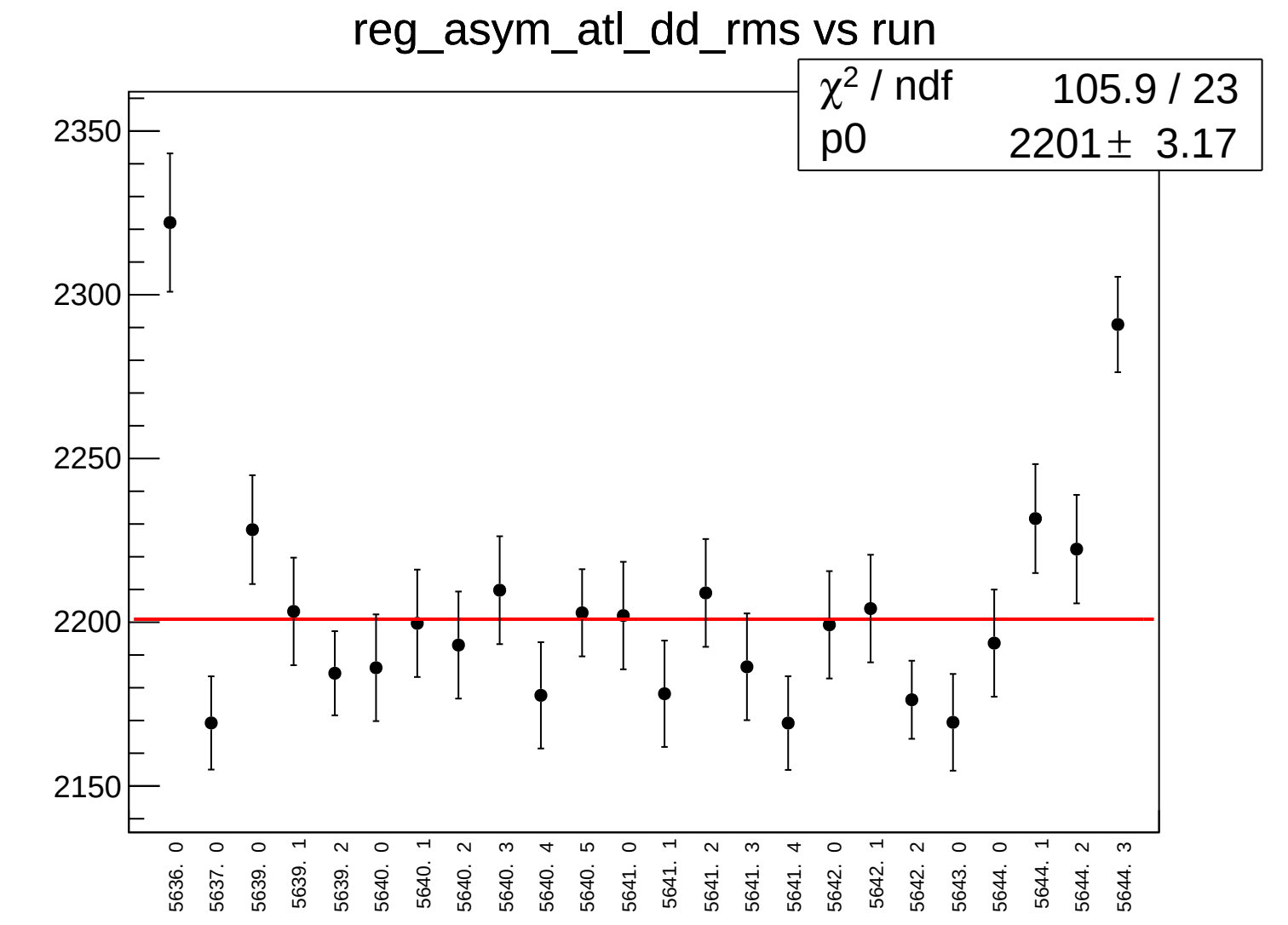

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.657e+04 / 23
p0 257.6 ± 0.3775
450
400
350
300
250
200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

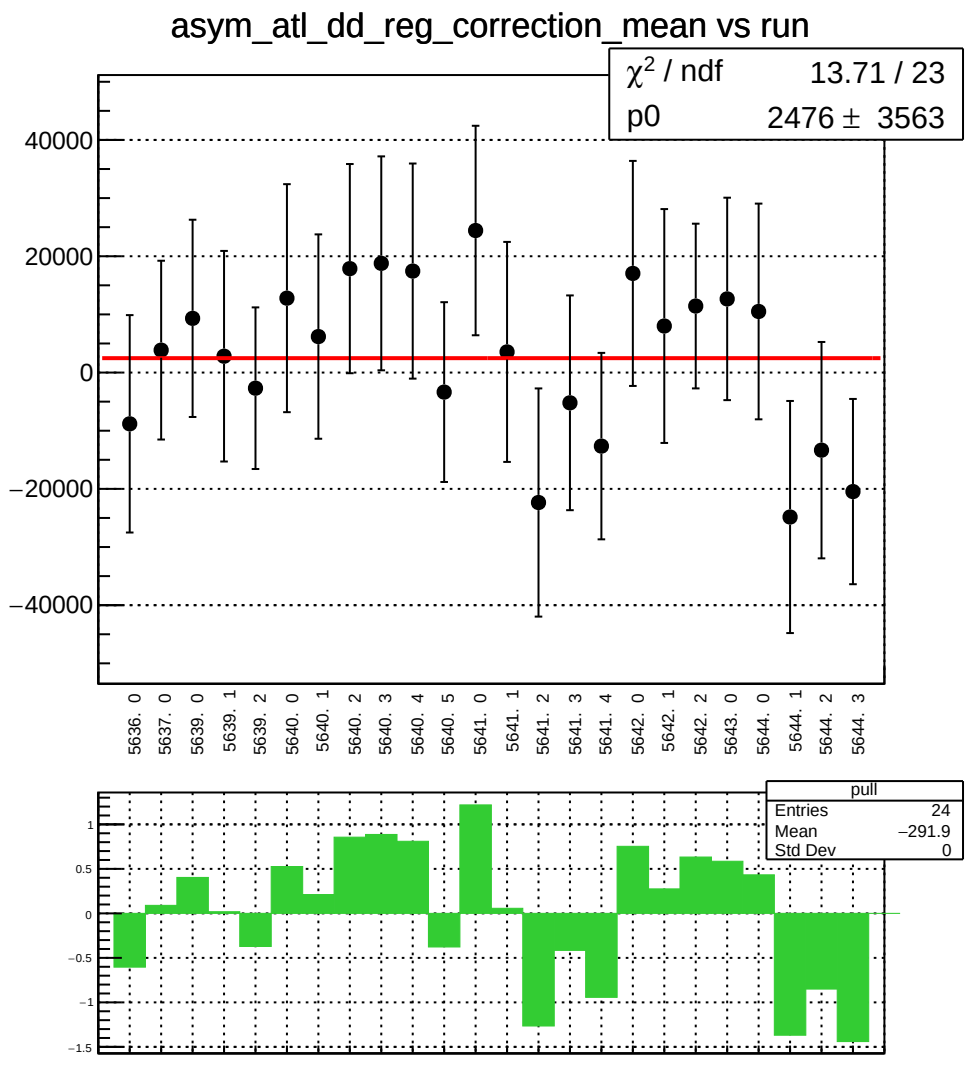

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 36.12 / 23
p0 8.863e−14 ± 3.377e−13
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −6.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean 0.1069
Std Dev 1.222
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

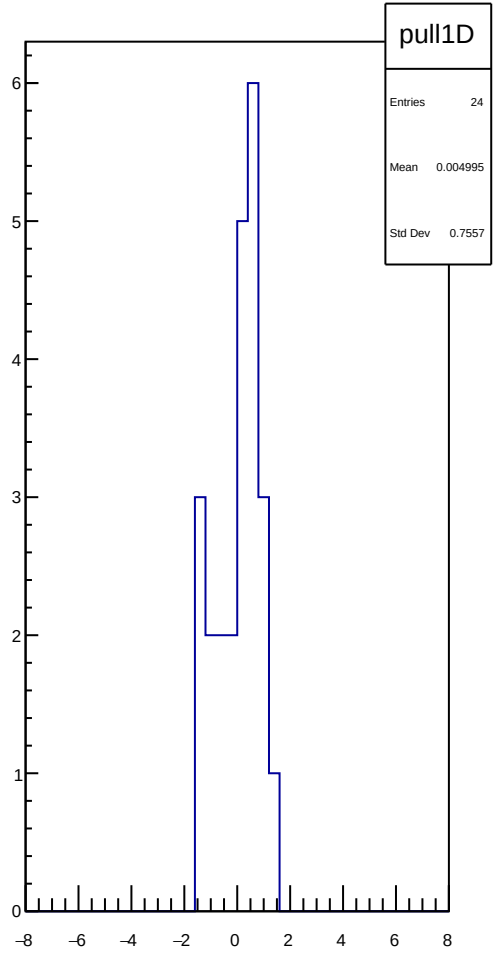

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.609e+05 / 23
p0 1.123e−10 ± 2.388e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

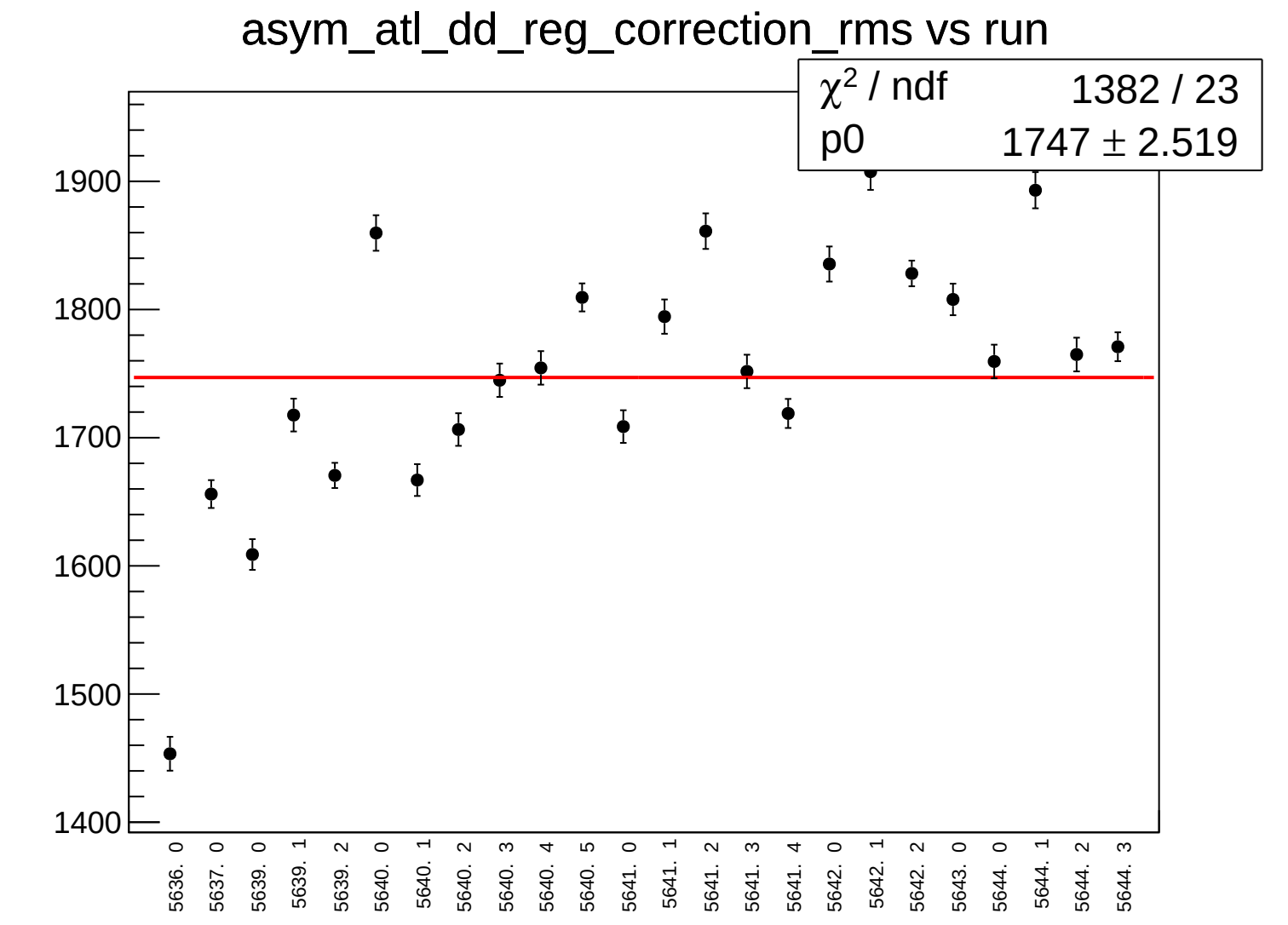

reg_asym_atl_dd_mean vs run
χ² / ndf 26.02 / 23
p0 1876 ± 4483
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 7.734
Std Dev 21.78
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

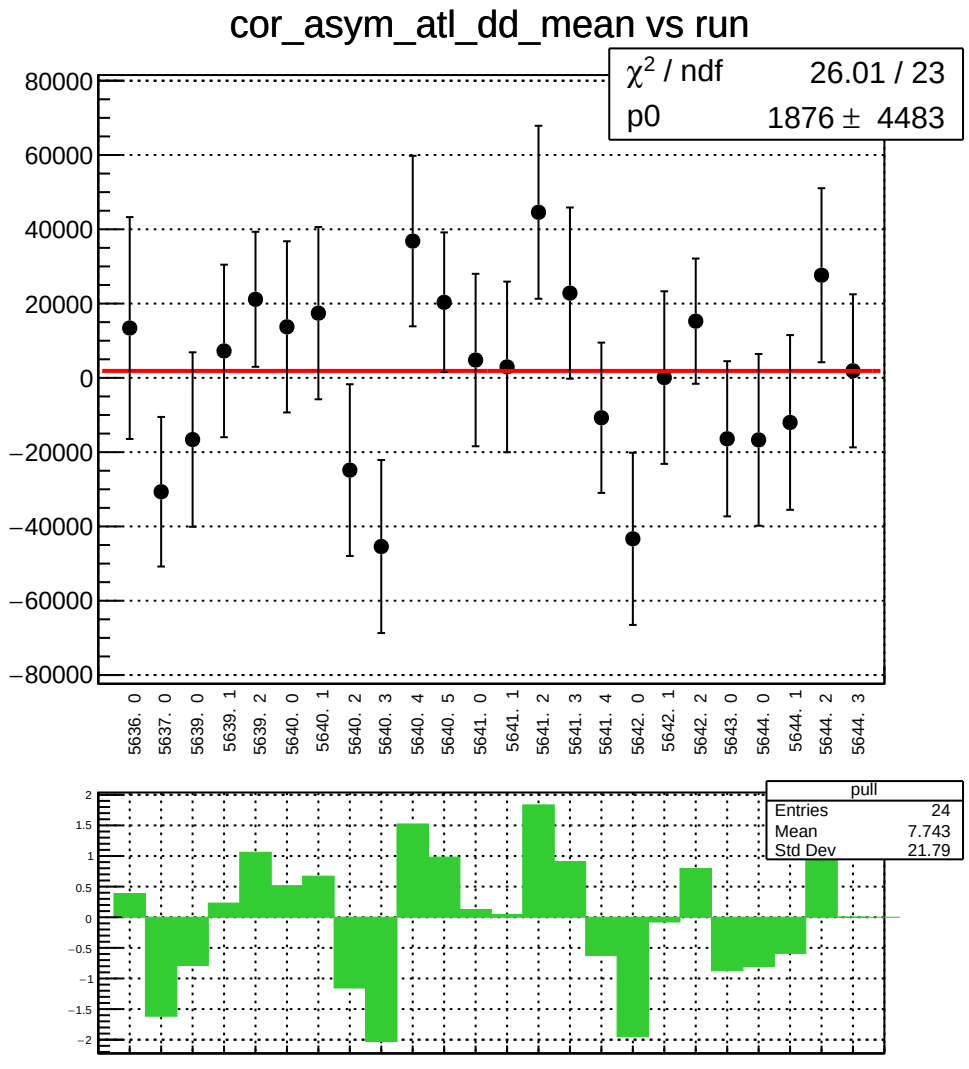

pull1D
Entries 24
Mean −0.01364
Std Dev 1.041
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

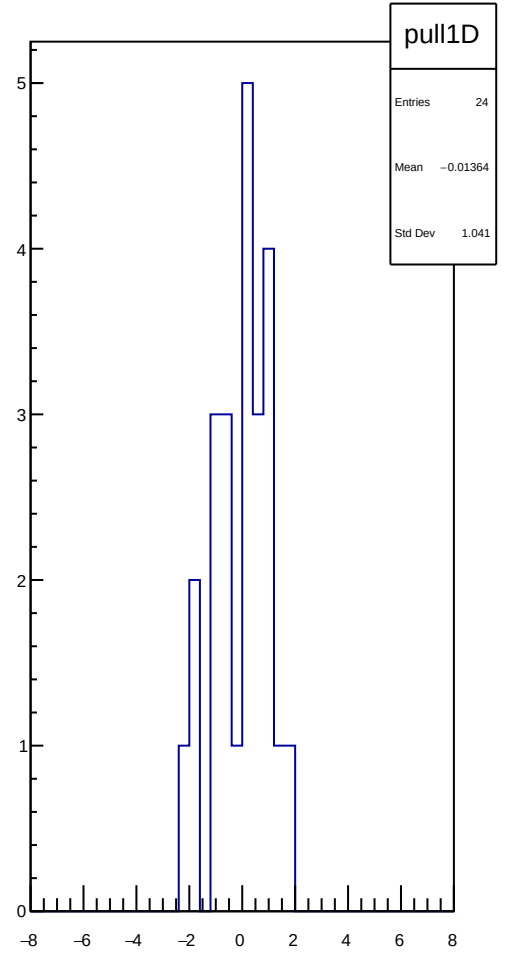

reg_asym_atl_dd_rms vs run
χ2 / ndf 105.9 / 23
p0 2201 ± 3.17
2350
2300
2250
2200
2150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

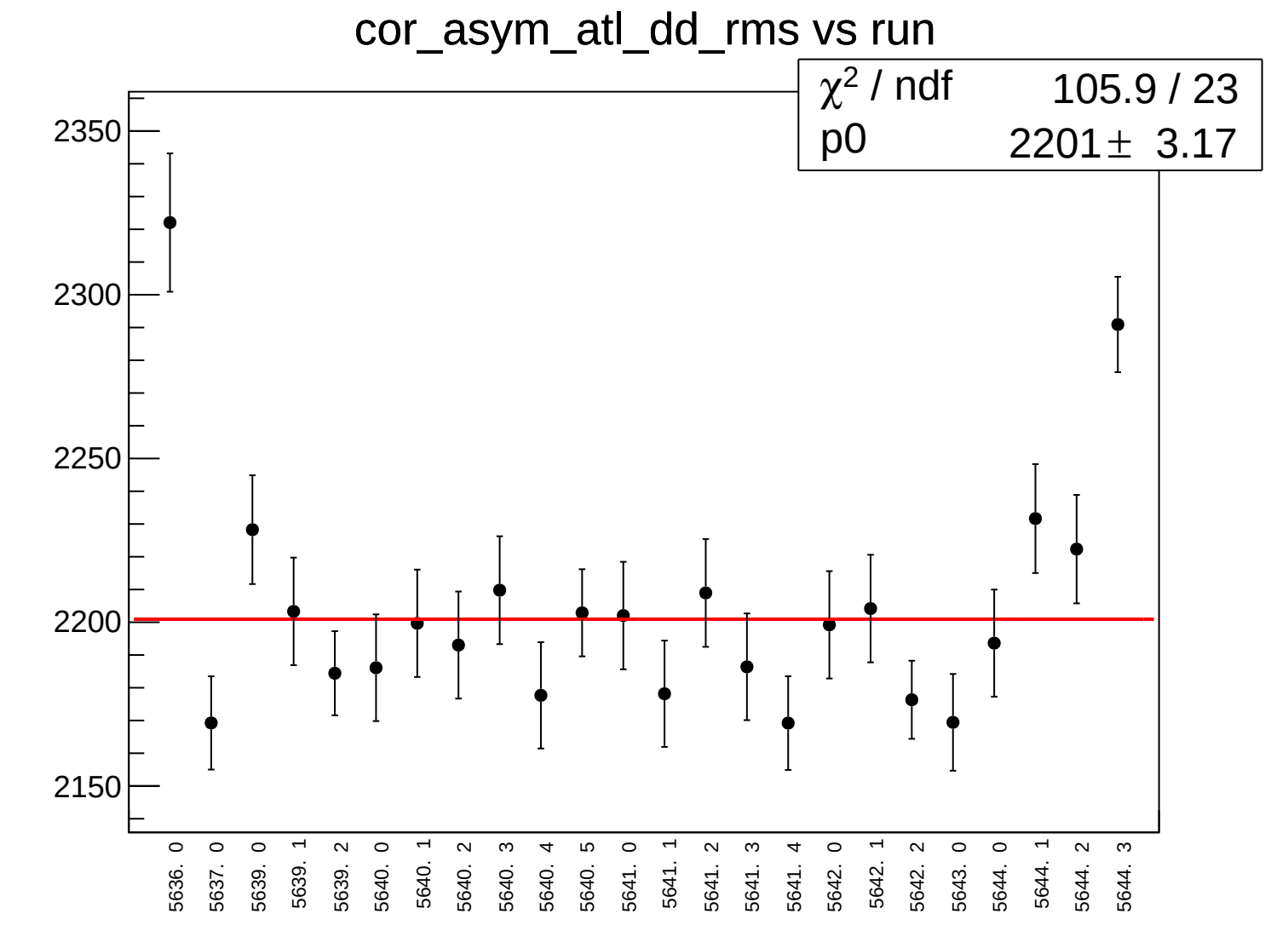

asym_atl_dd_reg_correction_mean vs run
χ² / ndf 13.71 / 23
p0 2476 ± 3563
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −291.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean 0.004995
Std Dev 0.7557
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_reg_correction_rms vs run
χ² / ndf 1382 / 23
p0 1747 ± 2.519
1900
1800
1700
1600
1500
1400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


cor_asym_atl_dd_mean vs run
χ² / ndf 26.01 / 23
p0 1876 ± 4483
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 7.743
Std Dev 21.79
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.01364
Std Dev 1.041
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl_dd_rms vs run
χ2 / ndf 105.9 / 23
p0 2201 ± 3.17
2350
2300
2250
2200
2150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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5642. 0
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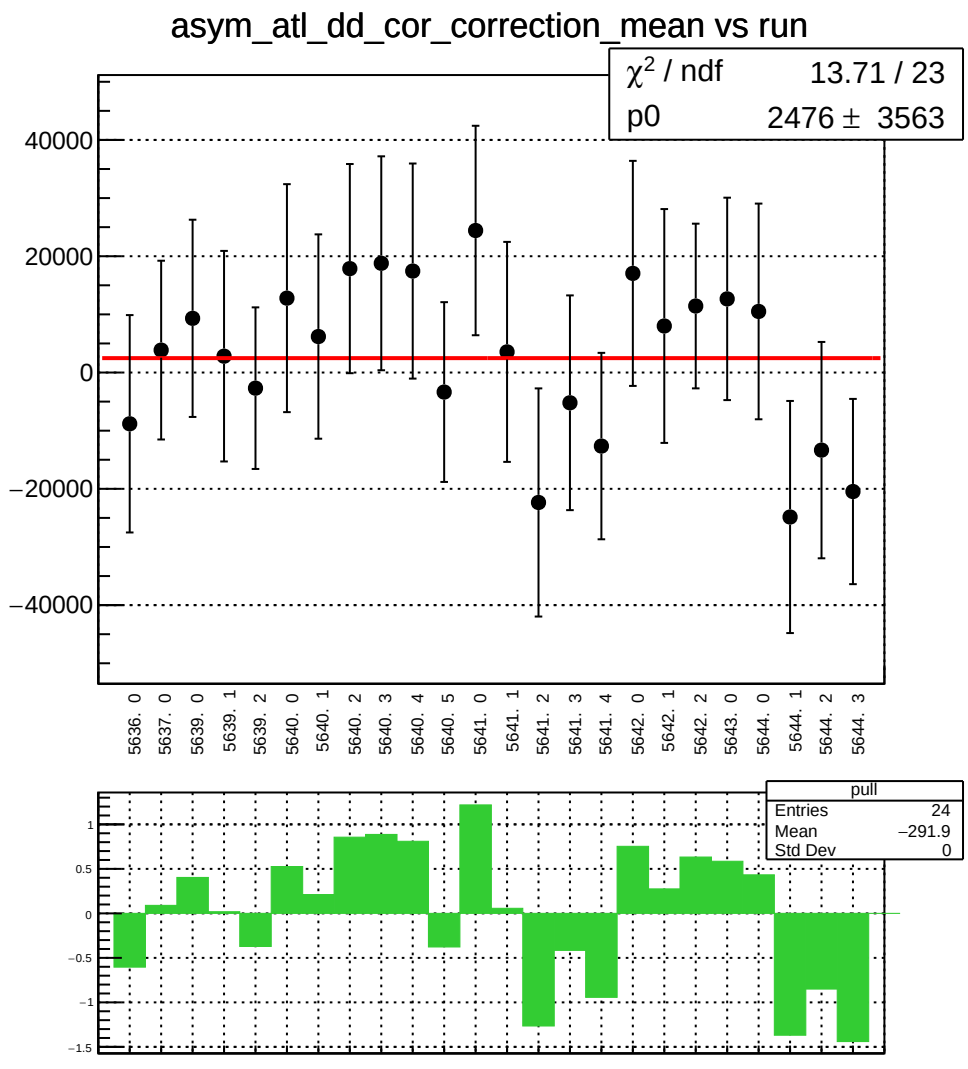
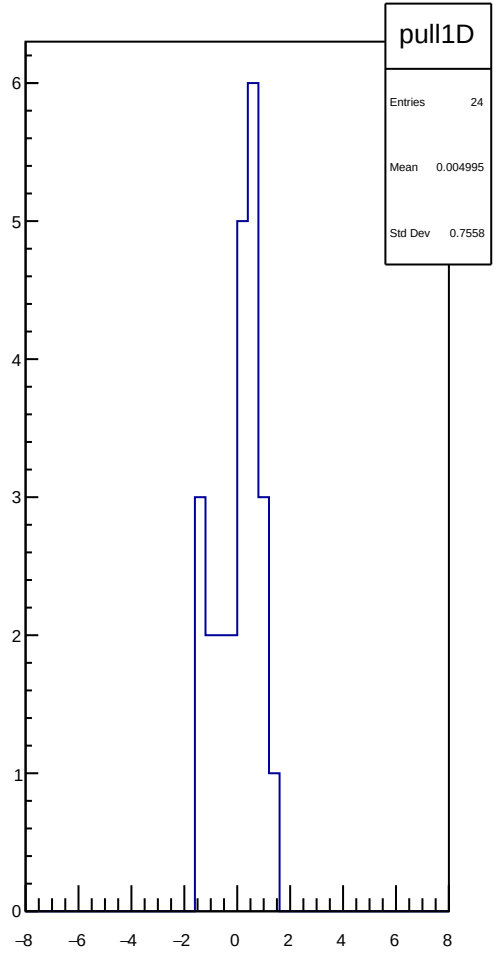
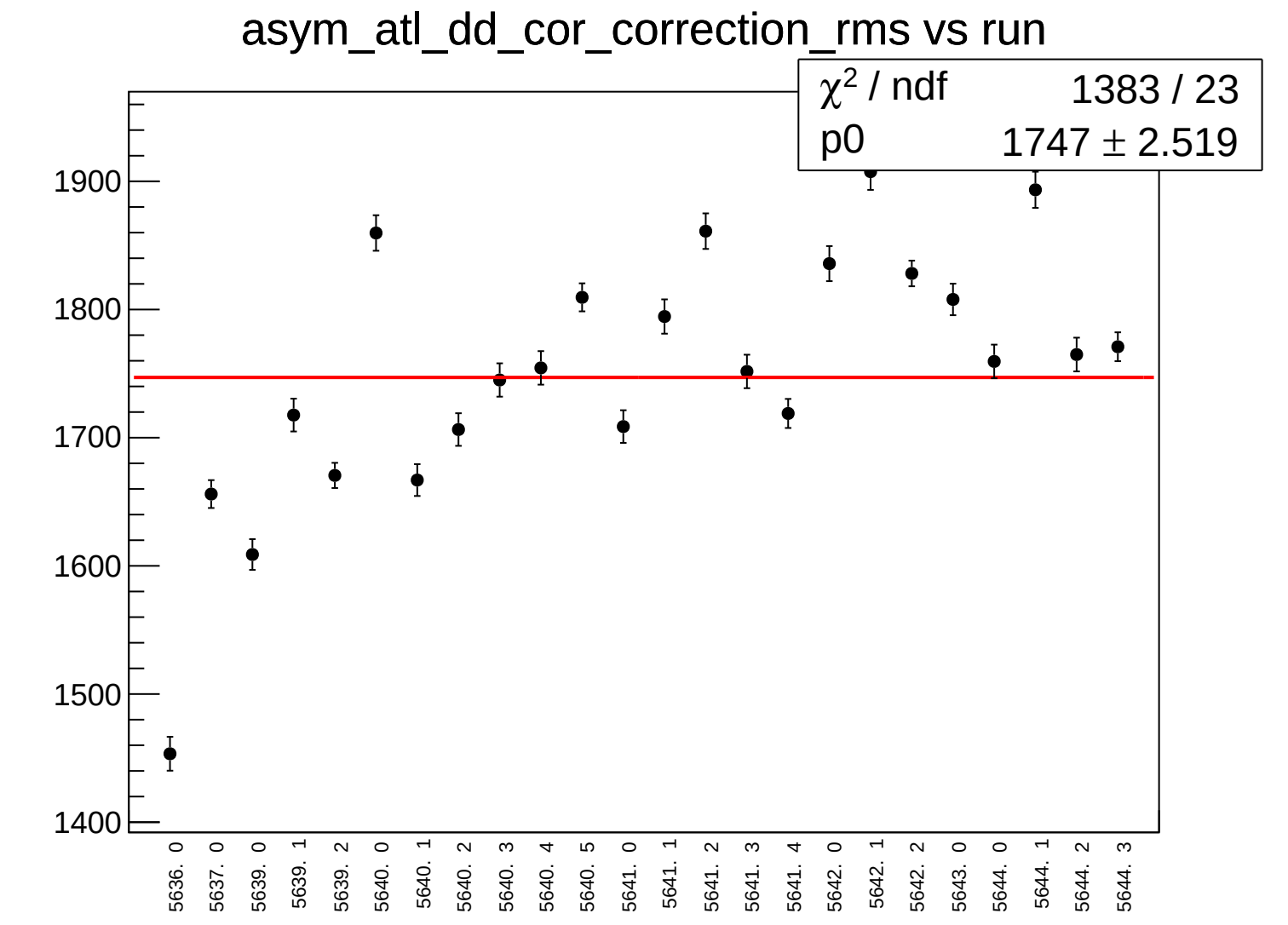
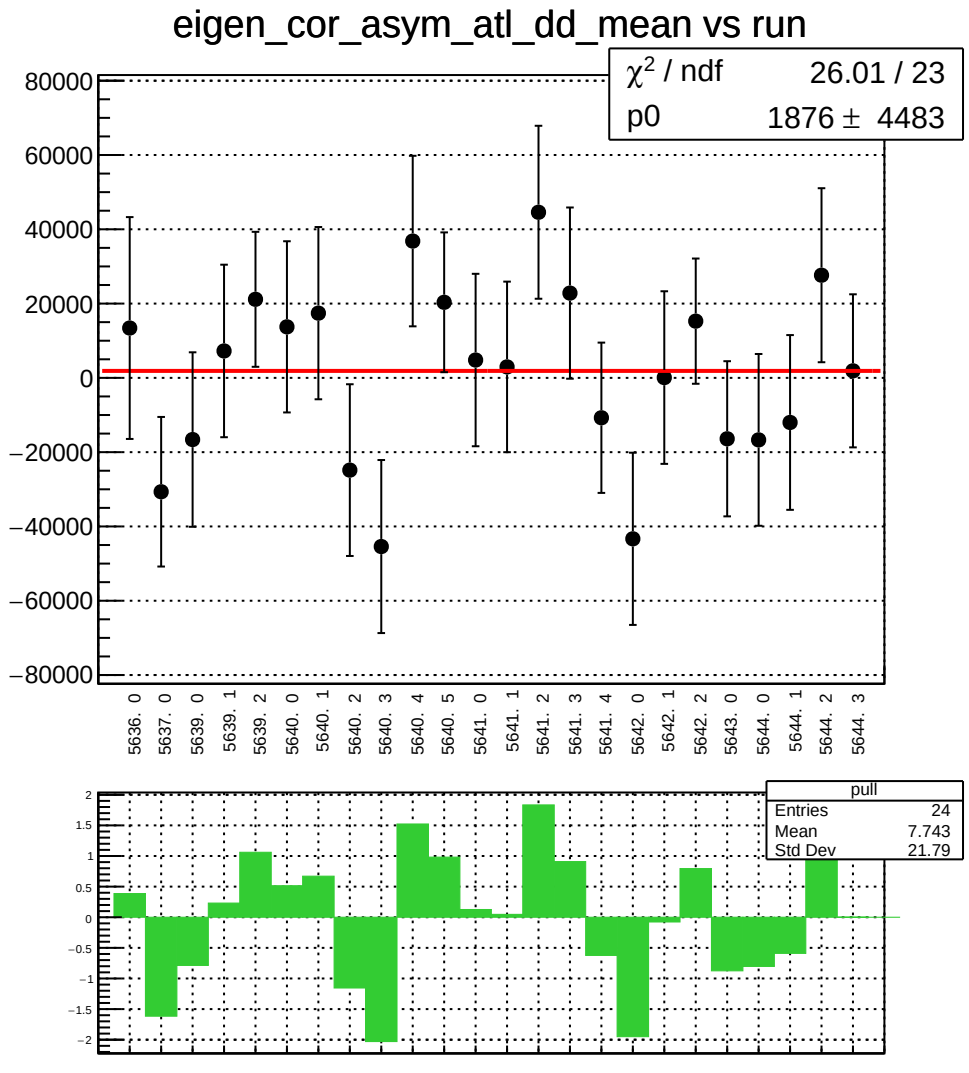
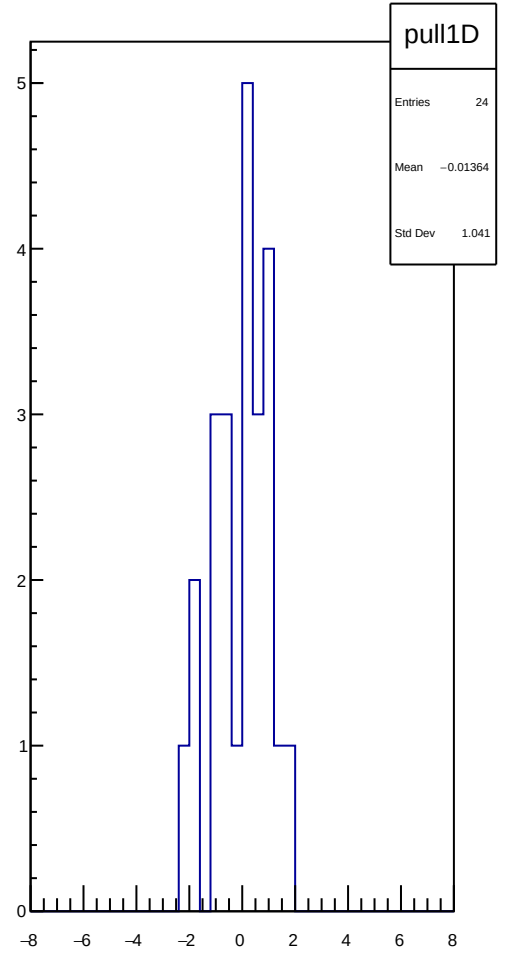
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

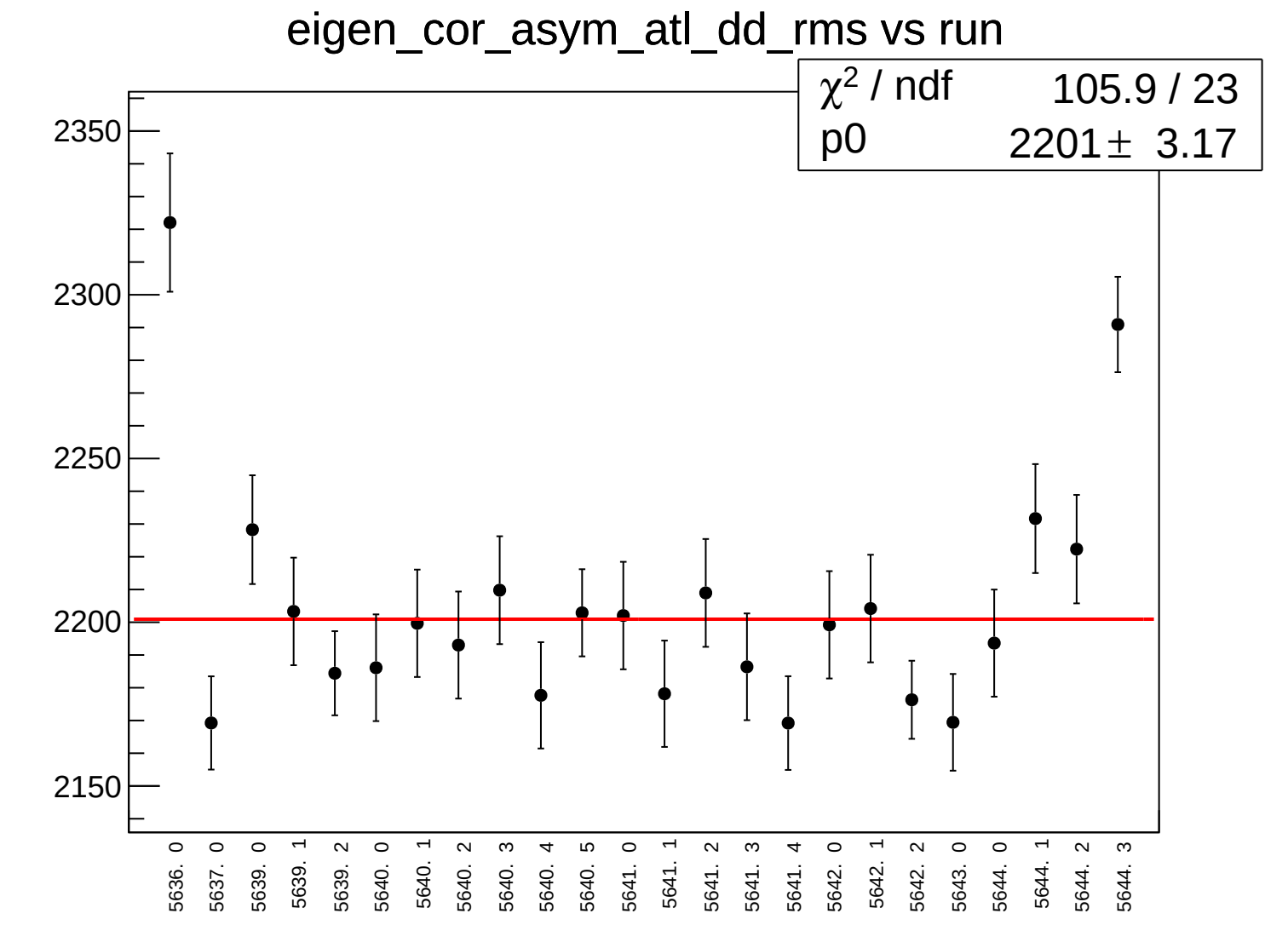

asym_atl_dd_cor_correction_mean vs run
χ² / ndf 13.71 / 23
p0 2476 ± 3563
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −291.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

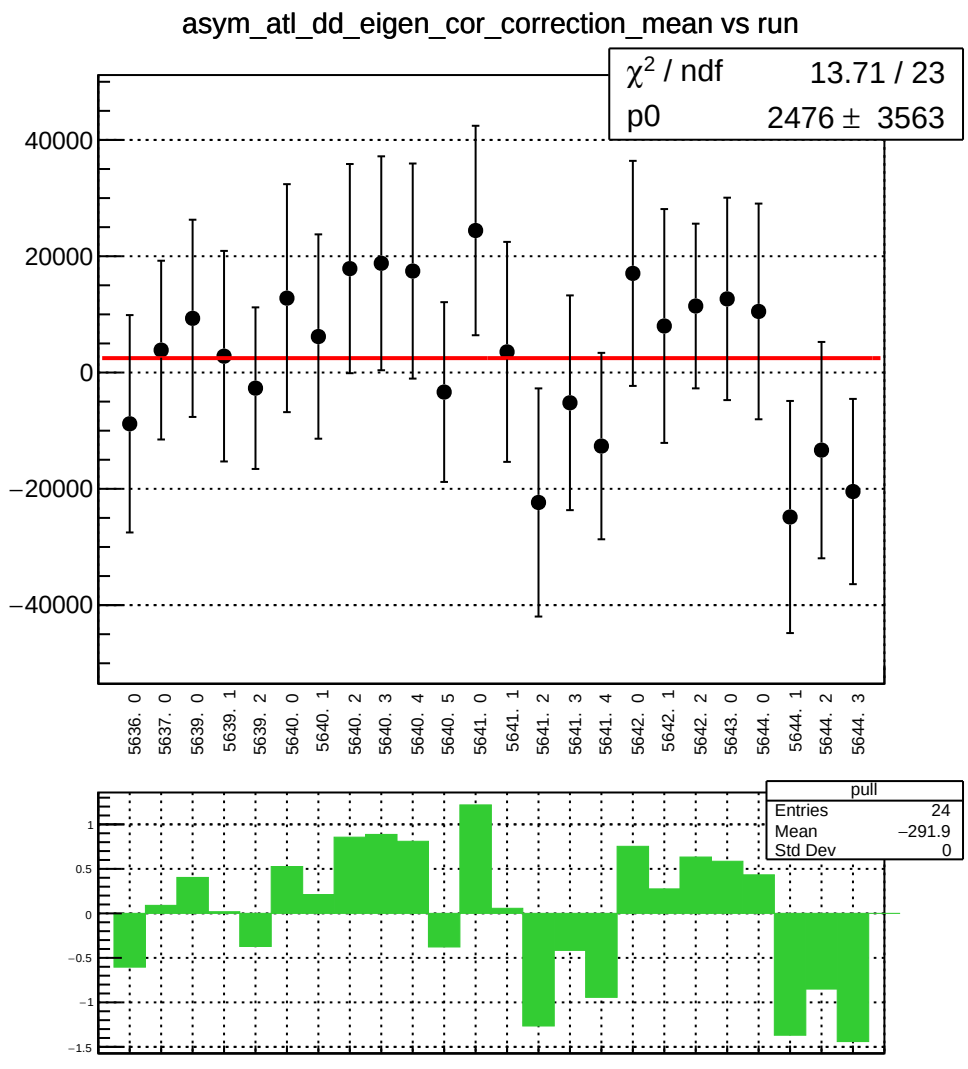

pull1D
Entries 24
Mean 0.004995
Std Dev 0.7558
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

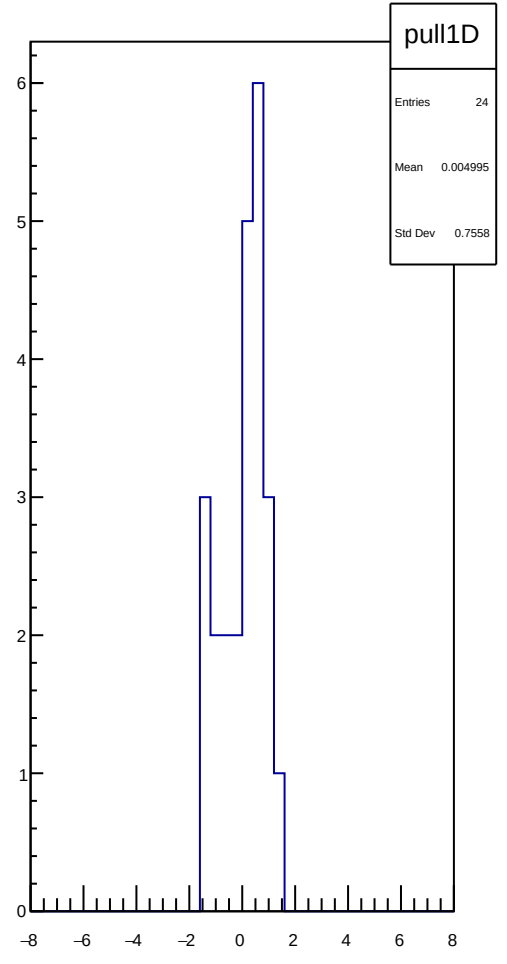

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 1383 / 23
p0 1747 ± 2.519
1900
1800
1700
1600
1500
1400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

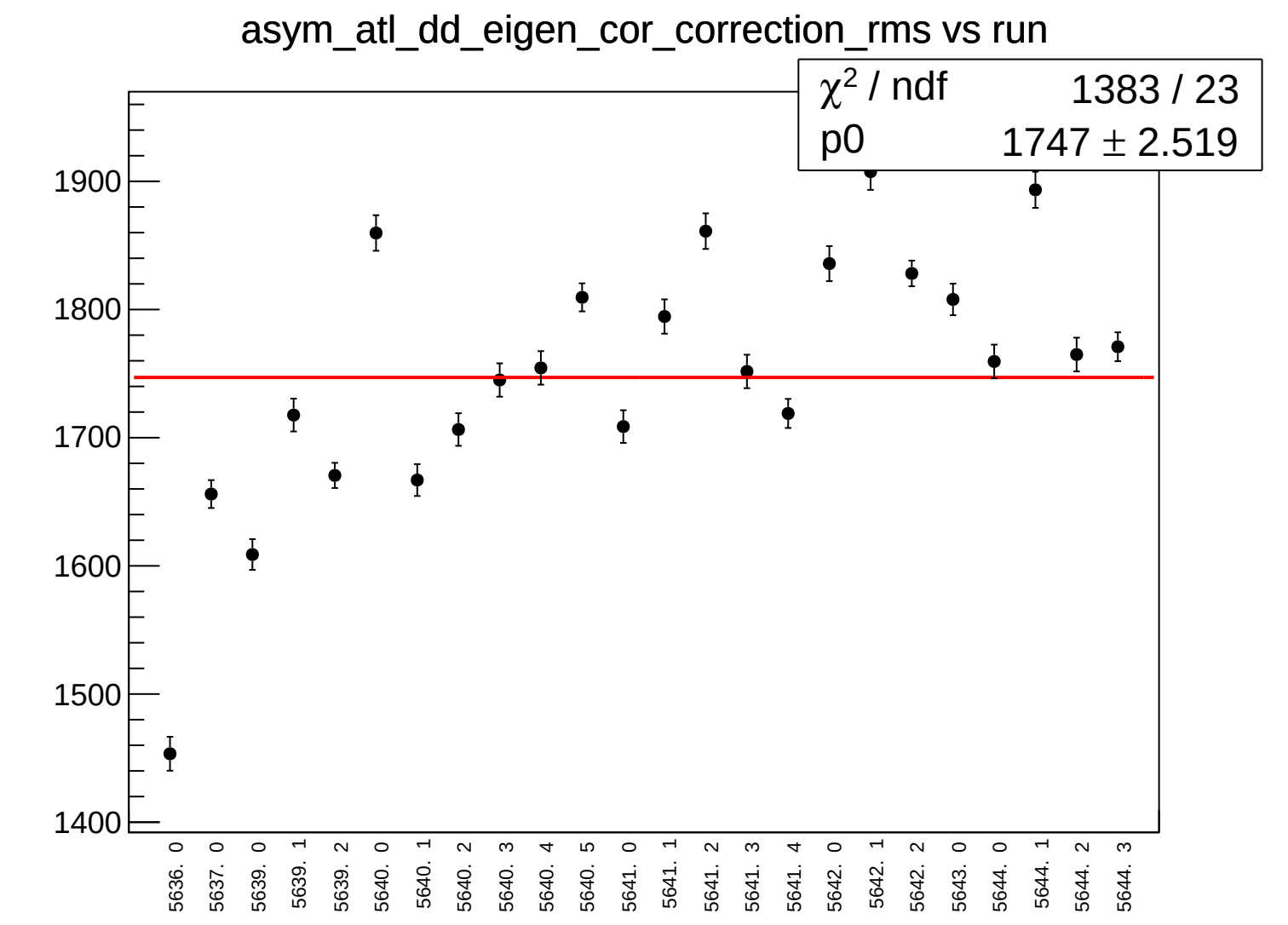

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 26.01 / 23
p0 1876 ± 4483
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 7.743
Std Dev 21.79
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

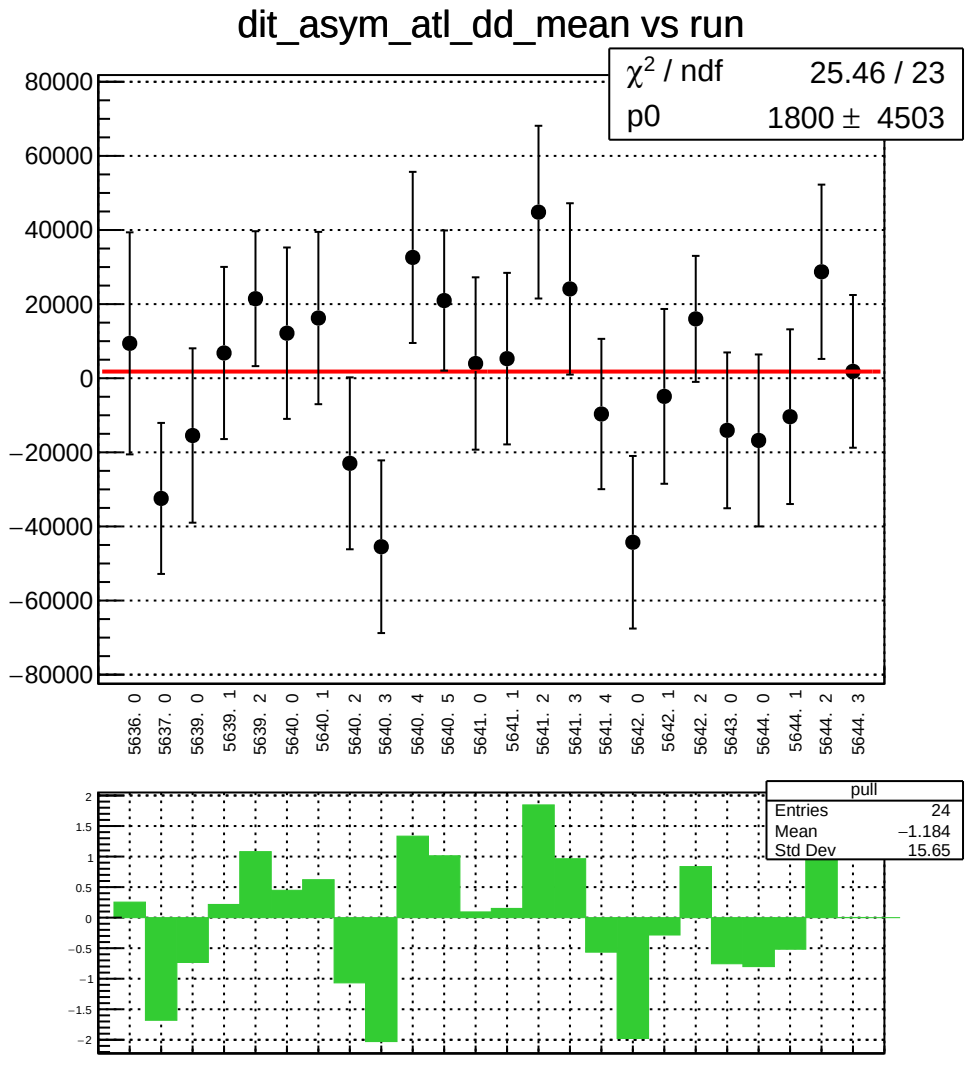

pull1D
Entries 24
Mean −0.01364
Std Dev 1.041
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

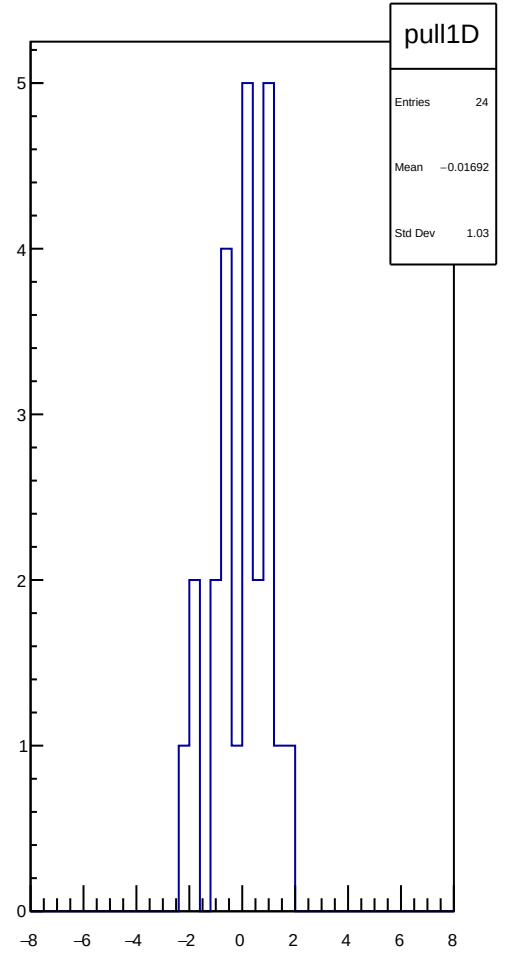

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 105.9 / 23
p0 2201 ± 3.17
2350
2300
2250
2200
2150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

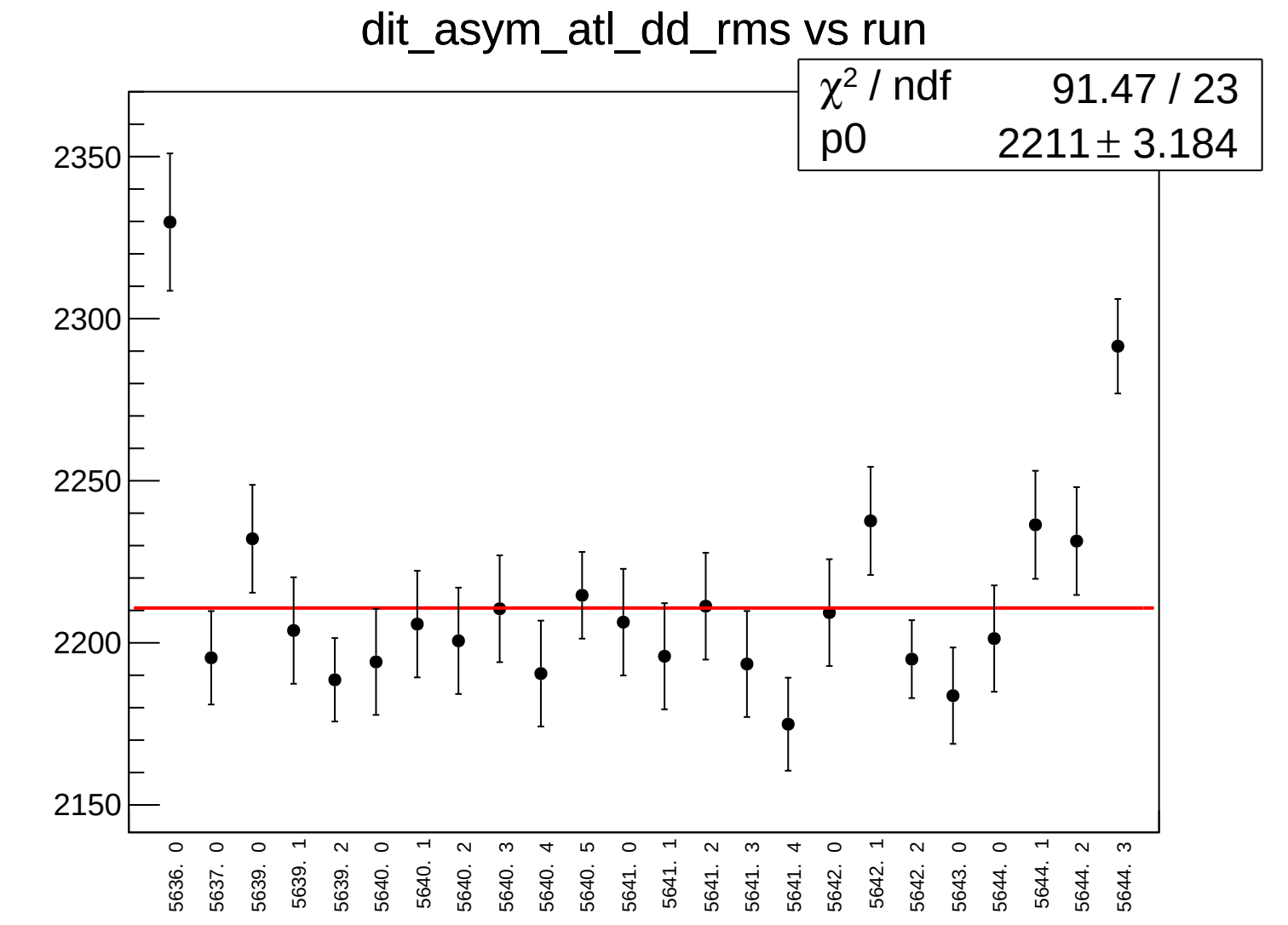

asym_atl_dd_eigen_cor_correction_mean vs run
χ² / ndf 13.71 / 23
p0 2476 ± 3563
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −291.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

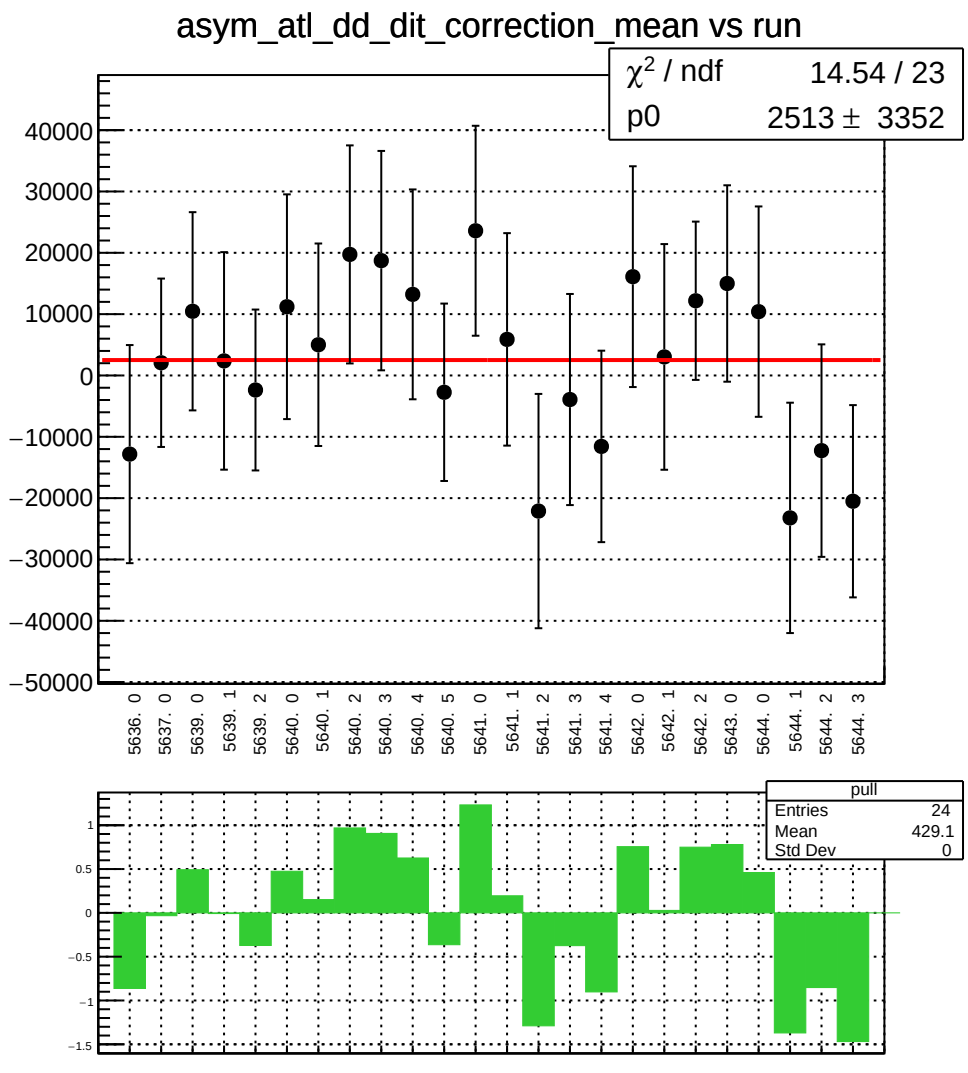

pull1D
Entries 24
Mean 0.004995
Std Dev 0.7558
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

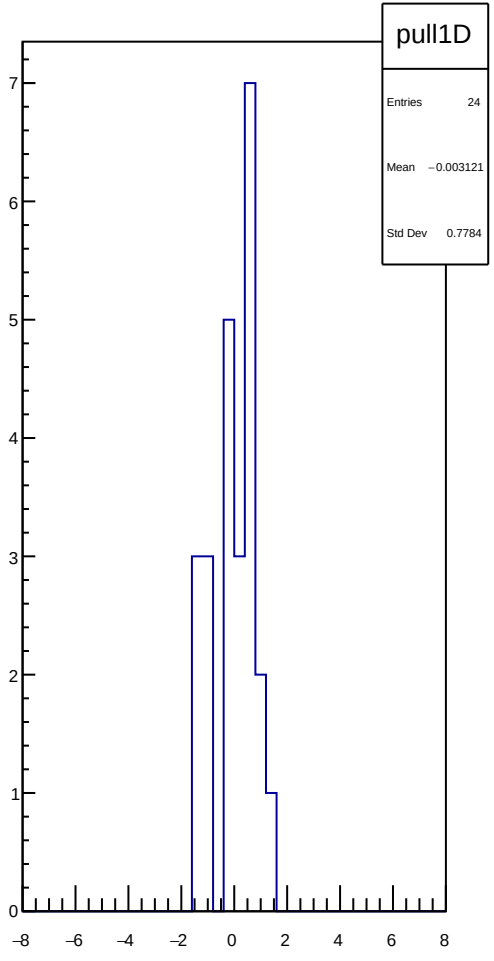

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 1383 / 23
p0 1747 ± 2.519
1900
1800
1700
1600
1500
1400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

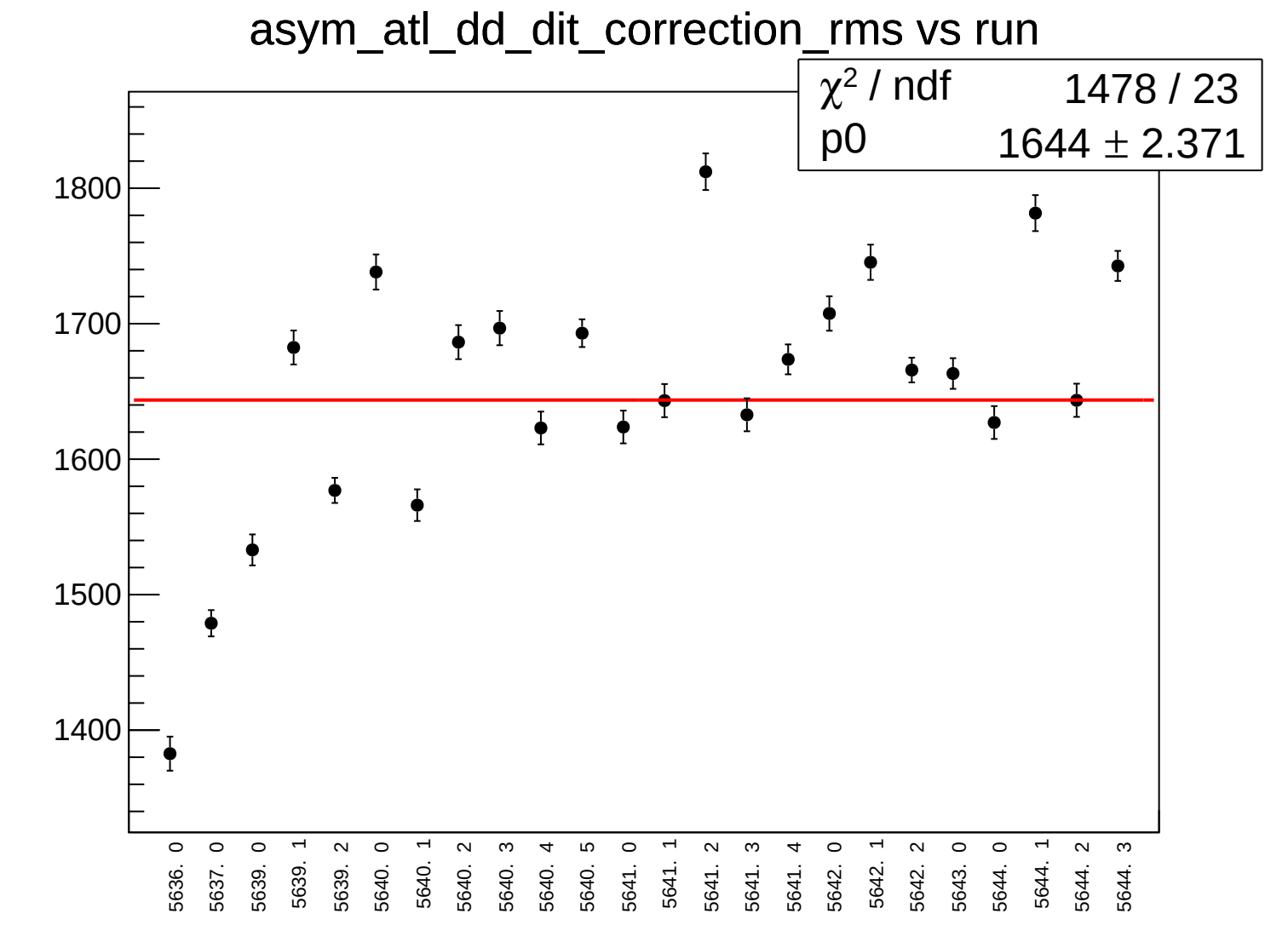

dit_asym_atl_dd_mean vs run
χ² / ndf 25.46 / 23
p0 1800 ± 4503
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −1.184
Std Dev 15.65
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

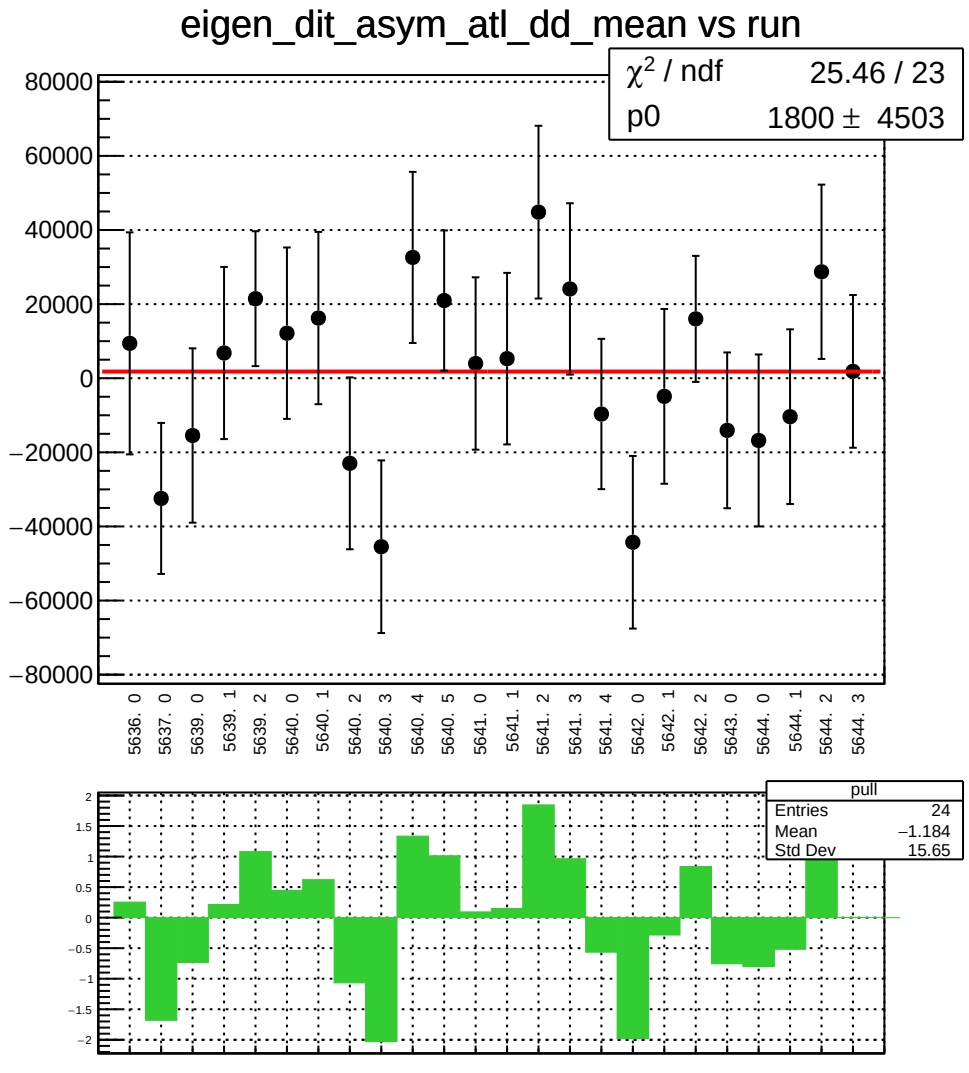

pull1D
Entries 24
Mean −0.01692
Std Dev 1.03
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

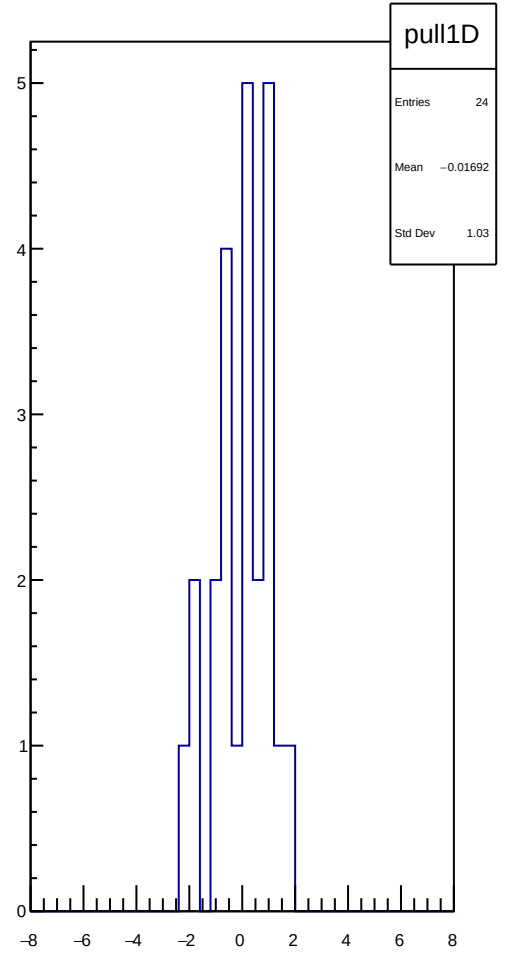

dit_asym_atl_dd_rms vs run
χ^2 / ndf 91.47 / 23
p0 2211 ± 3.184
2350
2300
2250
2200
2150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

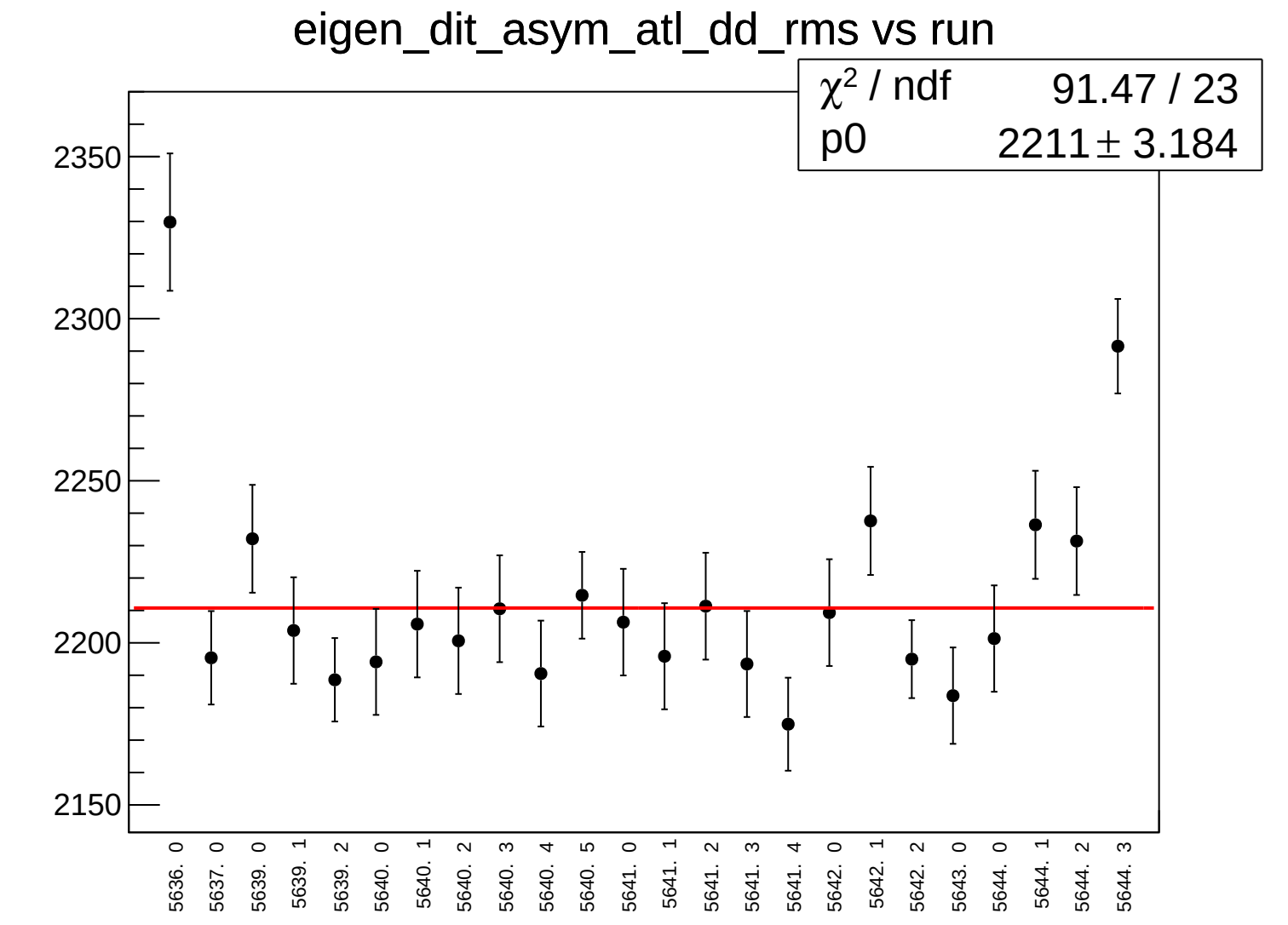

asym_atl_dd_dit_correction_mean vs run
χ² / ndf 14.54 / 23
p0 2513 ± 3352
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 429.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean −0.003121
Std Dev 0.7784
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_dit_correction_rms vs run
χ² / ndf 1478 / 23
p0 1644 ± 2.371
1800
1700
1600
1500
1400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 25.46 / 23
p0 1800 ± 4503
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −1.184
Std Dev 15.65
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.01692
Std Dev 1.03
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 91.47 / 23
p0 2211 ± 3.184
2350
2300
2250
2200
2150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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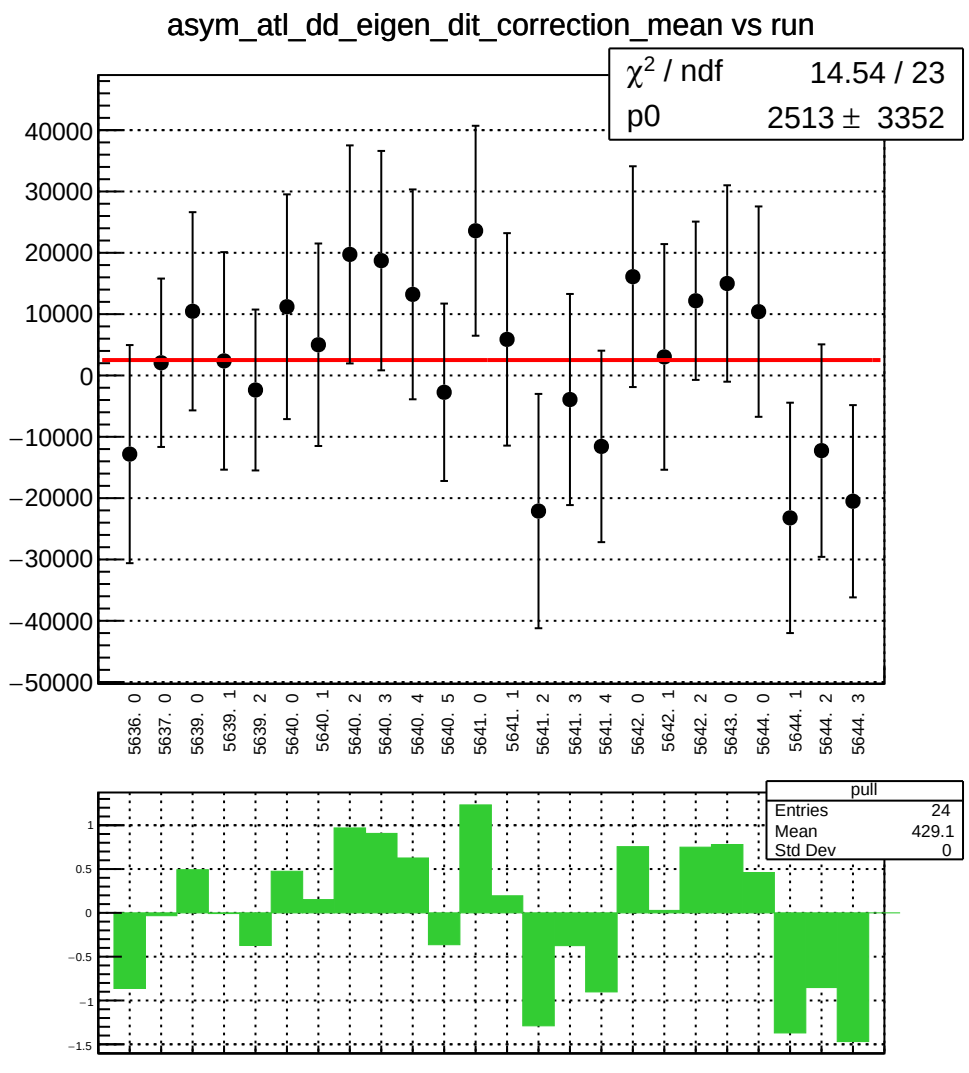
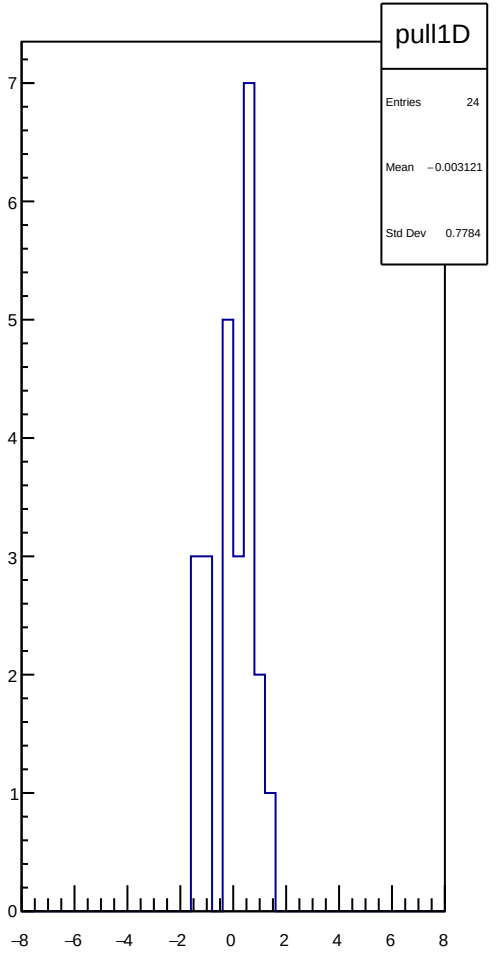
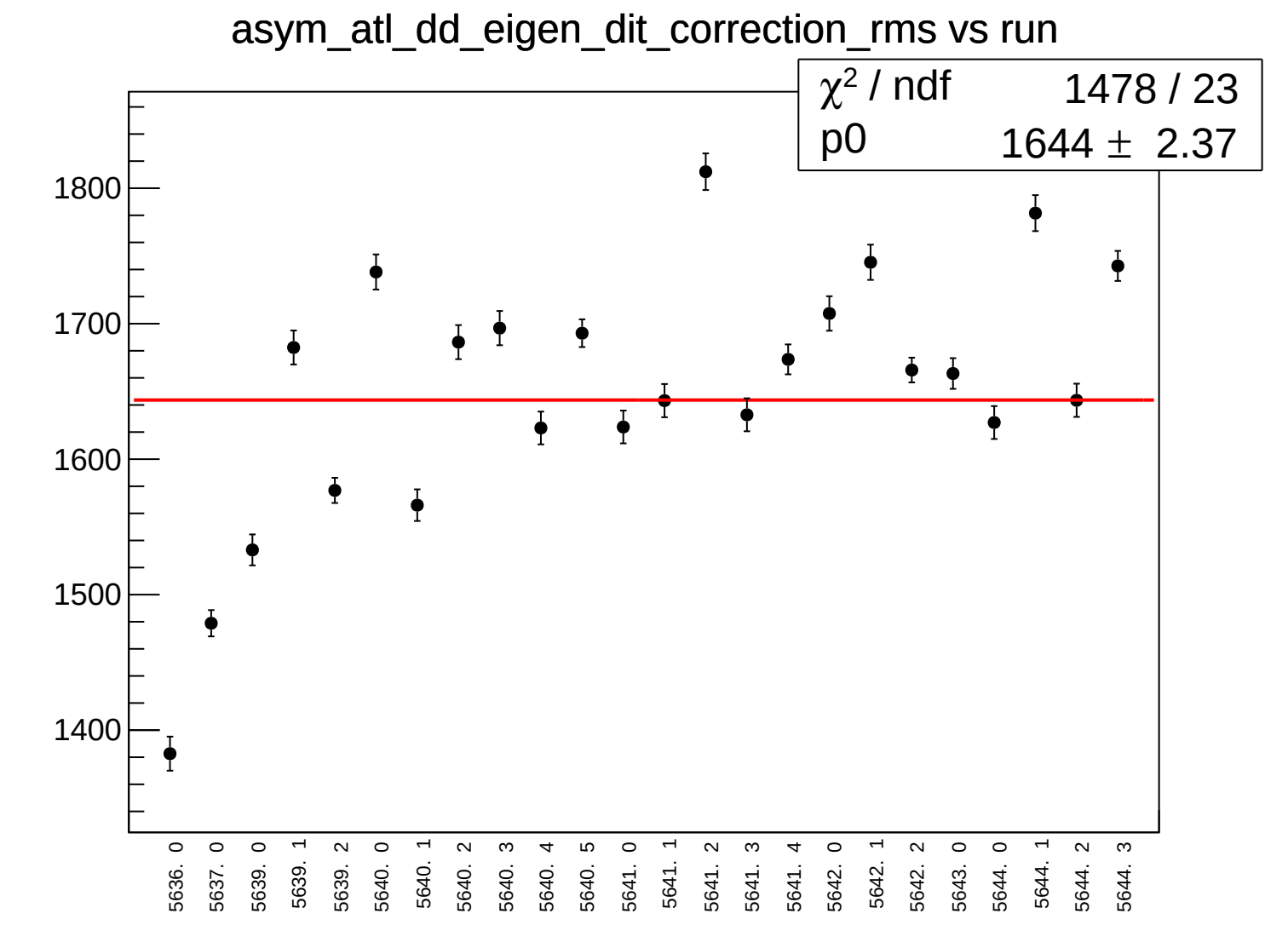
5644. 2
5644. 3


asym_atl_dd_eigen_dit_correction_mean vs run
χ² / ndf 14.54 / 23
p0 2513 ± 3352
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 429.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean −0.003121
Std Dev 0.7784
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 1478 / 23
p0 1644 ± 2.37
1800
1700
1600
1500
1400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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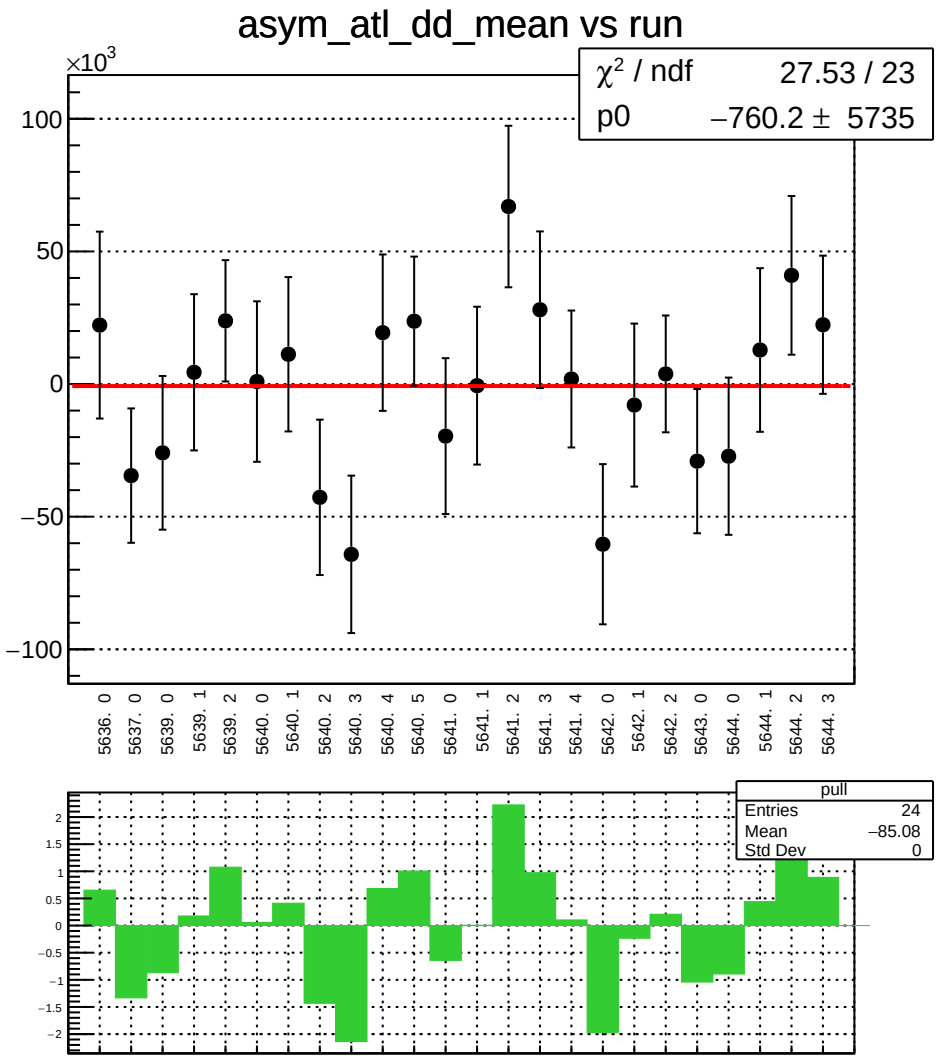
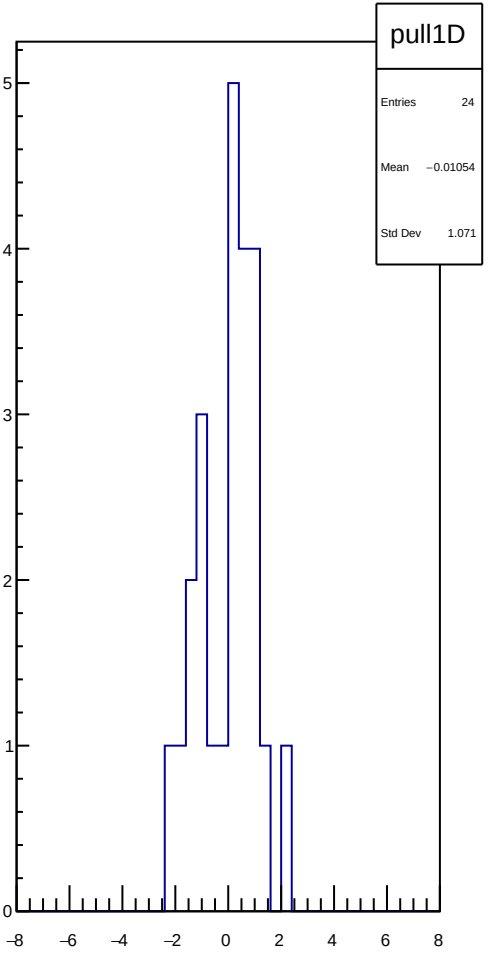
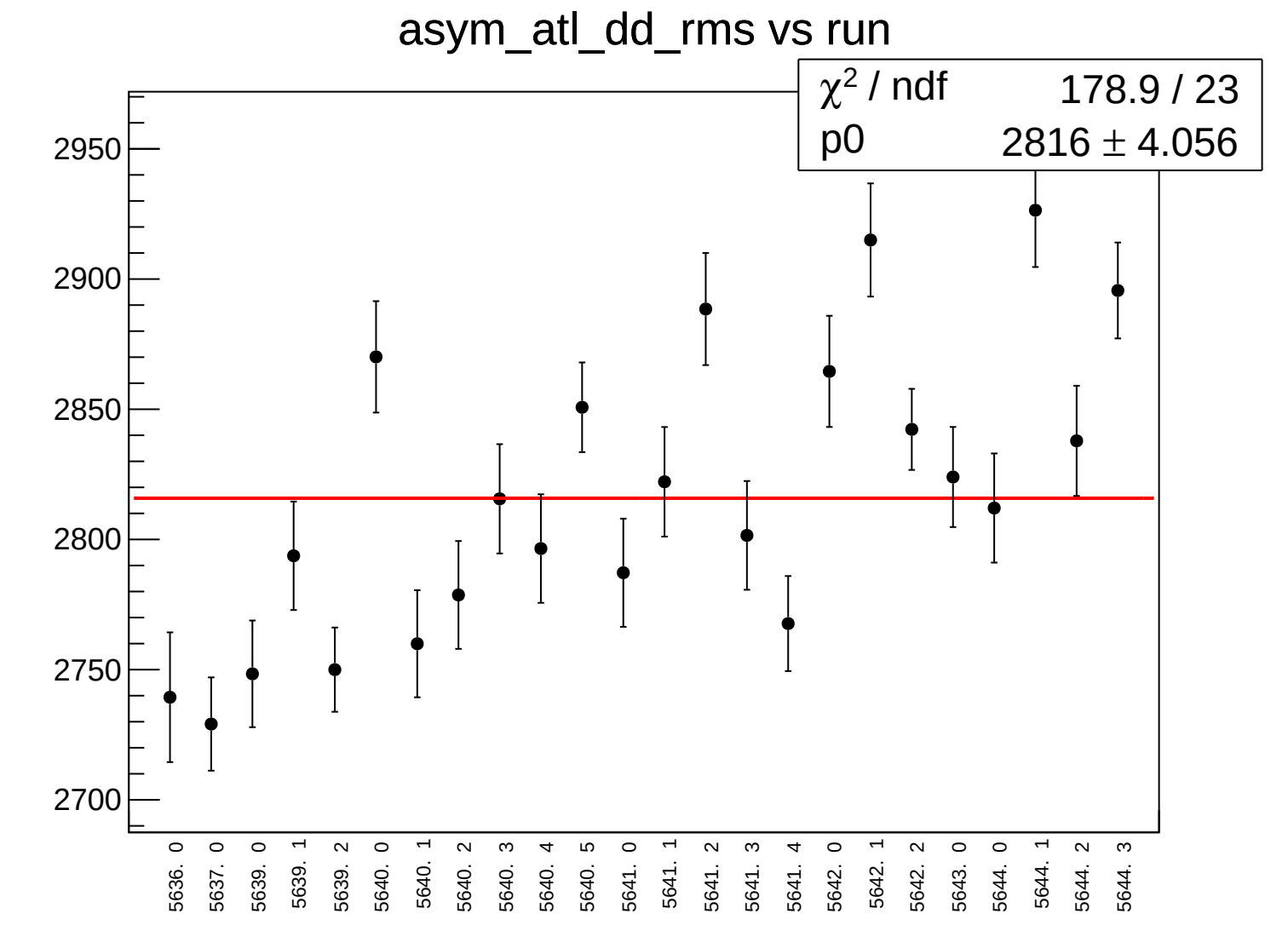
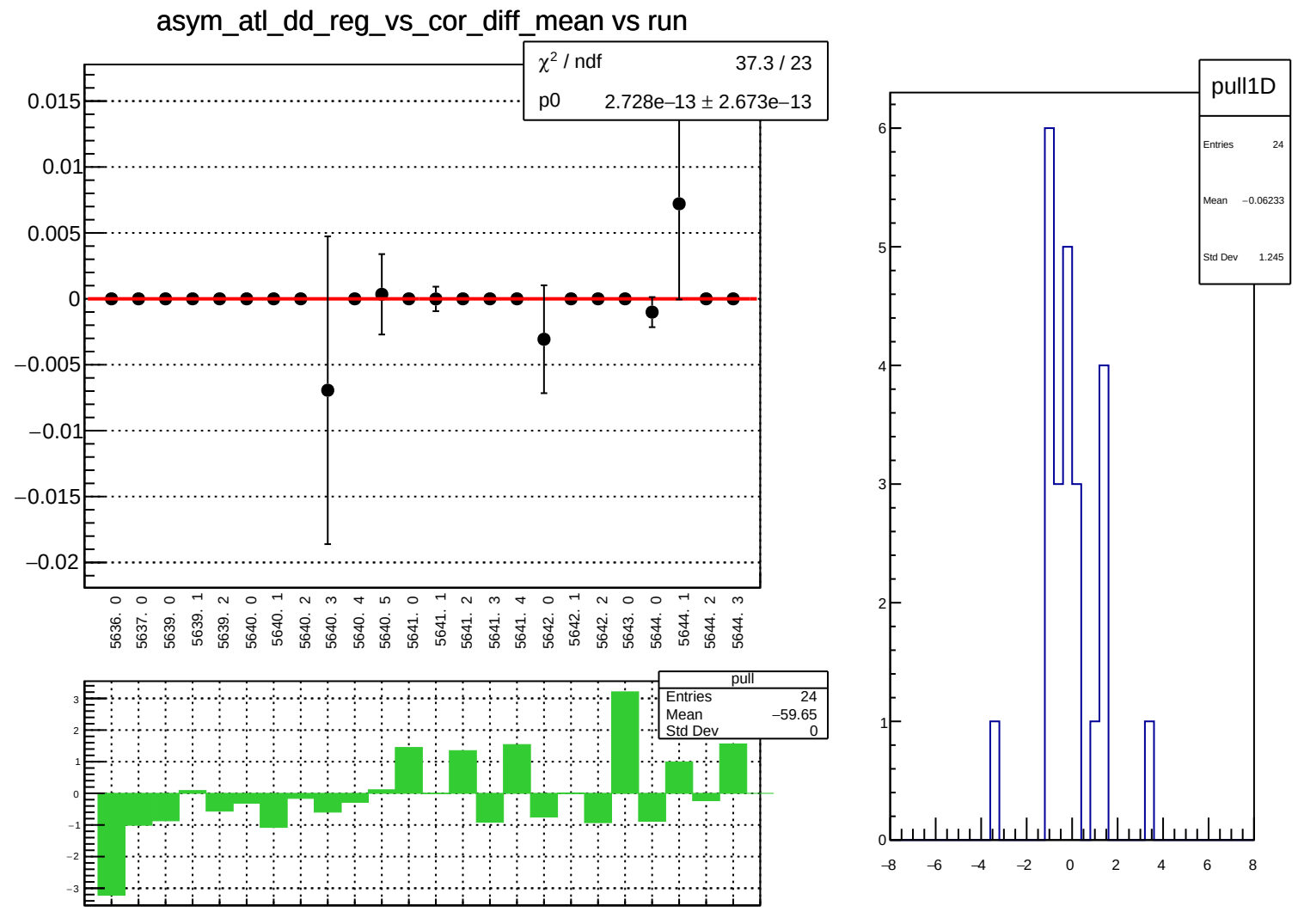
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

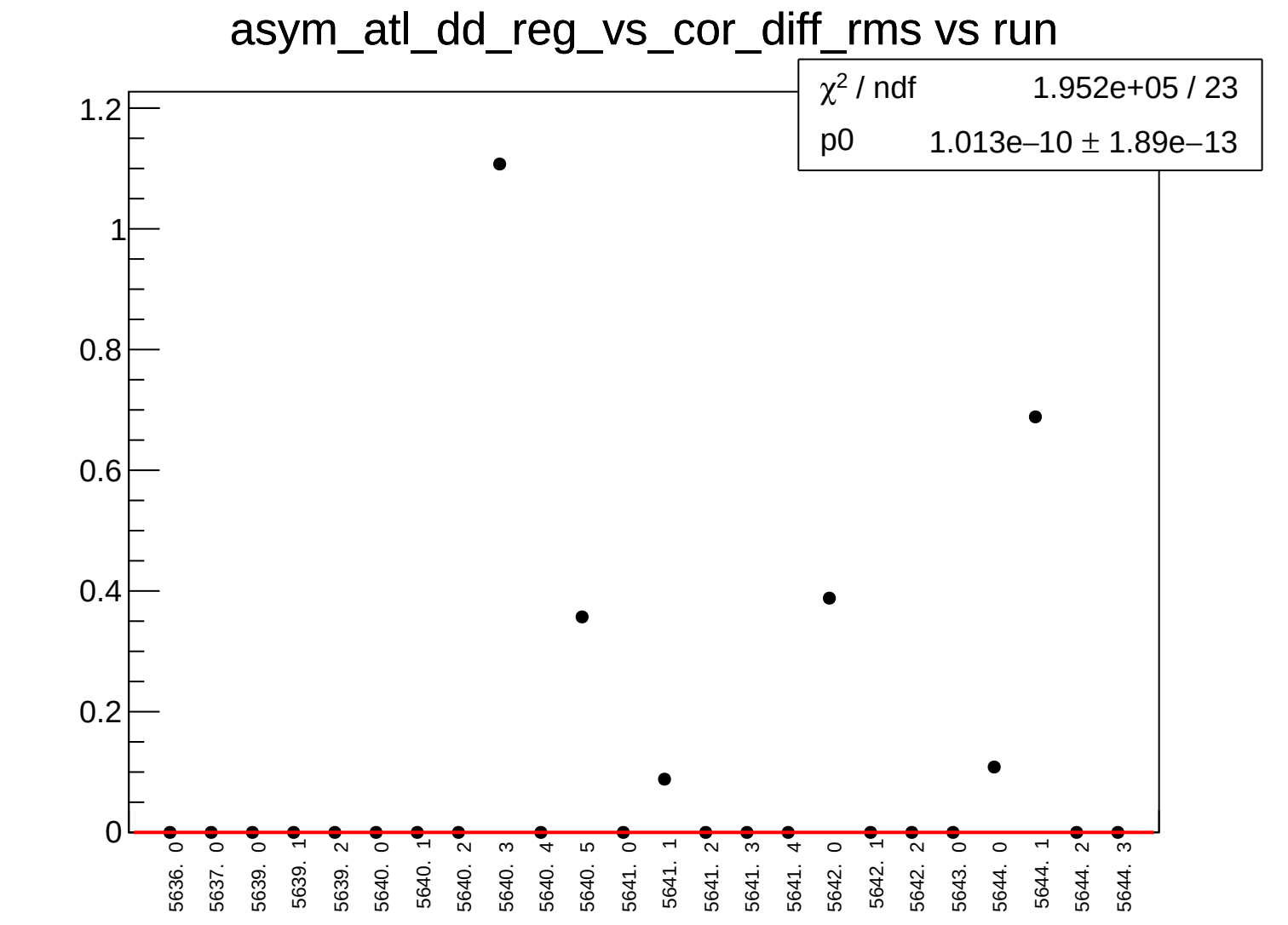

asym_atl_dd_mean vs run
×10^3
χ² / ndf 27.53 / 23
p0 −760.2 ± 5735
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

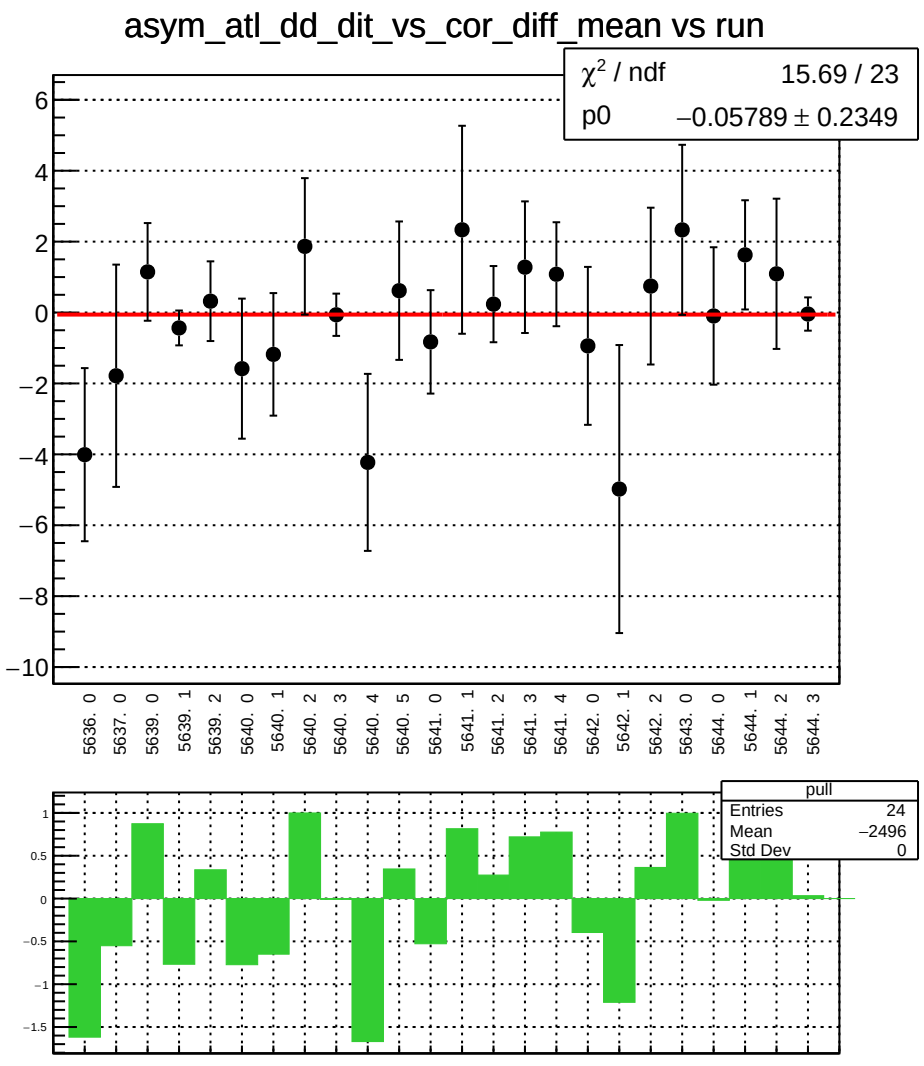
pull
Entries 24
Mean −85.08
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

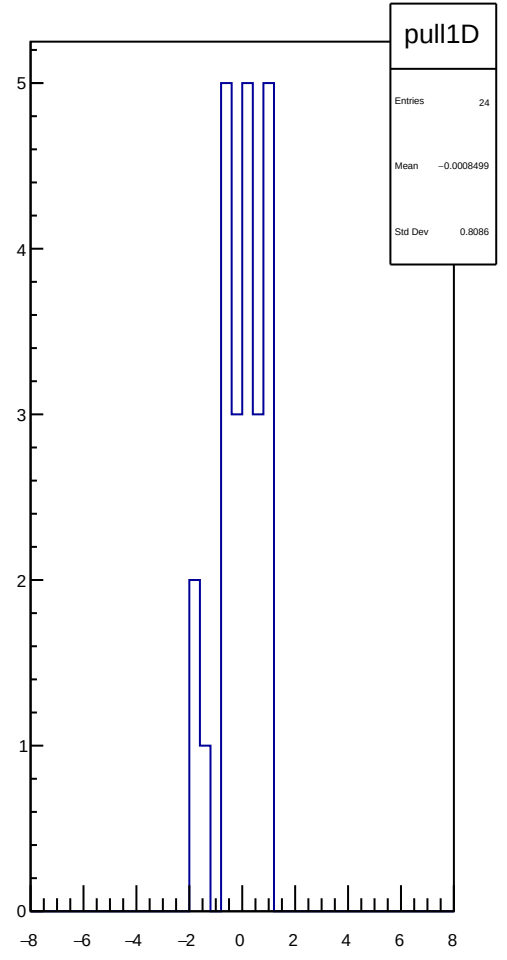

pull1D
Entries 24
Mean −0.01054
Std Dev 1.071
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

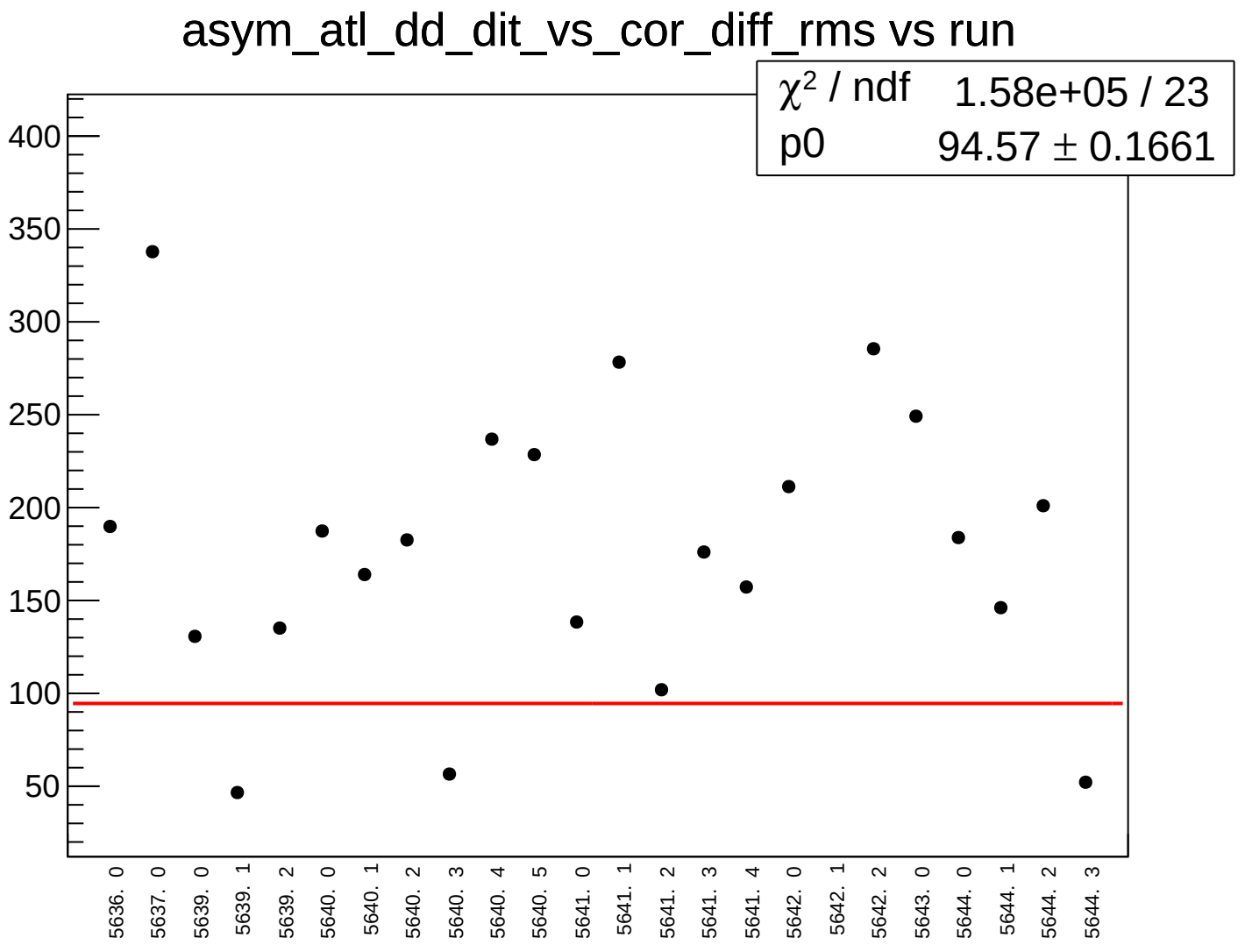

asym_atl_dd_rms vs run
χ² / ndf 178.9 / 23
p0 2816 ± 4.056
2950
2900
2850
2800
2750
2700
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

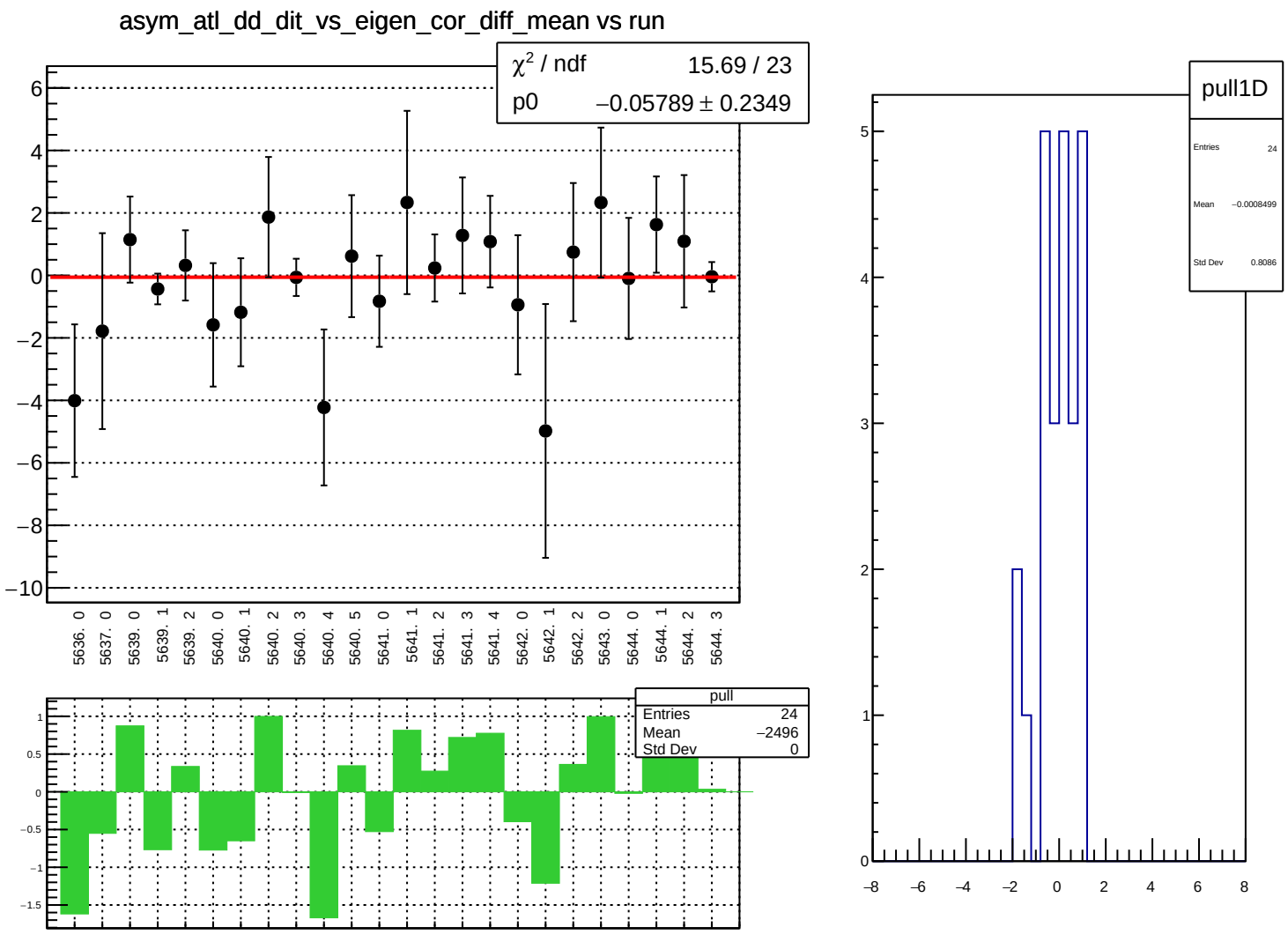

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 37.3 / 23
p0 2.728e−13 ± 2.673e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −59.65
Std Dev 0
pull1D
Entries 24
Mean −0.06233
Std Dev 1.245

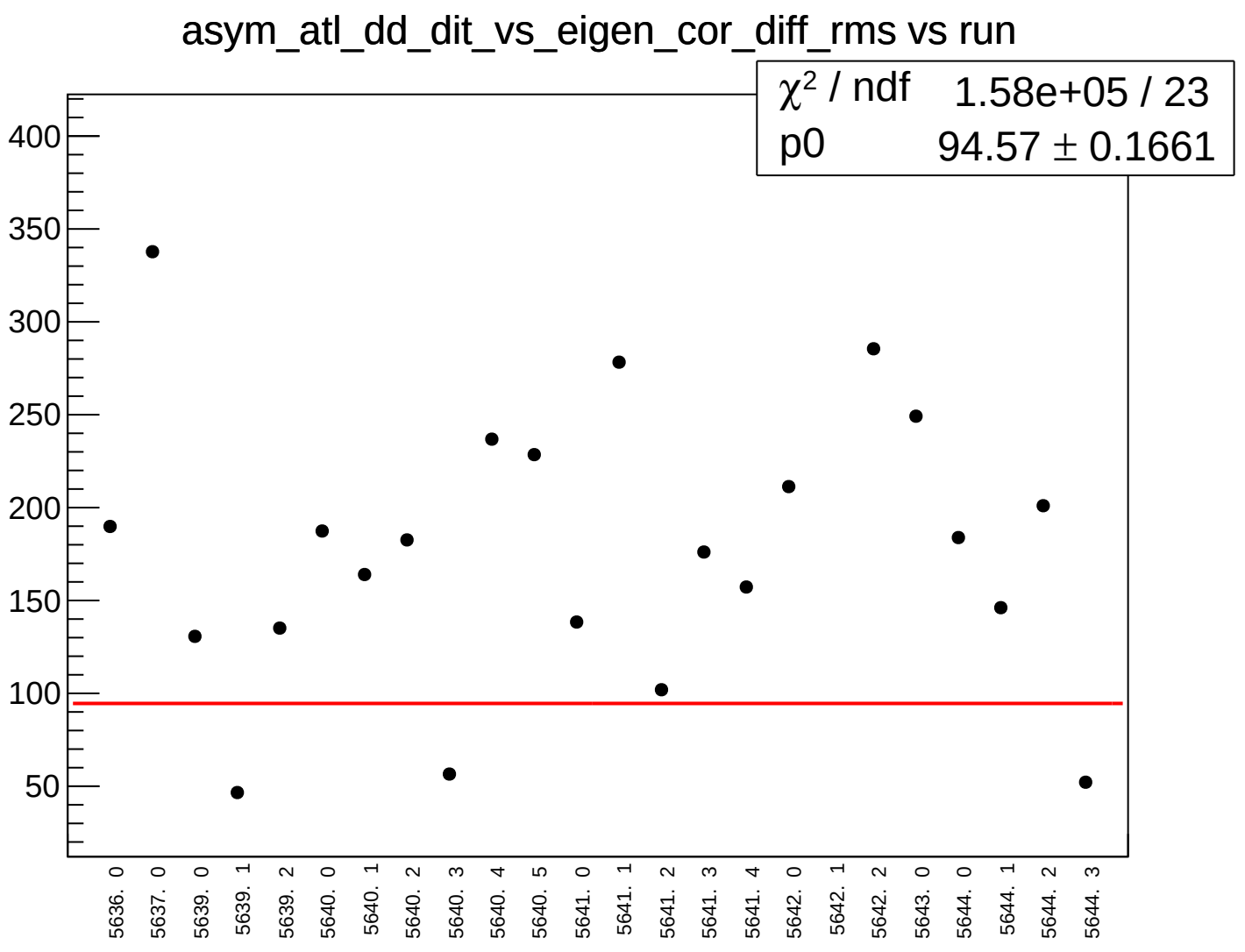

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.952e+05 / 23
p0 1.013e−10 ± 1.89e−13
1.2
1
0.8
0.6
0.4
0.2
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

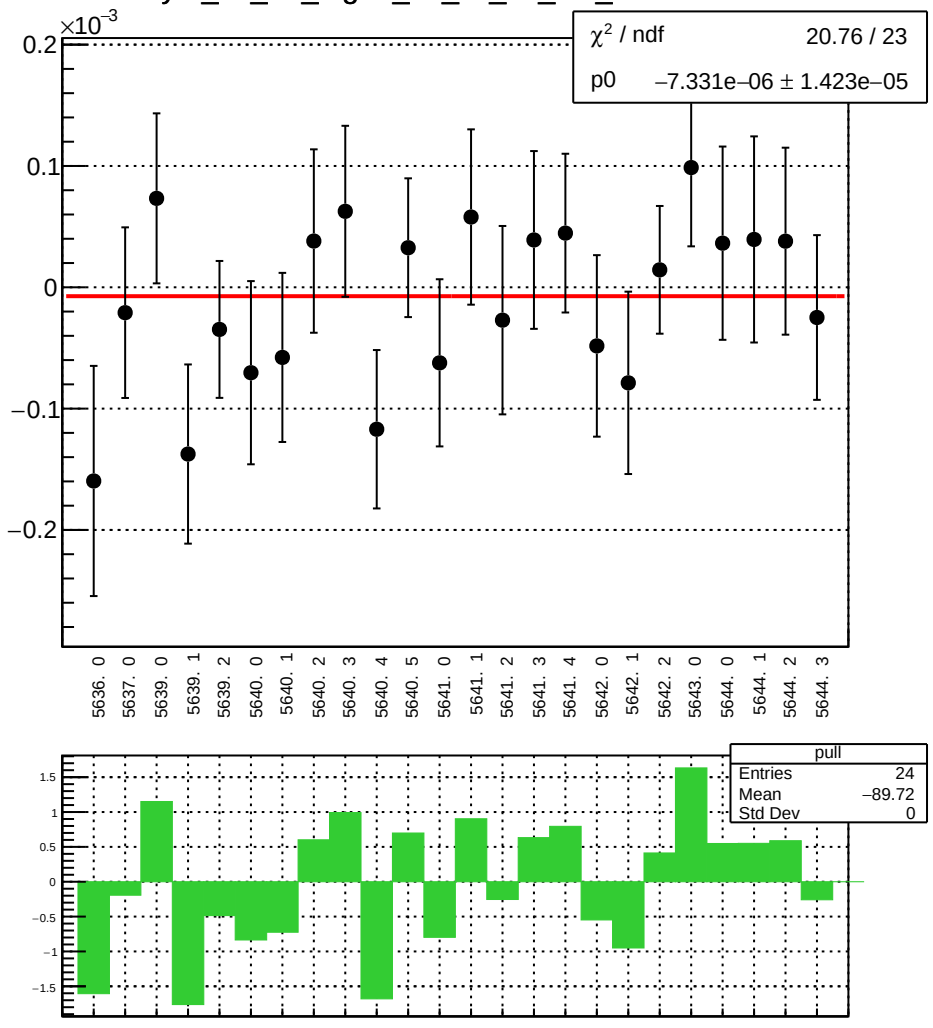

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 15.69 / 23
p0 −0.05789 ± 0.2349
6
4
2
0
−2
−4
−6
−8
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −2496
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

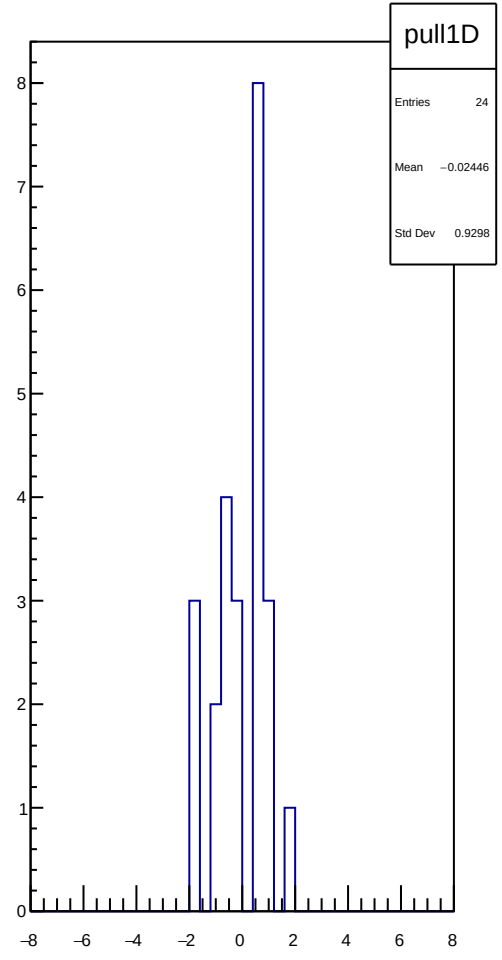

pull1D
Entries 24
Mean −0.0008499
Std Dev 0.8086
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

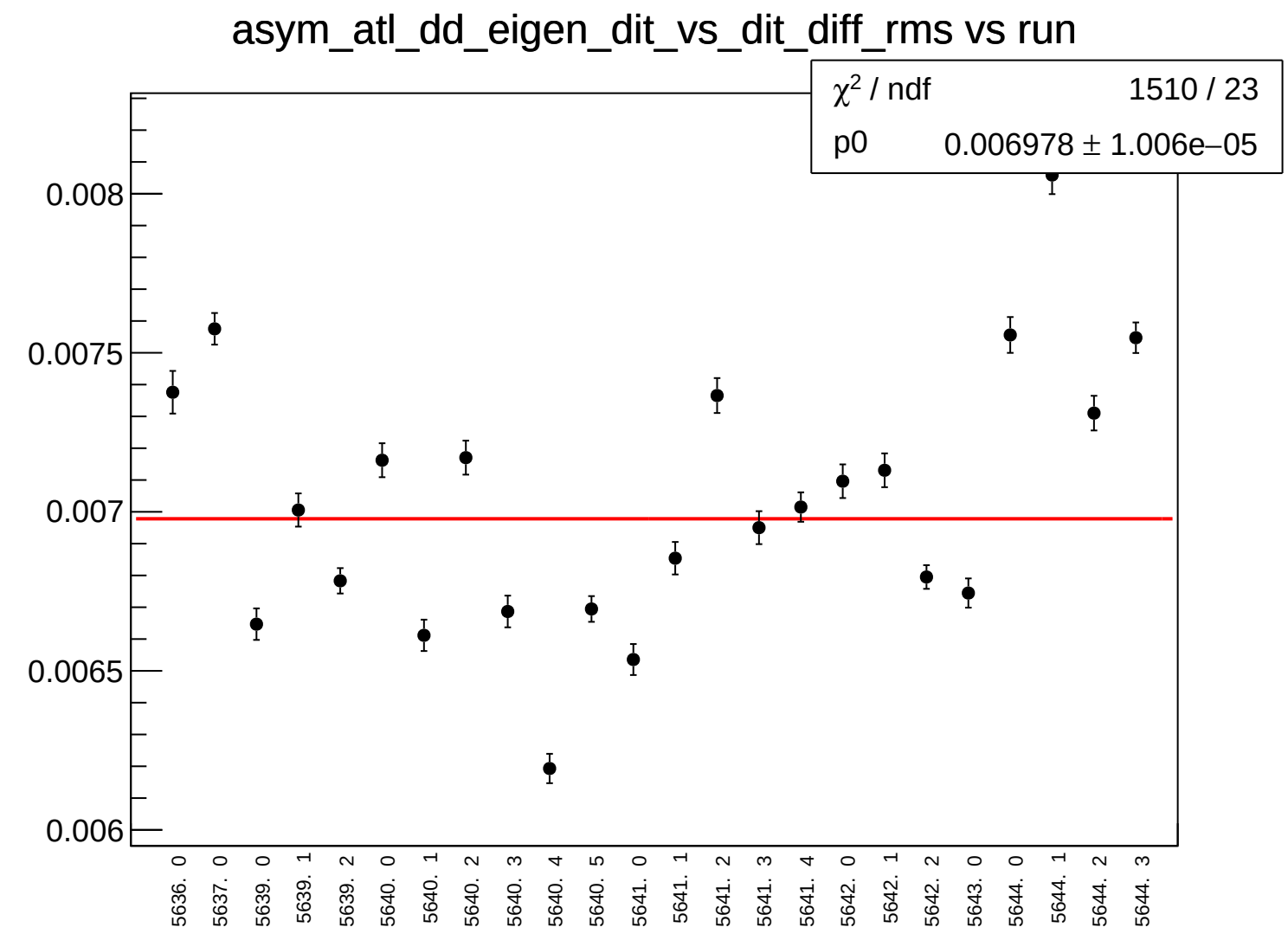

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.58e+05 / 23
p0 94.57 ± 0.1661
400
350
300
250
200
150
100
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

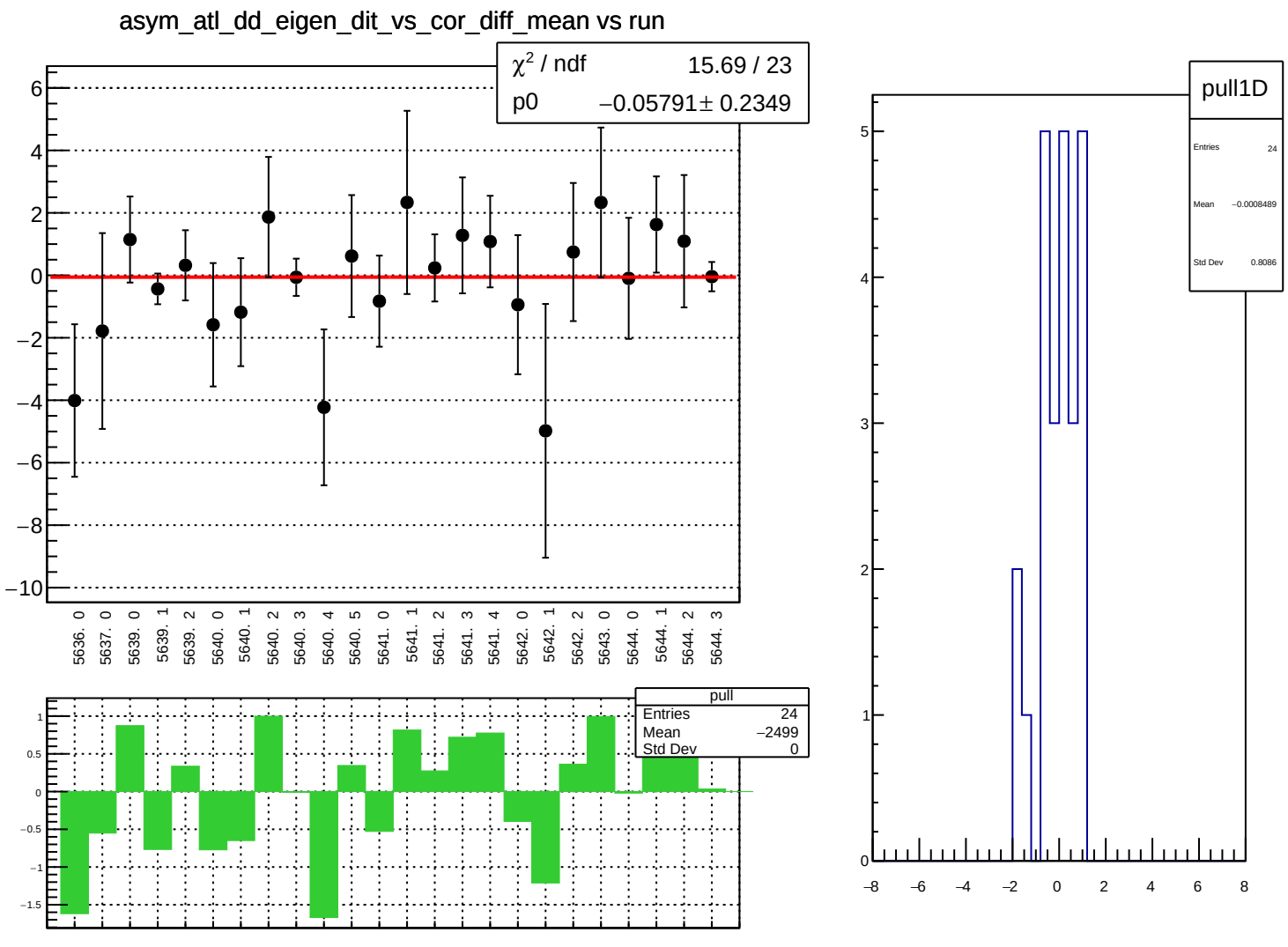

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 15.69 / 23
p0 −0.05789 ± 0.2349
6
4
2
0
−2
−4
−6
−8
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −2496
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.0008499
Std Dev 0.8086
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

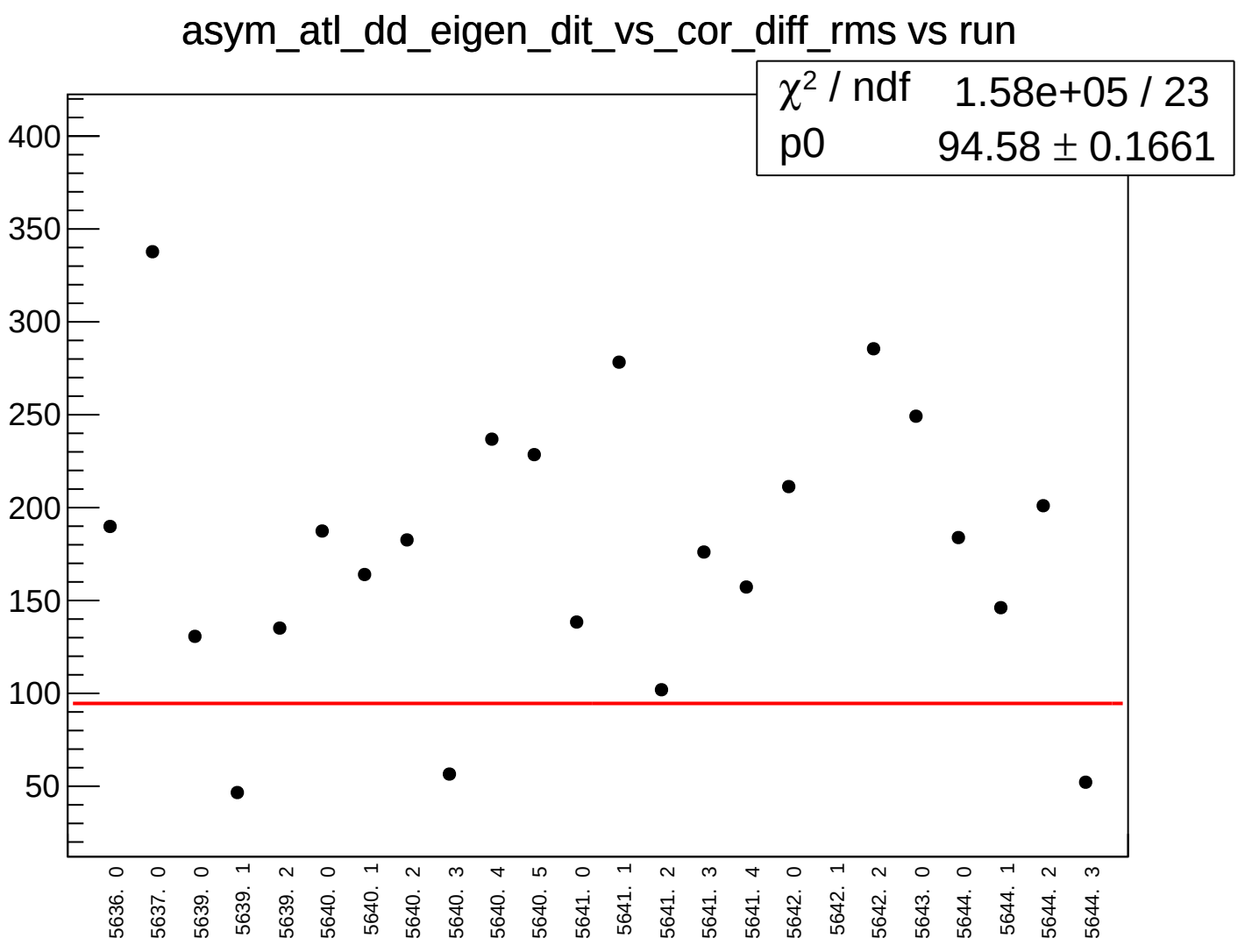

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.58e+05 / 23
p0 94.57 ± 0.1661
400
350
300
250
200
150
100
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

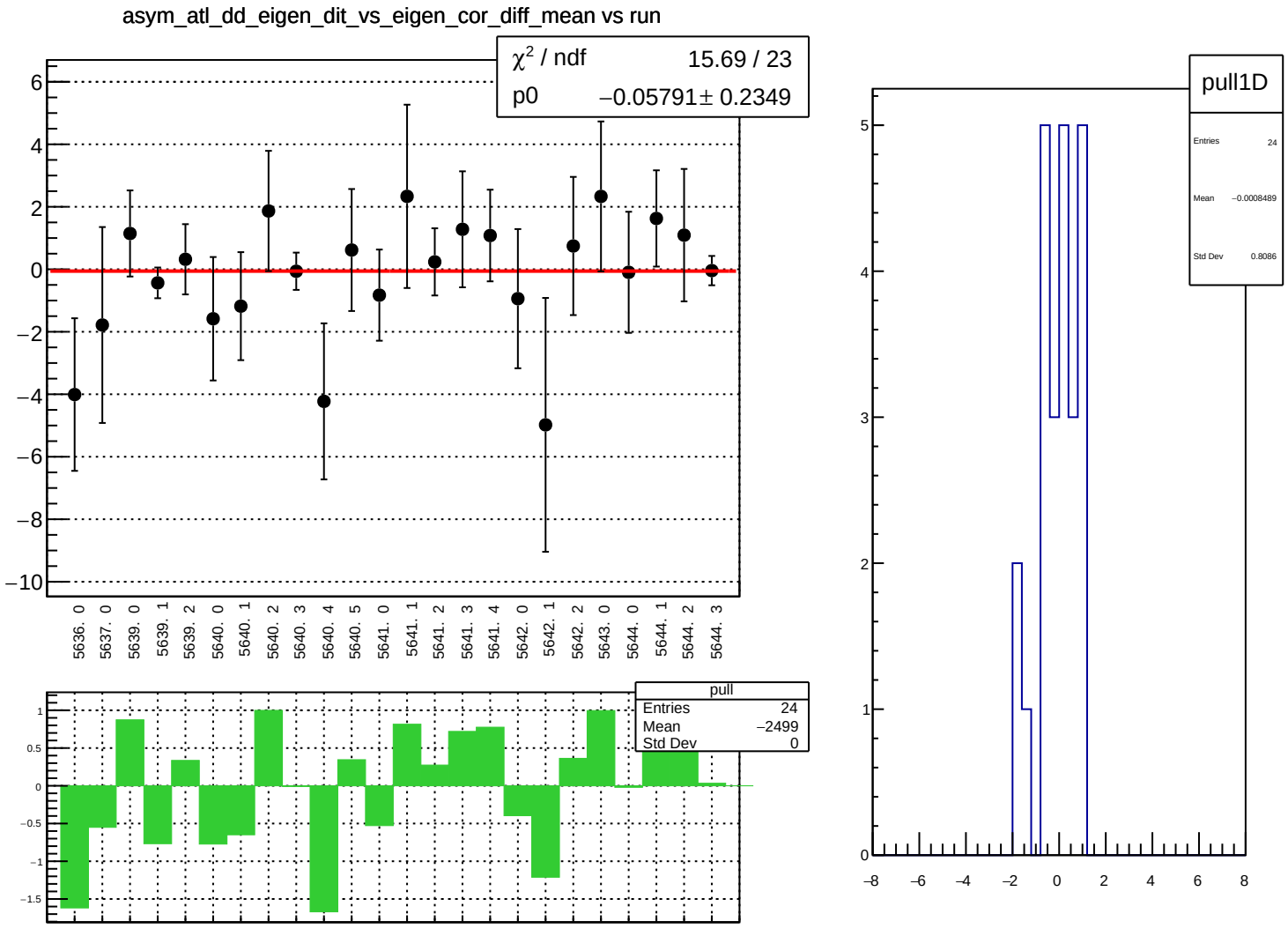

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 20.76 / 23
p0 −7.331e−06 ± 1.423e−05
0.2
0.1
0
−0.1
−0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −89.72
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

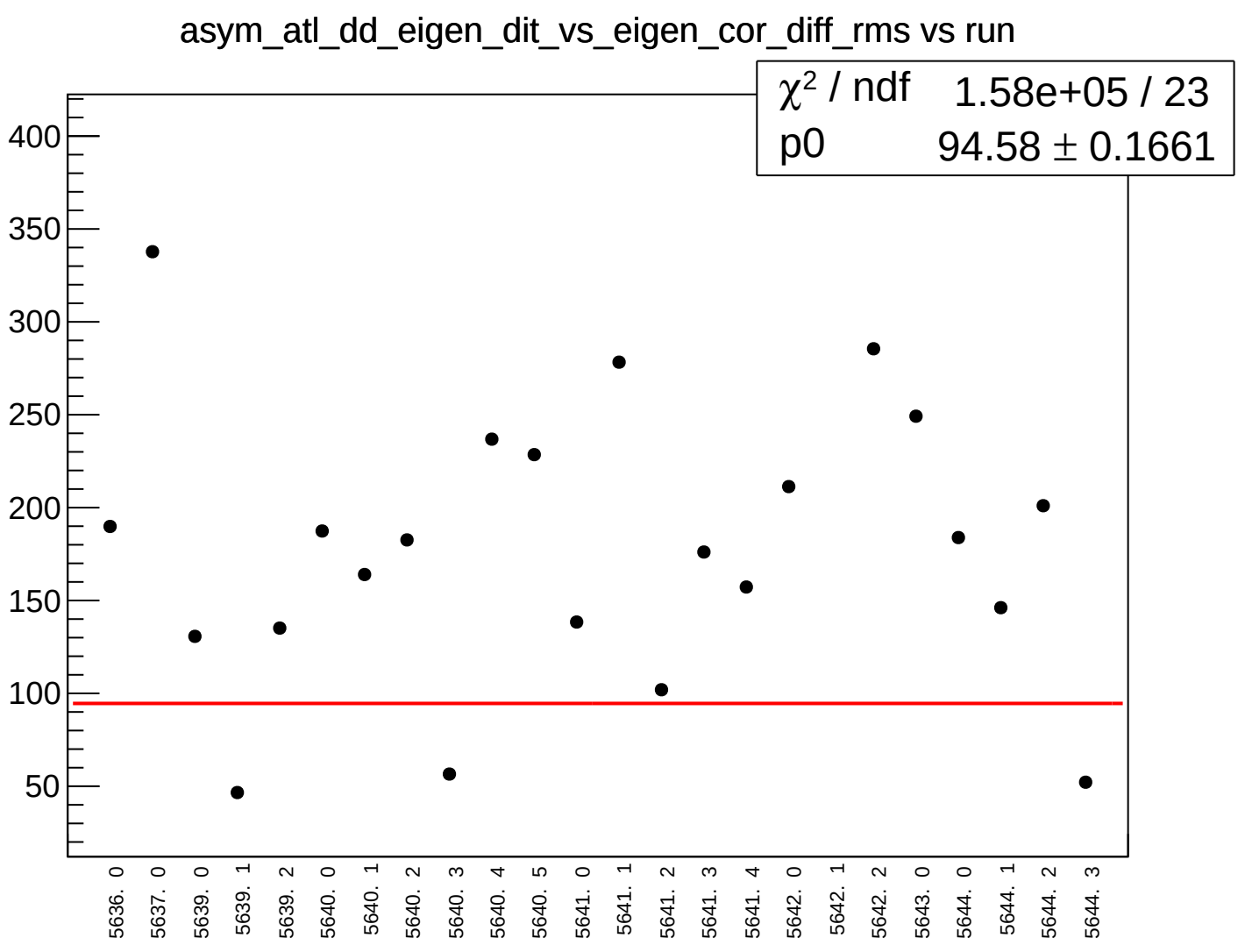

pull1D
Entries 24
Mean −0.02446
Std Dev 0.9298
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

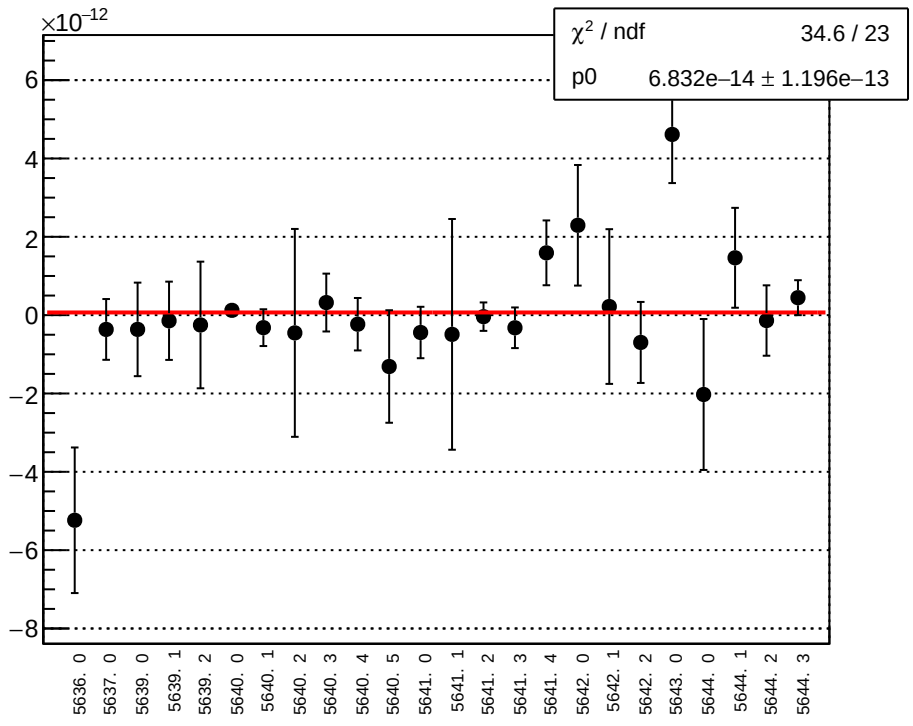

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1510 / 23
p0 0.006978 ± 1.006e−05
0.008
0.0075
0.007
0.0065
0.006
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

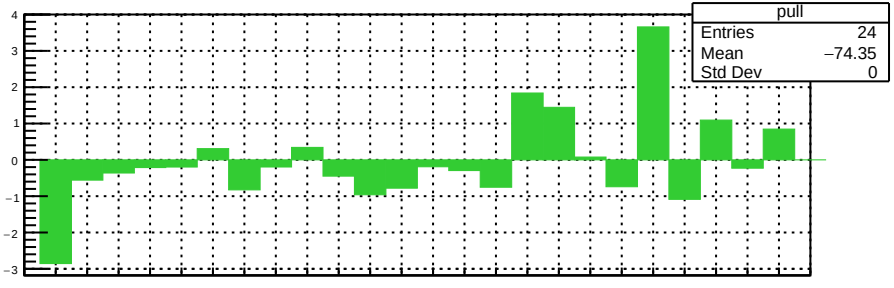

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 15.69 / 23
p0 −0.05791 ± 0.2349
6
4
2
0
−2
−4
−6
−8
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −2499
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.0008489
Std Dev 0.8086
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

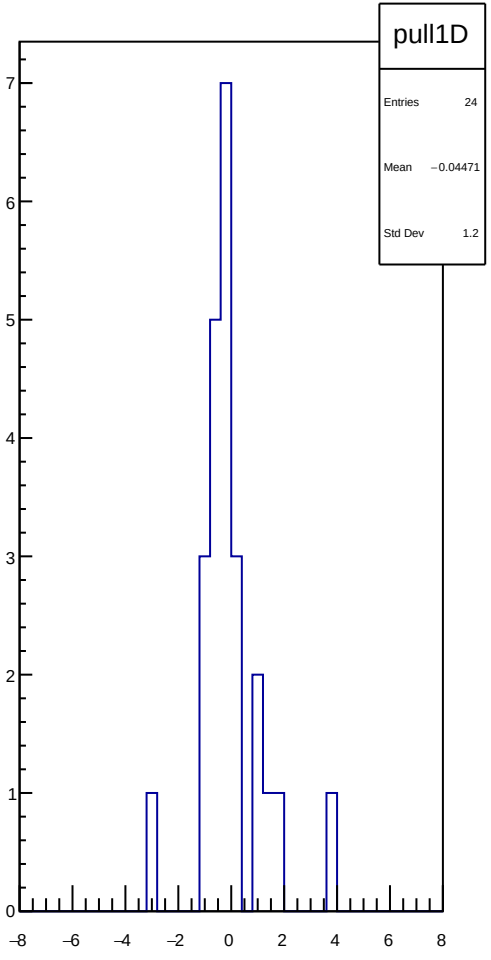

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.58e+05 / 23
p0 94.58 ± 0.1661
400
350
300
250
200
150
100
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

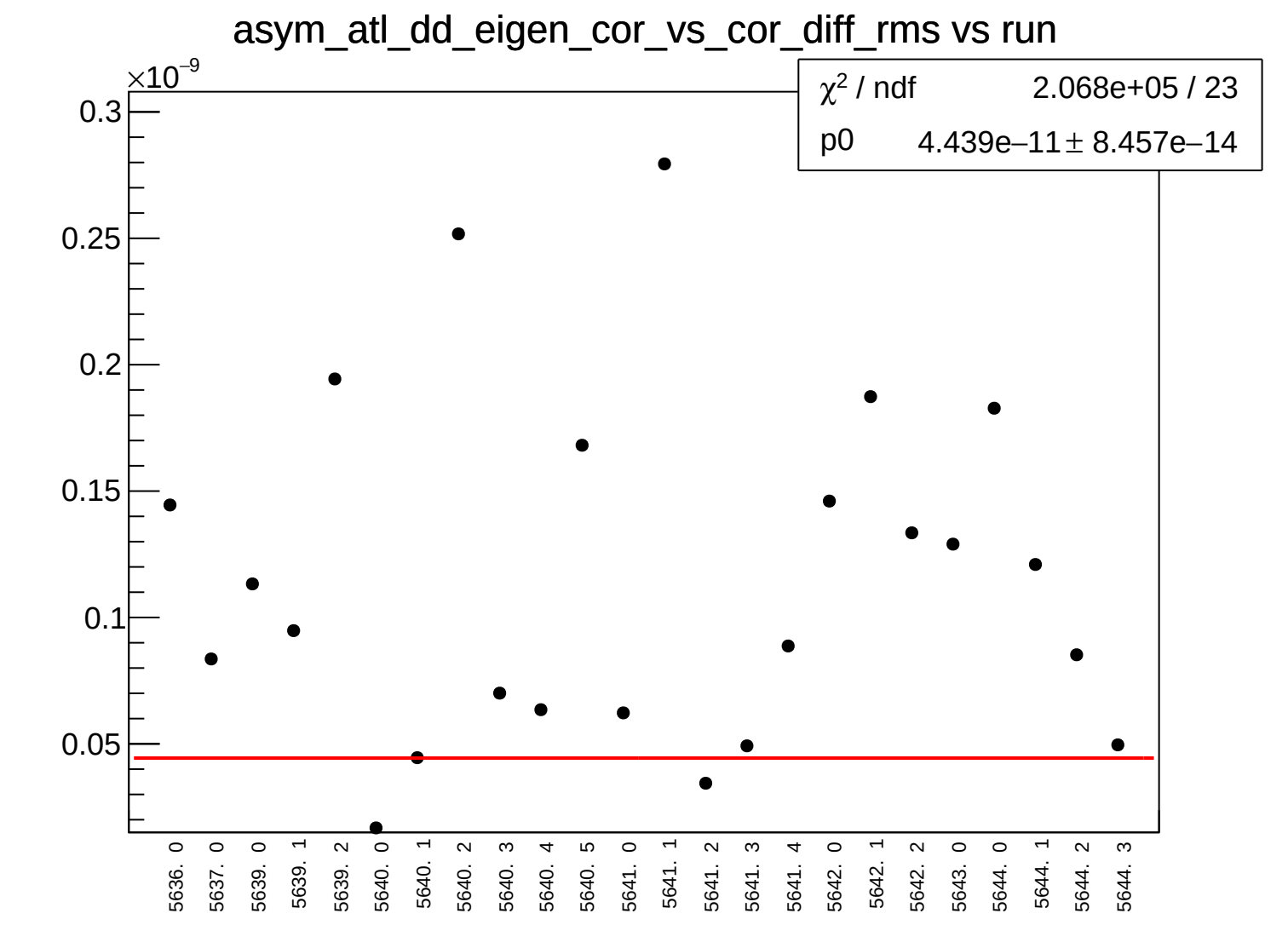

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 15.69 / 23
p0 −0.05791 ± 0.2349
6
4
2
0
−2
−4
−6
−8
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −2499
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.0008489
Std Dev 0.8086
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

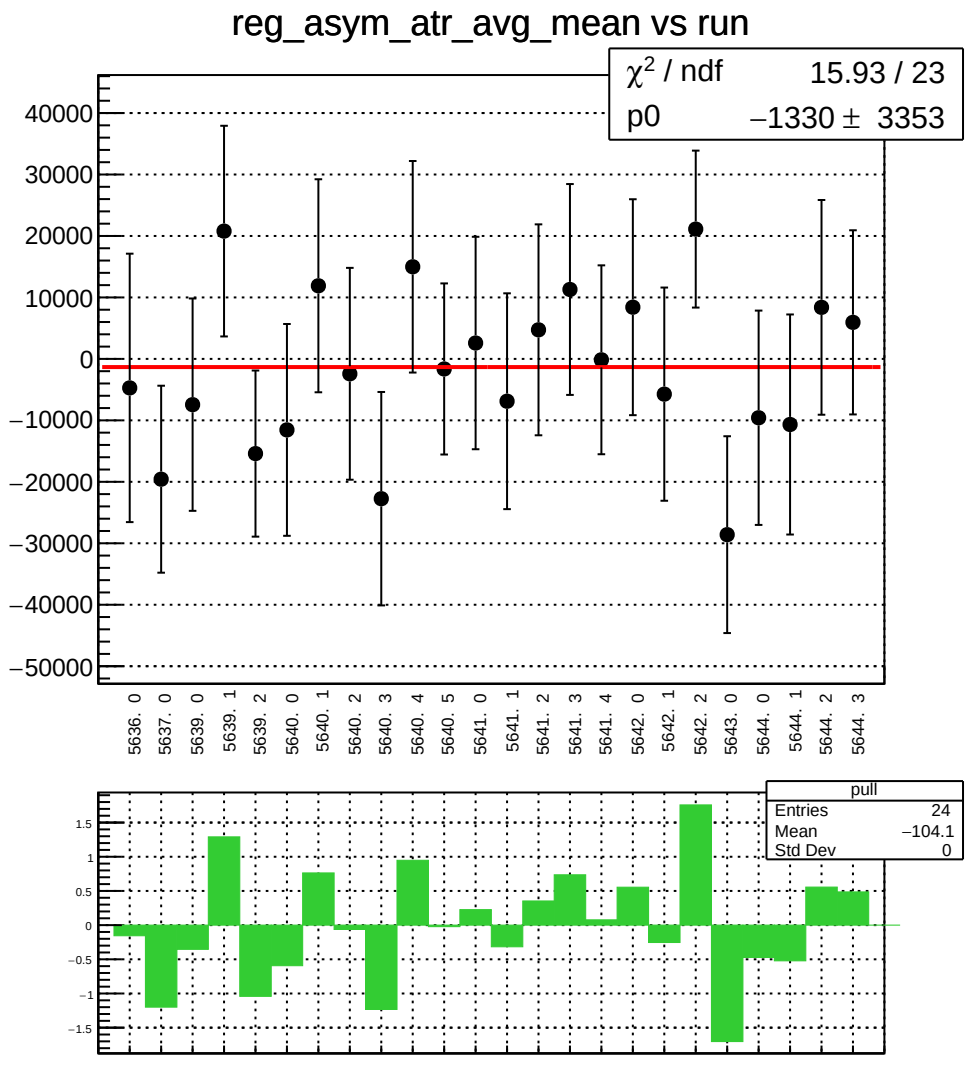

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.58e+05 / 23
p0 94.58 ± 0.1661
400
350
300
250
200
150
100
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

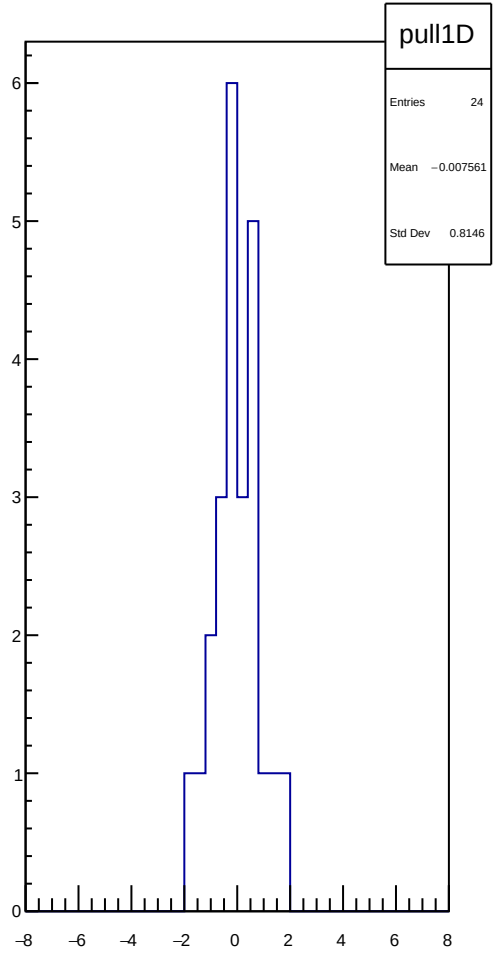

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 34.6 / 23
p0 6.832e−14 ± 1.196e−13
6
4
2
0
−2
−4
−6
−8
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

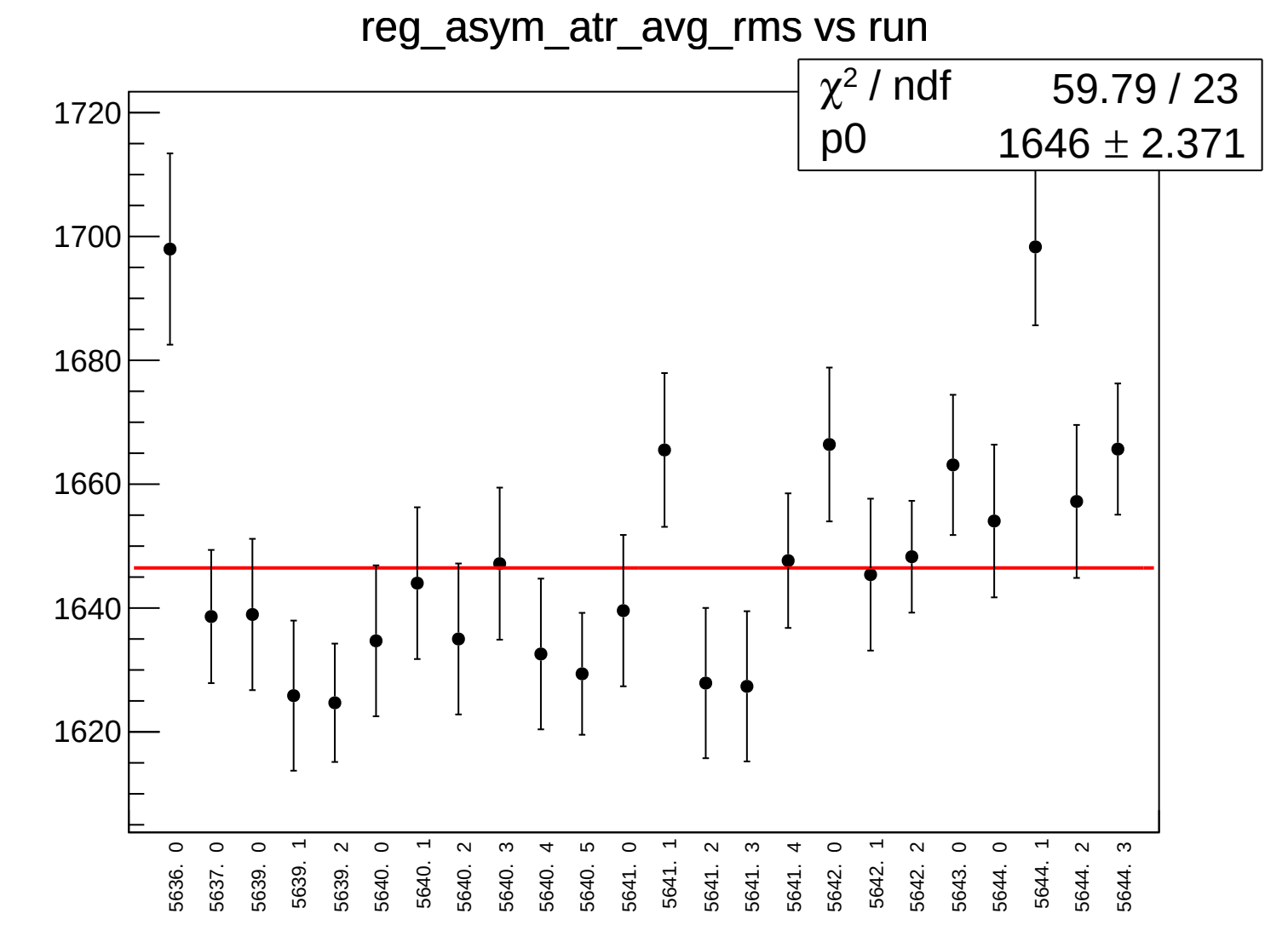

pull
Entries 24
Mean −74.35
Std Dev 0
4
3
2
1
0
−1
−2
−3

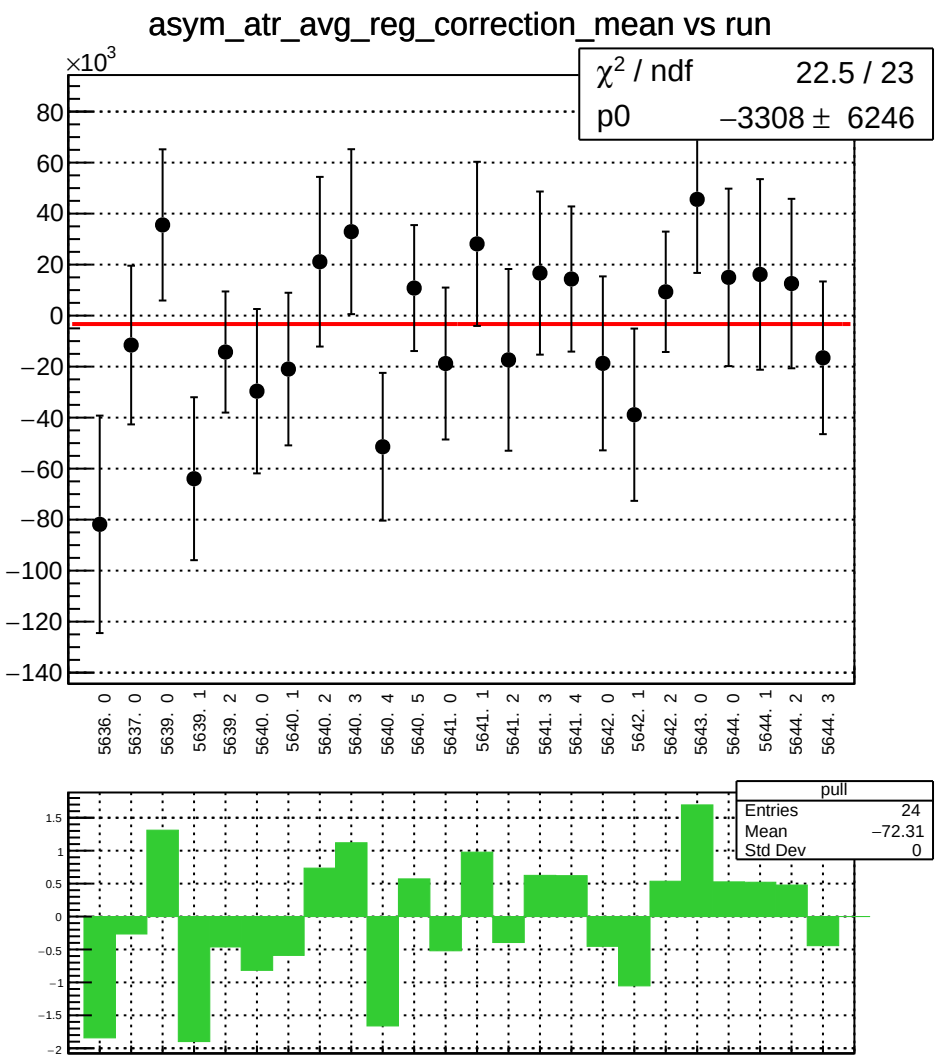

pull1D
Entries 24
Mean −0.04471
Std Dev 1.2
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

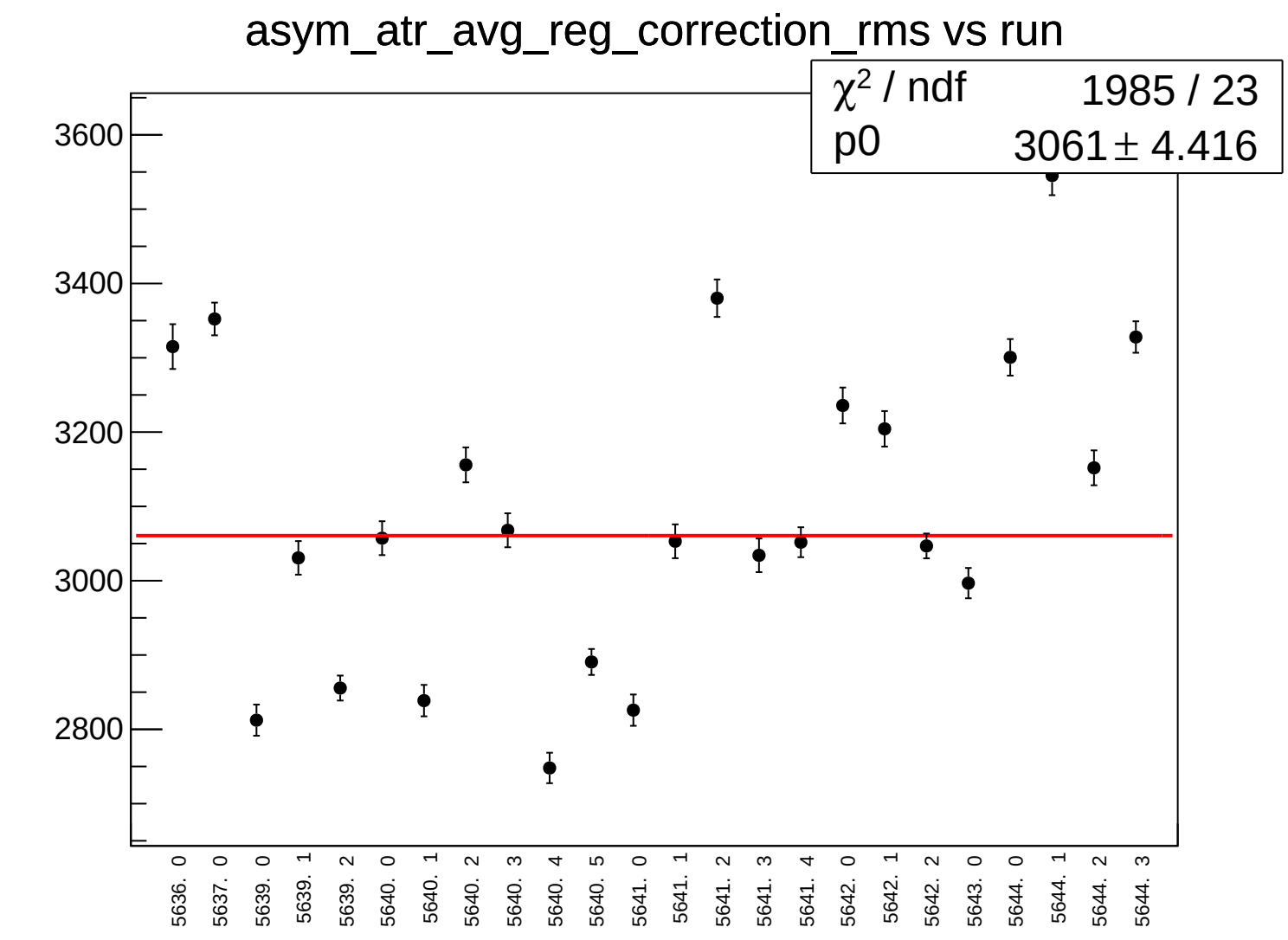

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.068e+05 / 23
p0 4.439e−11 ± 8.457e−14
0.3
0.25
0.2
0.15
0.1
0.05
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

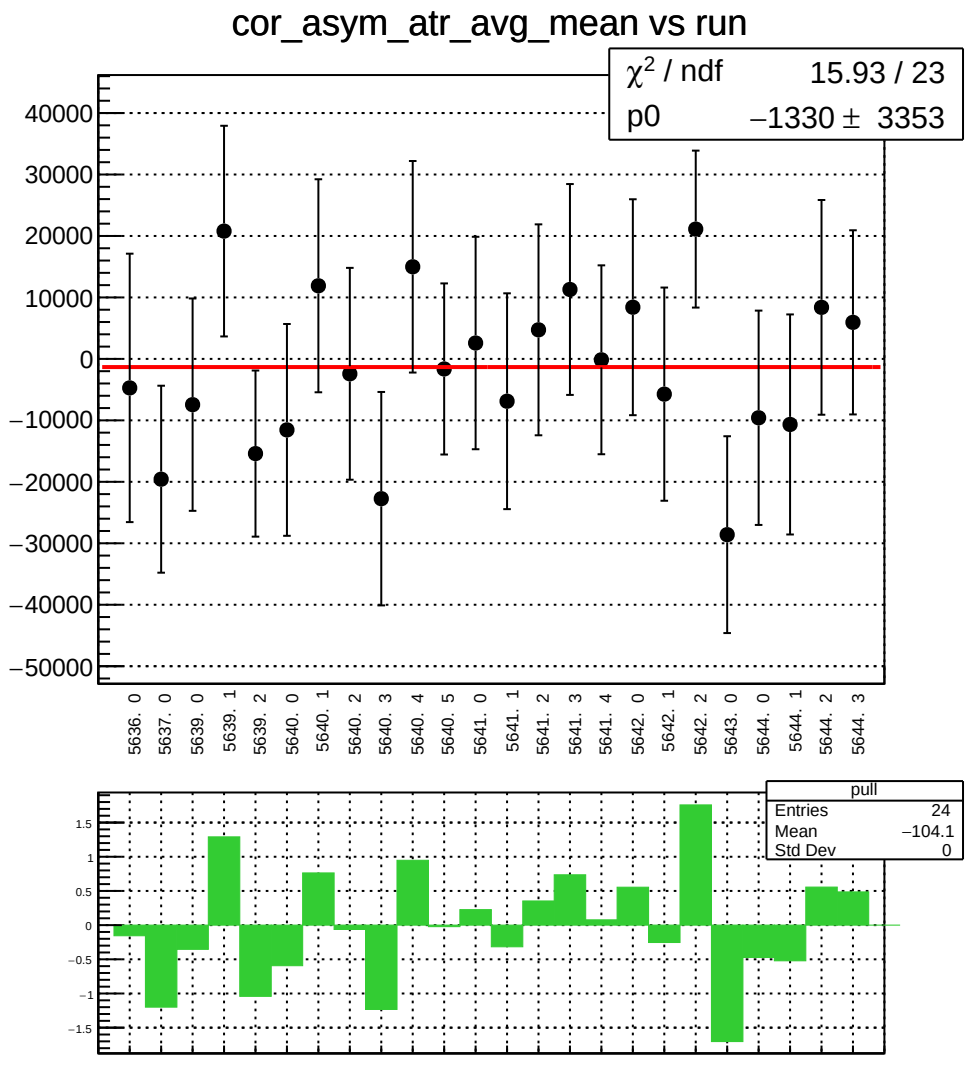

reg_asym_atr_avg_mean vs run
χ² / ndf 15.93 / 23
p0 −1330 ± 3353
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −104.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

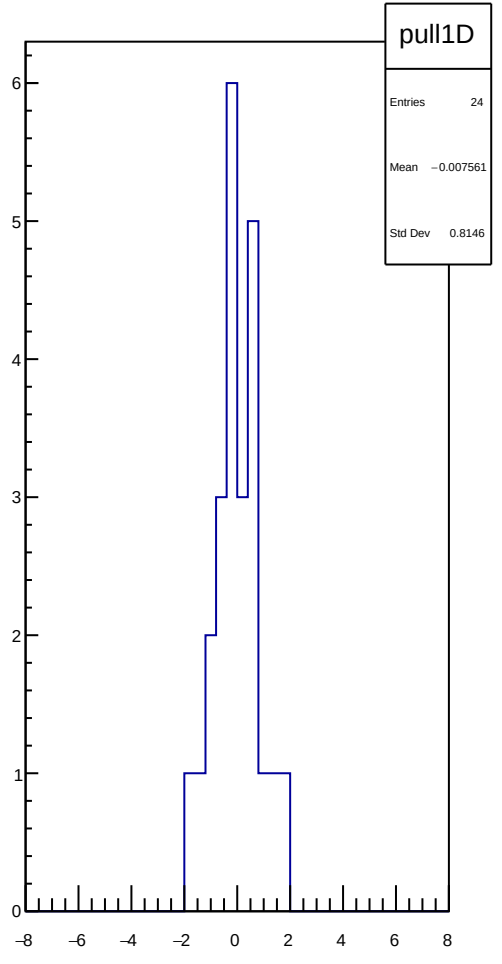

pull1D
Entries 24
Mean −0.007561
Std Dev 0.8146
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

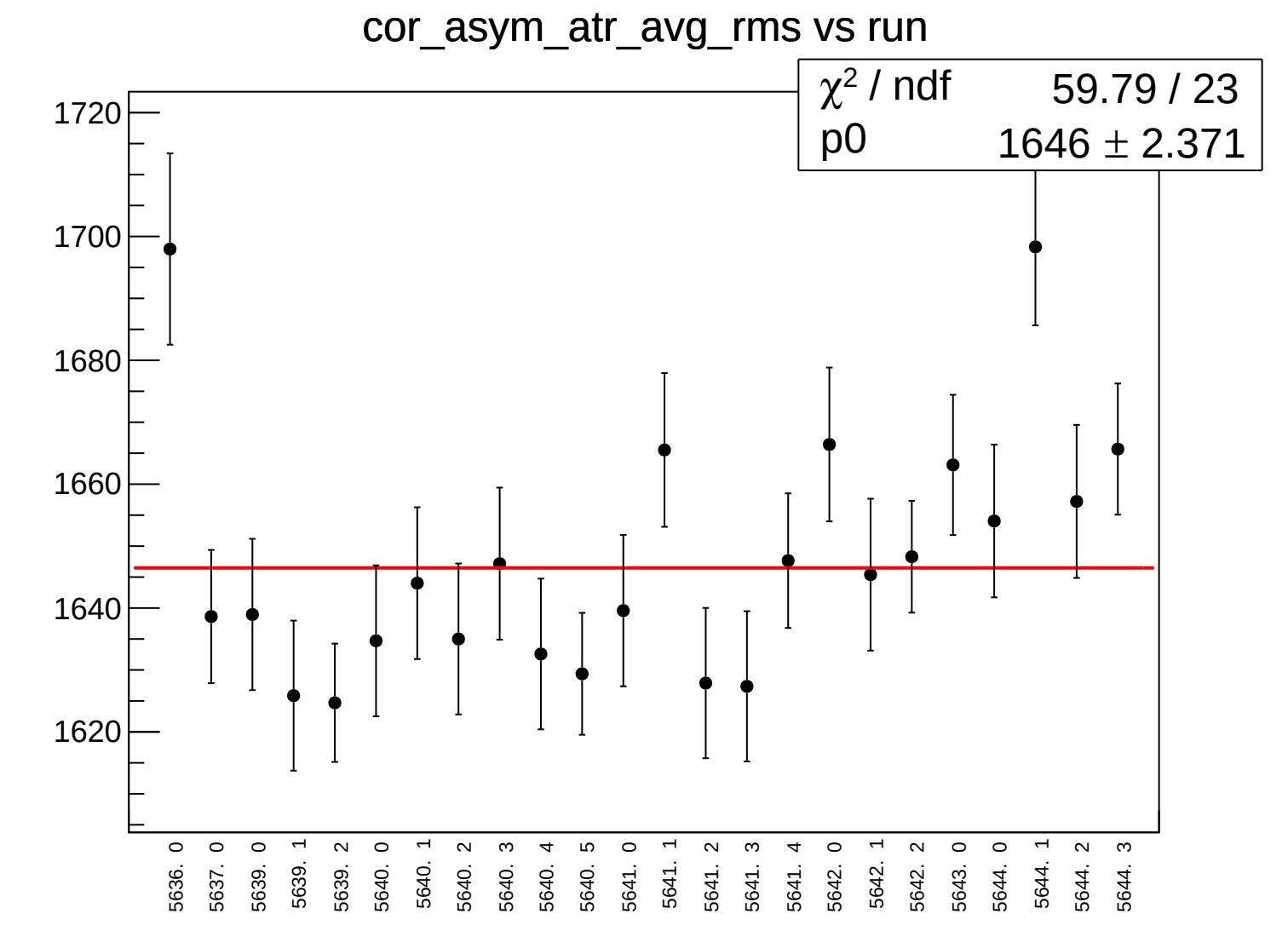

reg_asym_atr_avg_rms vs run
χ² / ndf 59.79 / 23
p0 1646 ± 2.371
1720
1700
1680
1660
1640
1620
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 22.5 / 23
p0 −3308 ± 6246
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −72.31
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.02834
Std Dev 0.9677
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_avg_reg_correction_rms vs run
χ² / ndf 1985 / 23
p0 3061 ± 4.416
3600
3400
3200
3000
2800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


cor_asym_atr_avg_mean vs run
χ² / ndf 15.93 / 23
p0 −1330 ± 3353
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −104.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean −0.007561
Std Dev 0.8146
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atr_avg_rms vs run
χ² / ndf 59.79 / 23
p0 1646 ± 2.371
1720
1700
1680
1660
1640
1620
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
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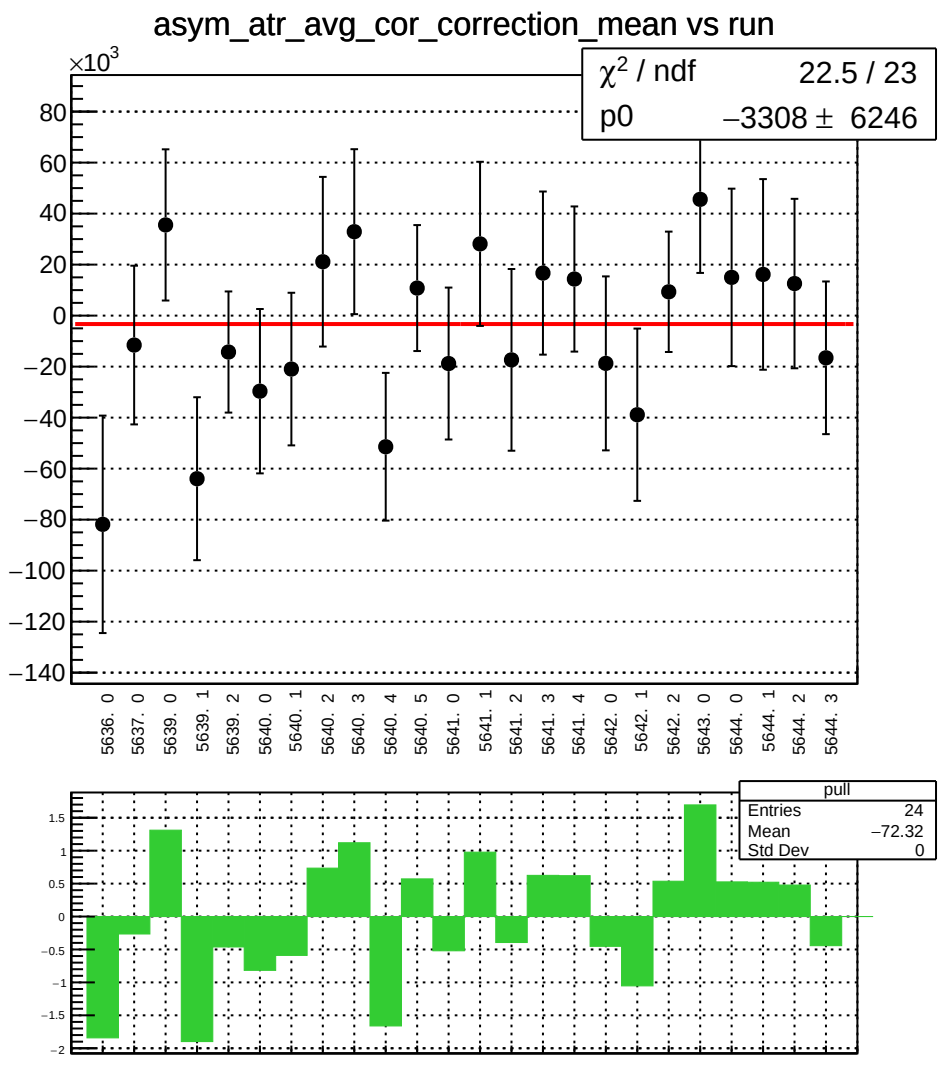
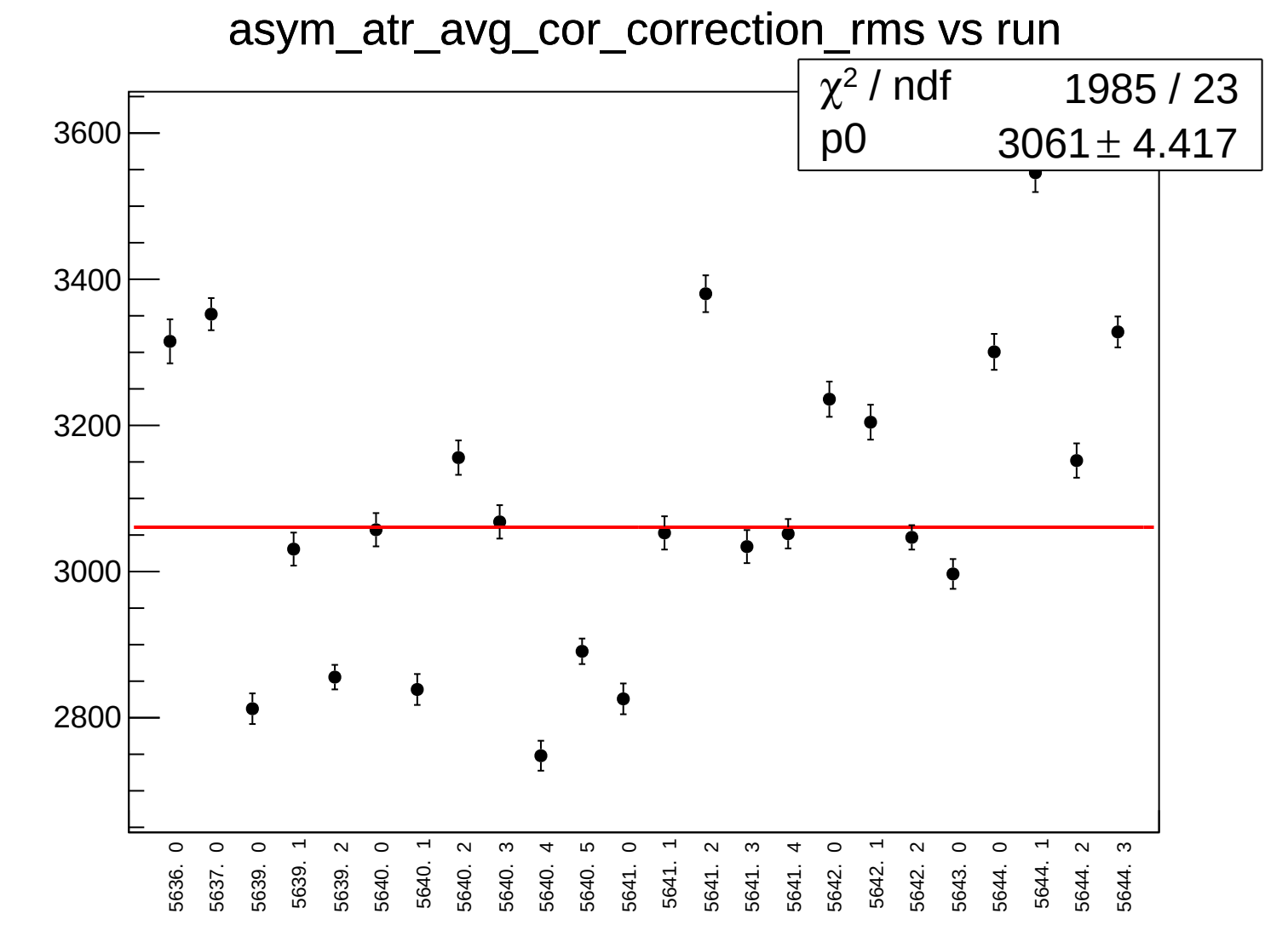
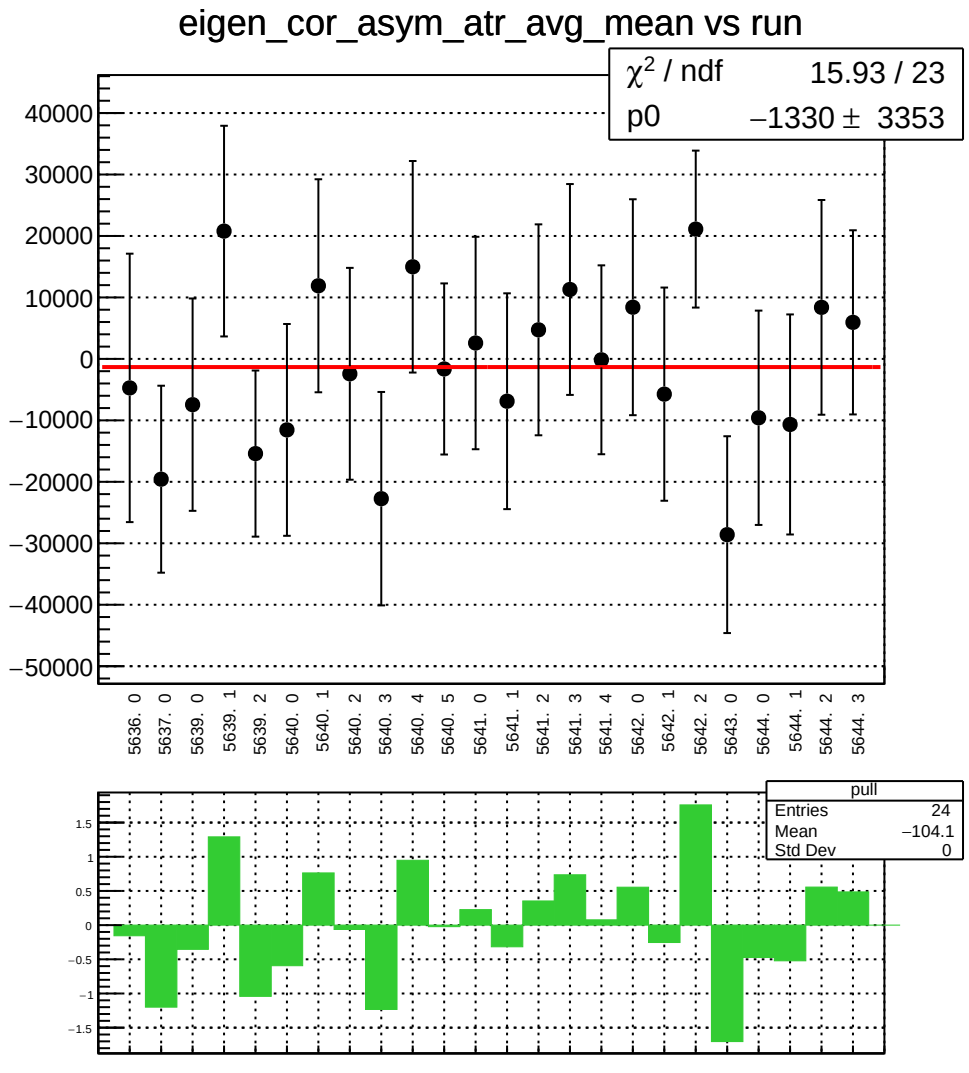
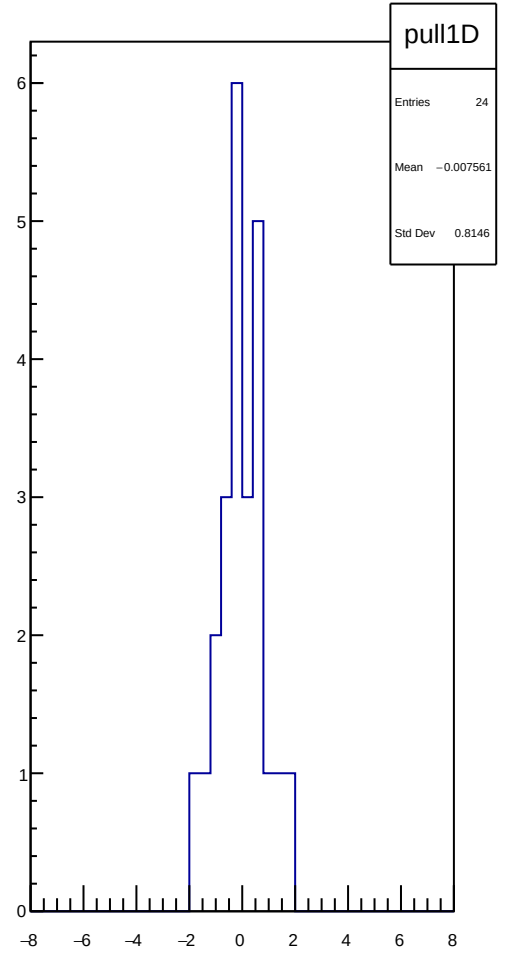
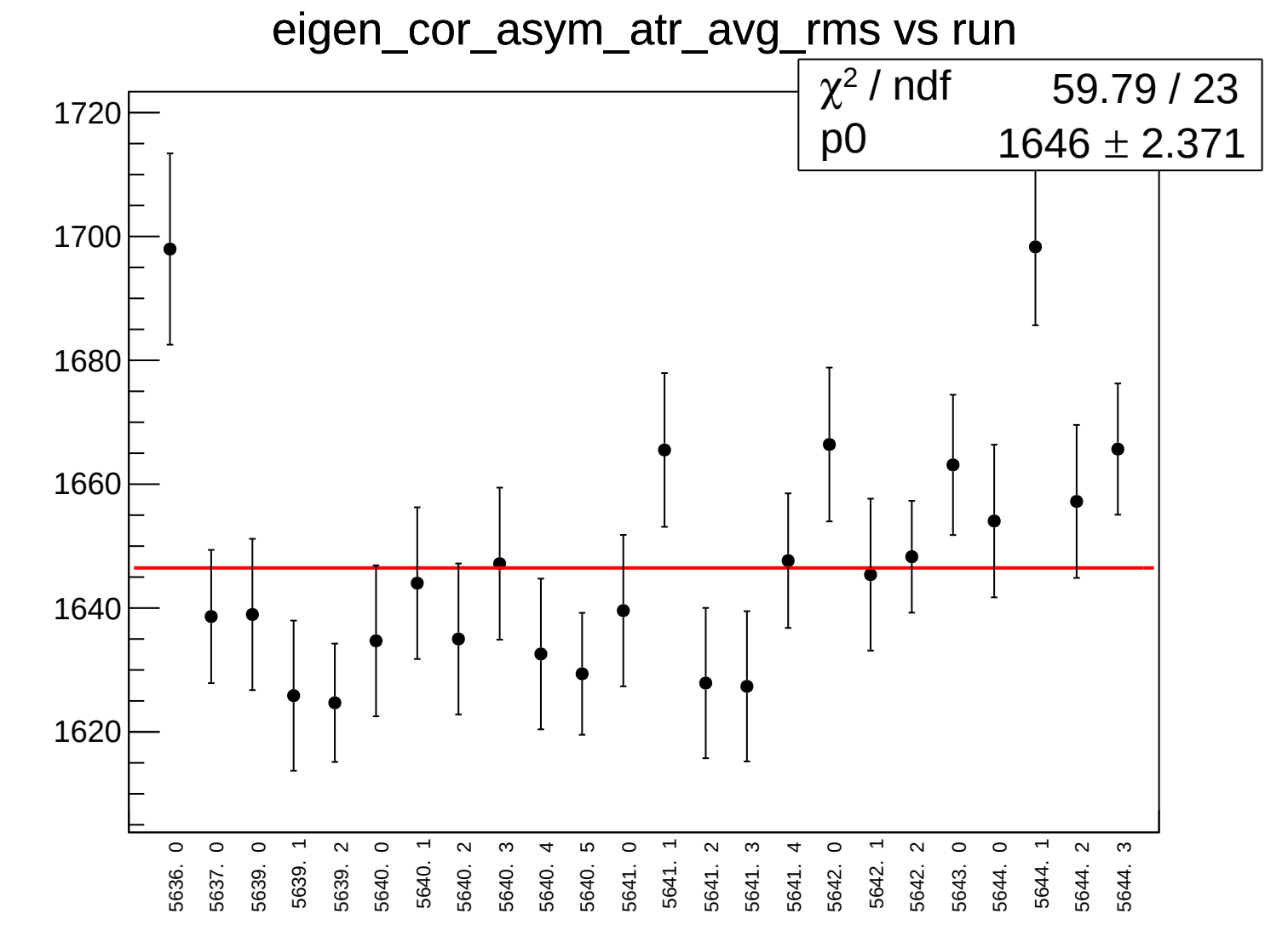
5644. 2
5644. 3

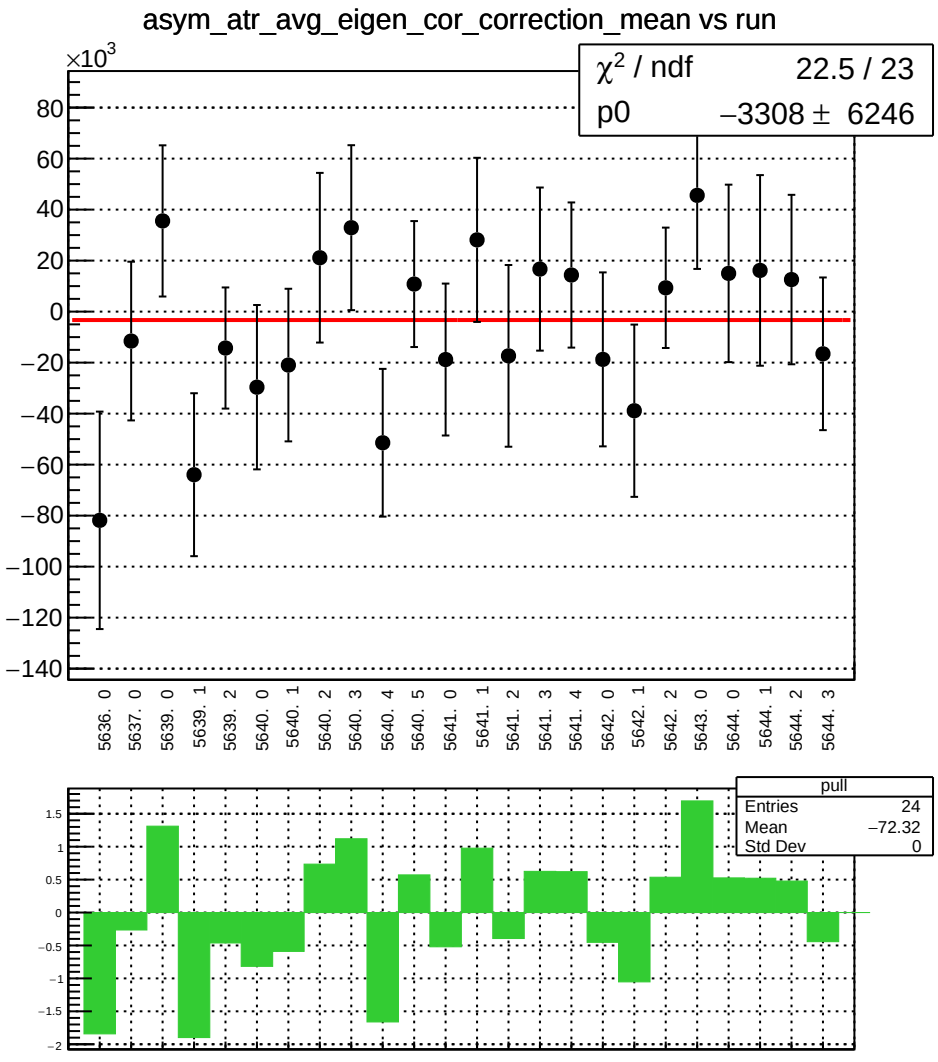

asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 22.5 / 23
p0 −3308 ± 6246
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −72.32
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.02834
Std Dev 0.9677
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

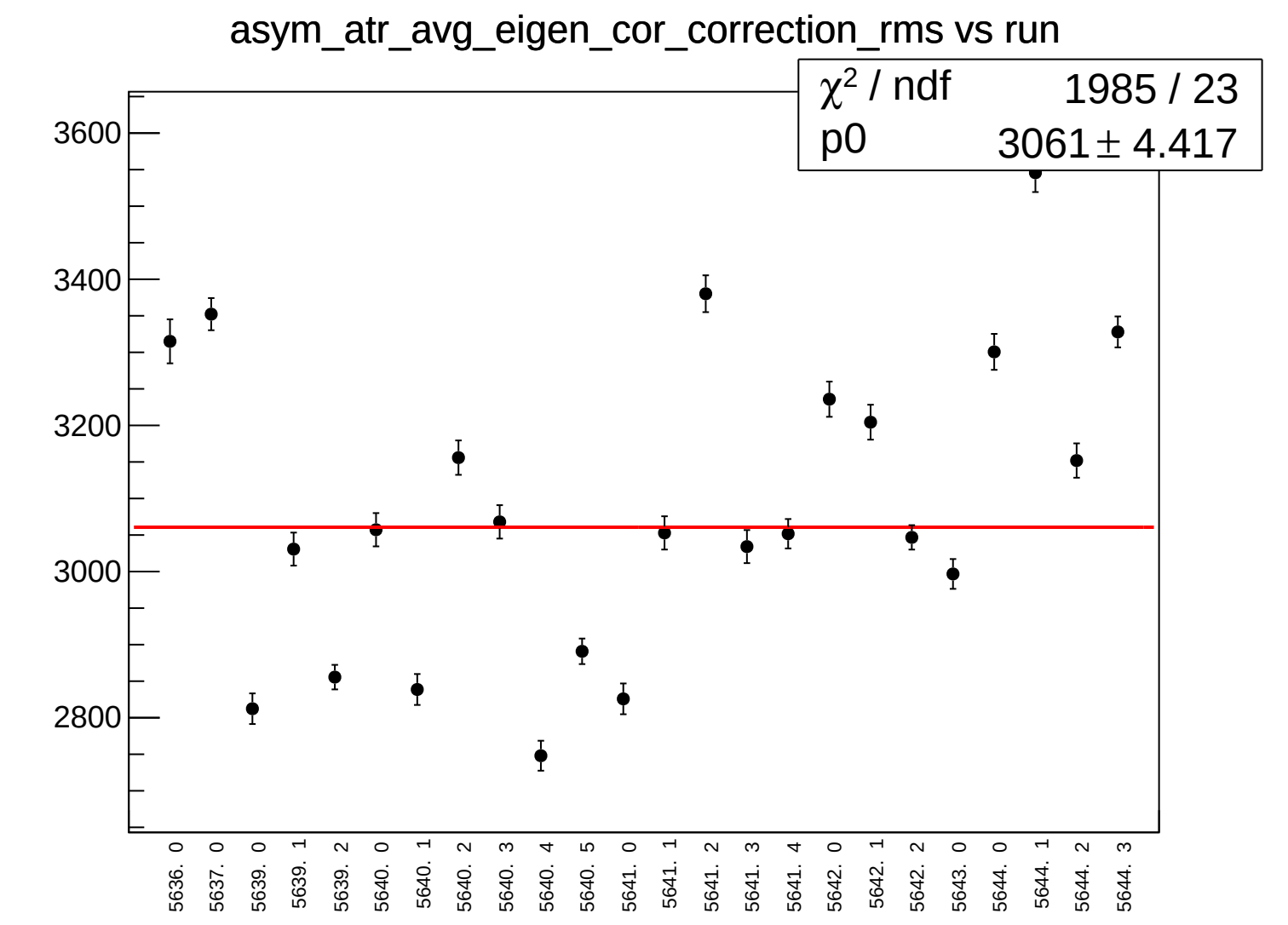

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 1985 / 23
p0 3061 ± 4.417
3600
3400
3200
3000
2800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

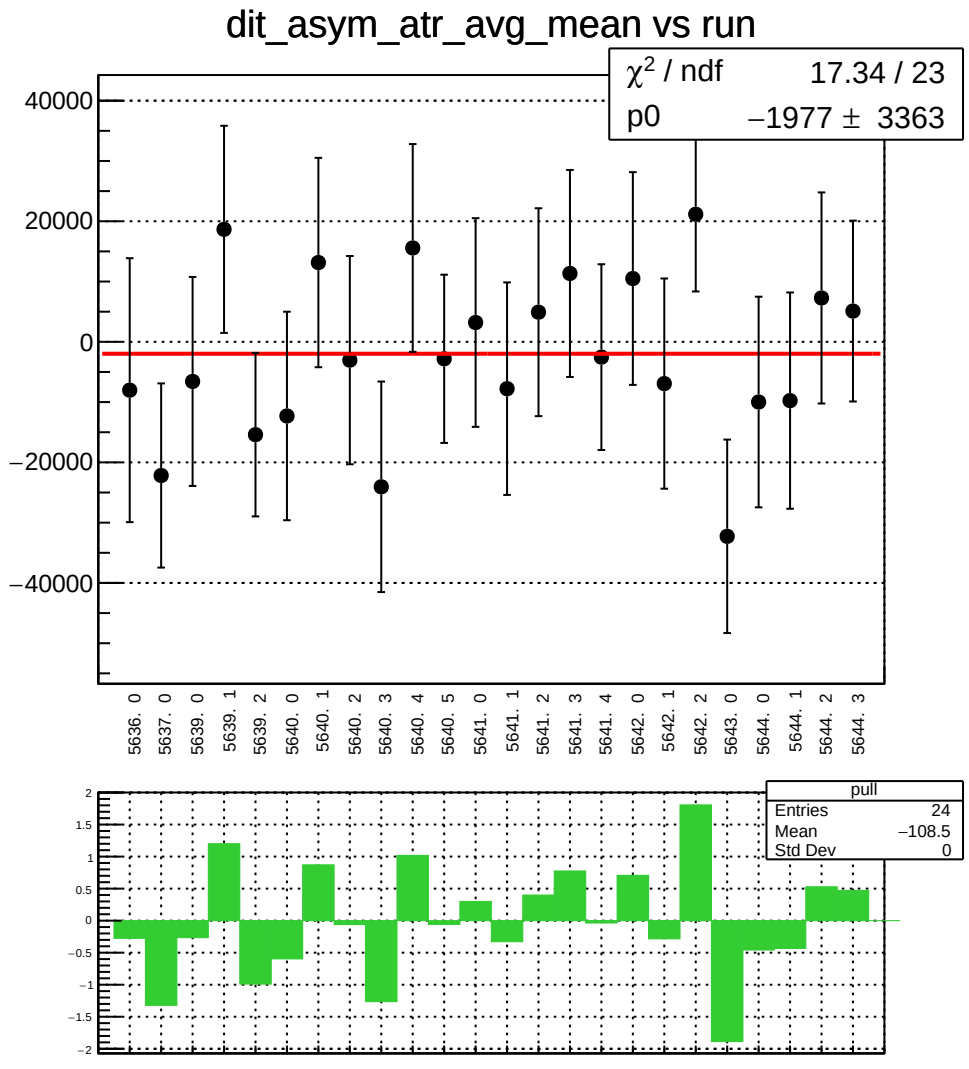

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 15.93 / 23
p0 −1330 ± 3353
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −104.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

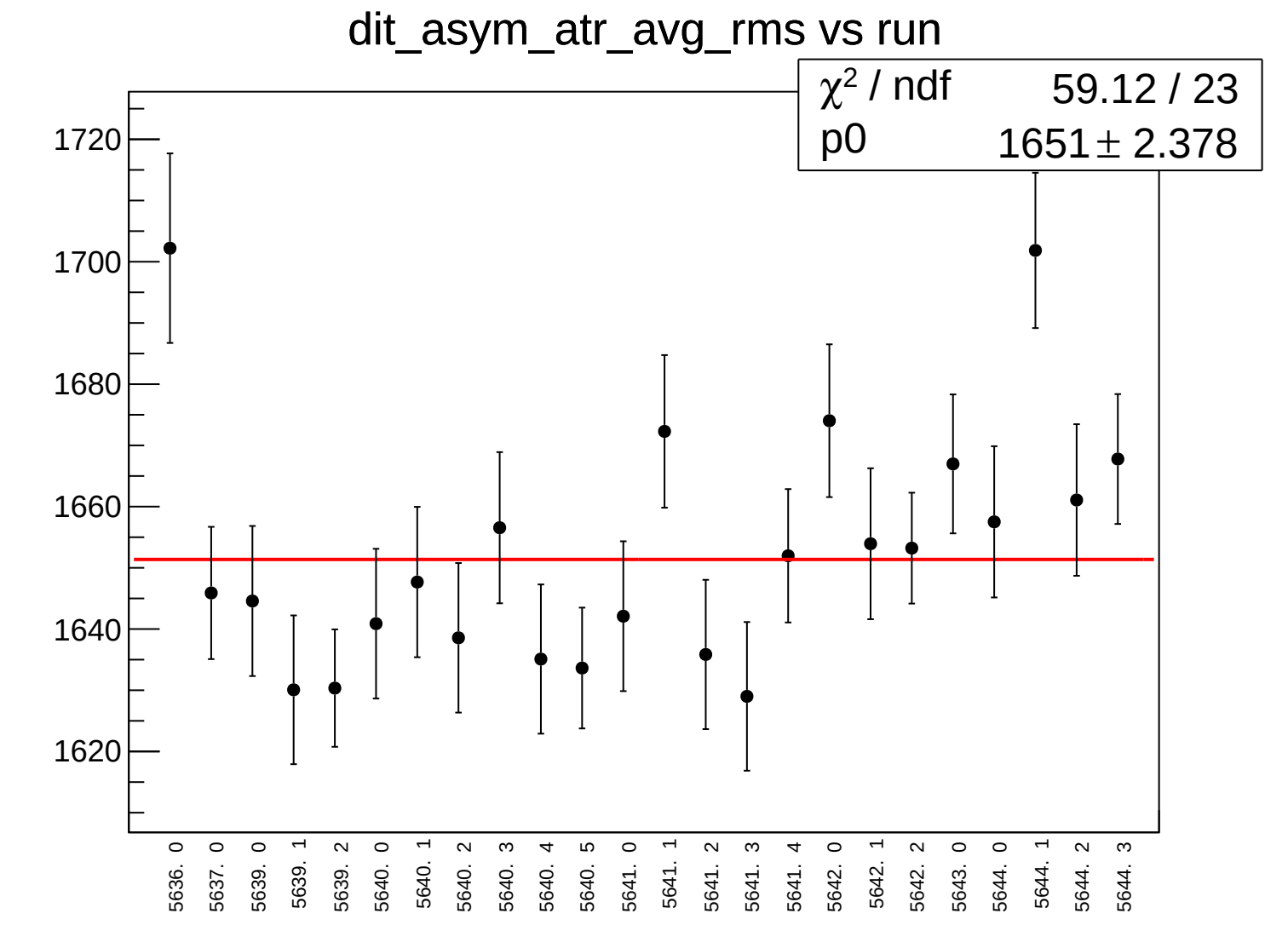

pull1D
Entries 24
Mean −0.007561
Std Dev 0.8146
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

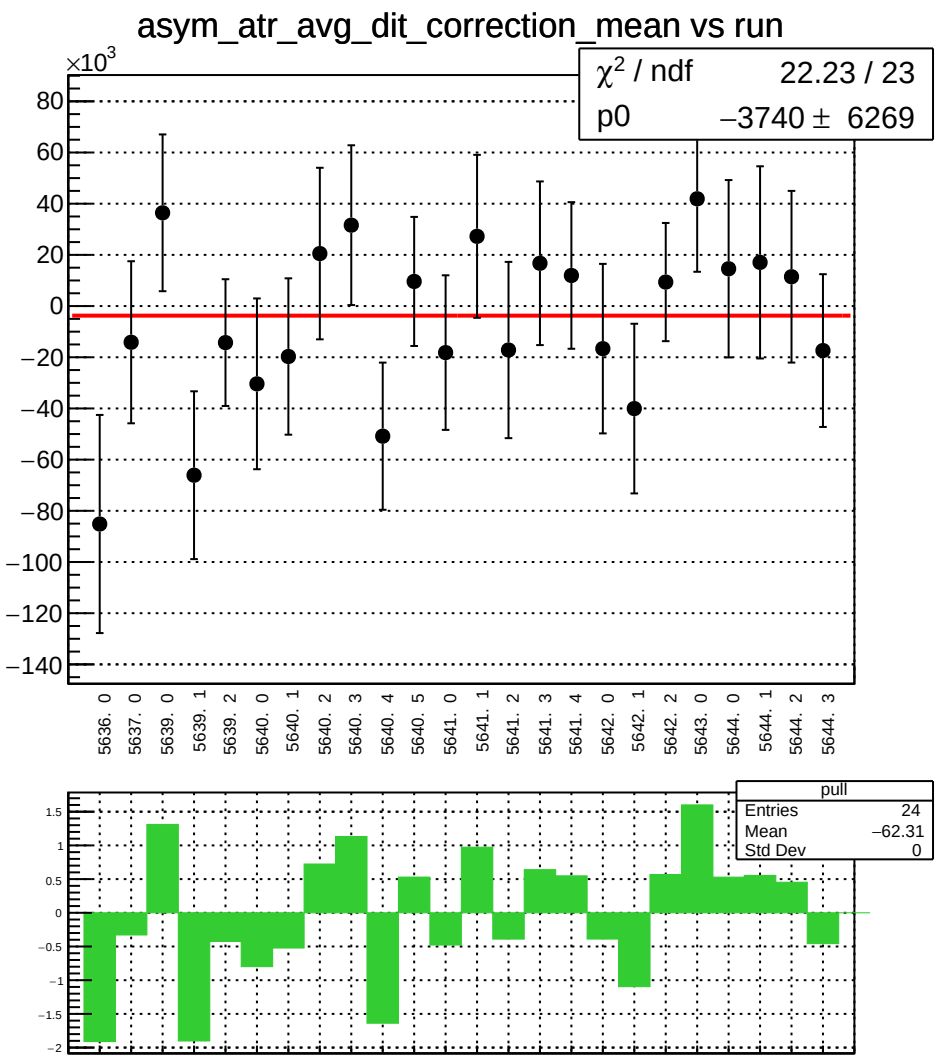

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 59.79 / 23
p0 1646 ± 2.371
1720
1700
1680
1660
1640
1620
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

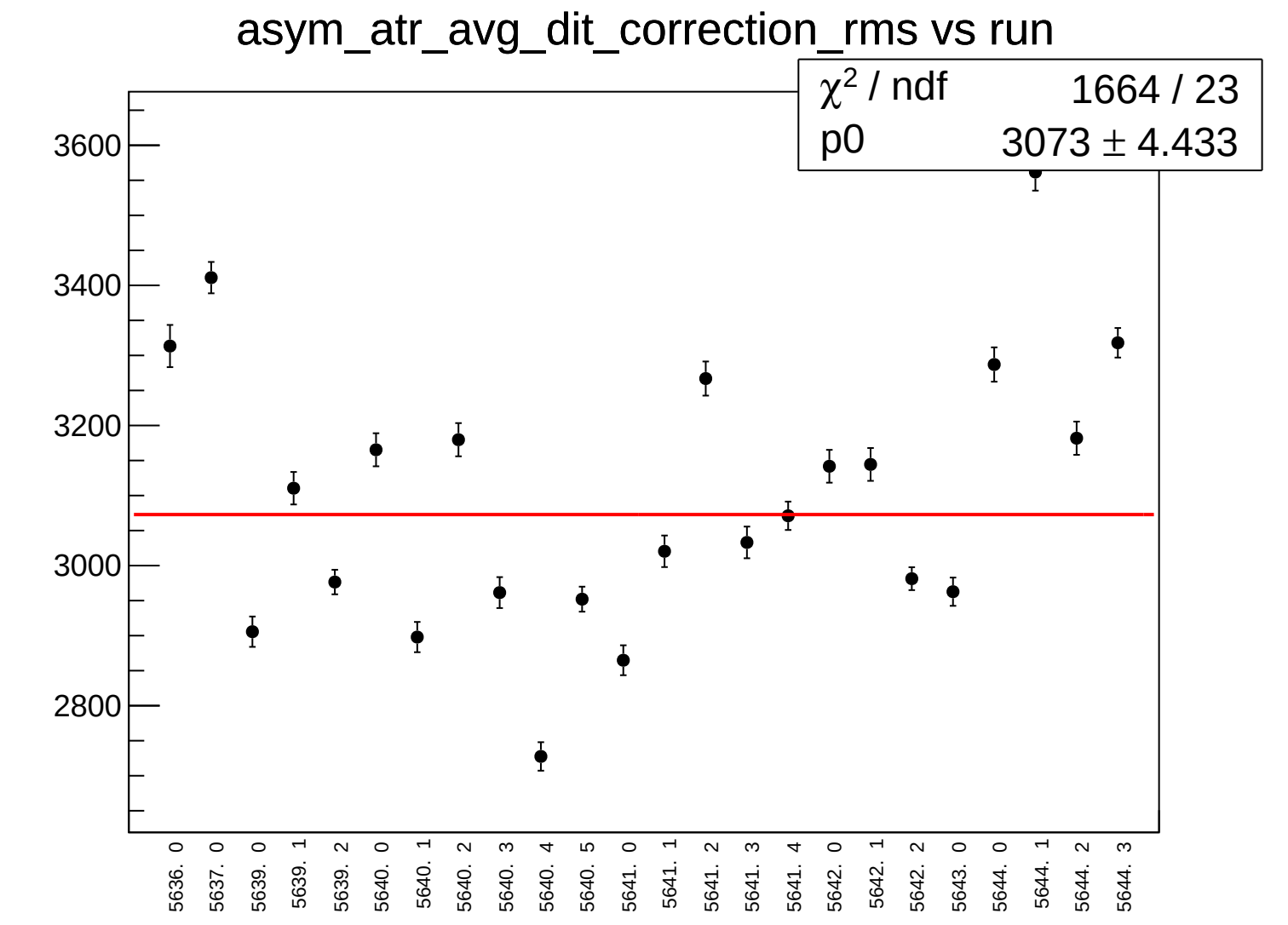

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 22.5 / 23
p0 −3308 ± 6246
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −72.32
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.02834
Std Dev 0.9677
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

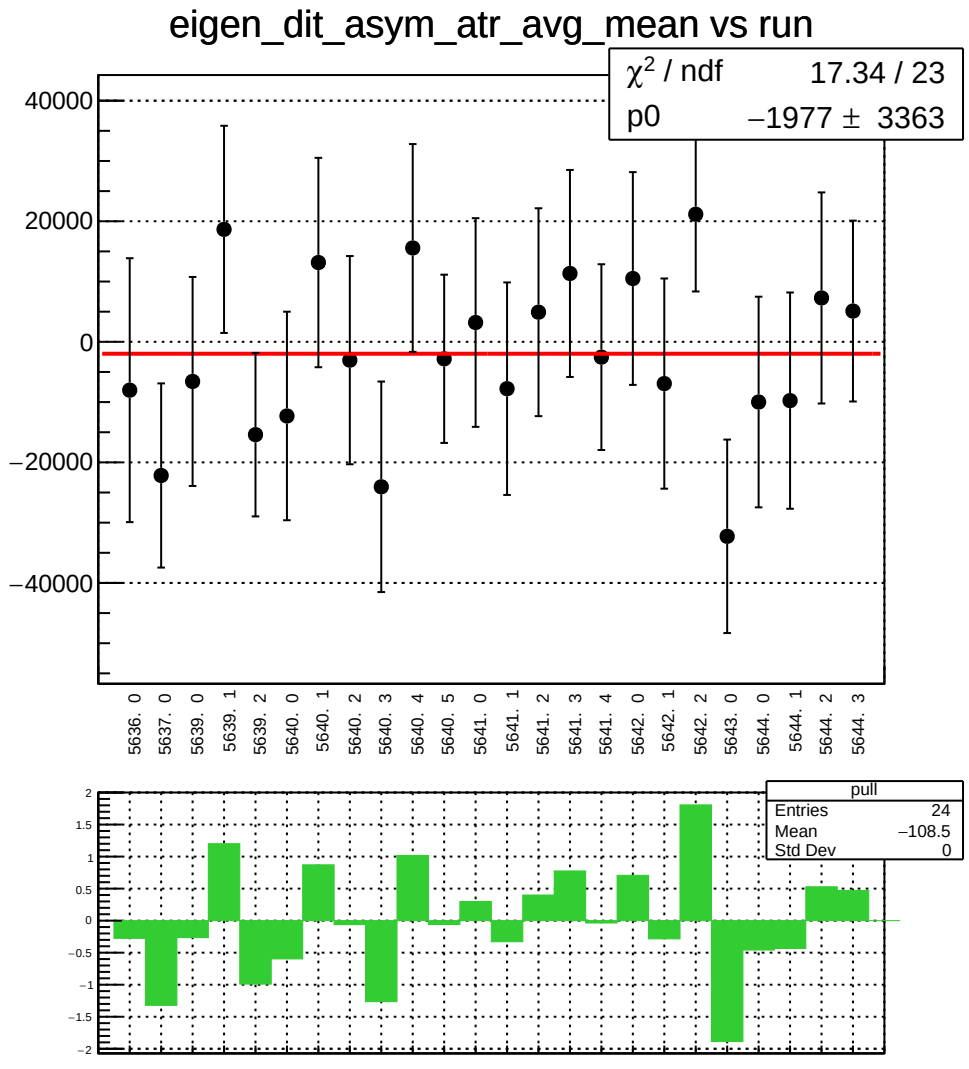

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 1985 / 23
p0 3061 ± 4.417
3600
3400
3200
3000
2800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

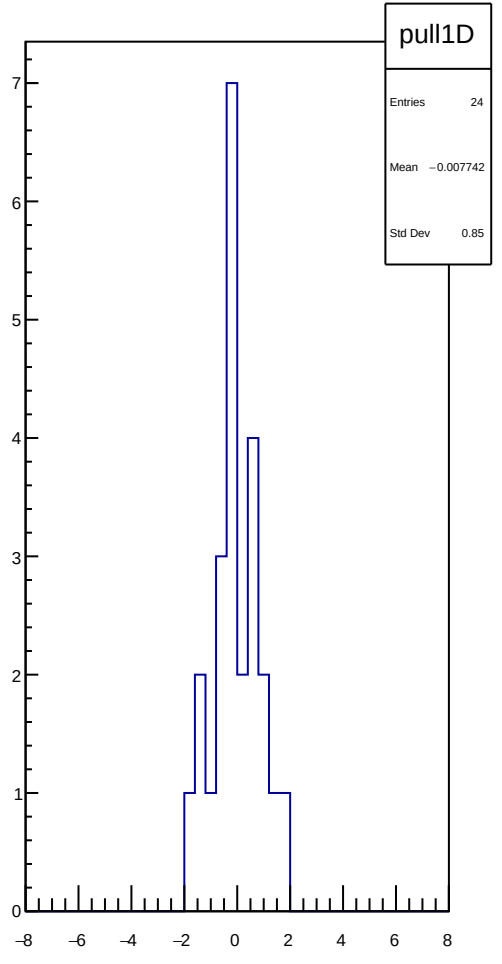

dit_asym_atr_avg_mean vs run
χ² / ndf 17.34 / 23
p0 −1977 ± 3363
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −108.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.007742
Std Dev 0.85
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

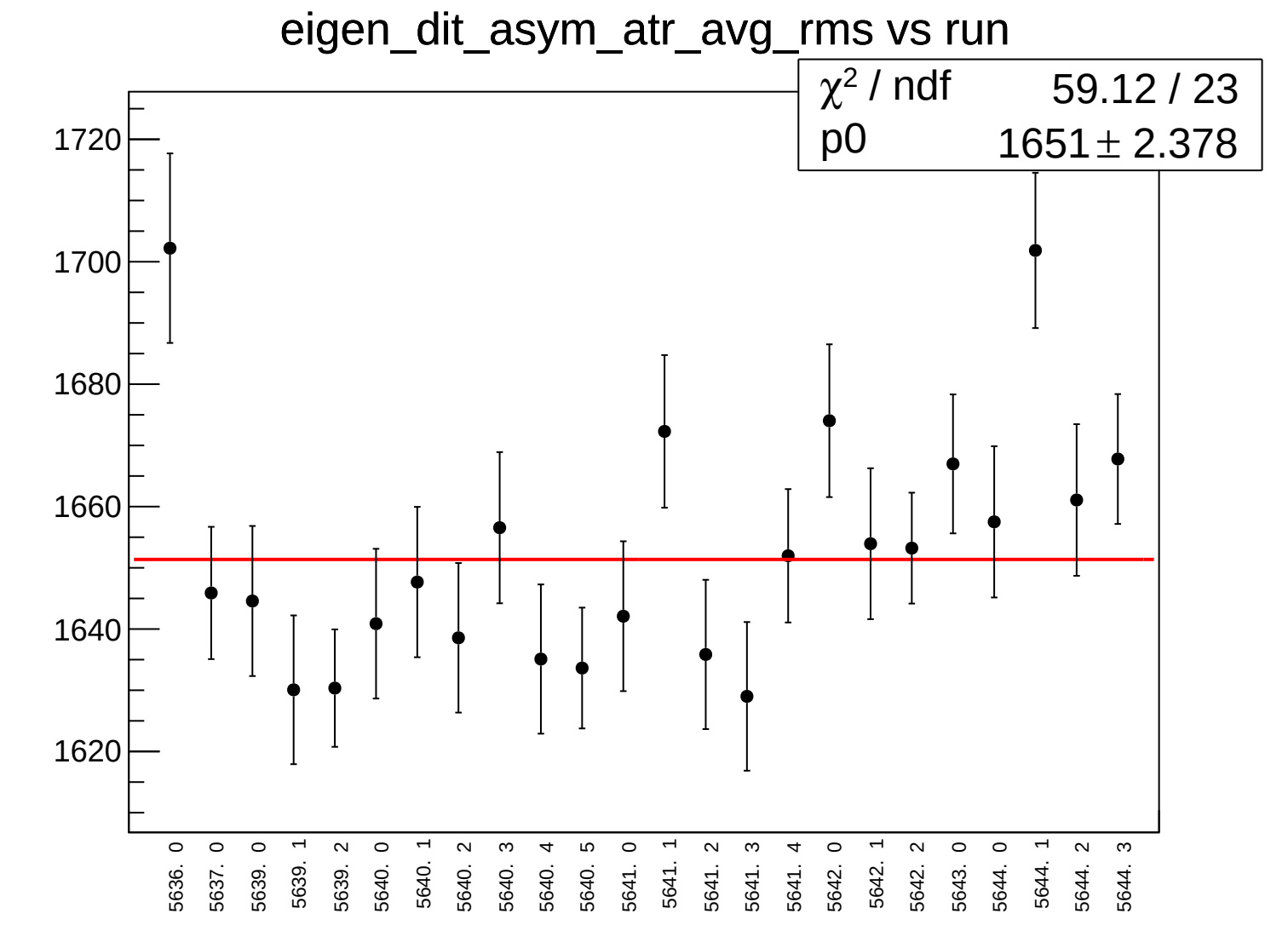

dit_asym_atr_avg_rms vs run
χ² / ndf 59.12 / 23
p0 1651 ± 2.378
1720
1700
1680
1660
1640
1620
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

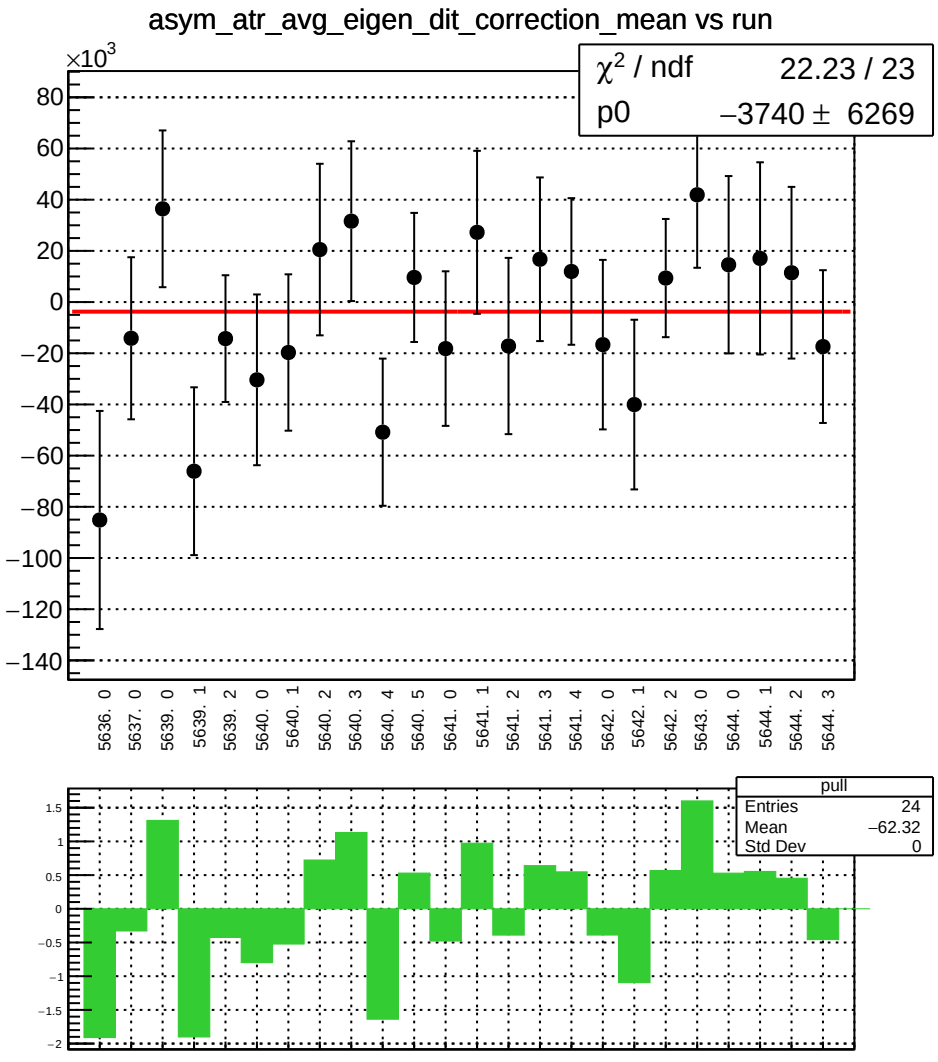

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 22.23 / 23
p0 −3740 ± 6269
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −62.31
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.03213
Std Dev 0.962
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

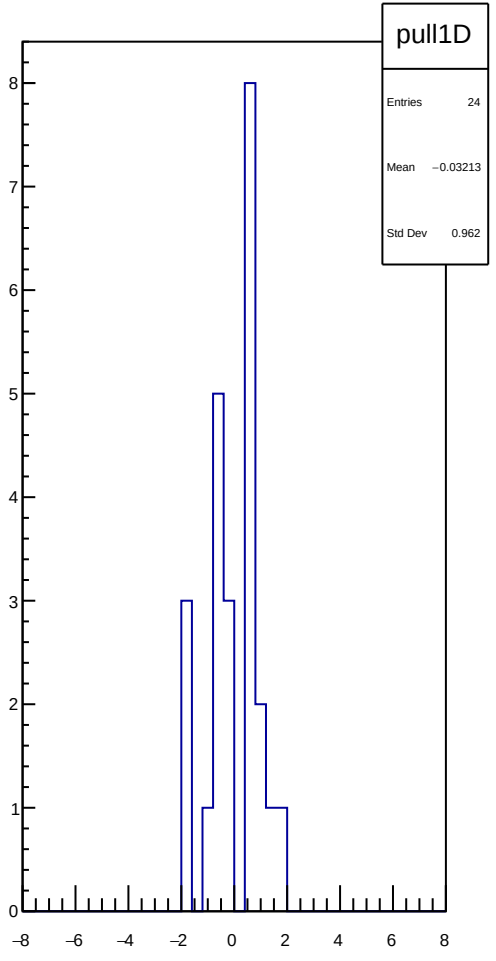

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 1664 / 23
p0 3073 ± 4.433
3600
3400
3200
3000
2800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

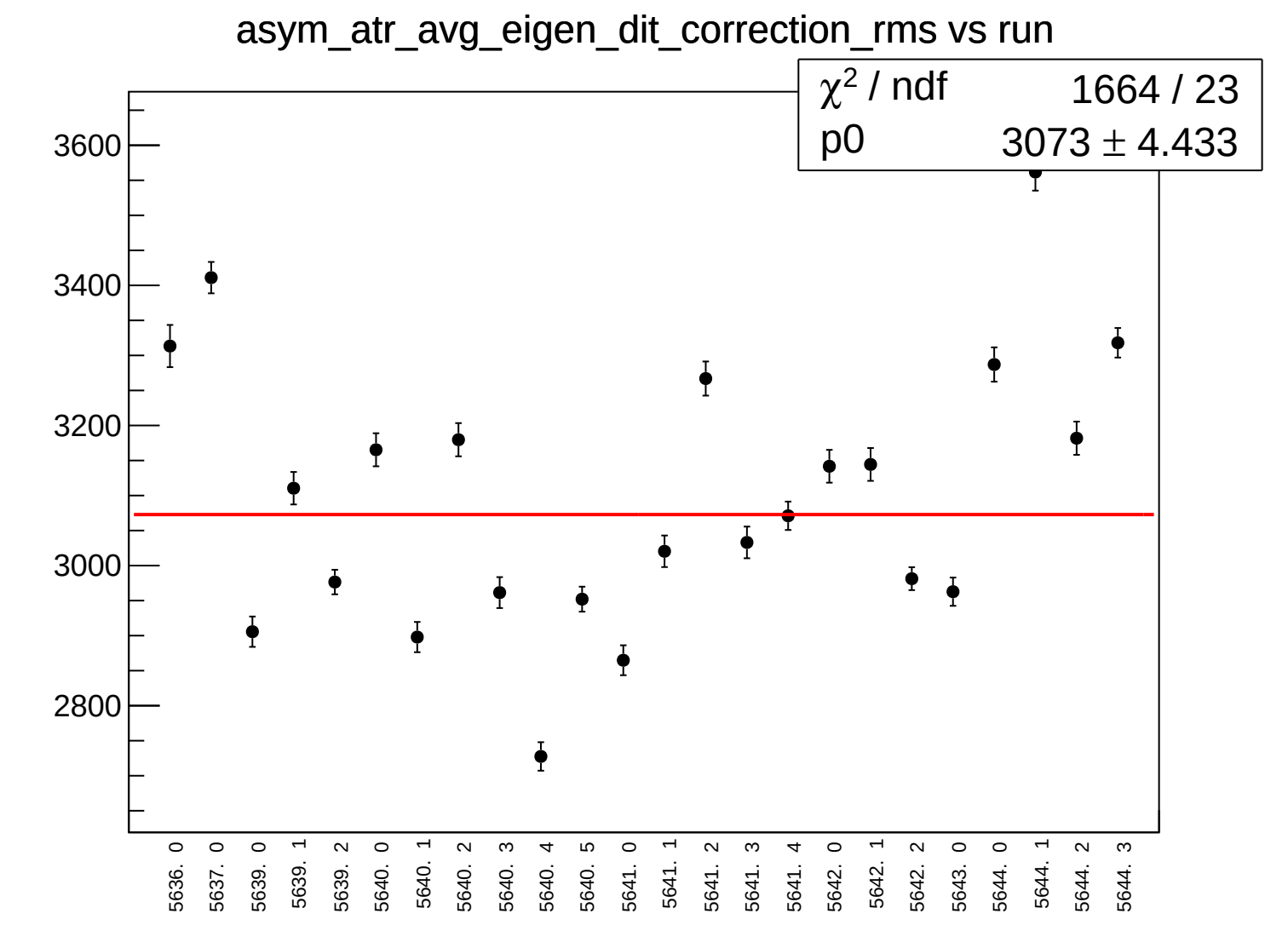

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 17.34 / 23
p0 −1977 ± 3363
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −108.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

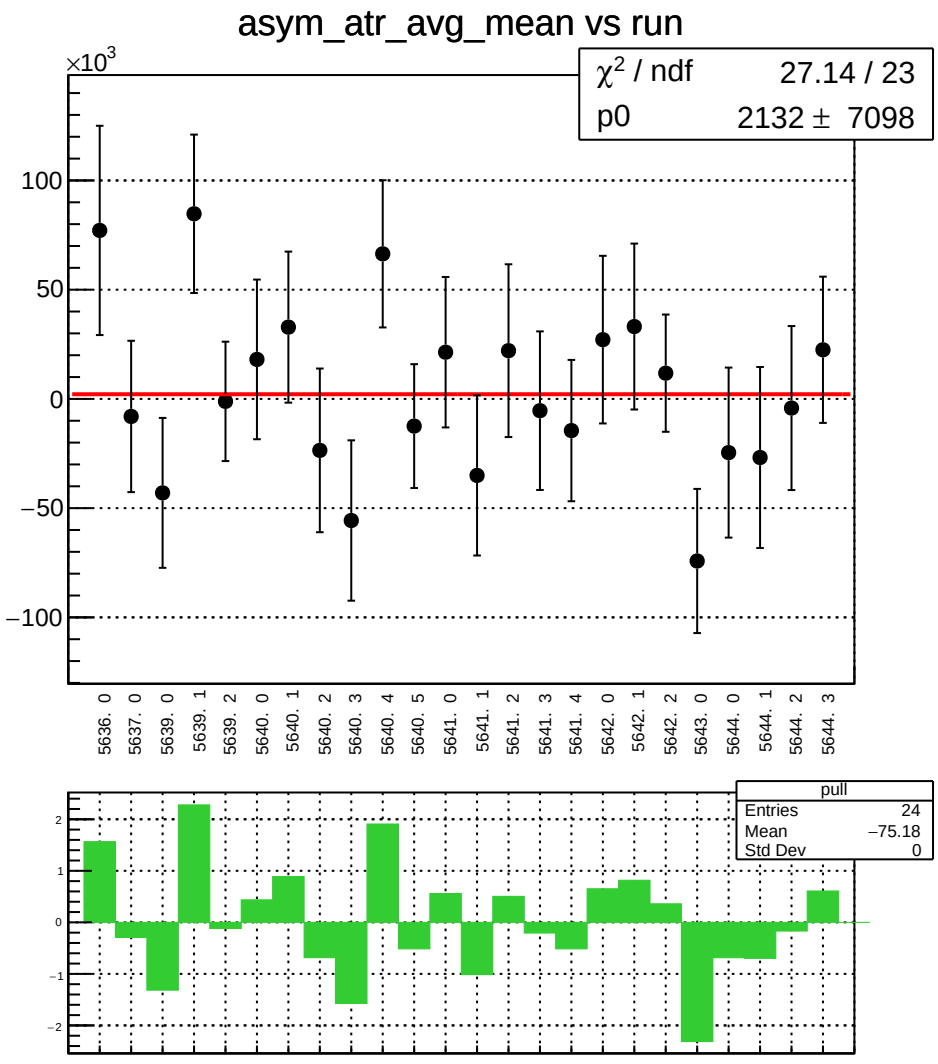

pull1D
Entries 24
Mean −0.007742
Std Dev 0.85
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

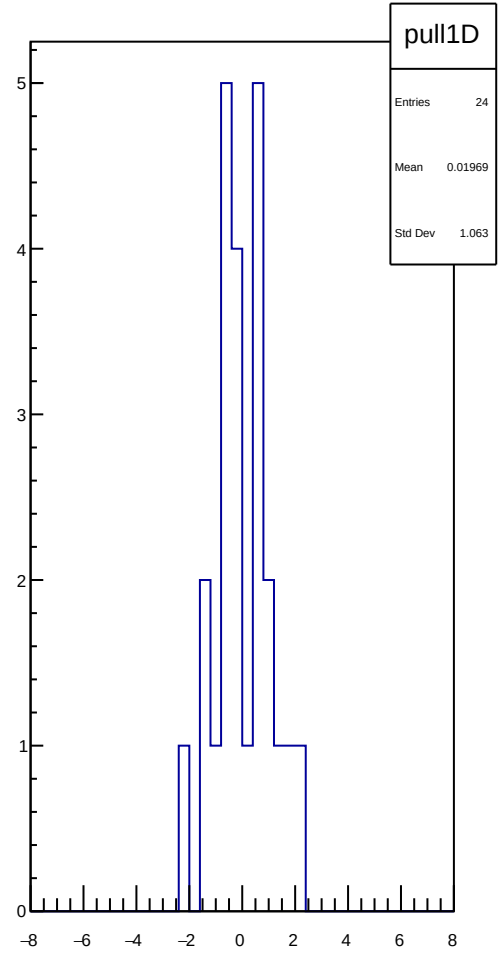

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 59.12 / 23
p0 1651 ± 2.378
1720
1700
1680
1660
1640
1620
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

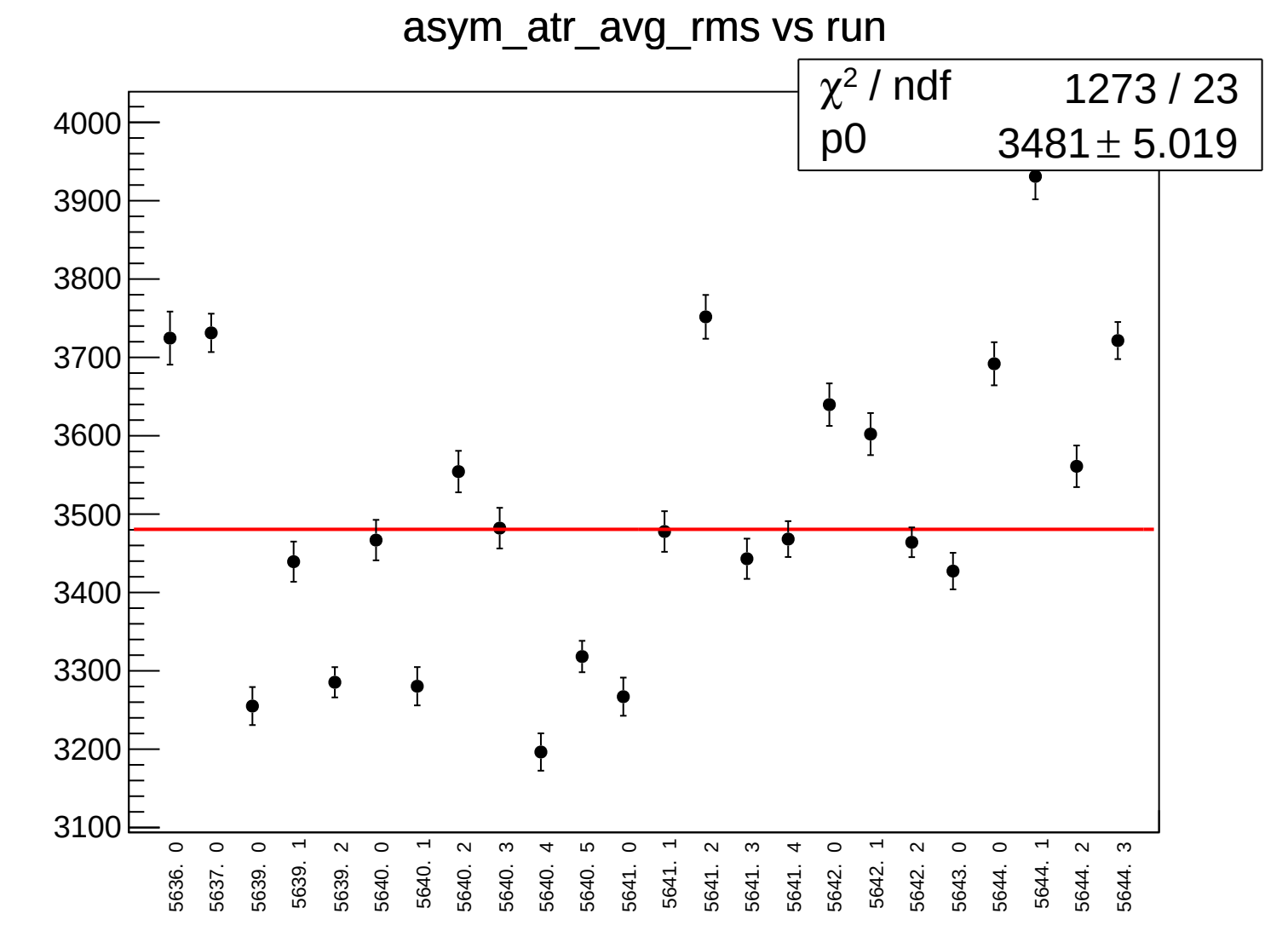

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 22.23 / 23
p0 −3740 ± 6269
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −62.32
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

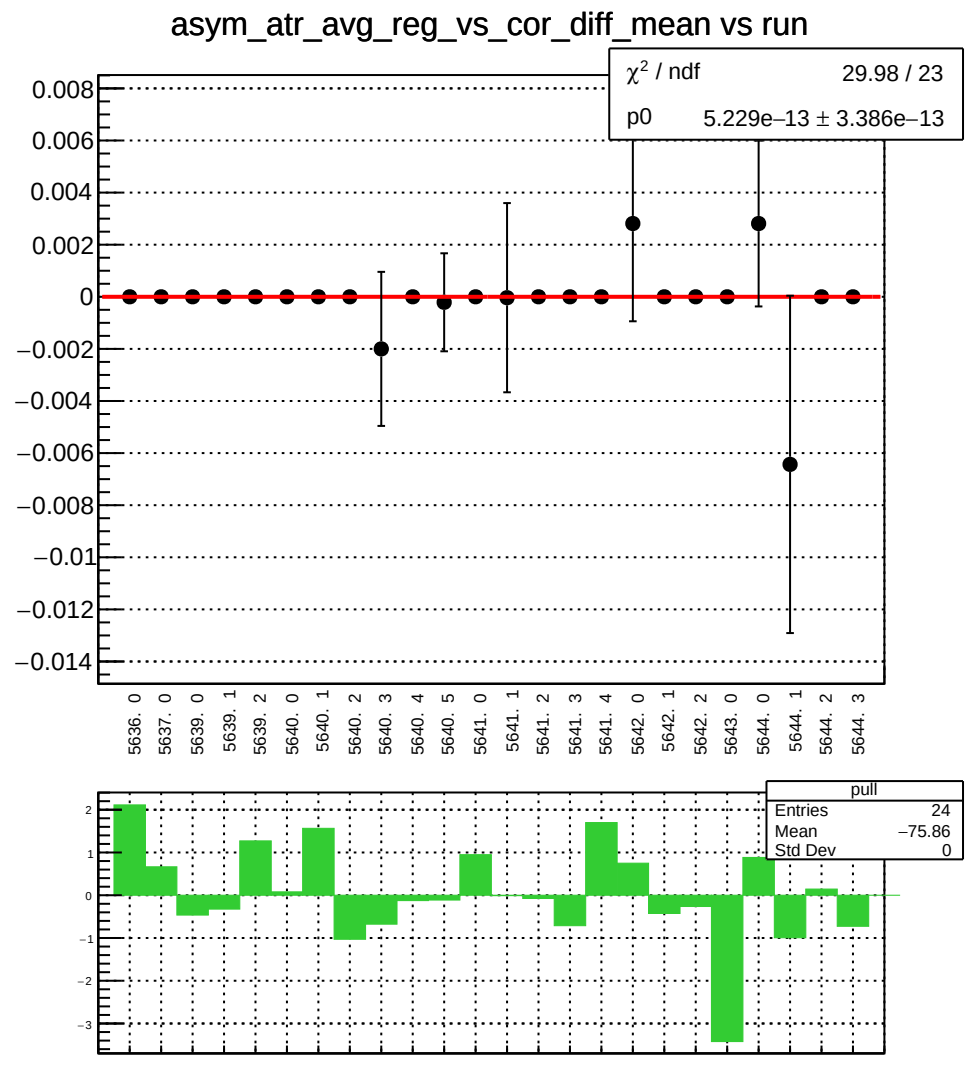

pull1D
Entries 24
Mean −0.03213
Std Dev 0.962
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

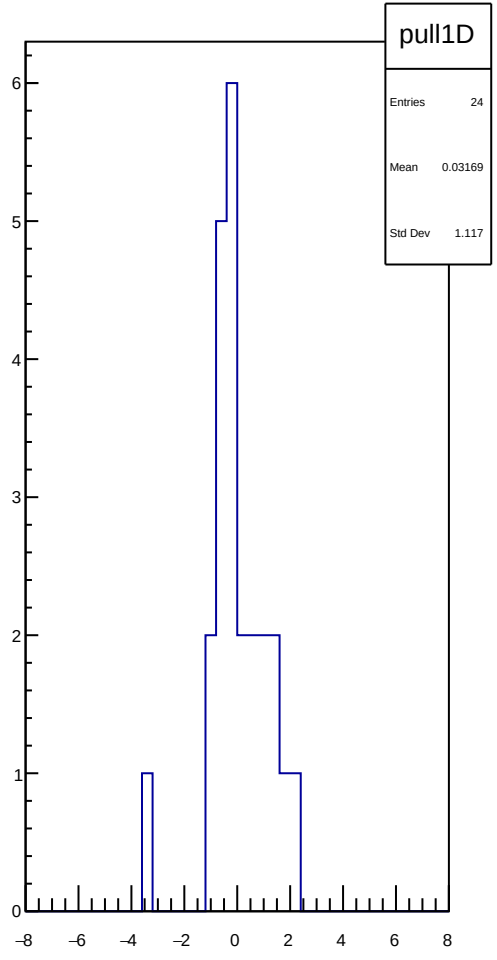

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 1664 / 23
p0 3073 ± 4.433
3600
3400
3200
3000
2800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

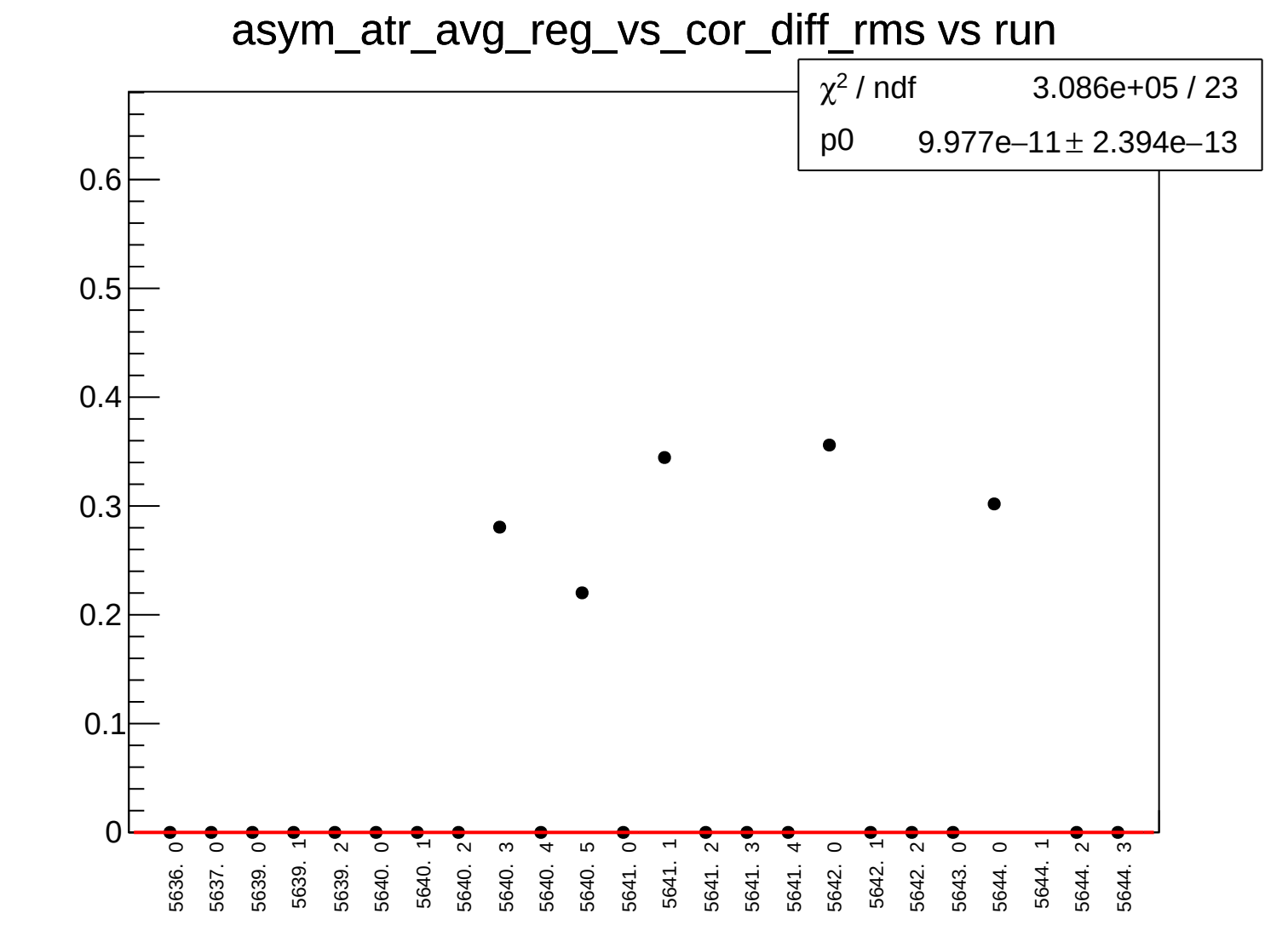

asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 27.14 / 23
p0 2132 ± 7098
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −75.18
Std Dev 0
2
1
0
−1
−2

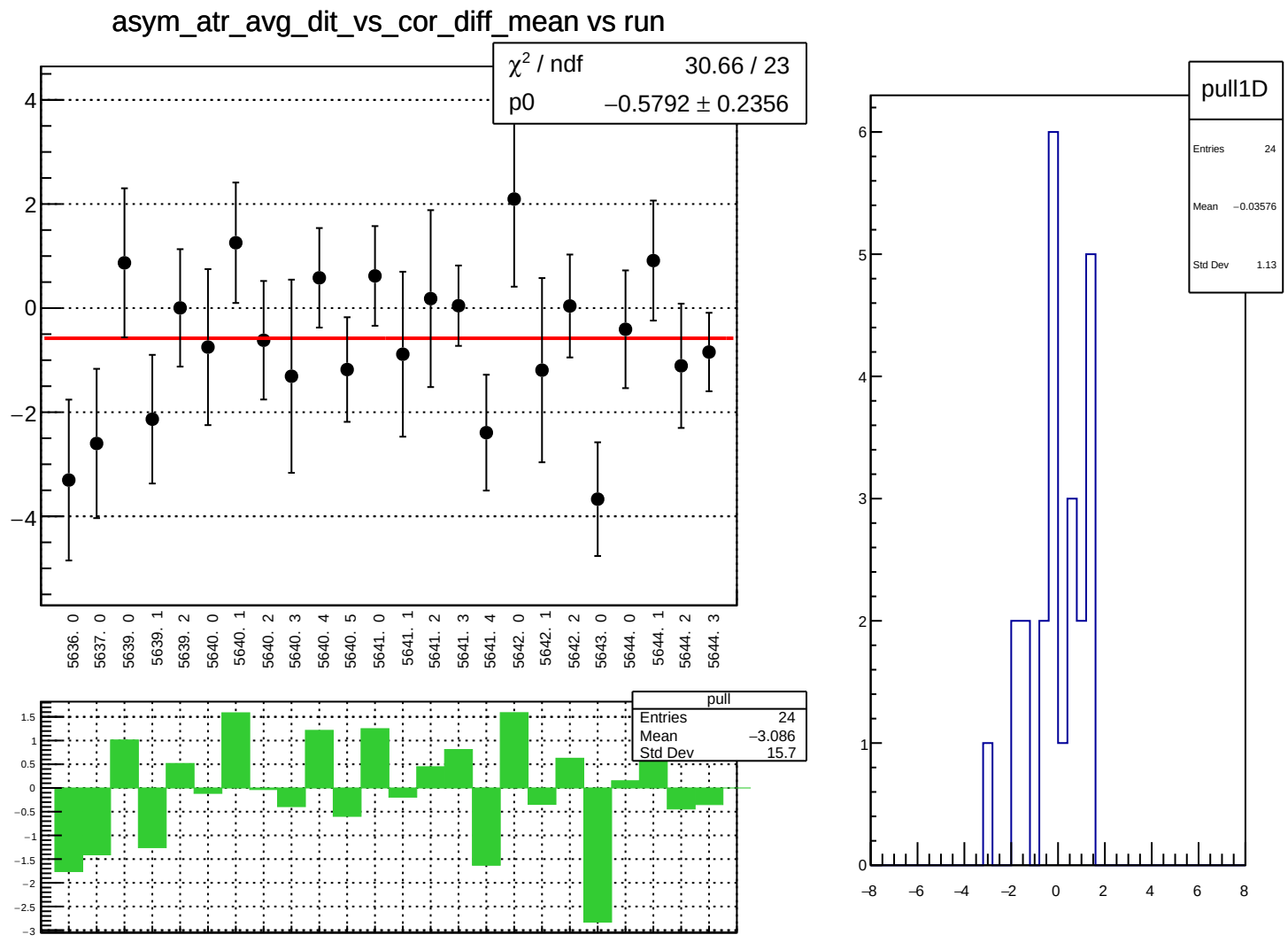

pull1D
Entries 24
Mean 0.01969
Std Dev 1.063
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

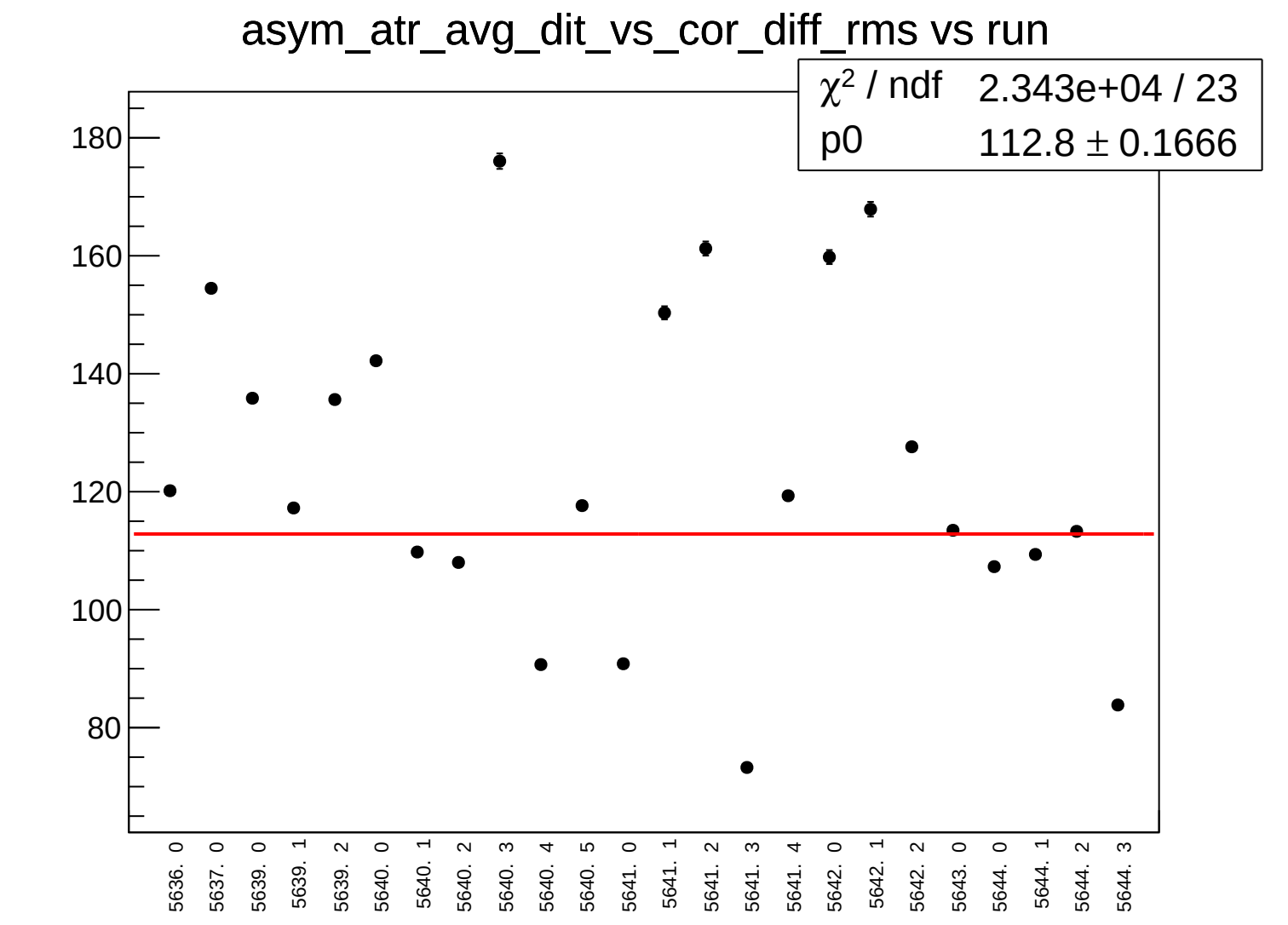

asym_atr_avg_rms vs run
χ² / ndf 1273 / 23
p0 3481 ± 5.019
4000
3900
3800
3700
3600
3500
3400
3300
3200
3100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

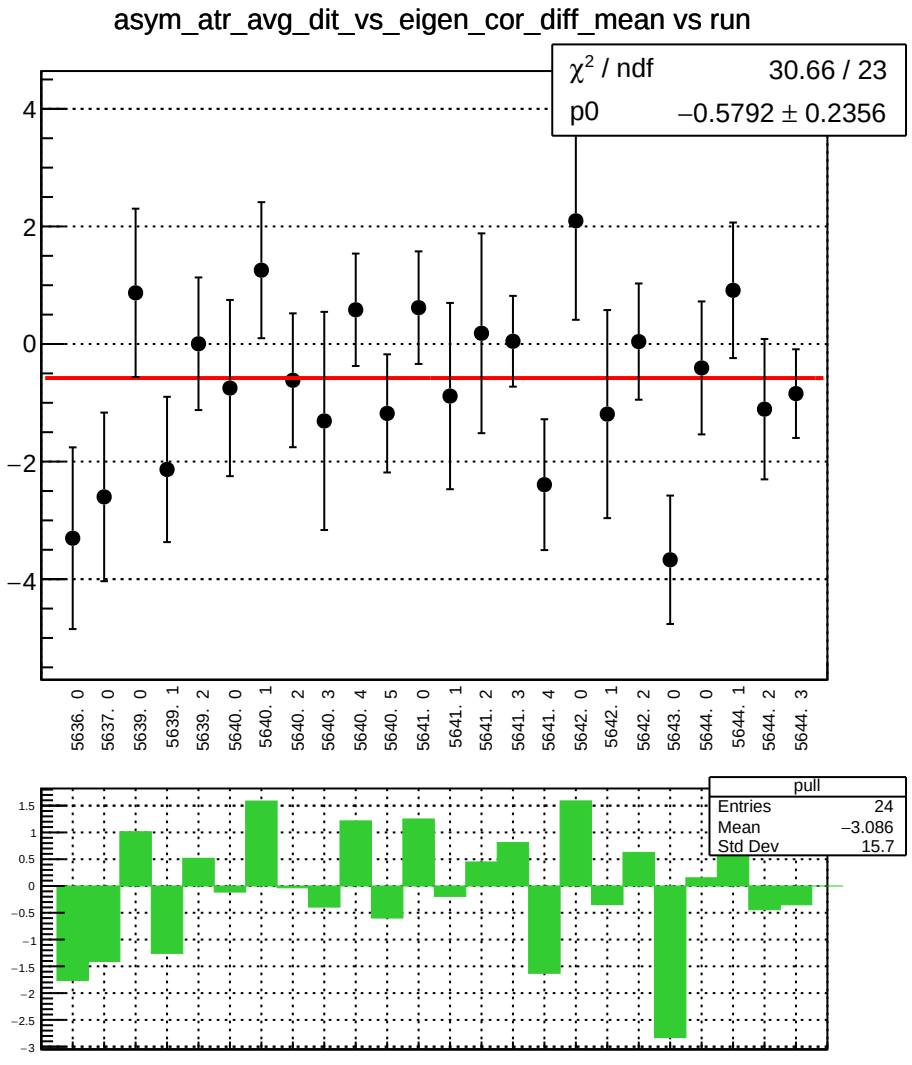

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 29.98 / 23
p0 5.229e−13 ± 3.386e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
−0.012
−0.014
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −75.86
Std Dev 0
2
1
0
−1
−2
−3

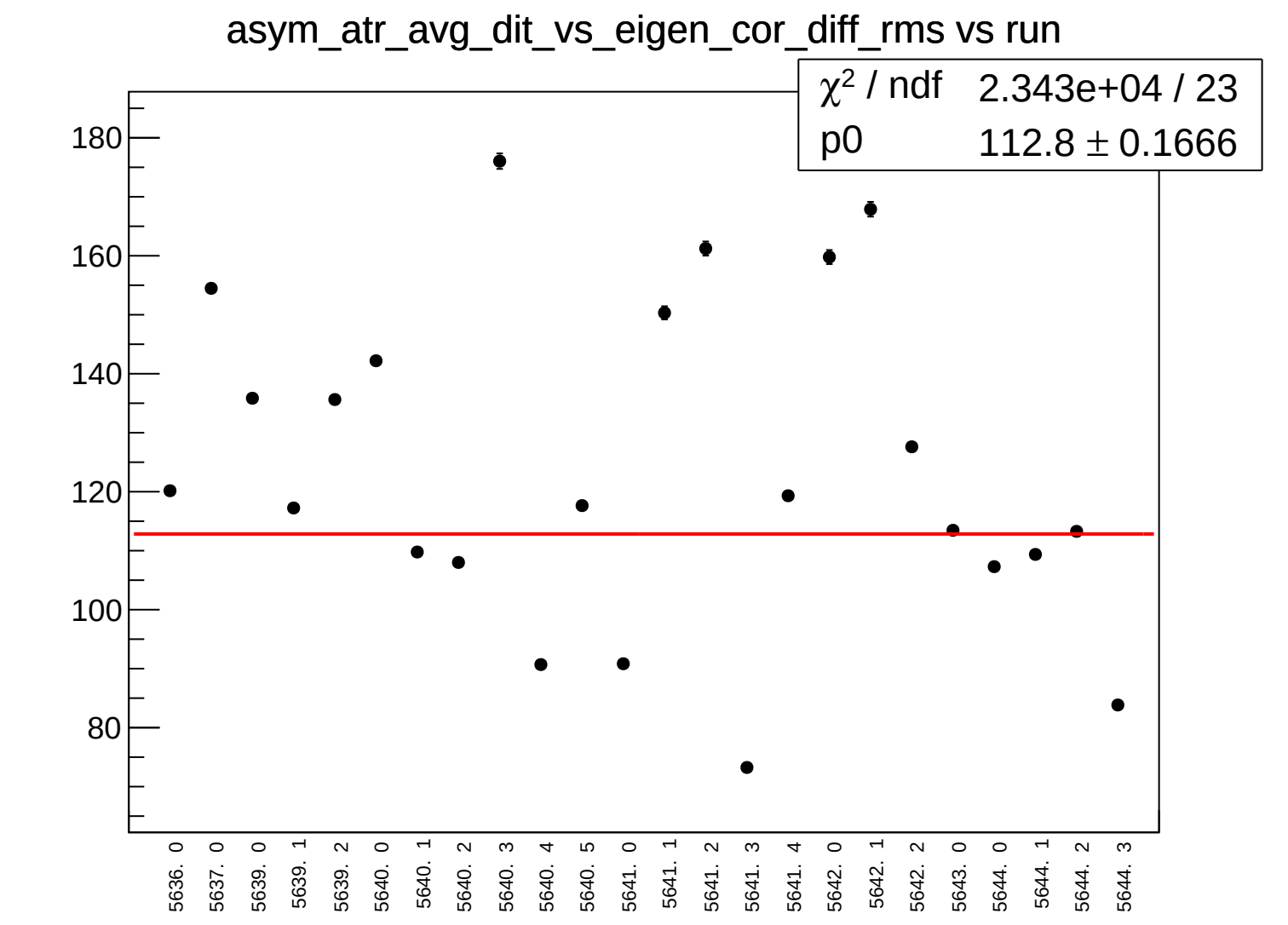

pull1D
Entries 24
Mean 0.03169
Std Dev 1.117
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

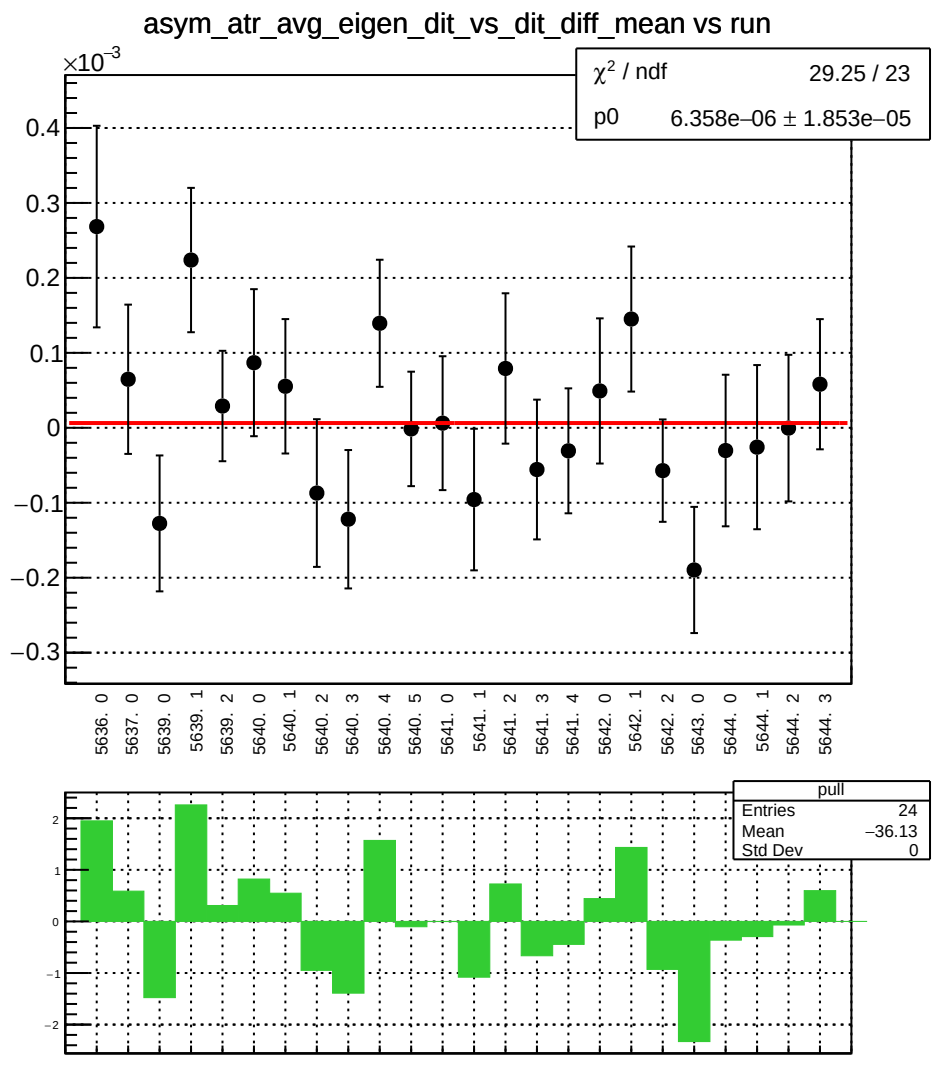

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ2 / ndf 3.086e+05 / 23
p0 9.977e−11 ± 2.394e−13
0.6
0.5
0.4
0.3
0.2
0.1
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

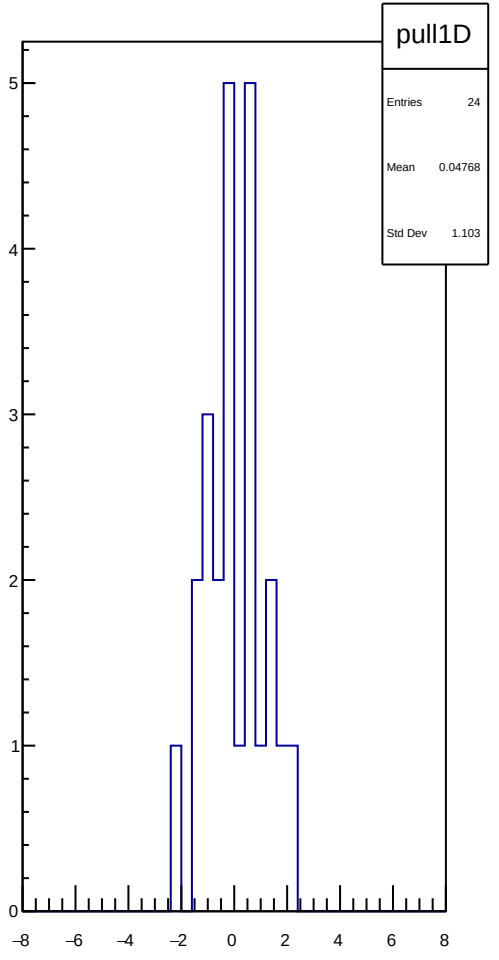

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 30.66 / 23
p0 −0.5792 ± 0.2356
4
2
0
−2
−4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −3.086
Std Dev 15.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 24
Mean −0.03576
Std Dev 1.13
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

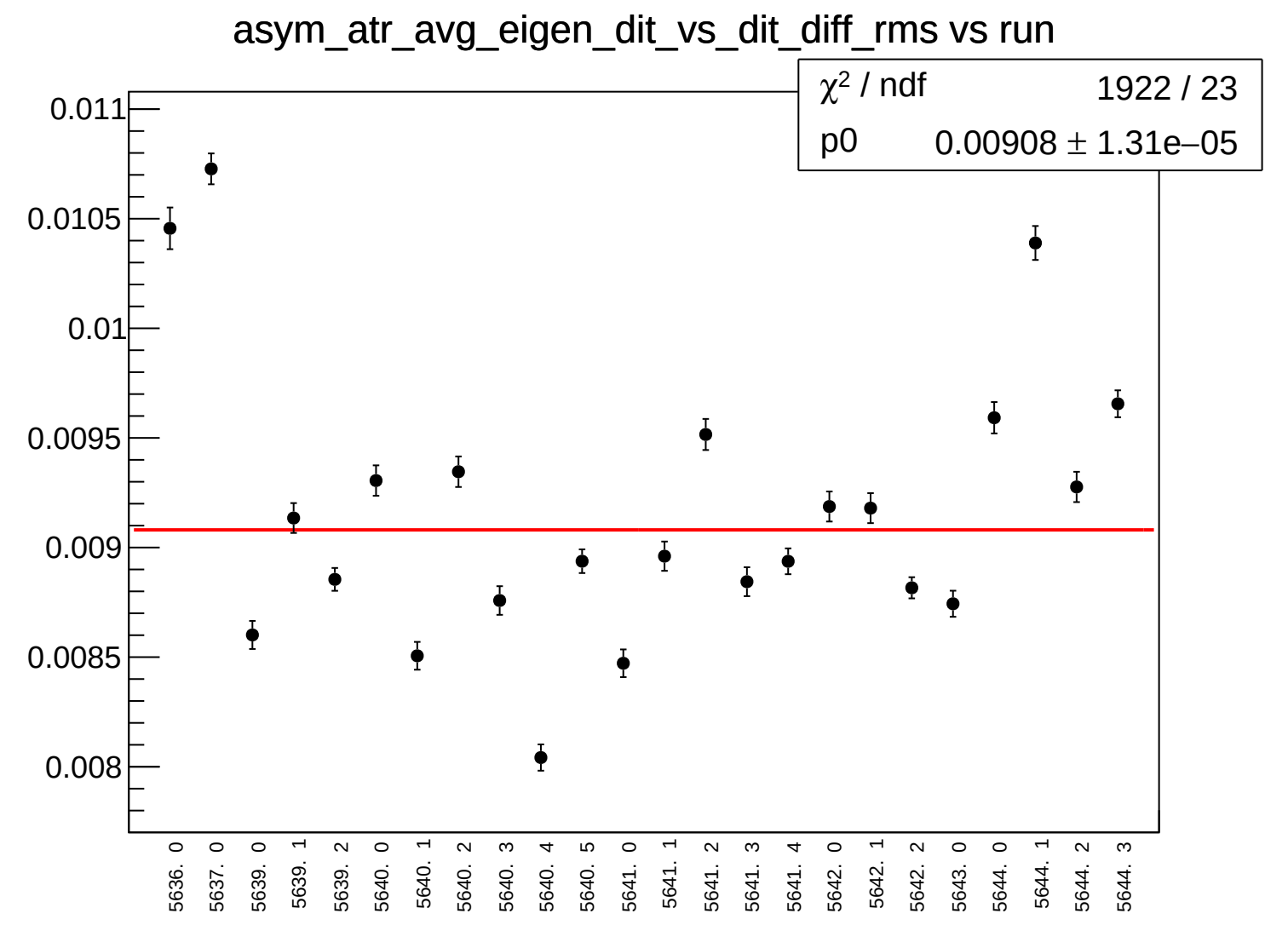

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.343e+04 / 23
p0 112.8 ± 0.1666
180
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

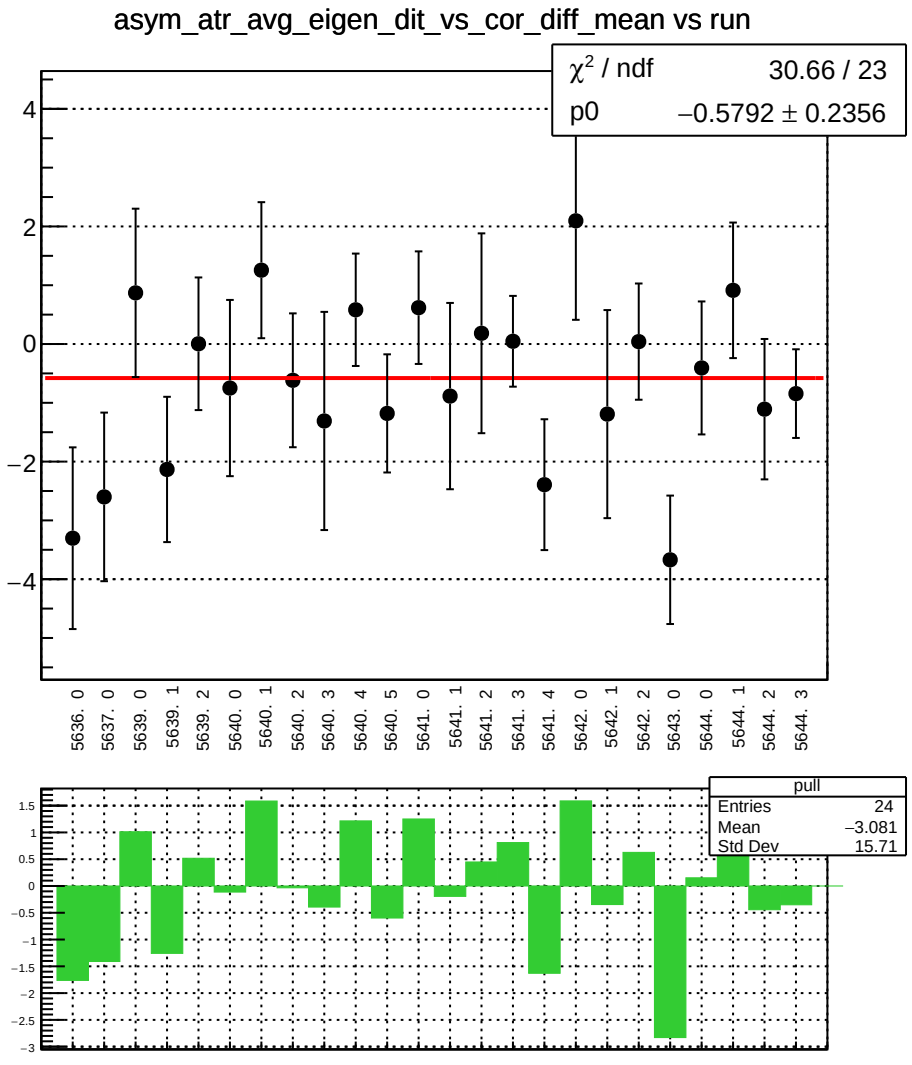

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.66 / 23
p0 −0.5792 ± 0.2356
4
2
0
−2
−4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −3.086
Std Dev 15.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 24
Mean −0.03576
Std Dev 1.13
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

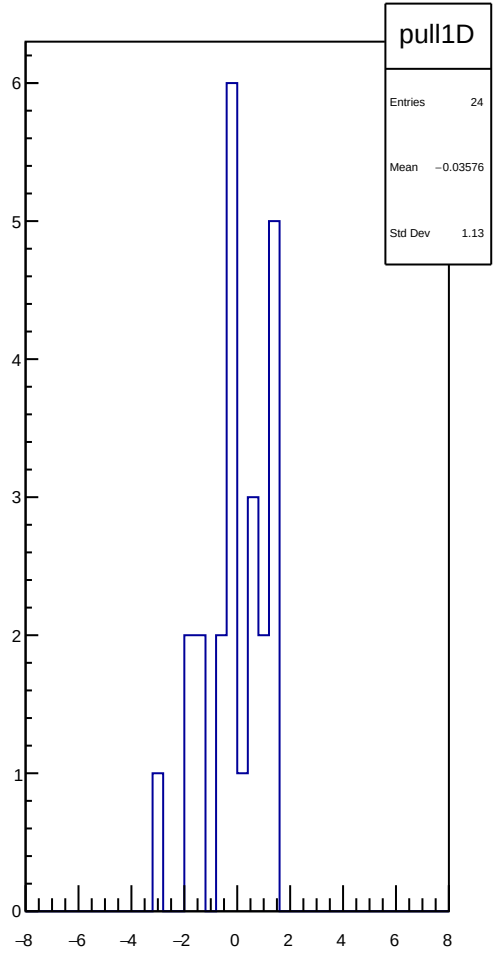

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.343e+04 / 23
p0 112.8 ± 0.1666
180
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

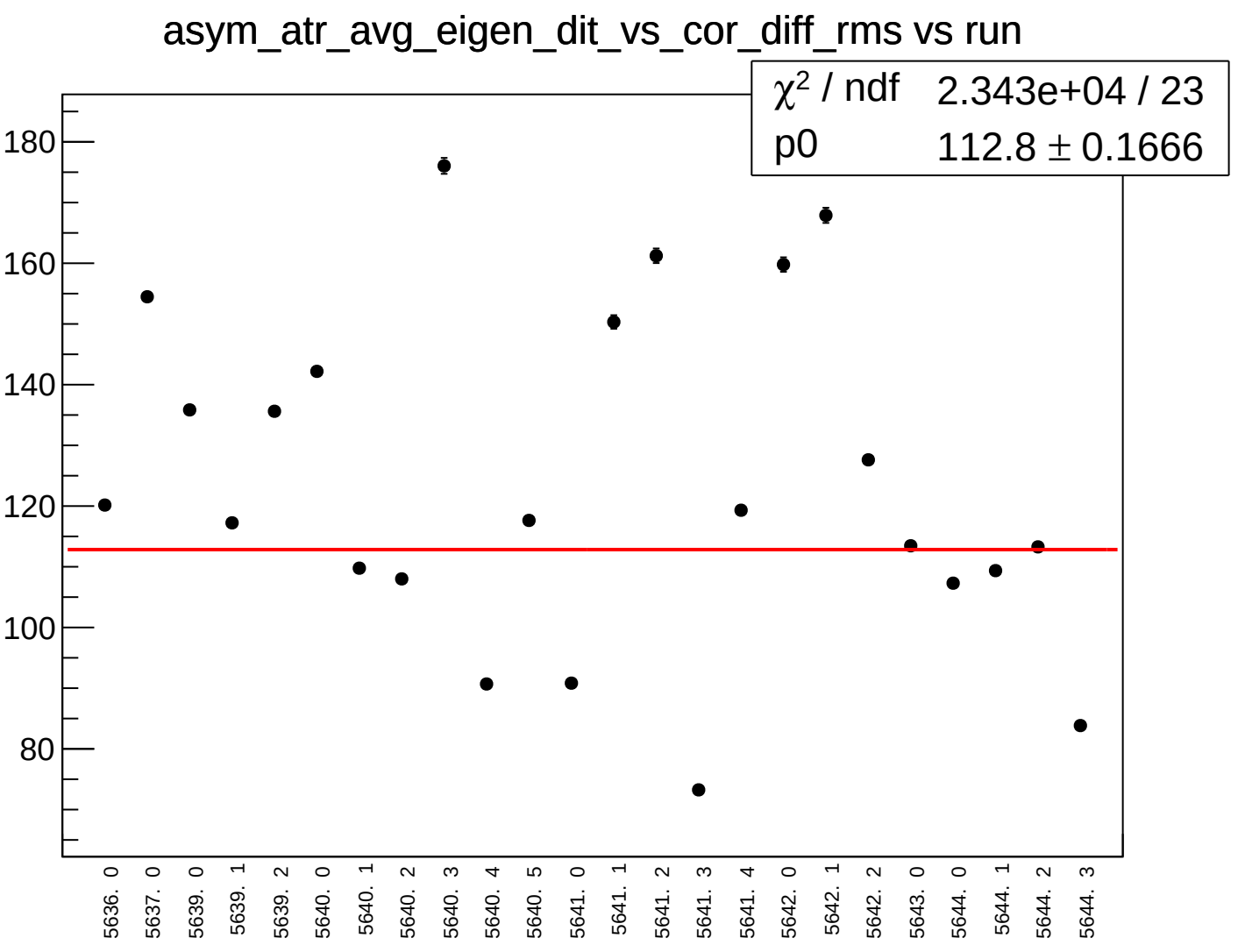

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 29.25 / 23
p0 6.358e−06 ± 1.853e−05
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −36.13
Std Dev 0
2
1
0
−1
−2

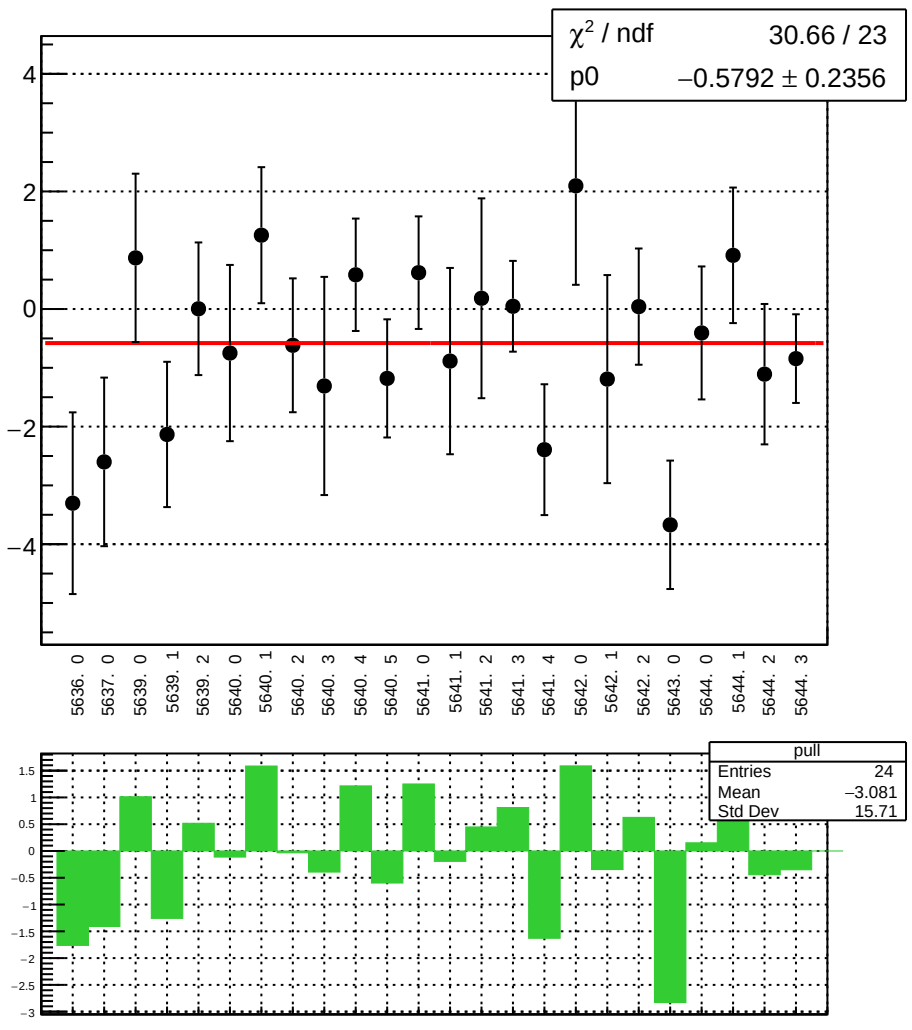

pull1D
Entries 24
Mean 0.04768
Std Dev 1.103
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

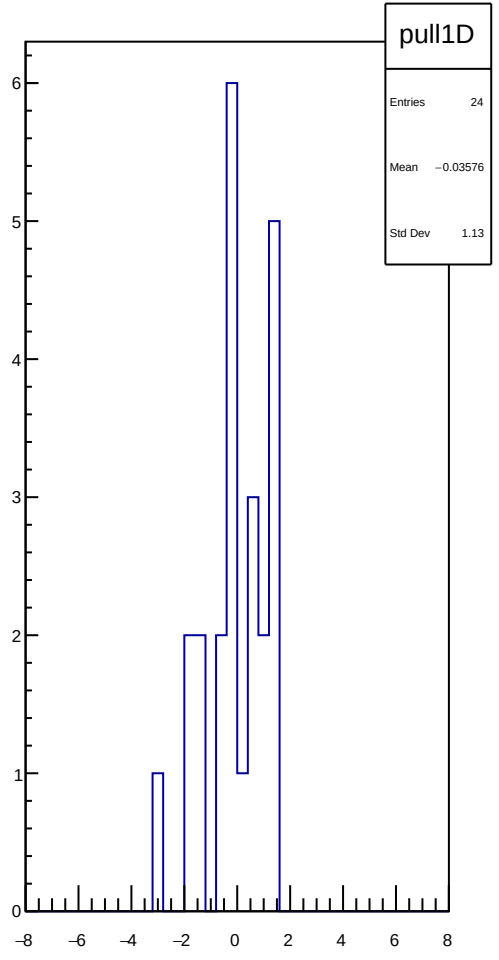

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1922 / 23
p0 0.00908 ± 1.31e−05
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

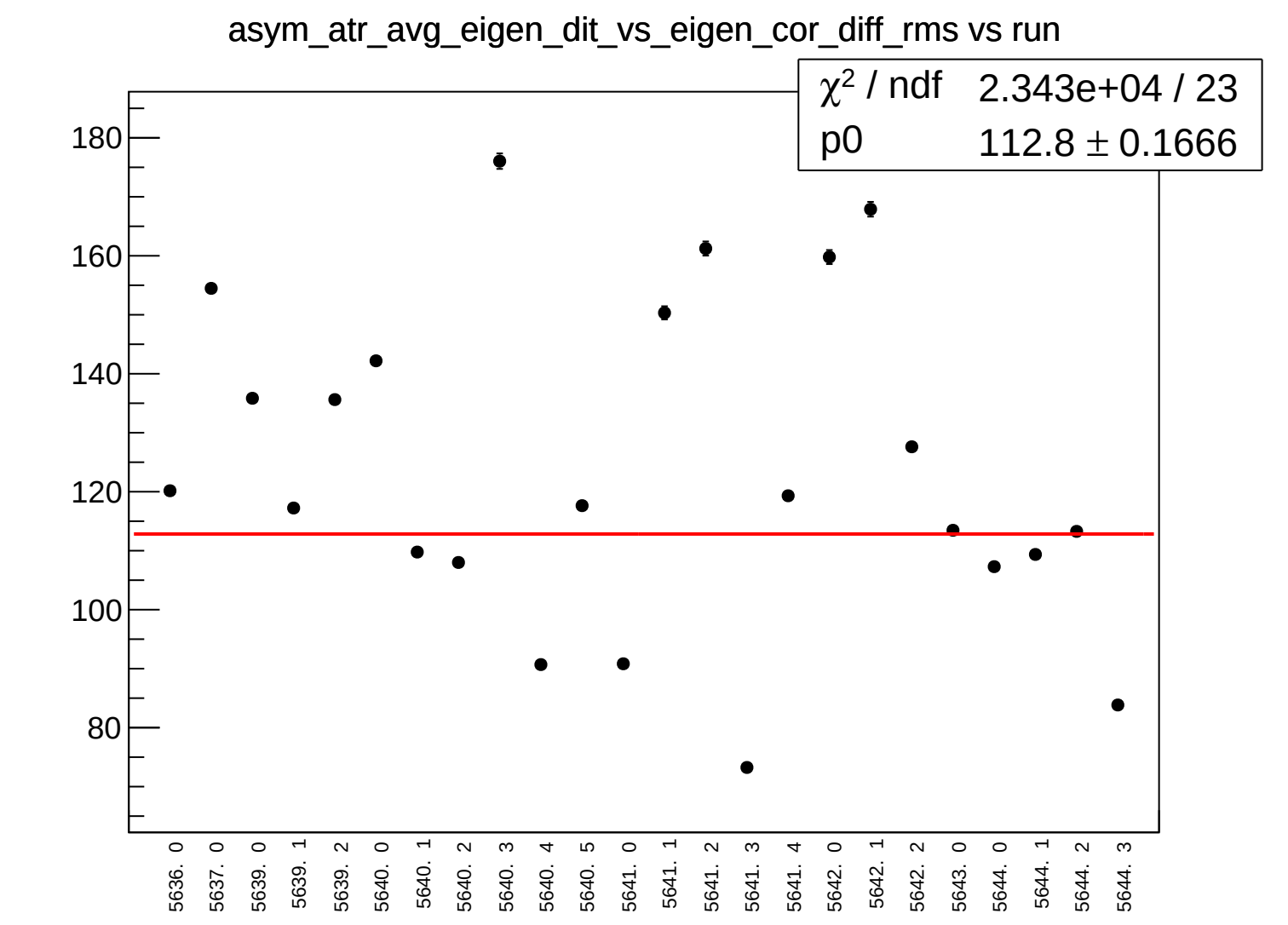

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 30.66 / 23
p0 −0.5792 ± 0.2356
4
2
0
−2
−4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −3.081
Std Dev 15.71
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

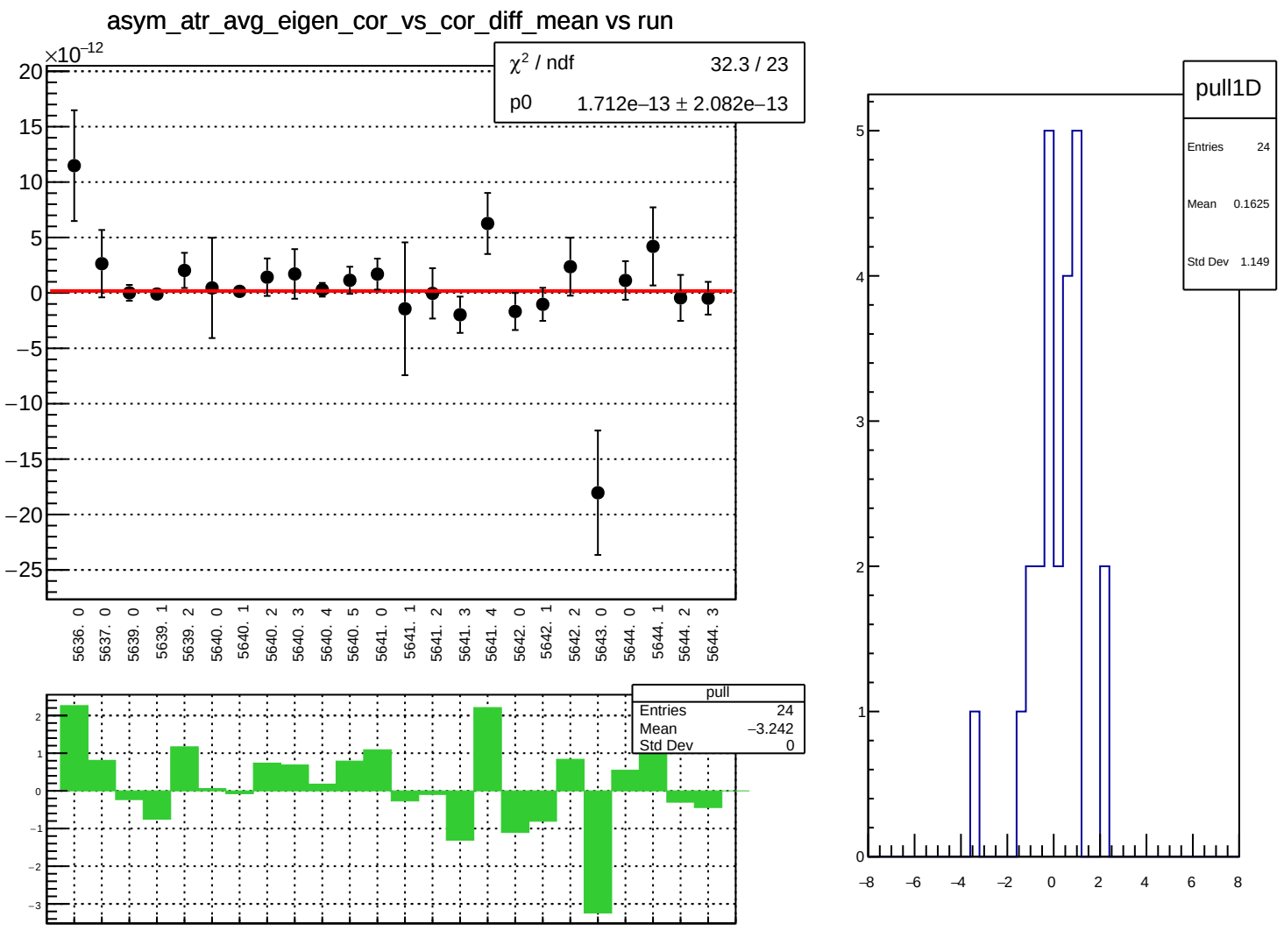

pull1D
Entries 24
Mean −0.03576
Std Dev 1.13
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

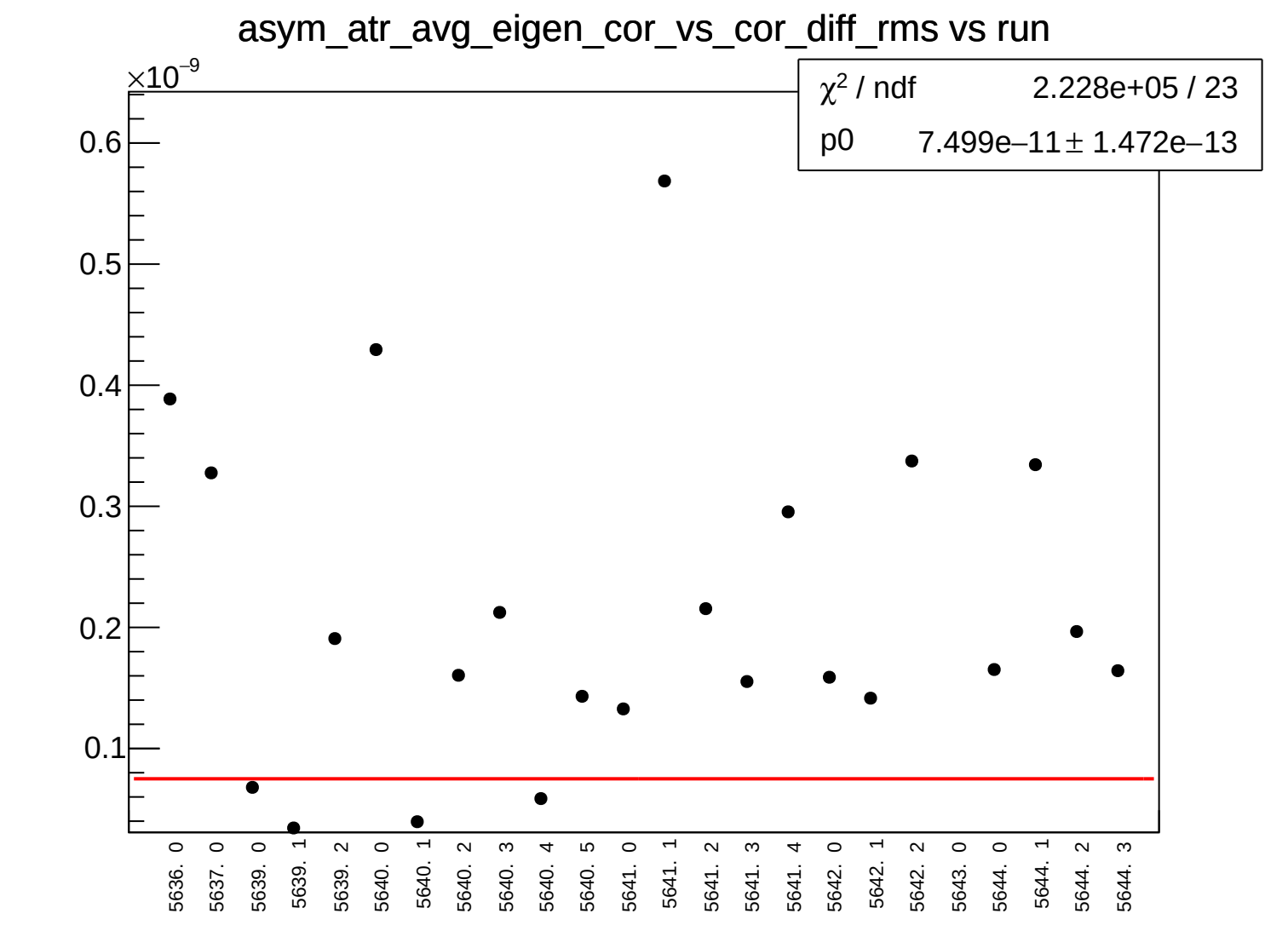

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.343e+04 / 23
p0 112.8 ± 0.1666
180
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

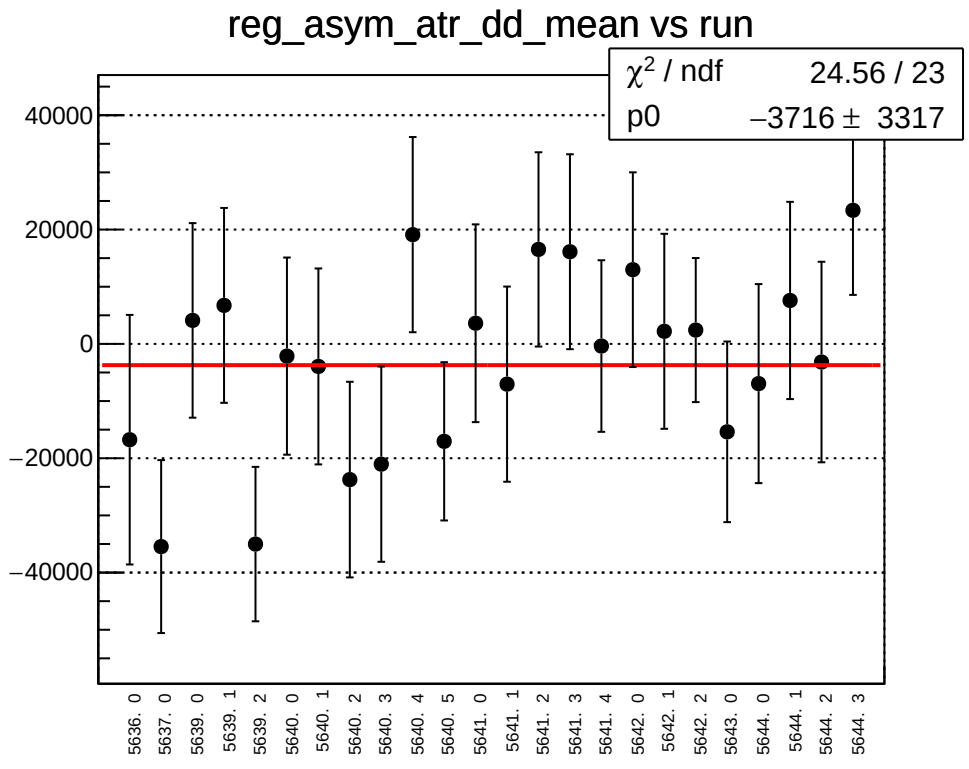

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.66 / 23
p0 −0.5792 ± 0.2356
4
2
0
−2
−4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −3.081
Std Dev 15.71
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

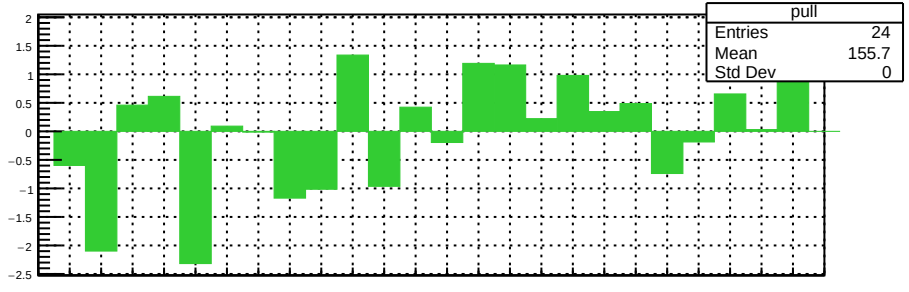

pull1D
Entries 24
Mean −0.03576
Std Dev 1.13
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

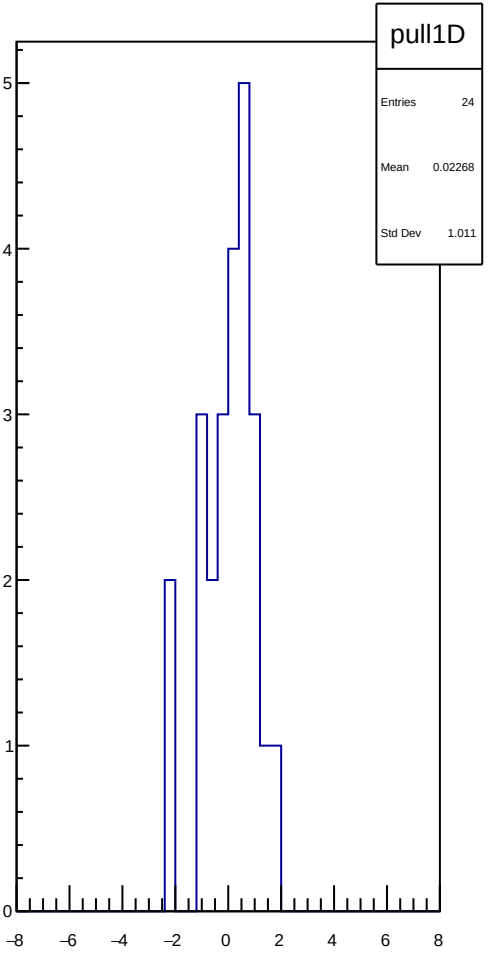

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.343e+04 / 23
p0 112.8 ± 0.1666
180
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

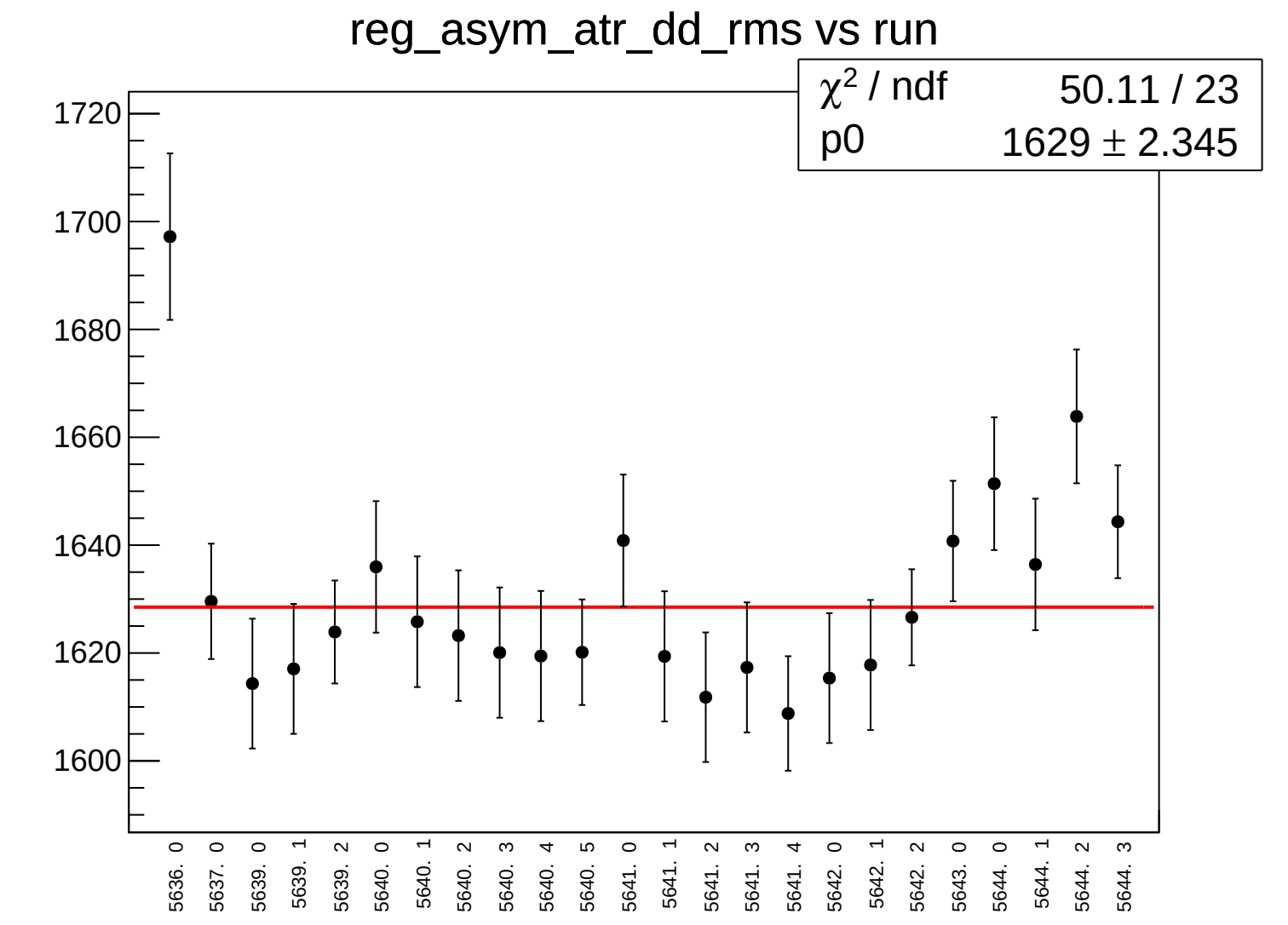

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10^-12
χ² / ndf 32.3 / 23
p0 1.712e−13 ± 2.082e−13
20
15
10
5
0
−5
−10
−15
−20
−25
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −3.242
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean 0.1625
Std Dev 1.149
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

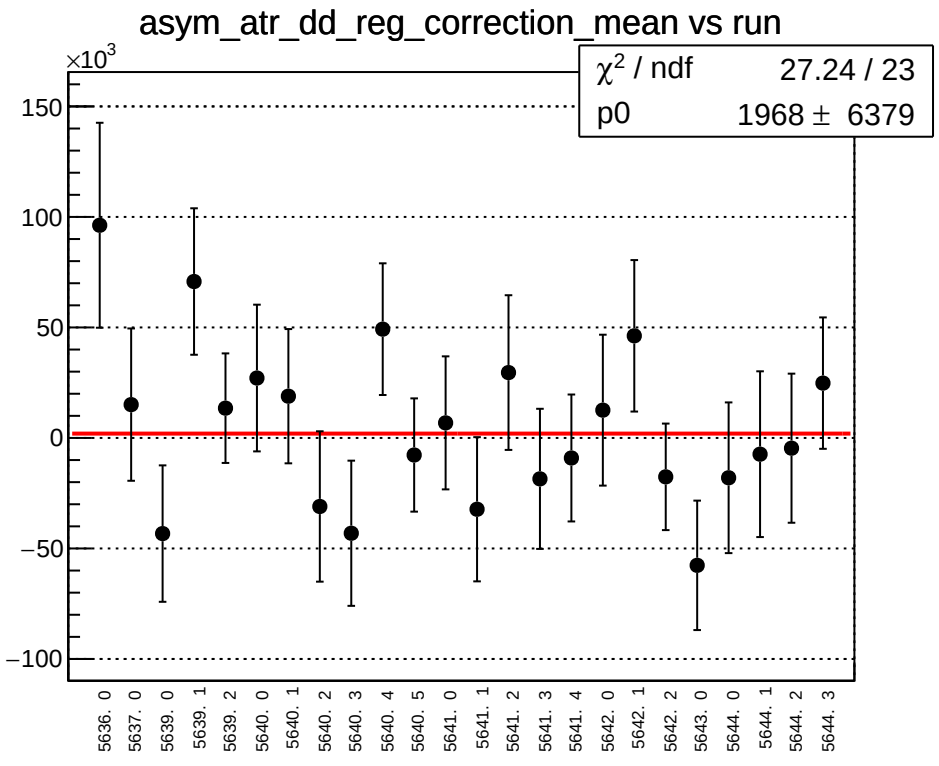

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.228e+05 / 23
p0 7.499e−11 ± 1.472e−13
0.6
0.5
0.4
0.3
0.2
0.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

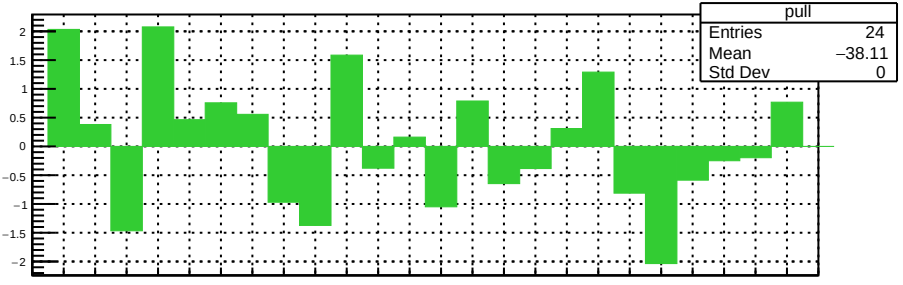

reg_asym_atr_dd_mean vs run
χ² / ndf 24.56 / 23
p0 −3716 ± 3317
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

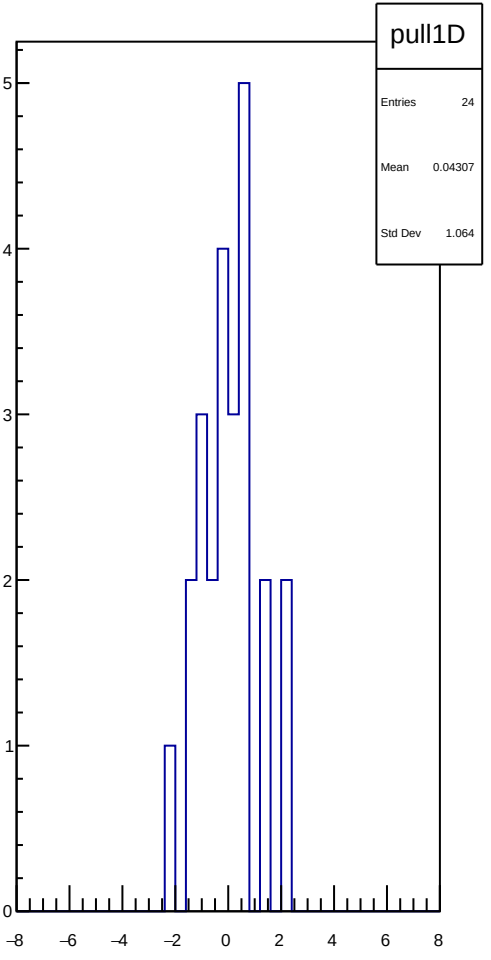

pull
Entries 24
Mean 155.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

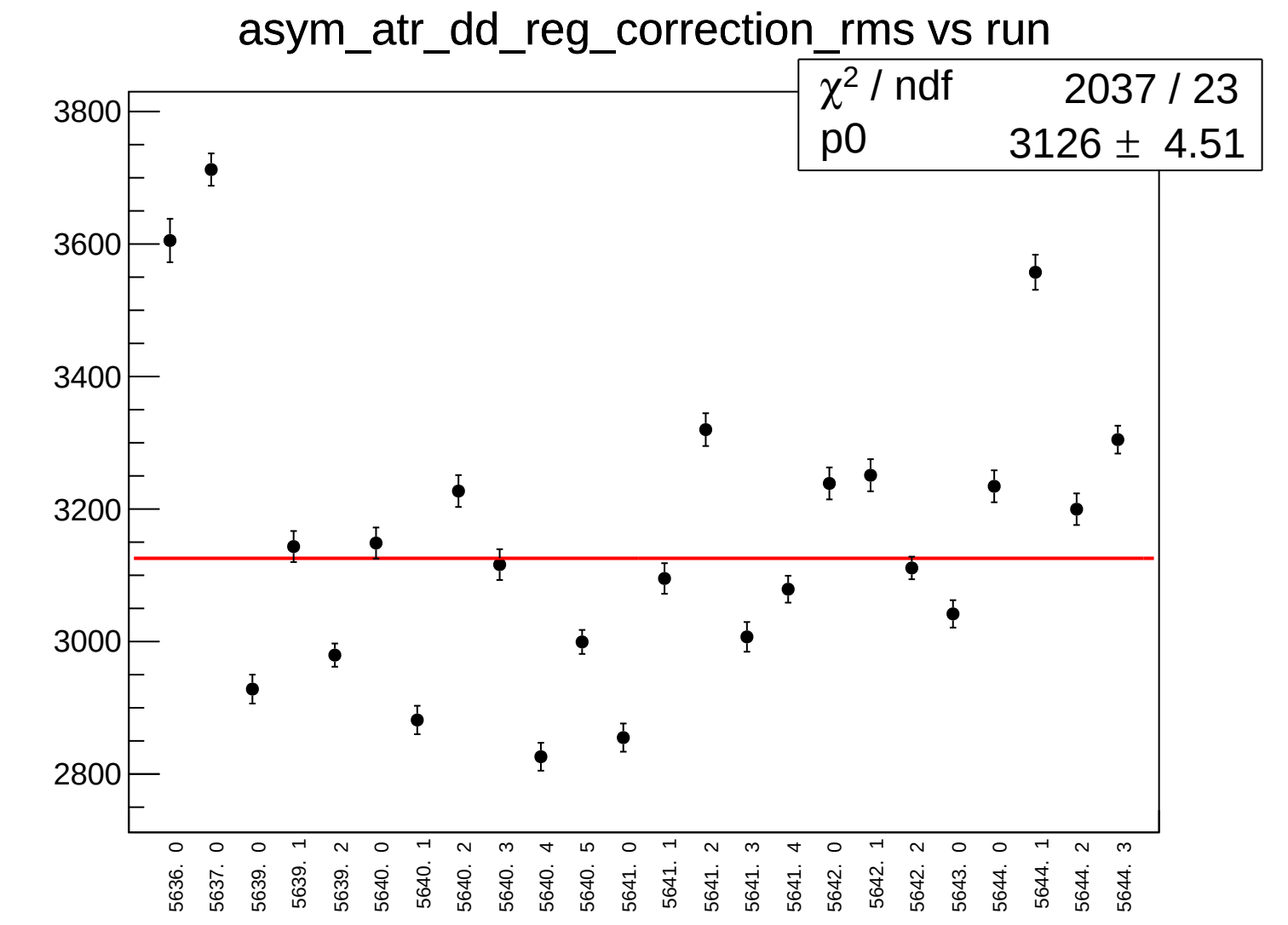

pull1D
Entries 24
Mean 0.02268
Std Dev 1.011
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

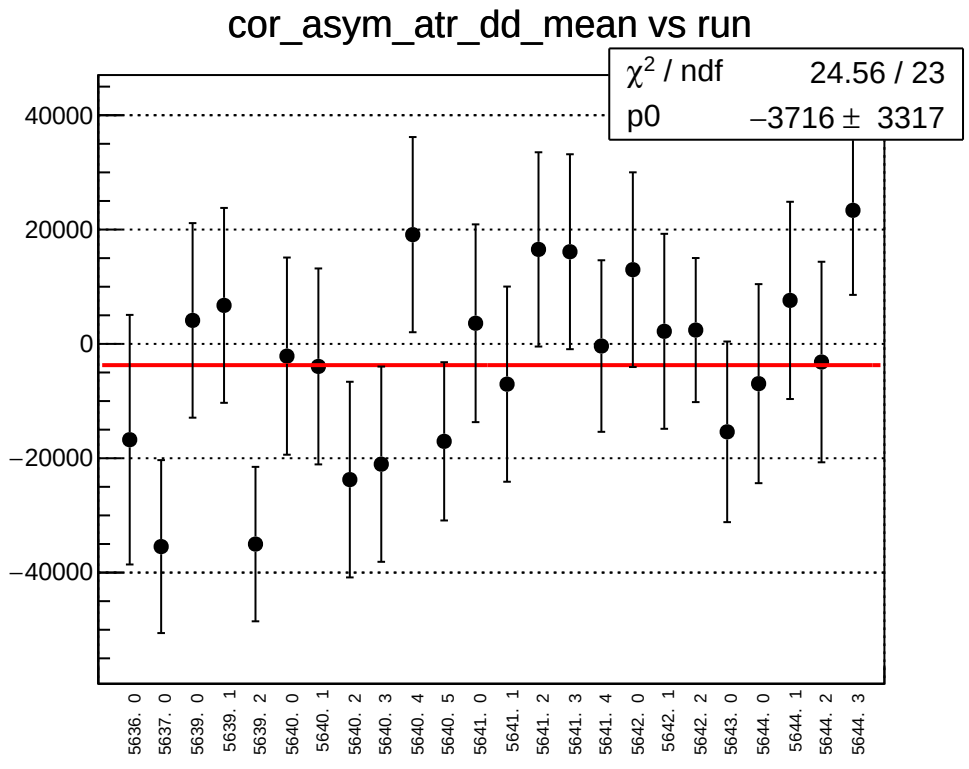

reg_asym_atr_dd_rms vs run
χ² / ndf 50.11 / 23
p0 1629 ± 2.345
1720
1700
1680
1660
1640
1620
1600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

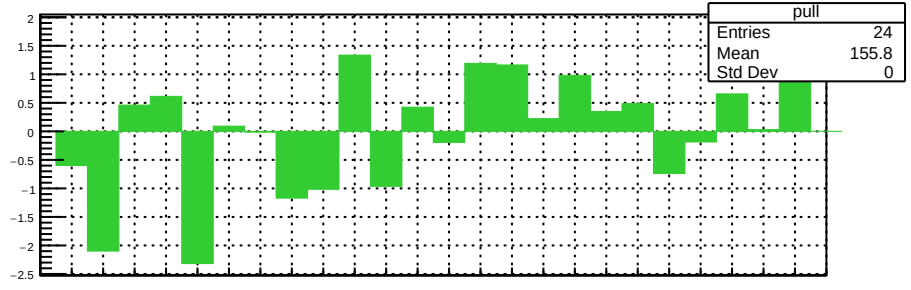

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 27.24 / 23
p0 1968 ± 6379
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

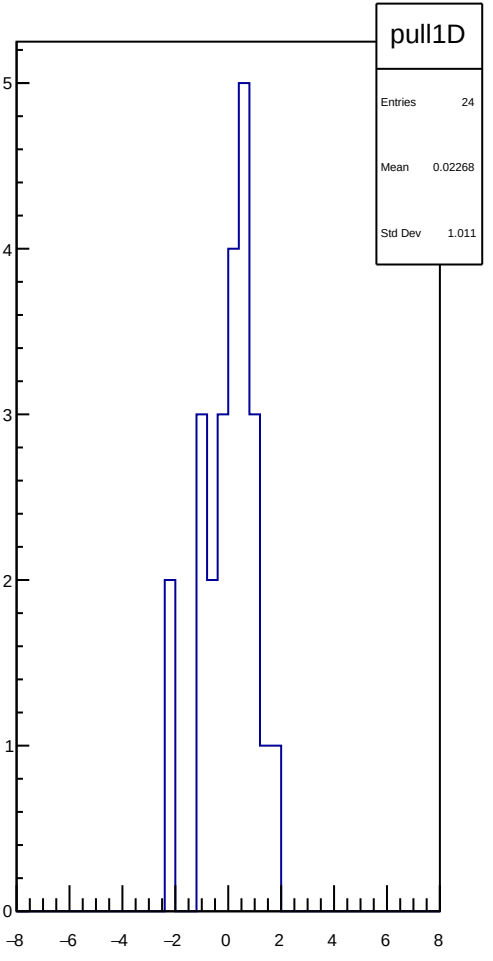

pull
Entries 24
Mean −38.11
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

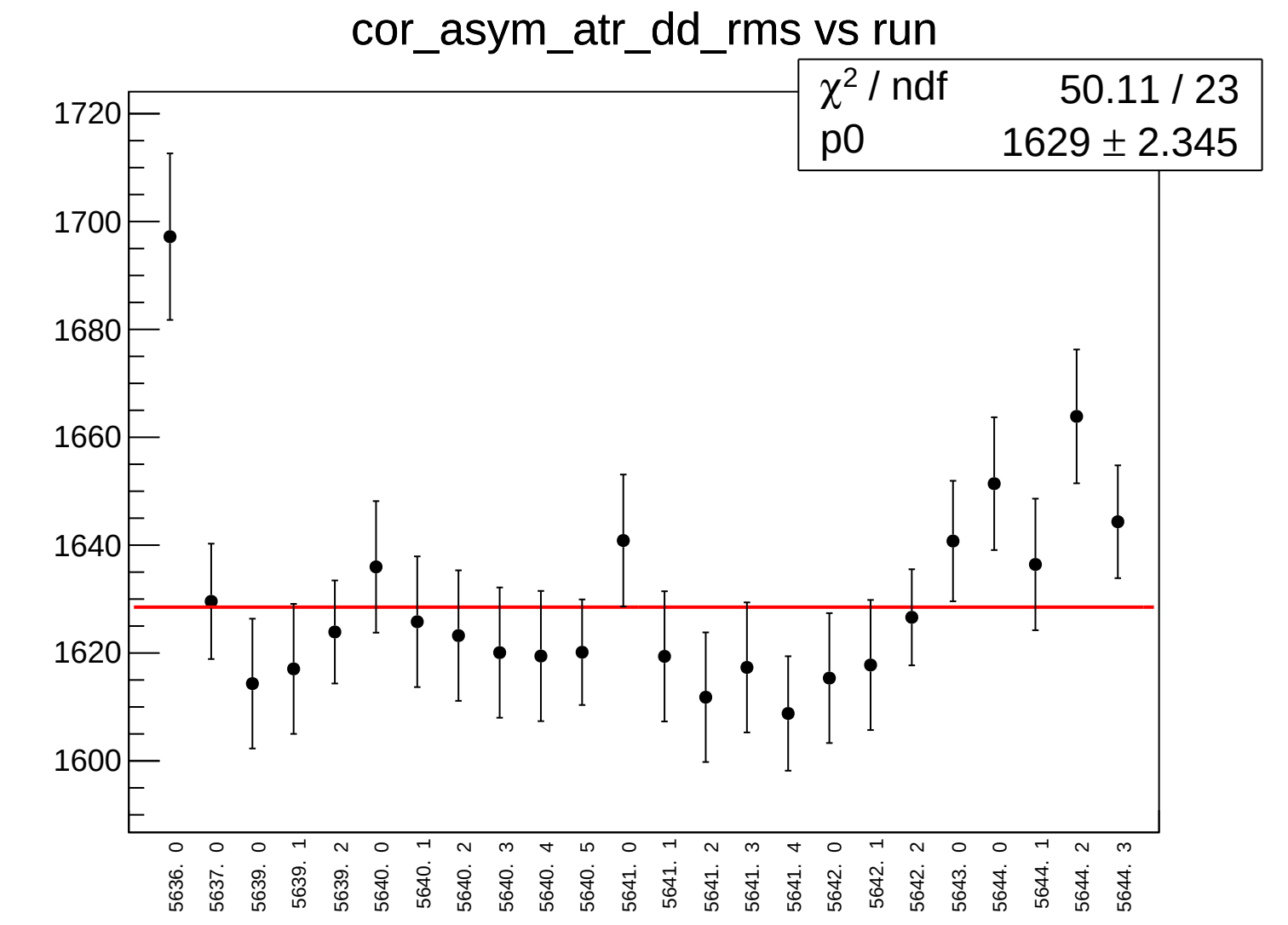

pull1D
Entries 24
Mean 0.04307
Std Dev 1.064
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

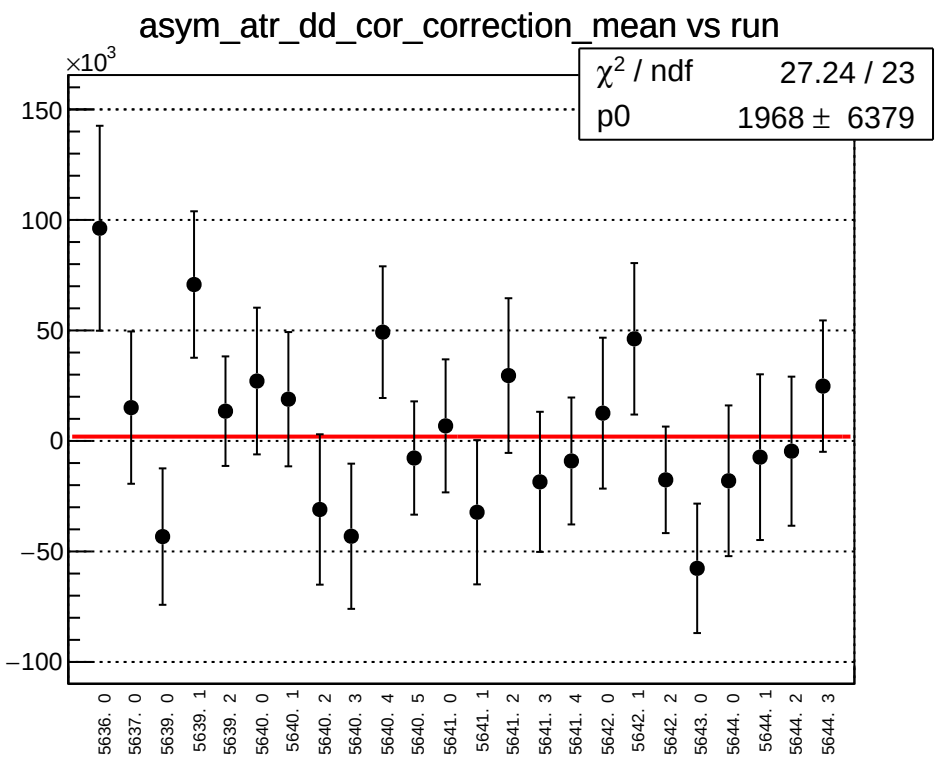

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 2037 / 23
p0 3126 ± 4.51
3800
3600
3400
3200
3000
2800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

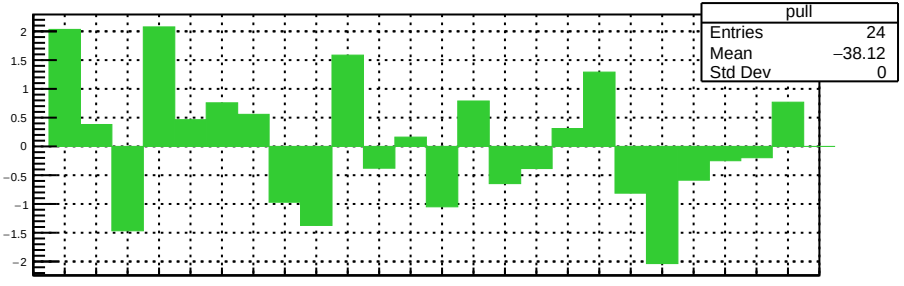

cor_asym_atr_dd_mean vs run
χ² / ndf 24.56 / 23
p0 −3716 ± 3317
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

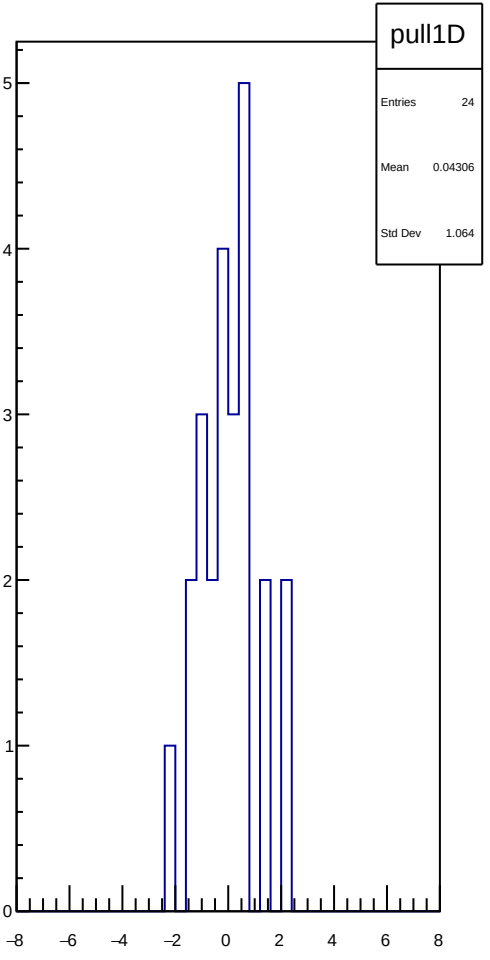

pull
Entries 24
Mean 155.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

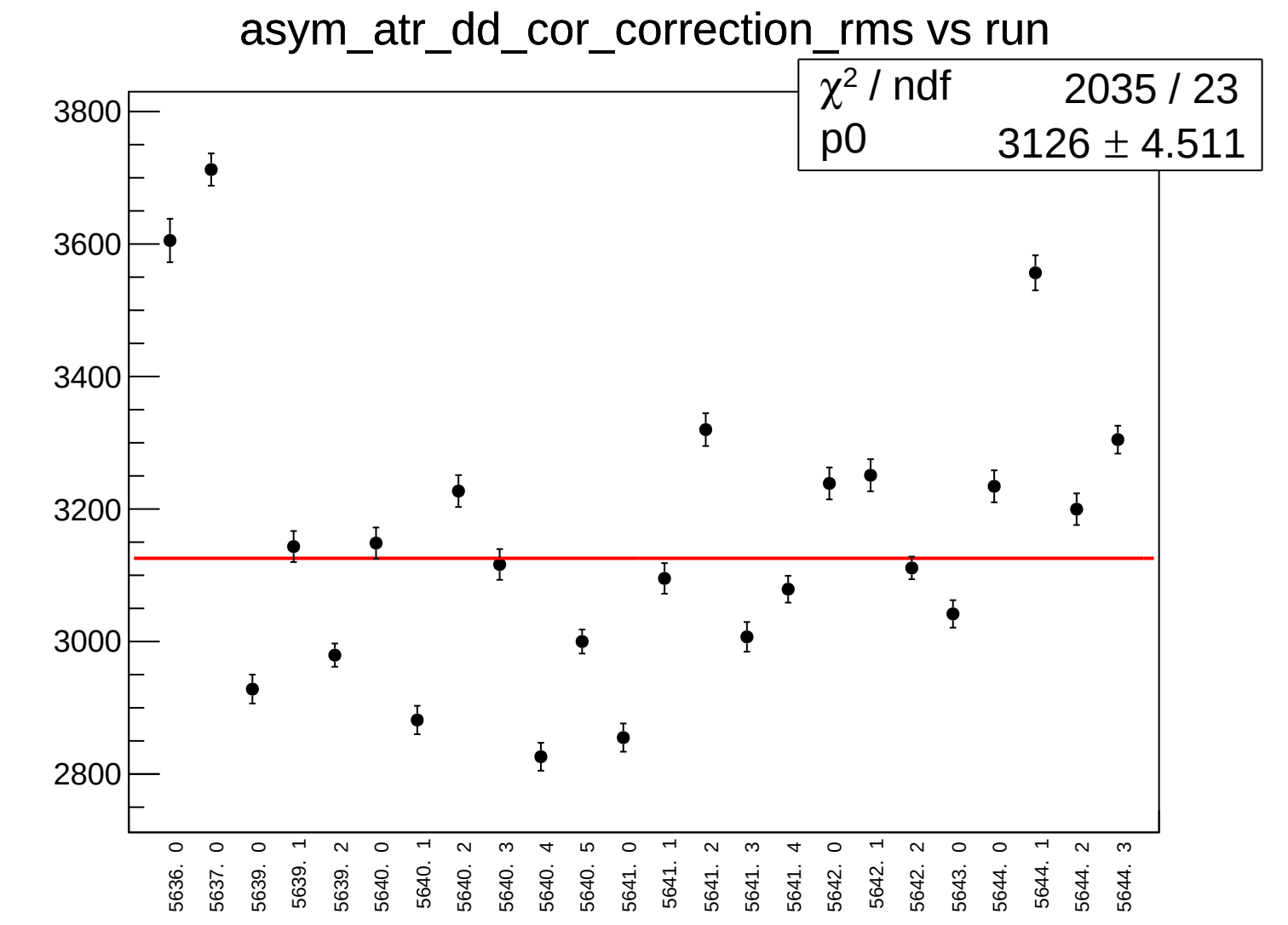

pull1D
Entries 24
Mean 0.02268
Std Dev 1.011
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

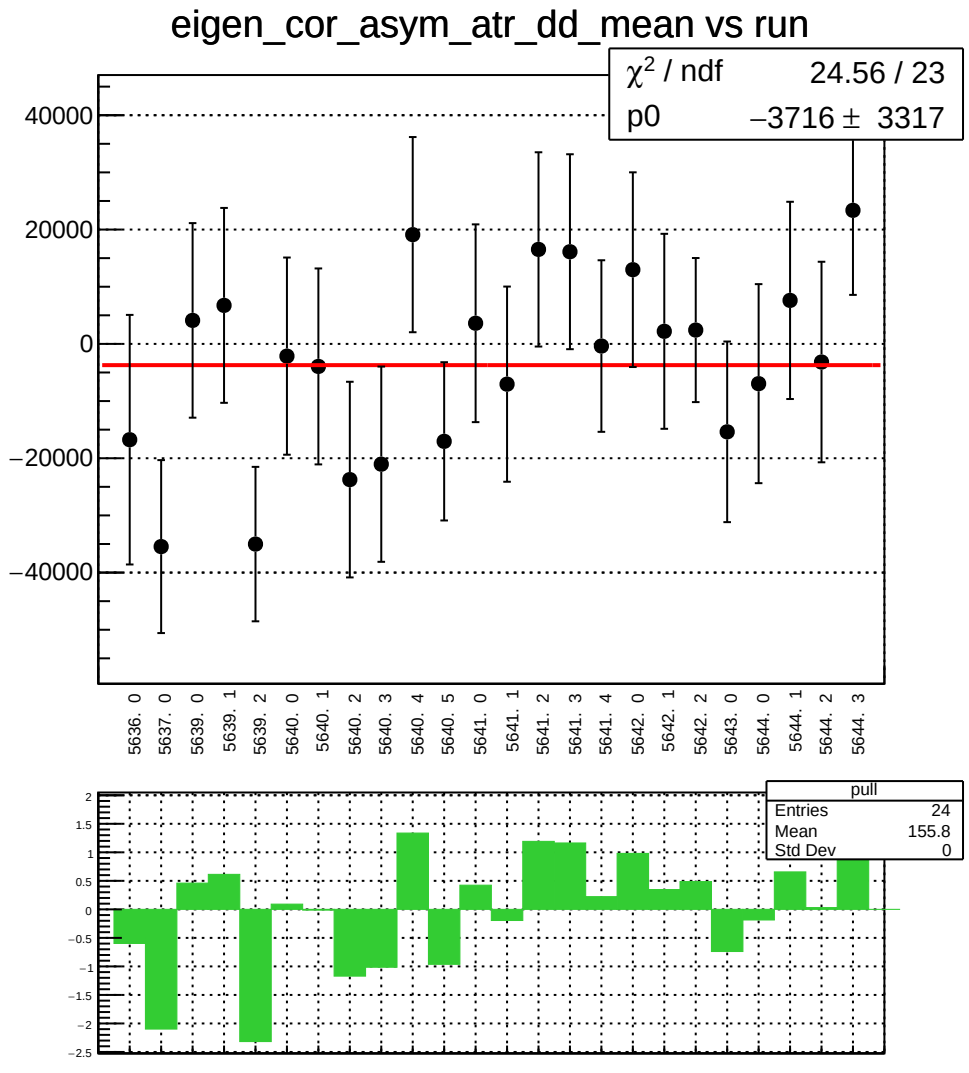

cor_asym_atr_dd_rms vs run
χ² / ndf 50.11 / 23
p0 1629 ± 2.345
1720
1700
1680
1660
1640
1620
1600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

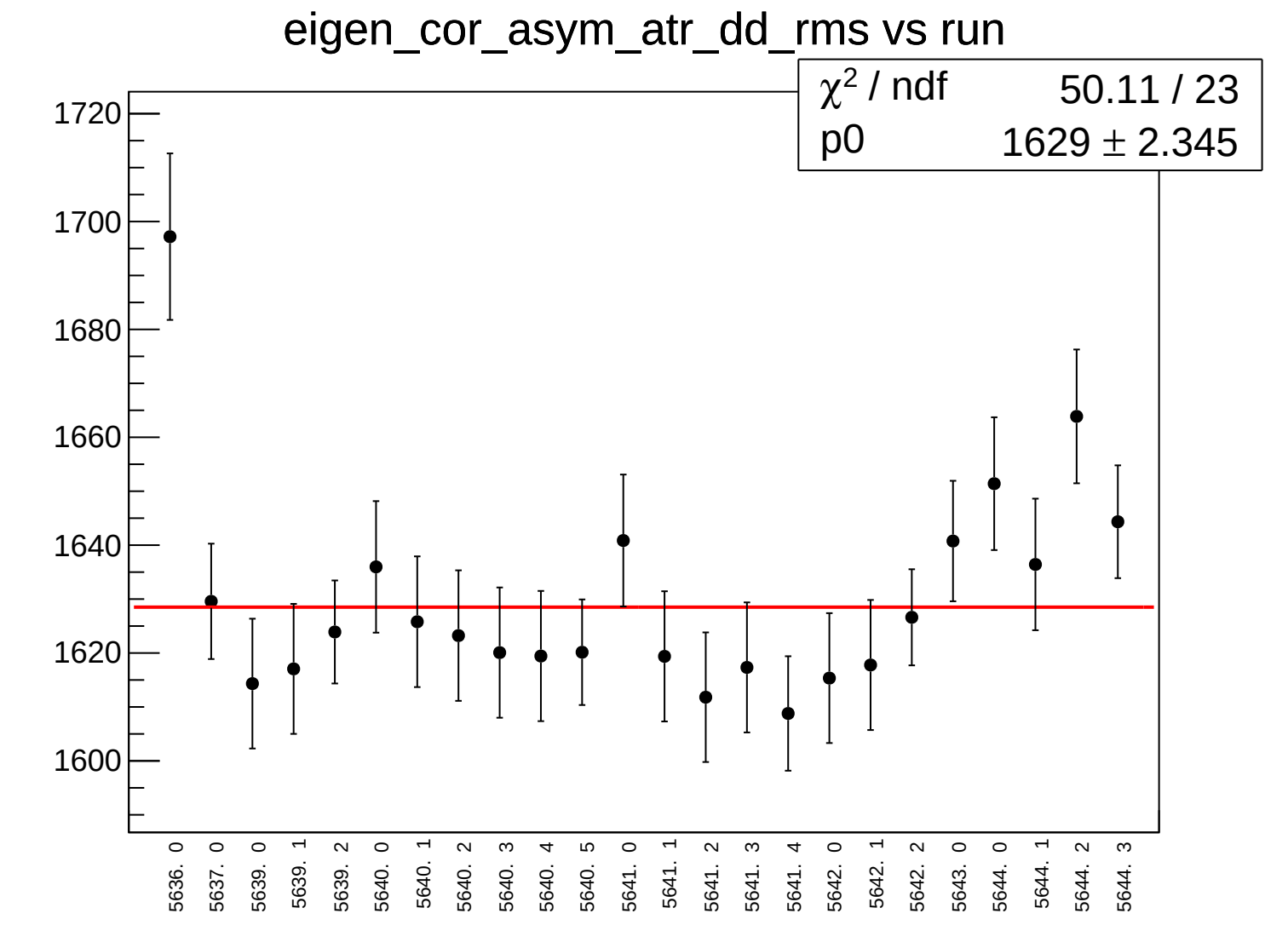

asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 27.24 / 23
p0 1968 ± 6379
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

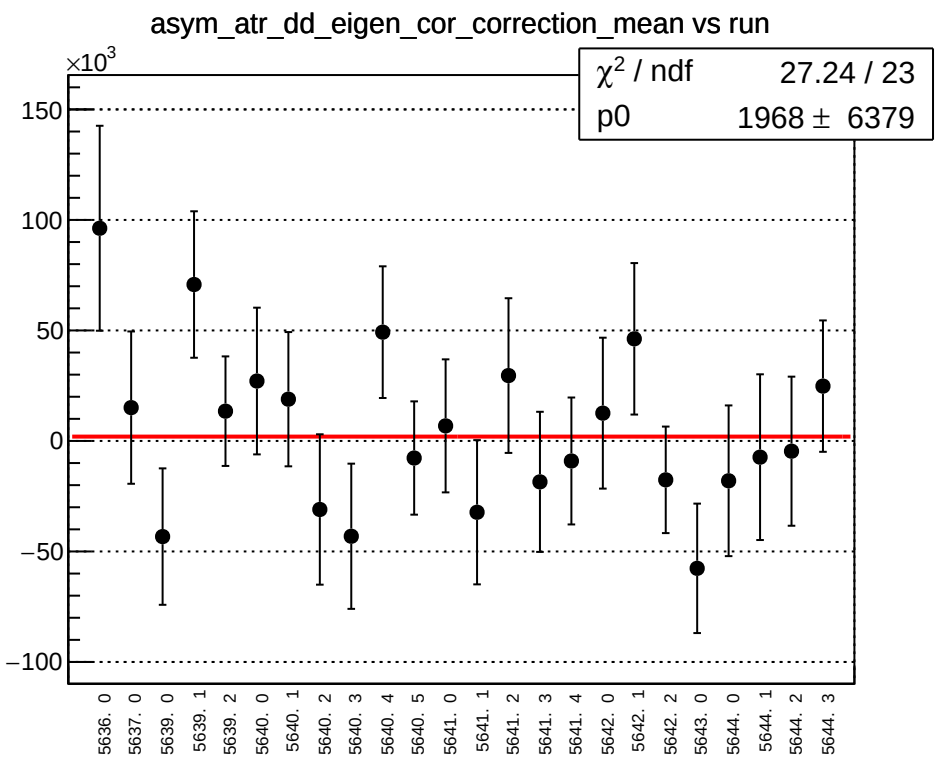

pull
Entries 24
Mean −38.12
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

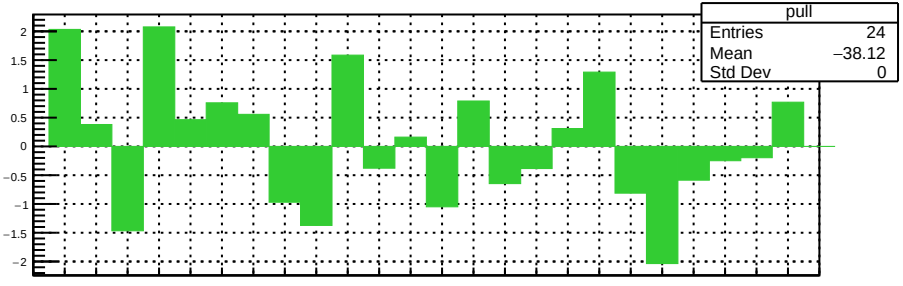

pull1D
Entries 24
Mean 0.04306
Std Dev 1.064
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

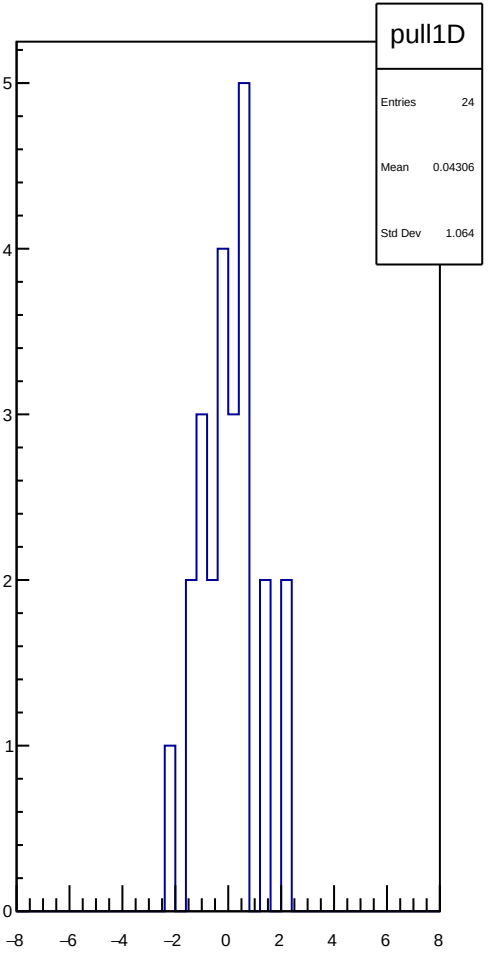

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 2035 / 23
p0 3126 ± 4.511
3800
3600
3400
3200
3000
2800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

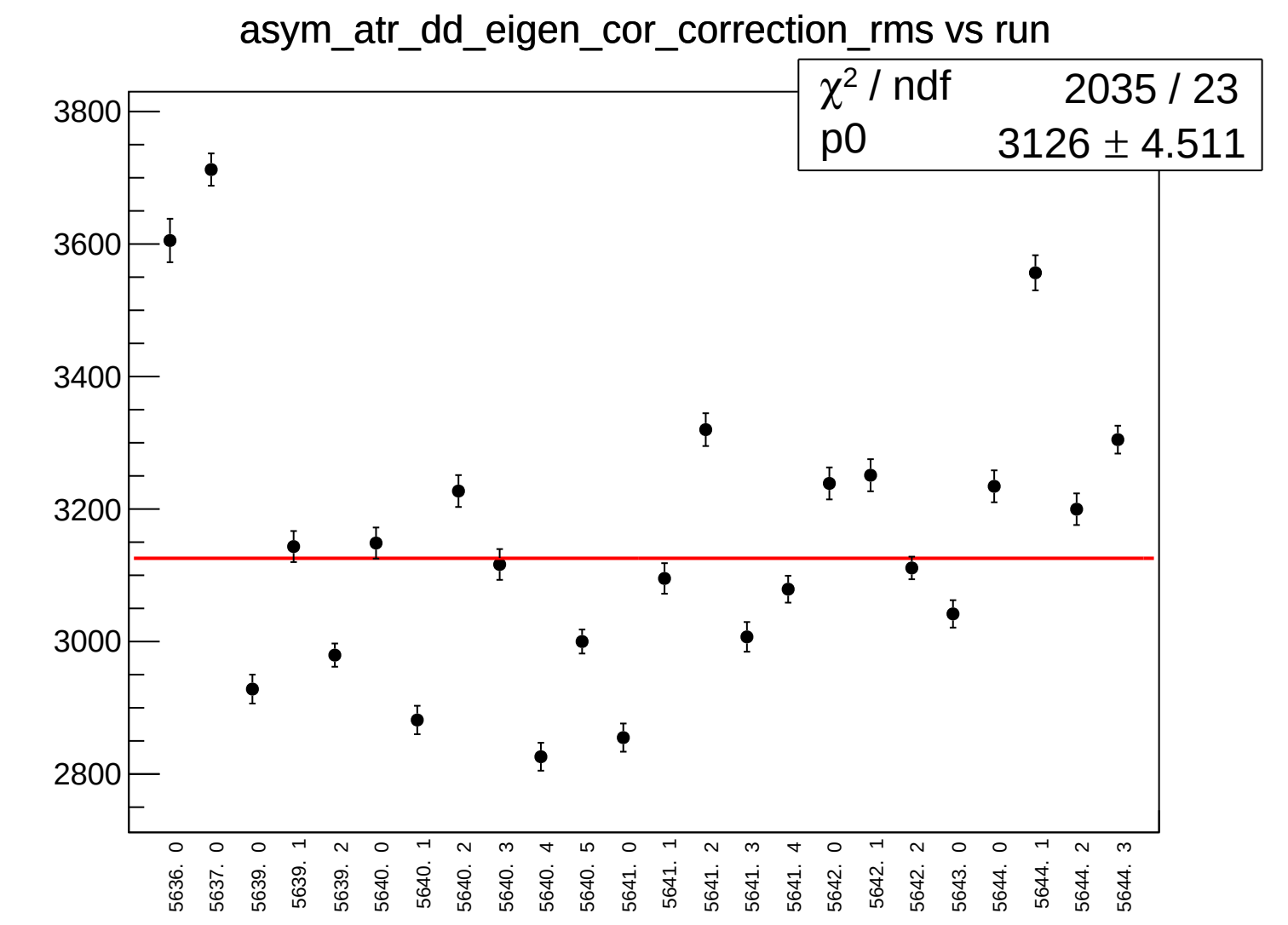

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 24.56 / 23
p0 −3716 ± 3317
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 155.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean 0.02268
Std Dev 1.011
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

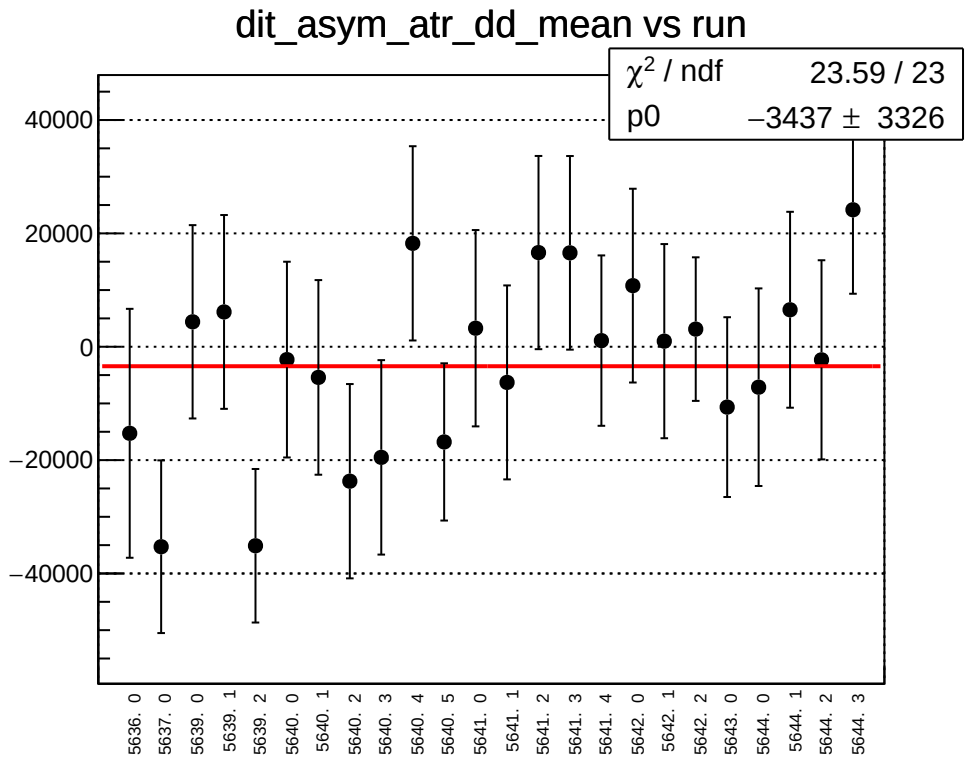

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 50.11 / 23
p0 1629 ± 2.345
1720
1700
1680
1660
1640
1620
1600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

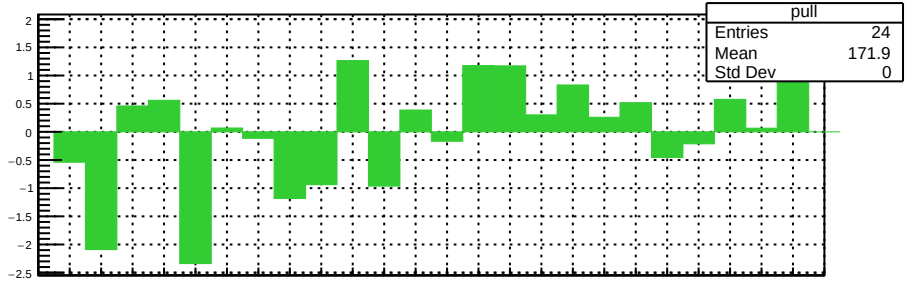

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 27.24 / 23
p0 1968 ± 6379
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

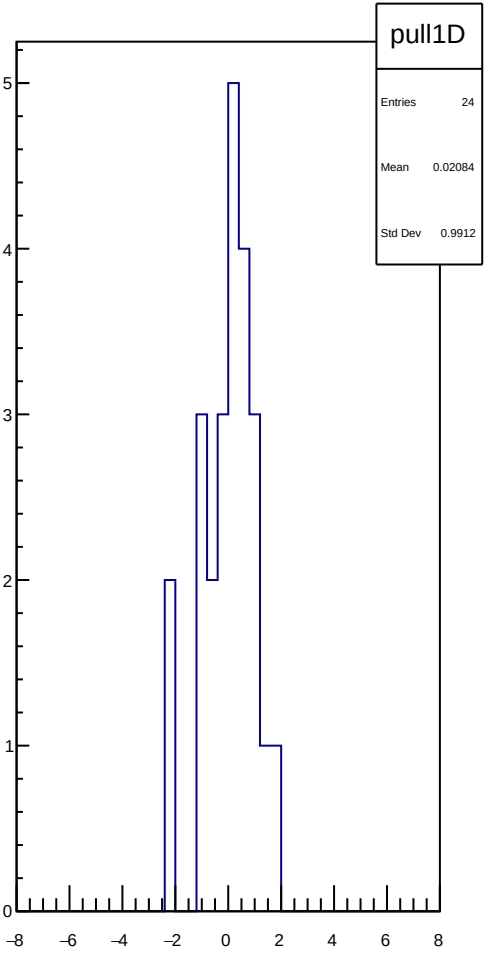

pull
Entries 24
Mean −38.12
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

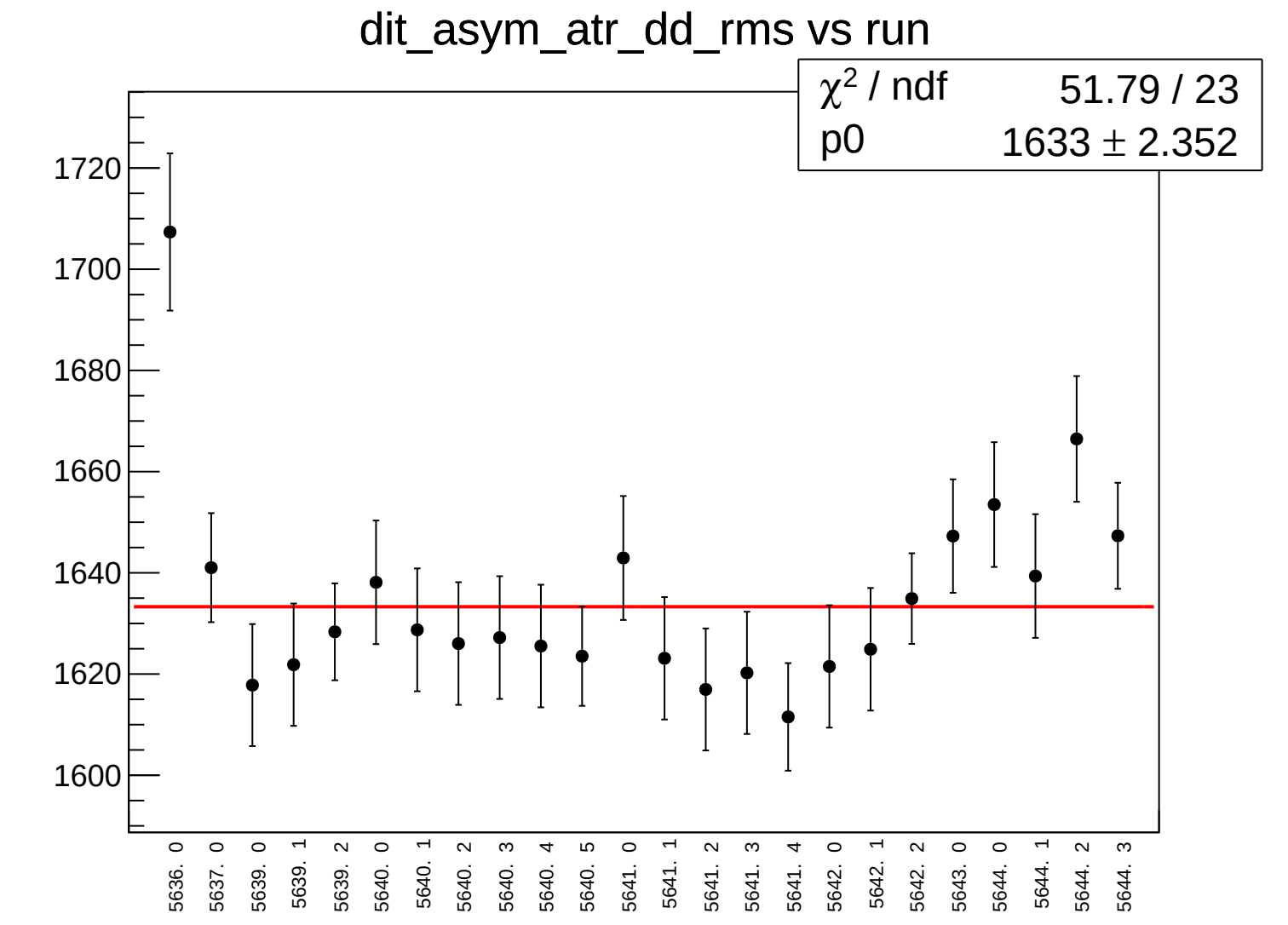

pull1D
Entries 24
Mean 0.04306
Std Dev 1.064
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

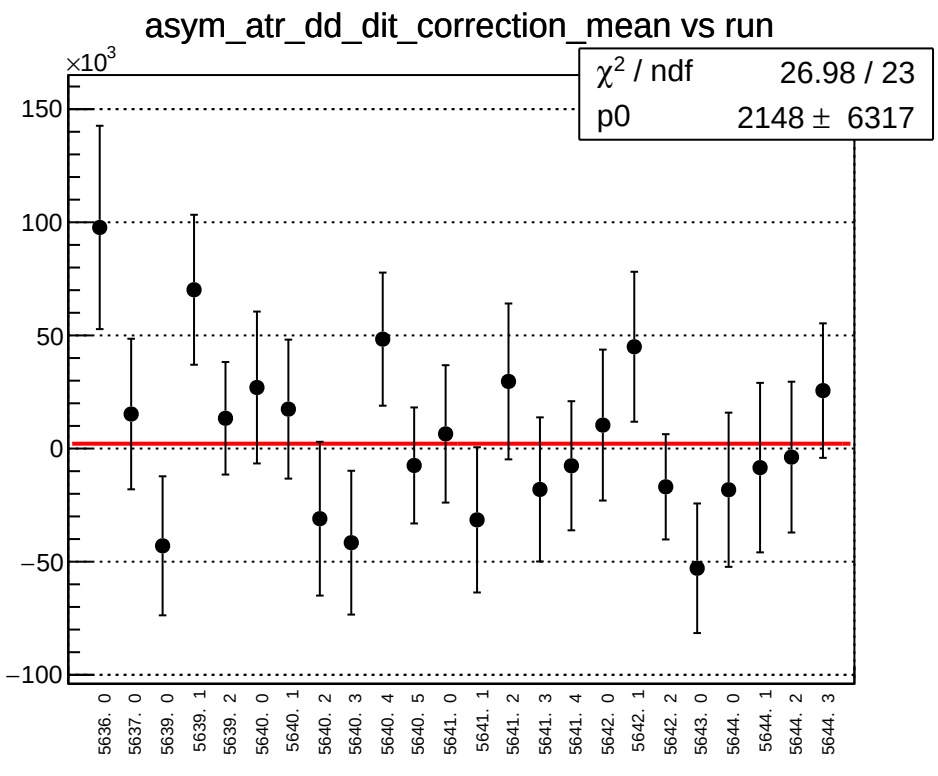

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 2035 / 23
p0 3126 ± 4.511
3800
3600
3400
3200
3000
2800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

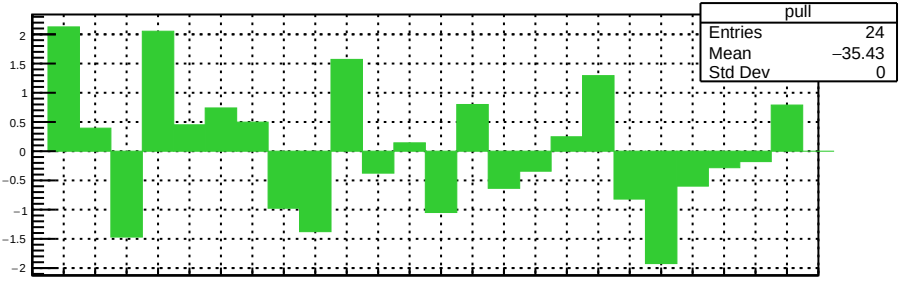

dit_asym_atr_dd_mean vs run
χ² / ndf 23.59 / 23
p0 −3437 ± 3326
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

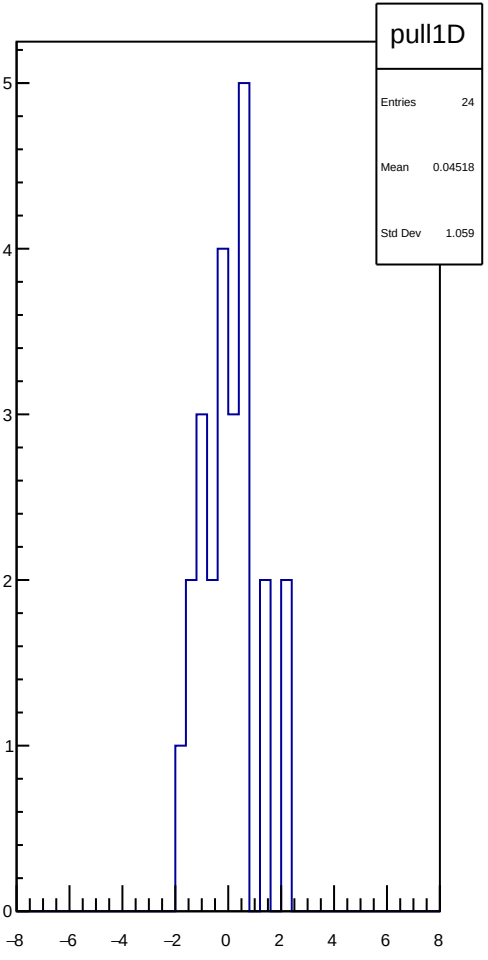

pull
Entries 24
Mean 171.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

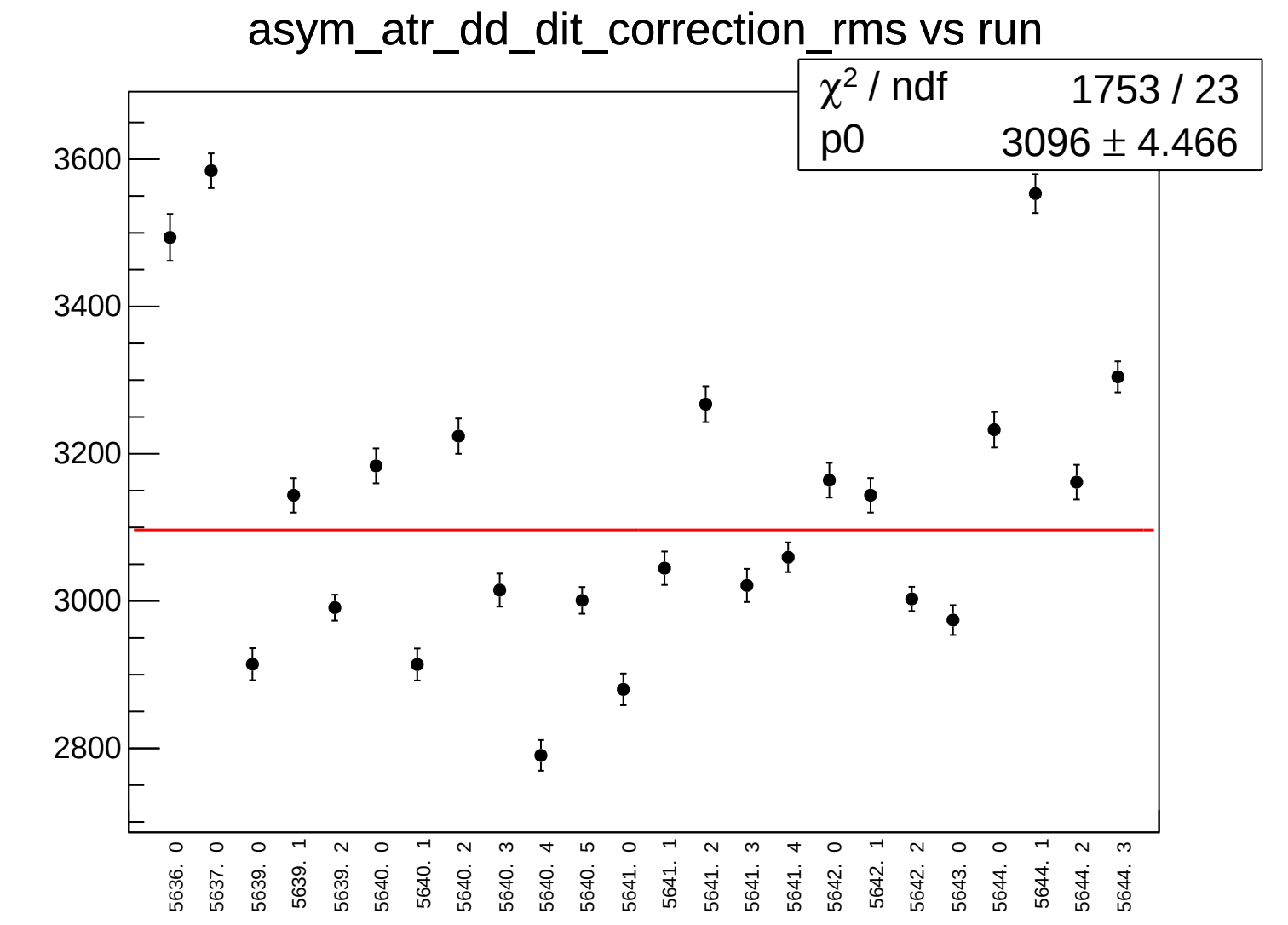

pull1D
Entries 24
Mean 0.02084
Std Dev 0.9912
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

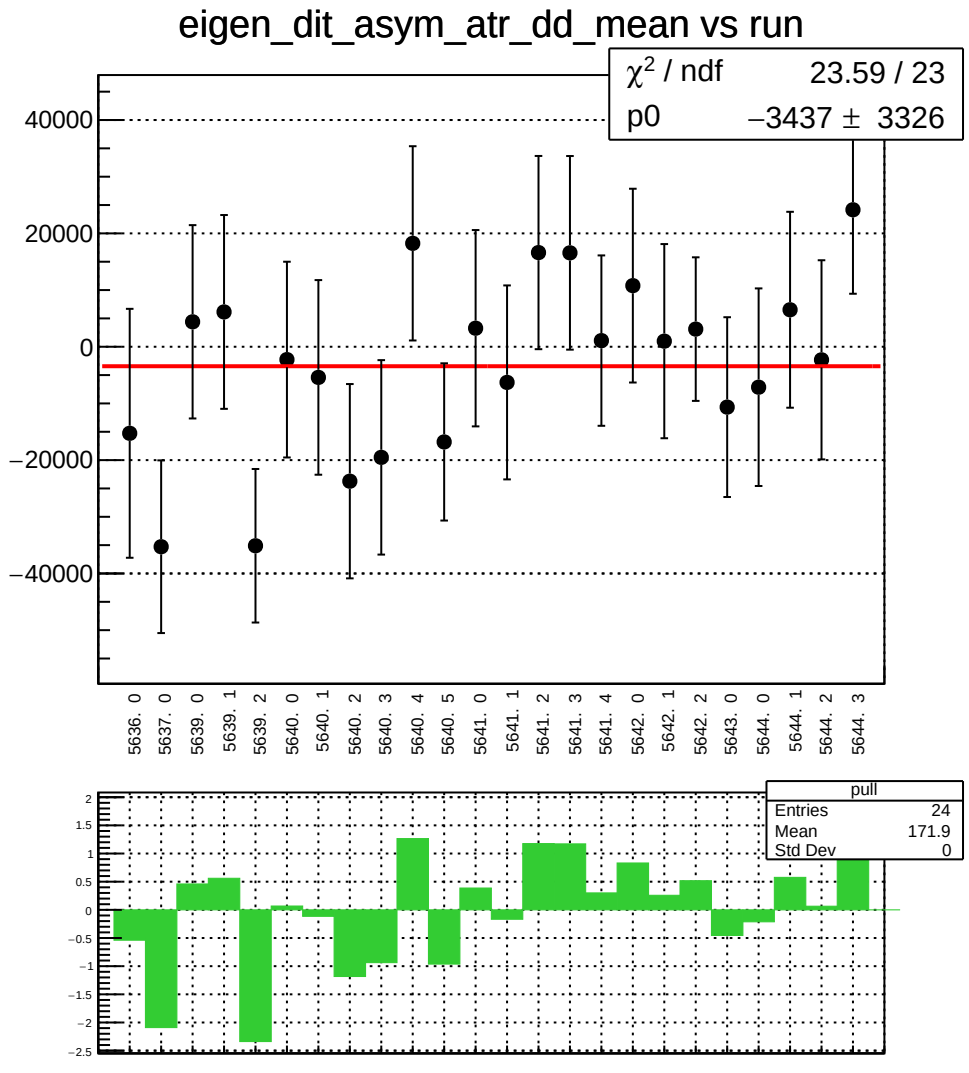

dit_asym_atr_dd_rms vs run
χ² / ndf 51.79 / 23
p0 1633 ± 2.352
1720
1700
1680
1660
1640
1620
1600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

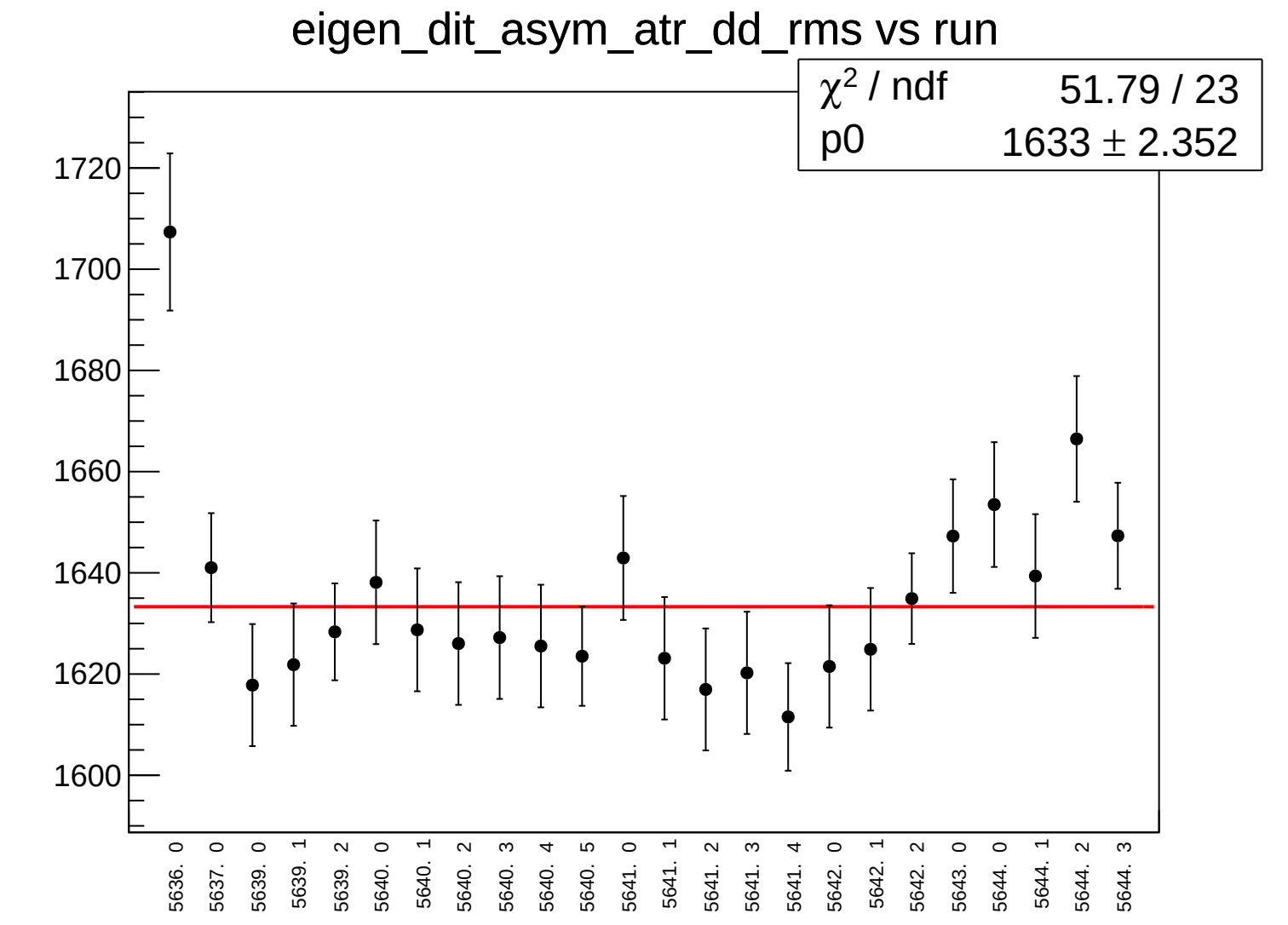

asym_atr_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 26.98 / 23
p0 2148 ± 6317
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

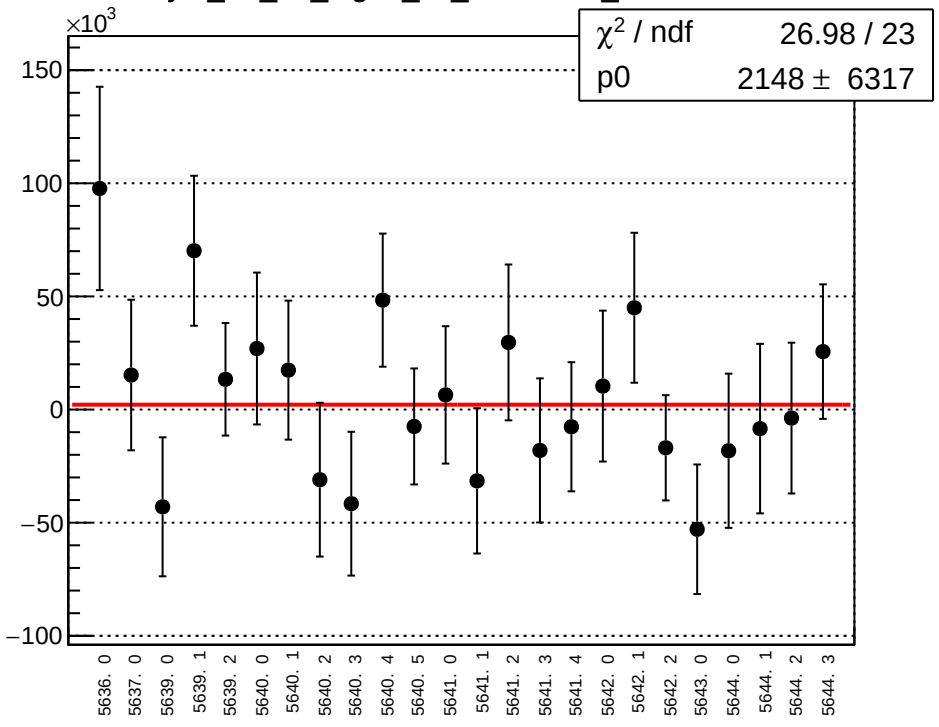

pull
Entries 24
Mean −35.43
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

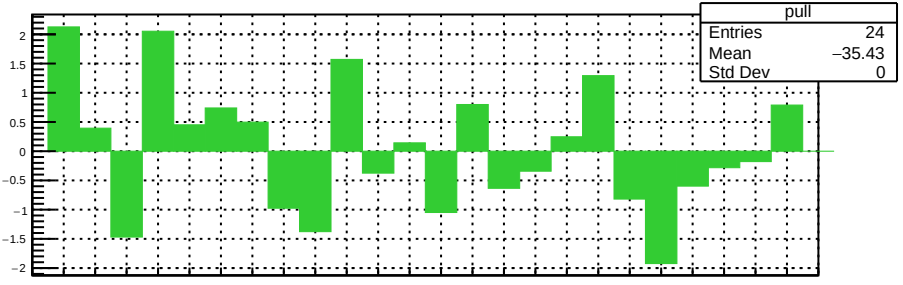

pull1D
Entries 24
Mean 0.04518
Std Dev 1.059
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

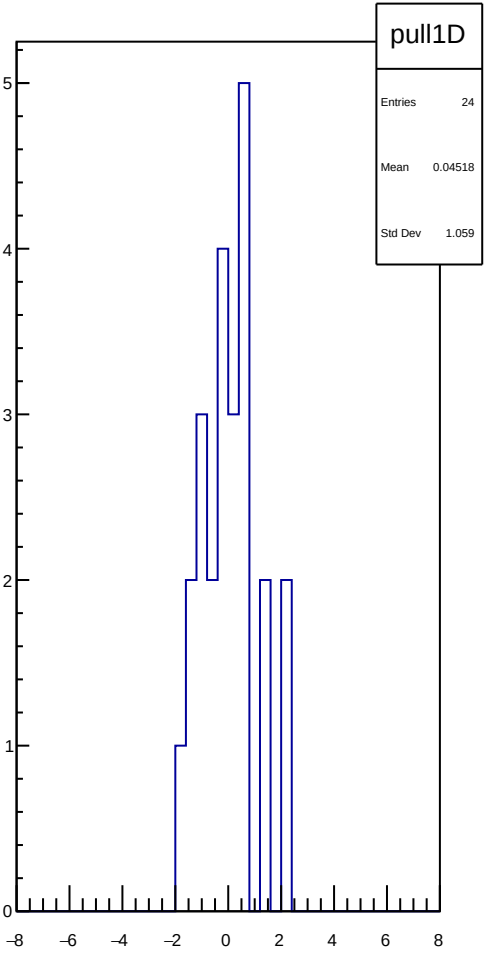

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 1753 / 23
p0 3096 ± 4.466
3600
3400
3200
3000
2800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

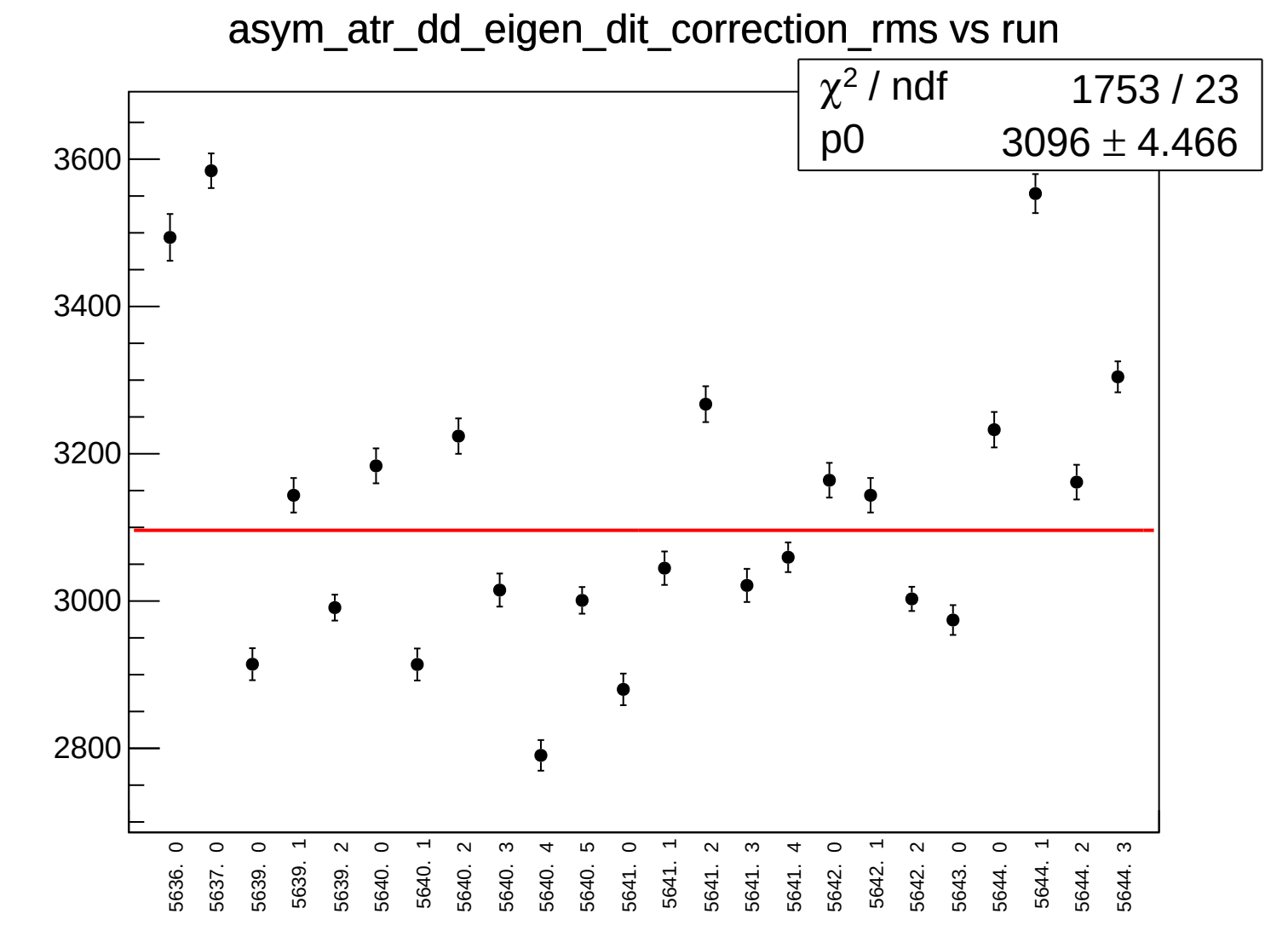

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 23.59 / 23
p0 −3437 ± 3326
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 171.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean 0.02084
Std Dev 0.9912
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

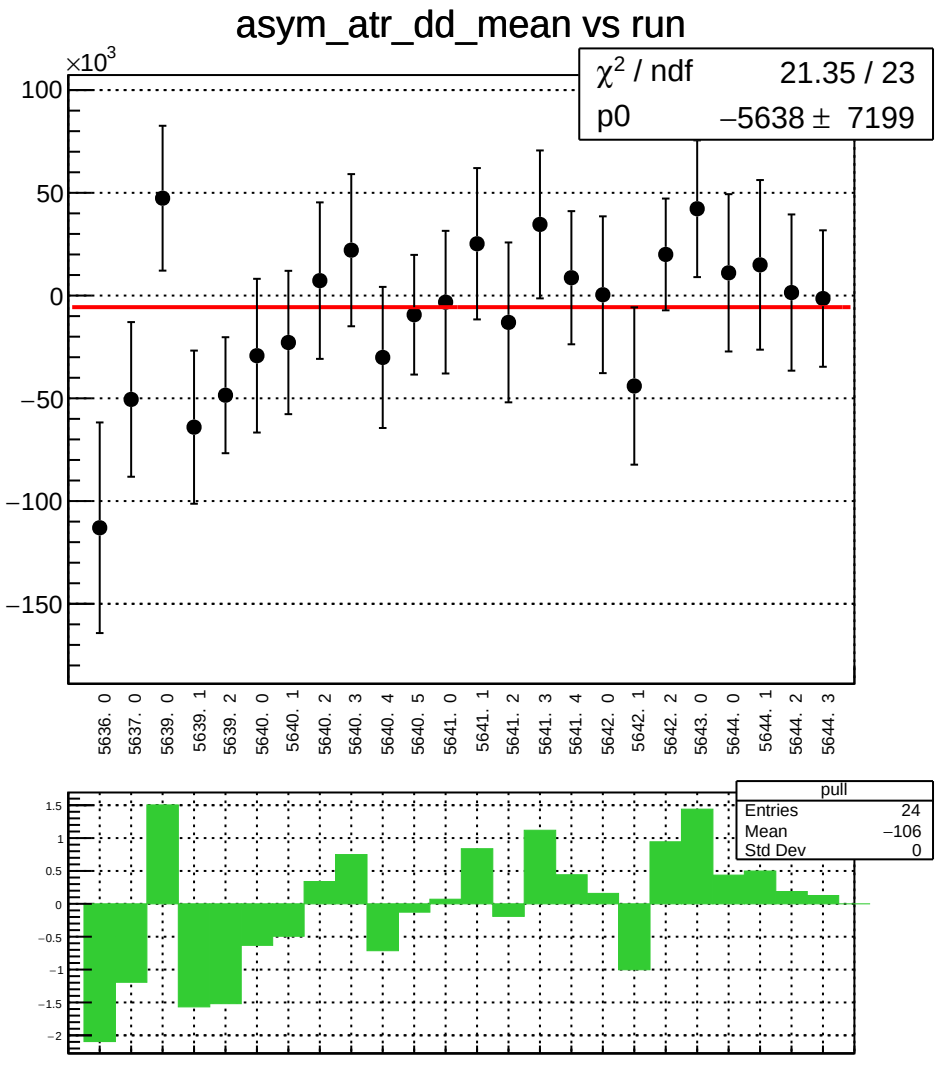

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 51.79 / 23
p0 1633 ± 2.352
1720
1700
1680
1660
1640
1620
1600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

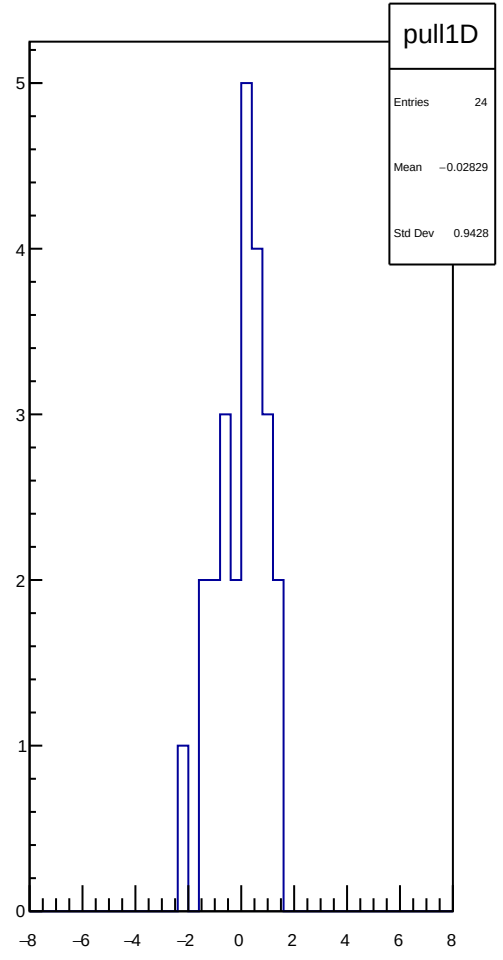

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 26.98 / 23
p0 2148 ± 6317
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

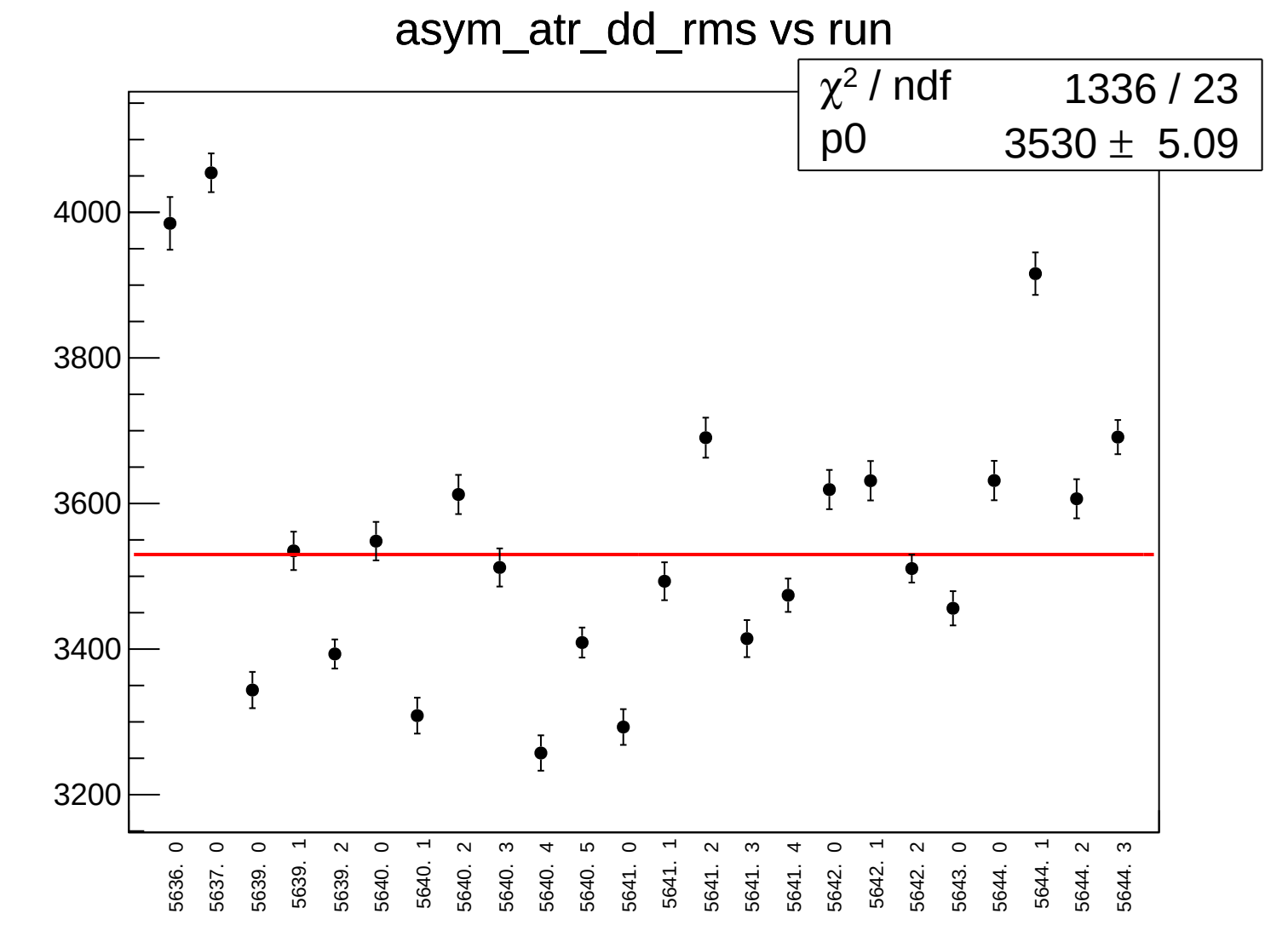

pull
Entries 24
Mean −35.43
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

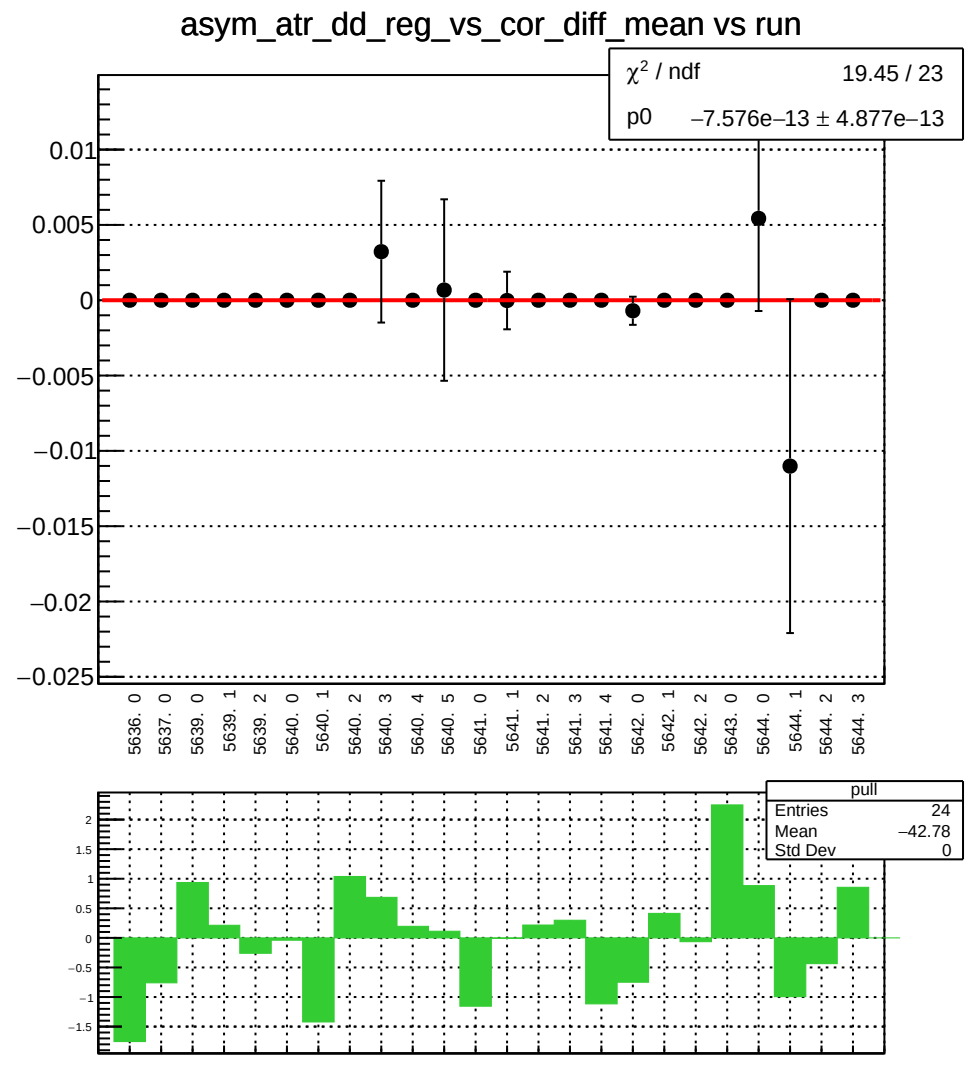

pull1D
Entries 24
Mean 0.04518
Std Dev 1.059
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

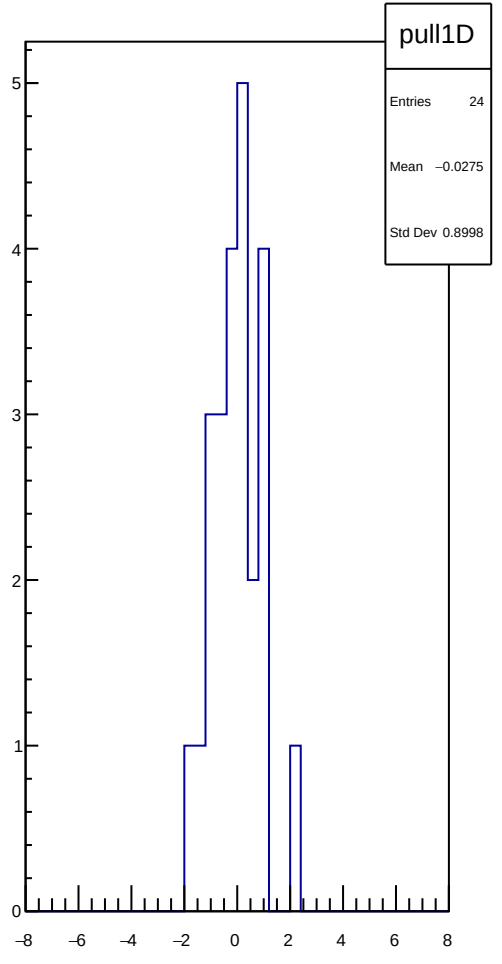

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 1753 / 23
p0 3096 ± 4.466
3600
3400
3200
3000
2800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

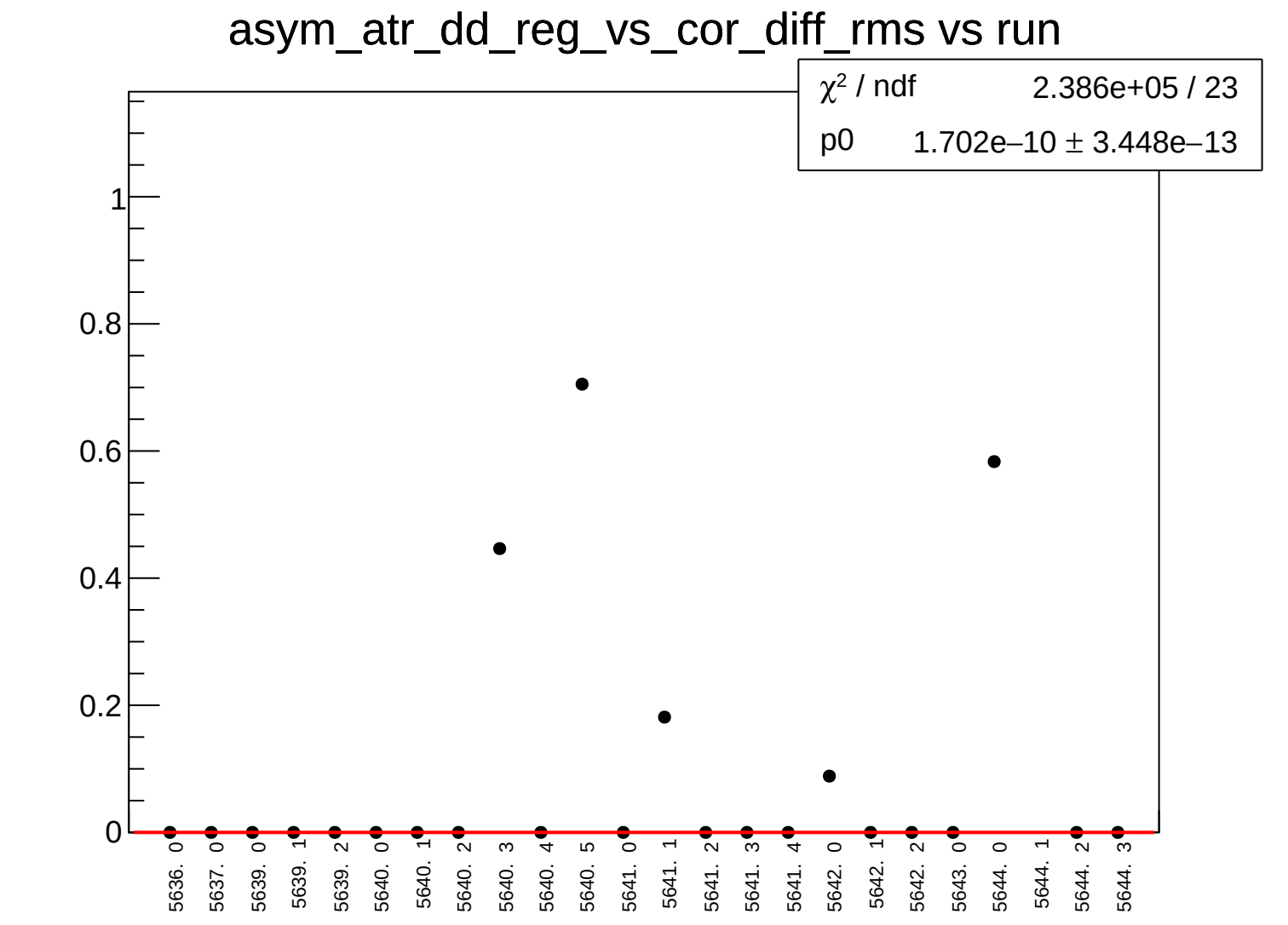

asym_atr_dd_mean vs run
×10^3
χ² / ndf 21.35 / 23
p0 −5638 ± 7199
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −106
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

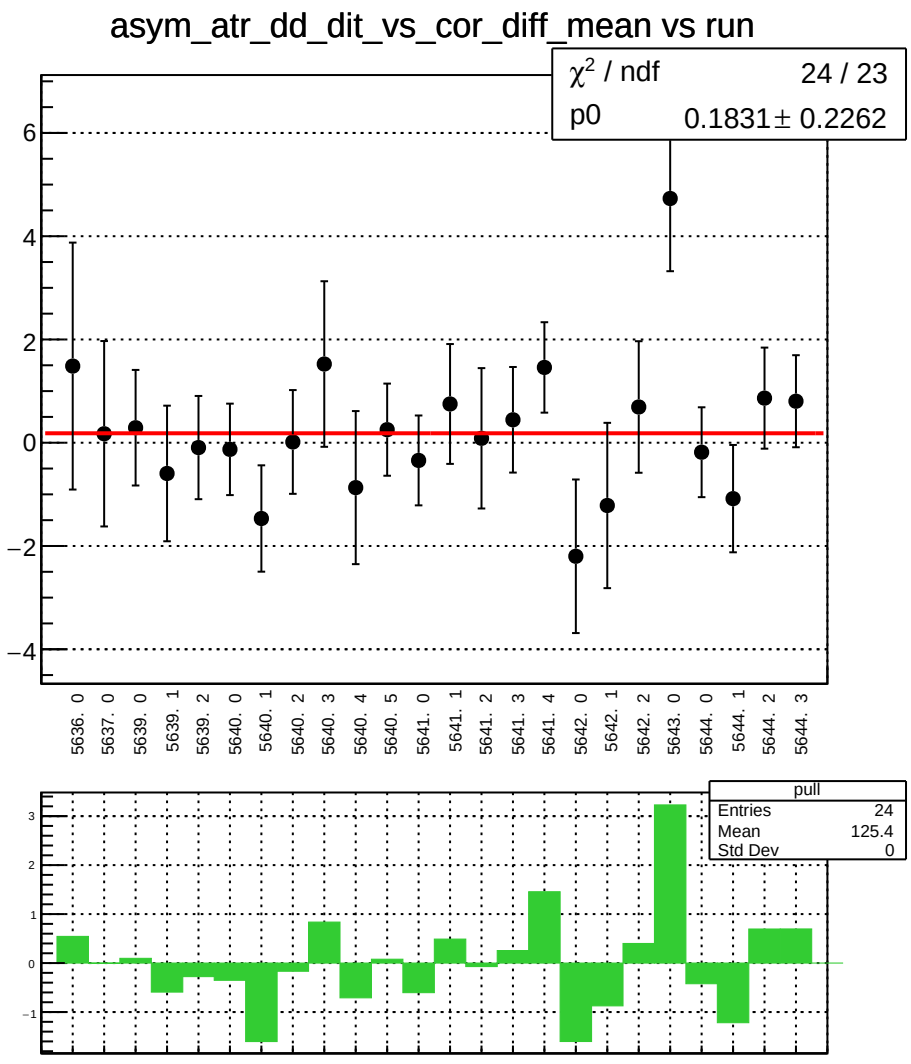

pull1D
Entries 24
Mean −0.02829
Std Dev 0.9428
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

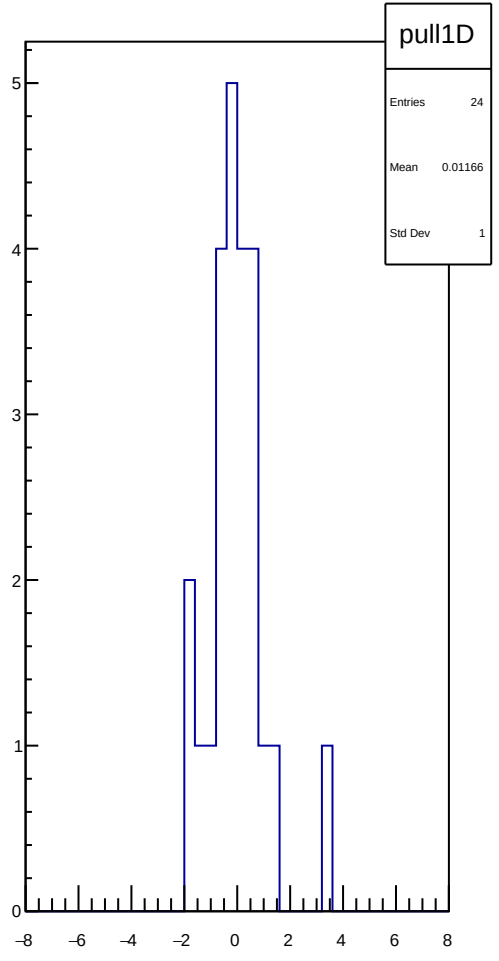

asym_atr_dd_rms vs run
χ² / ndf 1336 / 23
p0 3530 ± 5.09
4000
3800
3600
3400
3200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

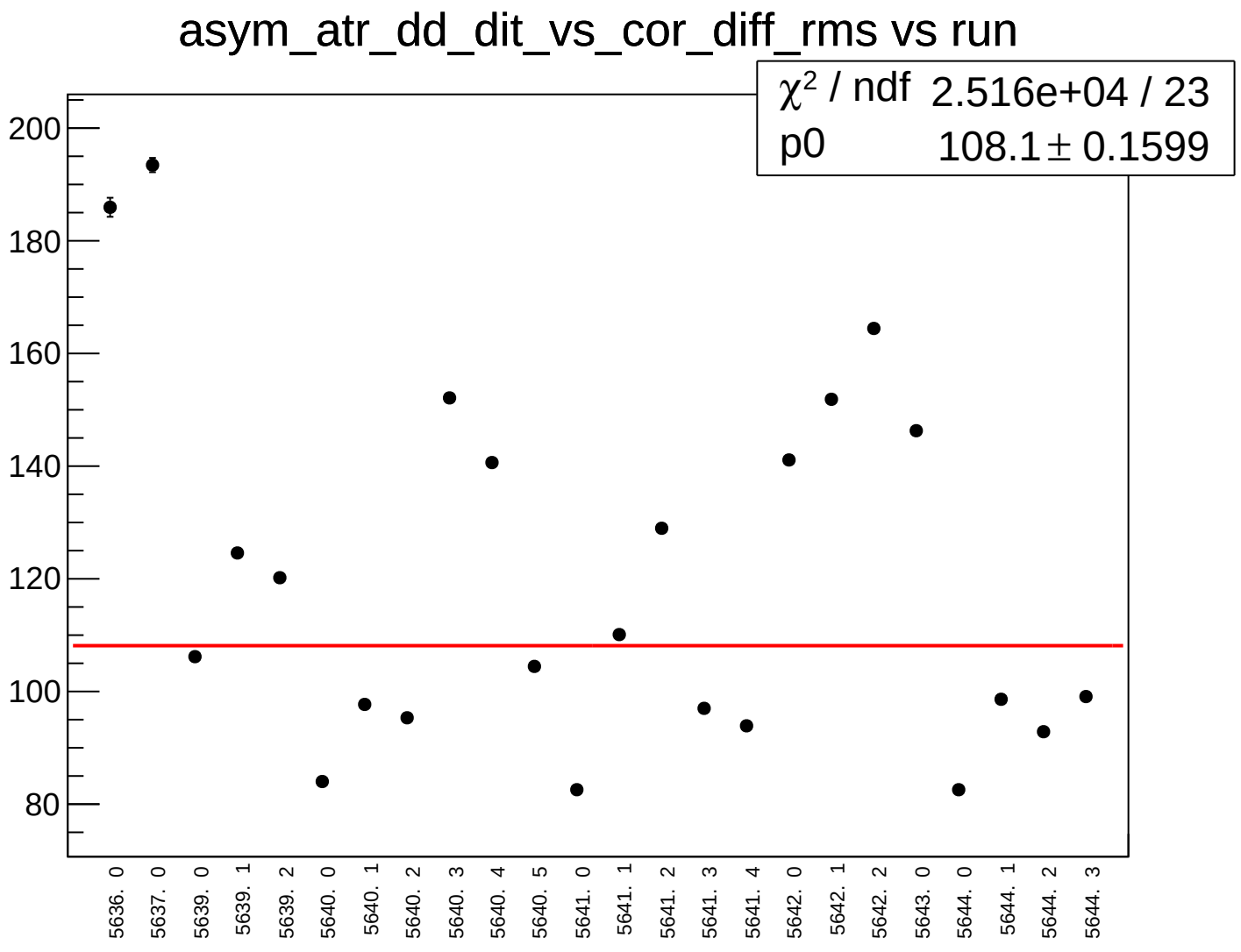

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 19.45 / 23
p0 −7.576e−13 ± 4.877e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −42.78
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

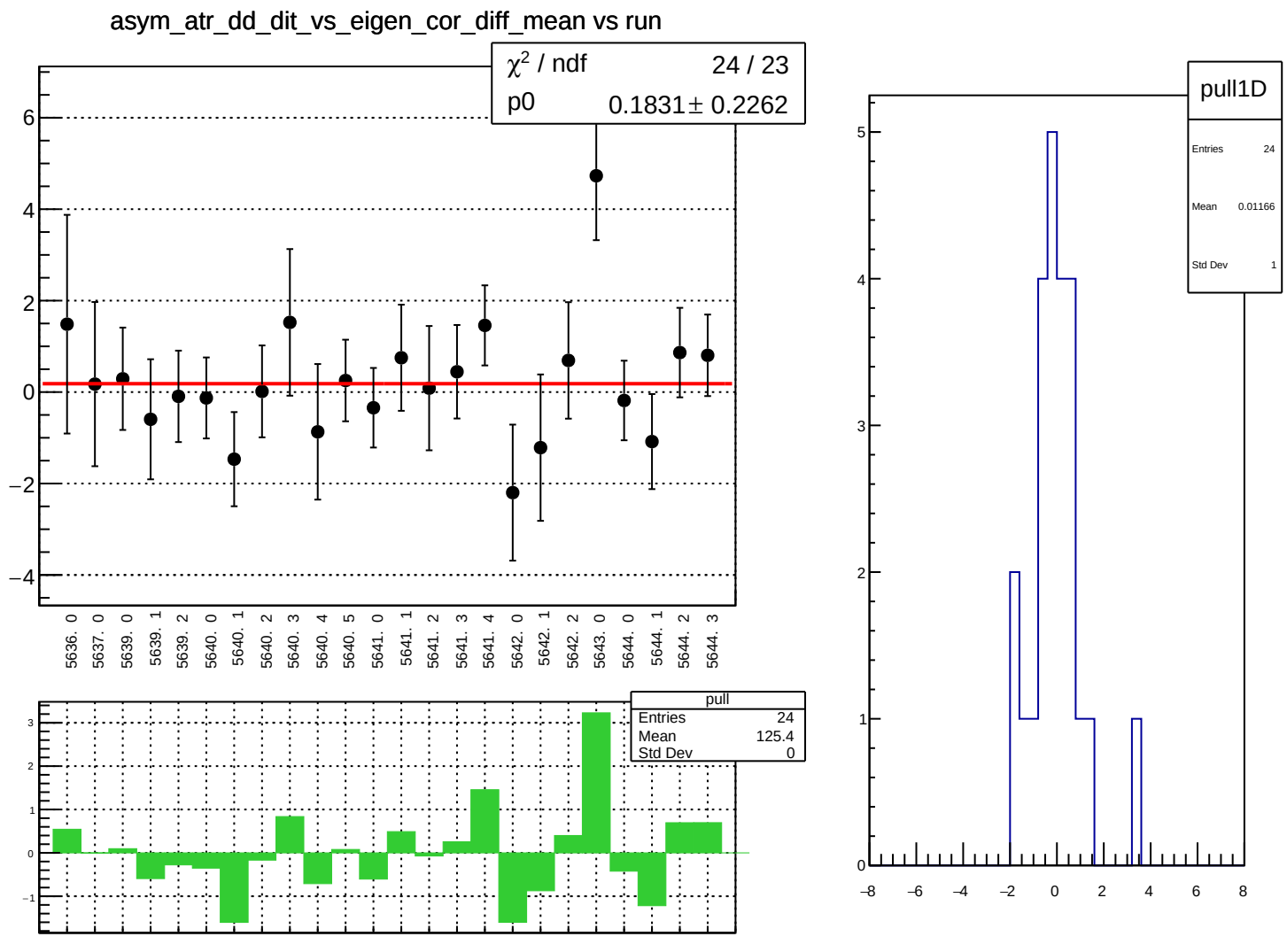

pull1D
Entries 24
Mean −0.0275
Std Dev 0.8998
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

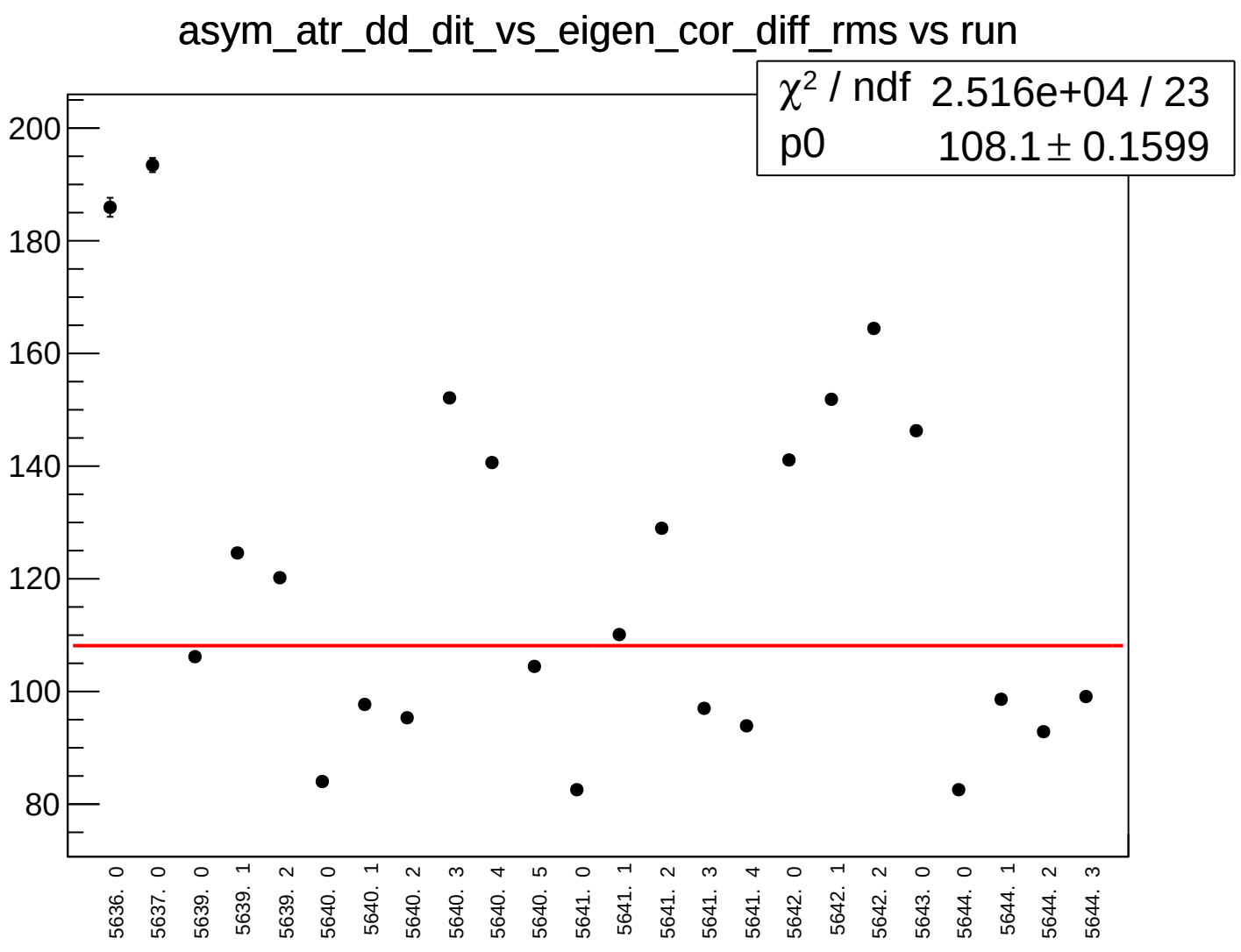

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.386e+05 / 23
p0 1.702e−10 ± 3.448e−13
1
0.8
0.6
0.4
0.2
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

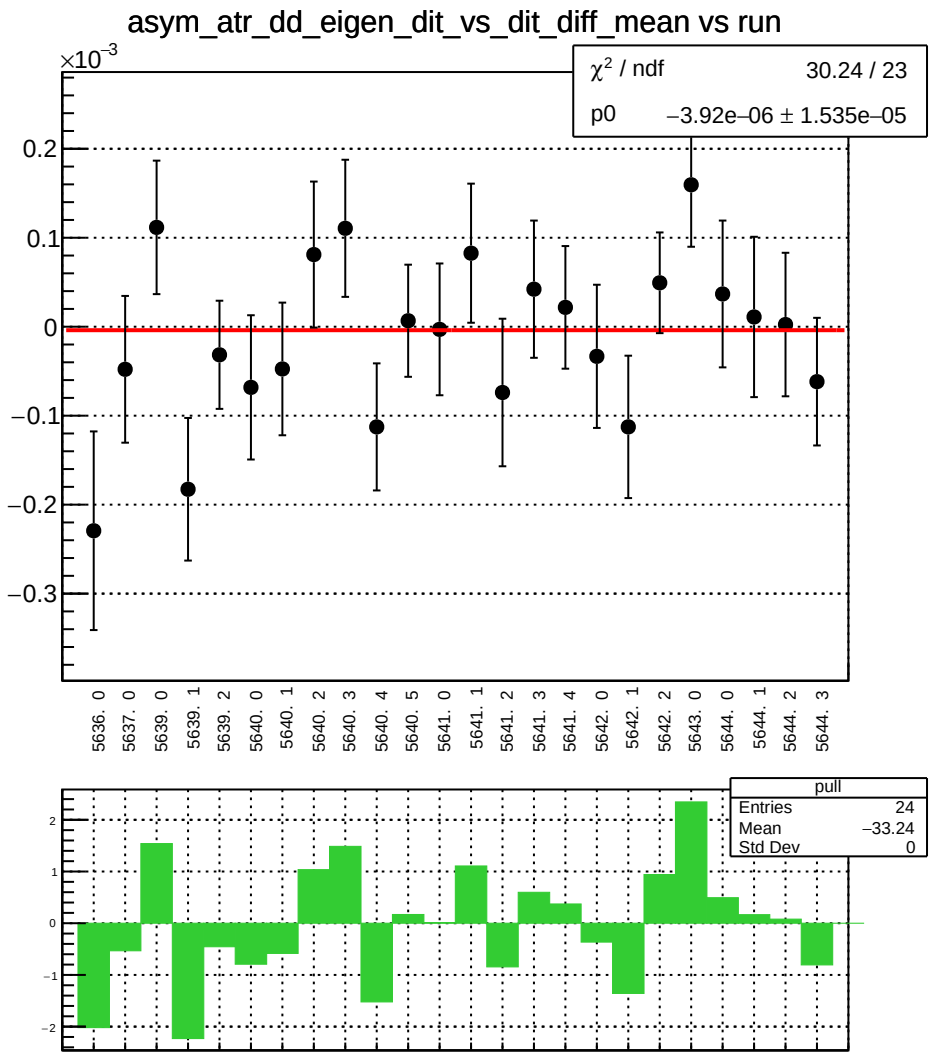

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 24 / 23
p0 0.1831 ± 0.2262
6
4
2
0
−2
−4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 125.4
Std Dev 0
3
2
1
0
−1

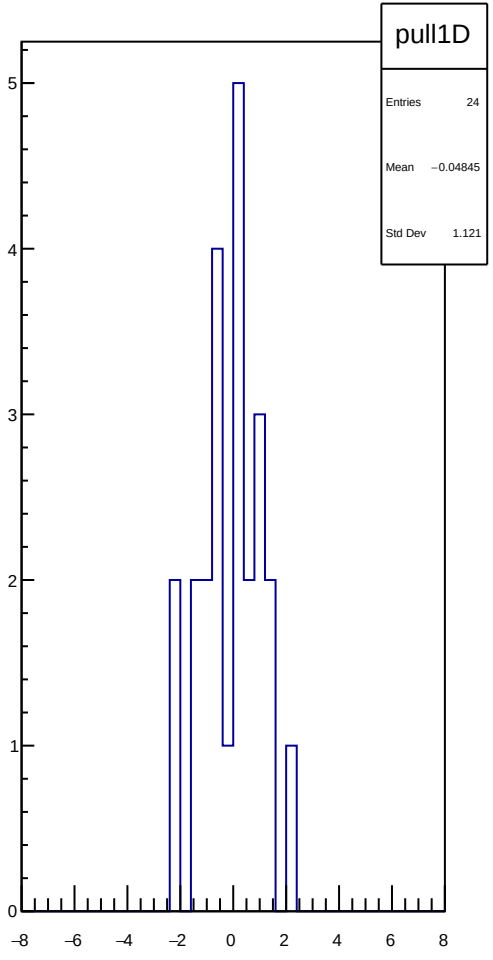

pull1D
Entries 24
Mean 0.01166
Std Dev 1
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

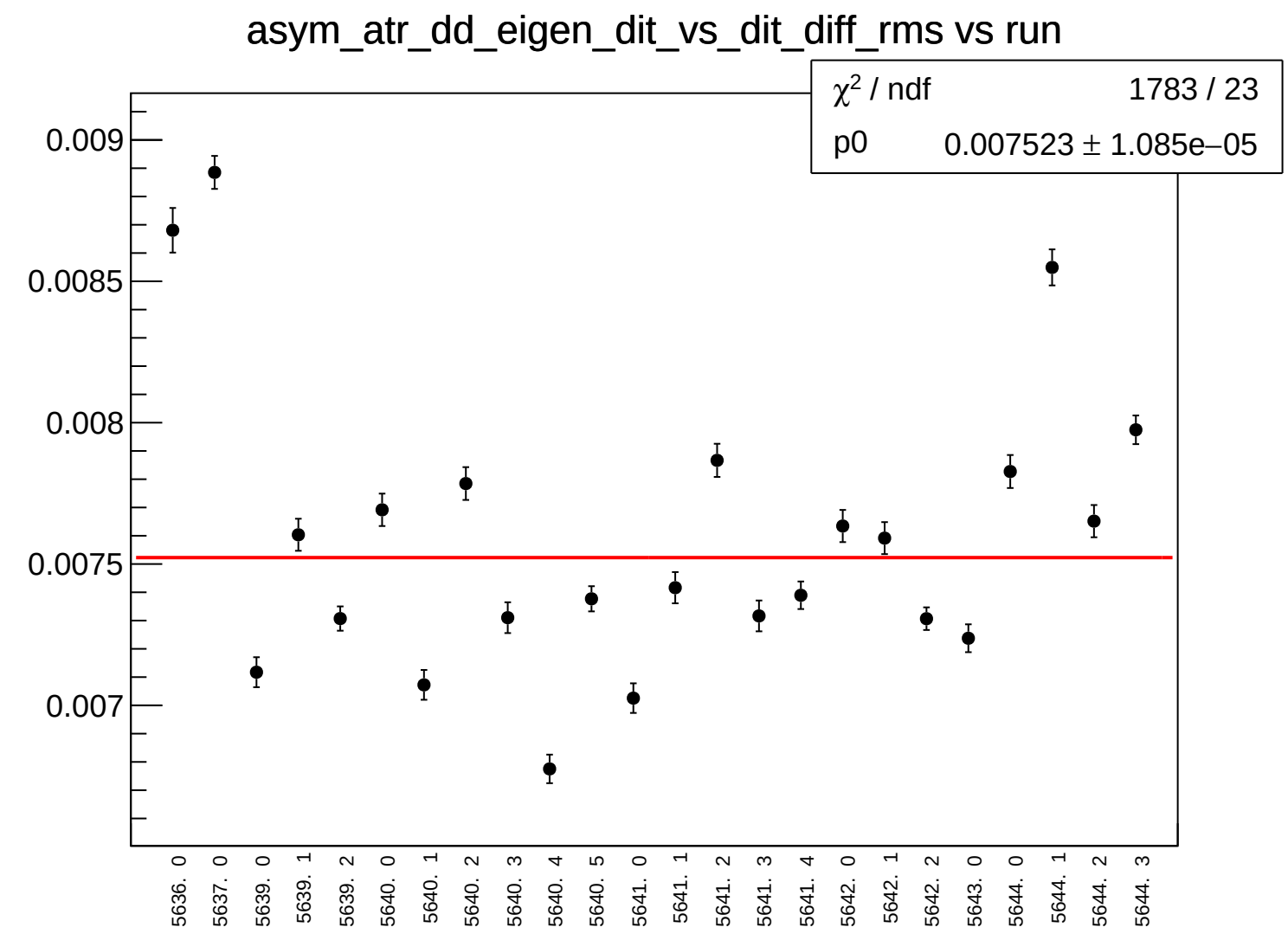

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.516e+04 / 23
p0 108.1 ± 0.1599
200
180
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

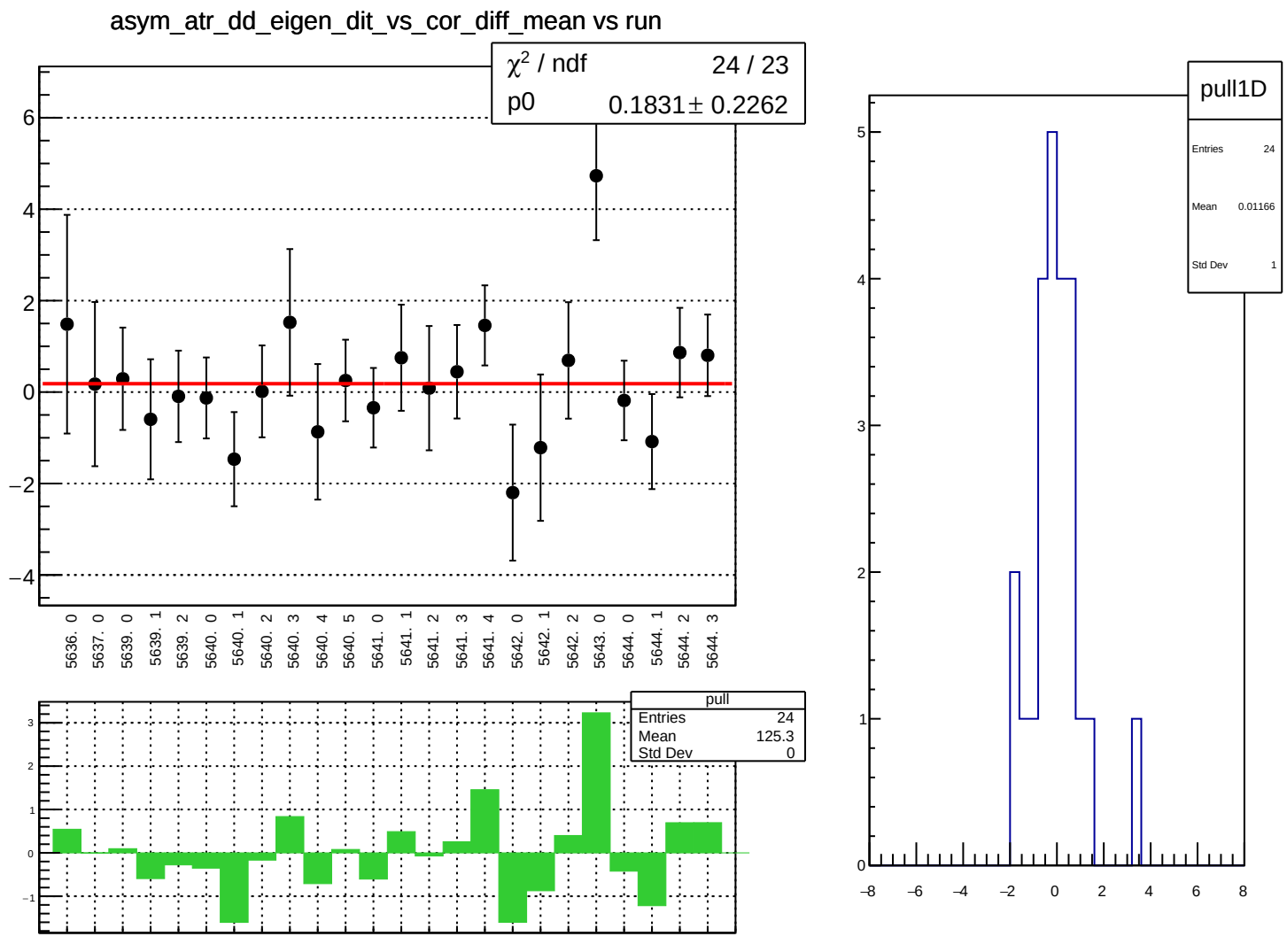

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24 / 23
p0 0.1831 ± 0.2262
6
4
2
0
−2
−4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 125.4
Std Dev 0
3
2
1
0
−1
pull1D
Entries 24
Mean 0.01166
Std Dev 1
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

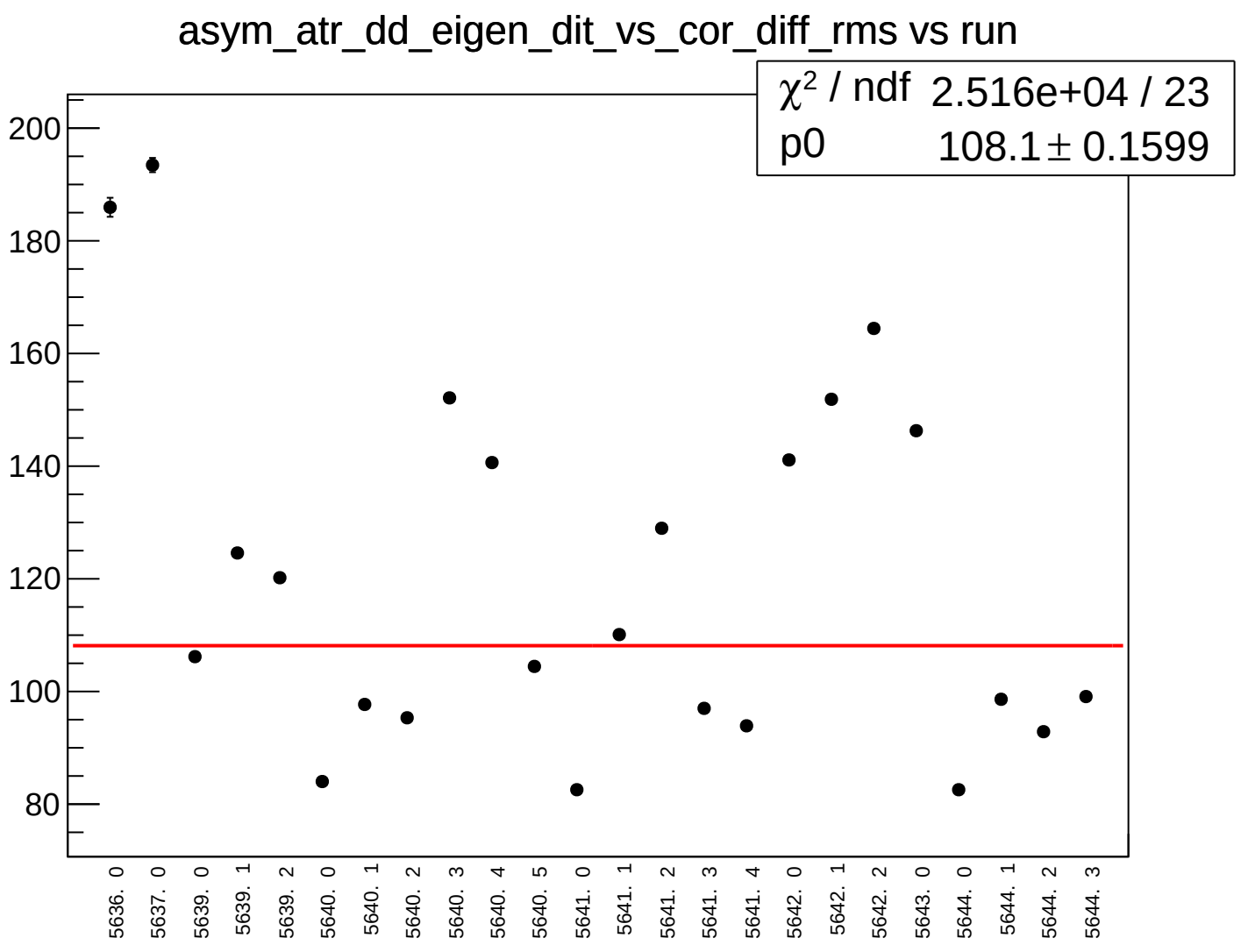

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.516e+04 / 23
p0 108.1 ± 0.1599
200
180
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

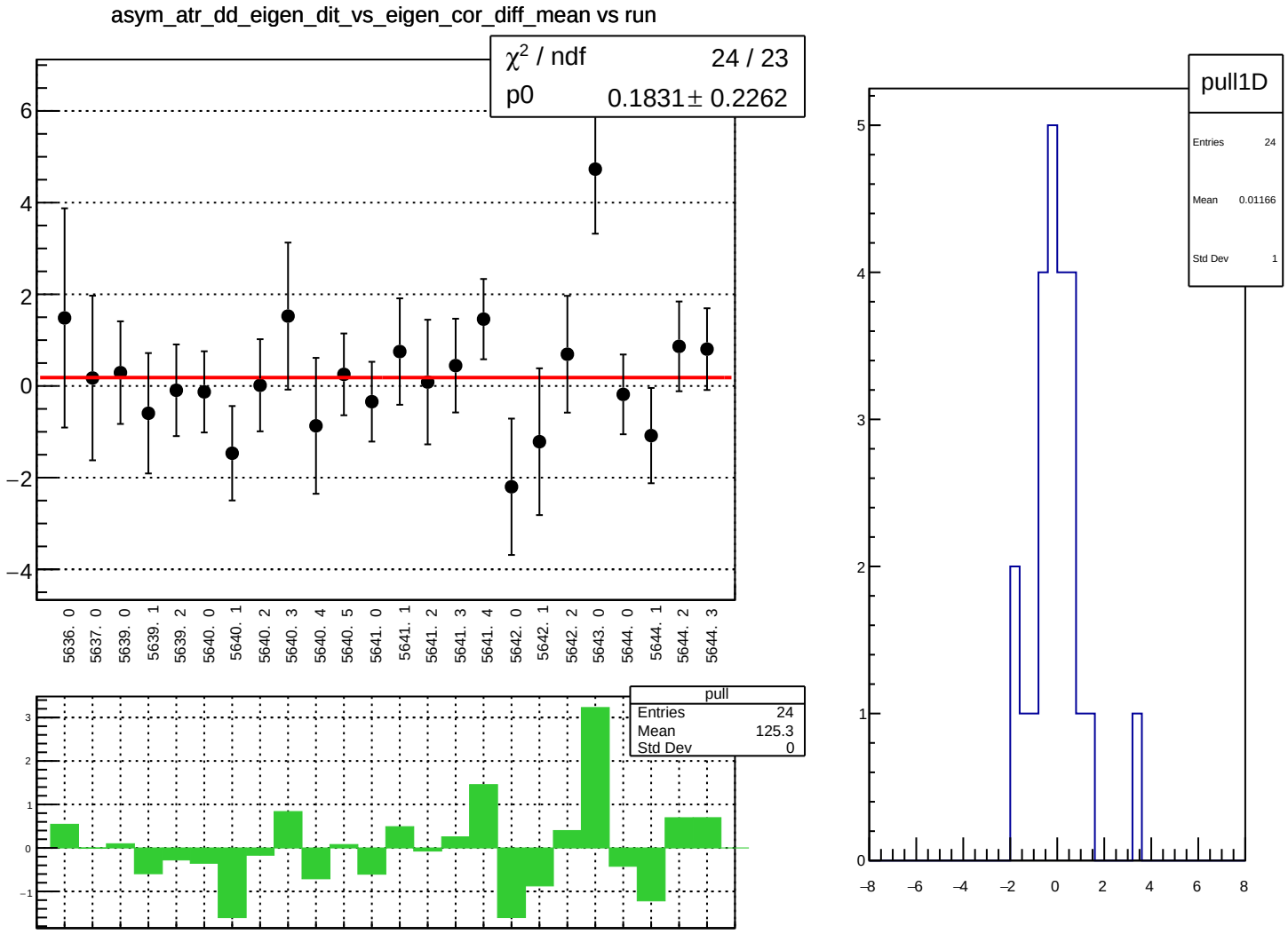

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 30.24 / 23
p0 −3.92e−06 ± 1.535e−05
0.2
0.1
0
−0.1
−0.2
−0.3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −33.24
Std Dev 0
2
1
0
−1
−2

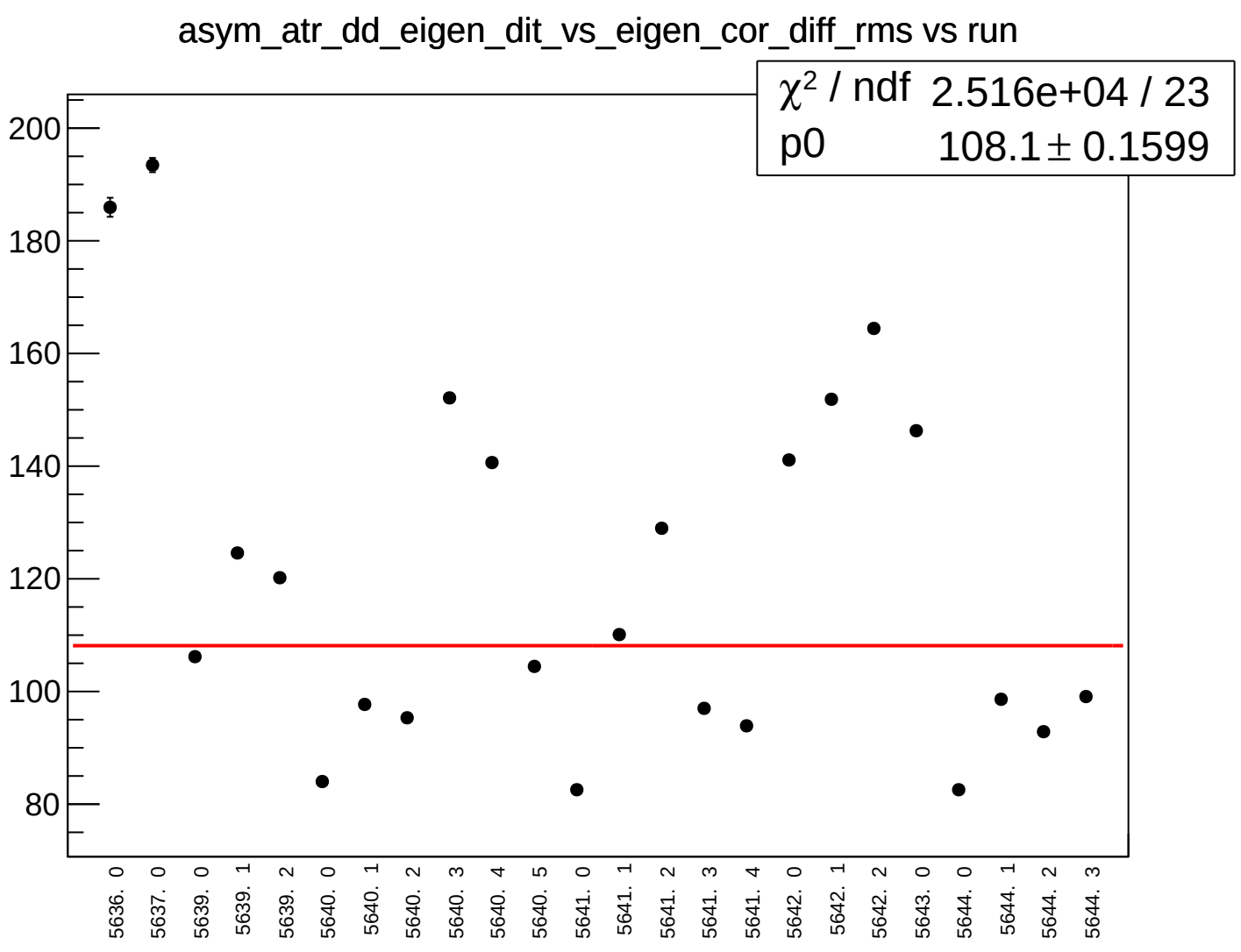

pull1D
Entries 24
Mean −0.04845
Std Dev 1.121
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

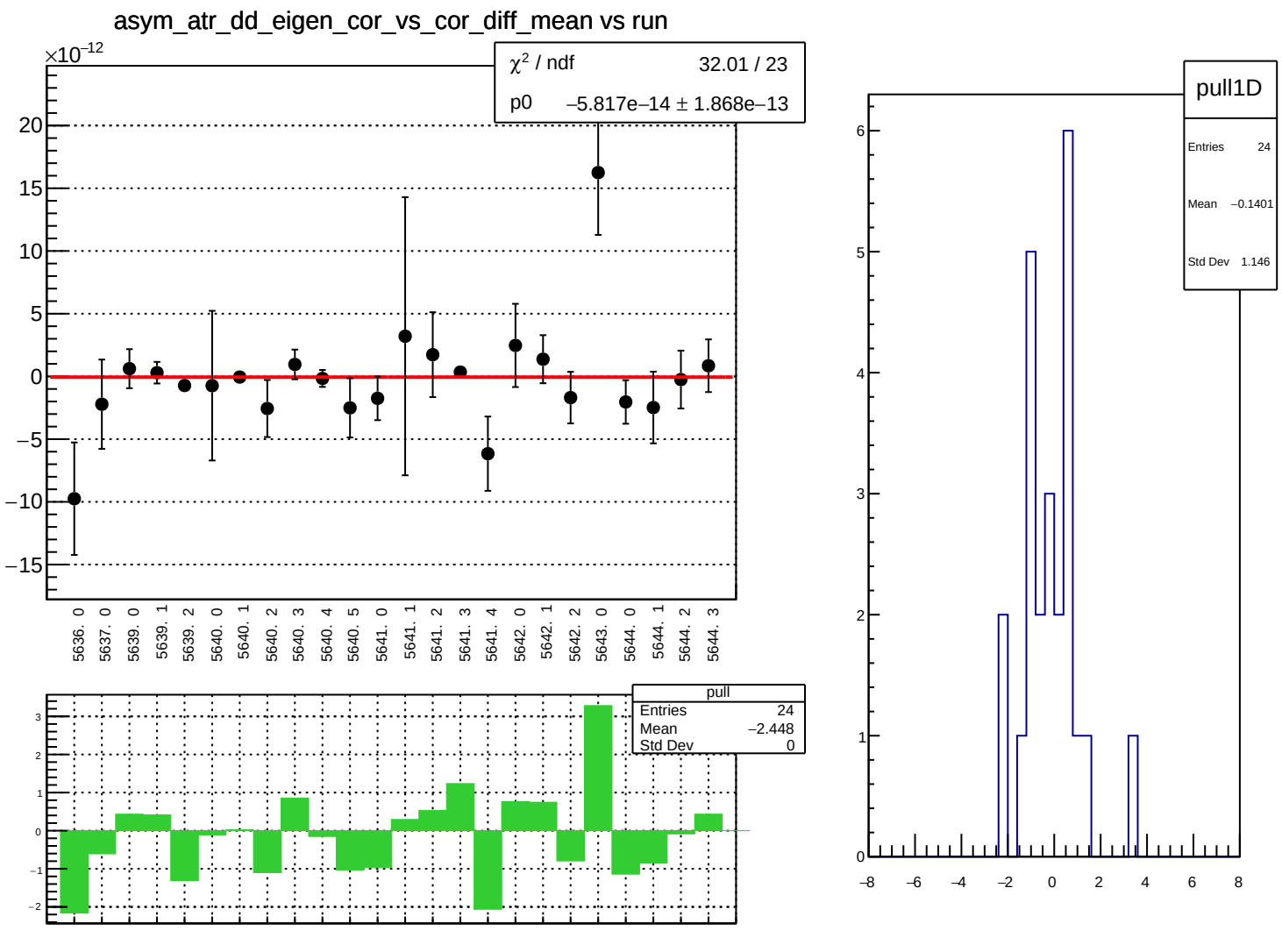

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1783 / 23
p0 0.007523 ± 1.085e−05
0.009
0.0085
0.008
0.0075
0.007
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

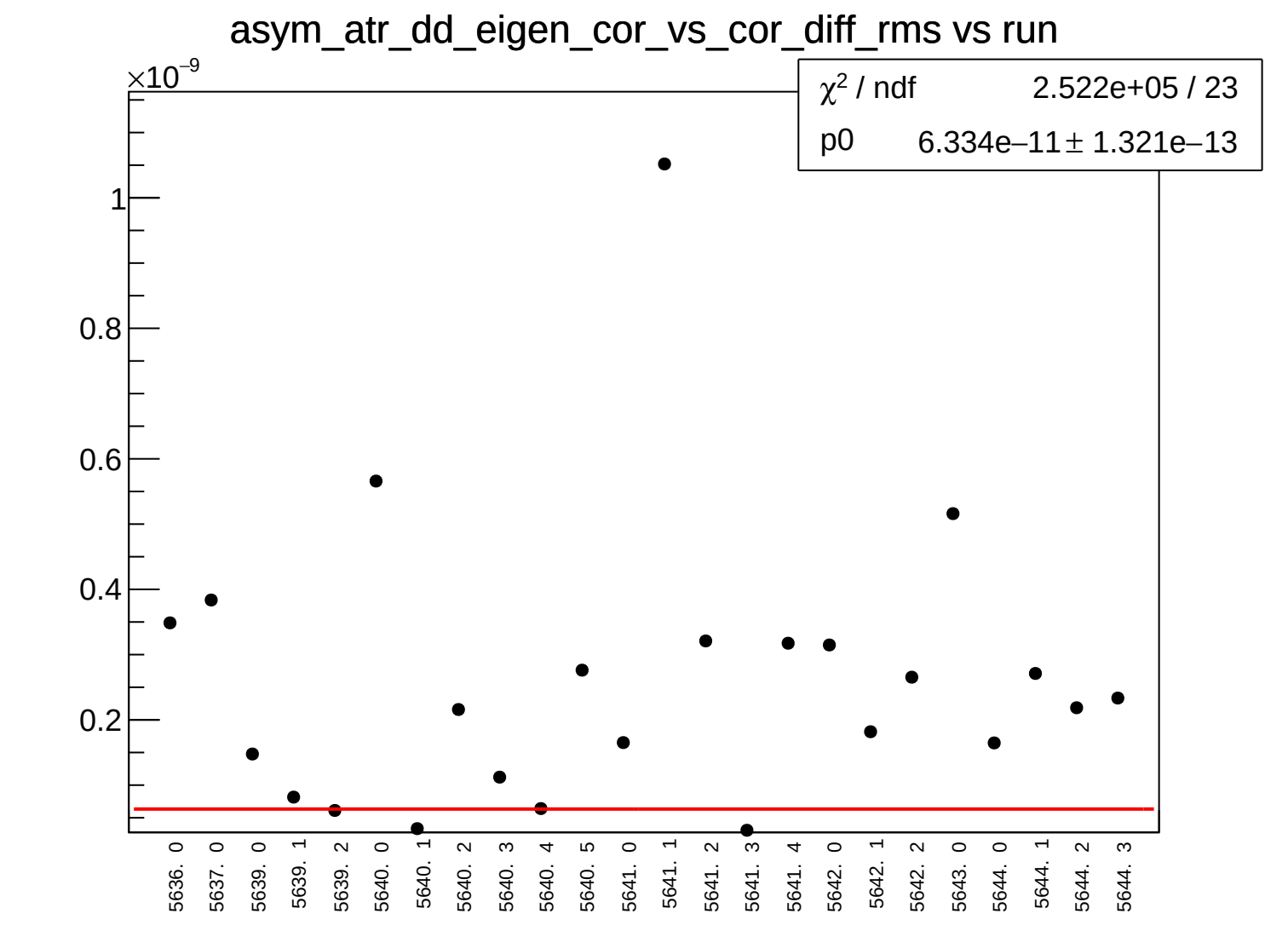

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 24 / 23
p0 0.1831 ± 0.2262
6
4
2
0
−2
−4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 125.3
Std Dev 0
3
2
1
0
−1
pull1D
Entries 24
Mean 0.01166
Std Dev 1
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

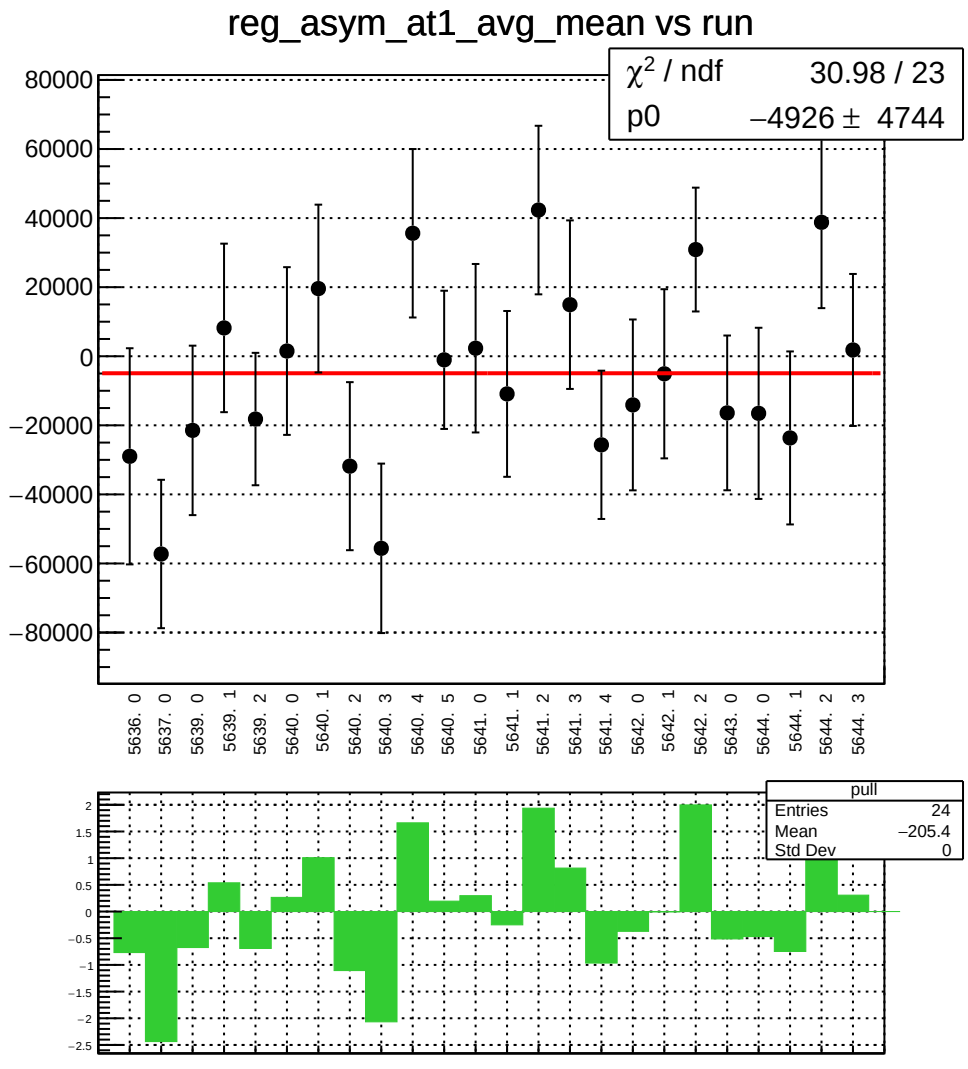

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.516e+04 / 23
p0 108.1 ± 0.1599
200
180
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

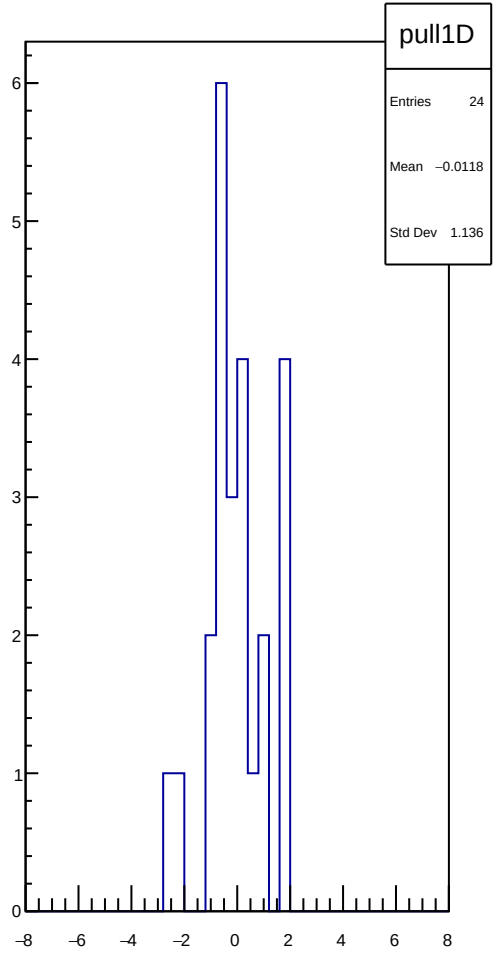

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24 / 23
p0 0.1831 ± 0.2262
6
4
2
0
−2
−4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 125.3
Std Dev 0
3
2
1
0
−1
pull1D
Entries 24
Mean 0.01166
Std Dev 1
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

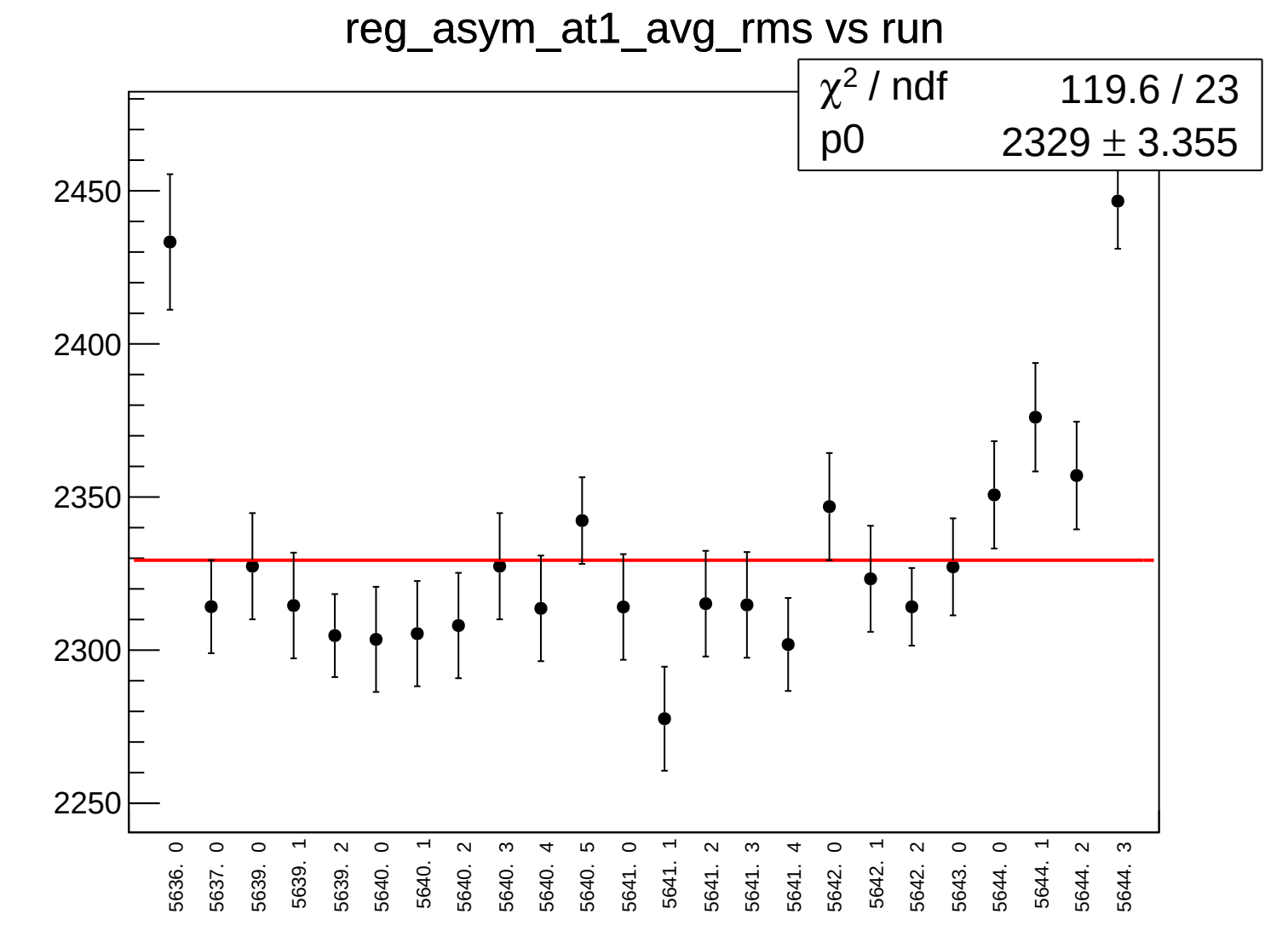

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.516e+04 / 23
p0 108.1 ± 0.1599
200
180
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

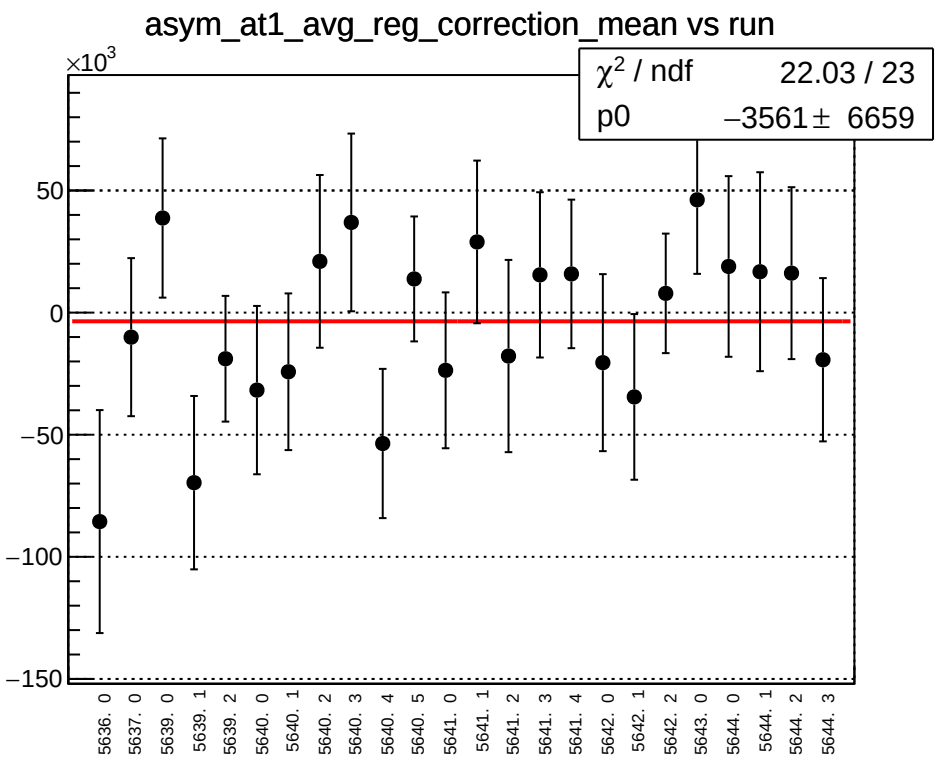

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 32.01 / 23
p0 −5.817e−14 ± 1.868e−13
20
15
10
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −2.448
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 24
Mean −0.1401
Std Dev 1.146
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

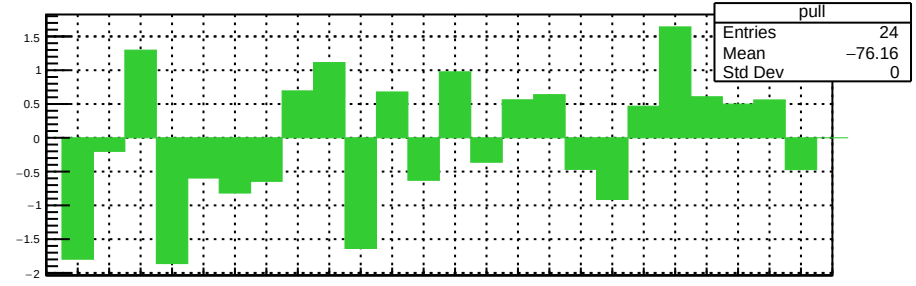

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.522e+05 / 23
p0 6.334e−11 ± 1.321e−13
1
0.8
0.6
0.4
0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

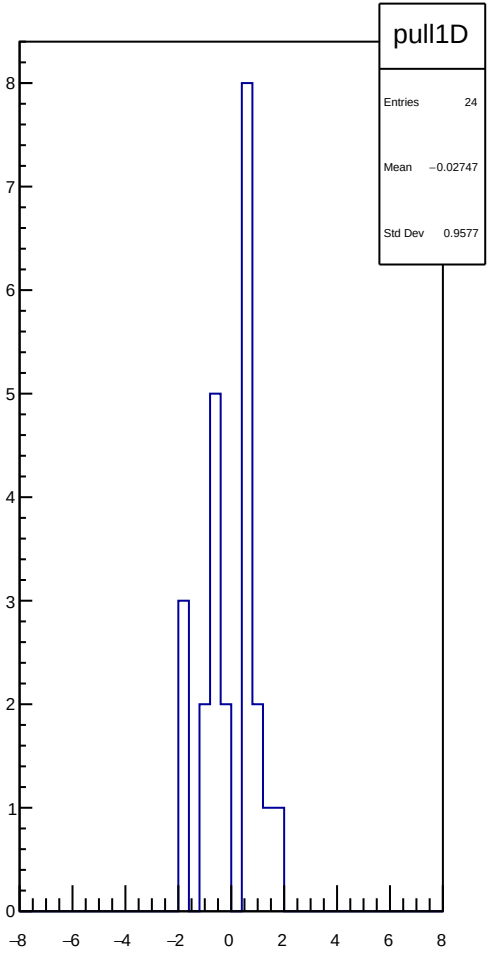

reg_asym_at1_avg_mean vs run
χ² / ndf 30.98 / 23
p0 −4926 ± 4744
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −205.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

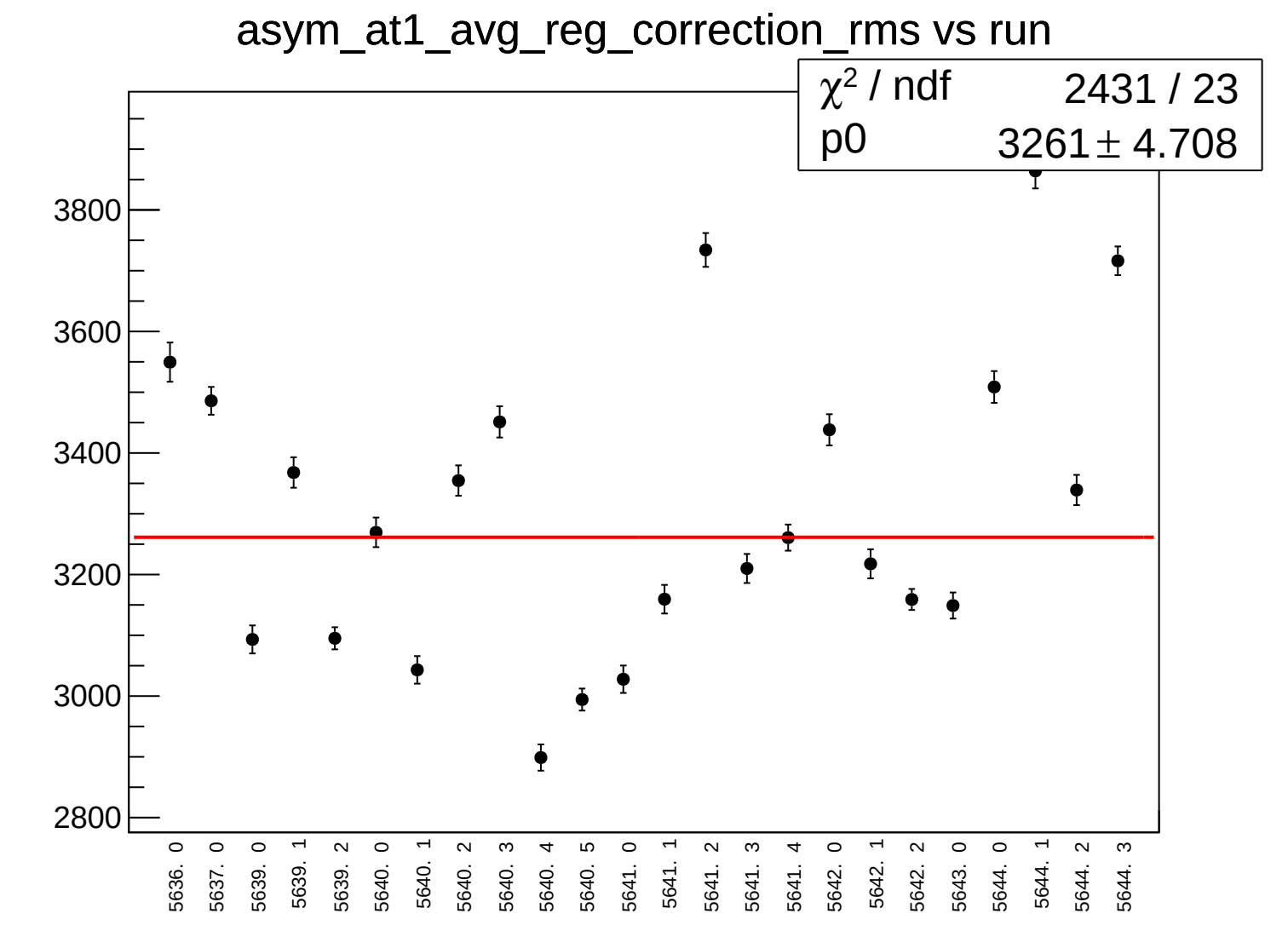

pull1D
Entries 24
Mean −0.0118
Std Dev 1.136
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

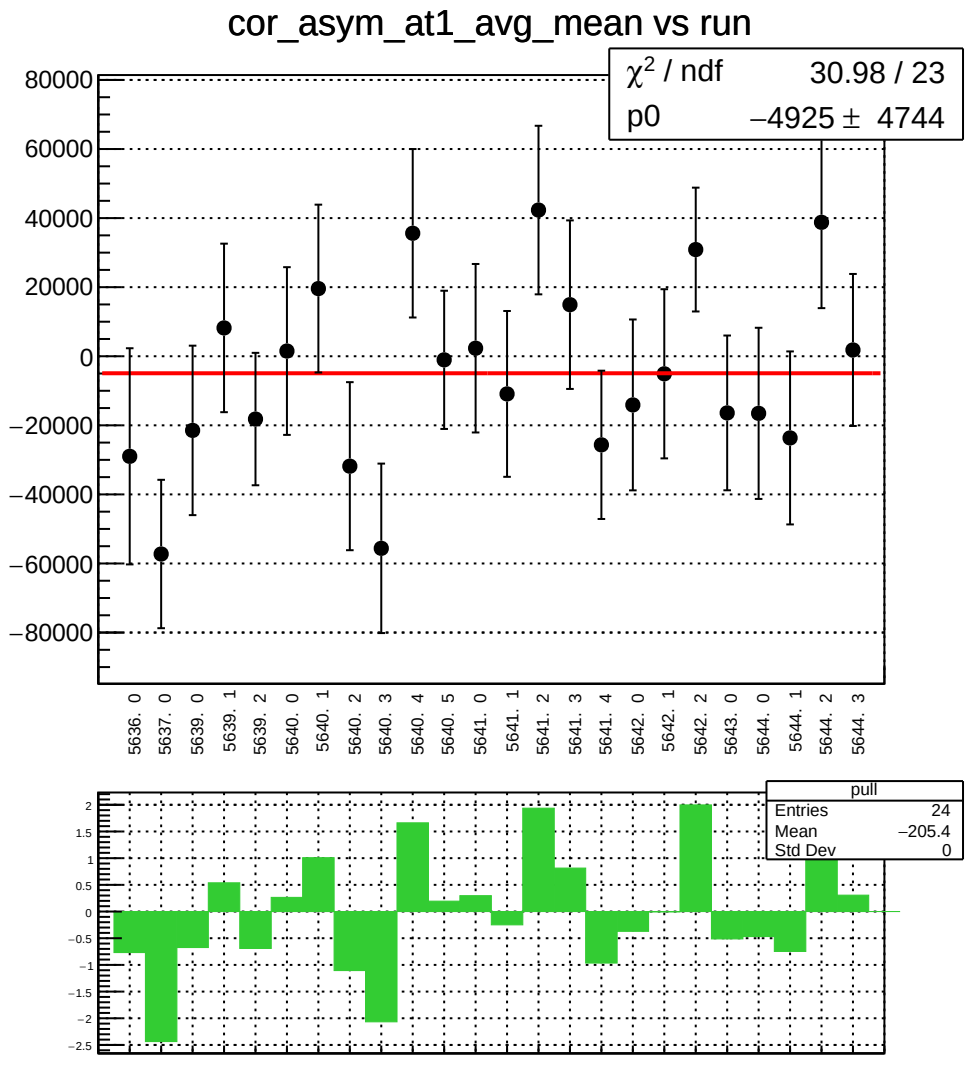

reg_asym_at1_avg_rms vs run
χ² / ndf 119.6 / 23
p0 2329 ± 3.355
2450
2400
2350
2300
2250
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

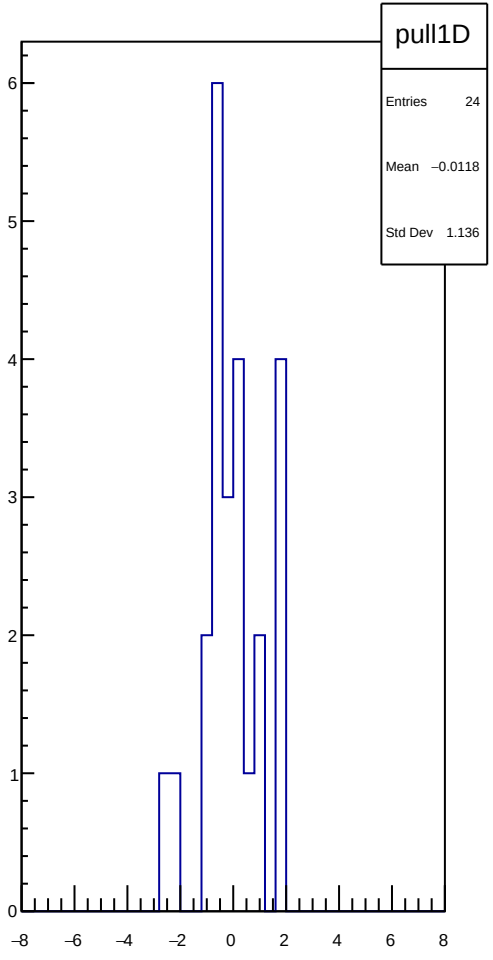

asym_at1_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 22.03 / 23
p0 −3561 ± 6659
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

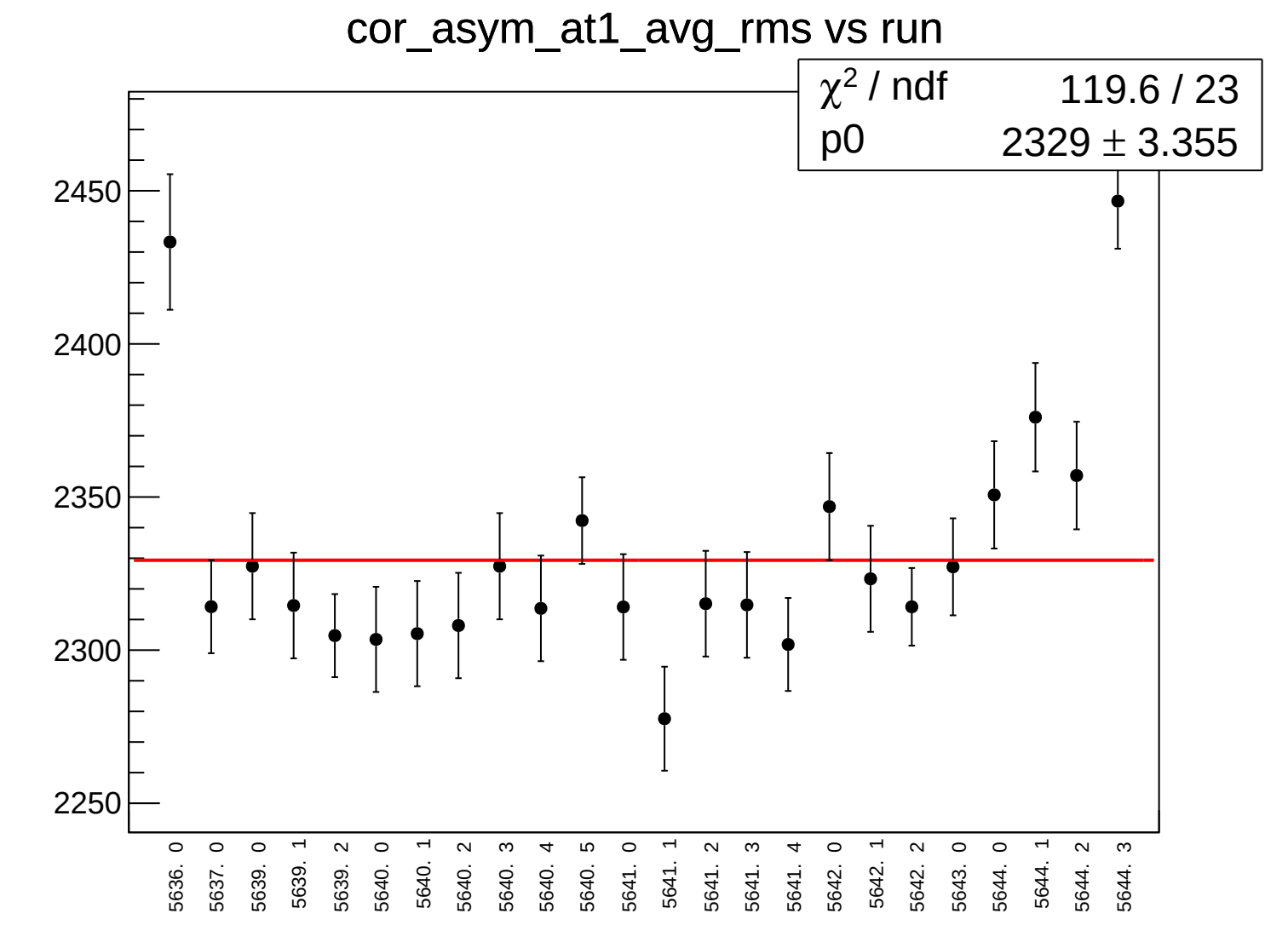

pull
Entries 24
Mean −76.16
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

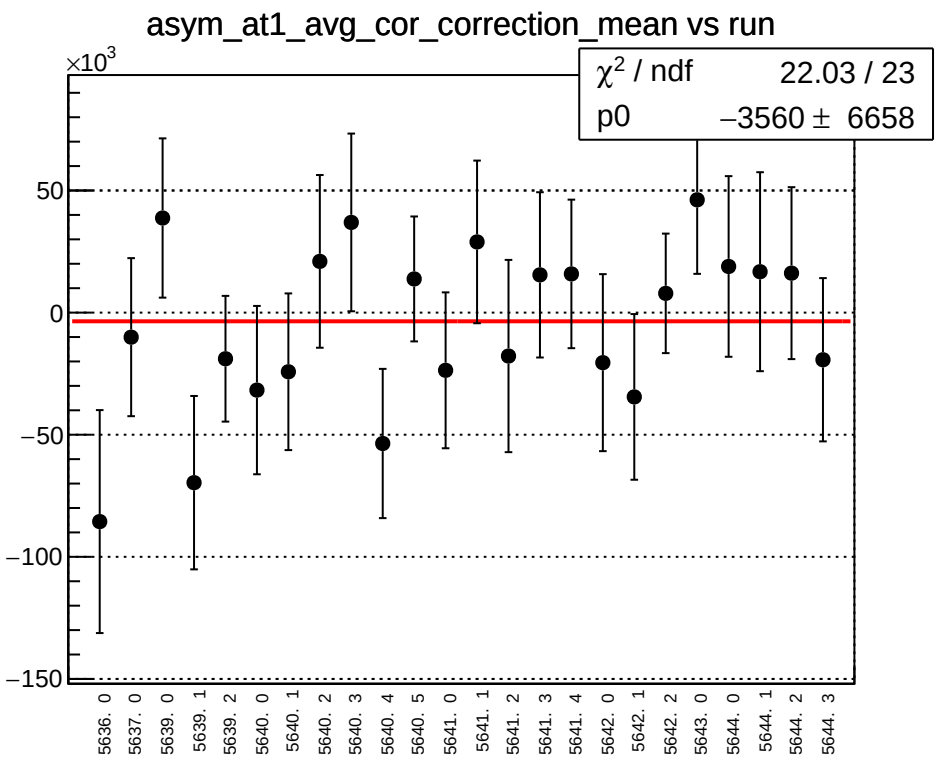

pull1D
Entries 24
Mean −0.02747
Std Dev 0.9577
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_reg_correction_rms vs run
χ² / ndf 2431 / 23
p0 3261 ± 4.708
3800
3600
3400
3200
3000
2800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


cor_asym_at1_avg_mean vs run
χ² / ndf 30.98 / 23
p0 −4925 ± 4744
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −205.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 24
Mean −0.0118
Std Dev 1.136
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_at1_avg_rms vs run
χ² / ndf 119.6 / 23
p0 2329 ± 3.355
2450
2400
2350
2300
2250
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_at1_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 22.03 / 23
p0 −3560 ± 6658
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
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5644. 0
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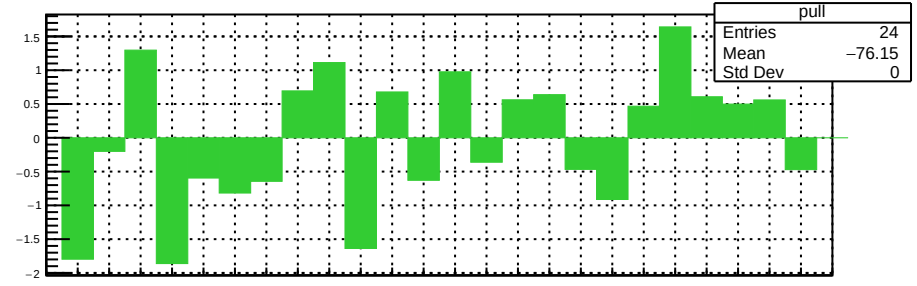
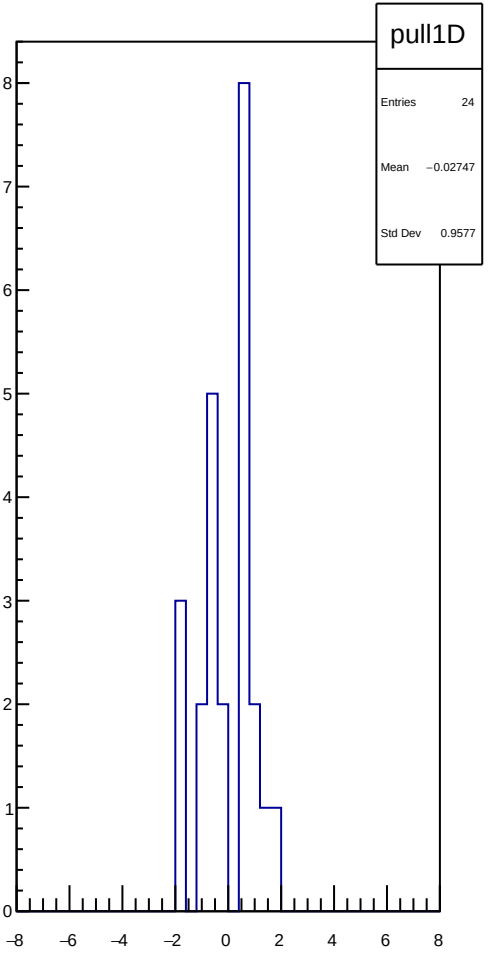
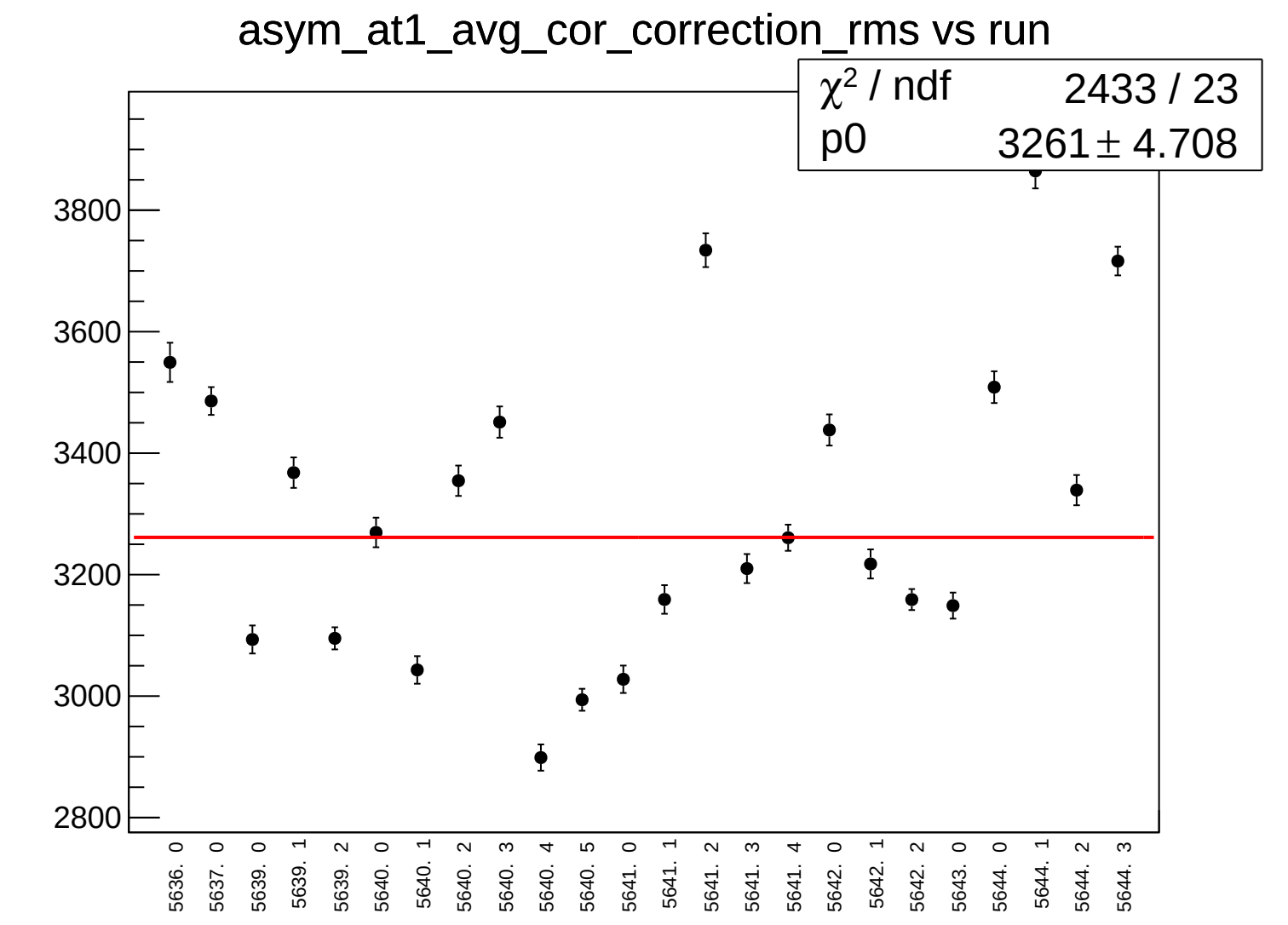
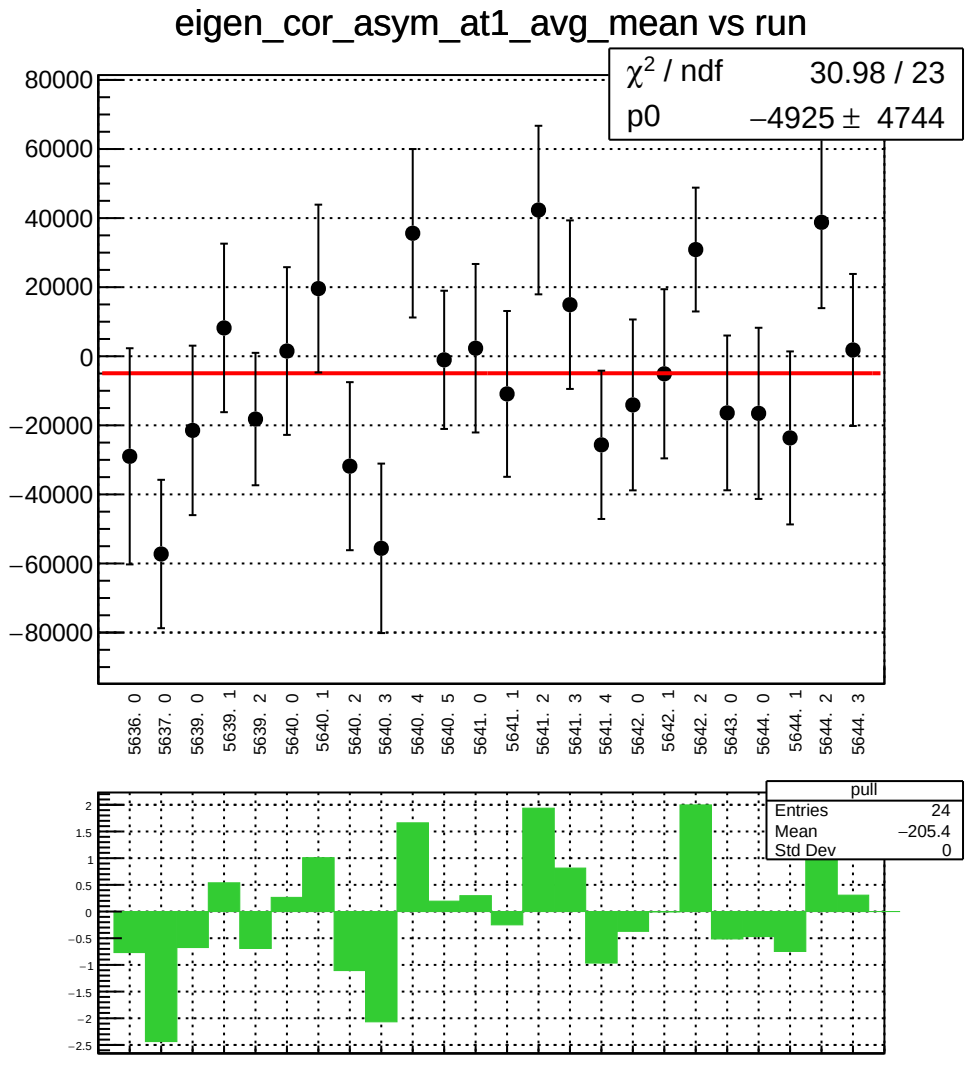
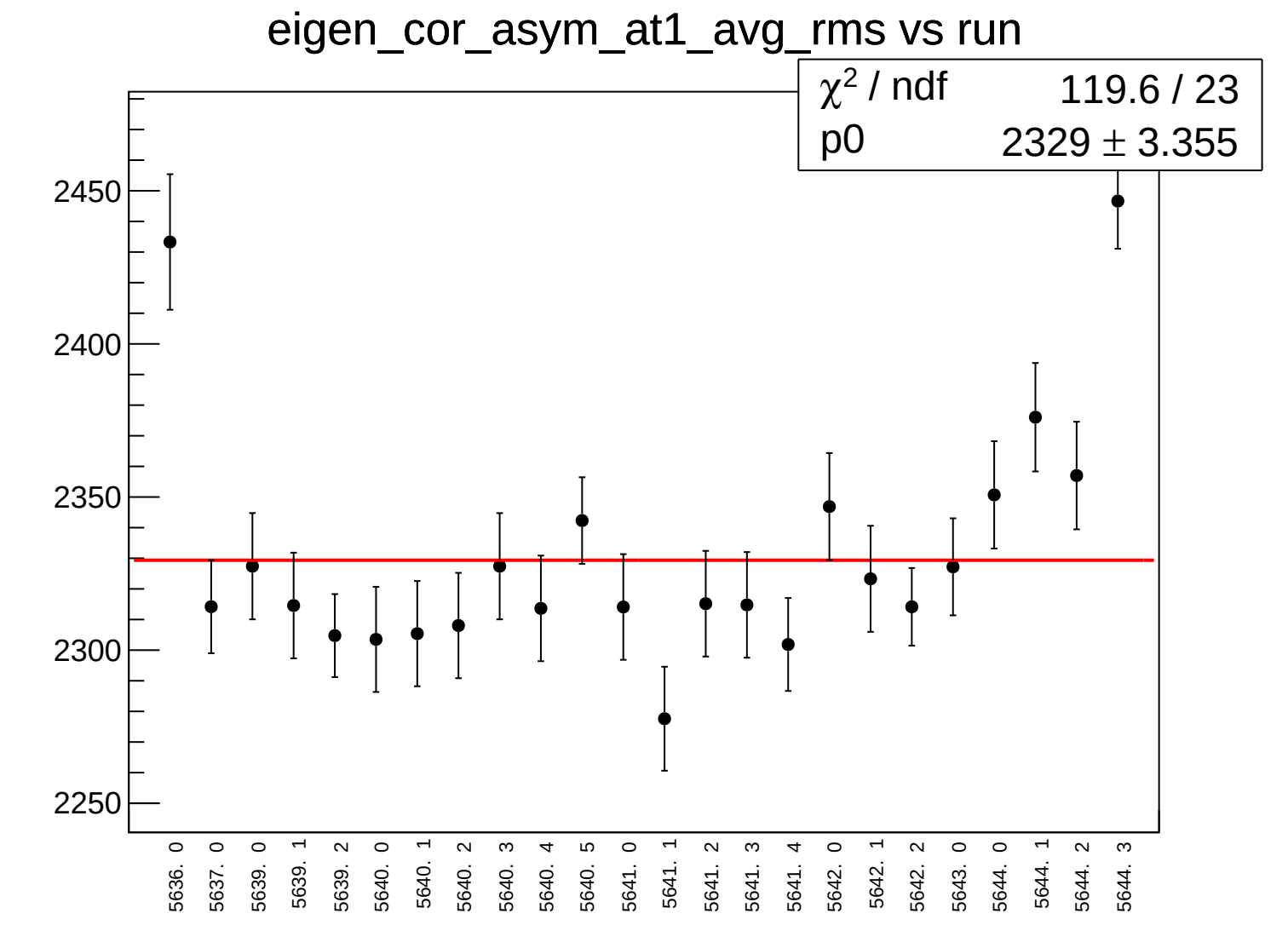
5644. 2
5644. 3

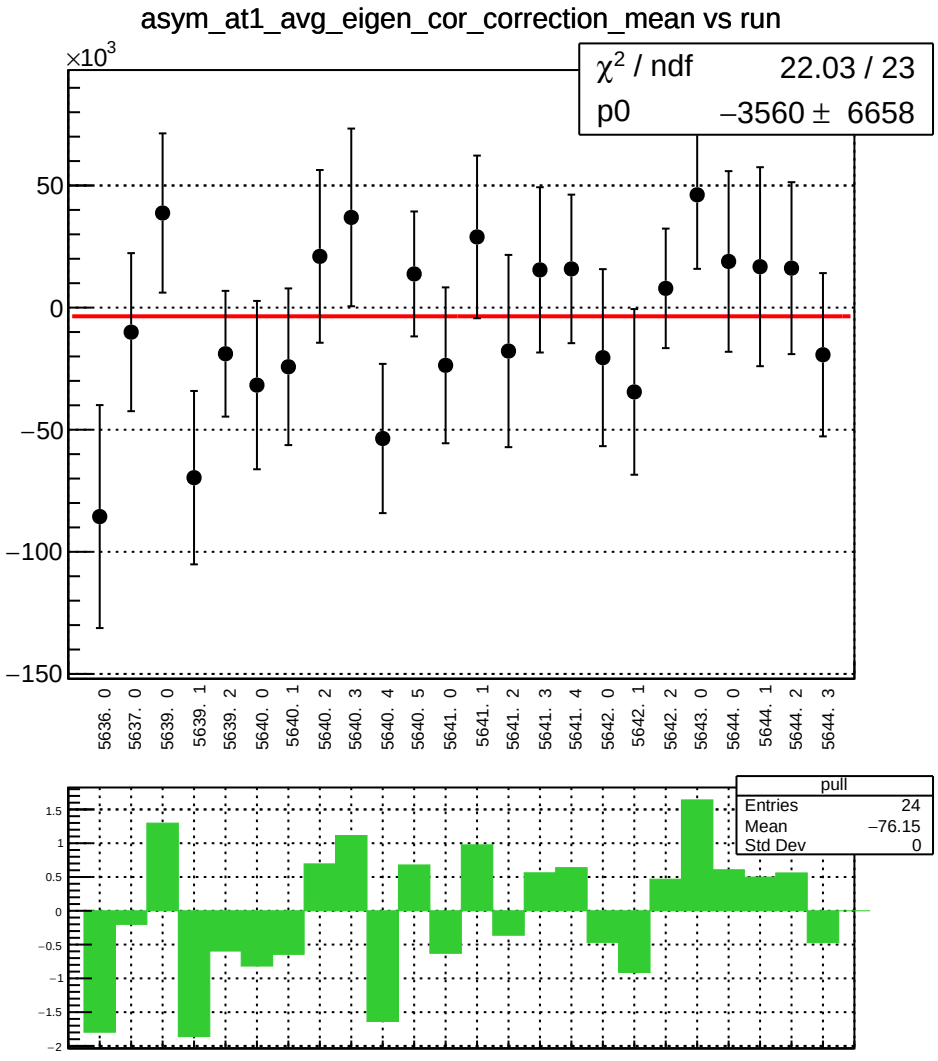

pull
Entries 24
Mean −76.15
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

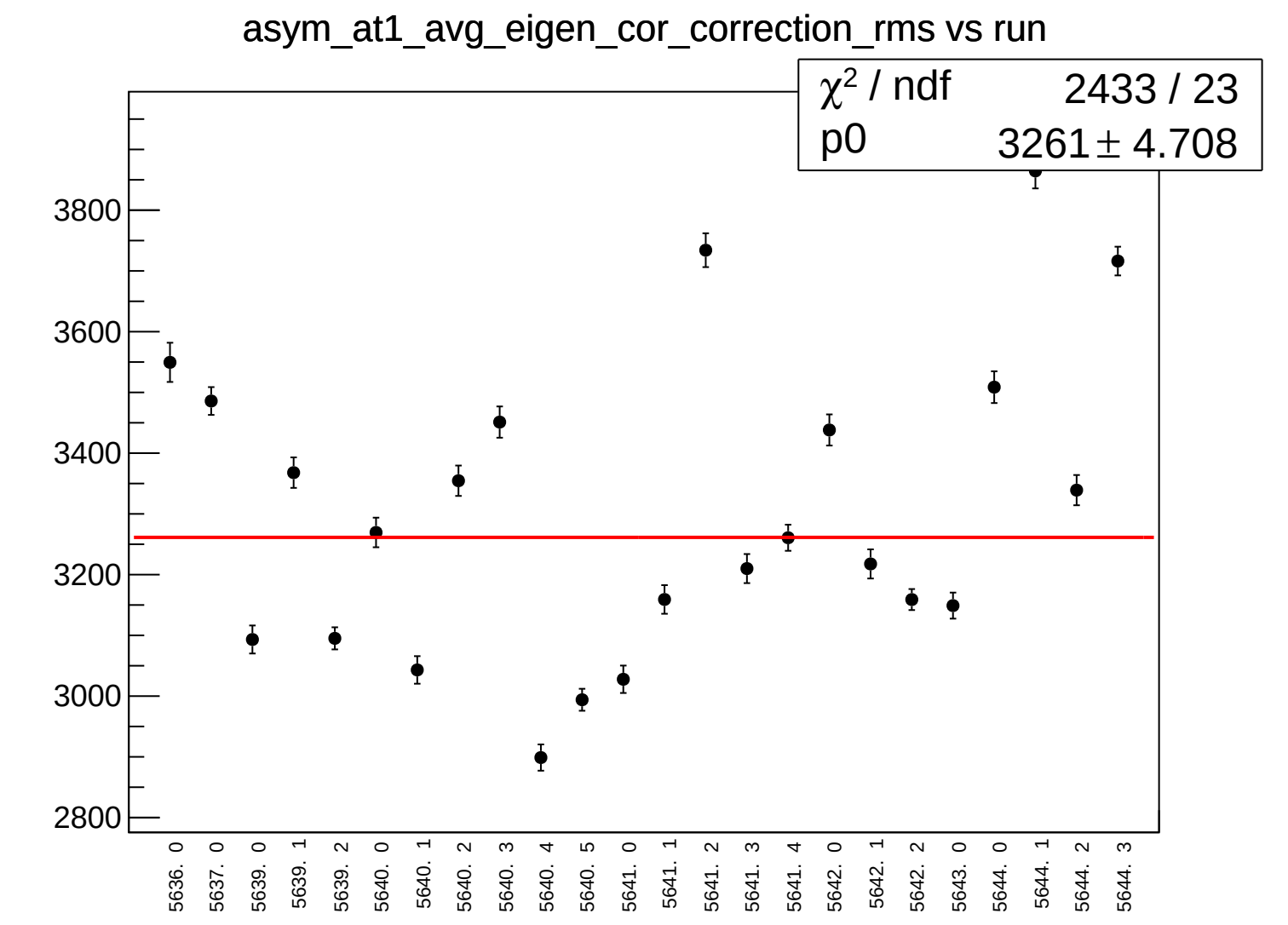

pull1D
Entries 24
Mean −0.02747
Std Dev 0.9577
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

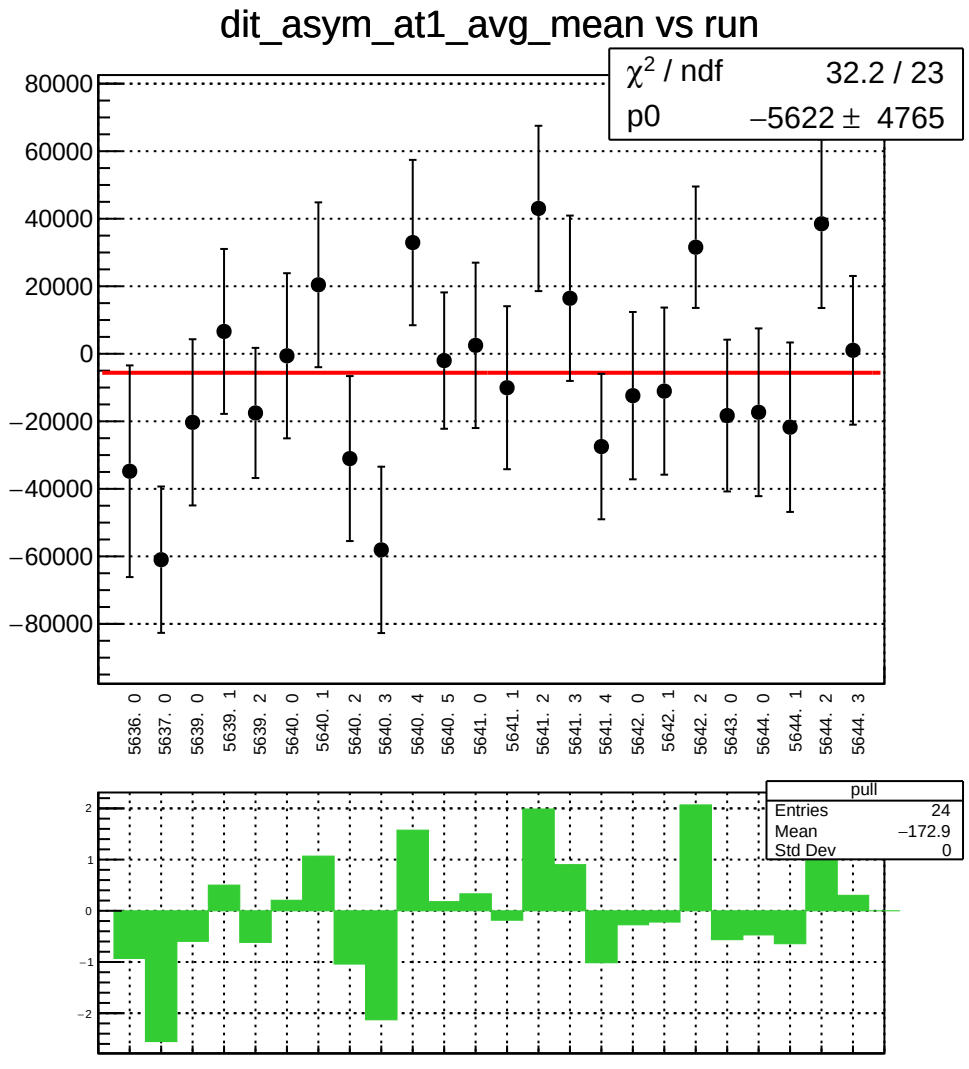

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 2433 / 23
p0 3261 ± 4.708
3800
3600
3400
3200
3000
2800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

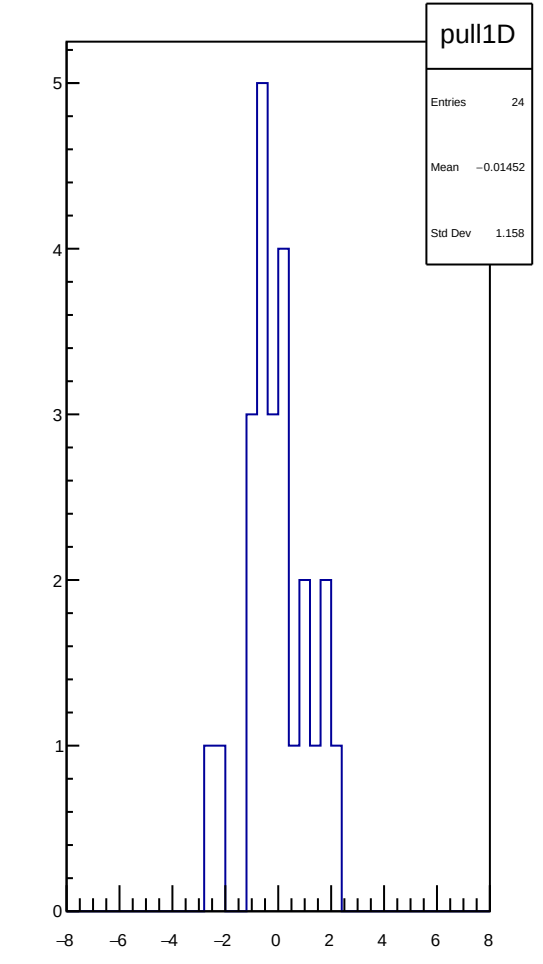

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 30.98 / 23
p0 −4925 ± 4744
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −205.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean −0.0118
Std Dev 1.136
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

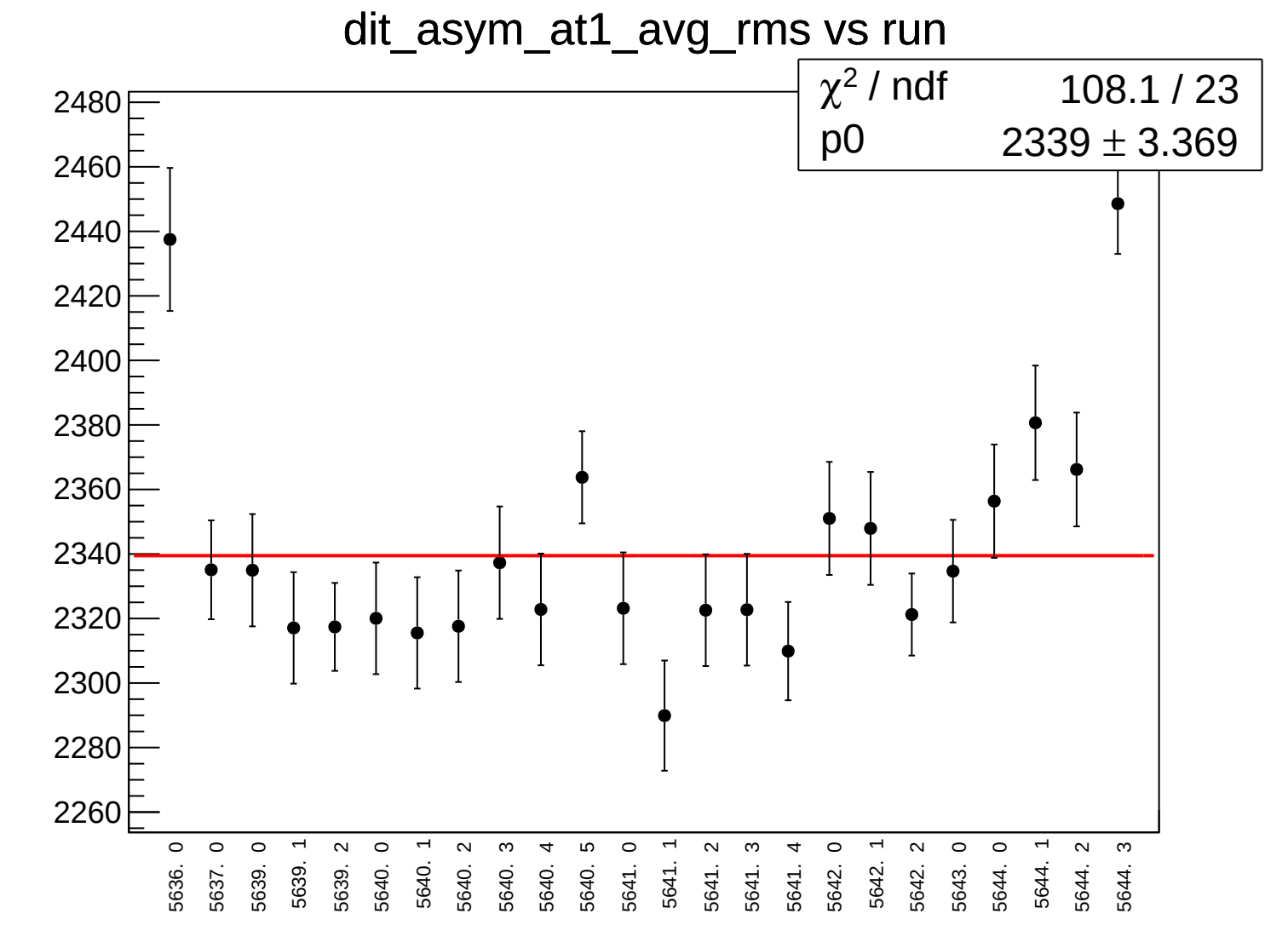

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 119.6 / 23
p0 2329 ± 3.355
2450
2400
2350
2300
2250
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

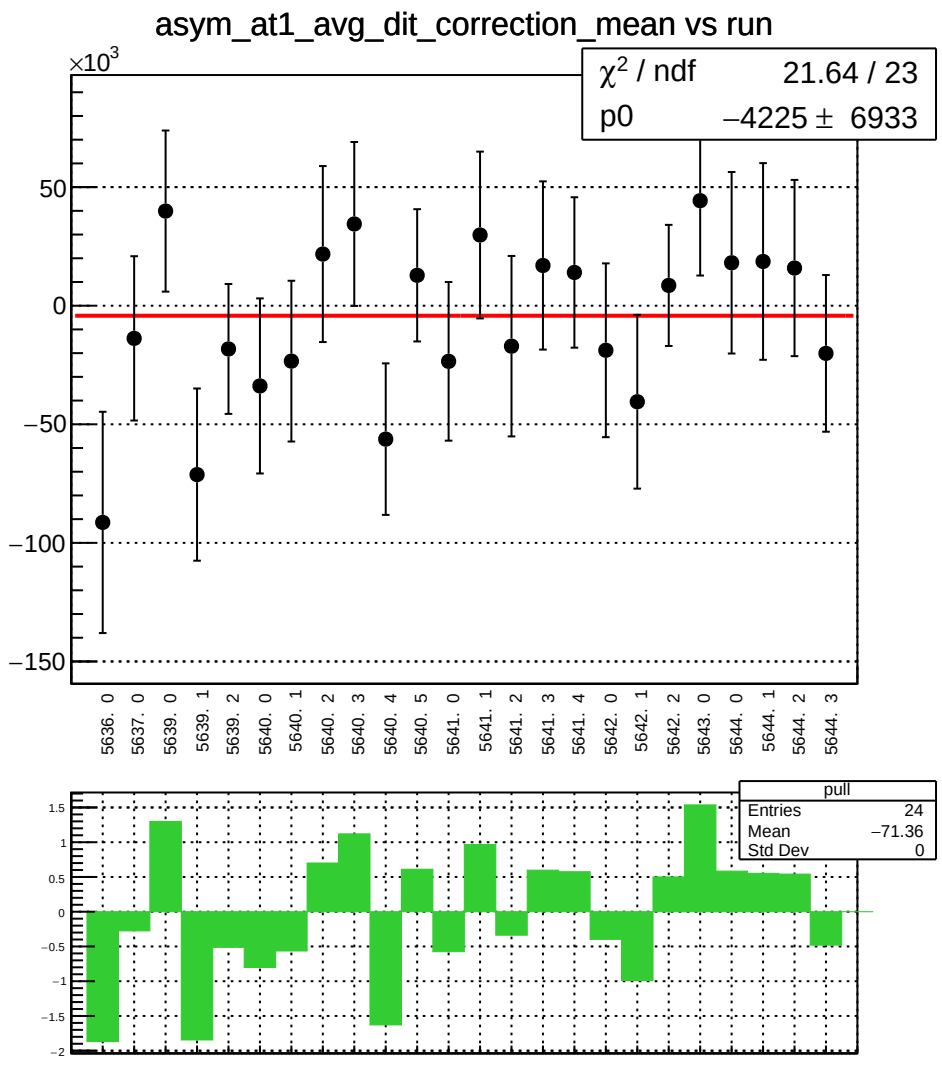

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 22.03 / 23
p0 −3560 ± 6658
×10³
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −76.15
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.02747
Std Dev 0.9577
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

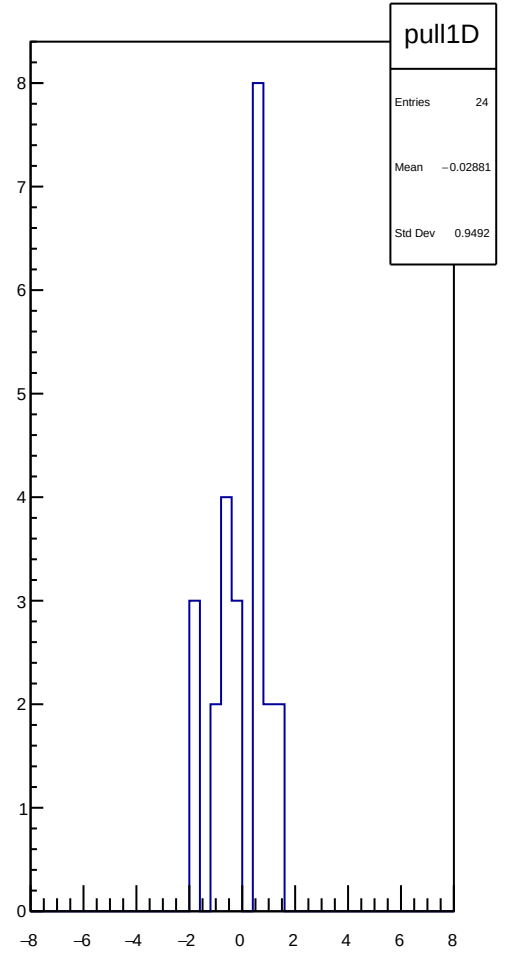

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 2433 / 23
p0 3261 ± 4.708
3800
3600
3400
3200
3000
2800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

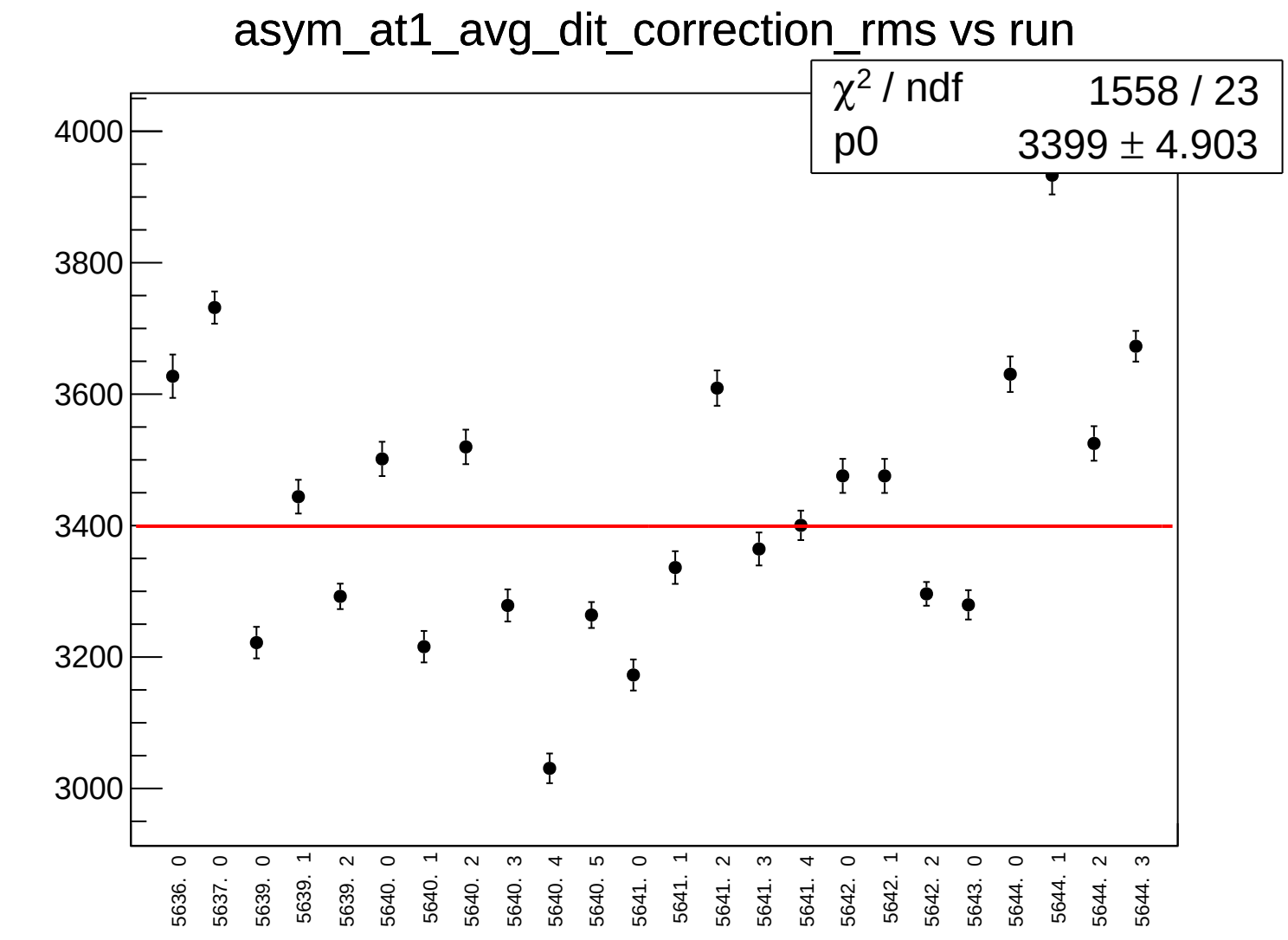

dit_asym_at1_avg_mean vs run
χ² / ndf 32.2 / 23
p0 −5622 ± 4765
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −172.9
Std Dev 0
2
1
0
−1
−2

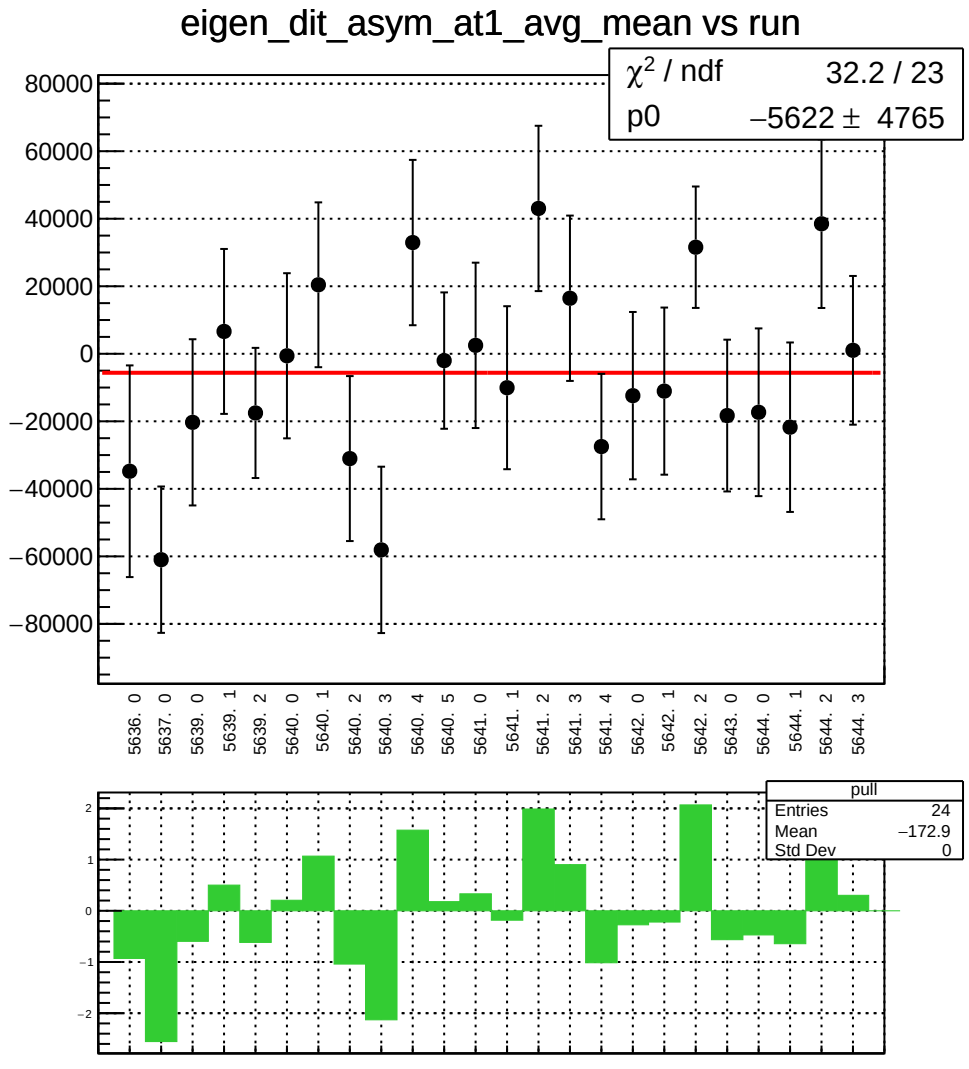

pull1D
Entries 24
Mean −0.01452
Std Dev 1.158
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

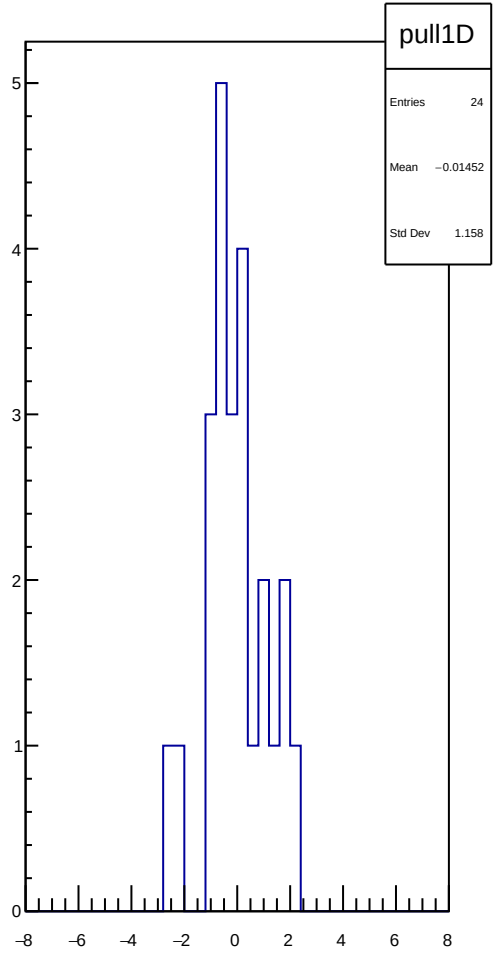

dit_asym_at1_avg_rms vs run
χ² / ndf 108.1 / 23
p0 2339 ± 3.369
2480
2460
2440
2420
2400
2380
2360
2340
2320
2300
2280
2260
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

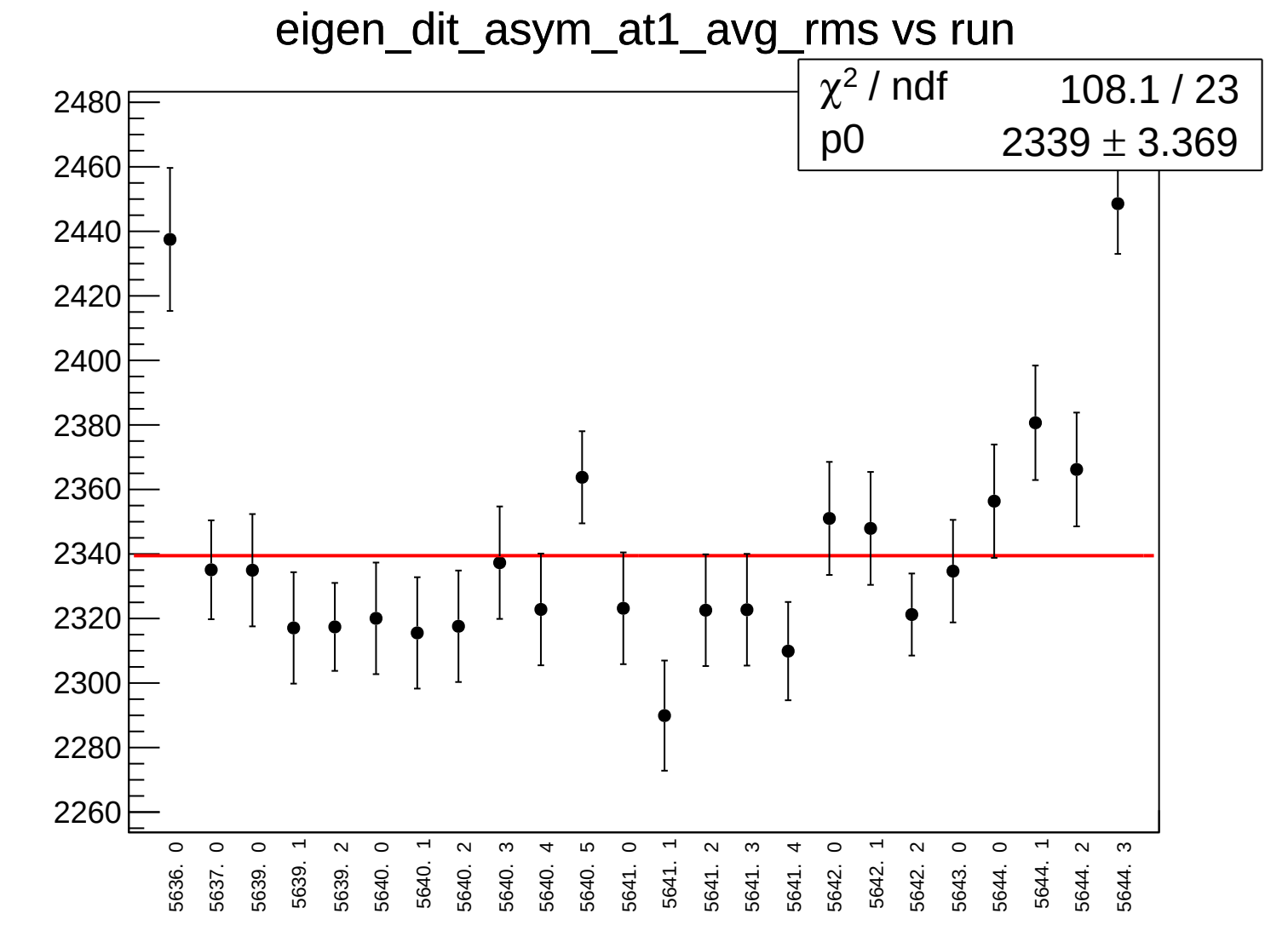

asym_at1_avg_dit_correction_mean vs run
×10^3
χ² / ndf 21.64 / 23
p0 −4225 ± 6933
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −71.36
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

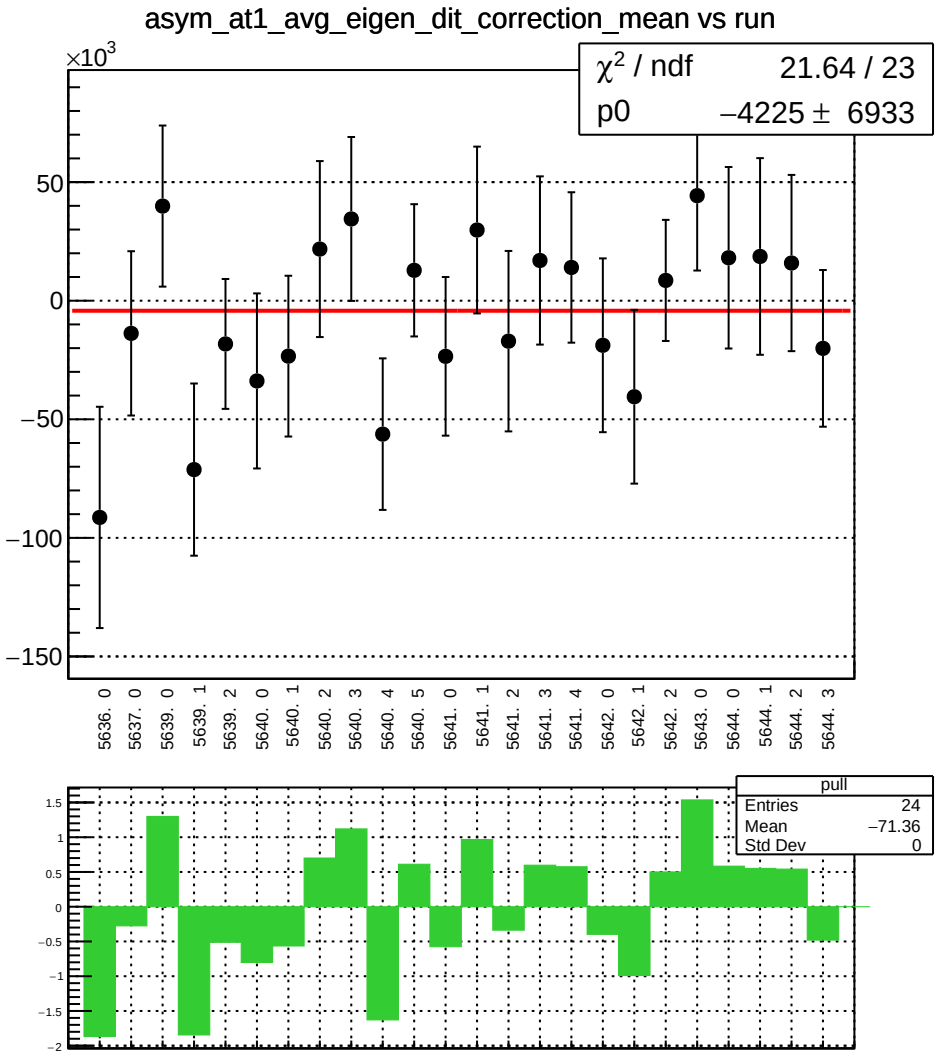

pull1D
Entries 24
Mean −0.02881
Std Dev 0.9492
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

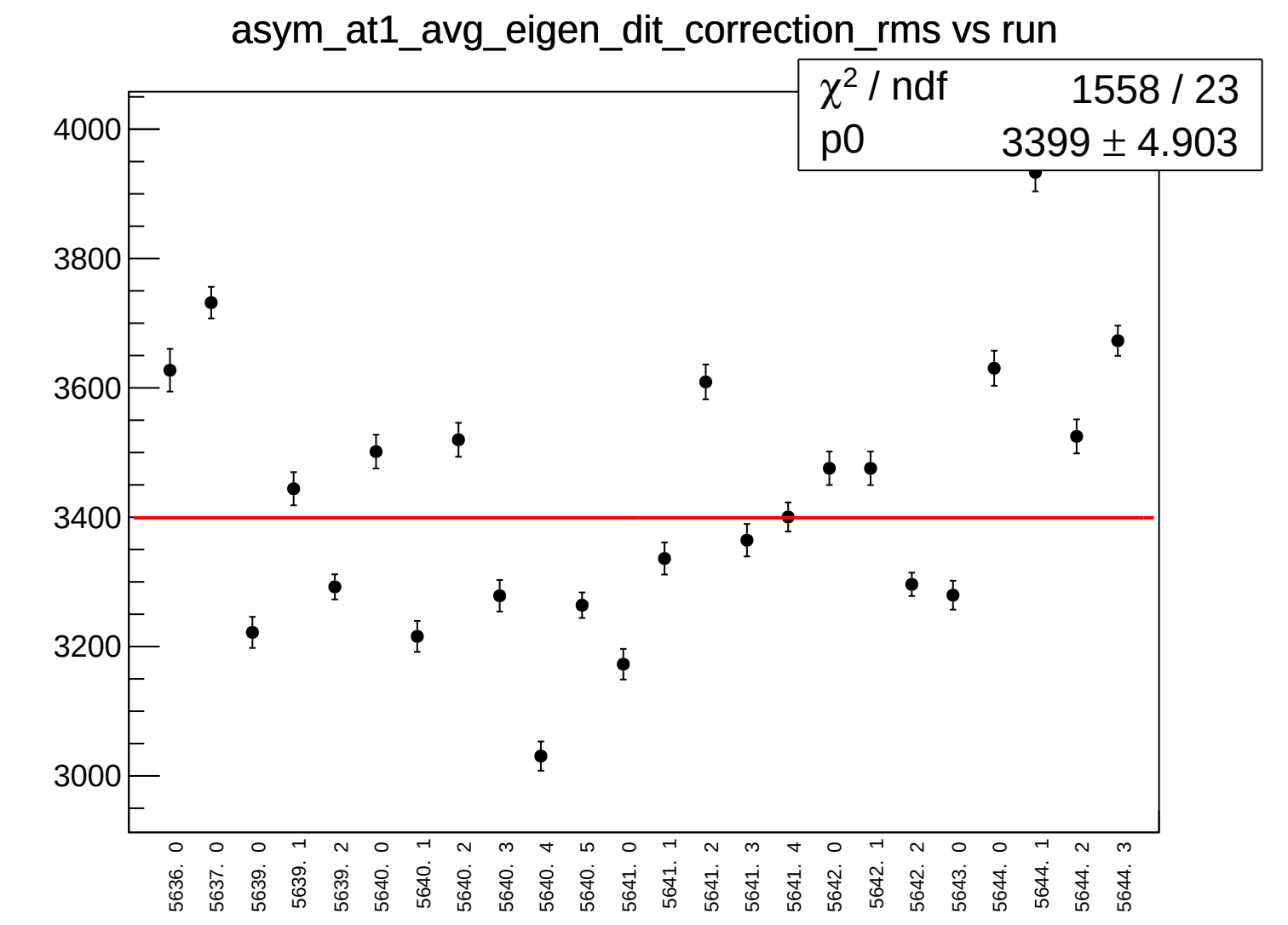

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 1558 / 23
p0 3399 ± 4.903
4000
3800
3600
3400
3200
3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

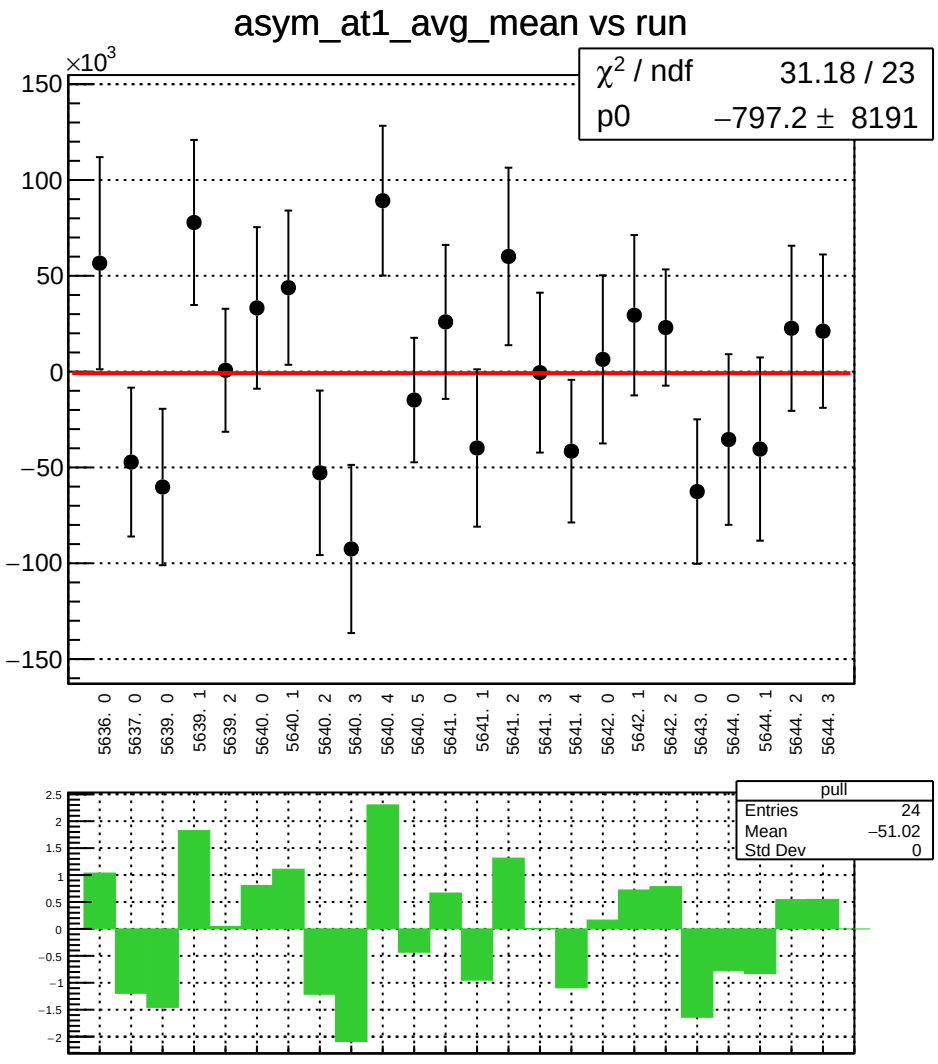

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 32.2 / 23
p0 −5622 ± 4765
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −172.9
Std Dev 0
2
1
0
−1
−2

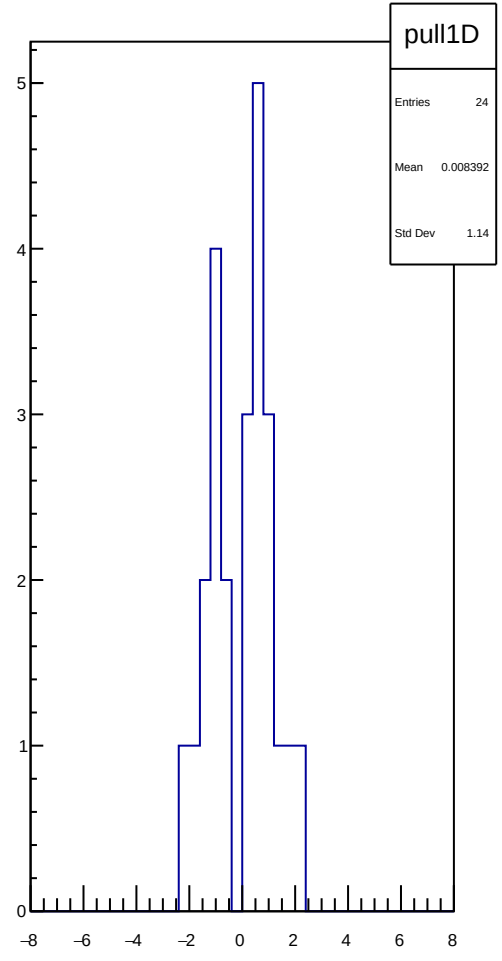

pull1D
Entries 24
Mean −0.01452
Std Dev 1.158
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

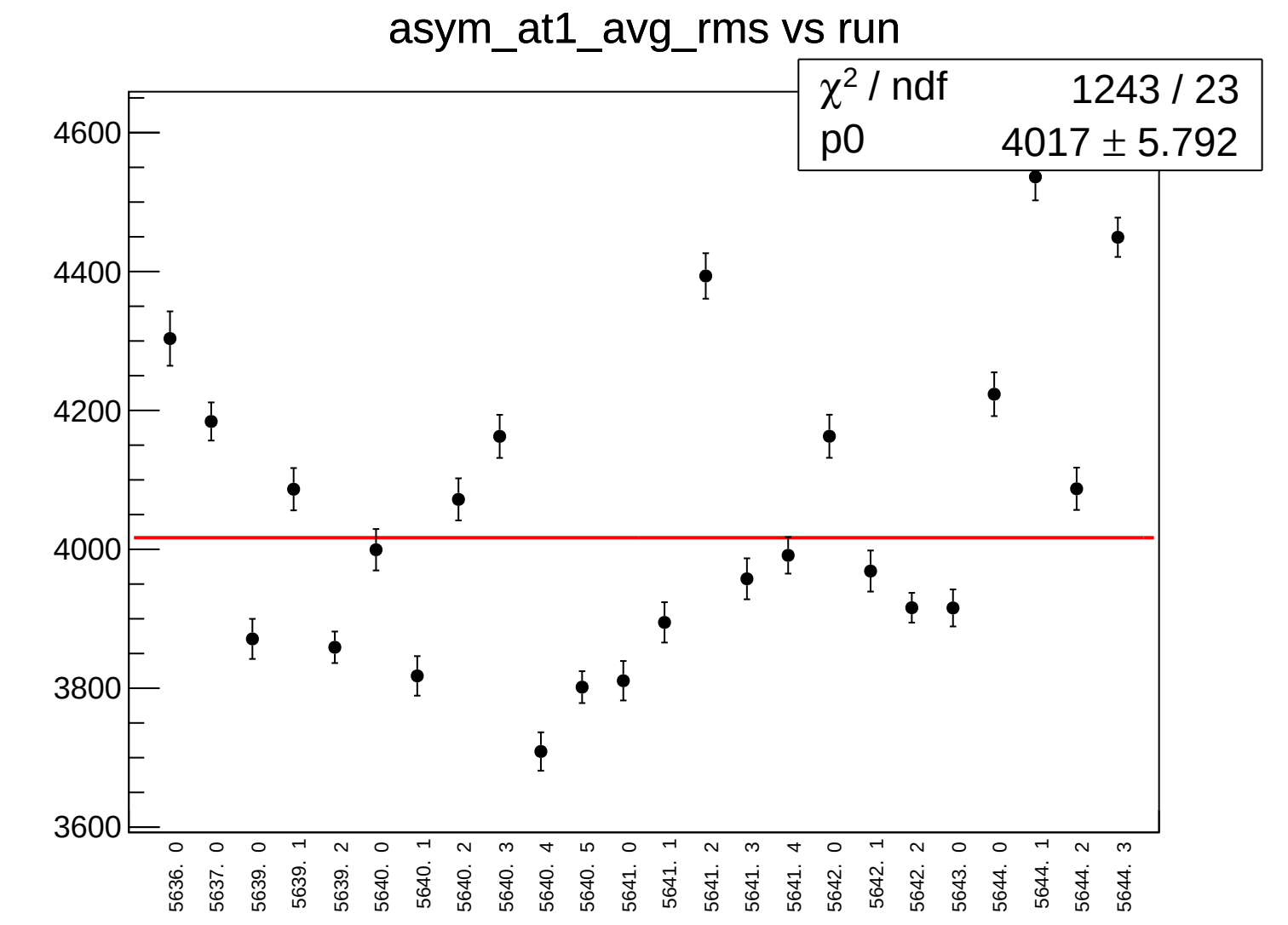

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 108.1 / 23
p0 2339 ± 3.369
2480
2460
2440
2420
2400
2380
2360
2340
2320
2300
2280
2260
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

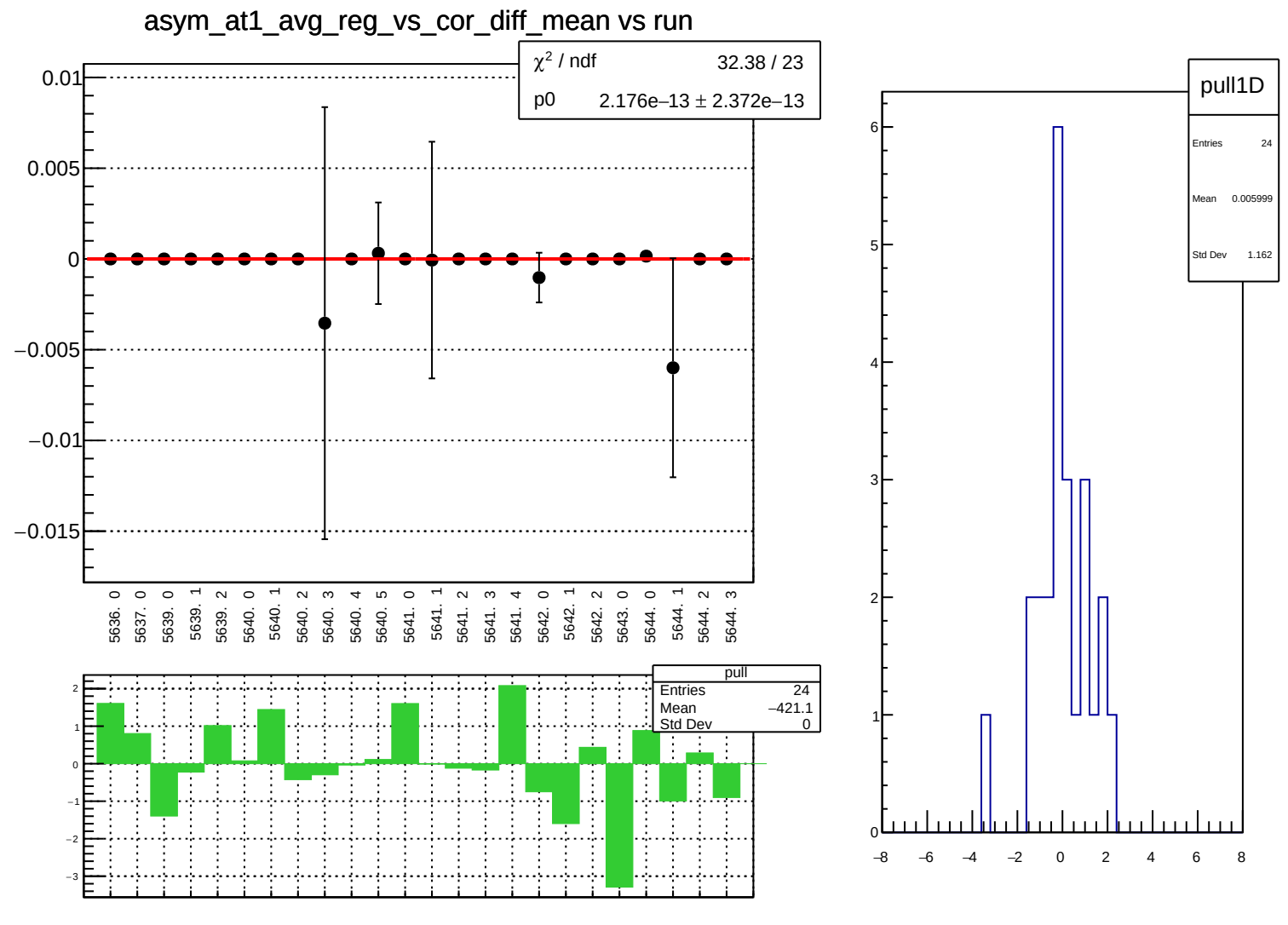

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 21.64 / 23
p0 −4225 ± 6933
×10³
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −71.36
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.02881
Std Dev 0.9492
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

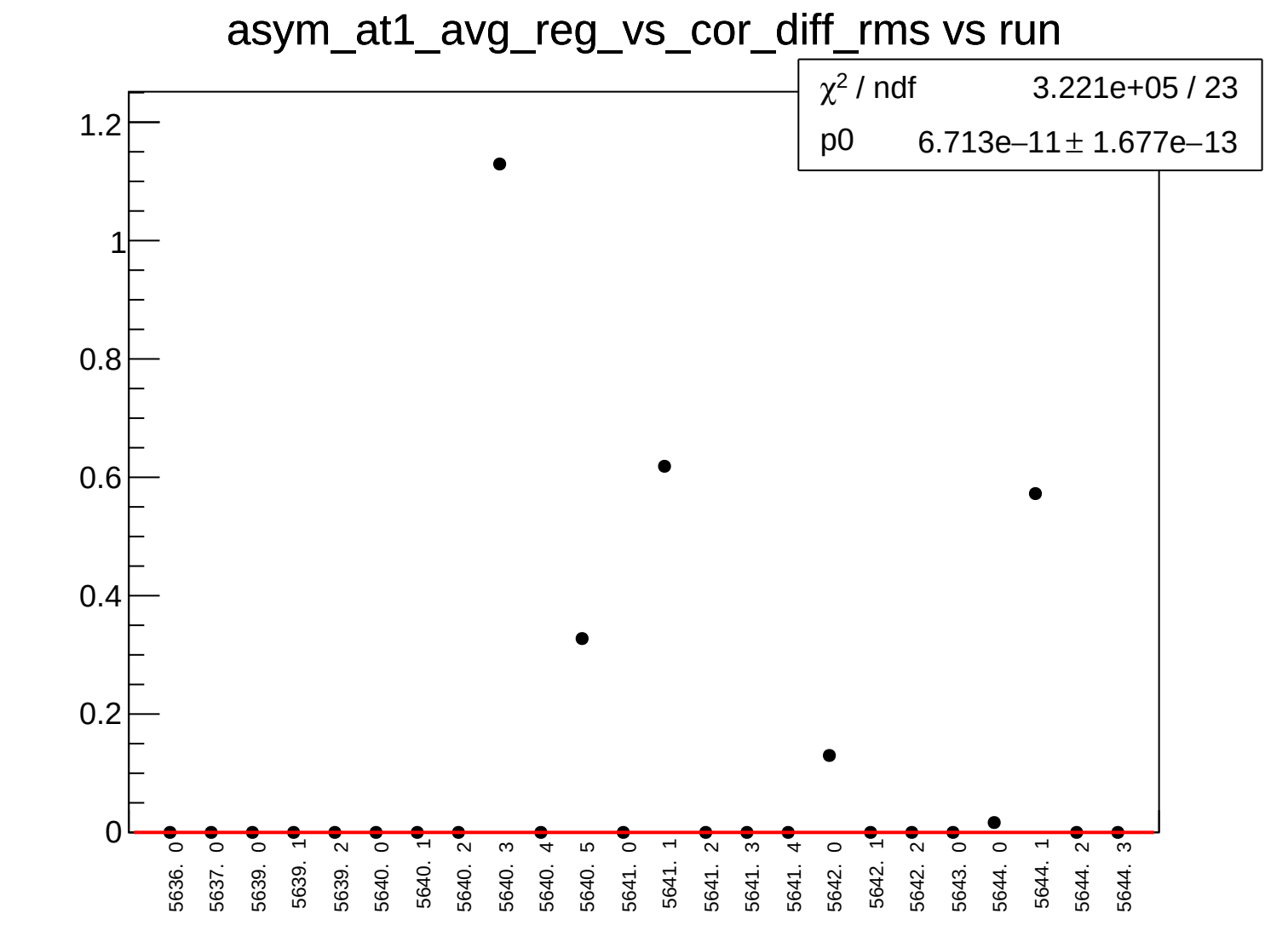

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1558 / 23
p0 3399 ± 4.903
4000
3800
3600
3400
3200
3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

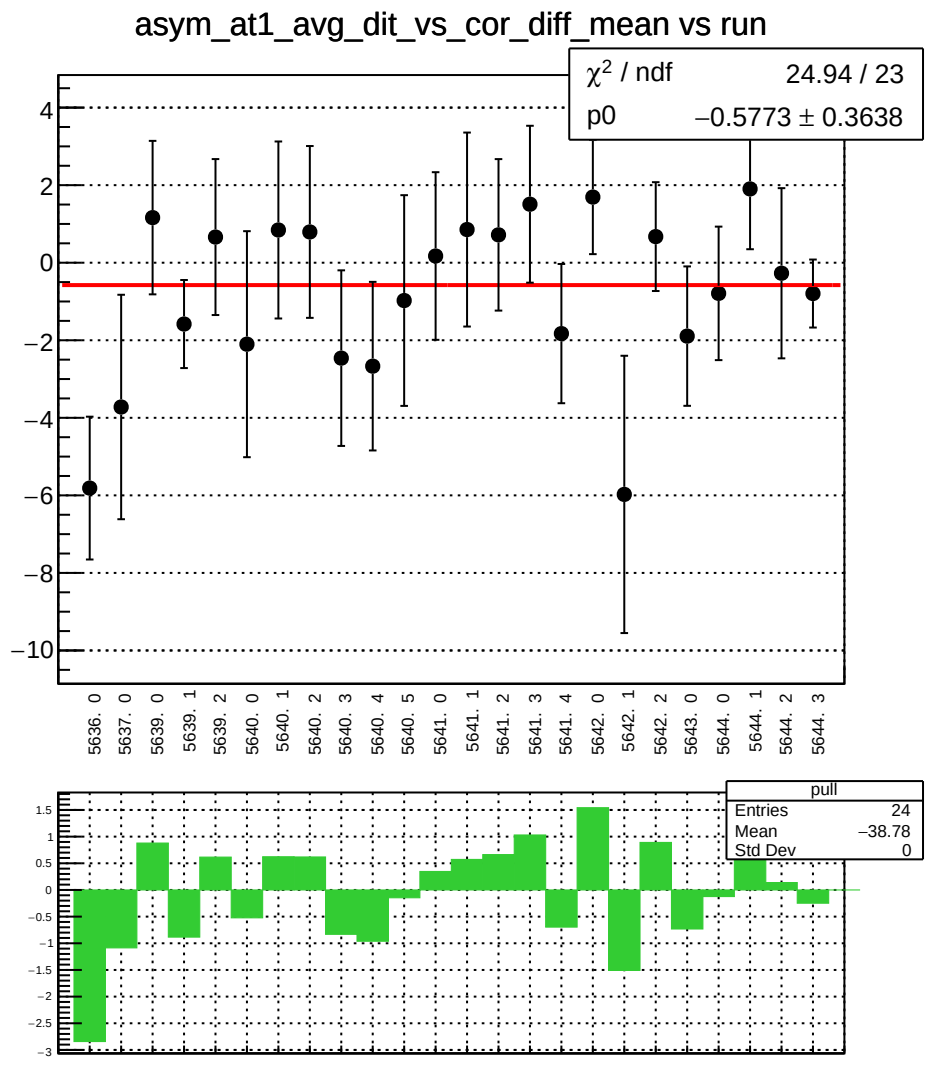

asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 31.18 / 23
p0 −797.2 ± 8191
150
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −51.02
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

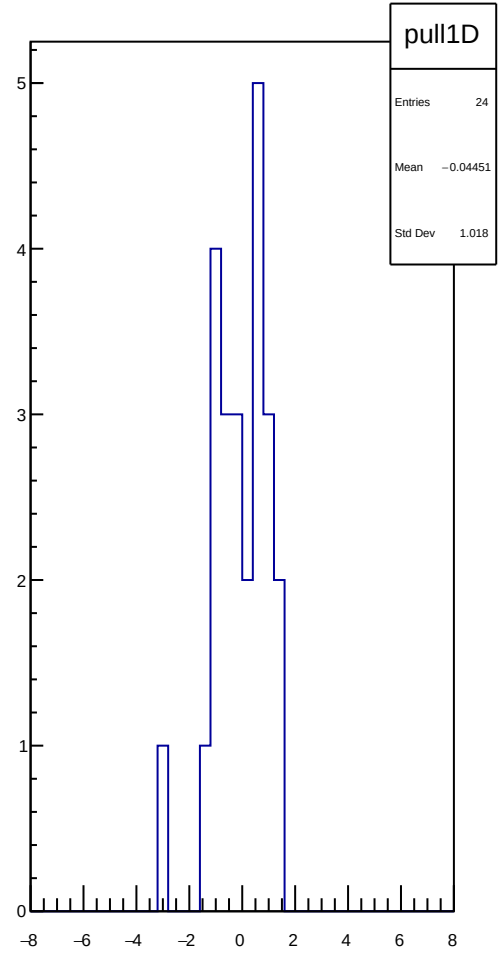

pull1D
Entries 24
Mean 0.008392
Std Dev 1.14
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

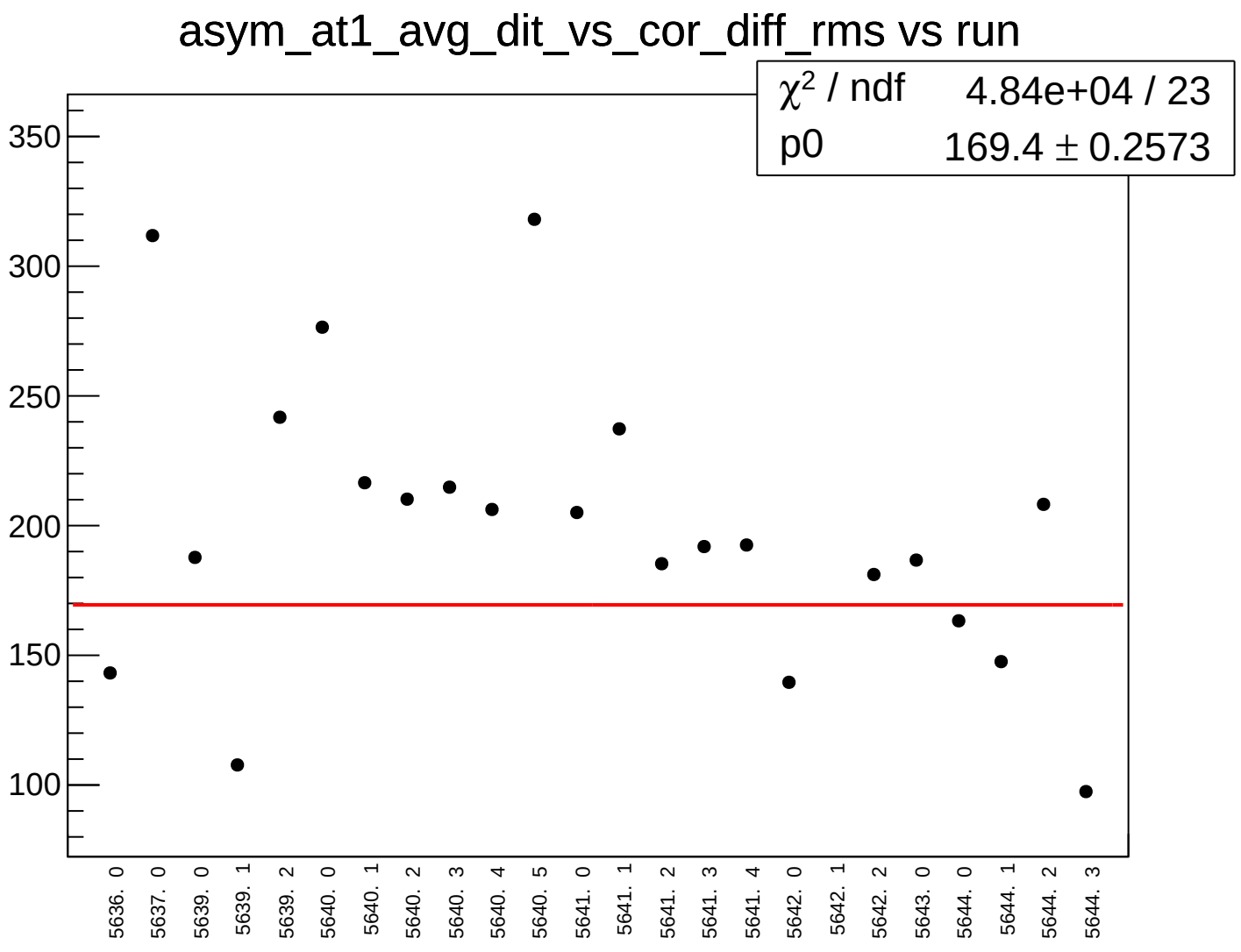

asym_at1_avg_rms vs run
χ² / ndf 1243 / 23
p0 4017 ± 5.792
4600
4400
4200
4000
3800
3600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

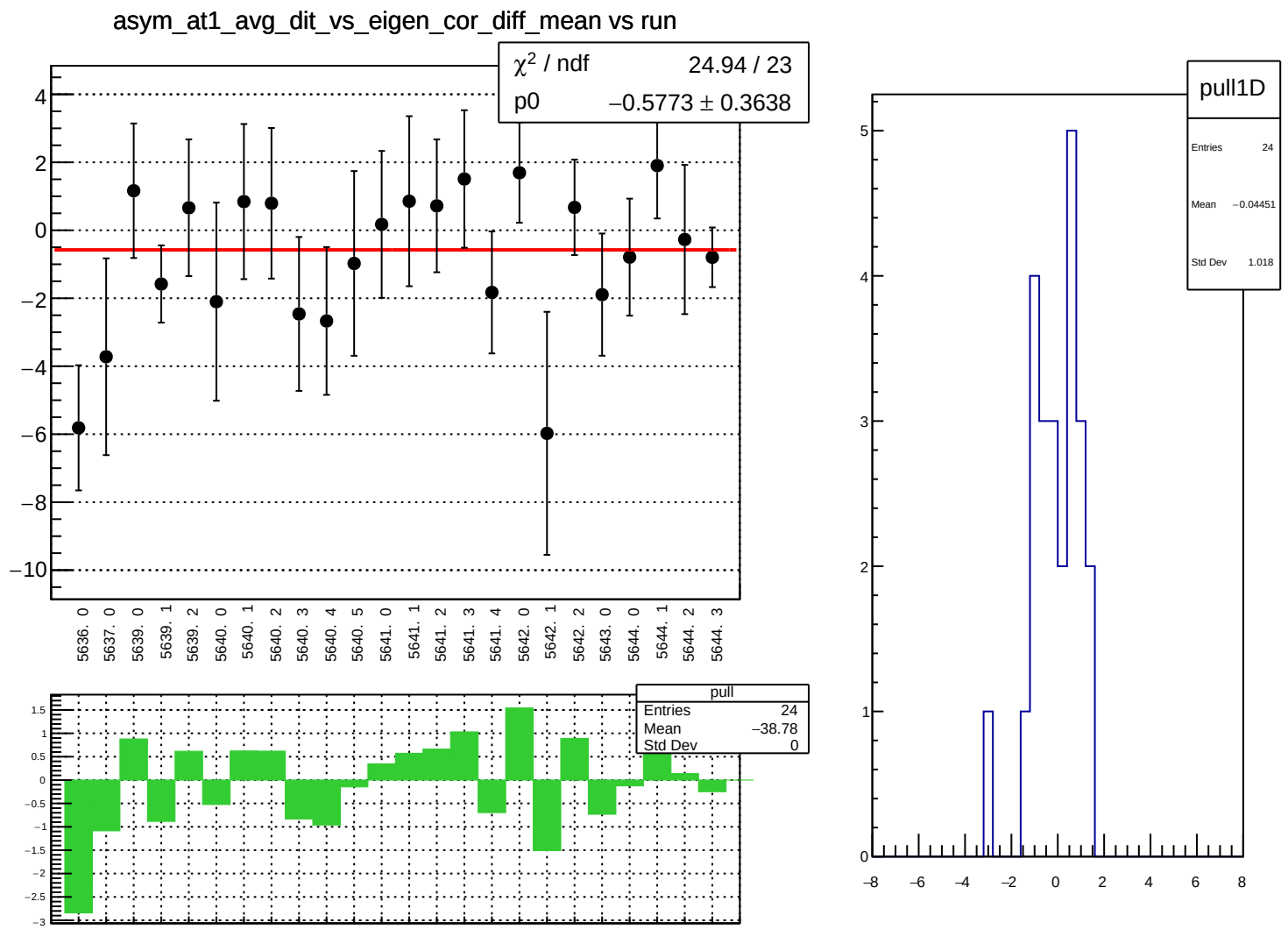

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 32.38 / 23
p0 2.176e−13 ± 2.372e−13
0.01
0.005
0
−0.005
−0.01
−0.015
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −421.1
Std Dev 0
pull1D
Entries 24
Mean 0.005999
Std Dev 1.162

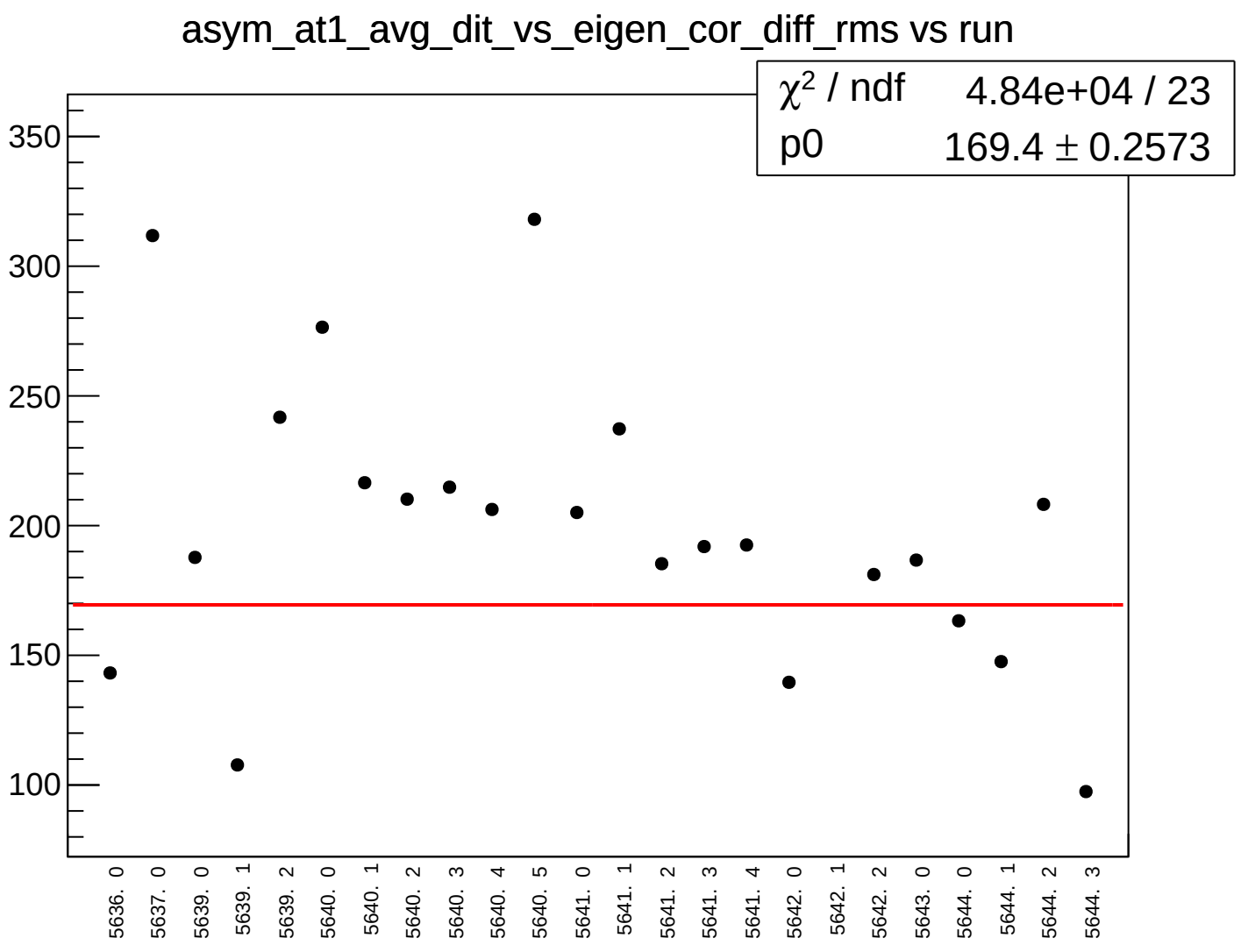

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.221e+05 / 23
p0 6.713e−11 ± 1.677e−13
1.2
1
0.8
0.6
0.4
0.2
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

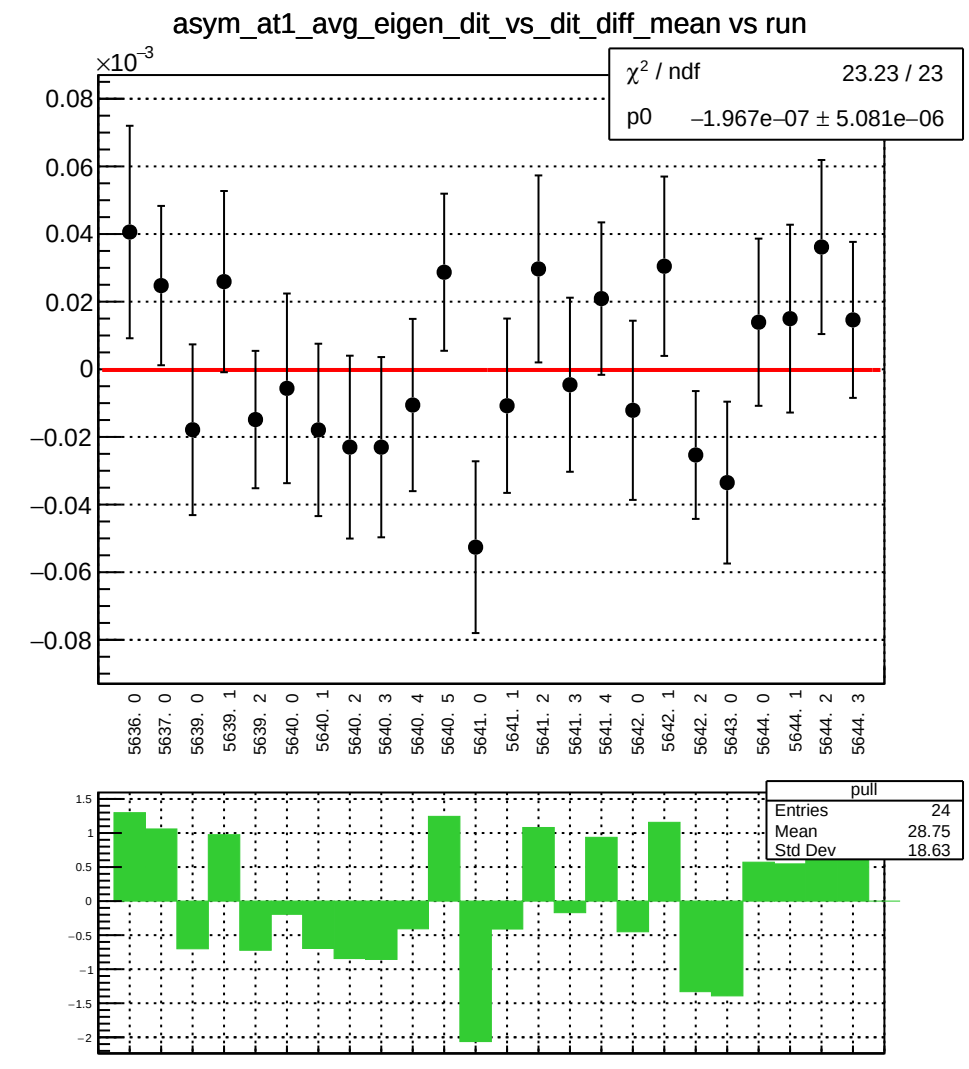

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 24.94 / 23
p0 −0.5773 ± 0.3638
4
2
0
−2
−4
−6
−8
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −38.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

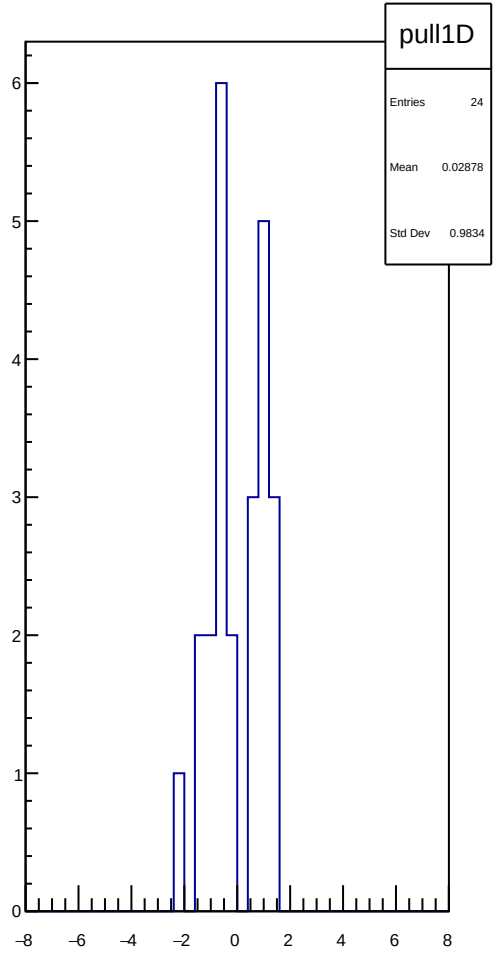

pull1D
Entries 24
Mean −0.04451
Std Dev 1.018
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

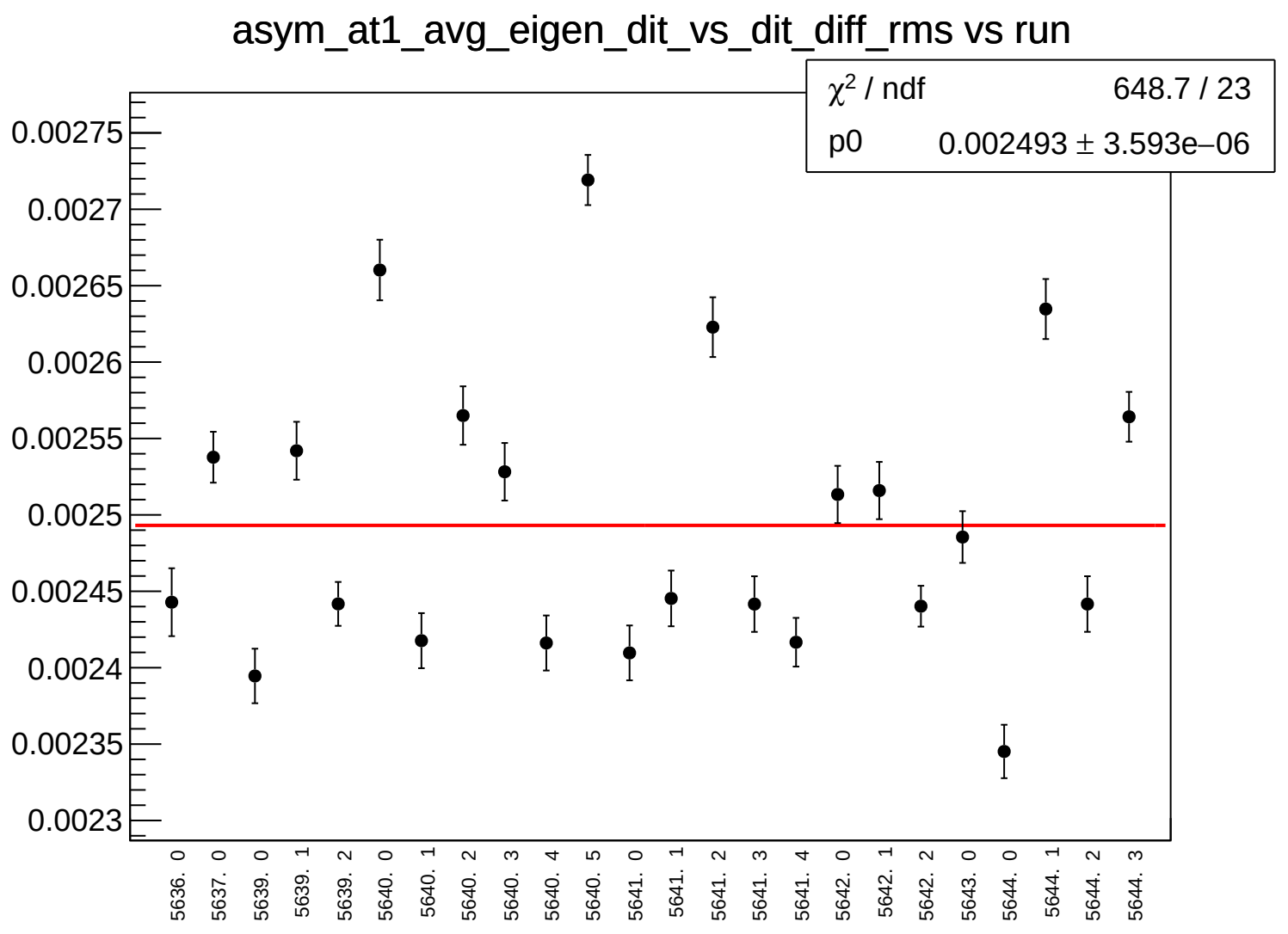

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.84e+04 / 23
p0 169.4 ± 0.2573
350
300
250
200
150
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

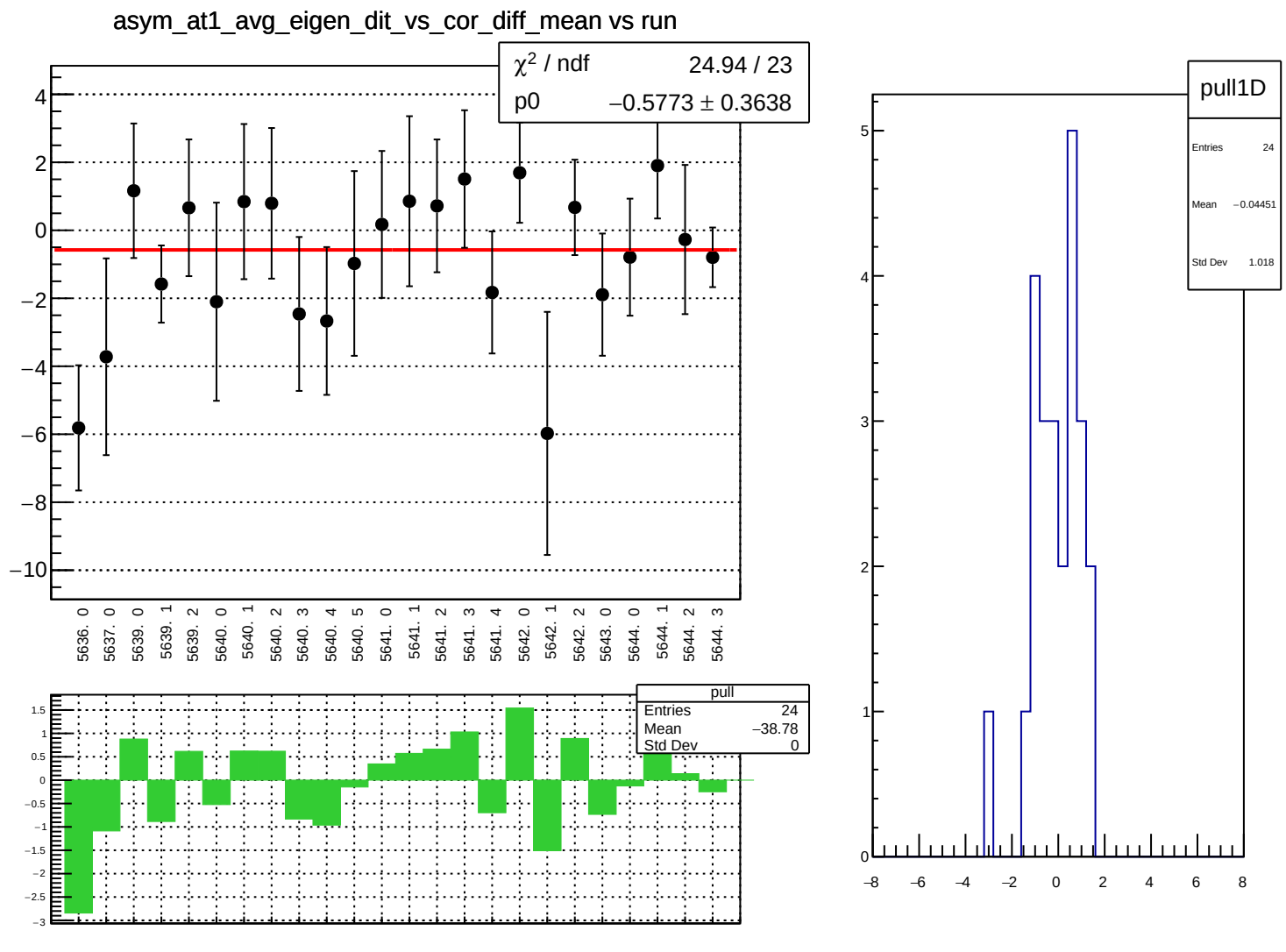

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.94 / 23
p0 −0.5773 ± 0.3638
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −38.78
Std Dev 0
pull1D
Entries 24
Mean −0.04451
Std Dev 1.018

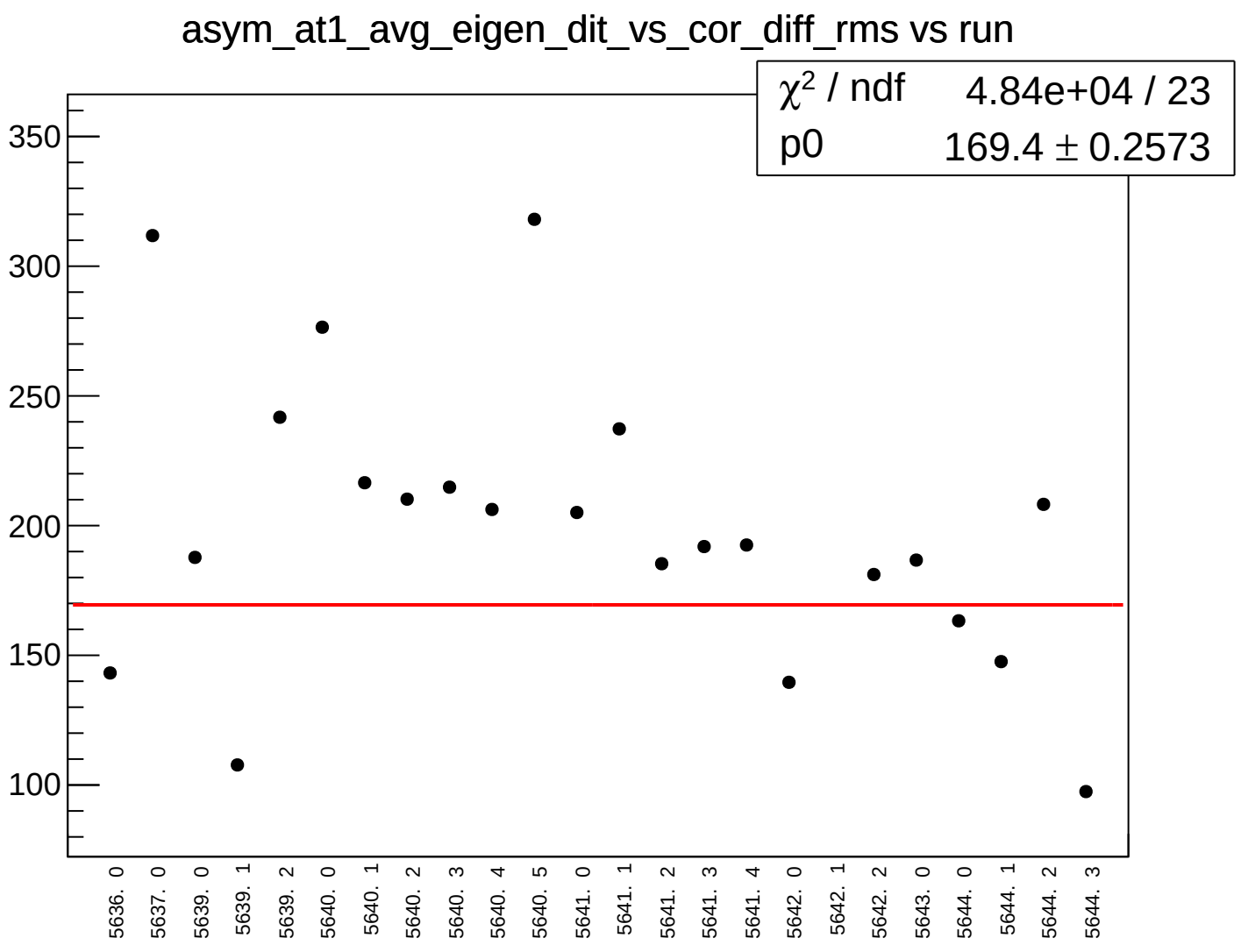

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.84e+04 / 23
p0 169.4 ± 0.2573
350
300
250
200
150
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 23.23 / 23
p0 −1.967e−07 ± 5.081e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 28.75
Std Dev 18.63
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean 0.02878
Std Dev 0.9834
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 648.7 / 23
p0 0.002493 ± 3.593e−06
0.00275
0.0027
0.00265
0.0026
0.00255
0.0025
0.00245
0.0024
0.00235
0.0023
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 24.94 / 23
p0 −0.5773 ± 0.3638
4
2
0
−2
−4
−6
−8
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −38.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 24
Mean −0.04451
Std Dev 1.018
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.84e+04 / 23
p0 169.4 ± 0.2573
350
300
250
200
150
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5642. 1
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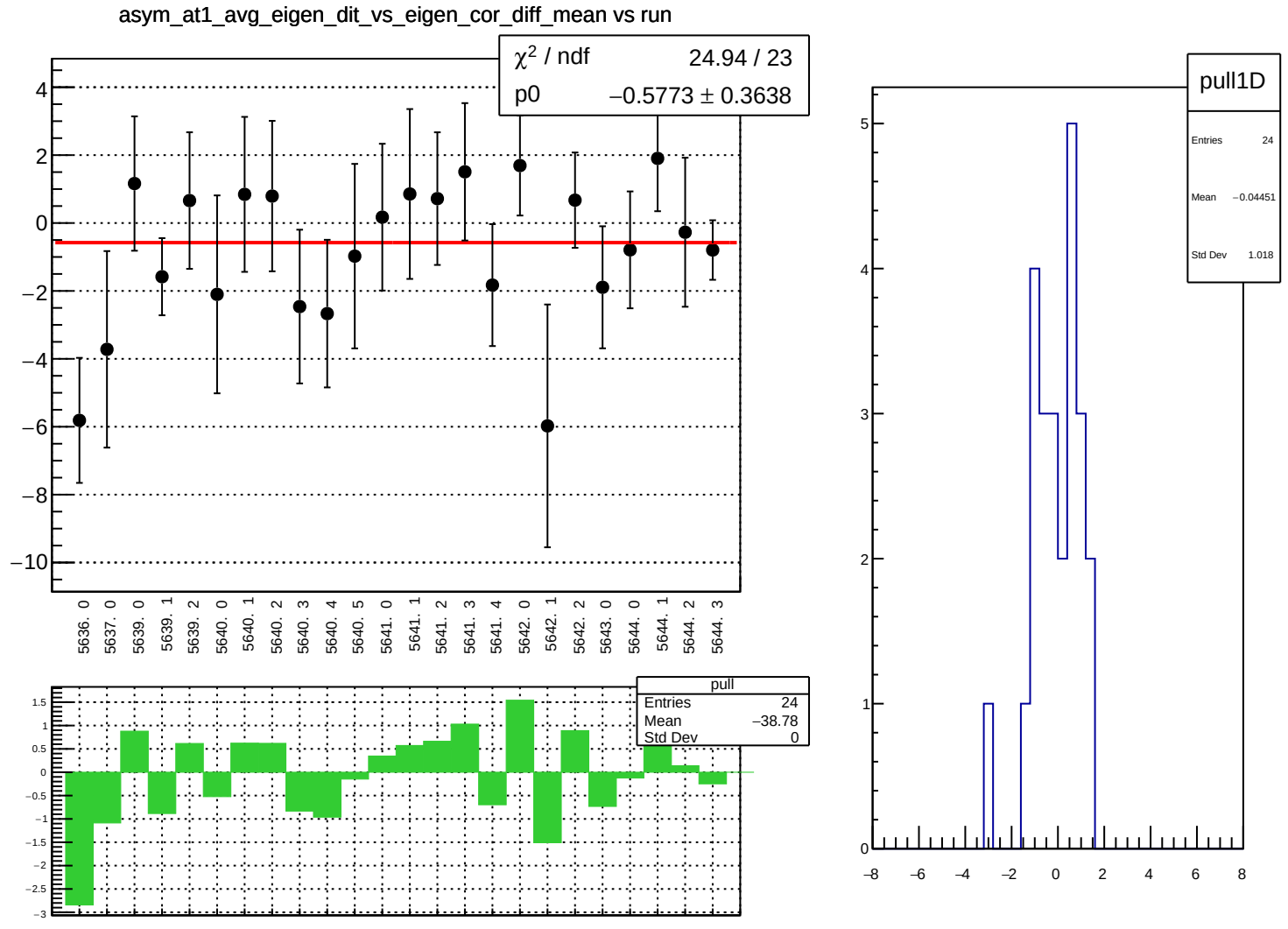
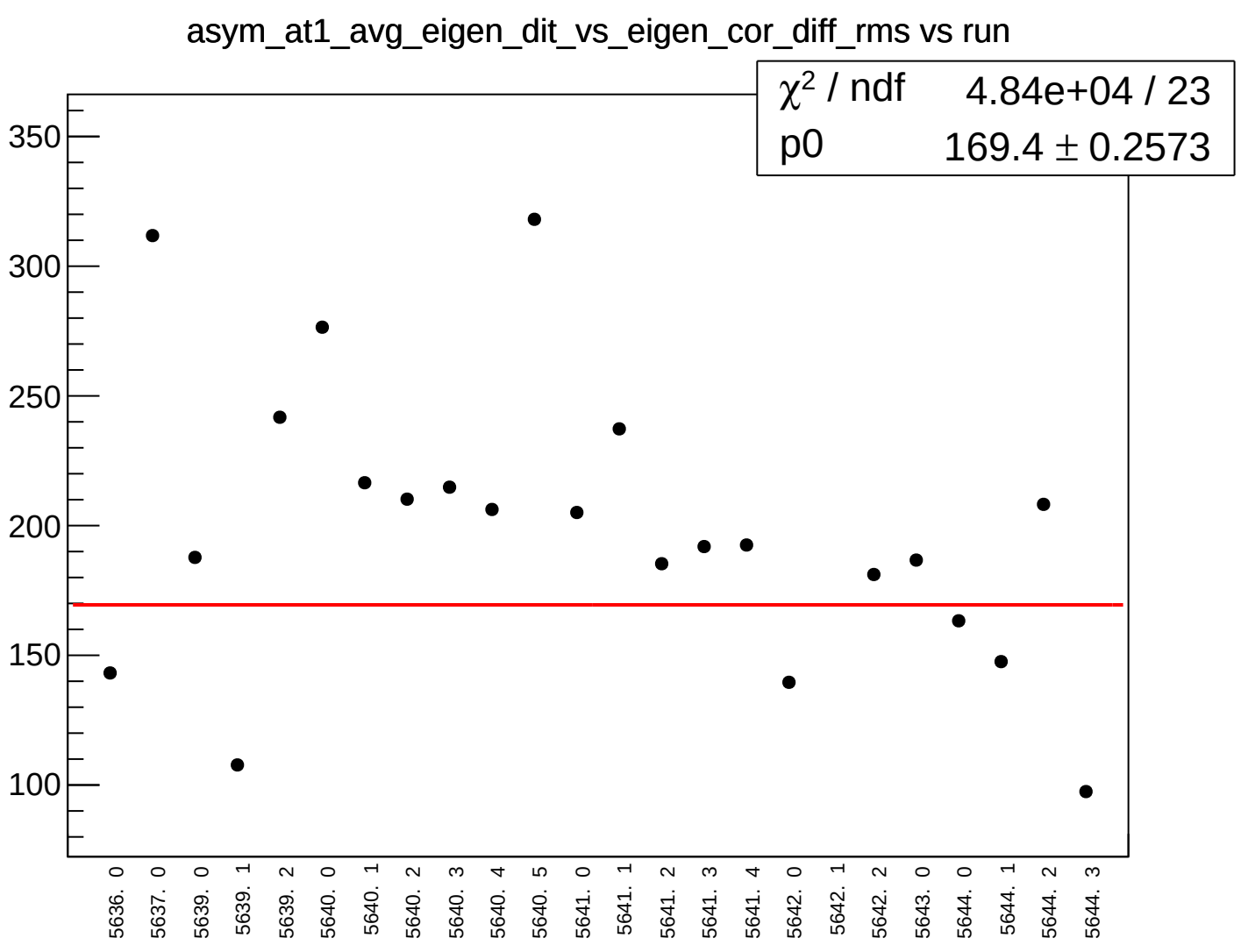
5644. 2
5644. 3


asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.94 / 23
p0 −0.5773 ± 0.3638
4
2
0
−2
−4
−6
−8
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −38.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 24
Mean −0.04451
Std Dev 1.018
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.84e+04 / 23
p0 169.4 ± 0.2573
350
300
250
200
150
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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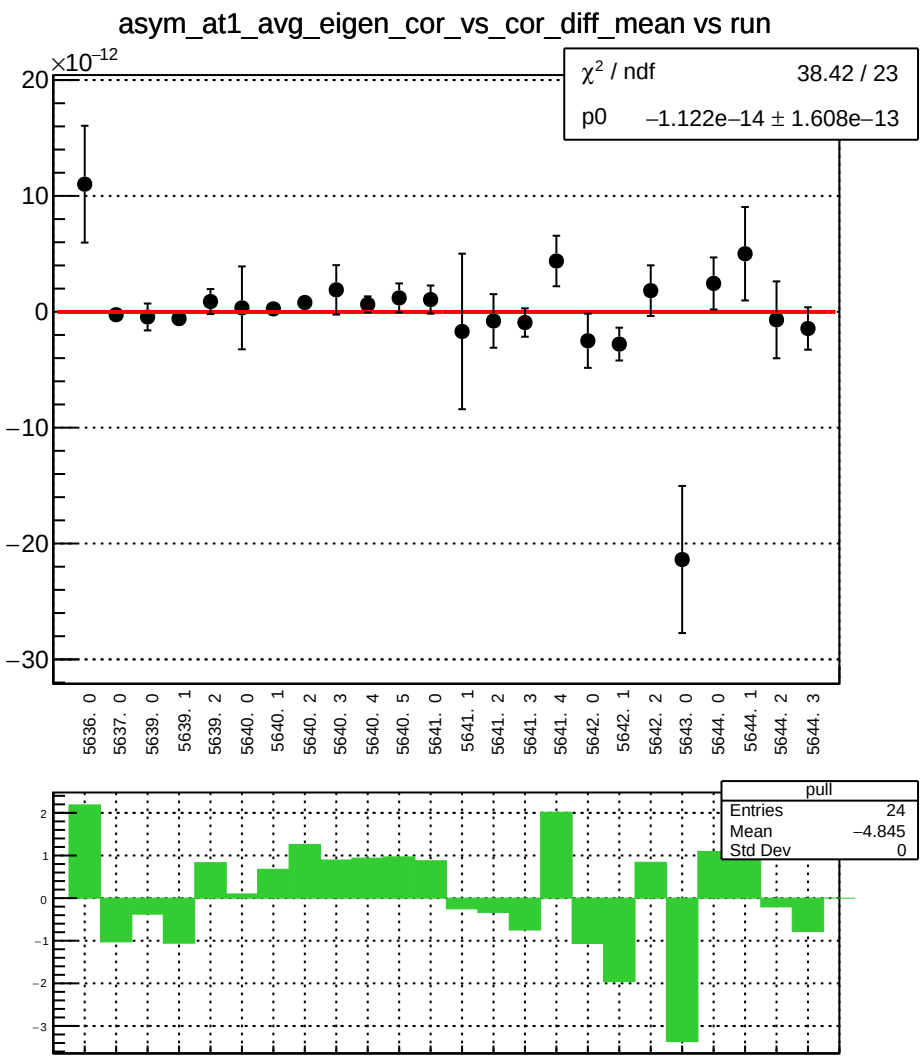
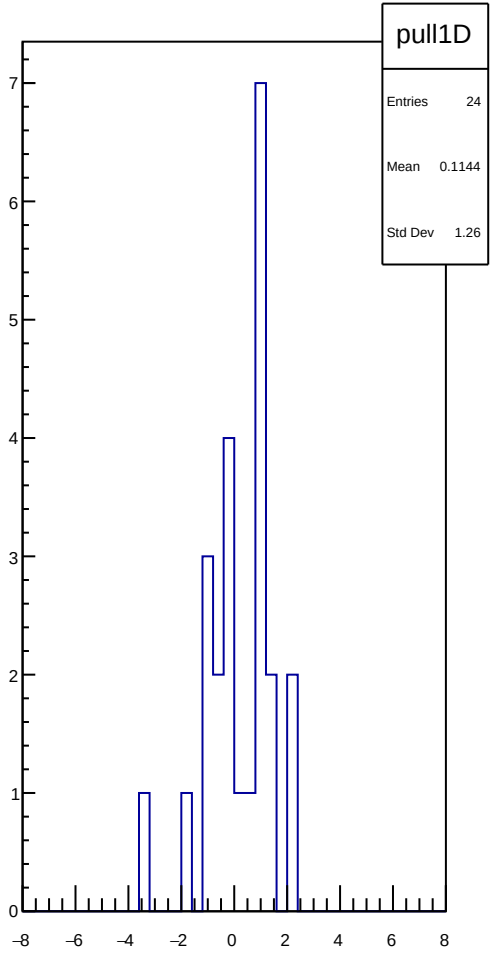
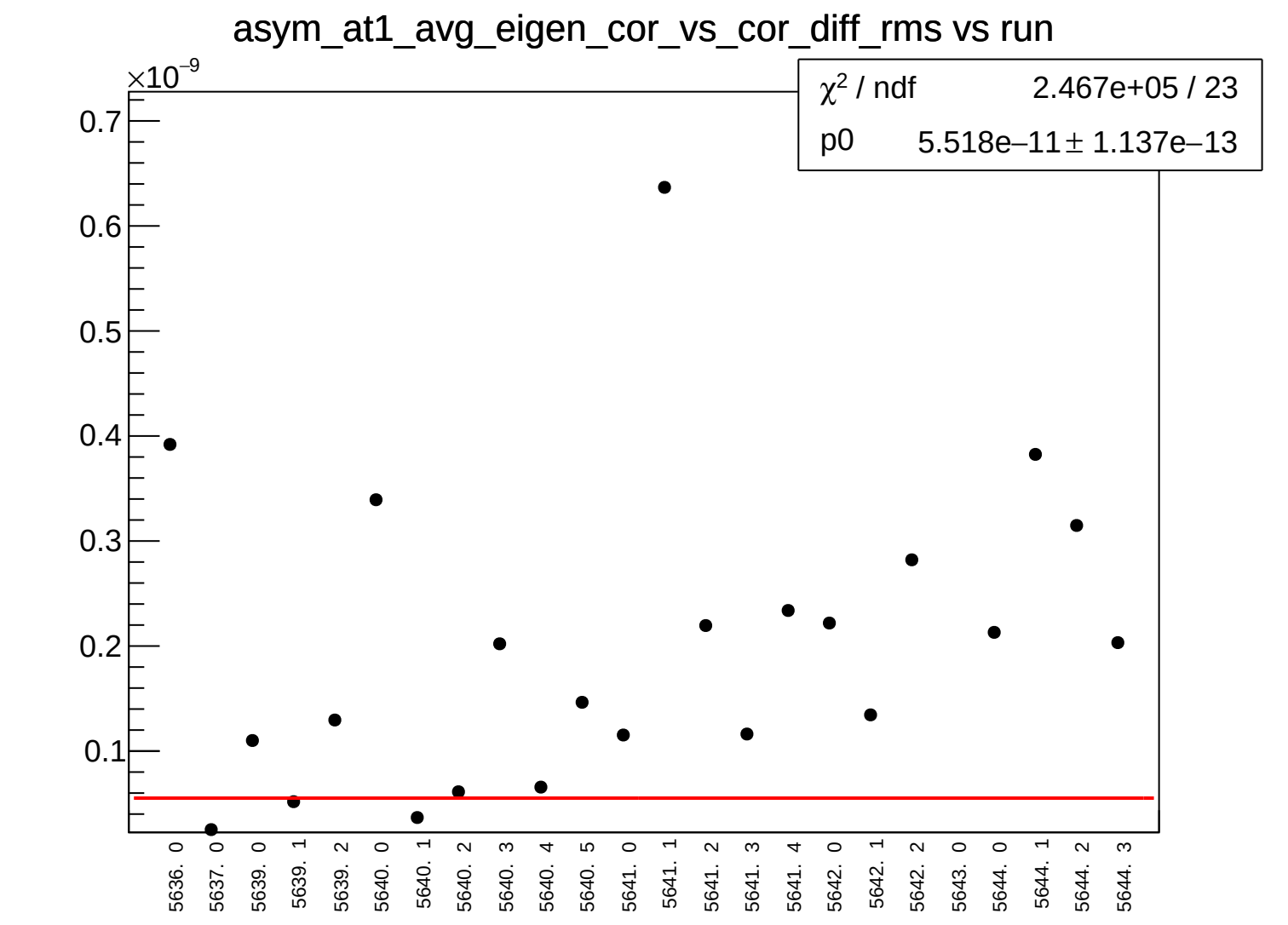
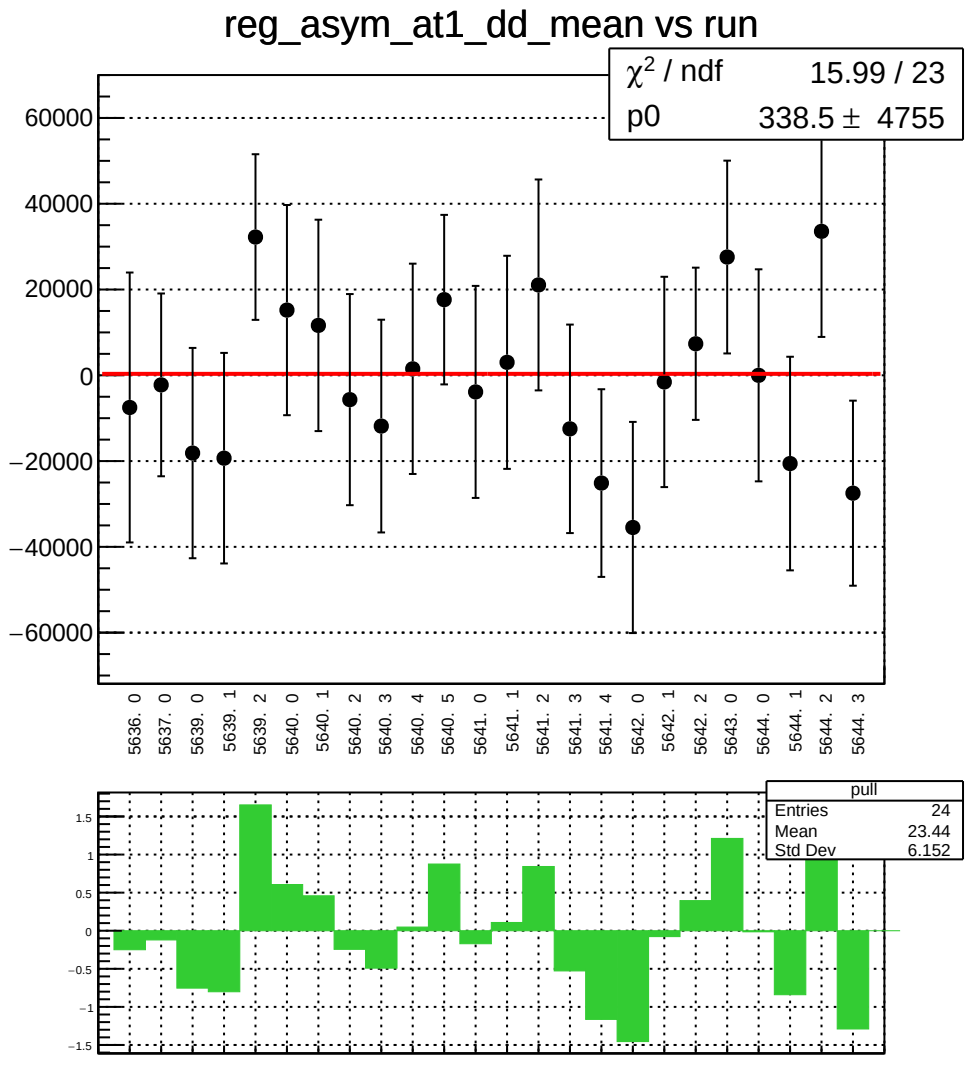
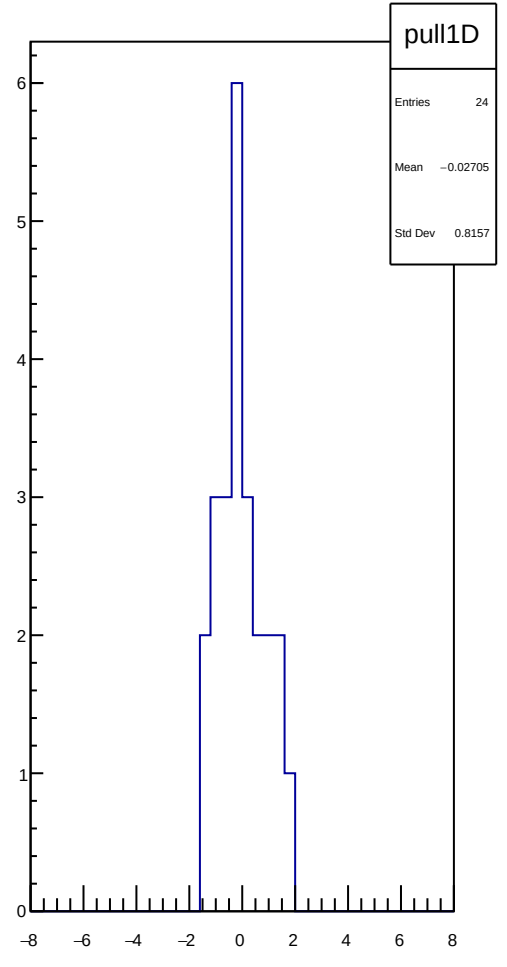
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

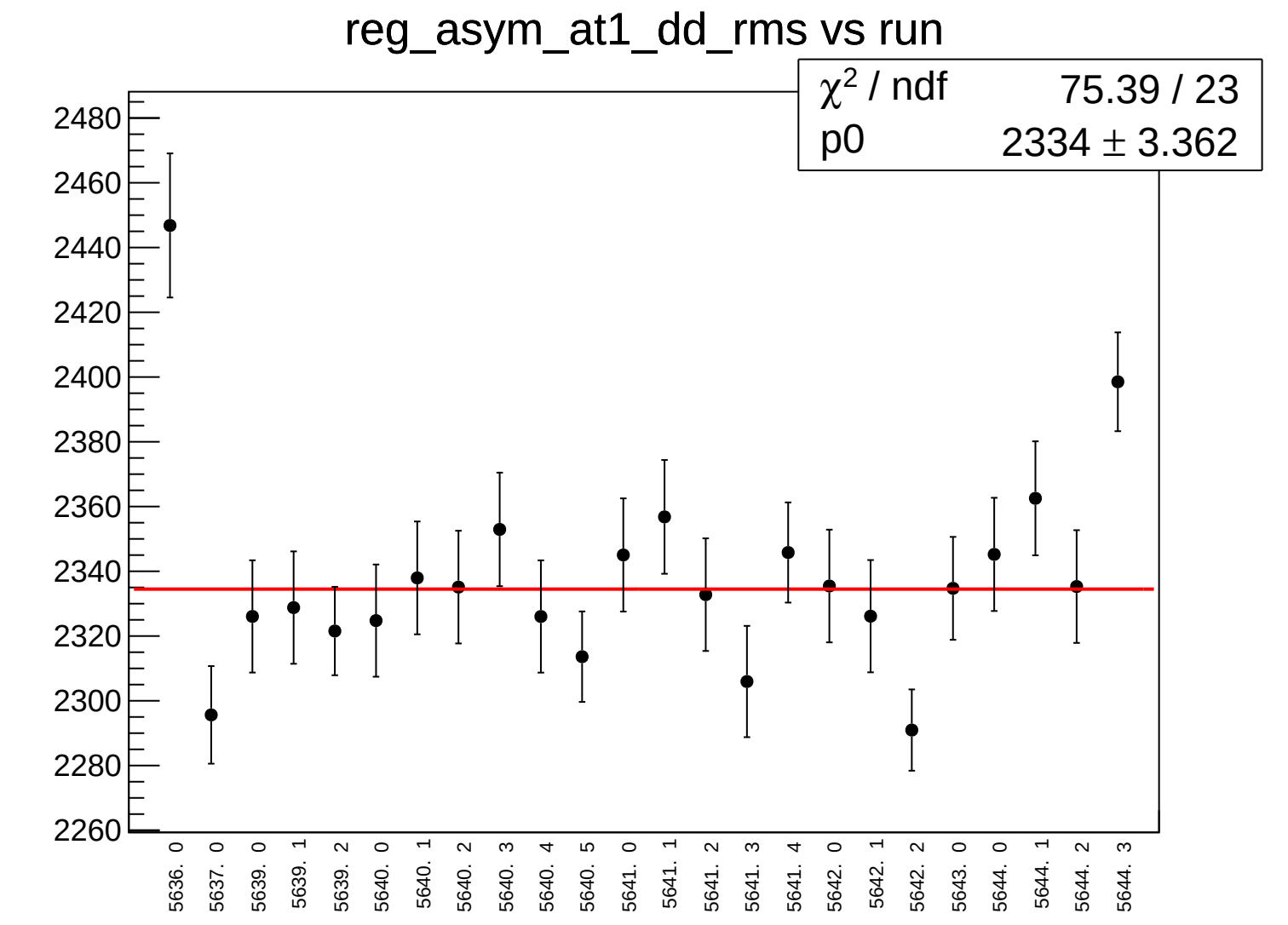

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 38.42 / 23
p0 −1.122e−14 ± 1.608e−13
20
10
0
−10
−20
−30
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −4.845
Std Dev 0
2
1
0
−1
−2
−3

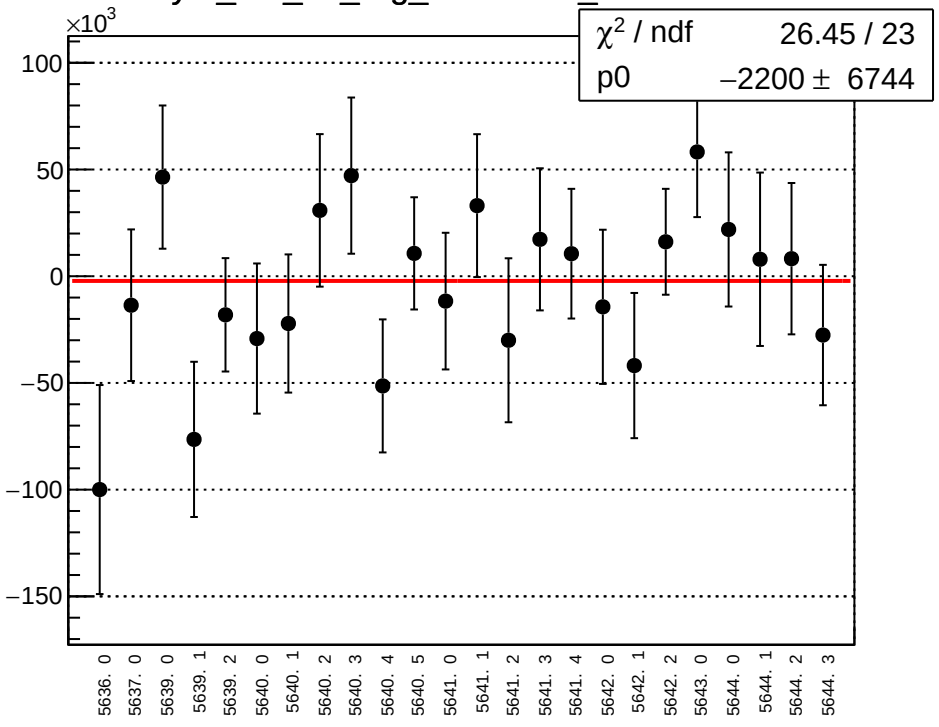

pull1D
Entries 24
Mean 0.1144
Std Dev 1.26
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

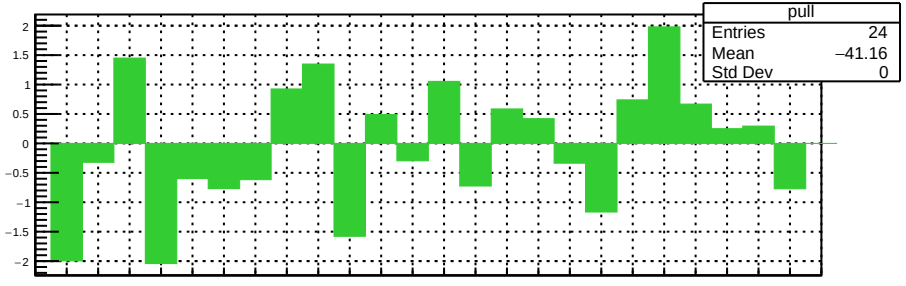

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.467e+05 / 23
p0 5.518e−11 ± 1.137e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

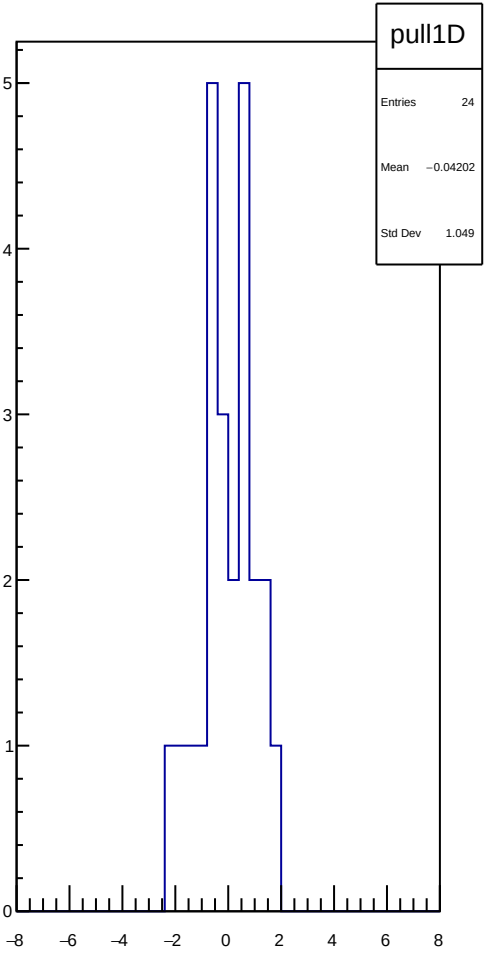

reg_asym_at1_dd_mean vs run
χ² / ndf 15.99 / 23
p0 338.5 ± 4755
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 23.44
Std Dev 6.152
1.5
1
0.5
0
−0.5
−1
−1.5

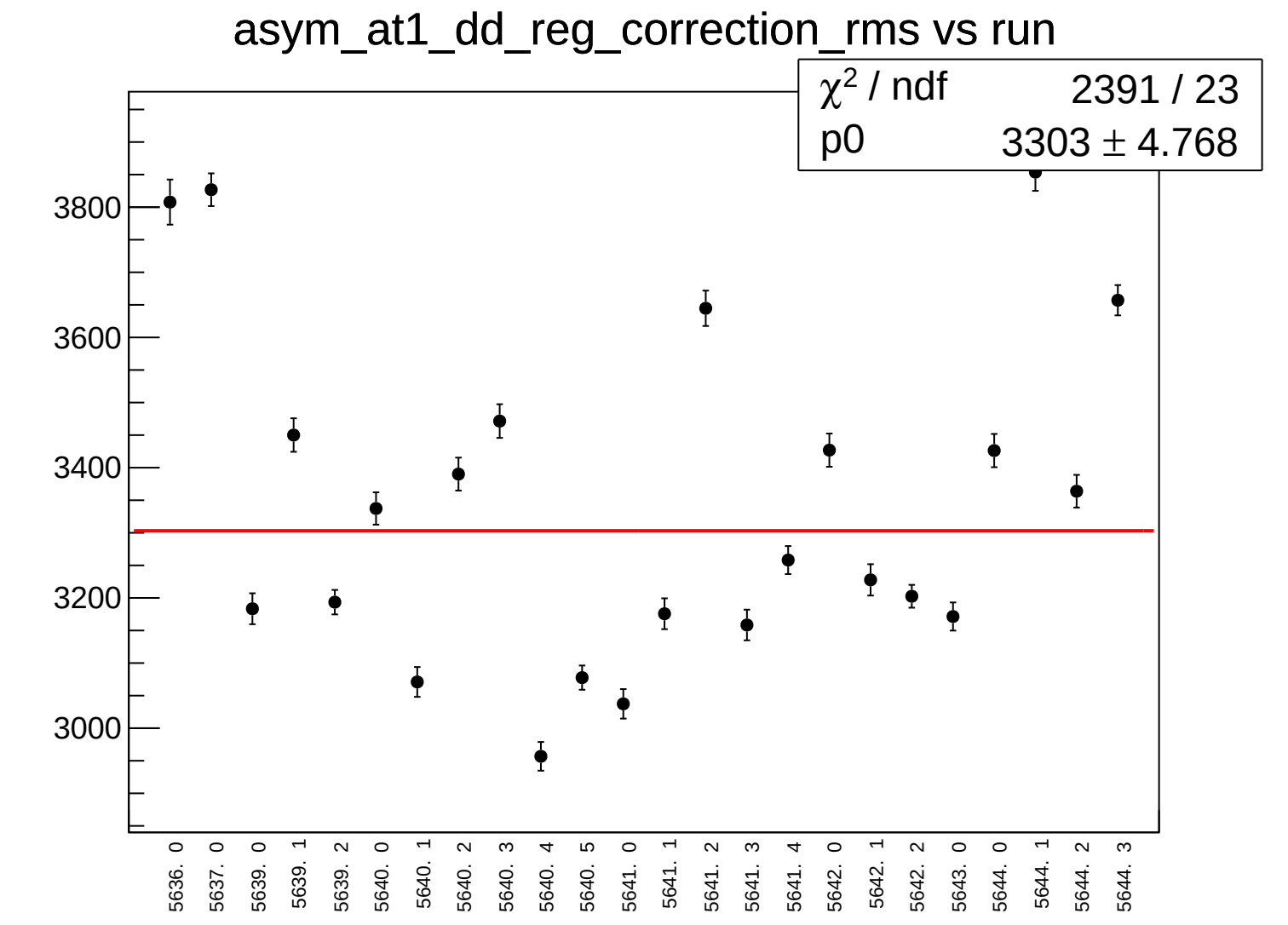

pull1D
Entries 24
Mean −0.02705
Std Dev 0.8157
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

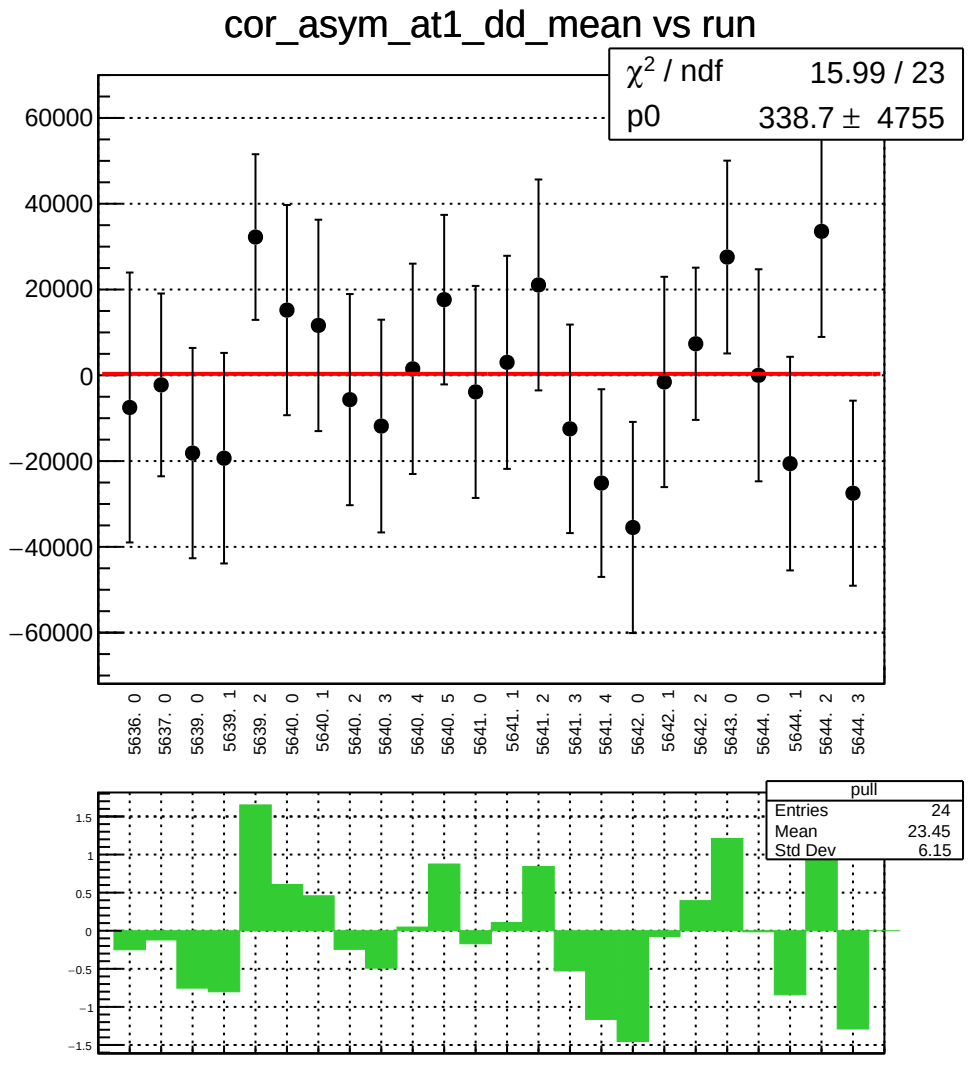

reg_asym_at1_dd_rms vs run
χ² / ndf 75.39 / 23
p0 2334 ± 3.362
2480
2460
2440
2420
2400
2380
2360
2340
2320
2300
2280
2260
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

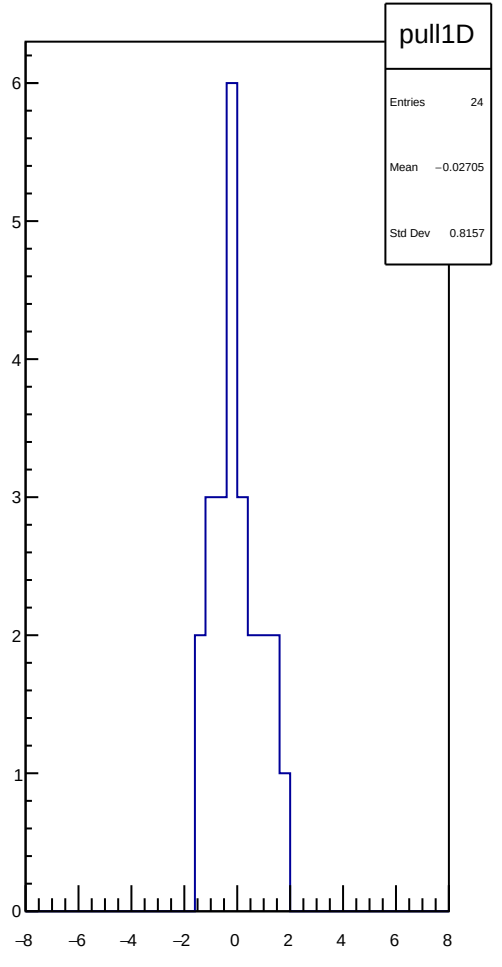

asym_at1_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 26.45 / 23
p0 −2200 ± 6744
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

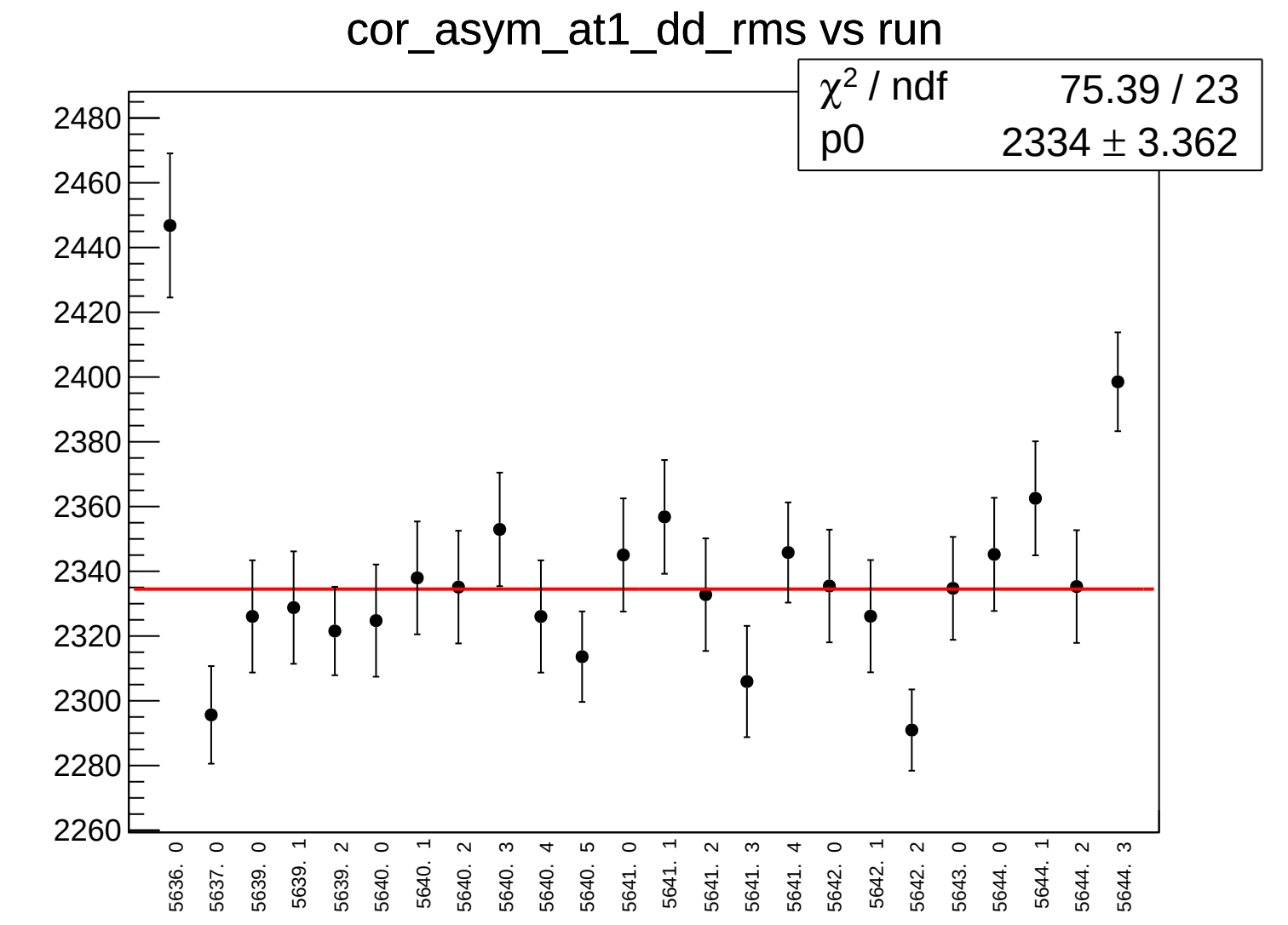

pull
Entries 24
Mean −41.16
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

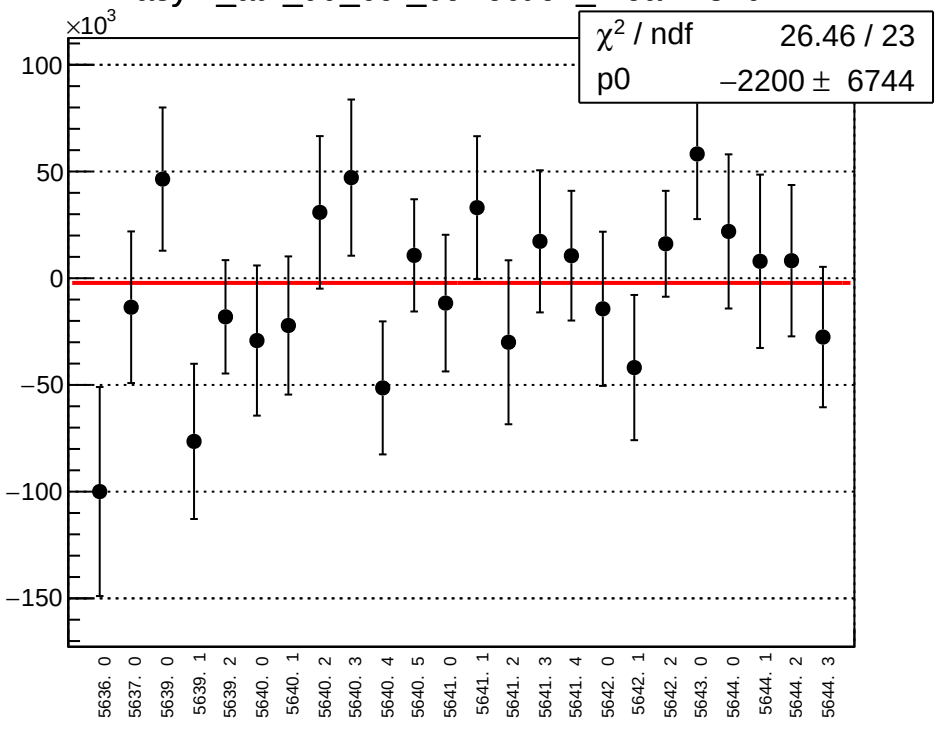

pull1D
Entries 24
Mean −0.04202
Std Dev 1.049
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

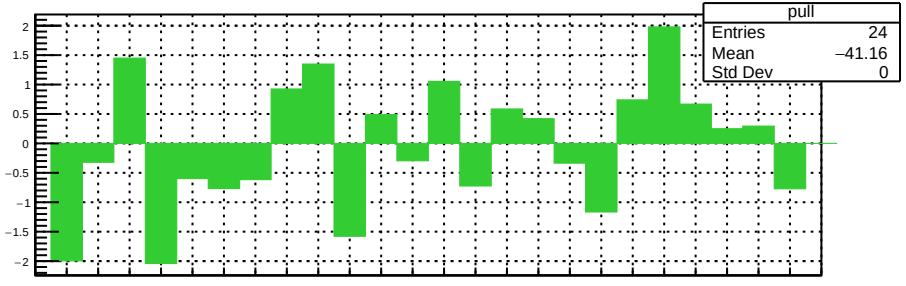

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 2391 / 23
p0 3303 ± 4.768
3800
3600
3400
3200
3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

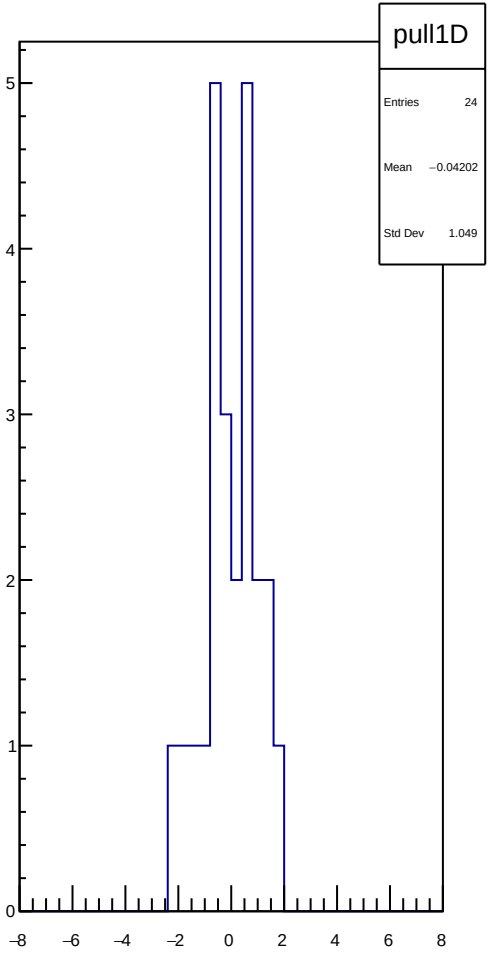

cor_asym_at1_dd_mean vs run
χ² / ndf 15.99 / 23
p0 338.7 ± 4755
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 23.45
Std Dev 6.15
1.5
1
0.5
0
−0.5
−1
−1.5

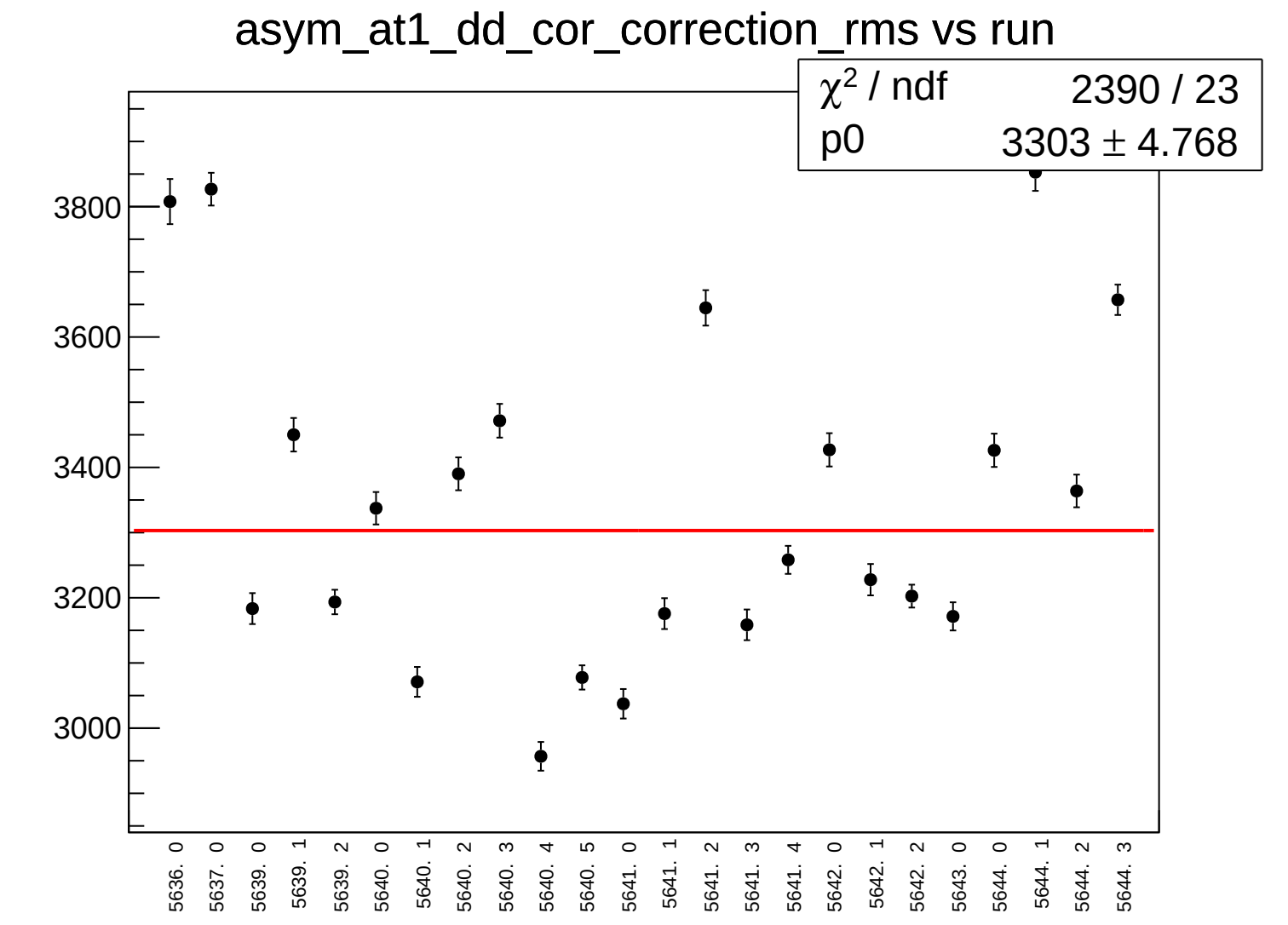

pull1D
Entries 24
Mean −0.02705
Std Dev 0.8157
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

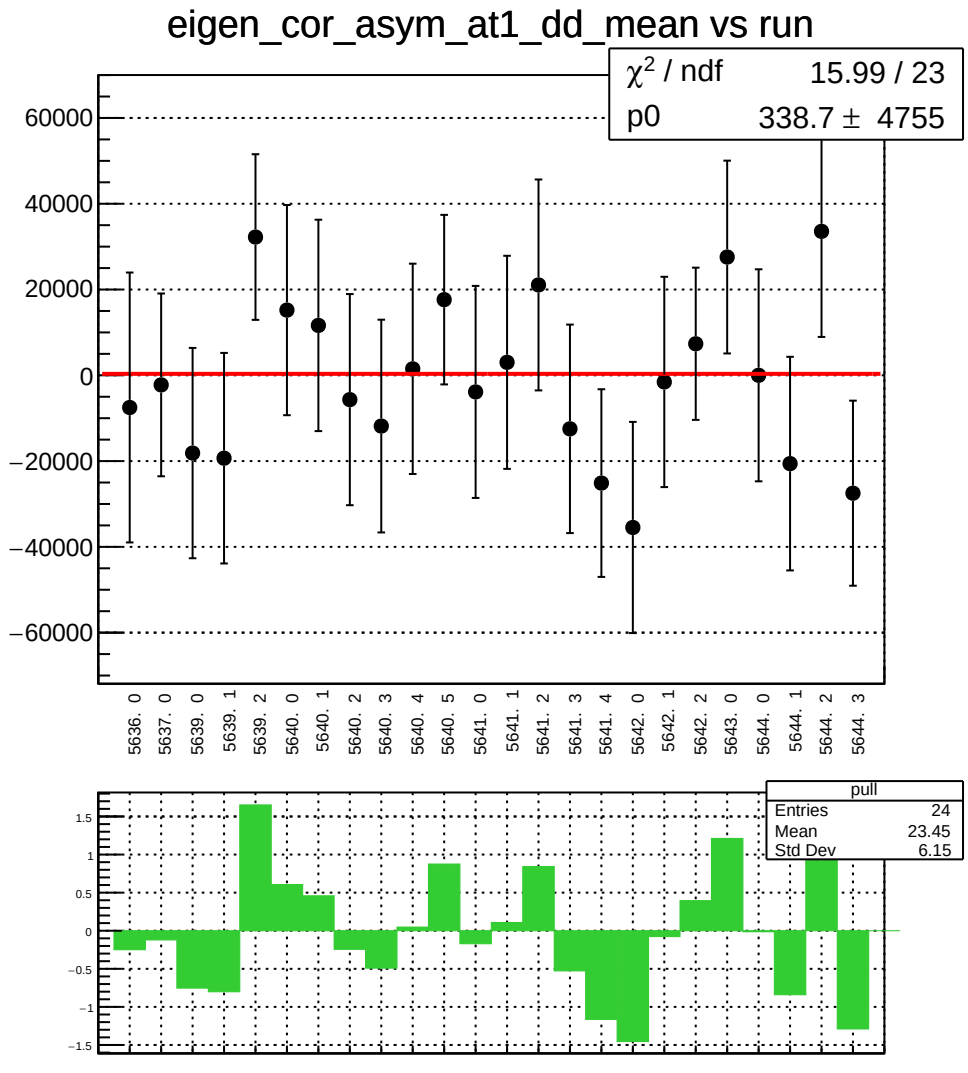

cor_asym_at1_dd_rms vs run
χ² / ndf 75.39 / 23
p0 2334 ± 3.362
2480
2460
2440
2420
2400
2380
2360
2340
2320
2300
2280
2260
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

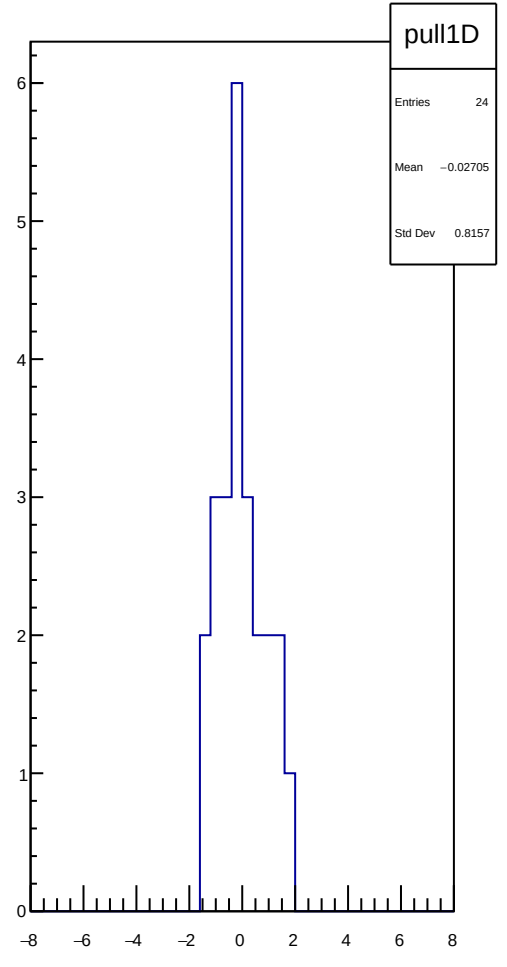

asym_at1_dd_cor_correction_mean vs run
×10^3
χ² / ndf 26.46 / 23
p0 −2200 ± 6744
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

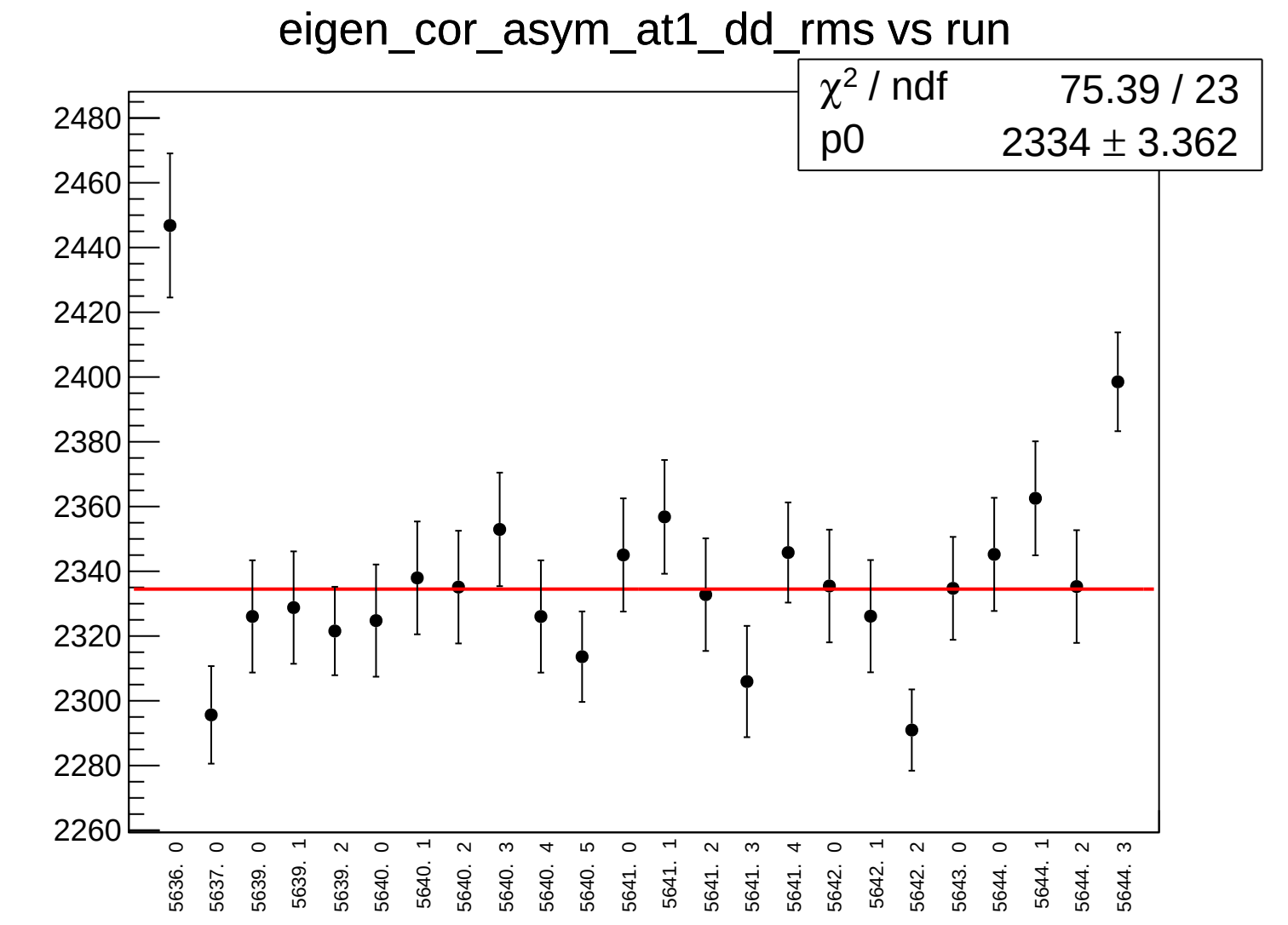

pull
Entries 24
Mean −41.16
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

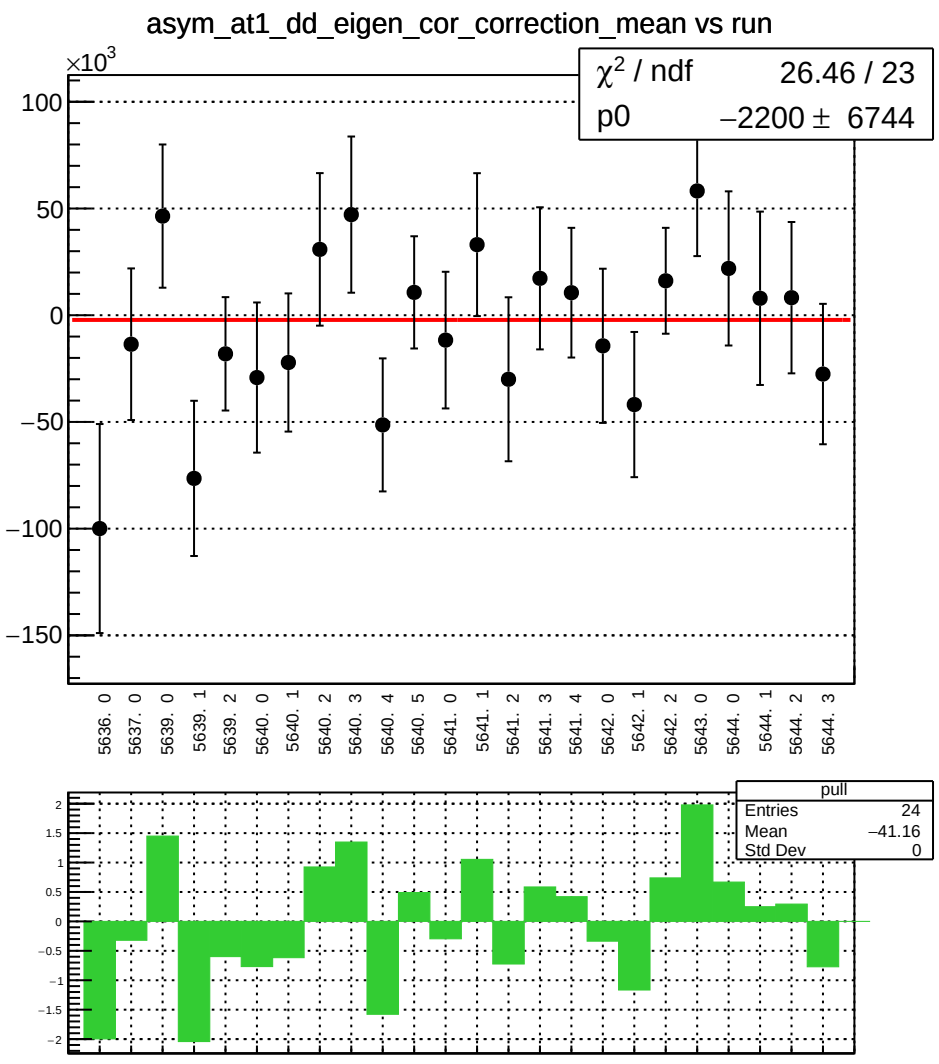

pull1D
Entries 24
Mean −0.04202
Std Dev 1.049
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

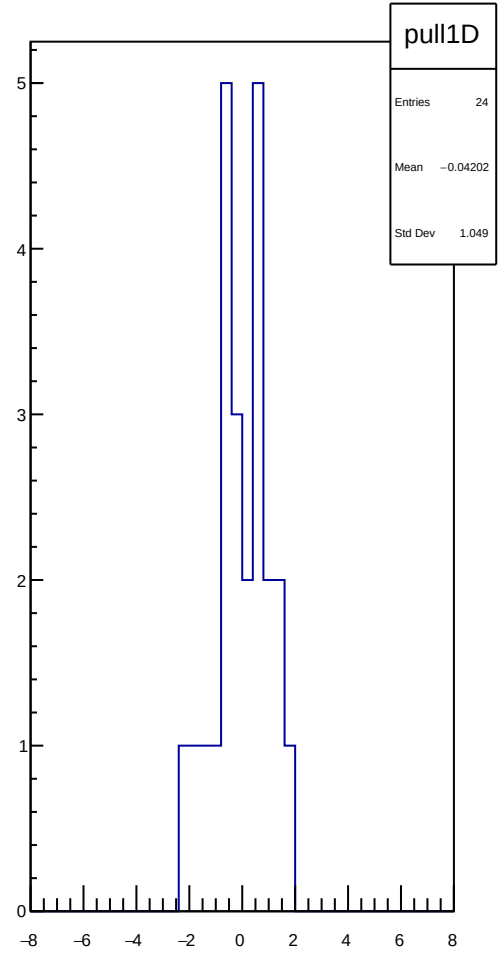

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 2390 / 23
p0 3303 ± 4.768
3800
3600
3400
3200
3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

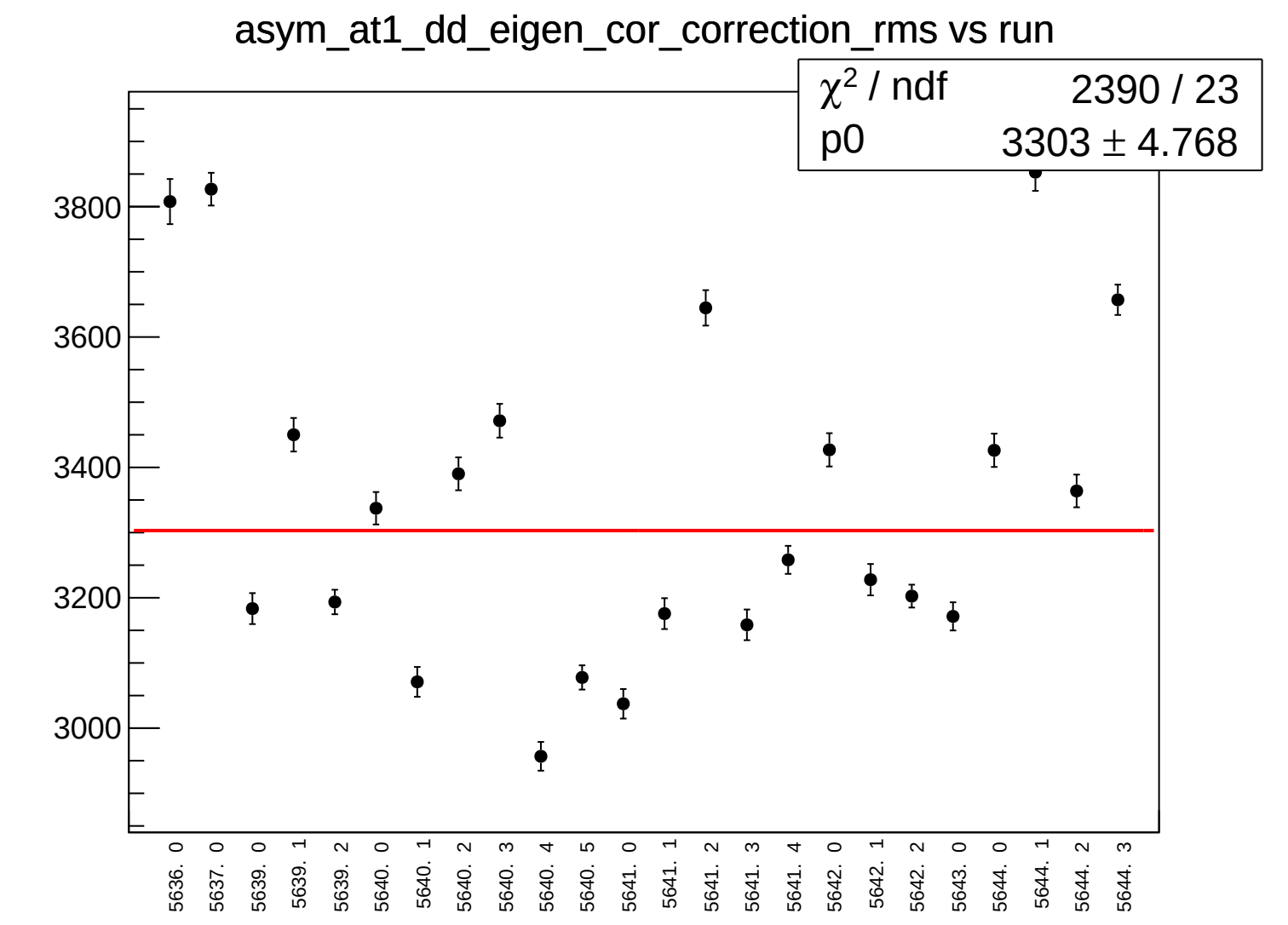

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 15.99 / 23
p0 338.7 ± 4755
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 23.45
Std Dev 6.15
1.5
1
0.5
0
−0.5
−1
−1.5

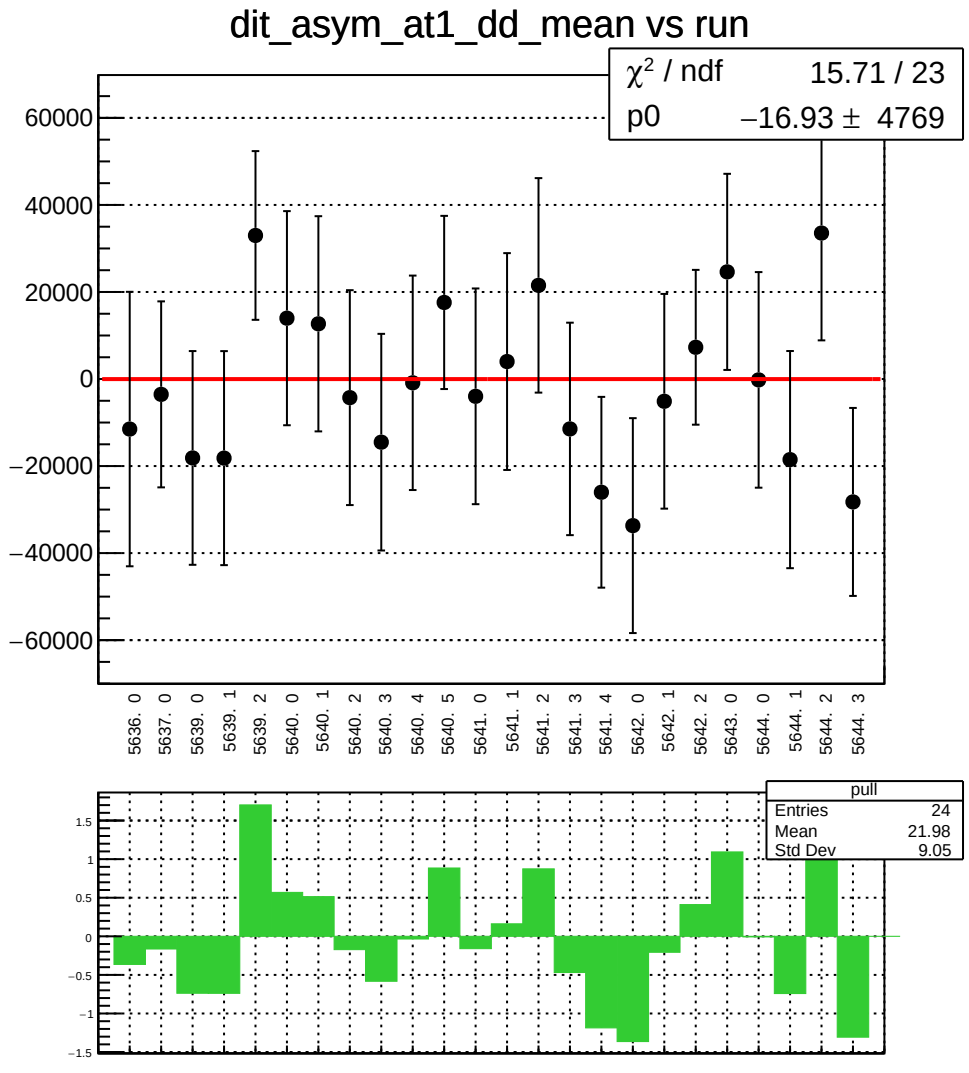

pull1D
Entries 24
Mean −0.02705
Std Dev 0.8157
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

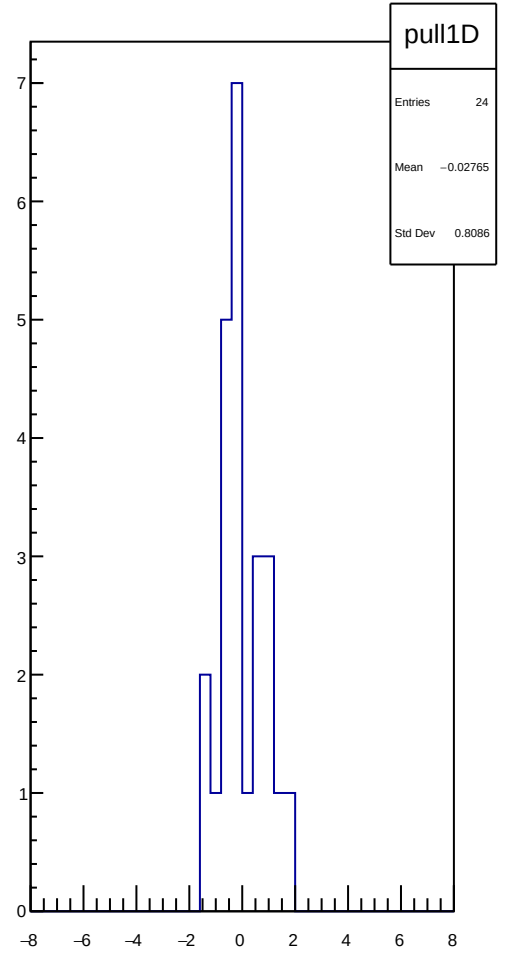

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 75.39 / 23
p0 2334 ± 3.362
2480
2460
2440
2420
2400
2380
2360
2340
2320
2300
2280
2260
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

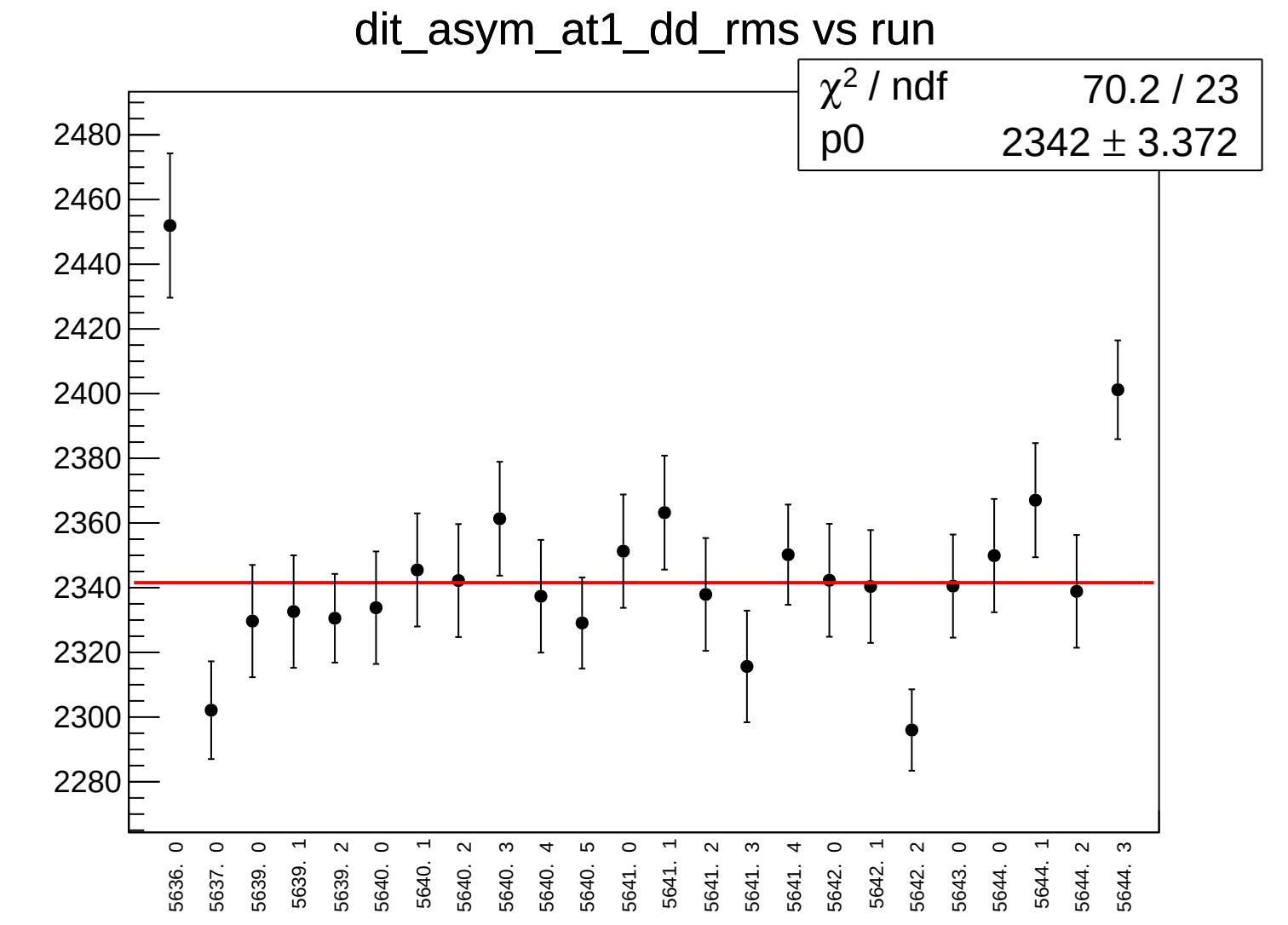

asym_at1_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 26.46 / 23
p0 −2200 ± 6744
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −41.16
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

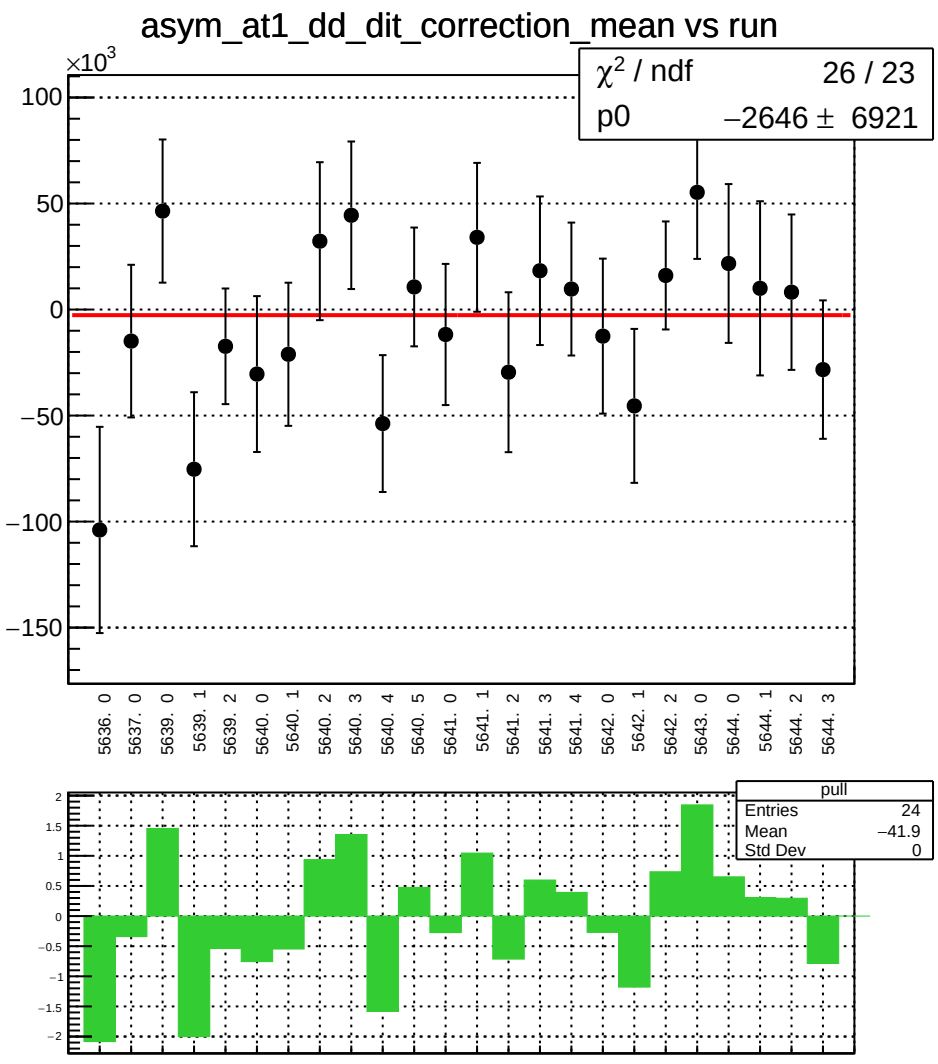

pull1D
Entries 24
Mean −0.04202
Std Dev 1.049
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

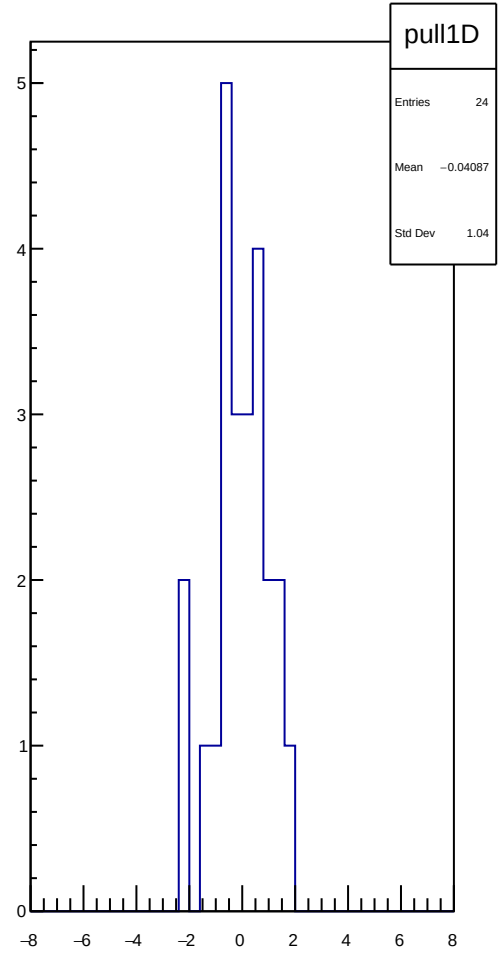

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 2390 / 23
p0 3303 ± 4.768
3800
3600
3400
3200
3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

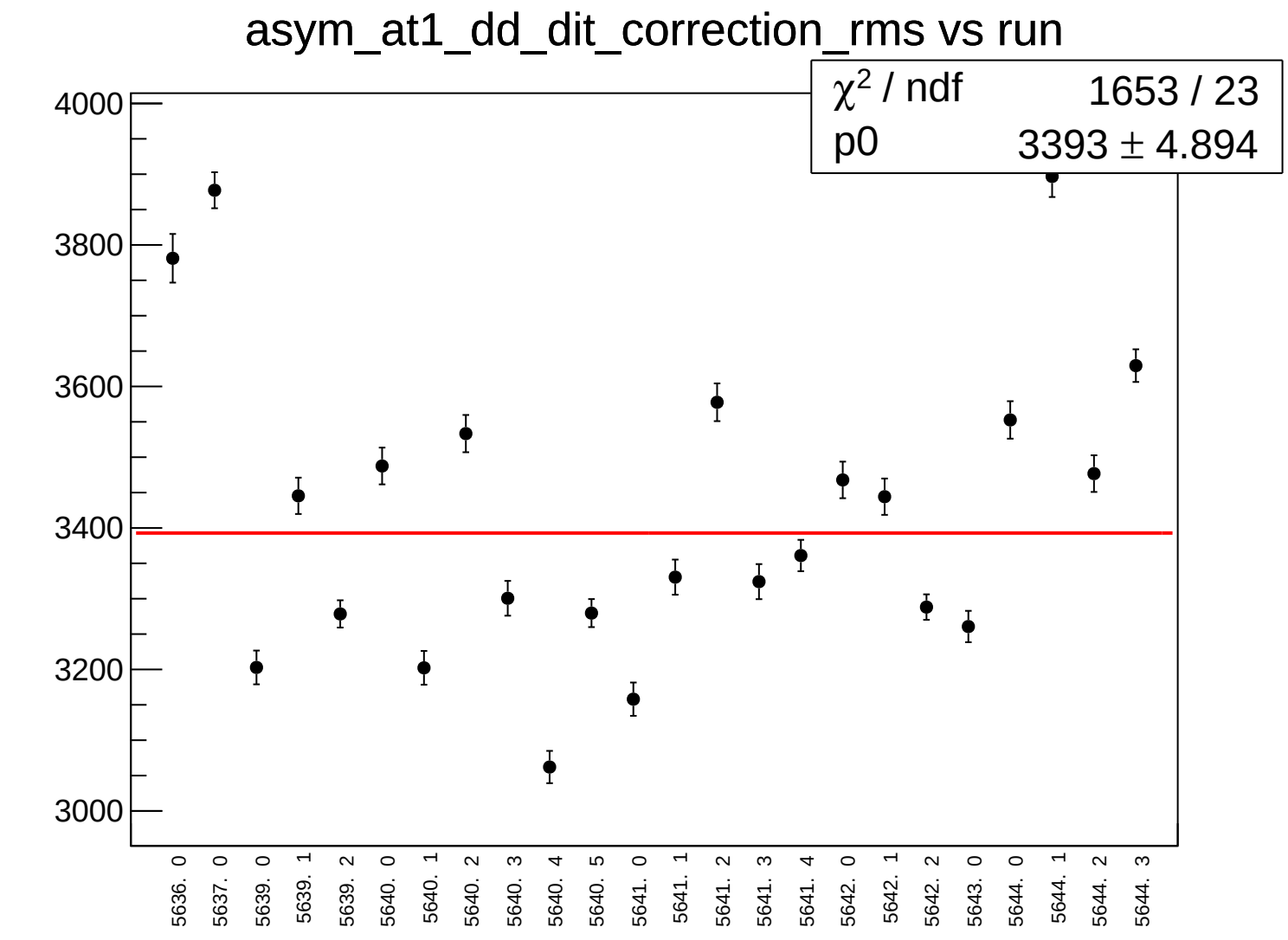

dit_asym_at1_dd_mean vs run
χ² / ndf 15.71 / 23
p0 −16.93 ± 4769
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 21.98
Std Dev 9.05
1.5
1
0.5
0
−0.5
−1
−1.5

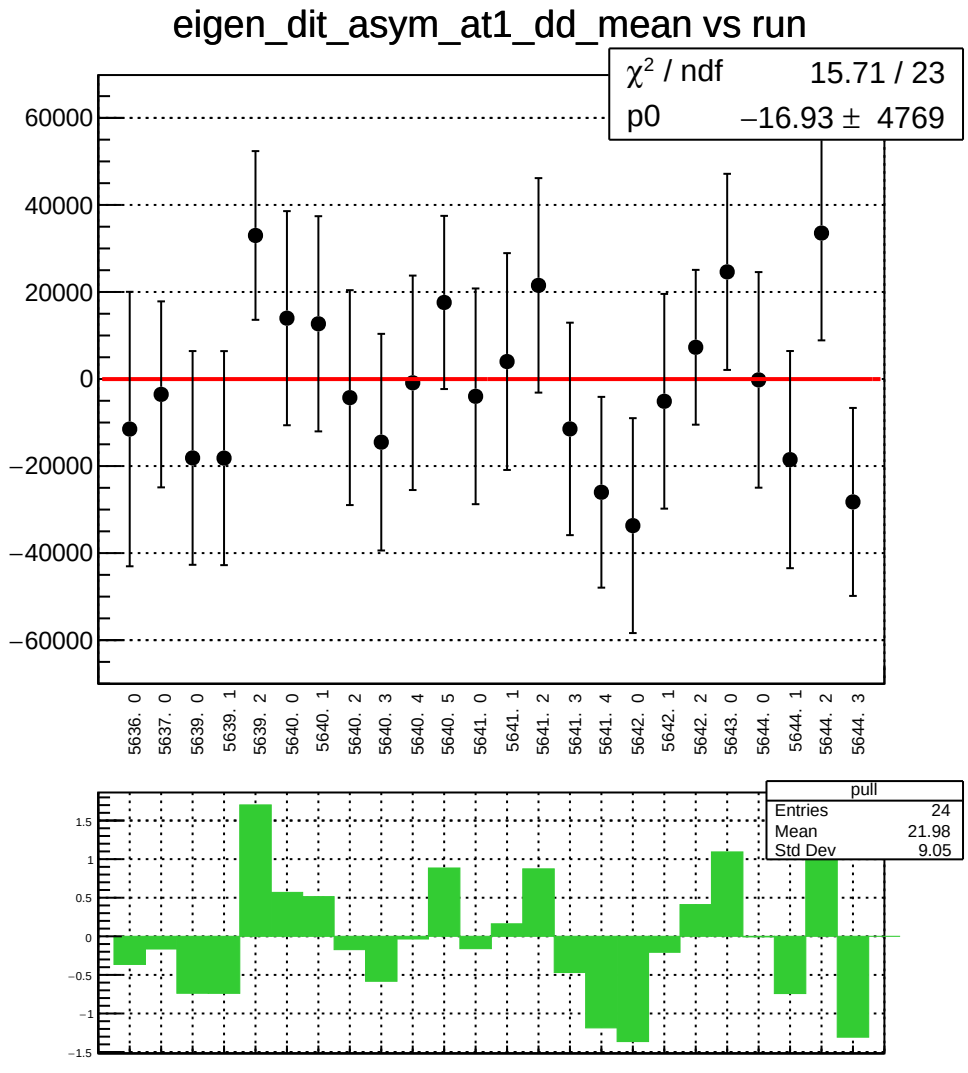

pull1D
Entries 24
Mean −0.02765
Std Dev 0.8086
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

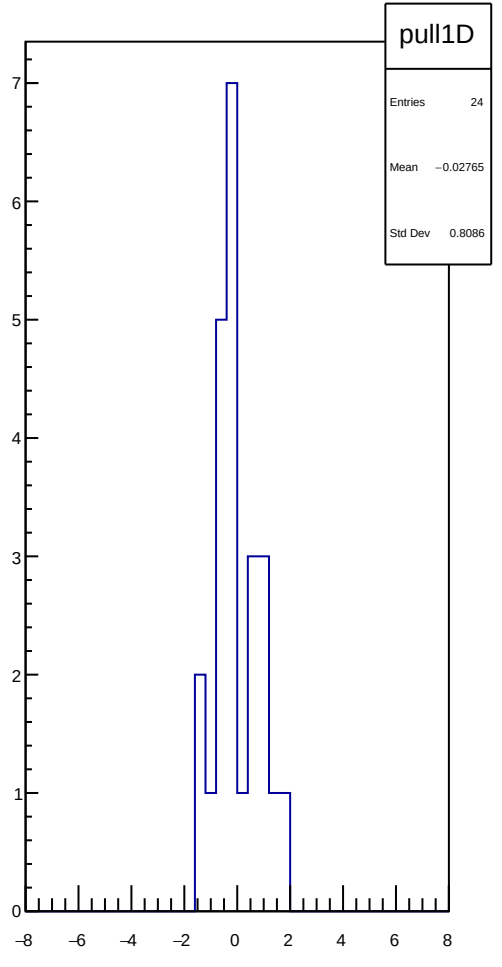

dit_asym_at1_dd_rms vs run
χ² / ndf 70.2 / 23
p0 2342 ± 3.372
2480
2460
2440
2420
2400
2380
2360
2340
2320
2300
2280
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

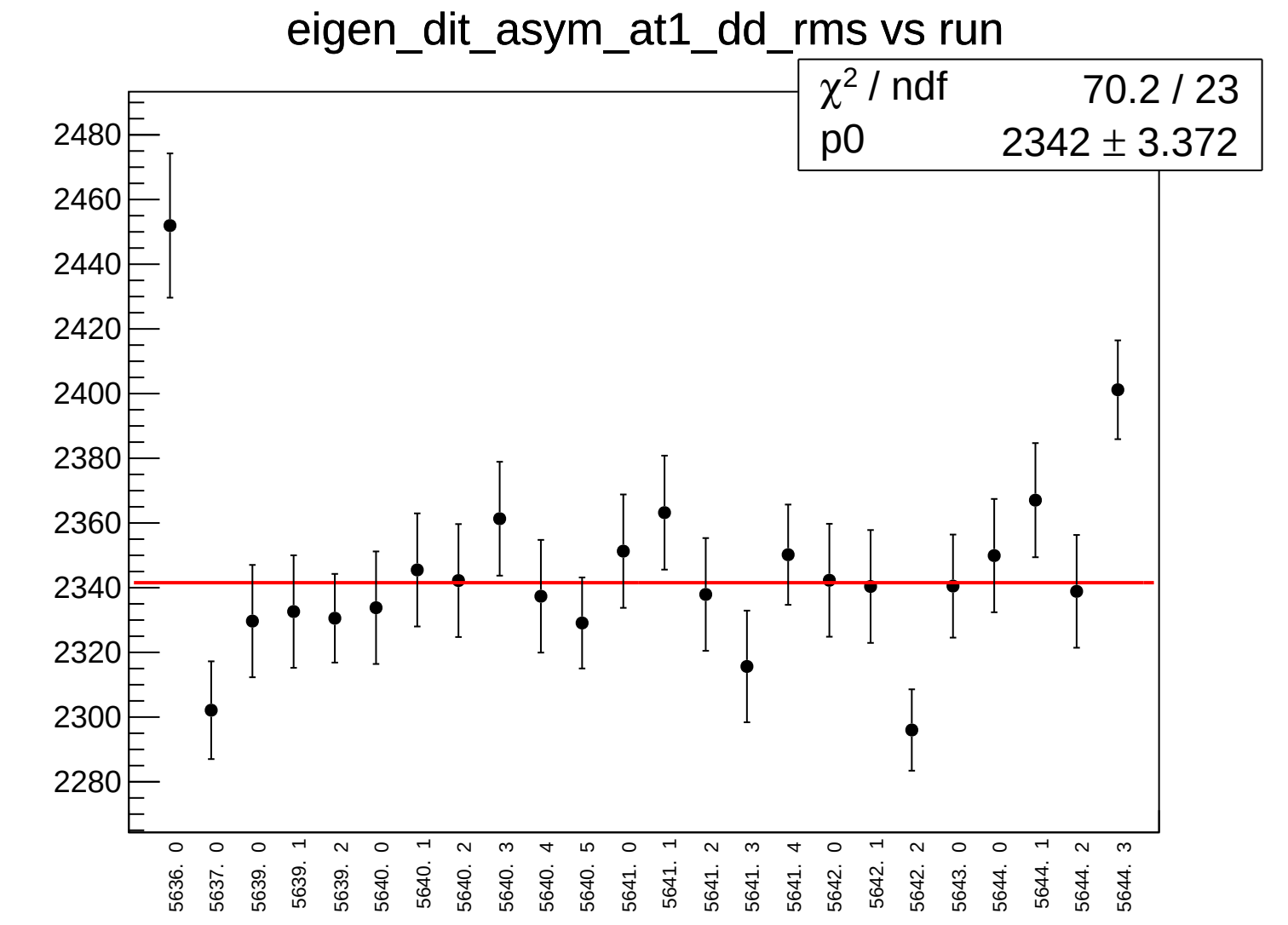

asym_at1_dd_dit_correction_mean vs run
×10^3
χ² / ndf 26 / 23
p0 −2646 ± 6921
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −41.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

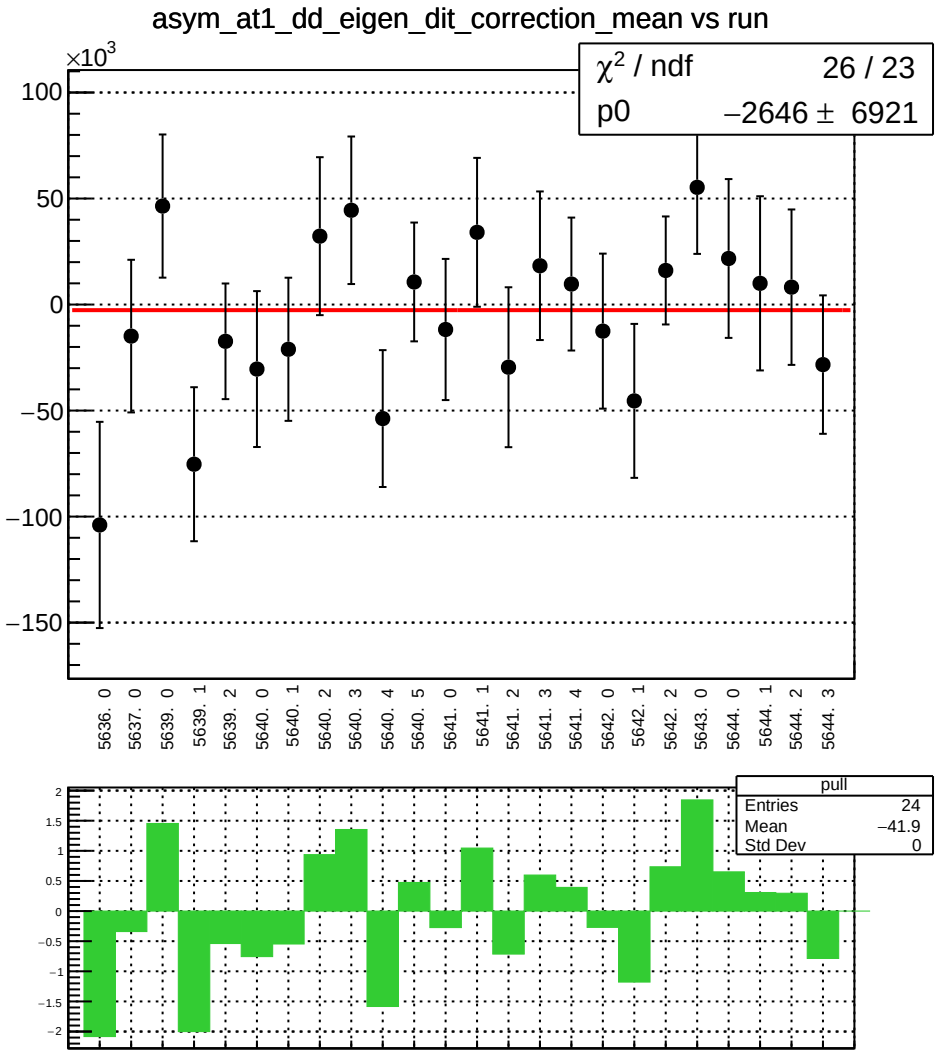

pull1D
Entries 24
Mean −0.04087
Std Dev 1.04
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

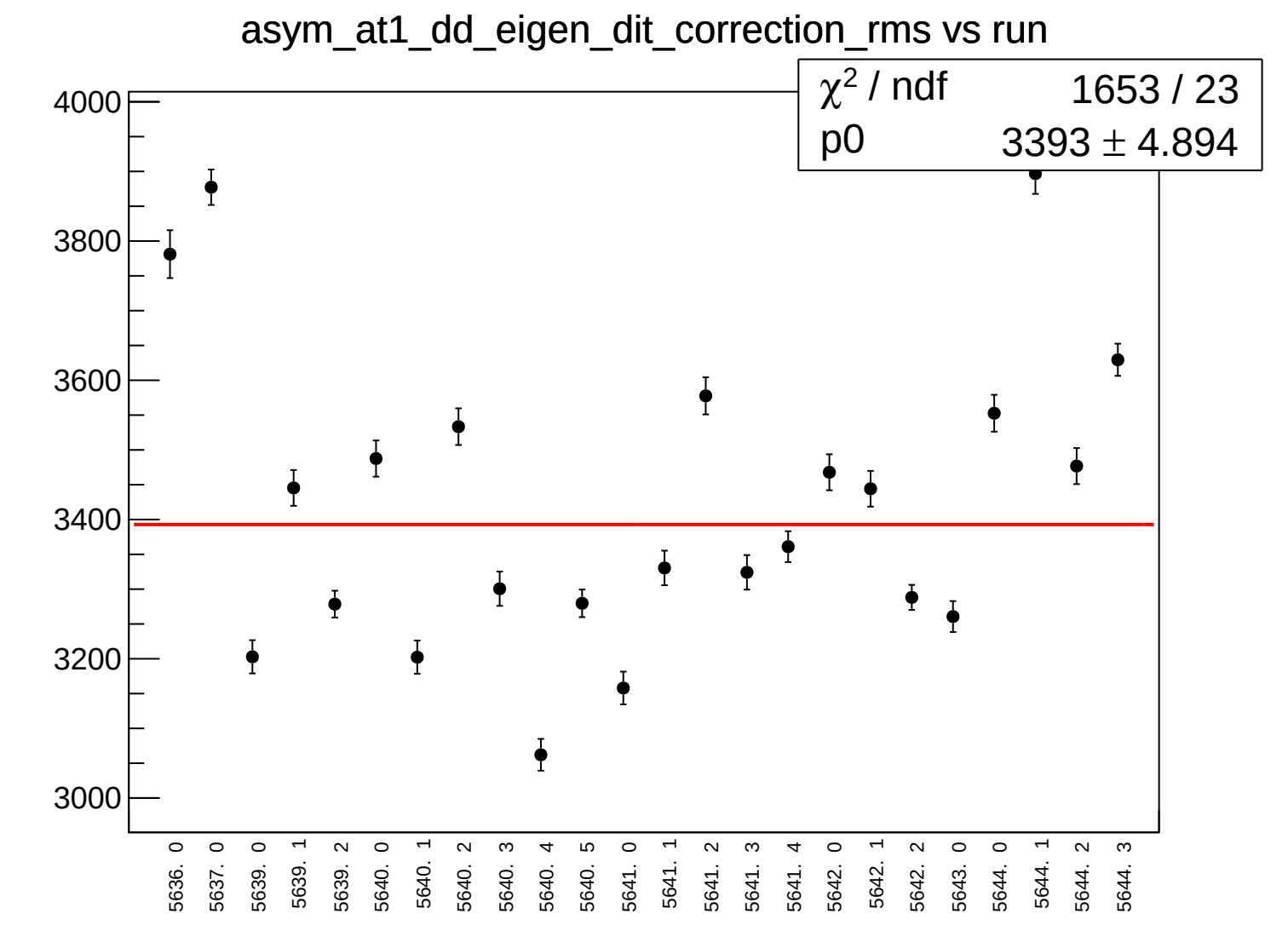

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 1653 / 23
p0 3393 ± 4.894
4000
3800
3600
3400
3200
3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

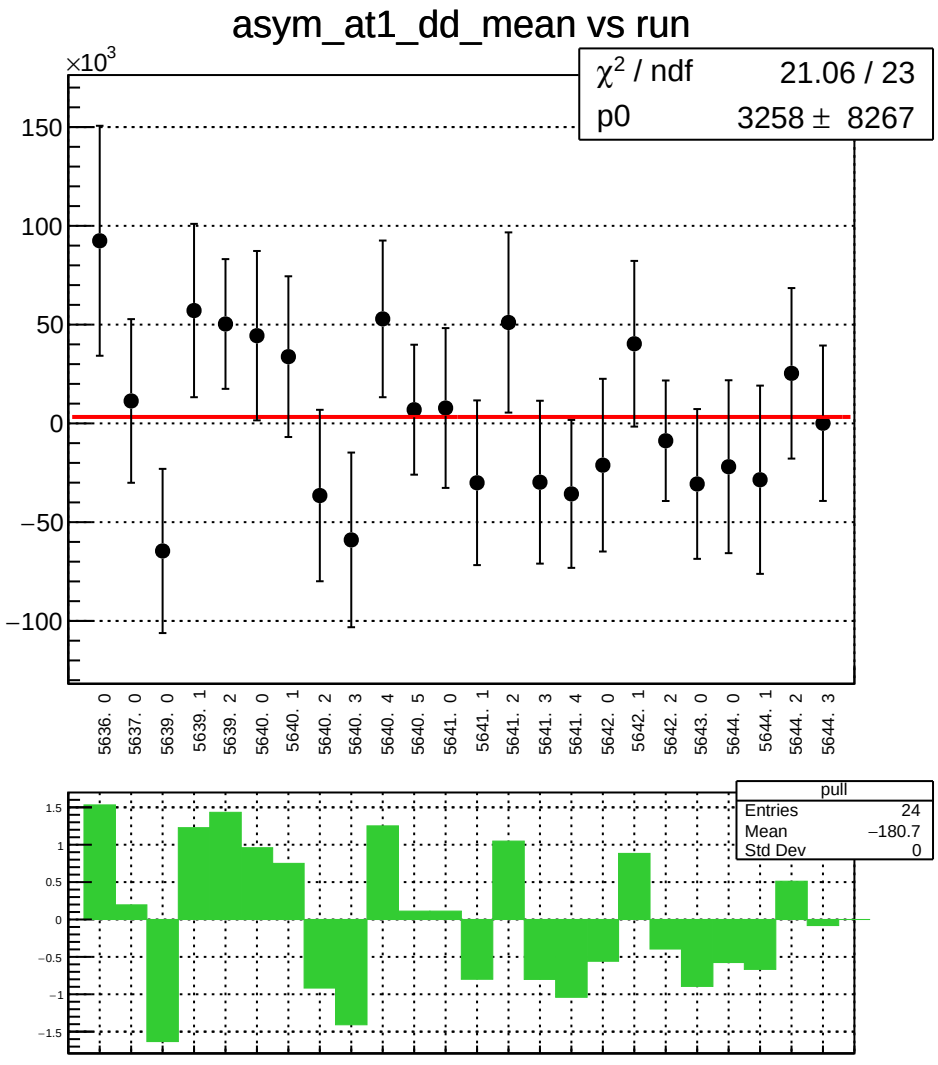

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 15.71 / 23
p0 −16.93 ± 4769
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 21.98
Std Dev 9.05
1.5
1
0.5
0
−0.5
−1
−1.5

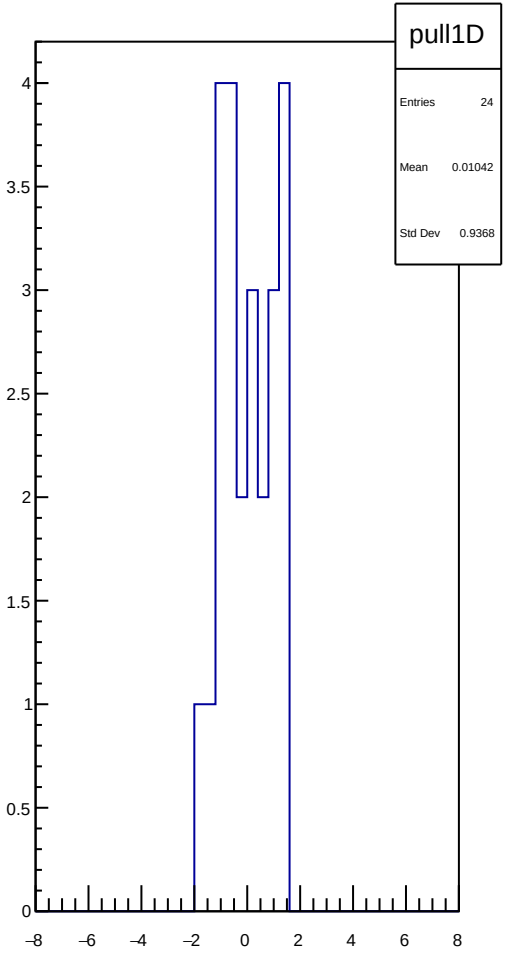

pull1D
Entries 24
Mean −0.02765
Std Dev 0.8086
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

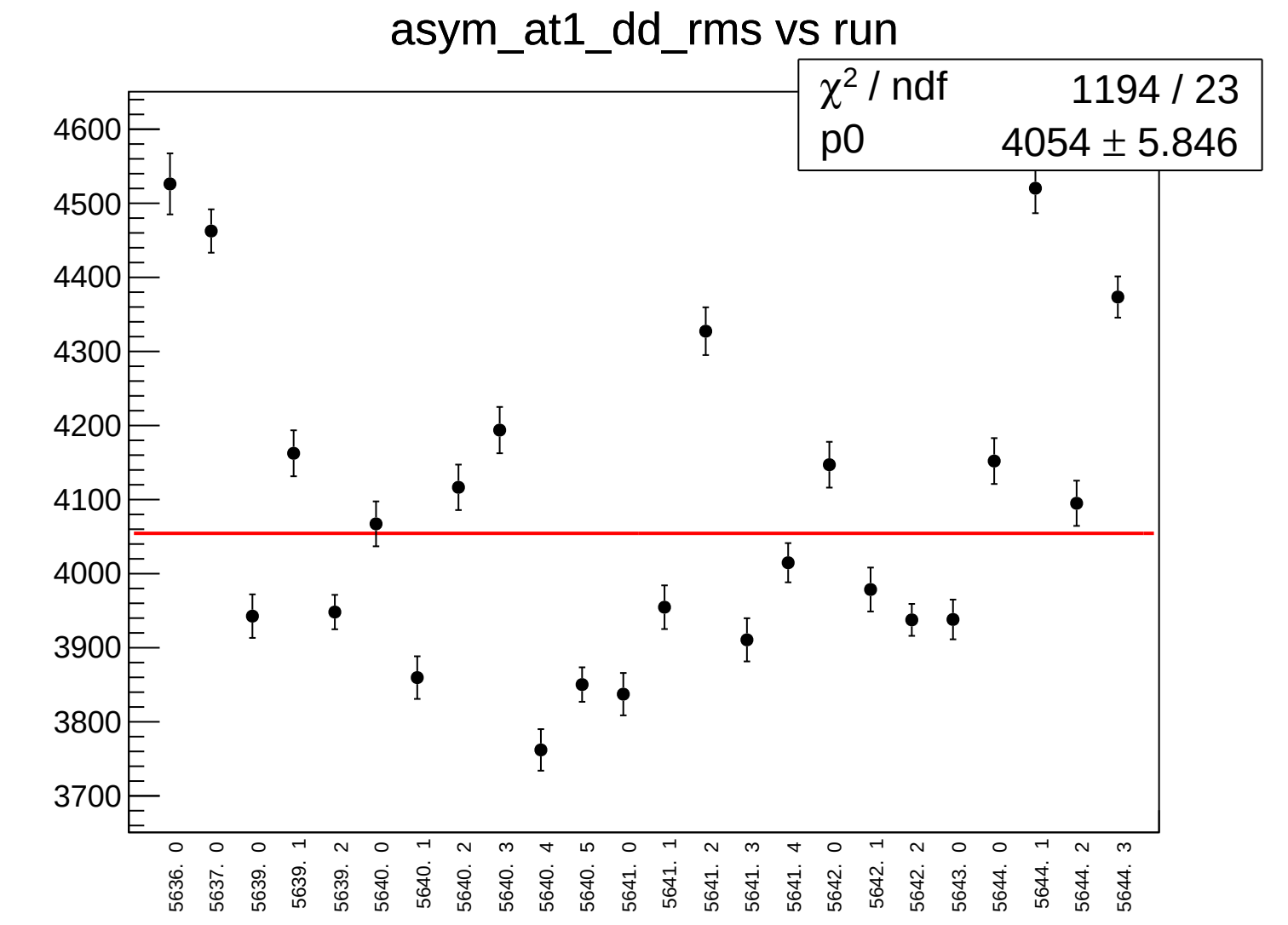

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 70.2 / 23
p0 2342 ± 3.372
2480
2460
2440
2420
2400
2380
2360
2340
2320
2300
2280
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

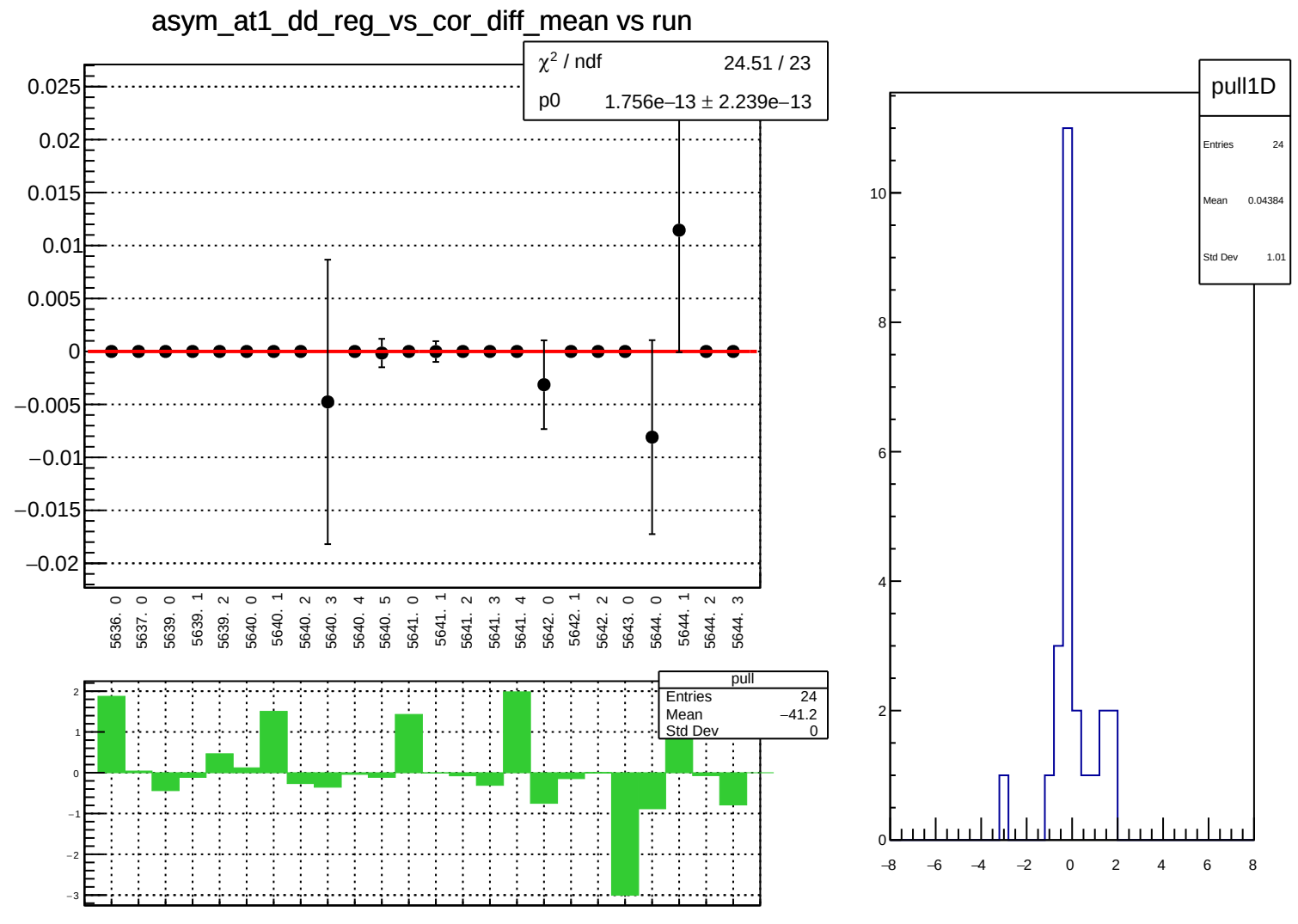

asym_at1_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 26 / 23
p0 −2646 ± 6921
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −41.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.04087
Std Dev 1.04
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

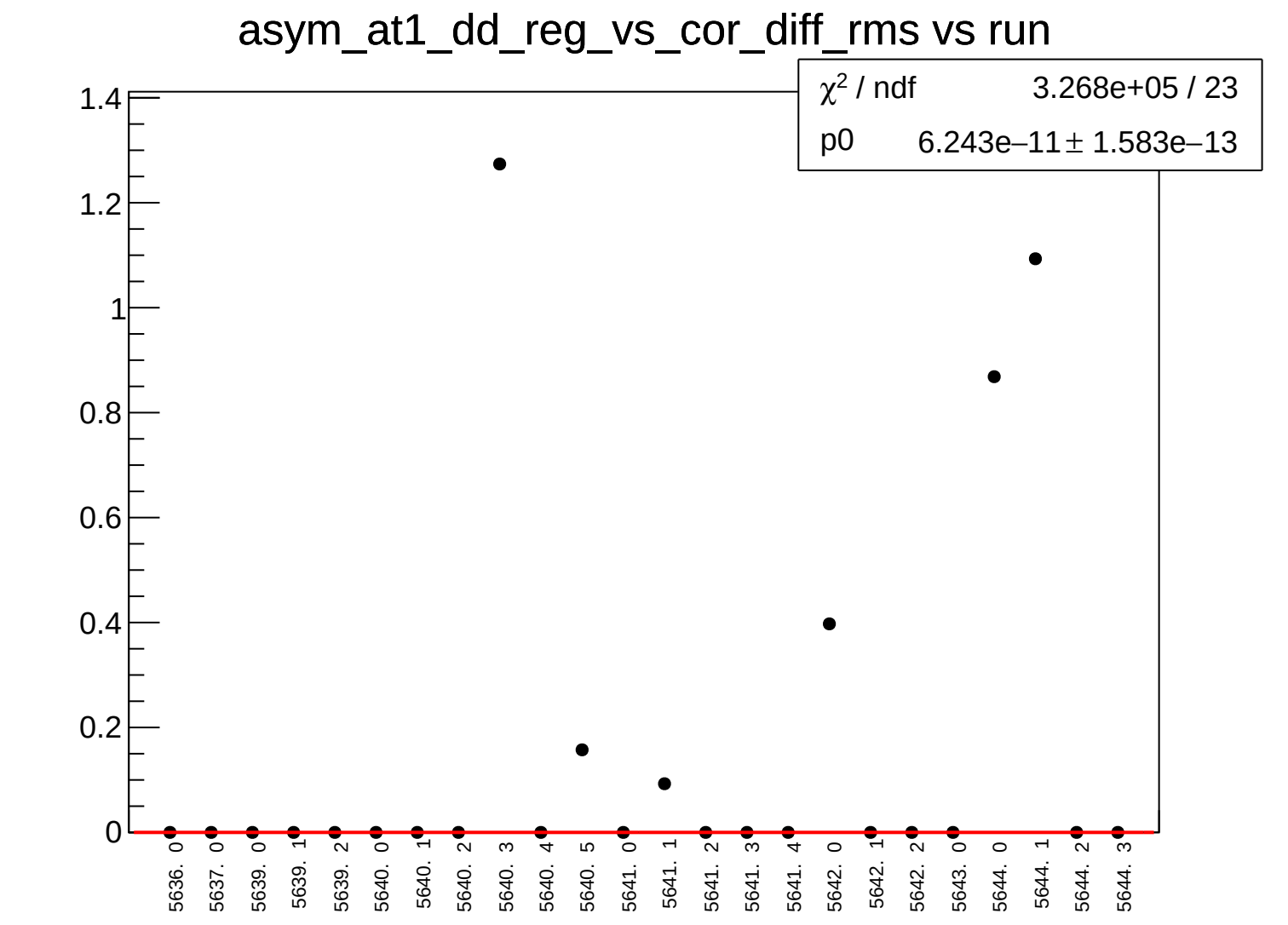

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1653 / 23
p0 3393 ± 4.894
4000
3800
3600
3400
3200
3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

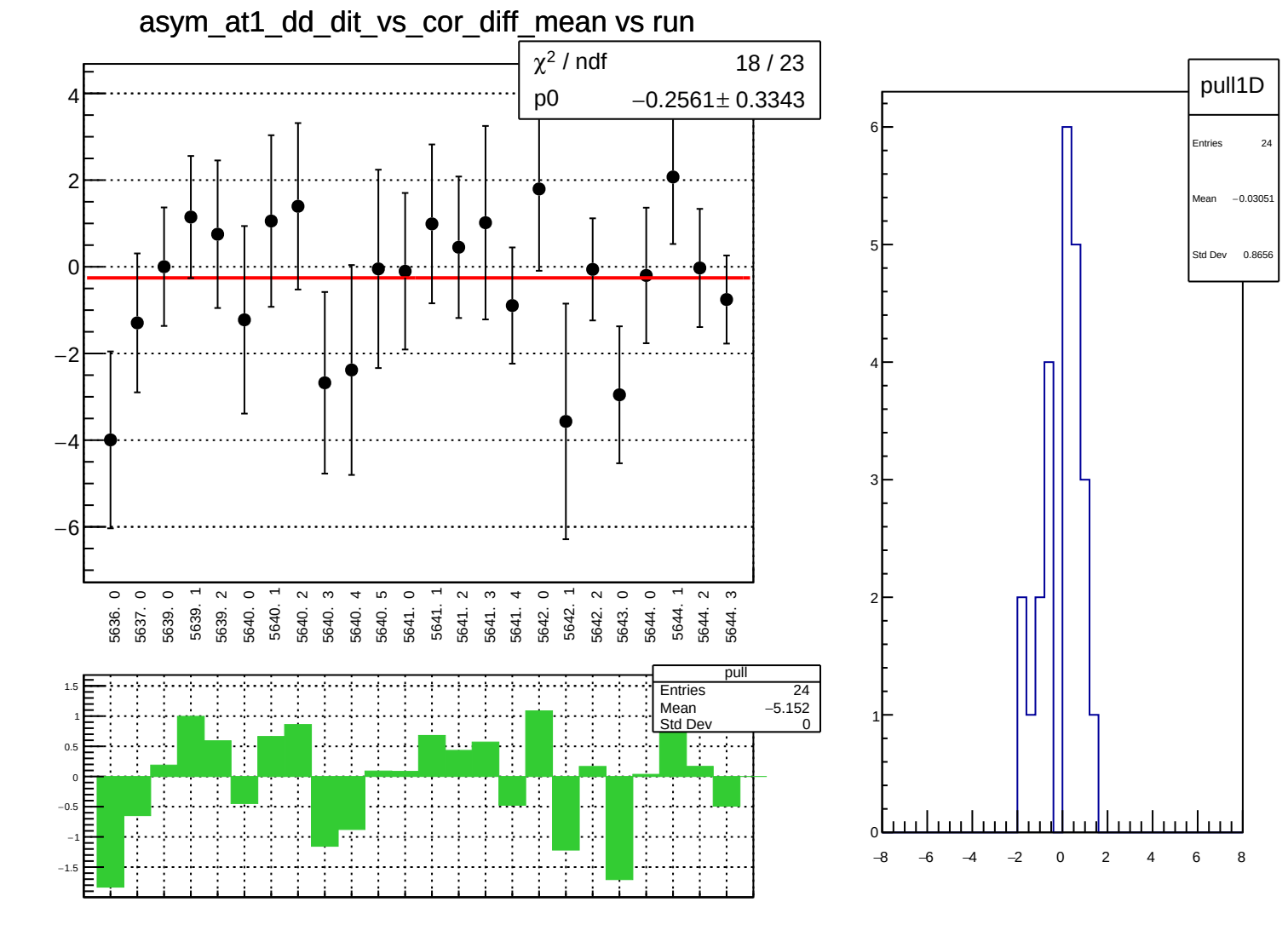

asym_at1_dd_mean vs run
×10^3
χ^2 / ndf 21.06 / 23
p0 3258 ± 8267
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −180.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

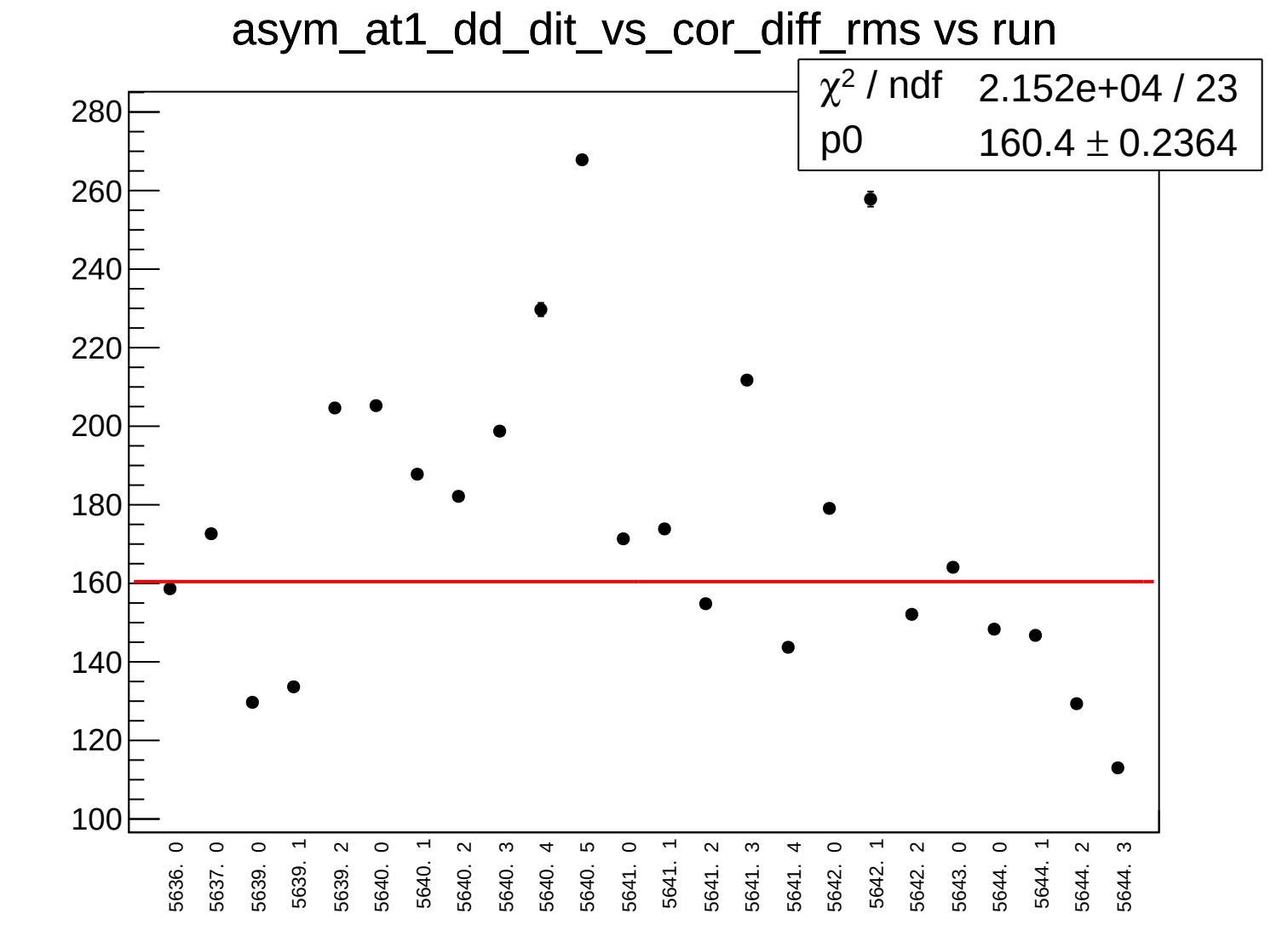

pull1D
Entries 24
Mean 0.01042
Std Dev 0.9368
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

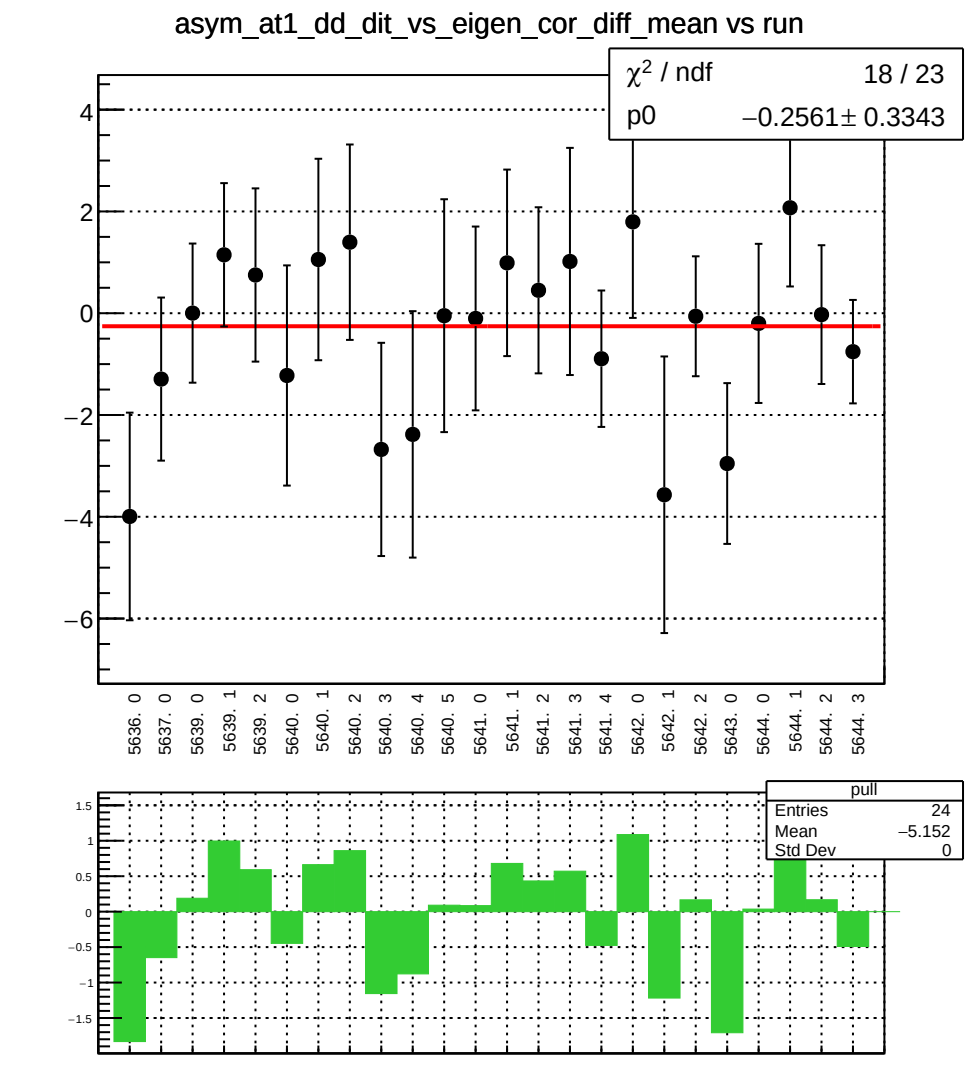

asym_at1_dd_rms vs run
χ² / ndf 1194 / 23
p0 4054 ± 5.846
4600
4500
4400
4300
4200
4100
4000
3900
3800
3700
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

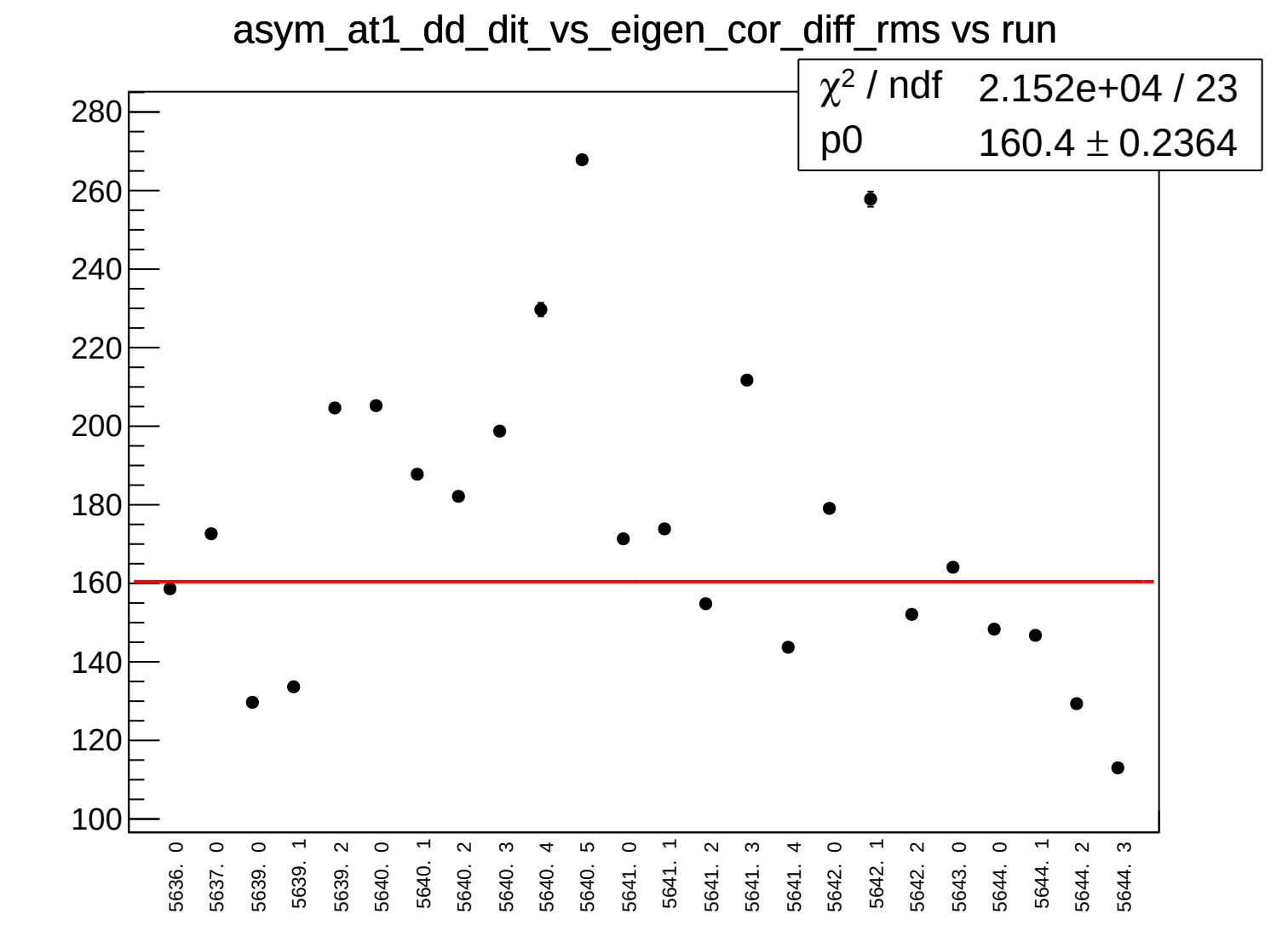

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 24.51 / 23
p0 1.756e−13 ± 2.239e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −41.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean 0.04384
Std Dev 1.01
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

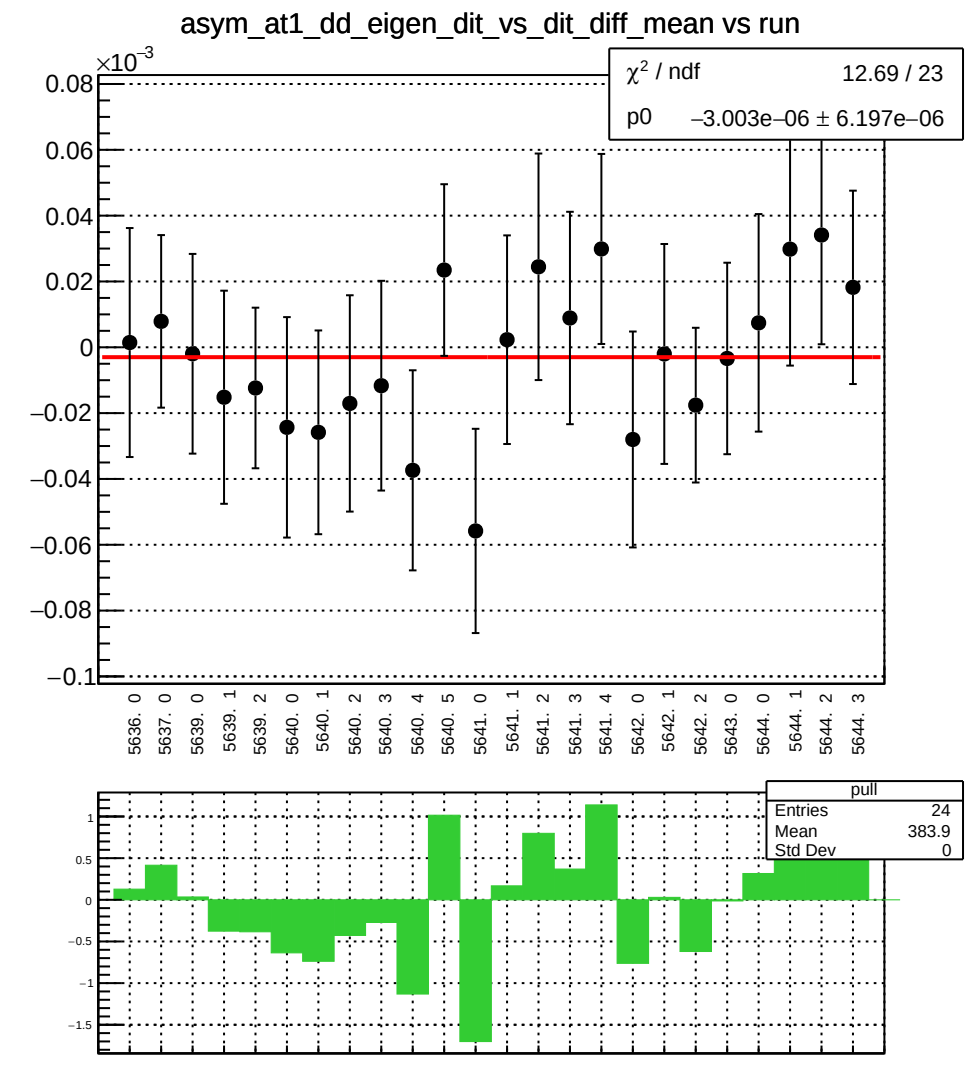

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.268e+05 / 23
p0 6.243e−11 ± 1.583e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

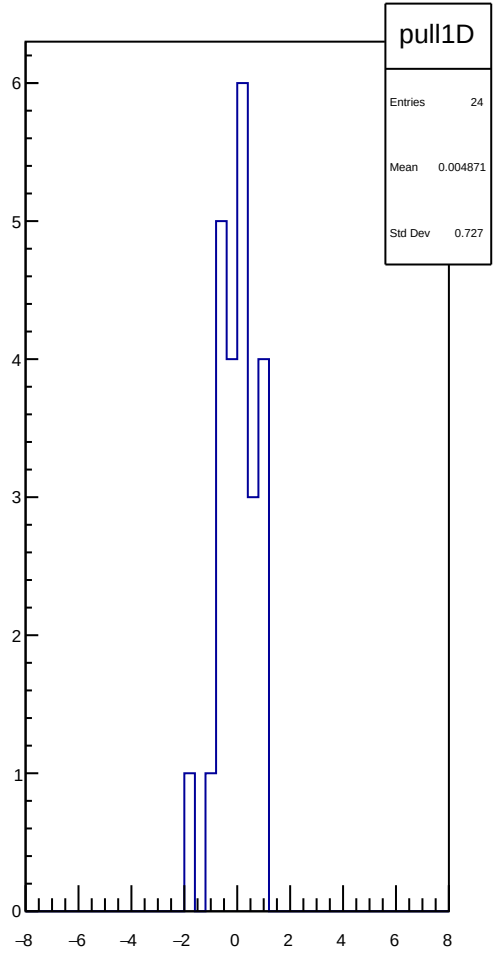

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 18 / 23
p0 −0.2561± 0.3343
4
2
0
−2
−4
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −5.152
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.03051
Std Dev 0.8656
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

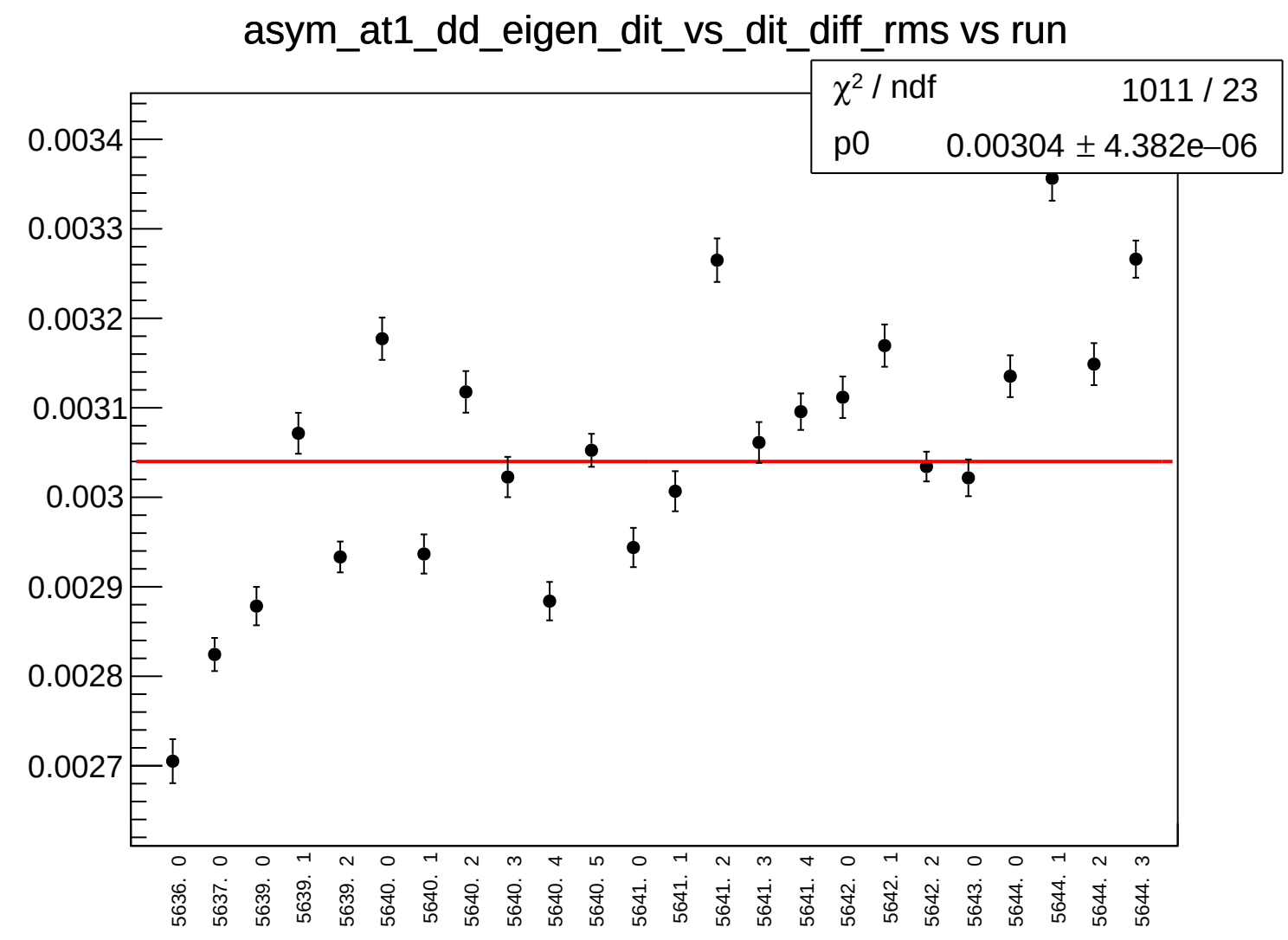

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.152e+04 / 23
p0 160.4 ± 0.2364
280
260
240
220
200
180
160
140
120
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 18 / 23
p0 −0.2561± 0.3343
4
2
0
−2
−4
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −5.152
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.03051
Std Dev 0.8656
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

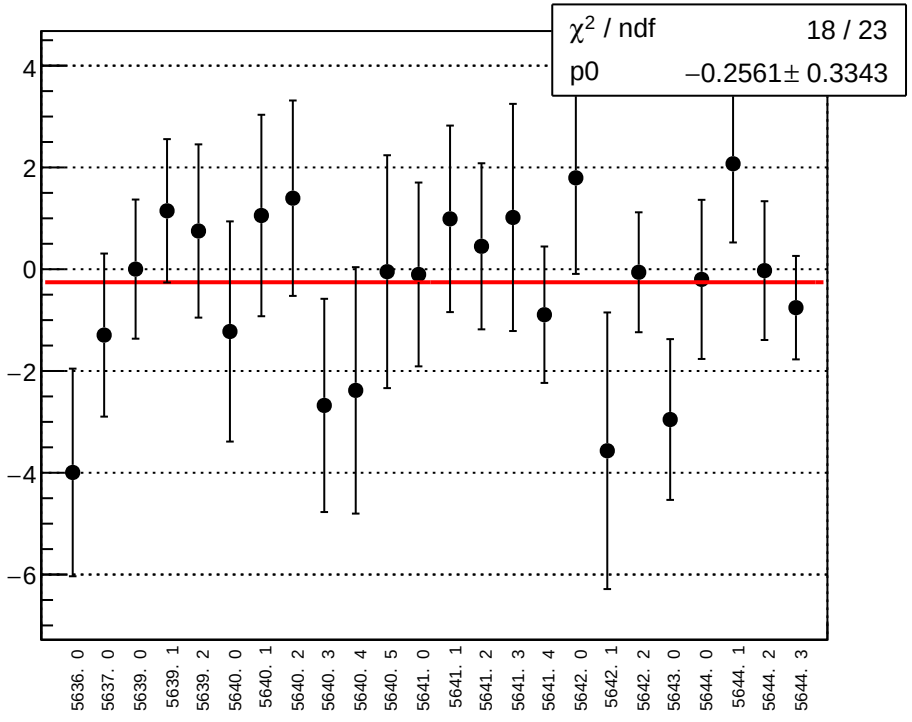

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.152e+04 / 23
p0 160.4 ± 0.2364
280
260
240
220
200
180
160
140
120
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

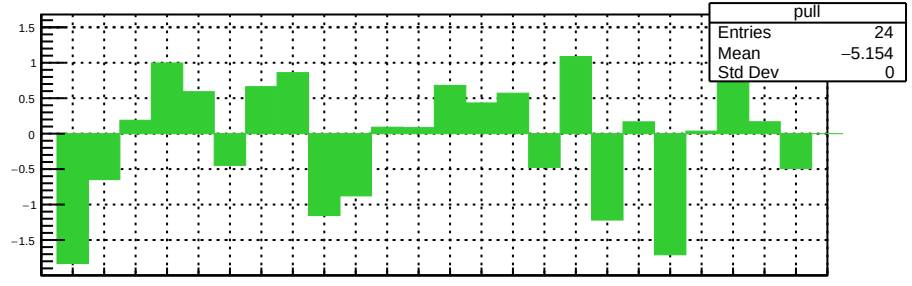

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 12.69 / 23
p0 −3.003e−06 ± 6.197e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 383.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

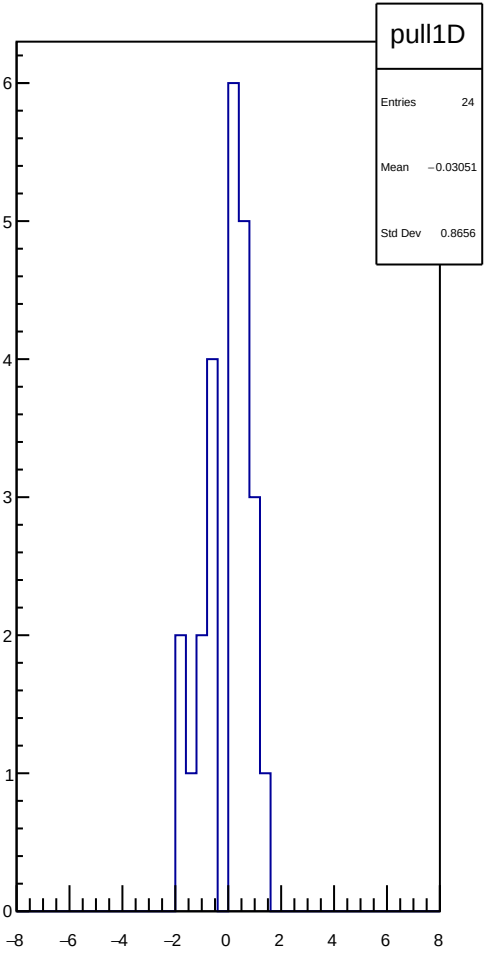

pull1D
Entries 24
Mean 0.004871
Std Dev 0.727
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

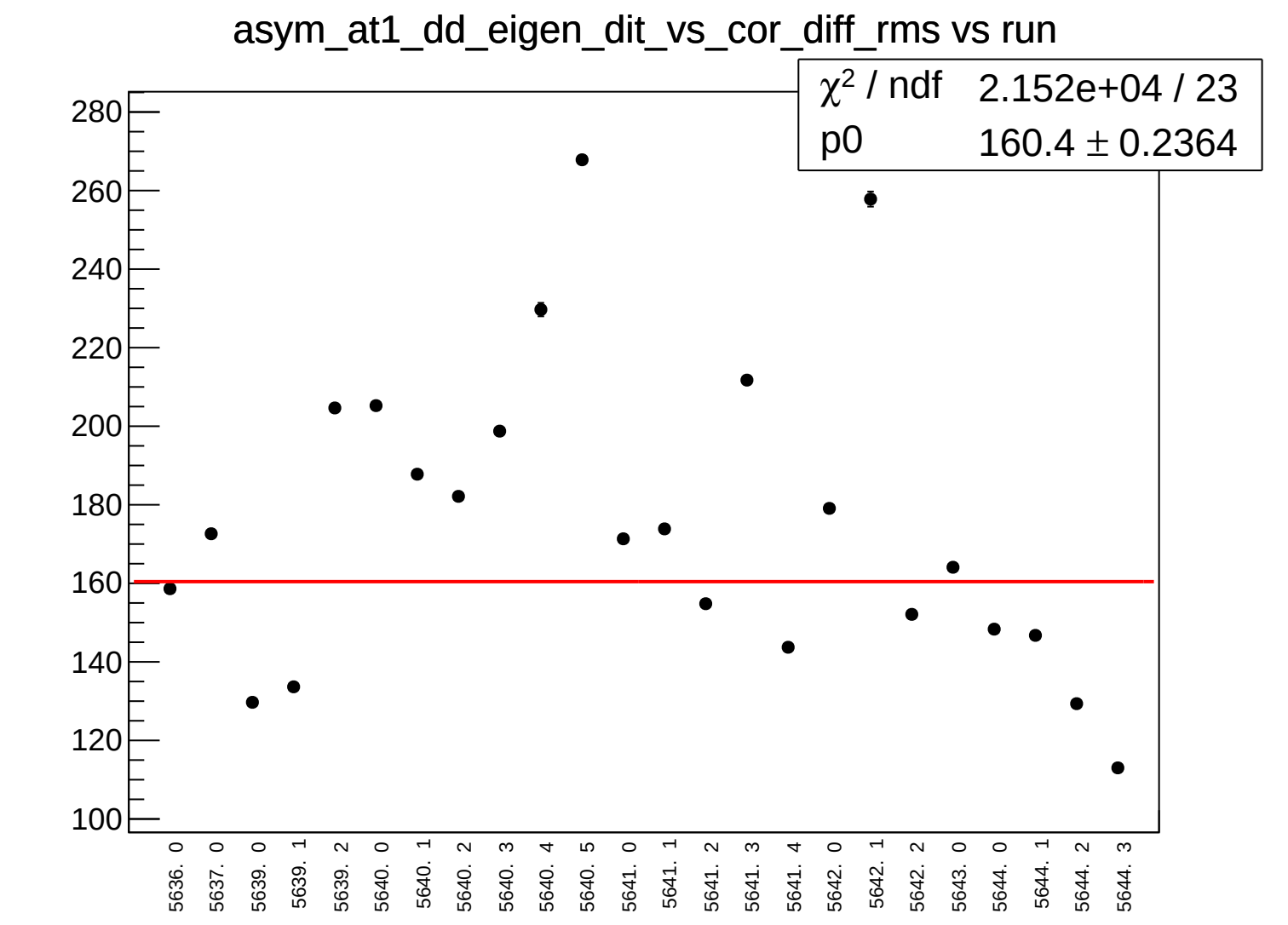

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1011 / 23
p0 0.00304 ± 4.382e–06
0.0034
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

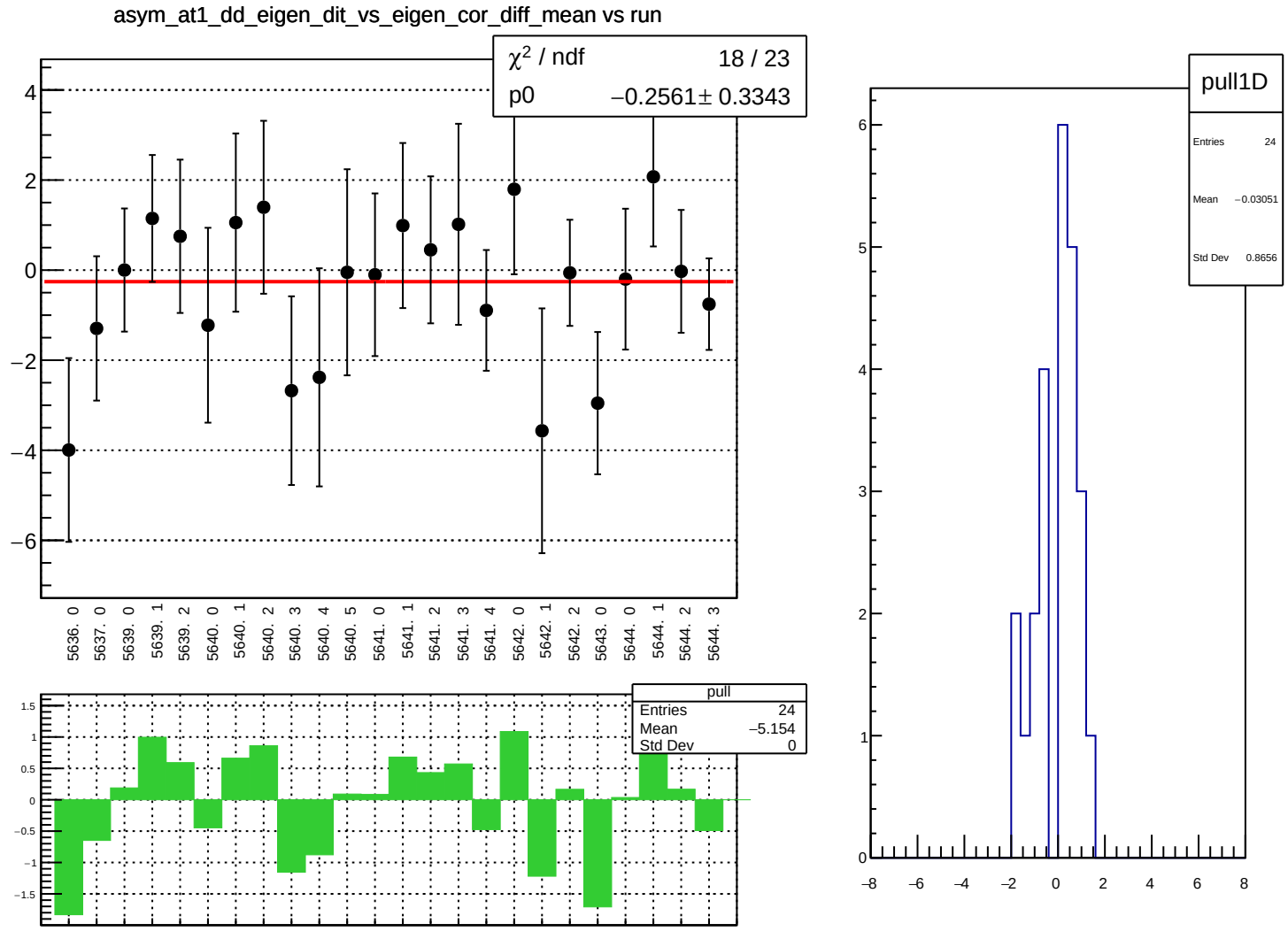
asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run

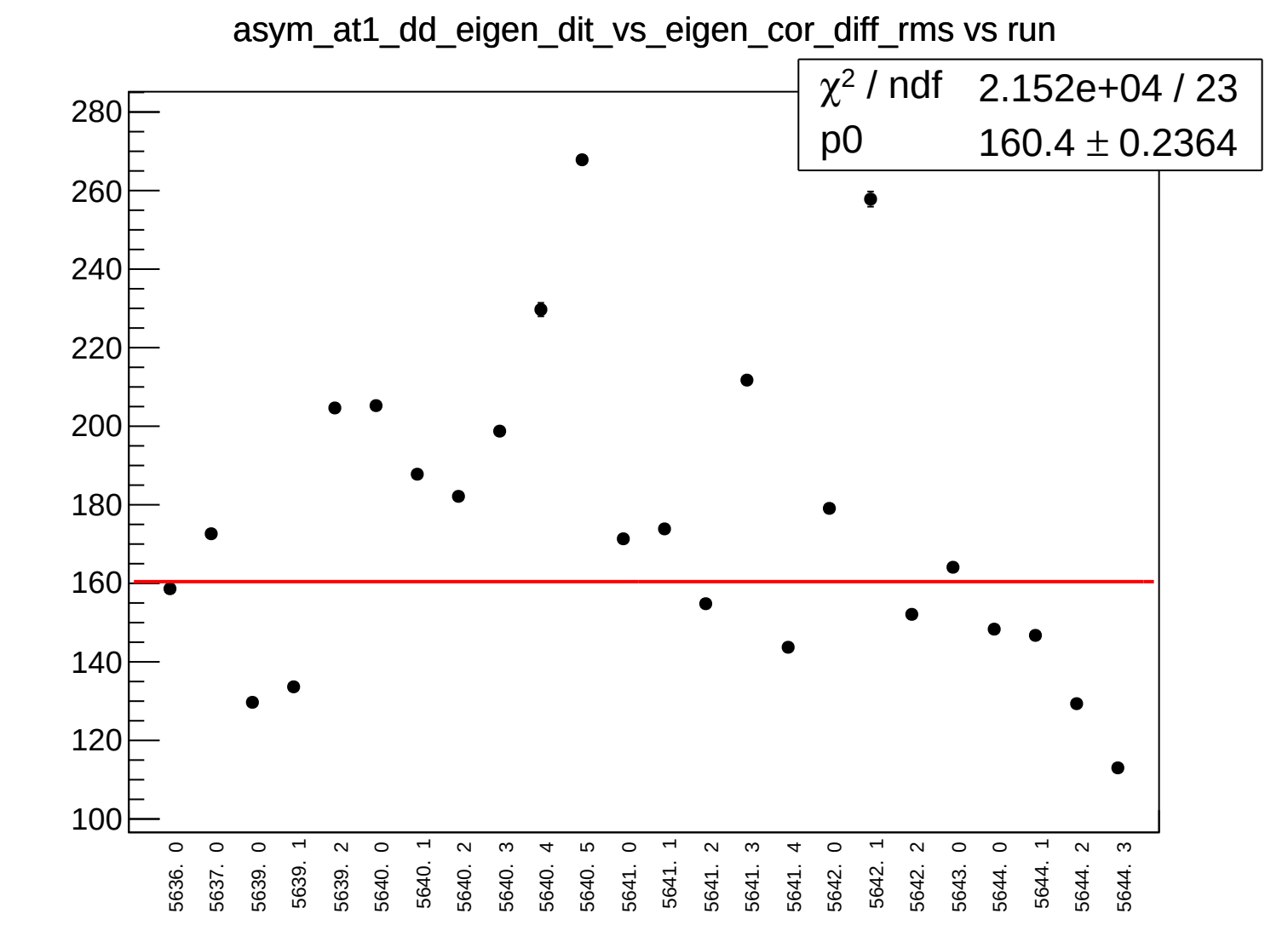


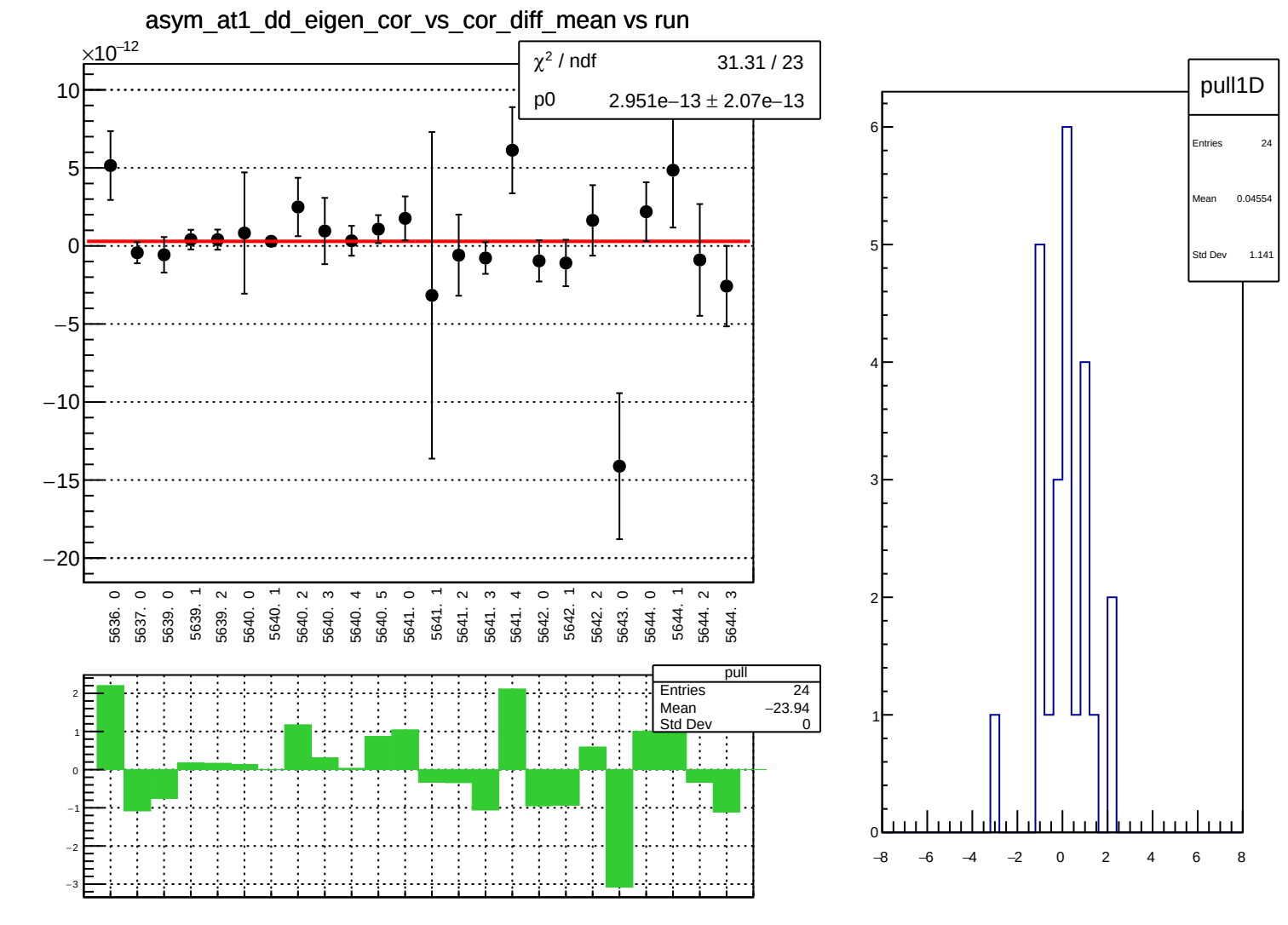


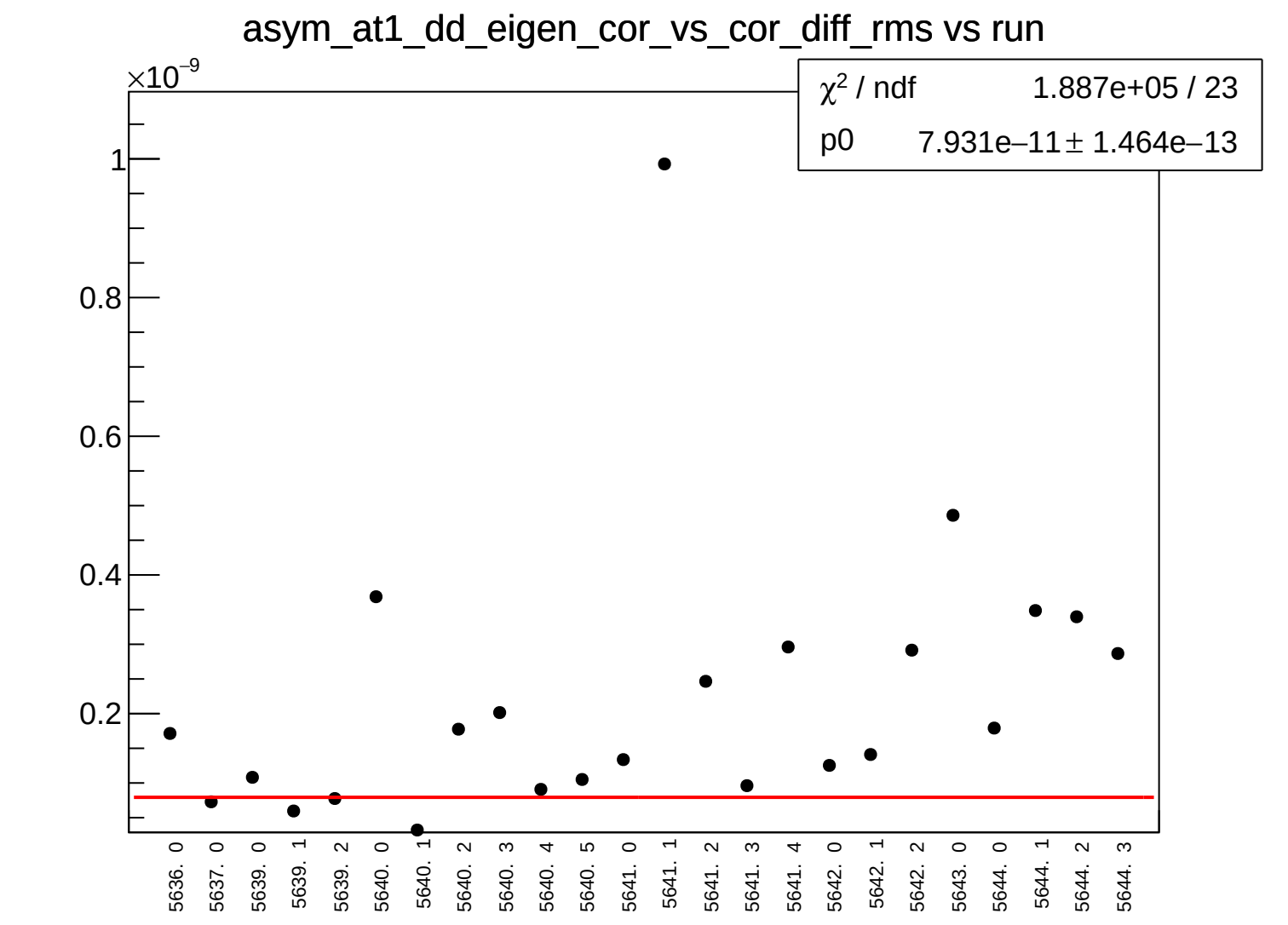


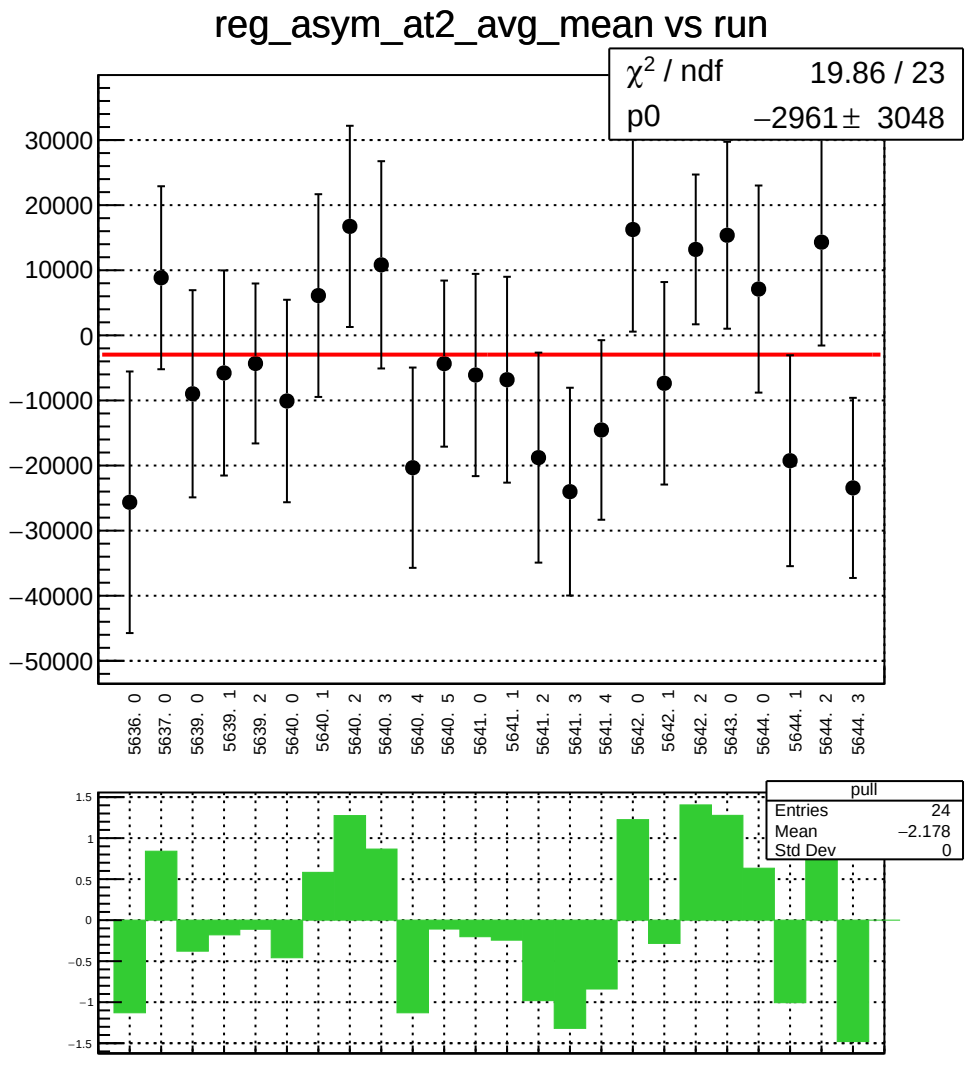

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.152e+04 / 23
p0 160.4 ± 0.2364
280
260
240
220
200
180
160
140
120
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

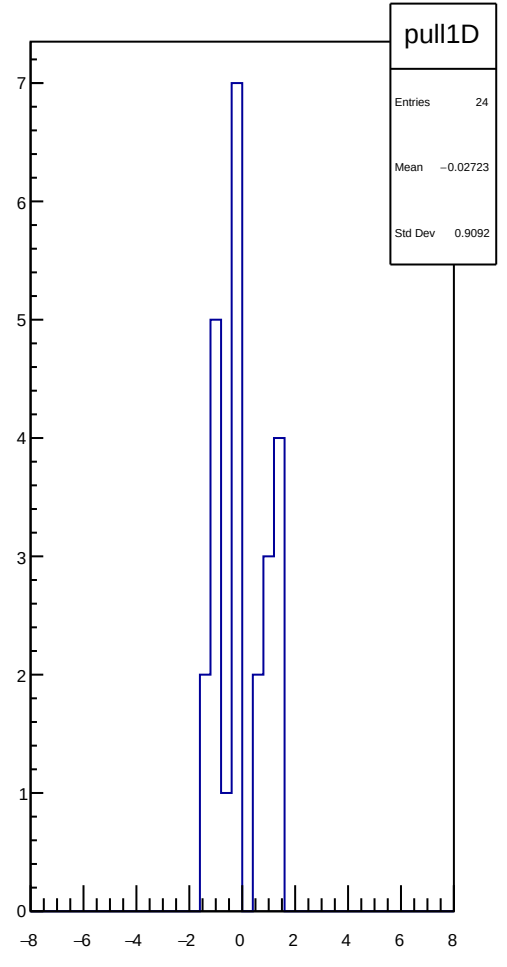

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 18 / 23
p0 −0.2561± 0.3343
4
2
0
−2
−4
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −5.154
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.03051
Std Dev 0.8656
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

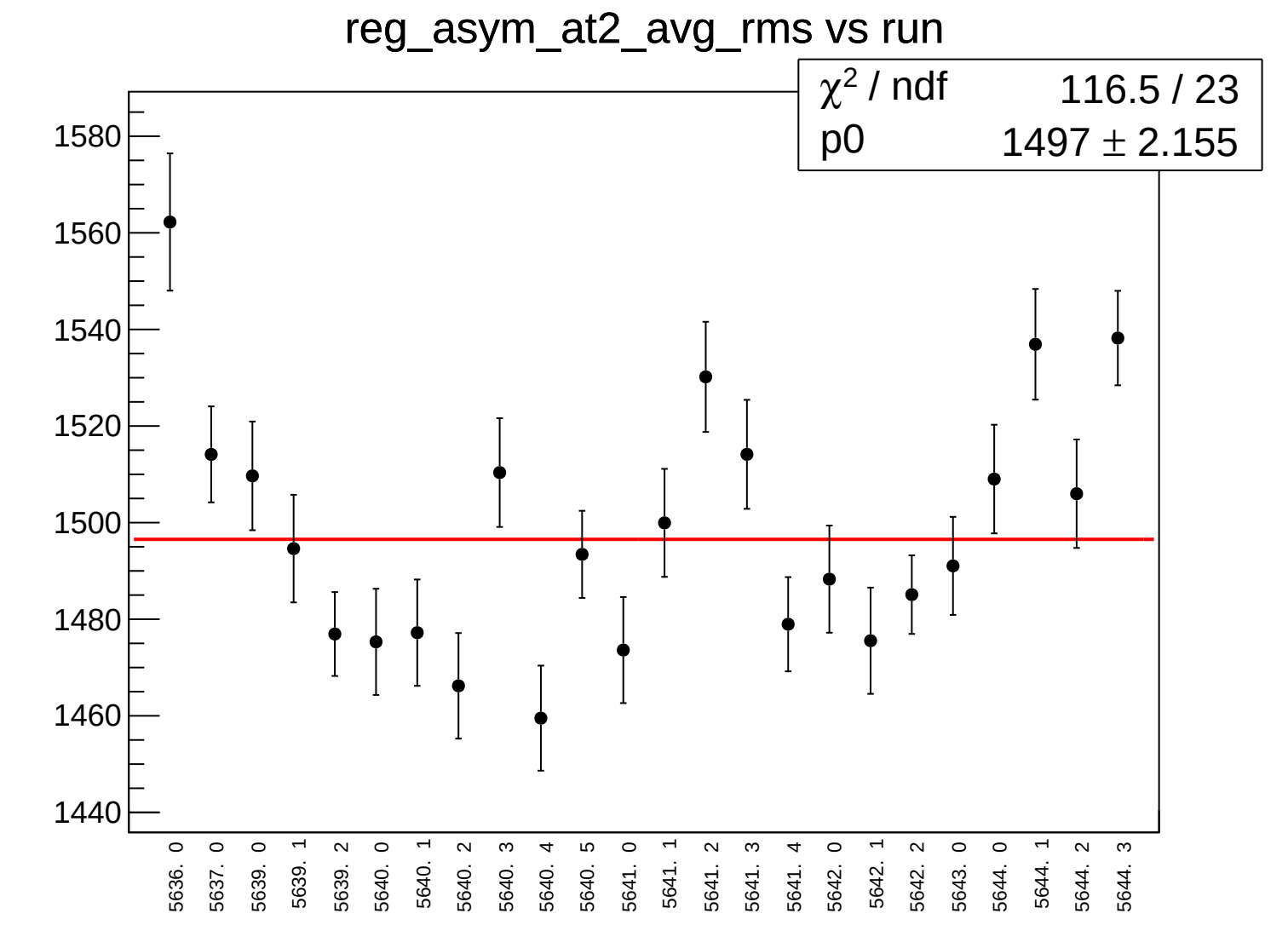

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.152e+04 / 23
p0 160.4 ± 0.2364
280
260
240
220
200
180
160
140
120
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

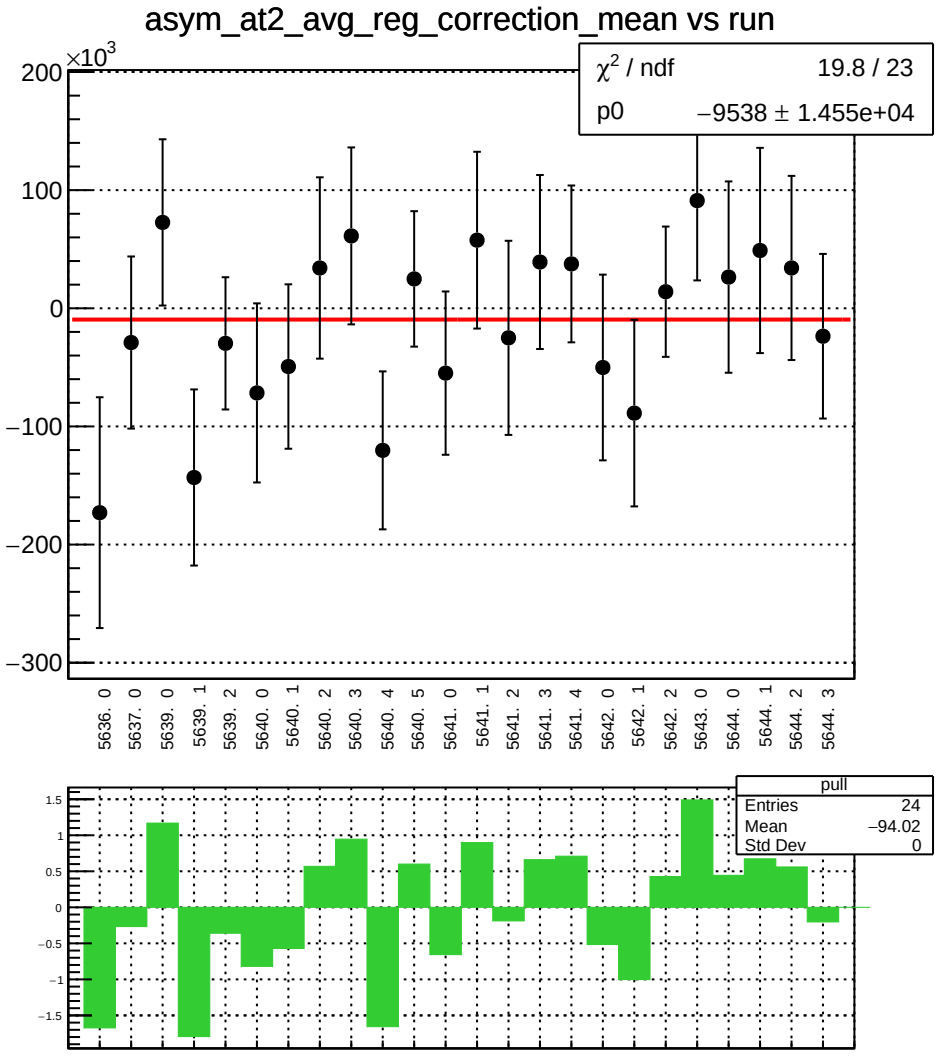

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 31.31 / 23
p0 2.951e−13 ± 2.07e−13
10
5
0
−5
−10
−15
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −23.94
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean 0.04554
Std Dev 1.141
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

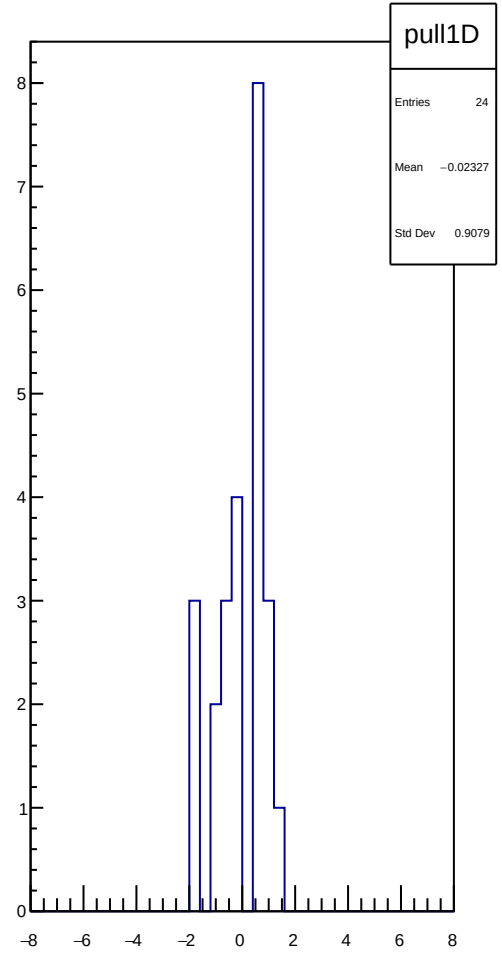

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.887e+05 / 23
p0 7.931e−11 ± 1.464e−13
1
0.8
0.6
0.4
0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

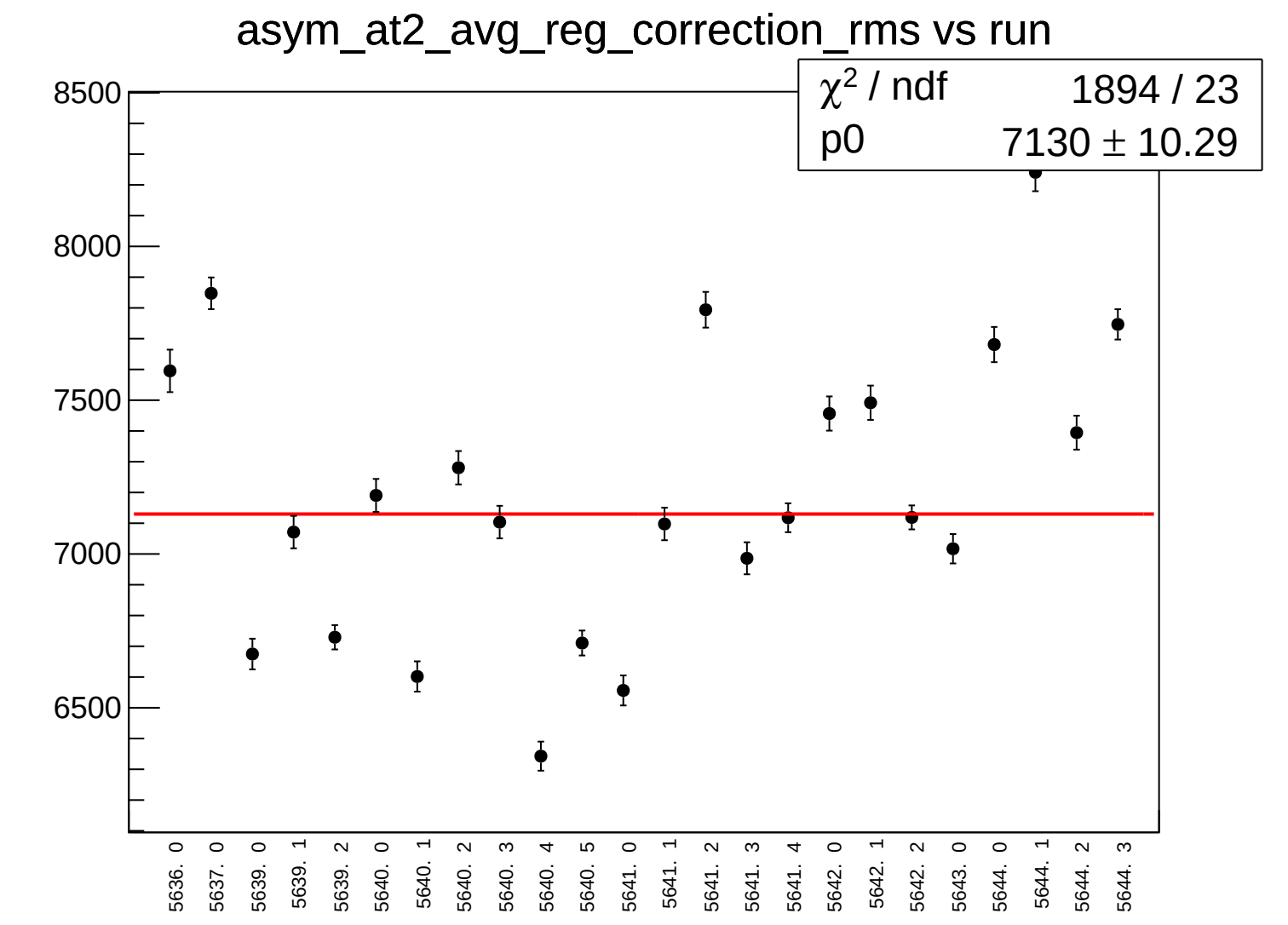

reg_asym_at2_avg_mean vs run
χ² / ndf 19.86 / 23
p0 −2961 ± 3048
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −2.178
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

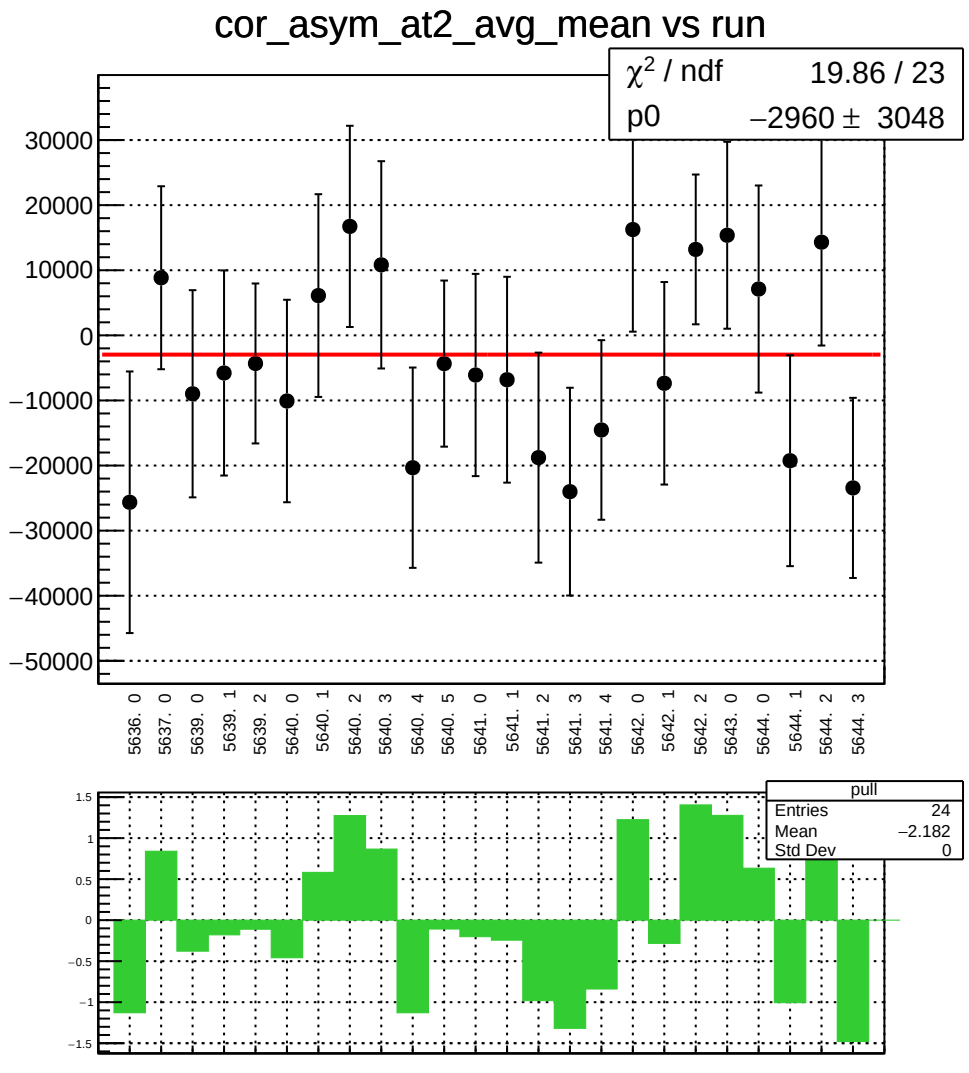

pull1D
Entries 24
Mean −0.02723
Std Dev 0.9092
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

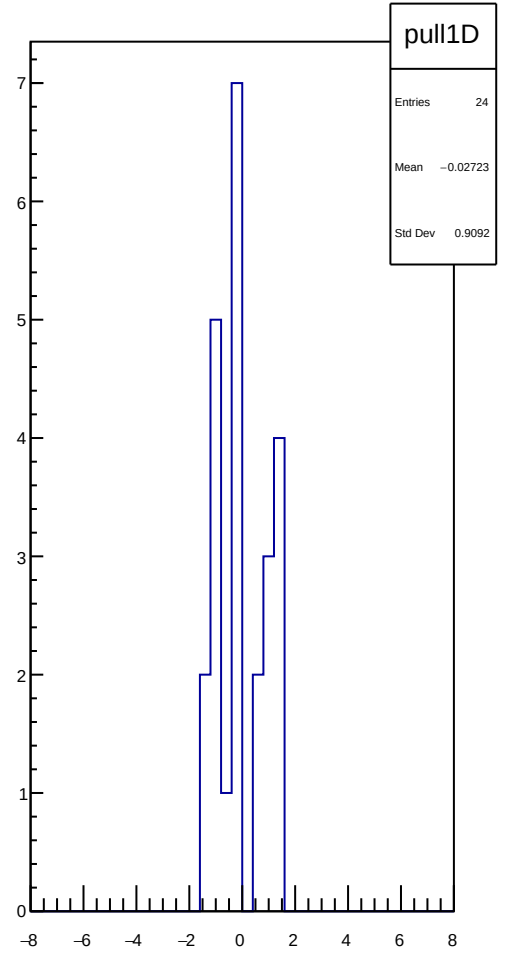

reg_asym_at2_avg_rms vs run
χ² / ndf 116.5 / 23
p0 1497 ± 2.155
1580
1560
1540
1520
1500
1480
1460
1440
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

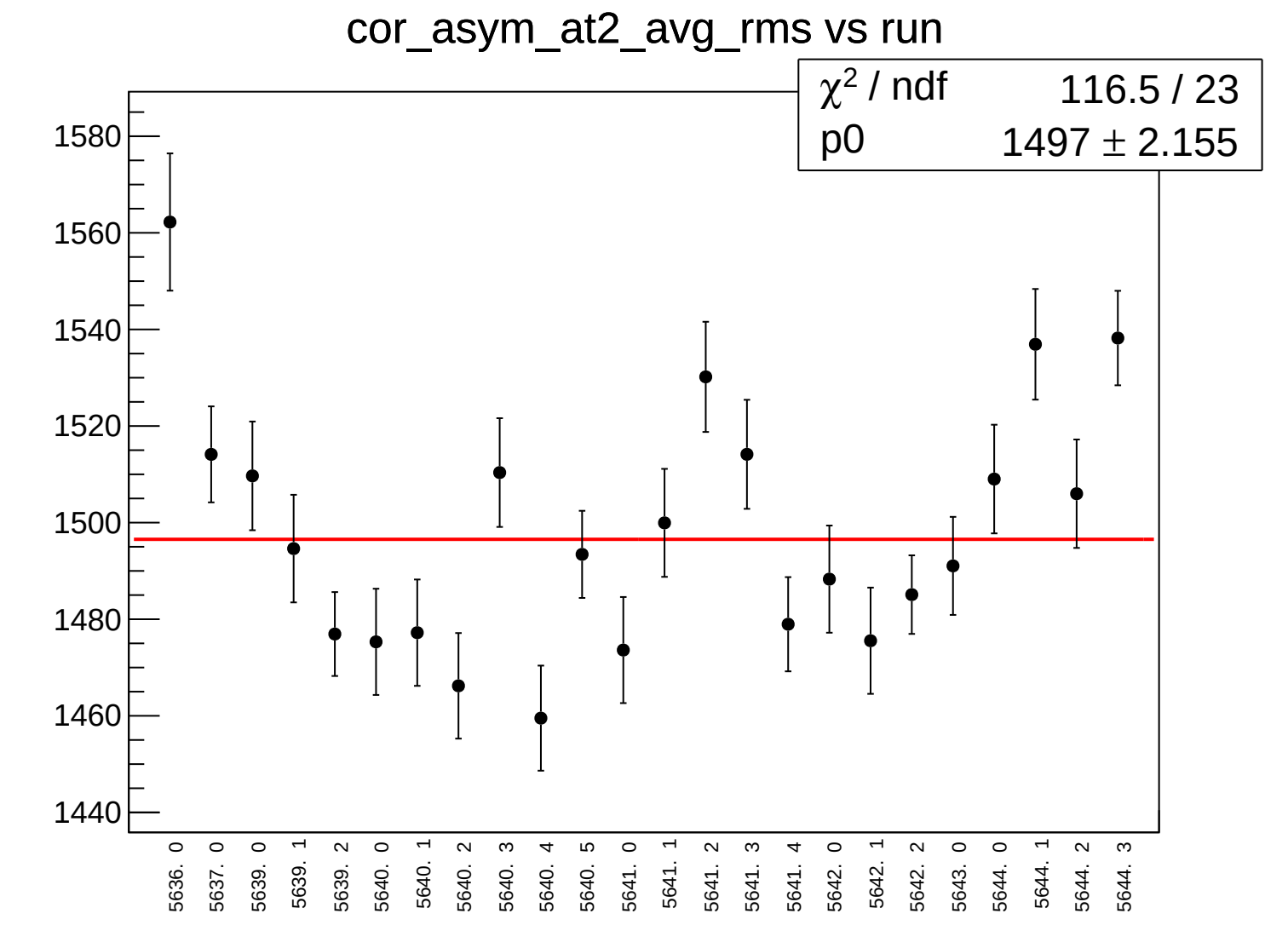

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 19.8 / 23
p0 −9538 ± 1.455e+04
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −94.02
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

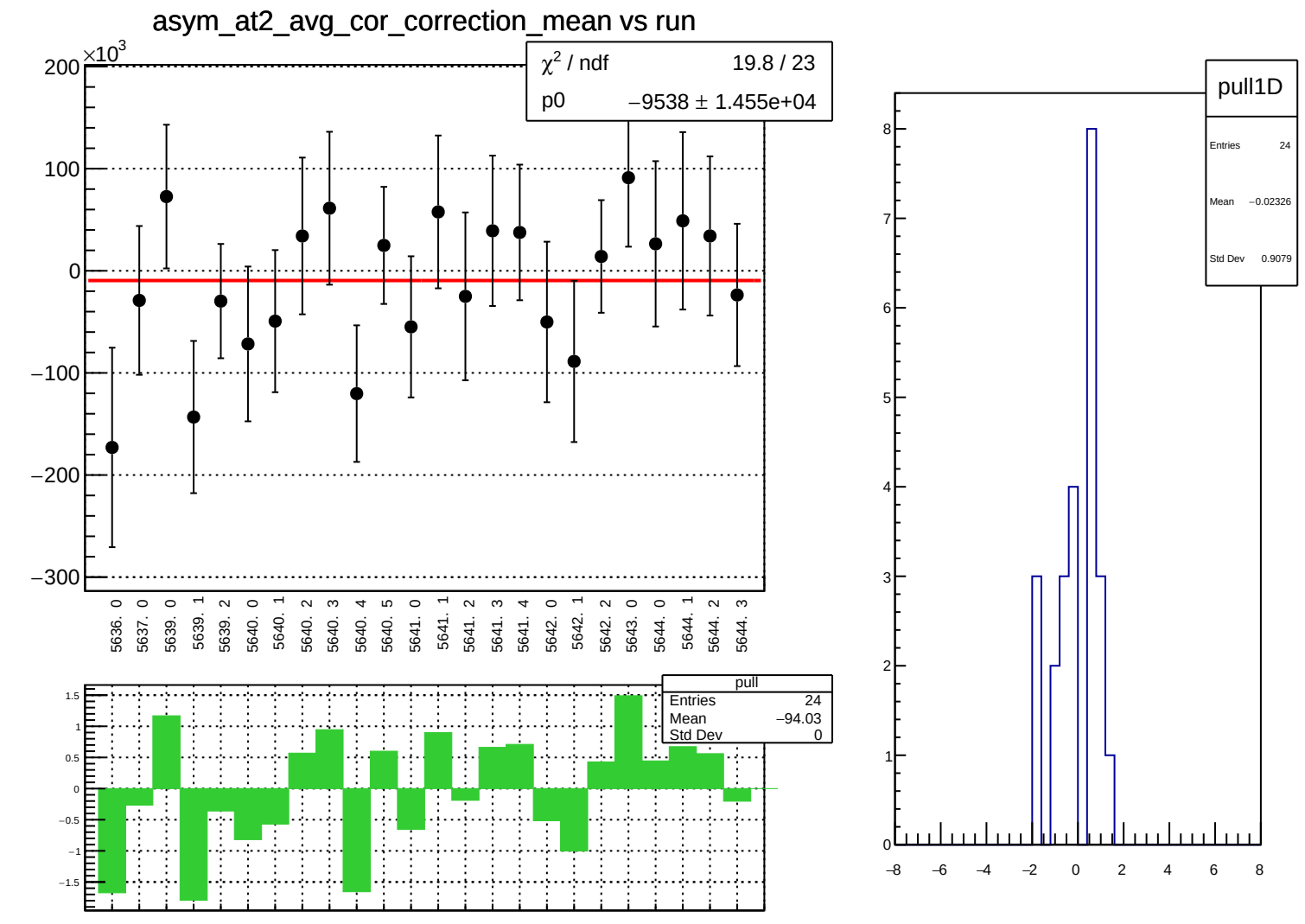

pull1D
Entries 24
Mean −0.02327
Std Dev 0.9079
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

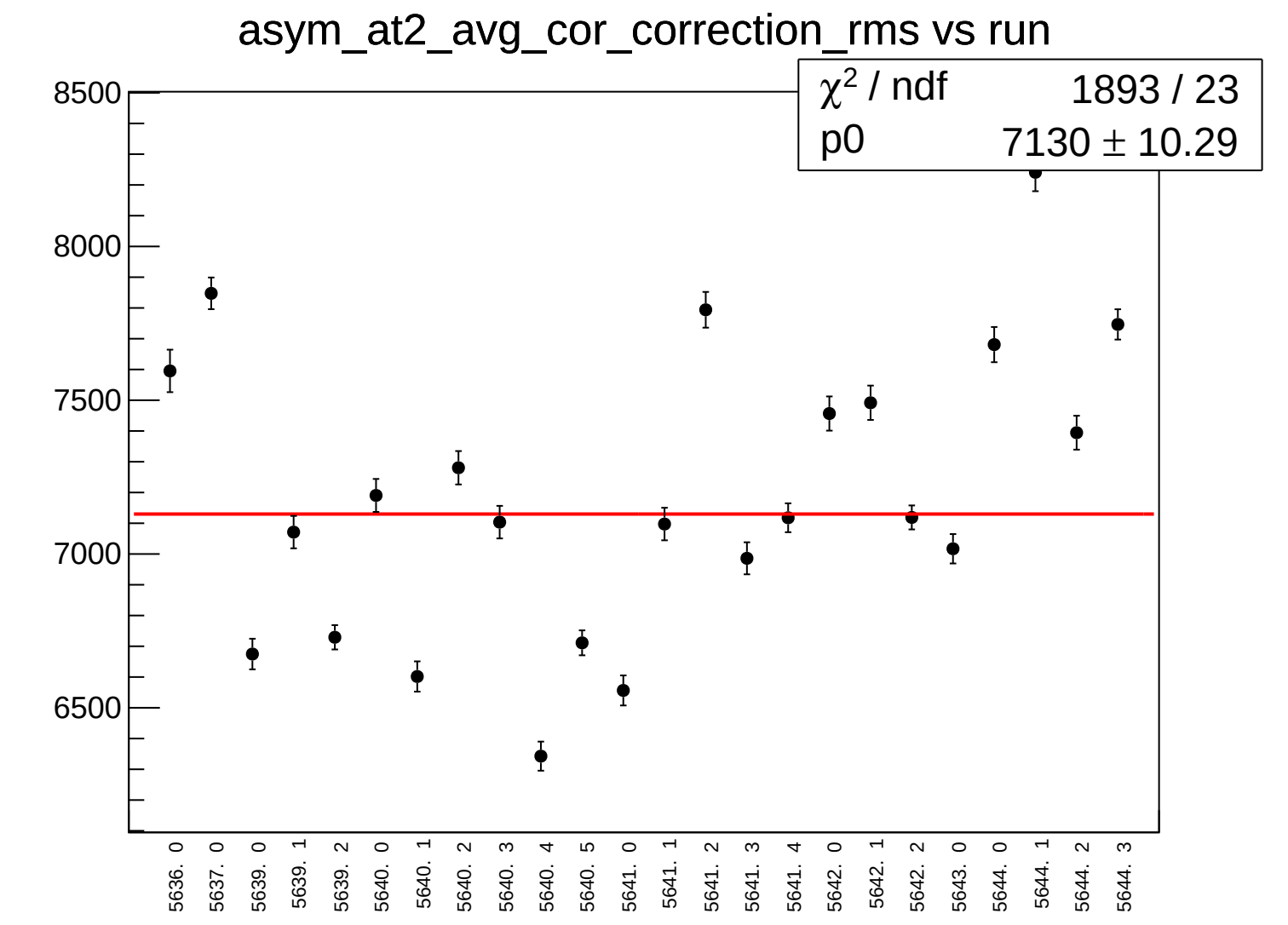

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 1894 / 23
p0 7130 ± 10.29
8500
8000
7500
7000
6500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

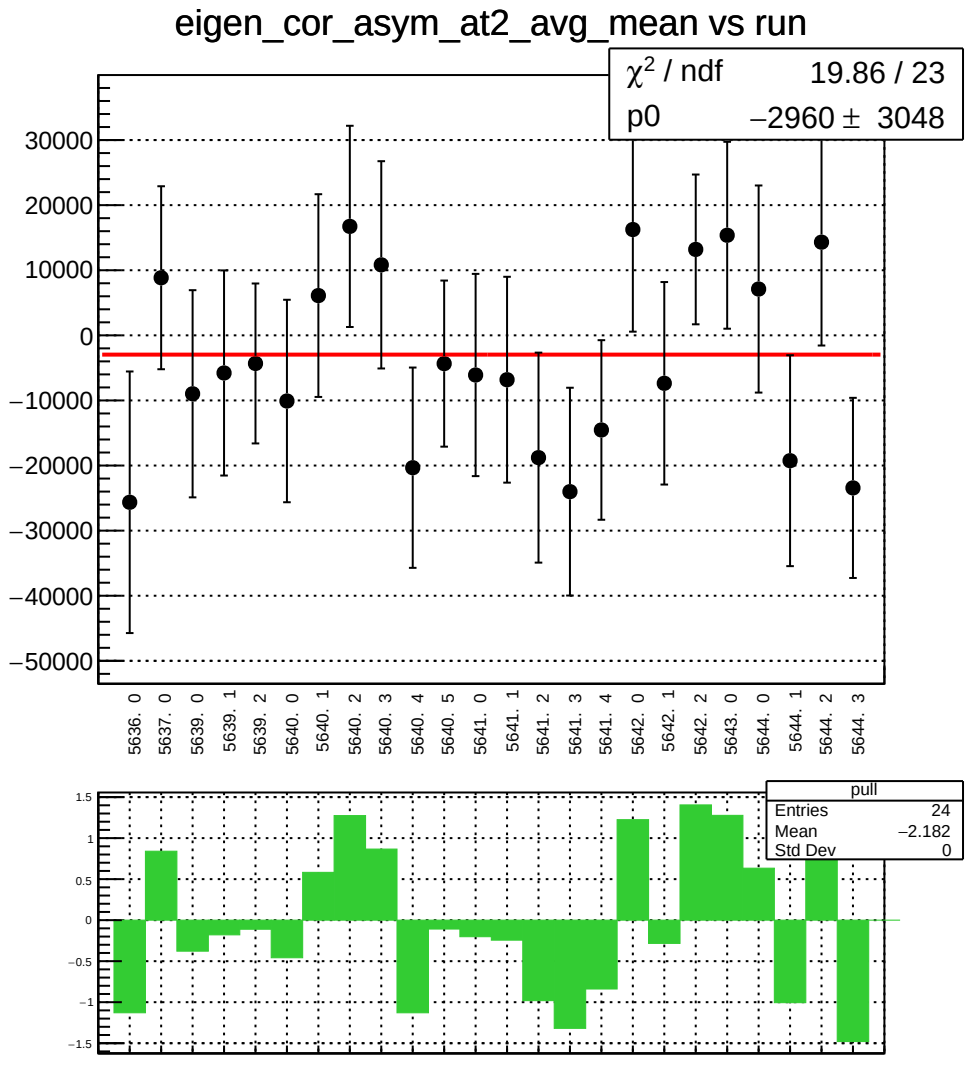

cor_asym_at2_avg_mean vs run
χ² / ndf 19.86 / 23
p0 −2960 ± 3048
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −2.182
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

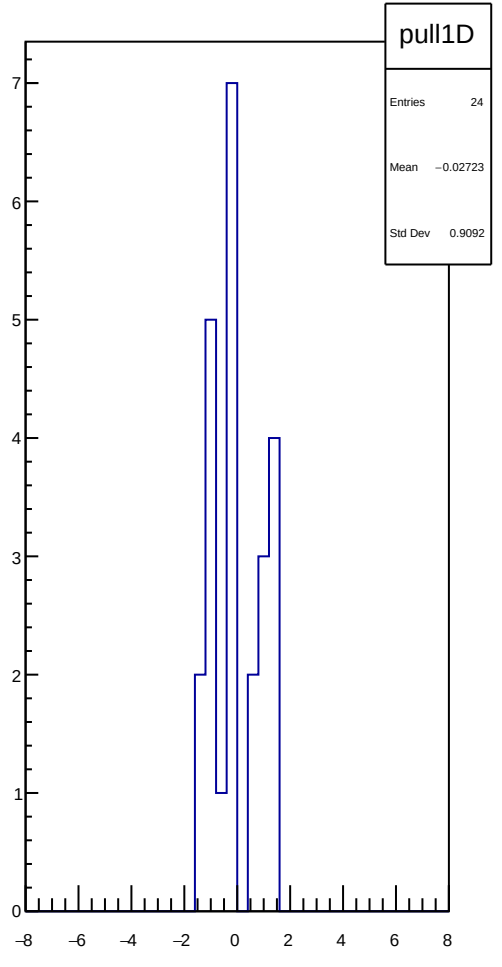

pull1D
Entries 24
Mean −0.02723
Std Dev 0.9092
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

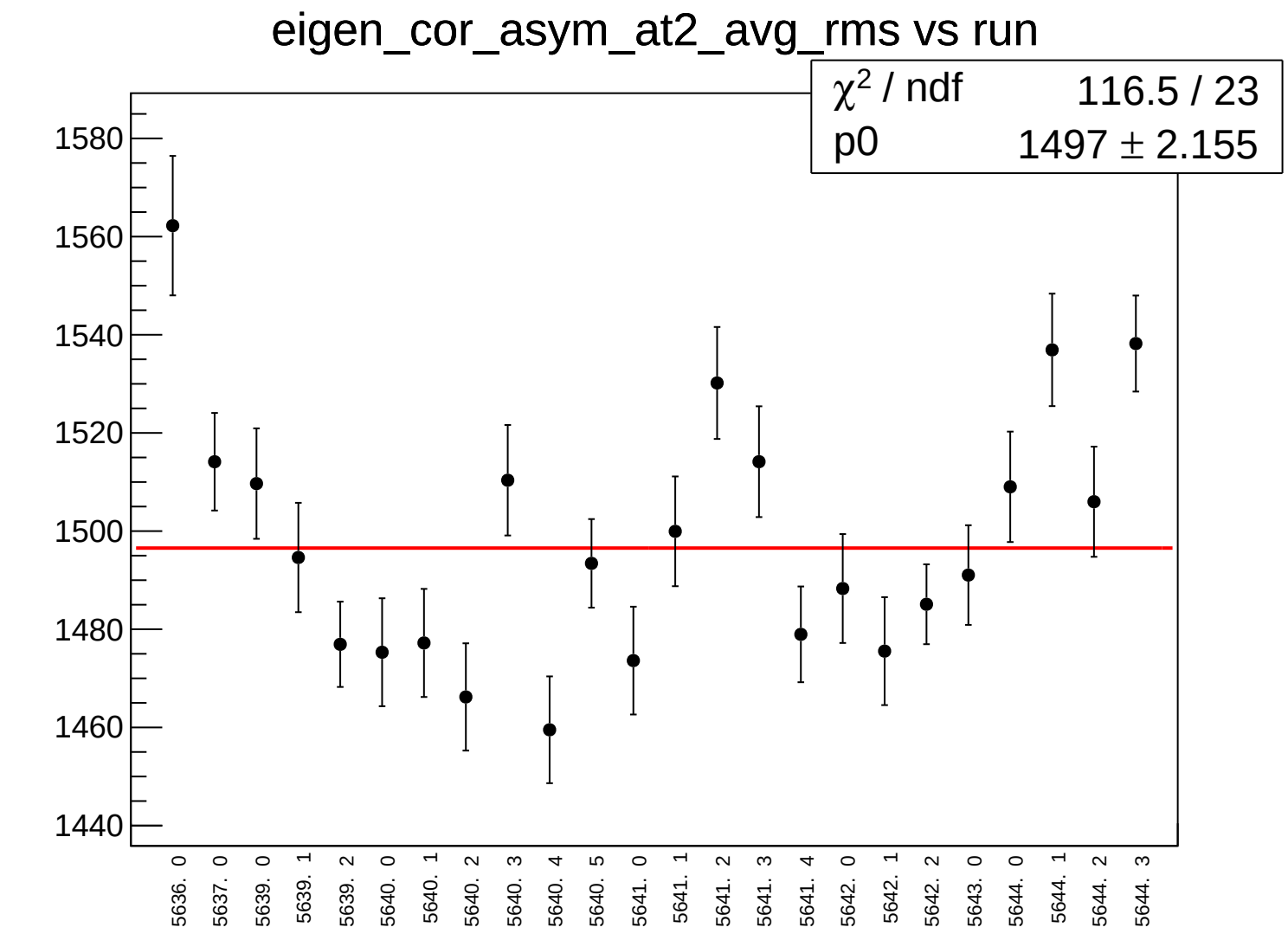

cor_asym_at2_avg_rms vs run
χ² / ndf 116.5 / 23
p0 1497 ± 2.155
1580
1560
1540
1520
1500
1480
1460
1440
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

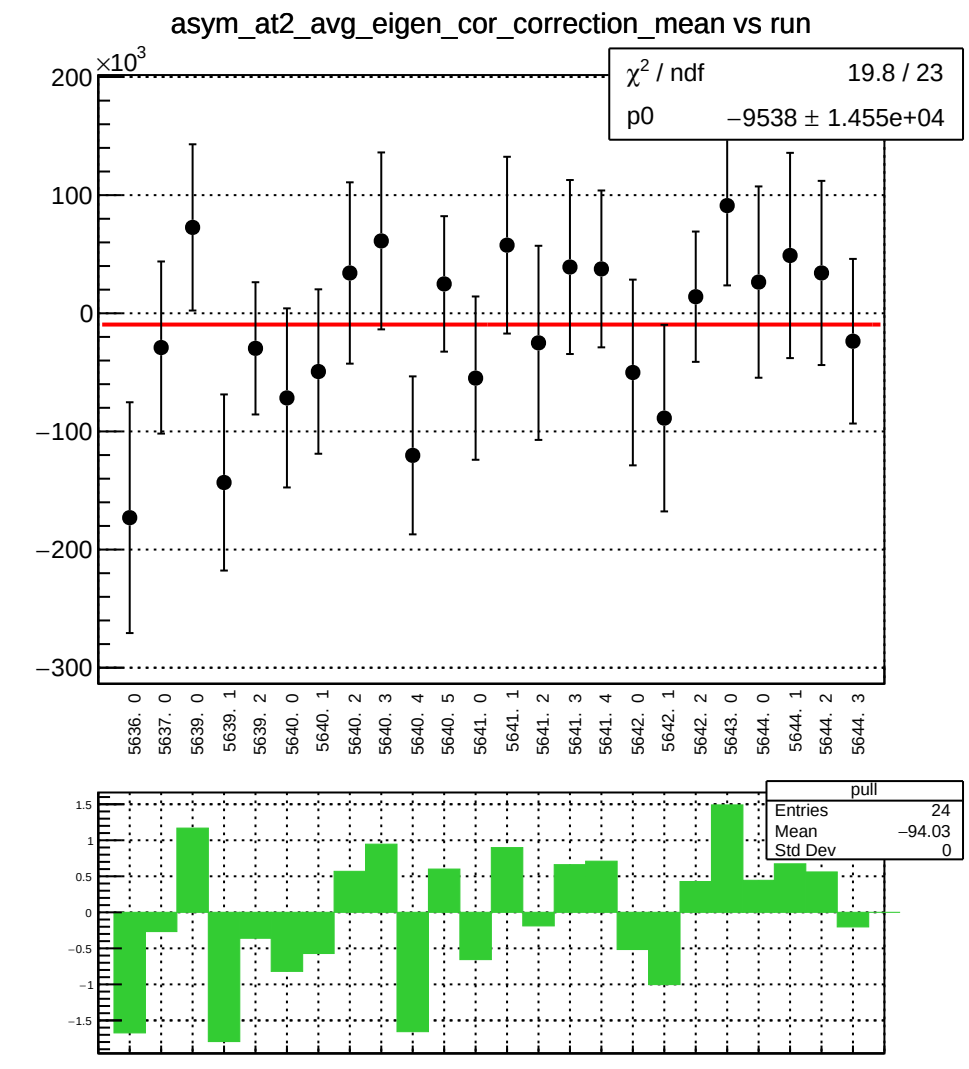

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 19.8 / 23
p0 −9538 ± 1.455e+04
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −94.03
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.02326
Std Dev 0.9079
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

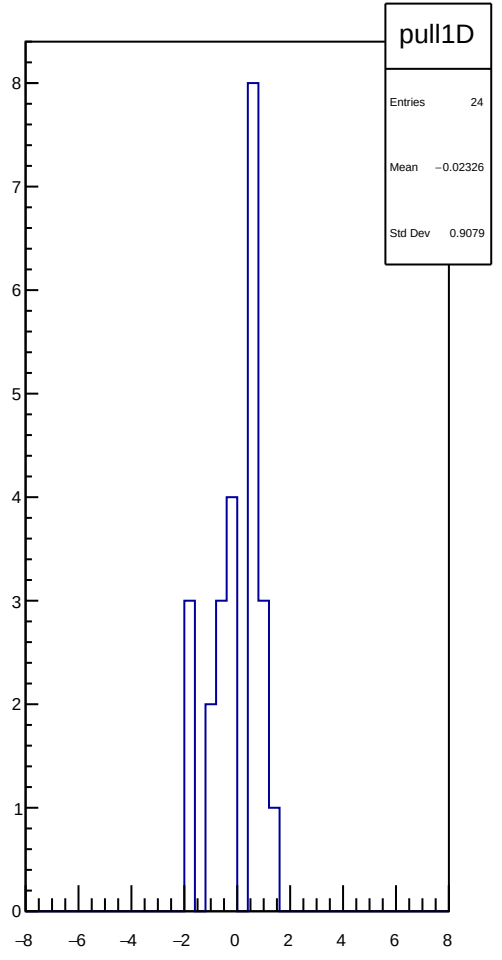

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 1893 / 23
p0 7130 ± 10.29
8500
8000
7500
7000
6500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

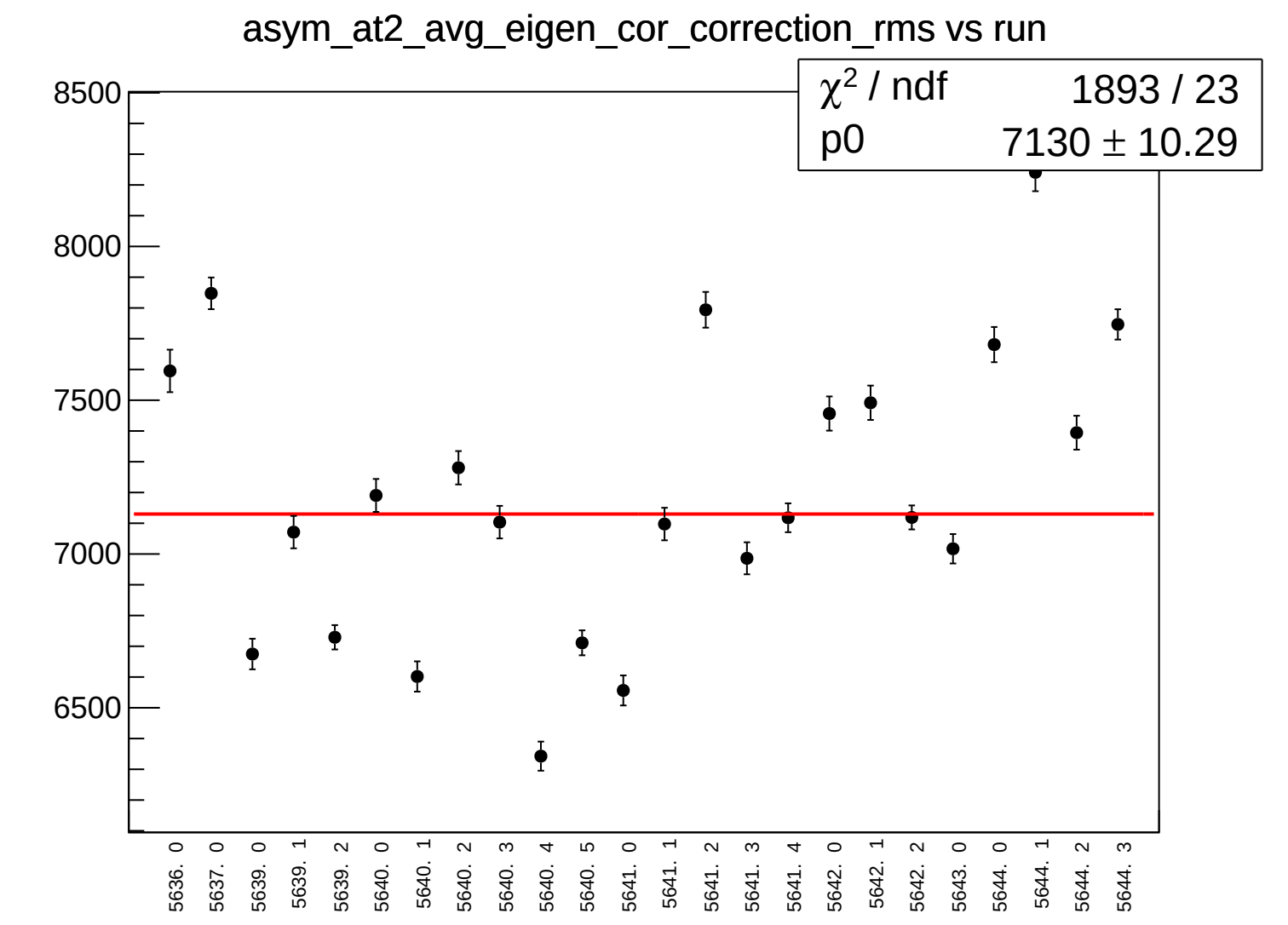

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 19.86 / 23
p0 −2960 ± 3048
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −2.182
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

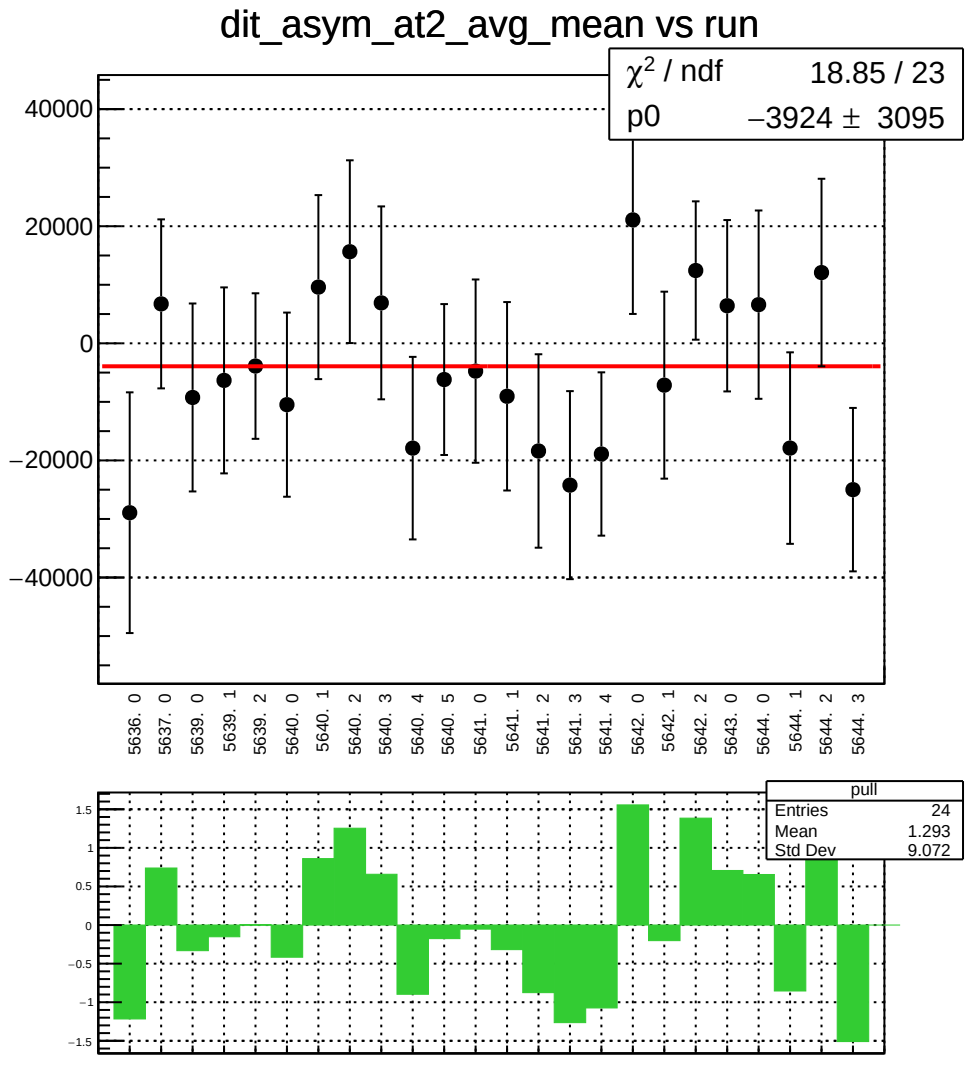

pull1D
Entries 24
Mean −0.02723
Std Dev 0.9092
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

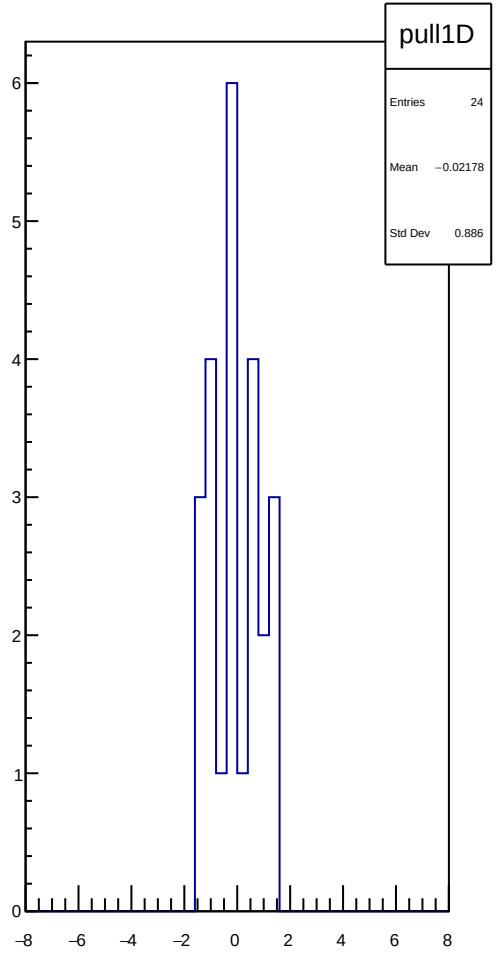

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 116.5 / 23
p0 1497 ± 2.155
1580
1560
1540
1520
1500
1480
1460
1440
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

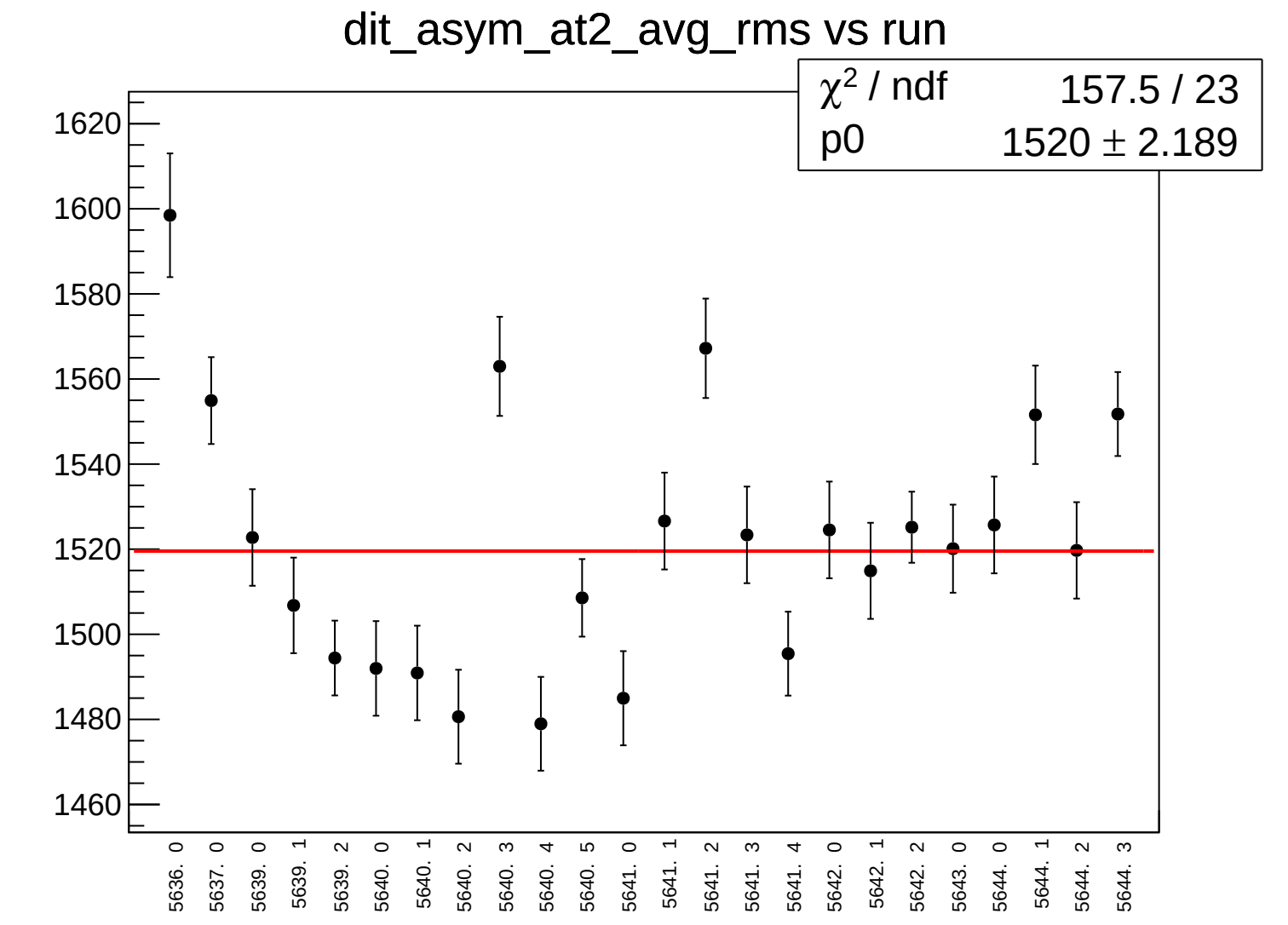

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 19.8 / 23
p0 −9538 ± 1.455e+04
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −94.03
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

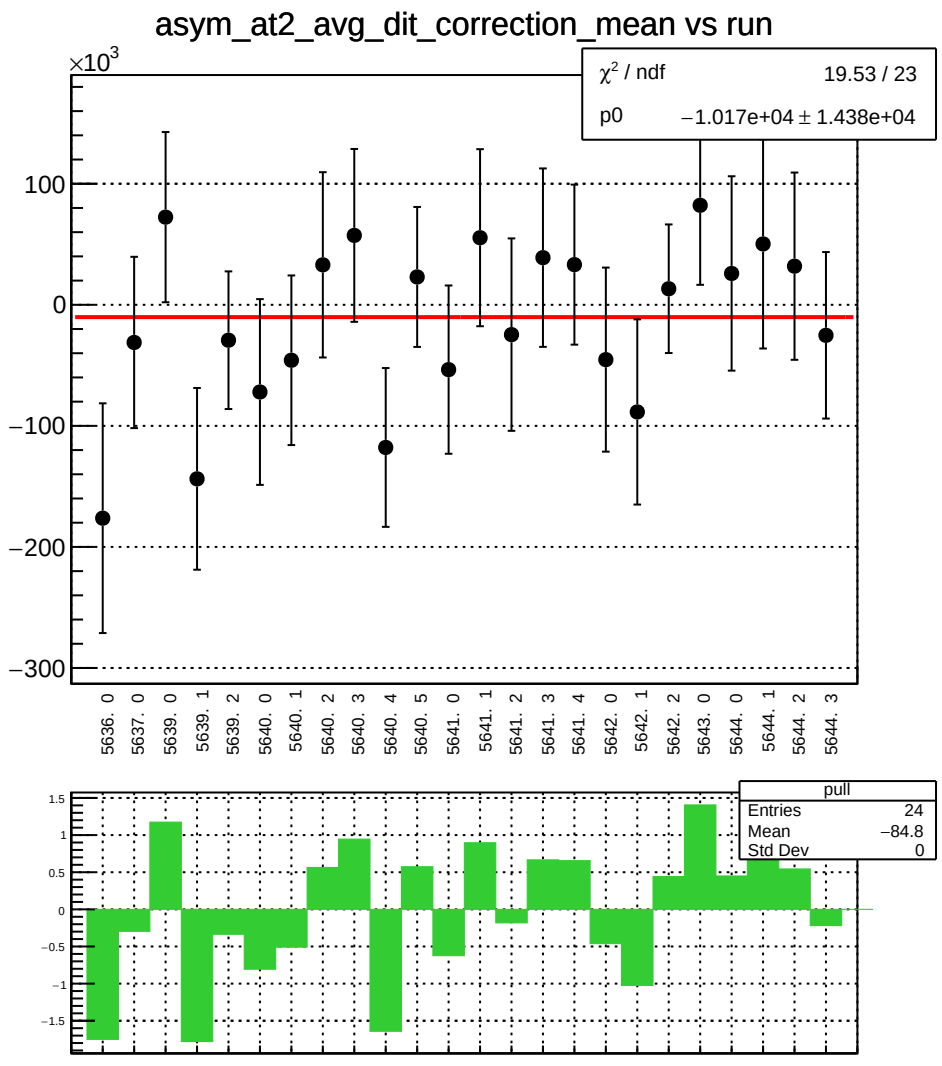

pull1D
Entries 24
Mean −0.02326
Std Dev 0.9079
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

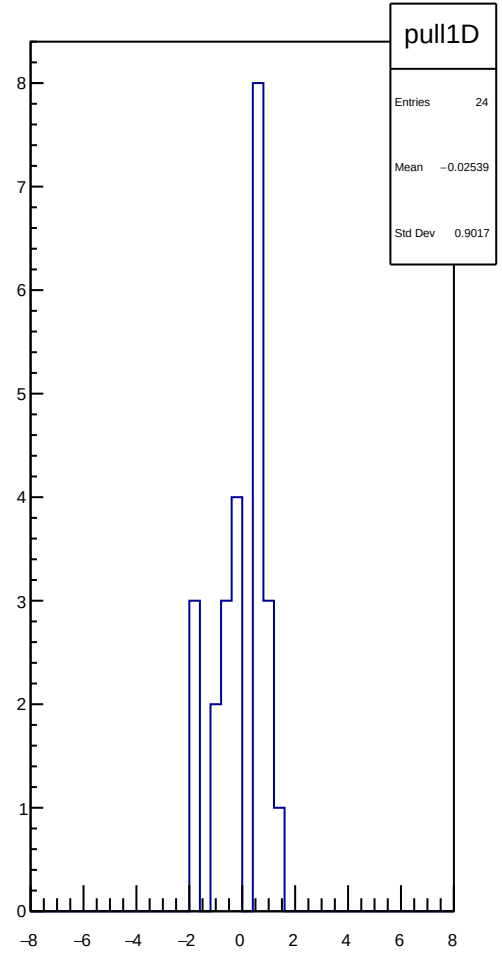

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1893 / 23
p0 7130 ± 10.29
8500
8000
7500
7000
6500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

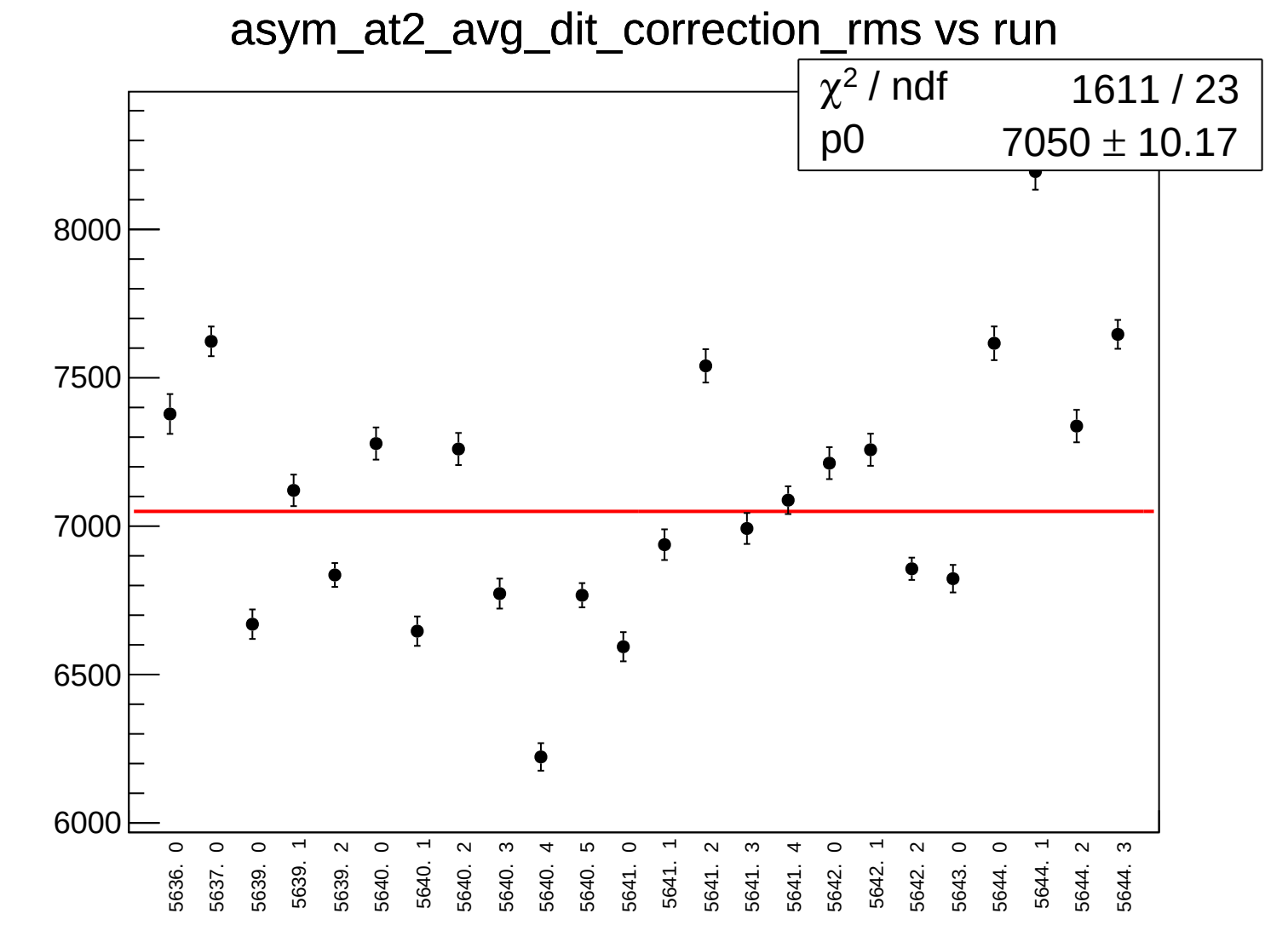

dit_asym_at2_avg_mean vs run
χ² / ndf 18.85 / 23
p0 −3924 ± 3095
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 1.293
Std Dev 9.072
1.5
1
0.5
0
−0.5
−1
−1.5

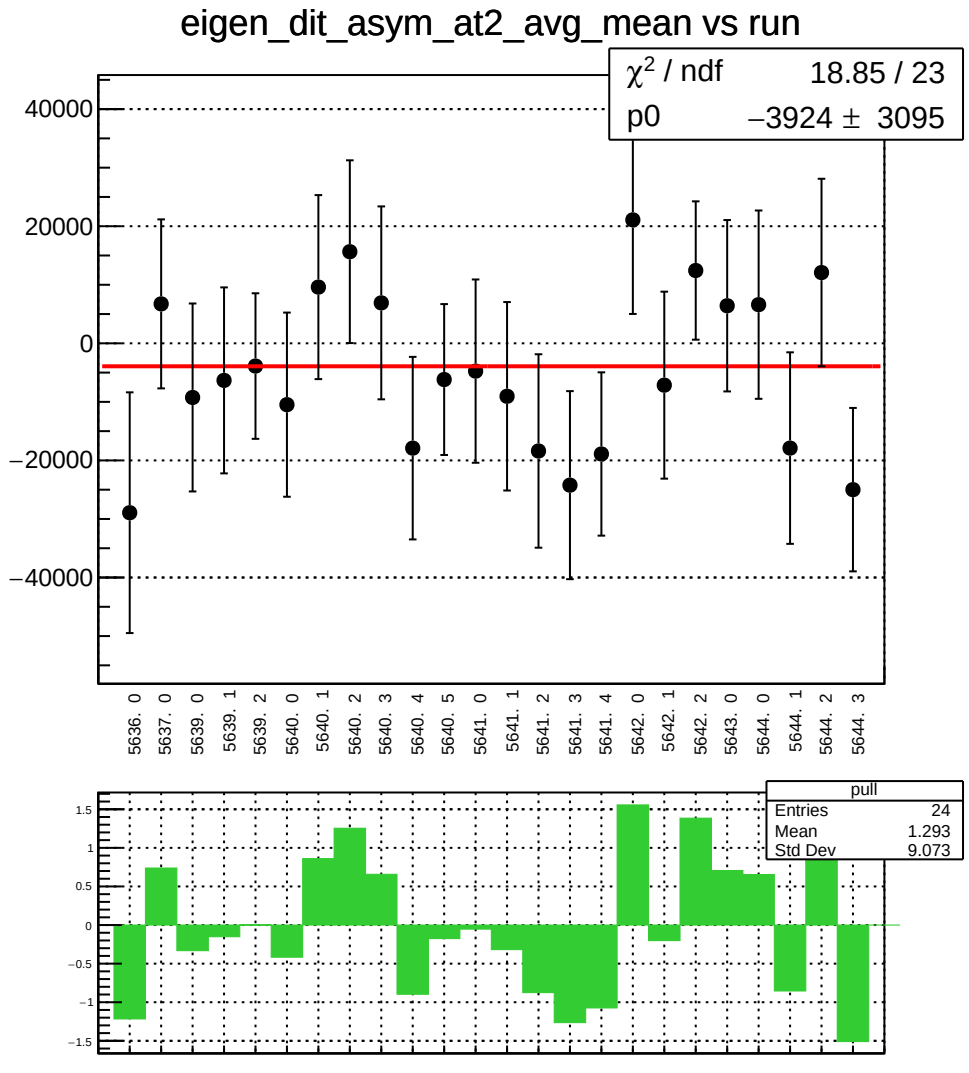

pull1D
Entries 24
Mean −0.02178
Std Dev 0.886
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

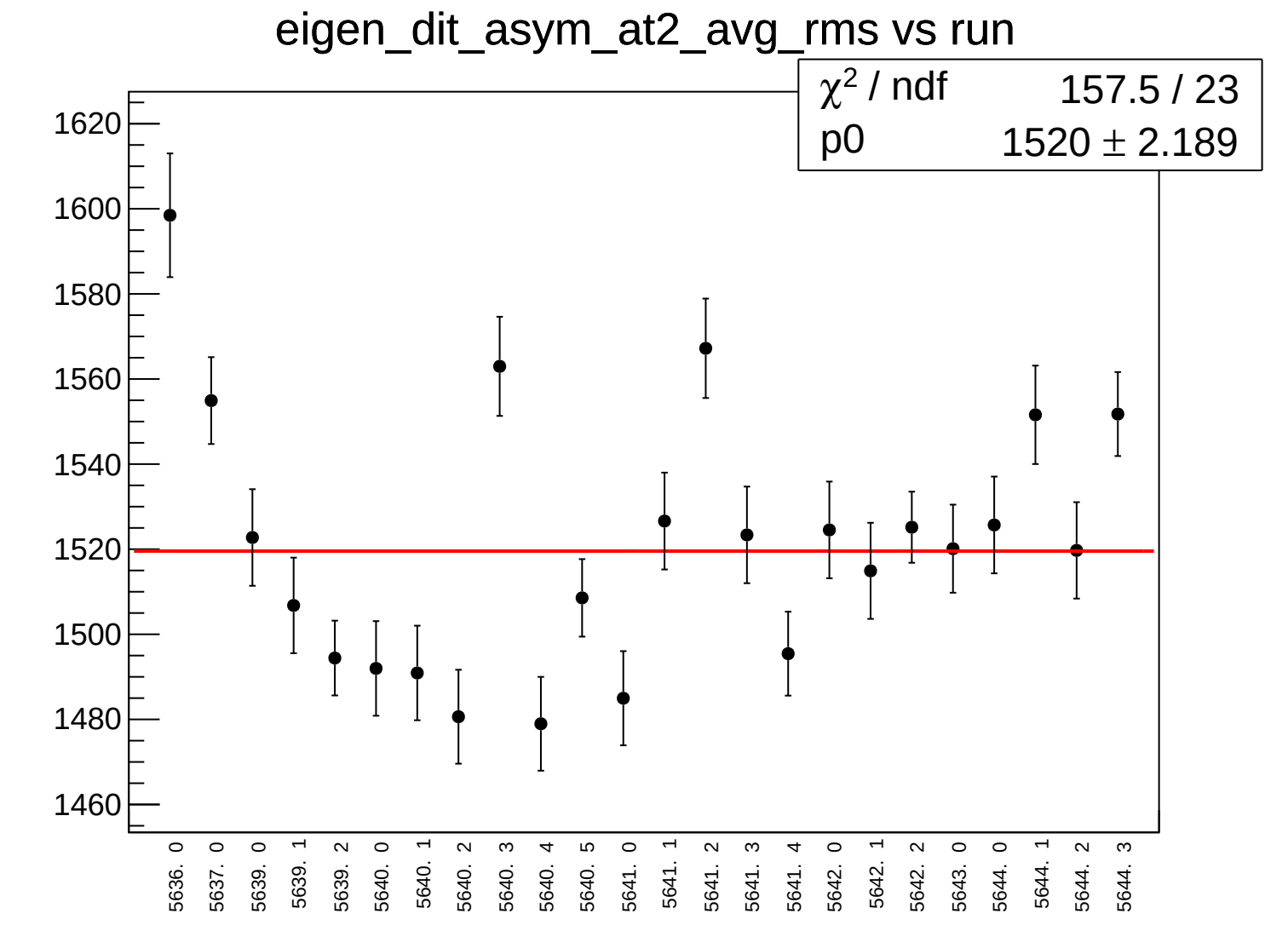

dit_asym_at2_avg_rms vs run
χ² / ndf 157.5 / 23
p0 1520 ± 2.189
1620
1600
1580
1560
1540
1520
1500
1480
1460
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

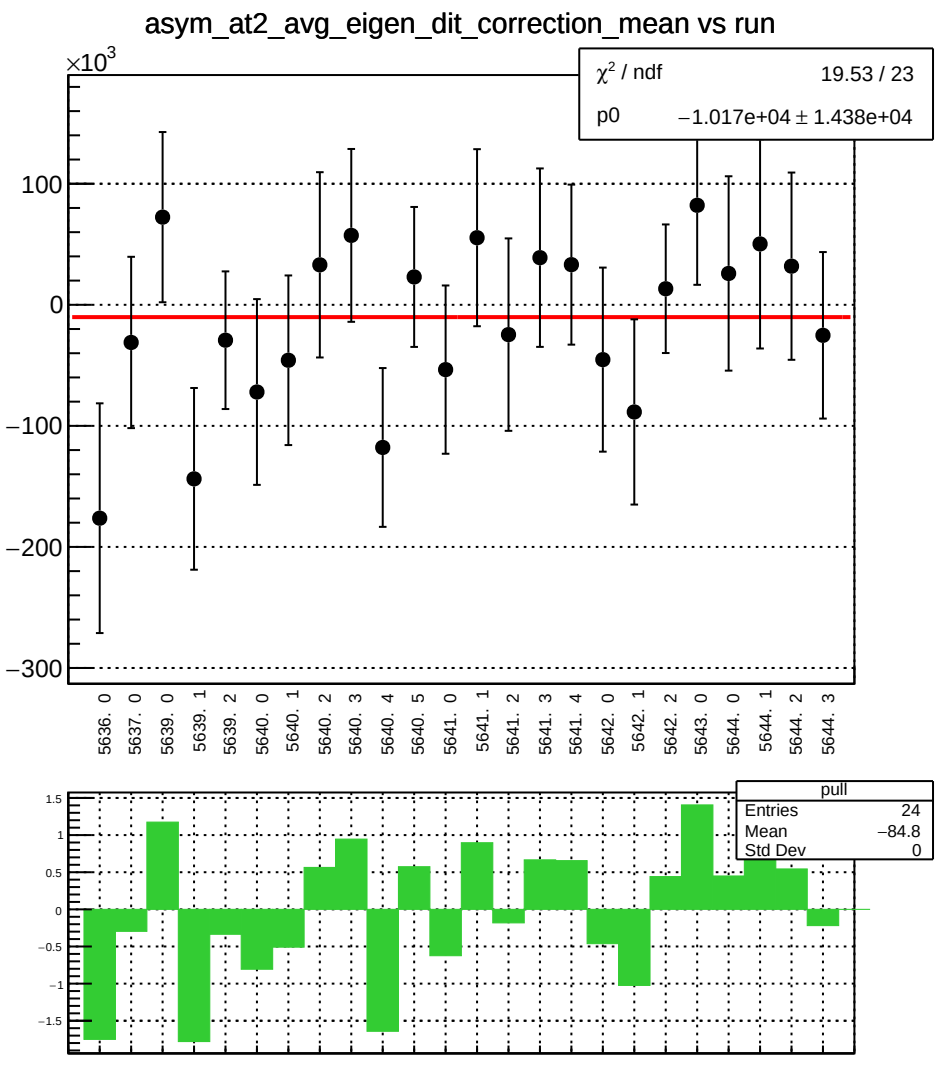

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 19.53 / 23
p0 −1.017e+04 ± 1.438e+04
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −84.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

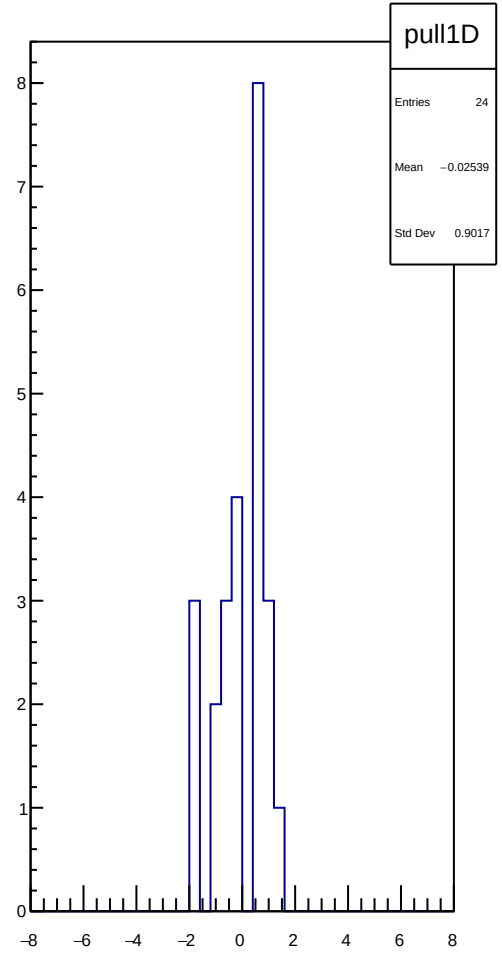

pull1D
Entries 24
Mean −0.02539
Std Dev 0.9017
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

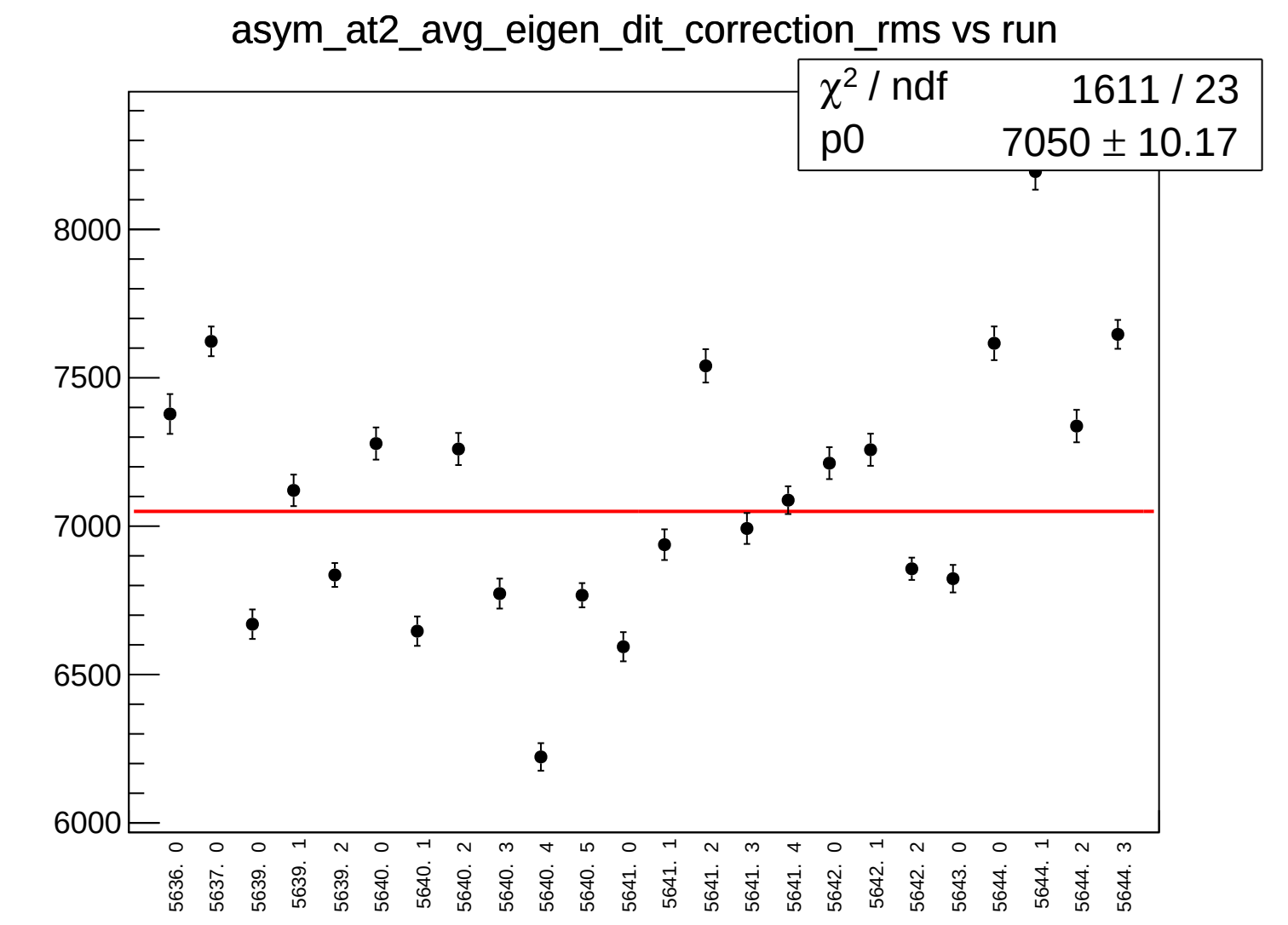

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 1611 / 23
p0 7050 ± 10.17
8000
7500
7000
6500
6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

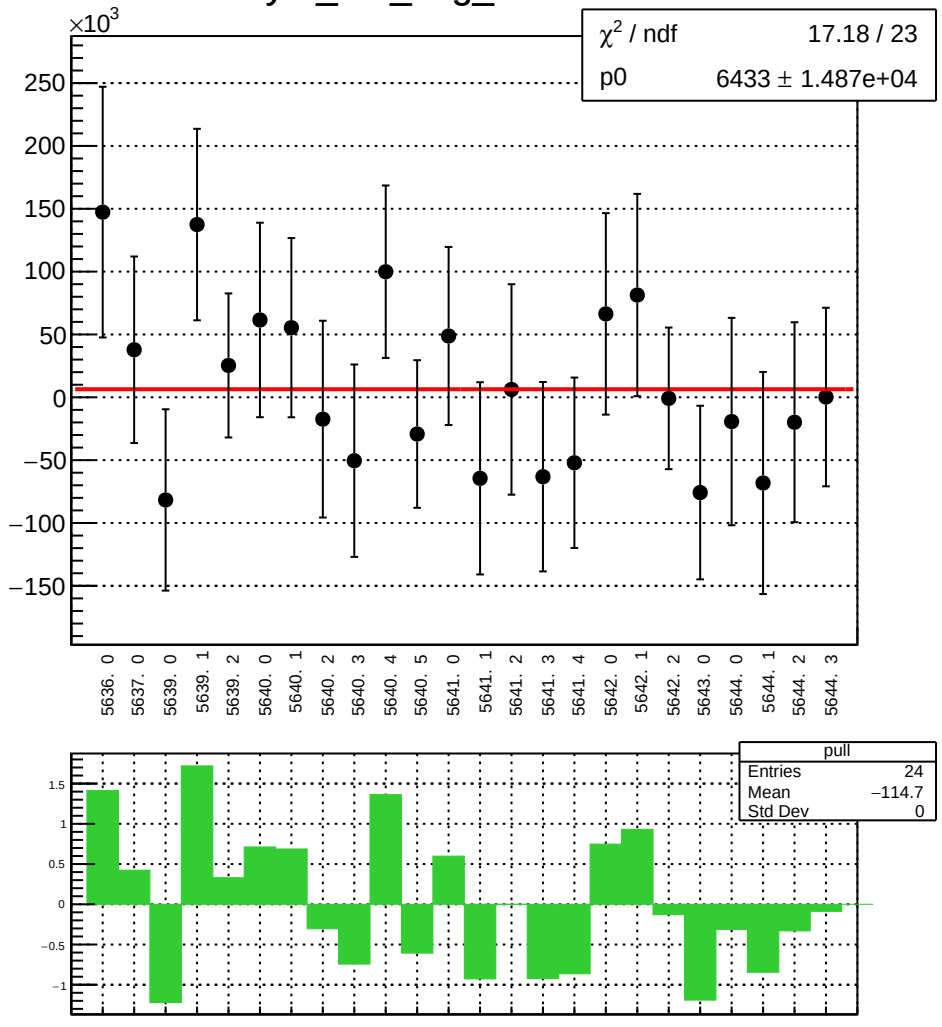

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 18.85 / 23
p0 −3924 ± 3095
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 1.293
Std Dev 9.073
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.02178
Std Dev 0.886
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

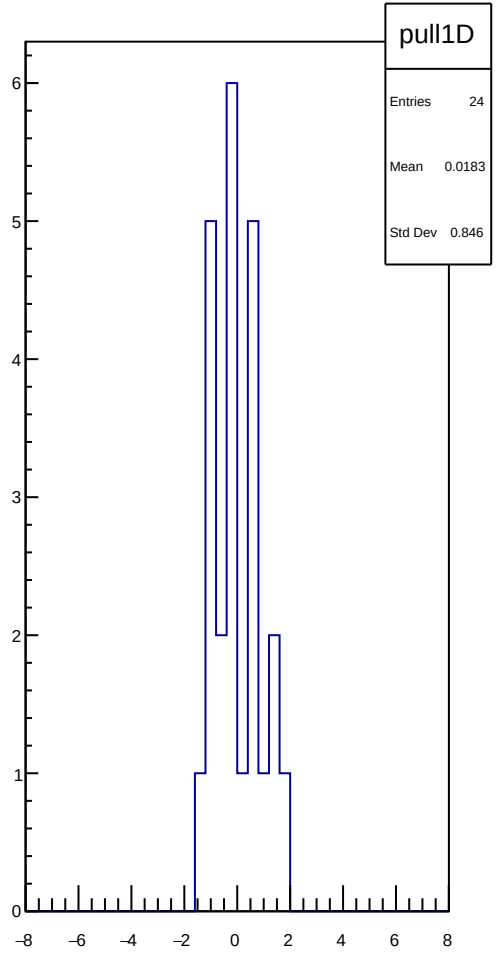

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 157.5 / 23
p0 1520 ± 2.189
1620
1600
1580
1560
1540
1520
1500
1480
1460
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

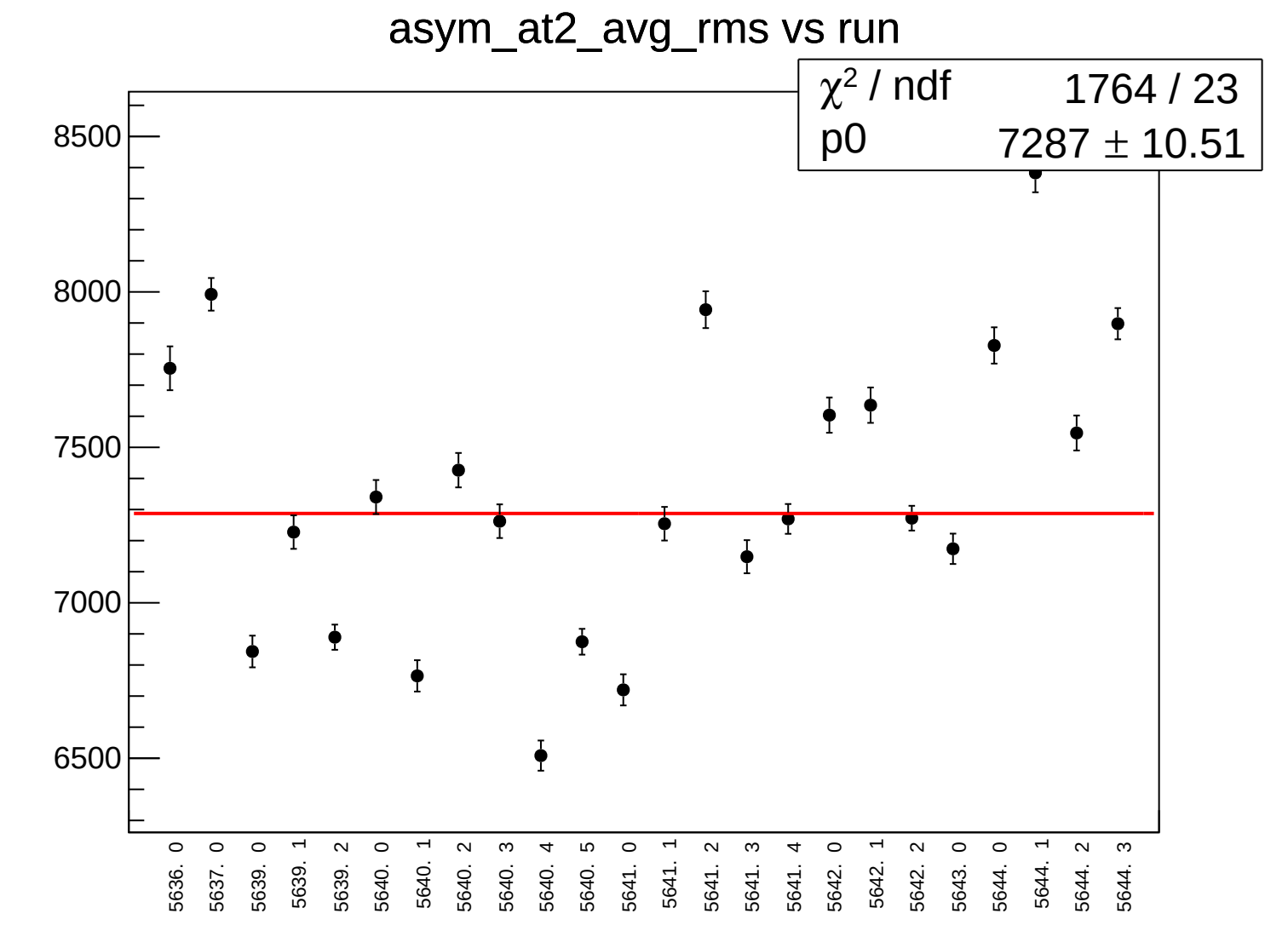

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 19.53 / 23
p0 −1.017e+04 ± 1.438e+04
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −84.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

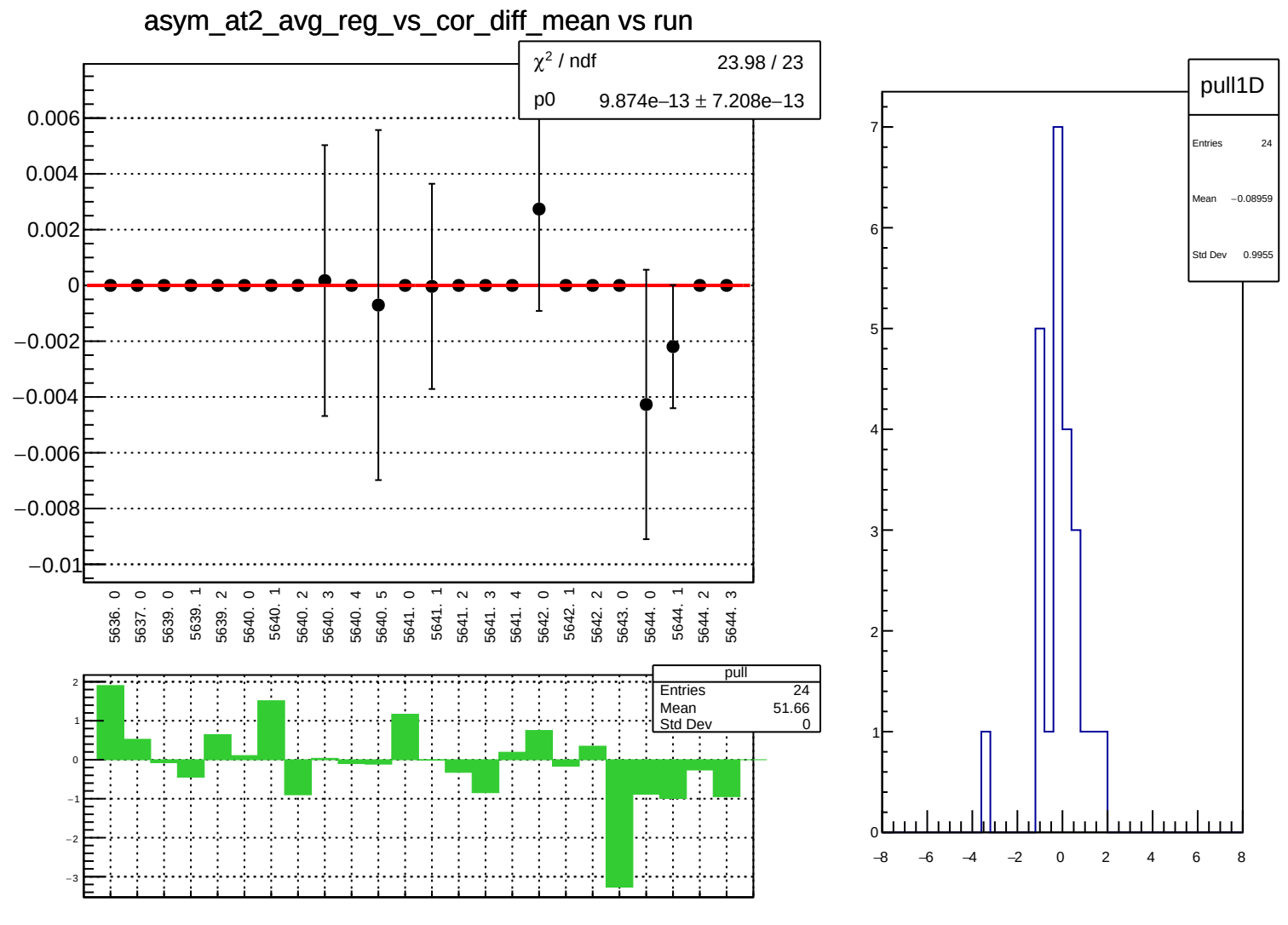

pull1D
Entries 24
Mean −0.02539
Std Dev 0.9017
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

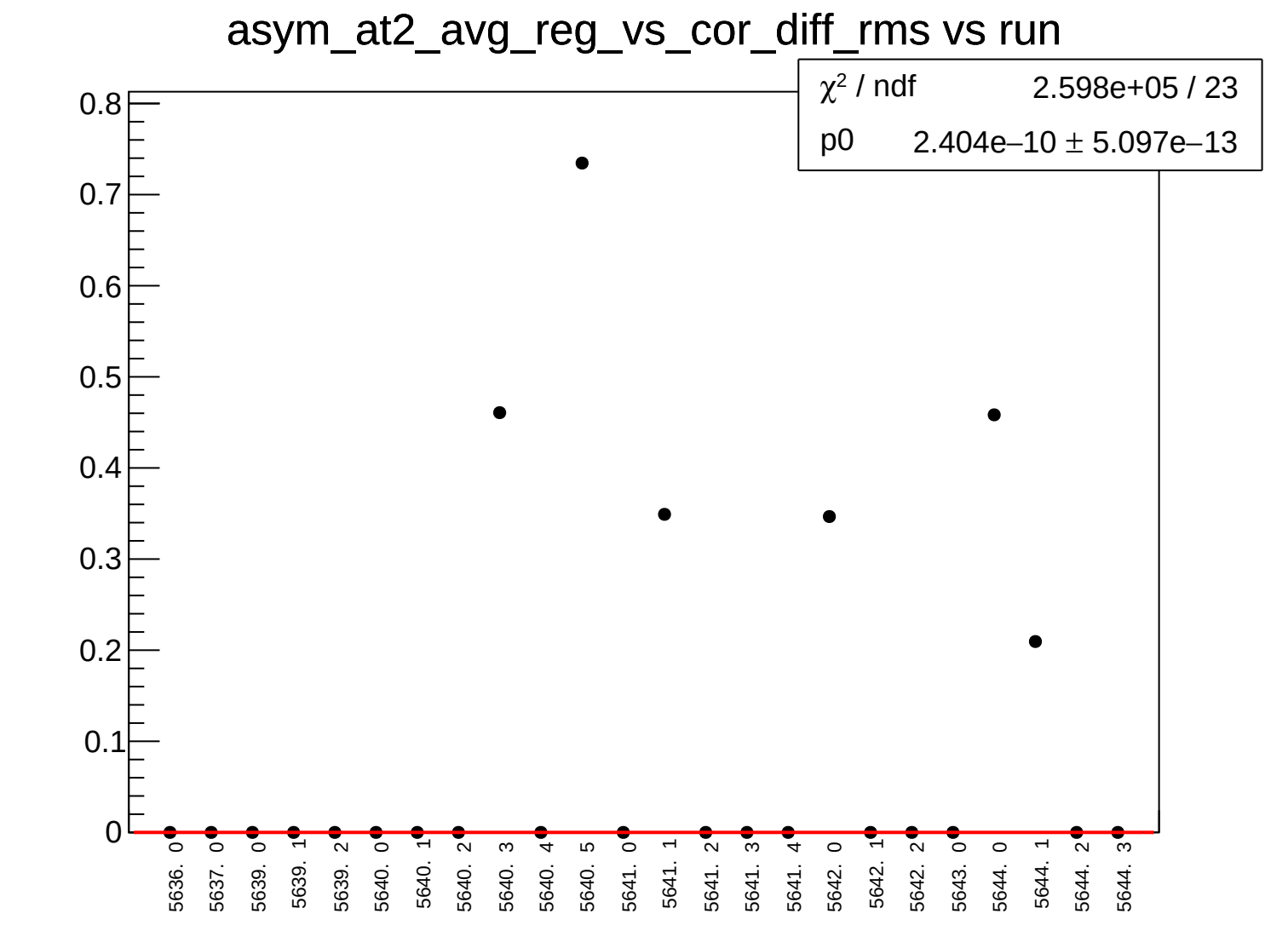

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1611 / 23
p0 7050 ± 10.17
8000
7500
7000
6500
6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

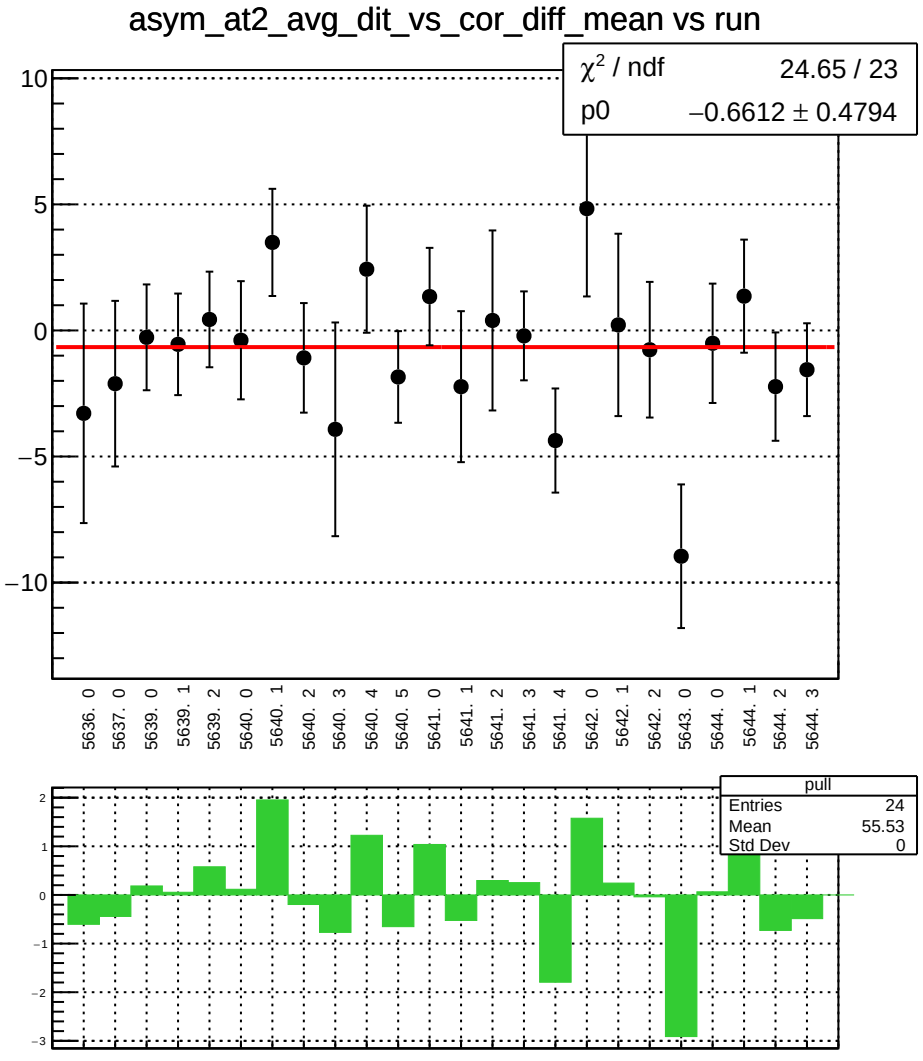

asym_at2_avg_mean vs run
×10^3
χ² / ndf 17.18 / 23
p0 6433 ± 1.487e+04
250
200
150
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −114.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1

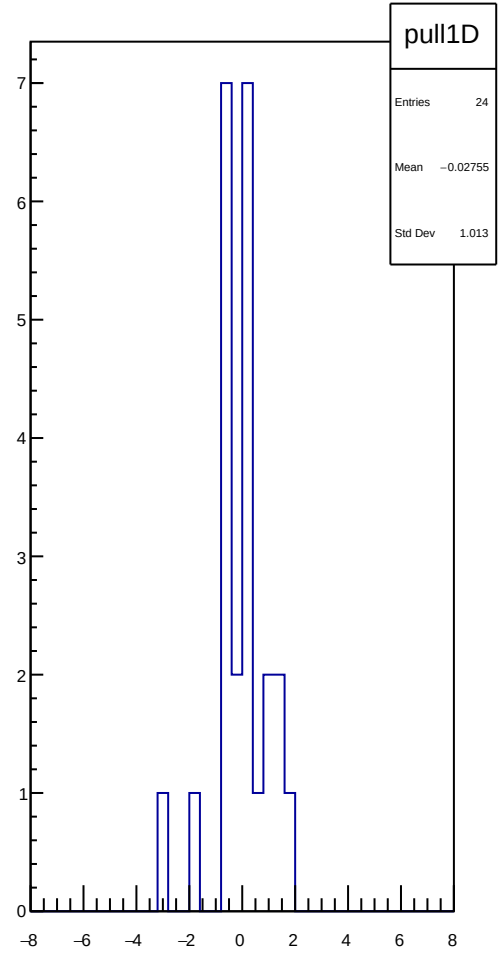

pull1D
Entries 24
Mean 0.0183
Std Dev 0.846
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

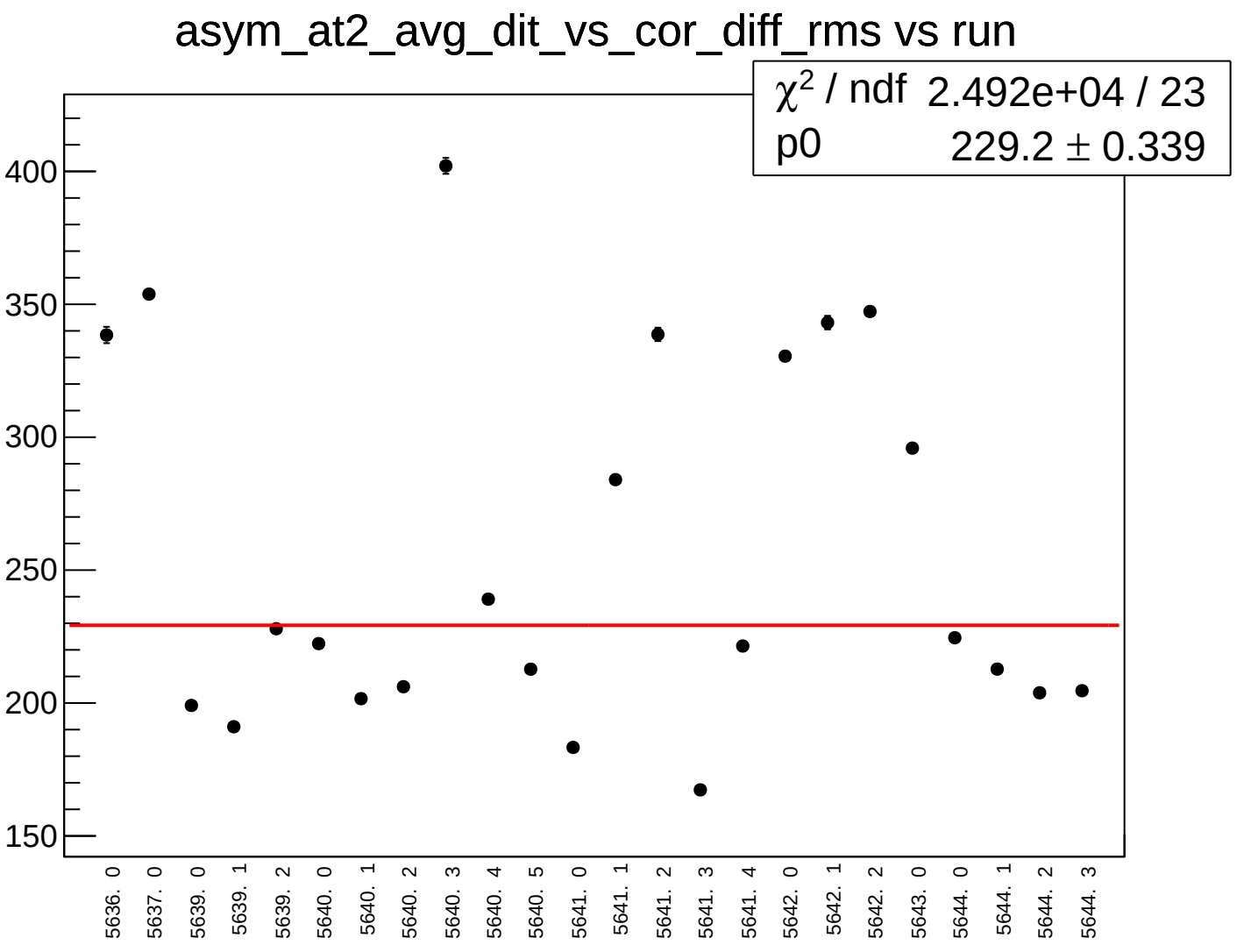

asym_at2_avg_rms vs run
χ² / ndf 1764 / 23
p0 7287 ± 10.51
8500
8000
7500
7000
6500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

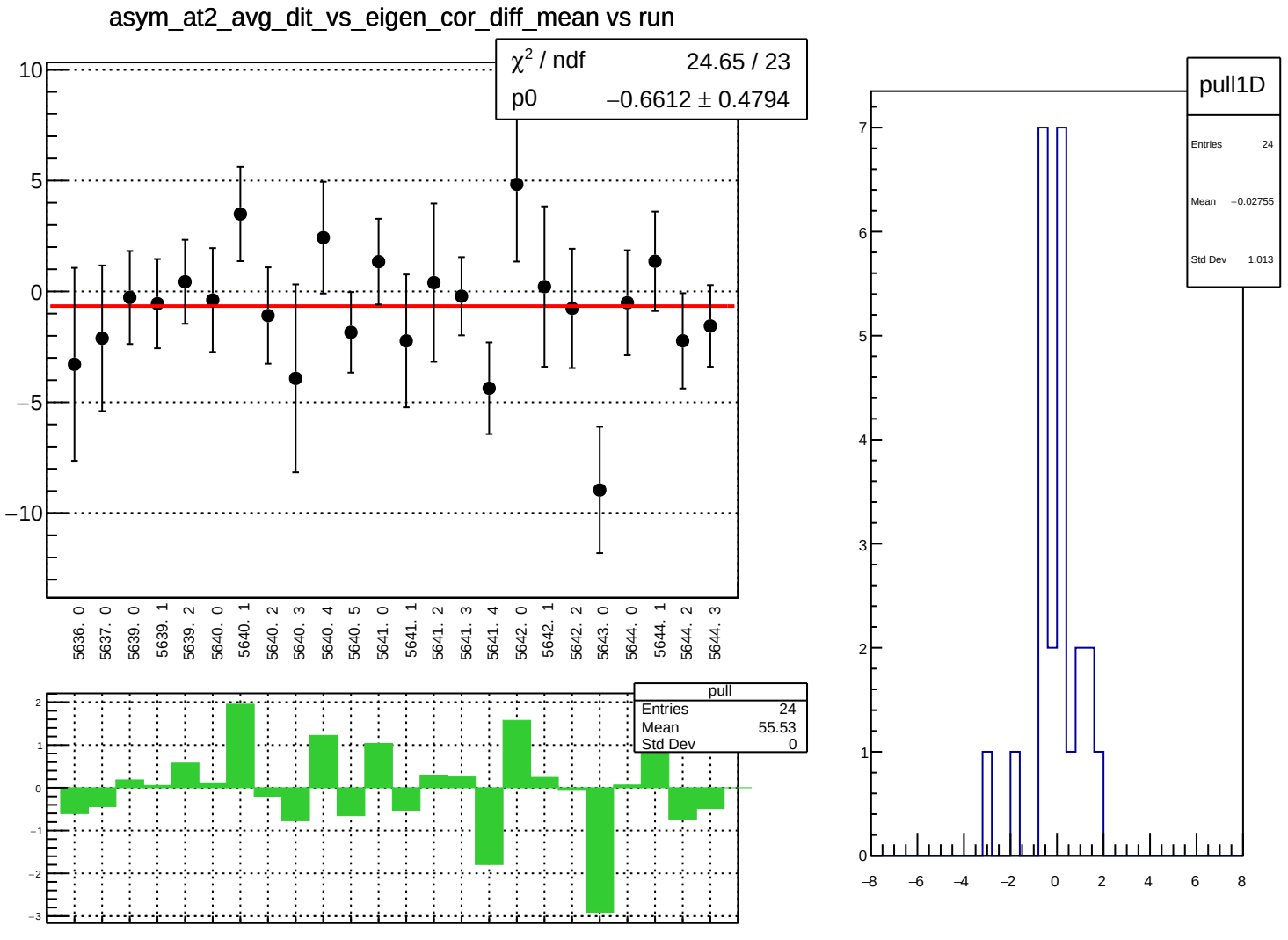

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 23.98 / 23
p0 9.874e−13 ± 7.208e−13
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 51.66
Std Dev 0
pull1D
Entries 24
Mean −0.08959
Std Dev 0.9955

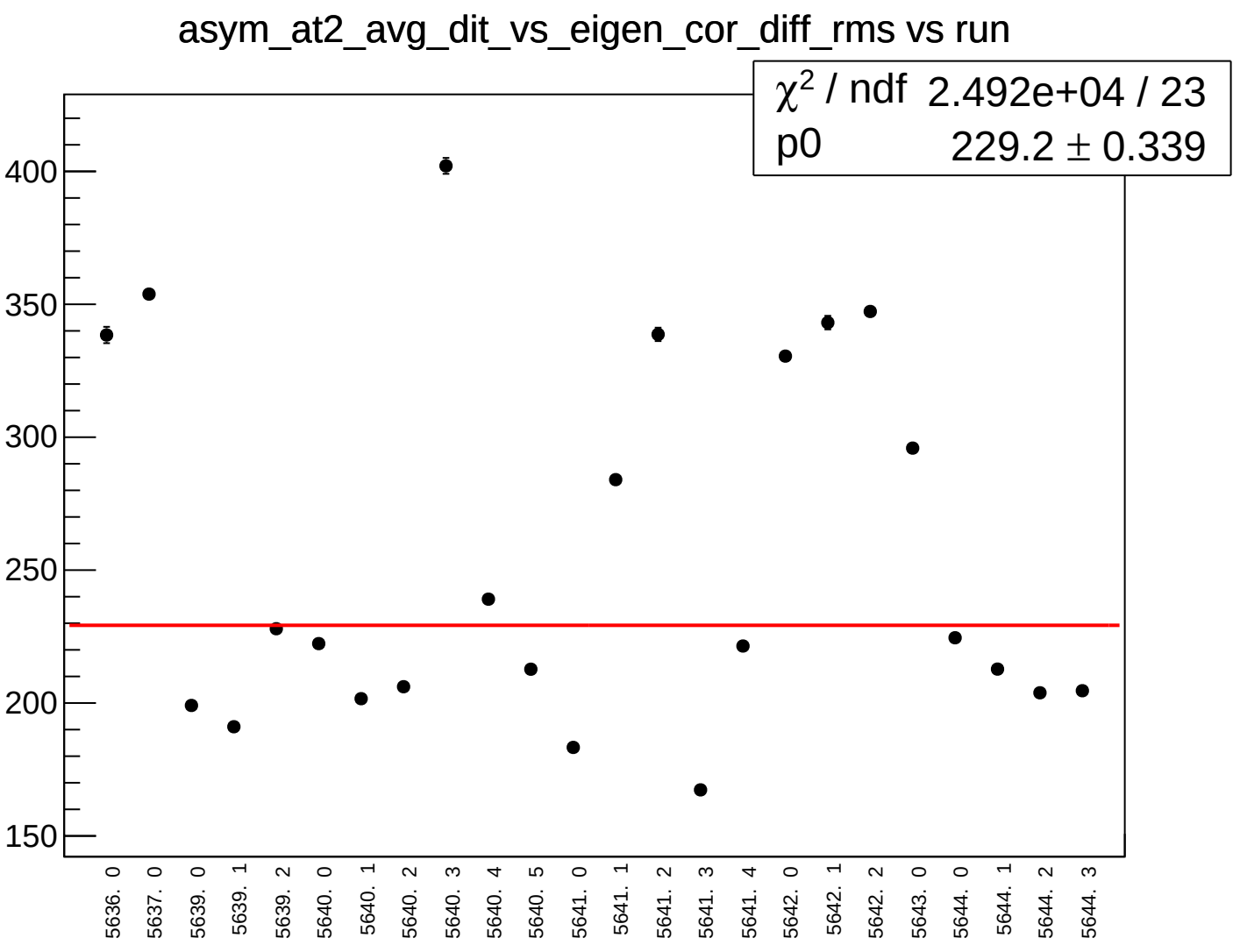

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.598e+05 / 23
p0 2.404e−10 ± 5.097e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

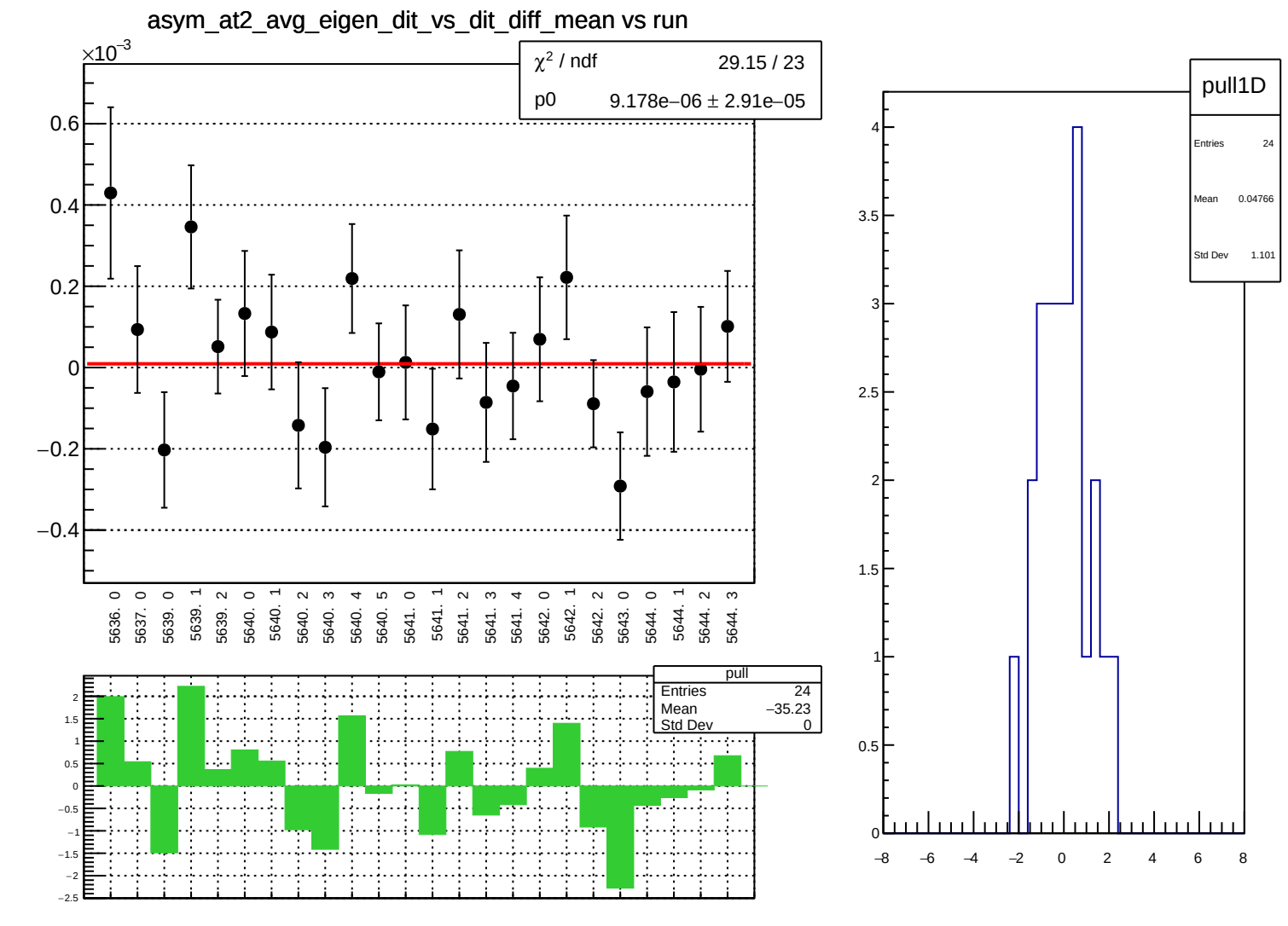

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 24.65 / 23
p0 −0.6612 ± 0.4794
10
5
0
−5
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 55.53
Std Dev 0
2
1
0
−1
−2
−3

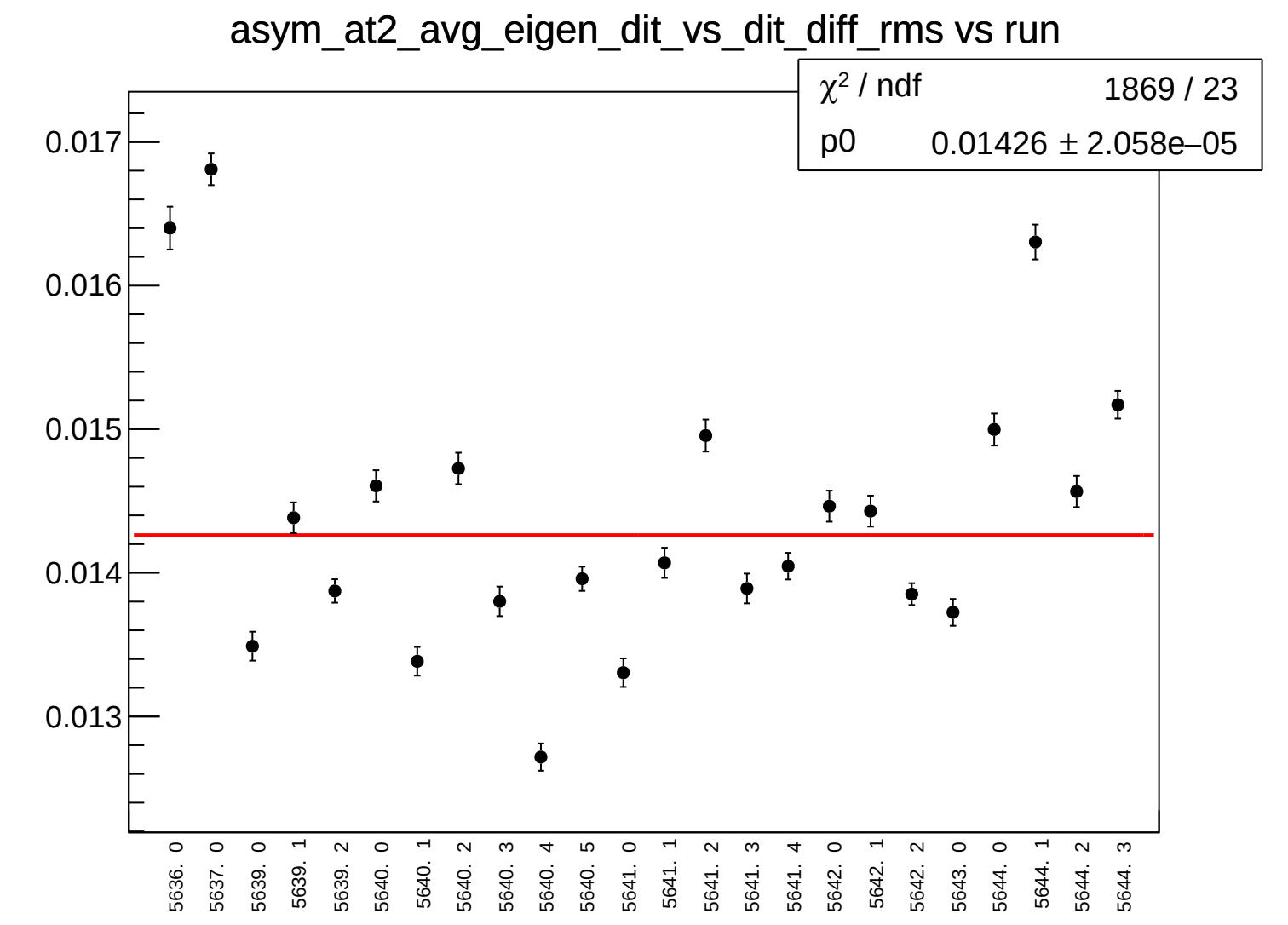

pull1D
Entries 24
Mean −0.02755
Std Dev 1.013
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.492e+04 / 23
p0 229.2 ± 0.339
400
350
300
250
200
150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

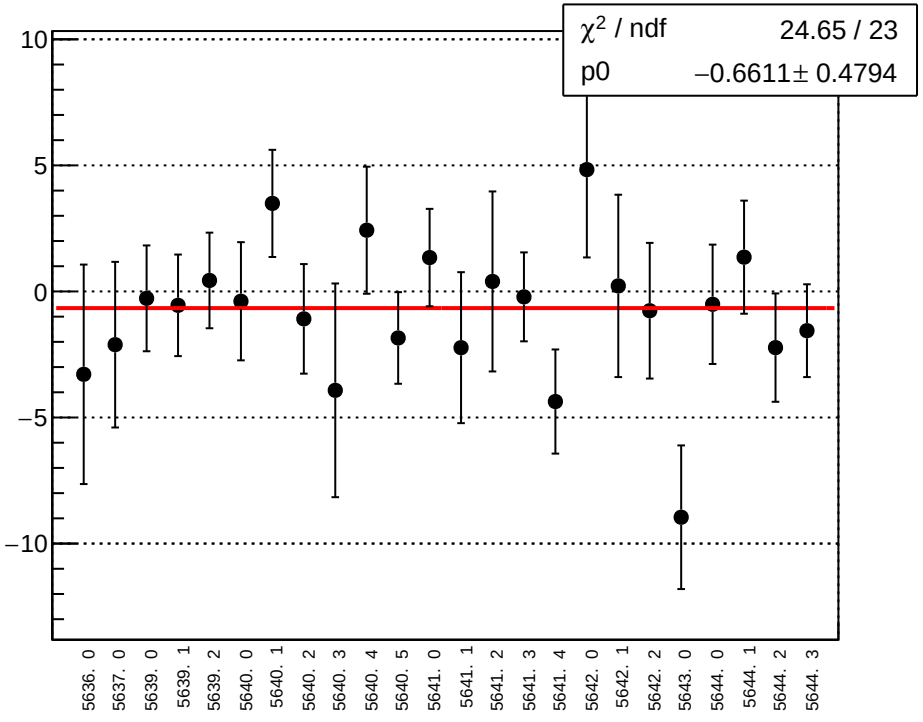

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.65 / 23
p0 −0.6612 ± 0.4794
10
5
0
−5
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 55.53
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean −0.02755
Std Dev 1.013
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

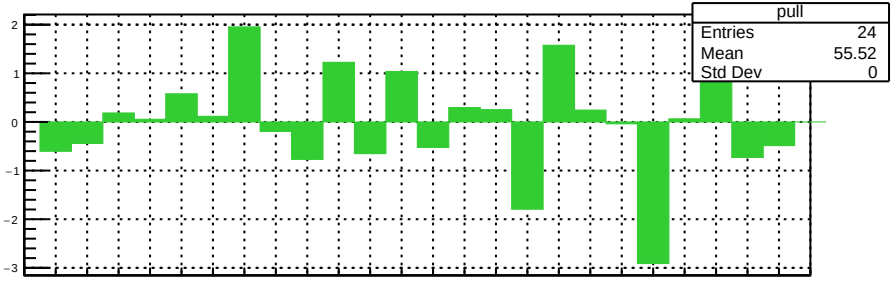

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.492e+04 / 23
p0 229.2 ± 0.339
400
350
300
250
200
150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

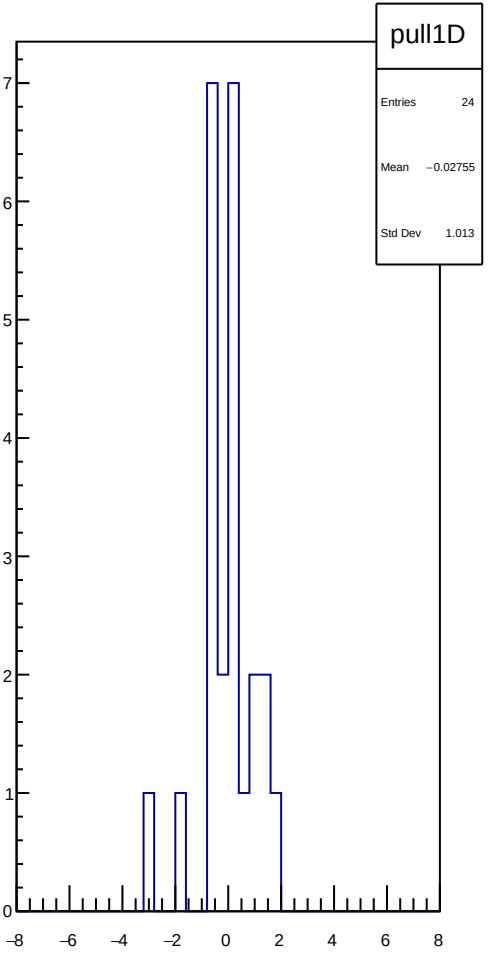

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 29.15 / 23
p0 9.178e−06 ± 2.91e−05
0.6
0.4
0.2
0
−0.2
−0.4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −35.23
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean 0.04766
Std Dev 1.101
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

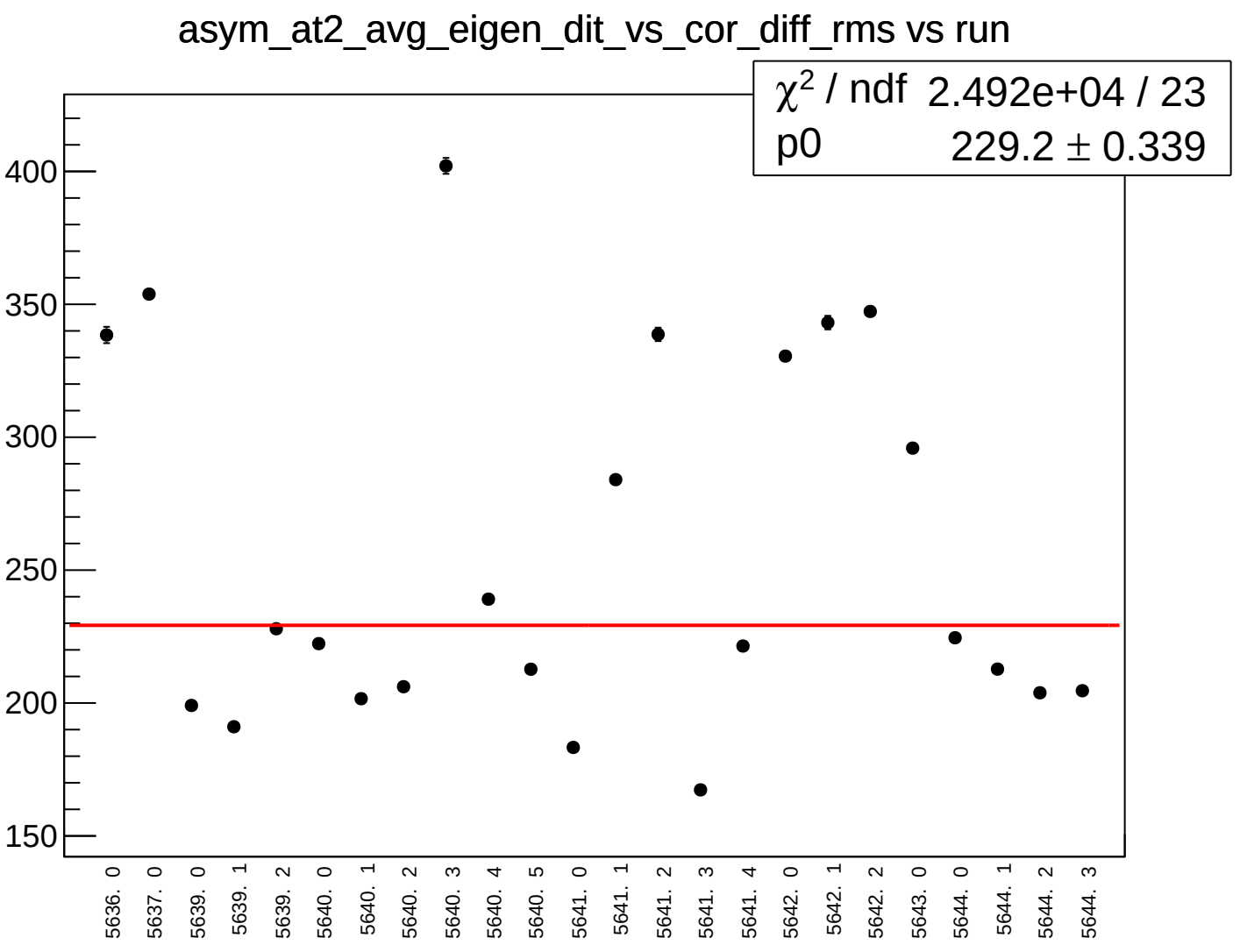

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1869 / 23
p0 0.01426 ± 2.058e–05
0.017
0.016
0.015
0.014
0.013
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

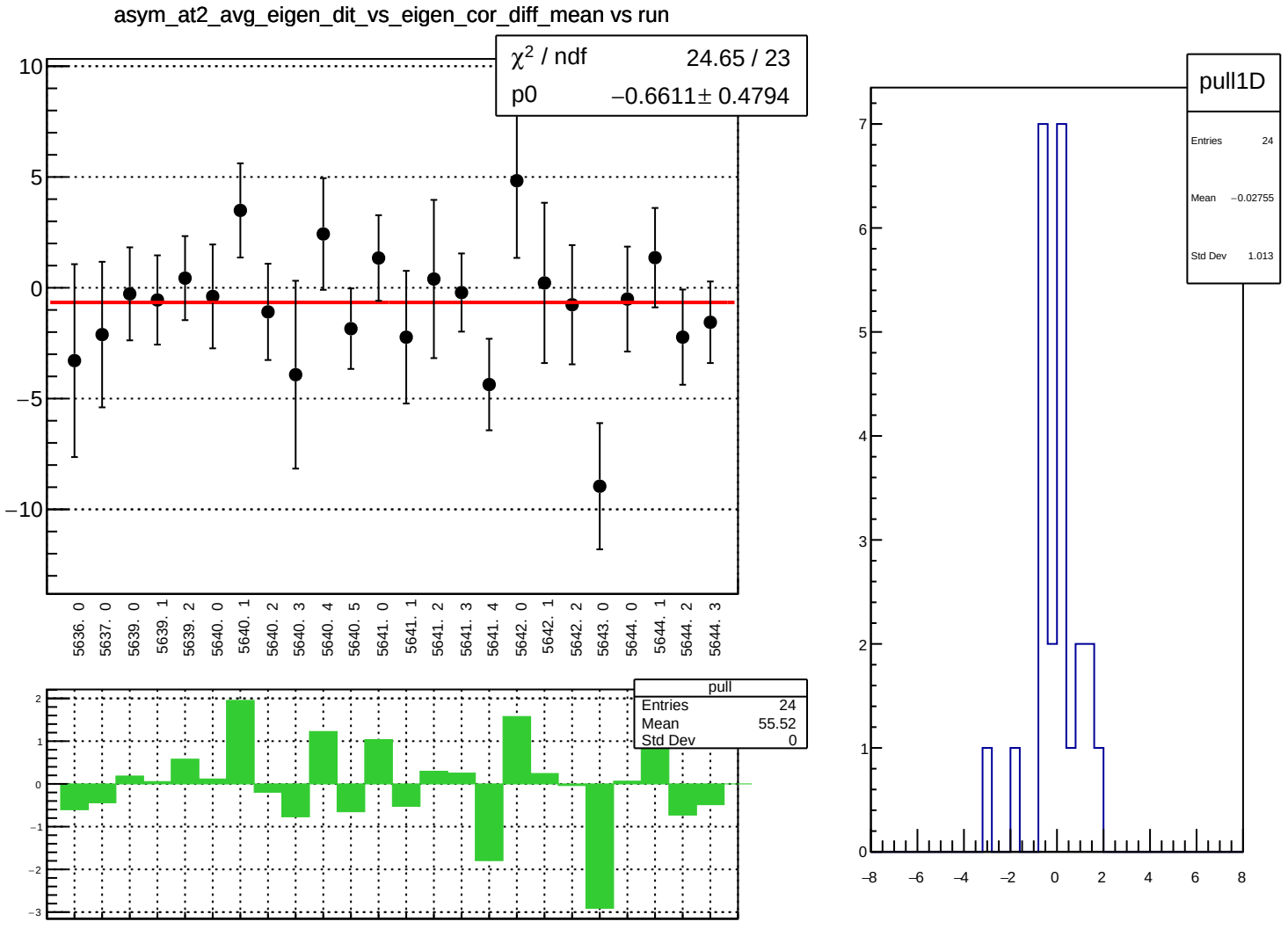
asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run

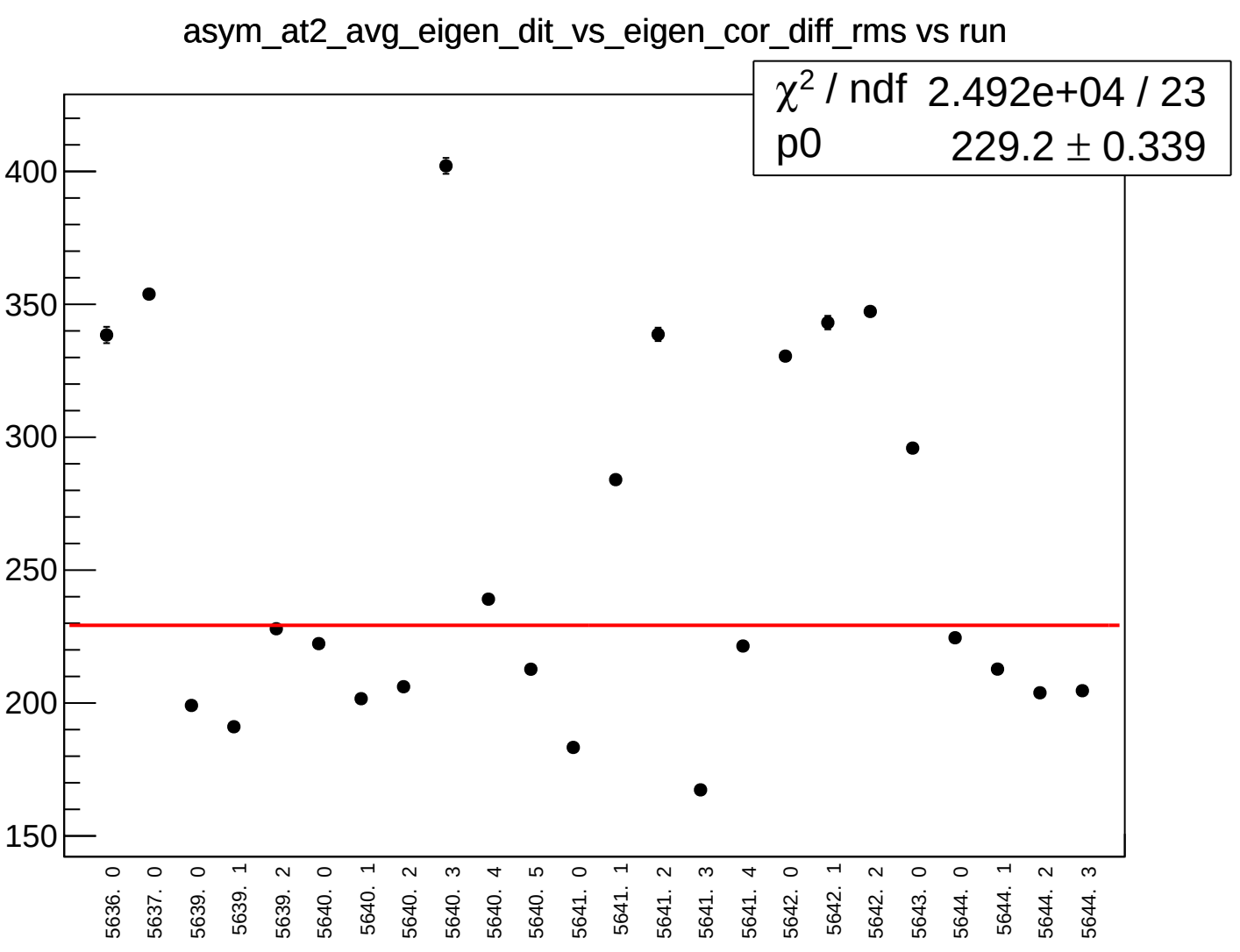


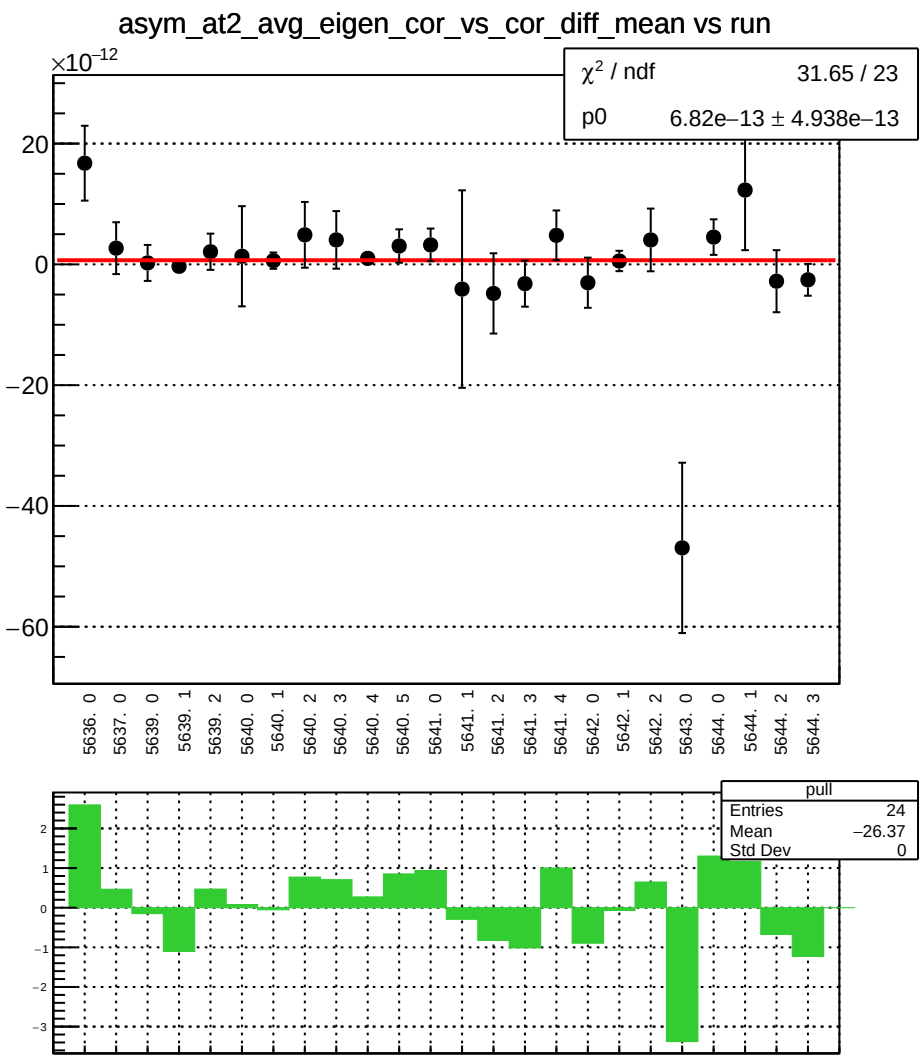


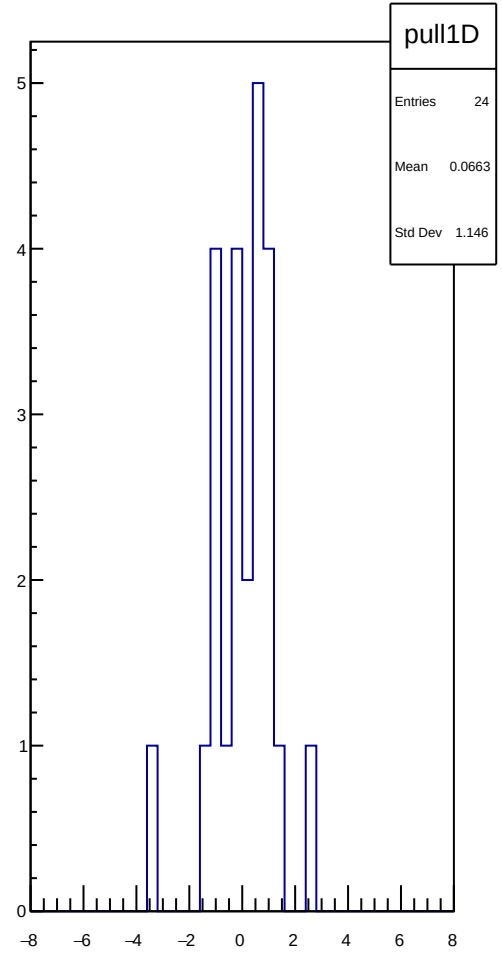


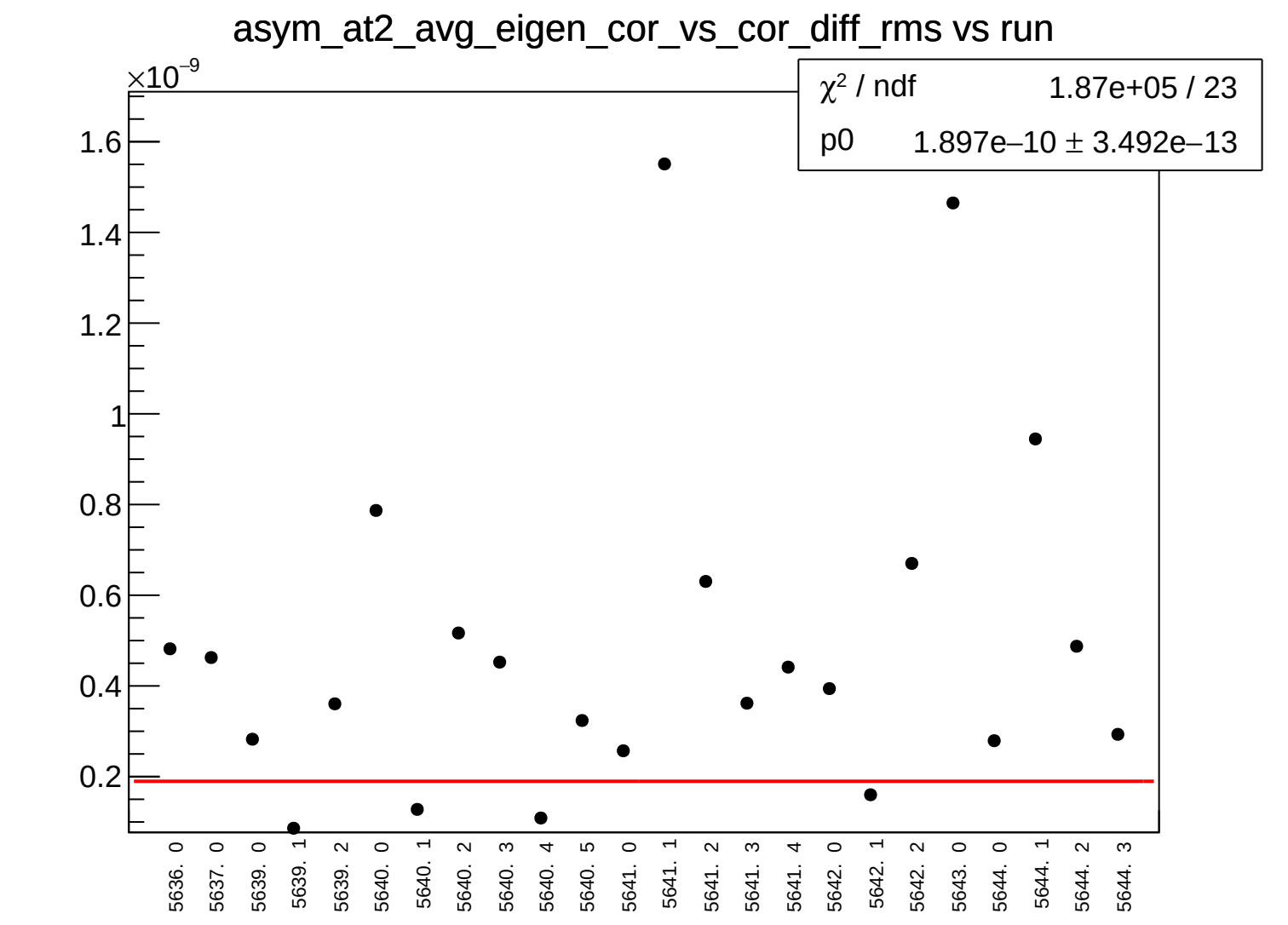

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.492e+04 / 23
p0 229.2 ± 0.339
400
350
300
250
200
150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

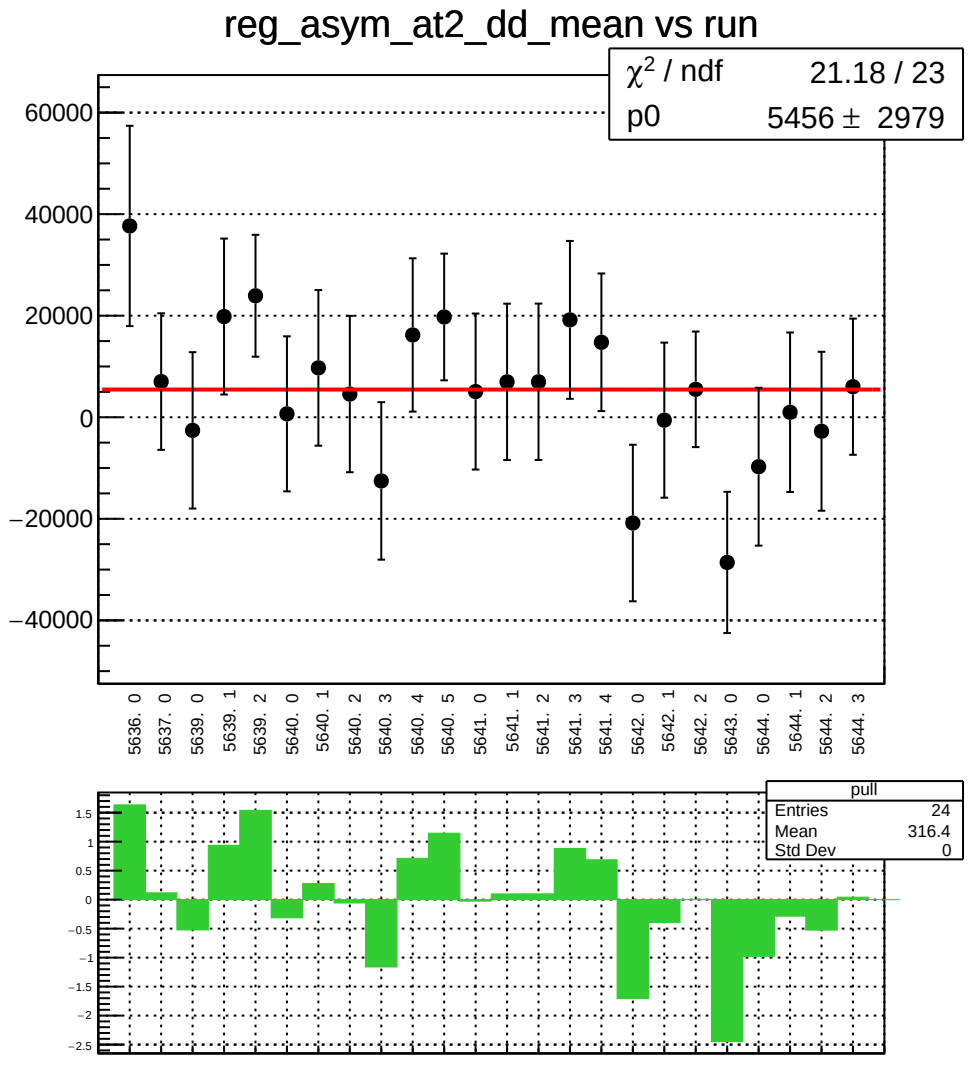

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.65 / 23
p0 −0.6611± 0.4794
10
5
0
−5
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 55.52
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean −0.02755
Std Dev 1.013
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

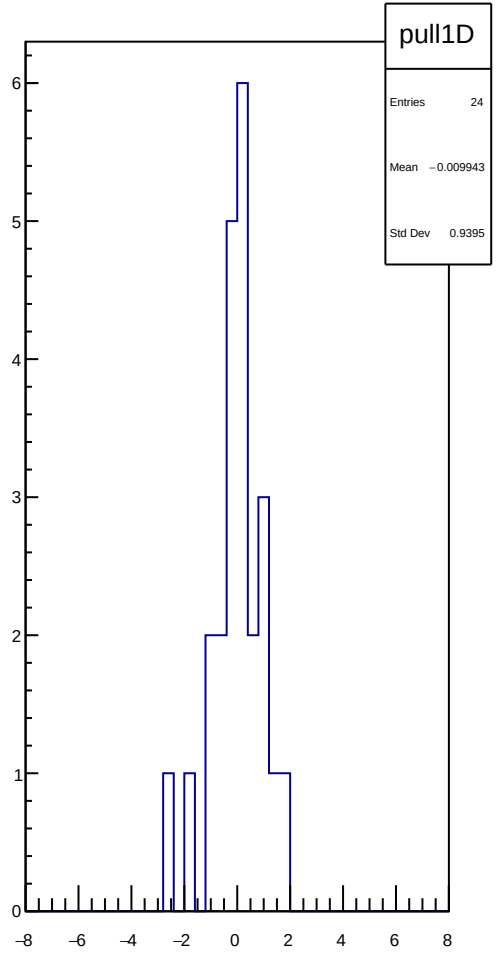

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.492e+04 / 23
p0 229.2 ± 0.339
400
350
300
250
200
150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

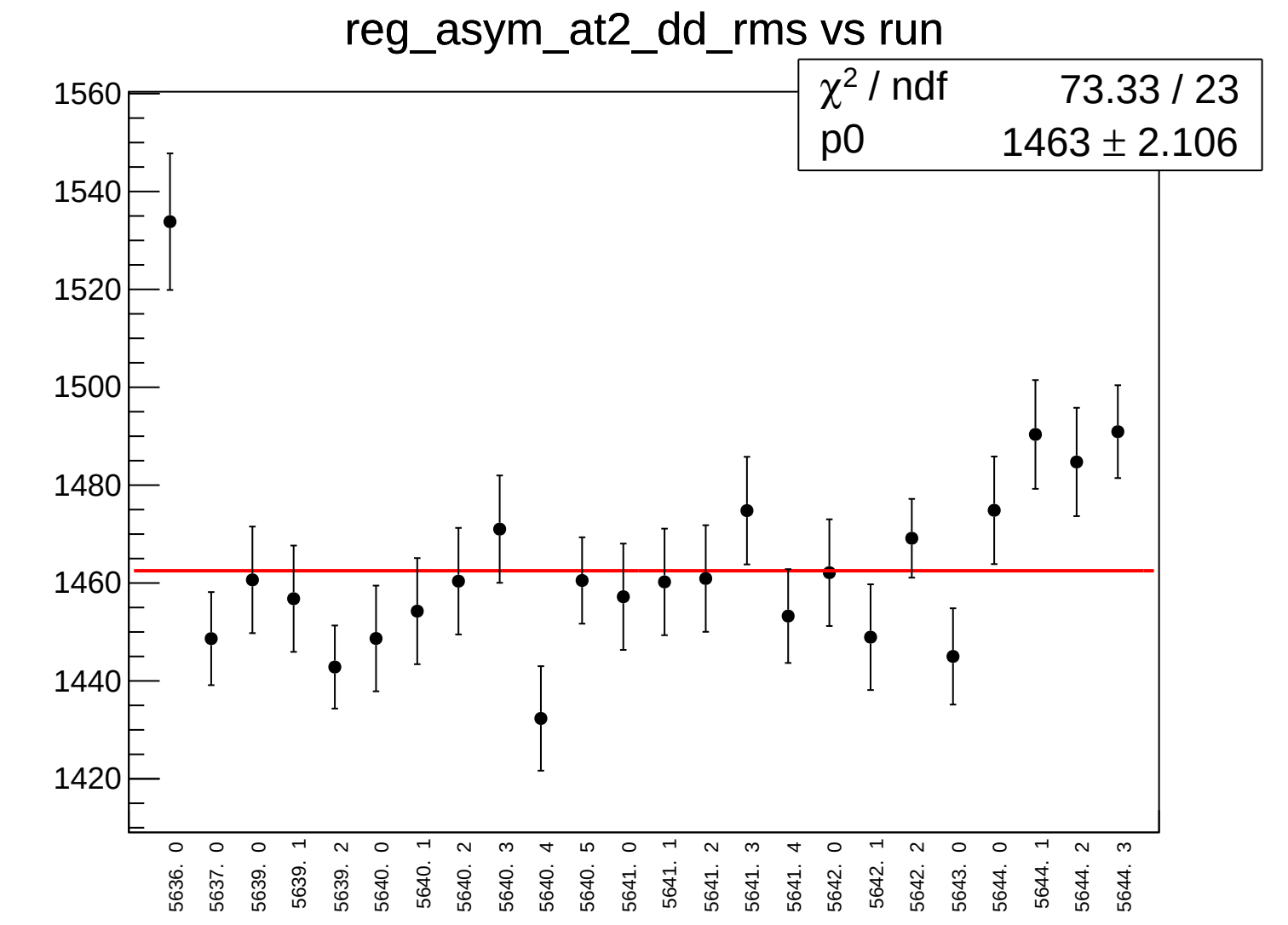

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 31.65 / 23
p0 6.82e−13 ± 4.938e−13
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −26.37
Std Dev 0
2
1
0
−1
−2
−3

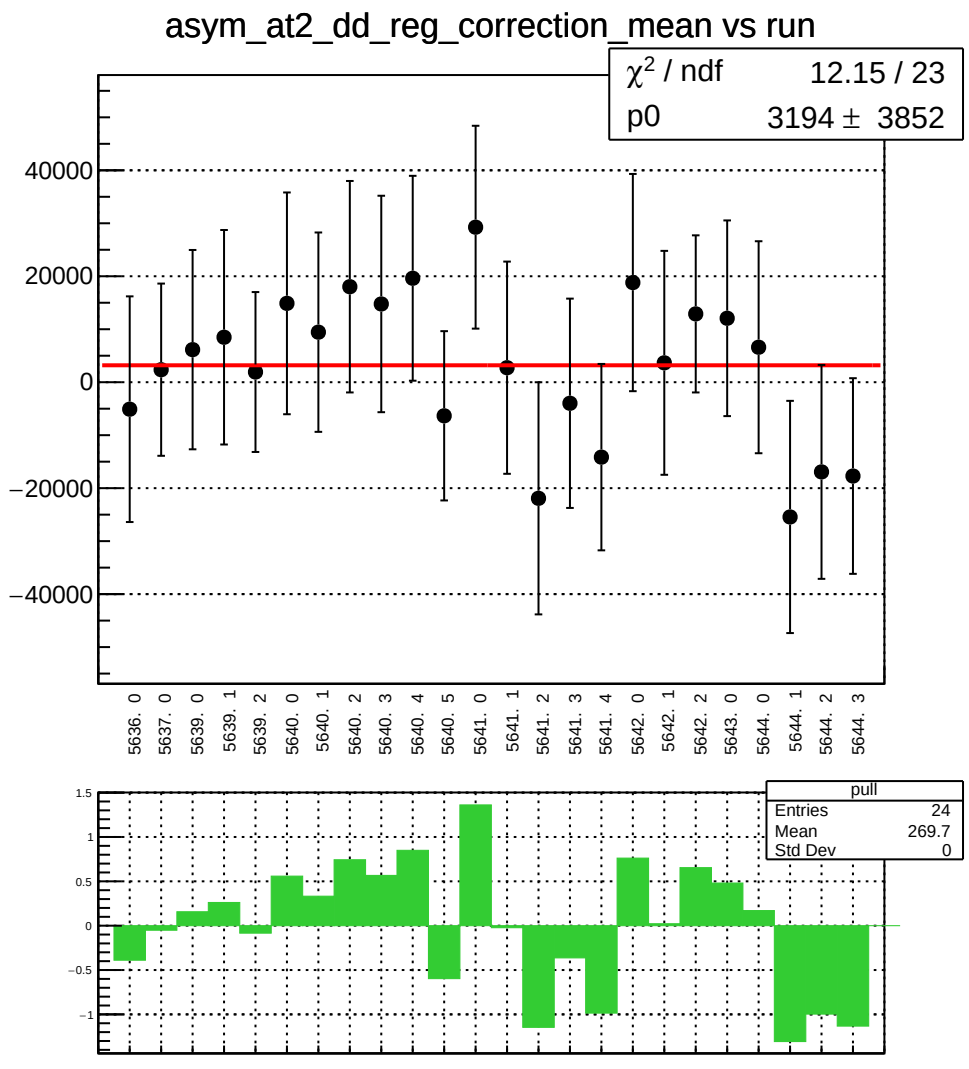

pull1D
Entries 24
Mean 0.0663
Std Dev 1.146
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

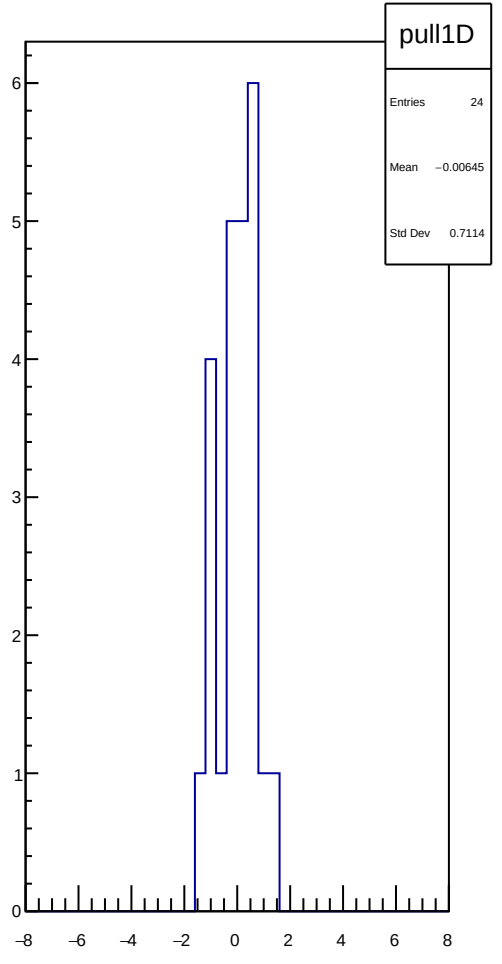

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.87e+05 / 23
p0 1.897e−10 ± 3.492e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

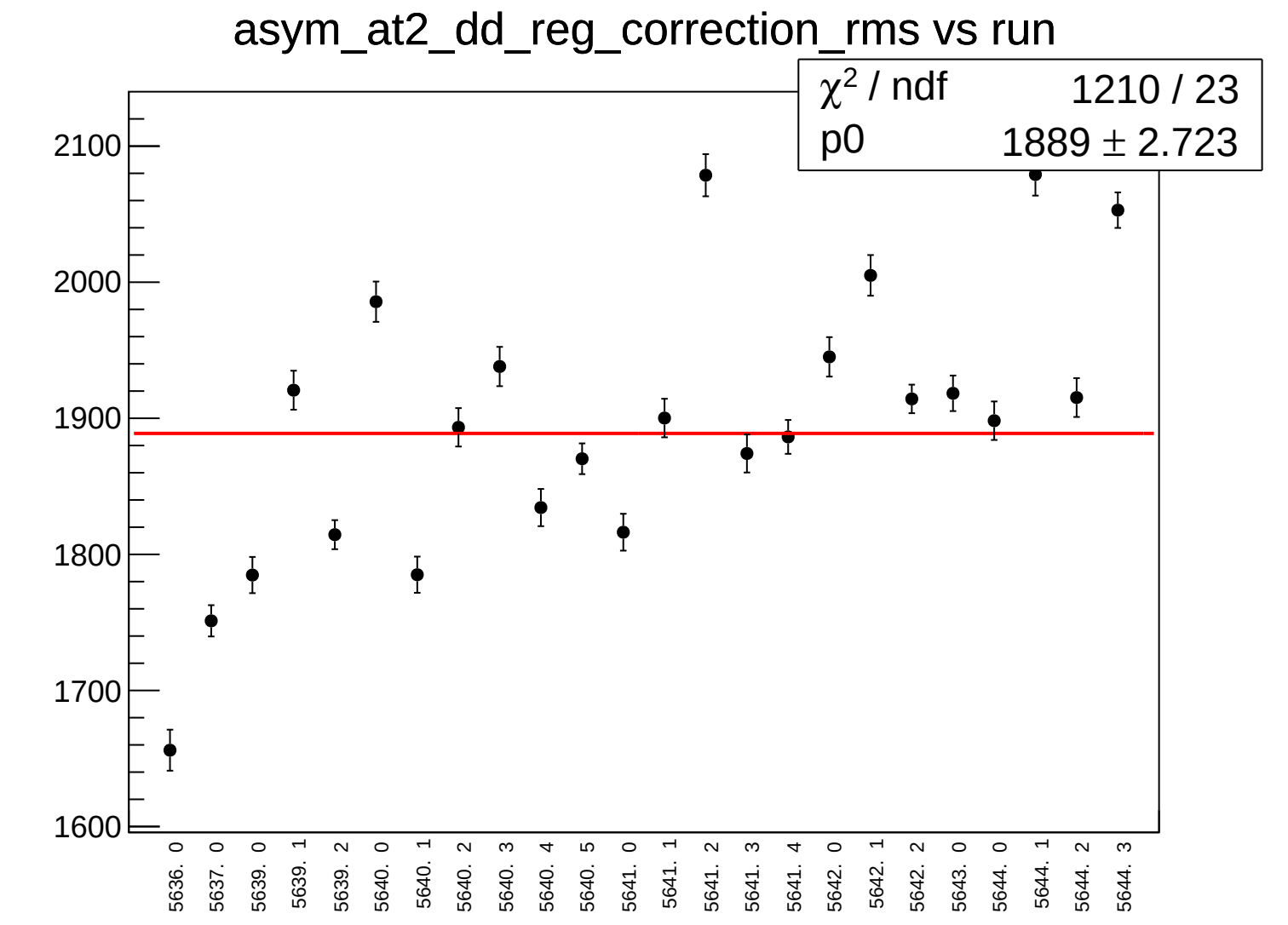

reg_asym_at2_dd_mean vs run
χ² / ndf 21.18 / 23
p0 5456 ± 2979
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 316.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 24
Mean −0.009943
Std Dev 0.9395
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at2_dd_rms vs run
χ² / ndf 73.33 / 23
p0 1463 ± 2.106
1560
1540
1520
1500
1480
1460
1440
1420
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_at2_dd_reg_correction_mean vs run
χ² / ndf 12.15 / 23
p0 3194 ± 3852
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 269.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 24
Mean −0.00645
Std Dev 0.7114
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_dd_reg_correction_rms vs run
χ² / ndf 1210 / 23
p0 1889 ± 2.723
2100
2000
1900
1800
1700
1600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5642. 0
5642. 1
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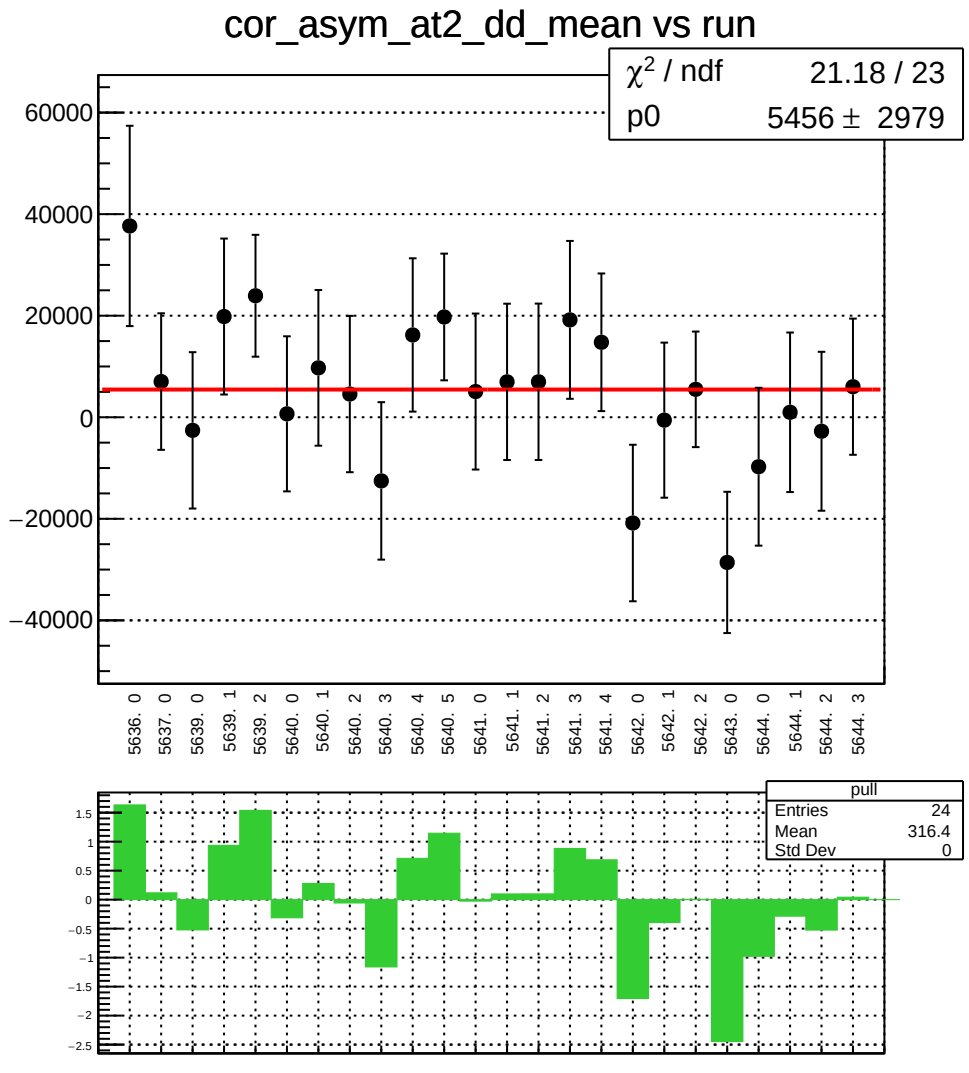
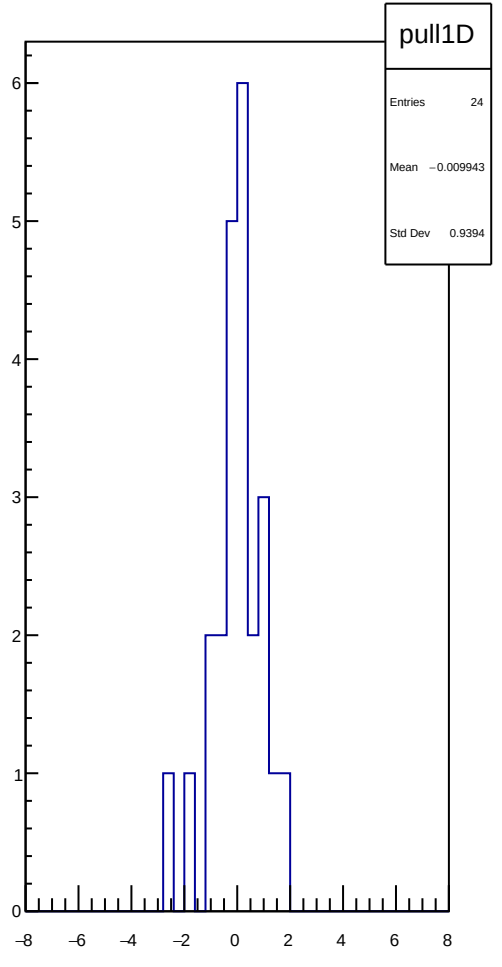
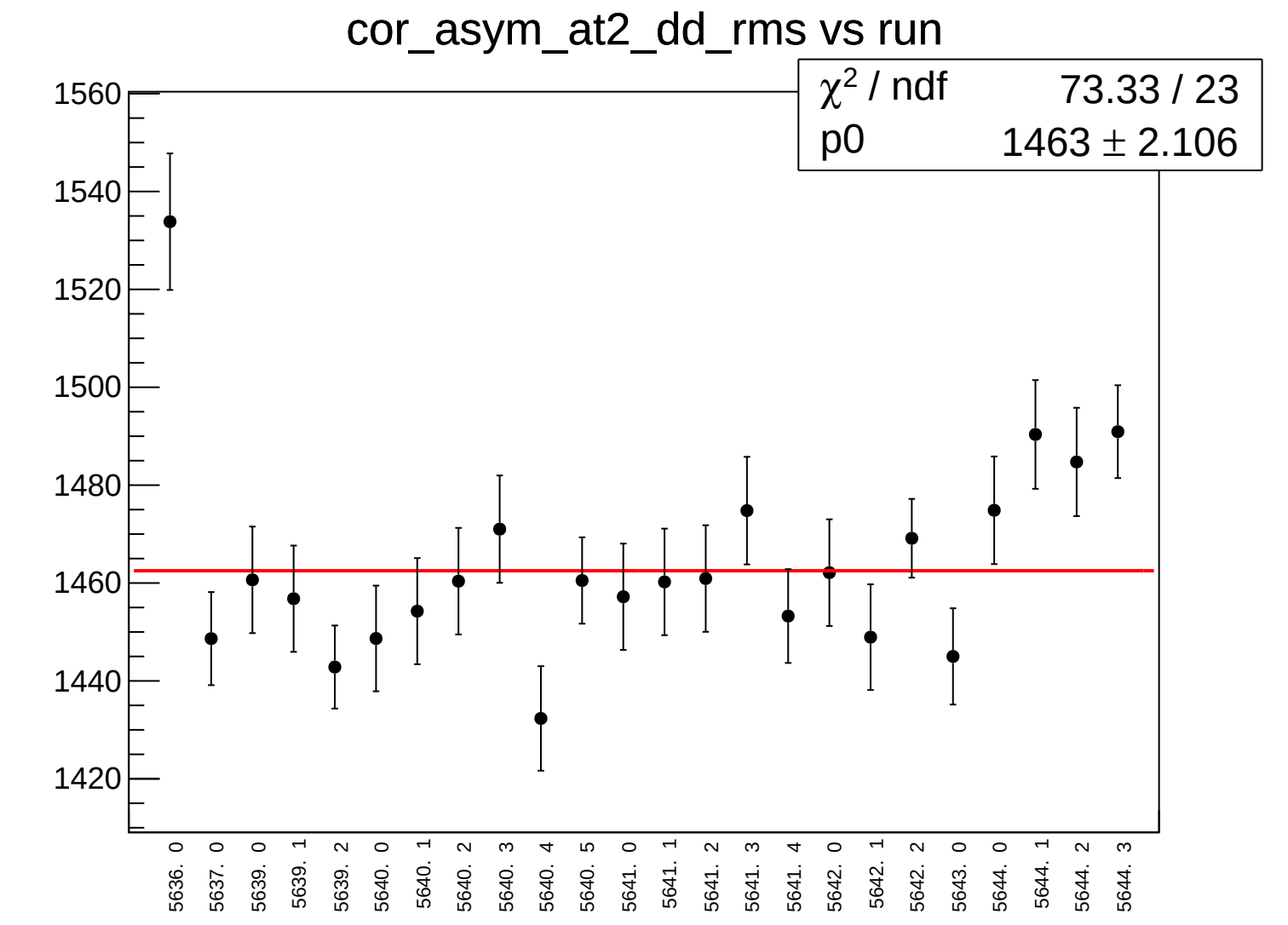
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


cor_asym_at2_dd_mean vs run
χ² / ndf 21.18 / 23
p0 5456 ± 2979
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 316.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 24
Mean −0.009943
Std Dev 0.9394
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_at2_dd_rms vs run
χ² / ndf 73.33 / 23
p0 1463 ± 2.106
1560
1540
1520
1500
1480
1460
1440
1420
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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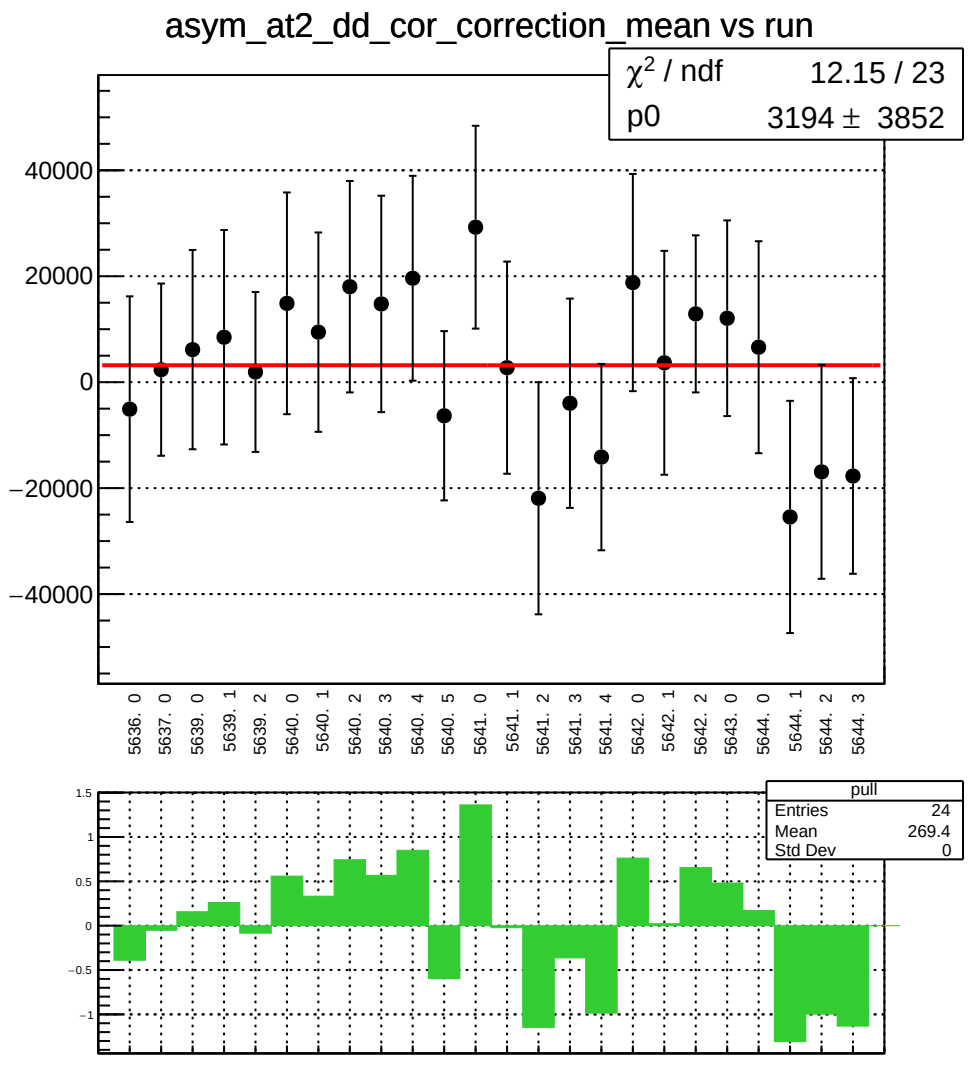
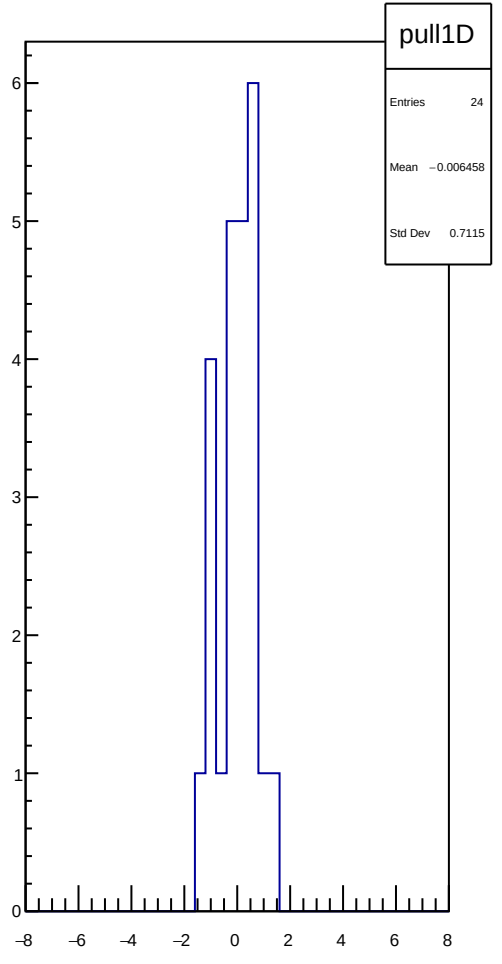
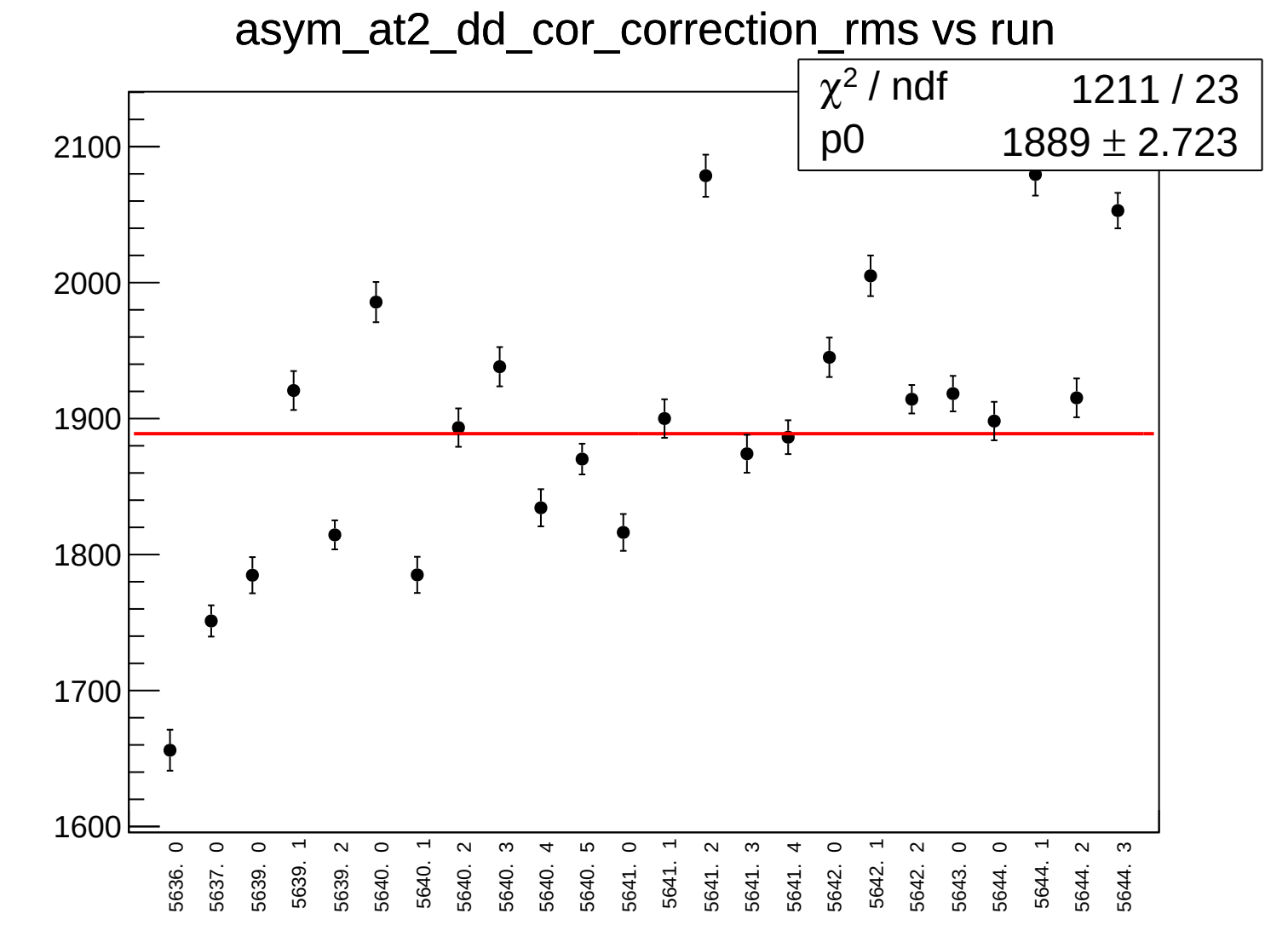
5644. 2
5644. 3


asym_at2_dd_cor_correction_mean vs run
χ² / ndf 12.15 / 23
p0 3194 ± 3852
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 269.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 24
Mean −0.006458
Std Dev 0.7115
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_dd_cor_correction_rms vs run
χ² / ndf 1211 / 23
p0 1889 ± 2.723
2100
2000
1900
1800
1700
1600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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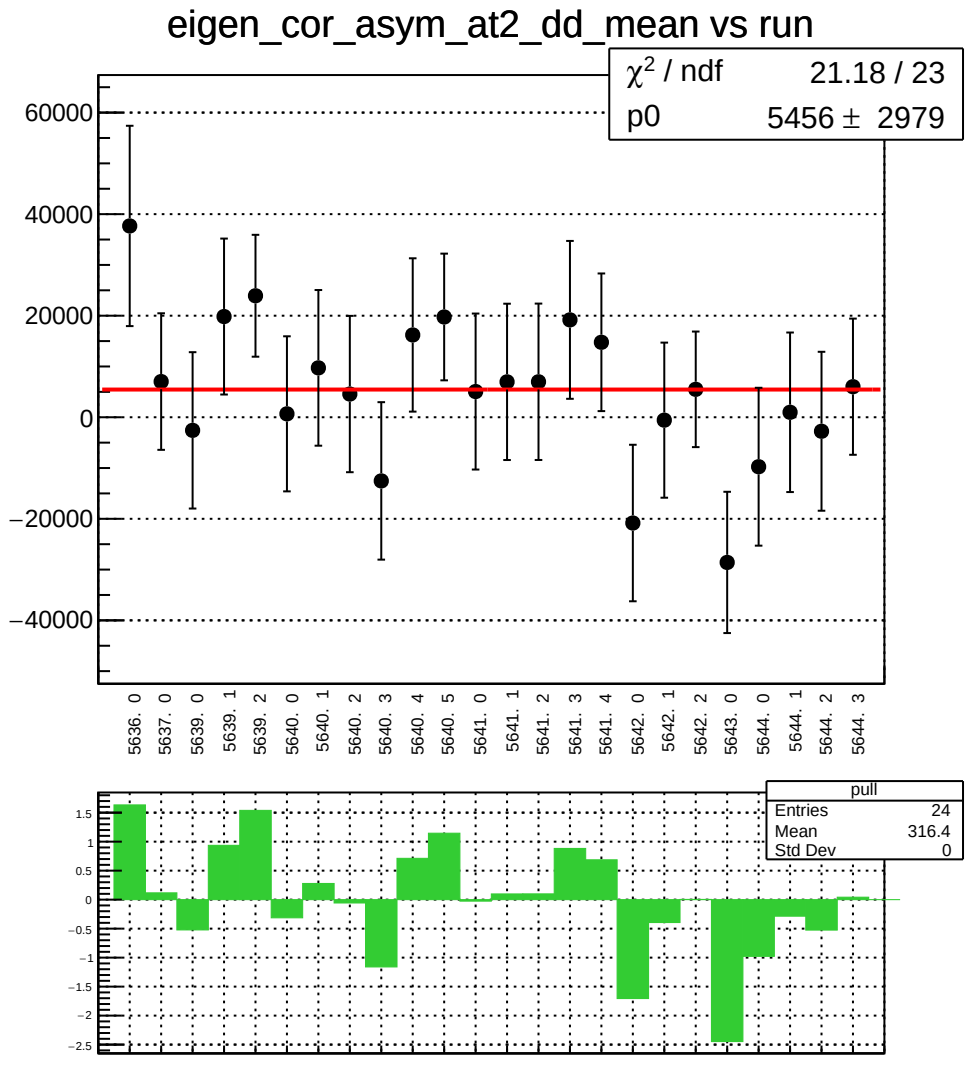
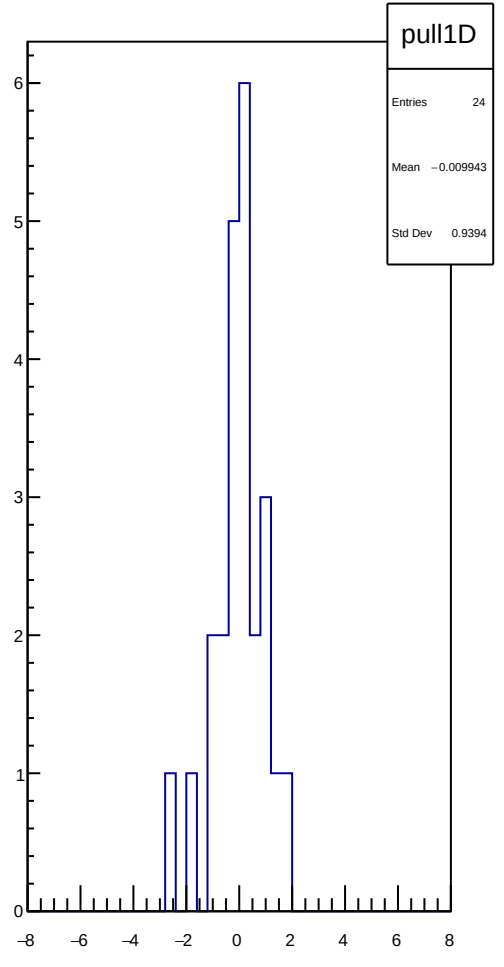
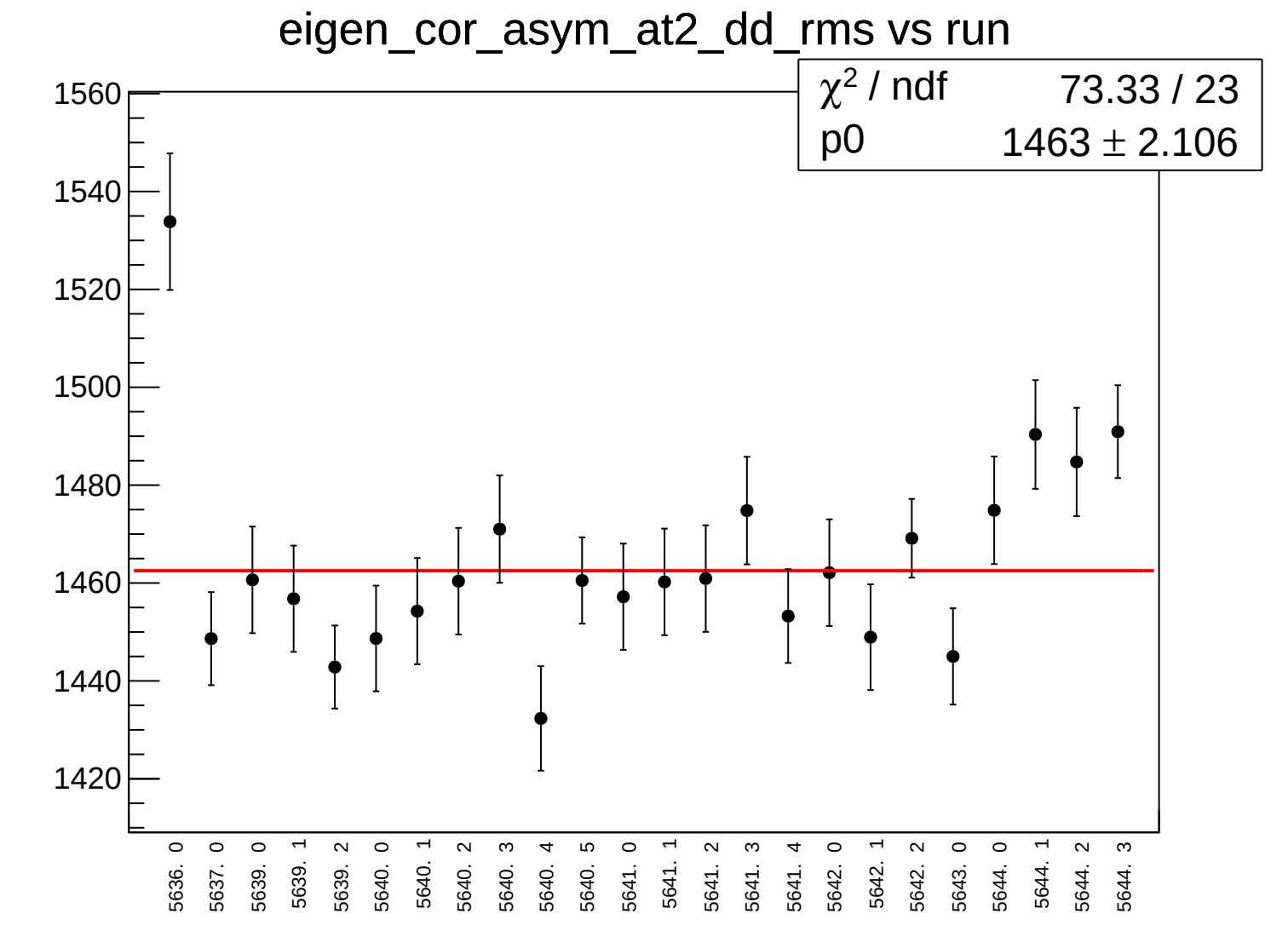
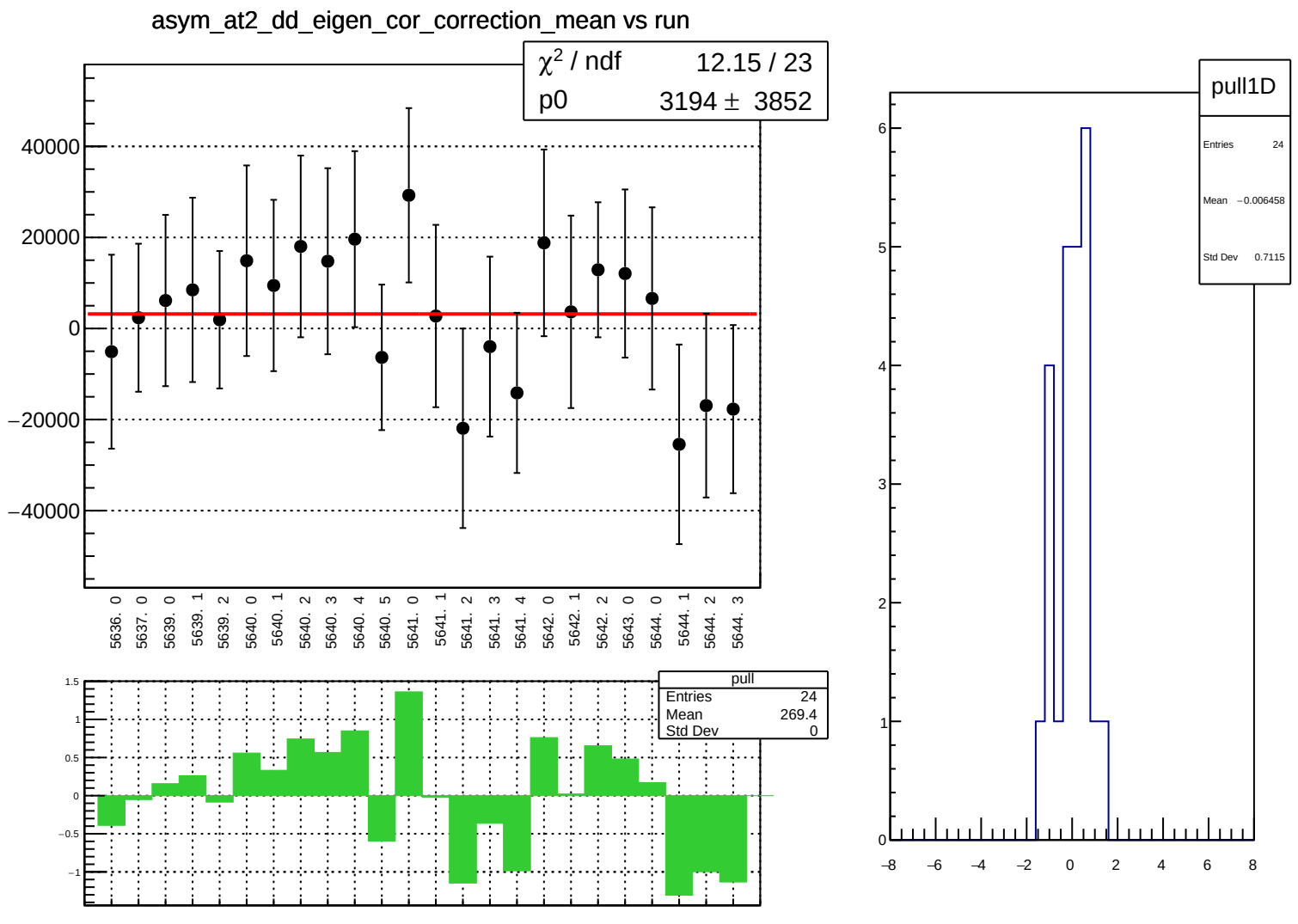
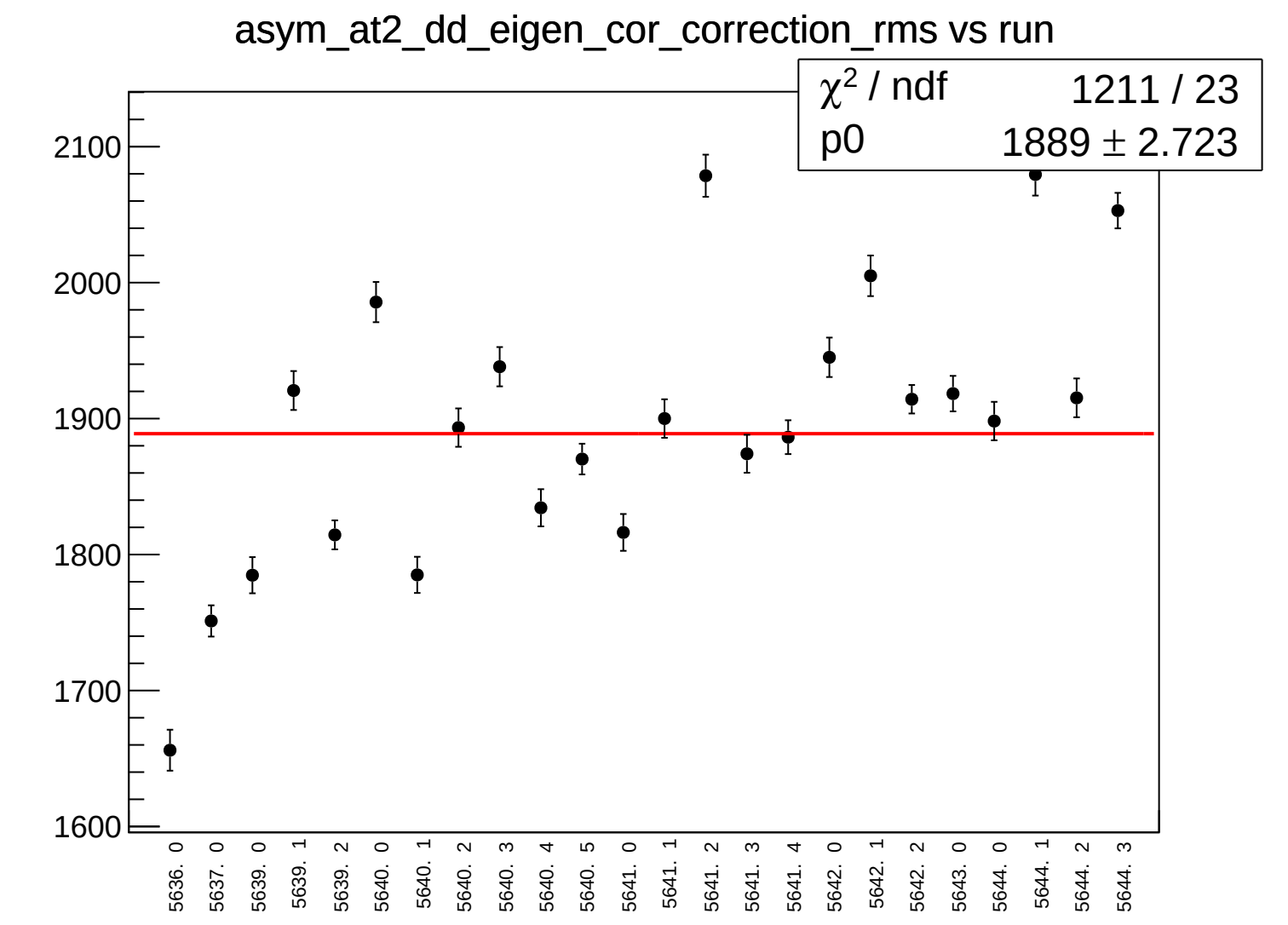
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 21.18 / 23
p0 5456 ± 2979
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 316.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 24
Mean −0.009943
Std Dev 0.9394
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 73.33 / 23
p0 1463 ± 2.106
1560
1540
1520
1500
1480
1460
1440
1420
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_at2_dd_eigen_cor_correction_mean vs run
χ² / ndf 12.15 / 23
p0 3194 ± 3852
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 269.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.006458
Std Dev 0.7115
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1211 / 23
p0 1889 ± 2.723
2100
2000
1900
1800
1700
1600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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5642. 0
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5643. 0
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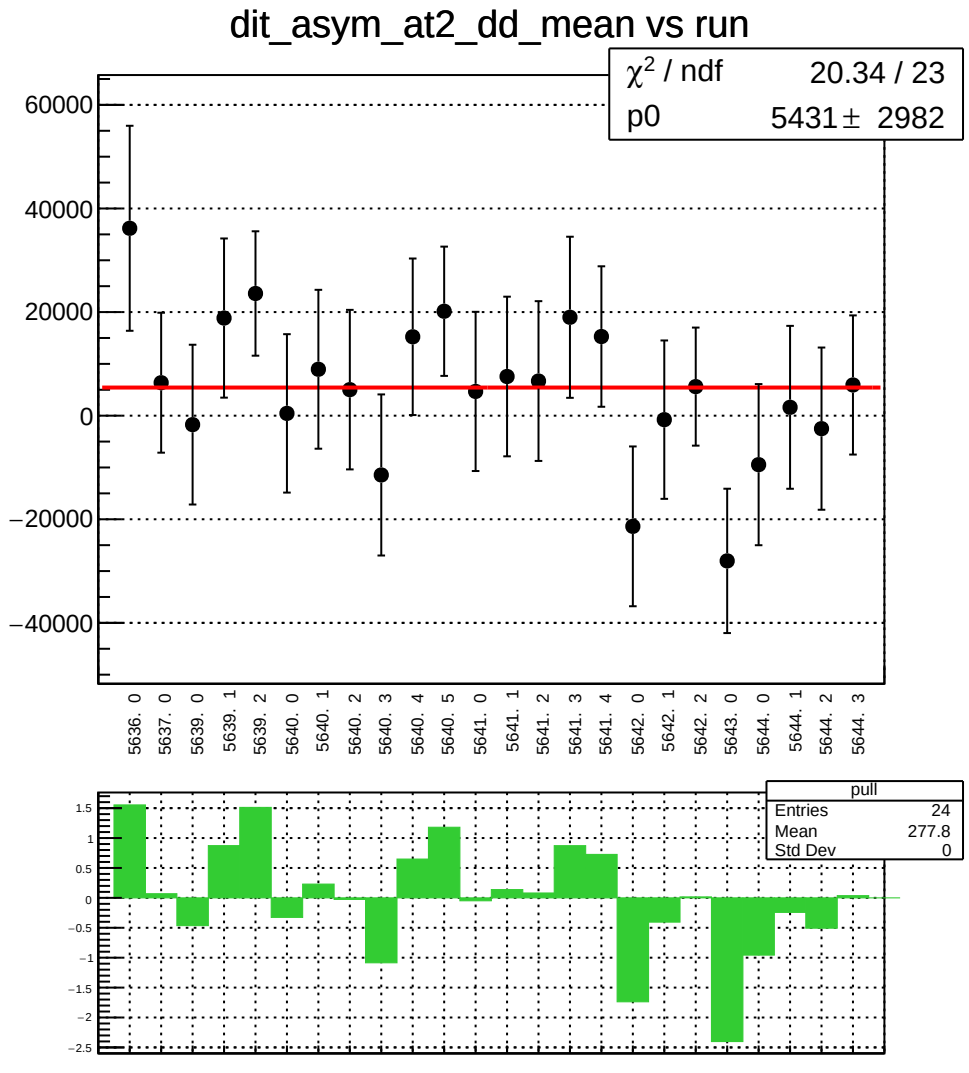
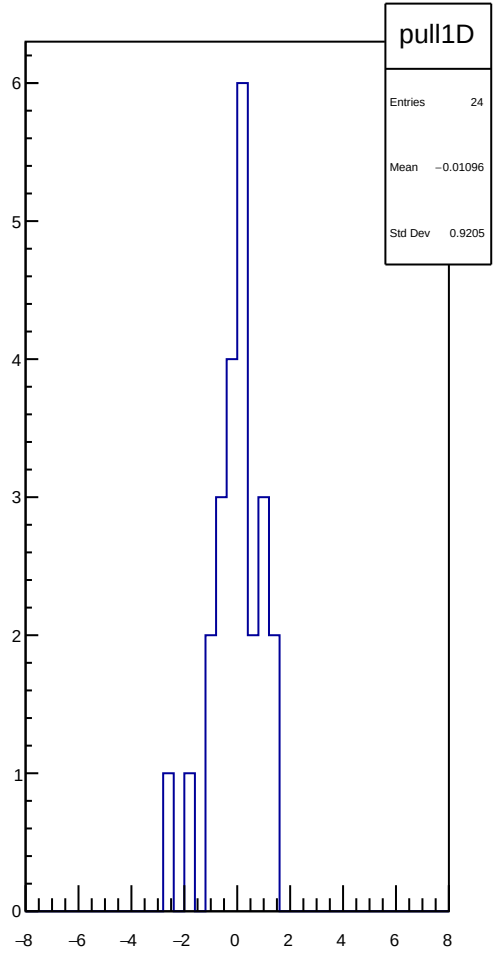
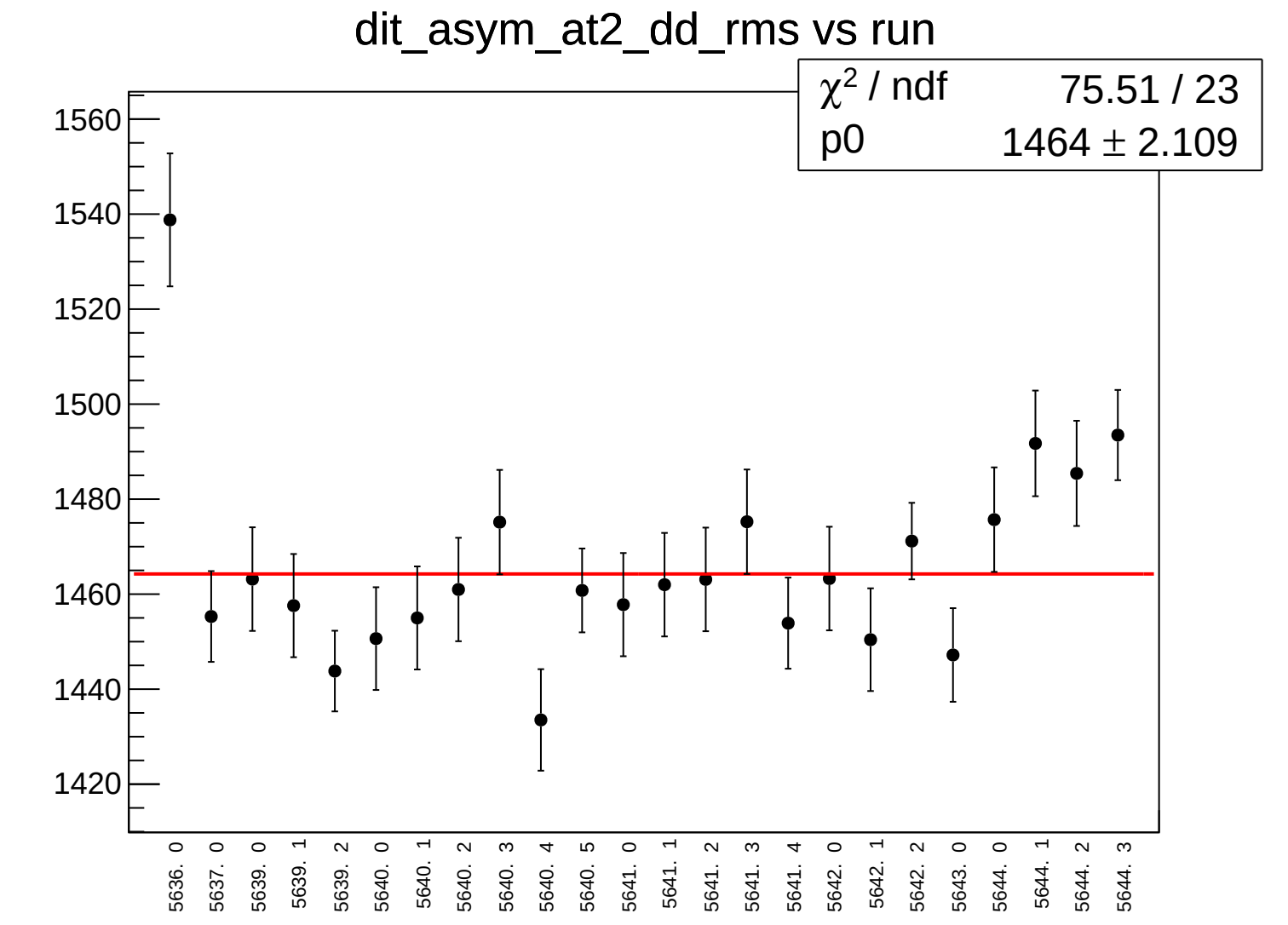
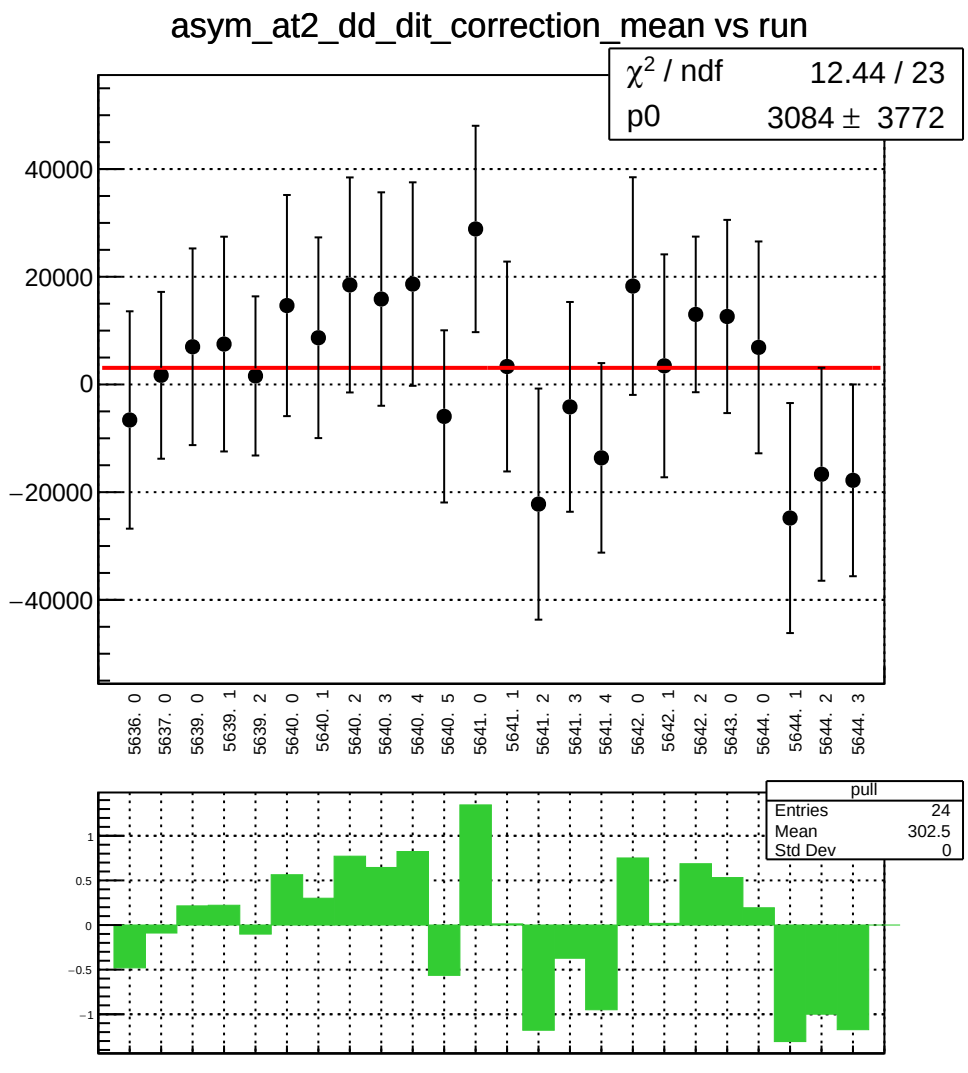
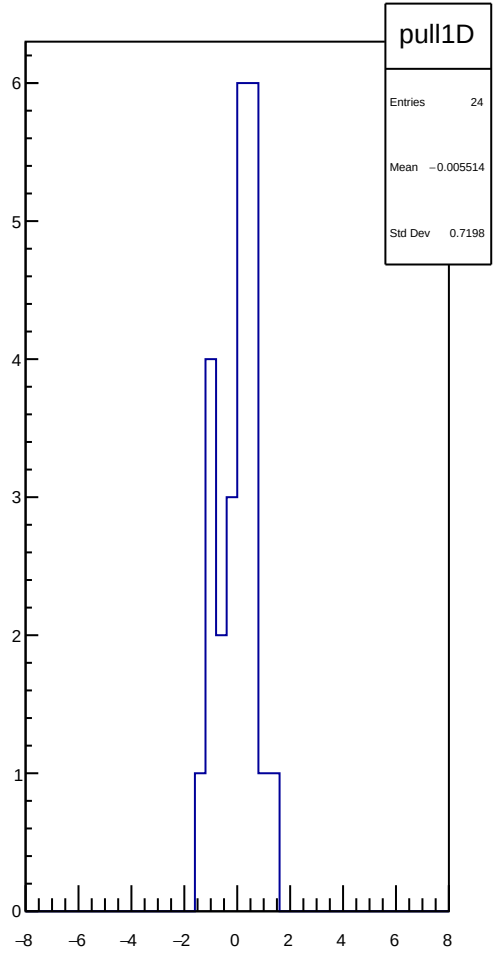
5644. 2
5644. 3

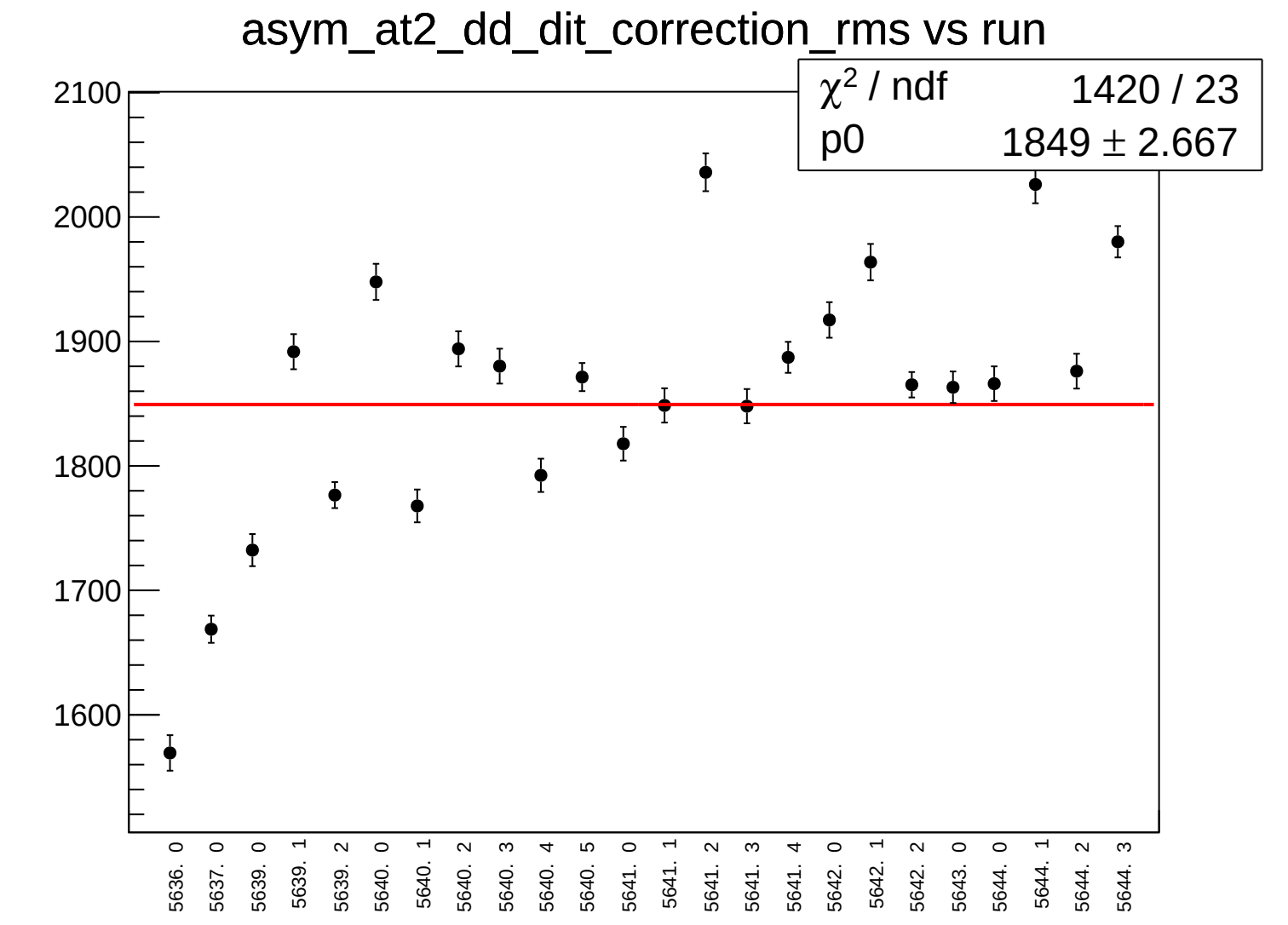

dit_asym_at2_dd_mean vs run
χ² / ndf 20.34 / 23
p0 5431 ± 2982
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 277.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

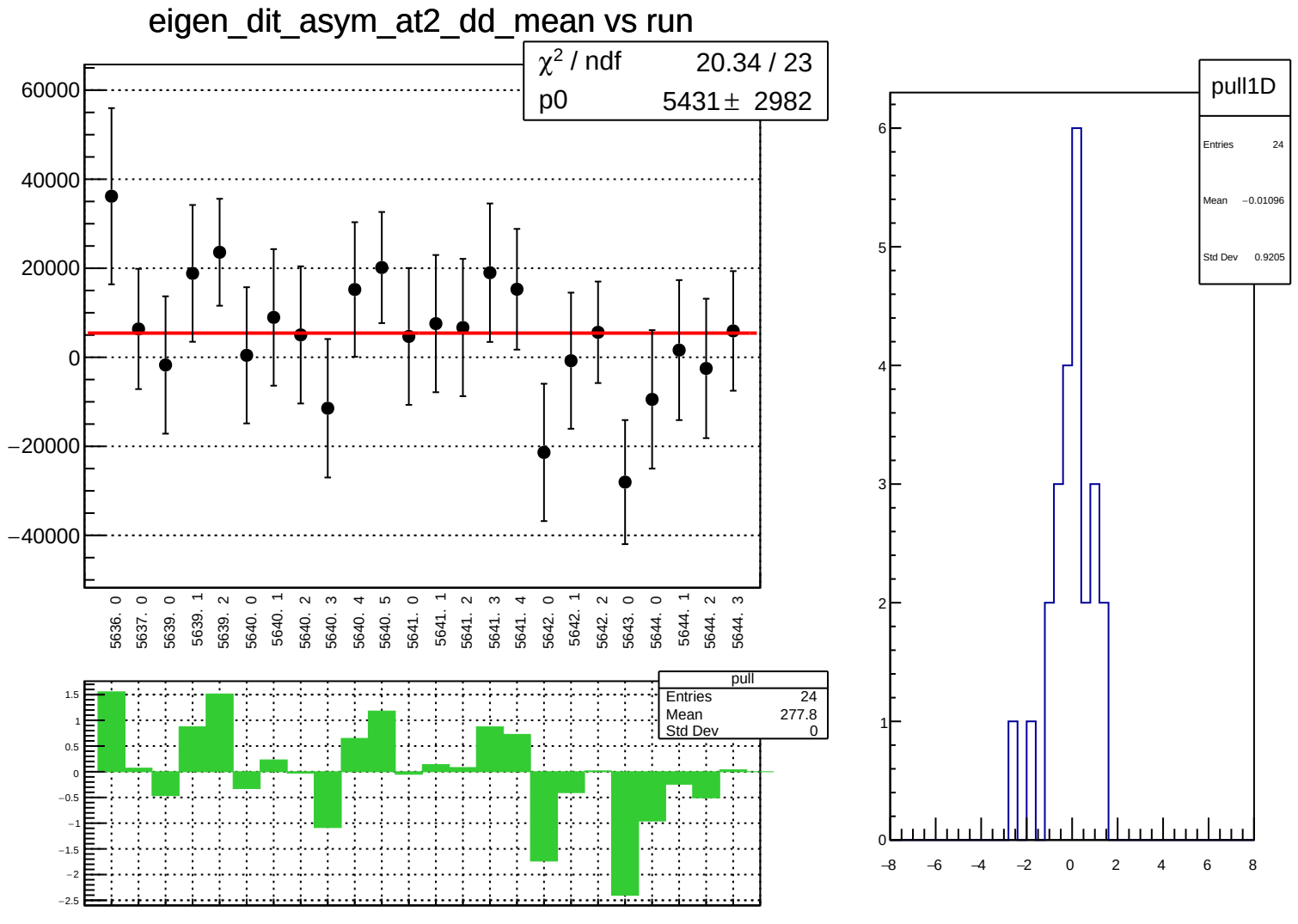

pull1D
Entries 24
Mean −0.01096
Std Dev 0.9205
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

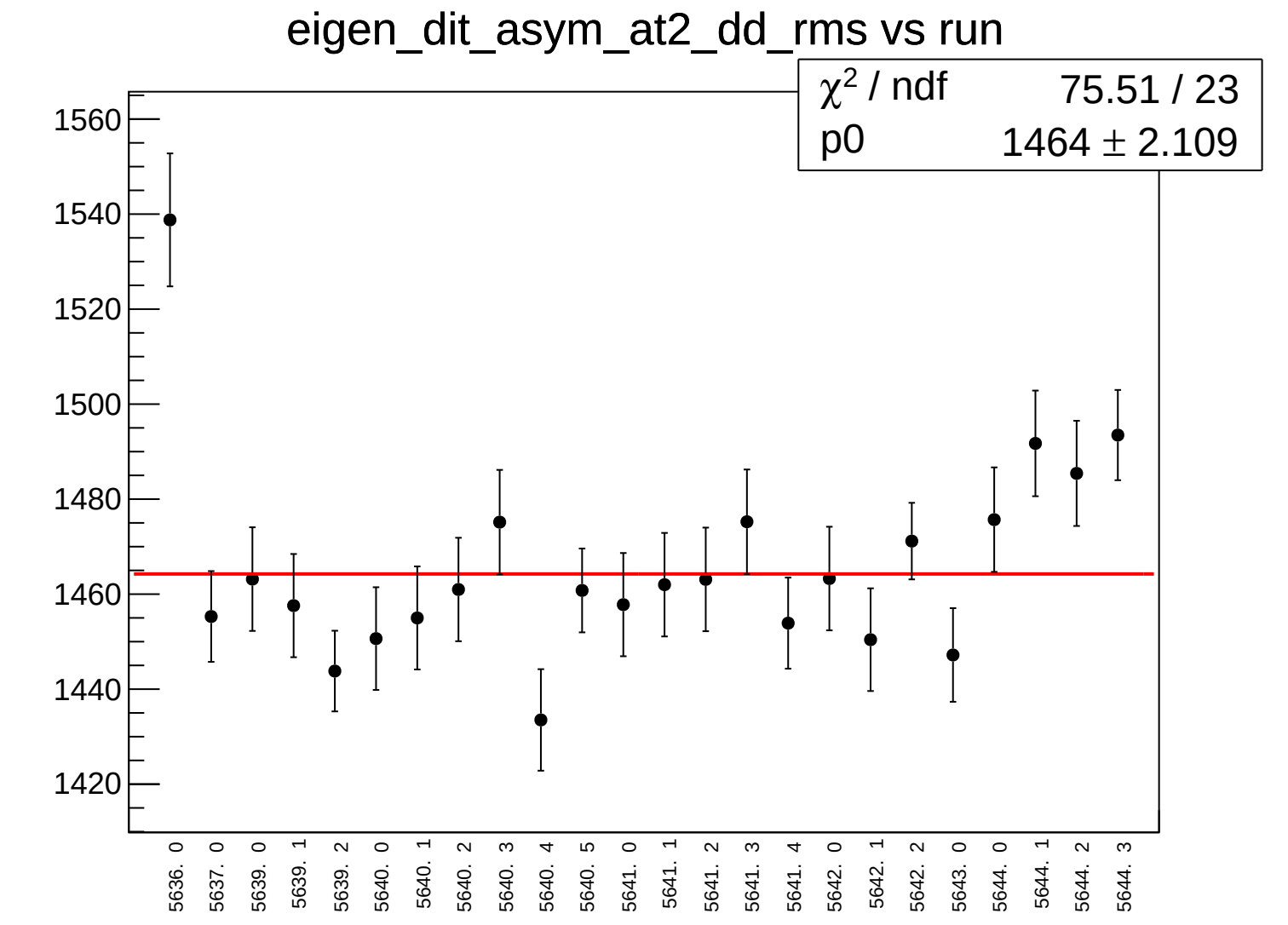

dit_asym_at2_dd_rms vs run
χ² / ndf 75.51 / 23
p0 1464 ± 2.109
1560
1540
1520
1500
1480
1460
1440
1420
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

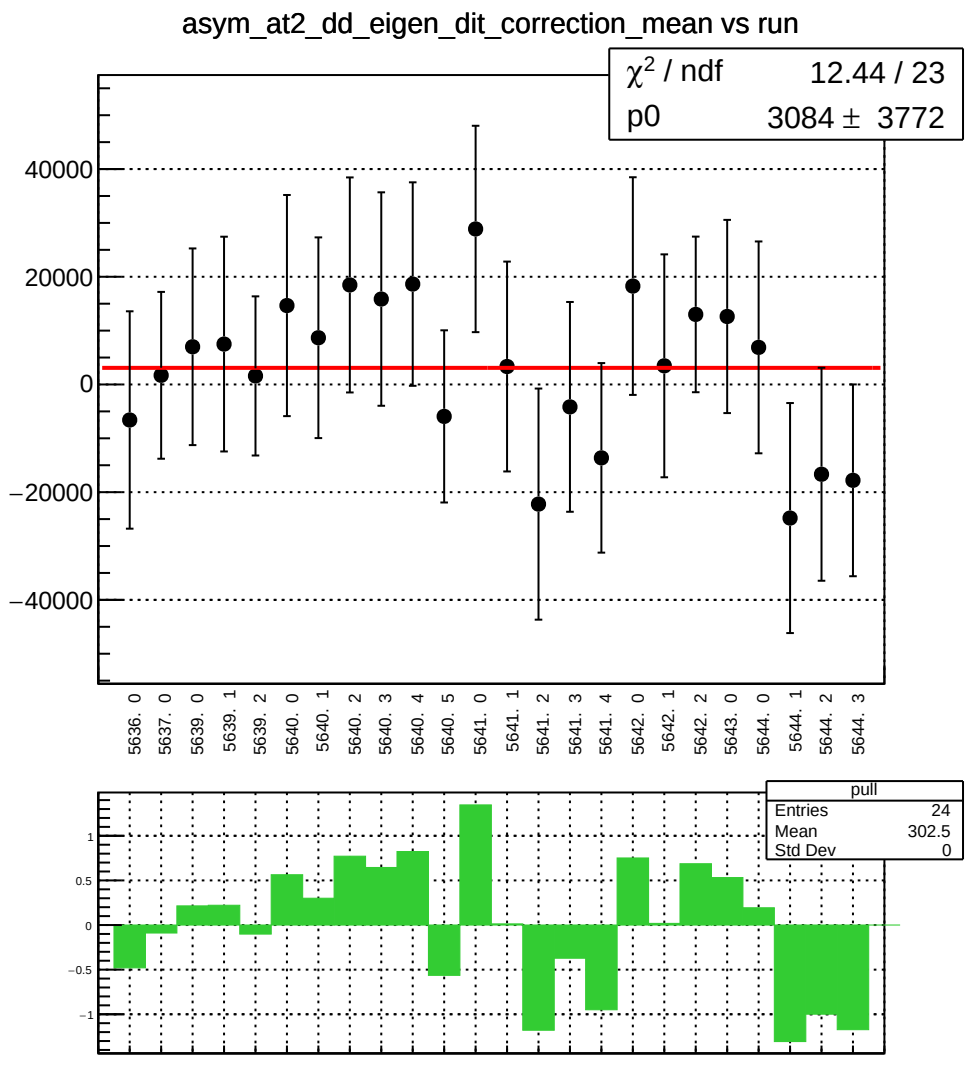

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 12.44 / 23
p0 3084 ± 3772
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 302.5
Std Dev 0
1
0.5
0
−0.5
−1

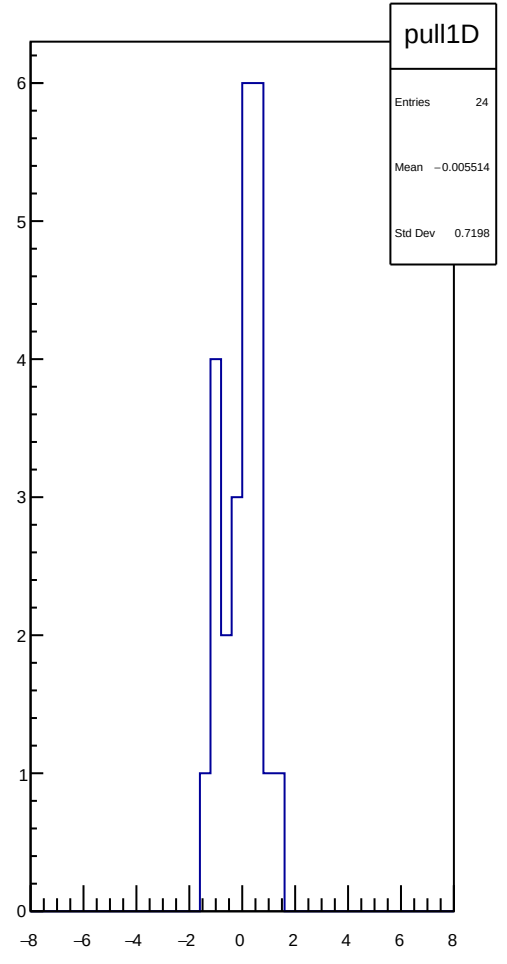

pull1D
Entries 24
Mean −0.005514
Std Dev 0.7198
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

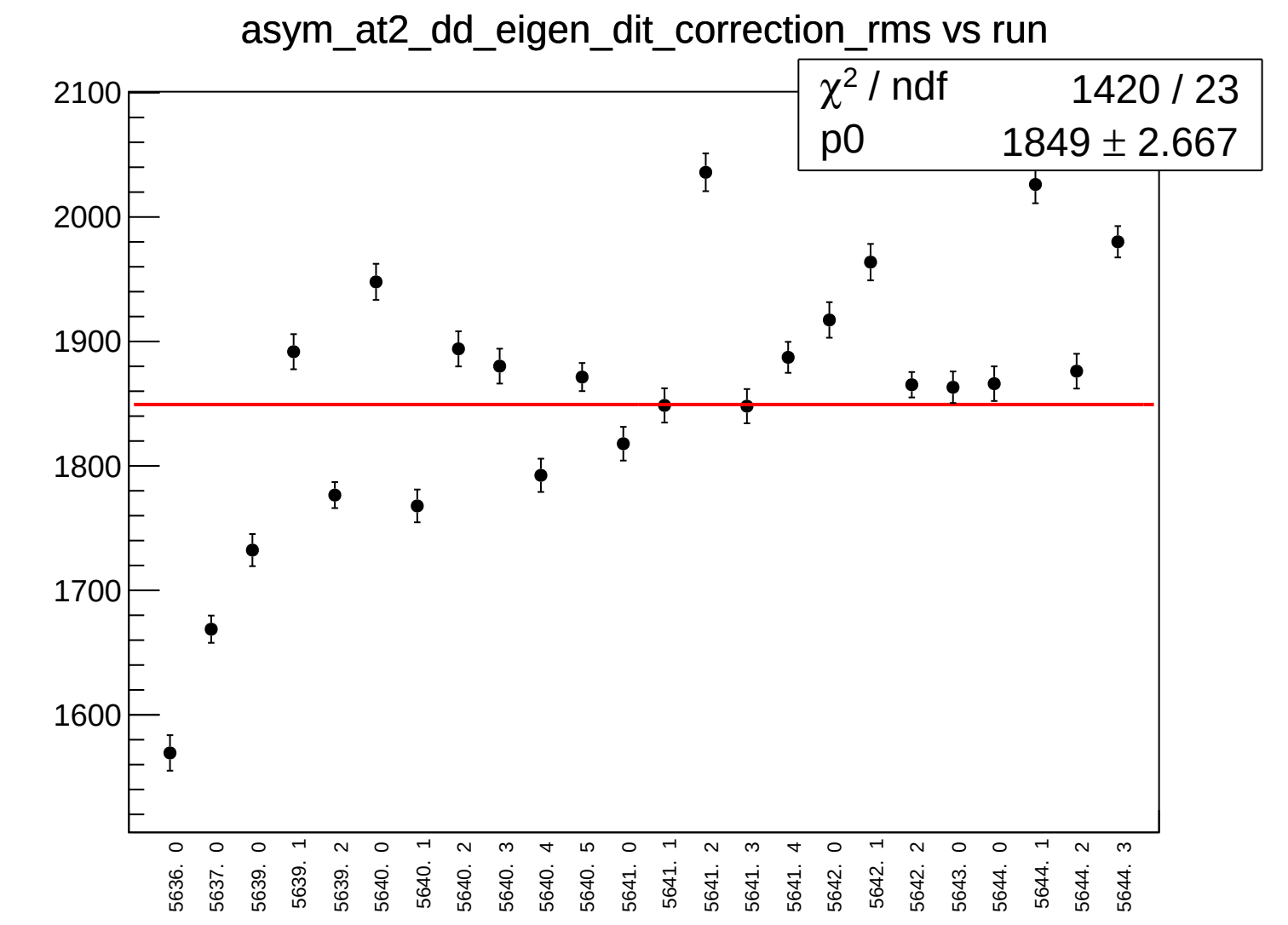

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 1420 / 23
p0 1849 ± 2.667
2100
2000
1900
1800
1700
1600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

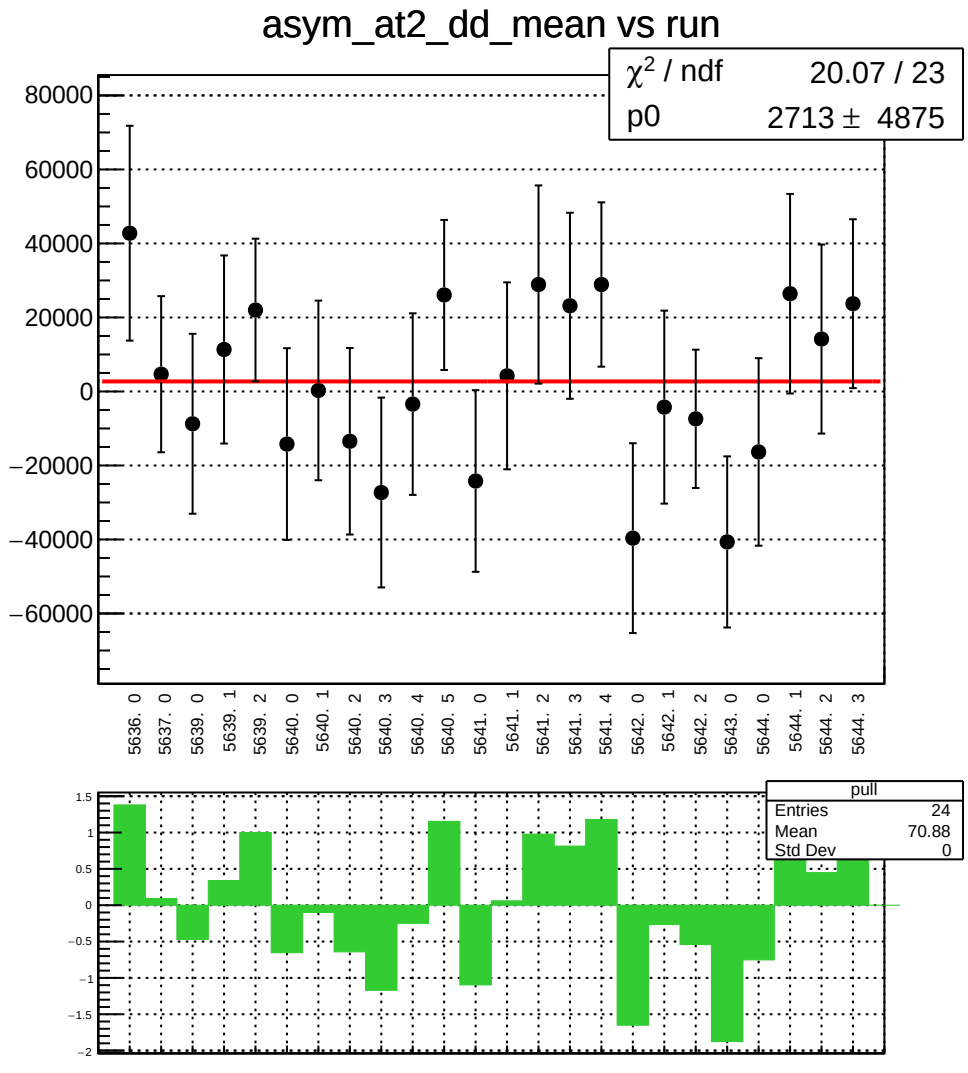

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 20.34 / 23
p0 5431 ± 2982
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 277.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean −0.01096
Std Dev 0.9205
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

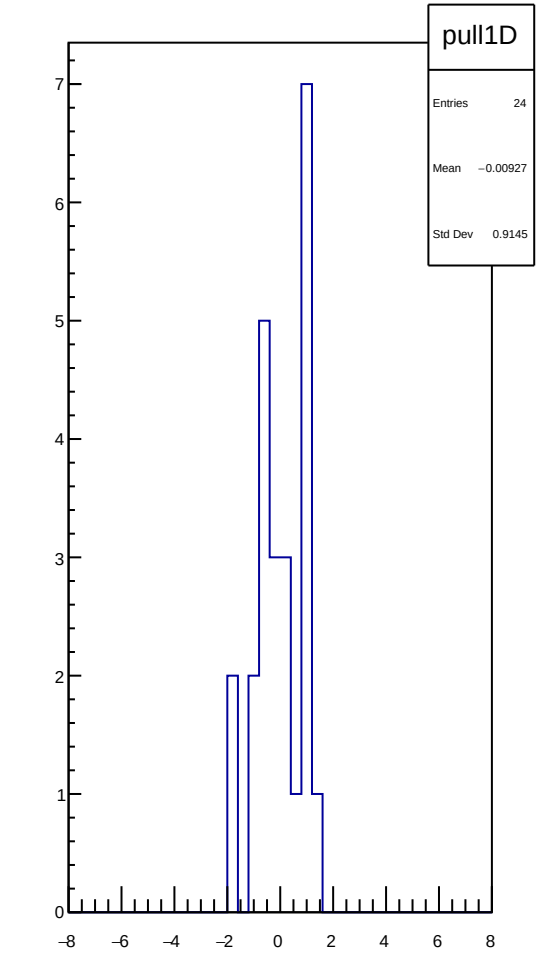

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 75.51 / 23
p0 1464 ± 2.109
1560
1540
1520
1500
1480
1460
1440
1420
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

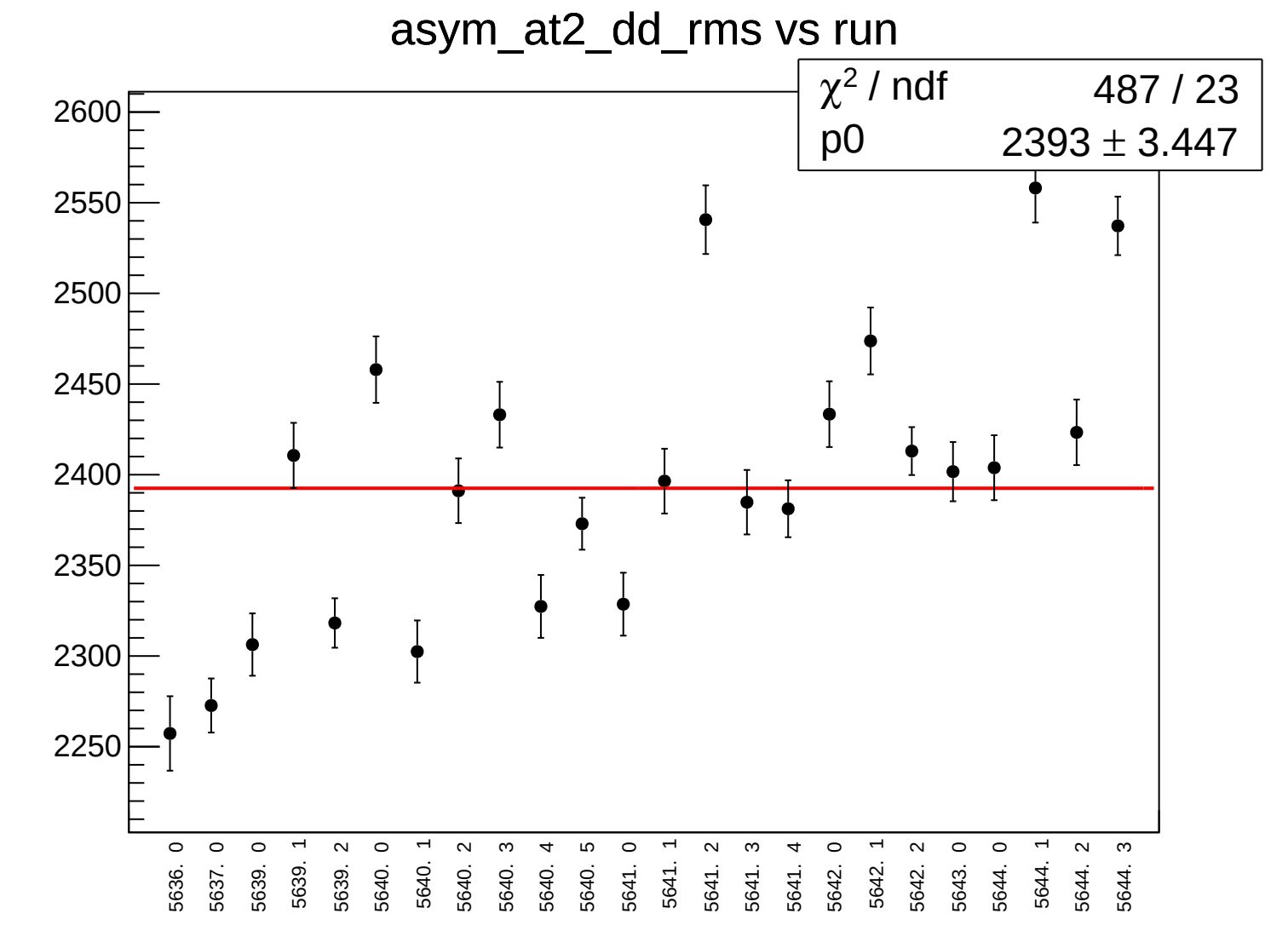

asym_at2_dd_eigen_dit_correction_mean vs run
χ² / ndf 12.44 / 23
p0 3084 ± 3772
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 302.5
Std Dev 0
1
0.5
0
−0.5
−1

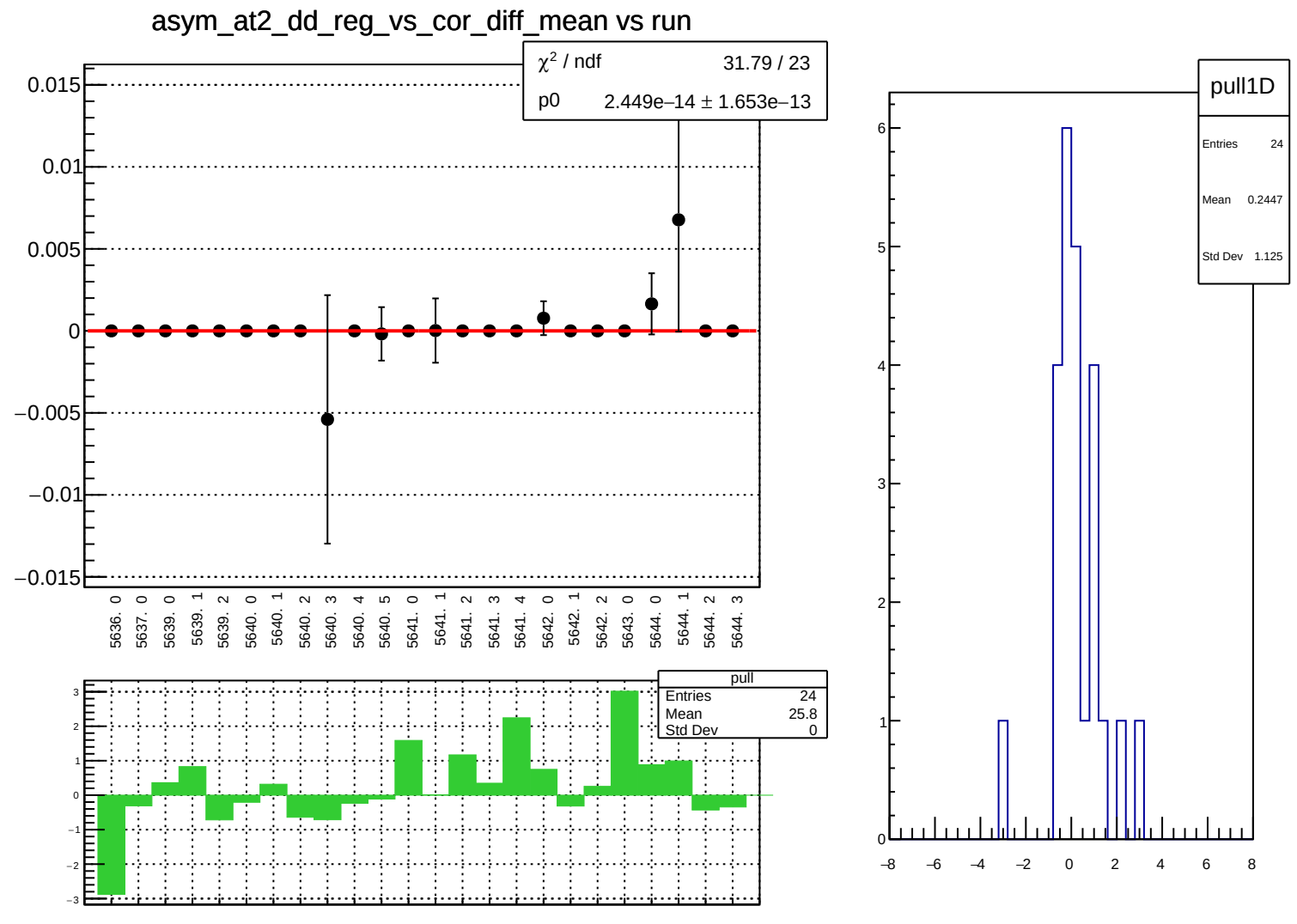

pull1D
Entries 24
Mean −0.005514
Std Dev 0.7198
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

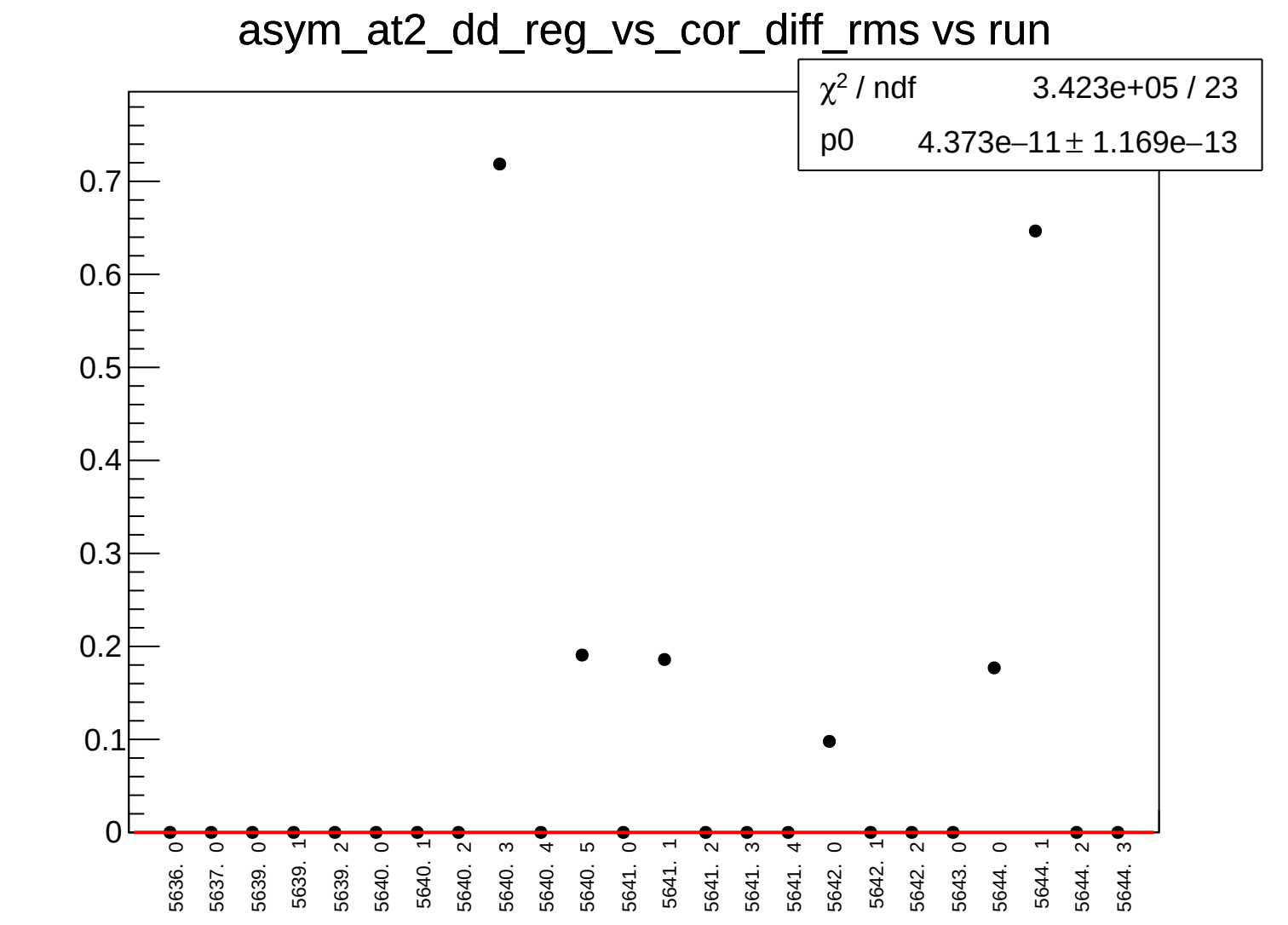

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1420 / 23
p0 1849 ± 2.667
2100
2000
1900
1800
1700
1600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

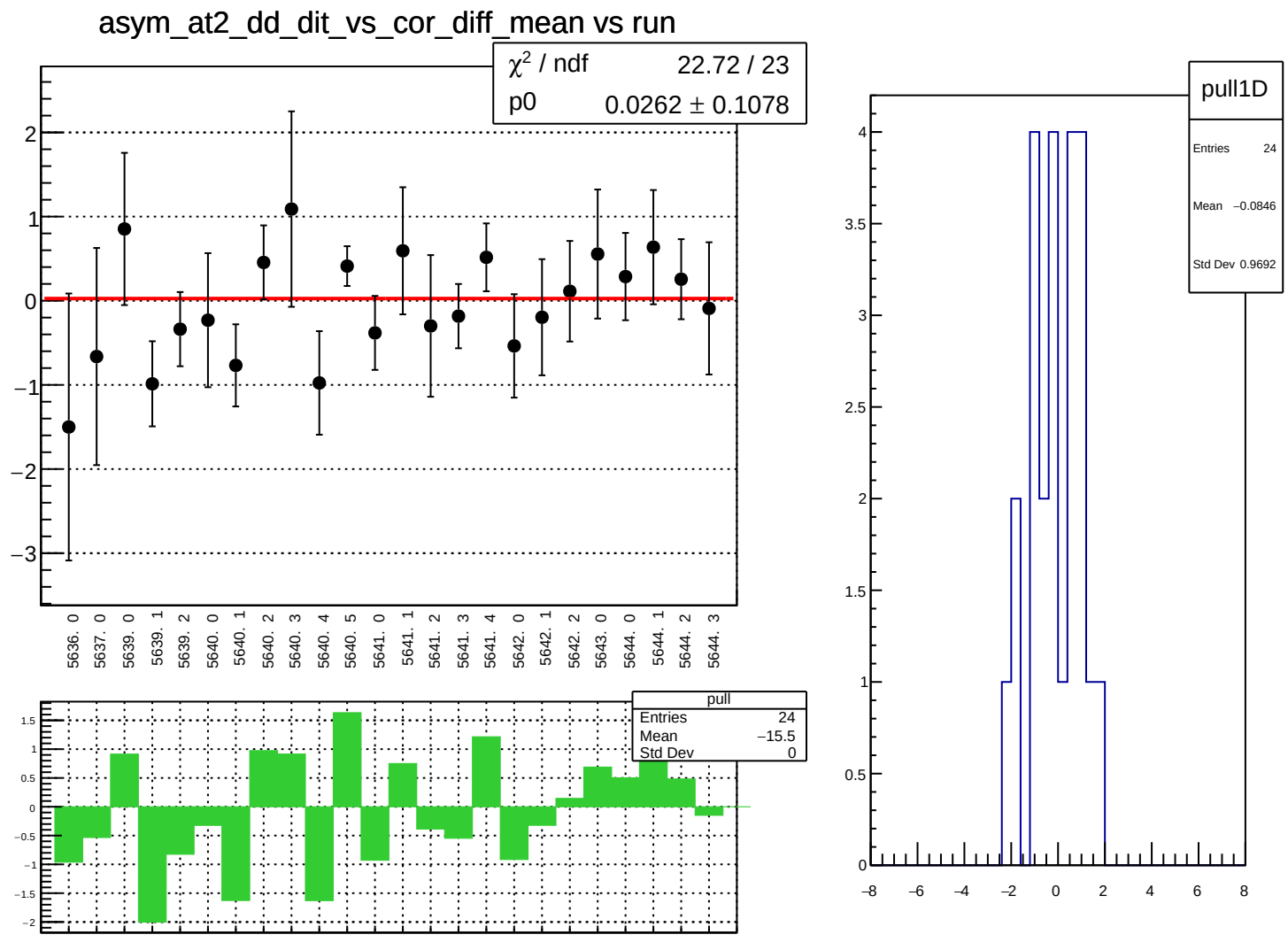

asym_at2_dd_mean vs run
χ² / ndf 20.07 / 23
p0 2713 ± 4875
80000
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 70.88
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

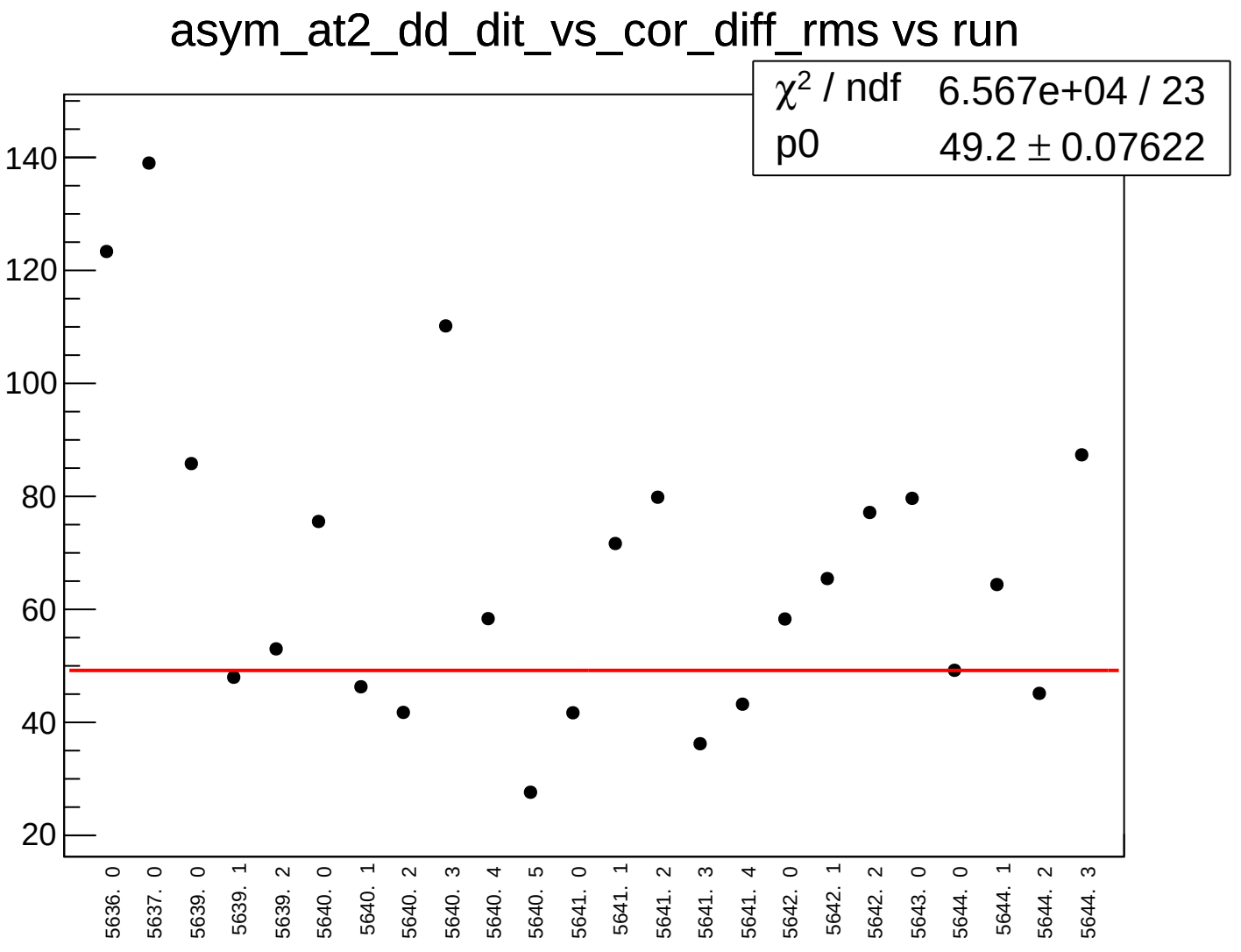

pull1D
Entries 24
Mean −0.00927
Std Dev 0.9145
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

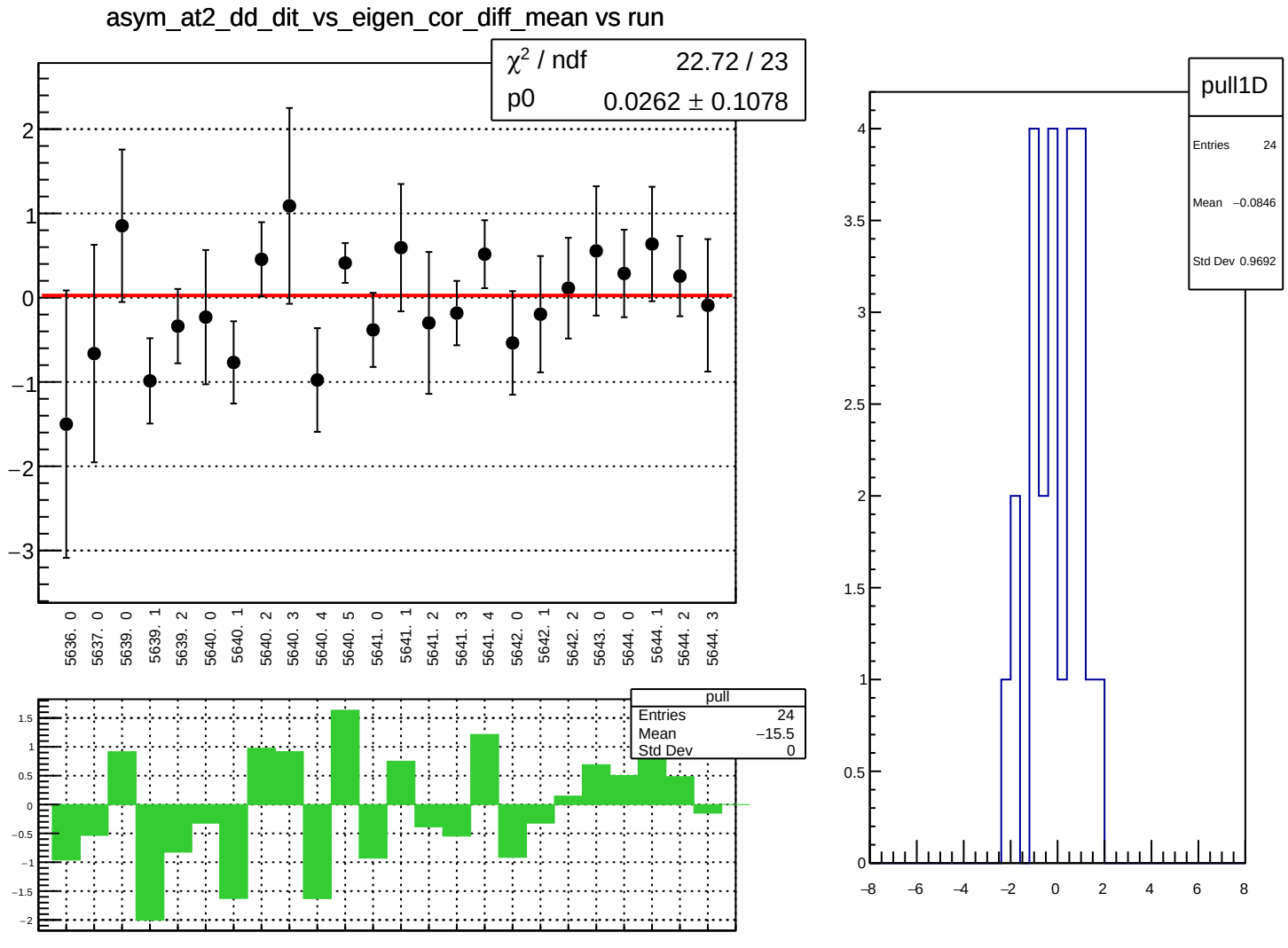

asym_at2_dd_rms vs run
χ² / ndf 487 / 23
p0 2393 ± 3.447
2600
2550
2500
2450
2400
2350
2300
2250
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

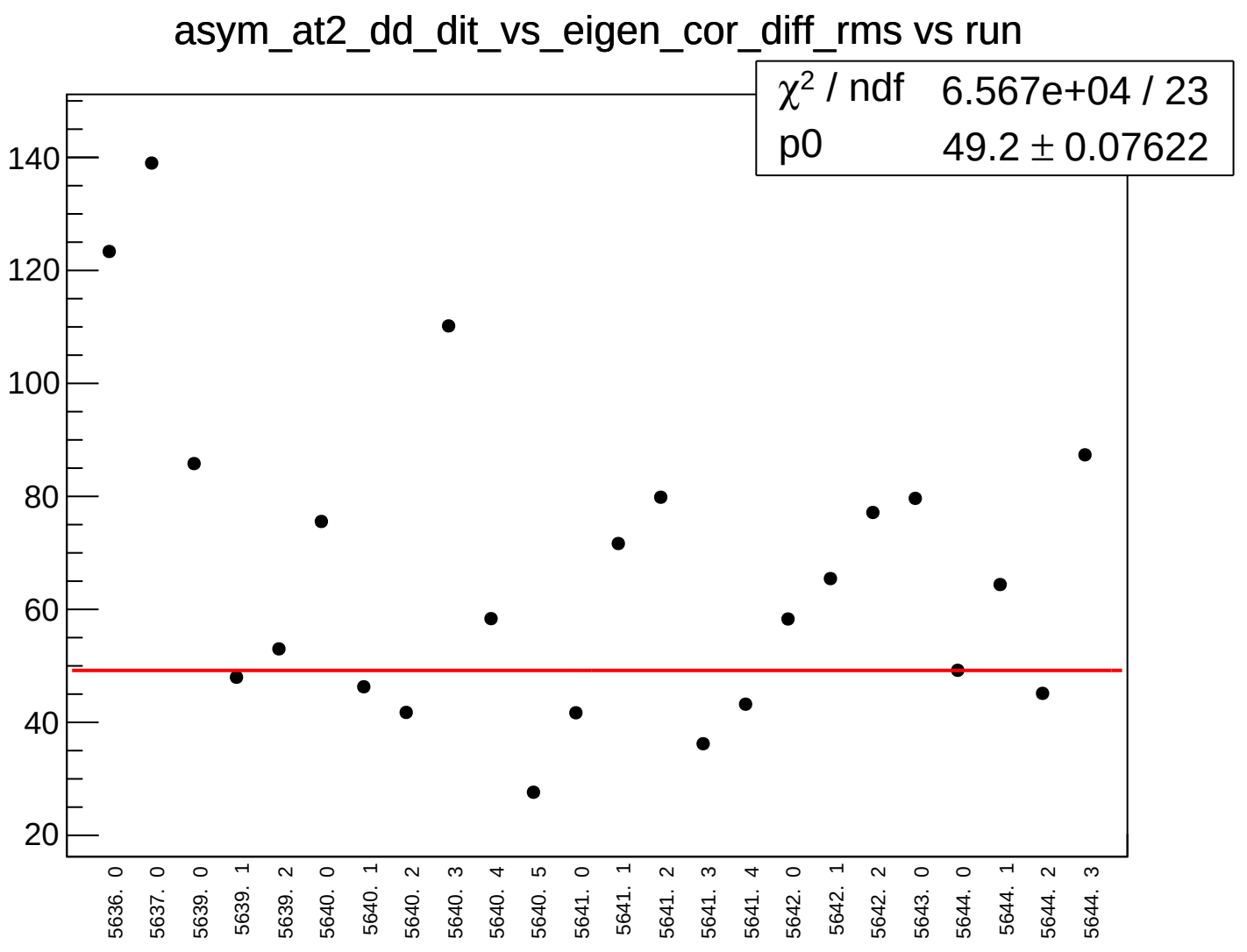

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 31.79 / 23
p0 2.449e−14 ± 1.653e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 25.8
Std Dev 0
pull1D
Entries 24
Mean 0.2447
Std Dev 1.125

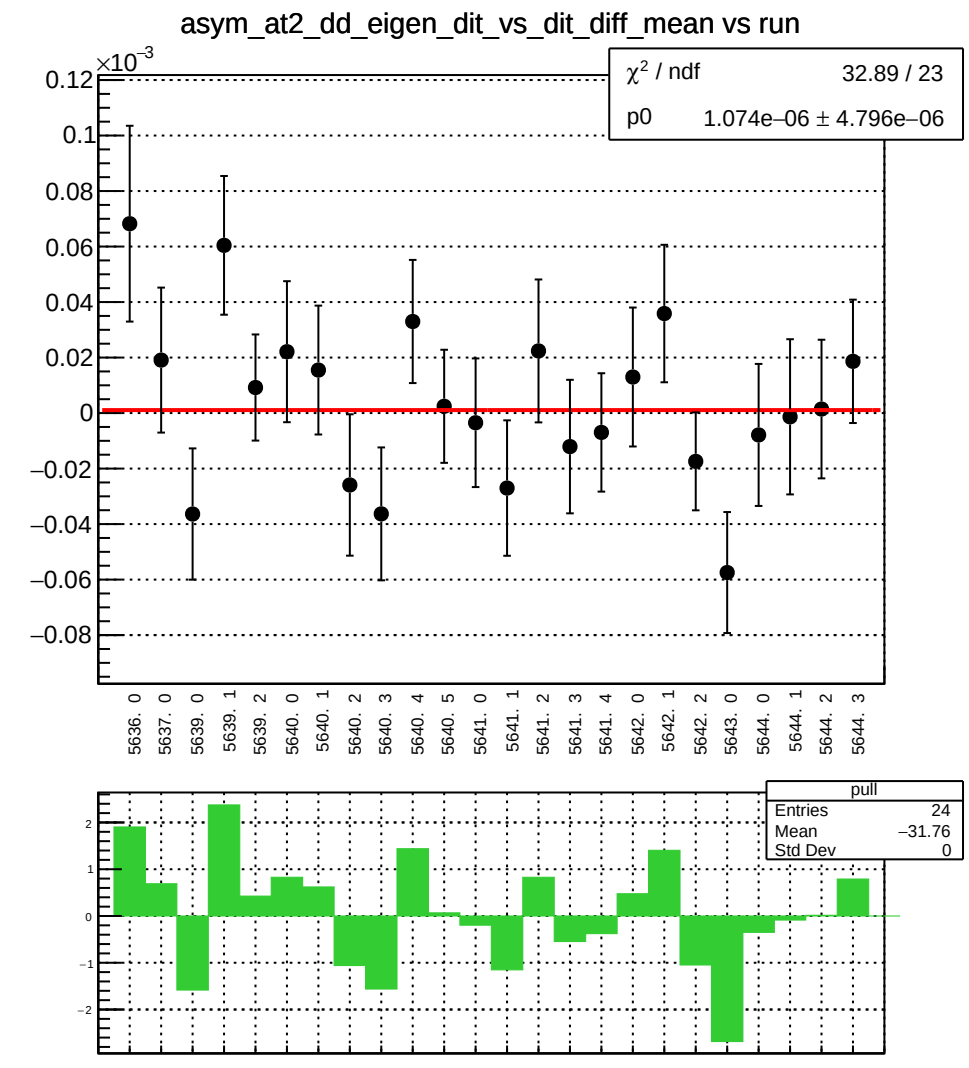

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.423e+05 / 23
p0 4.373e−11 ± 1.169e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

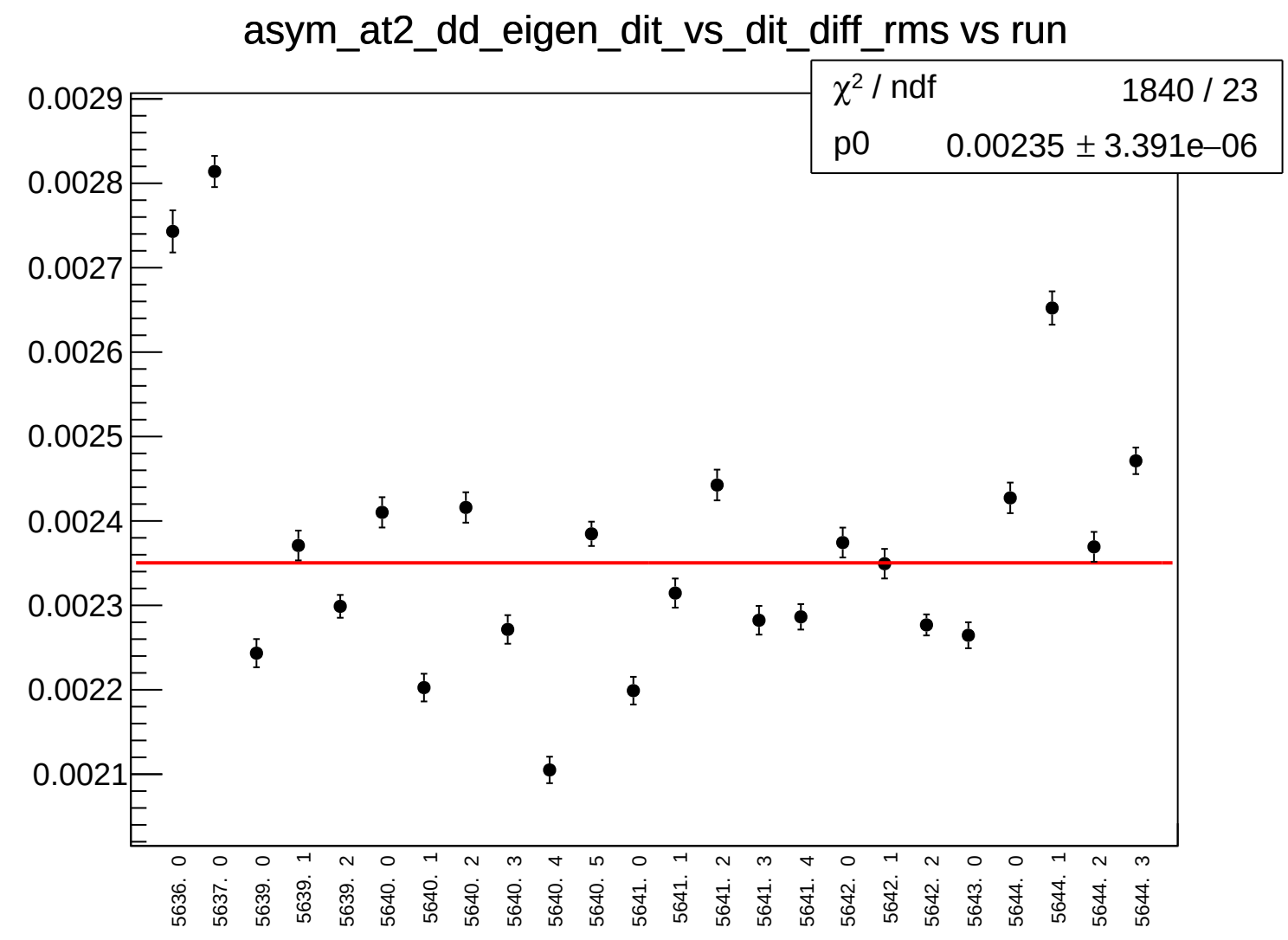

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 22.72 / 23
p0 0.0262 ± 0.1078
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −15.5
Std Dev 0
pull1D
Entries 24
Mean −0.0846
Std Dev 0.9692

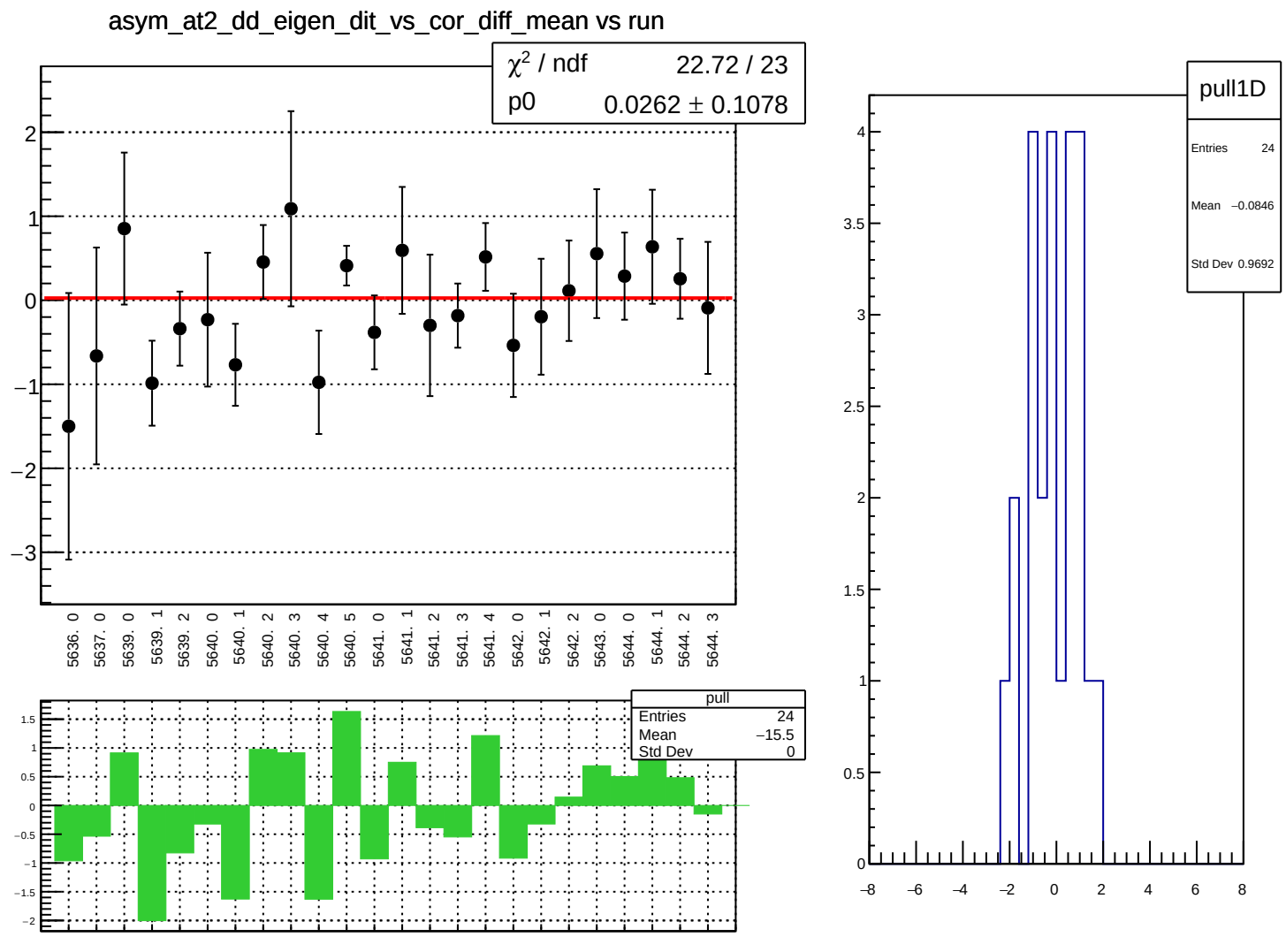

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.567e+04 / 23
p0 49.2 ± 0.07622
140
120
100
80
60
40
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

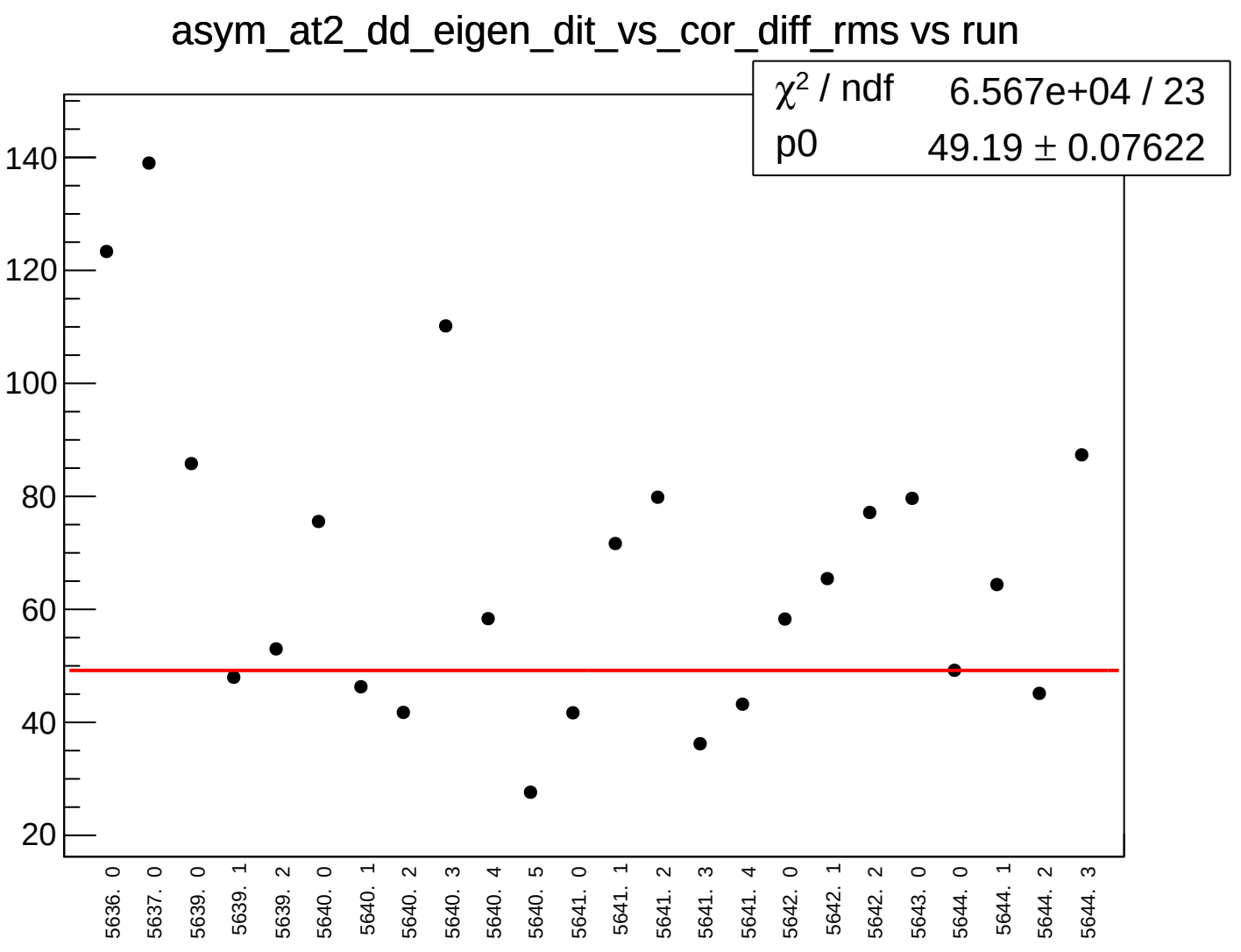

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 22.72 / 23
p0 0.0262 ± 0.1078
2
1
0
−1
−2
−3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −15.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.0846
Std Dev 0.9692
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

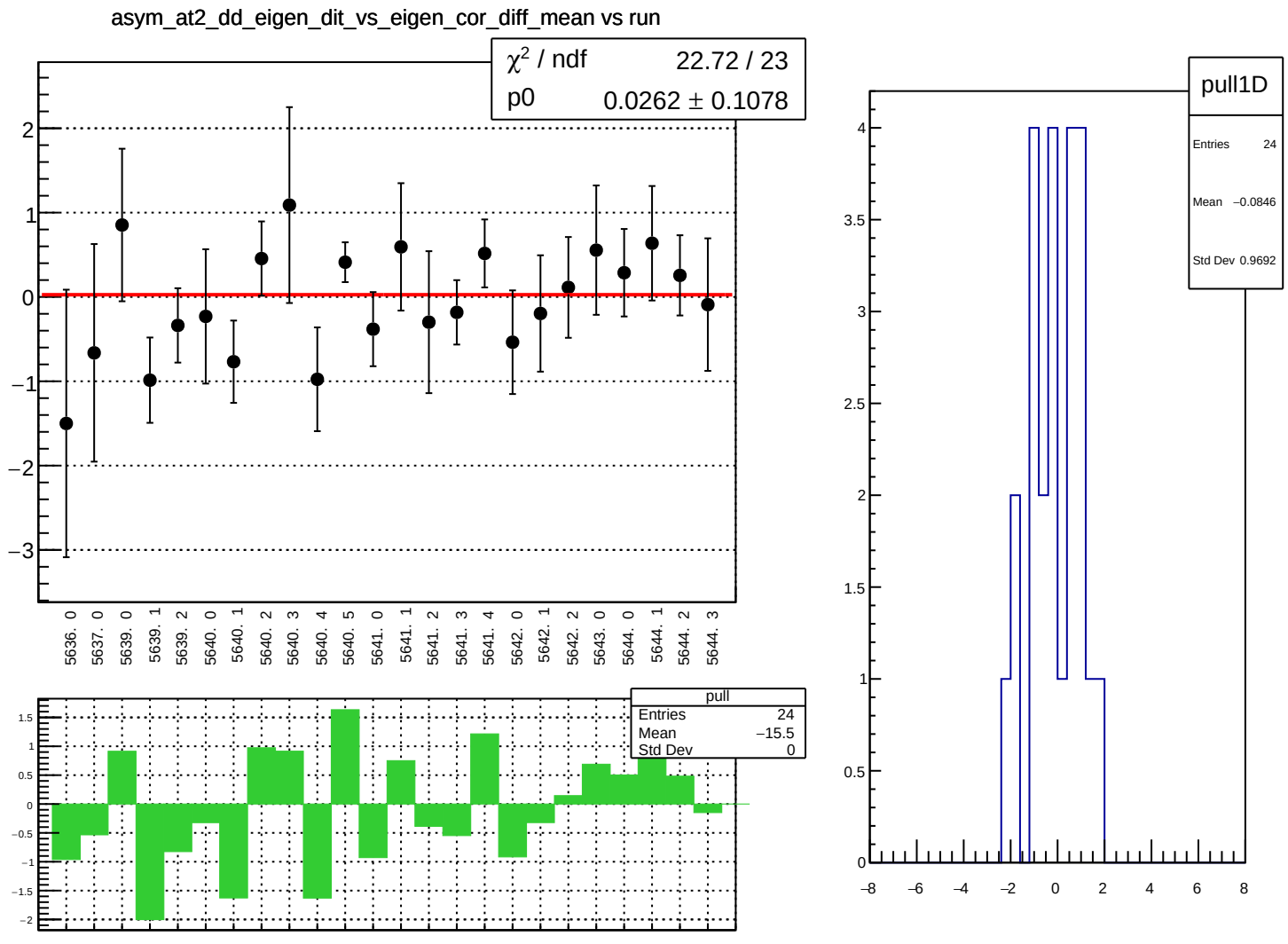

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.567e+04 / 23
p0 49.2 ± 0.07622
140
120
100
80
60
40
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

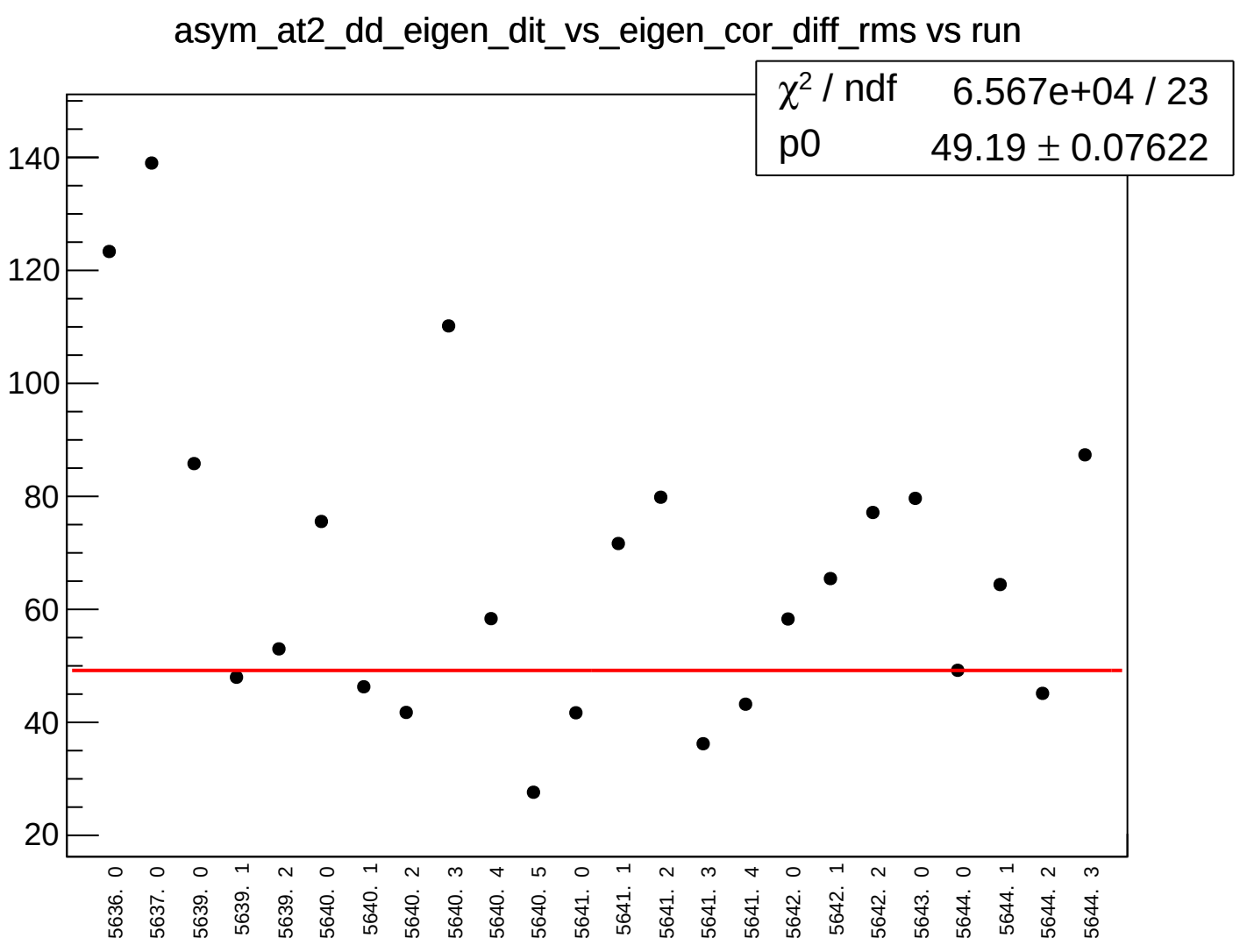

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 32.89 / 23
p0 1.074e−06 ± 4.796e−06
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −31.76
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 24
Mean 0.05074
Std Dev 1.17
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

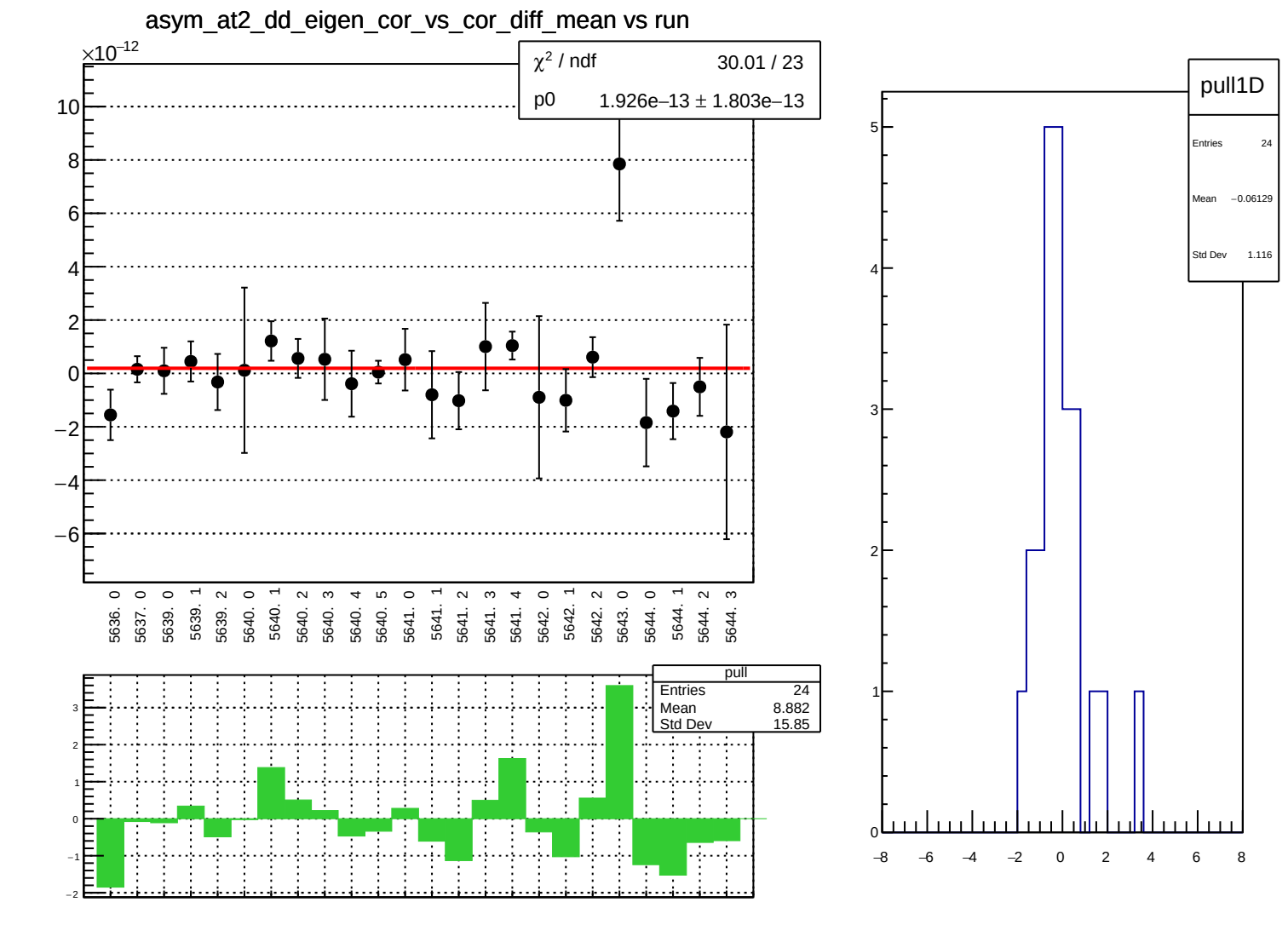

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1840 / 23
p0 0.00235 ± 3.391e–06
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

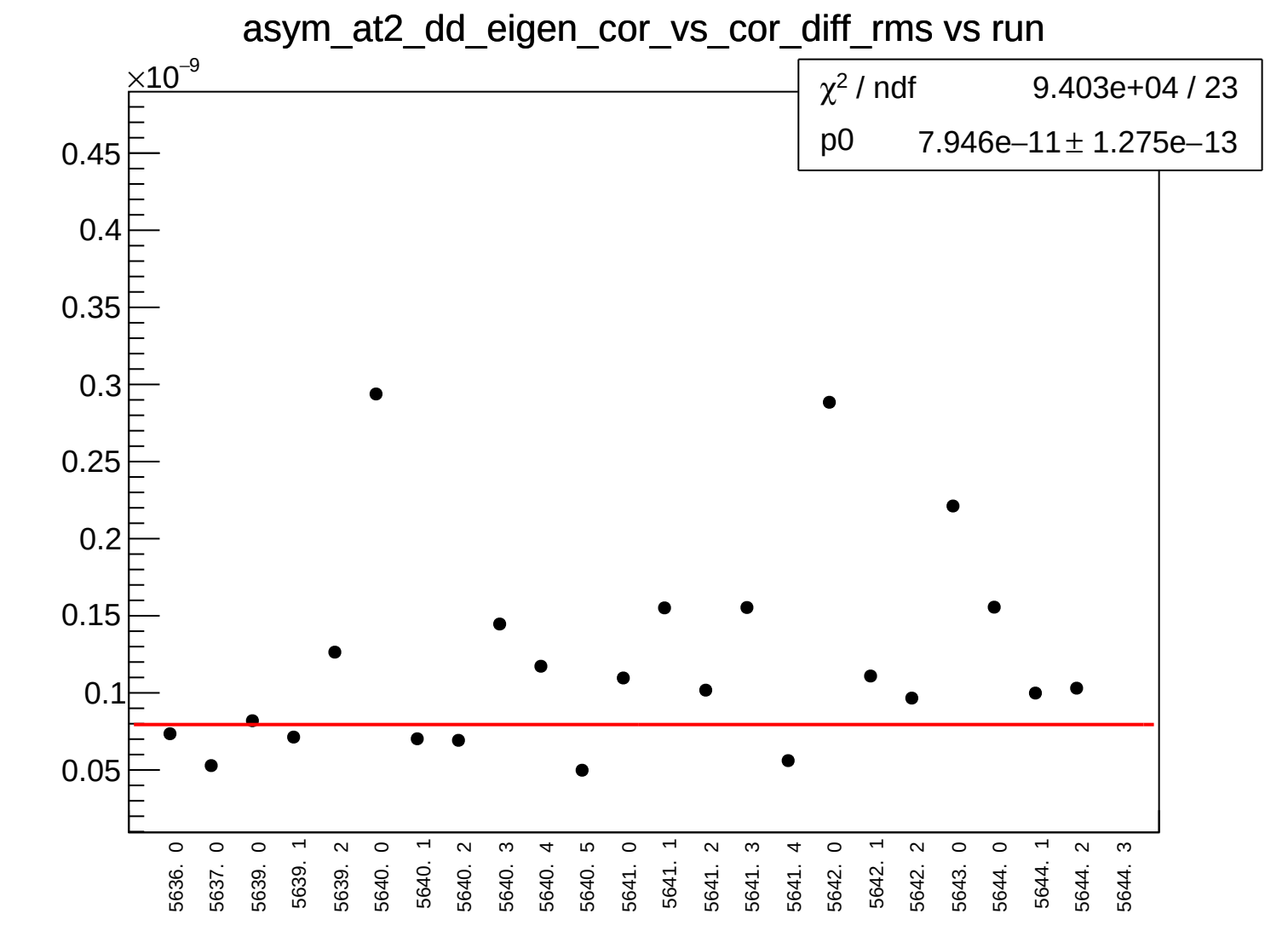

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 22.72 / 23
p0 0.0262 ± 0.1078
2
1
0
−1
−2
−3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −15.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.0846
Std Dev 0.9692
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

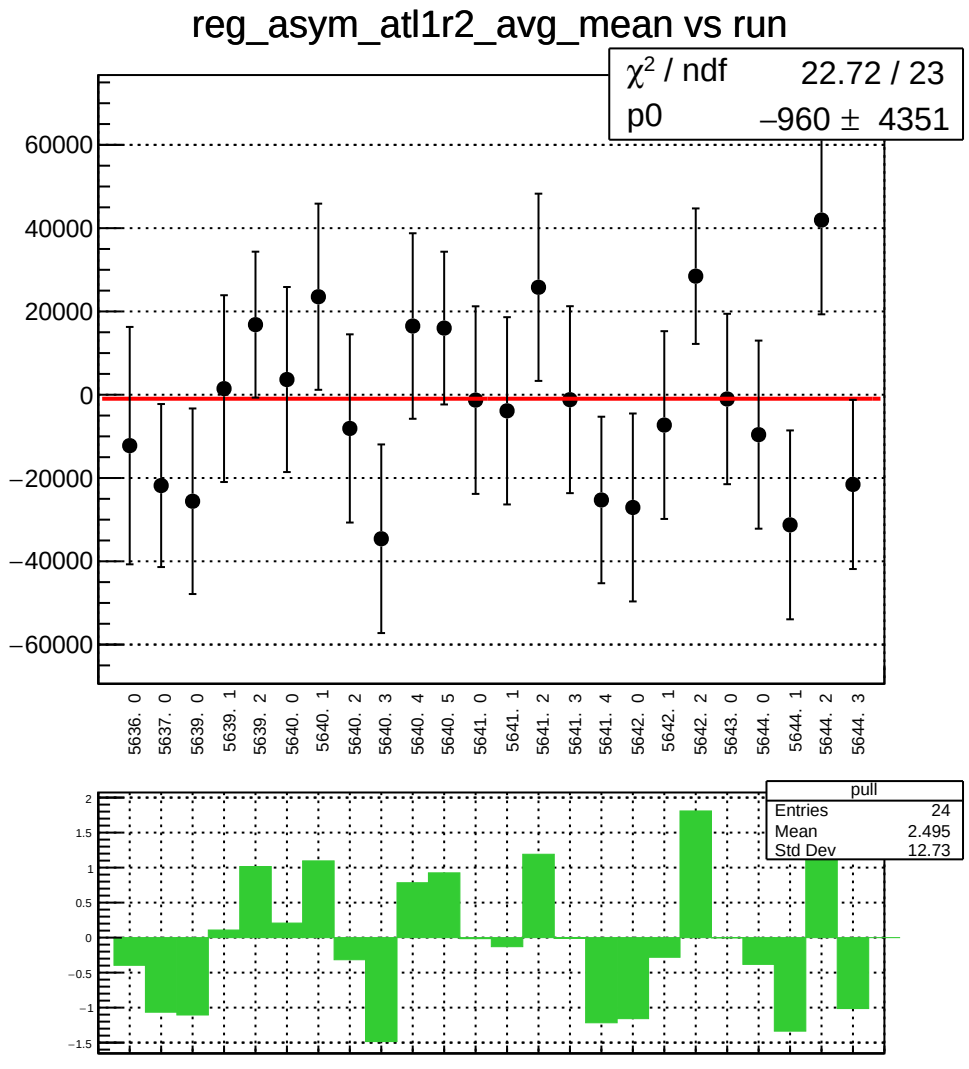

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.567e+04 / 23
p0 49.19 ± 0.07622
140
120
100
80
60
40
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

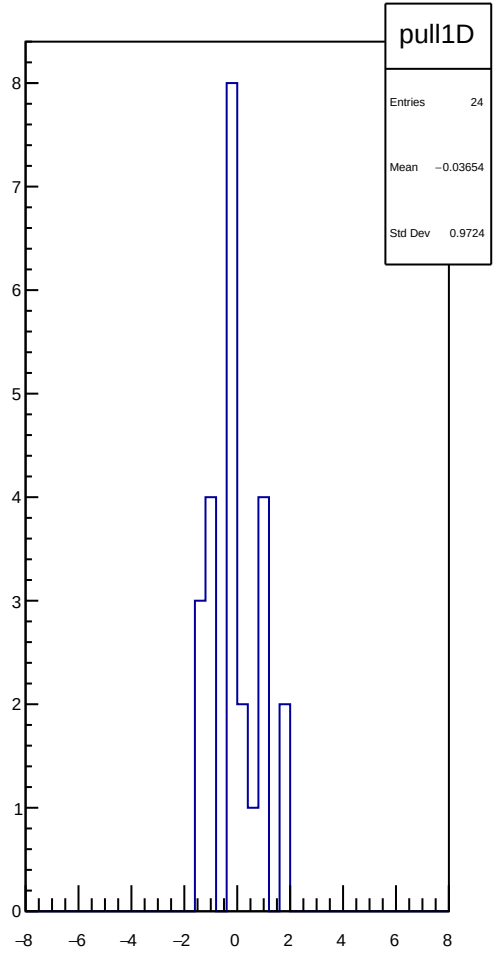

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 22.72 / 23
p0 0.0262 ± 0.1078
2
1
0
−1
−2
−3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −15.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.0846
Std Dev 0.9692
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

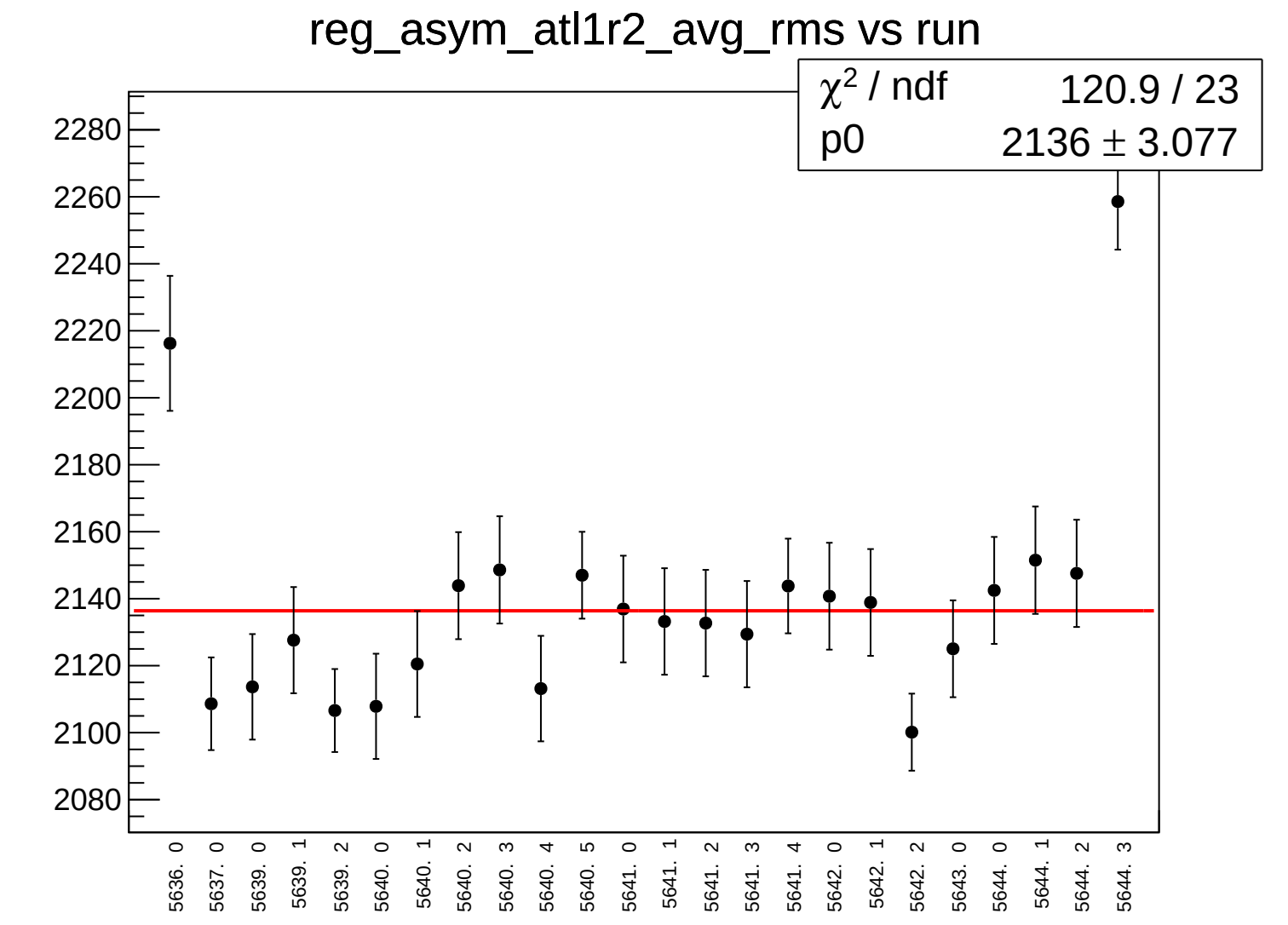

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.567e+04 / 23
p0 49.19 ± 0.07622
140
120
100
80
60
40
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

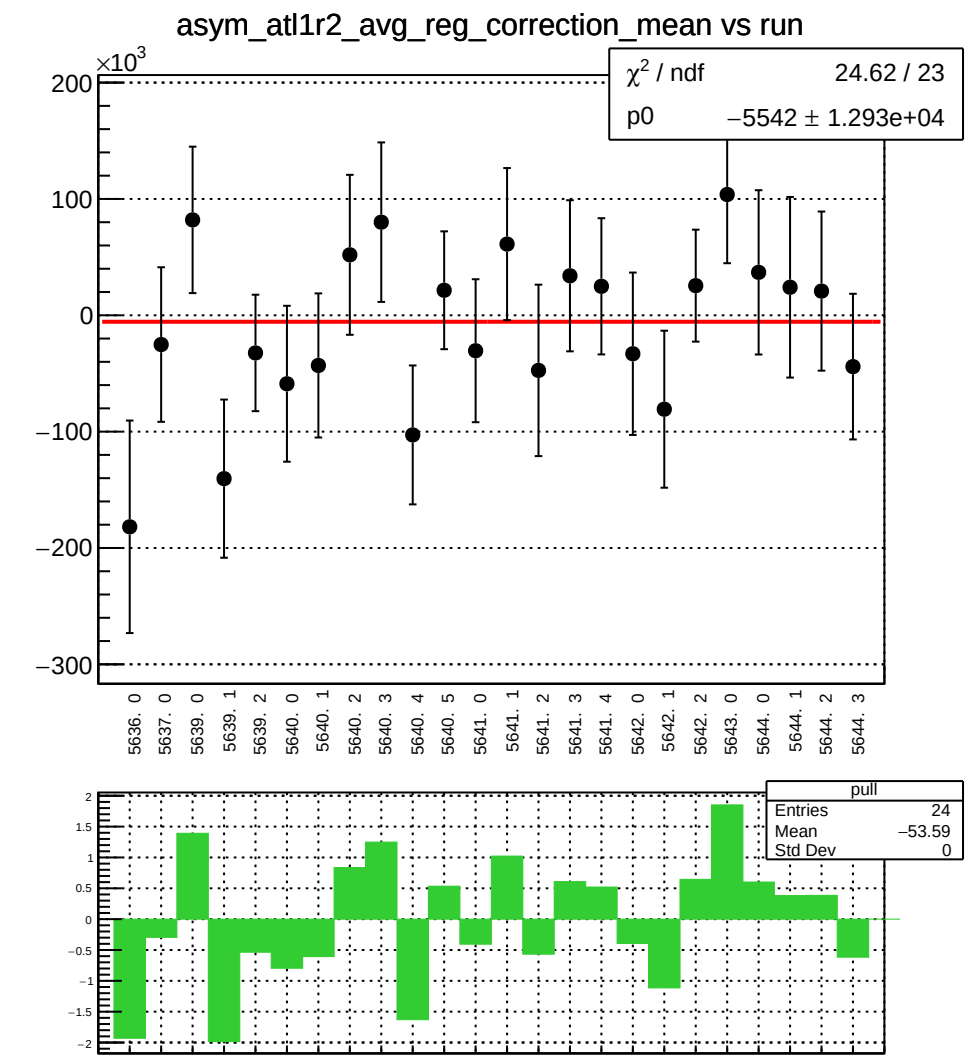

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 30.01 / 23
p0 1.926e−13 ± 1.803e−13
10
8
6
4
2
0
−2
−4
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 8.882
Std Dev 15.85
pull1D
Entries 24
Mean −0.06129
Std Dev 1.116

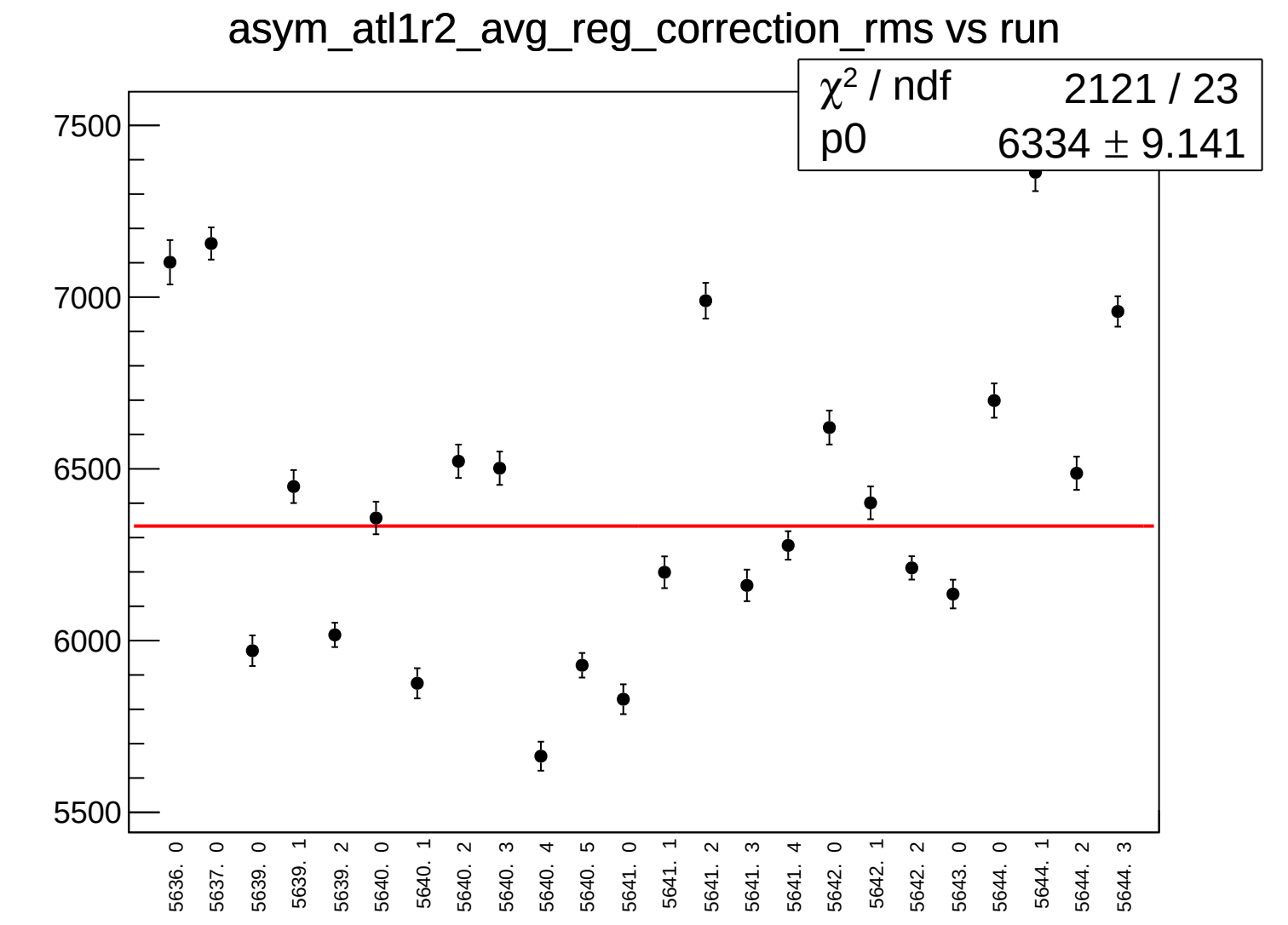

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.403e+04 / 23
p0 7.946e−11 ± 1.275e−13
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

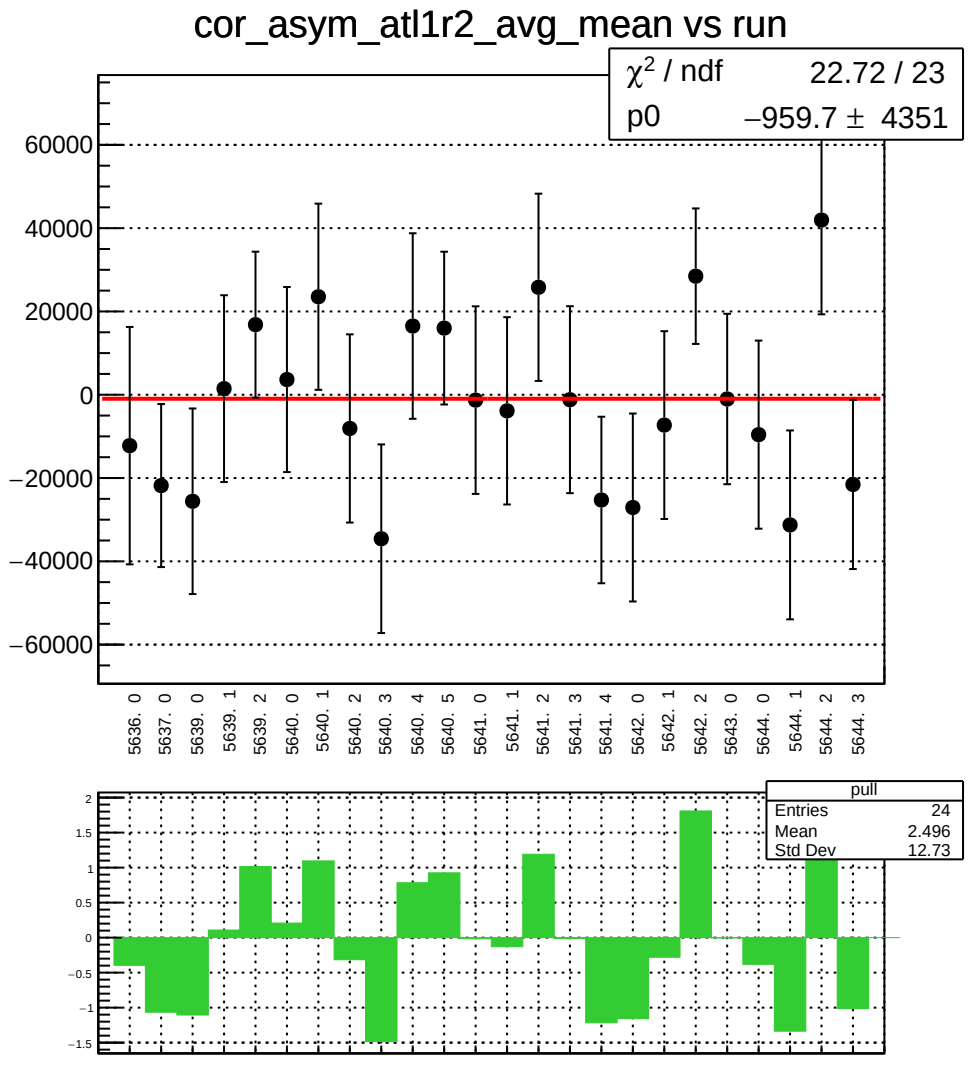

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 22.72 / 23
p0 −960 ± 4351
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 2.495
Std Dev 12.73
2
1.5
1
0.5
0
−0.5
−1
−1.5

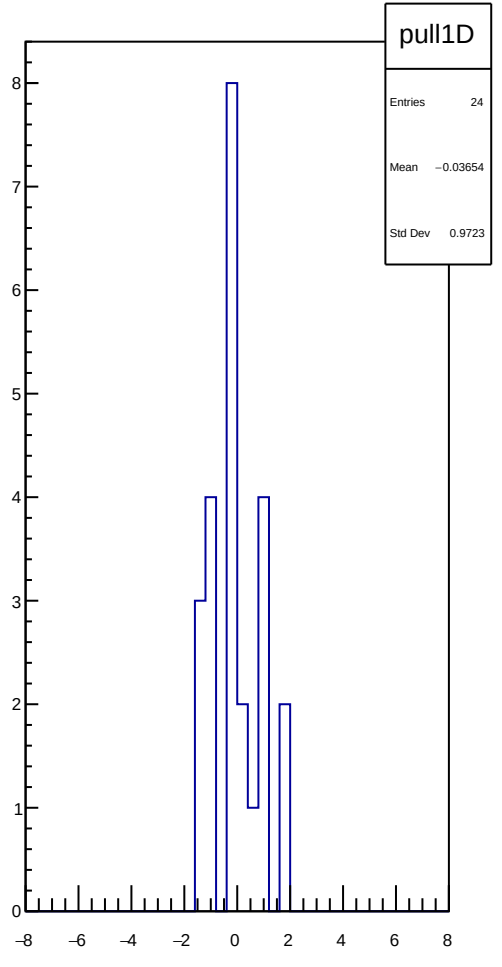

pull1D
Entries 24
Mean −0.03654
Std Dev 0.9724
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

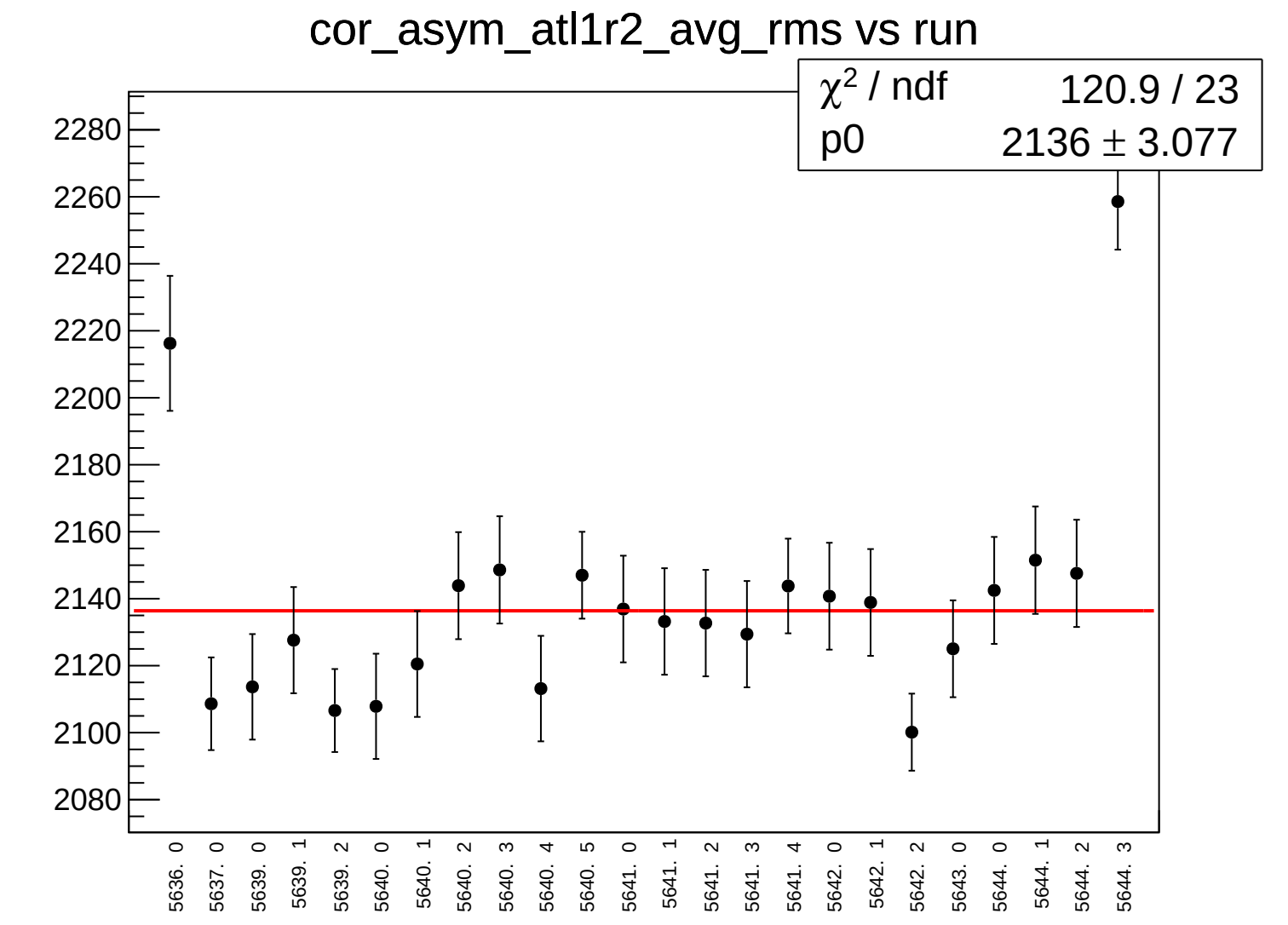

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 120.9 / 23
p0 2136 ± 3.077
2280
2260
2240
2220
2200
2180
2160
2140
2120
2100
2080
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

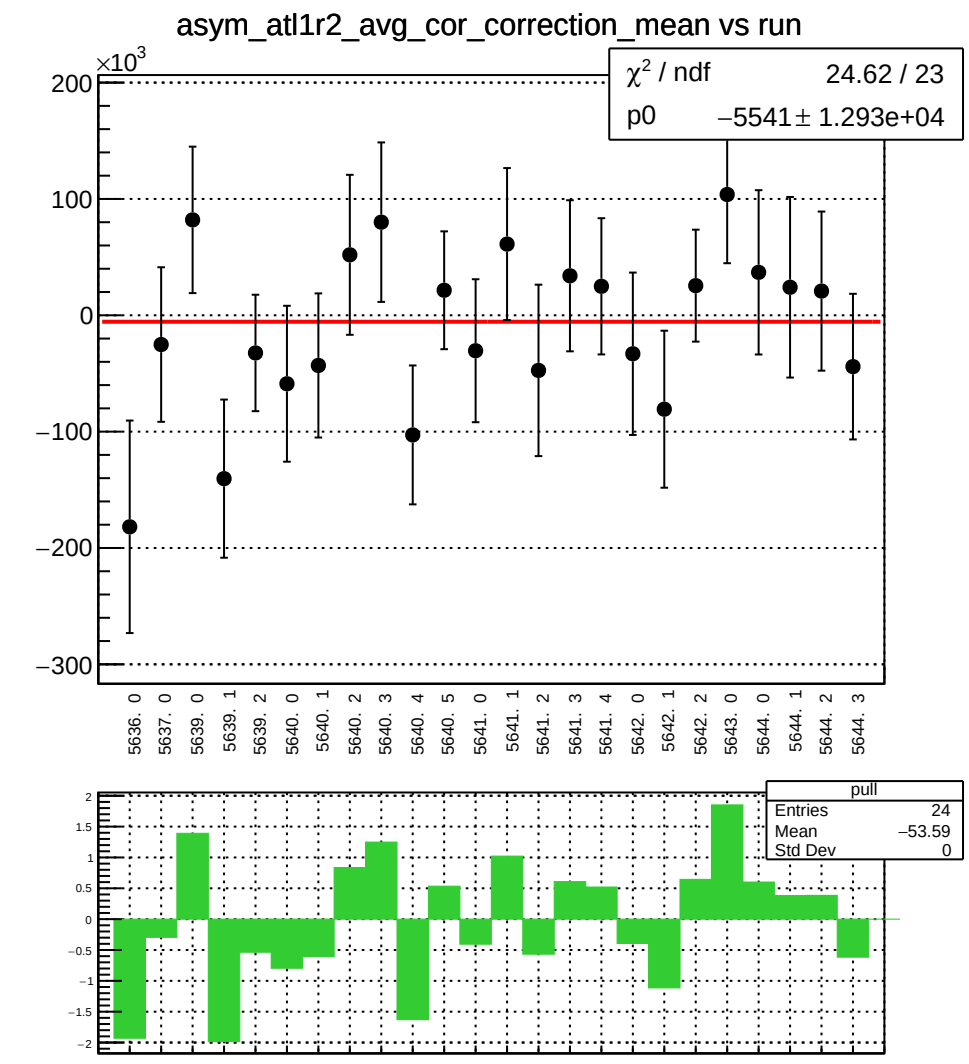

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 24.62 / 23
p0 −5542 ± 1.293e+04
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −53.59
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.03537
Std Dev 1.012
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

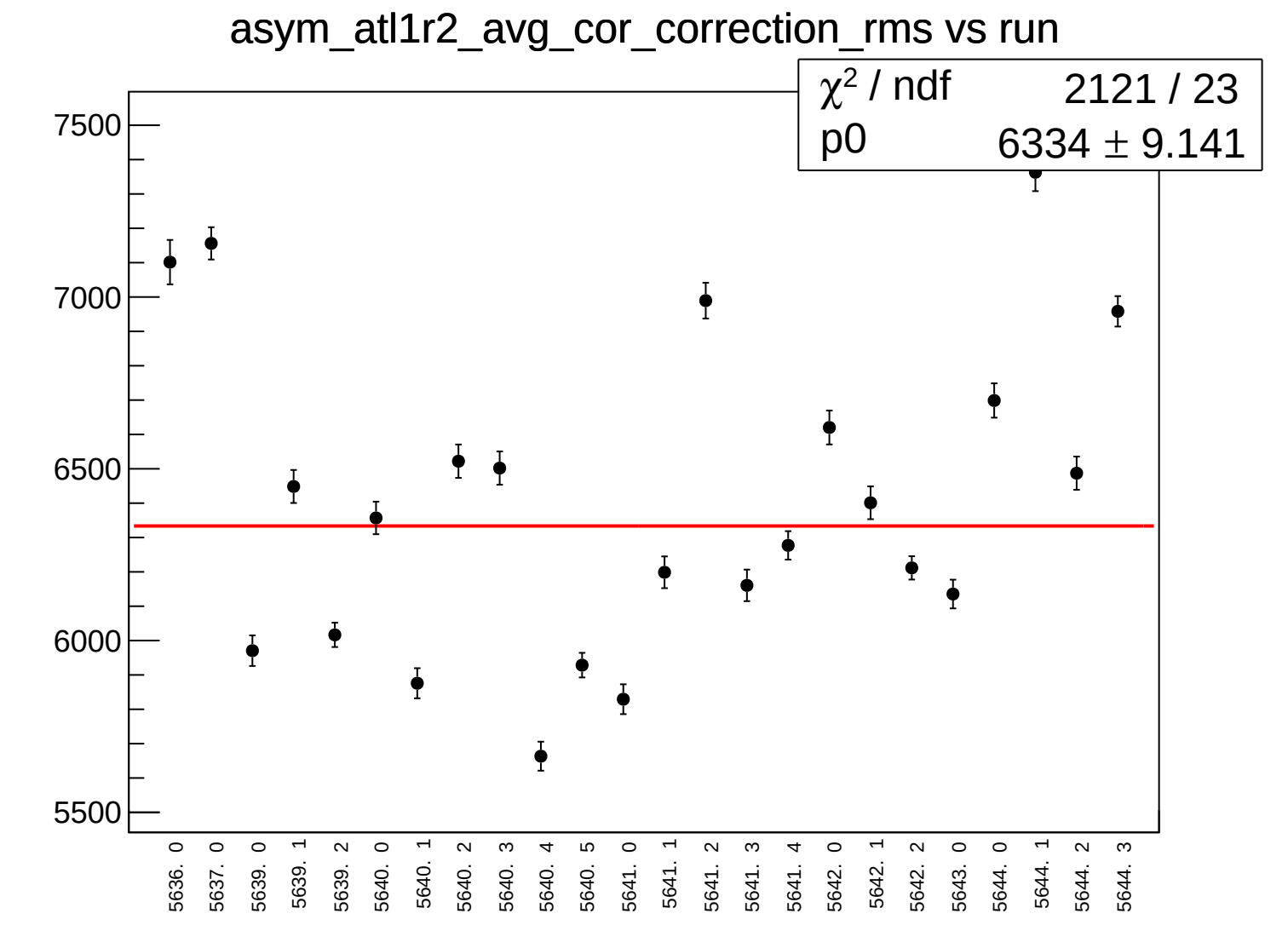

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 2121 / 23
p0 6334 ± 9.141
7500
7000
6500
6000
5500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

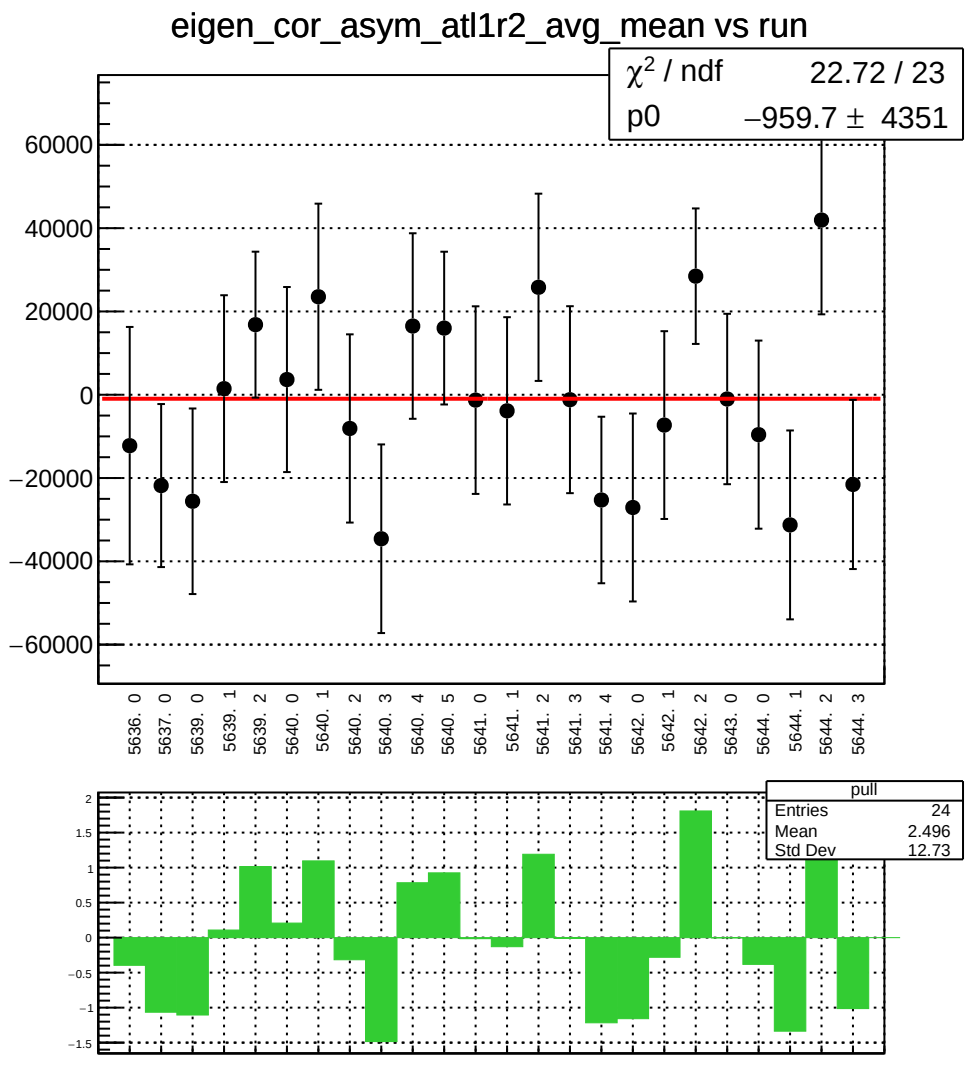

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 22.72 / 23
p0 −959.7 ± 4351
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 2.496
Std Dev 12.73
2
1.5
1
0.5
0
−0.5
−1
−1.5

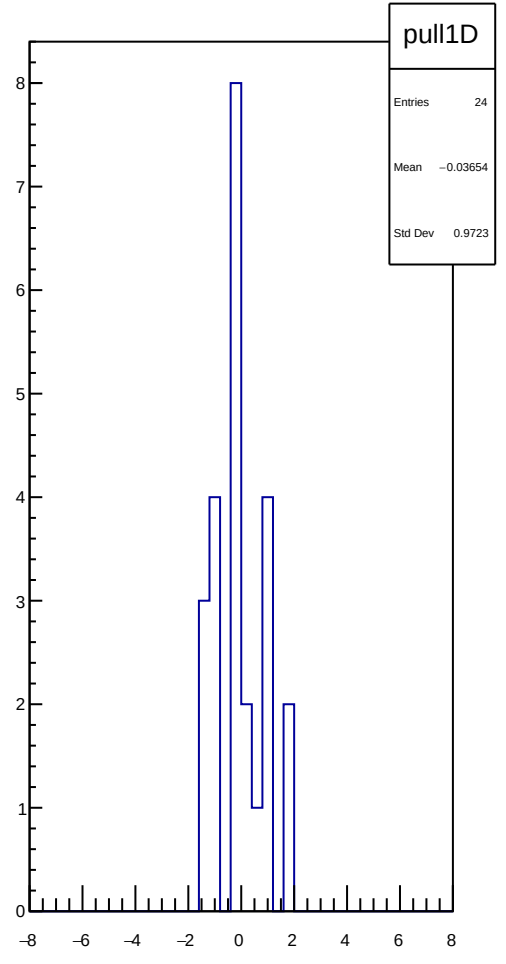

pull1D
Entries 24
Mean −0.03654
Std Dev 0.9723
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

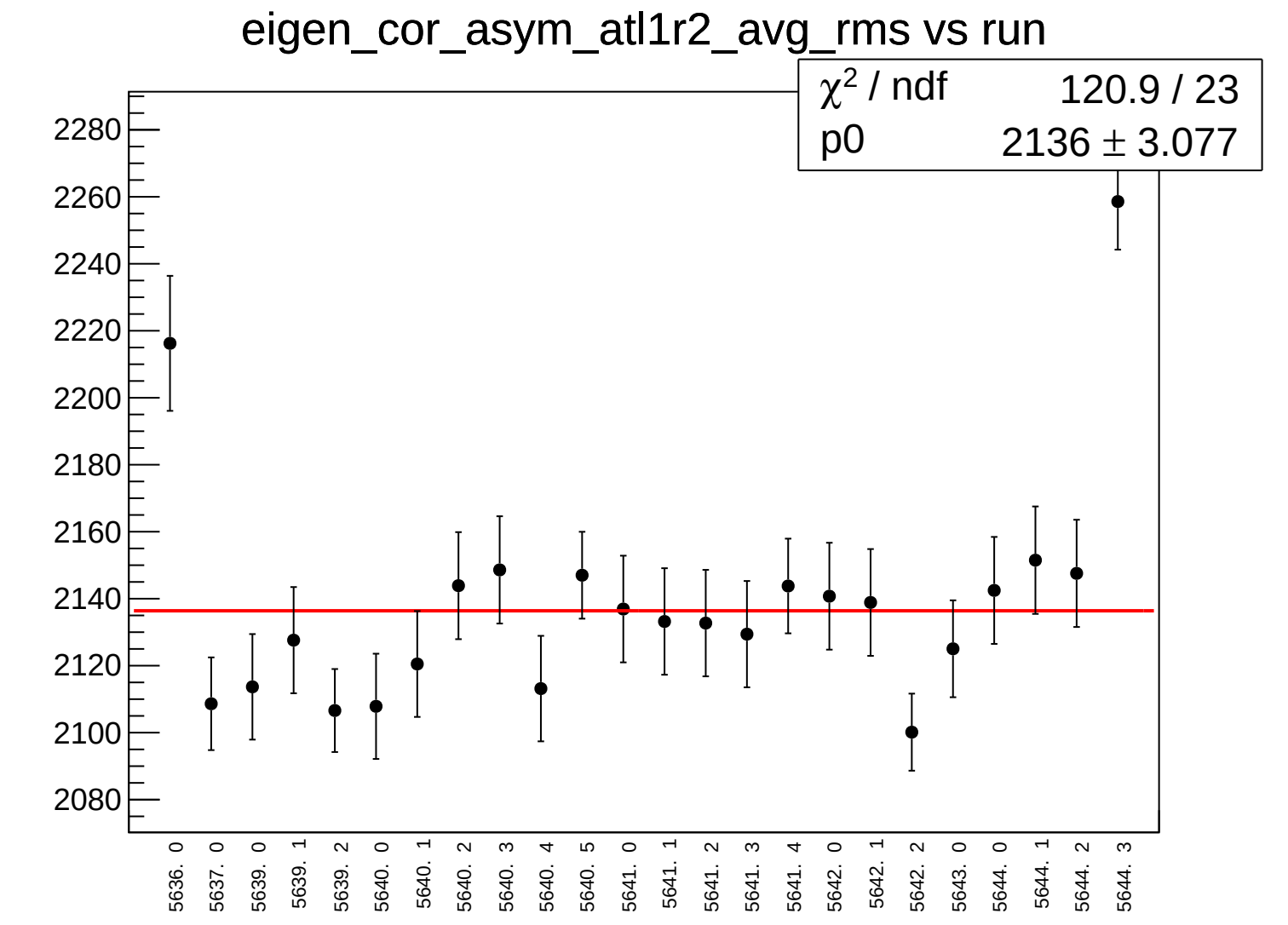

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 120.9 / 23
p0 2136 ± 3.077
2280
2260
2240
2220
2200
2180
2160
2140
2120
2100
2080
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 24.62 / 23
p0 −5541 ± 1.293e+04
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −53.59
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.03537
Std Dev 1.012
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 2121 / 23
p0 6334 ± 9.141
7500
7000
6500
6000
5500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 22.72 / 23
p0 −959.7 ± 4351
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 2.496
Std Dev 12.73
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean −0.03654
Std Dev 0.9723
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 120.9 / 23
p0 2136 ± 3.077
2280
2260
2240
2220
2200
2180
2160
2140
2120
2100
2080
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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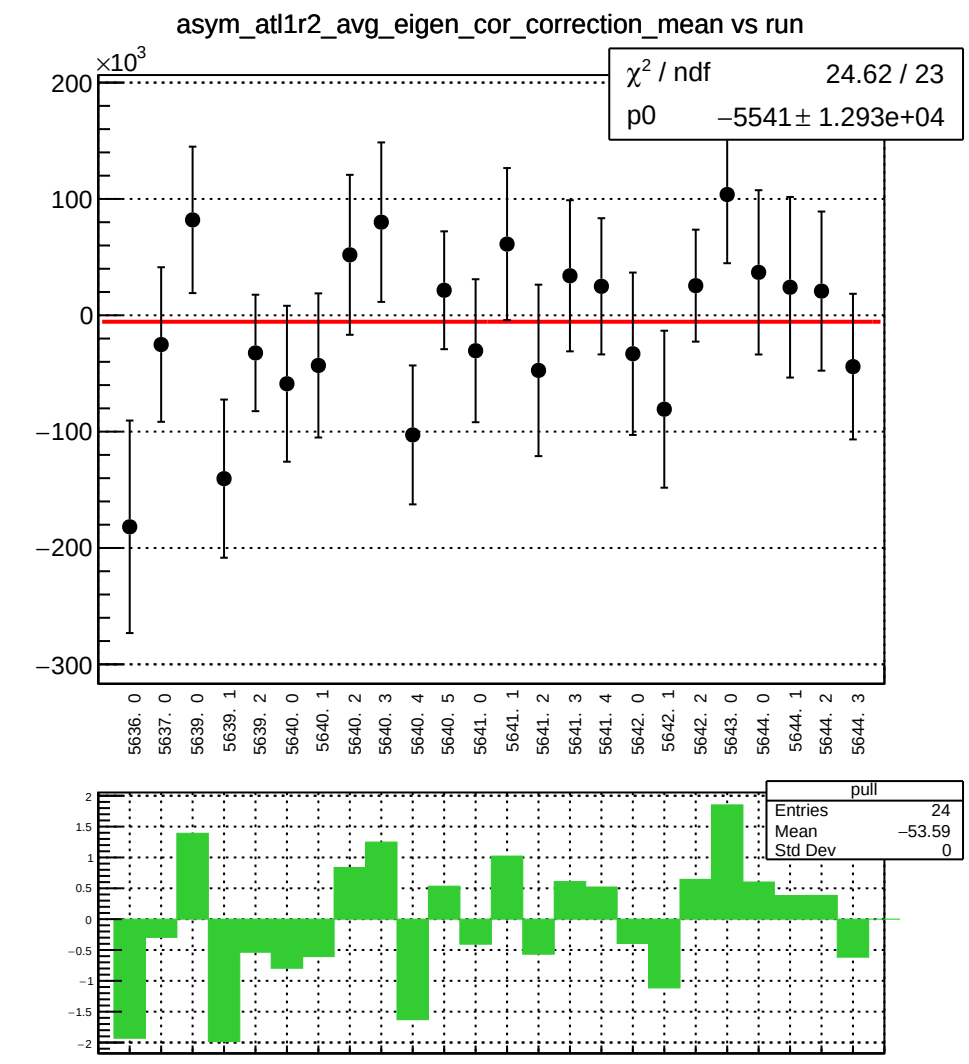
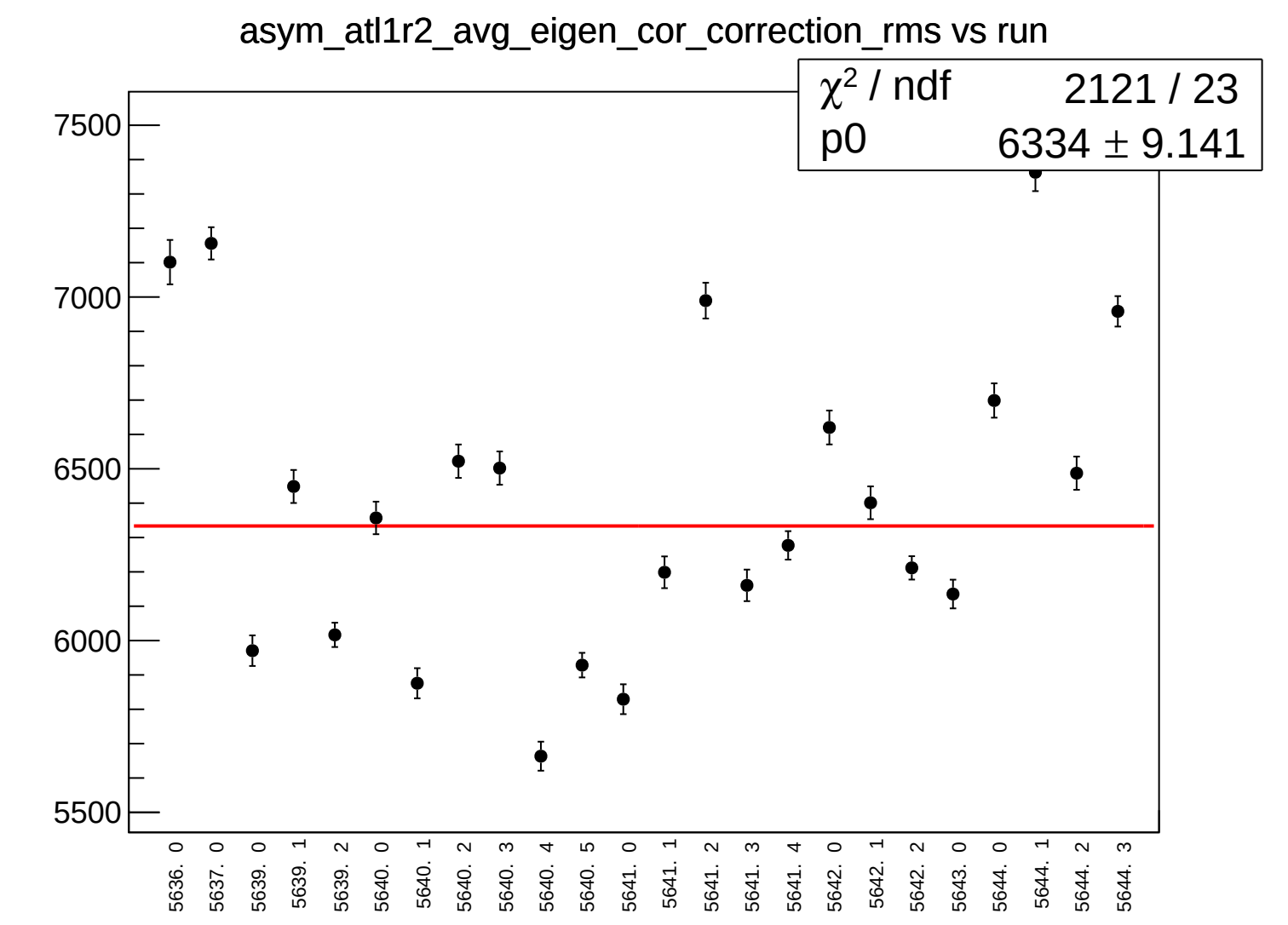
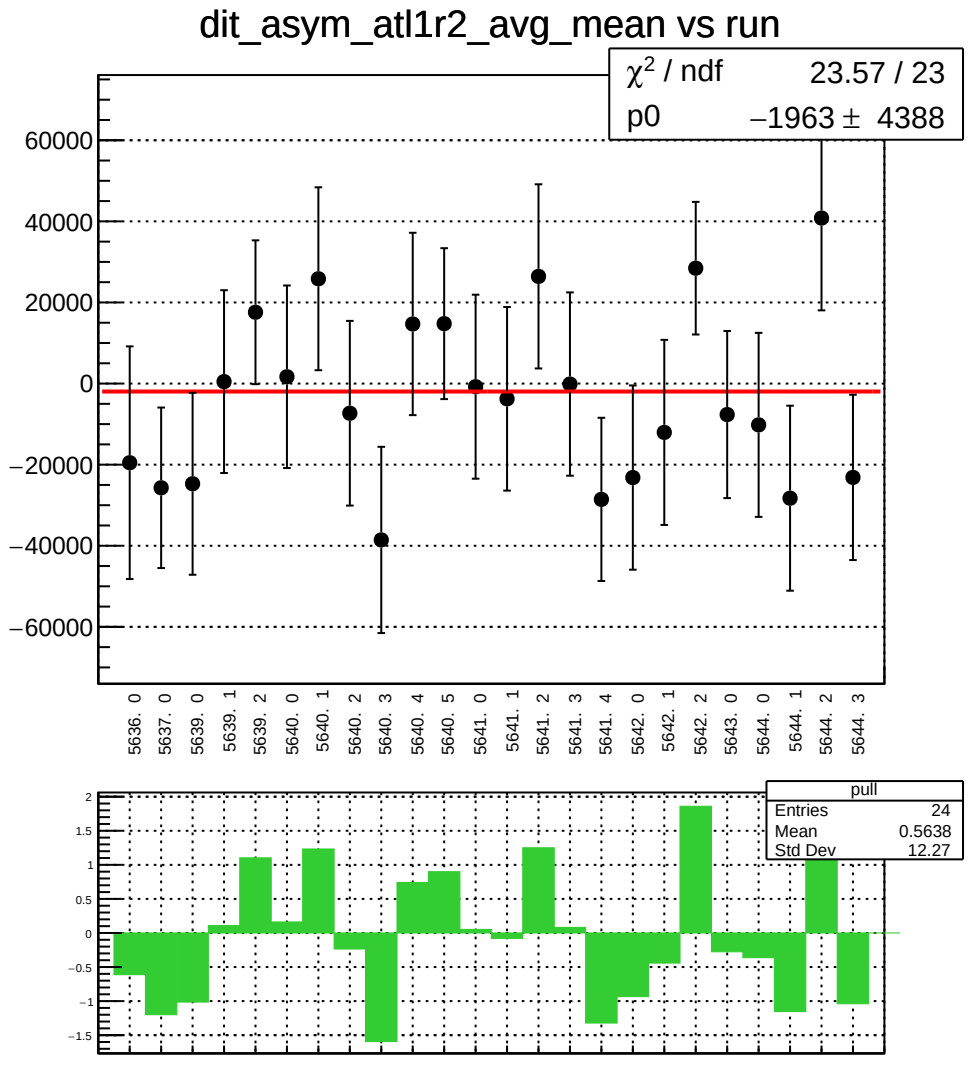
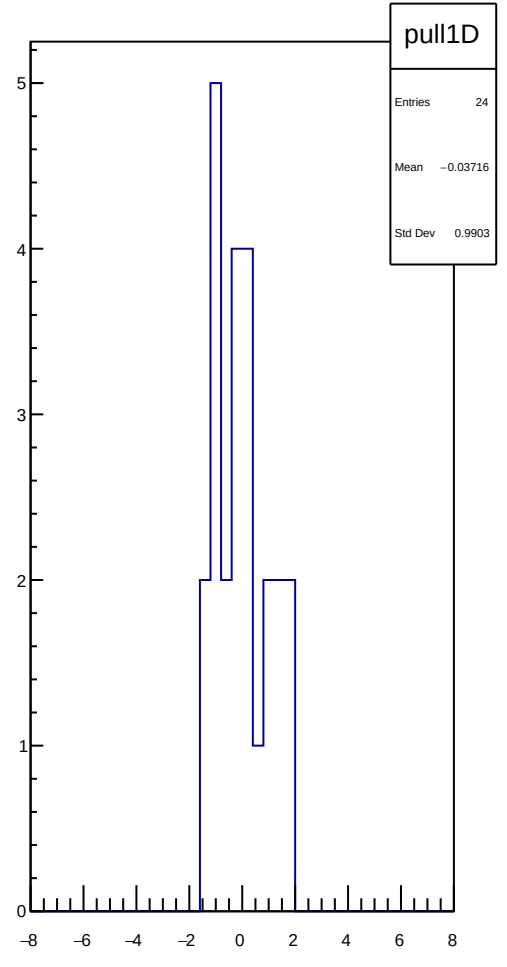
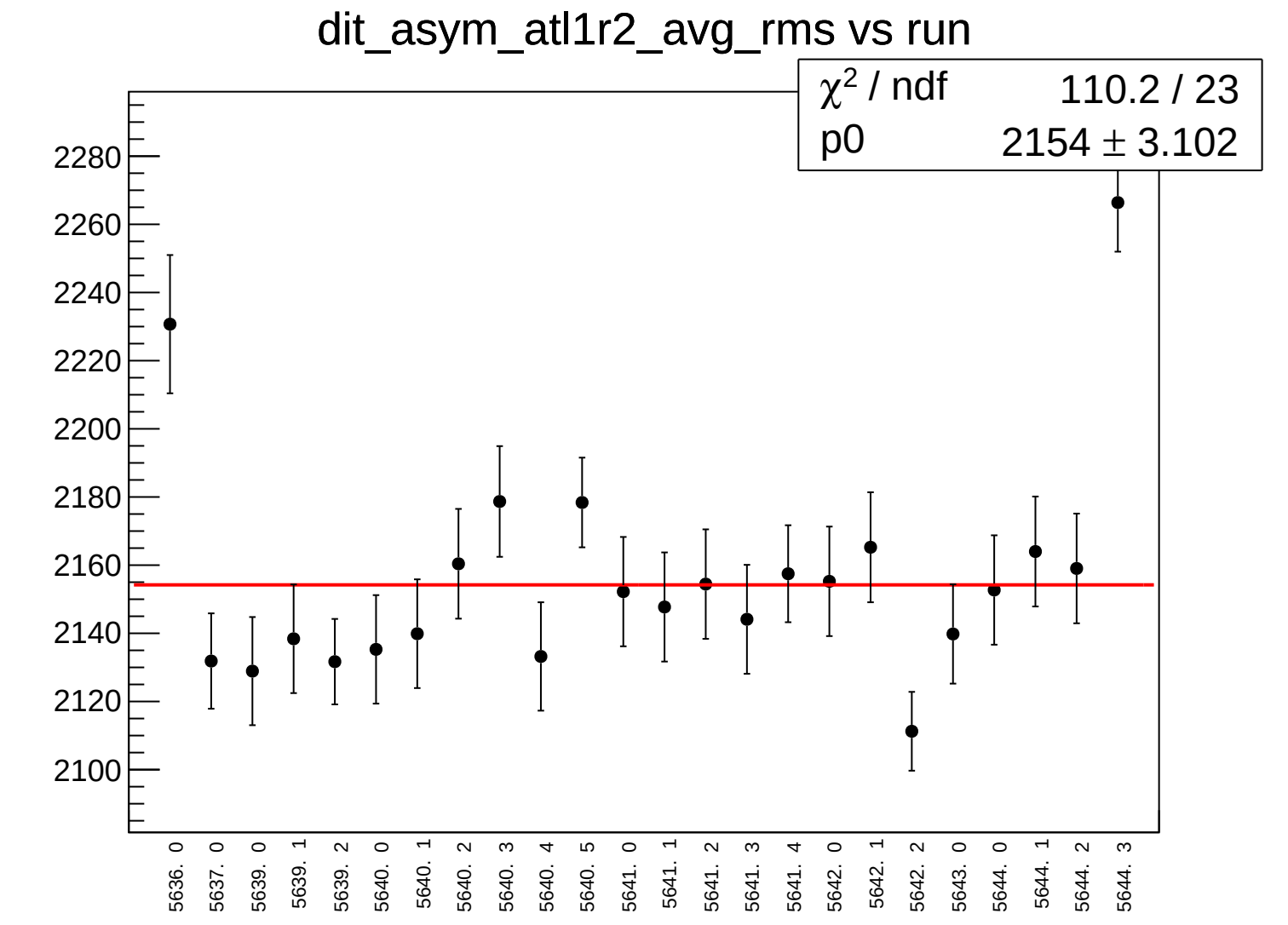
5644. 2
5644. 3

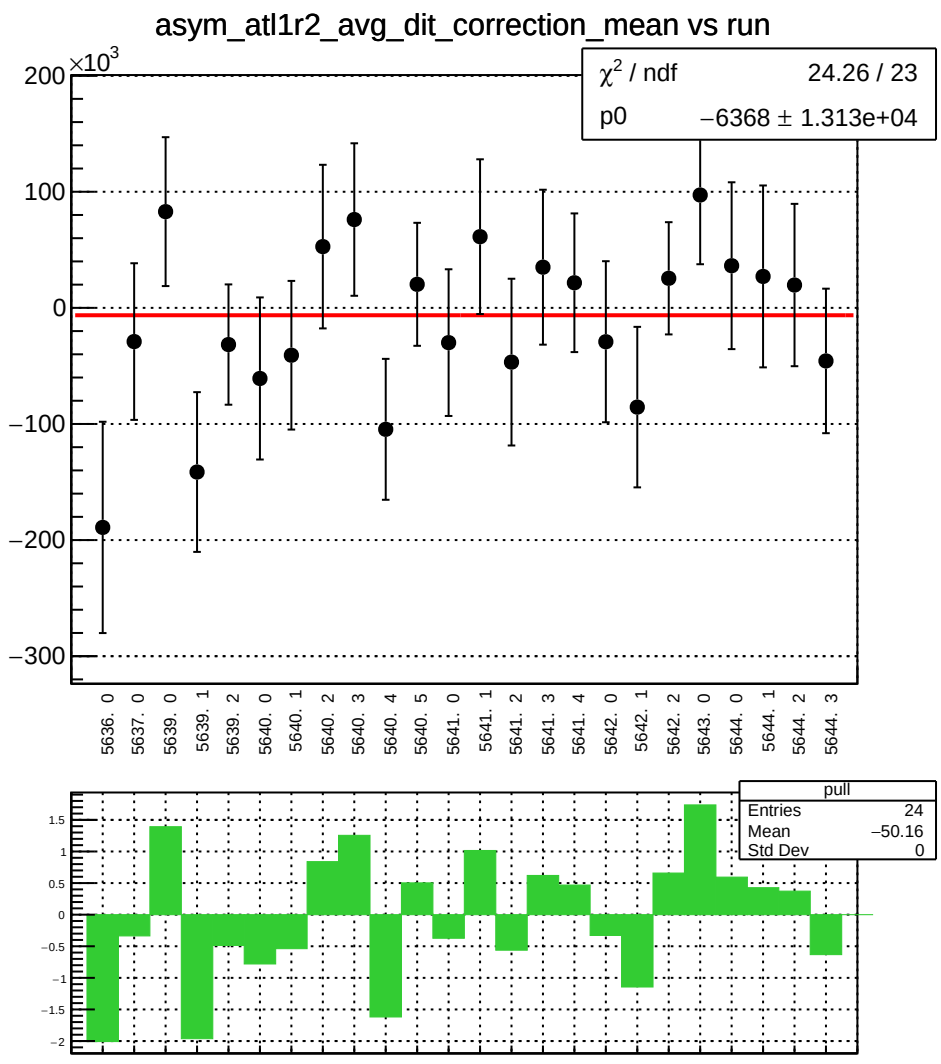

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 24.62 / 23
p0 −5541 ± 1.293e+04
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −53.59
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.03537
Std Dev 1.012
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

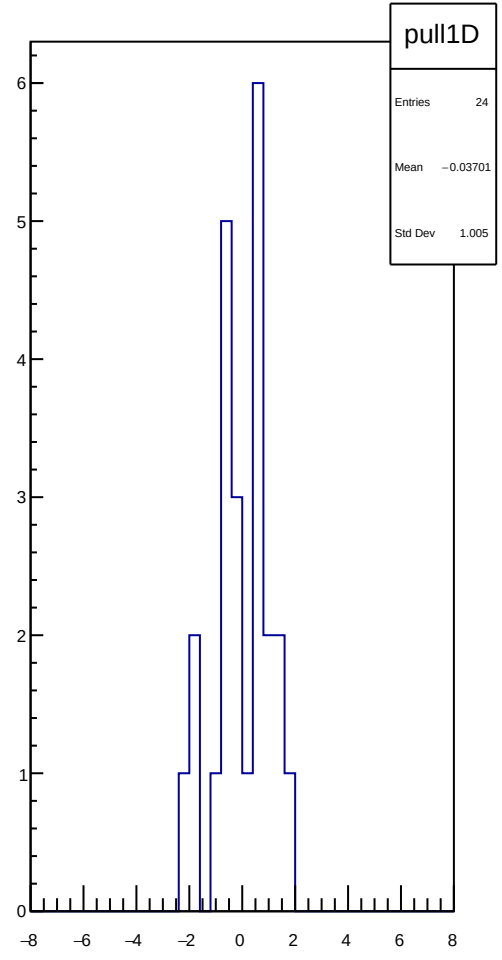

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 2121 / 23
p0 6334 ± 9.141
7500
7000
6500
6000
5500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

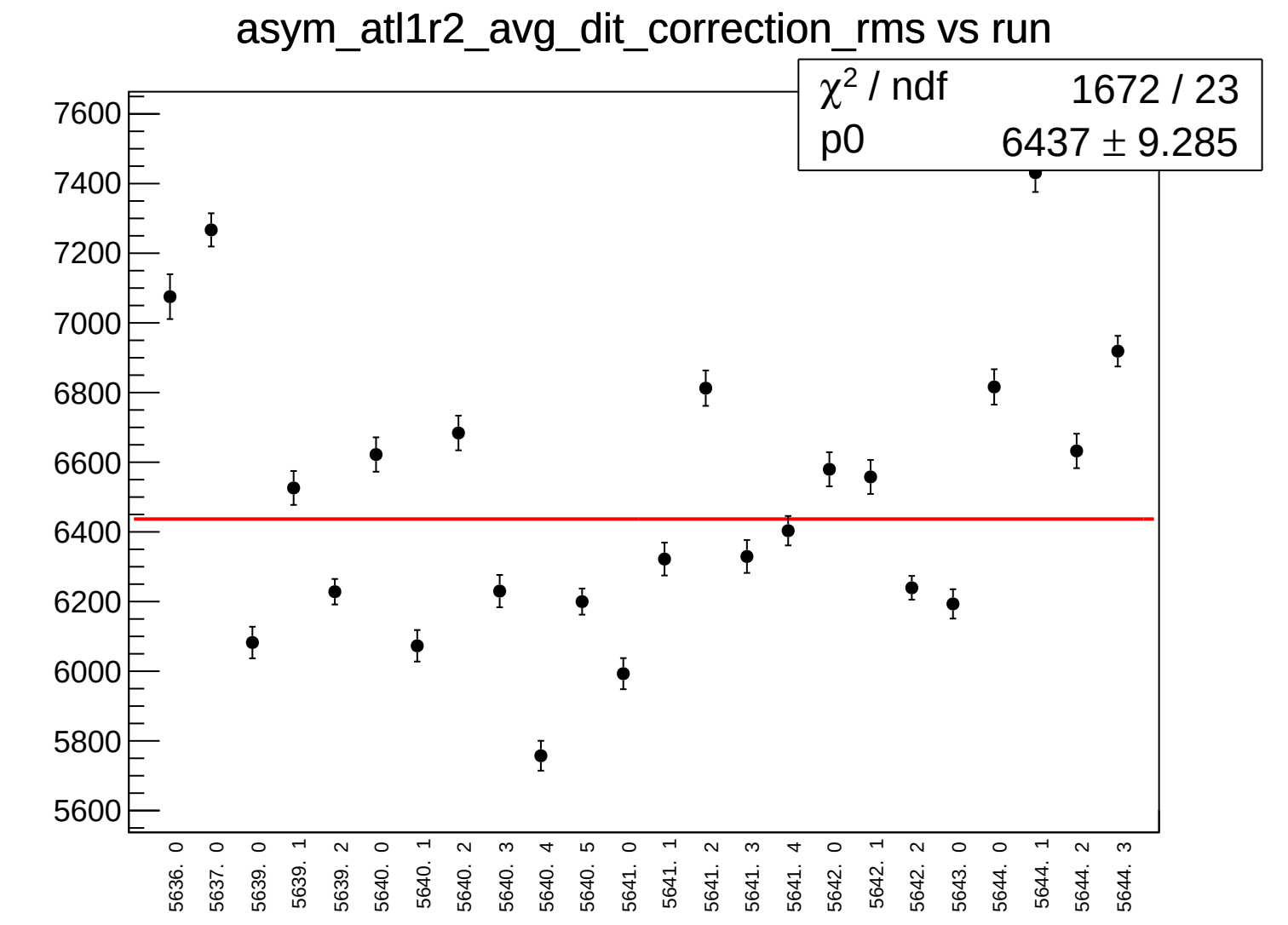

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 23.57 / 23
p0 −1963 ± 4388
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 0.5638
Std Dev 12.27
2
1.5
1
0.5
0
−0.5
−1
−1.5

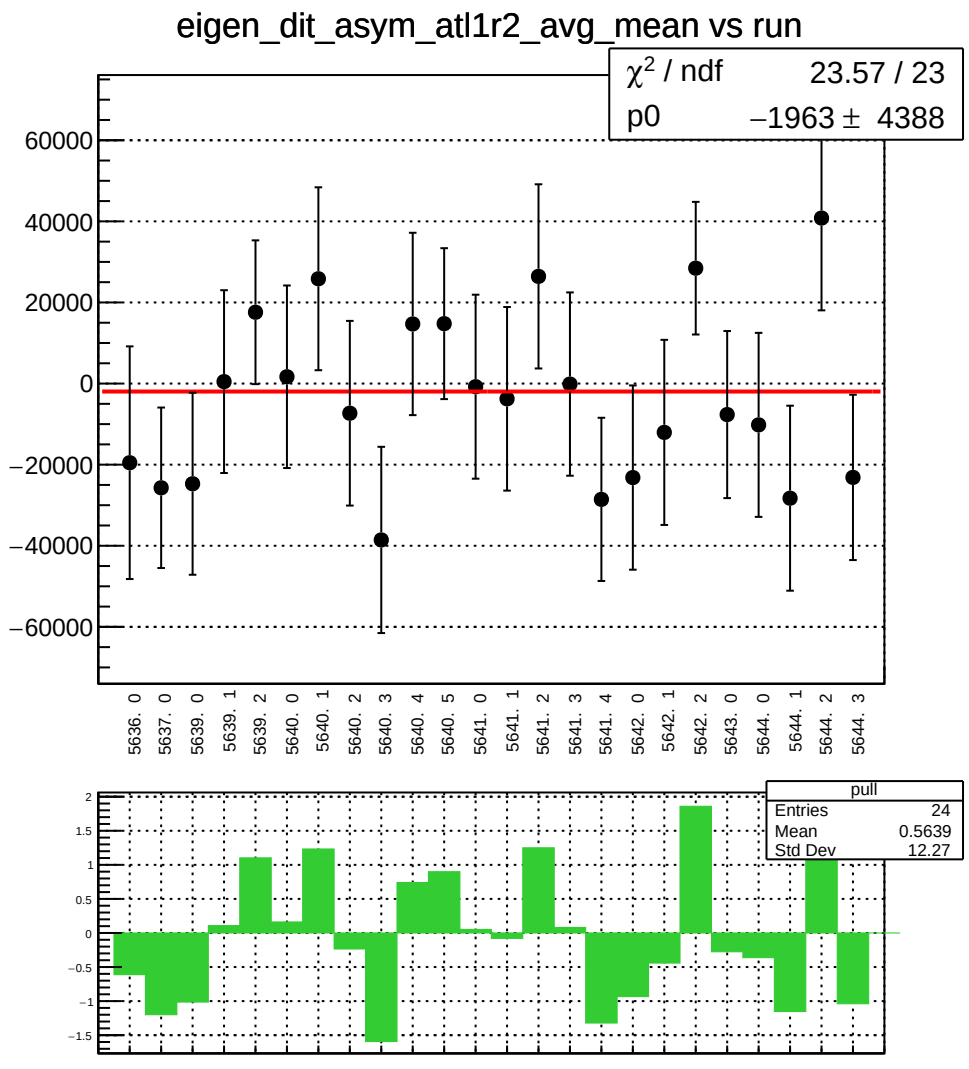

pull1D
Entries 24
Mean −0.03716
Std Dev 0.9903
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

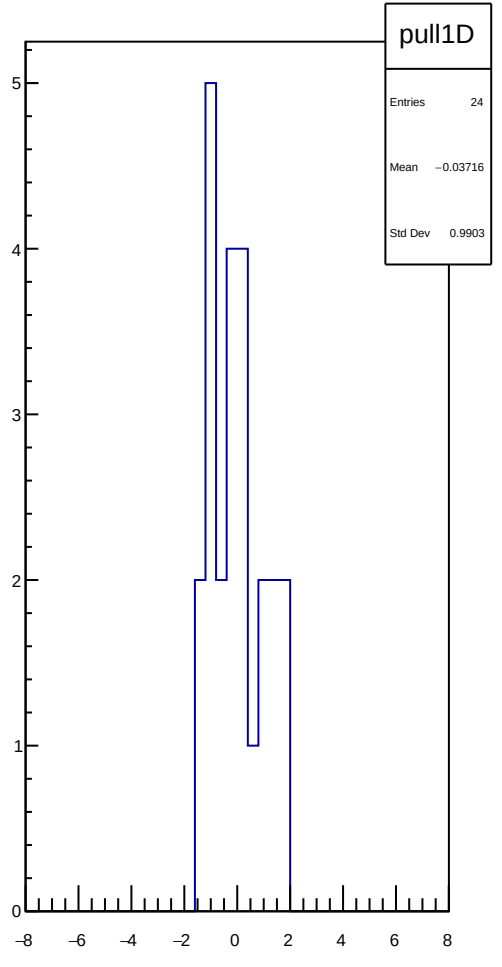

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 110.2 / 23
p0 2154 ± 3.102
2280
2260
2240
2220
2200
2180
2160
2140
2120
2100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

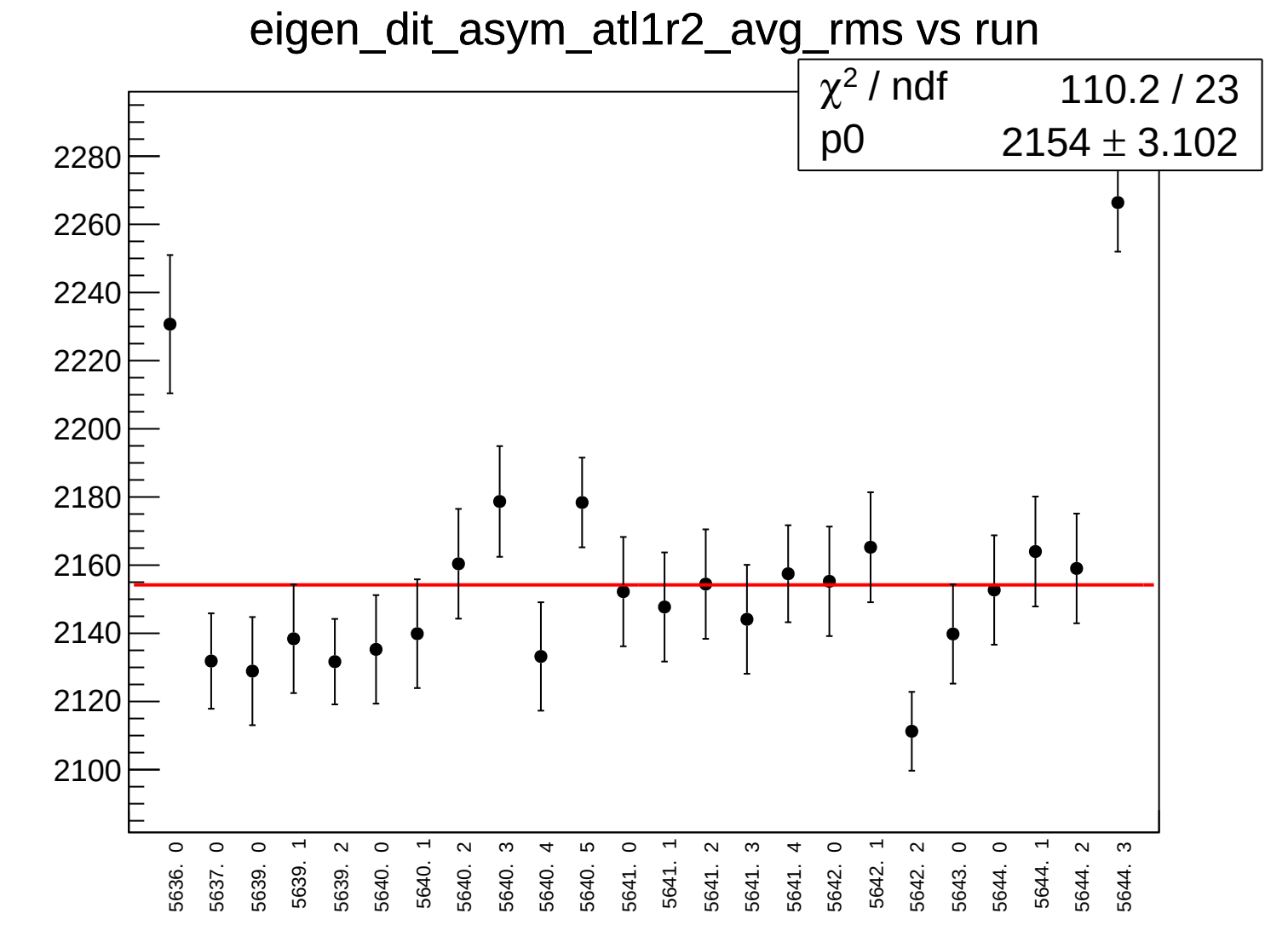

asym_atl1r2_avg_dit_correction_mean vs run
χ² / ndf 24.26 / 23
p0 −6368 ± 1.313e+04
×10³
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −50.16
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

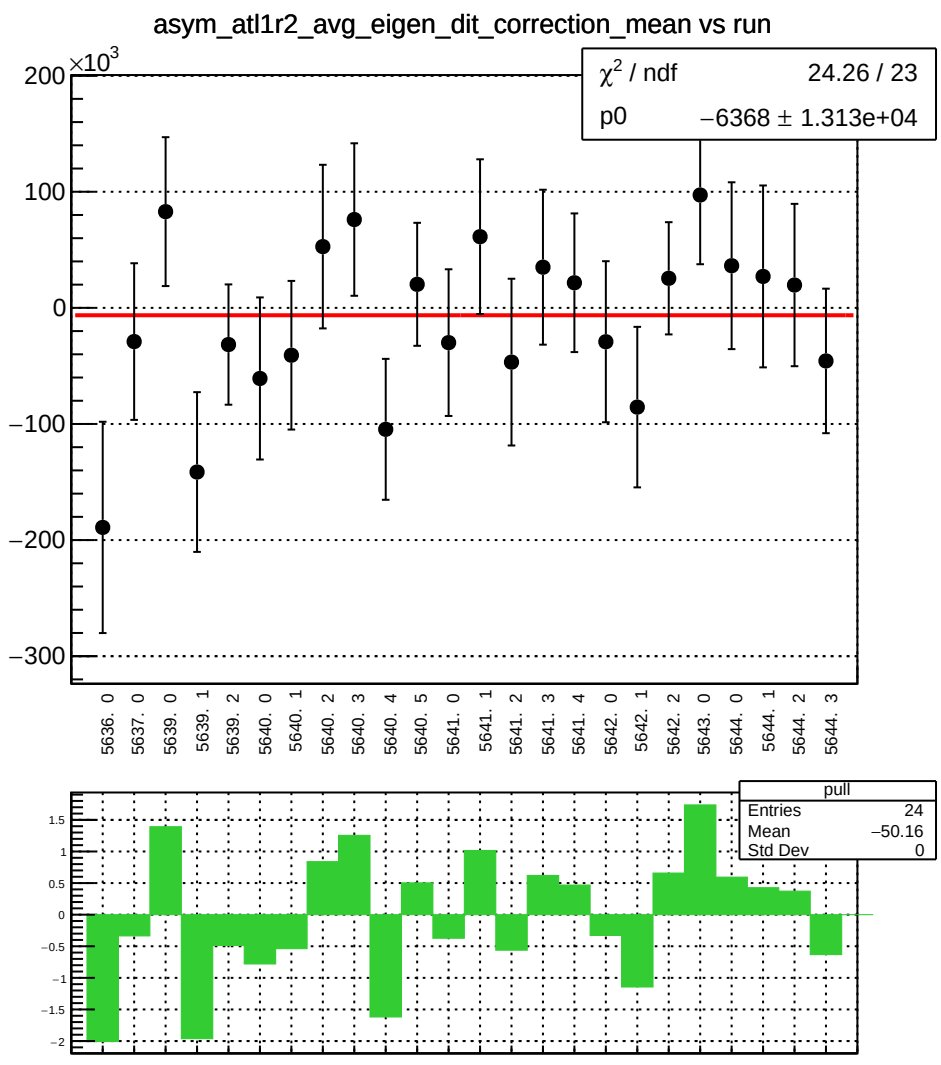

pull1D
Entries 24
Mean −0.03701
Std Dev 1.005
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

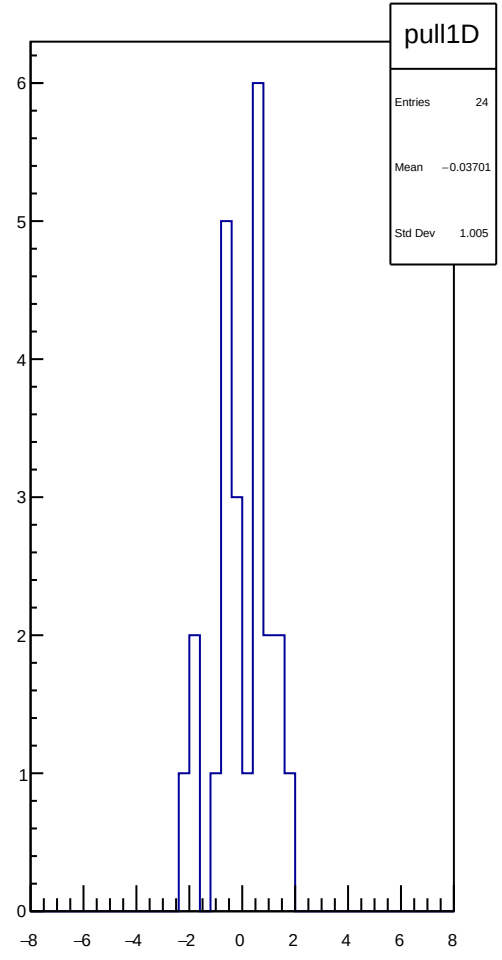

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 1672 / 23
p0 6437 ± 9.285
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

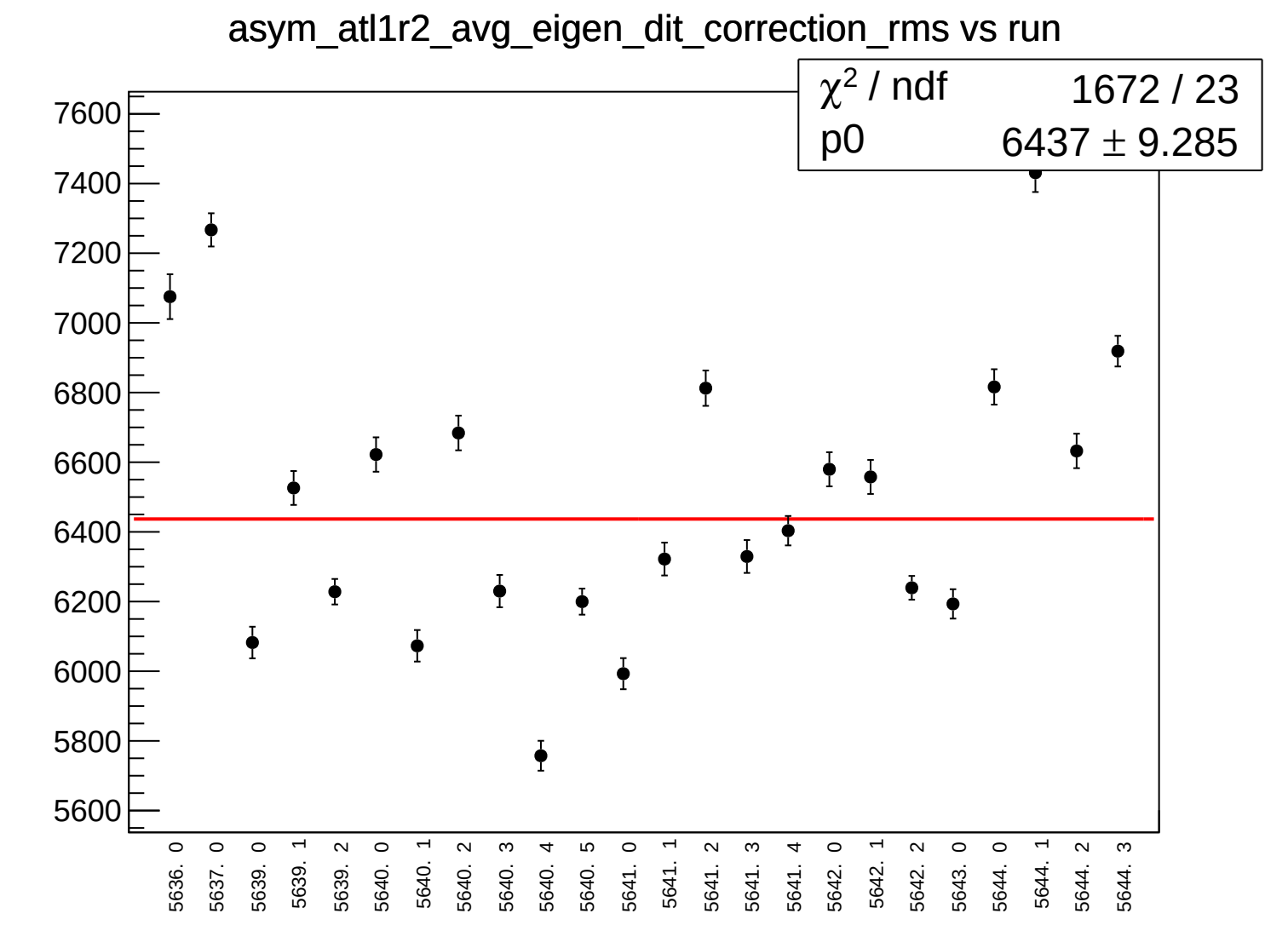

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 23.57 / 23
p0 −1963 ± 4388
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 0.5639
Std Dev 12.27
2
1.5
1
0.5
0
−0.5
−1
−1.5

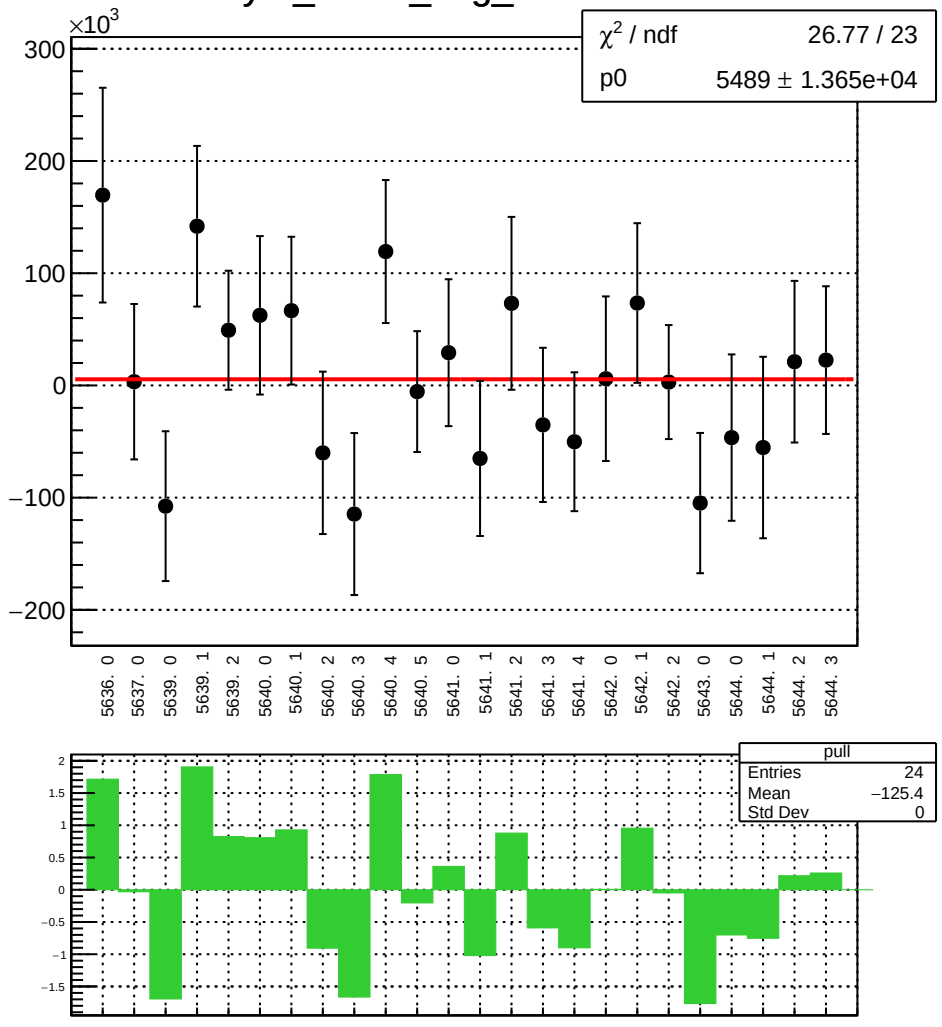

pull1D
Entries 24
Mean −0.03716
Std Dev 0.9903
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

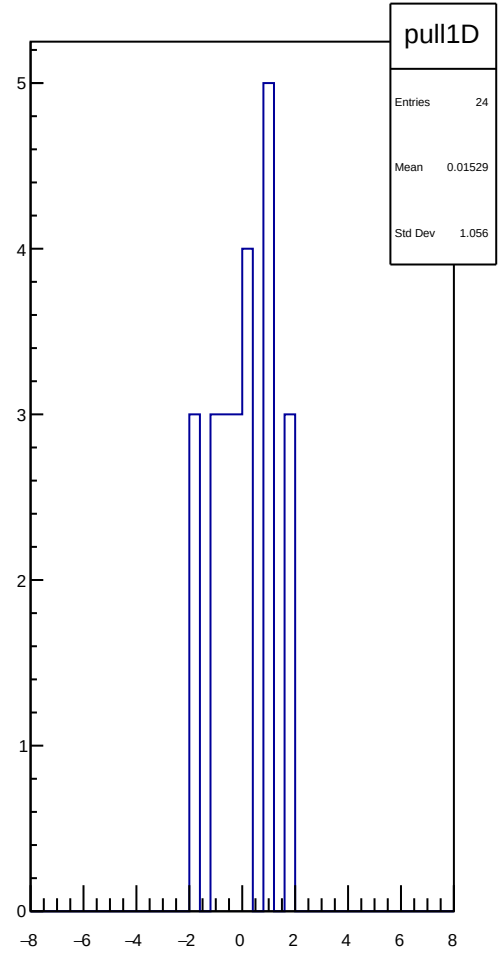

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 110.2 / 23
p0 2154 ± 3.102
2280
2260
2240
2220
2200
2180
2160
2140
2120
2100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

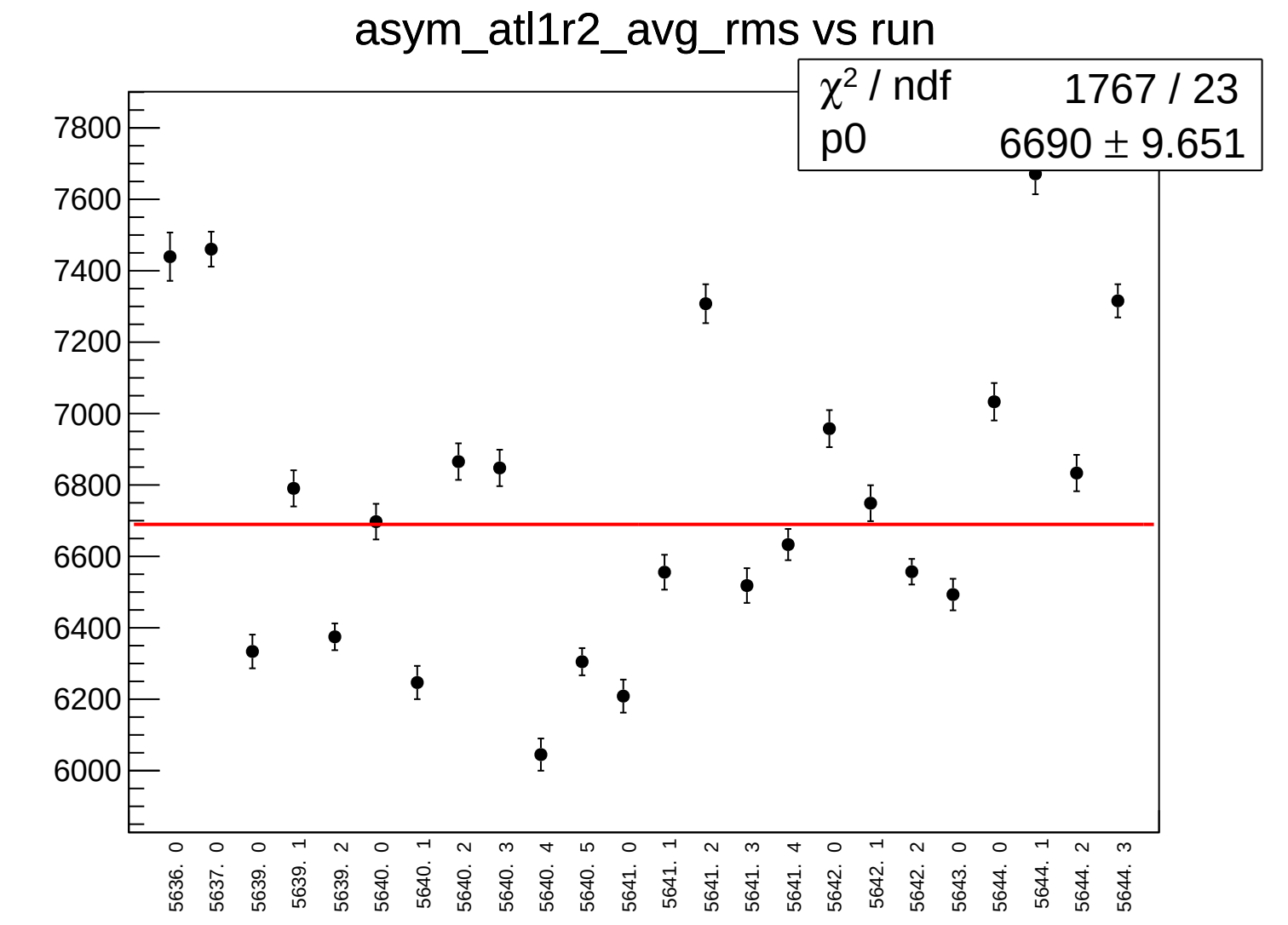

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 24.26 / 23
p0 −6368 ± 1.313e+04
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −50.16
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

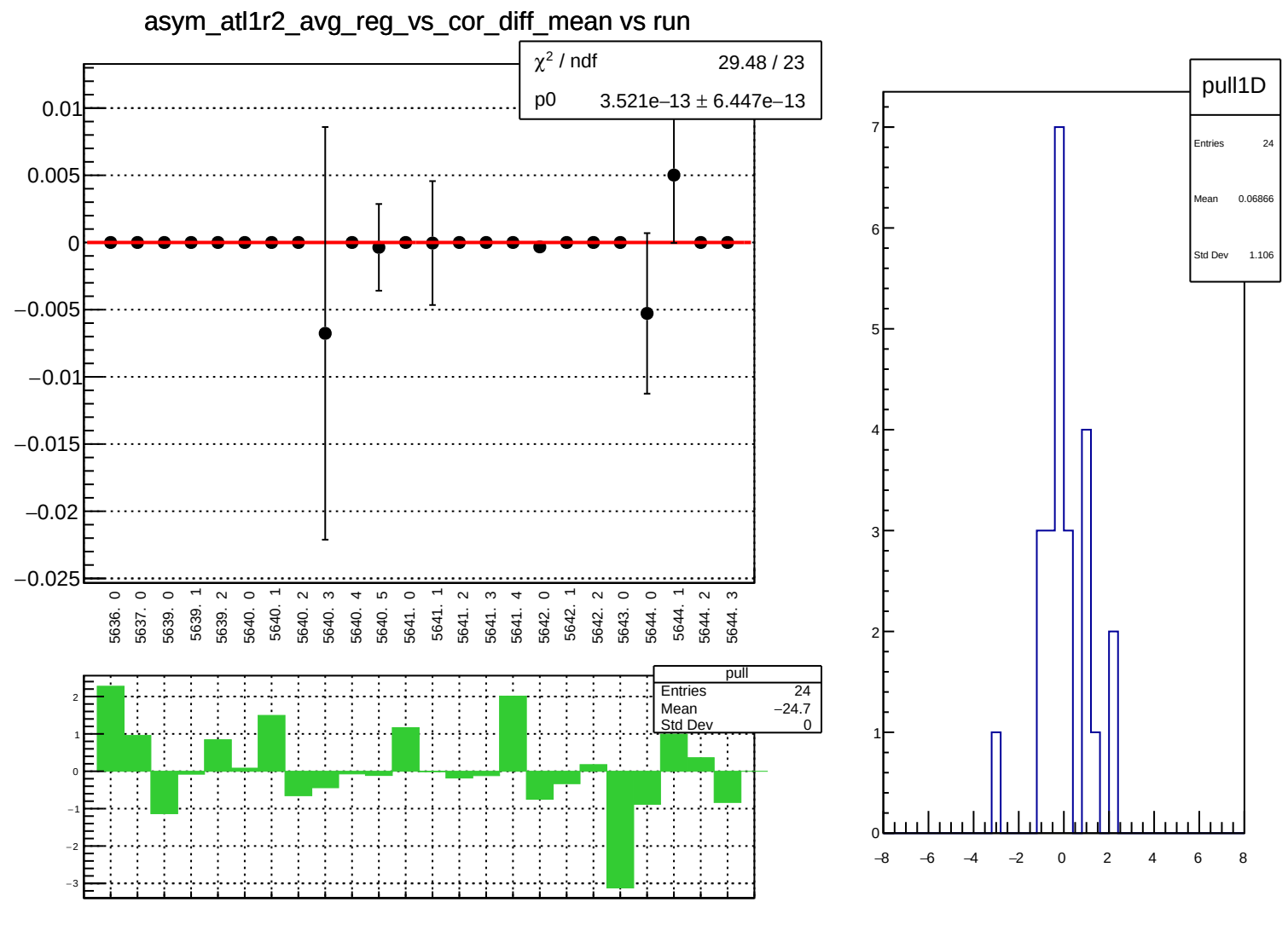

pull1D
Entries 24
Mean −0.03701
Std Dev 1.005
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

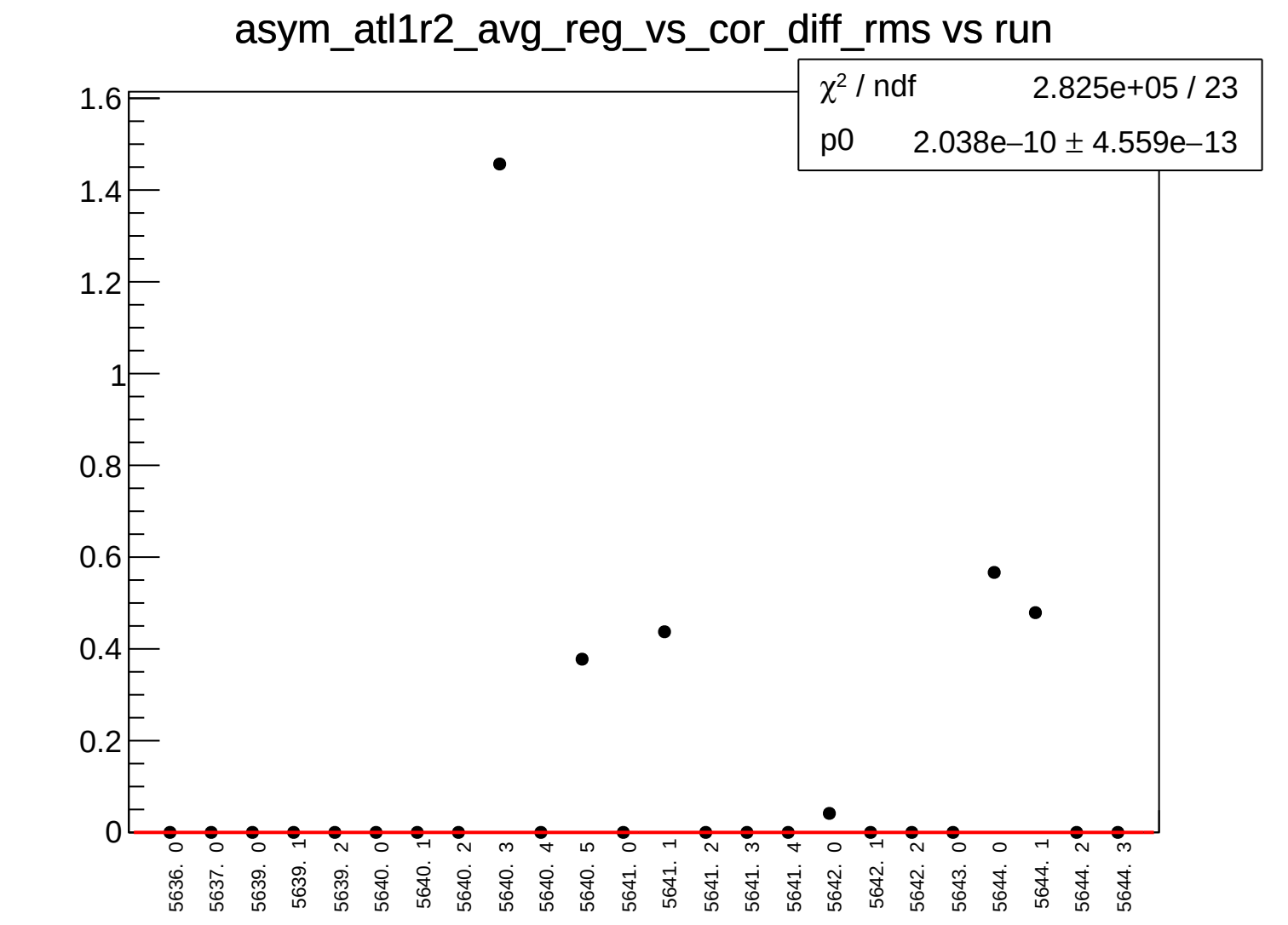

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1672 / 23
p0 6437 ± 9.285
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

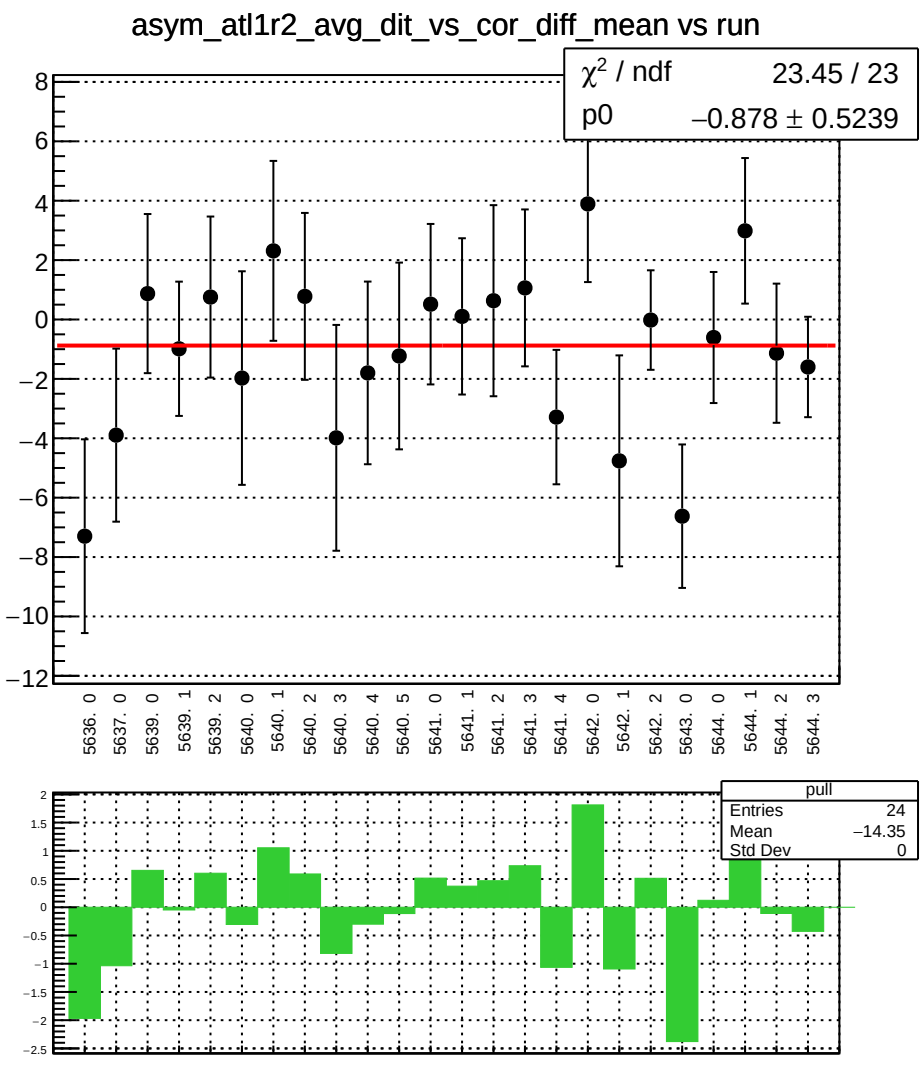

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 26.77 / 23
p0 5489 ± 1.365e+04
300
200
100
0
−100
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −125.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

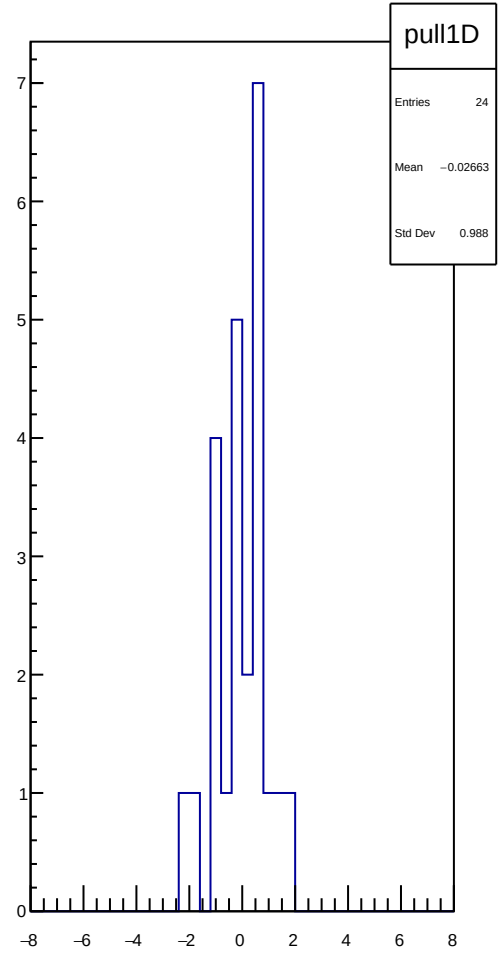

pull1D
Entries 24
Mean 0.01529
Std Dev 1.056
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

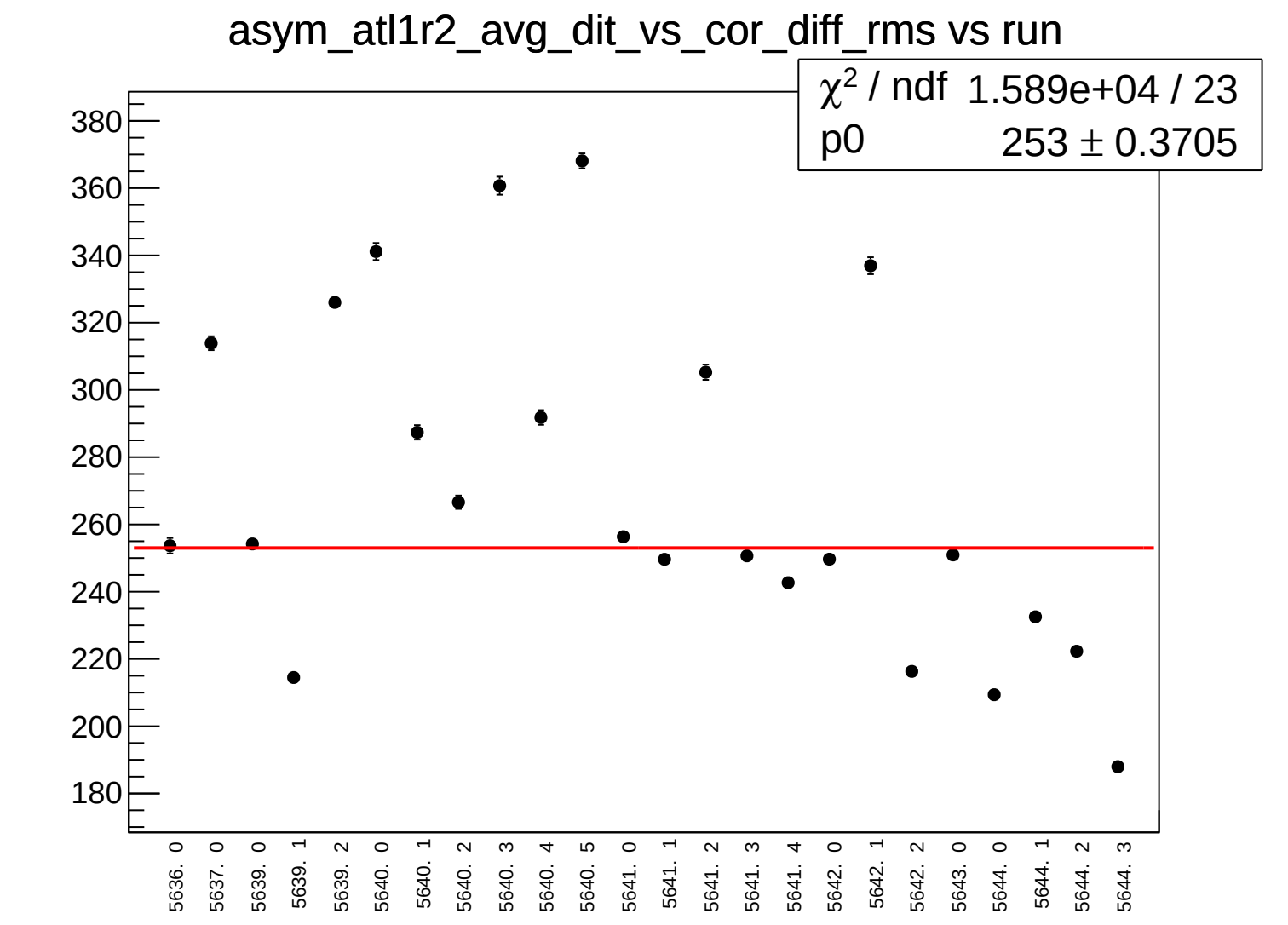

asym_atl1r2_avg_rms vs run
χ² / ndf 1767 / 23
p0 6690 ± 9.651
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

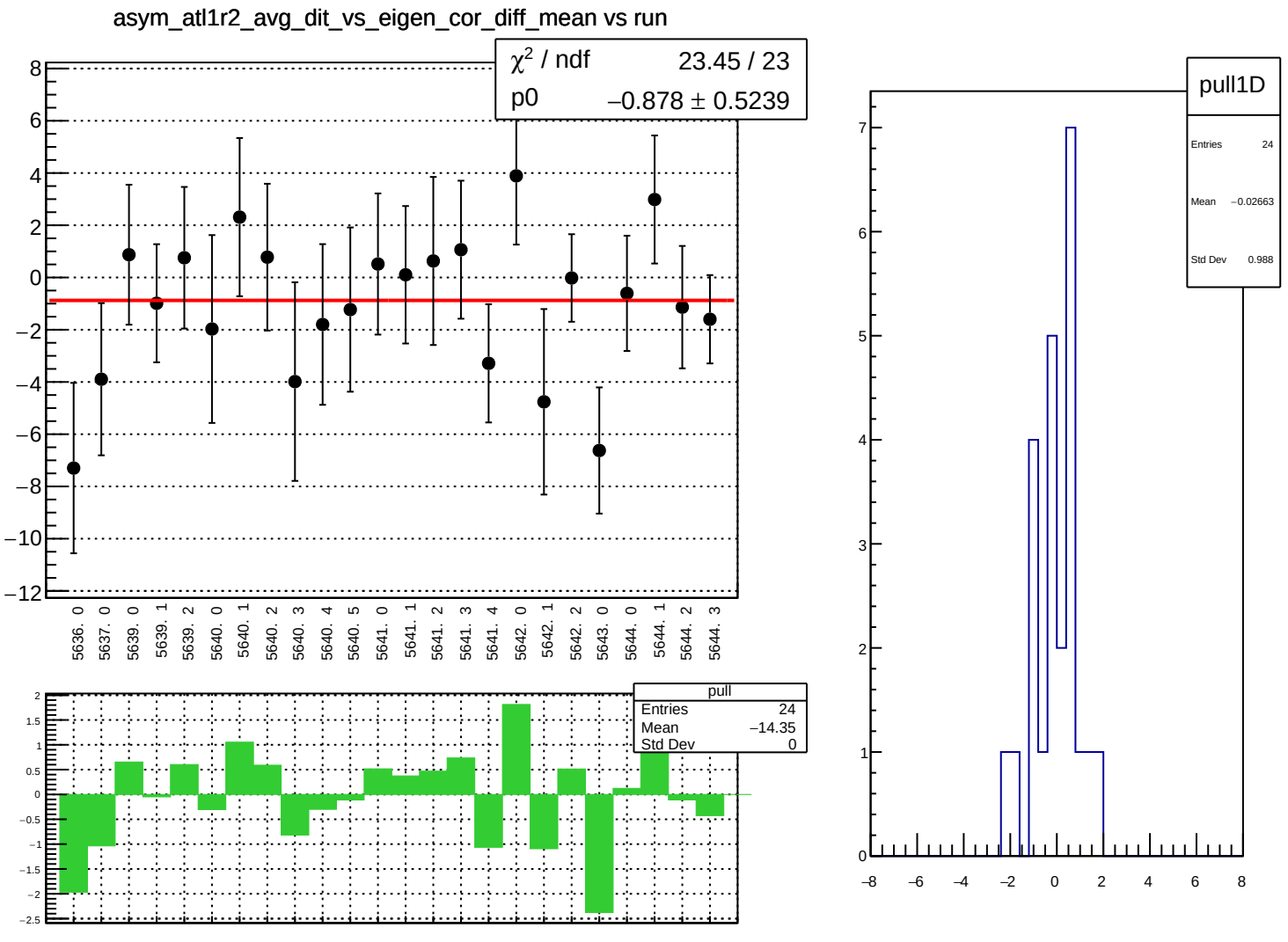

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 29.48 / 23
p0 3.521e−13 ± 6.447e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −24.7
Std Dev 0
pull1D
Entries 24
Mean 0.06866
Std Dev 1.106

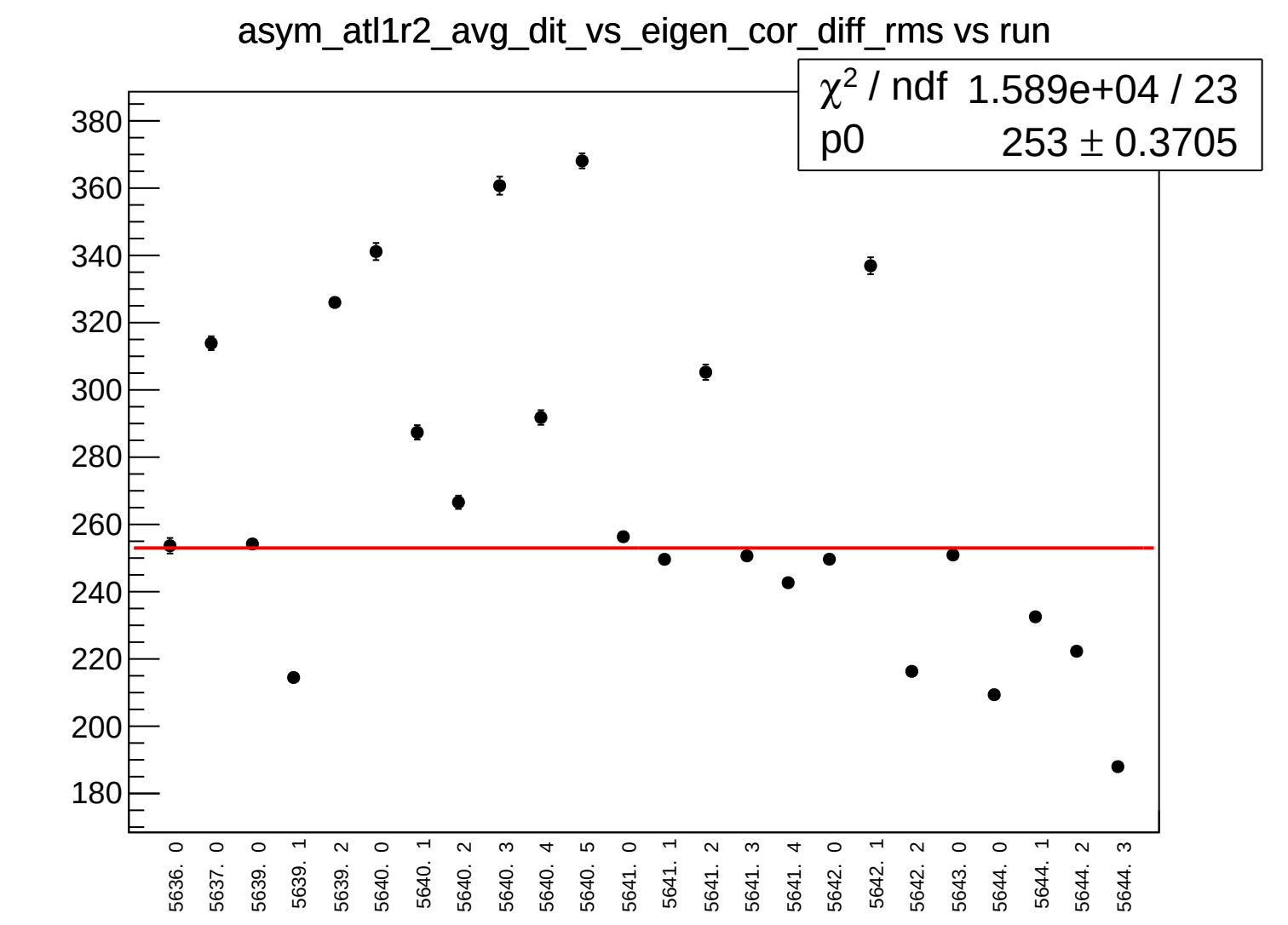

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.825e+05 / 23
p0 2.038e−10 ± 4.559e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

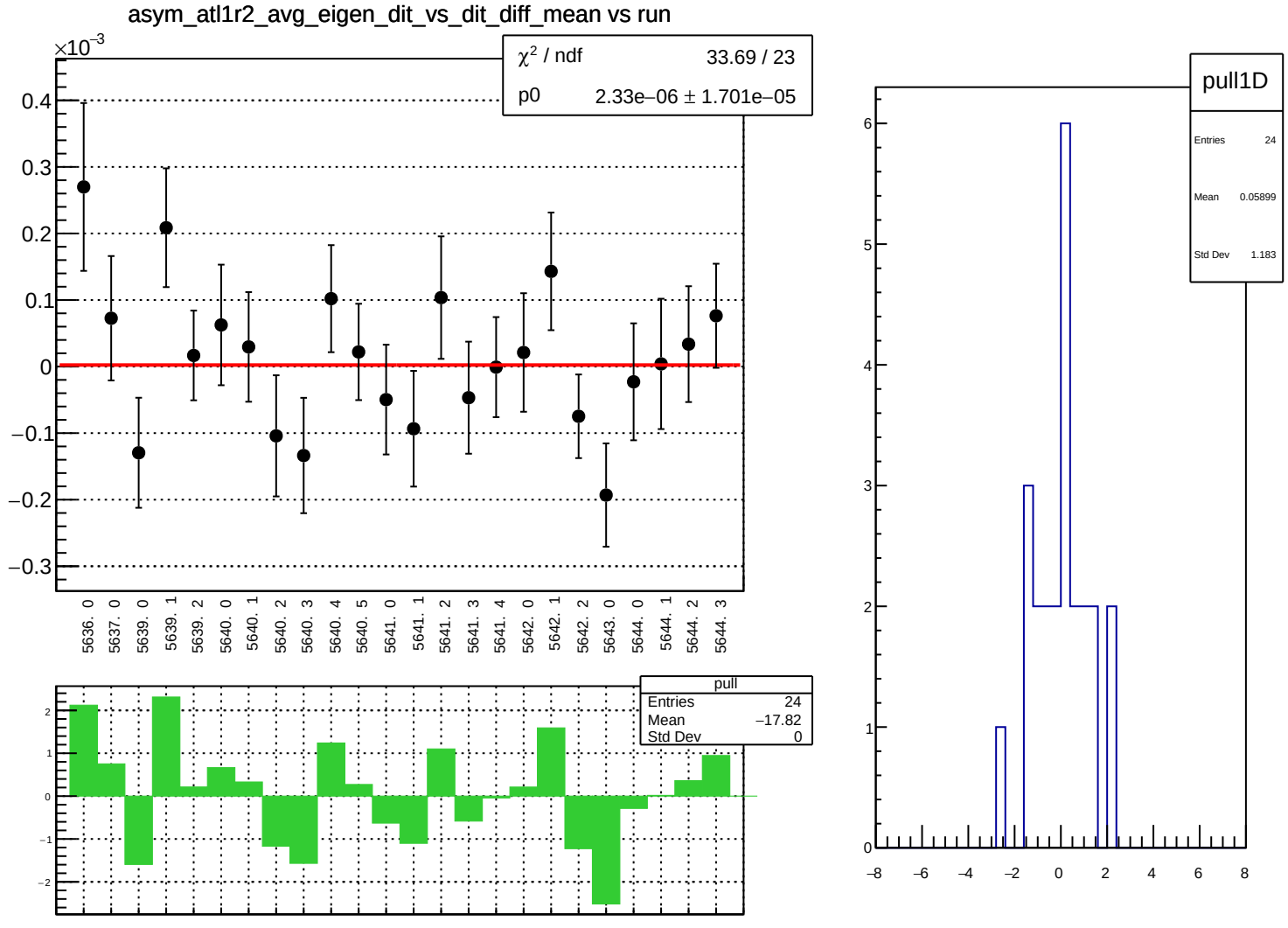

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 23.45 / 23
p0 −0.878 ± 0.5239
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −14.35
Std Dev 0

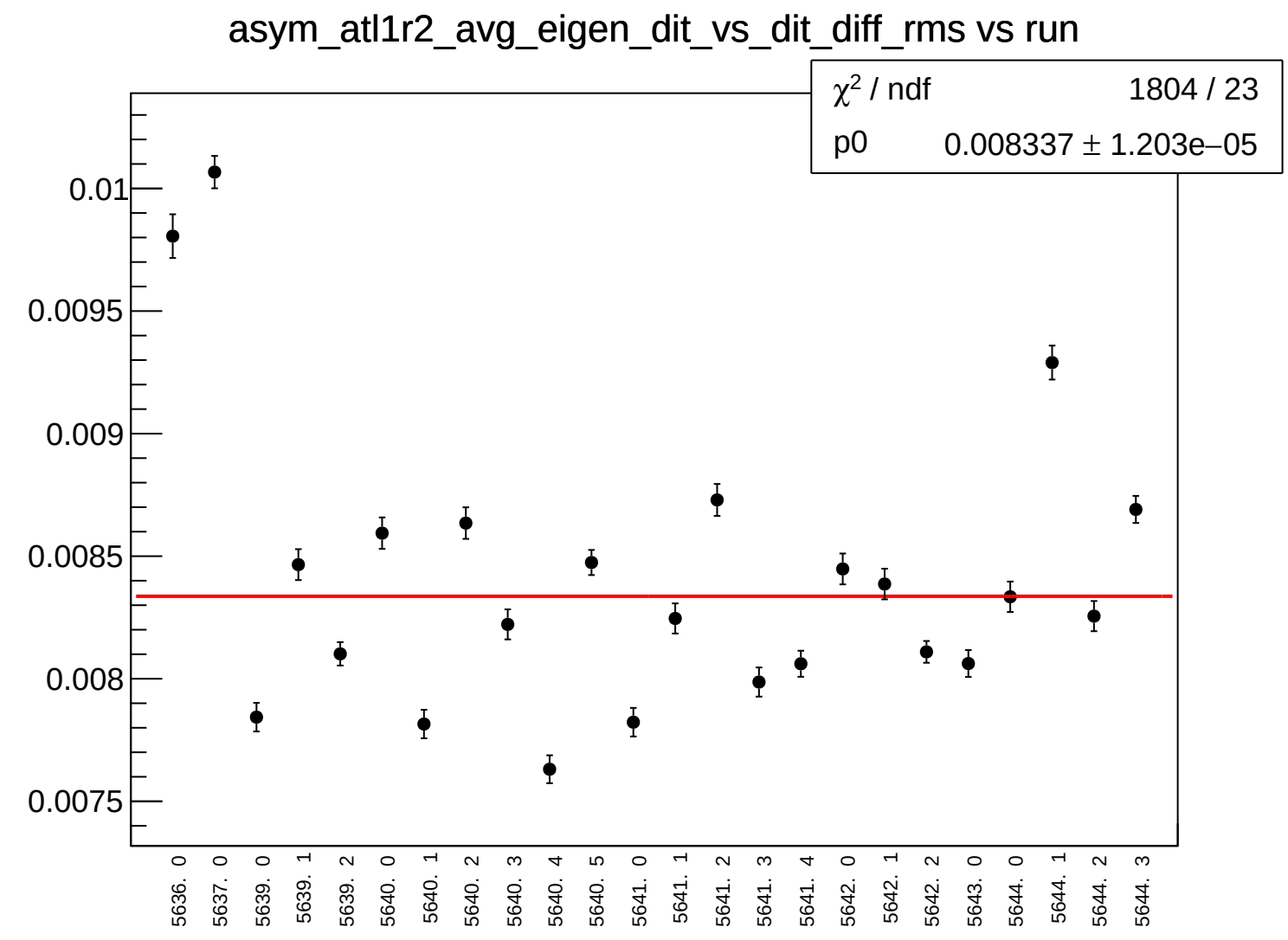

pull1D
Entries 24
Mean −0.02663
Std Dev 0.988

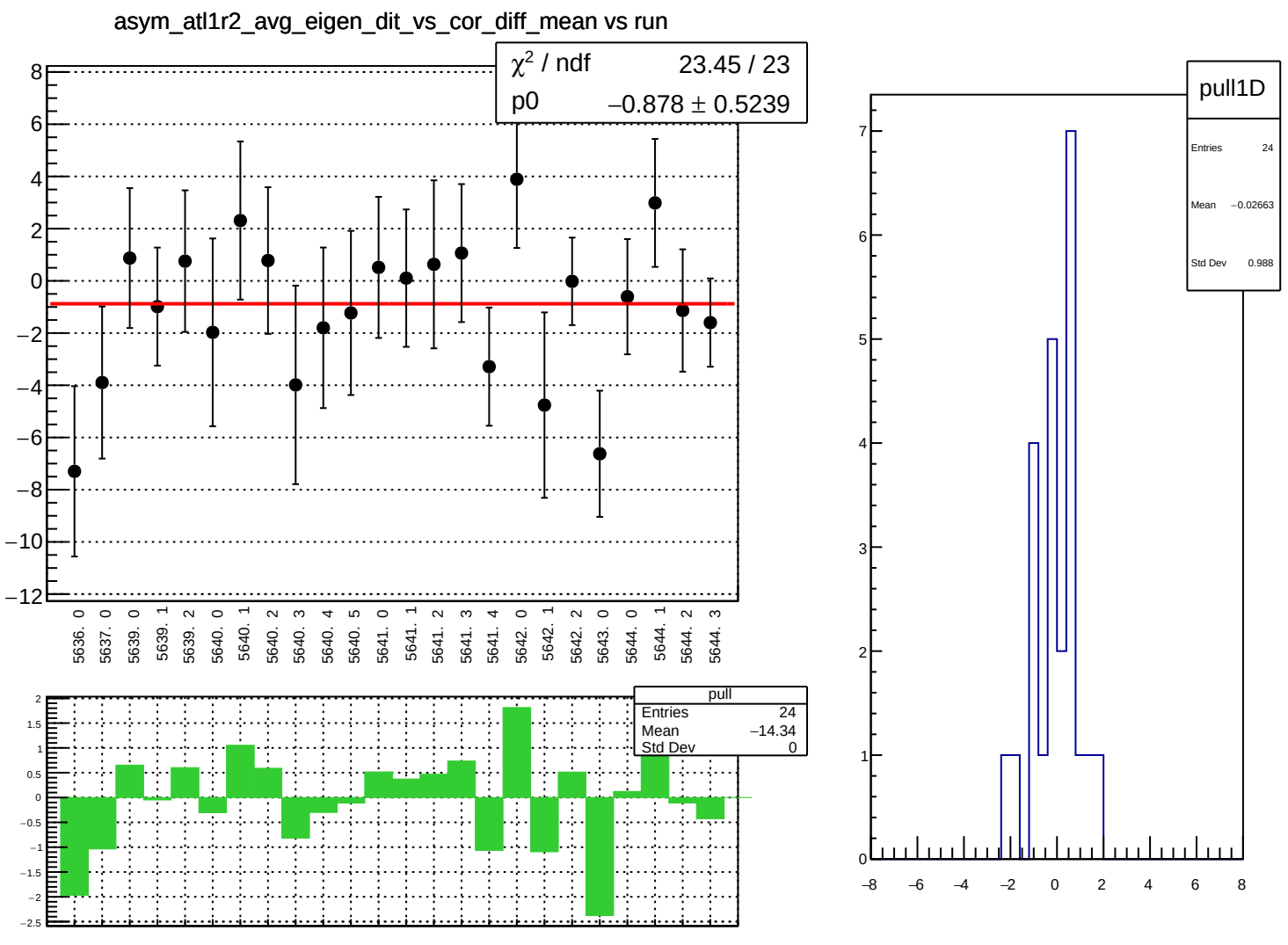

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.589e+04 / 23
p0 253 ± 0.3705
380
360
340
320
300
280
260
240
220
200
180
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

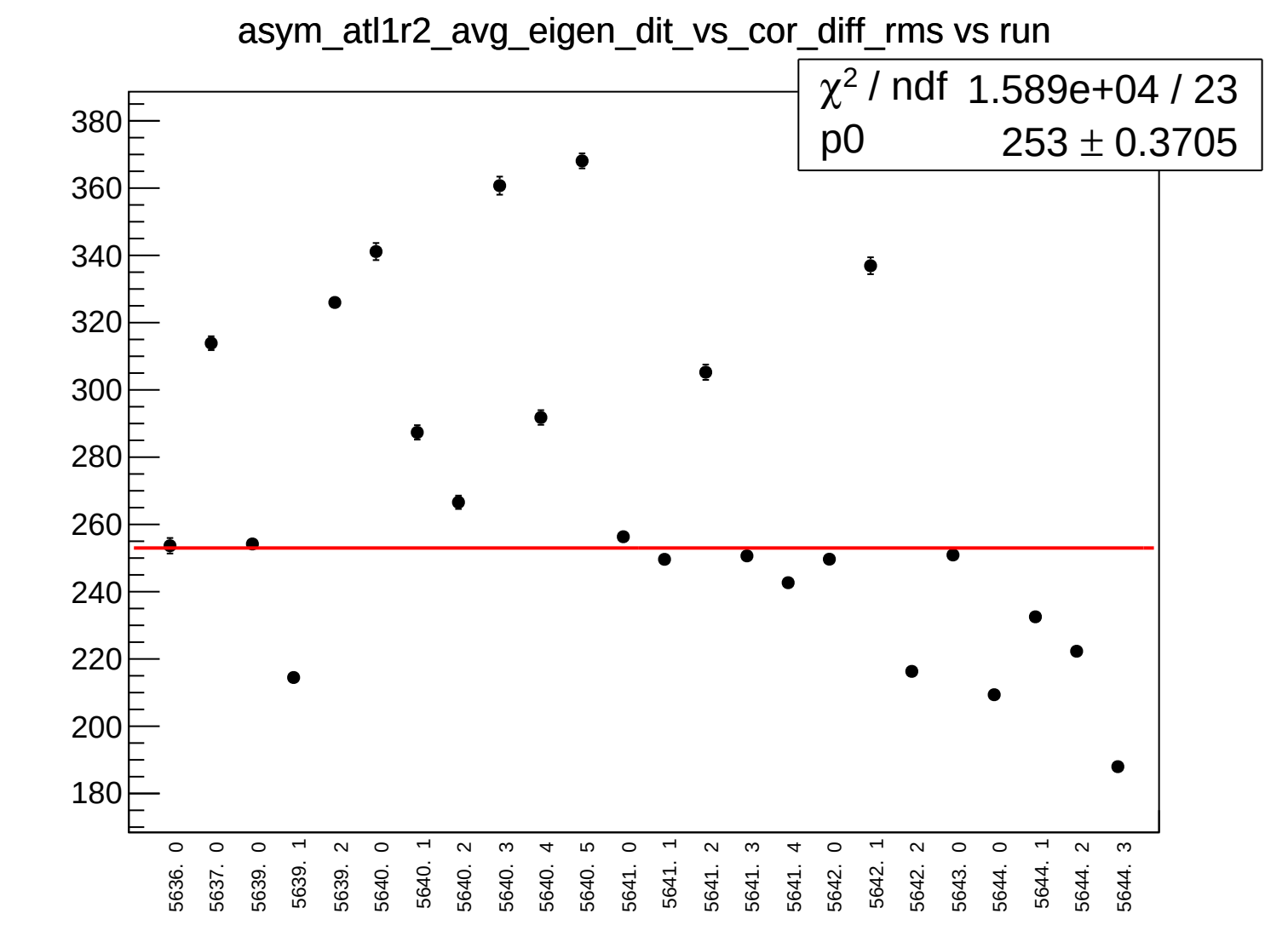

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 23.45 / 23
p0 −0.878 ± 0.5239
8
6
4
2
0
−2
−4
−6
−8
−10
−12
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −14.35
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean −0.02663
Std Dev 0.988
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

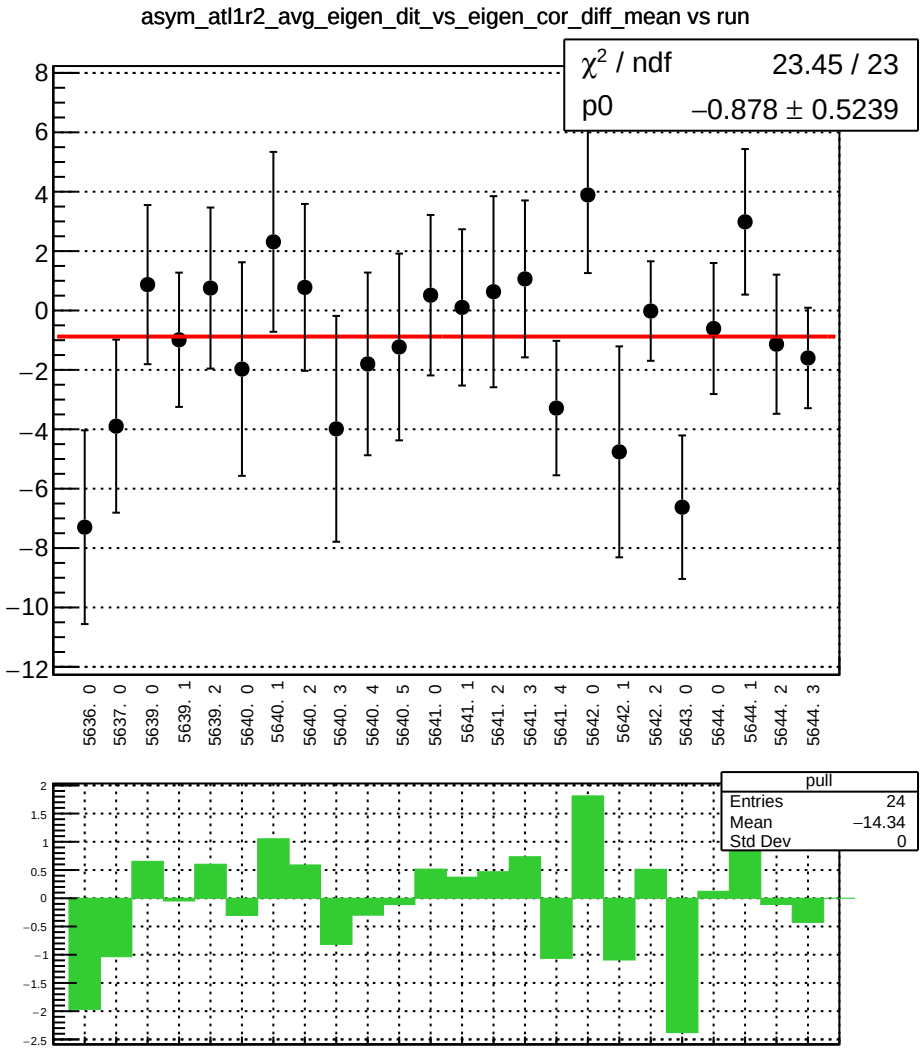

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.589e+04 / 23
p0 253 ± 0.3705
380
360
340
320
300
280
260
240
220
200
180
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

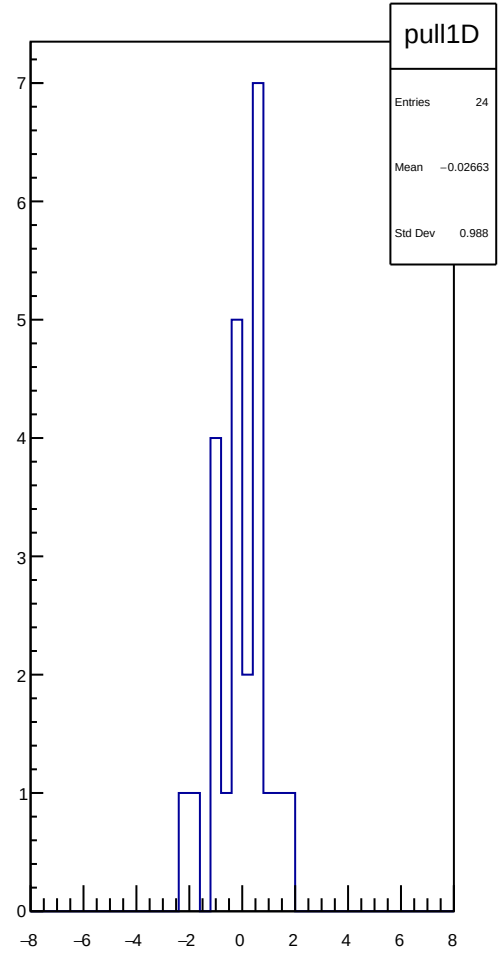

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 33.69 / 23
p0 2.33e−06 ± 1.701e−05
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −17.82
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 24
Mean 0.05899
Std Dev 1.183
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

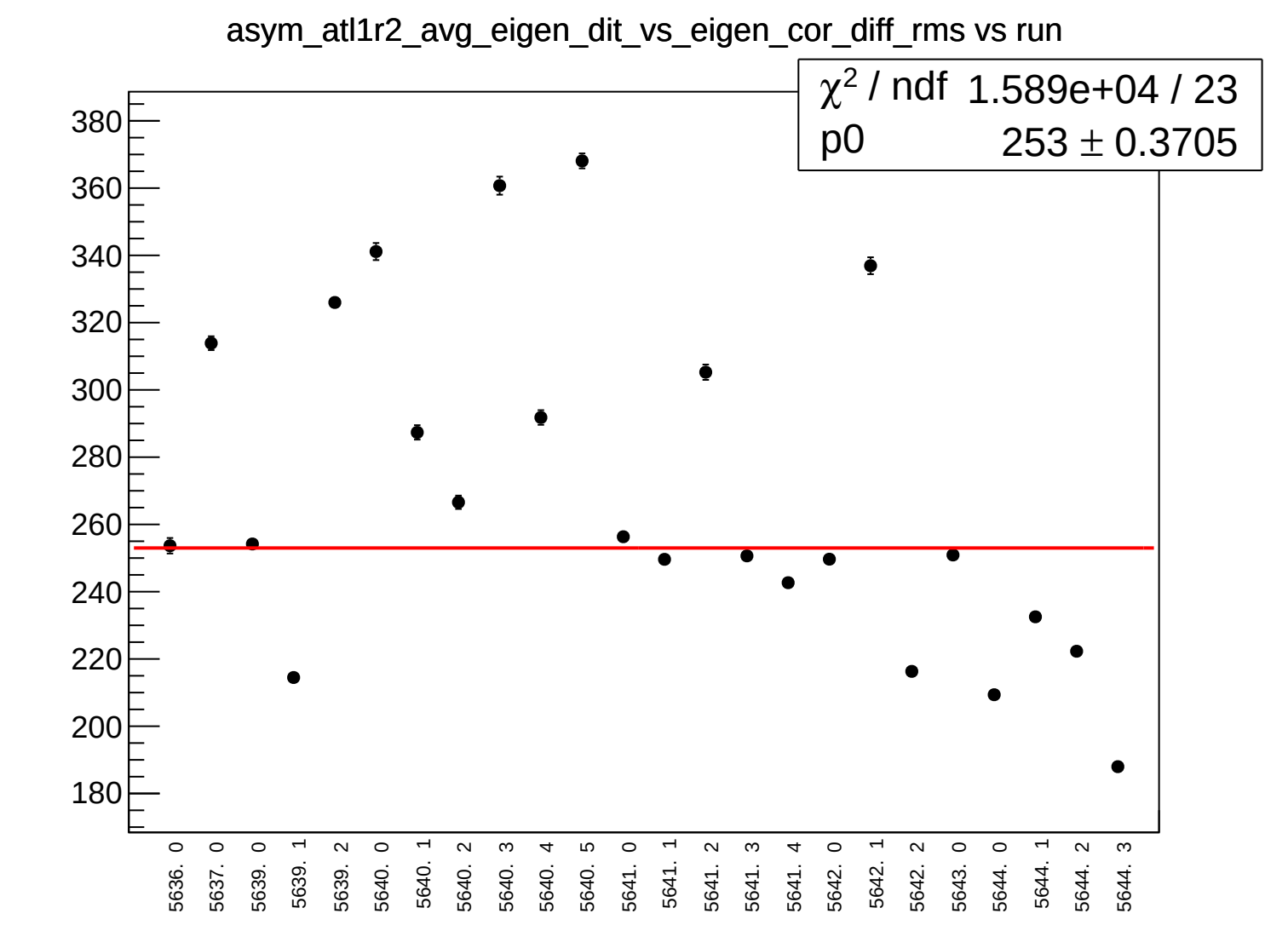

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1804 / 23
p0 0.008337 ± 1.203e−05
0.01
0.0095
0.009
0.0085
0.008
0.0075
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

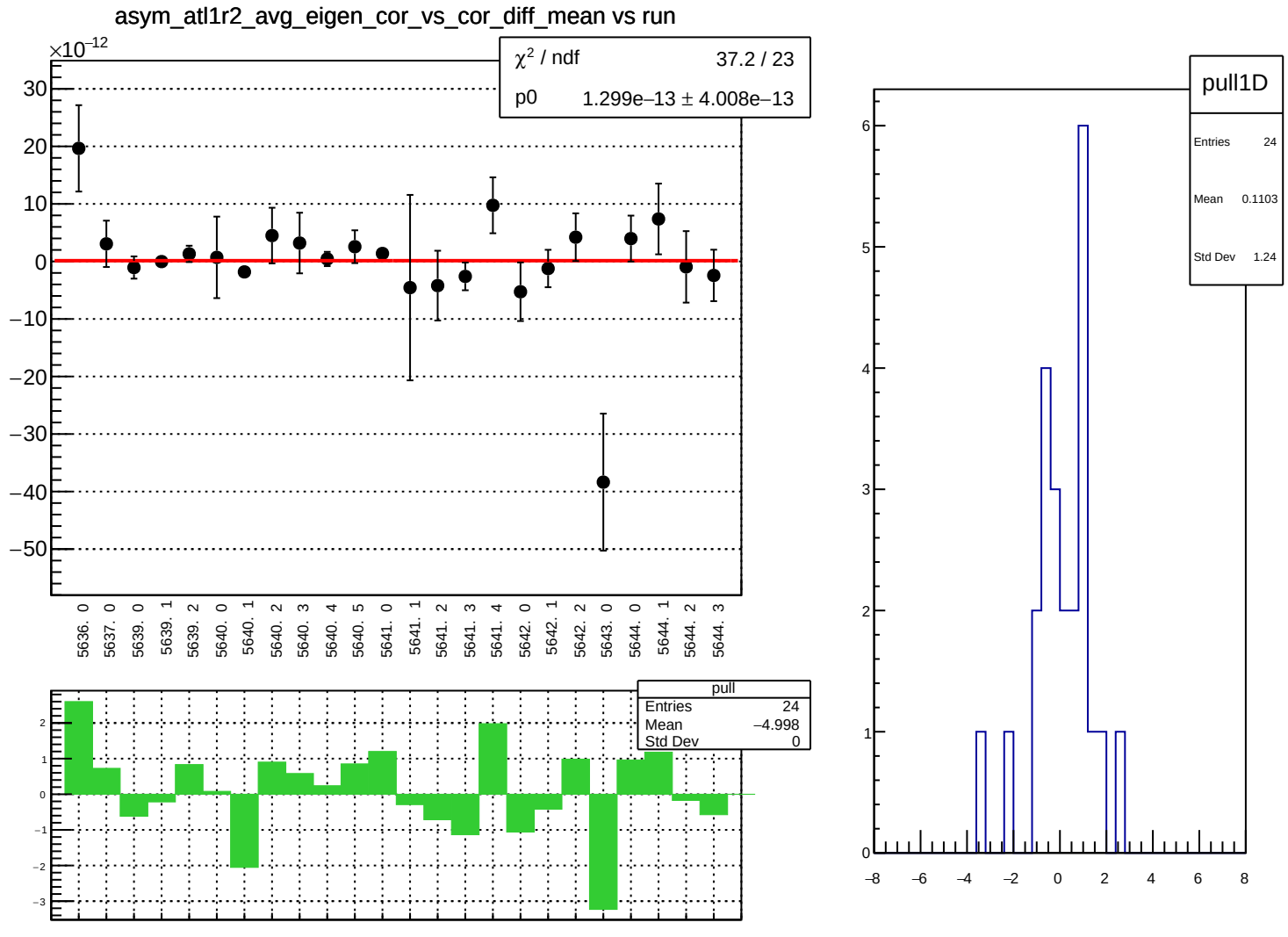

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 23.45 / 23
p0 −0.878 ± 0.5239
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −14.34
Std Dev 0
pull1D
Entries 24
Mean −0.02663
Std Dev 0.988

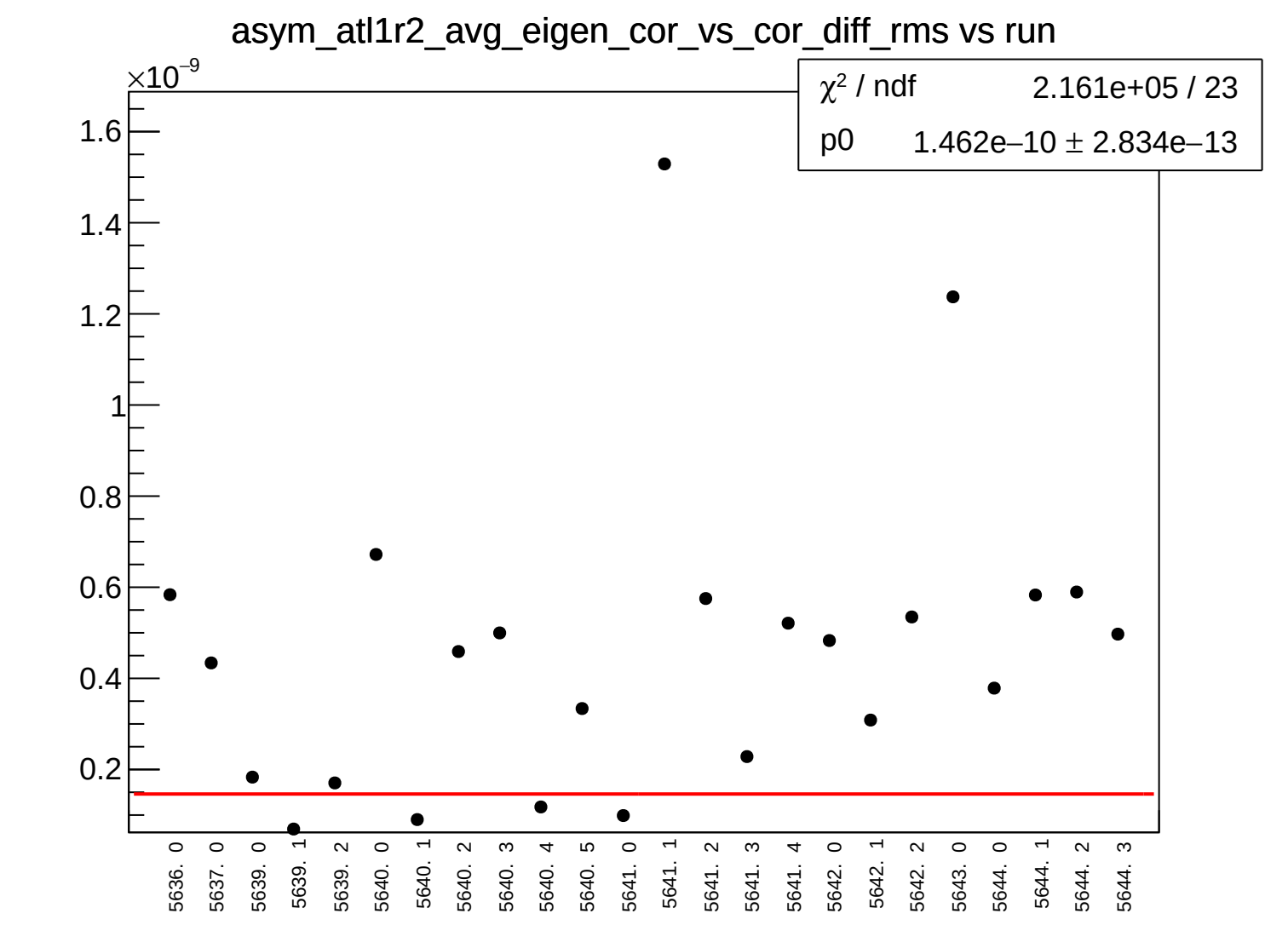

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.589e+04 / 23
p0 253 ± 0.3705
380
360
340
320
300
280
260
240
220
200
180
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

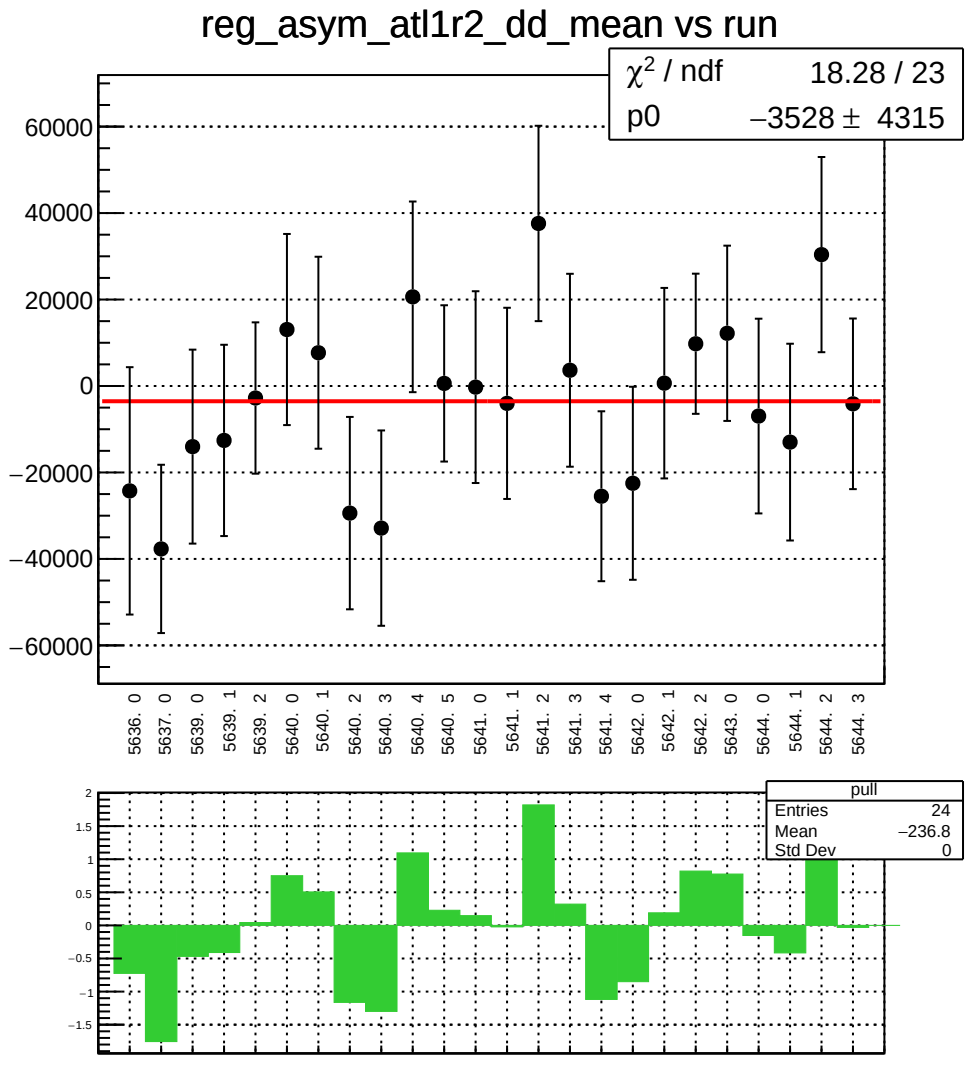

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 23.45 / 23
p0 −0.878 ± 0.5239
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −14.34
Std Dev 0

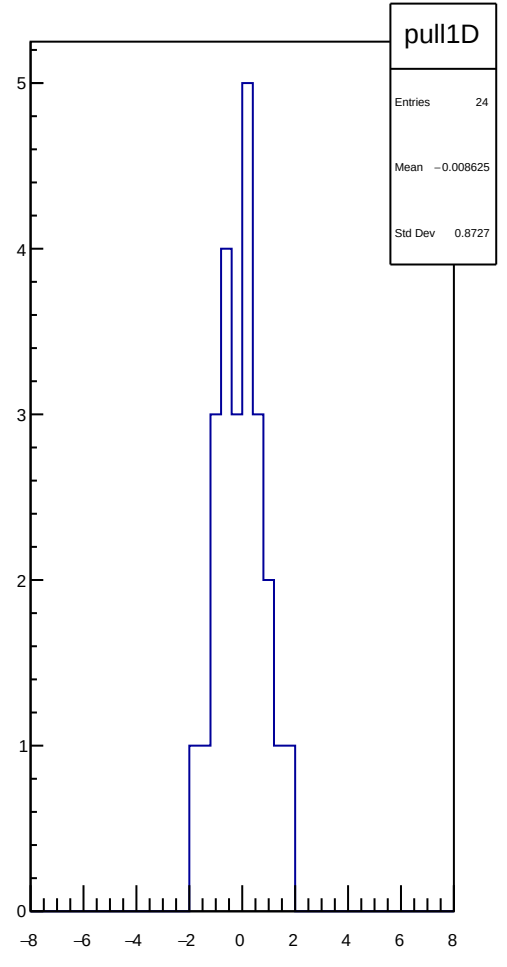

pull1D
Entries 24
Mean −0.02663
Std Dev 0.988

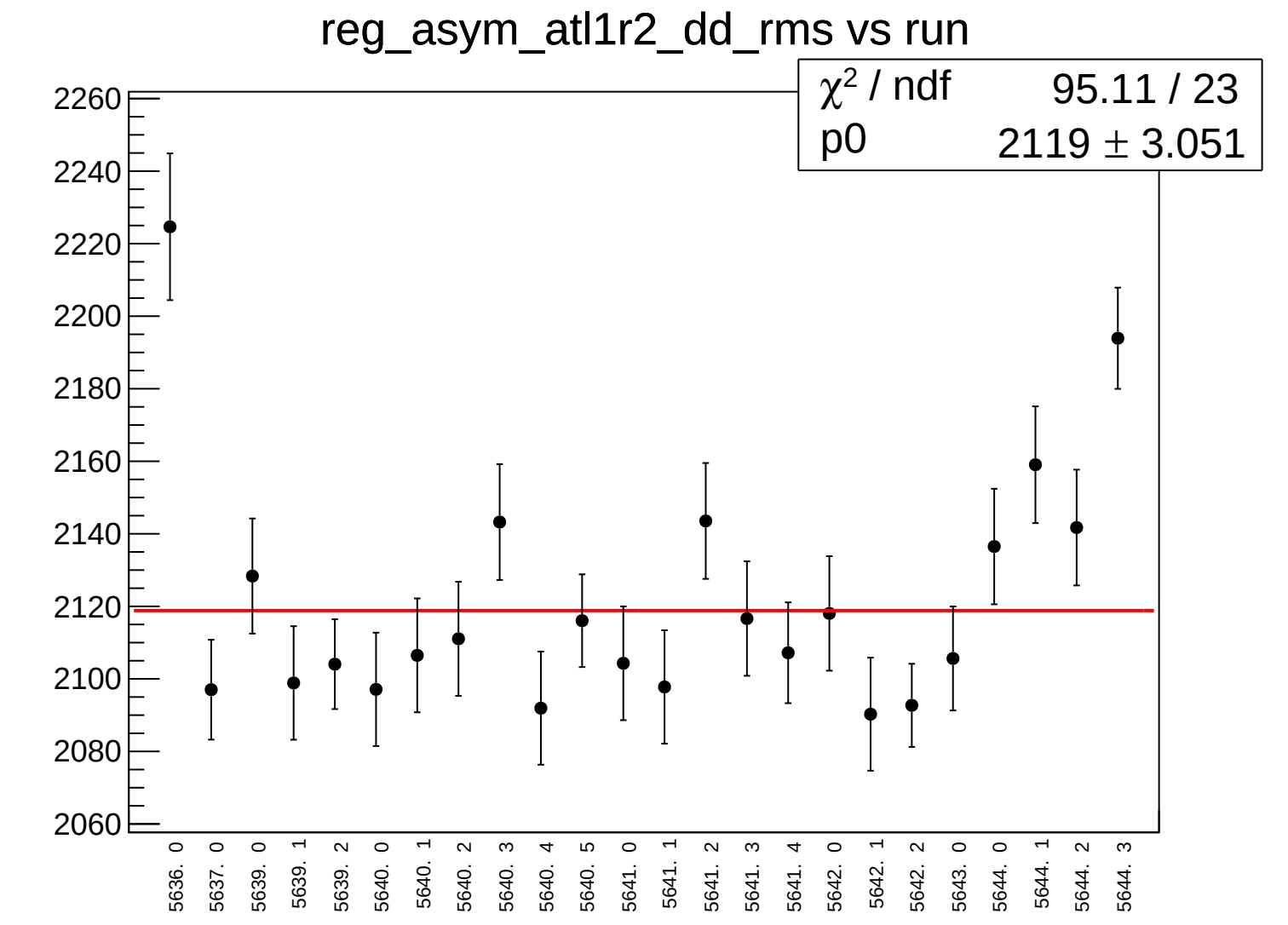

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.589e+04 / 23
p0 253 ± 0.3705
380
360
340
320
300
280
260
240
220
200
180
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

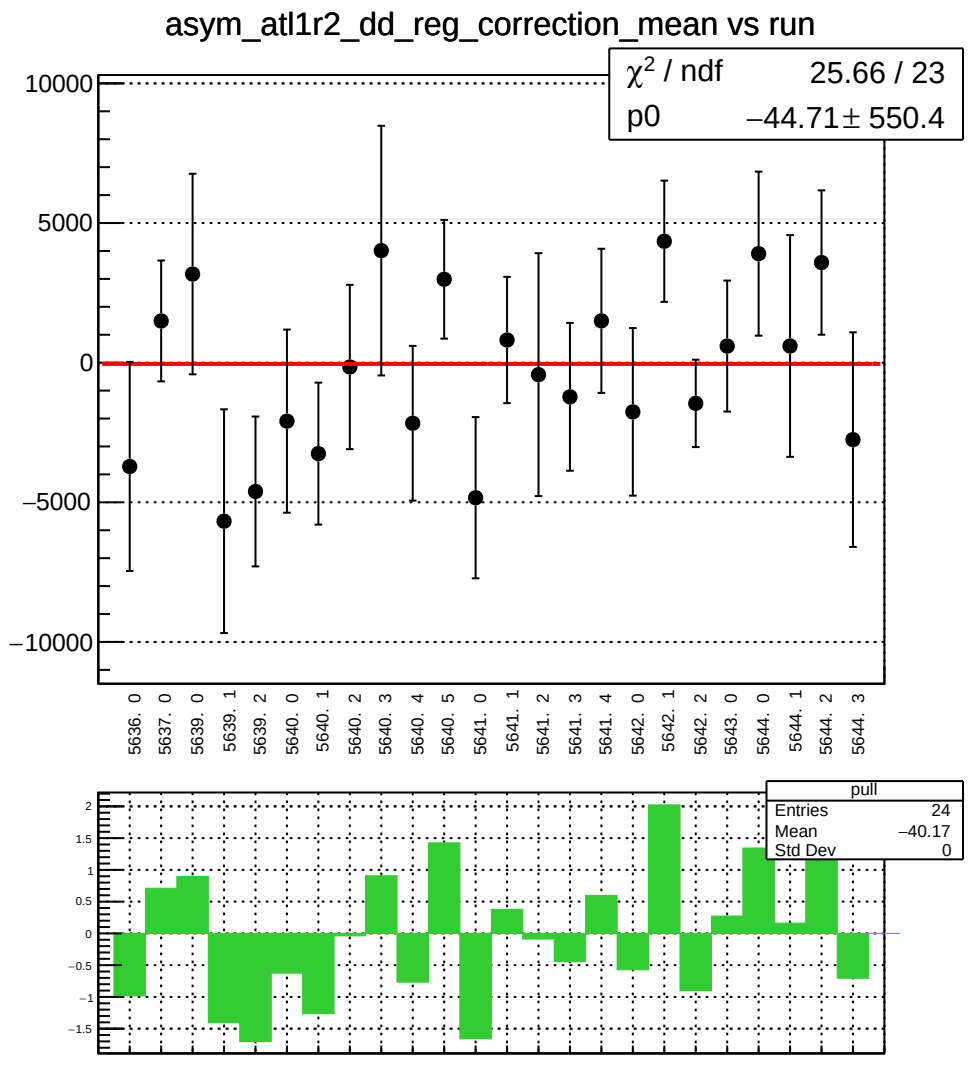

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 37.2 / 23
p0 1.299e−13 ± 4.008e−13
30
20
10
0
−10
−20
−30
−40
−50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −4.998
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean 0.1103
Std Dev 1.24
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

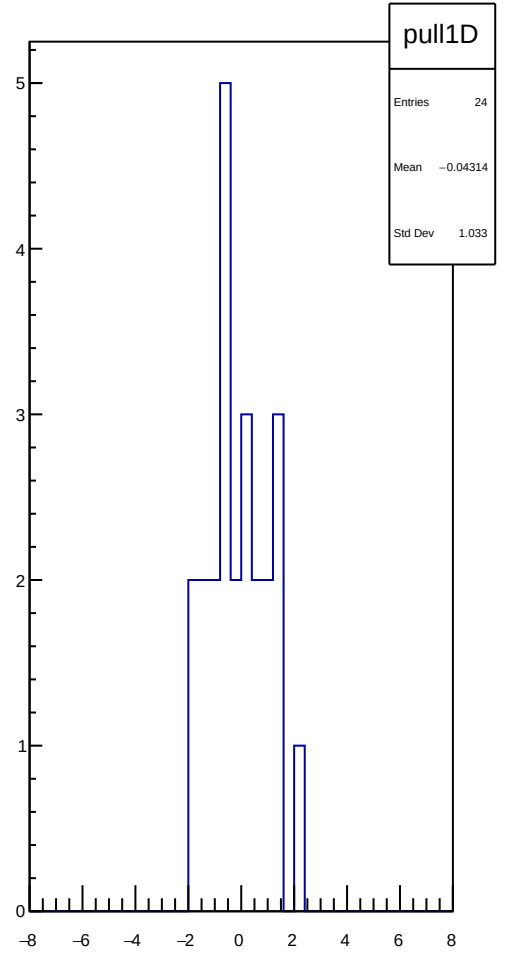

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.161e+05 / 23
p0 1.462e−10 ± 2.834e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

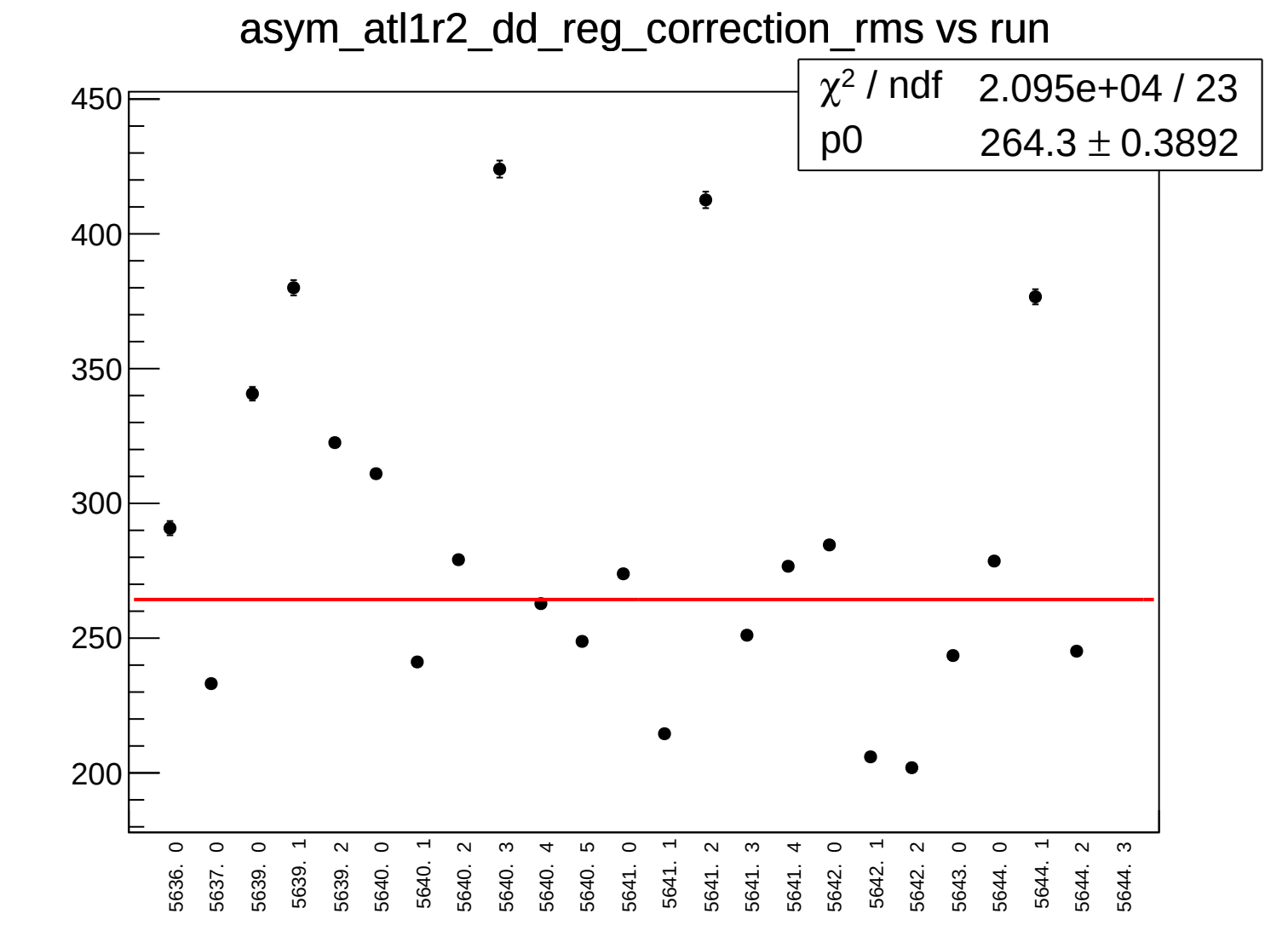

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 18.28 / 23
p0 −3528 ± 4315
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −236.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

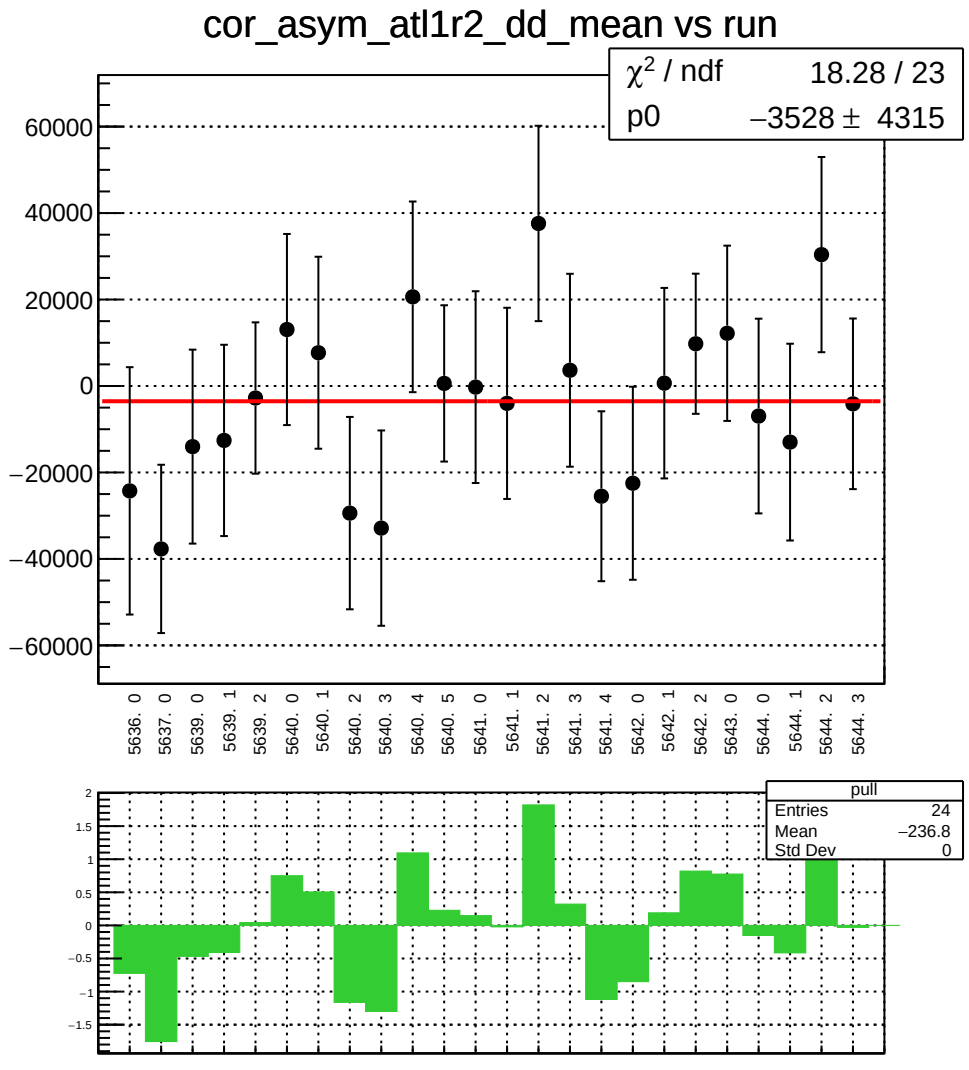

pull1D
Entries 24
Mean −0.008625
Std Dev 0.8727
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

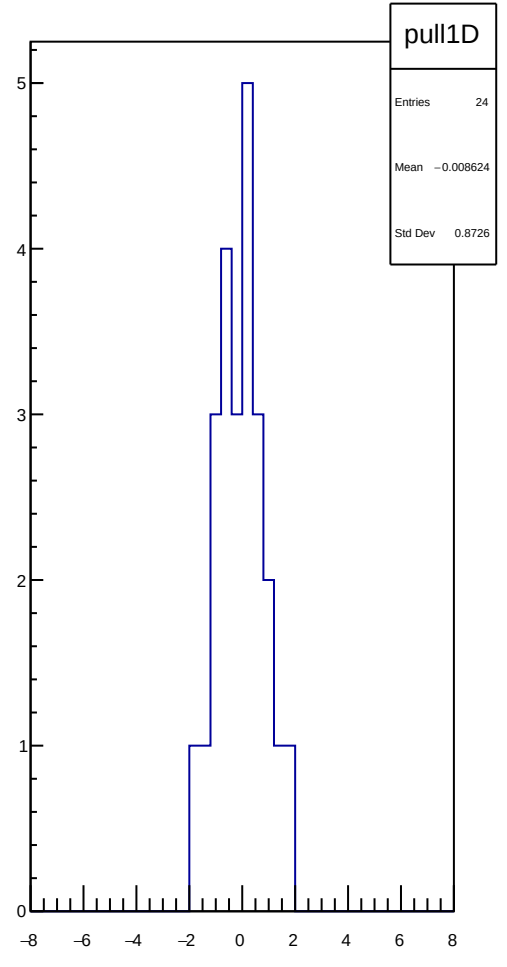

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 95.11 / 23
p0 2119 ± 3.051
2260
2240
2220
2200
2180
2160
2140
2120
2100
2080
2060
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

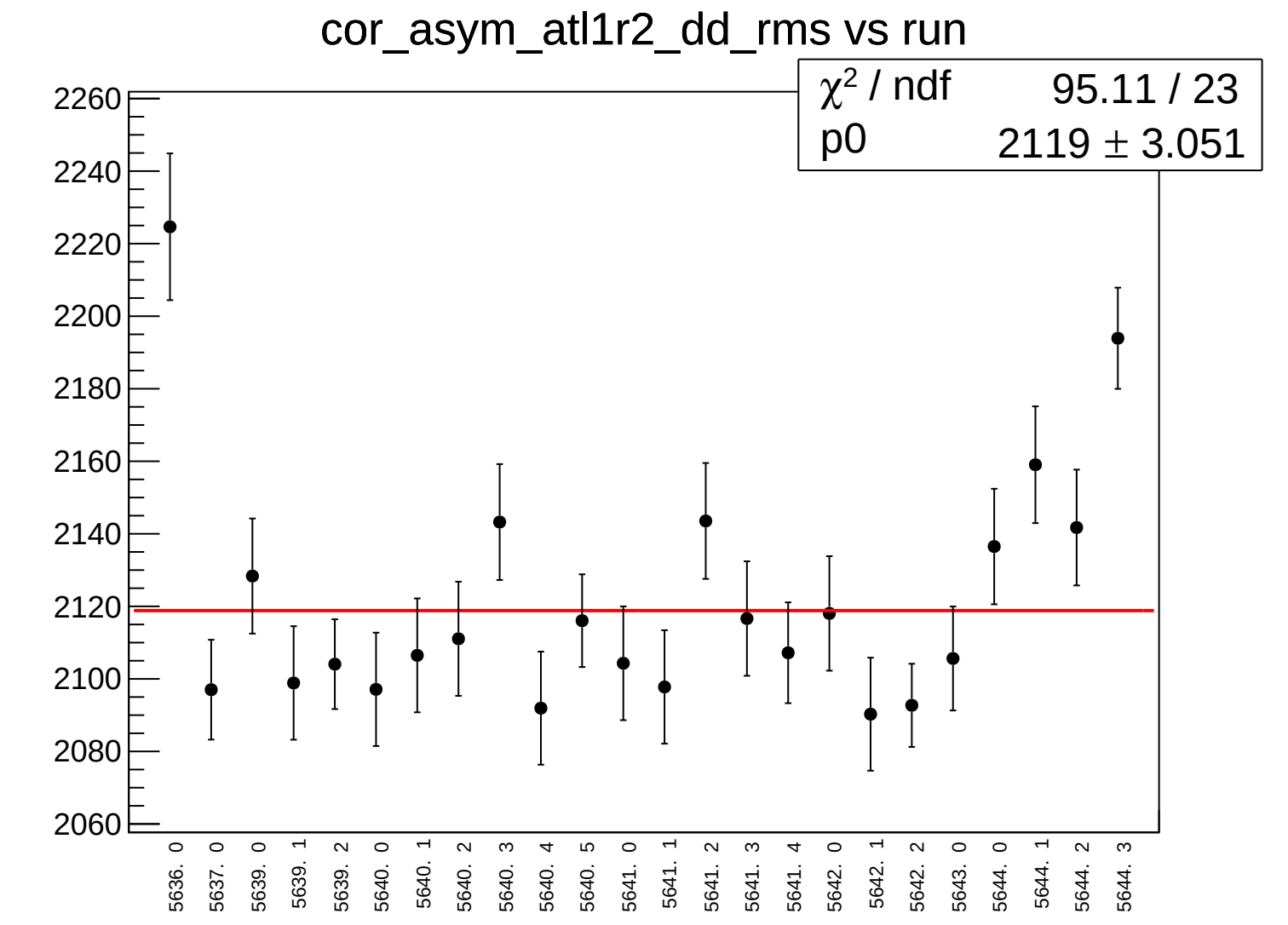

asym_atl1r2_dd_reg_correction_mean vs run
χ² / ndf 25.66 / 23
p0 −44.71 ± 550.4
10000
5000
0
−5000
−10000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −40.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

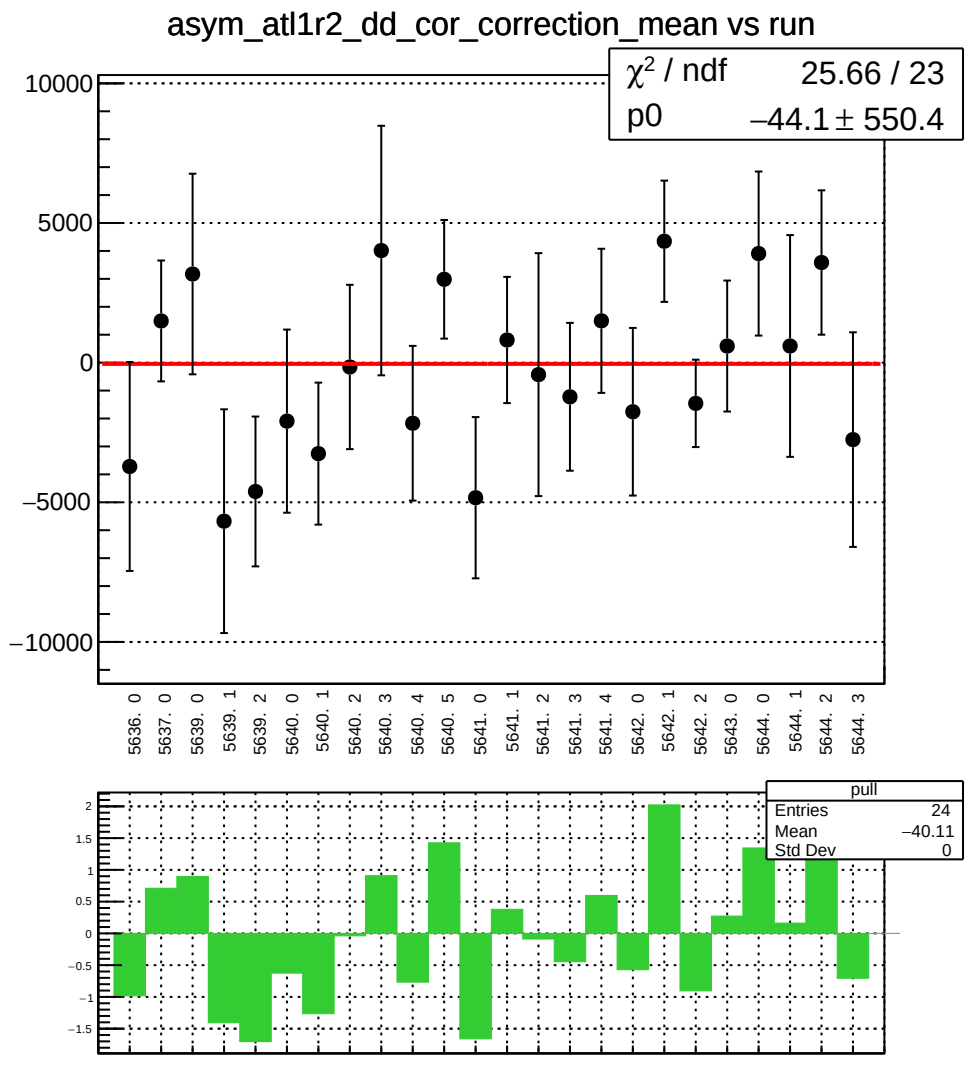

pull1D
Entries 24
Mean −0.04314
Std Dev 1.033
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

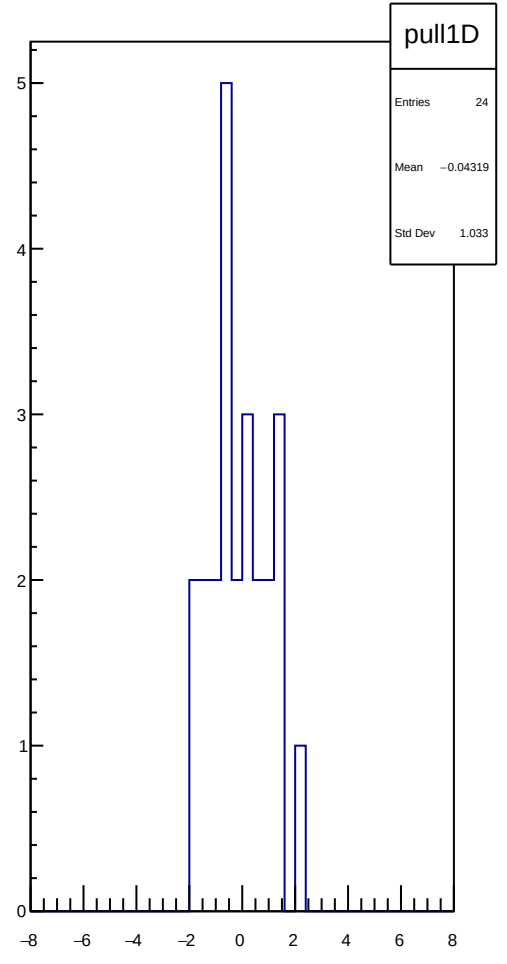

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 2.095e+04 / 23
p0 264.3 ± 0.3892
450
400
350
300
250
200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

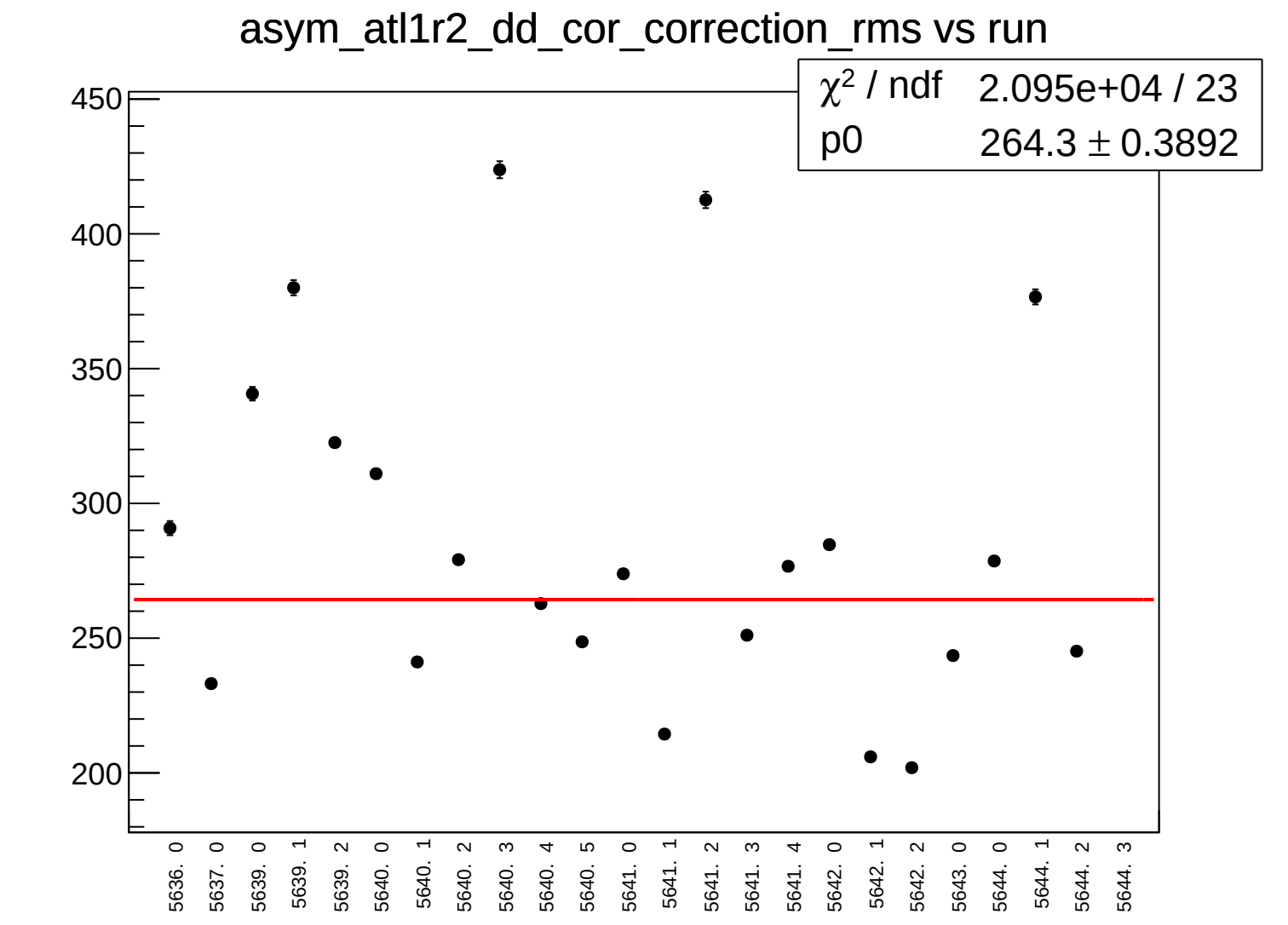

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 18.28 / 23
p0 −3528 ± 4315
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −236.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

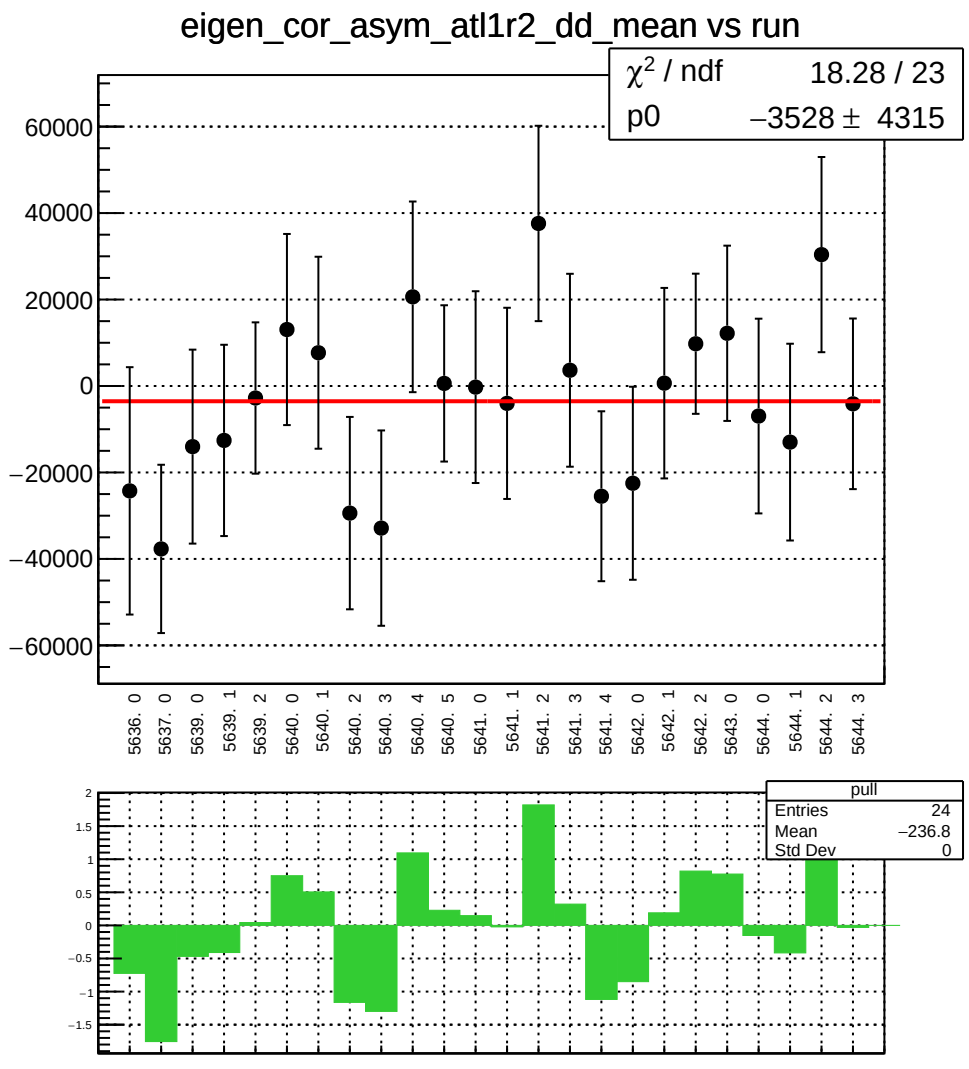

pull1D
Entries 24
Mean −0.008624
Std Dev 0.8726
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

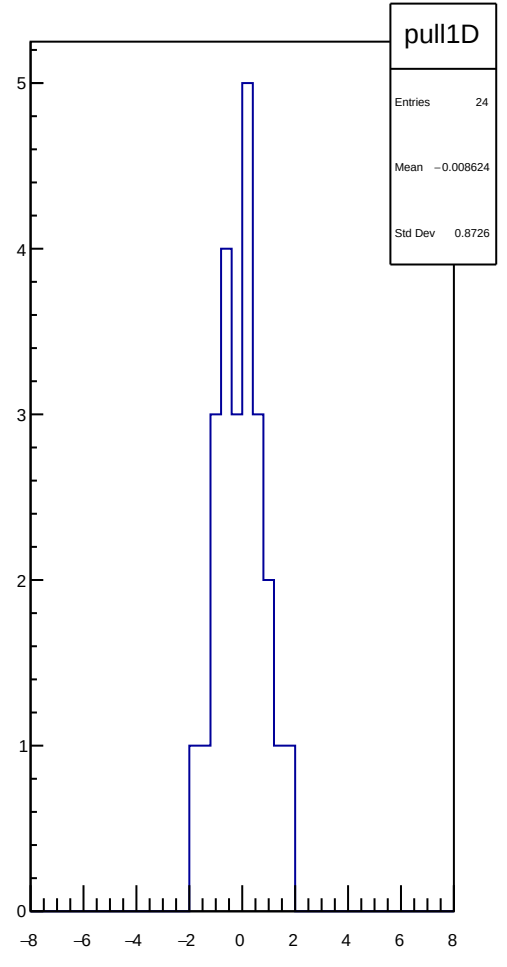

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 95.11 / 23
p0 2119 ± 3.051
2260
2240
2220
2200
2180
2160
2140
2120
2100
2080
2060
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

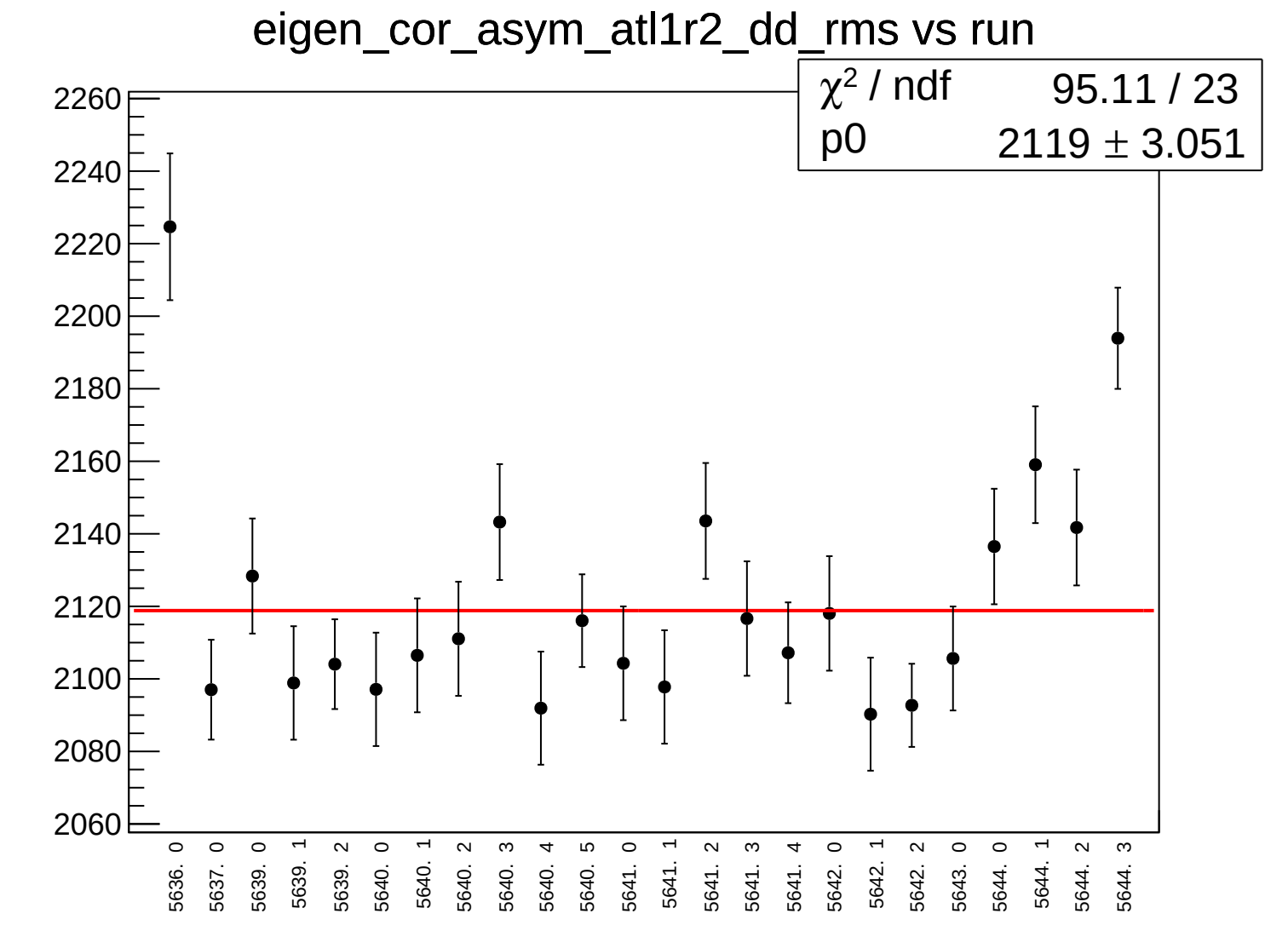

asym_atl1r2_dd_cor_correction_mean vs run
χ² / ndf 25.66 / 23
p0 −44.1 ± 550.4
10000
5000
0
−5000
−10000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −40.11
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

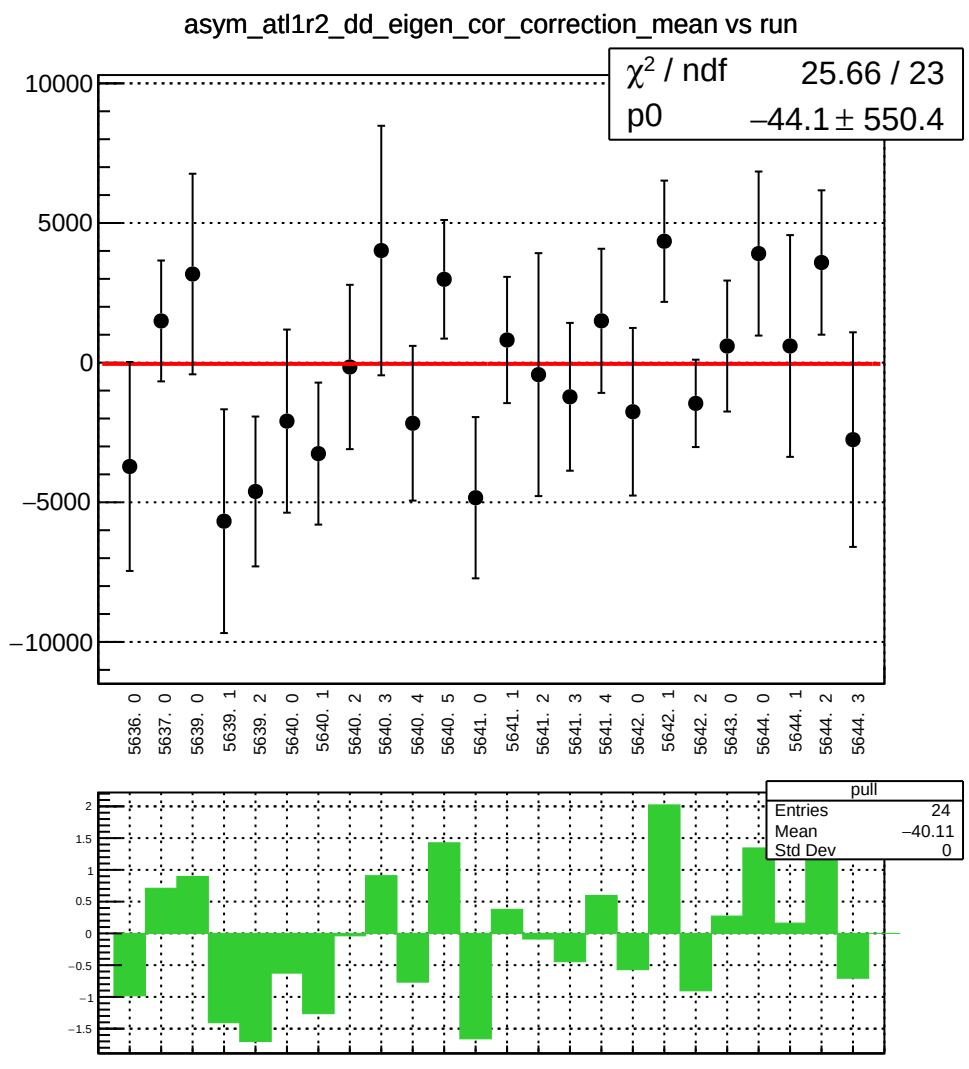

pull1D
Entries 24
Mean −0.04319
Std Dev 1.033
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

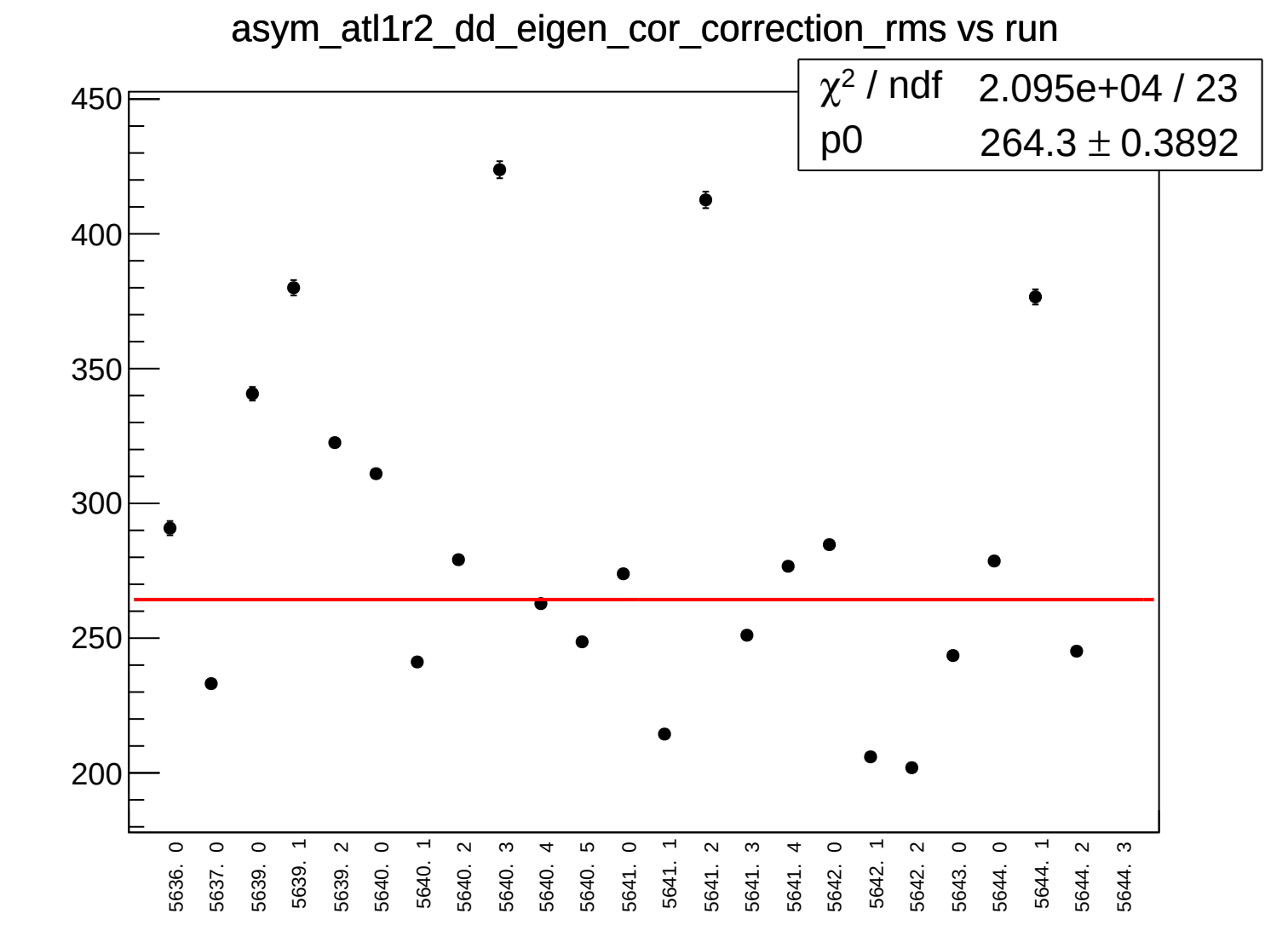

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 2.095e+04 / 23
p0 264.3 ± 0.3892
450
400
350
300
250
200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

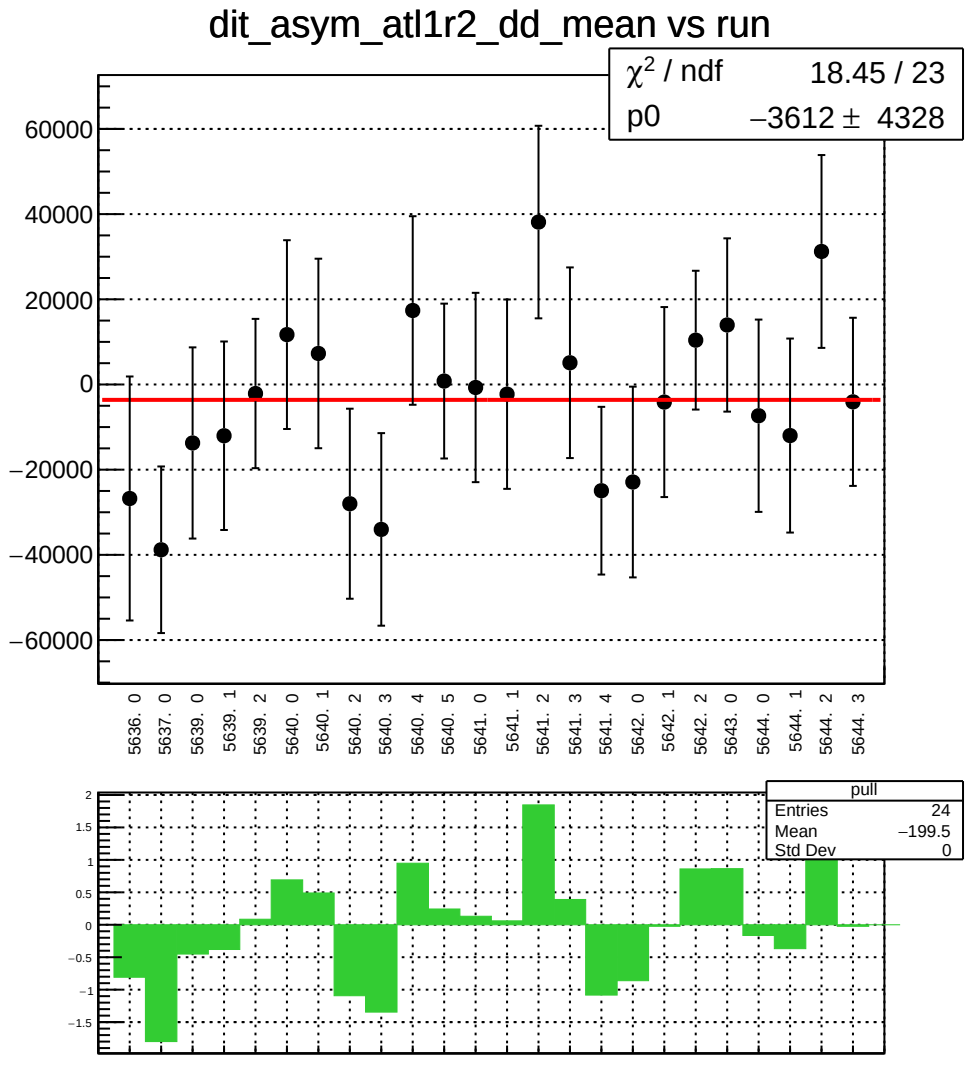

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 18.28 / 23
p0 −3528 ± 4315
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −236.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

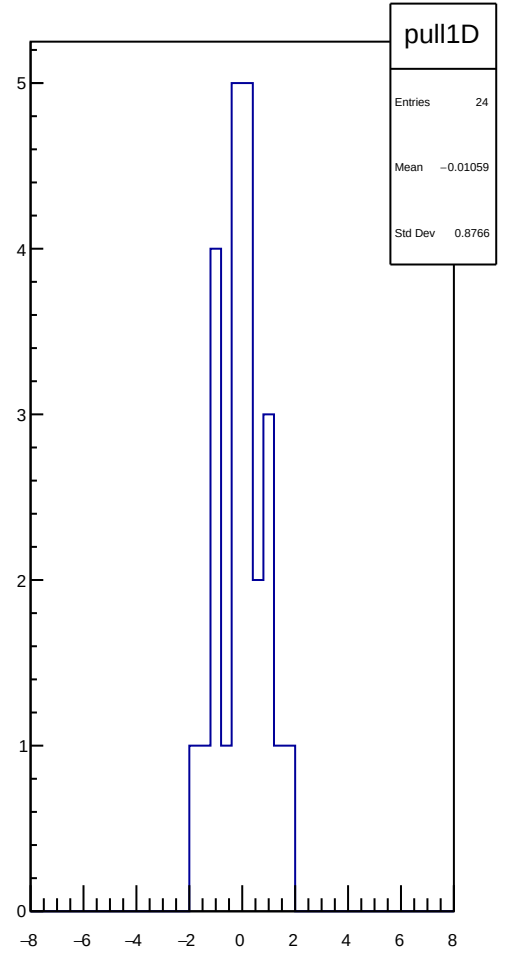

pull1D
Entries 24
Mean −0.008624
Std Dev 0.8726
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

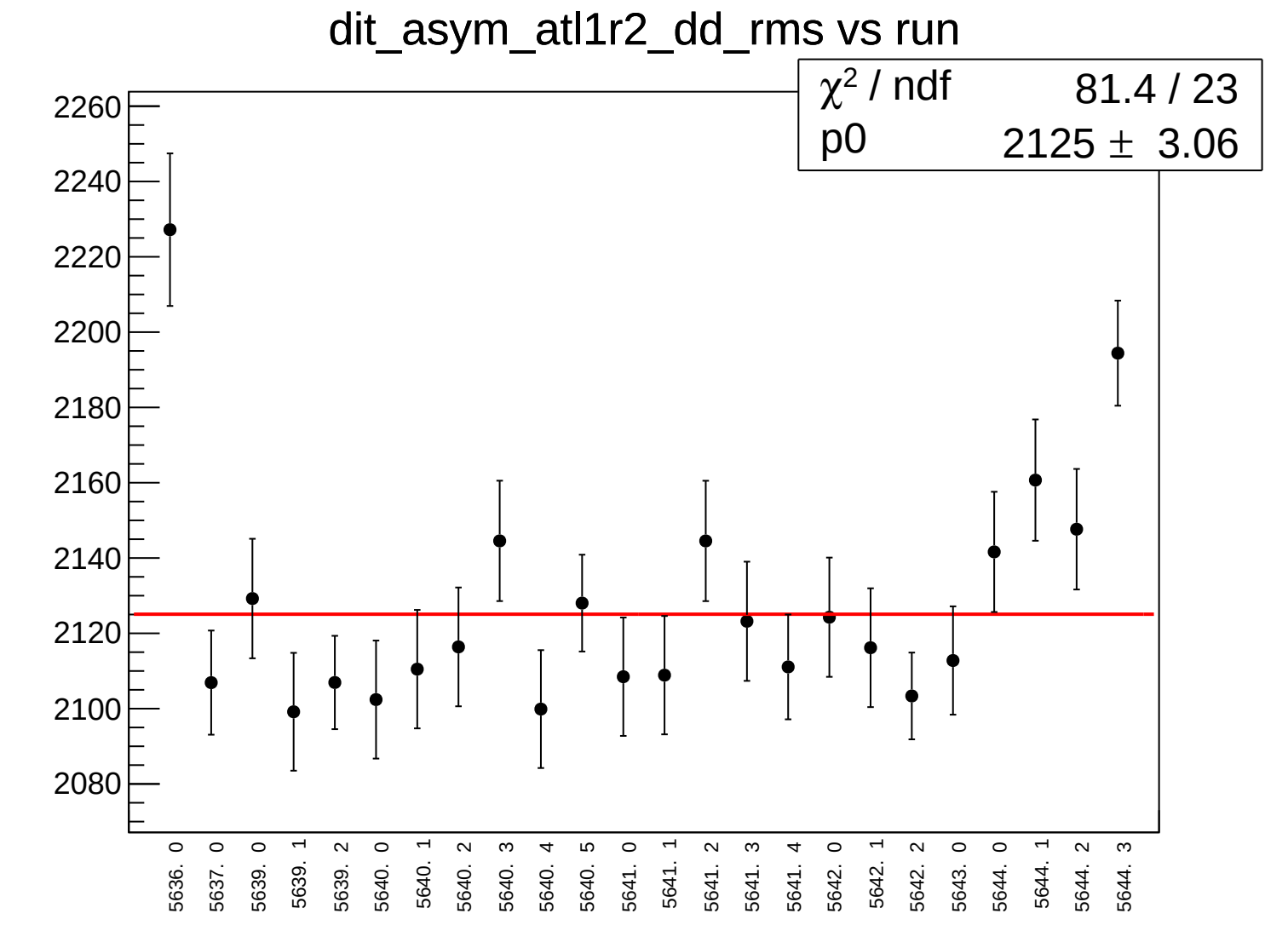

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 95.11 / 23
p0 2119 ± 3.051
2260
2240
2220
2200
2180
2160
2140
2120
2100
2080
2060
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

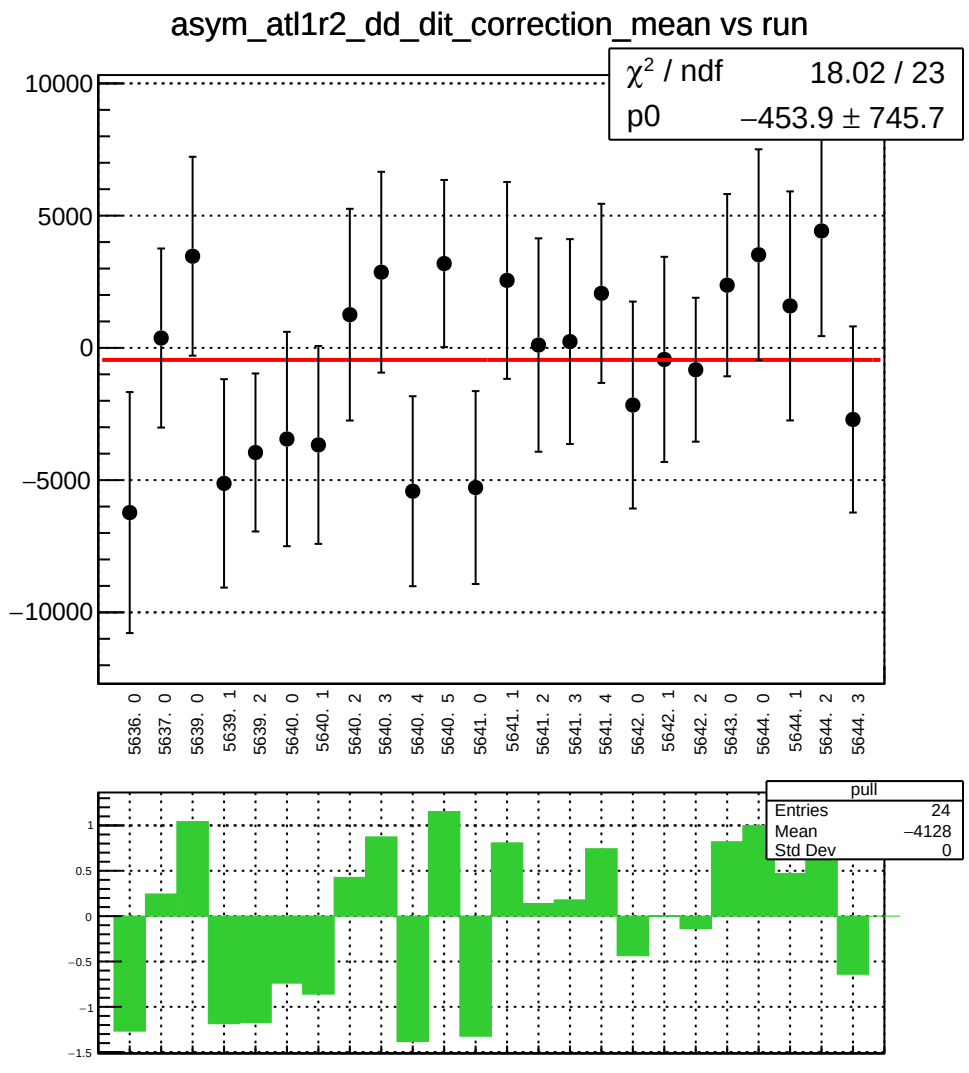

asym_atl1r2_dd_eigen_cor_correction_mean vs run
χ² / ndf 25.66 / 23
p0 −44.1 ± 550.4
10000
5000
0
−5000
−10000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −40.11
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.04319
Std Dev 1.033
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

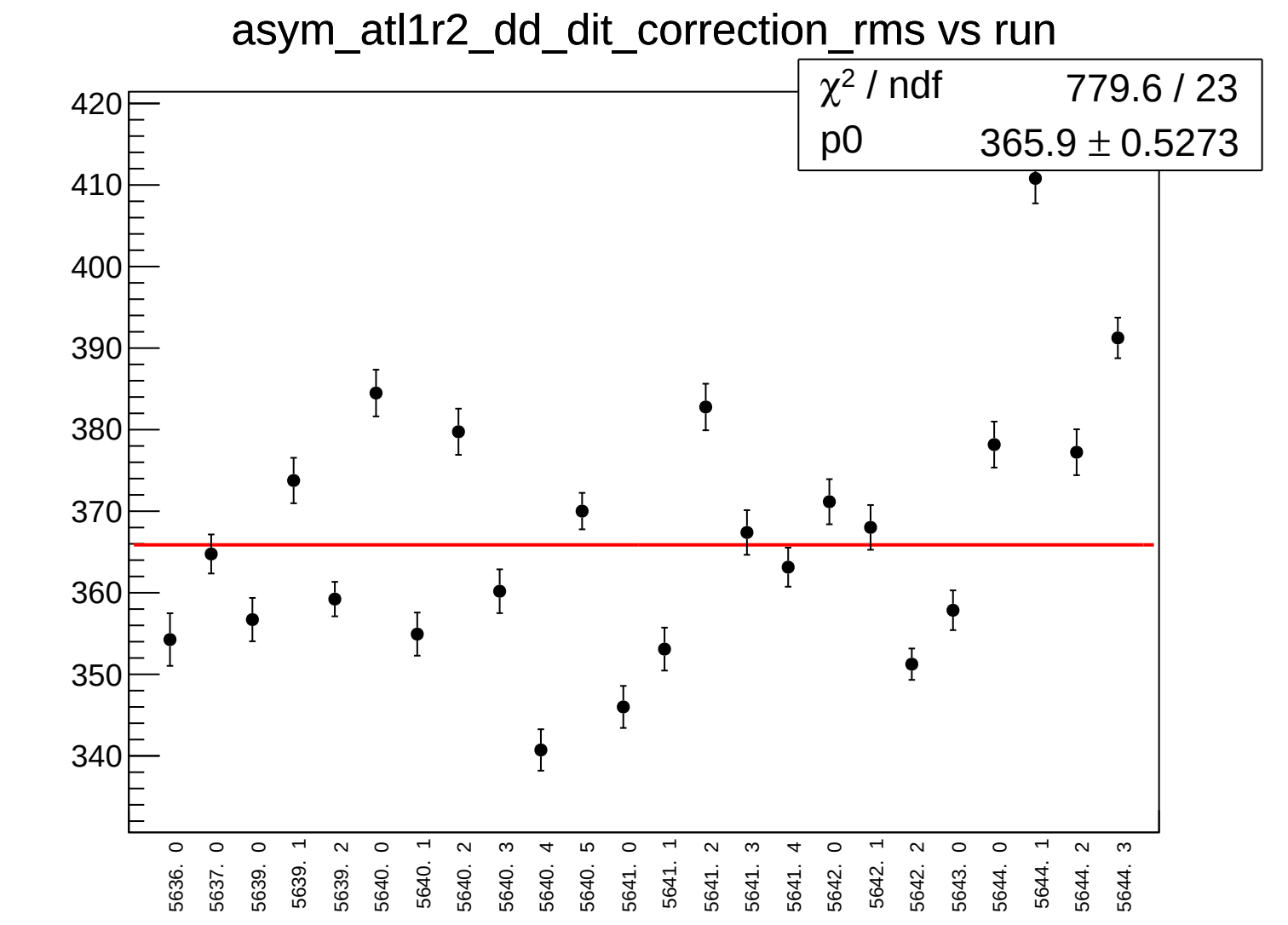

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.095e+04 / 23
p0 264.3 ± 0.3892
450
400
350
300
250
200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

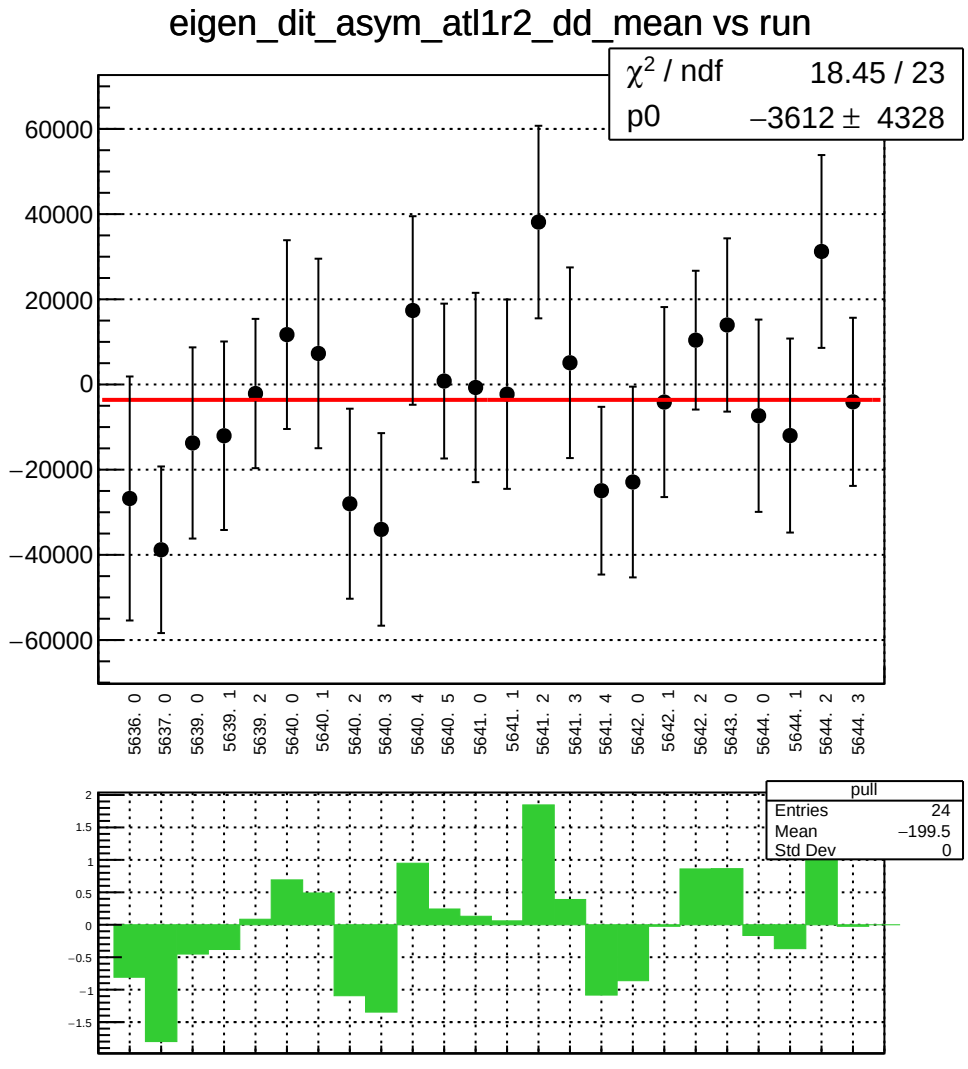

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 18.45 / 23
p0 −3612 ± 4328
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −199.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

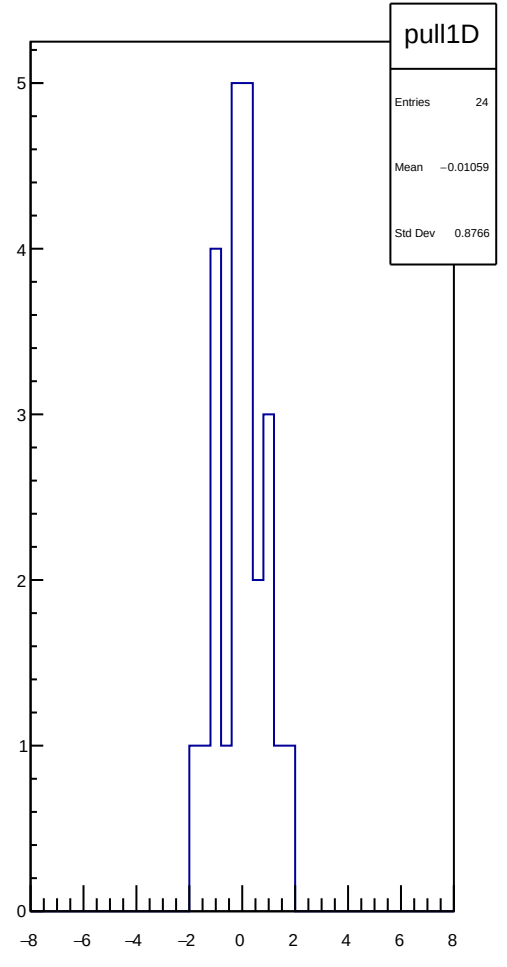

pull1D
Entries 24
Mean −0.01059
Std Dev 0.8766
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

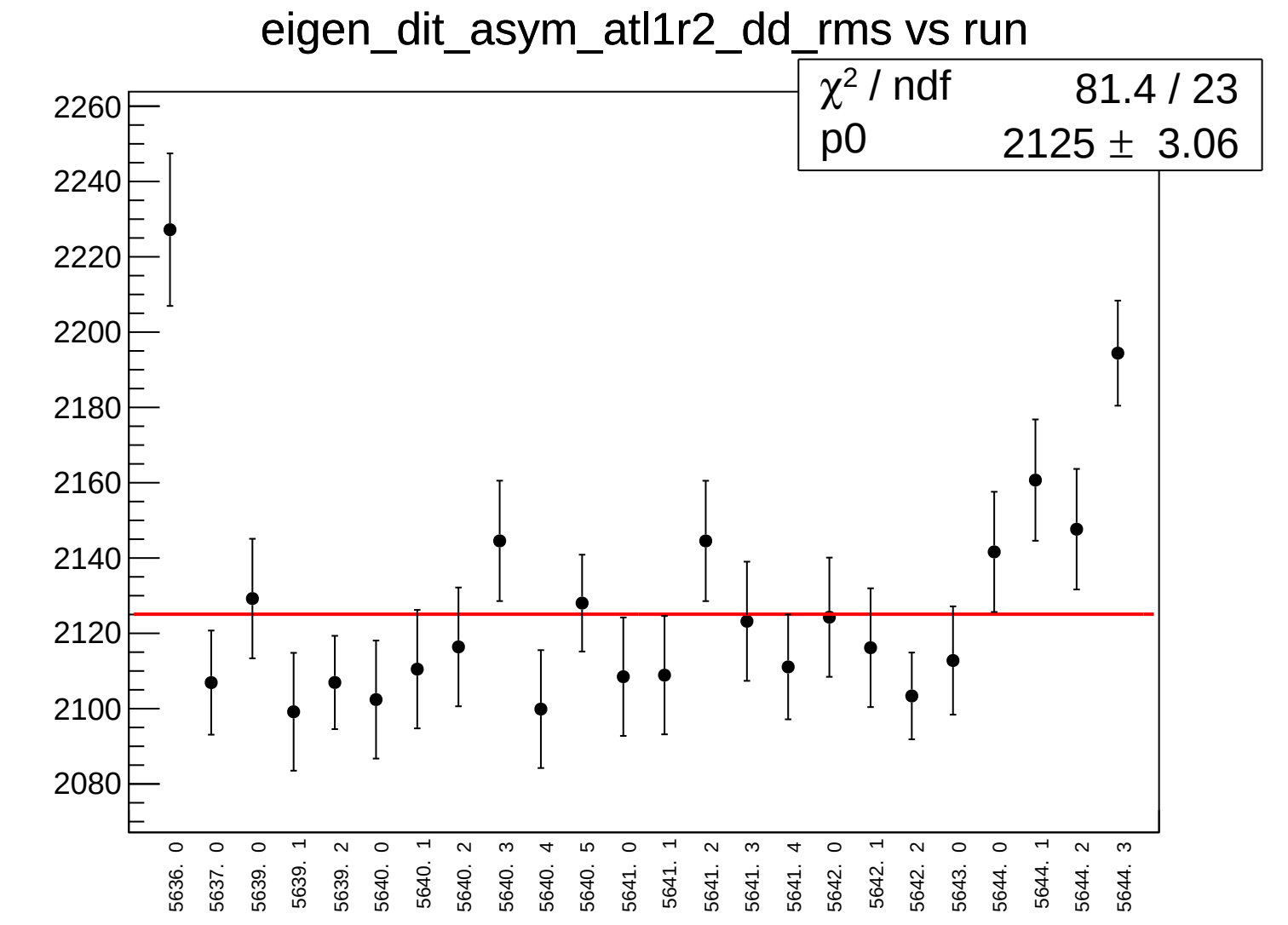

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 81.4 / 23
p0 2125 ± 3.06
2260
2240
2220
2200
2180
2160
2140
2120
2100
2080
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

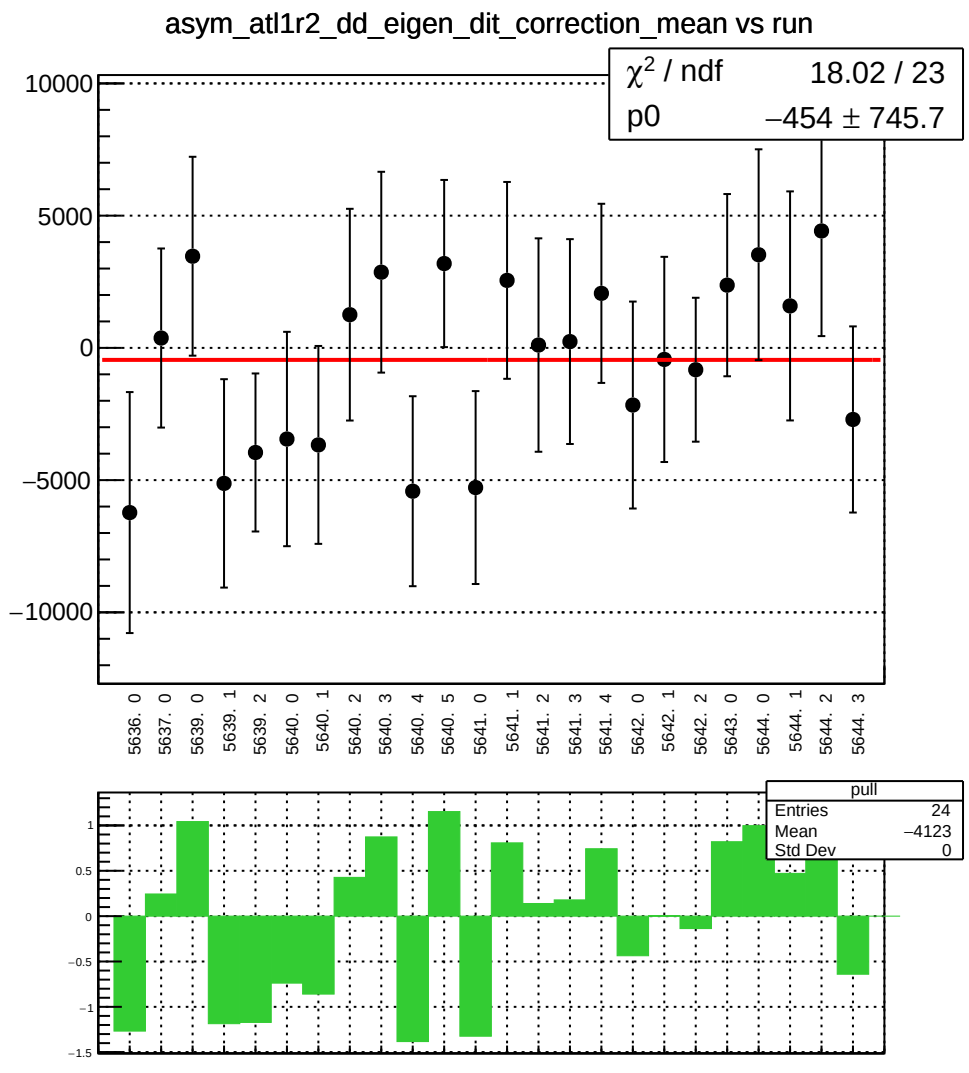

asym_atl1r2_dd_dit_correction_mean vs run
χ² / ndf 18.02 / 23
p0 −453.9 ± 745.7
10000
5000
0
−5000
−10000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −4128
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.000537
Std Dev 0.8665
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

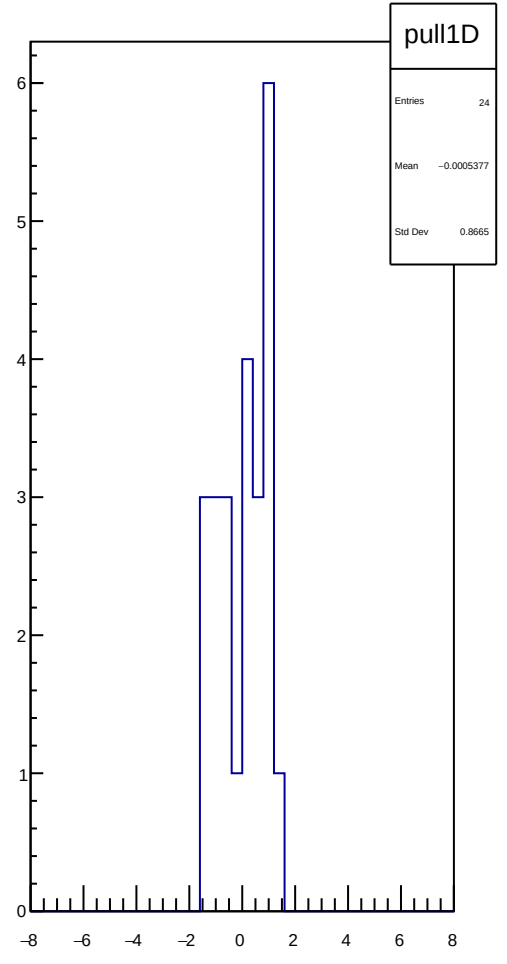

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 779.6 / 23
p0 365.9 ± 0.5273
420
410
400
390
380
370
360
350
340
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

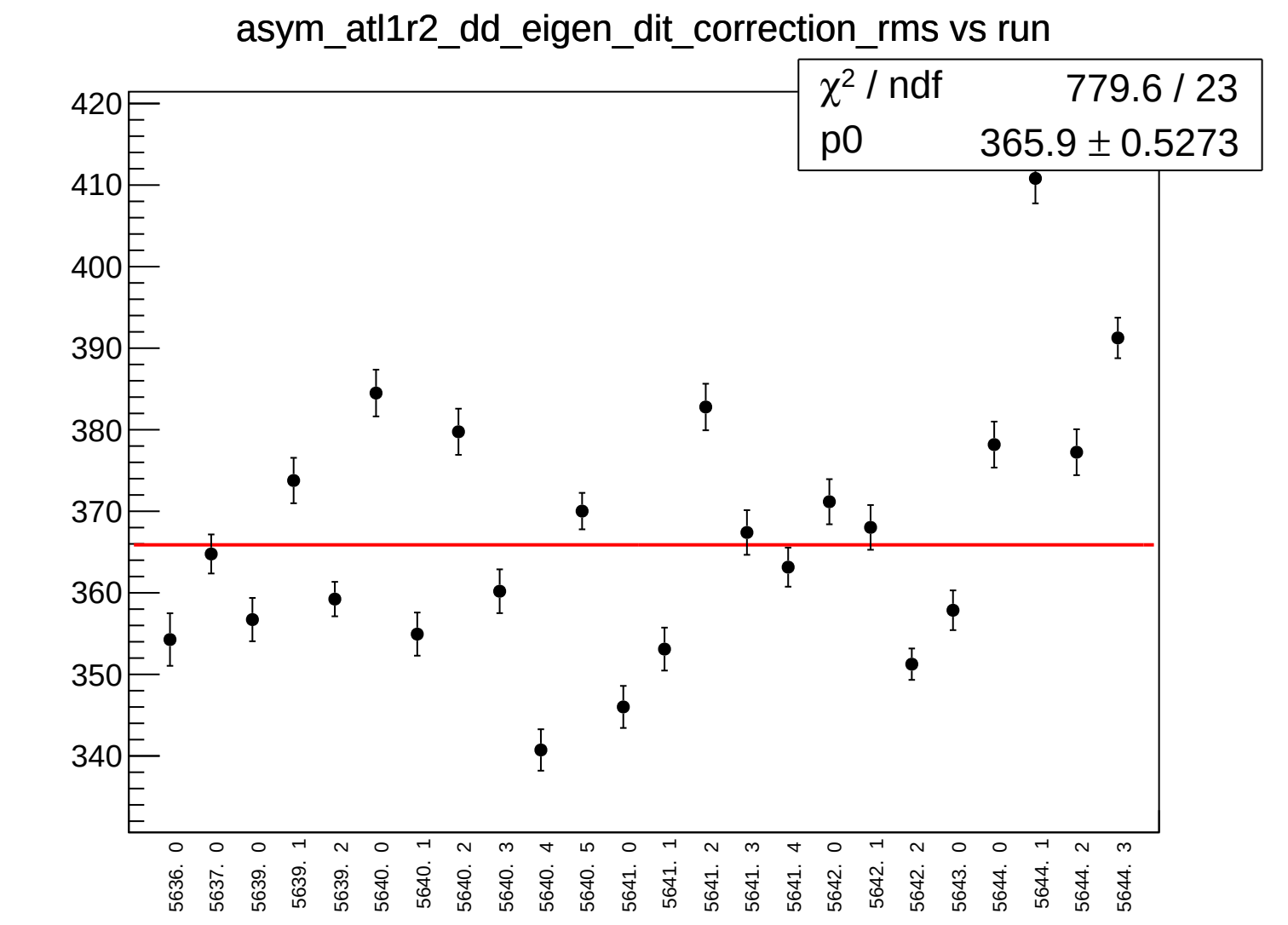

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 18.45 / 23
p0 −3612 ± 4328
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −199.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

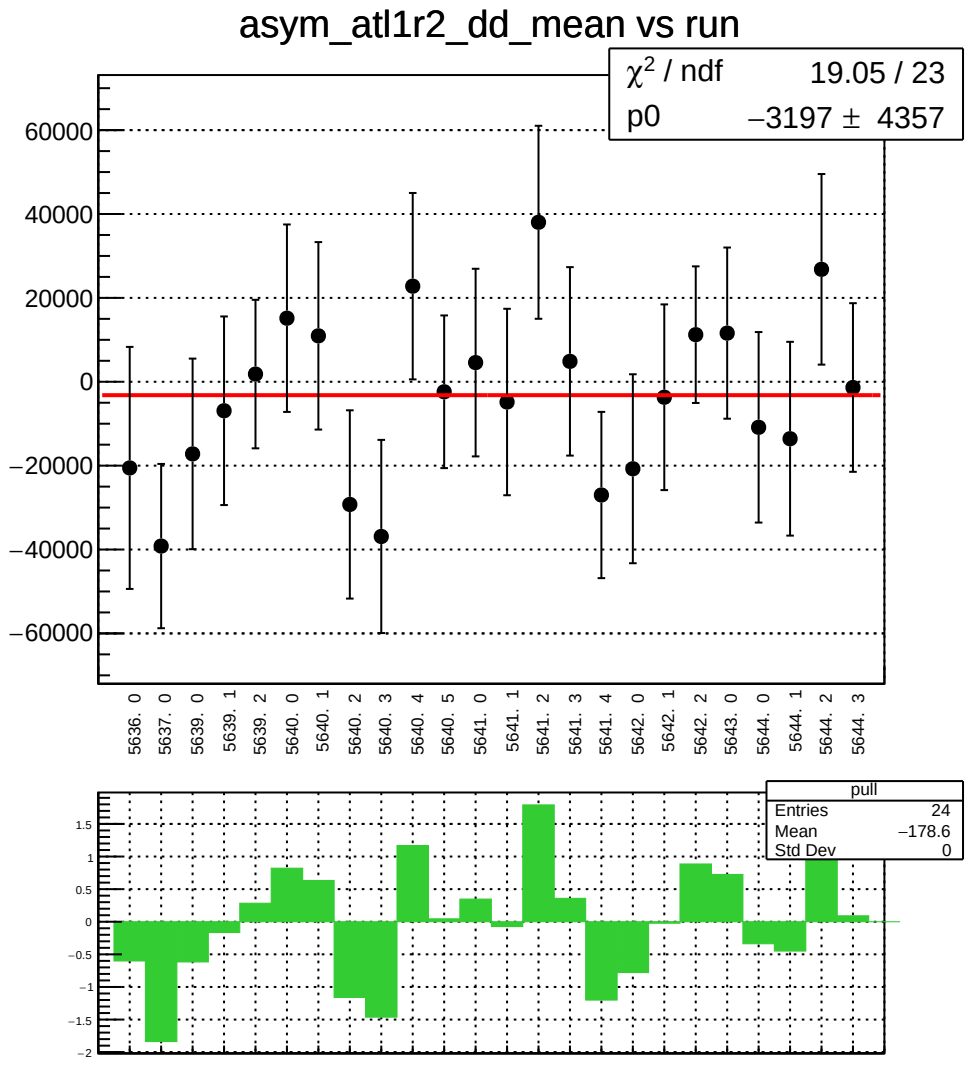

pull1D
Entries 24
Mean −0.01059
Std Dev 0.8766
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

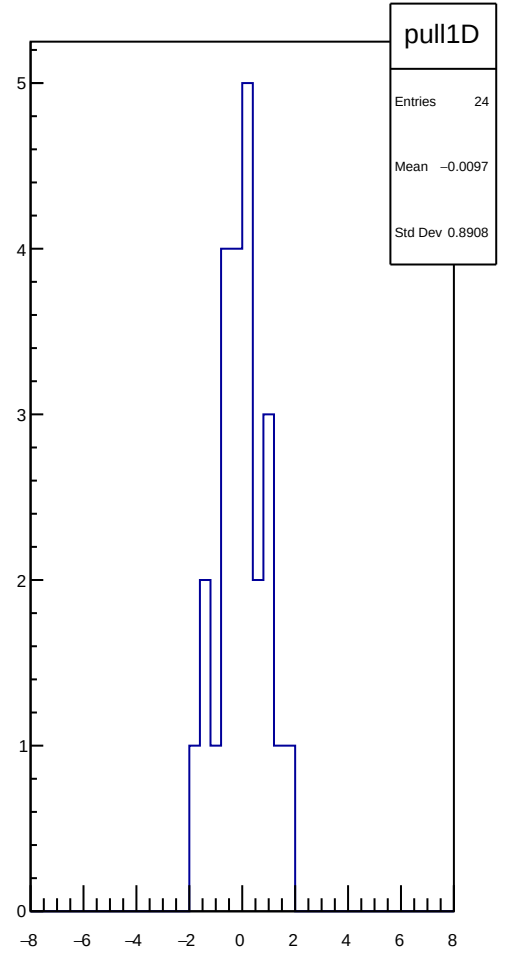

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 81.4 / 23
p0 2125 ± 3.06
2260
2240
2220
2200
2180
2160
2140
2120
2100
2080
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

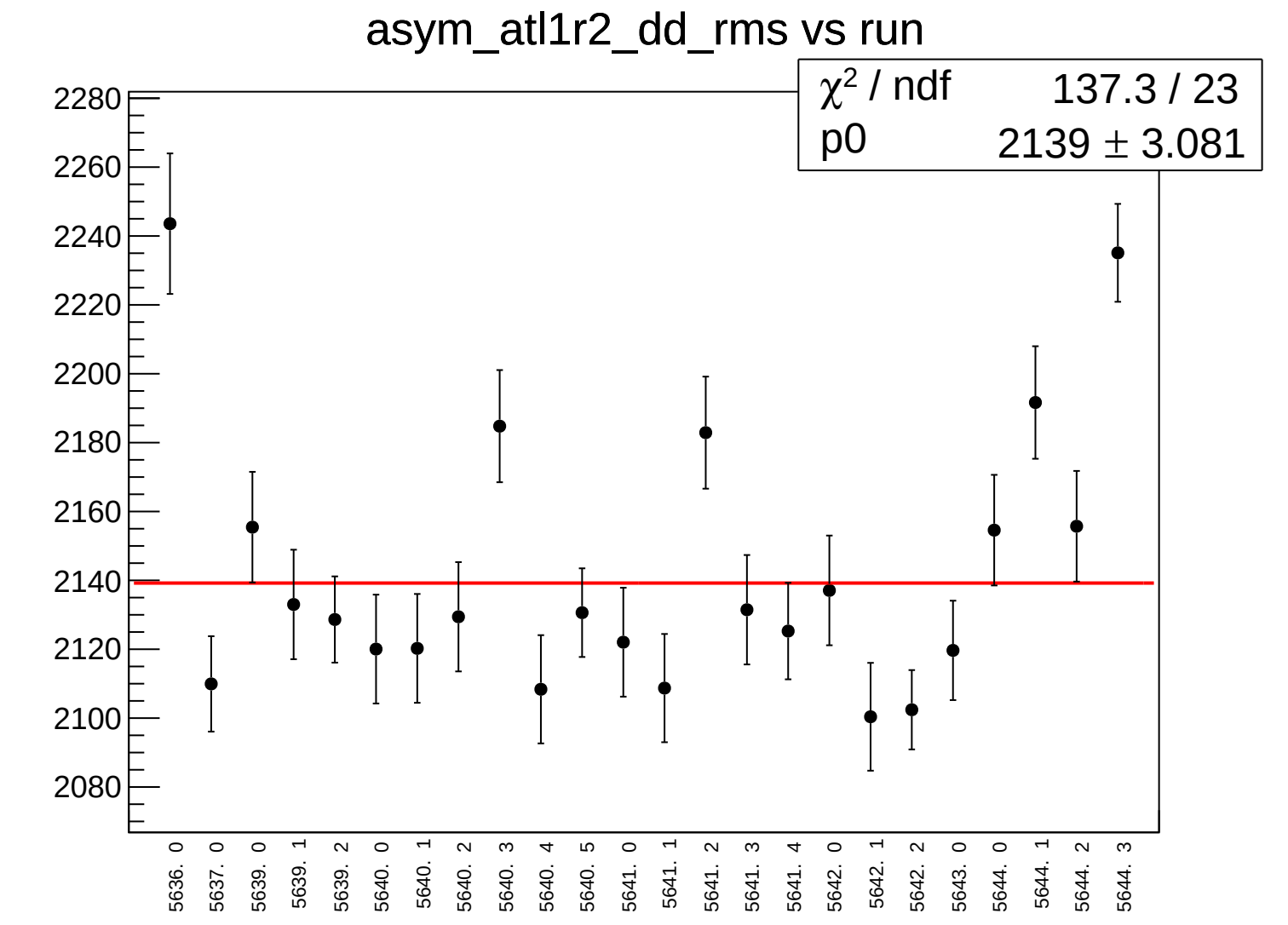

asym_atl1r2_dd_eigen_dit_correction_mean vs run
χ² / ndf 18.02 / 23
p0 −454 ± 745.7
10000
5000
0
−5000
−10000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −4123
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

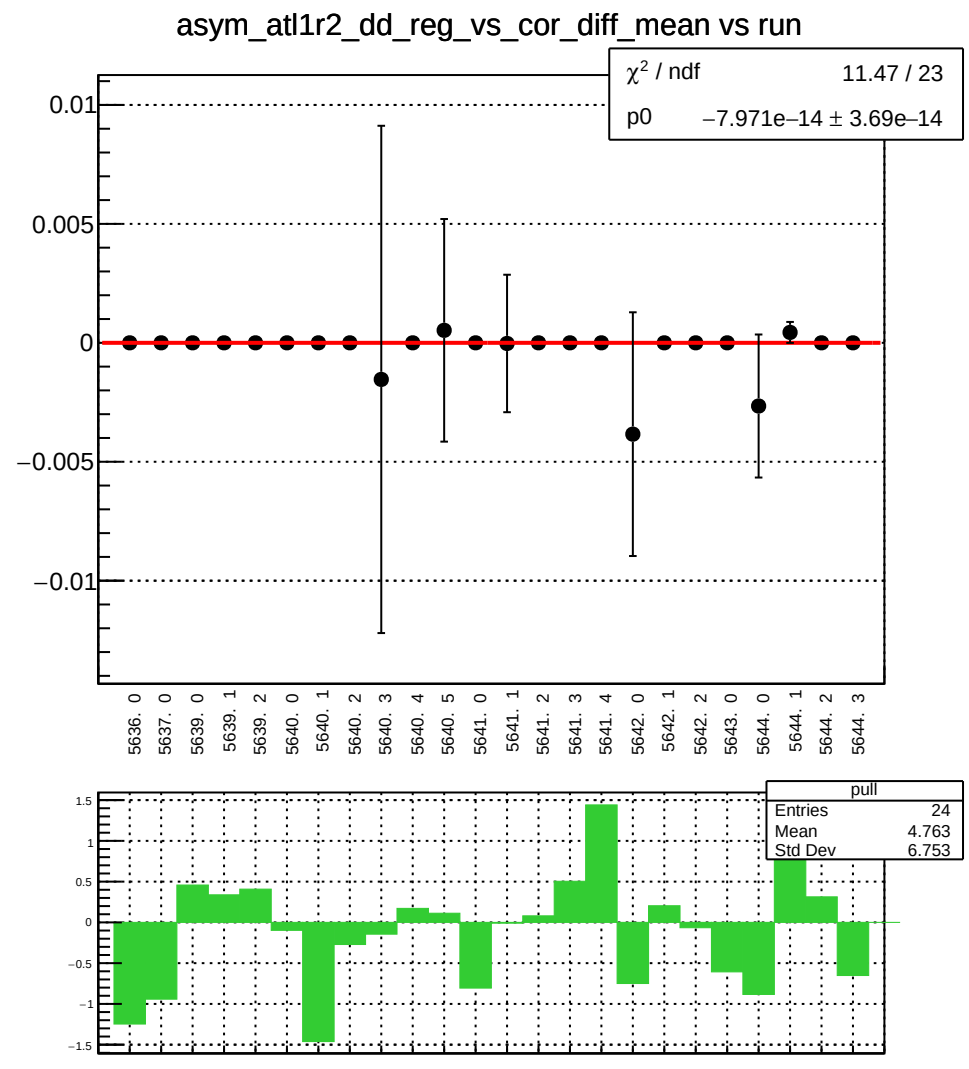

pull1D
Entries 24
Mean −0.0005377
Std Dev 0.8665
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

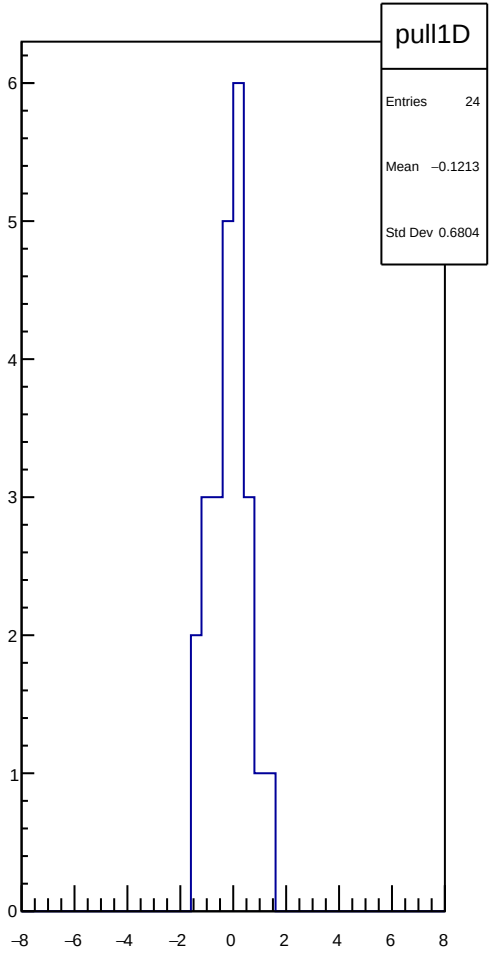

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 779.6 / 23
p0 365.9 ± 0.5273
420
410
400
390
380
370
360
350
340
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

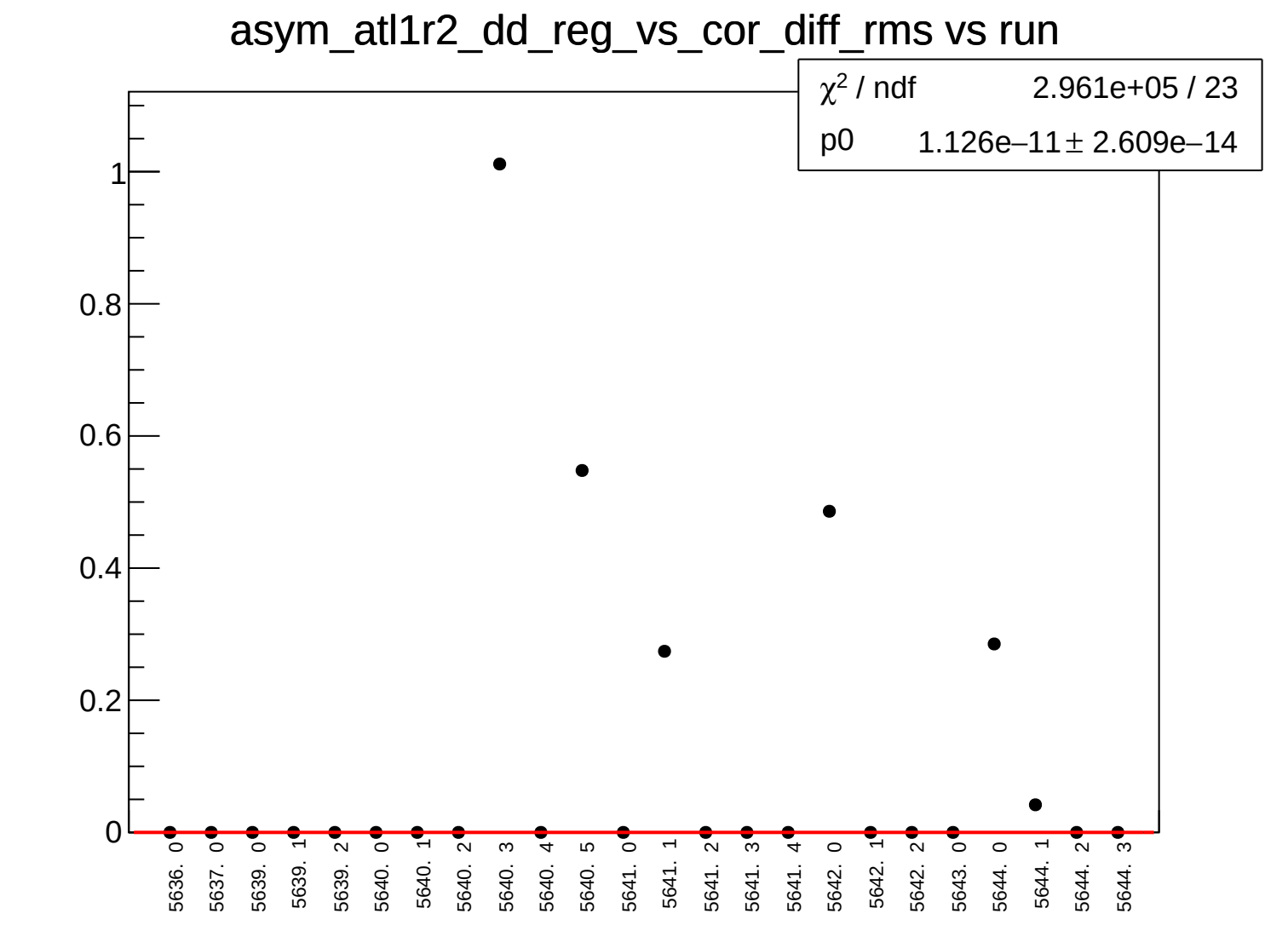

asym_atl1r2_dd_mean vs run
χ² / ndf 19.05 / 23
p0 −3197 ± 4357
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −178.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

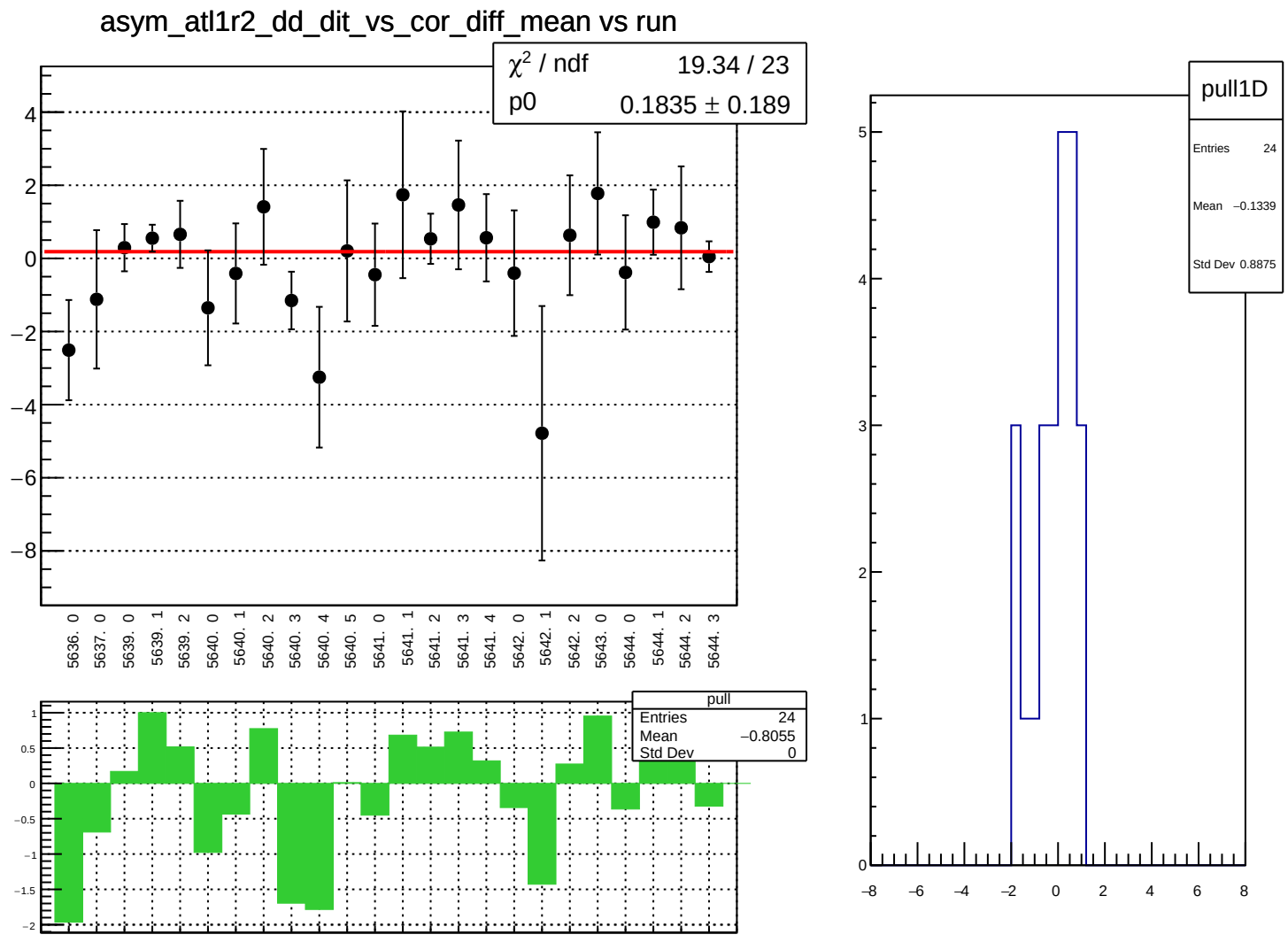

pull1D
Entries 24
Mean −0.0097
Std Dev 0.8908
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

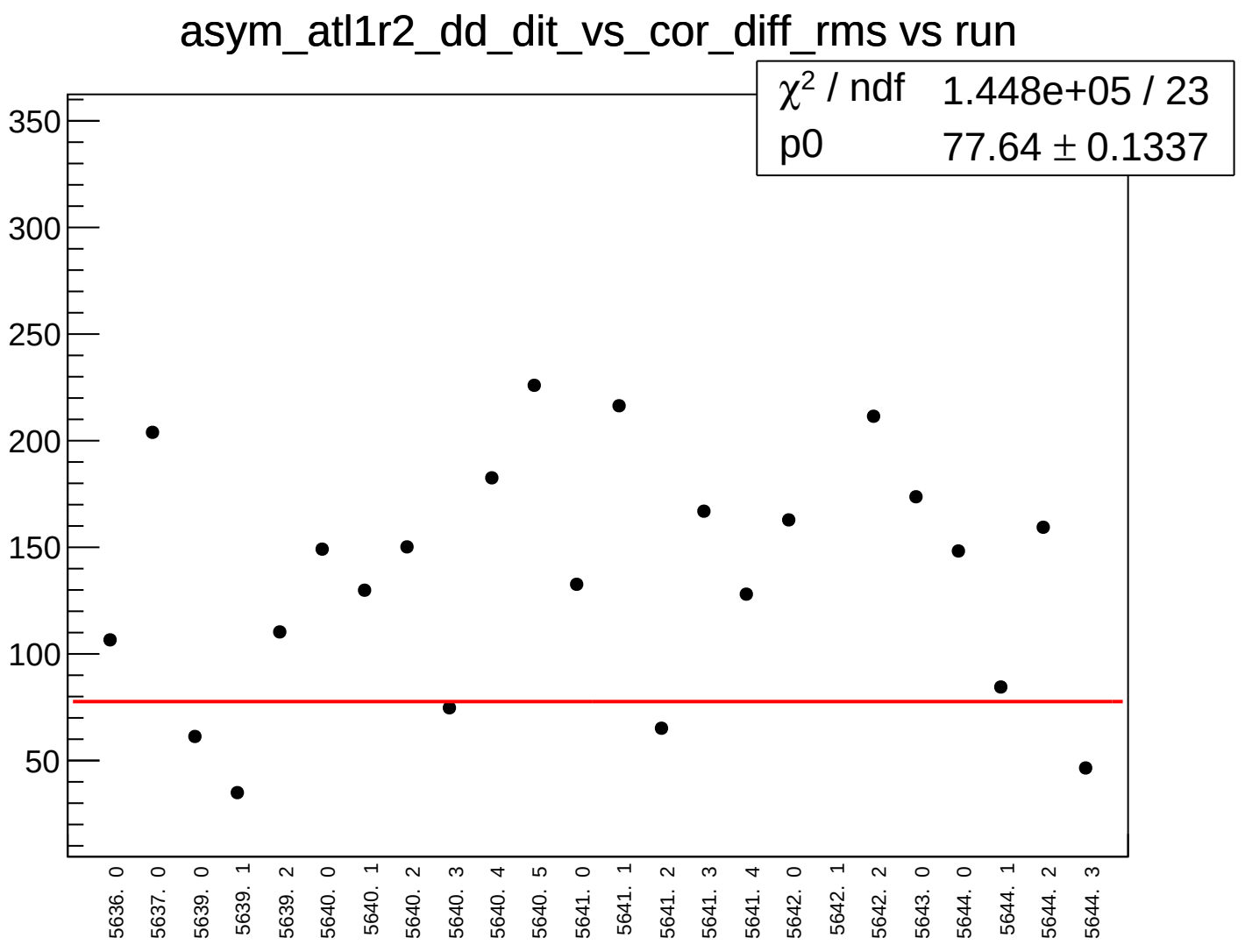

asym_atl1r2_dd_rms vs run
χ² / ndf 137.3 / 23
p0 2139 ± 3.081
2280
2260
2240
2220
2200
2180
2160
2140
2120
2100
2080
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

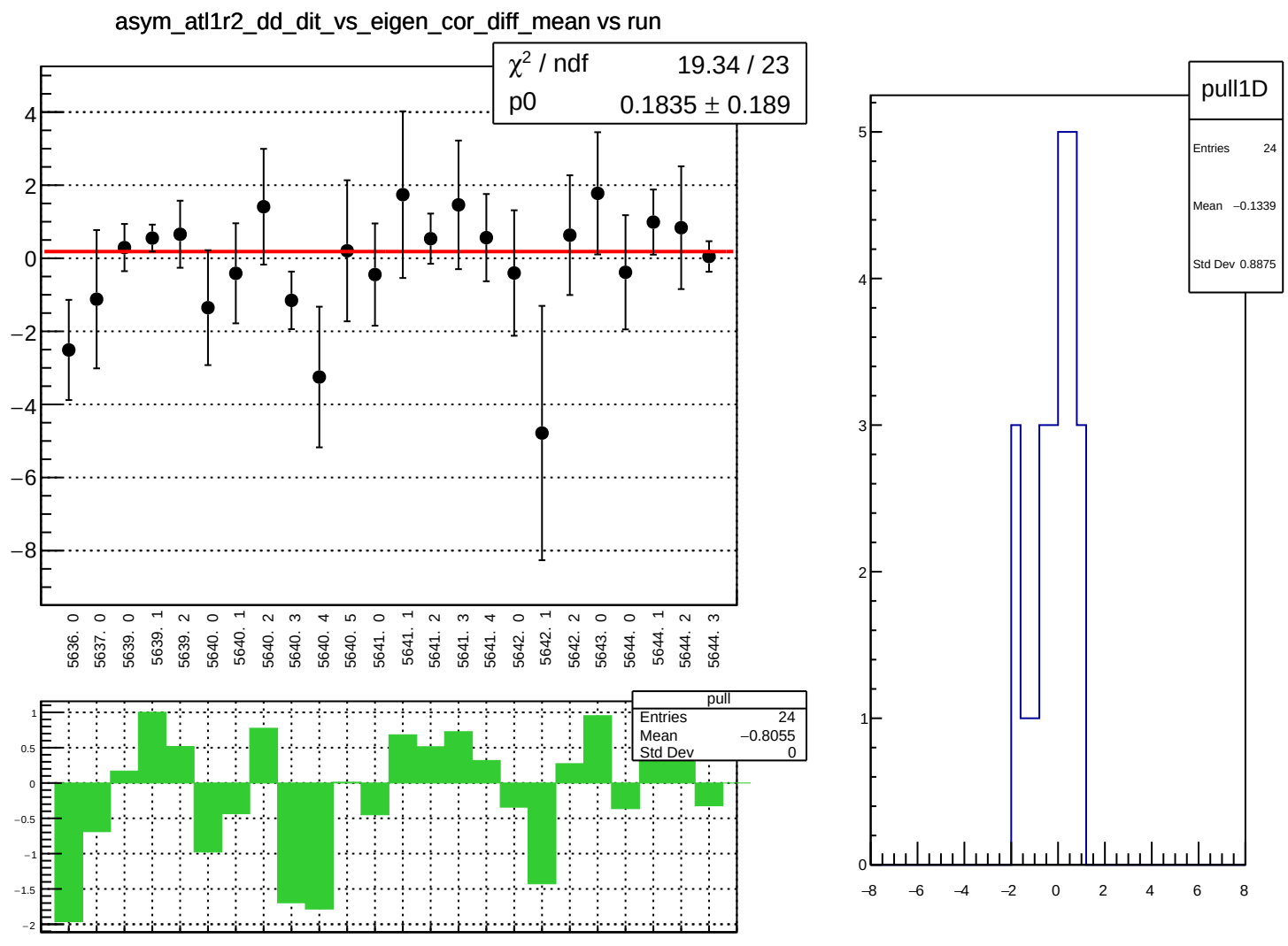

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 11.47 / 23
p0 −7.971e−14 ± 3.69e−14
0.01
0.005
0
−0.005
−0.01
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 4.763
Std Dev 6.753
1.5
1
0.5
0
−0.5
−1
−1.5

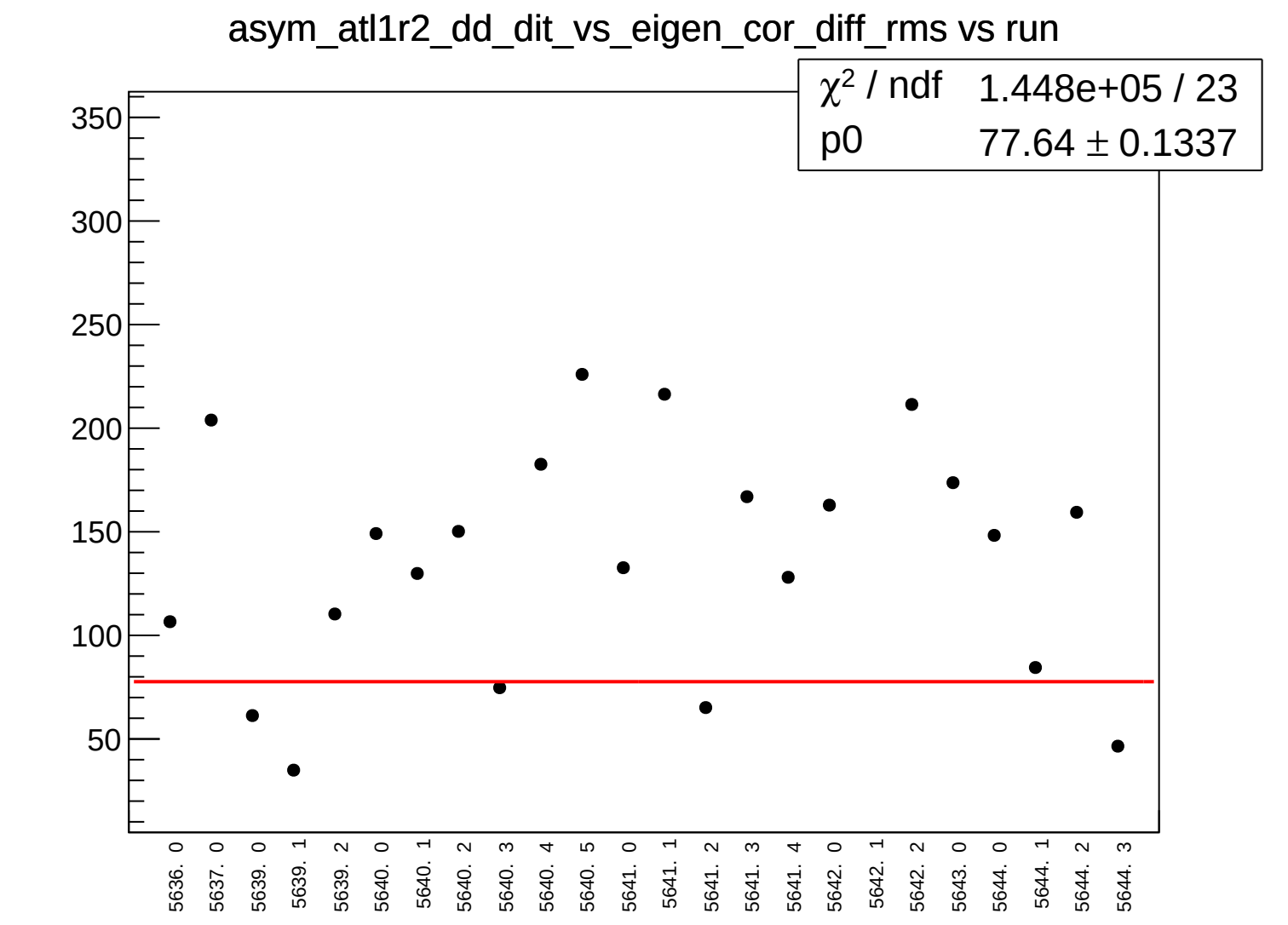

pull1D
Entries 24
Mean −0.1213
Std Dev 0.6804
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

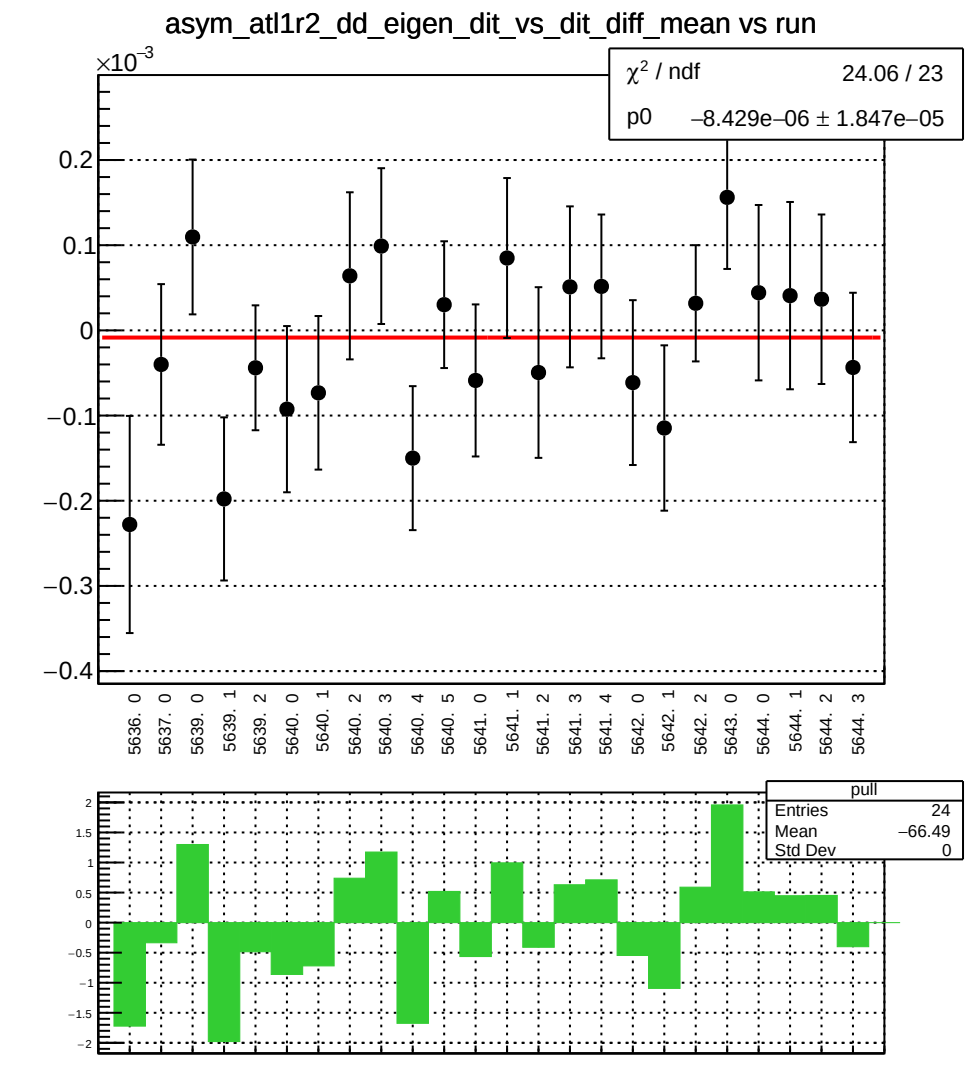

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.961e+05 / 23
p0 1.126e−11 ± 2.609e−14
1
0.8
0.6
0.4
0.2
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

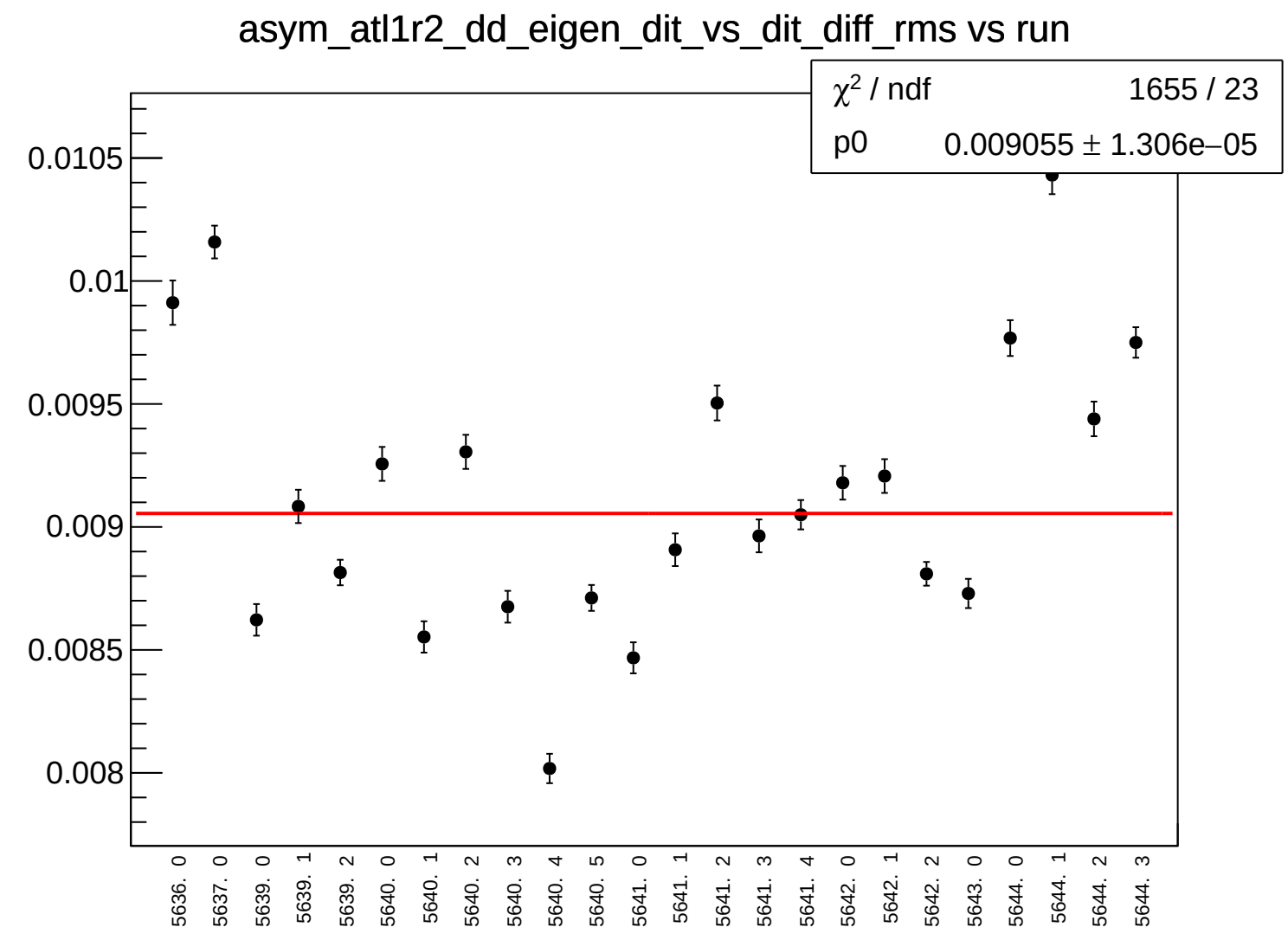

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 19.34 / 23
p0 0.1835 ± 0.189
4
2
0
−2
−4
−6
−8
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −0.8055
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.1339
Std Dev 0.8875
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

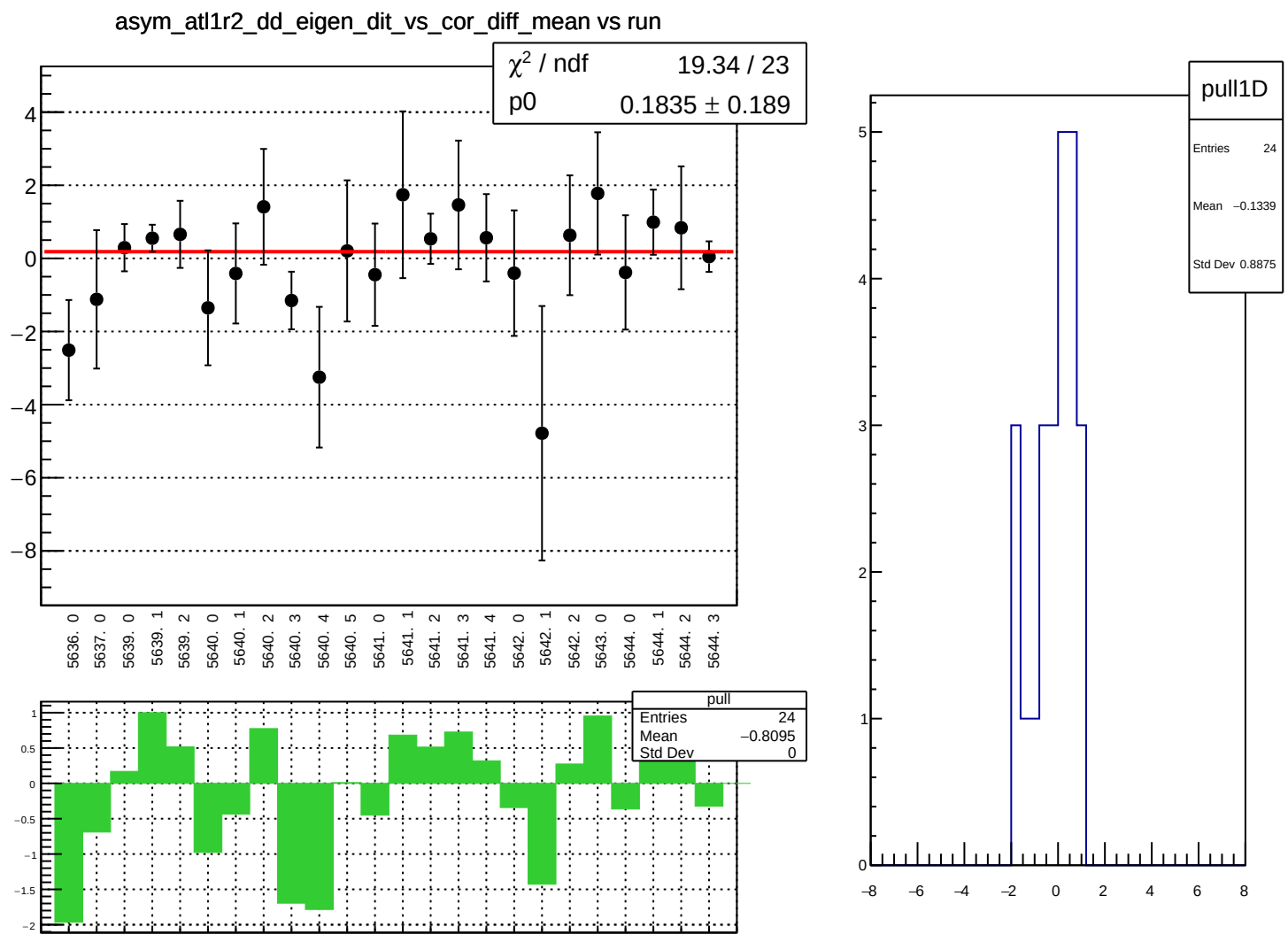

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.448e+05 / 23
p0 77.64 ± 0.1337
350
300
250
200
150
100
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

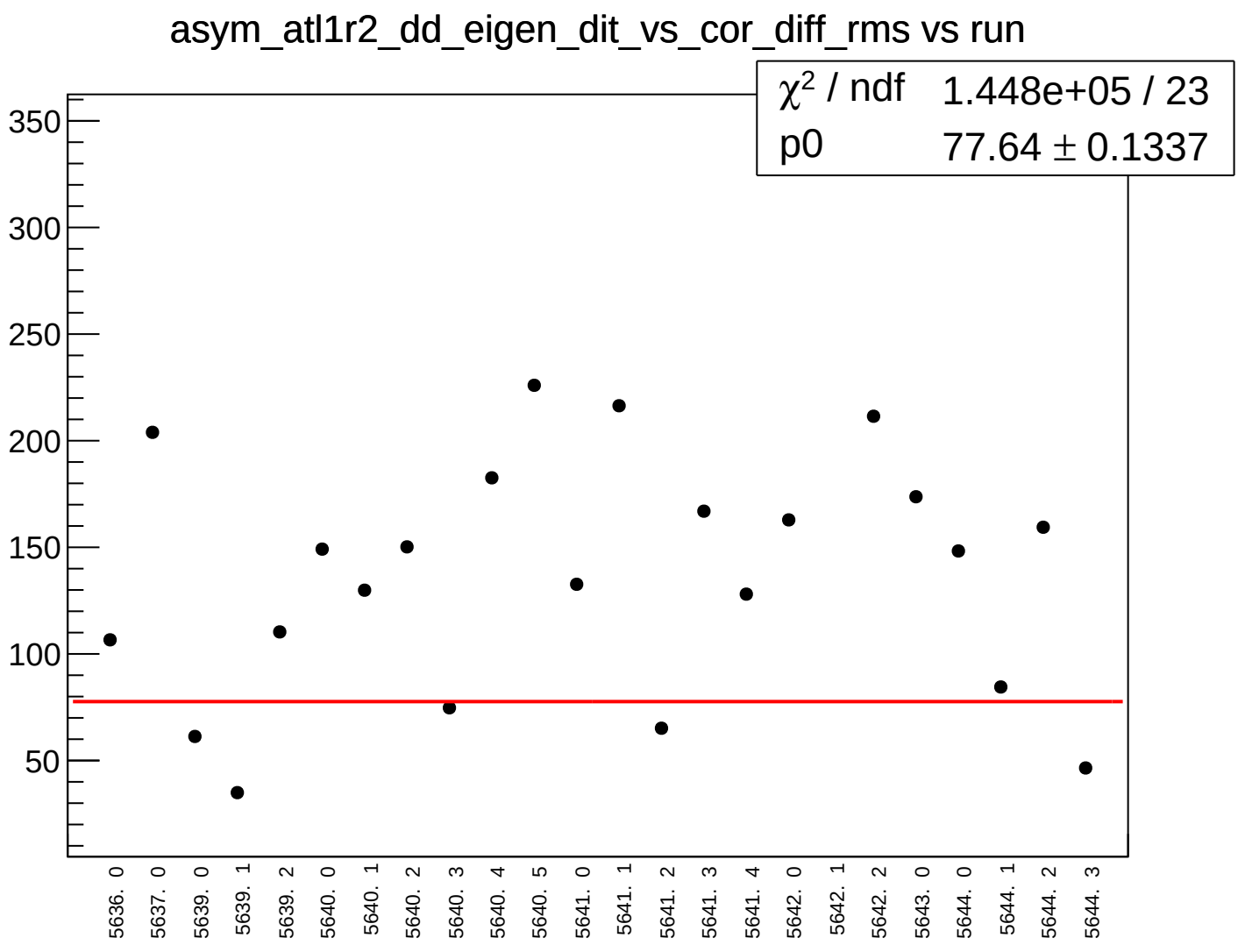

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 19.34 / 23
p0 0.1835 ± 0.189
4
2
0
−2
−4
−6
−8
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −0.8055
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.1339
Std Dev 0.8875
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

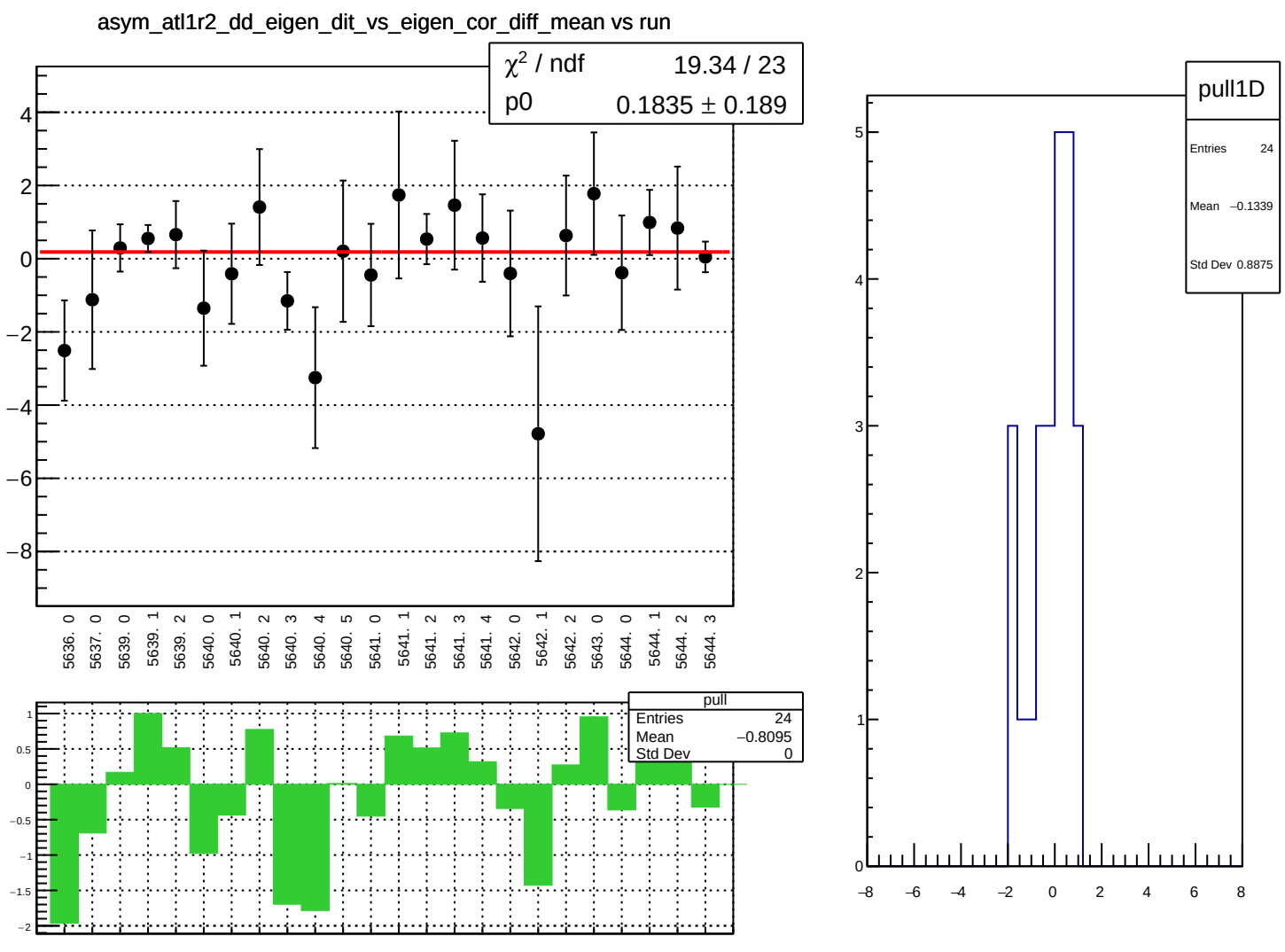

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.448e+05 / 23
p0 77.64 ± 0.1337
350
300
250
200
150
100
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

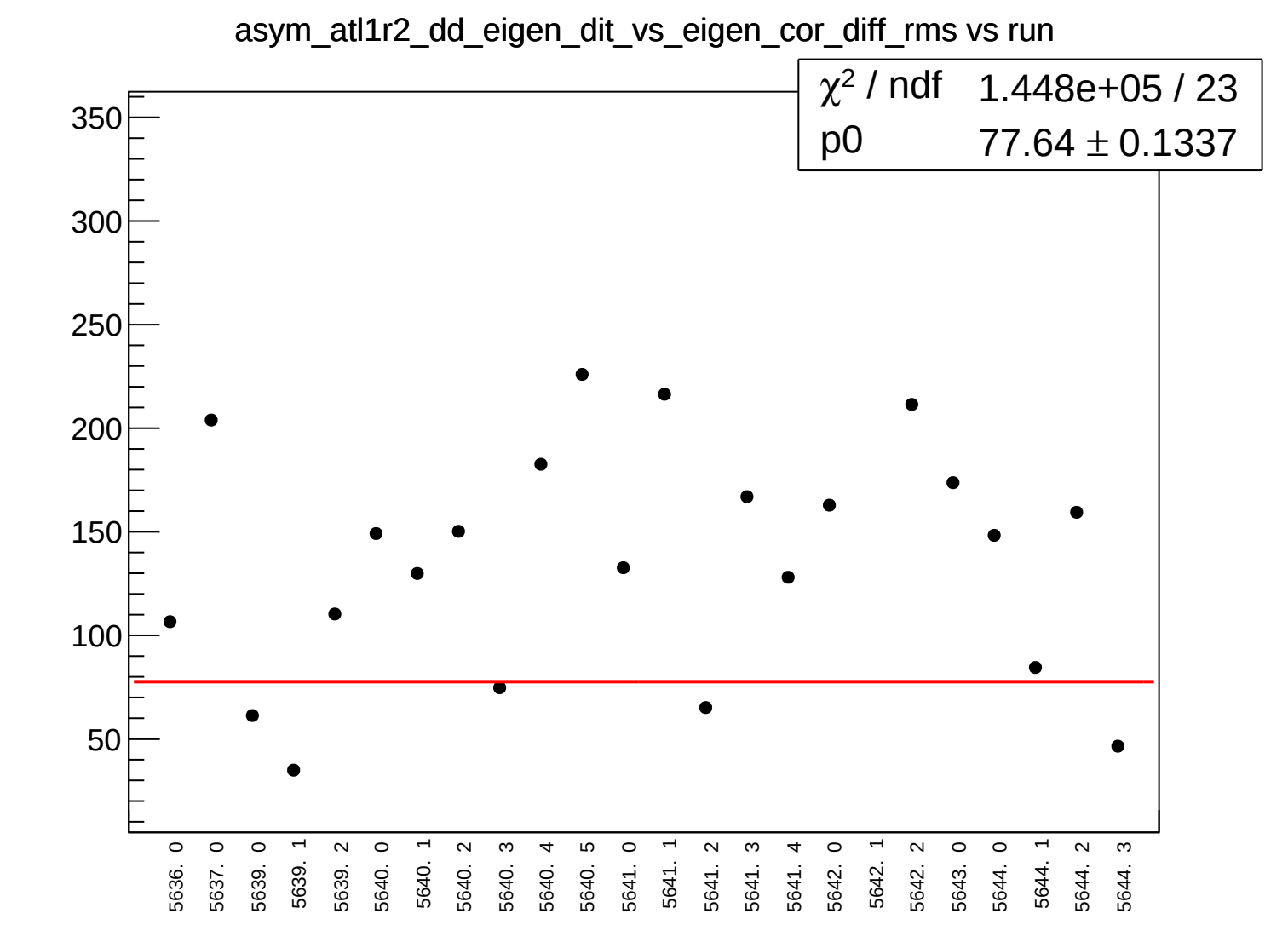

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 24.06 / 23
p0 −8.429e−06 ± 1.847e−05
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −66.49
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.03183
Std Dev 1.001
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

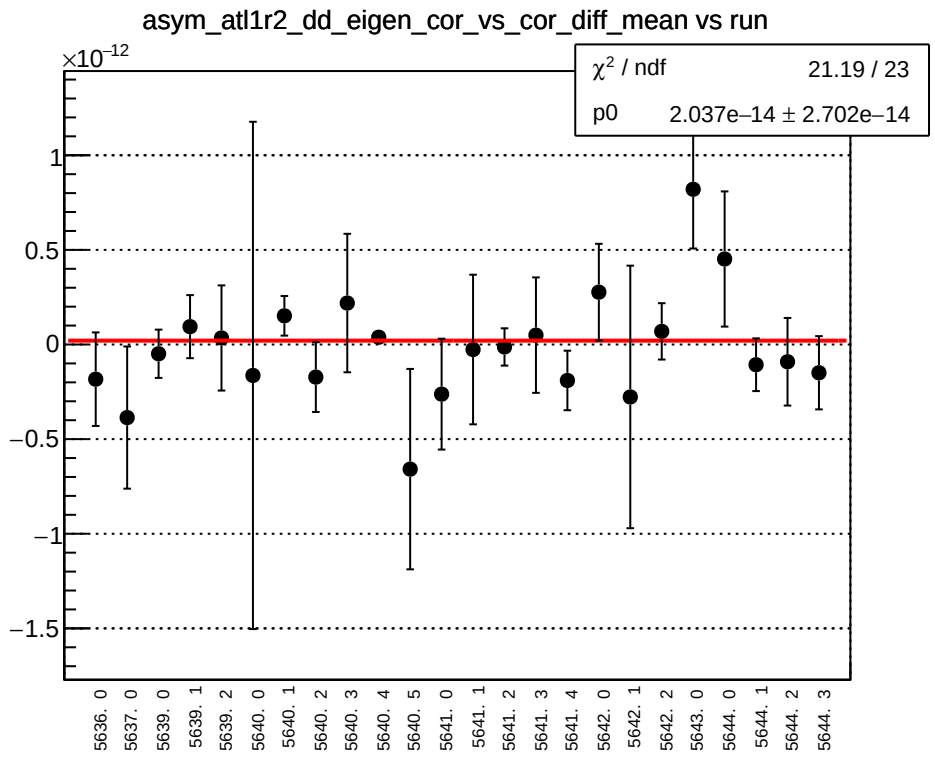

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1655 / 23
p0 0.009055 ± 1.306e−05
0.0105
0.01
0.0095
0.009
0.0085
0.008
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

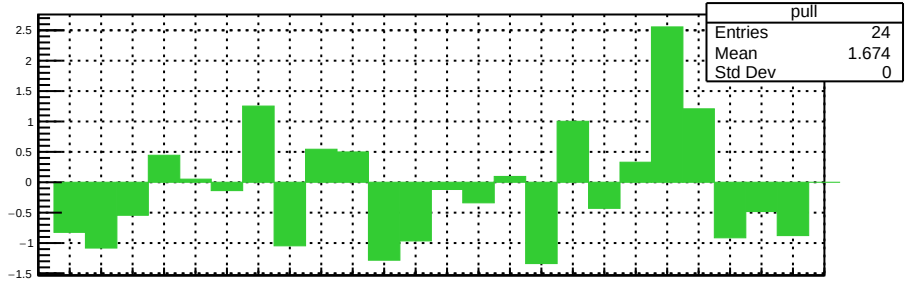

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 19.34 / 23
p0 0.1835 ± 0.189
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −0.8095
Std Dev 0
pull1D
Entries 24
Mean −0.1339
Std Dev 0.8875

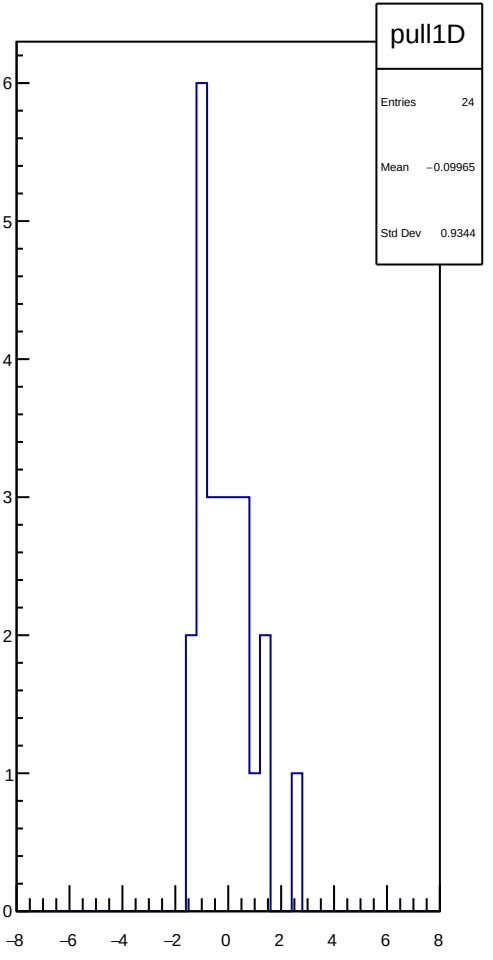

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.448e+05 / 23
p0 77.64 ± 0.1337
350
300
250
200
150
100
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

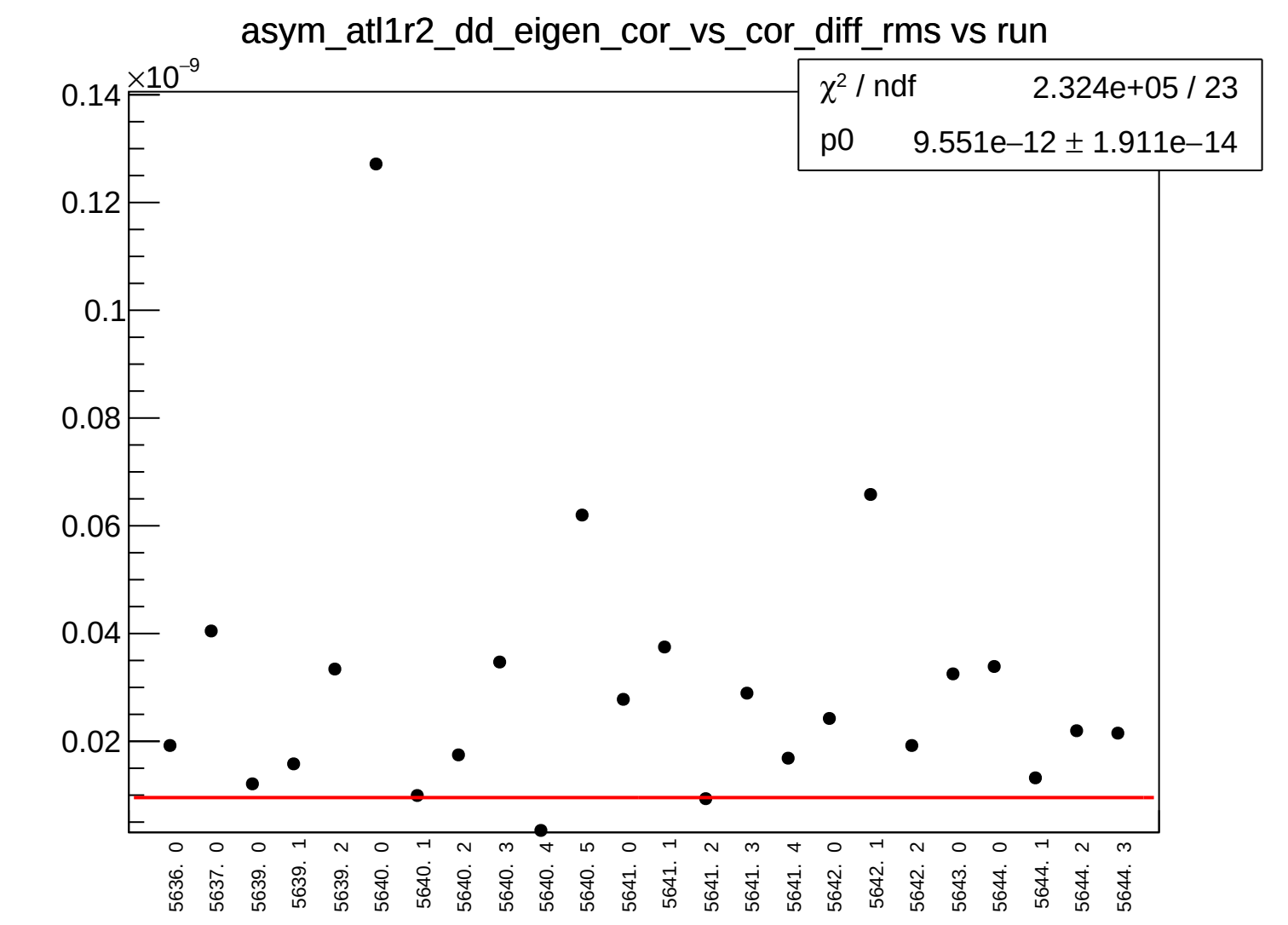

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 19.34 / 23
p0 0.1835 ± 0.189
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −0.8095
Std Dev 0
pull1D
Entries 24
Mean −0.1339
Std Dev 0.8875

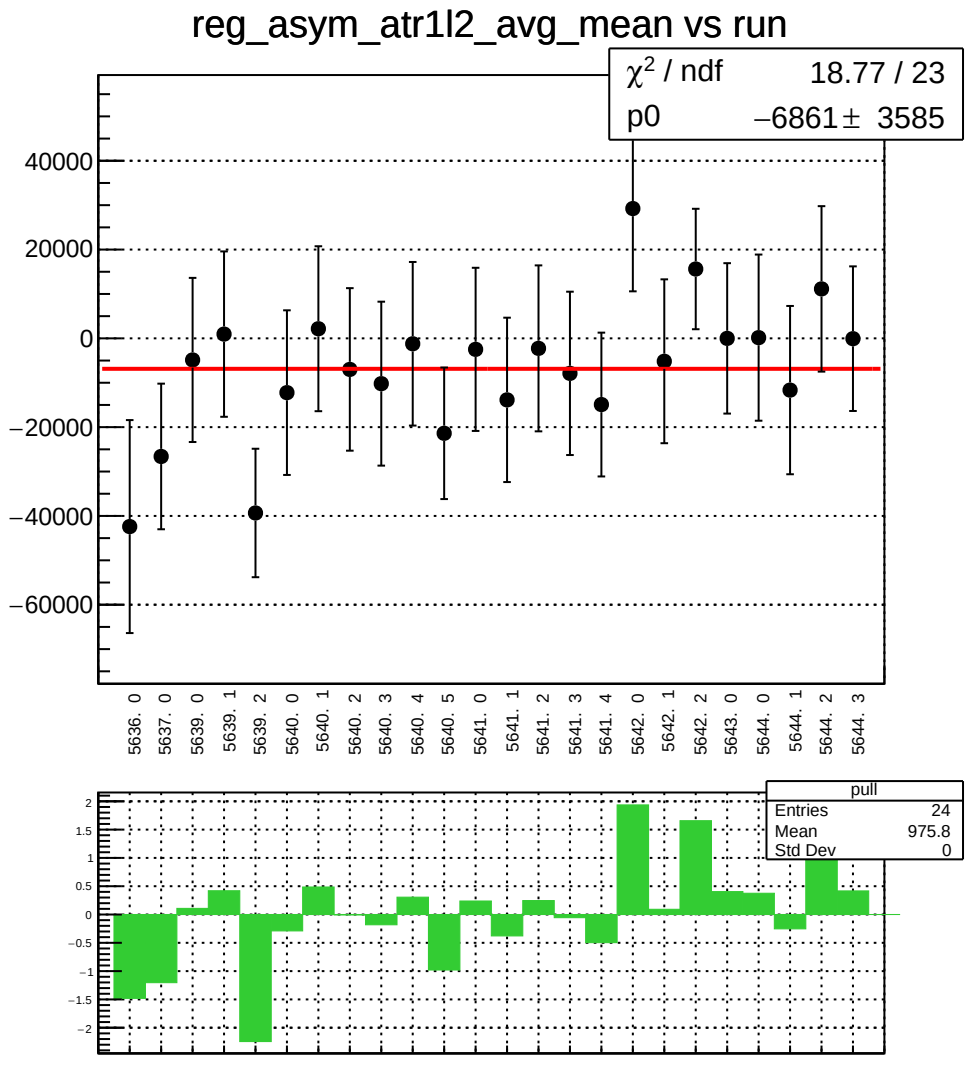

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.448e+05 / 23
p0 77.64 ± 0.1337
350
300
250
200
150
100
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

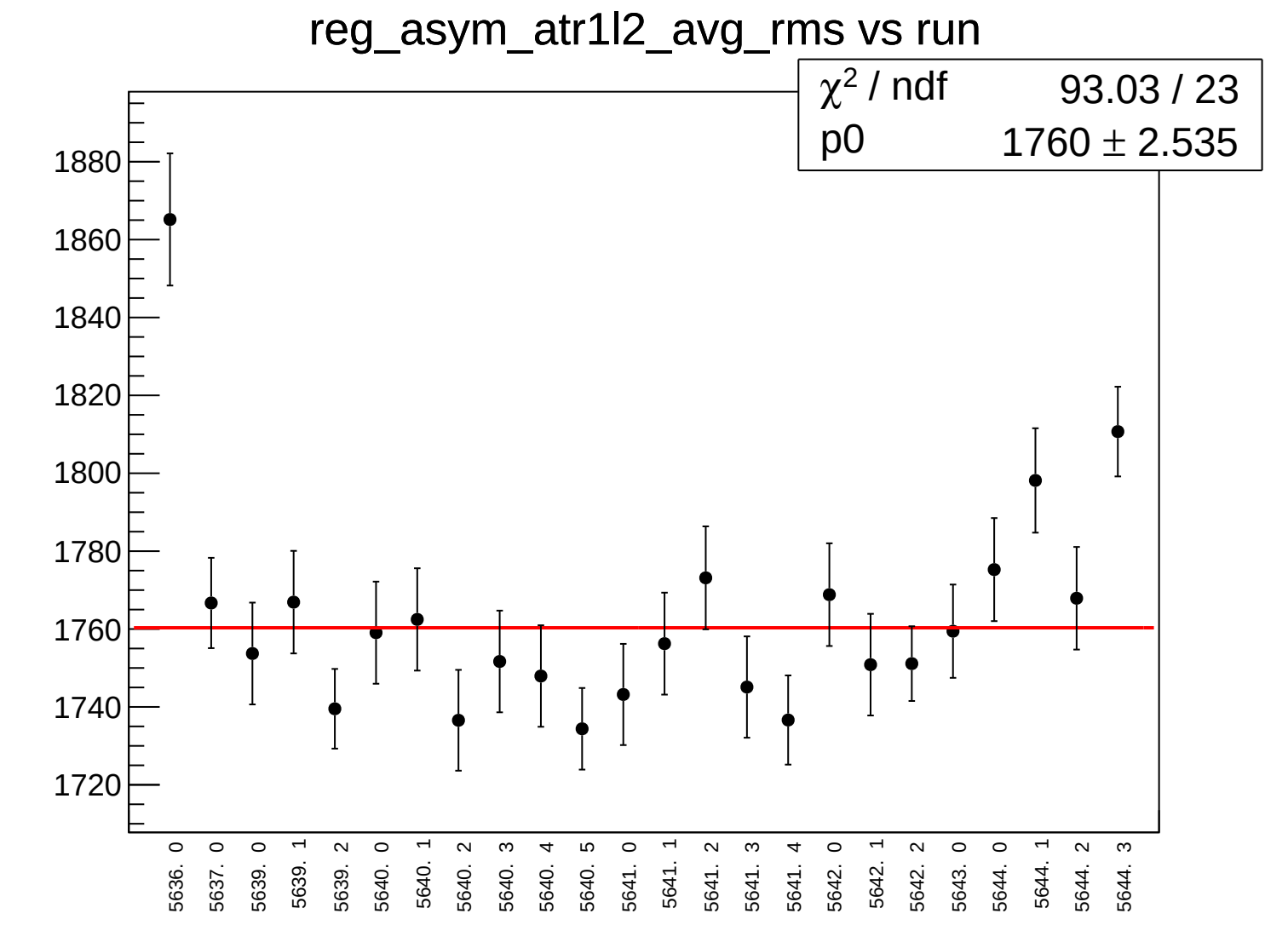

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 21.19 / 23
p0 2.037e−14 ± 2.702e−14
1
0.5
0
−0.5
−1
−1.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

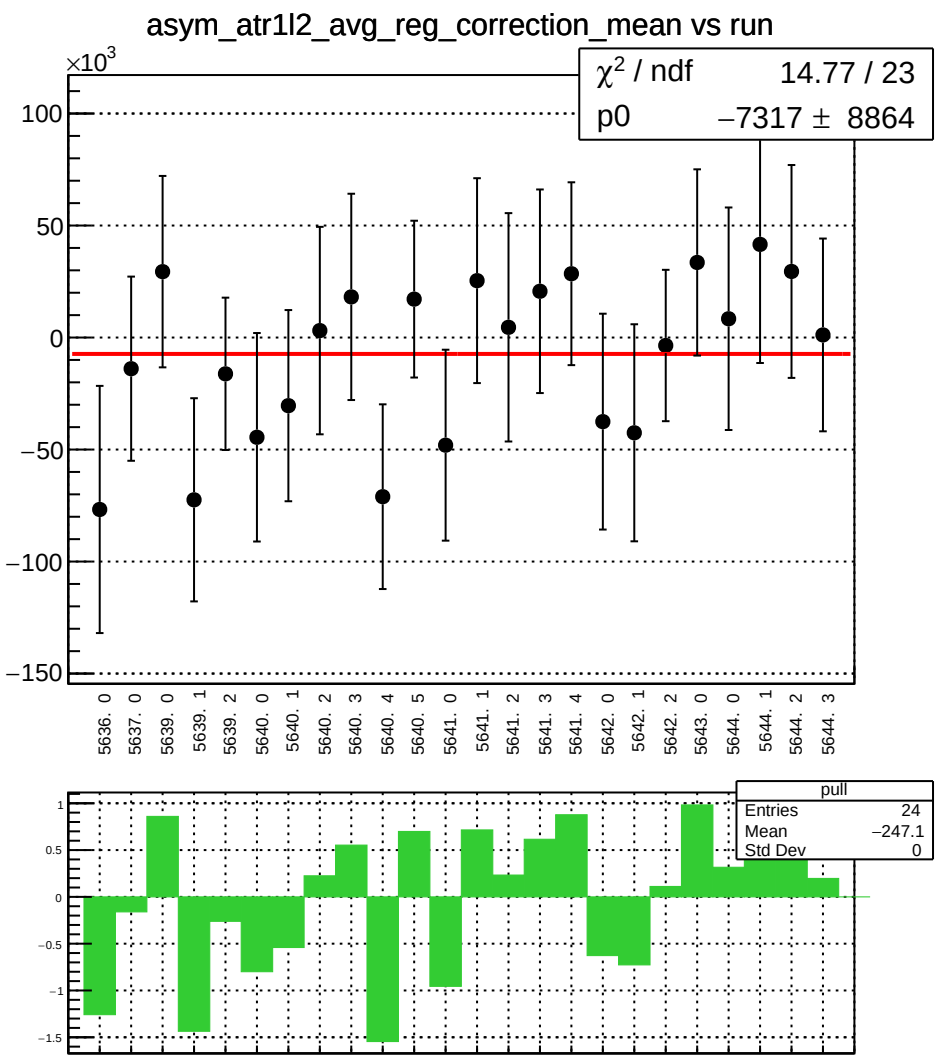

pull
Entries 24
Mean 1.674
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

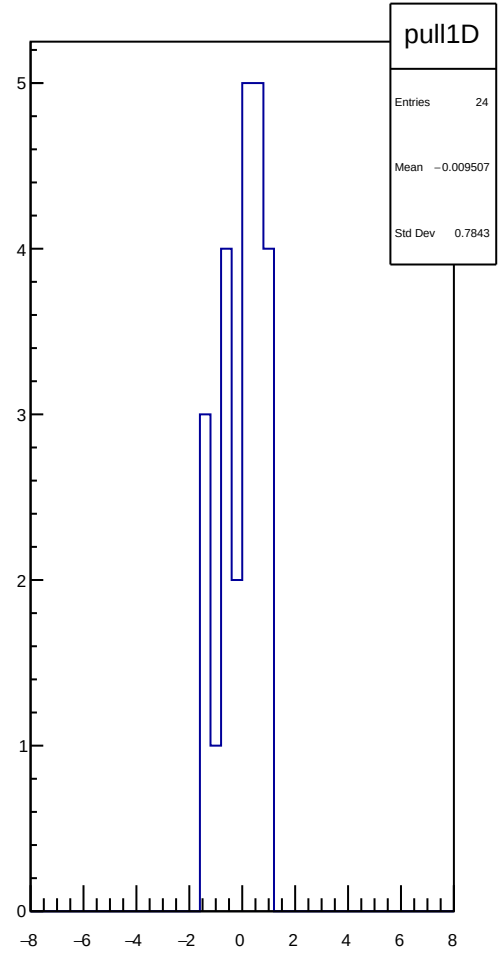

pull1D
Entries 24
Mean −0.09965
Std Dev 0.9344
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

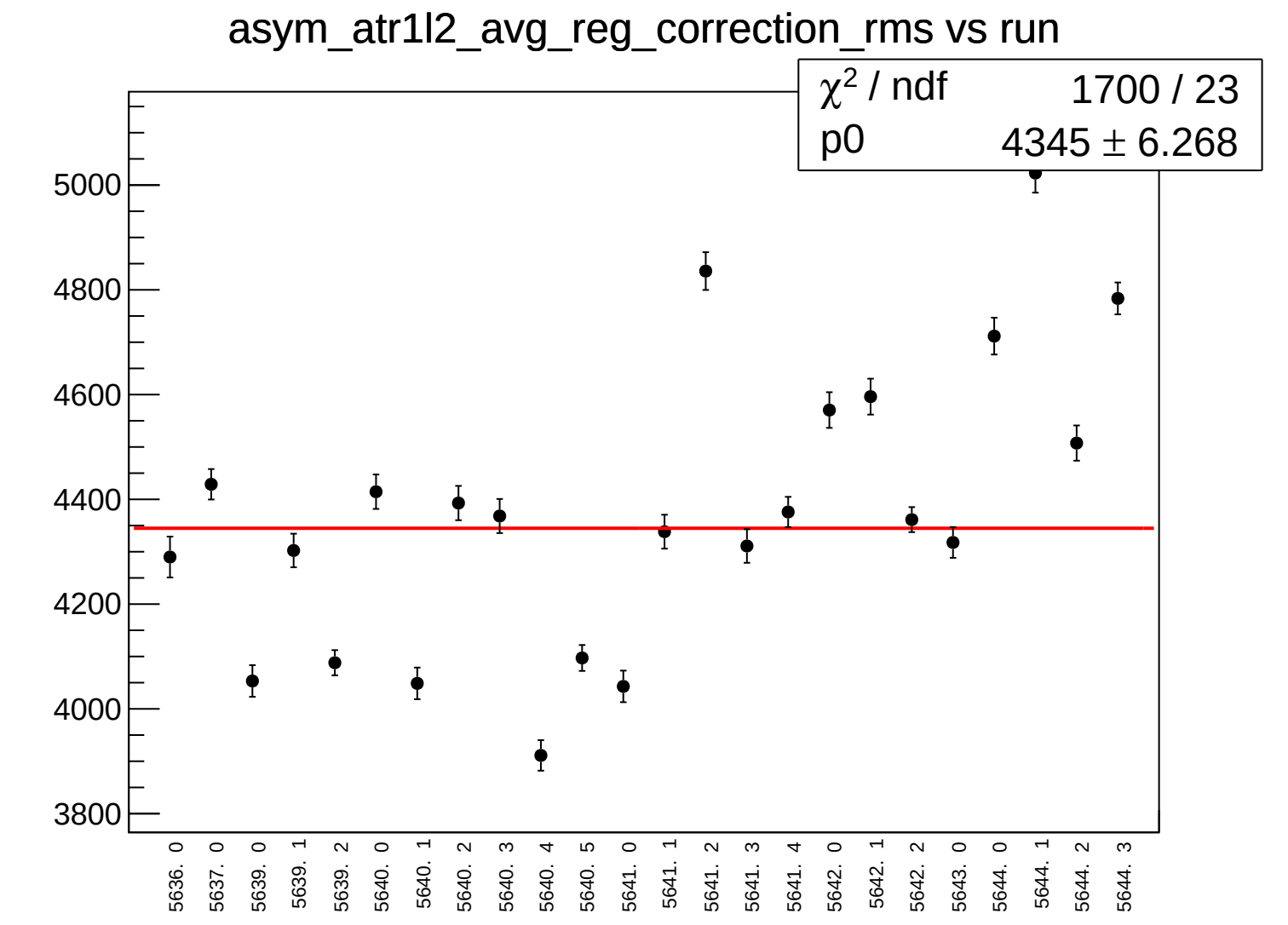

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.324e+05 / 23
p0 9.551e−12 ± 1.911e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

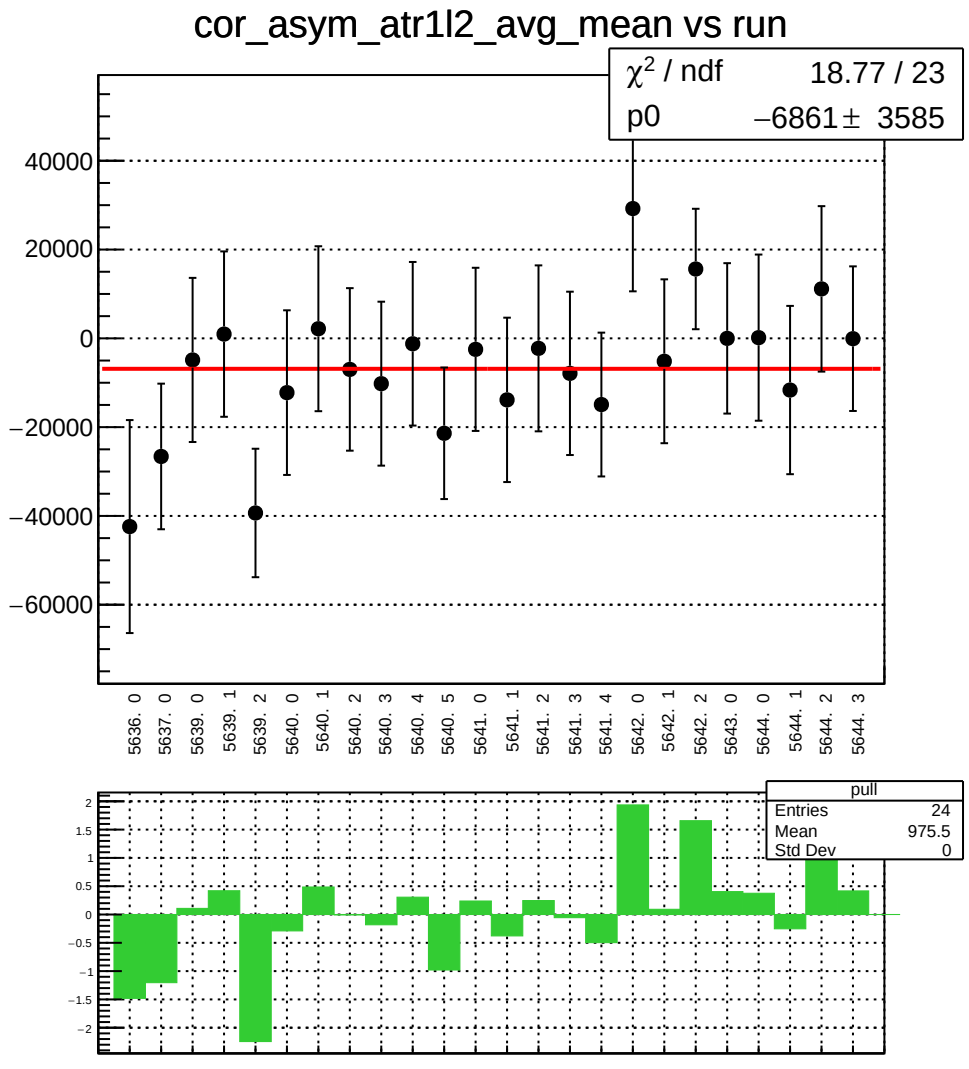

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 18.77 / 23
p0 −6861 ± 3585
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 975.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.003434
Std Dev 0.8843
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

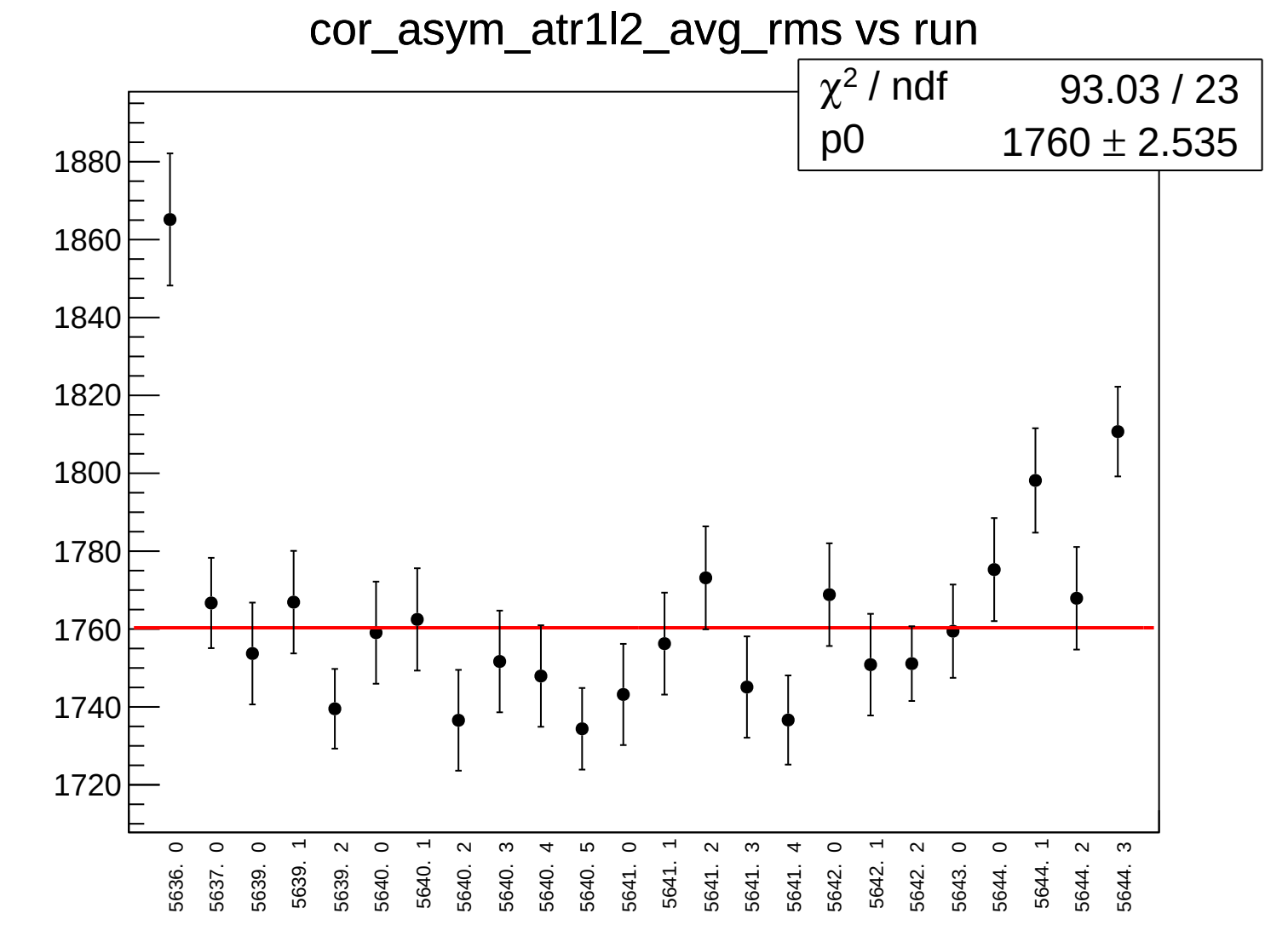

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 93.03 / 23
p0 1760 ± 2.535
1880
1860
1840
1820
1800
1780
1760
1740
1720
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

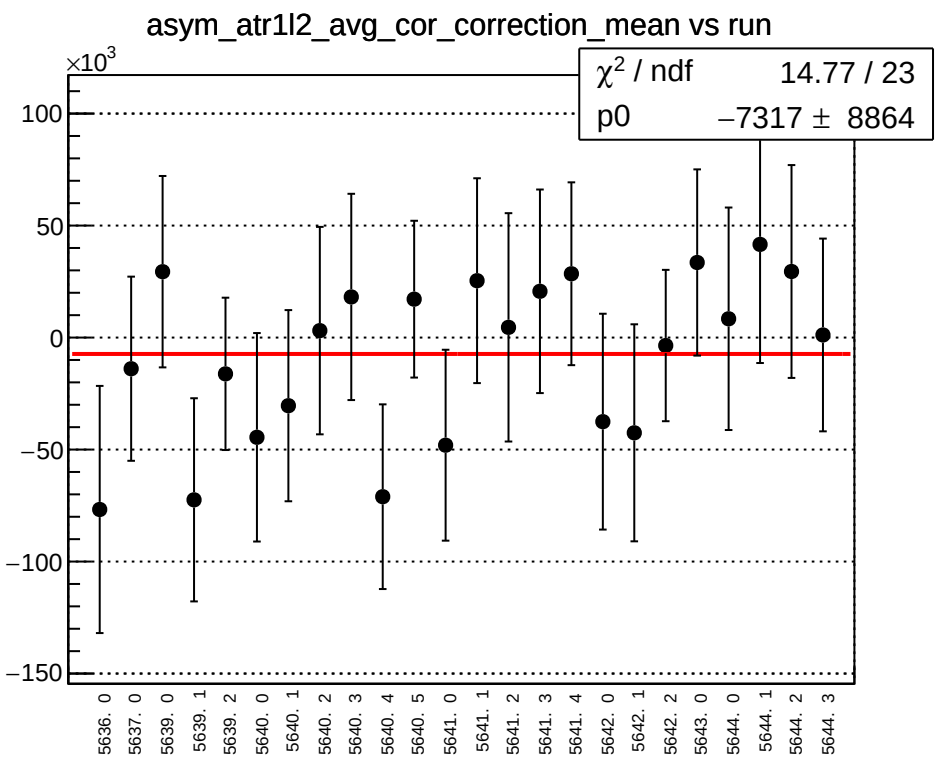

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 14.77 / 23
p0 −7317 ± 8864
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −247.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

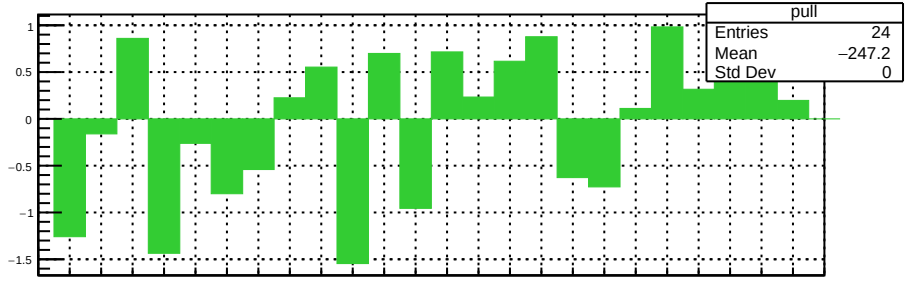

pull1D
Entries 24
Mean −0.009507
Std Dev 0.7843
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

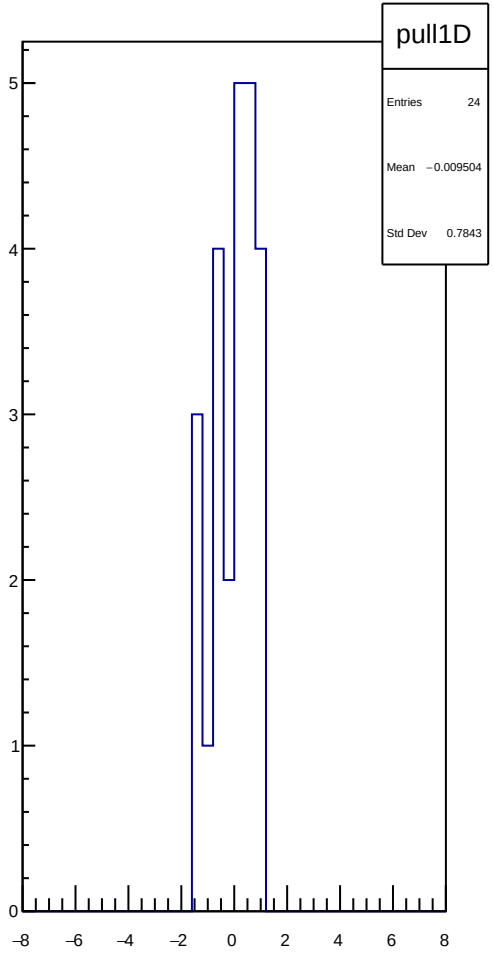

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 1700 / 23
p0 4345 ± 6.268
5000
4800
4600
4400
4200
4000
3800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

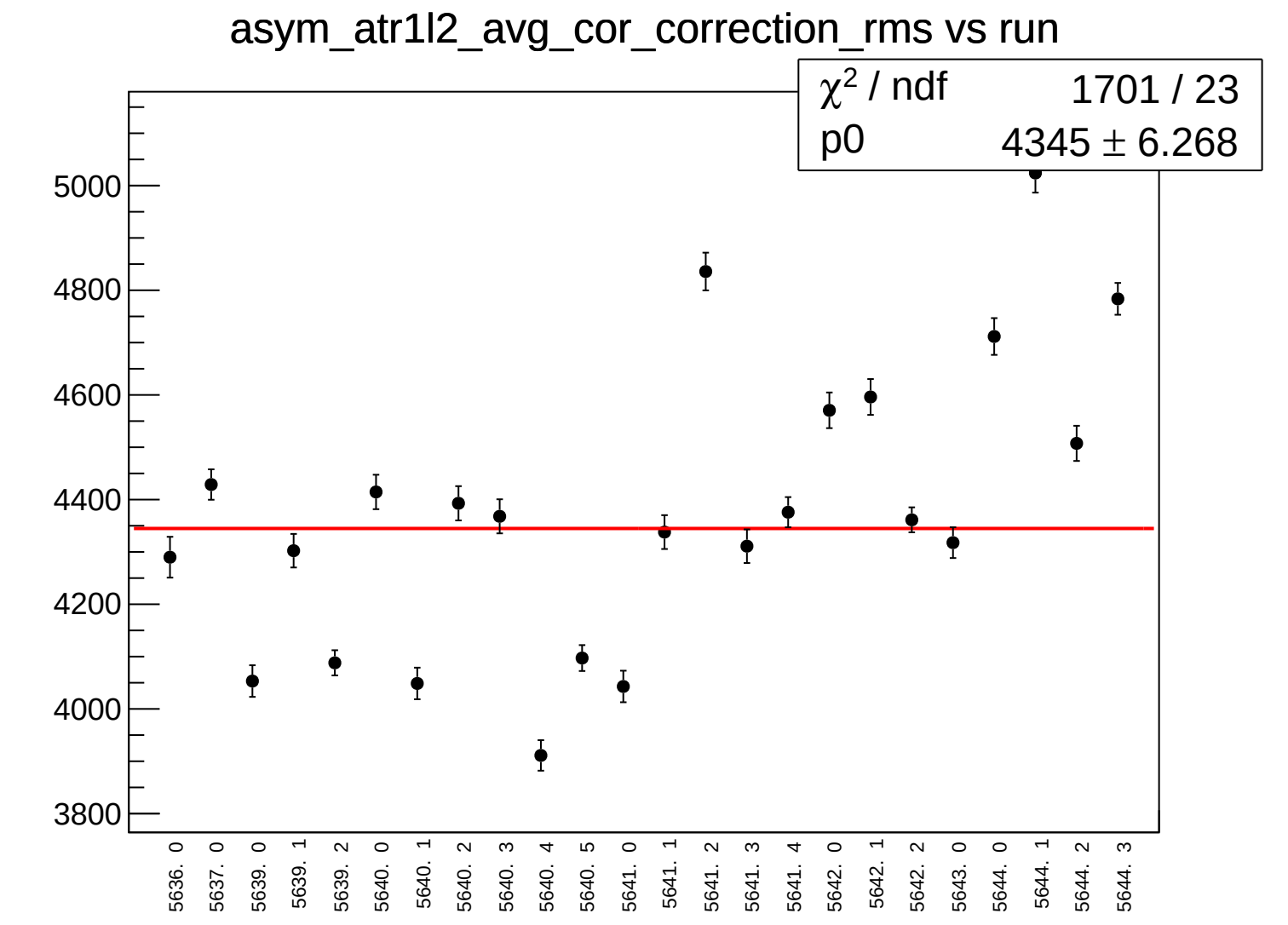

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 18.77 / 23
p0 −6861 ± 3585
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 975.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.003435
Std Dev 0.8842
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

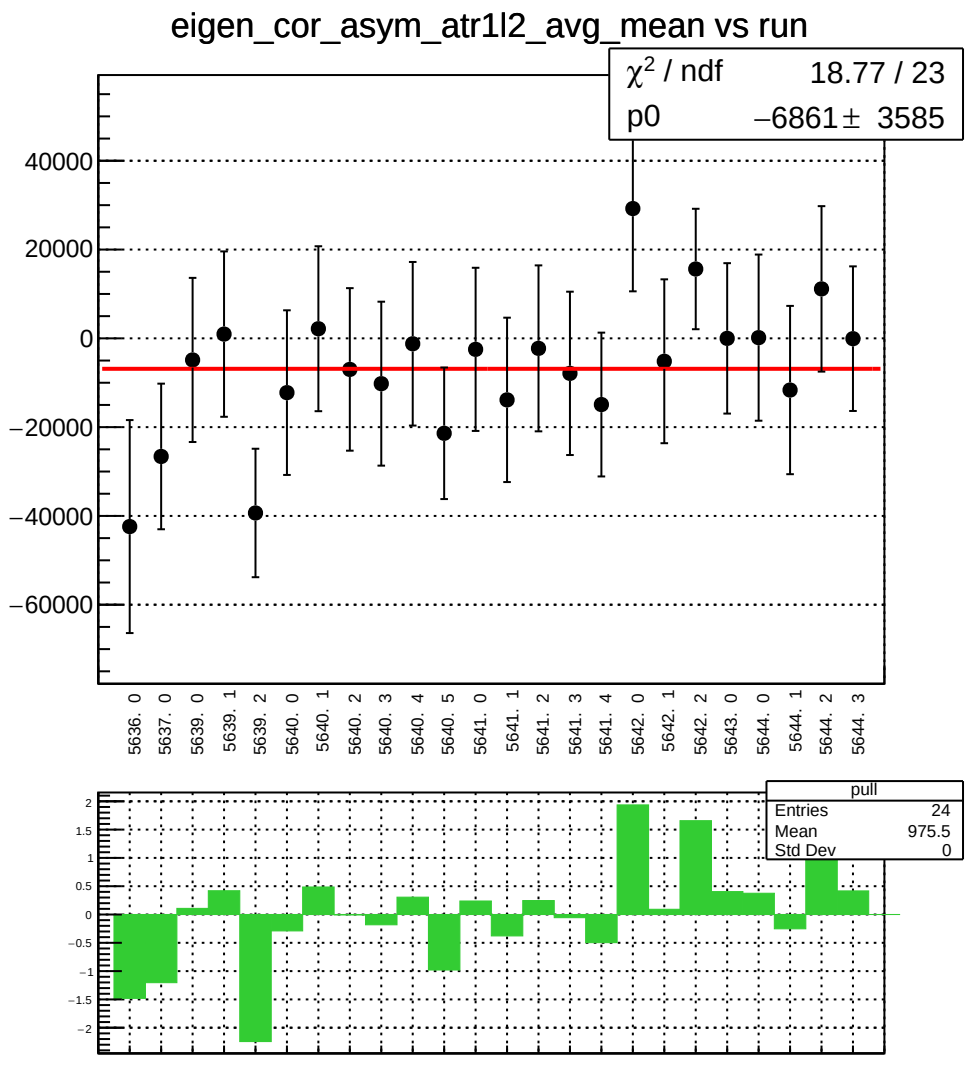

cor_asym_atr1l2_avg_rms vs run
χ² / ndf 93.03 / 23
p0 1760 ± 2.535
1880
1860
1840
1820
1800
1780
1760
1740
1720
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

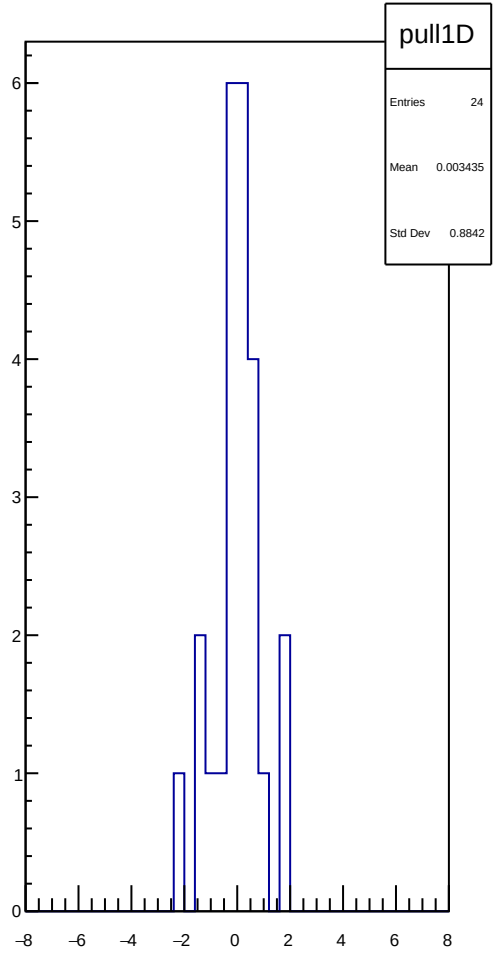

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 14.77 / 23
p0 −7317 ± 8864
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

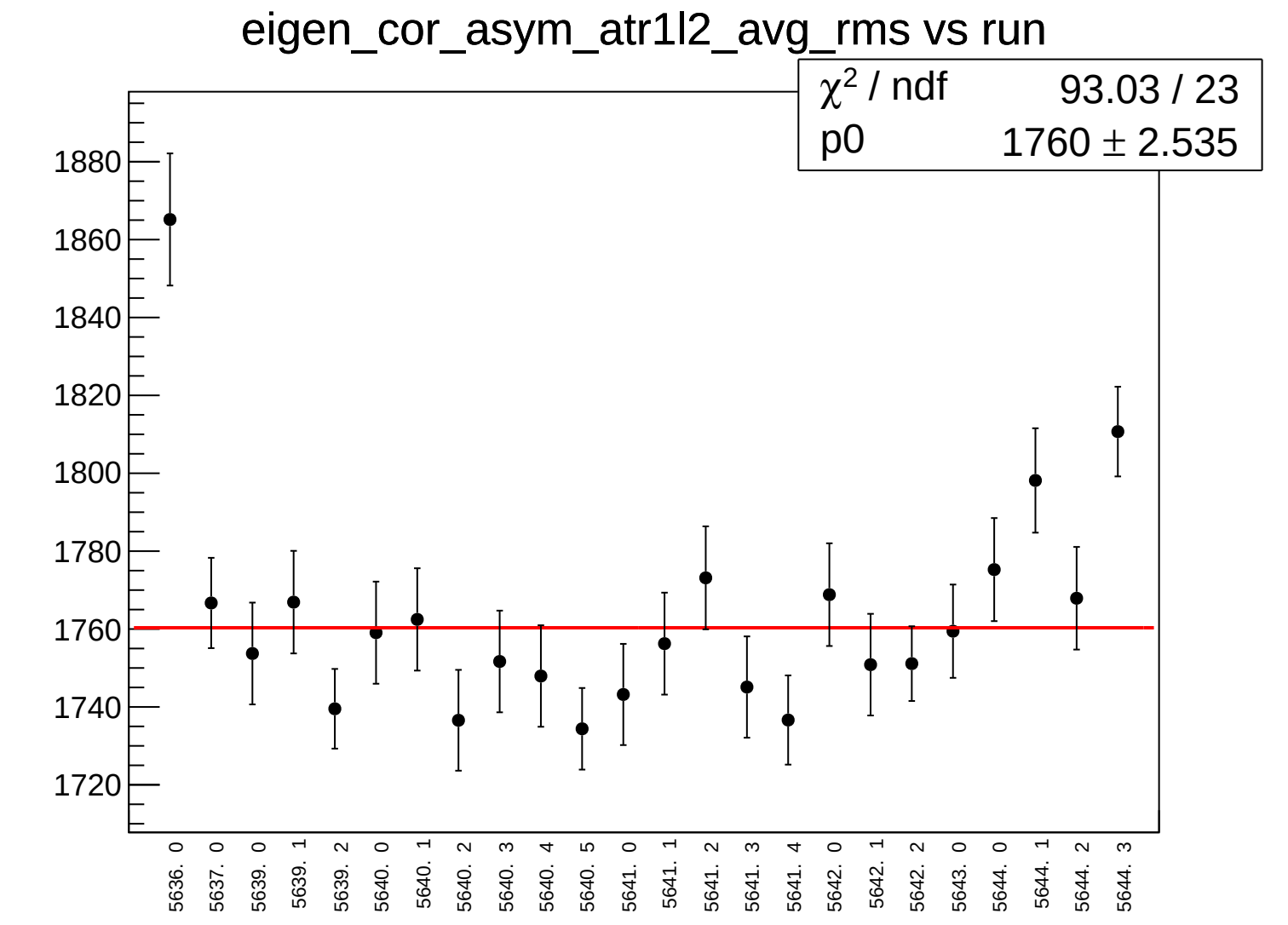

pull
Entries 24
Mean −247.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

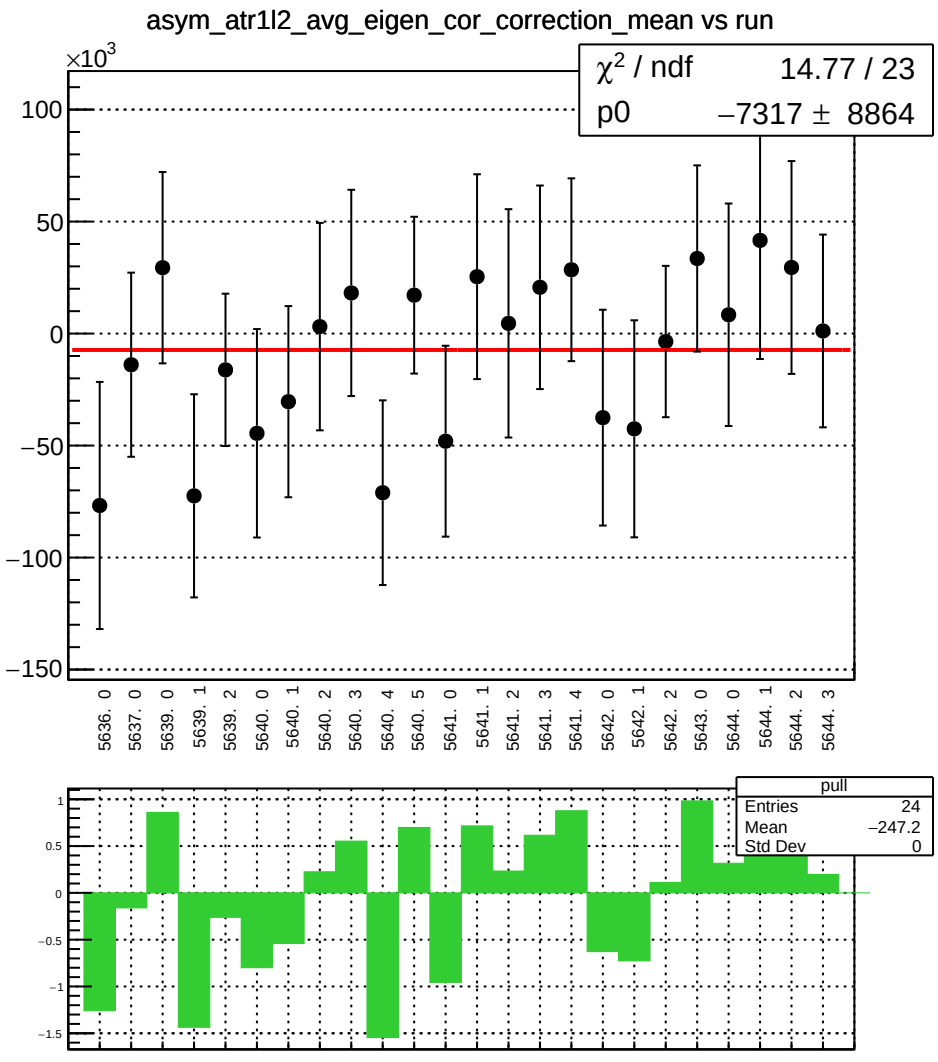

pull1D
Entries 24
Mean −0.009504
Std Dev 0.7843
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

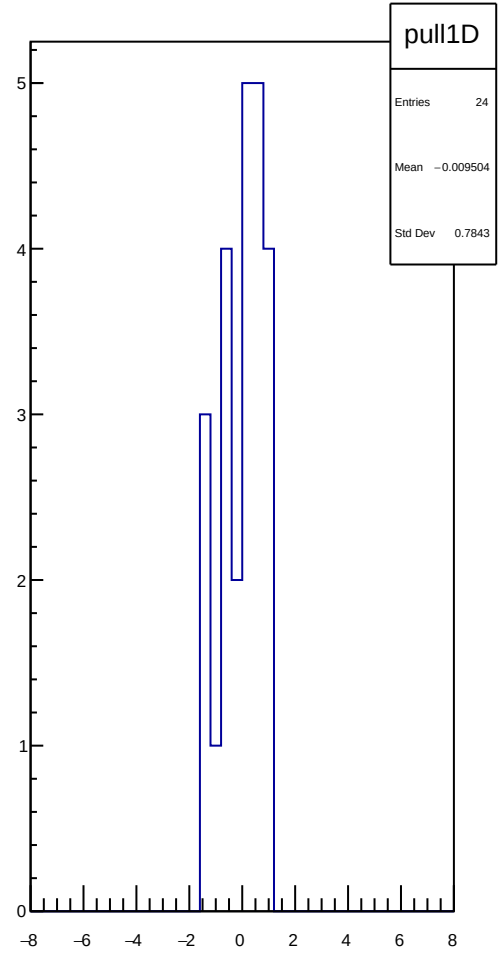

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 1701 / 23
p0 4345 ± 6.268
5000
4800
4600
4400
4200
4000
3800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

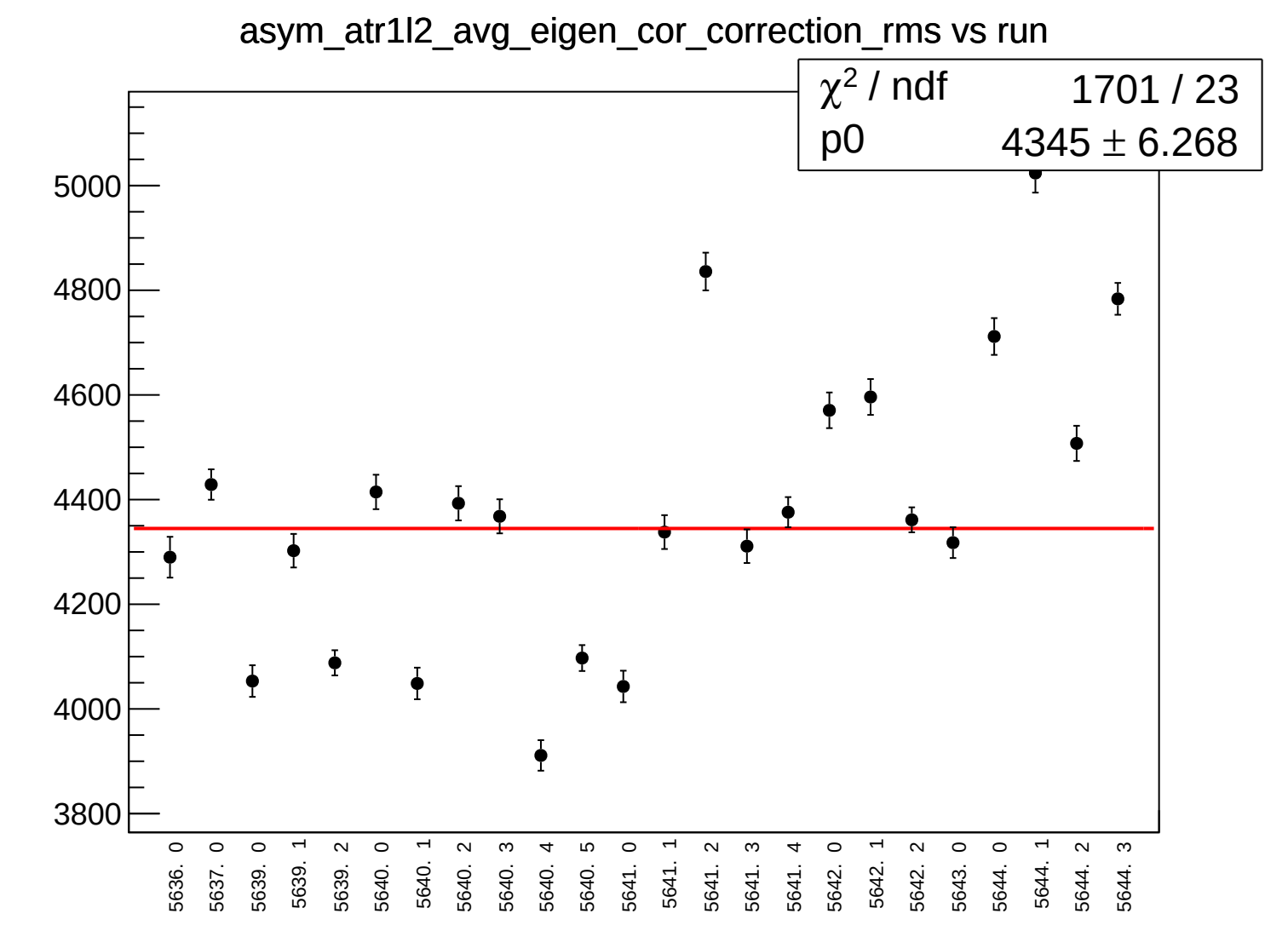

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 18.77 / 23
p0 −6861 ± 3585
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 975.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

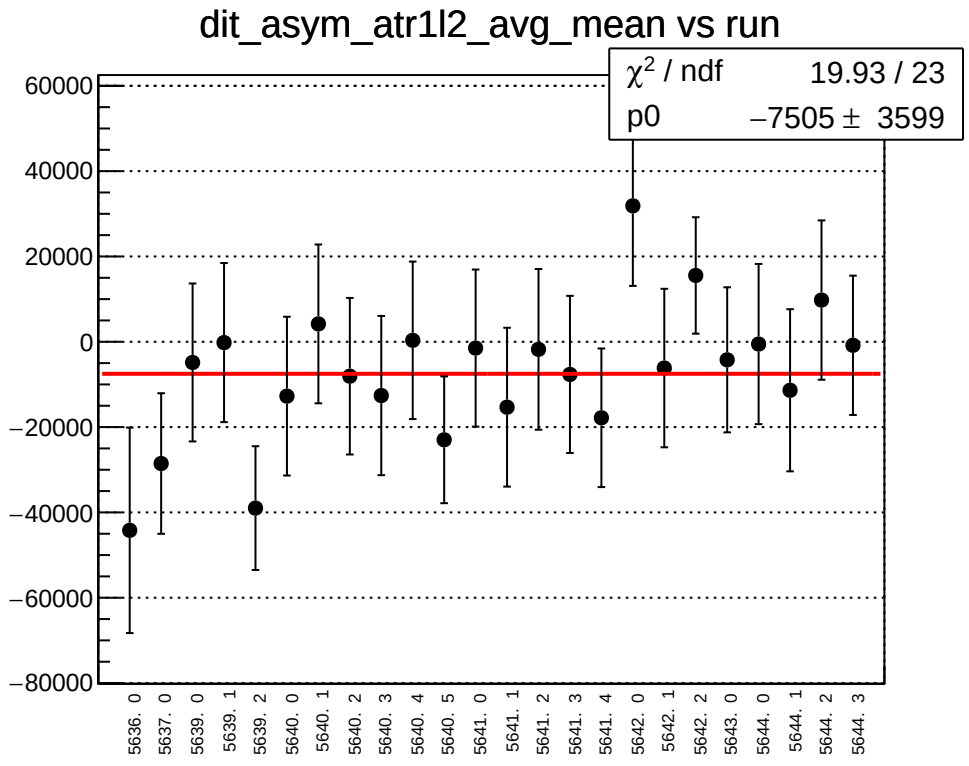

pull1D
Entries 24
Mean 0.003435
Std Dev 0.8842
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

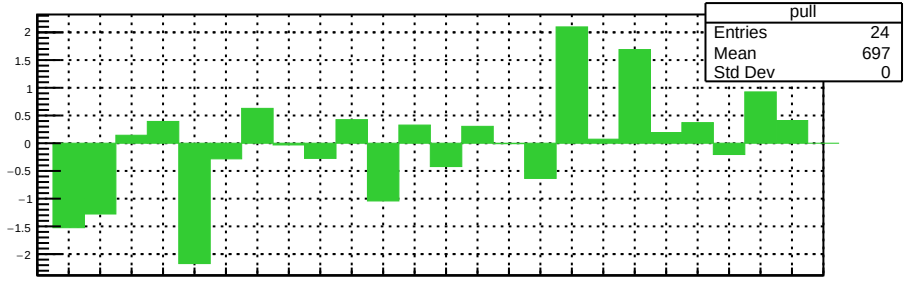

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 93.03 / 23
p0 1760 ± 2.535
1880
1860
1840
1820
1800
1780
1760
1740
1720
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

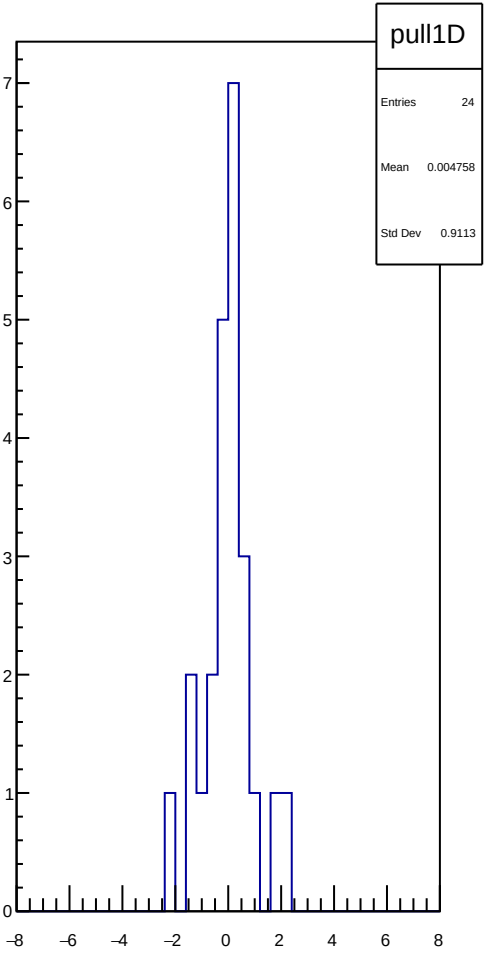

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 14.77 / 23
p0 −7317 ± 8864
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −247.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

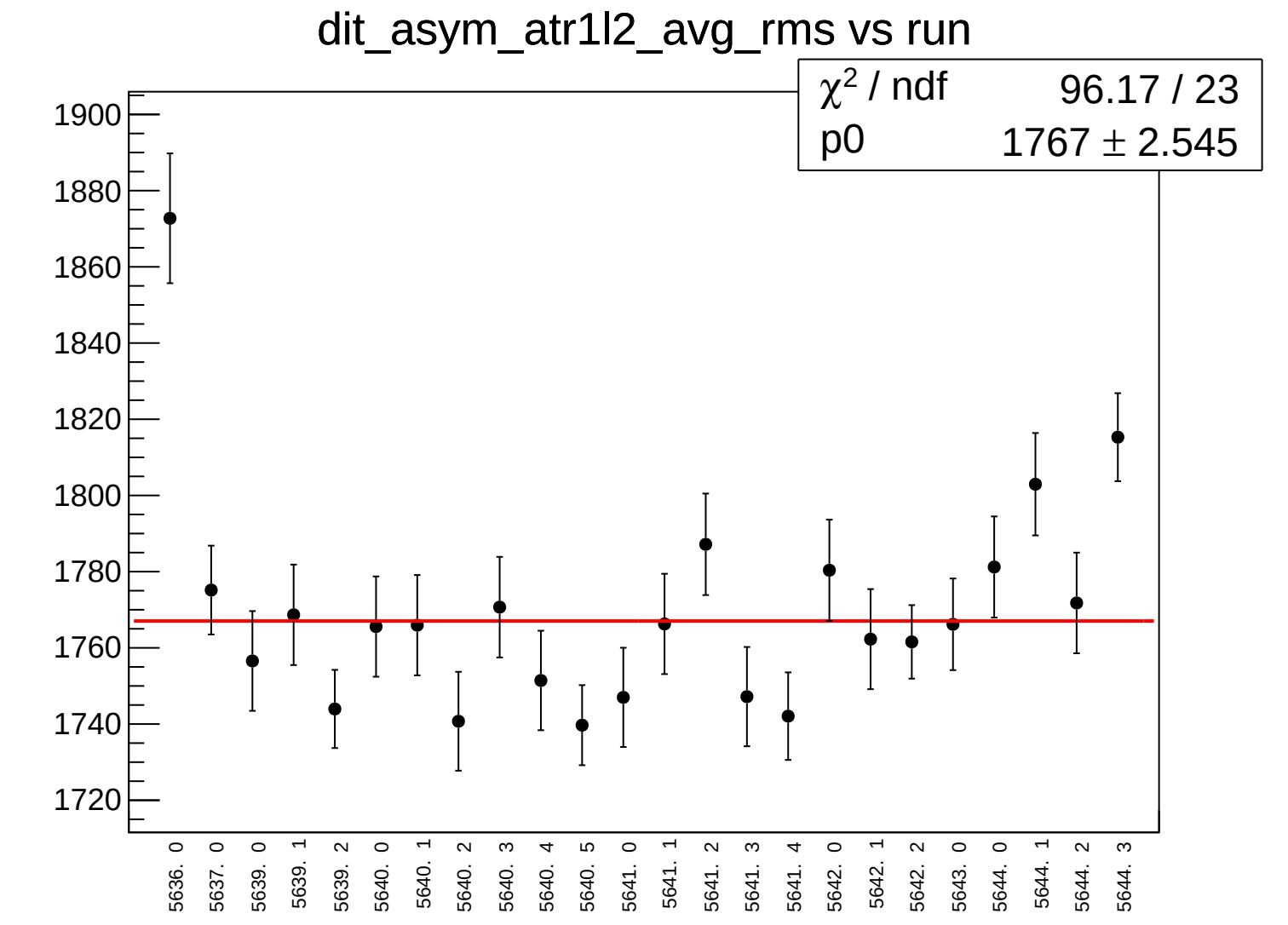

pull1D
Entries 24
Mean −0.009504
Std Dev 0.7843
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

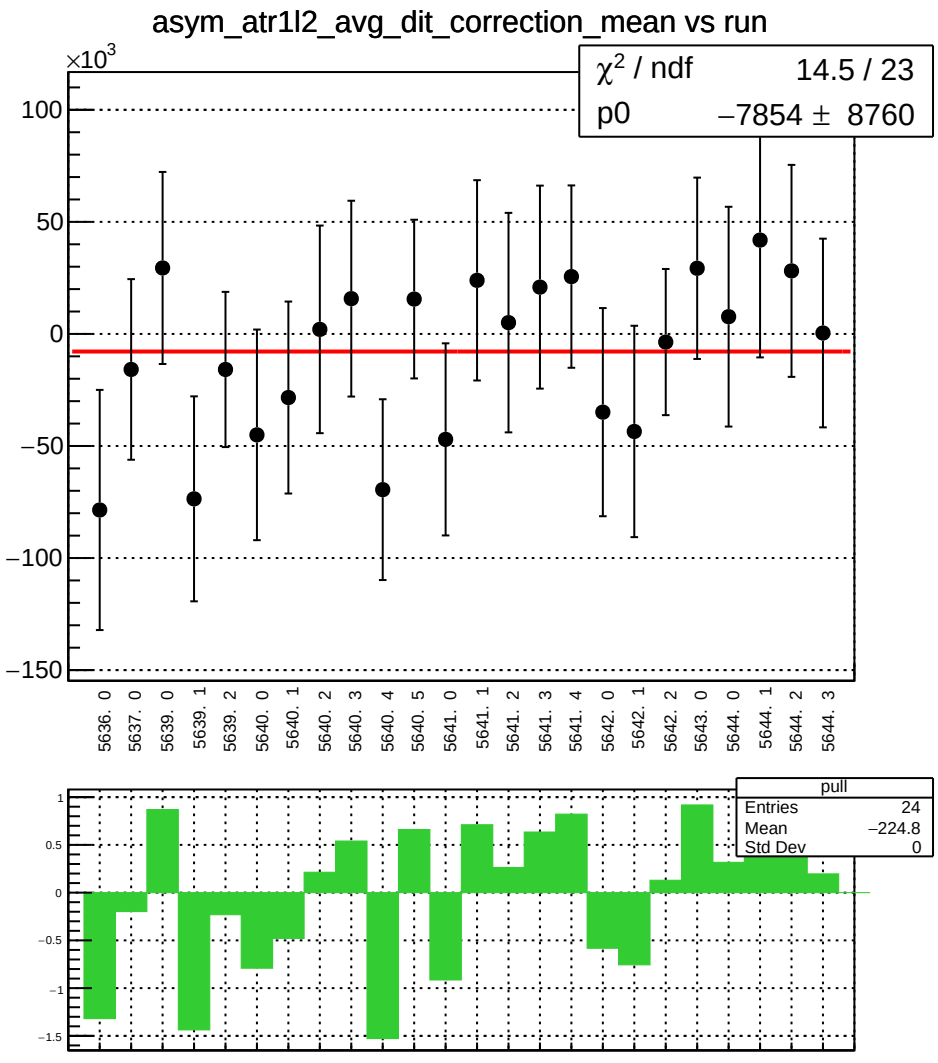

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1701 / 23
p0 4345 ± 6.268
5000
4800
4600
4400
4200
4000
3800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

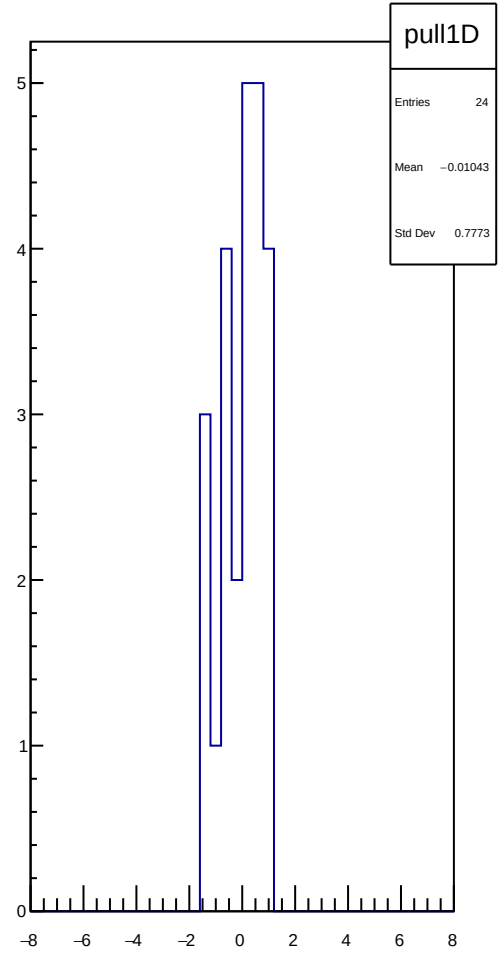

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 19.93 / 23
p0 −7505 ± 3599
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

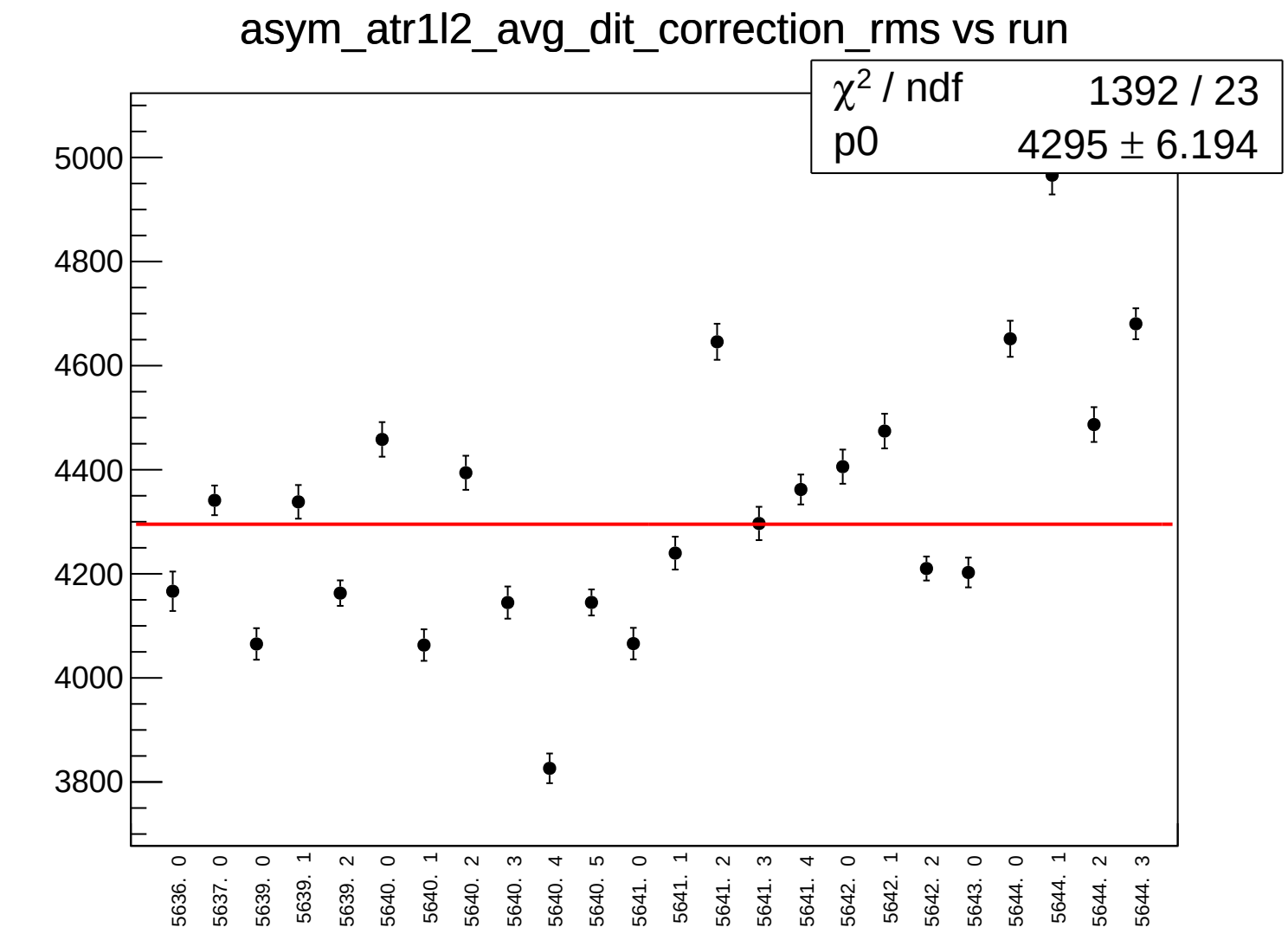

pull
Entries 24
Mean 697
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

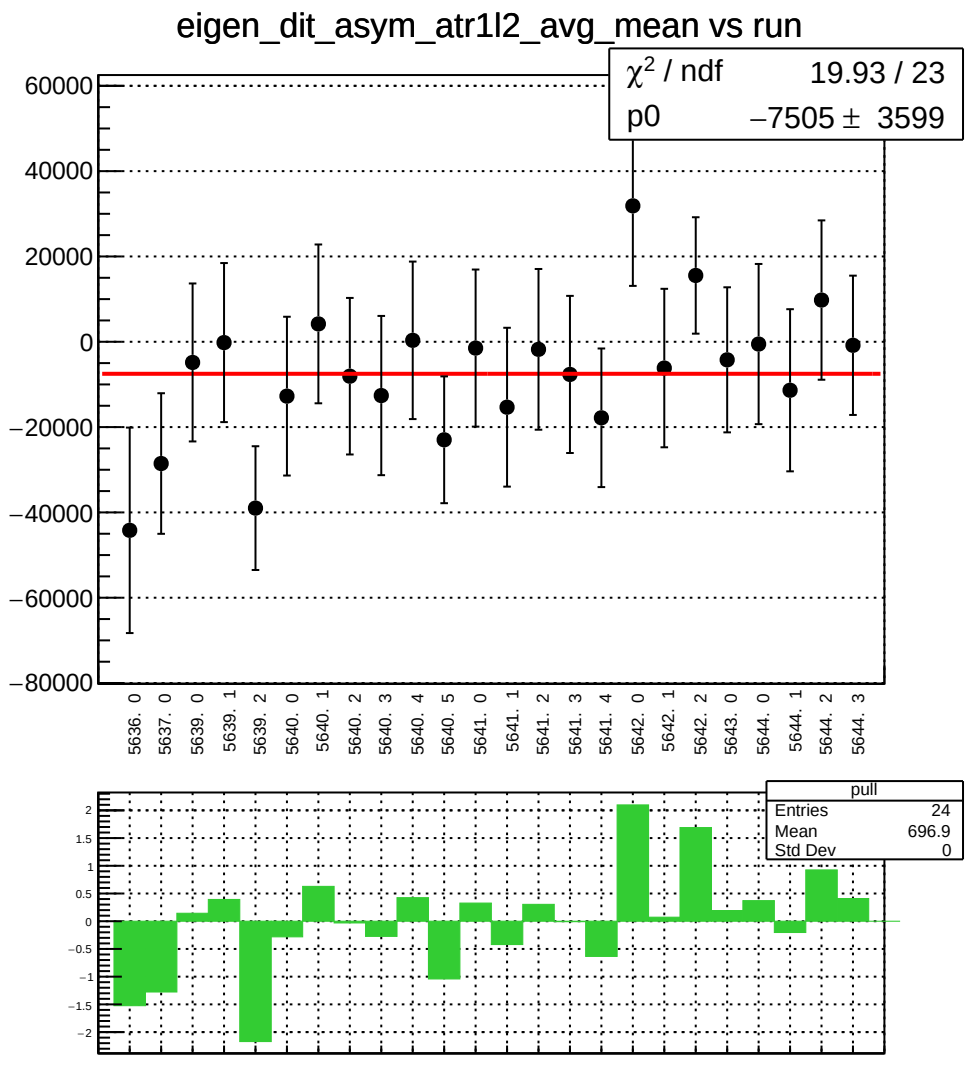

pull1D
Entries 24
Mean 0.004758
Std Dev 0.9113
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

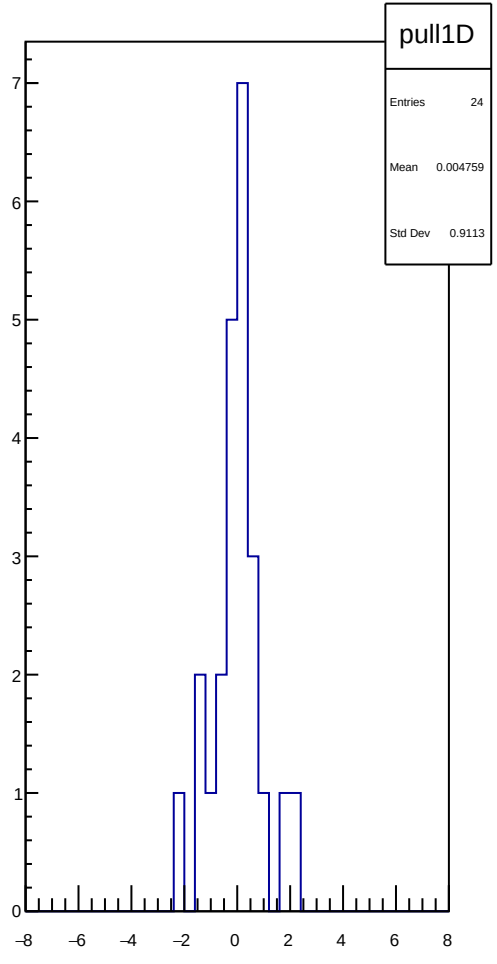

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 96.17 / 23
p0 1767 ± 2.545
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

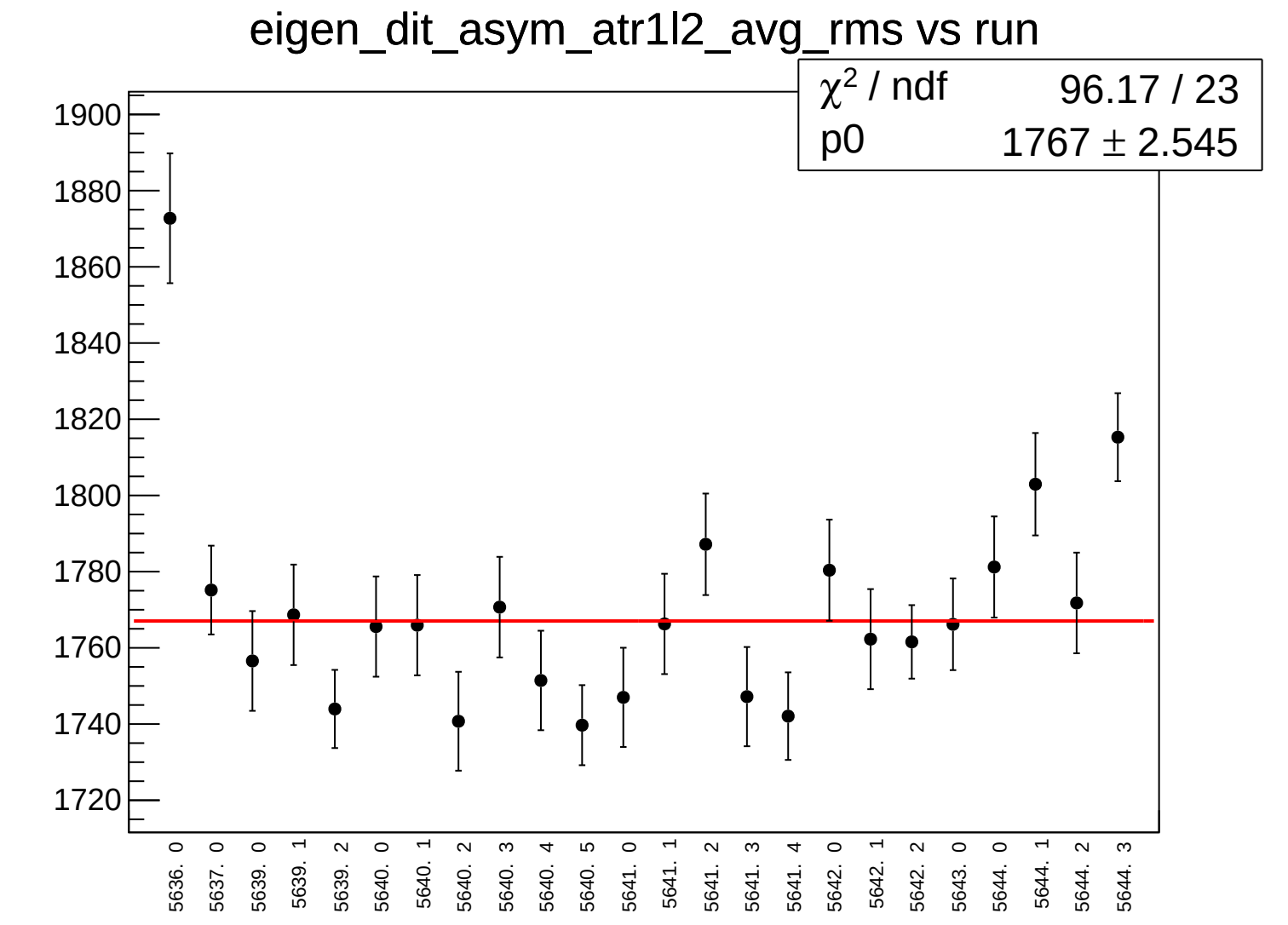

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 14.5 / 23
p0 −7854 ± 8760
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −224.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

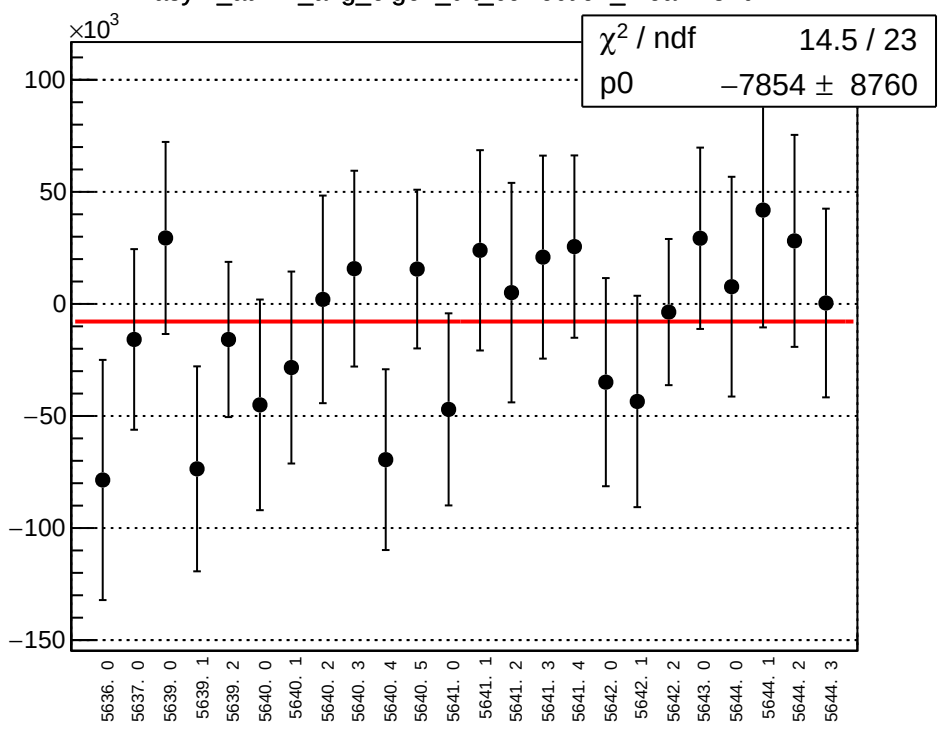

pull1D
Entries 24
Mean −0.01043
Std Dev 0.7773
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

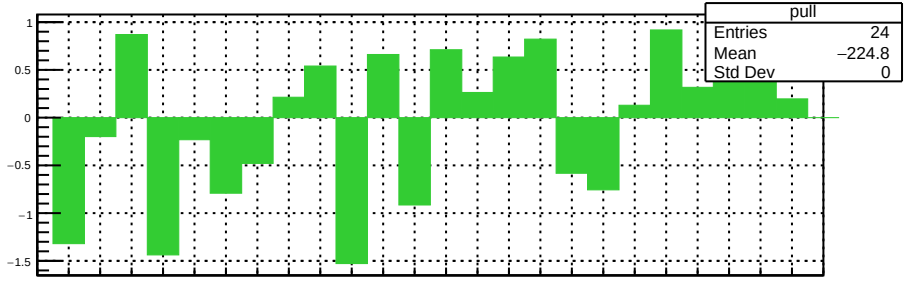

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 1392 / 23
p0 4295 ± 6.194
5000
4800
4600
4400
4200
4000
3800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

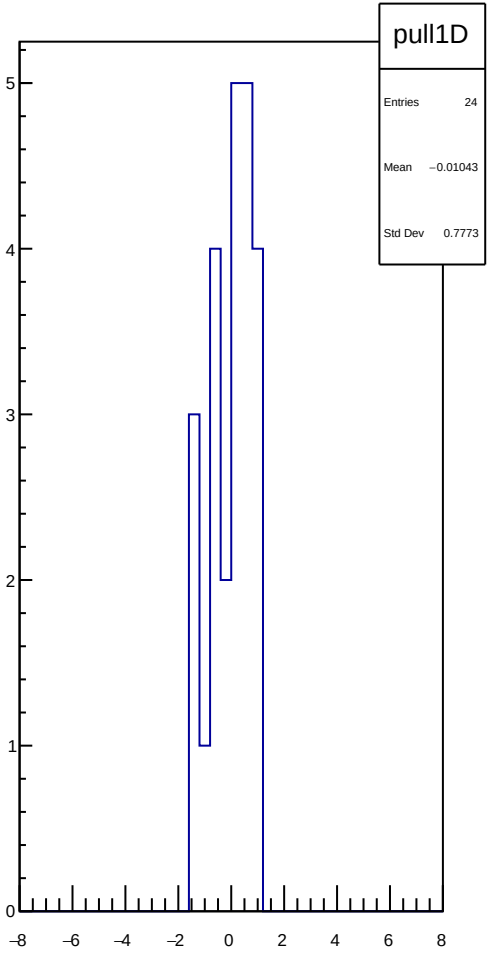

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 19.93 / 23
p0 −7505 ± 3599
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 696.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

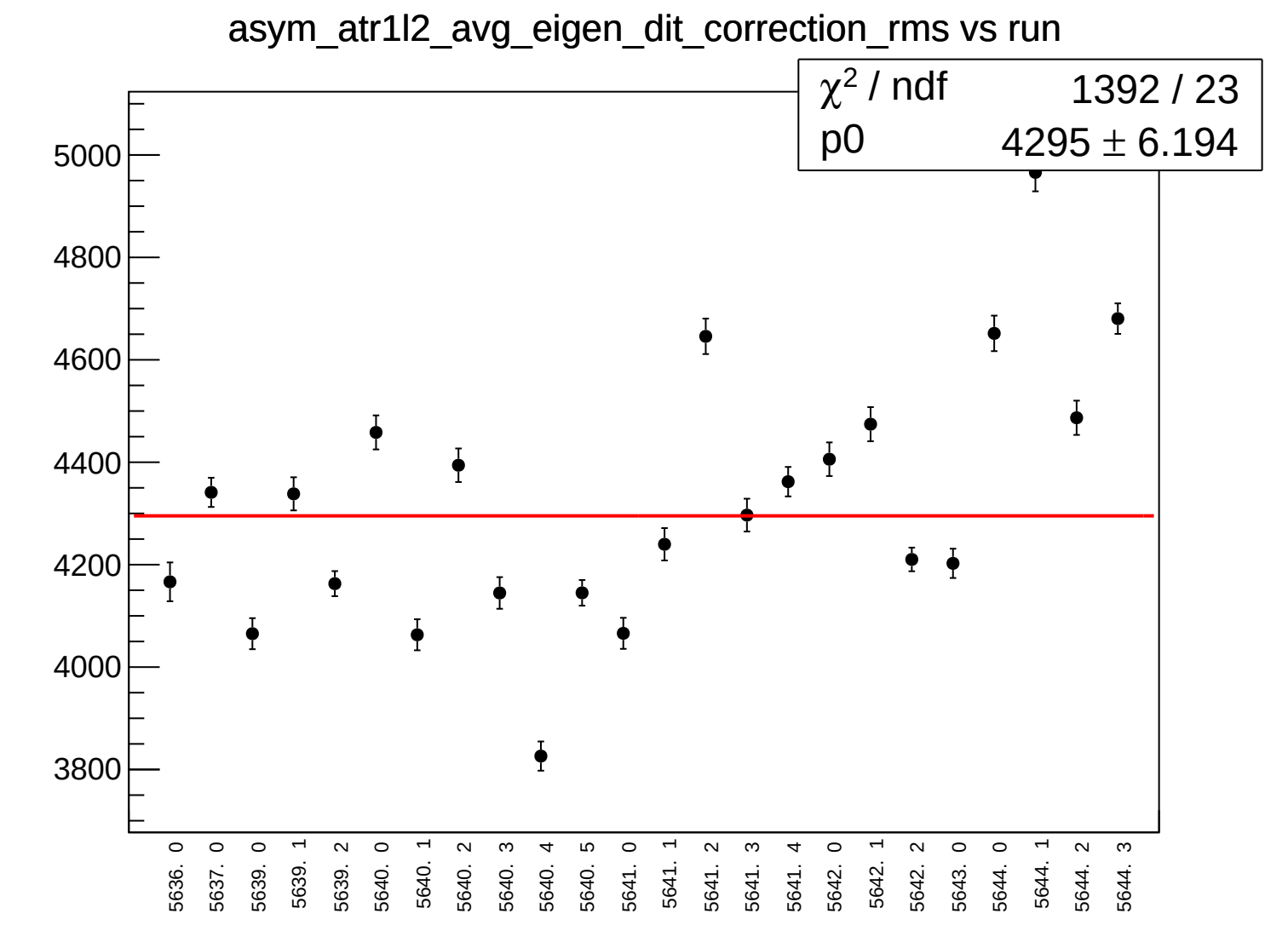

pull1D
Entries 24
Mean 0.004759
Std Dev 0.9113
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

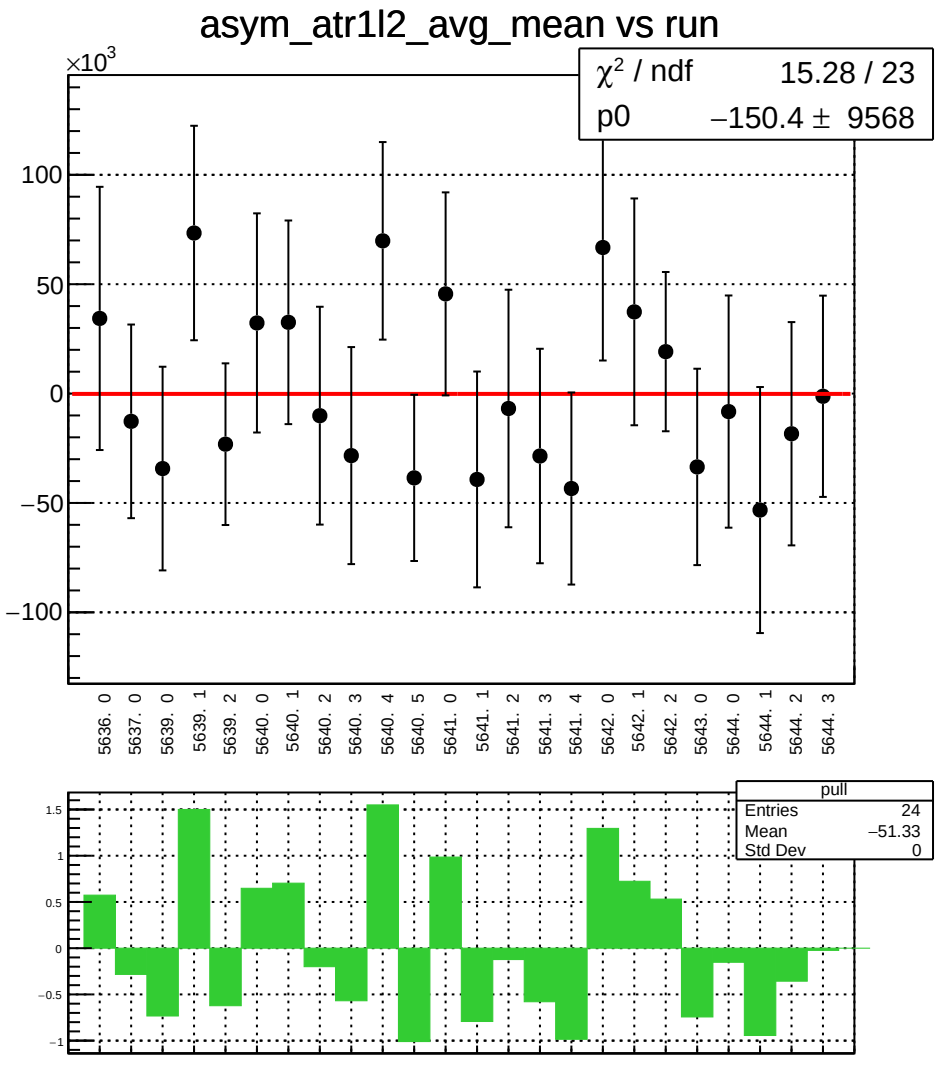

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 96.17 / 23
p0 1767 ± 2.545
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

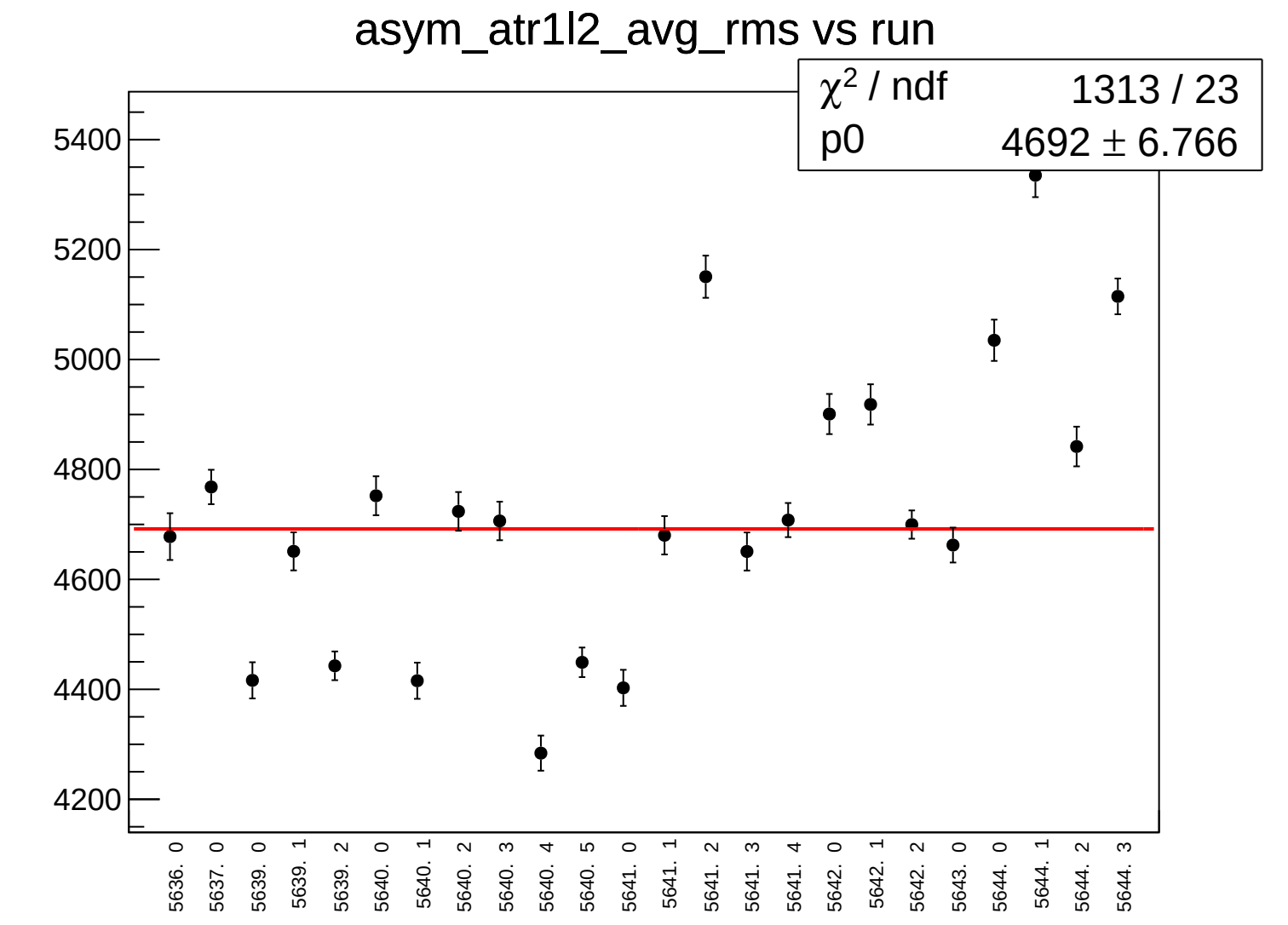

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 14.5 / 23
p0 −7854 ± 8760
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

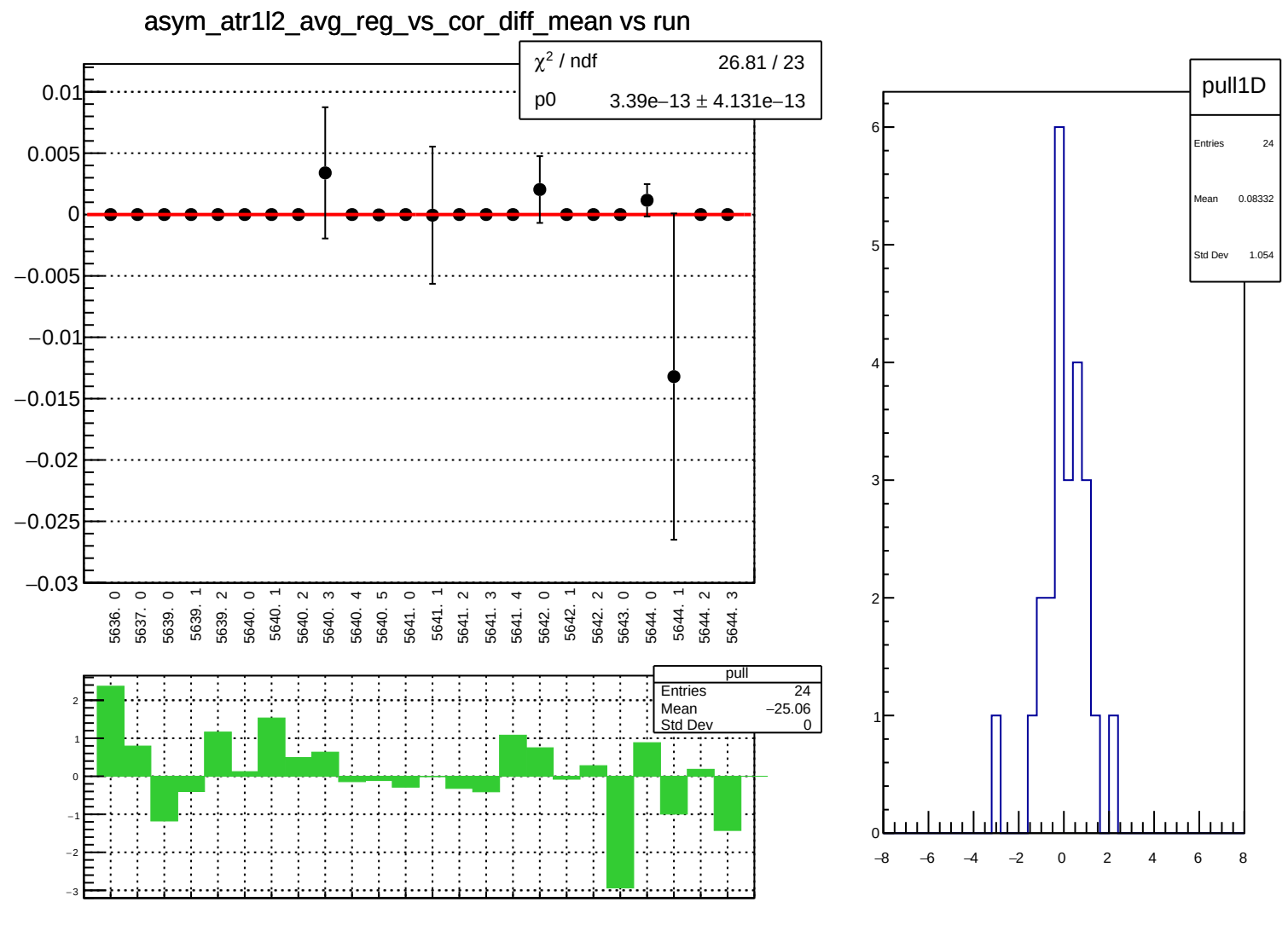

pull
Entries 24
Mean −224.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

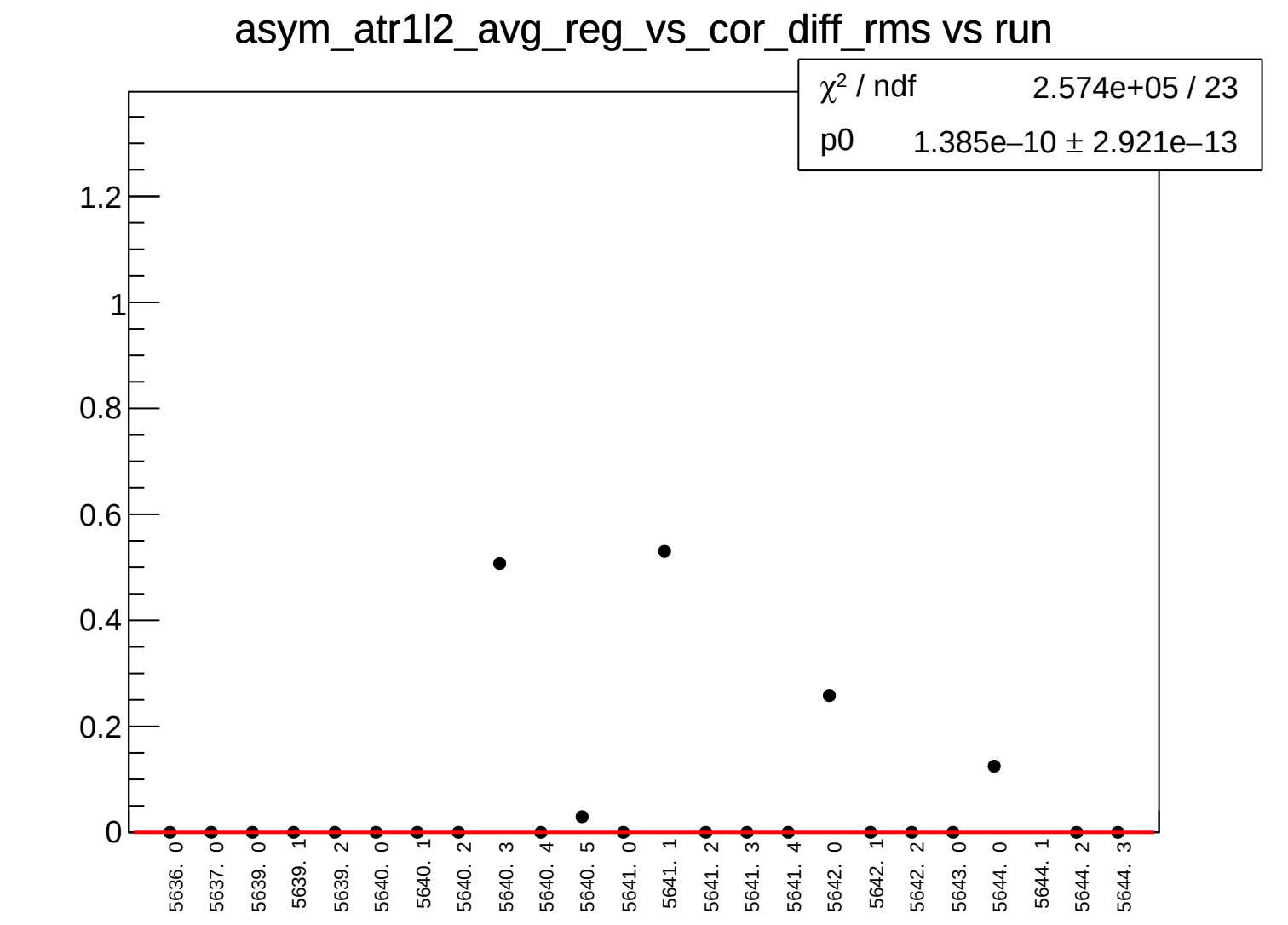

pull1D
Entries 24
Mean −0.01043
Std Dev 0.7773
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

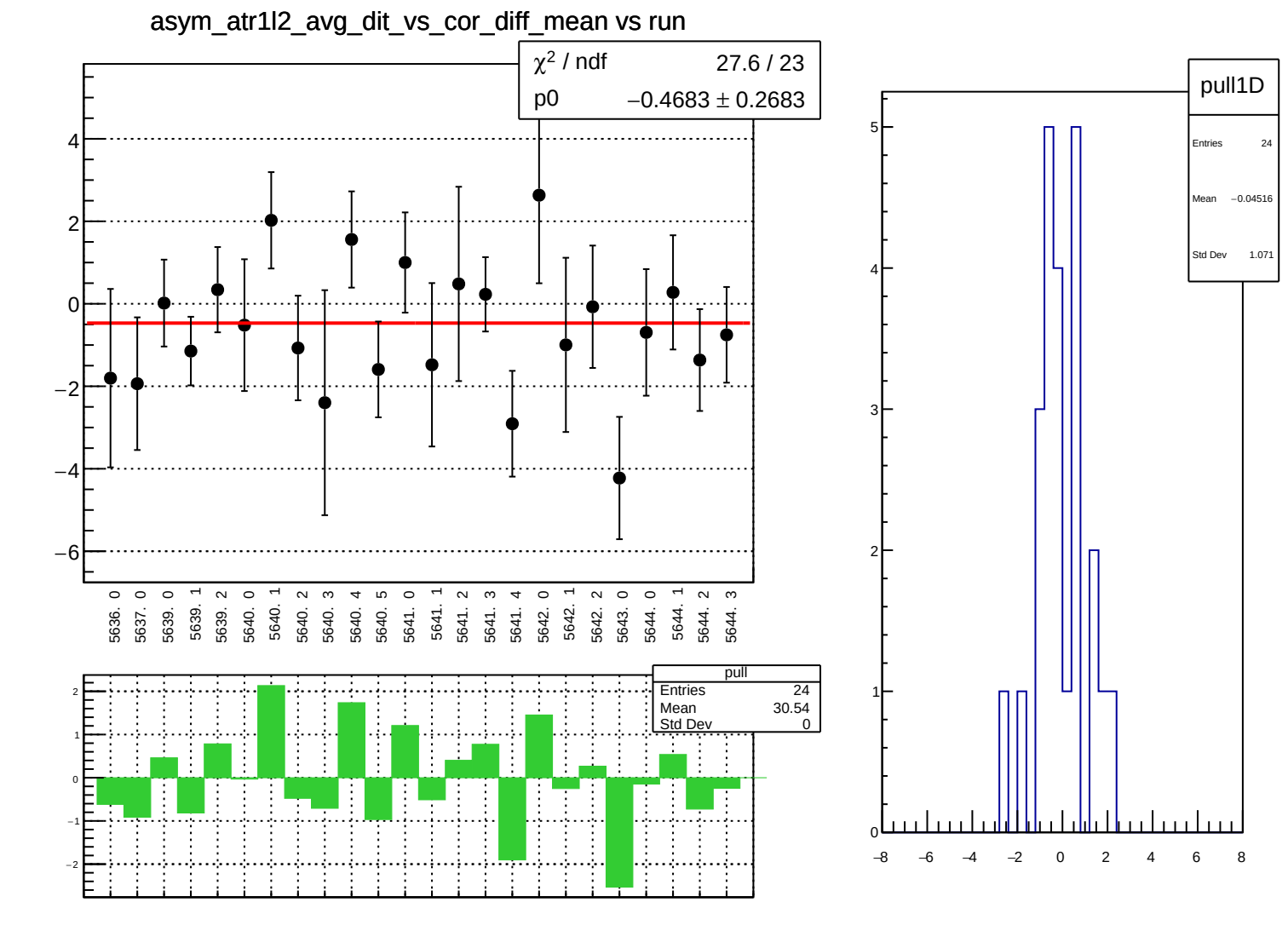

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1392 / 23
p0 4295 ± 6.194
5000
4800
4600
4400
4200
4000
3800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

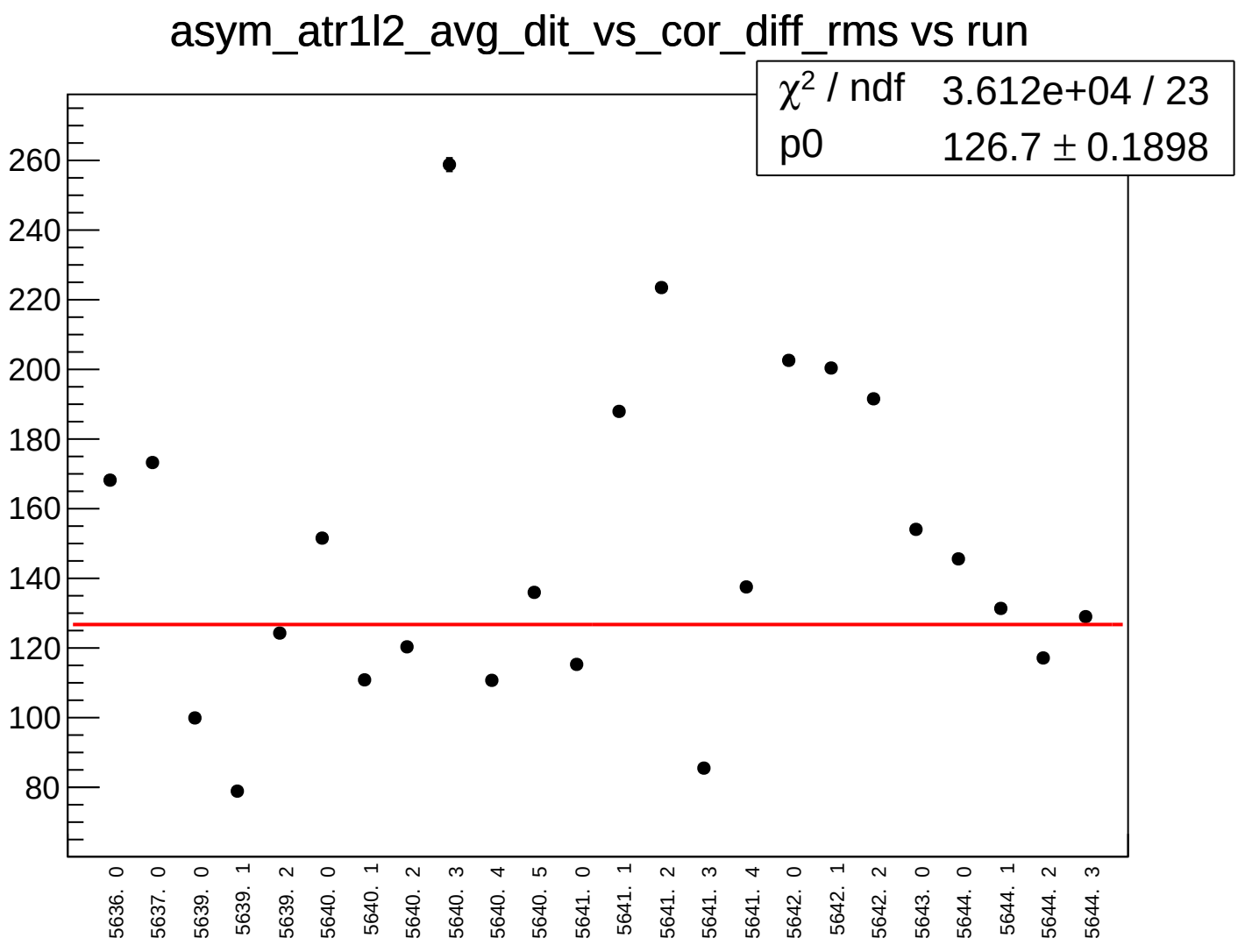

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 15.28 / 23
p0 −150.4 ± 9568
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −51.33
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.01635
Std Dev 0.7978
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

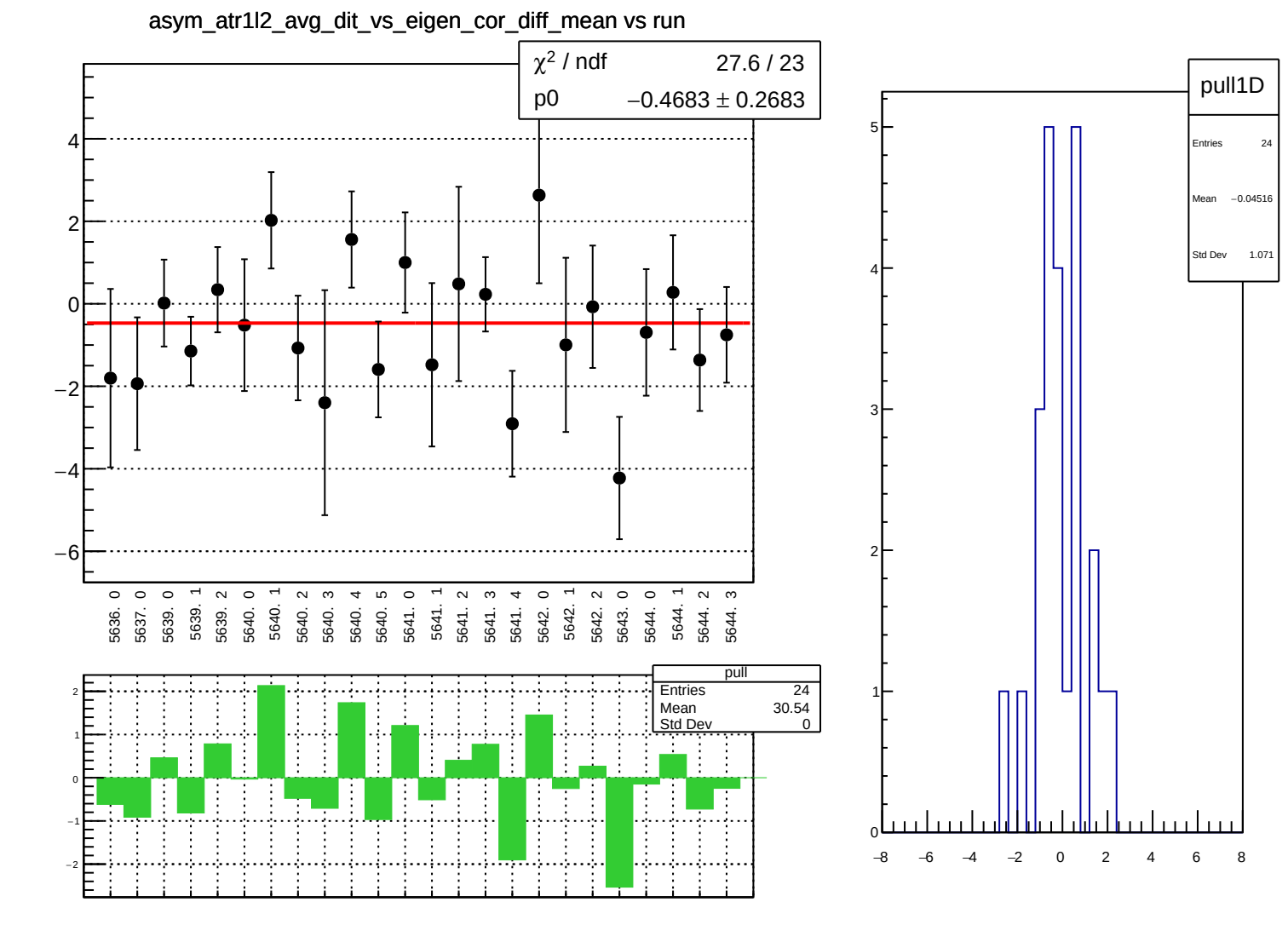

asym_atr1l2_avg_rms vs run
χ² / ndf 1313 / 23
p0 4692 ± 6.766
5400
5200
5000
4800
4600
4400
4200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

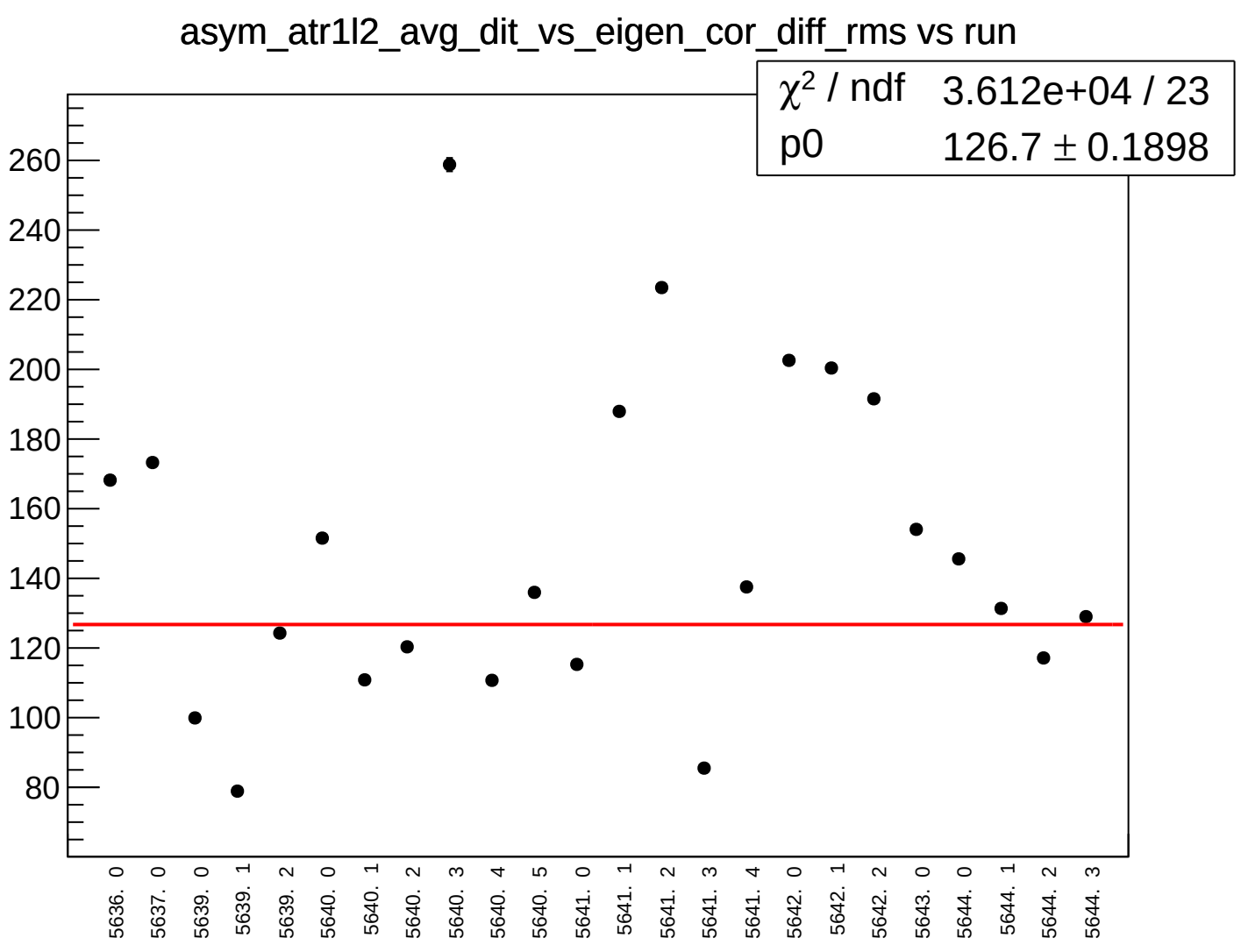

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 26.81 / 23
p0 3.39e−13 ± 4.131e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
−0.03
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −25.06
Std Dev 0
pull1D
Entries 24
Mean 0.08332
Std Dev 1.054

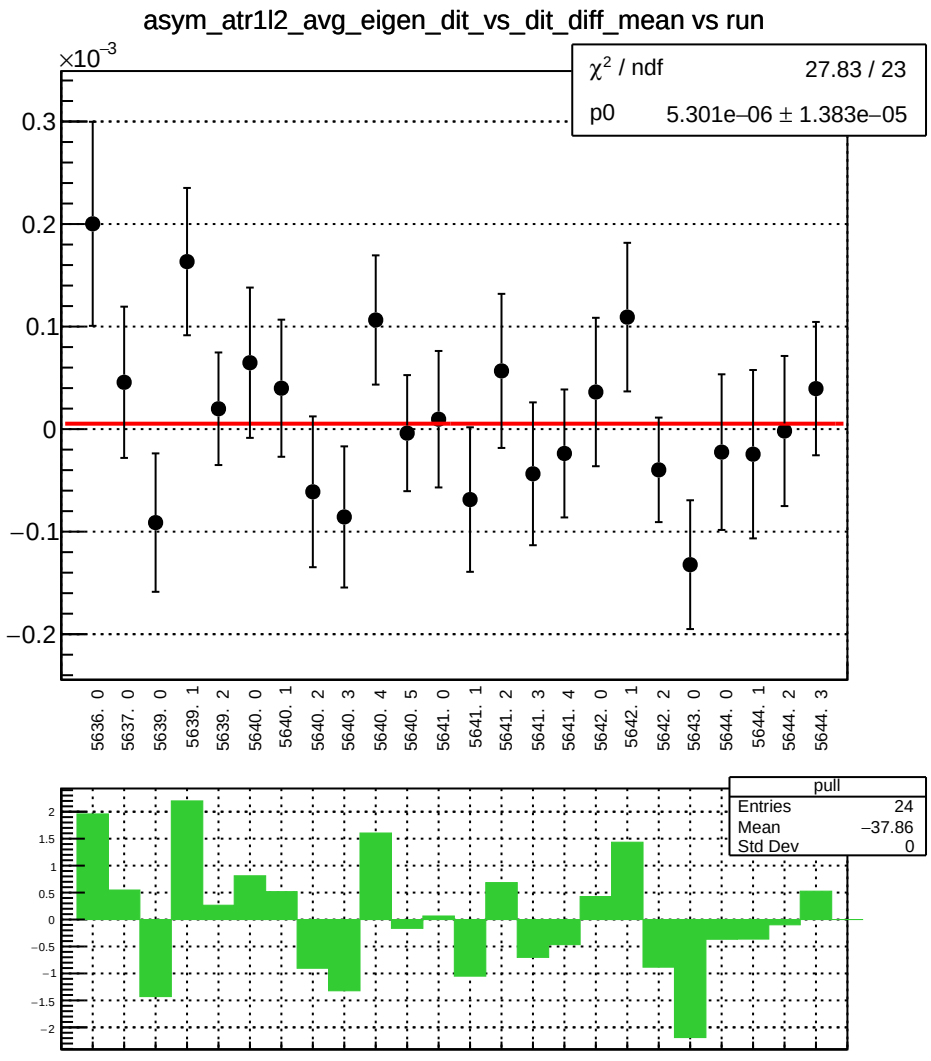

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.574e+05 / 23
p0 1.385e−10 ± 2.921e−13
1.2
1
0.8
0.6
0.4
0.2
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

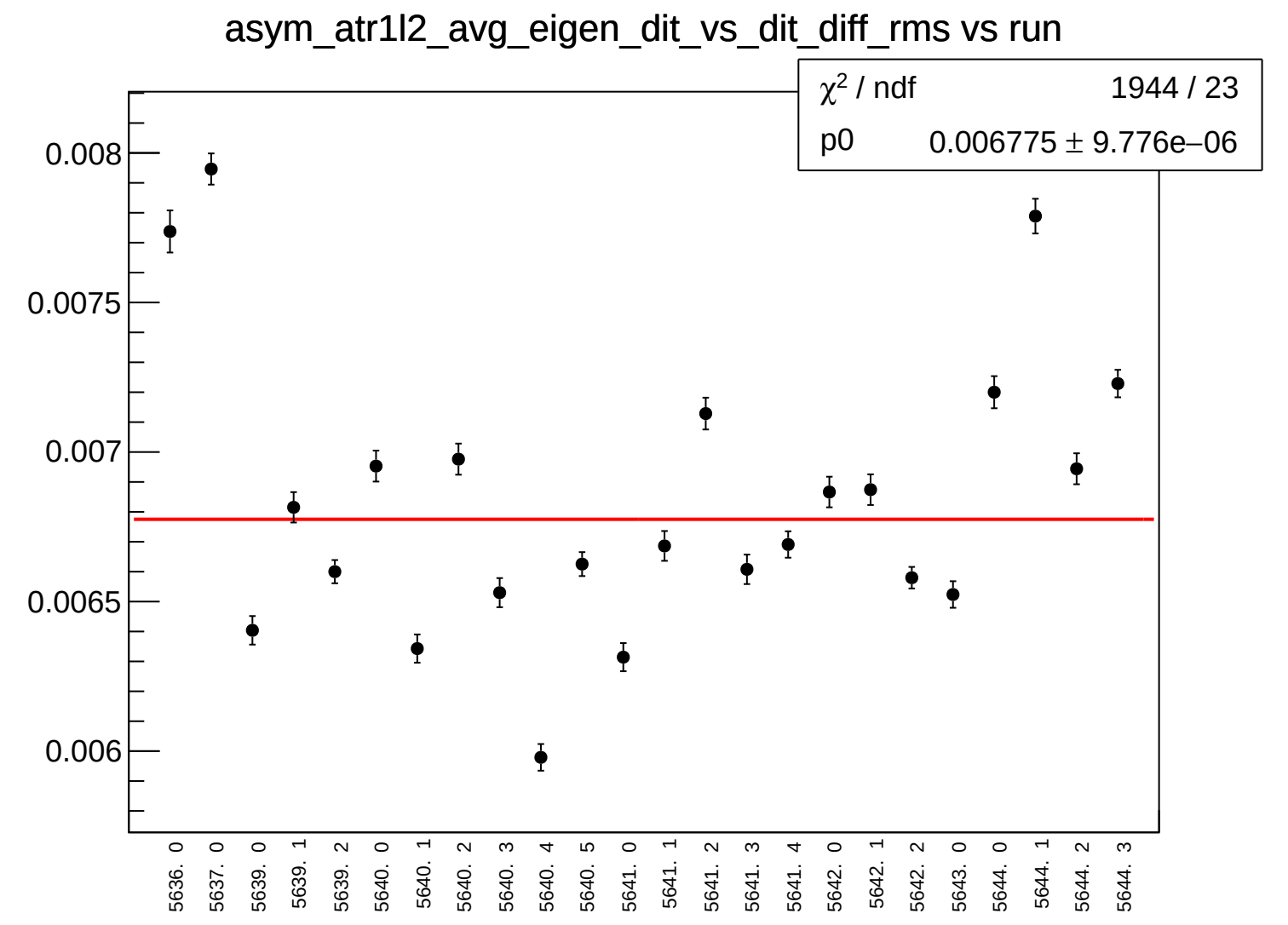

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 27.6 / 23
p0 −0.4683 ± 0.2683
4
2
0
−2
−4
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 30.54
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 24
Mean −0.04516
Std Dev 1.071
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

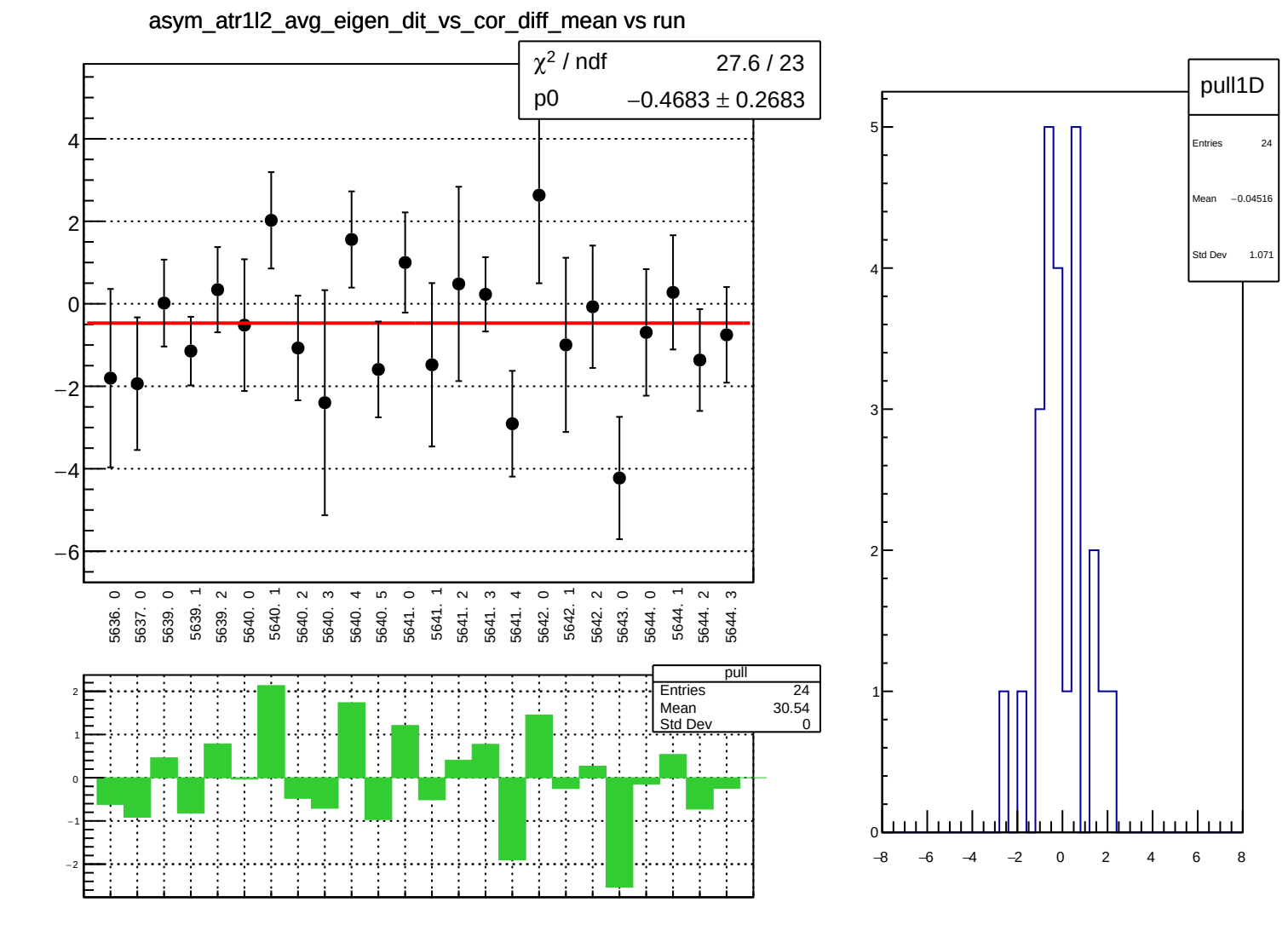

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.612e+04 / 23
p0 126.7 ± 0.1898
260
240
220
200
180
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

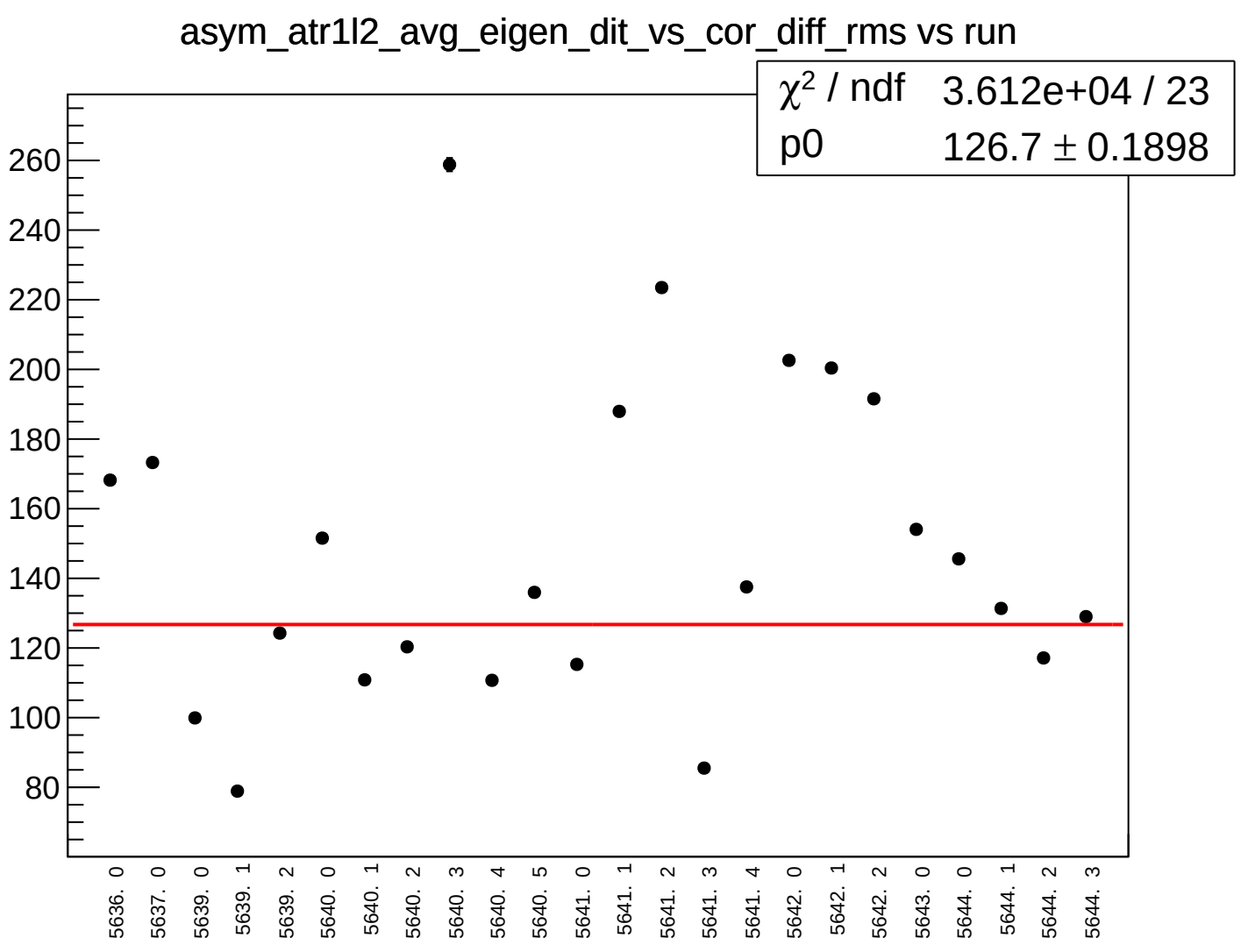

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.6 / 23
p0 −0.4683 ± 0.2683
4
2
0
−2
−4
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 30.54
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 24
Mean −0.04516
Std Dev 1.071
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

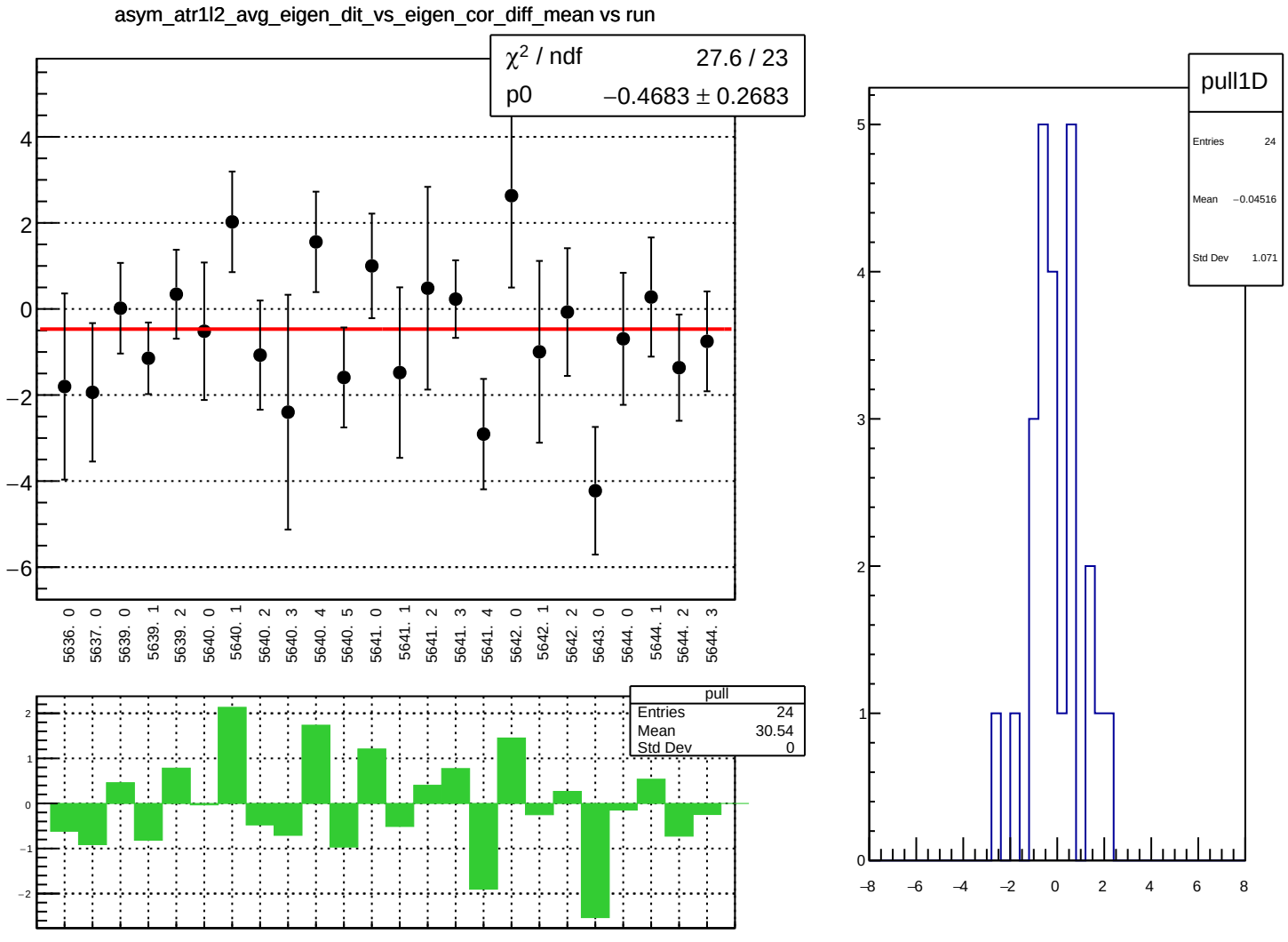

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.612e+04 / 23
p0 126.7 ± 0.1898
260
240
220
200
180
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

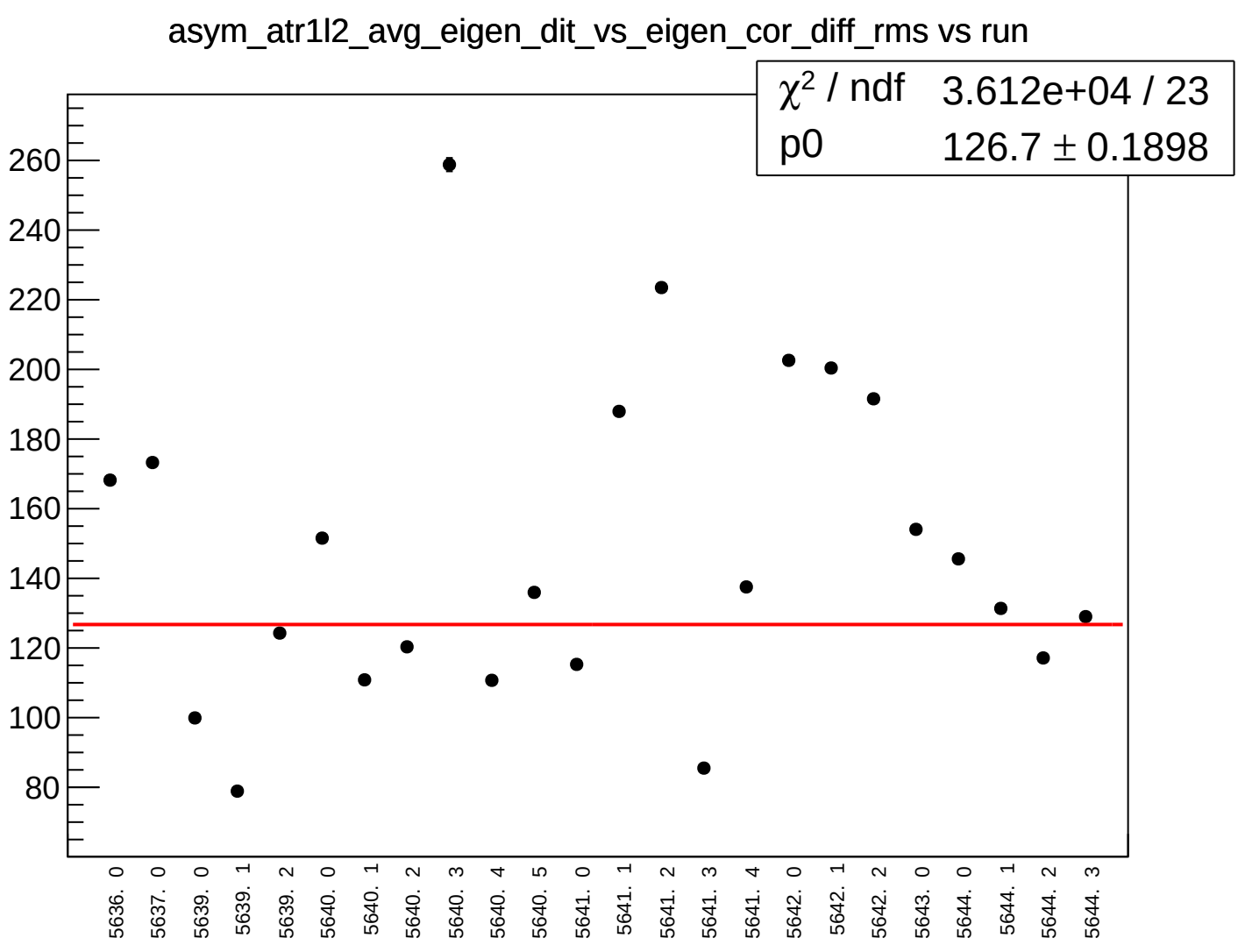

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 27.83 / 23
p0 5.301e−06 ± 1.383e−05
0.3
0.2
0.1
0
−0.1
−0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −37.86
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.04628
Std Dev 1.076
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

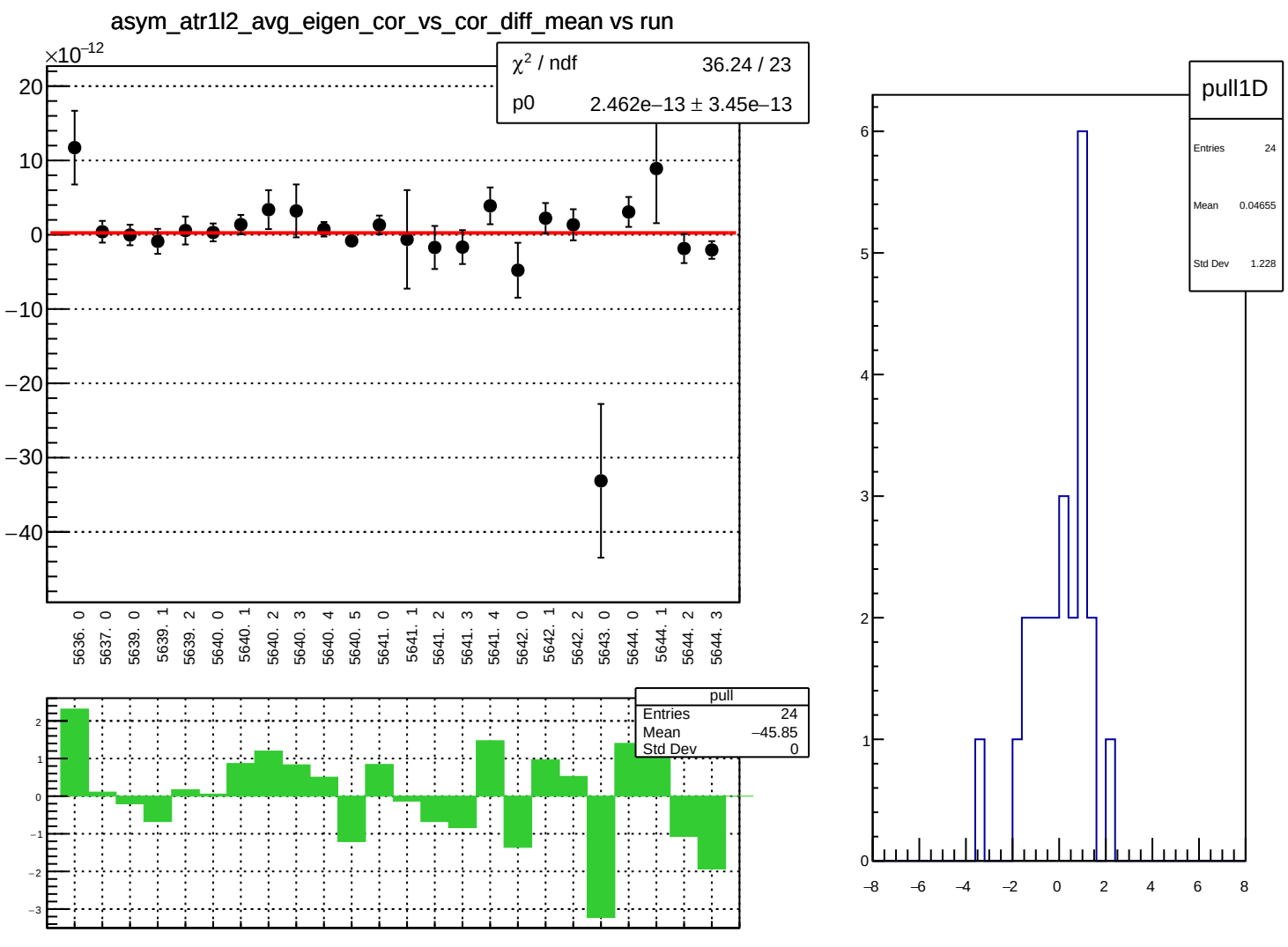

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1944 / 23
p0 0.006775 ± 9.776e−06
0.008
0.0075
0.007
0.0065
0.006
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

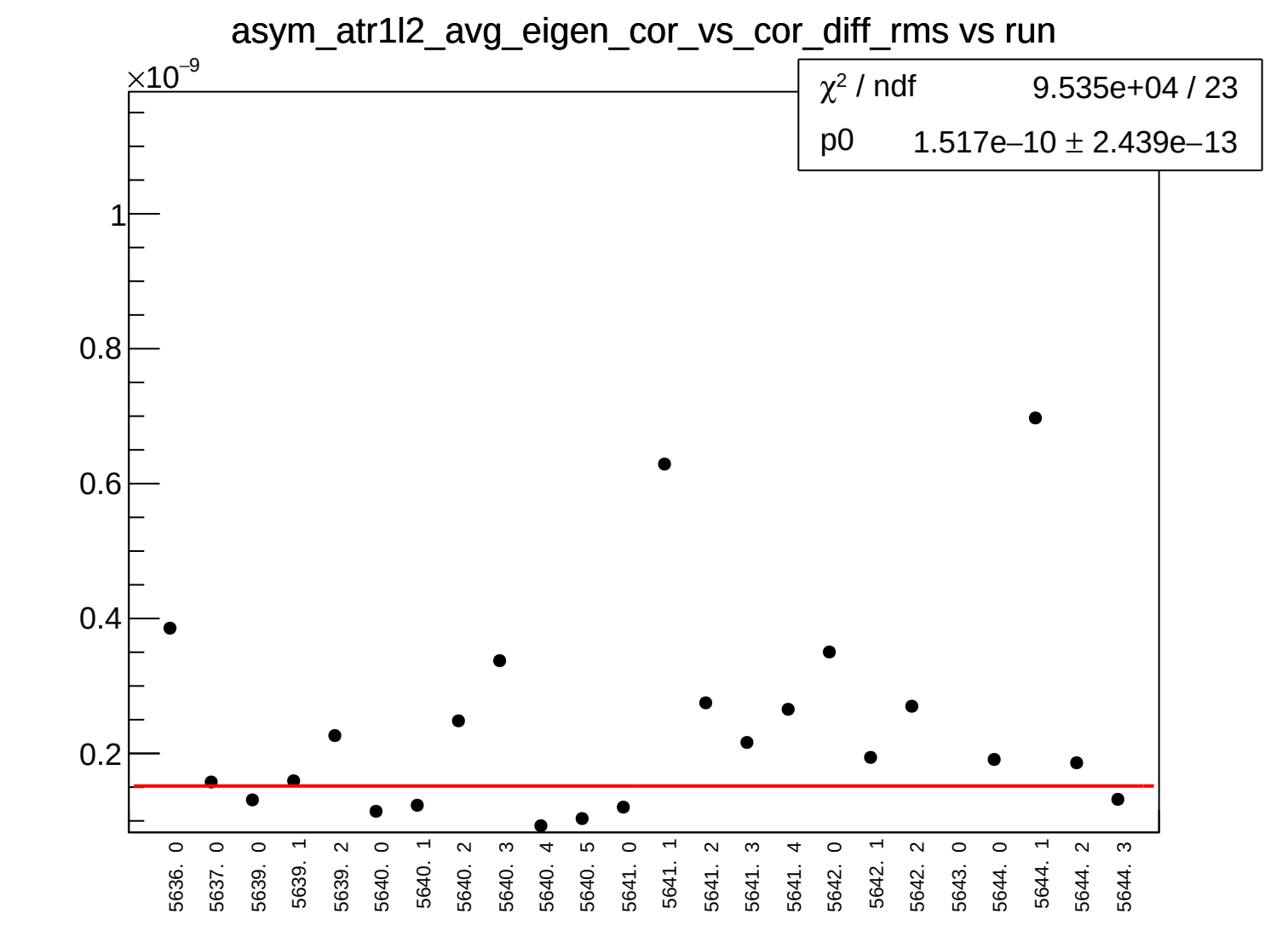

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 27.6 / 23
p0 −0.4683 ± 0.2683
4
2
0
−2
−4
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 30.54
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 24
Mean −0.04516
Std Dev 1.071
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

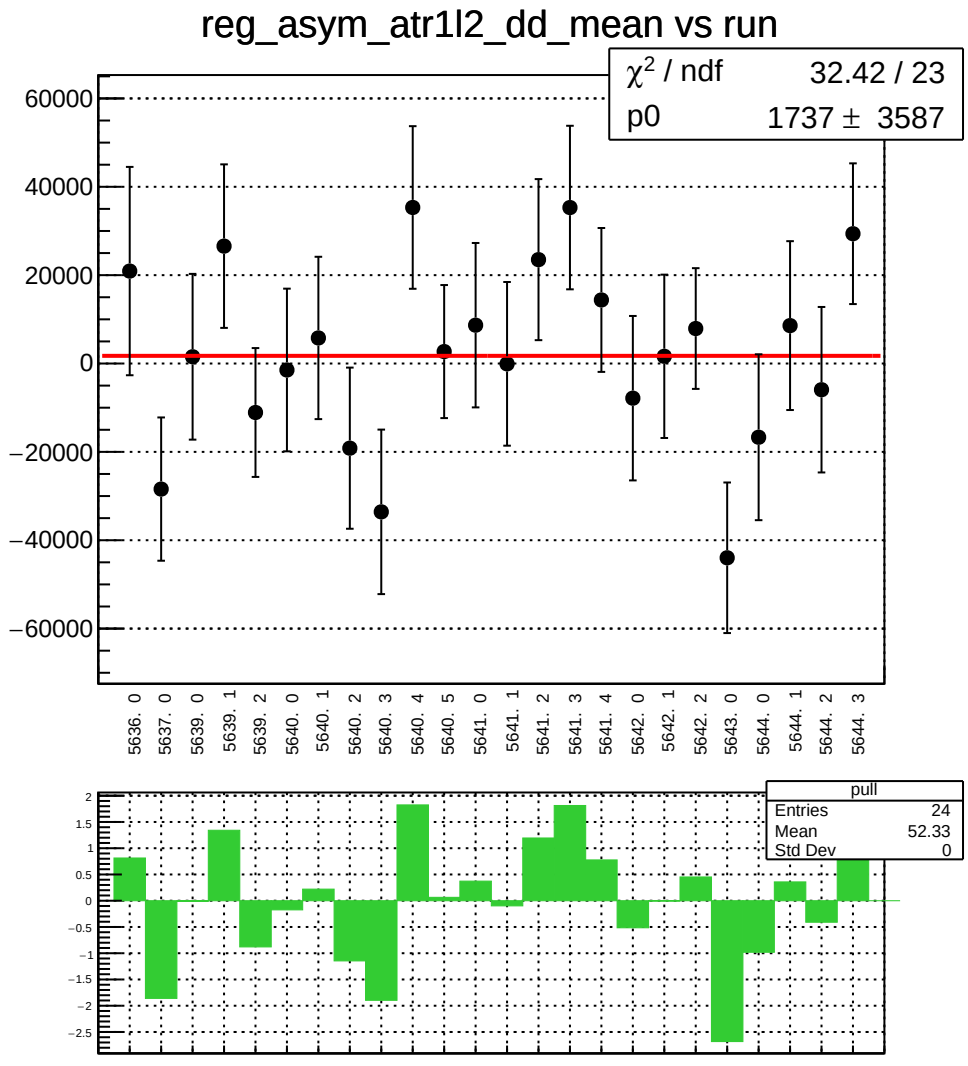

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.612e+04 / 23
p0 126.7 ± 0.1898
260
240
220
200
180
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

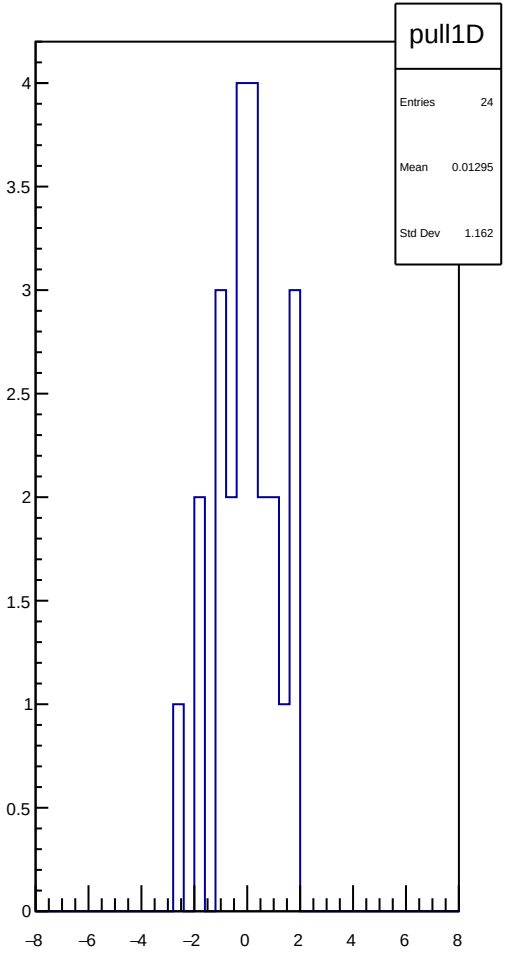

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.6 / 23
p0 −0.4683 ± 0.2683
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 30.54
Std Dev 0
pull1D
Entries 24
Mean −0.04516
Std Dev 1.071

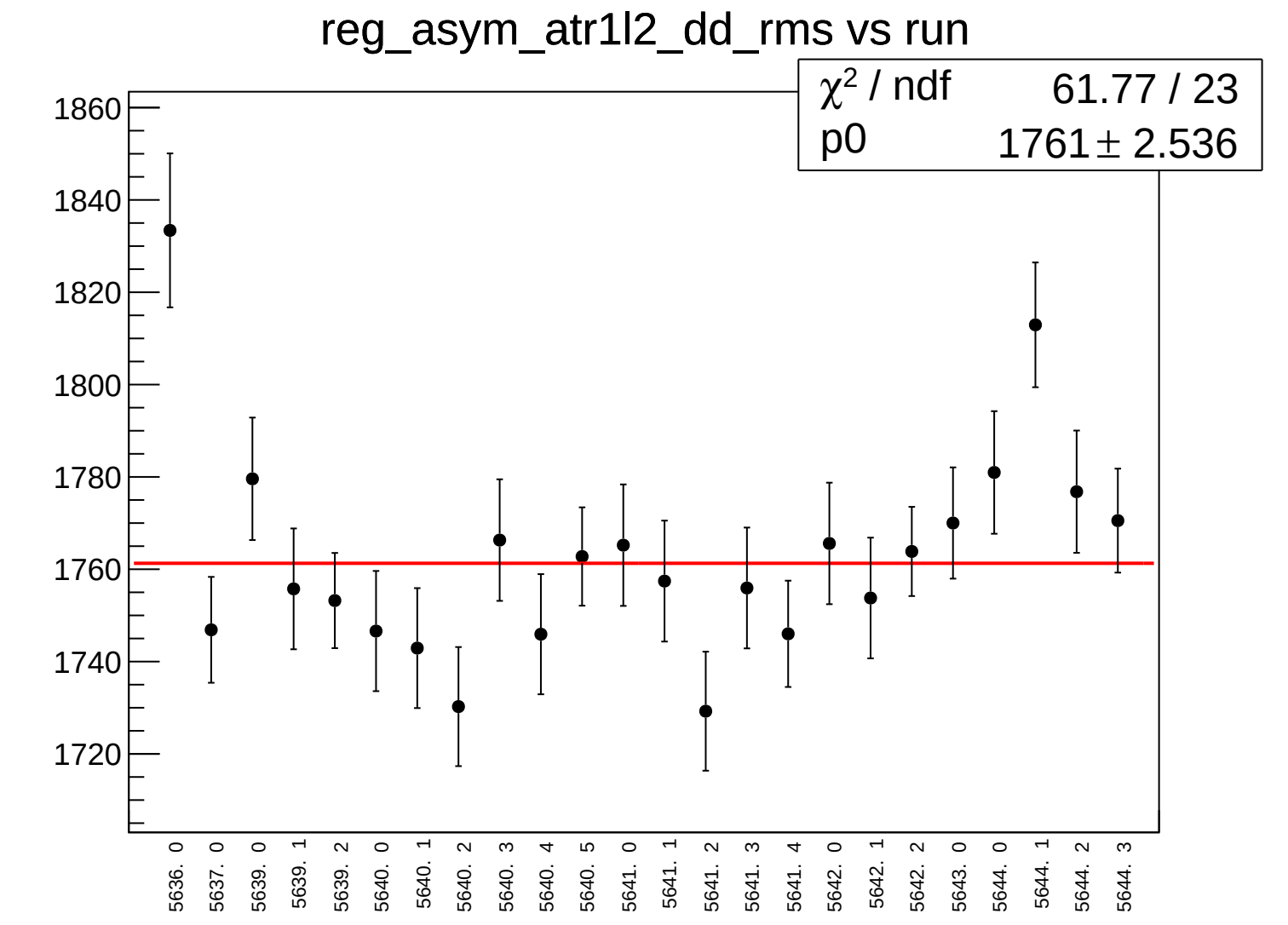

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.612e+04 / 23
p0 126.7 ± 0.1898
260
240
220
200
180
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

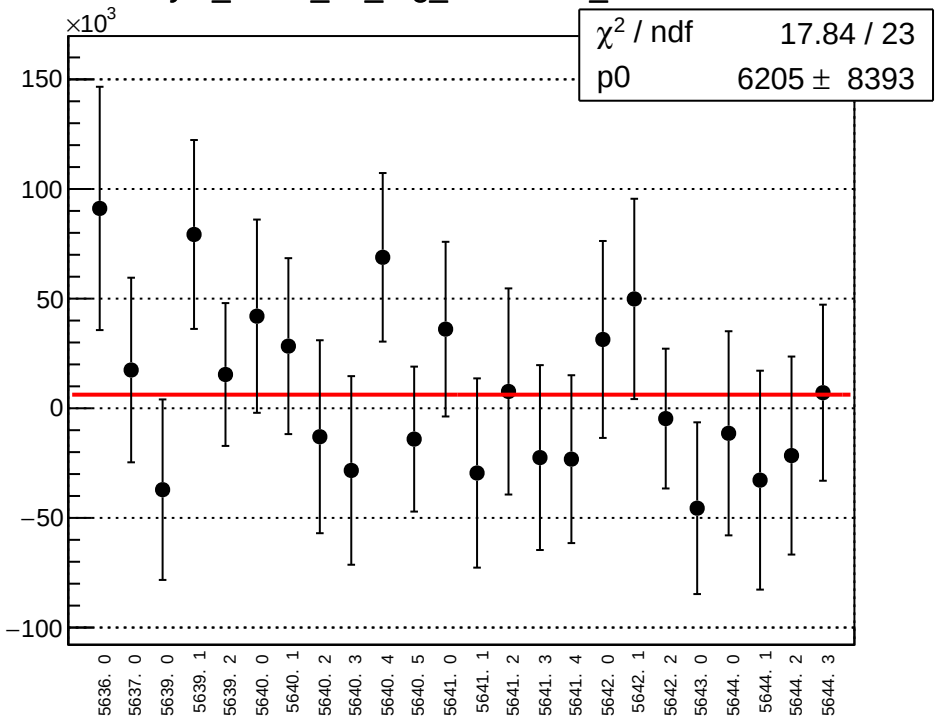

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 36.24 / 23
p0 2.462e−13 ± 3.45e−13
20
10
0
−10
−20
−30
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −45.85
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean 0.04655
Std Dev 1.228
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.535e+04 / 23
p0 1.517e−10 ± 2.439e−13
1
0.8
0.6
0.4
0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


reg_asym_atr1l2_dd_mean vs run
χ² / ndf 32.42 / 23
p0 1737 ± 3587
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 52.33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 24
Mean 0.01295
Std Dev 1.162
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_rms vs run
χ² / ndf 61.77 / 23
p0 1761 ± 2.536
1860
1840
1820
1800
1780
1760
1740
1720
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 17.84 / 23
p0 6205 ± 8393
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
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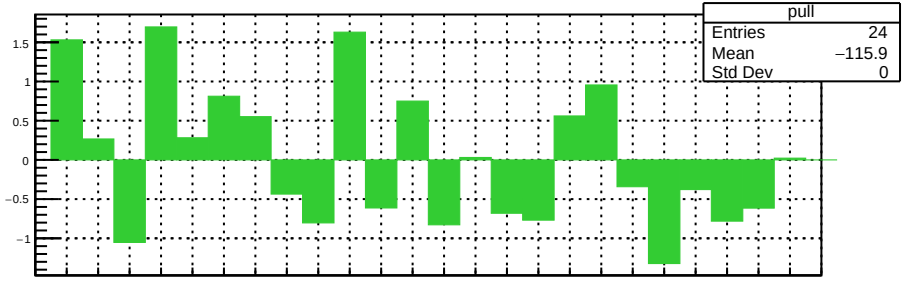
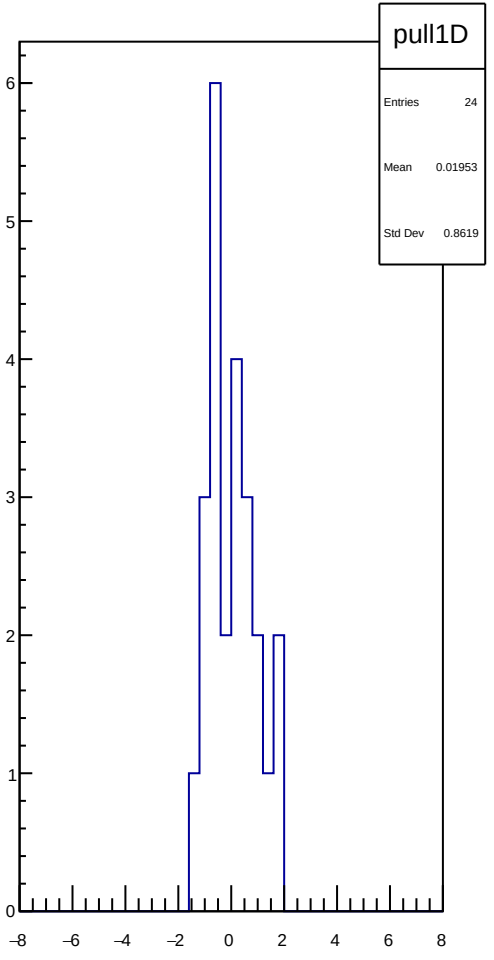
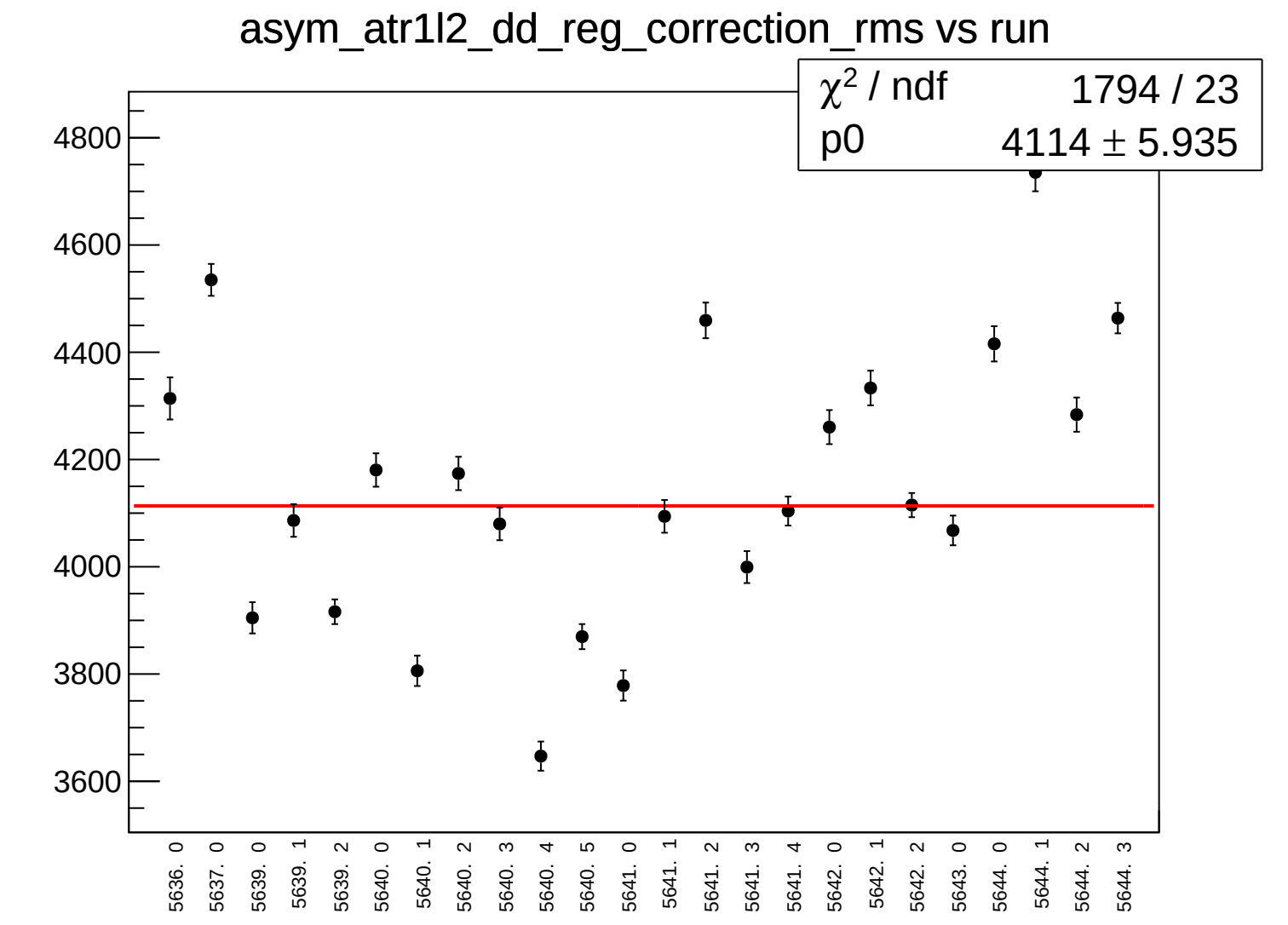
5644. 2
5644. 3


pull
Entries 24
Mean −115.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 24
Mean 0.01953
Std Dev 0.8619
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 1794 / 23
p0 4114 ± 5.935
4800
4600
4400
4200
4000
3800
3600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5641. 4
5642. 0
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5644. 0
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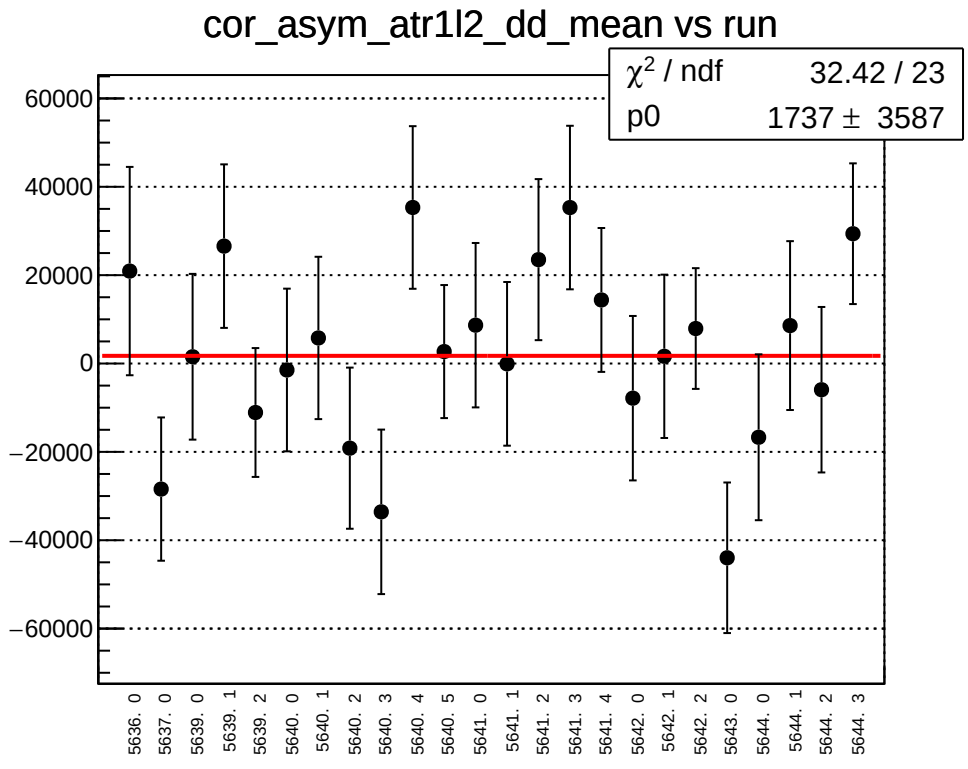
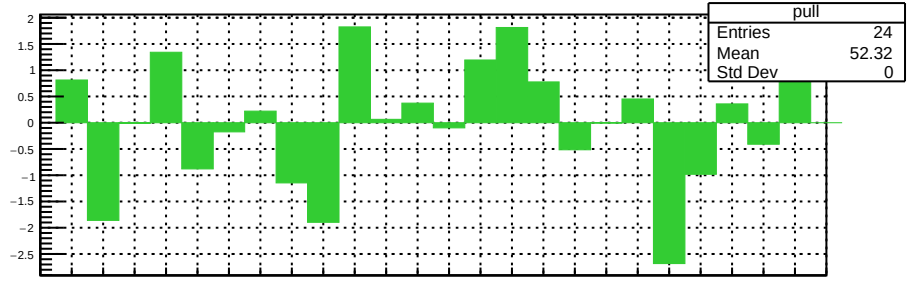
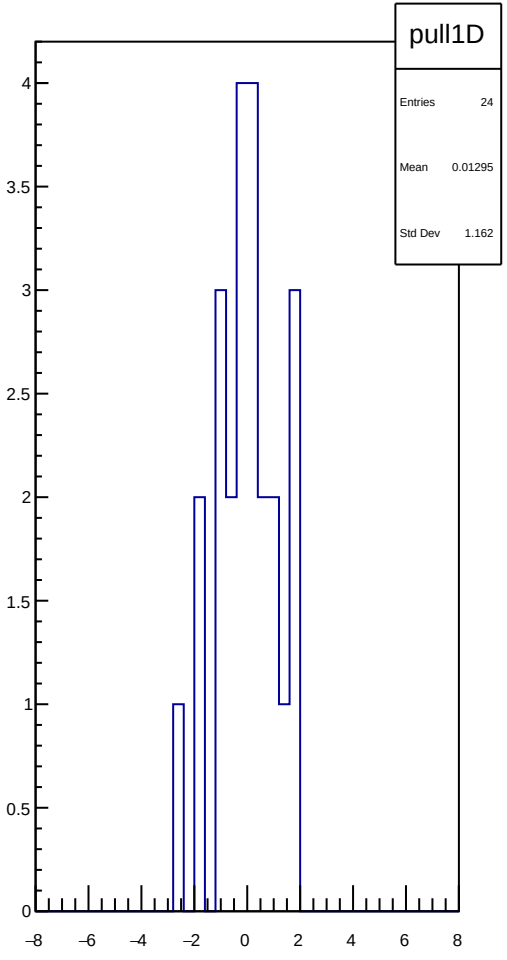
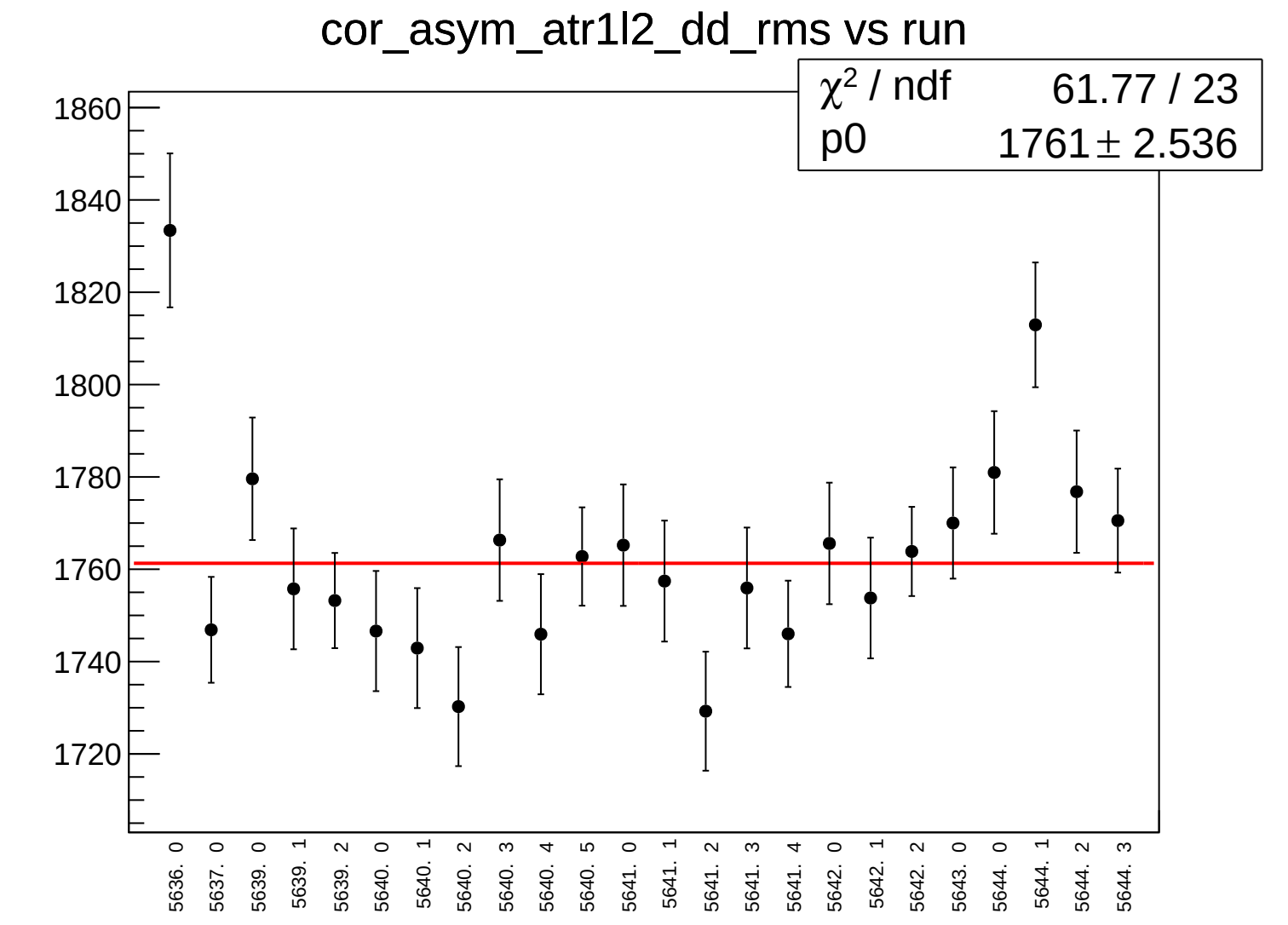
5644. 2
5644. 3


cor_asym_atr1l2_dd_mean vs run
χ² / ndf 32.42 / 23
p0 1737 ± 3587
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


pull
Entries 24
Mean 52.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 24
Mean 0.01295
Std Dev 1.162
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atr1l2_dd_rms vs run
χ² / ndf 61.77 / 23
p0 1761 ± 2.536
1860
1840
1820
1800
1780
1760
1740
1720
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5643. 0
5644. 0
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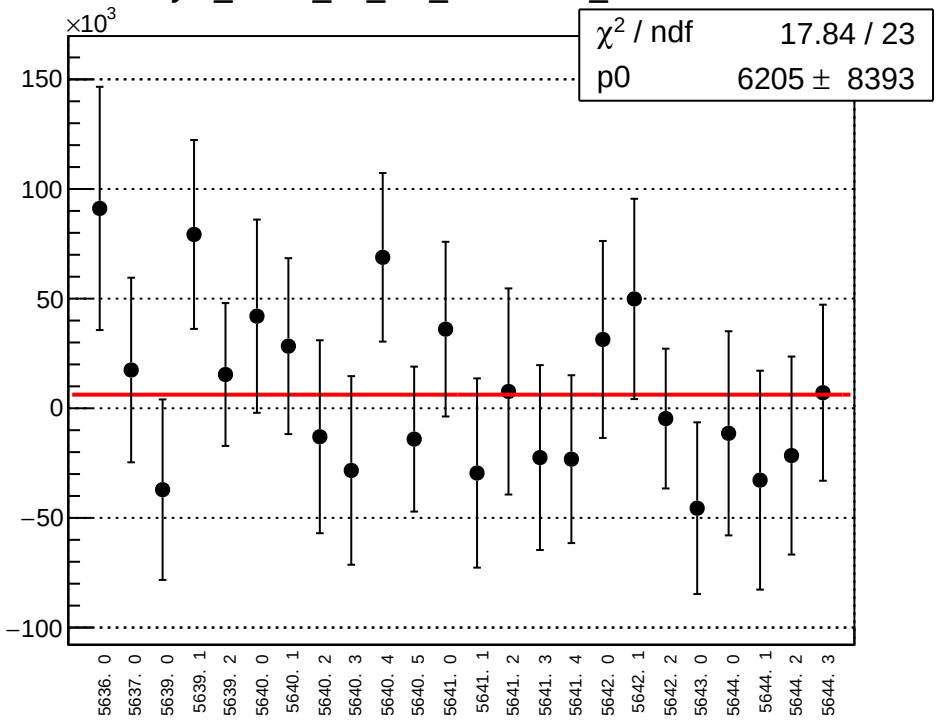
5644. 2
5644. 3


asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 17.84 / 23
p0 6205 ± 8393
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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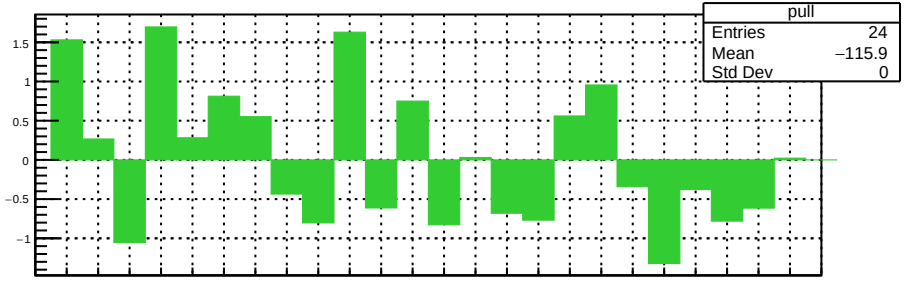
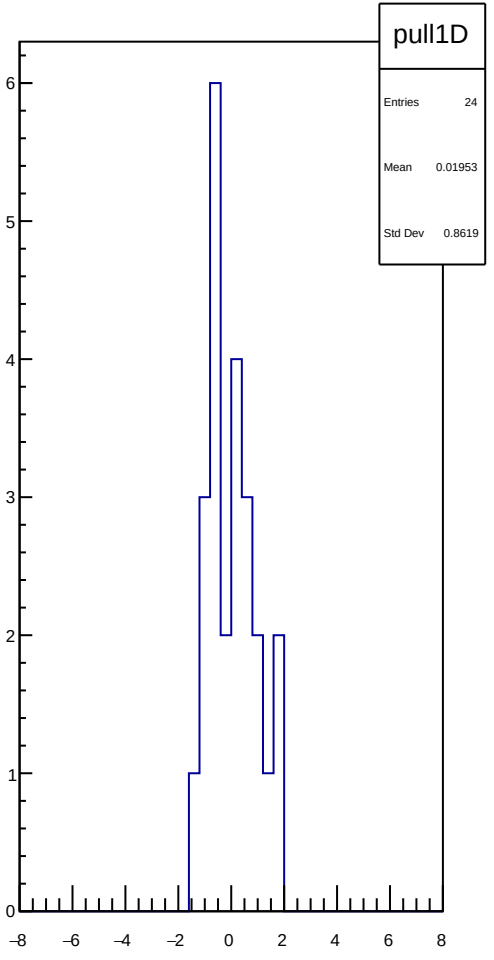
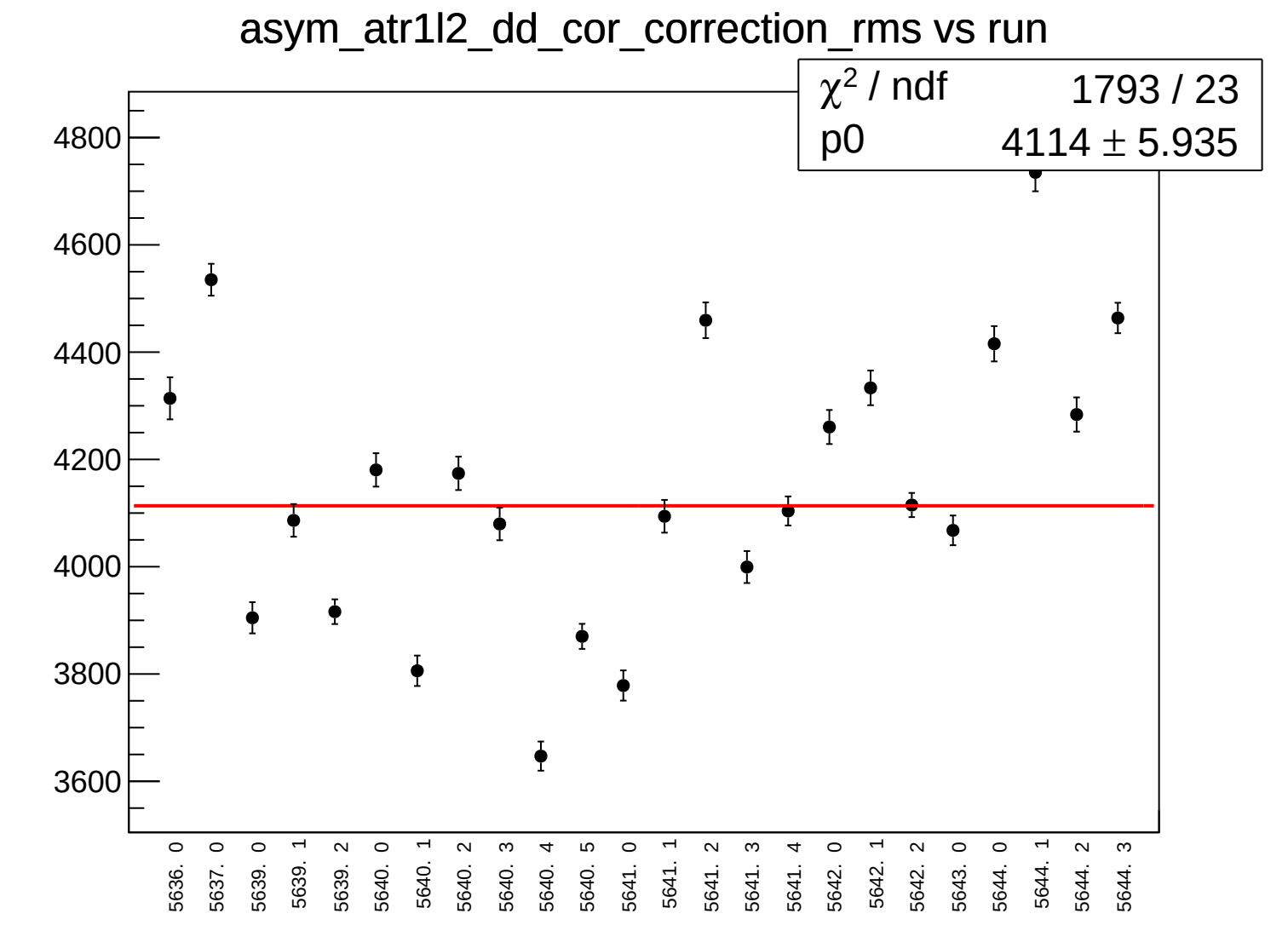
5644. 2
5644. 3


pull
Entries 24
Mean −115.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 24
Mean 0.01953
Std Dev 0.8619
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 1793 / 23
p0 4114 ± 5.935
4800
4600
4400
4200
4000
3800
3600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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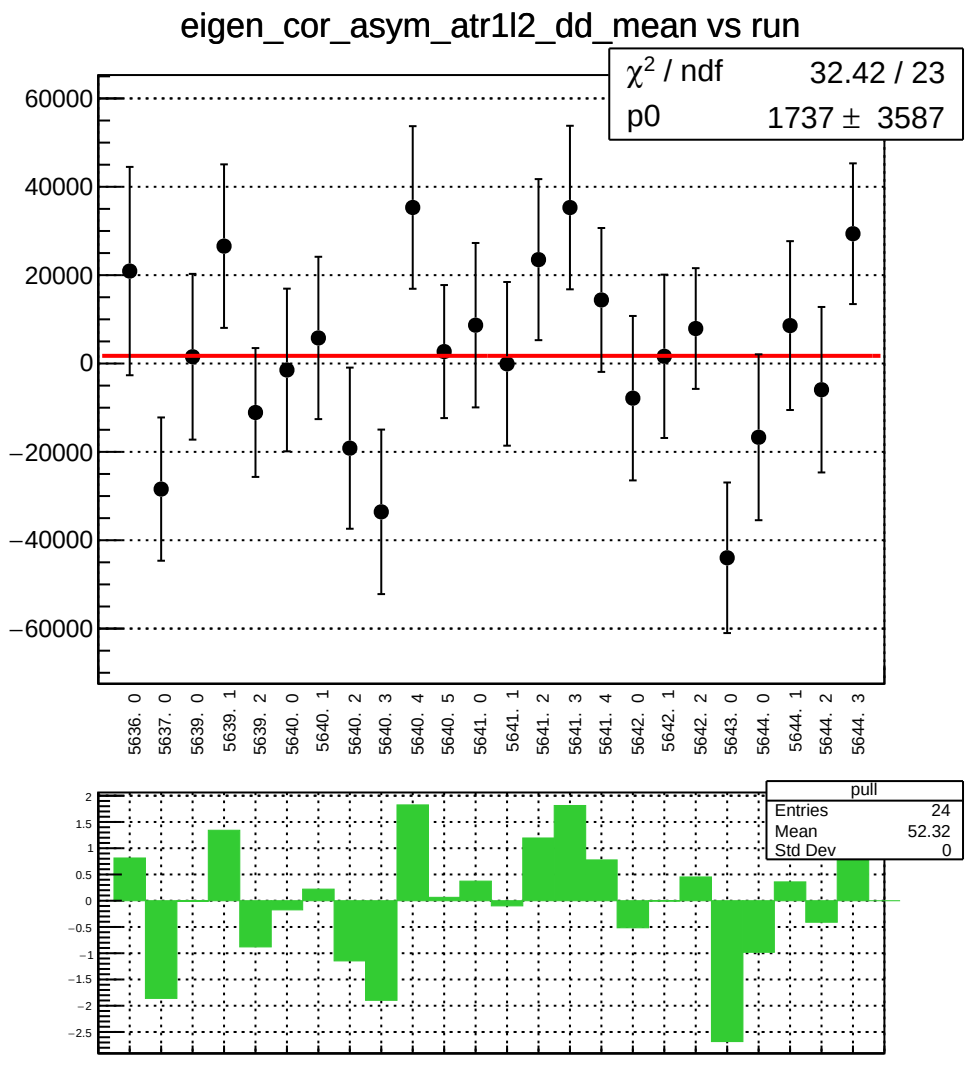
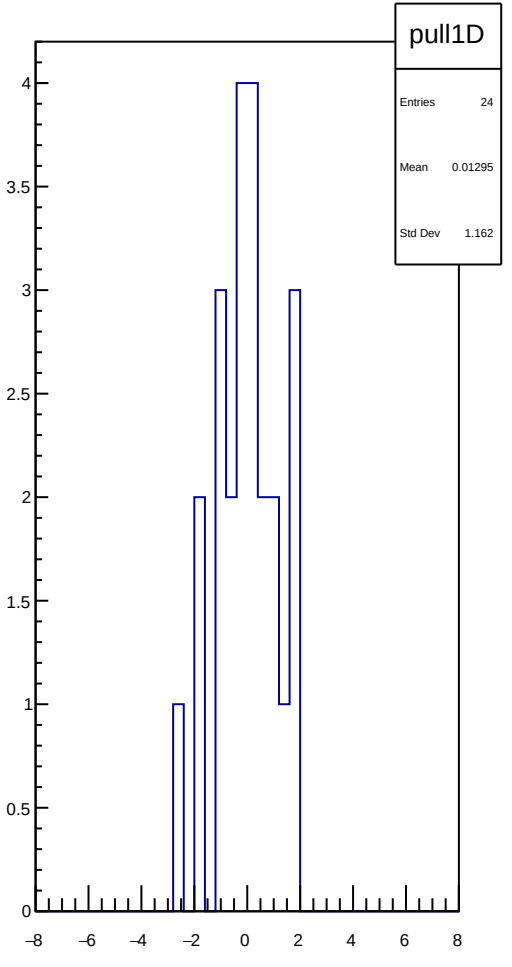
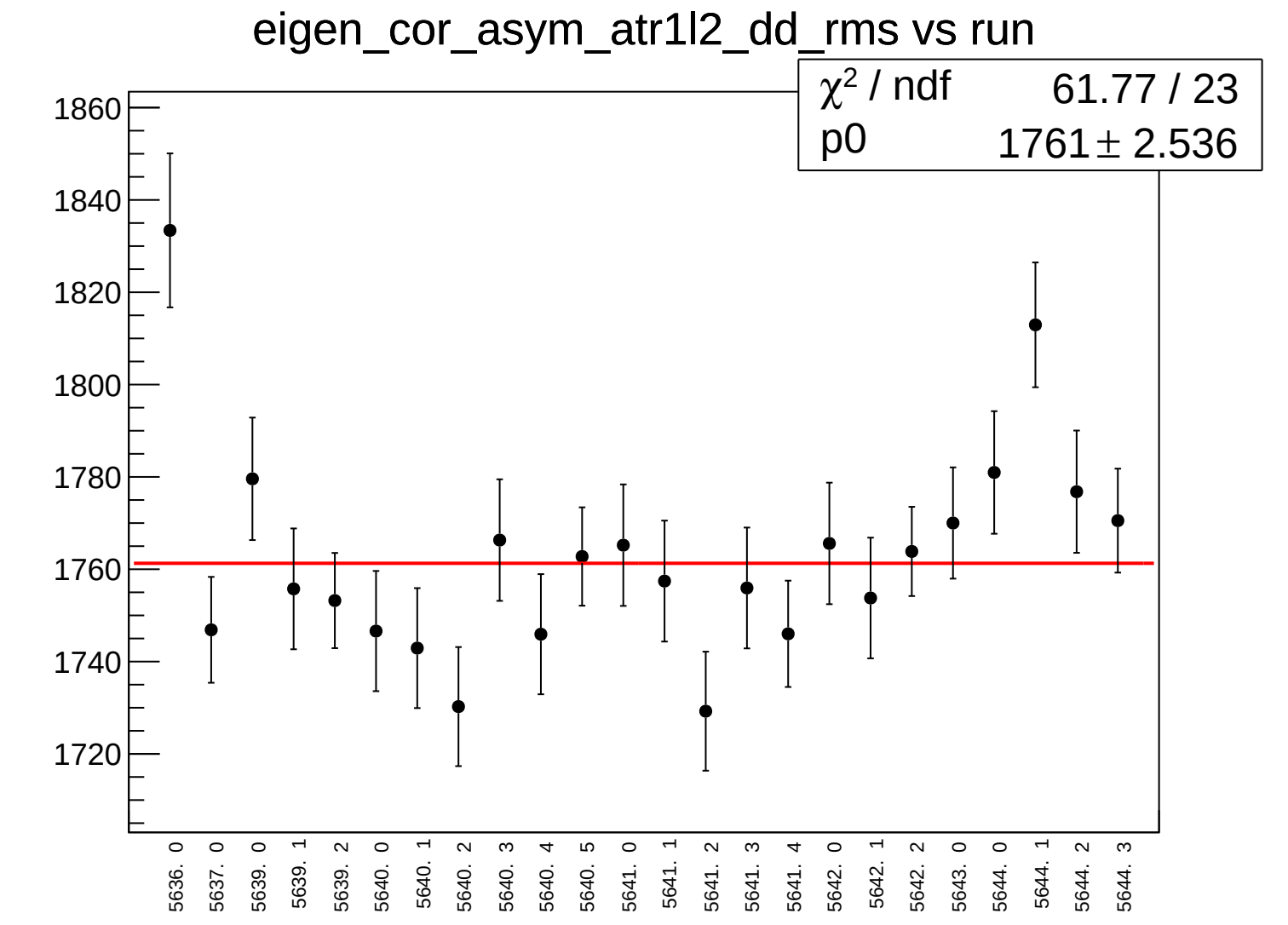
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 32.42 / 23
p0 1737 ± 3587
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 52.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 24
Mean 0.01295
Std Dev 1.162
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 61.77 / 23
p0 1761 ± 2.536
1860
1840
1820
1800
1780
1760
1740
1720
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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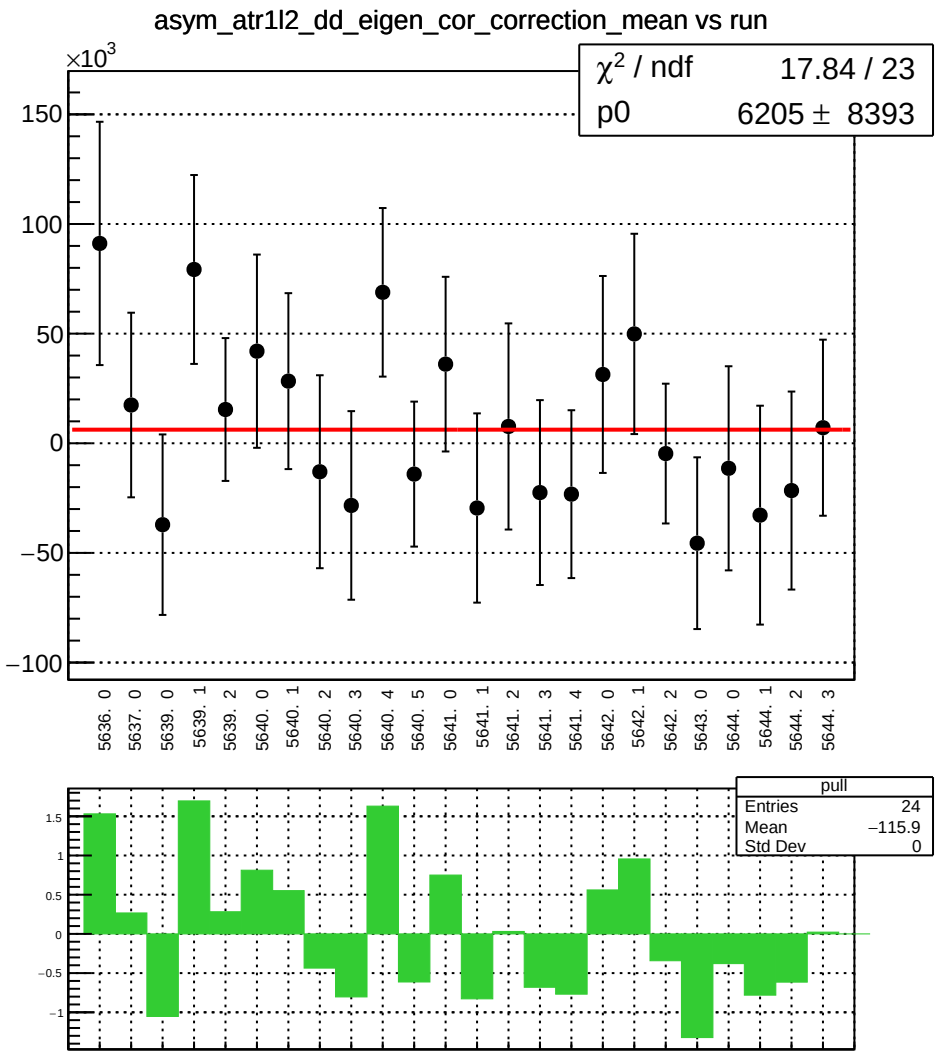
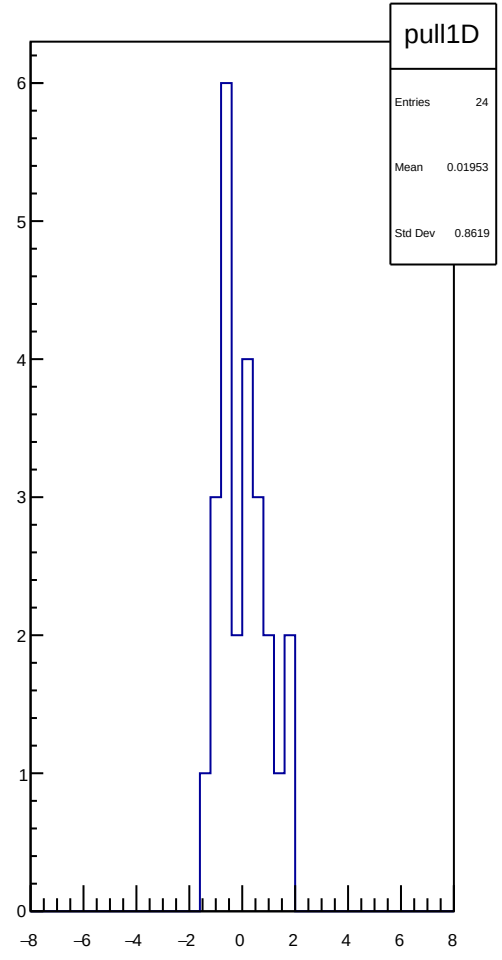
5644. 2
5644. 3


asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 17.84 / 23
p0 6205 ± 8393
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −115.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 24
Mean 0.01953
Std Dev 0.8619
6
5
4
3
2
1
0
−8
−6
−4
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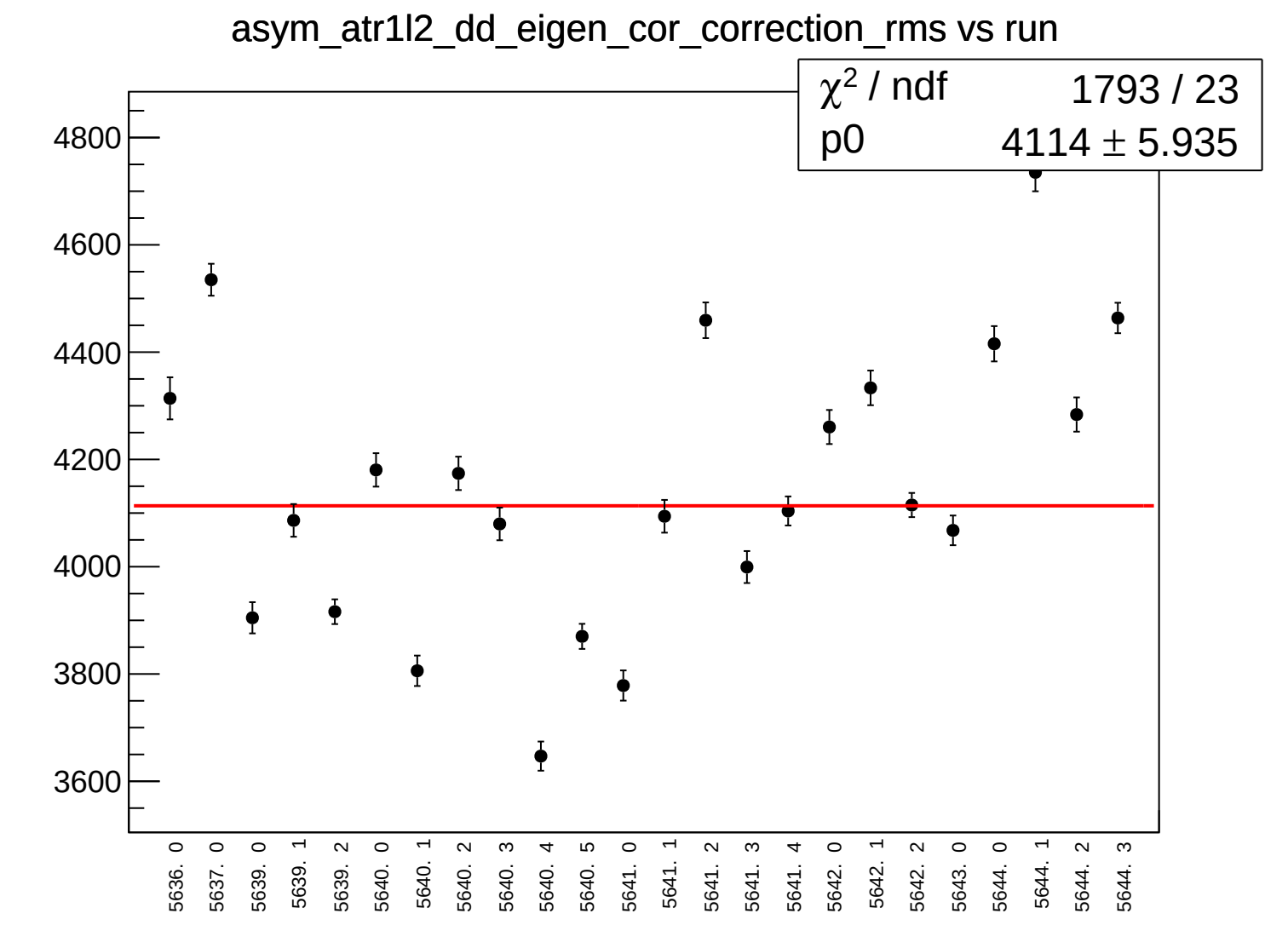
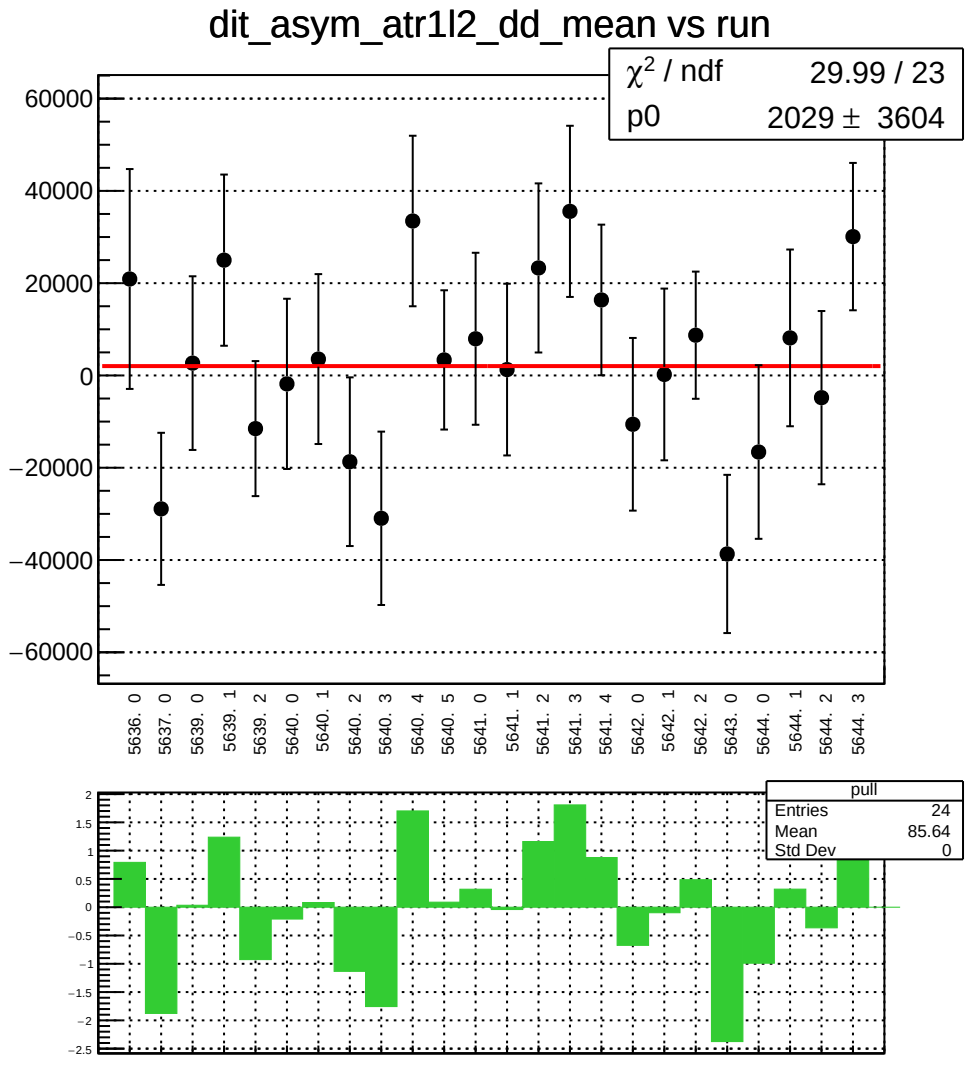
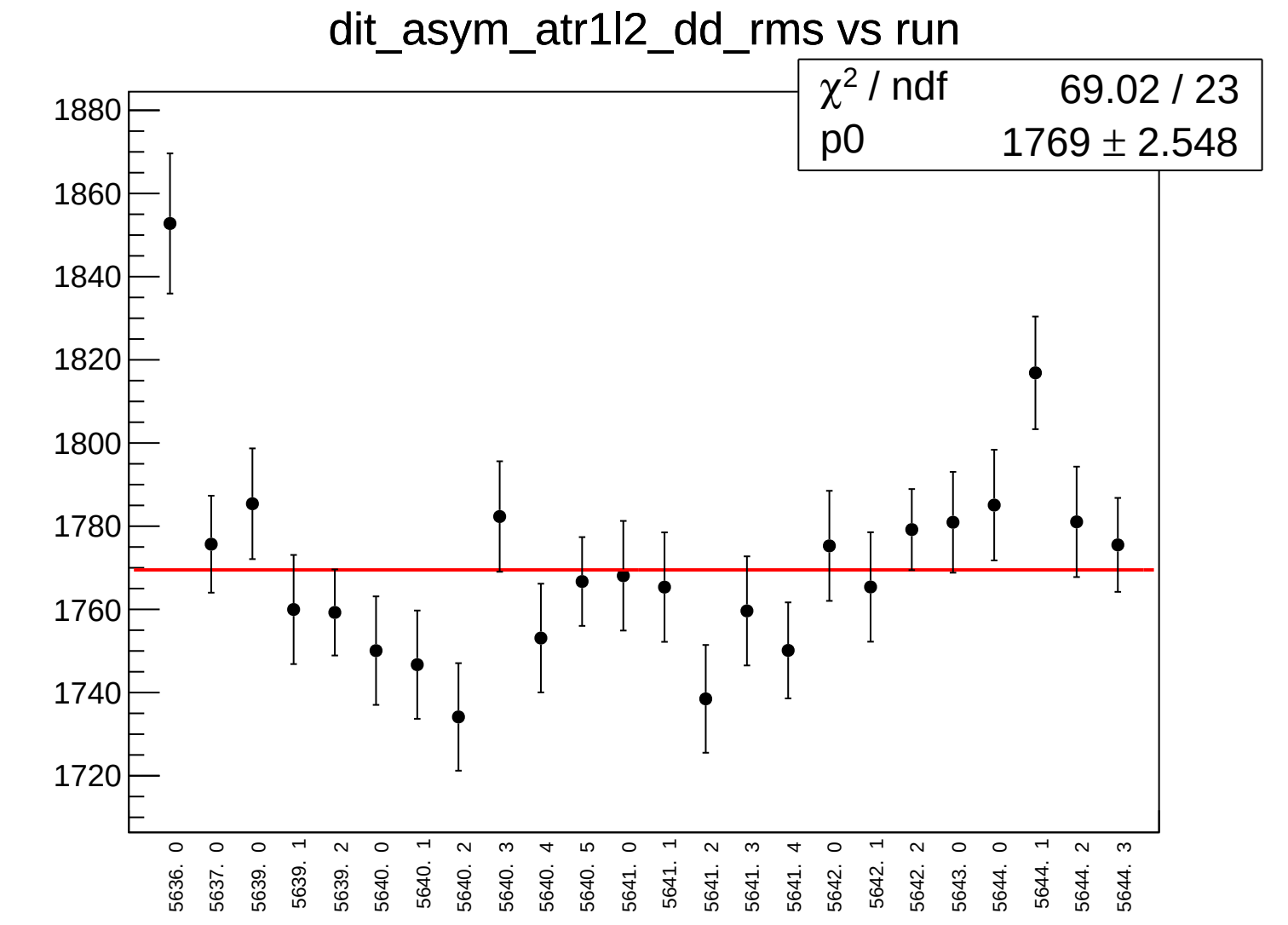
0
2
4
6
8


asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1793 / 23
p0 4114 ± 5.935
4800
4600
4400
4200
4000
3800
3600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


dit_asym_atr1l2_dd_mean vs run
χ² / ndf 29.99 / 23
p0 2029 ± 3604
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 85.64
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean 0.00928
Std Dev 1.118
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atr1l2_dd_rms vs run
χ² / ndf 69.02 / 23
p0 1769 ± 2.548
1880
1860
1840
1820
1800
1780
1760
1740
1720
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
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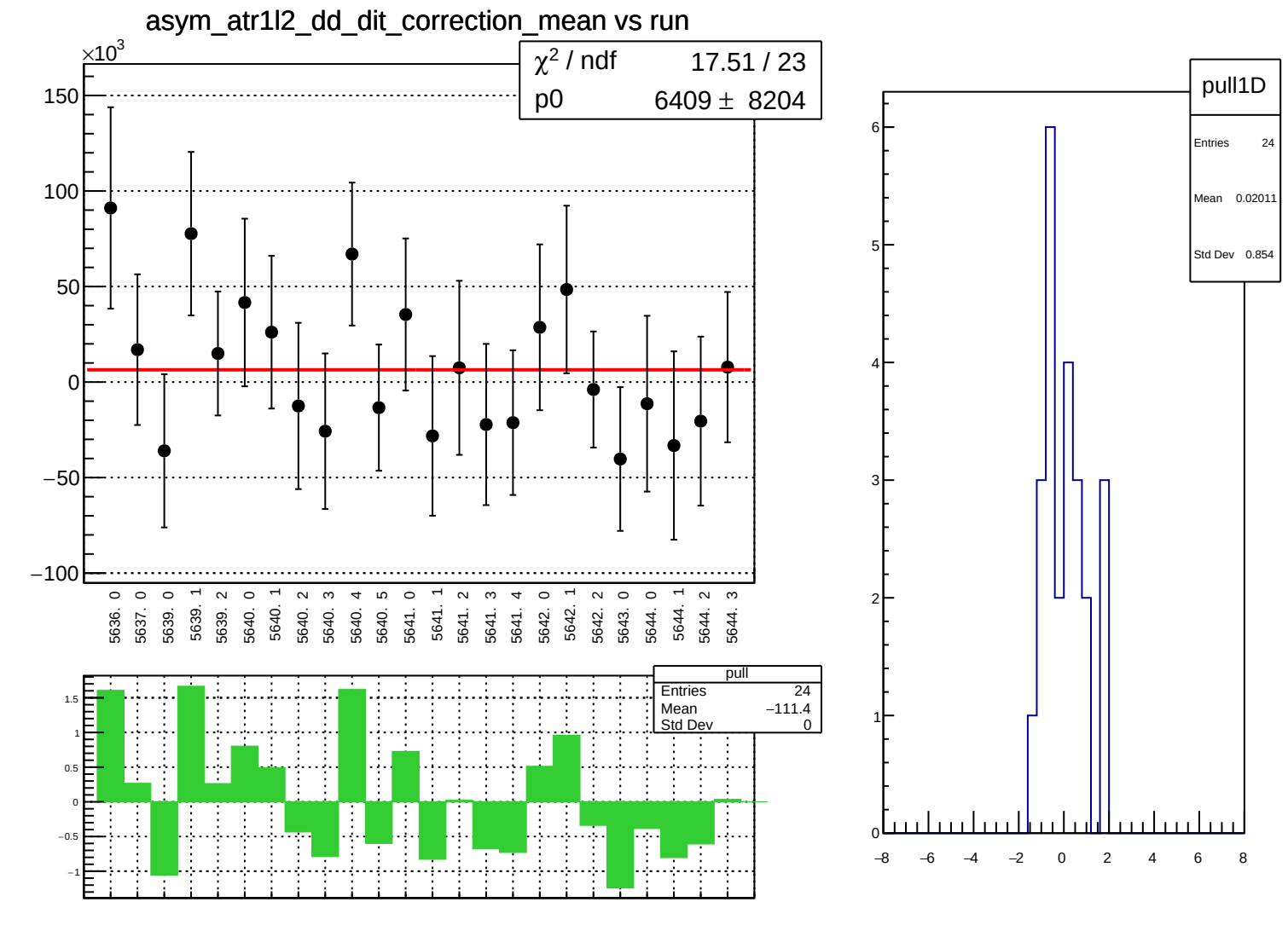
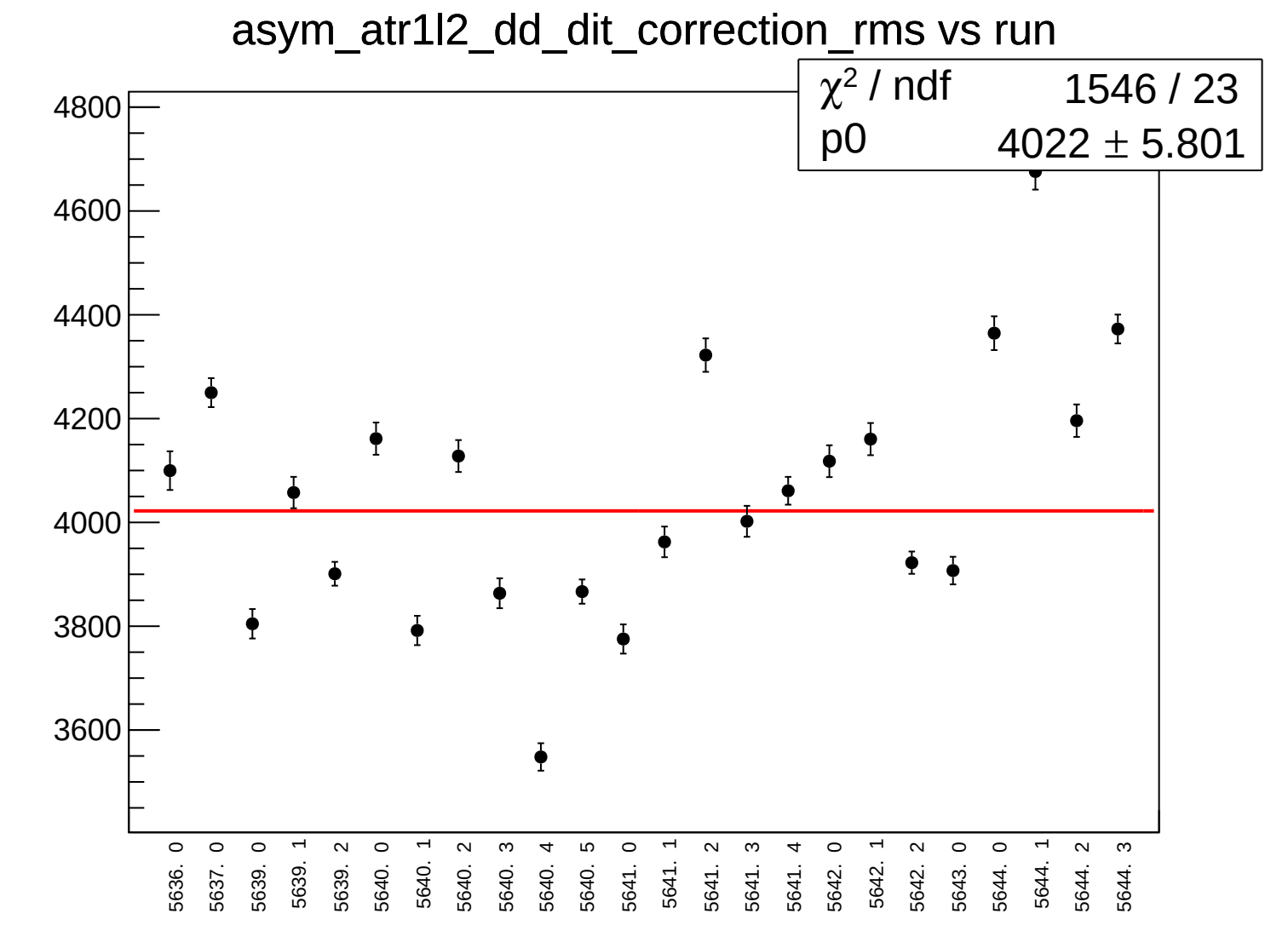
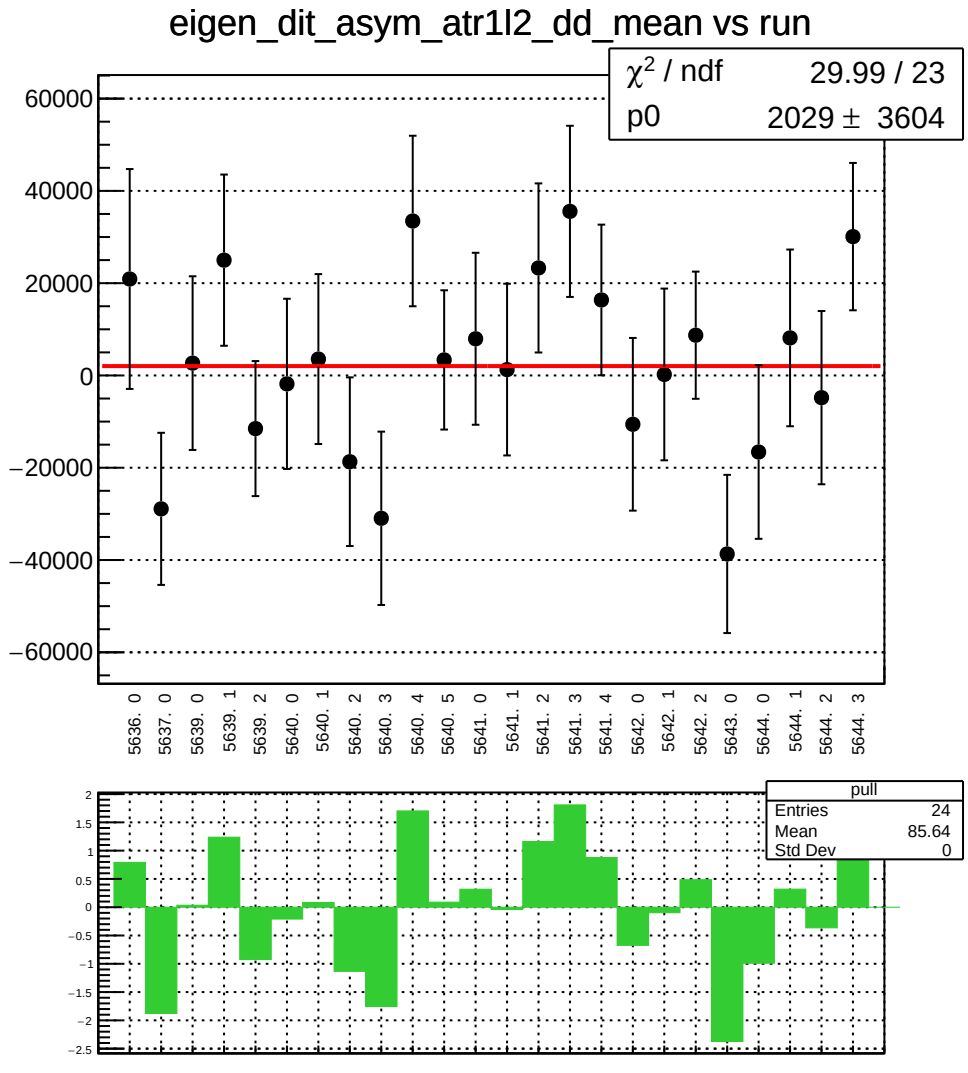
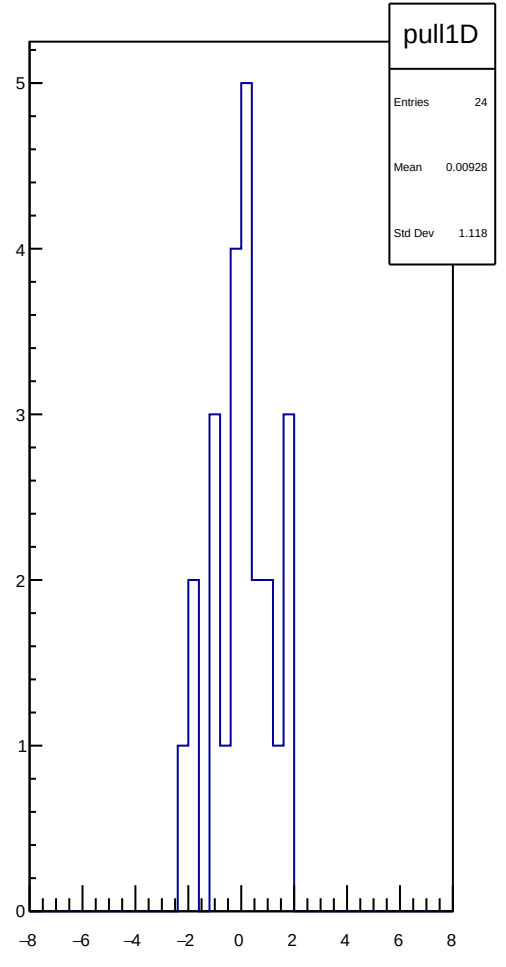
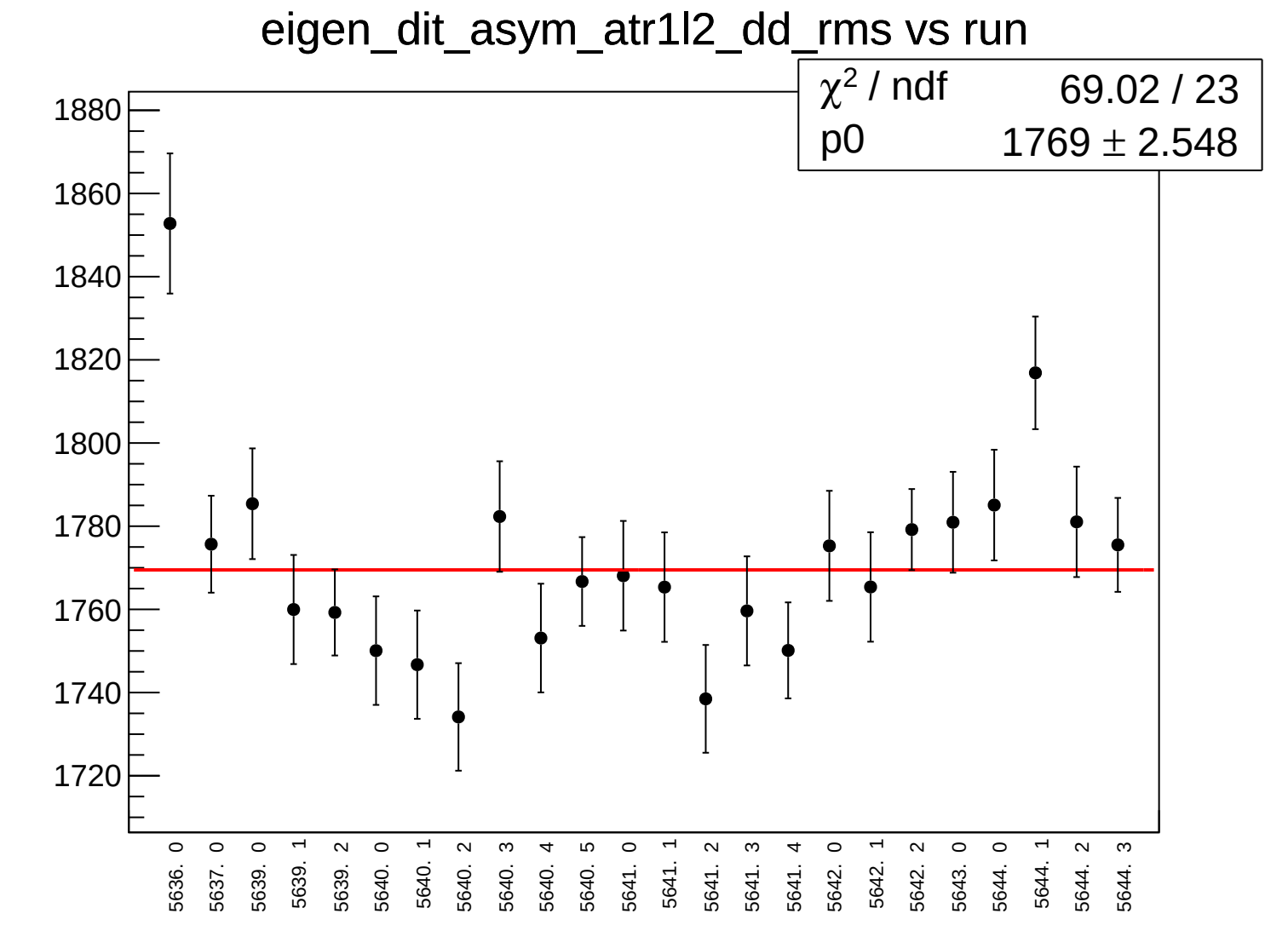
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 17.51 / 23
p0 6409 ± 8204
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −111.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.02011
Std Dev 0.854
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 1546 / 23
p0 4022 ± 5.801
4800
4600
4400
4200
4000
3800
3600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 29.99 / 23
p0 2029 ± 3604
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 85.64
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 24
Mean 0.00928
Std Dev 1.118
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 69.02 / 23
p0 1769 ± 2.548
1880
1860
1840
1820
1800
1780
1760
1740
1720
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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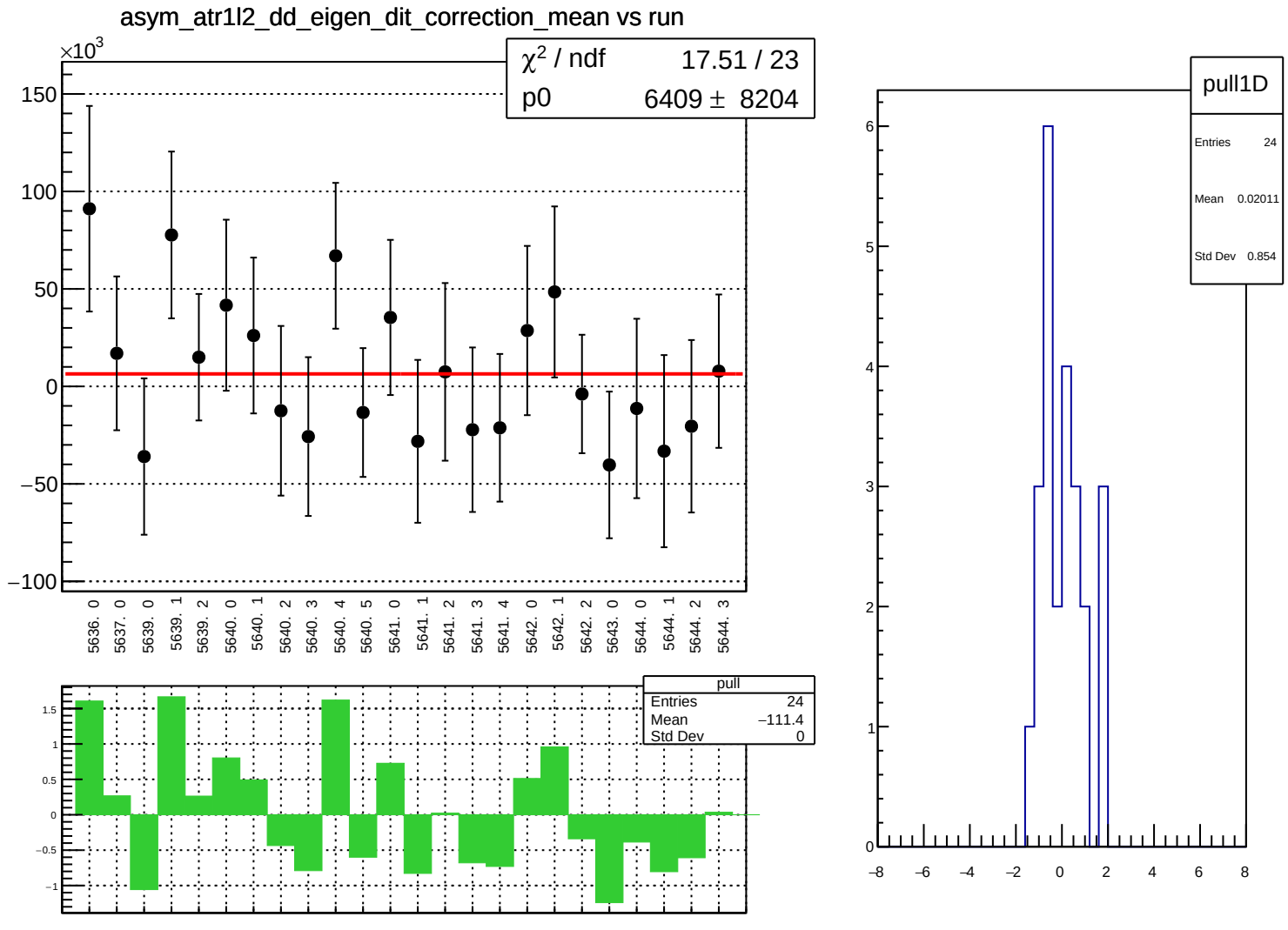
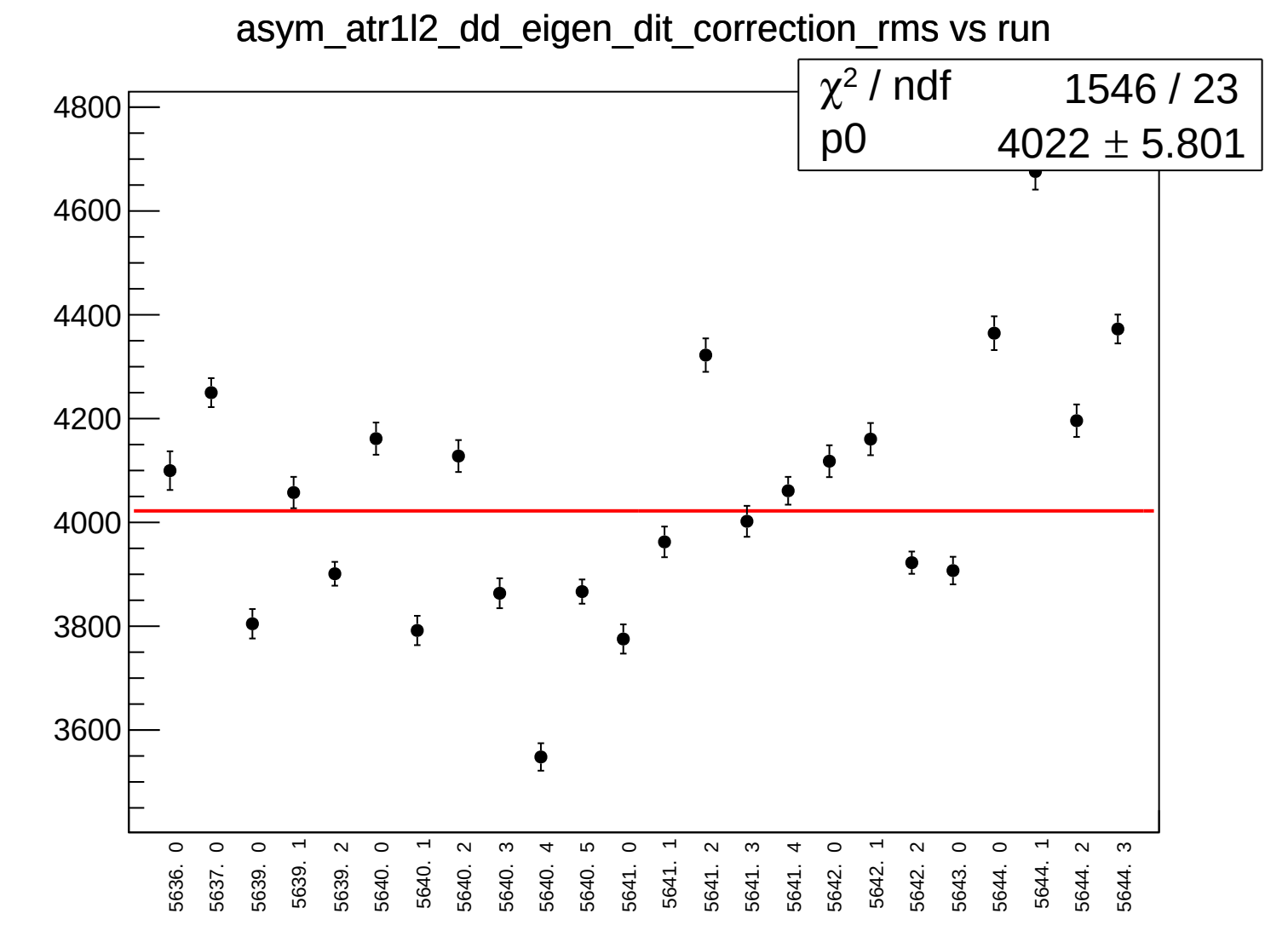
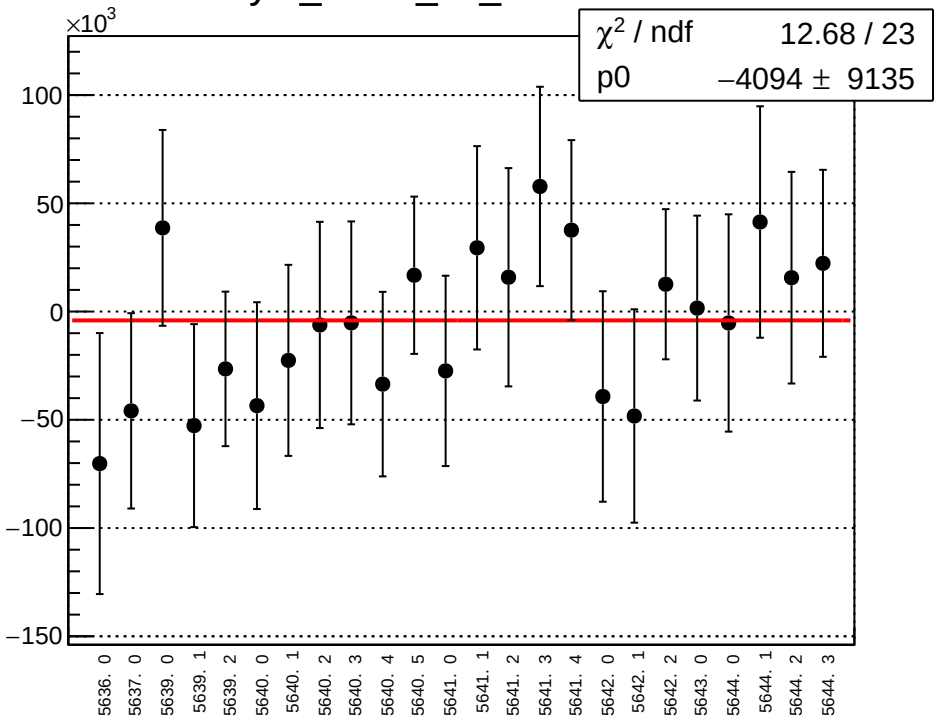
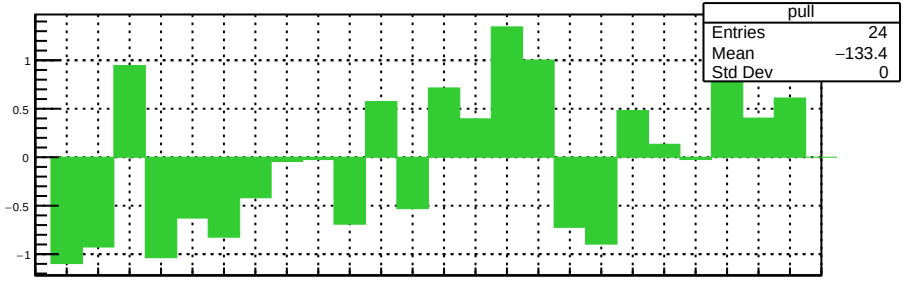
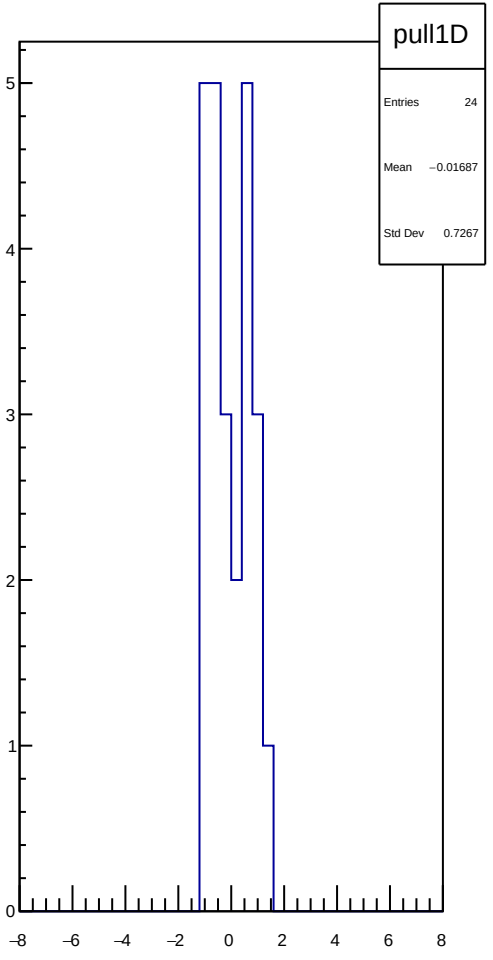
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

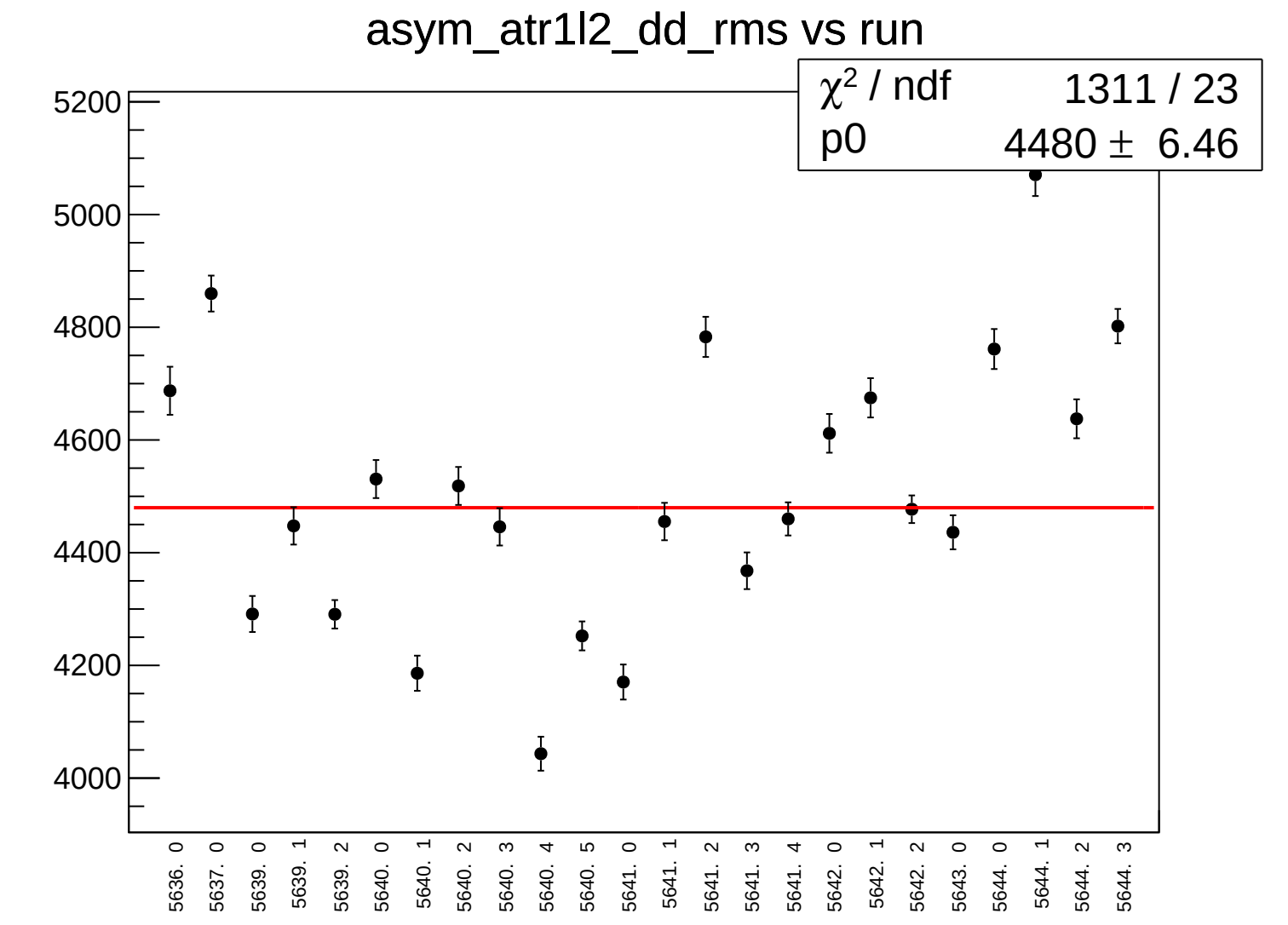

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 17.51 / 23
p0 6409 ± 8204
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −111.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.02011
Std Dev 0.854
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

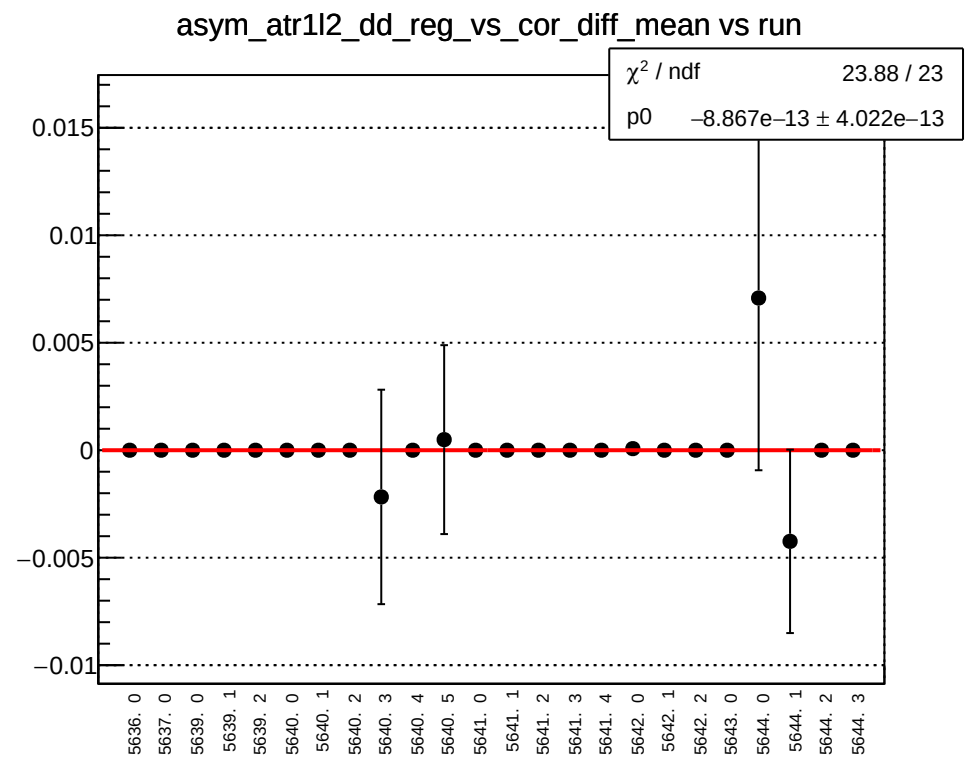

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1546 / 23
p0 4022 ± 5.801
4800
4600
4400
4200
4000
3800
3600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

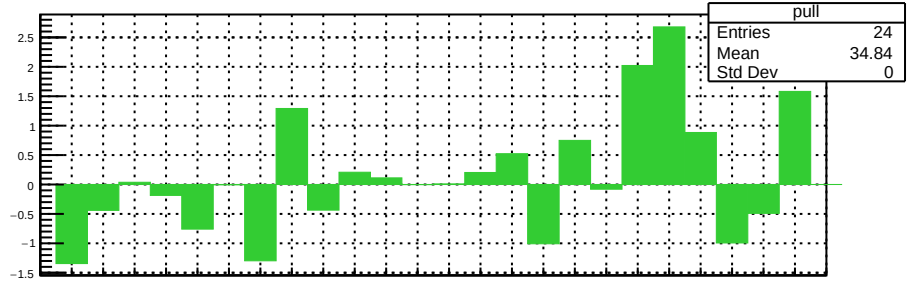

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 12.68 / 23
p0 −4094 ± 9135
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

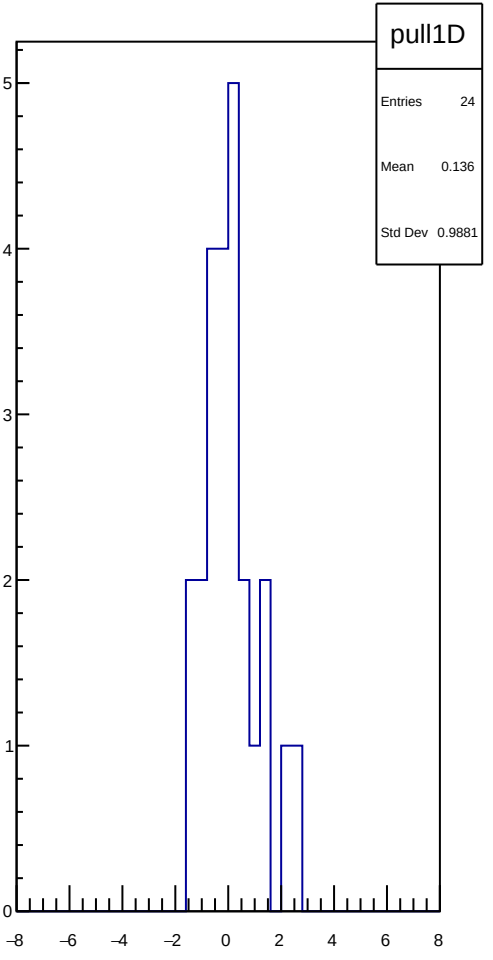

pull
Entries 24
Mean −133.4
Std Dev 0
1
0.5
0
−0.5
−1

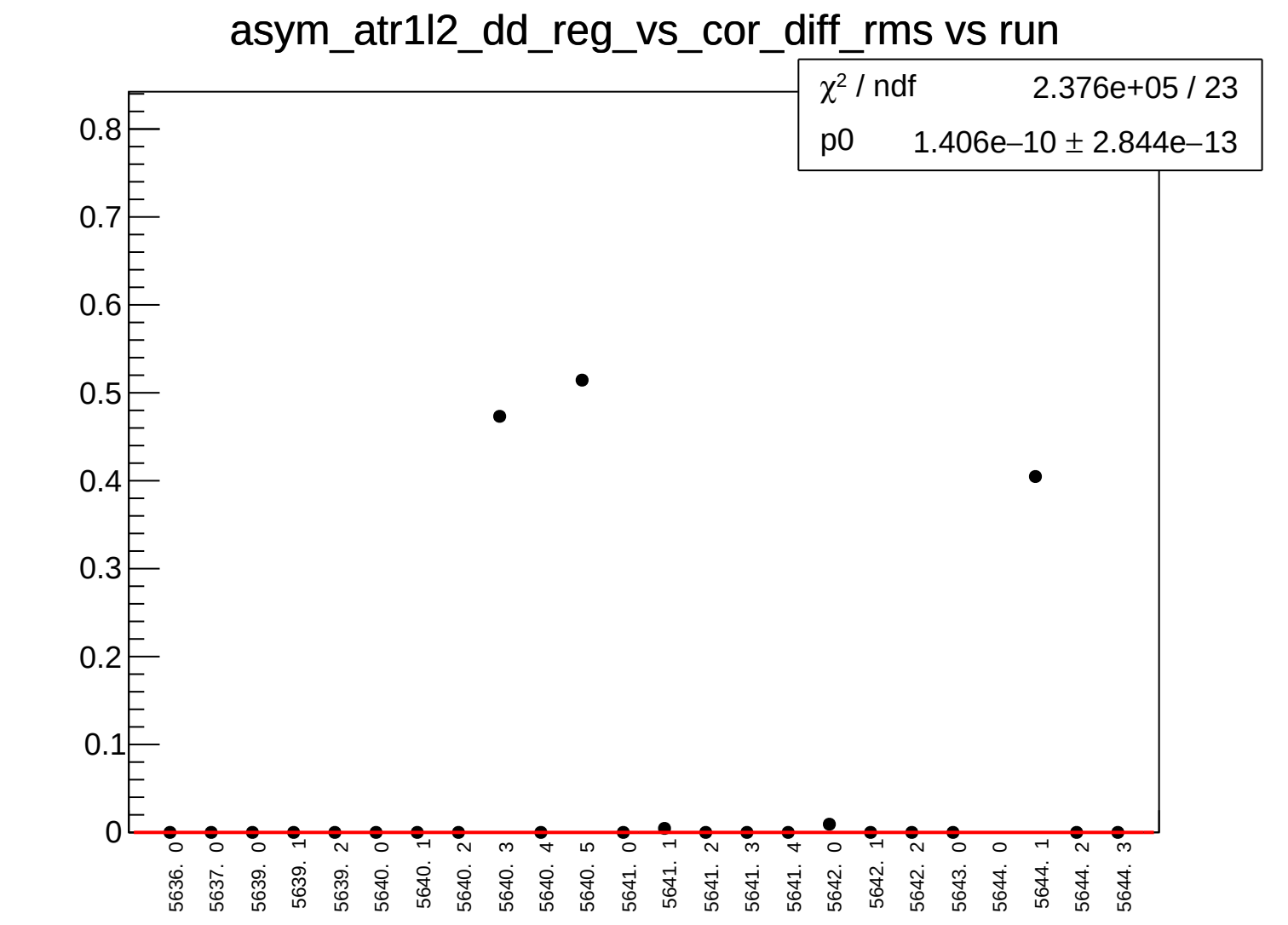

pull1D
Entries 24
Mean −0.01687
Std Dev 0.7267
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

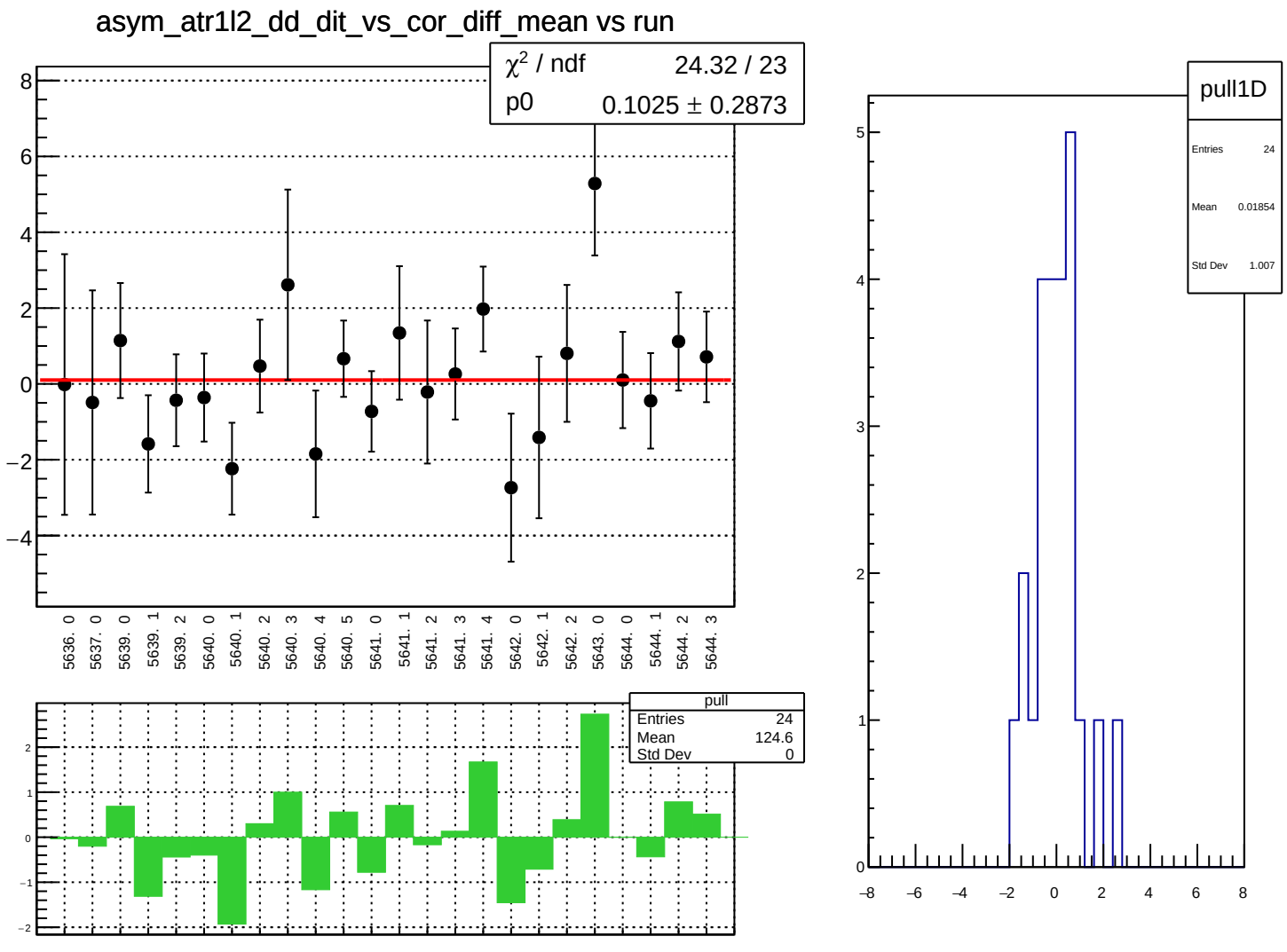

asym_atr1l2_dd_rms vs run
χ² / ndf 1311 / 23
p0 4480 ± 6.46
5200
5000
4800
4600
4400
4200
4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

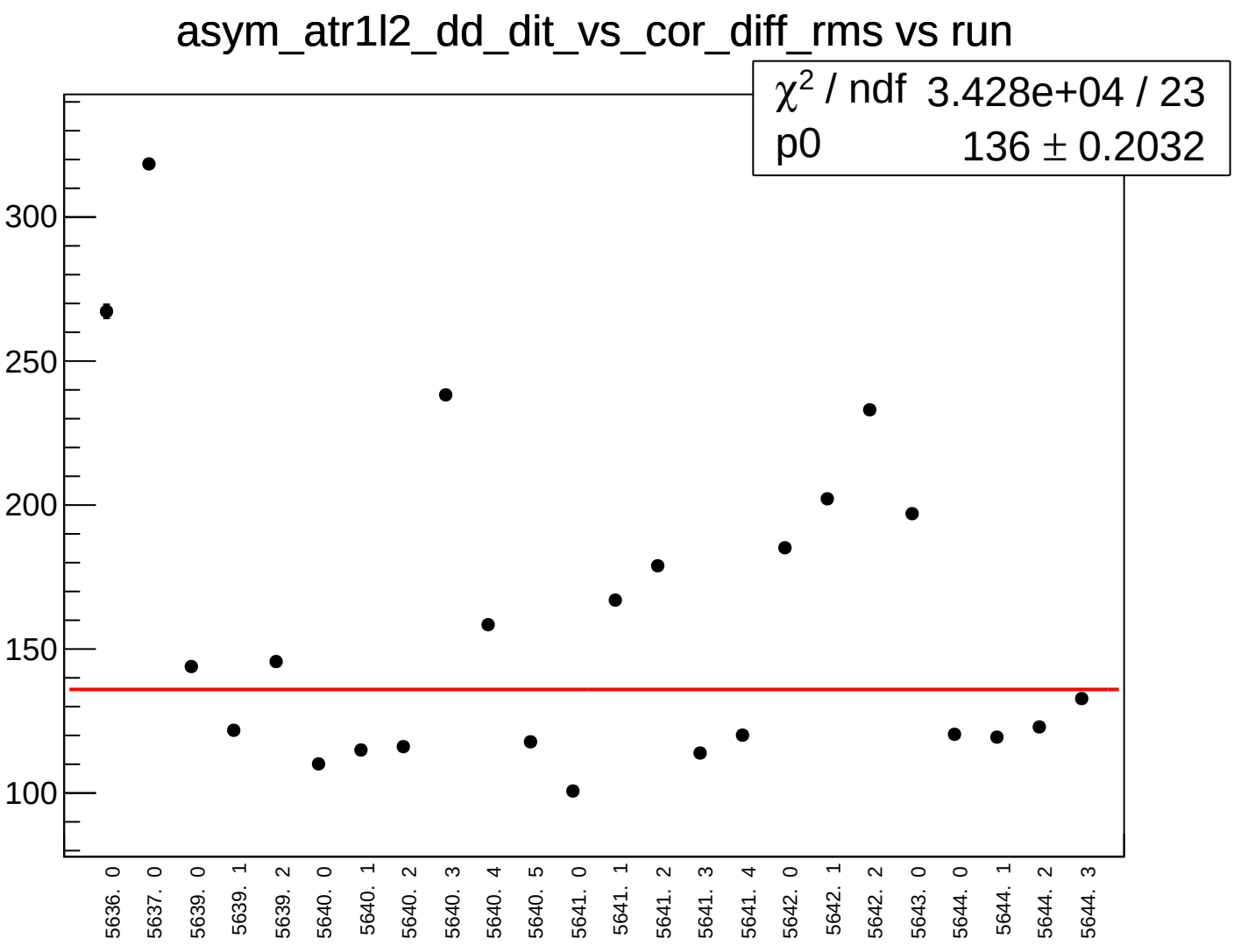

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 23.88 / 23
p0 −8.867e−13 ± 4.022e−13
0.015
0.01
0.005
0
−0.005
−0.01
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

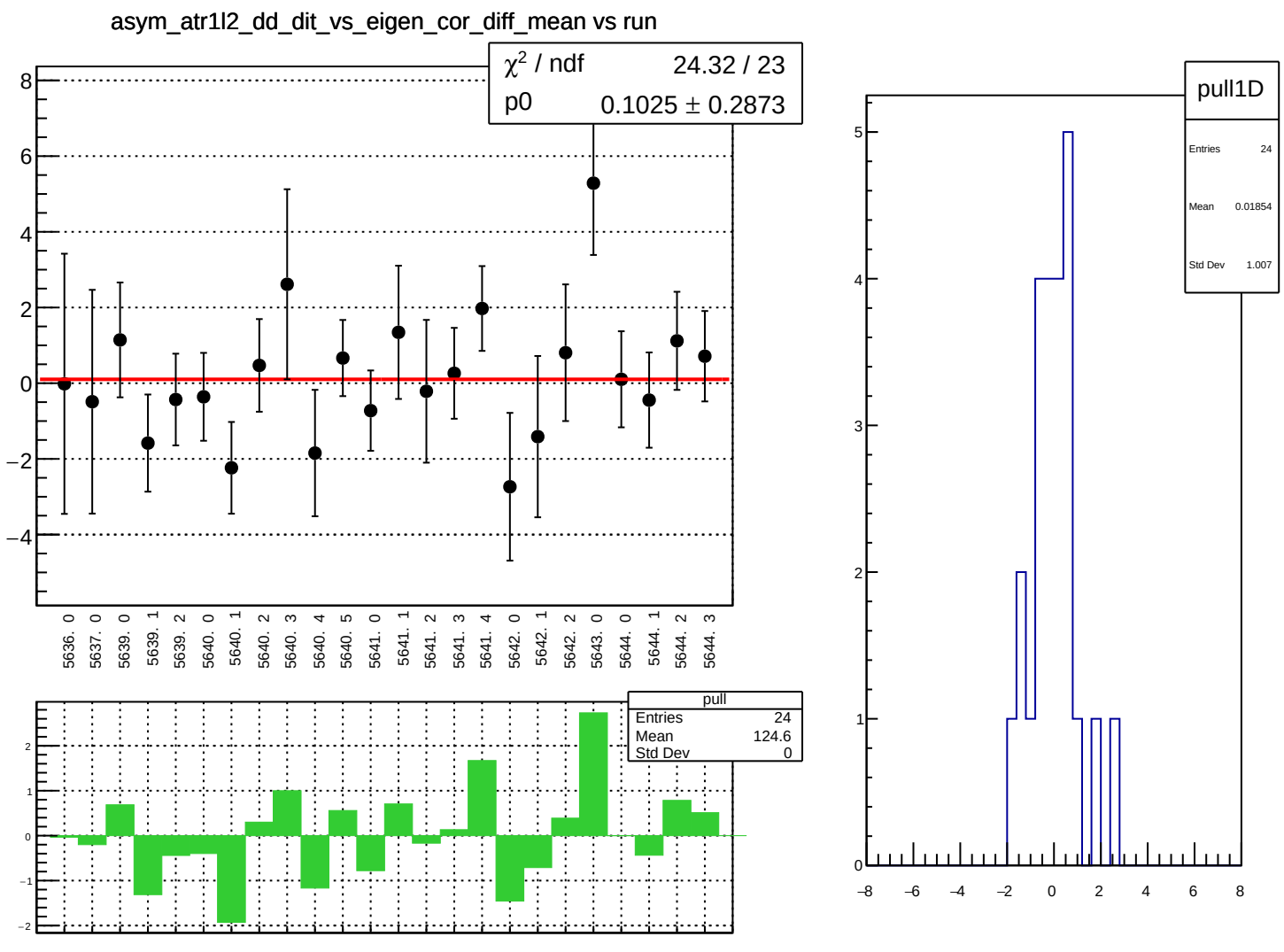

pull
Entries 24
Mean 34.84
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

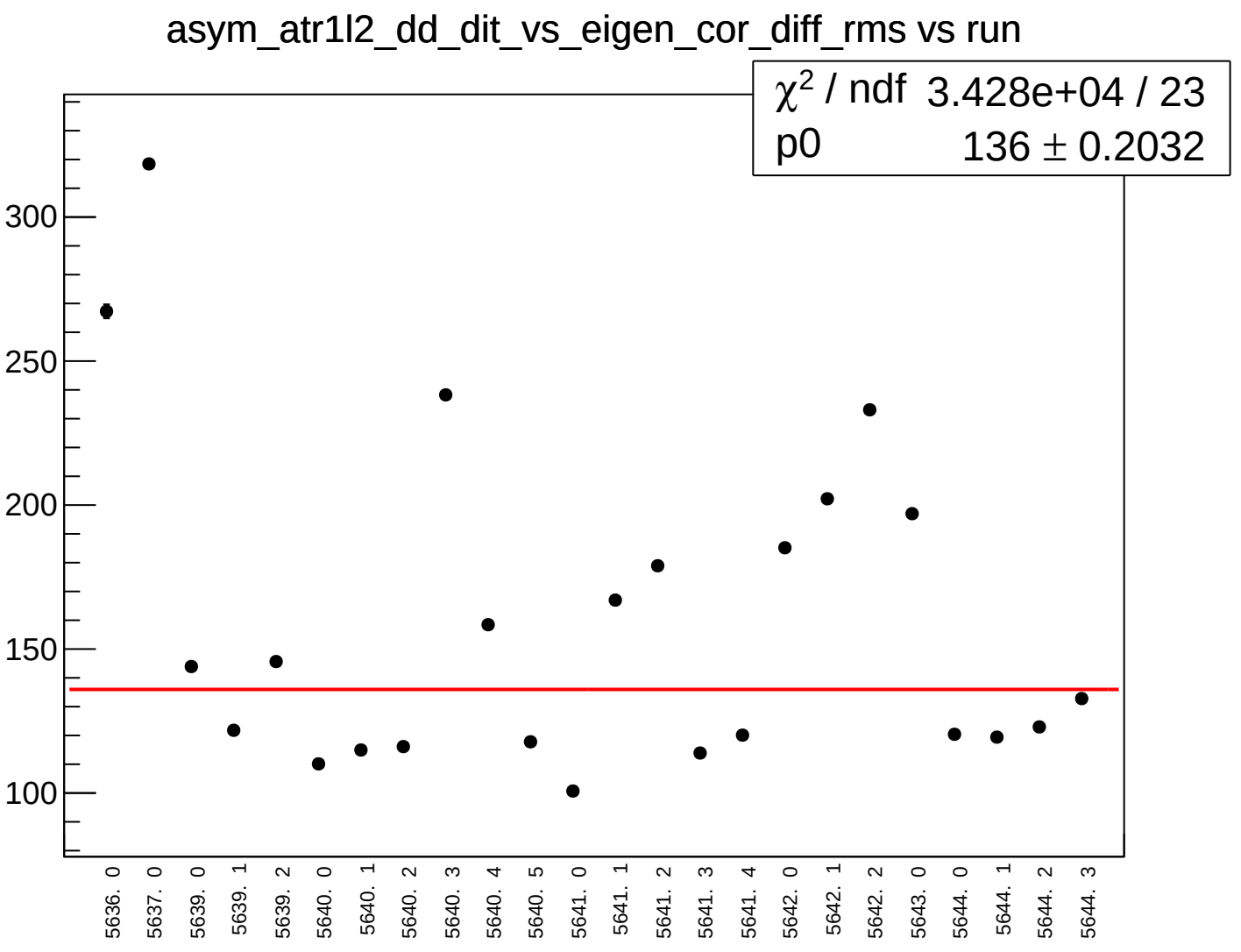

pull1D
Entries 24
Mean 0.136
Std Dev 0.9881
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

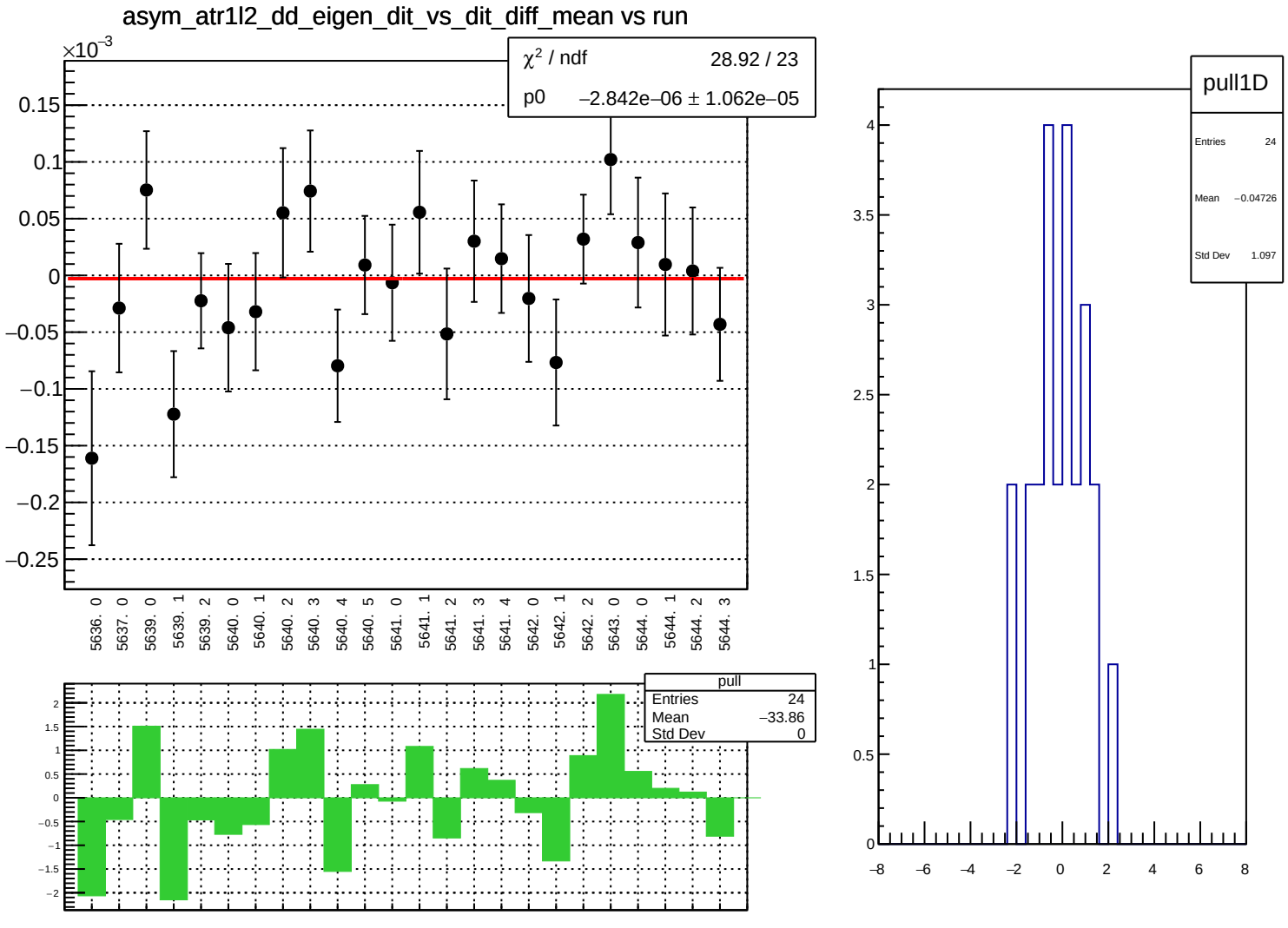

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.376e+05 / 23
p0 1.406e−10 ± 2.844e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

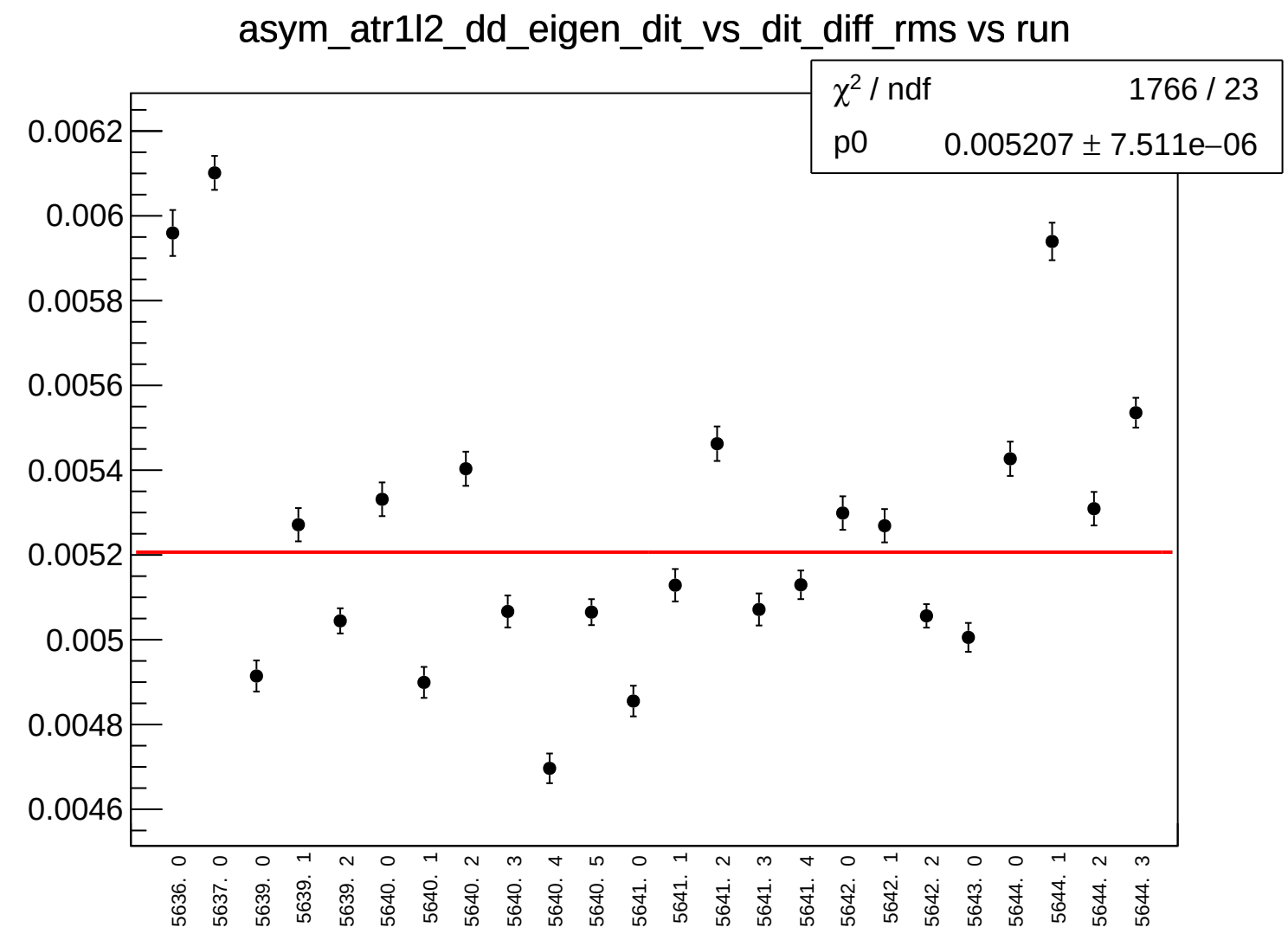

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 24.32 / 23
p0 0.1025 ± 0.2873
8
6
4
2
0
−2
−4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 124.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 24
Mean 0.01854
Std Dev 1.007
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

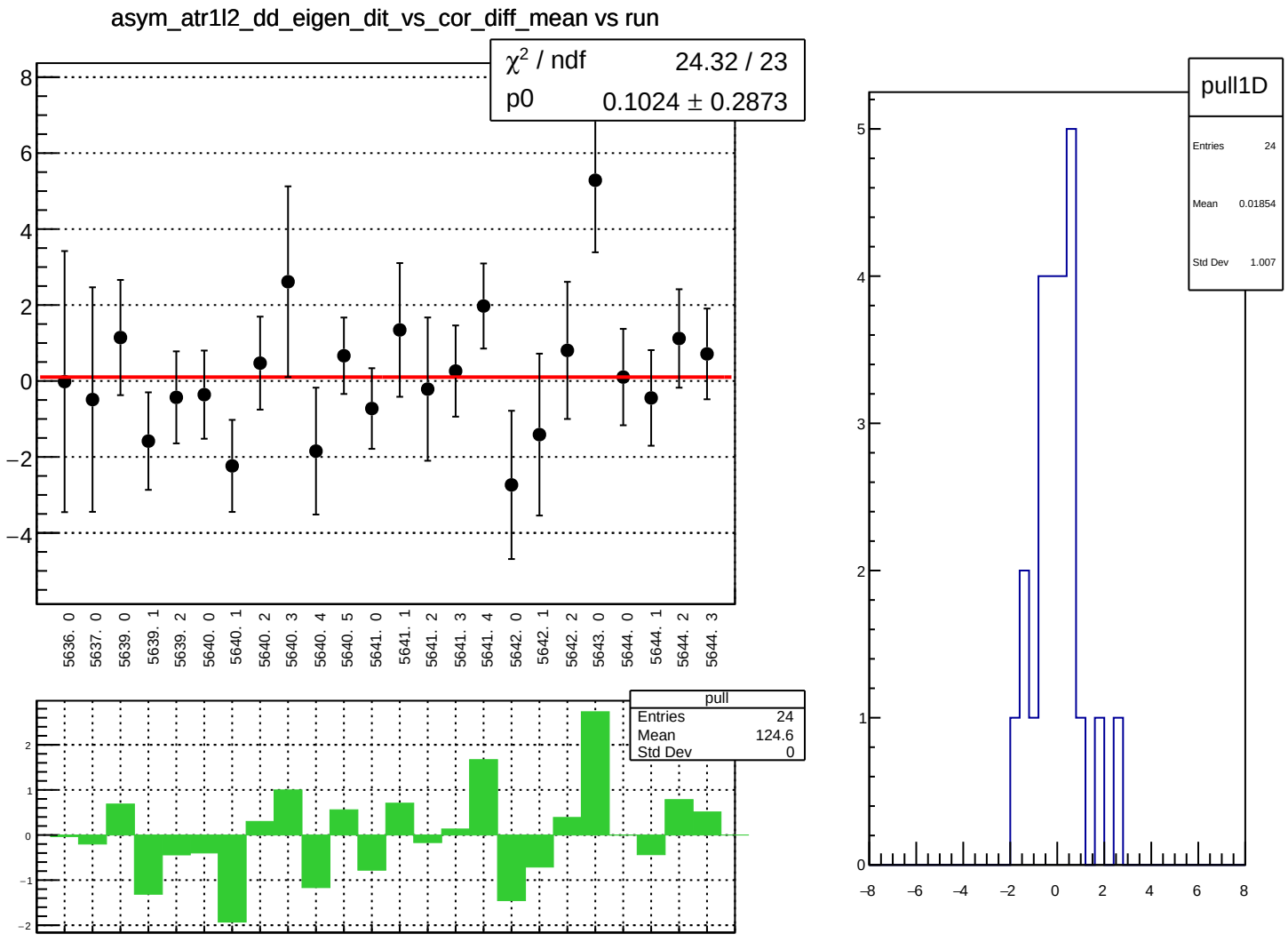

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.428e+04 / 23
p0 136 ± 0.2032
300
250
200
150
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

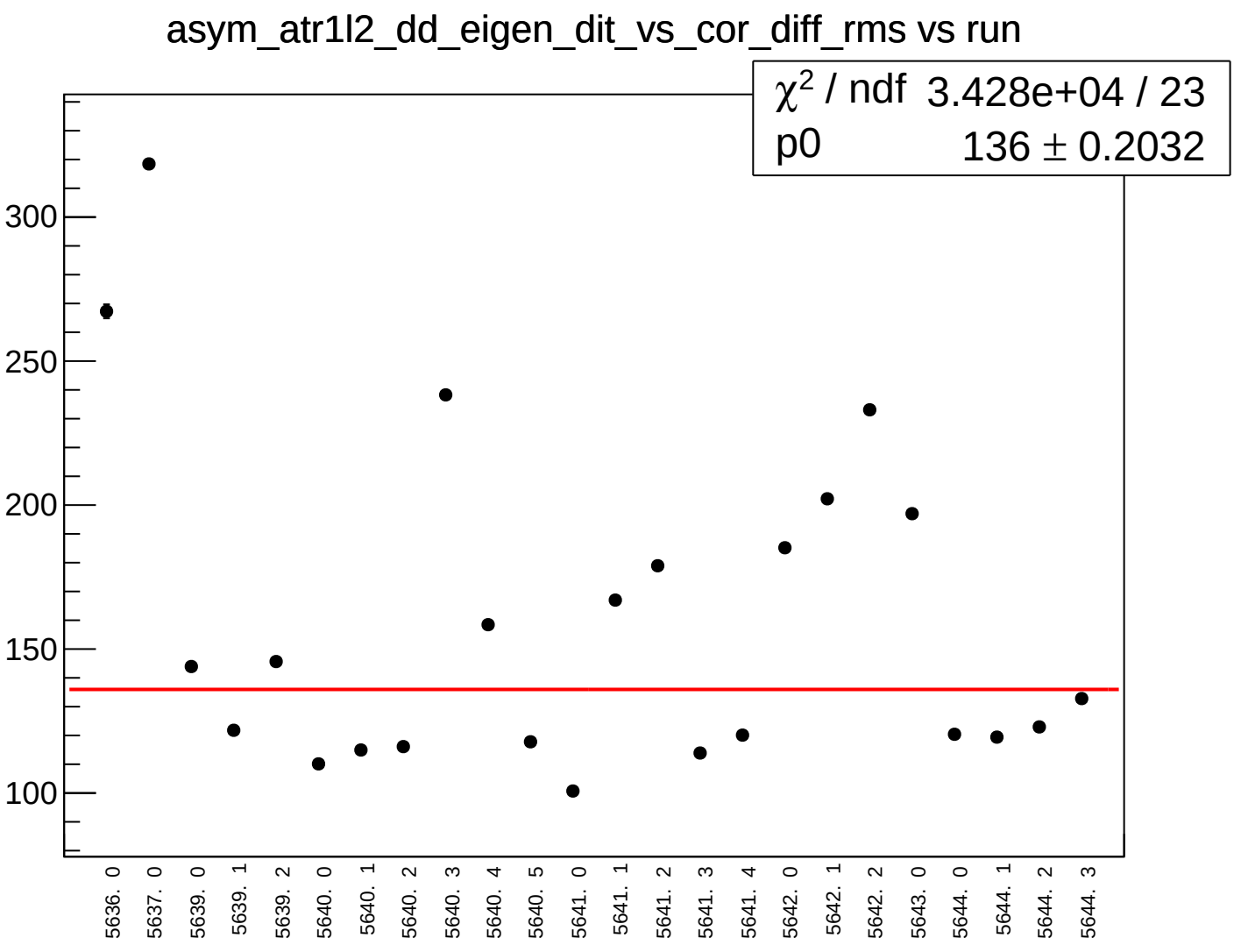

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.32 / 23
p0 0.1025 ± 0.2873
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 124.6
Std Dev 0
pull1D
Entries 24
Mean 0.01854
Std Dev 1.007

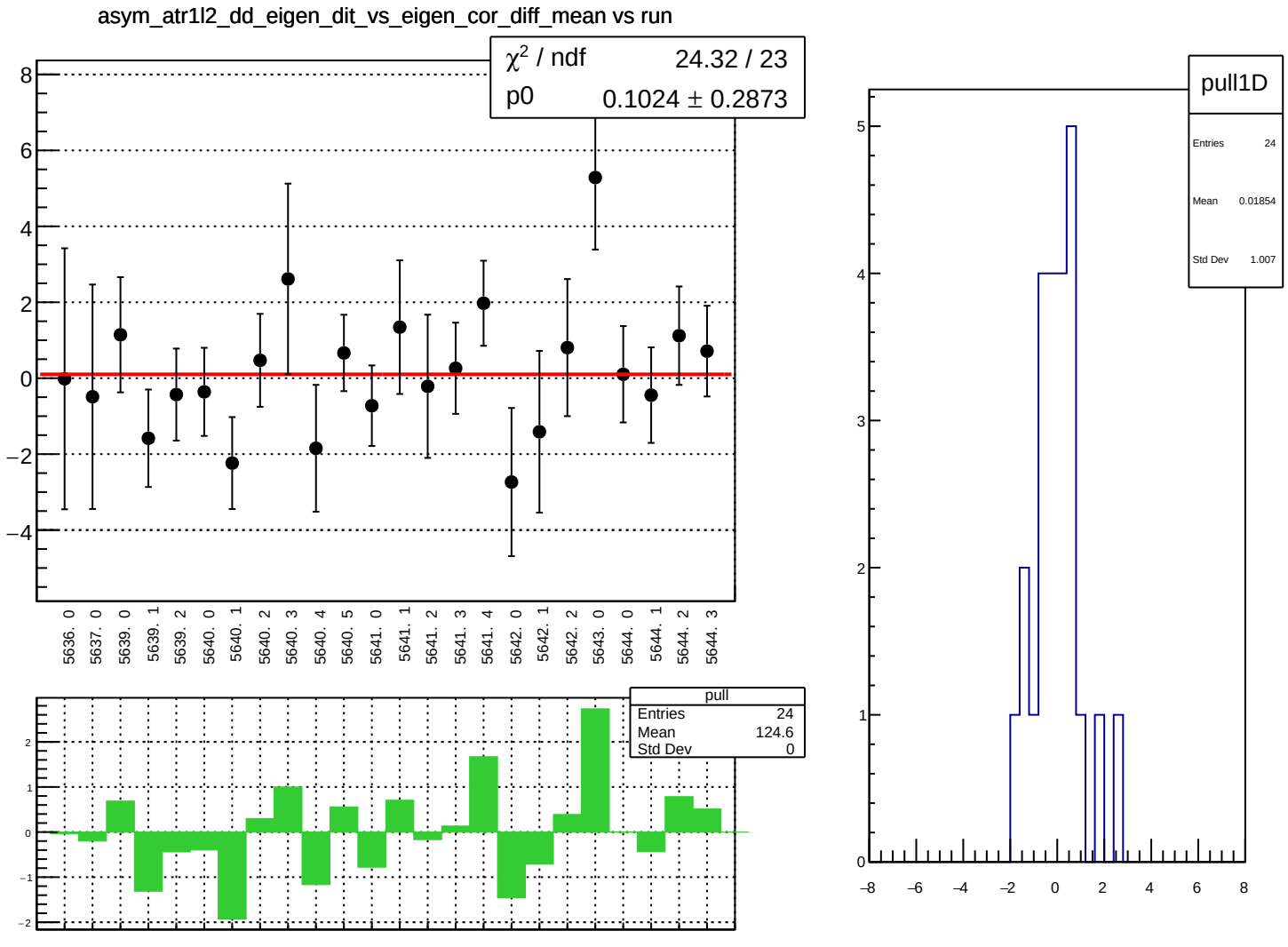

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.428e+04 / 23
p0 136 ± 0.2032
300
250
200
150
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

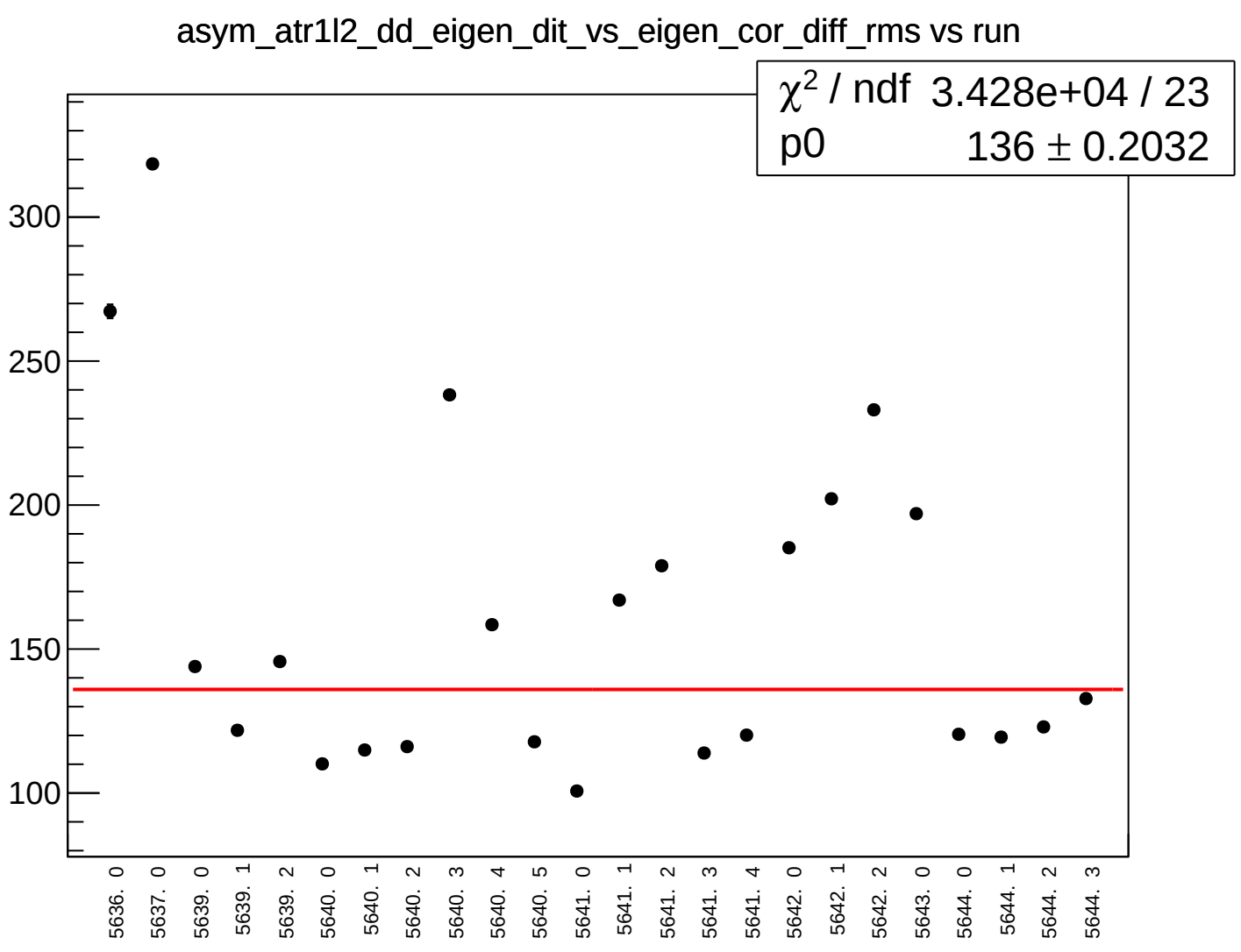

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 28.92 / 23
p0 −2.842e−06 ± 1.062e−05
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −33.86
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.04726
Std Dev 1.097
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

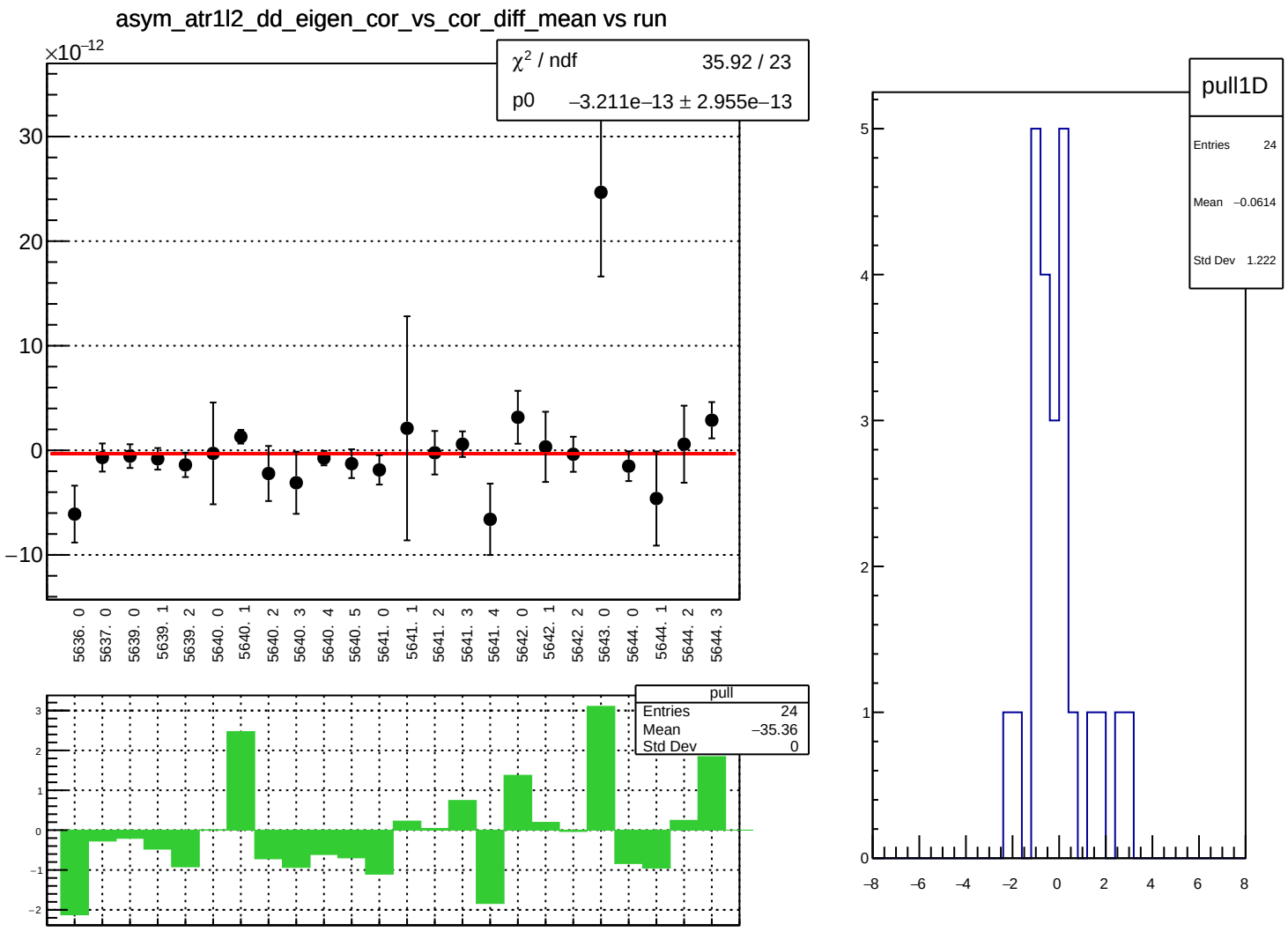

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1766 / 23
p0 0.005207 ± 7.511e−06
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

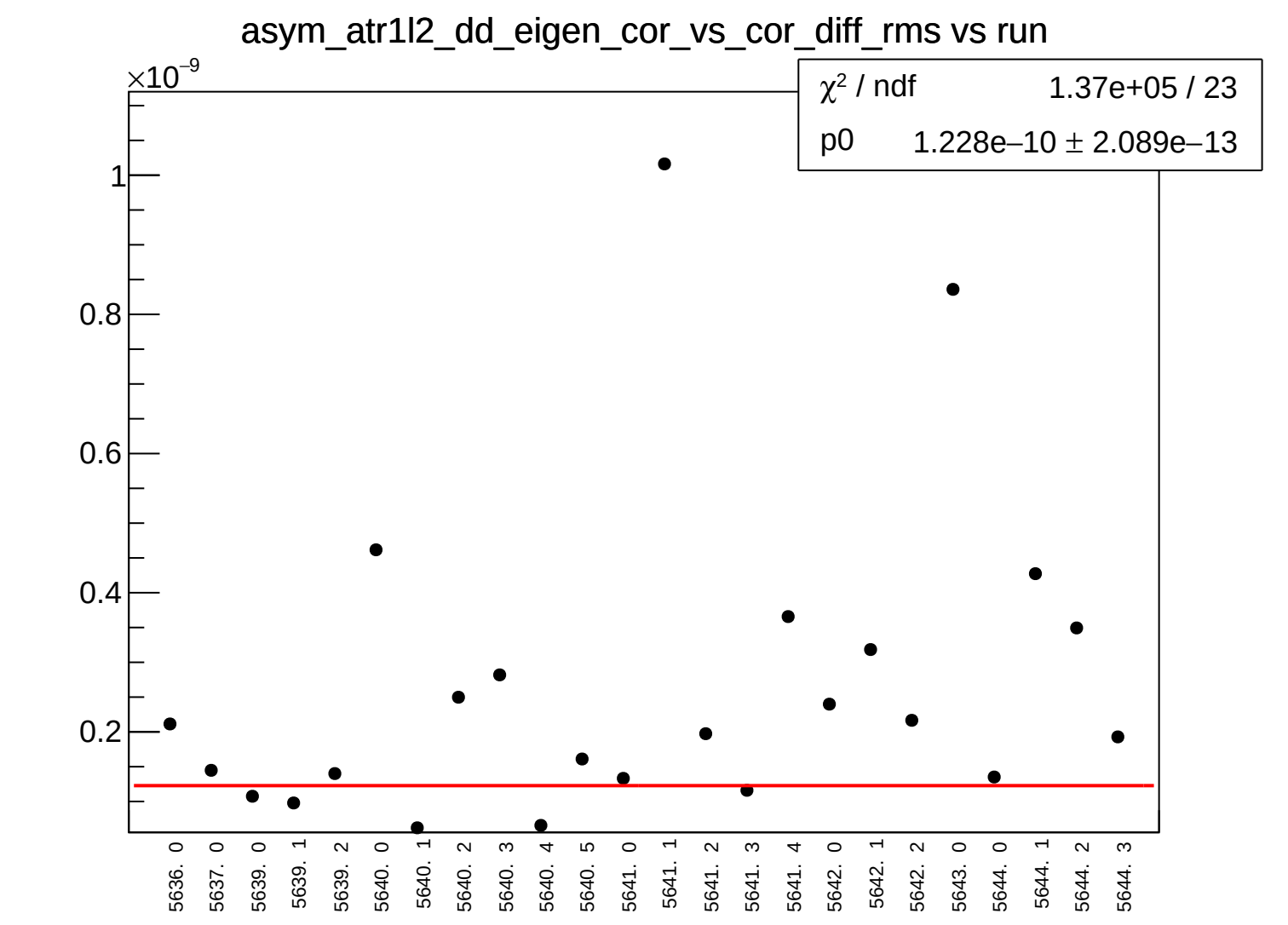

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 24.32 / 23
p0 0.1024 ± 0.2873
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 124.6
Std Dev 0
pull1D
Entries 24
Mean 0.01854
Std Dev 1.007

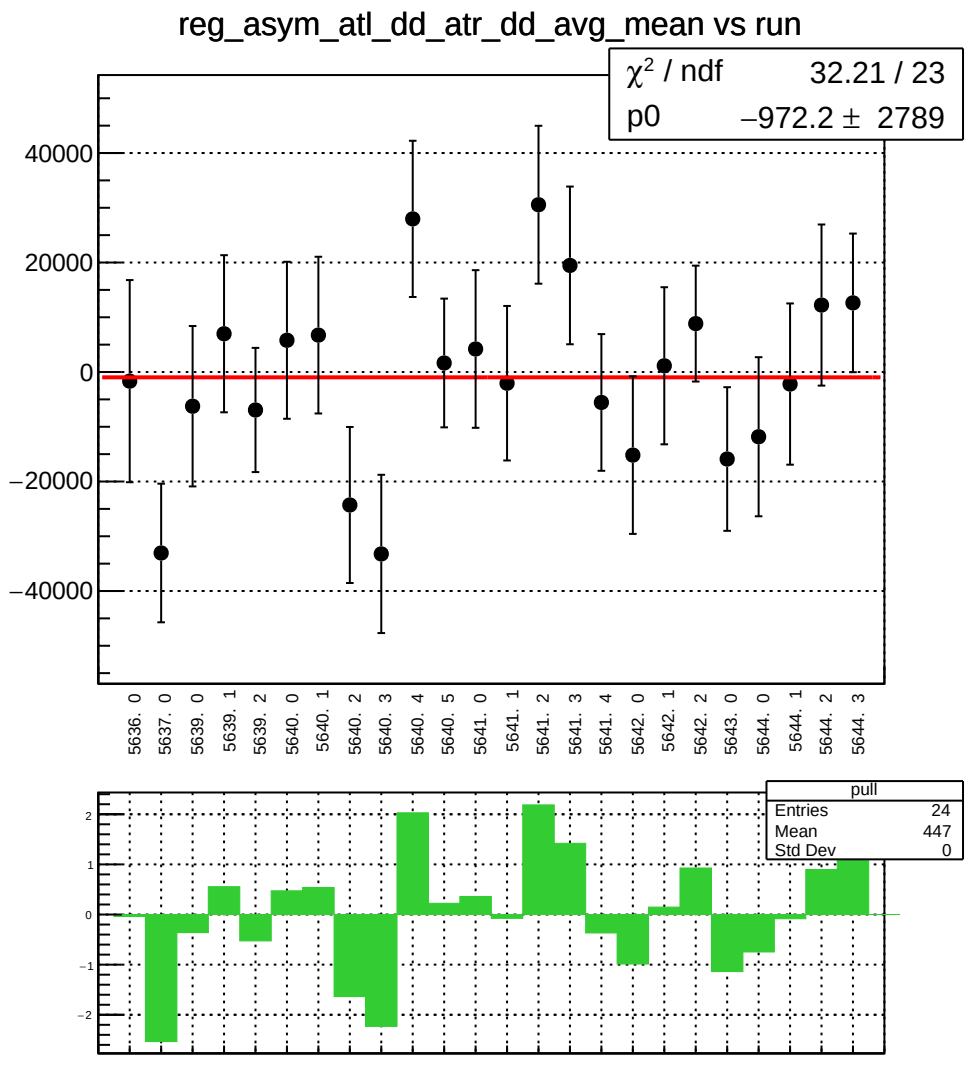

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.428e+04 / 23
p0 136 ± 0.2032
300
250
200
150
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

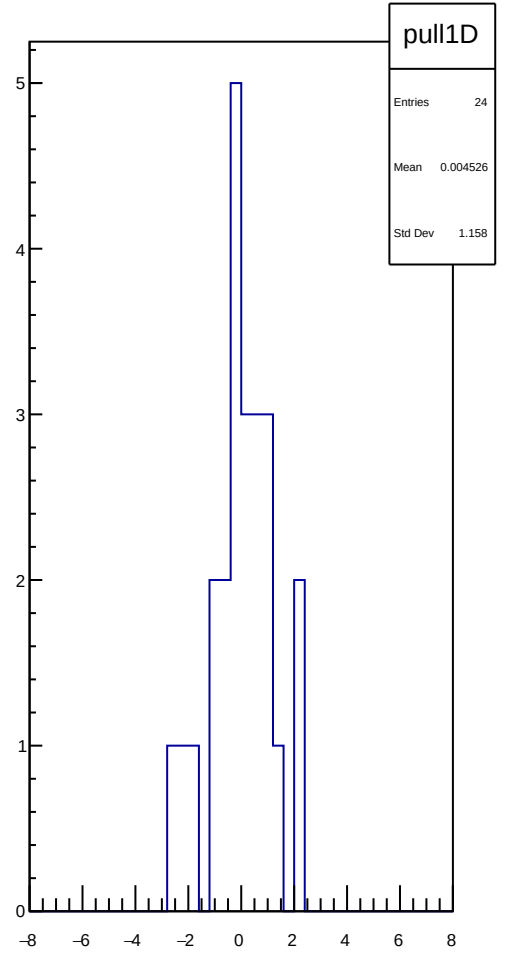

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.32 / 23
p0 0.1024 ± 0.2873
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 124.6
Std Dev 0
pull1D
Entries 24
Mean 0.01854
Std Dev 1.007

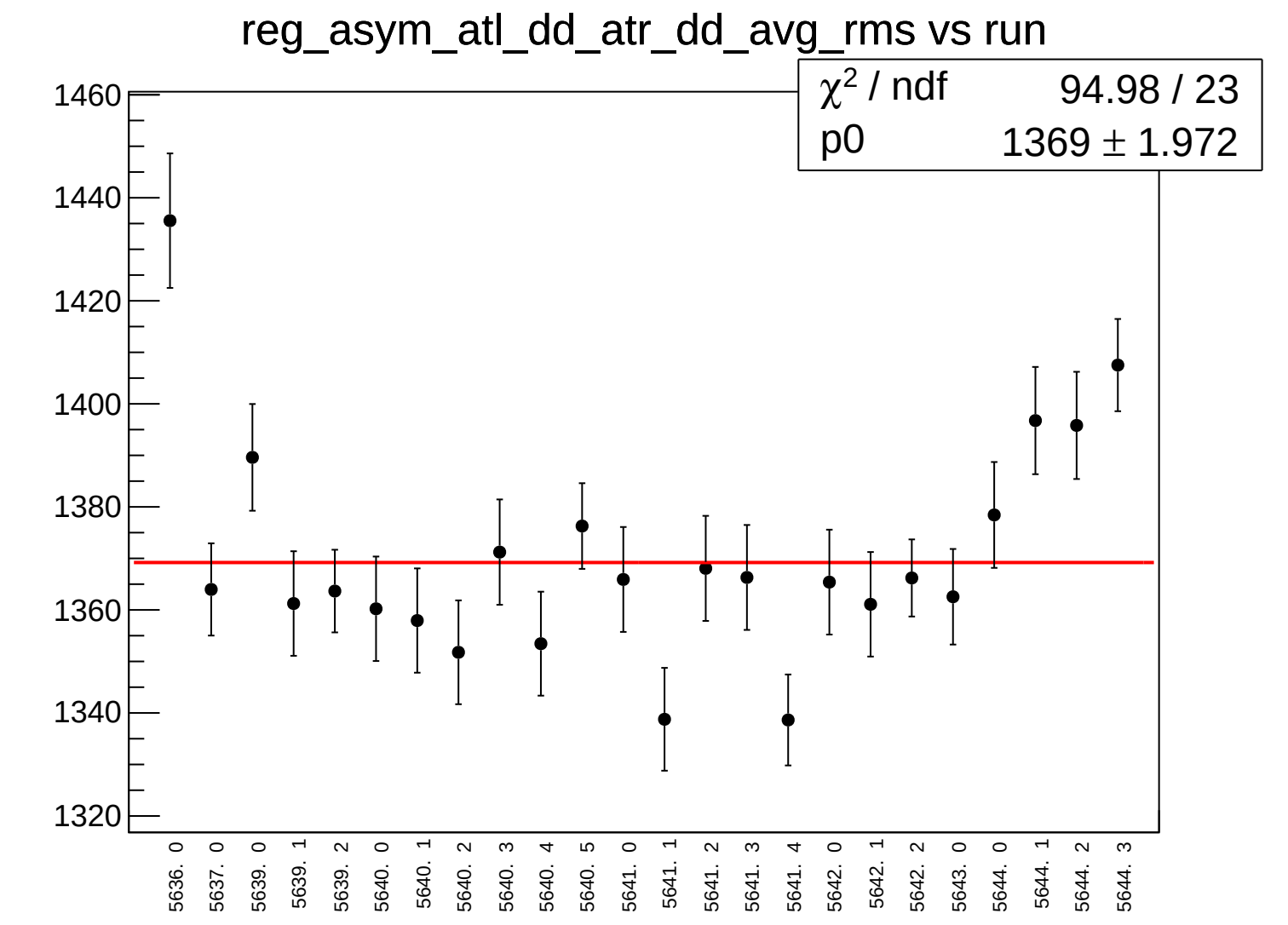

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.428e+04 / 23
p0 136 ± 0.2032
300
250
200
150
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

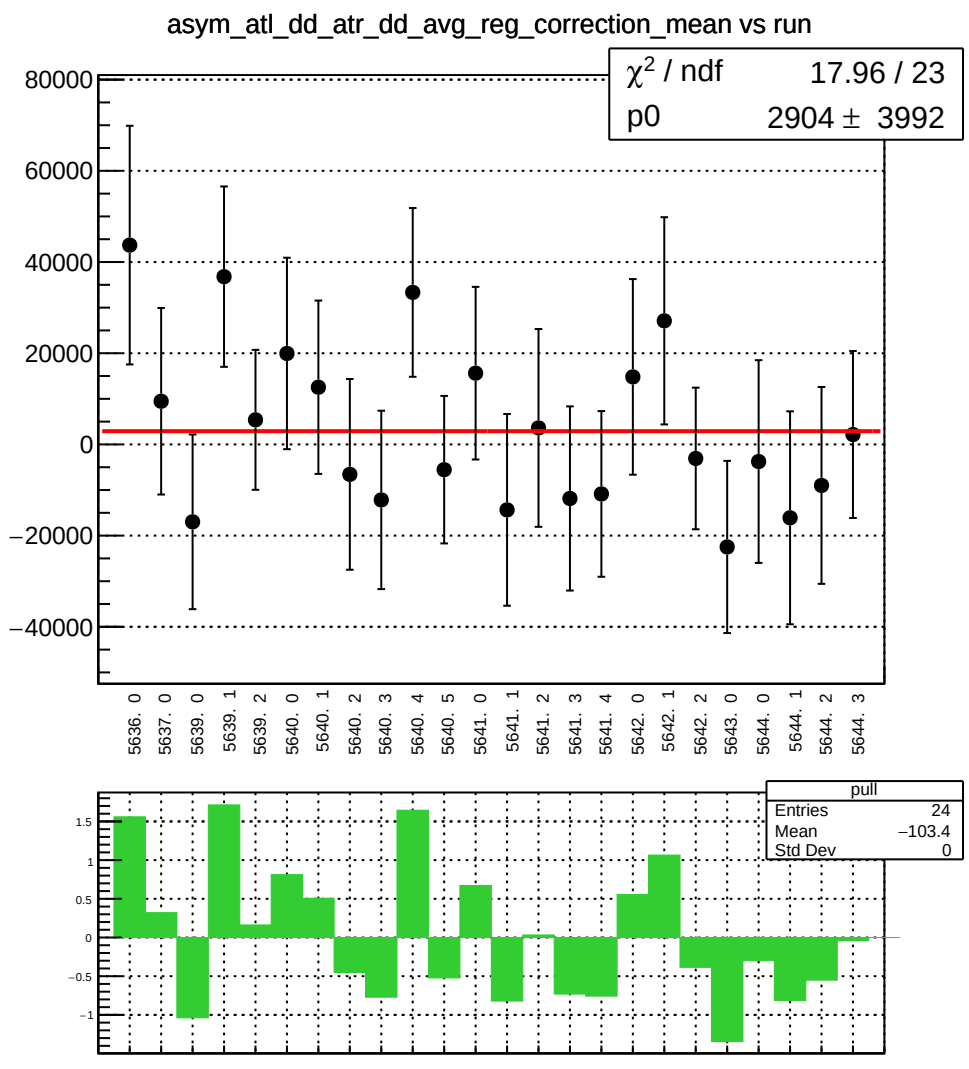

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 35.92 / 23
p0 −3.211e−13 ± 2.955e−13
30
20
10
0
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −35.36
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 24
Mean −0.0614
Std Dev 1.222
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

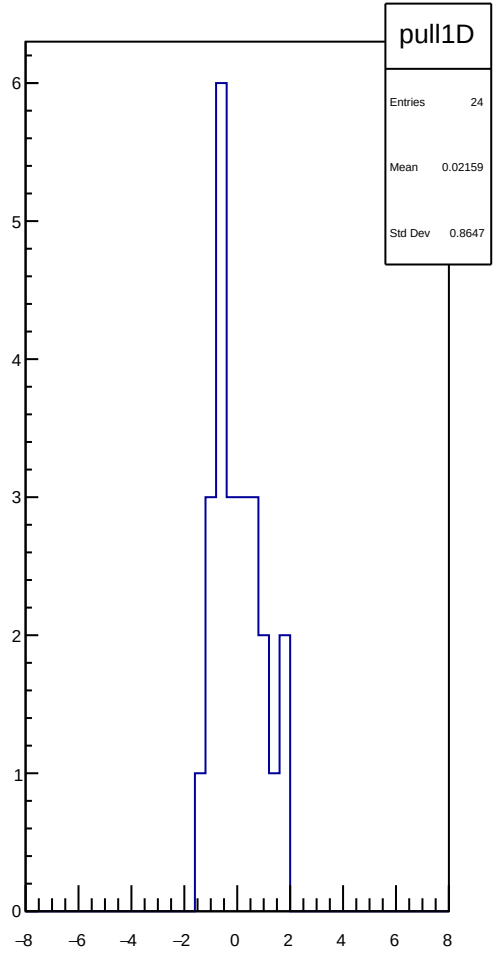

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.37e+05 / 23
p0 1.228e−10 ± 2.089e−13
1
0.8
0.6
0.4
0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

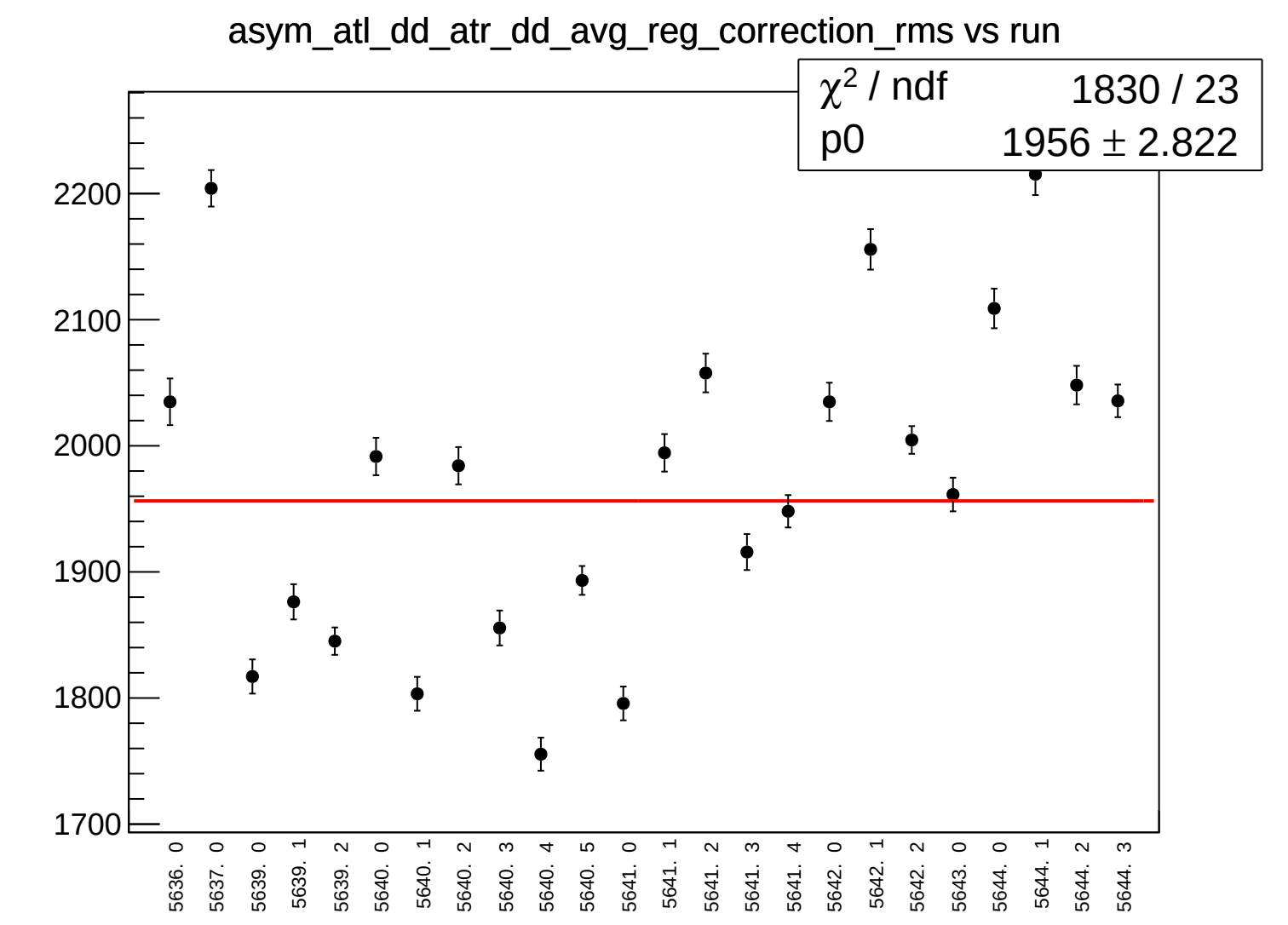

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 32.21 / 23
p0 −972.2 ± 2789
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 447
Std Dev 0
2
1
0
−1
−2

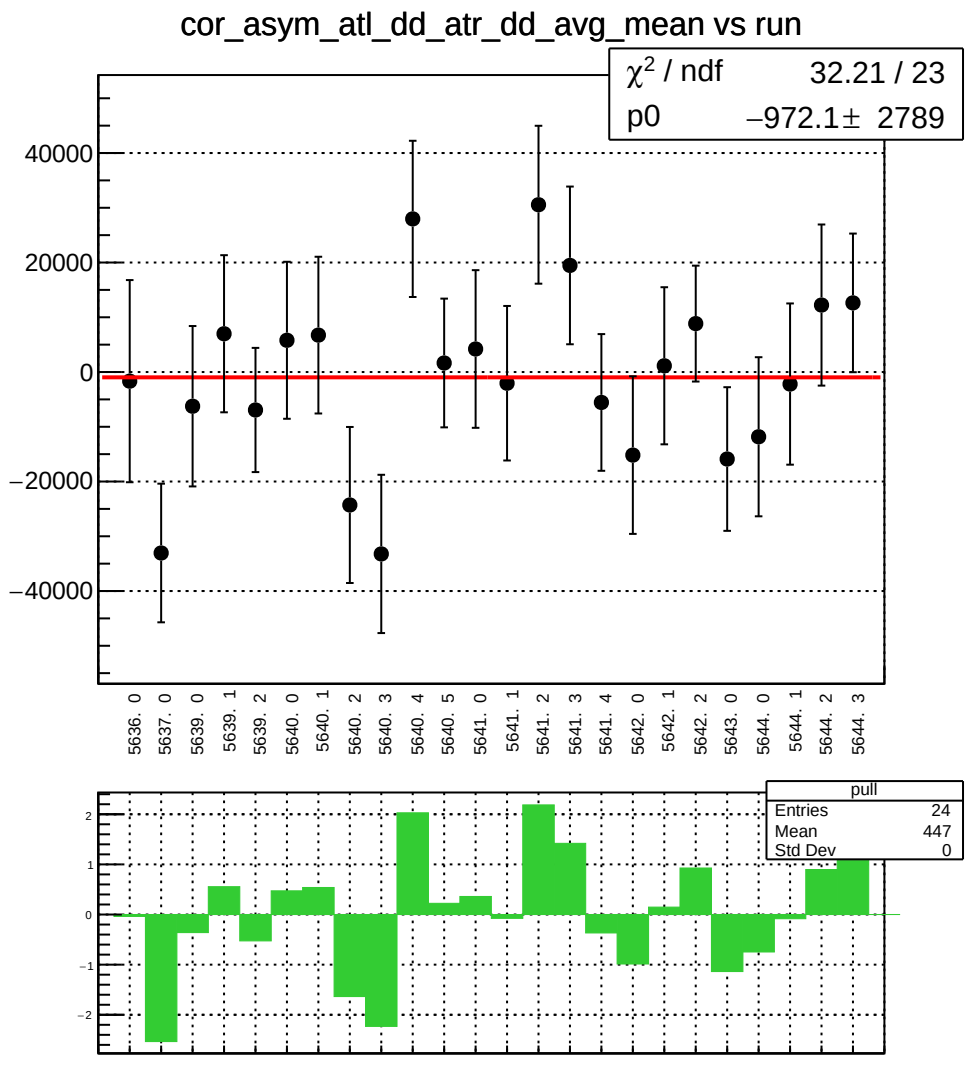

pull1D
Entries 24
Mean 0.004526
Std Dev 1.158
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

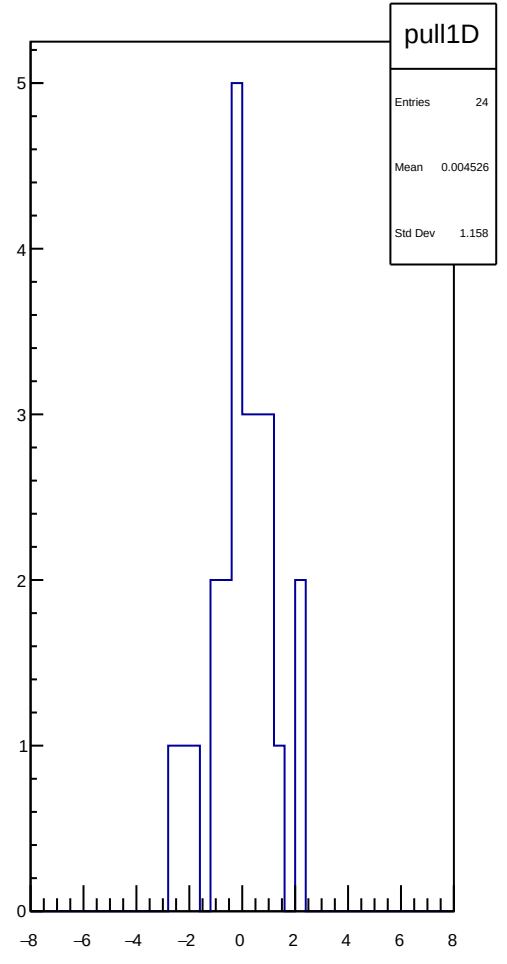

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 94.98 / 23
p0 1369 ± 1.972
1460
1440
1420
1400
1380
1360
1340
1320
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

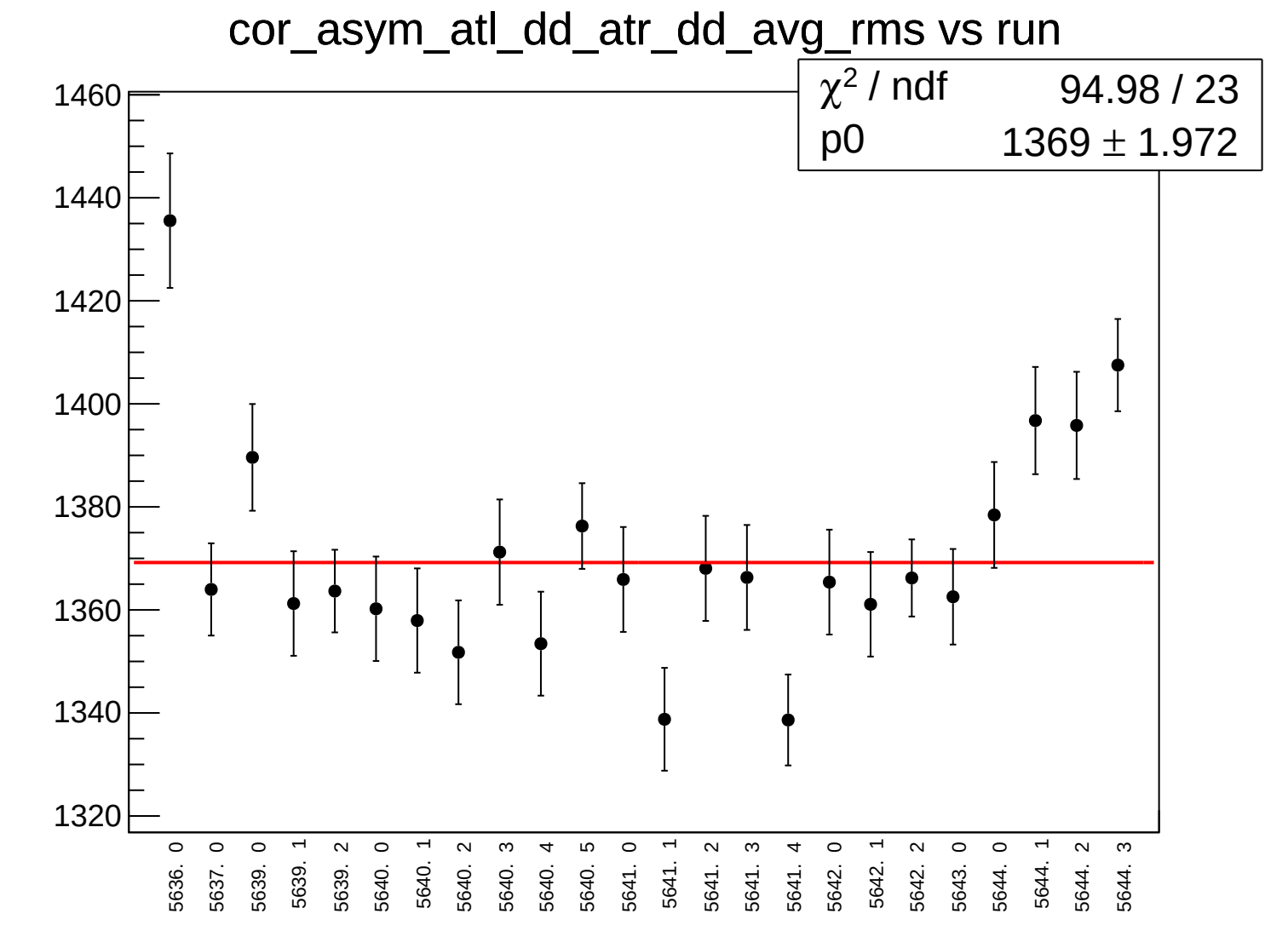

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
χ² / ndf 17.96 / 23
p0 2904 ± 3992
80000
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −103.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 24
Mean 0.02159
Std Dev 0.8647
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 1830 / 23
p0 1956 ± 2.822
2200
2100
2000
1900
1800
1700
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 32.21 / 23
p0 −972.1± 2789
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 447
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 24
Mean 0.004526
Std Dev 1.158
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 94.98 / 23
p0 1369 ± 1.972
1460
1440
1420
1400
1380
1360
1340
1320
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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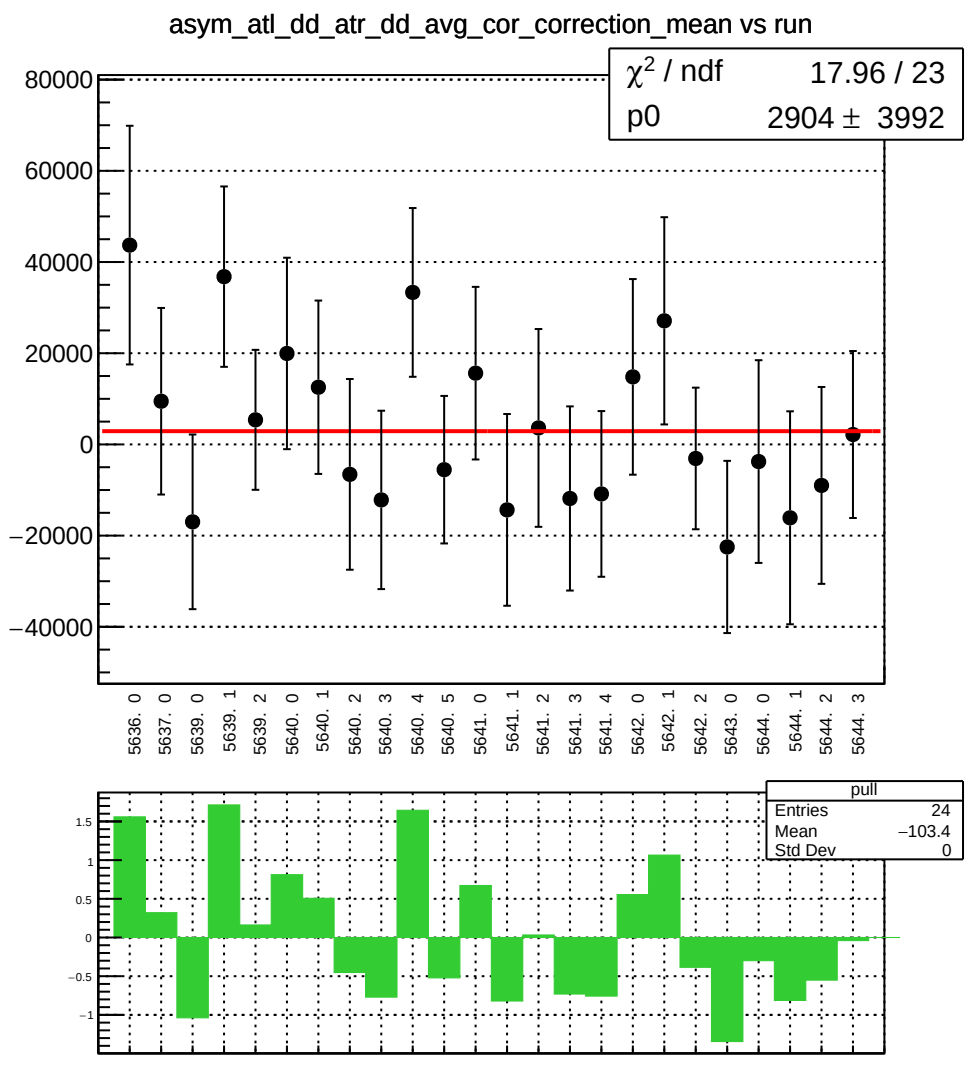
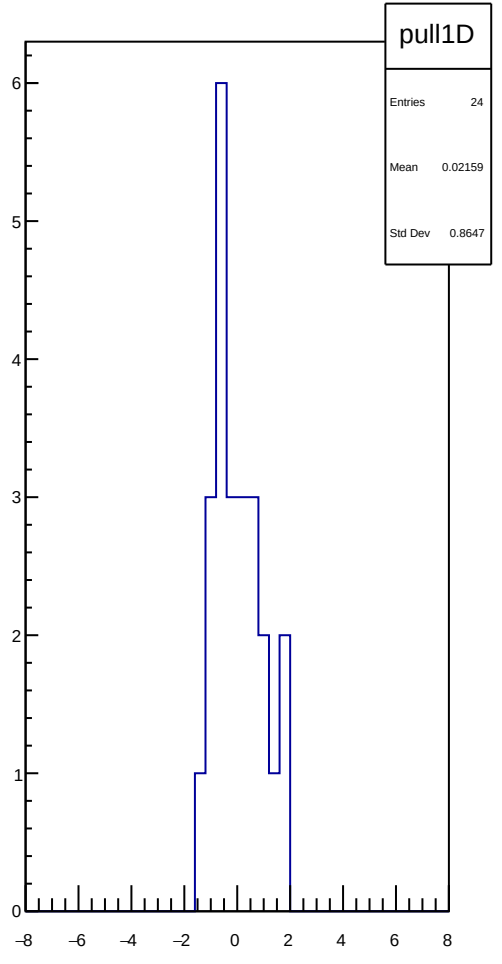
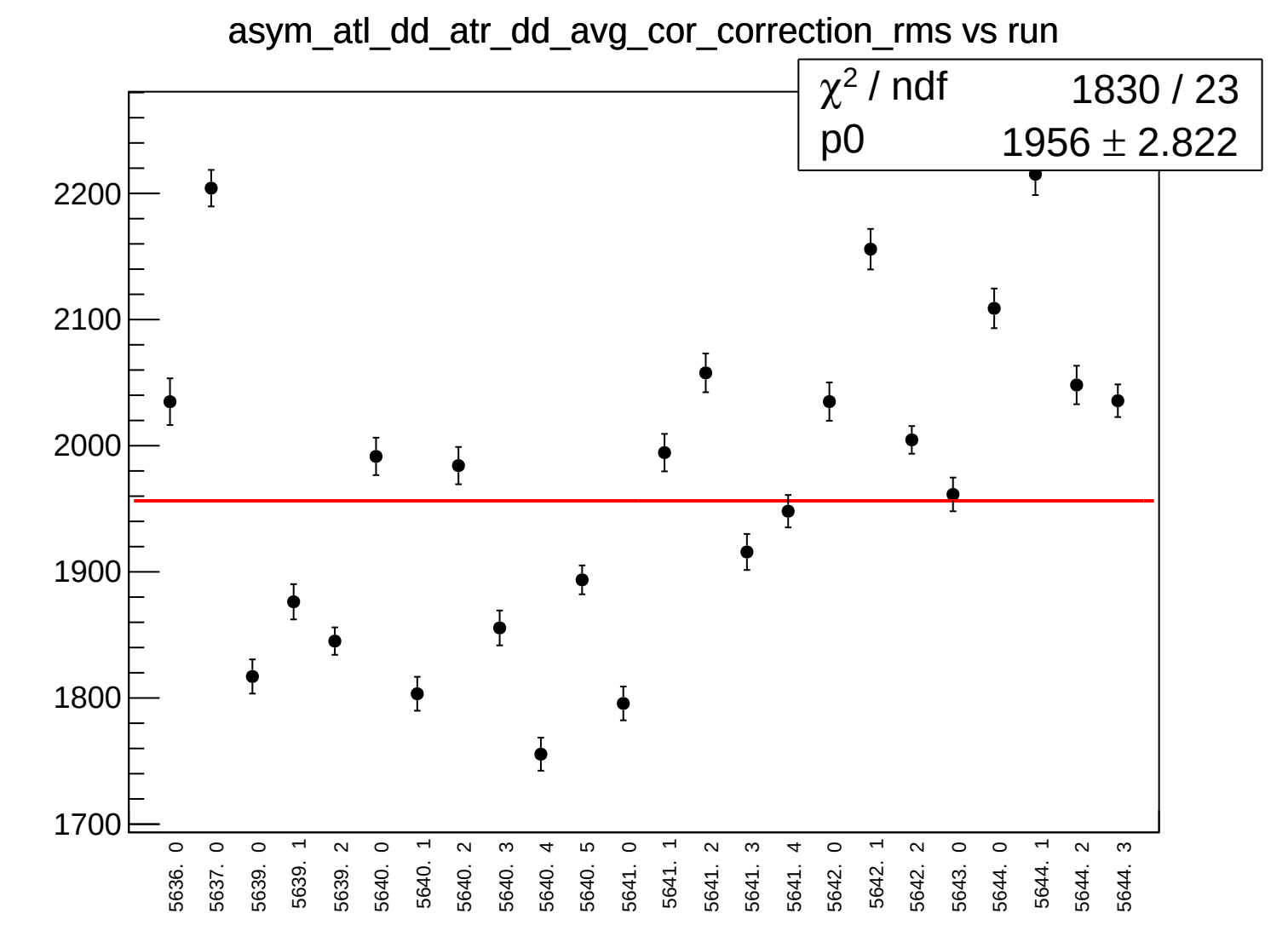
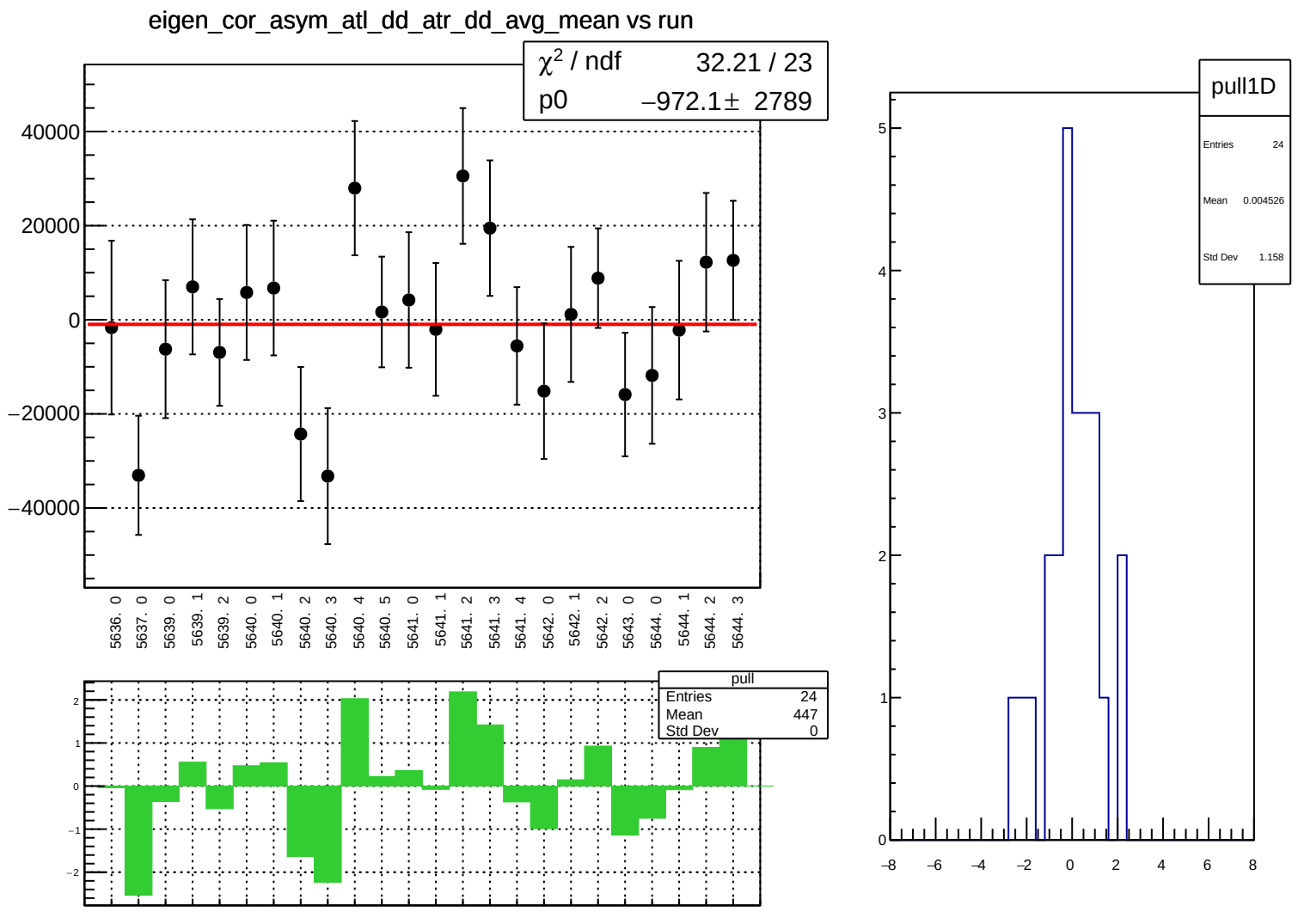
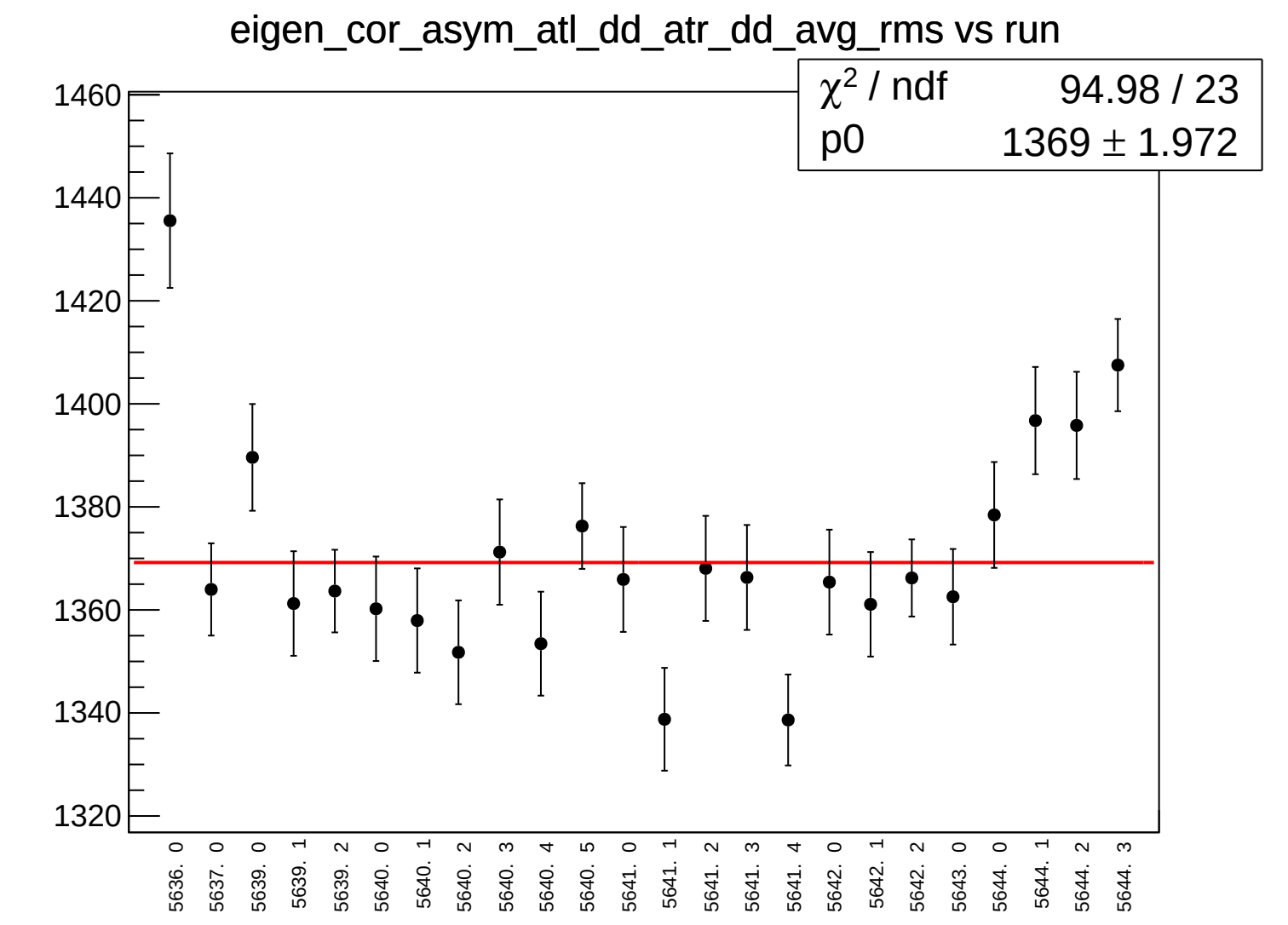
5644. 2
5644. 3

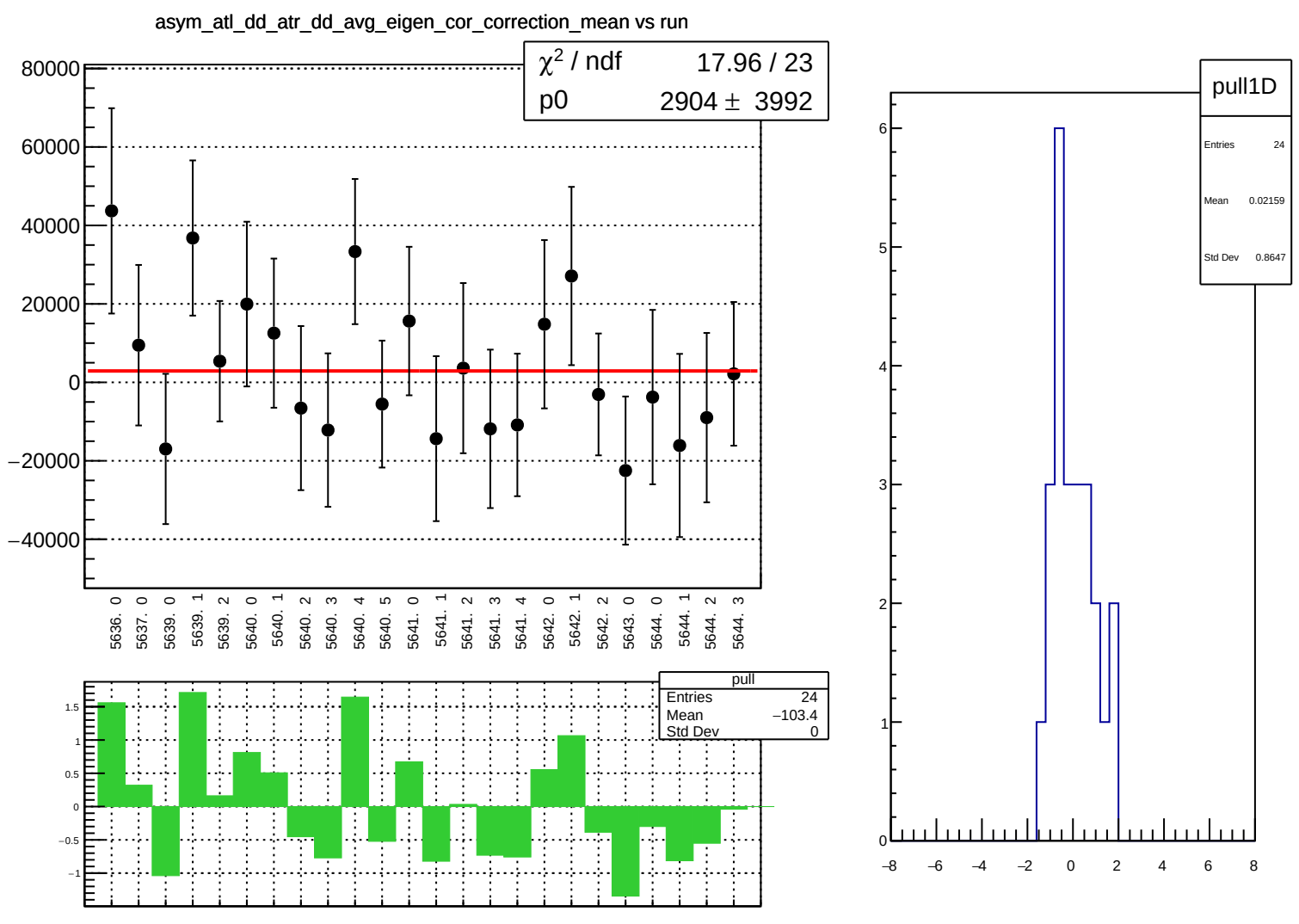

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
χ² / ndf 17.96 / 23
p0 2904 ± 3992
80000
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −103.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1

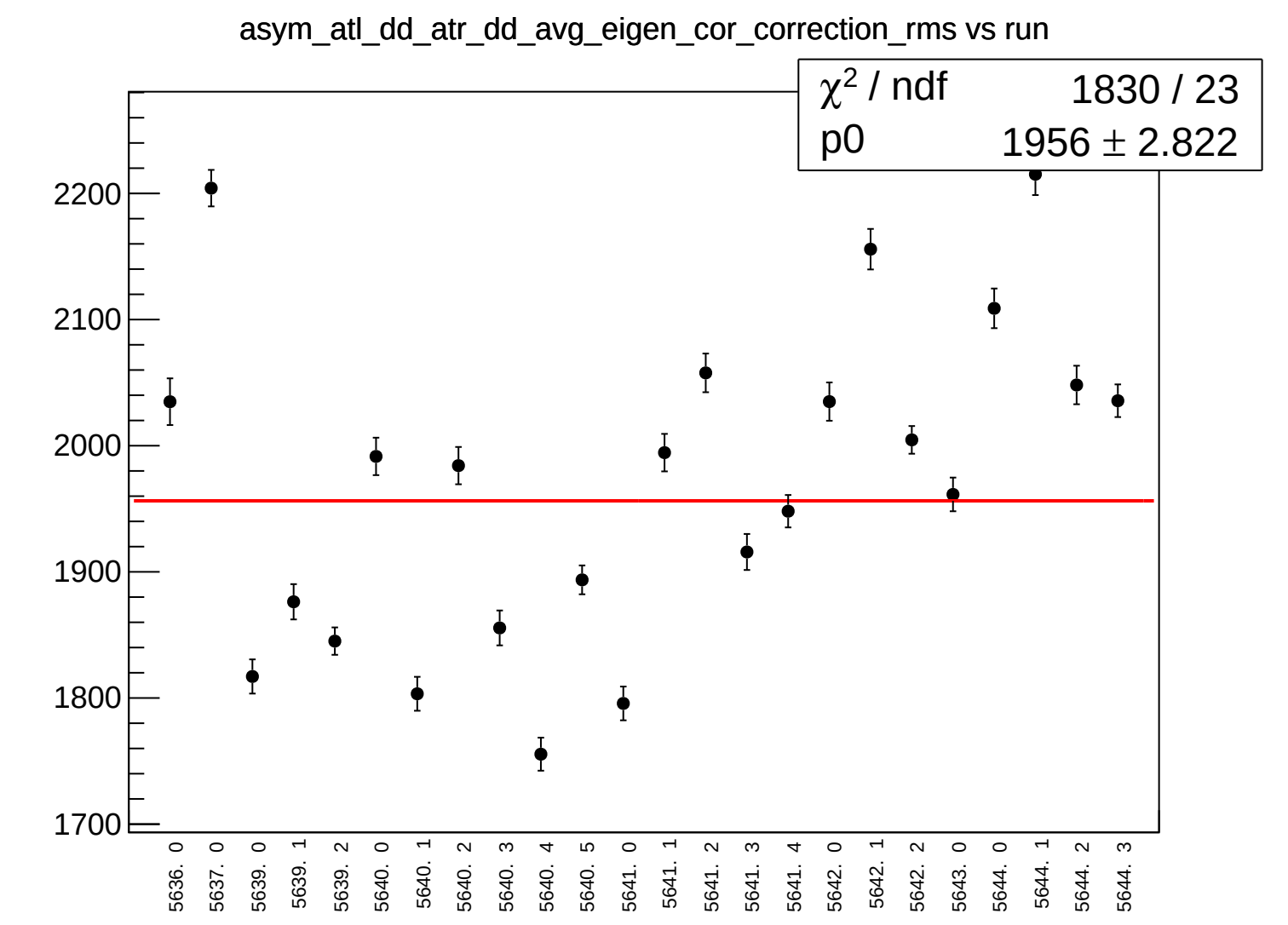

pull1D
Entries 24
Mean 0.02159
Std Dev 0.8647
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 1830 / 23
p0 1956 ± 2.822
2200
2100
2000
1900
1800
1700
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 32.21 / 23
p0 −972.1± 2789
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 447
Std Dev 0
pull1D
Entries 24
Mean 0.004526
Std Dev 1.158


eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 94.98 / 23
p0 1369 ± 1.972
1460
1440
1420
1400
1380
1360
1340
1320
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 17.96 / 23
p0 2904 ± 3992
80000
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −103.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.02159
Std Dev 0.8647
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1830 / 23
p0 1956 ± 2.822
2200
2100
2000
1900
1800
1700
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5643. 0
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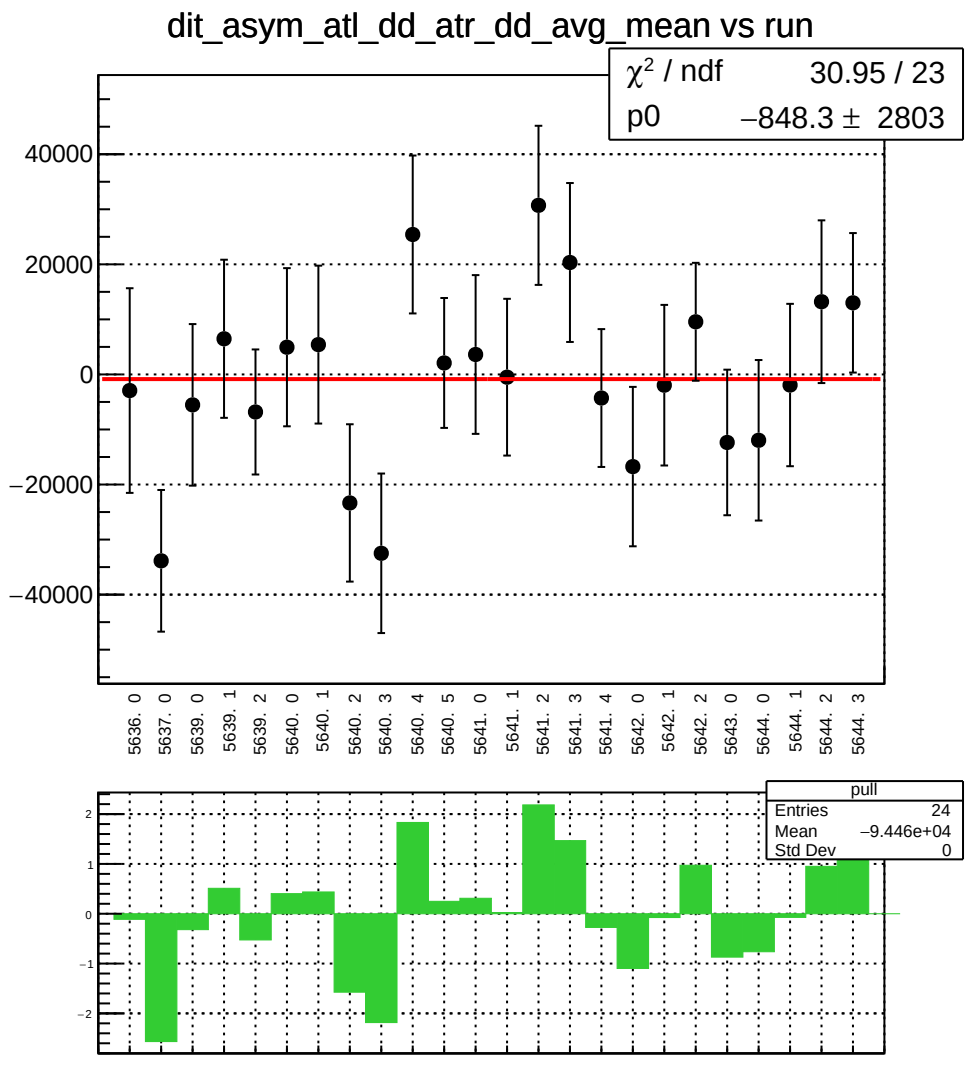
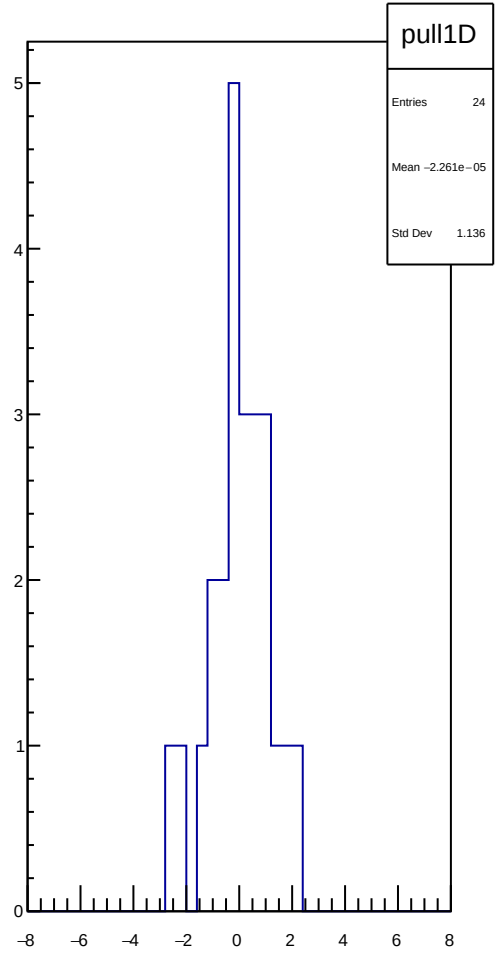
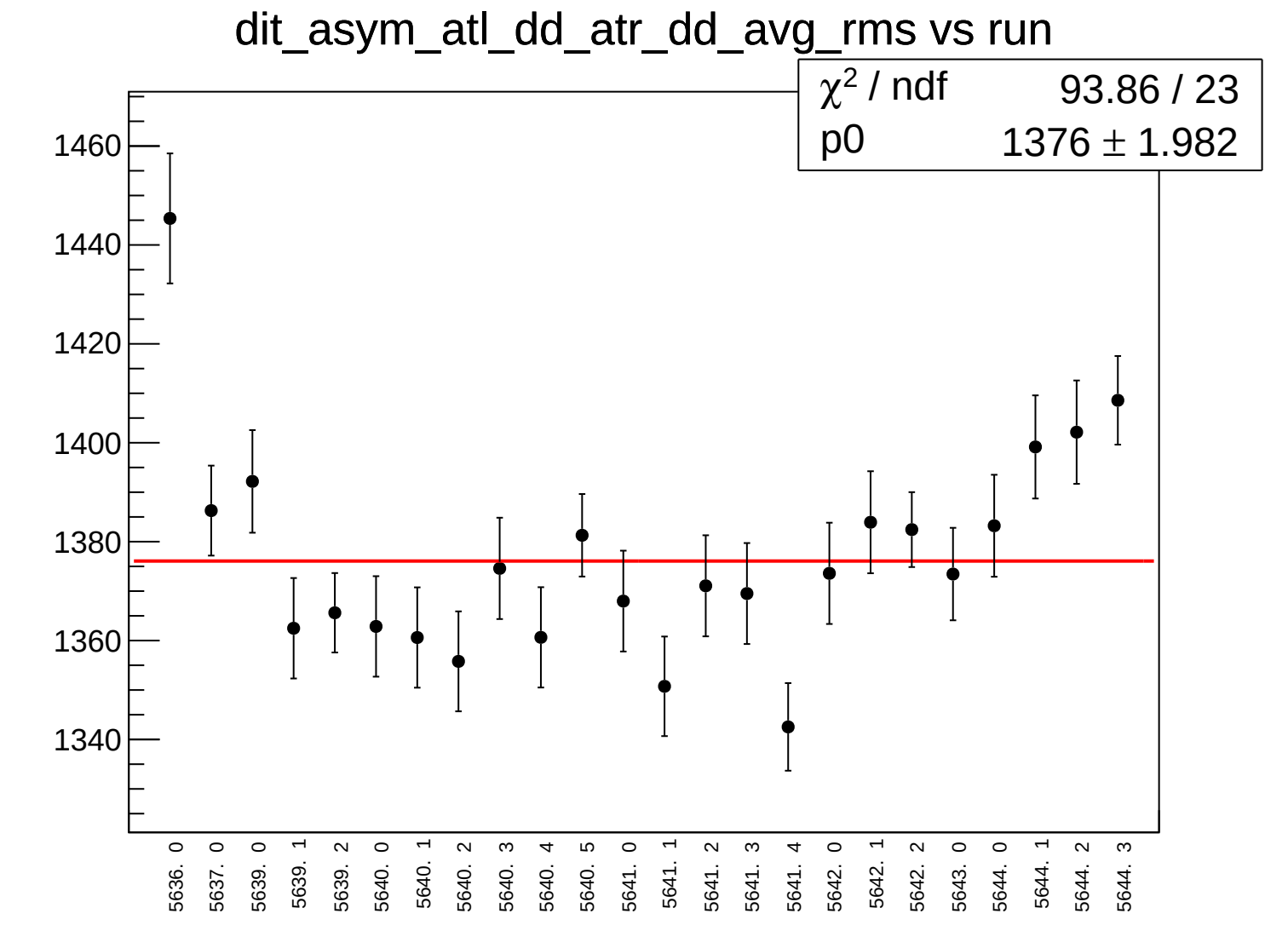
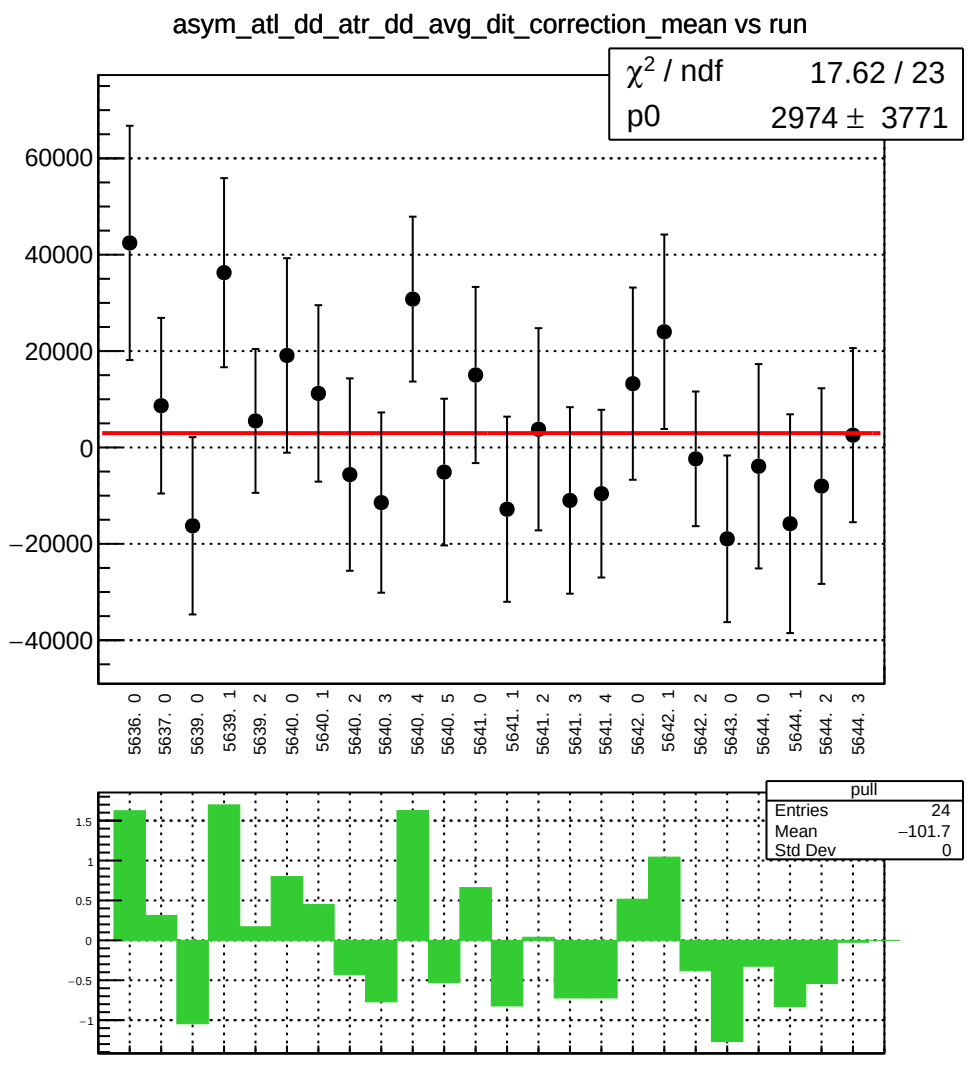
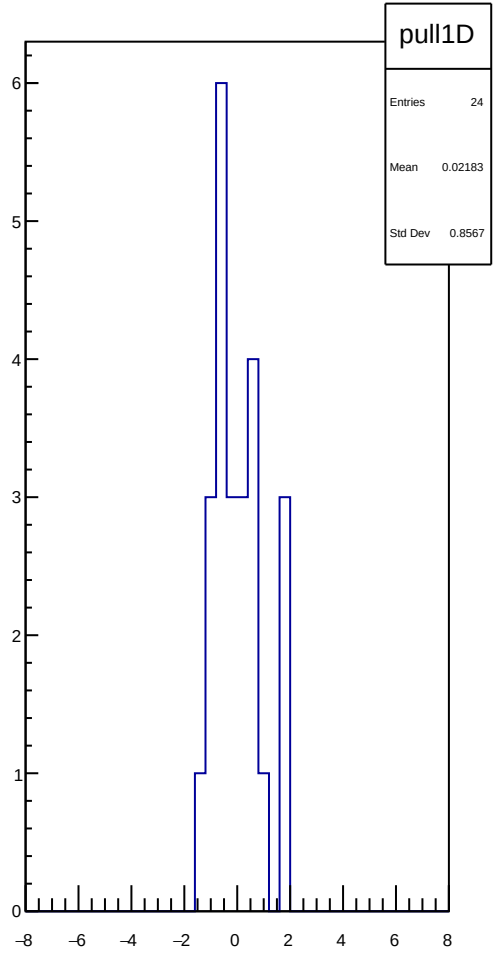
5644. 1
5644. 2
5644. 3

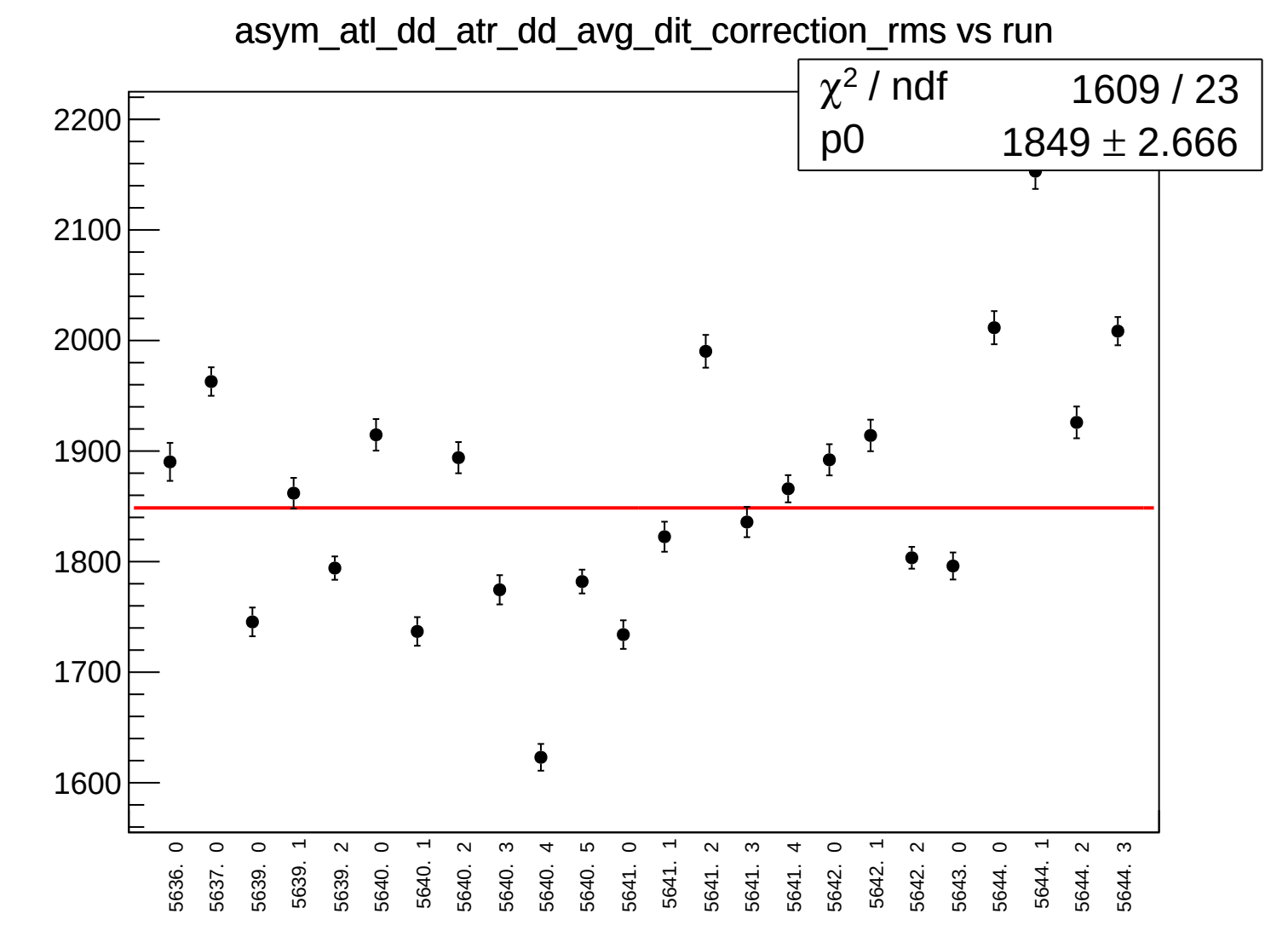

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 30.95 / 23
p0 −848.3 ± 2803
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −9.446e+04
Std Dev 0
2
1
0
−1
−2

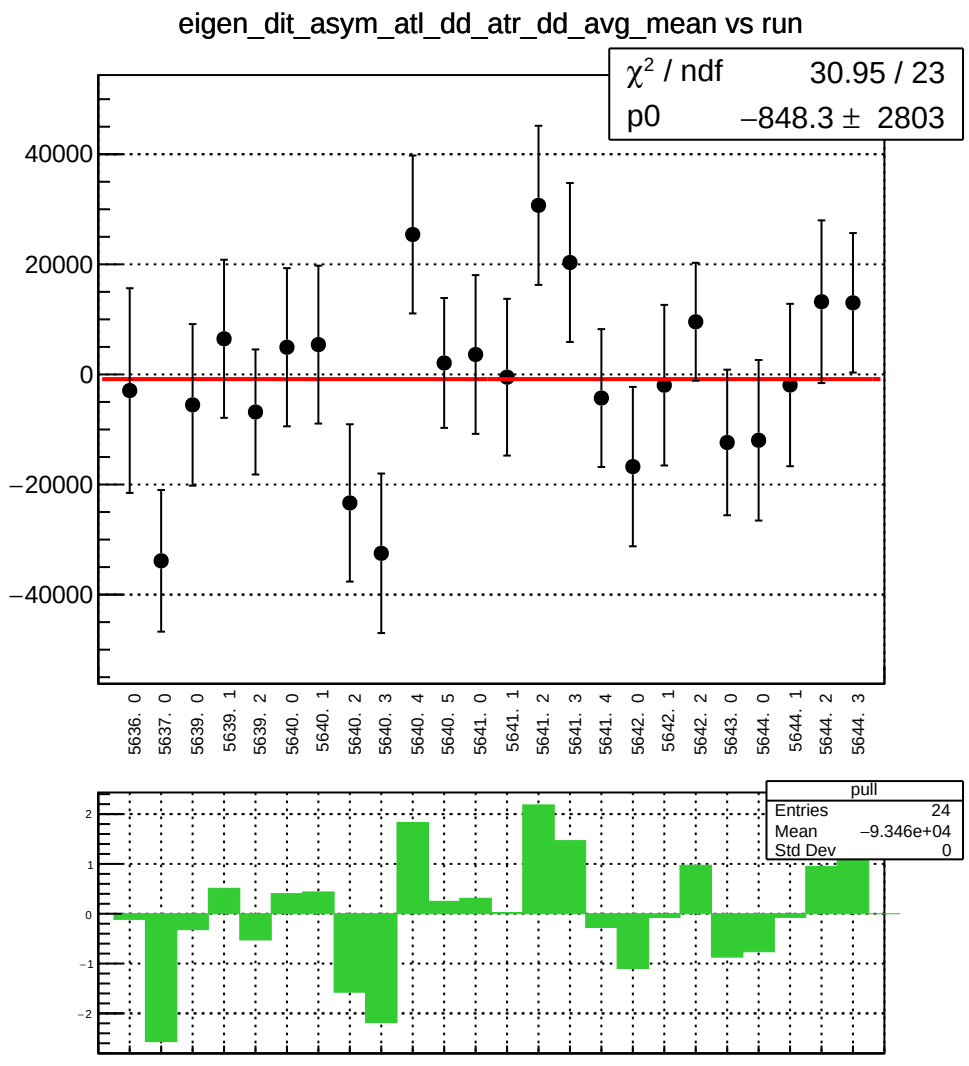

pull1D
Entries 24
Mean −2.261e−05
Std Dev 1.136
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

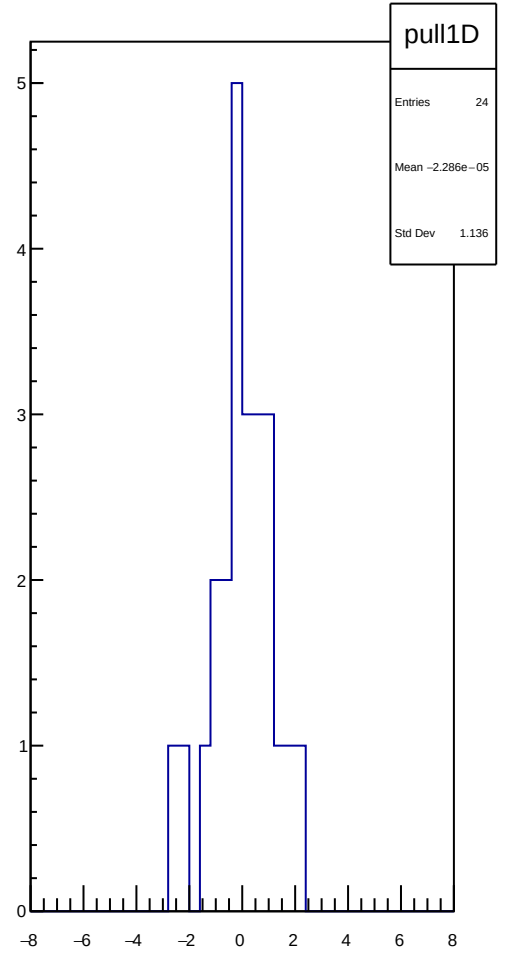

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 93.86 / 23
p0 1376 ± 1.982
1460
1440
1420
1400
1380
1360
1340
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

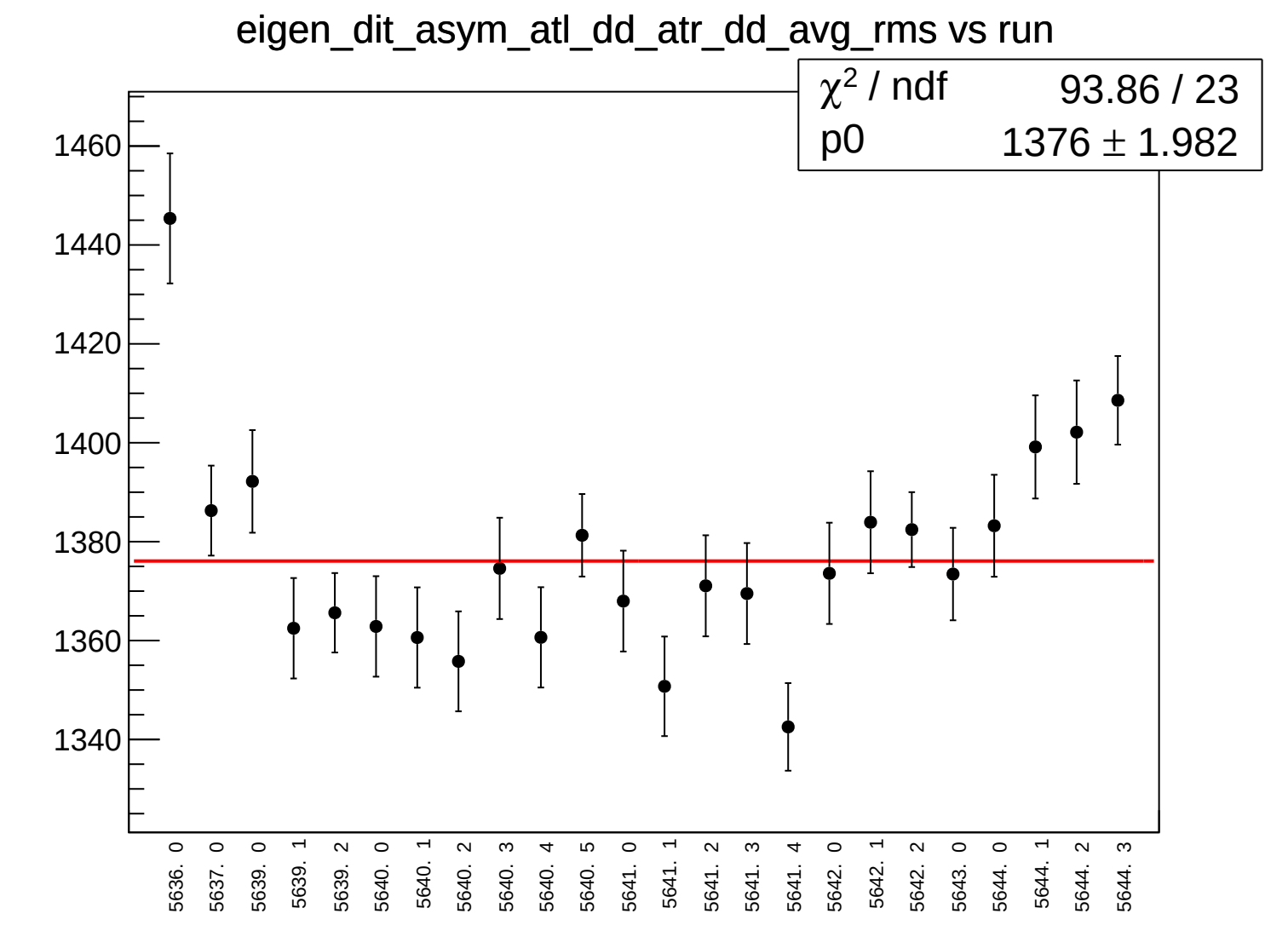

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
χ² / ndf 17.62 / 23
p0 2974 ± 3771
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −101.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1

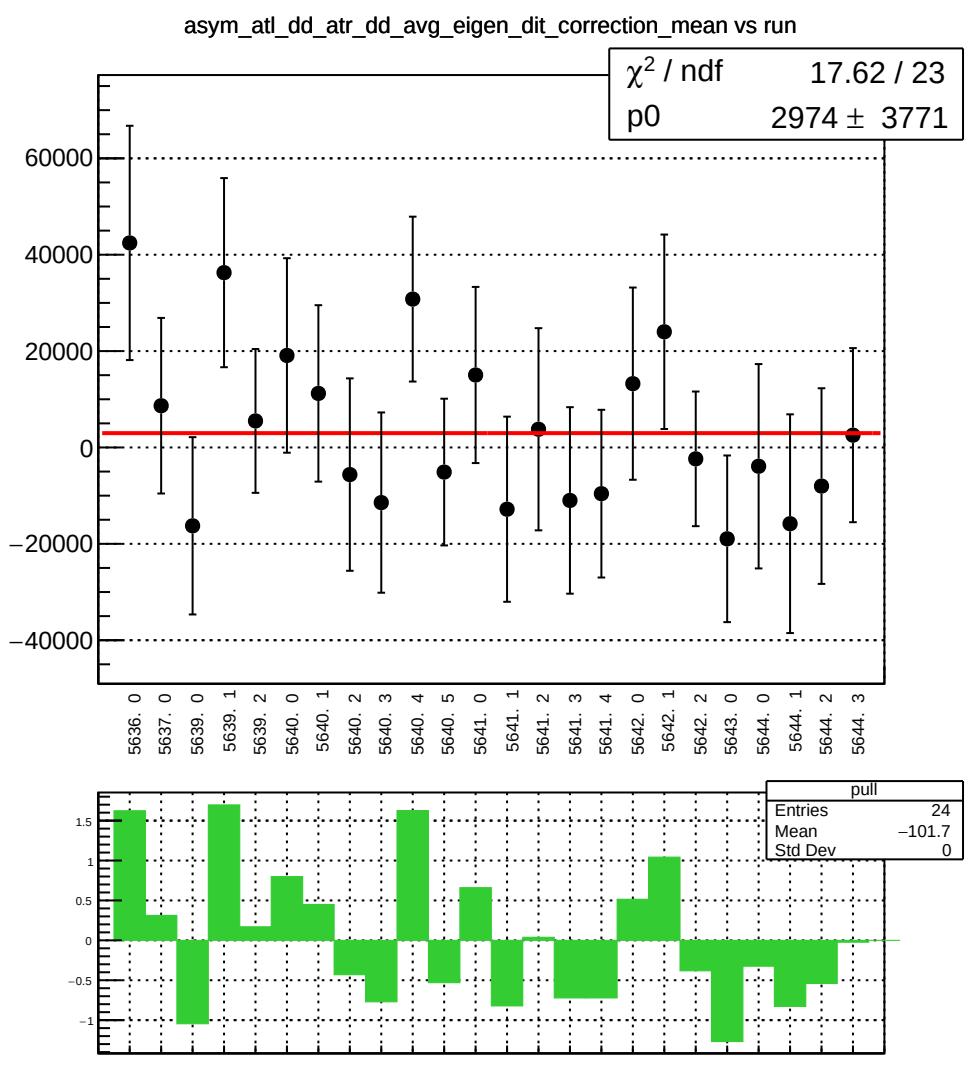

pull1D
Entries 24
Mean 0.02183
Std Dev 0.8567
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

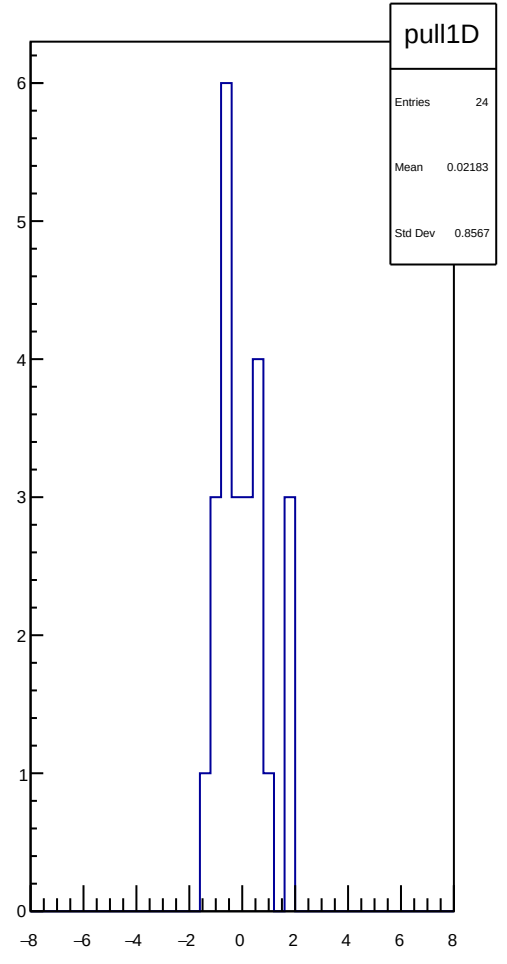

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 1609 / 23
p0 1849 ± 2.666
2200
2100
2000
1900
1800
1700
1600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

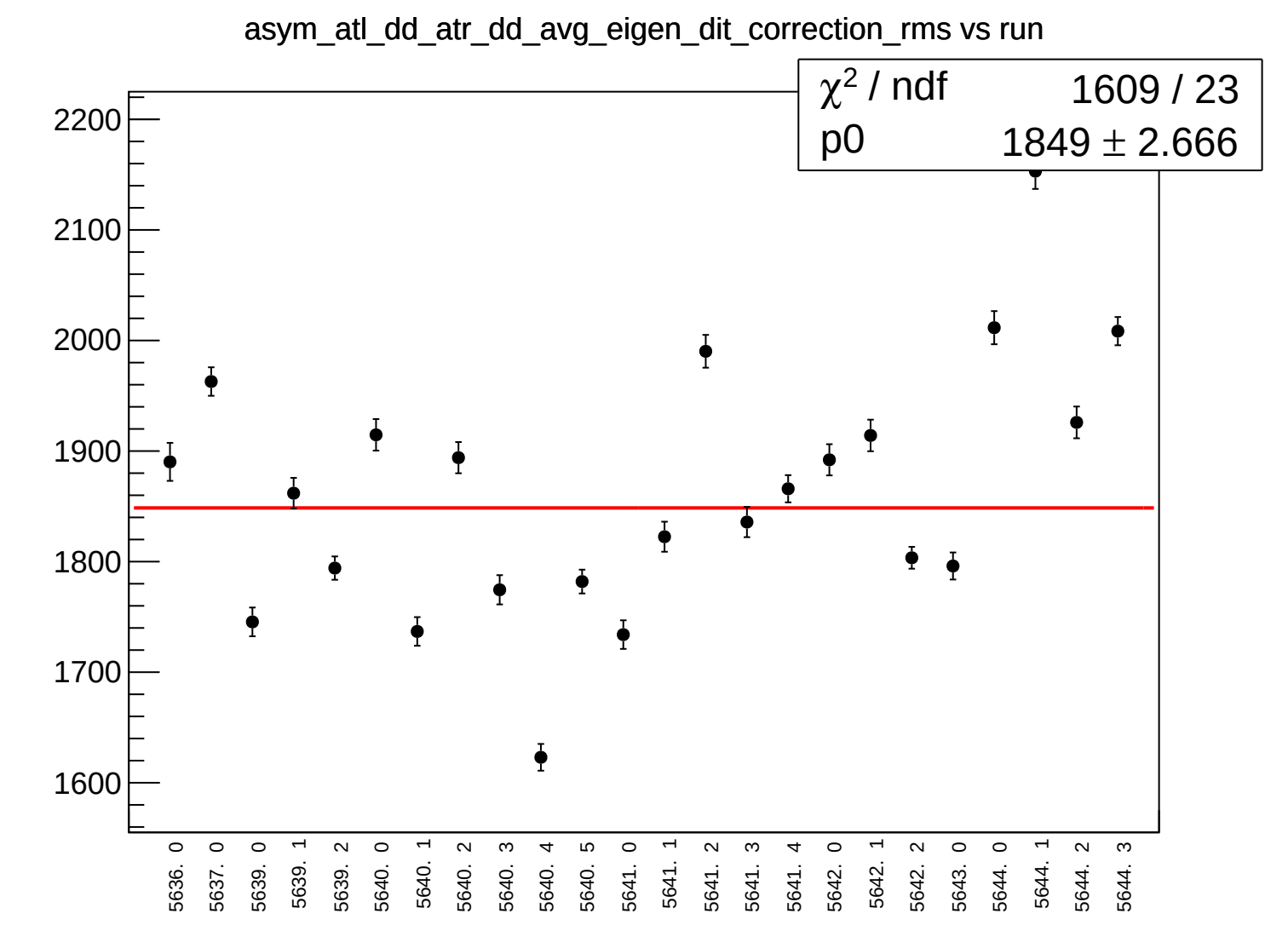

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 30.95 / 23
p0 −848.3 ± 2803
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −9.346e+04
Std Dev 0
2
1
0
−1
−2

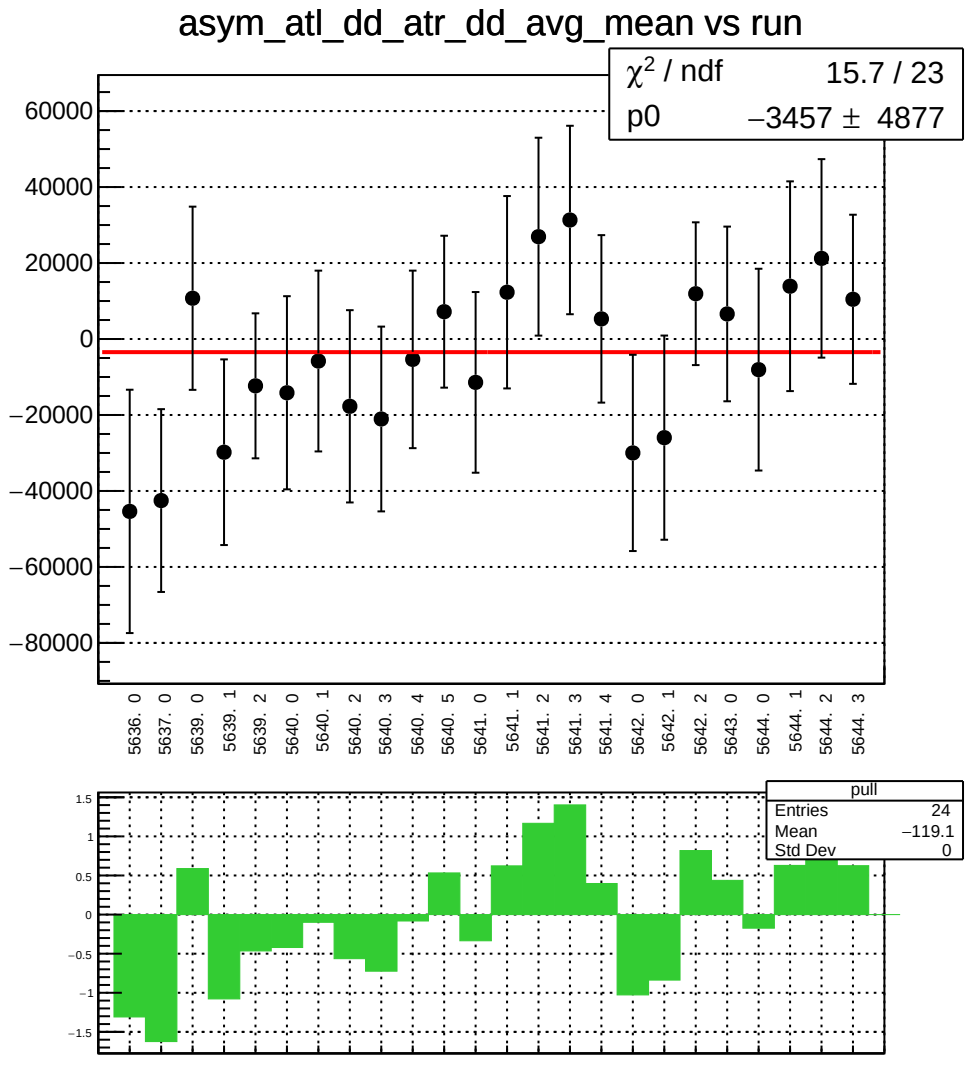

pull1D
Entries 24
Mean −2.286e−05
Std Dev 1.136
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

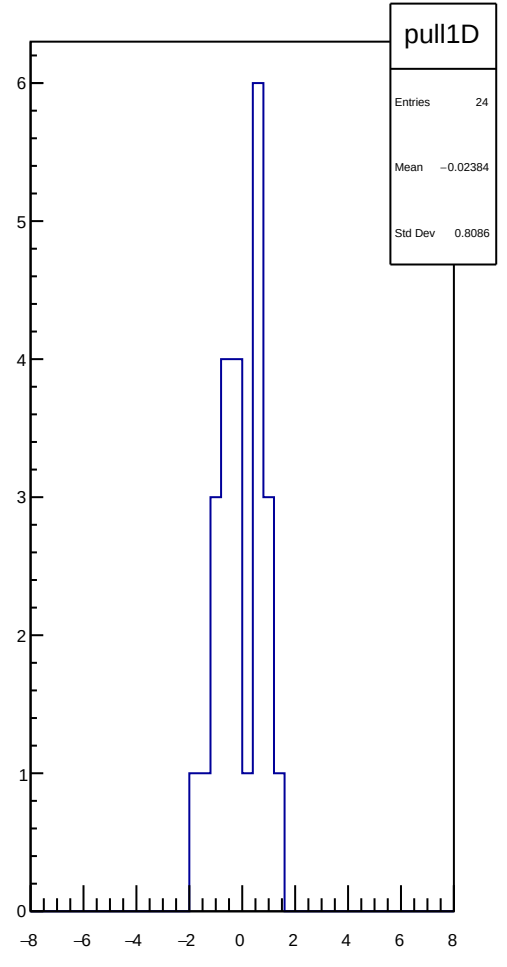

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 93.86 / 23
p0 1376 ± 1.982
1460
1440
1420
1400
1380
1360
1340
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

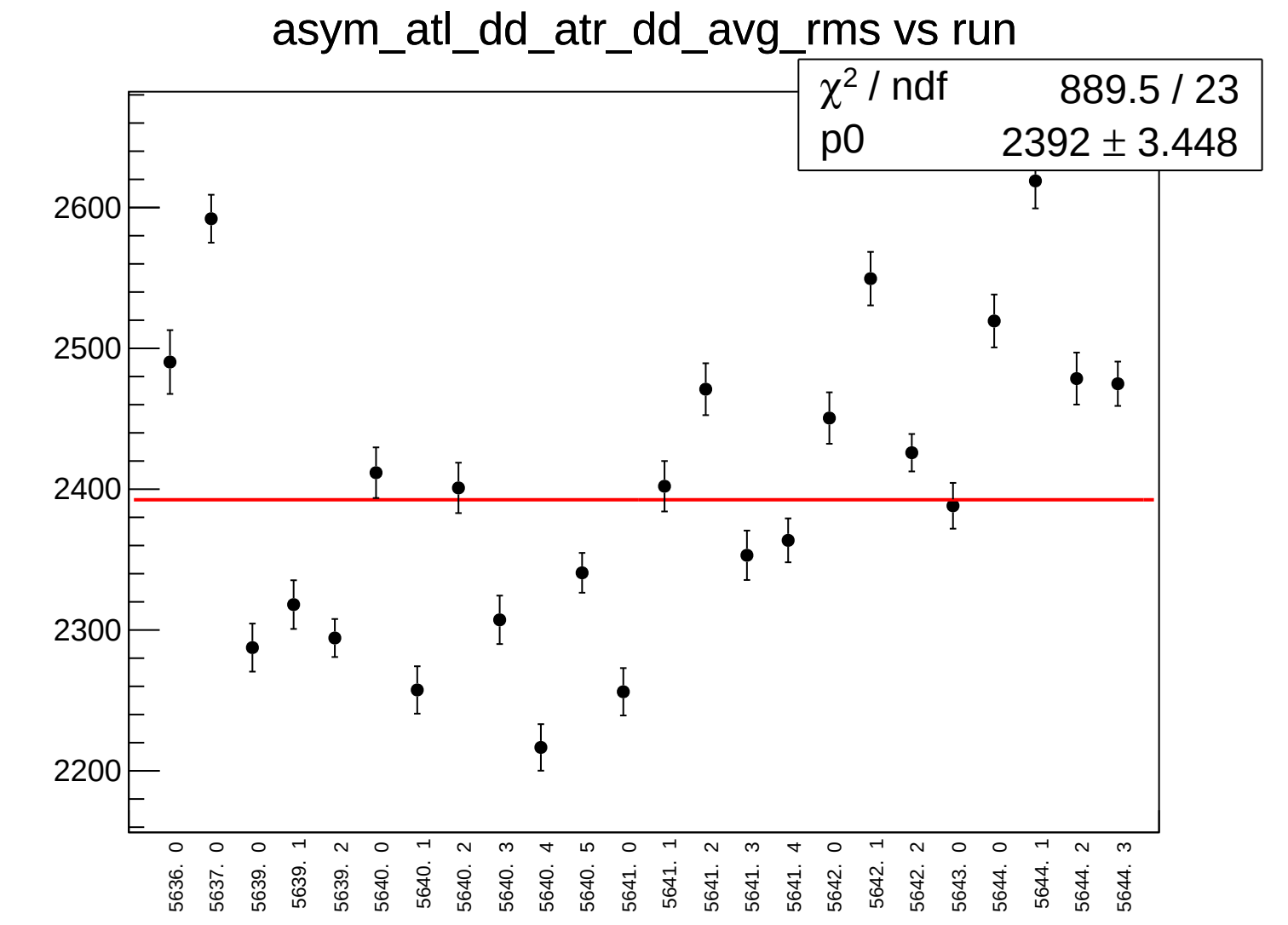

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 17.62 / 23
p0 2974 ± 3771
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −101.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1

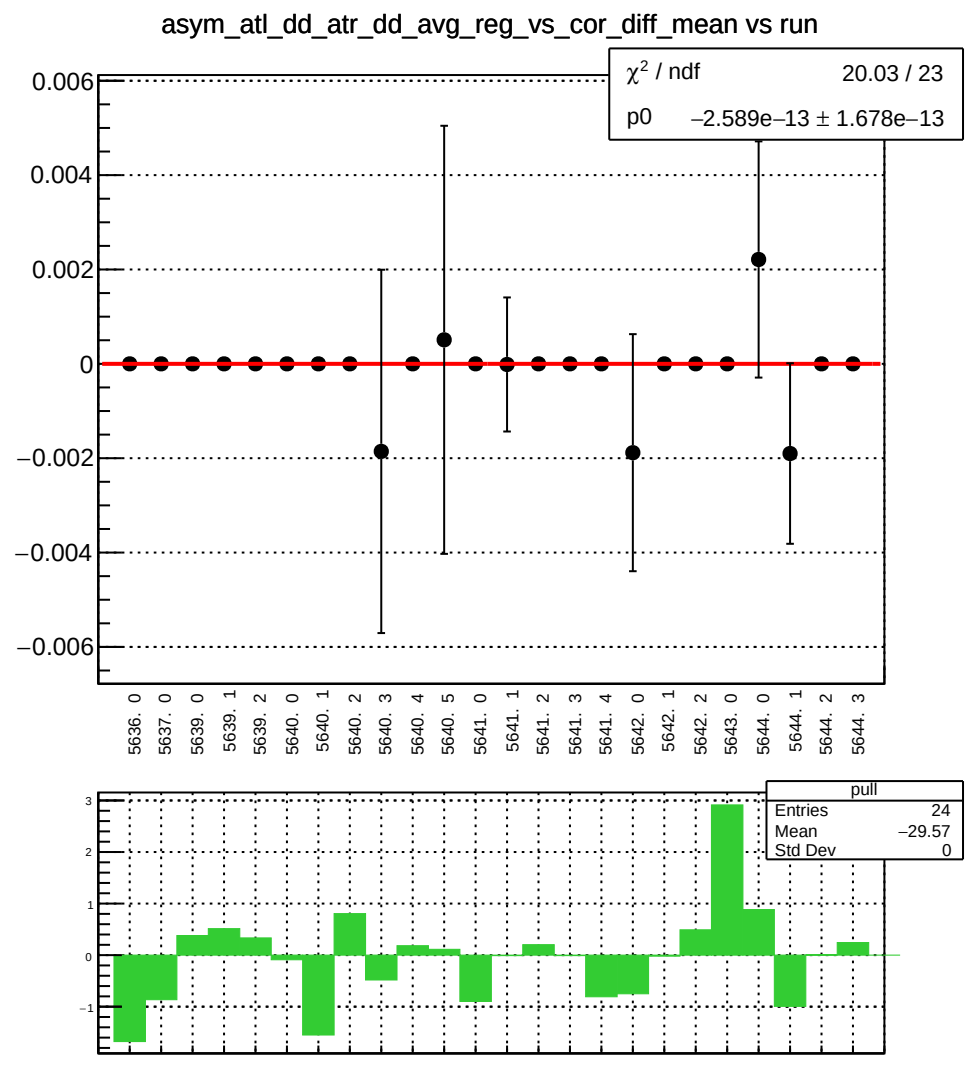

pull1D
Entries 24
Mean 0.02183
Std Dev 0.8567
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

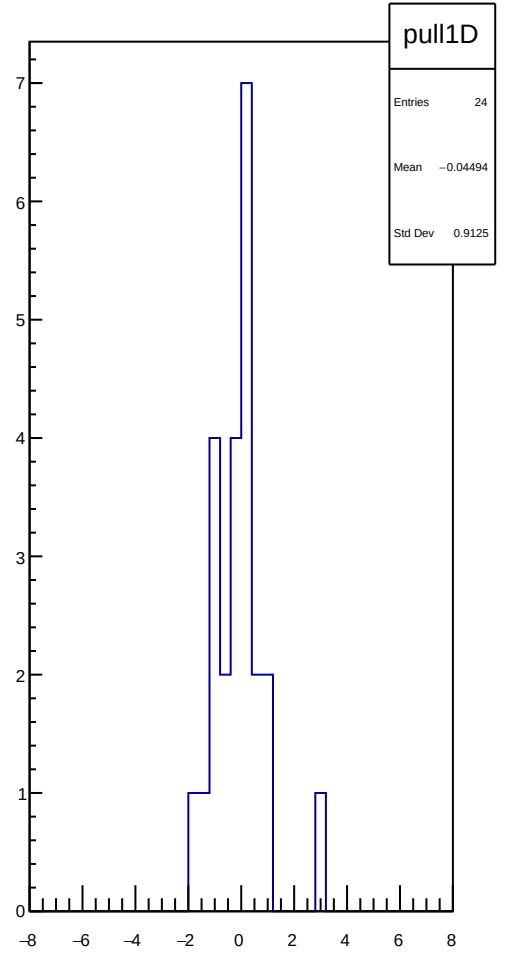

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1609 / 23
p0 1849 ± 2.666
2200
2100
2000
1900
1800
1700
1600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

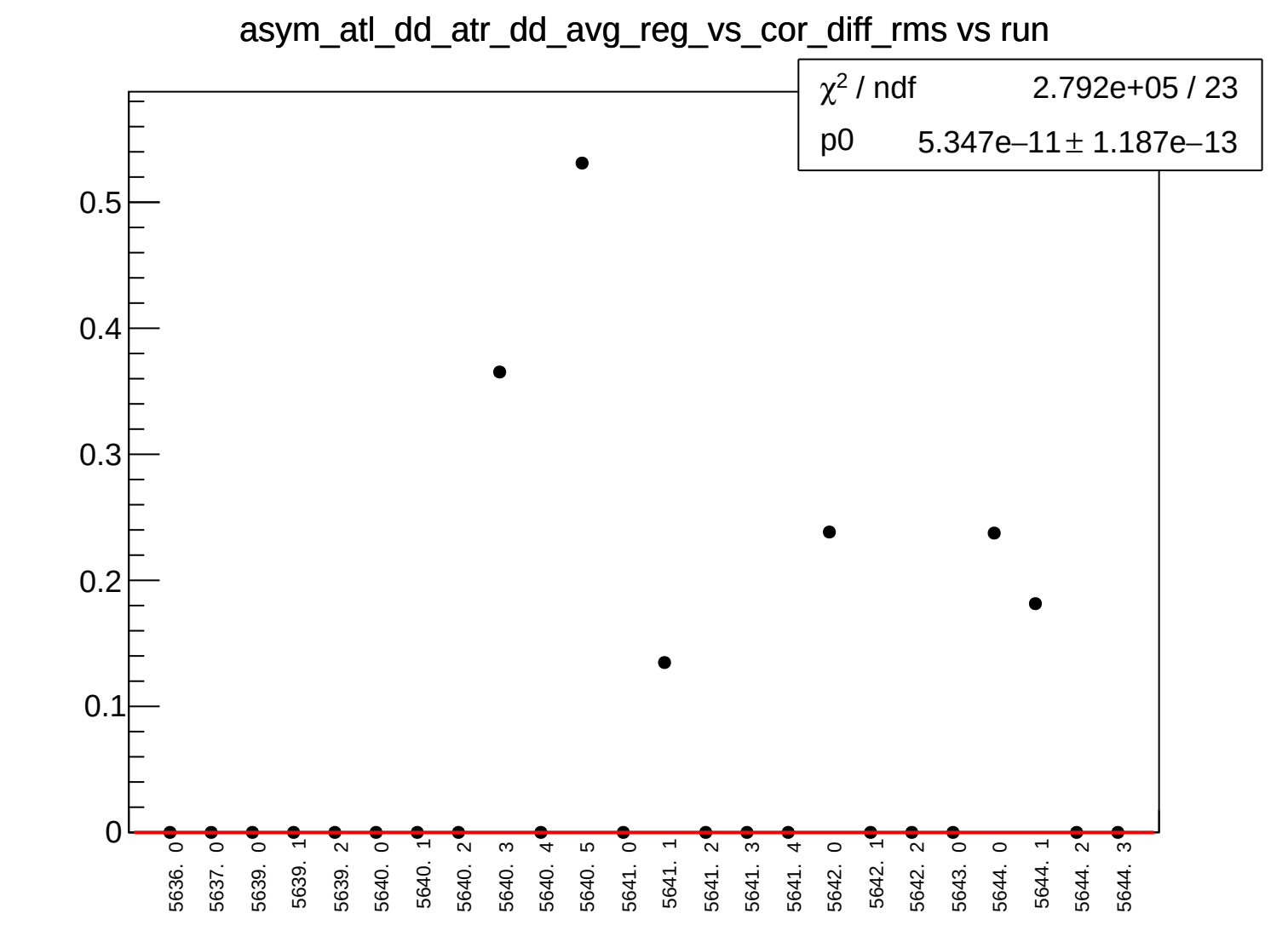

asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 15.7 / 23
p0 −3457 ± 4877
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −119.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

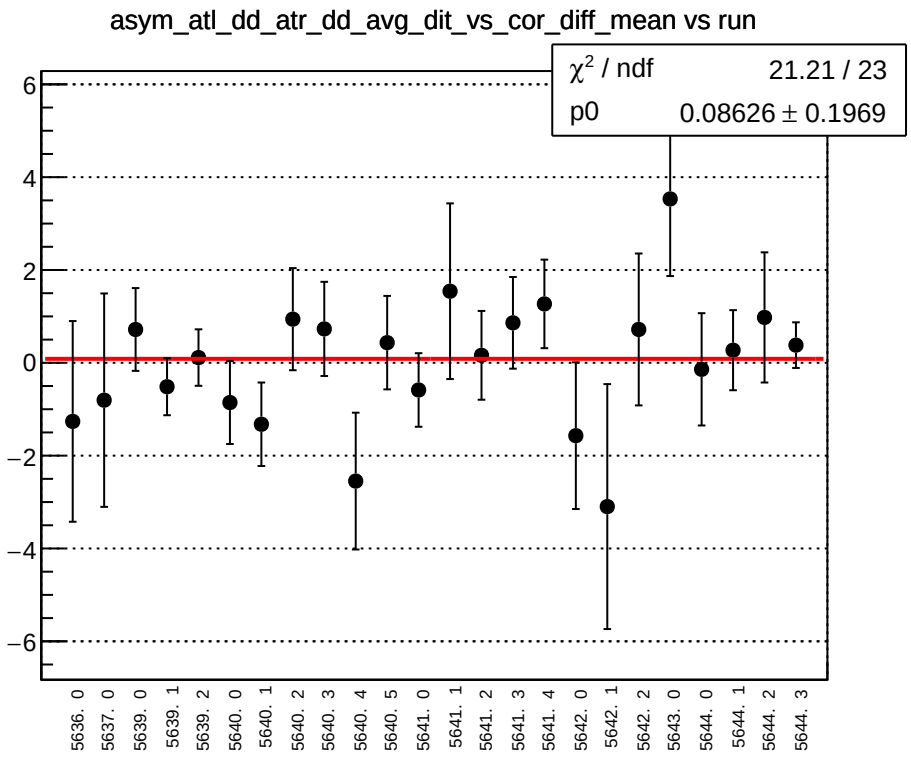

pull1D
Entries 24
Mean −0.02384
Std Dev 0.8086
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

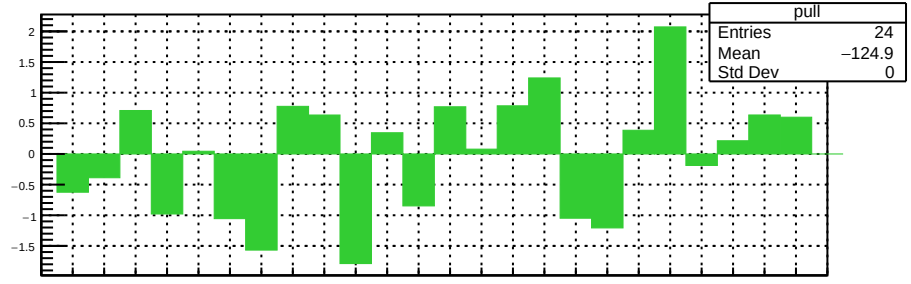

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 889.5 / 23
p0 2392 ± 3.448
2600
2500
2400
2300
2200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

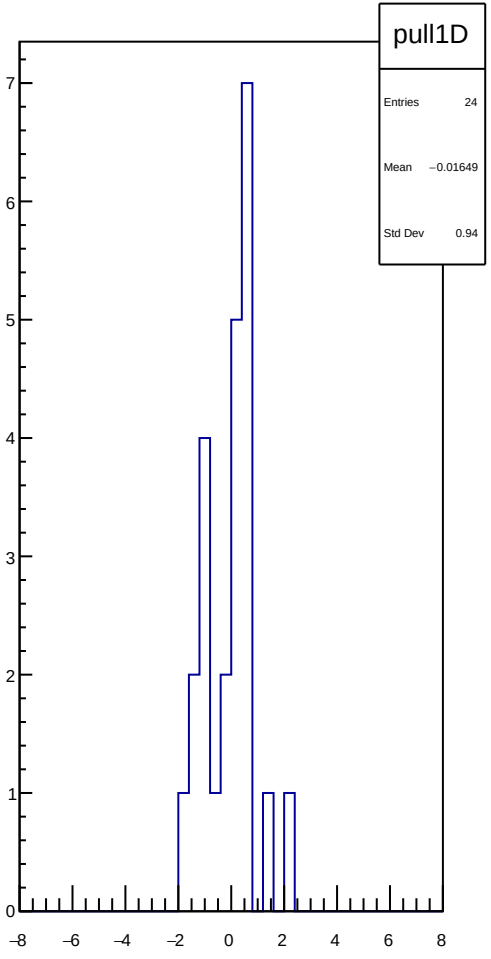

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 20.03 / 23
p0 −2.589e−13 ± 1.678e−13
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −29.57
Std Dev 0
3
2
1
0
−1

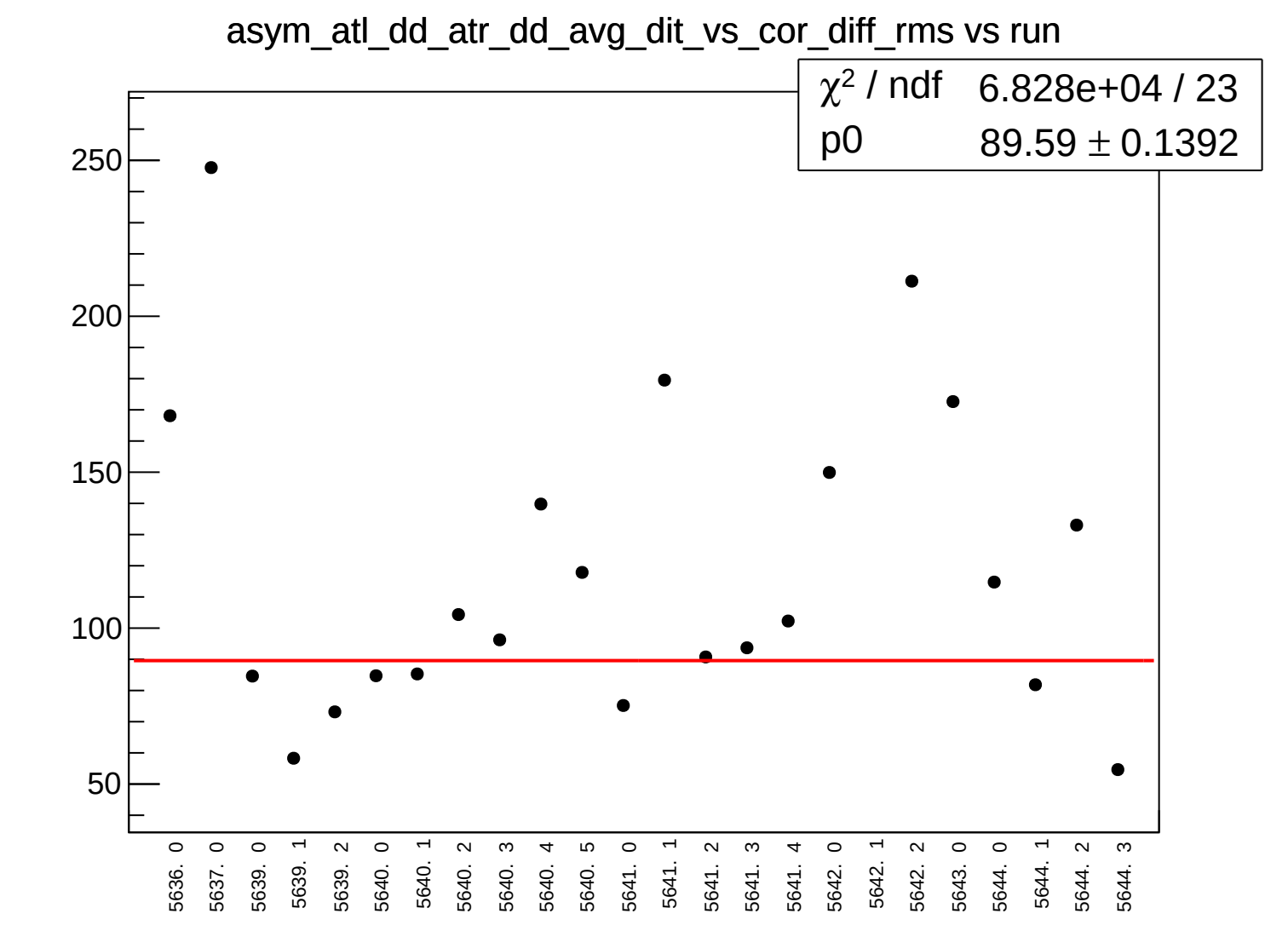

pull1D
Entries 24
Mean −0.04494
Std Dev 0.9125
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

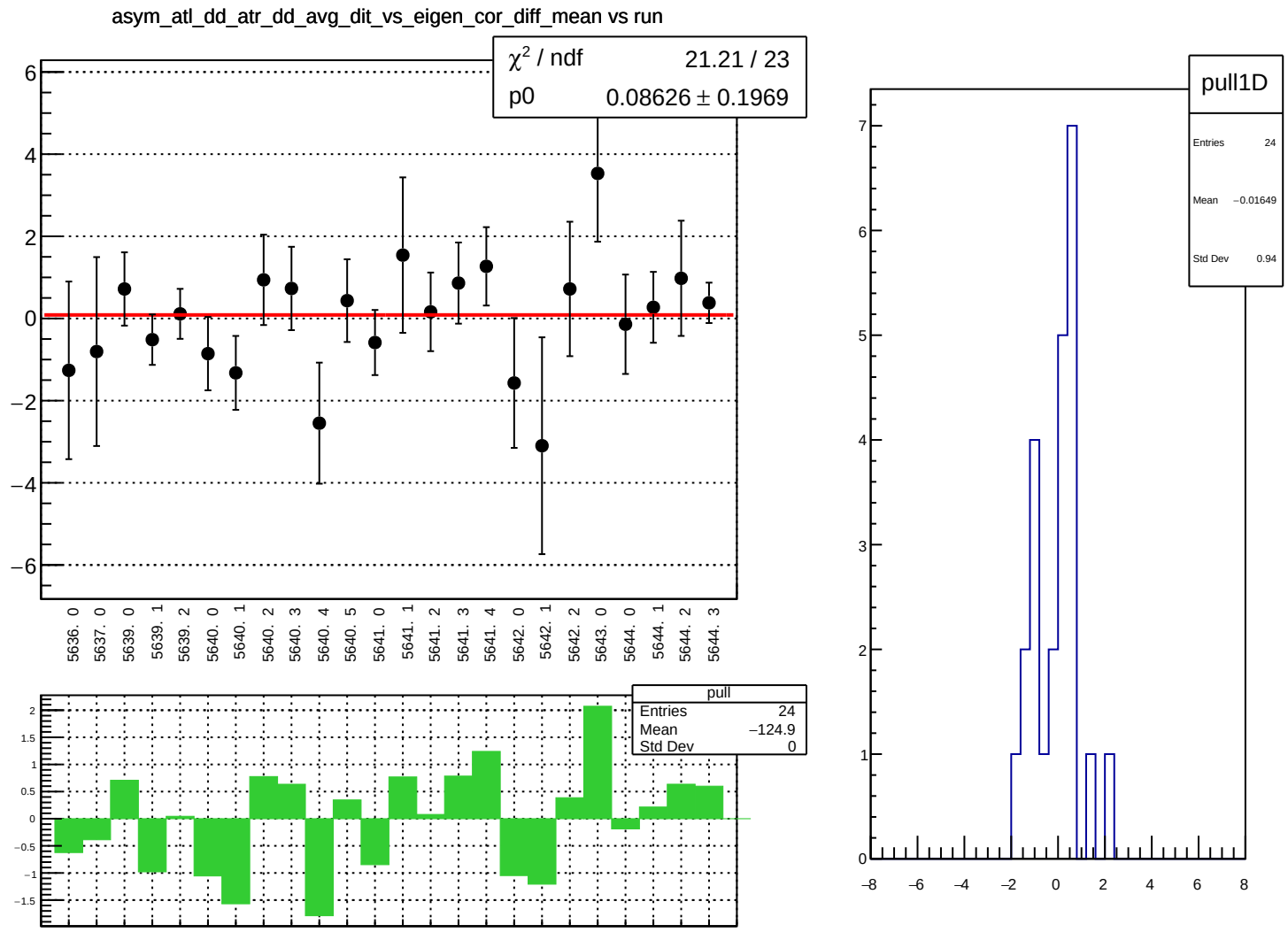

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.792e+05 / 23
p0 5.347e−11 ± 1.187e−13
0.5
0.4
0.3
0.2
0.1
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

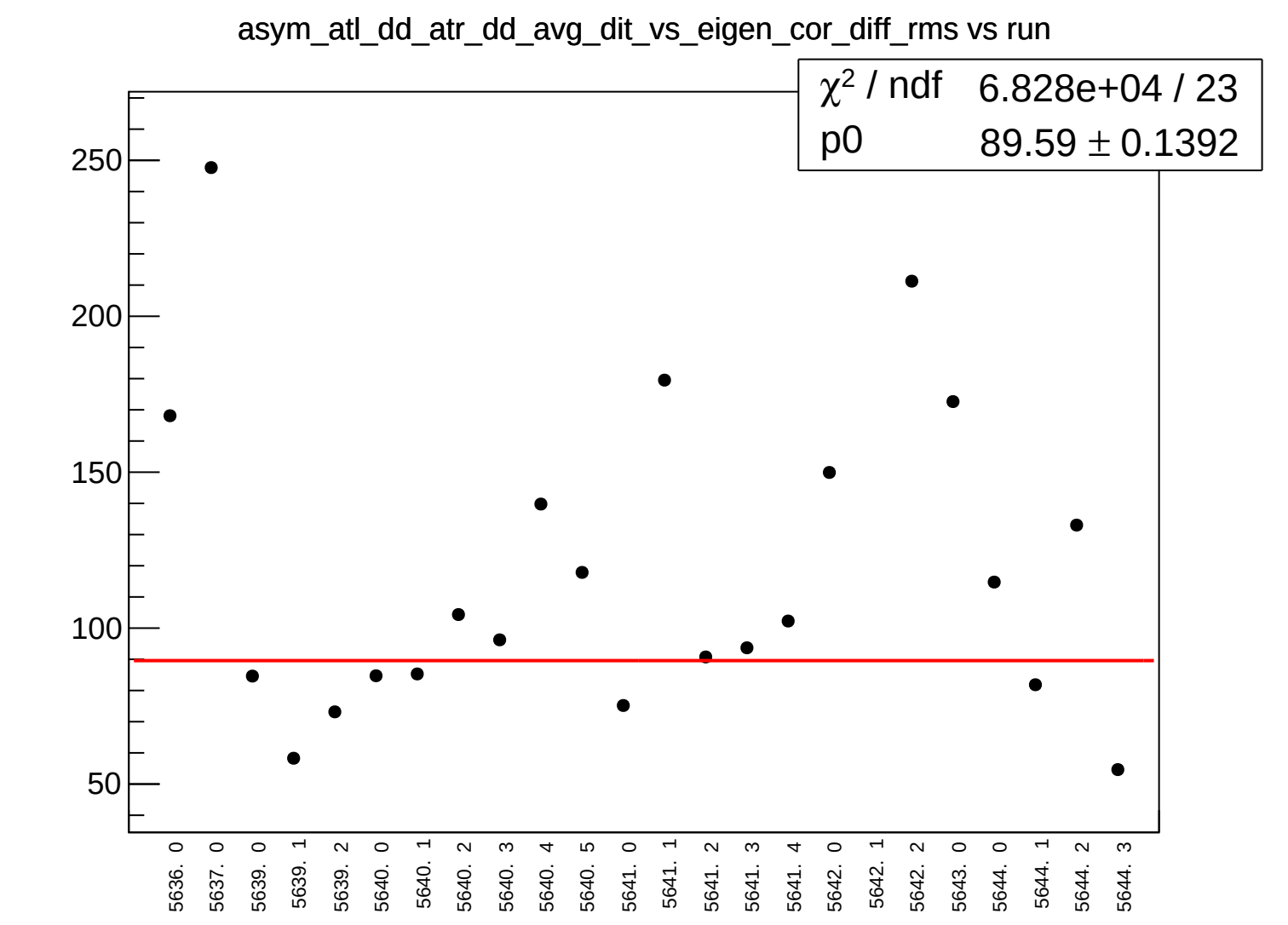

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 21.21 / 23
p0 0.08626 ± 0.1969
6
4
2
0
−2
−4
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

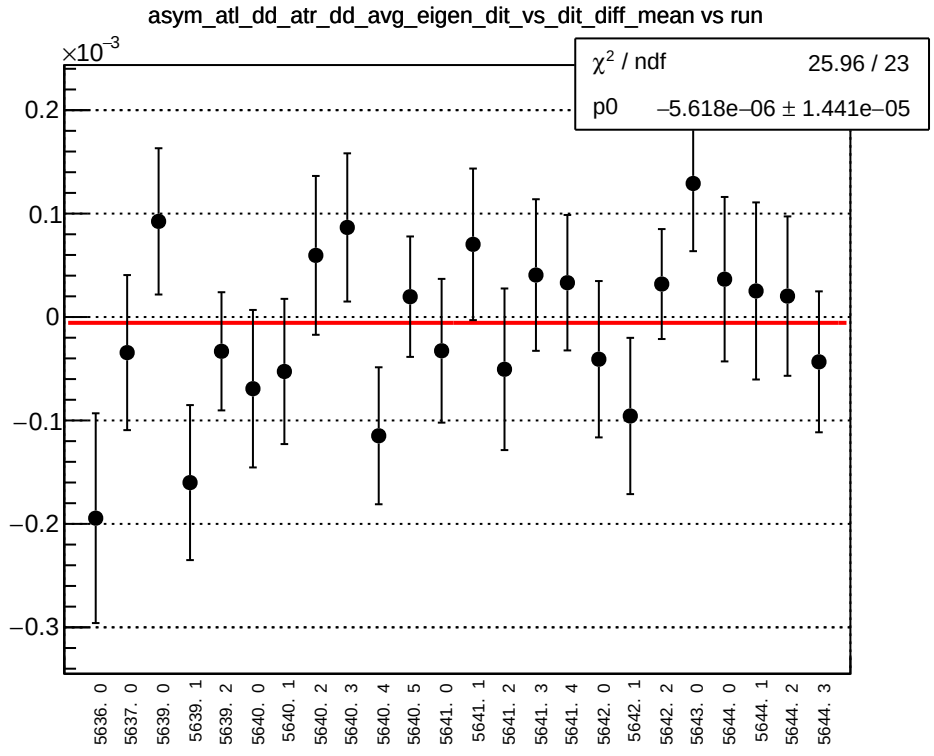

pull
Entries 24
Mean −124.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

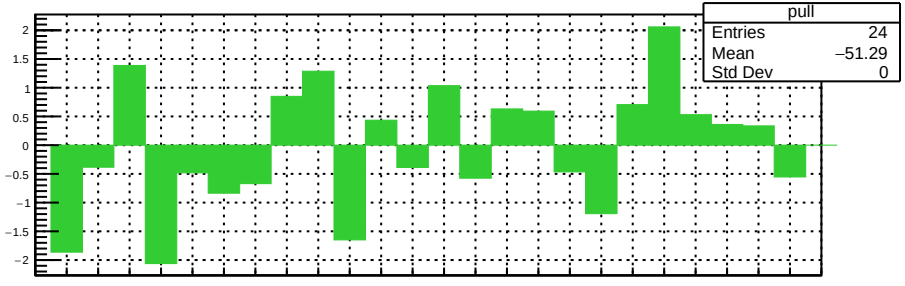

pull1D
Entries 24
Mean −0.01649
Std Dev 0.94
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

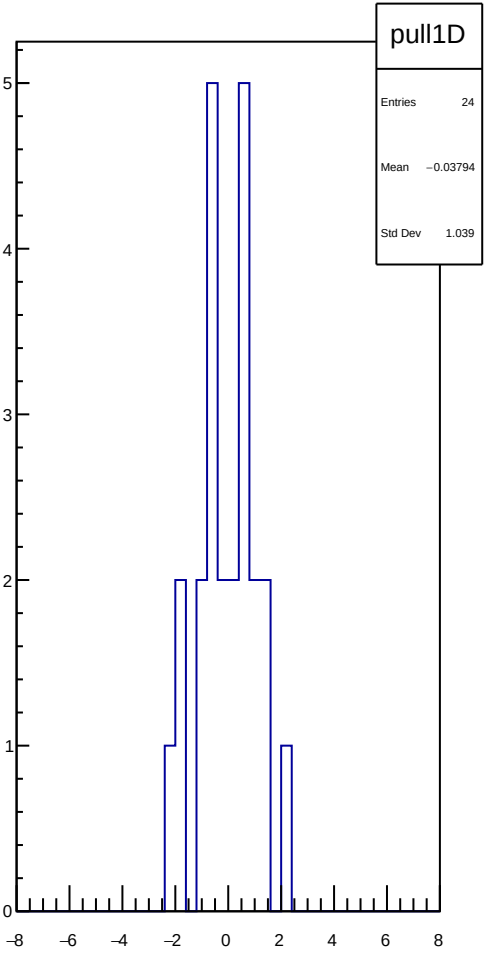

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.828e+04 / 23
p0 89.59 ± 0.1392
250
200
150
100
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

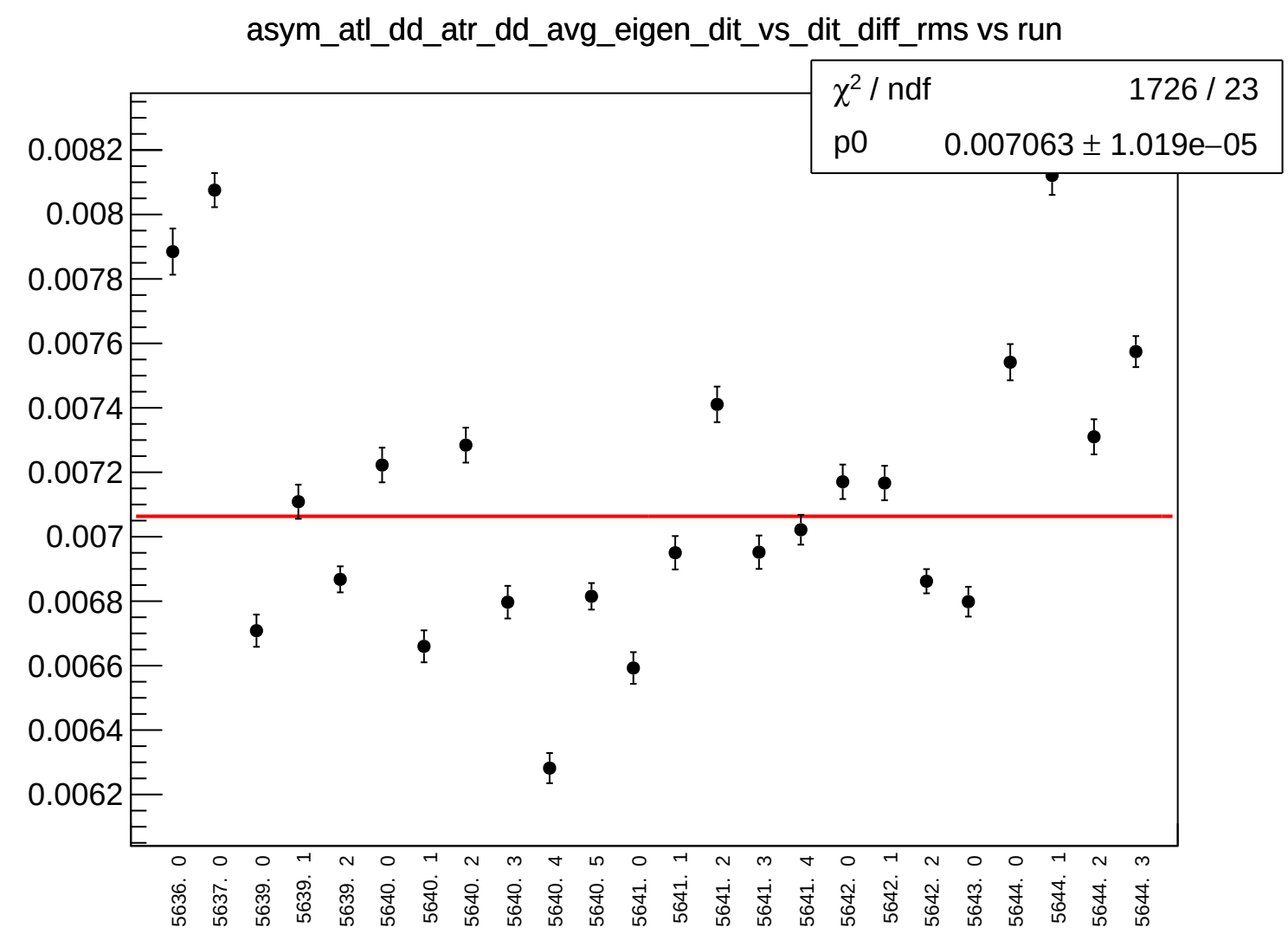

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 21.21 / 23
p0 0.08626 ± 0.1969
6
4
2
0
−2
−4
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −124.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.01649
Std Dev 0.94
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

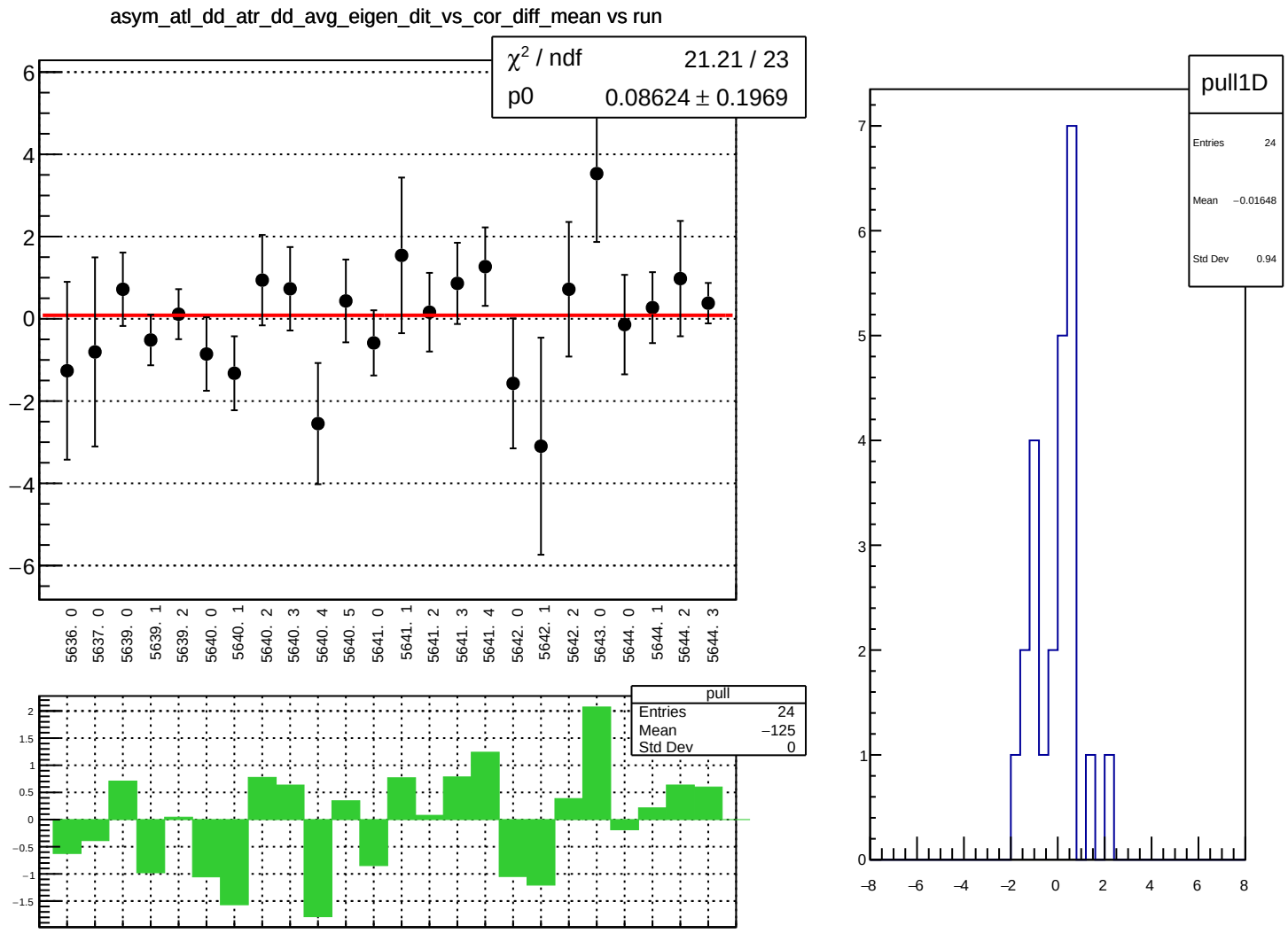

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.828e+04 / 23
p0 89.59 ± 0.1392
250
200
150
100
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

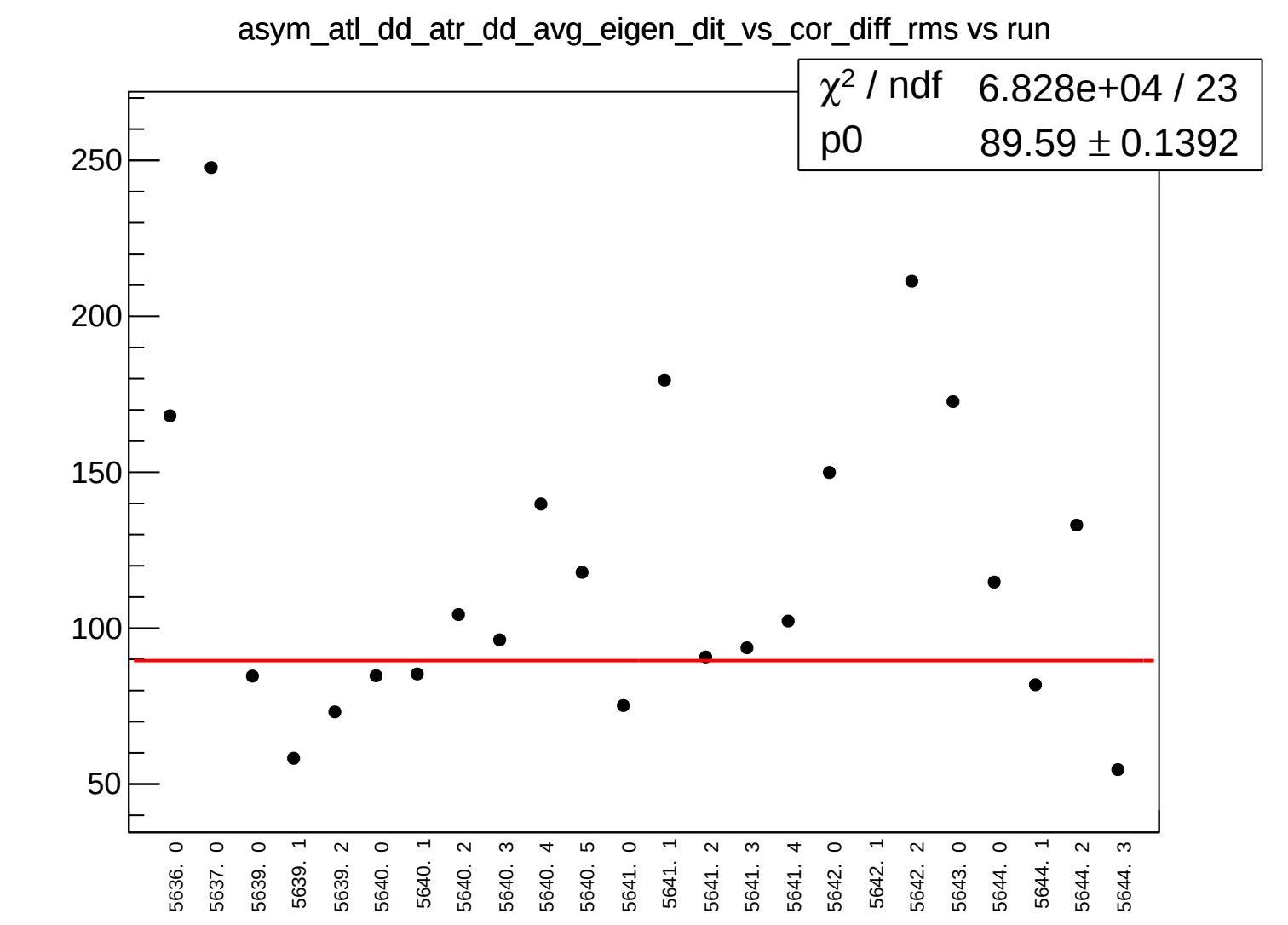

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 25.96 / 23
p0 −5.618e−06 ± 1.441e−05
0.2
0.1
0
−0.1
−0.2
−0.3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

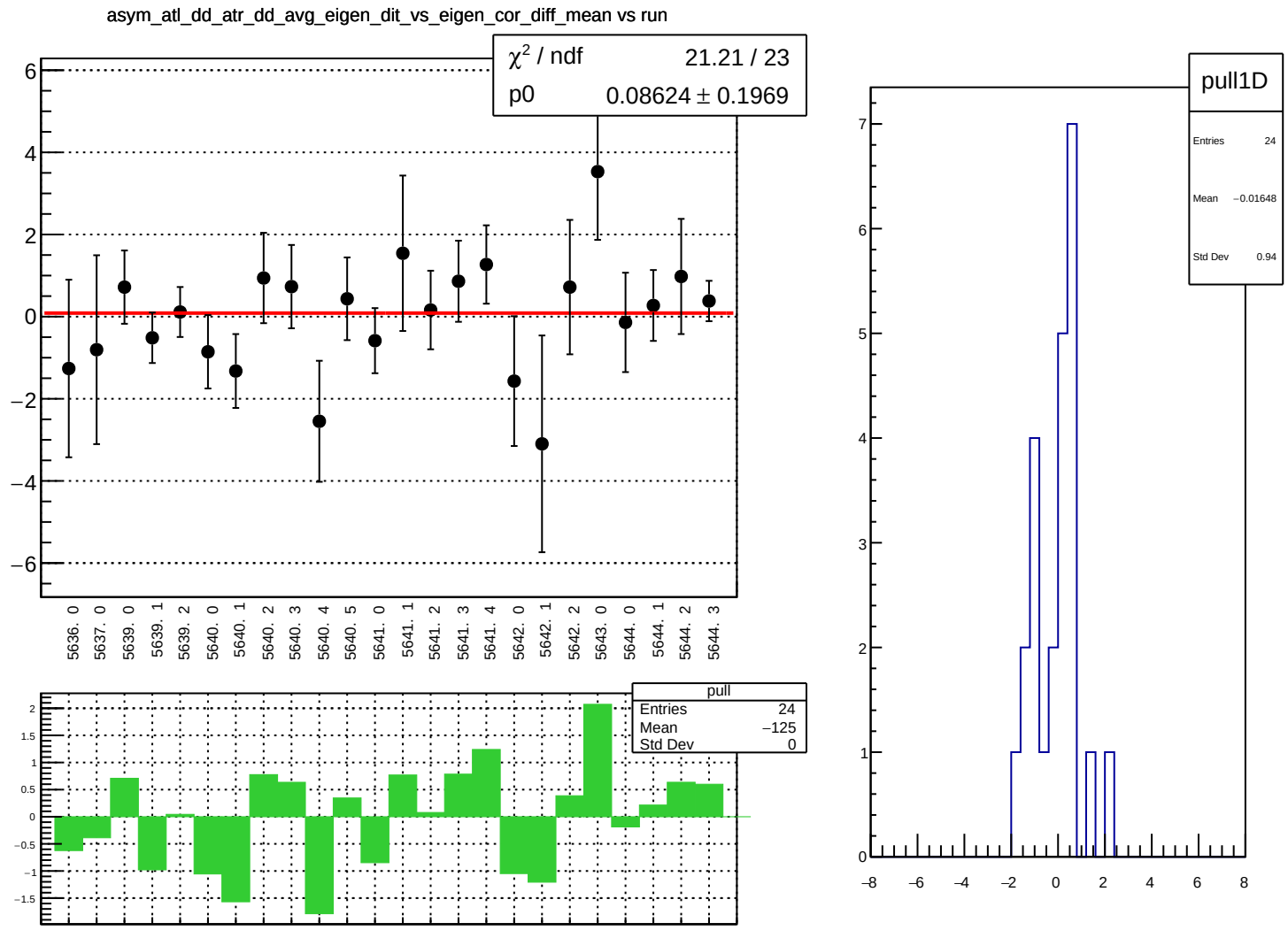

pull
Entries 24
Mean −51.29
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

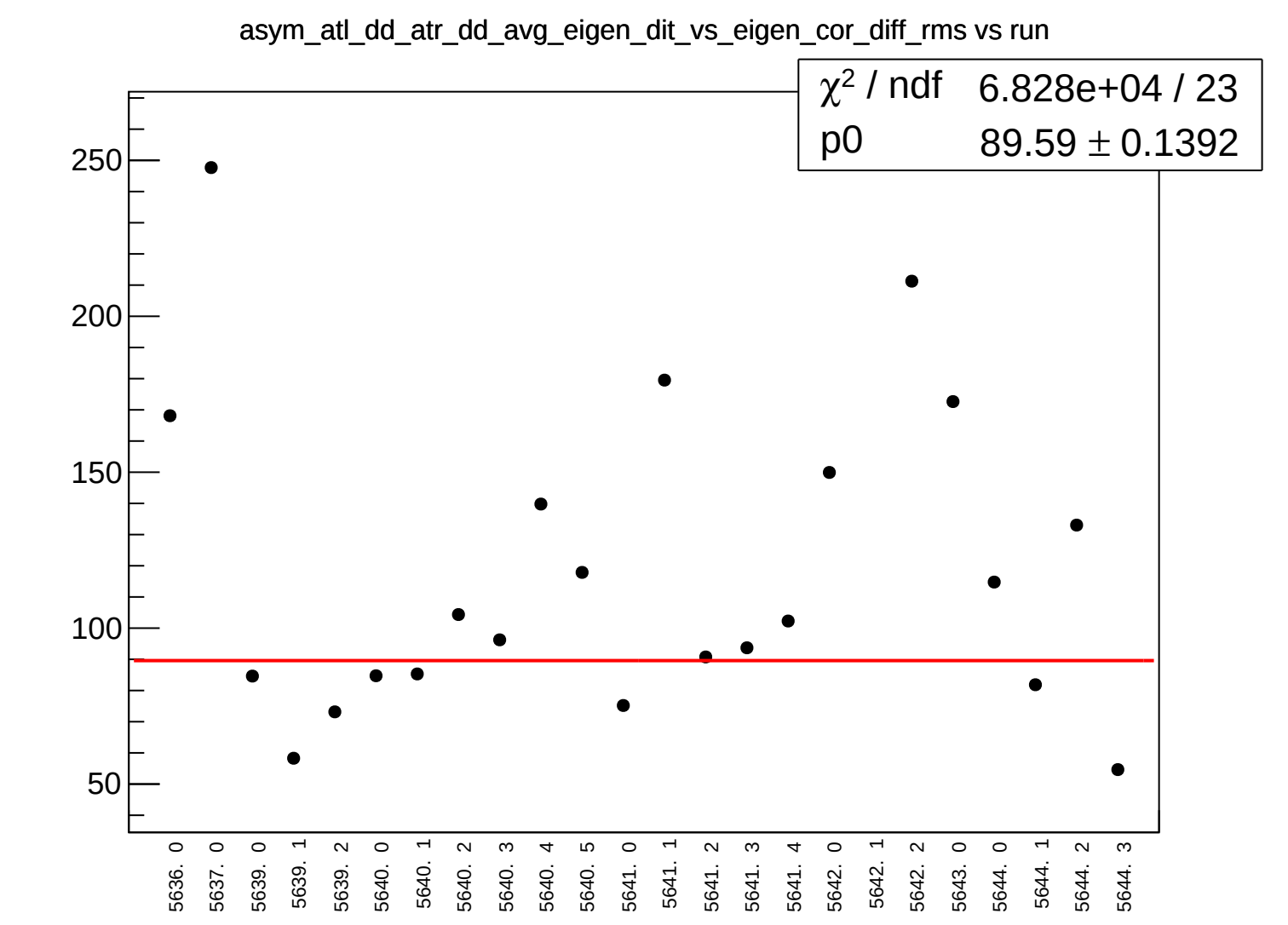

pull1D
Entries 24
Mean −0.03794
Std Dev 1.039
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

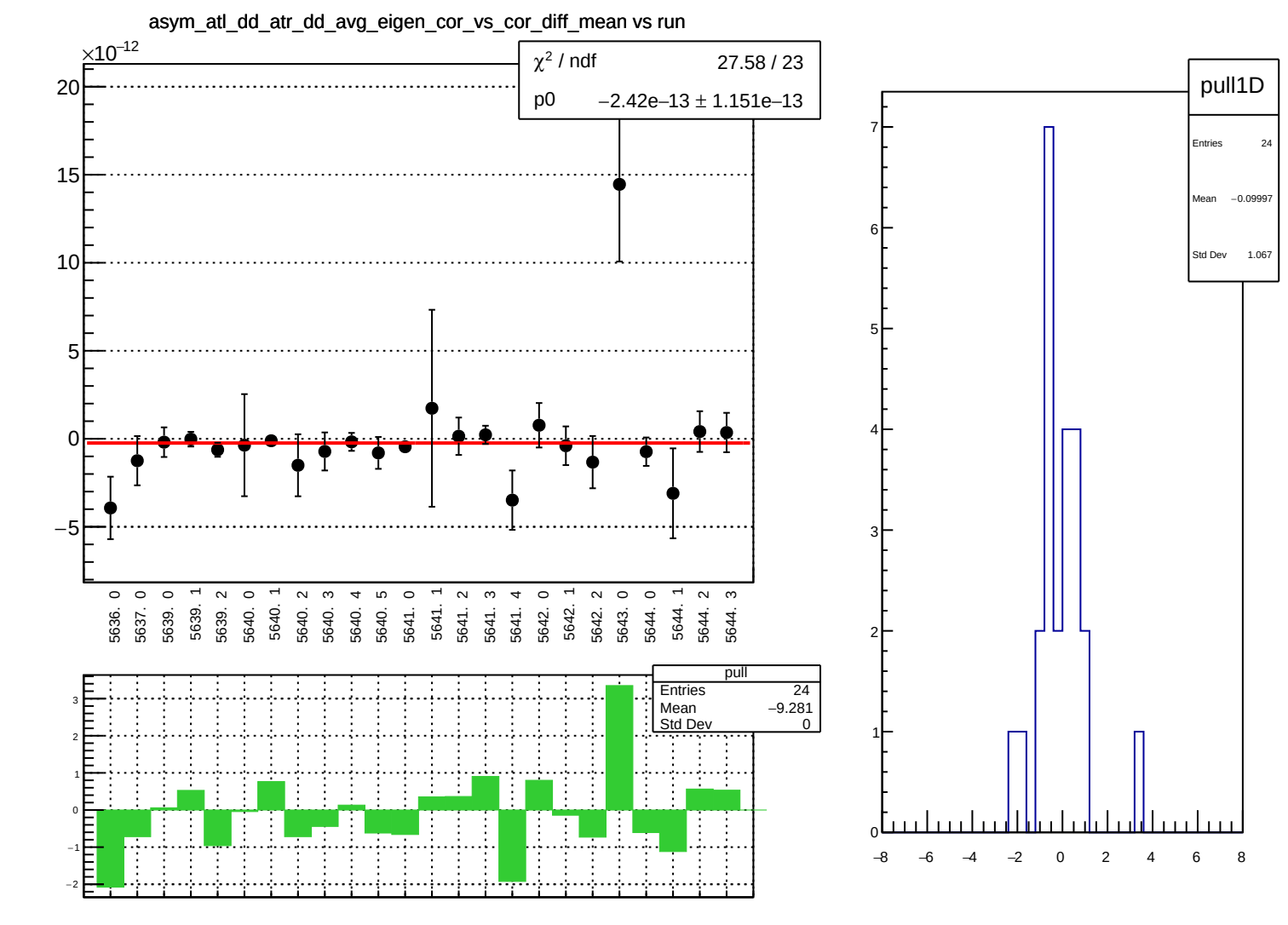

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1726 / 23
p0 0.007063 ± 1.019e−05
0.0082
0.008
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

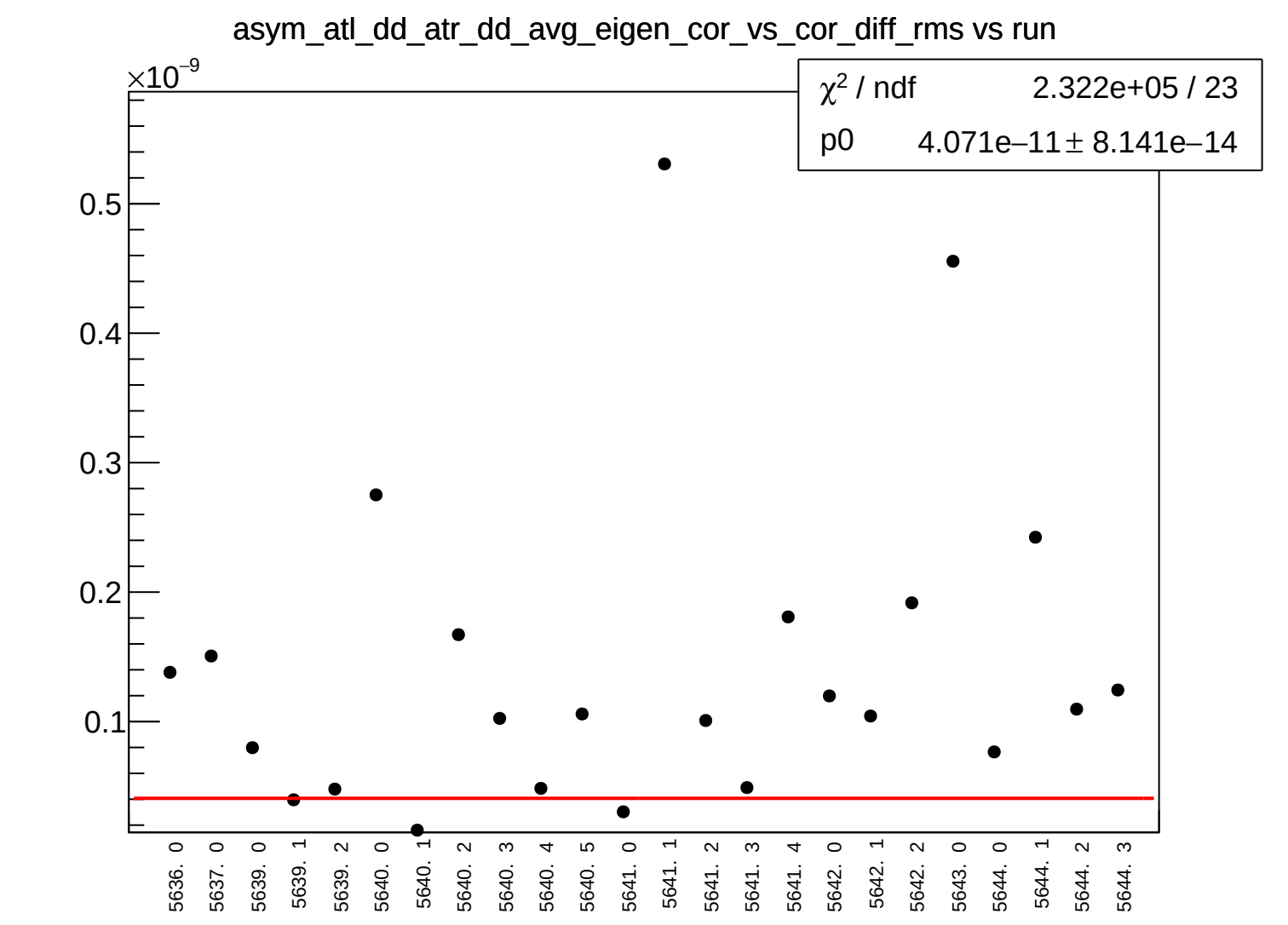

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 21.21 / 23
p0 0.08624 ± 0.1969
6
4
2
0
−2
−4
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −125
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.01648
Std Dev 0.94
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

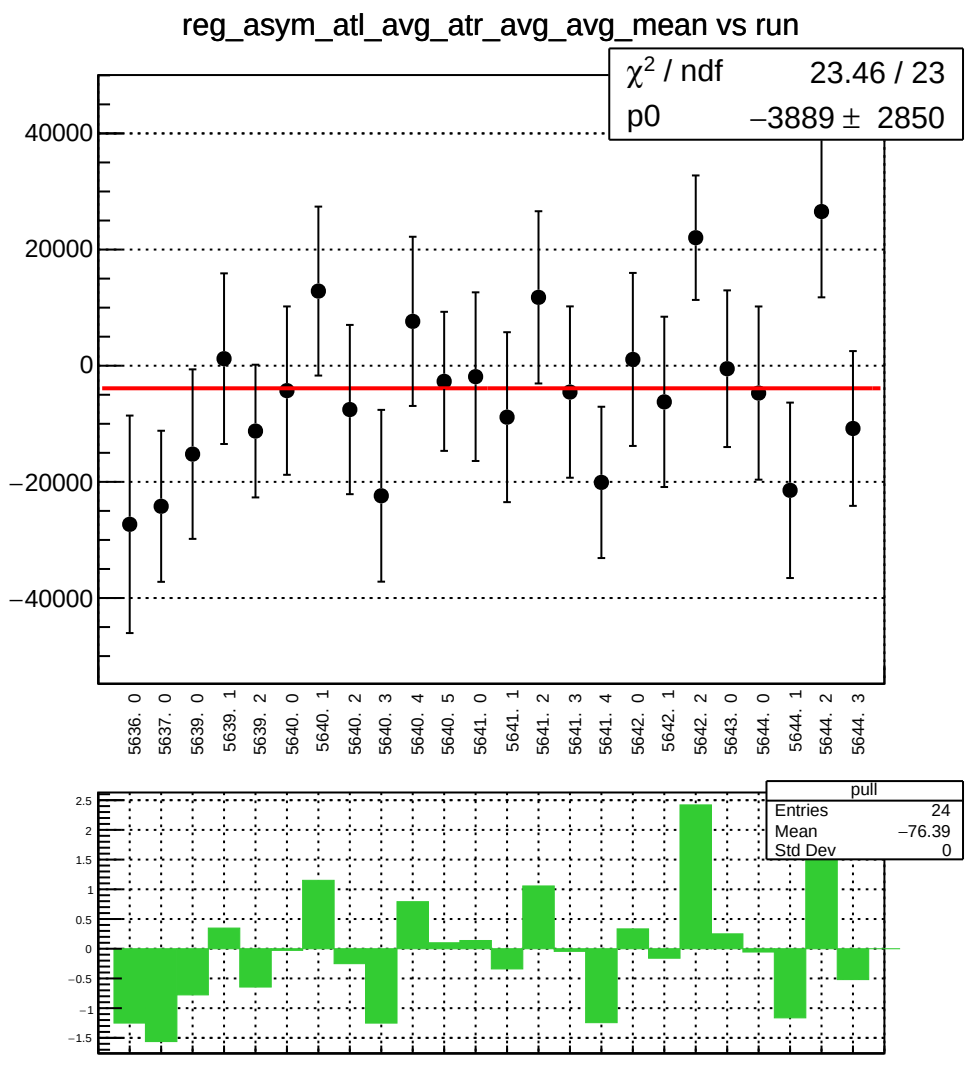

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.828e+04 / 23
p0 89.59 ± 0.1392
250
200
150
100
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

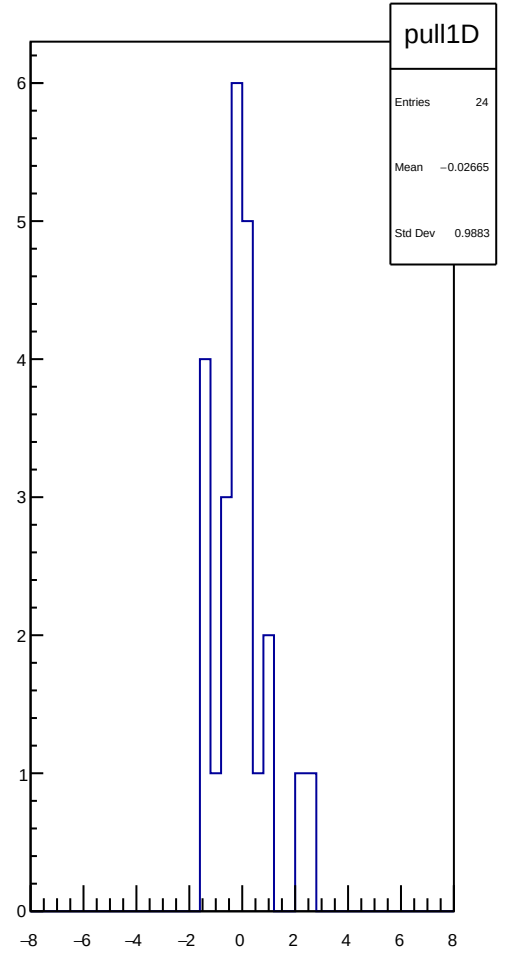

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 21.21 / 23
p0 0.08624 ± 0.1969
6
4
2
0
−2
−4
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −125
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.01648
Std Dev 0.94
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

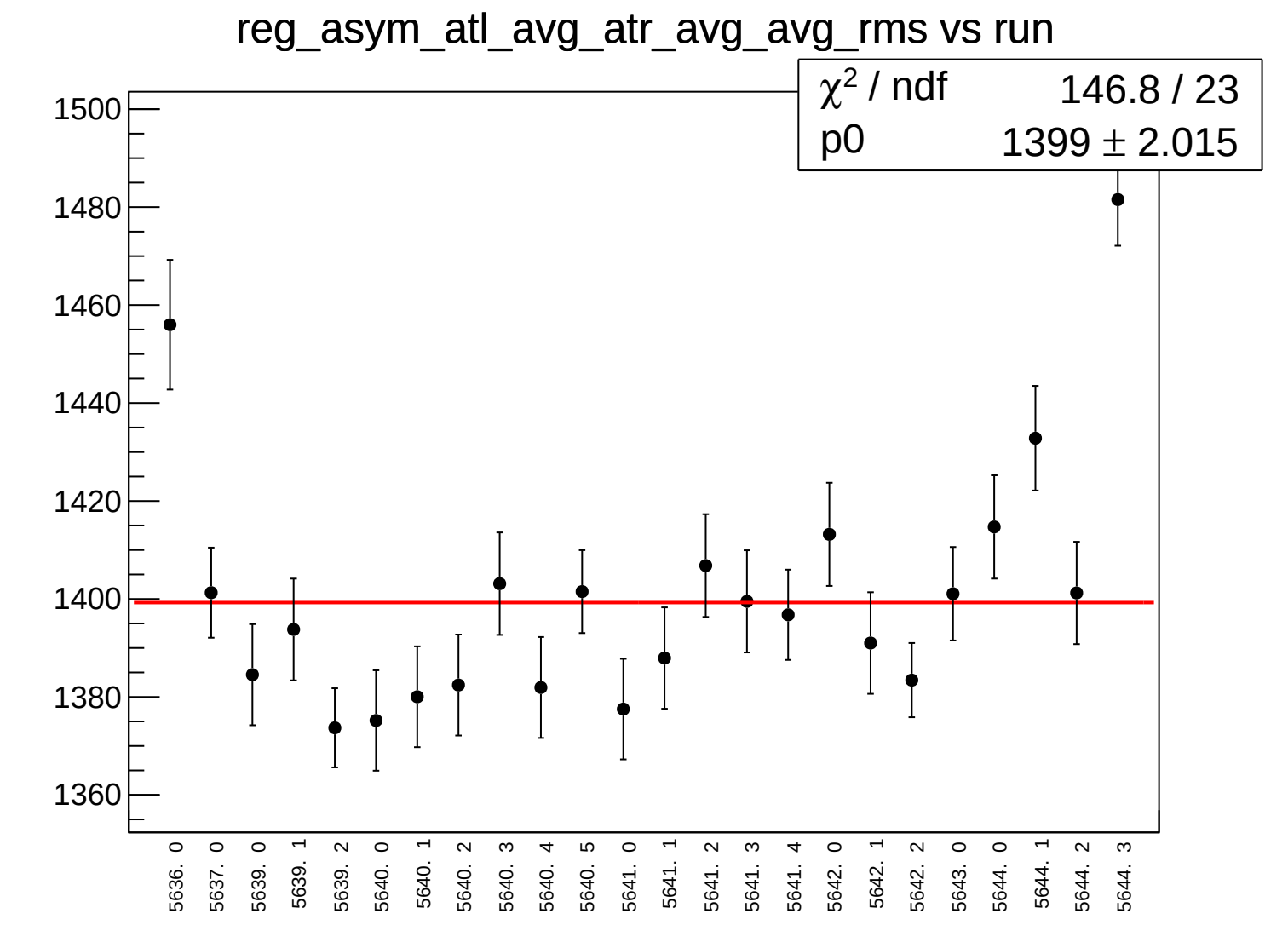

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.828e+04 / 23
p0 89.59 ± 0.1392
250
200
150
100
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

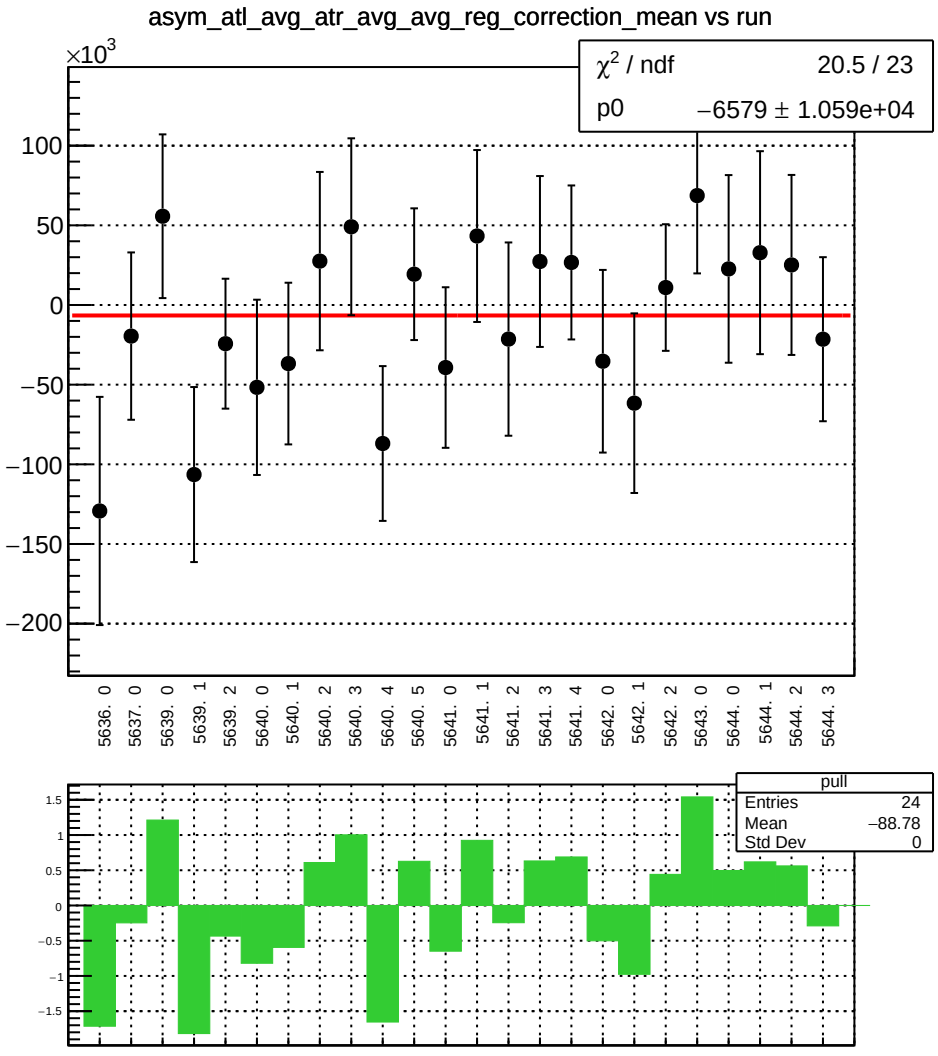

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 27.58 / 23
p0 −2.42e−13 ± 1.151e−13
20
15
10
5
0
−5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −9.281
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 24
Mean −0.09997
Std Dev 1.067
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

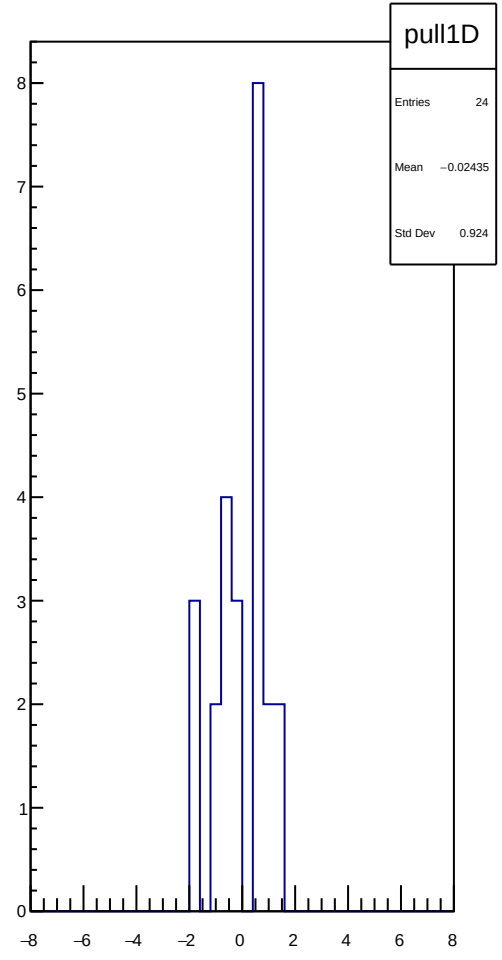

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.322e+05 / 23
p0 4.071e−11 ± 8.141e−14
0.5
0.4
0.3
0.2
0.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

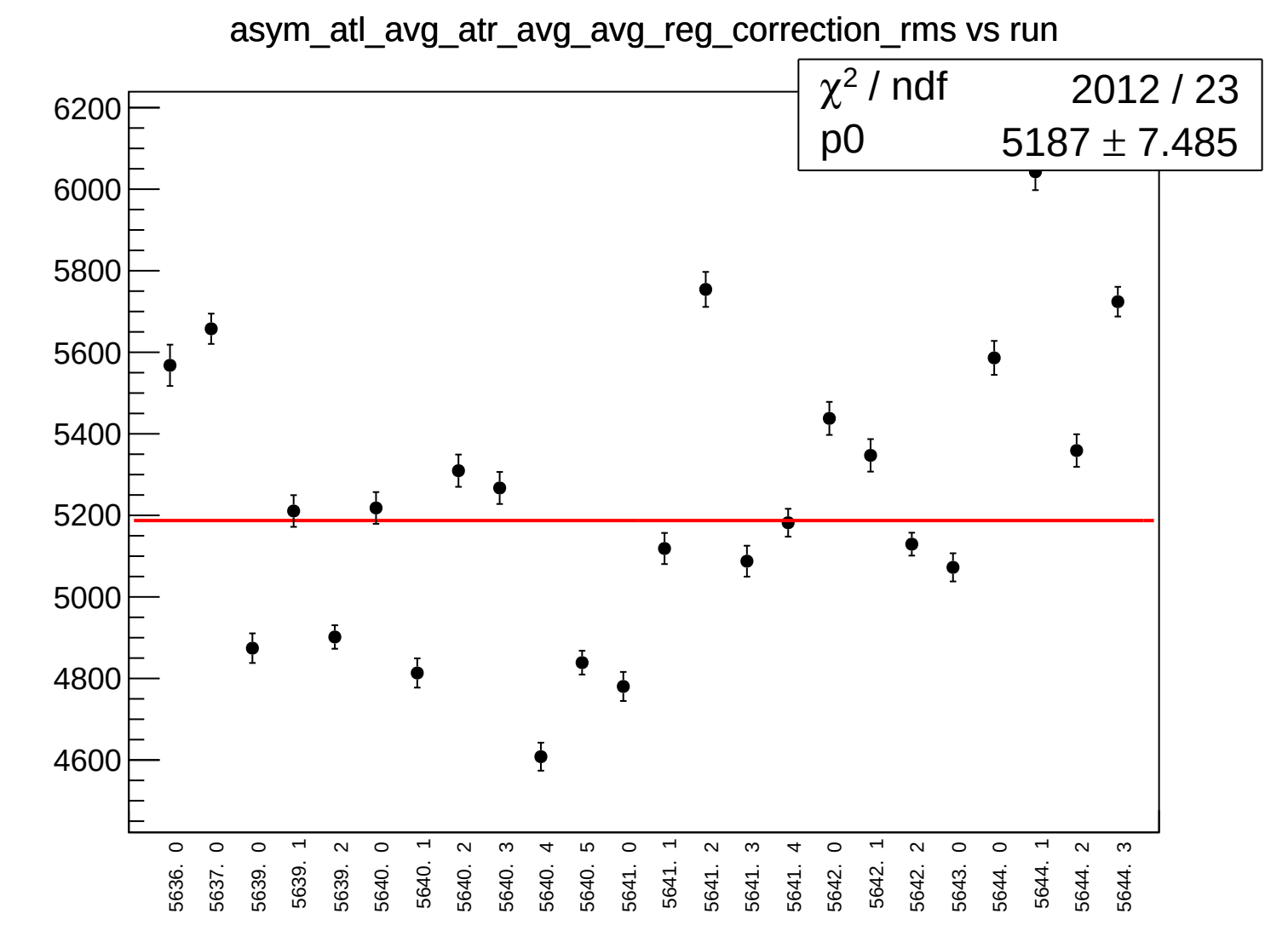

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 23.46 / 23
p0 −3889 ± 2850
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −76.39
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

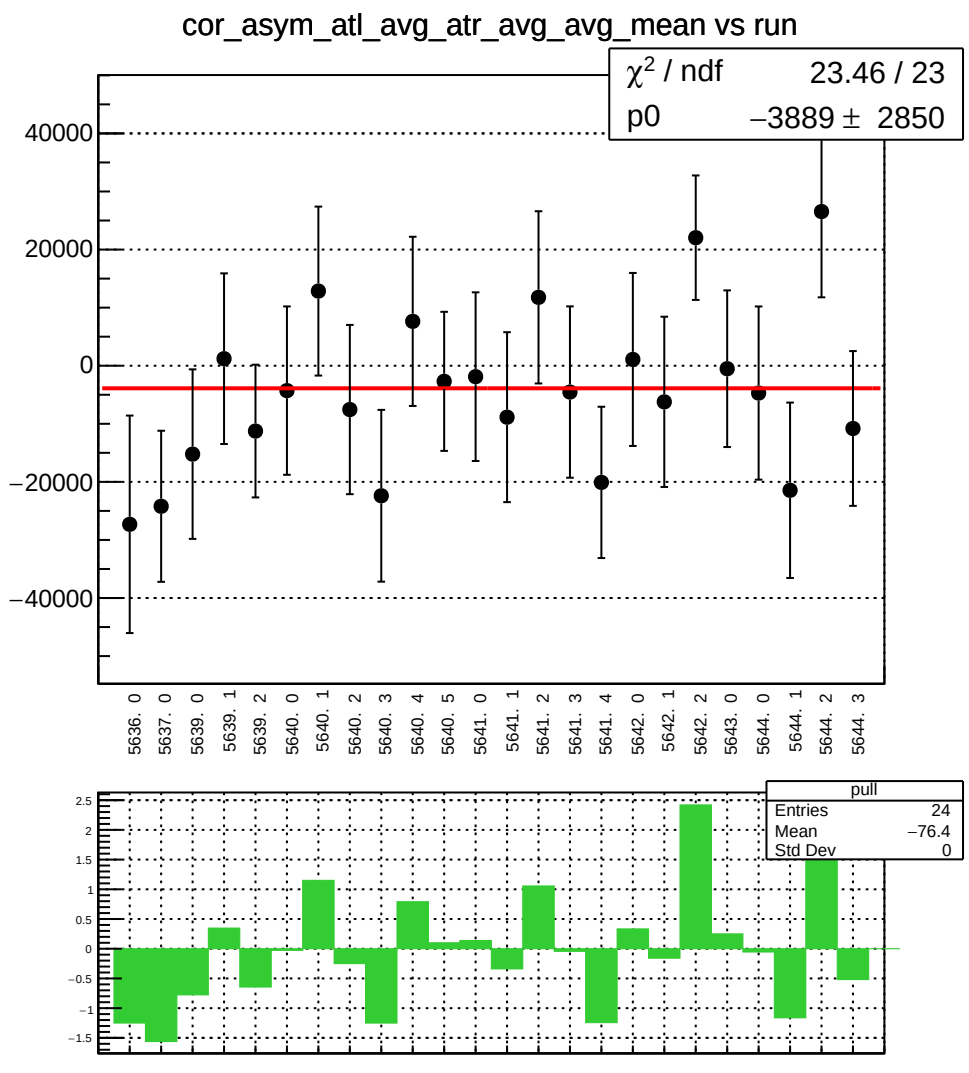

pull1D
Entries 24
Mean −0.02665
Std Dev 0.9883
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

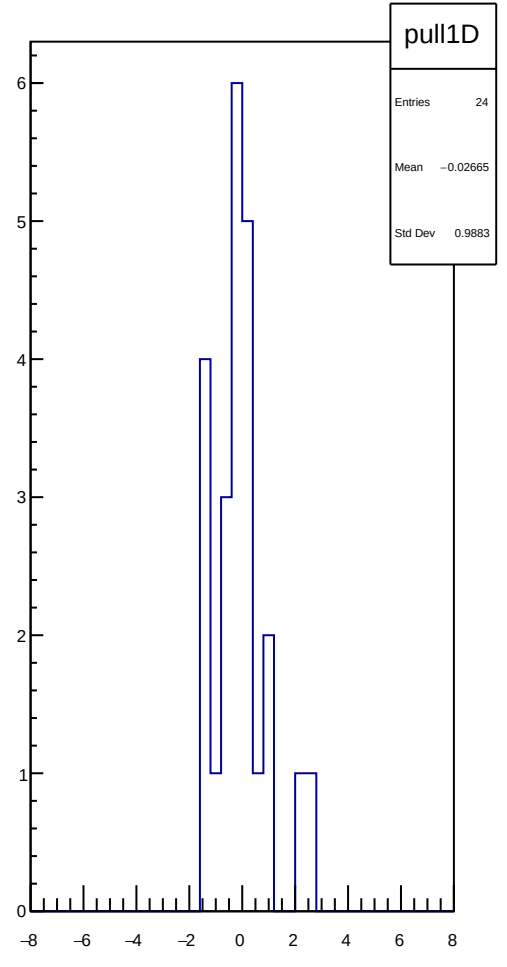

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 146.8 / 23
p0 1399 ± 2.015
1500
1480
1460
1440
1420
1400
1380
1360
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

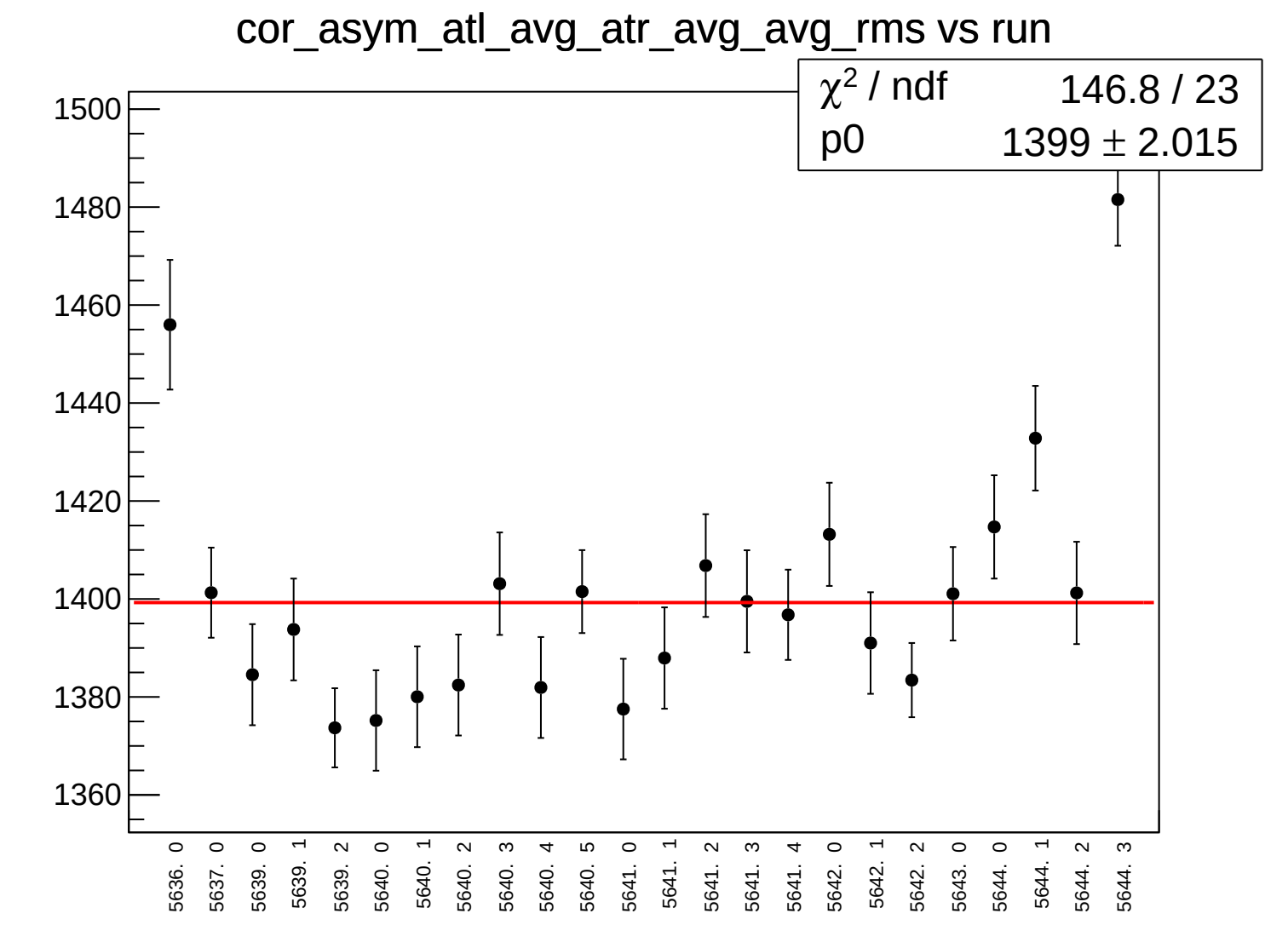

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 20.5 / 23
p0 −6579 ± 1.059e+04
100
50
0
−50
−100
−150
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −88.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

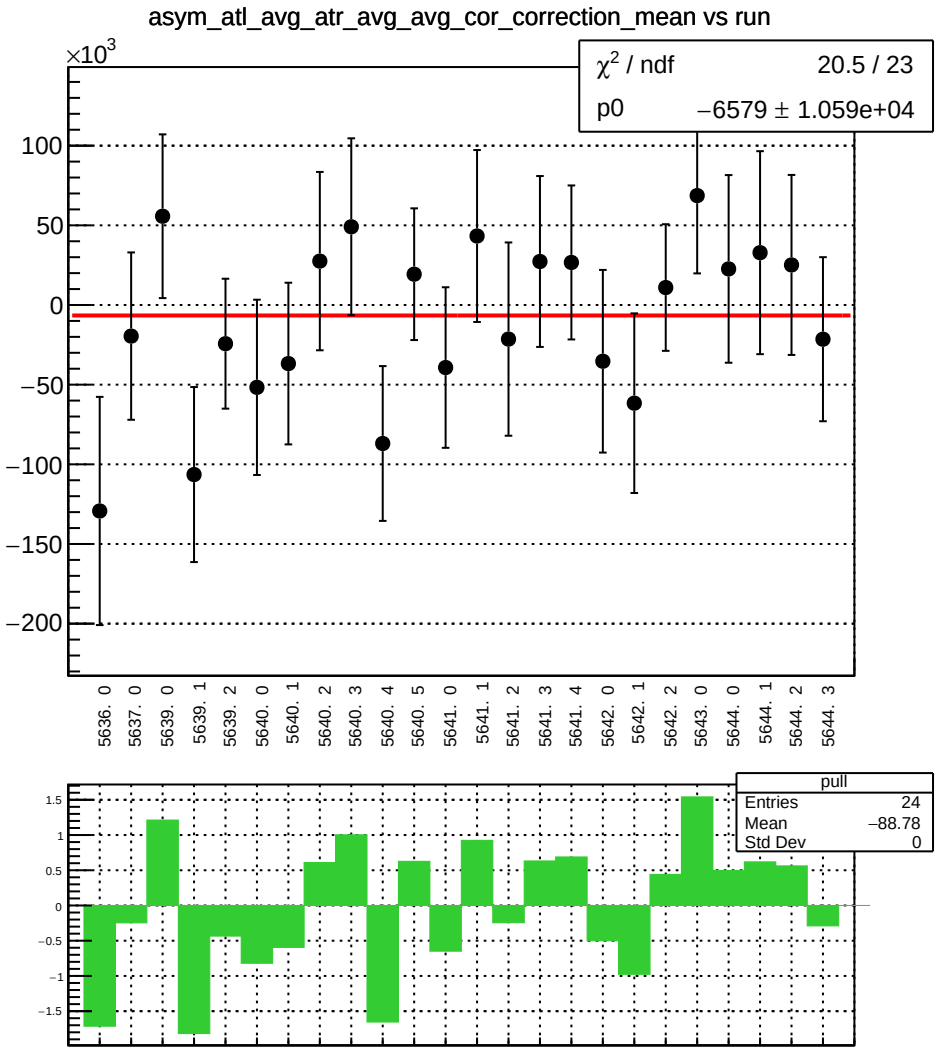

pull1D
Entries 24
Mean −0.02435
Std Dev 0.924
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

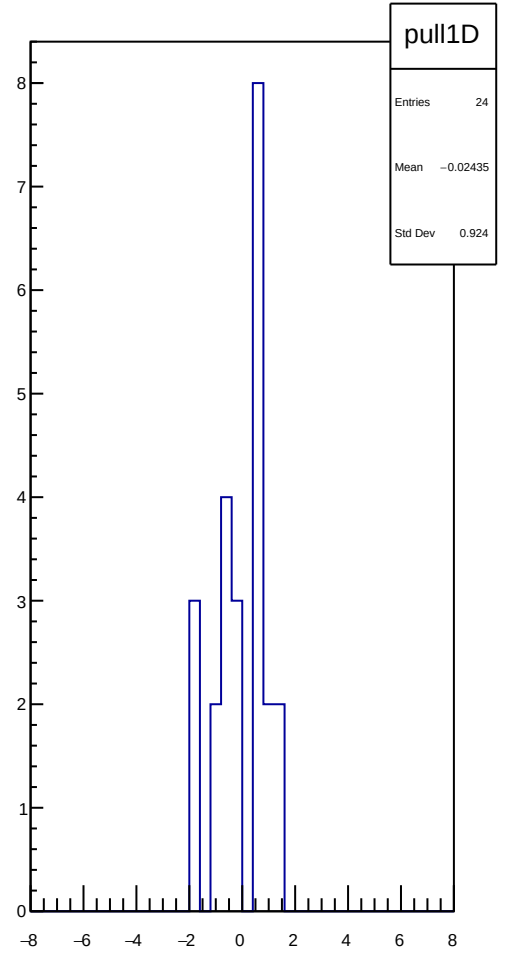

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 2012 / 23
p0 5187 ± 7.485
6200
6000
5800
5600
5400
5200
5000
4800
4600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

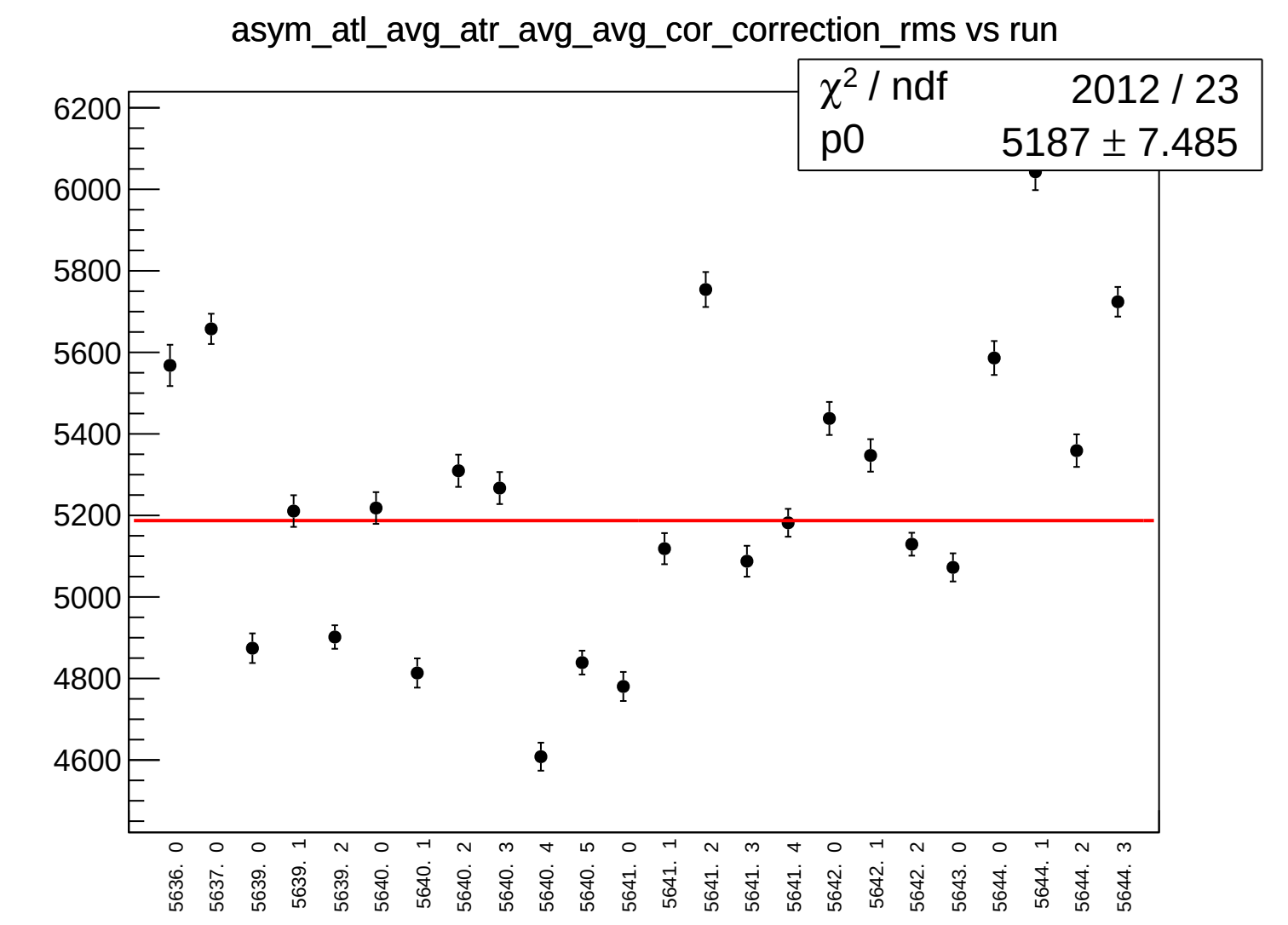

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 23.46 / 23
p0 −3889 ± 2850
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −76.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean −0.02665
Std Dev 0.9883
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 146.8 / 23
p0 1399 ± 2.015
1500
1480
1460
1440
1420
1400
1380
1360
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 20.5 / 23
p0 −6579 ± 1.059e+04
100
50
0
−50
−100
−150
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −88.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean −0.02435
Std Dev 0.924
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 2012 / 23
p0 5187 ± 7.485
6200
6000
5800
5600
5400
5200
5000
4800
4600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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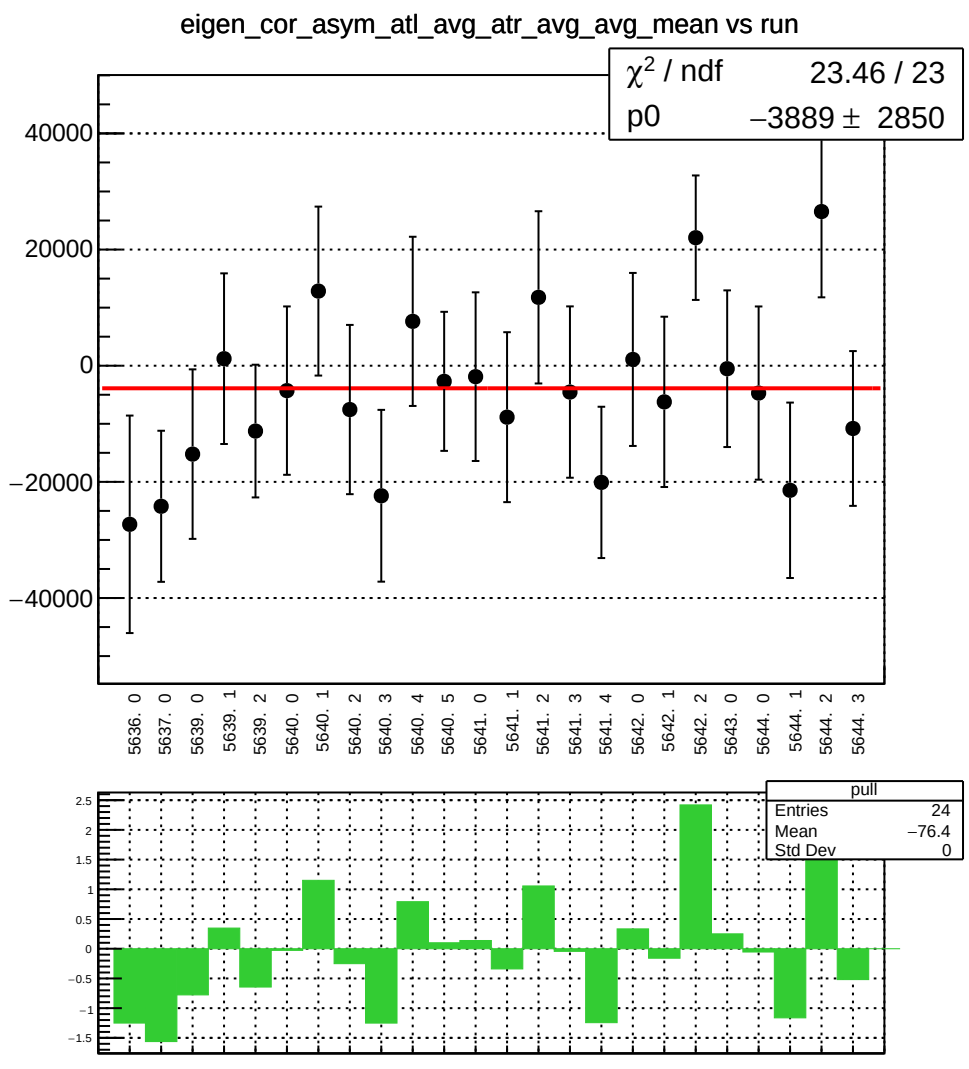
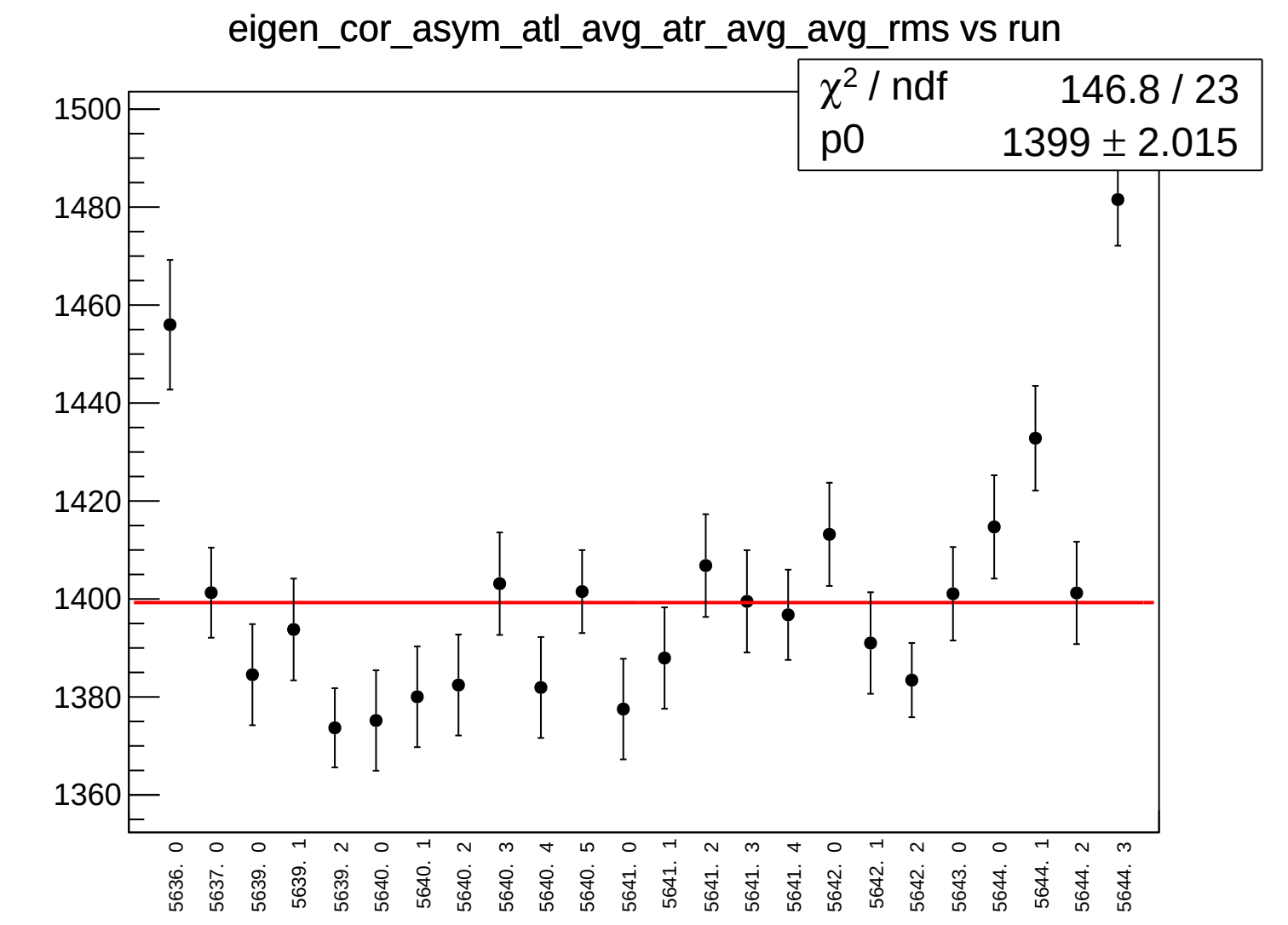
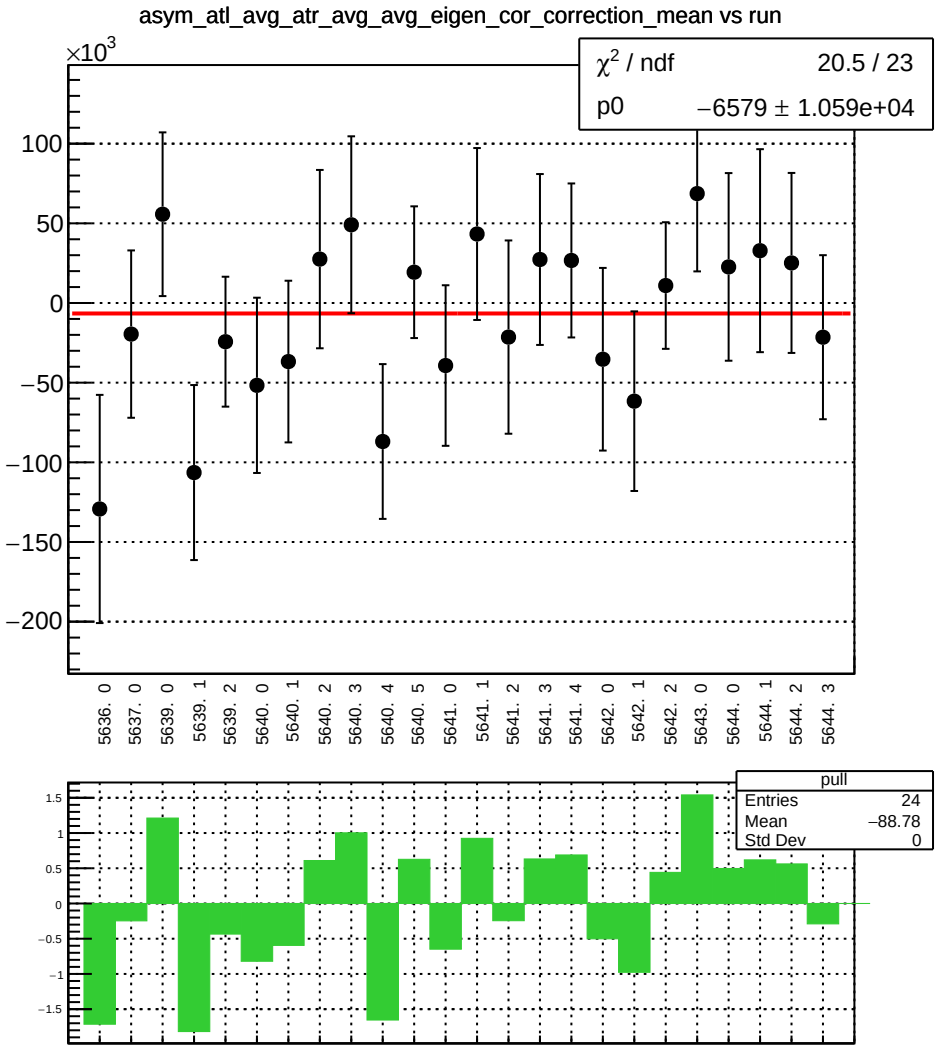
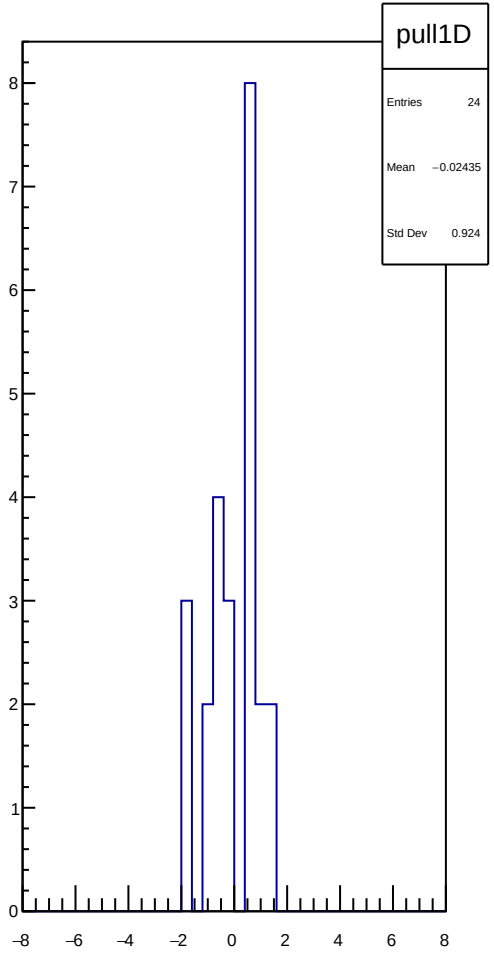
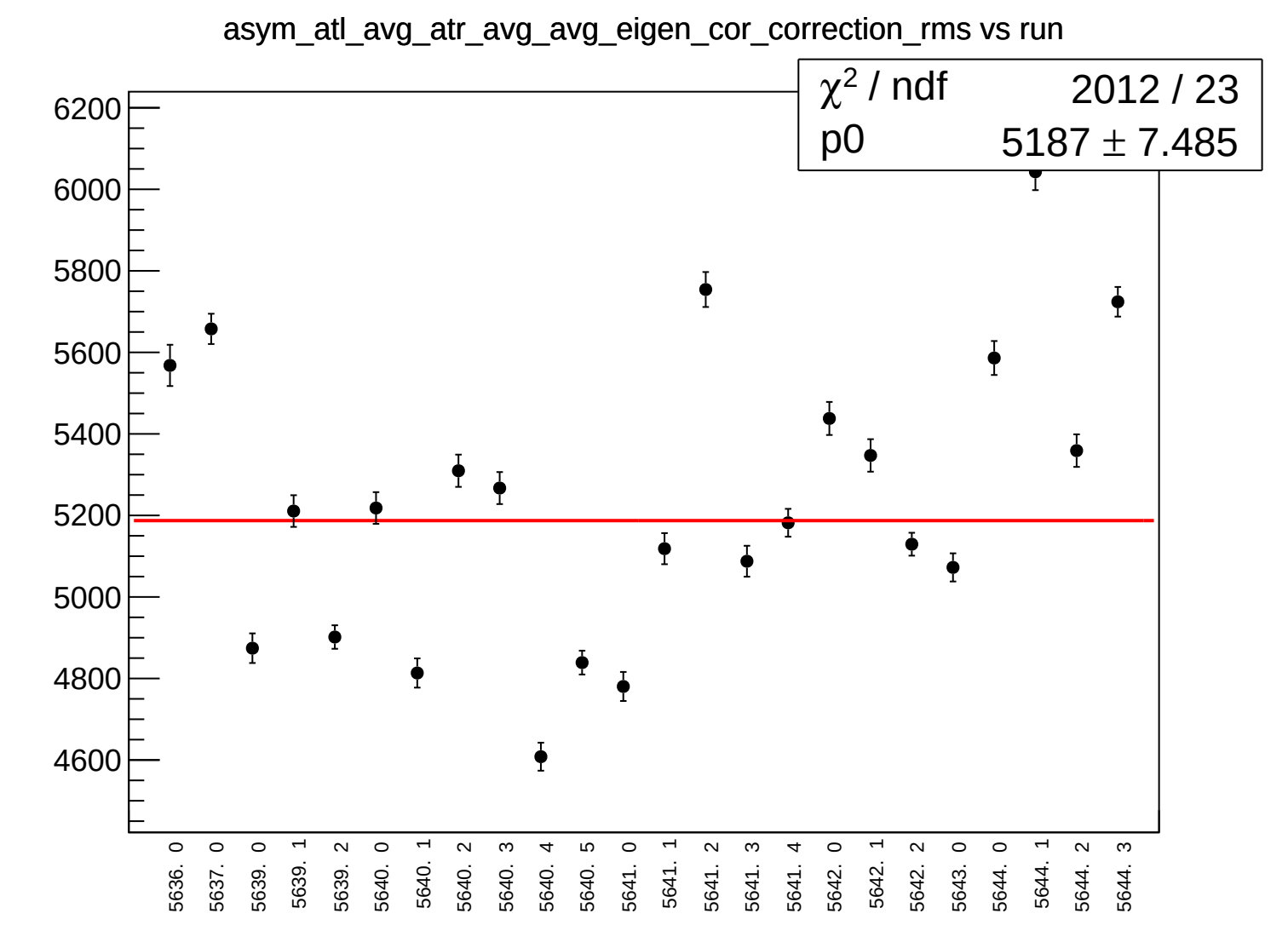
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

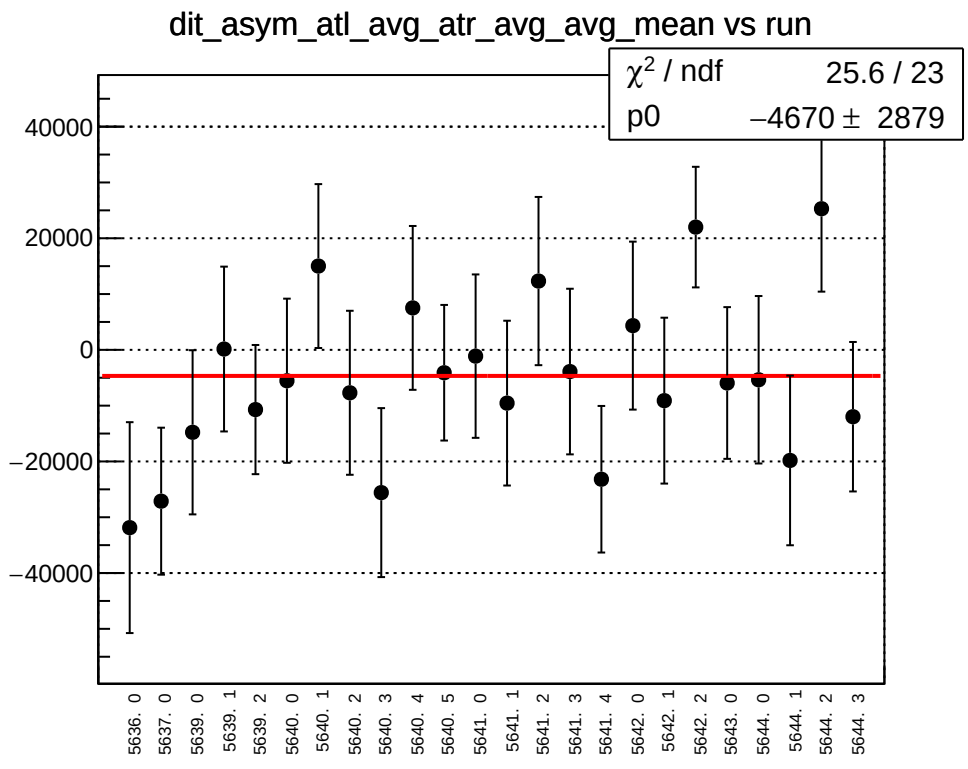

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 23.46 / 23
p0 −3889 ± 2850
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −76.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.02665
Std Dev 0.9883
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

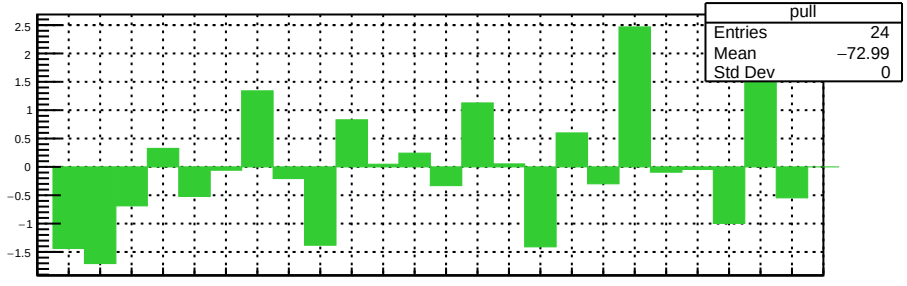

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 146.8 / 23
p0 1399 ± 2.015
1500
1480
1460
1440
1420
1400
1380
1360
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

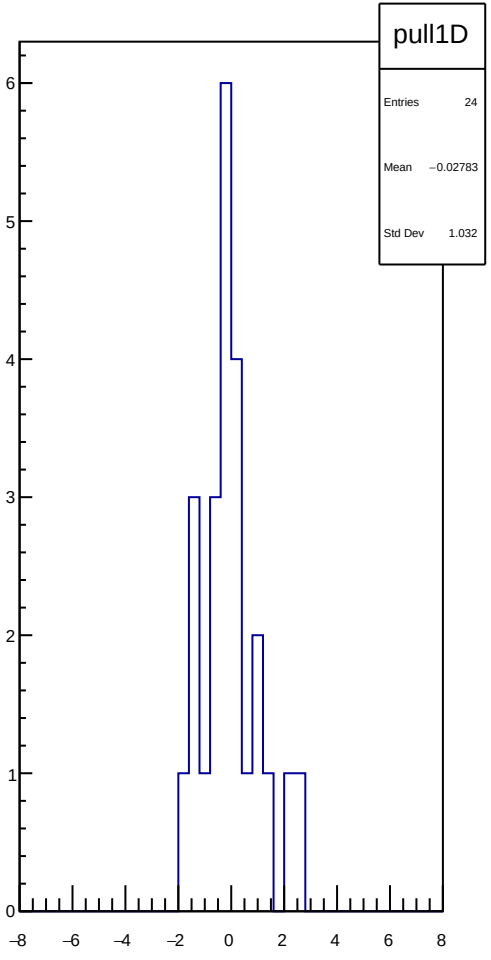

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 20.5 / 23
p0 −6579 ± 1.059e+04
100
50
0
−50
−100
−150
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −88.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

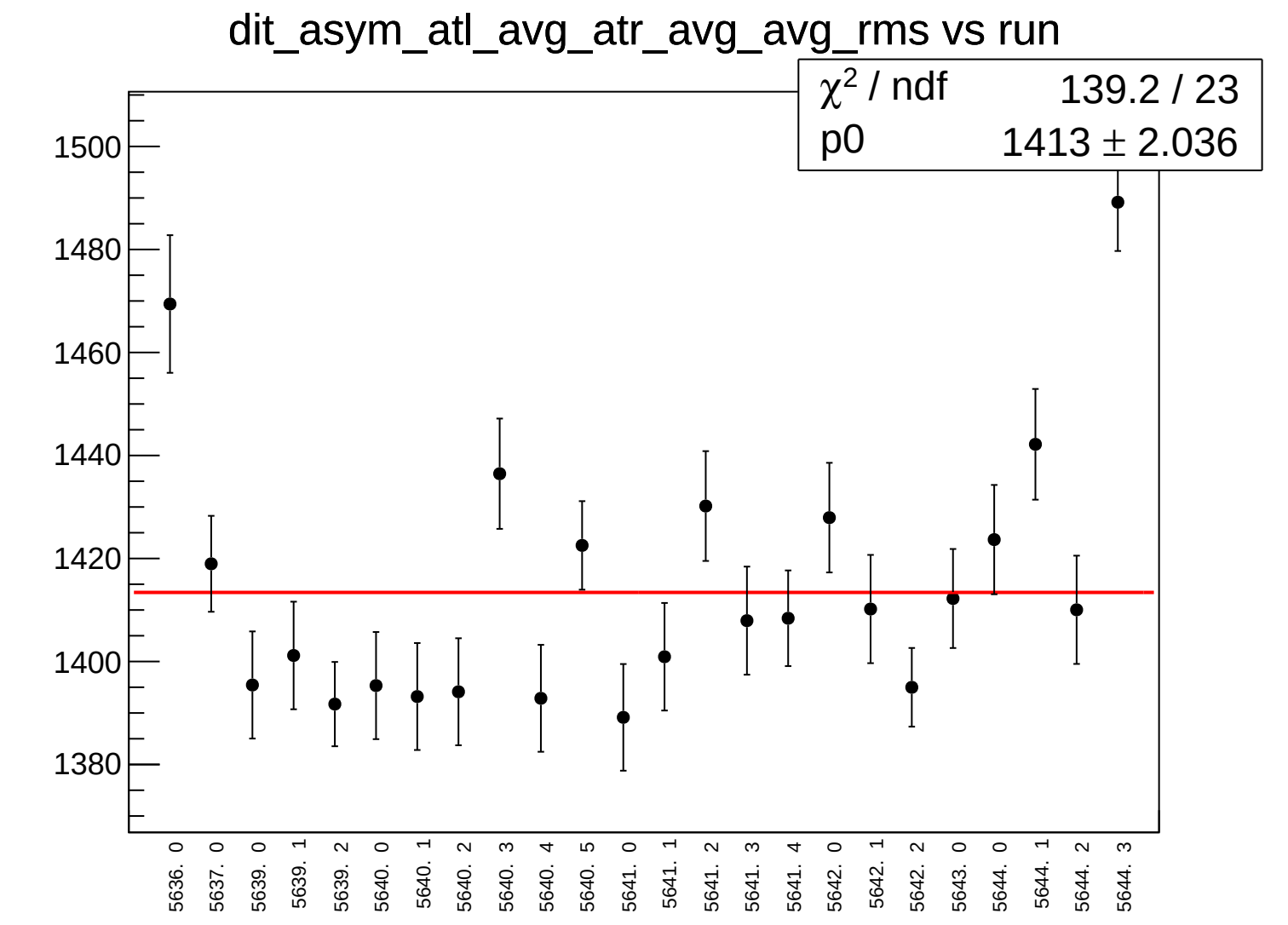

pull1D
Entries 24
Mean −0.02435
Std Dev 0.924
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

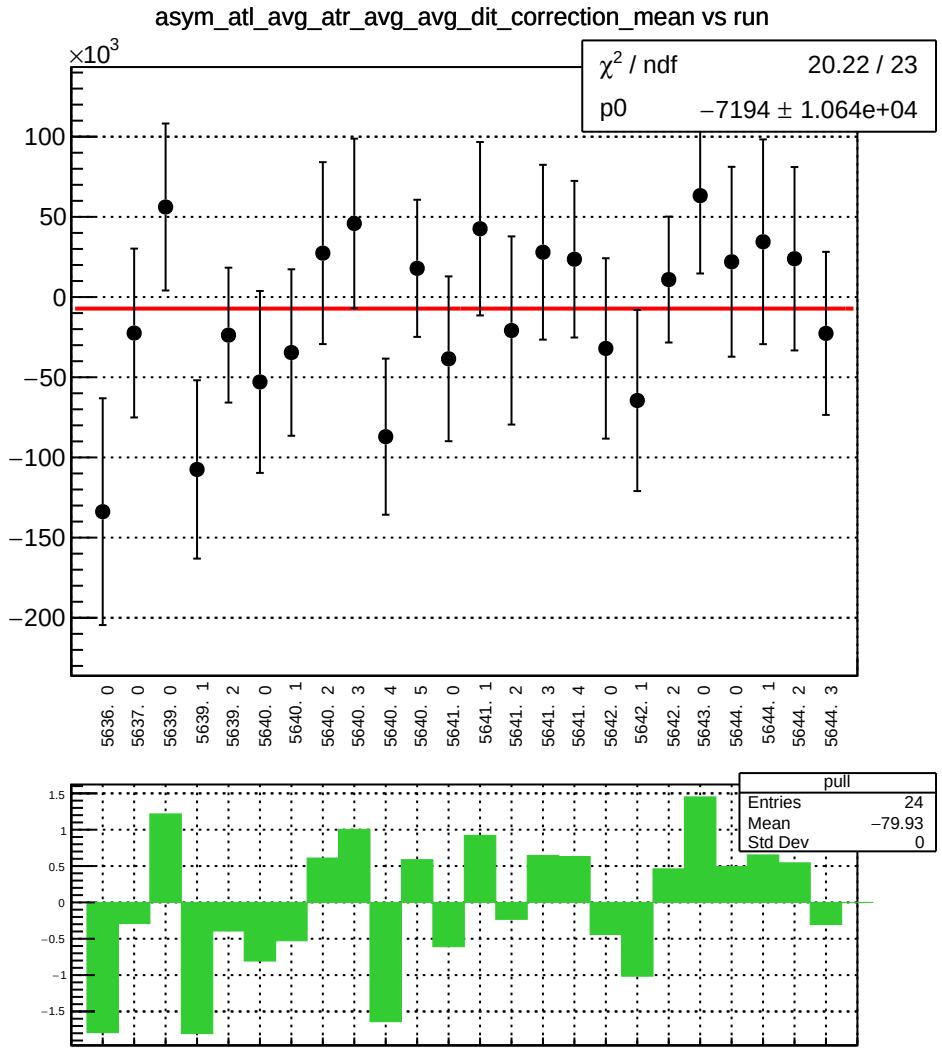

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 2012 / 23
p0 5187 ± 7.485
6200
6000
5800
5600
5400
5200
5000
4800
4600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

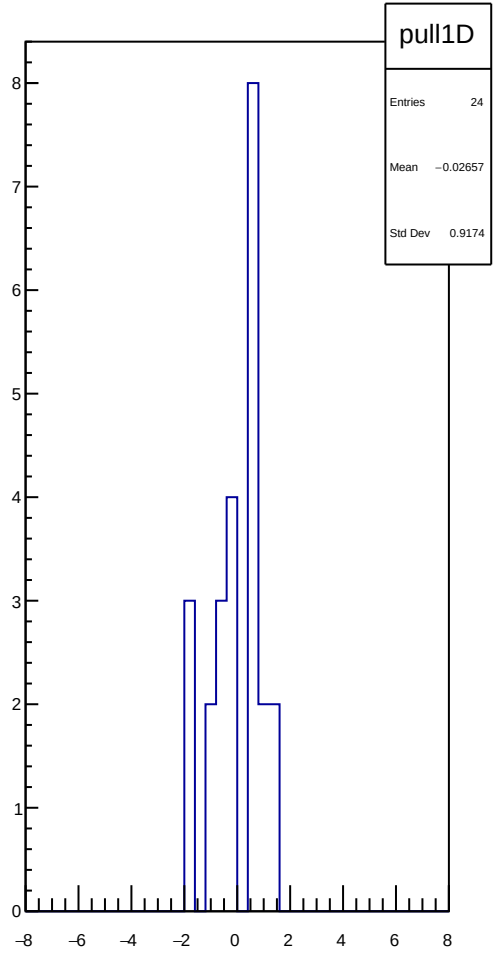

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 25.6 / 23
p0 −4670 ± 2879
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

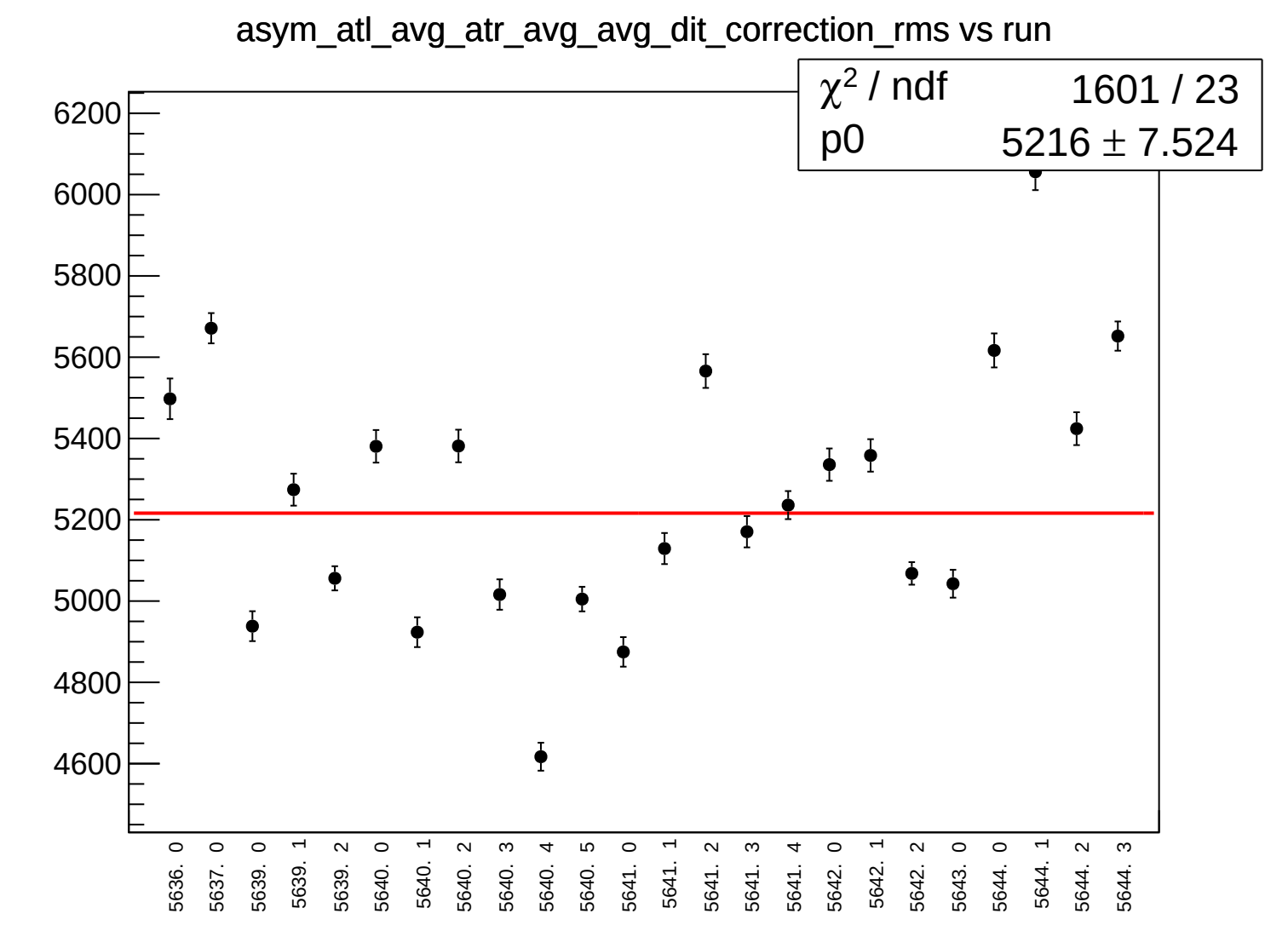

pull
Entries 24
Mean −72.99
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

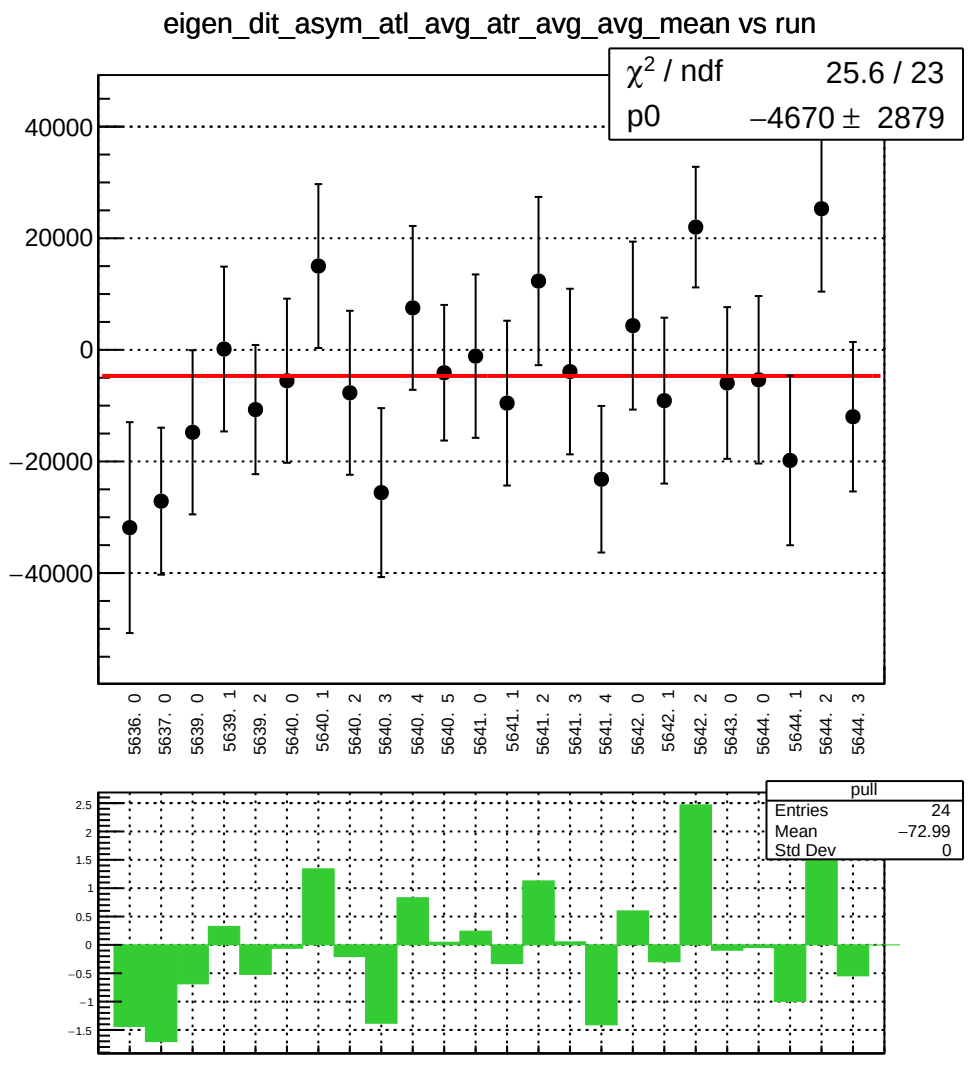

pull1D
Entries 24
Mean −0.02783
Std Dev 1.032
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

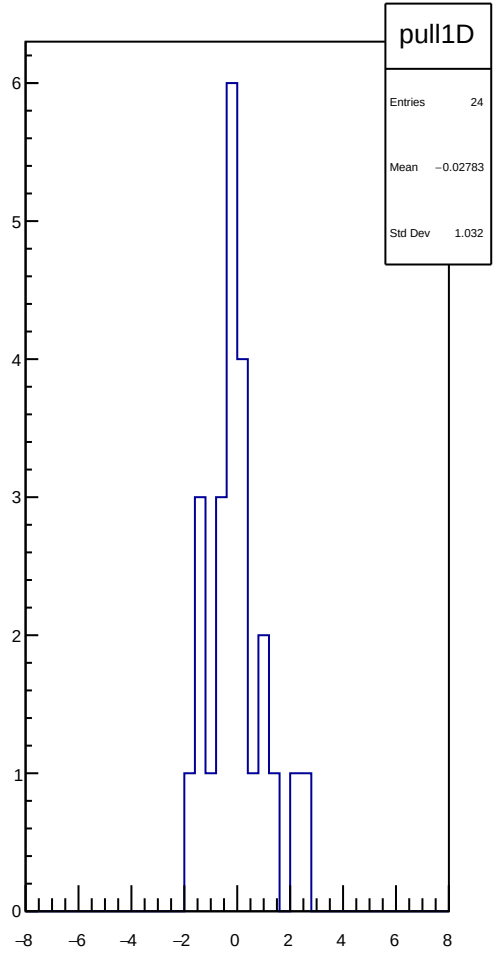

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 139.2 / 23
p0 1413 ± 2.036
1500
1480
1460
1440
1420
1400
1380
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

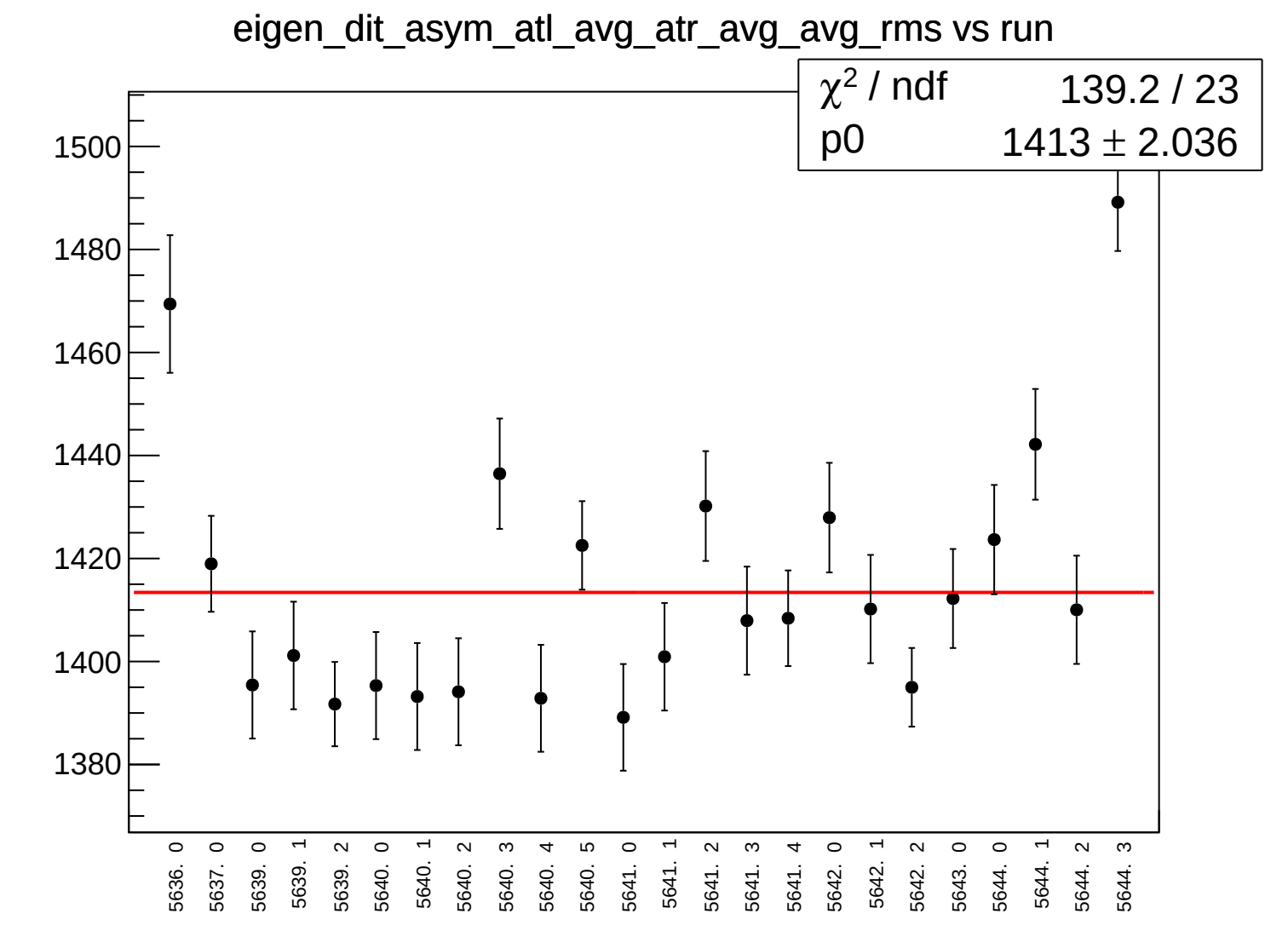

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 20.22 / 23
p0 −7194 ± 1.064e+04
100
50
0
−50
−100
−150
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −79.93
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

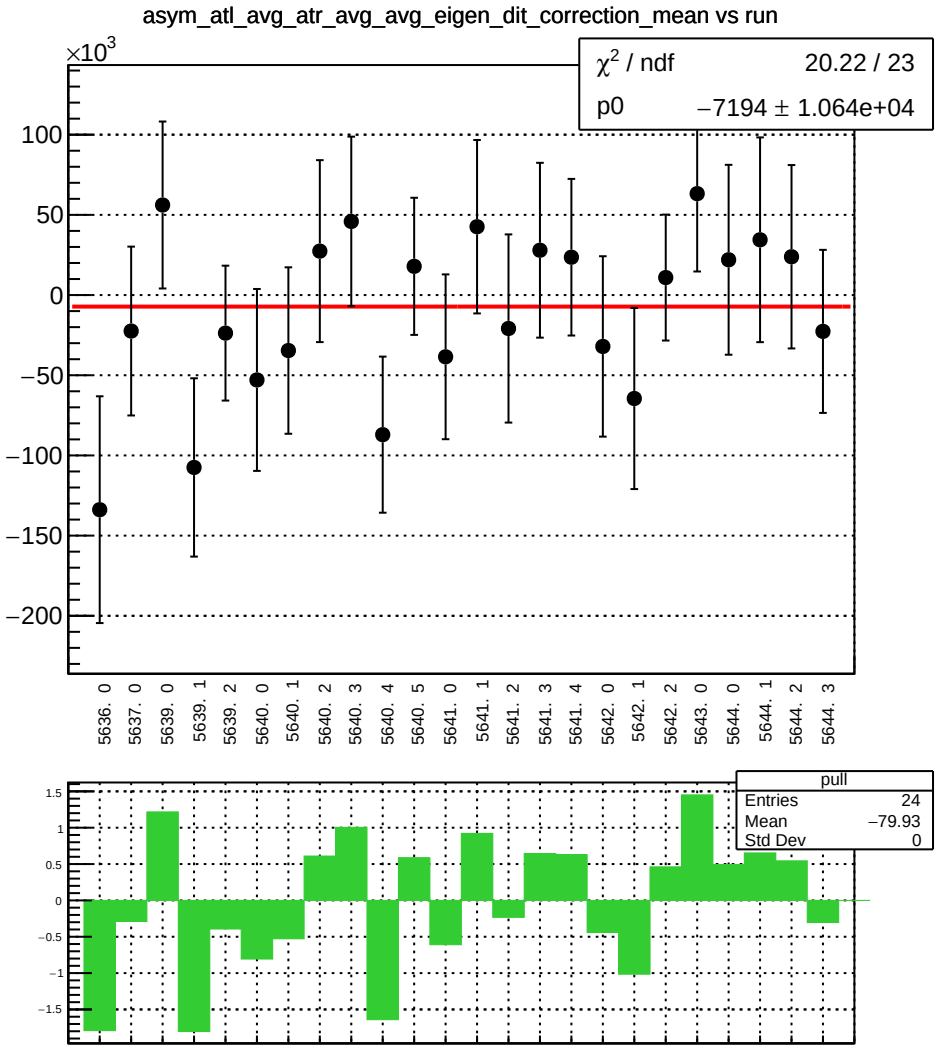

pull1D
Entries 24
Mean −0.02657
Std Dev 0.9174
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

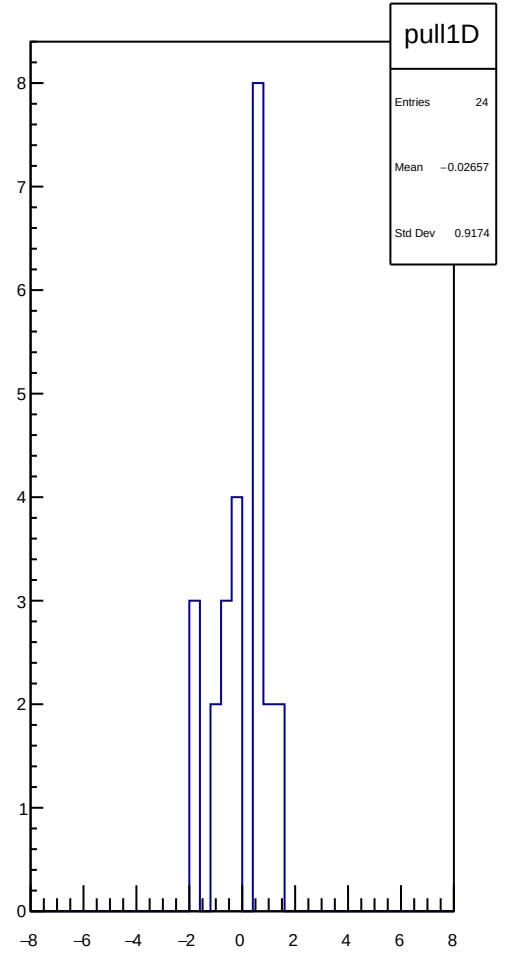

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 1601 / 23
p0 5216 ± 7.524
6200
6000
5800
5600
5400
5200
5000
4800
4600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

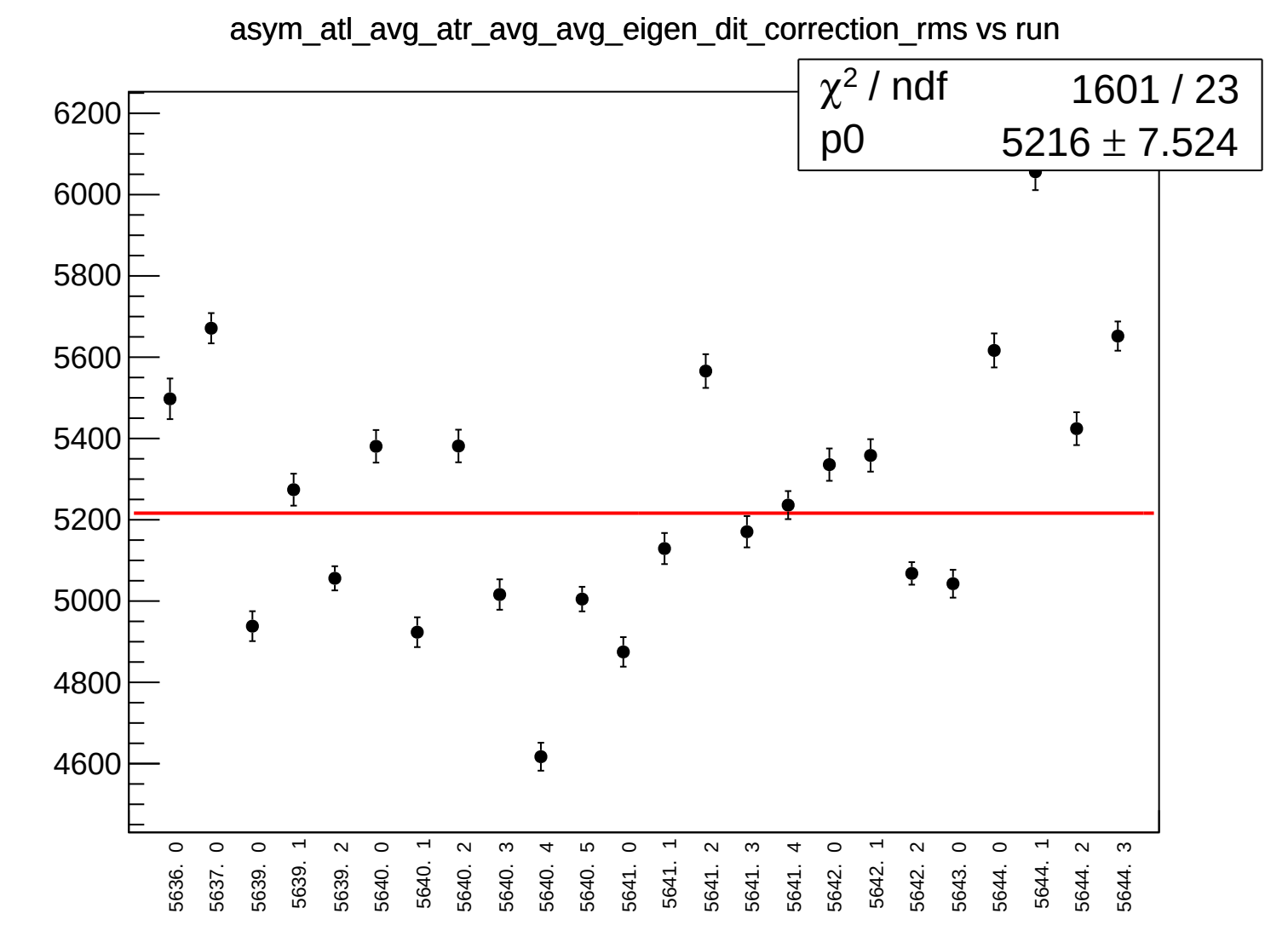

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 25.6 / 23
p0 −4670 ± 2879
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −72.99
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

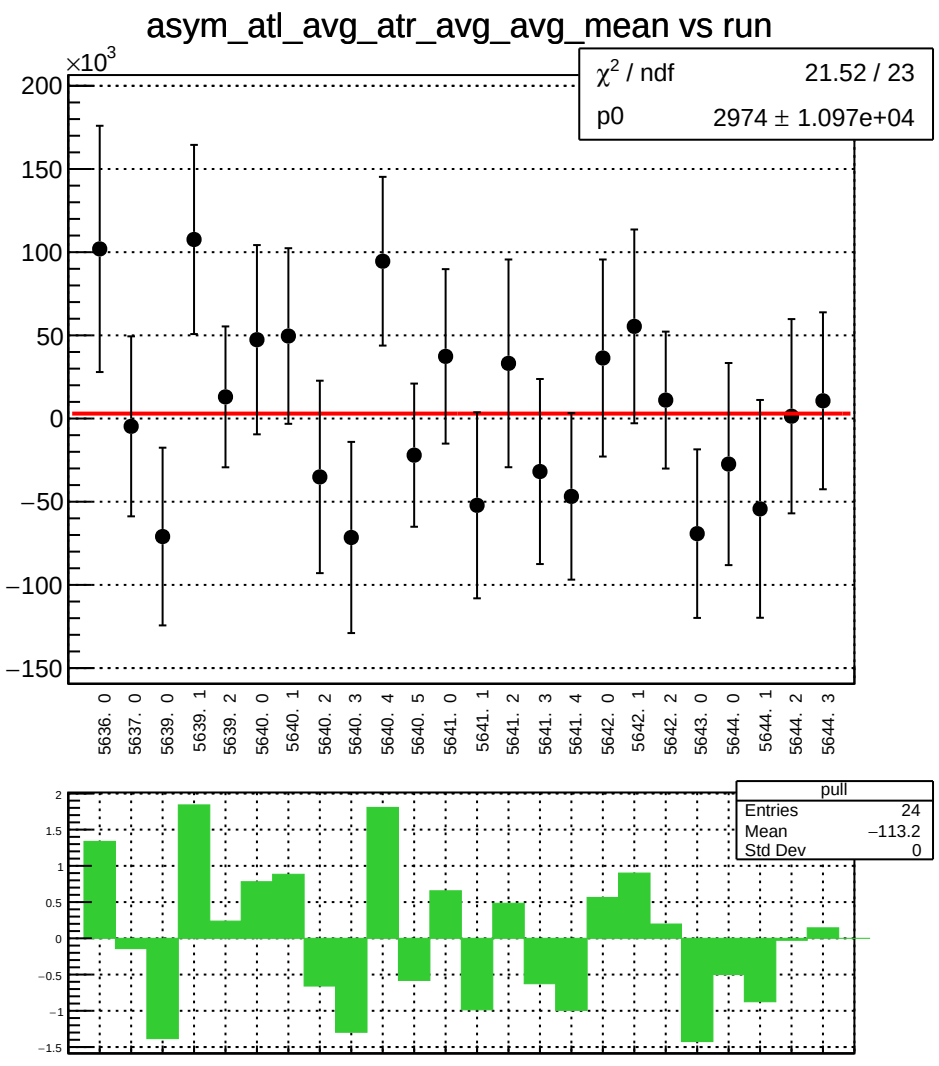

pull1D
Entries 24
Mean −0.02783
Std Dev 1.032
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

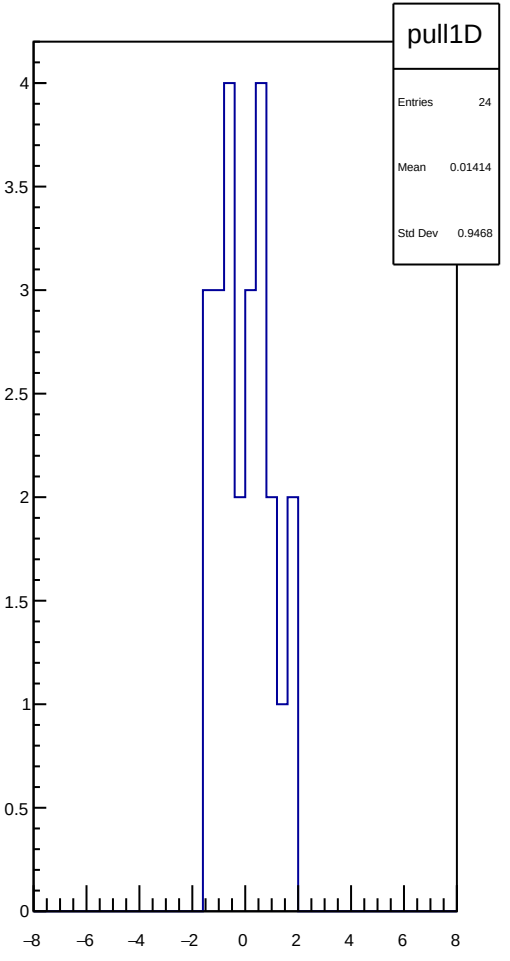

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 139.2 / 23
p0 1413 ± 2.036
1500
1480
1460
1440
1420
1400
1380
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

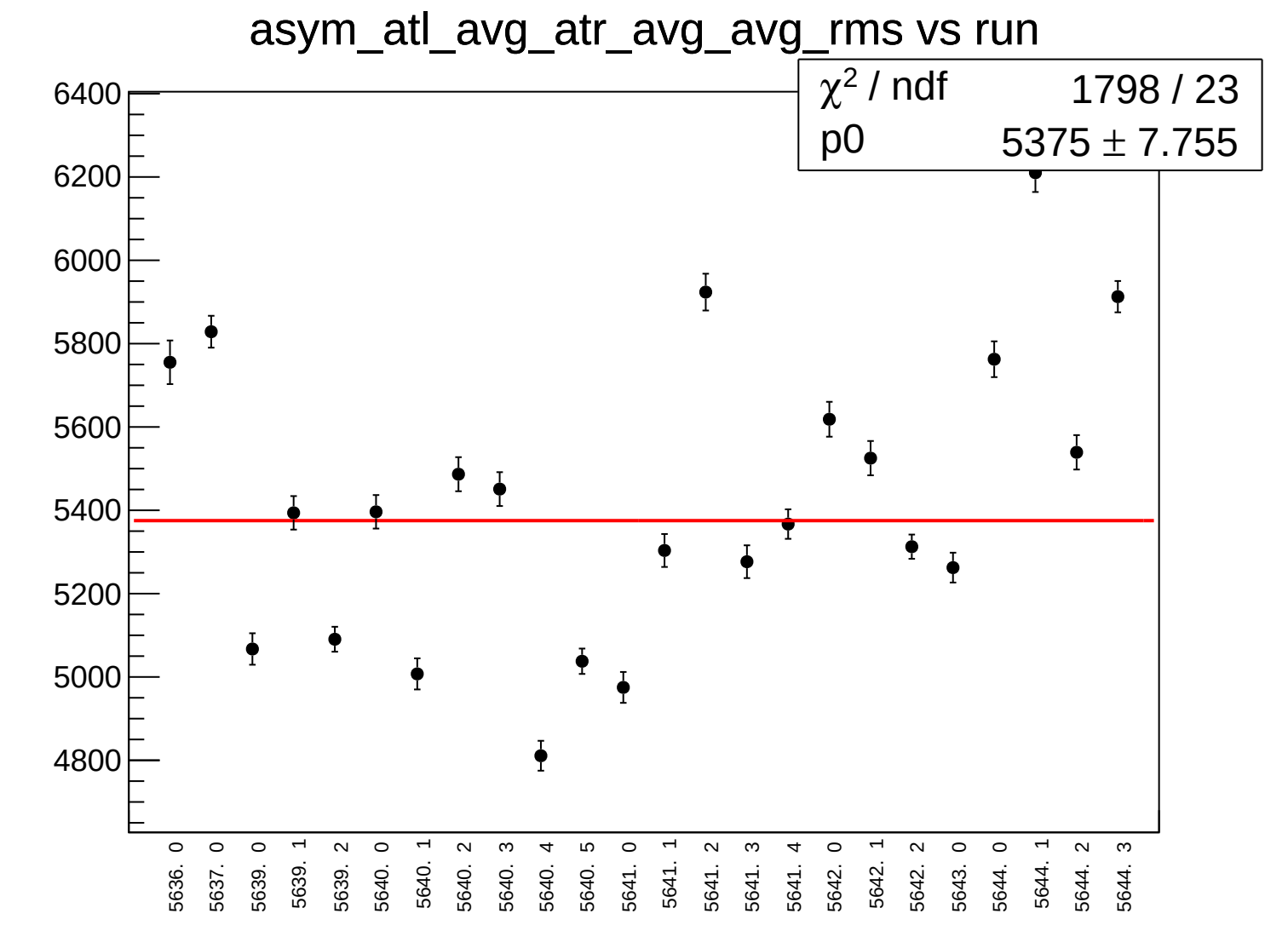

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 20.22 / 23
p0 −7194 ± 1.064e+04
100
50
0
−50
−100
−150
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −79.93
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

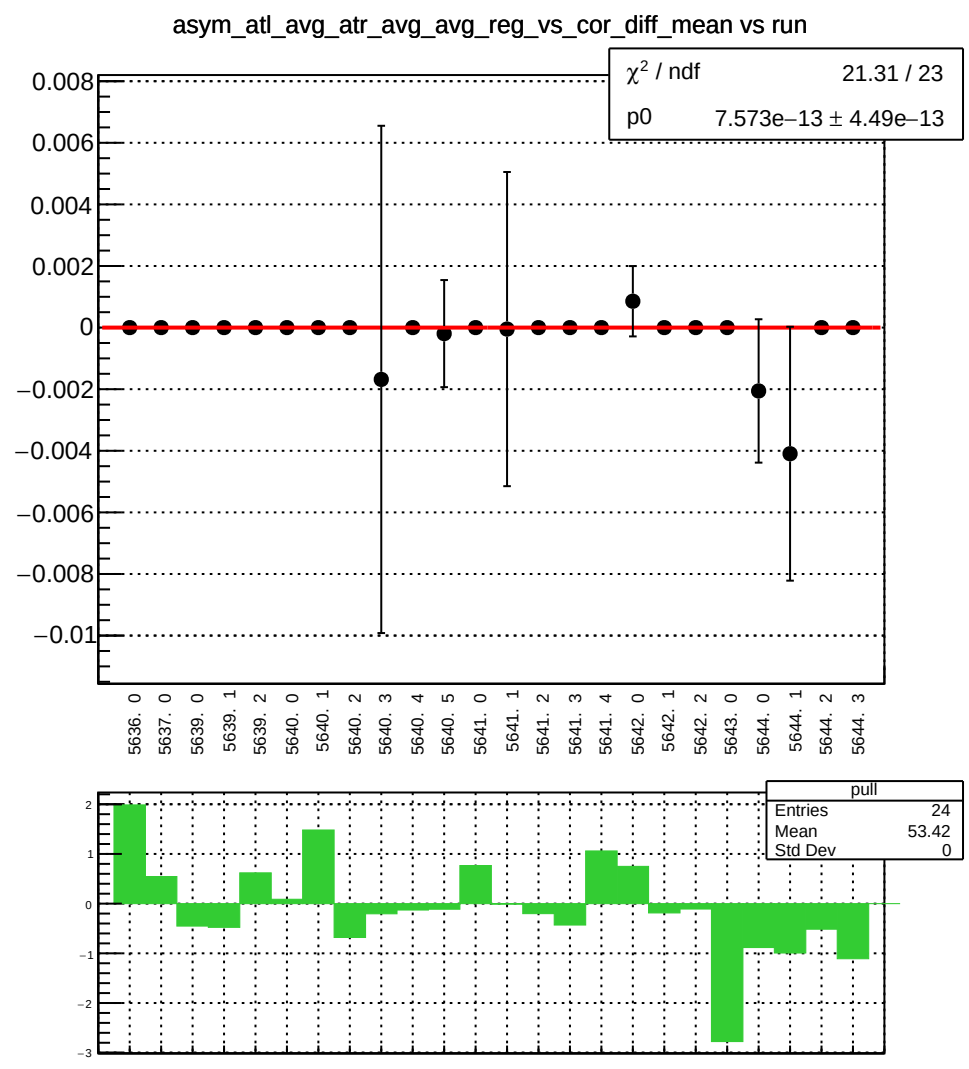

pull1D
Entries 24
Mean −0.02657
Std Dev 0.9174
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

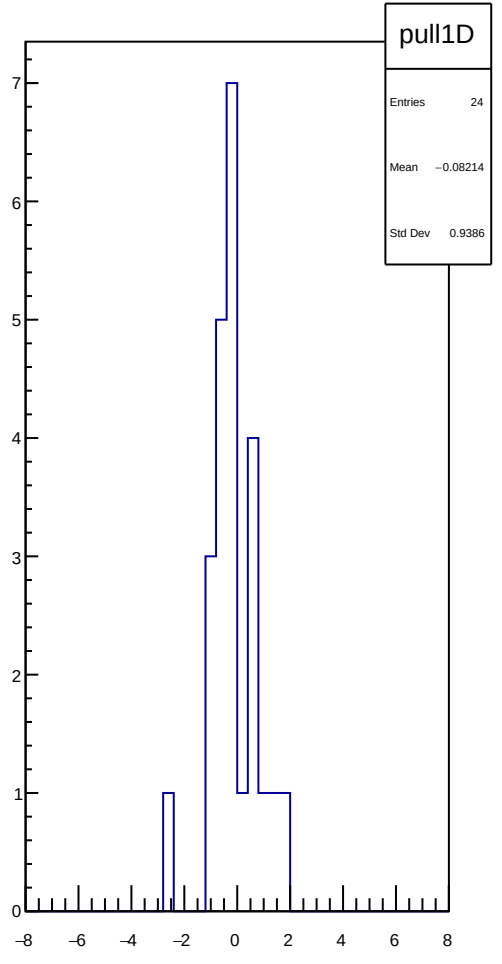

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1601 / 23
p0 5216 ± 7.524
6200
6000
5800
5600
5400
5200
5000
4800
4600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

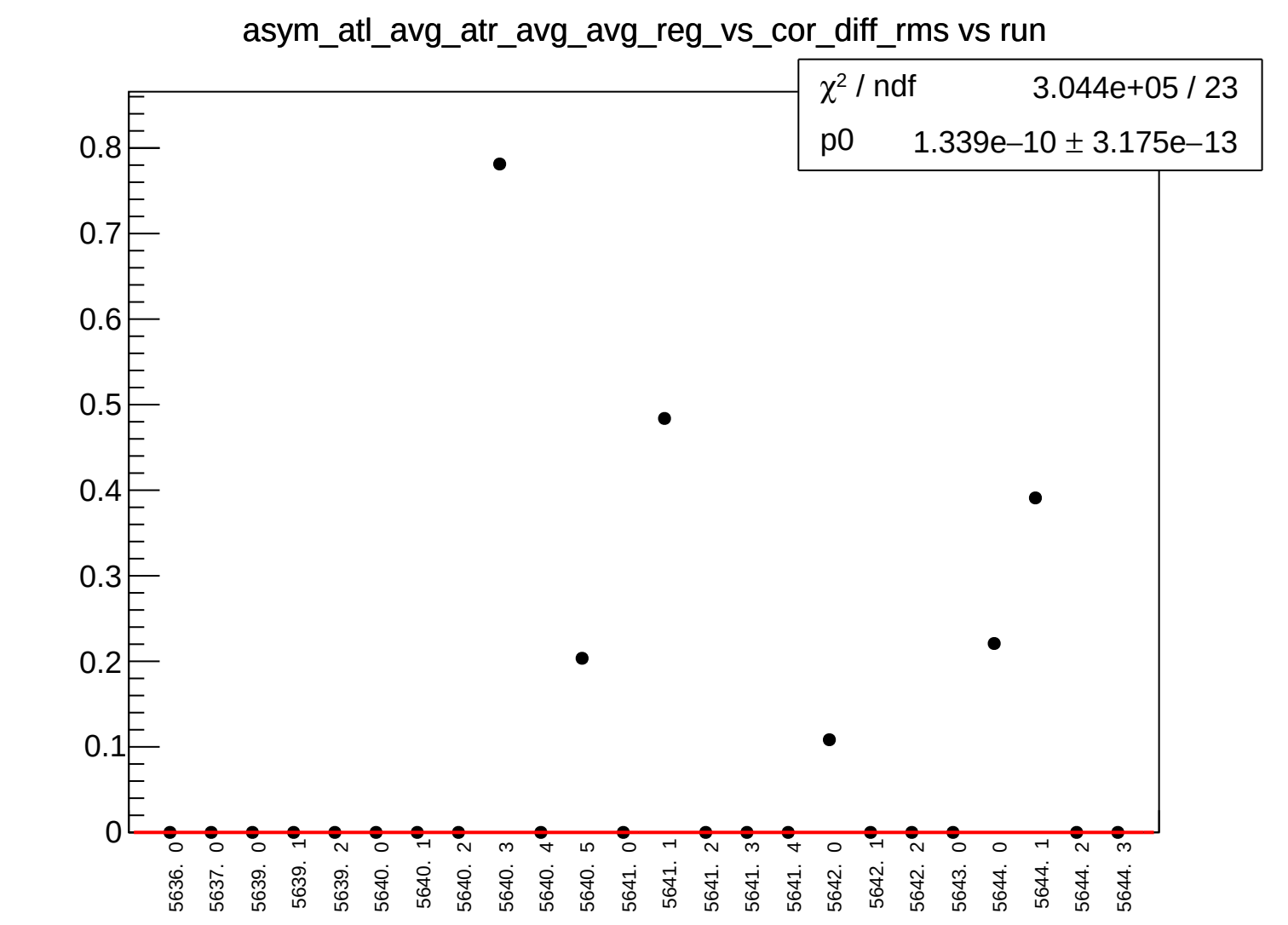

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 21.52 / 23
p0 2974 ± 1.097e+04
200
150
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −113.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

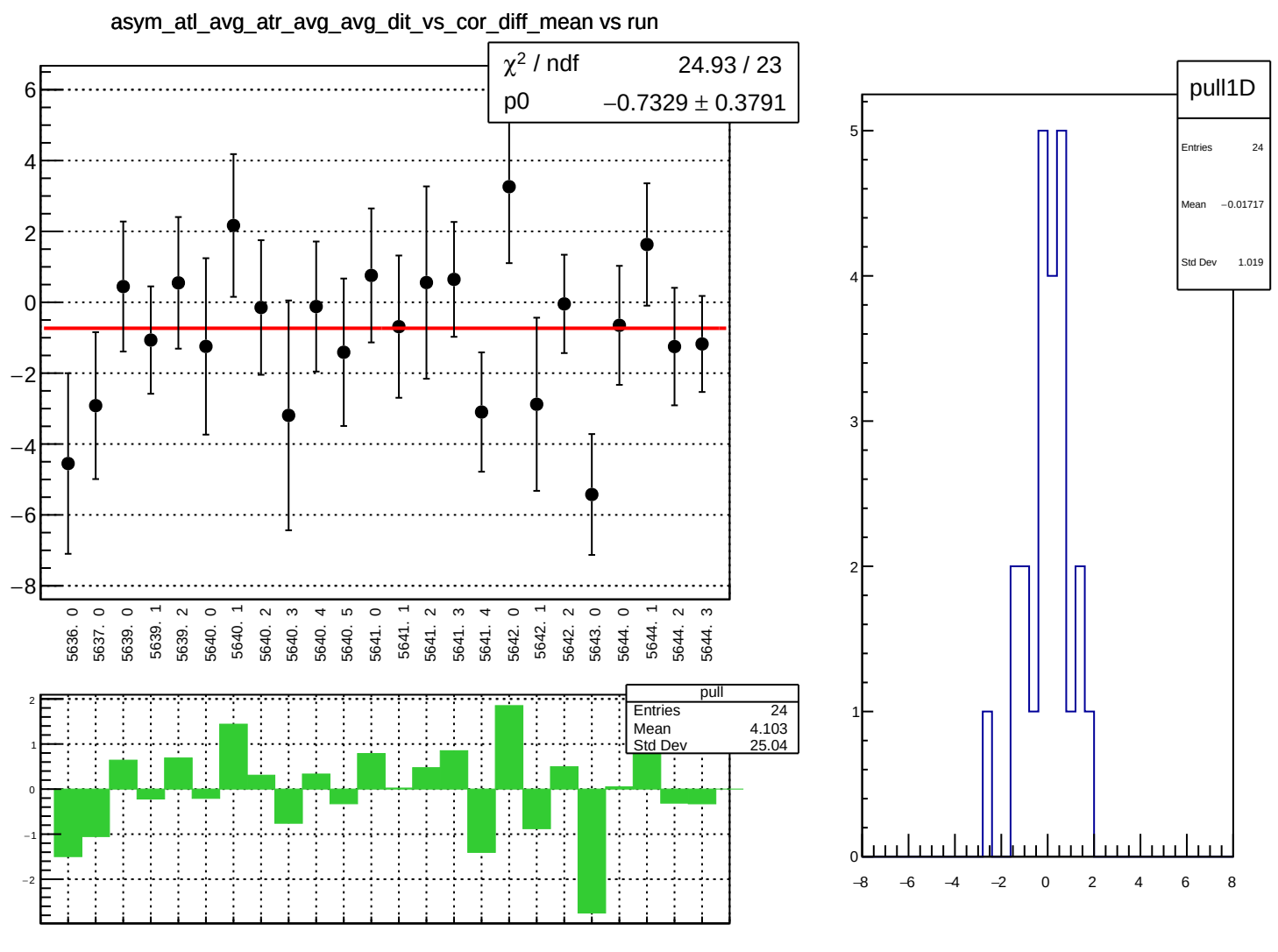

pull1D
Entries 24
Mean 0.01414
Std Dev 0.9468
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

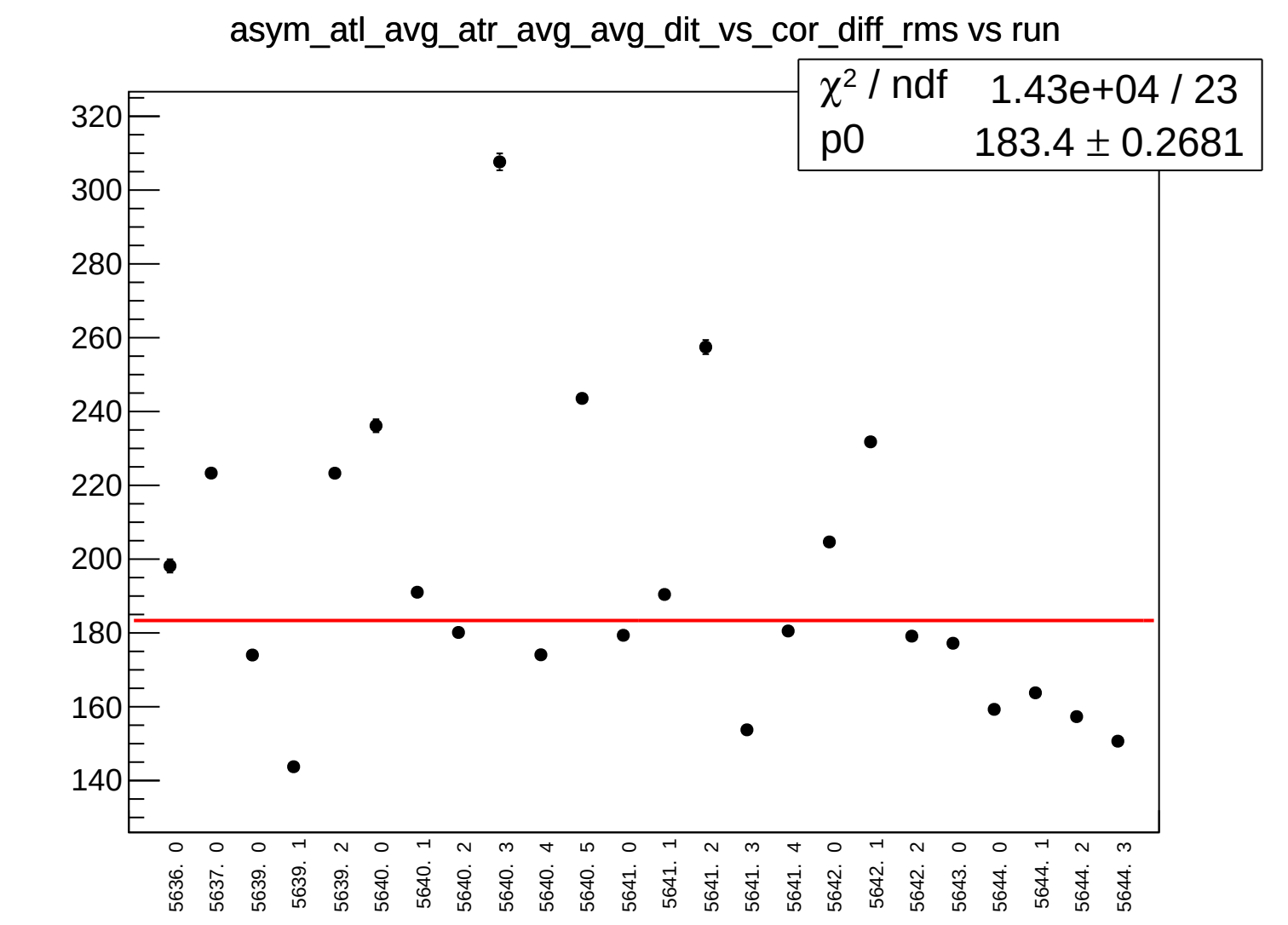

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1798 / 23
p0 5375 ± 7.755
6400
6200
6000
5800
5600
5400
5200
5000
4800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

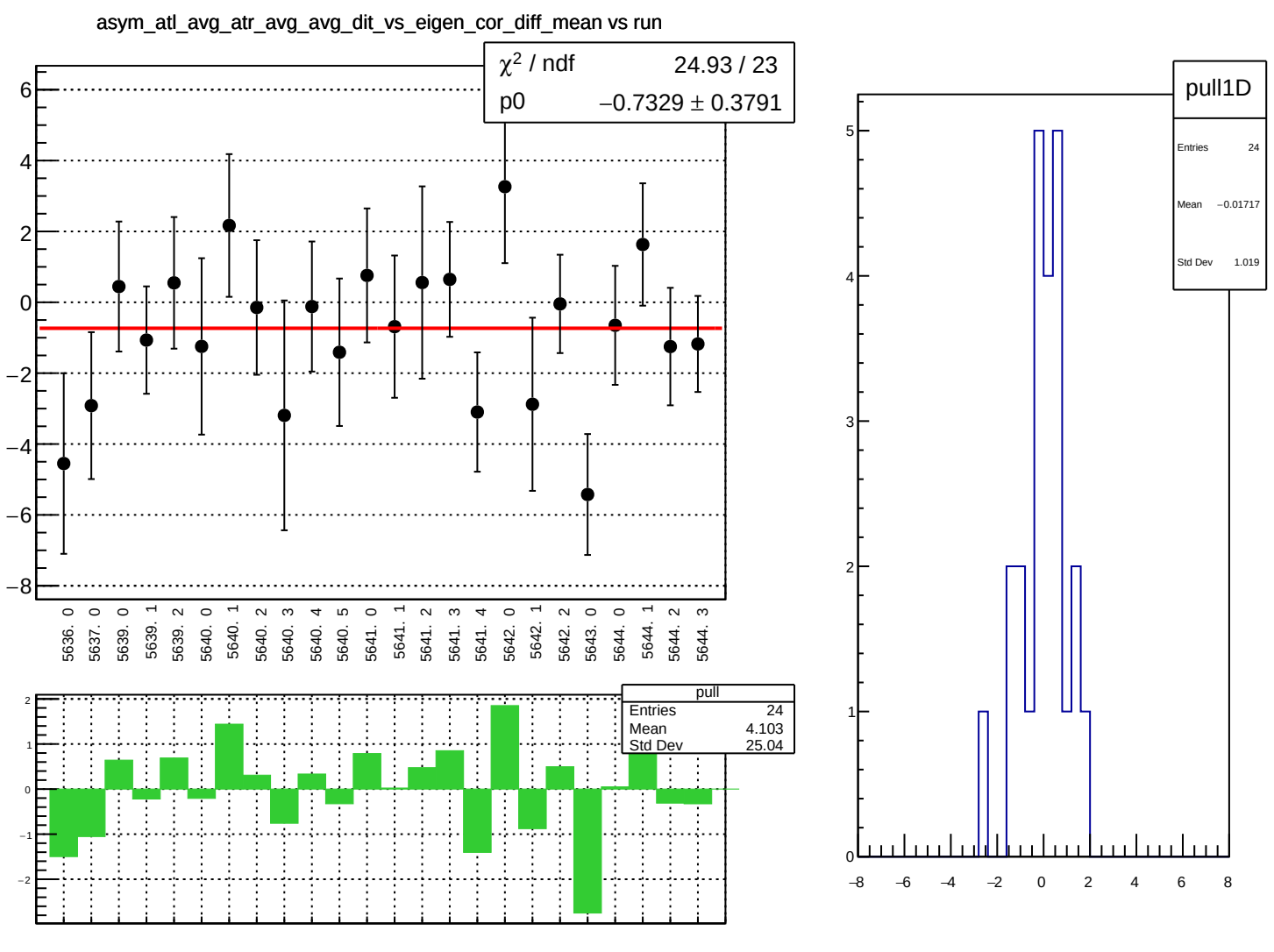

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 21.31 / 23
p0 7.573e−13 ± 4.49e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 53.42
Std Dev 0
2
1
0
−1
−2
−3

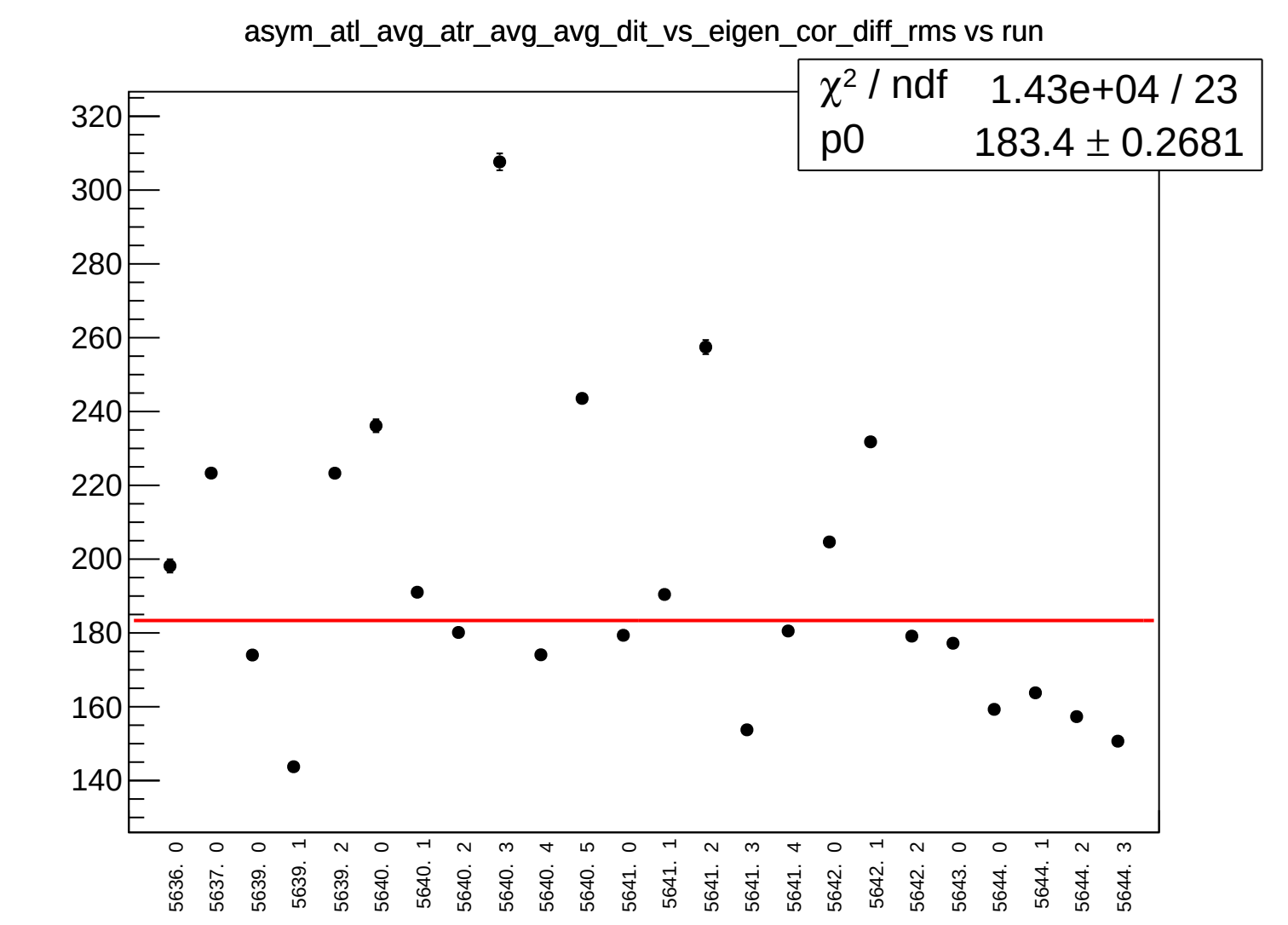

pull1D
Entries 24
Mean −0.08214
Std Dev 0.9386
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

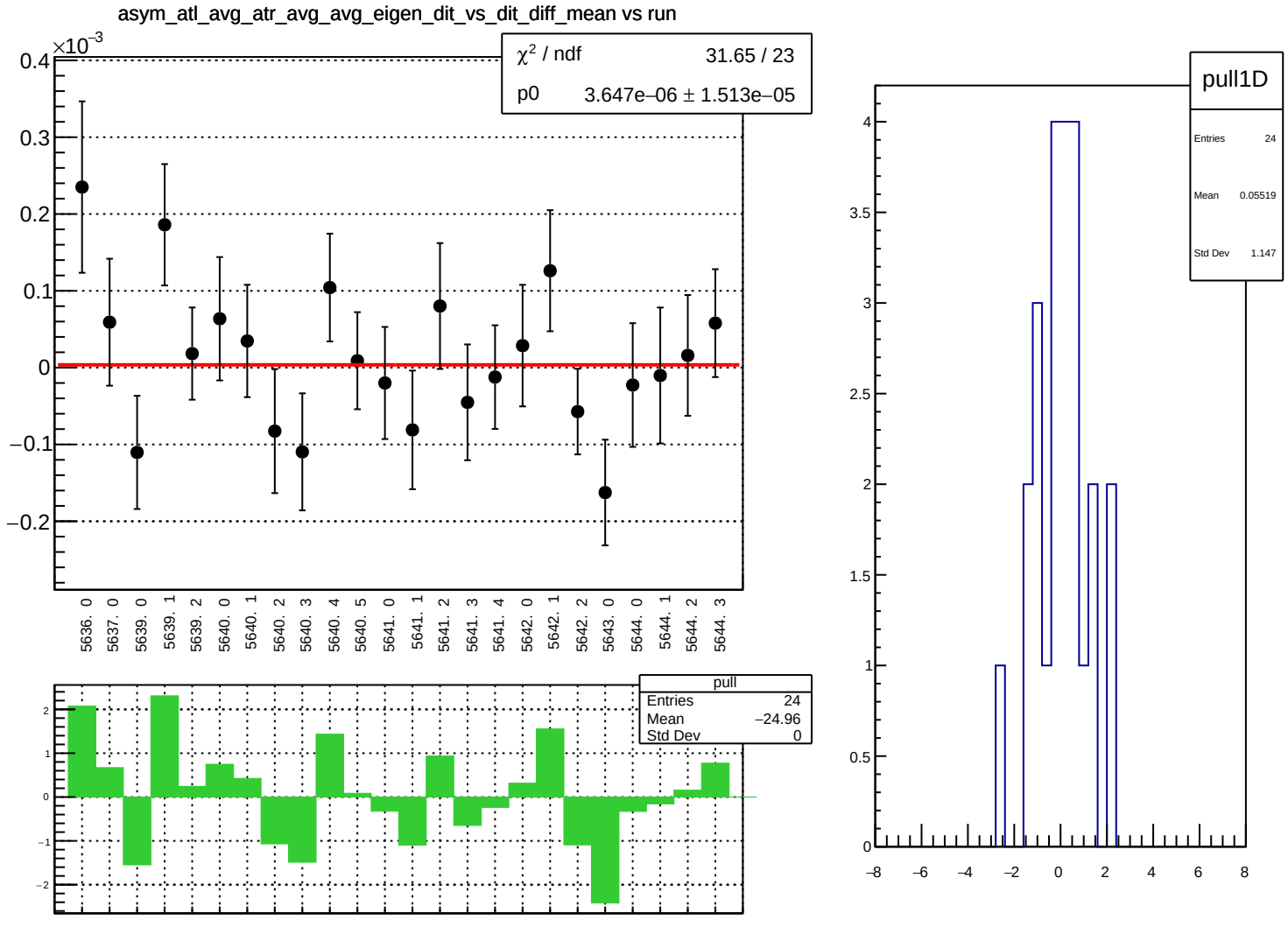

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.044e+05 / 23
p0 1.339e−10 ± 3.175e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

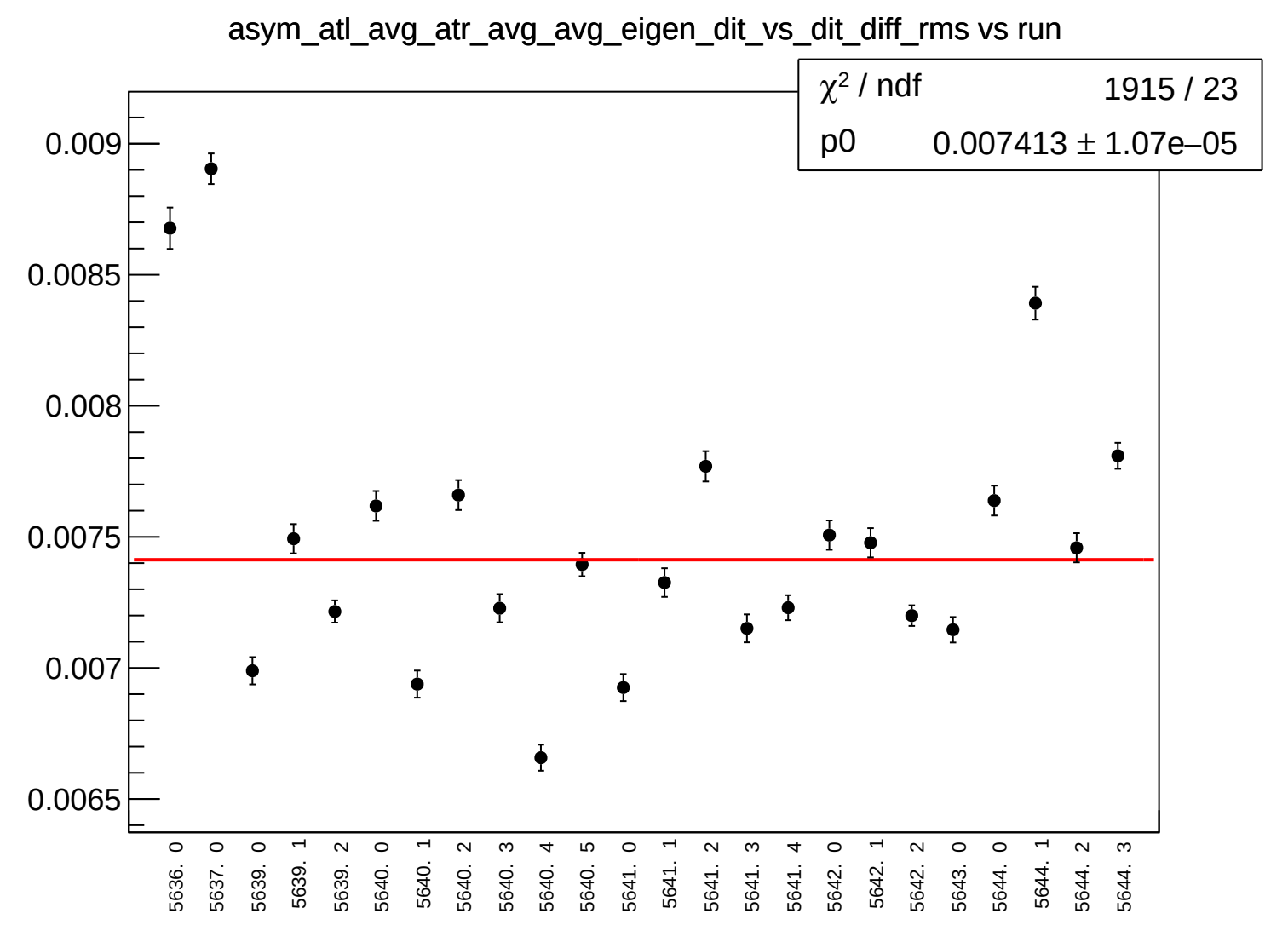

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 24.93 / 23
p0 −0.7329 ± 0.3791
6
4
2
0
−2
−4
−6
−8
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 4.103
Std Dev 25.04
2
1
0
−1
−2
pull1D
Entries 24
Mean −0.01717
Std Dev 1.019
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.43e+04 / 23
p0 183.4 ± 0.2681
320
300
280
260
240
220
200
180
160
140
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.93 / 23
p0 −0.7329 ± 0.3791
6
4
2
0
−2
−4
−6
−8
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 4.103
Std Dev 25.04
2
1
0
−1
−2
pull1D
Entries 24
Mean −0.01717
Std Dev 1.019
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.43e+04 / 23
p0 183.4 ± 0.2681
320
300
280
260
240
220
200
180
160
140
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 31.65 / 23
p0 3.647e−06 ± 1.513e−05
0.4
0.3
0.2
0.1
0
−0.1
−0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −24.96
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 24
Mean 0.05519
Std Dev 1.147
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1915 / 23
p0 0.007413 ± 1.07e–05
0.009
0.0085
0.008
0.0075
0.007
0.0065
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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5642. 1
5642. 2
5643. 0
5644. 0
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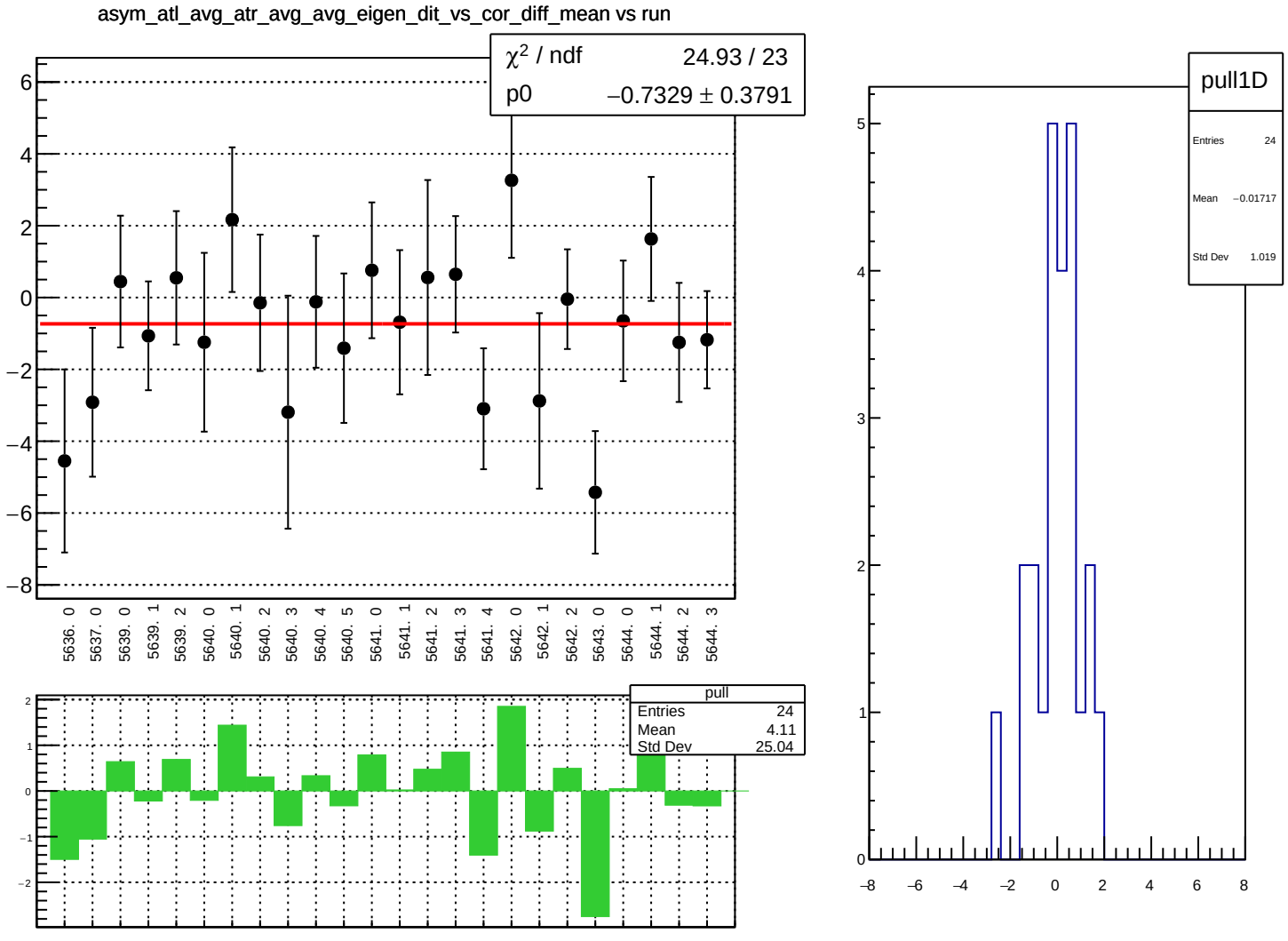
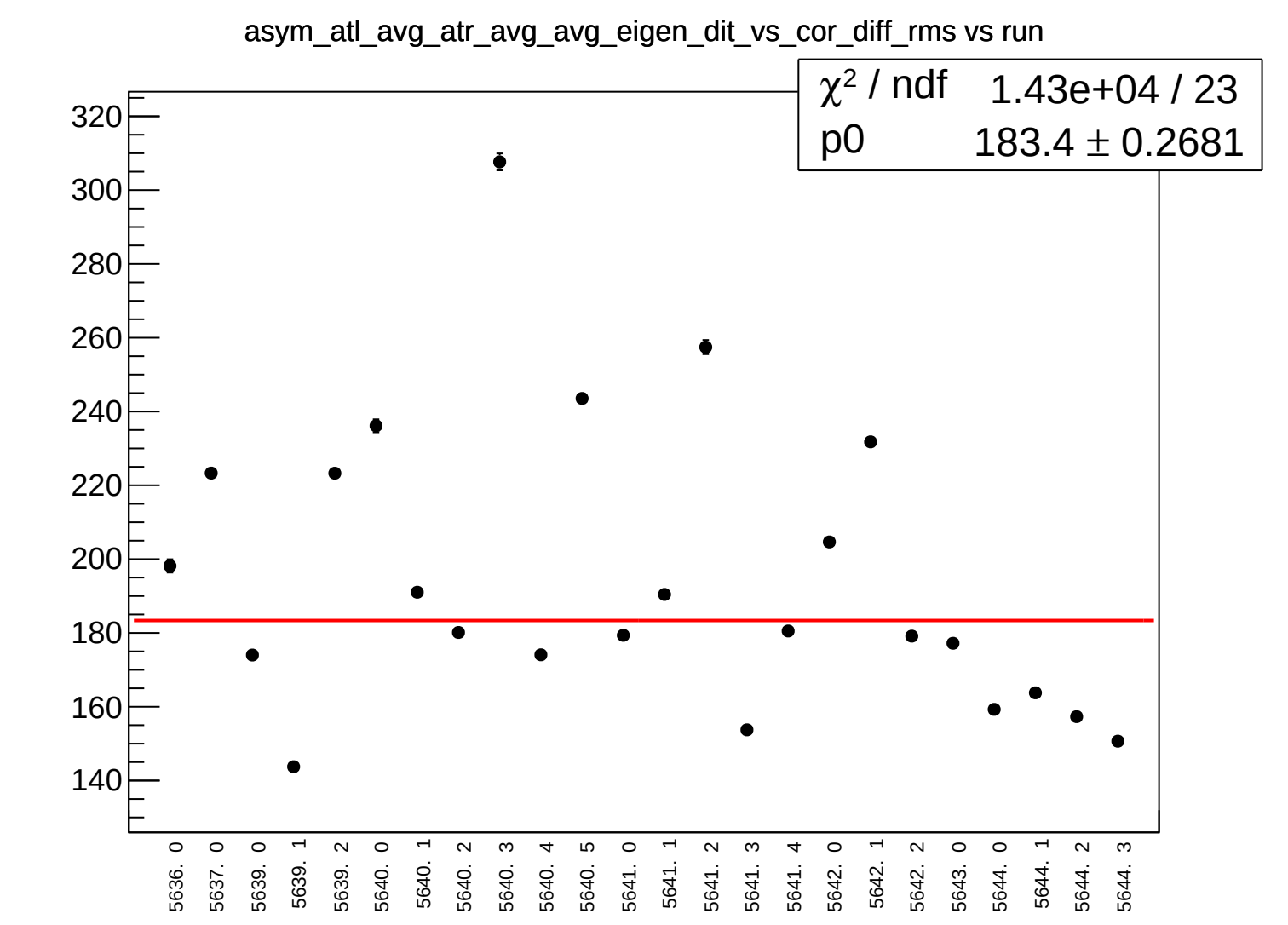
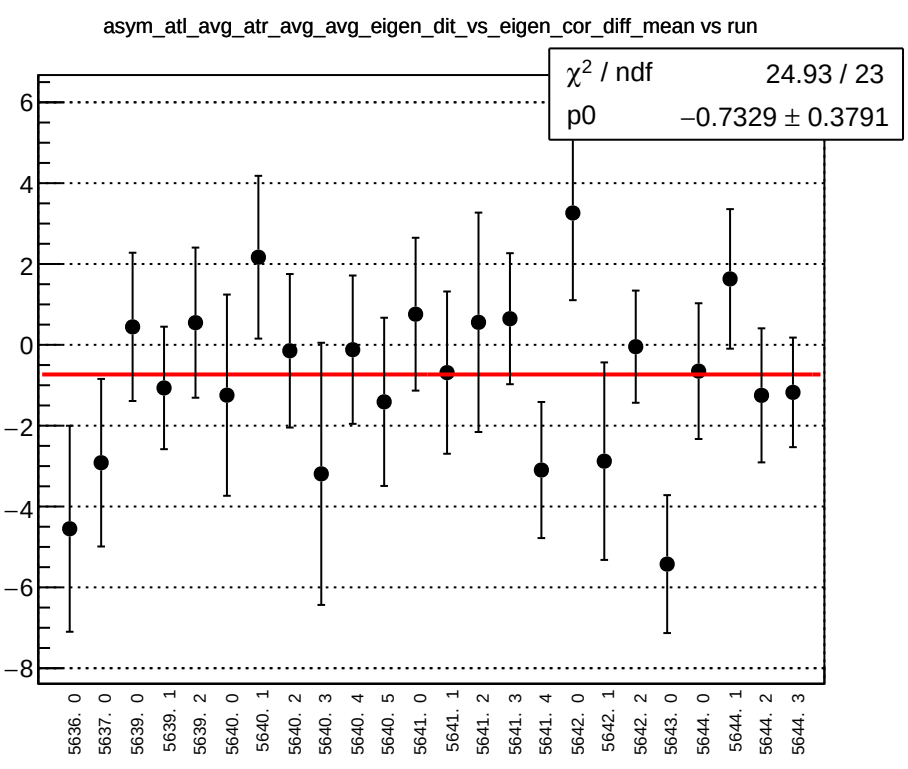
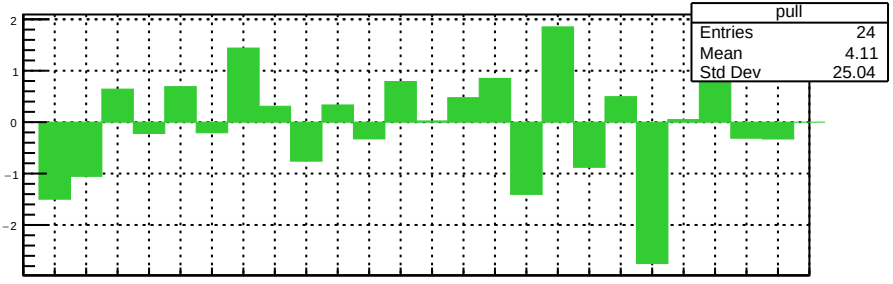
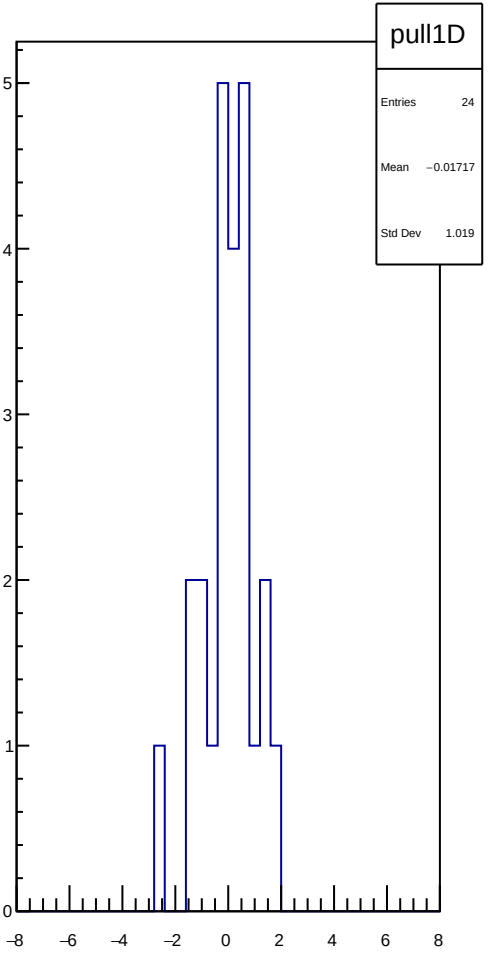
5644. 2
5644. 3

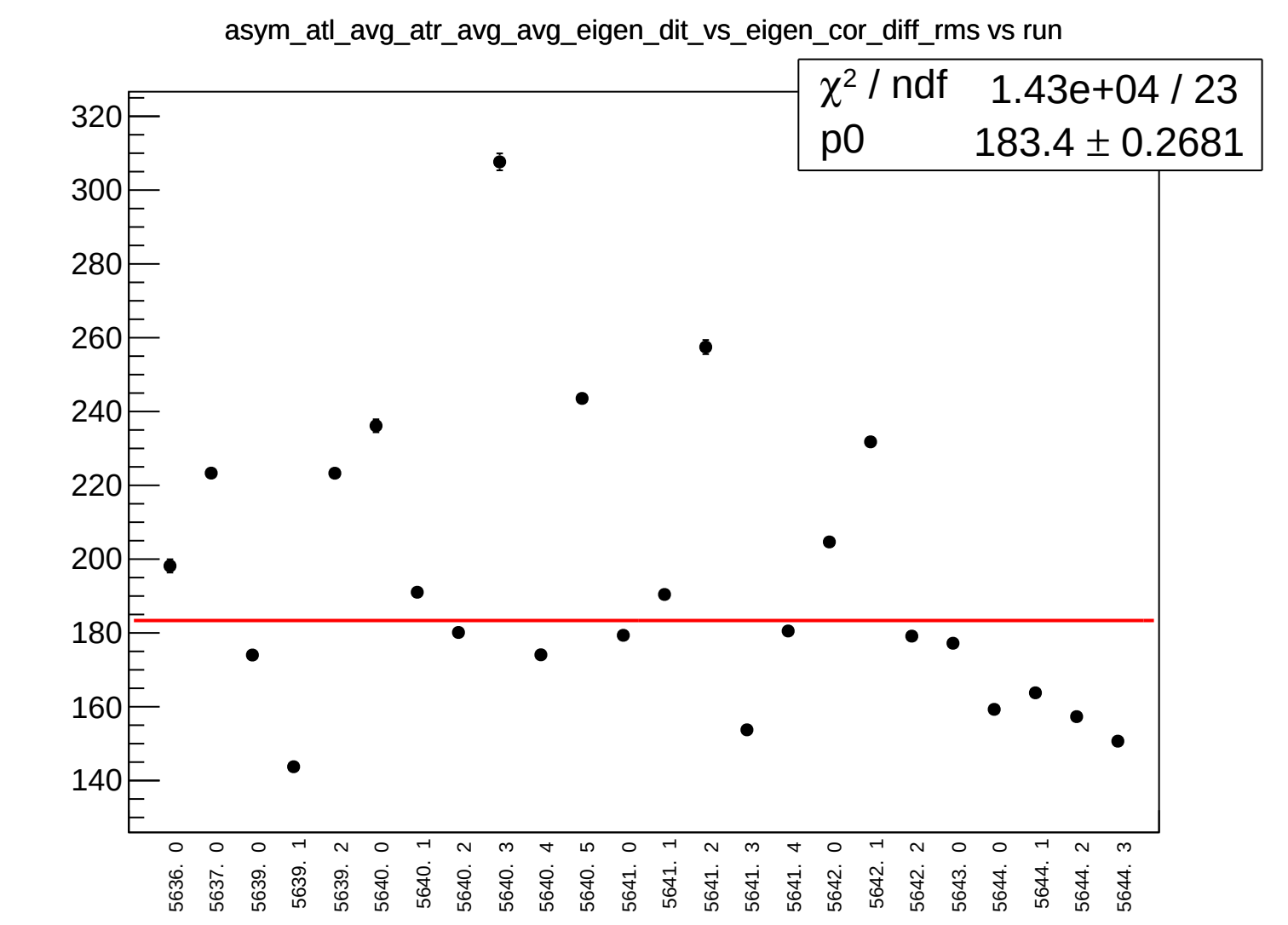

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 24.93 / 23
p0 −0.7329 ± 0.3791
6
4
2
0
−2
−4
−6
−8
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 4.11
Std Dev 25.04
2
1
0
−1
−2
pull1D
Entries 24
Mean −0.01717
Std Dev 1.019
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

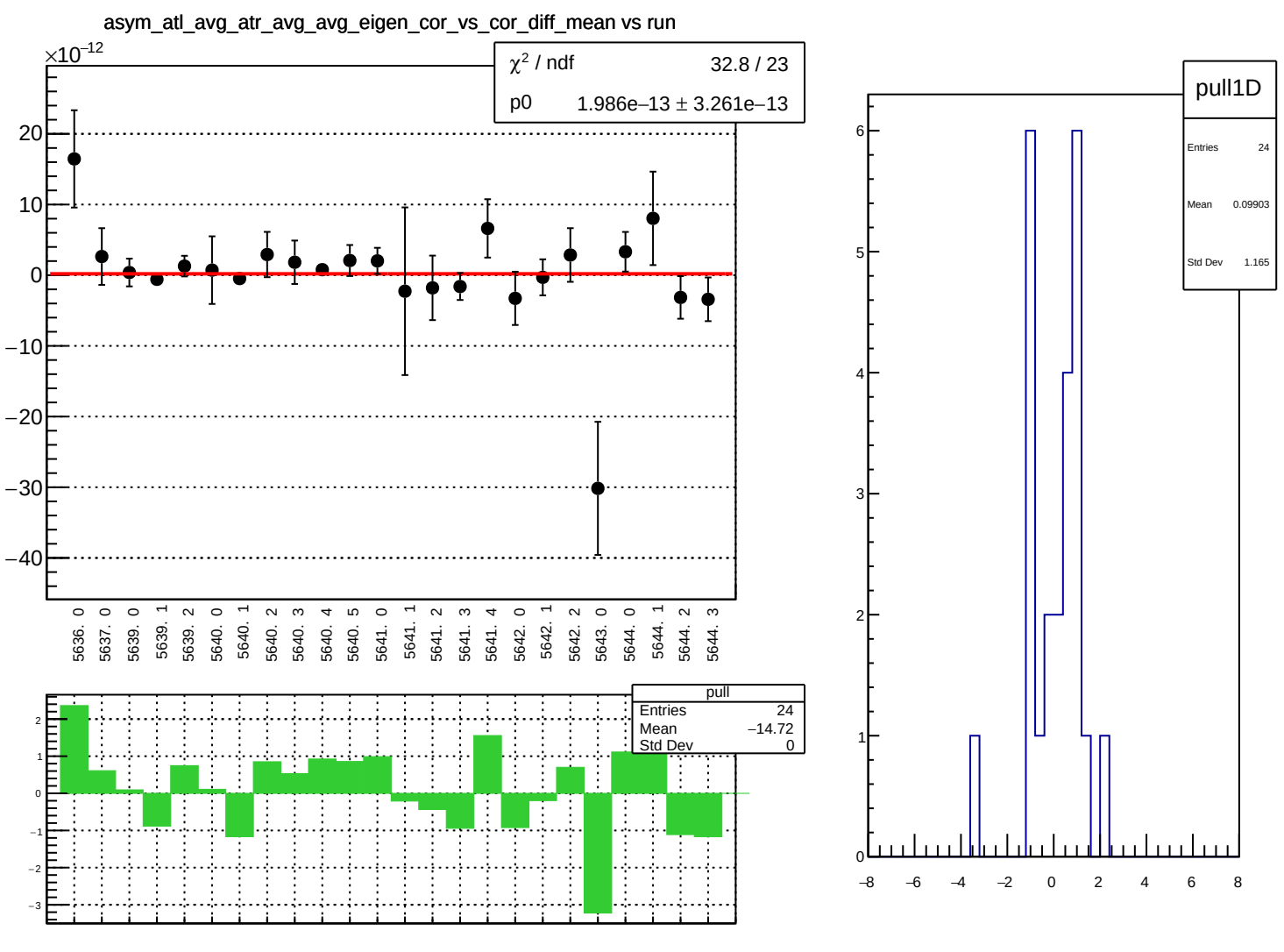

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.43e+04 / 23
p0 183.4 ± 0.2681
320
300
280
260
240
220
200
180
160
140
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

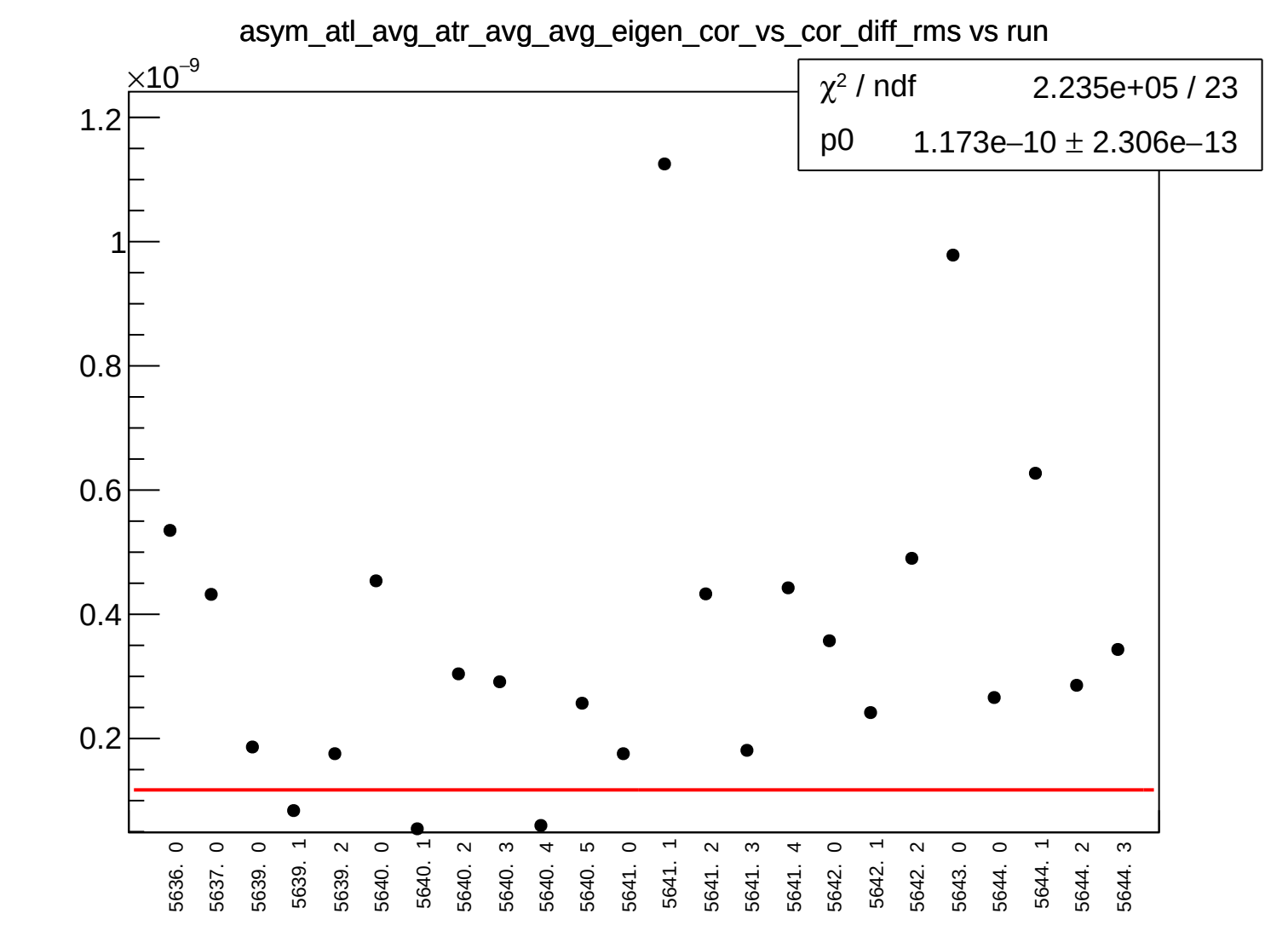

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.93 / 23
p0 −0.7329 ± 0.3791
6
4
2
0
−2
−4
−6
−8
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

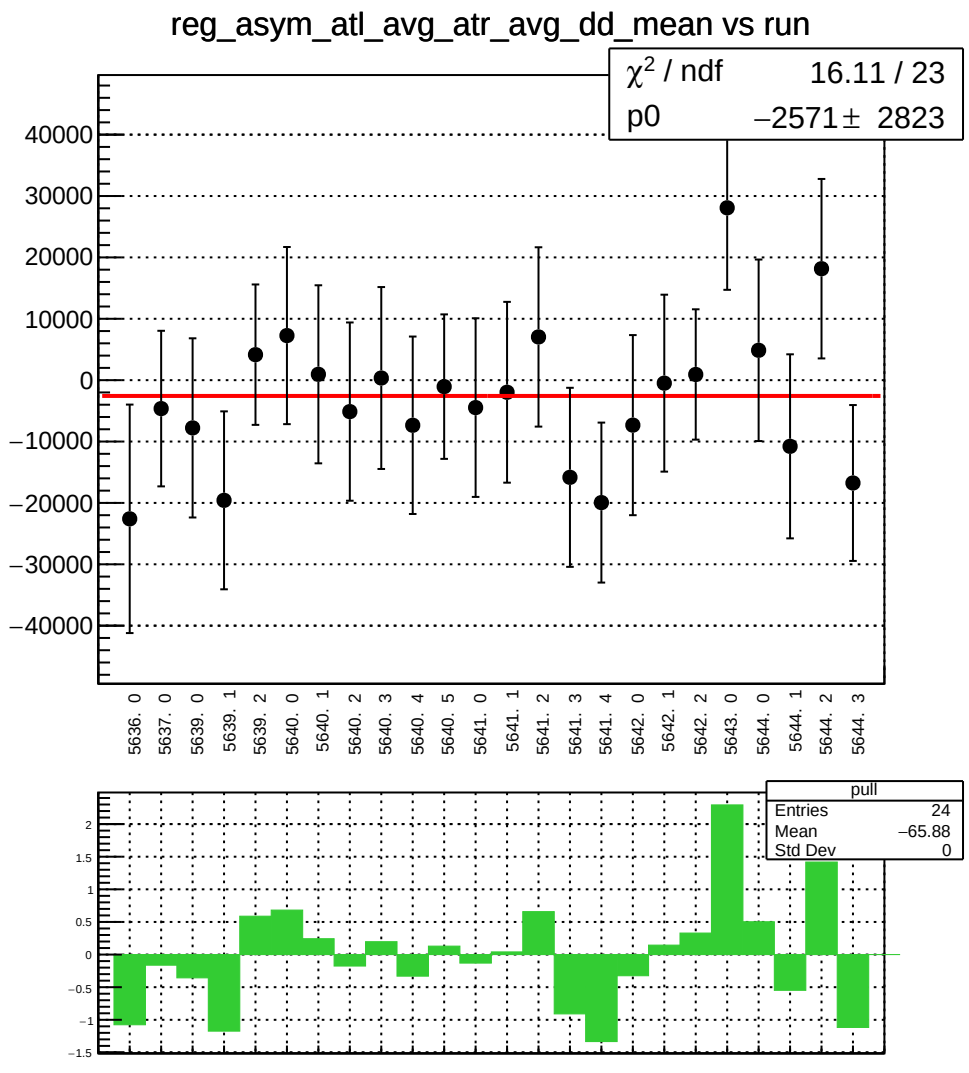

pull
Entries 24
Mean 4.11
Std Dev 25.04
2
1
0
−1
−2

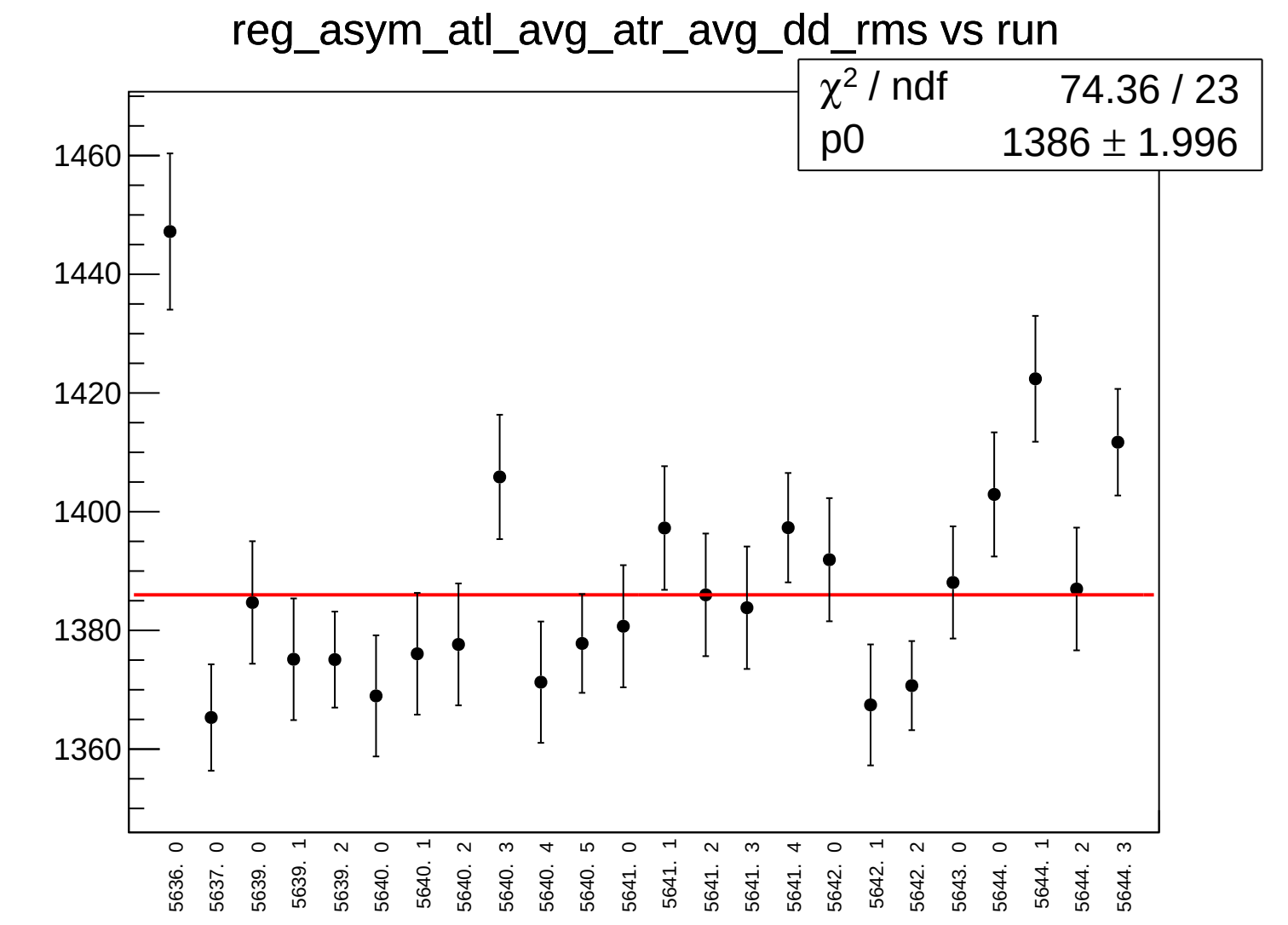

pull1D
Entries 24
Mean −0.01717
Std Dev 1.019
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.43e+04 / 23
p0 183.4 ± 0.2681
320
300
280
260
240
220
200
180
160
140
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 32.8 / 23
p0 1.986e−13 ± 3.261e−13
20
10
0
−10
−20
−30
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −14.72
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean 0.09903
Std Dev 1.165
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.235e+05 / 23
p0 1.173e−10 ± 2.306e−13
1.2
1
0.8
0.6
0.4
0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 16.11 / 23
p0 −2571 ± 2823
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −65.88
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.01708
Std Dev 0.8192
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 74.36 / 23
p0 1386 ± 1.996
1460
1440
1420
1400
1380
1360
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
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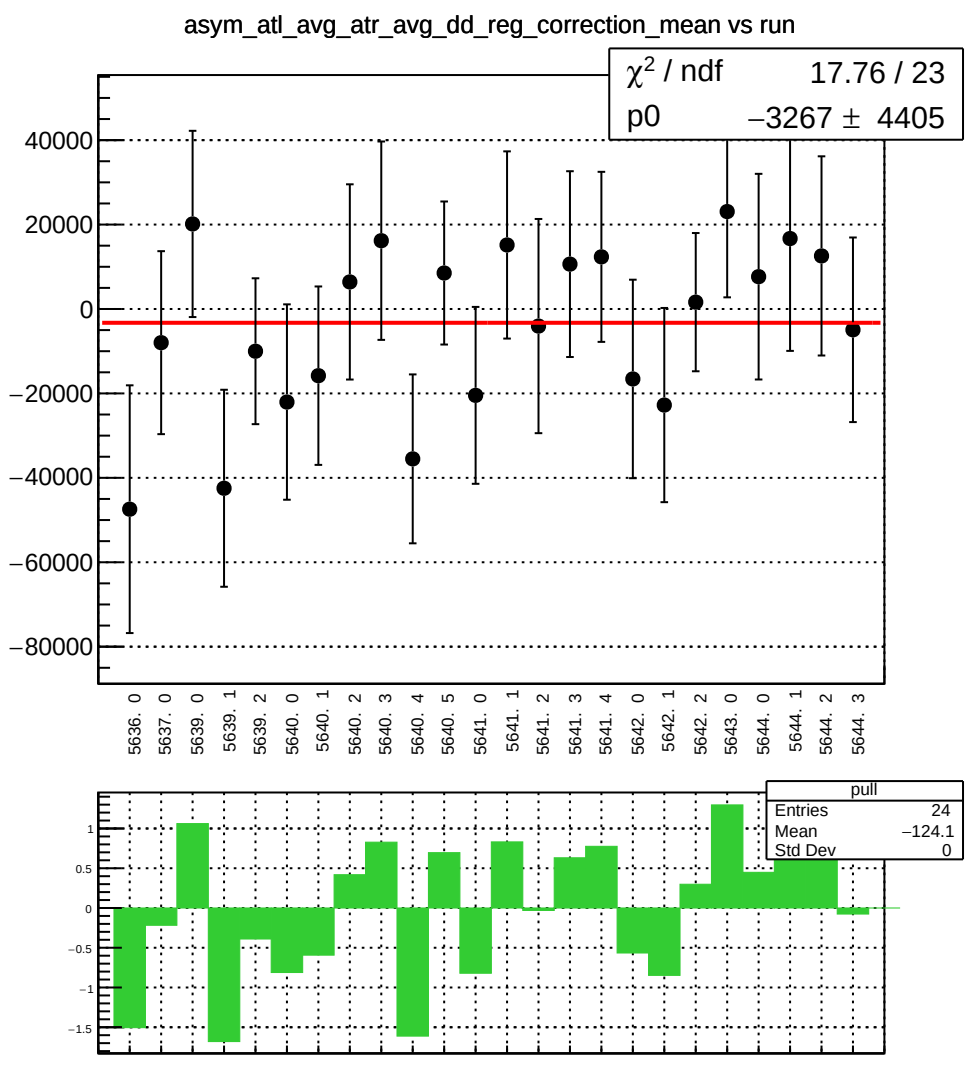
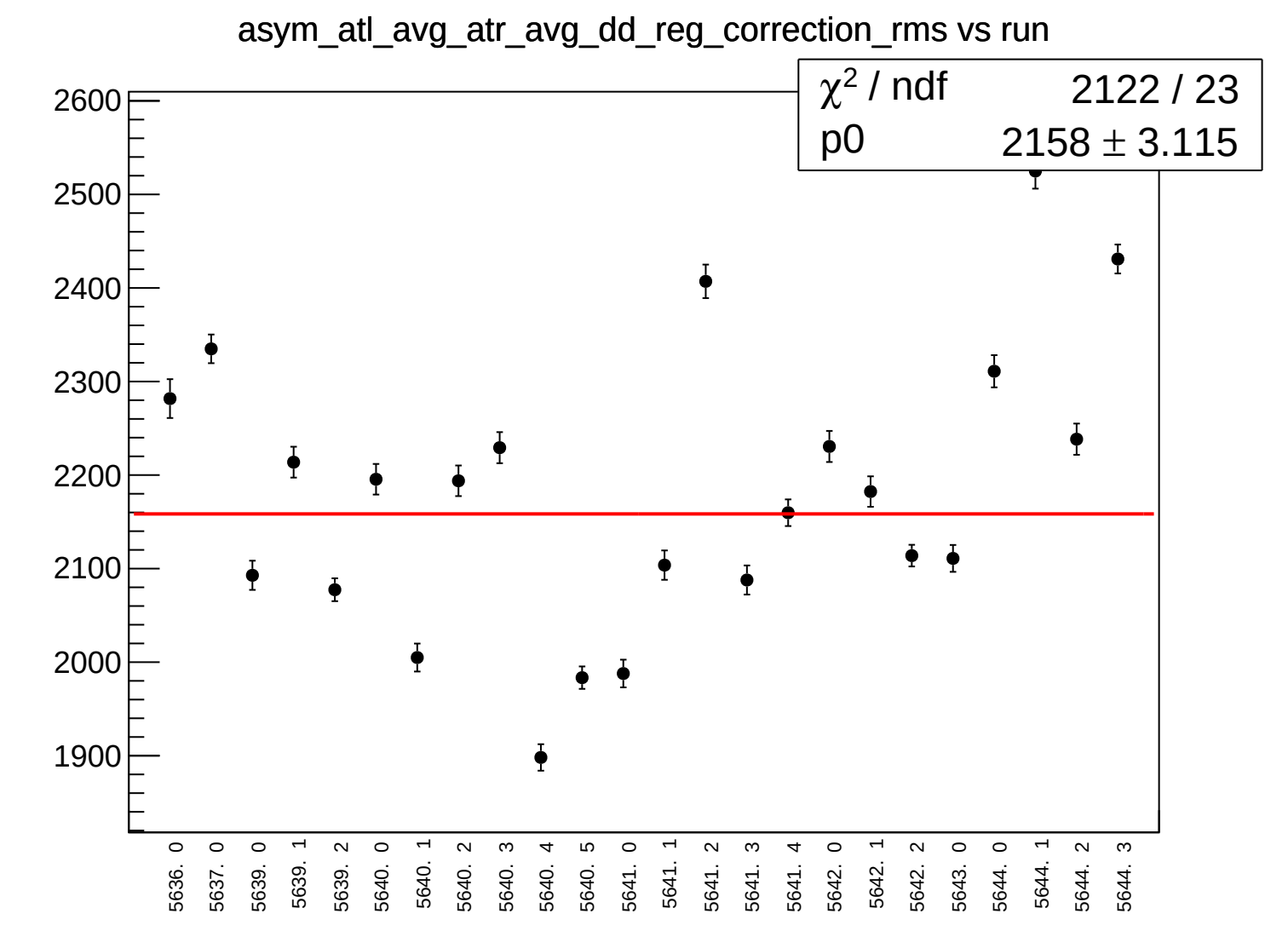
5644. 2
5644. 3


asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 17.76 / 23
p0 −3267 ± 4405
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −124.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.01839
Std Dev 0.86
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 2122 / 23
p0 2158 ± 3.115
2600
2500
2400
2300
2200
2100
2000
1900
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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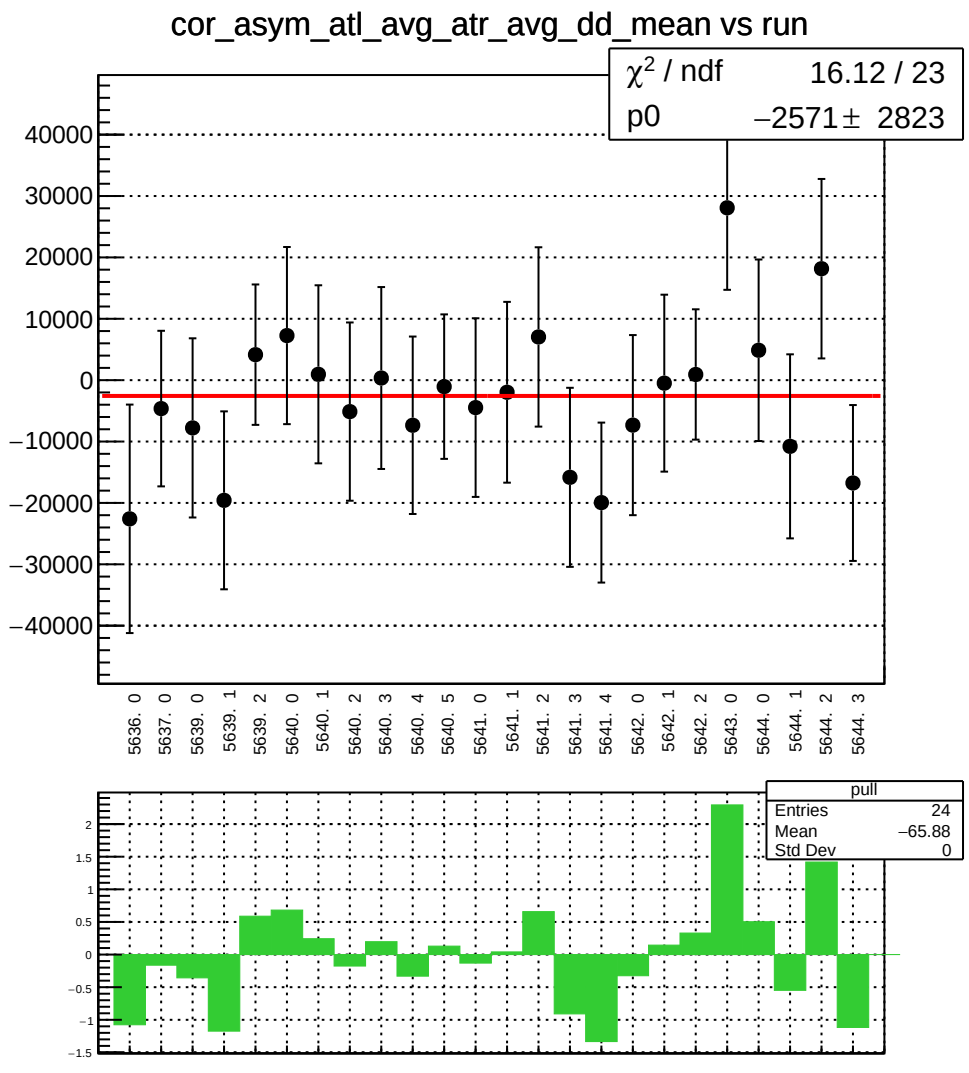
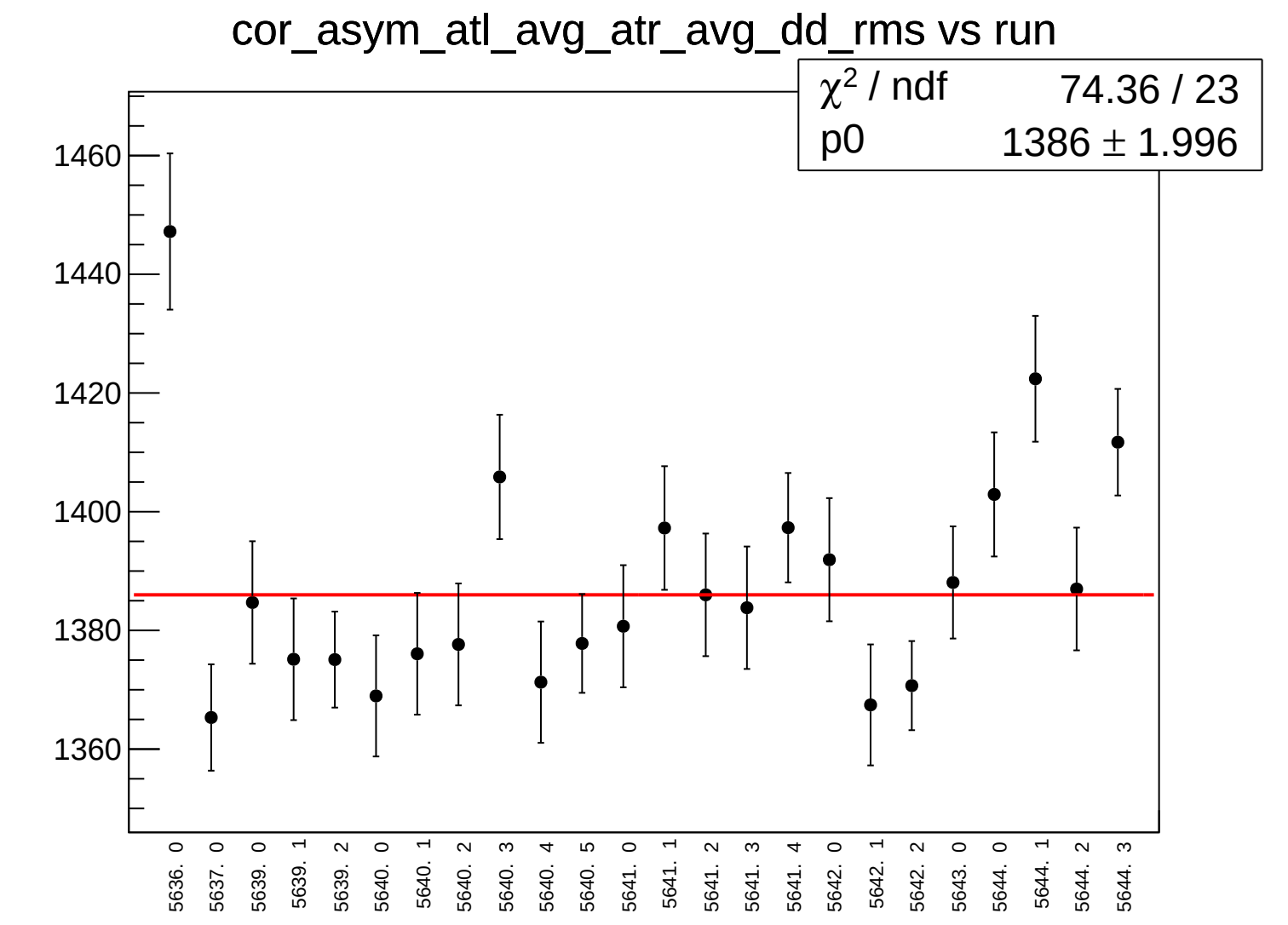
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 16.12 / 23
p0 −2571 ± 2823
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −65.88
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.01708
Std Dev 0.8192
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 74.36 / 23
p0 1386 ± 1.996
1460
1440
1420
1400
1380
1360
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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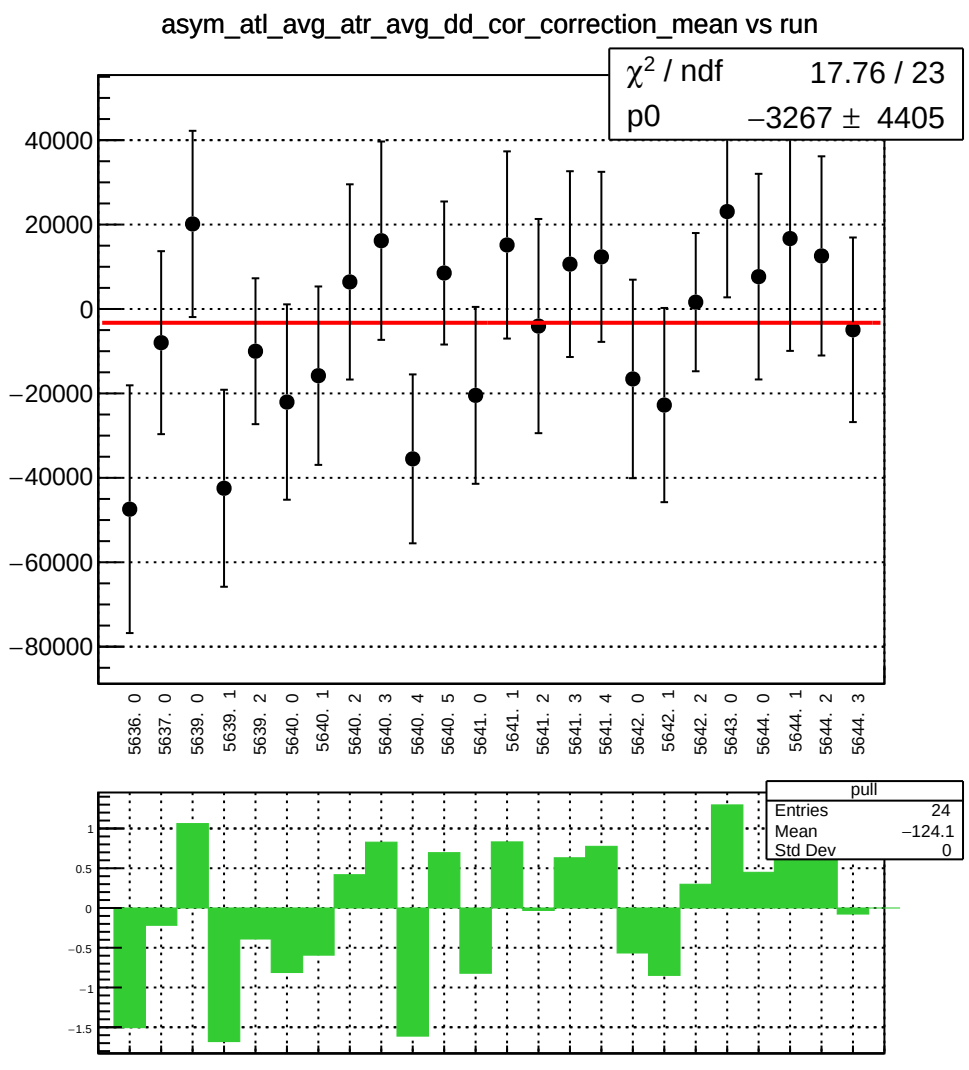
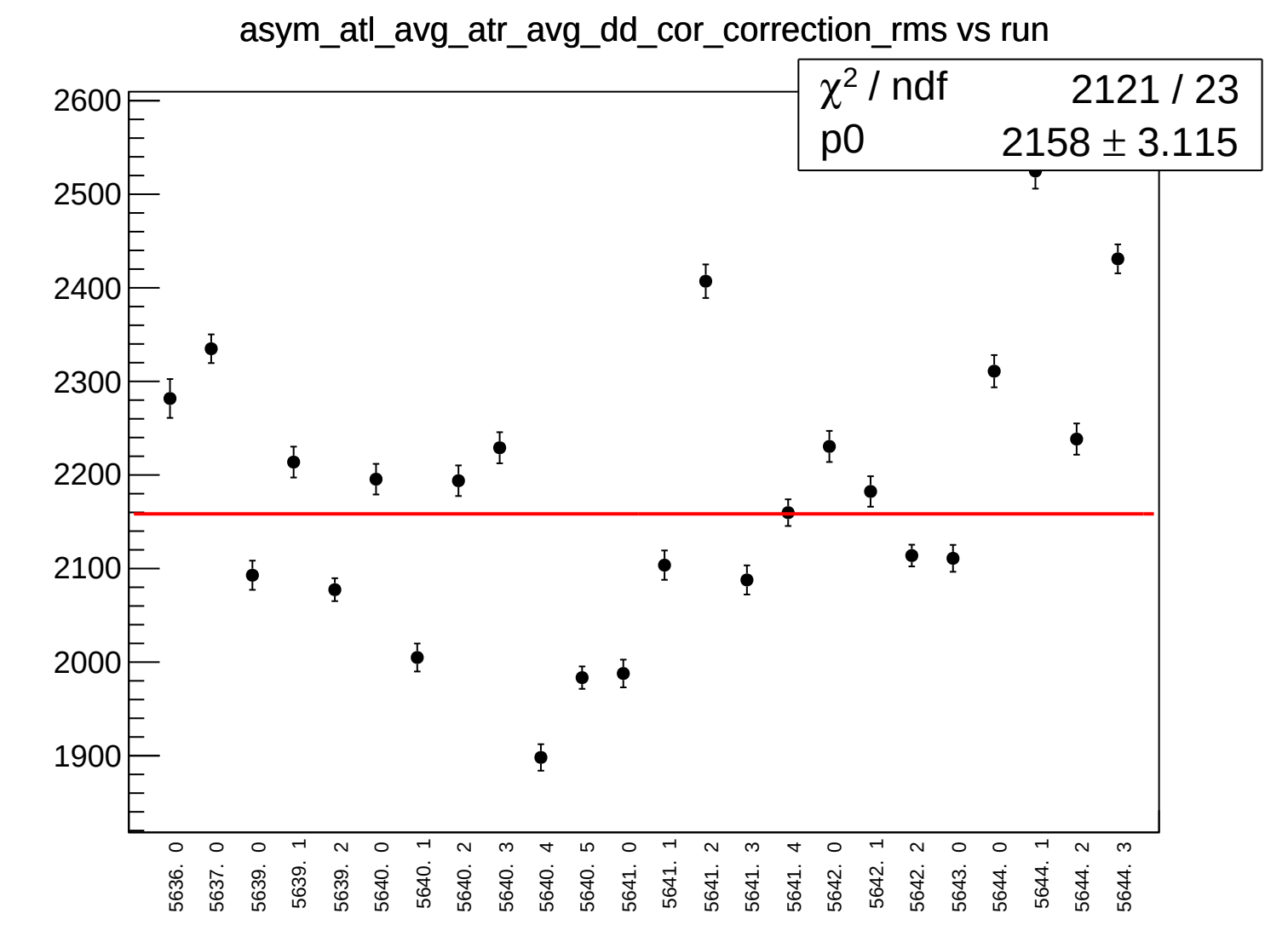
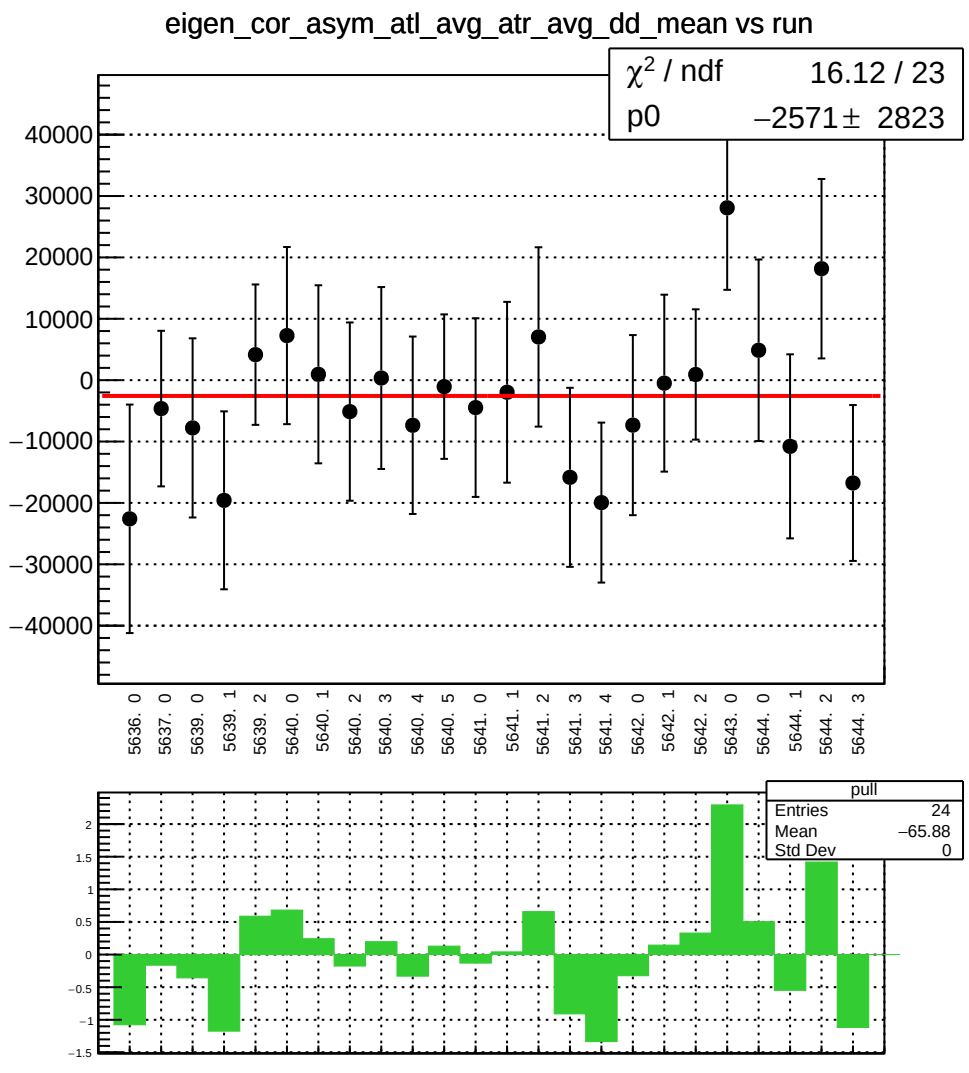
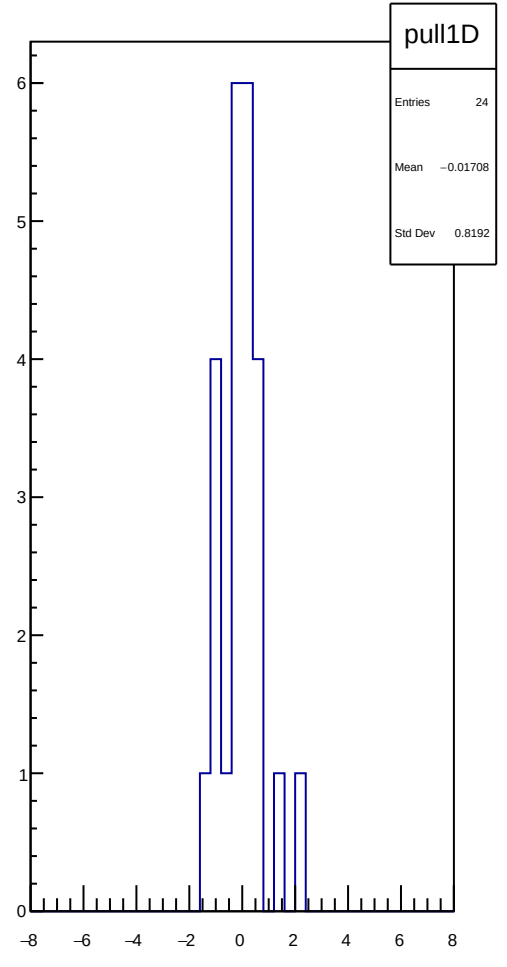
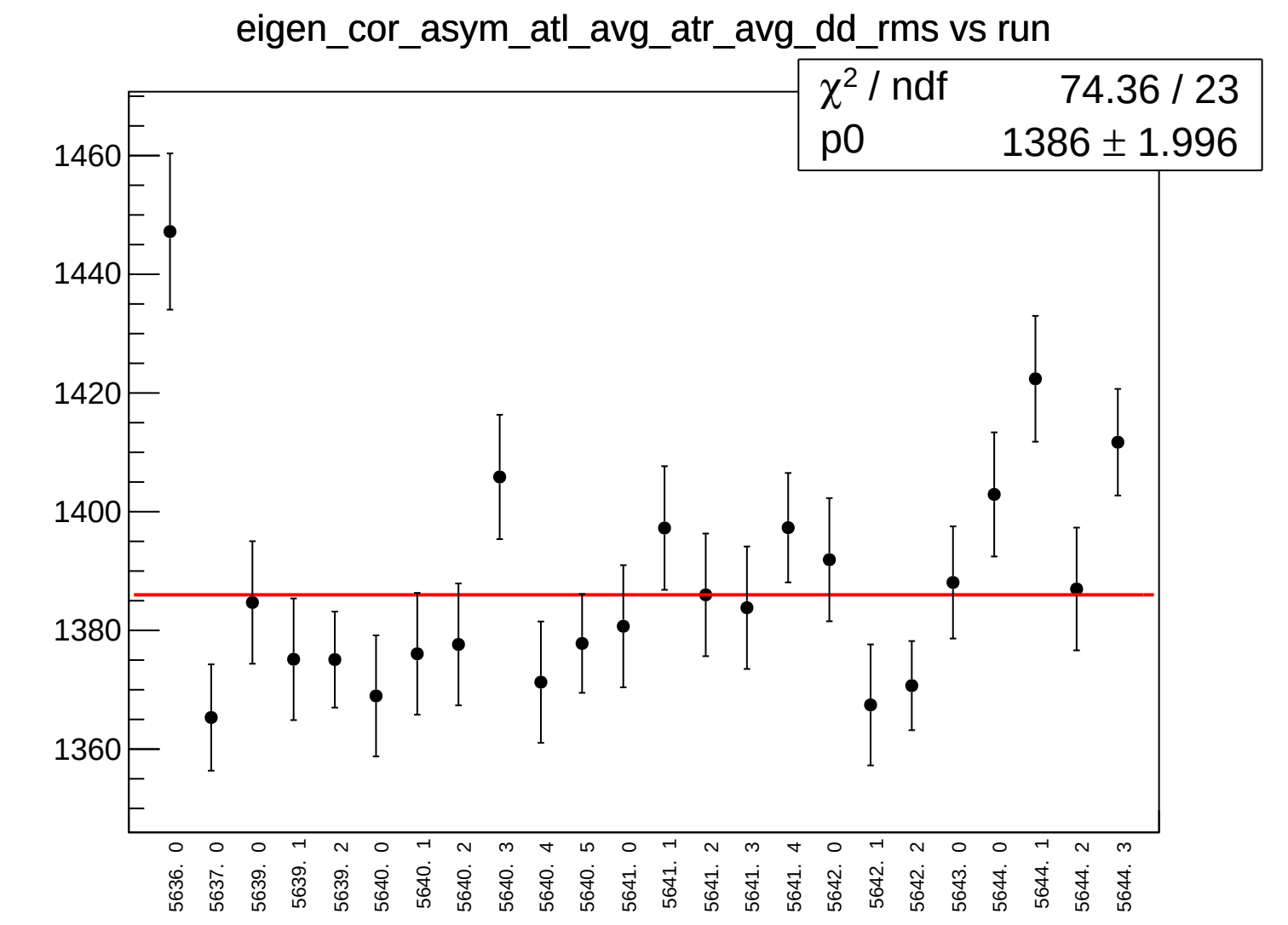
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

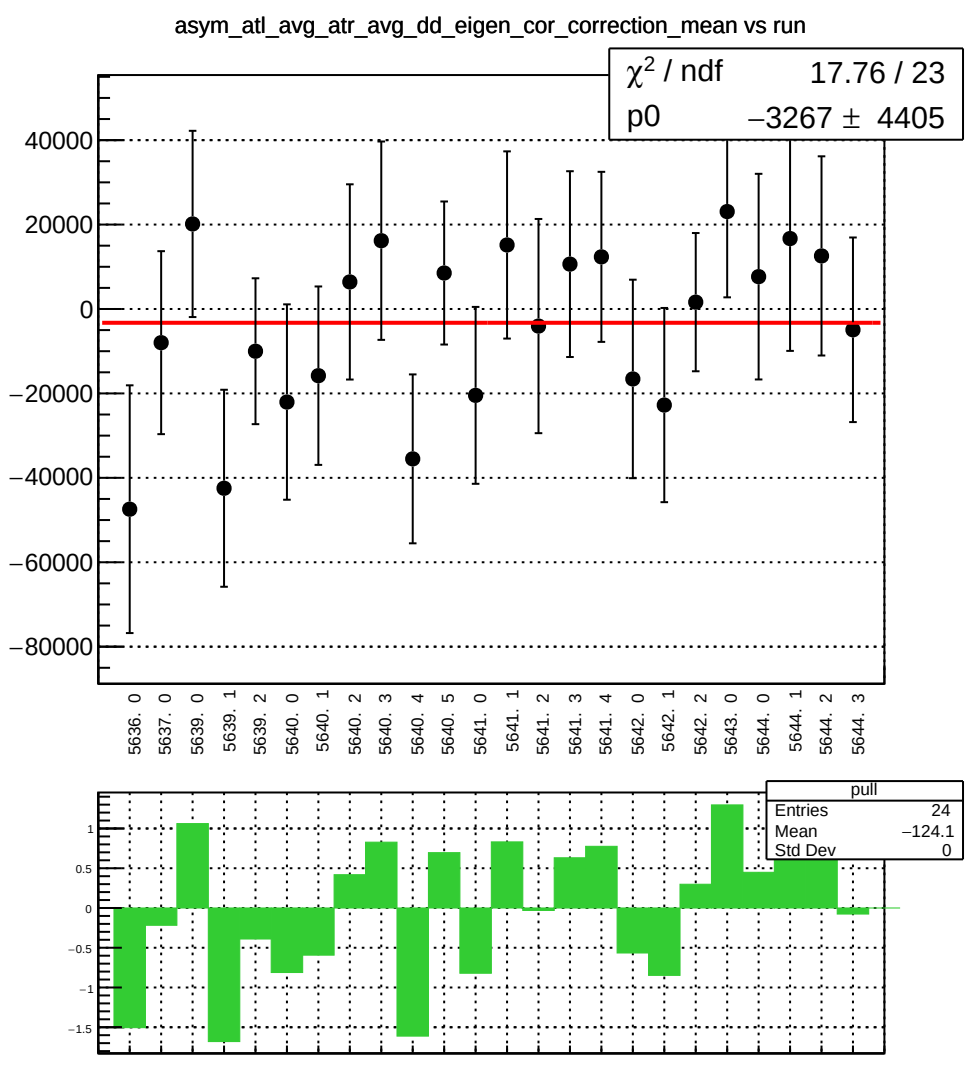

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 17.76 / 23
p0 −3267 ± 4405
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −124.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.0184
Std Dev 0.86
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

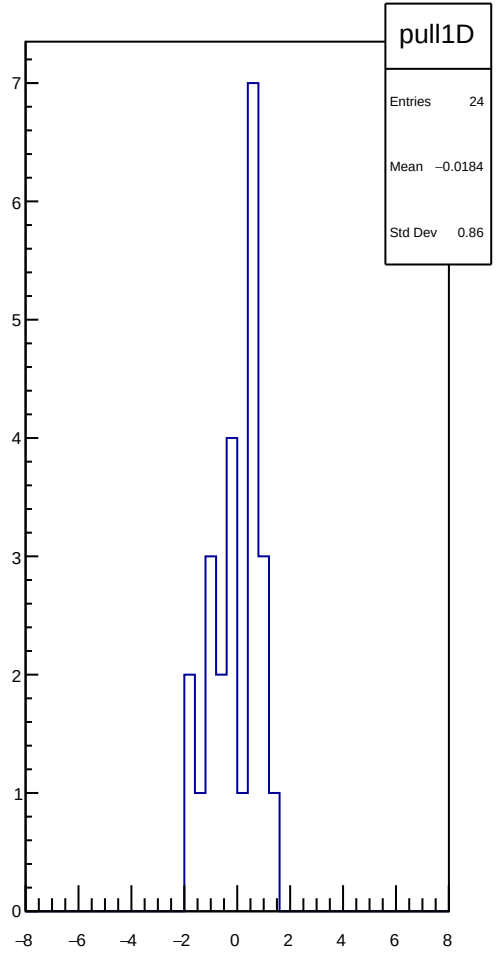

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 2121 / 23
p0 2158 ± 3.115
2600
2500
2400
2300
2200
2100
2000
1900
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

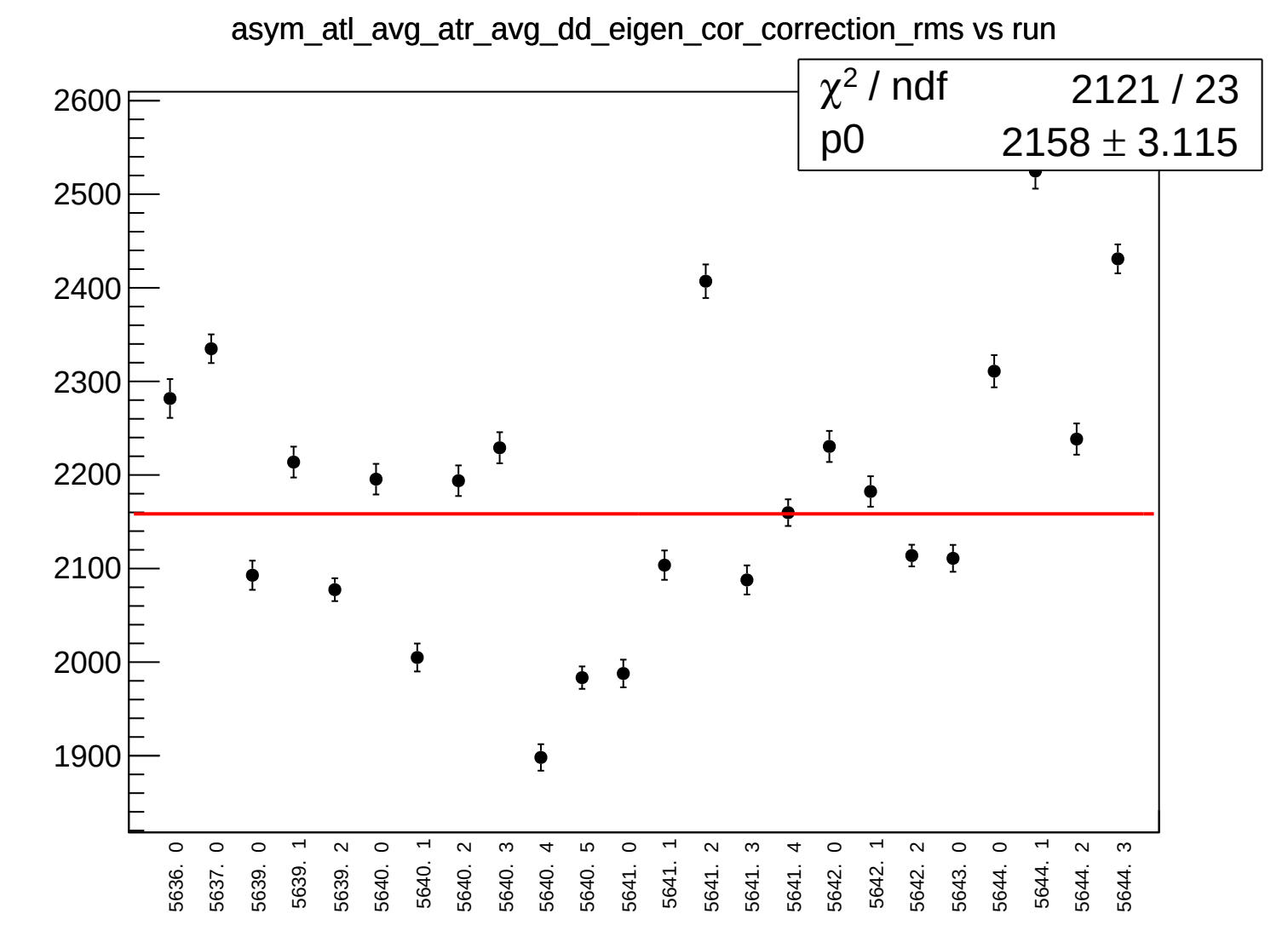

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 16.12 / 23
p0 −2571 ± 2823
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −65.88
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

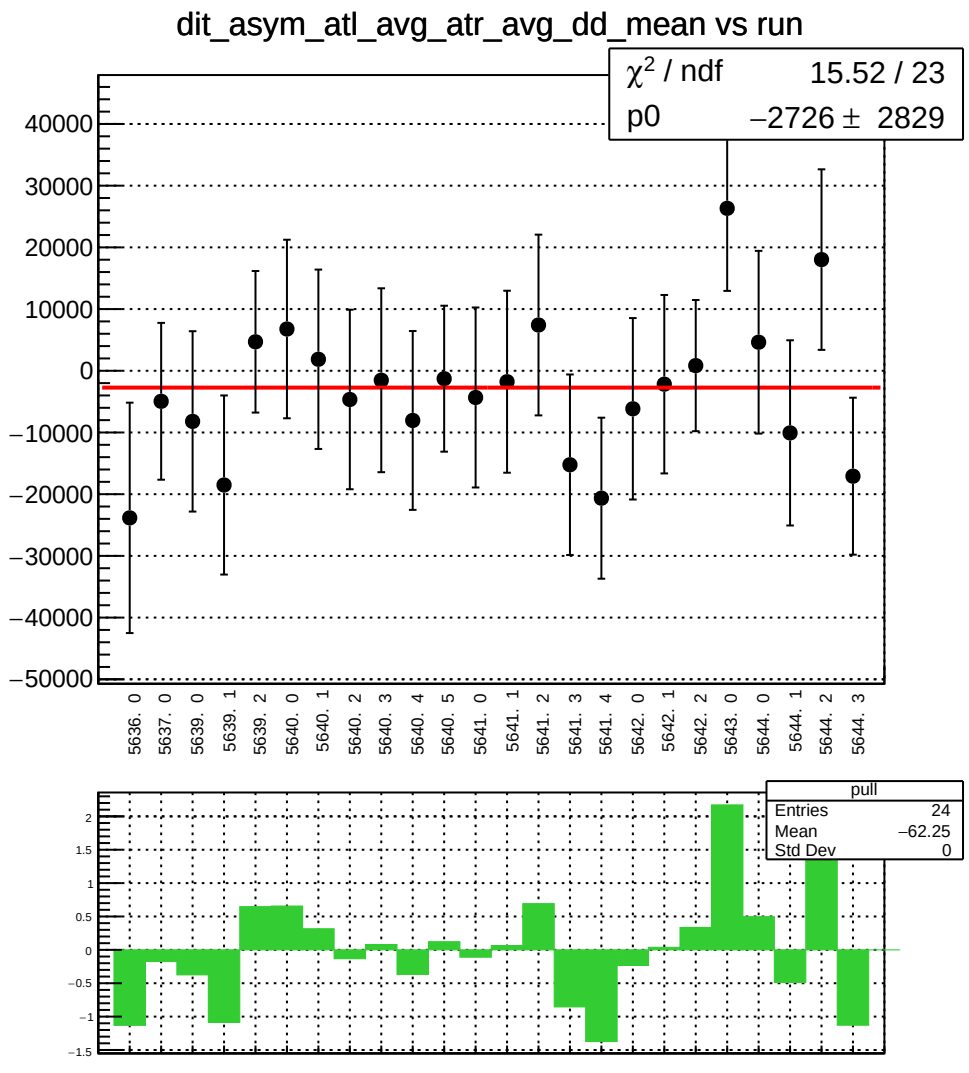

pull1D
Entries 24
Mean −0.01708
Std Dev 0.8192
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

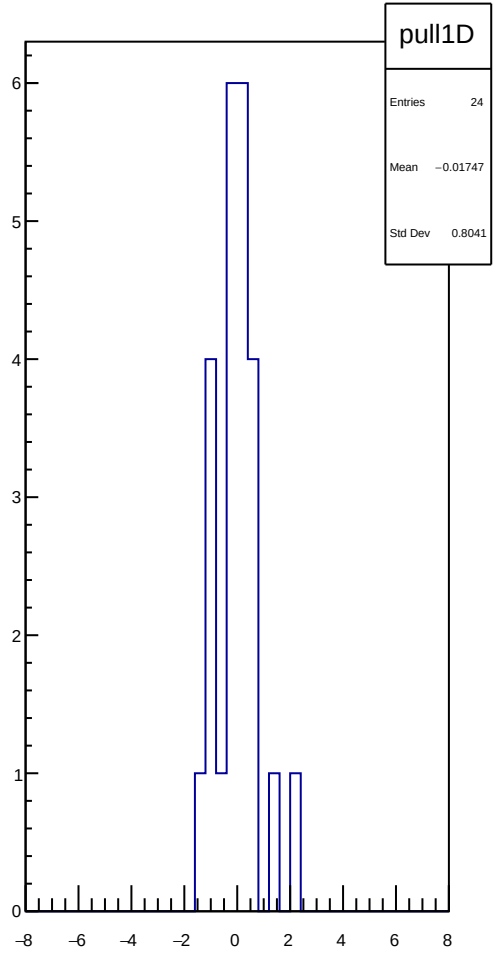

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 74.36 / 23
p0 1386 ± 1.996
1460
1440
1420
1400
1380
1360
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

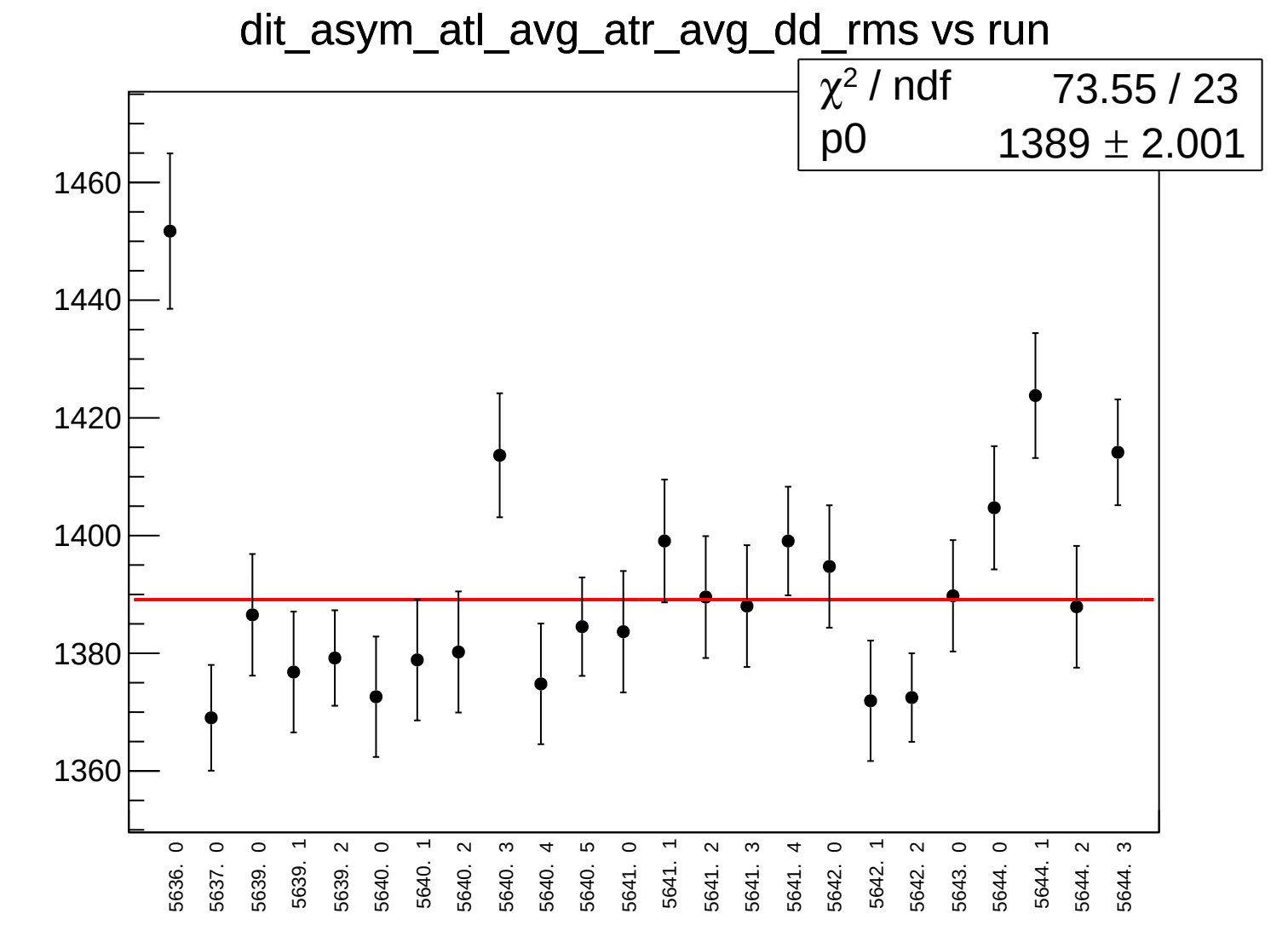

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 17.76 / 23
p0 −3267 ± 4405
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −124.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

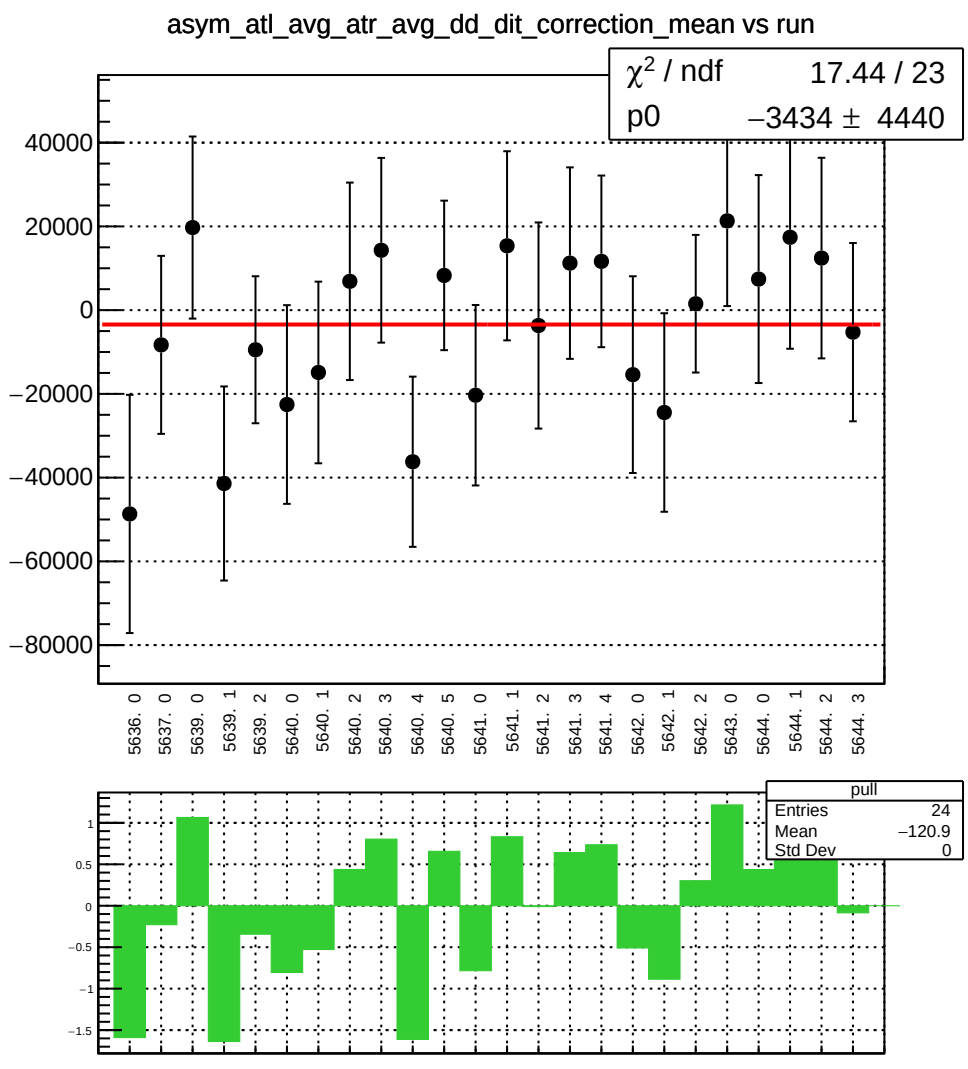

pull1D
Entries 24
Mean −0.0184
Std Dev 0.86
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

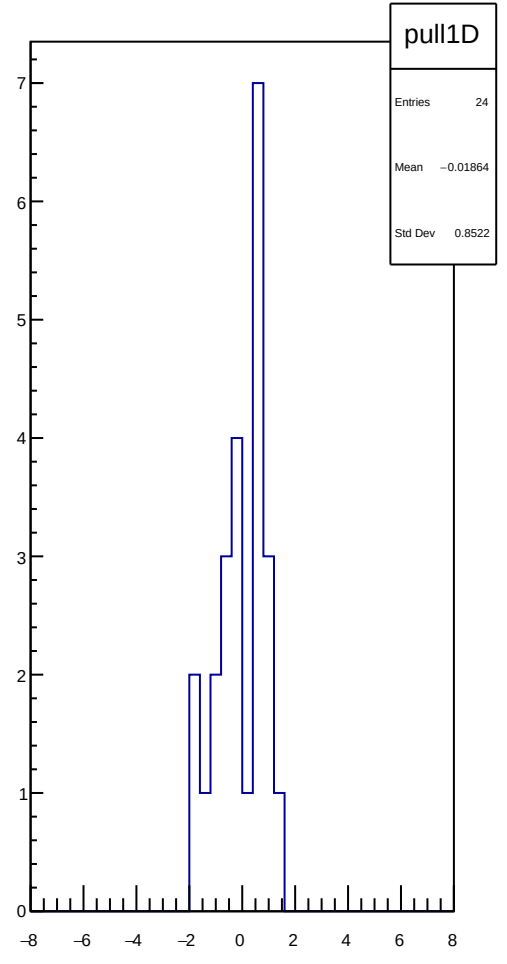

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2121 / 23
p0 2158 ± 3.115
2600
2500
2400
2300
2200
2100
2000
1900
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

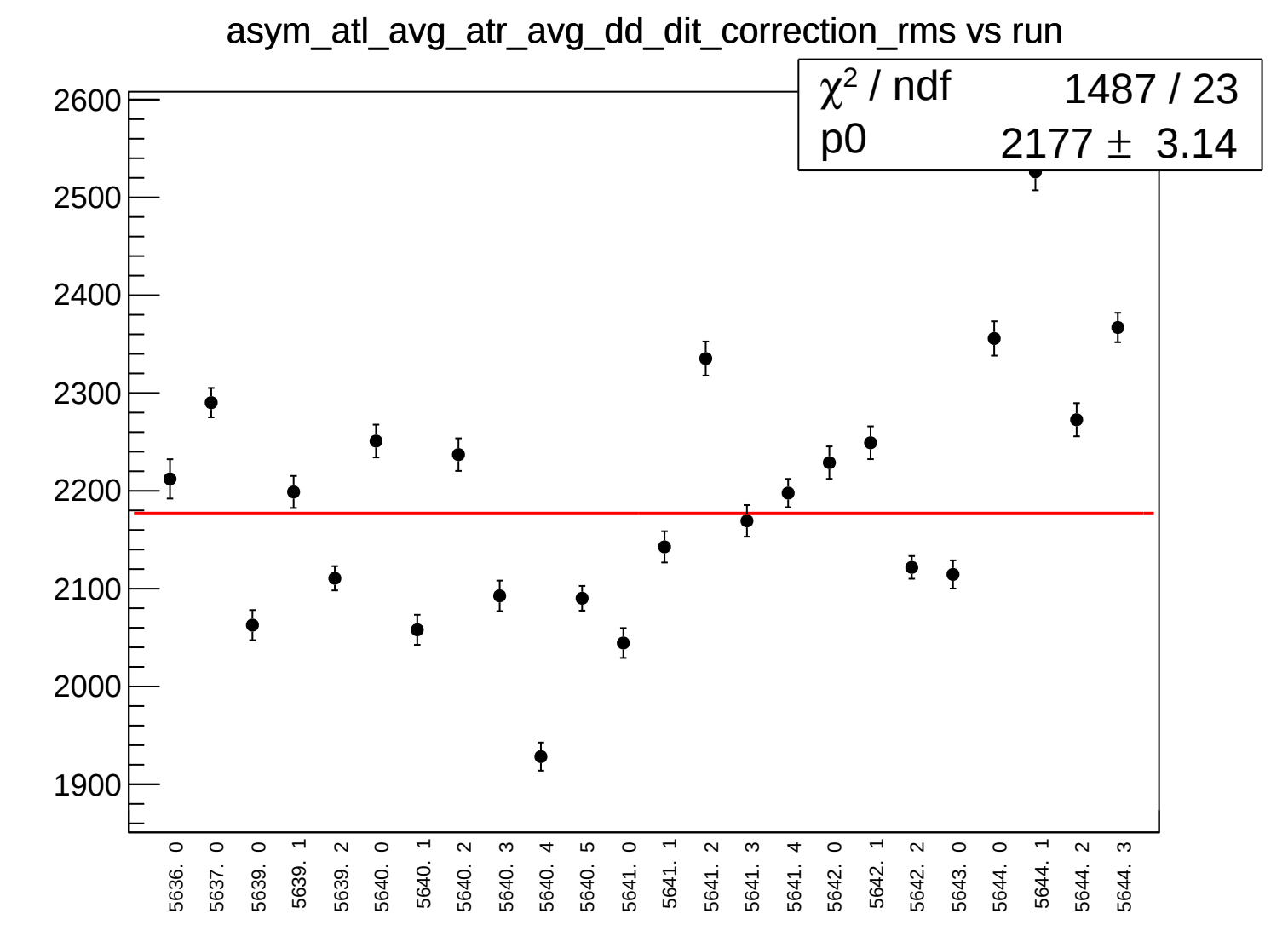

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 15.52 / 23
p0 −2726 ± 2829
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −62.25
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

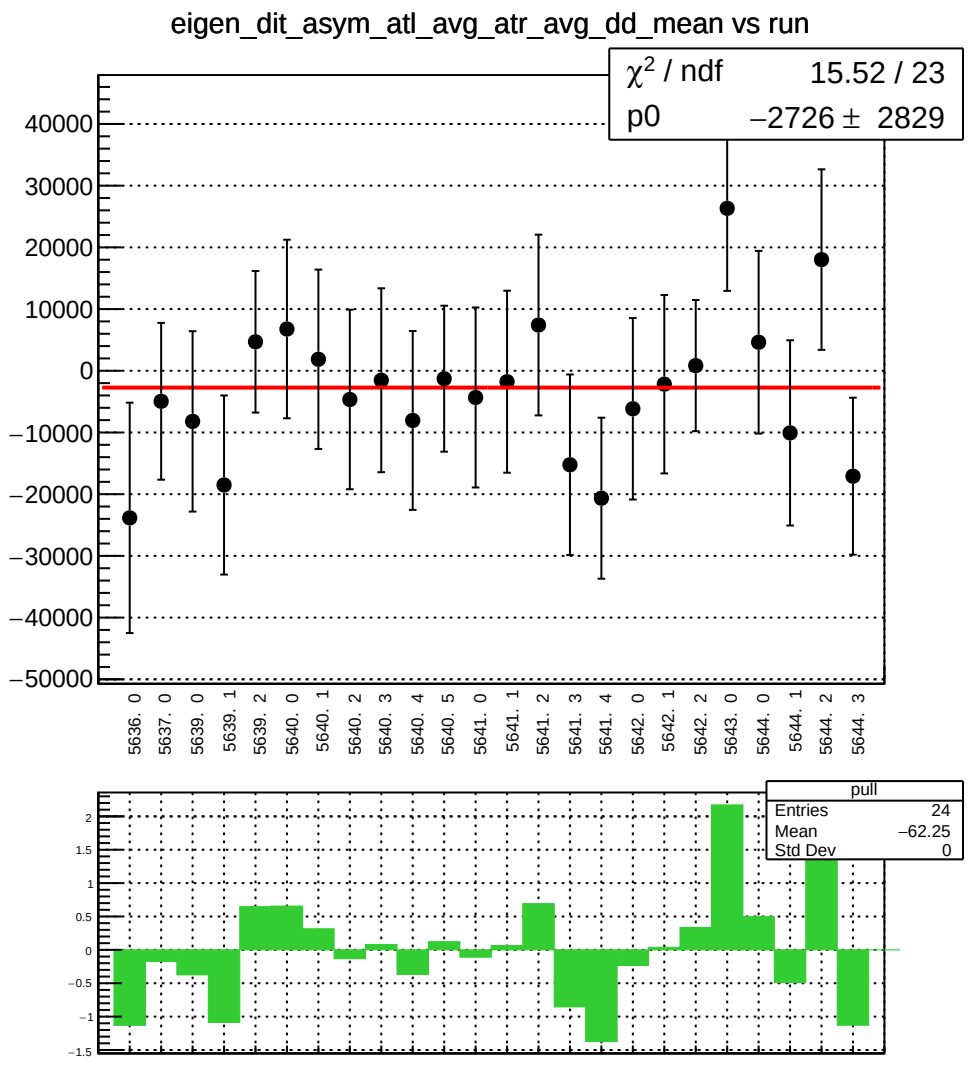

pull1D
Entries 24
Mean −0.01747
Std Dev 0.8041
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

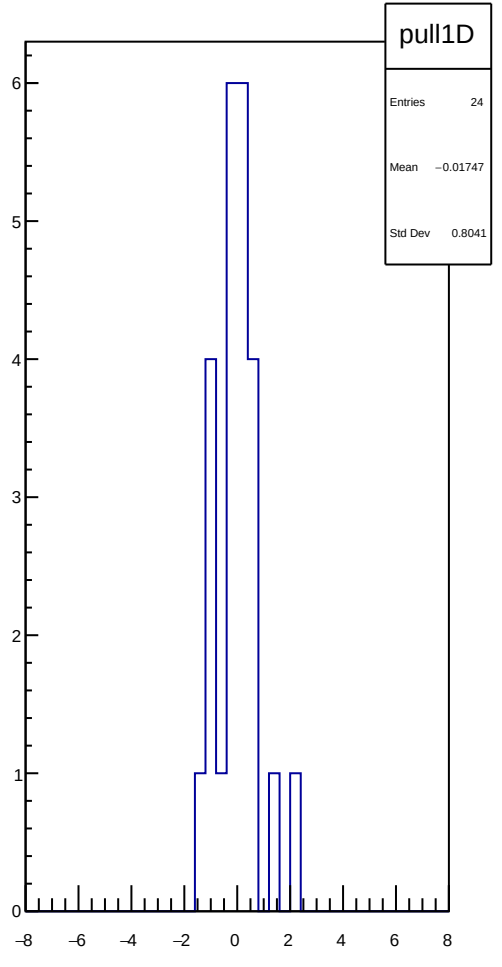

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 73.55 / 23
p0 1389 ± 2.001
1460
1440
1420
1400
1380
1360
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

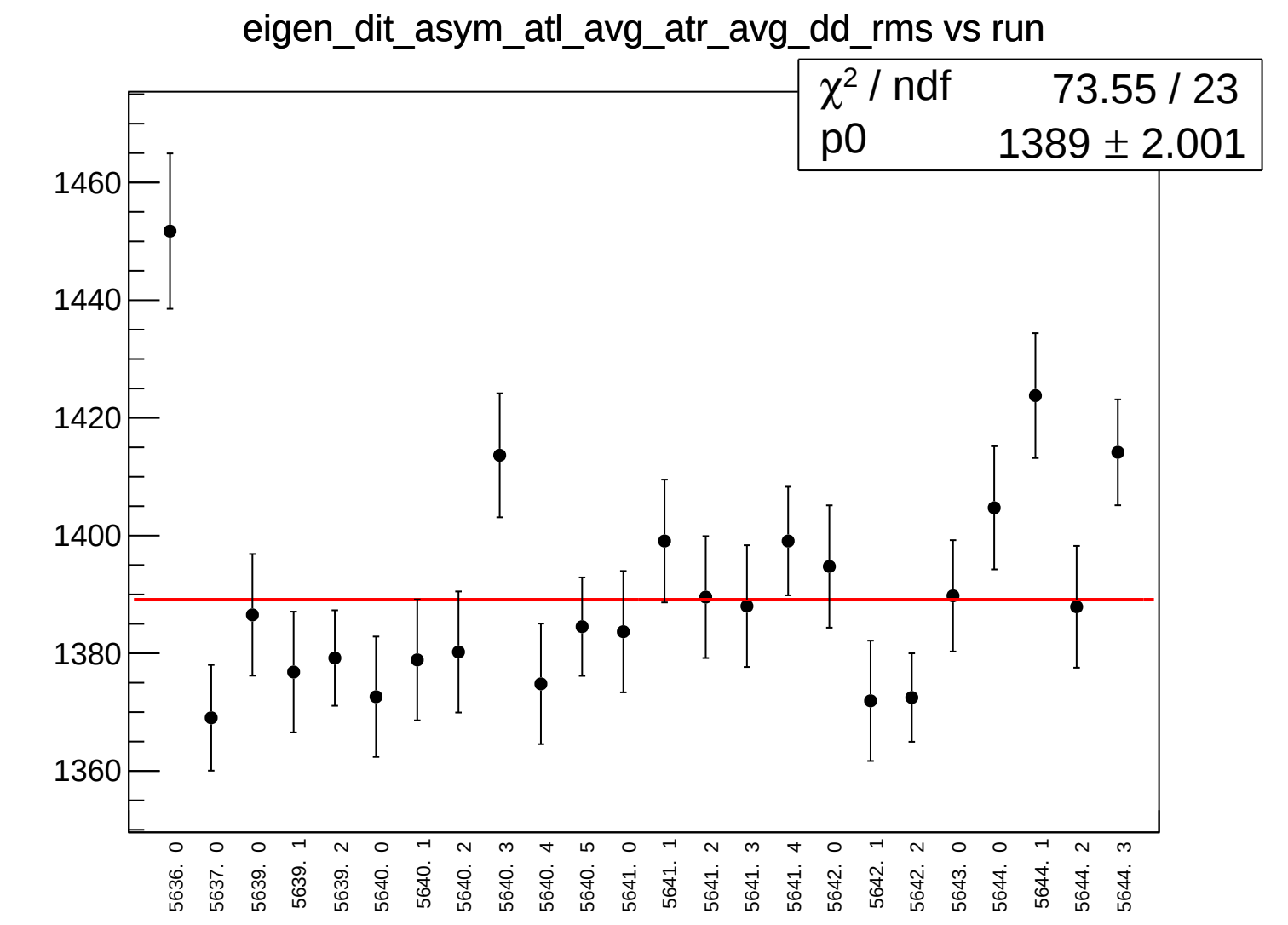

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 17.44 / 23
p0 −3434 ± 4440
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −120.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

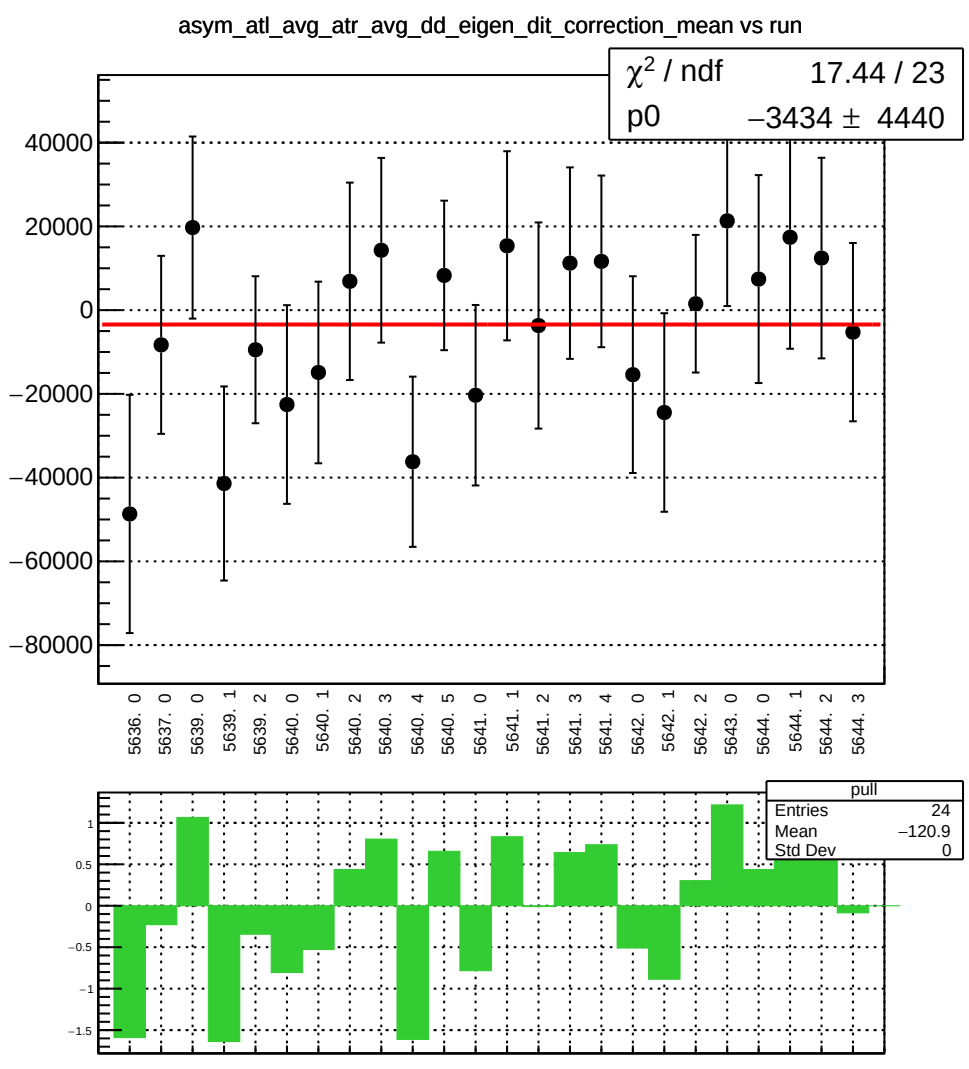

pull1D
Entries 24
Mean −0.01864
Std Dev 0.8522
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

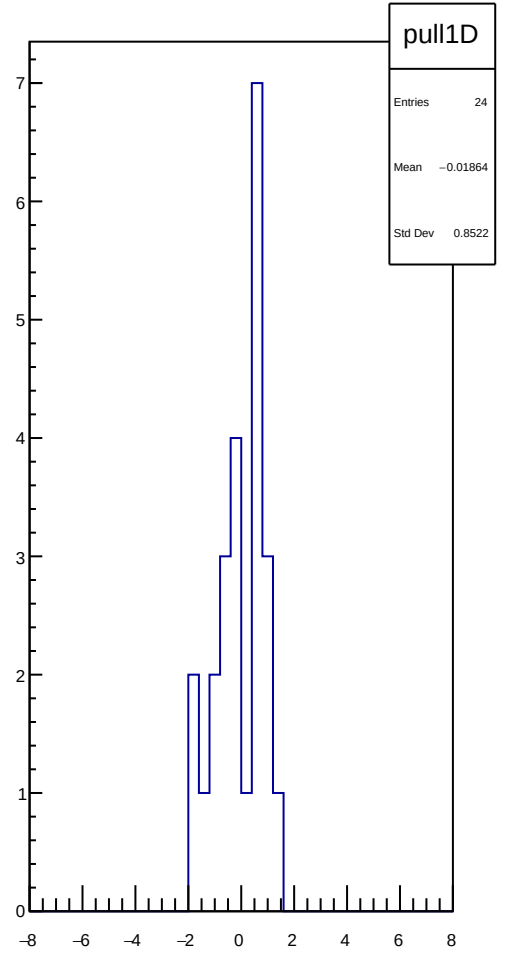

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 1487 / 23
p0 2177 ± 3.14
2600
2500
2400
2300
2200
2100
2000
1900
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

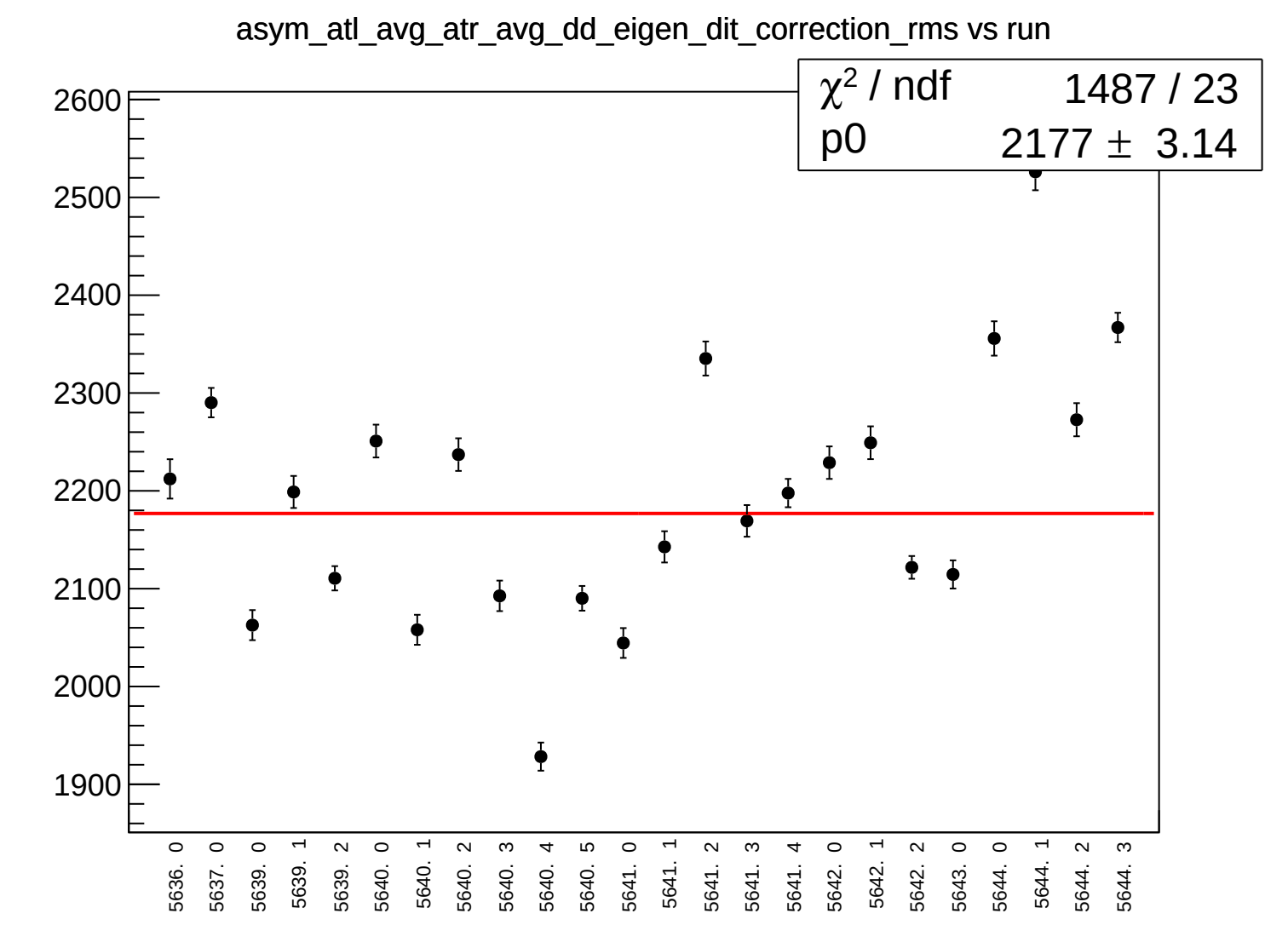

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 15.52 / 23
p0 −2726 ± 2829
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −62.25
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

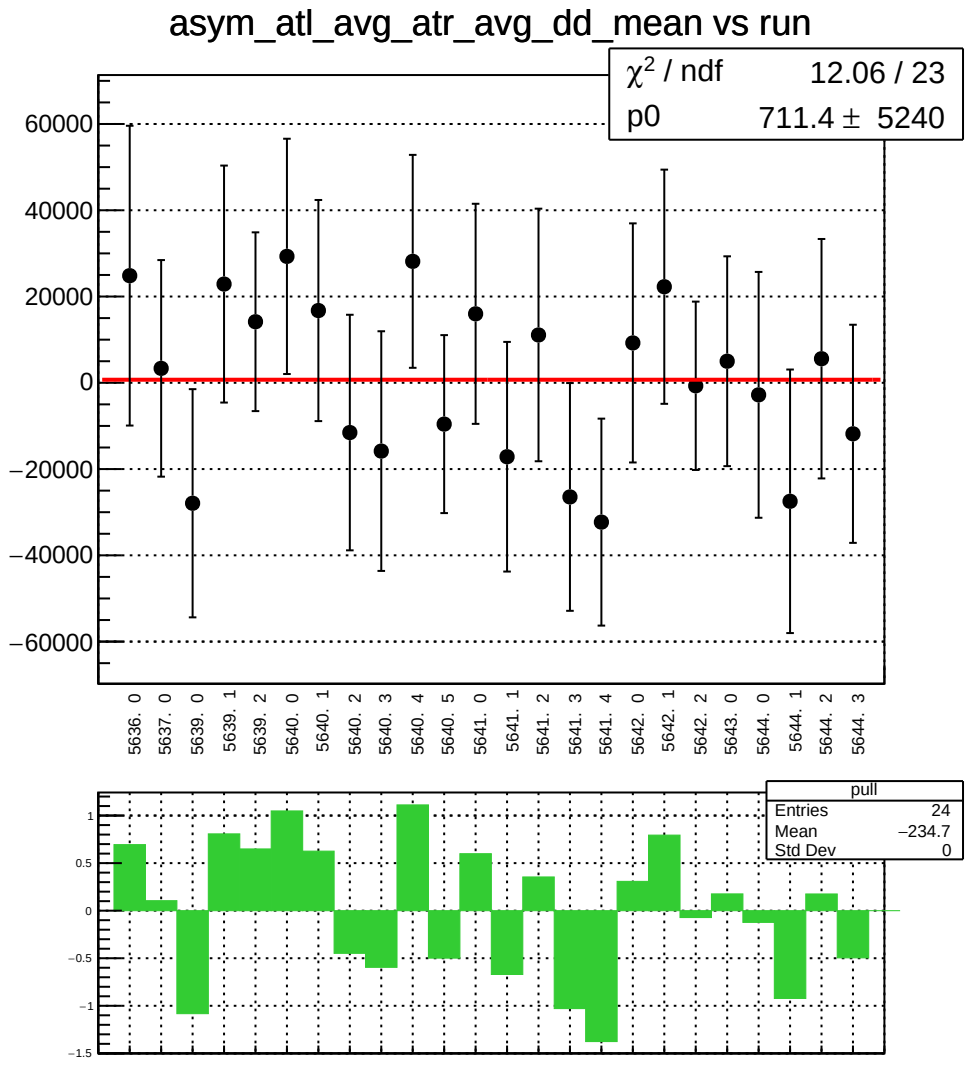

pull1D
Entries 24
Mean −0.01747
Std Dev 0.8041
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

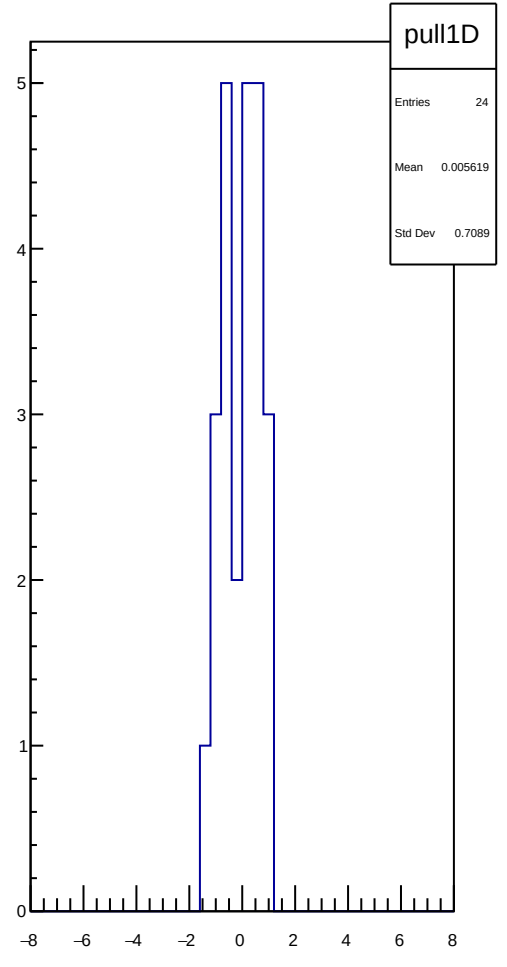

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 73.55 / 23
p0 1389 ± 2.001
1460
1440
1420
1400
1380
1360
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

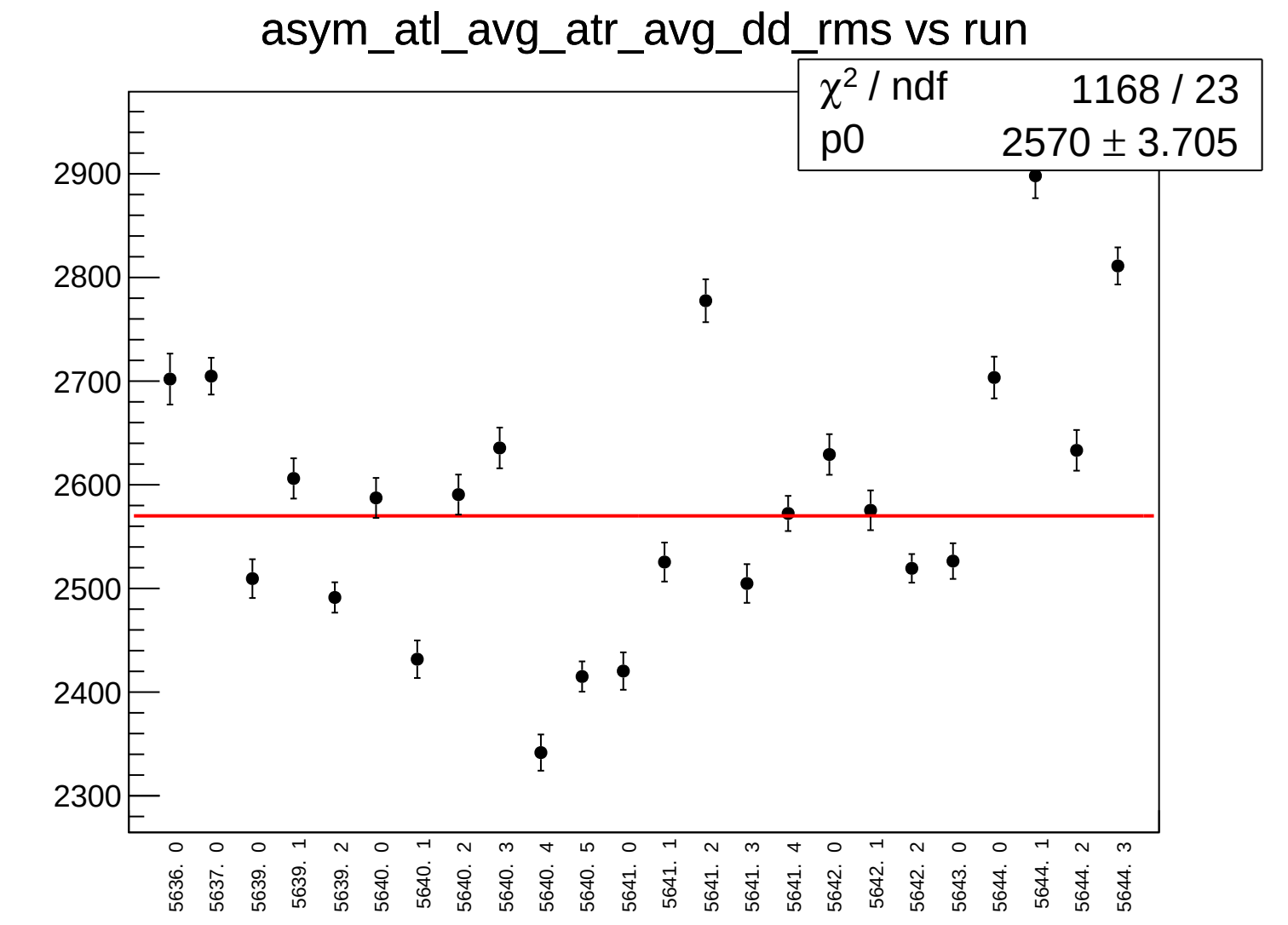

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 17.44 / 23
p0 −3434 ± 4440
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −120.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

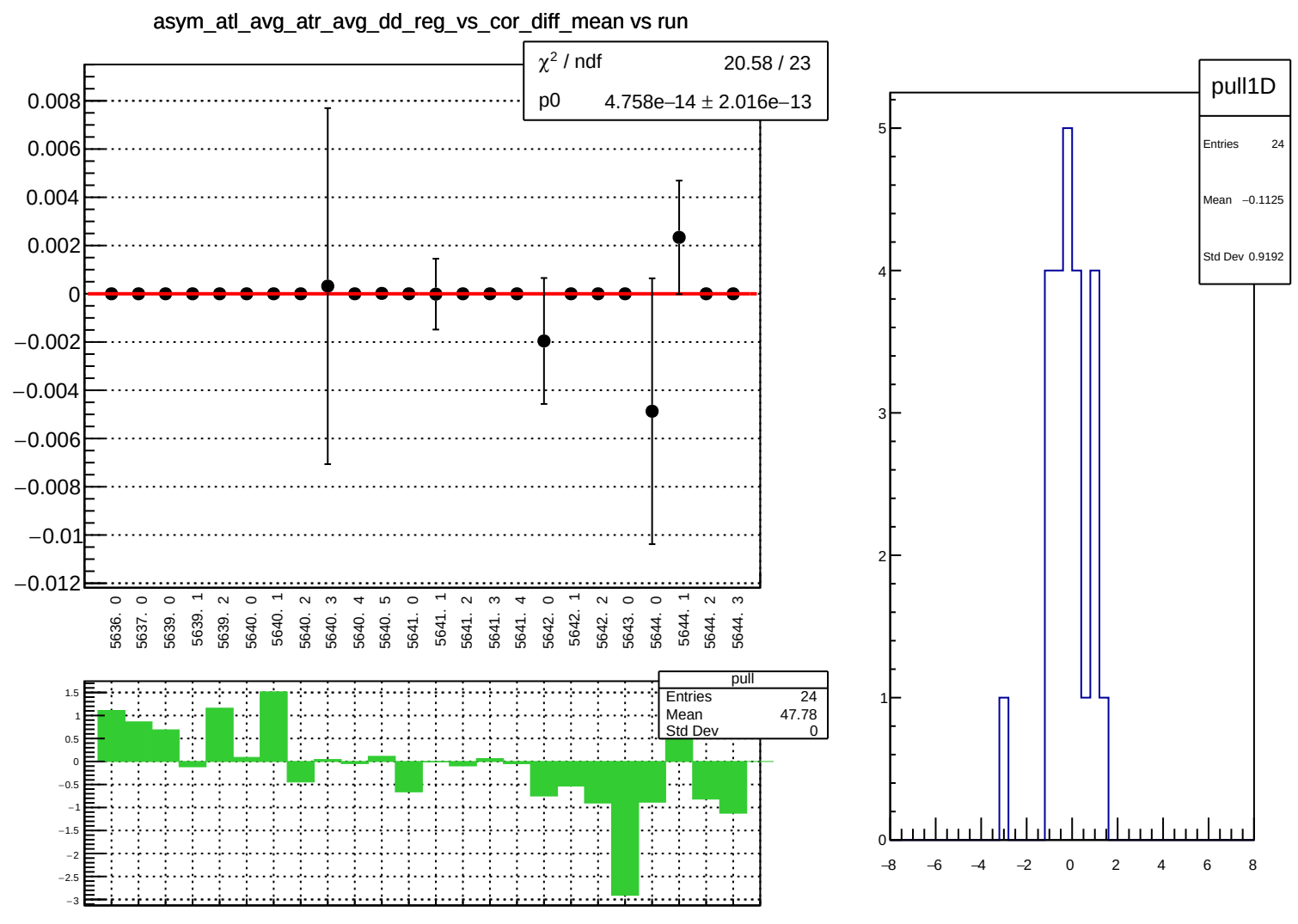

pull1D
Entries 24
Mean −0.01864
Std Dev 0.8522
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

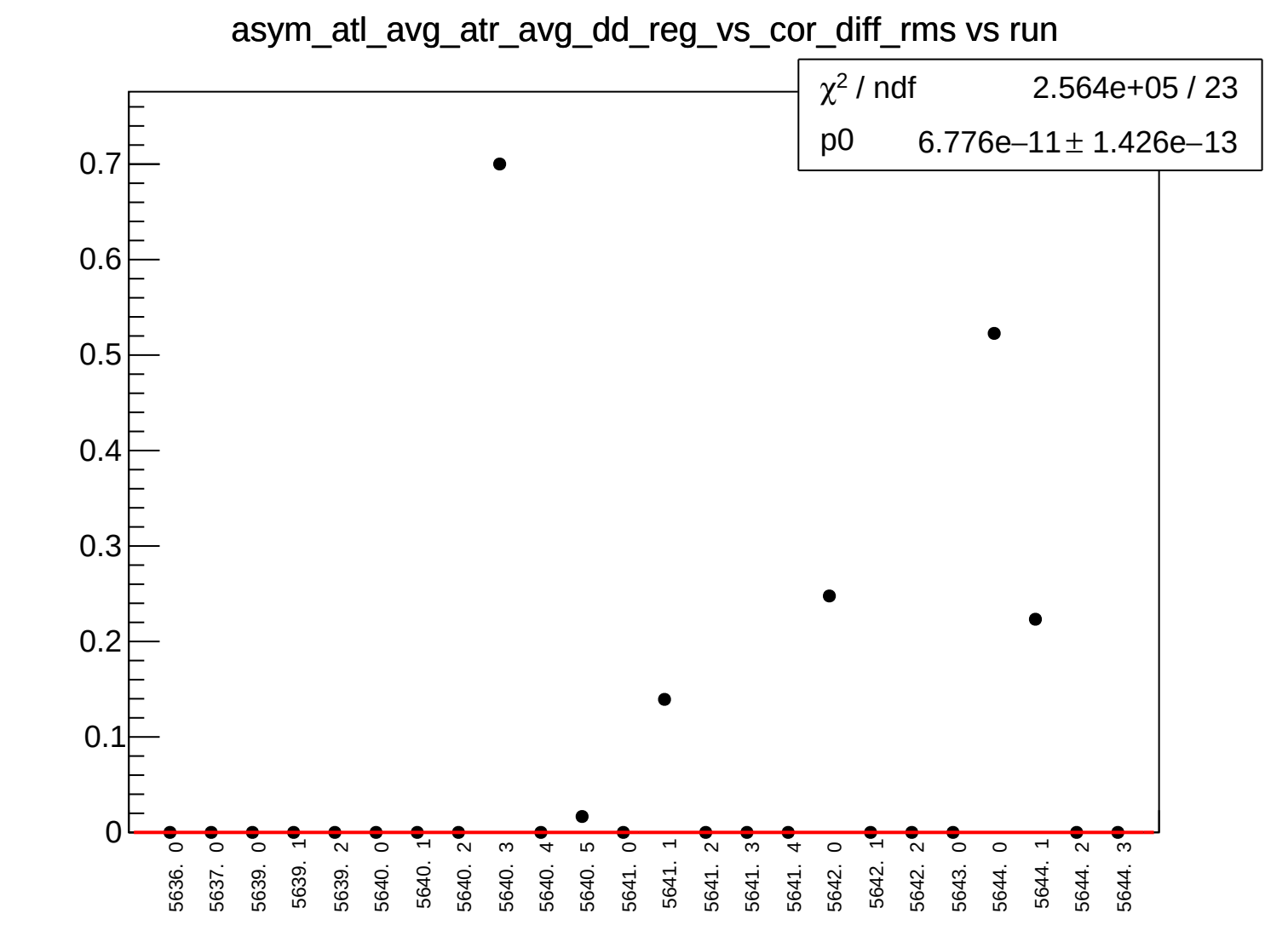

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1487 / 23
p0 2177 ± 3.14
2600
2500
2400
2300
2200
2100
2000
1900
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

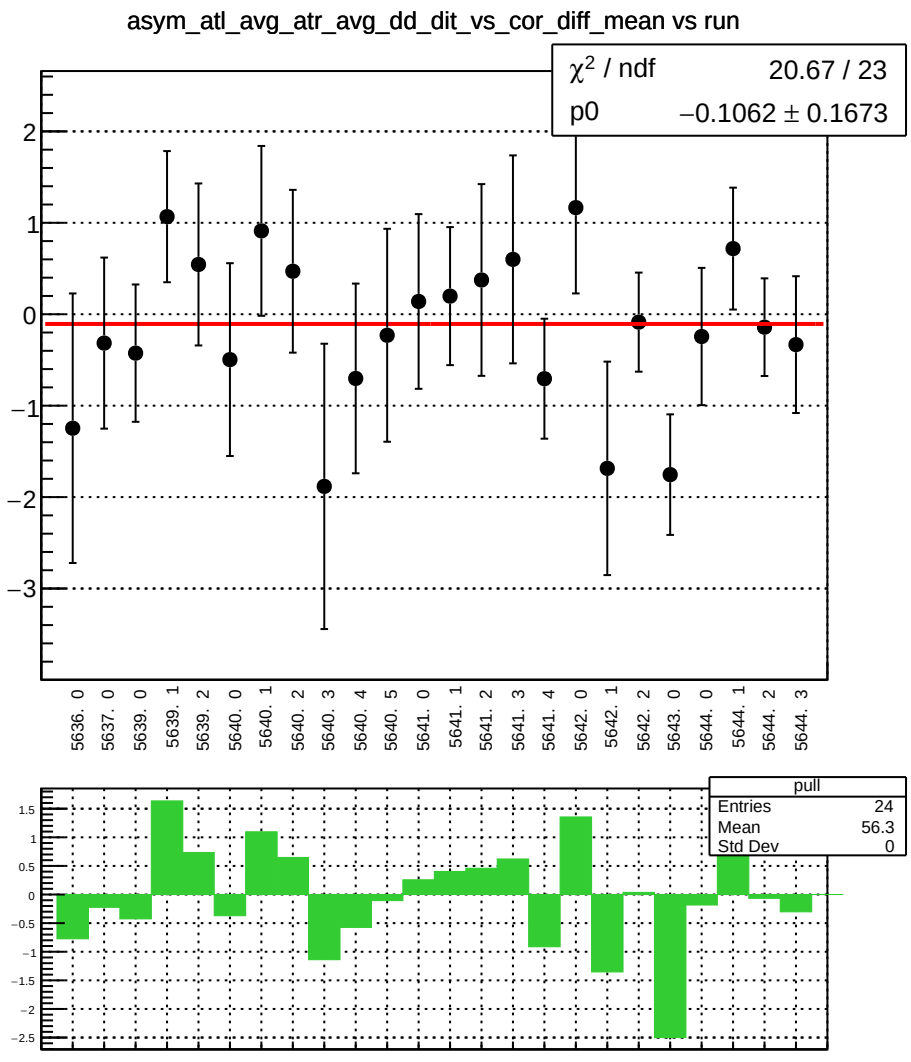

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 12.06 / 23
p0 711.4 ± 5240
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −234.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

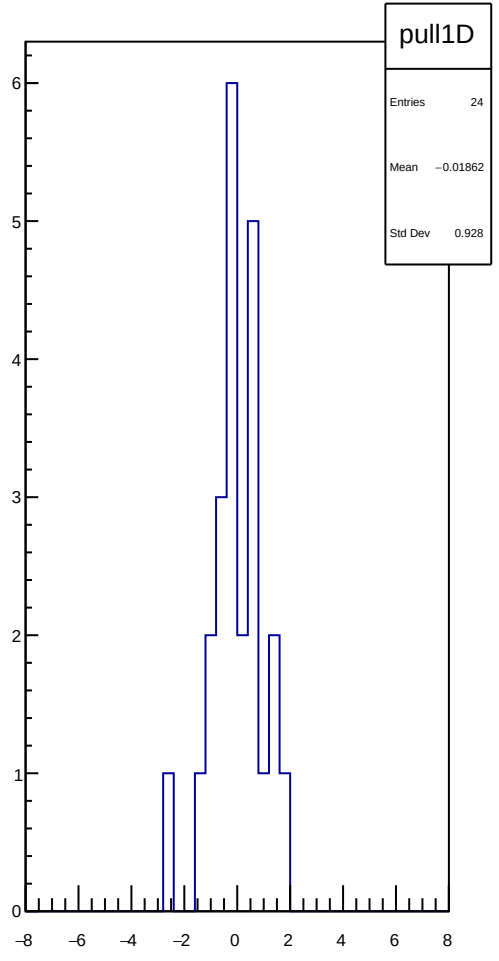

pull1D
Entries 24
Mean 0.005619
Std Dev 0.7089
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

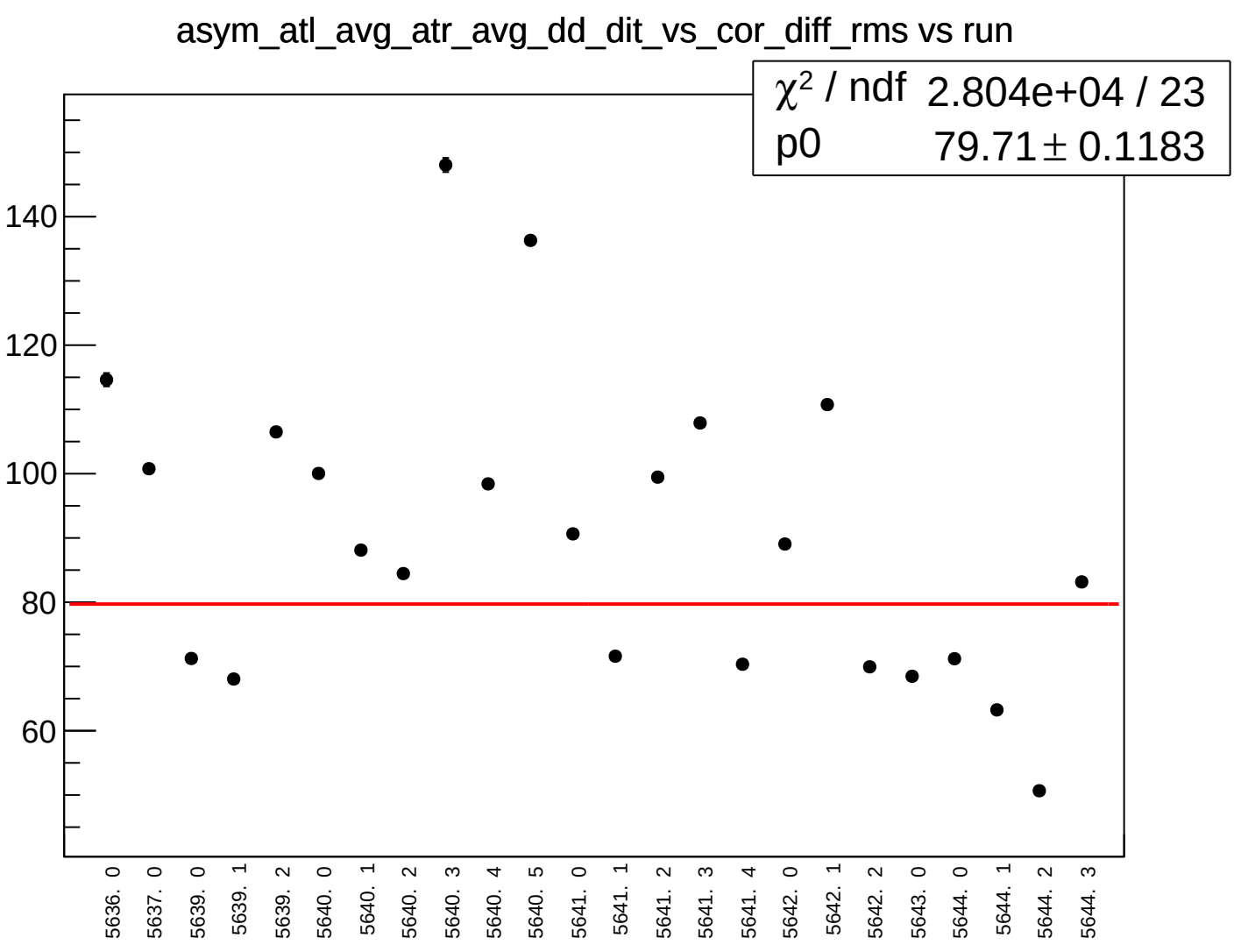

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1168 / 23
p0 2570 ± 3.705
2900
2800
2700
2600
2500
2400
2300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

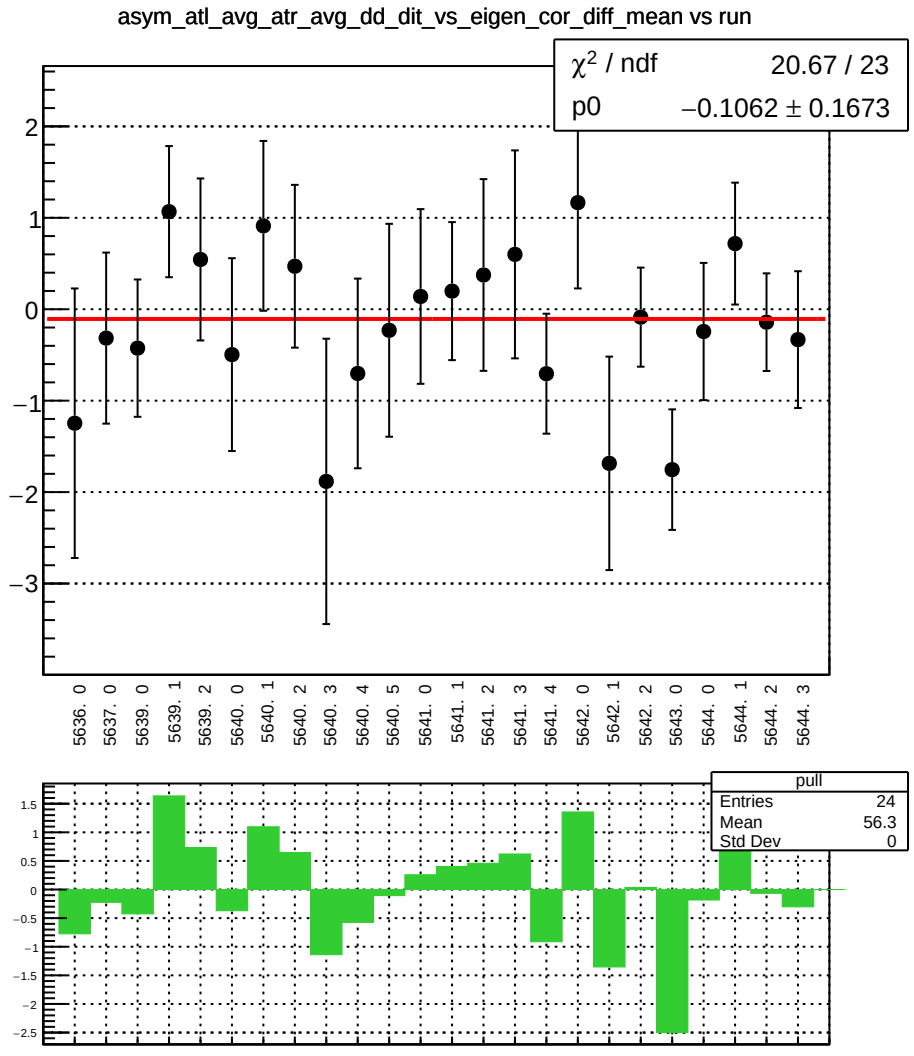

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 20.58 / 23
p0 4.758e−14 ± 2.016e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
−0.012
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 47.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 24
Mean −0.1125
Std Dev 0.9192
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

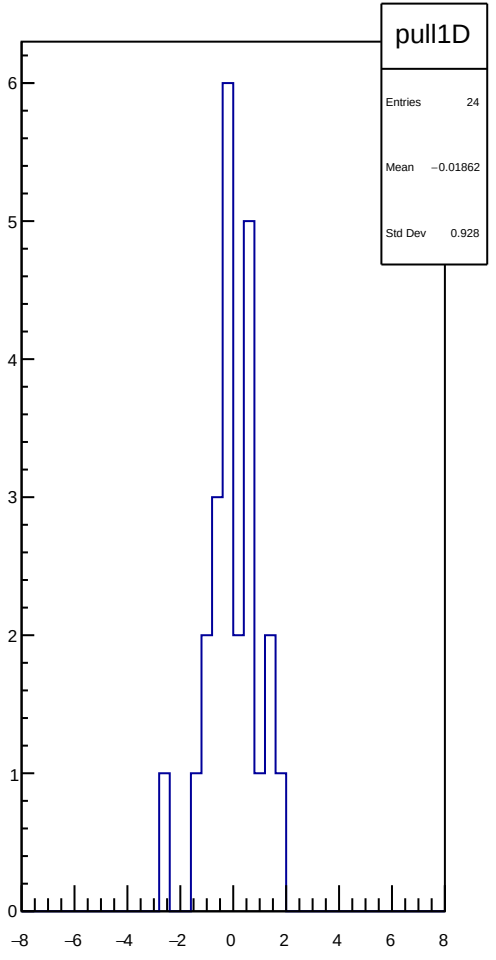

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.564e+05 / 23
p0 6.776e−11 ± 1.426e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

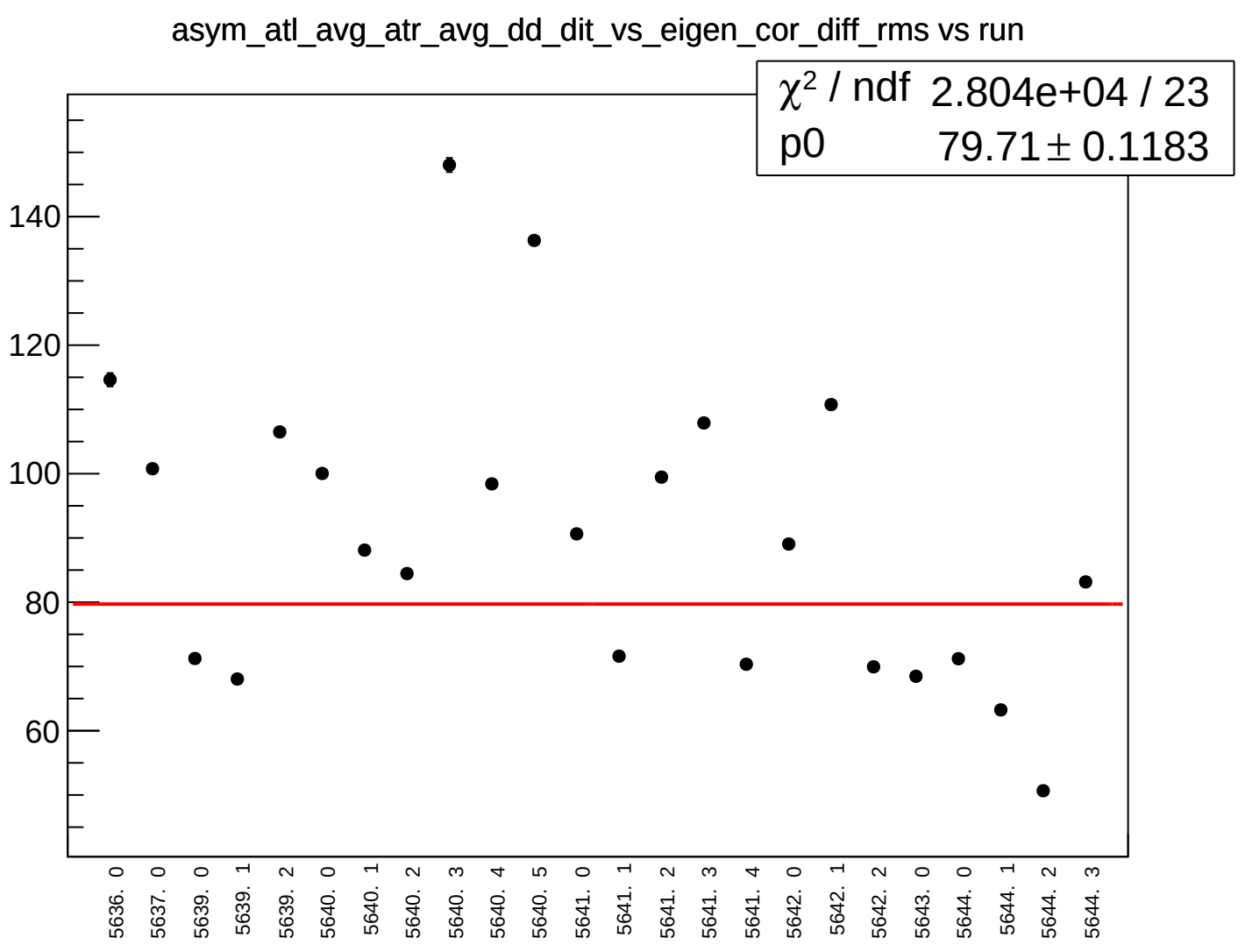

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 20.67 / 23
p0 −0.1062 ± 0.1673
2
1
0
−1
−2
−3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 56.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

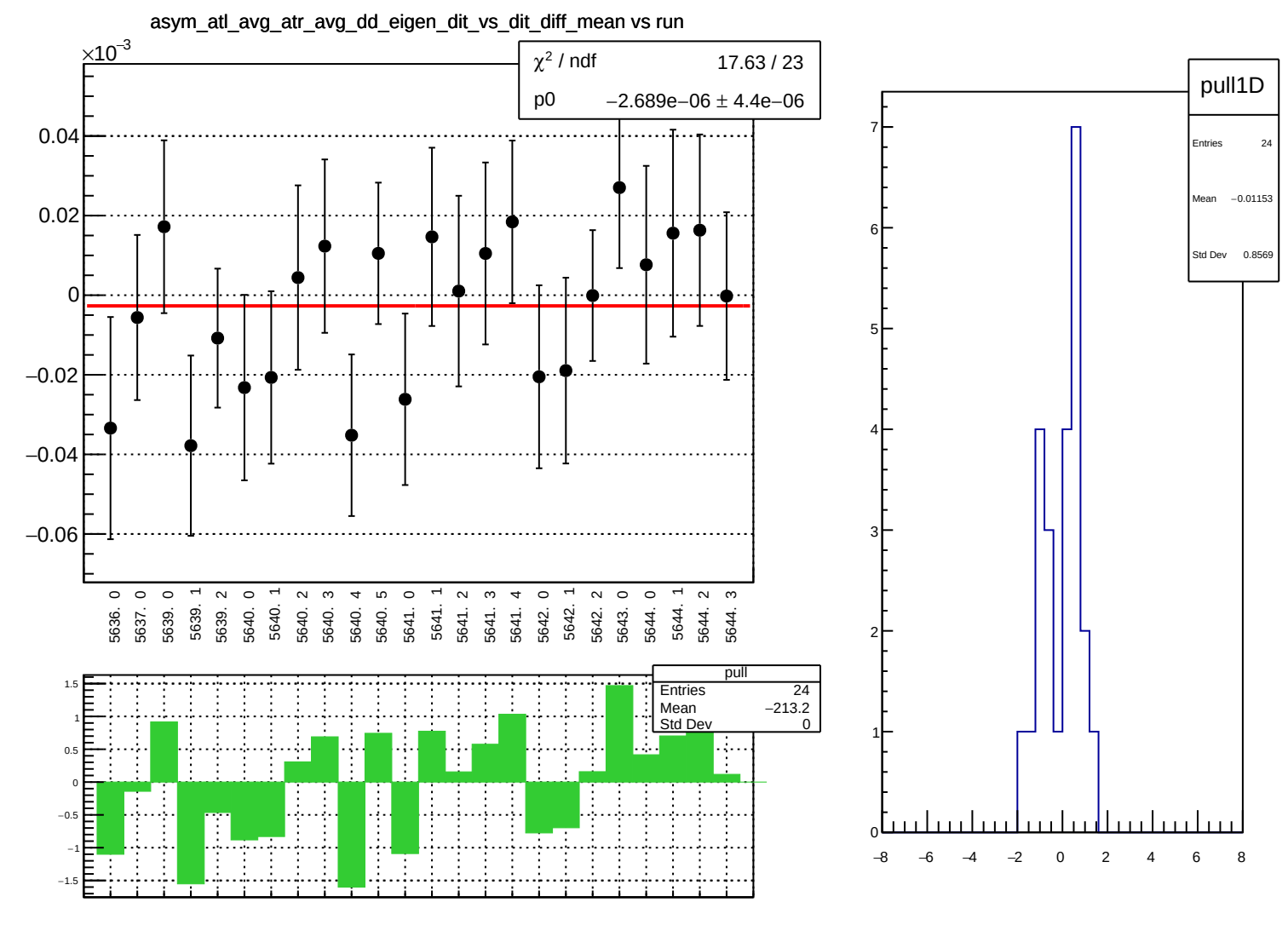

pull1D
Entries 24
Mean −0.01862
Std Dev 0.928
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

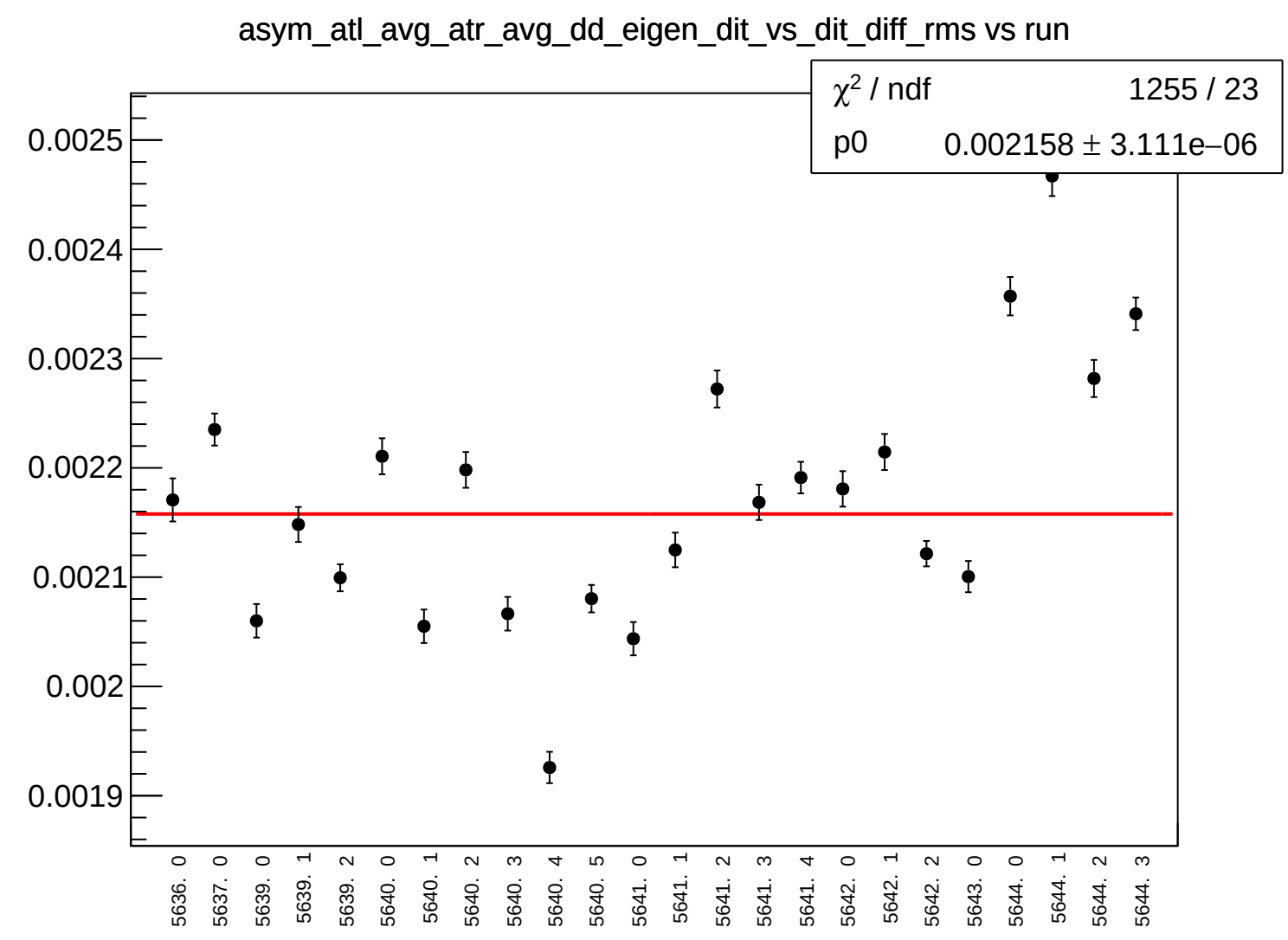

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.804e+04 / 23
p0 79.71 ± 0.1183
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

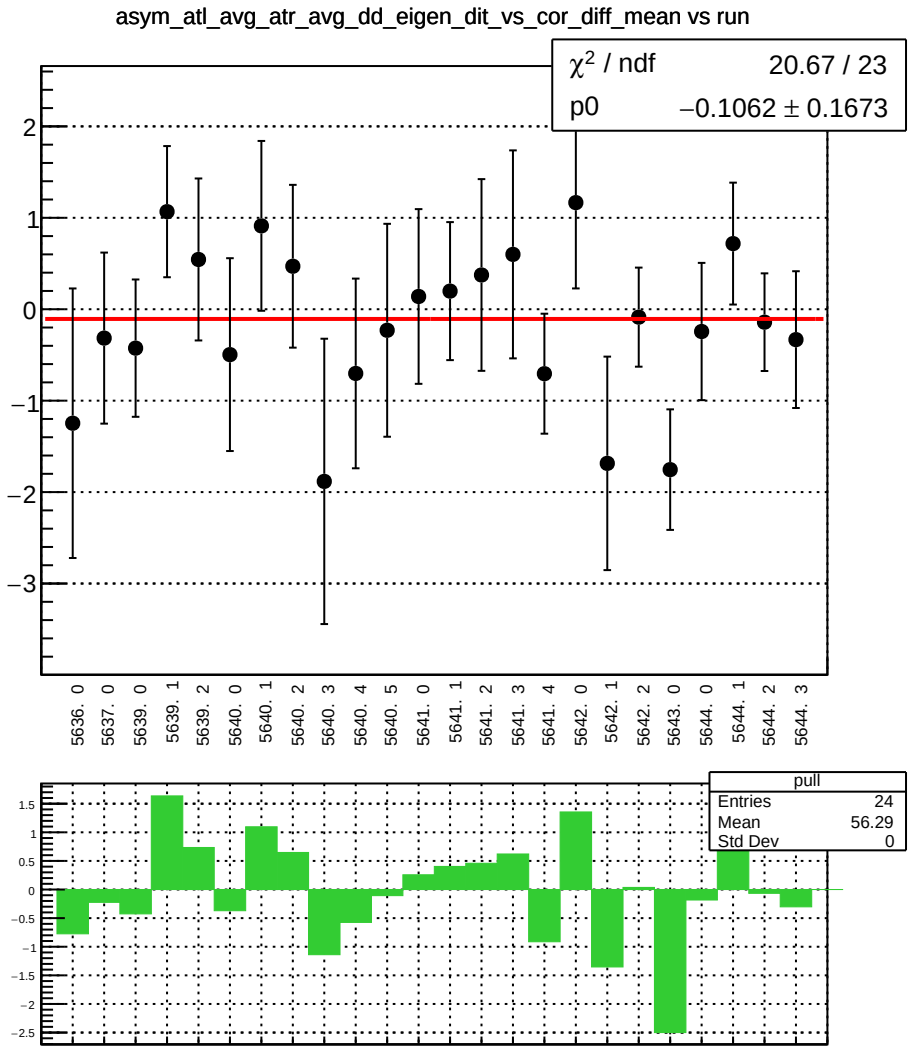

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 20.67 / 23
p0 −0.1062 ± 0.1673
2
1
0
−1
−2
−3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 56.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

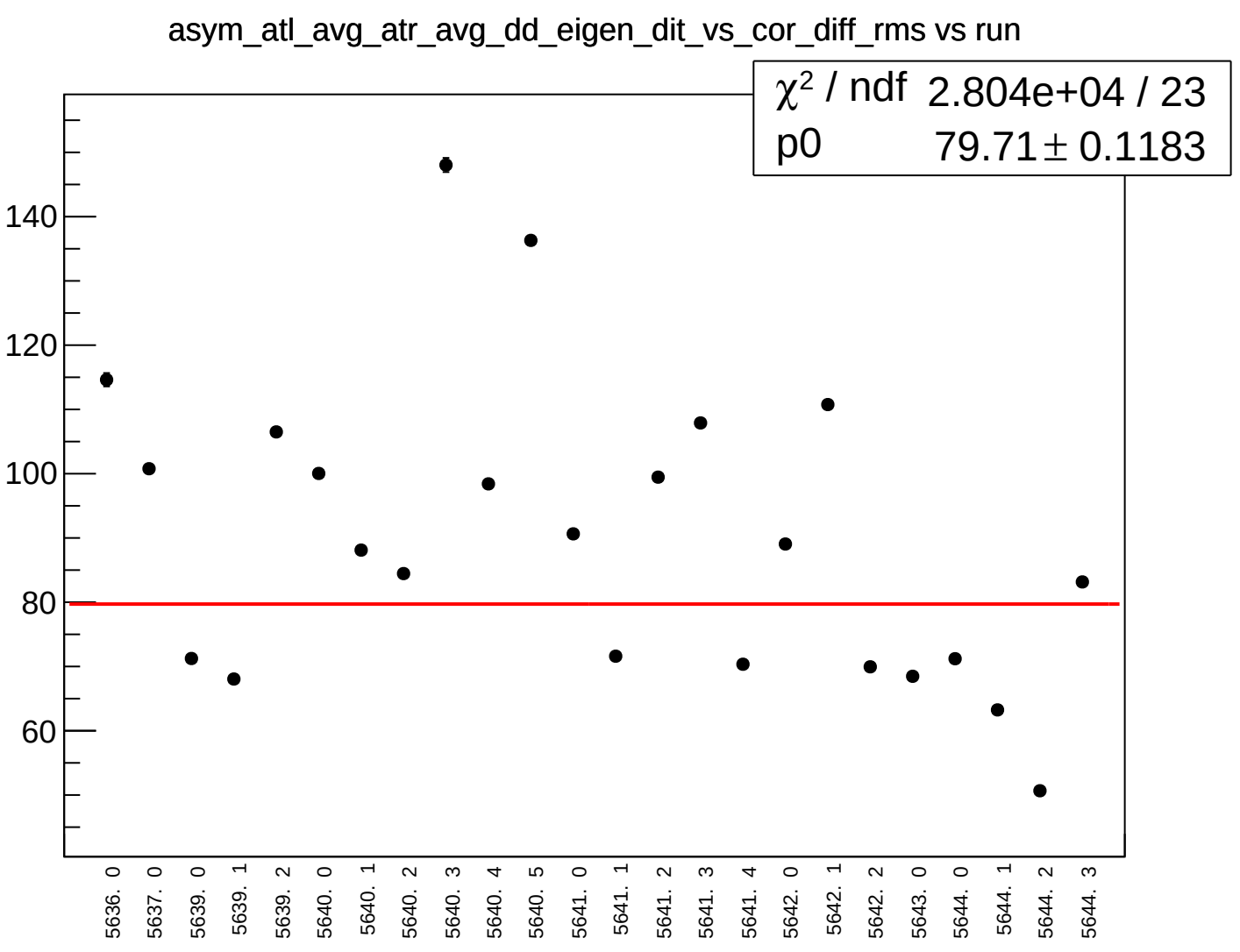

pull1D
Entries 24
Mean −0.01862
Std Dev 0.928
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

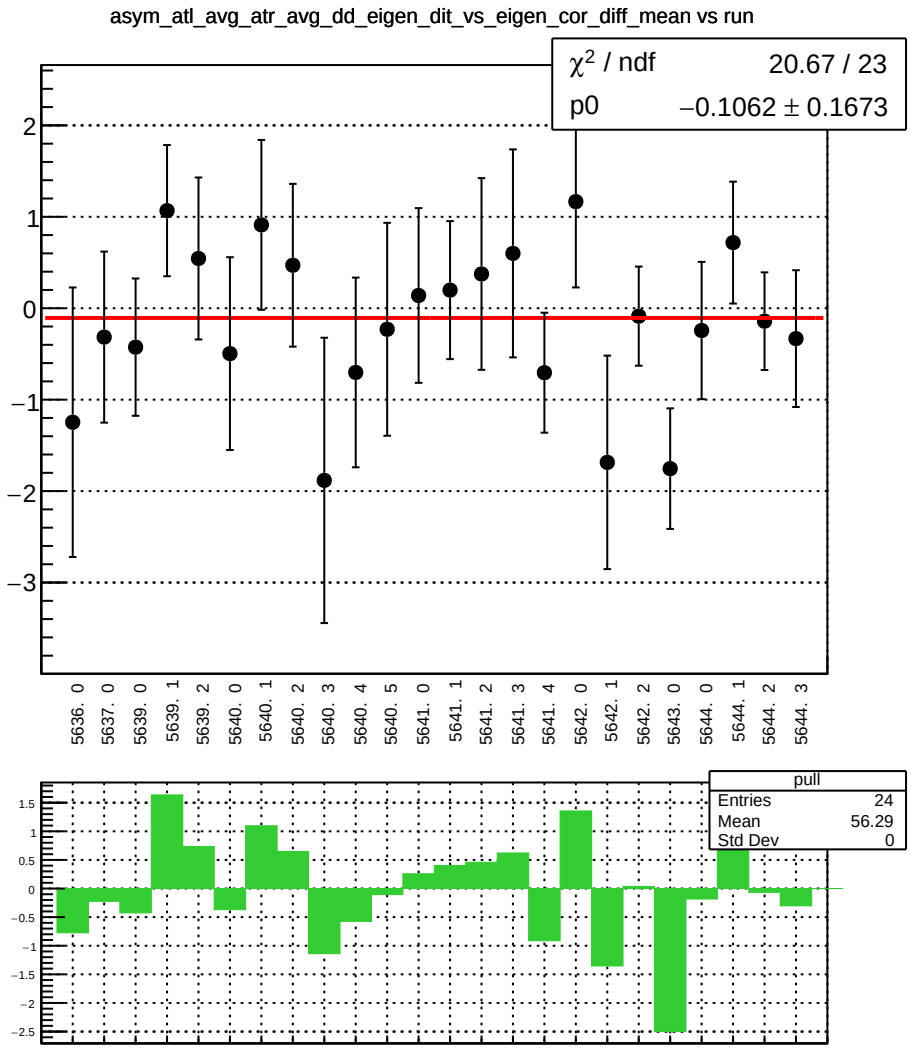

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.804e+04 / 23
p0 79.71 ± 0.1183
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

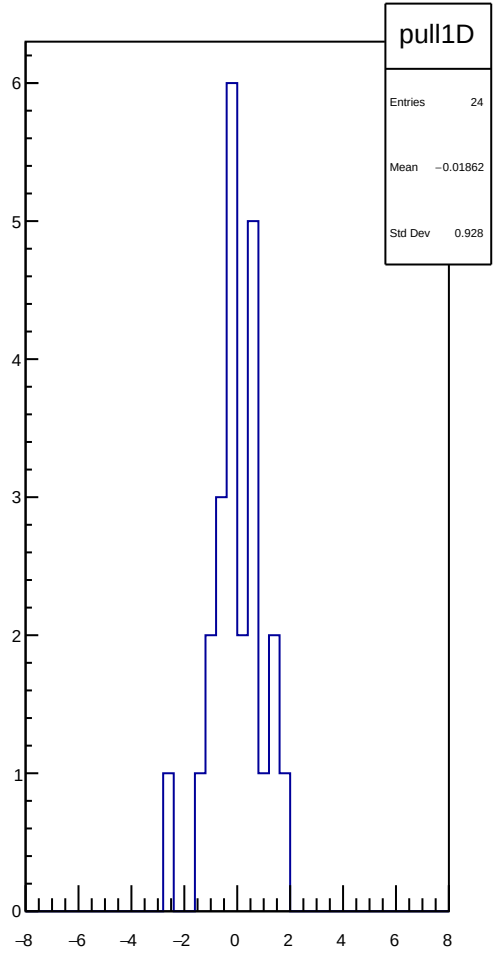

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 17.63 / 23
p0 −2.689e−06 ± 4.4e−06
0.04
0.02
0
−0.02
−0.04
−0.06
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −213.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.01153
Std Dev 0.8569
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

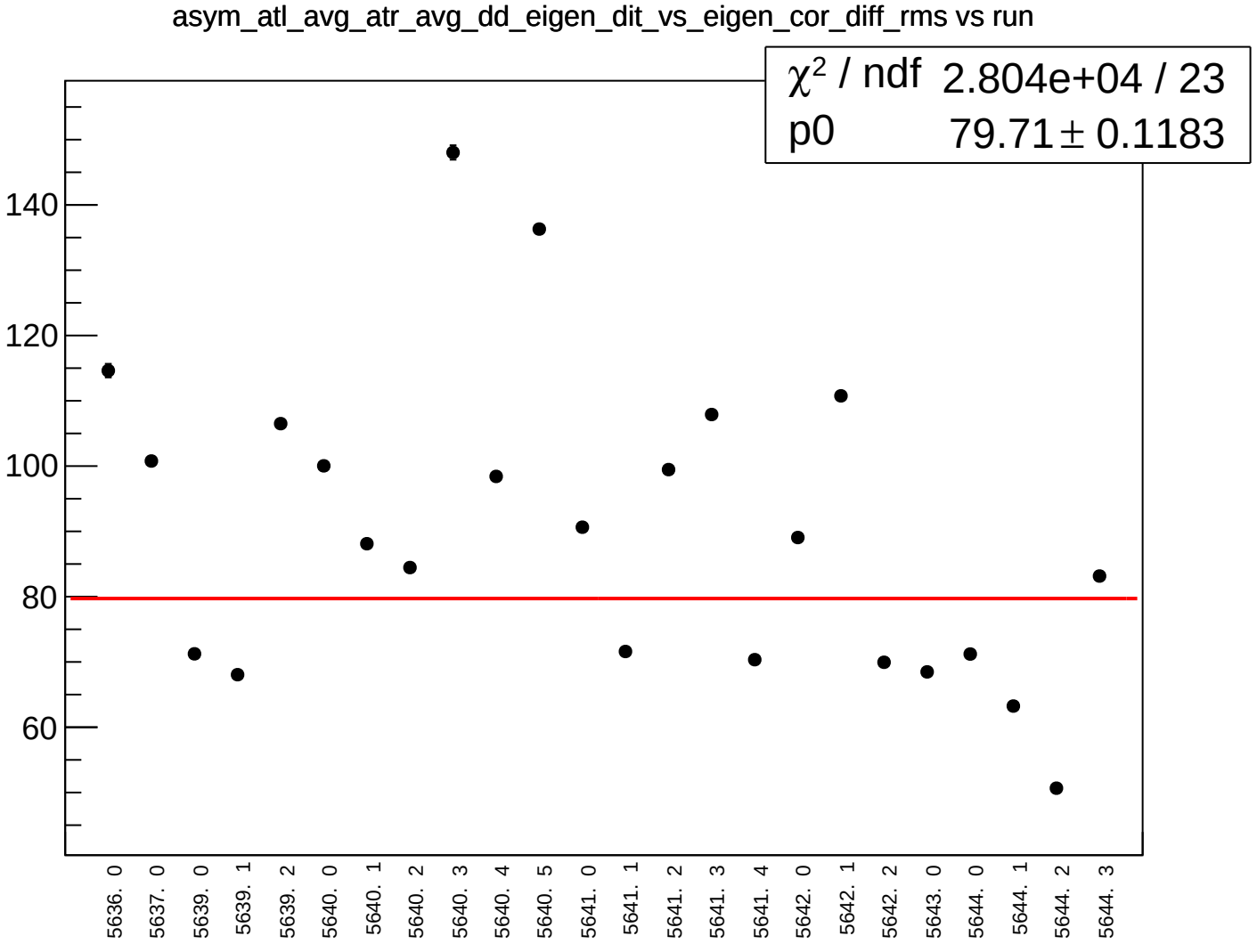

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1255 / 23
p0 0.002158 ± 3.111e−06
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

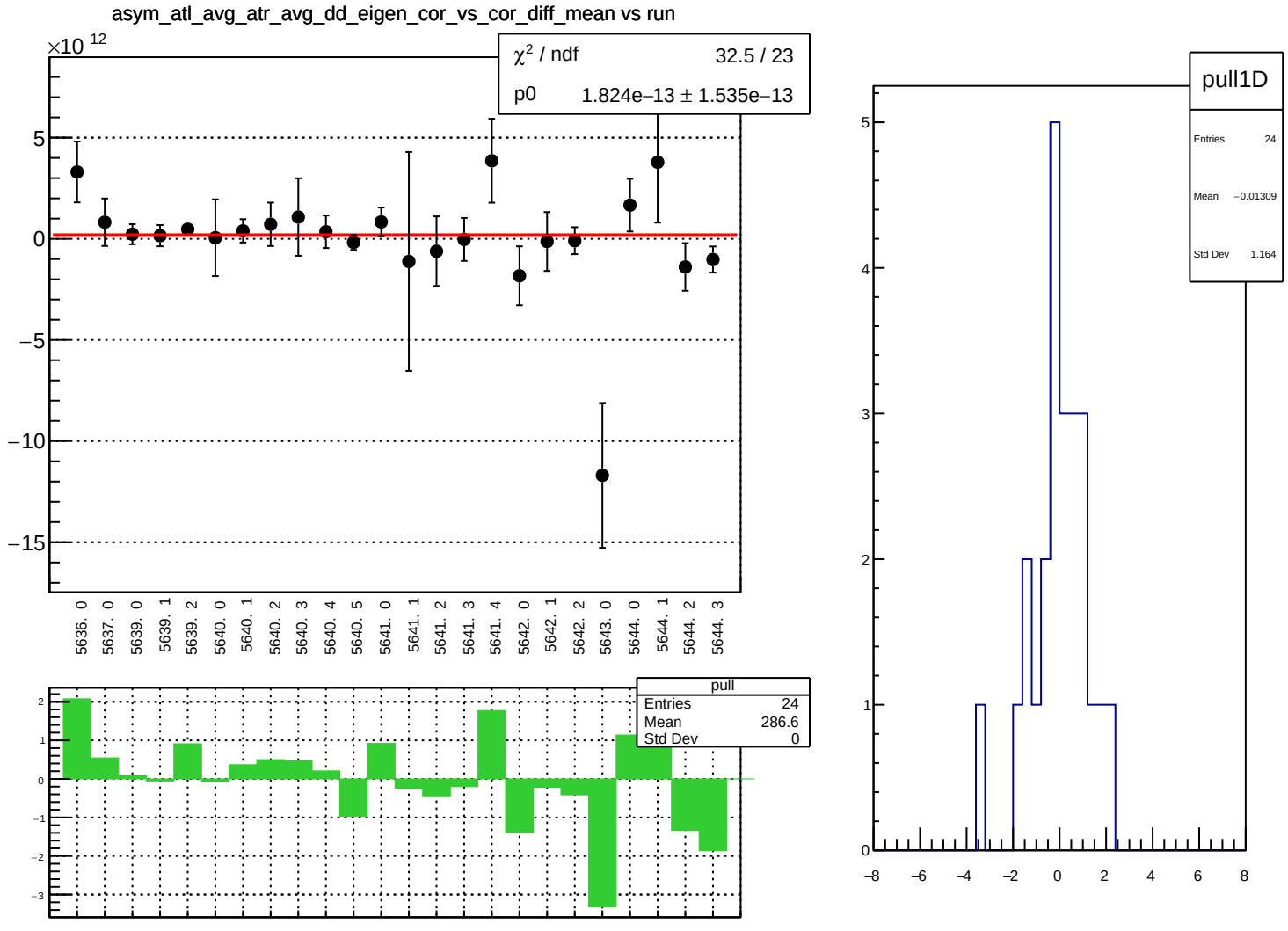

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 20.67 / 23
p0 −0.1062 ± 0.1673
2
1
0
−1
−2
−3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 56.29
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean −0.01862
Std Dev 0.928
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

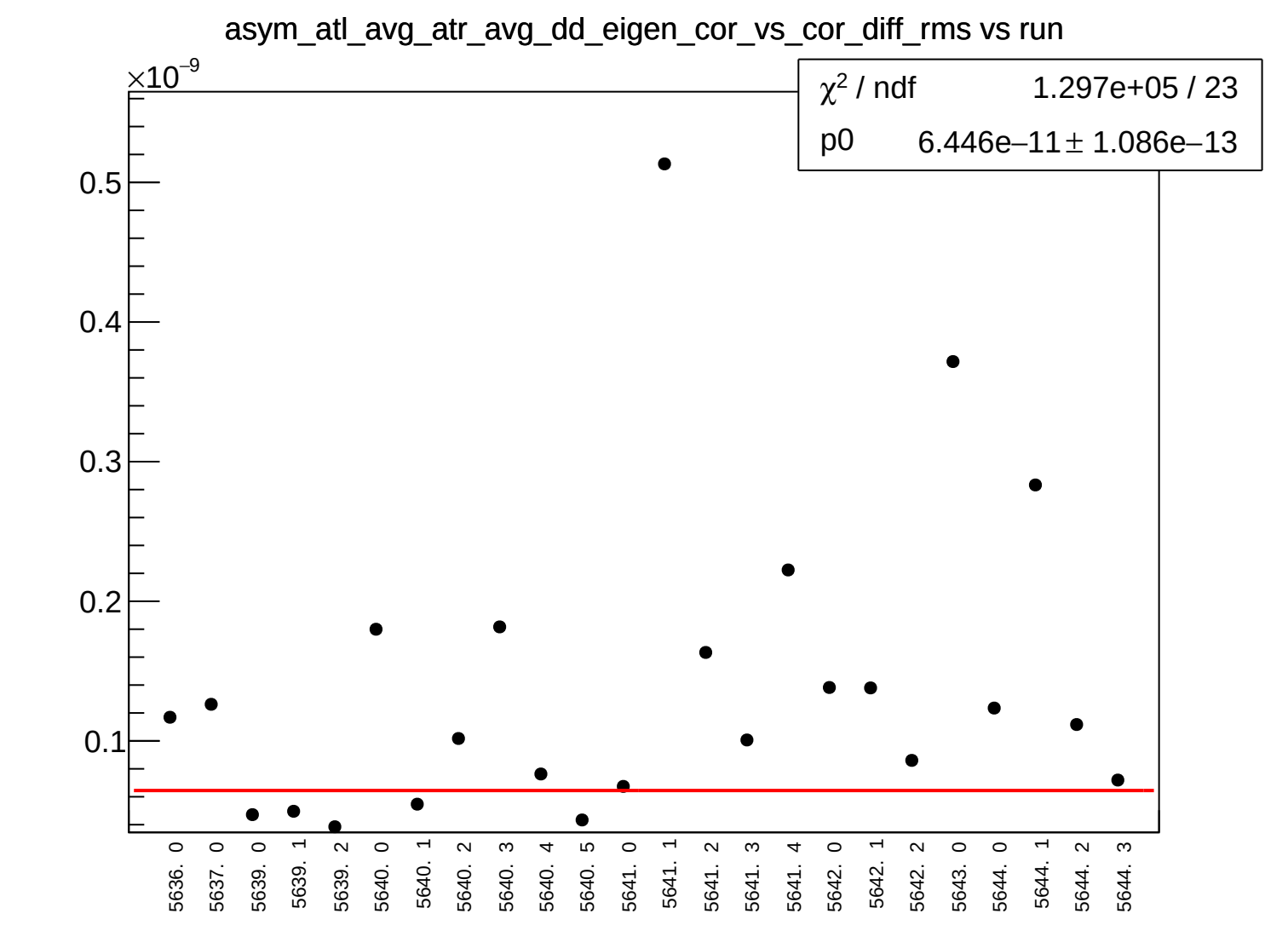

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.804e+04 / 23
p0 79.71 ± 0.1183
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

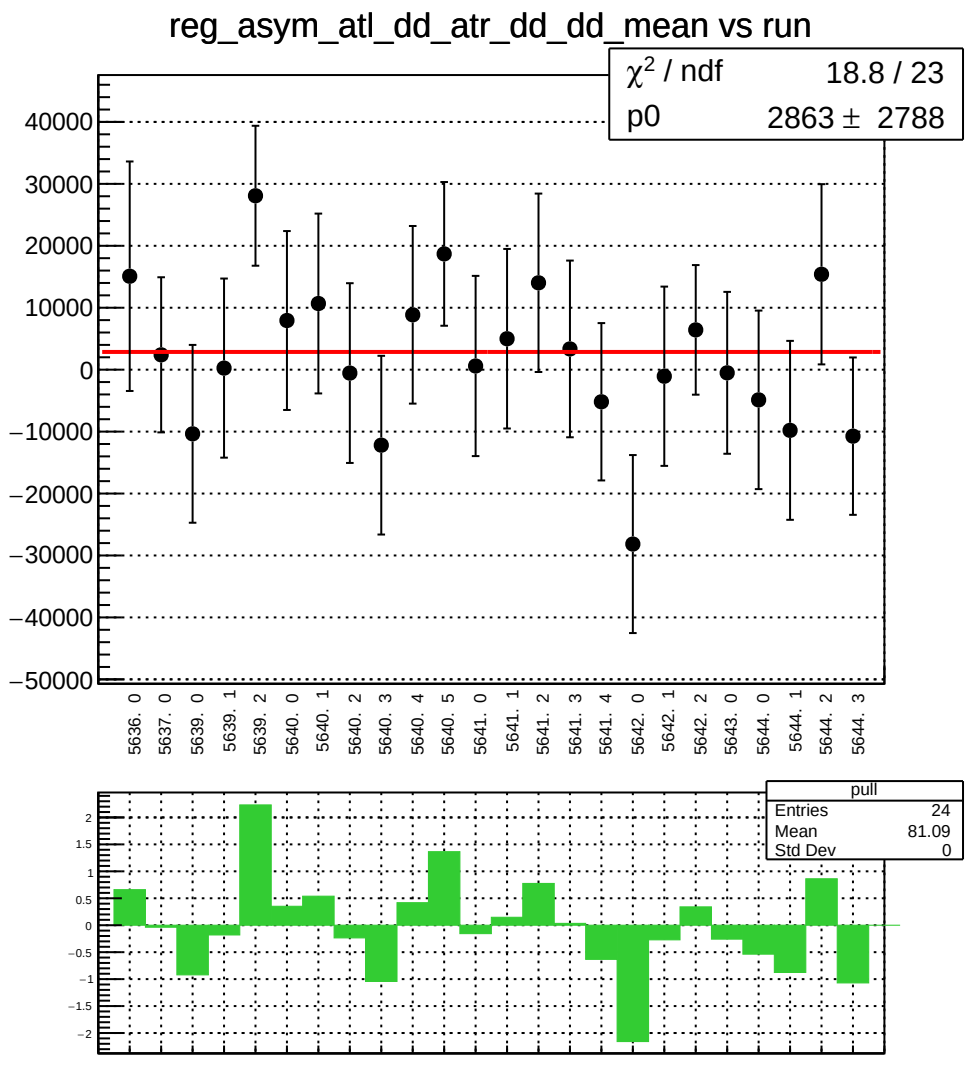

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 20.67 / 23
p0 −0.1062 ± 0.1673
2
1
0
−1
−2
−3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 56.29
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

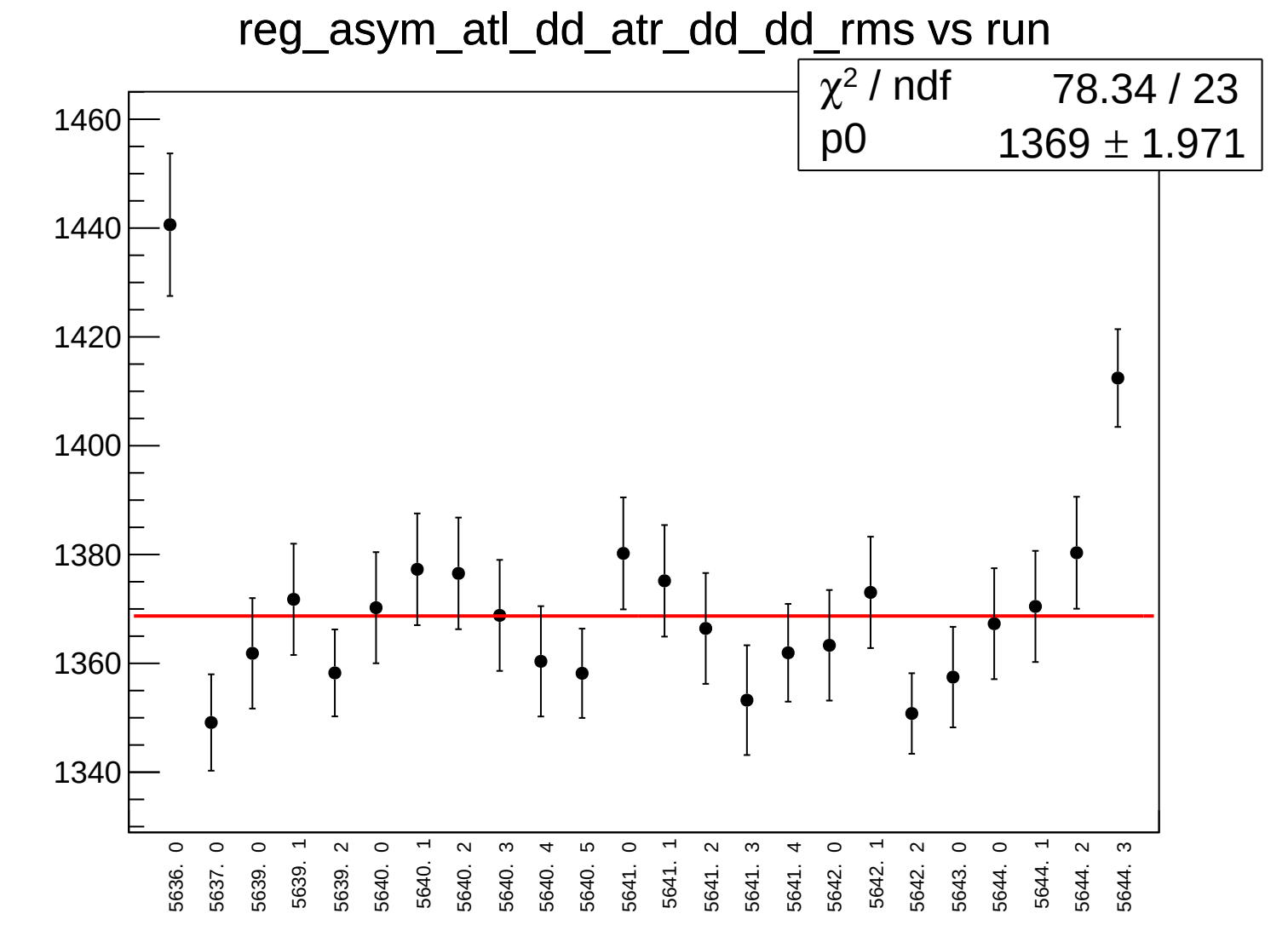

pull1D
Entries 24
Mean −0.01862
Std Dev 0.928
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

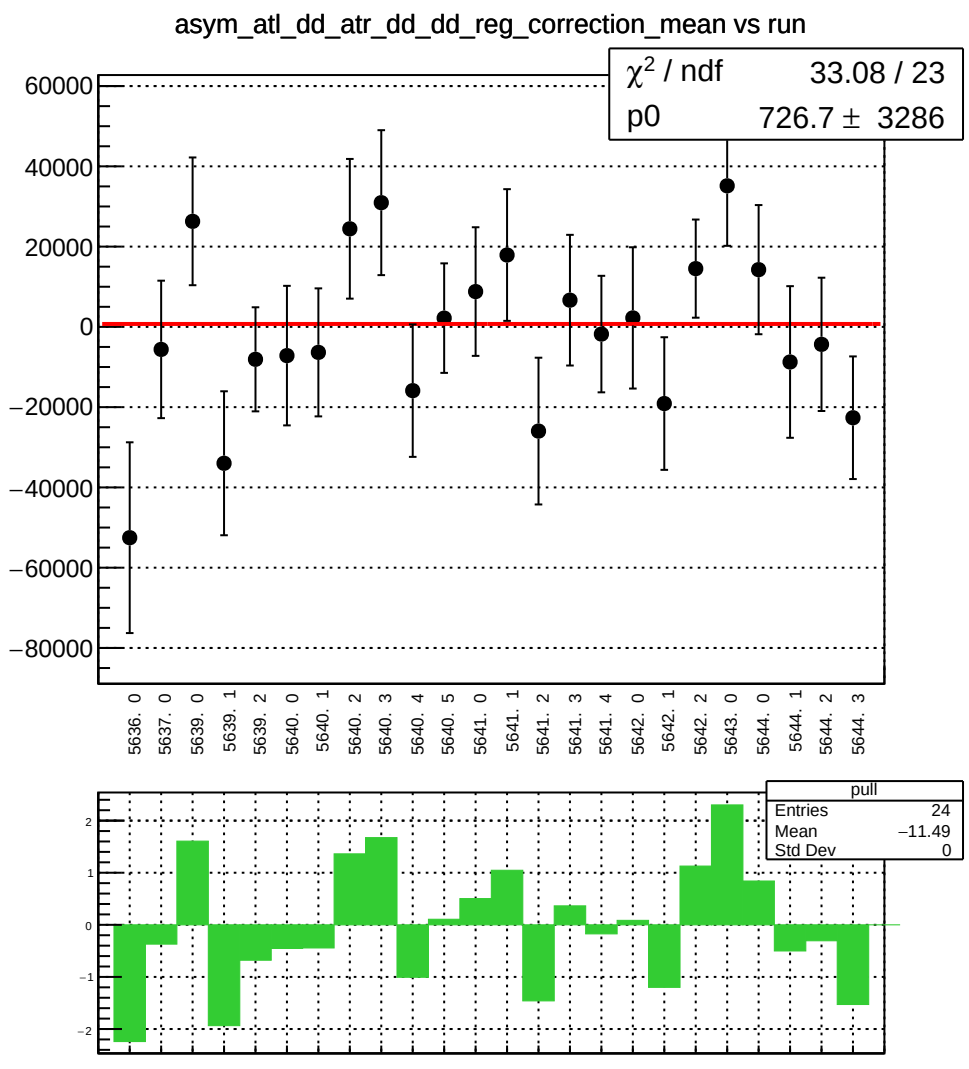

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.804e+04 / 23
p0 79.71 ± 0.1183
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

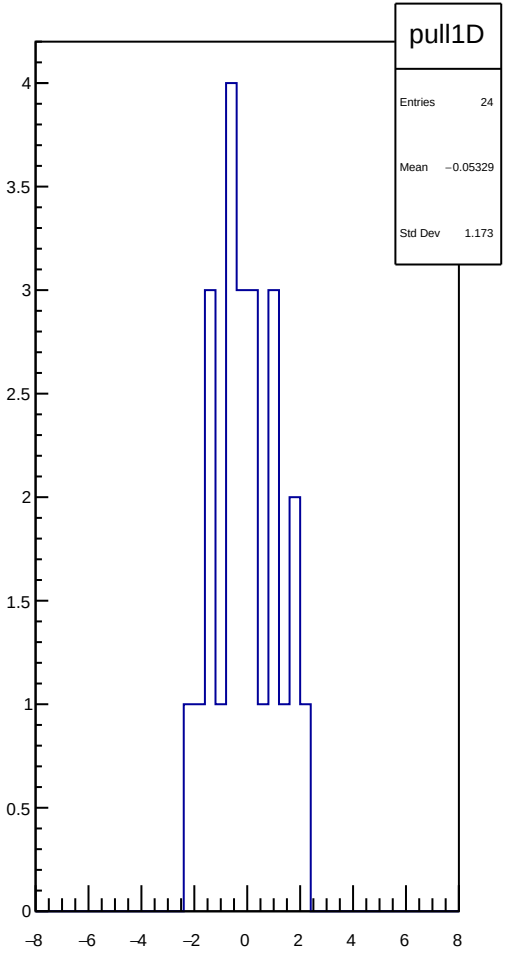

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 32.5 / 23
p0 1.824e−13 ± 1.535e−13
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 286.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean −0.01309
Std Dev 1.164
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

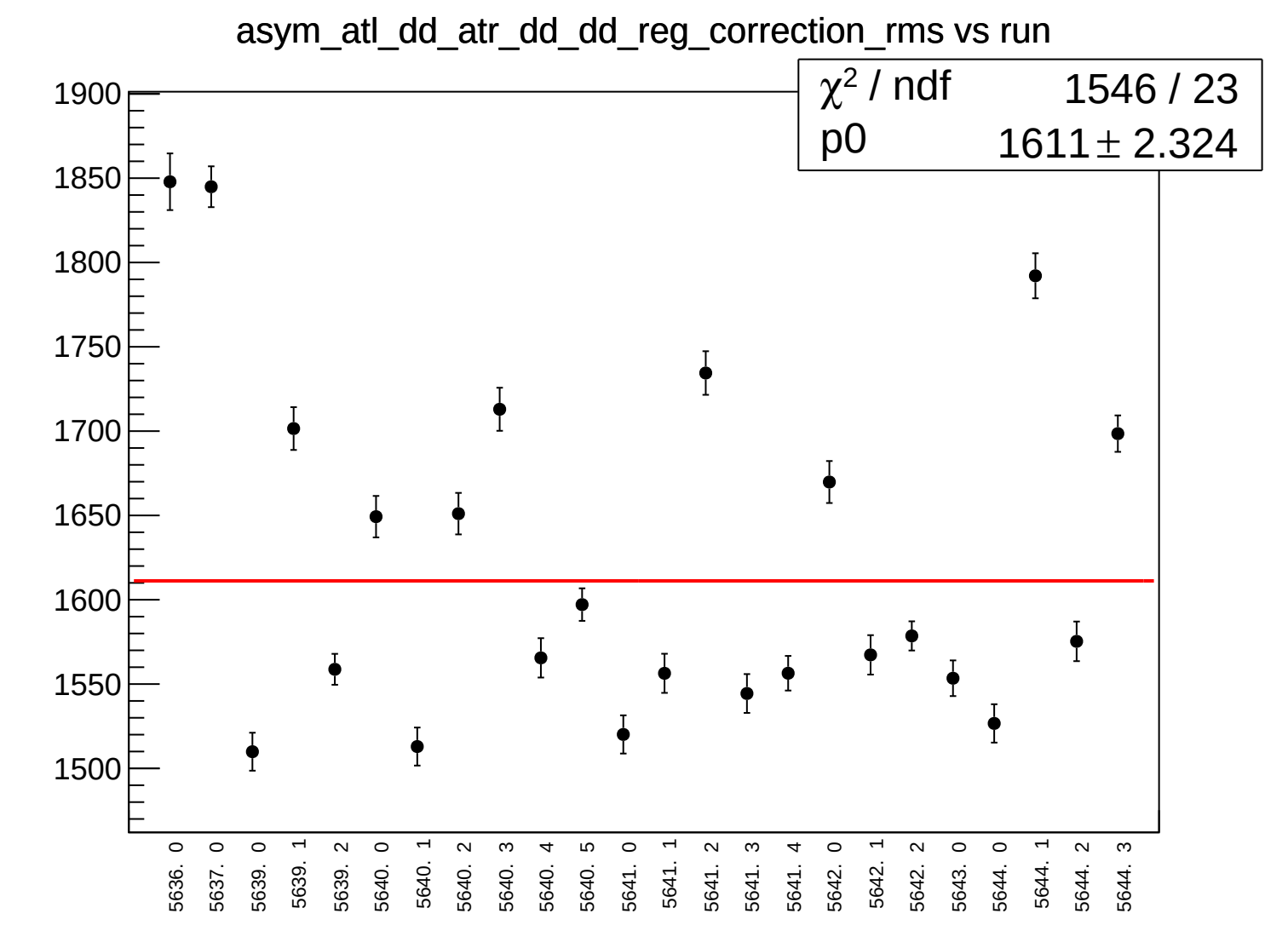

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.297e+05 / 23
p0 6.446e−11 ± 1.086e−13
0.5
0.4
0.3
0.2
0.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

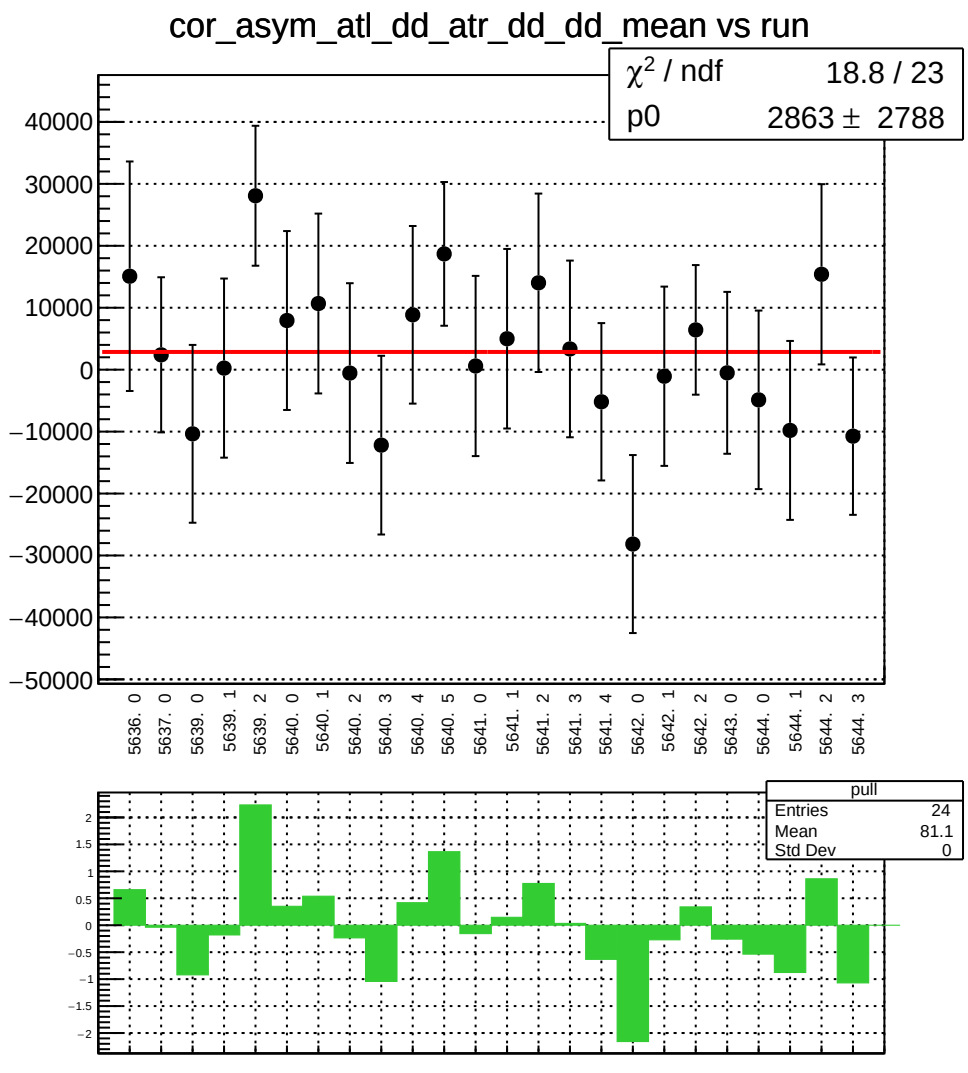

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 18.8 / 23
p0 2863 ± 2788
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 81.09
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.02724
Std Dev 0.8847
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

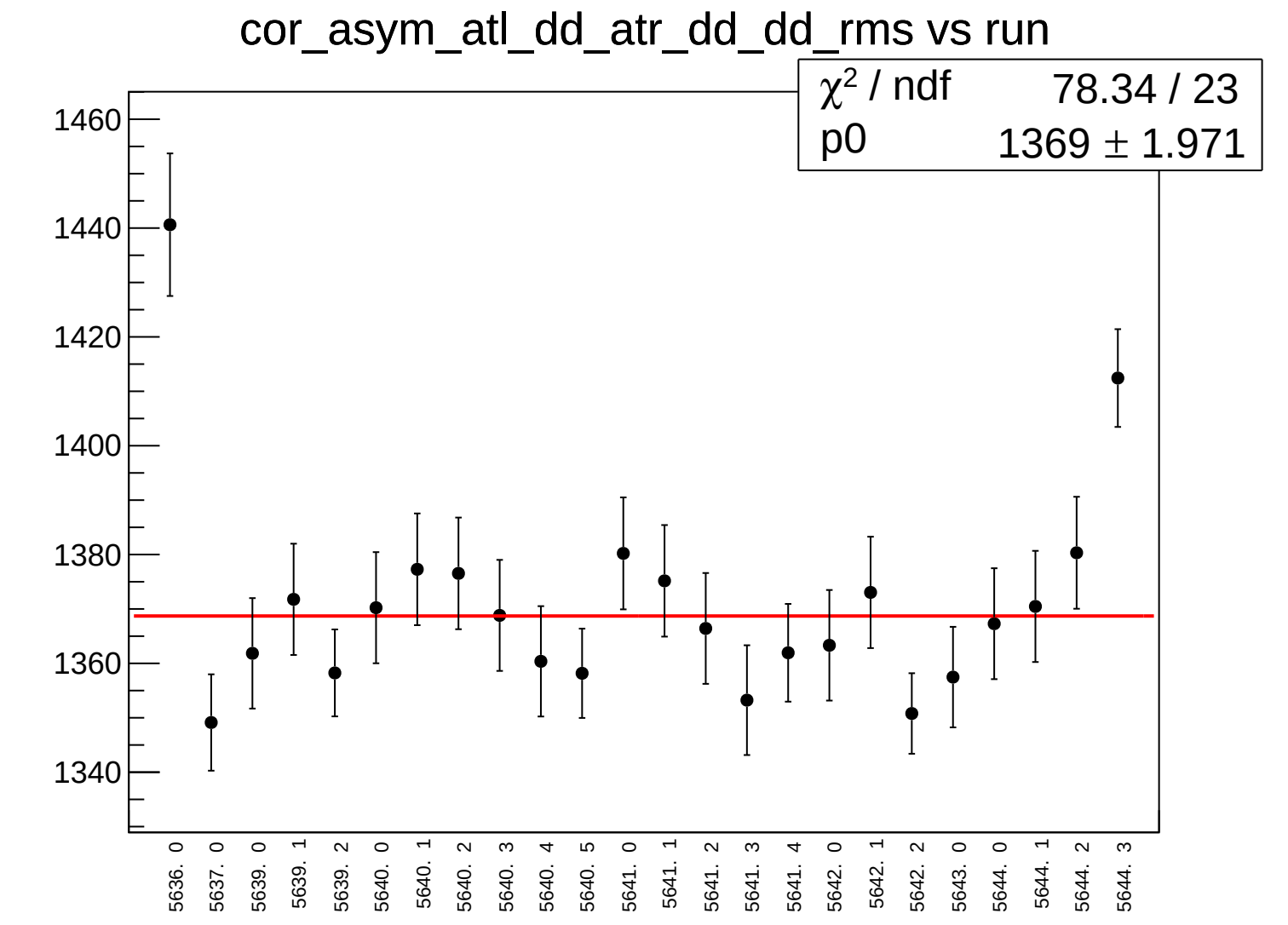

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 78.34 / 23
p0 1369 ± 1.971
1460
1440
1420
1400
1380
1360
1340
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

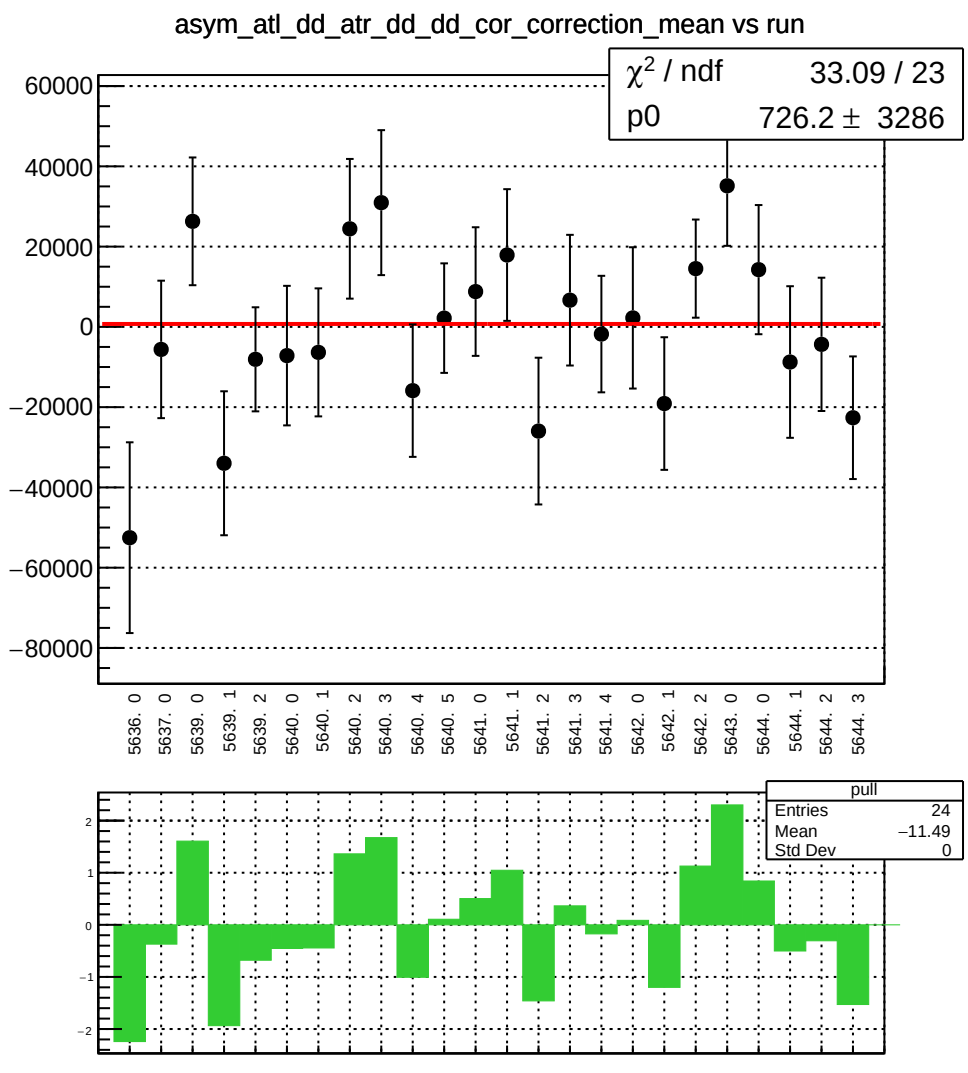

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 33.08 / 23
p0 726.7 ± 3286
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −11.49
Std Dev 0
2
1
0
−1
−2

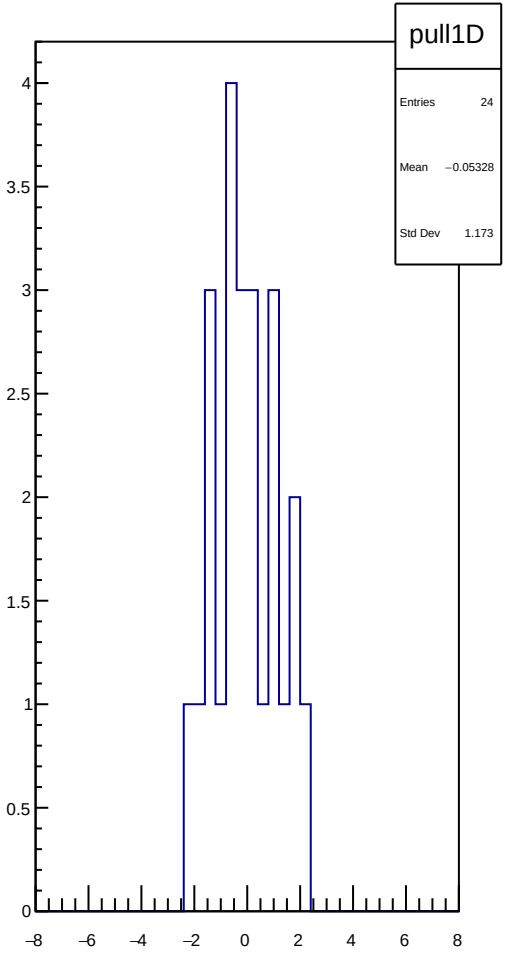

pull1D
Entries 24
Mean −0.05329
Std Dev 1.173
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

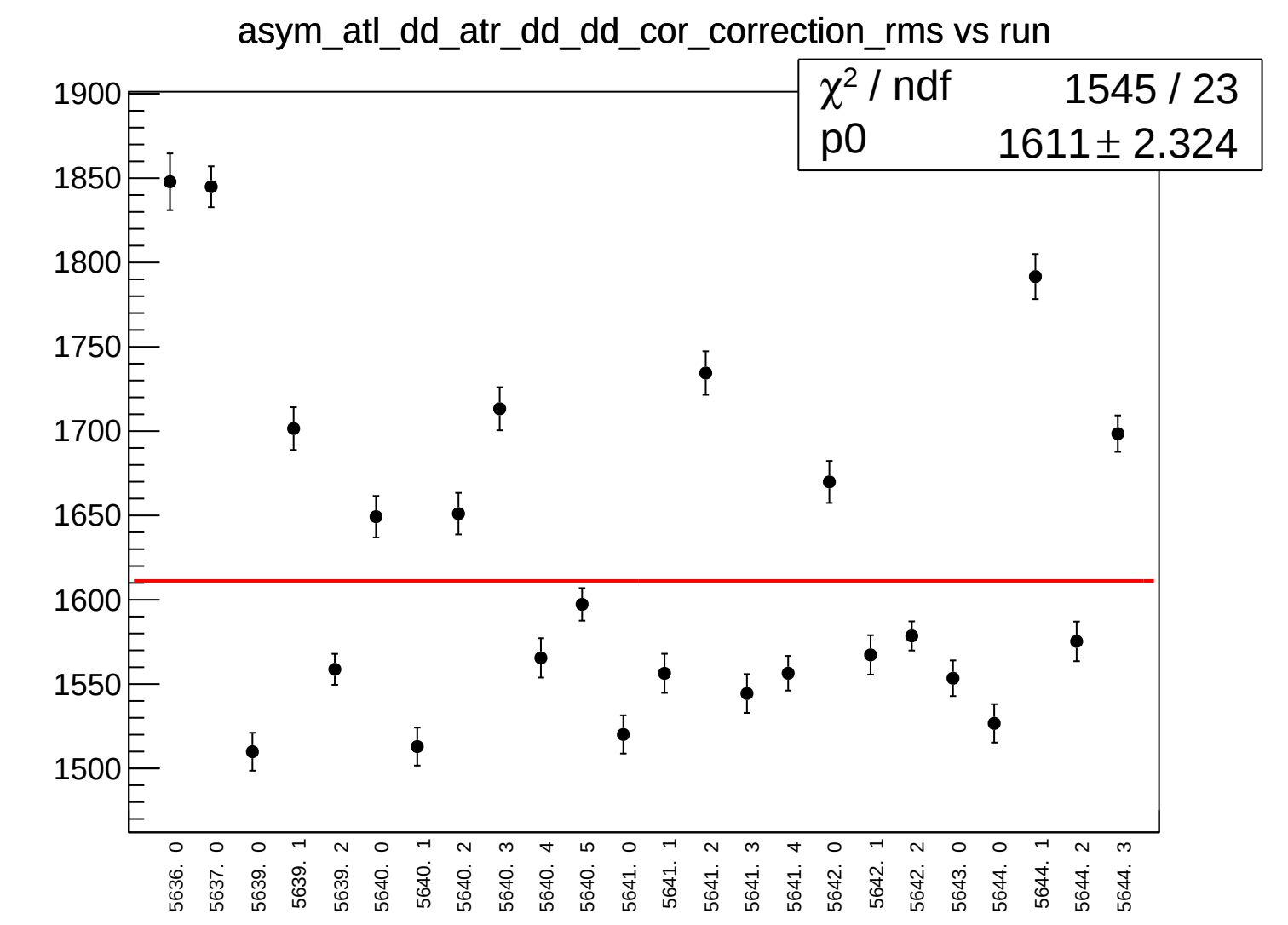

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 1546 / 23
p0 1611 ± 2.324
1900
1850
1800
1750
1700
1650
1600
1550
1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

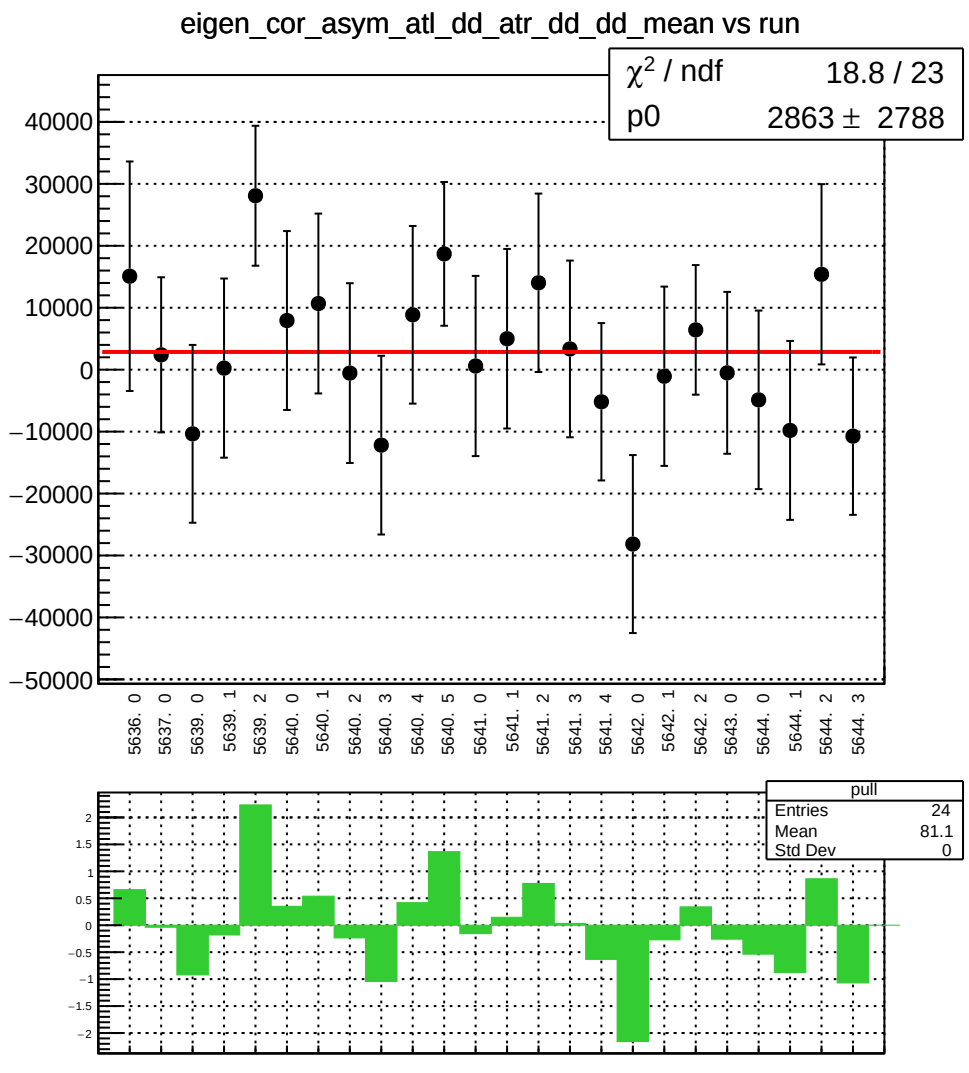

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 18.8 / 23
p0 2863 ± 2788
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 81.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.02724
Std Dev 0.8847
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

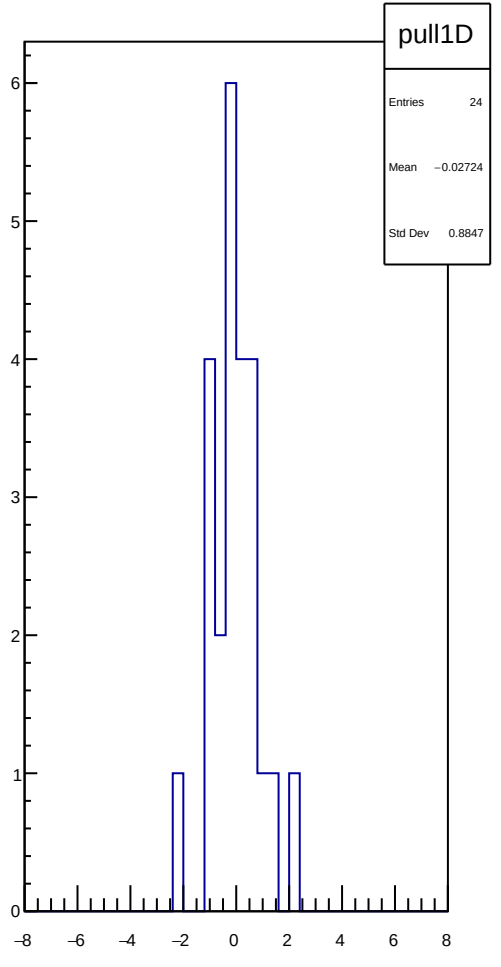

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 78.34 / 23
p0 1369 ± 1.971
1460
1440
1420
1400
1380
1360
1340
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

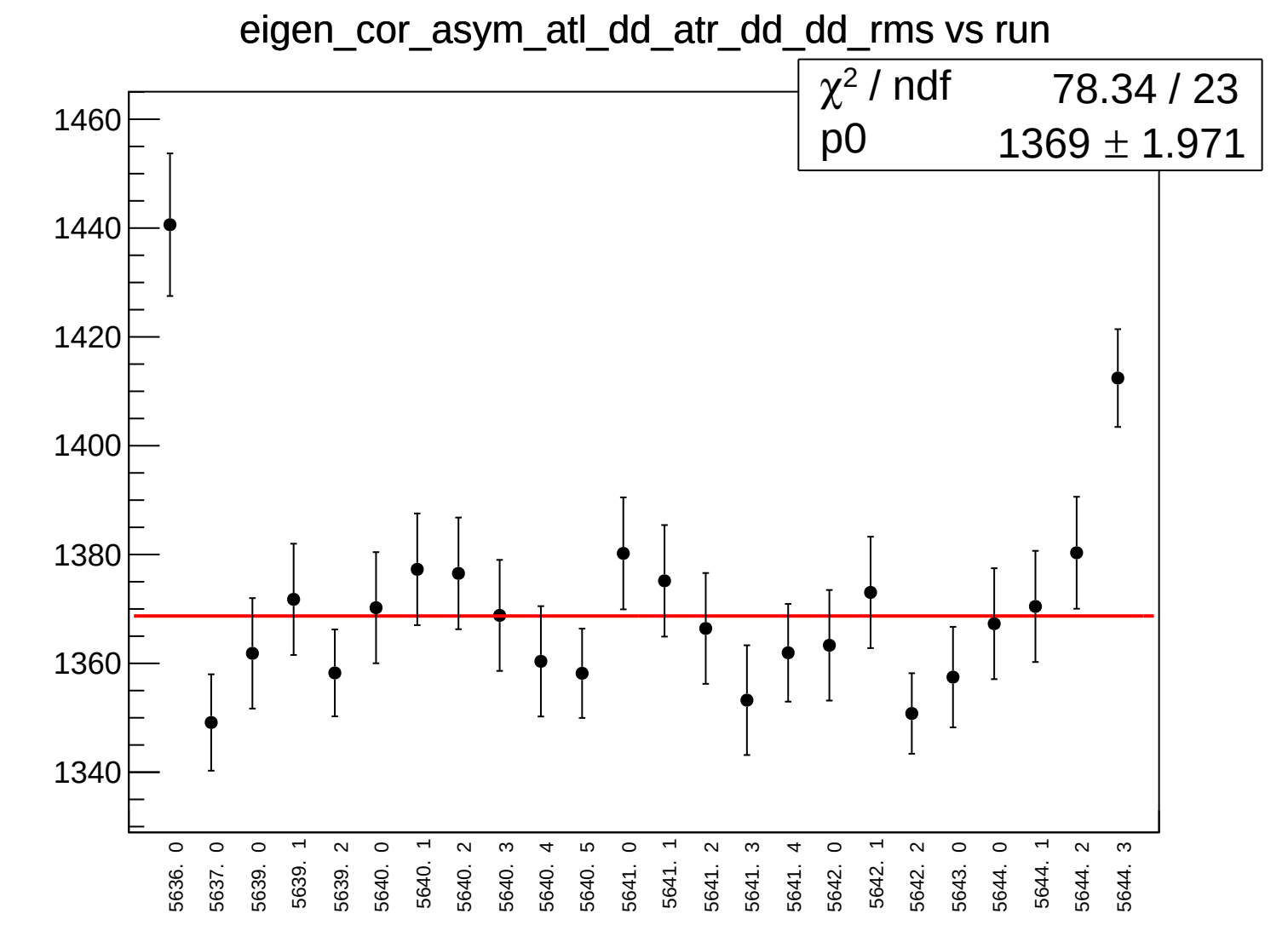

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 33.09 / 23
p0 726.2 ± 3286
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −11.49
Std Dev 0
2
1
0
−1
−2

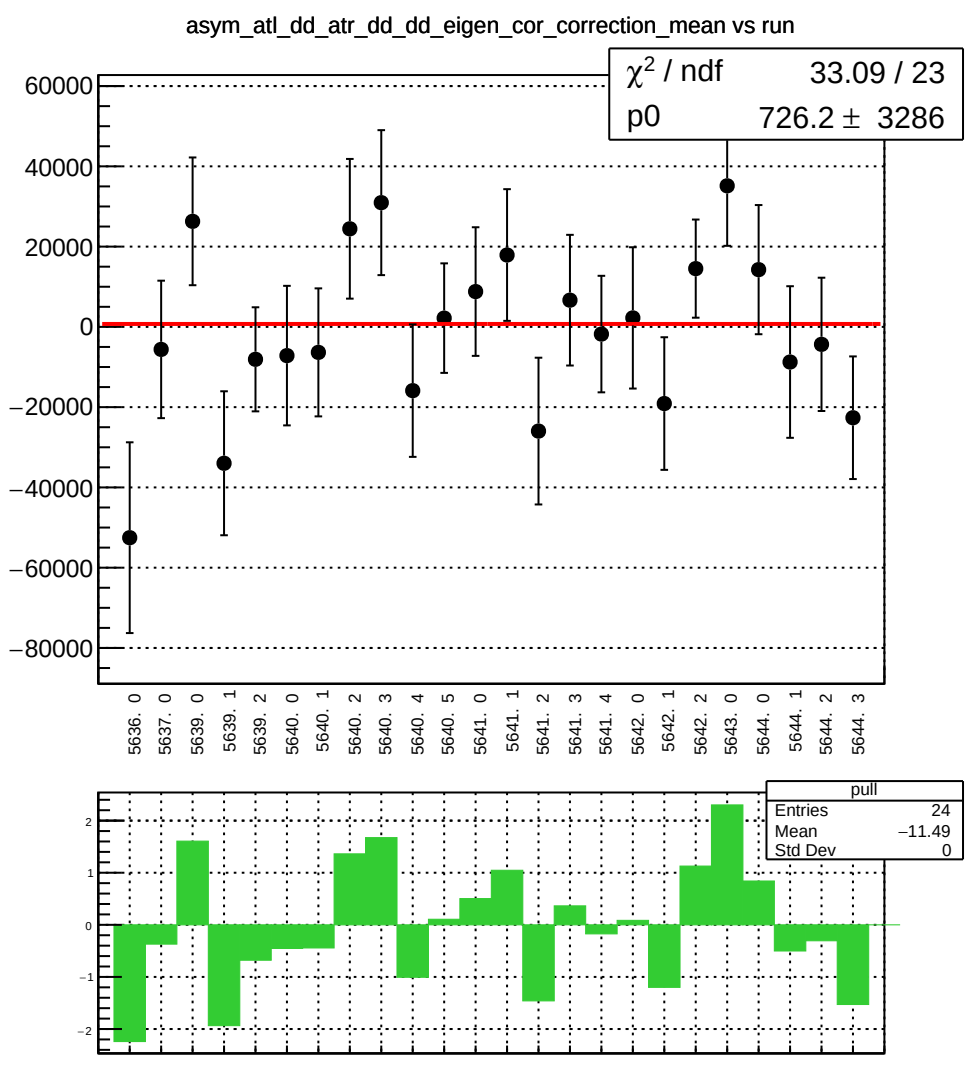

pull1D
Entries 24
Mean −0.05328
Std Dev 1.173
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

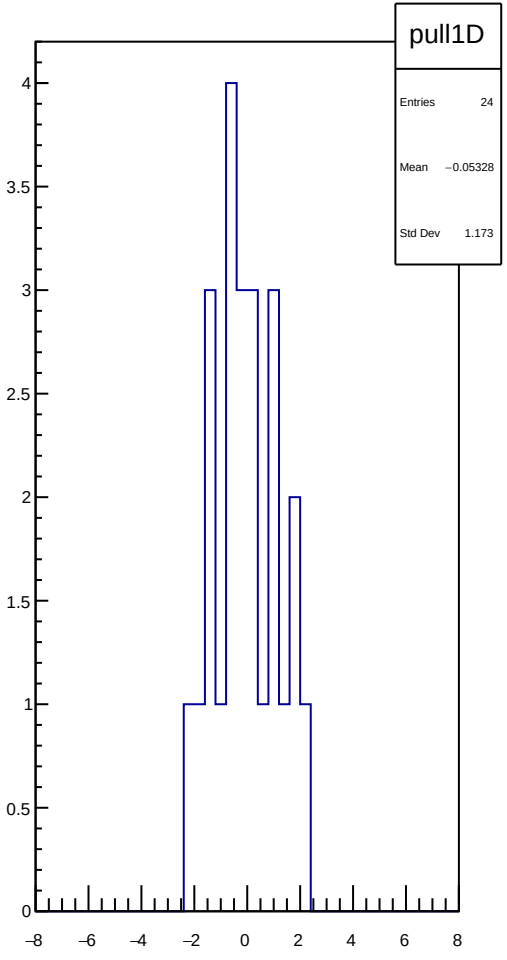

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 1545 / 23
p0 1611 ± 2.324
1900
1850
1800
1750
1700
1650
1600
1550
1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

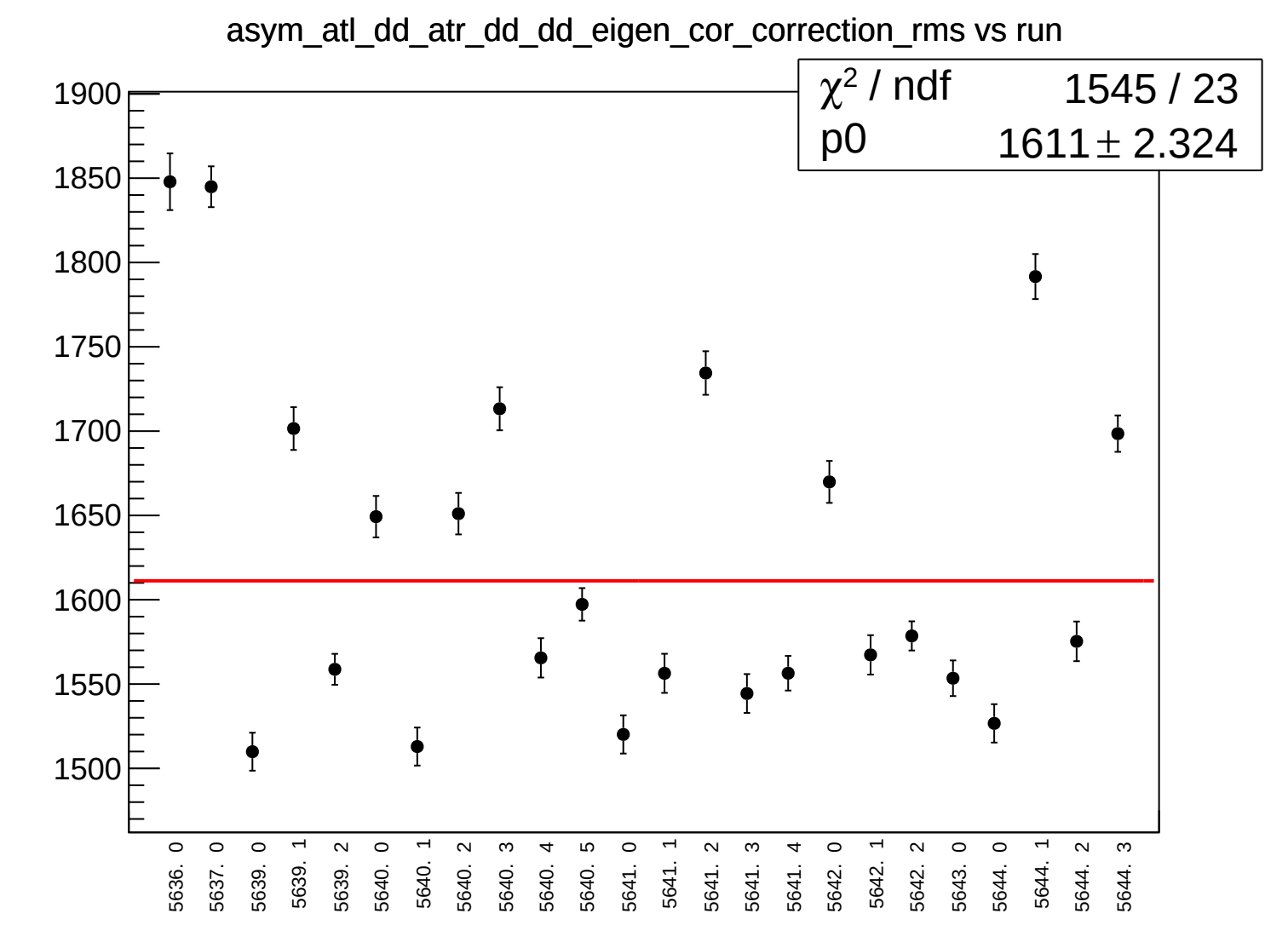

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 18.8 / 23
p0 2863 ± 2788
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 81.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

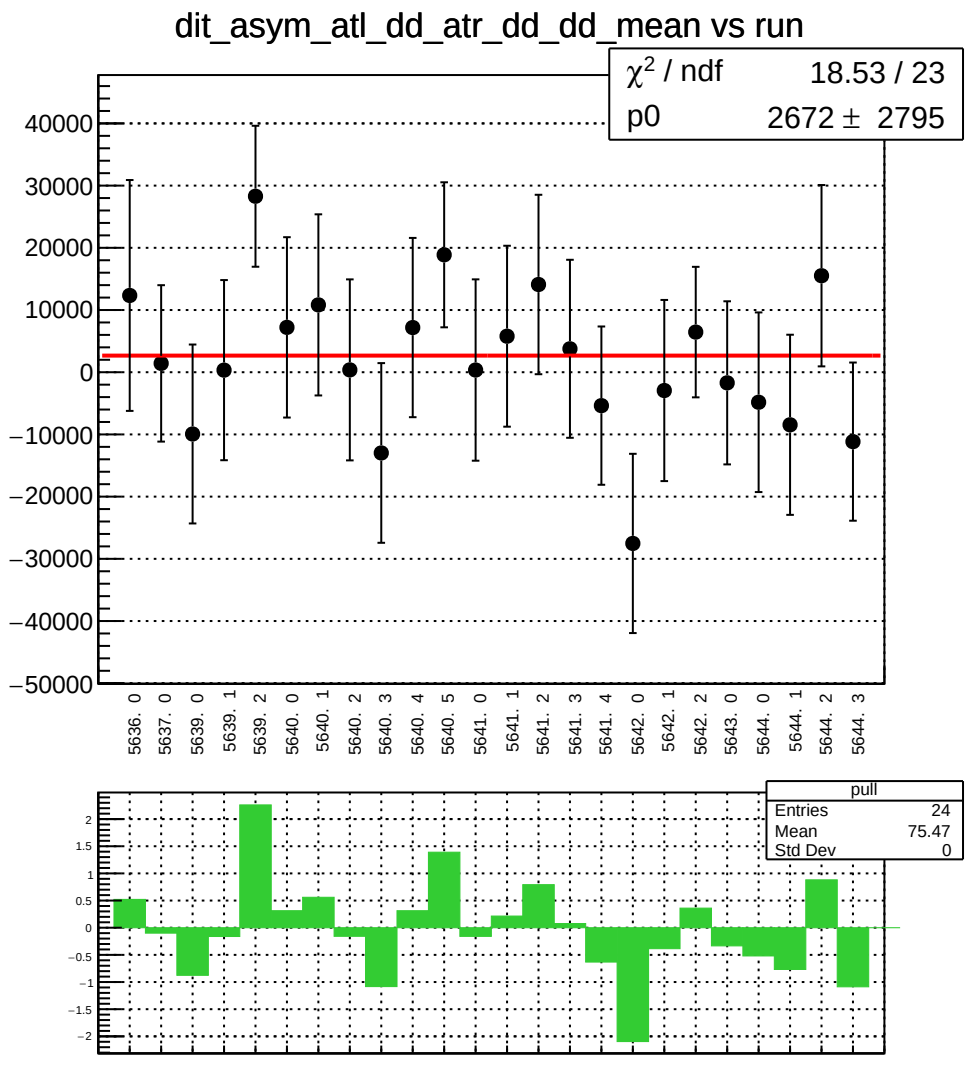

pull1D
Entries 24
Mean −0.02724
Std Dev 0.8847
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

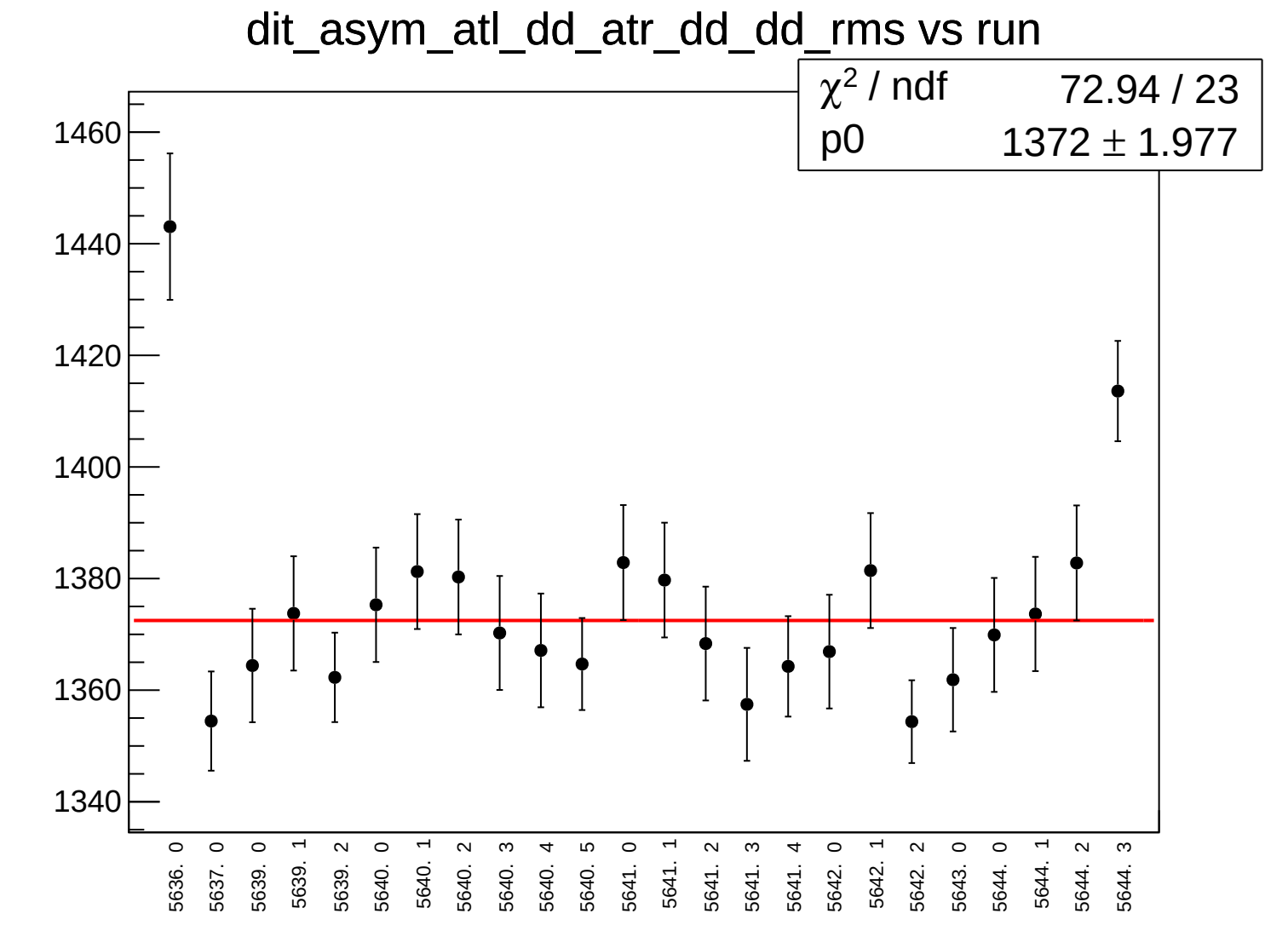

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 78.34 / 23
p0 1369 ± 1.971
1460
1440
1420
1400
1380
1360
1340
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

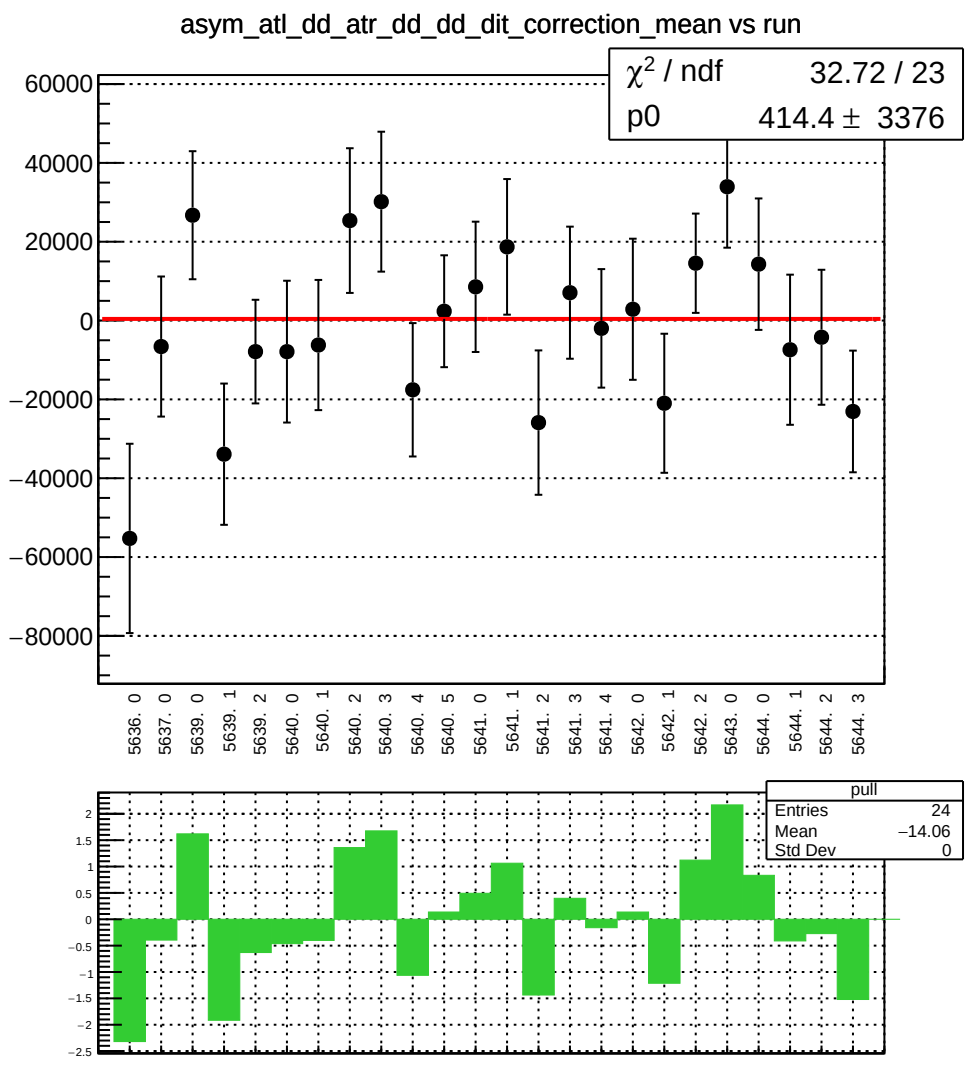

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 33.09 / 23
p0 726.2 ± 3286
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −11.49
Std Dev 0
2
1
0
−1
−2

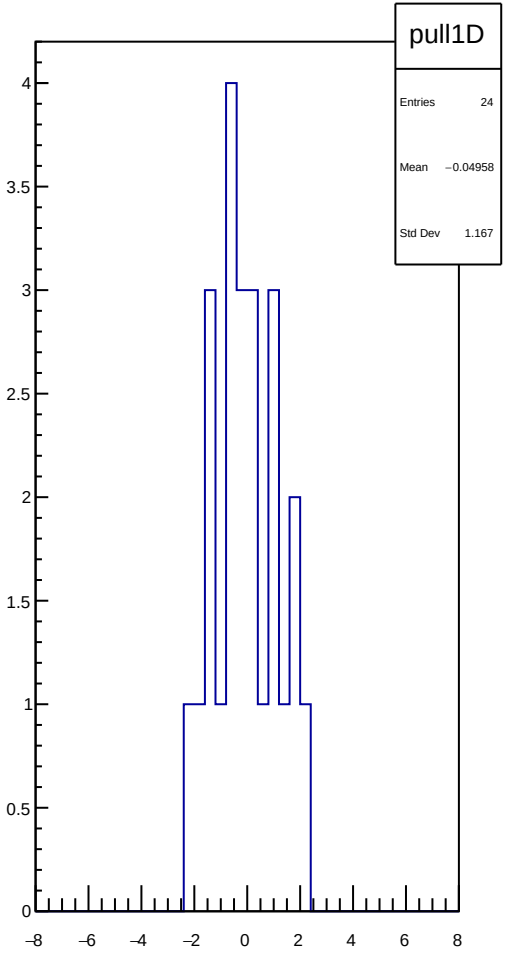

pull1D
Entries 24
Mean −0.05328
Std Dev 1.173
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

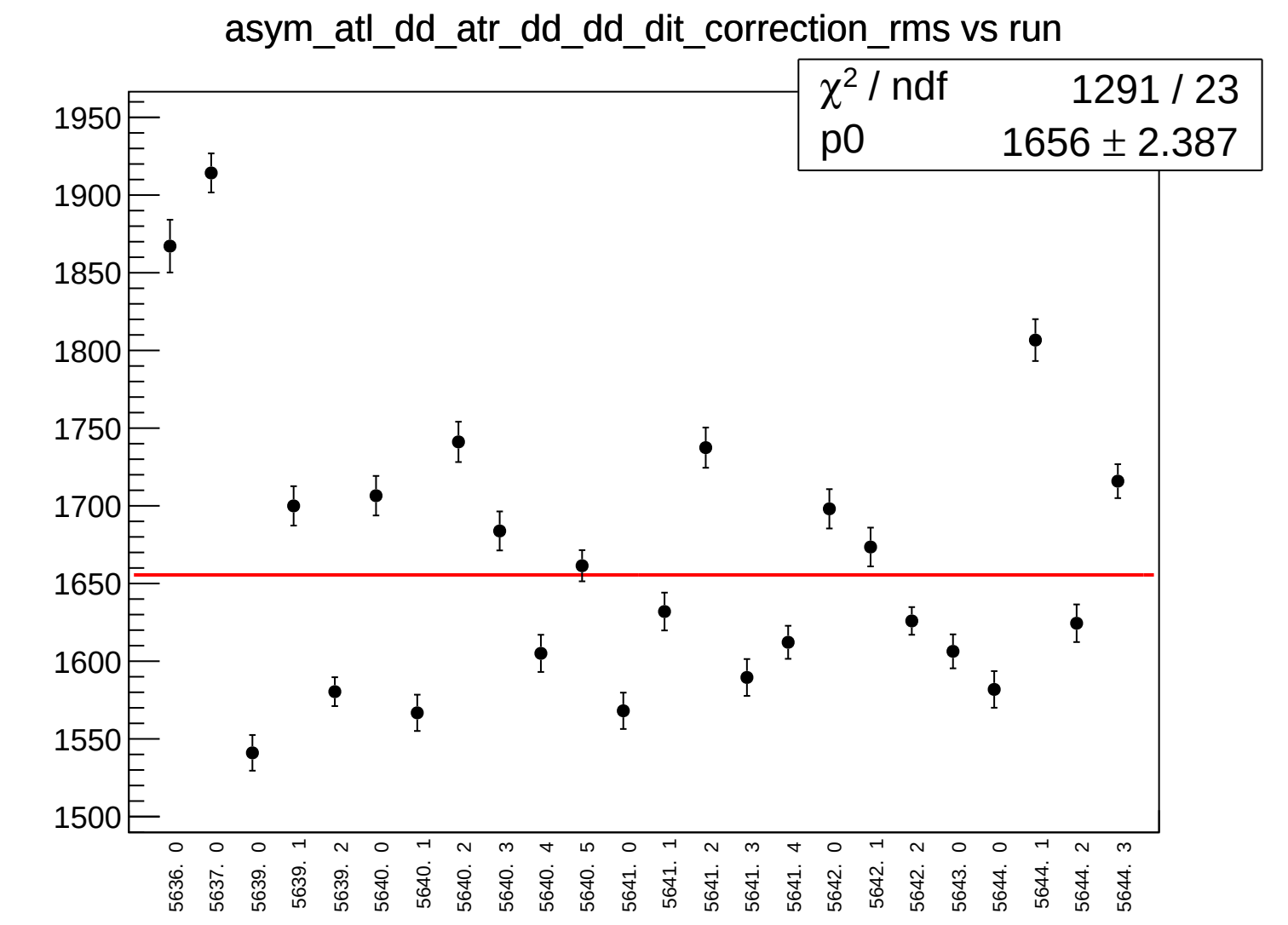

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1545 / 23
p0 1611 ± 2.324
1900
1850
1800
1750
1700
1650
1600
1550
1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

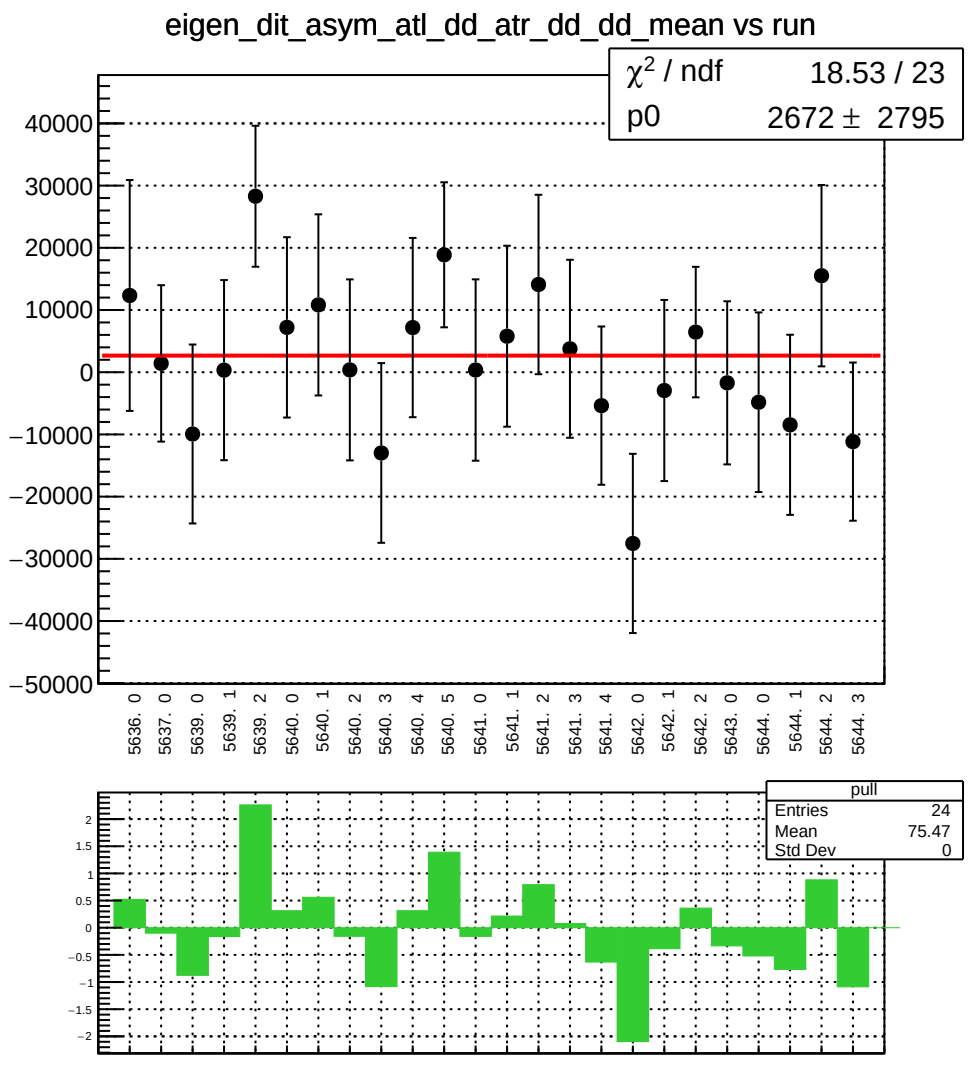

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 18.53 / 23
p0 2672 ± 2795
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 75.47
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.02824
Std Dev 0.8783
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

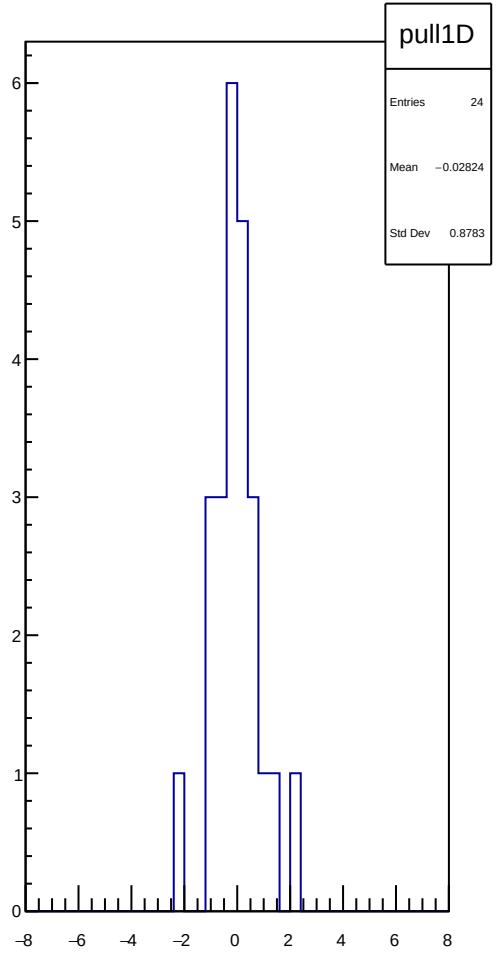

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 72.94 / 23
p0 1372 ± 1.977
1460
1440
1420
1400
1380
1360
1340
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

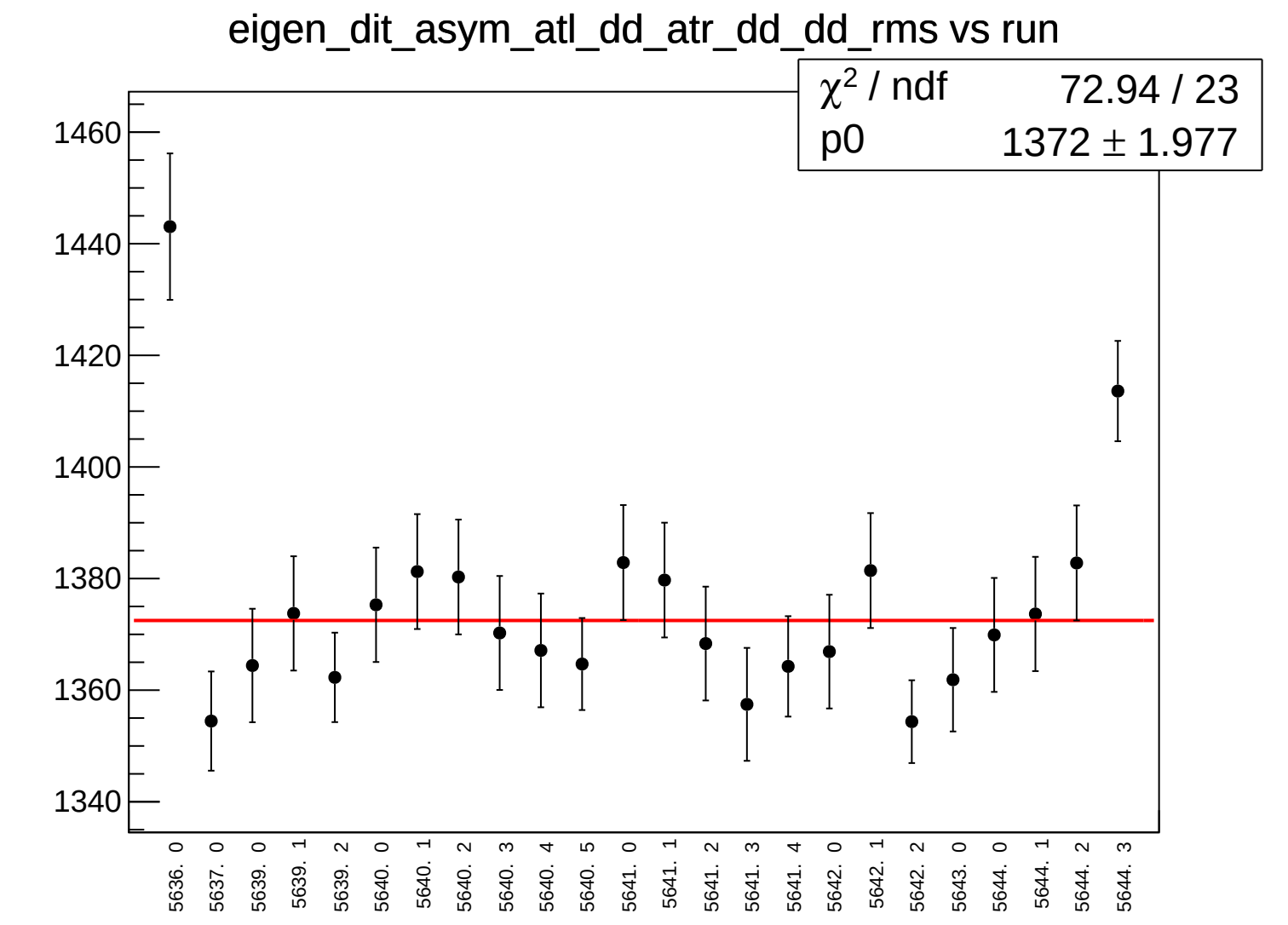

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 32.72 / 23
p0 414.4 ± 3376
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −14.06
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

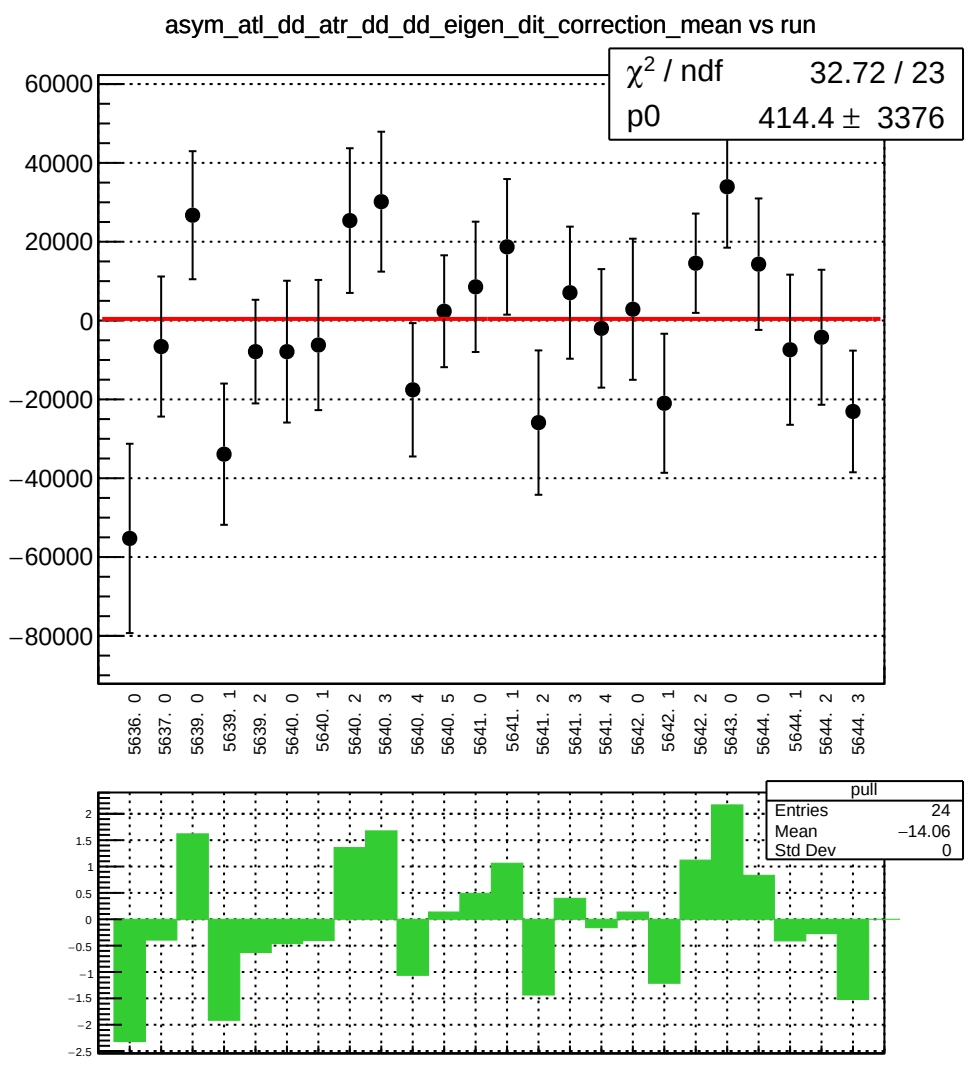

pull1D
Entries 24
Mean −0.04958
Std Dev 1.167
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

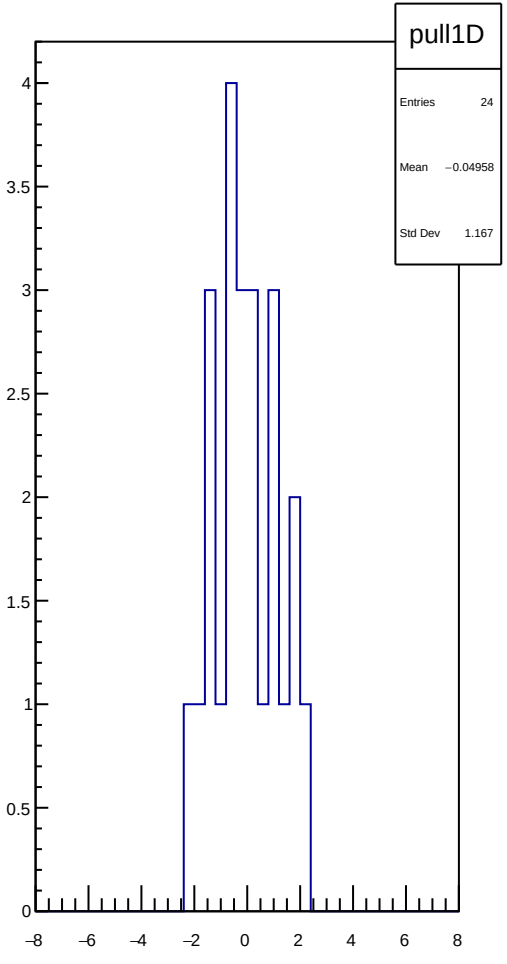

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 1291 / 23
p0 1656 ± 2.387
1950
1900
1850
1800
1750
1700
1650
1600
1550
1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

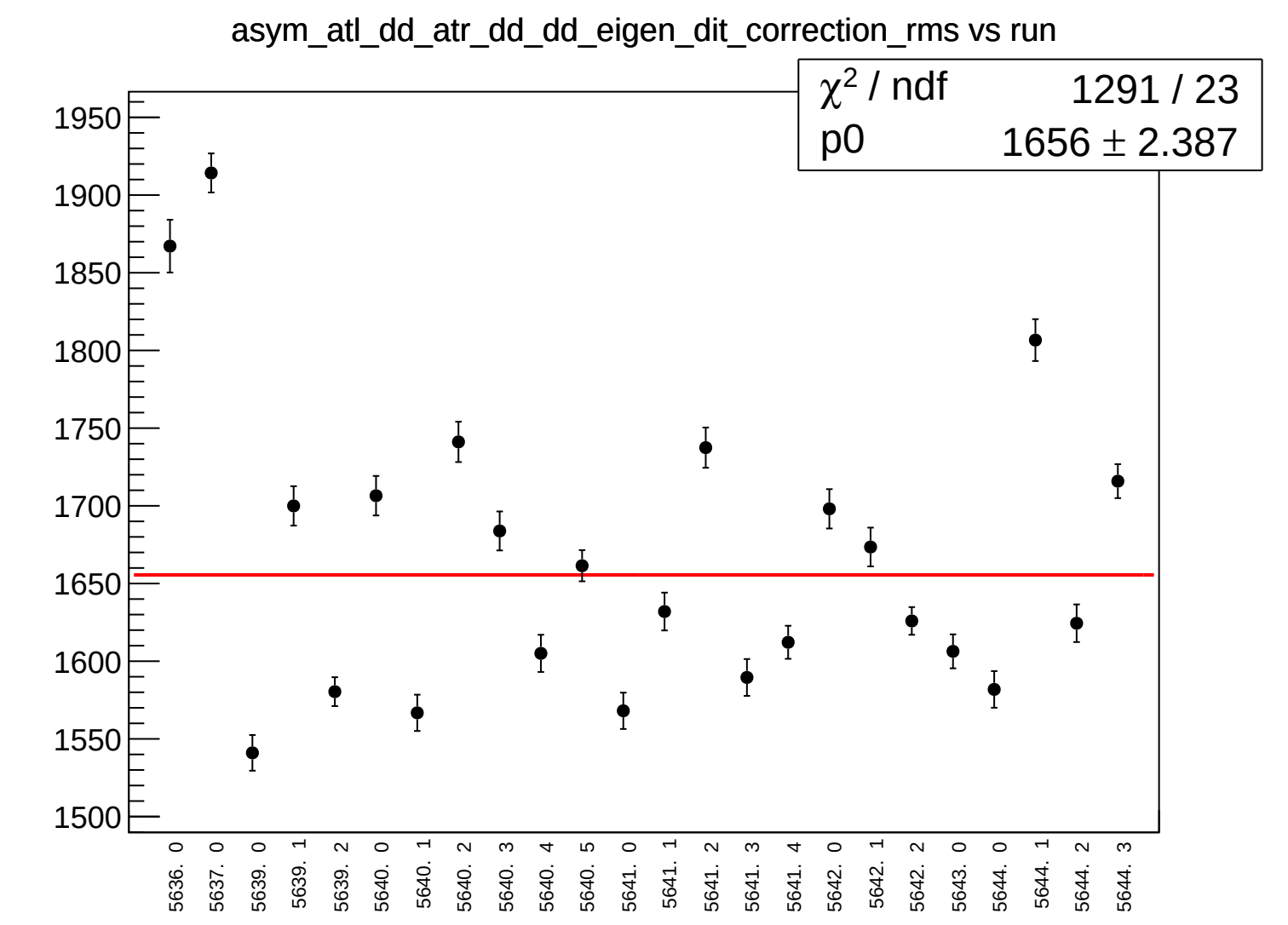

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 18.53 / 23
p0 2672 ± 2795
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 75.47
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

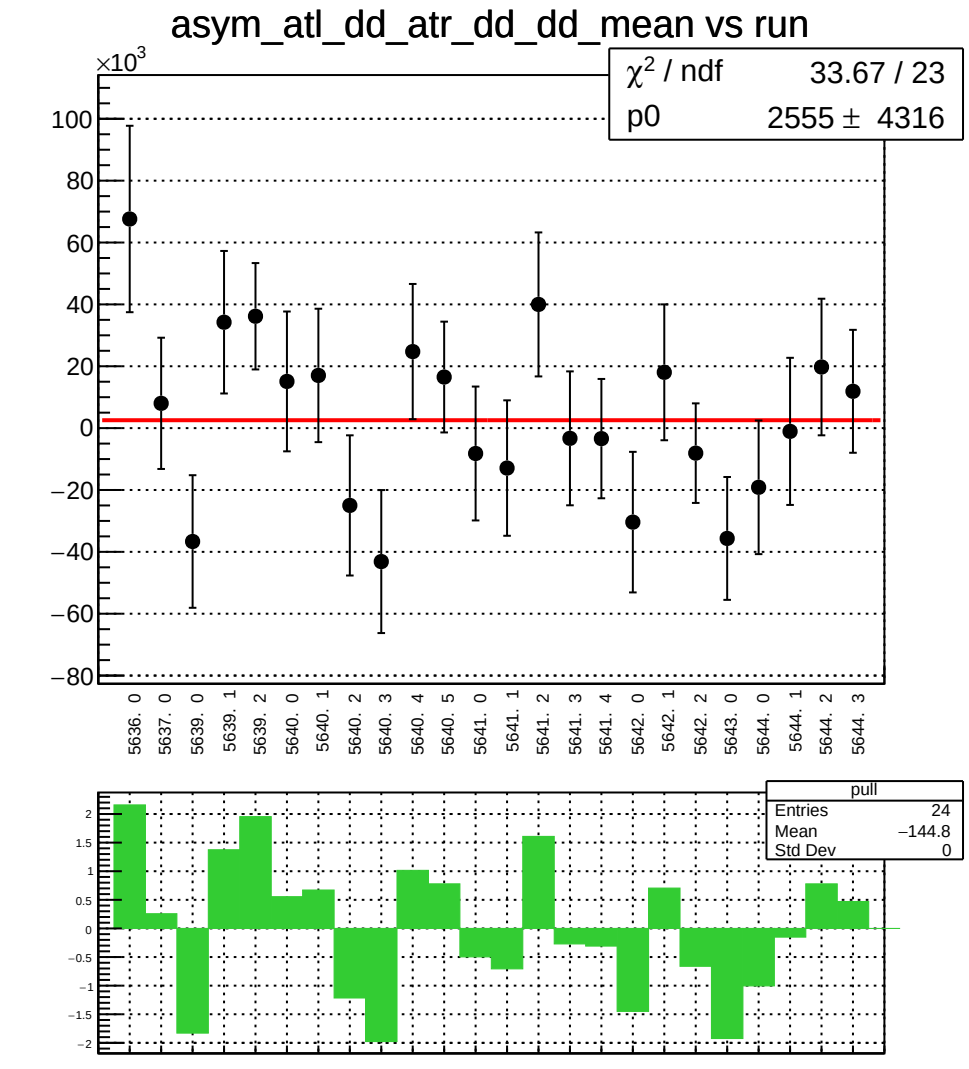

pull1D
Entries 24
Mean −0.02824
Std Dev 0.8783
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

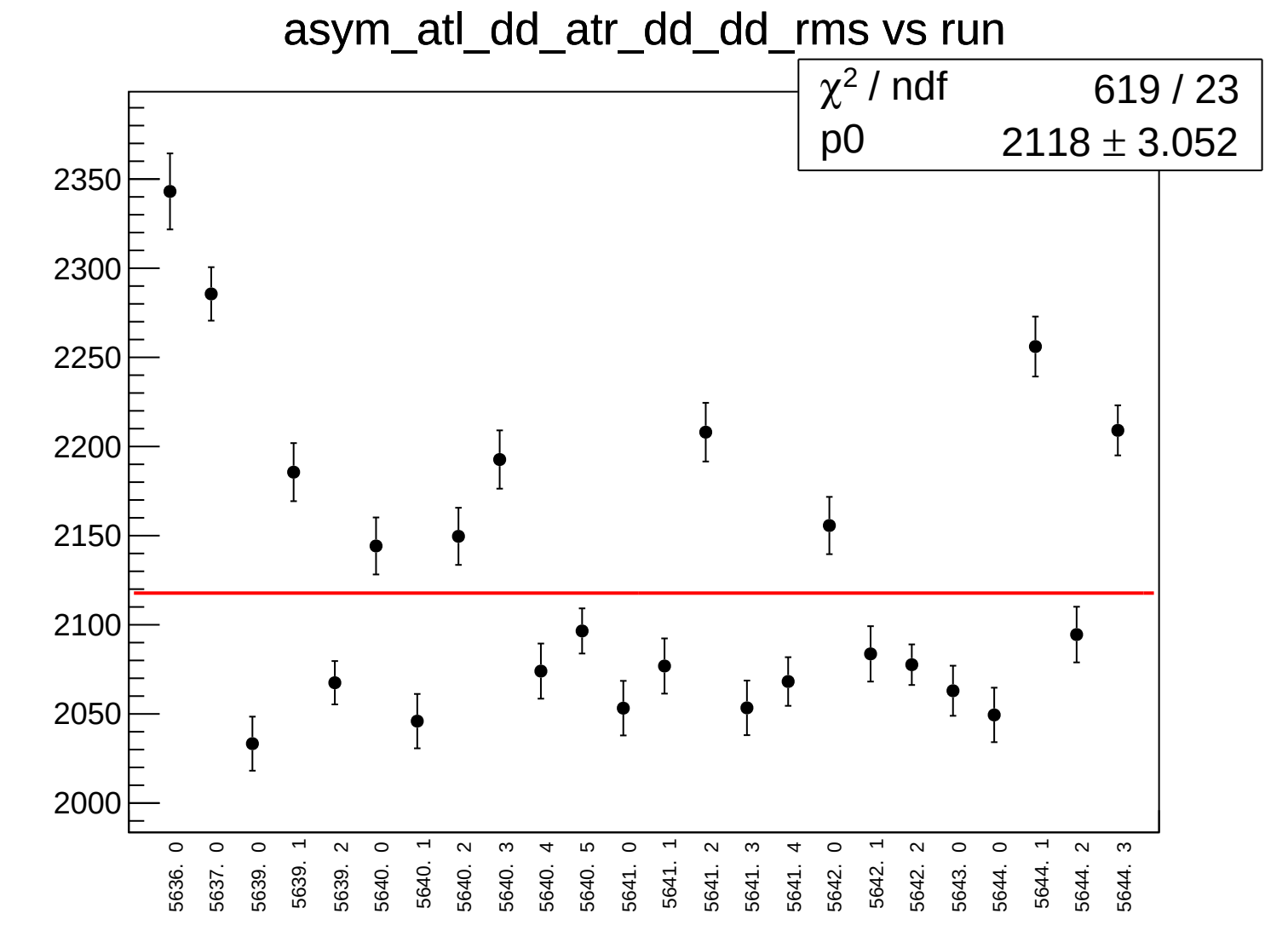

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 72.94 / 23
p0 1372 ± 1.977
1460
1440
1420
1400
1380
1360
1340
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

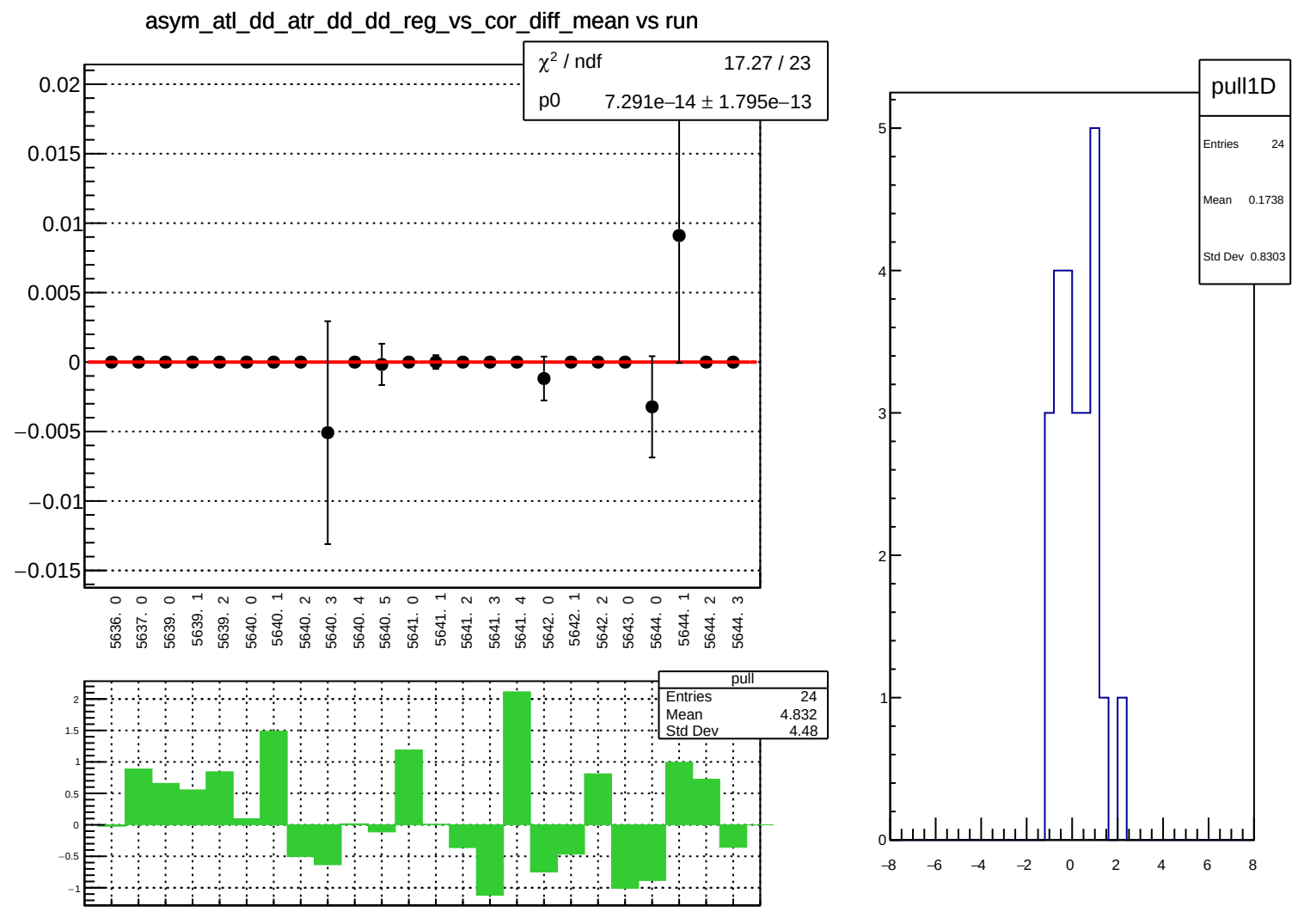

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 32.72 / 23
p0 414.4 ± 3376
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −14.06
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

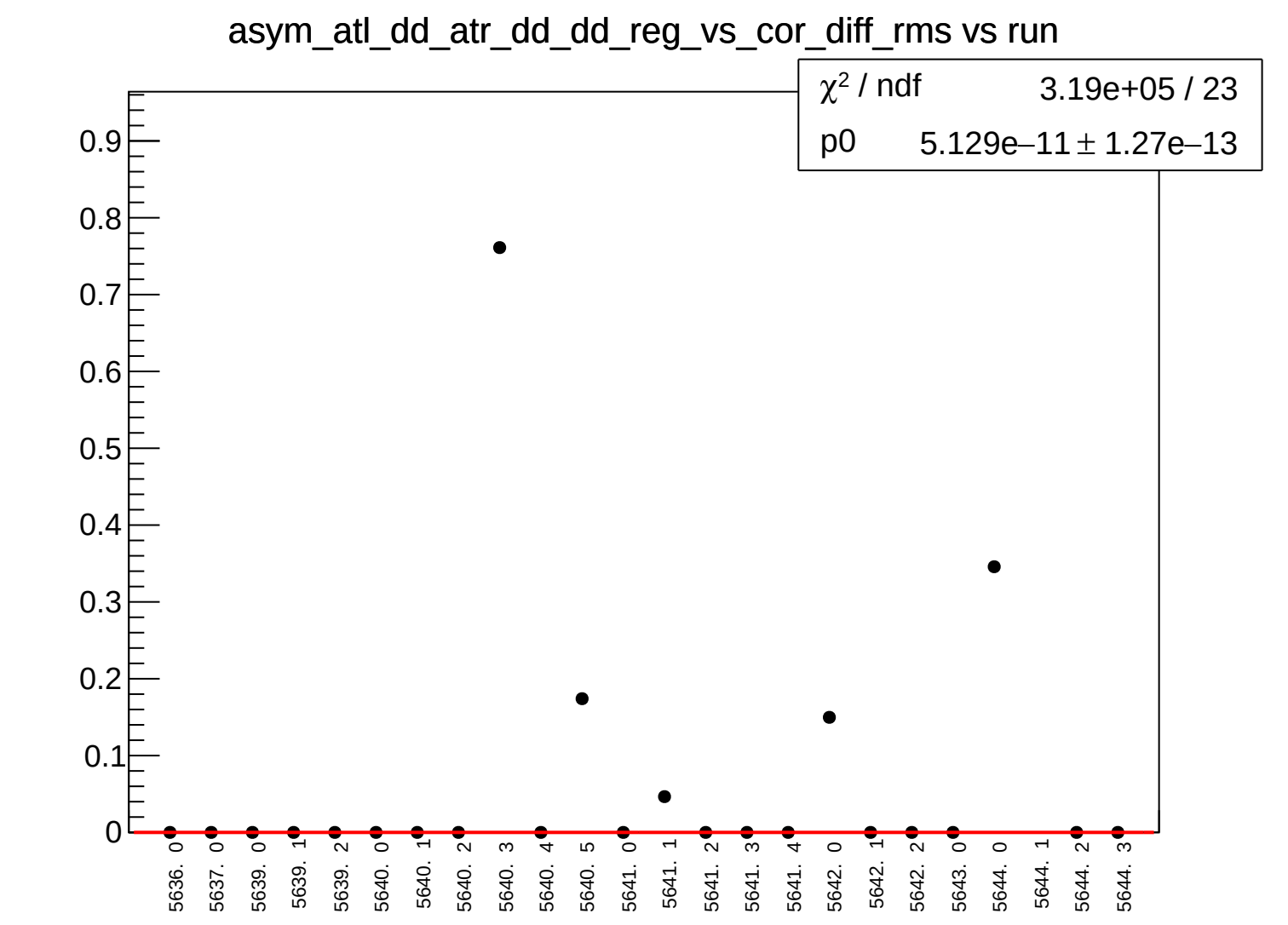

pull1D
Entries 24
Mean −0.04958
Std Dev 1.167
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

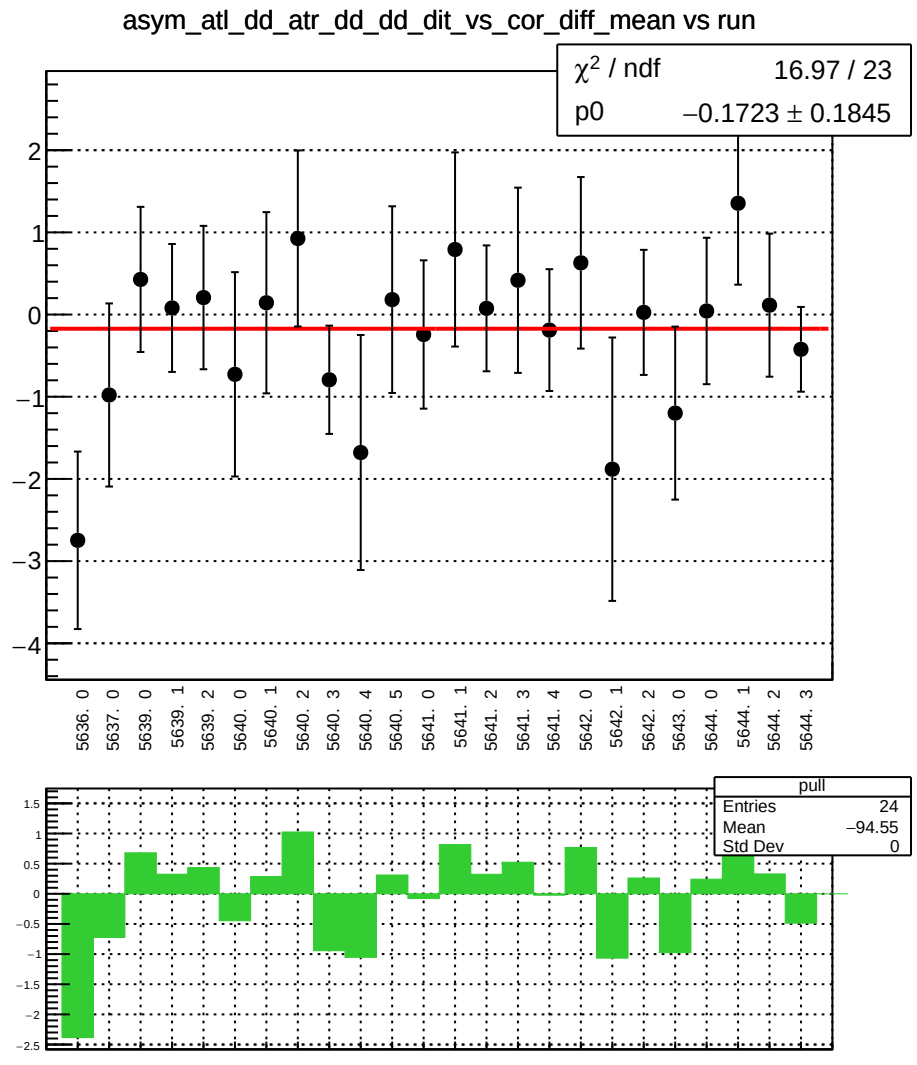

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1291 / 23
p0 1656 ± 2.387
1950
1900
1850
1800
1750
1700
1650
1600
1550
1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

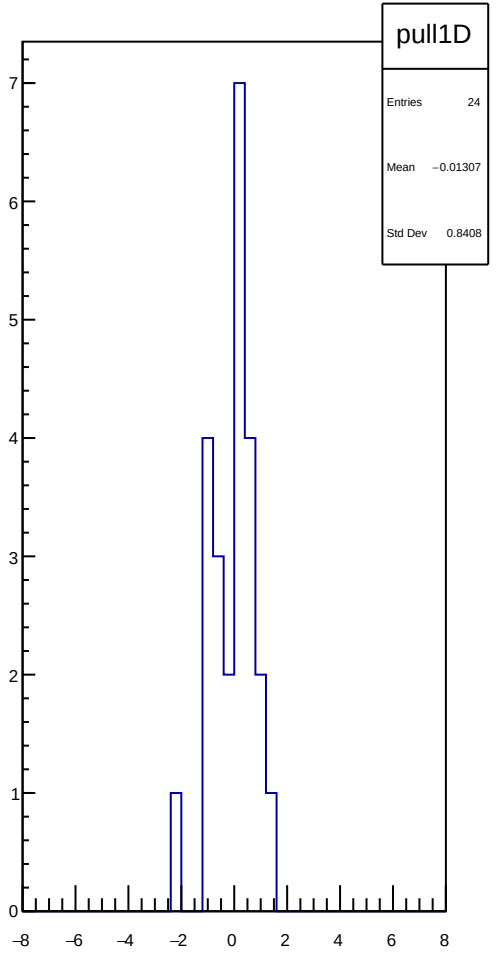

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 33.67 / 23
p0 2555 ± 4316
×10³
100
80
60
40
20
0
−20
−40
−60
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −144.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.0139
Std Dev 1.184
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

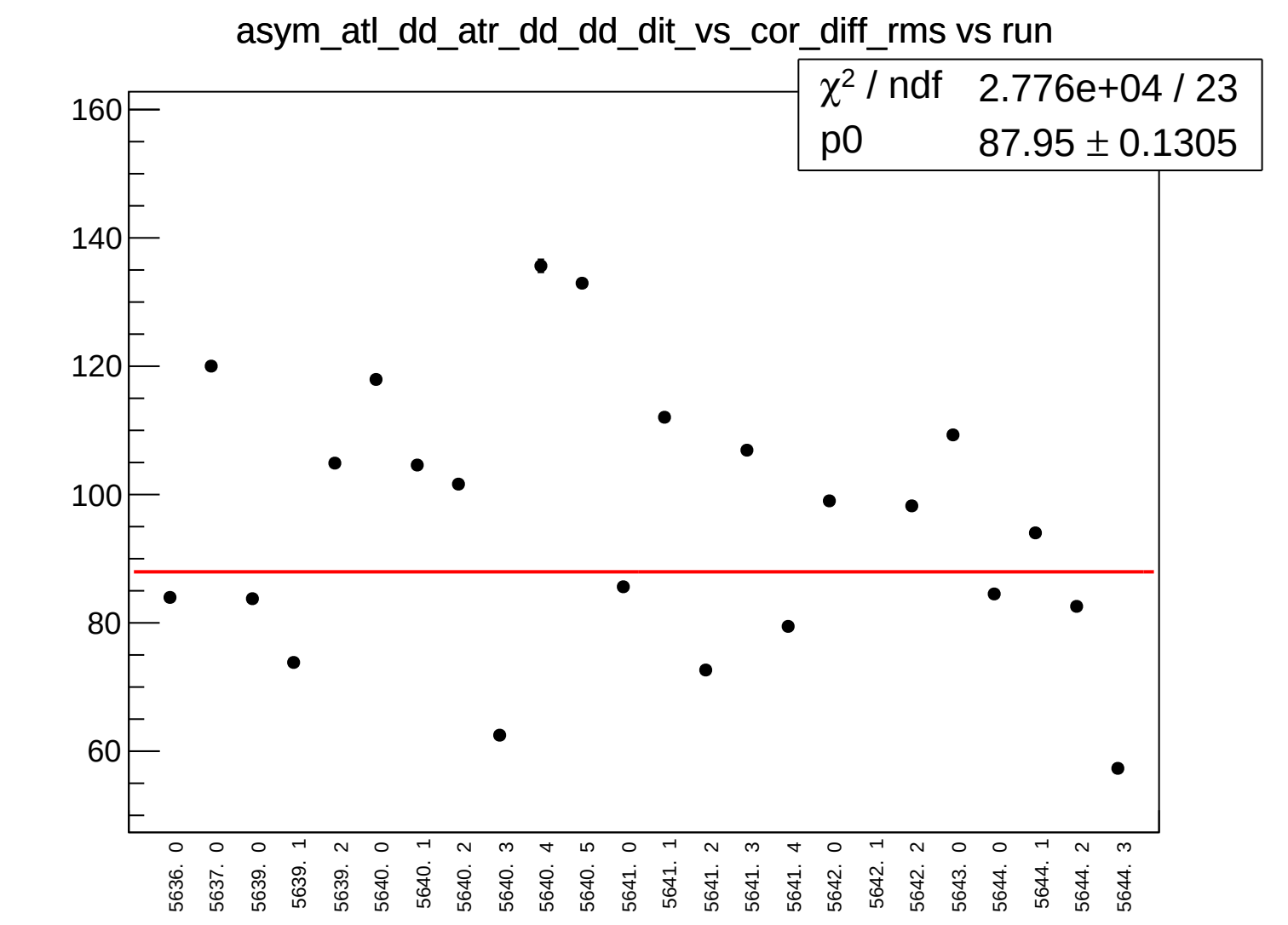

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 619 / 23
p0 2118 ± 3.052
2350
2300
2250
2200
2150
2100
2050
2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

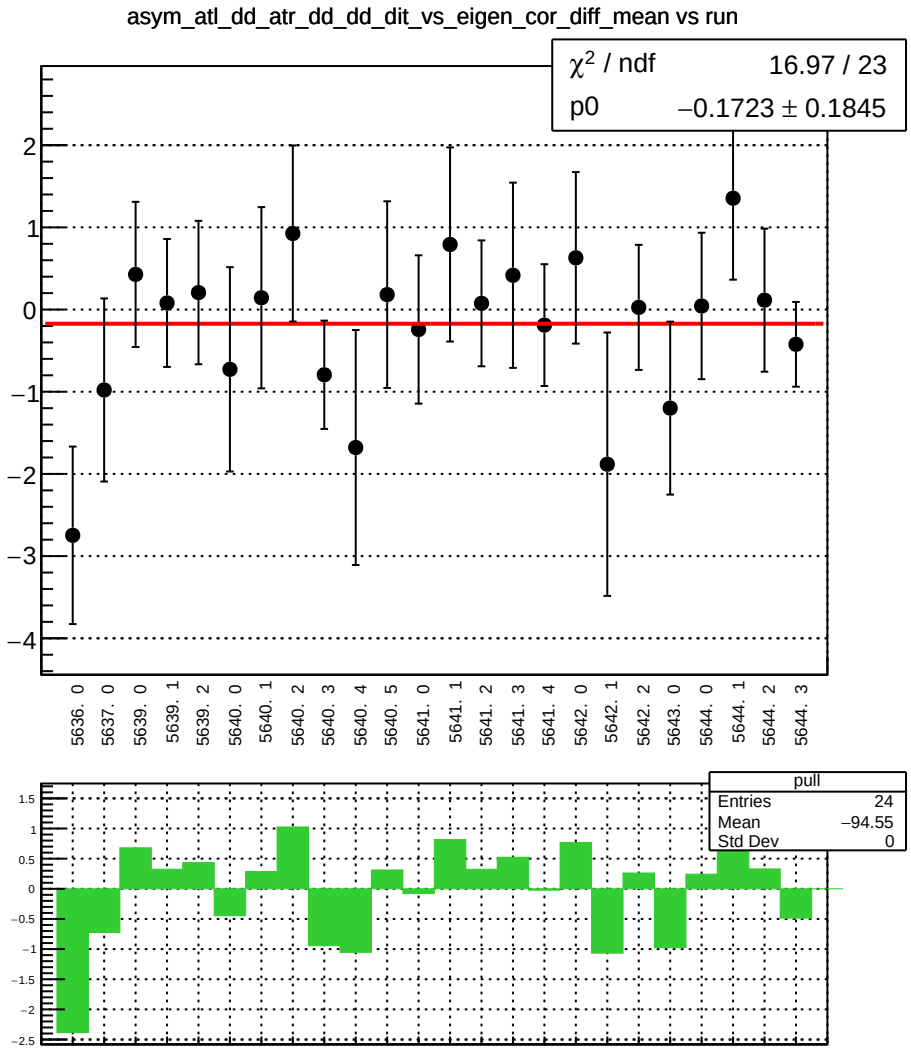

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 17.27 / 23
p0 7.291e−14 ± 1.795e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 4.832
Std Dev 4.48
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.1738
Std Dev 0.8303
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

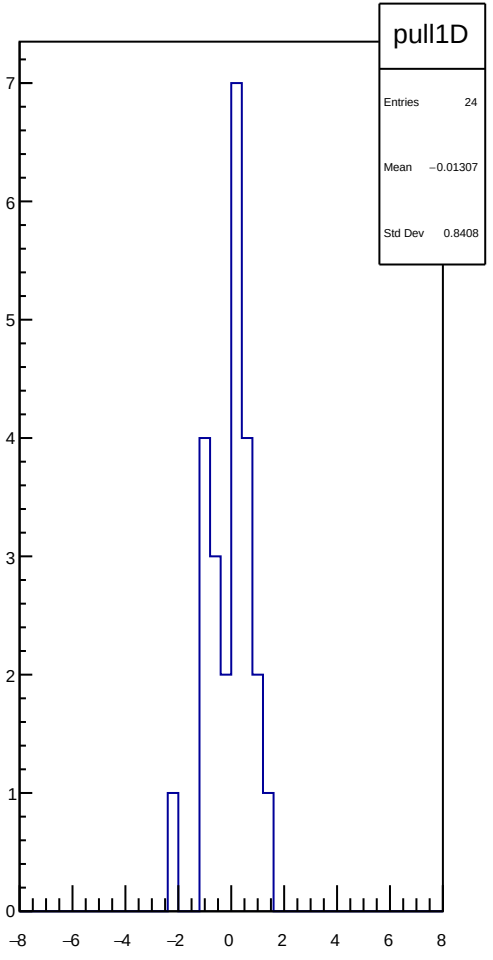

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.19e+05 / 23
p0 5.129e−11 ± 1.27e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

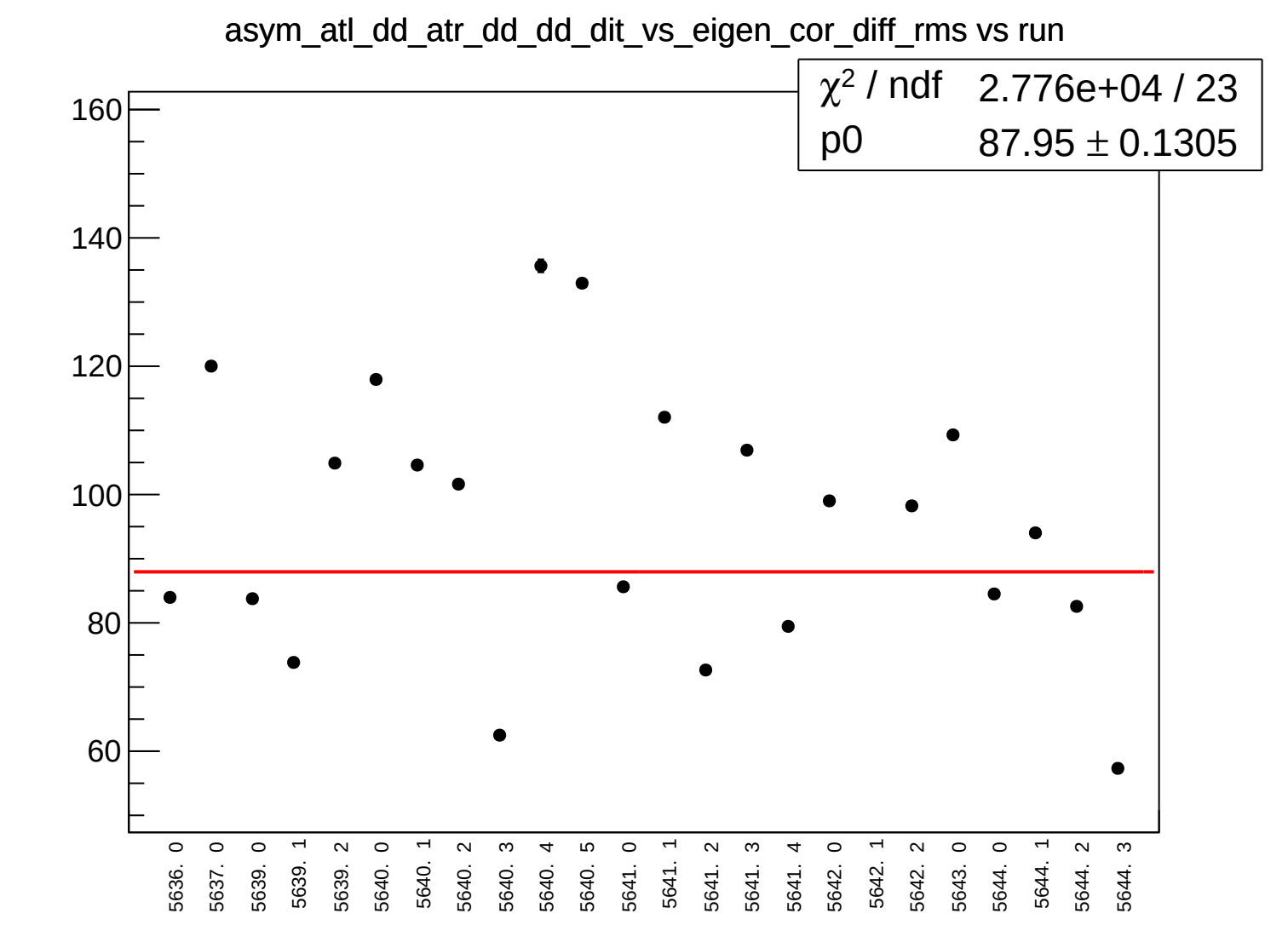

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 16.97 / 23
p0 −0.1723 ± 0.1845
2
1
0
−1
−2
−3
−4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −94.55
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

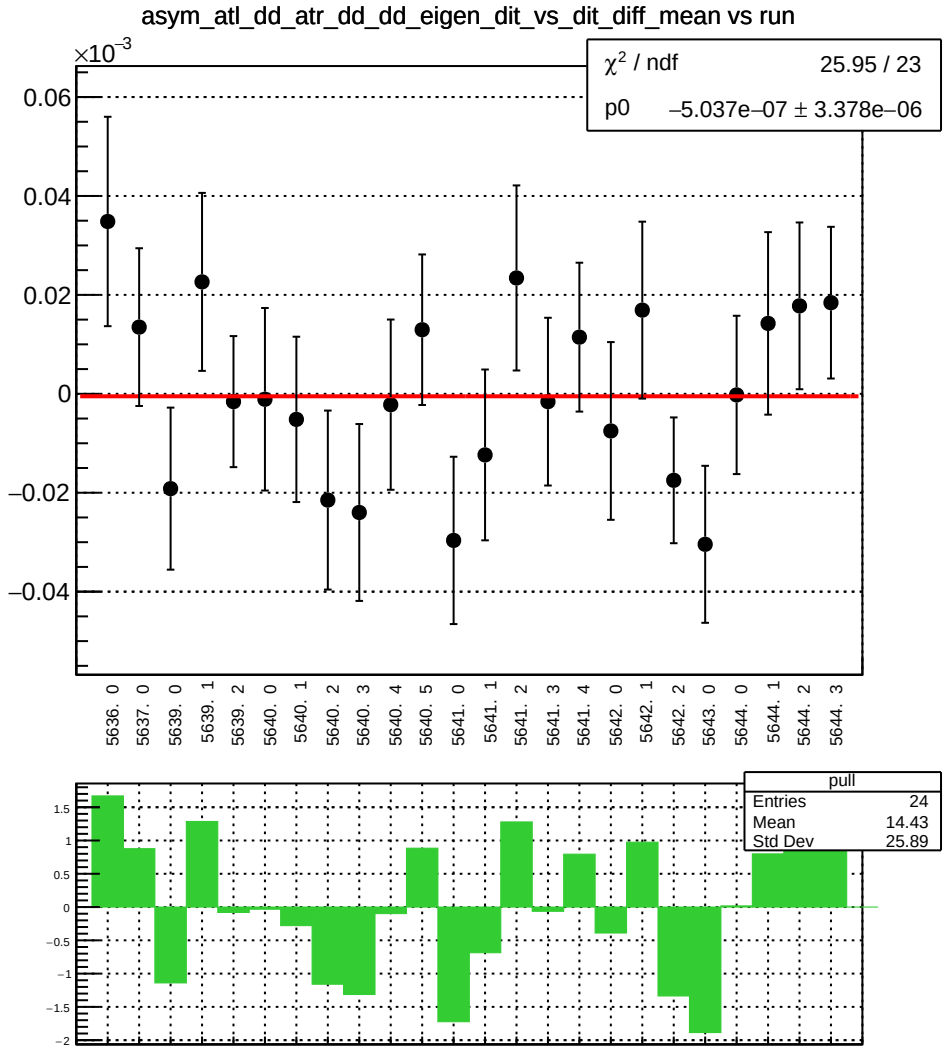

pull1D
Entries 24
Mean −0.01307
Std Dev 0.8408
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

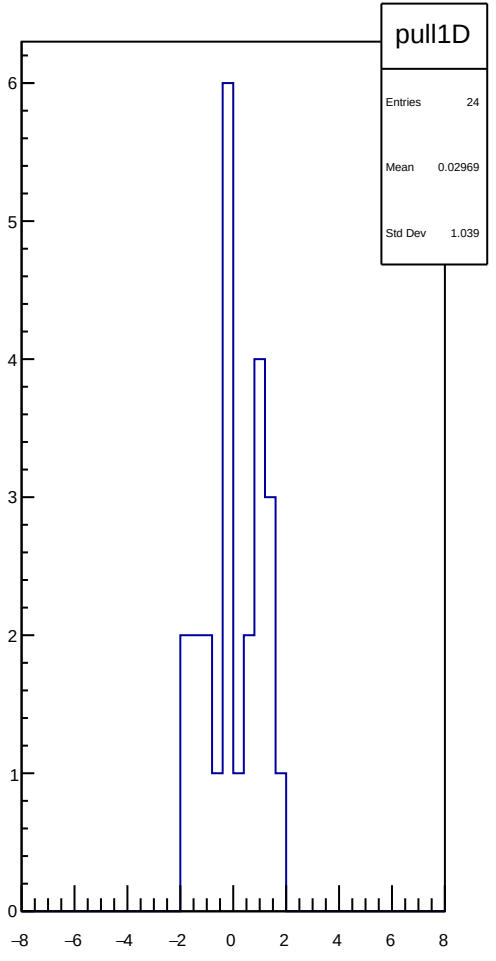

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.776e+04 / 23
p0 87.95 ± 0.1305
160
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

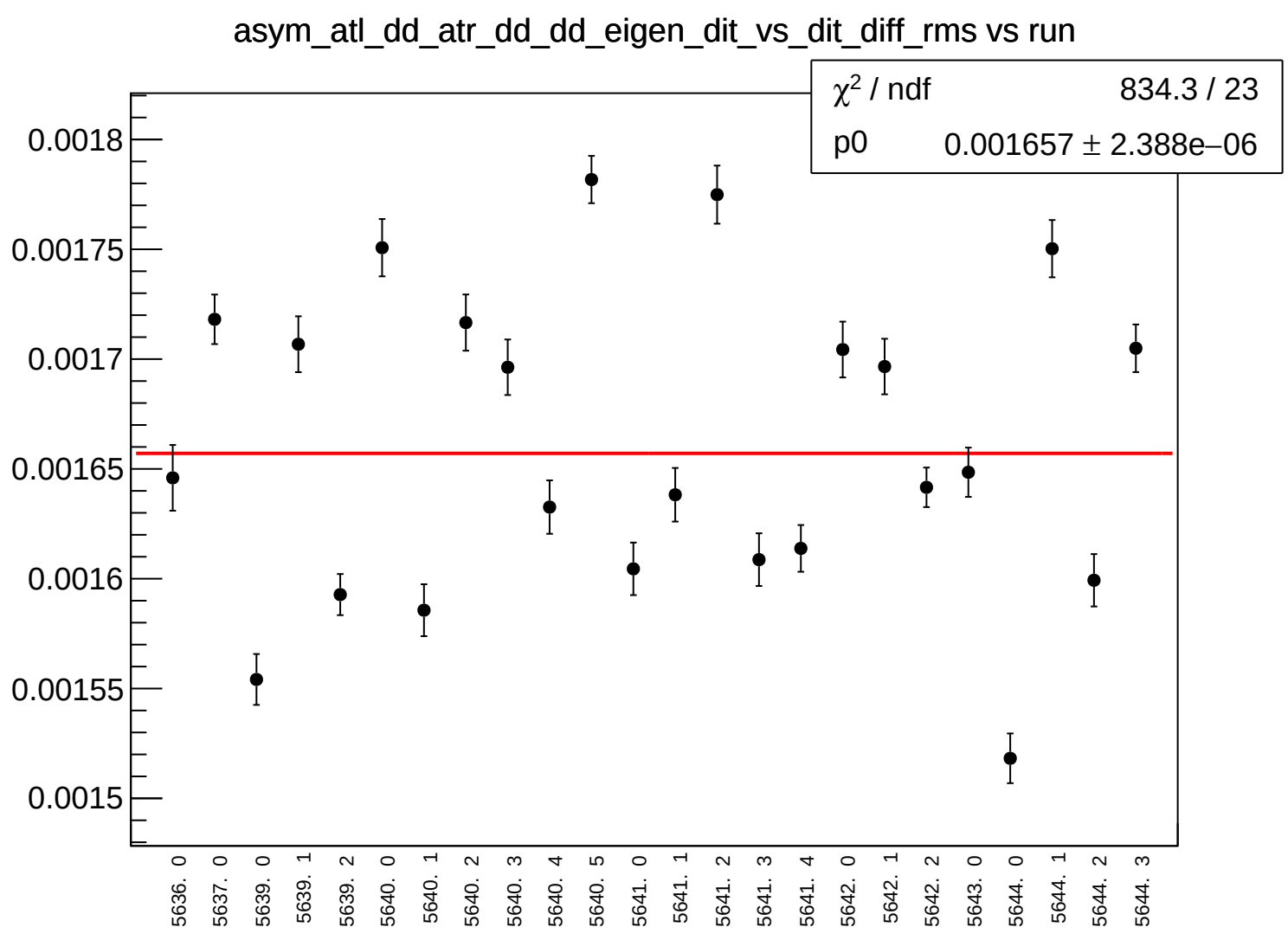

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 16.97 / 23
p0 −0.1723 ± 0.1845
2
1
0
−1
−2
−3
−4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −94.55
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

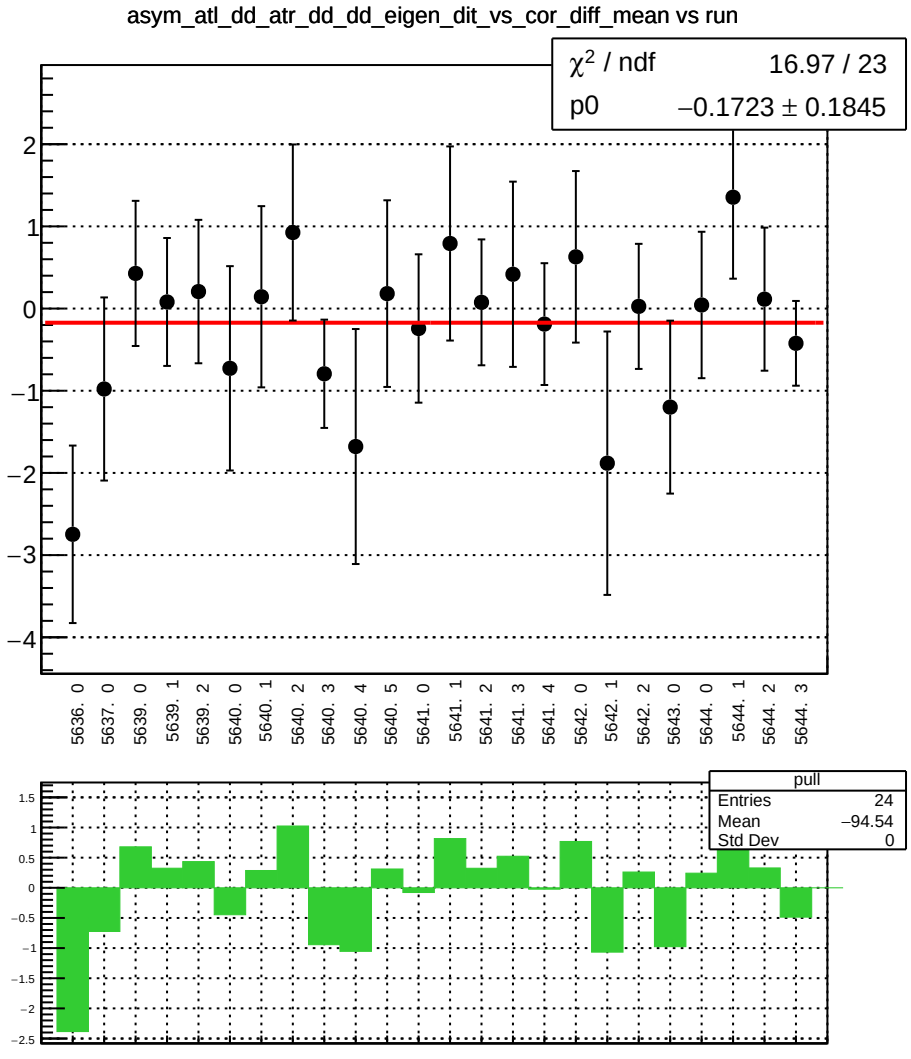

pull1D
Entries 24
Mean −0.01307
Std Dev 0.8408
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

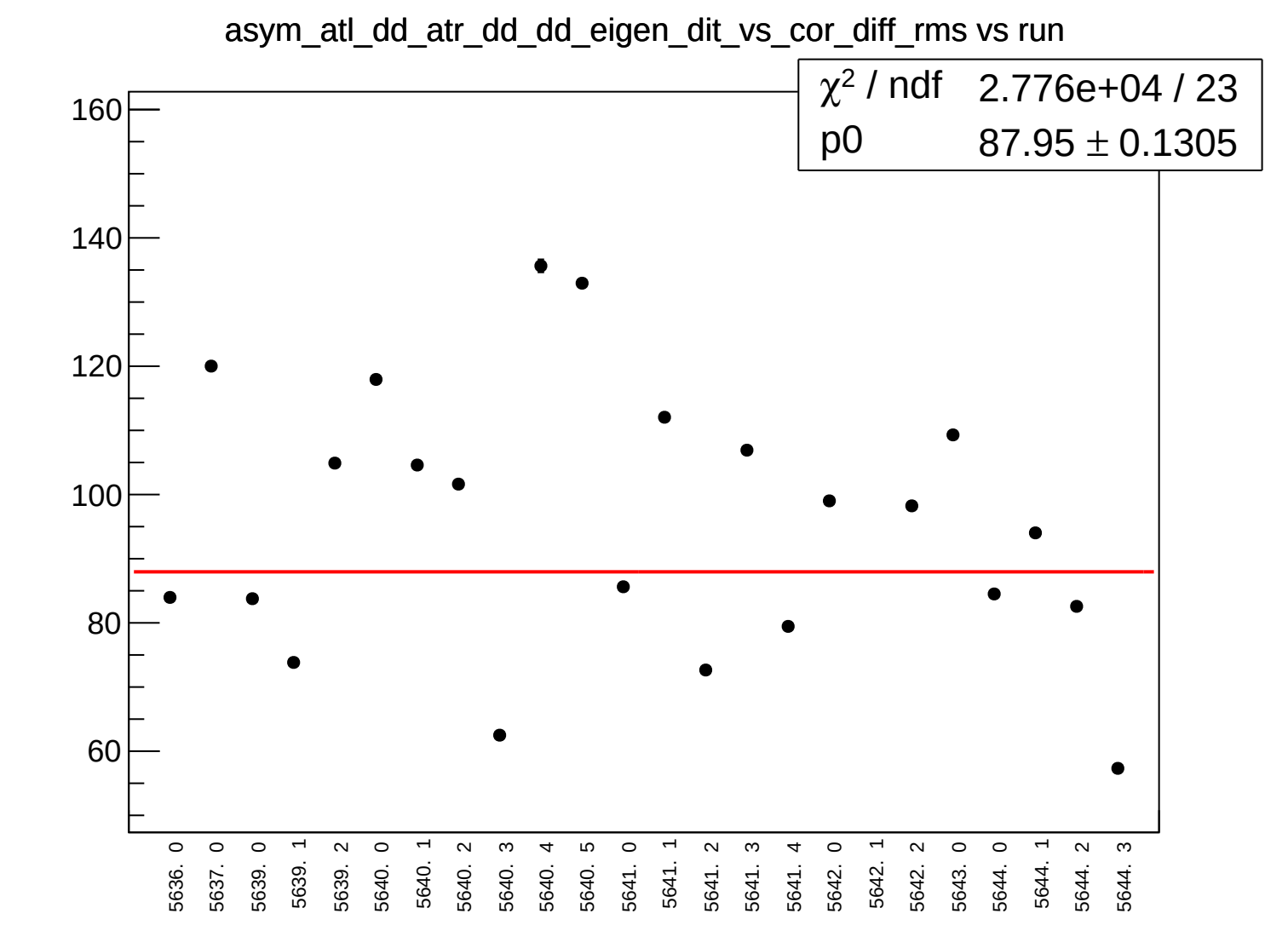

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.776e+04 / 23
p0 87.95 ± 0.1305
160
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

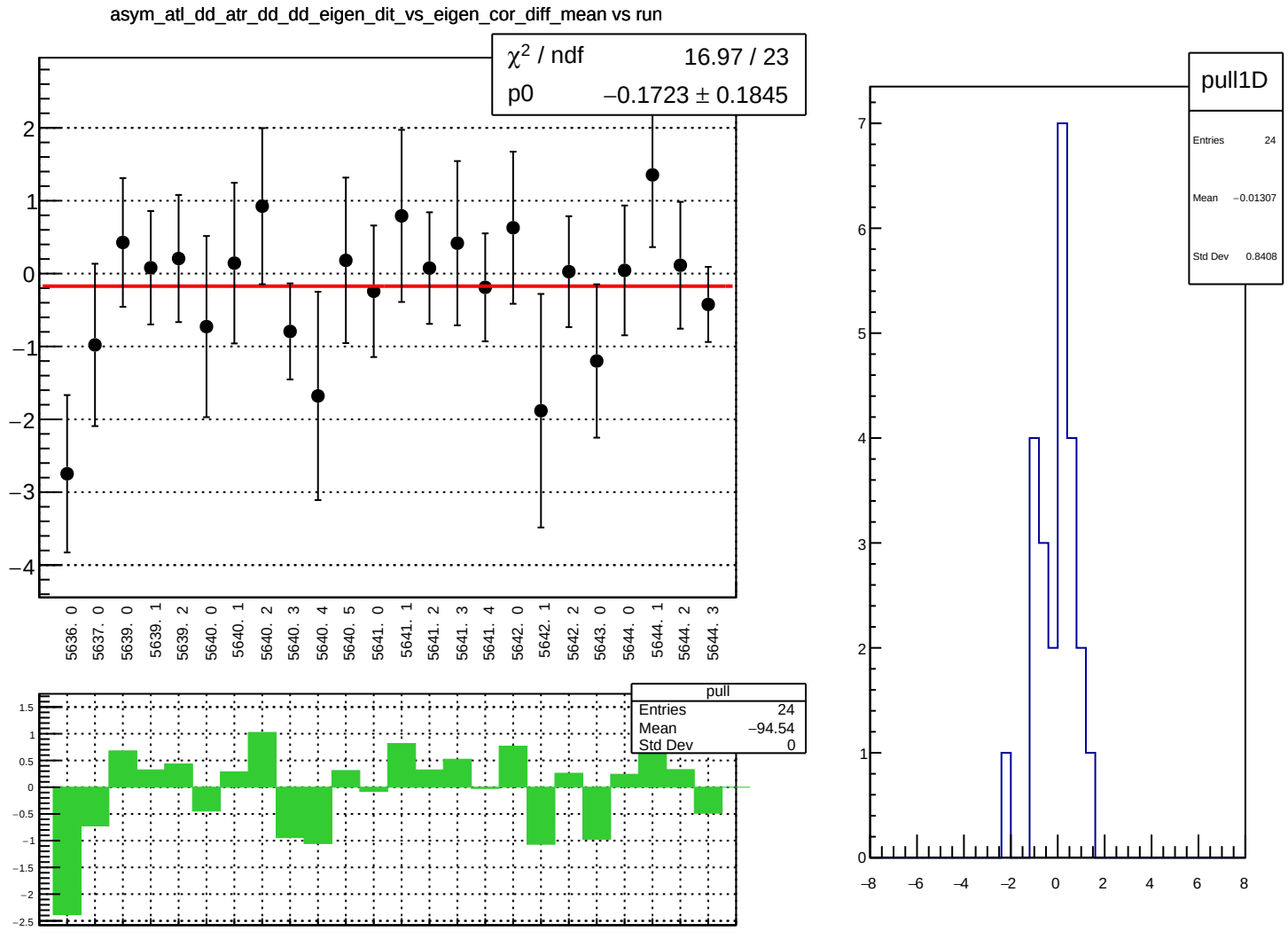

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 25.95 / 23
p0 −5.037e−07 ± 3.378e−06
0.06
0.04
0.02
0
−0.02
−0.04
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 14.43
Std Dev 25.89
1.5
1
0.5
0
−0.5
−1
−1.5
−2

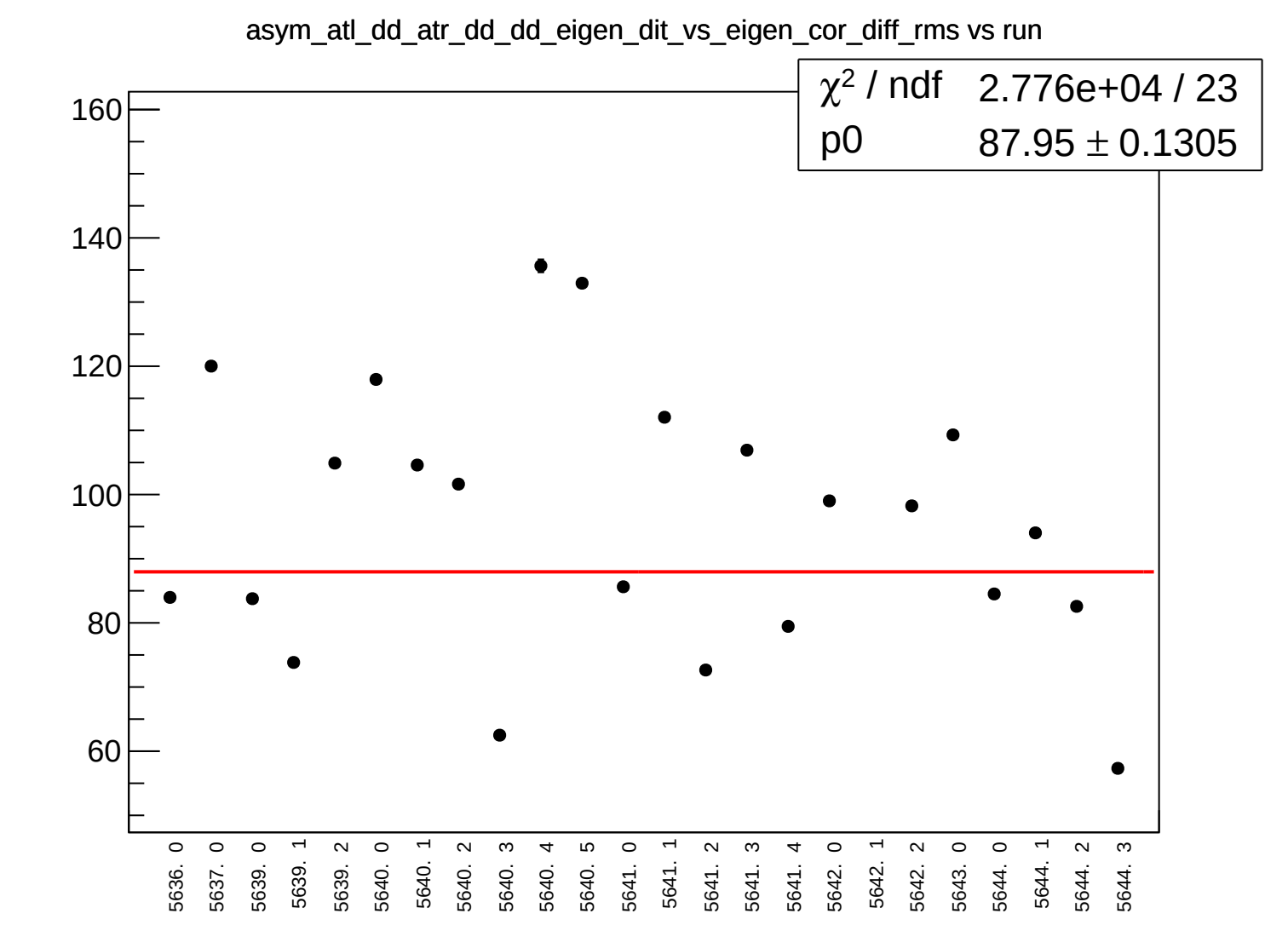

pull1D
Entries 24
Mean 0.02969
Std Dev 1.039
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

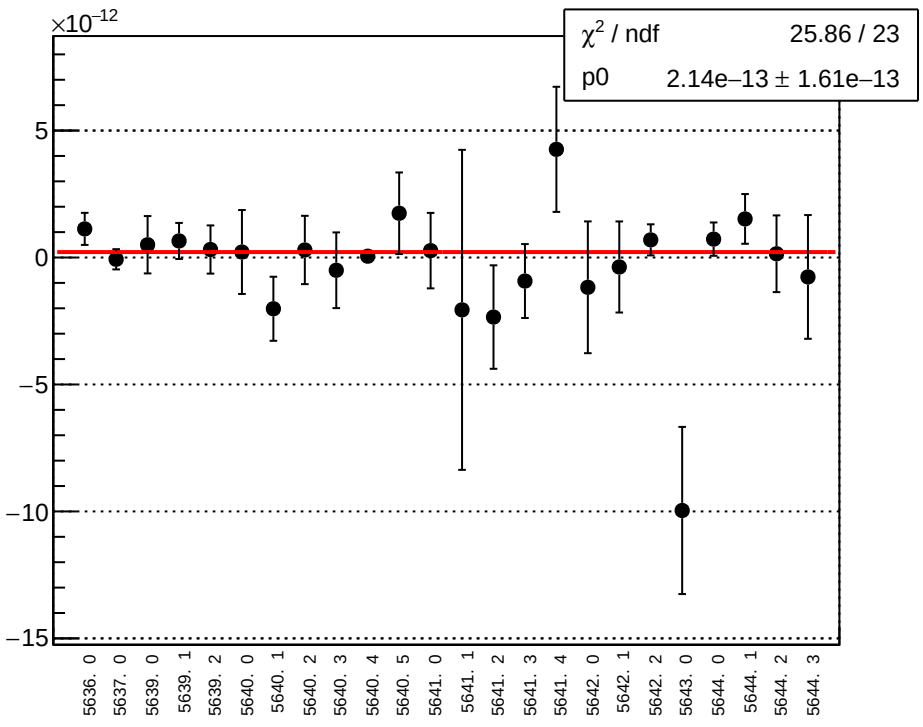

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 834.3 / 23
p0 0.001657 ± 2.388e−06
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

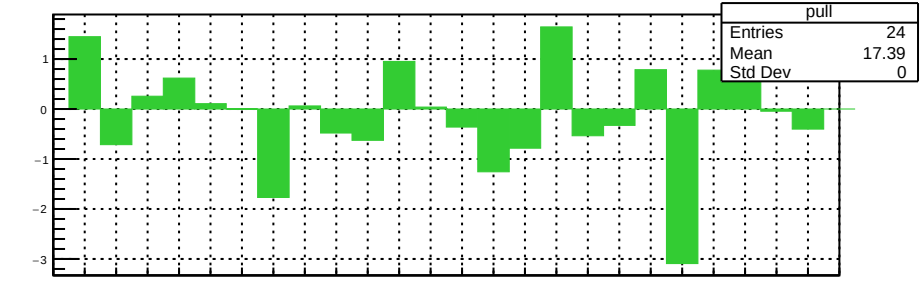

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 16.97 / 23
p0 −0.1723 ± 0.1845
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −94.54
Std Dev 0
pull1D
Entries 24
Mean −0.01307
Std Dev 0.8408

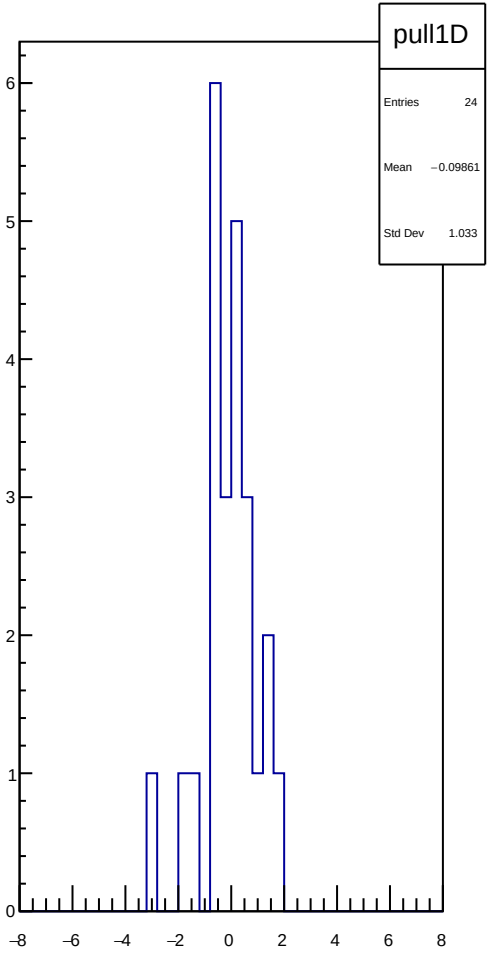

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.776e+04 / 23
p0 87.95 ± 0.1305
160
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

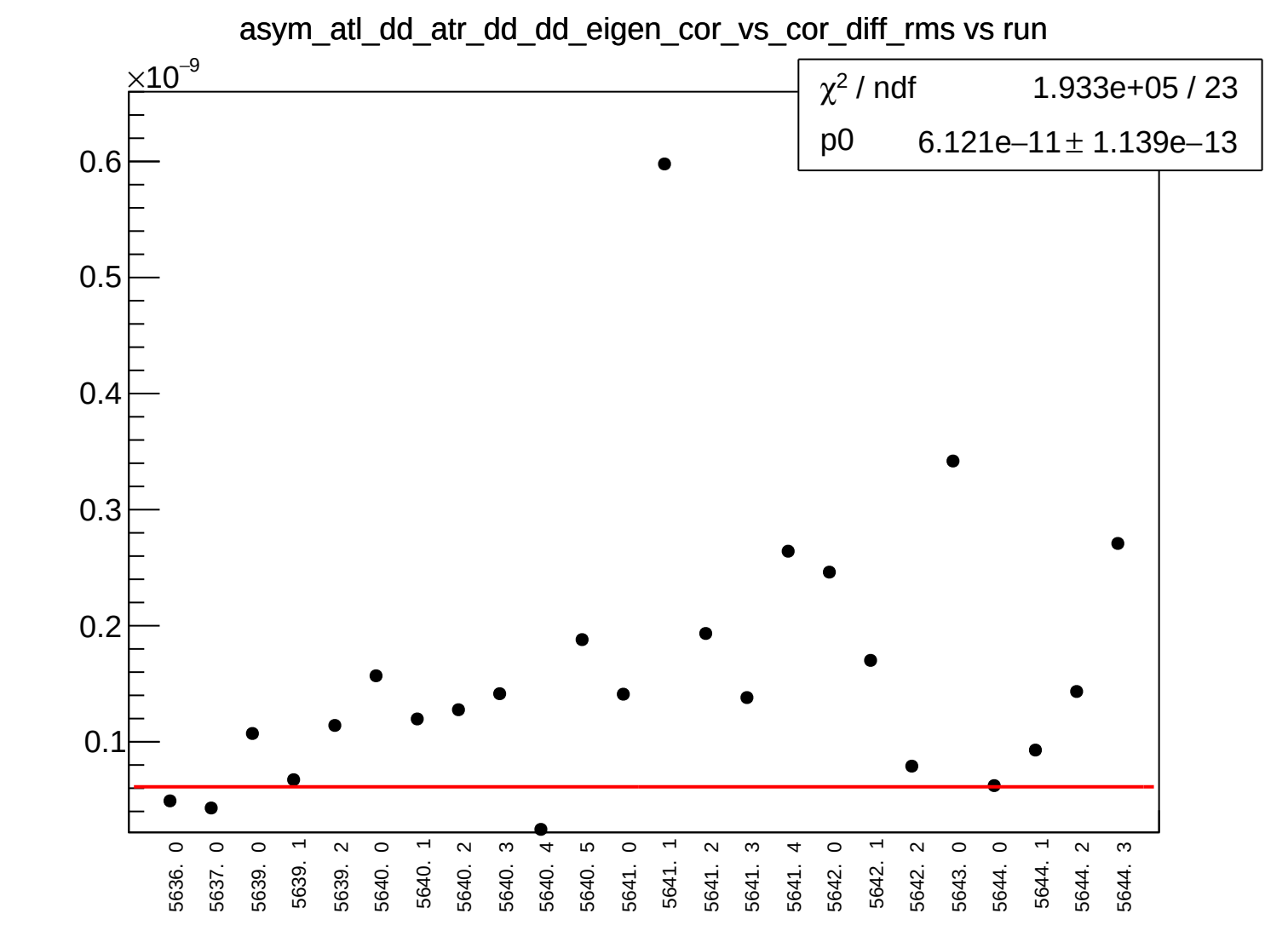

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 16.97 / 23
p0 −0.1723 ± 0.1845
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −94.54
Std Dev 0
pull1D
Entries 24
Mean −0.01307
Std Dev 0.8408

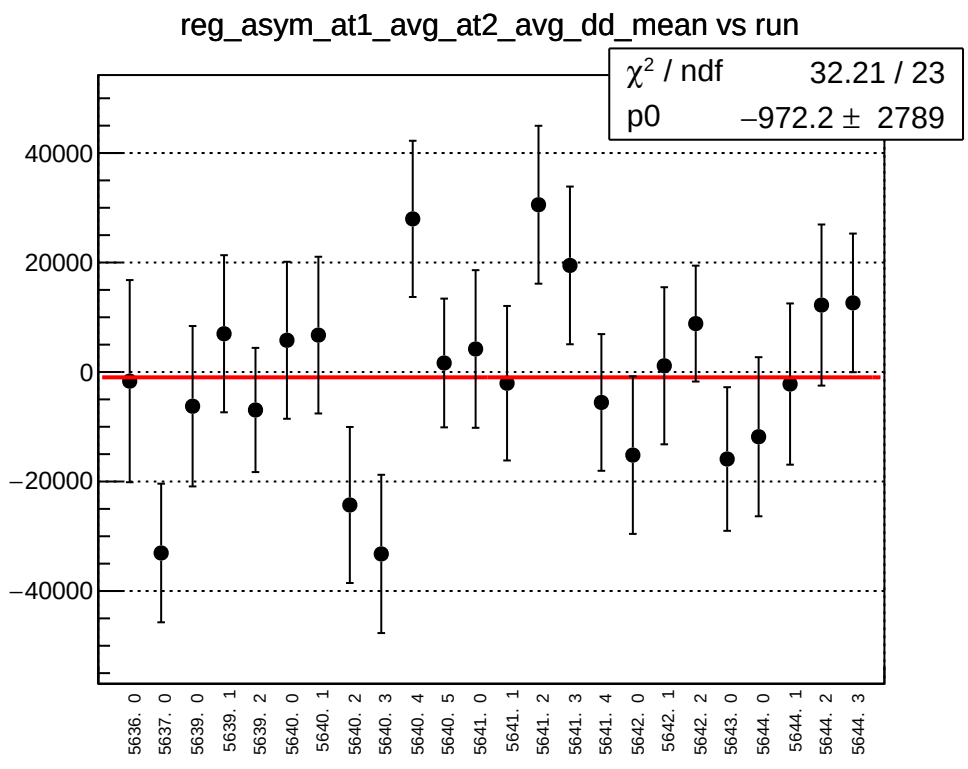

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.776e+04 / 23
p0 87.95 ± 0.1305
160
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

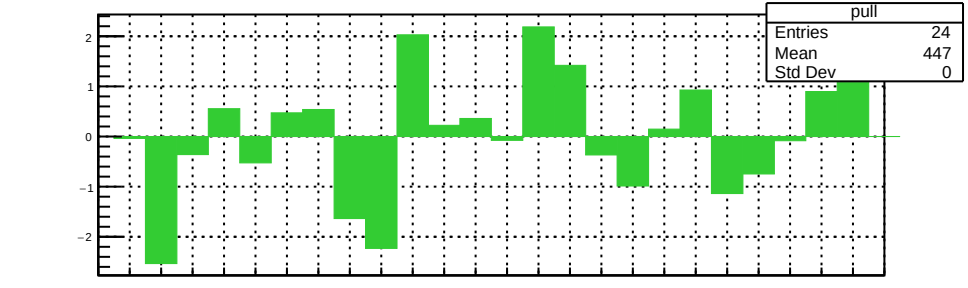

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 25.86 / 23
p0 2.14e−13 ± 1.61e−13
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

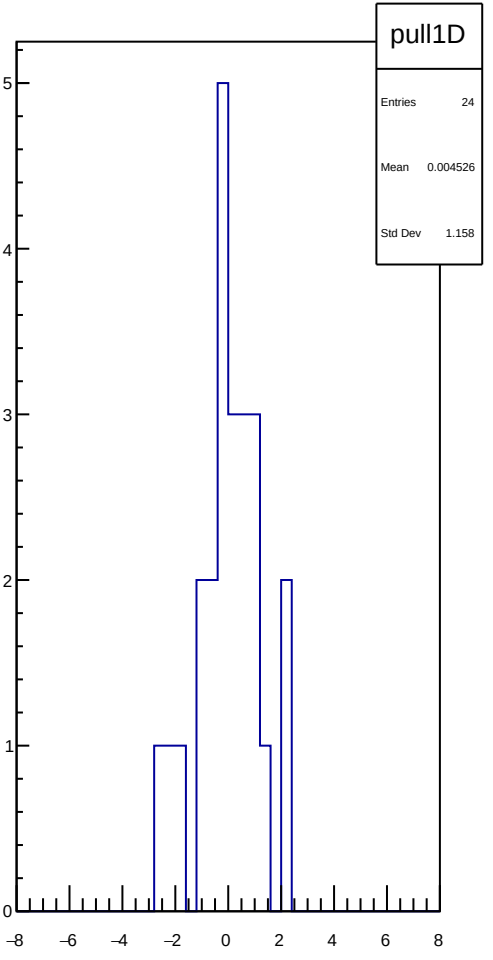

pull
Entries 24
Mean 17.39
Std Dev 0
1
0
−1
−2
−3

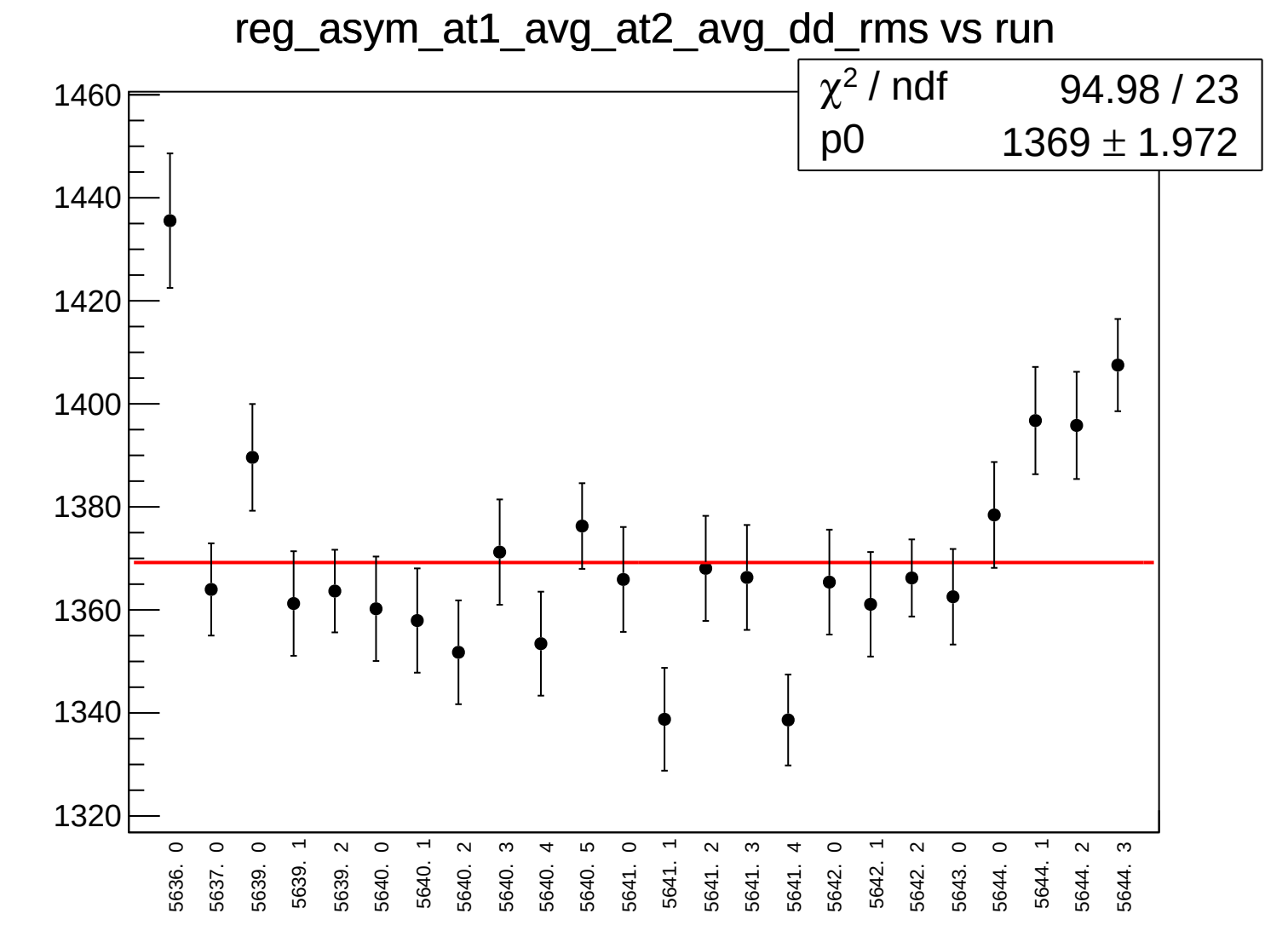

pull1D
Entries 24
Mean −0.09861
Std Dev 1.033
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

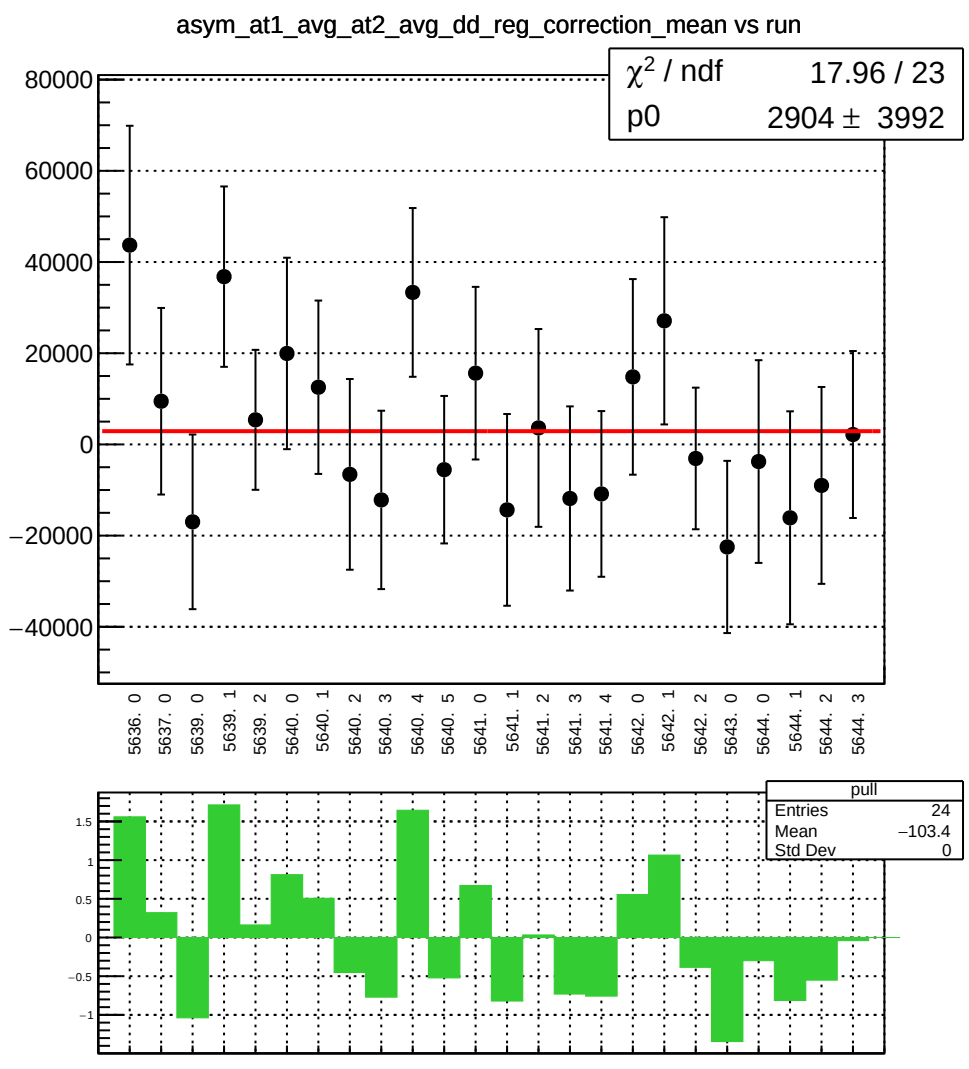

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.933e+05 / 23
p0 6.121e−11 ± 1.139e−13
0.6
0.5
0.4
0.3
0.2
0.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

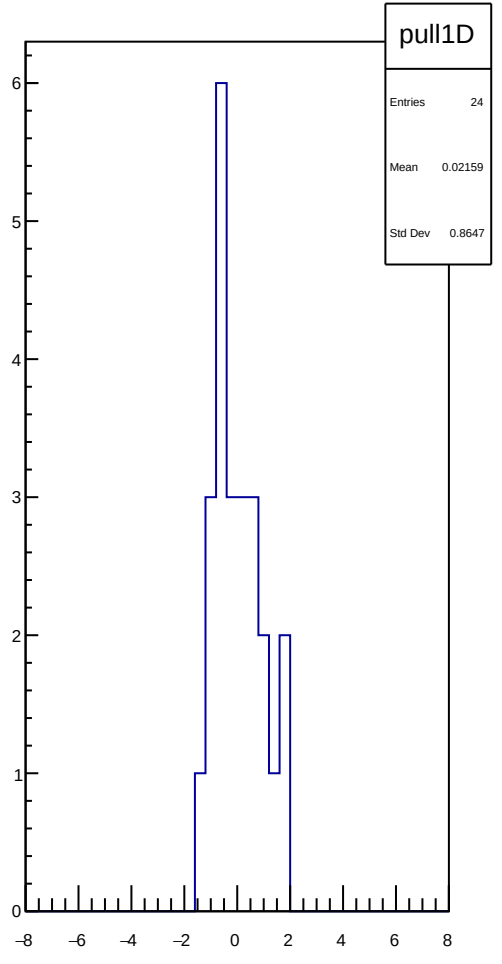

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 32.21 / 23
p0 −972.2 ± 2789
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

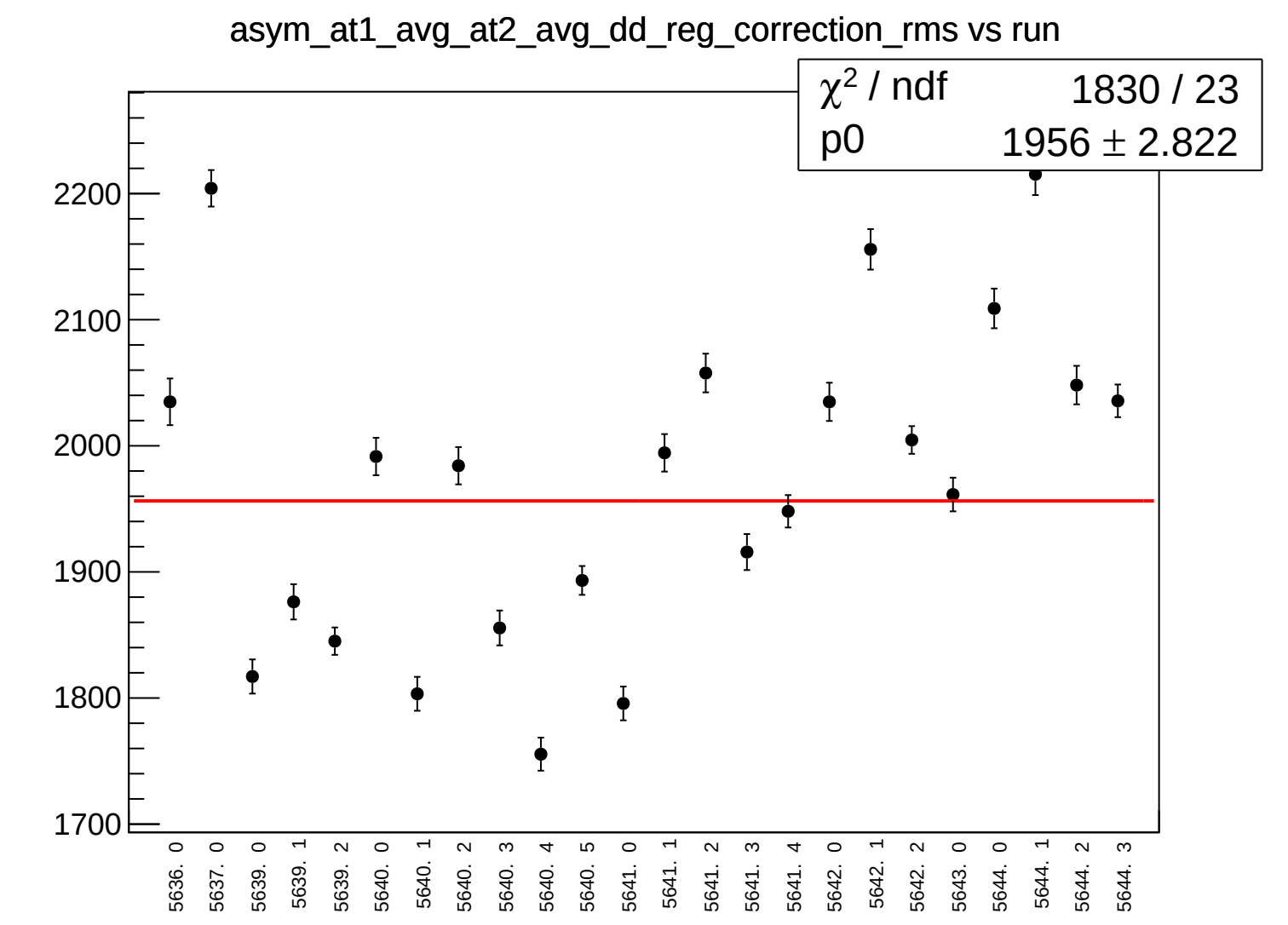

pull
Entries 24
Mean 447
Std Dev 0
2
1
0
−1
−2

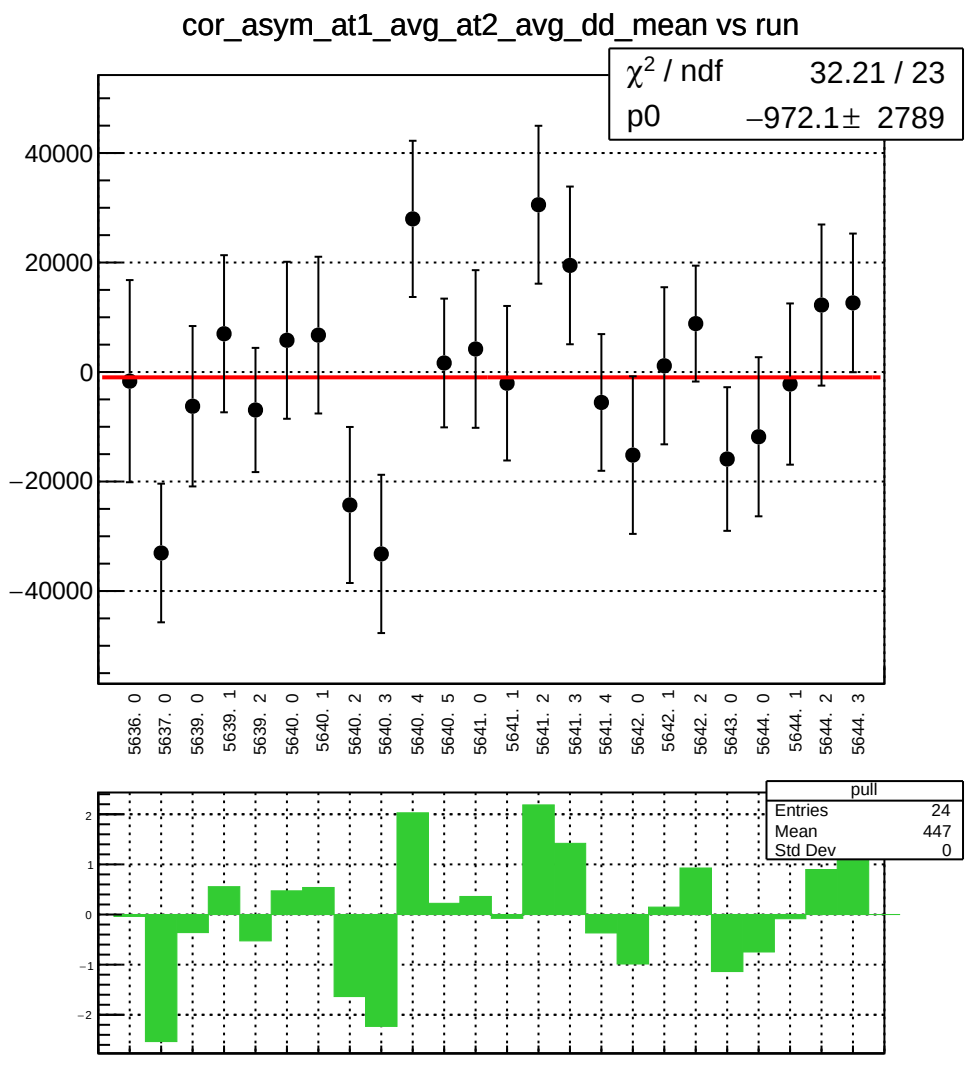

pull1D
Entries 24
Mean 0.004526
Std Dev 1.158
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

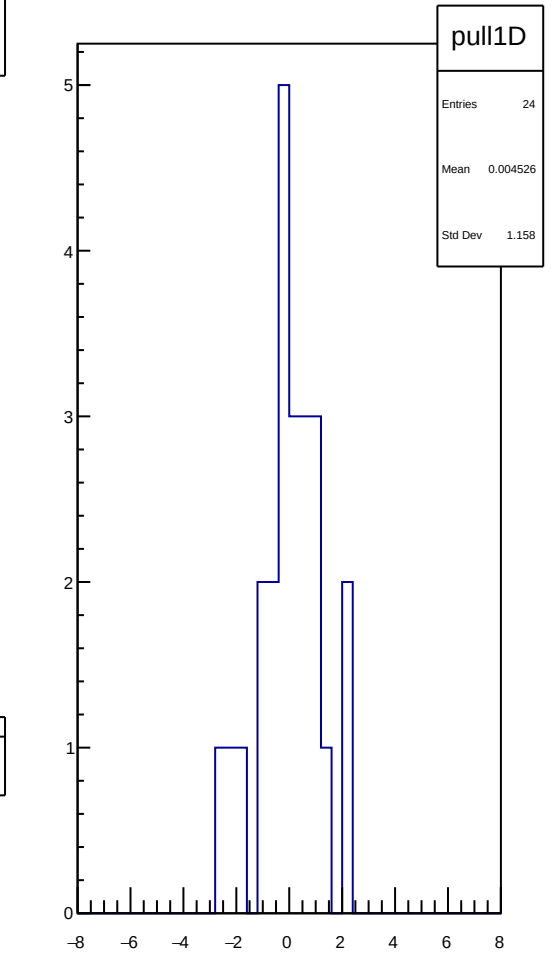

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 94.98 / 23
p0 1369 ± 1.972
1460
1440
1420
1400
1380
1360
1340
1320
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

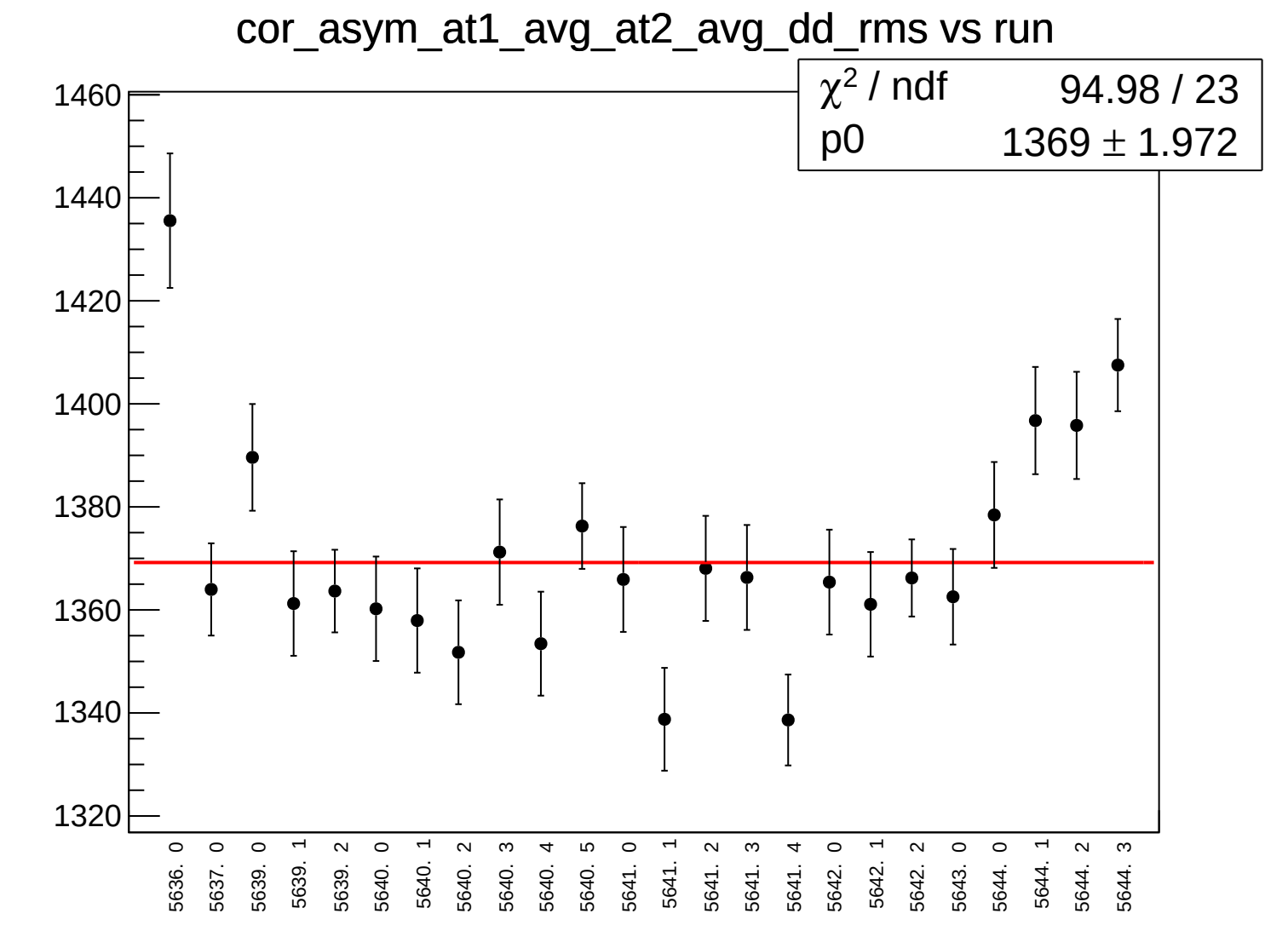

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
χ² / ndf 17.96 / 23
p0 2904 ± 3992
80000
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −103.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1

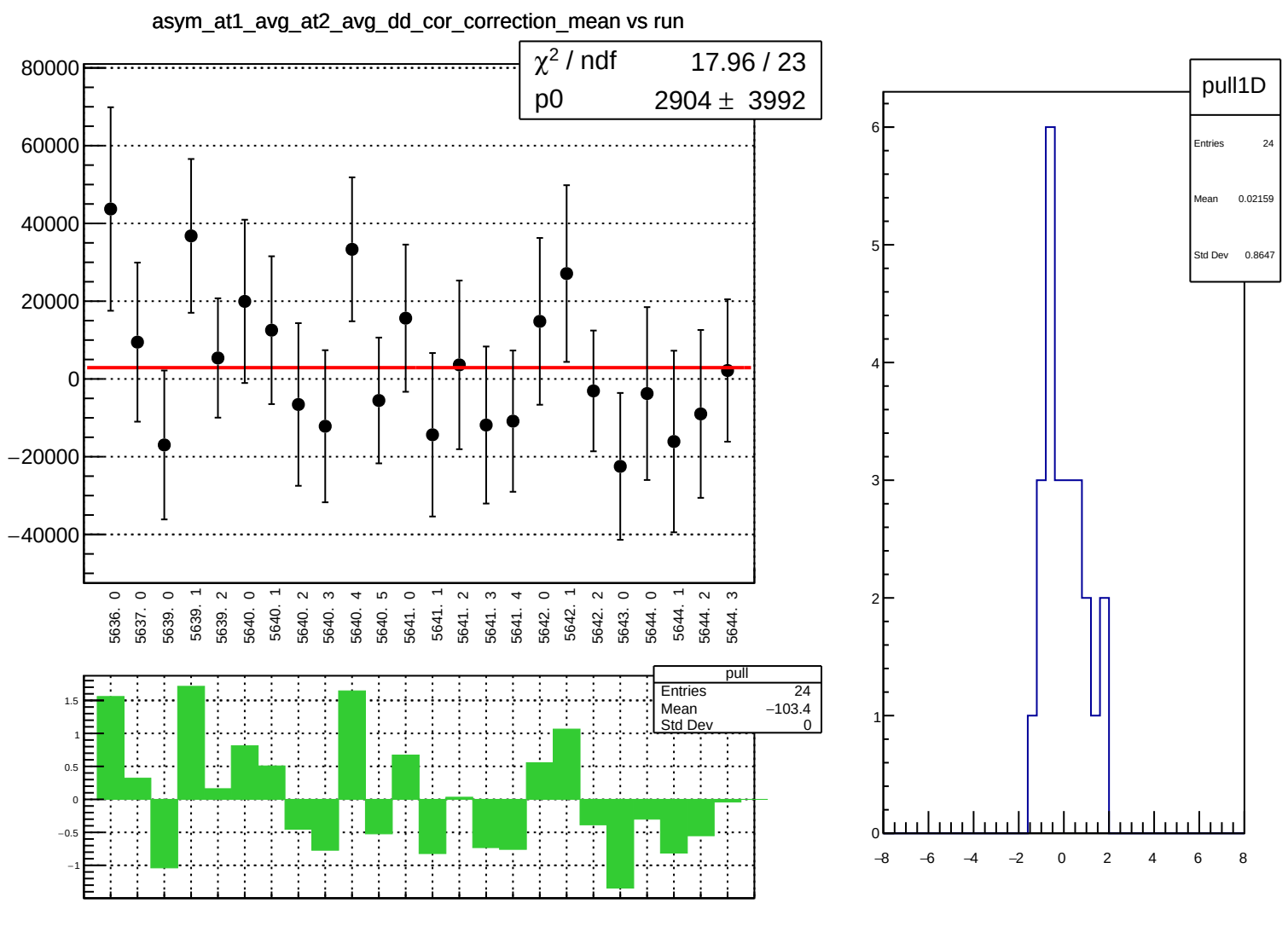

pull1D
Entries 24
Mean 0.02159
Std Dev 0.8647
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

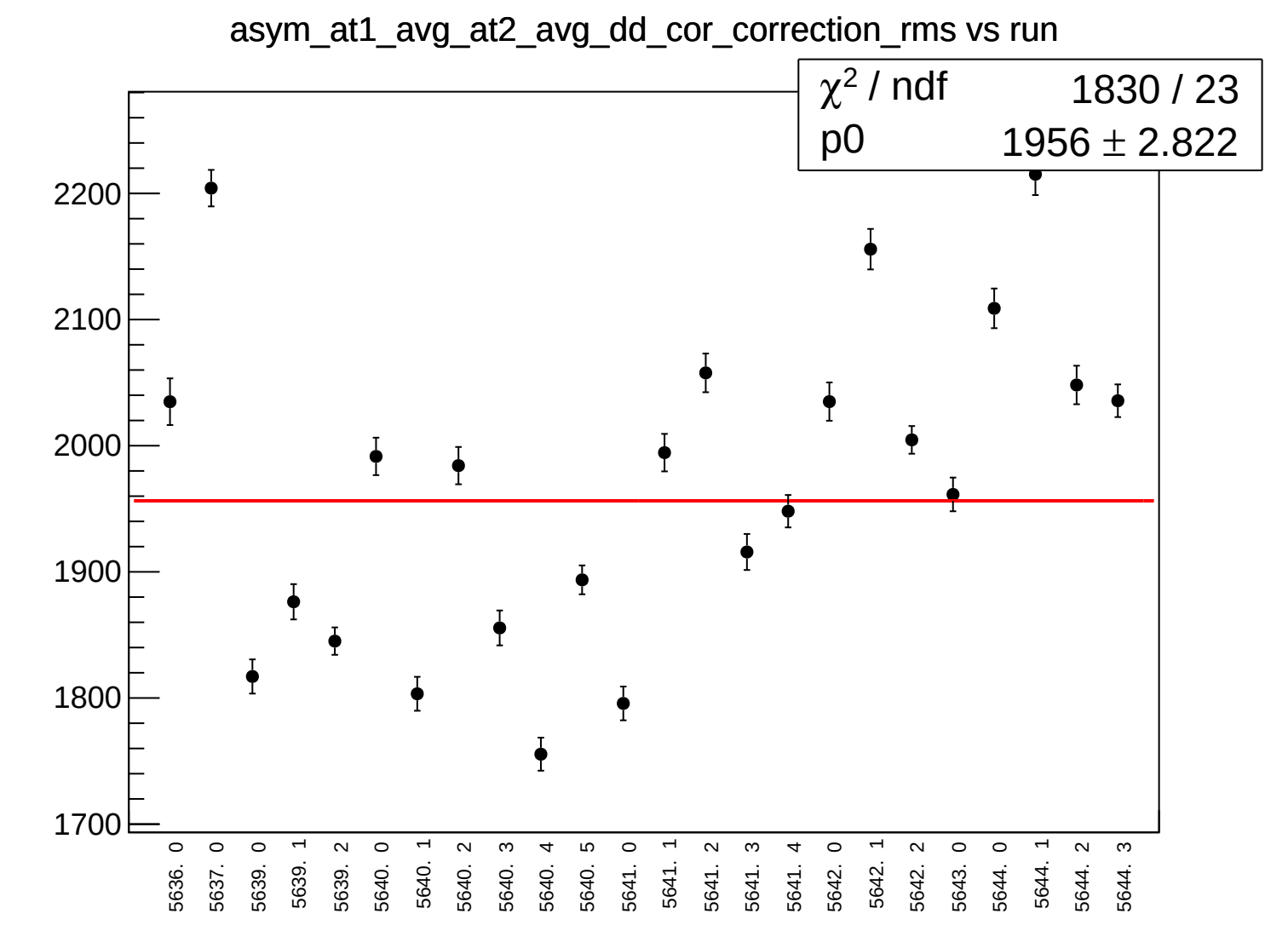

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 1830 / 23
p0 1956 ± 2.822
2200
2100
2000
1900
1800
1700
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 32.21 / 23
p0 −972.1± 2789
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 447
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 24
Mean 0.004526
Std Dev 1.158
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 94.98 / 23
p0 1369 ± 1.972
1460
1440
1420
1400
1380
1360
1340
1320
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
χ² / ndf 17.96 / 23
p0 2904 ± 3992
80000
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −103.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.02159
Std Dev 0.8647
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 1830 / 23
p0 1956 ± 2.822
2200
2100
2000
1900
1800
1700
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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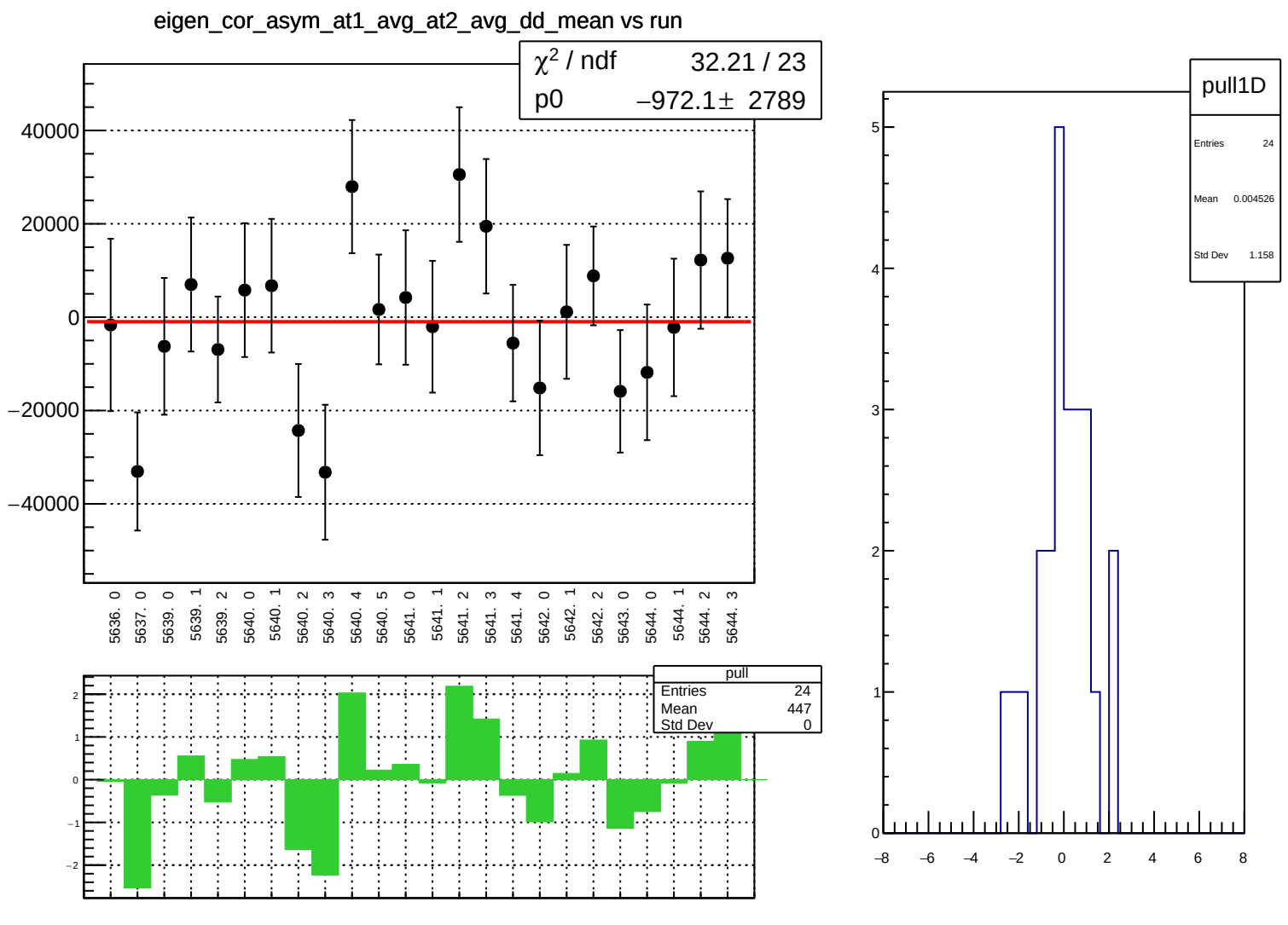
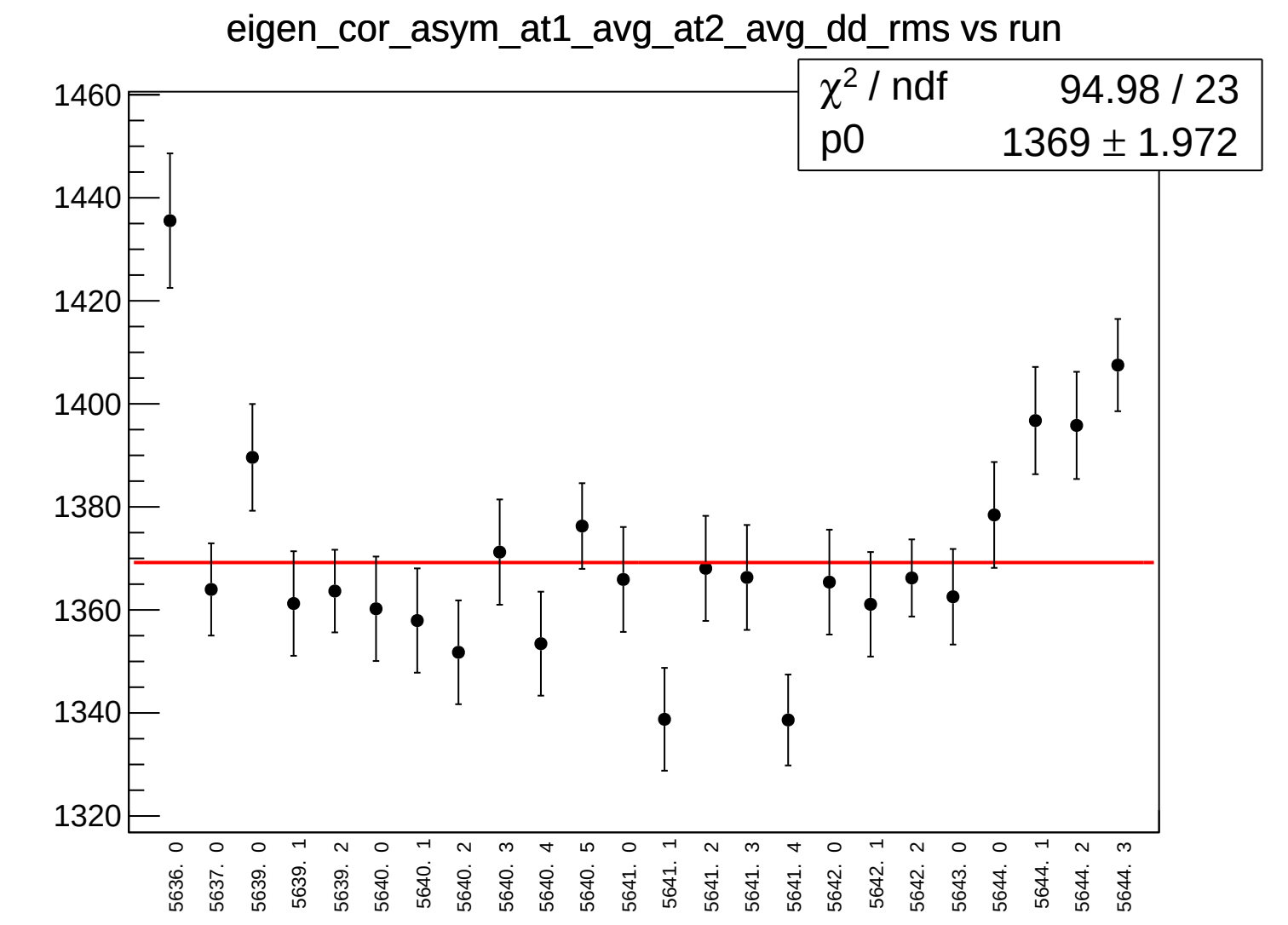
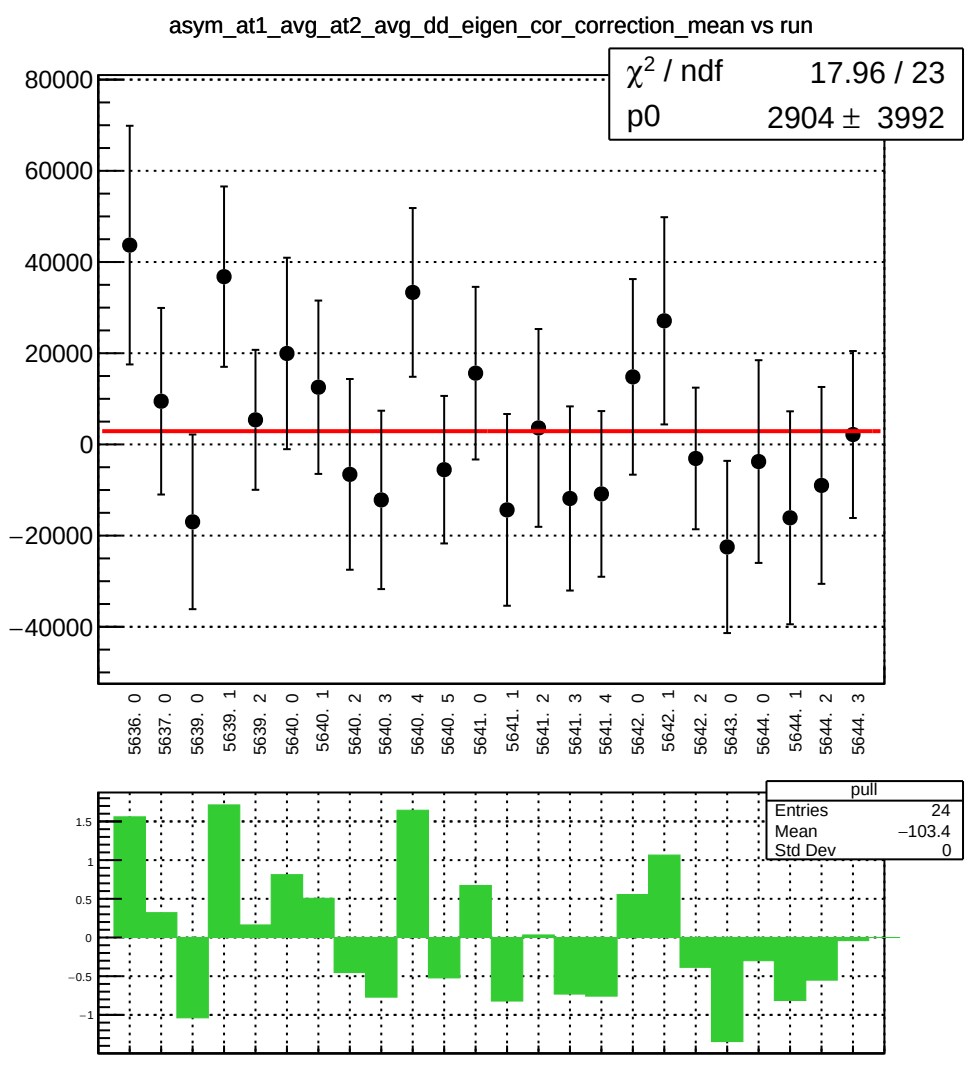
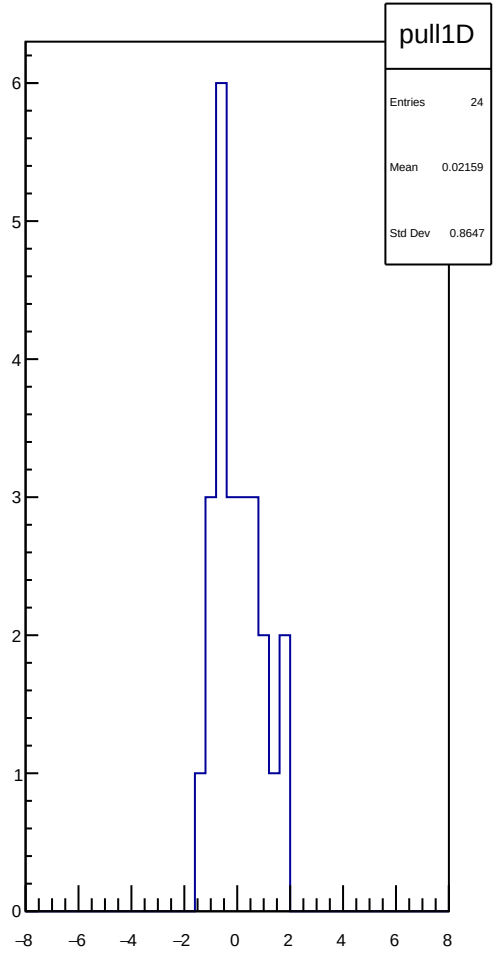
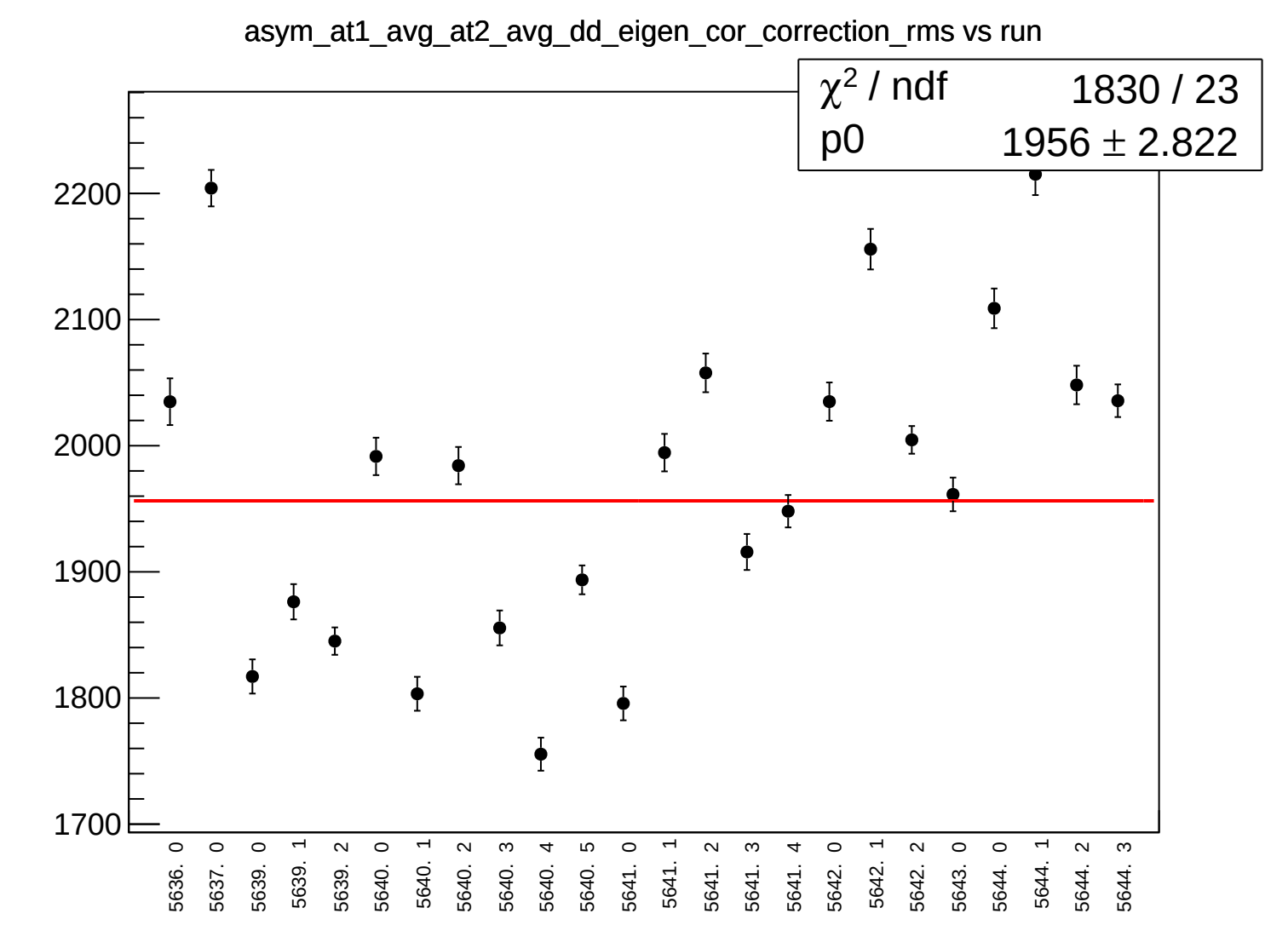
5644. 2
5644. 3

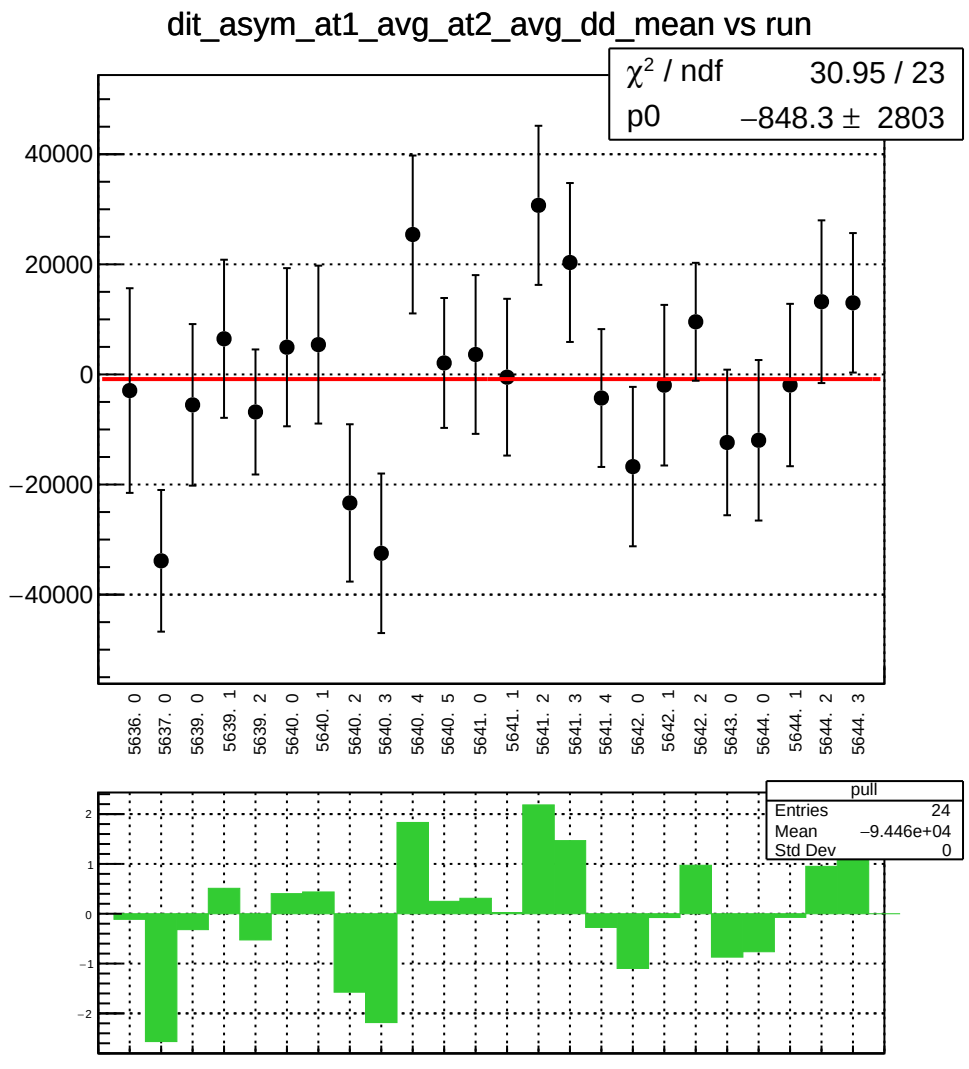

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 32.21 / 23
p0 −972.1± 2789
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 447
Std Dev 0
pull1D
Entries 24
Mean 0.004526
Std Dev 1.158

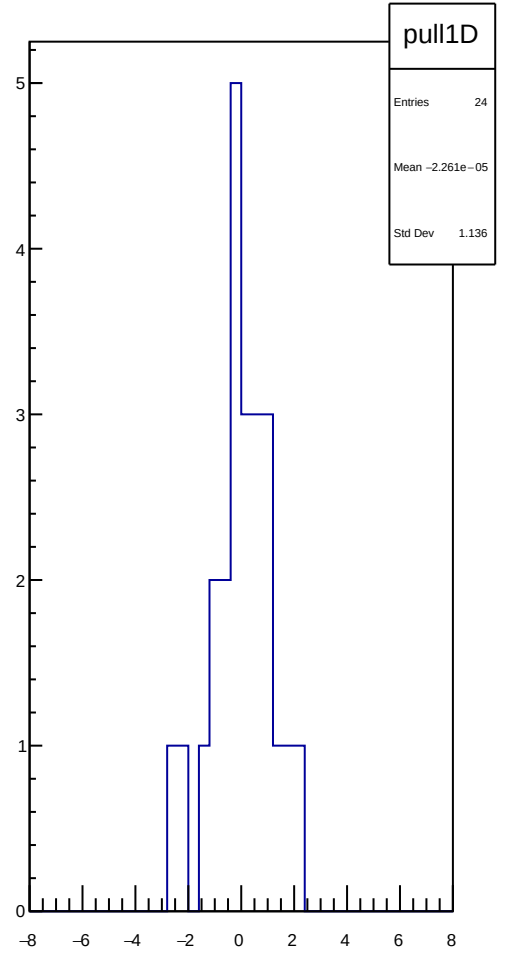

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 94.98 / 23
p0 1369 ± 1.972
1460
1440
1420
1400
1380
1360
1340
1320
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

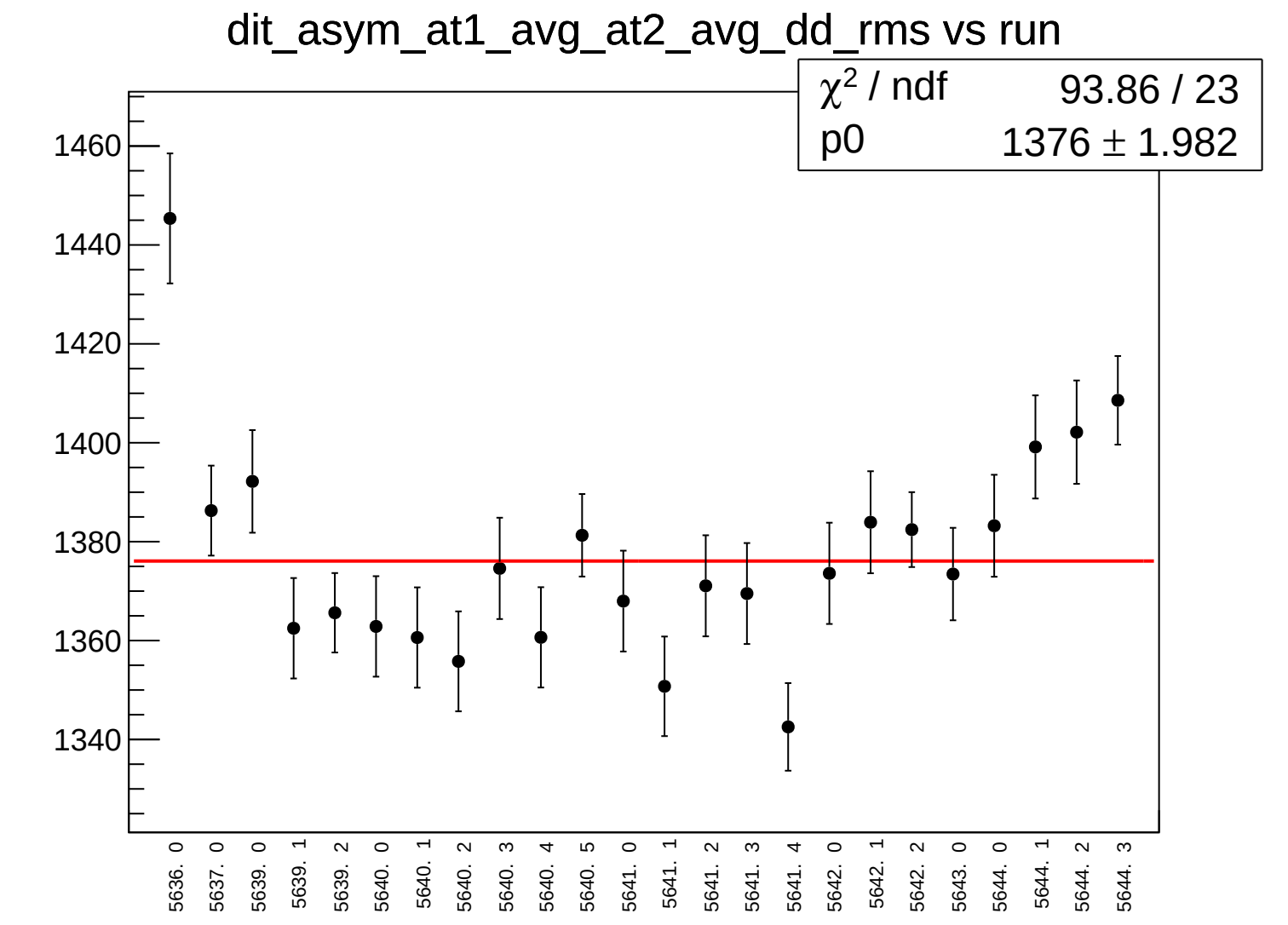

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 17.96 / 23
p0 2904 ± 3992
80000
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −103.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1

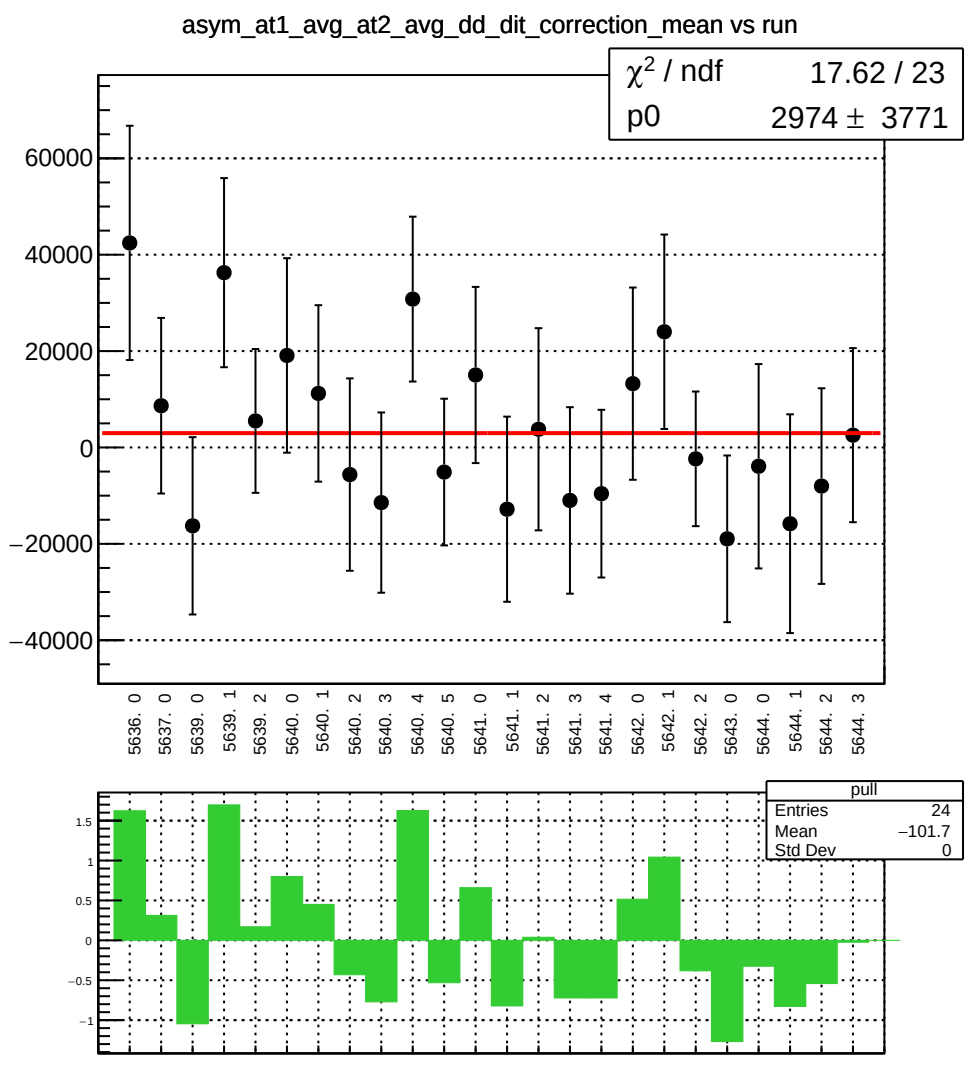

pull1D
Entries 24
Mean 0.02159
Std Dev 0.8647
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

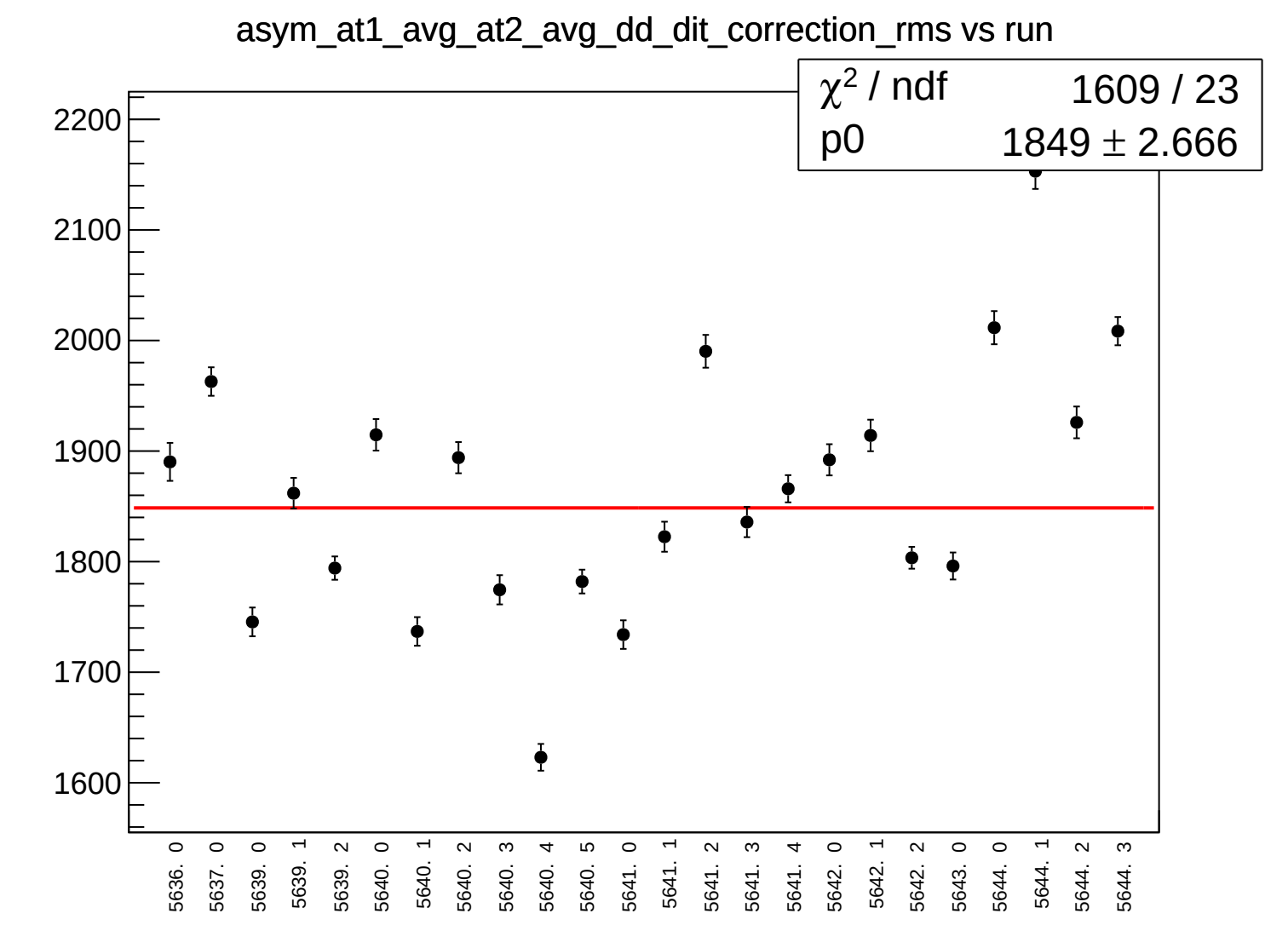

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1830 / 23
p0 1956 ± 2.822
2200
2100
2000
1900
1800
1700
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

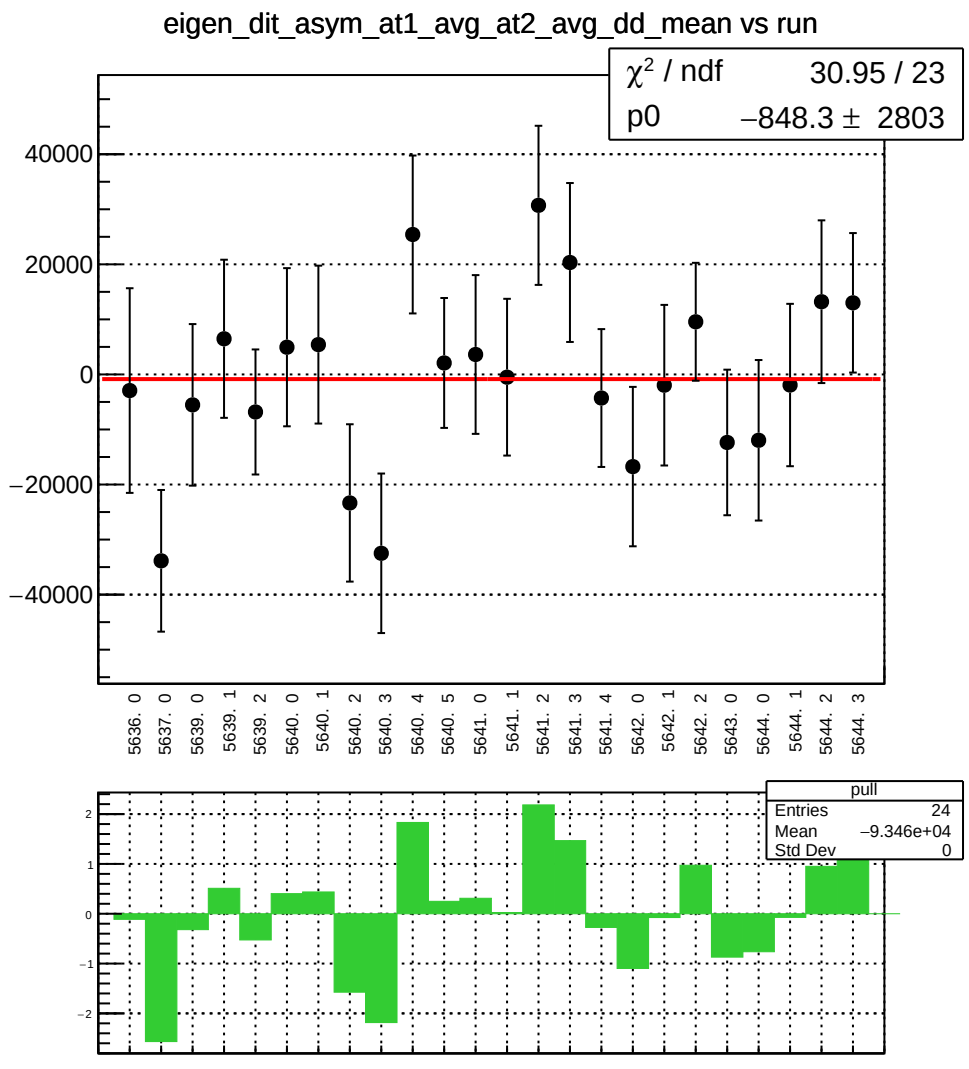

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 30.95 / 23
p0 −848.3 ± 2803
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −9.446e+04
Std Dev 0
2
1
0
−1
−2

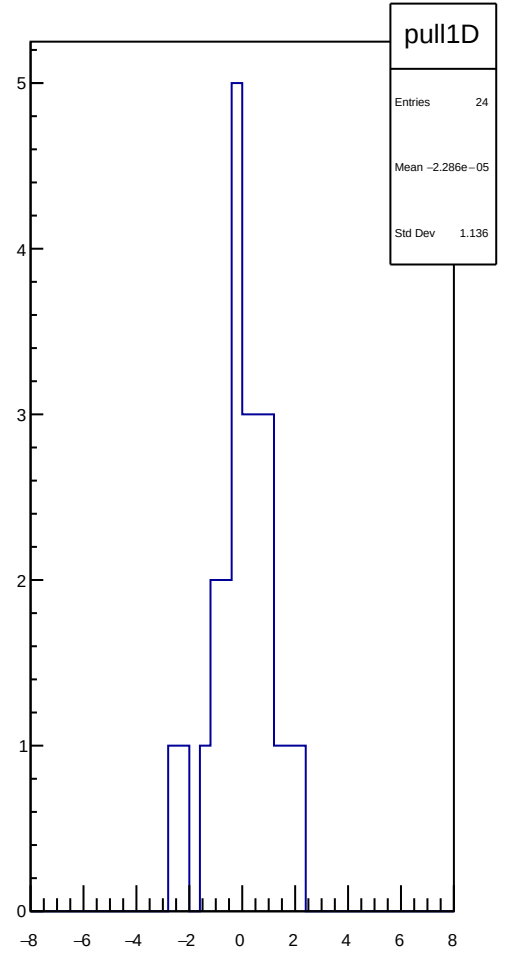

pull1D
Entries 24
Mean −2.261e−05
Std Dev 1.136
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

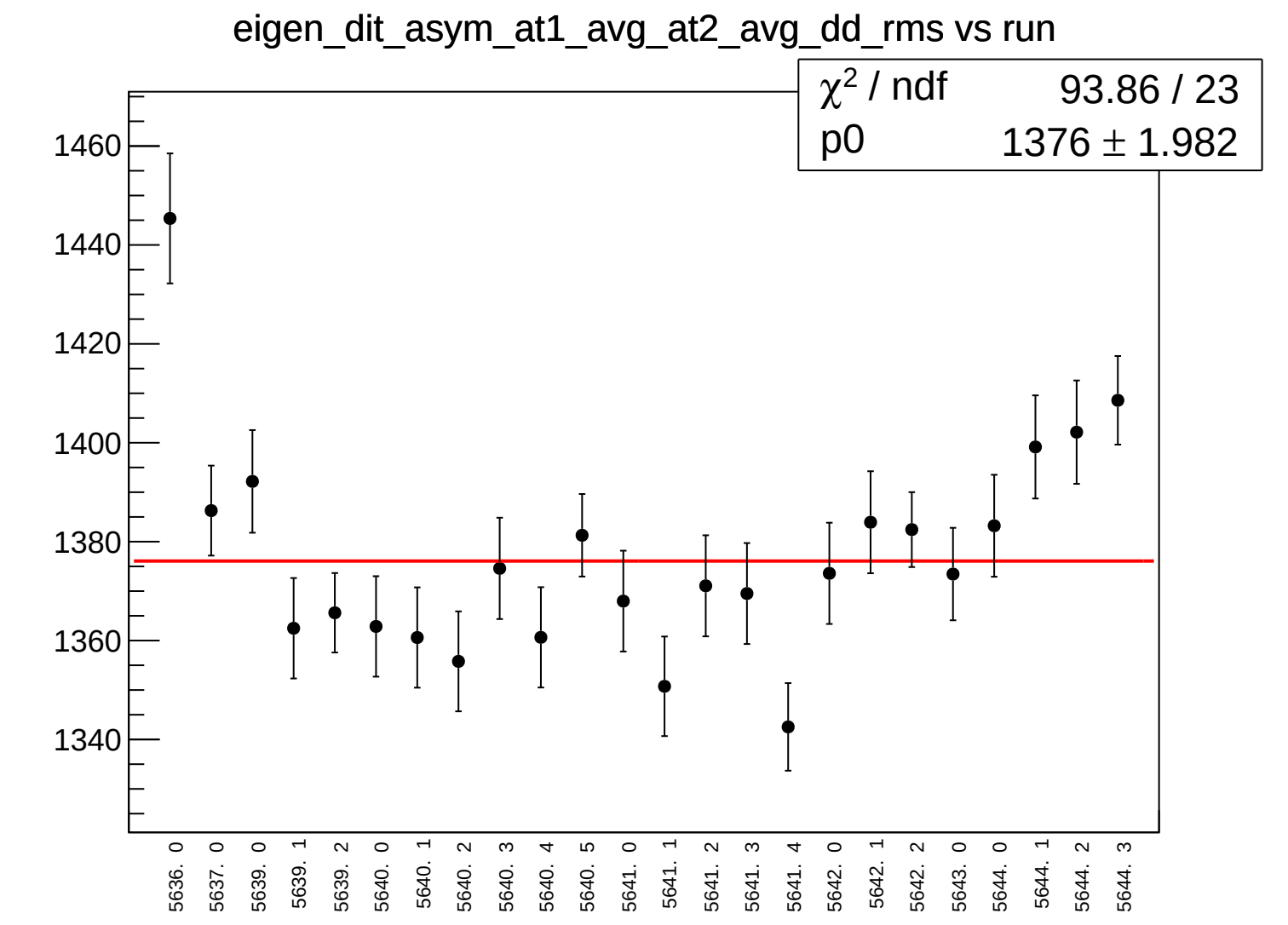

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 93.86 / 23
p0 1376 ± 1.982
1460
1440
1420
1400
1380
1360
1340
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

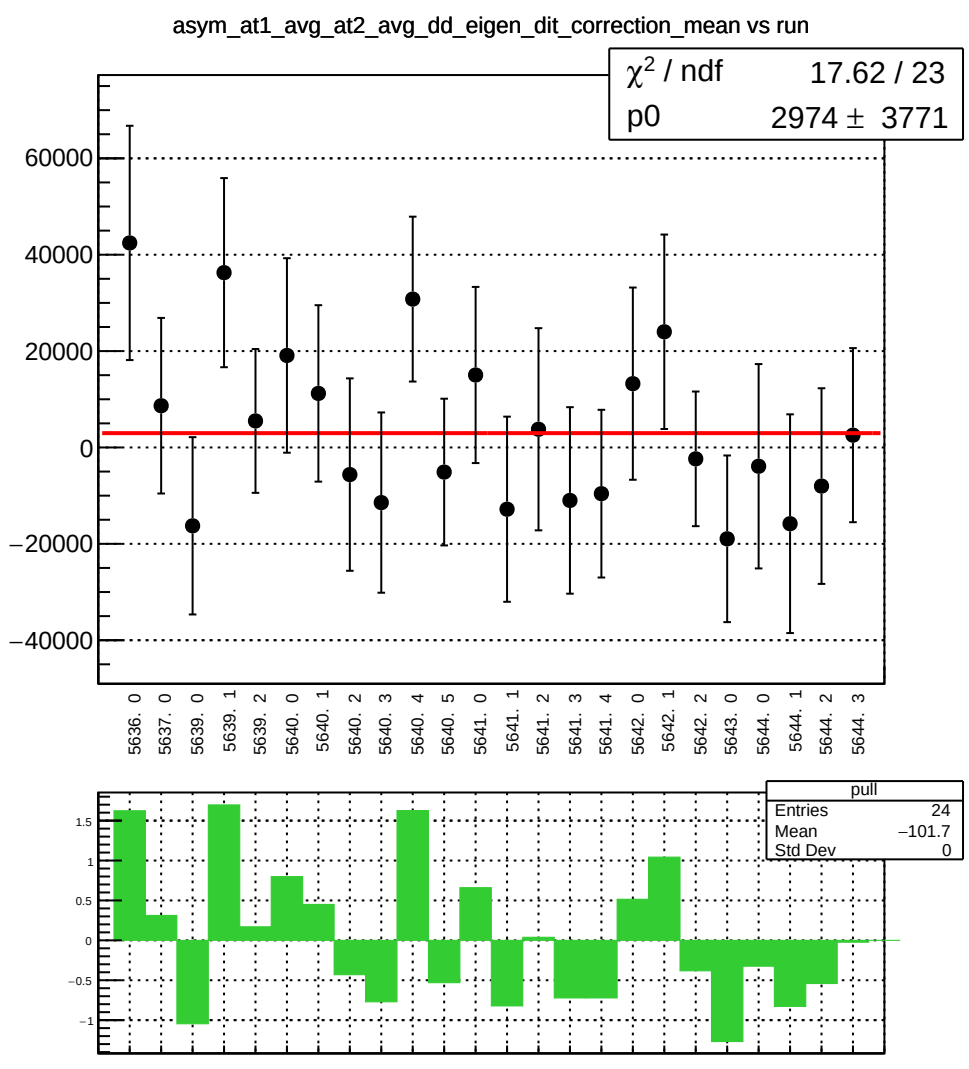

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
χ² / ndf 17.62 / 23
p0 2974 ± 3771
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −101.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.02183
Std Dev 0.8567
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

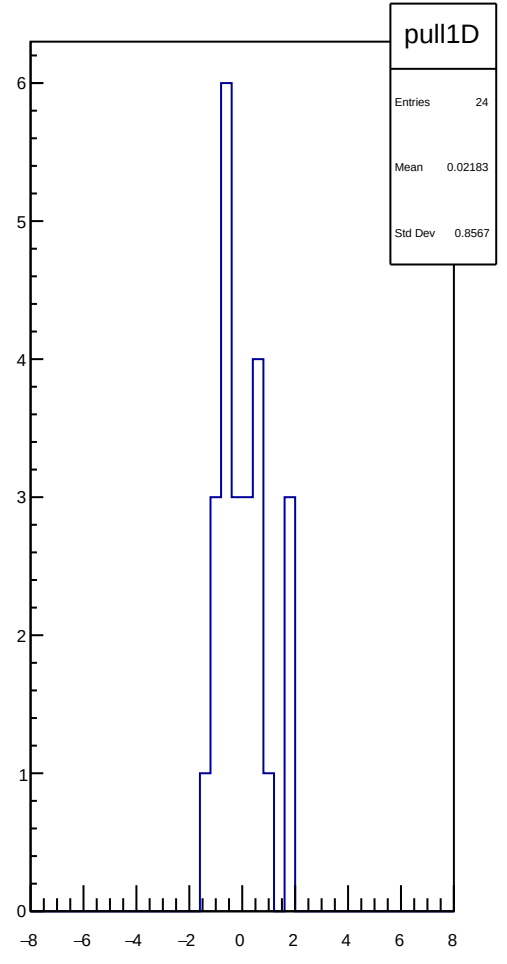

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 1609 / 23
p0 1849 ± 2.666
2200
2100
2000
1900
1800
1700
1600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

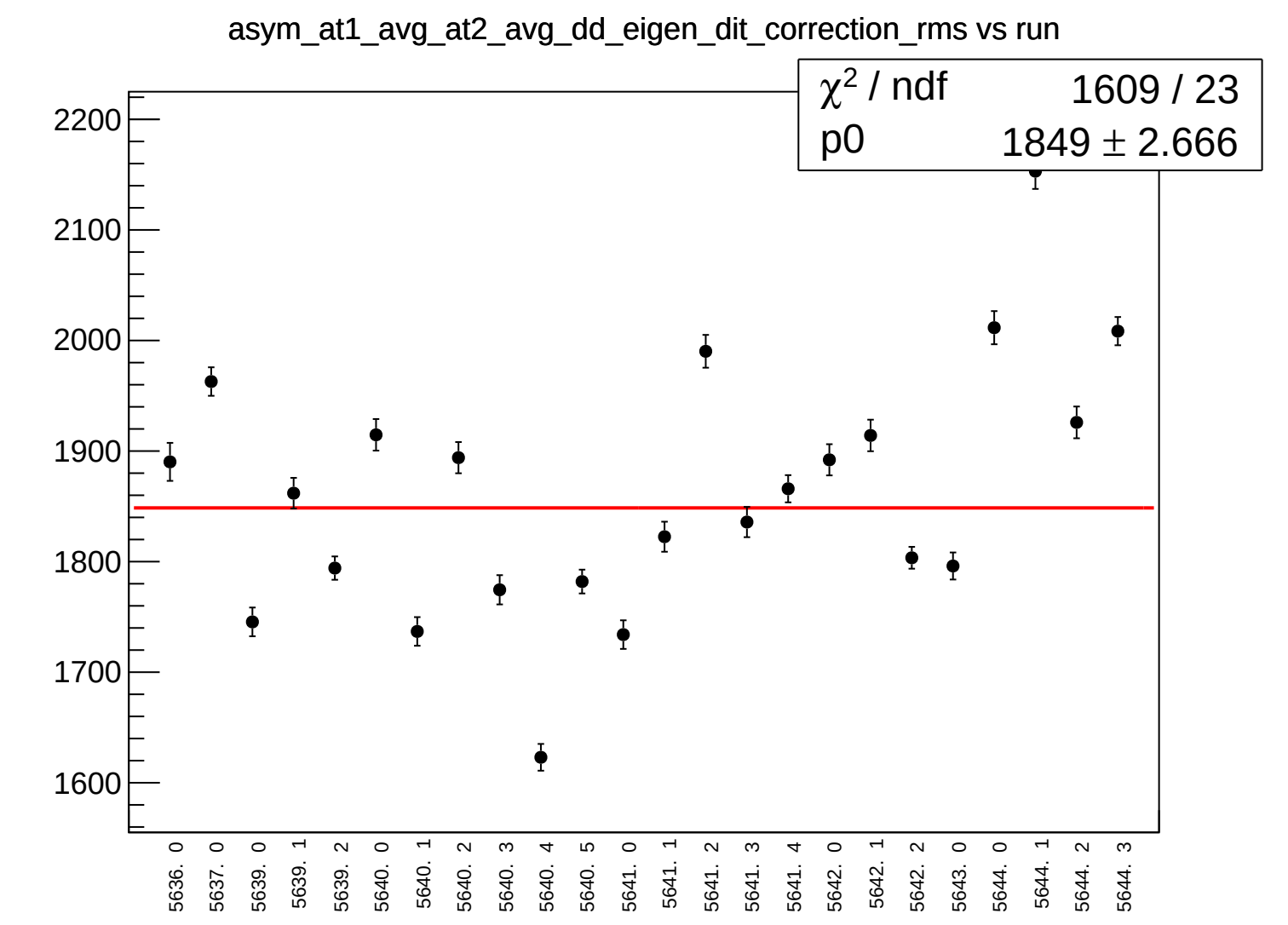

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 30.95 / 23
p0 −848.3 ± 2803
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −9.346e+04
Std Dev 0
2
1
0
−1
−2

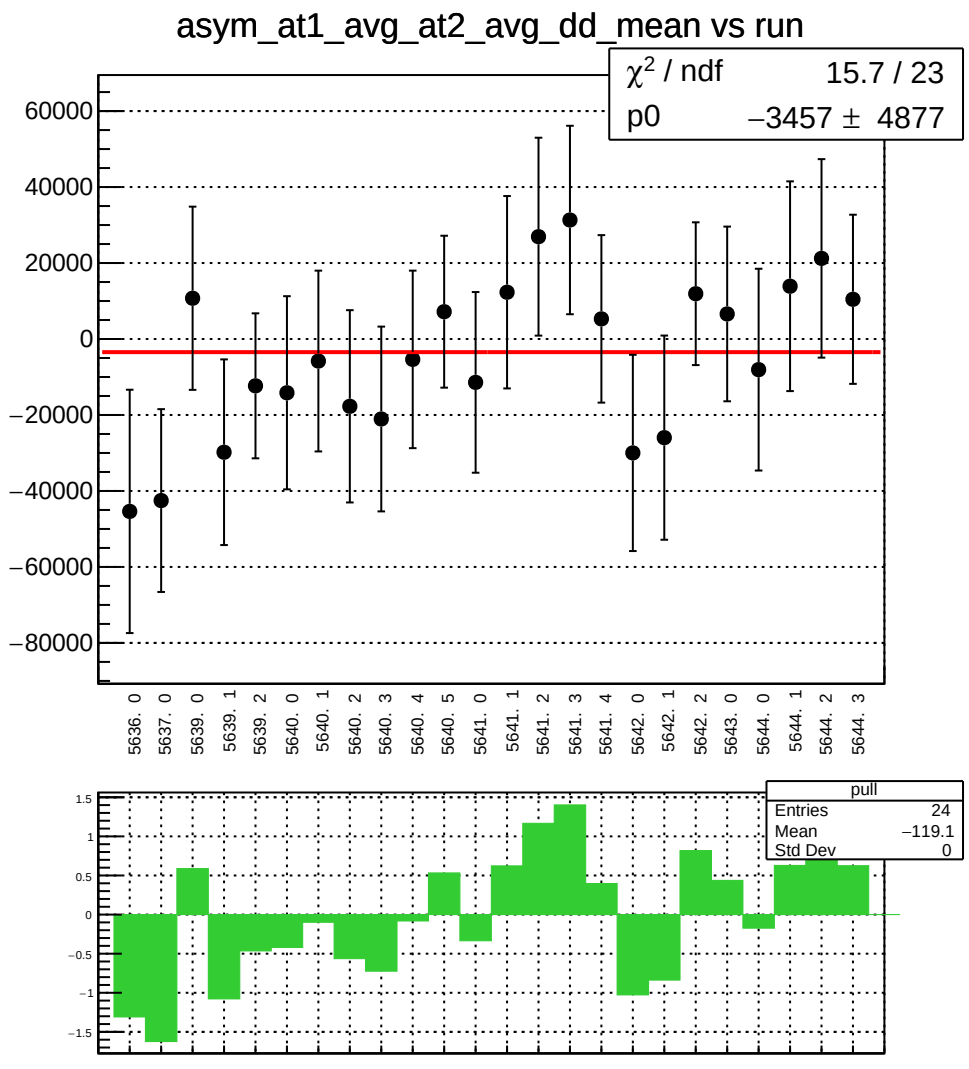

pull1D
Entries 24
Mean −2.286e−05
Std Dev 1.136
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

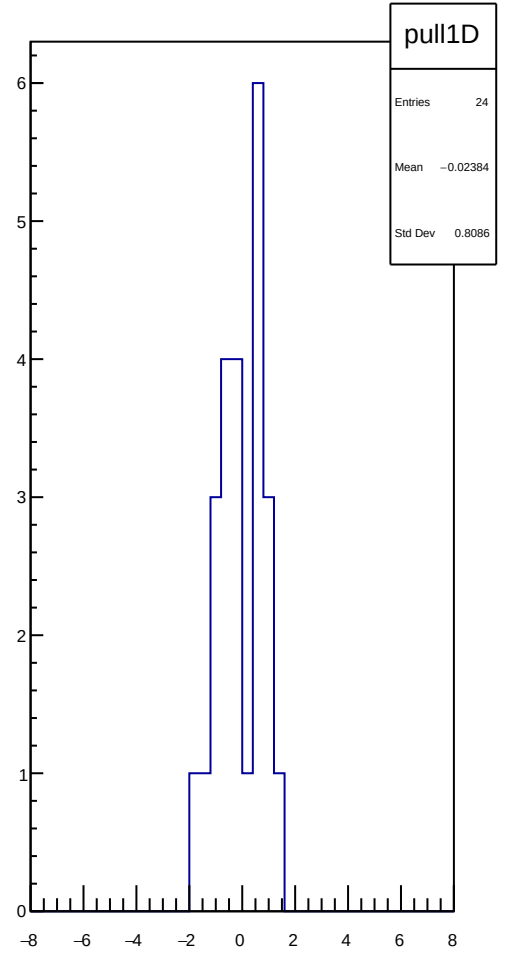

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 93.86 / 23
p0 1376 ± 1.982
1460
1440
1420
1400
1380
1360
1340
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

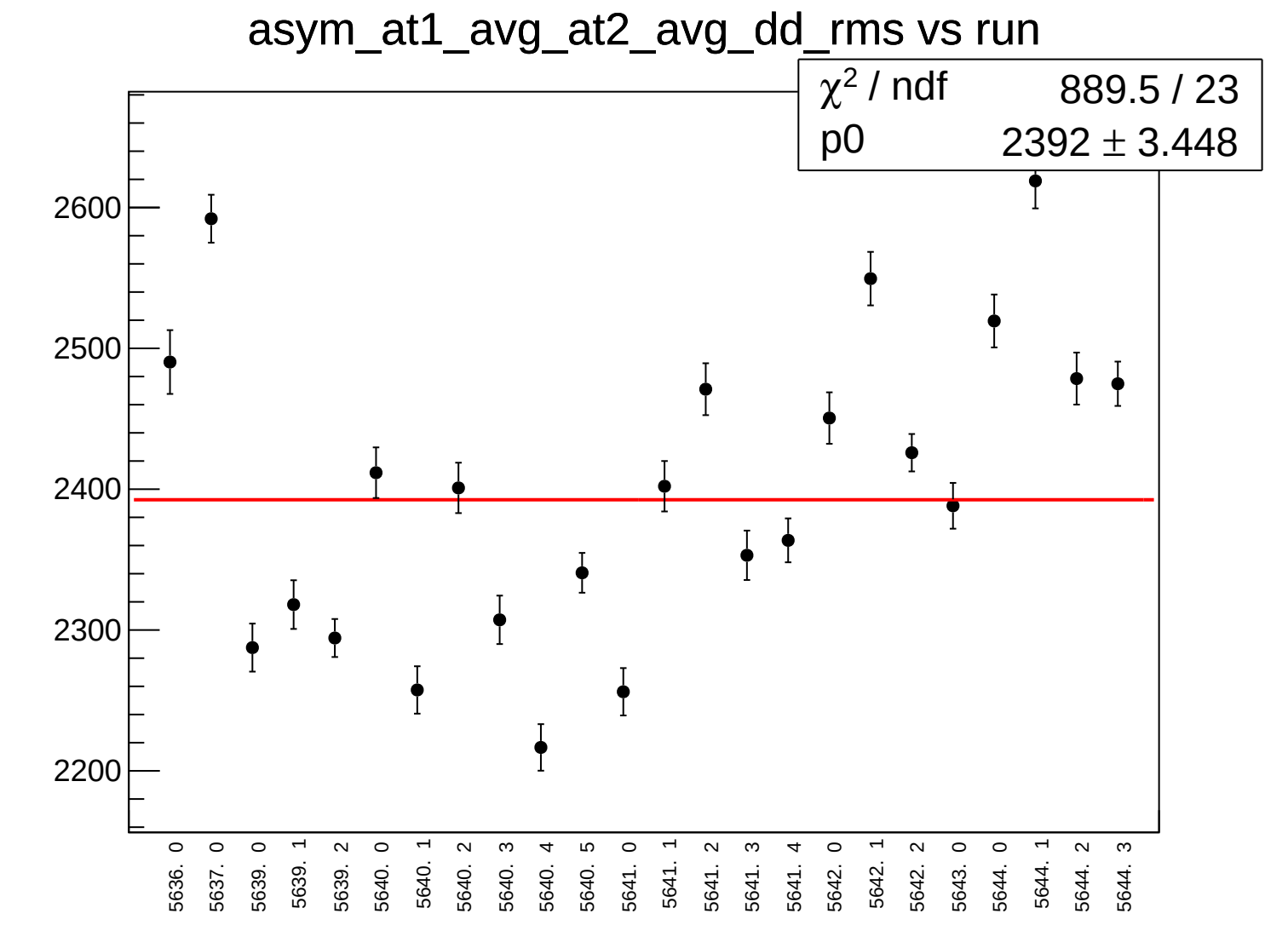

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 17.62 / 23
p0 2974 ± 3771
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −101.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1

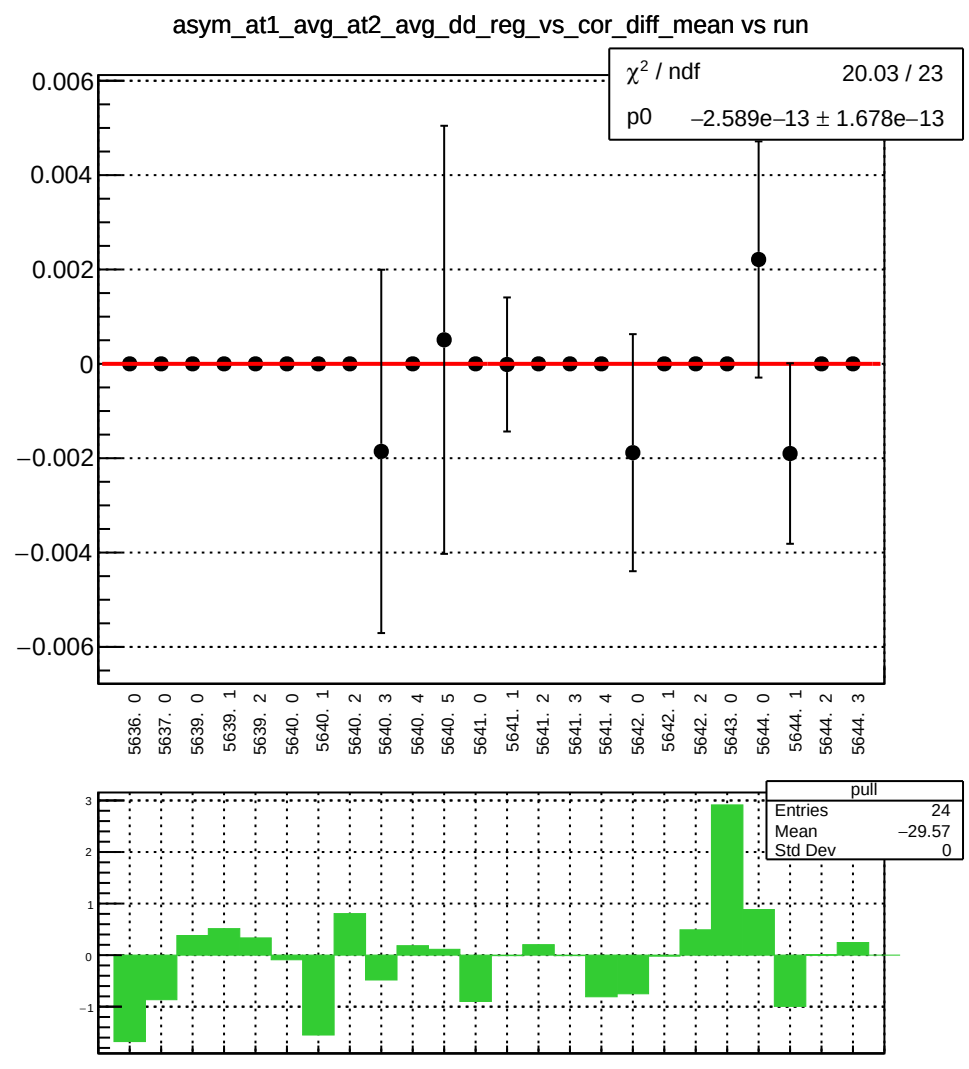

pull1D
Entries 24
Mean 0.02183
Std Dev 0.8567
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

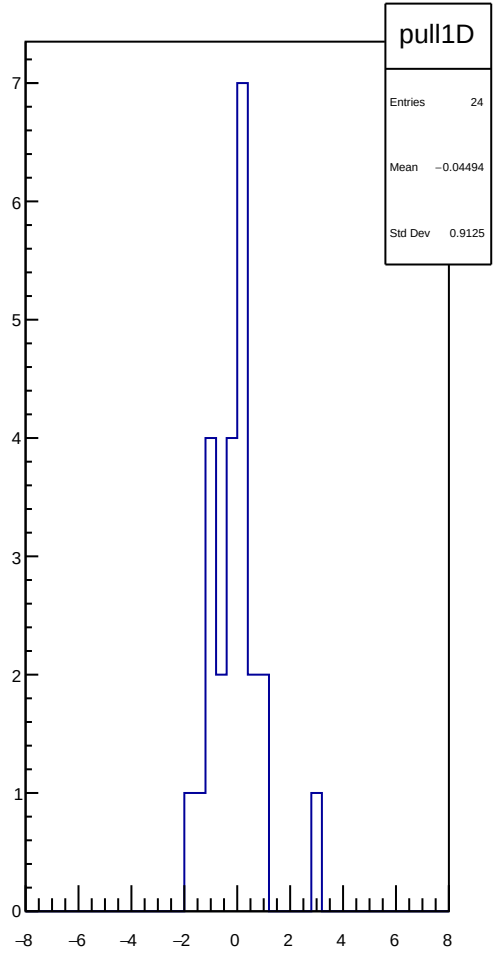

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1609 / 23
p0 1849 ± 2.666
2200
2100
2000
1900
1800
1700
1600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

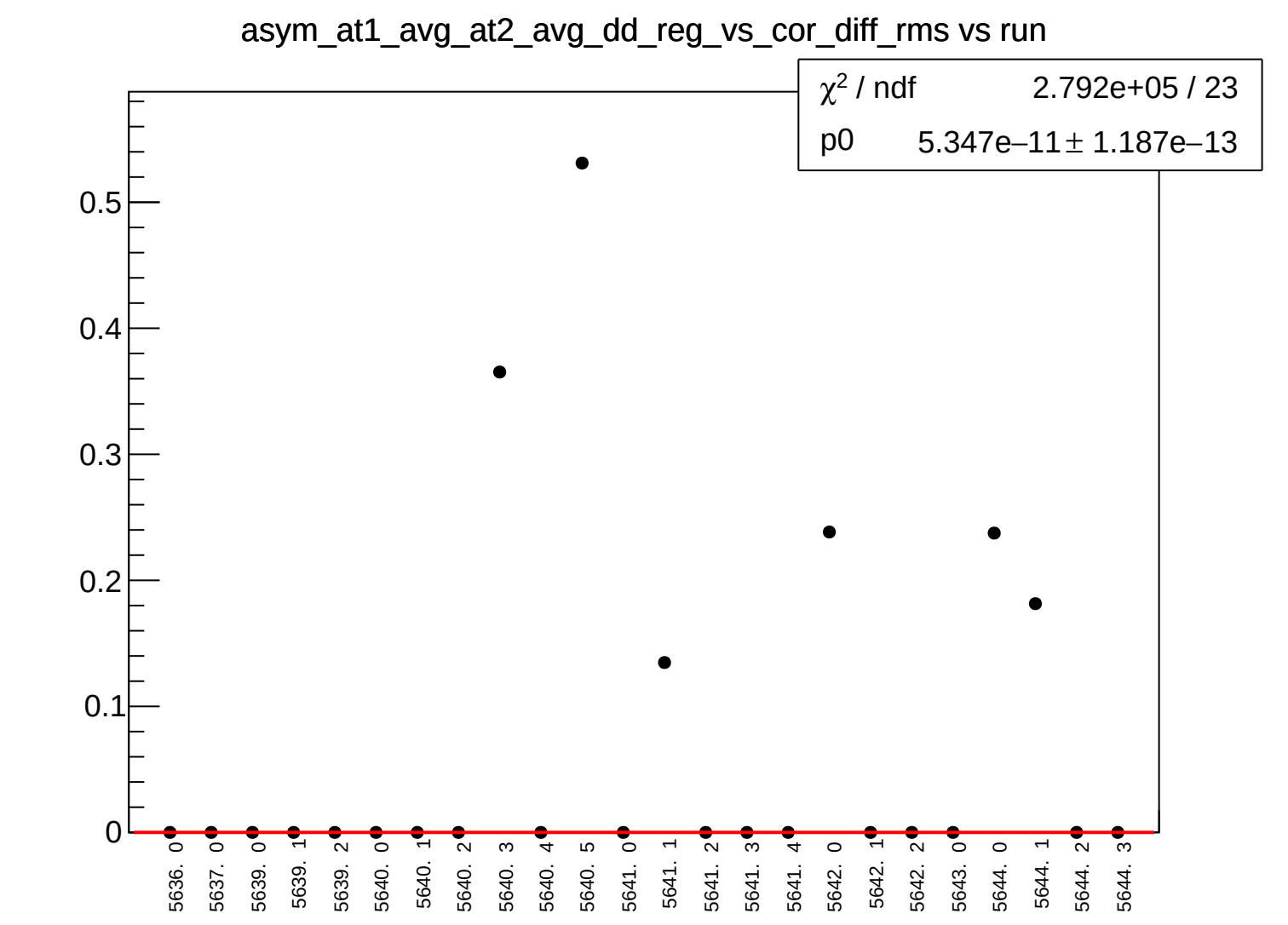

asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 15.7 / 23
p0 −3457 ± 4877
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −119.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

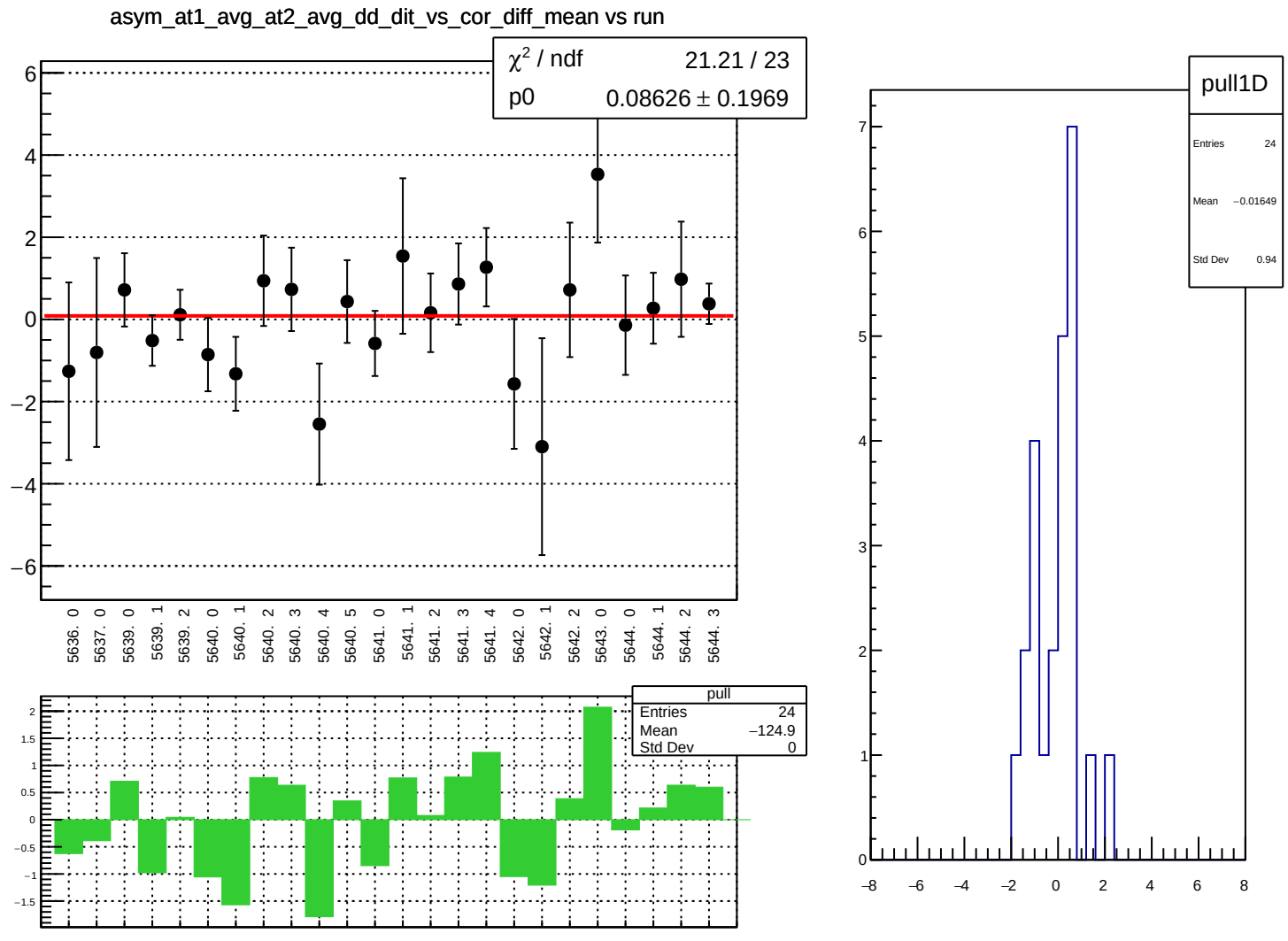

pull1D
Entries 24
Mean −0.02384
Std Dev 0.8086
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

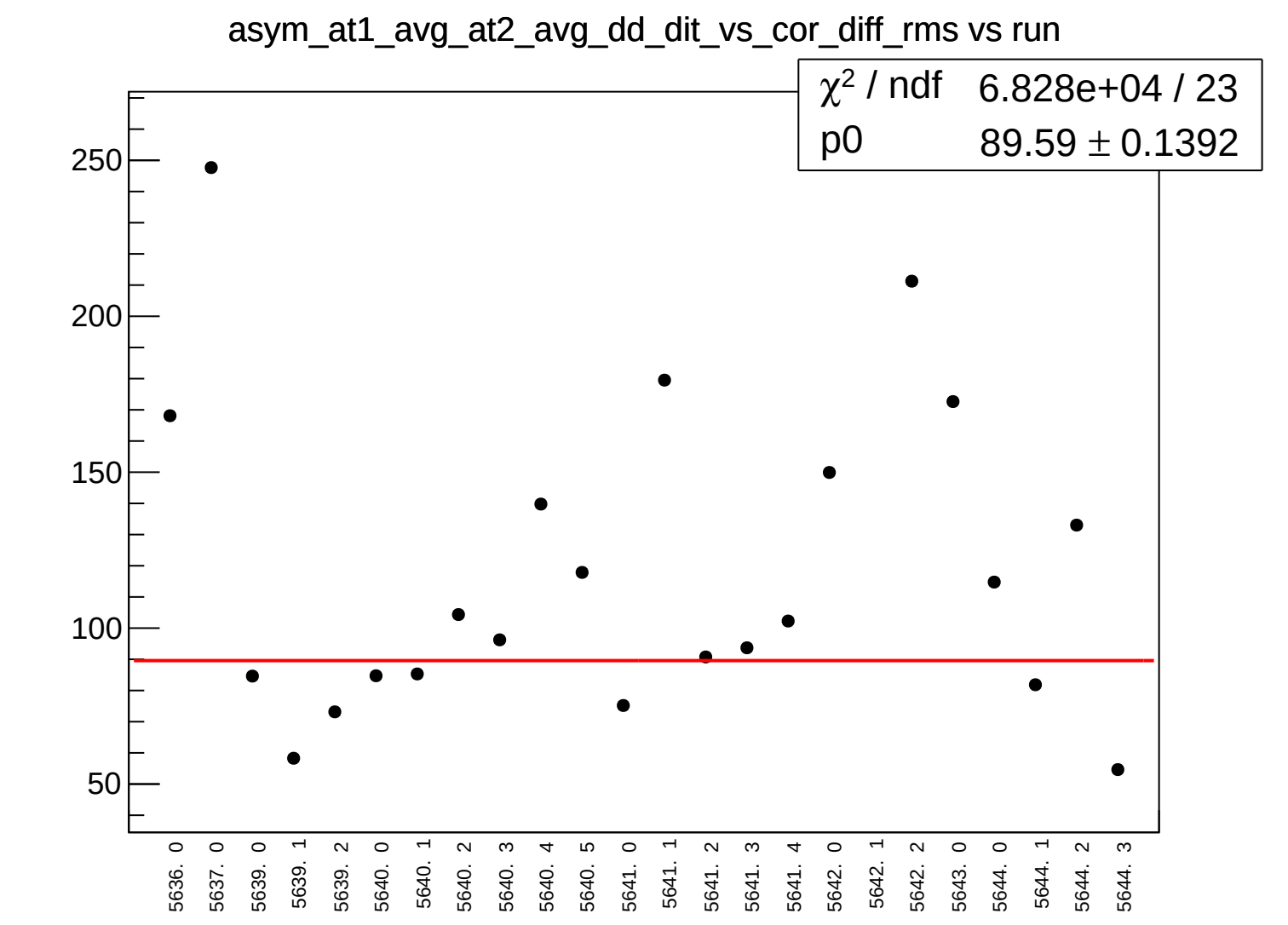

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 889.5 / 23
p0 2392 ± 3.448
2600
2500
2400
2300
2200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

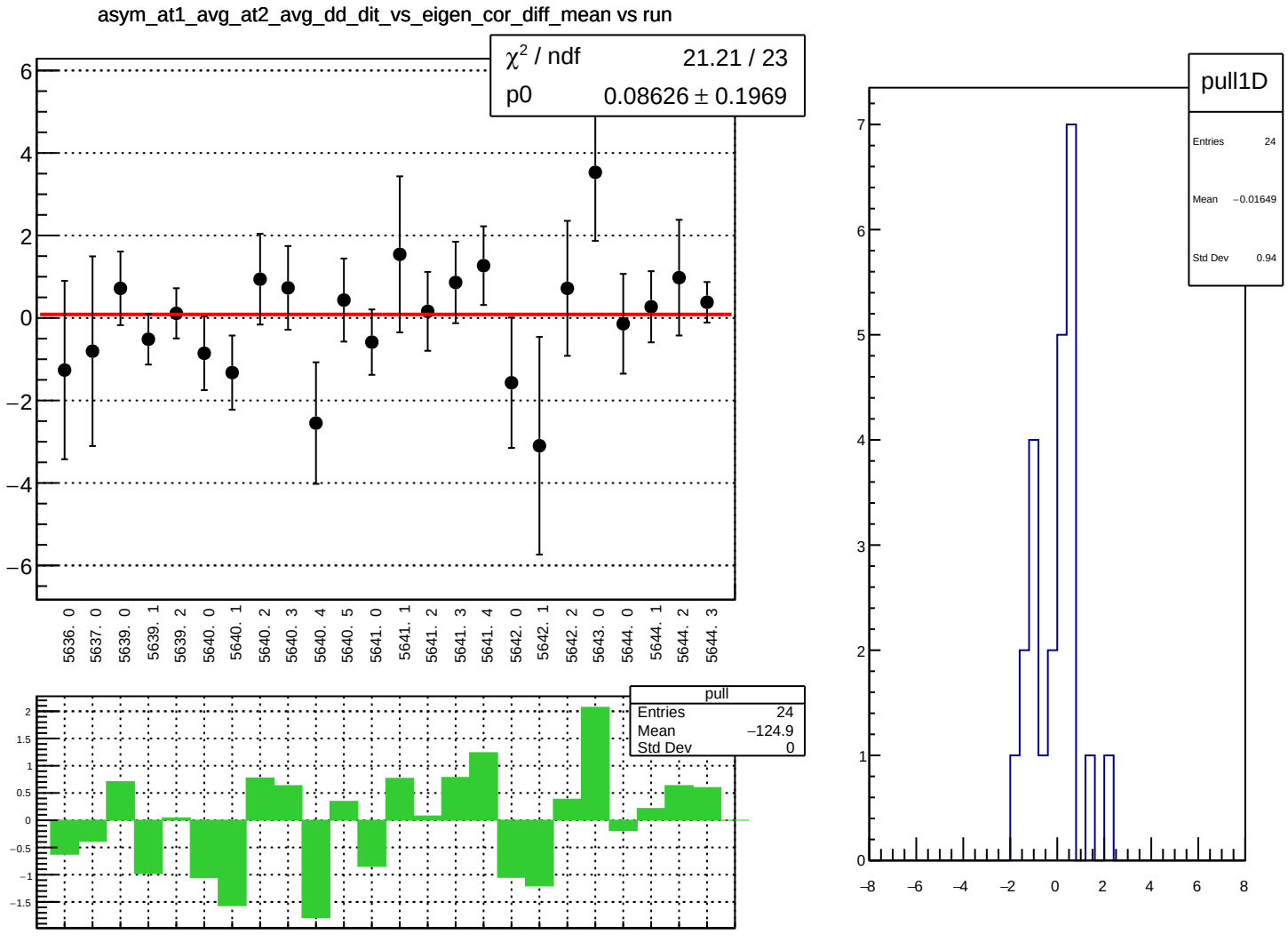

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 20.03 / 23
p0 −2.589e−13 ± 1.678e−13
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −29.57
Std Dev 0
3
2
1
0
−1

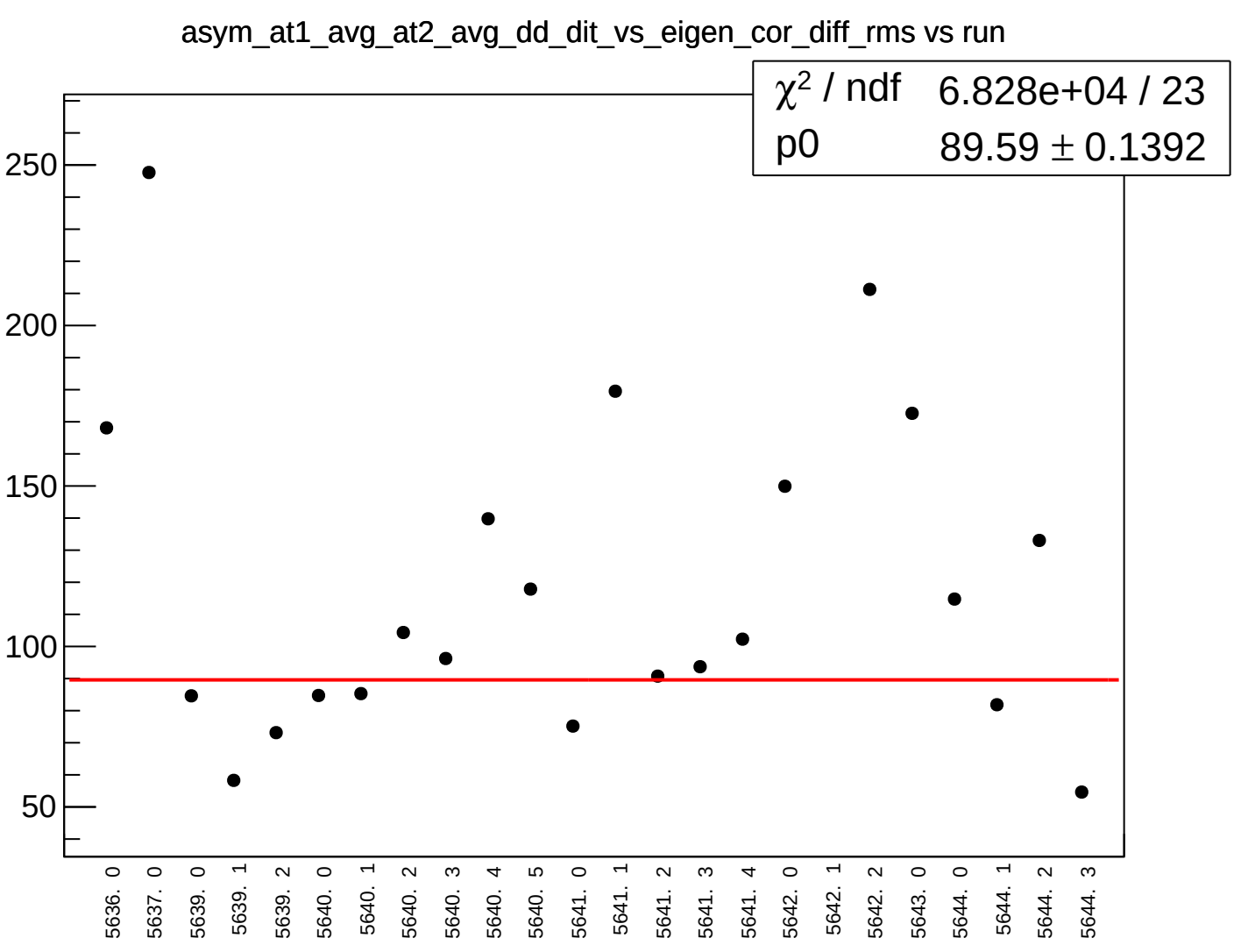

pull1D
Entries 24
Mean −0.04494
Std Dev 0.9125
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

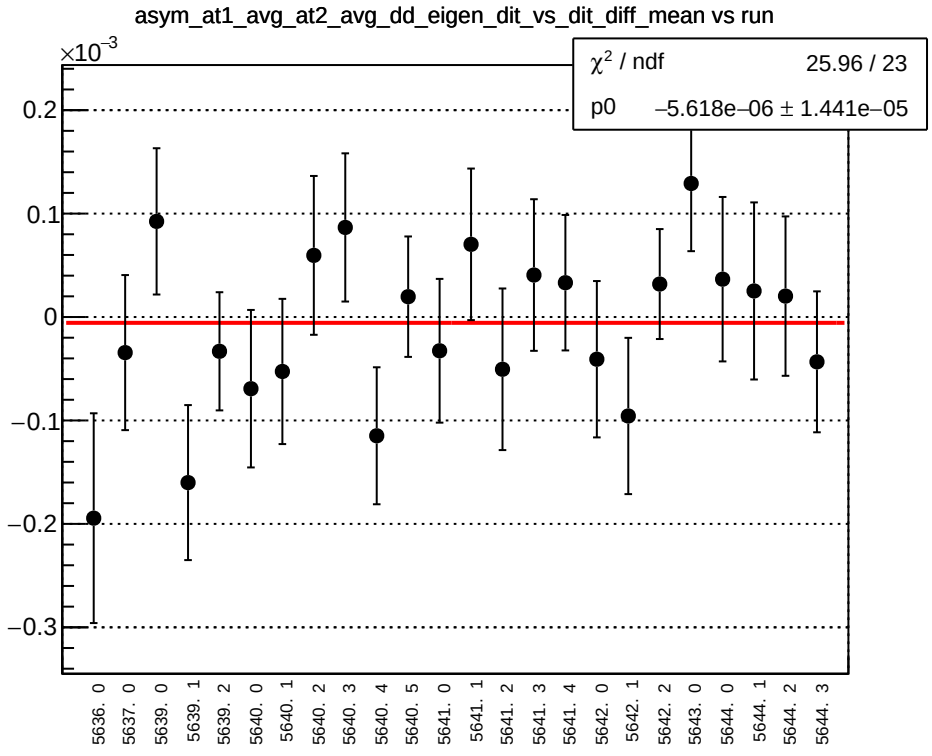

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.792e+05 / 23
p0 5.347e−11 ± 1.187e−13
0.5
0.4
0.3
0.2
0.1
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

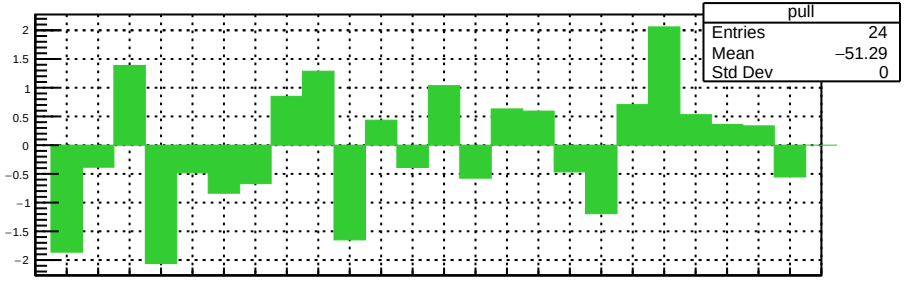

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 21.21 / 23
p0 0.08626 ± 0.1969
6
4
2
0
−2
−4
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −124.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.01649
Std Dev 0.94
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

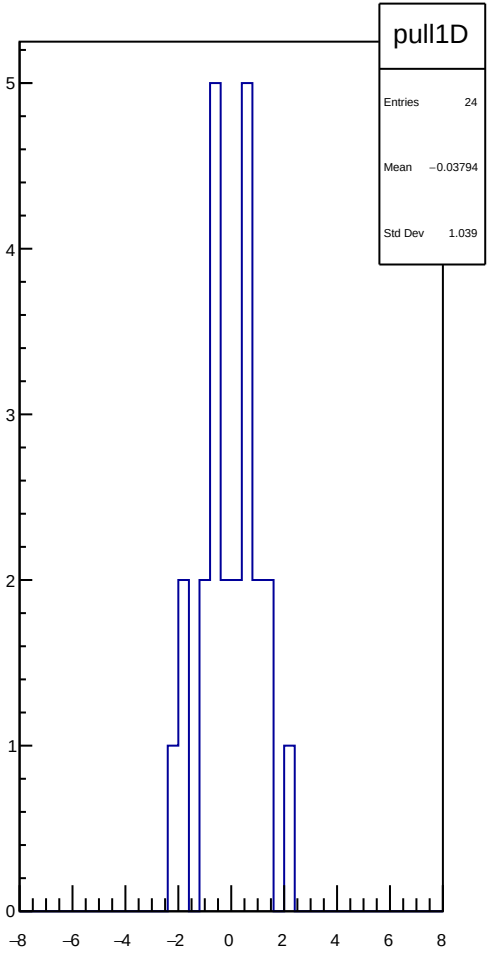

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.828e+04 / 23
p0 89.59 ± 0.1392
250
200
150
100
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

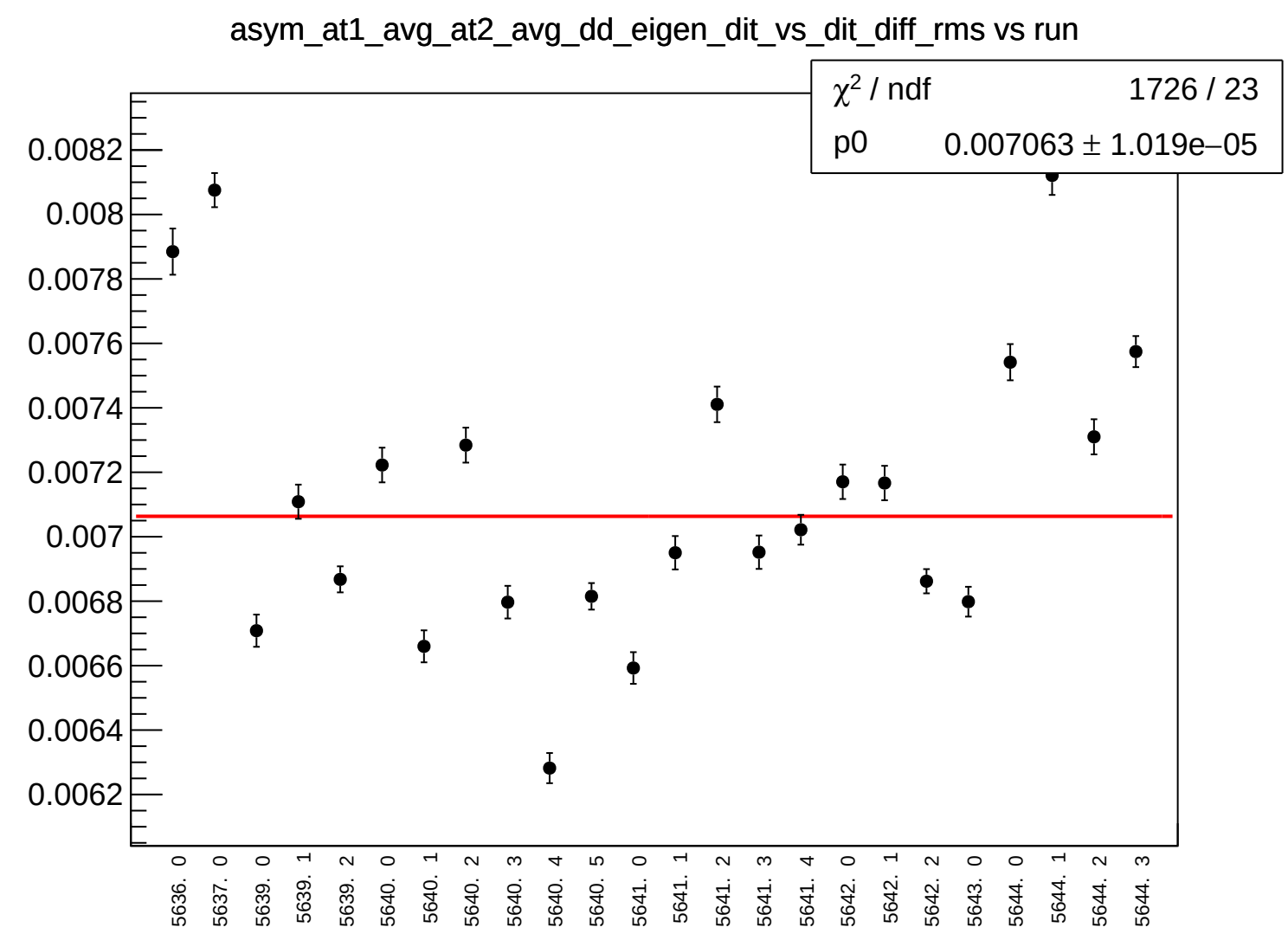

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 21.21 / 23
p0 0.08626 ± 0.1969
6
4
2
0
−2
−4
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −124.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.01649
Std Dev 0.94
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

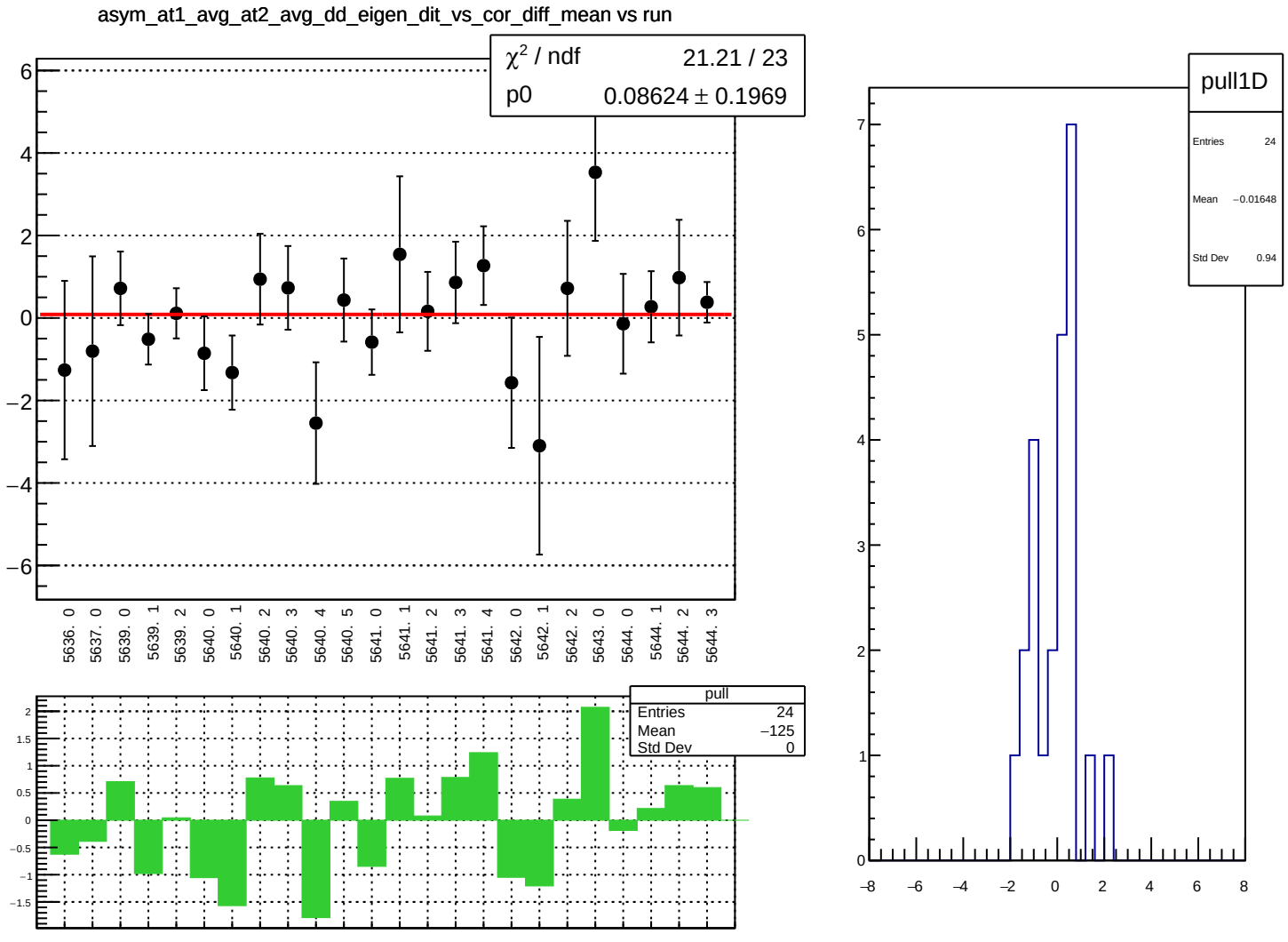

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.828e+04 / 23
p0 89.59 ± 0.1392
250
200
150
100
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

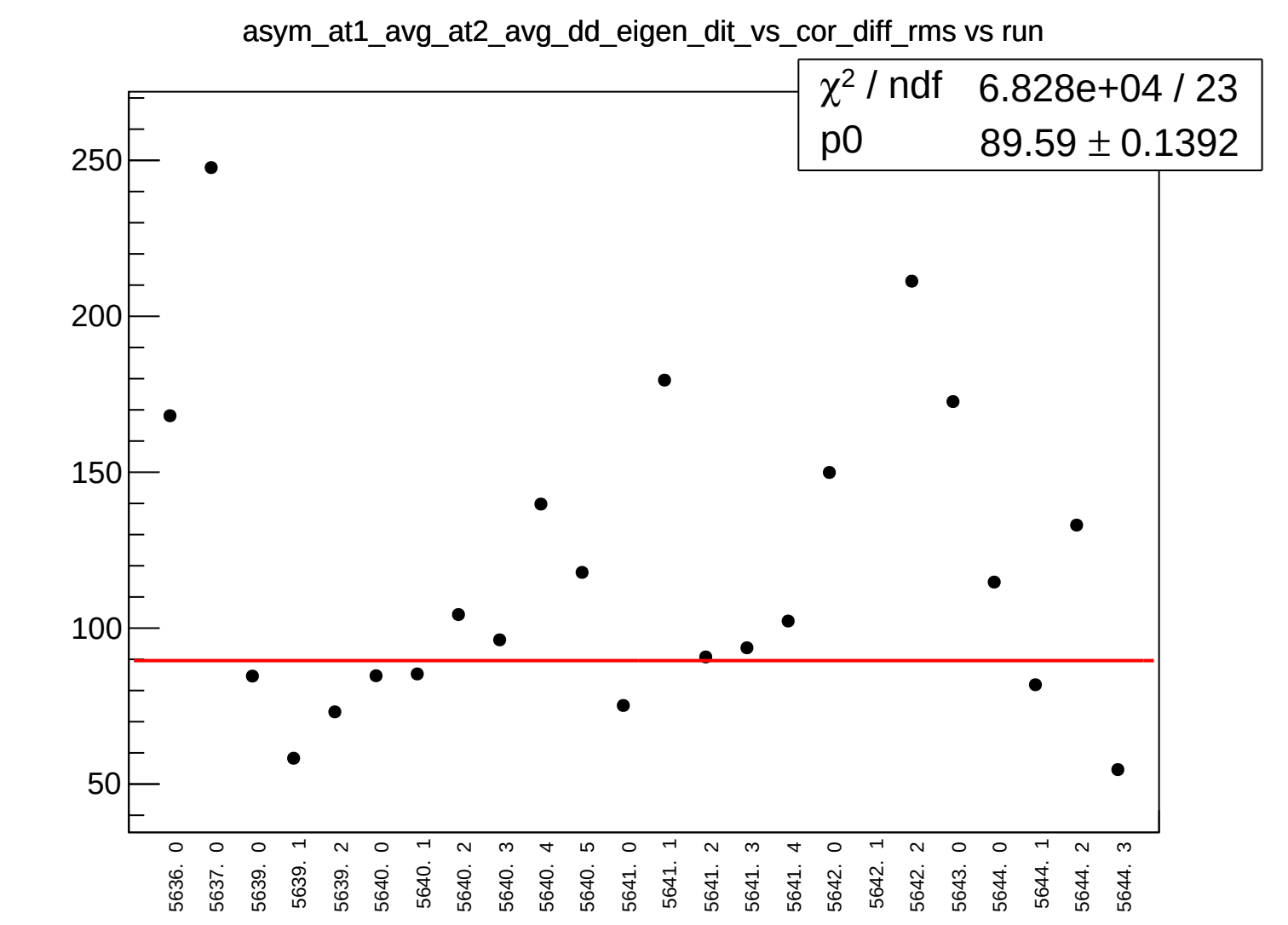

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 25.96 / 23
p0 −5.618e−06 ± 1.441e−05
0.2
0.1
0
−0.1
−0.2
−0.3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

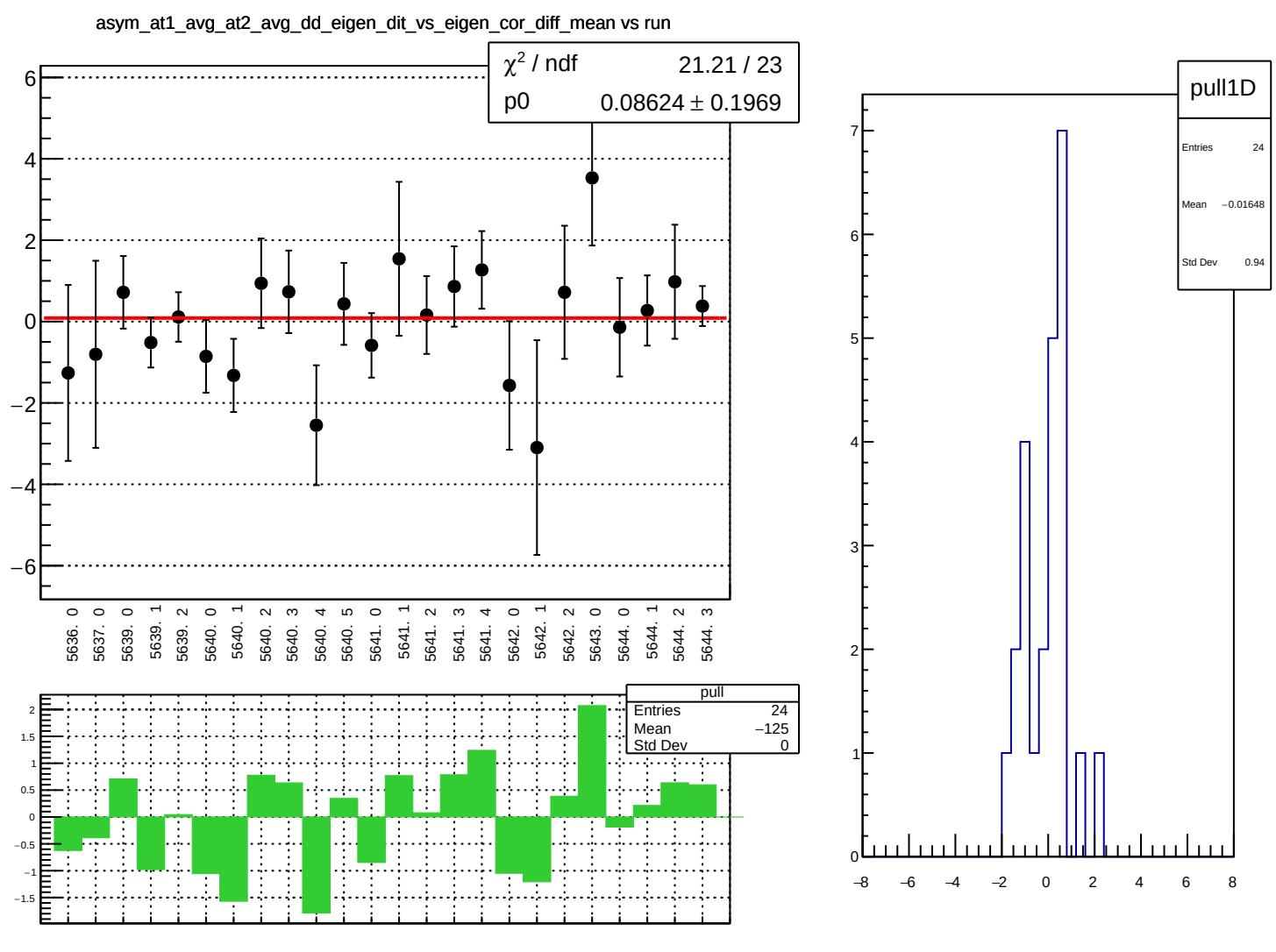

pull
Entries 24
Mean −51.29
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

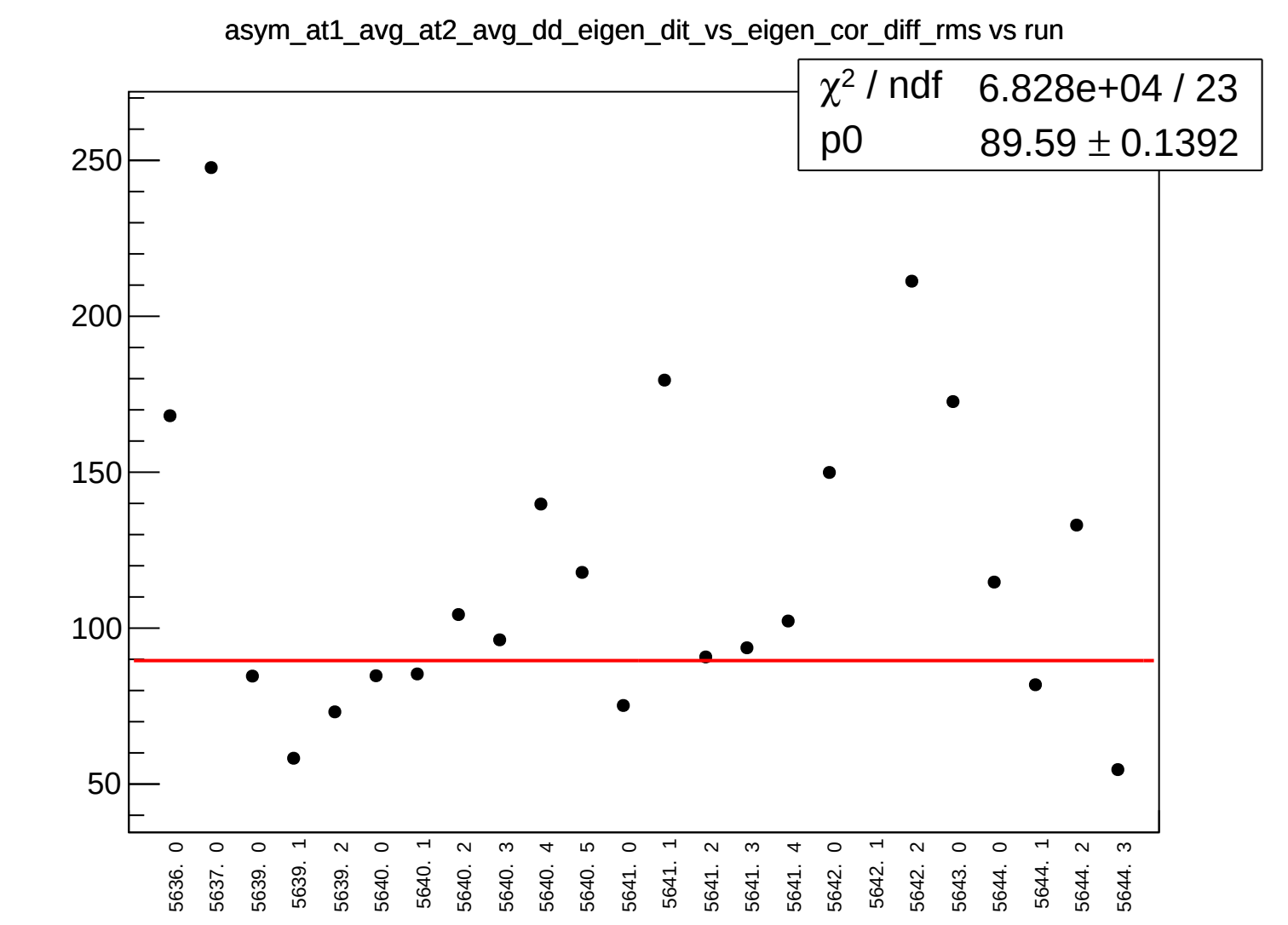

pull1D
Entries 24
Mean −0.03794
Std Dev 1.039
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

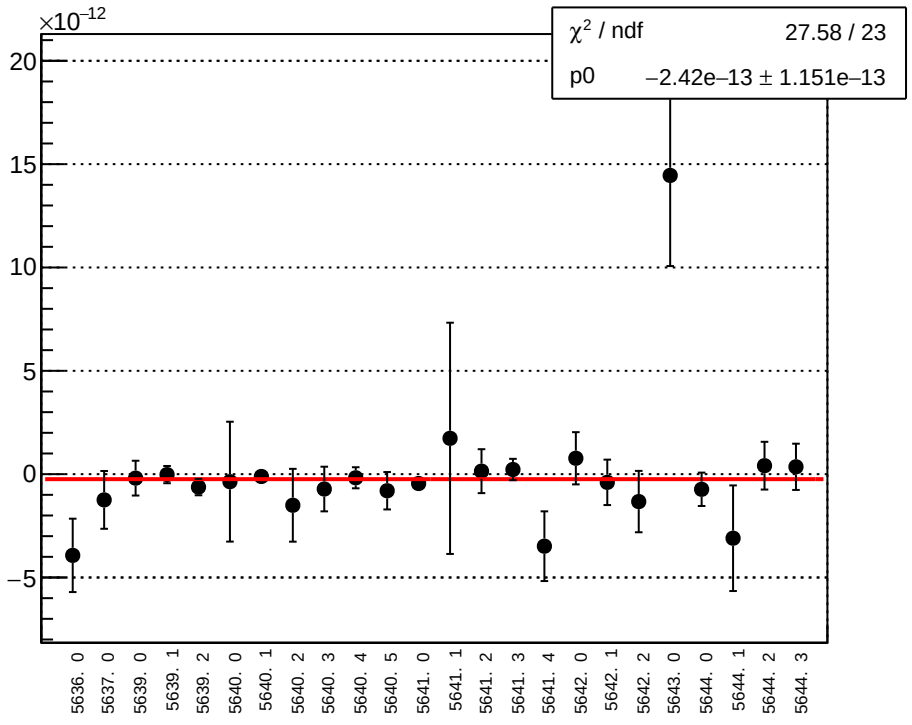

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1726 / 23
p0 0.007063 ± 1.019e−05
0.0082
0.008
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

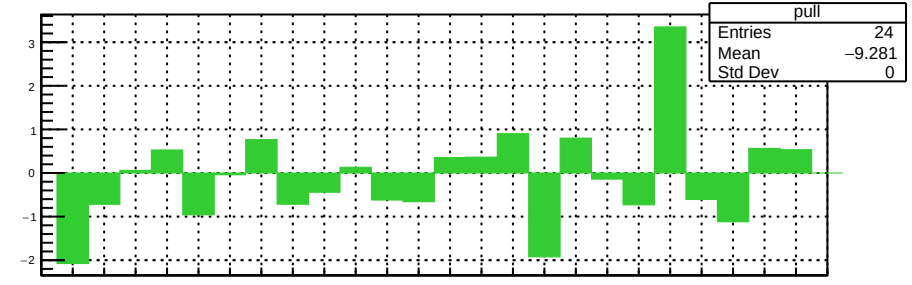

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 21.21 / 23
p0 0.08624 ± 0.1969
6
4
2
0
−2
−4
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −125
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.01648
Std Dev 0.94
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

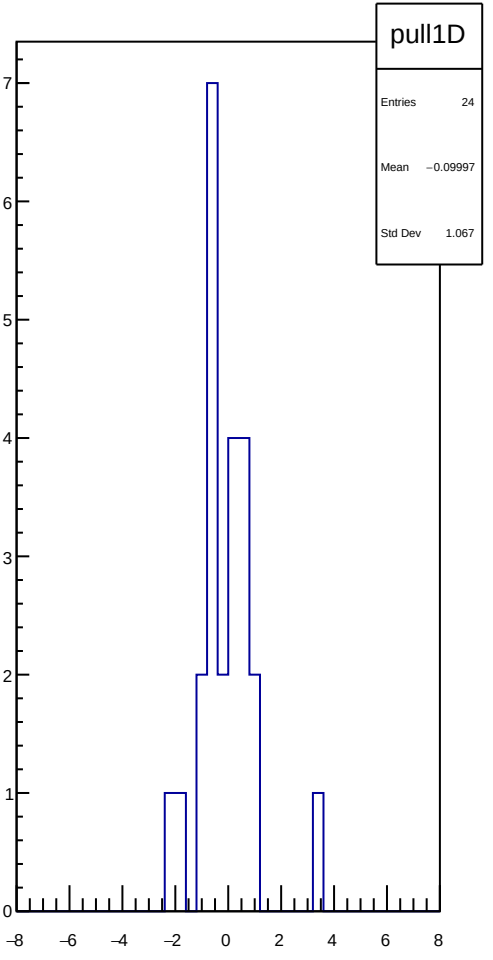

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.828e+04 / 23
p0 89.59 ± 0.1392
250
200
150
100
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

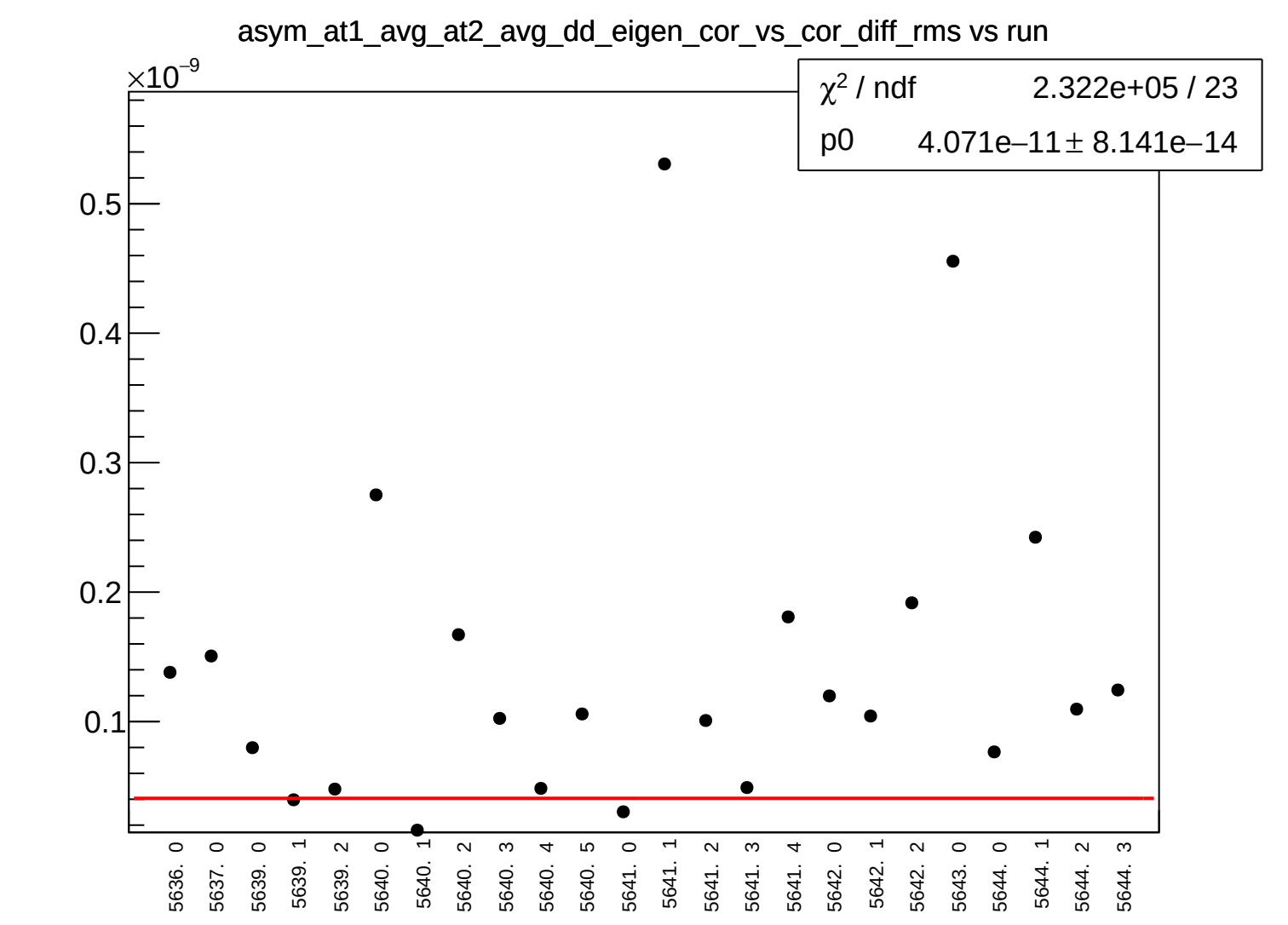

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 21.21 / 23
p0 0.08624 ± 0.1969
6
4
2
0
−2
−4
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −125
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.01648
Std Dev 0.94
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

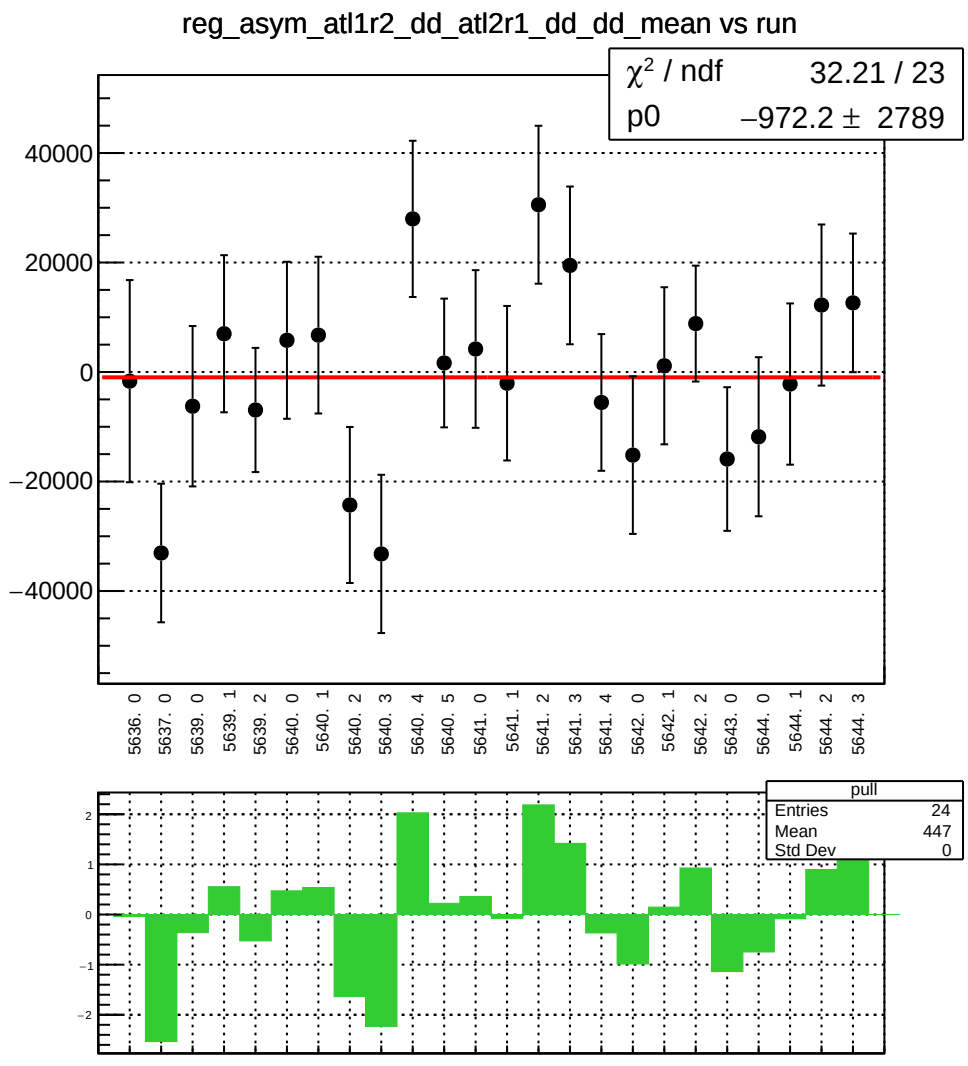

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.828e+04 / 23
p0 89.59 ± 0.1392
250
200
150
100
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

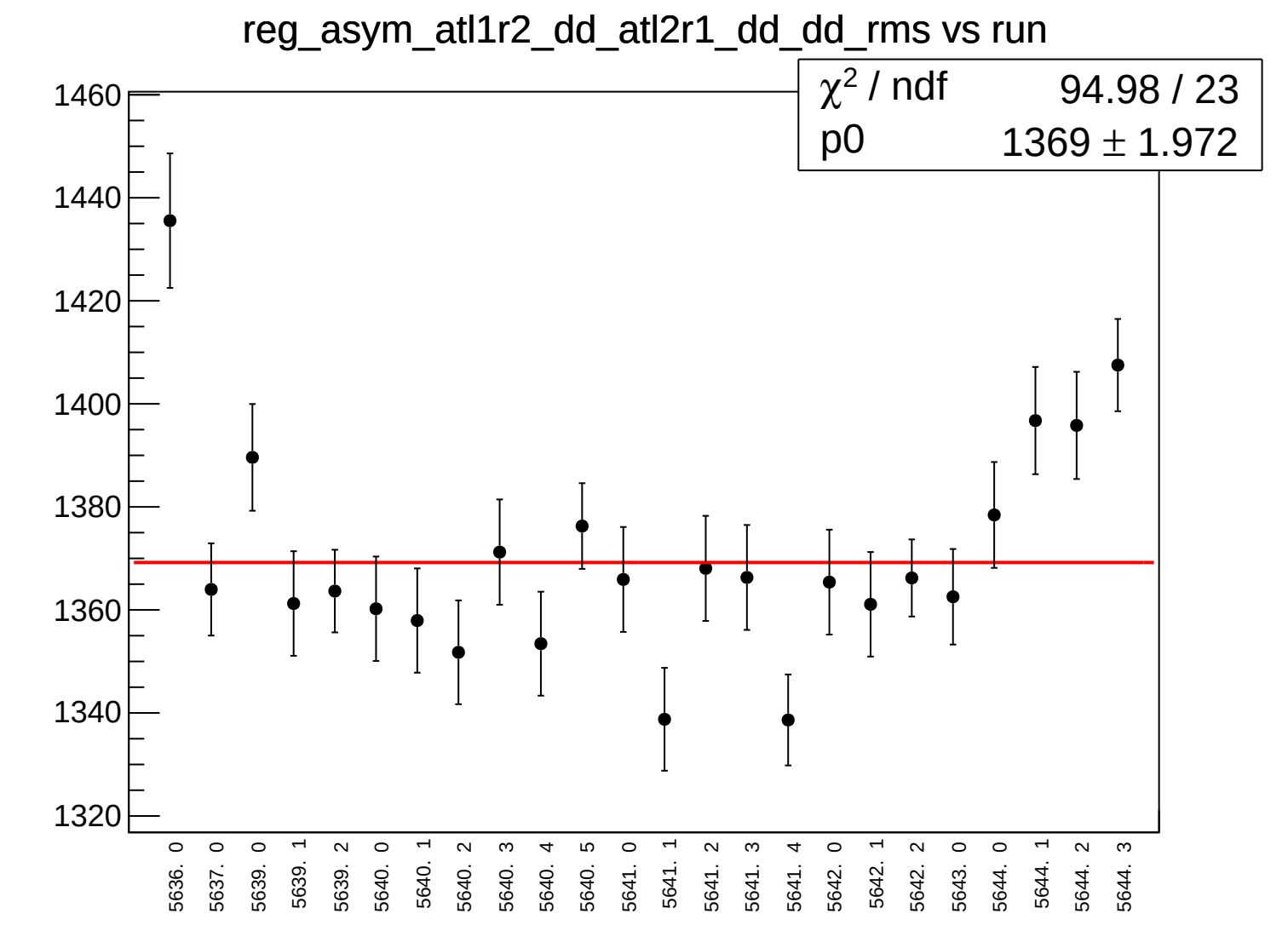

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 27.58 / 23
p0 −2.42e−13 ± 1.151e−13
20
15
10
5
0
−5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

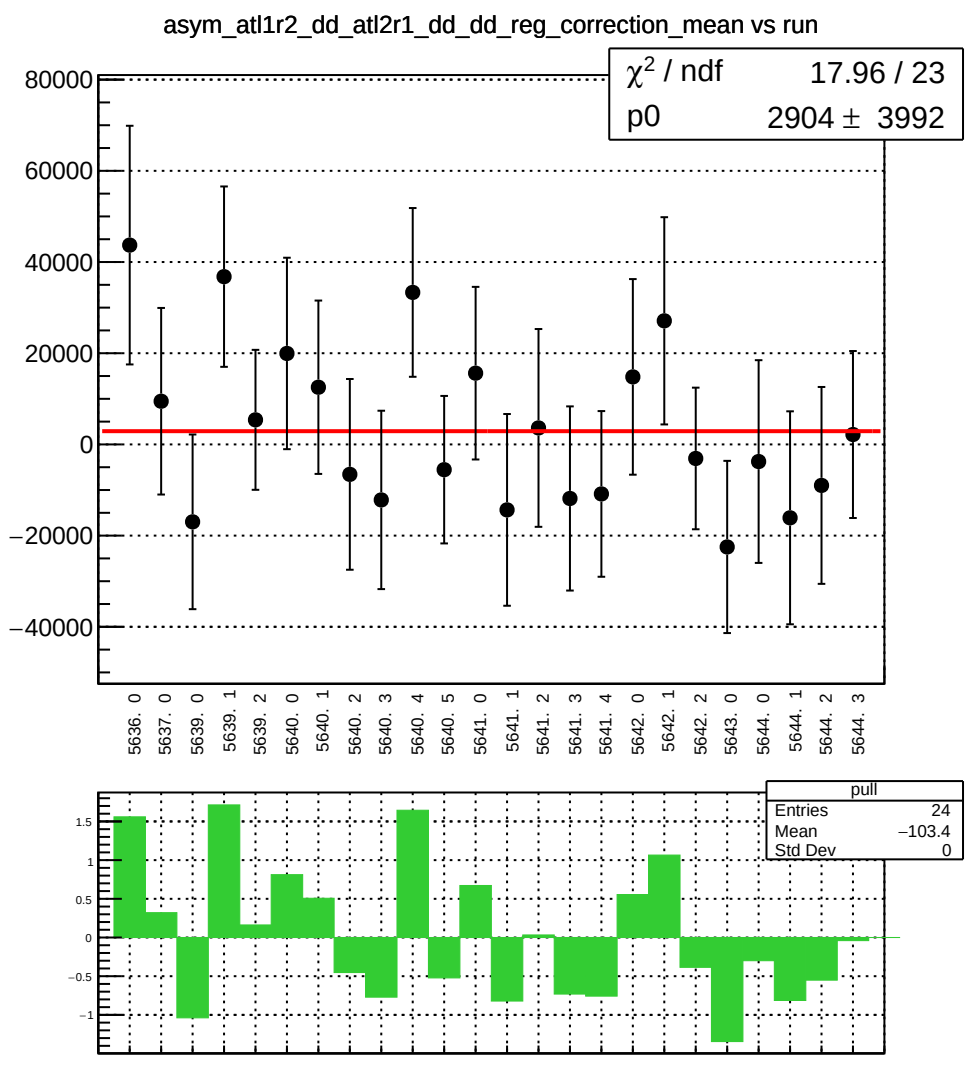

pull
Entries 24
Mean −9.281
Std Dev 0
3
2
1
0
−1
−2

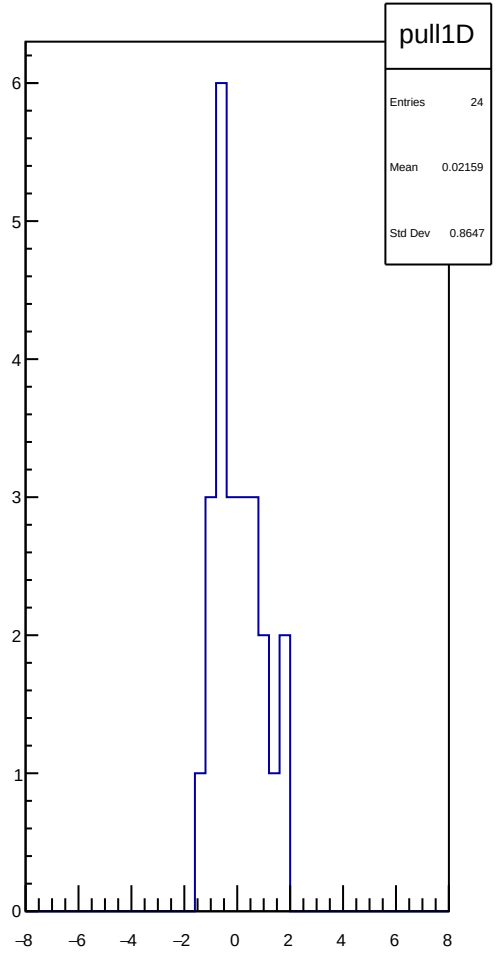

pull1D
Entries 24
Mean −0.09997
Std Dev 1.067
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

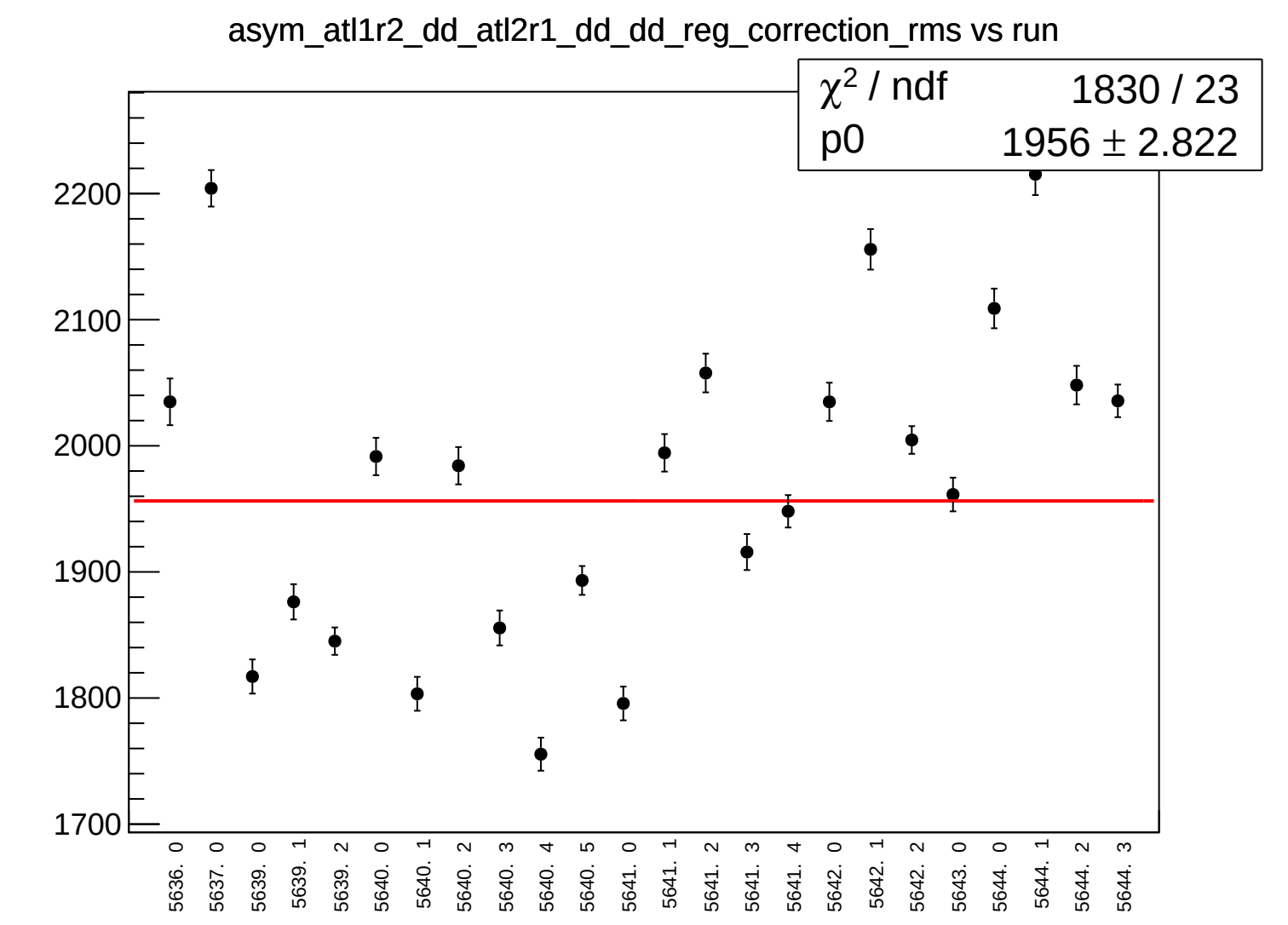

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.322e+05 / 23
p0 4.071e−11 ± 8.141e−14
0.5
0.4
0.3
0.2
0.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 32.21 / 23
p0 −972.2 ± 2789
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 447
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 24
Mean 0.004526
Std Dev 1.158
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 94.98 / 23
p0 1369 ± 1.972
1460
1440
1420
1400
1380
1360
1340
1320
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
χ² / ndf 17.96 / 23
p0 2904 ± 3992
80000
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −103.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 24
Mean 0.02159
Std Dev 0.8647
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 1830 / 23
p0 1956 ± 2.822
2200
2100
2000
1900
1800
1700
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
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5644. 0
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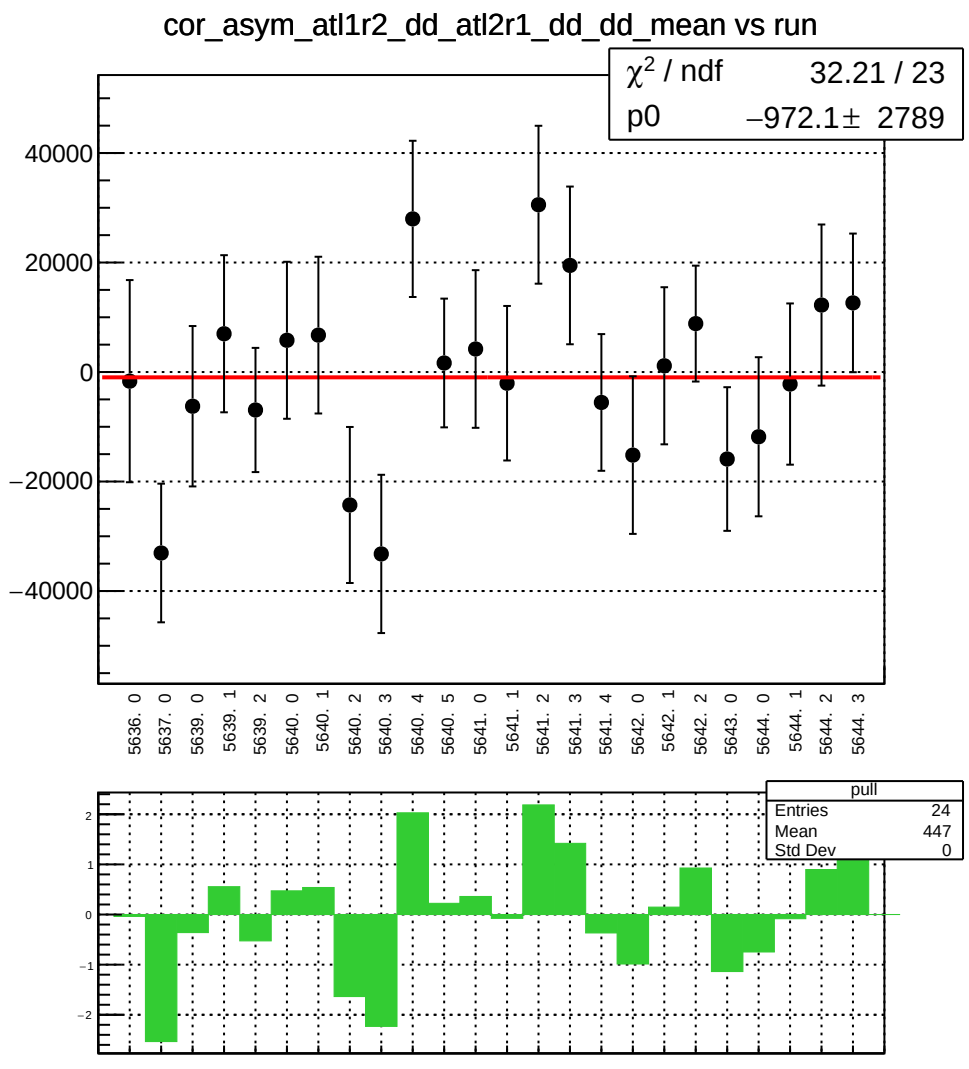
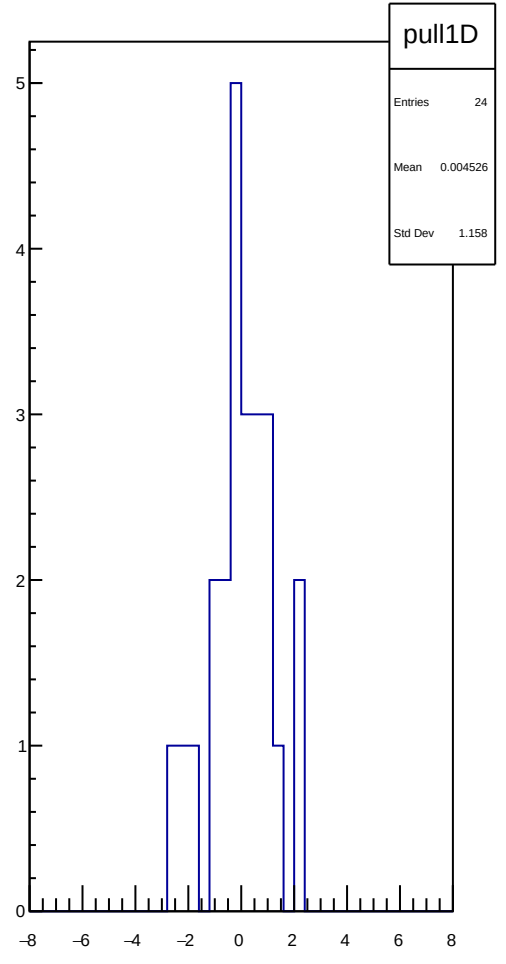
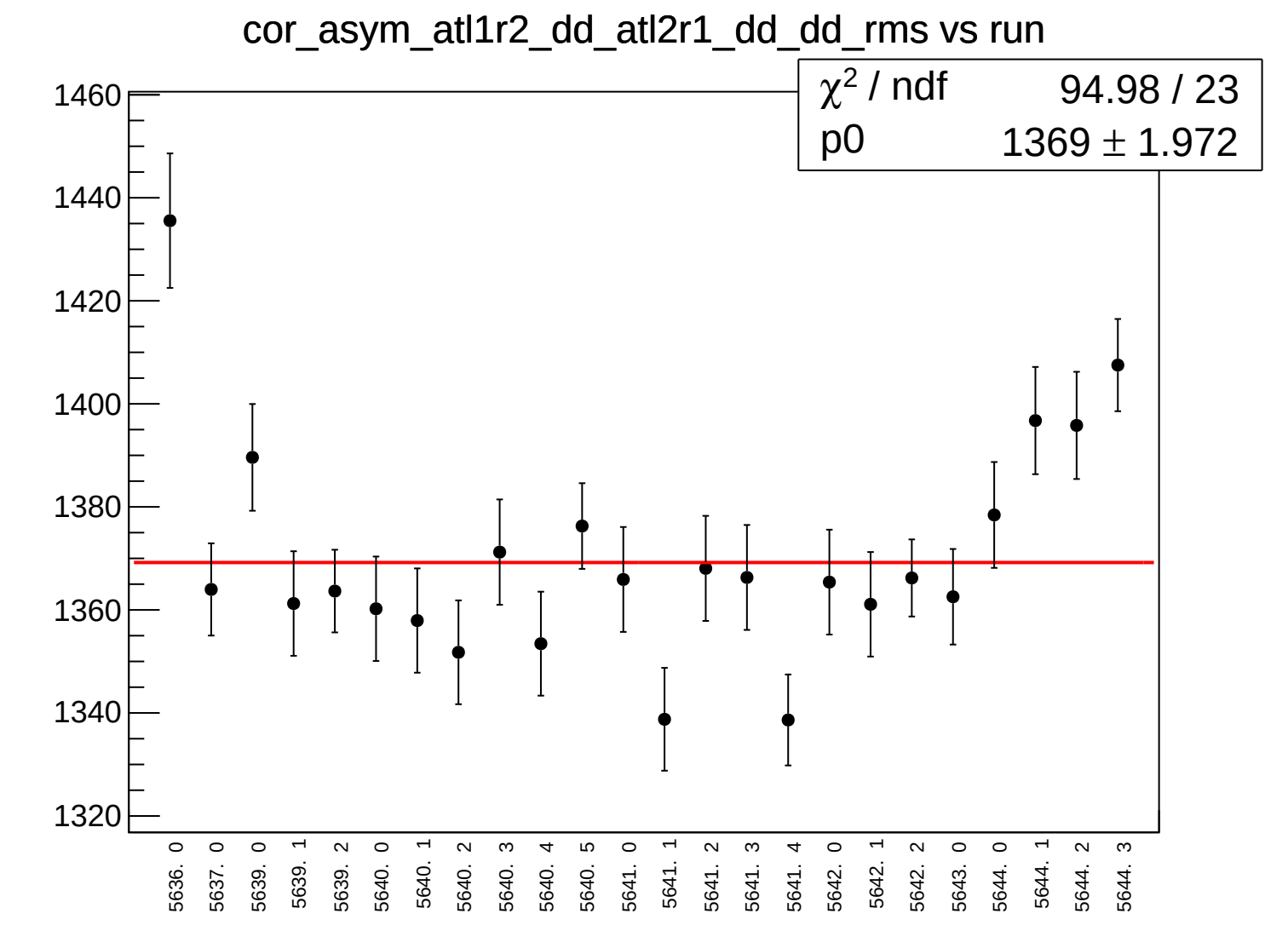
5644. 2
5644. 3


cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 32.21 / 23
p0 −972.1± 2789
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 447
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 24
Mean 0.004526
Std Dev 1.158
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 94.98 / 23
p0 1369 ± 1.972
1460
1440
1420
1400
1380
1360
1340
1320
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
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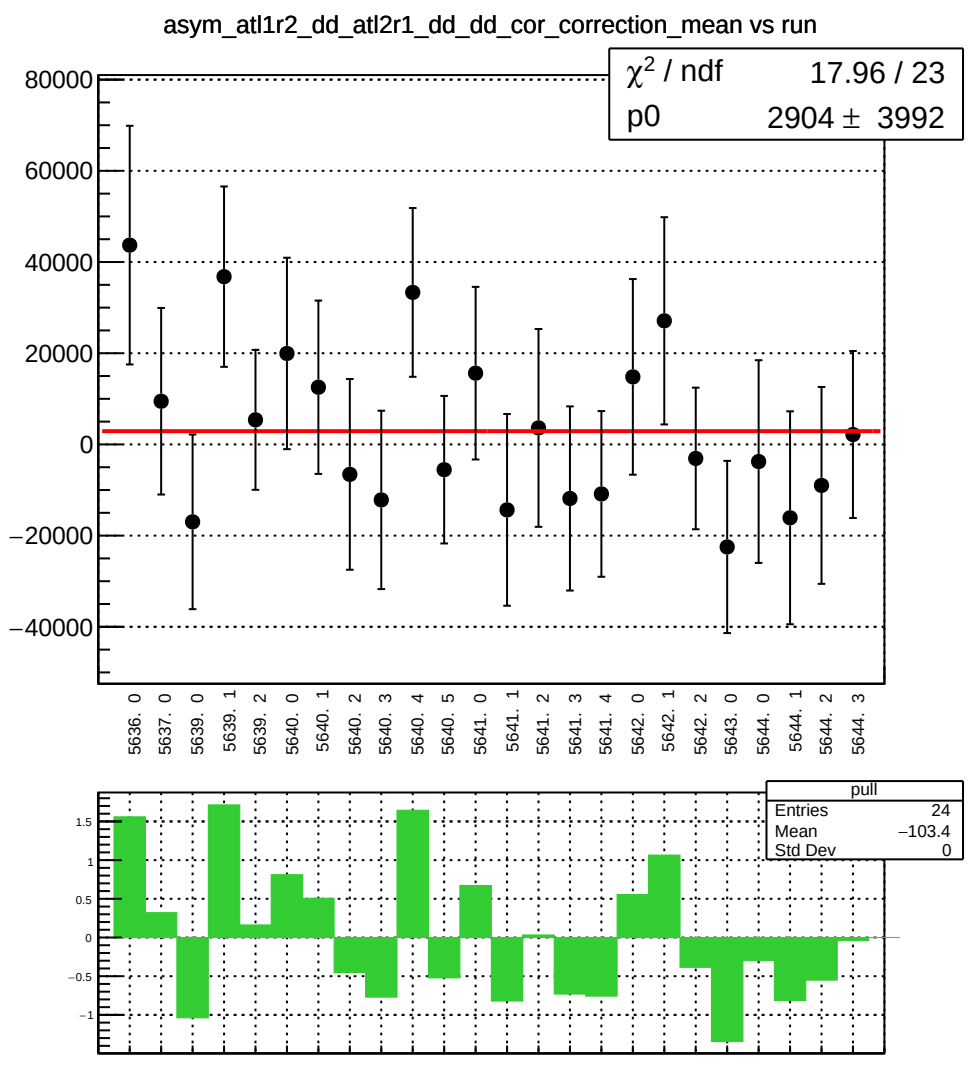
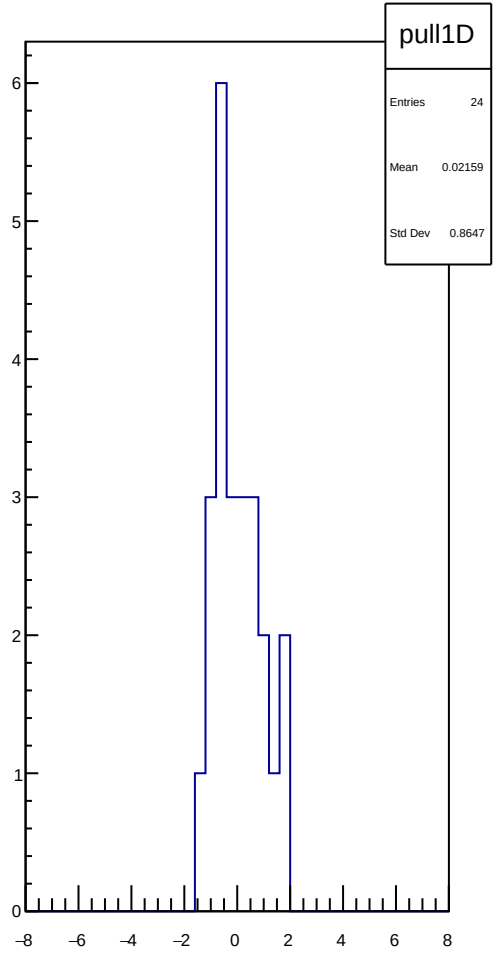
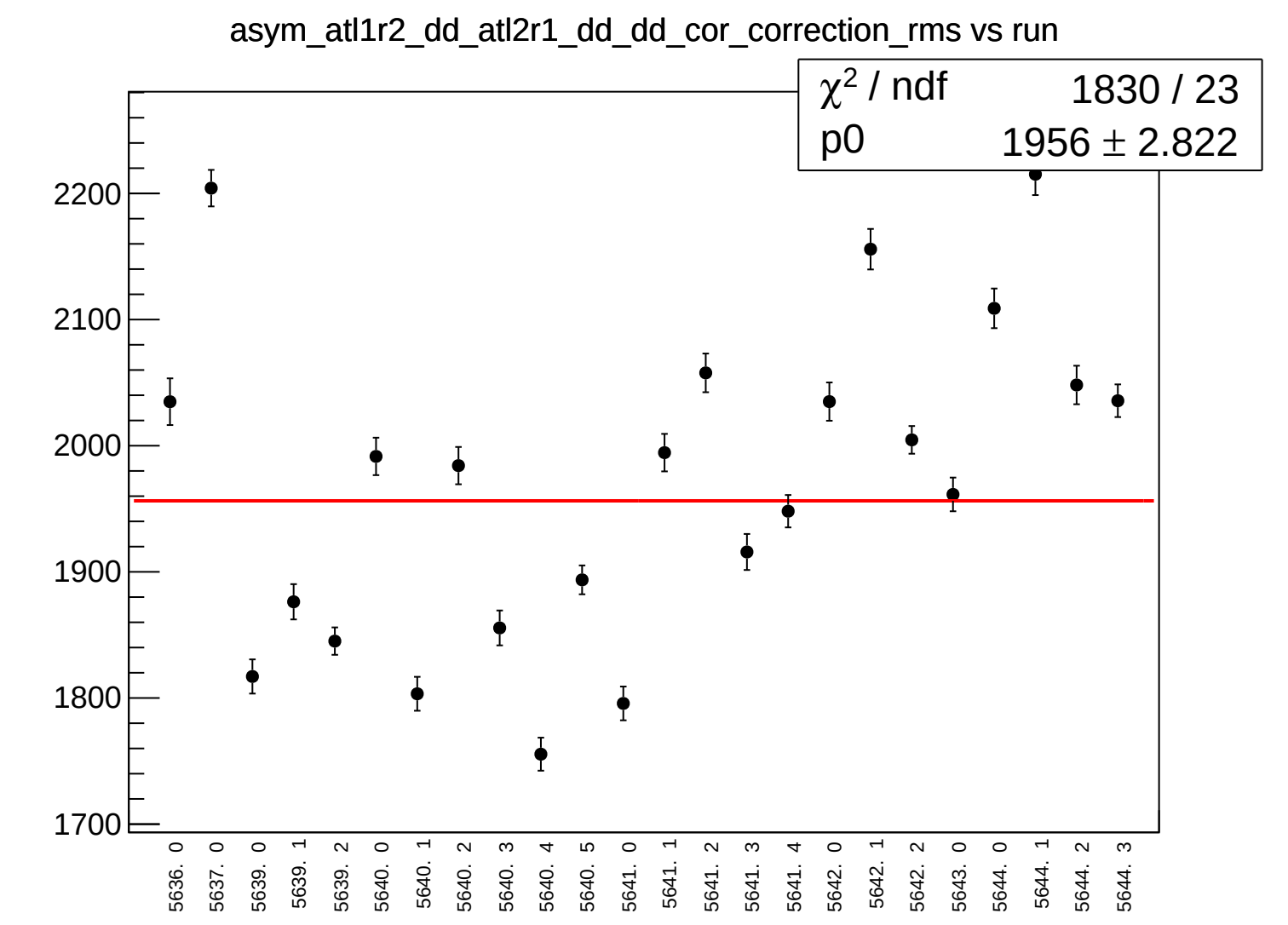
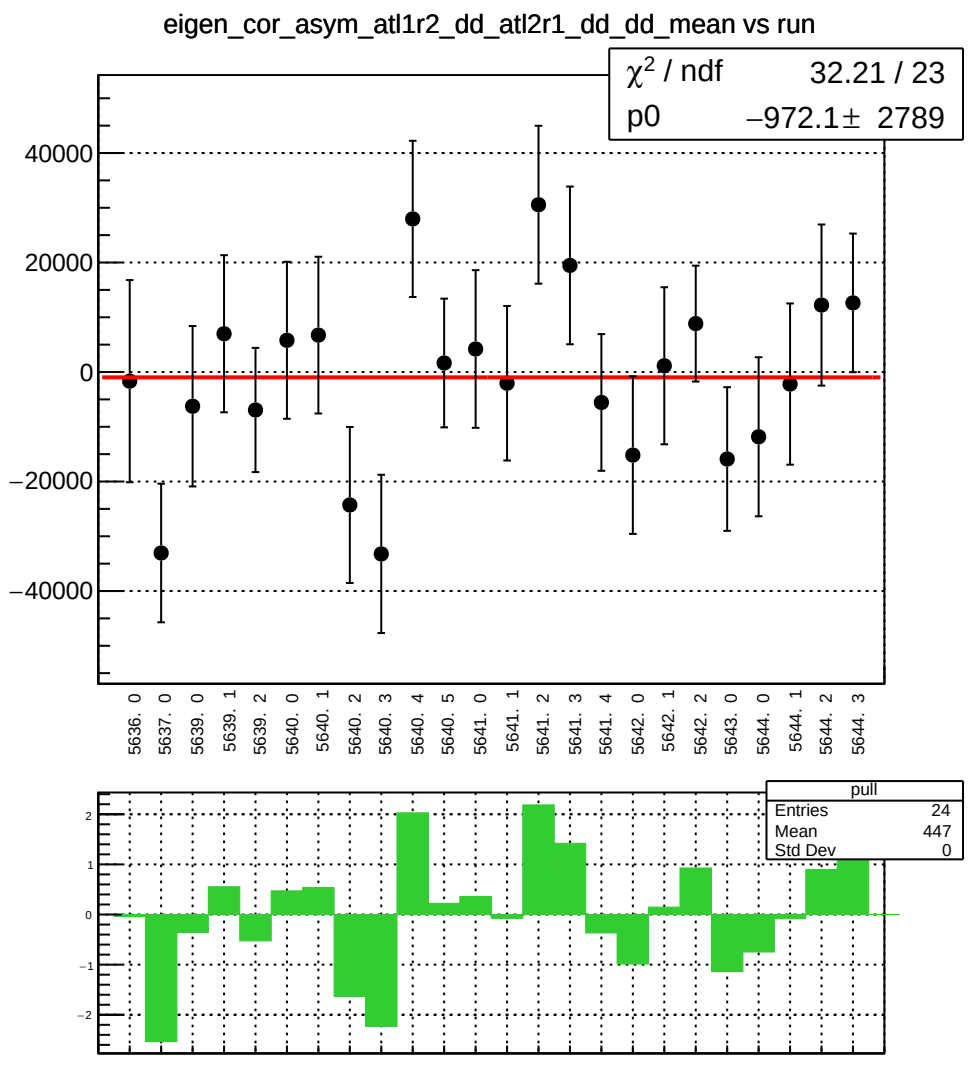
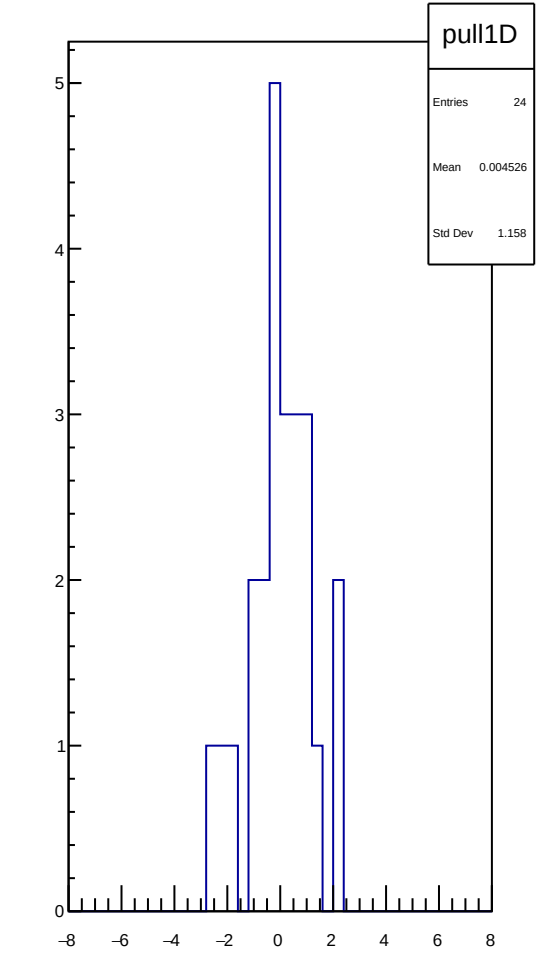
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

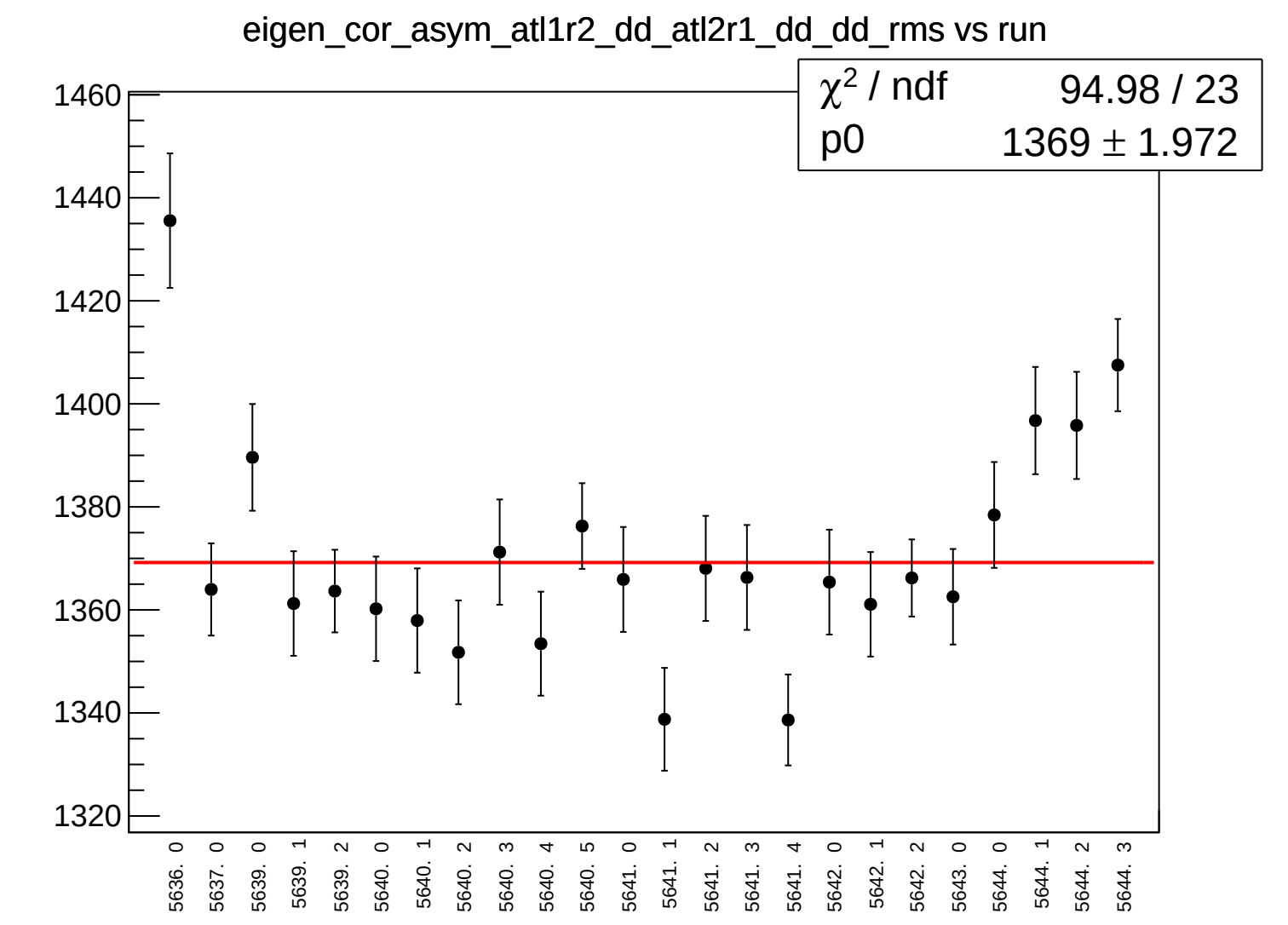

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
χ² / ndf 17.96 / 23
p0 2904 ± 3992
80000
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −103.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1

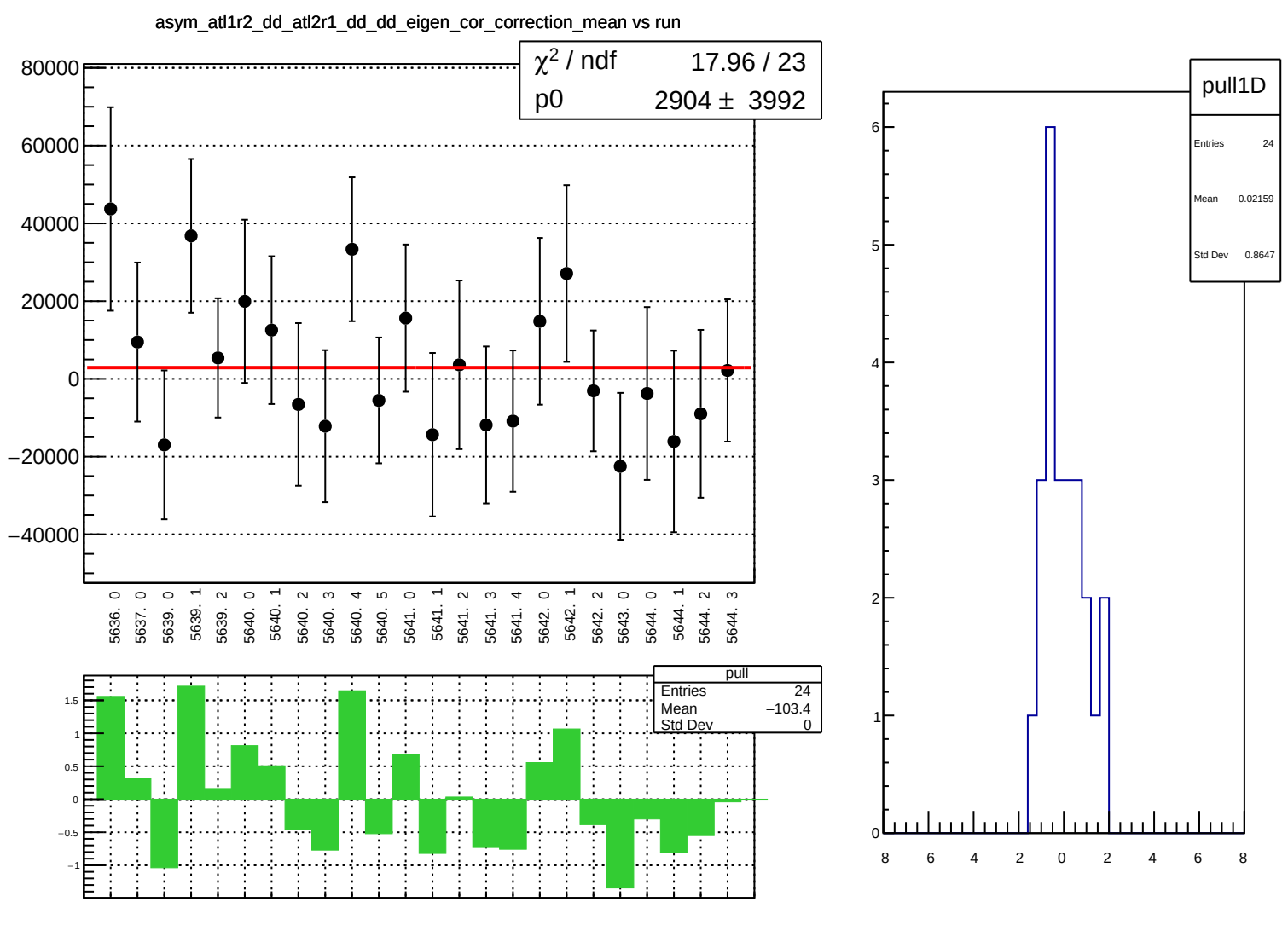

pull1D
Entries 24
Mean 0.02159
Std Dev 0.8647
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

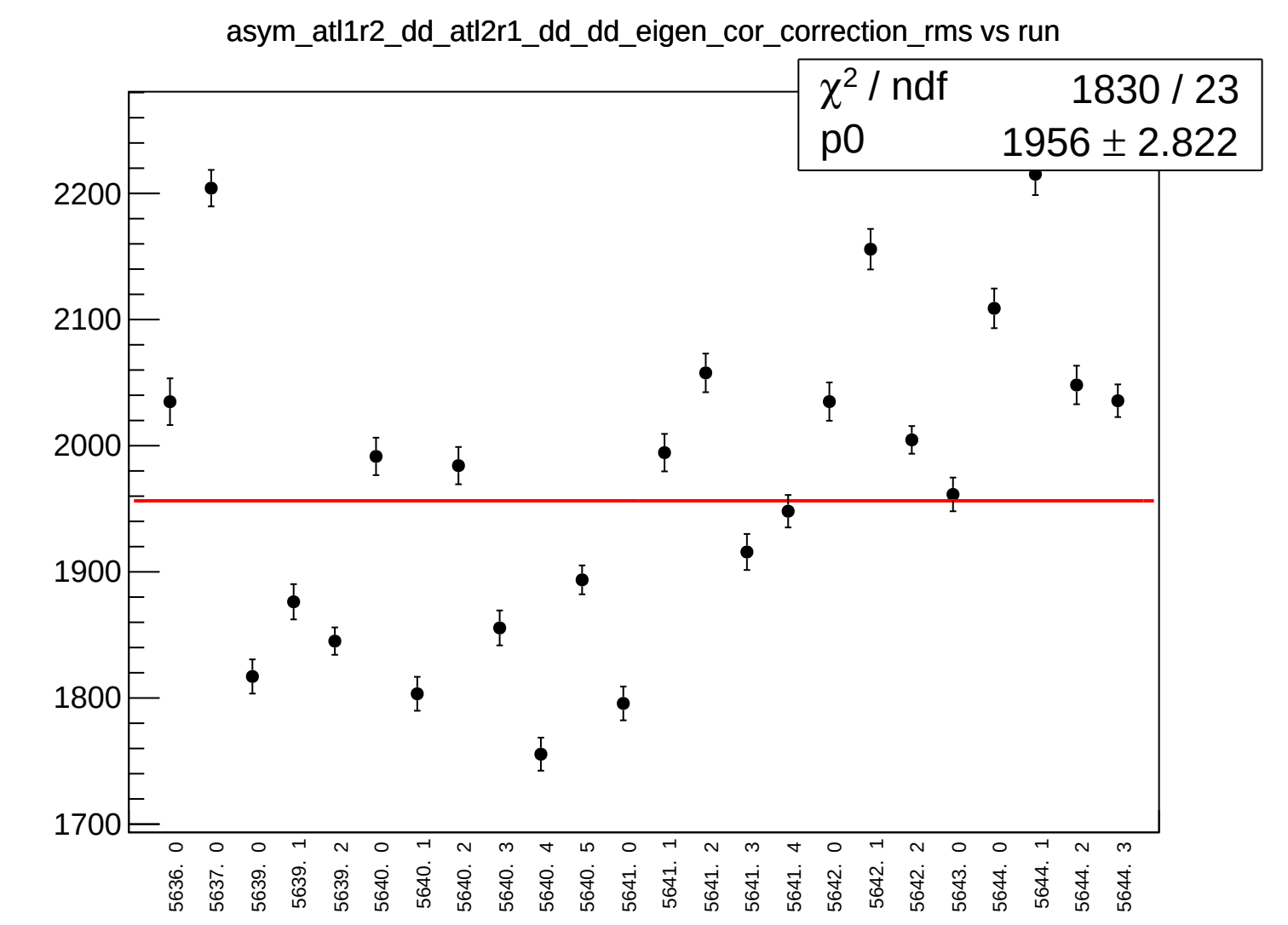

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 1830 / 23
p0 1956 ± 2.822
2200
2100
2000
1900
1800
1700
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

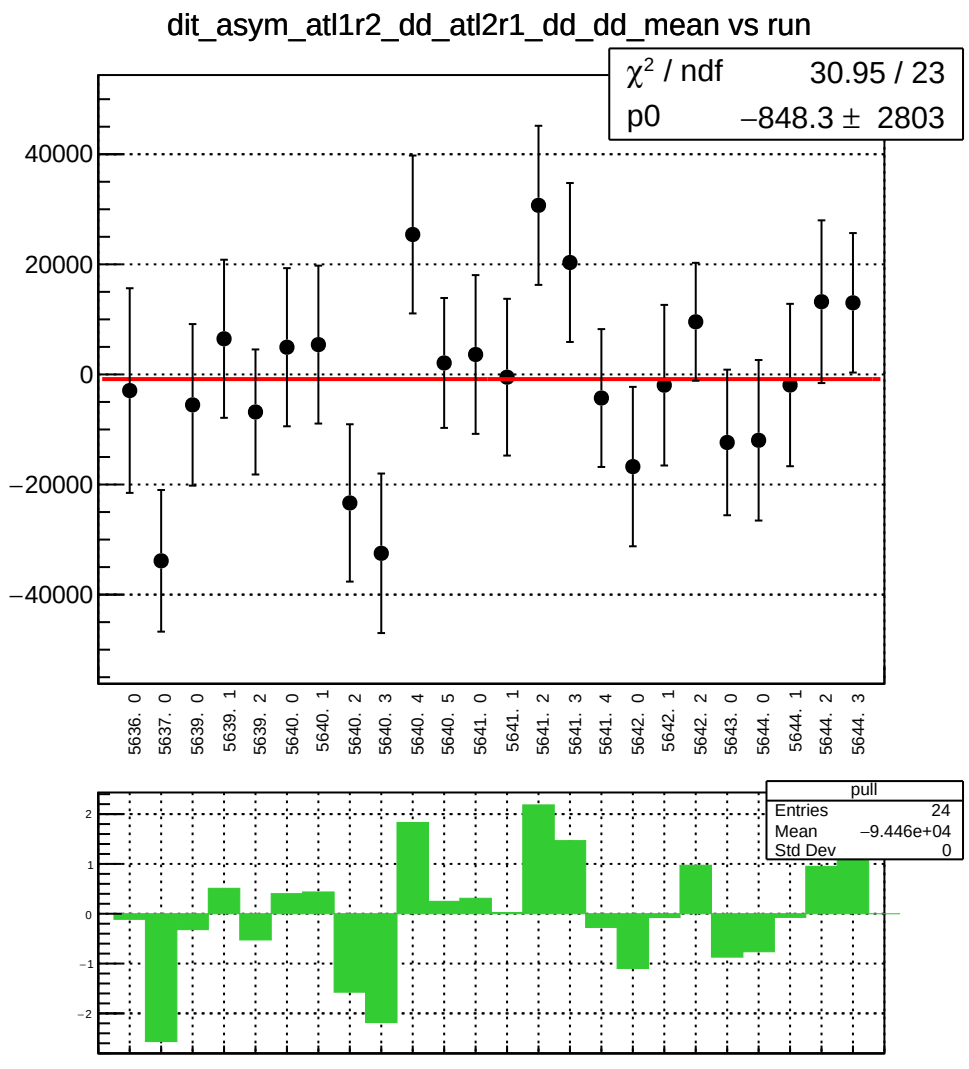

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 32.21 / 23
p0 −972.1± 2789
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 447
Std Dev 0
2
1
0
−1
−2

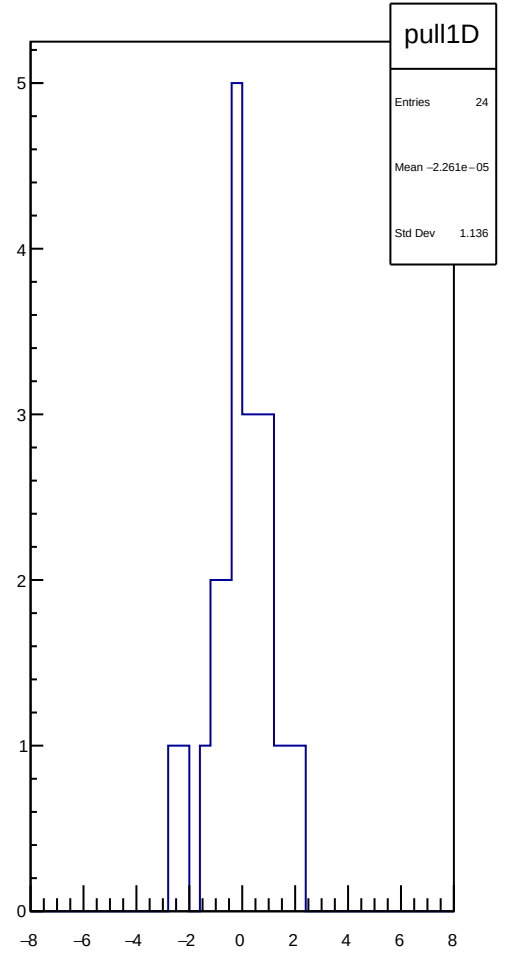

pull1D
Entries 24
Mean 0.004526
Std Dev 1.158
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

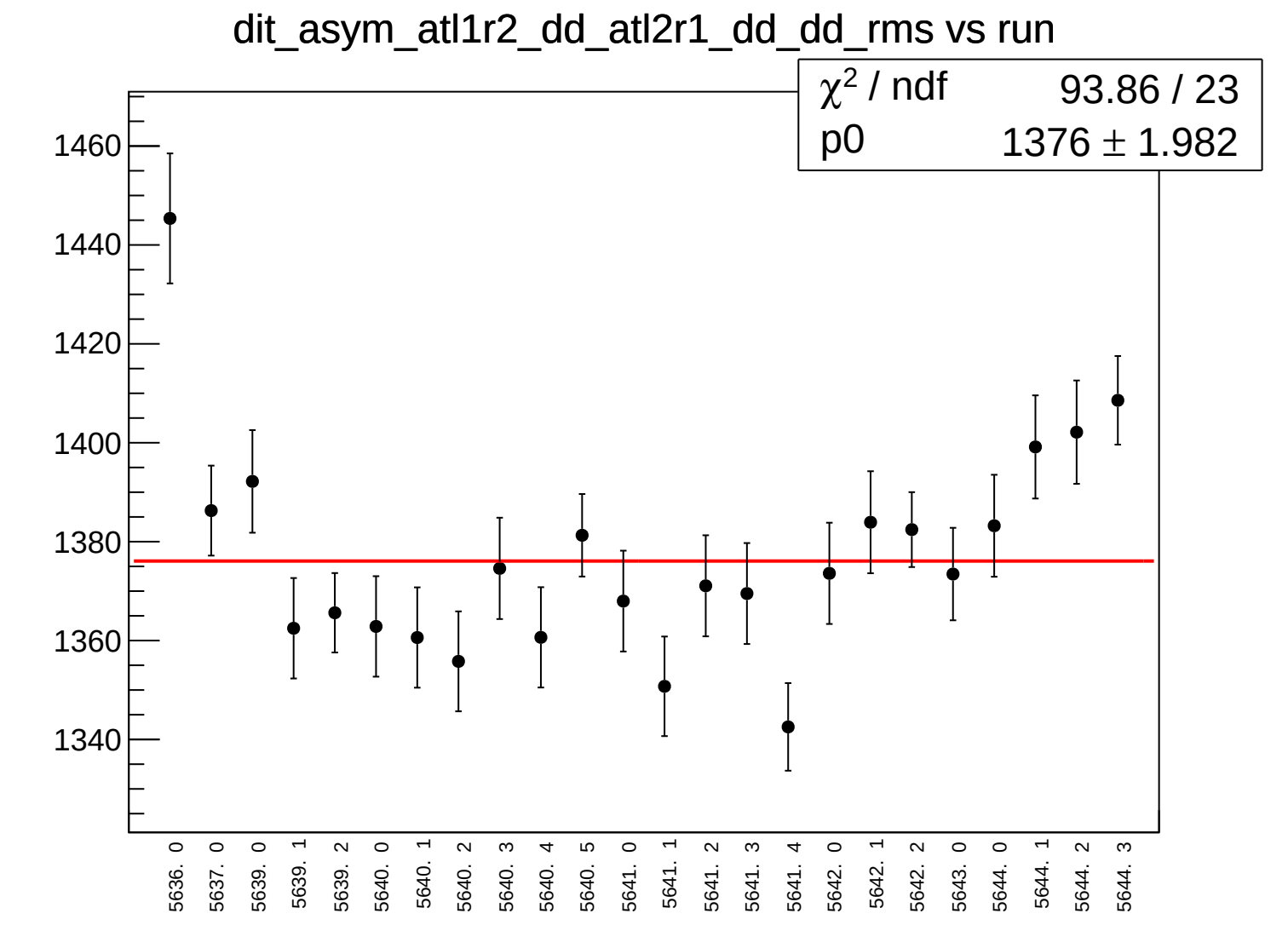

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 94.98 / 23
p0 1369 ± 1.972
1460
1440
1420
1400
1380
1360
1340
1320
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 17.96 / 23
p0 2904 ± 3992
80000
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −103.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.02159
Std Dev 0.8647
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1830 / 23
p0 1956 ± 2.822
2200
2100
2000
1900
1800
1700
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 30.95 / 23
p0 −848.3 ± 2803
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −9.446e+04
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 24
Mean −2.261e−05
Std Dev 1.136
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 93.86 / 23
p0 1376 ± 1.982
1460
1440
1420
1400
1380
1360
1340
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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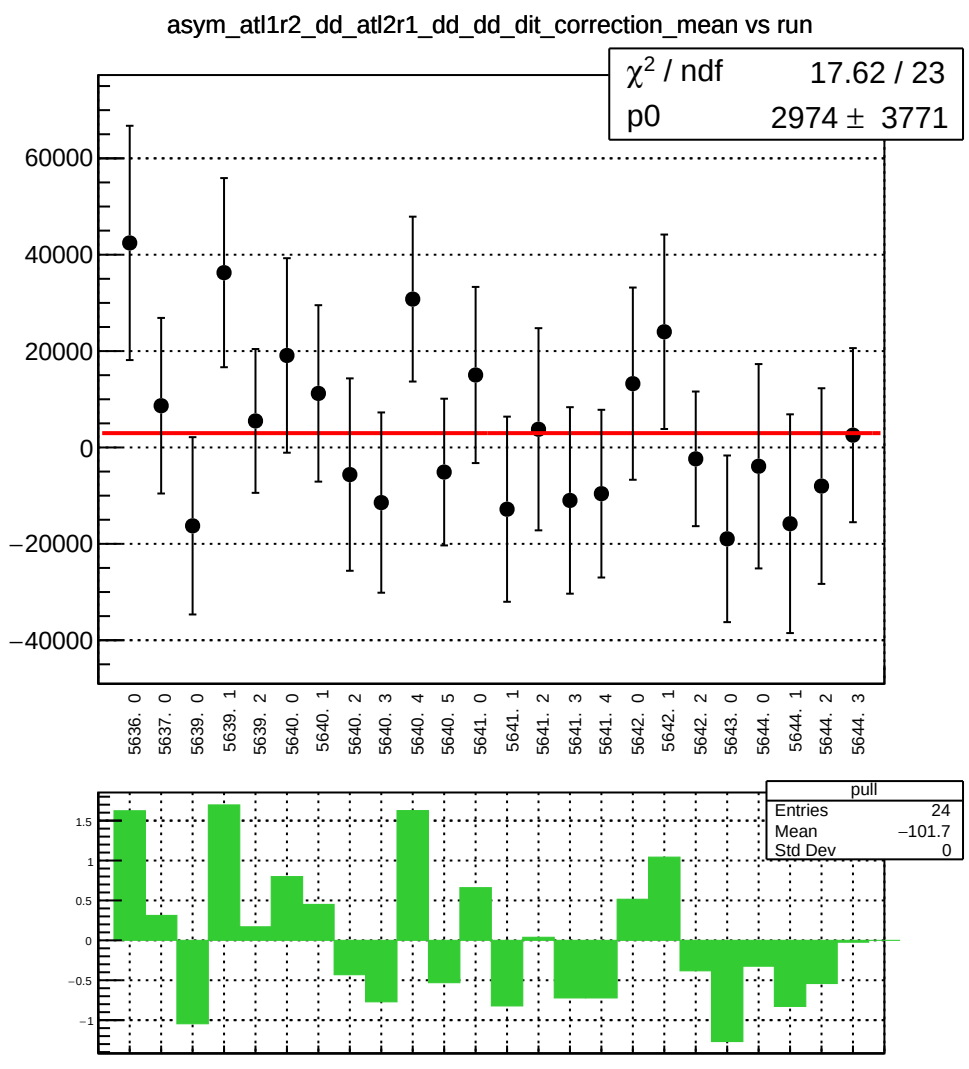
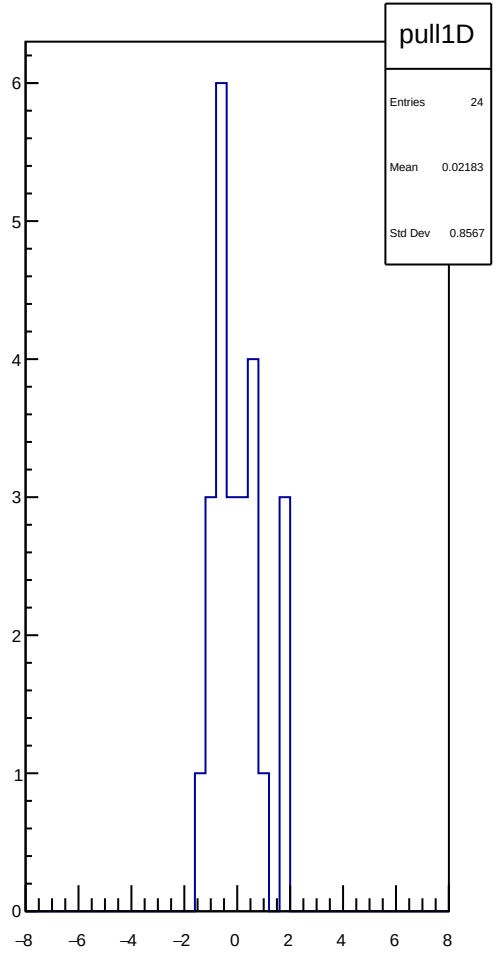
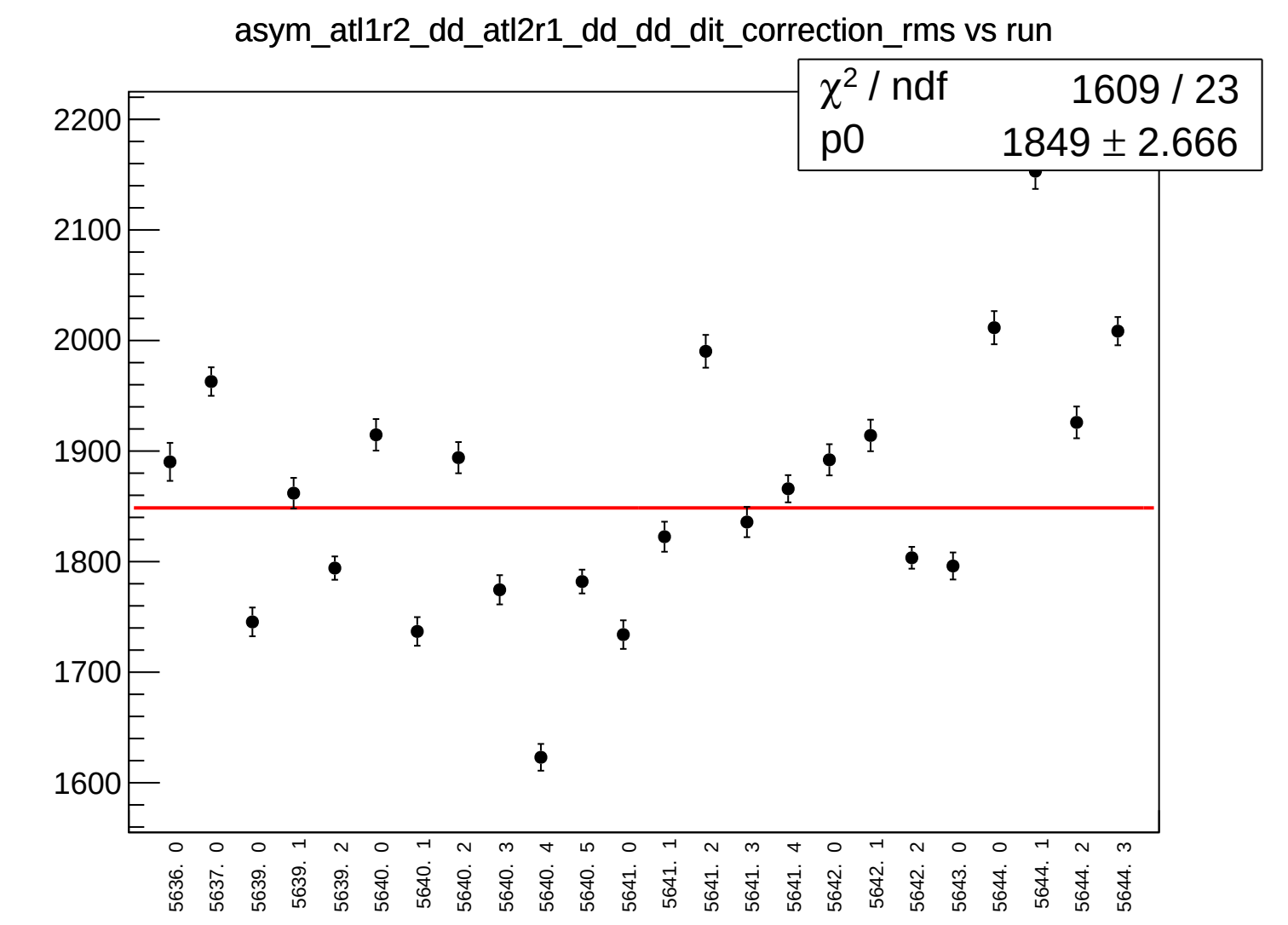
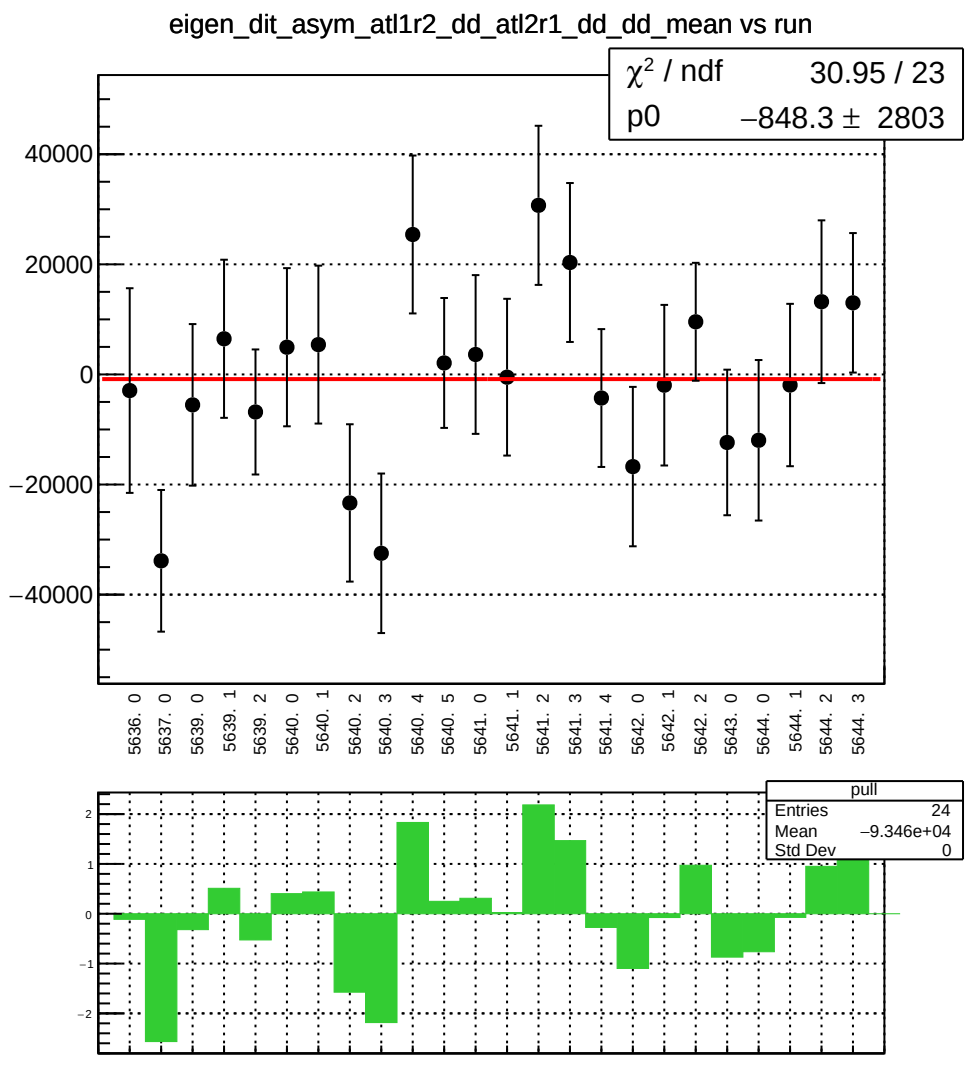
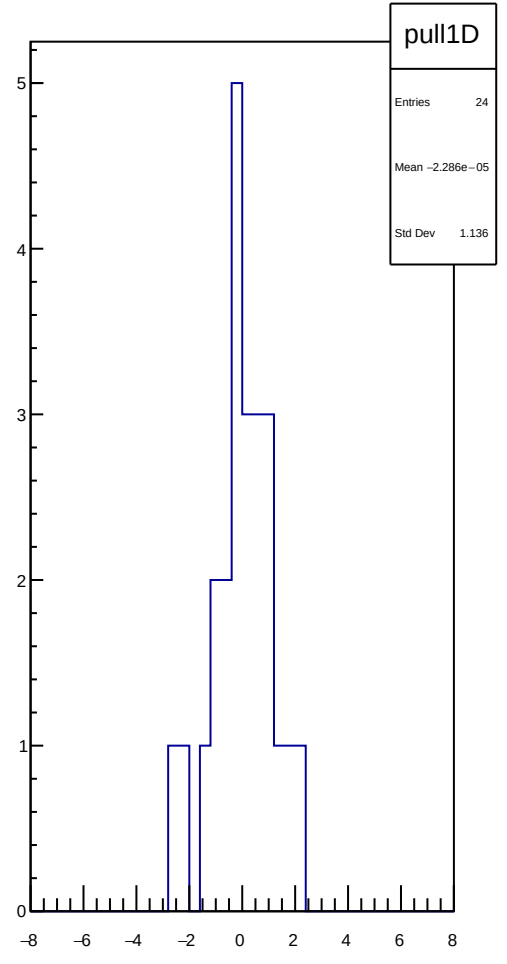
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

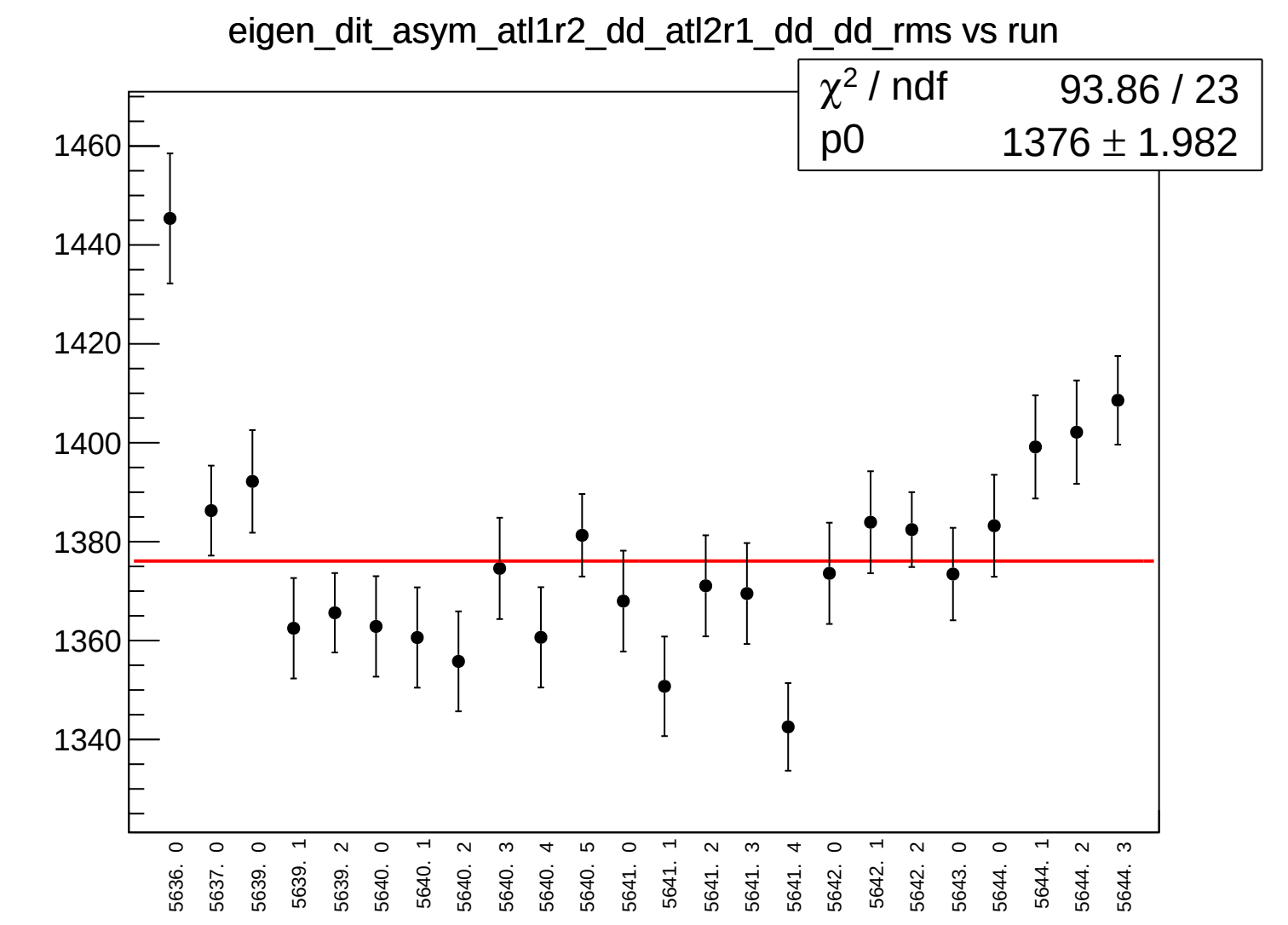

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
χ² / ndf 17.62 / 23
p0 2974 ± 3771
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −101.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 24
Mean 0.02183
Std Dev 0.8567
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 1609 / 23
p0 1849 ± 2.666
2200
2100
2000
1900
1800
1700
1600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 30.95 / 23
p0 −848.3 ± 2803
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −9.346e+04
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 24
Mean −2.286e−05
Std Dev 1.136
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 93.86 / 23
p0 1376 ± 1.982
1460
1440
1420
1400
1380
1360
1340
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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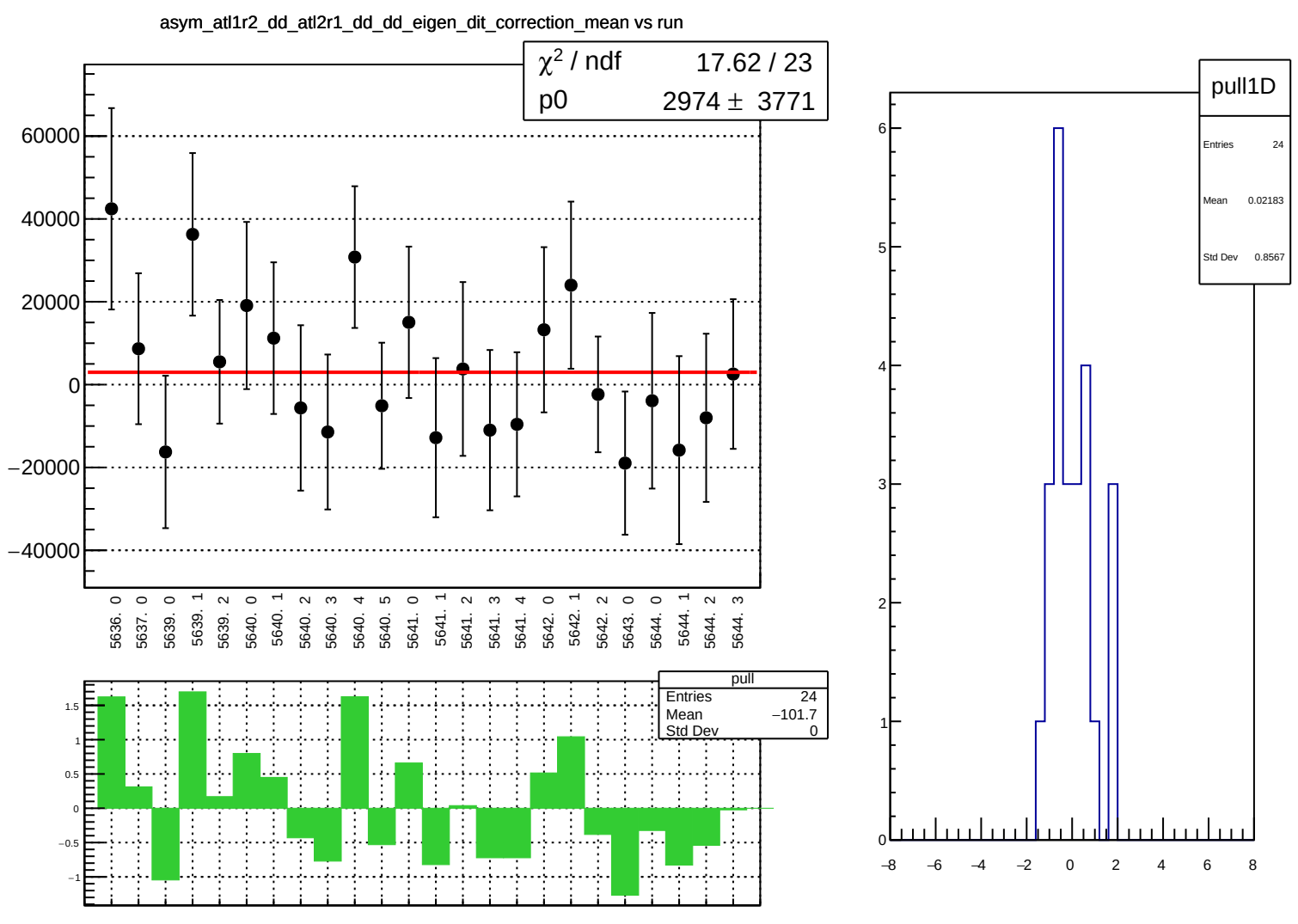
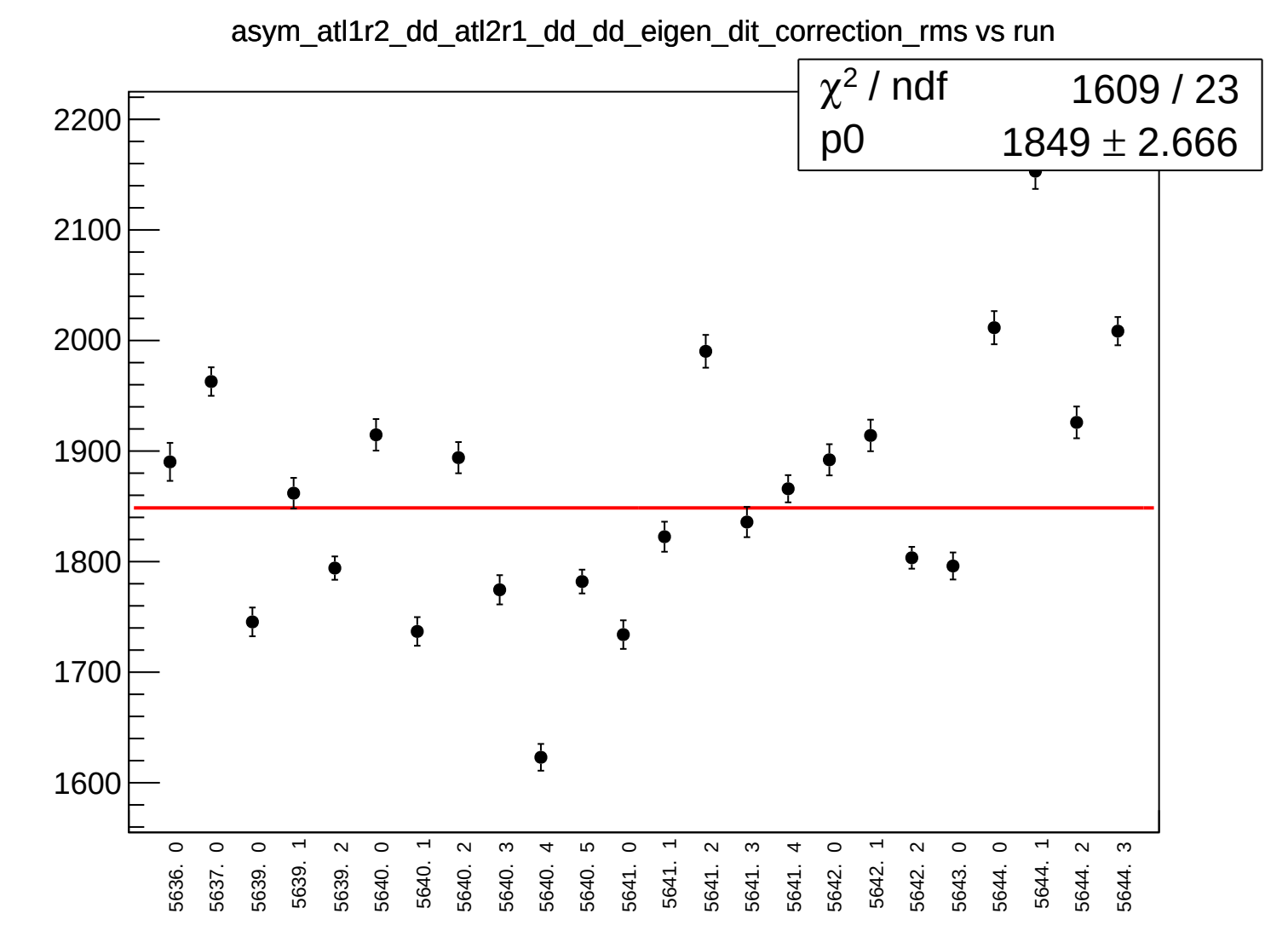
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 17.62 / 23
p0 2974 ± 3771
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −101.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.02183
Std Dev 0.8567
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1609 / 23
p0 1849 ± 2.666
2200
2100
2000
1900
1800
1700
1600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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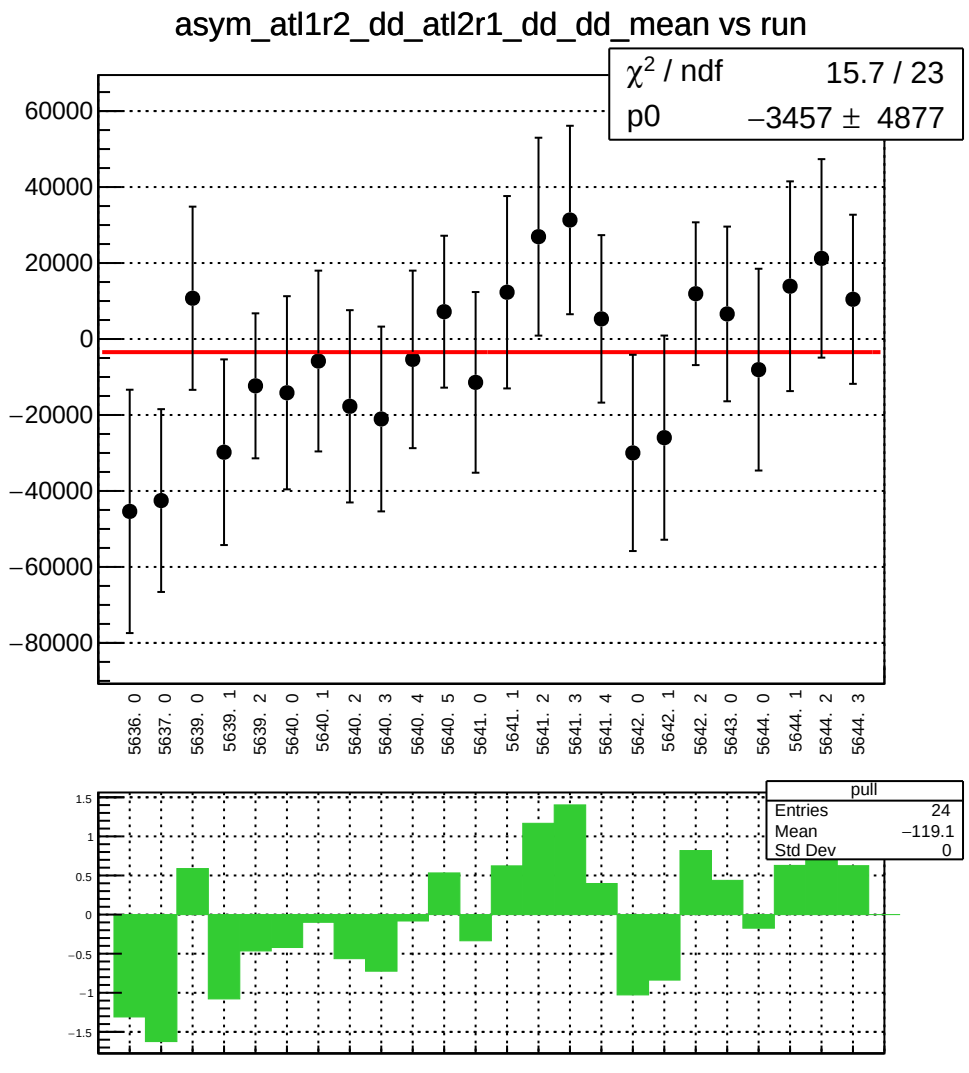
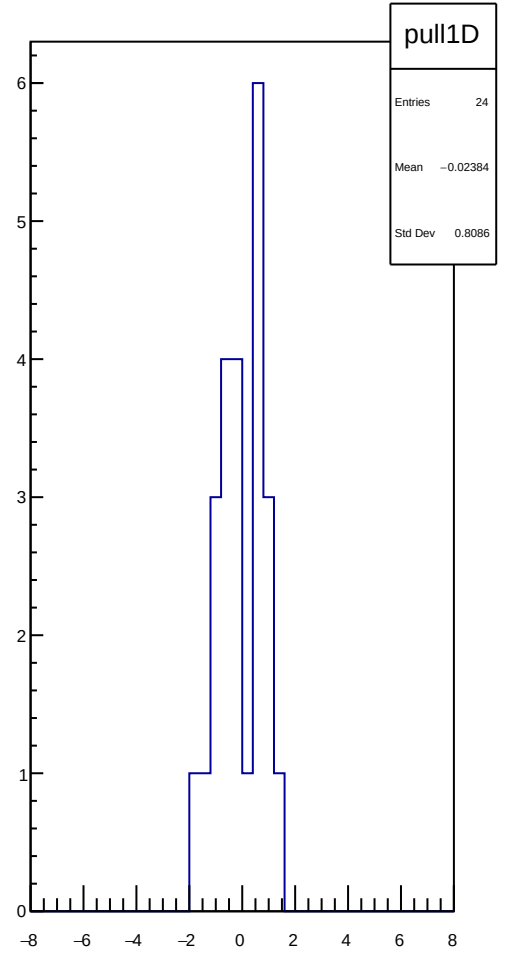
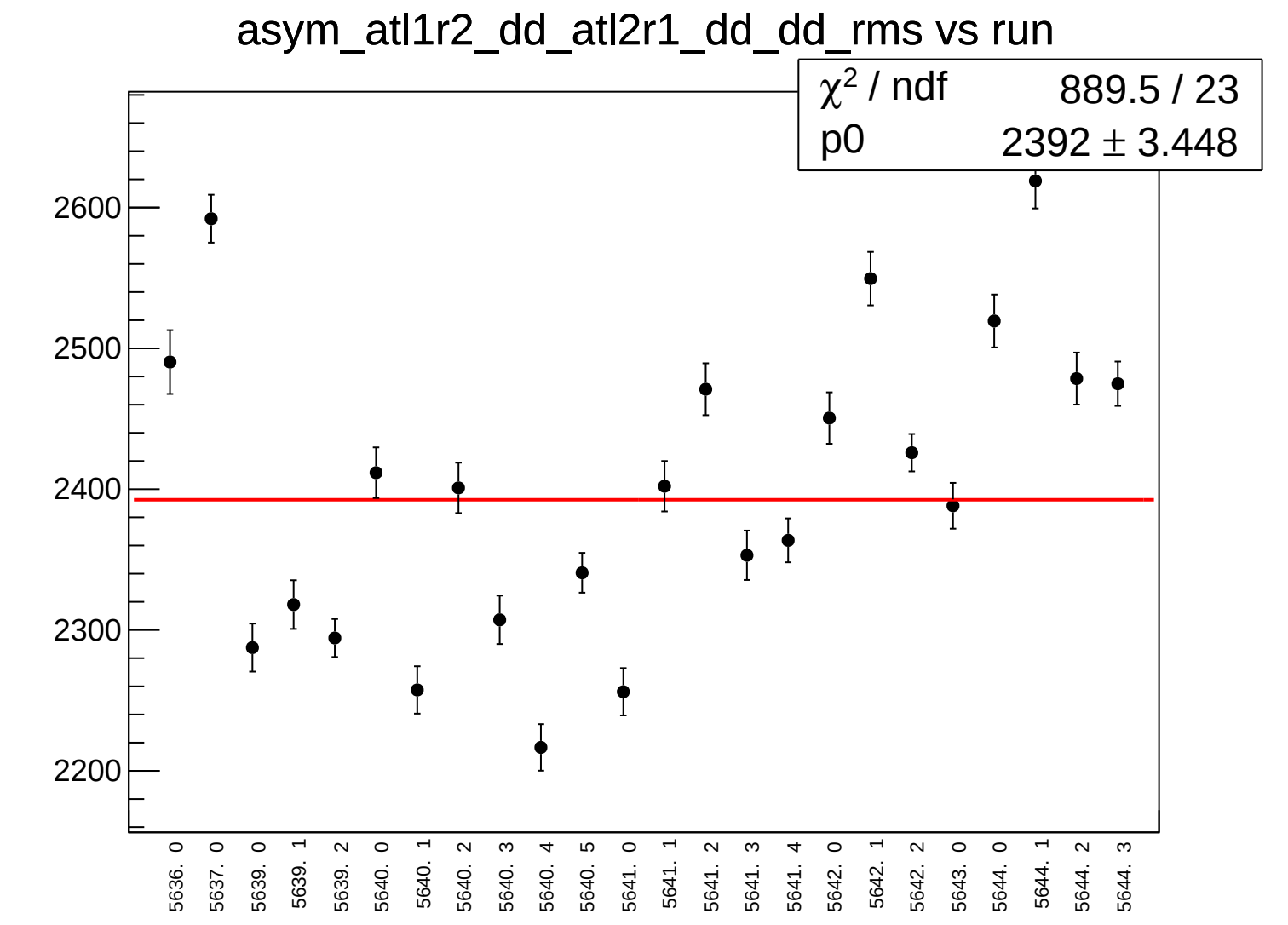
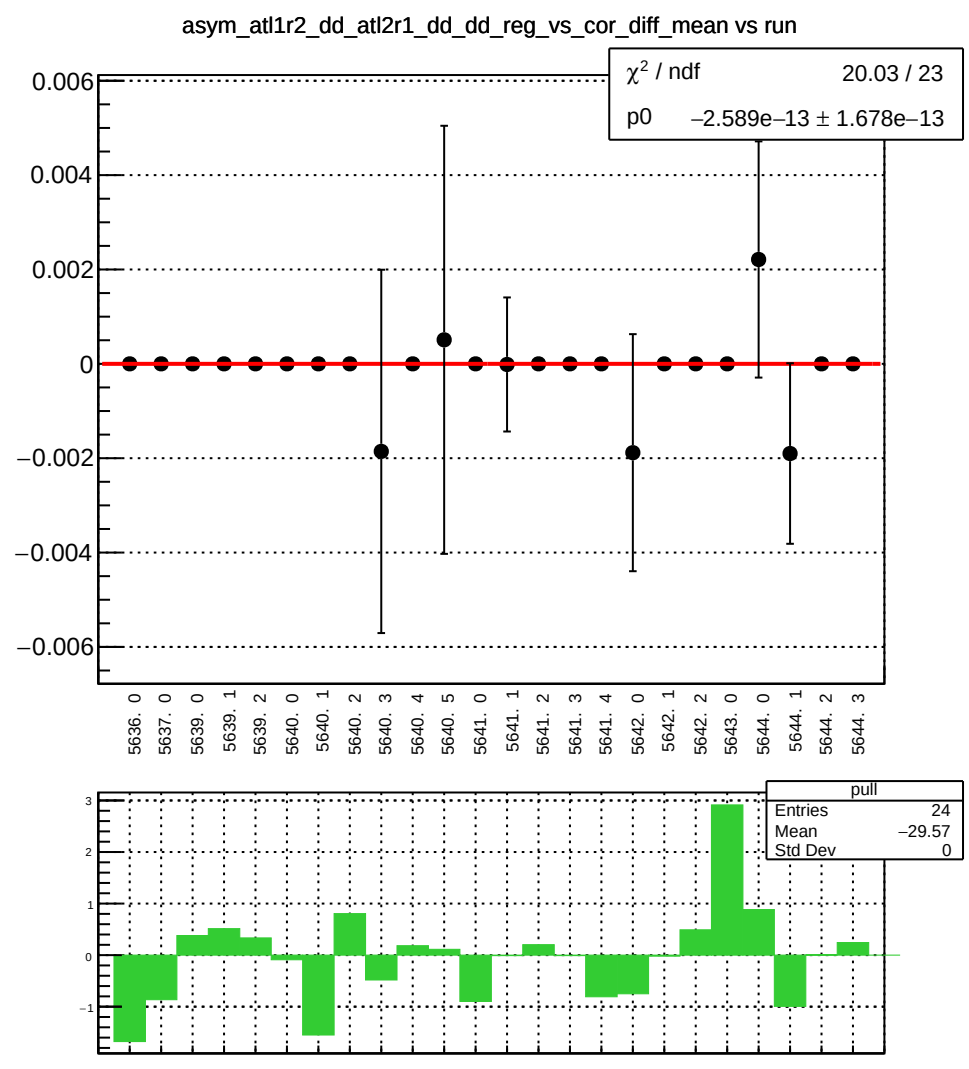
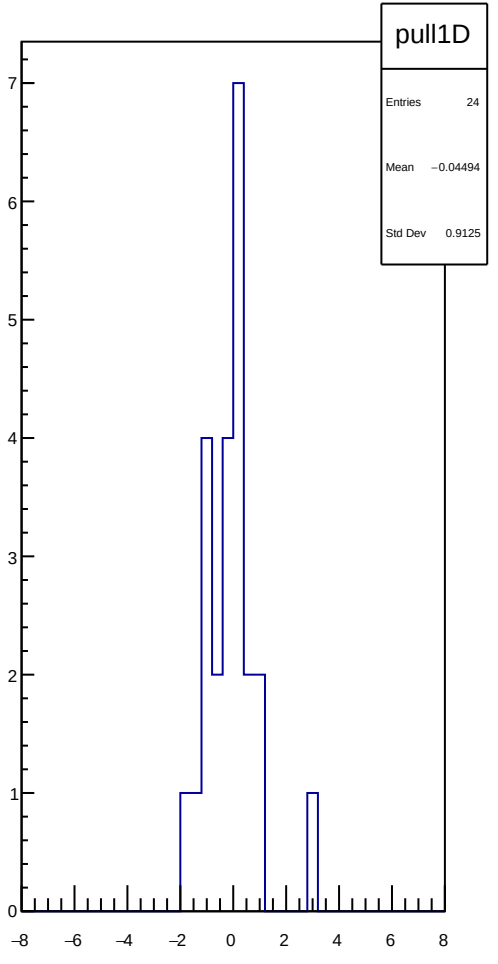
5644. 1
5644. 2
5644. 3

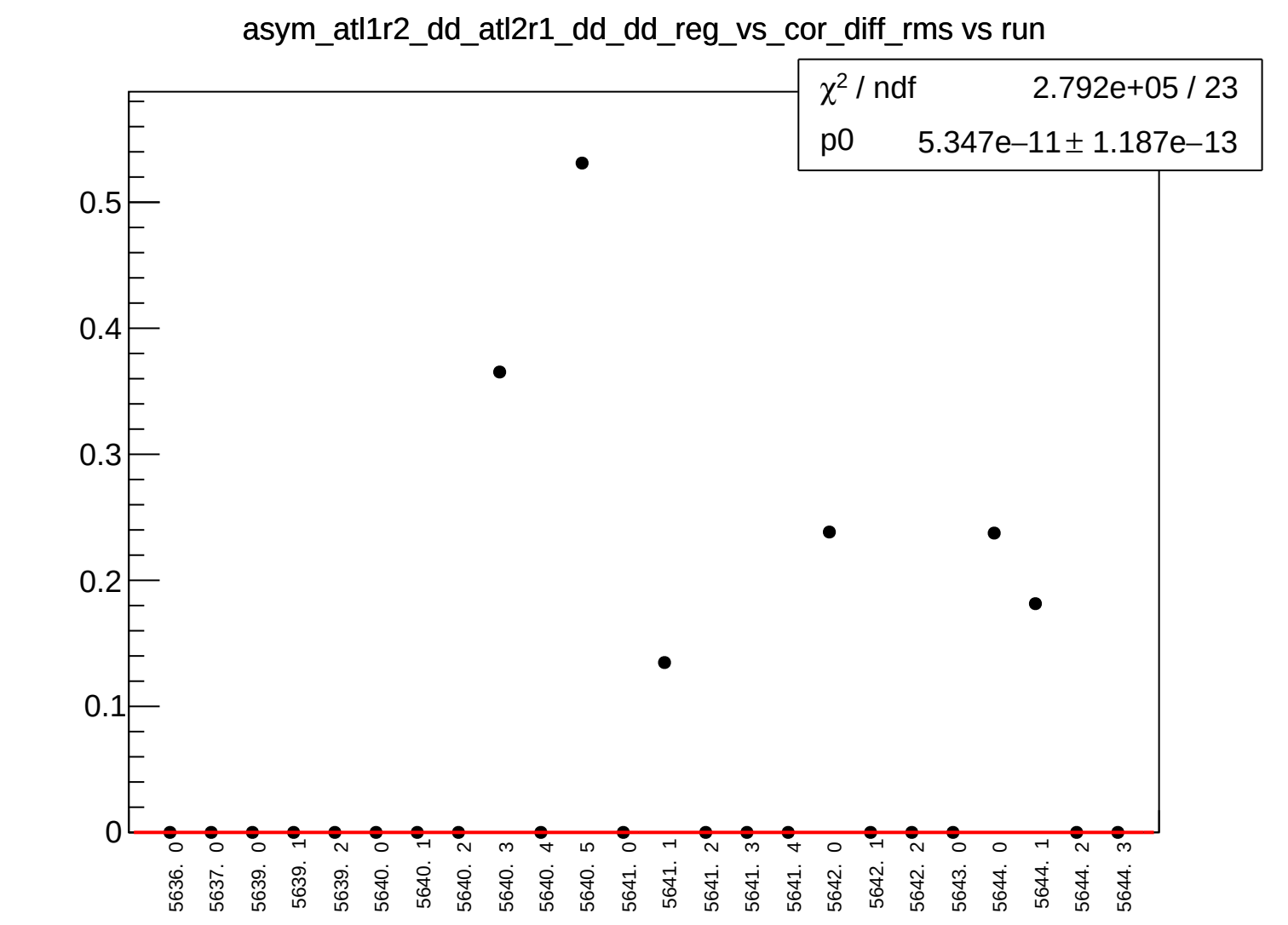

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 15.7 / 23
p0 −3457 ± 4877
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −119.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

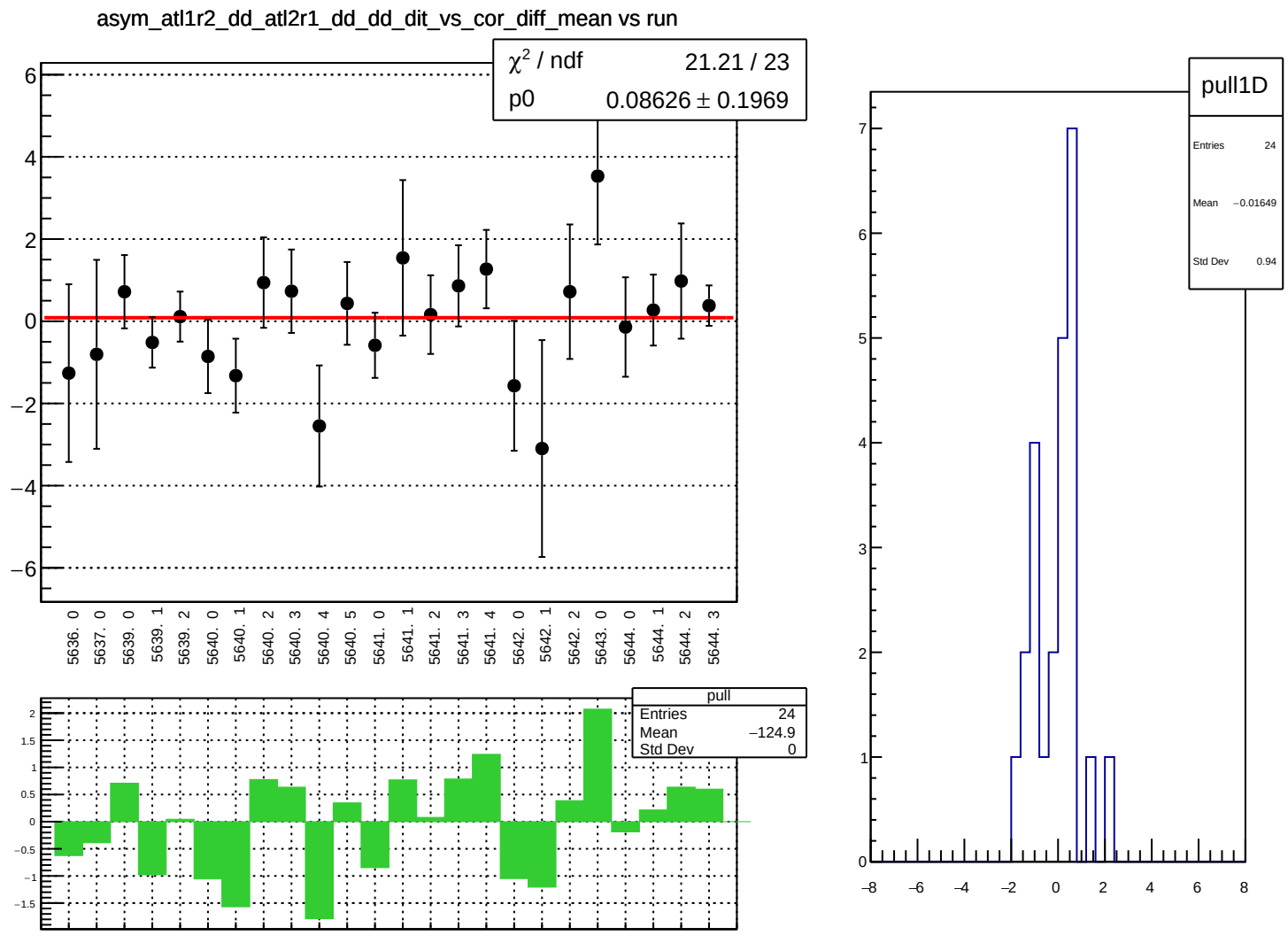

pull1D
Entries 24
Mean −0.02384
Std Dev 0.8086
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

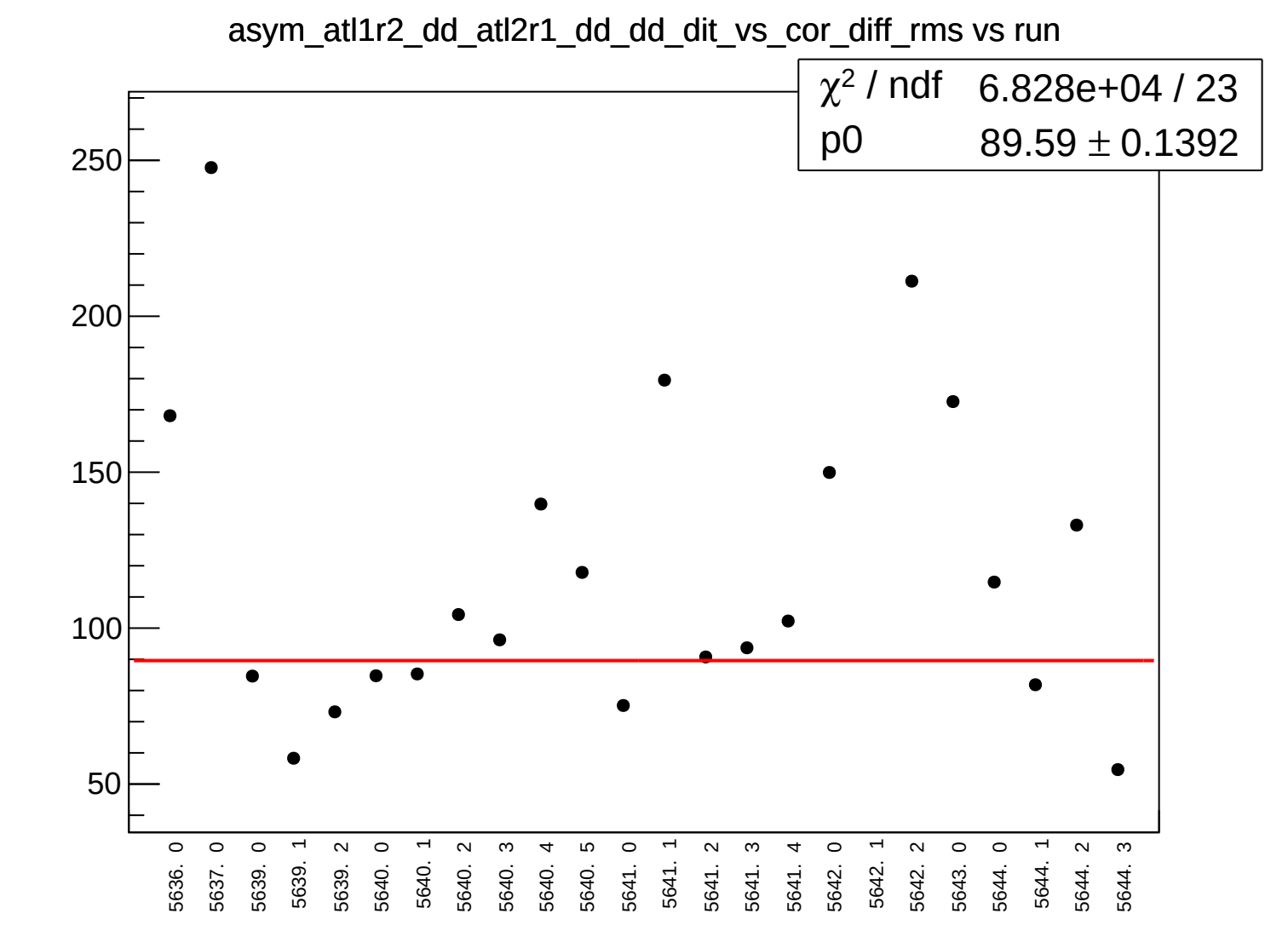

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 889.5 / 23
p0 2392 ± 3.448
2600
2500
2400
2300
2200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

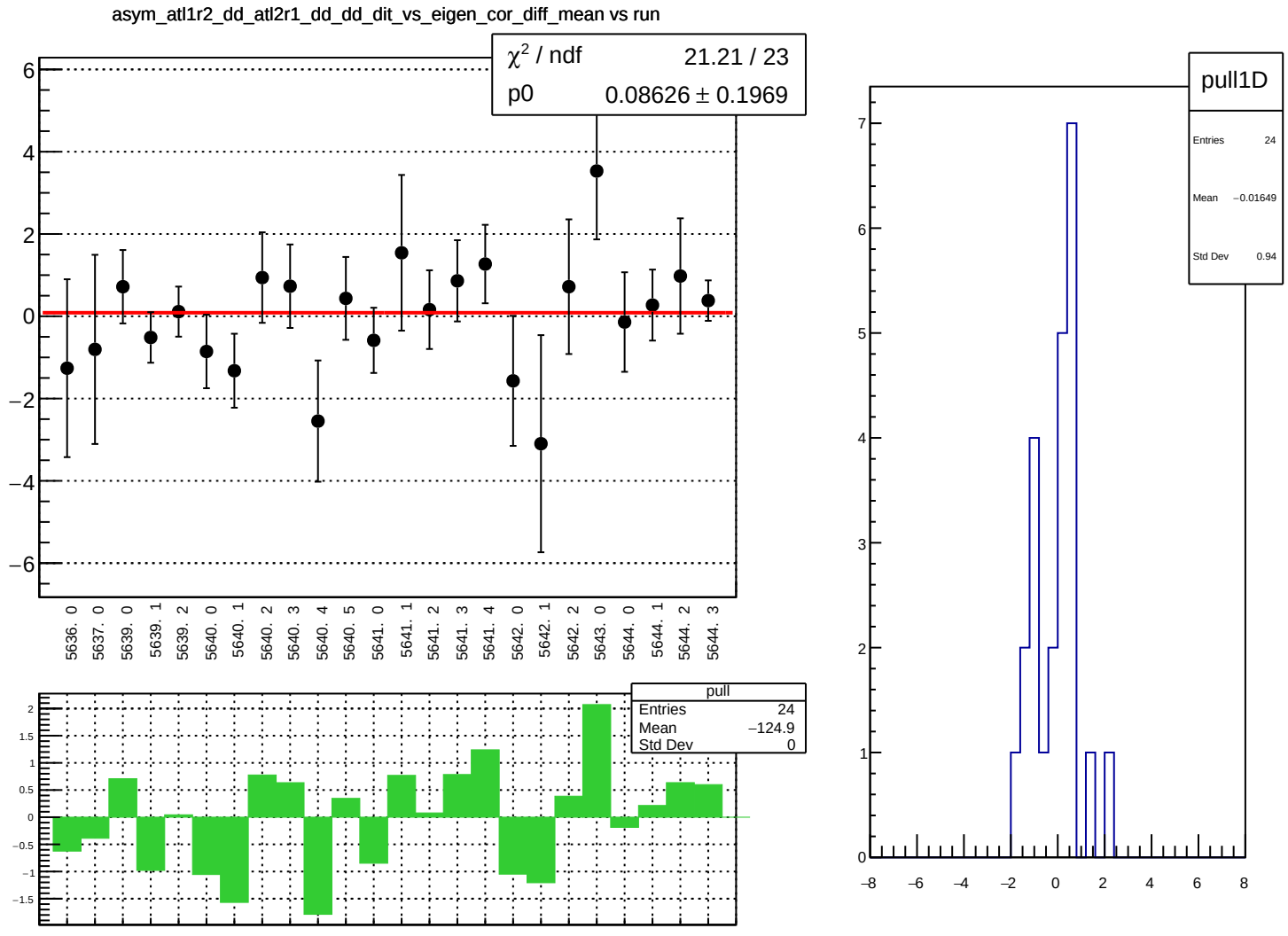

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 20.03 / 23
p0 −2.589e−13 ± 1.678e−13
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −29.57
Std Dev 0
3
2
1
0
−1

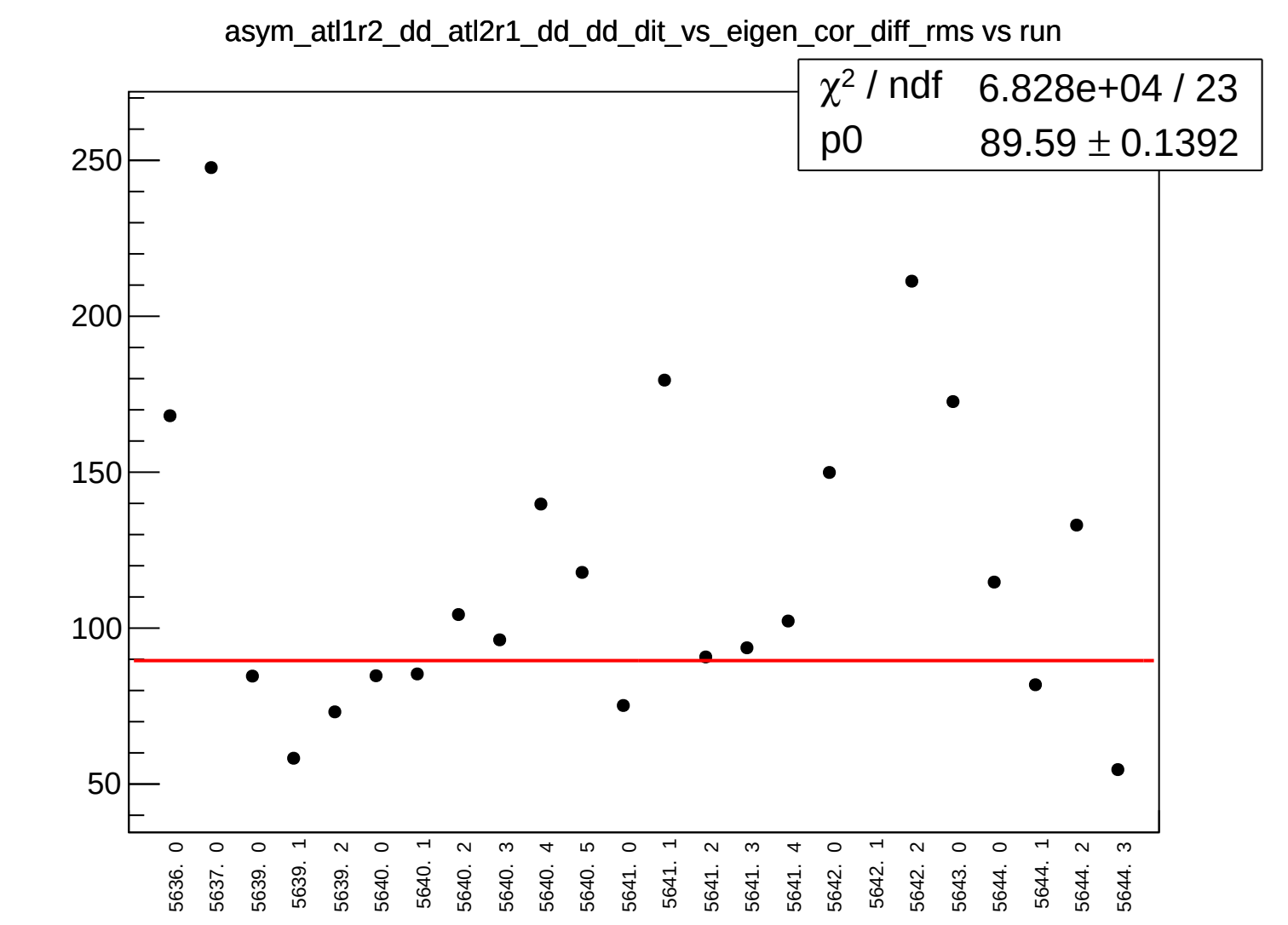

pull1D
Entries 24
Mean −0.04494
Std Dev 0.9125
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

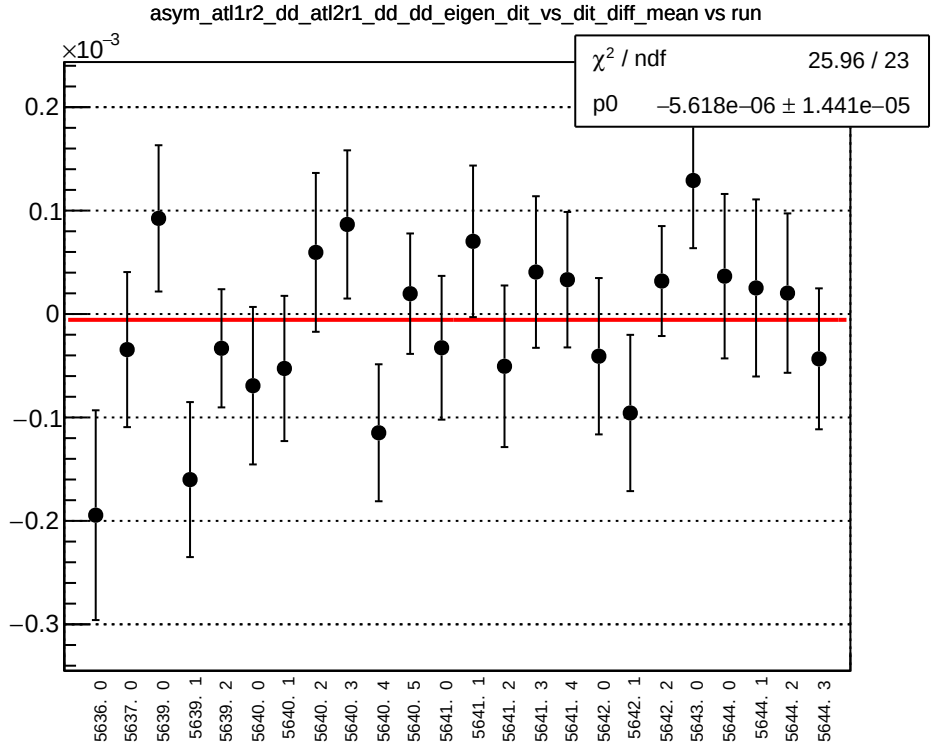

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.792e+05 / 23
p0 5.347e−11 ± 1.187e−13
0.5
0.4
0.3
0.2
0.1
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

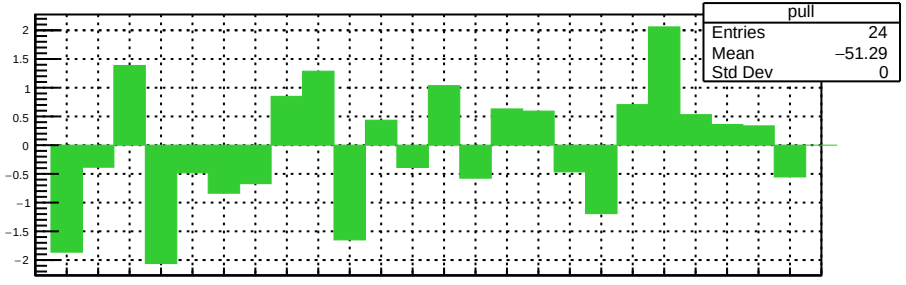

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 21.21 / 23
p0 0.08626 ± 0.1969
6
4
2
0
−2
−4
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −124.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.01649
Std Dev 0.94
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

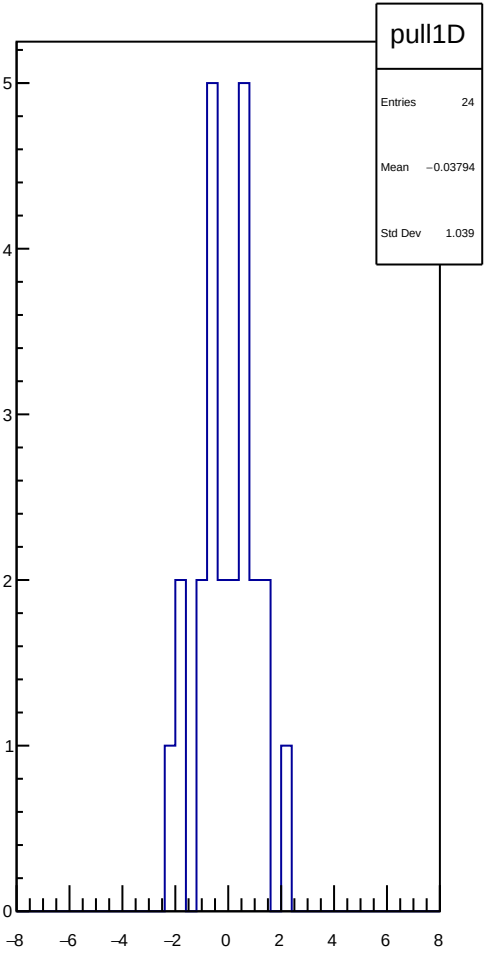

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.828e+04 / 23
p0 89.59 ± 0.1392
250
200
150
100
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

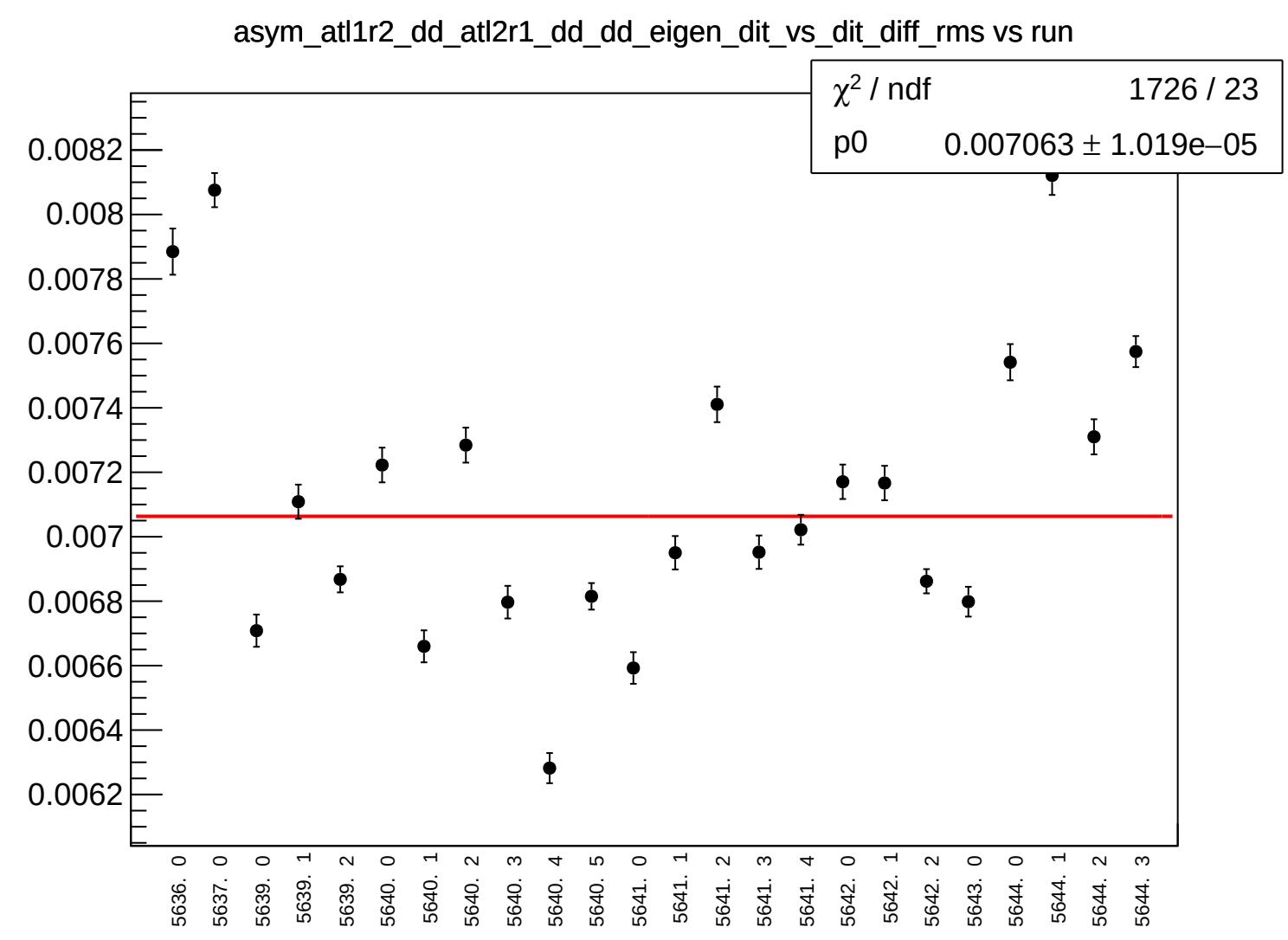

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 21.21 / 23
p0 0.08626 ± 0.1969
6
4
2
0
−2
−4
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −124.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.01649
Std Dev 0.94
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

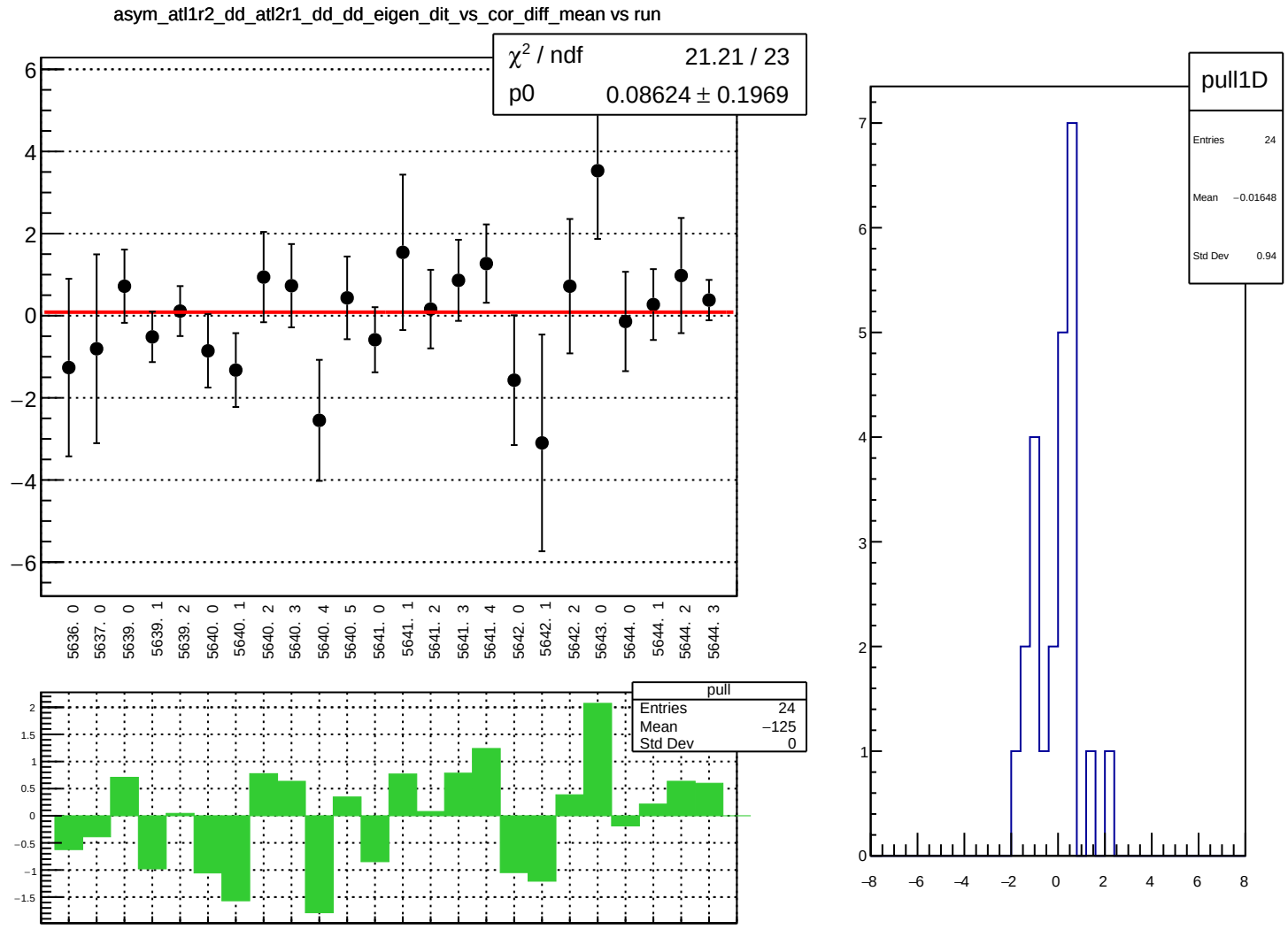

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.828e+04 / 23
p0 89.59 ± 0.1392
250
200
150
100
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

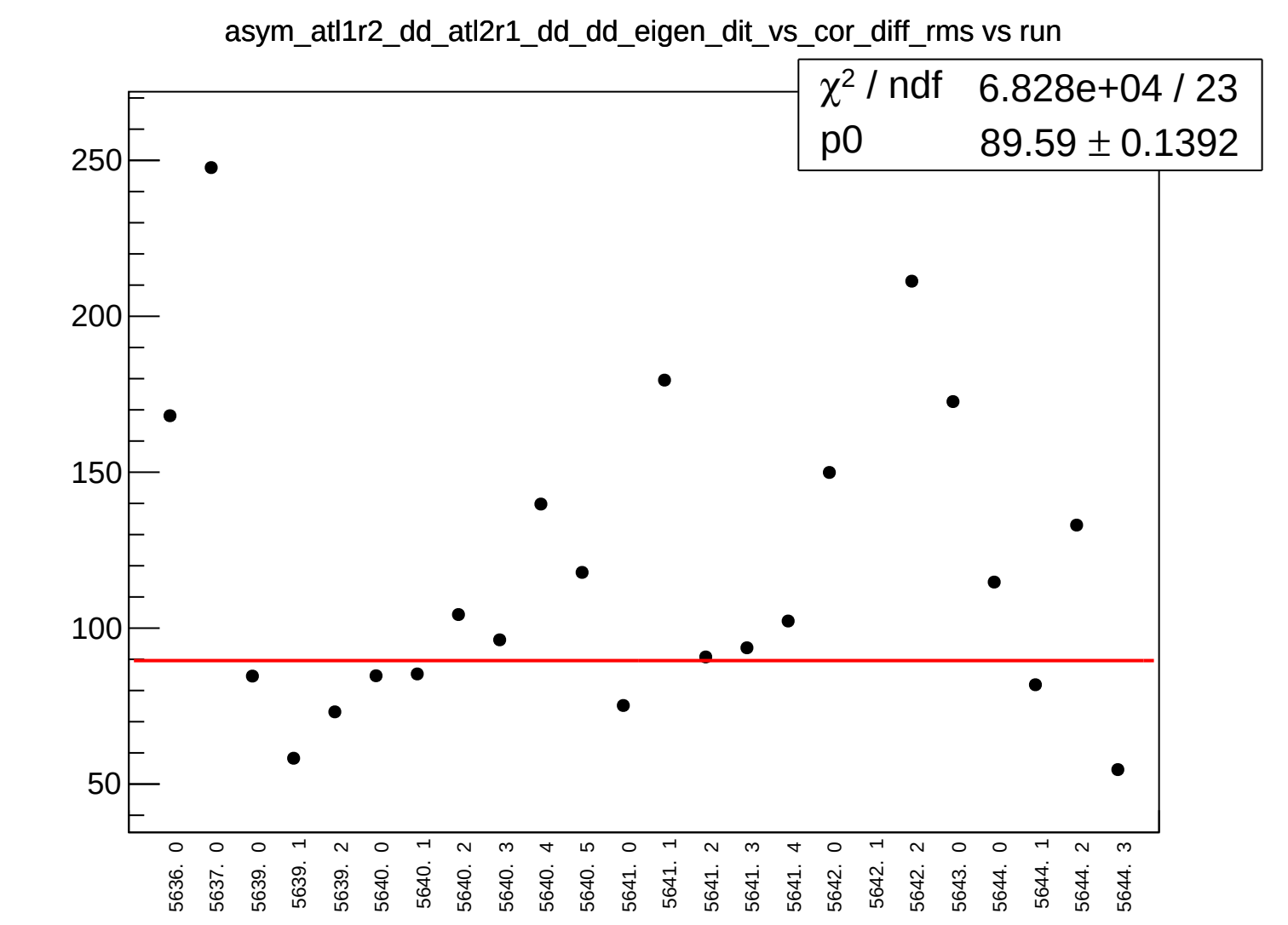

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 25.96 / 23
p0 −5.618e−06 ± 1.441e−05
0.2
0.1
0
−0.1
−0.2
−0.3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

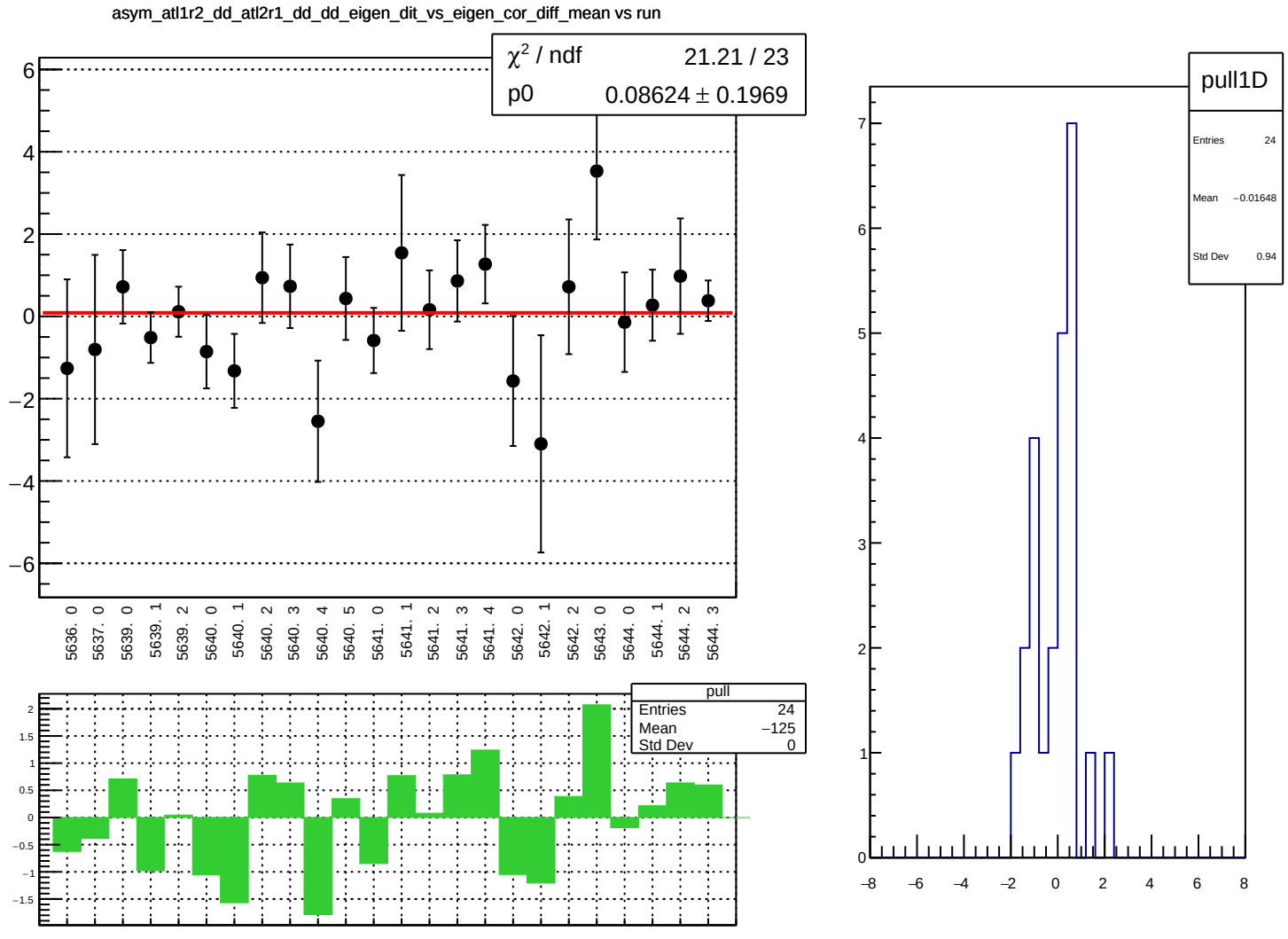

pull
Entries 24
Mean −51.29
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

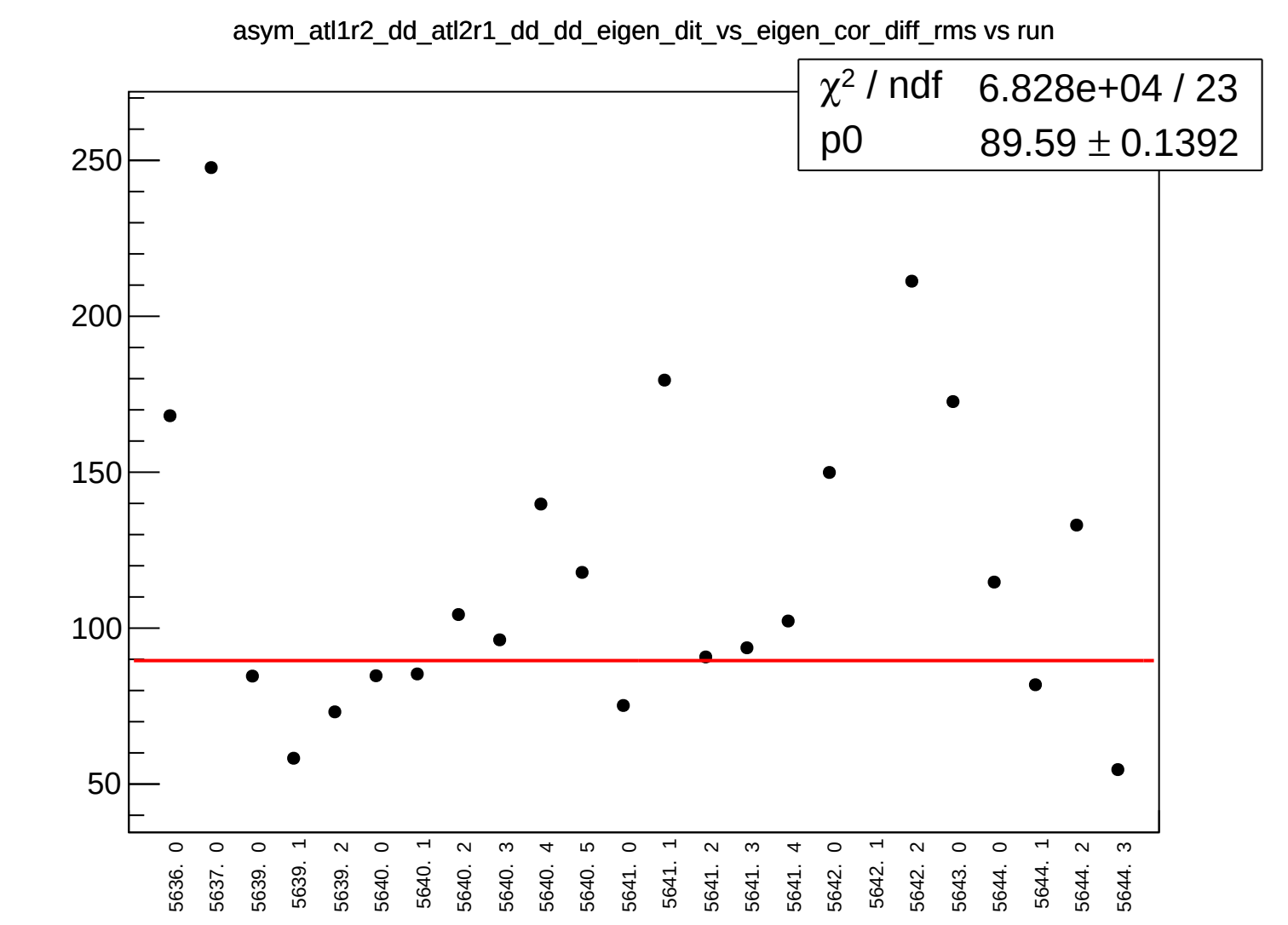

pull1D
Entries 24
Mean −0.03794
Std Dev 1.039
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

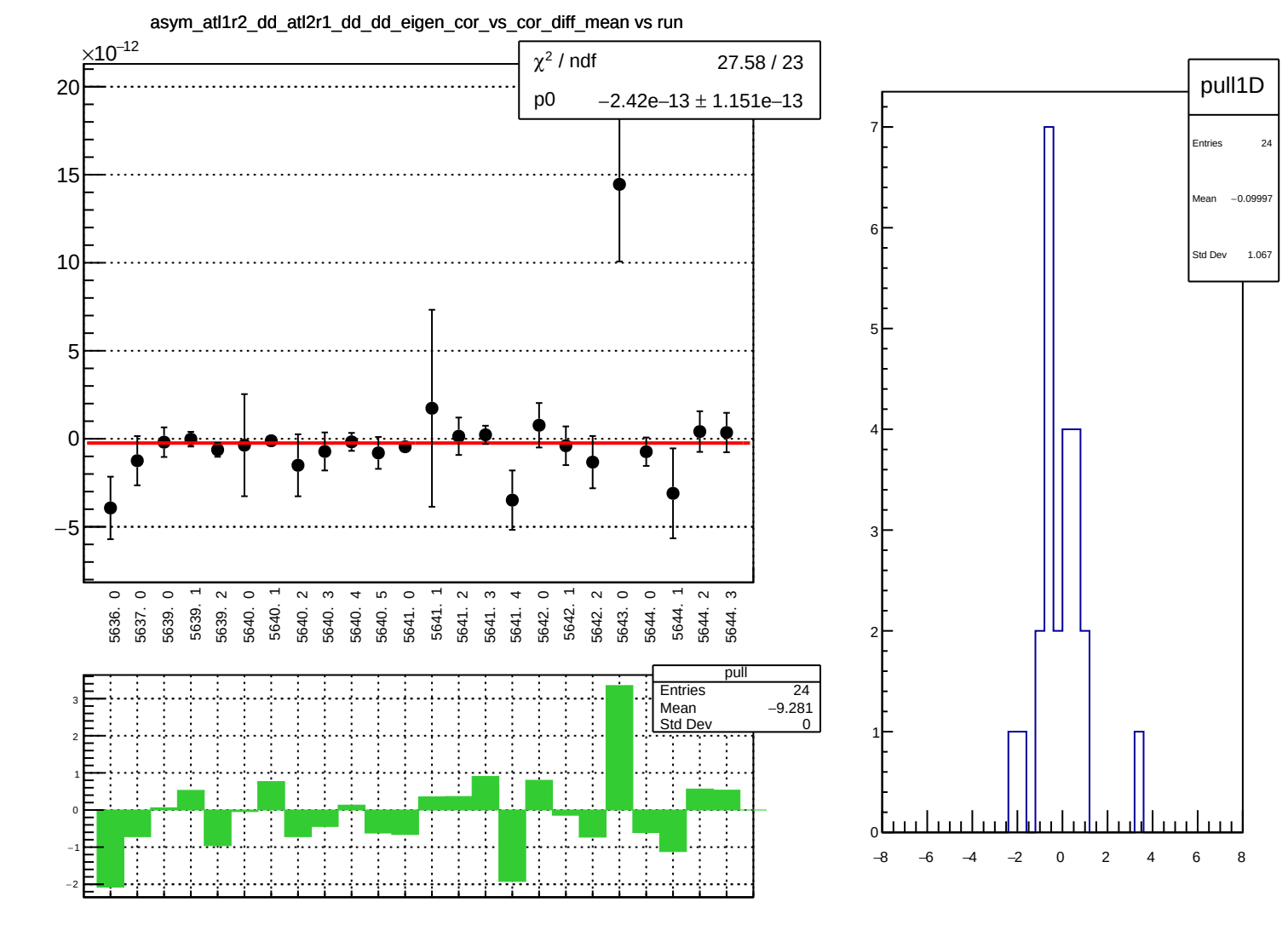

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1726 / 23
p0 0.007063 ± 1.019e−05
0.0082
0.008
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

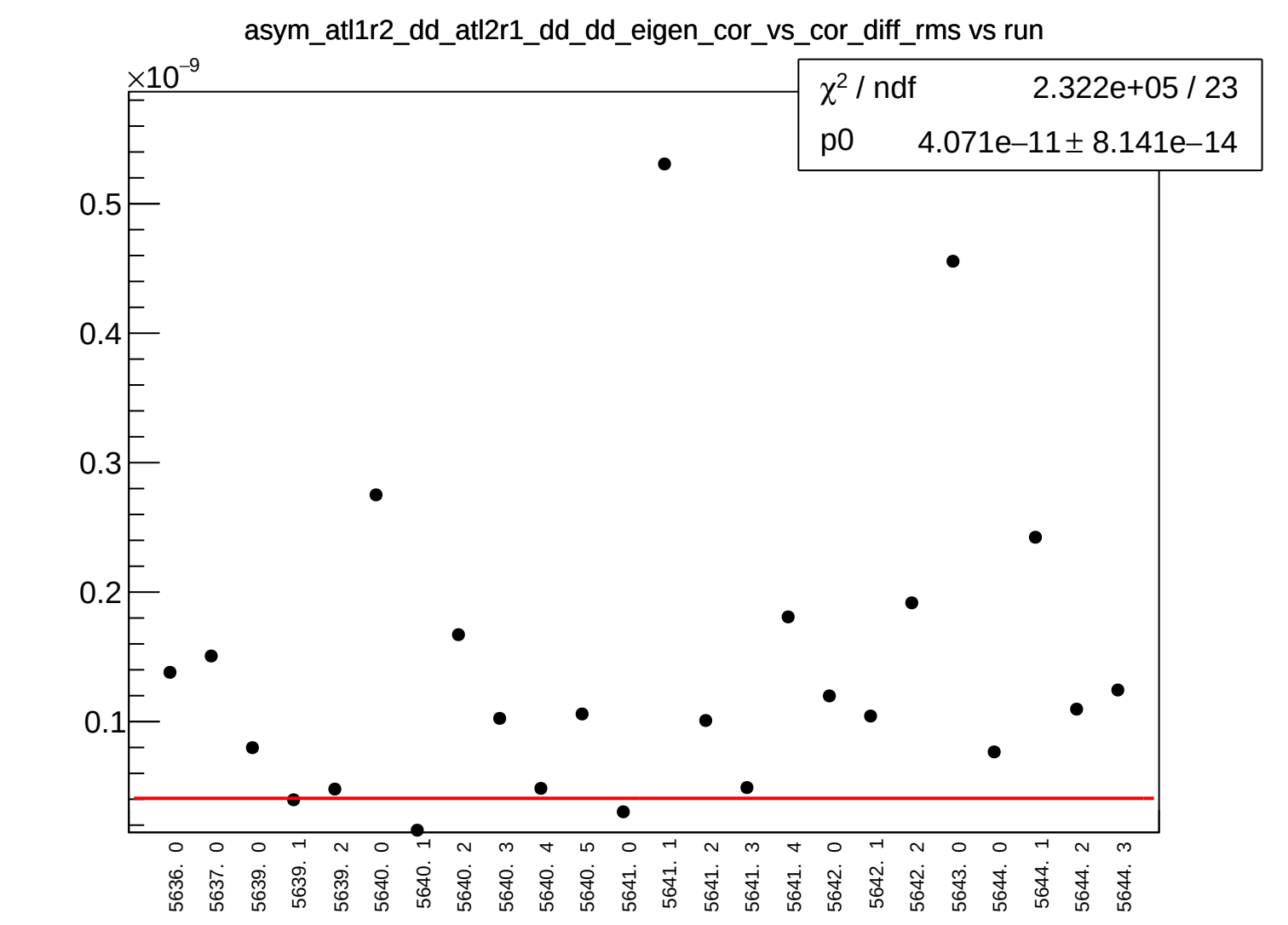

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 21.21 / 23
p0 0.08624 ± 0.1969
6
4
2
0
−2
−4
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −125
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.01648
Std Dev 0.94
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

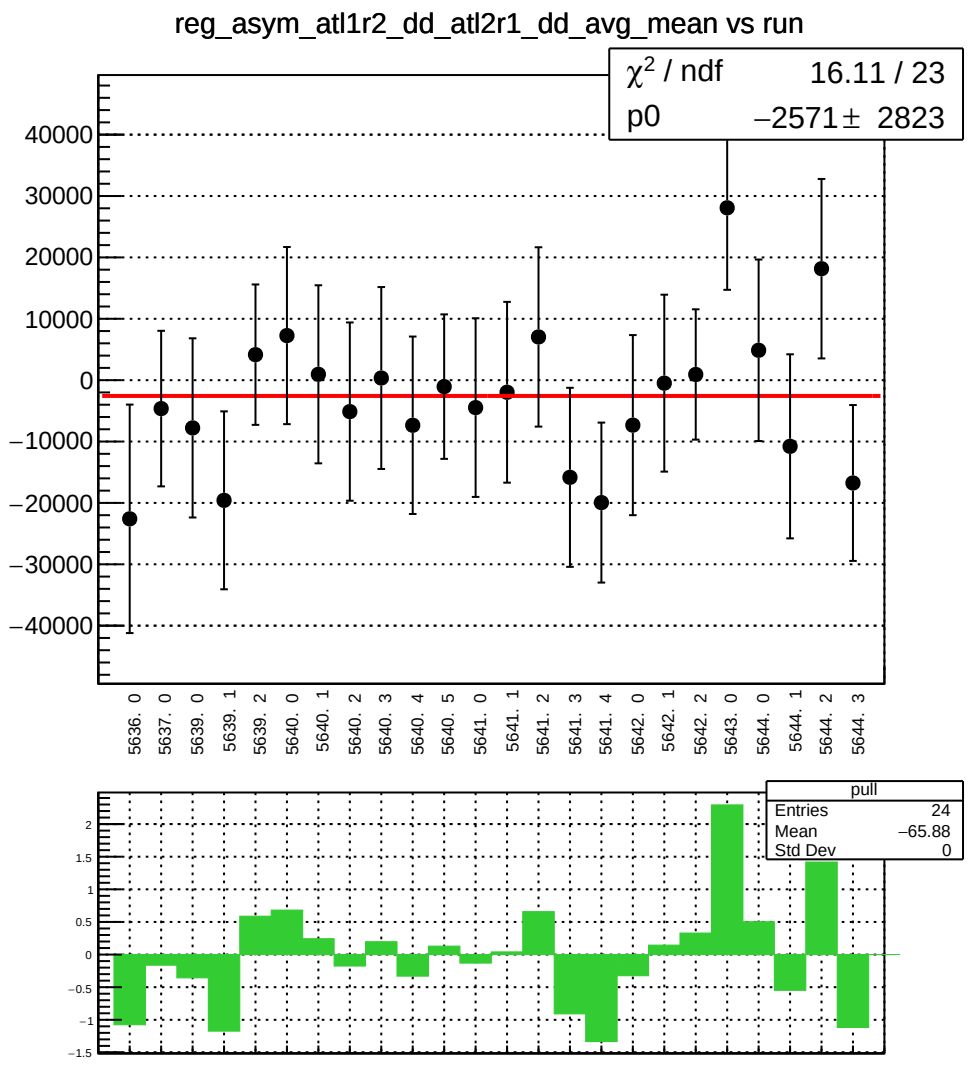

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.828e+04 / 23
p0 89.59 ± 0.1392
250
200
150
100
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

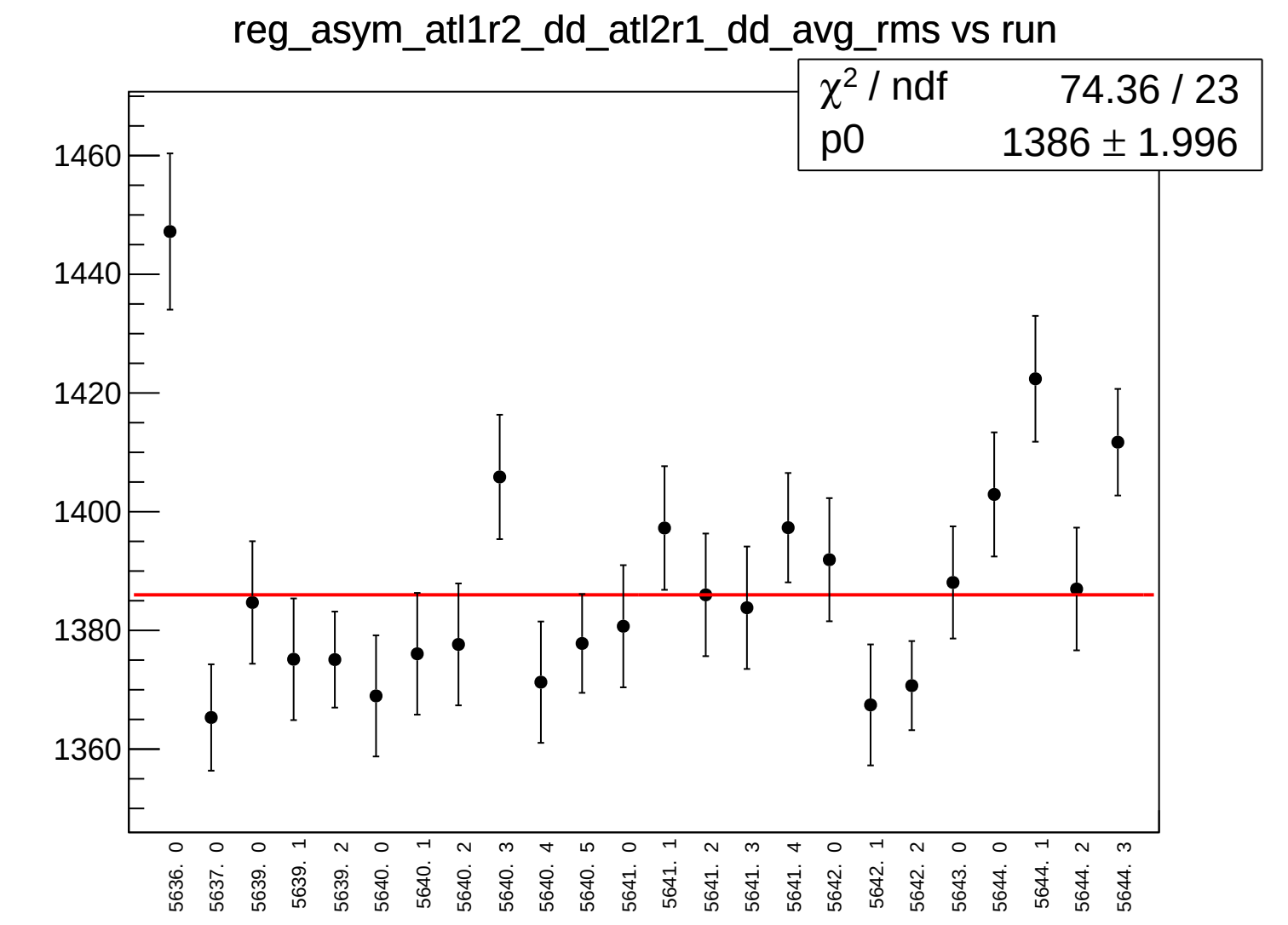

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 21.21 / 23
p0 0.08624 ± 0.1969
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −125
Std Dev 0
pull1D
Entries 24
Mean −0.01648
Std Dev 0.94

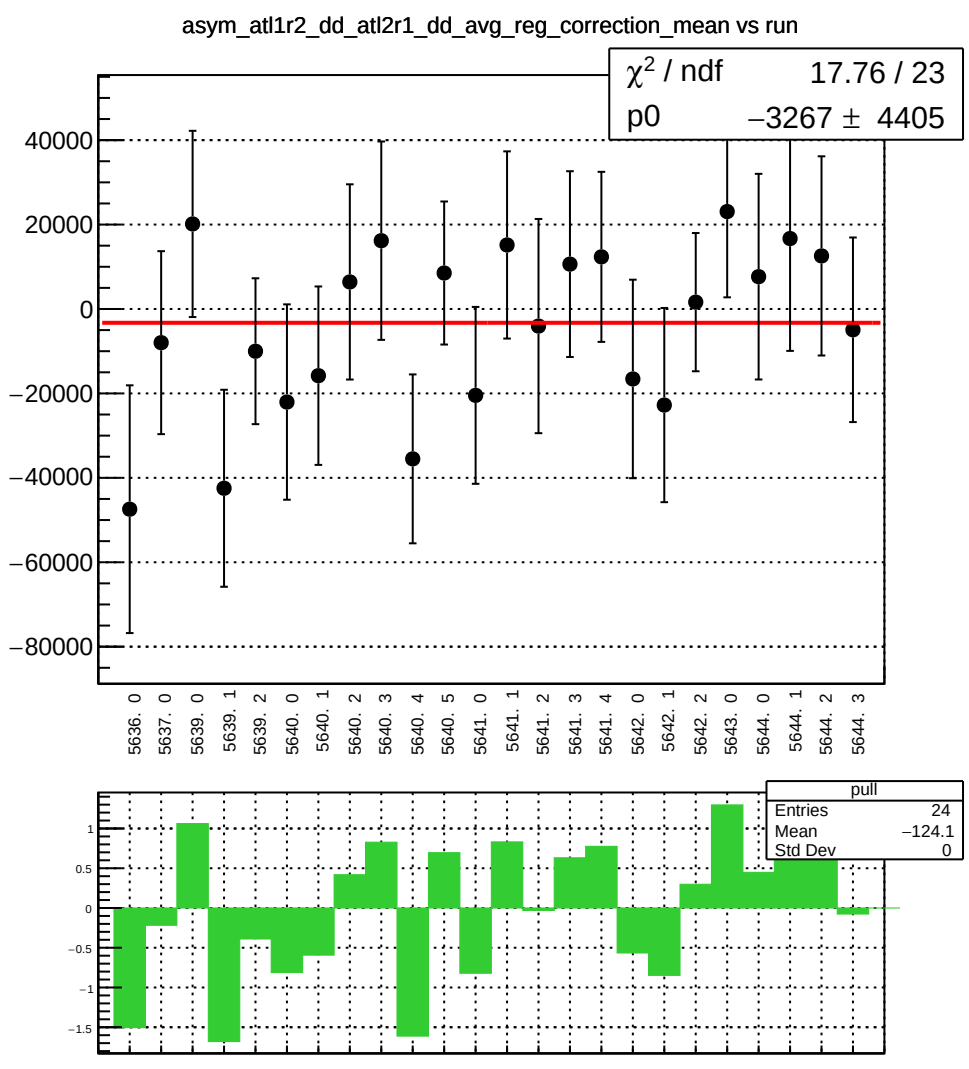

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.828e+04 / 23
p0 89.59 ± 0.1392
250
200
150
100
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

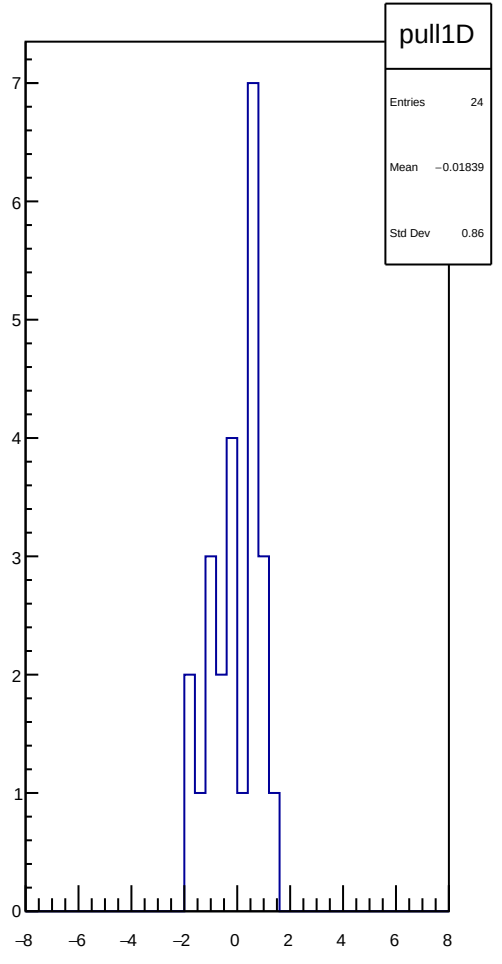

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 27.58 / 23
p0 −2.42e−13 ± 1.151e−13
20
15
10
5
0
−5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −9.281
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 24
Mean −0.09997
Std Dev 1.067
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

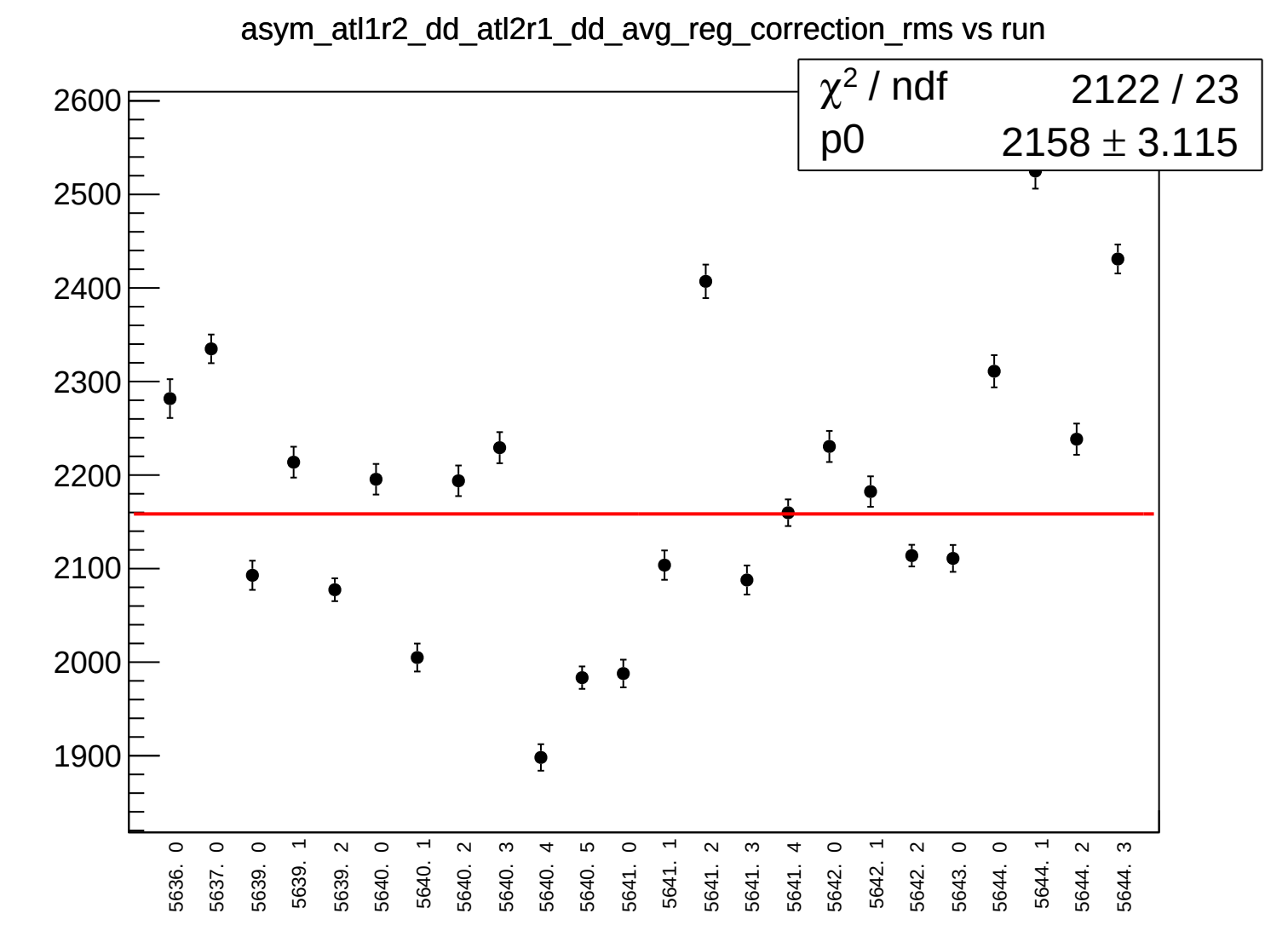

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.322e+05 / 23
p0 4.071e−11 ± 8.141e−14
0.5
0.4
0.3
0.2
0.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

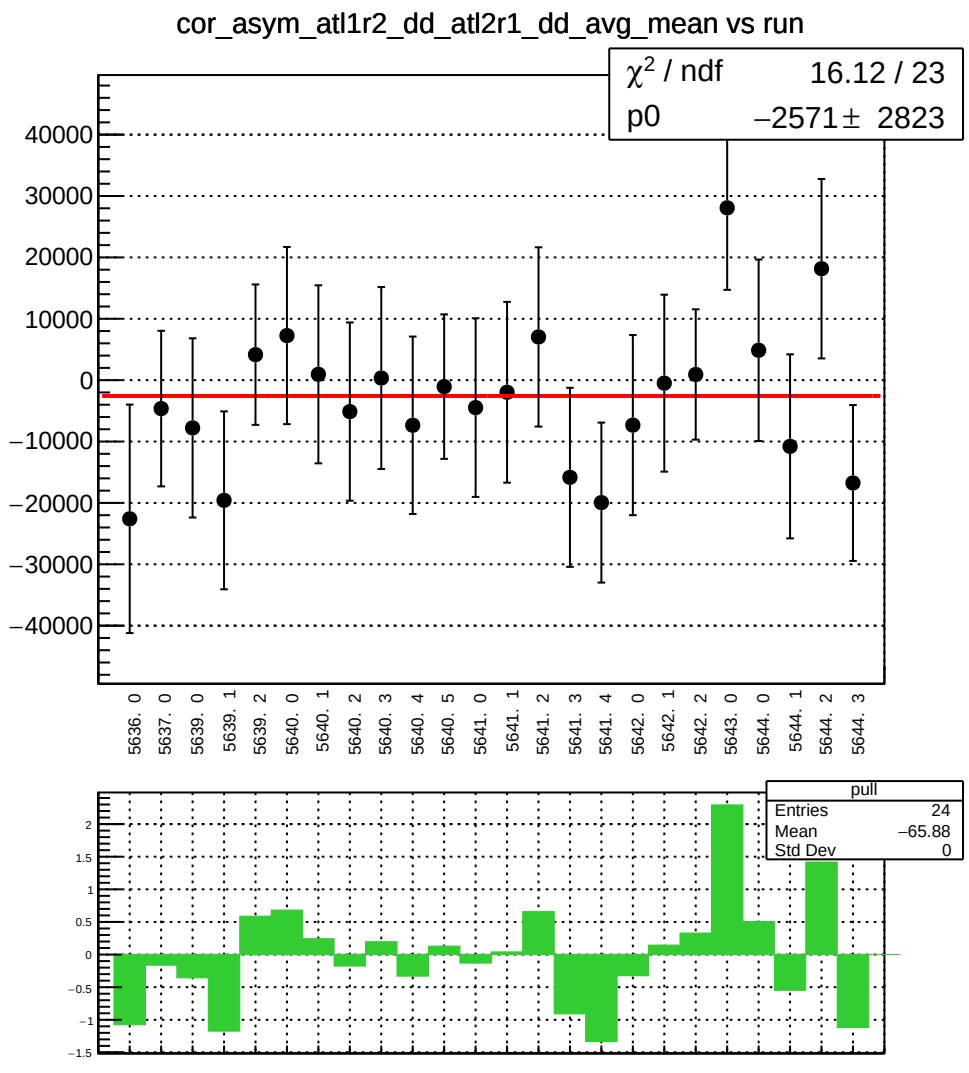

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 16.11 / 23
p0 −2571 ± 2823
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −65.88
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.01708
Std Dev 0.8192
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

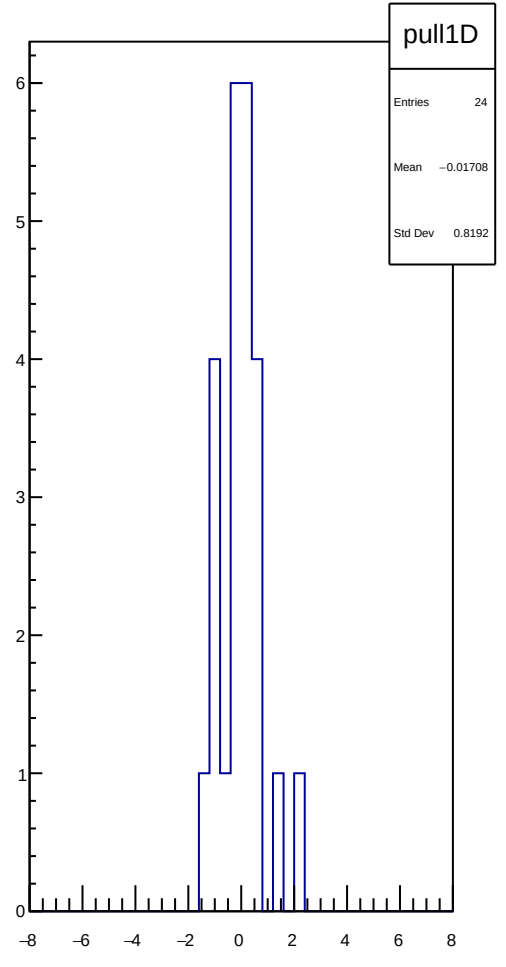

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 74.36 / 23
p0 1386 ± 1.996
1460
1440
1420
1400
1380
1360
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

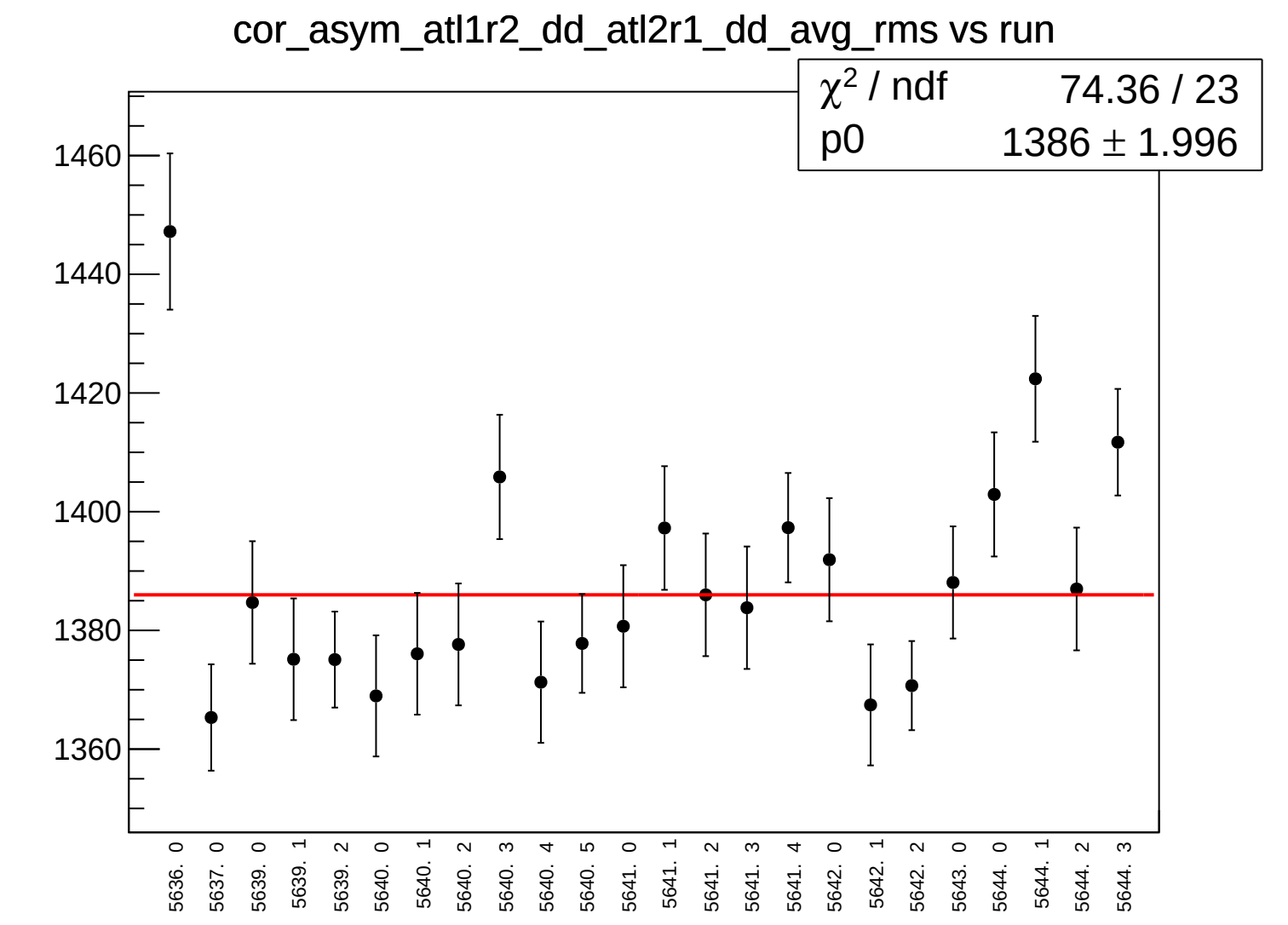

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 17.76 / 23
p0 −3267 ± 4405
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −124.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

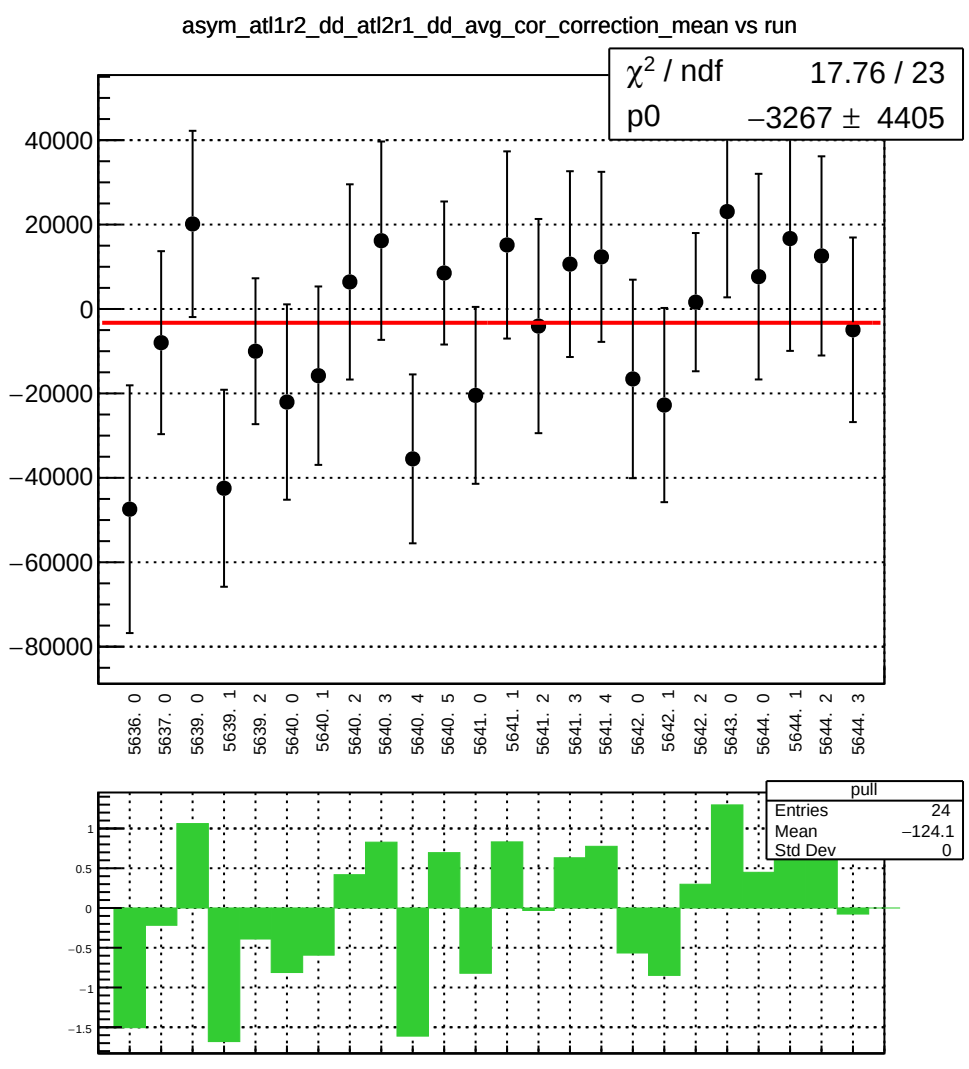

pull1D
Entries 24
Mean −0.01839
Std Dev 0.86
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

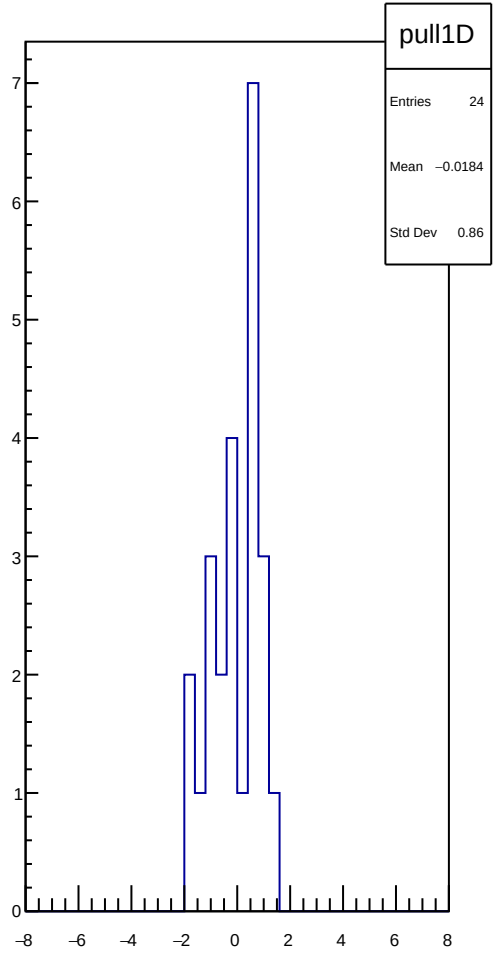

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 2122 / 23
p0 2158 ± 3.115
2600
2500
2400
2300
2200
2100
2000
1900
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

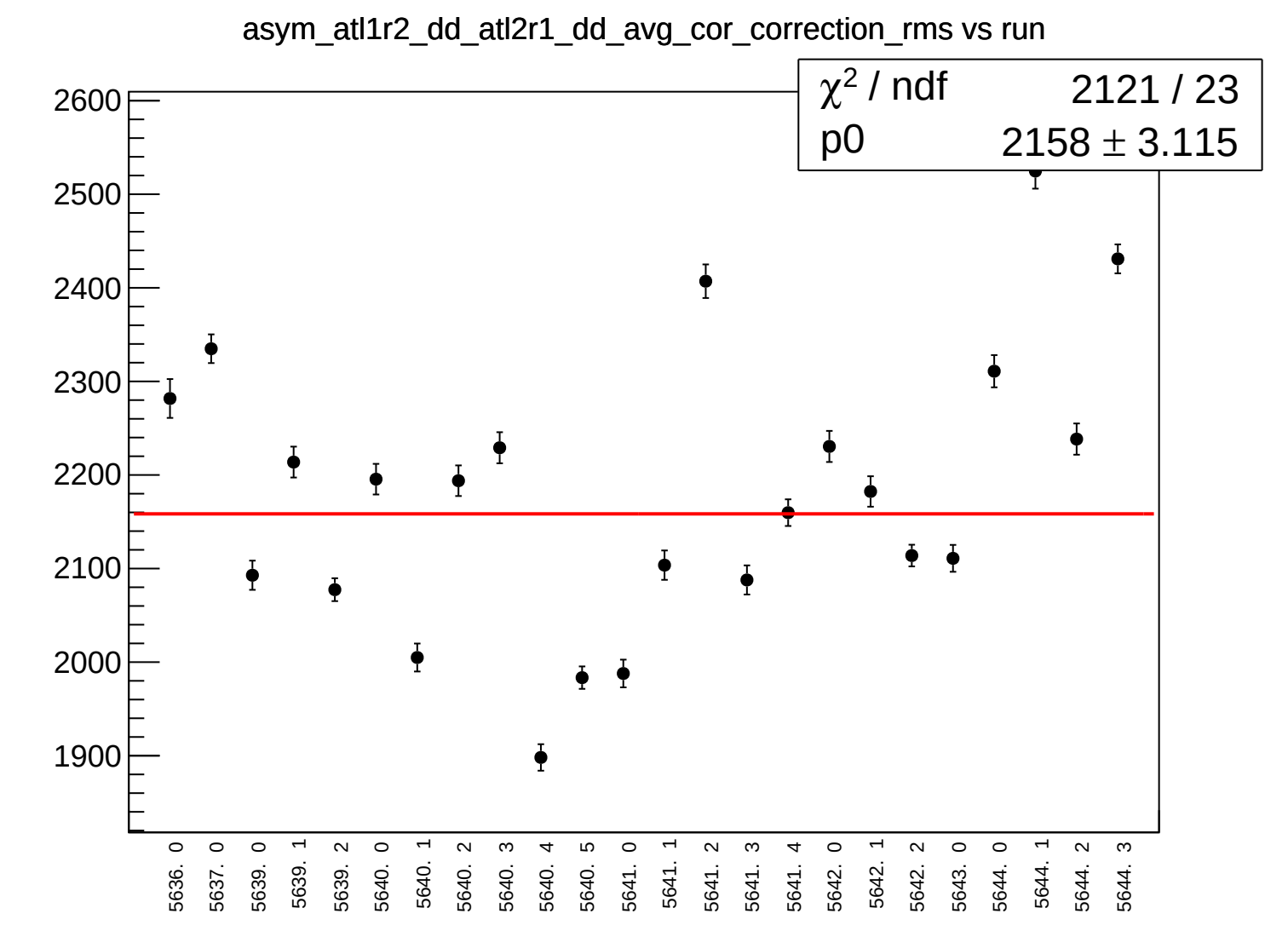

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 16.12 / 23
p0 −2571 ± 2823
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −65.88
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

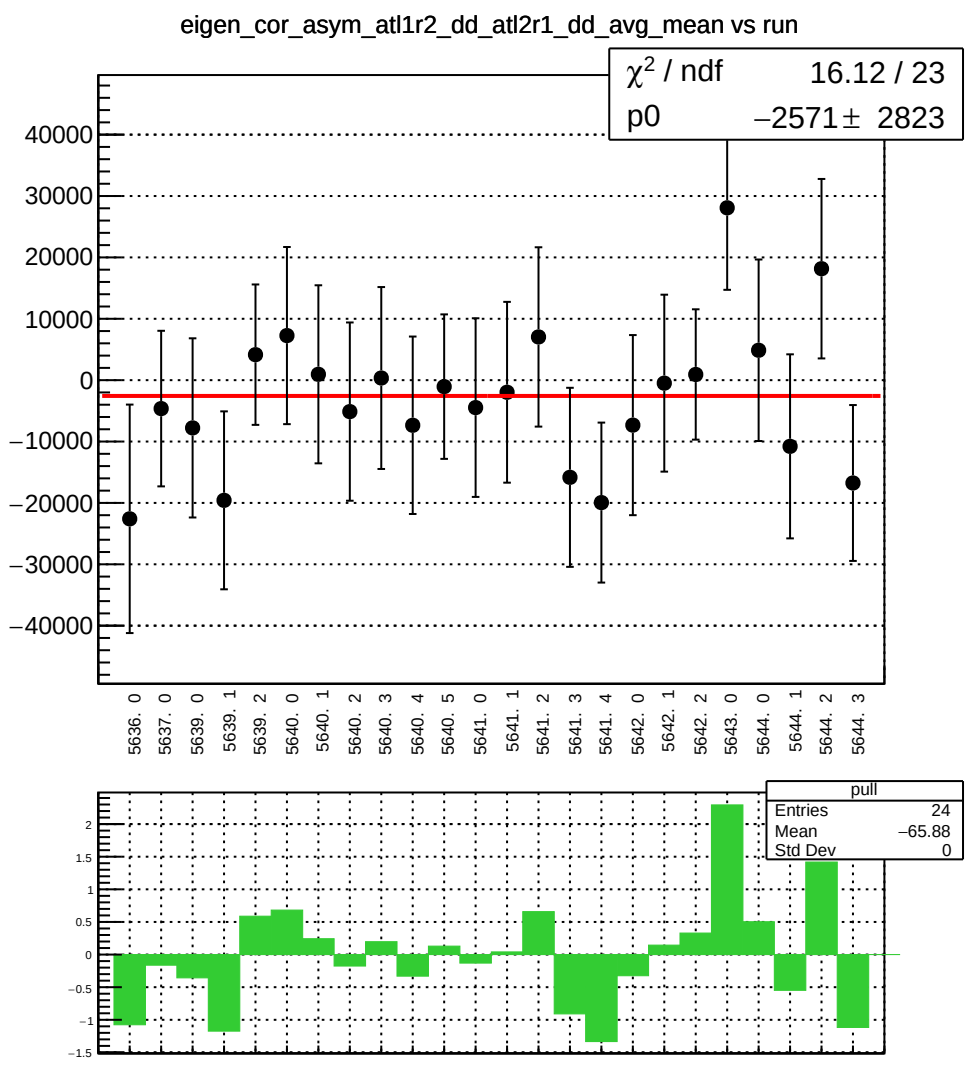

pull1D
Entries 24
Mean −0.01708
Std Dev 0.8192
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

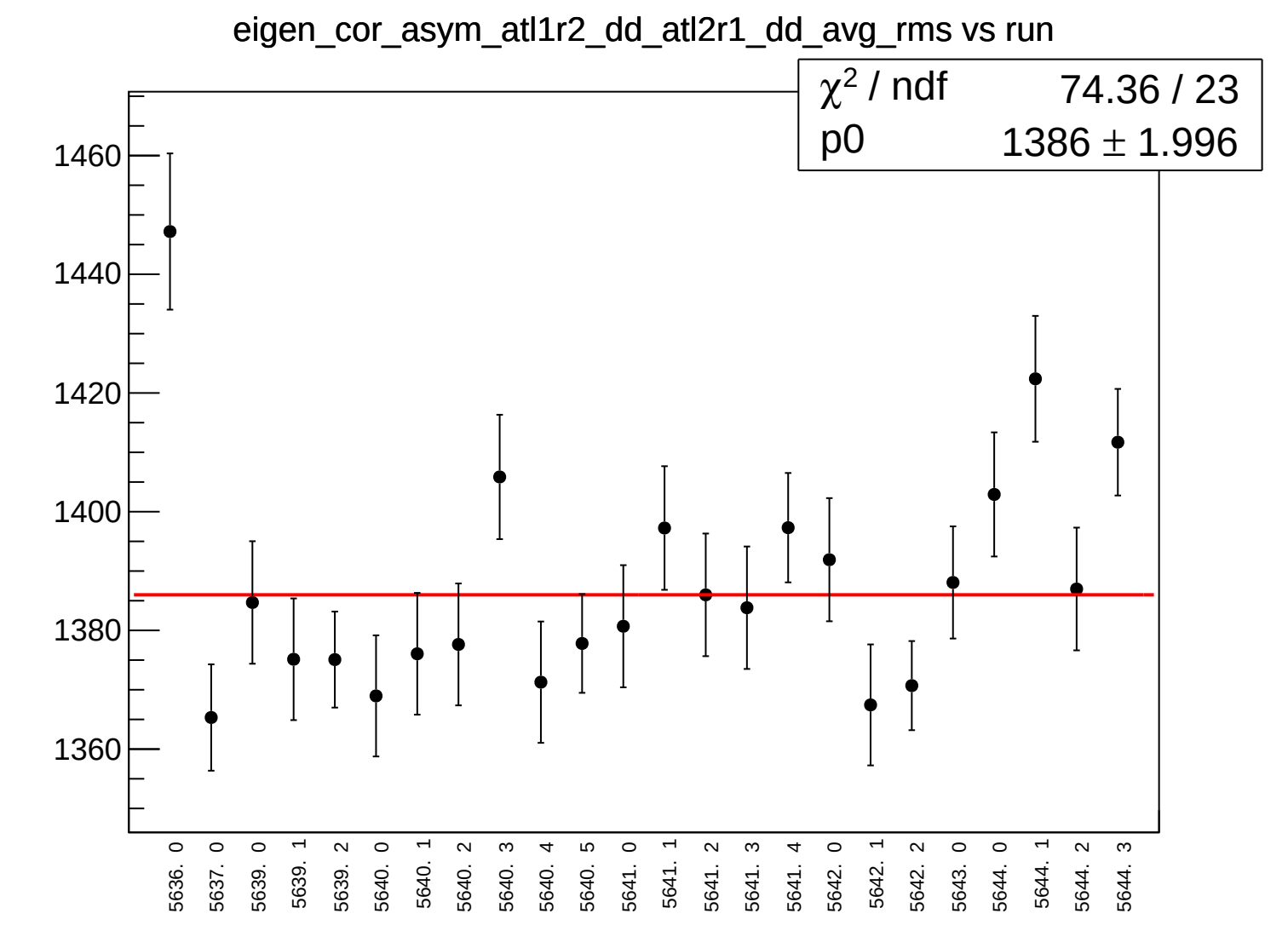

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 74.36 / 23
p0 1386 ± 1.996
1460
1440
1420
1400
1380
1360
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

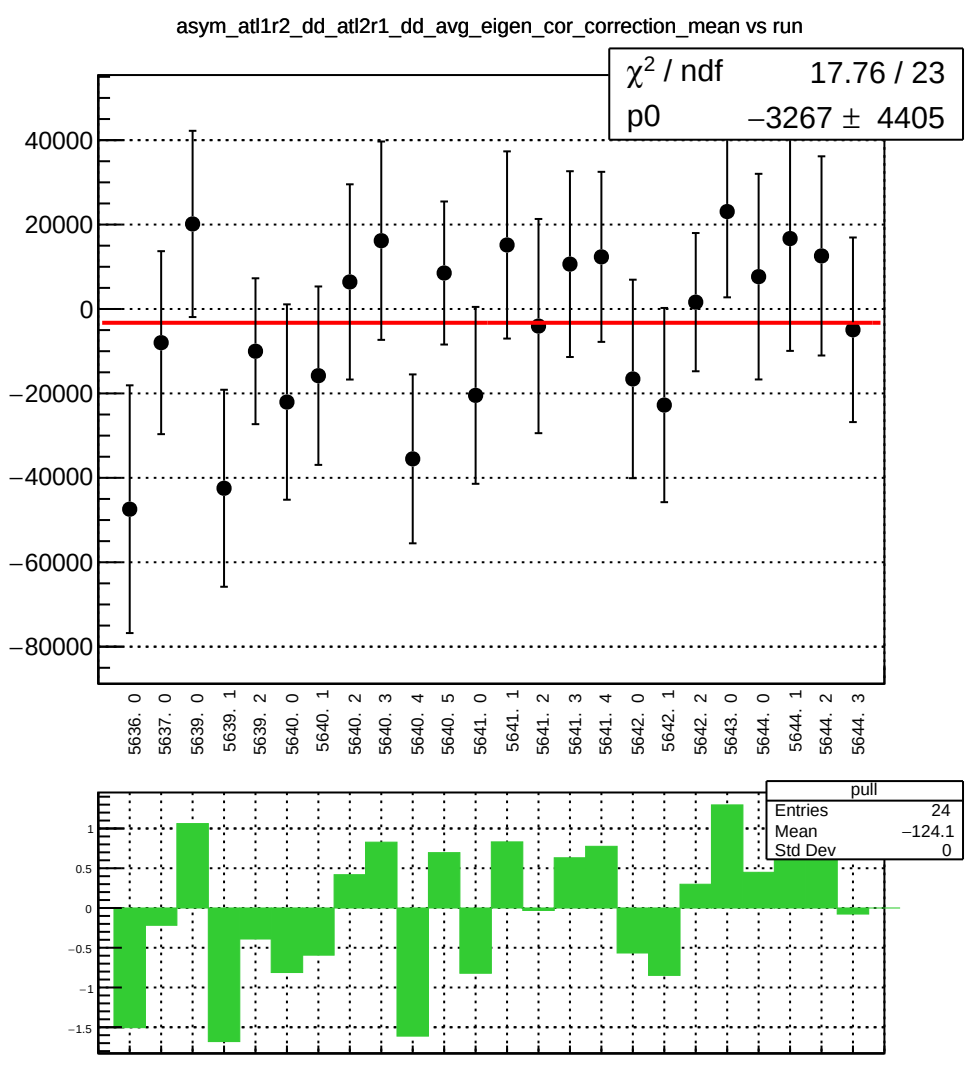

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 17.76 / 23
p0 −3267 ± 4405
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −124.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

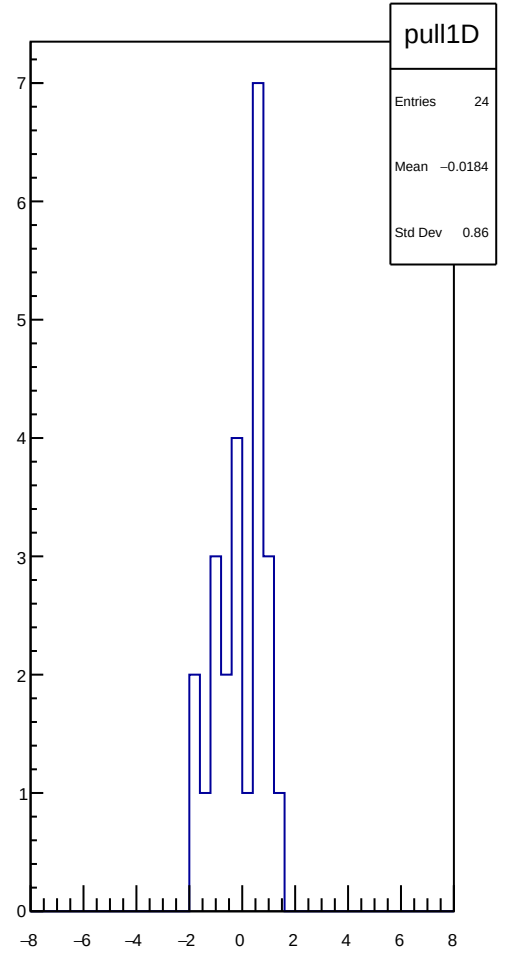

pull1D
Entries 24
Mean −0.0184
Std Dev 0.86
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

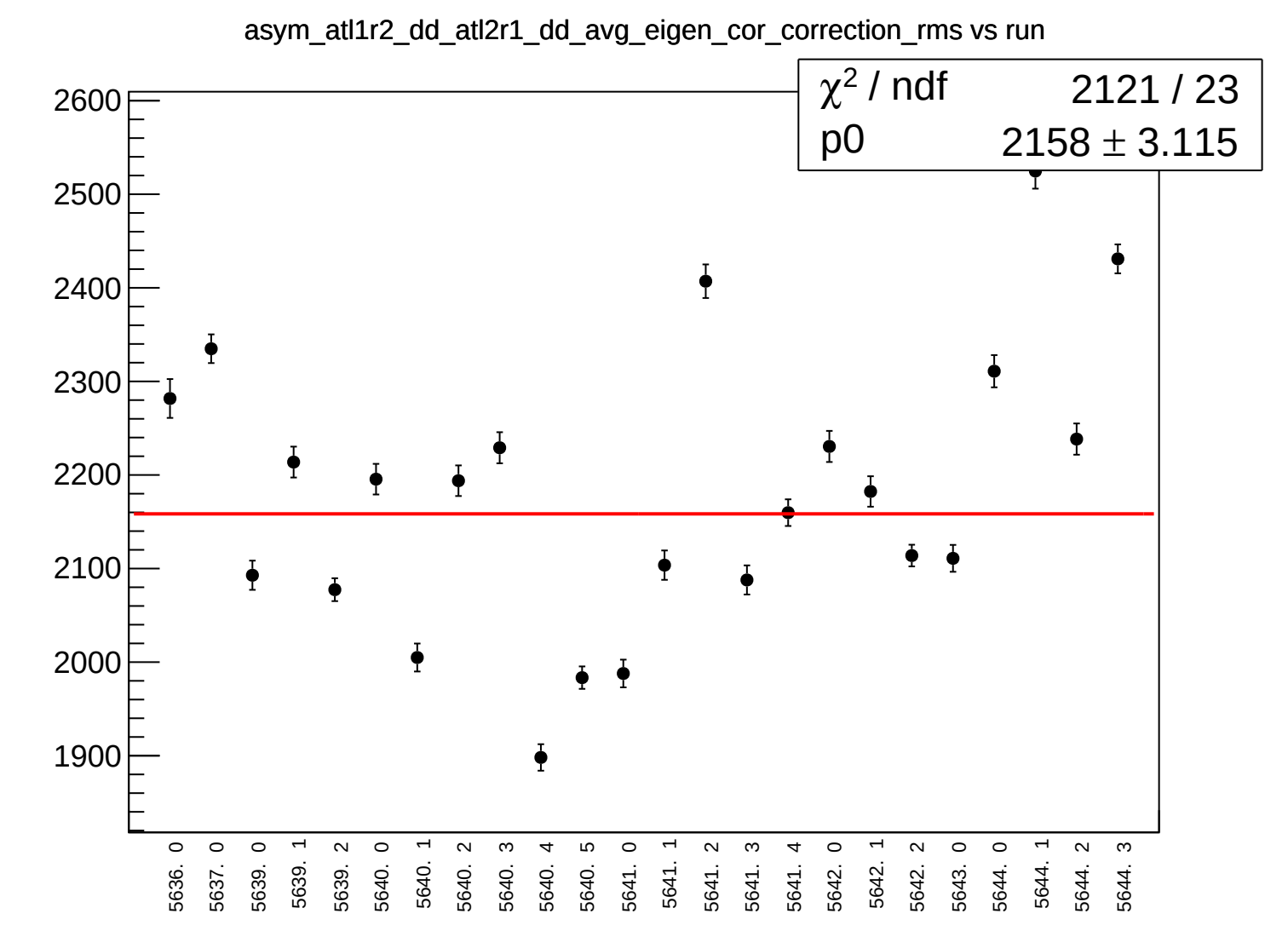

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 2121 / 23
p0 2158 ± 3.115
2600
2500
2400
2300
2200
2100
2000
1900
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

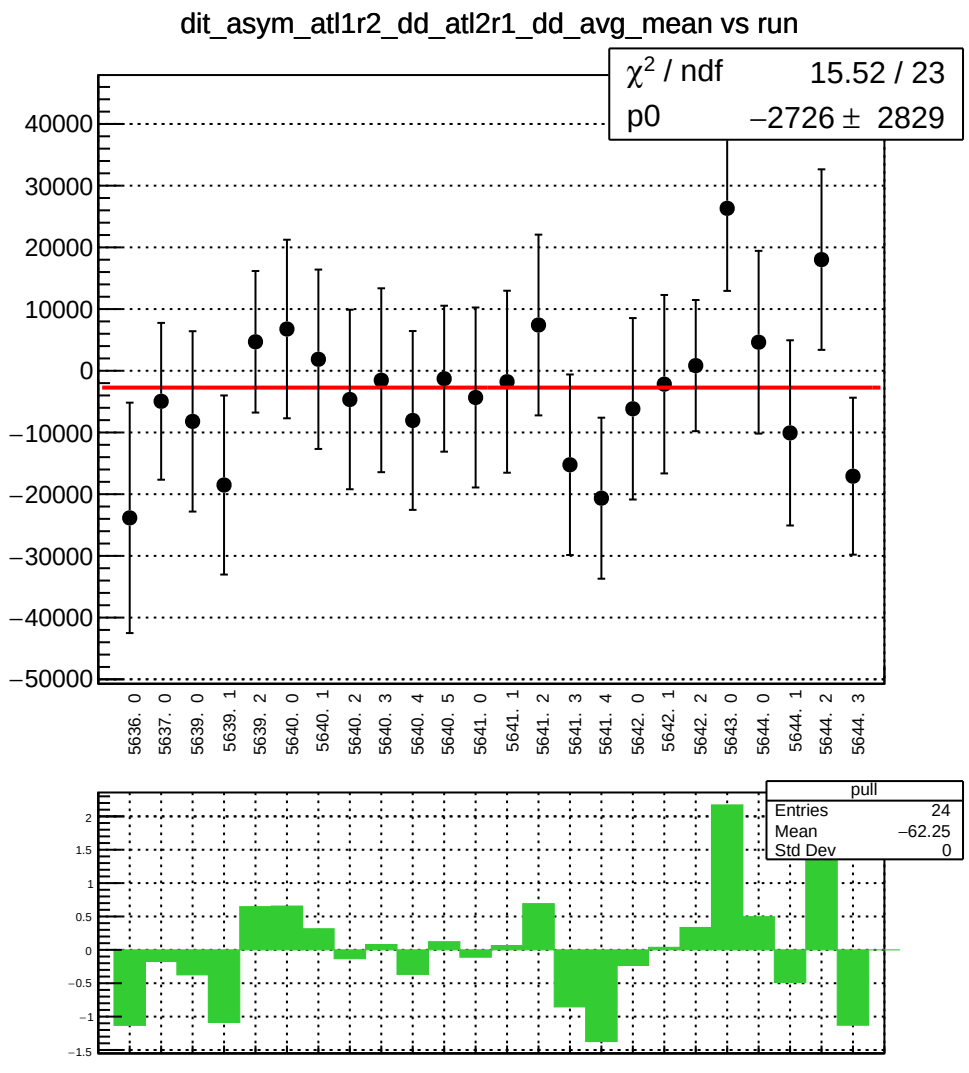

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 16.12 / 23
p0 −2571 ± 2823
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −65.88
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.01708
Std Dev 0.8192
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

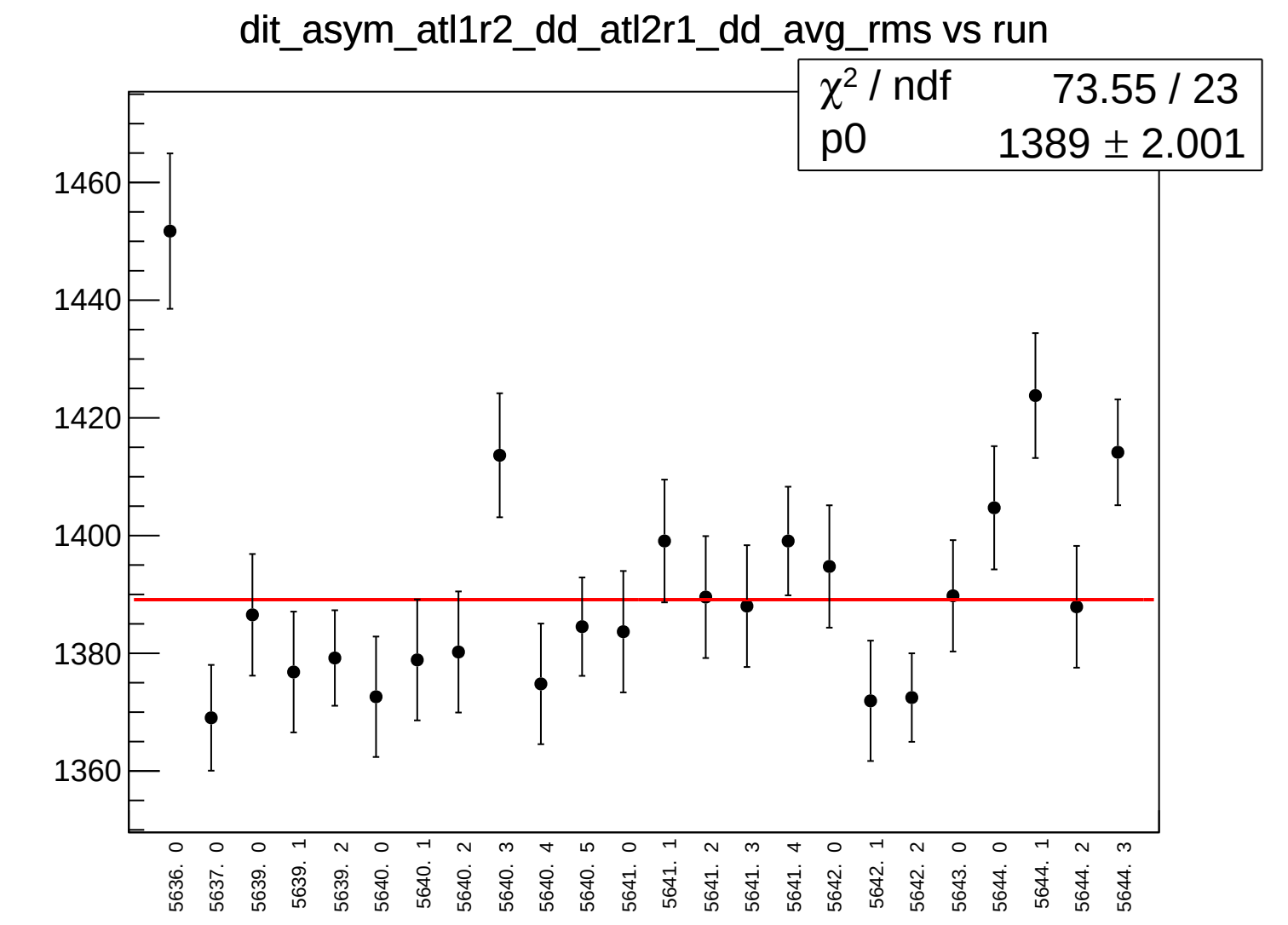

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 74.36 / 23
p0 1386 ± 1.996
1460
1440
1420
1400
1380
1360
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

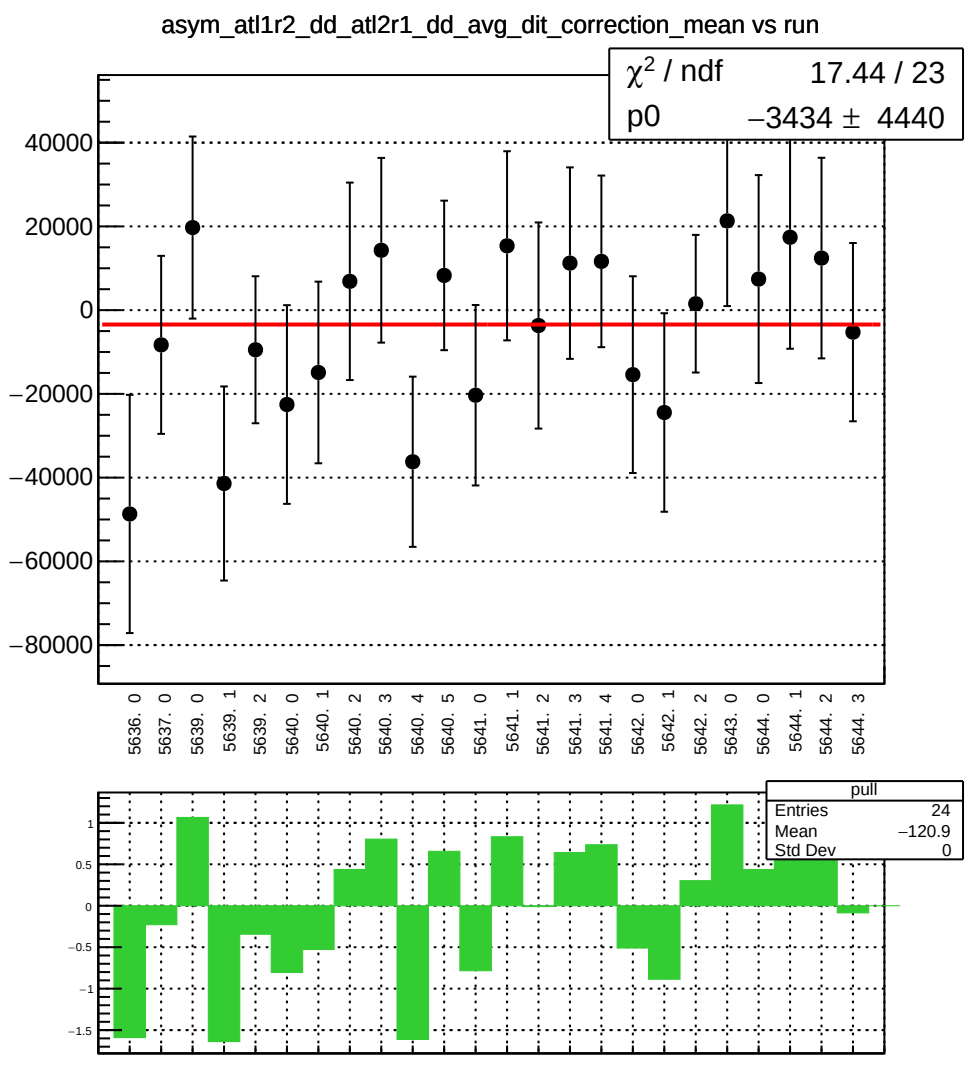

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 17.76 / 23
p0 −3267 ± 4405
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −124.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

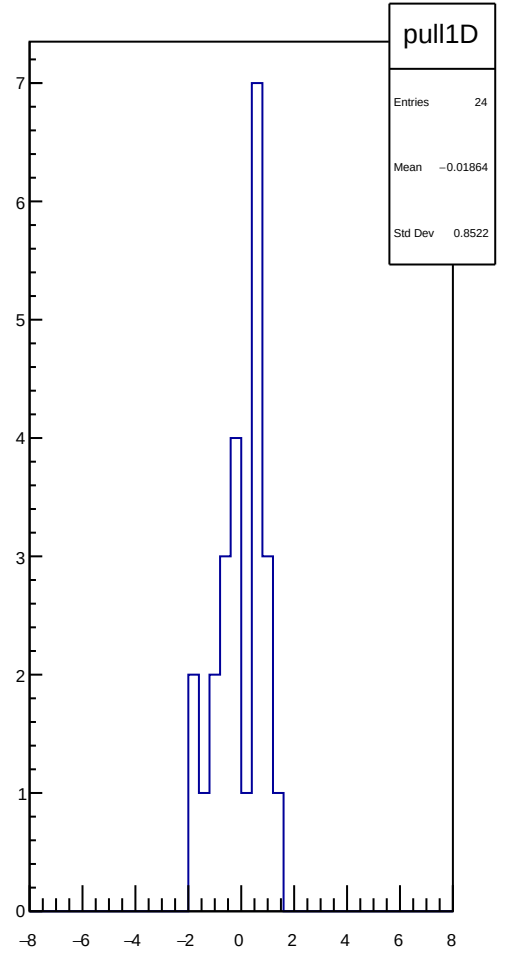

pull1D
Entries 24
Mean −0.0184
Std Dev 0.86
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

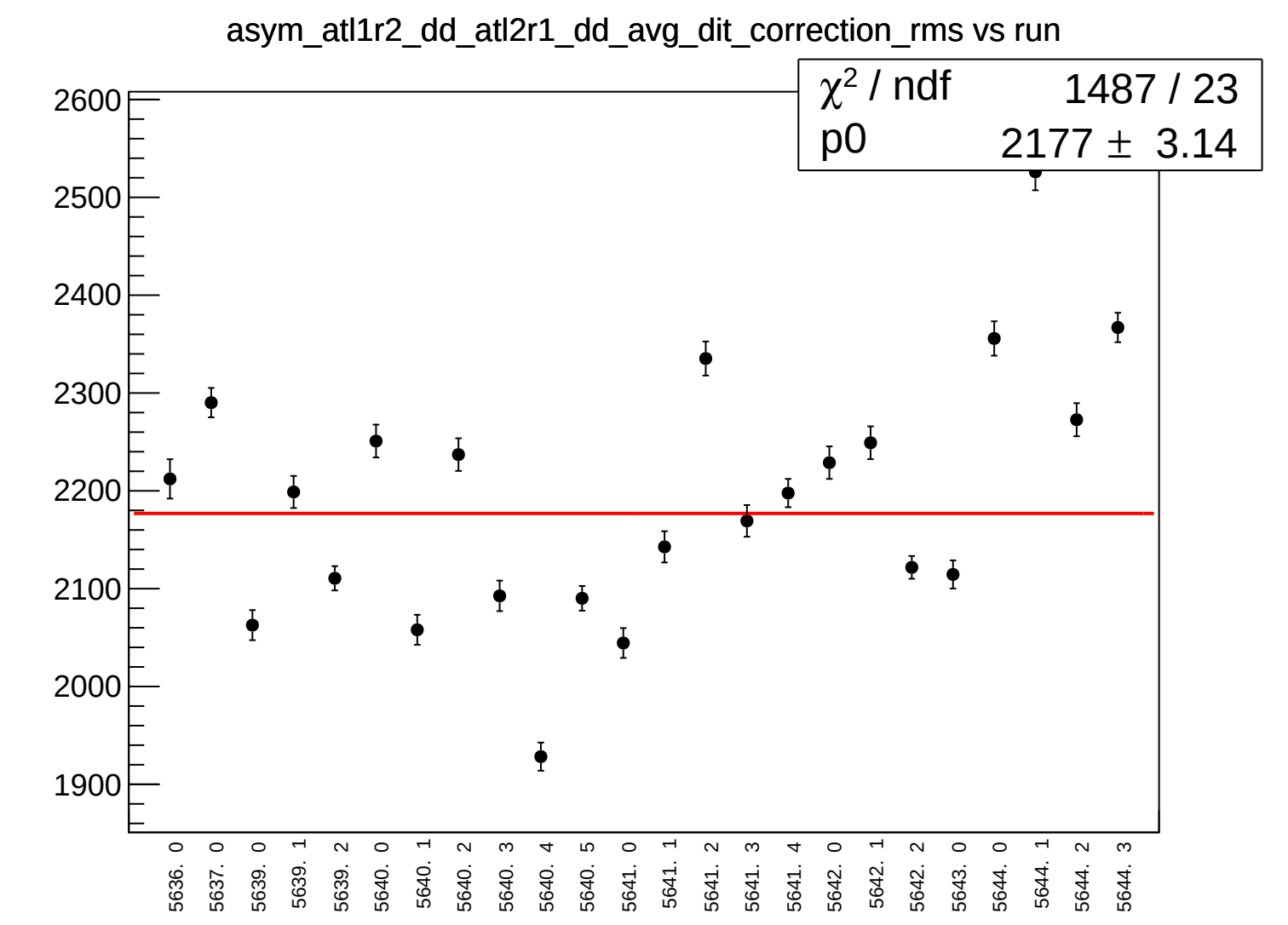

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2121 / 23
p0 2158 ± 3.115
2600
2500
2400
2300
2200
2100
2000
1900
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 15.52 / 23
p0 −2726 ± 2829
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −62.25
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.01747
Std Dev 0.8041
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 73.55 / 23
p0 1389 ± 2.001
1460
1440
1420
1400
1380
1360
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 17.44 / 23
p0 −3434 ± 4440
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −120.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean −0.01864
Std Dev 0.8522
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 1487 / 23
p0 2177 ± 3.14
2600
2500
2400
2300
2200
2100
2000
1900
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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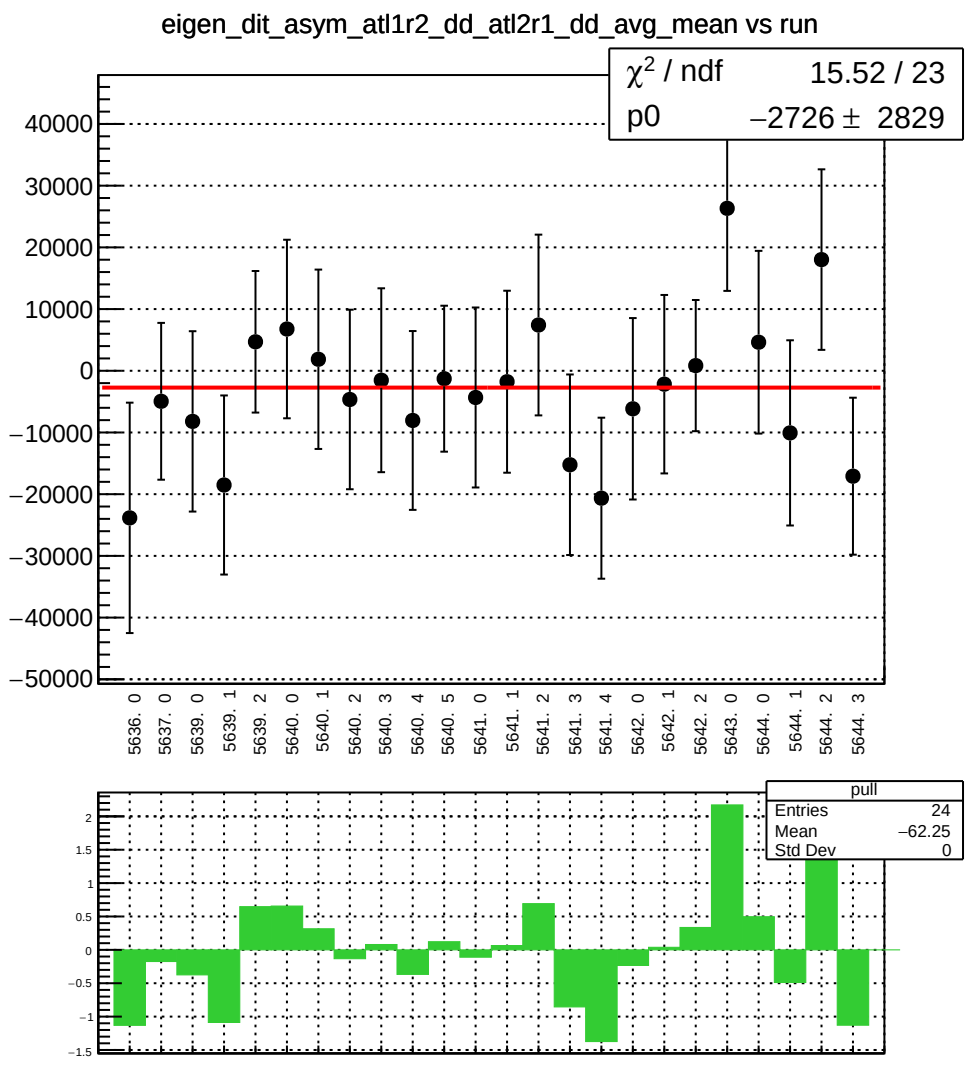
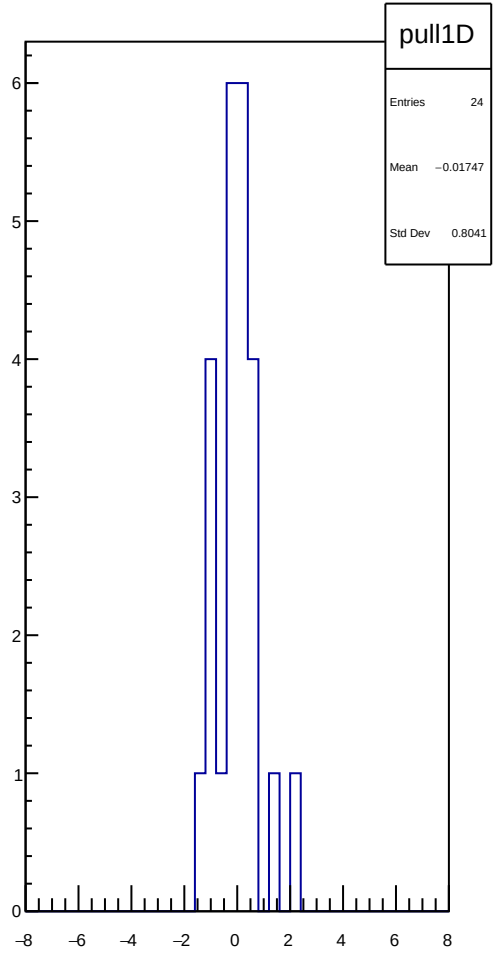
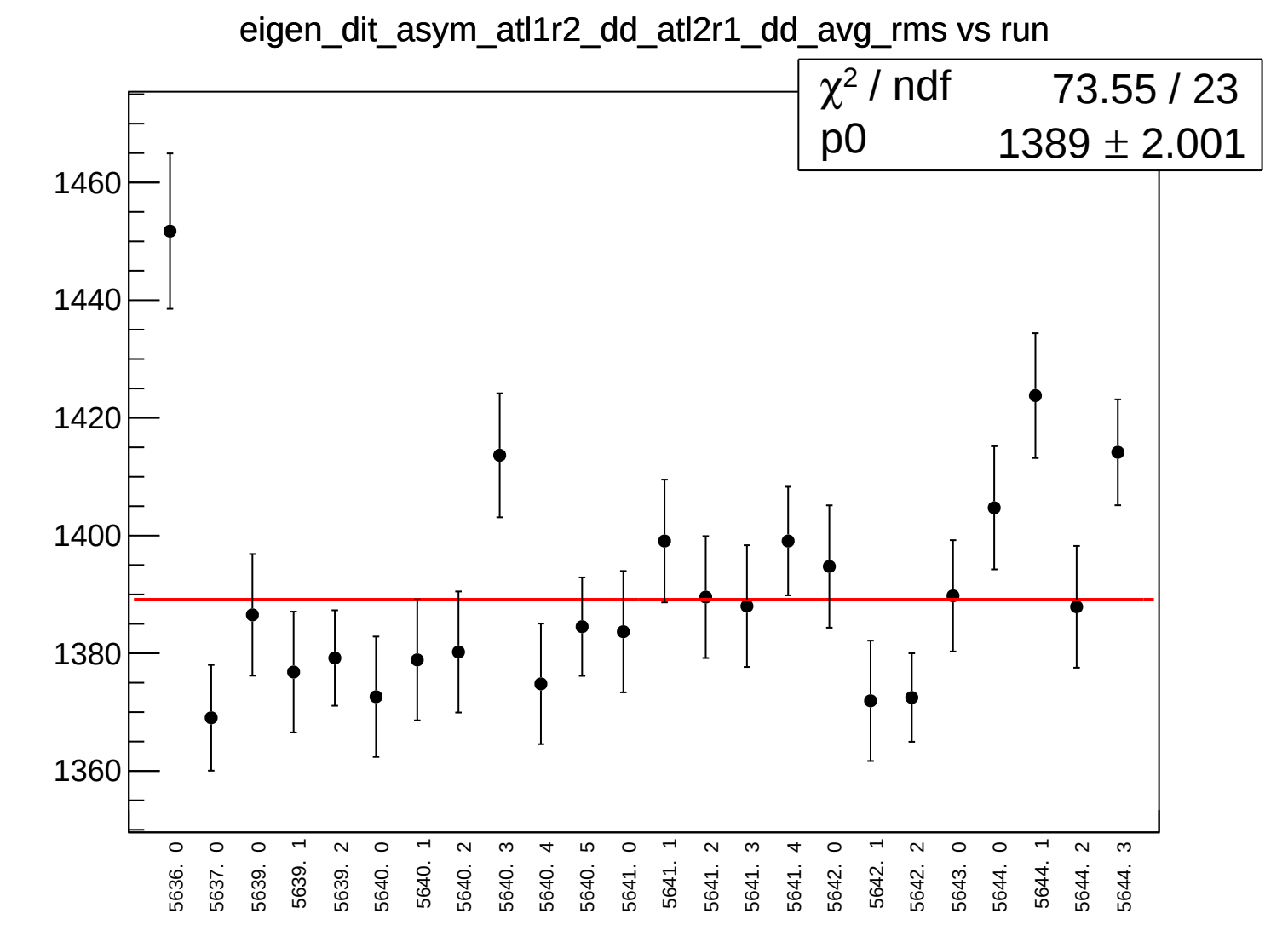
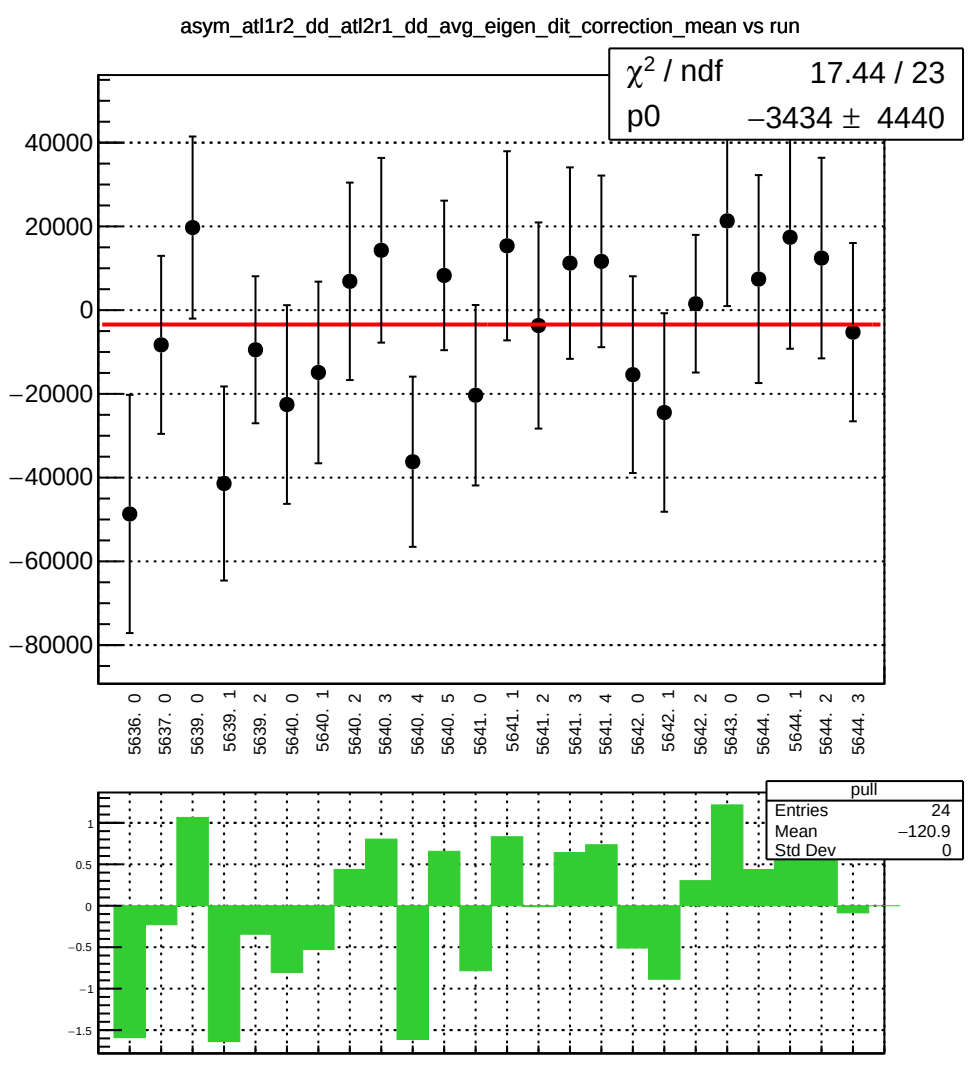
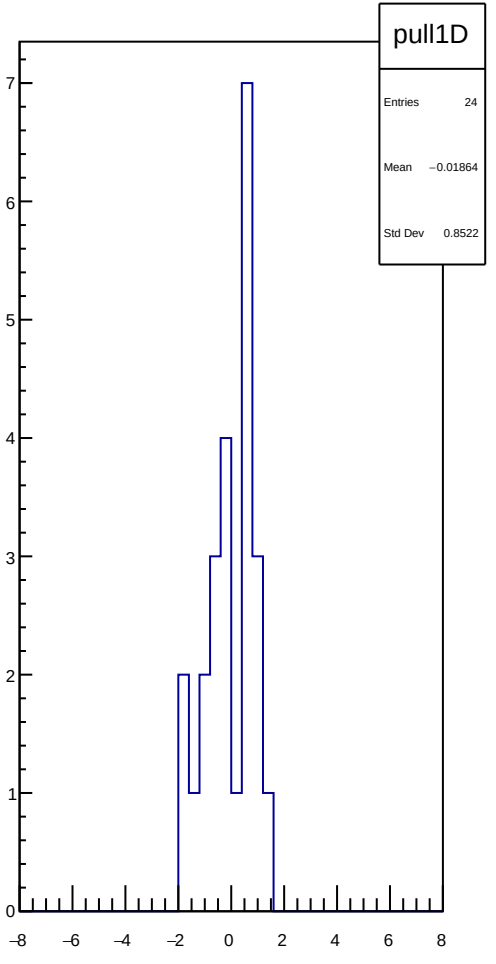
5644. 0
5644. 1
5644. 2
5644. 3

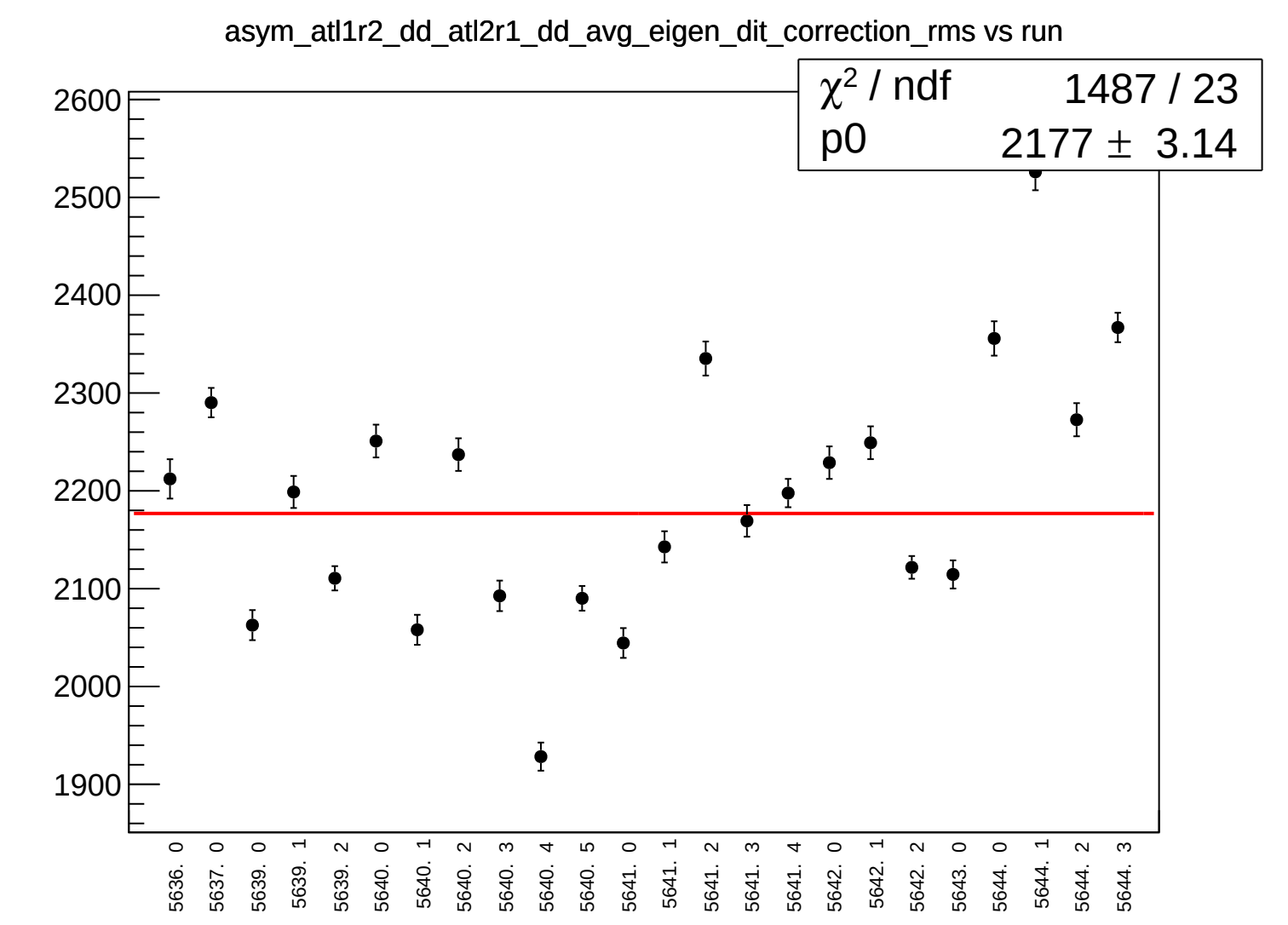

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 15.52 / 23
p0 −2726 ± 2829
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −62.25
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

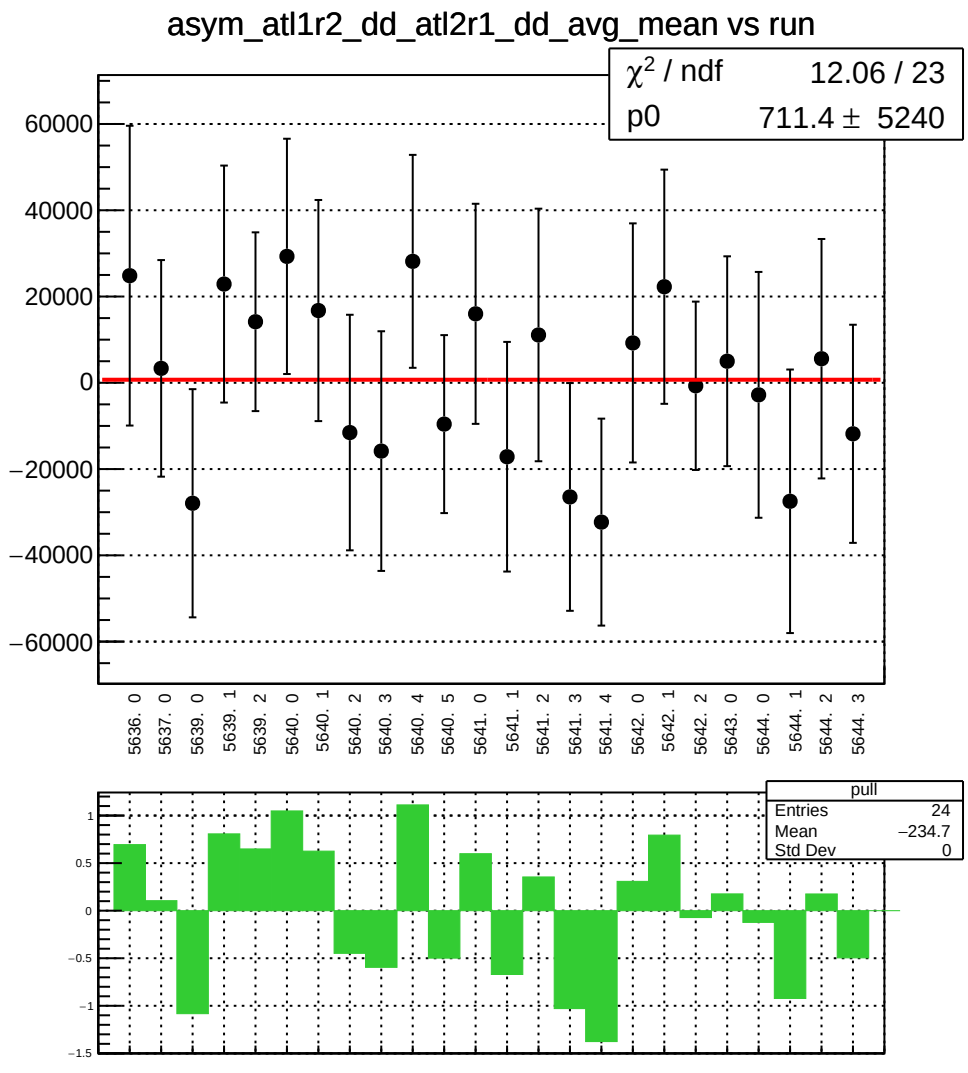

pull1D
Entries 24
Mean −0.01747
Std Dev 0.8041
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

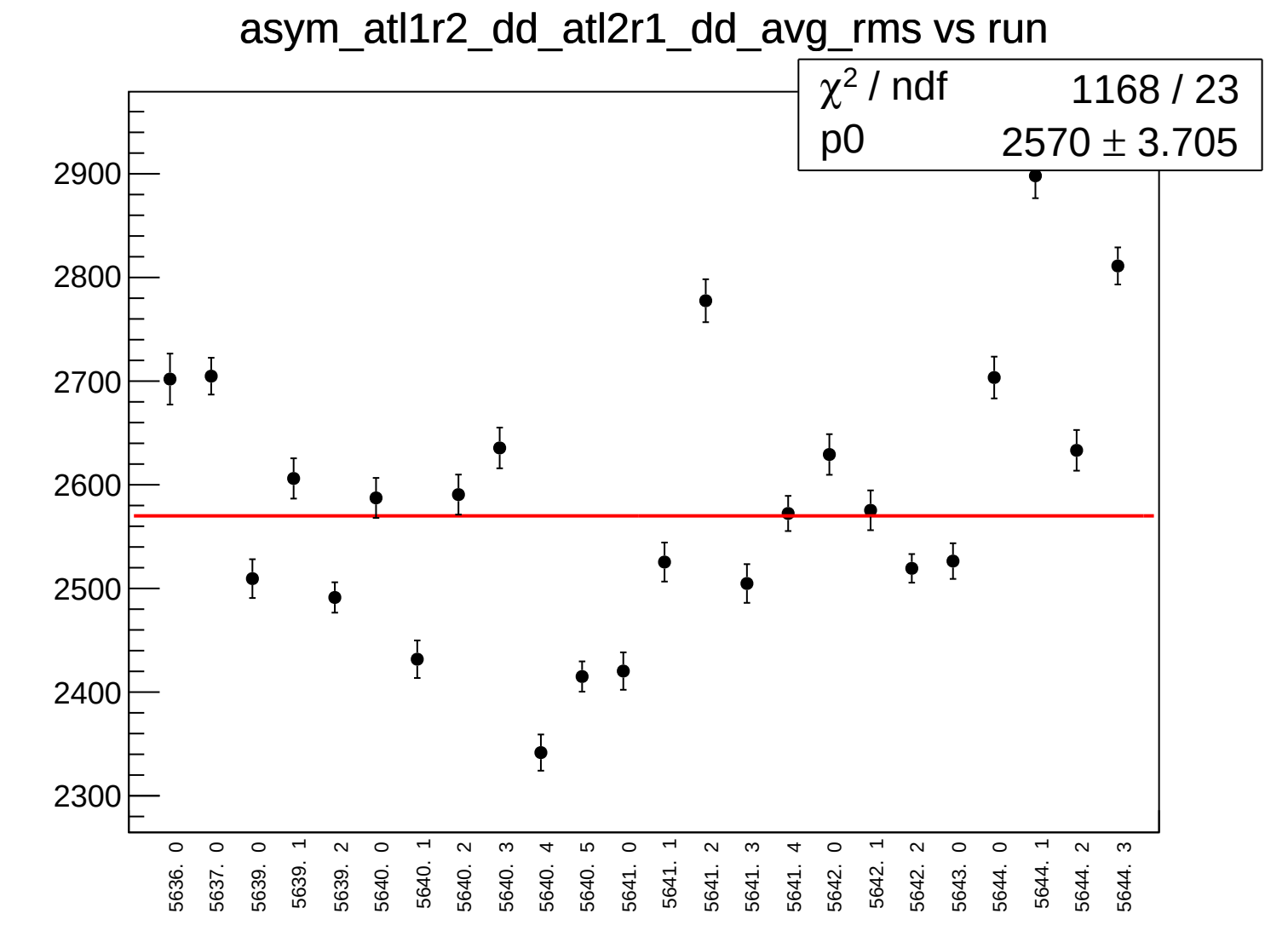

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 73.55 / 23
p0 1389 ± 2.001
1460
1440
1420
1400
1380
1360
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

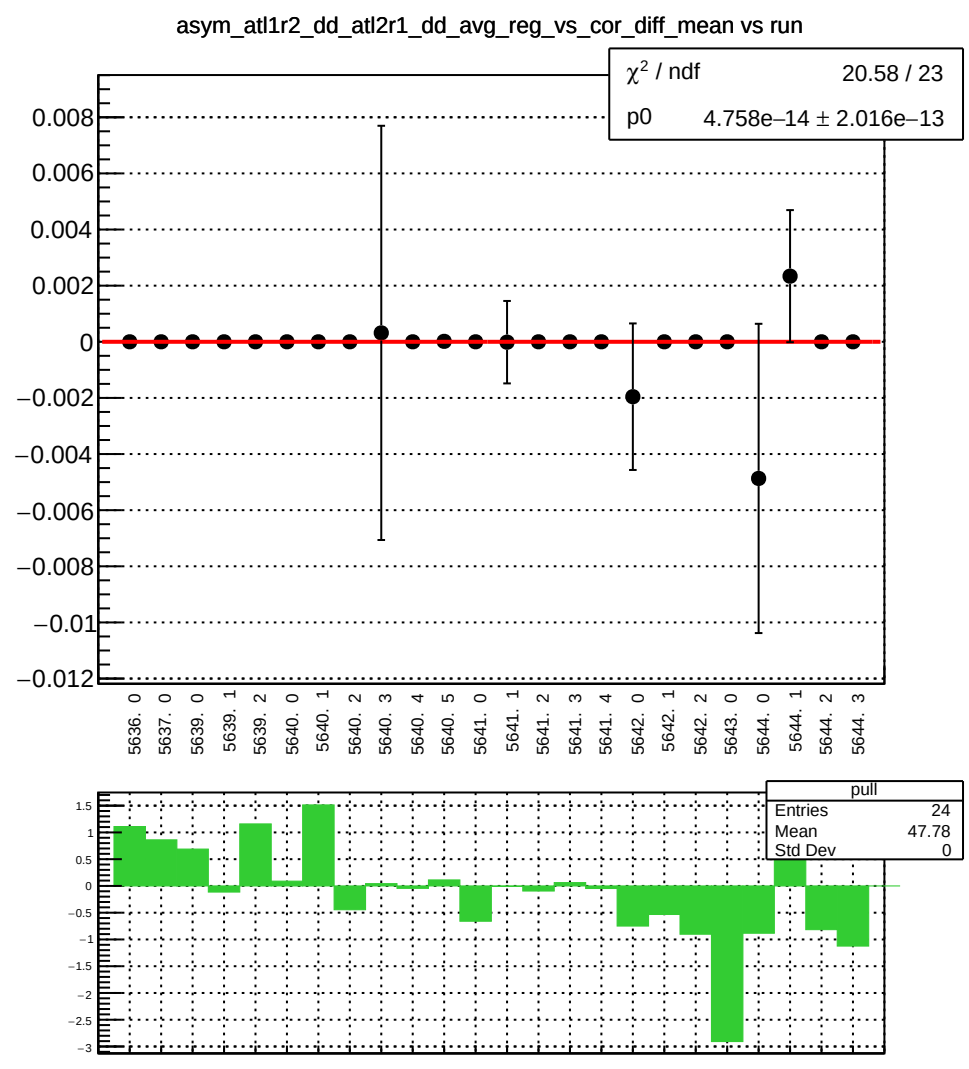

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 17.44 / 23
p0 −3434 ± 4440
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −120.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

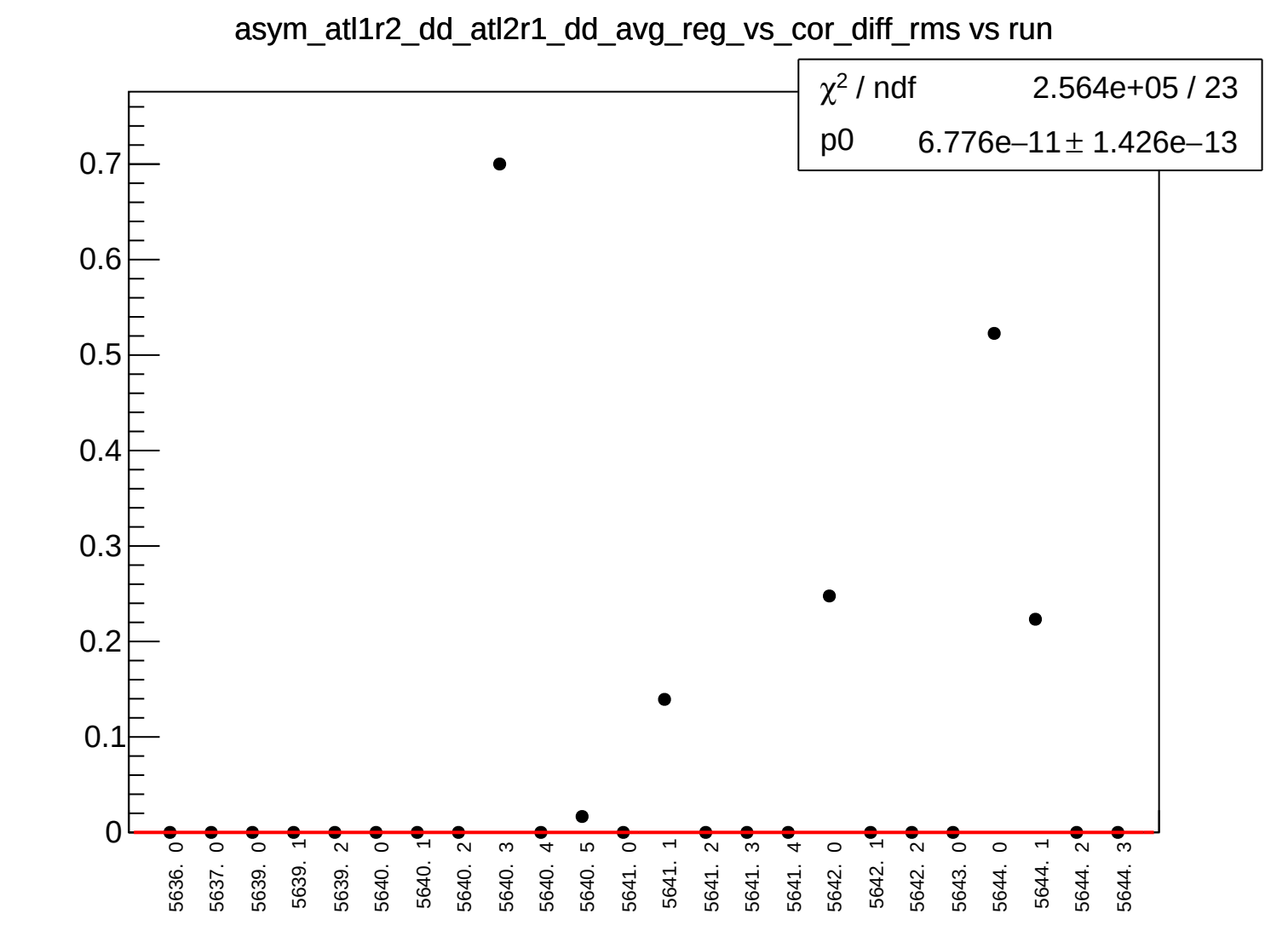

pull1D
Entries 24
Mean −0.01864
Std Dev 0.8522
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

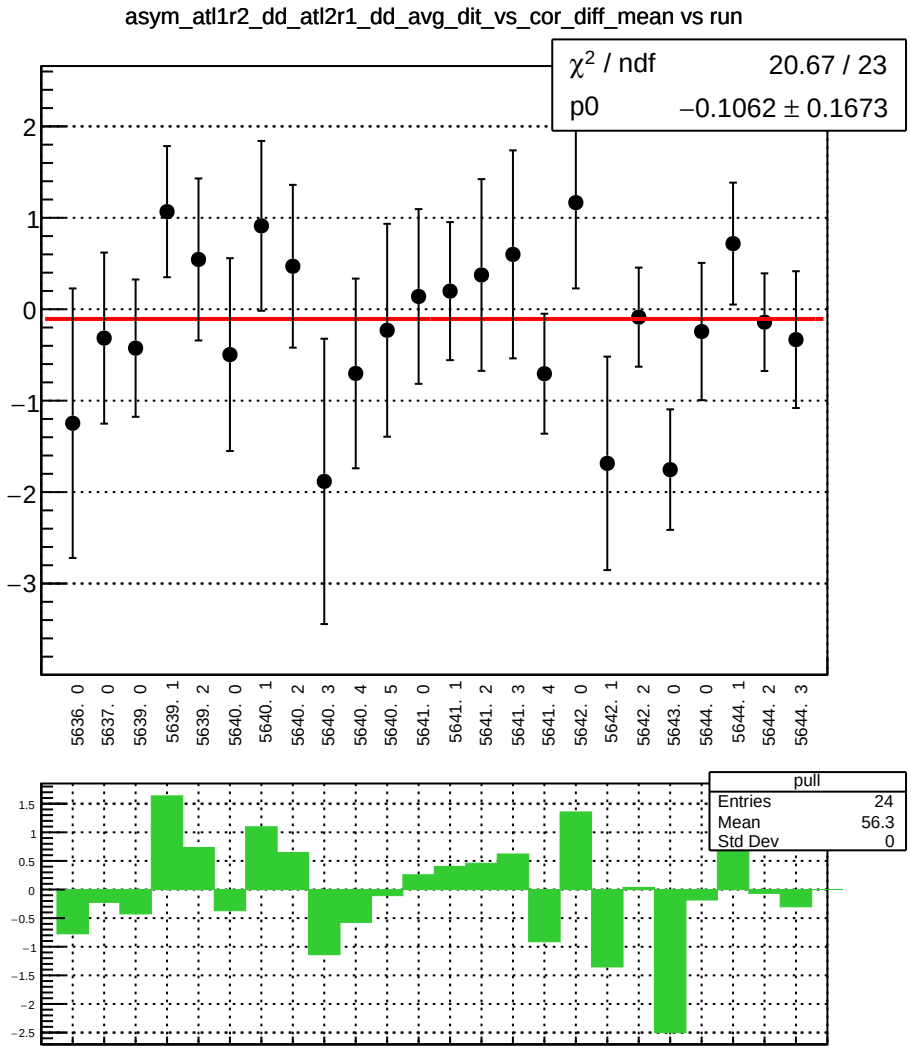

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1487 / 23
p0 2177 ± 3.14
2600
2500
2400
2300
2200
2100
2000
1900
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

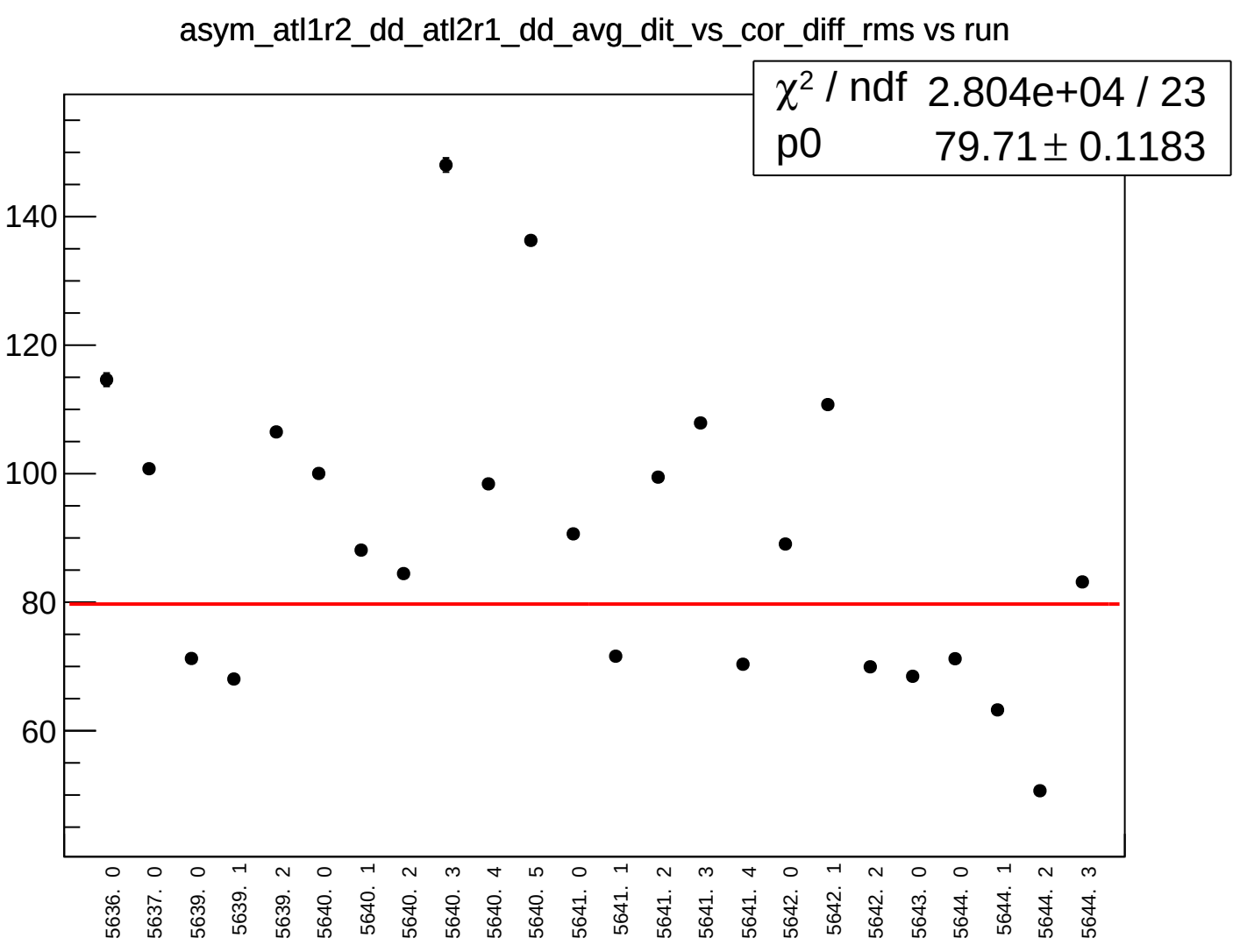

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 12.06 / 23
p0 711.4 ± 5240
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −234.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.005619
Std Dev 0.7089
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

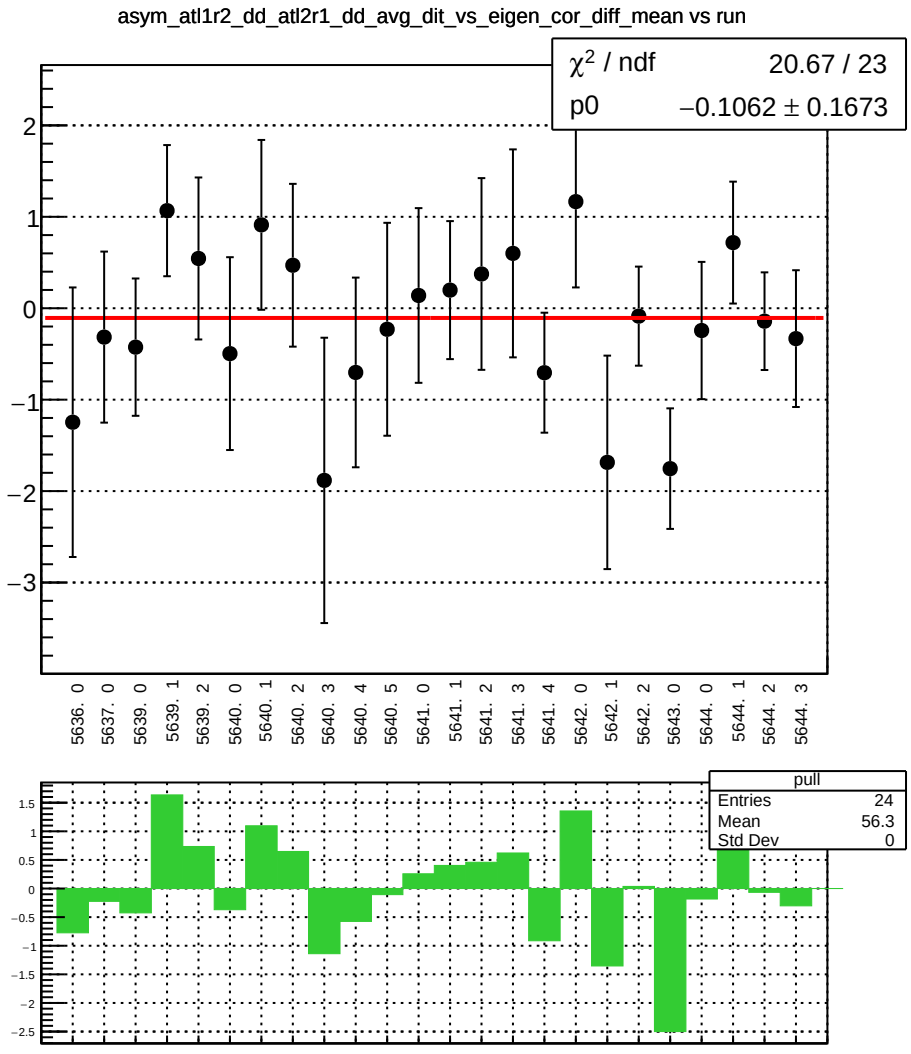

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1168 / 23
p0 2570 ± 3.705
2900
2800
2700
2600
2500
2400
2300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

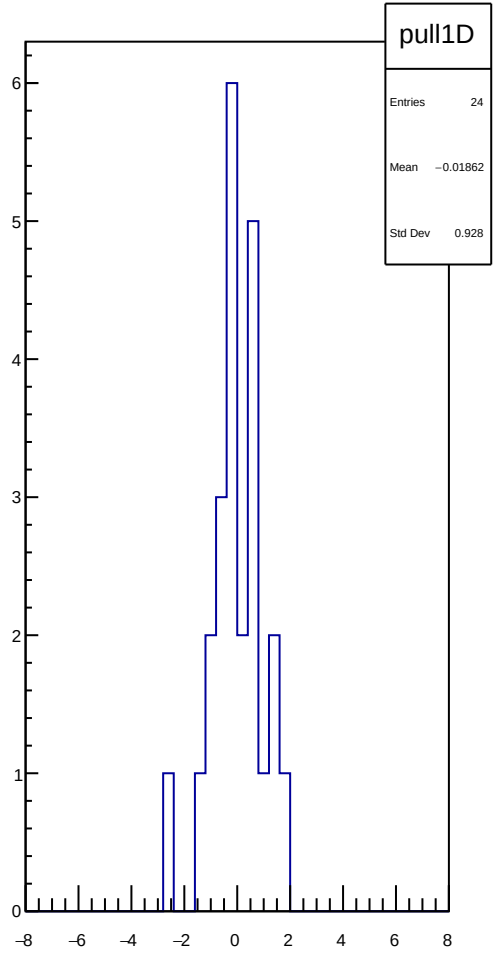

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 20.58 / 23
p0 4.758e−14 ± 2.016e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
−0.012
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 47.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 24
Mean −0.1125
Std Dev 0.9192
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

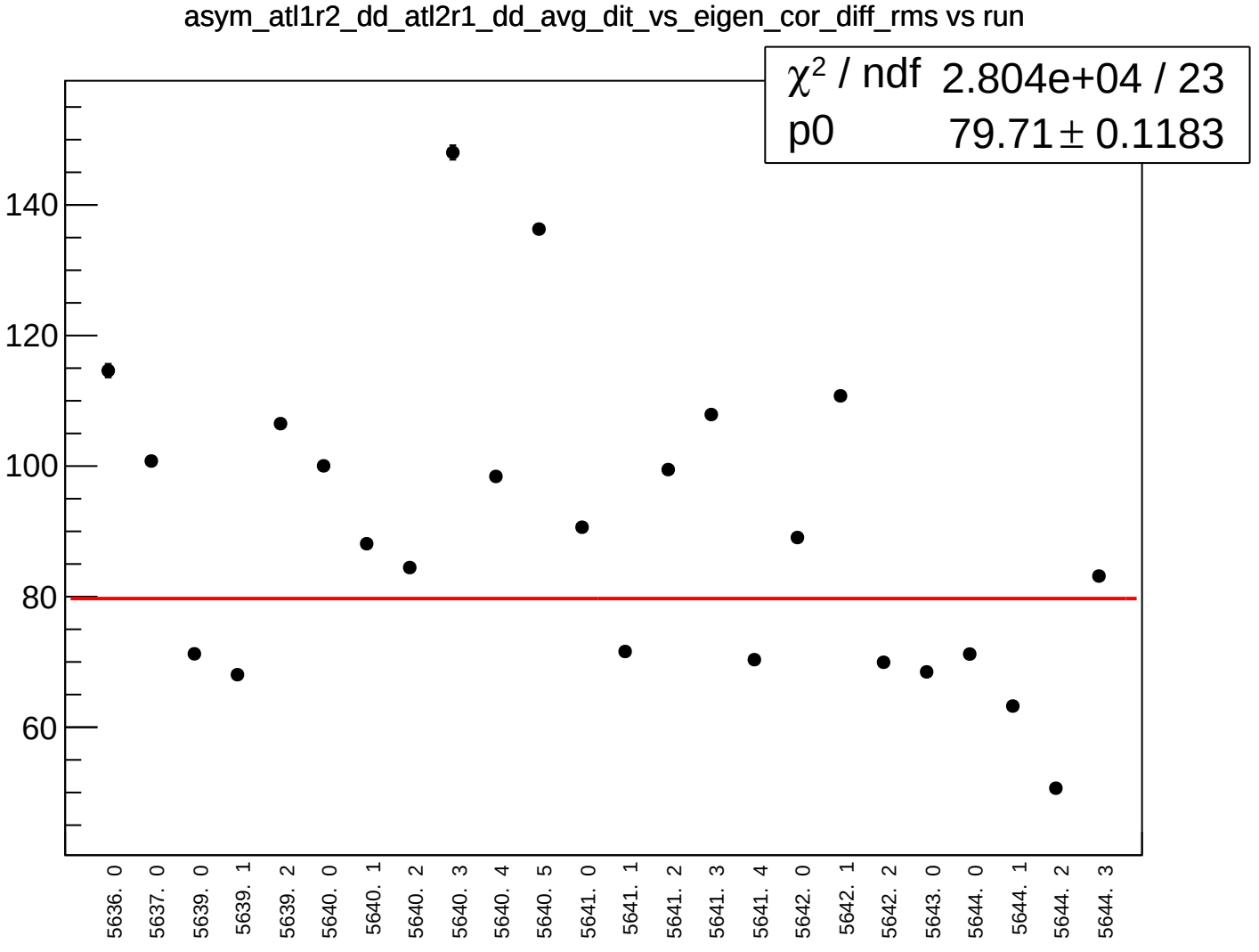

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.564e+05 / 23
p0 6.776e−11 ± 1.426e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

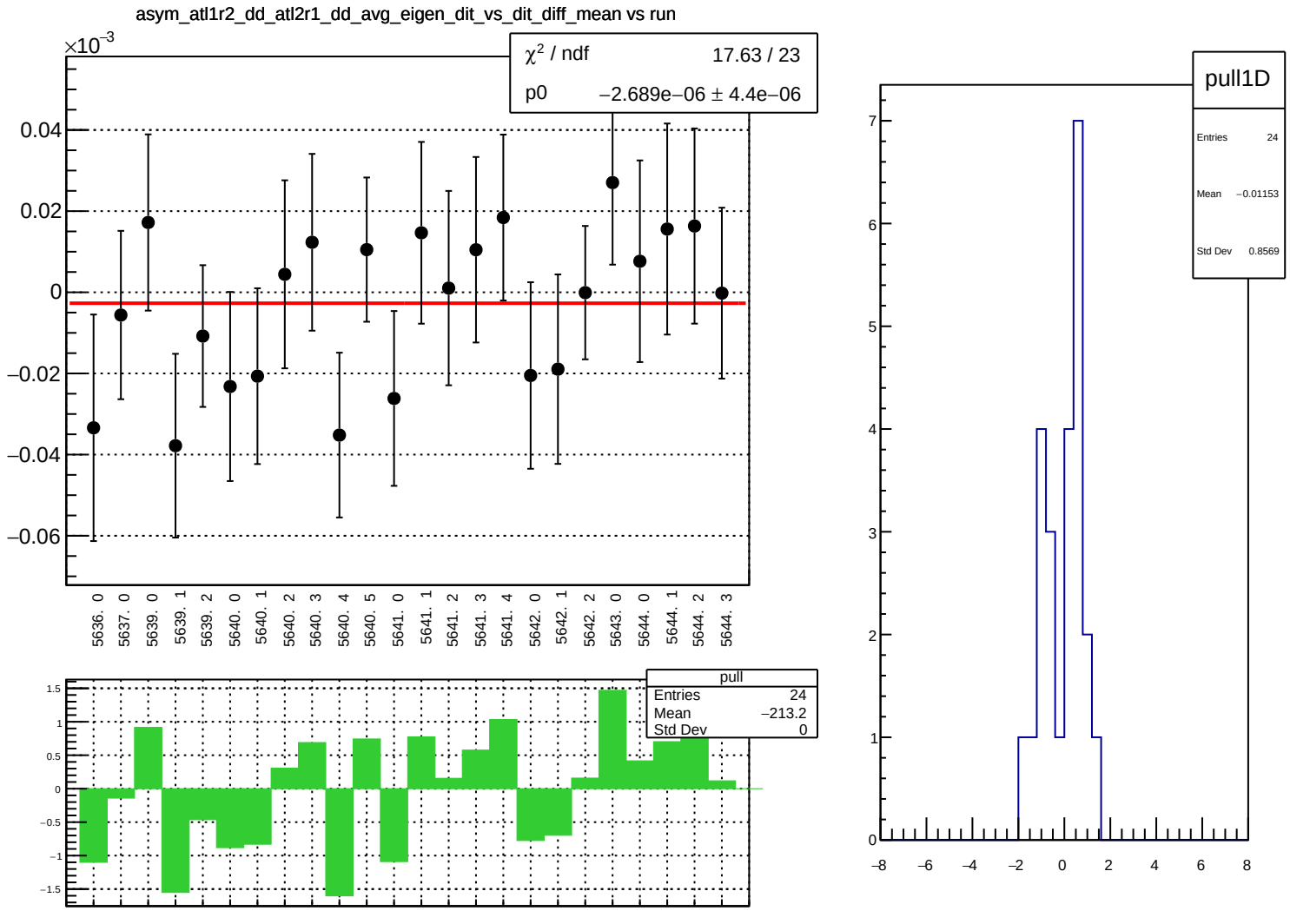

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 20.67 / 23
p0 −0.1062 ± 0.1673
2
1
0
−1
−2
−3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 56.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean −0.01862
Std Dev 0.928
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

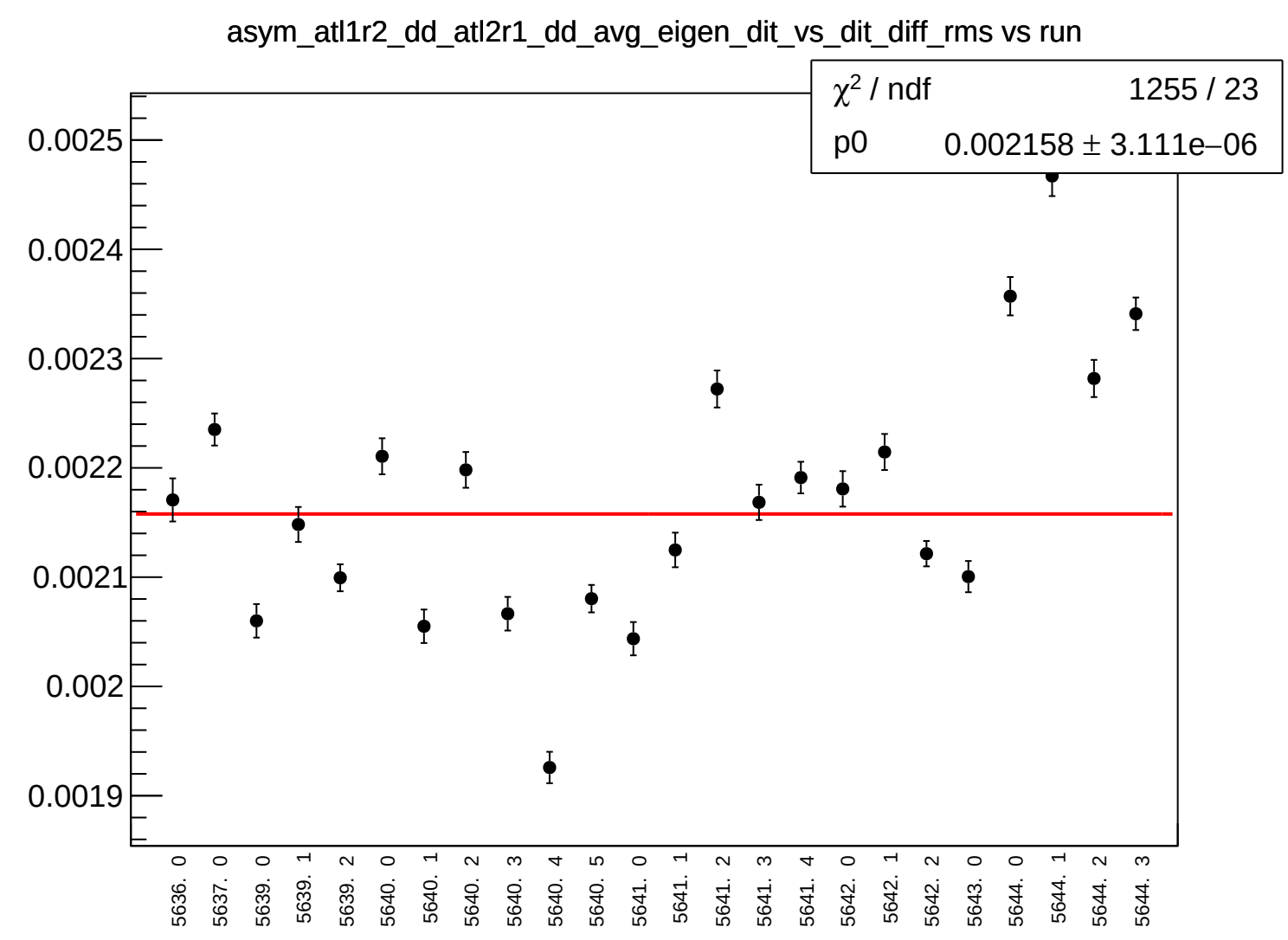

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.804e+04 / 23
p0 79.71 ± 0.1183
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

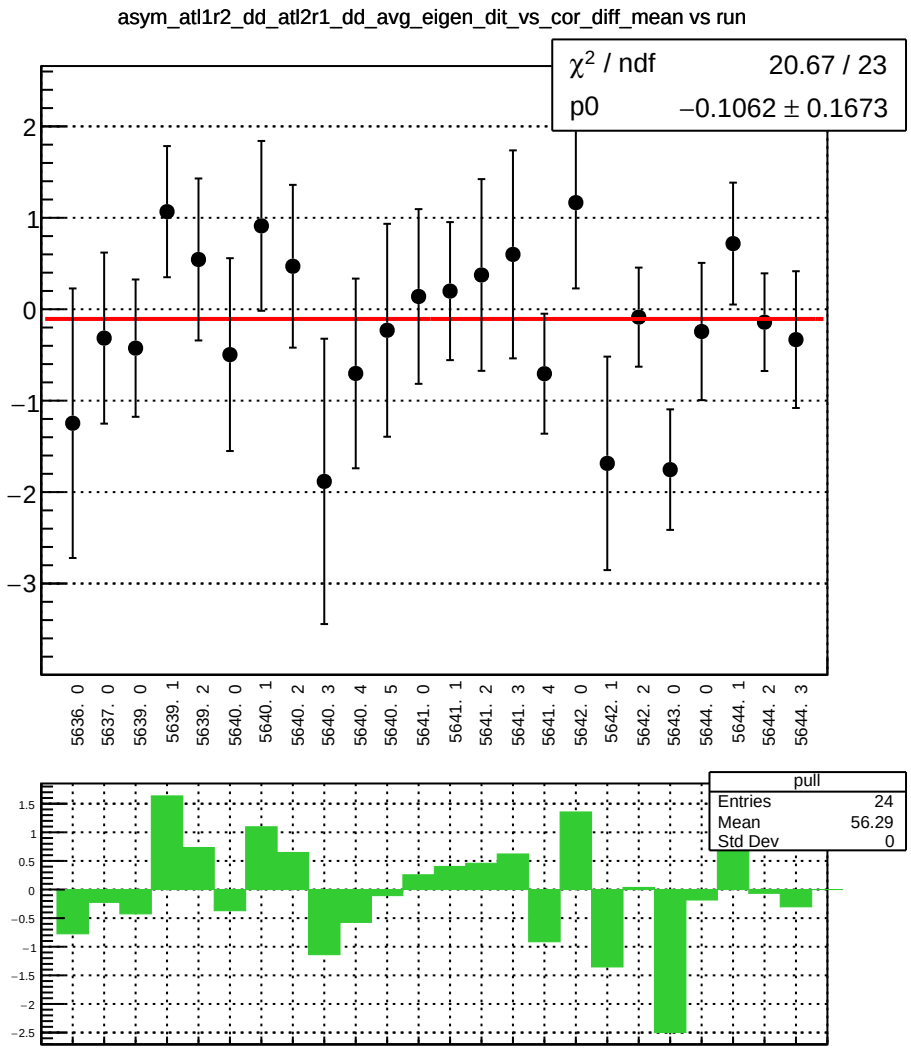

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 20.67 / 23
p0 −0.1062 ± 0.1673
pull
Entries 24
Mean 56.3
Std Dev 0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

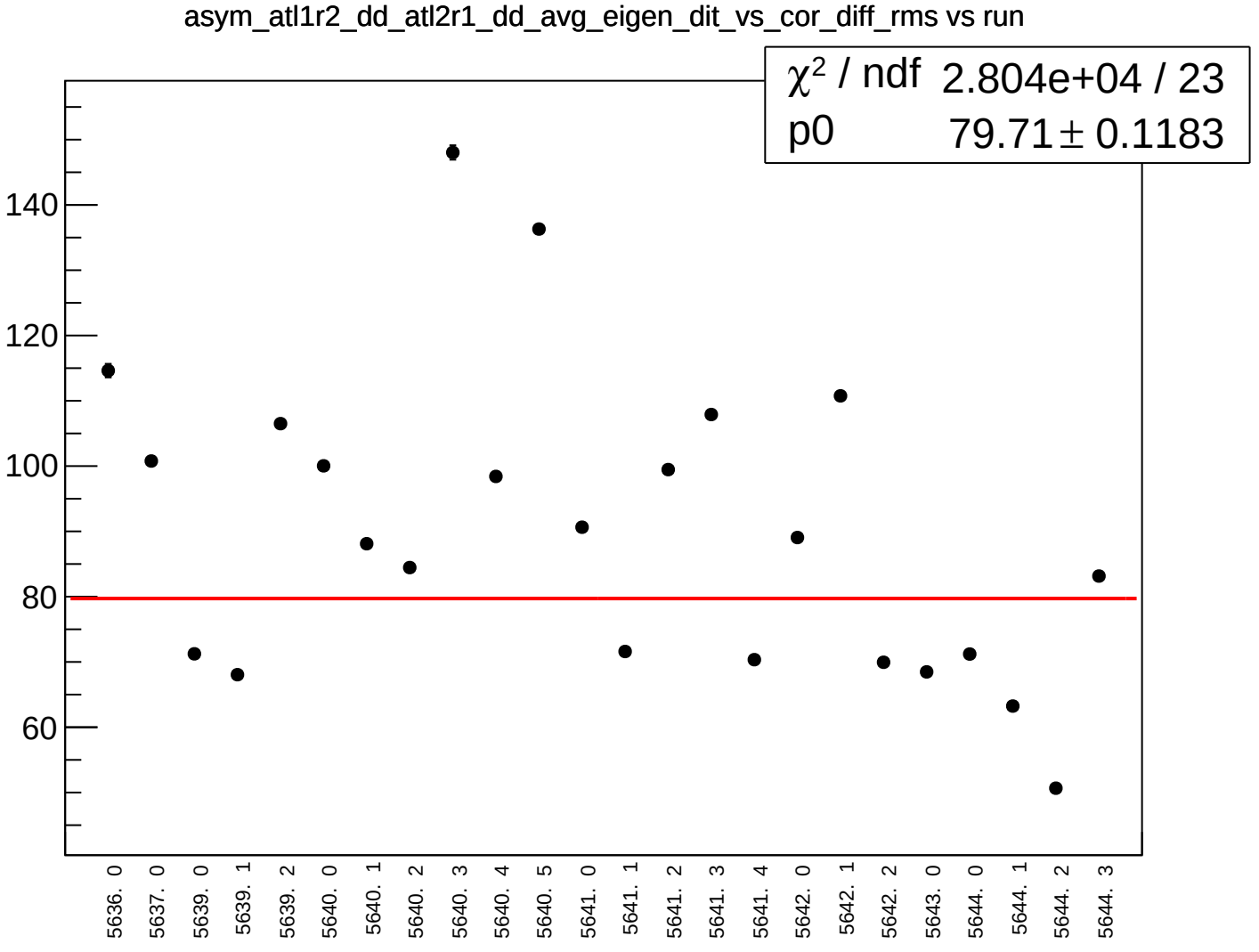

pull1D
Entries 24
Mean −0.01862
Std Dev 0.928

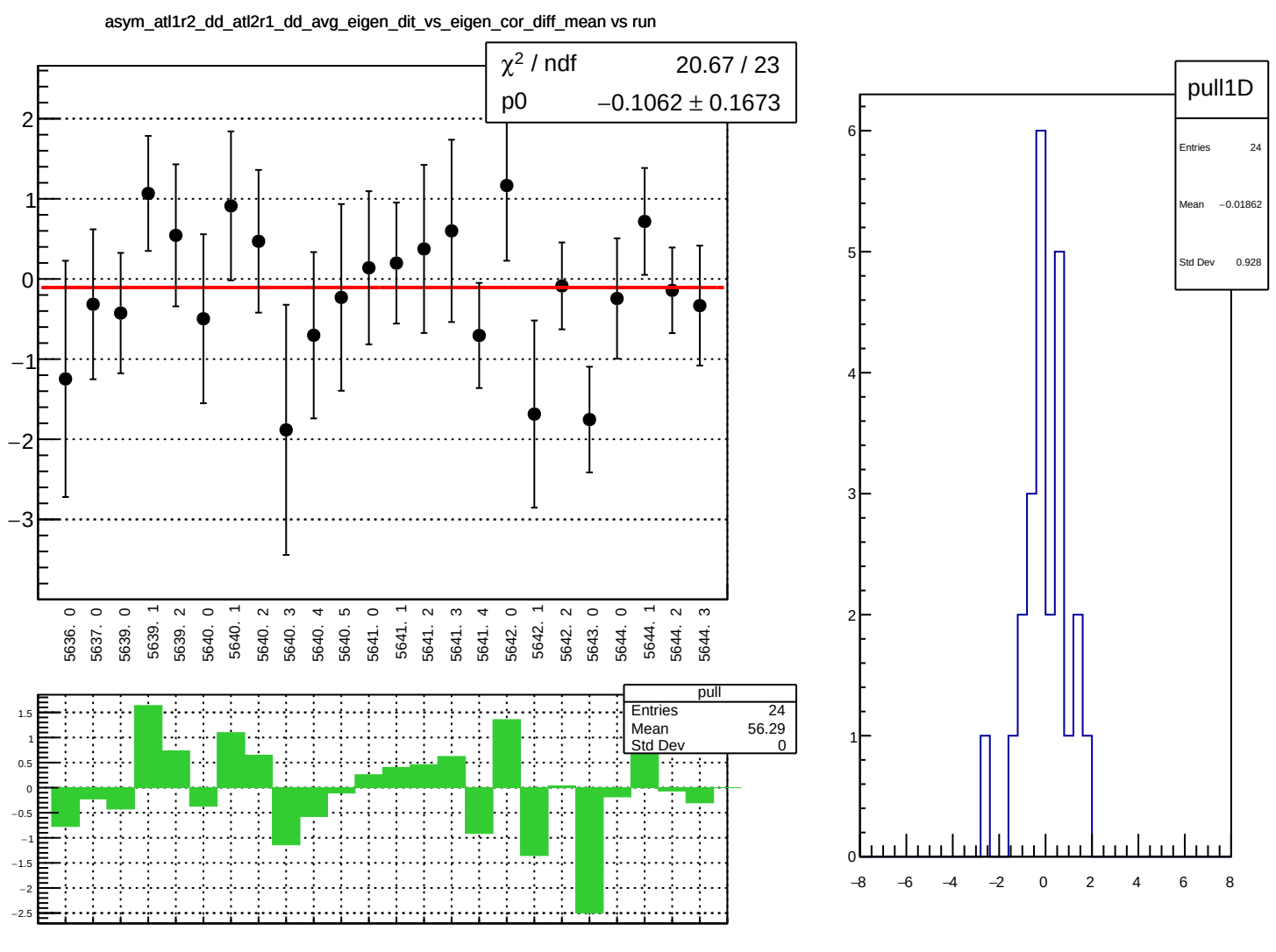

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.804e+04 / 23
p0 79.71 ± 0.1183
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

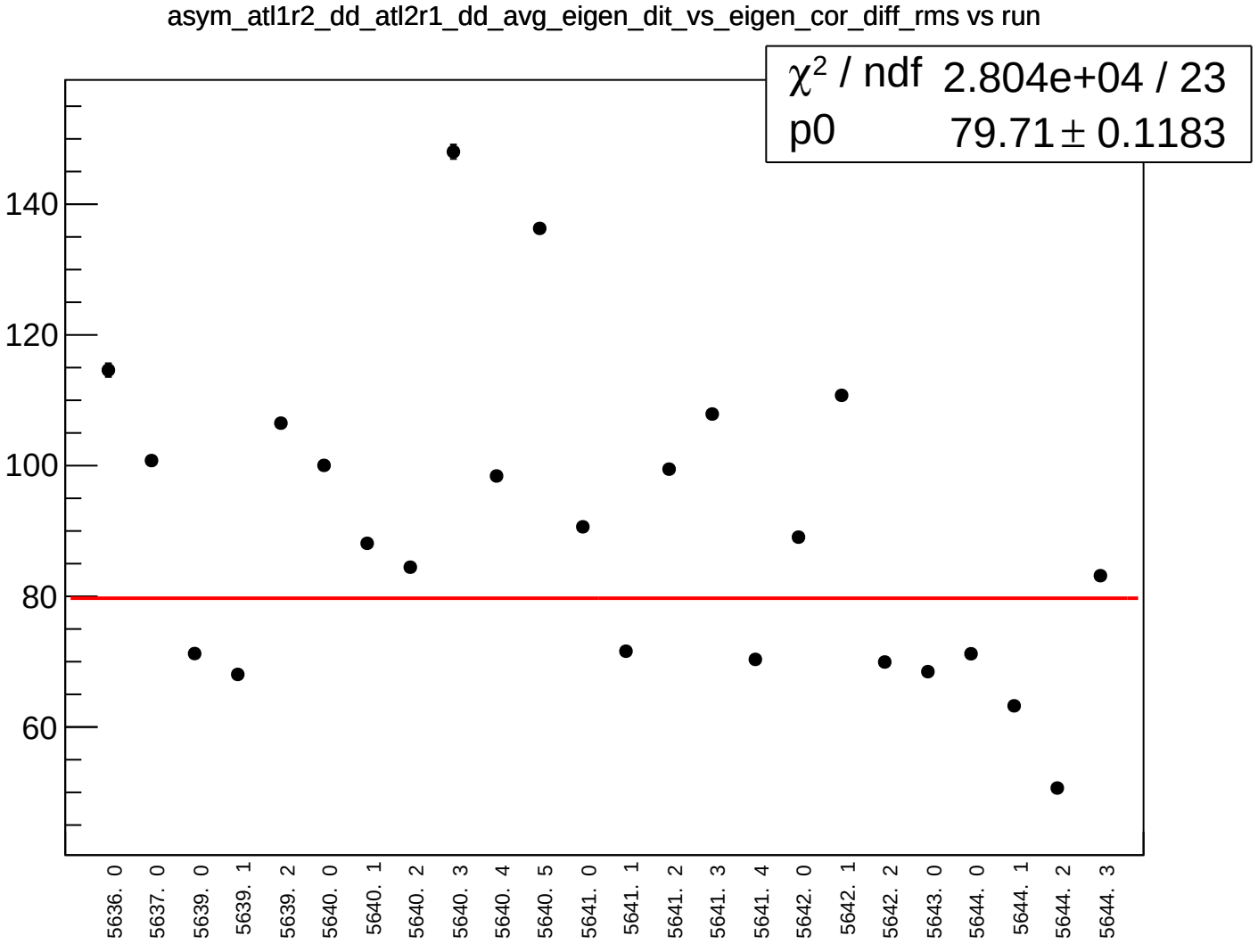

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 17.63 / 23
p0 −2.689e−06 ± 4.4e−06
0.04
0.02
0
−0.02
−0.04
−0.06
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −213.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.01153
Std Dev 0.8569
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

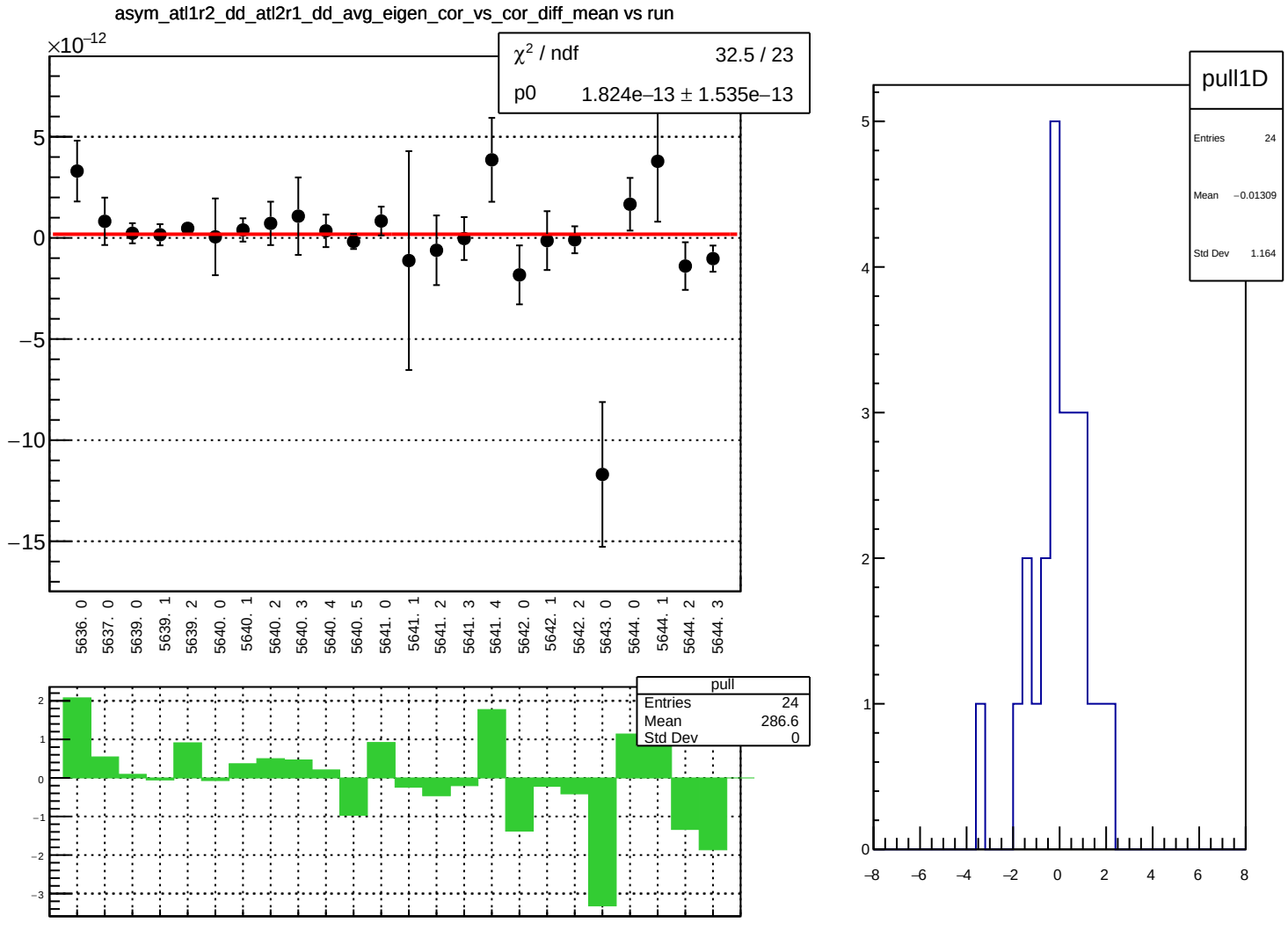

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1255 / 23
p0 0.002158 ± 3.111e−06
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

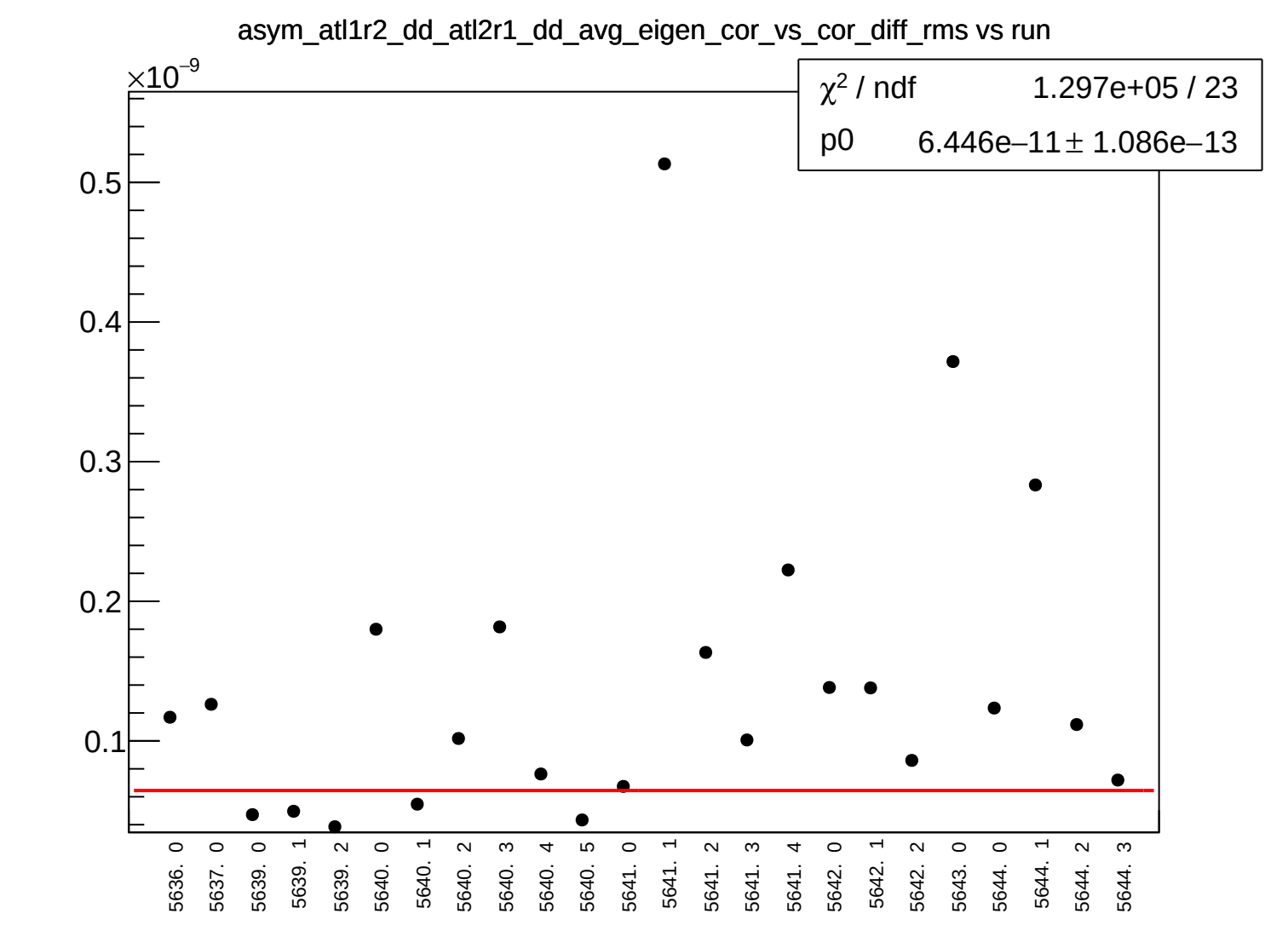

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 20.67 / 23
p0 −0.1062 ± 0.1673
2
1
0
−1
−2
−3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 56.29
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean −0.01862
Std Dev 0.928
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

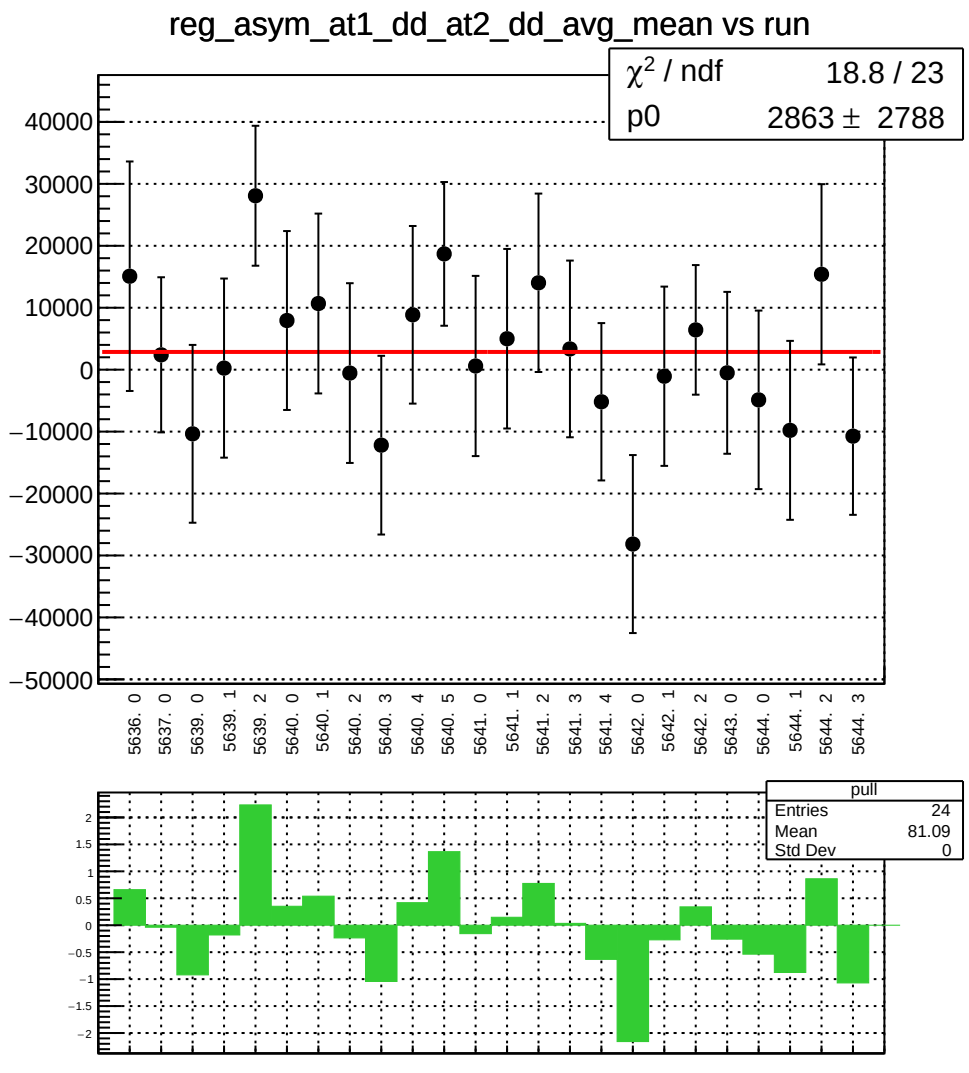

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.804e+04 / 23
p0 79.71 ± 0.1183
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

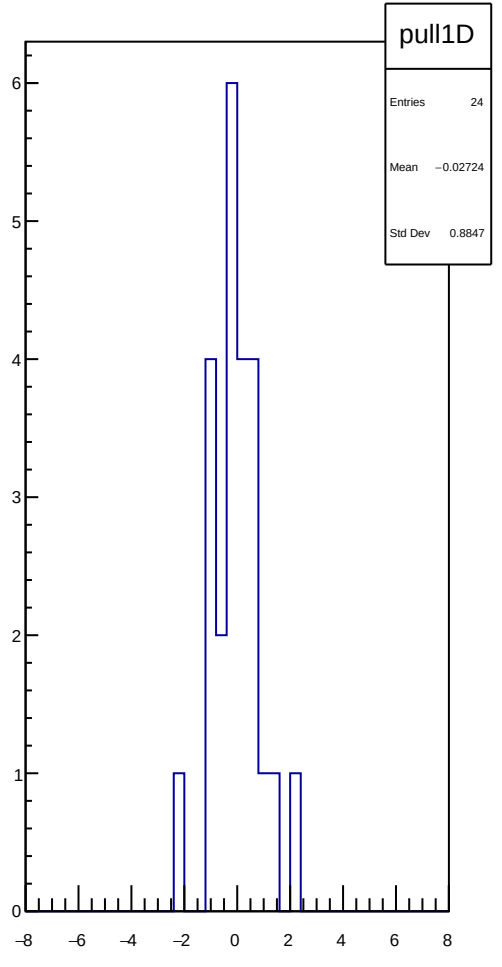

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 20.67 / 23
p0 −0.1062 ± 0.1673
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 56.29
Std Dev 0
pull1D
Entries 24
Mean −0.01862
Std Dev 0.928

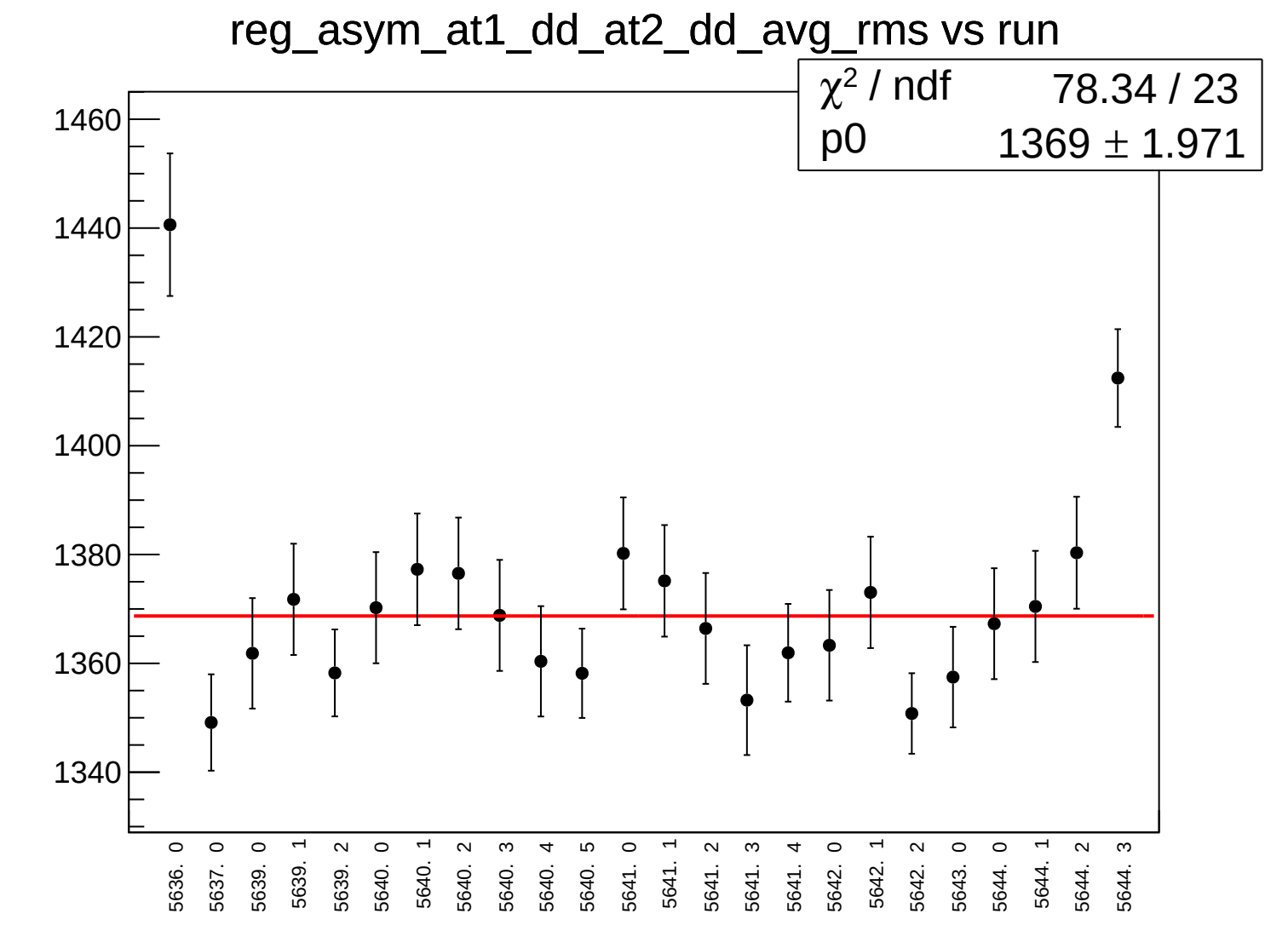

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.804e+04 / 23
p0 79.71 ± 0.1183
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

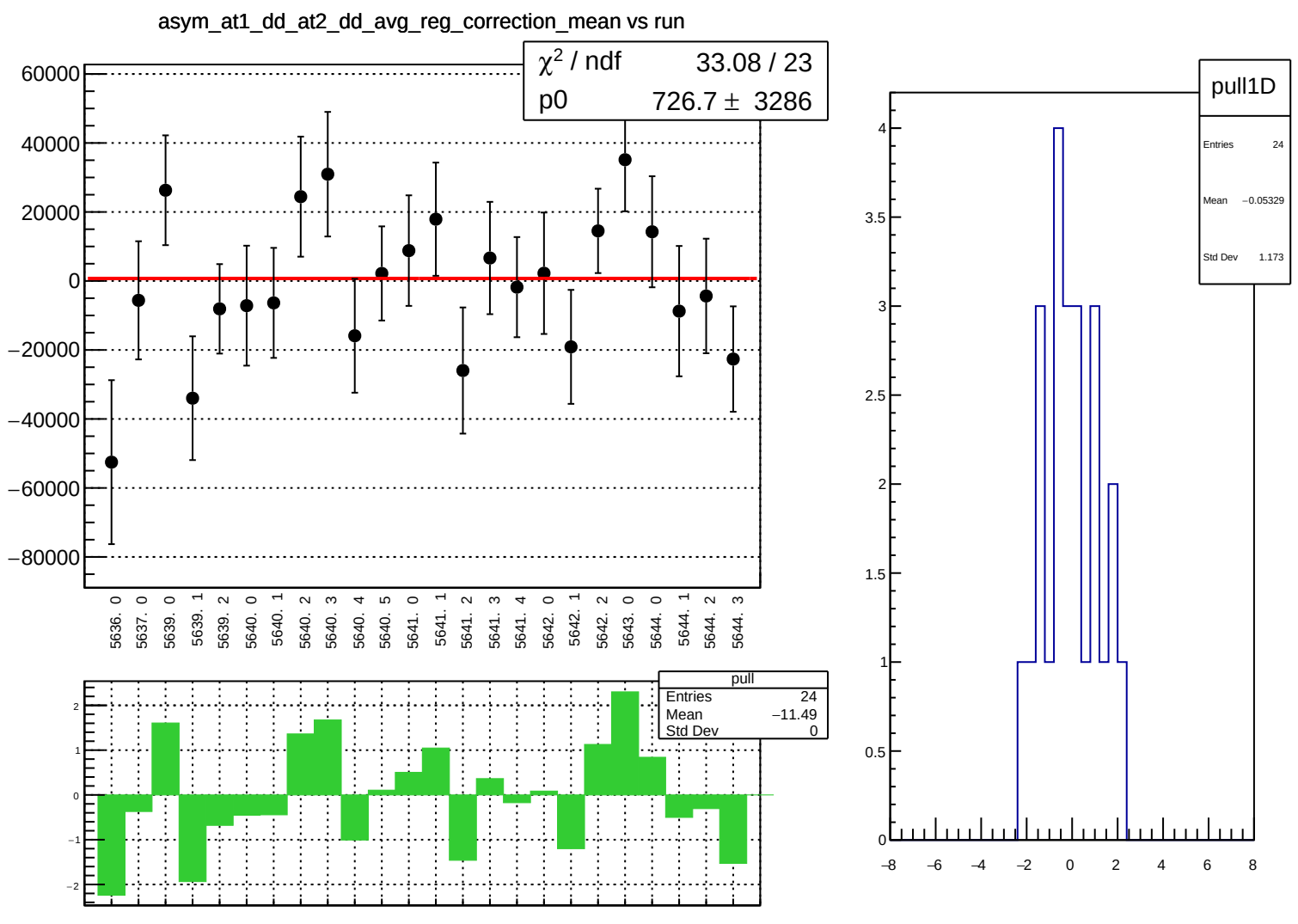

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 32.5 / 23
p0 1.824e−13 ± 1.535e−13
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 286.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean −0.01309
Std Dev 1.164
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.297e+05 / 23
p0 6.446e−11 ± 1.086e−13
0.5
0.4
0.3
0.2
0.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 18.8 / 23
p0 2863 ± 2788
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 81.09
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.02724
Std Dev 0.8847
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 78.34 / 23
p0 1369 ± 1.971
1460
1440
1420
1400
1380
1360
1340
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 33.08 / 23
p0 726.7 ± 3286
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −11.49
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 24
Mean −0.05329
Std Dev 1.173
4
3.5
3
2.5
2
1.5
1
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−8
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−4
−2
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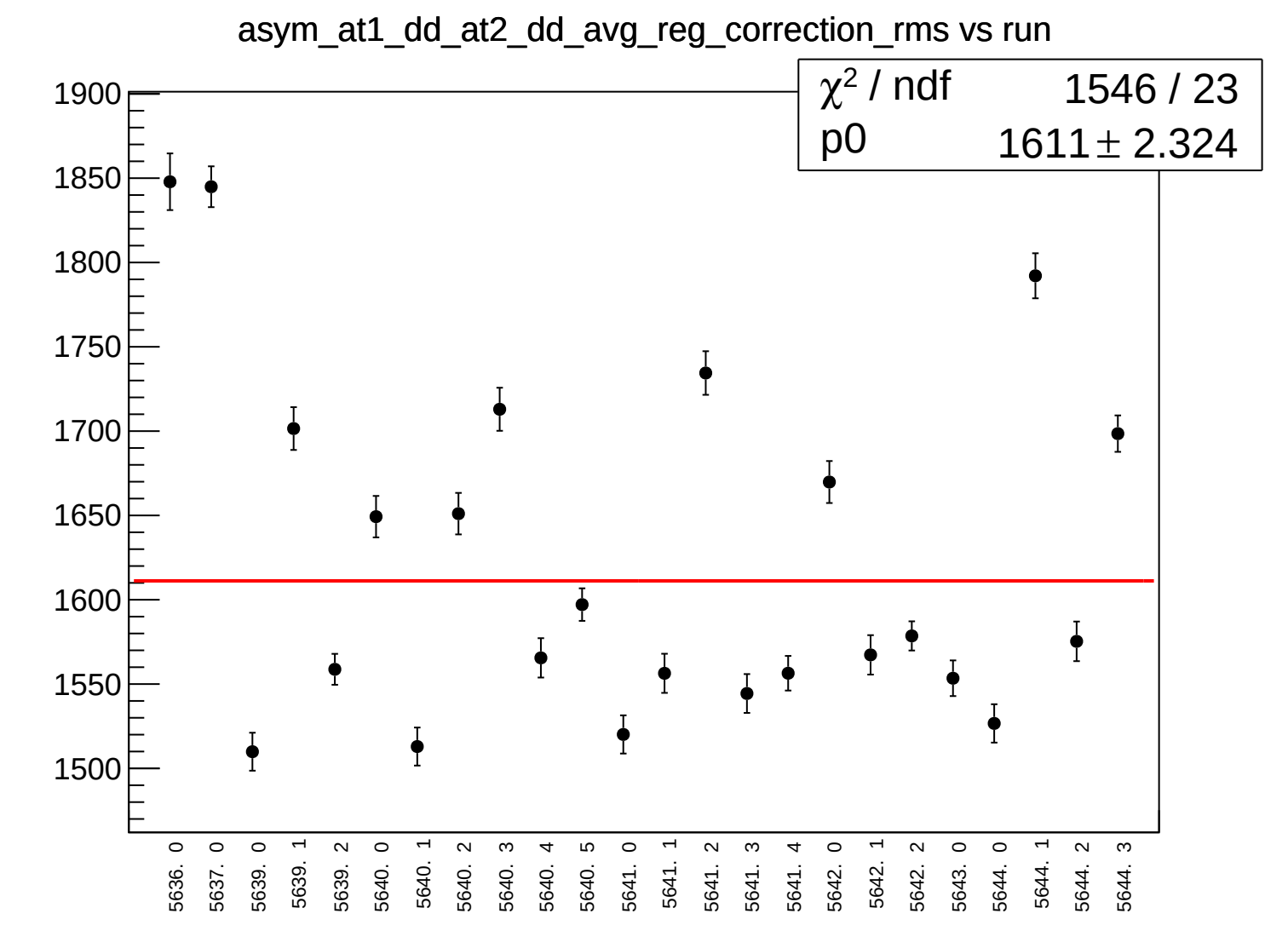
2
4
6
8


asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 1546 / 23
p0 1611 ± 2.324
1900
1850
1800
1750
1700
1650
1600
1550
1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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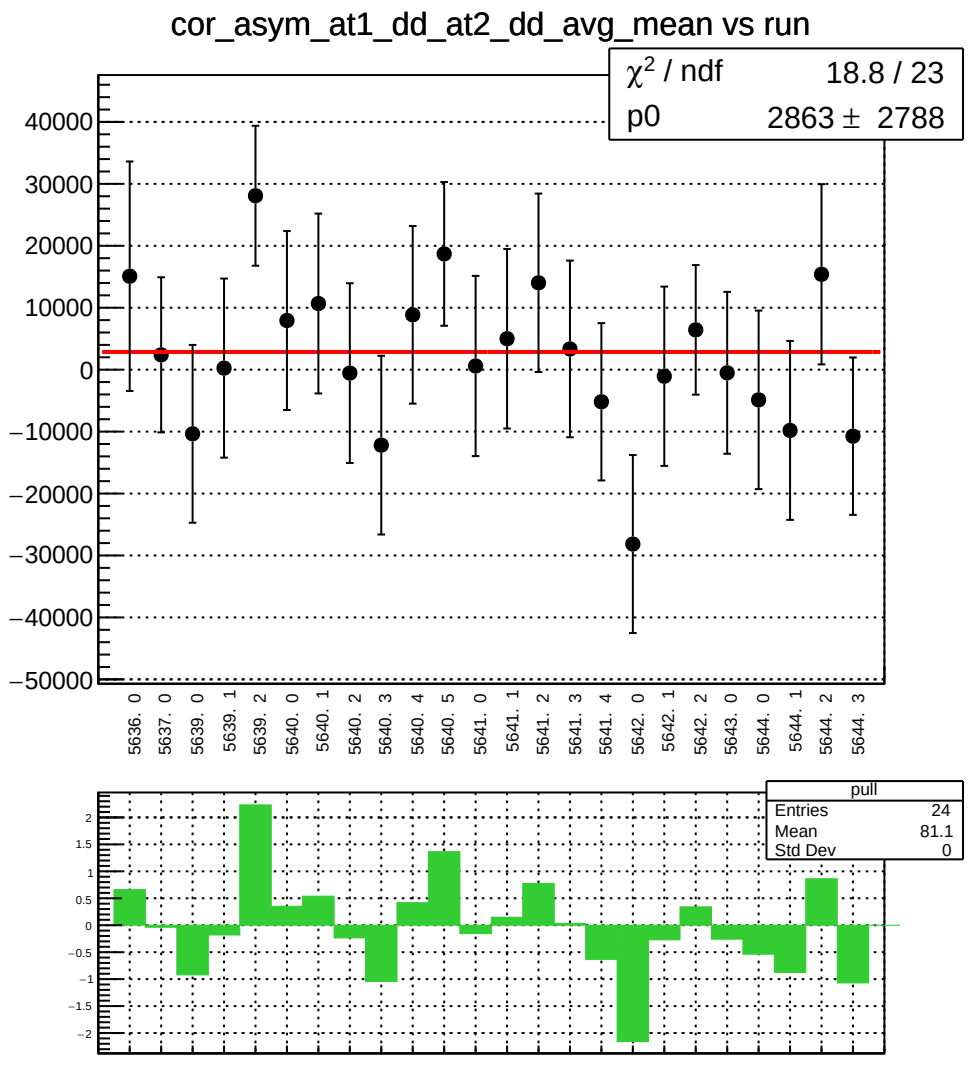
cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 18.8 / 23
p0 2863 ± 2788
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 81.1
Std Dev 0
2
1.5
1
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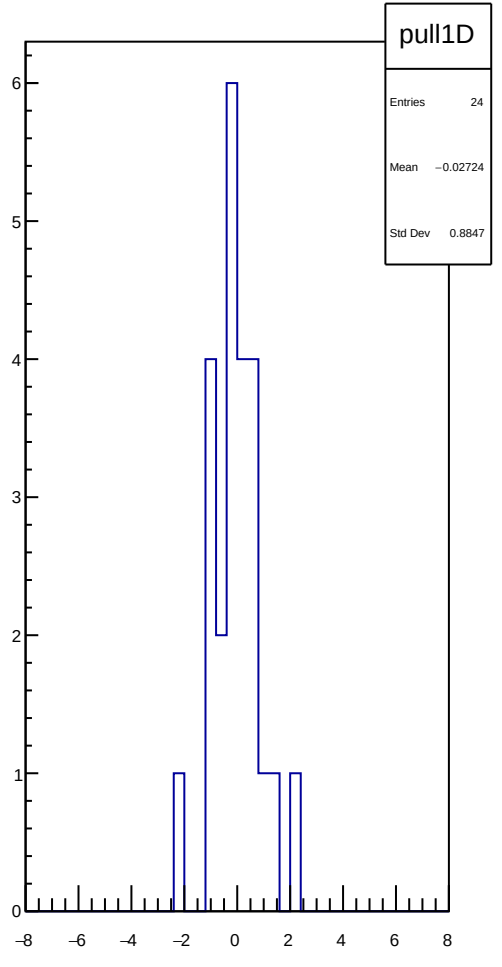
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.02724
Std Dev 0.8847
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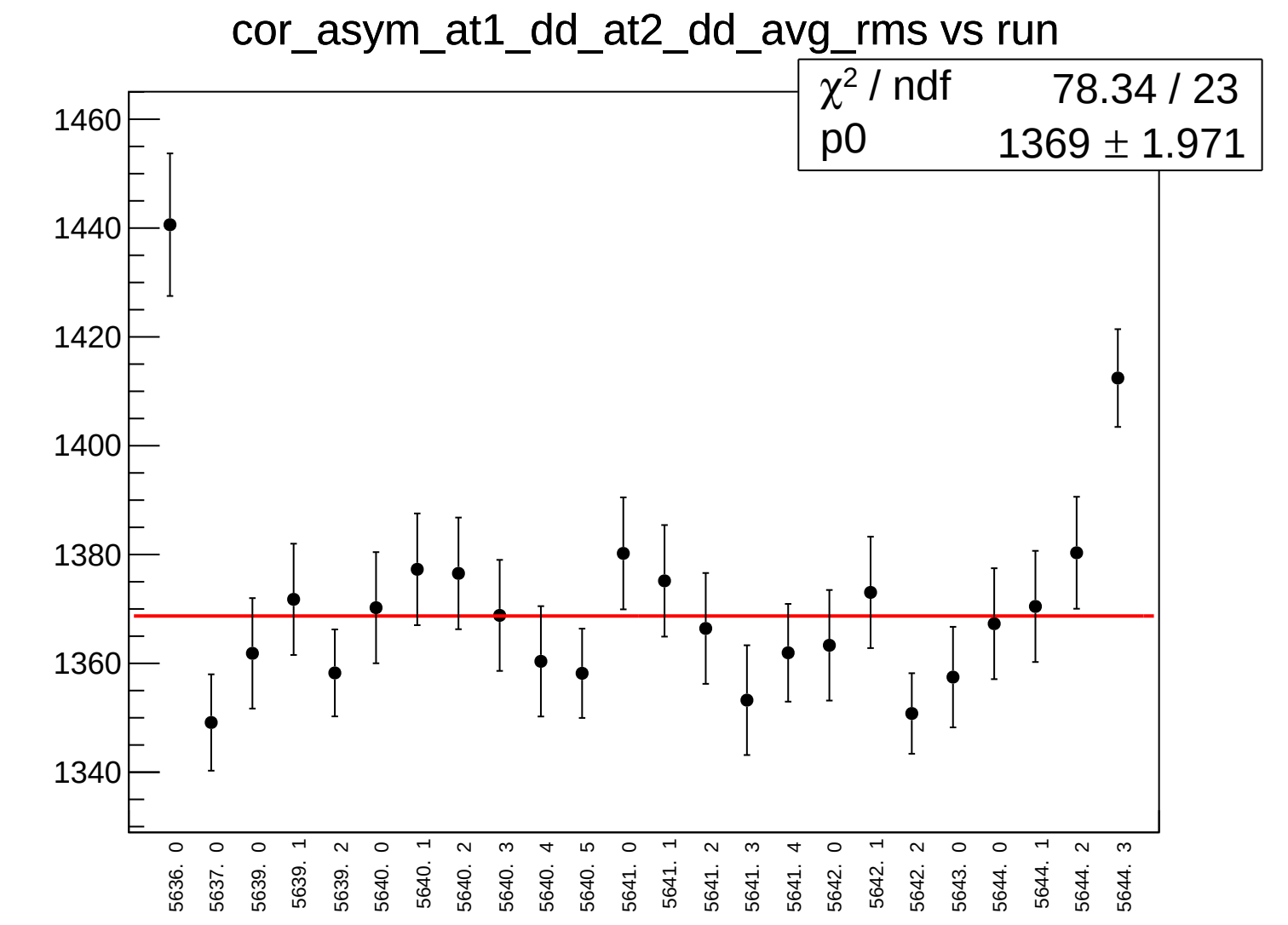
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 78.34 / 23
p0 1369 ± 1.971
1460
1440
1420
1400
1380
1360
1340
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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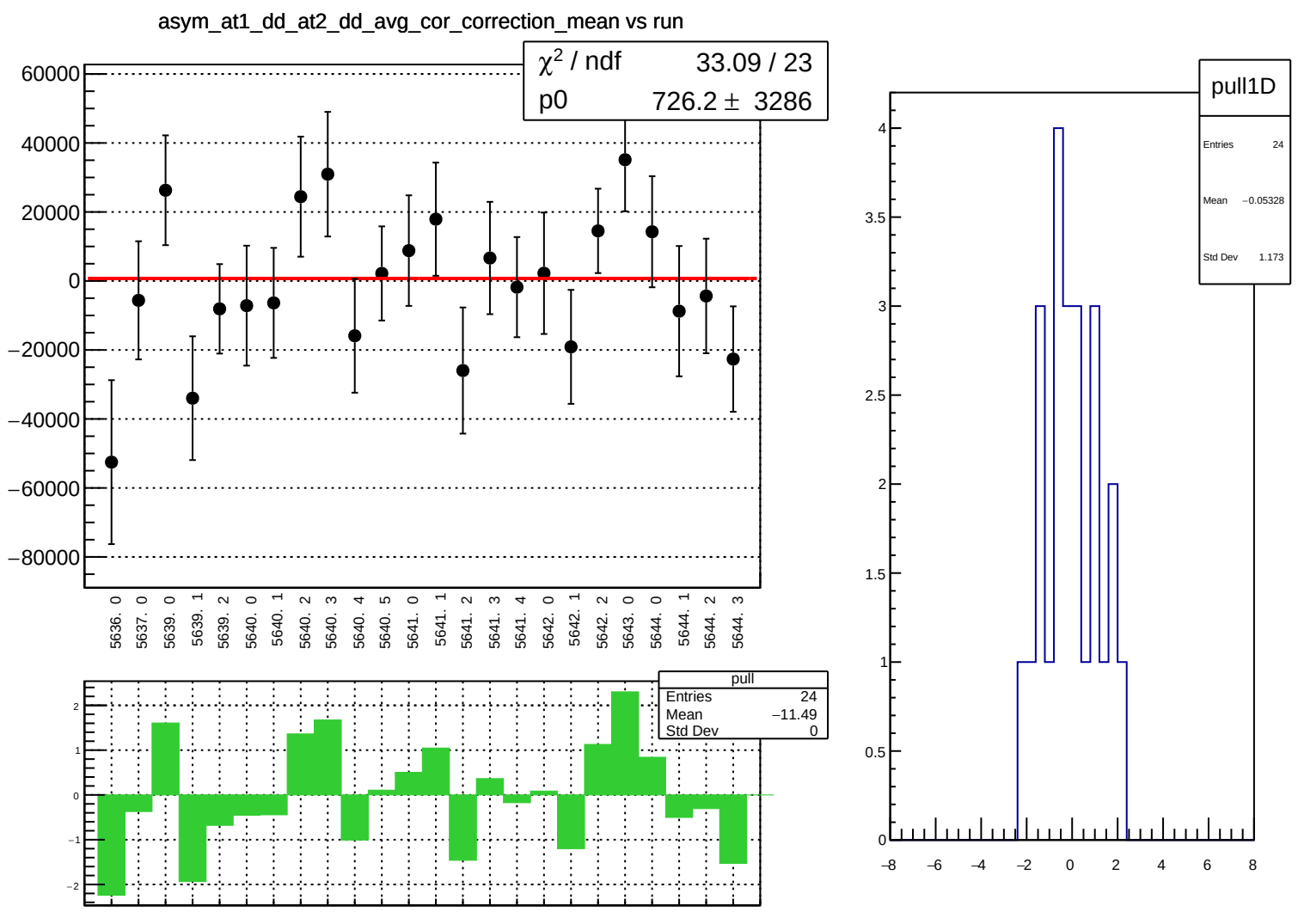
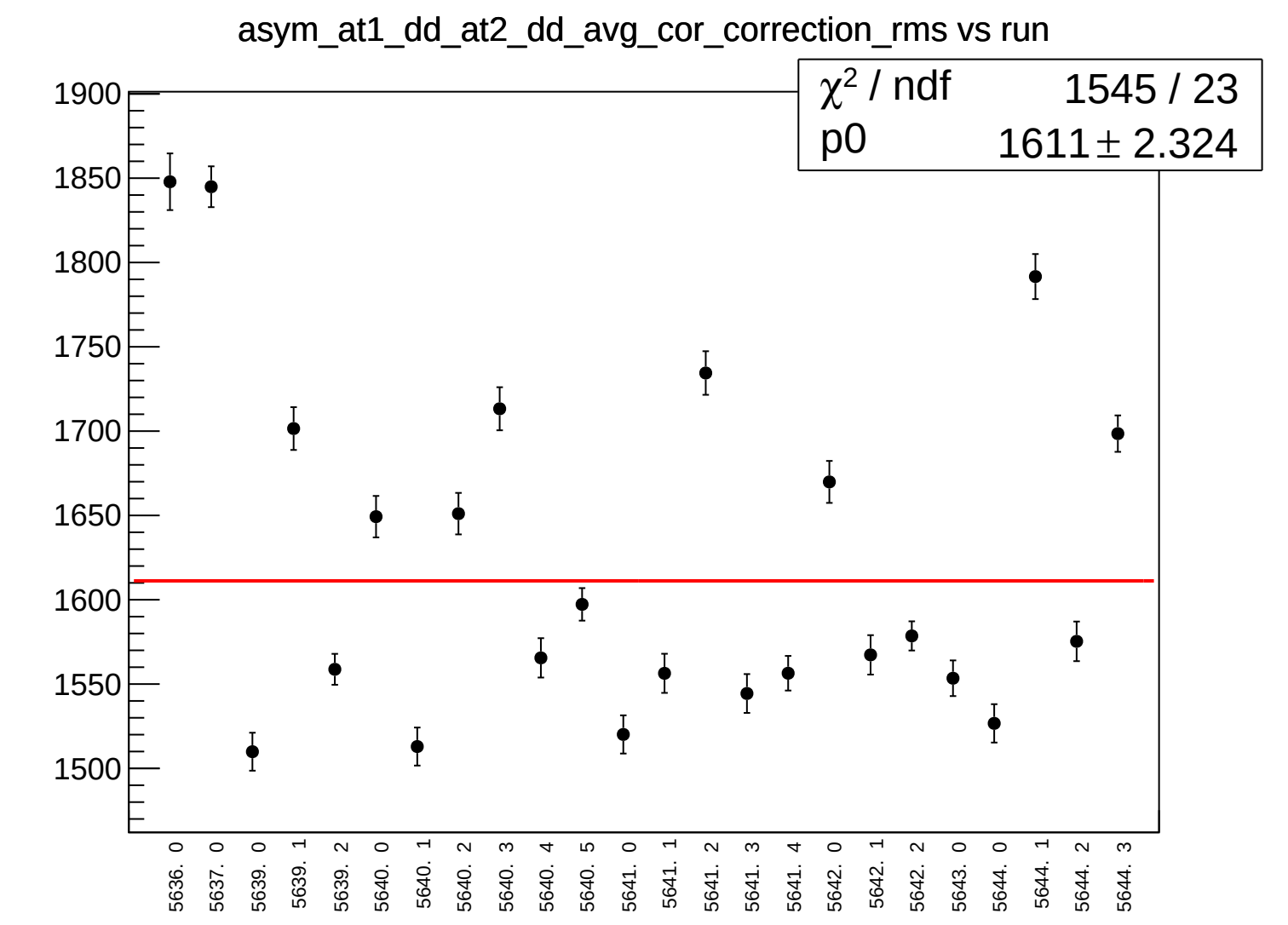
5644. 3


asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 33.09 / 23
p0 726.2 ± 3286
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −11.49
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 24
Mean −0.05328
Std Dev 1.173
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_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 1545 / 23
p0 1611 ± 2.324
1900
1850
1800
1750
1700
1650
1600
1550
1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
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5641. 2
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5644. 0
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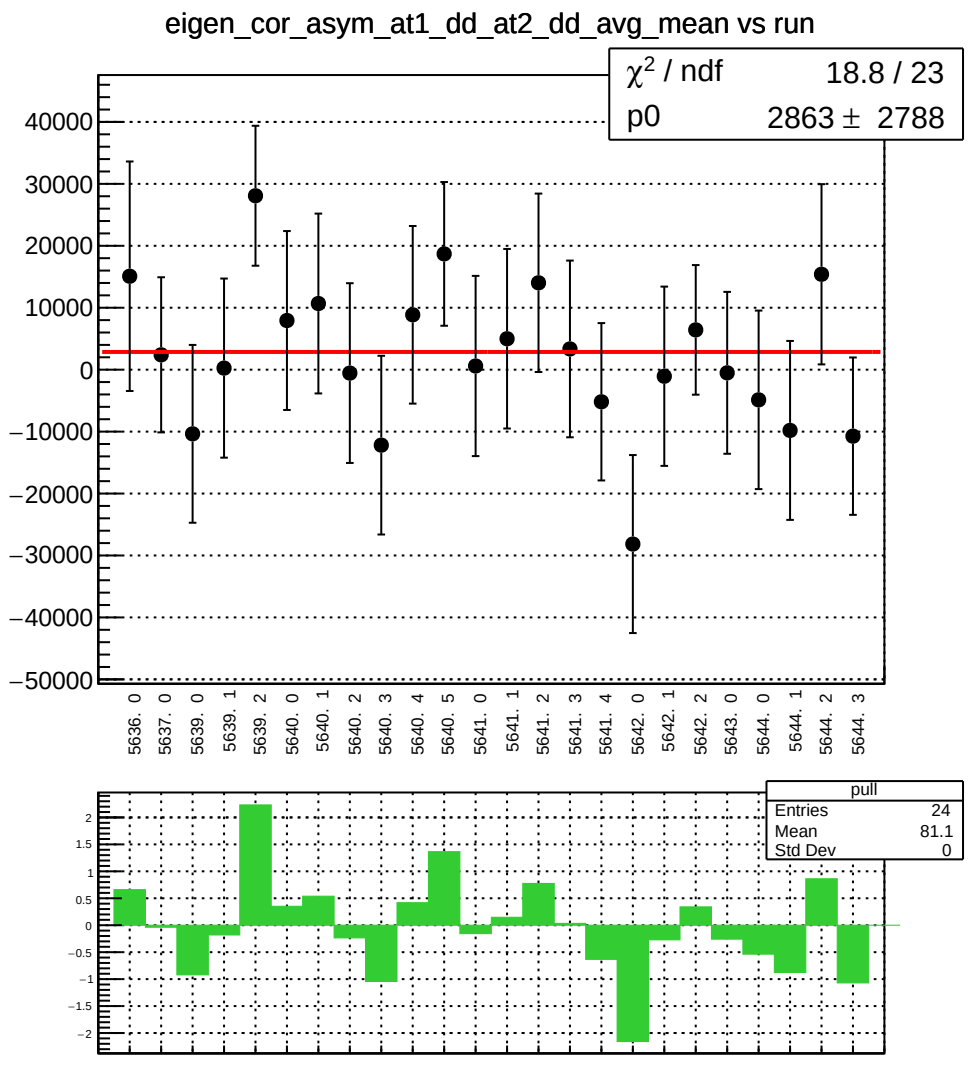
5644. 2
5644. 3


eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 18.8 / 23
p0 2863 ± 2788
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
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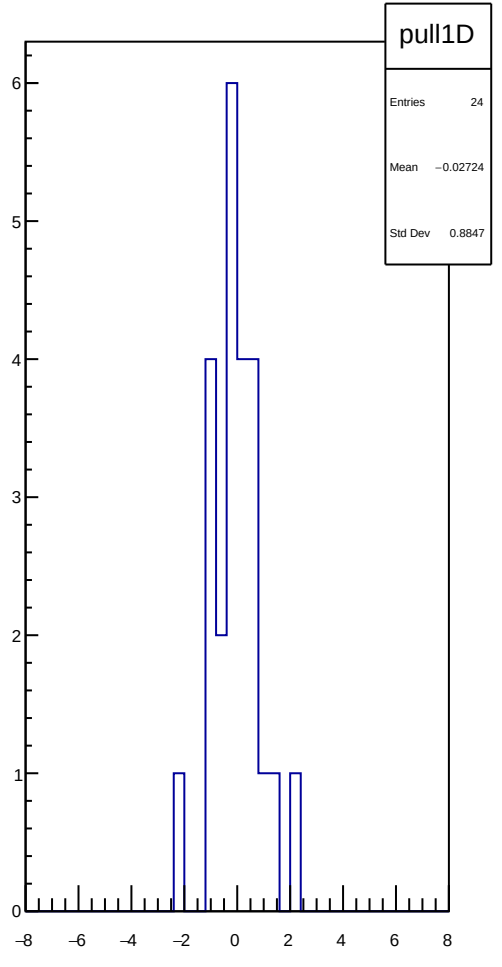
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 81.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.02724
Std Dev 0.8847
6
5
4
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1
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−8
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−4
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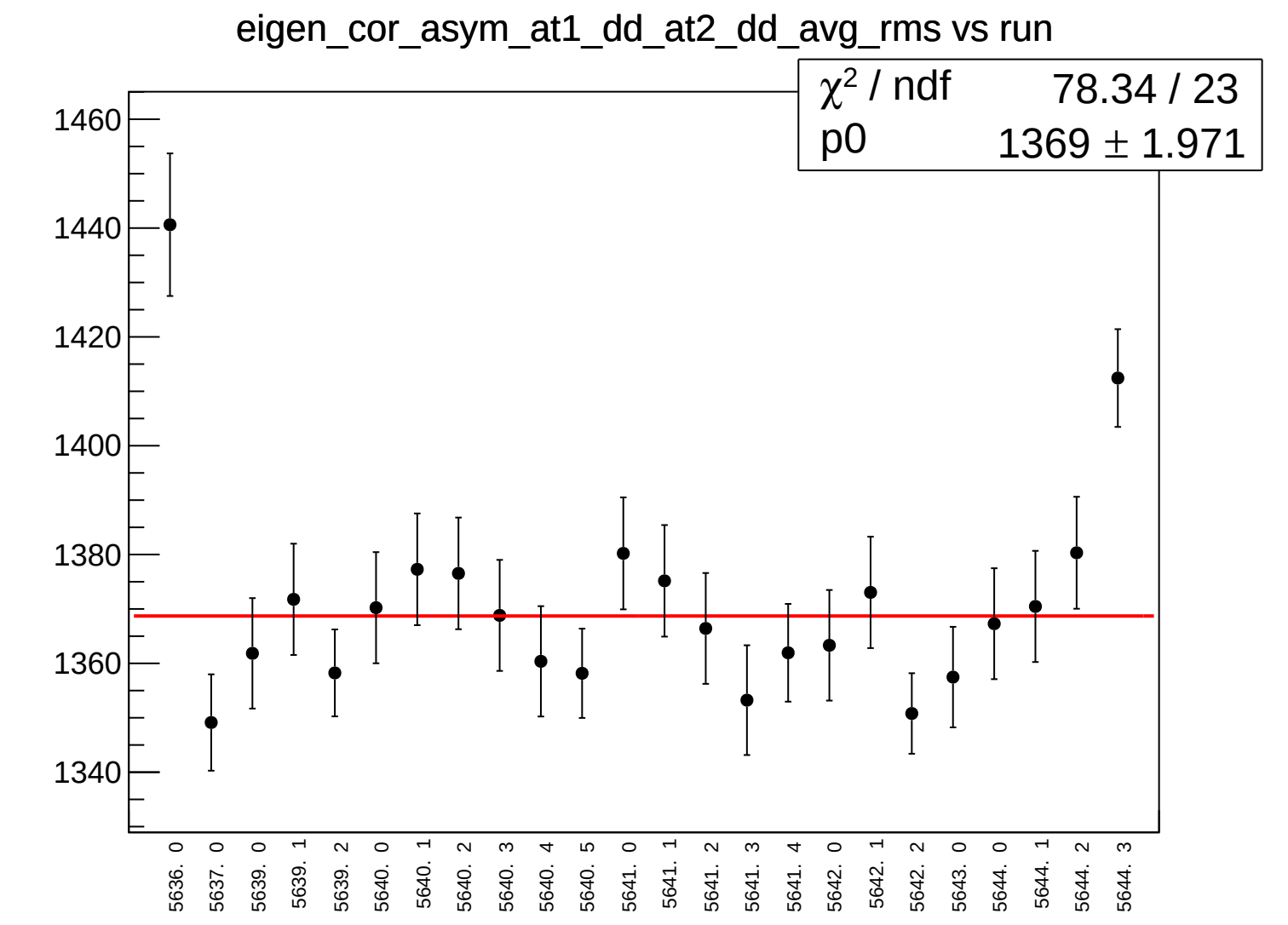
4
6
8


eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 78.34 / 23
p0 1369 ± 1.971
1460
1440
1420
1400
1380
1360
1340
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5644. 0
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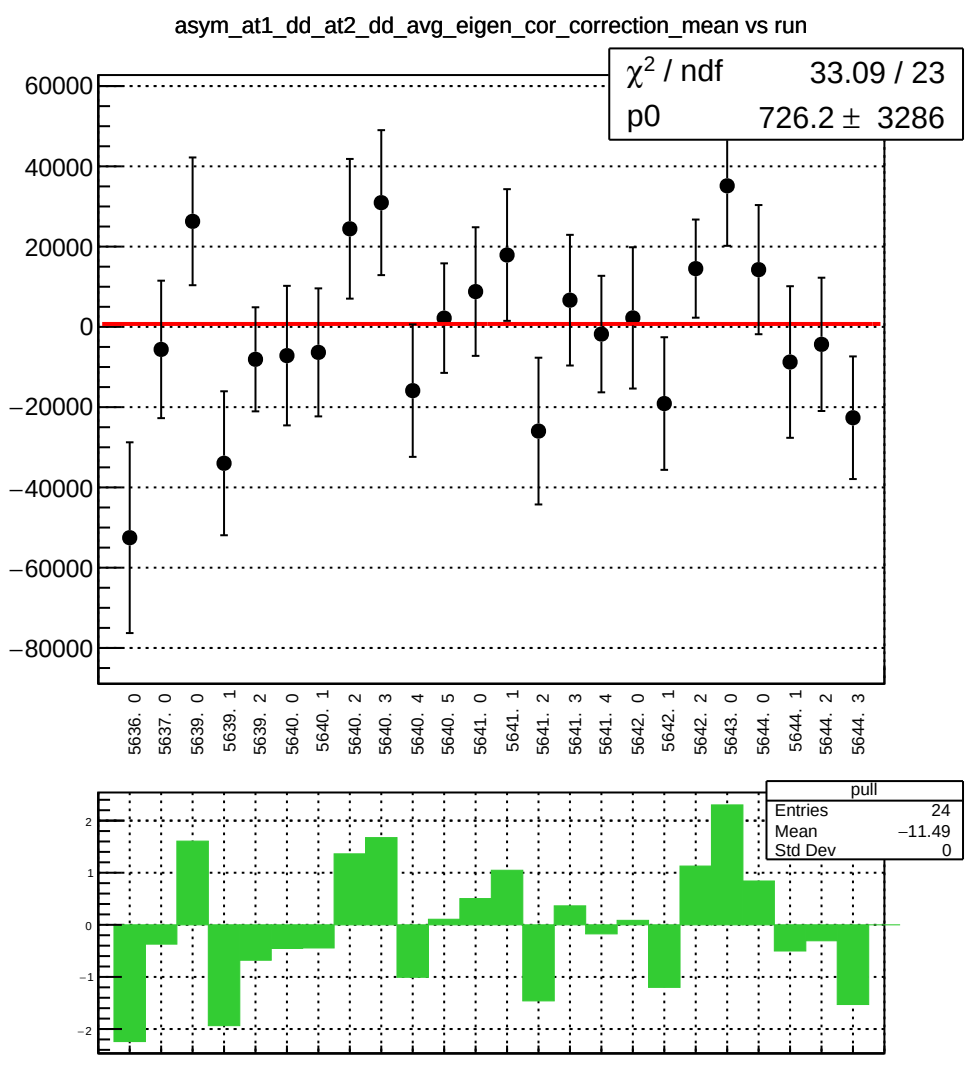
5644. 3


asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 33.09 / 23
p0 726.2 ± 3286
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
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5640. 5
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5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
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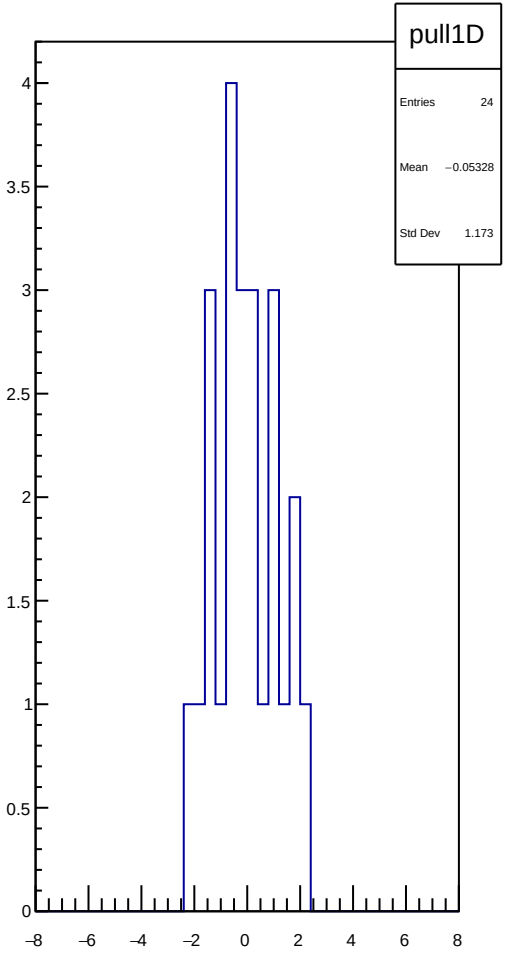
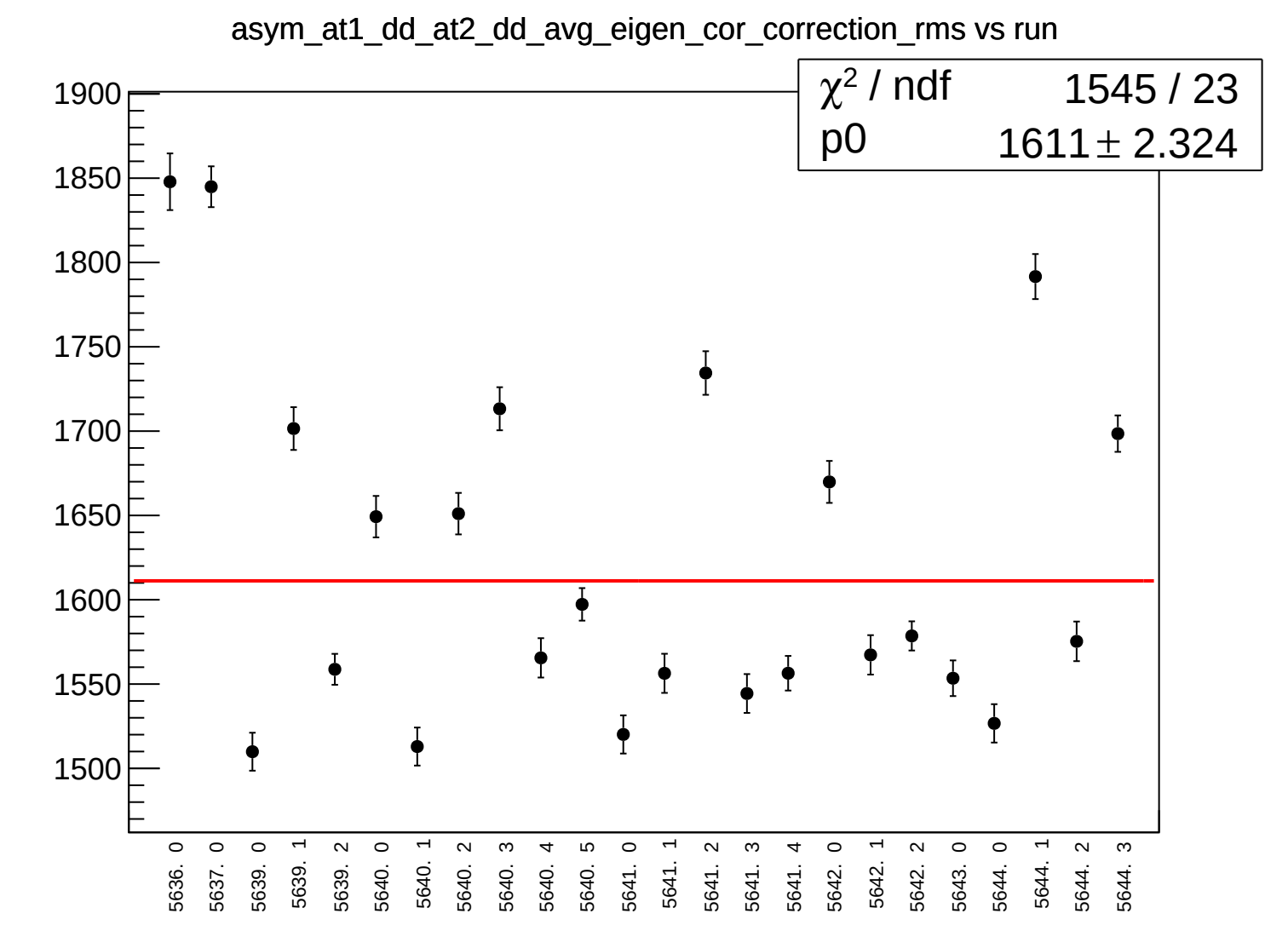
5644. 2
5644. 3
pull
Entries 24
Mean −11.49
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 24
Mean −0.05328
Std Dev 1.173
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_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1545 / 23
p0 1611 ± 2.324
1900
1850
1800
1750
1700
1650
1600
1550
1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
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5641. 2
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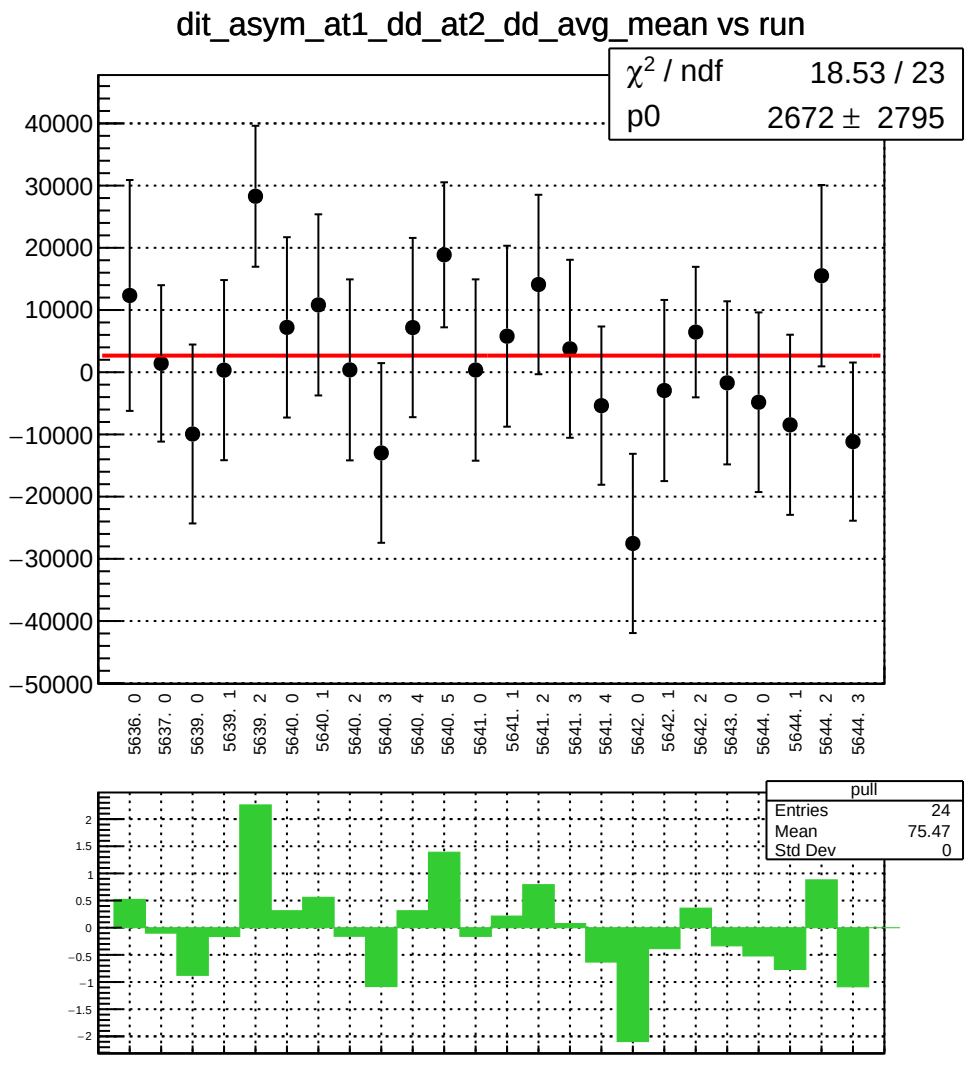
5644. 2
5644. 3


dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 18.53 / 23
p0 2672 ± 2795
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 75.47
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.02824
Std Dev 0.8783
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5
4
3
2
1
0
−8
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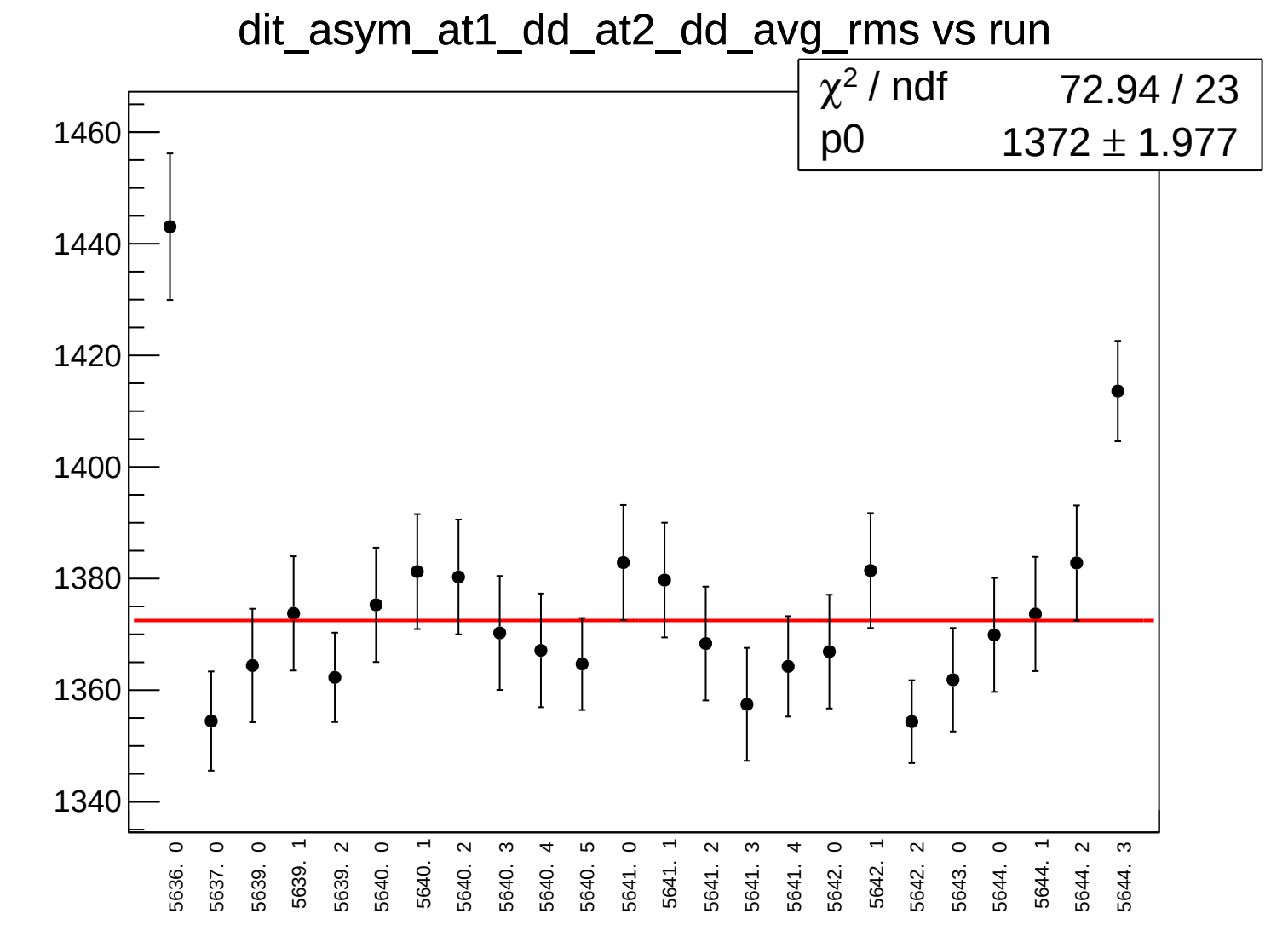
−4
−2
0
2
4
6
8


dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 72.94 / 23
p0 1372 ± 1.977
1460
1440
1420
1400
1380
1360
1340
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
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5640. 4
5640. 5
5641. 0
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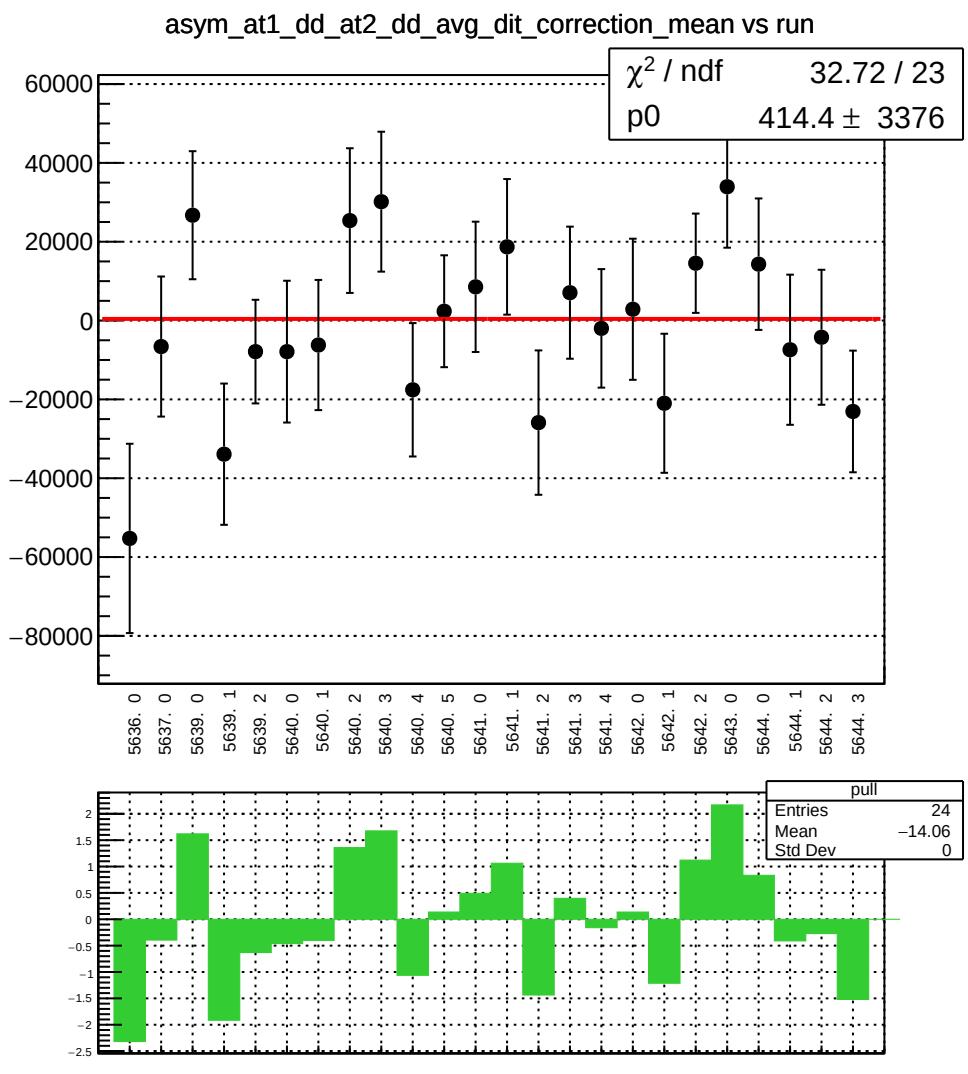
asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 32.72 / 23
p0 414.4 ± 3376
60000
40000
20000
0
−20000
−40000
−60000
−80000
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5640. 4
5640. 5
5641. 0
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5641. 3
5641. 4
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5643. 0
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5644. 2
5644. 3
pull
Entries 24
Mean −14.06
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean −0.04958
Std Dev 1.167
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
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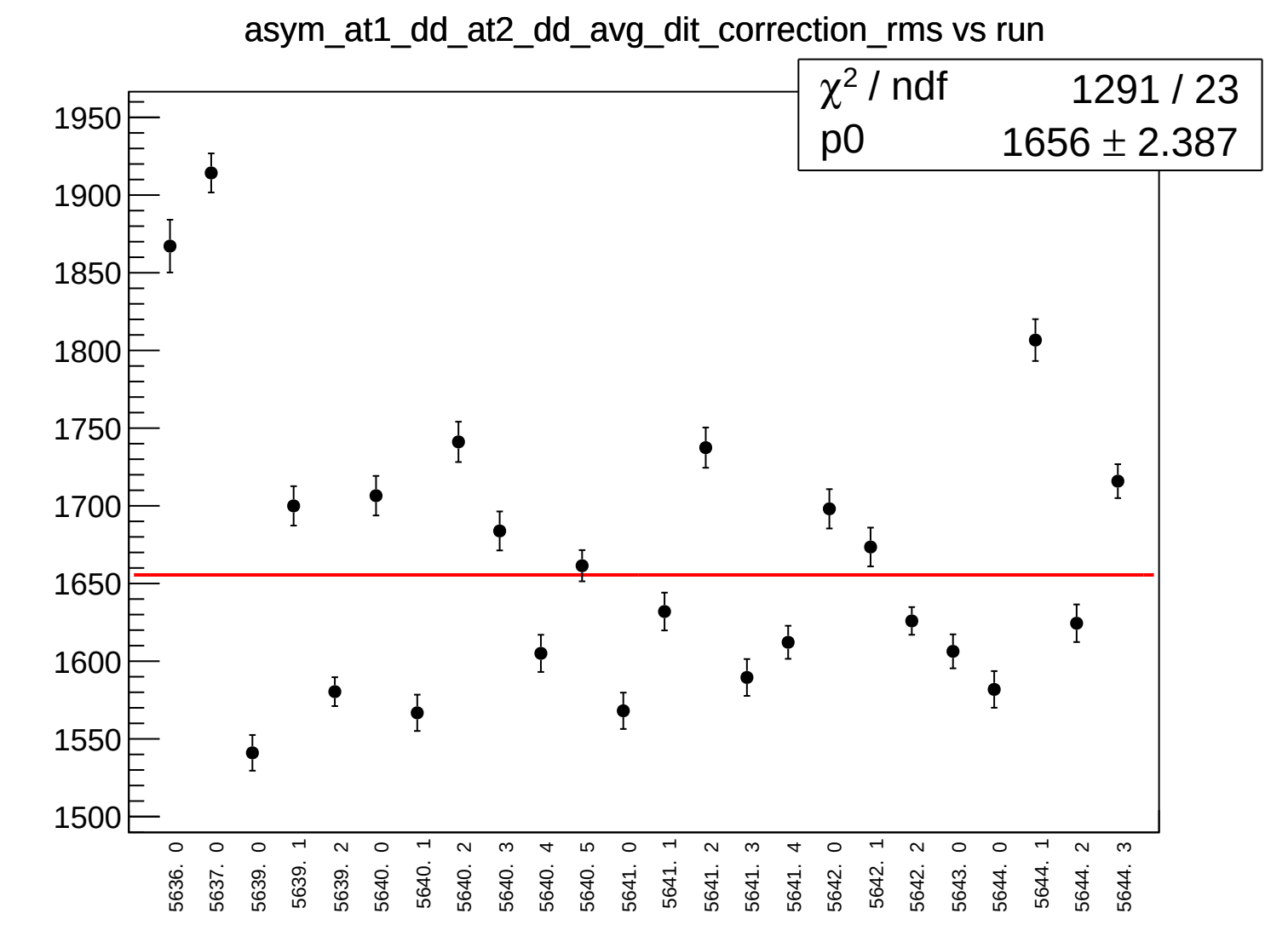
−4
−2
0
2
4
6
8


asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 1291 / 23
p0 1656 ± 2.387
1950
1900
1850
1800
1750
1700
1650
1600
1550
1500
5636. 0
5637. 0
5639. 0
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5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
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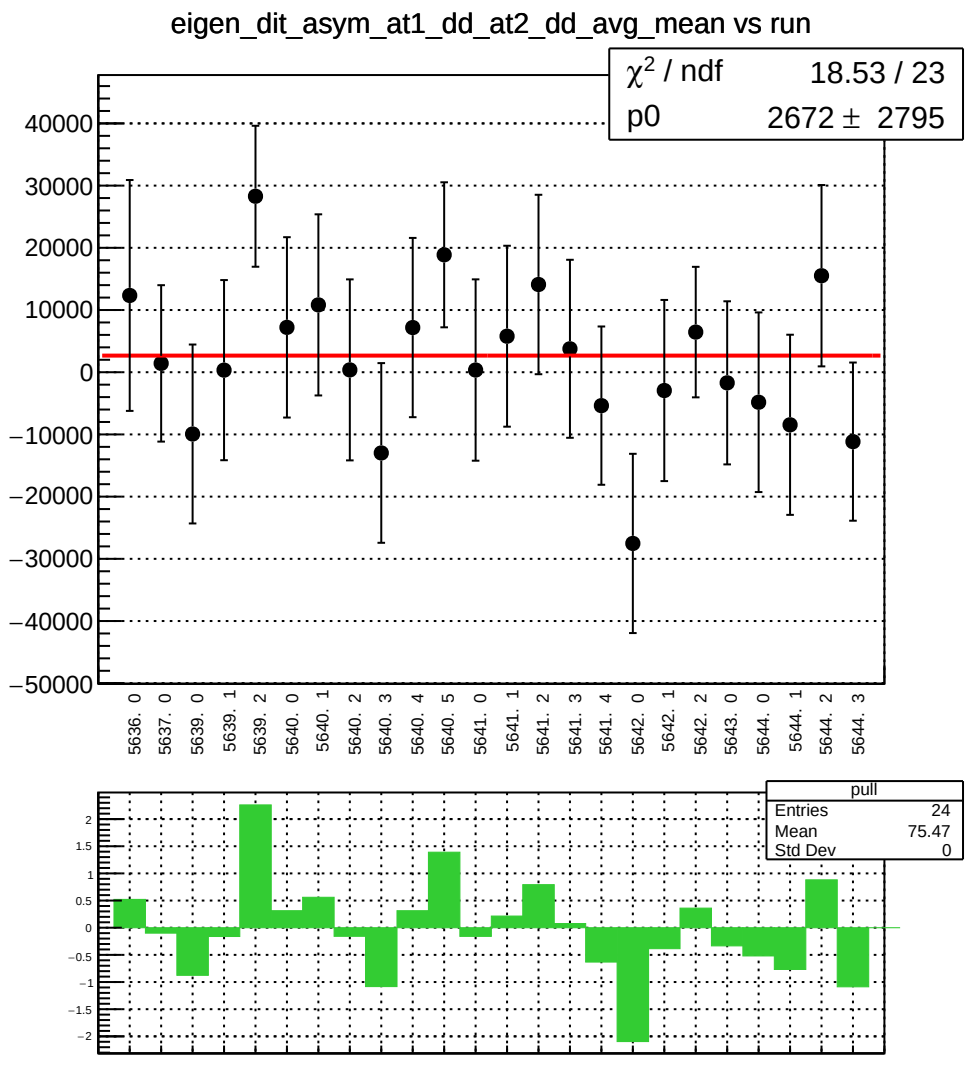
5644. 2
5644. 3


eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 18.53 / 23
p0 2672 ± 2795
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
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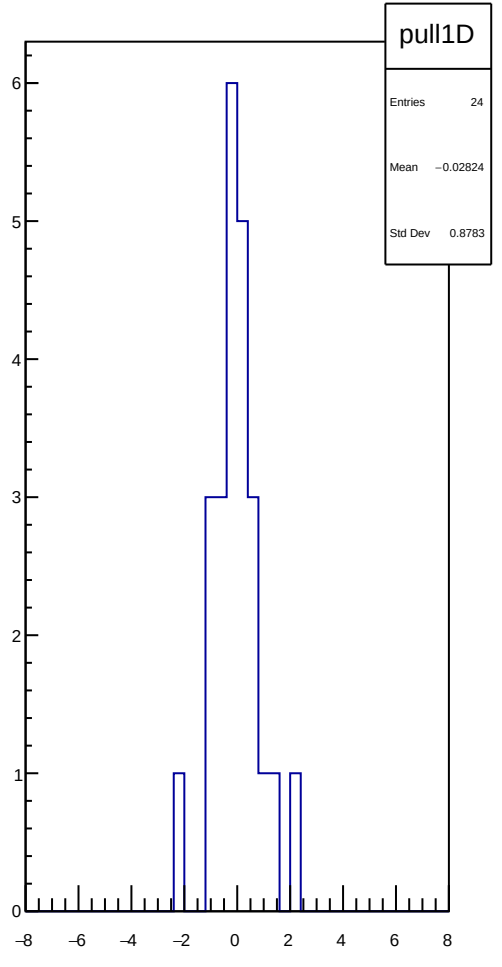
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 75.47
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.02824
Std Dev 0.8783
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5
4
3
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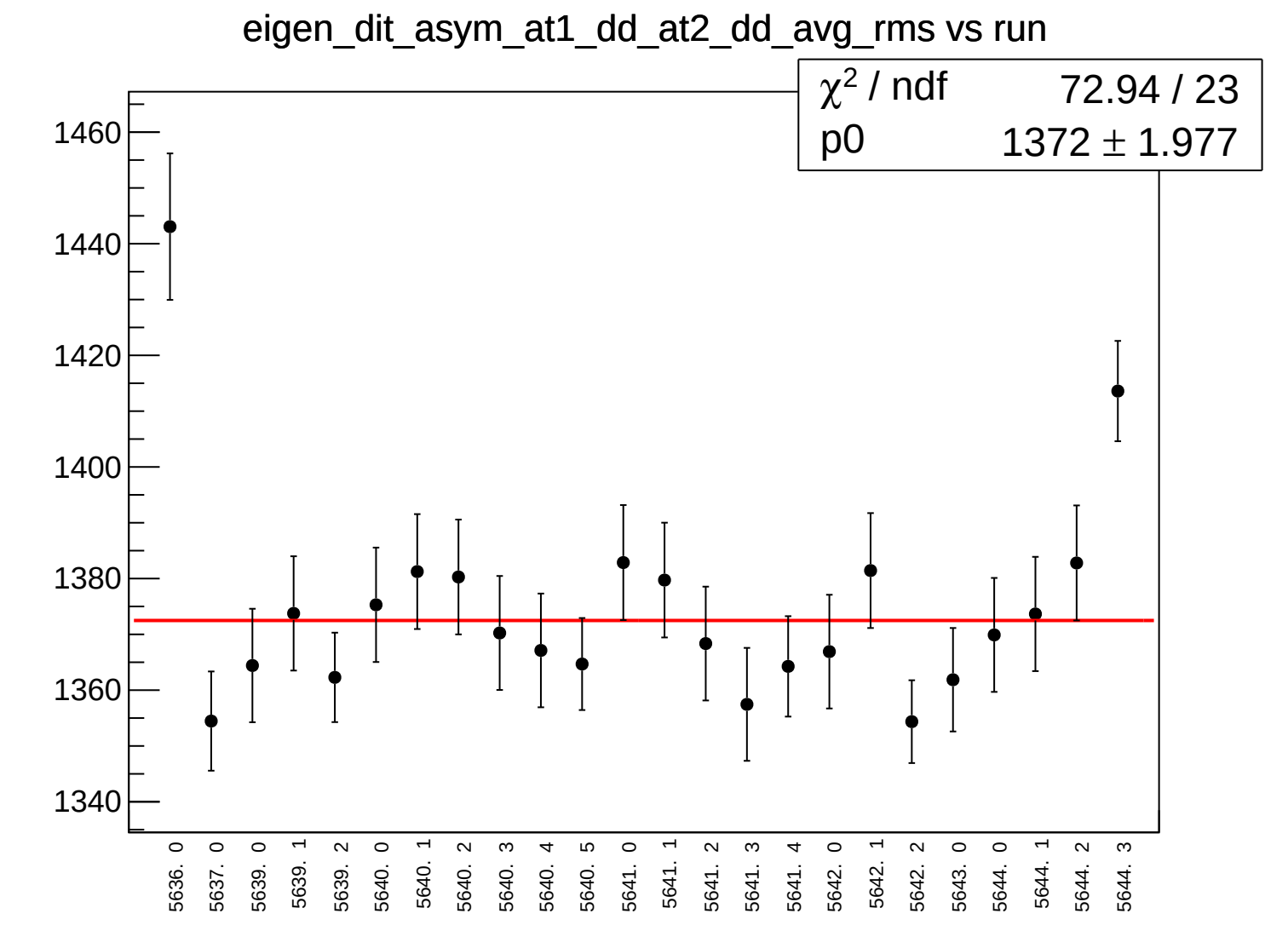
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 72.94 / 23
p0 1372 ± 1.977
1460
1440
1420
1400
1380
1360
1340
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
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5642. 2
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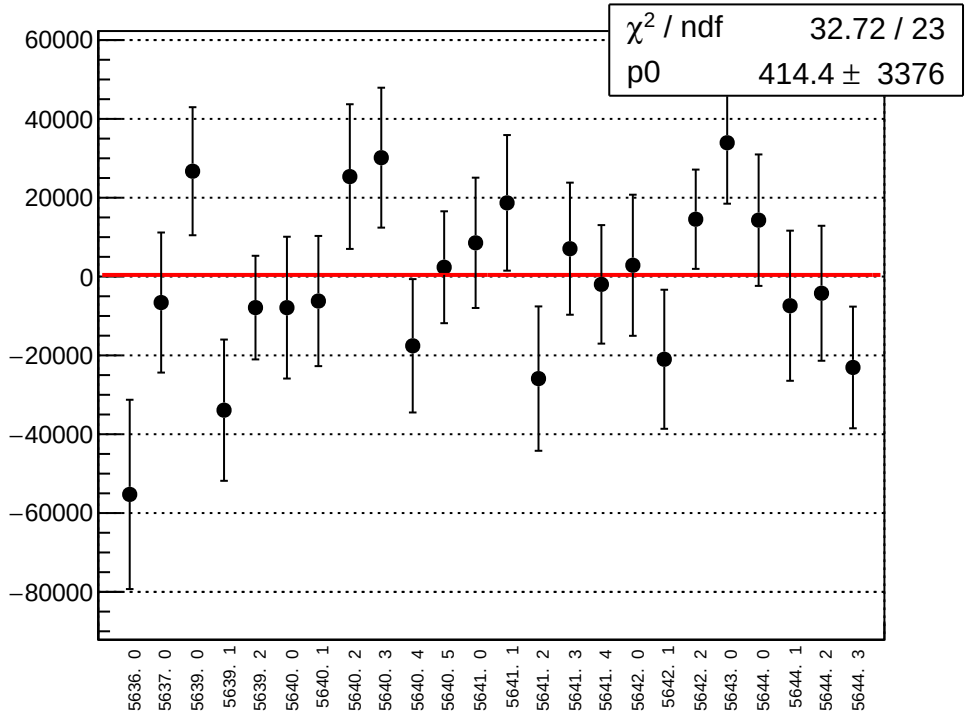
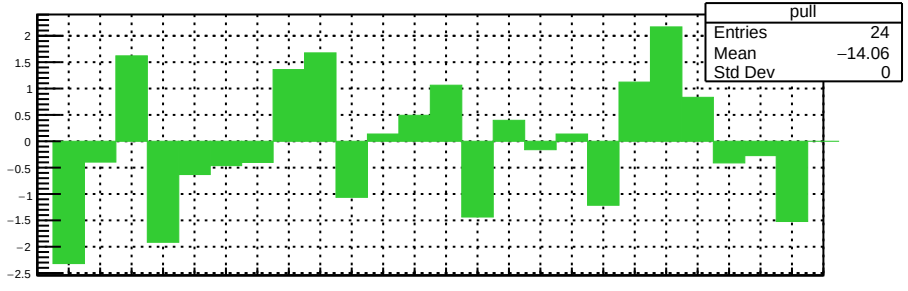
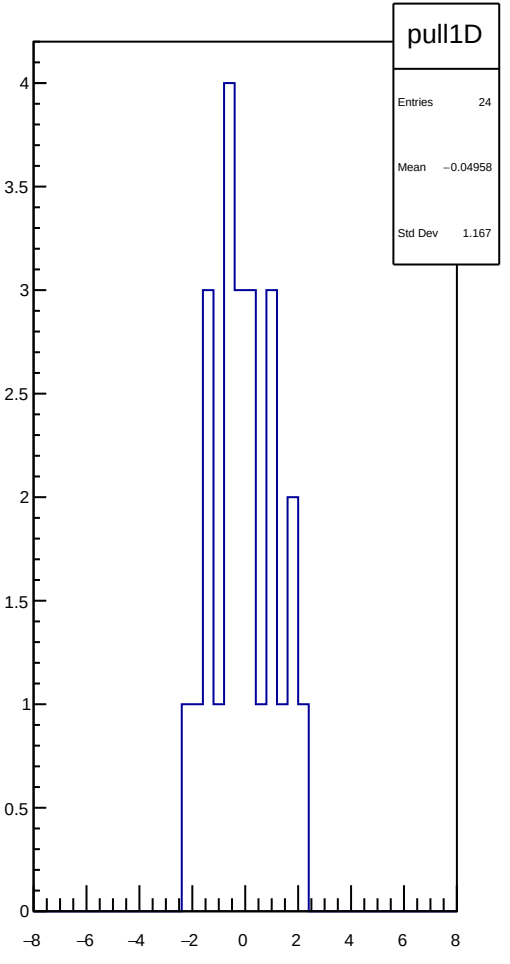
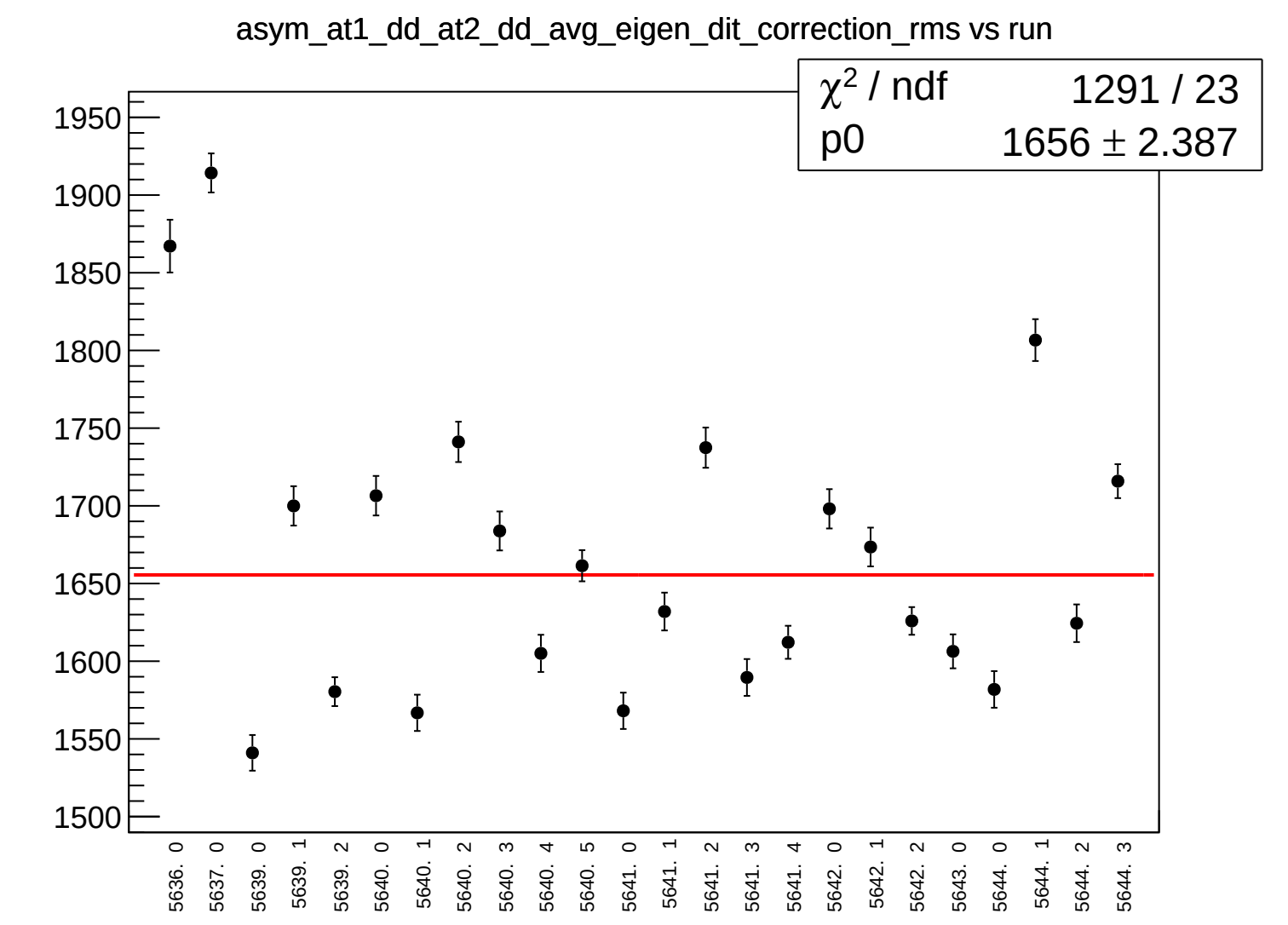
5644. 2
5644. 3

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run








asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1291 / 23
p0 1656 ± 2.387
1950
1900
1850
1800
1750
1700
1650
1600
1550
1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
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5642. 2
5643. 0
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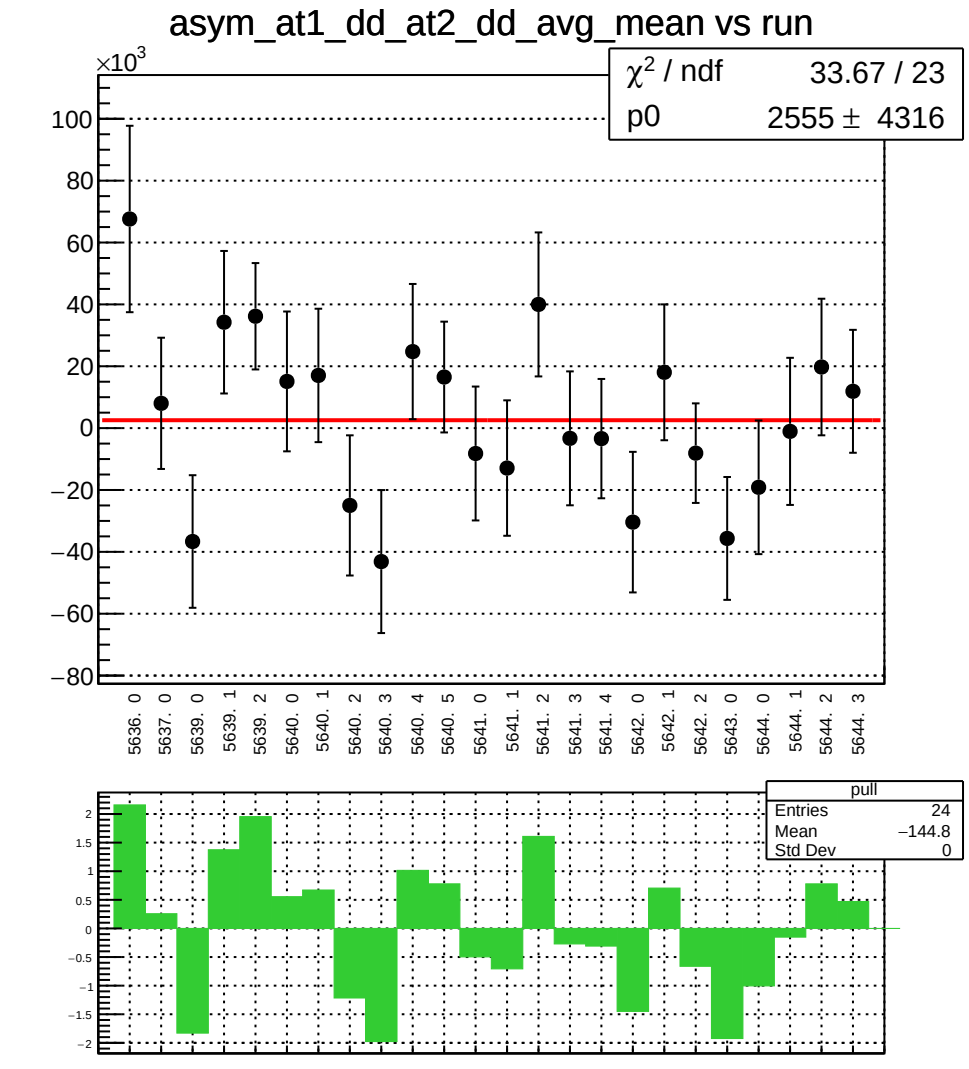
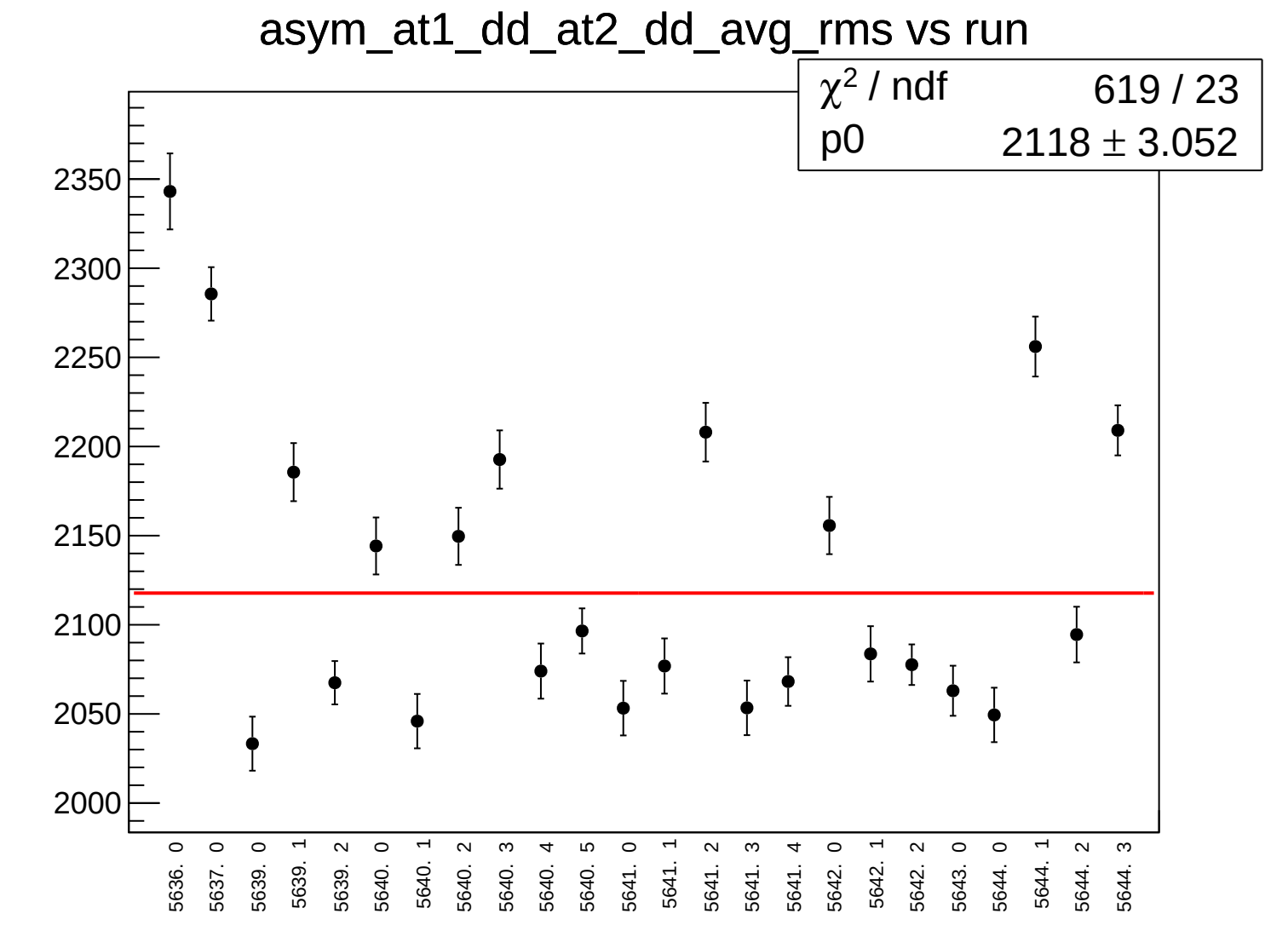
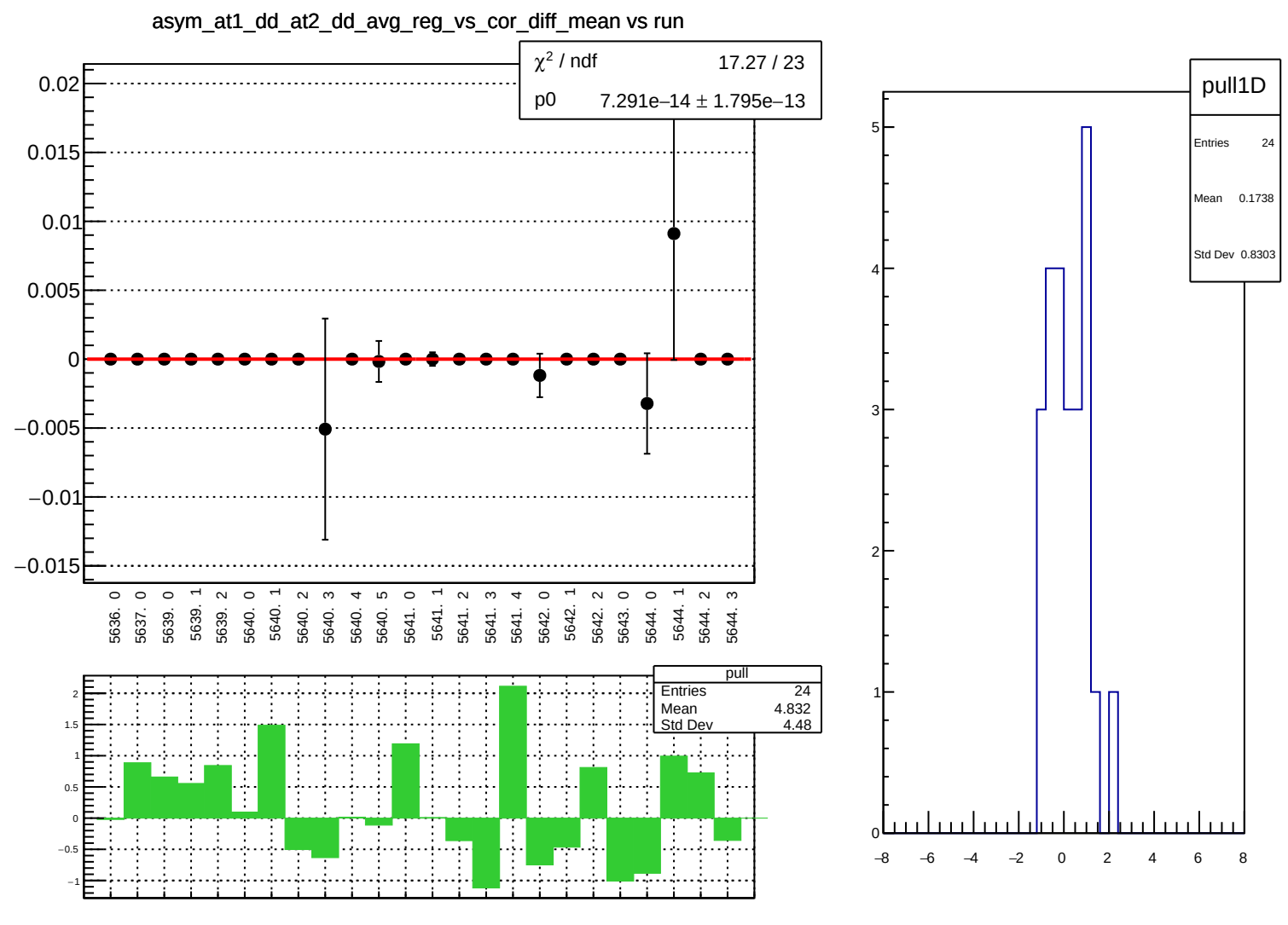
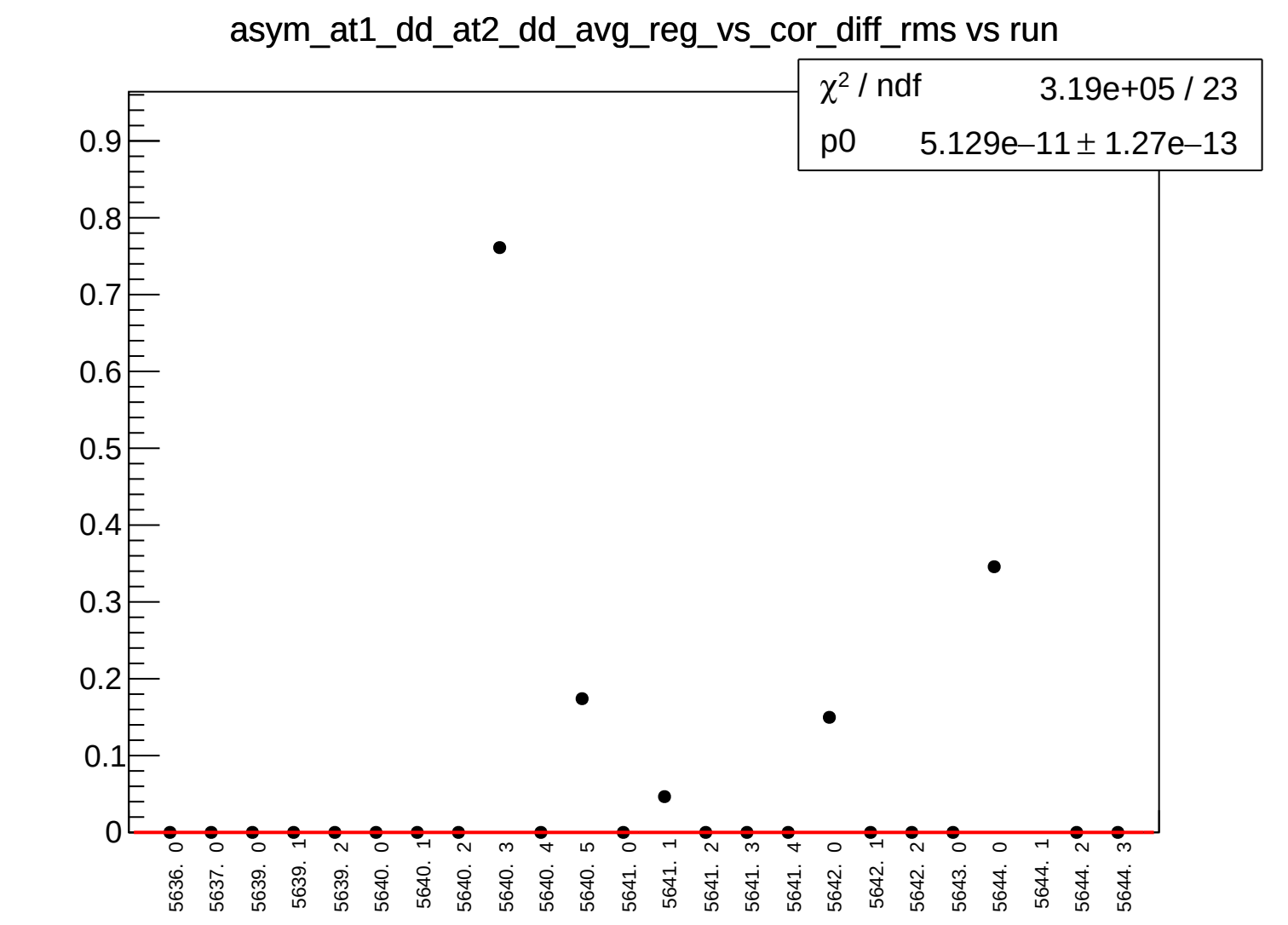
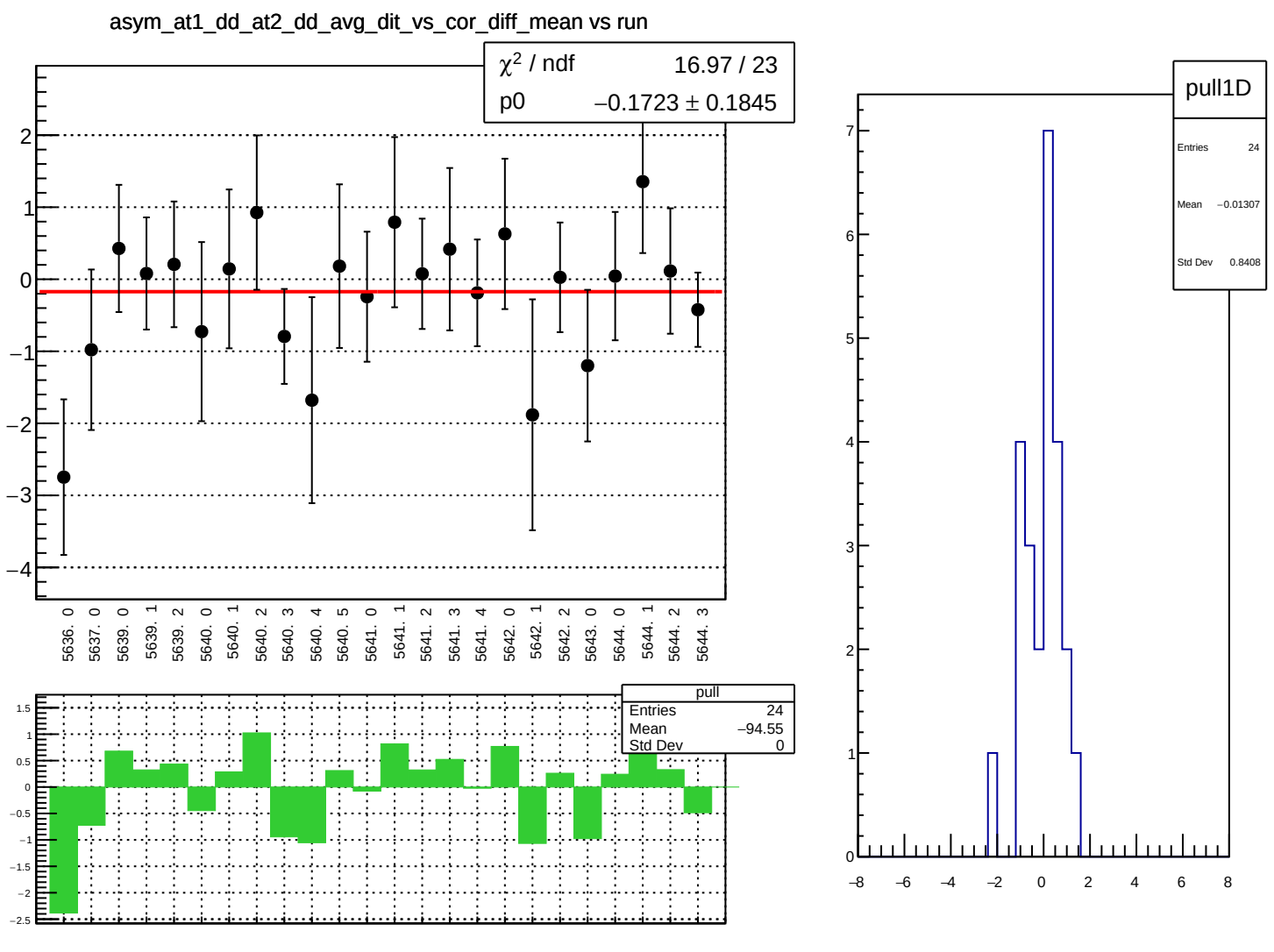
5644. 1
5644. 2
5644. 3

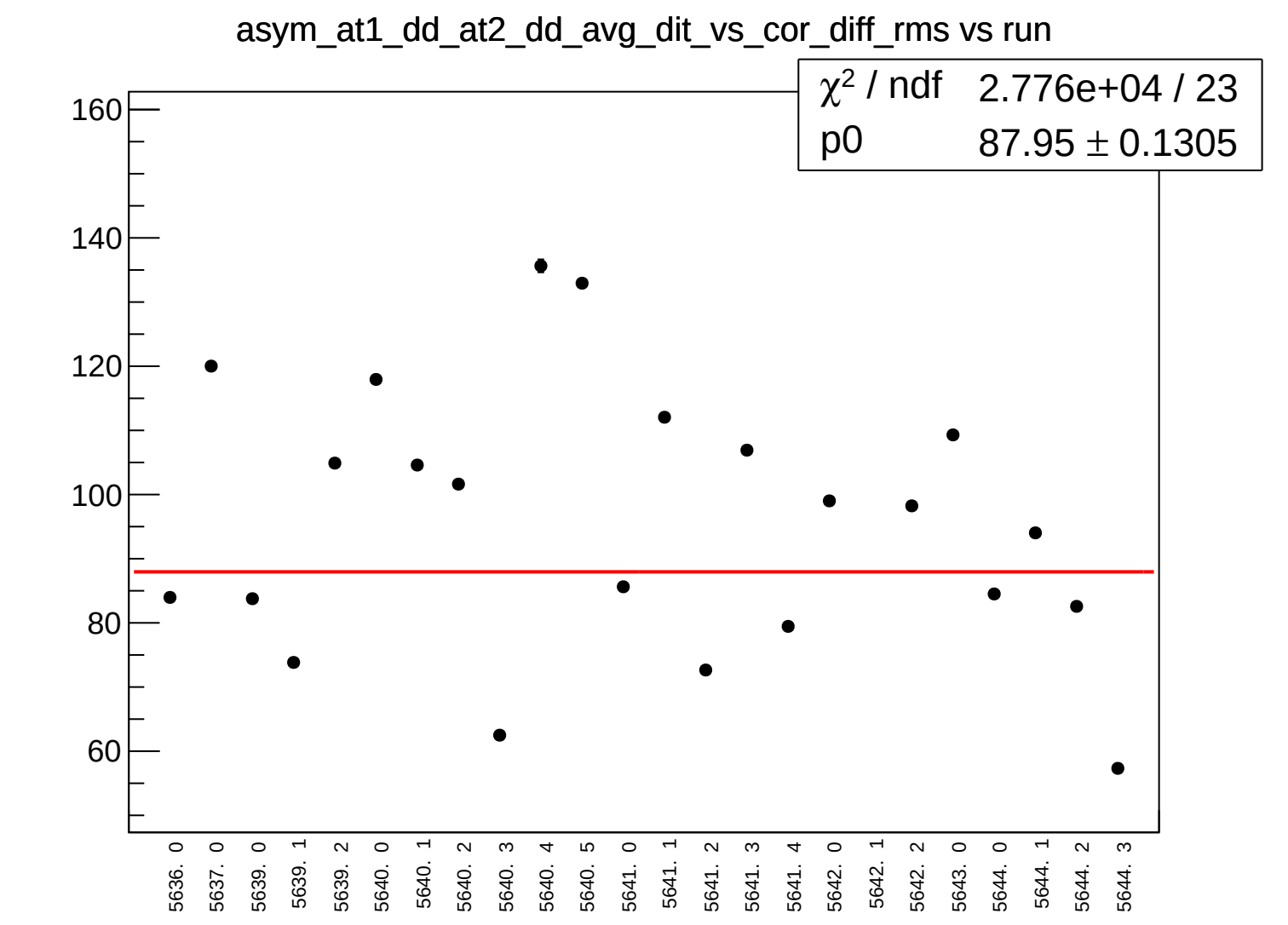

asym_at1_dd_at2_dd_avg_mean vs run
×10^3
χ^2 / ndf 33.67 / 23
p0 2555 ± 4316
100
80
60
40
20
0
−20
−40
−60
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −144.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.0139
Std Dev 1.184
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

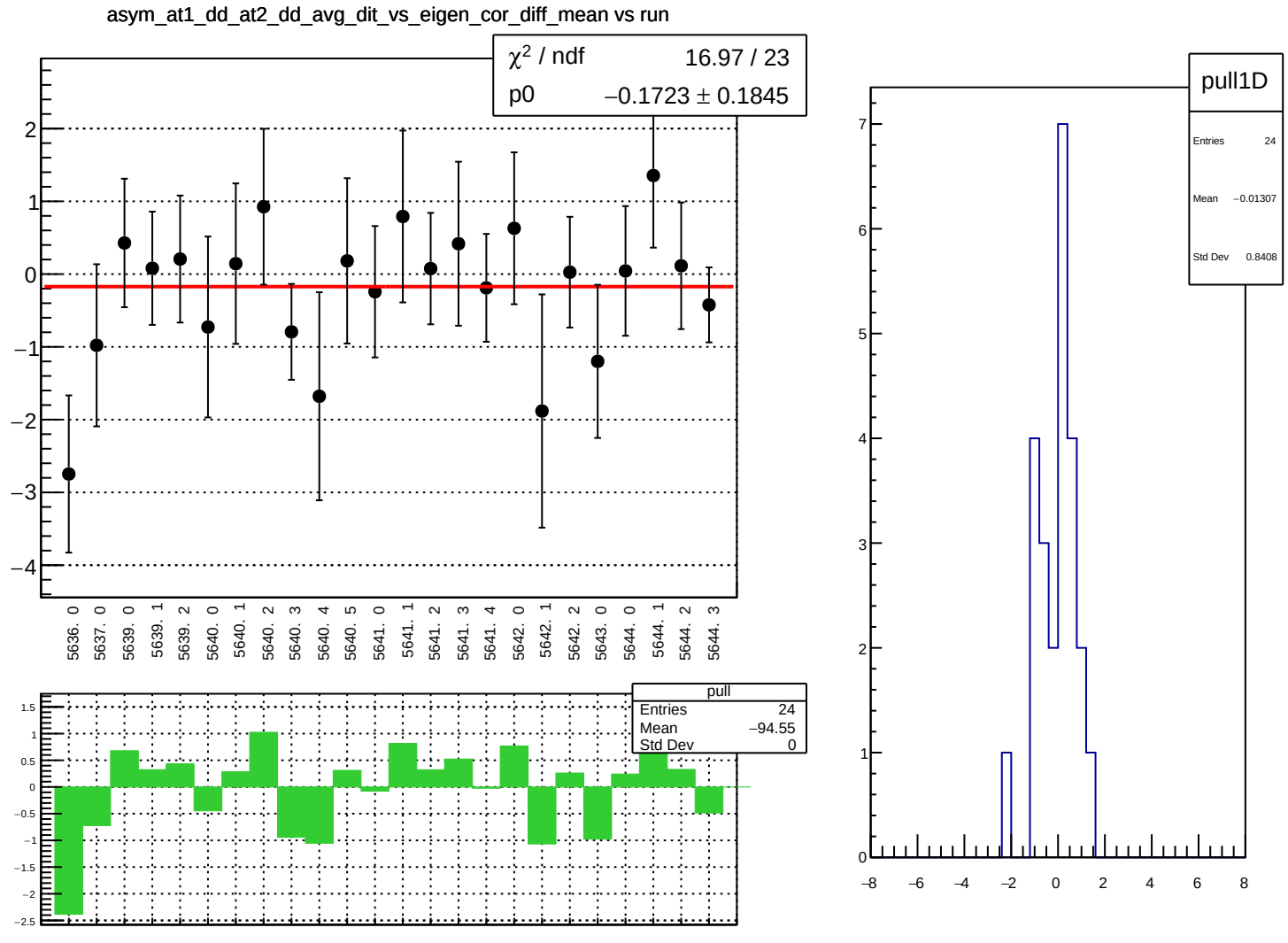

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 619 / 23
p0 2118 ± 3.052
2350
2300
2250
2200
2150
2100
2050
2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

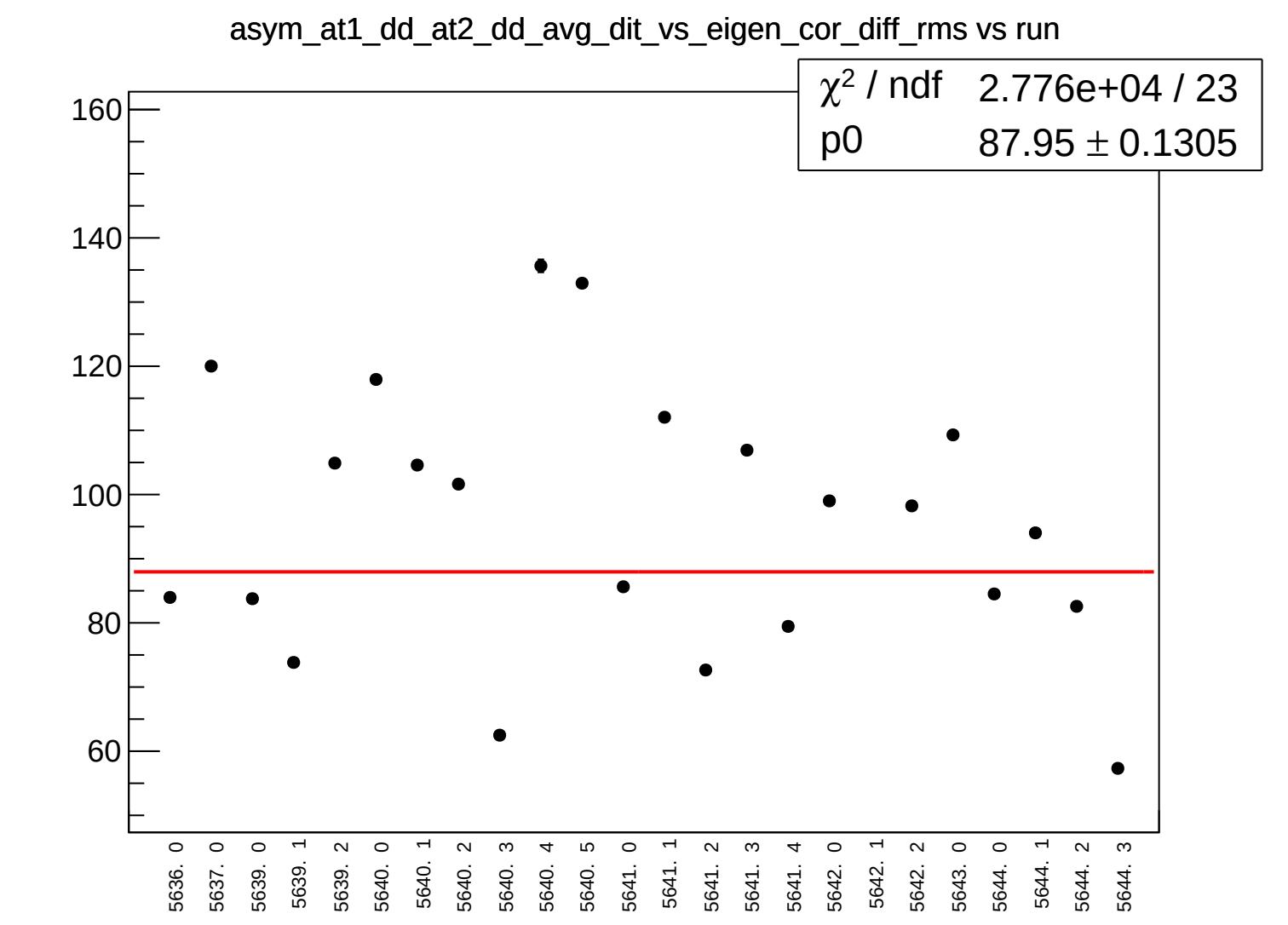

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 17.27 / 23
p0 7.291e−14 ± 1.795e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 4.832
Std Dev 4.48
pull1D
Entries 24
Mean 0.1738
Std Dev 0.8303

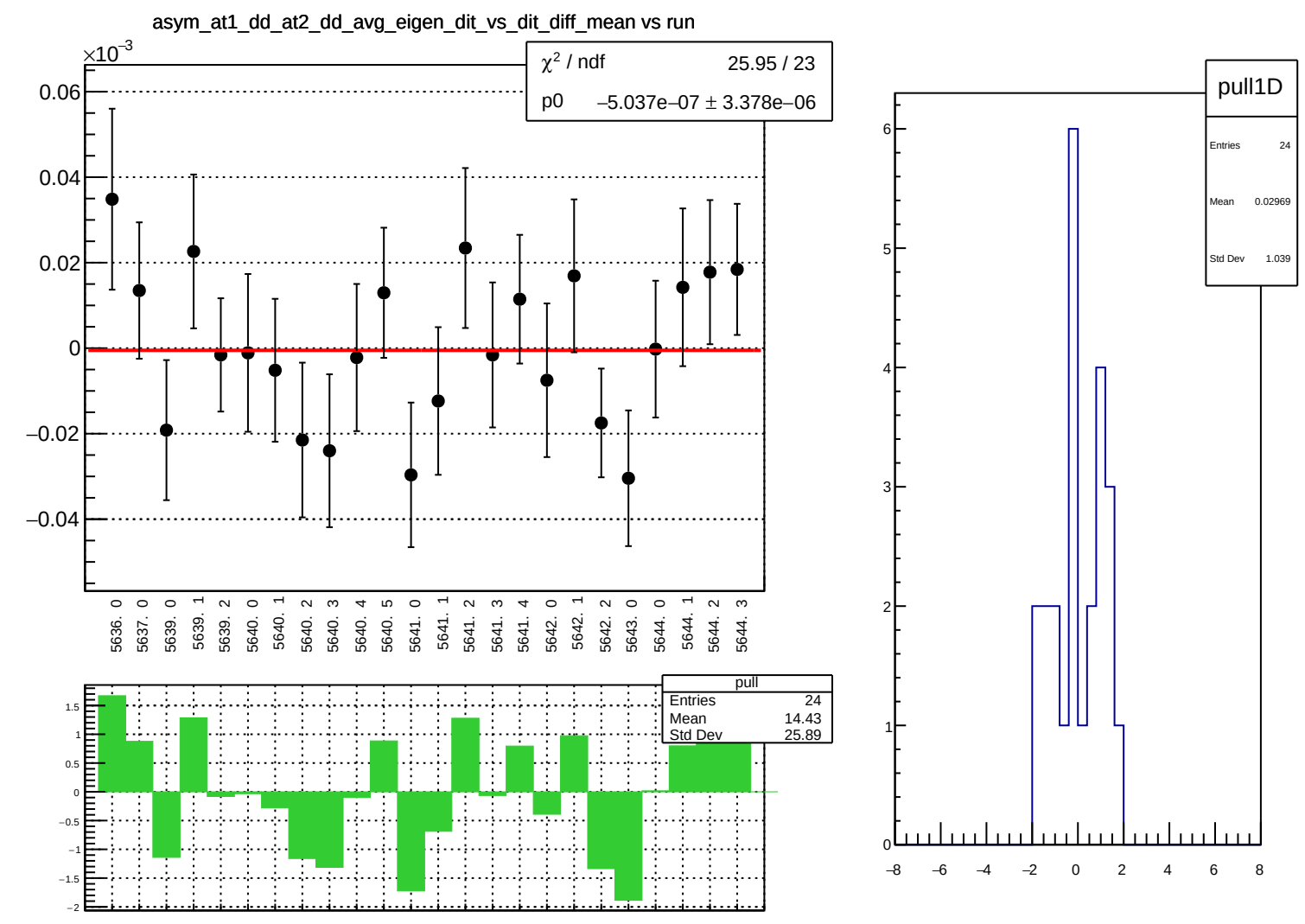

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.19e+05 / 23
p0 5.129e−11 ± 1.27e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

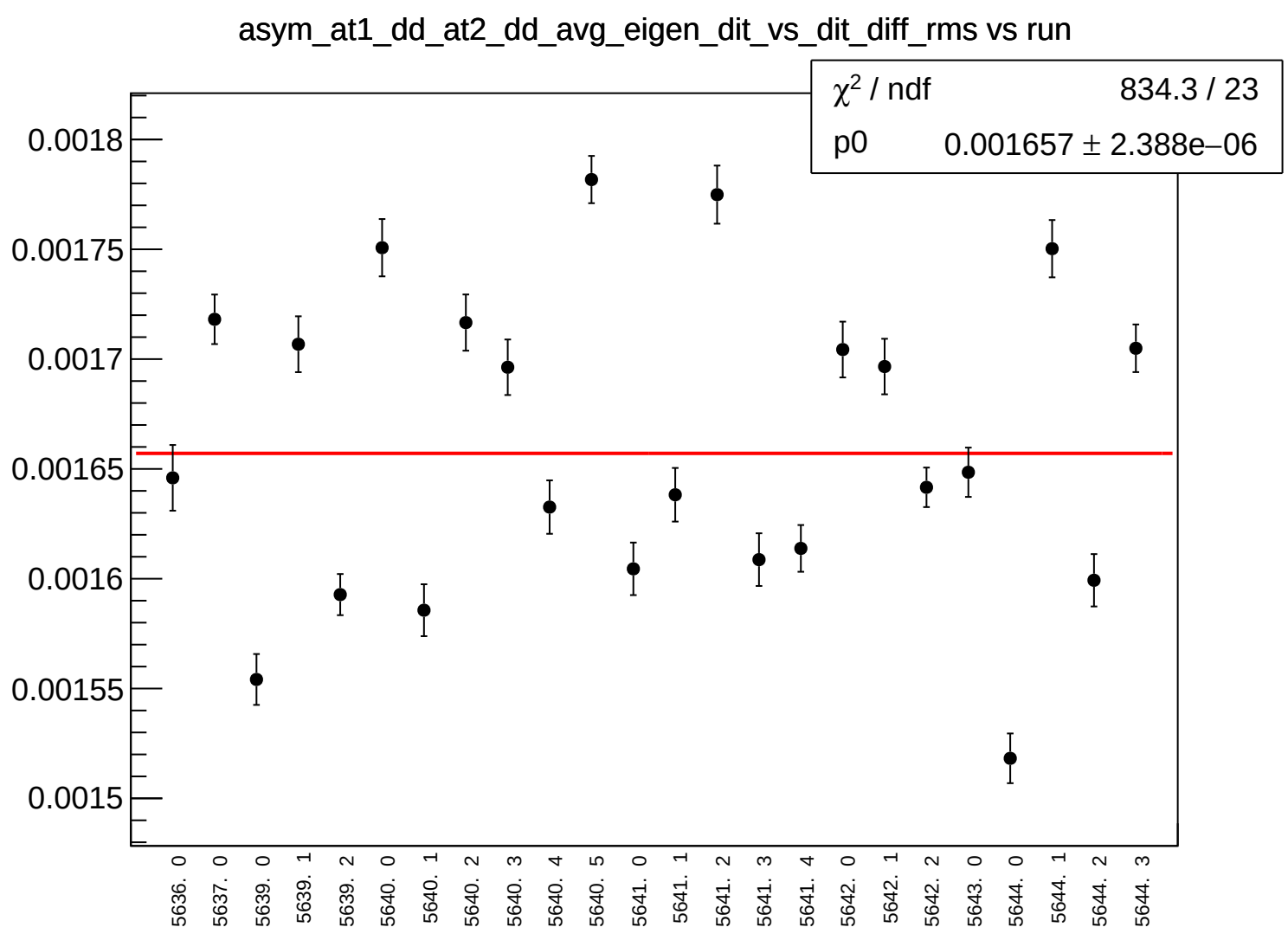

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 16.97 / 23
p0 −0.1723 ± 0.1845
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −94.55
Std Dev 0
pull1D
Entries 24
Mean −0.01307
Std Dev 0.8408

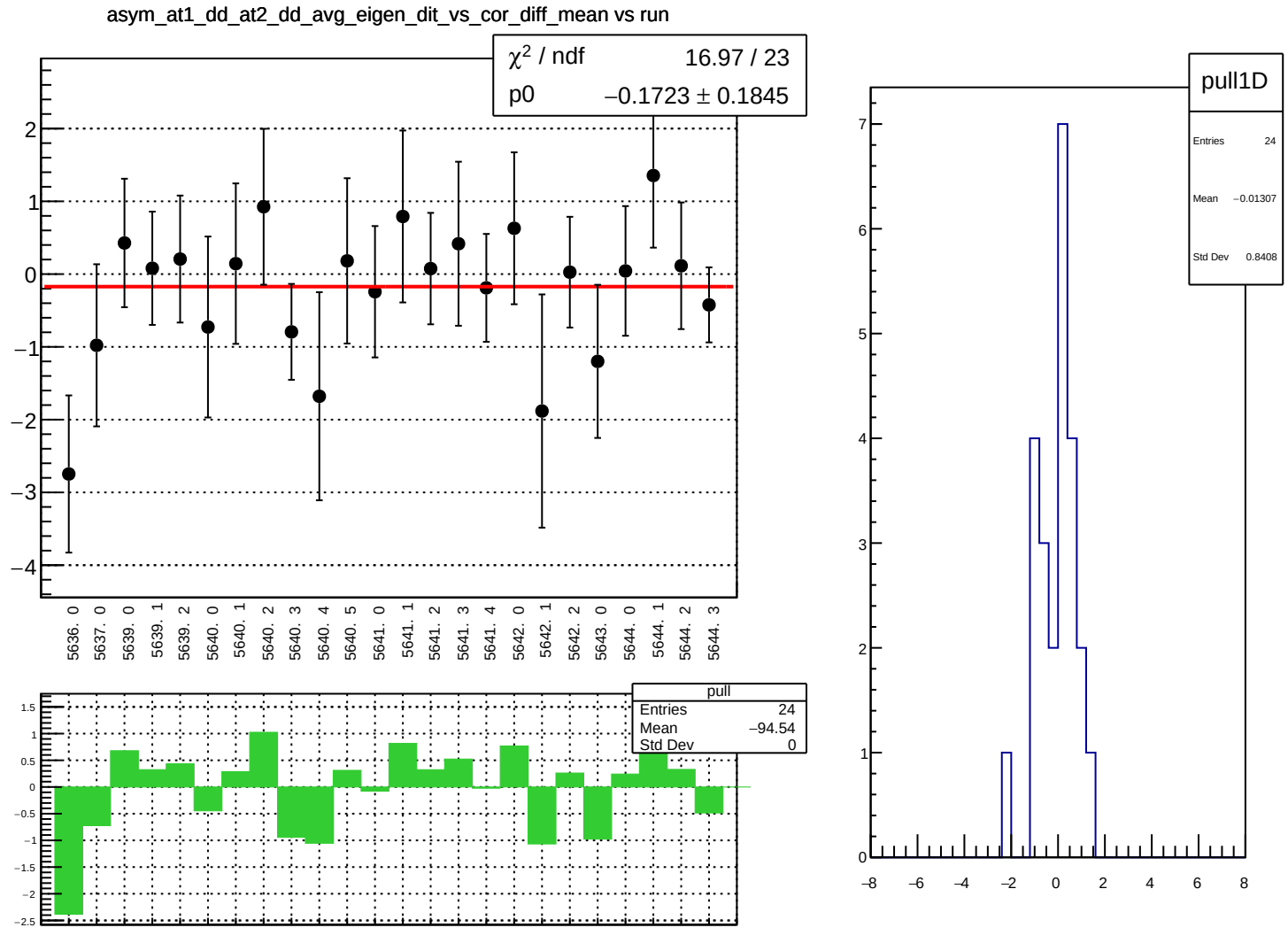

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.776e+04 / 23
p0 87.95 ± 0.1305
160
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

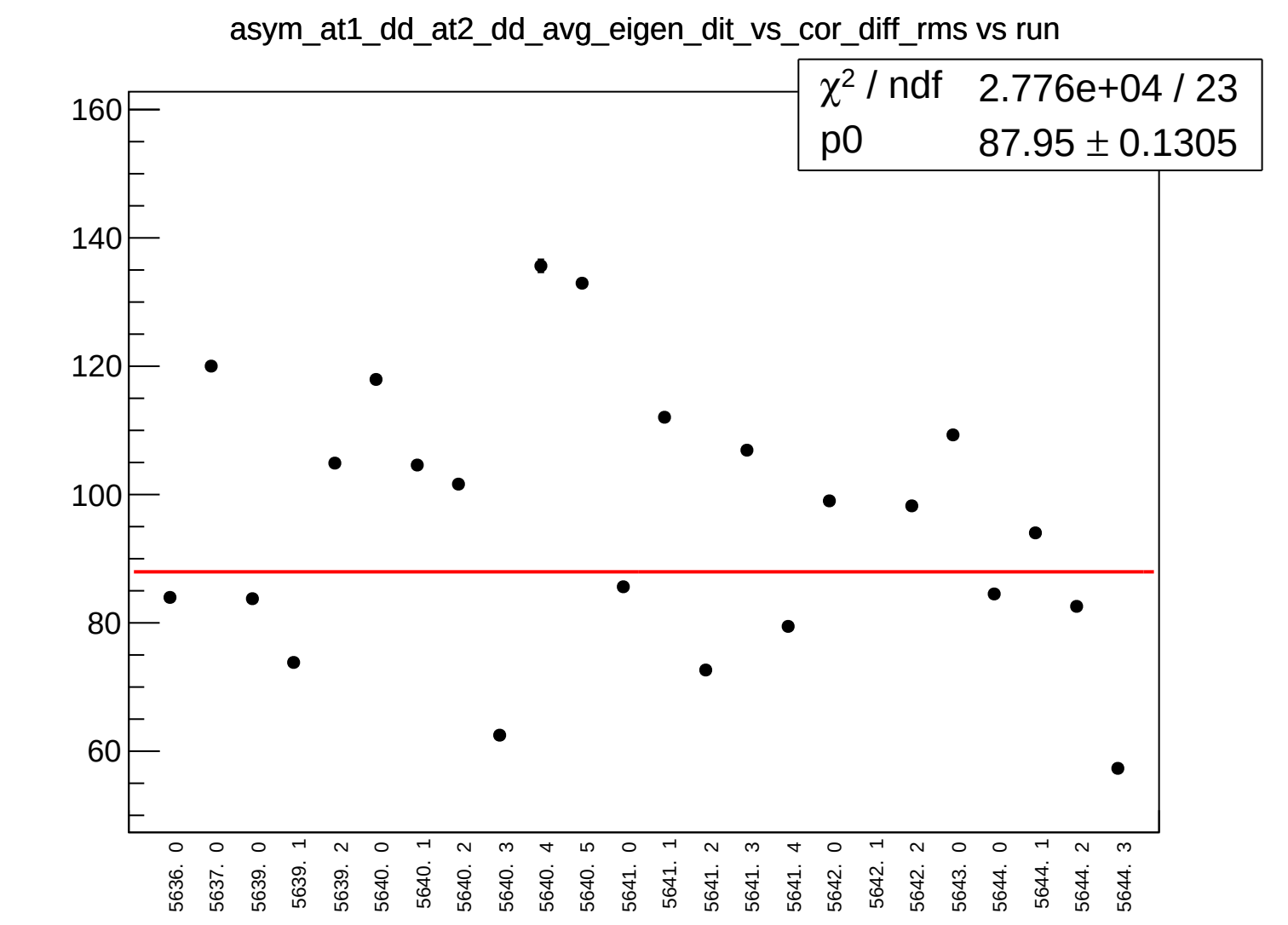

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 16.97 / 23
p0 −0.1723 ± 0.1845
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −94.55
Std Dev 0
pull1D
Entries 24
Mean −0.01307
Std Dev 0.8408

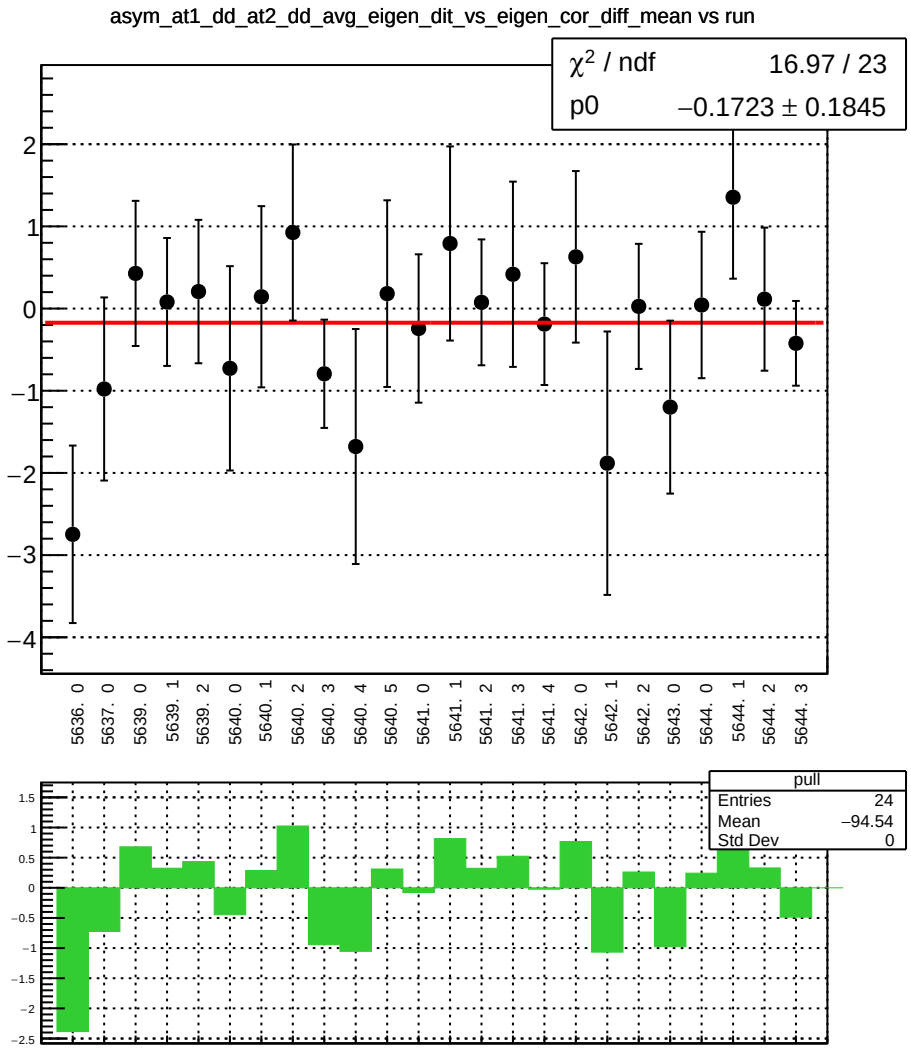

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.776e+04 / 23
p0 87.95 ± 0.1305
160
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

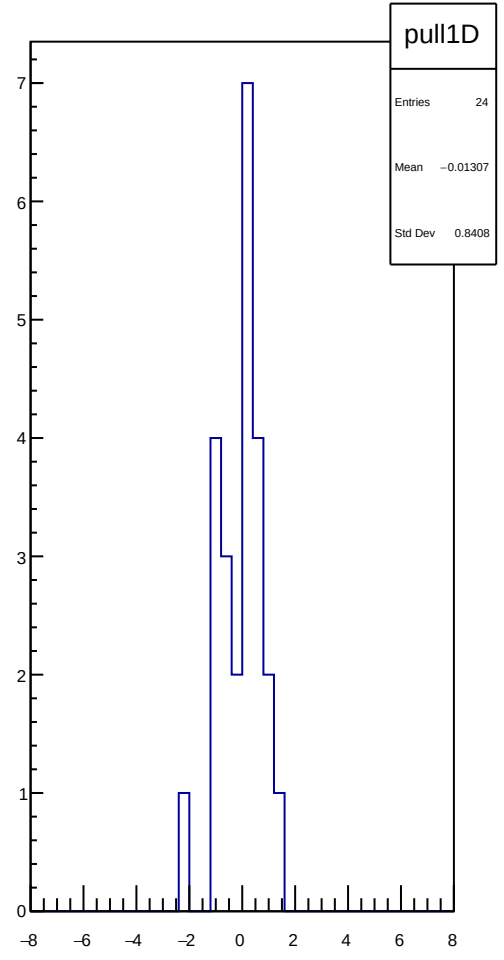

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 25.95 / 23
p0 −5.037e−07 ± 3.378e−06
0.06
0.04
0.02
0
−0.02
−0.04
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 14.43
Std Dev 25.89
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.02969
Std Dev 1.039
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

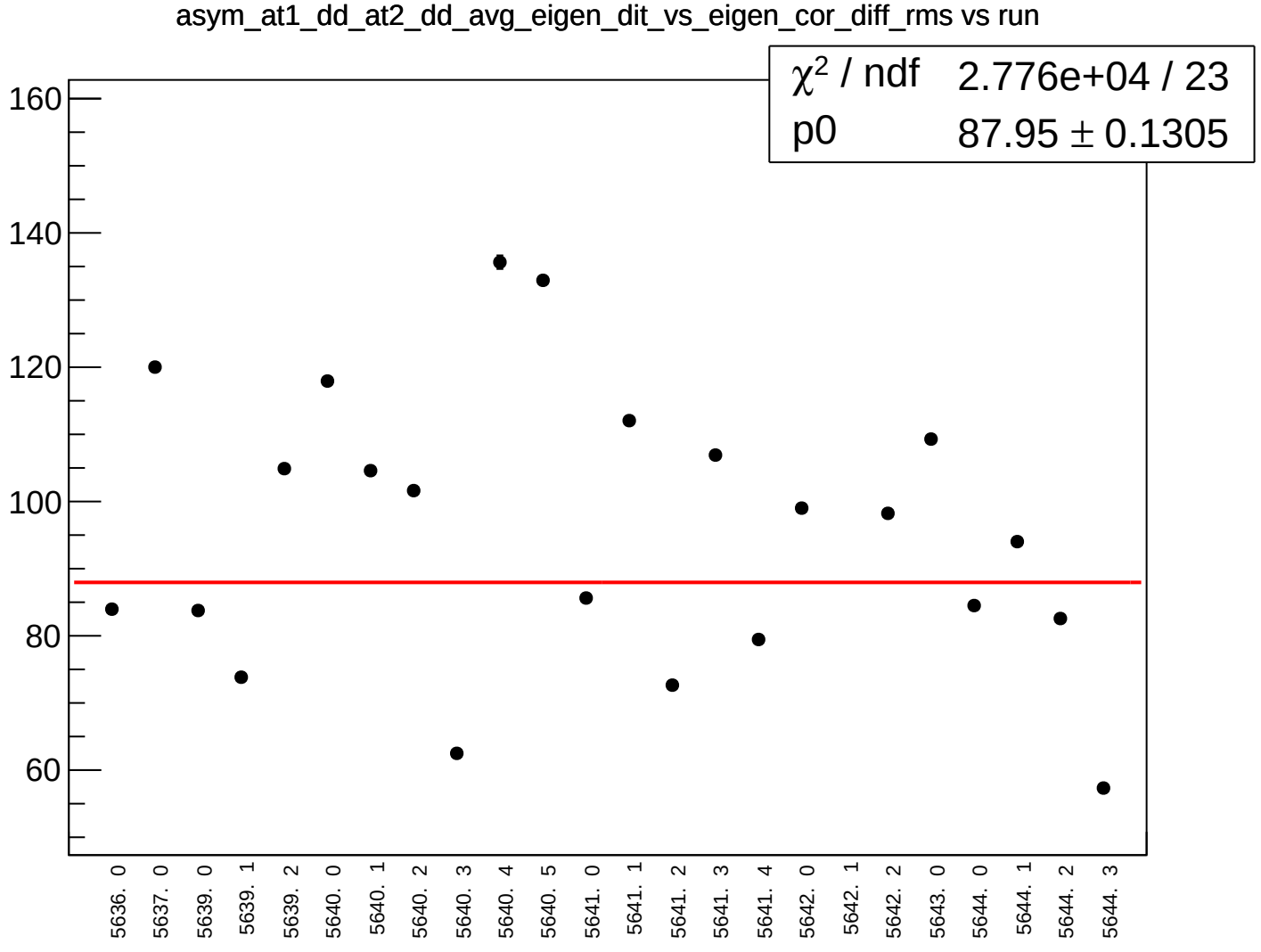

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 834.3 / 23
p0 0.001657 ± 2.388e−06
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

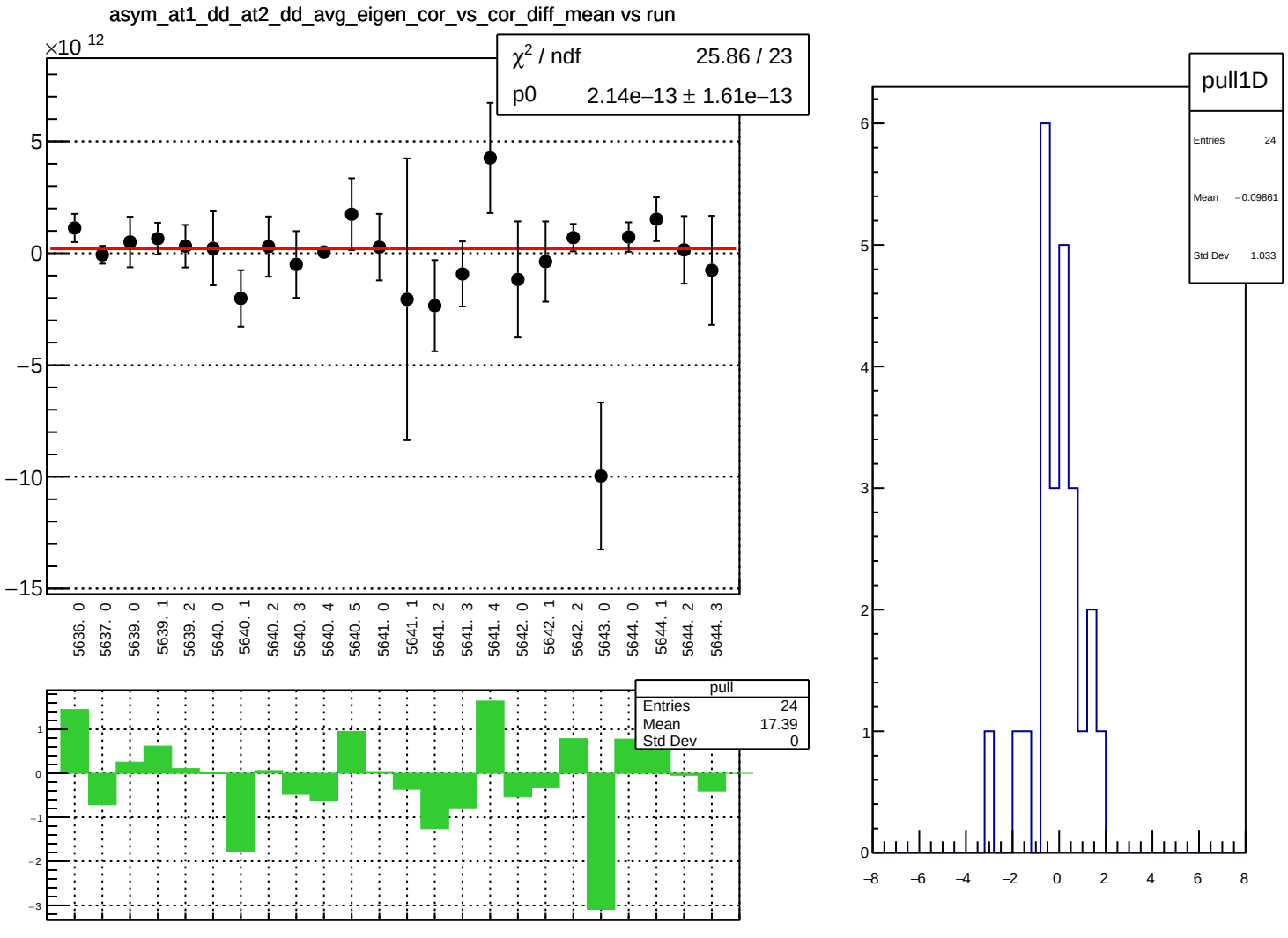

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 16.97 / 23
p0 −0.1723 ± 0.1845
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −94.54
Std Dev 0
pull1D
Entries 24
Mean −0.01307
Std Dev 0.8408

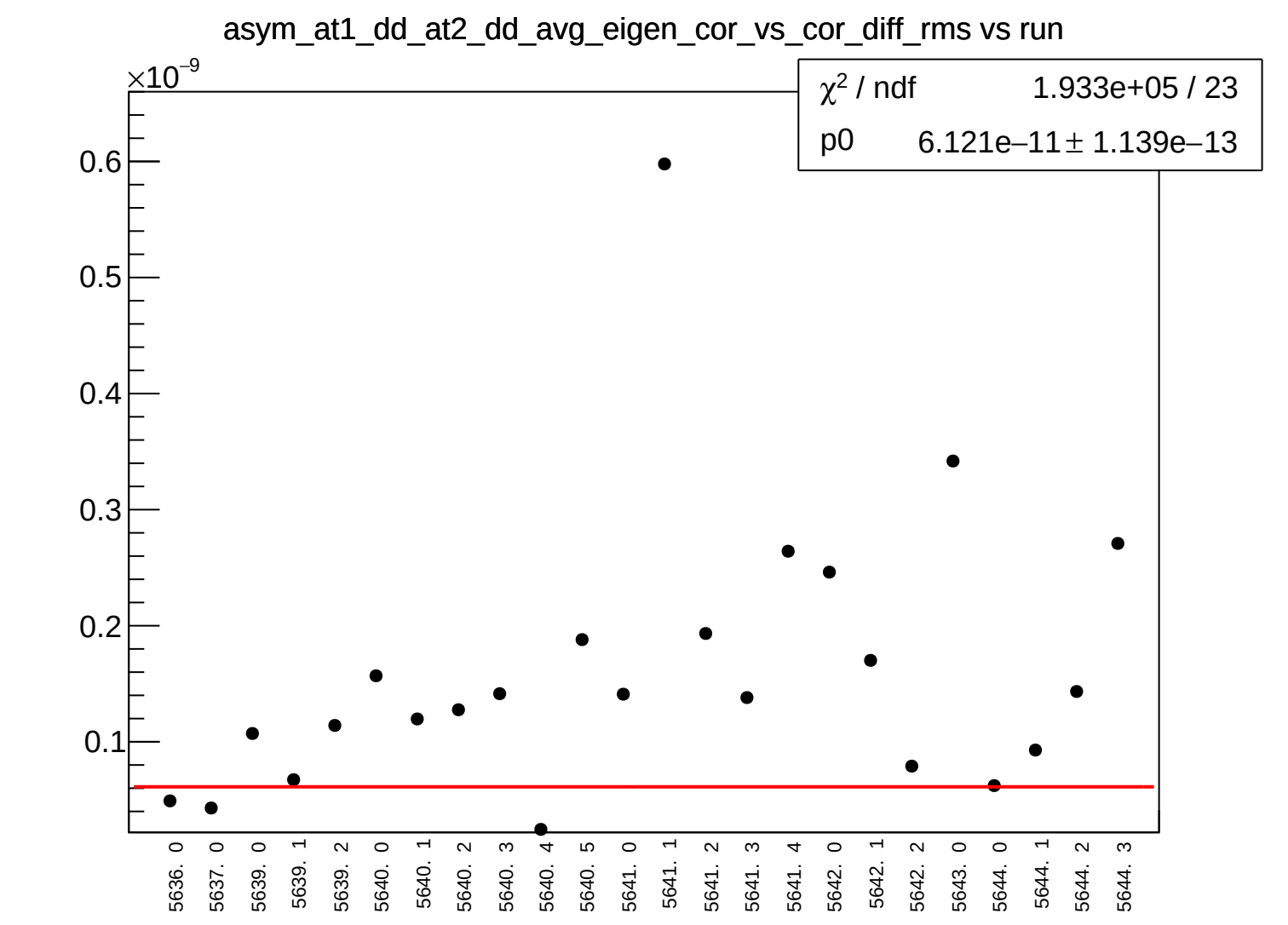

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.776e+04 / 23
p0 87.95 ± 0.1305
160
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

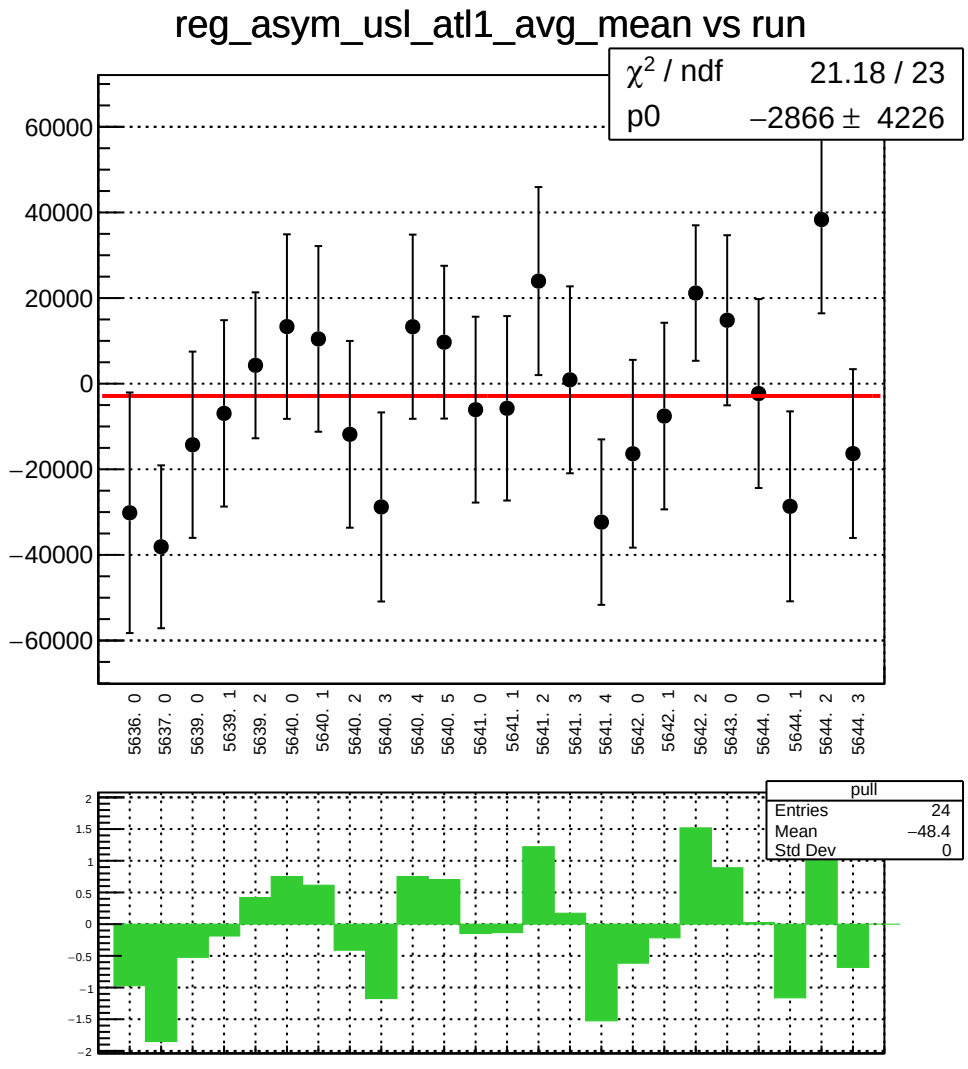

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 16.97 / 23
p0 −0.1723 ± 0.1845
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −94.54
Std Dev 0

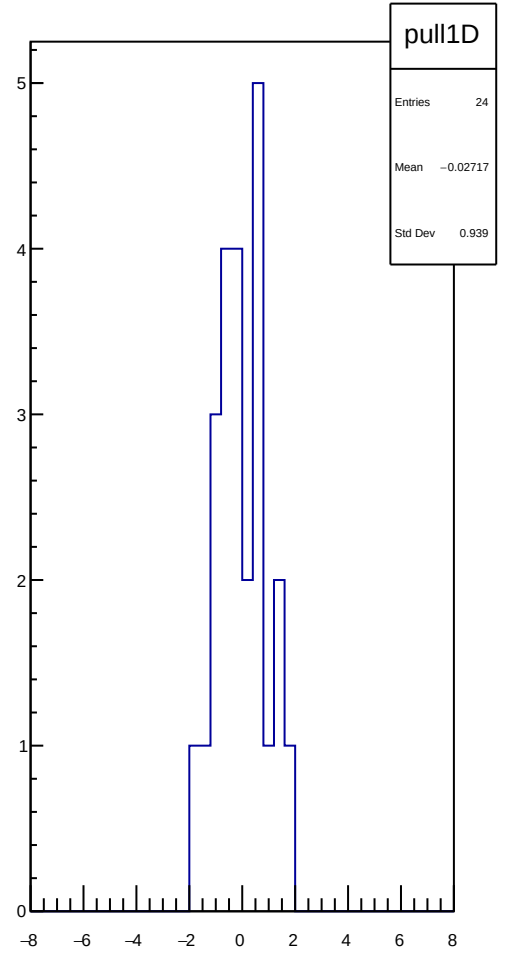

pull1D
Entries 24
Mean −0.01307
Std Dev 0.8408

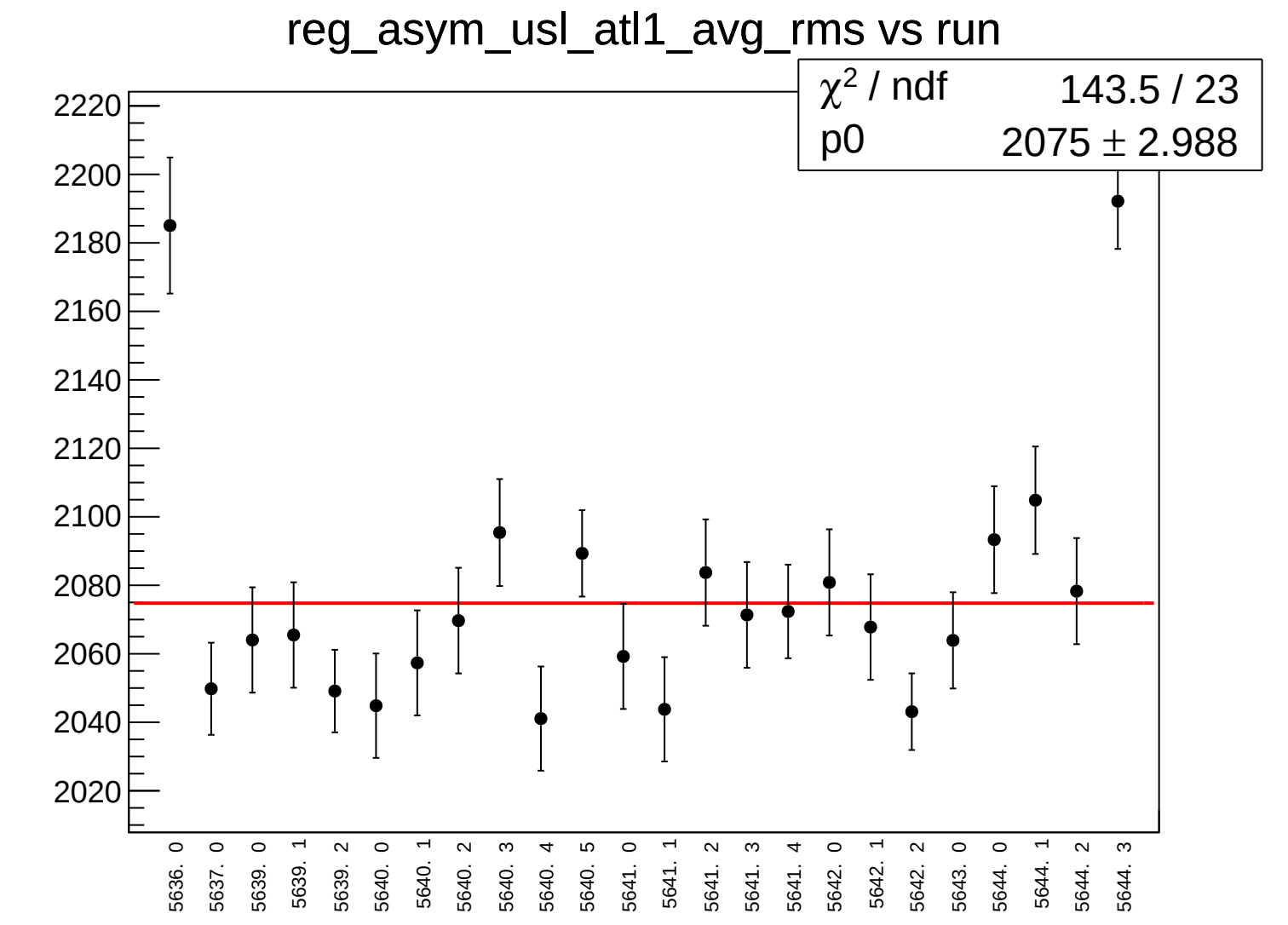

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.776e+04 / 23
p0 87.95 ± 0.1305
160
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

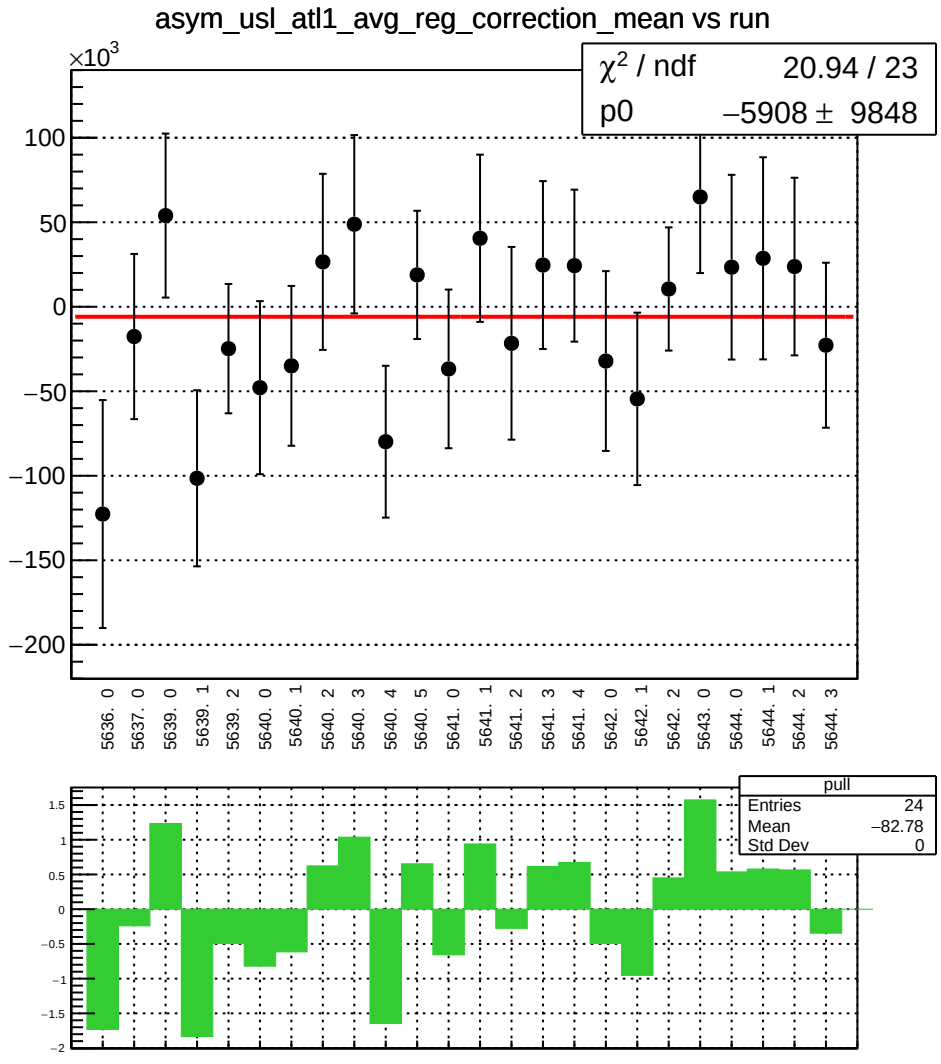

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 25.86 / 23
p0 2.14e−13 ± 1.61e−13
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 17.39
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 24
Mean −0.09861
Std Dev 1.033
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

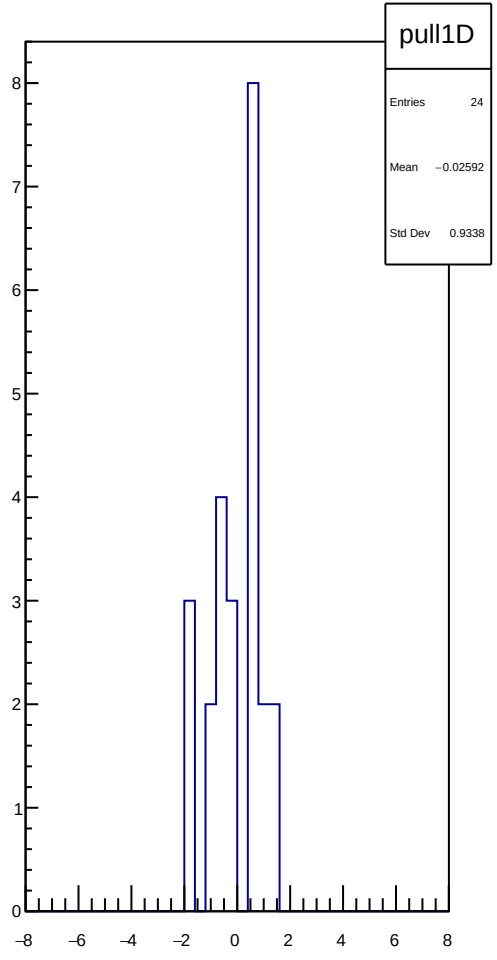

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.933e+05 / 23
p0 6.121e−11 ± 1.139e−13
0.6
0.5
0.4
0.3
0.2
0.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

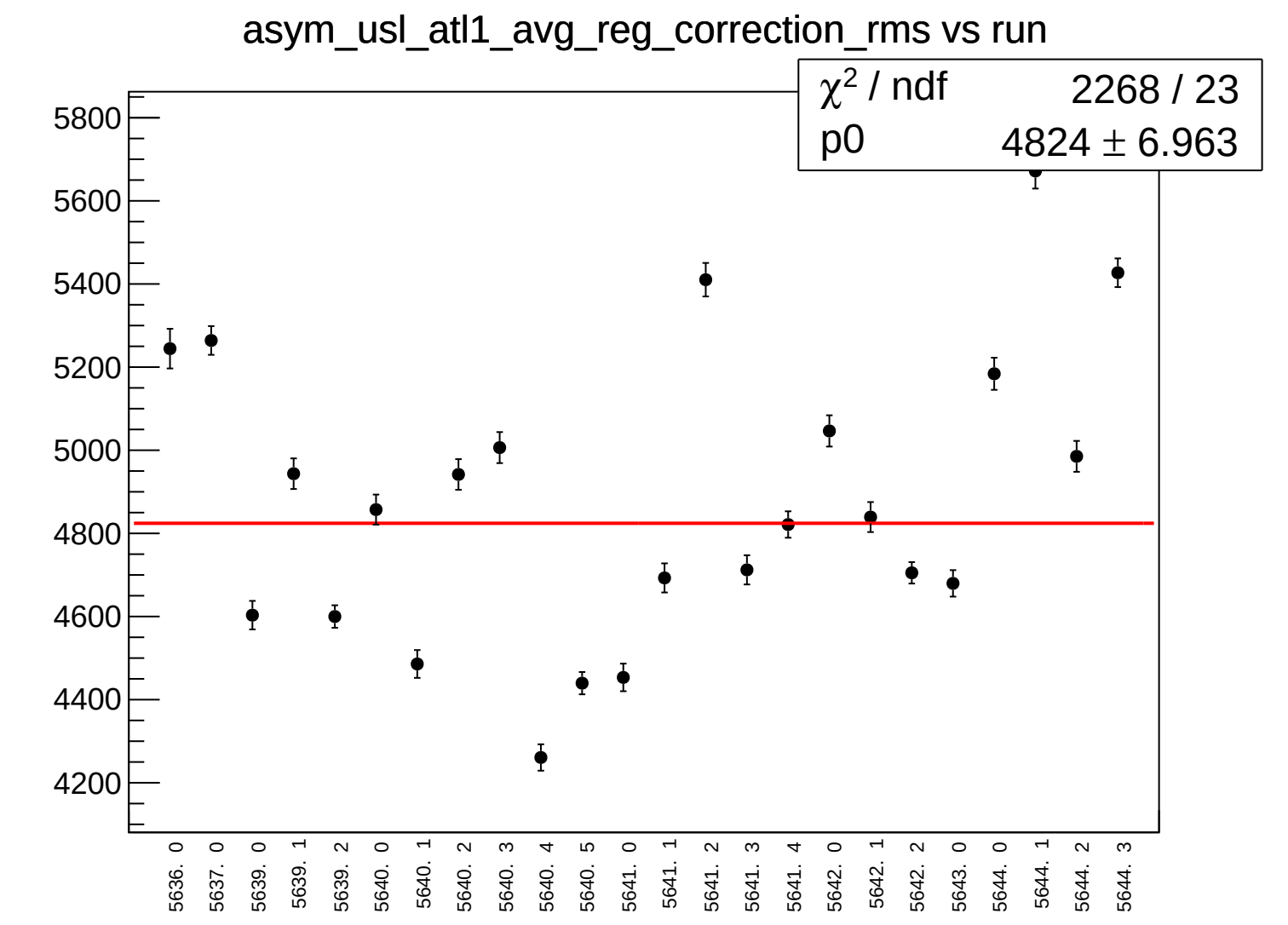

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 21.18 / 23
p0 −2866 ± 4226
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −48.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

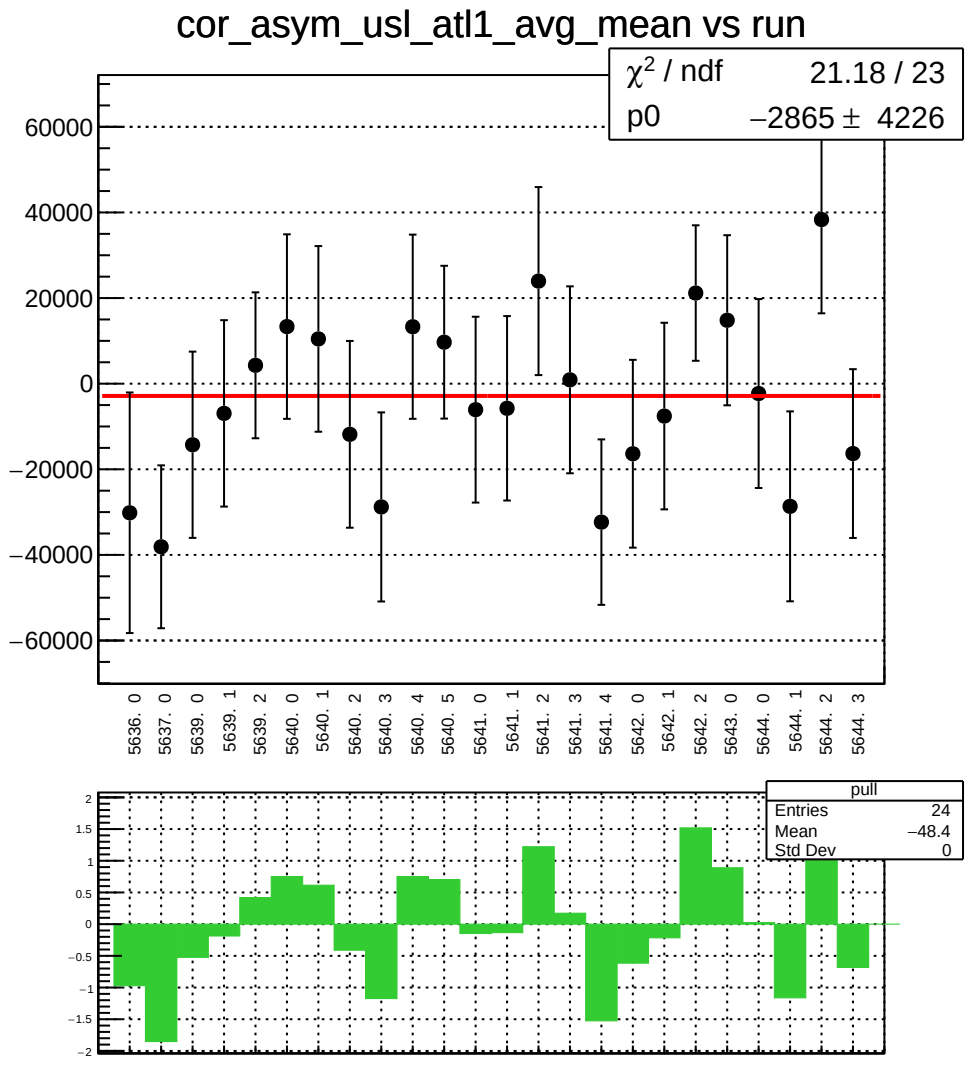

pull1D
Entries 24
Mean −0.02717
Std Dev 0.939
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

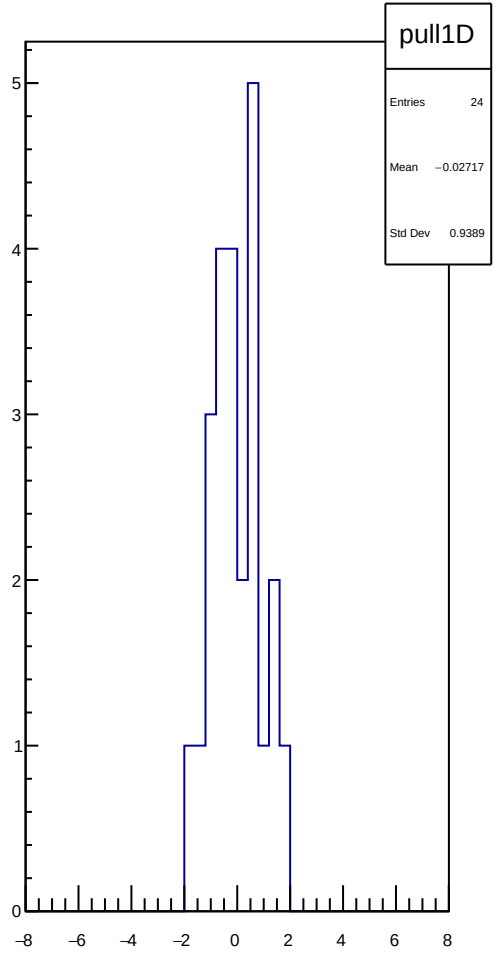

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 143.5 / 23
p0 2075 ± 2.988
2220
2200
2180
2160
2140
2120
2100
2080
2060
2040
2020
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

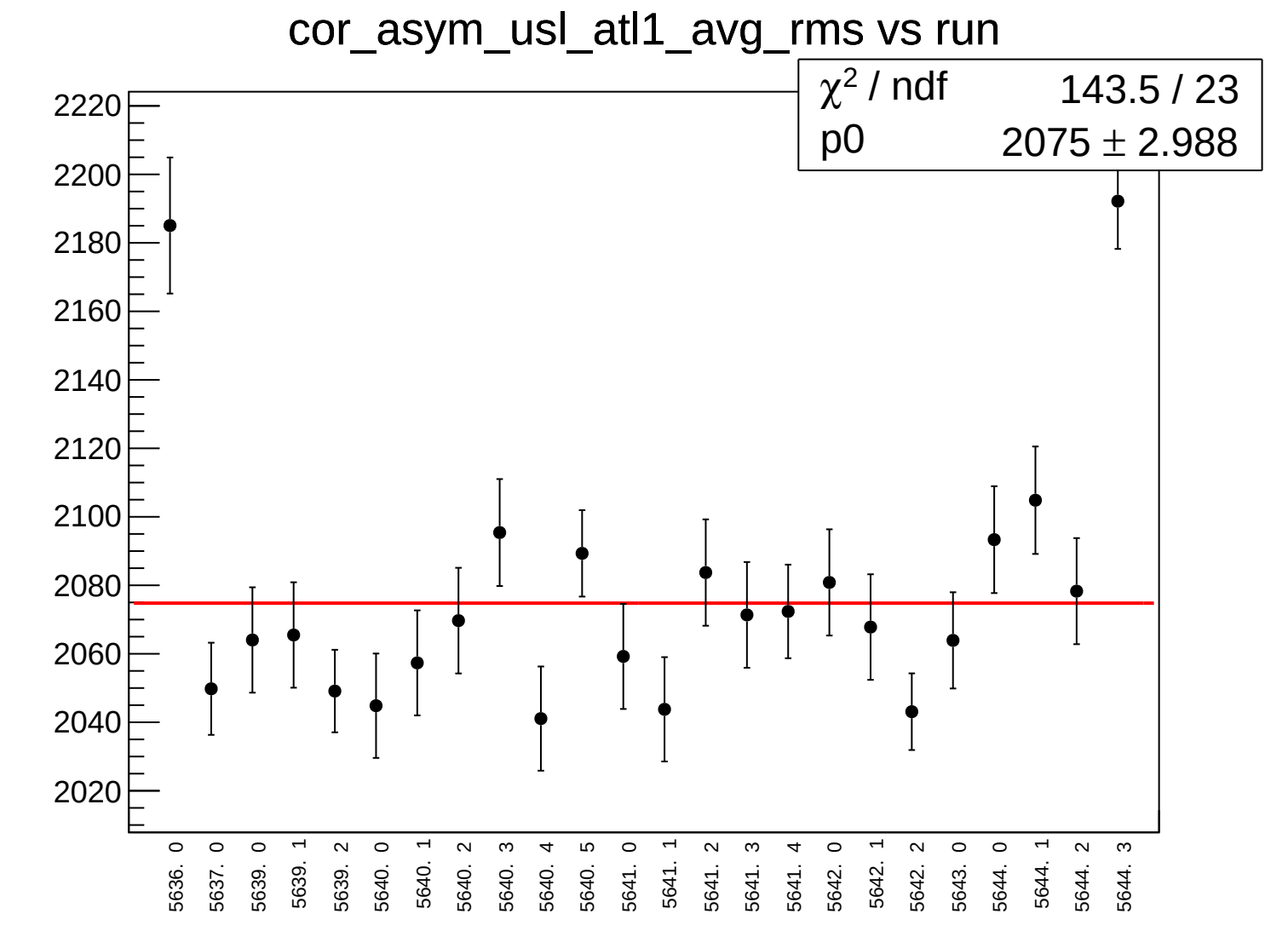

asym_usl_atl1_avg_reg_correction_mean vs run
×10^3
χ² / ndf 20.94 / 23
p0 −5908 ± 9848
100
50
0
−50
−100
−150
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −82.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.02592
Std Dev 0.9338
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 2268 / 23
p0 4824 ± 6.963
5800
5600
5400
5200
5000
4800
4600
4400
4200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 21.18 / 23
p0 −2865 ± 4226
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −48.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.02717
Std Dev 0.9389
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 143.5 / 23
p0 2075 ± 2.988
2220
2200
2180
2160
2140
2120
2100
2080
2060
2040
2020
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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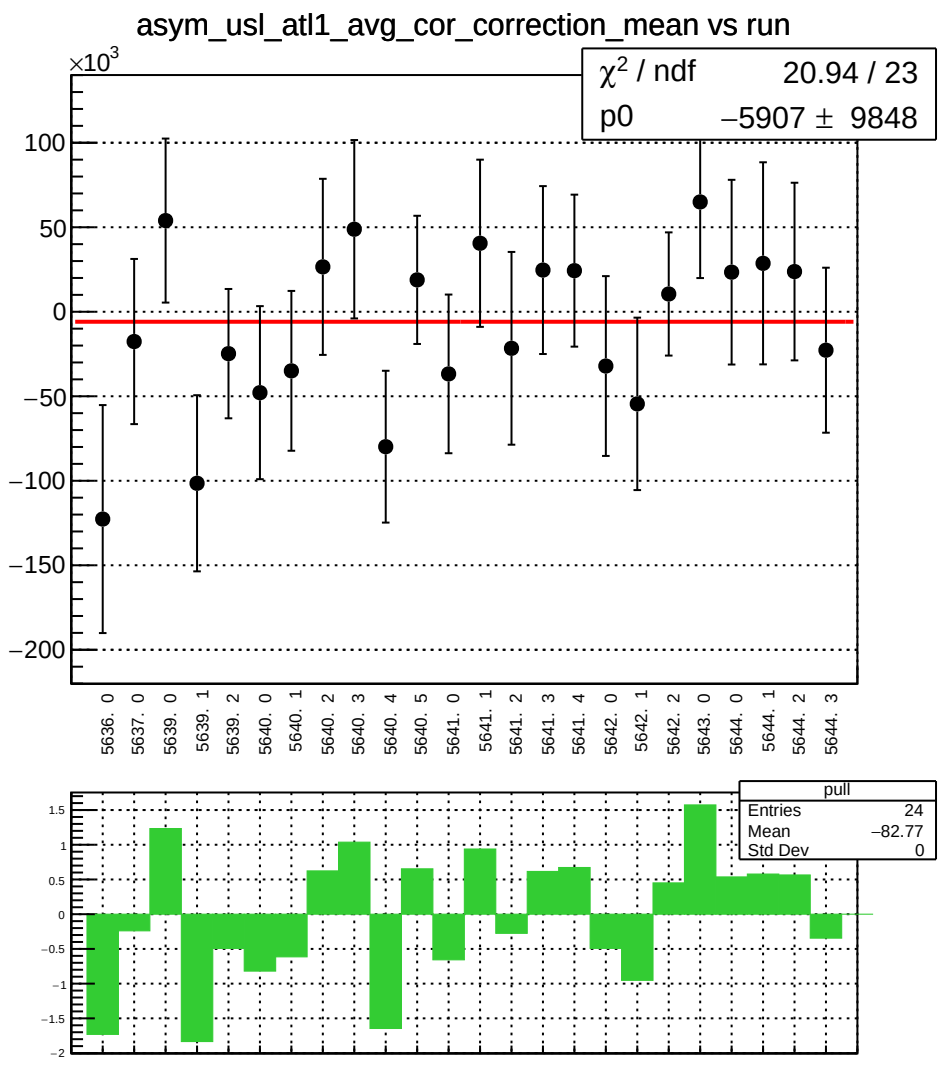
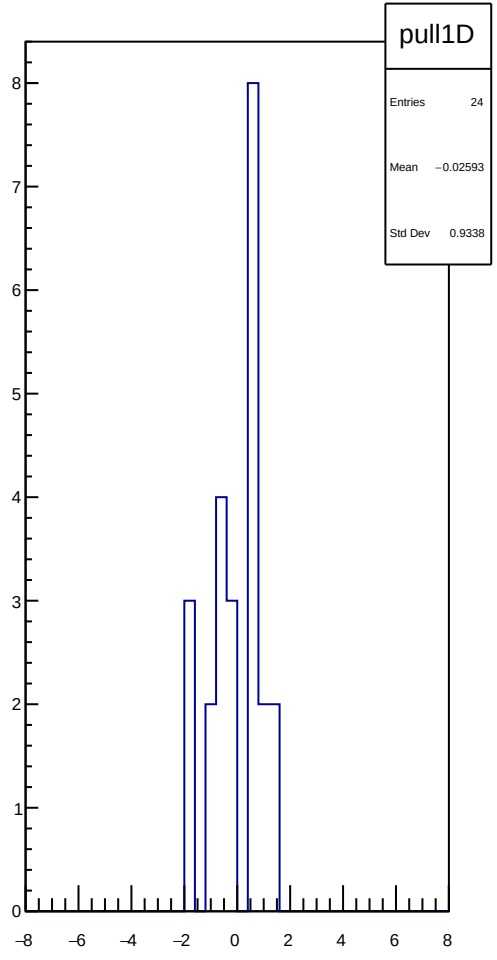
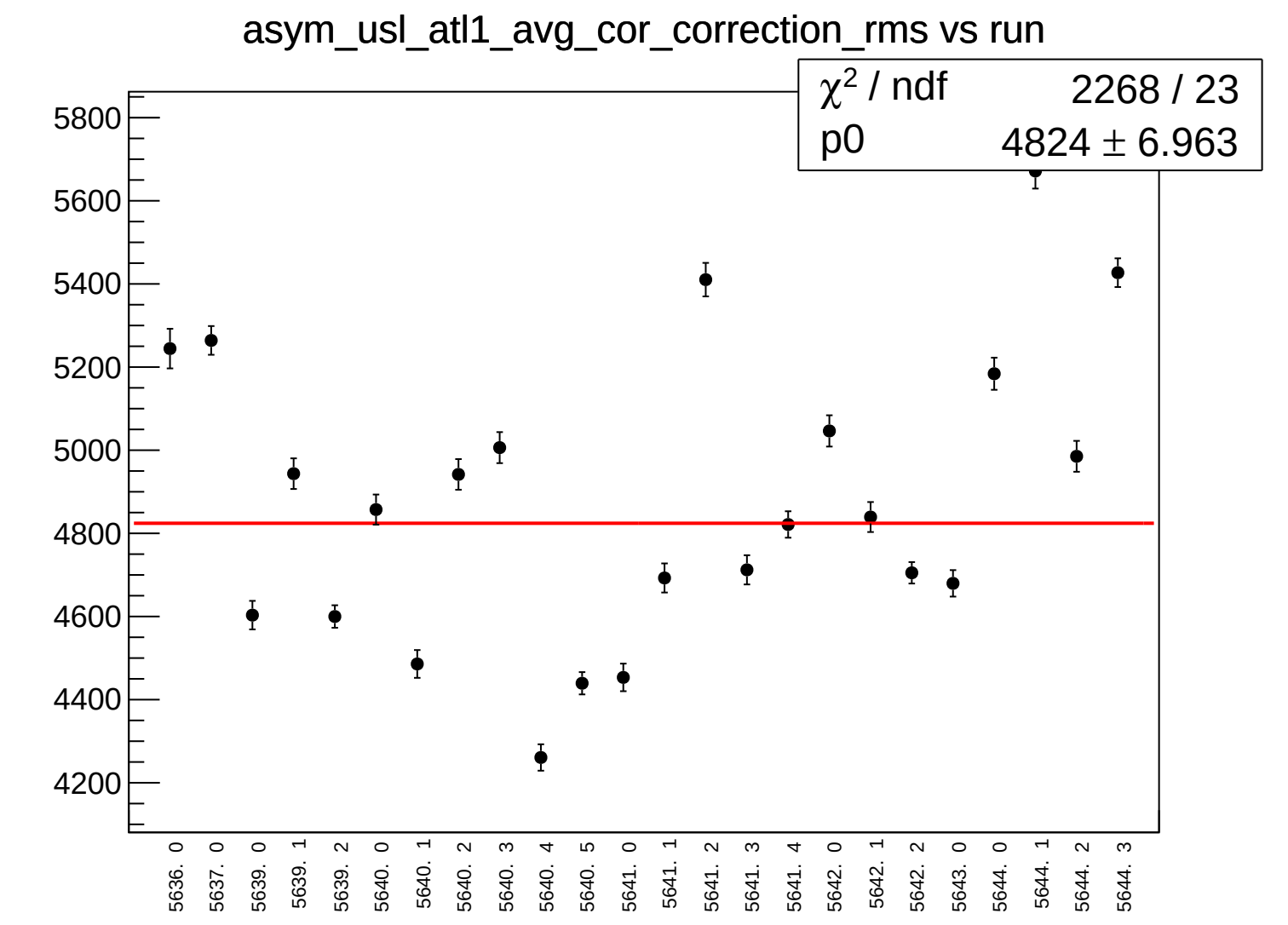
5644. 2
5644. 3


asym_usl_atl1_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 20.94 / 23
p0 −5907 ± 9848
100
50
0
−50
−100
−150
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −82.77
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.02593
Std Dev 0.9338
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 2268 / 23
p0 4824 ± 6.963
5800
5600
5400
5200
5000
4800
4600
4400
4200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5644. 0
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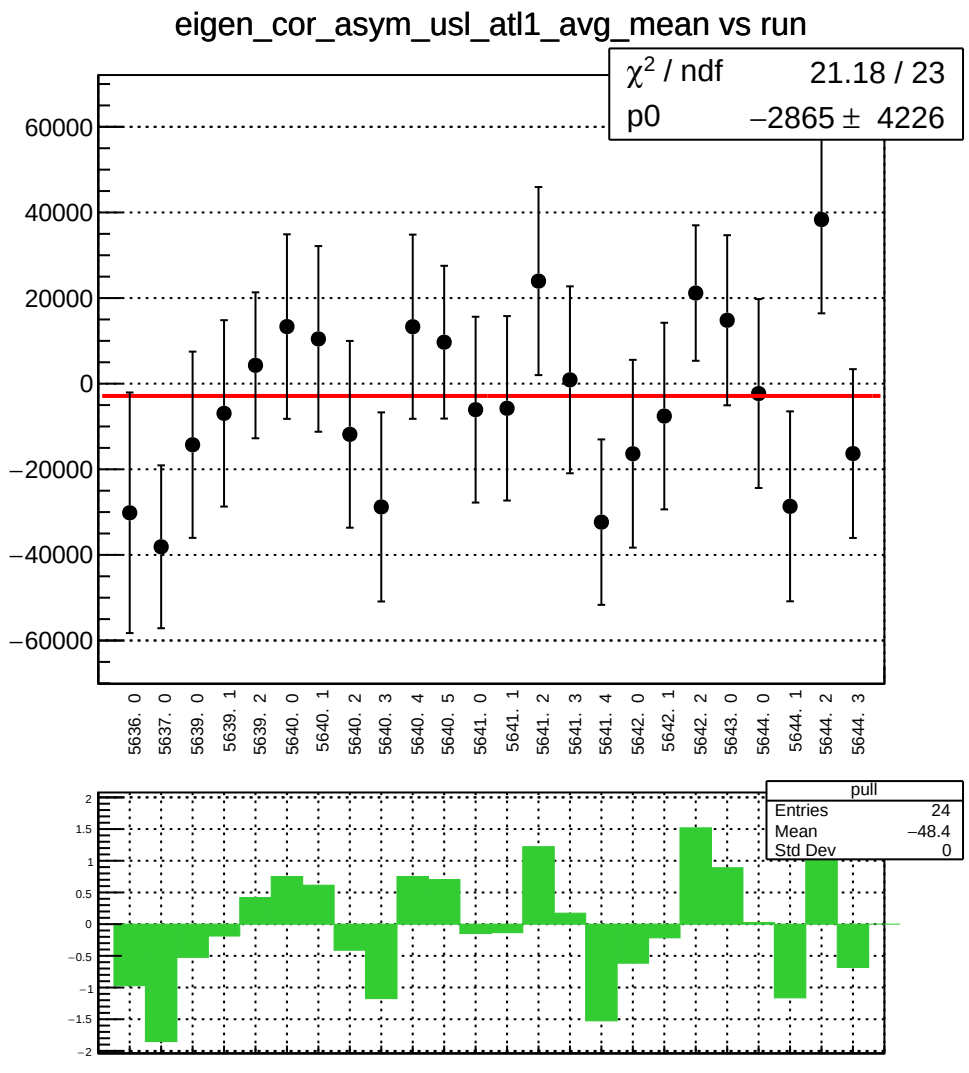
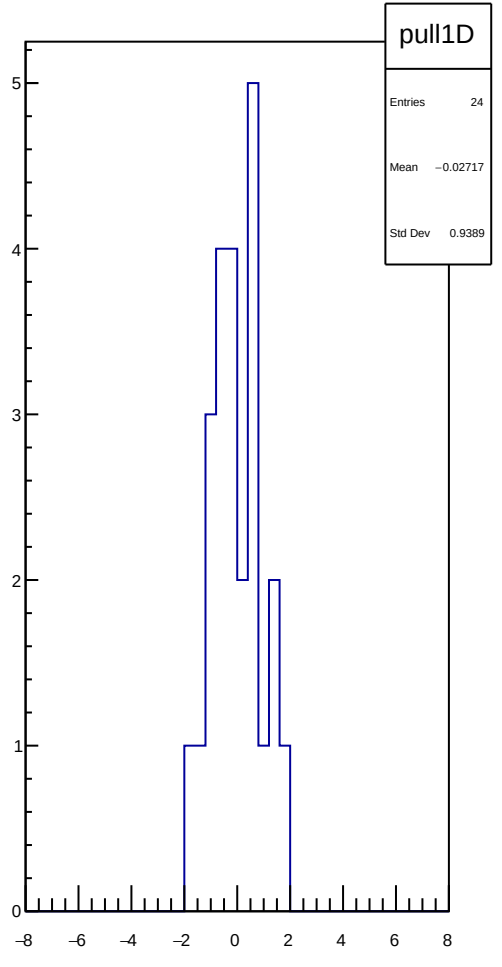
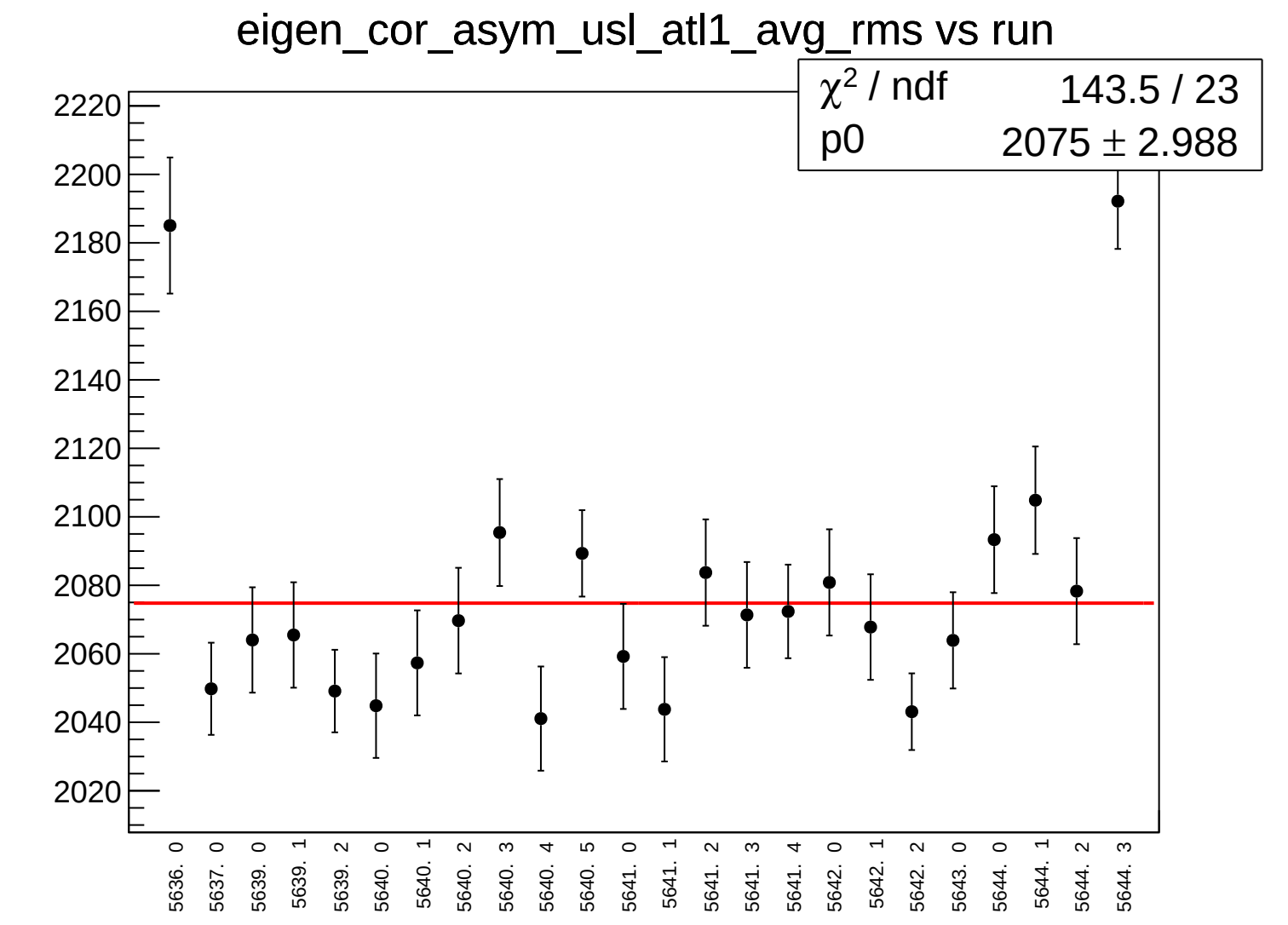
5644. 2
5644. 3


eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 21.18 / 23
p0 −2865 ± 4226
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −48.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.02717
Std Dev 0.9389
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 143.5 / 23
p0 2075 ± 2.988
2220
2200
2180
2160
2140
2120
2100
2080
2060
2040
2020
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5642. 0
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5643. 0
5644. 0
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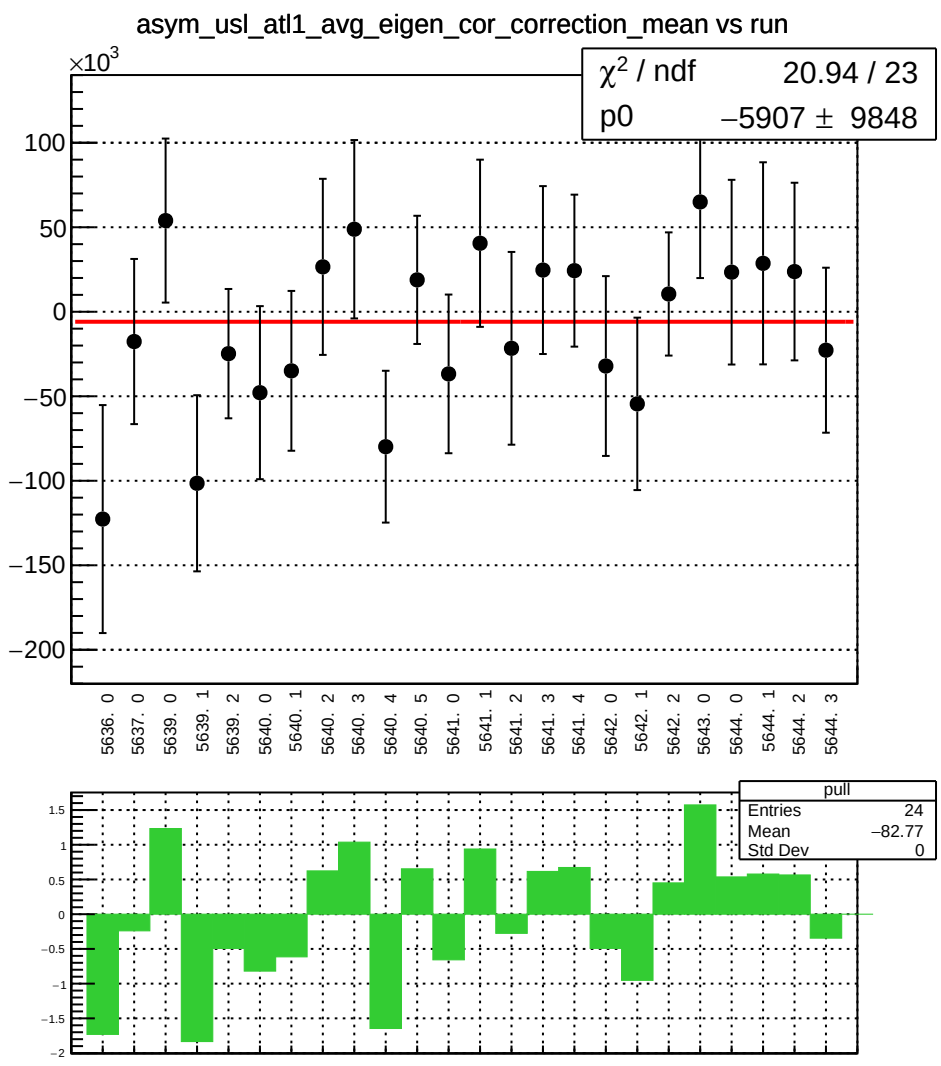
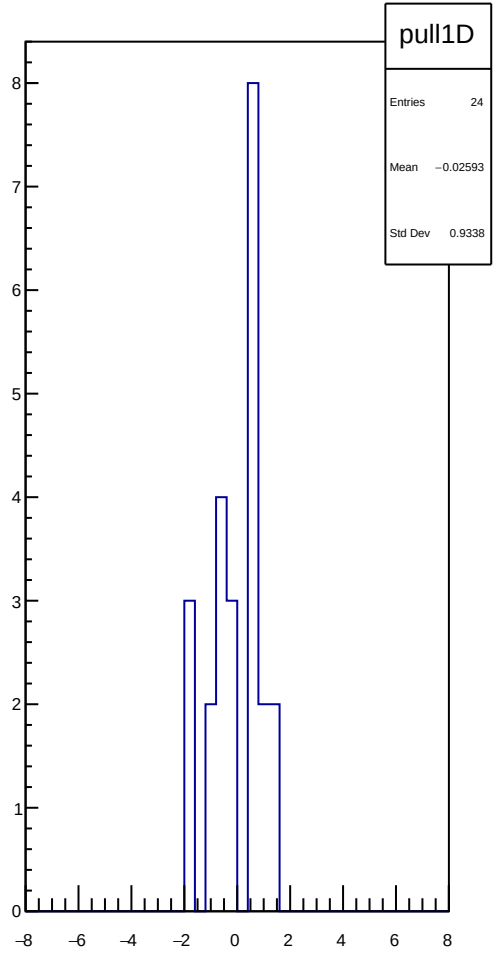
5644. 2
5644. 3


asym_usl_atl1_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 20.94 / 23
p0 −5907 ± 9848
100
50
0
−50
−100
−150
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −82.77
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.02593
Std Dev 0.9338
8
7
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5
4
3
2
1
0
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−4
−2
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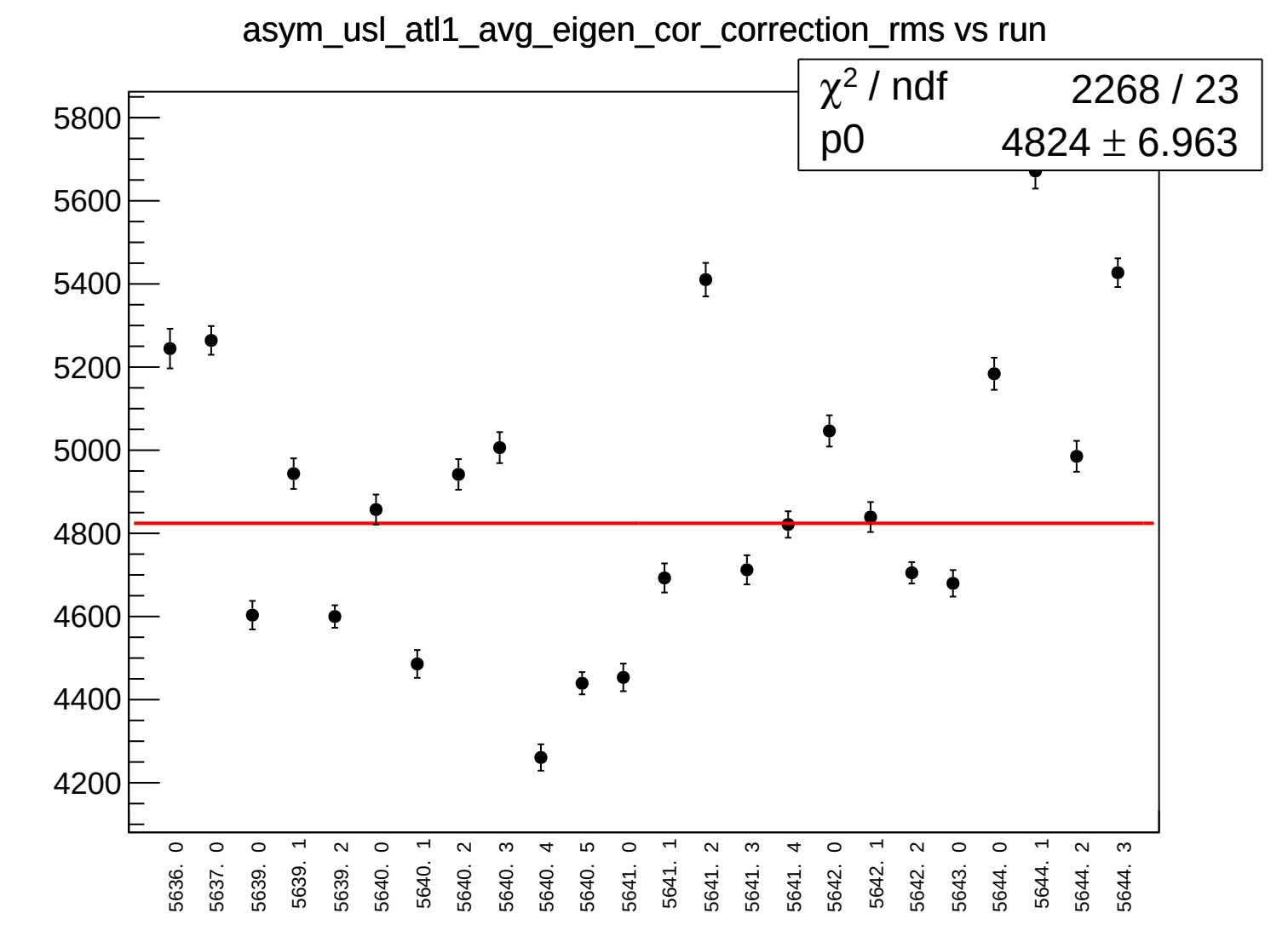
2
4
6
8


asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 2268 / 23
p0 4824 ± 6.963
5800
5600
5400
5200
5000
4800
4600
4400
4200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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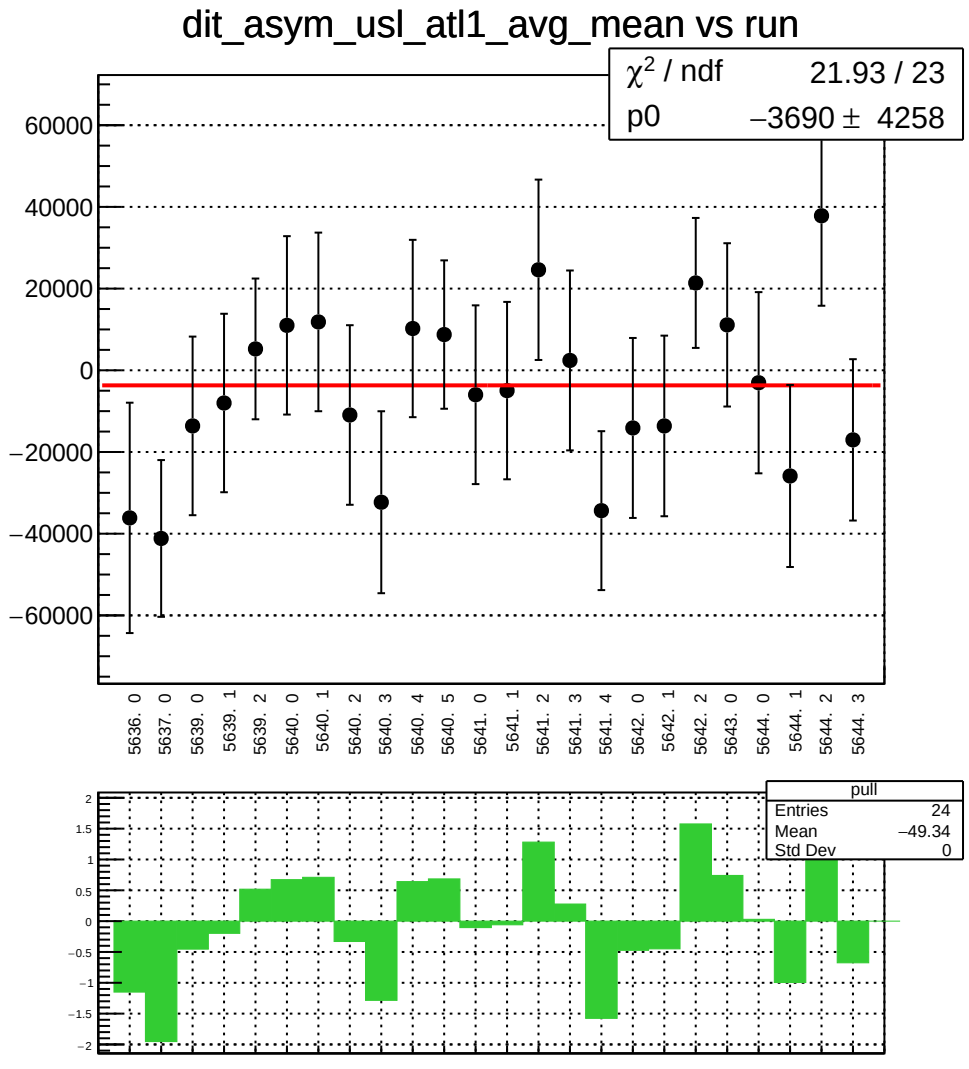
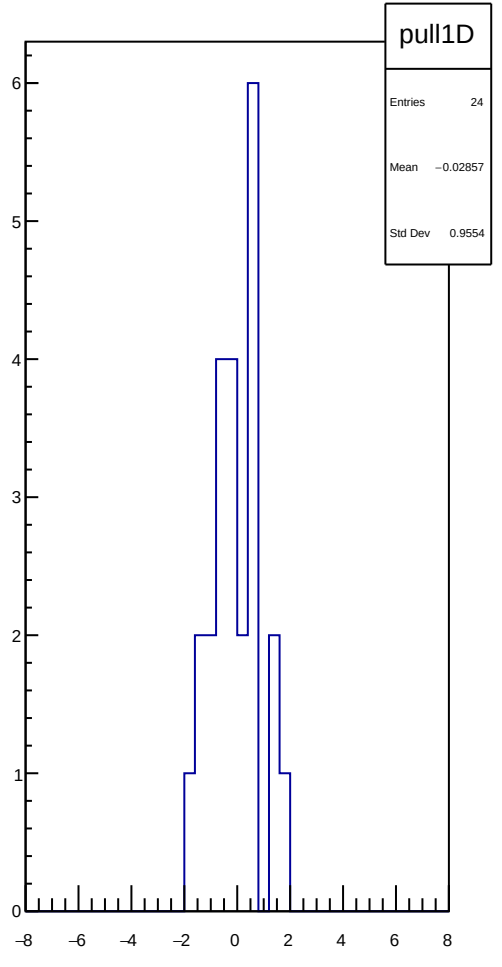
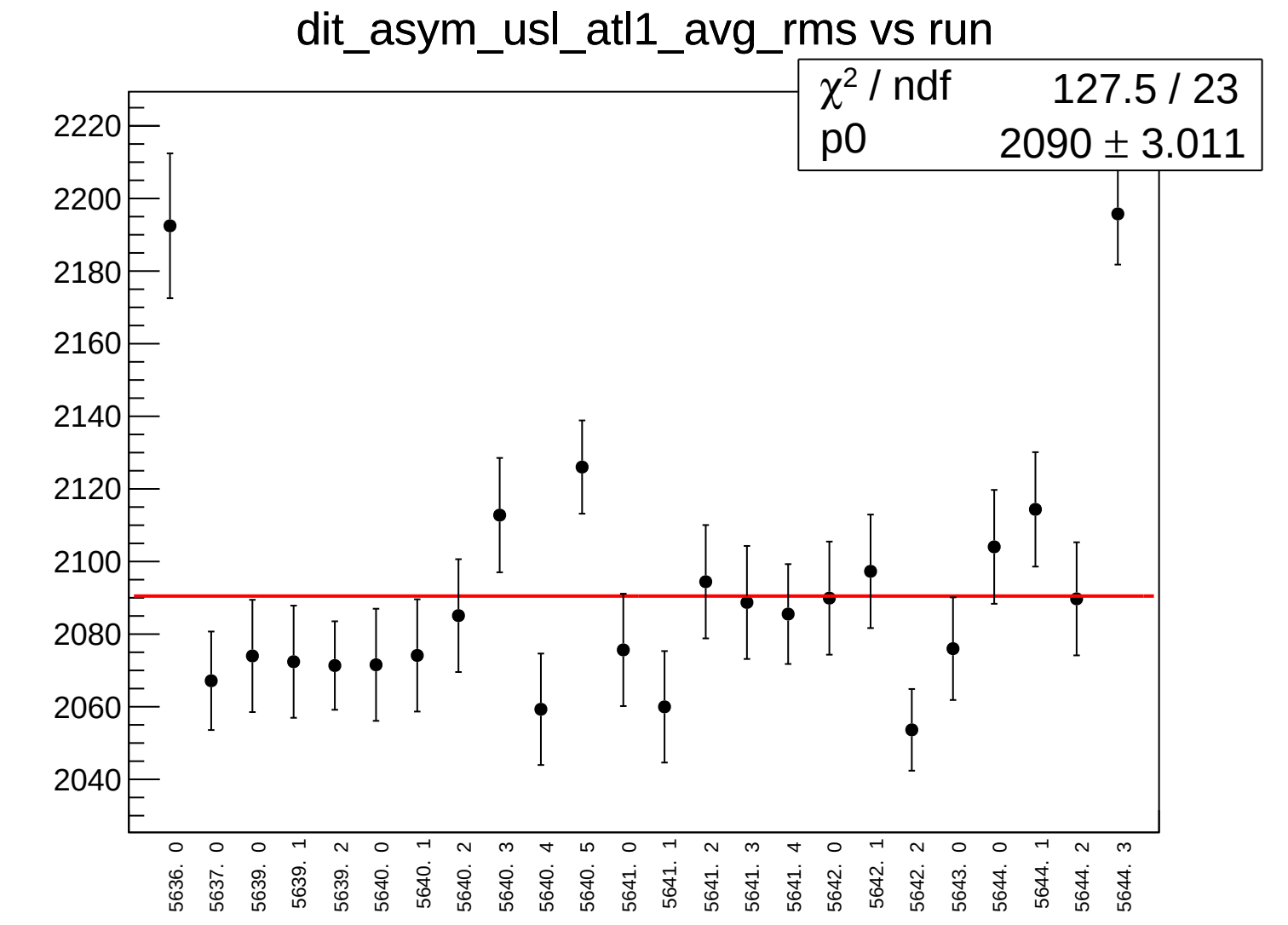
5644. 2
5644. 3


dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 21.93 / 23
p0 −3690 ± 4258
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −49.34
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.02857
Std Dev 0.9554
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 127.5 / 23
p0 2090 ± 3.011
2220
2200
2180
2160
2140
2120
2100
2080
2060
2040
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5642. 0
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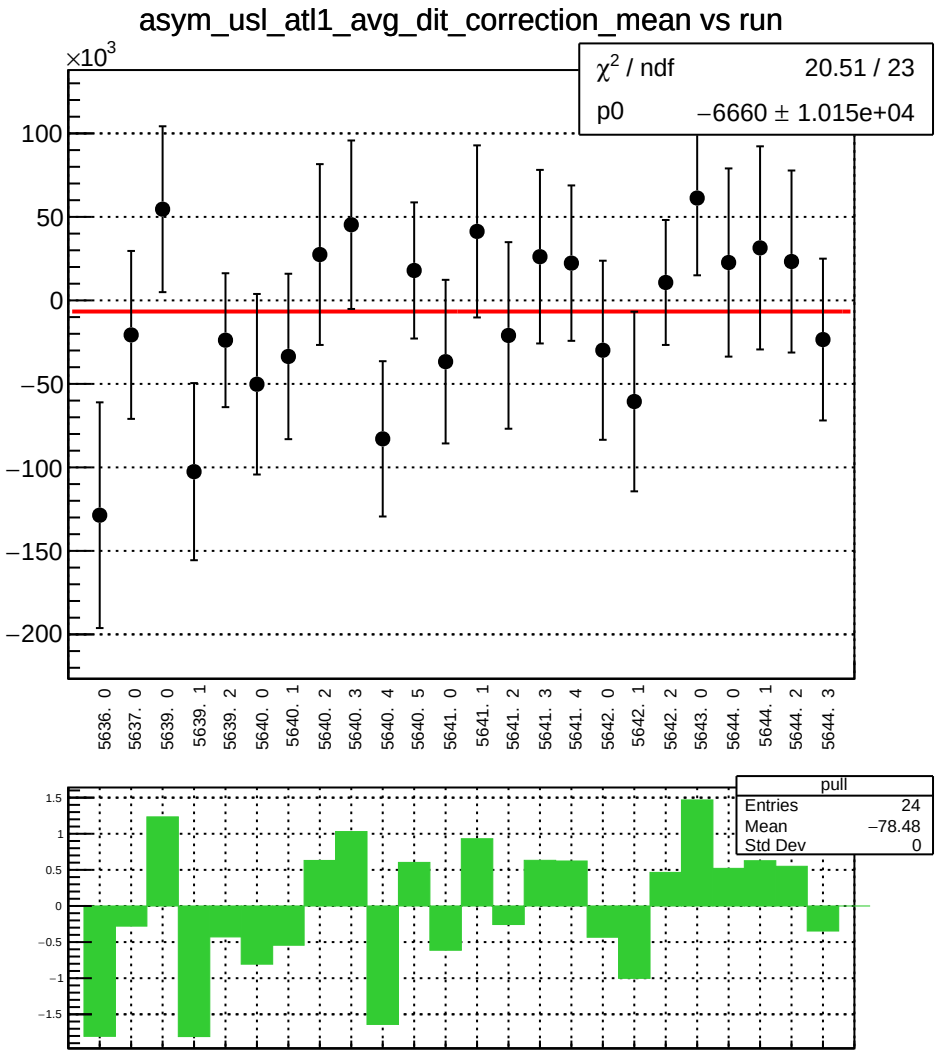
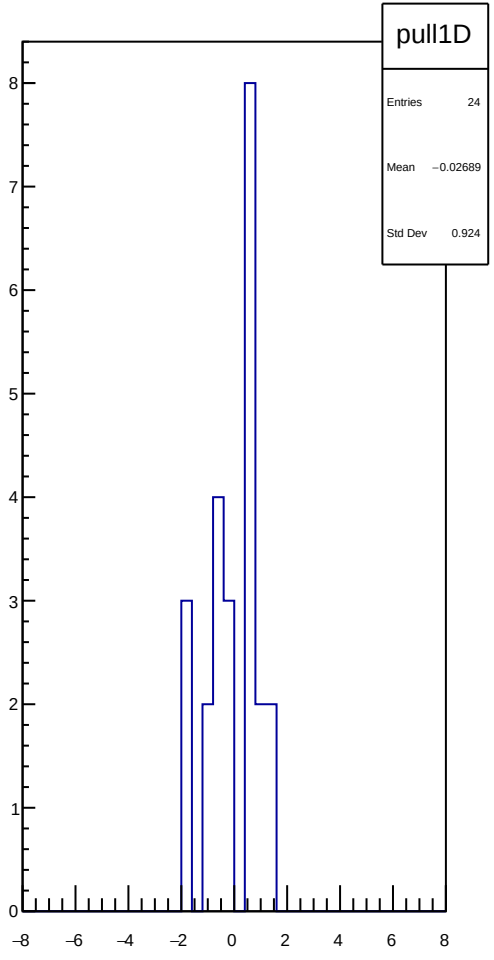
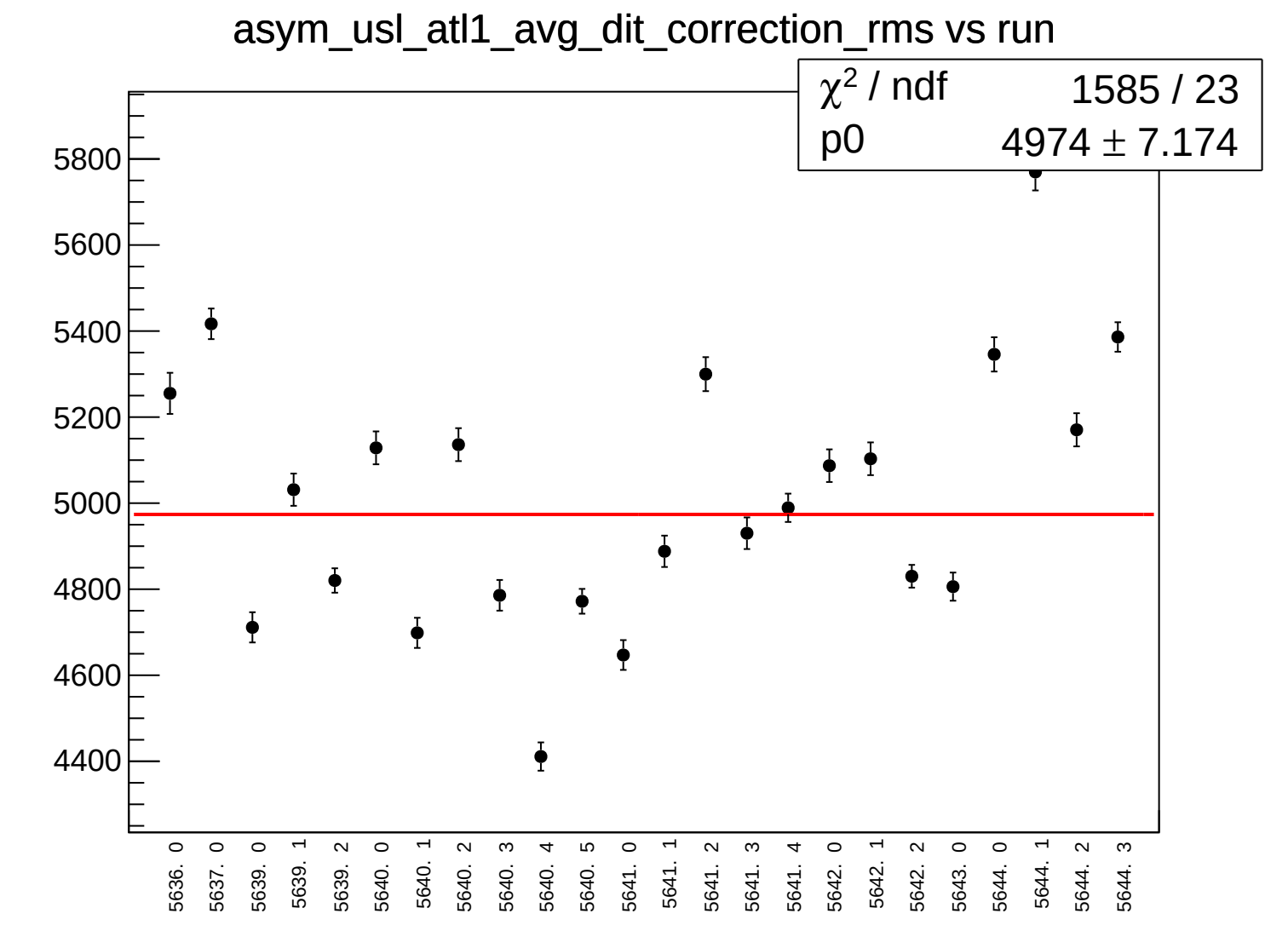
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_usl_atl1_avg_dit_correction_mean vs run
×10^3
χ² / ndf 20.51 / 23
p0 −6660 ± 1.015e+04
100
50
0
−50
−100
−150
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −78.48
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean −0.02689
Std Dev 0.924
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 1585 / 23
p0 4974 ± 7.174
5800
5600
5400
5200
5000
4800
4600
4400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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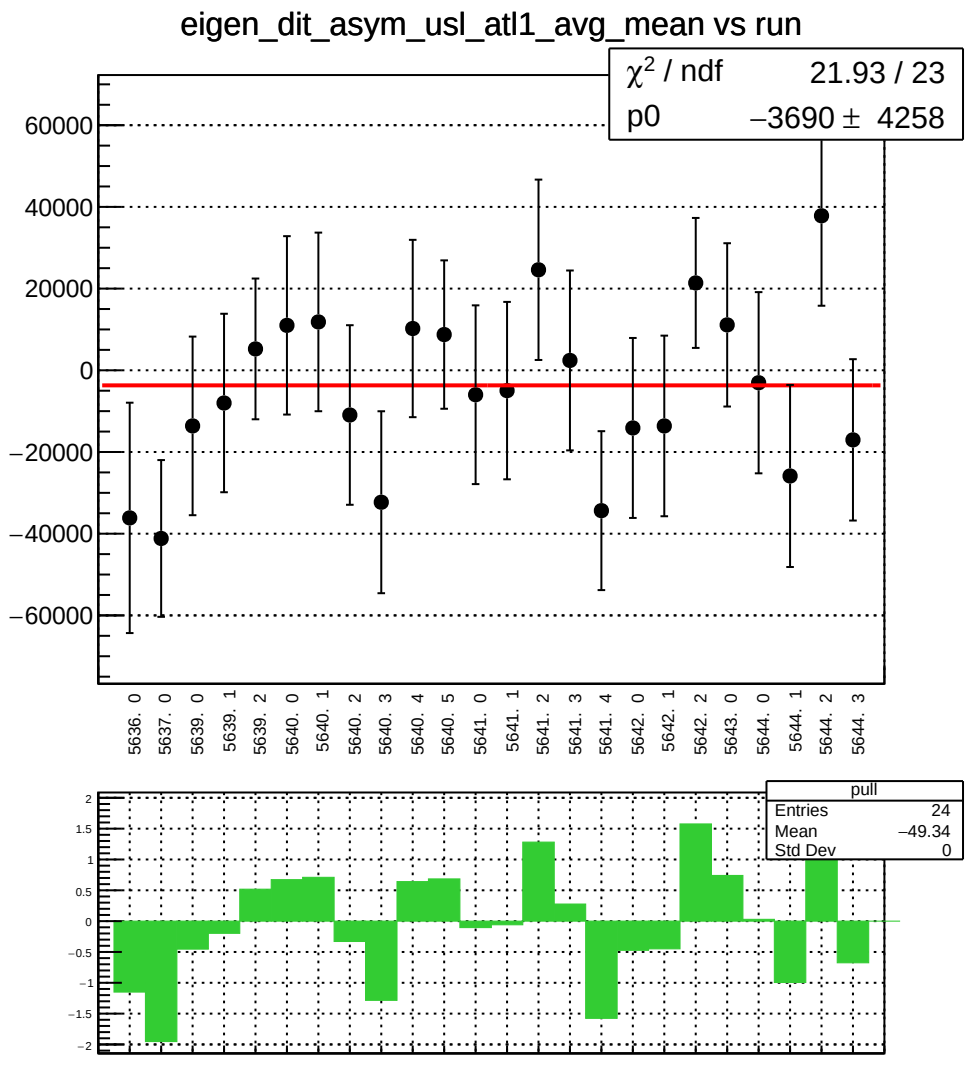
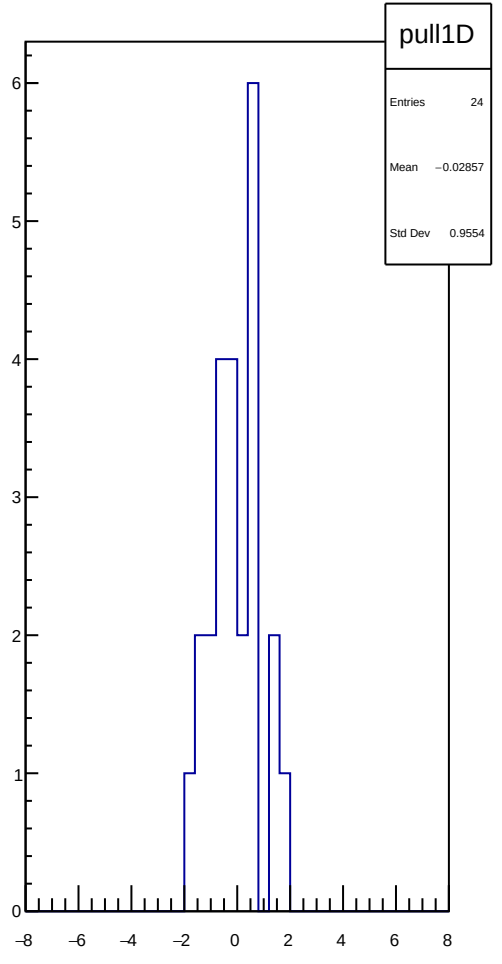
5644. 3


eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 21.93 / 23
p0 −3690 ± 4258
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −49.34
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.02857
Std Dev 0.9554
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5
4
3
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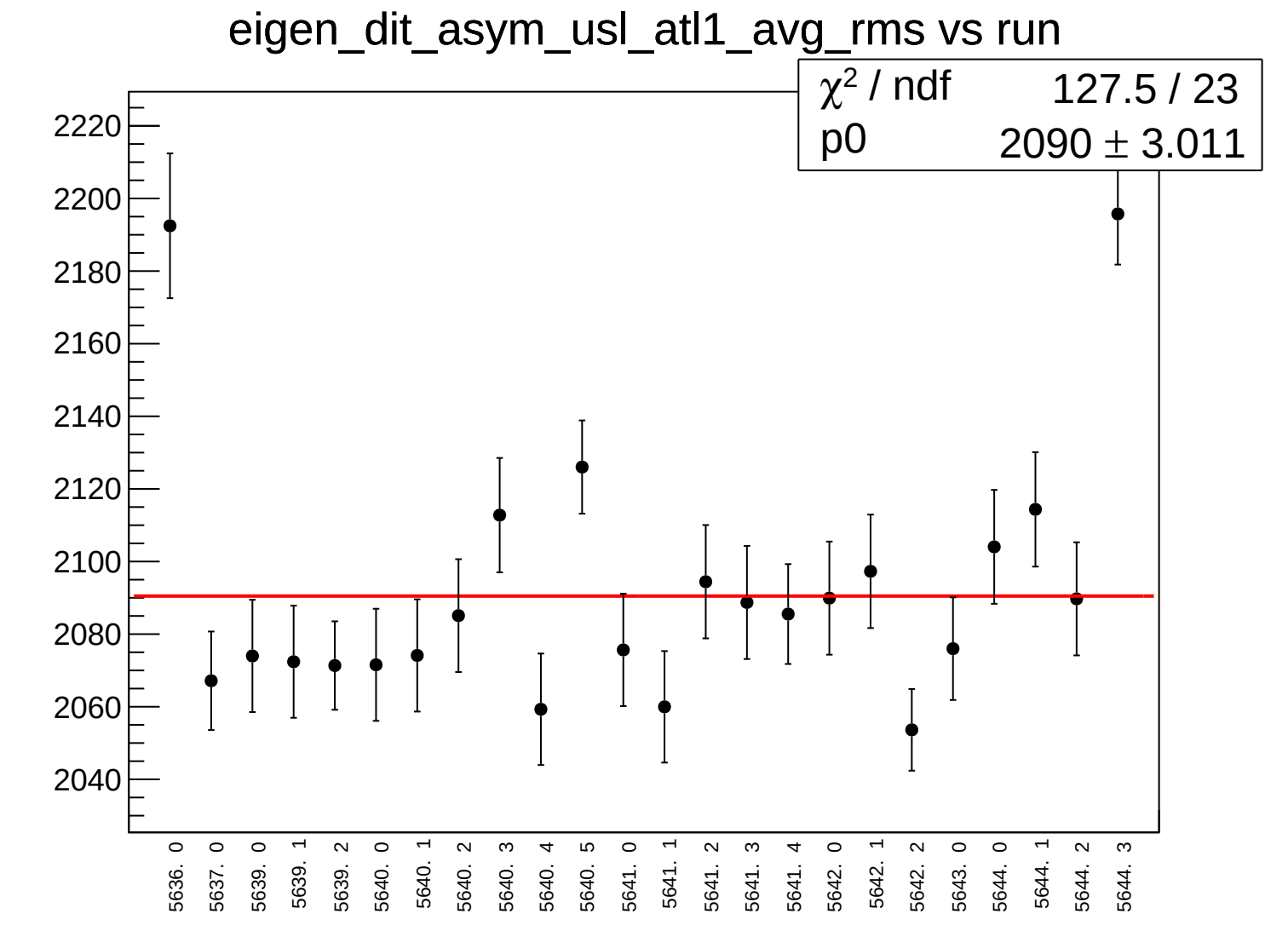
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 127.5 / 23
p0 2090 ± 3.011
2220
2200
2180
2160
2140
2120
2100
2080
2060
2040
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5644. 0
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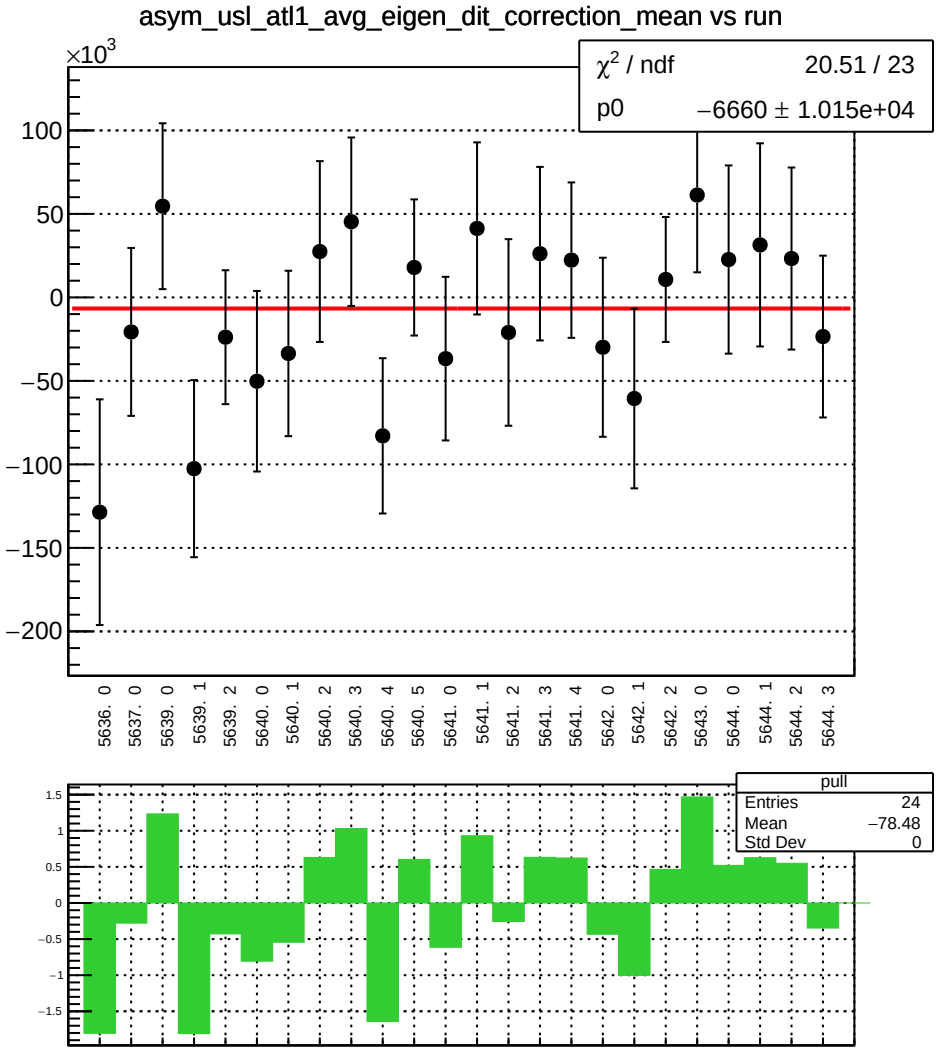
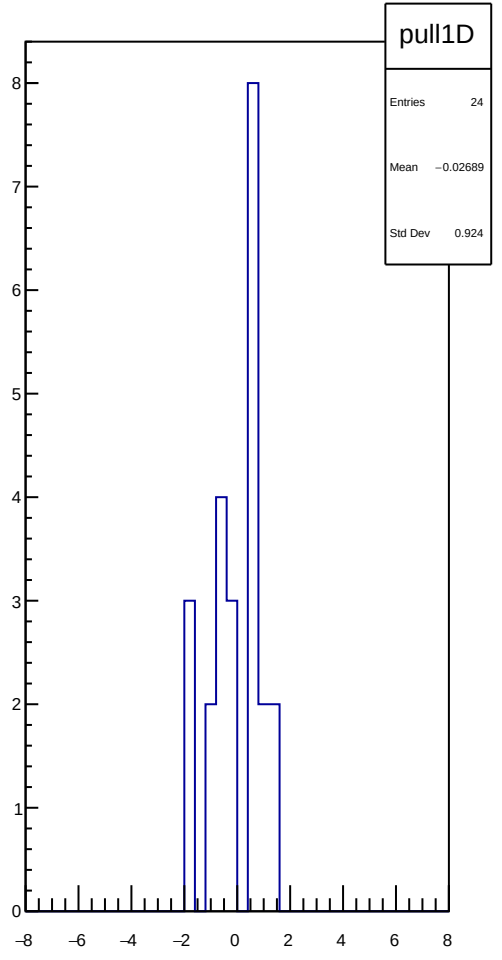
5644. 2
5644. 3


asym_usl_atl1_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 20.51 / 23
p0 −6660 ± 1.015e+04
100
50
0
−50
−100
−150
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −78.48
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean −0.02689
Std Dev 0.924
8
7
6
5
4
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−4
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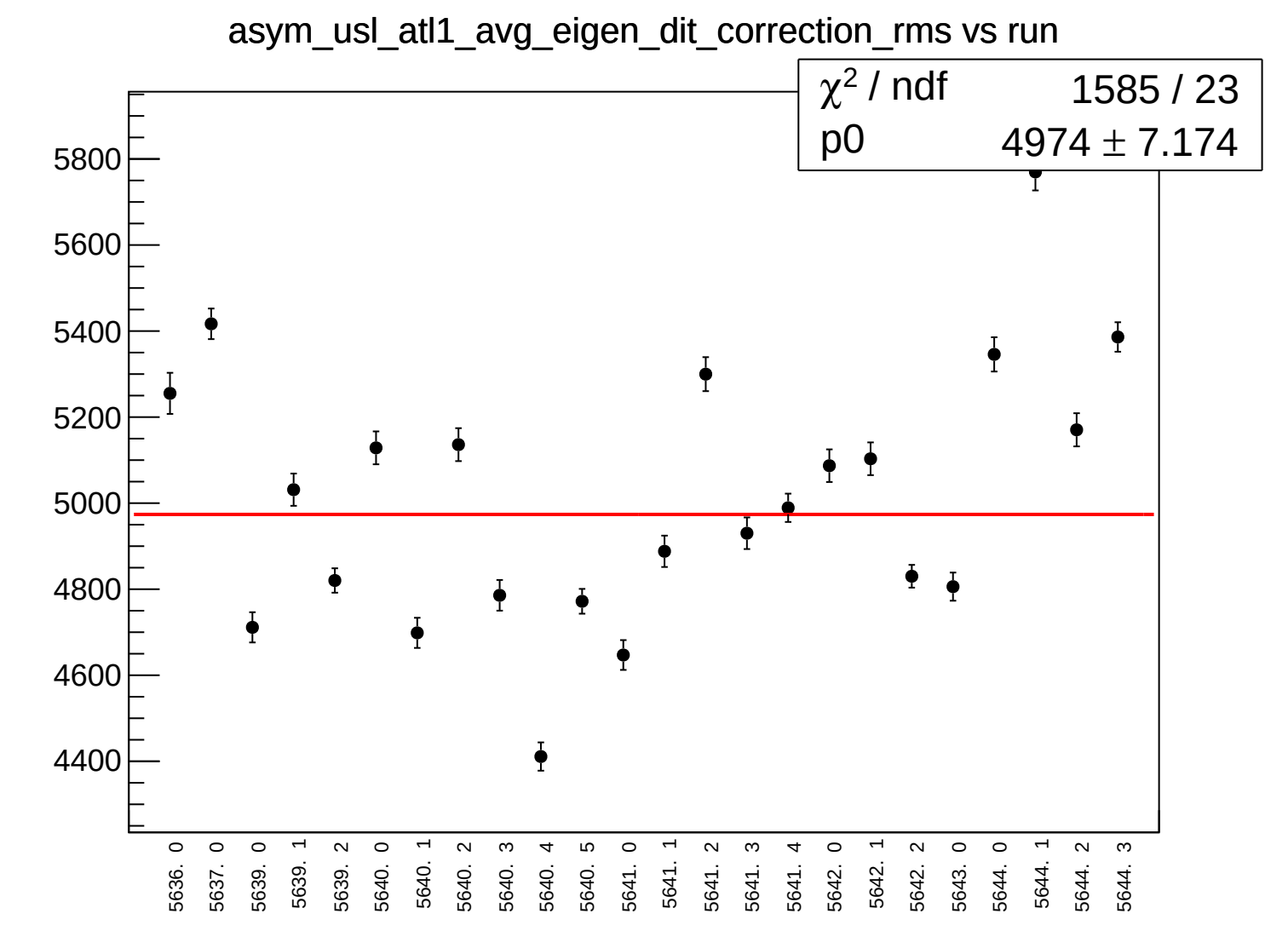
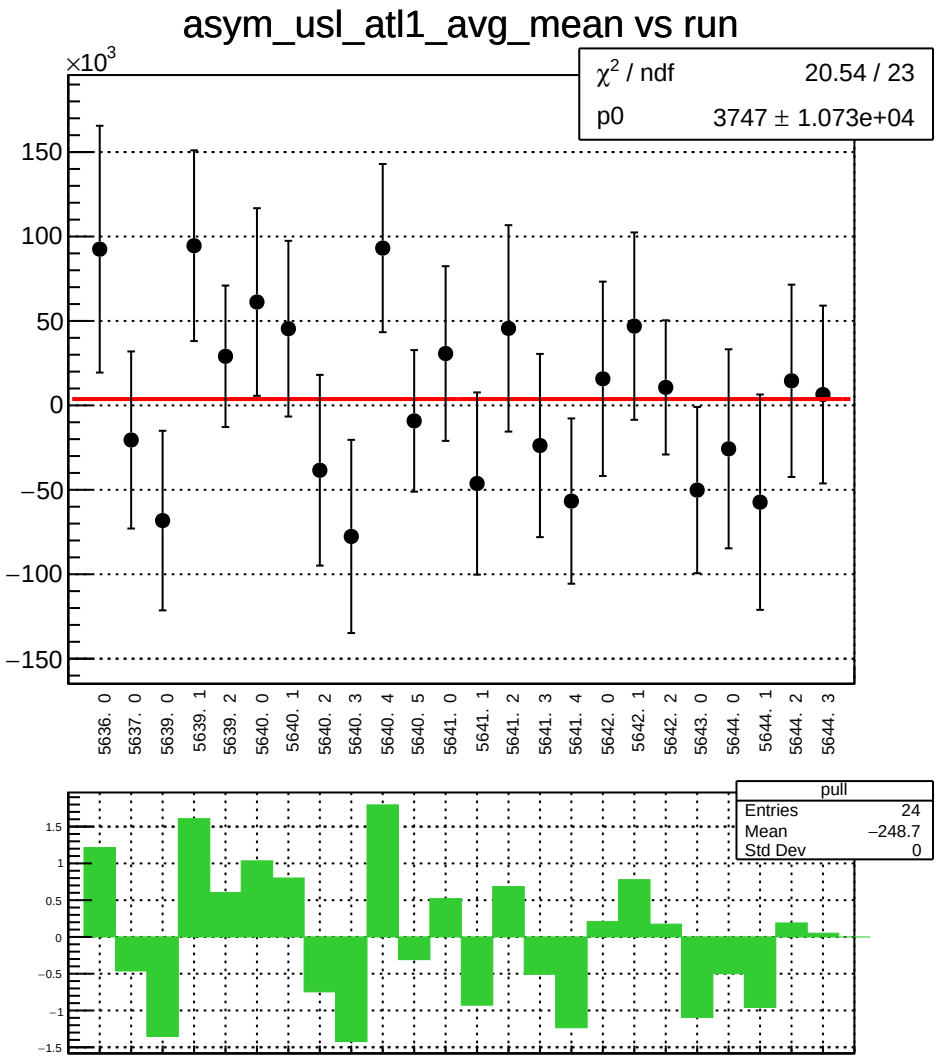
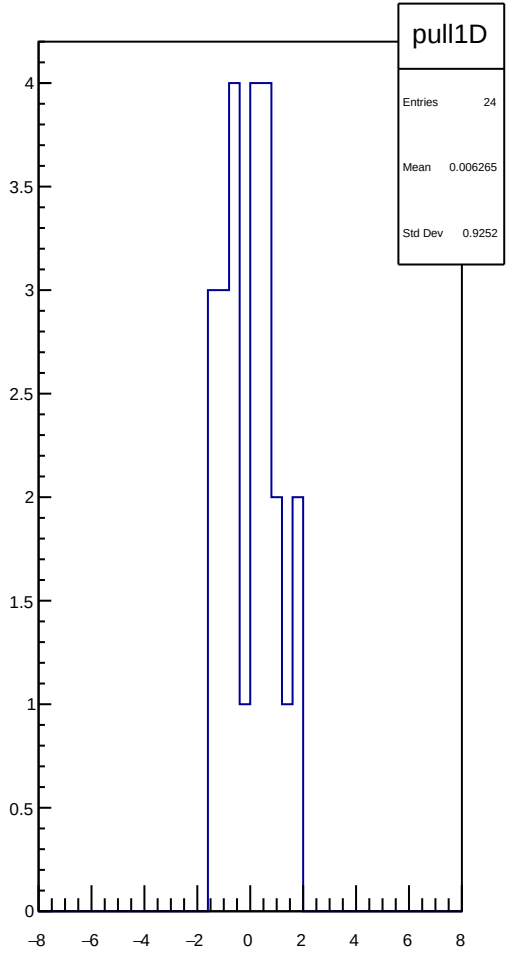
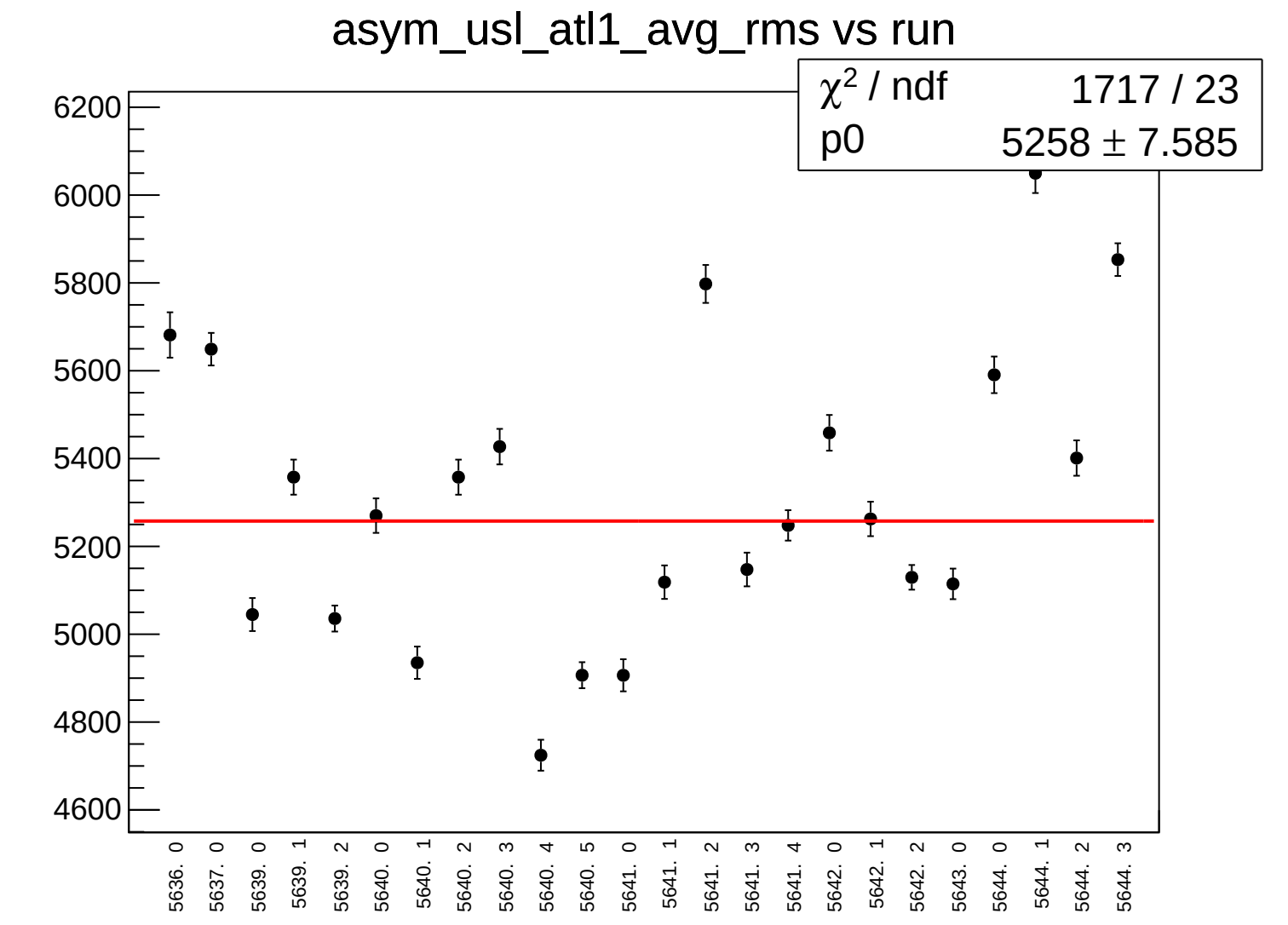
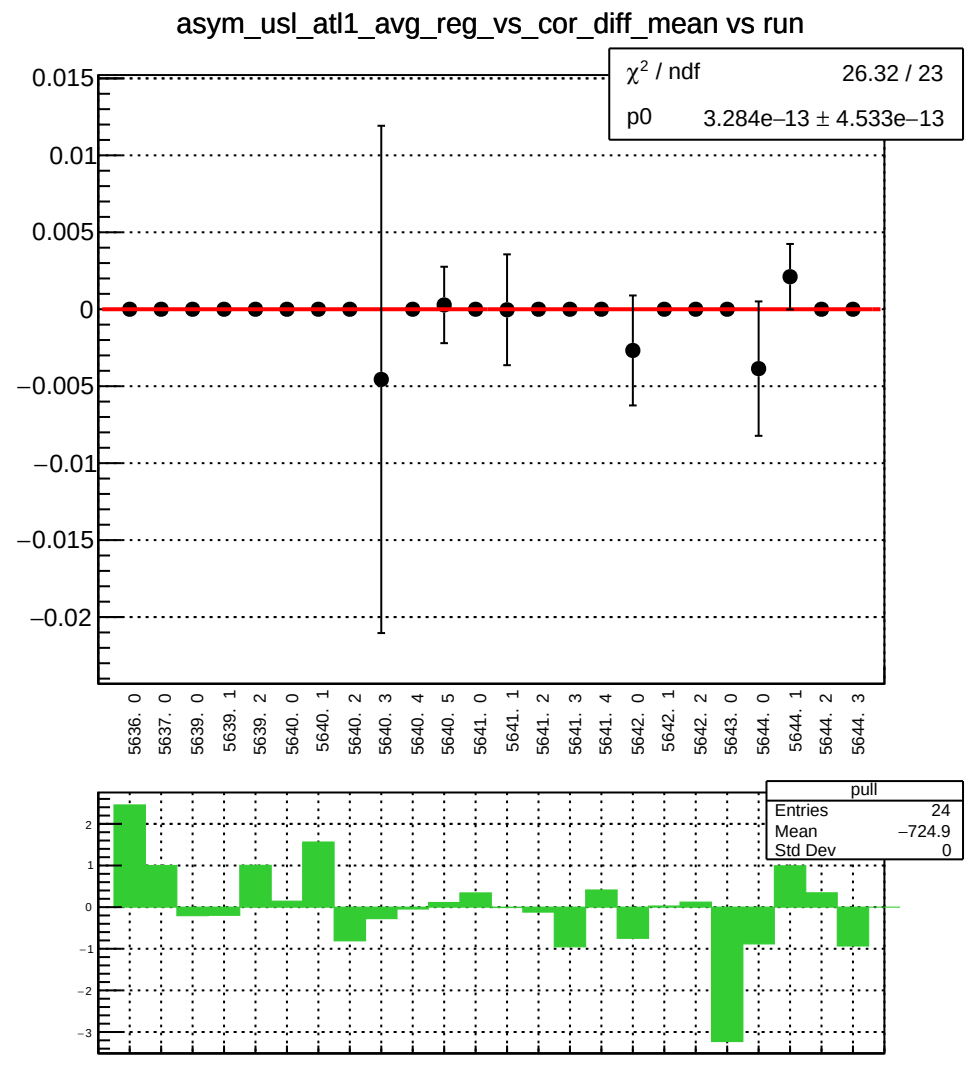
0
2
4
6
8

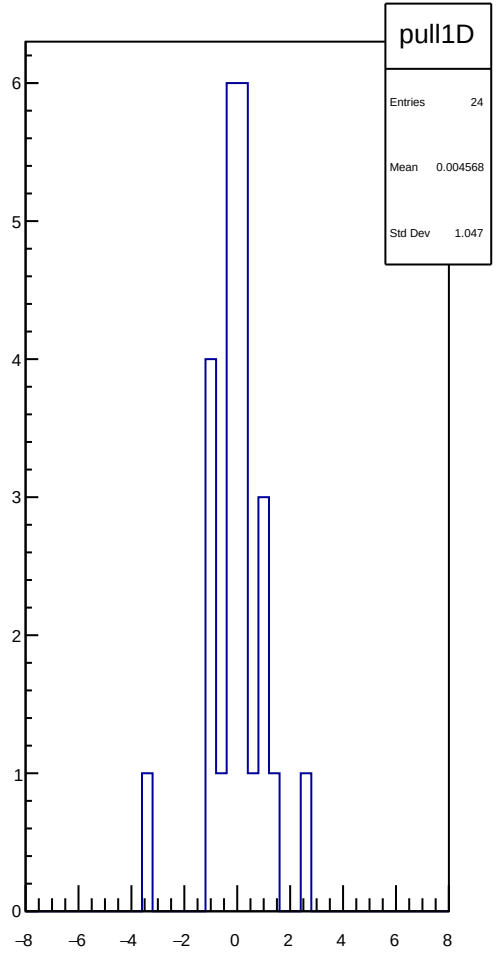

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1585 / 23
p0 4974 ± 7.174
5800
5600
5400
5200
5000
4800
4600
4400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

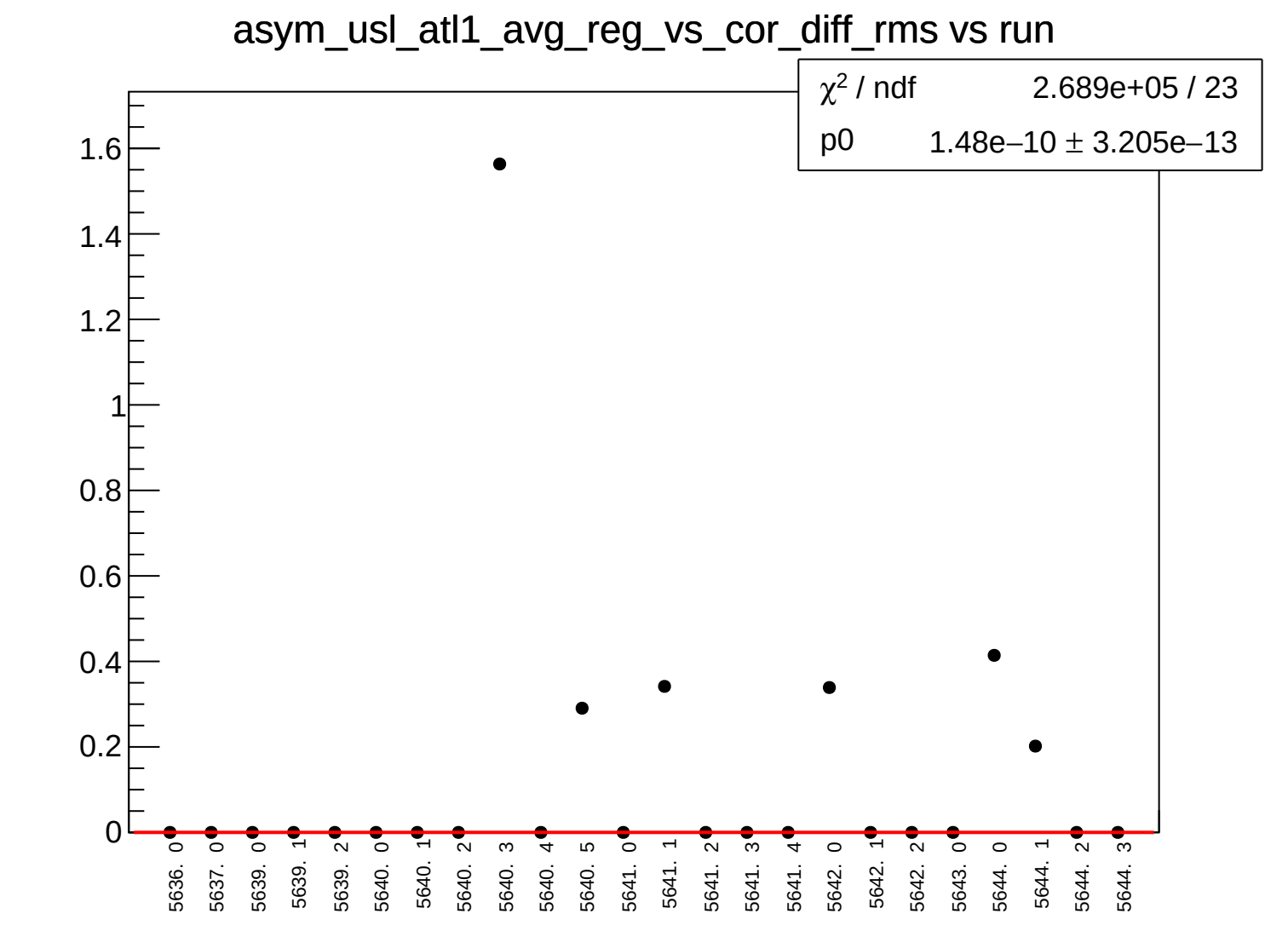

asym_usl_atl1_avg_mean vs run
×10^3
χ² / ndf 20.54 / 23
p0 3747 ± 1.073e+04
150
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −248.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

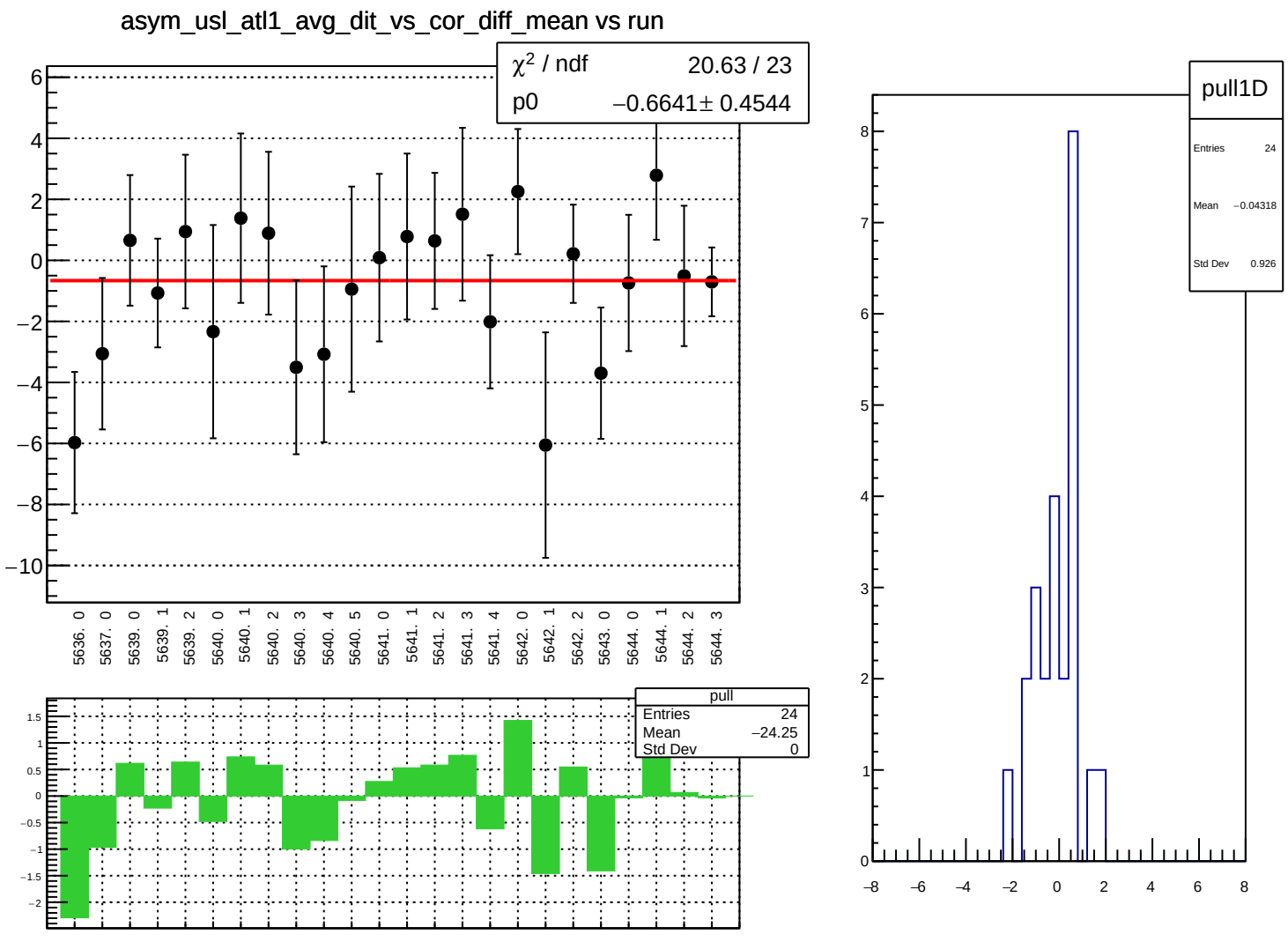

pull1D
Entries 24
Mean 0.006265
Std Dev 0.9252
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

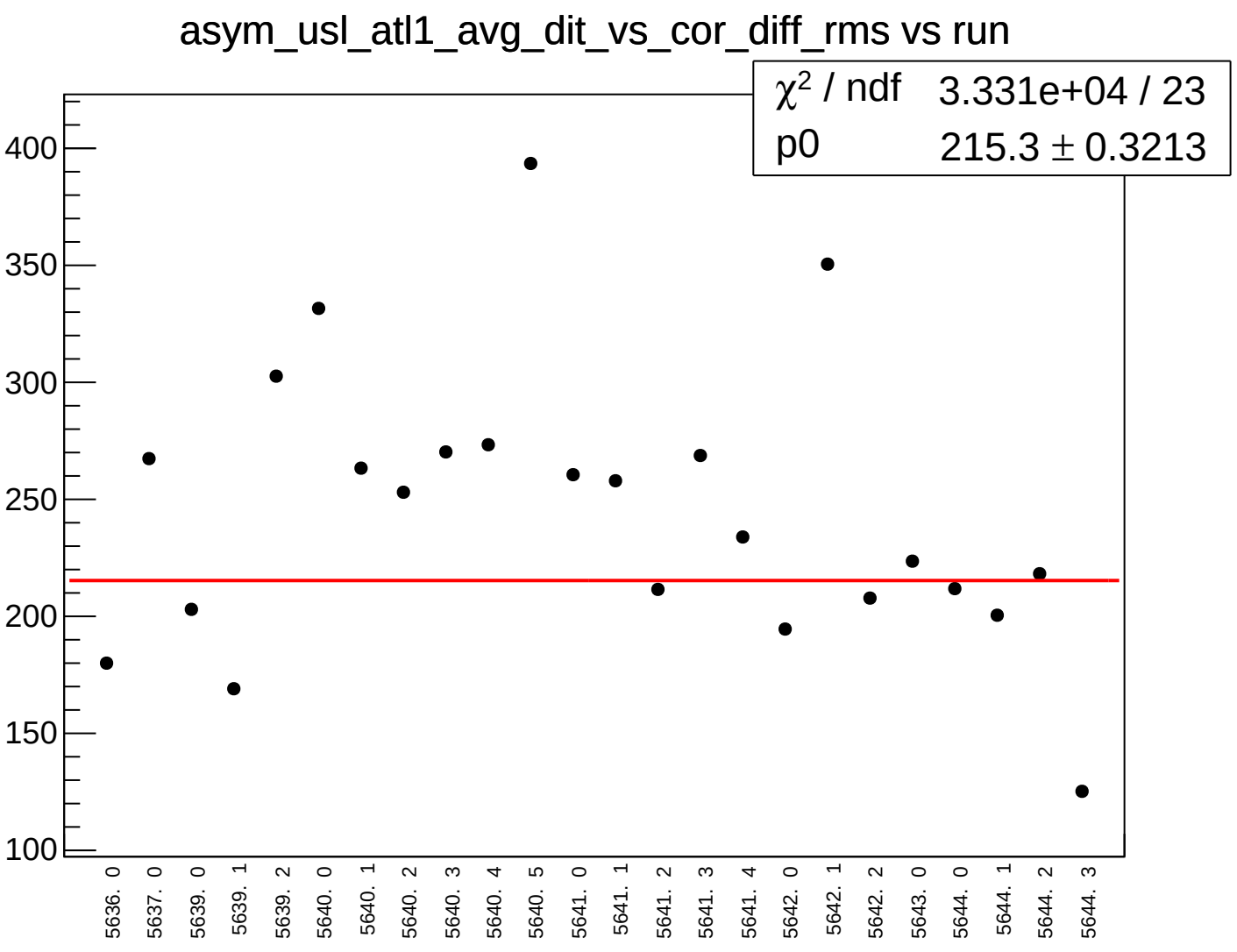

asym_usl_atl1_avg_rms vs run
χ² / ndf 1717 / 23
p0 5258 ± 7.585
6200
6000
5800
5600
5400
5200
5000
4800
4600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

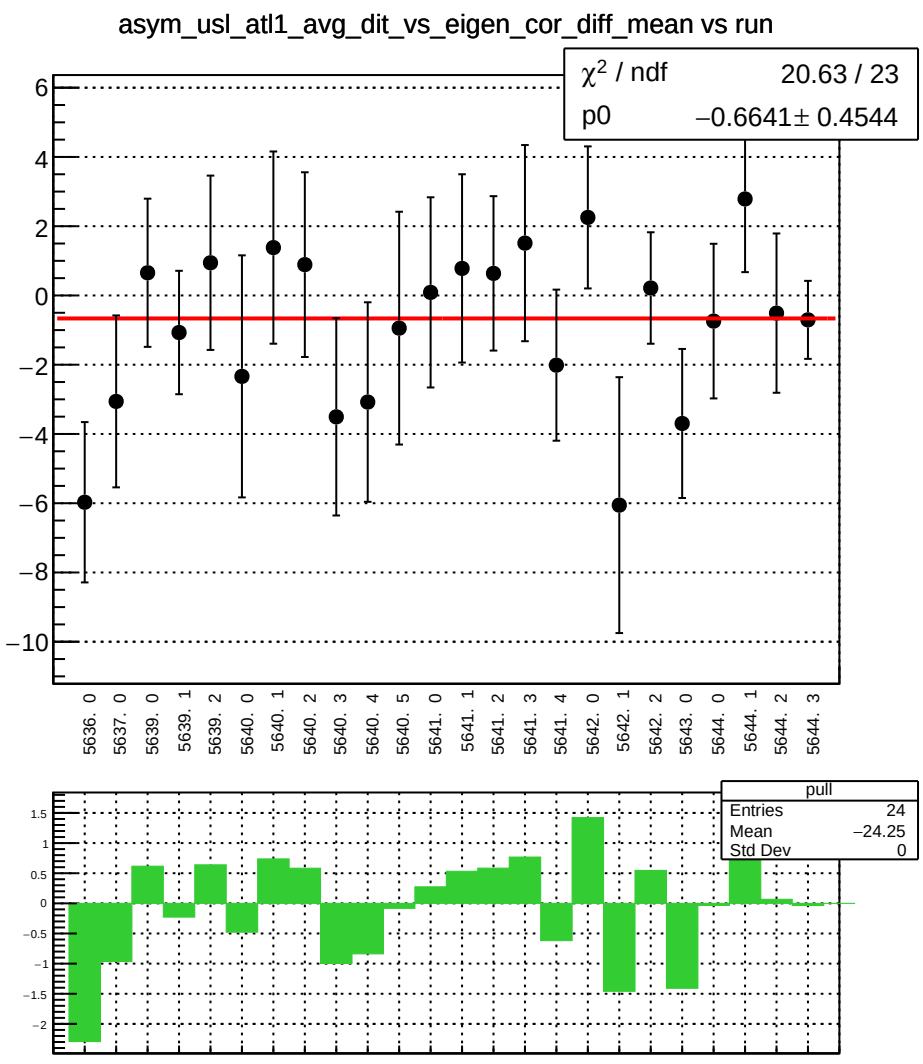

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 26.32 / 23
p0 3.284e−13 ± 4.533e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −724.9
Std Dev 0
2
1
0
−1
−2
−3

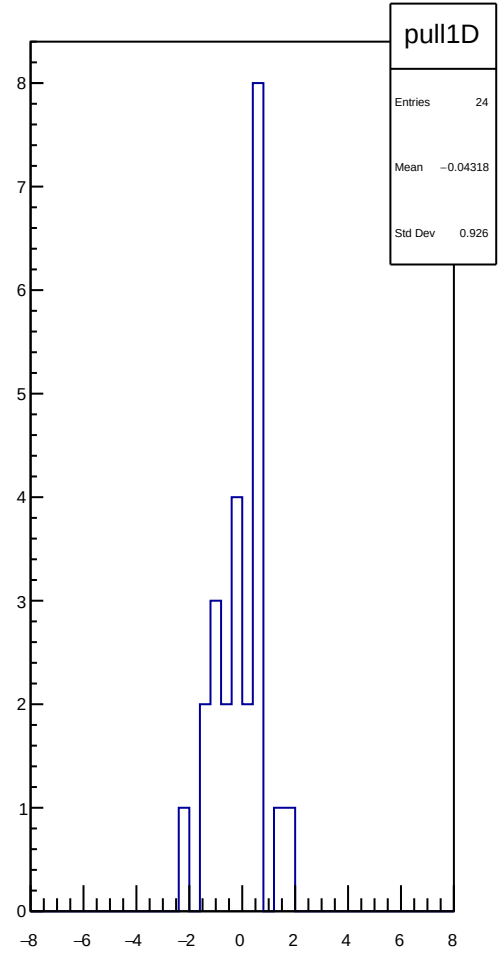

pull1D
Entries 24
Mean 0.004568
Std Dev 1.047
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

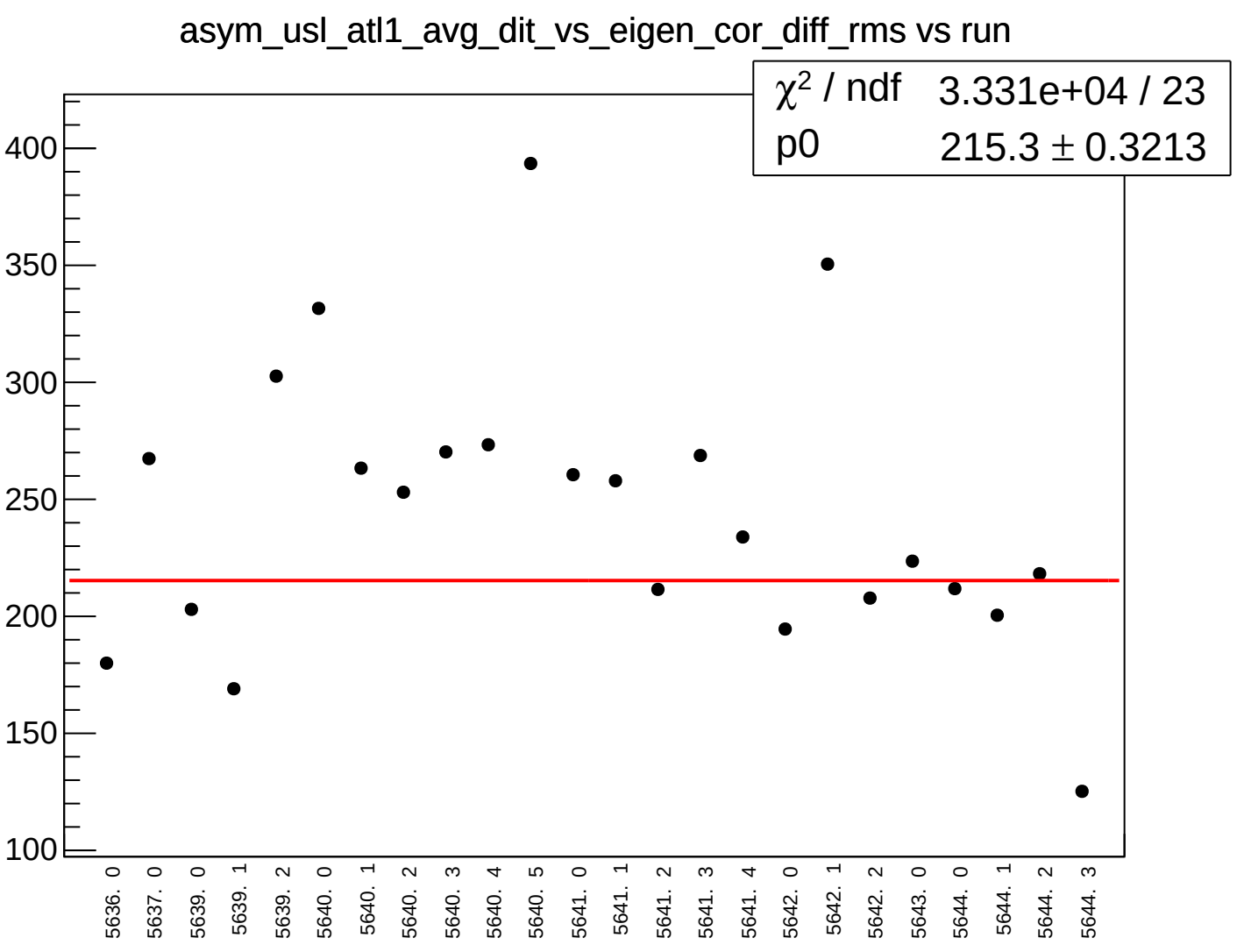

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.689e+05 / 23
p0 1.48e−10 ± 3.205e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

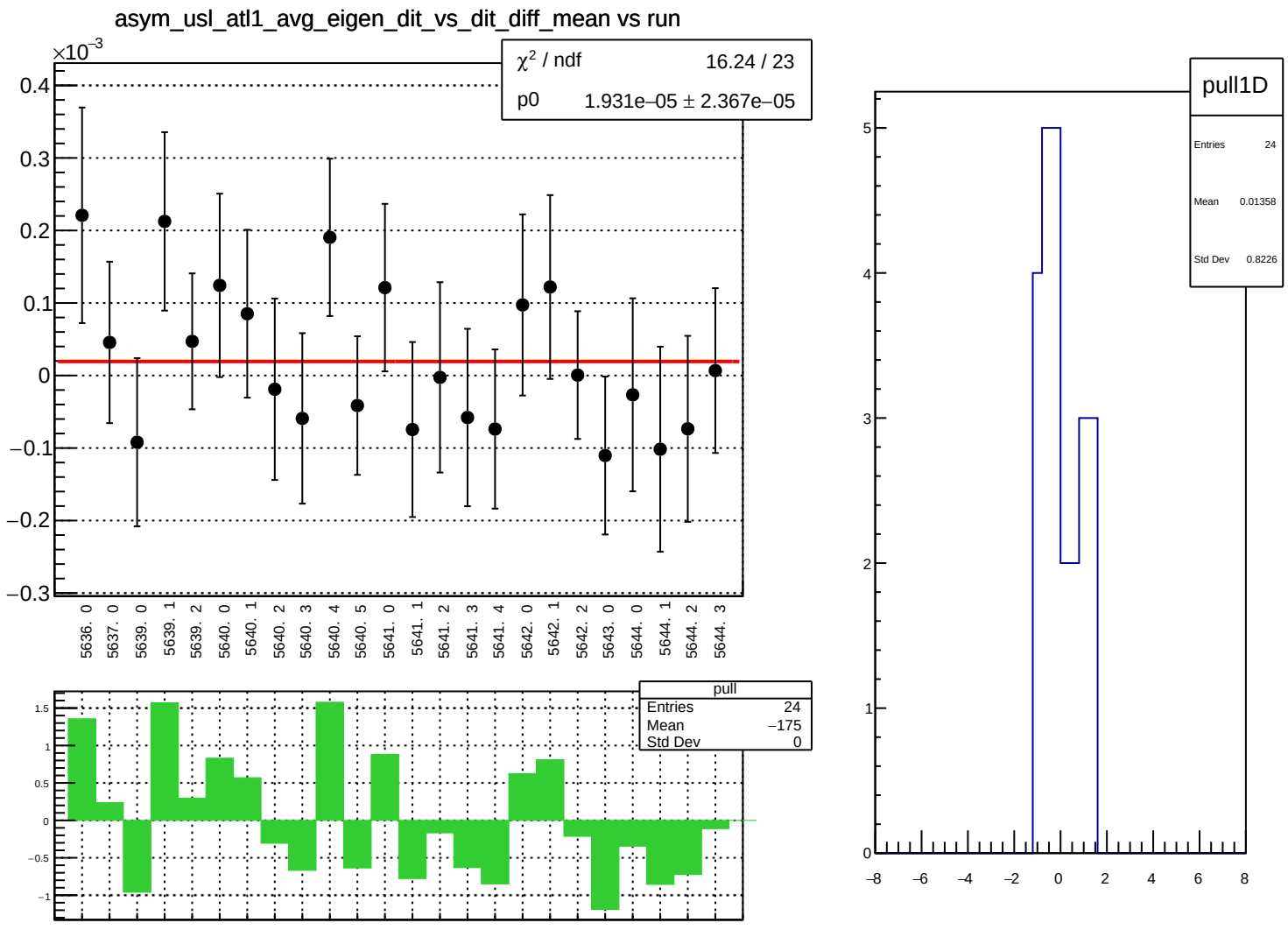

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 20.63 / 23
p0 −0.6641± 0.4544
6
4
2
0
−2
−4
−6
−8
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −24.25
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.04318
Std Dev 0.926
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

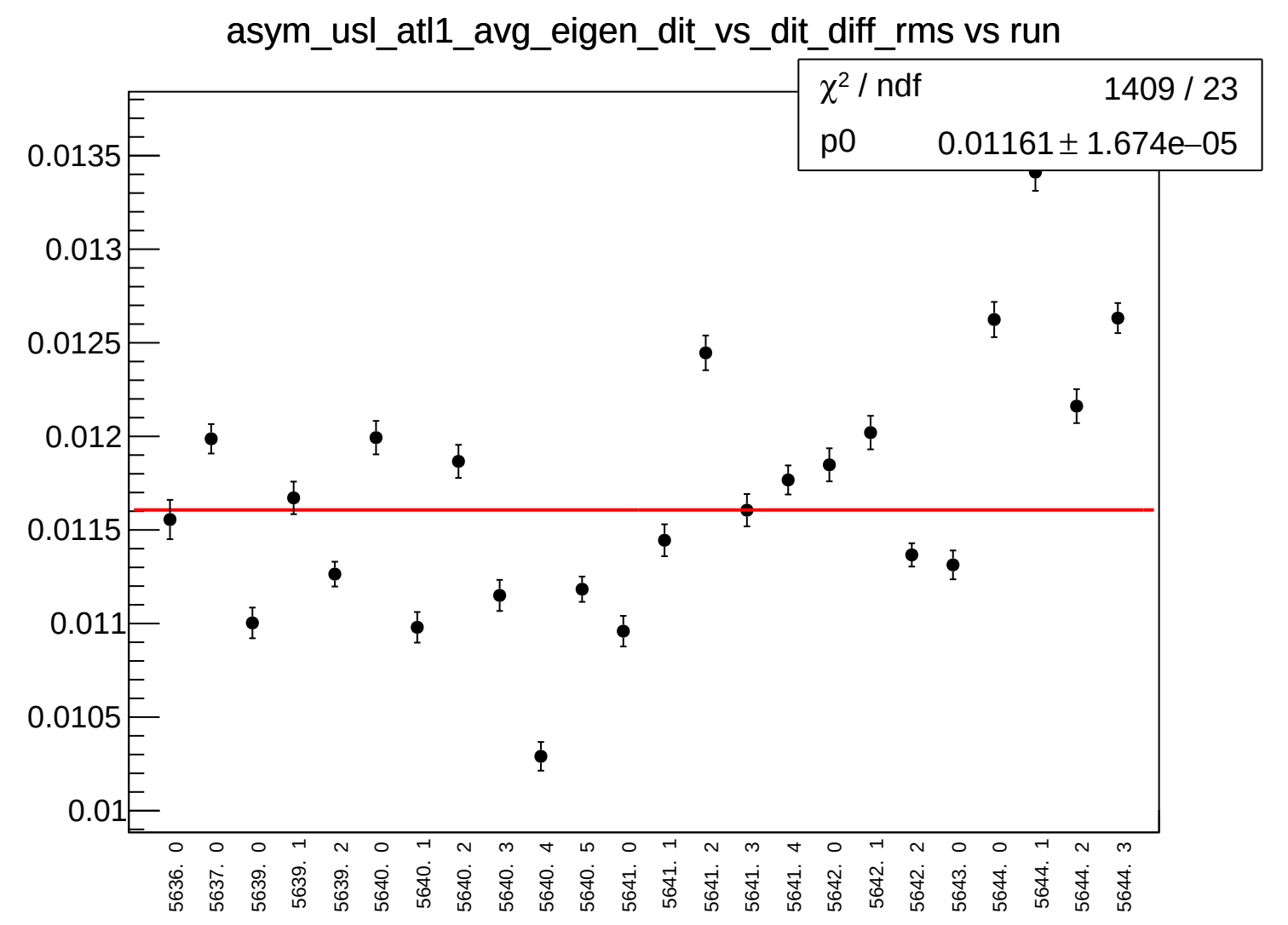

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.331e+04 / 23
p0 215.3 ± 0.3213
400
350
300
250
200
150
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

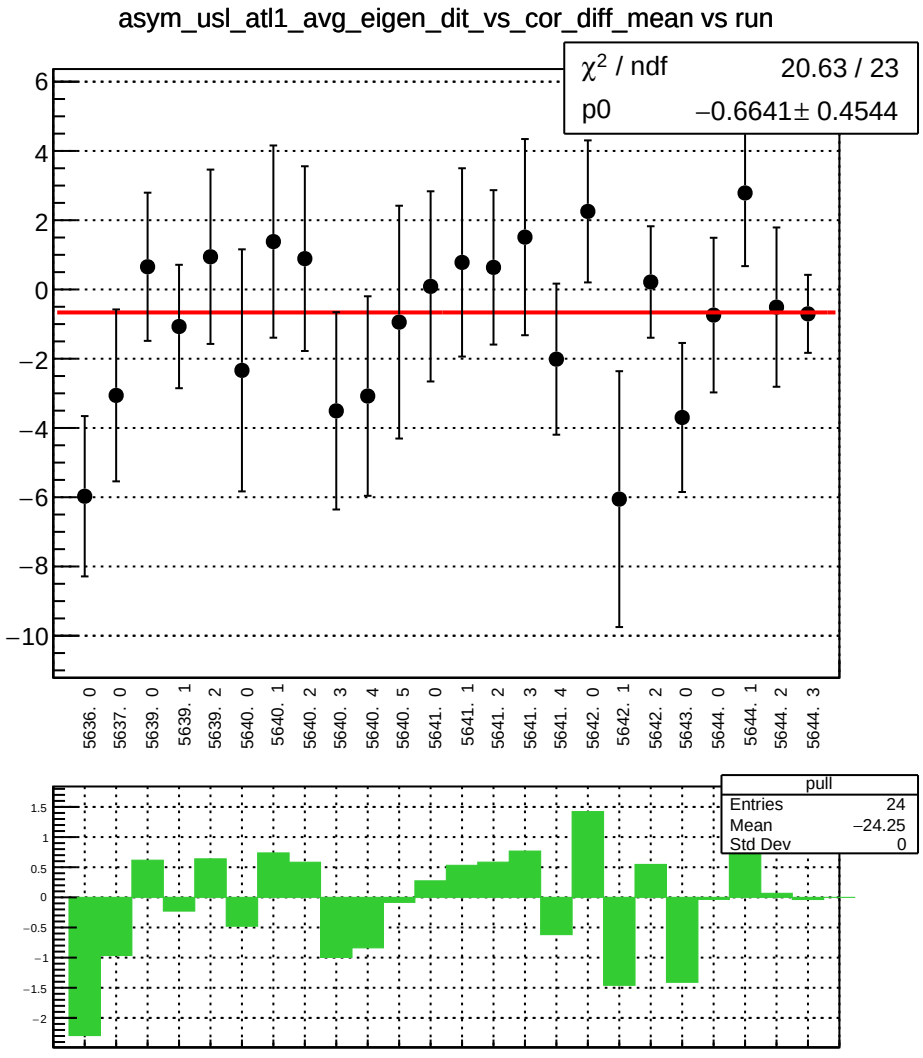

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 20.63 / 23
p0 −0.6641± 0.4544
6
4
2
0
−2
−4
−6
−8
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −24.25
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

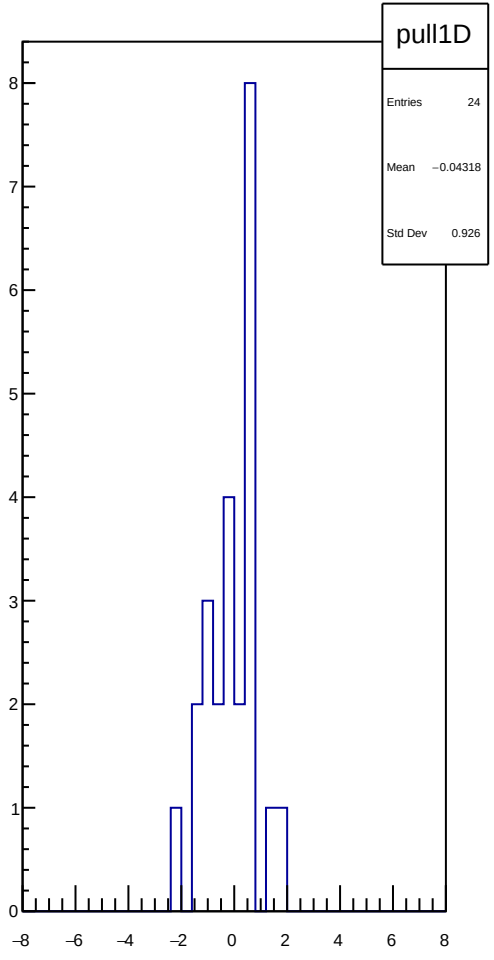

pull1D
Entries 24
Mean −0.04318
Std Dev 0.926
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

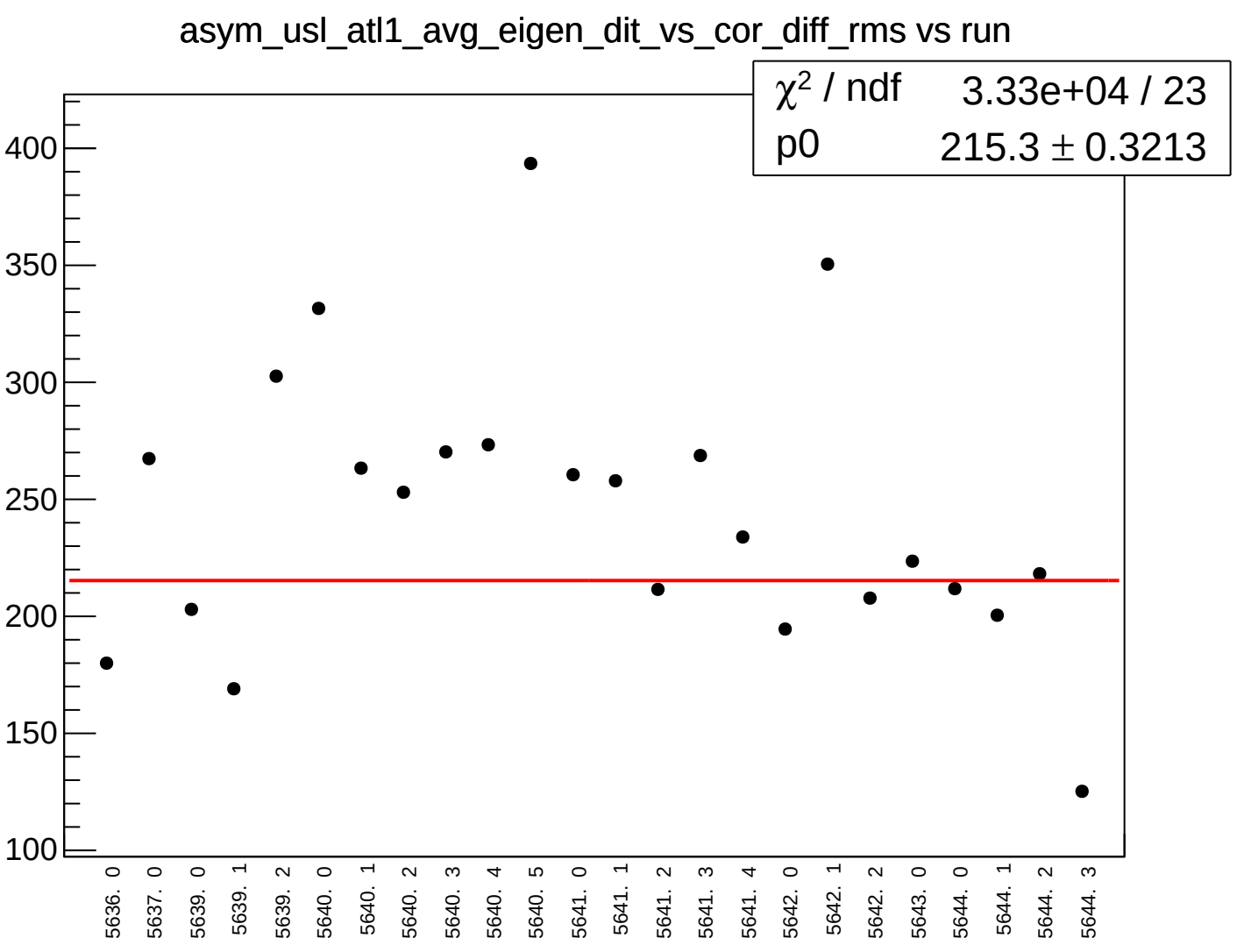

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.331e+04 / 23
p0 215.3 ± 0.3213
400
350
300
250
200
150
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

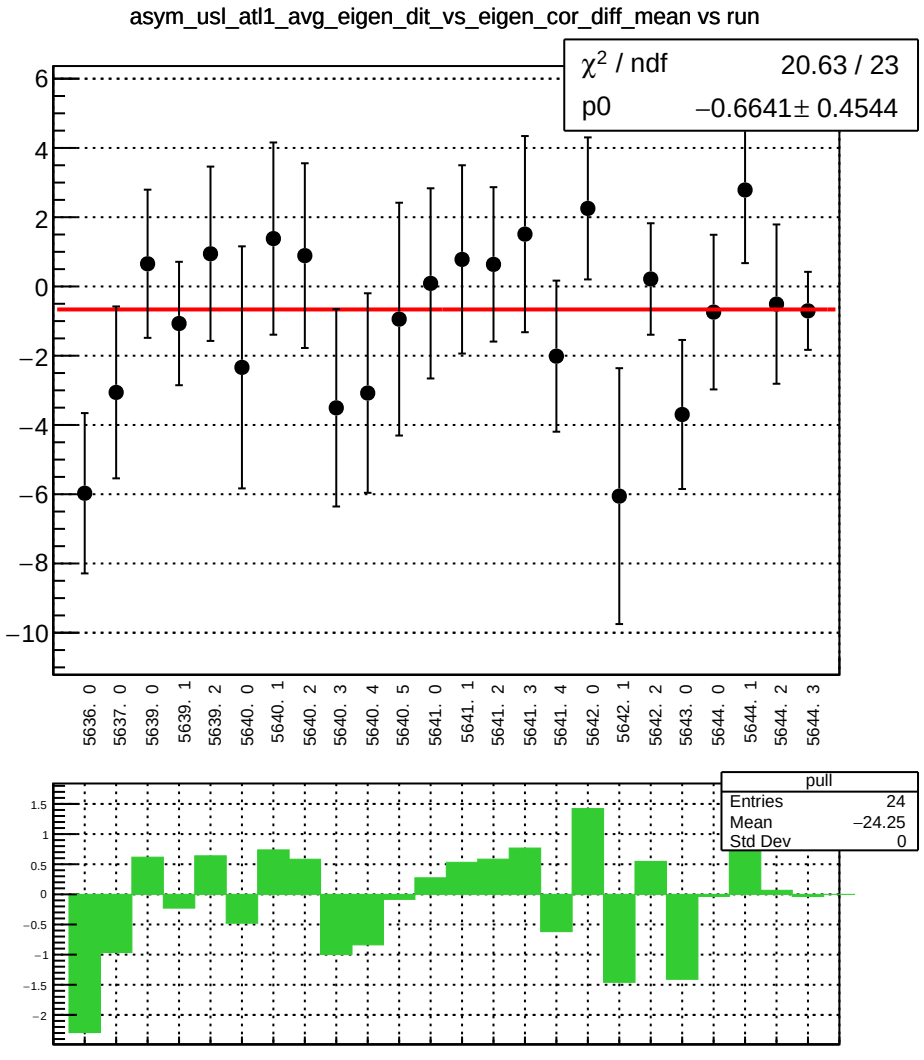

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 16.24 / 23
p0 1.931e−05 ± 2.367e−05
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −175
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.01358
Std Dev 0.8226
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

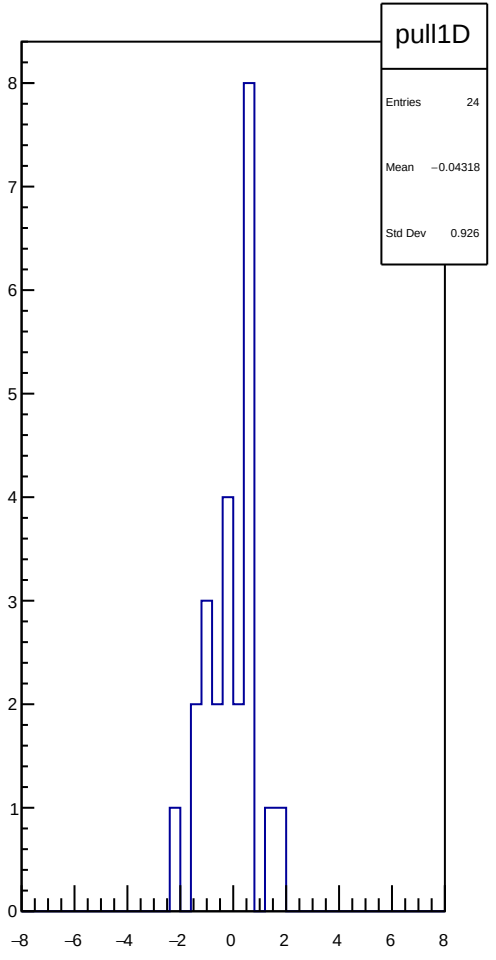

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1409 / 23
p0 0.01161 ± 1.674e–05
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

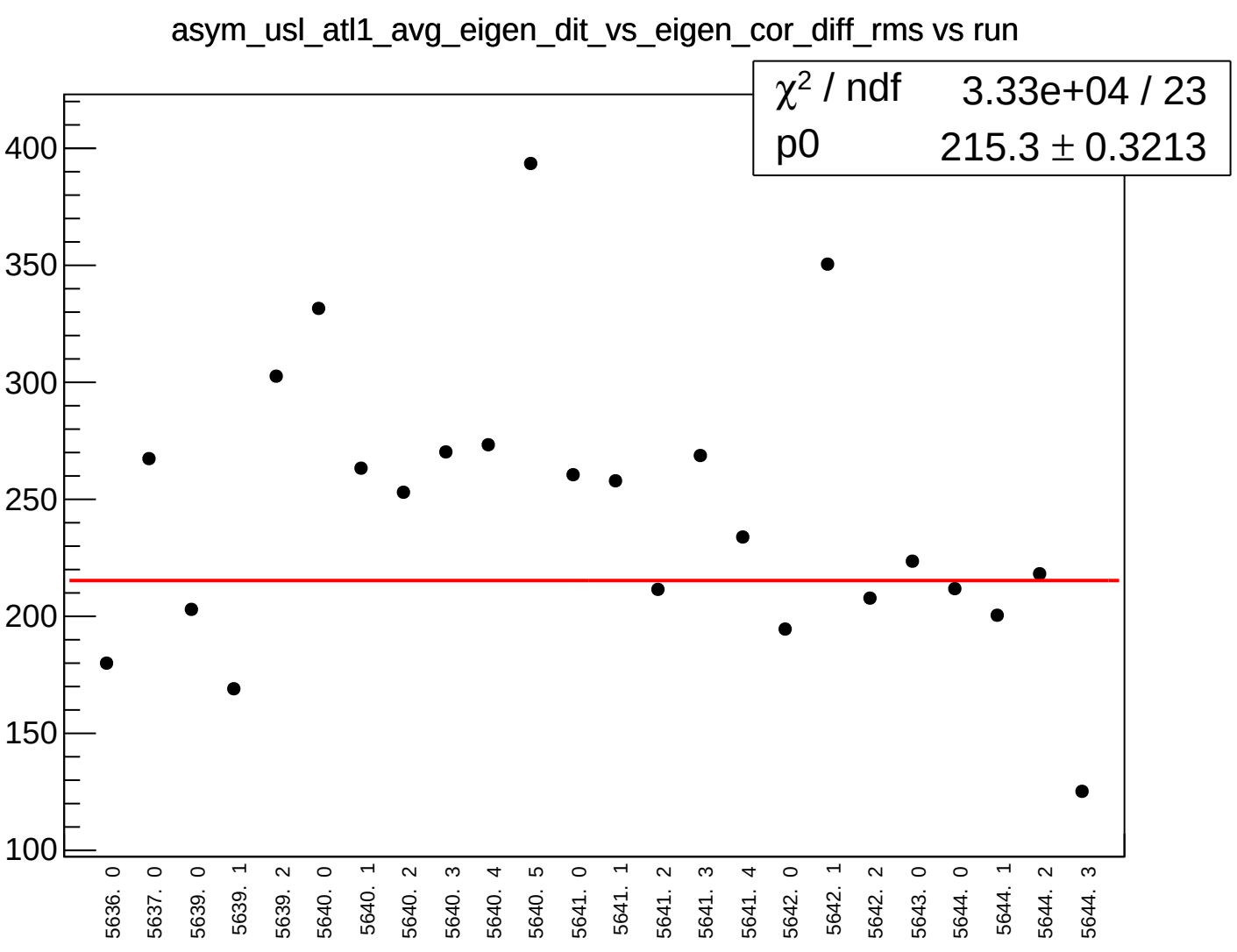

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 20.63 / 23
p0 −0.6641± 0.4544
6
4
2
0
−2
−4
−6
−8
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −24.25
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

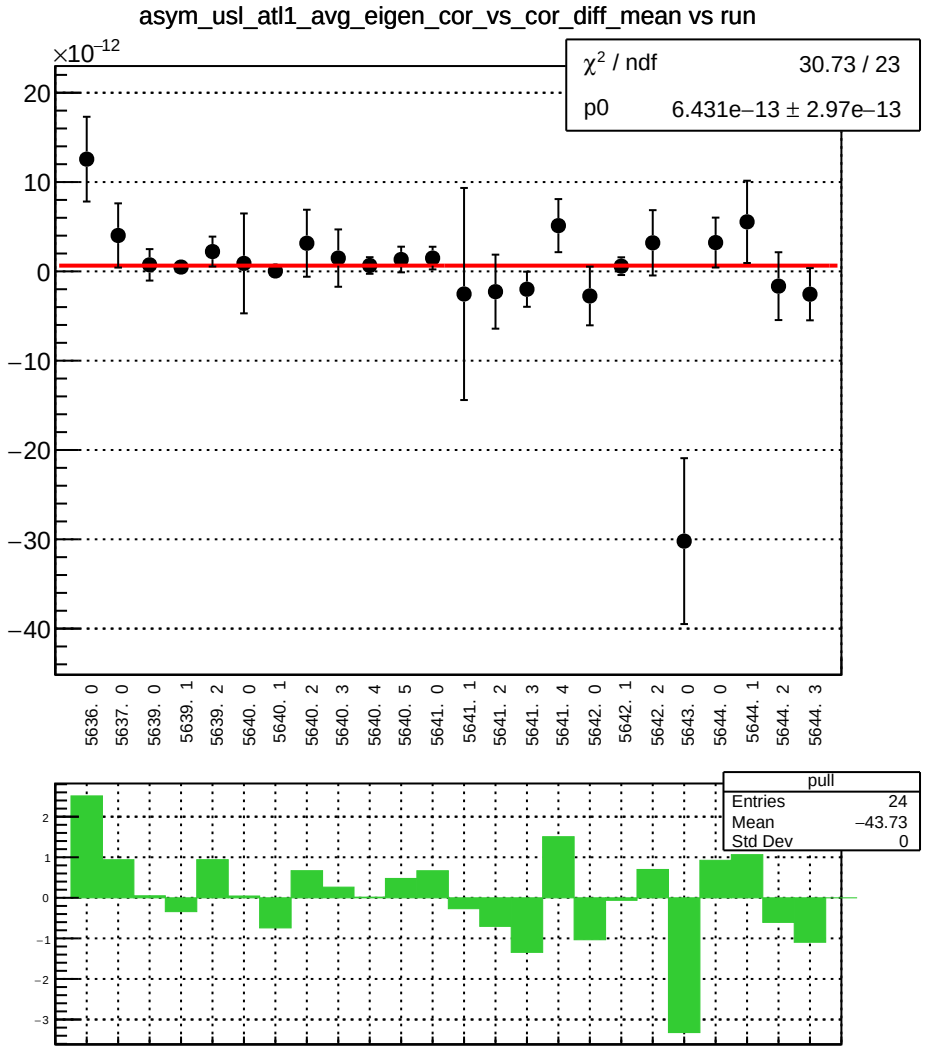

pull1D
Entries 24
Mean −0.04318
Std Dev 0.926
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

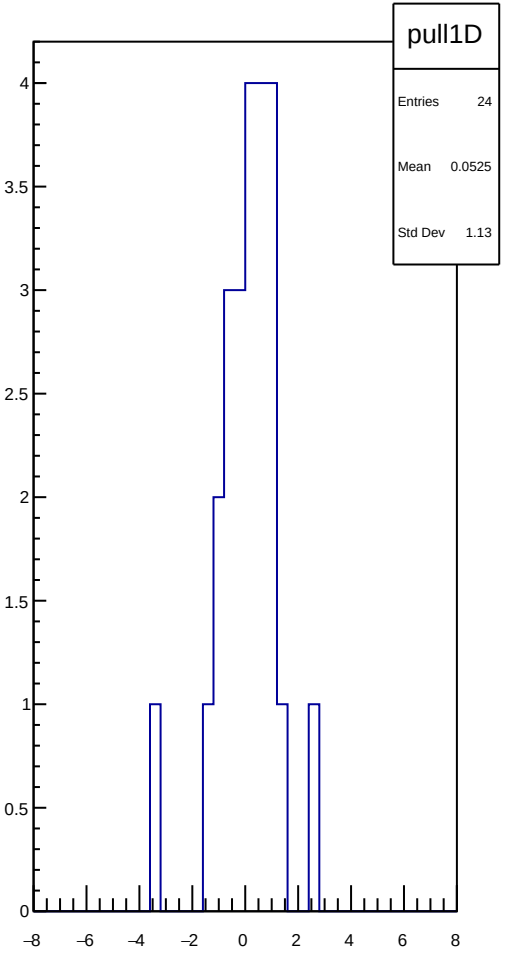

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ2 / ndf 3.33e+04 / 23
p0 215.3 ± 0.3213
400
350
300
250
200
150
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

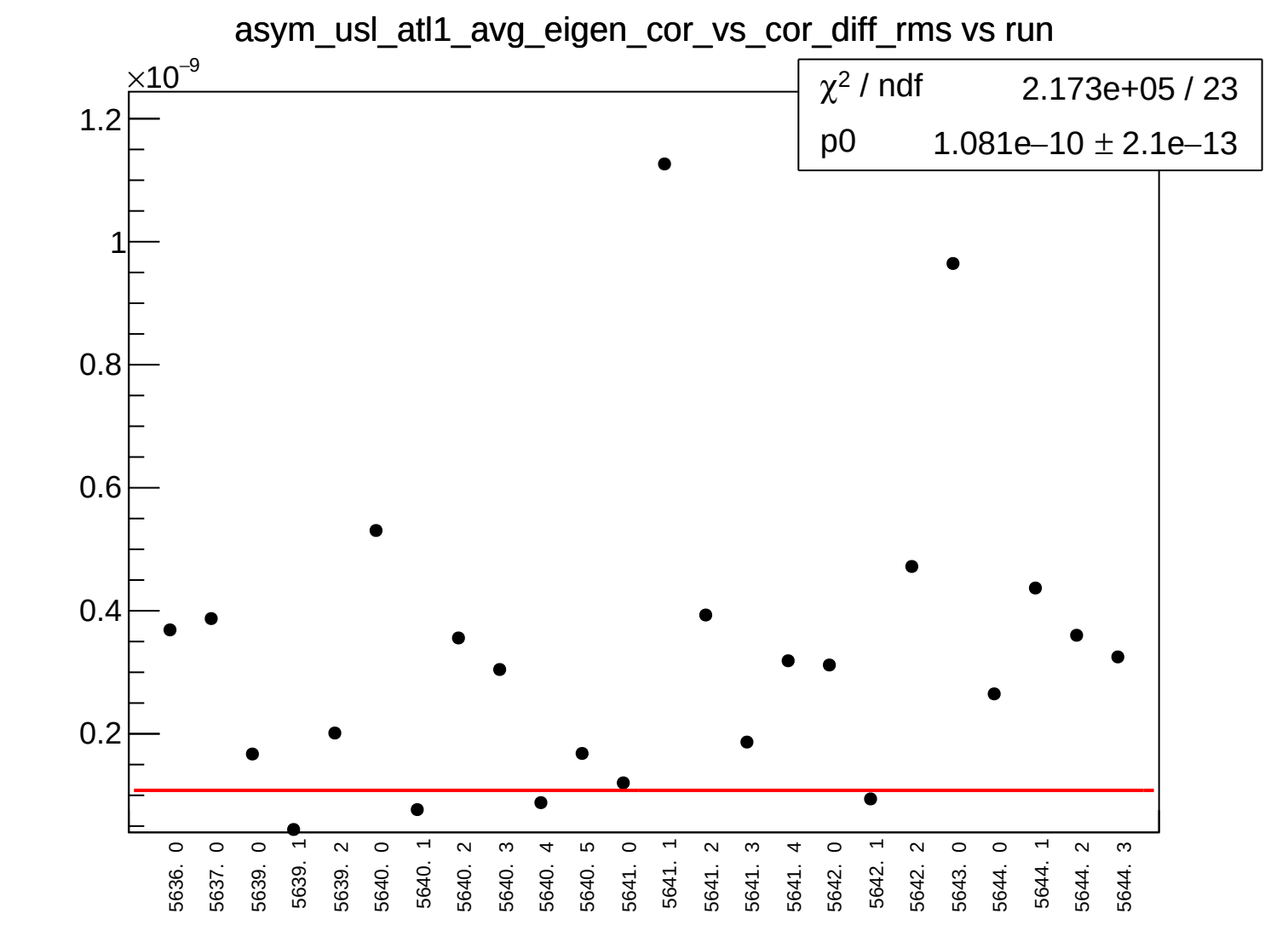

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 20.63 / 23
p0 −0.6641± 0.4544
6
4
2
0
−2
−4
−6
−8
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −24.25
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

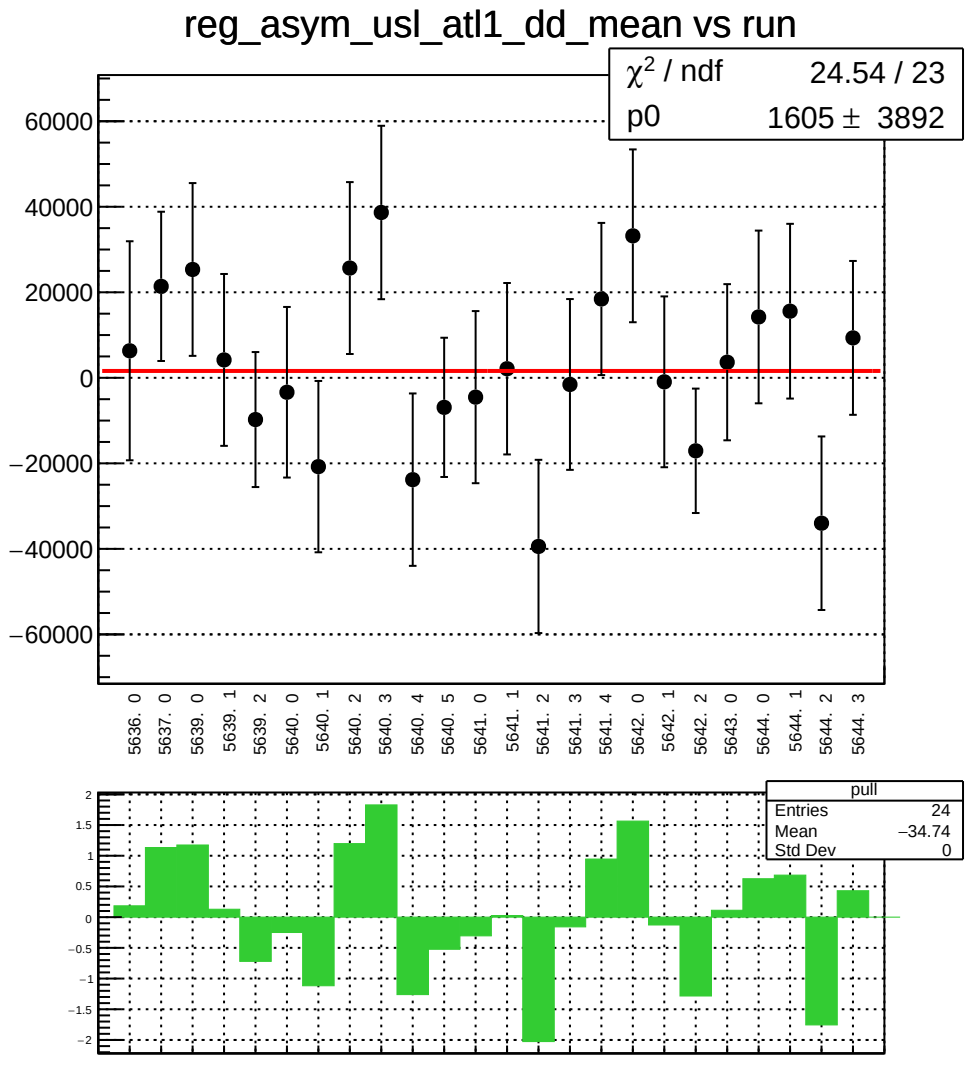

pull1D
Entries 24
Mean −0.04318
Std Dev 0.926
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

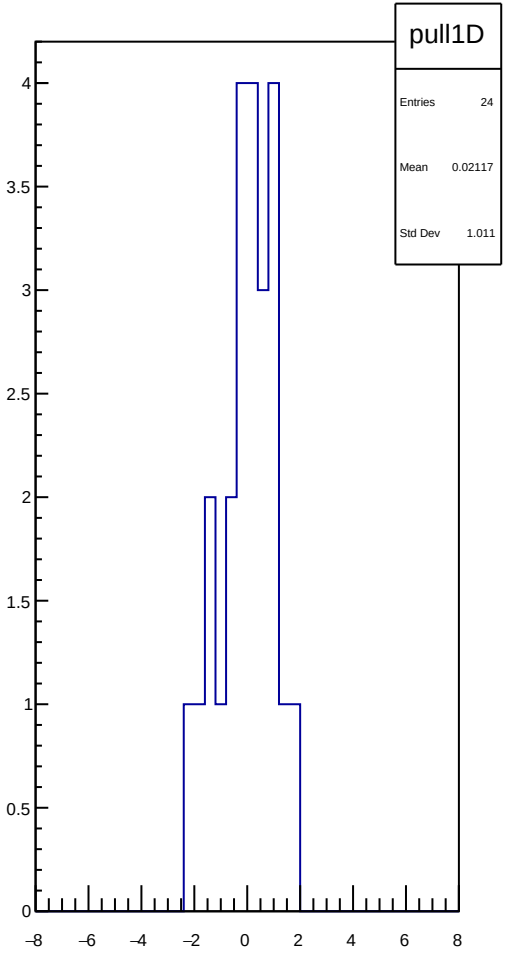

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.33e+04 / 23
p0 215.3 ± 0.3213
400
350
300
250
200
150
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

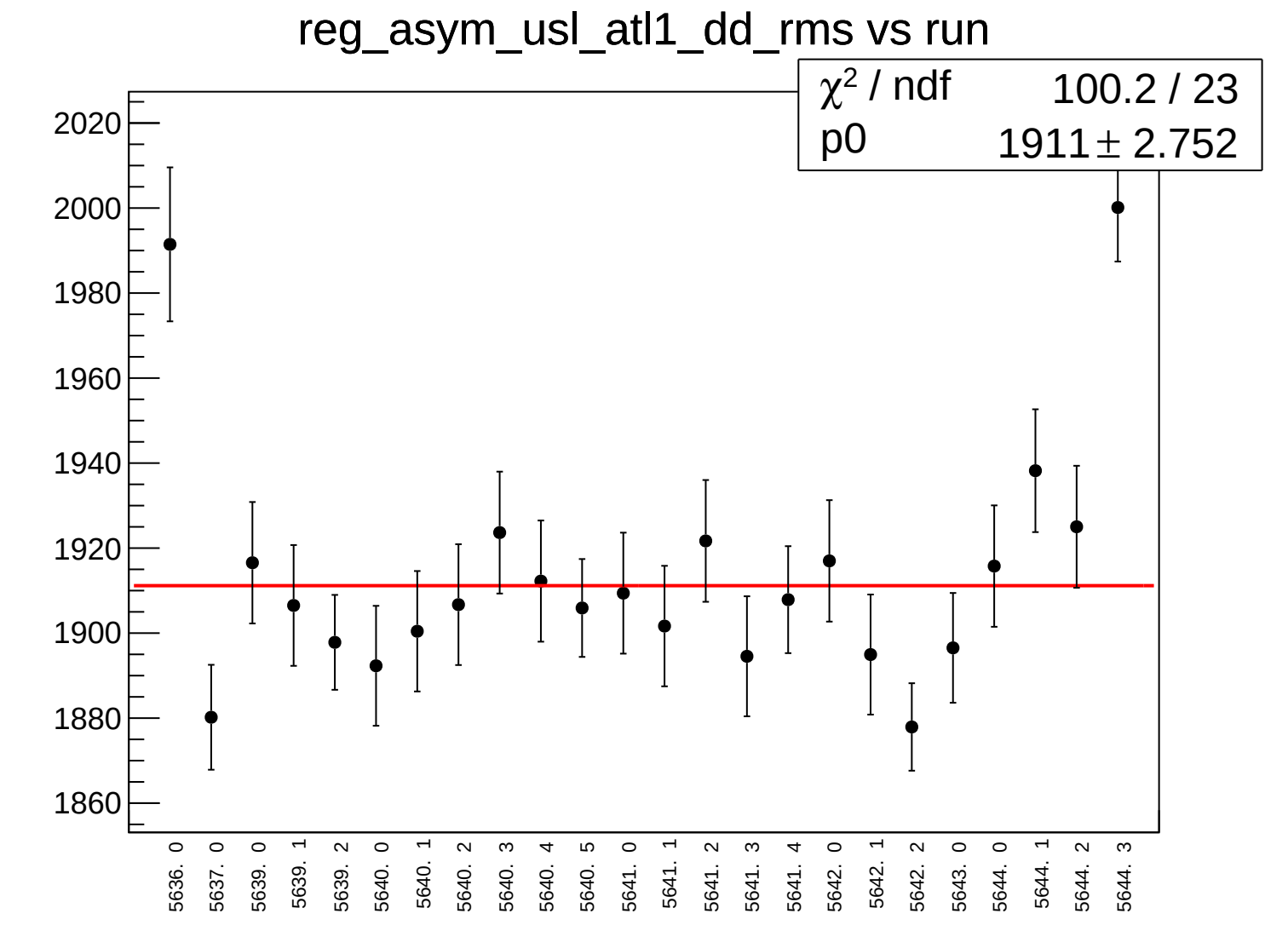

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 30.73 / 23
p0 6.431e−13 ± 2.97e−13
20
10
0
−10
−20
−30
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −43.73
Std Dev 0
2
1
0
−1
−2
−3

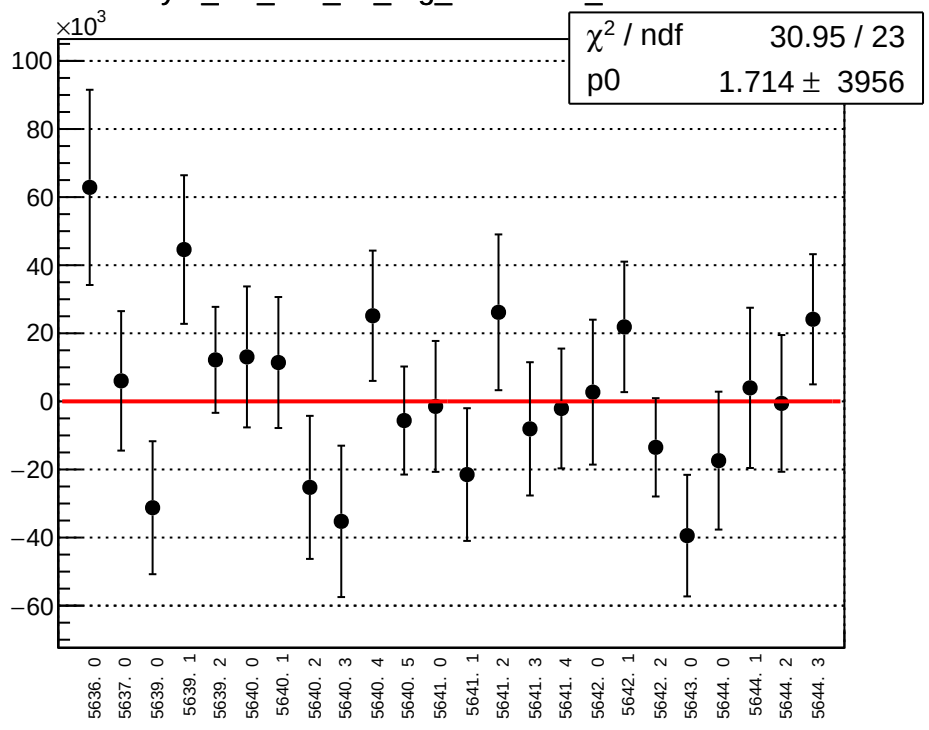

pull1D
Entries 24
Mean 0.0525
Std Dev 1.13
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

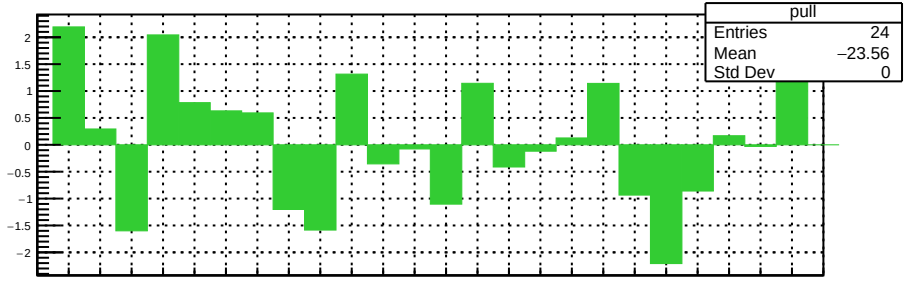

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.173e+05 / 23
p0 1.081e−10 ± 2.1e−13
1.2
1
0.8
0.6
0.4
0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

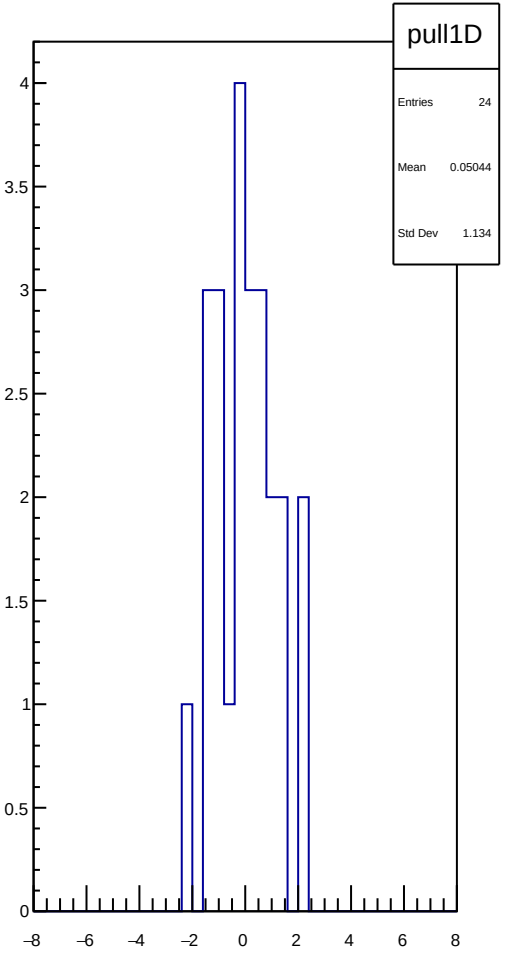

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 24.54 / 23
p0 1605 ± 3892
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −34.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

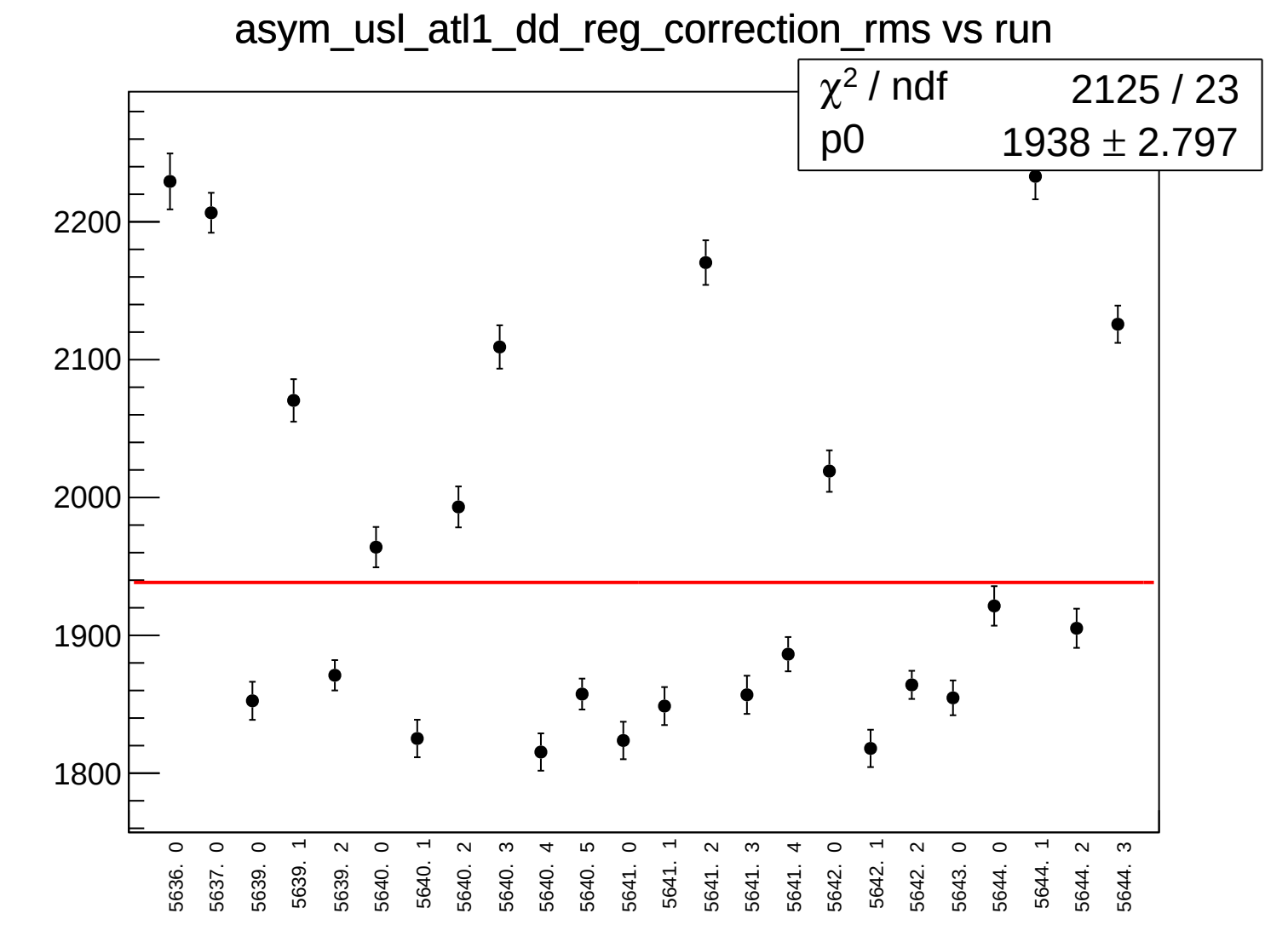

pull1D
Entries 24
Mean 0.02117
Std Dev 1.011
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

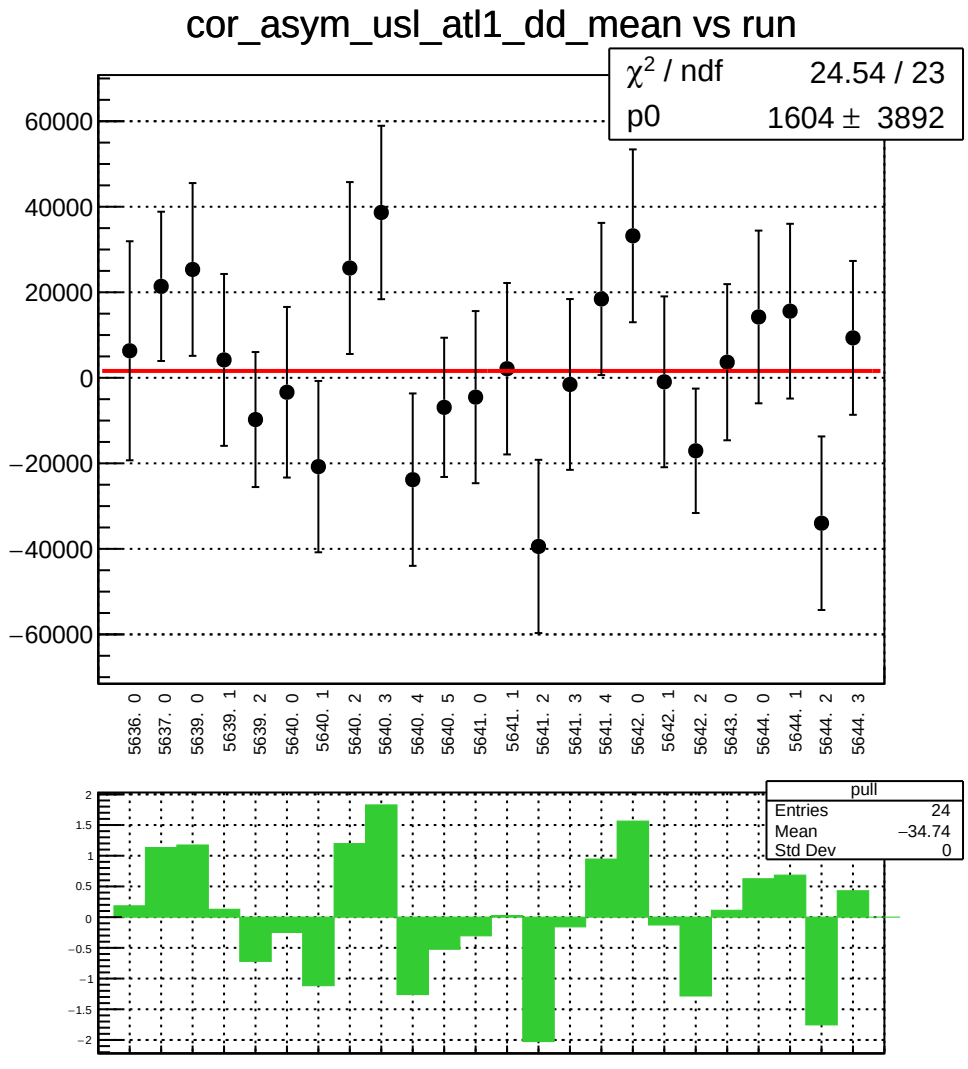

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 100.2 / 23
p0 1911 ± 2.752
2020
2000
1980
1960
1940
1920
1900
1880
1860
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

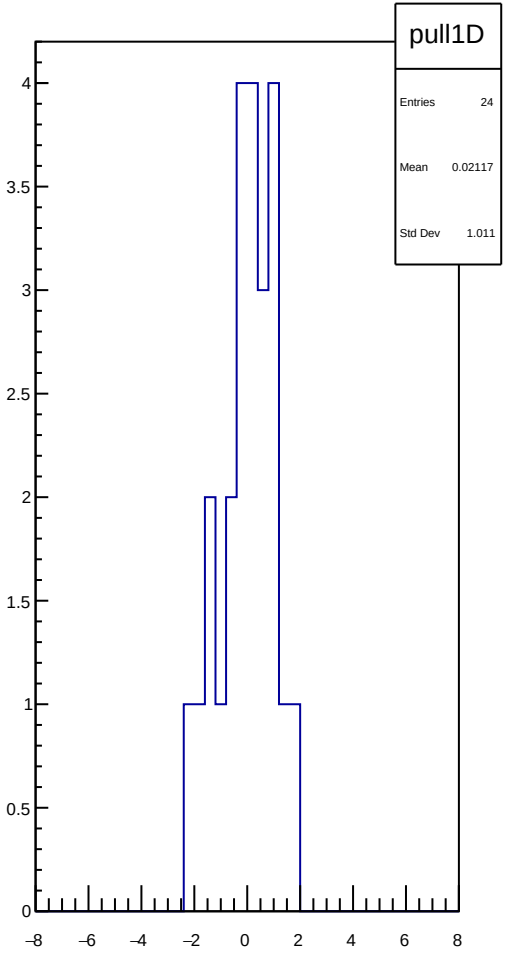

asym_usl_atl1_dd_reg_correction_mean vs run
×10^3
χ² / ndf 30.95 / 23
p0 1.714 ± 3956
100
80
60
40
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

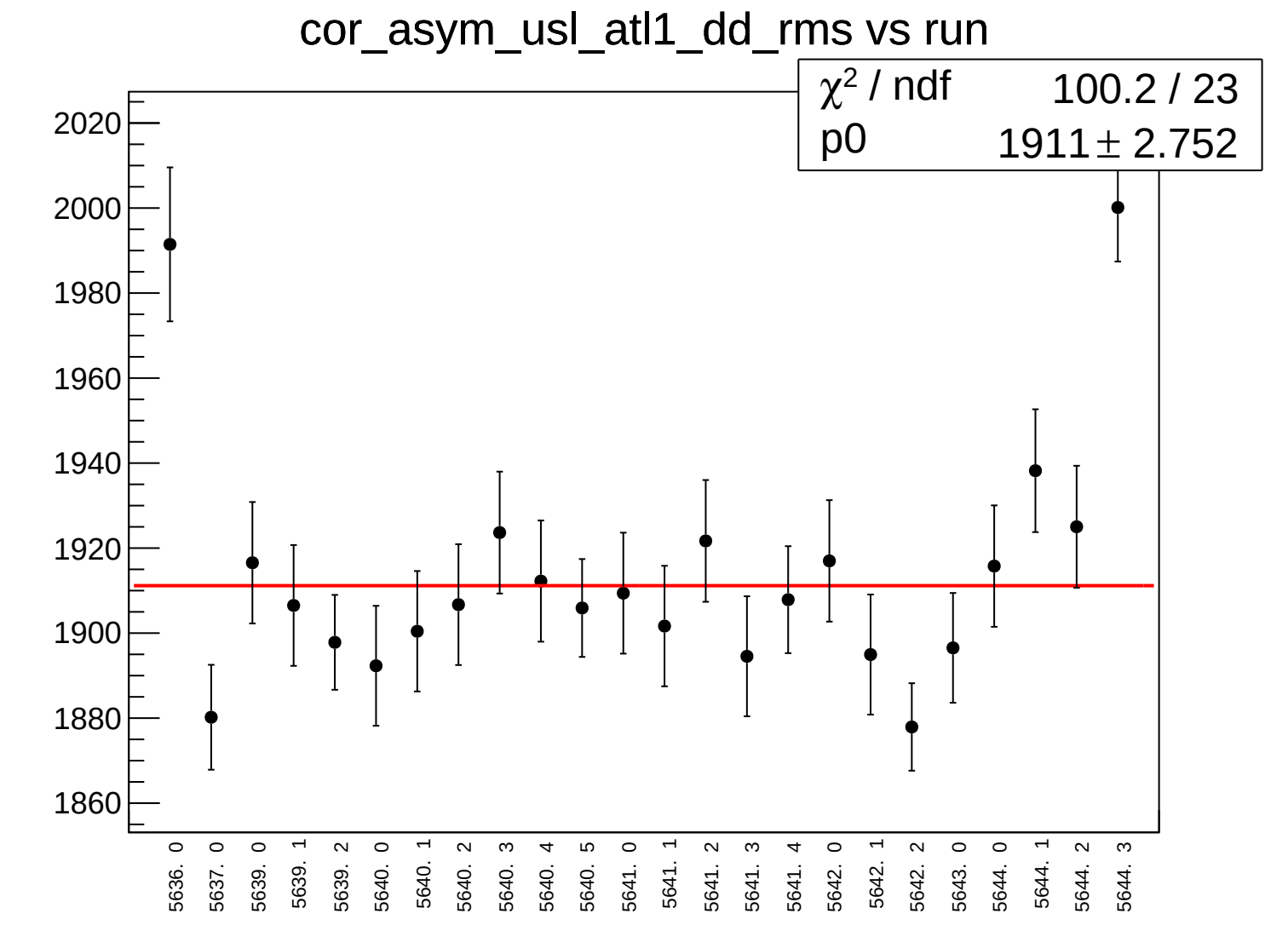

pull
Entries 24
Mean −23.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

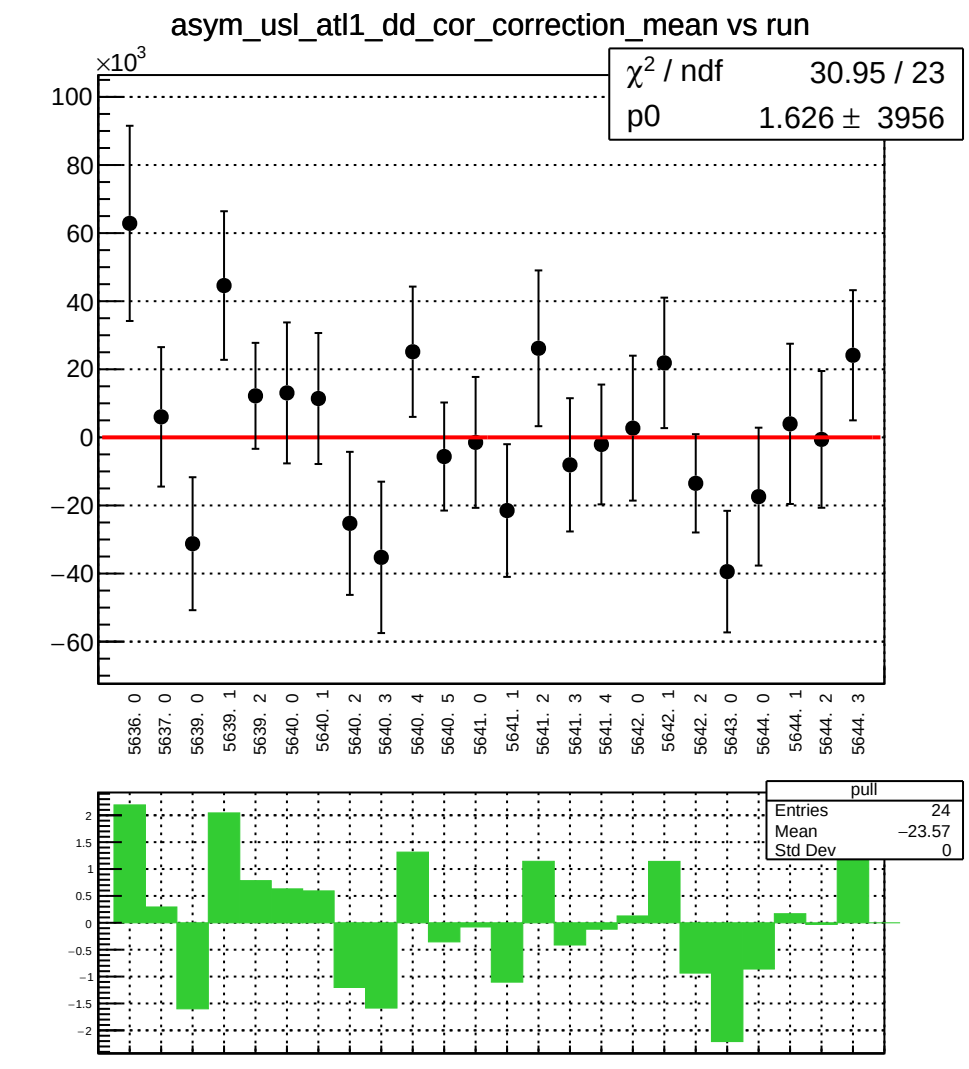

pull1D
Entries 24
Mean 0.05044
Std Dev 1.134
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

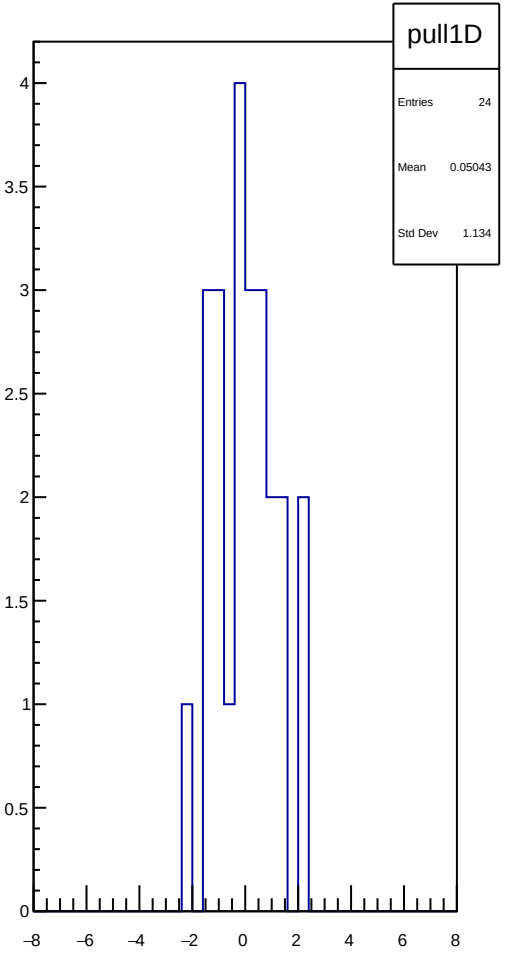

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 2125 / 23
p0 1938 ± 2.797
2200
2100
2000
1900
1800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

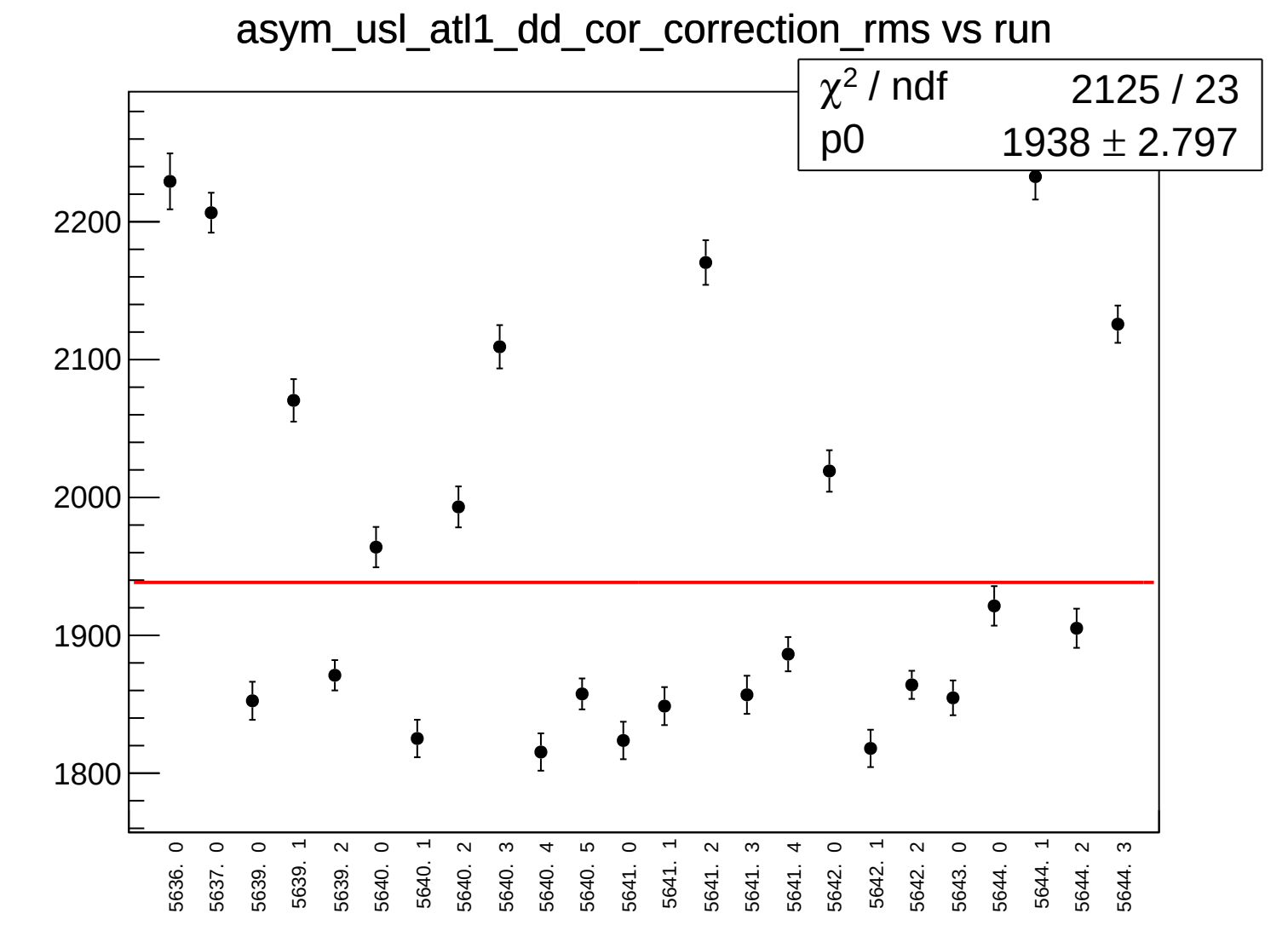

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 24.54 / 23
p0 1604 ± 3892
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −34.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

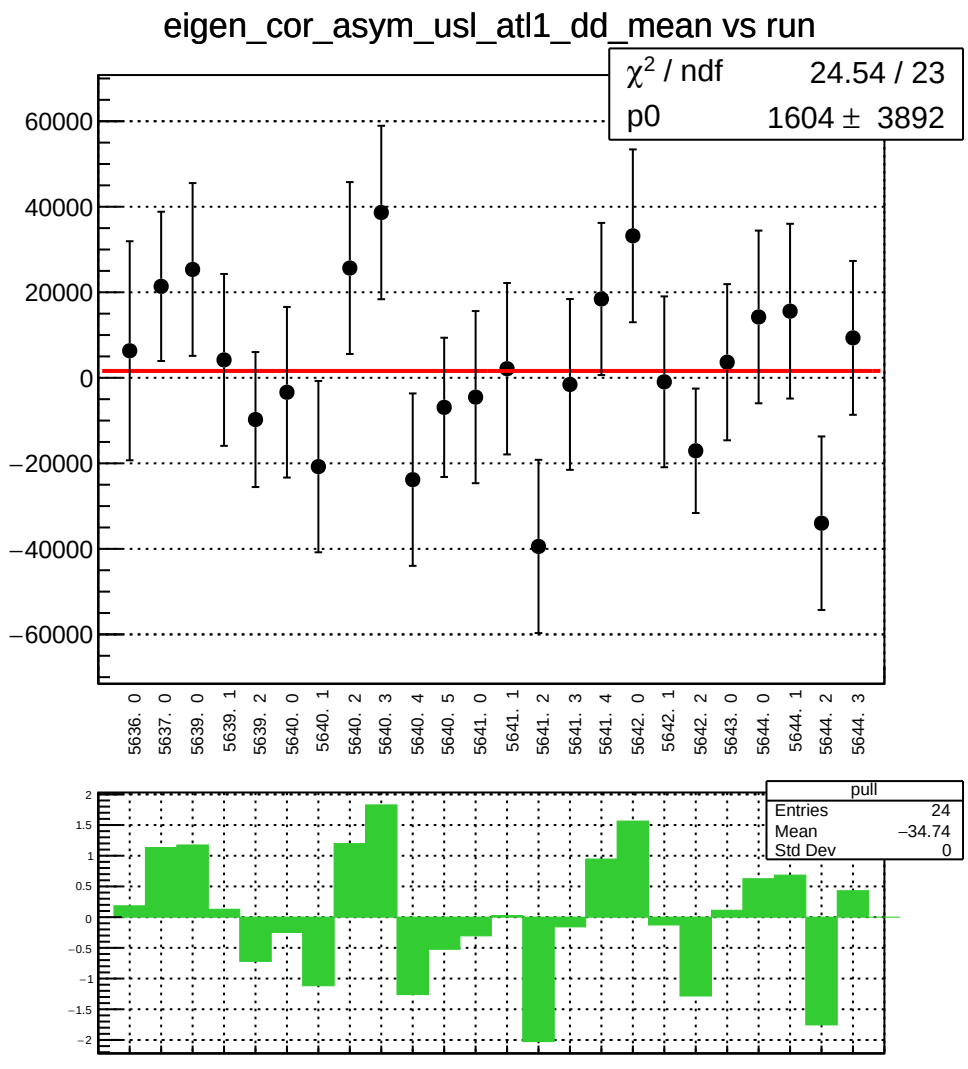

pull1D
Entries 24
Mean 0.02117
Std Dev 1.011
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

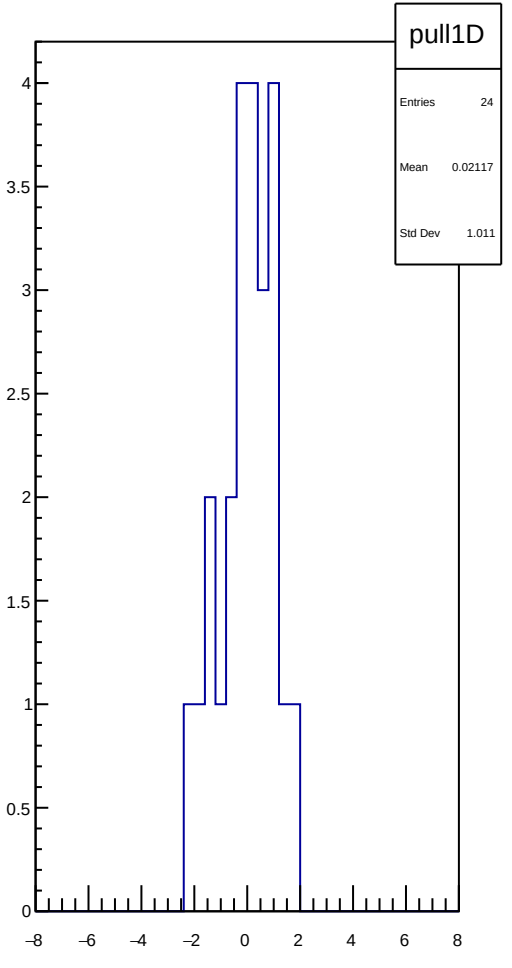

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 100.2 / 23
p0 1911 ± 2.752
2020
2000
1980
1960
1940
1920
1900
1880
1860
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

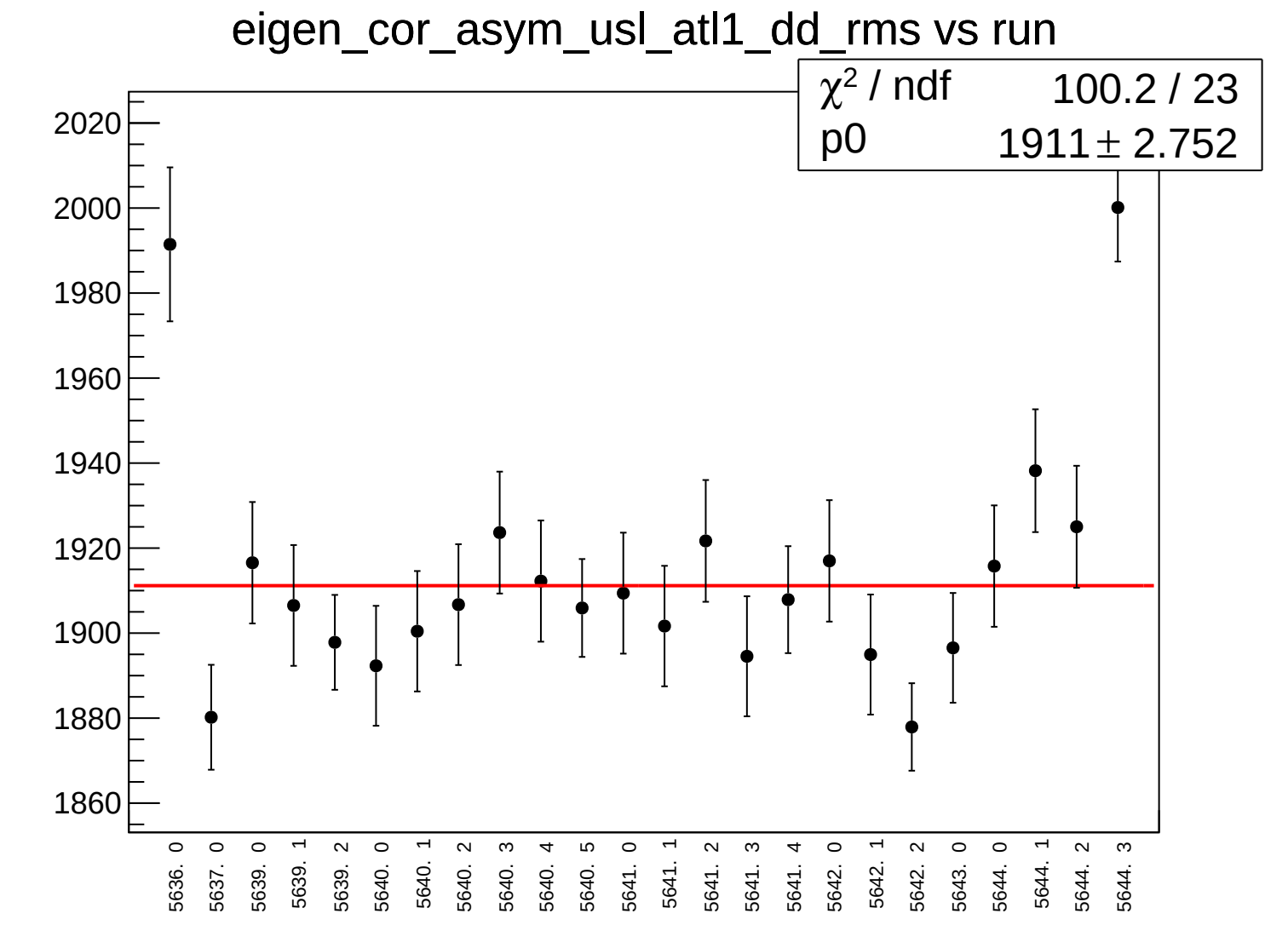

asym_usl_atl1_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 30.95 / 23
p0 1.626 ± 3956
100
80
60
40
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −23.57
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

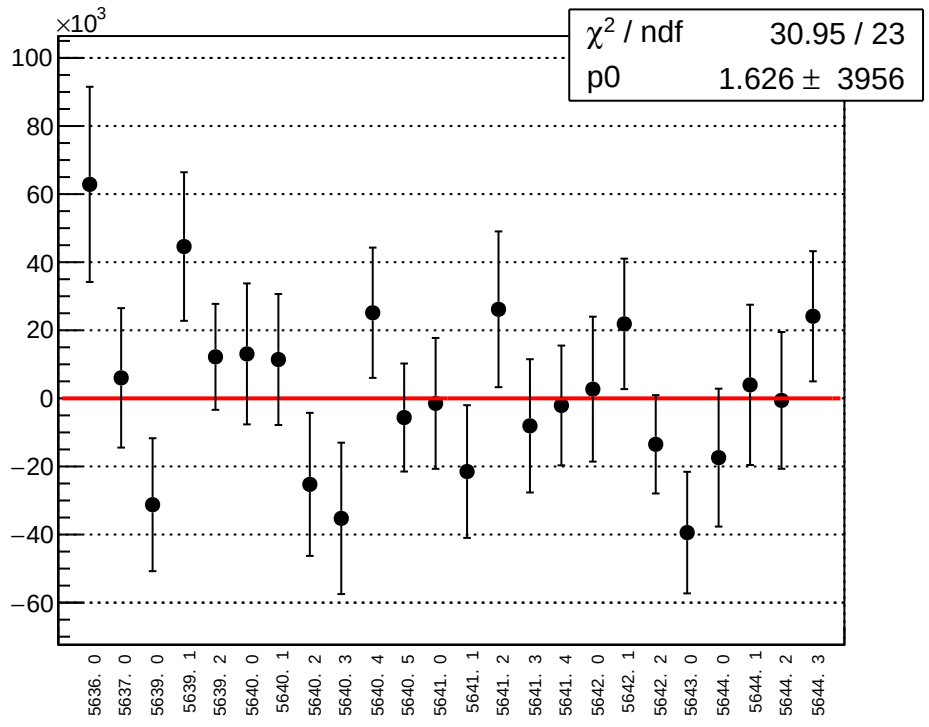

pull1D
Entries 24
Mean 0.05043
Std Dev 1.134
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

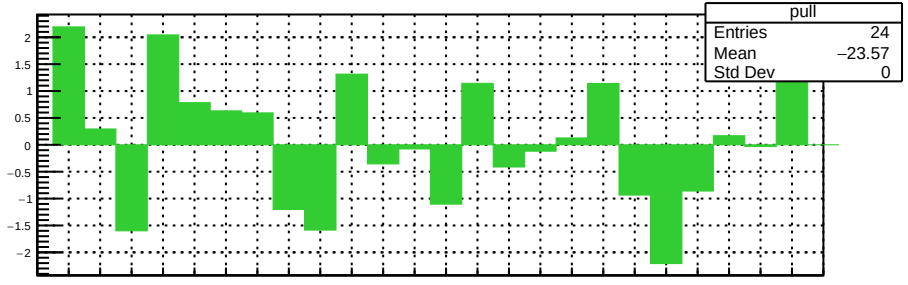

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 2125 / 23
p0 1938 ± 2.797
2200
2100
2000
1900
1800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

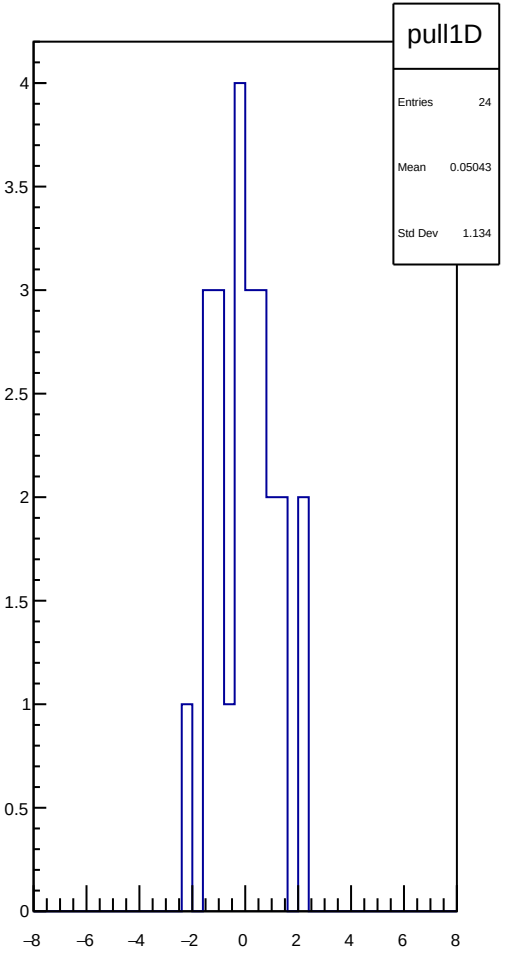

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 24.54 / 23
p0 1604 ± 3892
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −34.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

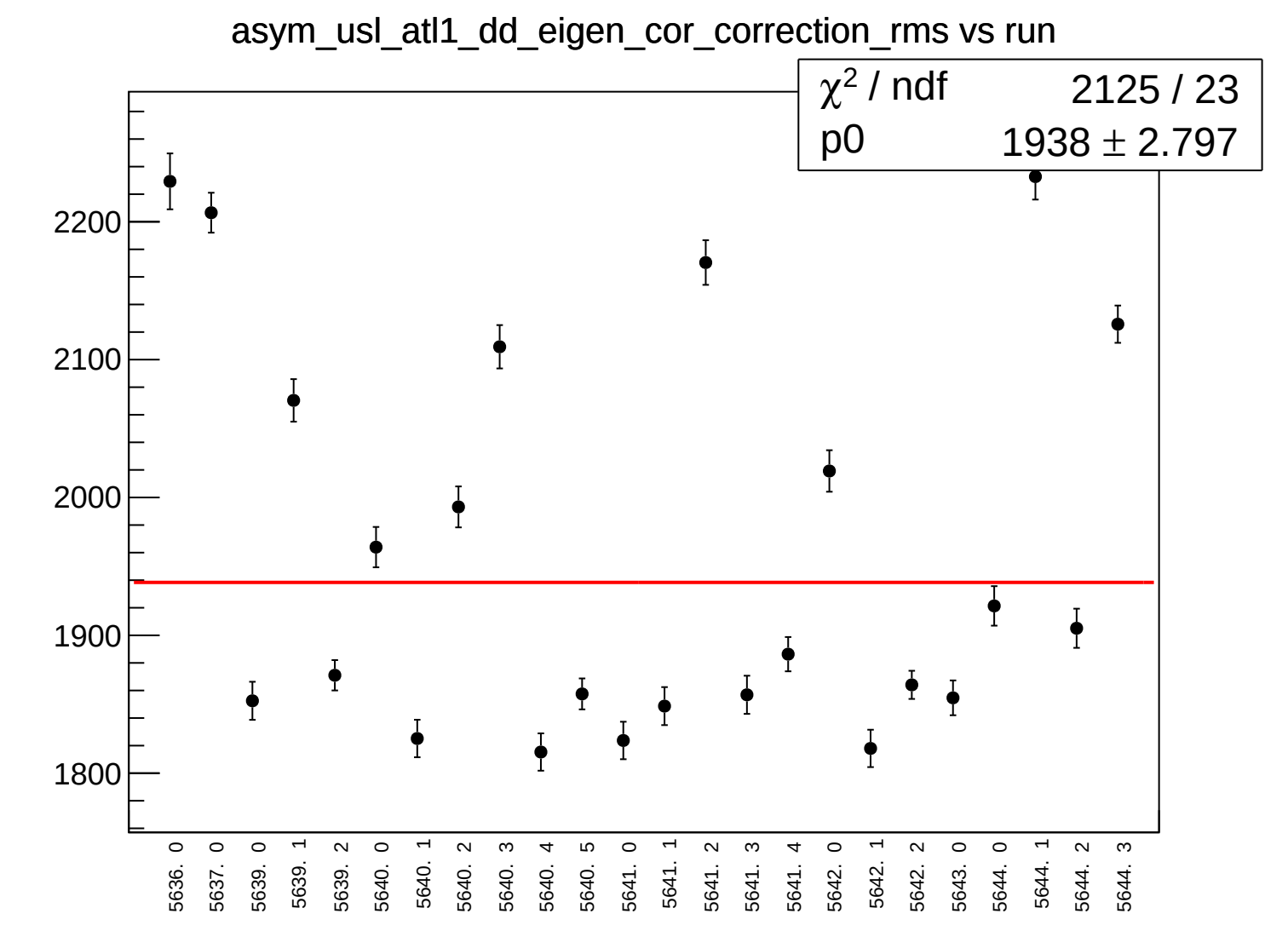

pull1D
Entries 24
Mean 0.02117
Std Dev 1.011
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

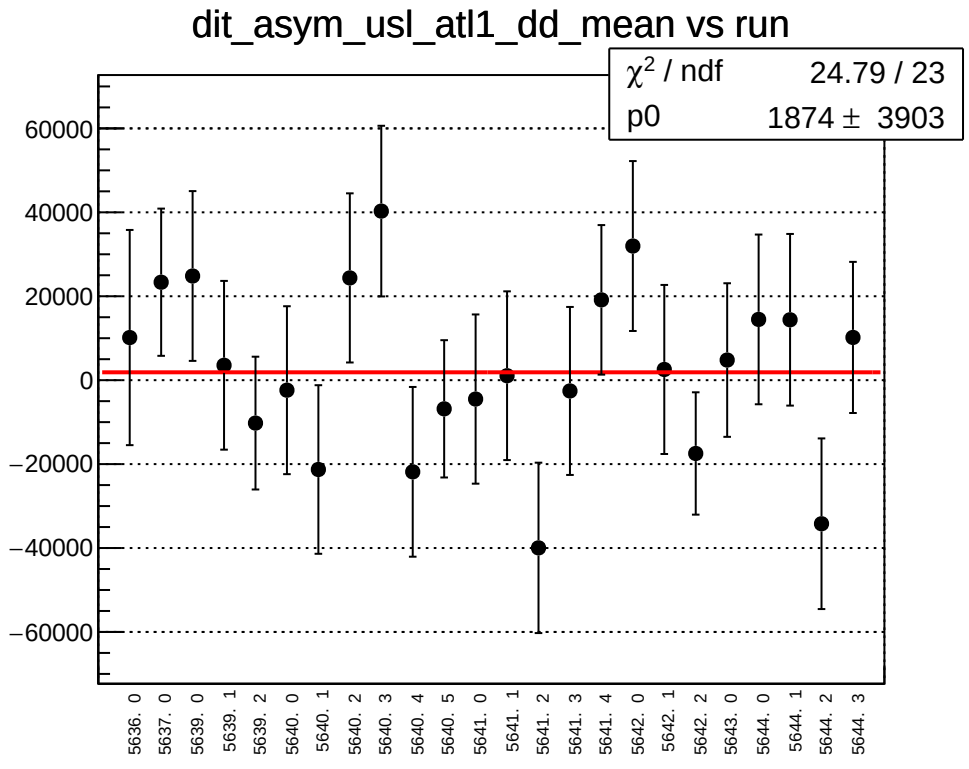

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 100.2 / 23
p0 1911 ± 2.752
2020
2000
1980
1960
1940
1920
1900
1880
1860
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

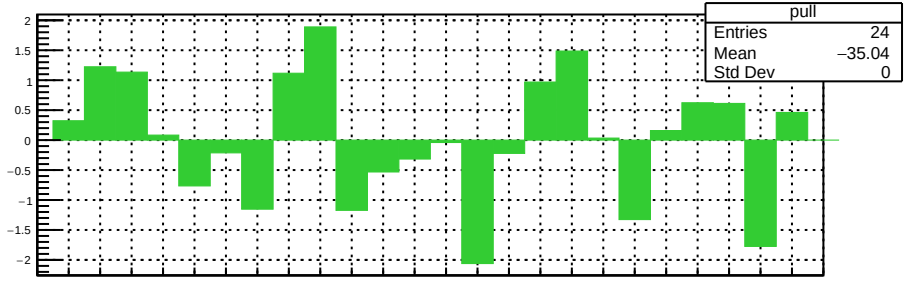

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 30.95 / 23
p0 1.626 ± 3956
100
80
60
40
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

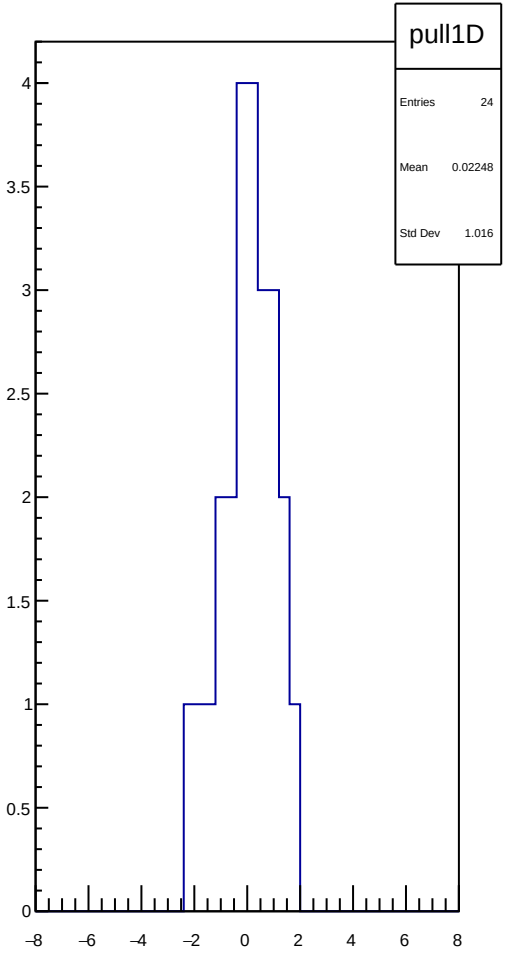

pull
Entries 24
Mean −23.57
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

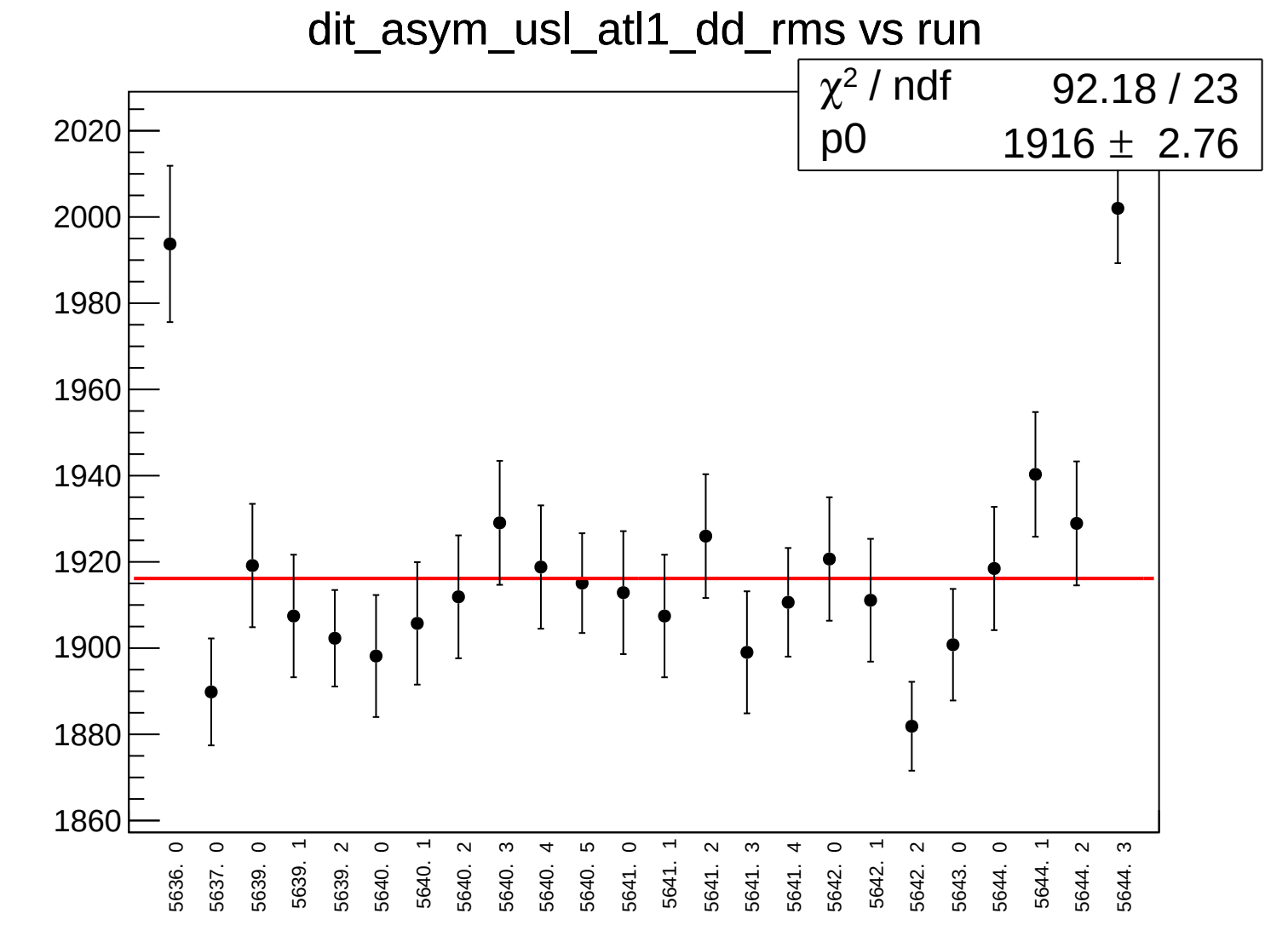

pull1D
Entries 24
Mean 0.05043
Std Dev 1.134
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

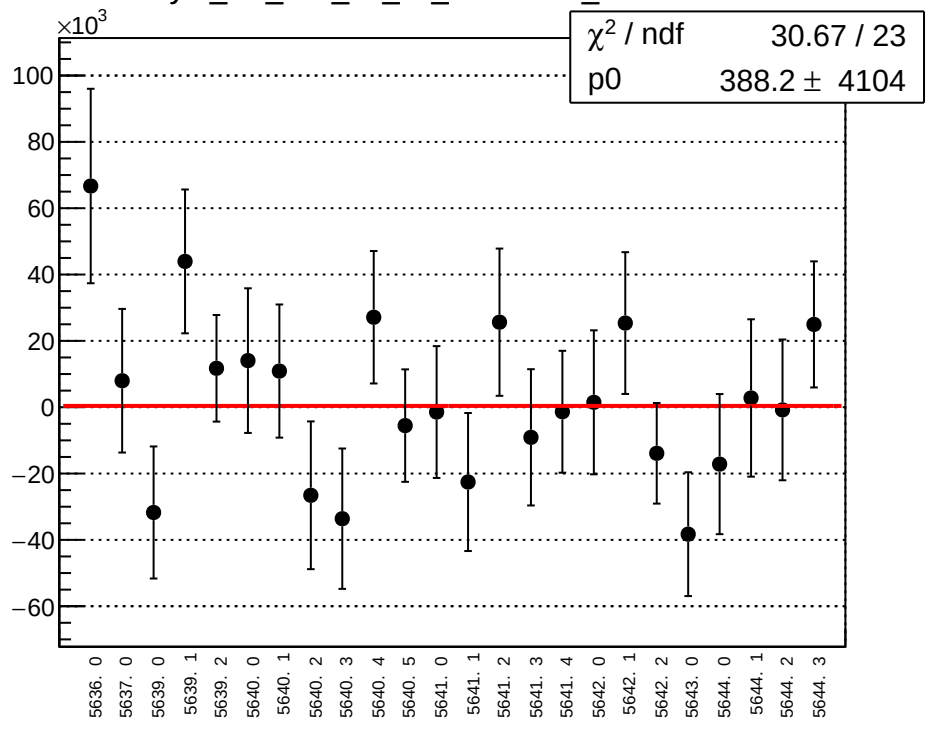

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 2125 / 23
p0 1938 ± 2.797
2200
2100
2000
1900
1800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

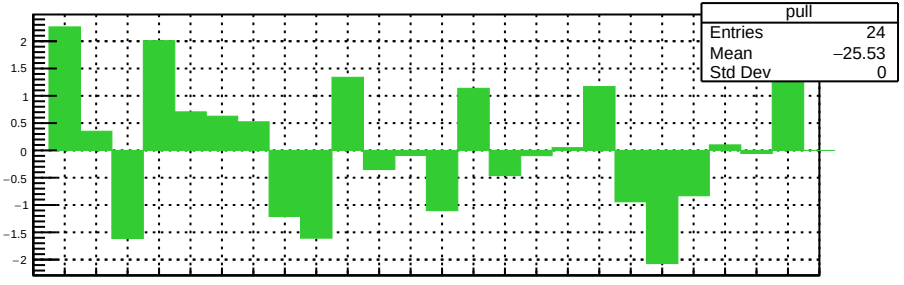

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 24.79 / 23
p0 1874 ± 3903
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

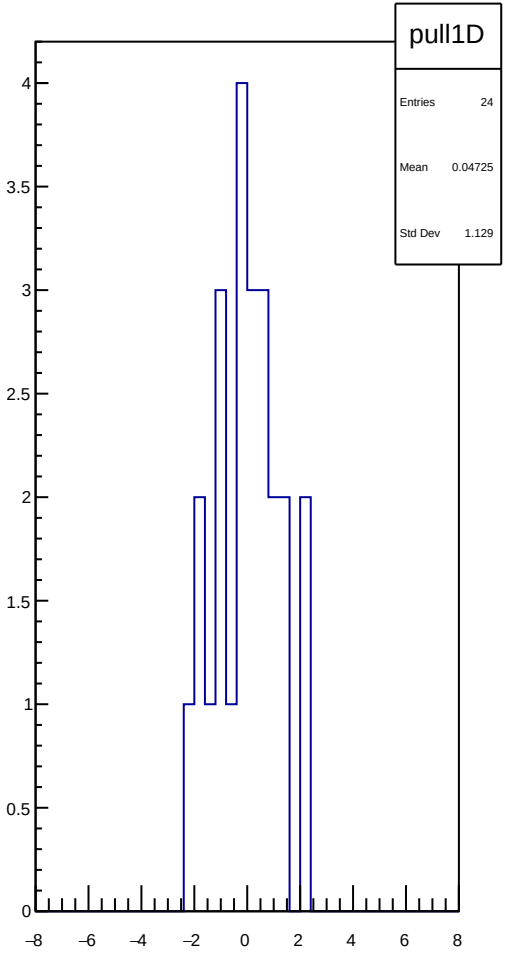

pull
Entries 24
Mean −35.04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

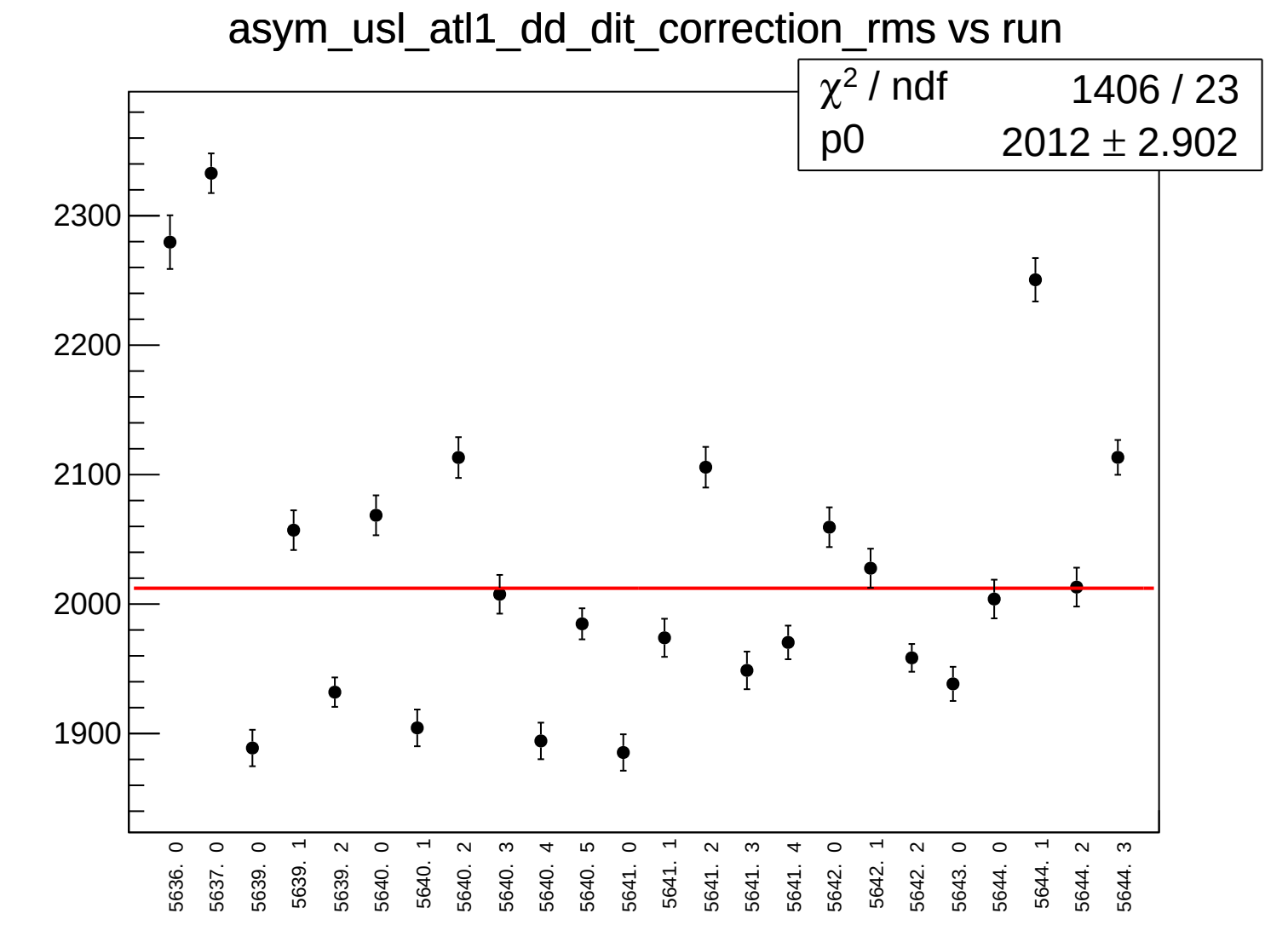

pull1D
Entries 24
Mean 0.02248
Std Dev 1.016
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

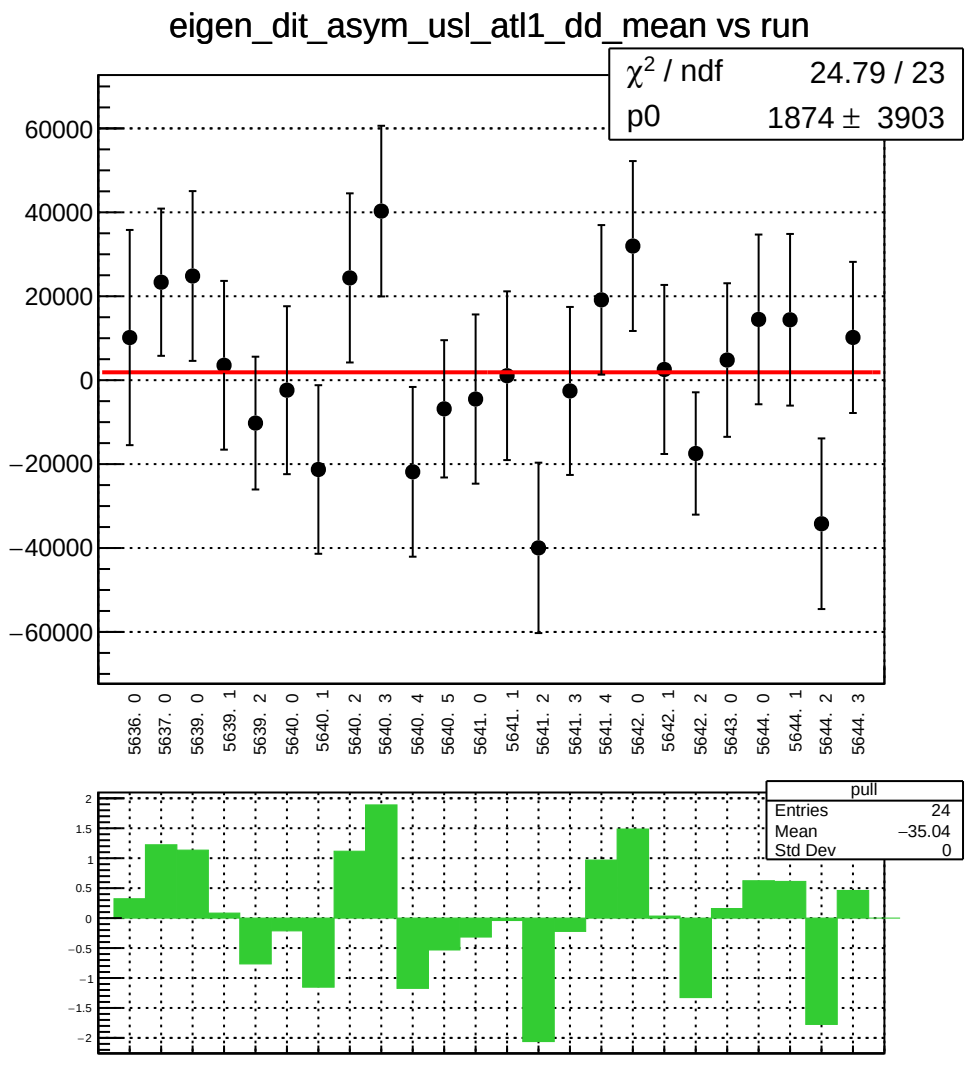

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 92.18 / 23
p0 1916 ± 2.76
2020
2000
1980
1960
1940
1920
1900
1880
1860
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

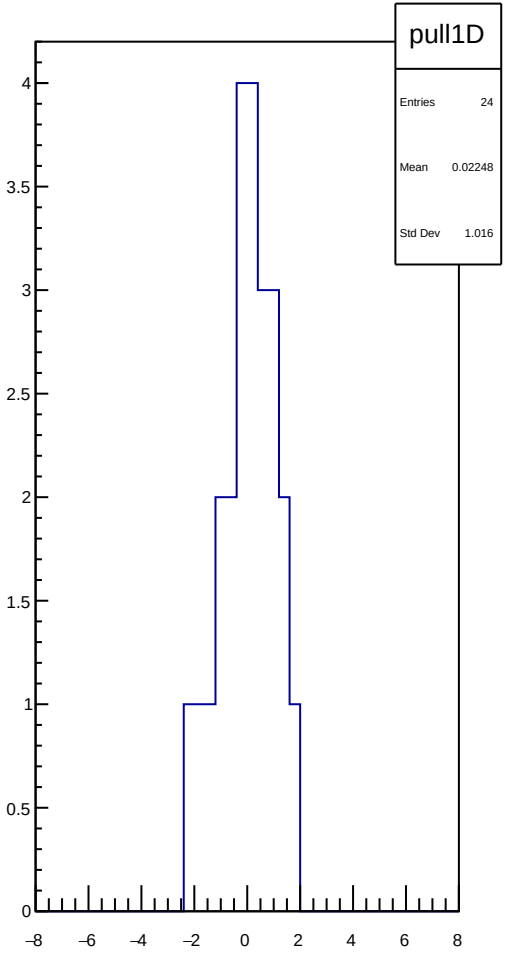

asym_usl_atl1_dd_dit_correction_mean vs run
×10^3
χ² / ndf 30.67 / 23
p0 388.2 ± 4104
100
80
60
40
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

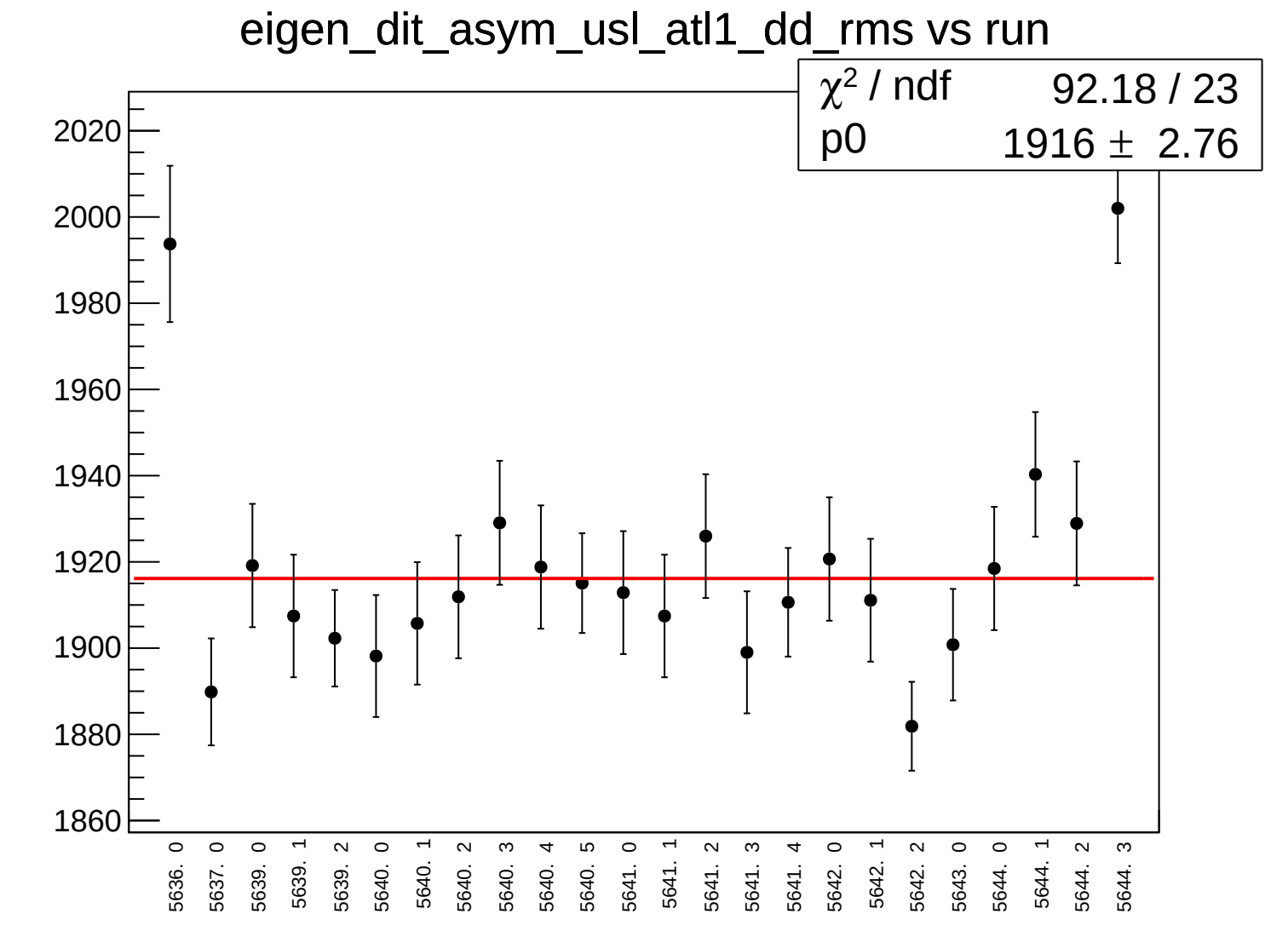

pull
Entries 24
Mean −25.53
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

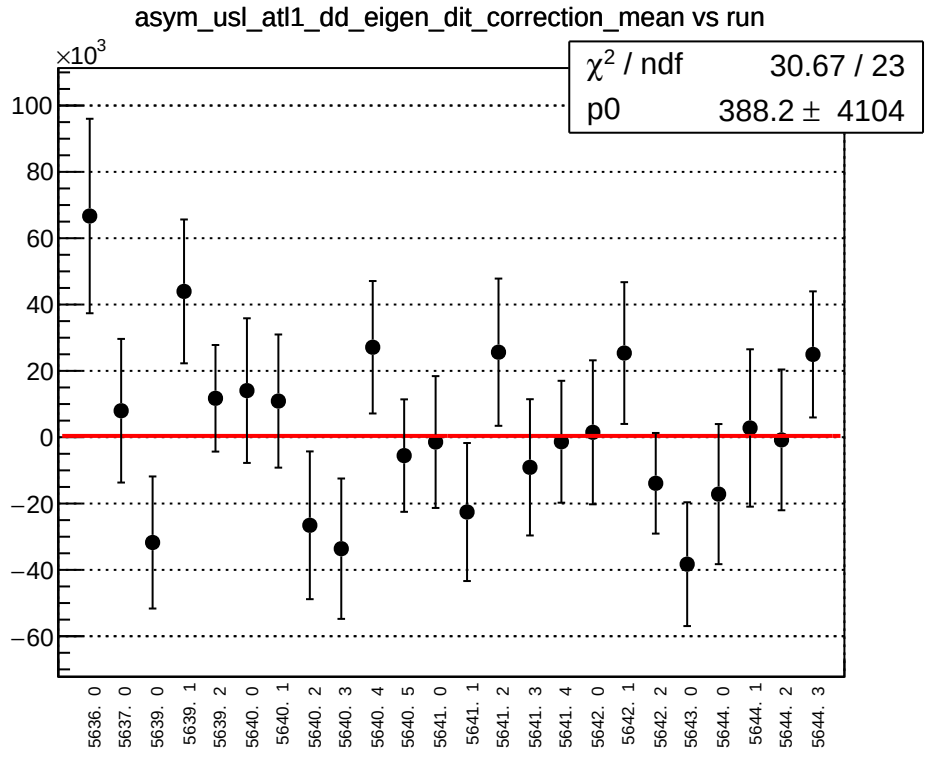

pull1D
Entries 24
Mean 0.04725
Std Dev 1.129
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

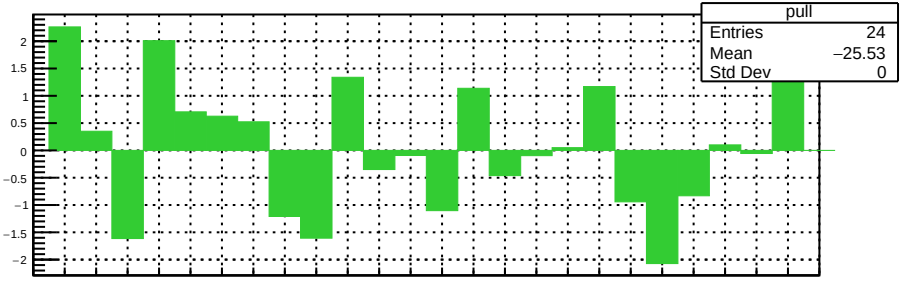

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 1406 / 23
p0 2012 ± 2.902
2300
2200
2100
2000
1900
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

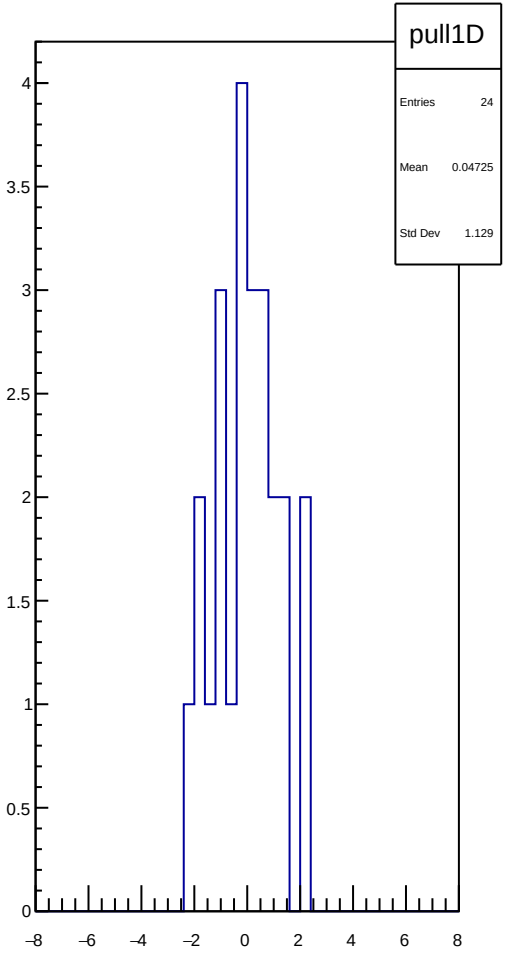

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 24.79 / 23
p0 1874 ± 3903
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −35.04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

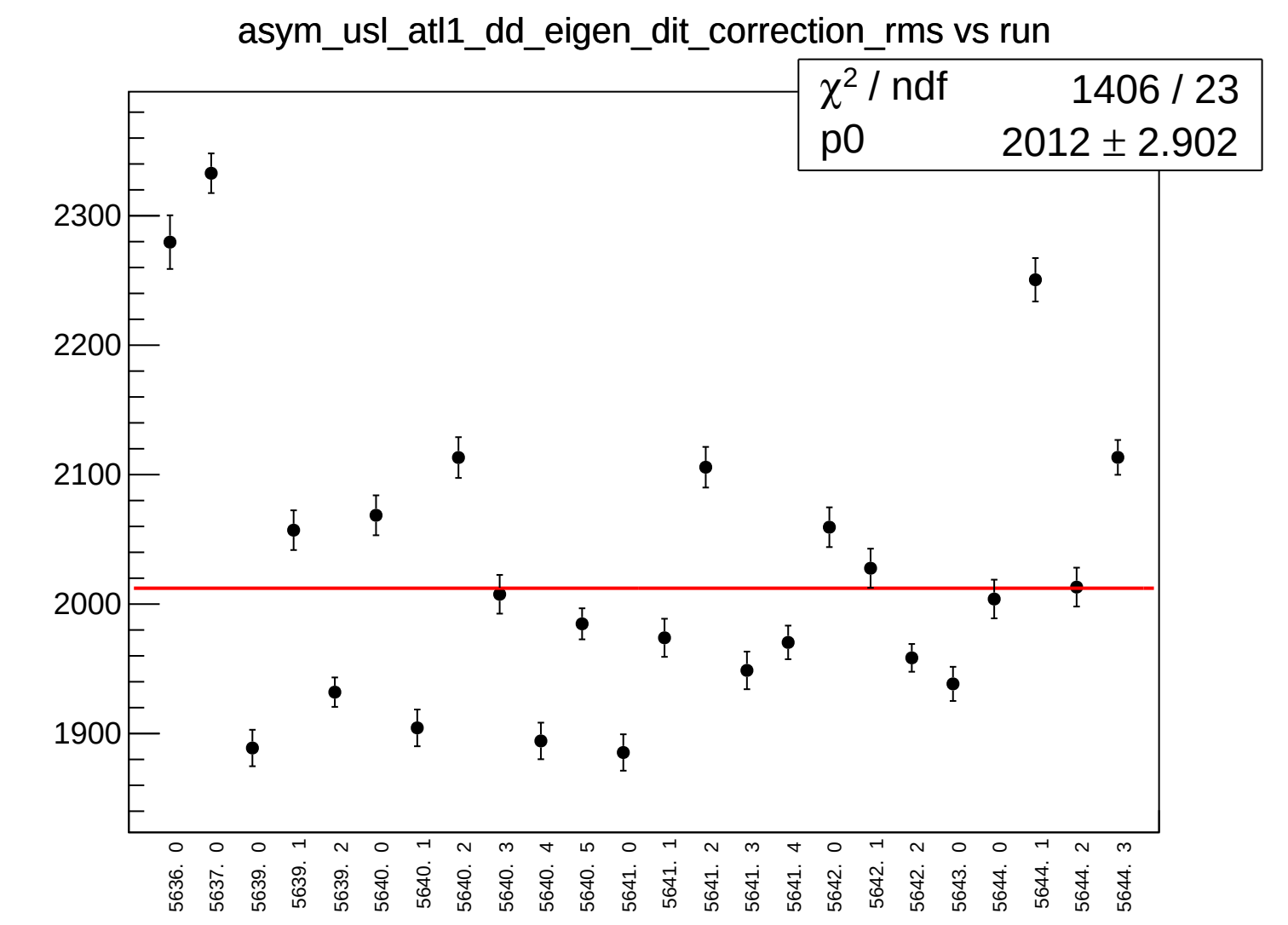

pull1D
Entries 24
Mean 0.02248
Std Dev 1.016
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

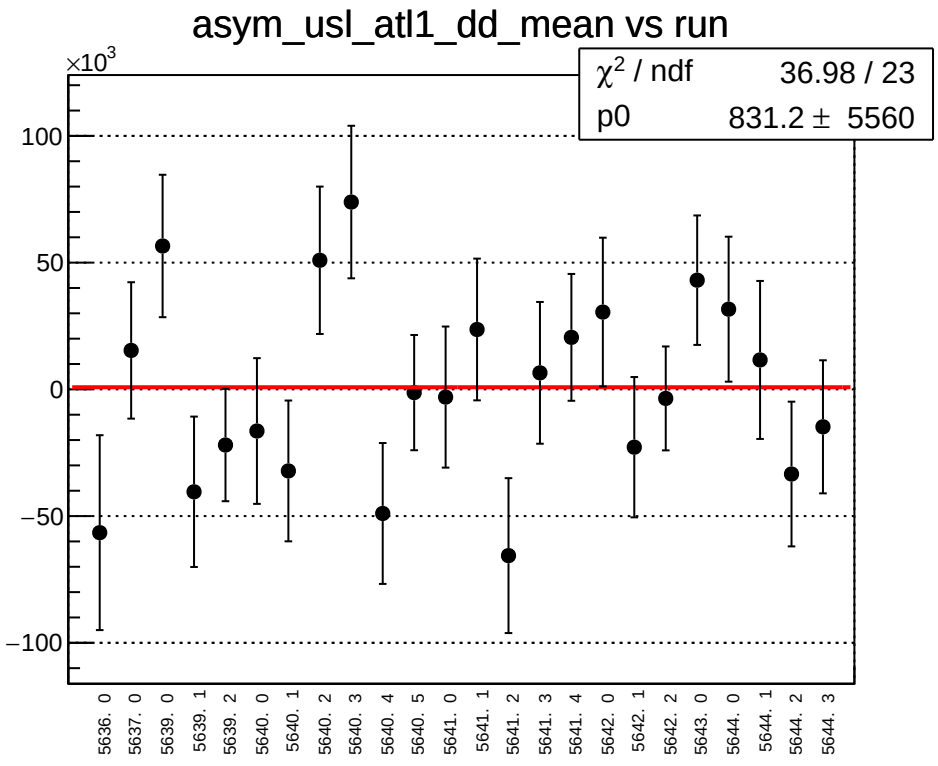

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 92.18 / 23
p0 1916 ± 2.76
2020
2000
1980
1960
1940
1920
1900
1880
1860
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

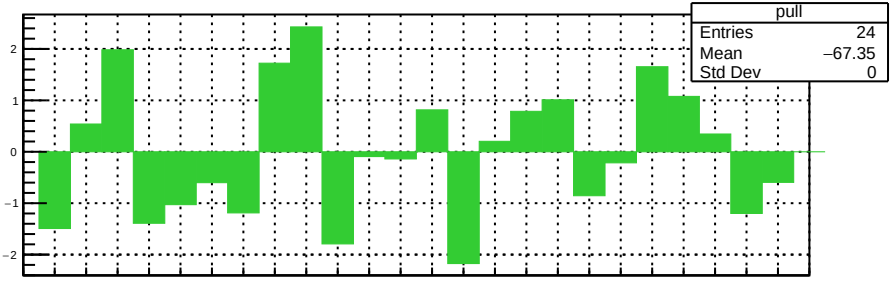

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 30.67 / 23
p0 388.2 ± 4104
100
80
60
40
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

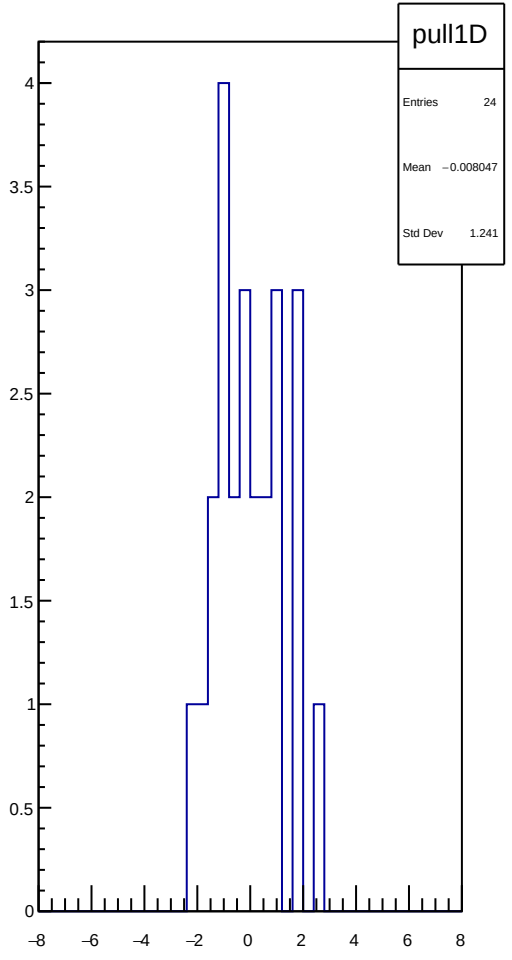

pull
Entries 24
Mean −25.53
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

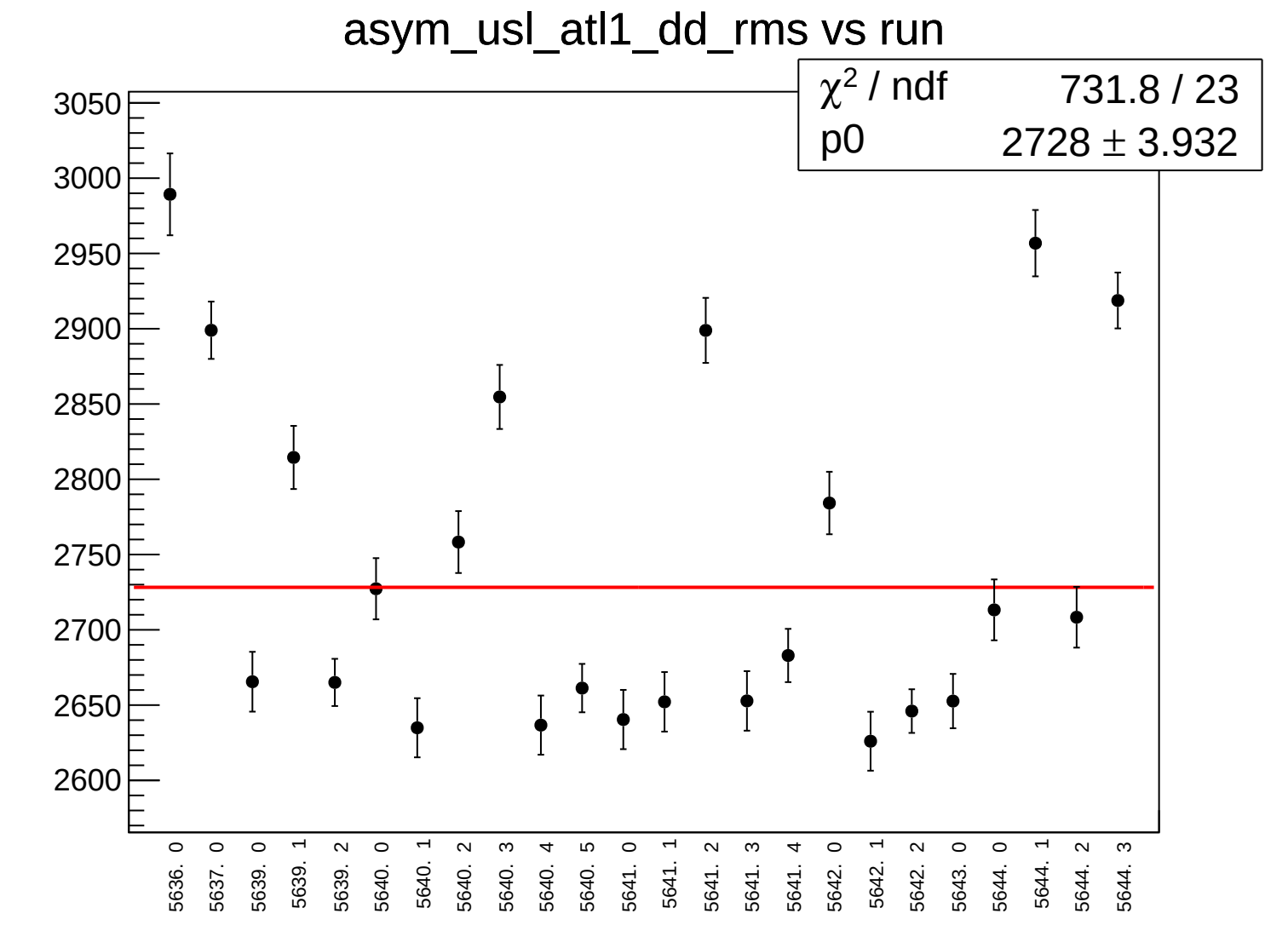

pull1D
Entries 24
Mean 0.04725
Std Dev 1.129
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

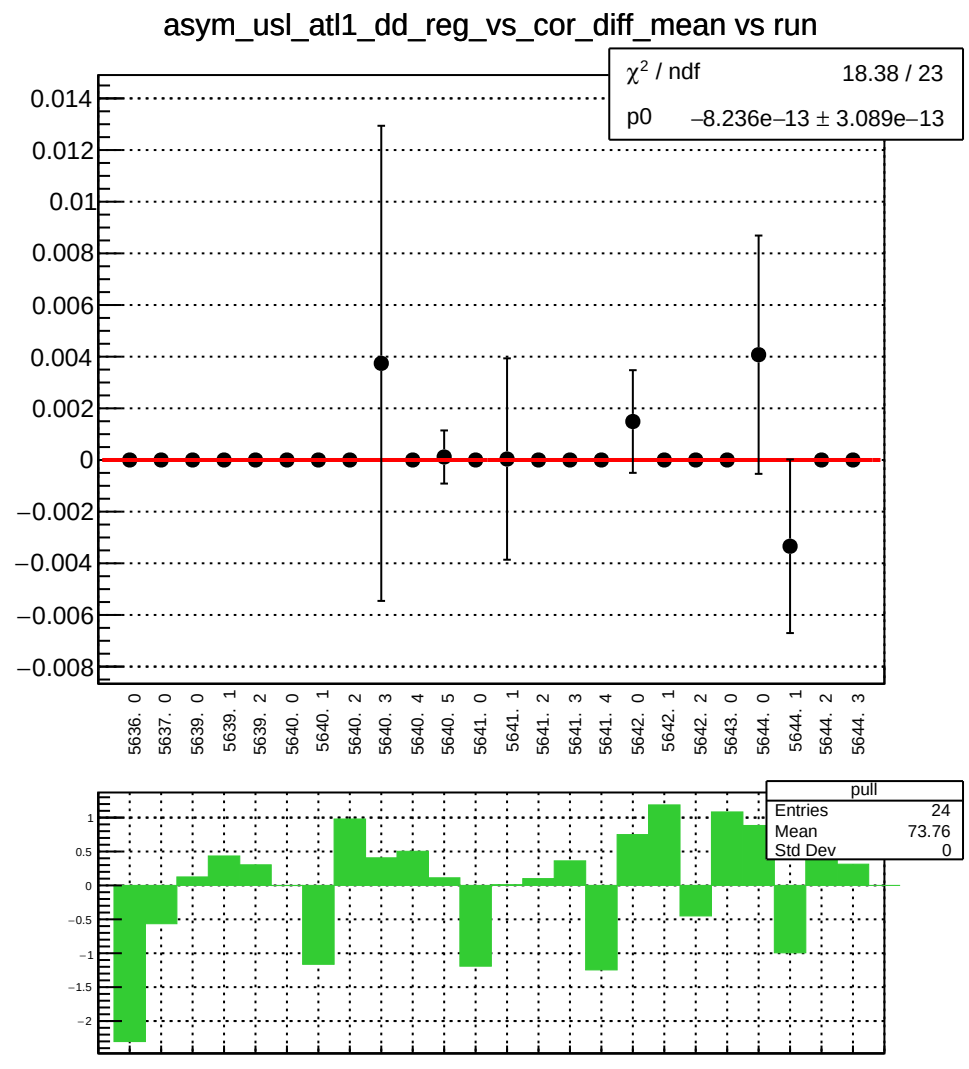

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1406 / 23
p0 2012 ± 2.902
2300
2200
2100
2000
1900
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

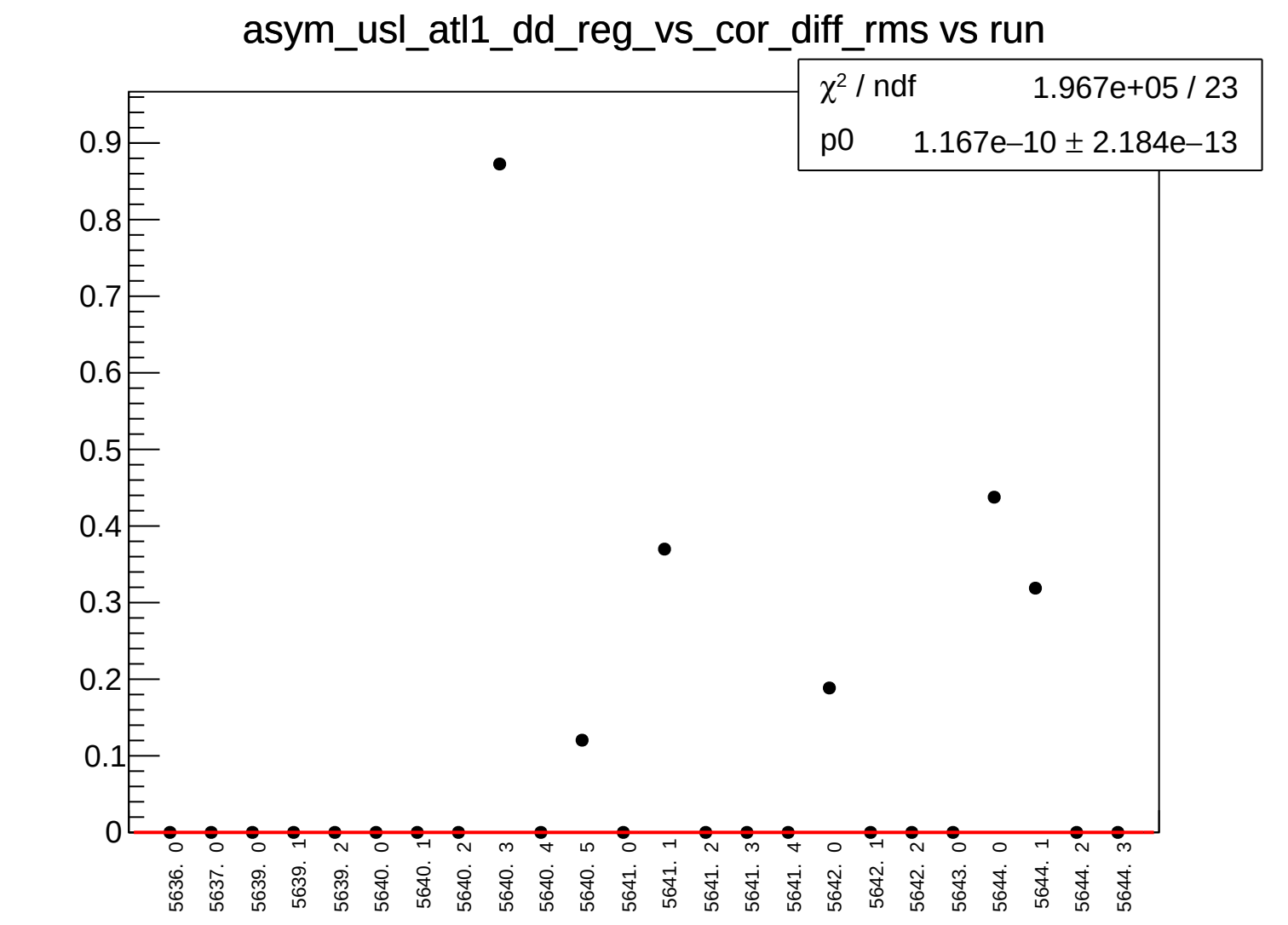

asym_usl_atl1_dd_mean vs run
×10^3
χ^2 / ndf 36.98 / 23
p0 831.2 ± 5560
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

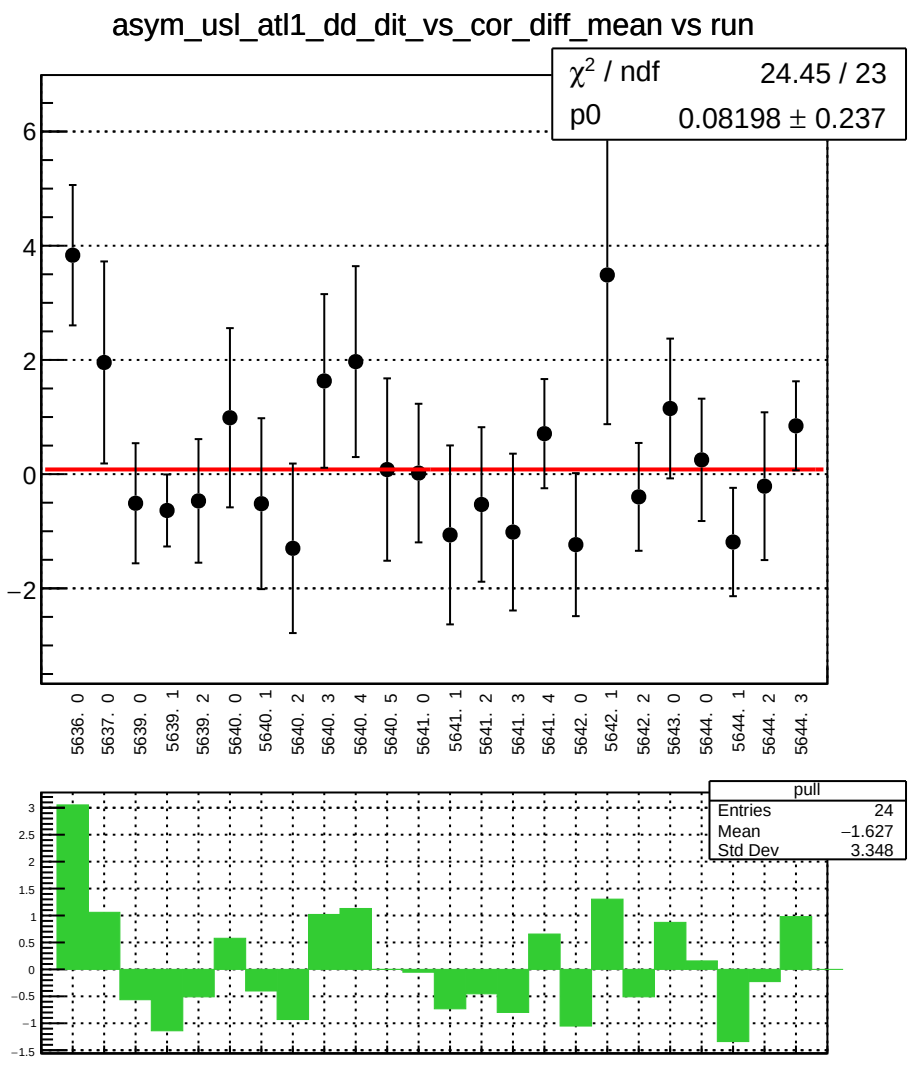

pull
Entries 24
Mean −67.35
Std Dev 0
2
1
0
−1
−2

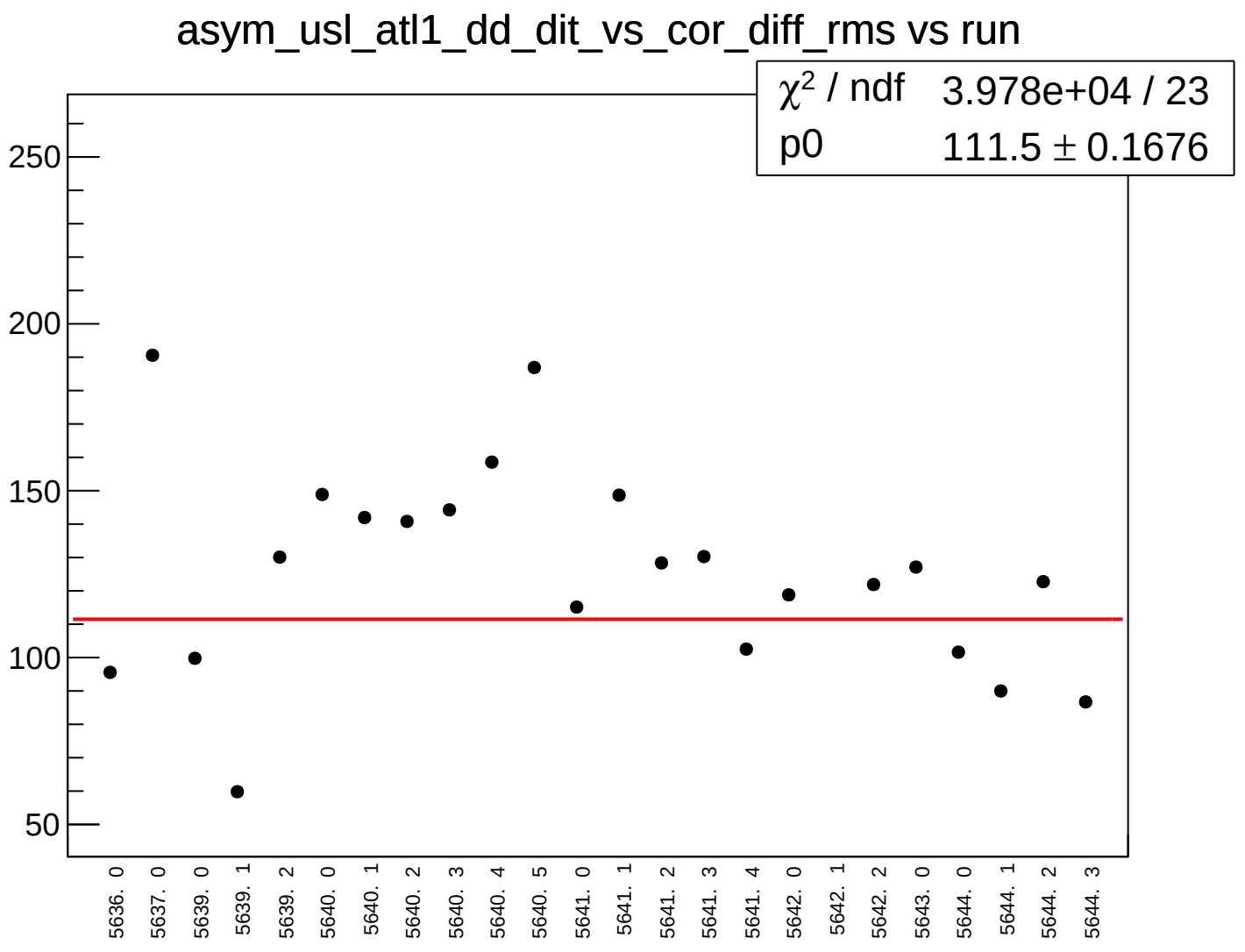

pull1D
Entries 24
Mean −0.008047
Std Dev 1.241
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

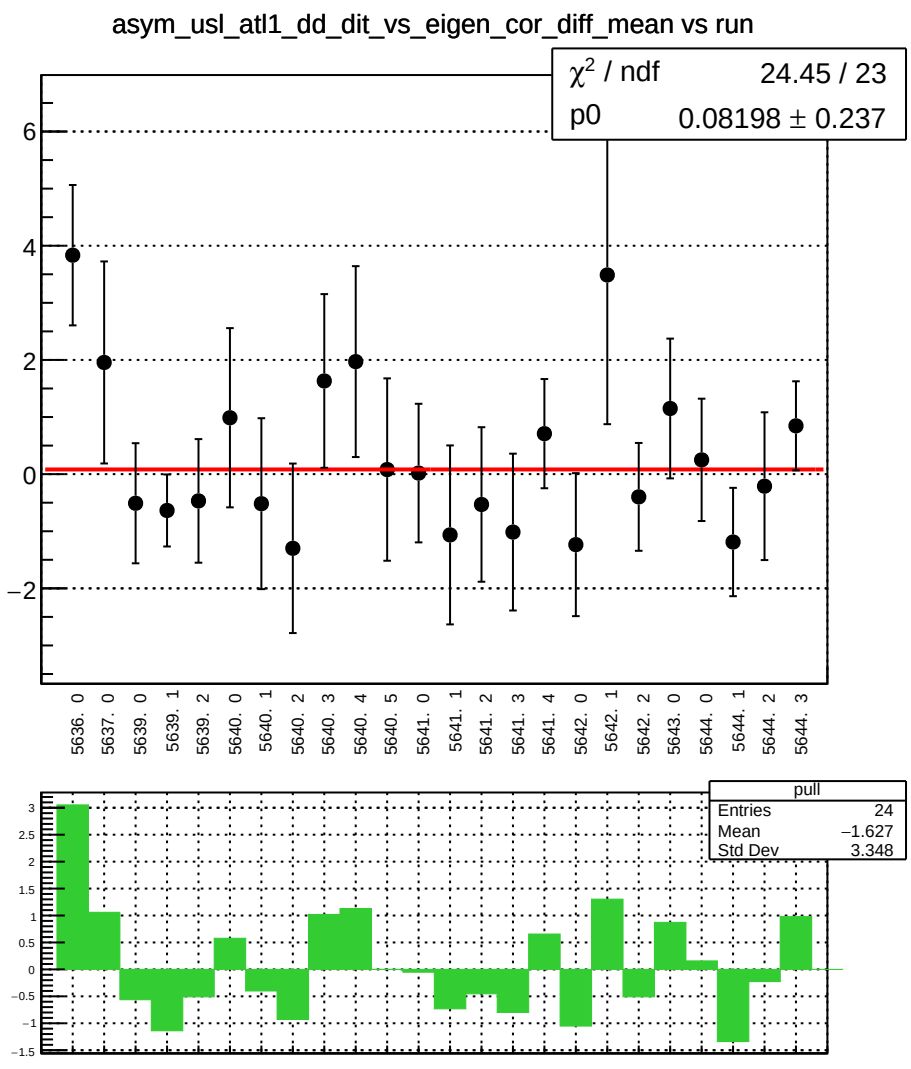

asym_usl_atl1_dd_rms vs run
χ² / ndf 731.8 / 23
p0 2728 ± 3.932
3050
3000
2950
2900
2850
2800
2750
2700
2650
2600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

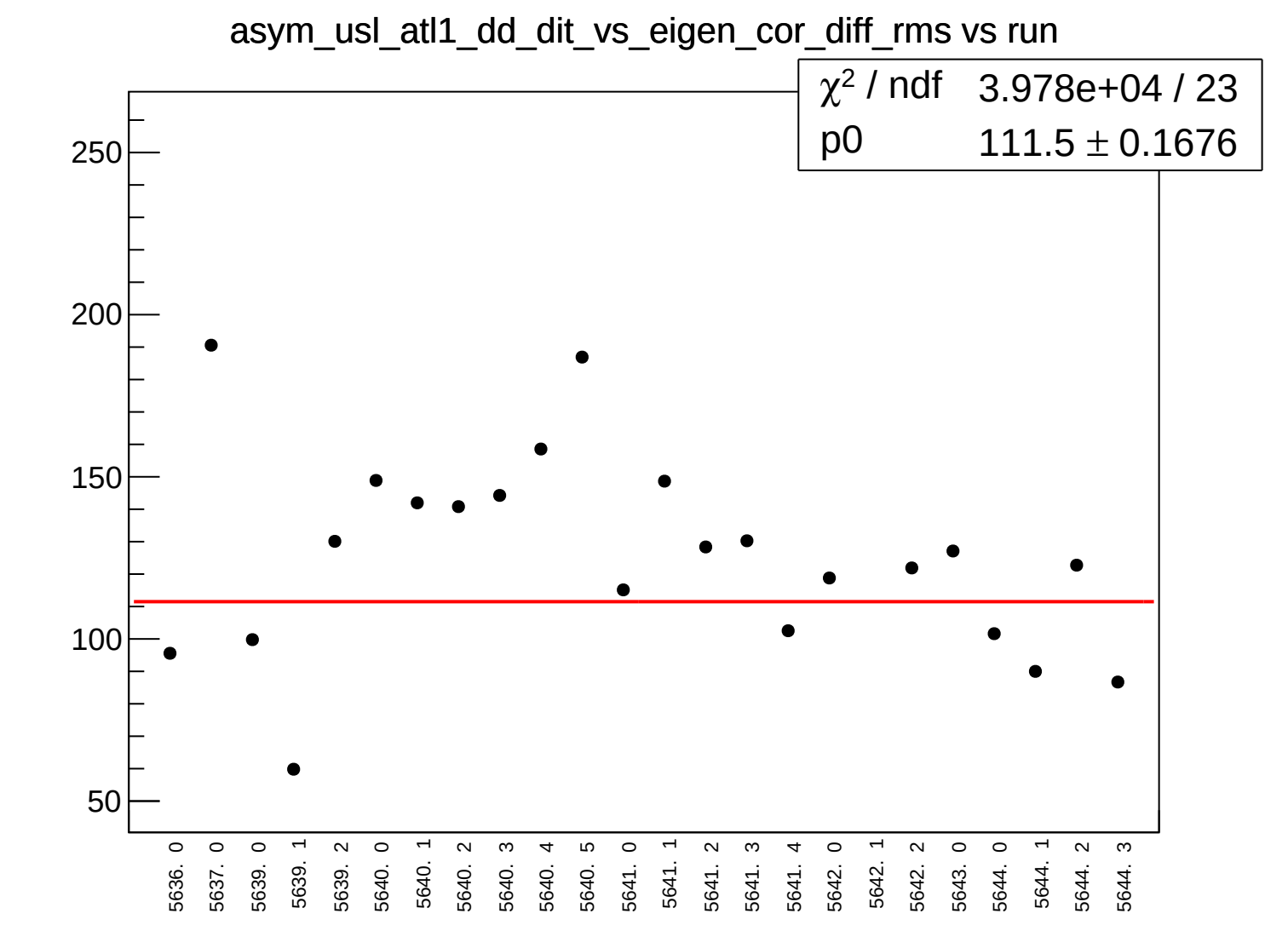

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 18.38 / 23
p0 −8.236e−13 ± 3.089e−13
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 73.76
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.03433
Std Dev 0.8745
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

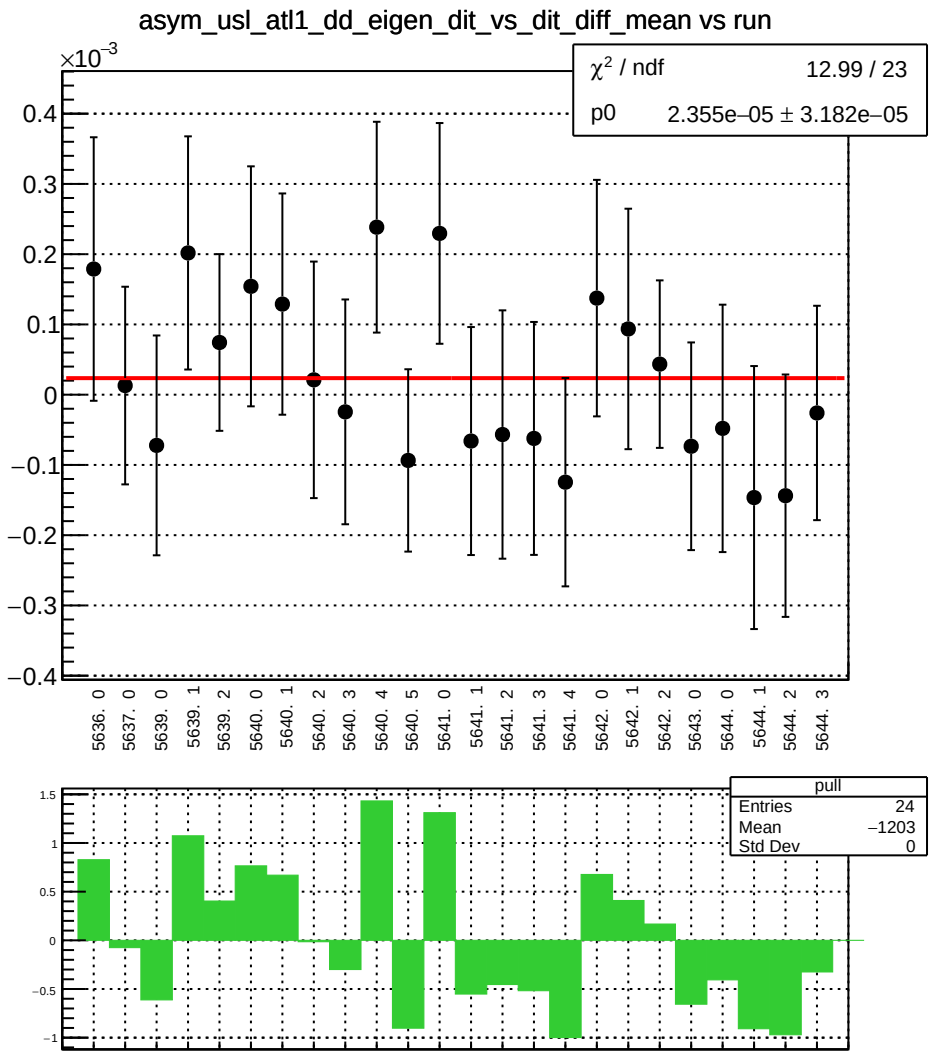

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.967e+05 / 23
p0 1.167e−10 ± 2.184e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

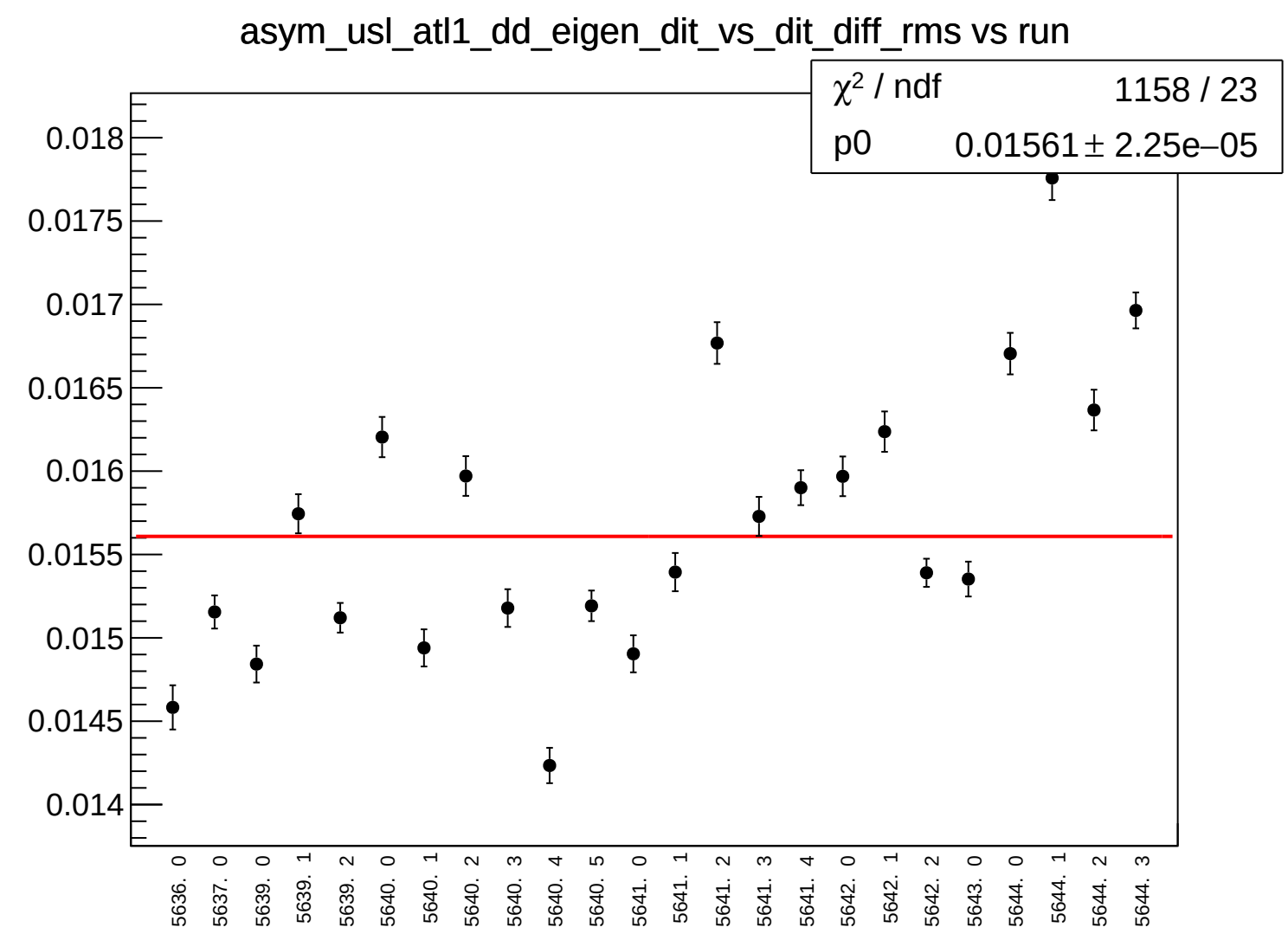

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 24.45 / 23
p0 0.08198 ± 0.237
6
4
2
0
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −1.627
Std Dev 3.348
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.0877
Std Dev 1.006
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

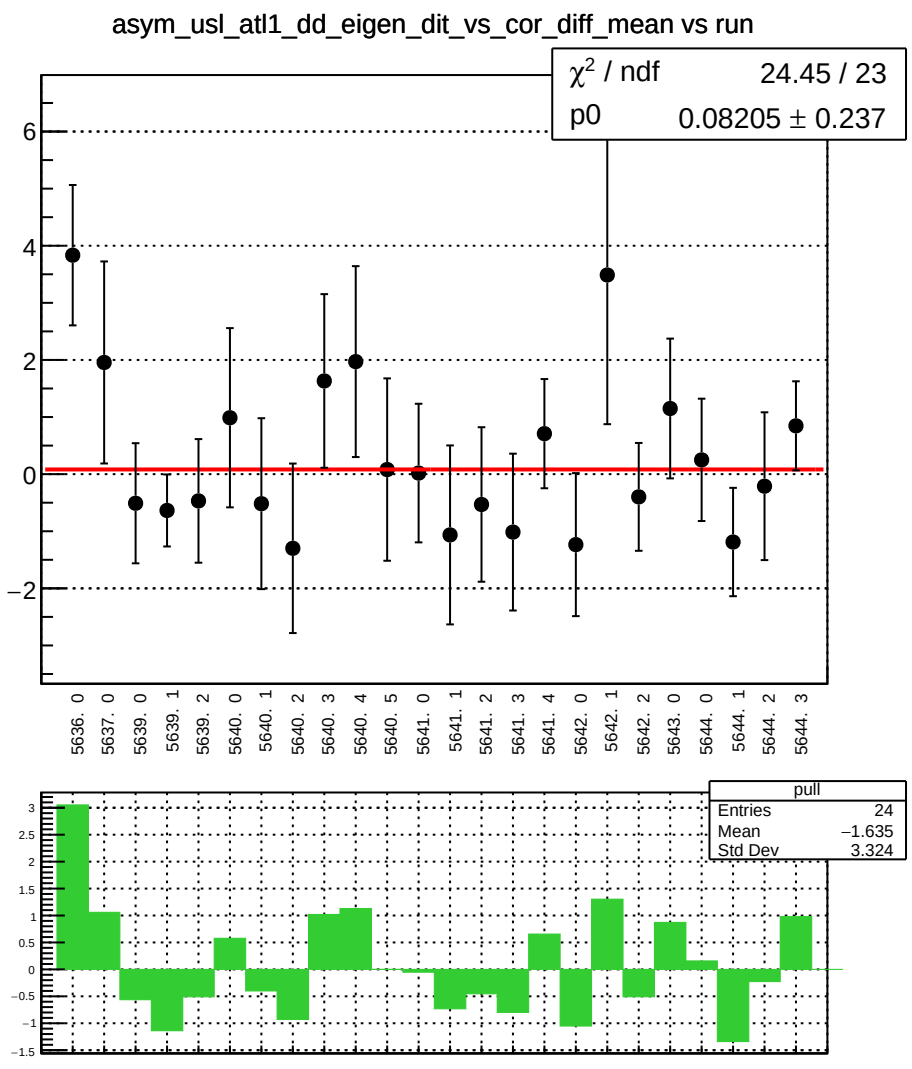

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.978e+04 / 23
p0 111.5 ± 0.1676
250
200
150
100
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

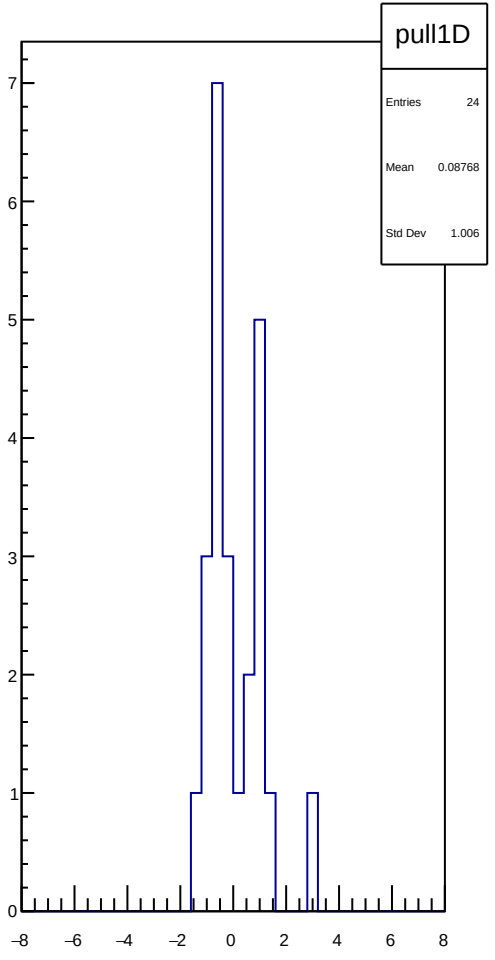

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.45 / 23
p0 0.08198 ± 0.237
6
4
2
0
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −1.627
Std Dev 3.348
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.0877
Std Dev 1.006
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

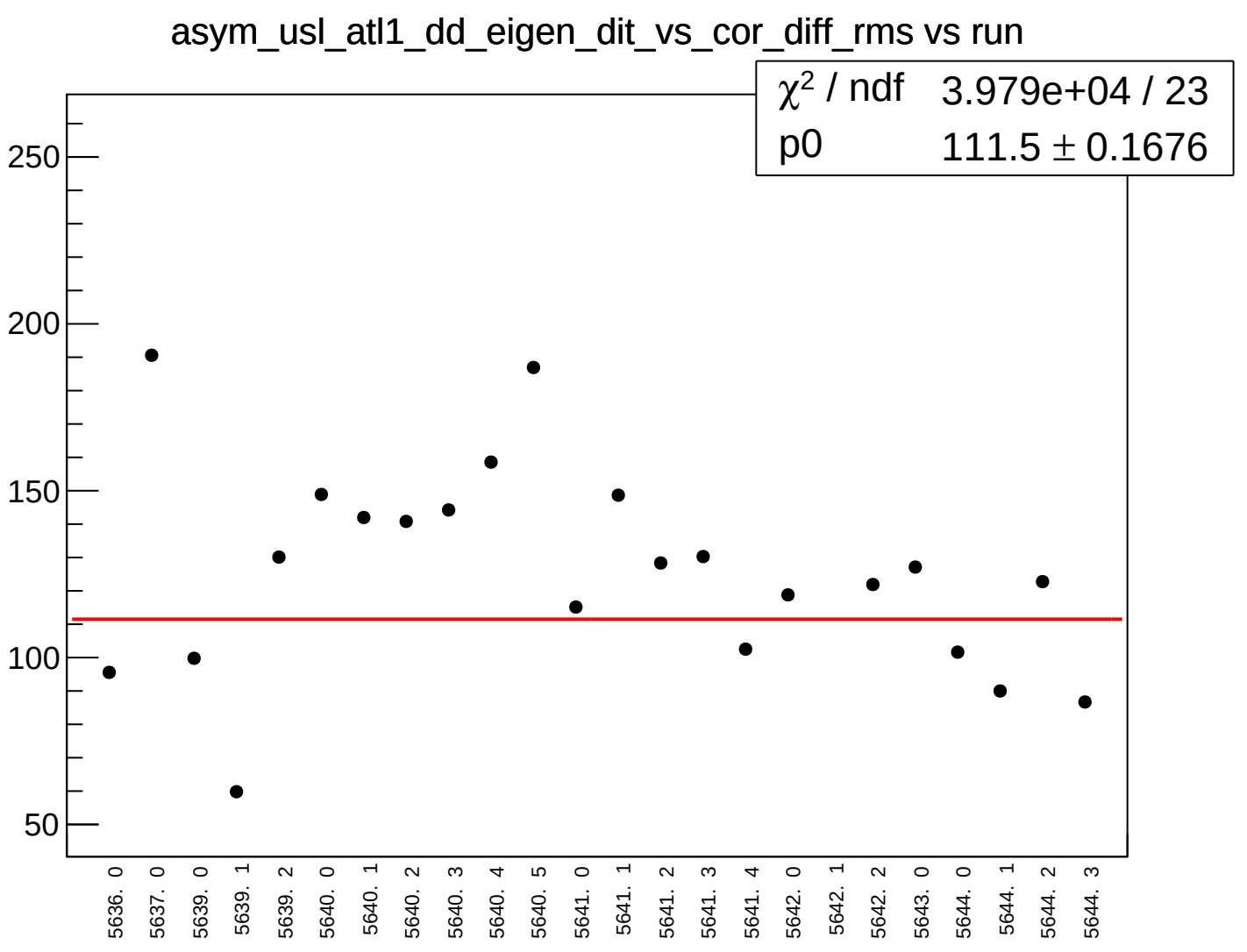

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.978e+04 / 23
p0 111.5 ± 0.1676
250
200
150
100
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

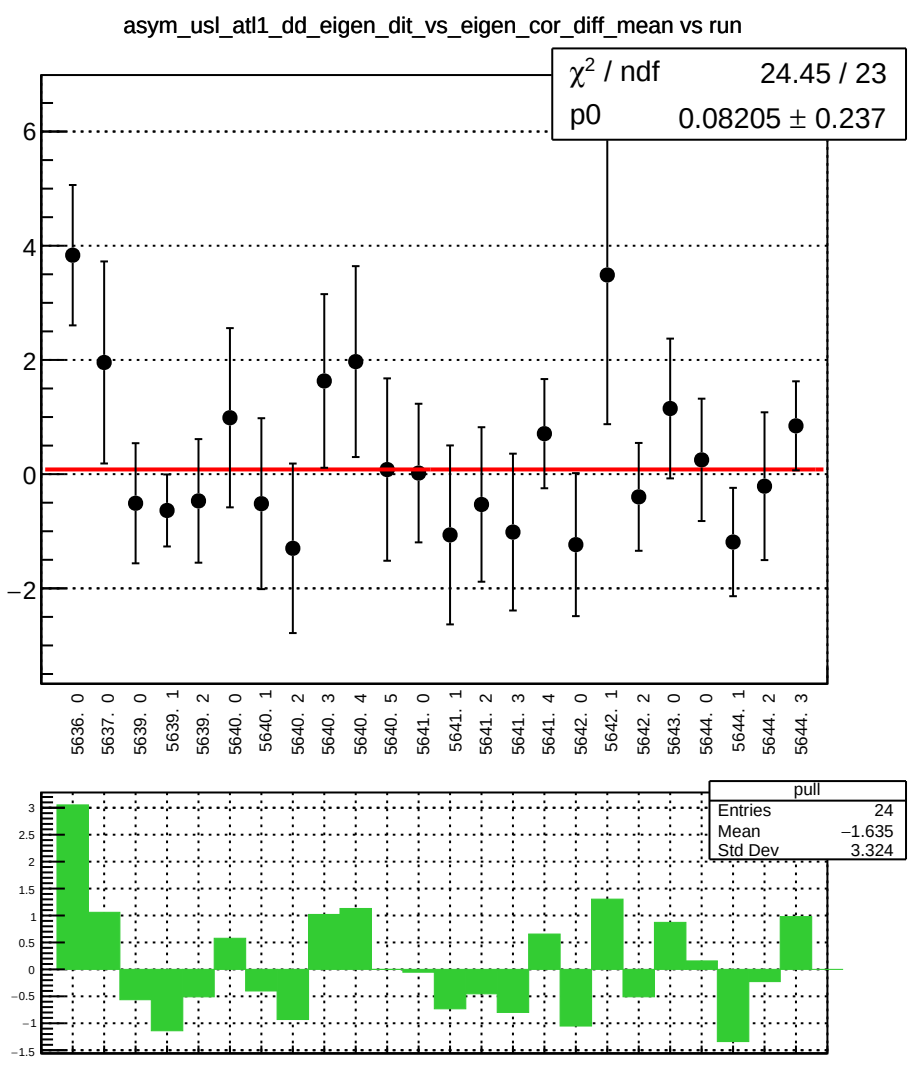

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 12.99 / 23
p0 2.355e−05 ± 3.182e−05
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −1203
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.001912
Std Dev 0.7356
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

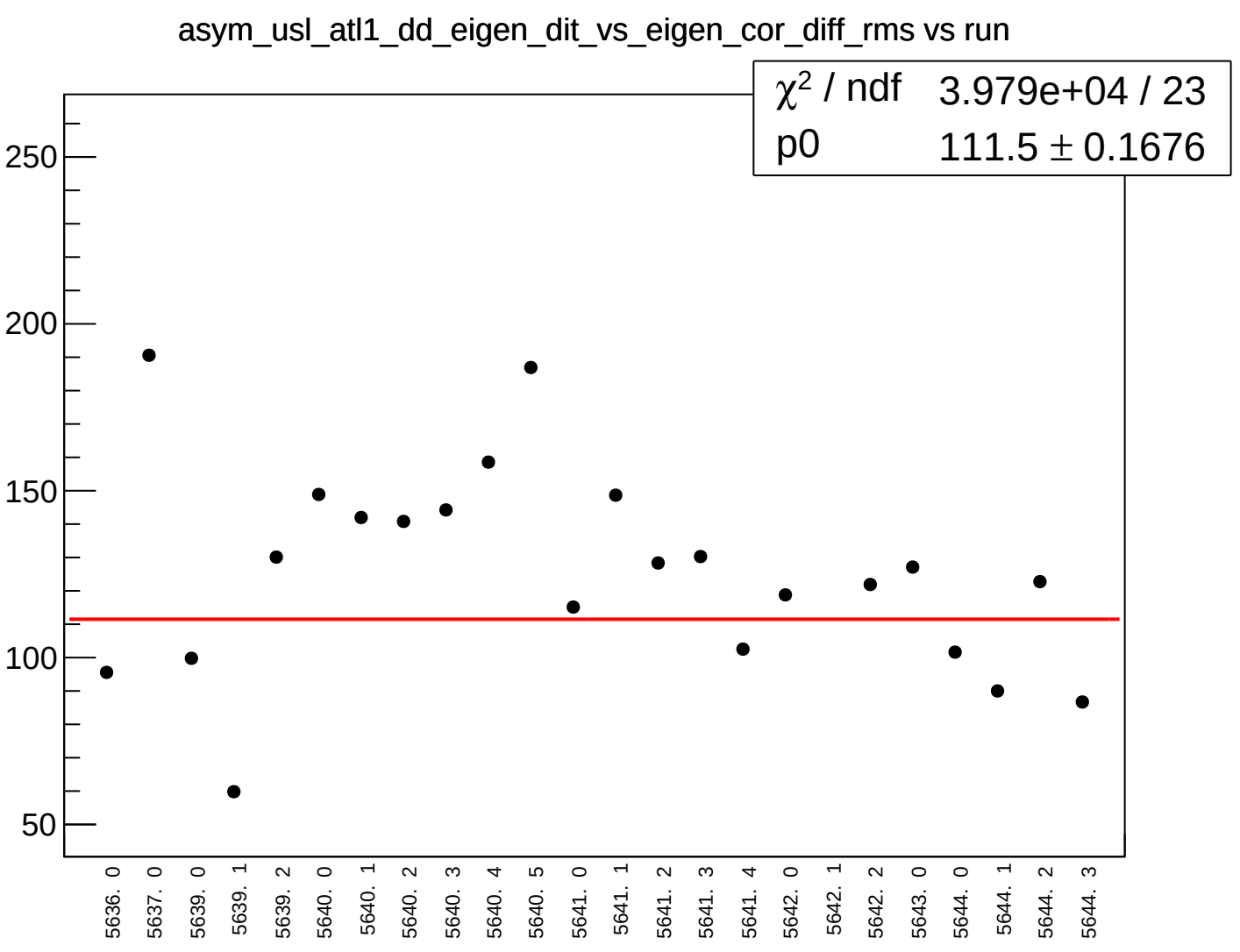

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1158 / 23
p0 0.01561 ± 2.25e−05
0.018
0.0175
0.017
0.0165
0.016
0.0155
0.015
0.0145
0.014
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

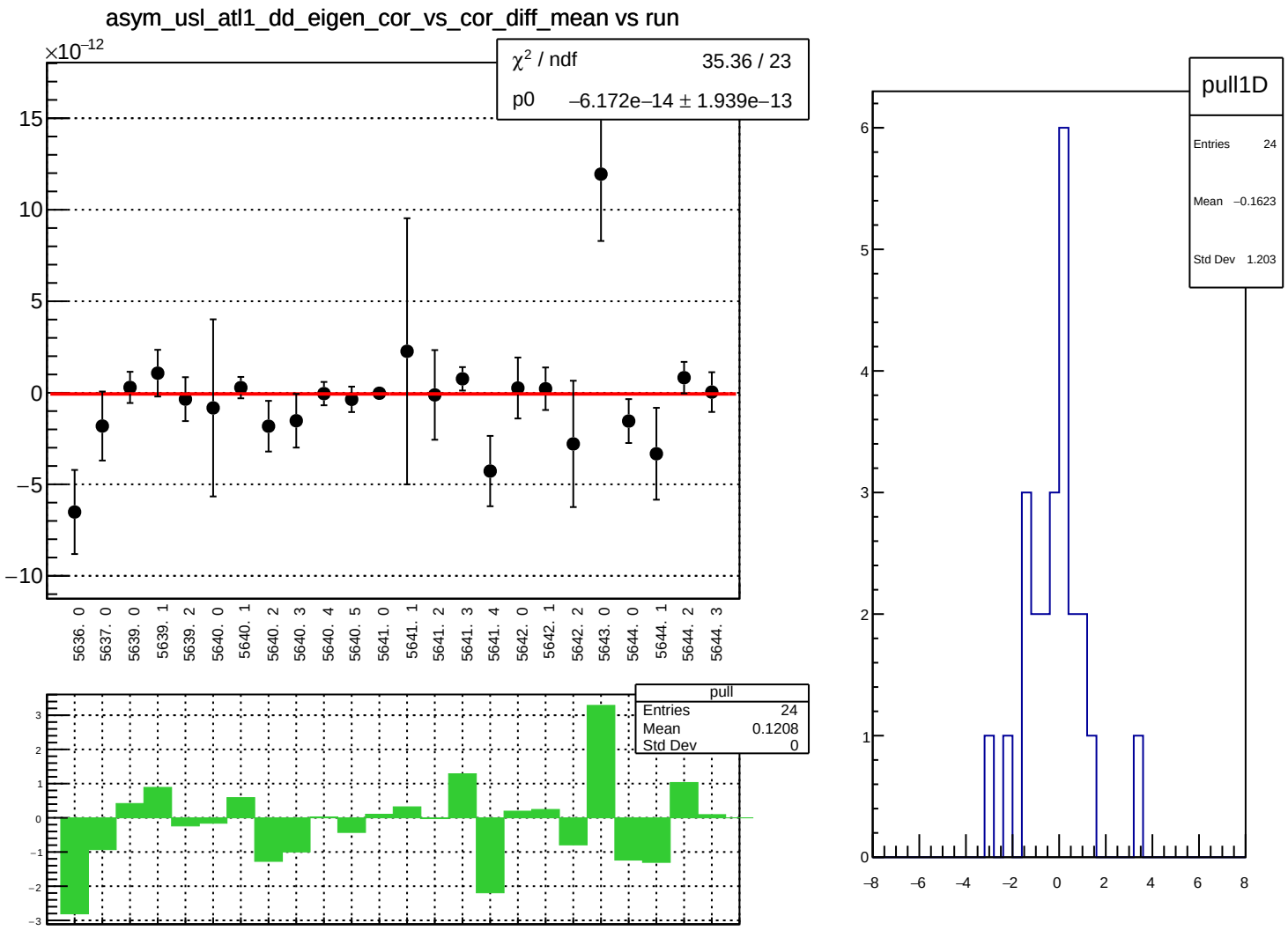

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 24.45 / 23
p0 0.08205 ± 0.237
6
4
2
0
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −1.635
Std Dev 3.324
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

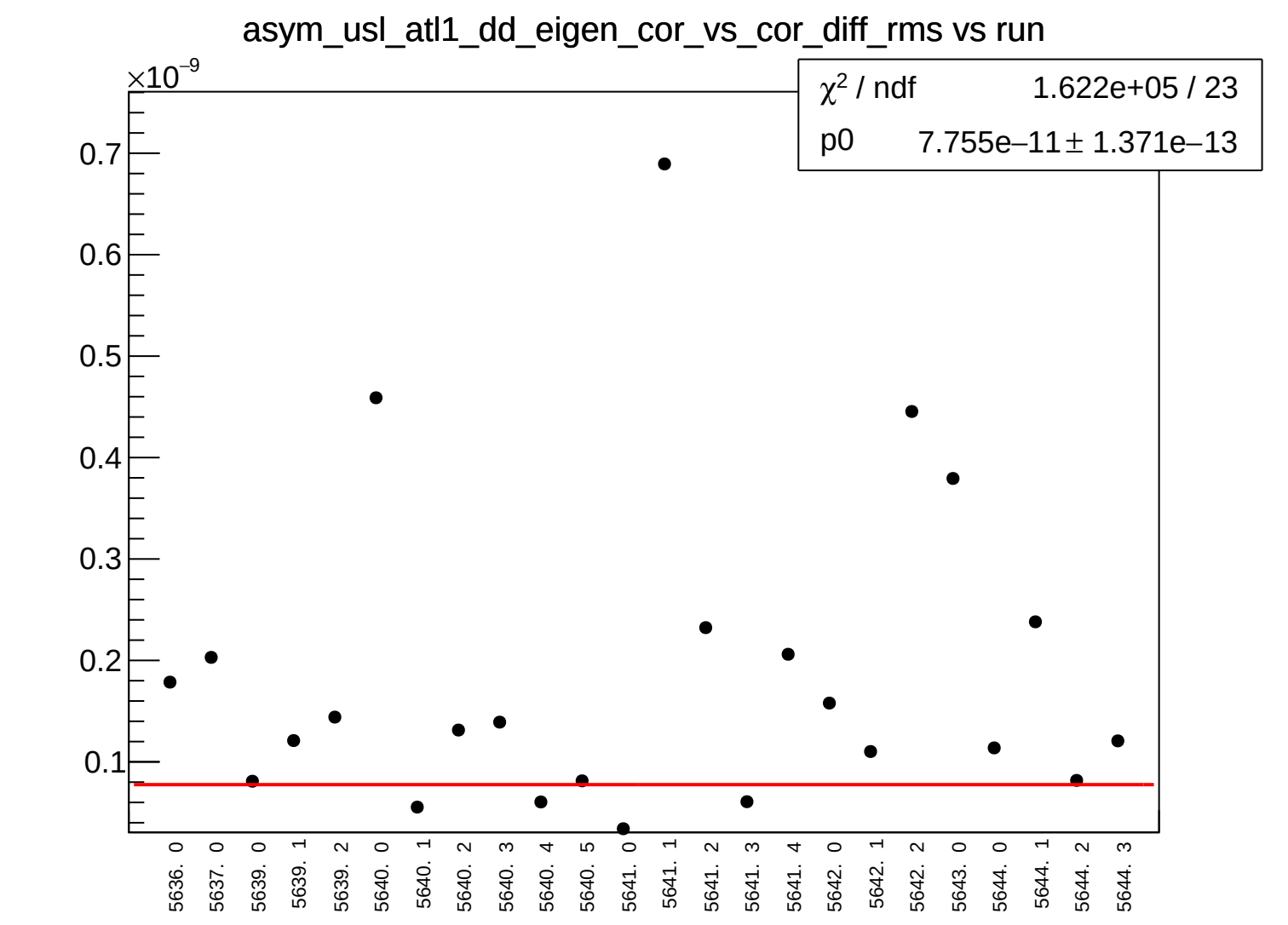

pull1D
Entries 24
Mean 0.08768
Std Dev 1.006
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

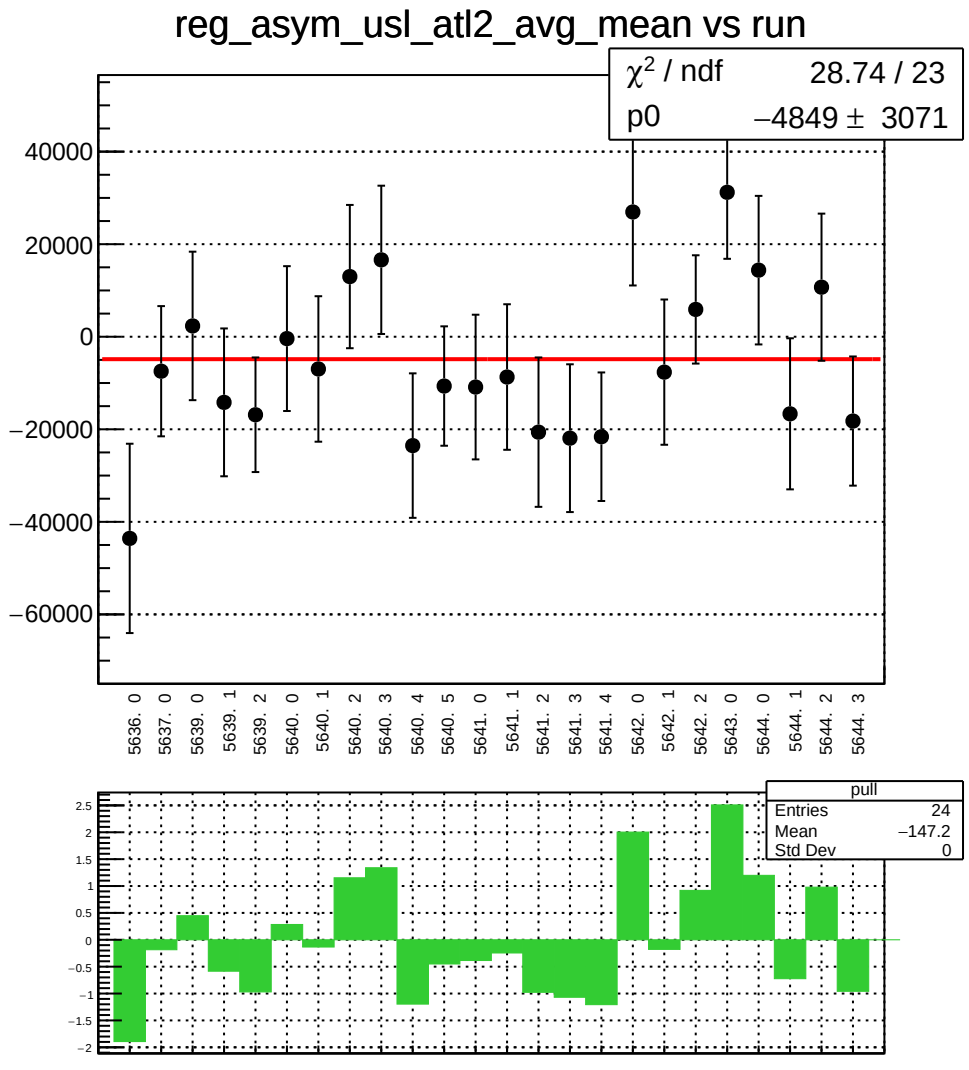

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.979e+04 / 23
p0 111.5 ± 0.1676
250
200
150
100
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

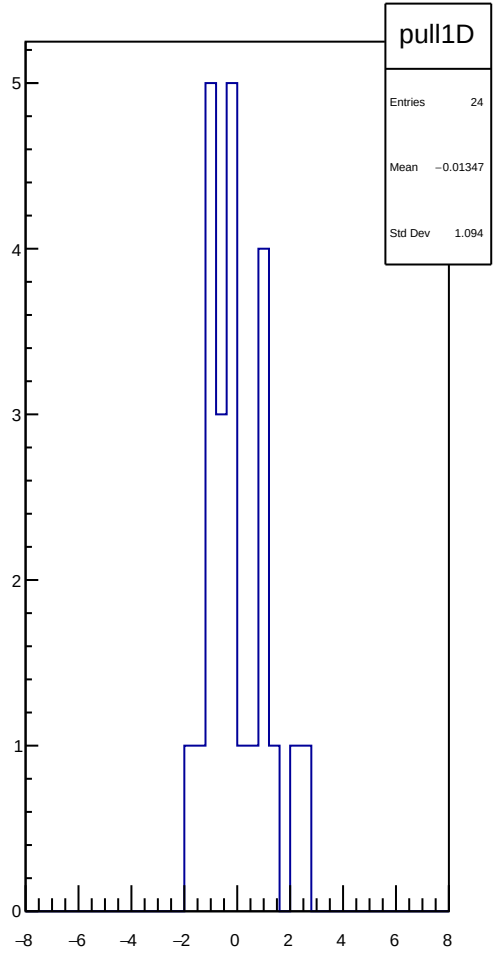

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.45 / 23
p0 0.08205 ± 0.237
6
4
2
0
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −1.635
Std Dev 3.324
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.08768
Std Dev 1.006
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

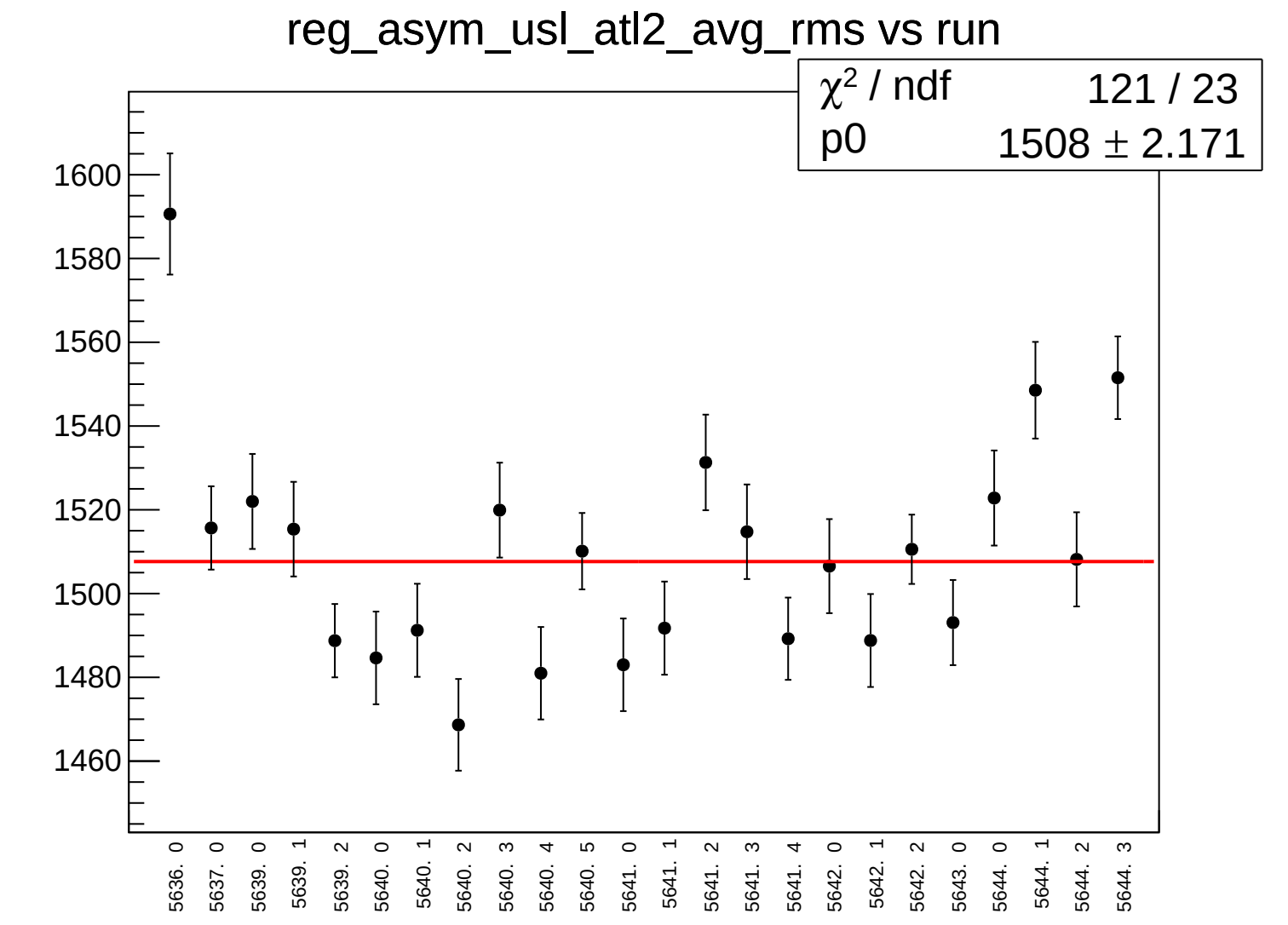

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.979e+04 / 23
p0 111.5 ± 0.1676
250
200
150
100
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

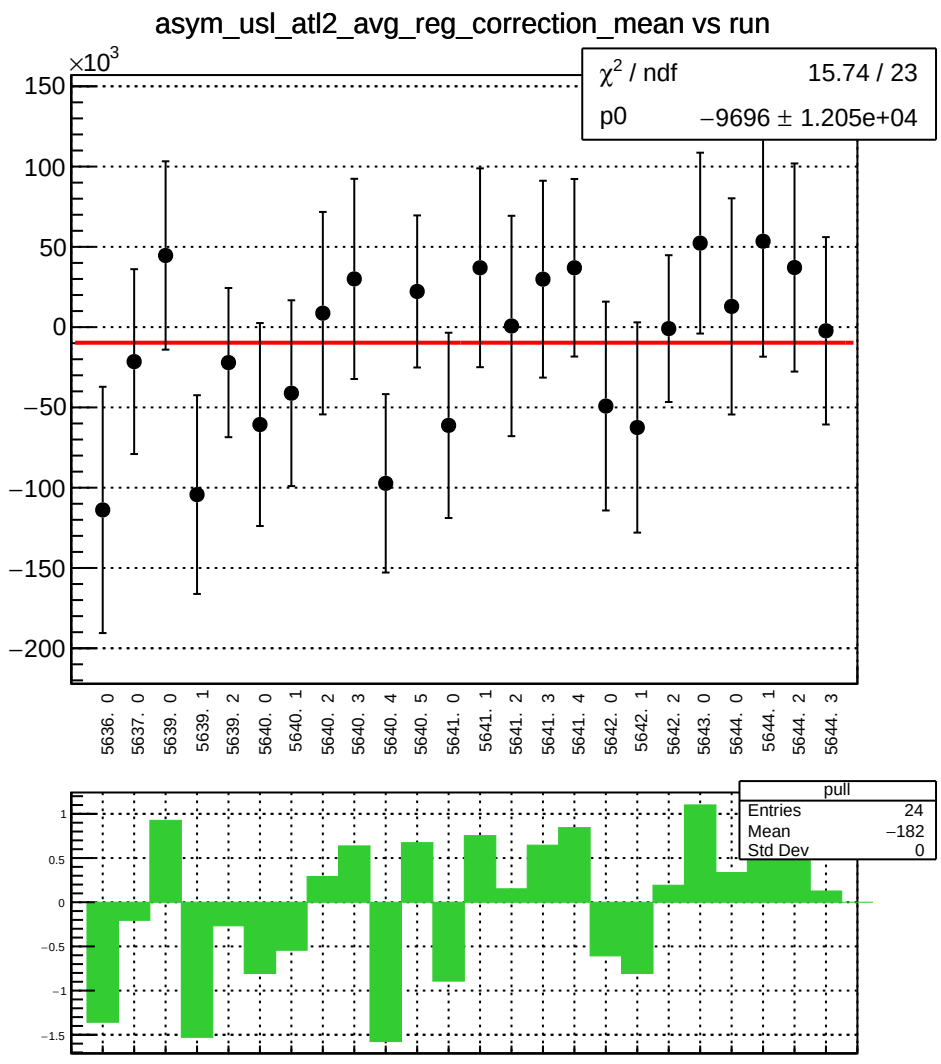

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 35.36 / 23
p0 −6.172e−14 ± 1.939e−13
15
10
5
0
−5
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 0.1208
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean −0.1623
Std Dev 1.203
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

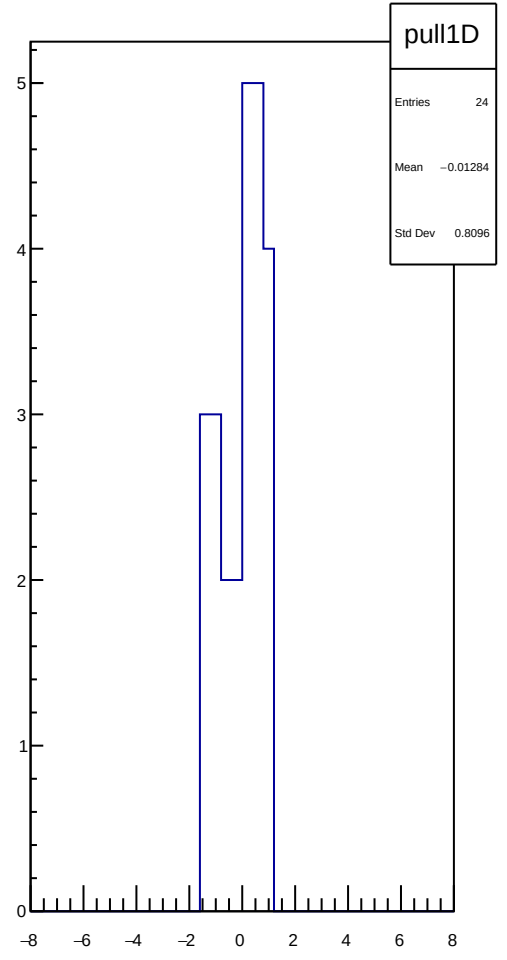

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.622e+05 / 23
p0 7.755e−11 ± 1.371e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

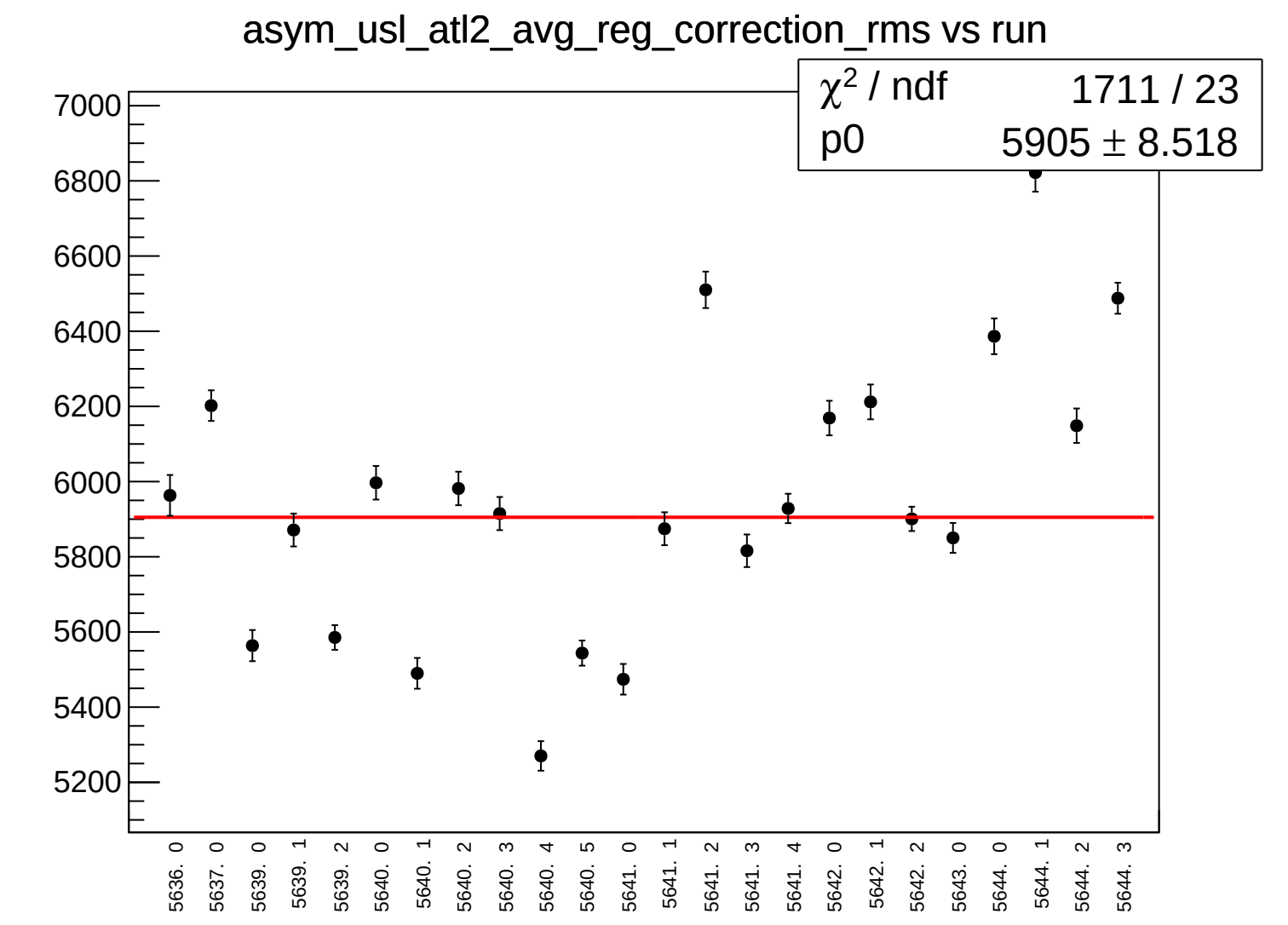

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 28.74 / 23
p0 −4849 ± 3071
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −147.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

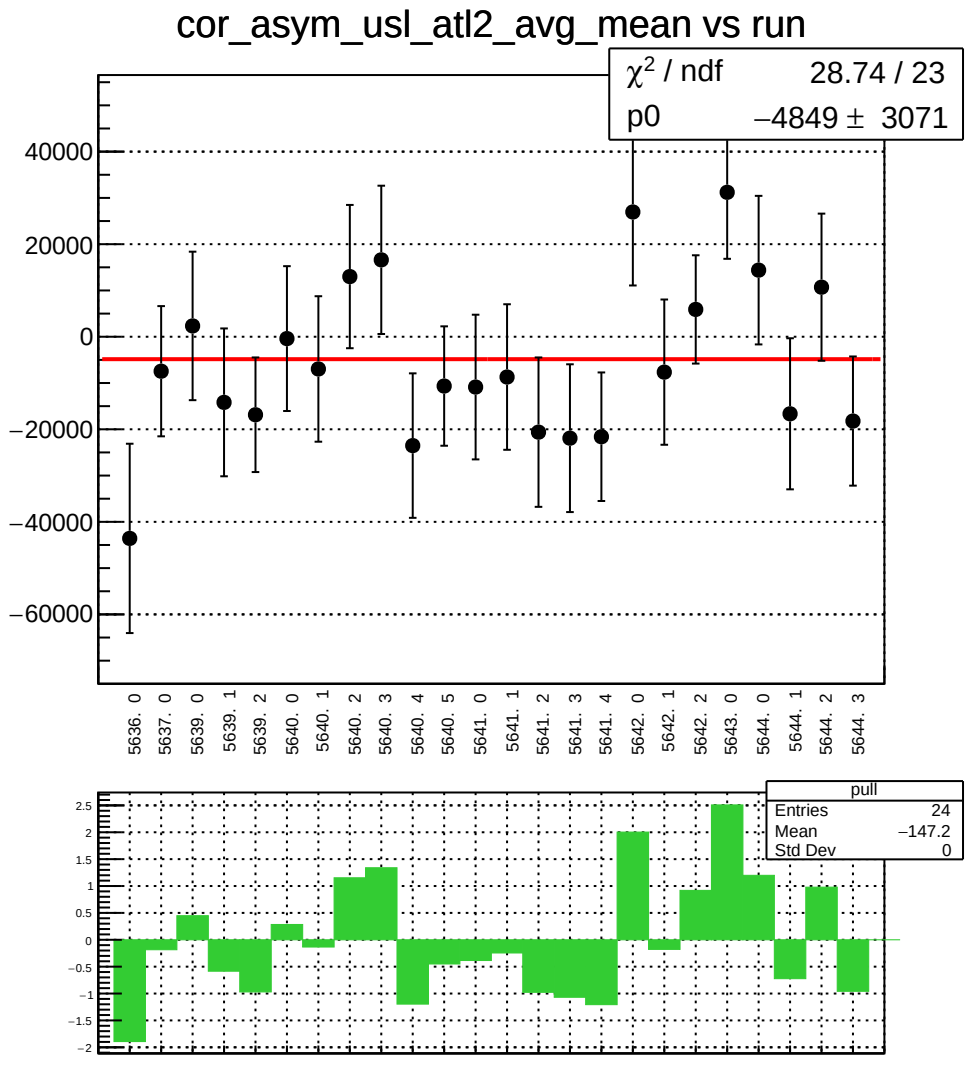

pull1D
Entries 24
Mean −0.01347
Std Dev 1.094
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

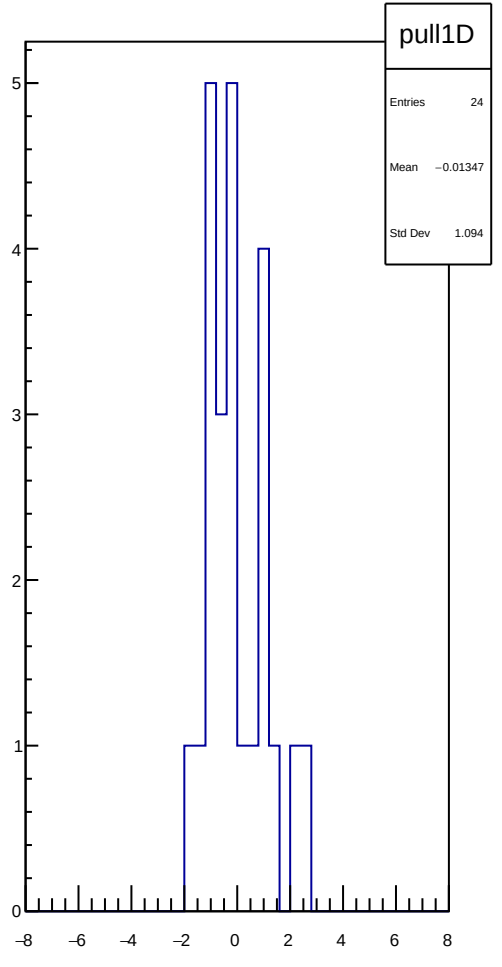

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 121 / 23
p0 1508 ± 2.171
1600
1580
1560
1540
1520
1500
1480
1460
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

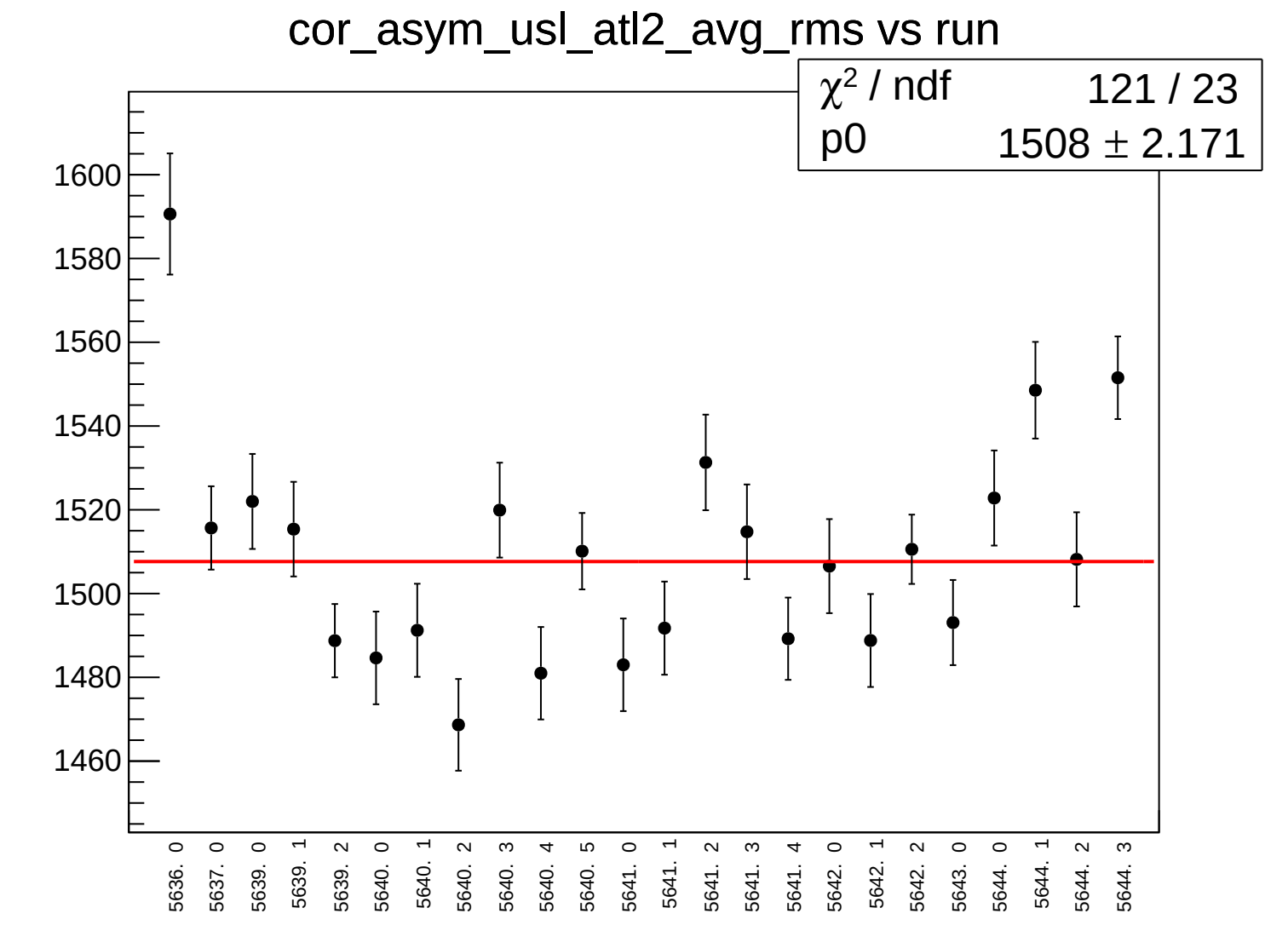

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 15.74 / 23
p0 −9696 ± 1.205e+04
150
100
50
0
−50
−100
−150
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −182
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

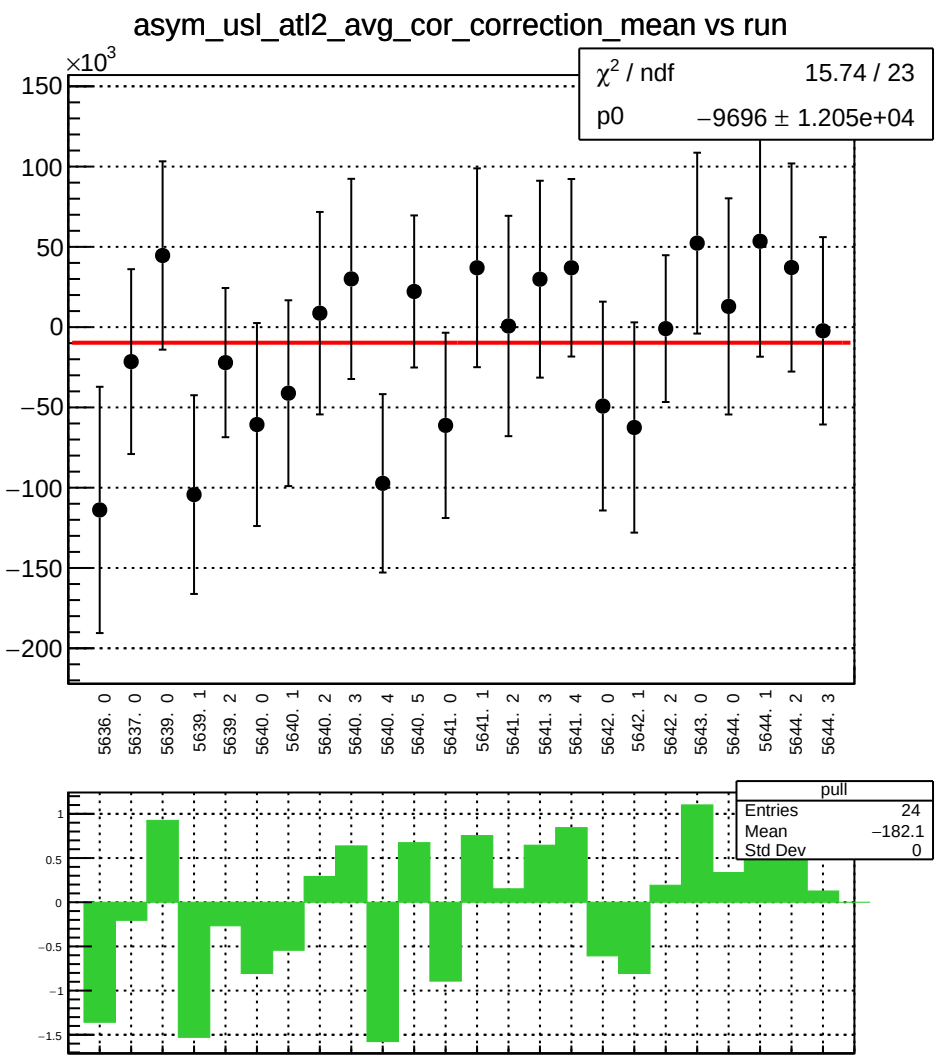

pull1D
Entries 24
Mean −0.01284
Std Dev 0.8096
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

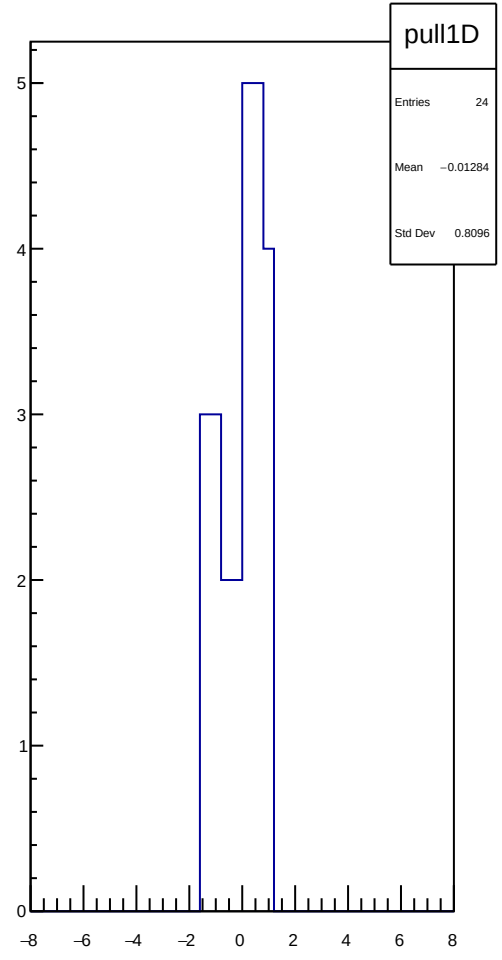

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 1711 / 23
p0 5905 ± 8.518
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

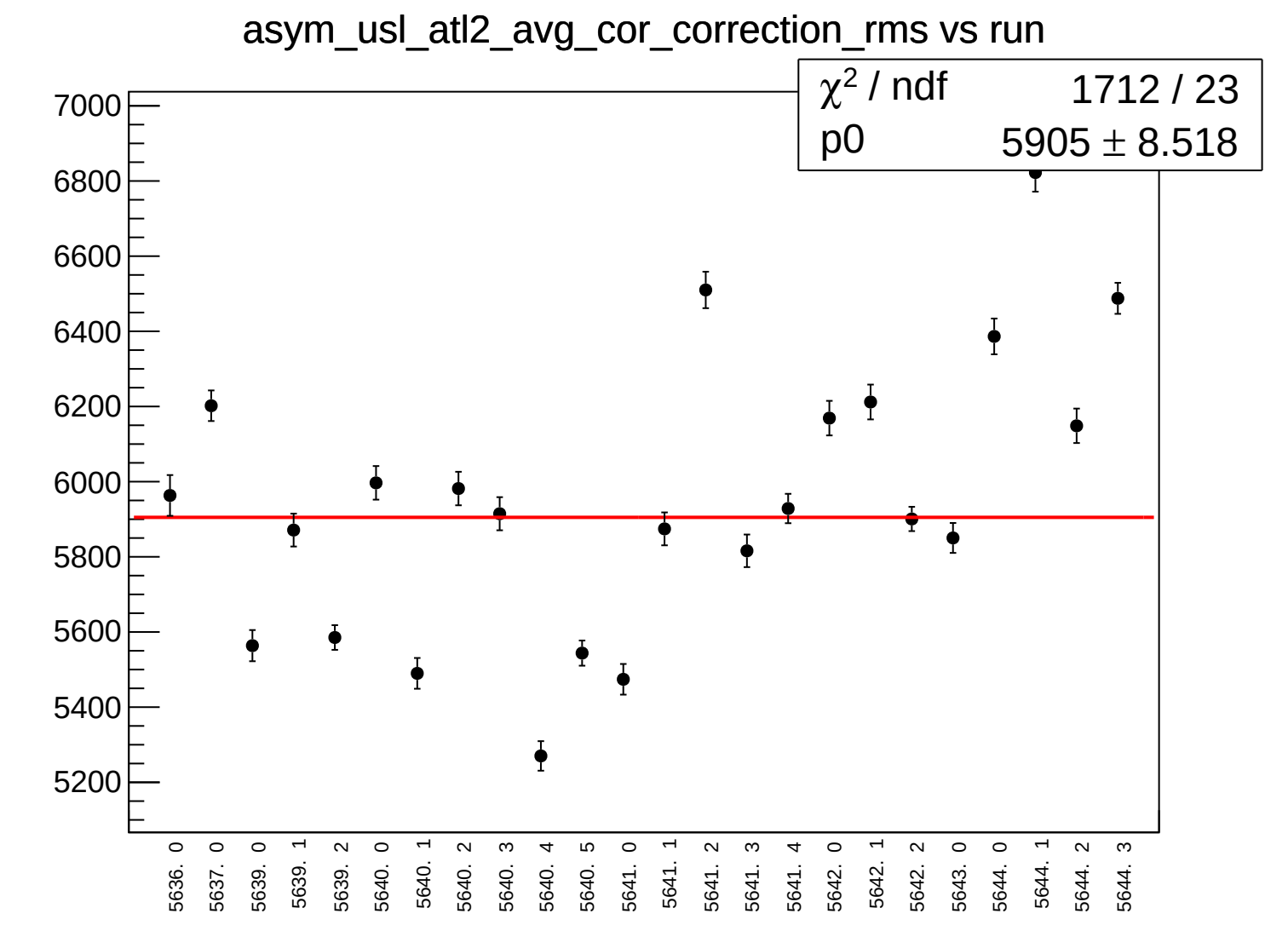

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 28.74 / 23
p0 −4849 ± 3071
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −147.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

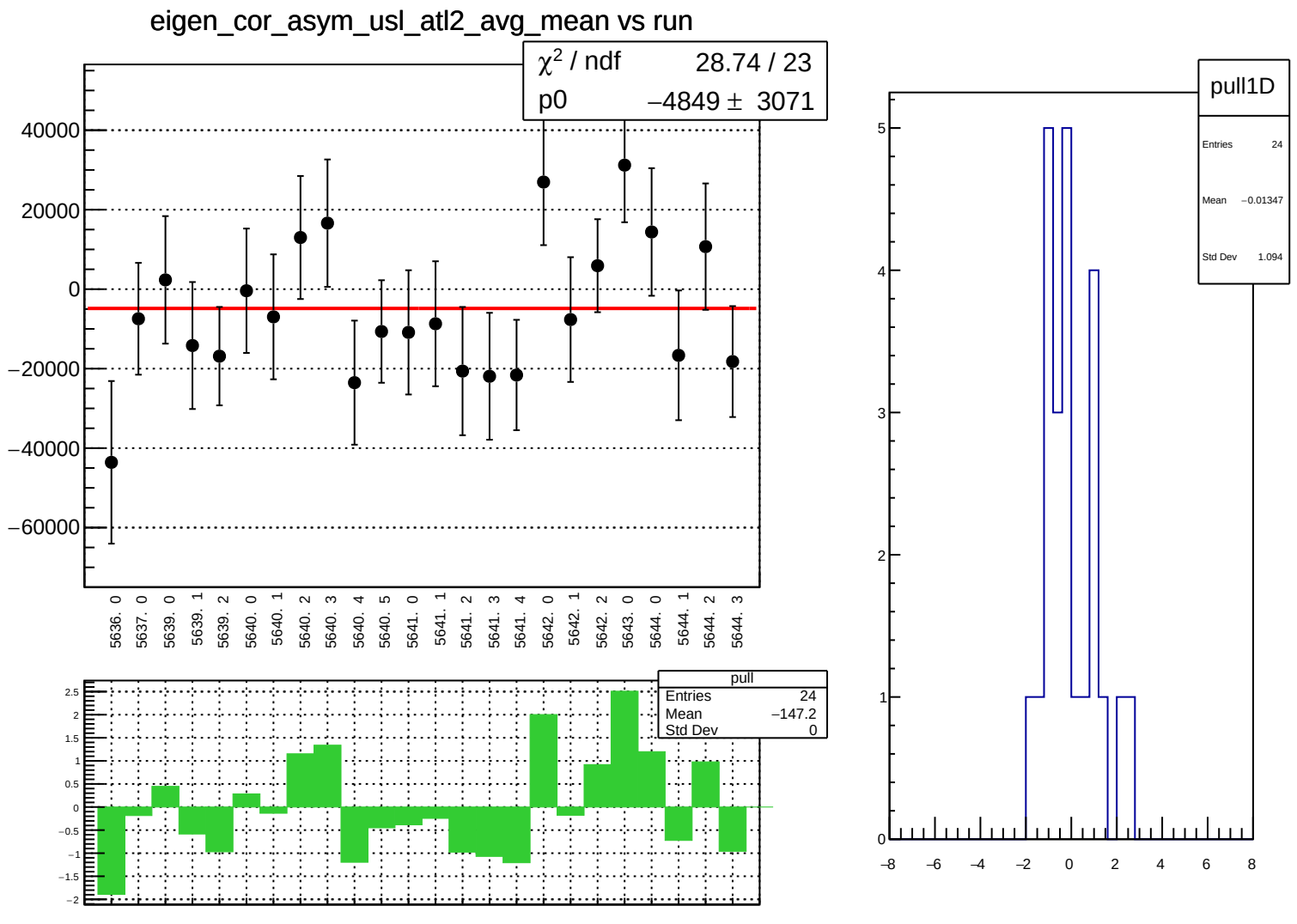

pull1D
Entries 24
Mean −0.01347
Std Dev 1.094
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

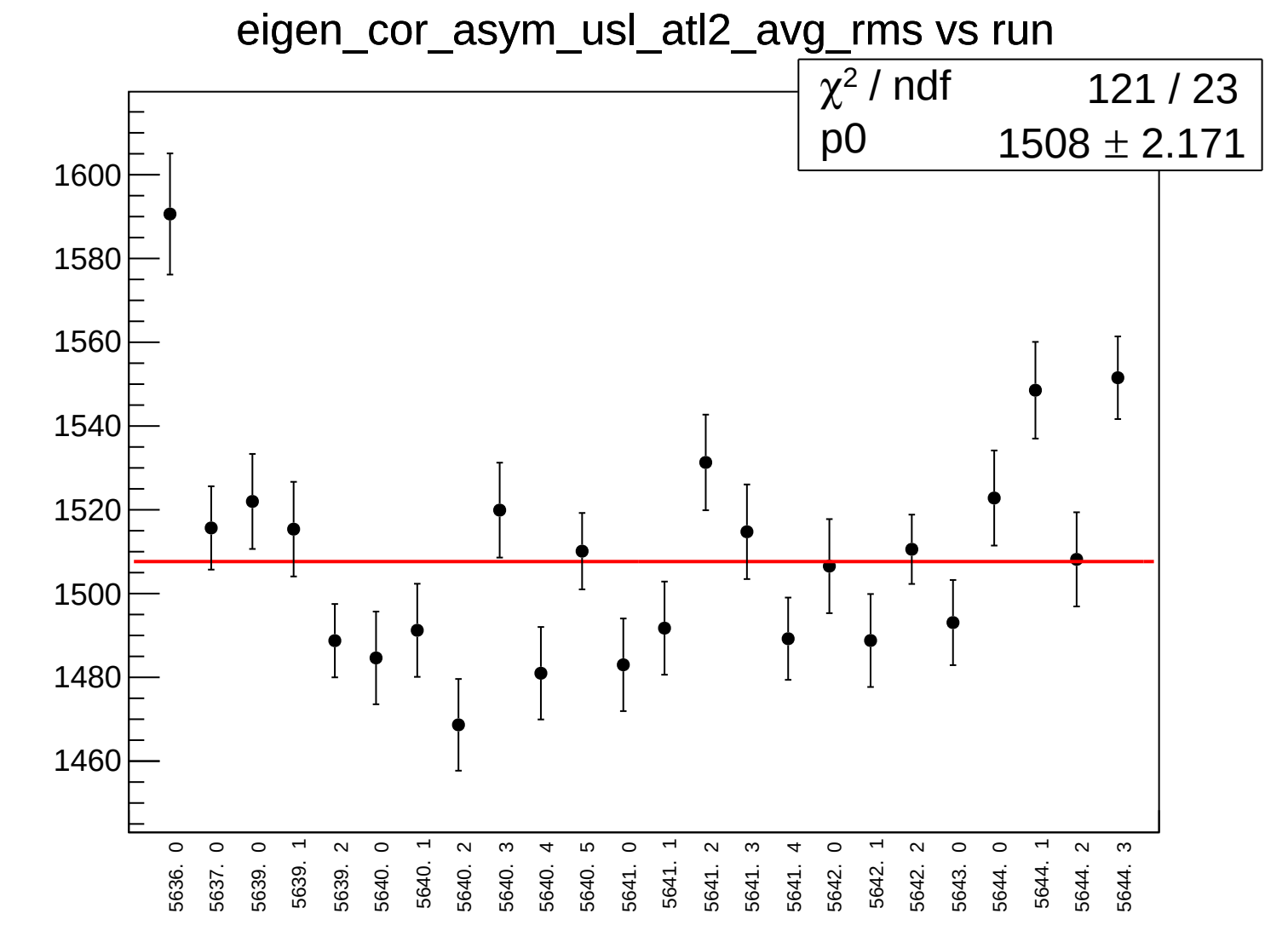

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 121 / 23
p0 1508 ± 2.171
1600
1580
1560
1540
1520
1500
1480
1460
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

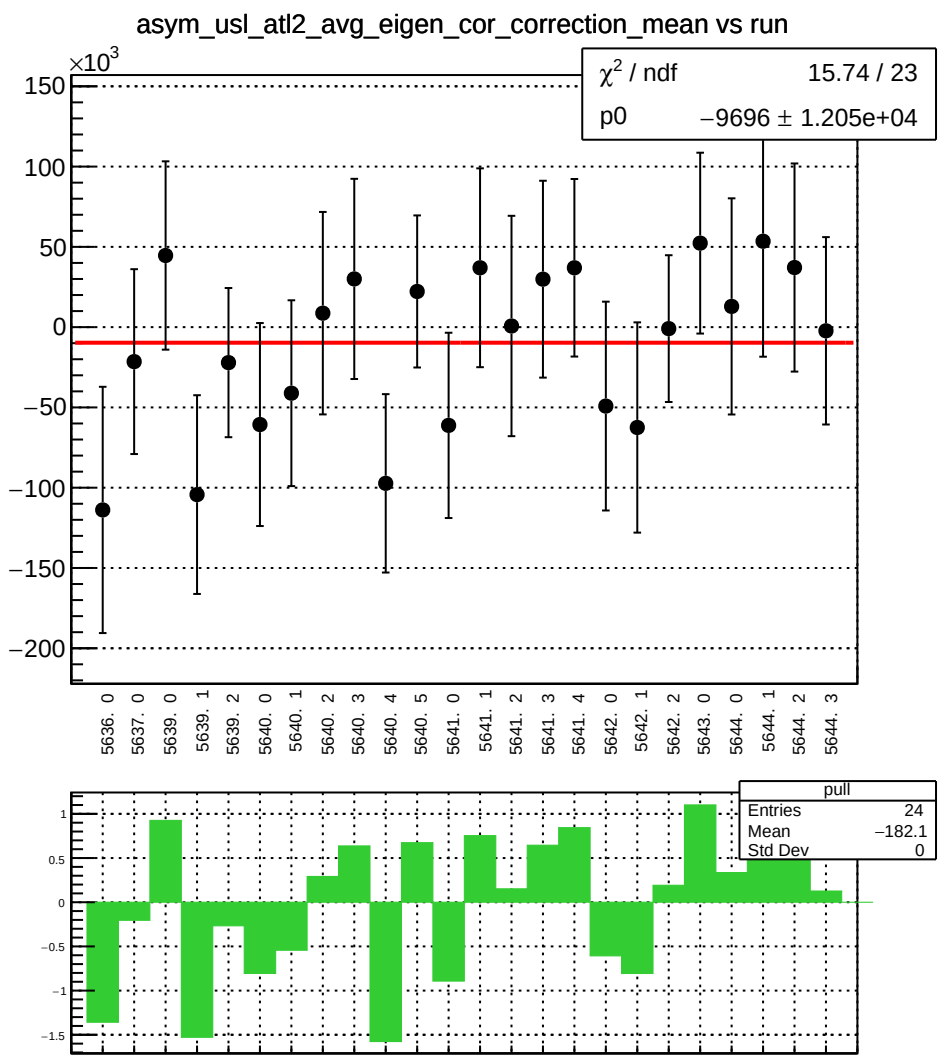

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 15.74 / 23
p0 −9696 ± 1.205e+04
150
100
50
0
−50
−100
−150
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −182.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

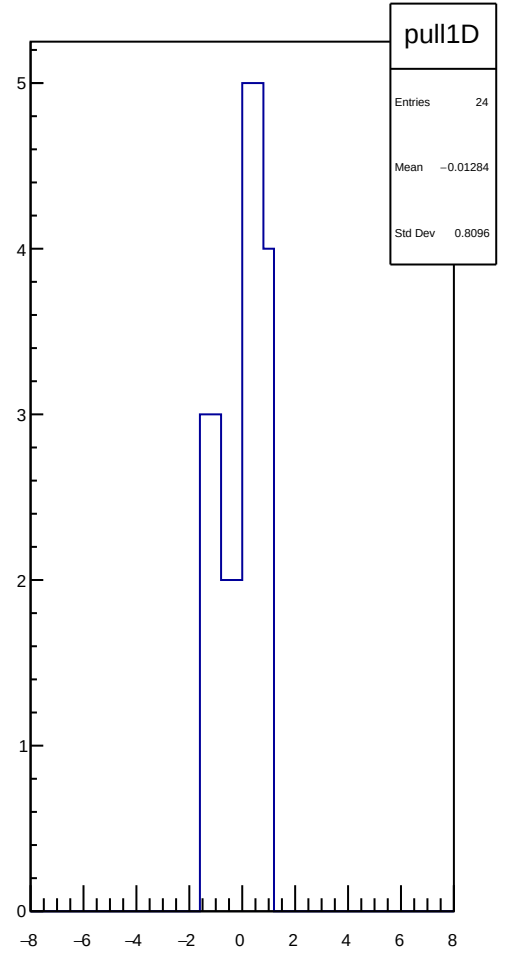

pull1D
Entries 24
Mean −0.01284
Std Dev 0.8096
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

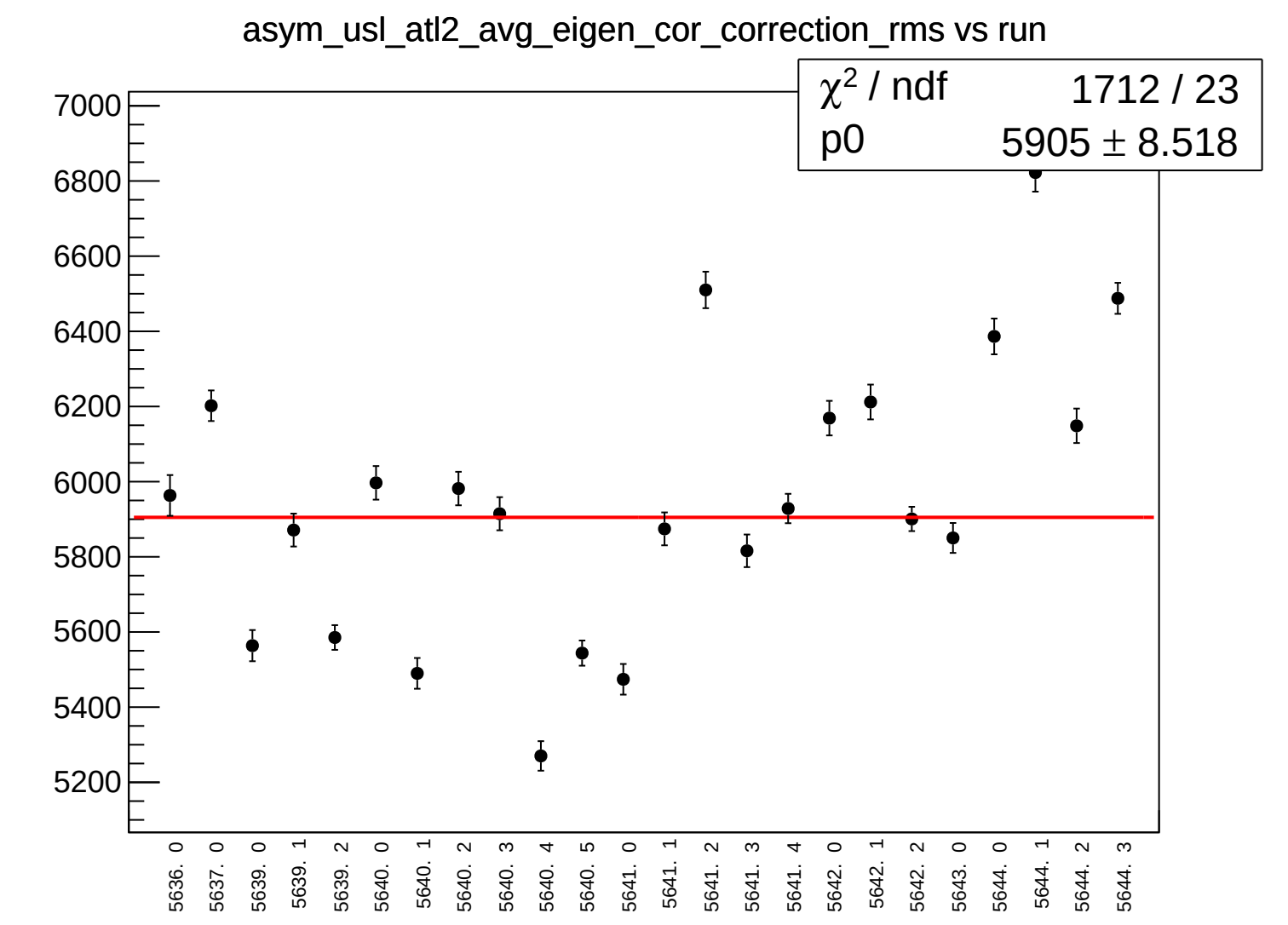

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 1712 / 23
p0 5905 ± 8.518
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

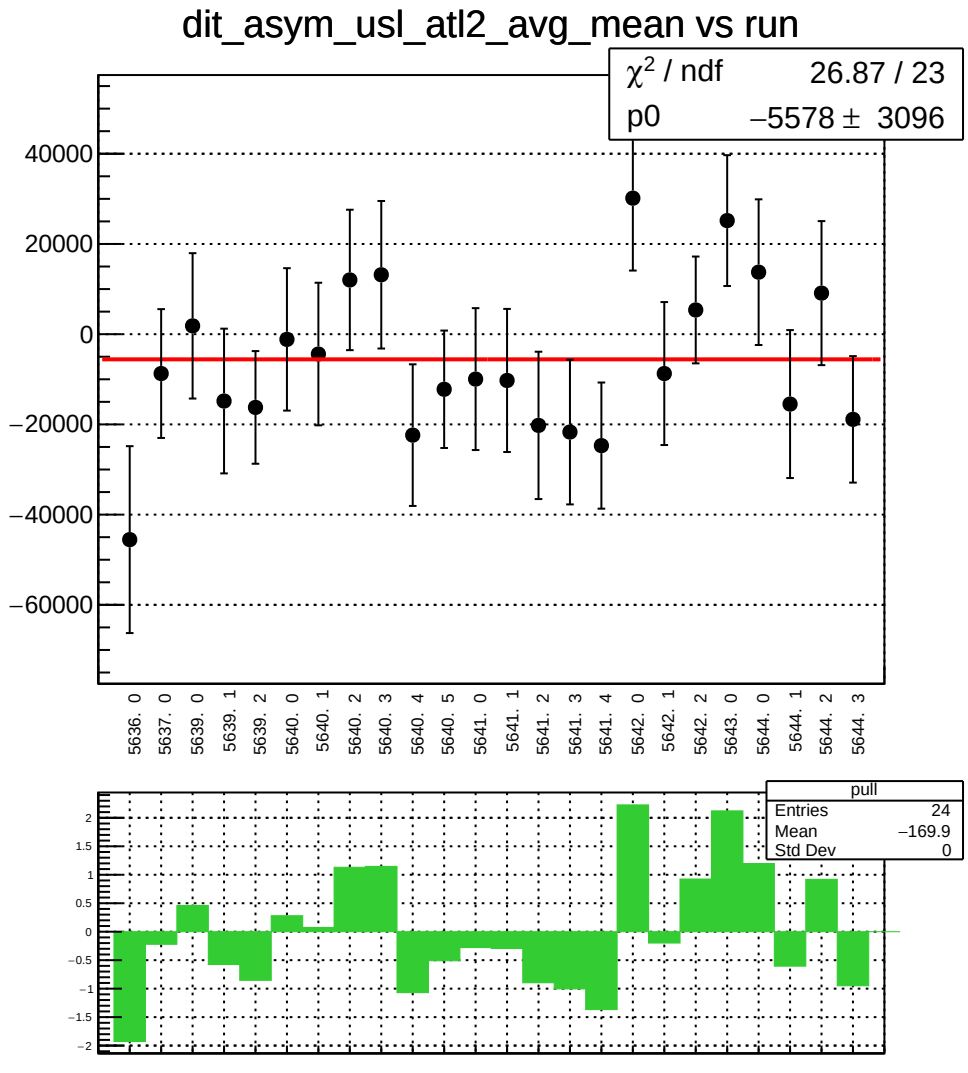

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 28.74 / 23
p0 −4849 ± 3071
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −147.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.01347
Std Dev 1.094
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

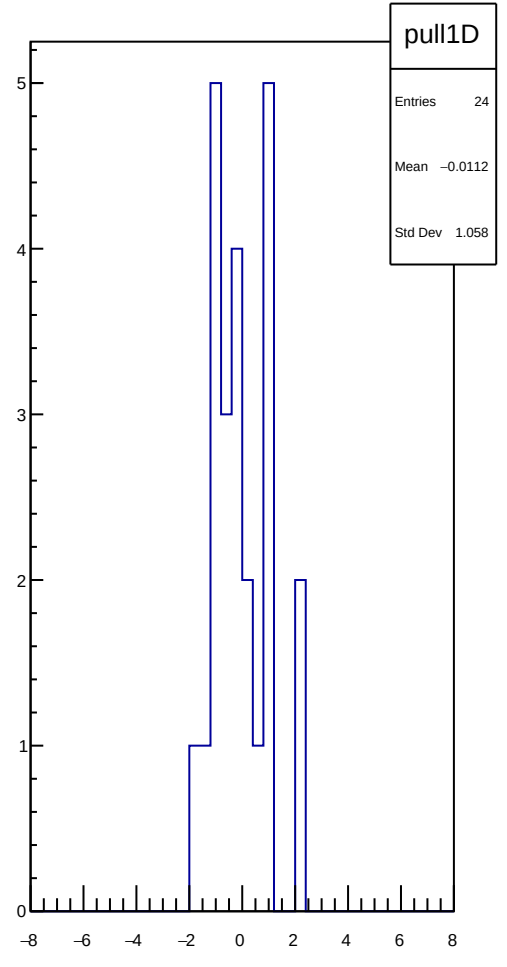

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 121 / 23
p0 1508 ± 2.171
1600
1580
1560
1540
1520
1500
1480
1460
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

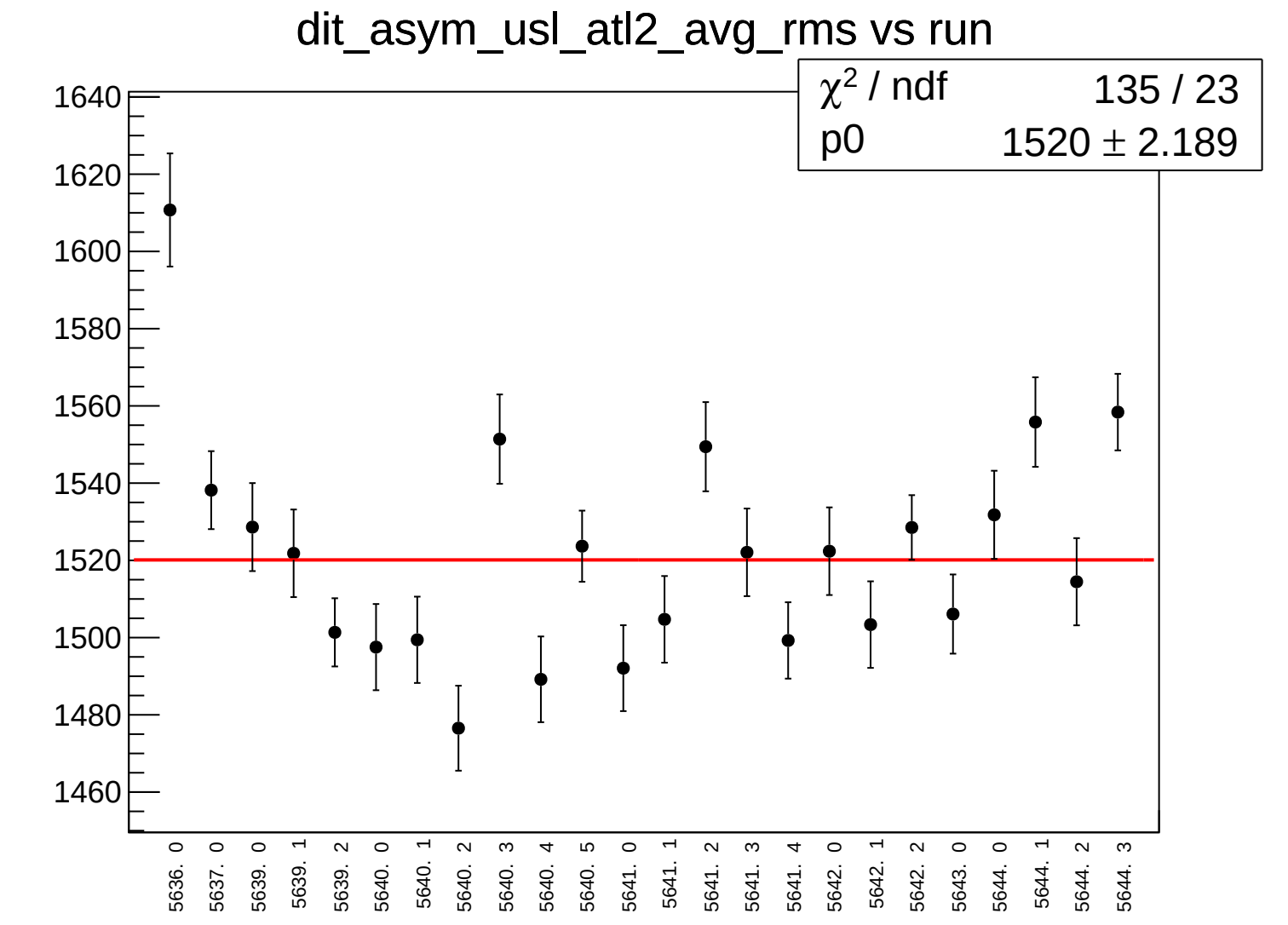

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 15.74 / 23
p0 −9696 ± 1.205e+04
150
100
50
0
−50
−100
−150
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −182.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

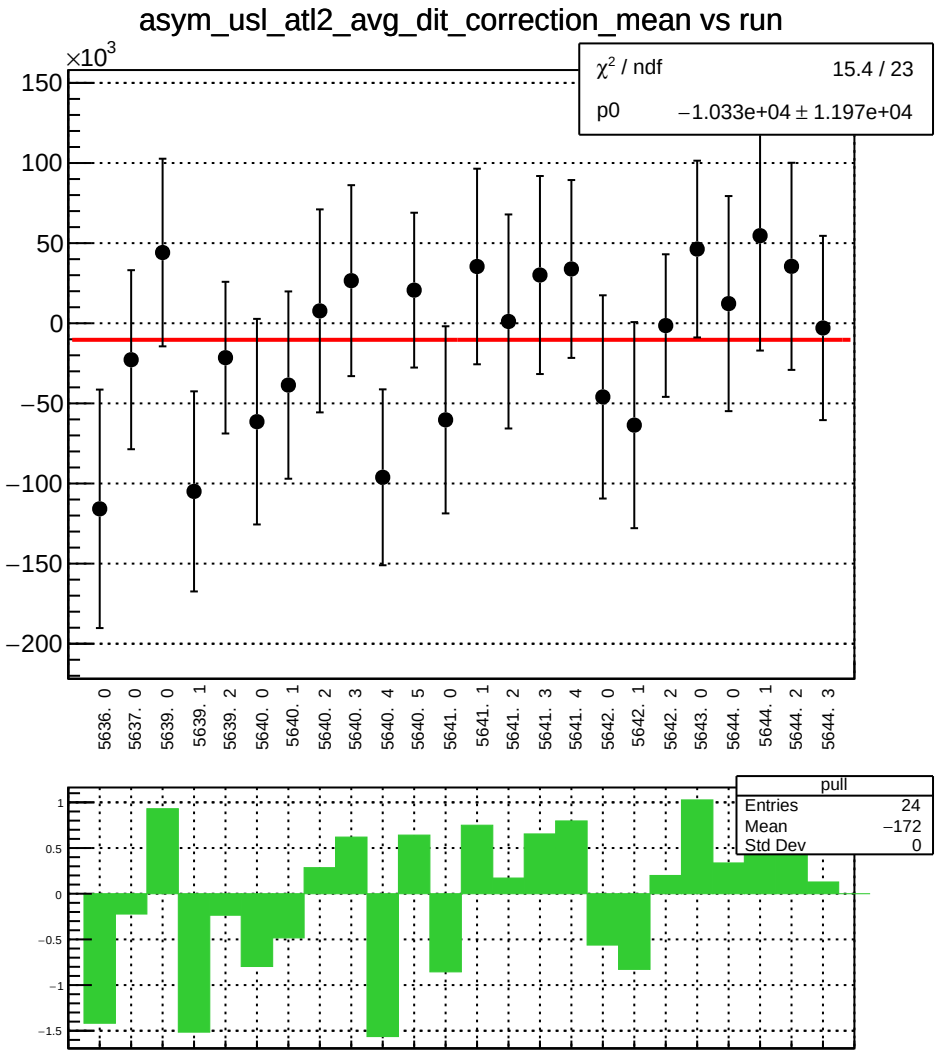

pull1D
Entries 24
Mean −0.01284
Std Dev 0.8096
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

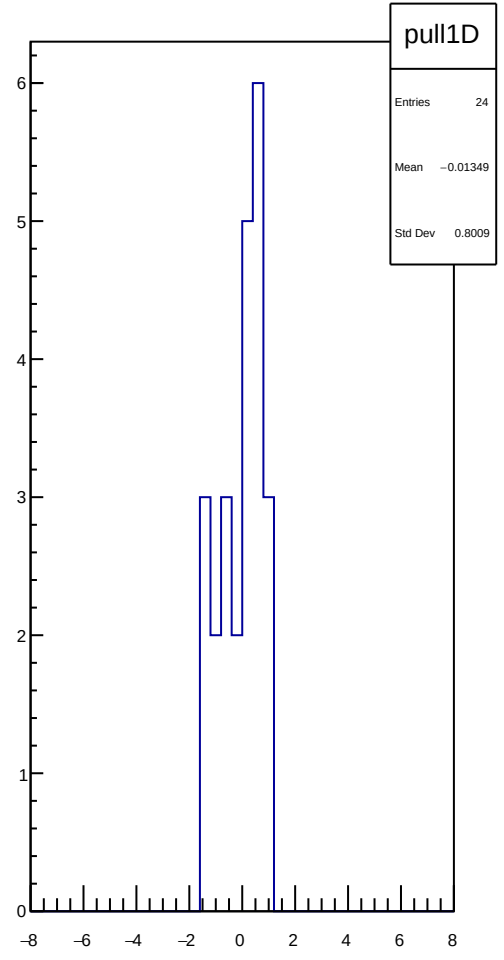

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1712 / 23
p0 5905 ± 8.518
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

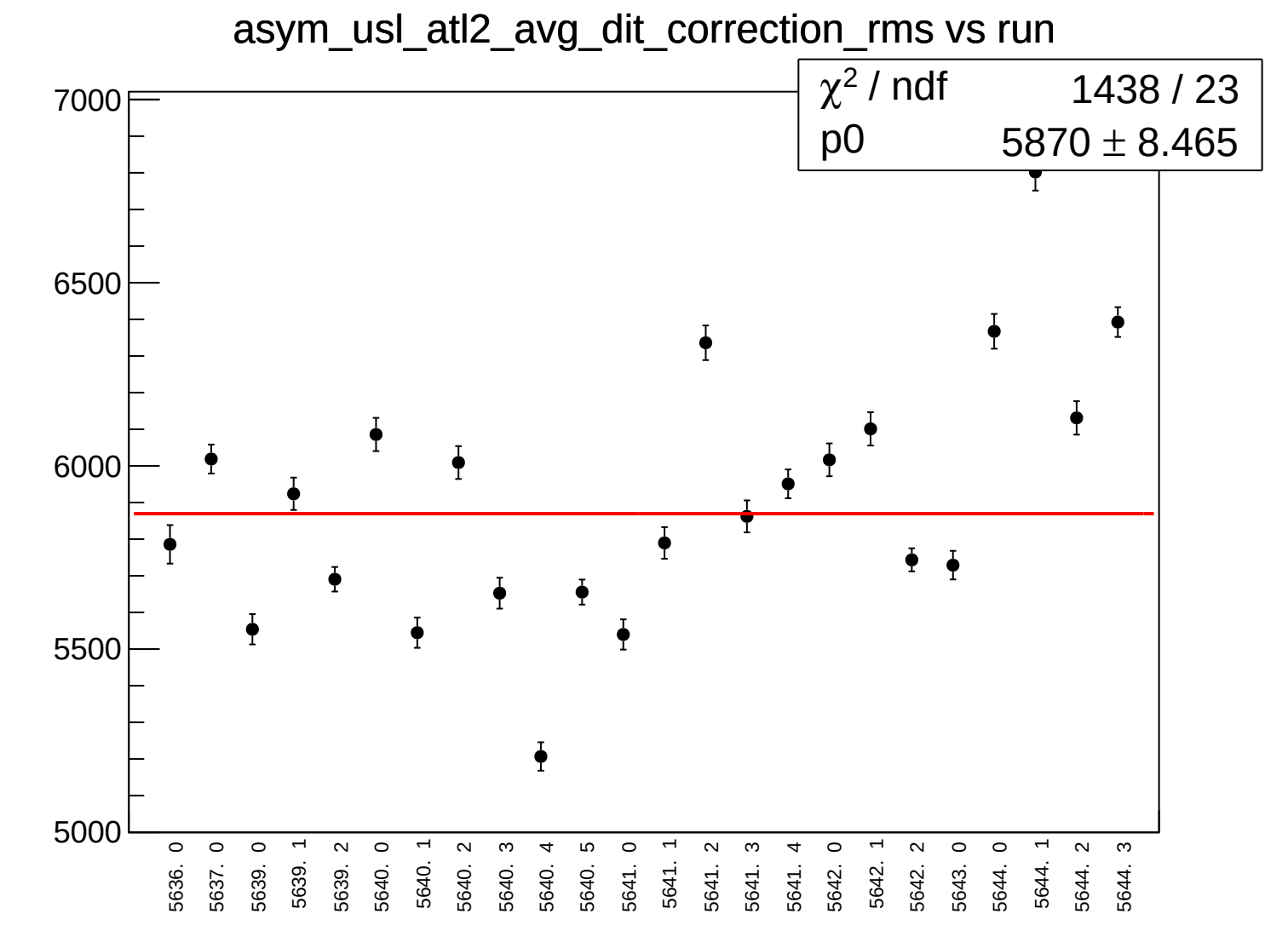

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 26.87 / 23
p0 −5578 ± 3096
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −169.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

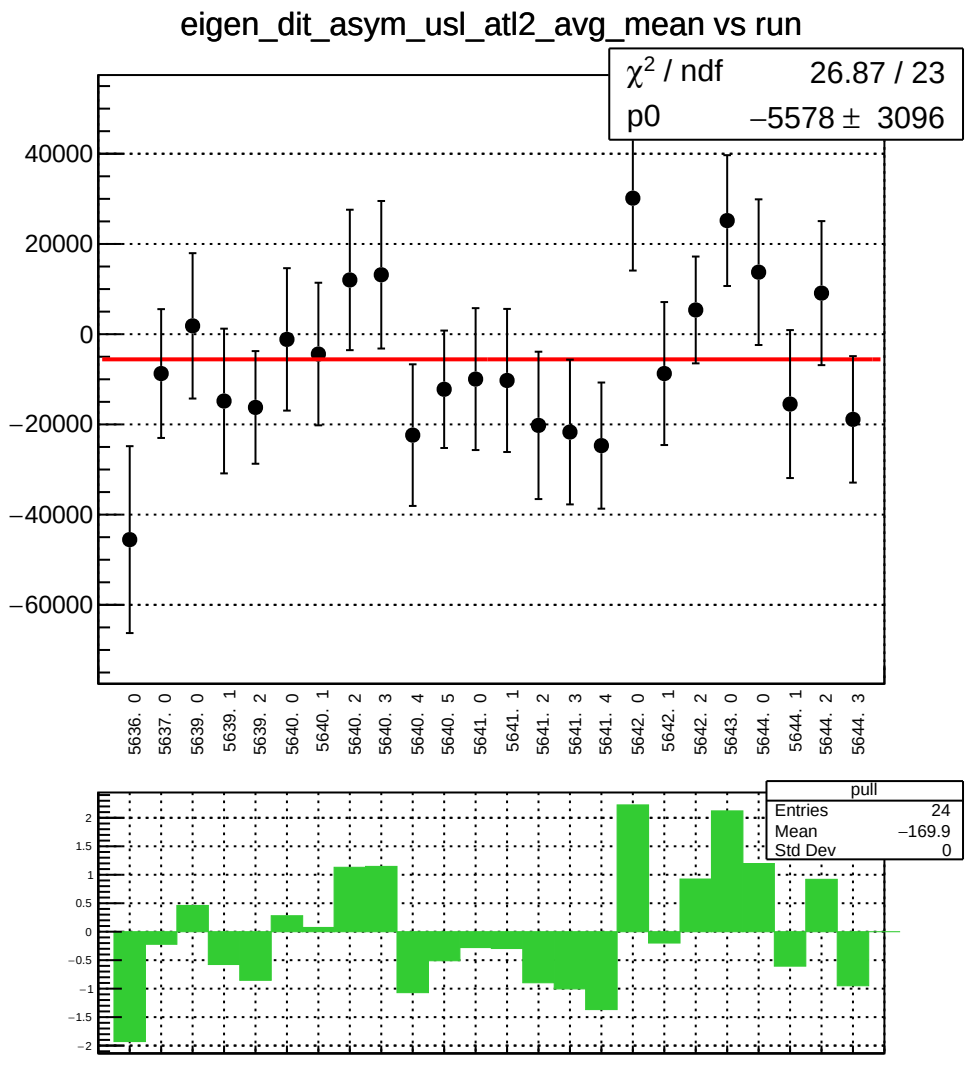

pull1D
Entries 24
Mean −0.0112
Std Dev 1.058
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

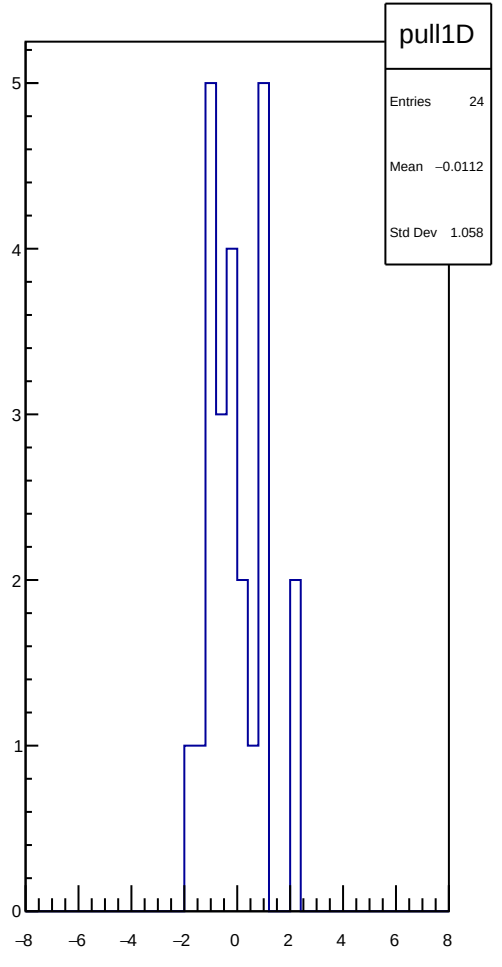

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 135 / 23
p0 1520 ± 2.189
1640
1620
1600
1580
1560
1540
1520
1500
1480
1460
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

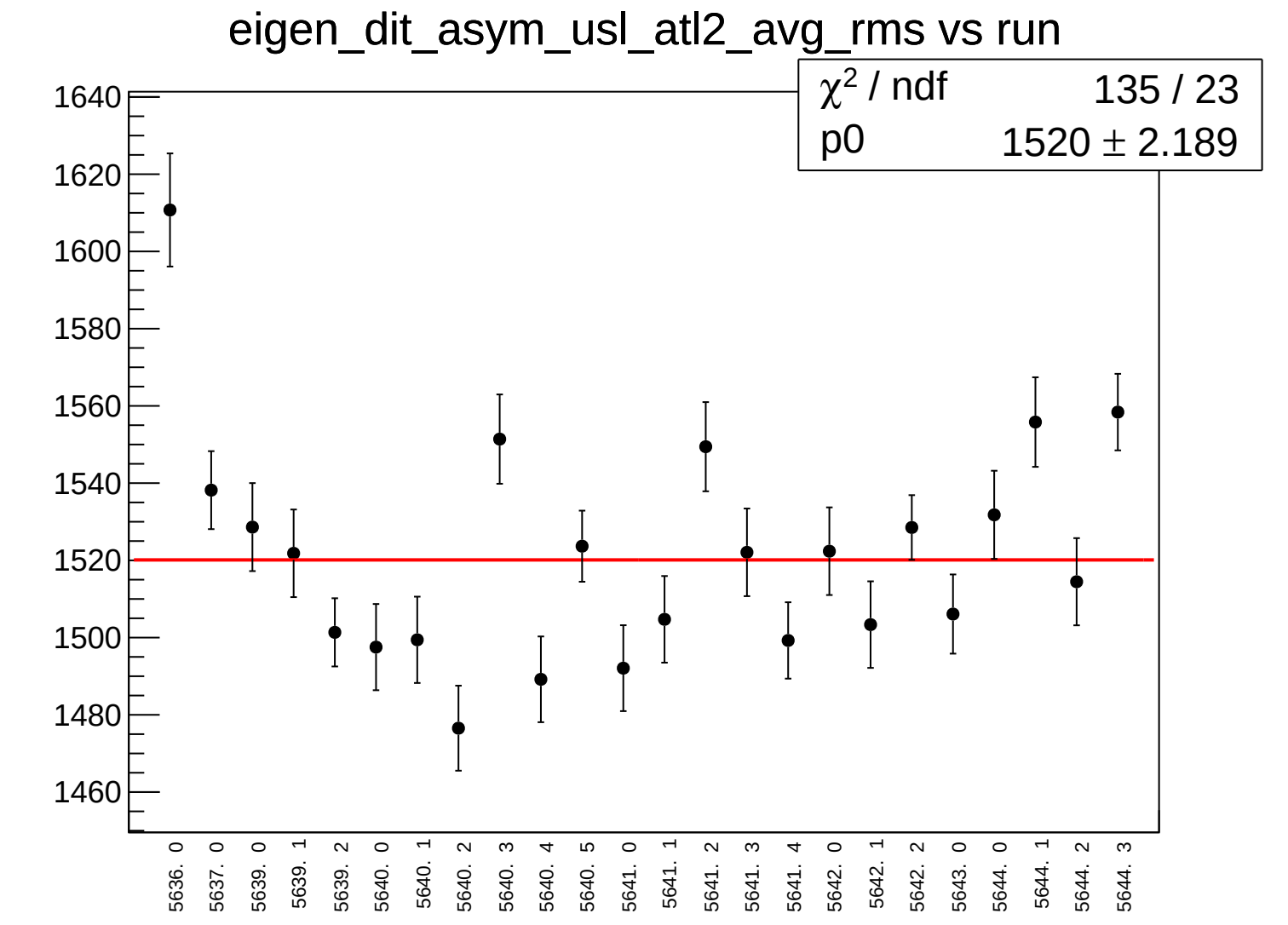

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 15.4 / 23
p0 −1.033e+04 ± 1.197e+04
150
100
50
0
−50
−100
−150
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −172
Std Dev 0
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean −0.01349
Std Dev 0.8009
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 1438 / 23
p0 5870 ± 8.465
7000
6500
6000
5500
5000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 26.87 / 23
p0 −5578 ± 3096
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −169.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.0112
Std Dev 1.058
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 135 / 23
p0 1520 ± 2.189
1640
1620
1600
1580
1560
1540
1520
1500
1480
1460
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
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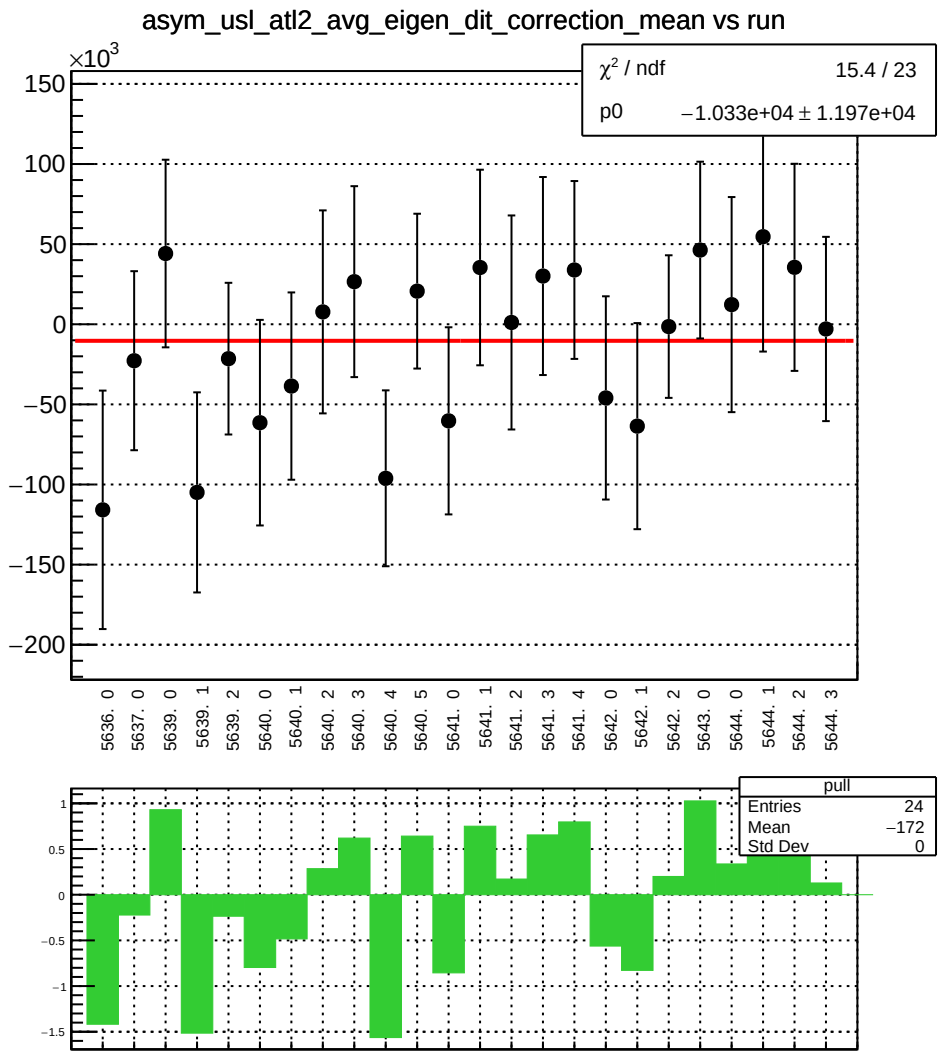
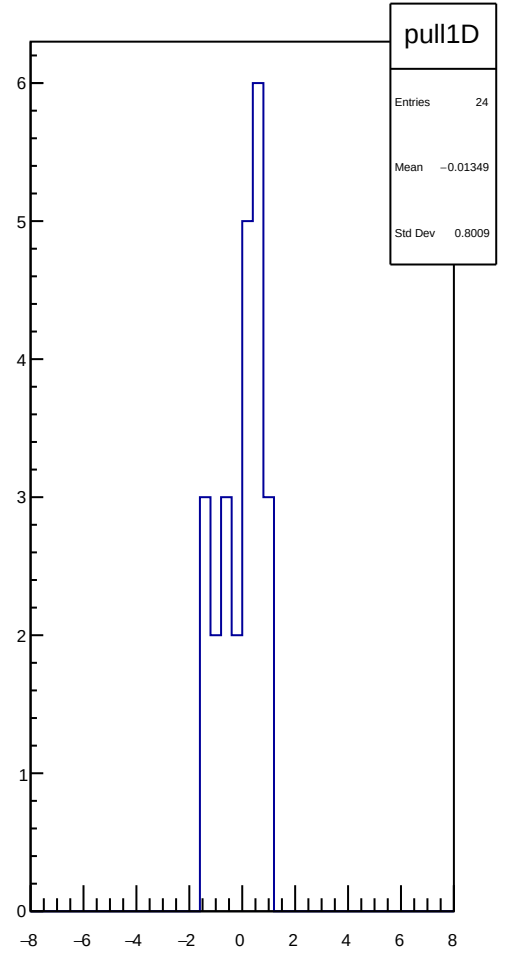
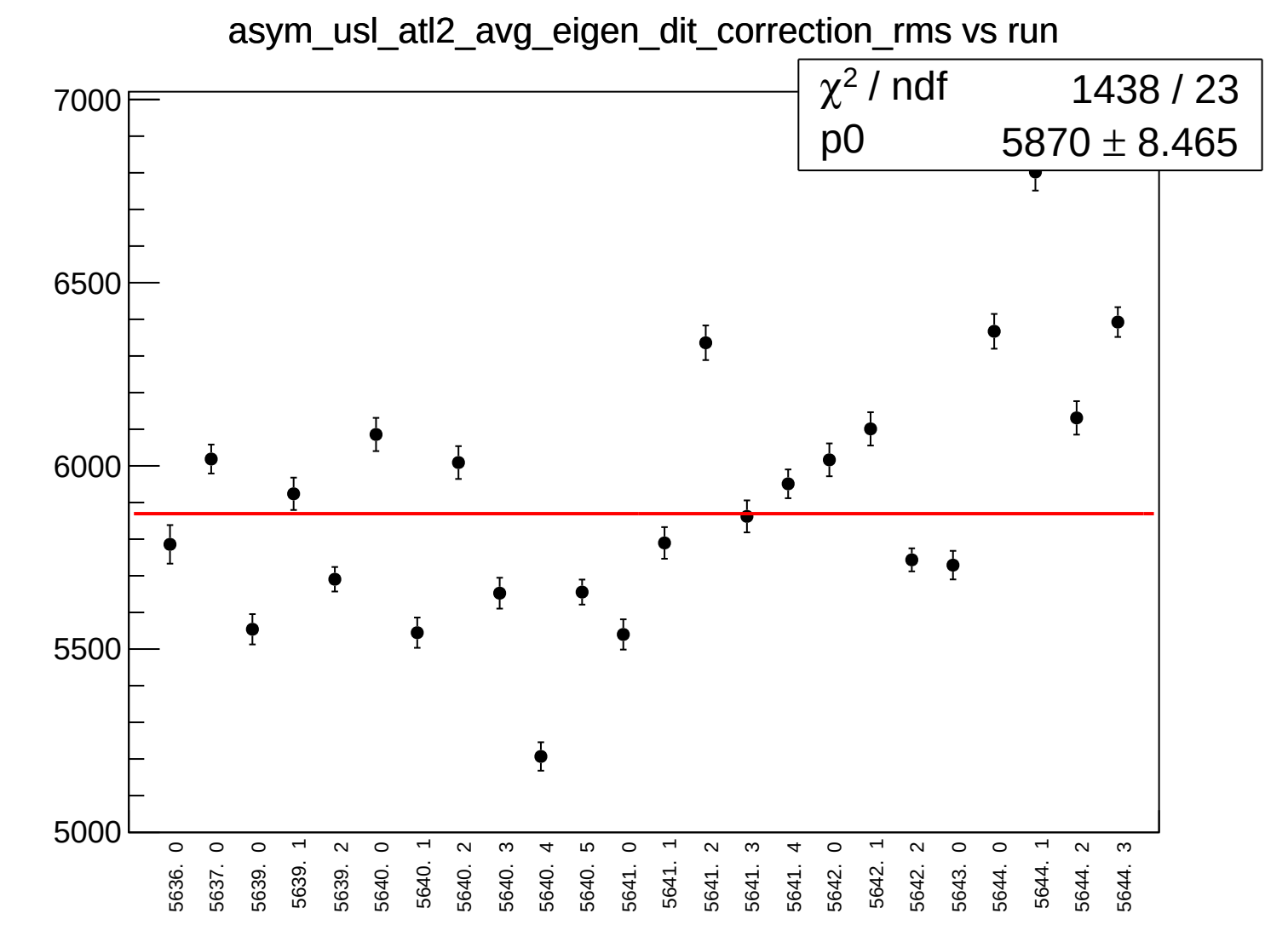
5644. 2
5644. 3


asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 15.4 / 23
p0 −1.033e+04 ± 1.197e+04
150
100
50
0
−50
−100
−150
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −172
Std Dev 0
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean −0.01349
Std Dev 0.8009
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1438 / 23
p0 5870 ± 8.465
7000
6500
6000
5500
5000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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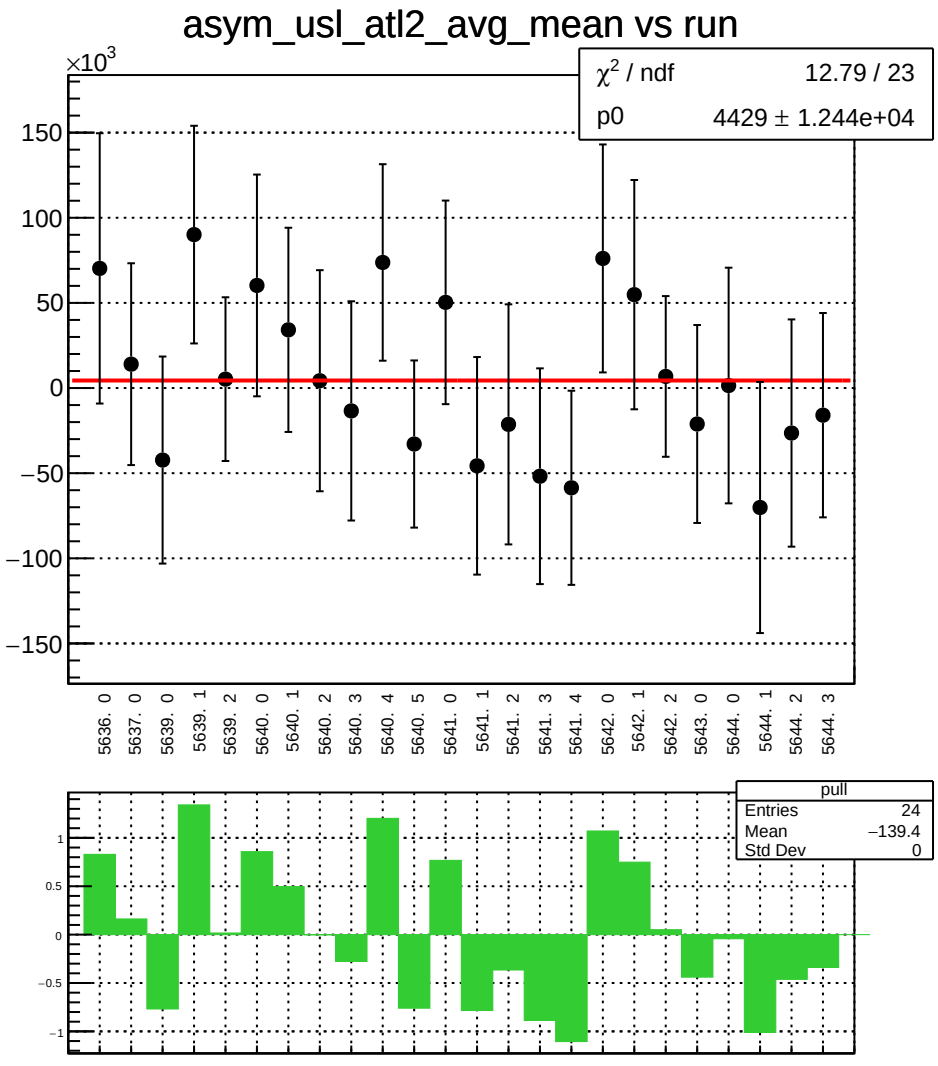
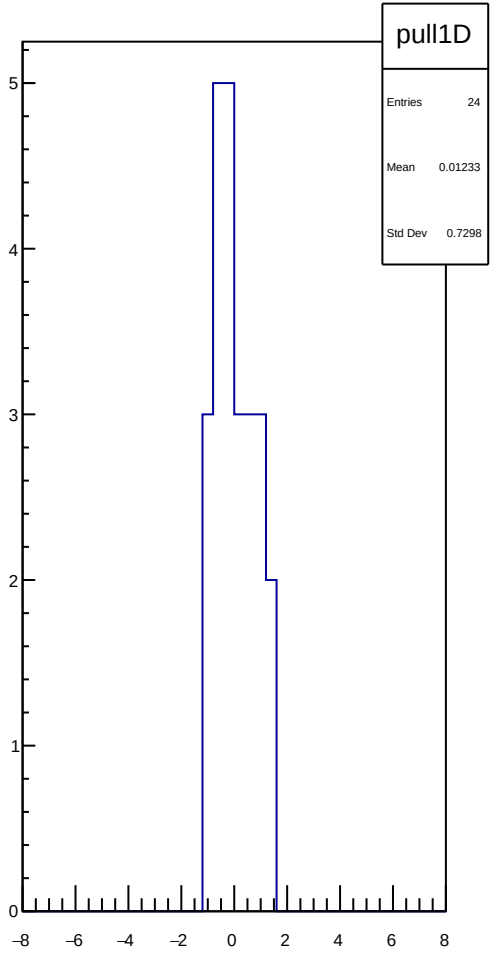
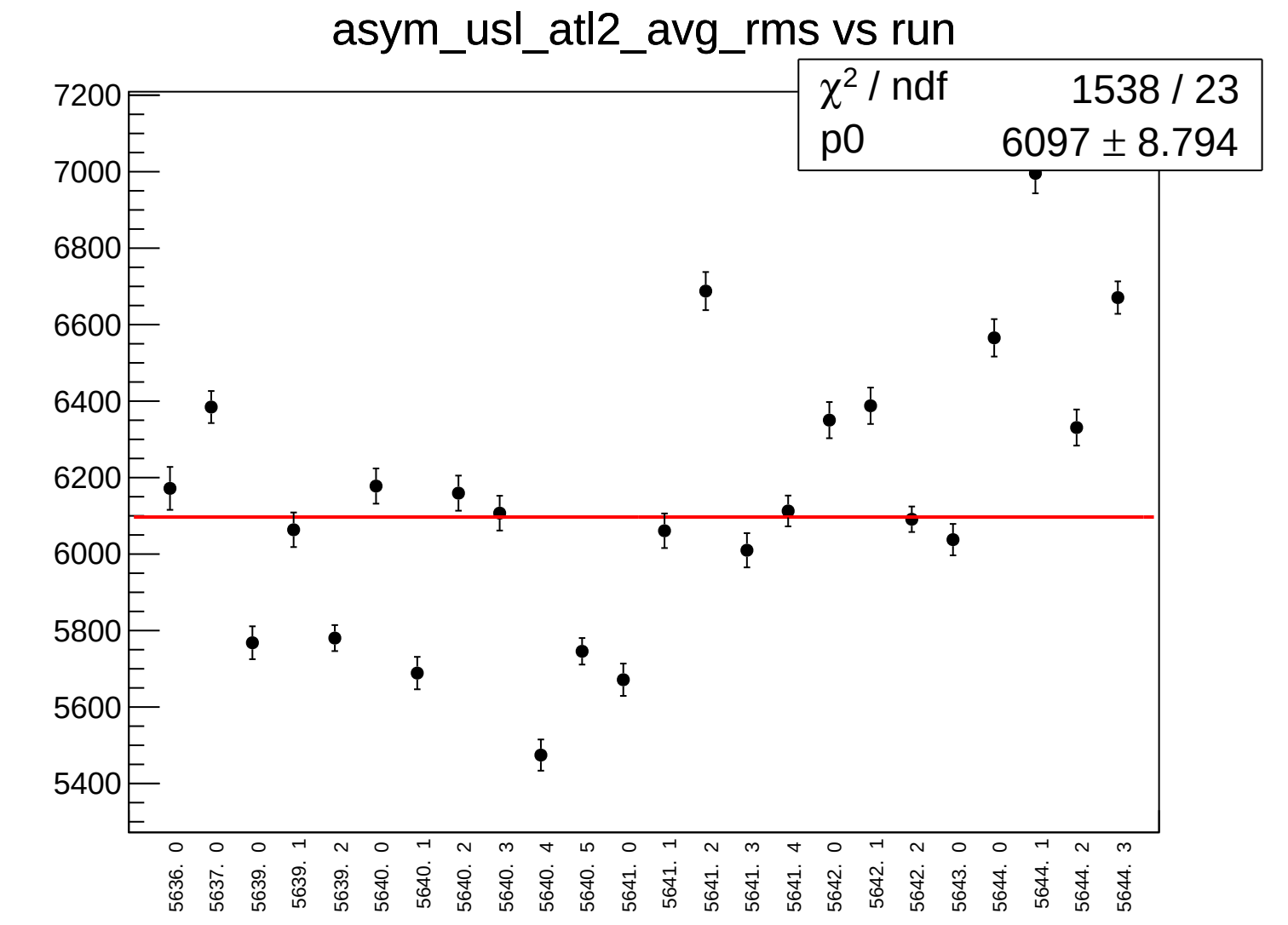
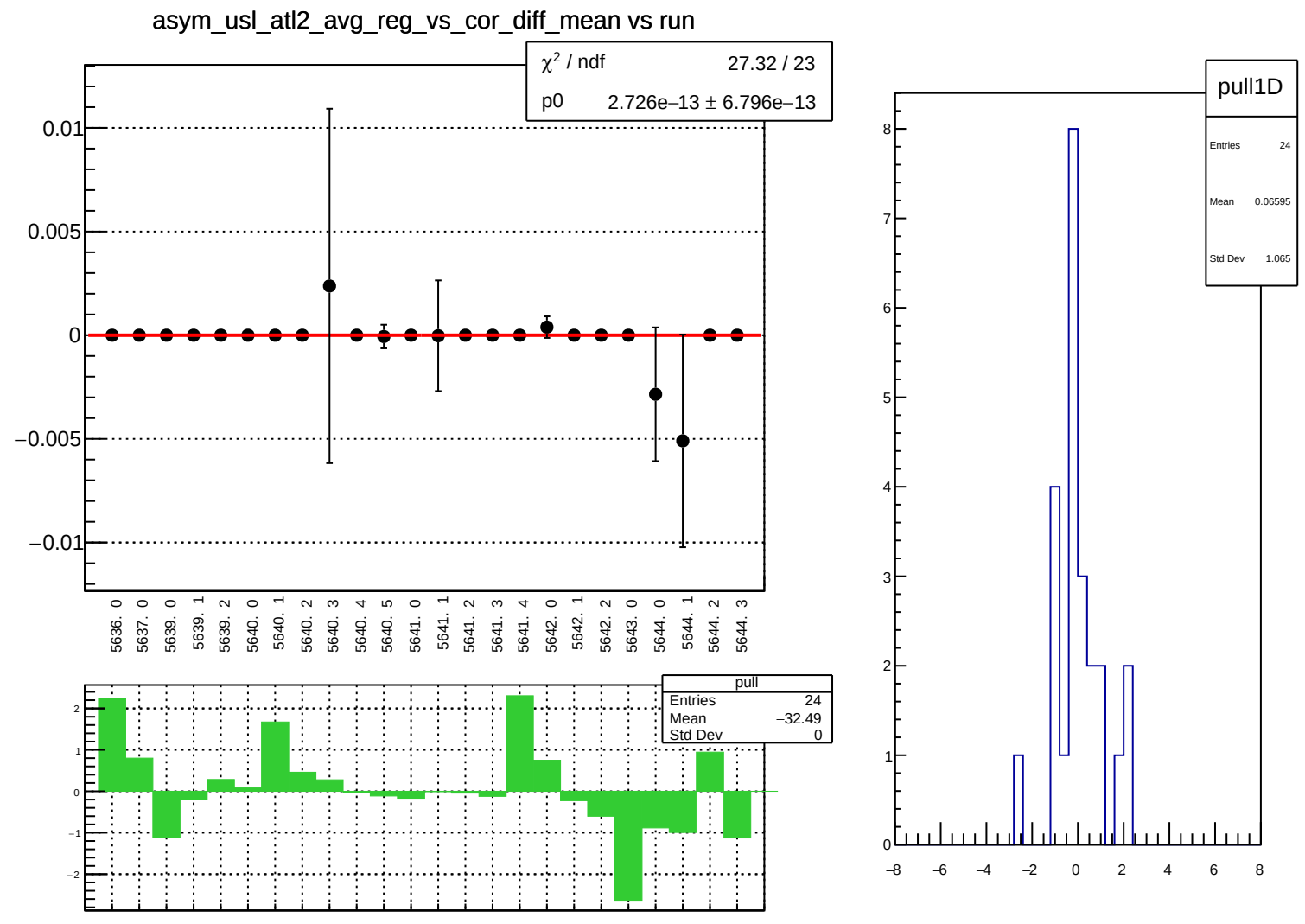
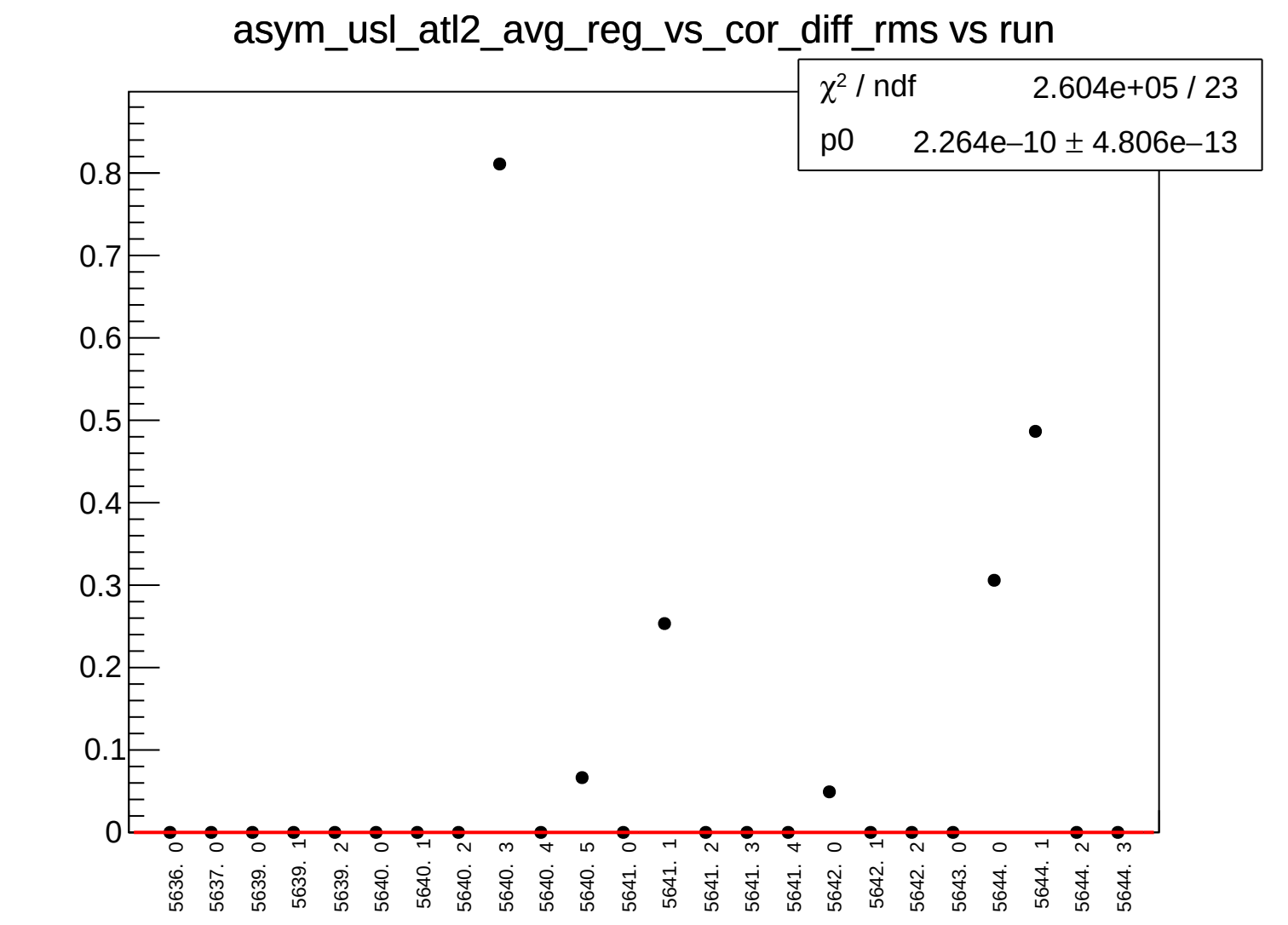
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

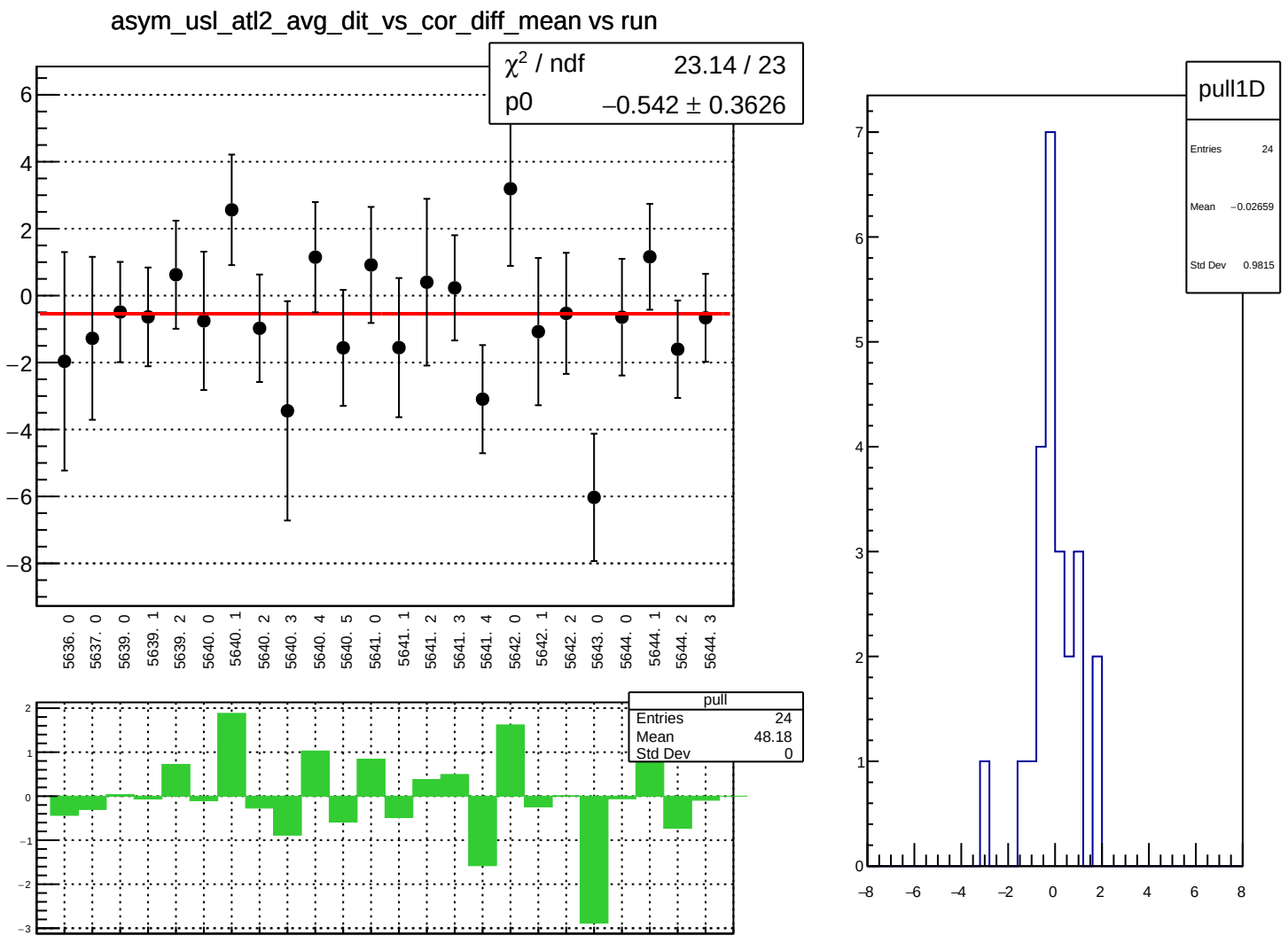

asym_usl_atl2_avg_mean vs run
×10^3
χ² / ndf 12.79 / 23
p0 4429 ± 1.244e+04
150
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −139.4
Std Dev 0
1
0.5
0
−0.5
−1

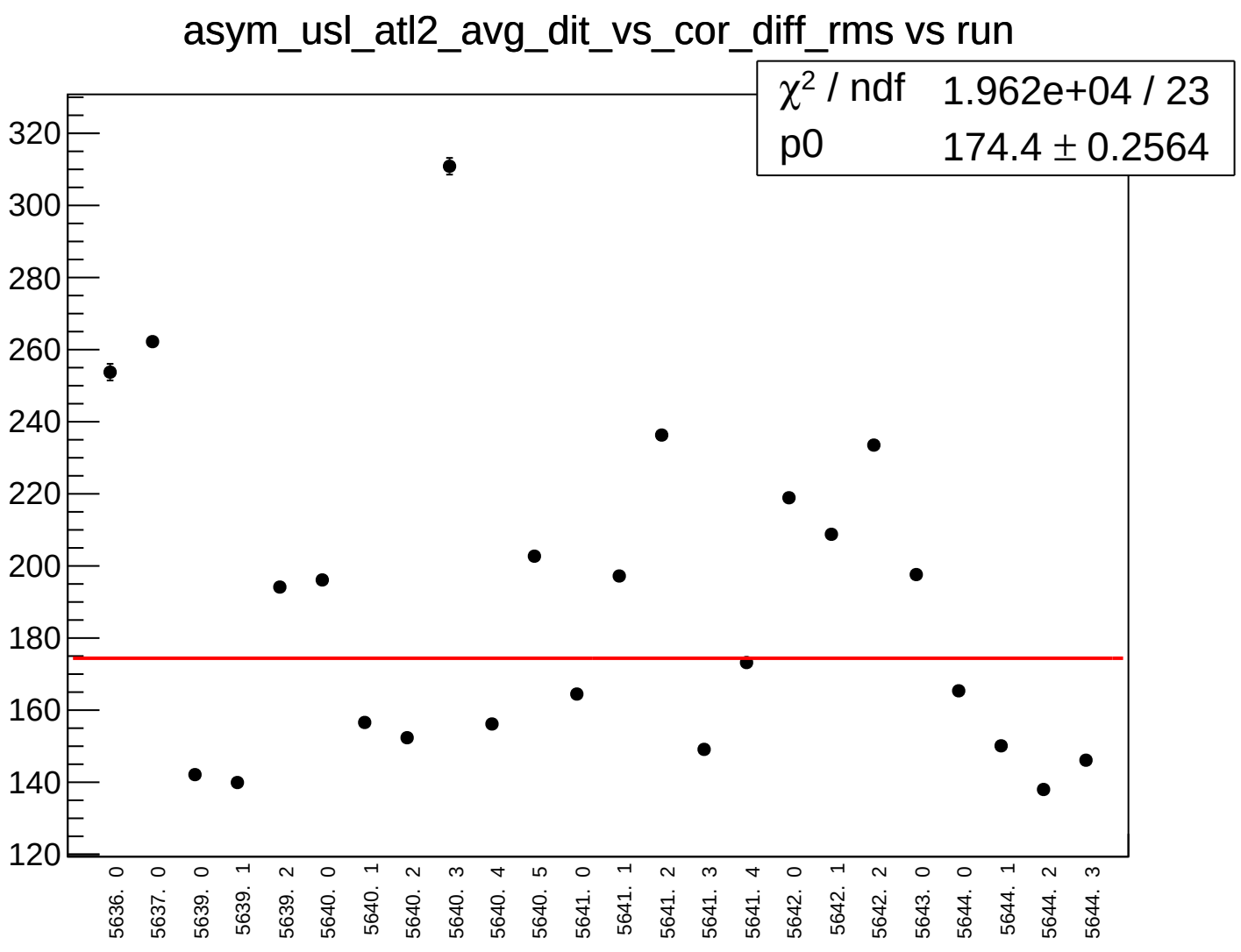

pull1D
Entries 24
Mean 0.01233
Std Dev 0.7298
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

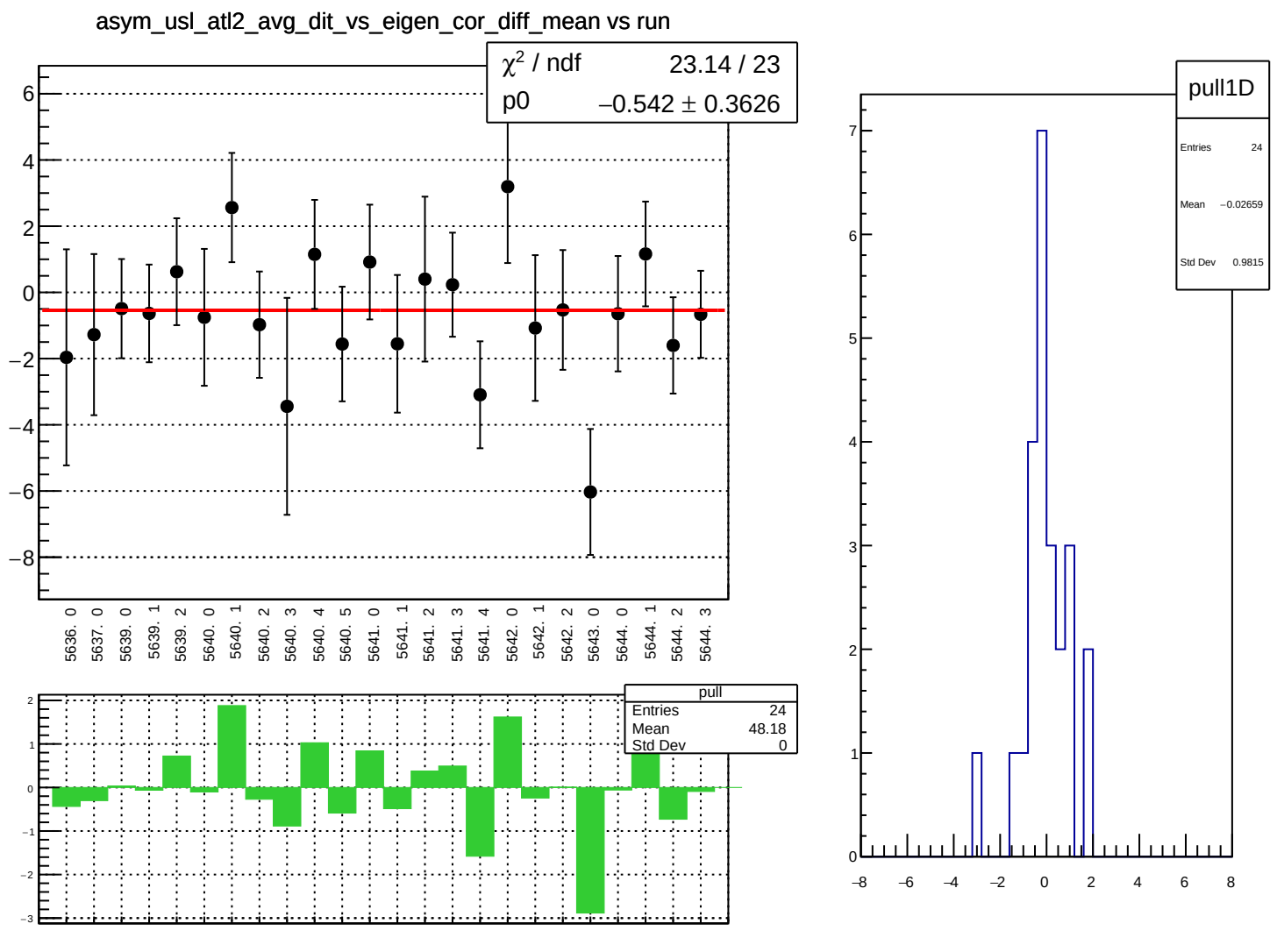

asym_usl_atl2_avg_rms vs run
χ² / ndf 1538 / 23
p0 6097 ± 8.794
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

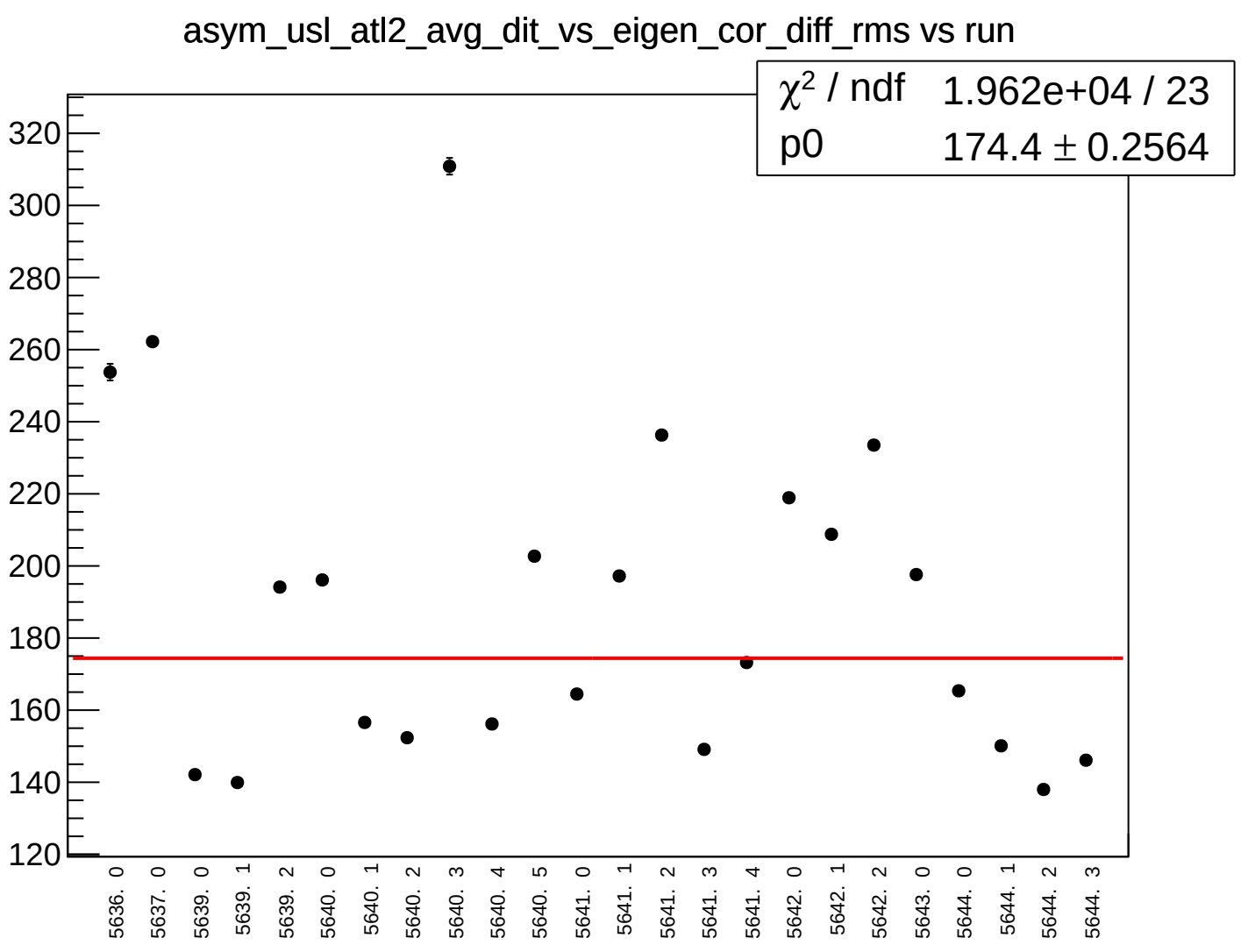

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 27.32 / 23
p0 2.726e−13 ± 6.796e−13
0.01
0.005
0
−0.005
−0.01
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −32.49
Std Dev 0
pull1D
Entries 24
Mean 0.06595
Std Dev 1.065

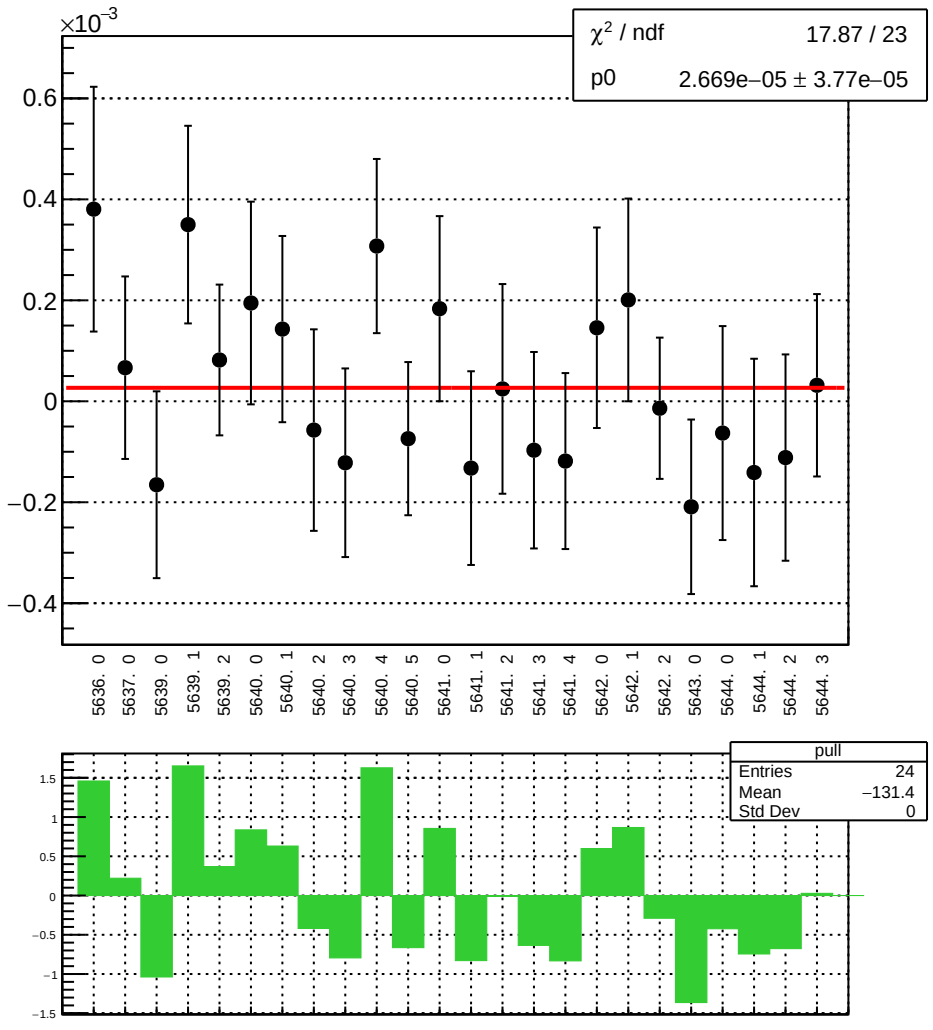

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.604e+05 / 23
p0 2.264e−10 ± 4.806e−13
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

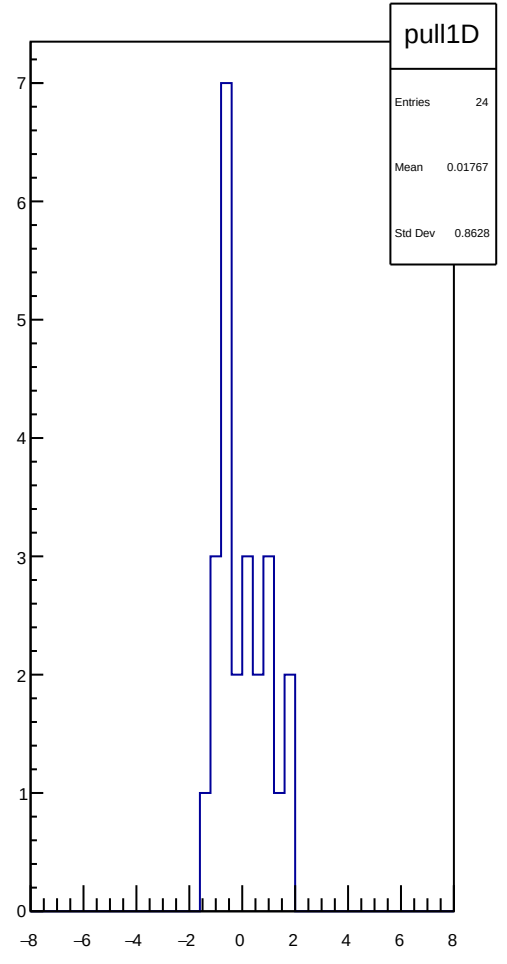

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 23.14 / 23
p0 −0.542 ± 0.3626
6
4
2
0
−2
−4
−6
−8
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 48.18
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean −0.02659
Std Dev 0.9815
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

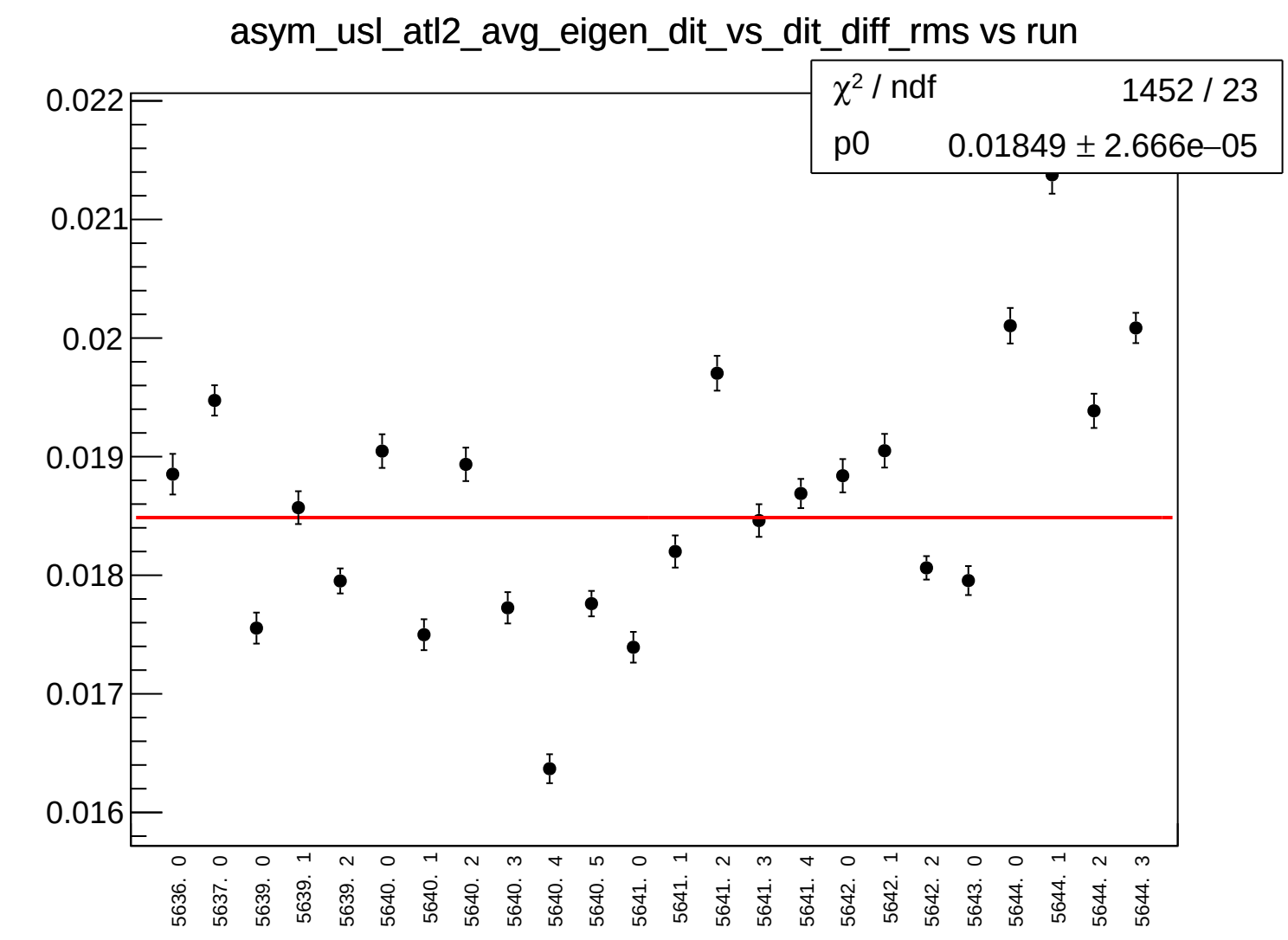

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.962e+04 / 23
p0 174.4 ± 0.2564
320
300
280
260
240
220
200
180
160
140
120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

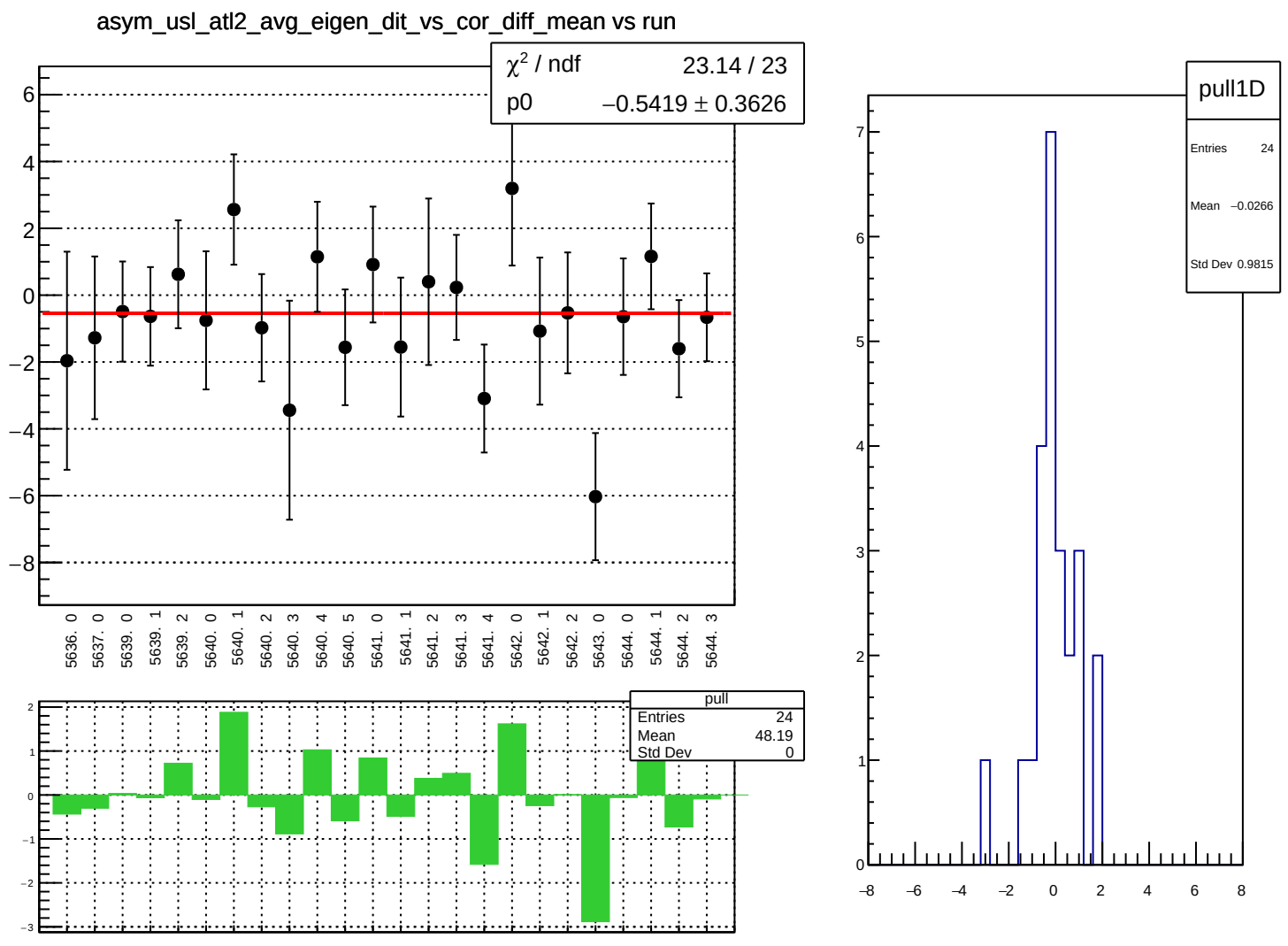

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 23.14 / 23
p0 −0.542 ± 0.3626
6
4
2
0
−2
−4
−6
−8
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 48.18
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean −0.02659
Std Dev 0.9815
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

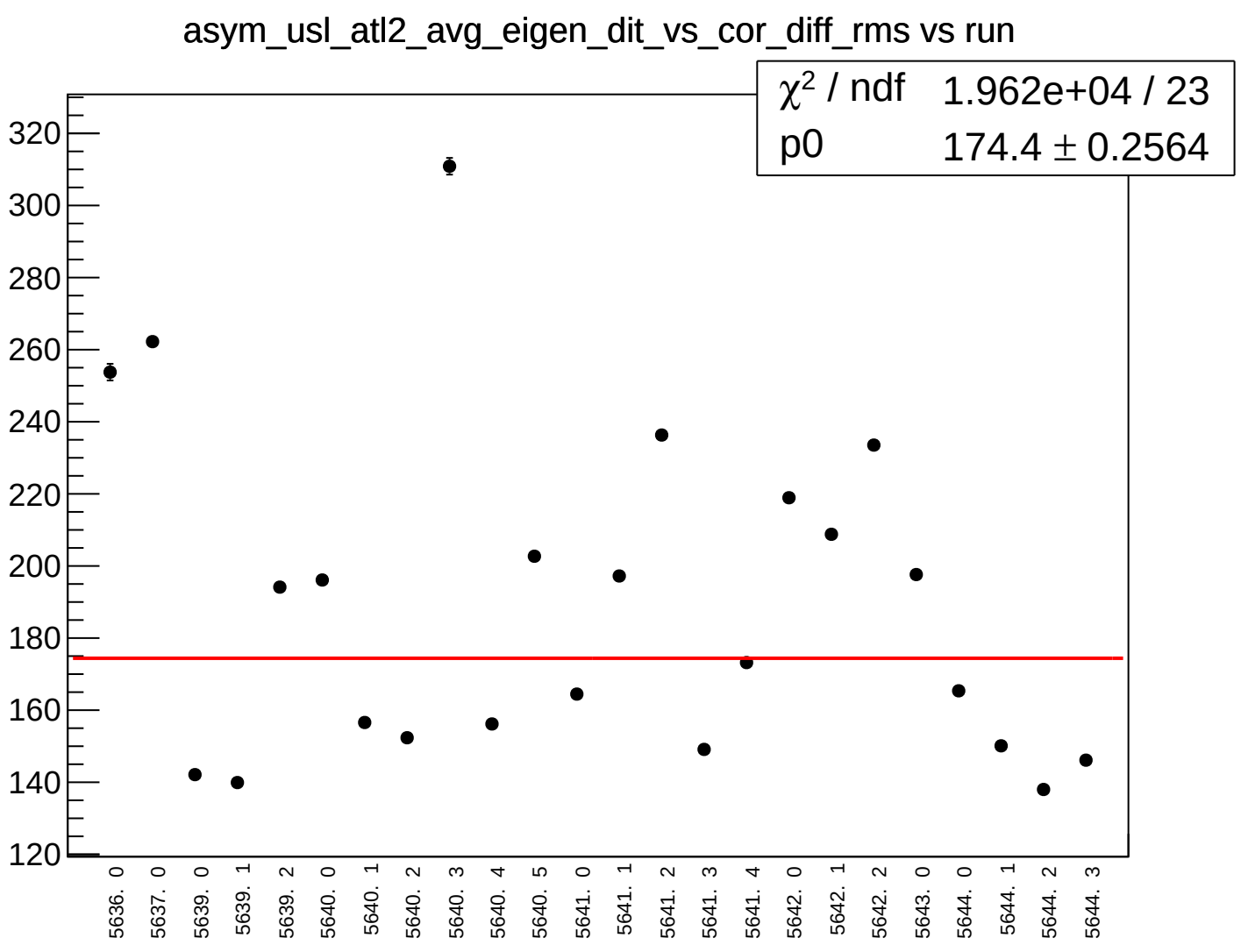

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.962e+04 / 23
p0 174.4 ± 0.2564
320
300
280
260
240
220
200
180
160
140
120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

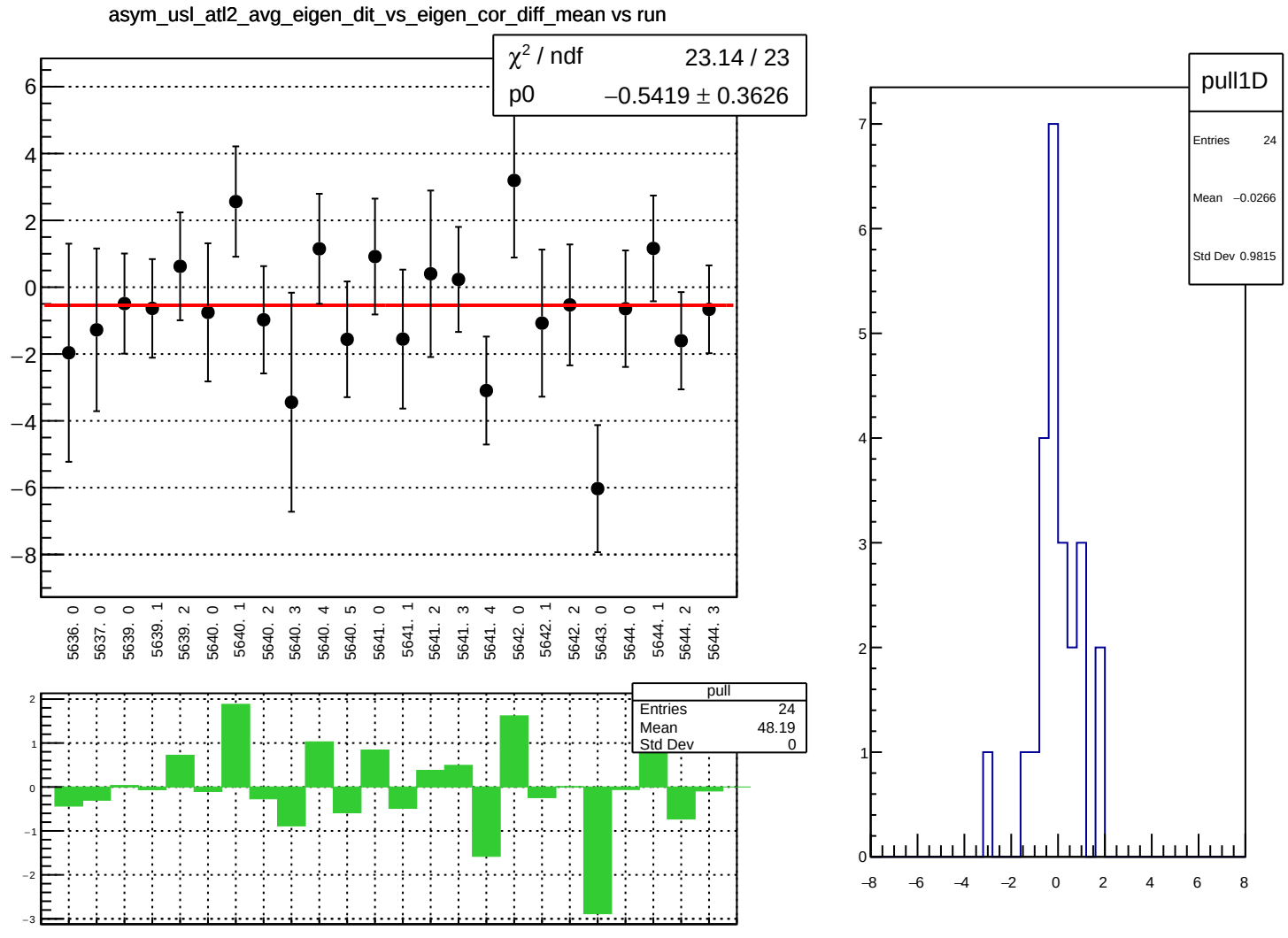

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 17.87 / 23
p0 2.669e−05 ± 3.77e−05
0.6
0.4
0.2
0
−0.2
−0.4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −131.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

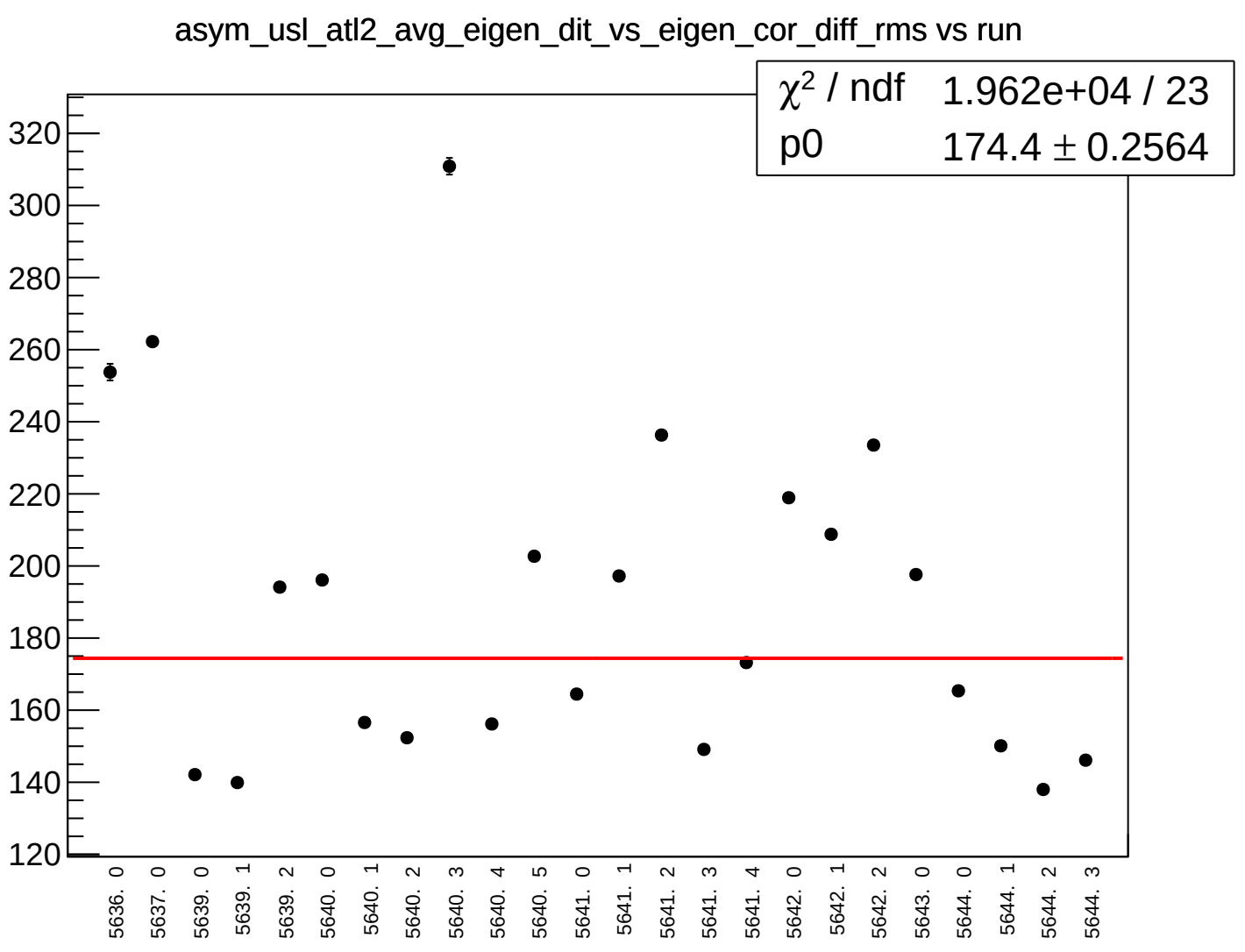

pull1D
Entries 24
Mean 0.01767
Std Dev 0.8628
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

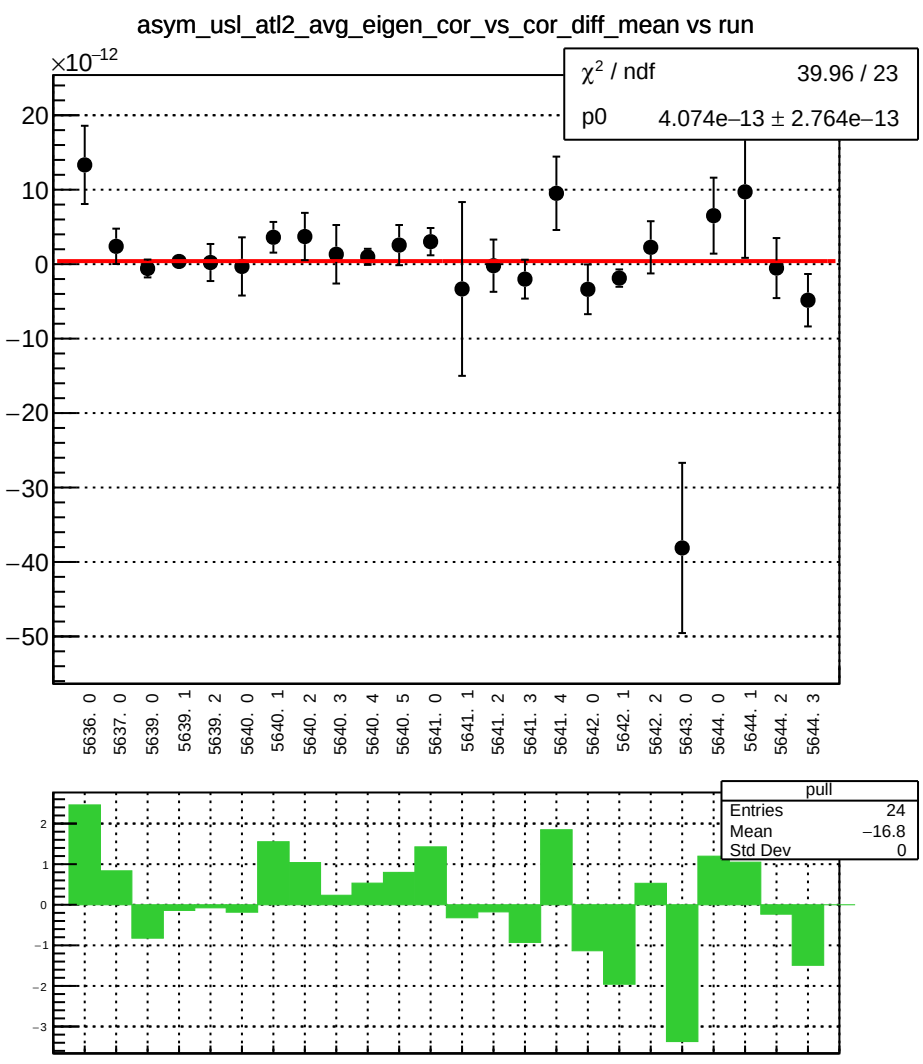

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1452 / 23
p0 0.01849 ± 2.666e−05
0.022
0.021
0.02
0.019
0.018
0.017
0.016
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

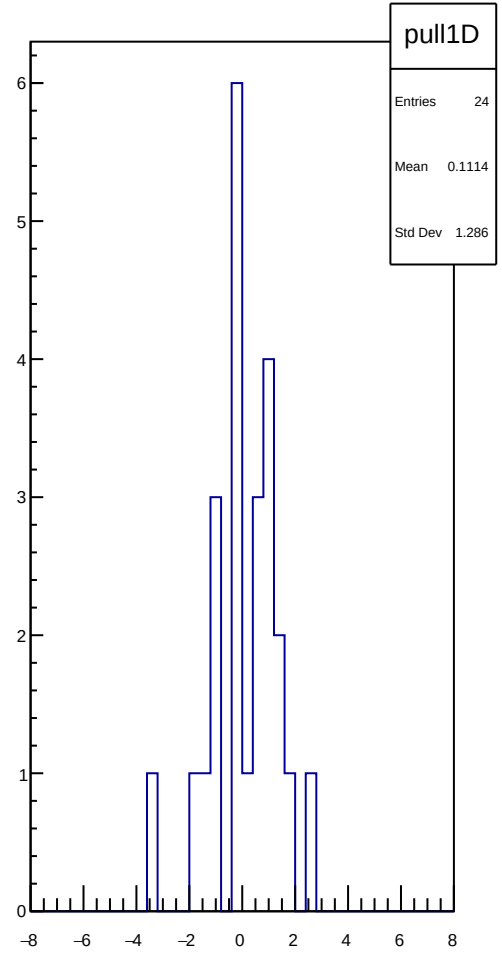

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 23.14 / 23
p0 −0.5419 ± 0.3626
6
4
2
0
−2
−4
−6
−8
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 48.19
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean −0.0266
Std Dev 0.9815
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

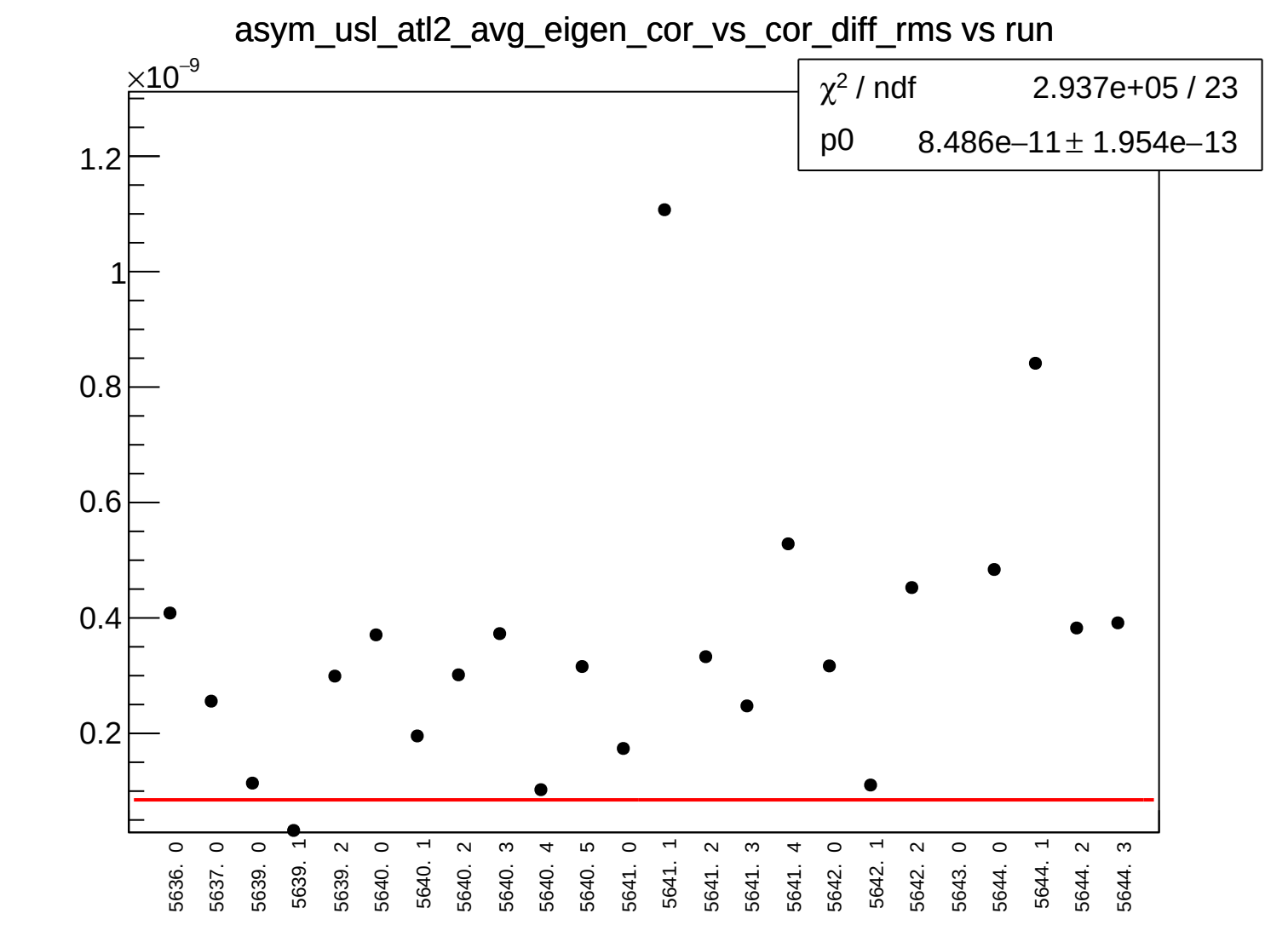

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.962e+04 / 23
p0 174.4 ± 0.2564
320
300
280
260
240
220
200
180
160
140
120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

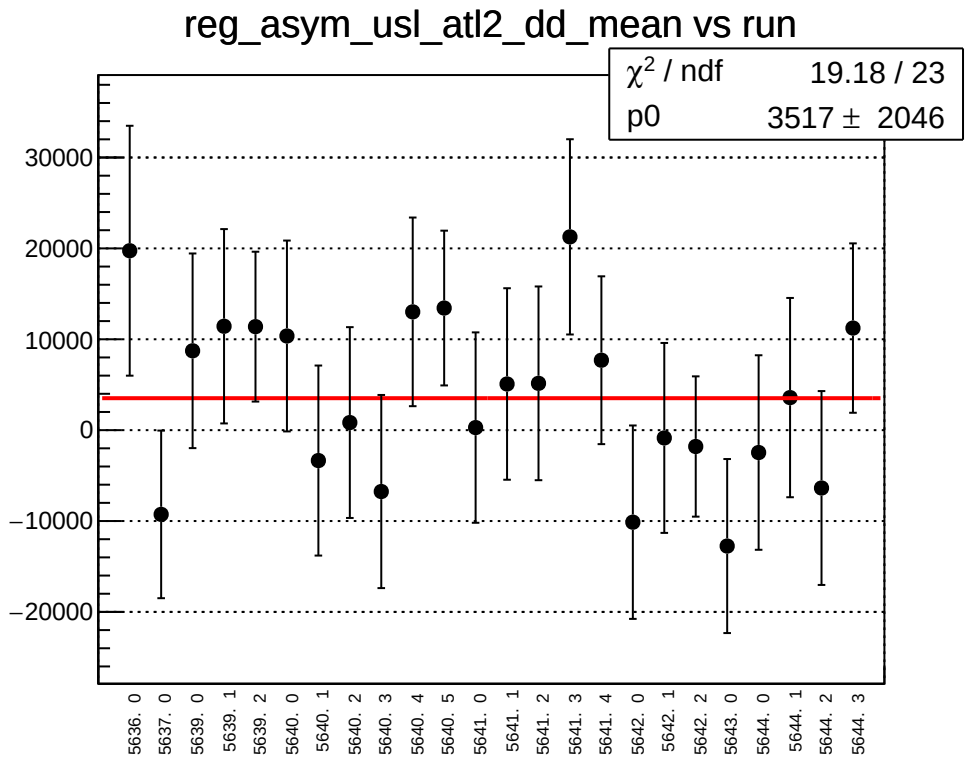

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 23.14 / 23
p0 −0.5419 ± 0.3626
6
4
2
0
−2
−4
−6
−8
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 48.19
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean −0.0266
Std Dev 0.9815
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

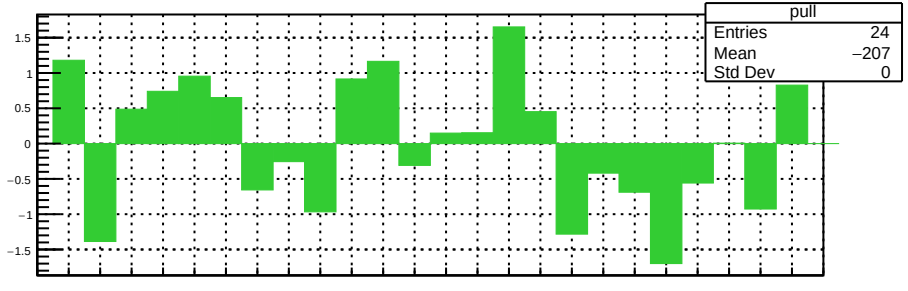

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.962e+04 / 23
p0 174.4 ± 0.2564
320
300
280
260
240
220
200
180
160
140
120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

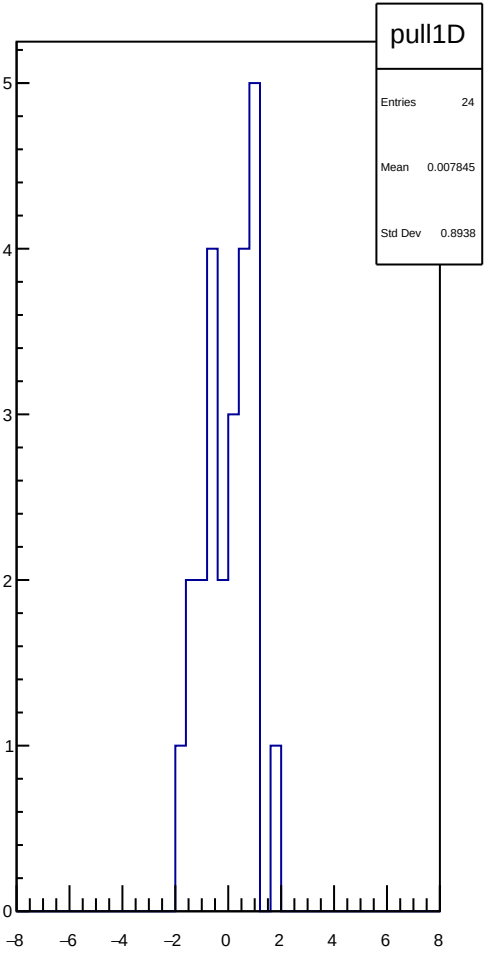

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 39.96 / 23
p0 4.074e−13 ± 2.764e−13
20
10
0
−10
−20
−30
−40
−50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −16.8
Std Dev 0
2
1
0
−1
−2
−3

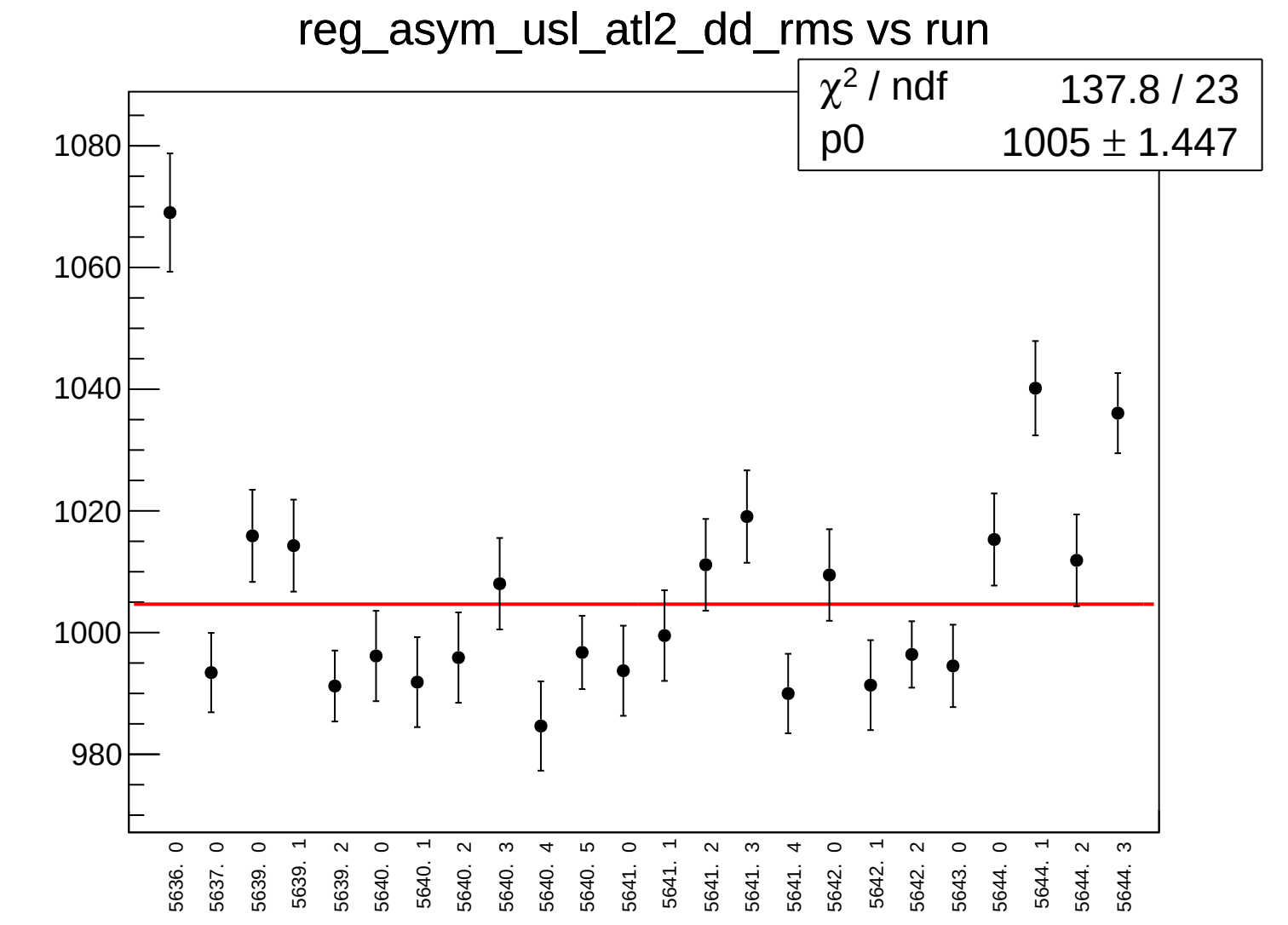

pull1D
Entries 24
Mean 0.1114
Std Dev 1.286
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

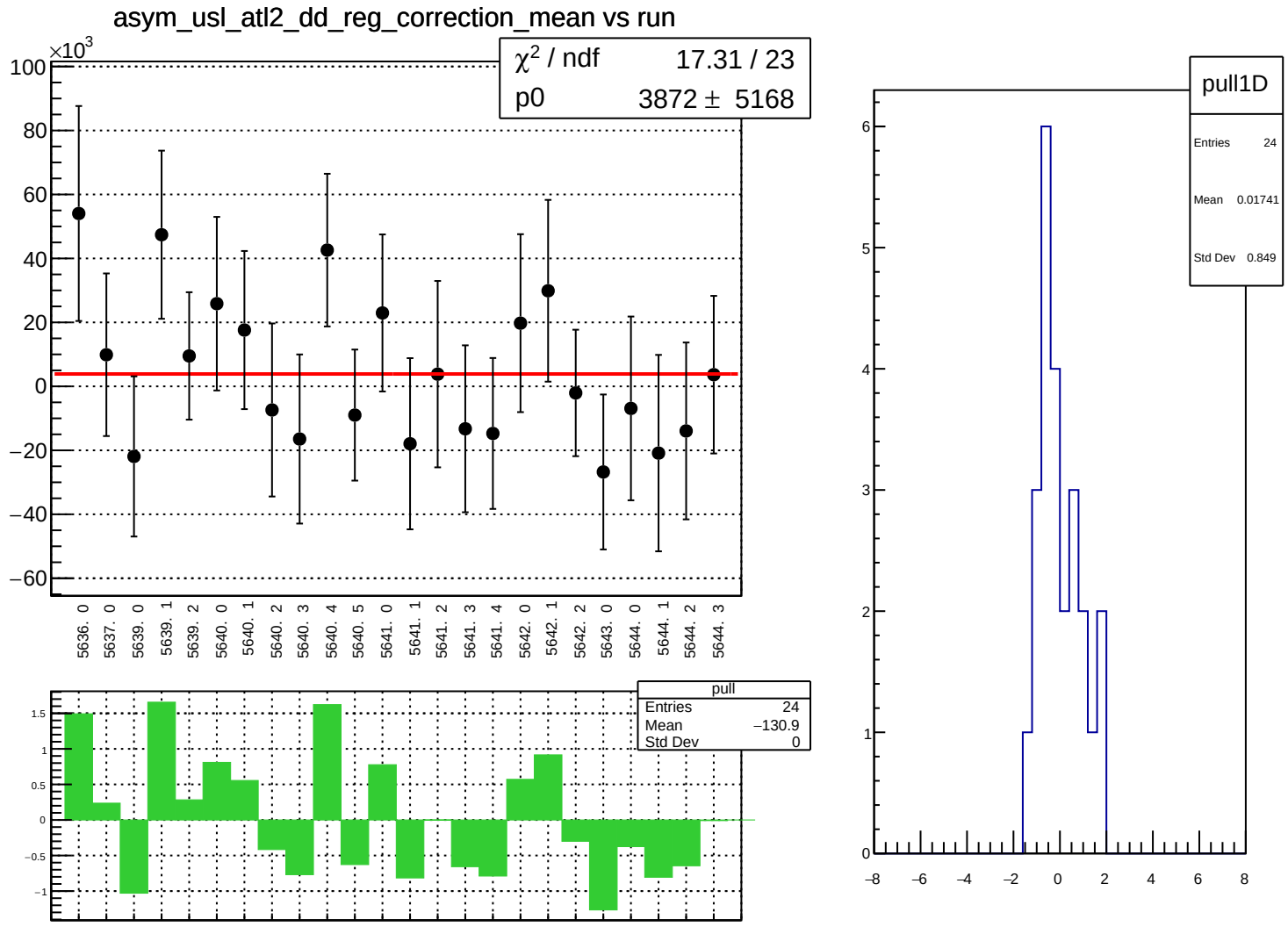

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.937e+05 / 23
p0 8.486e−11 ± 1.954e−13
1.2
1
0.8
0.6
0.4
0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

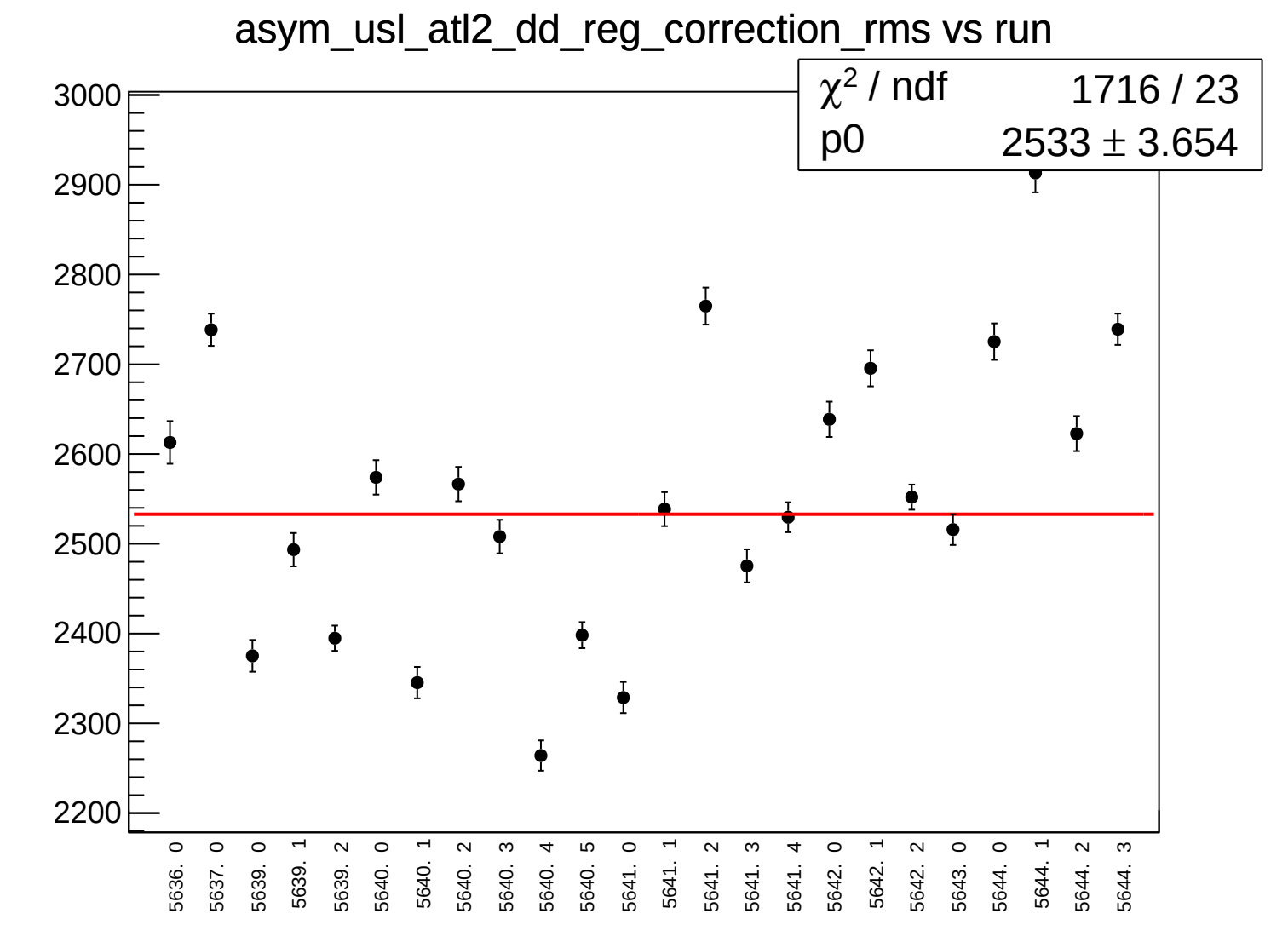

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 19.18 / 23
p0 3517 ± 2046
30000
20000
10000
0
−10000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

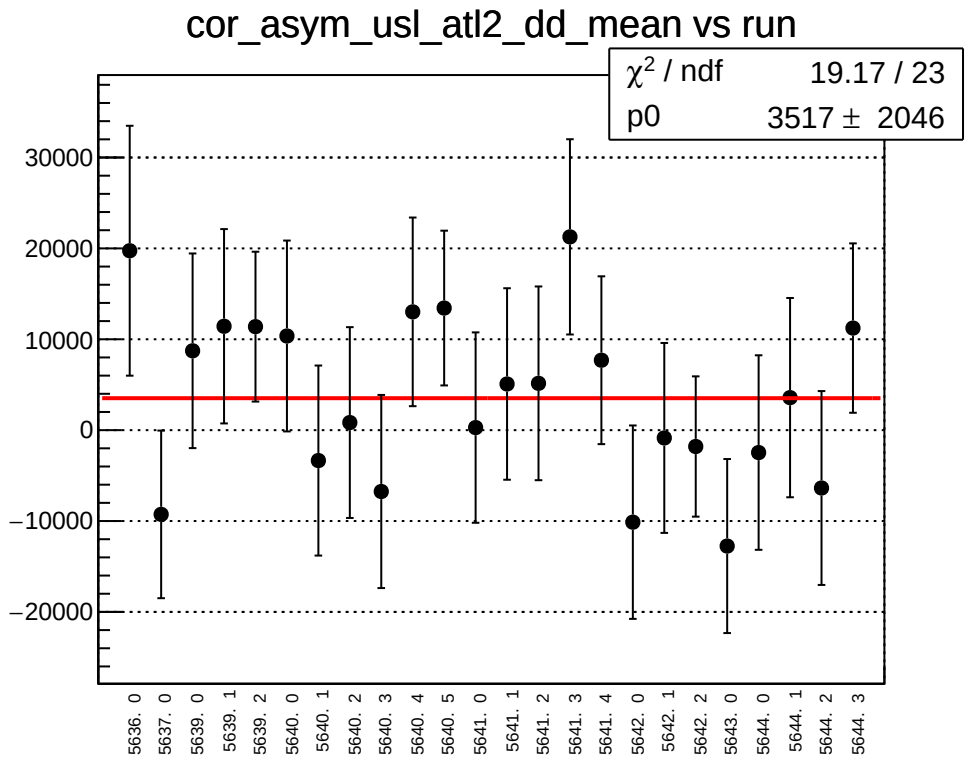

pull
Entries 24
Mean −207
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

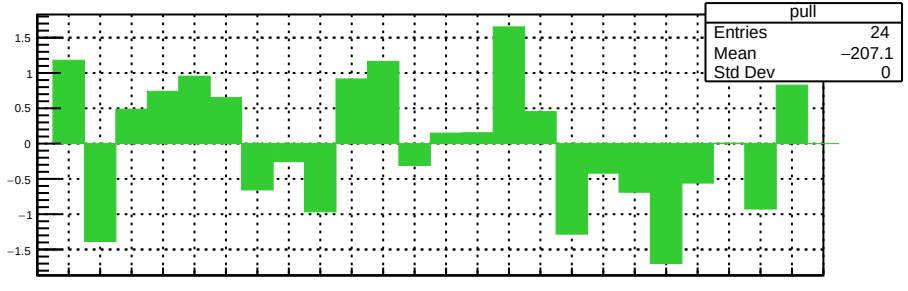

pull1D
Entries 24
Mean 0.007845
Std Dev 0.8938
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

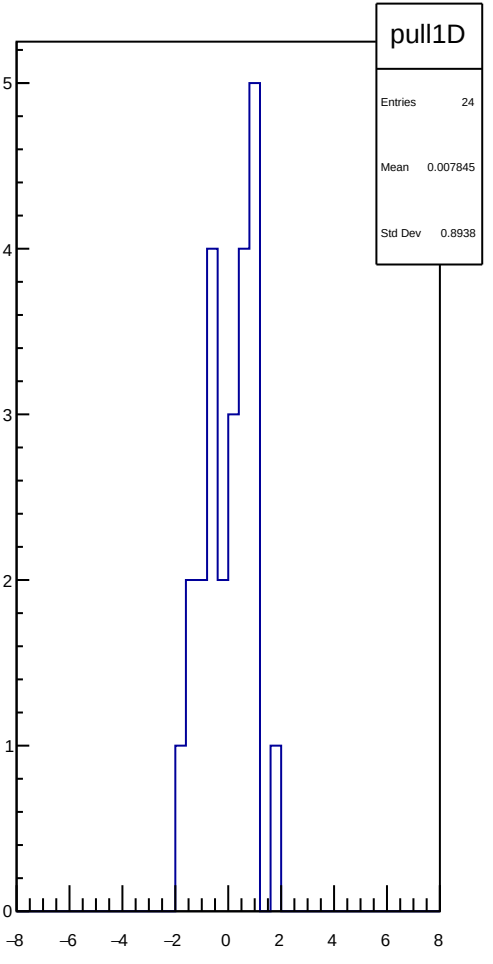

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 137.8 / 23
p0 1005 ± 1.447
1080
1060
1040
1020
1000
980
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

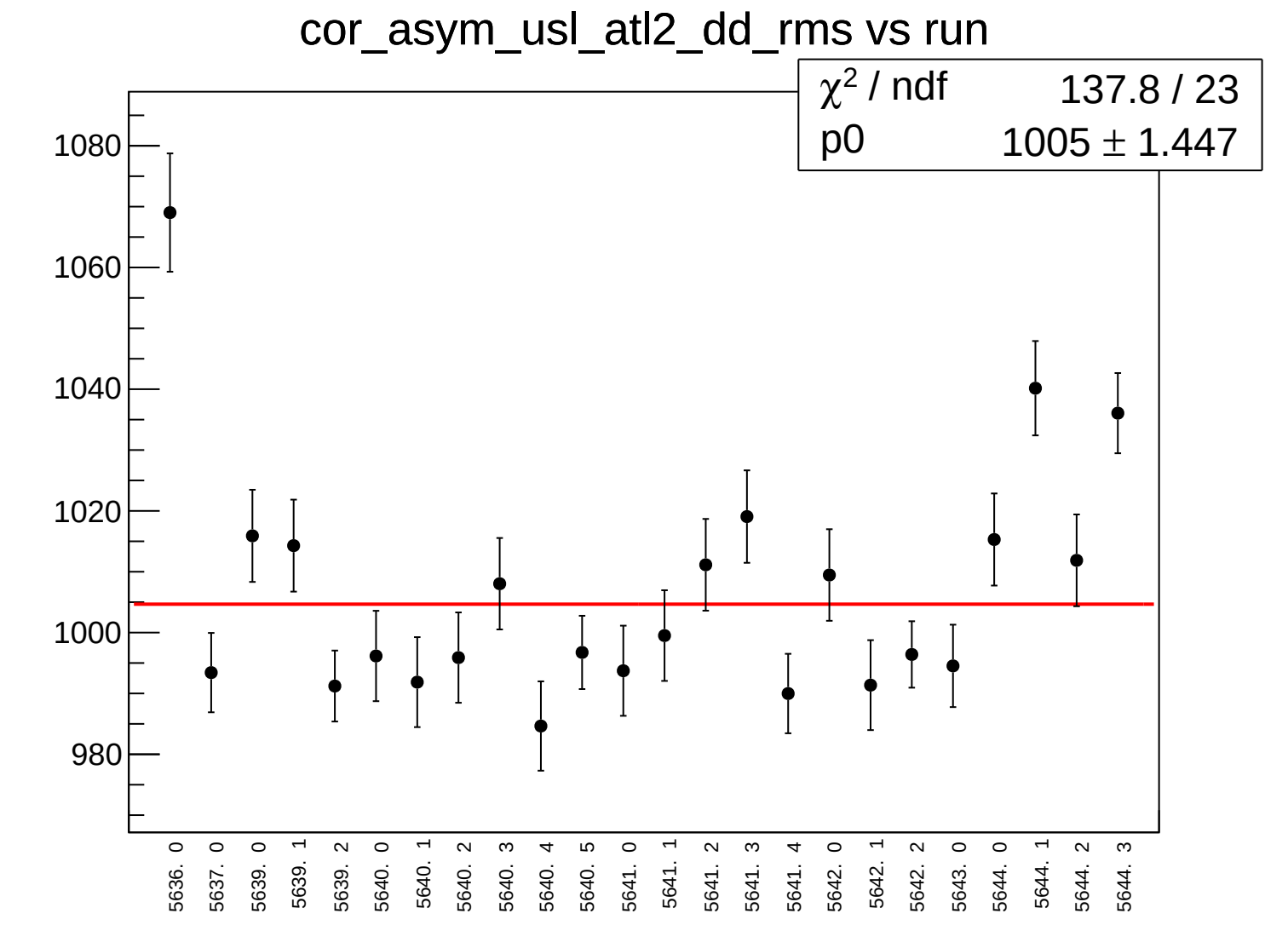

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 17.31 / 23
p0 3872 ± 5168
100
80
60
40
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −130.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.01741
Std Dev 0.849
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 1716 / 23
p0 2533 ± 3.654
3000
2900
2800
2700
2600
2500
2400
2300
2200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 19.17 / 23
p0 3517 ± 2046
30000
20000
10000
0
−10000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


pull
Entries 24
Mean −207.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean 0.007845
Std Dev 0.8938
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 137.8 / 23
p0 1005 ± 1.447
1080
1060
1040
1020
1000
980
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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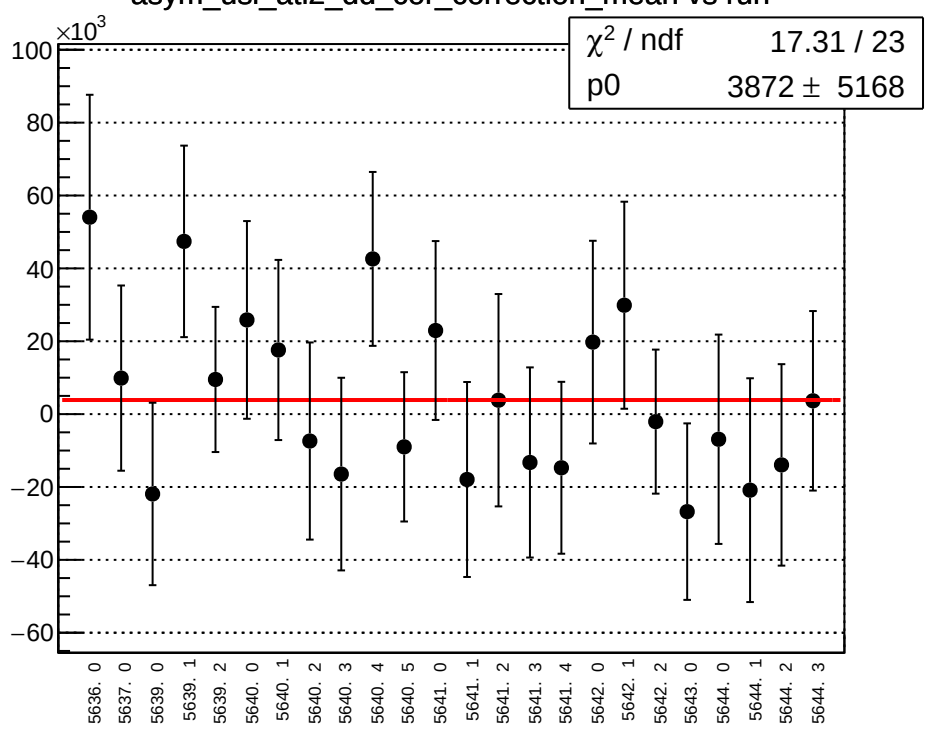
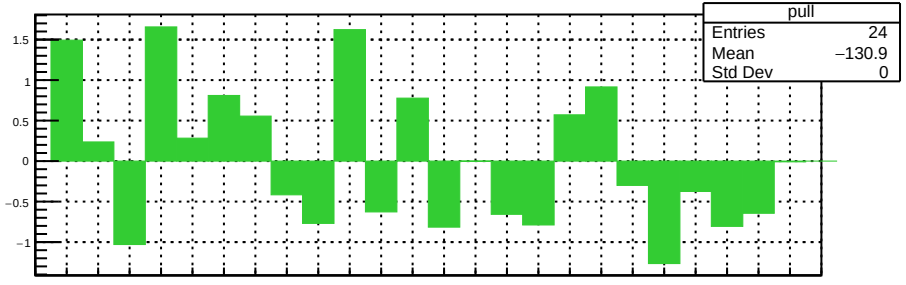
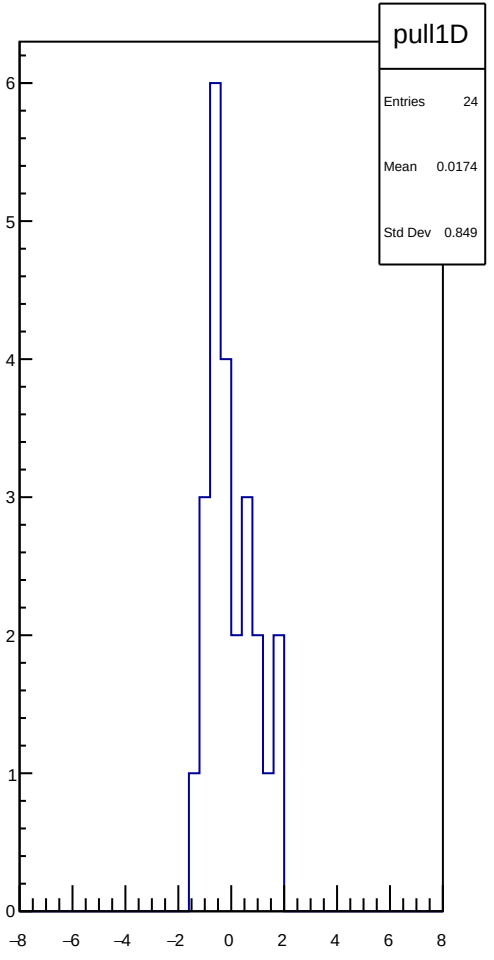
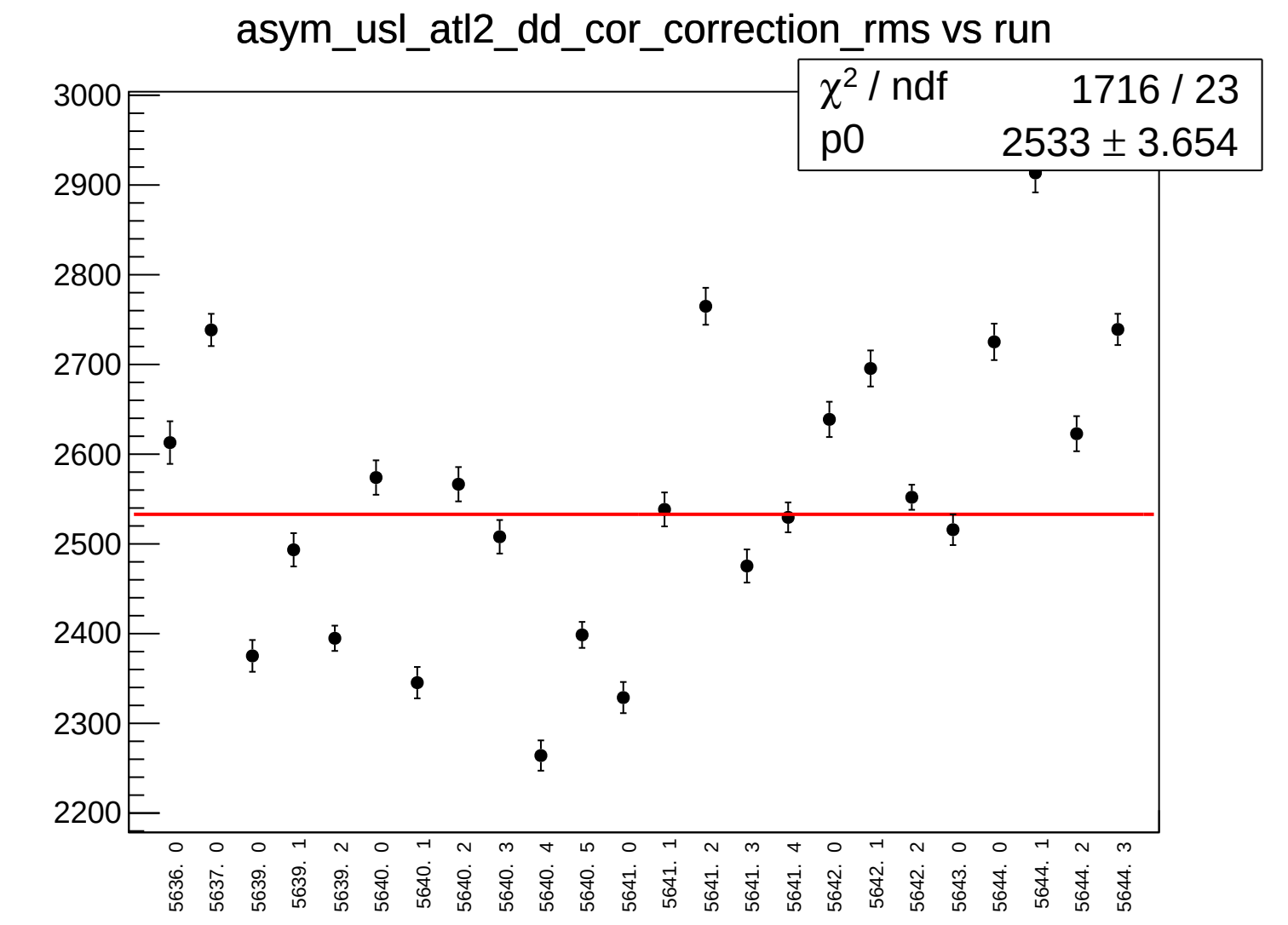
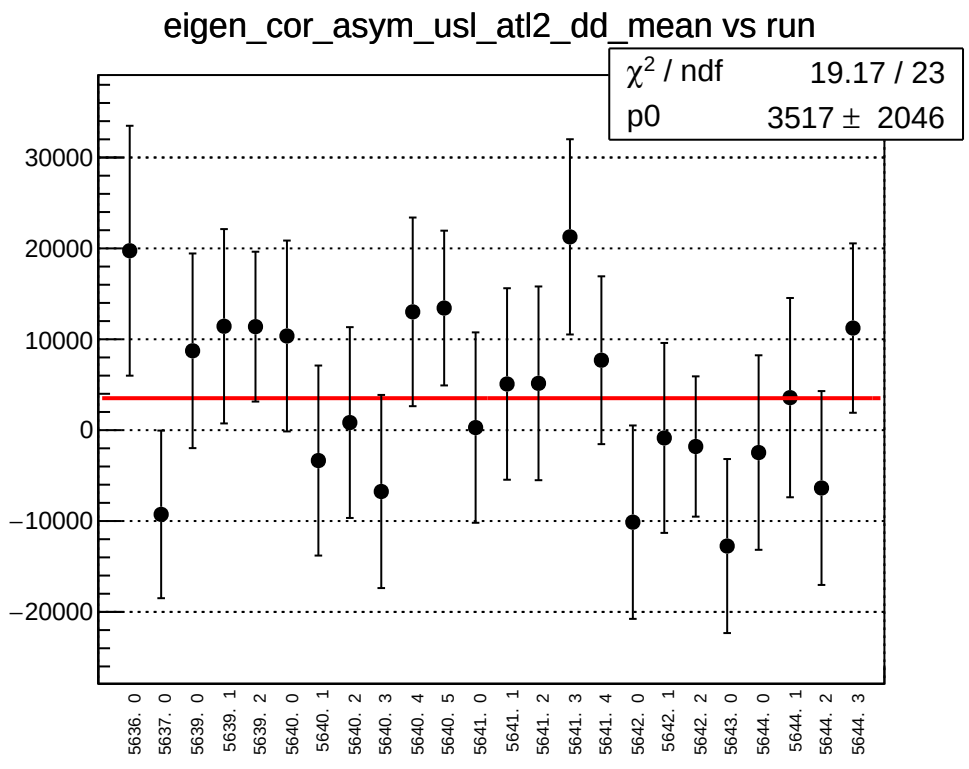
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_usl_atl2_dd_cor_correction_mean vs run
χ² / ndf 17.31 / 23
p0 3872 ± 5168
×10³
100
80
60
40
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


pull
Entries 24
Mean −130.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 24
Mean 0.0174
Std Dev 0.849
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 1716 / 23
p0 2533 ± 3.654
3000
2900
2800
2700
2600
2500
2400
2300
2200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 19.17 / 23
p0 3517 ± 2046
30000
20000
10000
0
−10000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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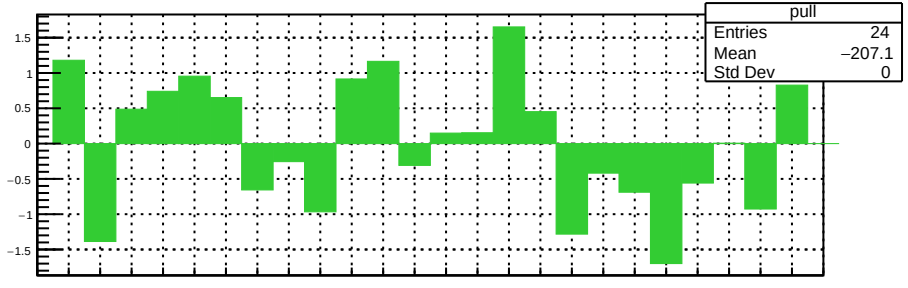
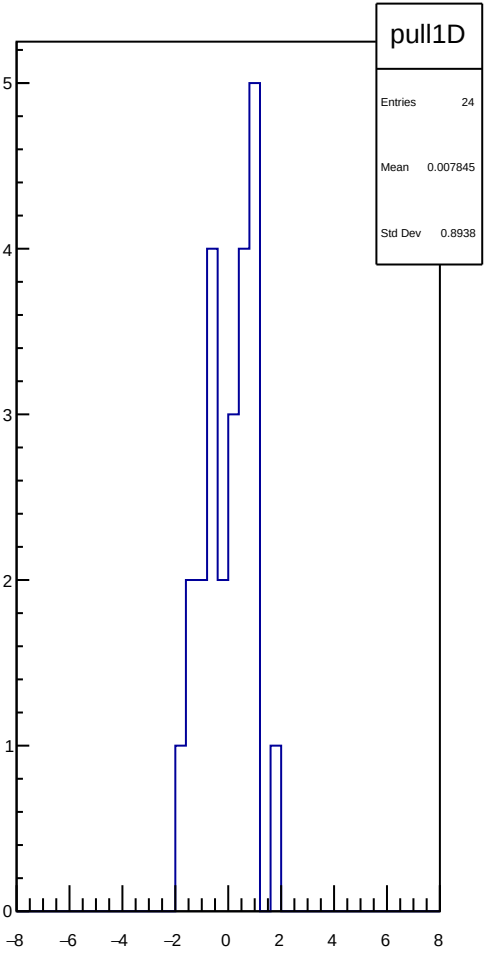
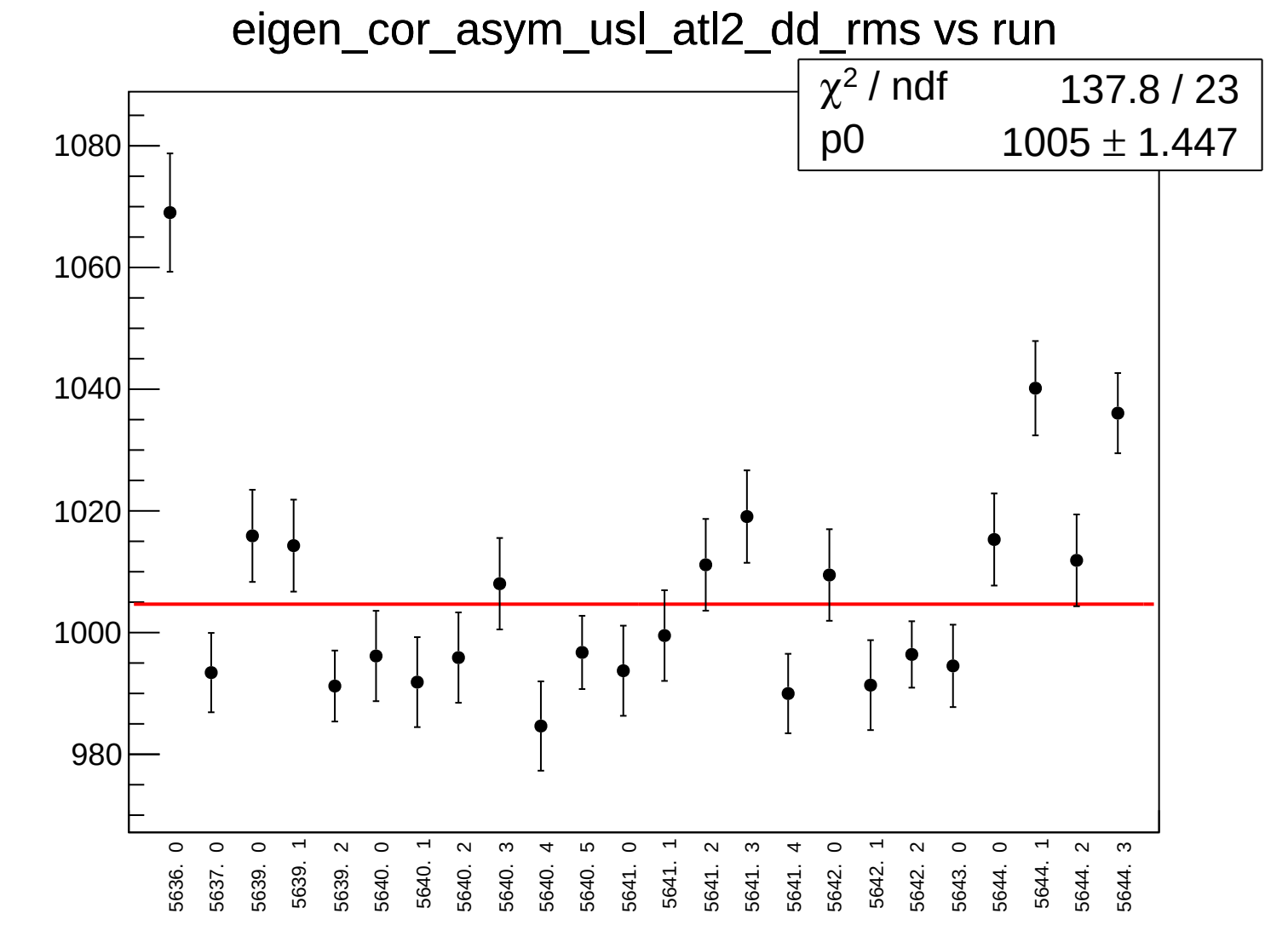
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


pull
Entries 24
Mean −207.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean 0.007845
Std Dev 0.8938
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 137.8 / 23
p0 1005 ± 1.447
1080
1060
1040
1020
1000
980
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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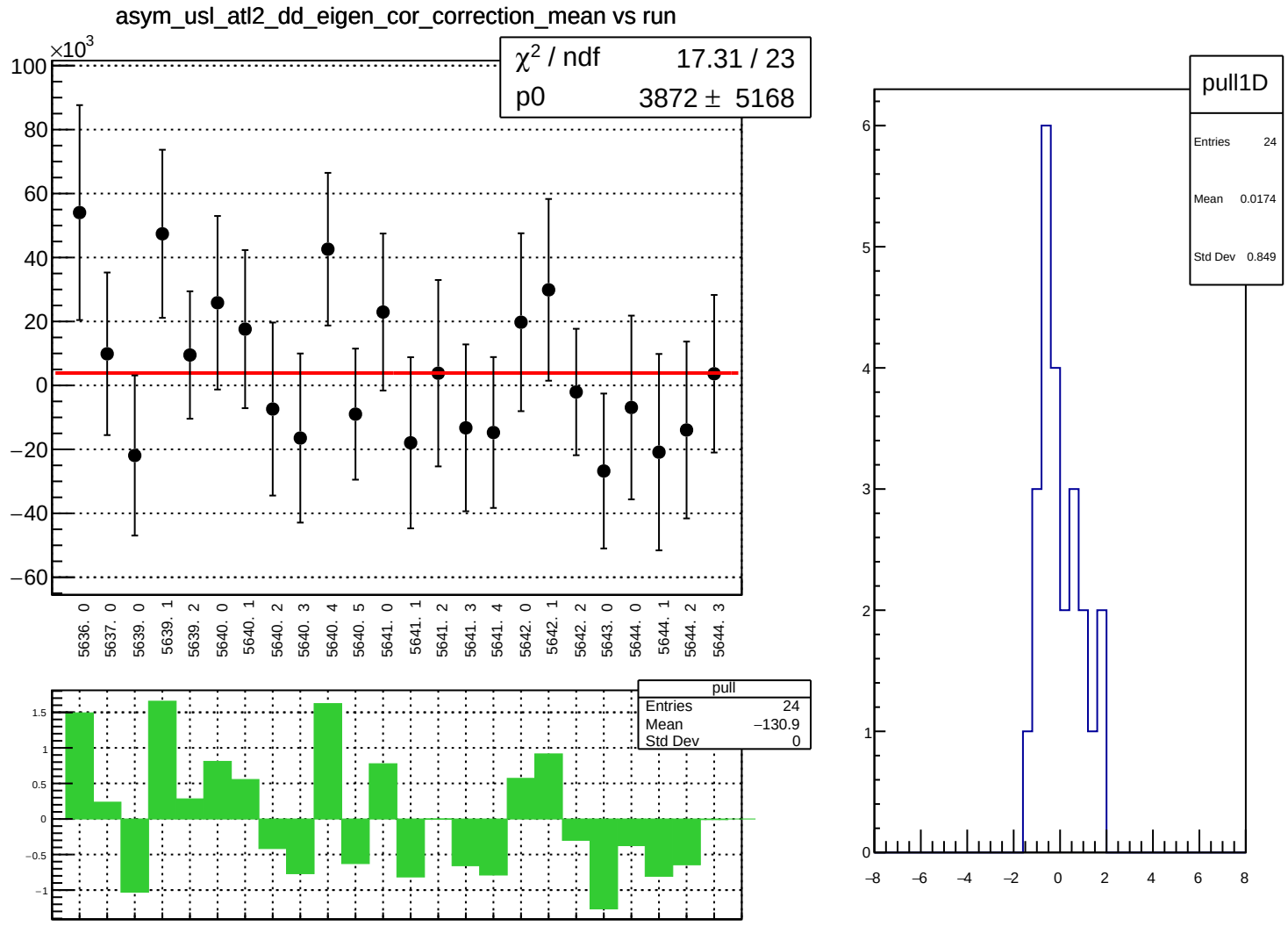
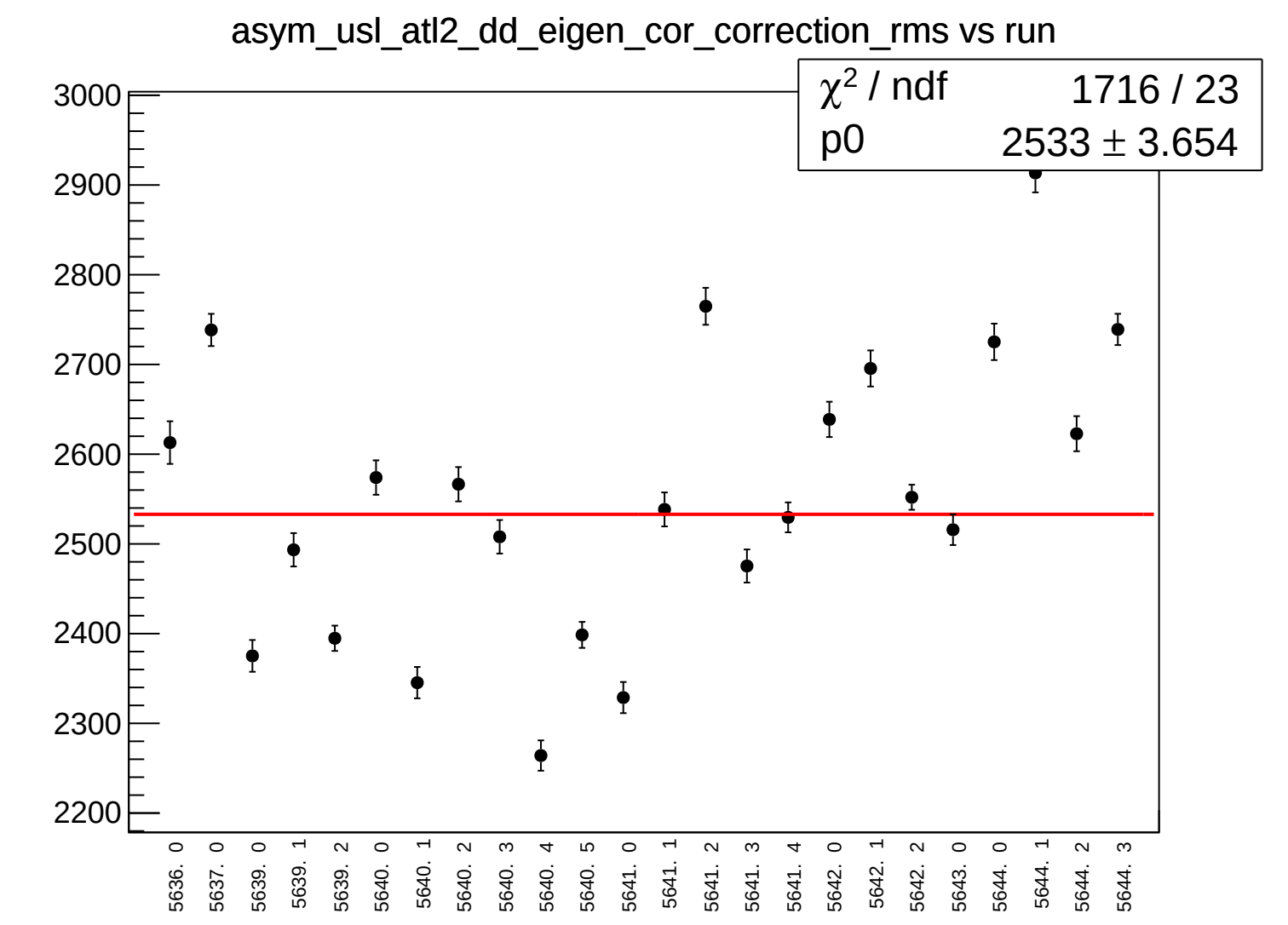
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 17.31 / 23
p0 3872 ± 5168
100
80
60
40
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −130.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.0174
Std Dev 0.849
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1716 / 23
p0 2533 ± 3.654
3000
2900
2800
2700
2600
2500
2400
2300
2200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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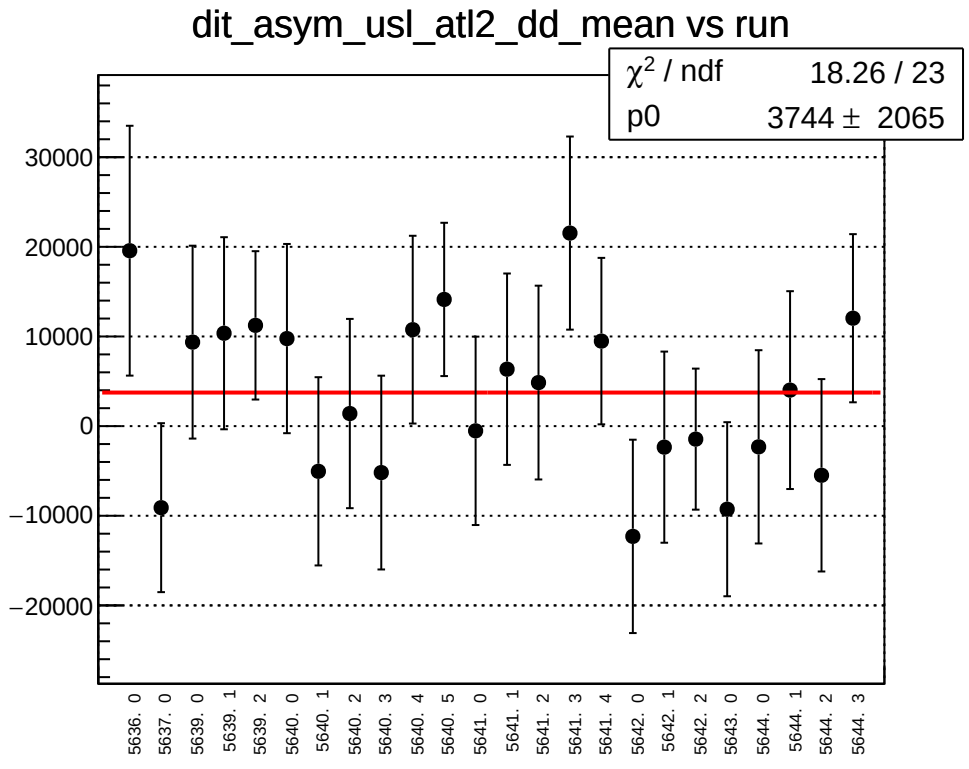
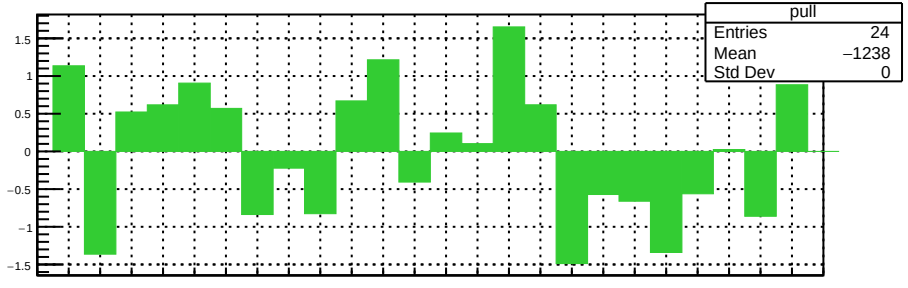
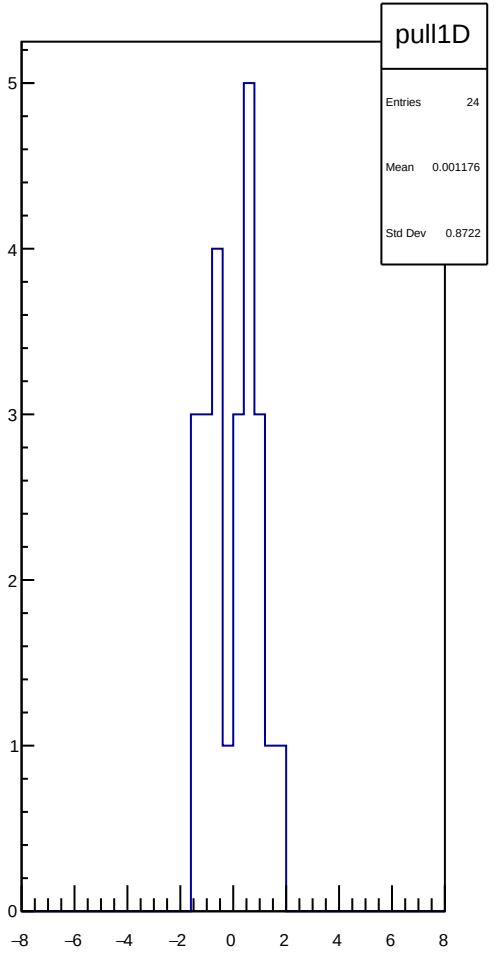
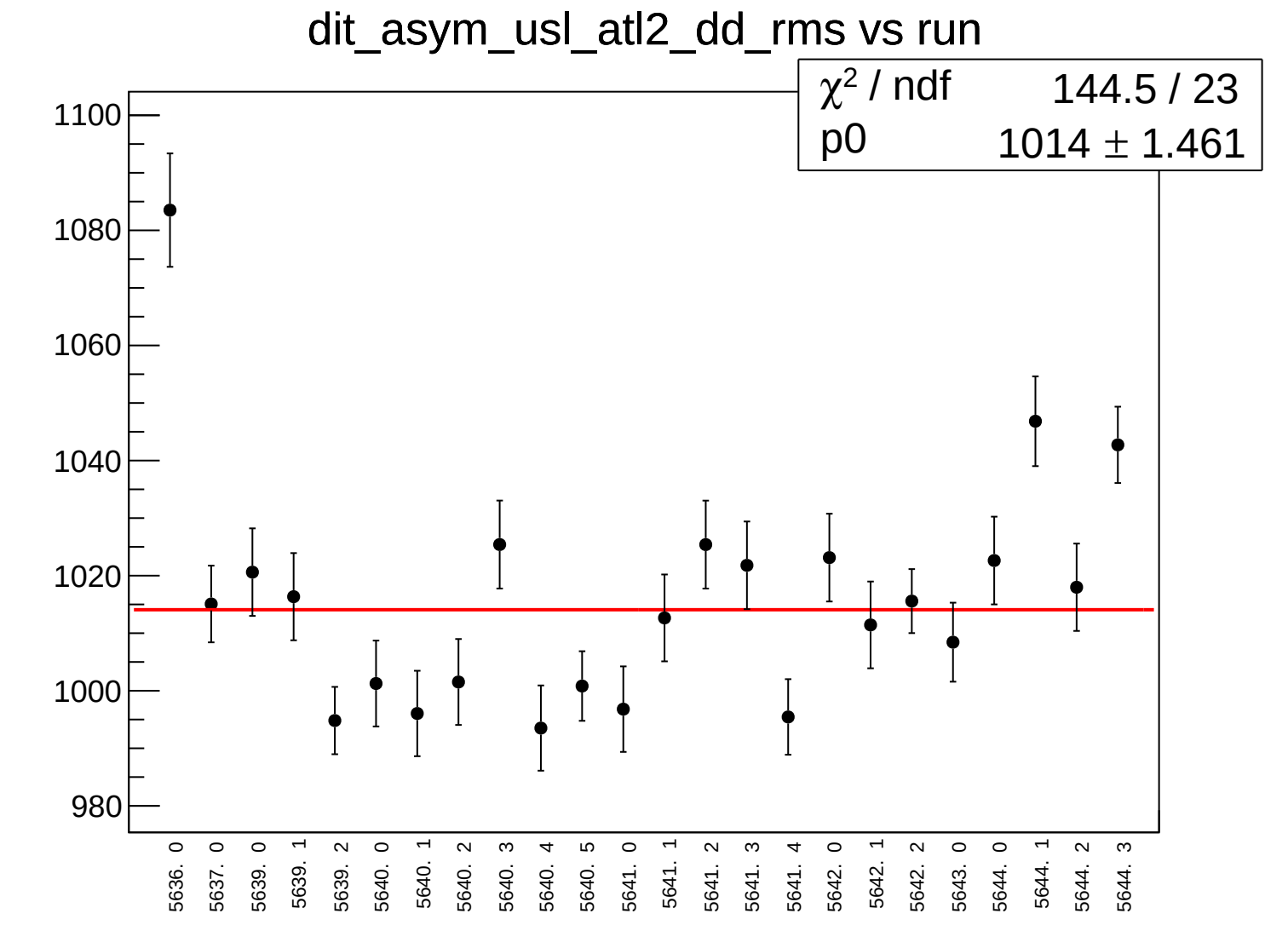
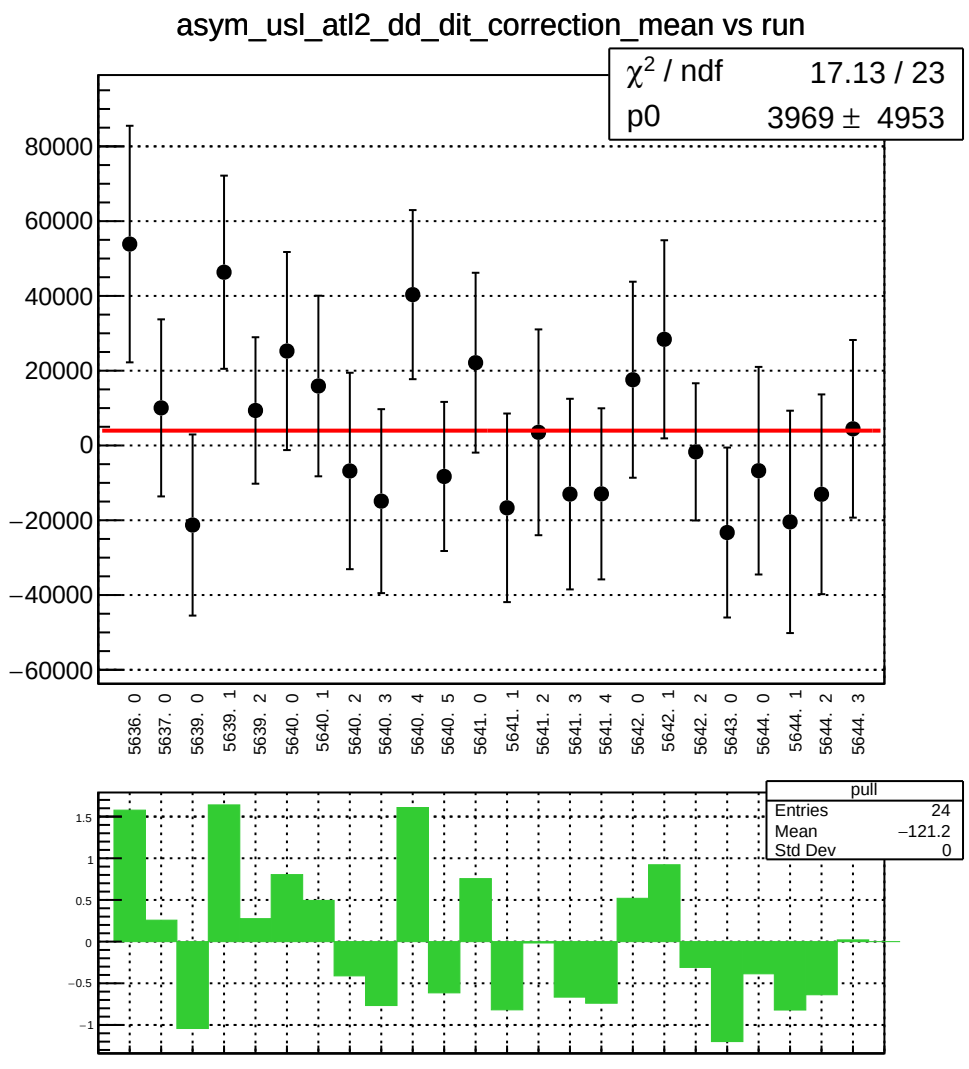
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

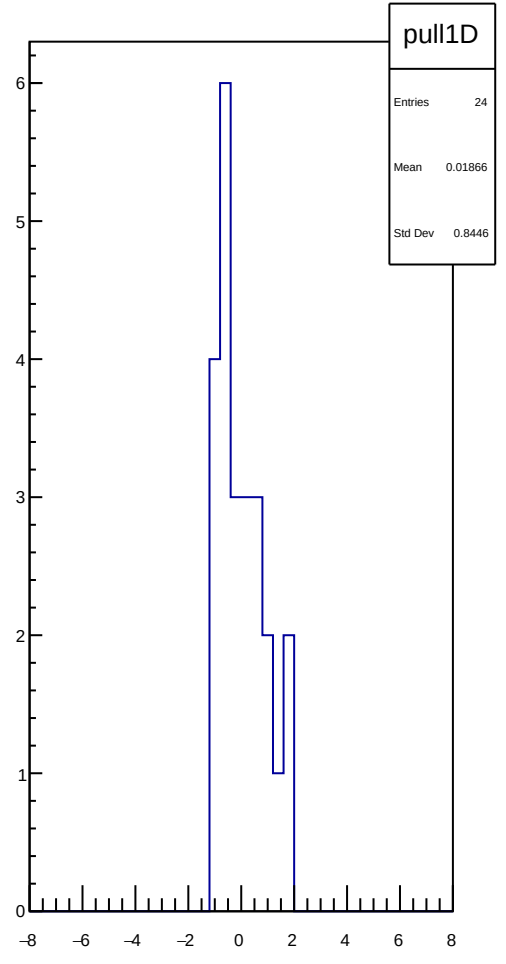

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 18.26 / 23
p0 3744 ± 2065
30000
20000
10000
0
−10000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

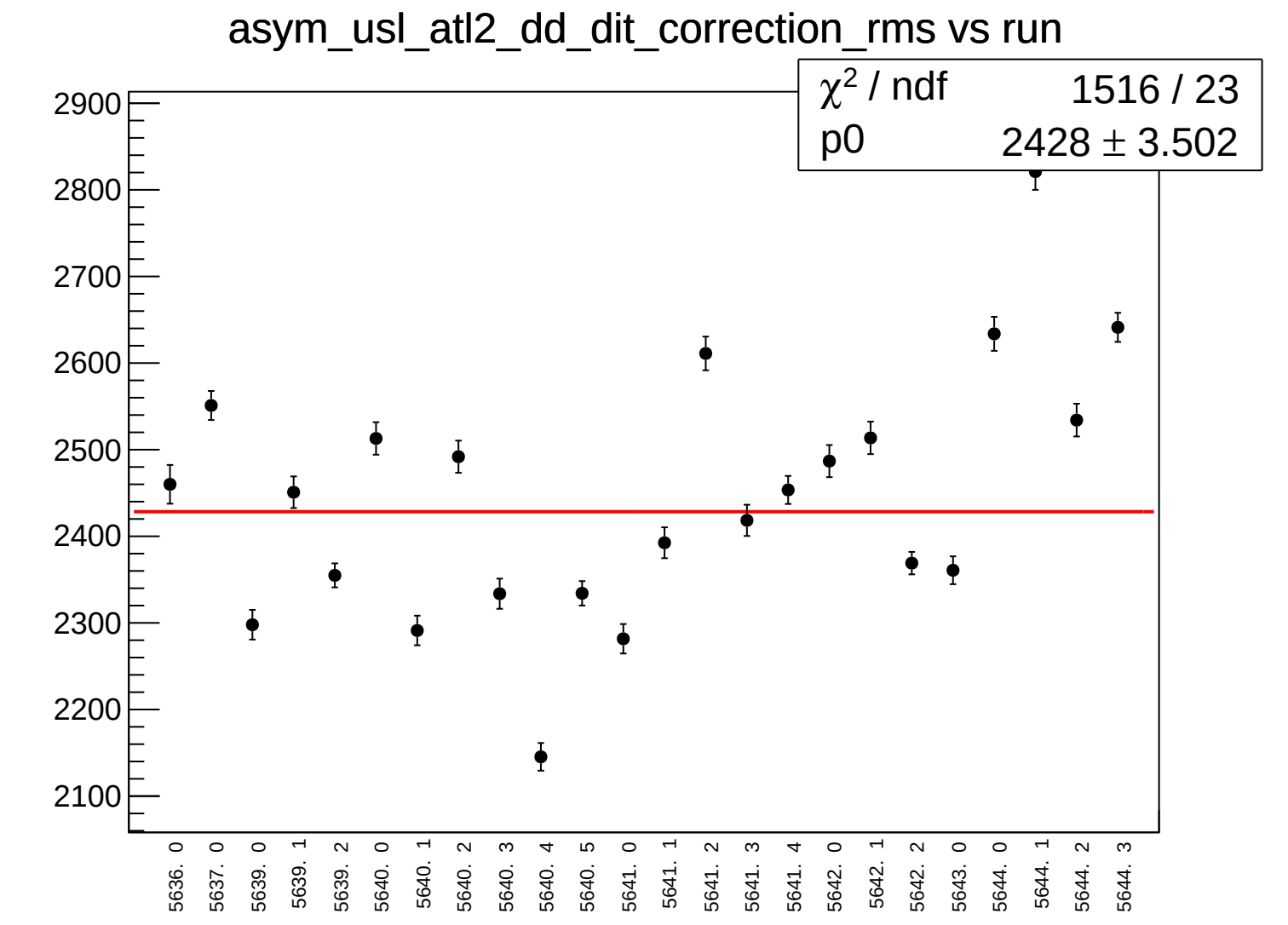

pull
Entries 24
Mean −1238
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

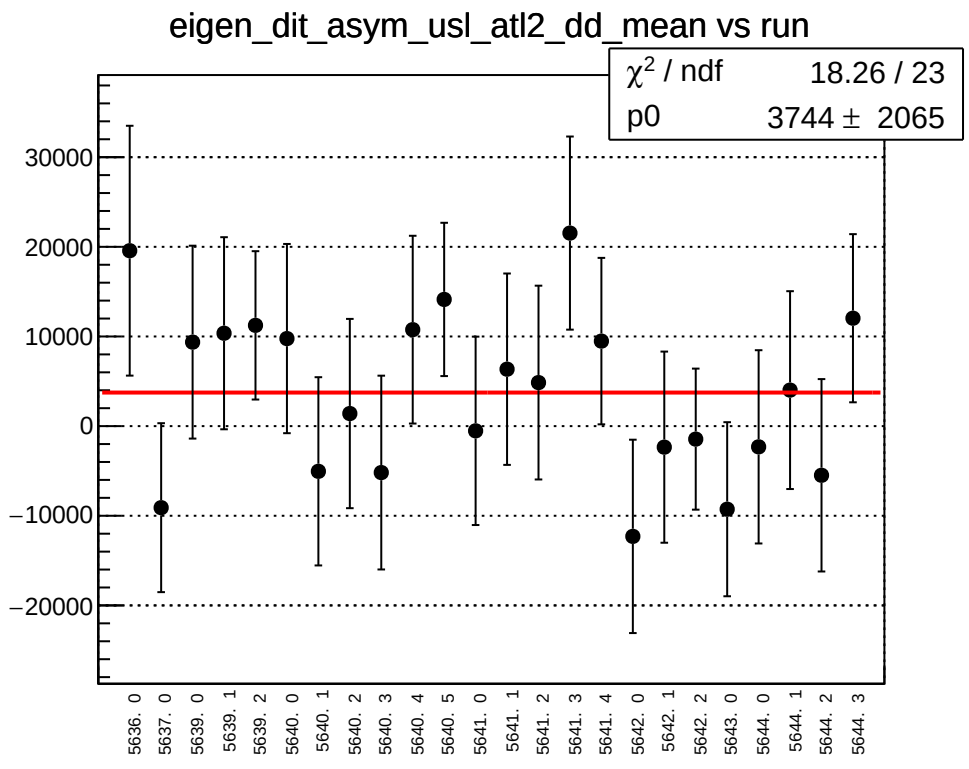

pull1D
Entries 24
Mean 0.001176
Std Dev 0.8722
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

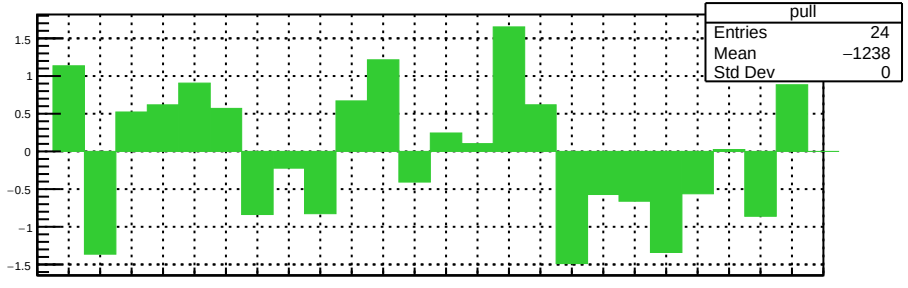

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 144.5 / 23
p0 1014 ± 1.461
1100
1080
1060
1040
1020
1000
980
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

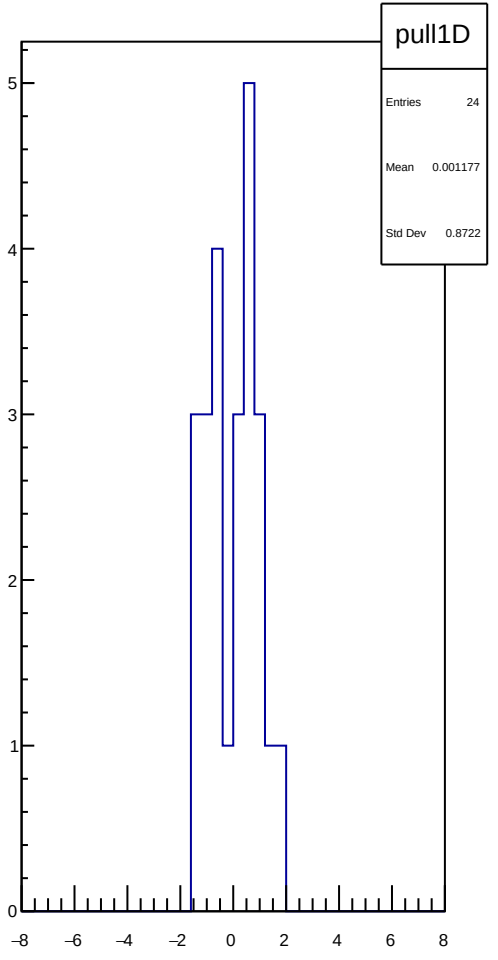

asym_usl_atl2_dd_dit_correction_mean vs run
χ² / ndf 17.13 / 23
p0 3969 ± 4953
80000
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −121.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1

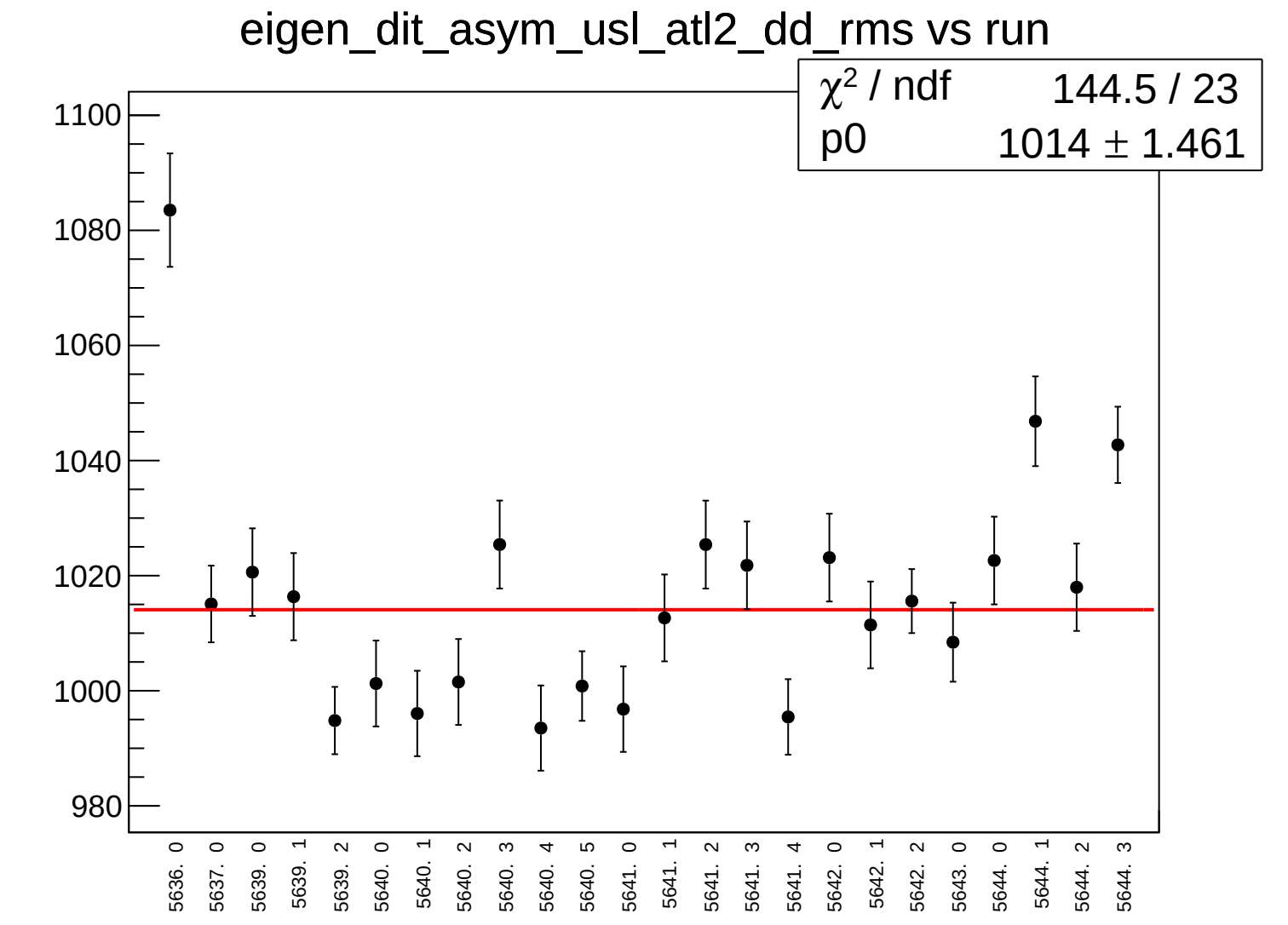

pull1D
Entries 24
Mean 0.01866
Std Dev 0.8446
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

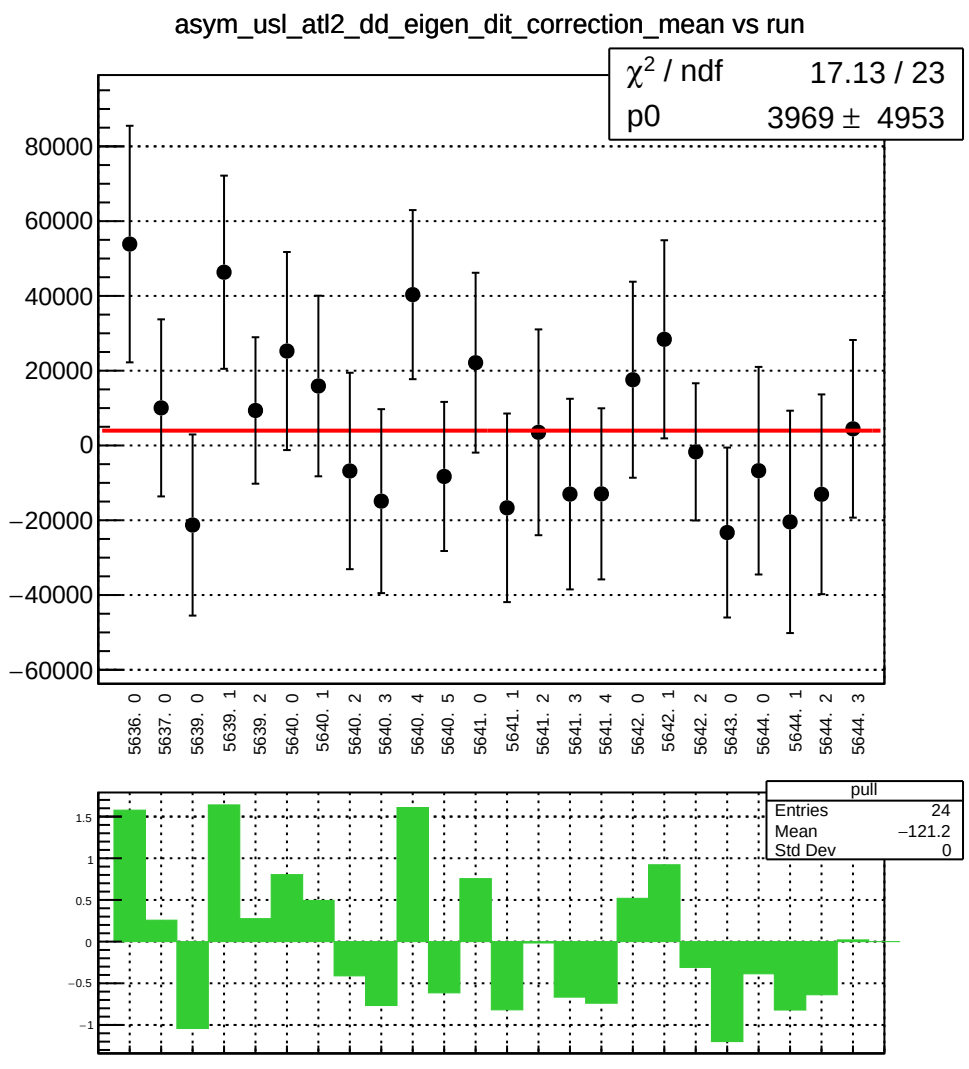

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 1516 / 23
p0 2428 ± 3.502
2900
2800
2700
2600
2500
2400
2300
2200
2100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

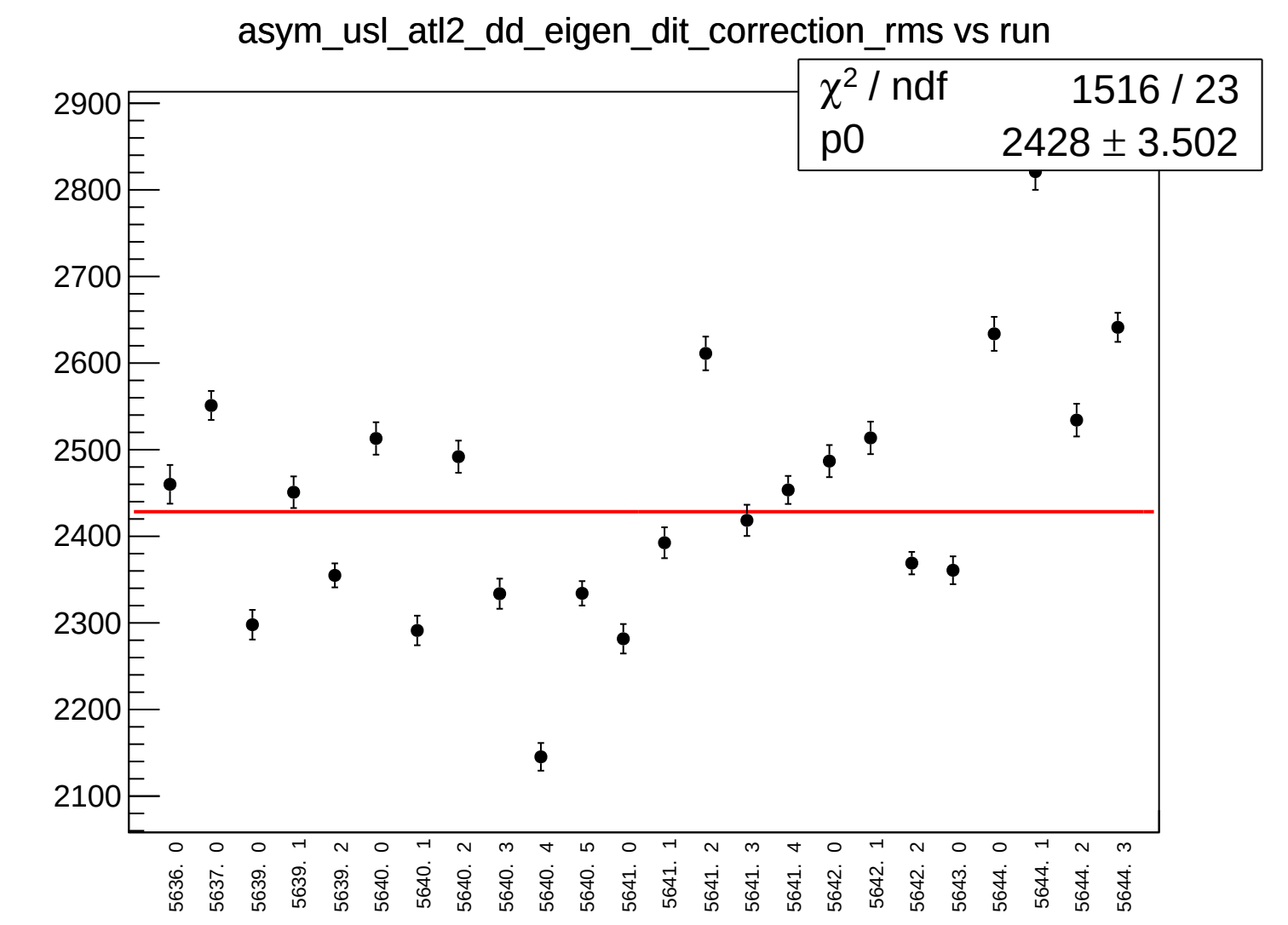

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 18.26 / 23
p0 3744 ± 2065
30000
20000
10000
0
−10000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

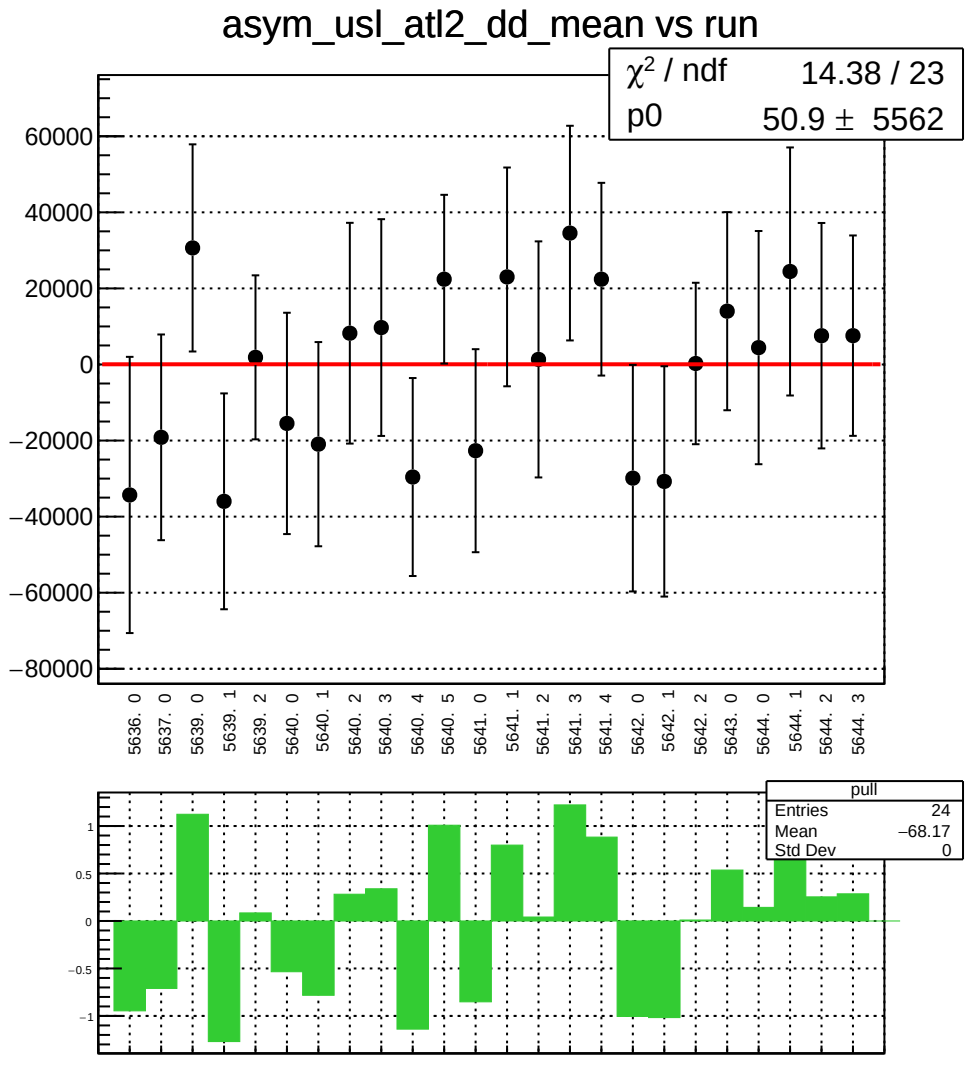

pull
Entries 24
Mean −1238
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

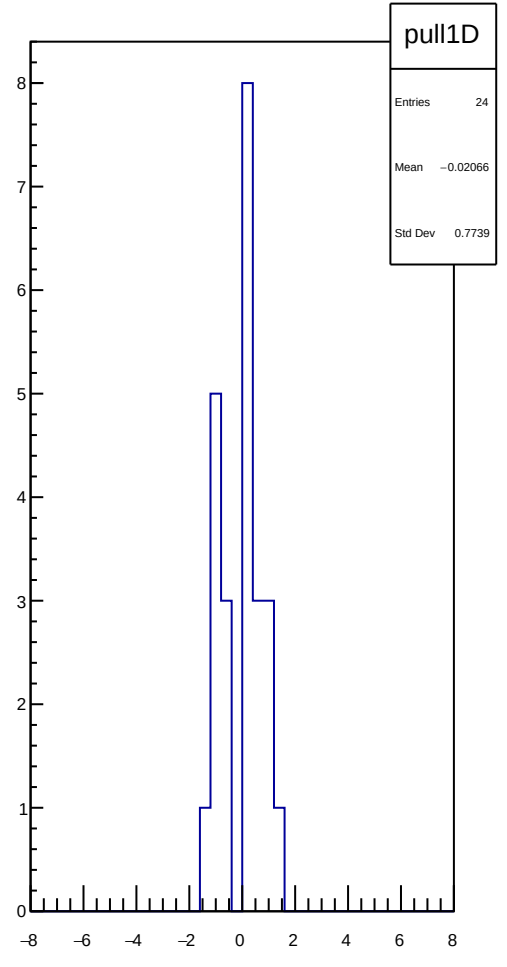

pull1D
Entries 24
Mean 0.001177
Std Dev 0.8722
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

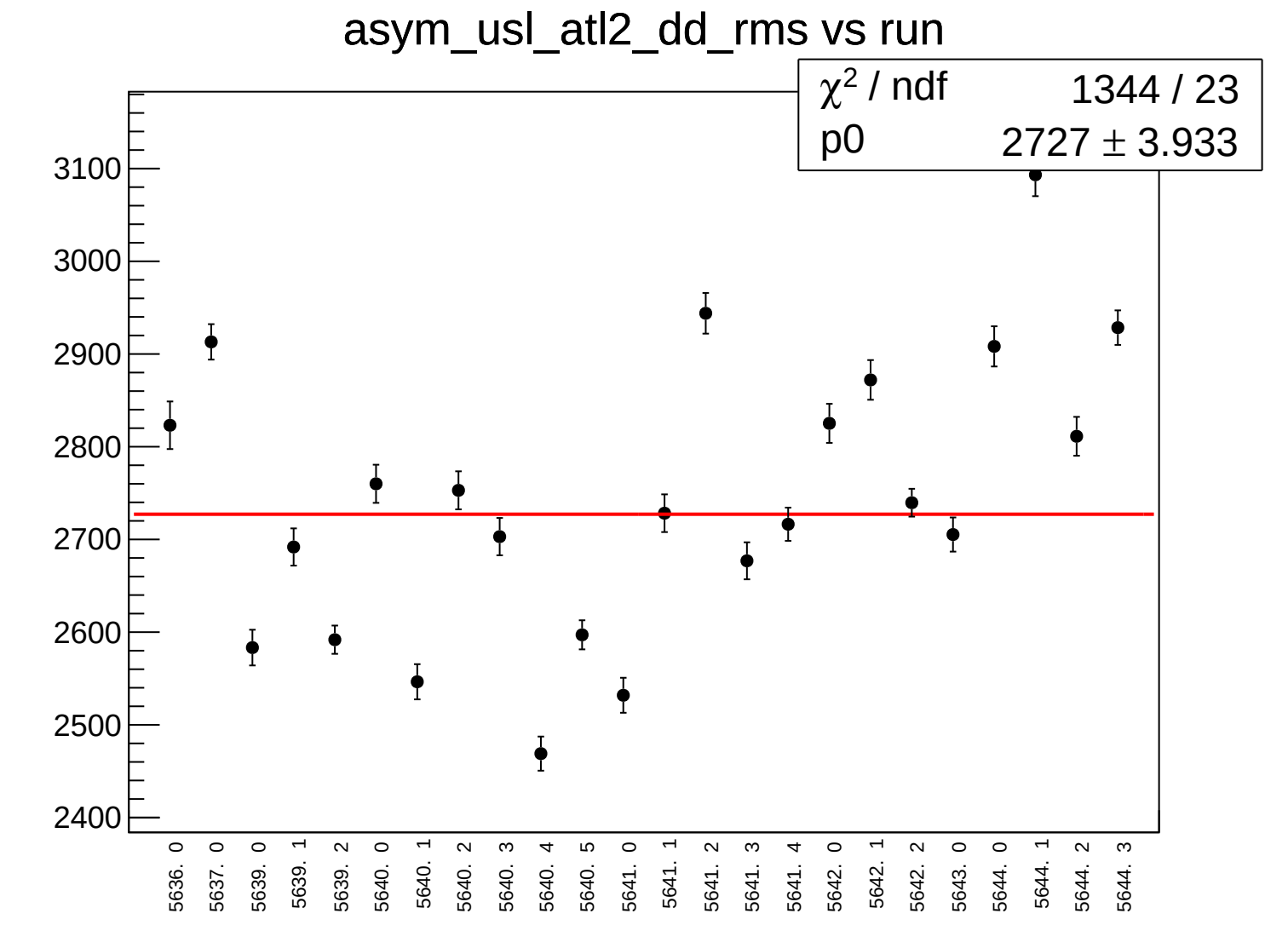

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 144.5 / 23
p0 1014 ± 1.461
1100
1080
1060
1040
1020
1000
980
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

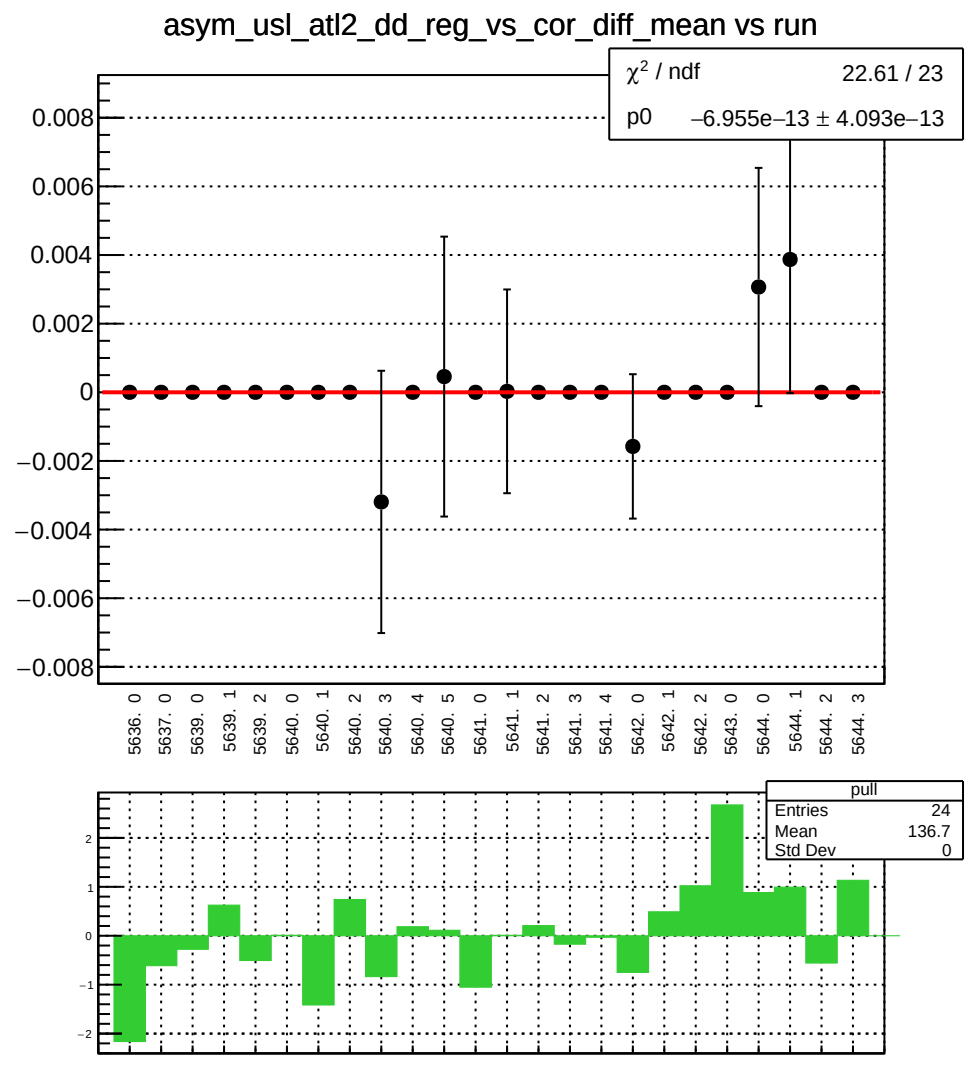

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
χ² / ndf 17.13 / 23
p0 3969 ± 4953
80000
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −121.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.01866
Std Dev 0.8446
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

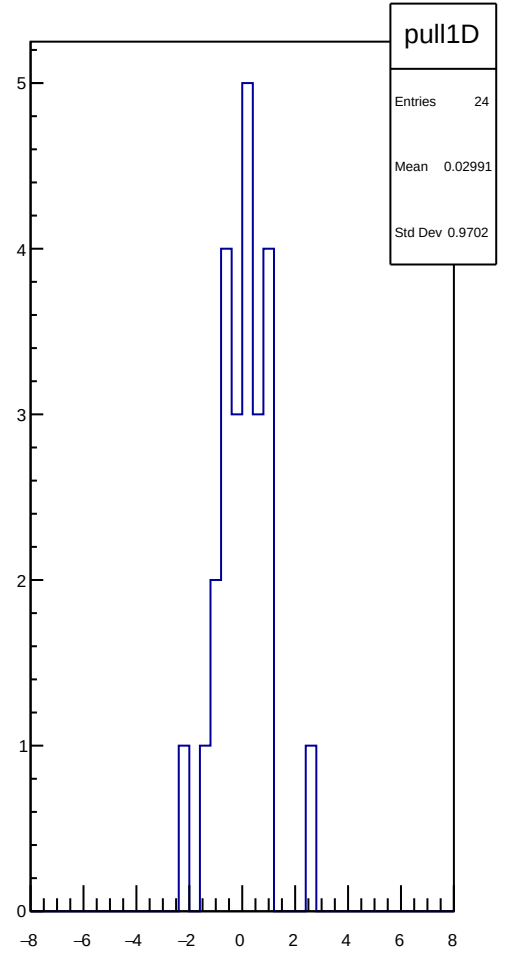

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1516 / 23
p0 2428 ± 3.502
2900
2800
2700
2600
2500
2400
2300
2200
2100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

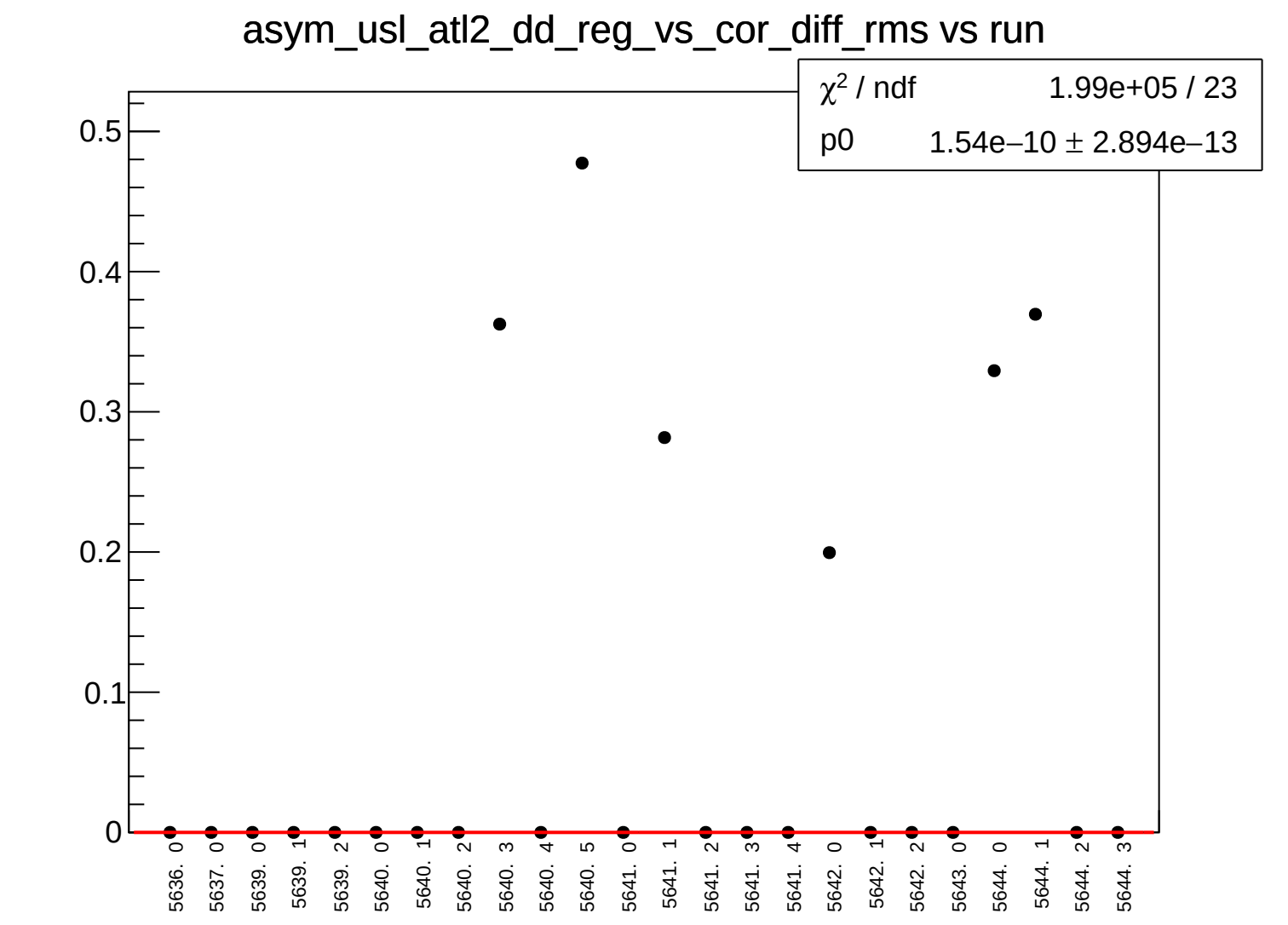

asym_usl_atl2_dd_mean vs run
χ² / ndf 14.38 / 23
p0 50.9 ± 5562
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −68.17
Std Dev 0
1
0.5
0
−0.5
−1

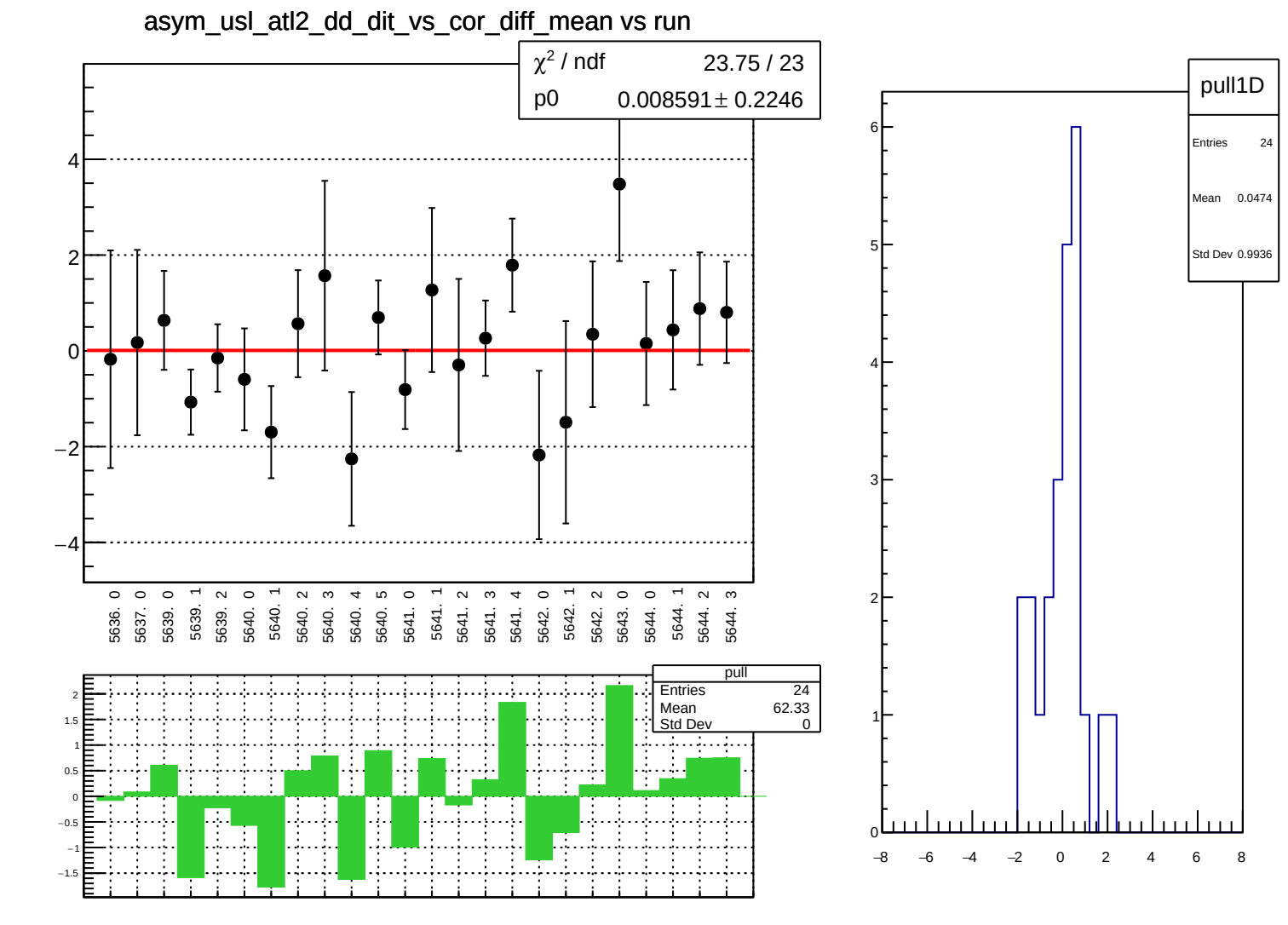

pull1D
Entries 24
Mean −0.02066
Std Dev 0.7739
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

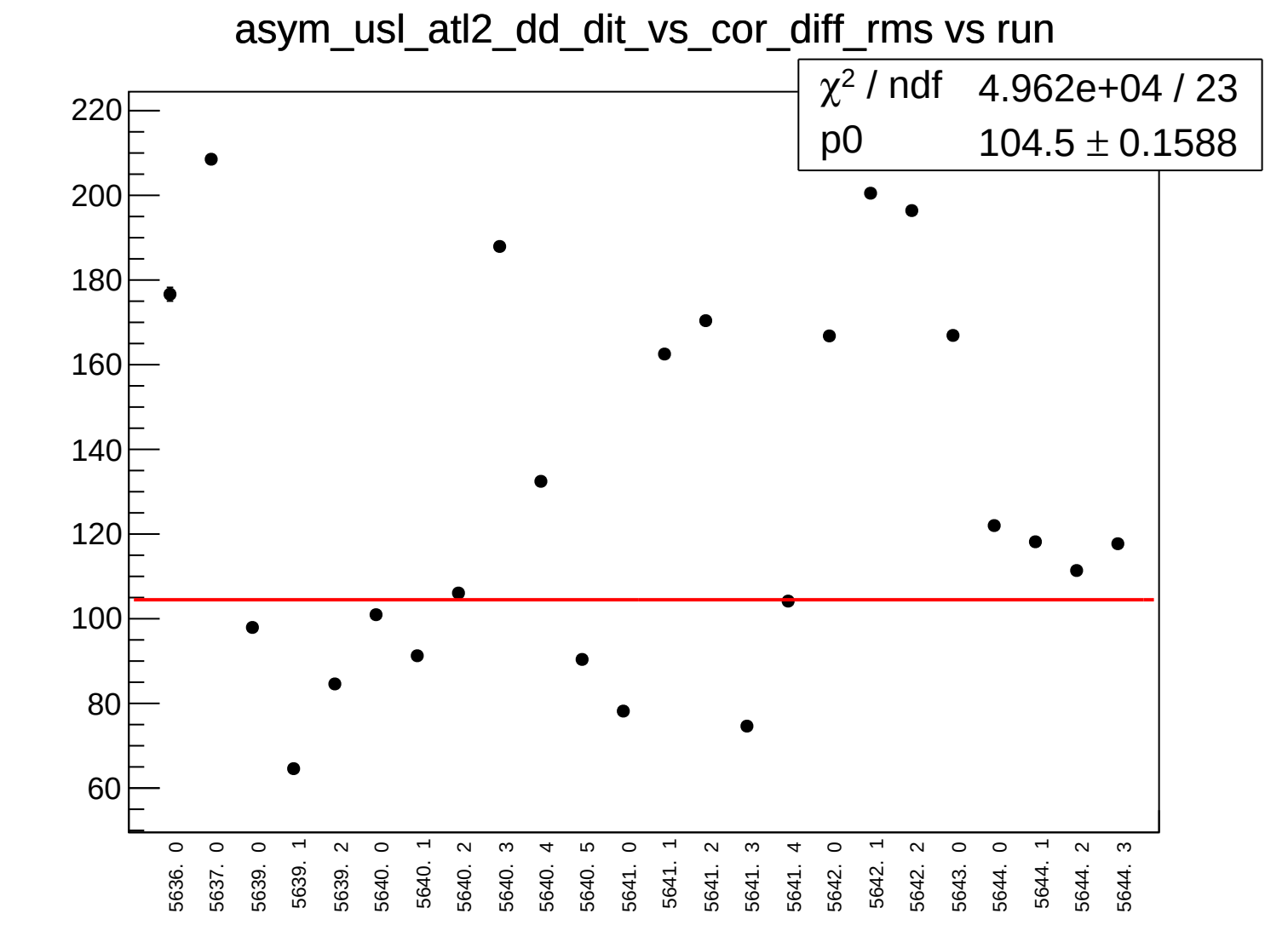

asym_usl_atl2_dd_rms vs run
χ² / ndf 1344 / 23
p0 2727 ± 3.933
3100
3000
2900
2800
2700
2600
2500
2400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 22.61 / 23
p0 −6.955e−13 ± 4.093e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 136.7
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 24
Mean 0.02991
Std Dev 0.9702
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.99e+05 / 23
p0 1.54e−10 ± 2.894e−13
0.5
0.4
0.3
0.2
0.1
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 23.75 / 23
p0 0.008591 ± 0.2246
4
2
0
−2
−4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 62.33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.0474
Std Dev 0.9936
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.962e+04 / 23
p0 104.5 ± 0.1588
220
200
180
160
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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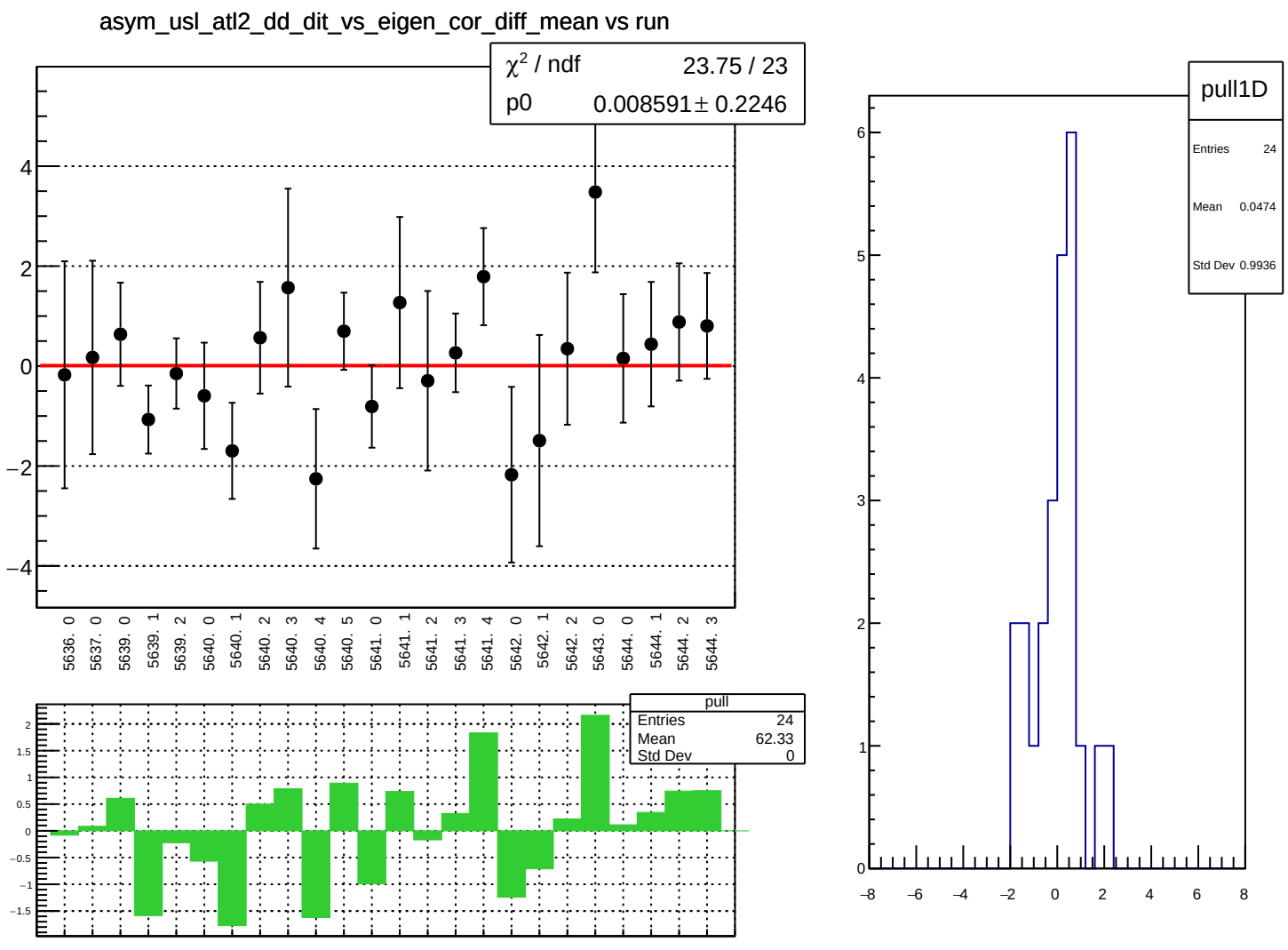
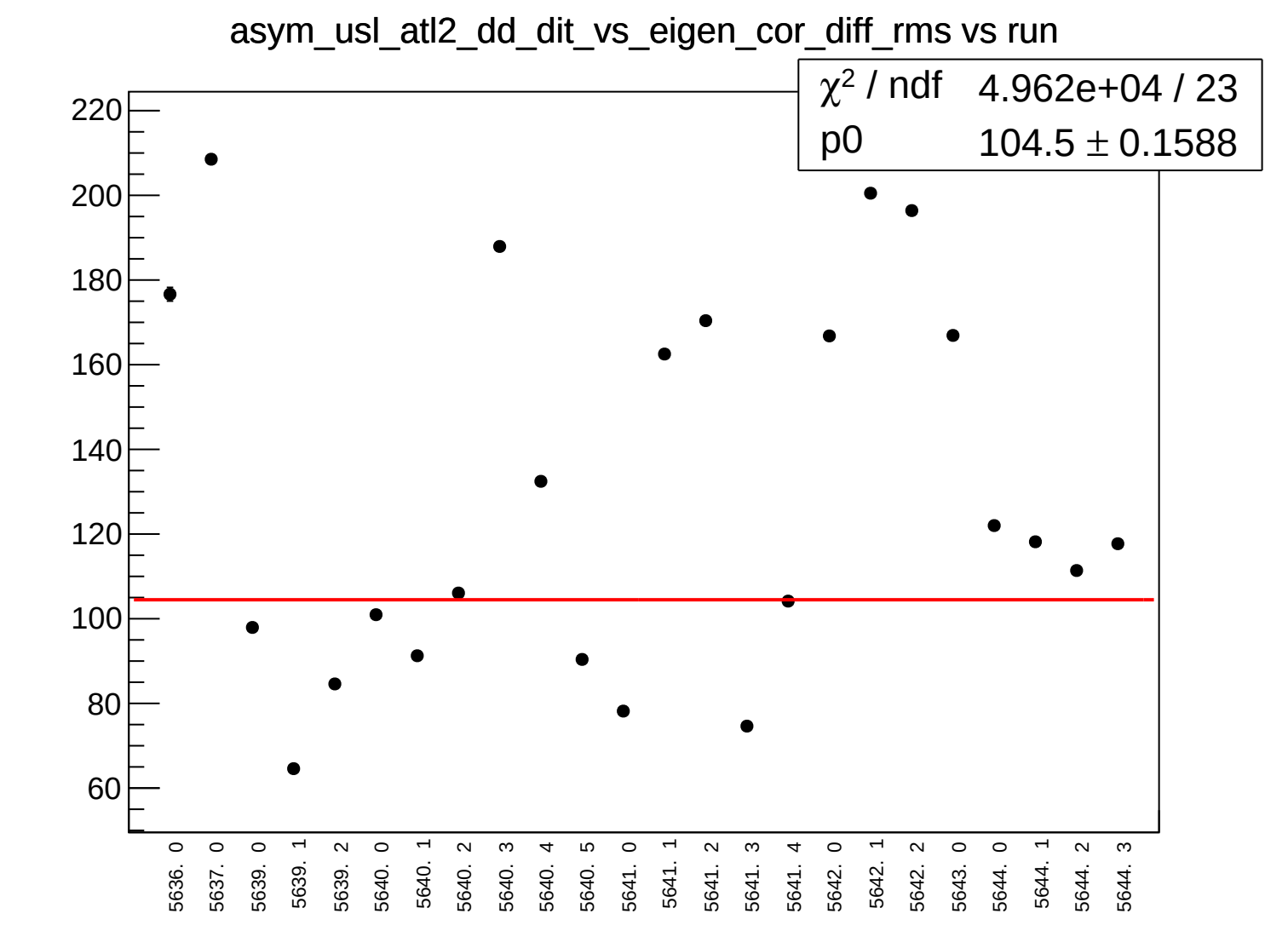
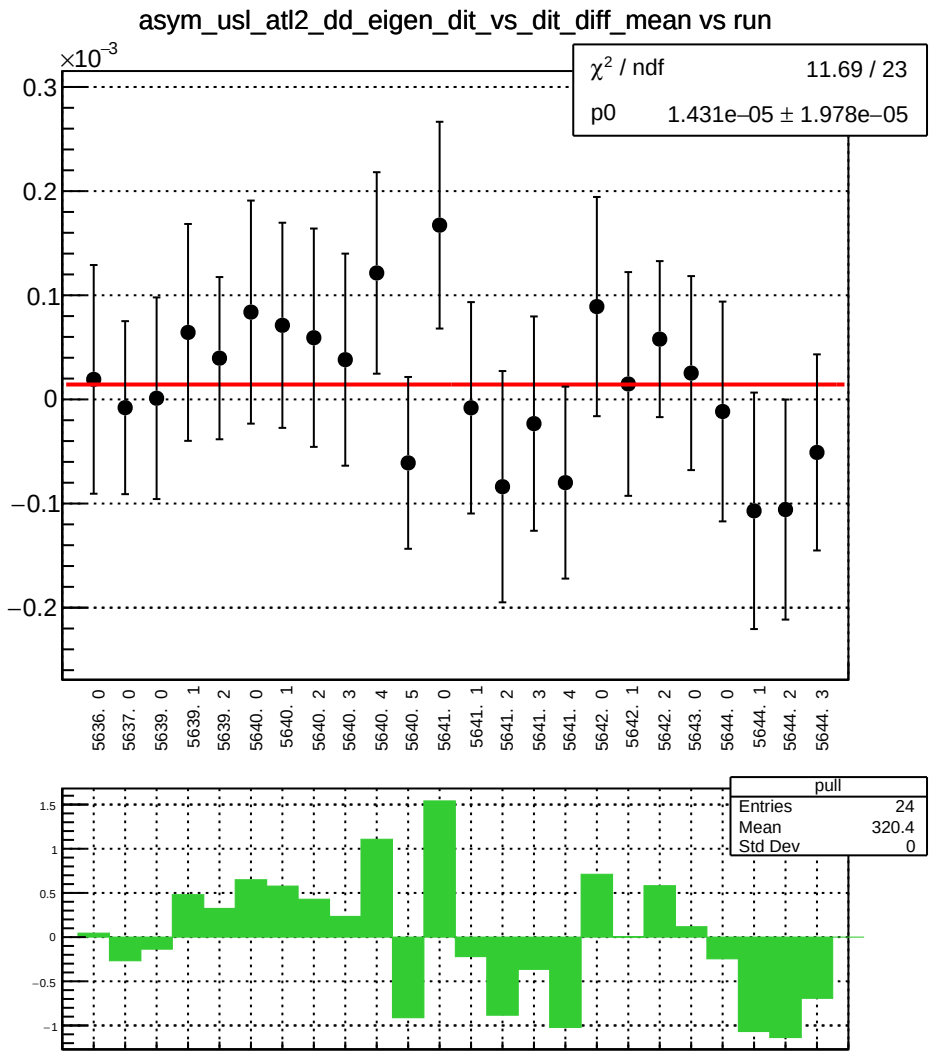
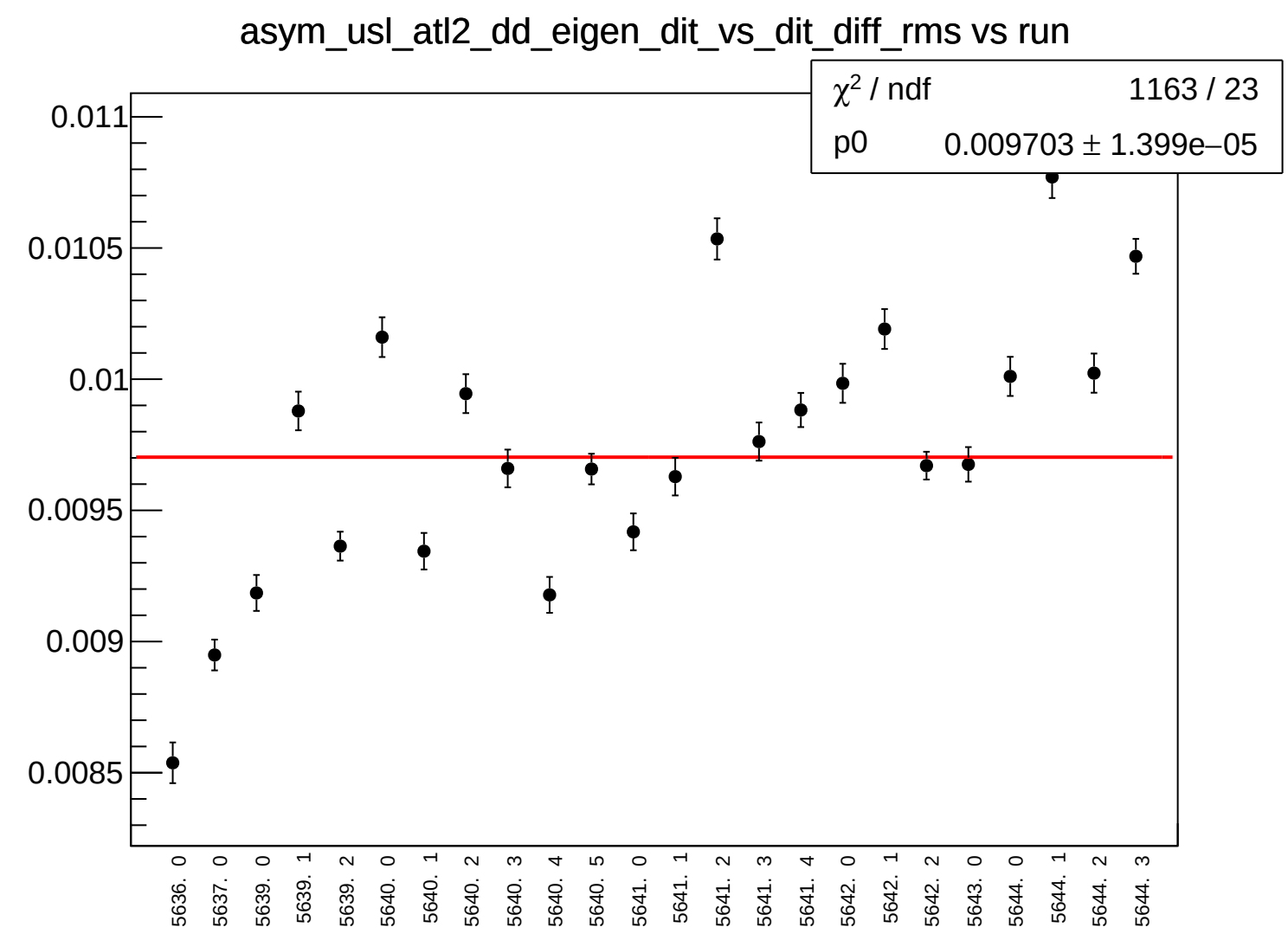
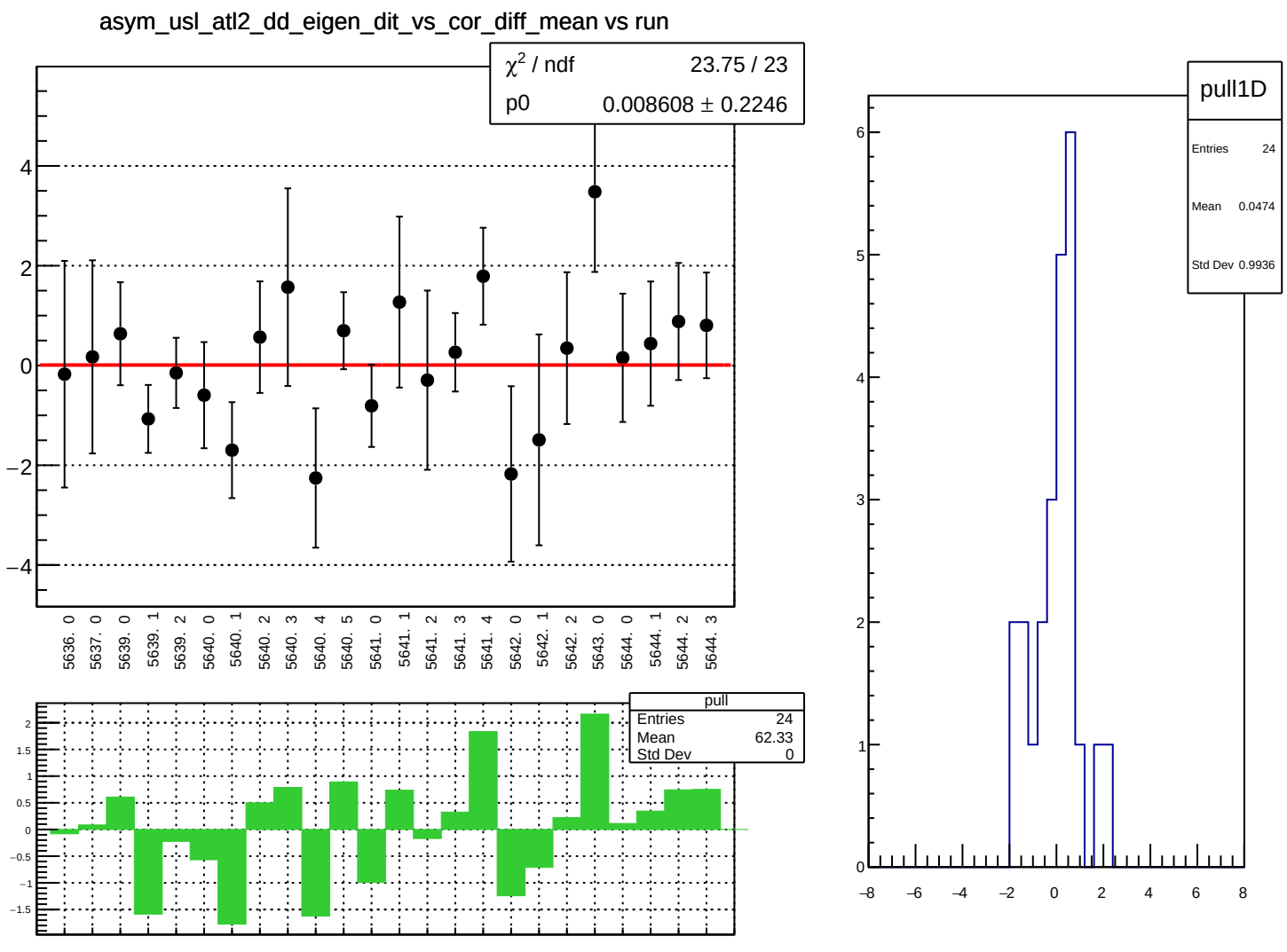
5644. 2
5644. 3

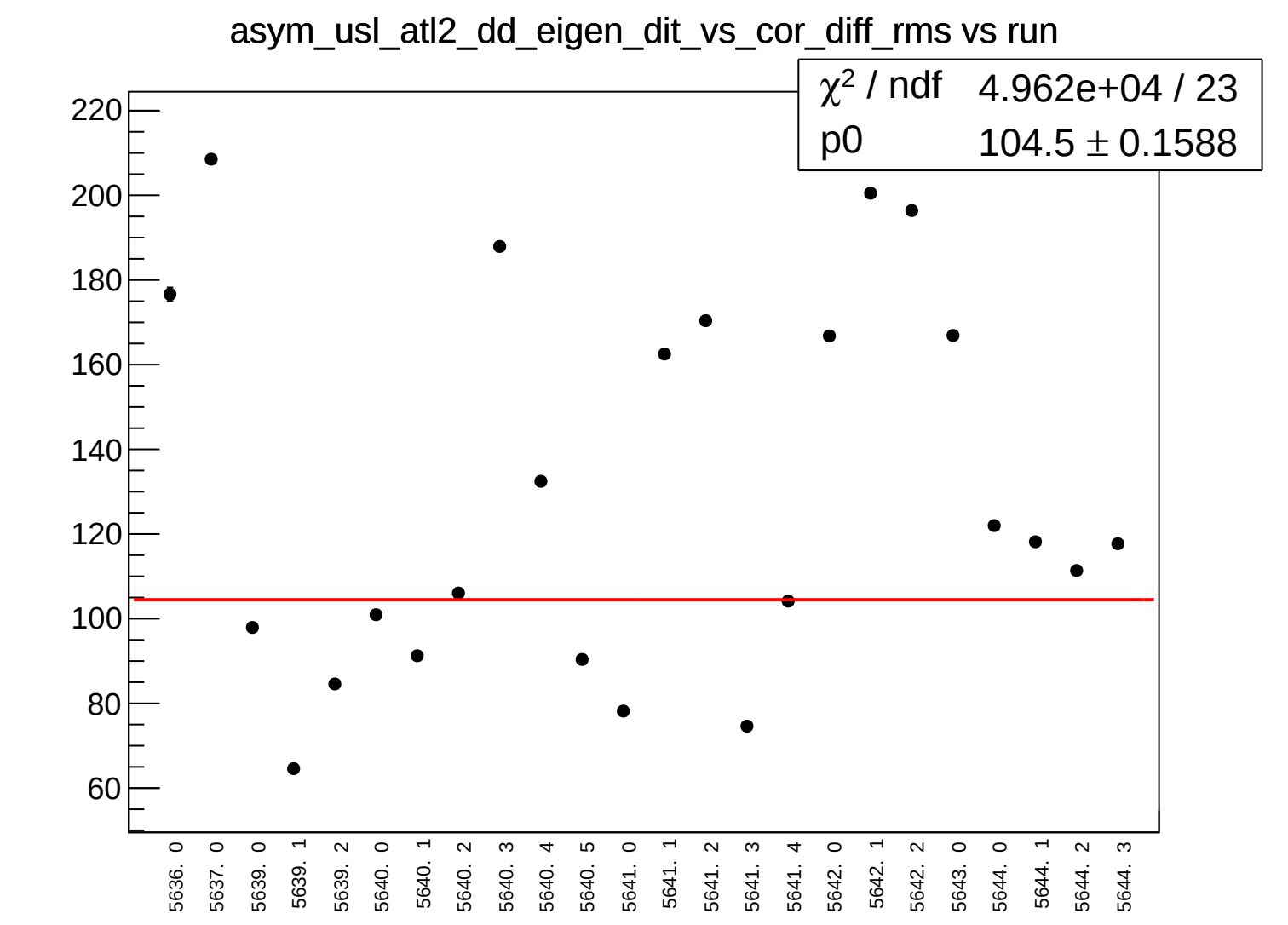

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 23.75 / 23
p0 0.008591 ± 0.2246
4
2
0
−2
−4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 62.33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.0474
Std Dev 0.9936
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.962e+04 / 23
p0 104.5 ± 0.1588
220
200
180
160
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 11.69 / 23
p0 1.431e−05 ± 1.978e−05
0.3
0.2
0.1
0
−0.1
−0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 320.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.006136
Std Dev 0.698
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1163 / 23
p0 0.009703 ± 1.399e−05
0.011
0.0105
0.01
0.0095
0.009
0.0085
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 23.75 / 23
p0 0.008608 ± 0.2246
4
2
0
−2
−4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 62.33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.0474
Std Dev 0.9936
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.962e+04 / 23
p0 104.5 ± 0.1588
220
200
180
160
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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5642. 0
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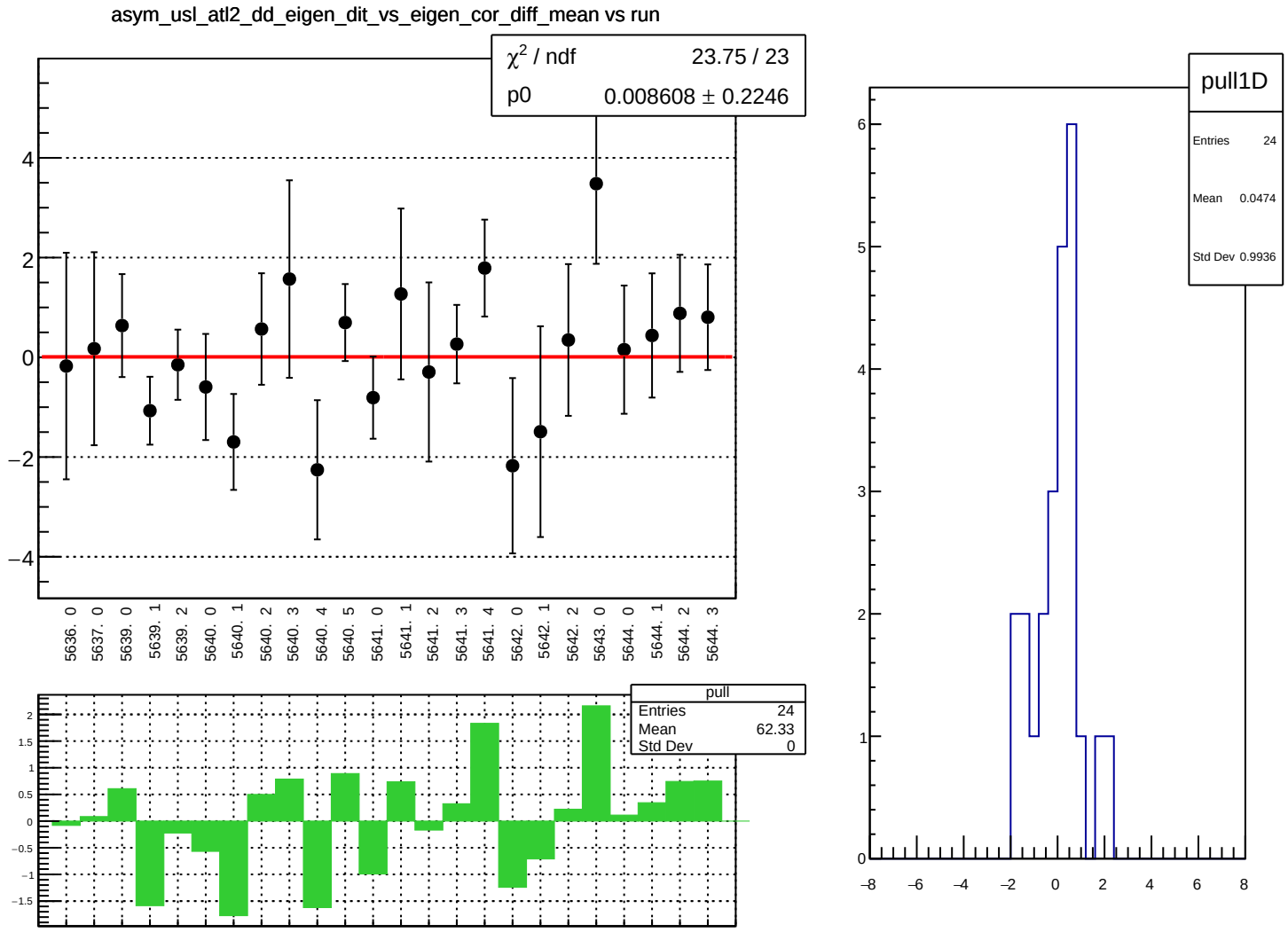
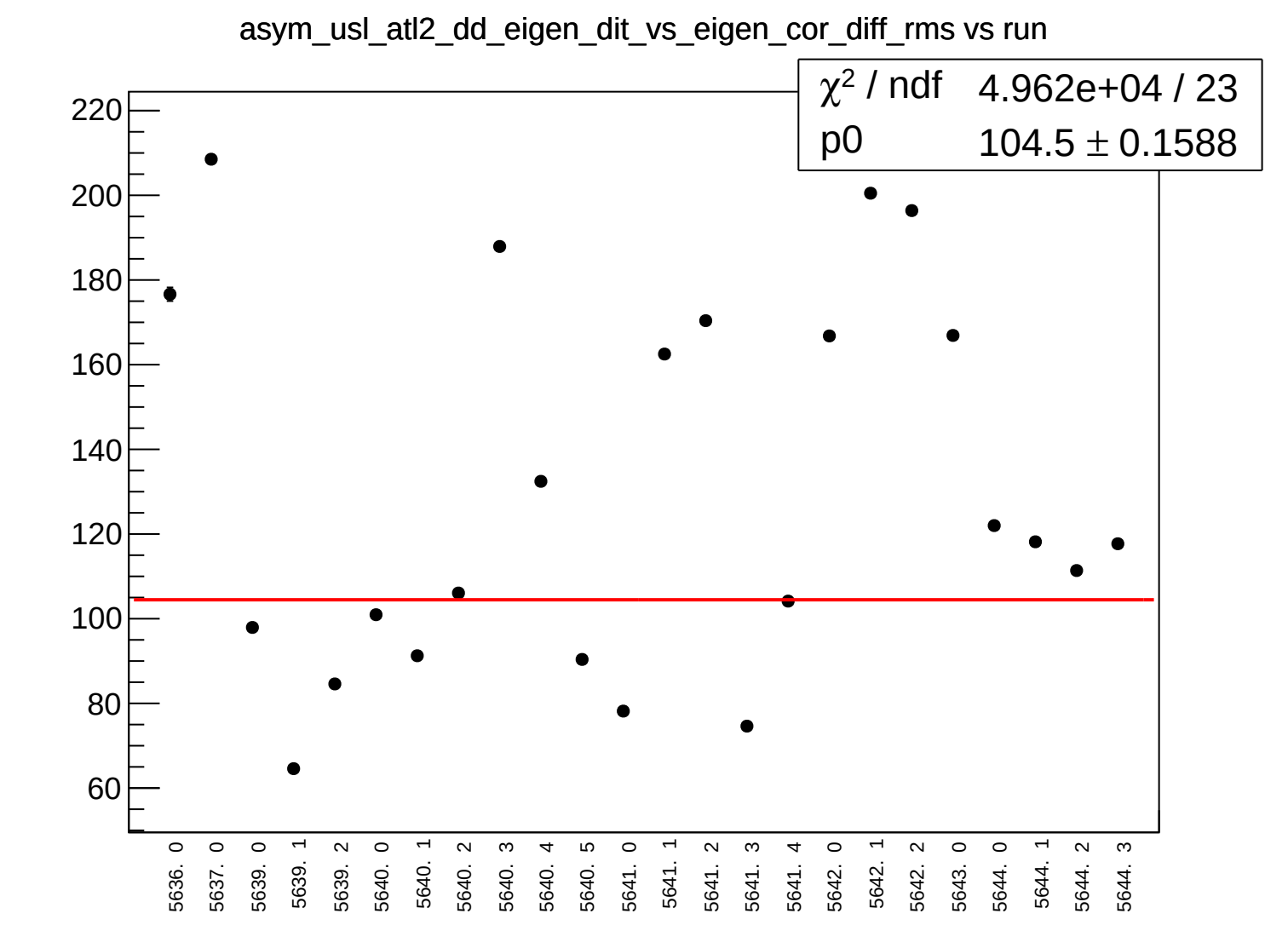
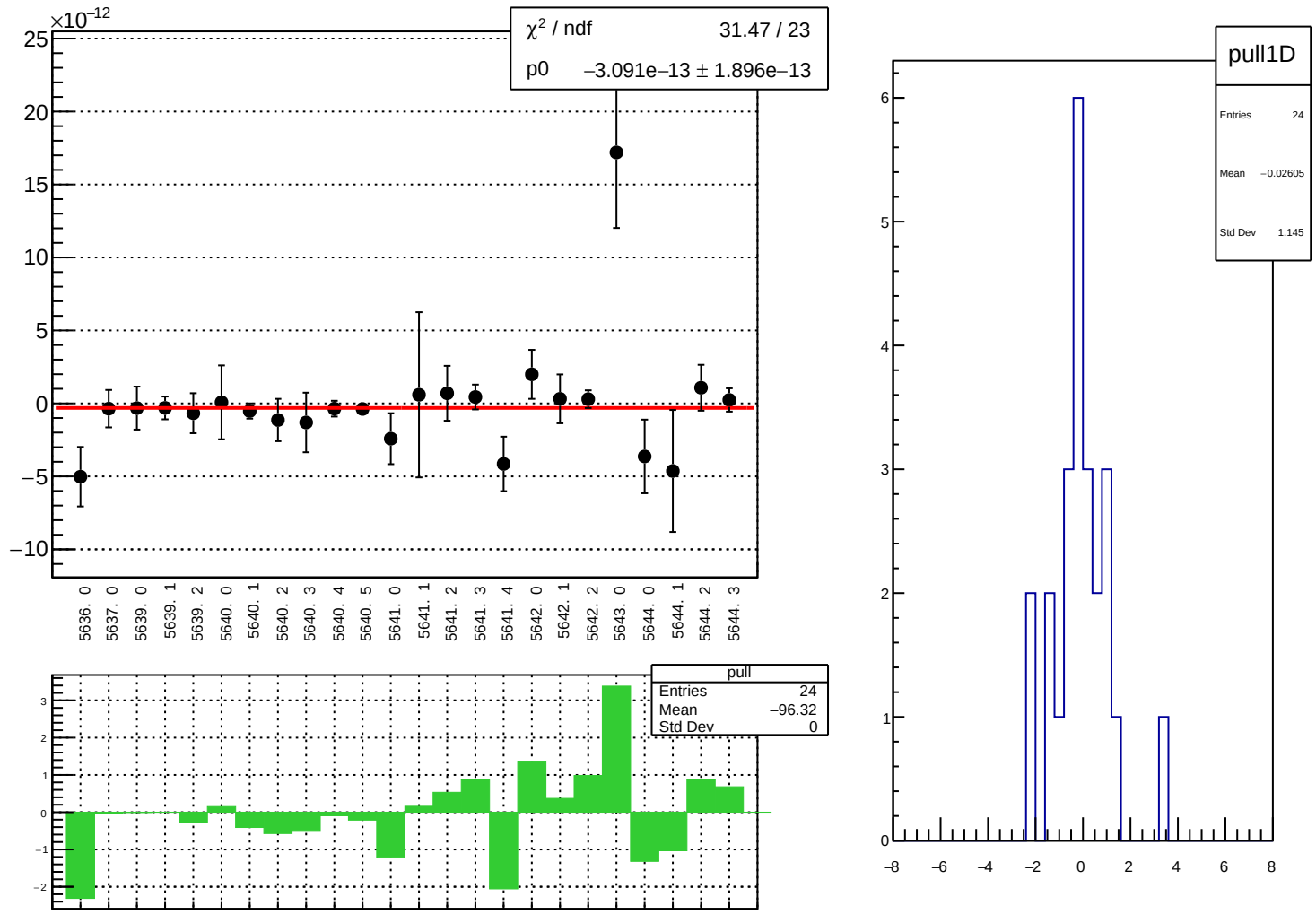
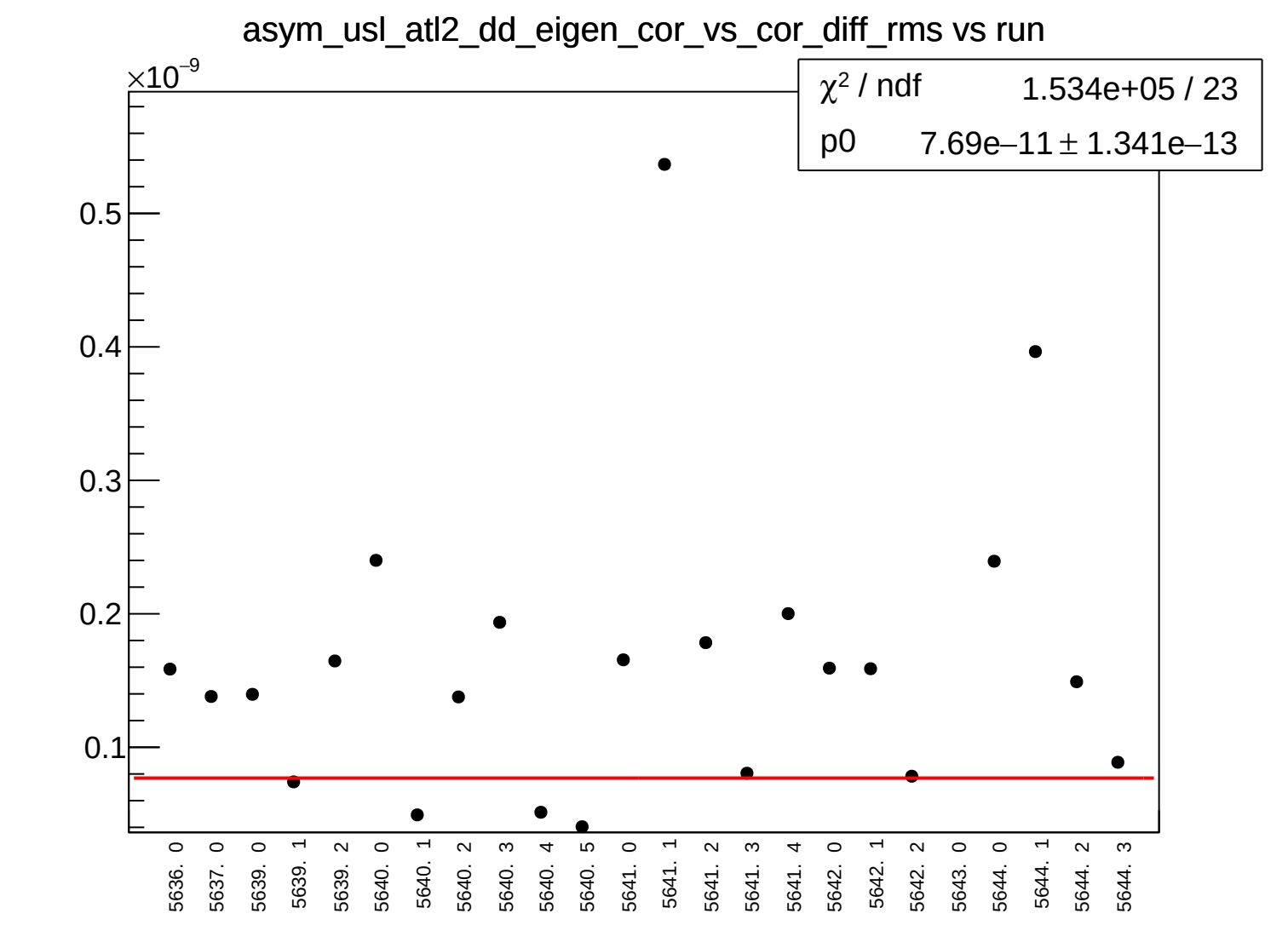
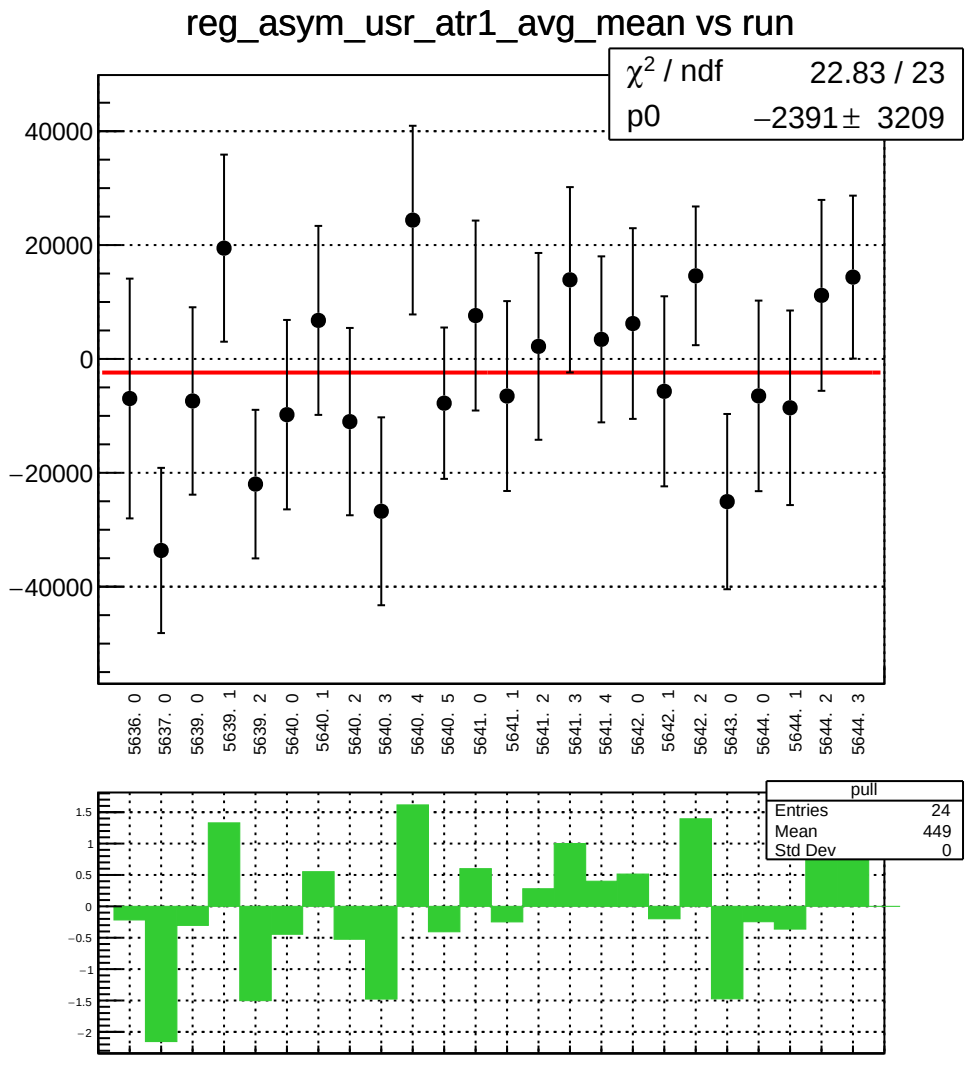
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

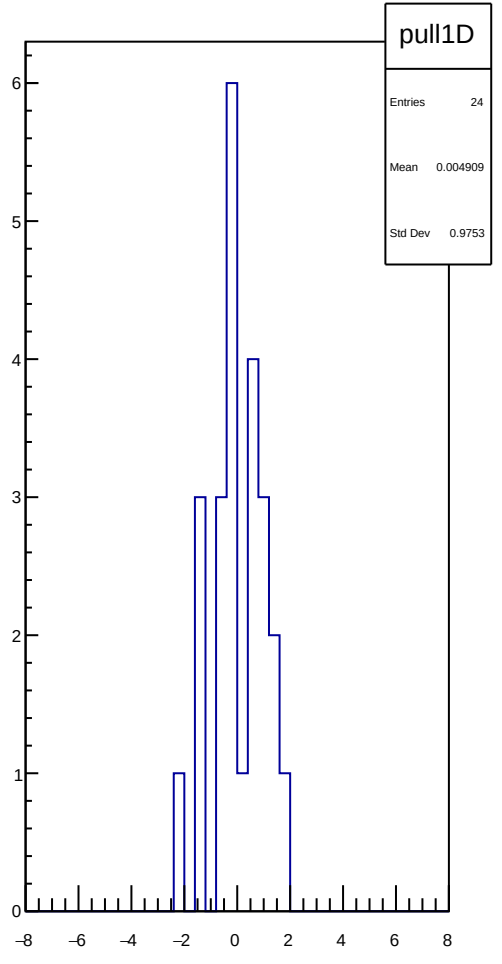

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 23.75 / 23
p0 0.008608 ± 0.2246
4
2
0
−2
−4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 62.33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.0474
Std Dev 0.9936
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

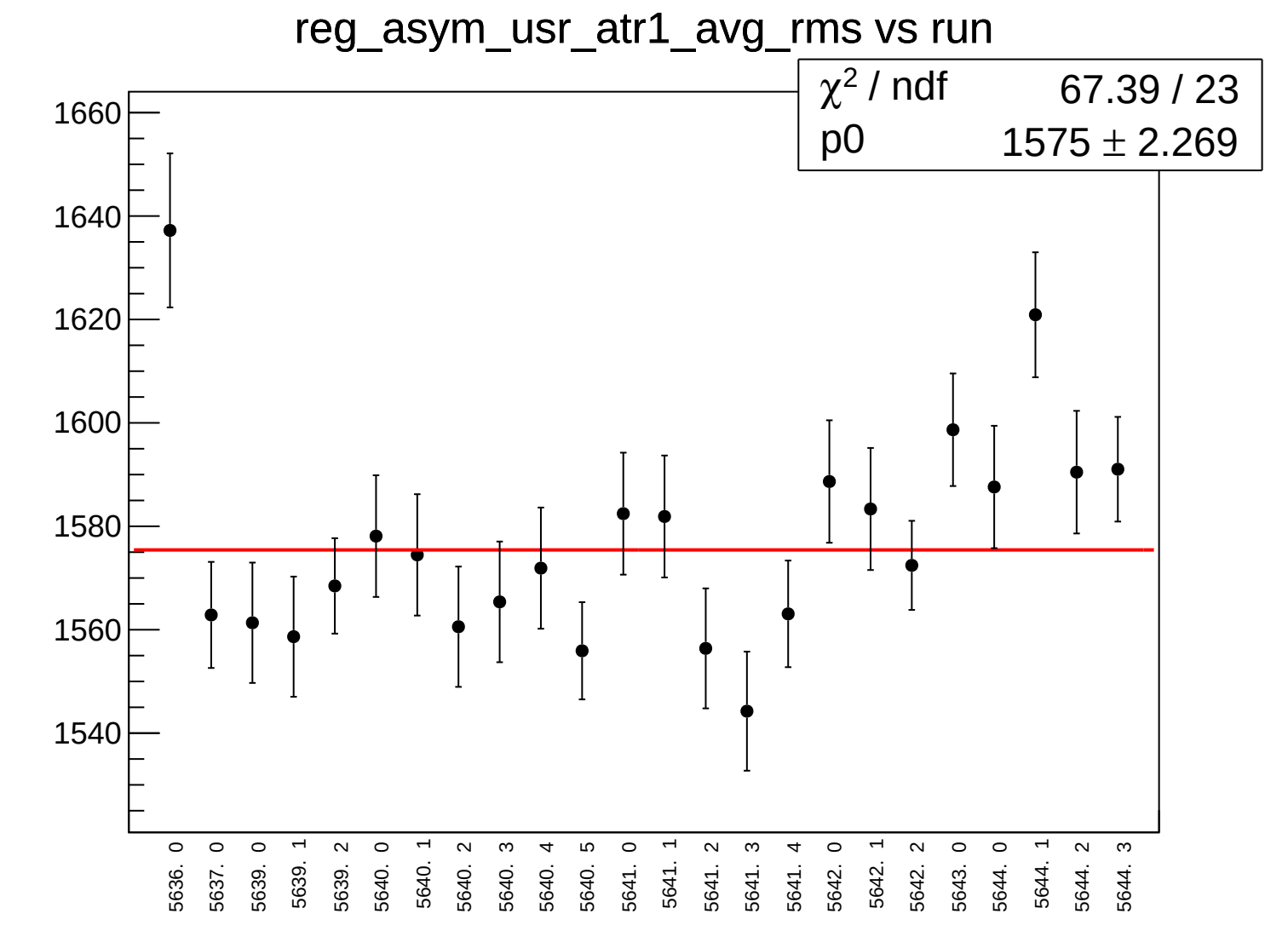

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.962e+04 / 23
p0 104.5 ± 0.1588
220
200
180
160
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

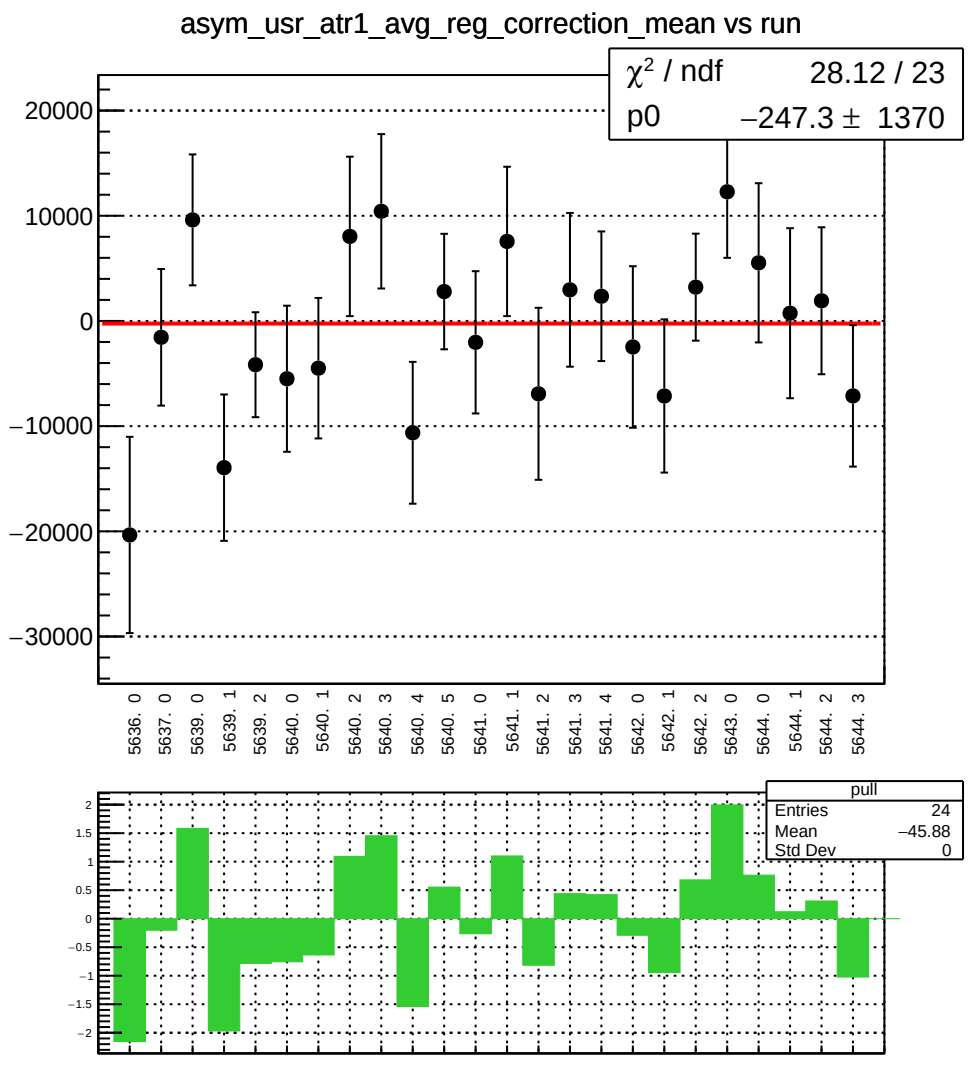

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 31.47 / 23
p0 −3.091e−13 ± 1.896e−13
25
20
15
10
5
0
−5
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −96.32
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 24
Mean −0.02605
Std Dev 1.145
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

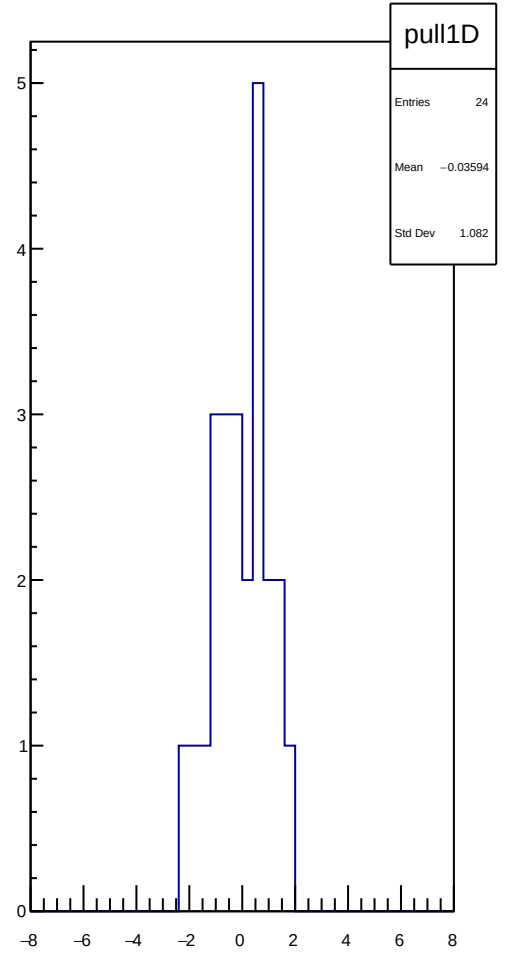

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.534e+05 / 23
p0 7.69e−11 ± 1.341e−13
0.5
0.4
0.3
0.2
0.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

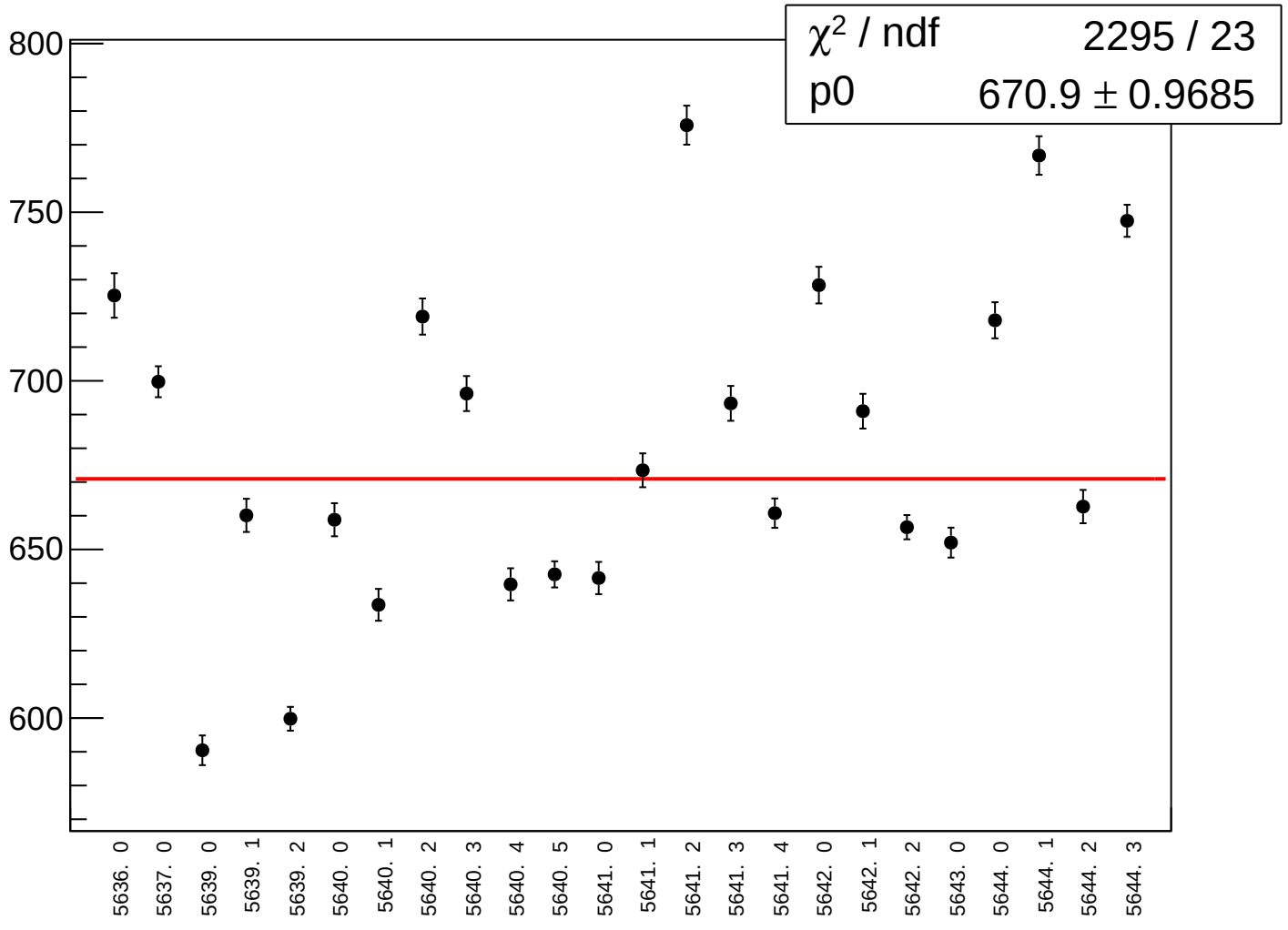

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 22.83 / 23
p0 −2391 ± 3209
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 449
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

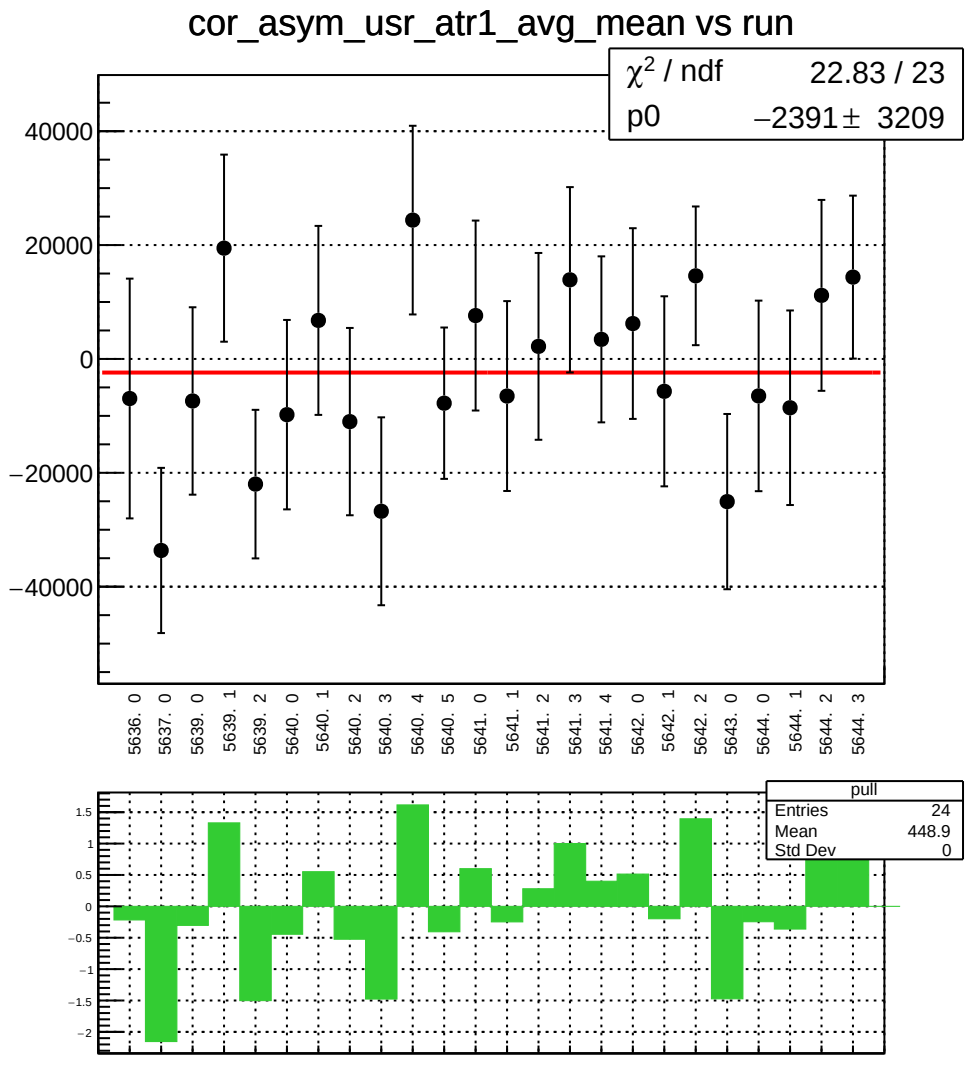

pull1D
Entries 24
Mean 0.004909
Std Dev 0.9753
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

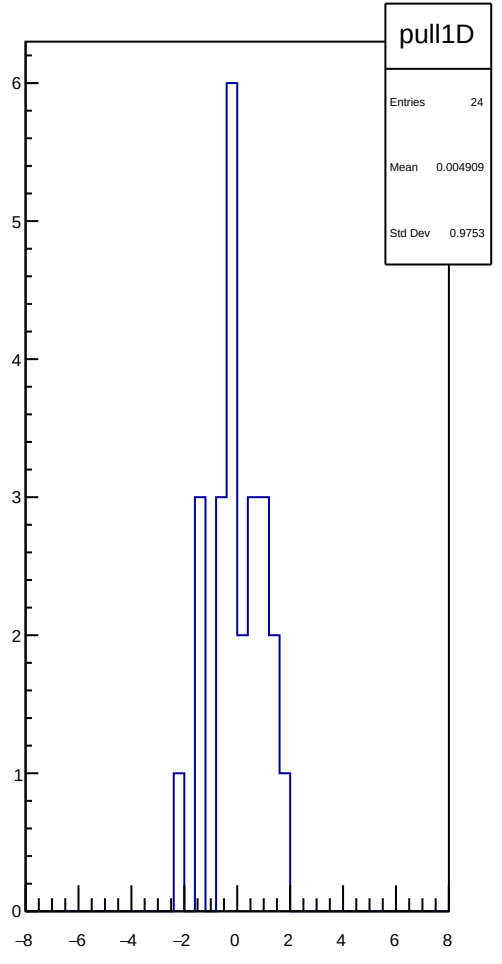

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 67.39 / 23
p0 1575 ± 2.269
1660
1640
1620
1600
1580
1560
1540
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

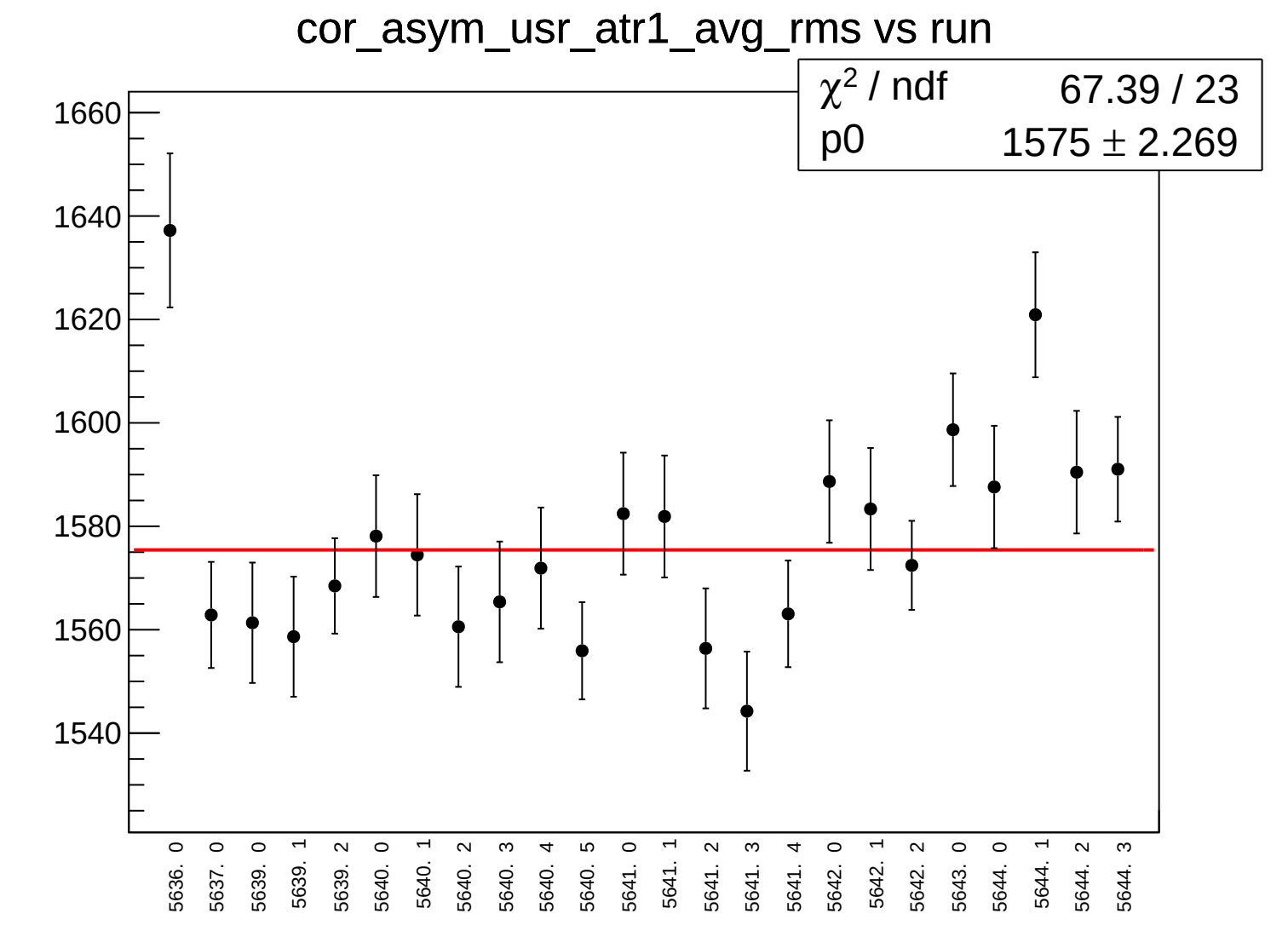

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 28.12 / 23
p0 −247.3 ± 1370
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −45.88
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

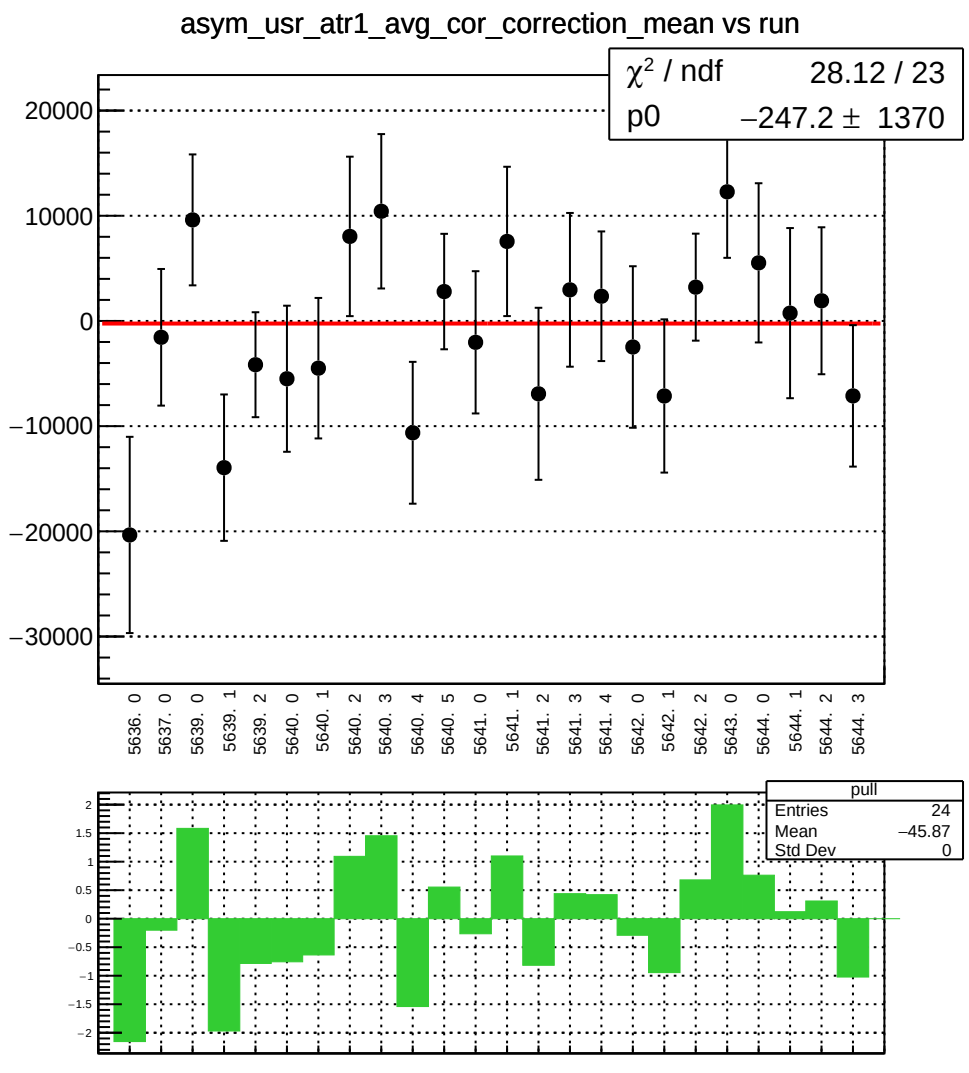

pull1D
Entries 24
Mean −0.03594
Std Dev 1.082
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

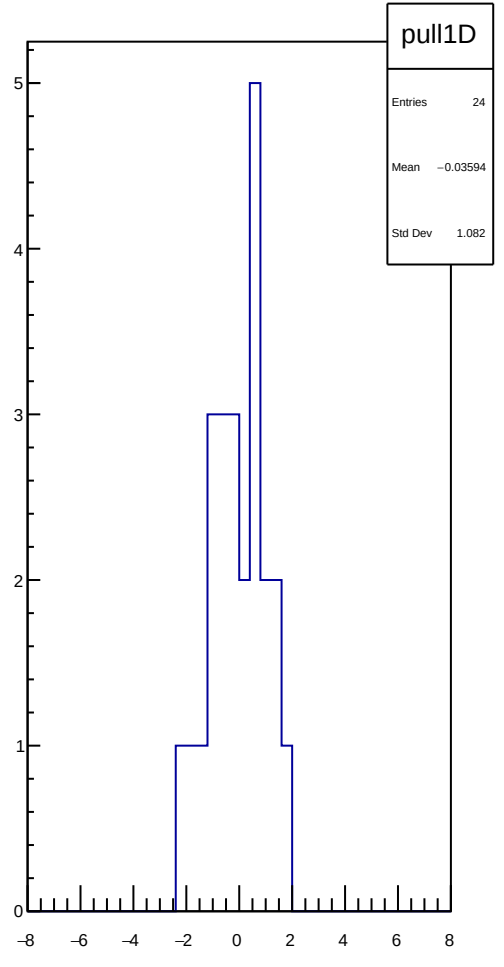

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 2295 / 23
p0 670.9 ± 0.9685
800
750
700
650
600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

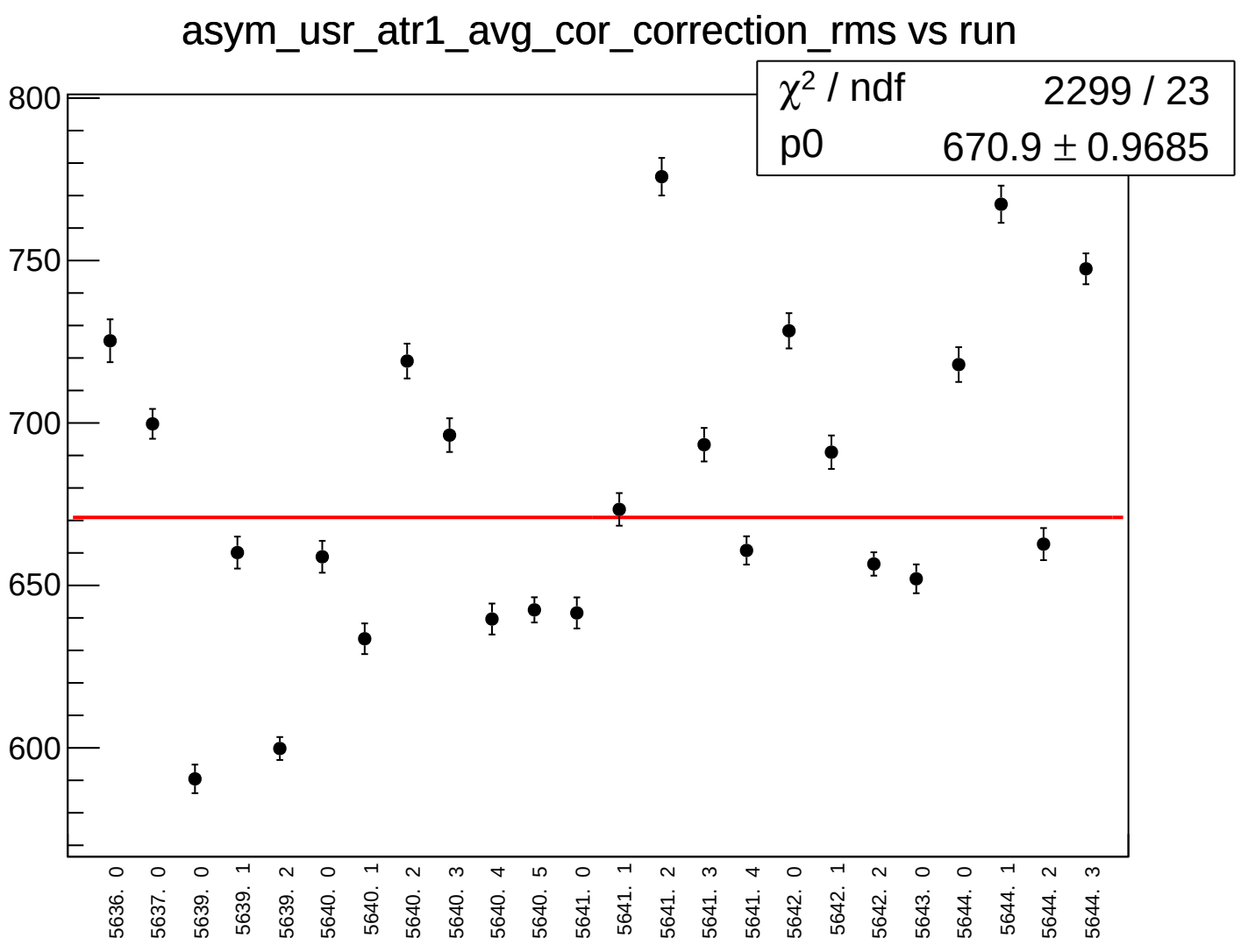

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 22.83 / 23
p0 −2391 ± 3209
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 448.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean 0.004909
Std Dev 0.9753
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 67.39 / 23
p0 1575 ± 2.269
1660
1640
1620
1600
1580
1560
1540
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 28.12 / 23
p0 −247.2 ± 1370
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −45.87
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.03594
Std Dev 1.082
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 2299 / 23
p0 670.9 ± 0.9685
800
750
700
650
600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
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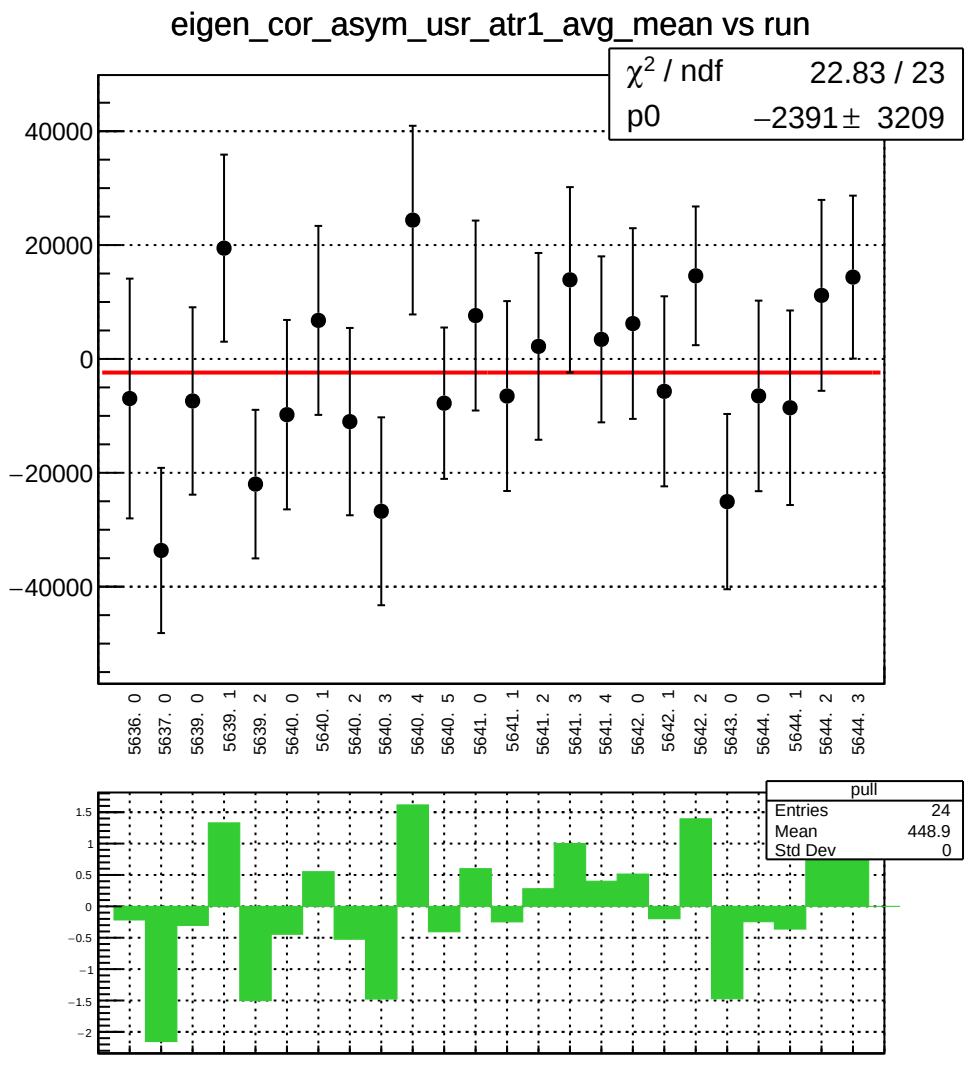
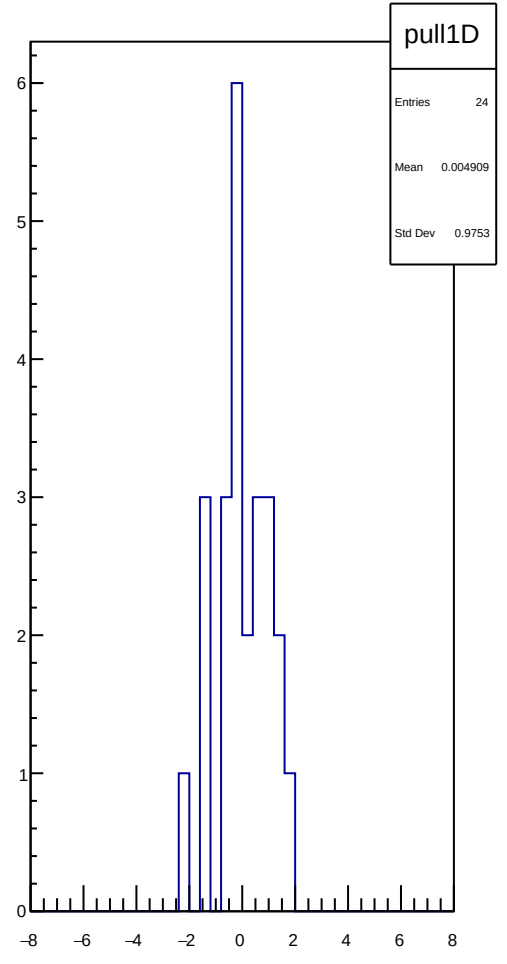
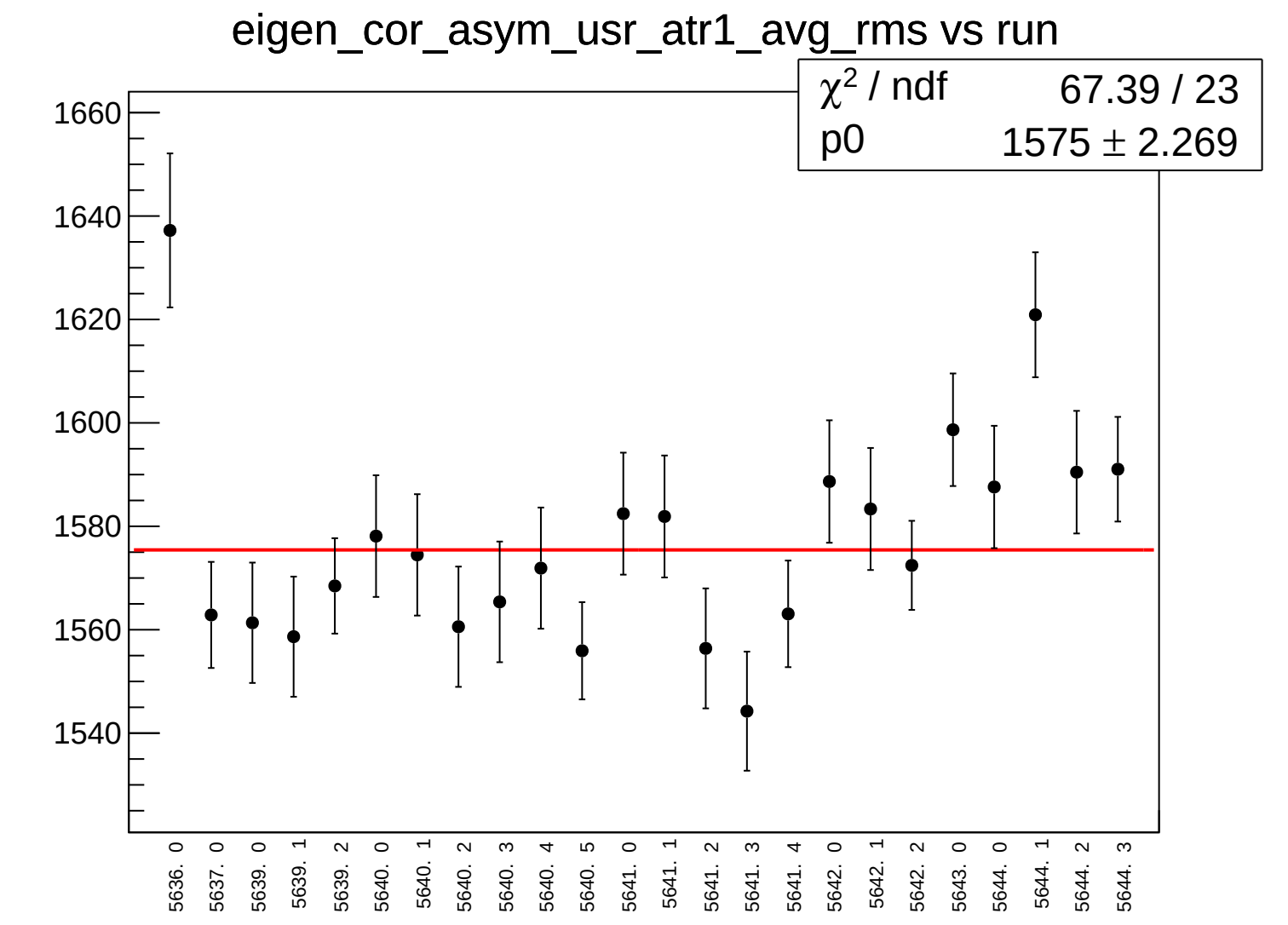
5644. 2
5644. 3


eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 22.83 / 23
p0 −2391 ± 3209
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 448.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean 0.004909
Std Dev 0.9753
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 67.39 / 23
p0 1575 ± 2.269
1660
1640
1620
1600
1580
1560
1540
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5642. 0
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5643. 0
5644. 0
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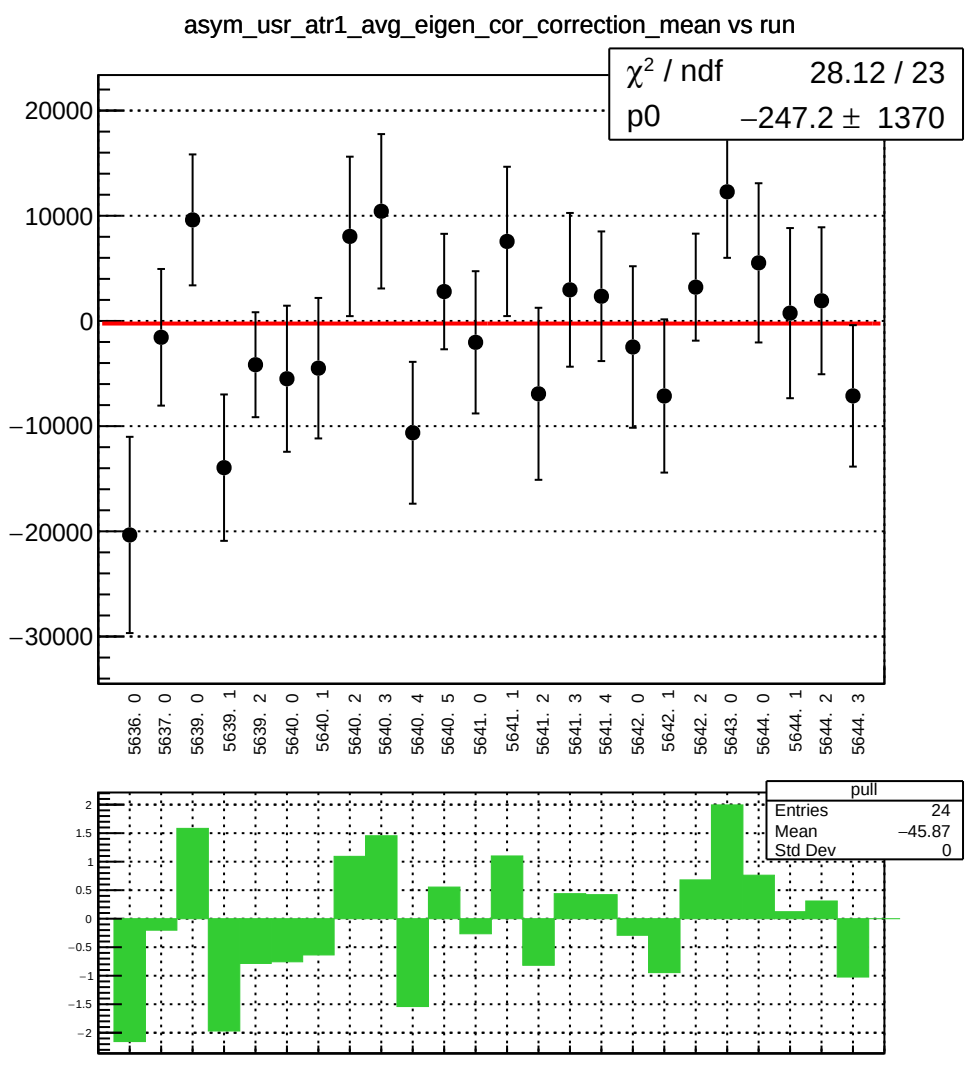
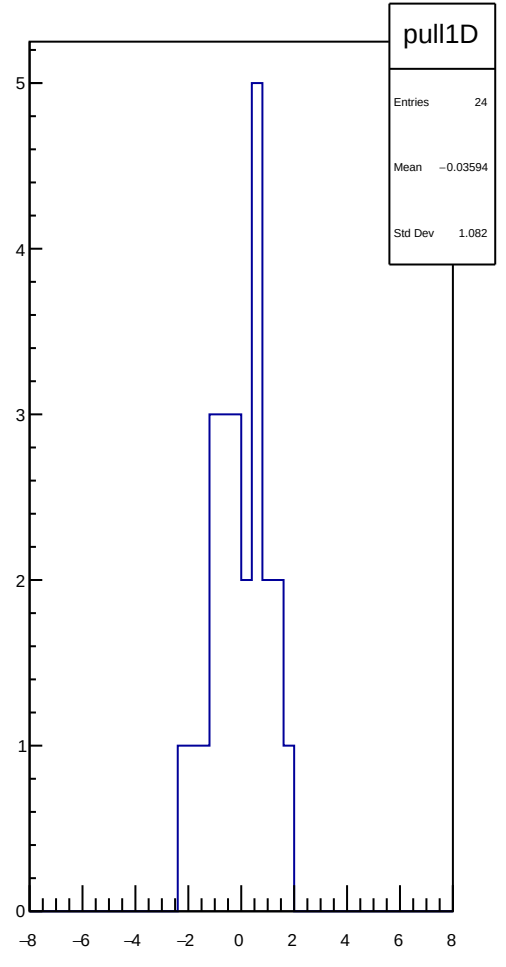
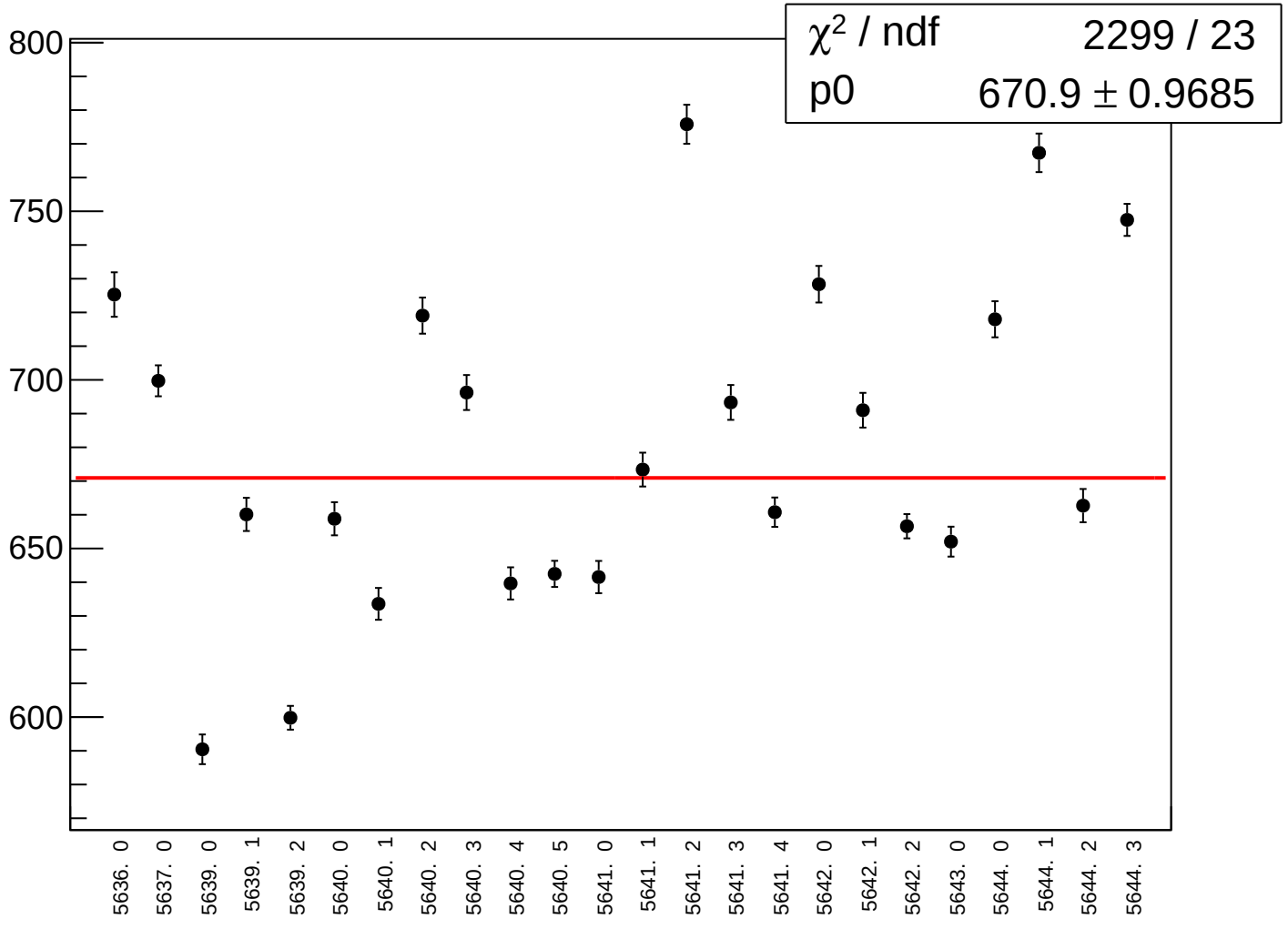
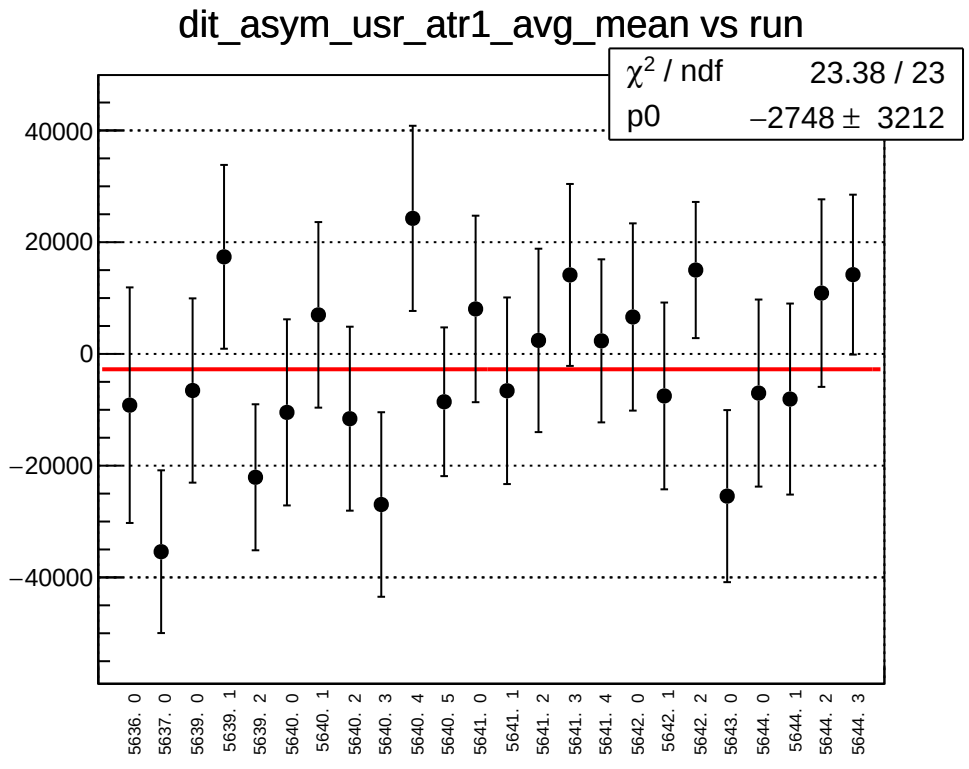
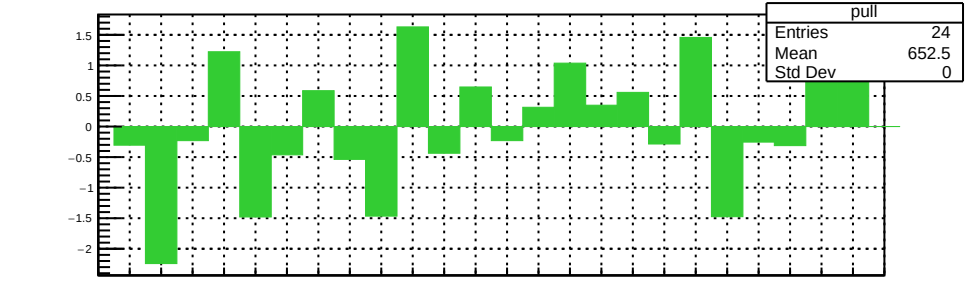
5644. 2
5644. 3

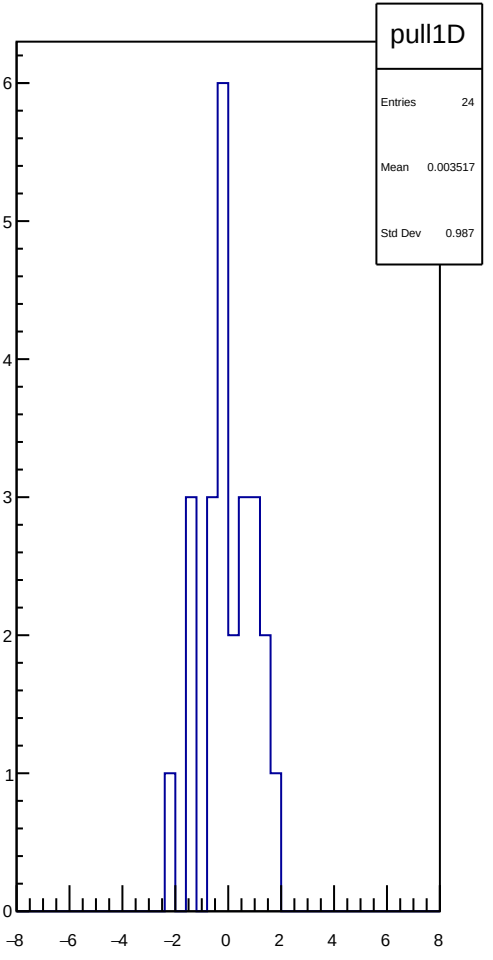

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 28.12 / 23
p0 −247.2 ± 1370
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −45.87
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

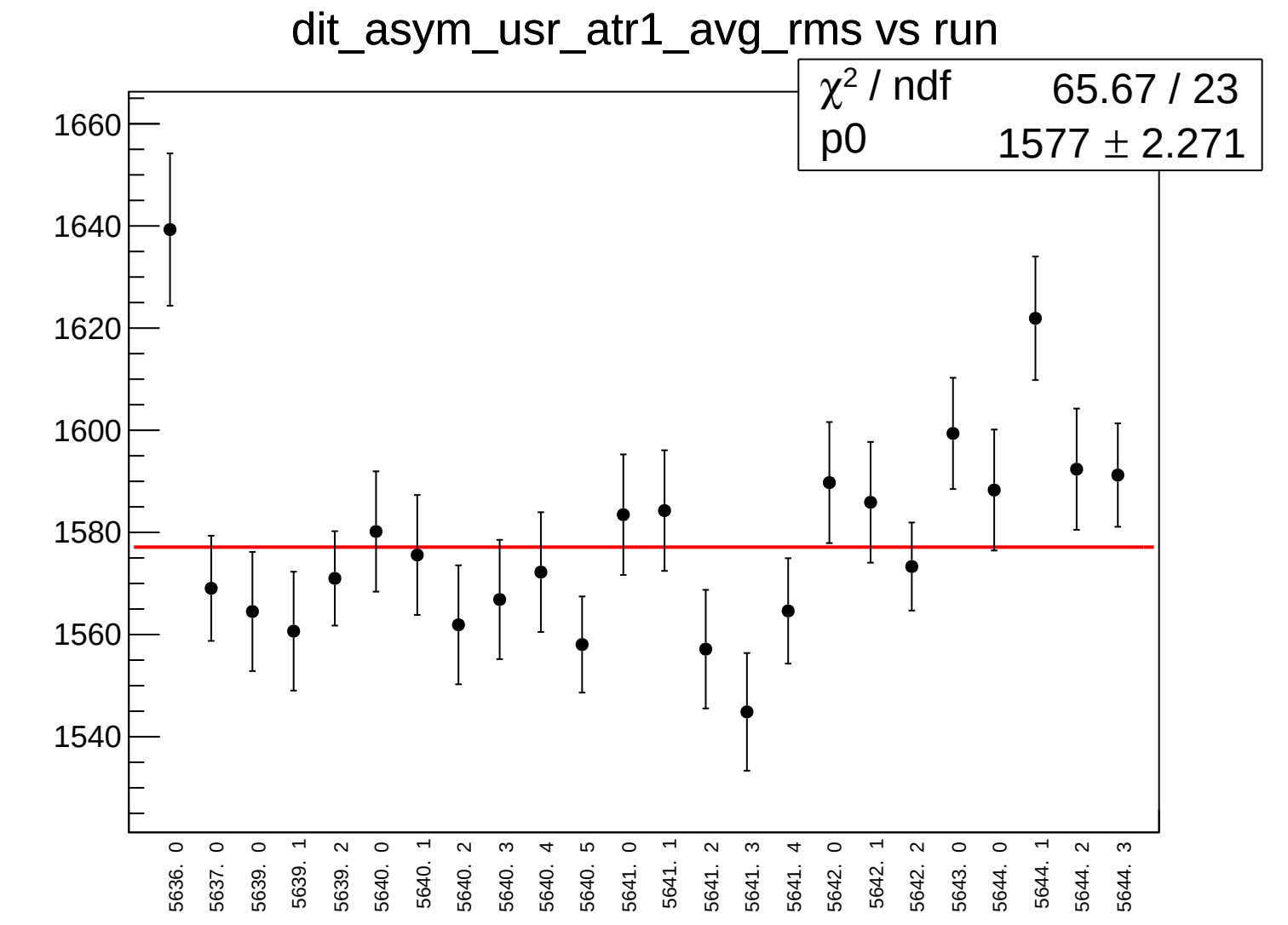

pull1D
Entries 24
Mean −0.03594
Std Dev 1.082
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

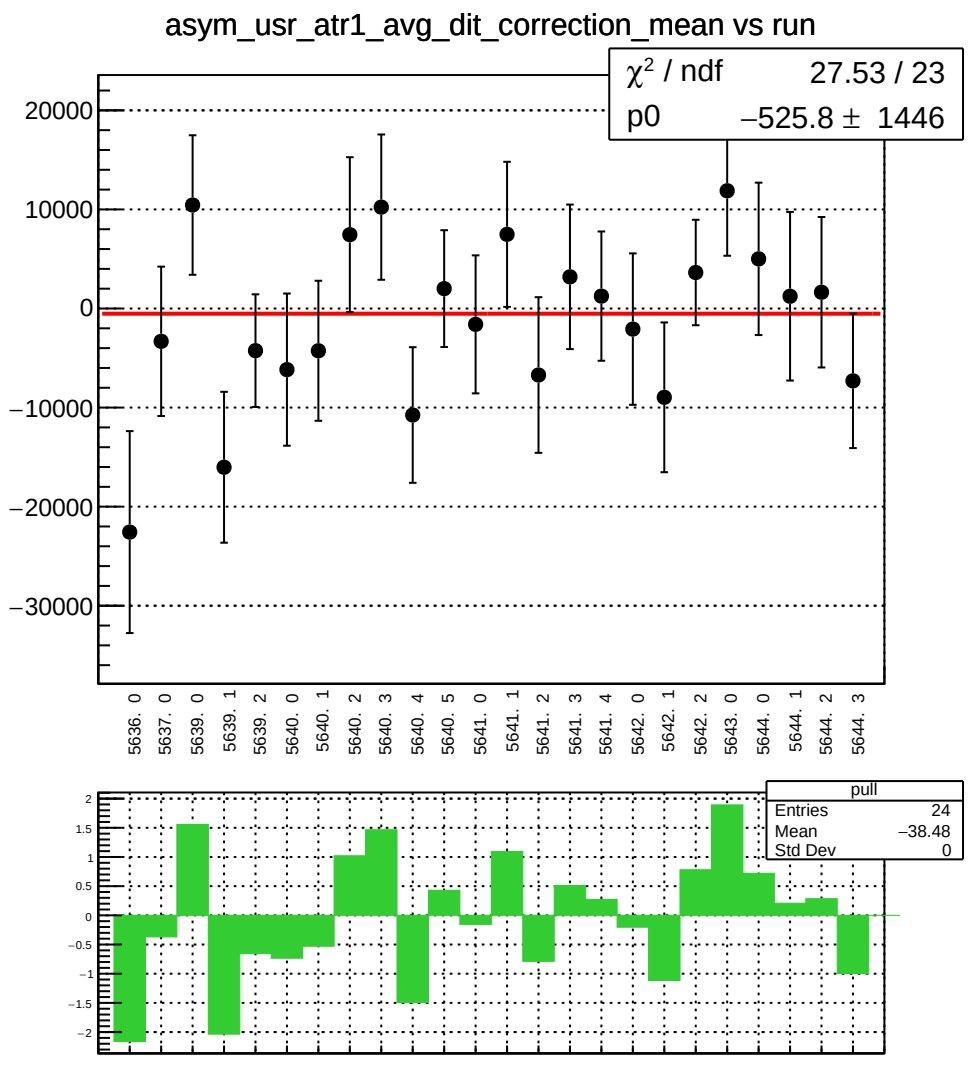

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 2299 / 23
p0 670.9 ± 0.9685
800
750
700
650
600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

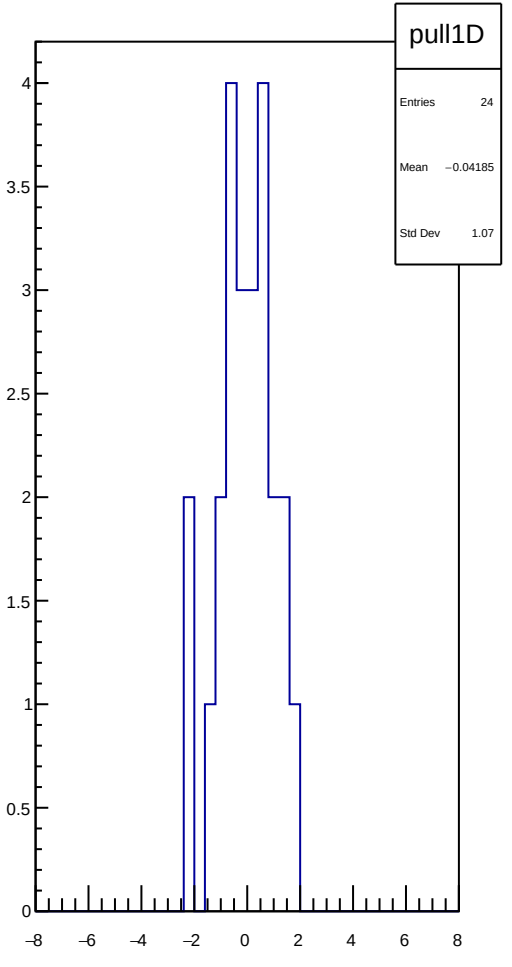

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 23.38 / 23
p0 −2748 ± 3212
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

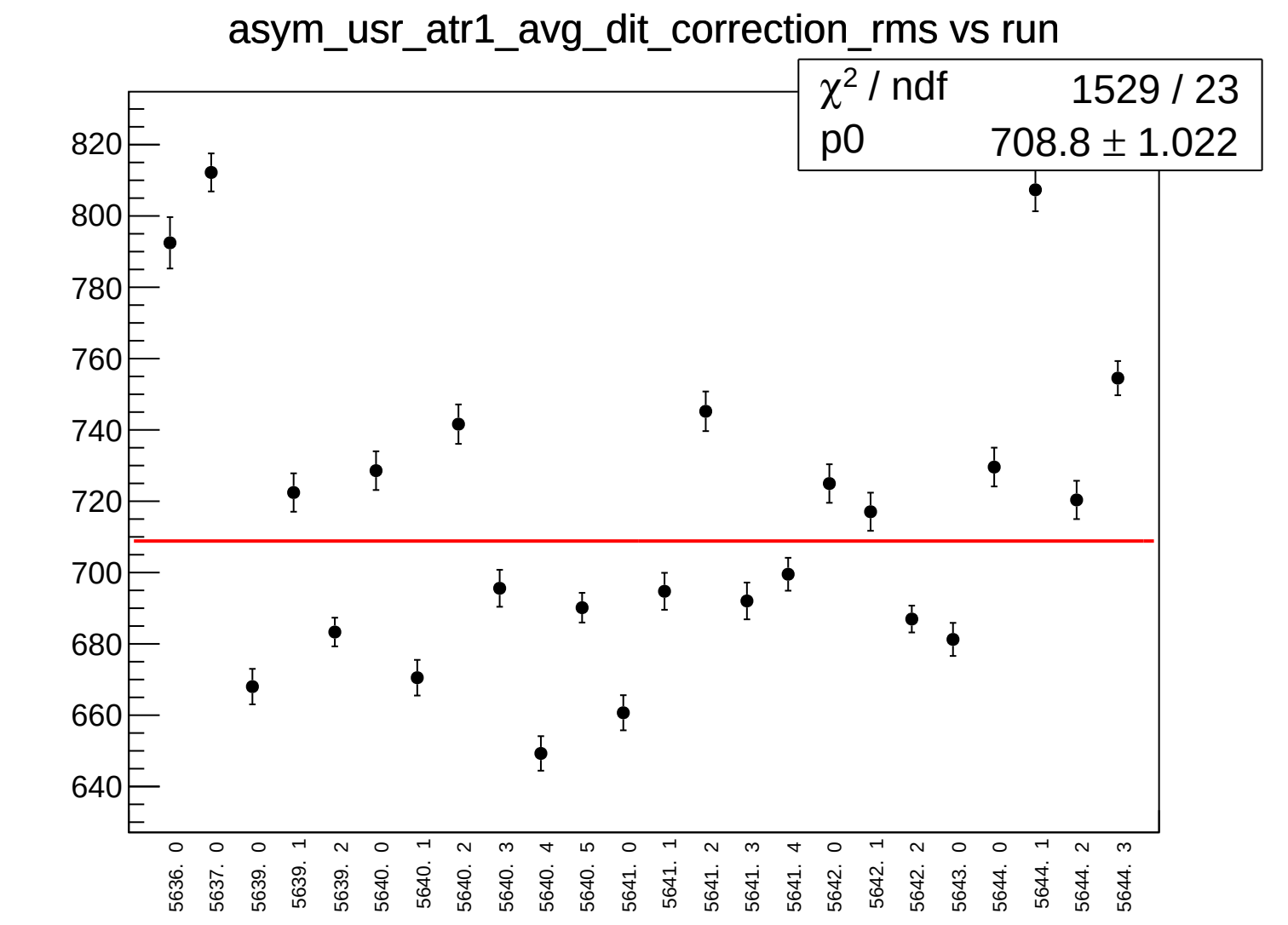

pull
Entries 24
Mean 652.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

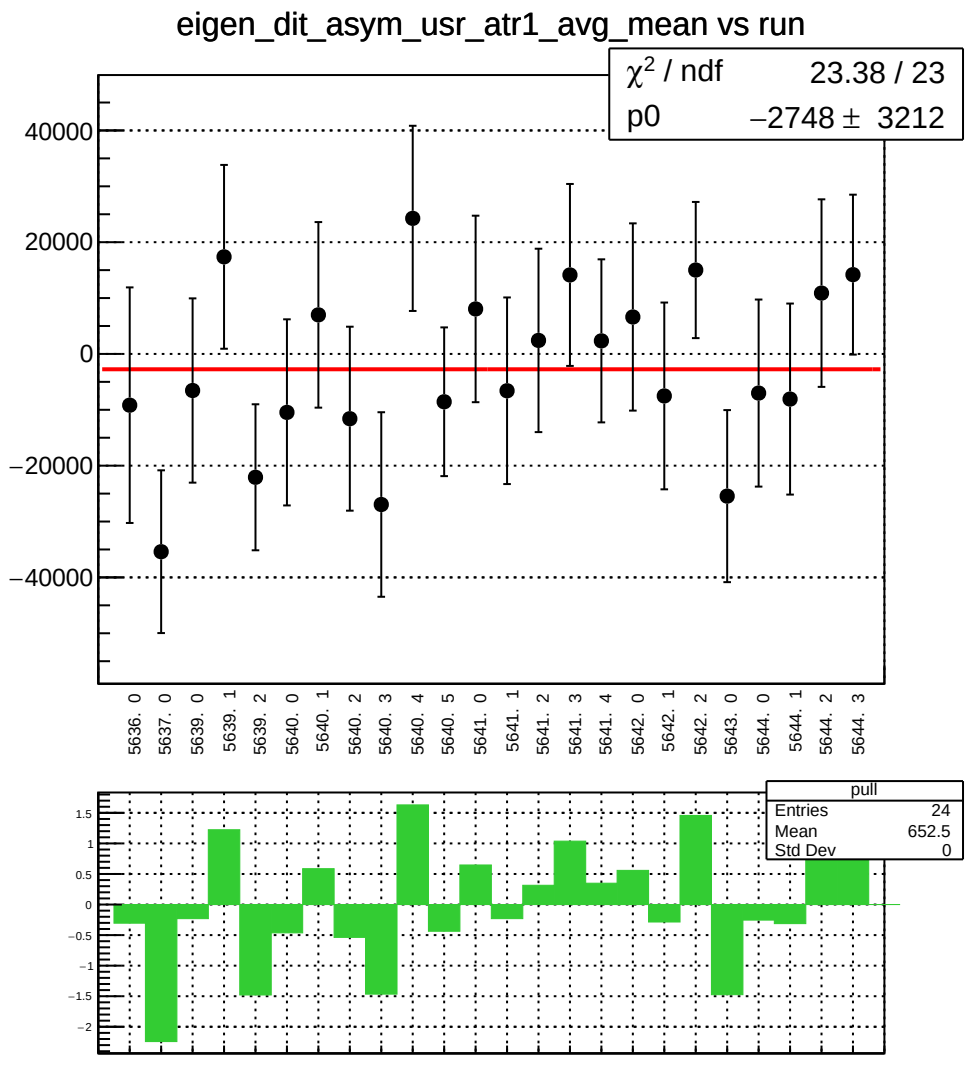

pull1D
Entries 24
Mean 0.003517
Std Dev 0.987
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

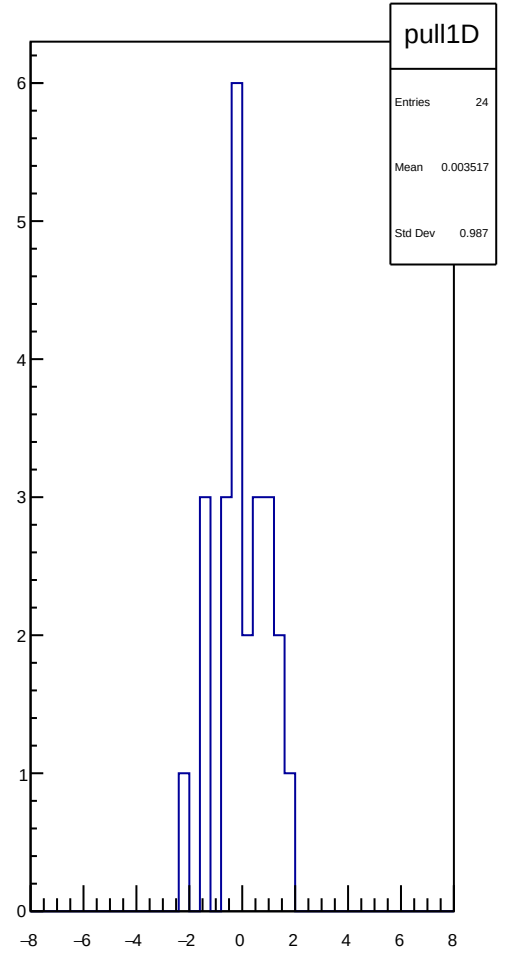

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 65.67 / 23
p0 1577 ± 2.271
1660
1640
1620
1600
1580
1560
1540
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

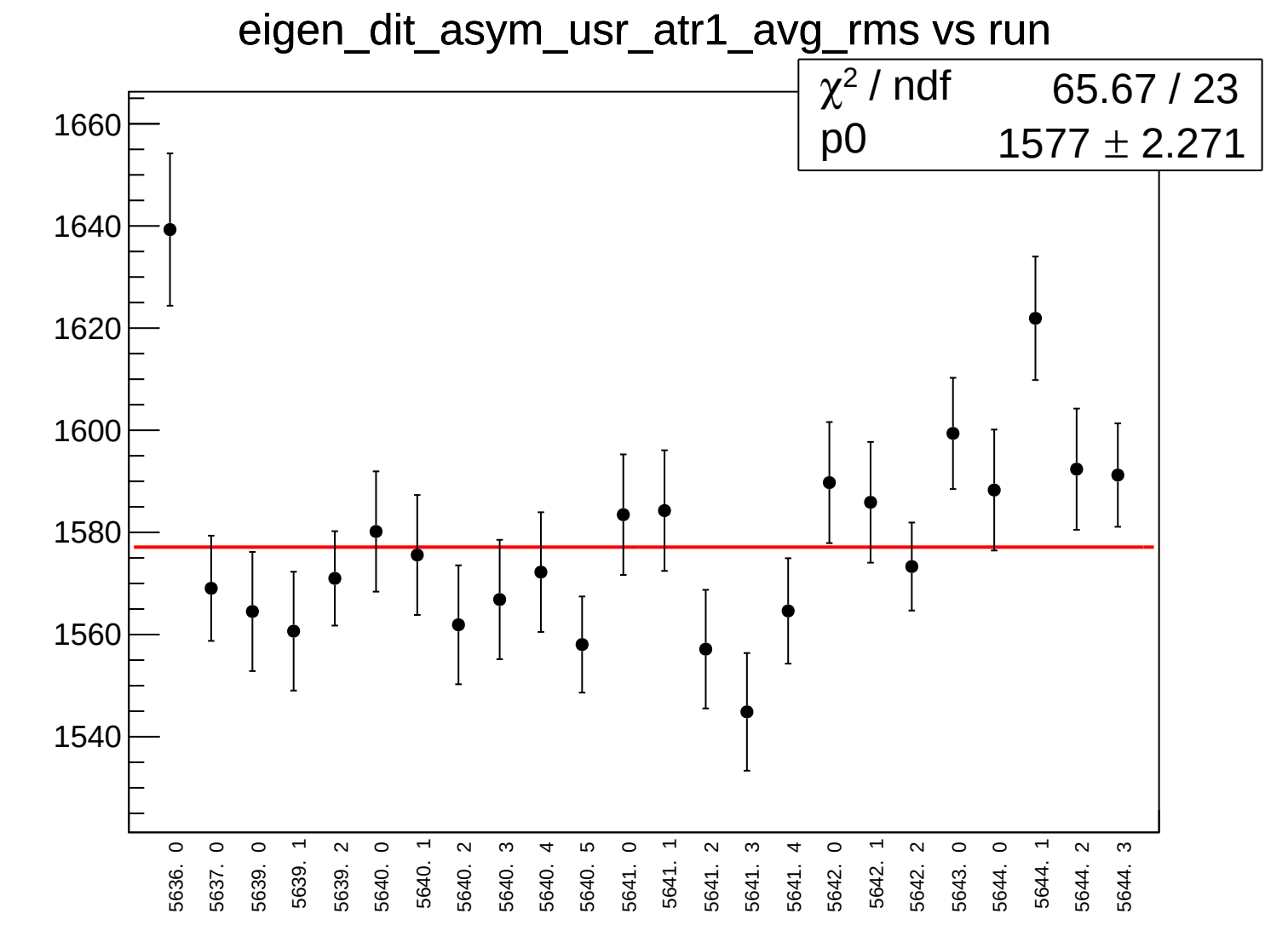

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 27.53 / 23
p0 −525.8 ± 1446
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −38.48
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

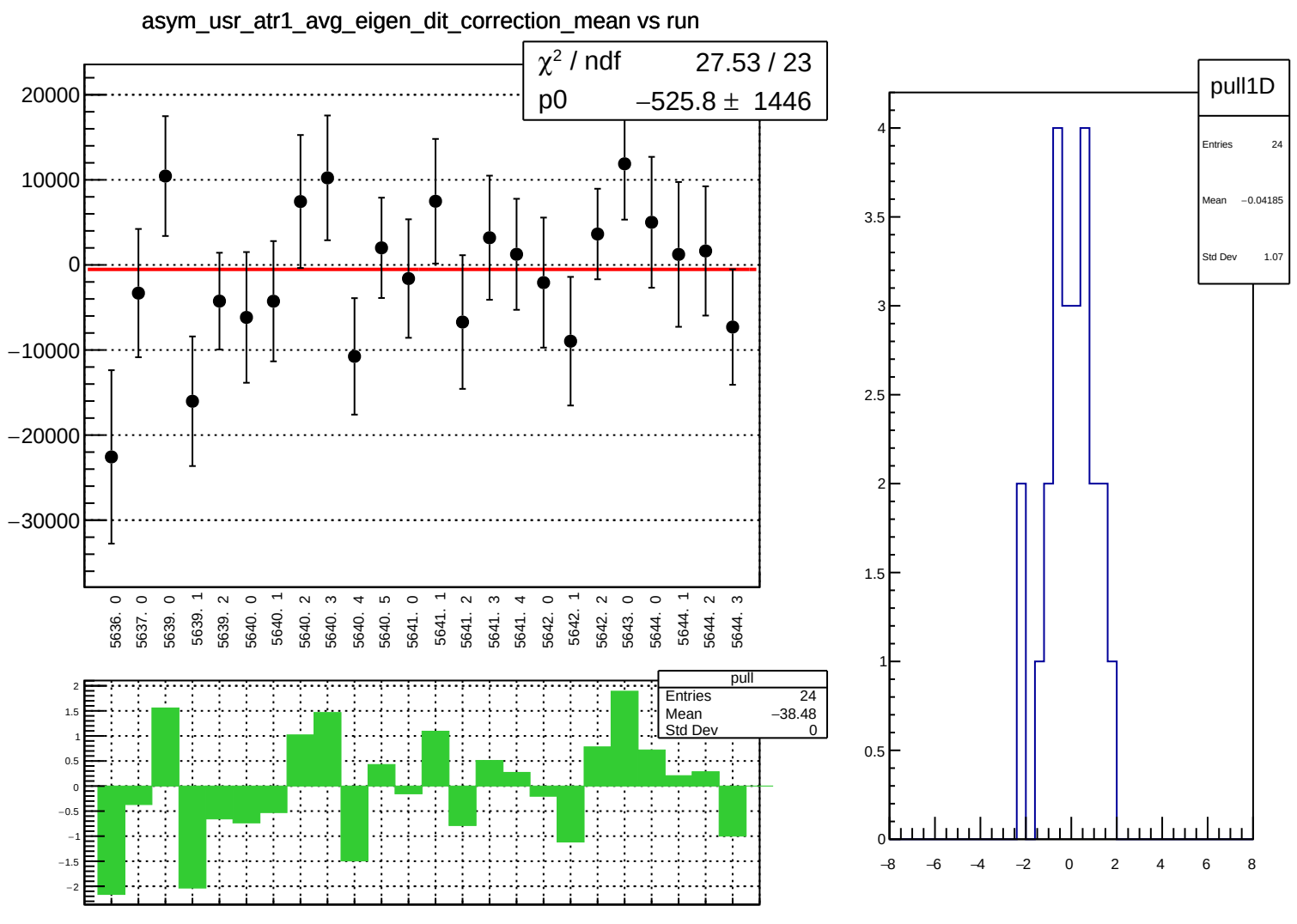

pull1D
Entries 24
Mean −0.04185
Std Dev 1.07
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

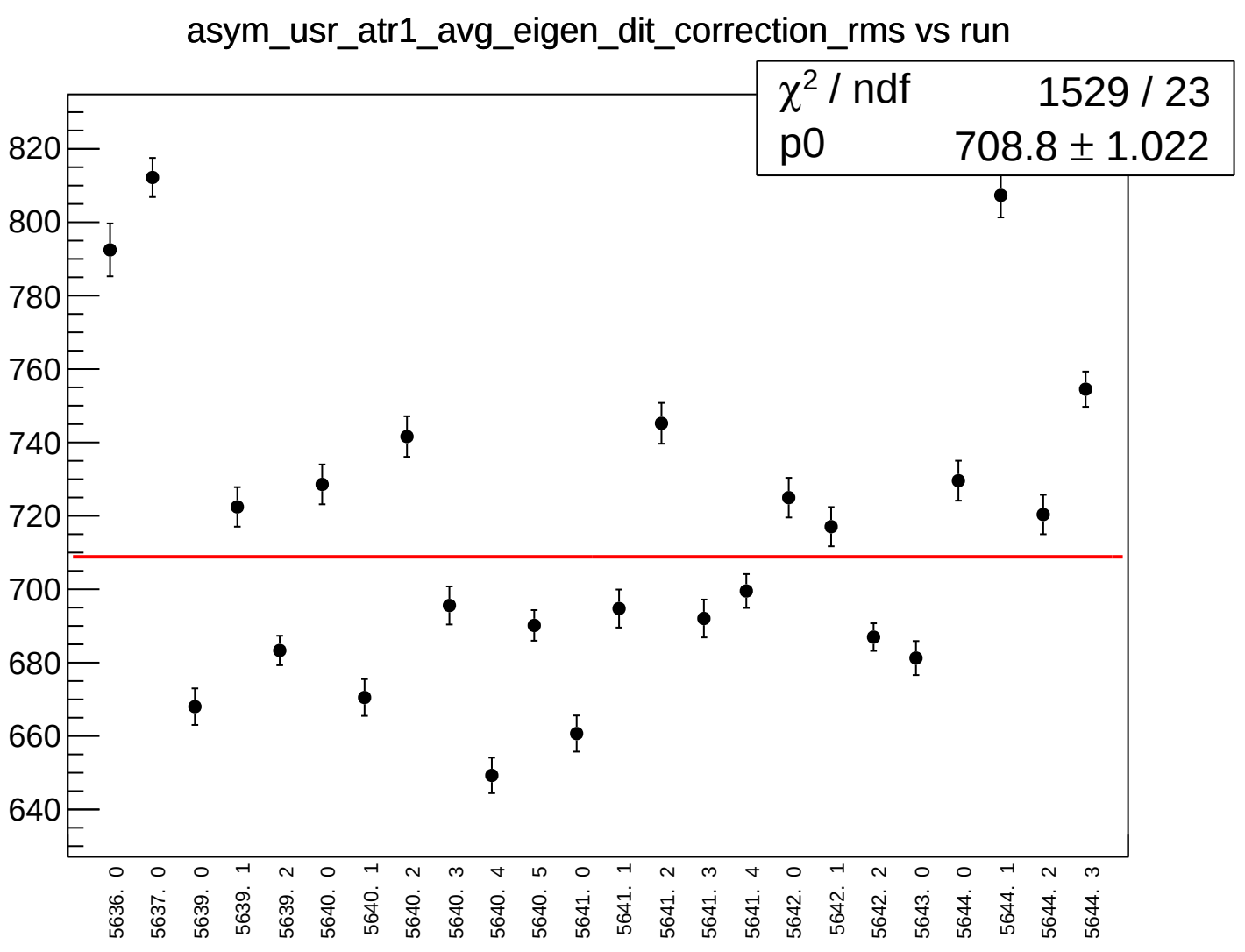

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 1529 / 23
p0 708.8 ± 1.022
820
800
780
760
740
720
700
680
660
640
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 23.38 / 23
p0 −2748 ± 3212
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 652.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean 0.003517
Std Dev 0.987
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 65.67 / 23
p0 1577 ± 2.271
1660
1640
1620
1600
1580
1560
1540
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 27.53 / 23
p0 −525.8 ± 1446
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −38.48
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.04185
Std Dev 1.07
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1529 / 23
p0 708.8 ± 1.022
820
800
780
760
740
720
700
680
660
640
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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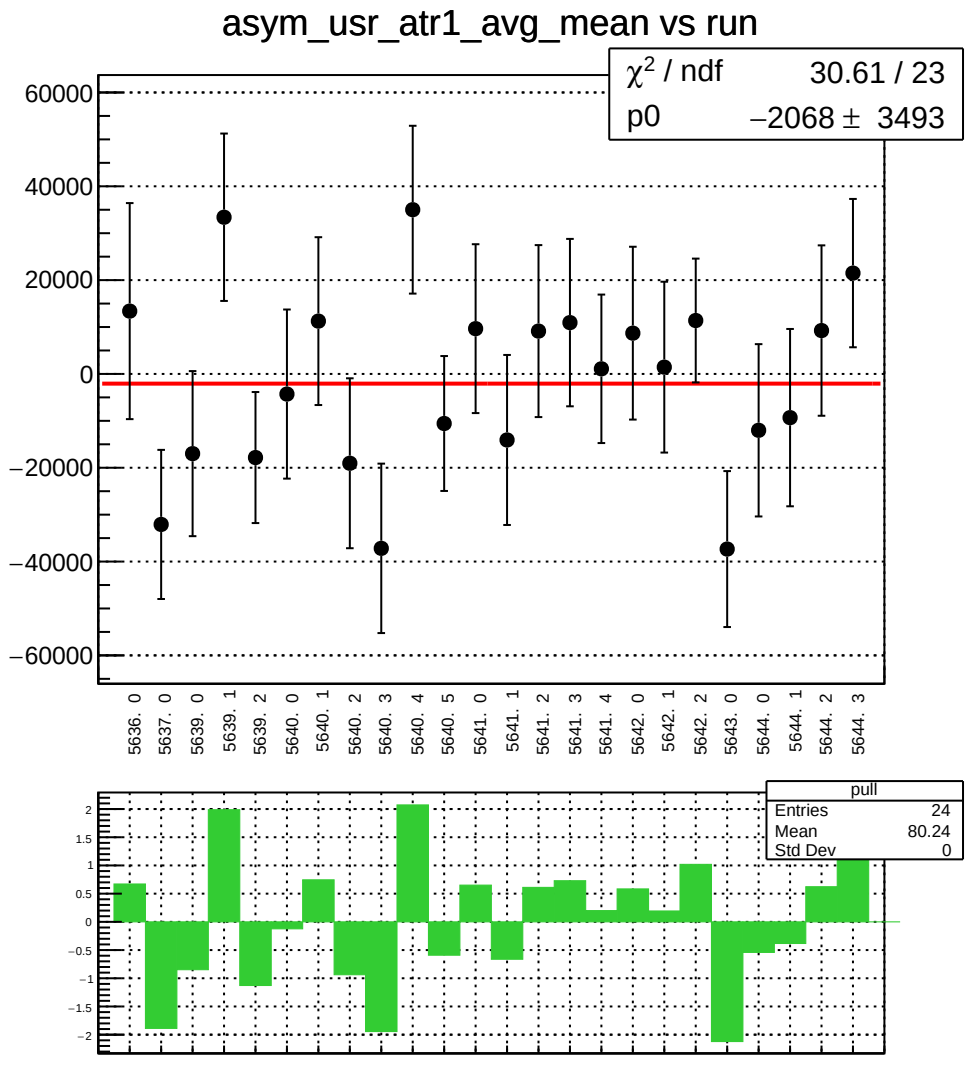
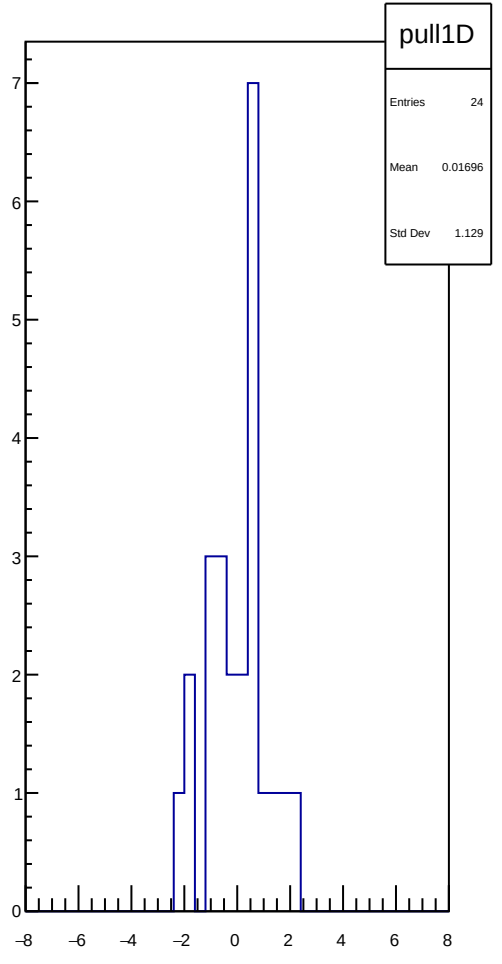
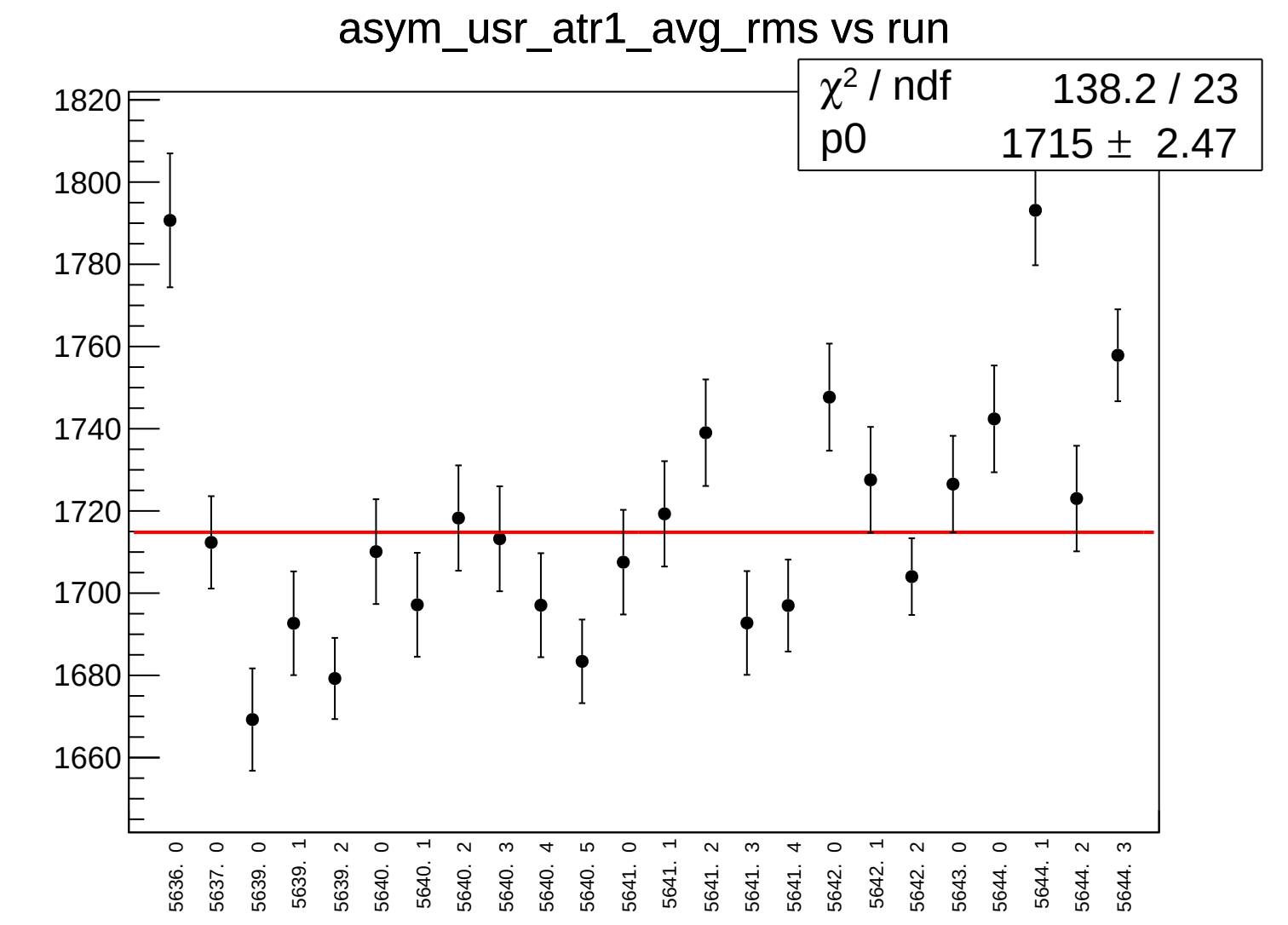
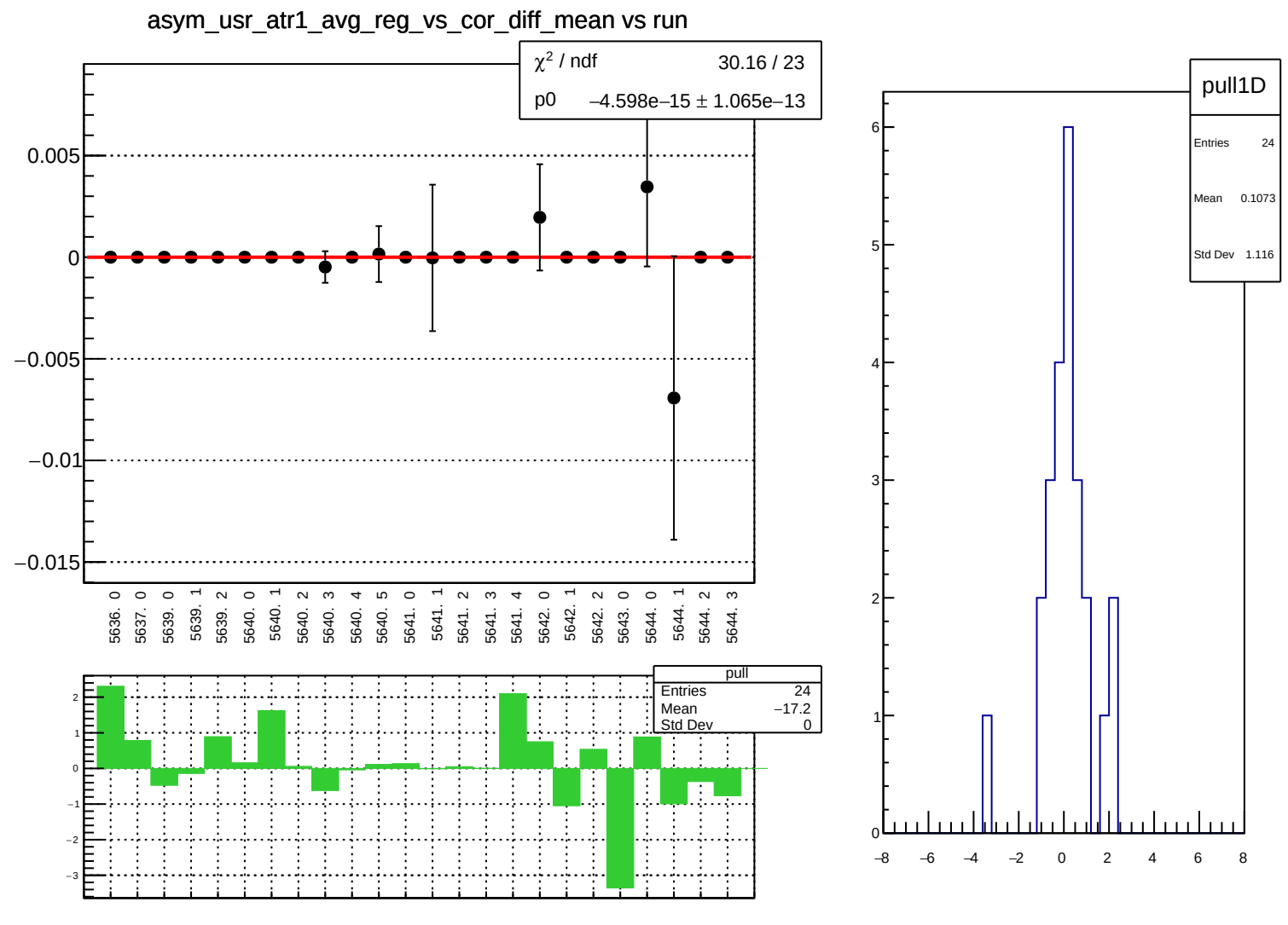
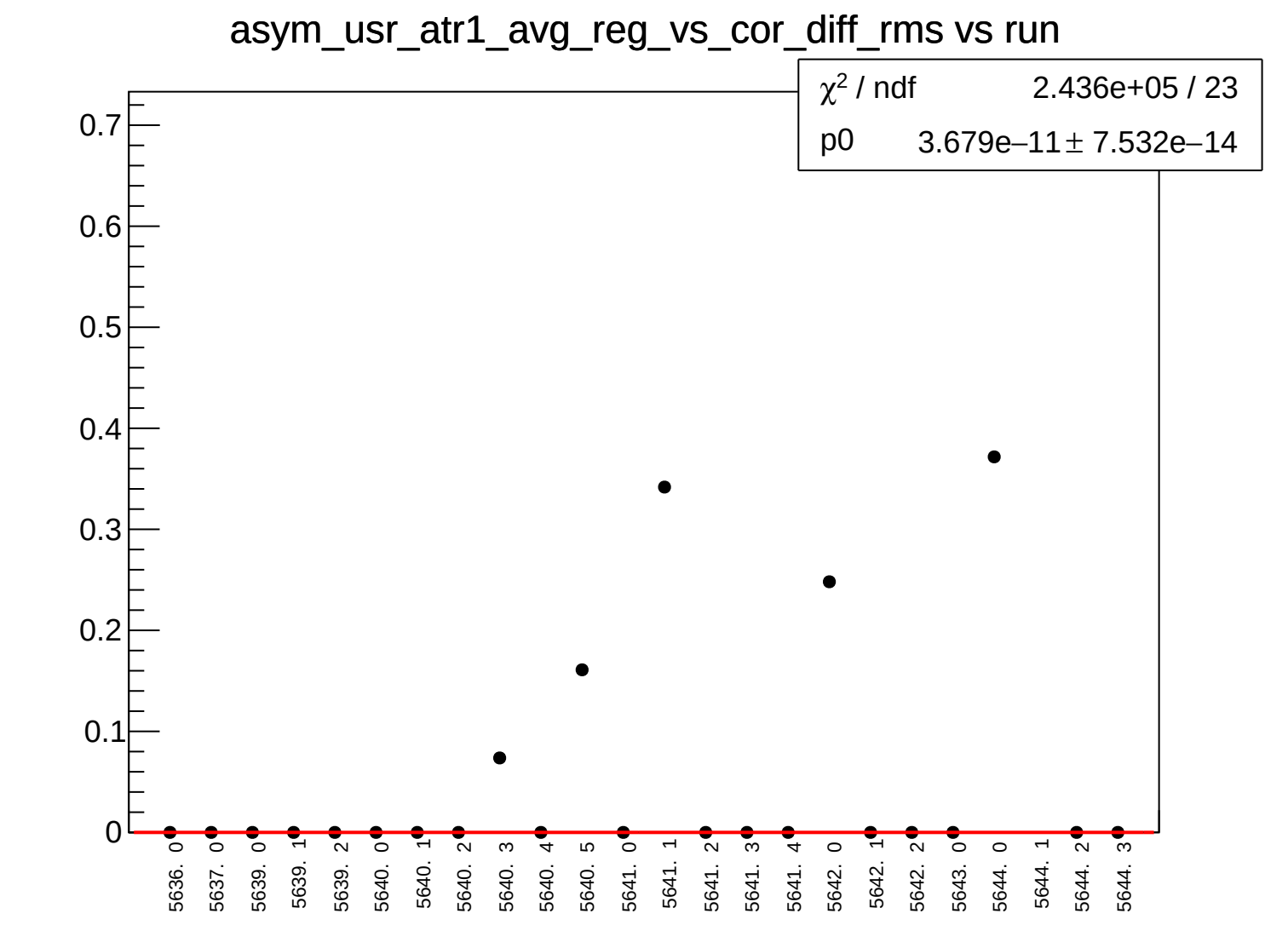
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

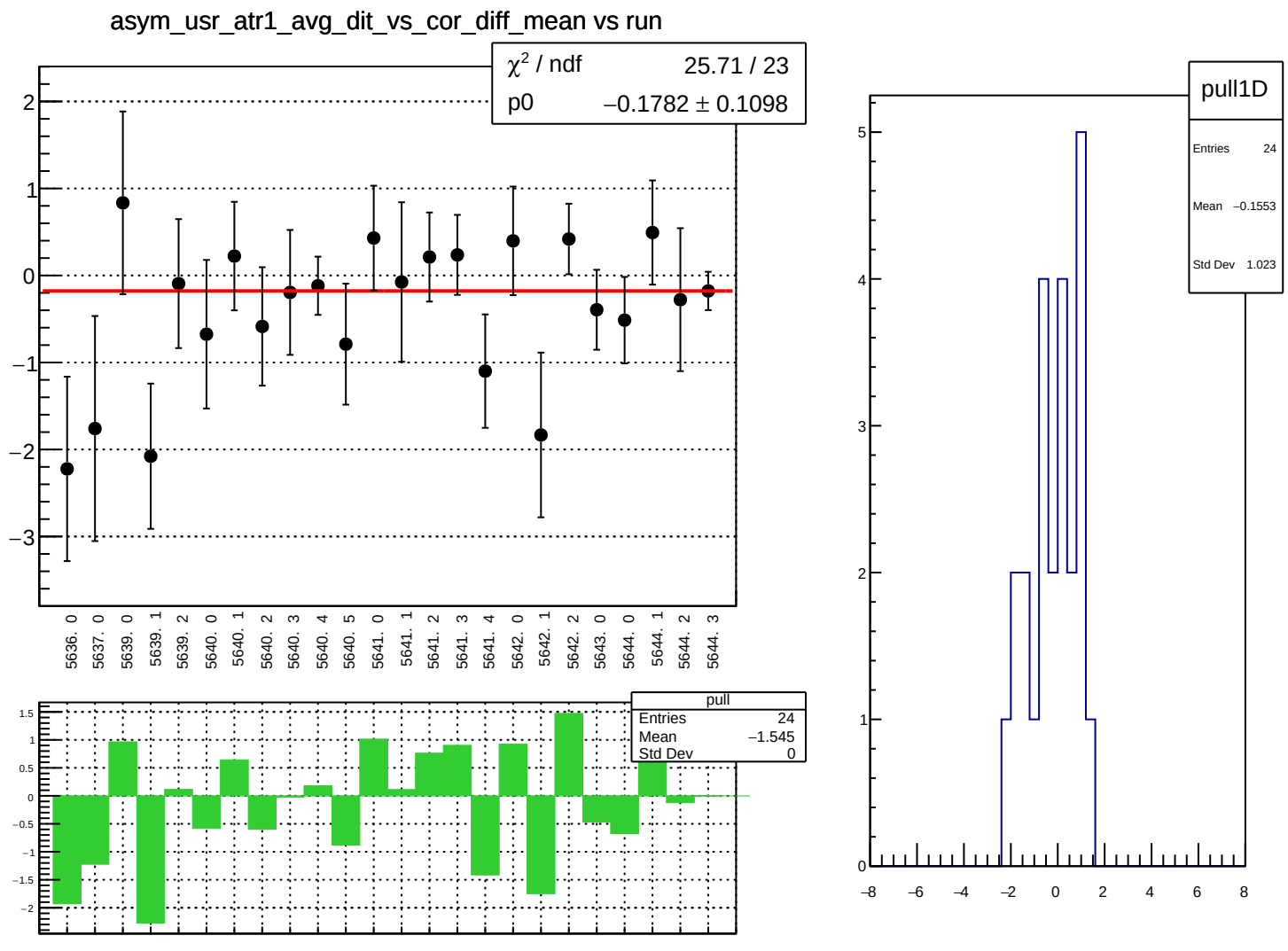

asym_usr_atr1_avg_mean vs run
χ² / ndf 30.61 / 23
p0 −2068 ± 3493
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 80.24
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

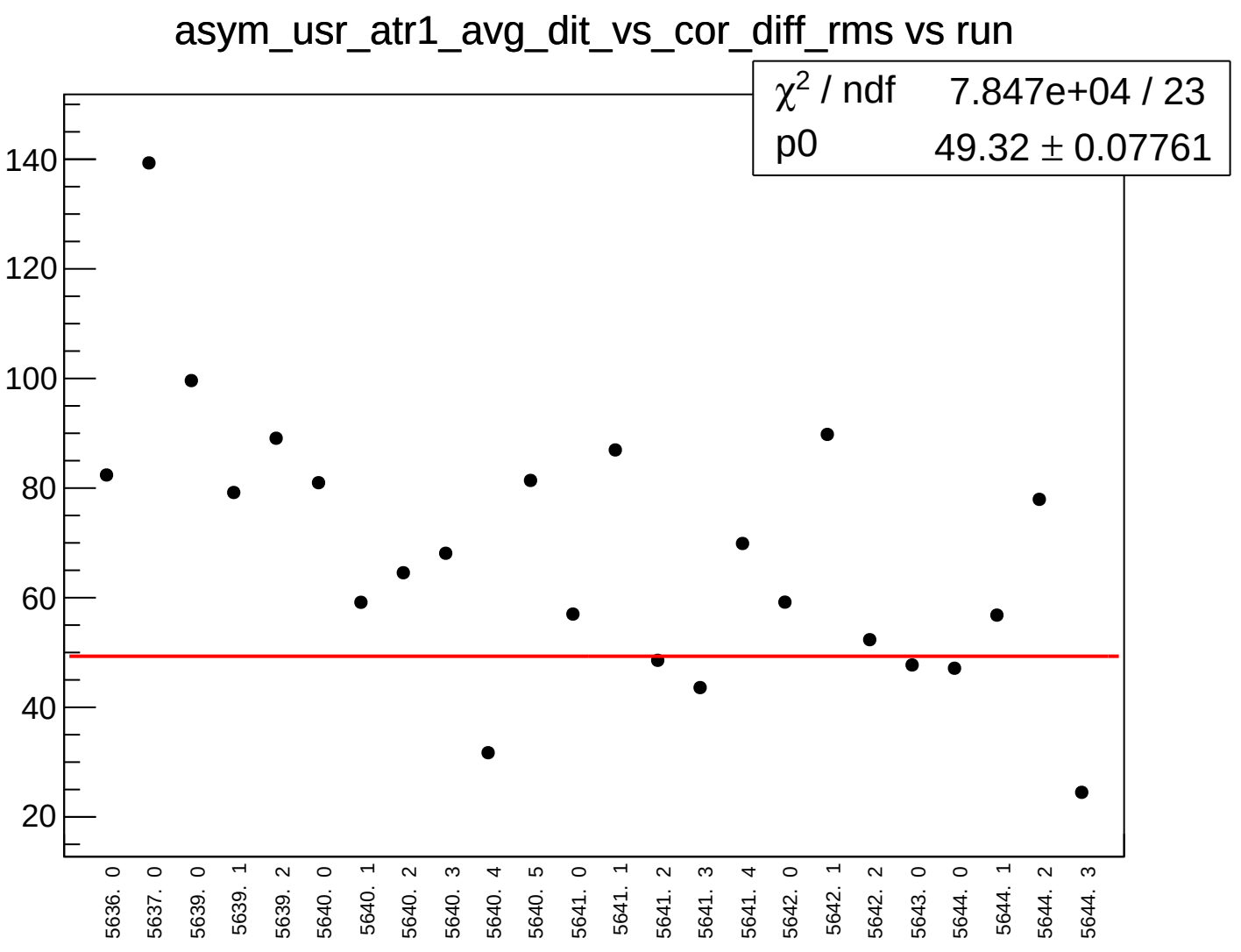

pull1D
Entries 24
Mean 0.01696
Std Dev 1.129
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

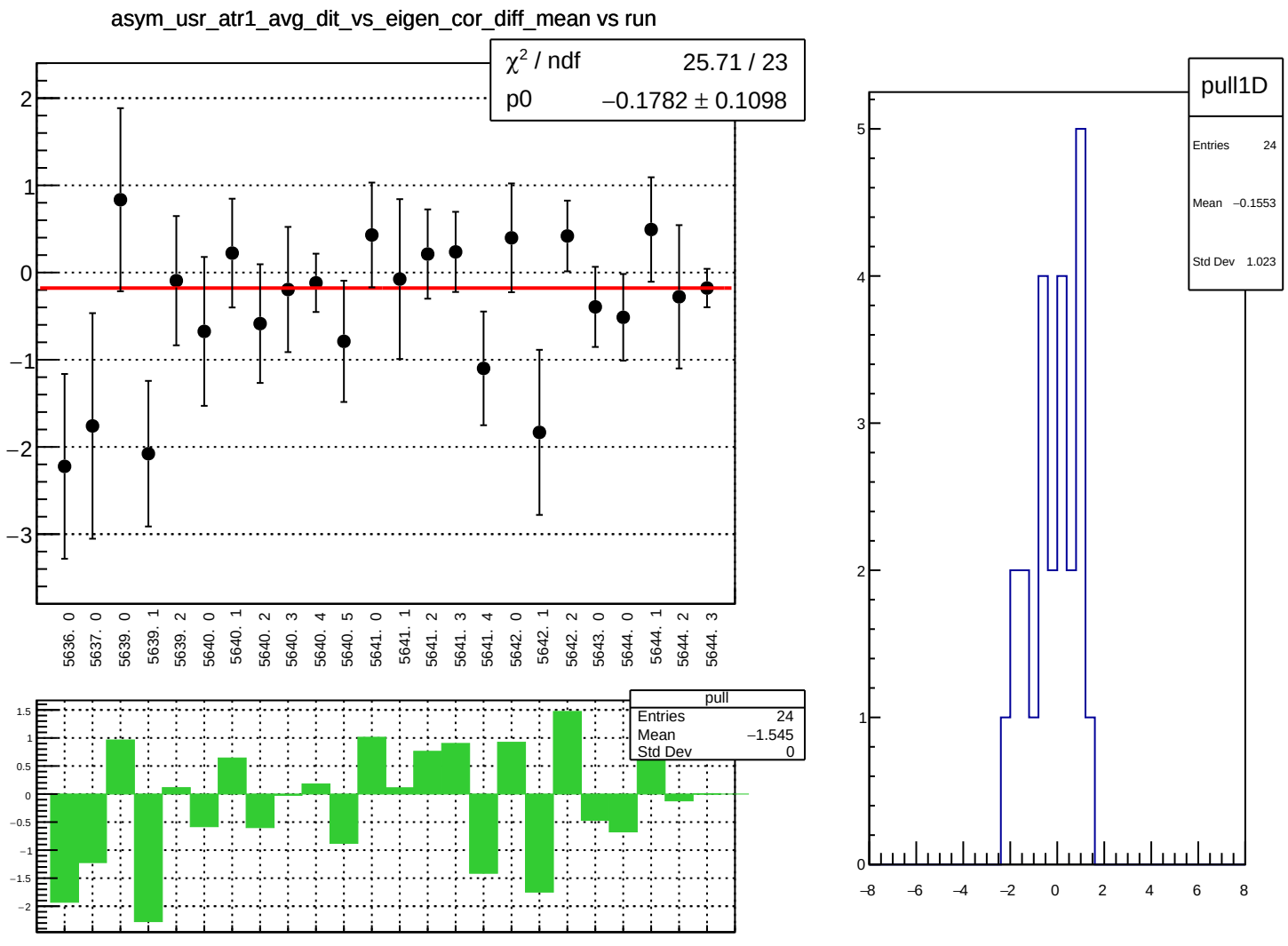

asym_usr_atr1_avg_rms vs run
χ² / ndf 138.2 / 23
p0 1715 ± 2.47
1820
1800
1780
1760
1740
1720
1700
1680
1660
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

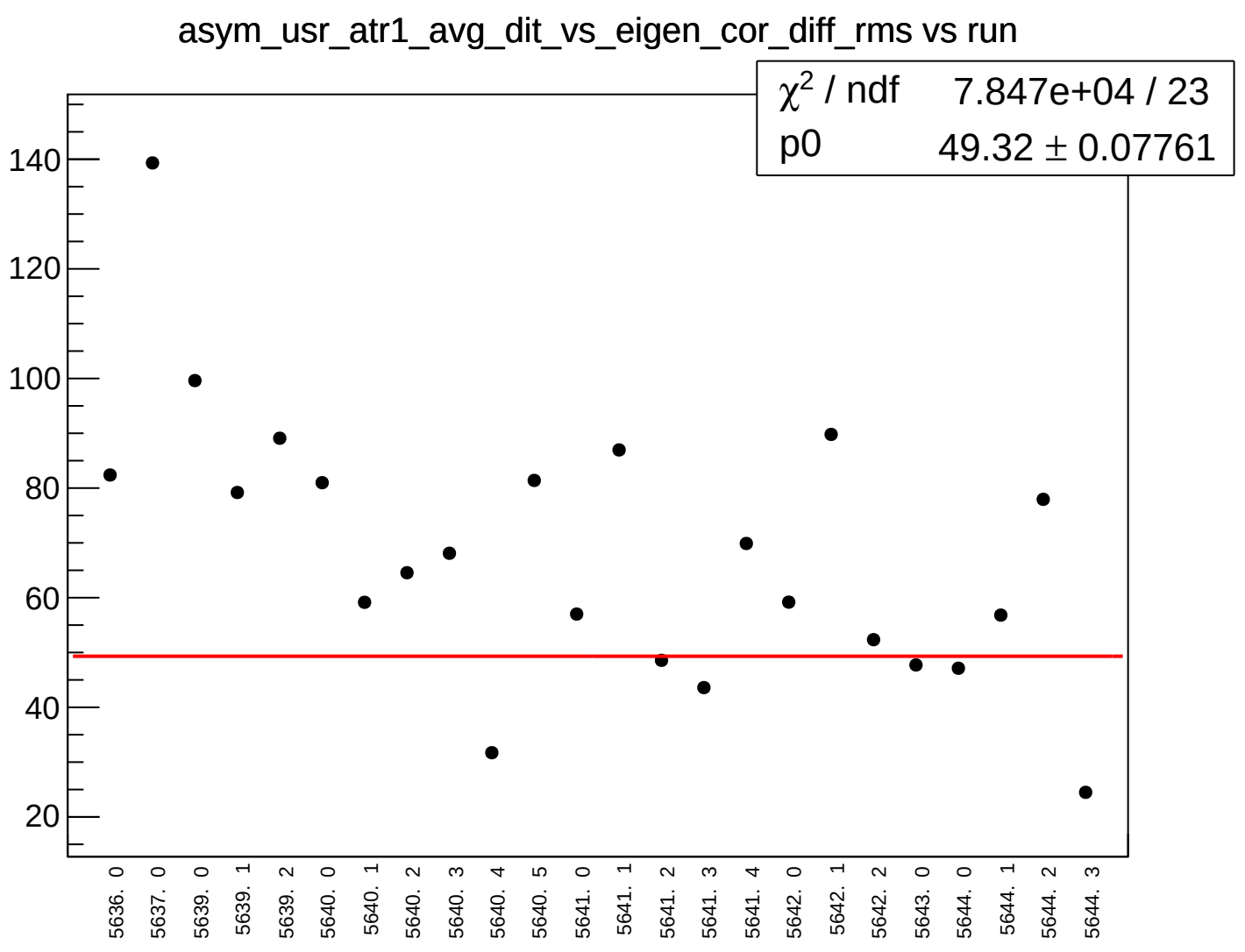

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 30.16 / 23
p0 −4.598e−15 ± 1.065e−13
0.005
0
−0.005
−0.01
−0.015
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −17.2
Std Dev 0
pull1D
Entries 24
Mean 0.1073
Std Dev 1.116

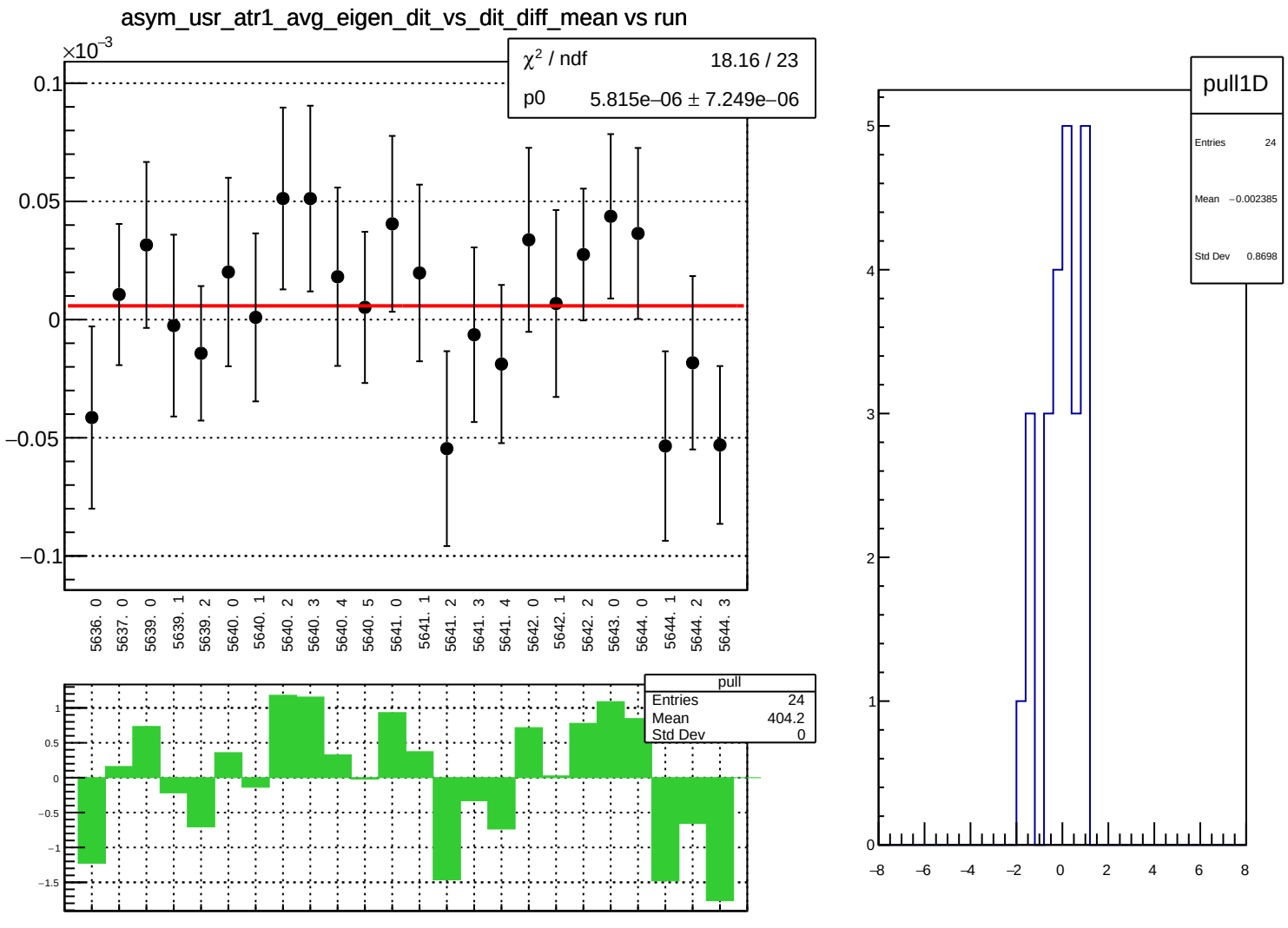

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.436e+05 / 23
p0 3.679e−11 ± 7.532e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

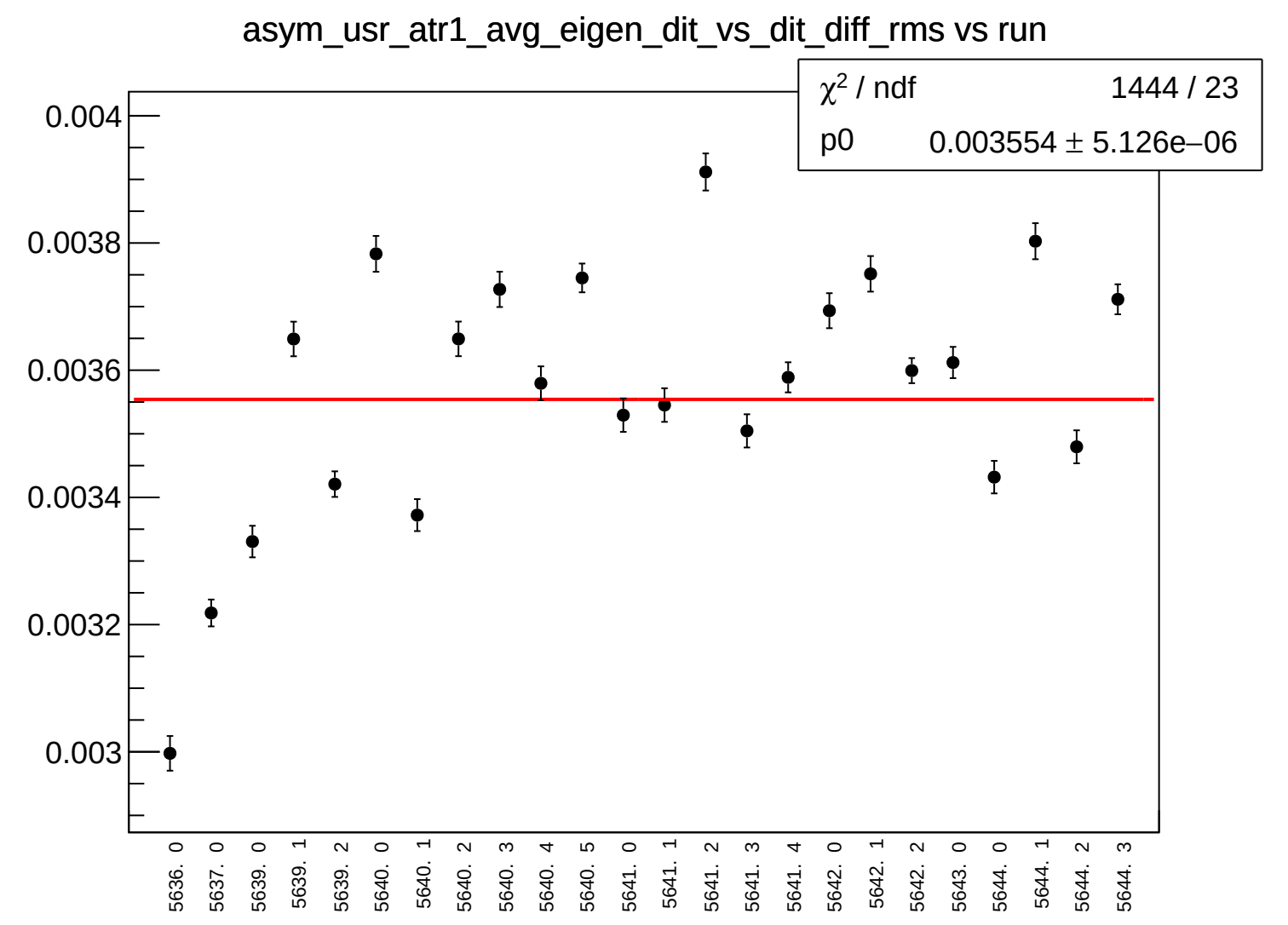

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 25.71 / 23
p0 −0.1782 ± 0.1098
2
1
0
−1
−2
−3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −1.545
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.1553
Std Dev 1.023
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ2 / ndf 7.847e+04 / 23
p0 49.32 ± 0.07761
140
120
100
80
60
40
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

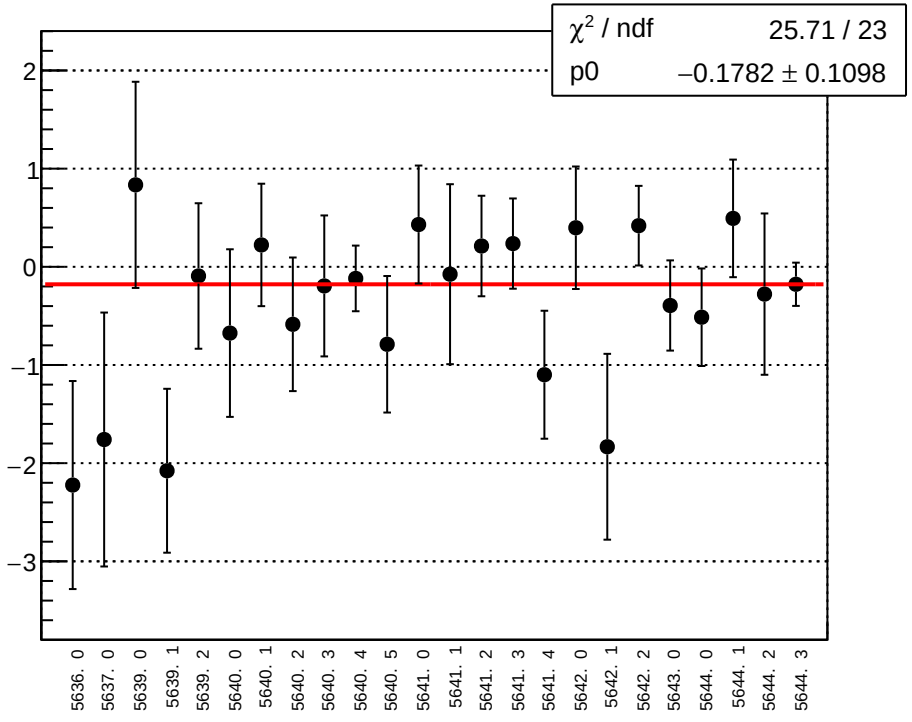

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.71 / 23
p0 −0.1782 ± 0.1098
2
1
0
−1
−2
−3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −1.545
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.1553
Std Dev 1.023
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

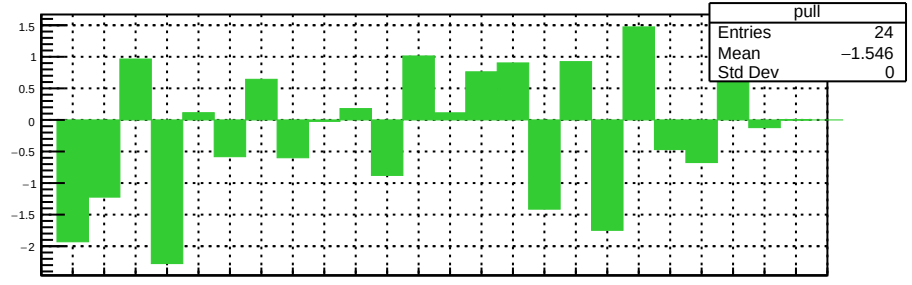

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.847e+04 / 23
p0 49.32 ± 0.07761
140
120
100
80
60
40
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

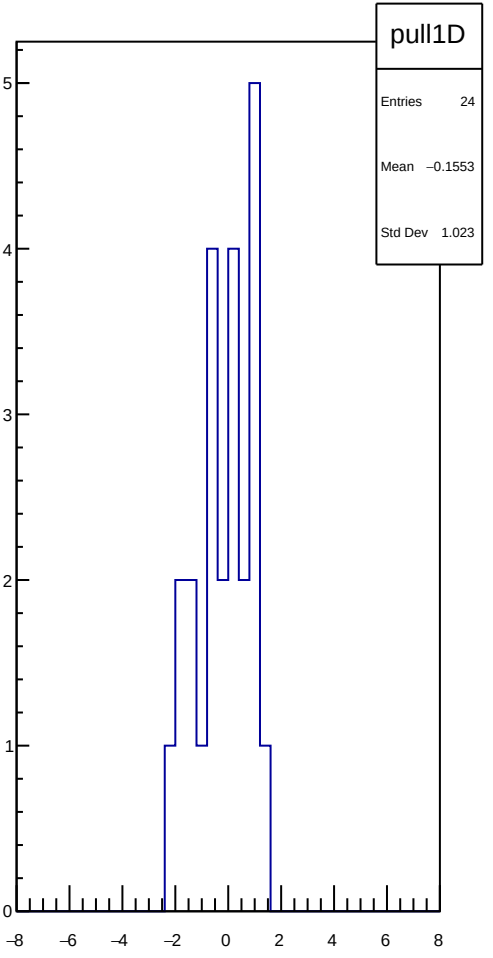

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 18.16 / 23
p0 5.815e−06 ± 7.249e−06
0.1
0.05
0
−0.05
−0.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 404.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.002385
Std Dev 0.8698
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

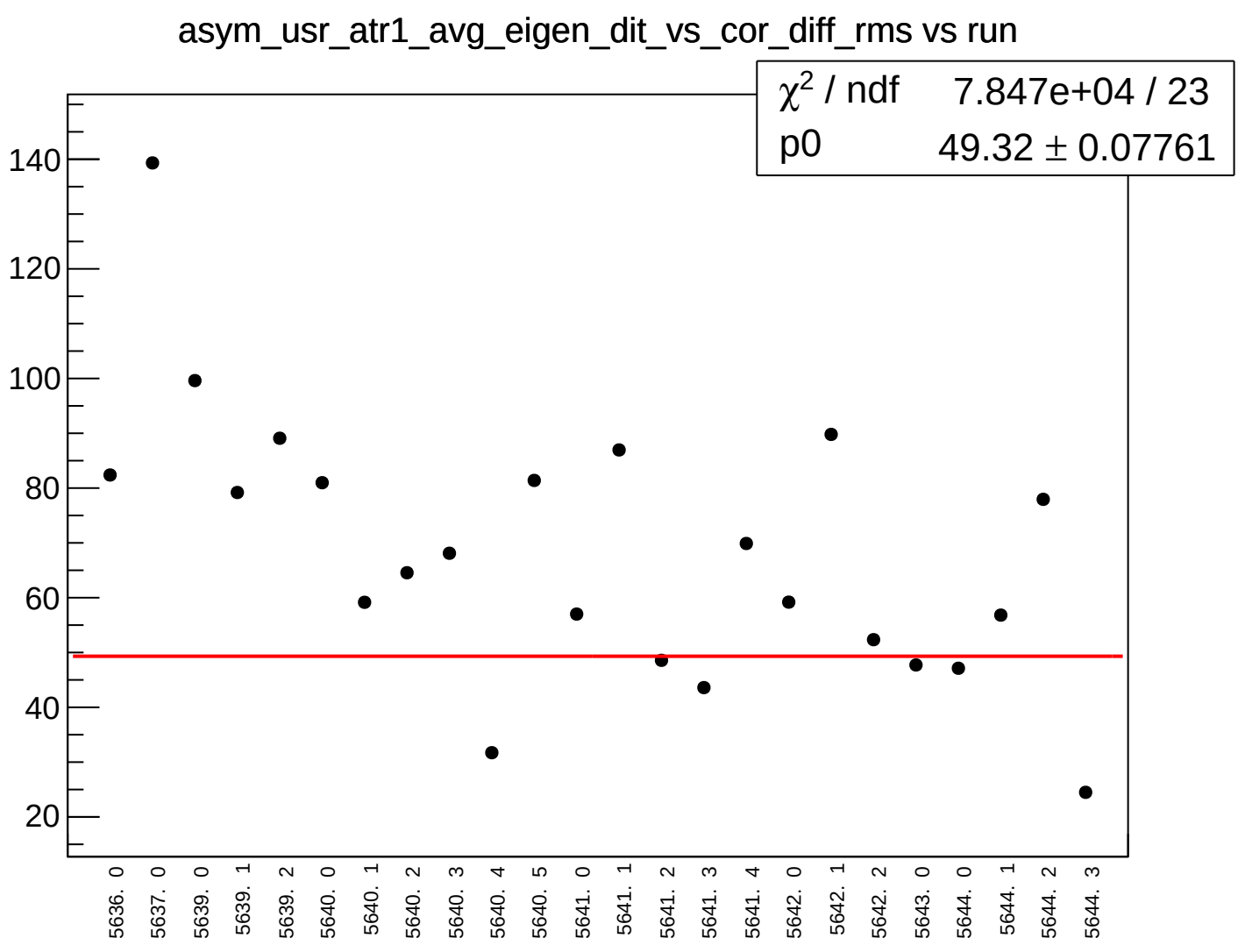

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1444 / 23
p0 0.003554 ± 5.126e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

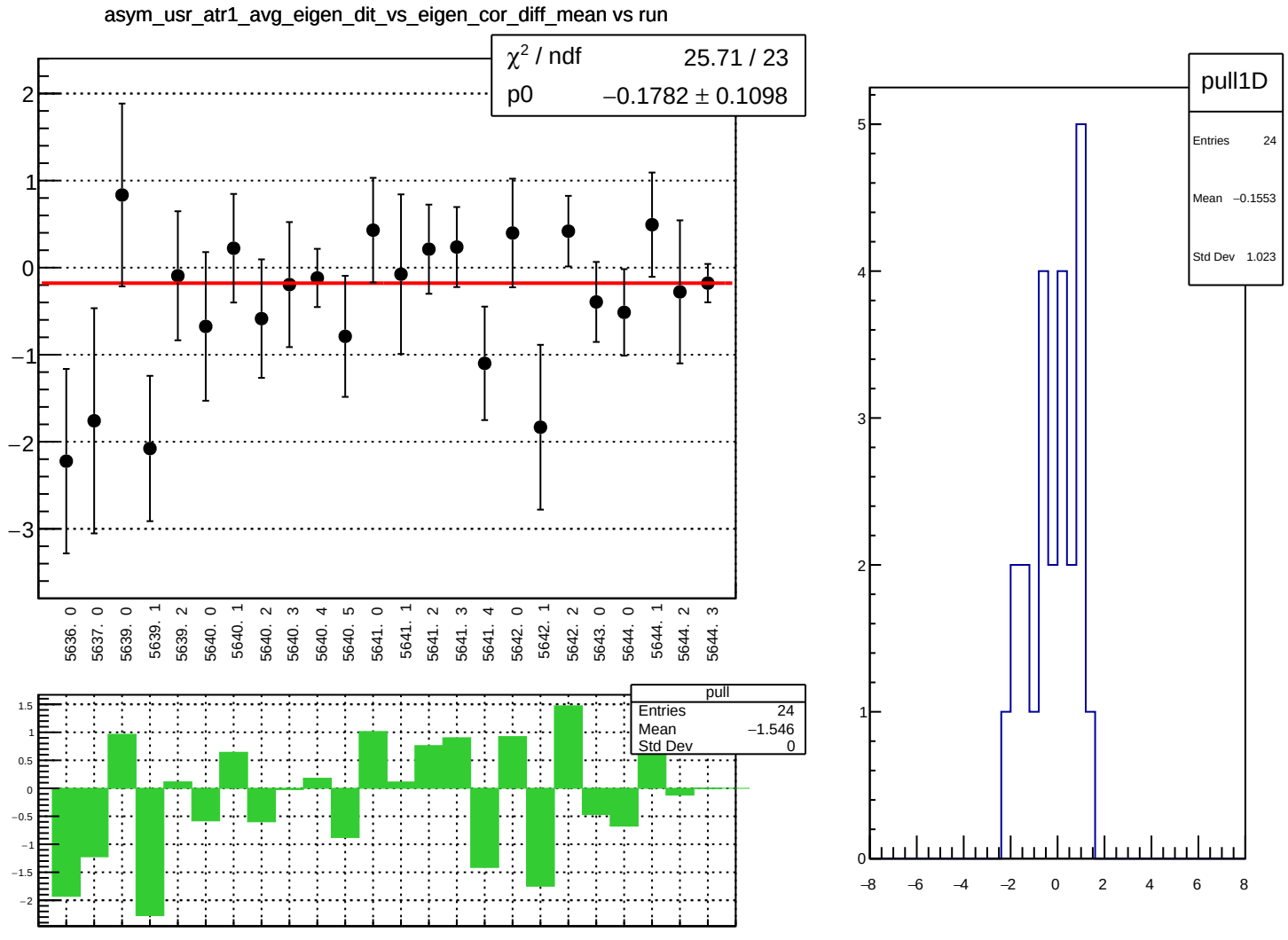
asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run

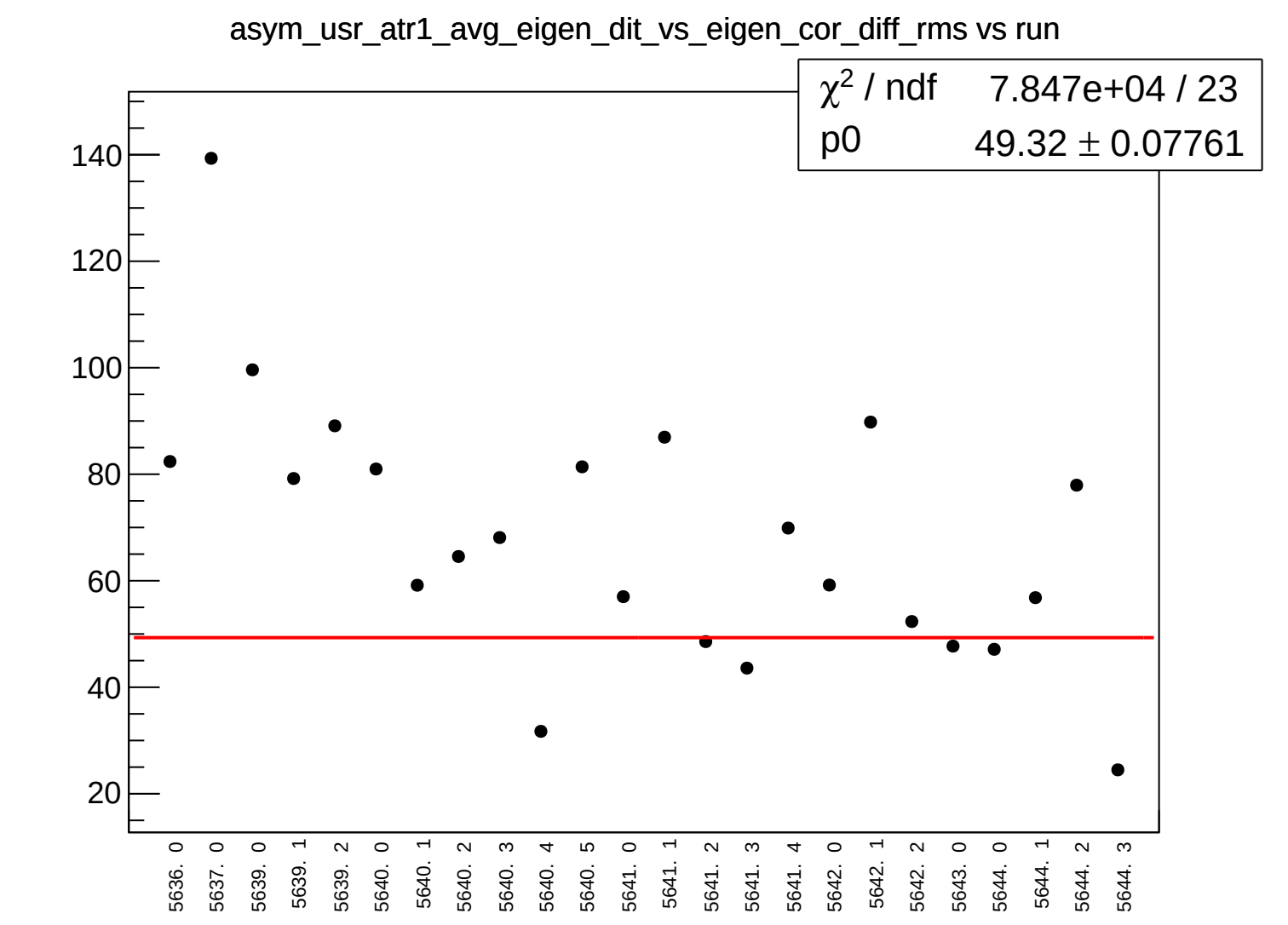


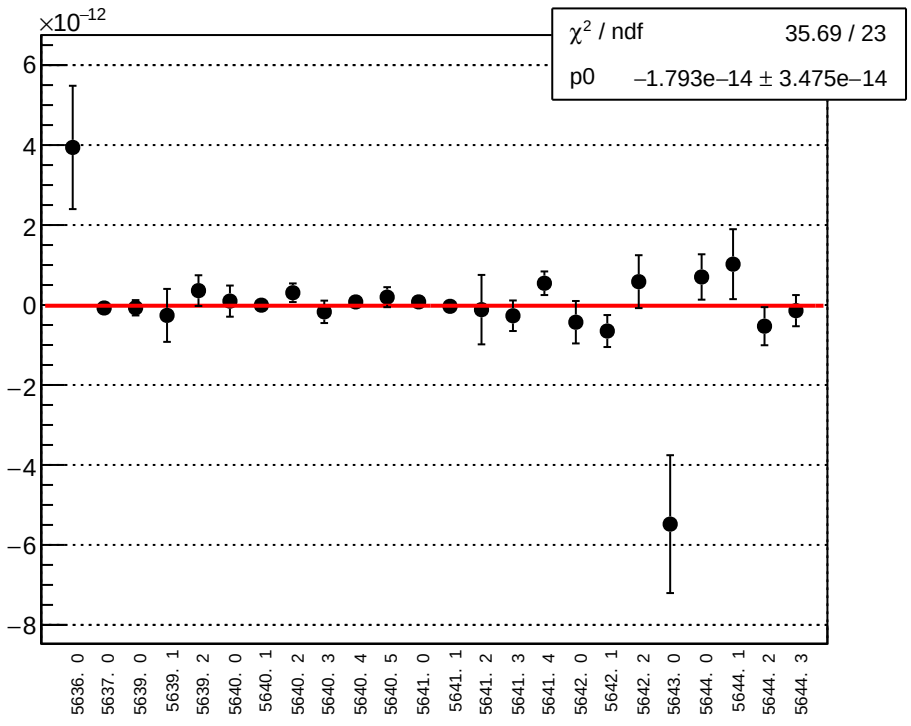


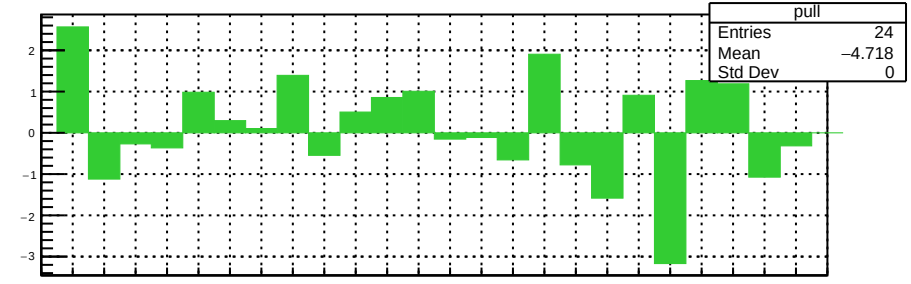


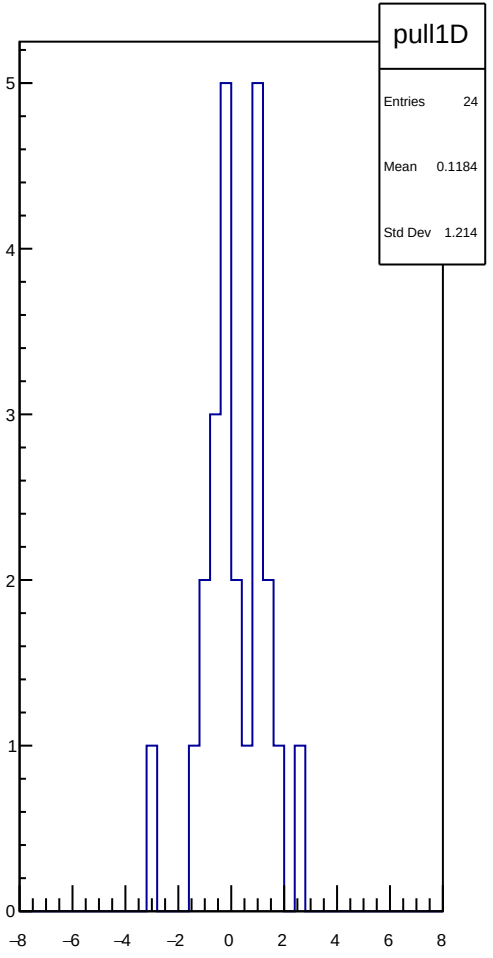

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.847e+04 / 23
p0 49.32 ± 0.07761
140
120
100
80
60
40
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

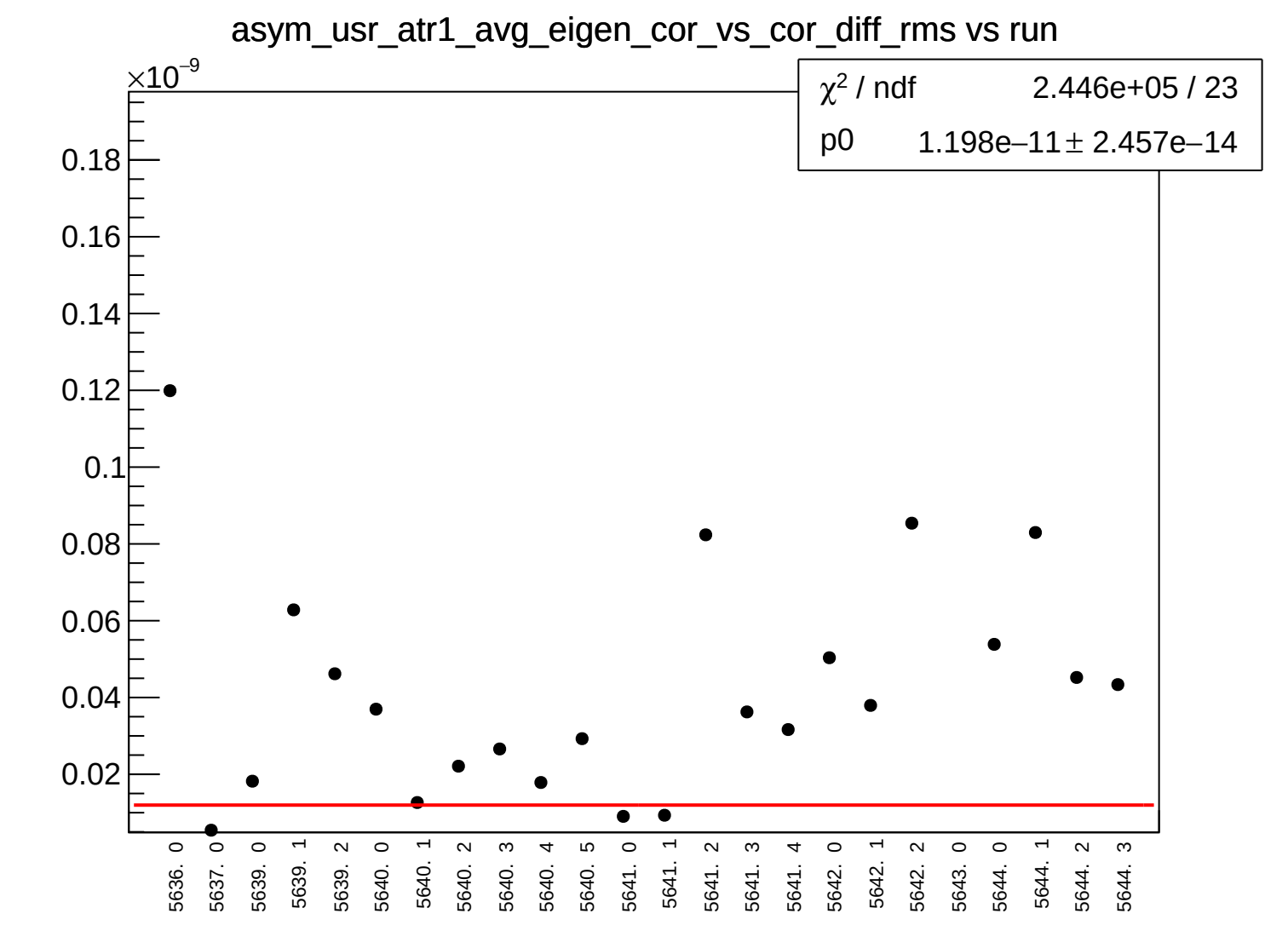

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.71 / 23
p0 −0.1782 ± 0.1098
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −1.546
Std Dev 0
pull1D
Entries 24
Mean −0.1553
Std Dev 1.023

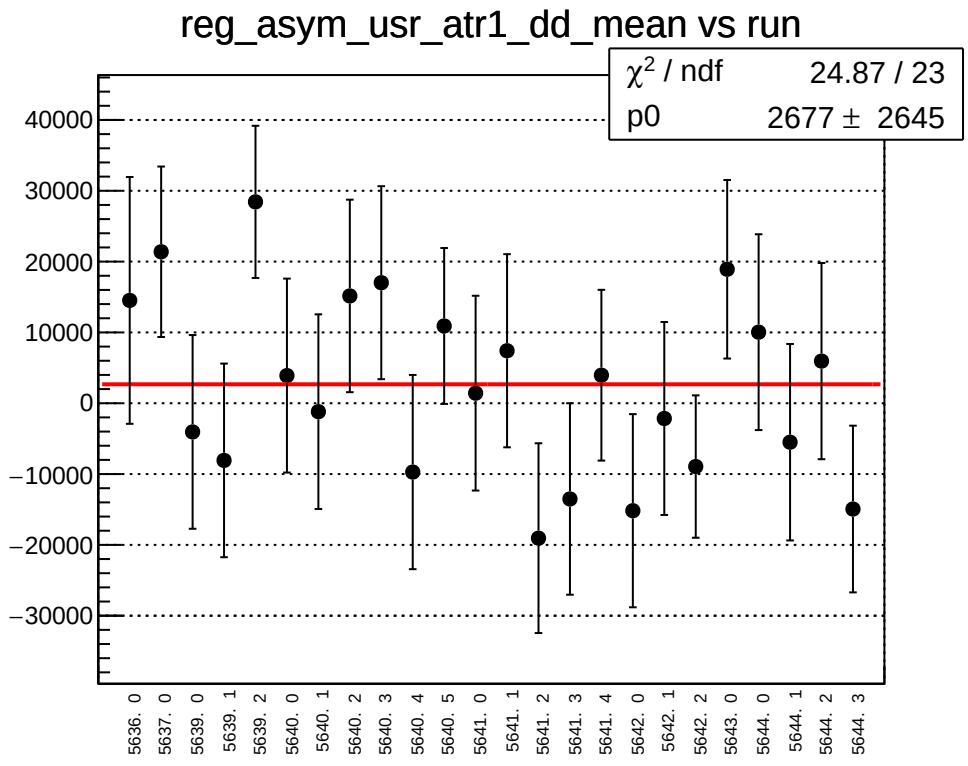

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ2 / ndf 7.847e+04 / 23
p0 49.32 ± 0.07761
140
120
100
80
60
40
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

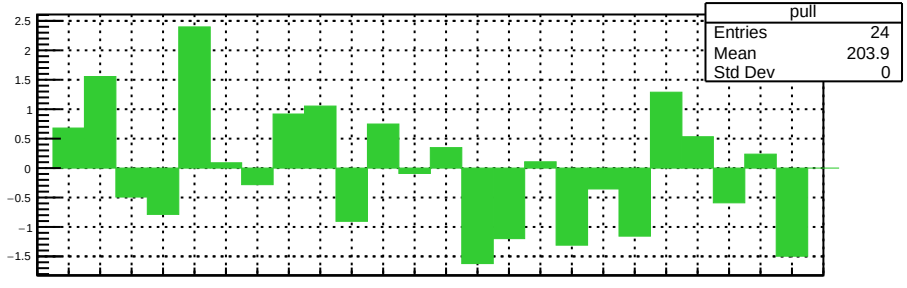

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 35.69 / 23
p0 −1.793e−14 ± 3.475e−14
6
4
2
0
−2
−4
−6
−8
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

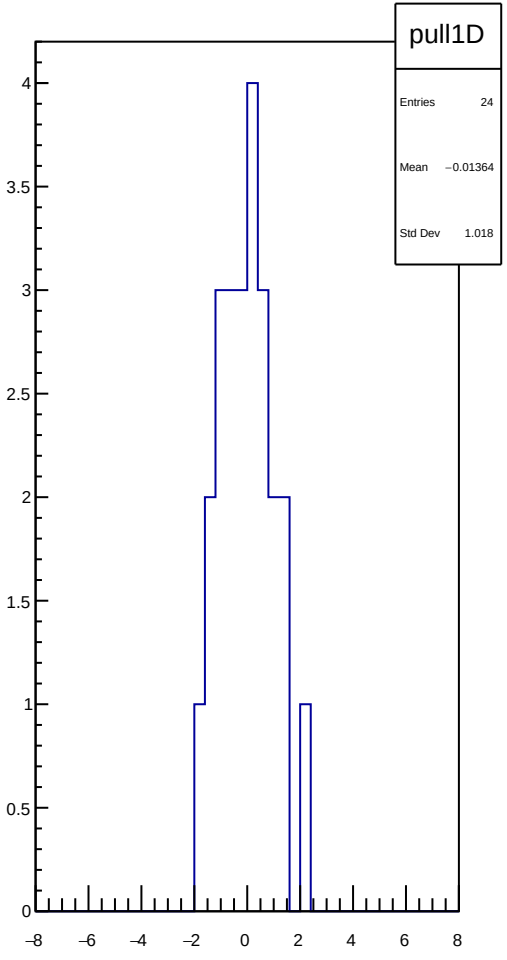

pull
Entries 24
Mean −4.718
Std Dev 0
2
1
0
−1
−2
−3

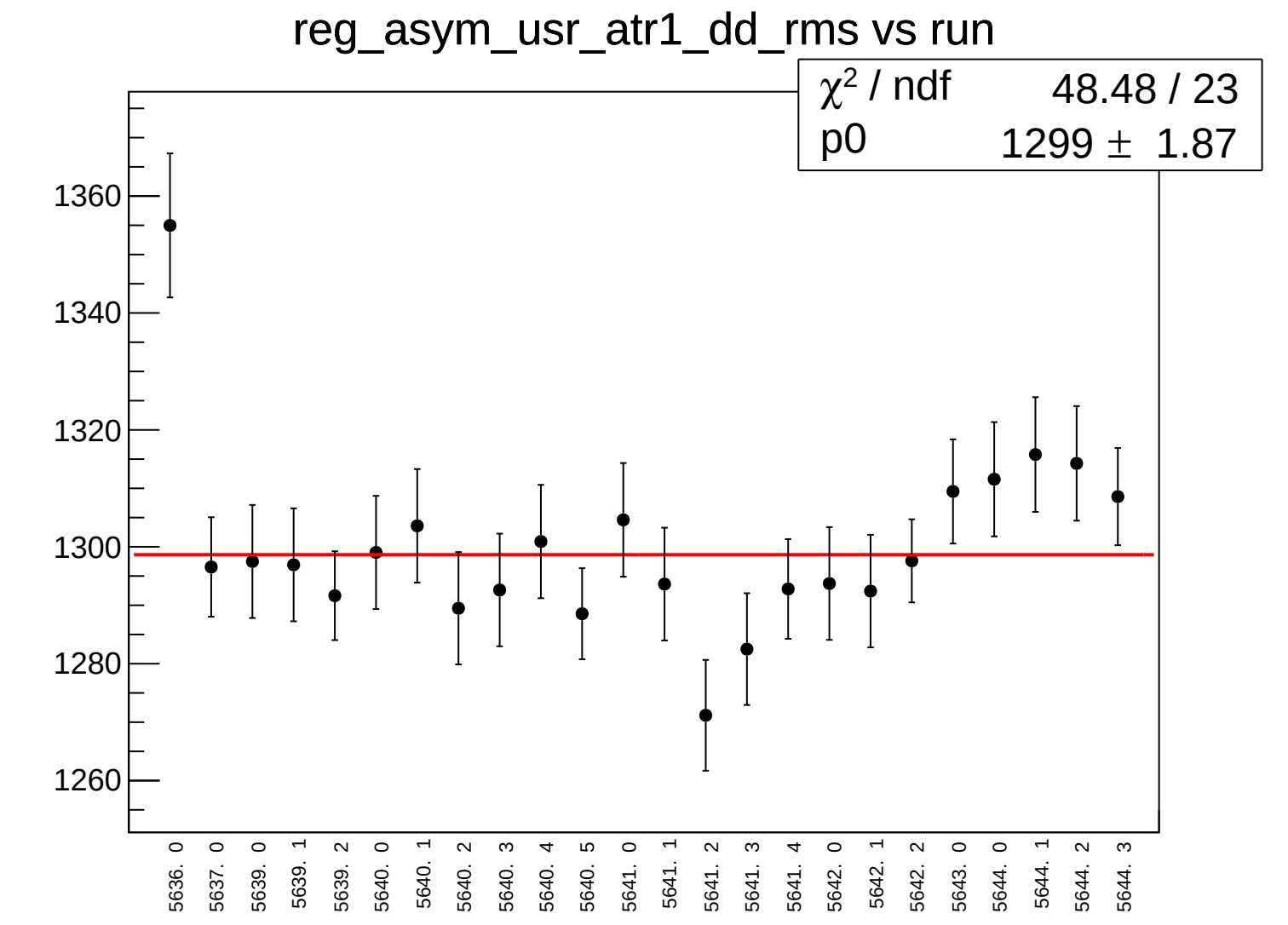

pull1D
Entries 24
Mean 0.1184
Std Dev 1.214
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

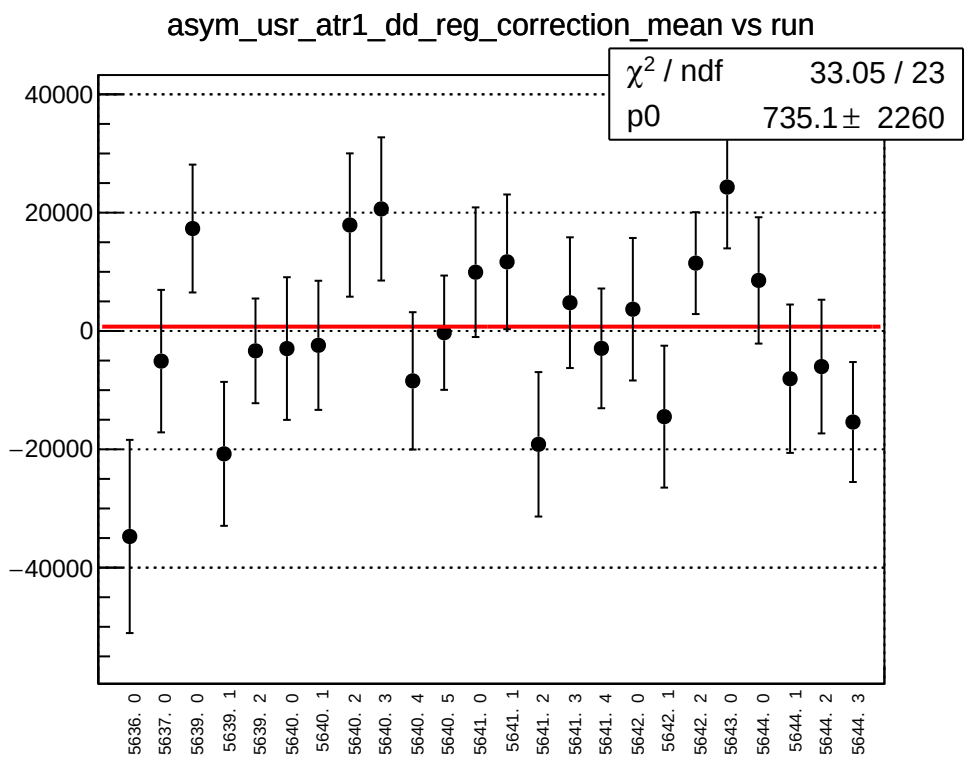

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.446e+05 / 23
p0 1.198e−11 ± 2.457e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

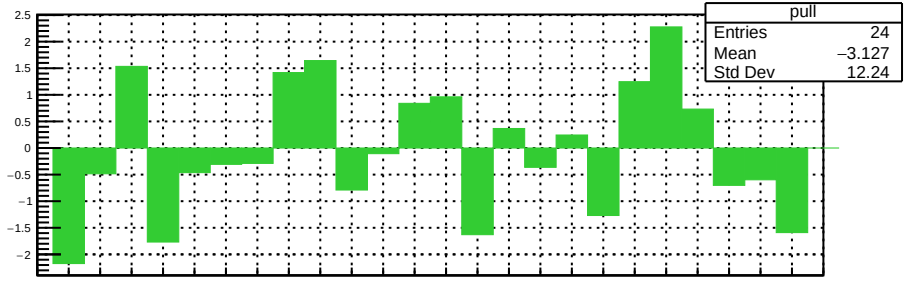

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 24.87 / 23
p0 2677 ± 2645
40000
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

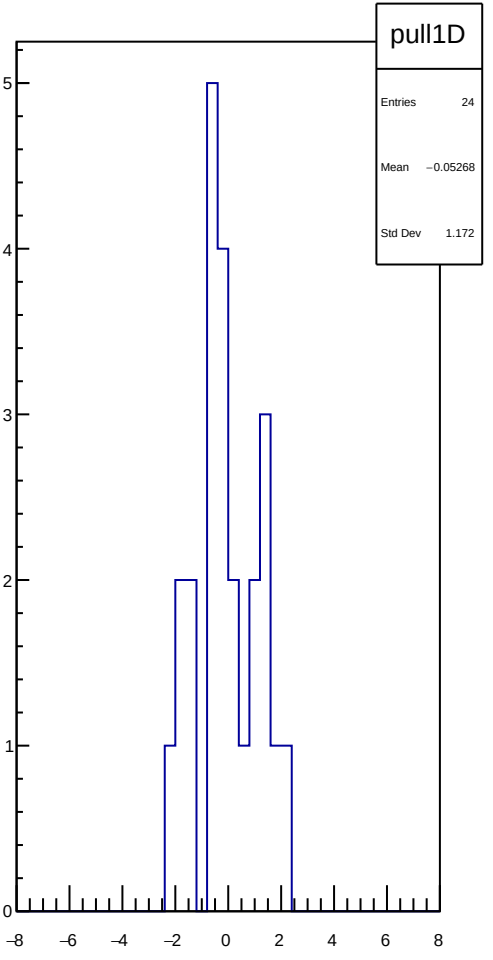

pull
Entries 24
Mean 203.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

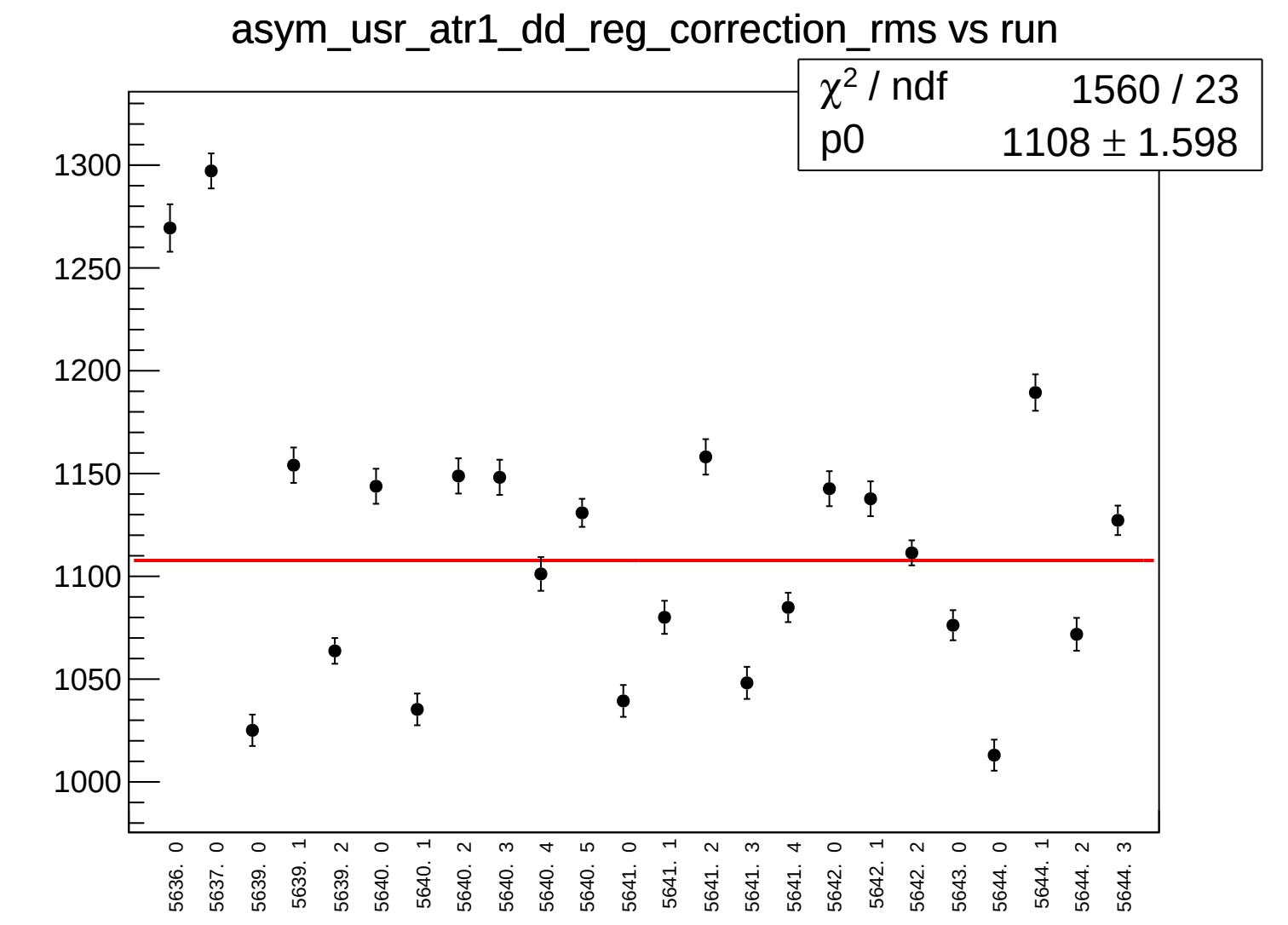

pull1D
Entries 24
Mean −0.01364
Std Dev 1.018
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

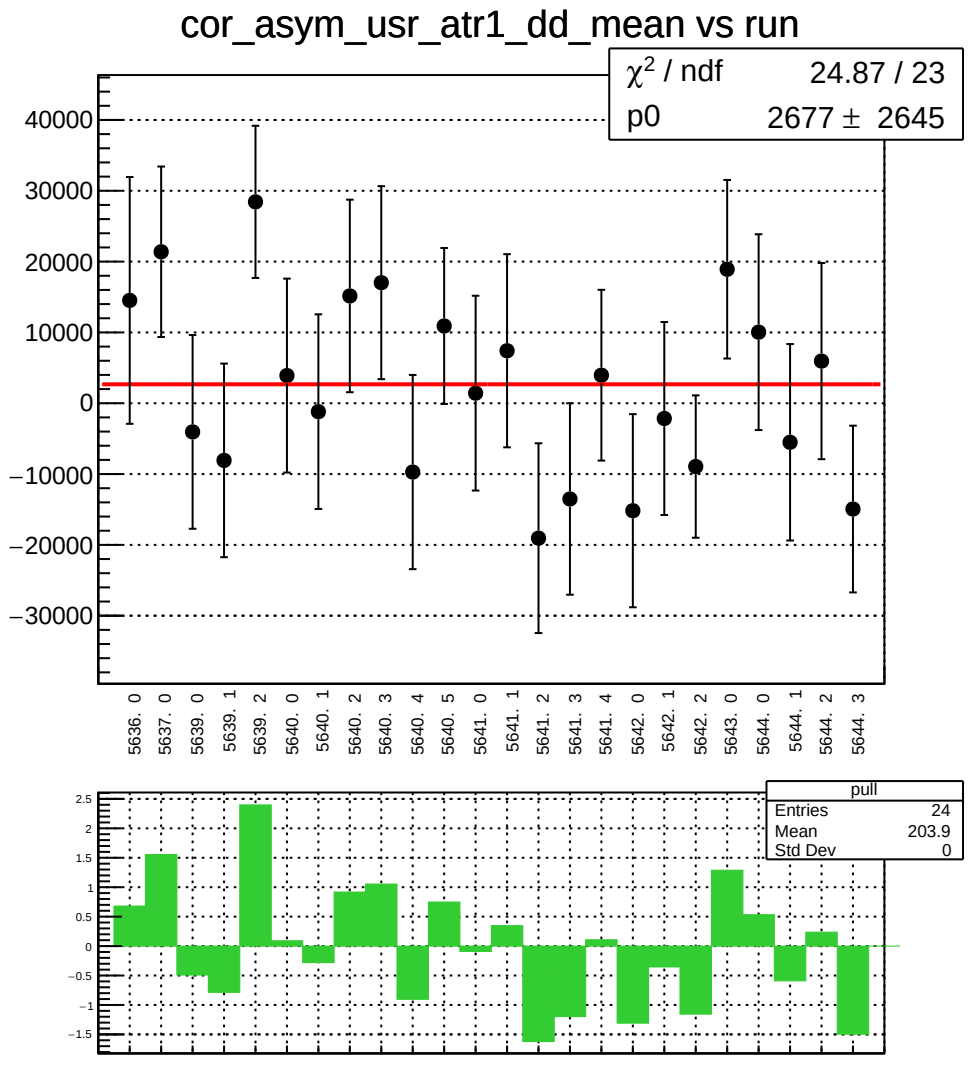

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 48.48 / 23
p0 1299 ± 1.87
1360
1340
1320
1300
1280
1260
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

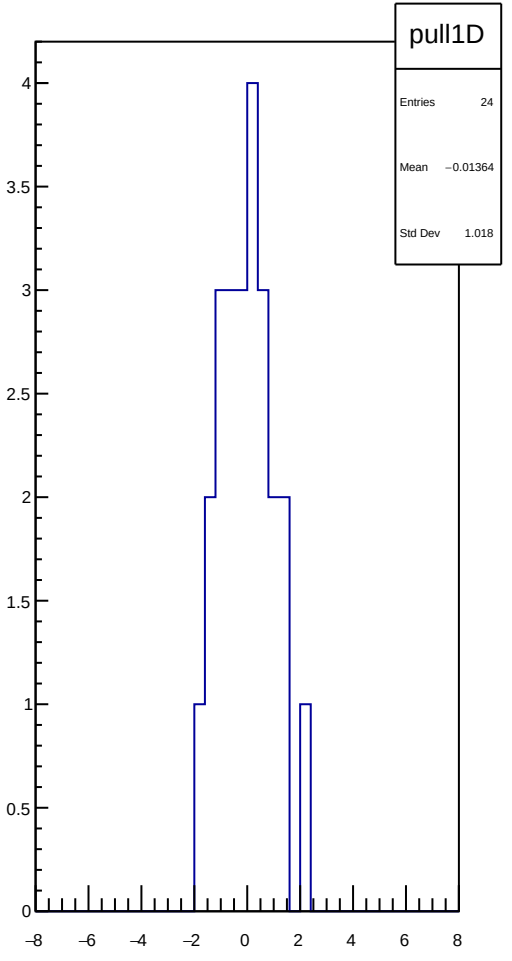

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 33.05 / 23
p0 735.1 ± 2260
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

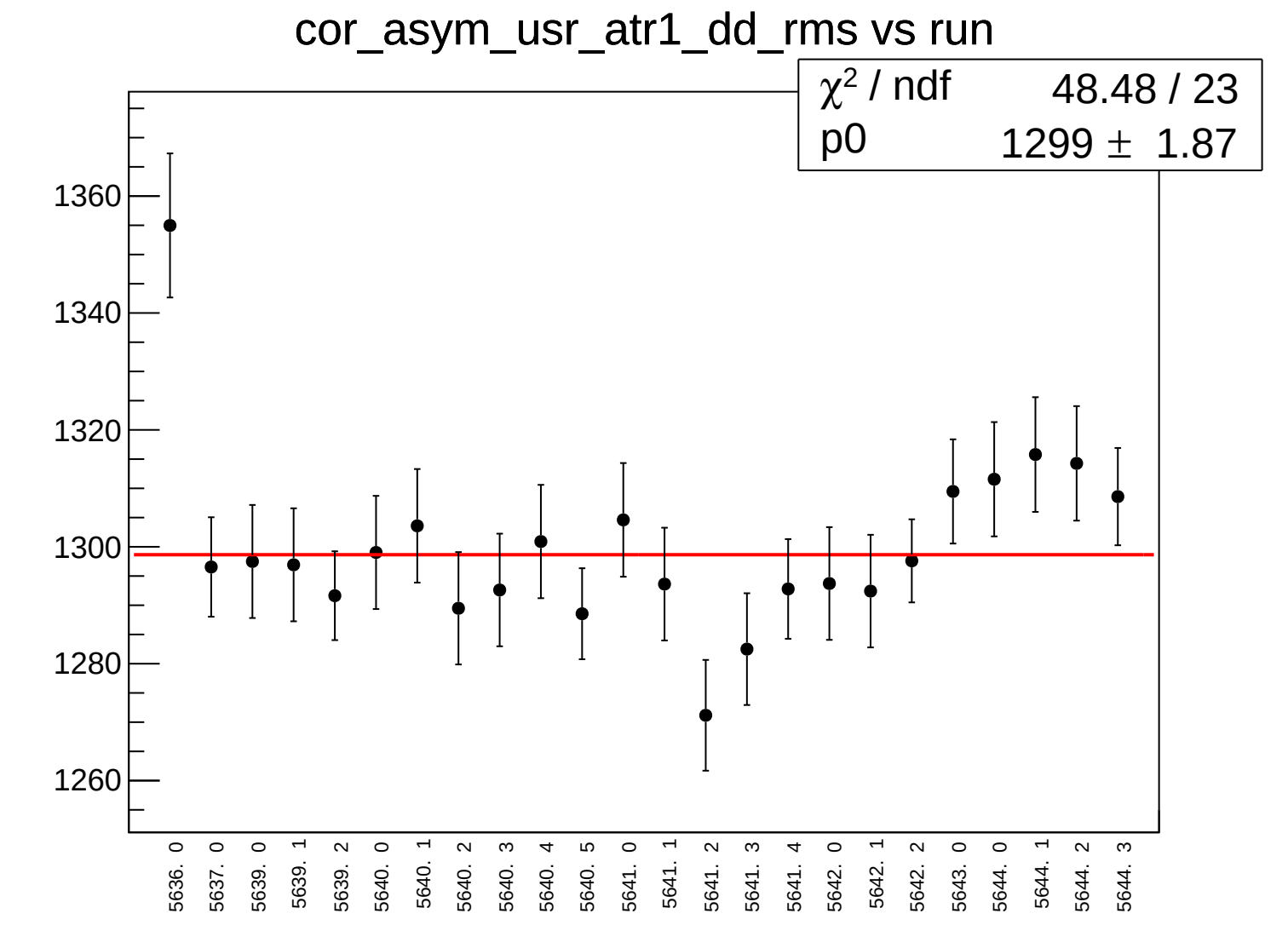

pull
Entries 24
Mean −3.127
Std Dev 12.24
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

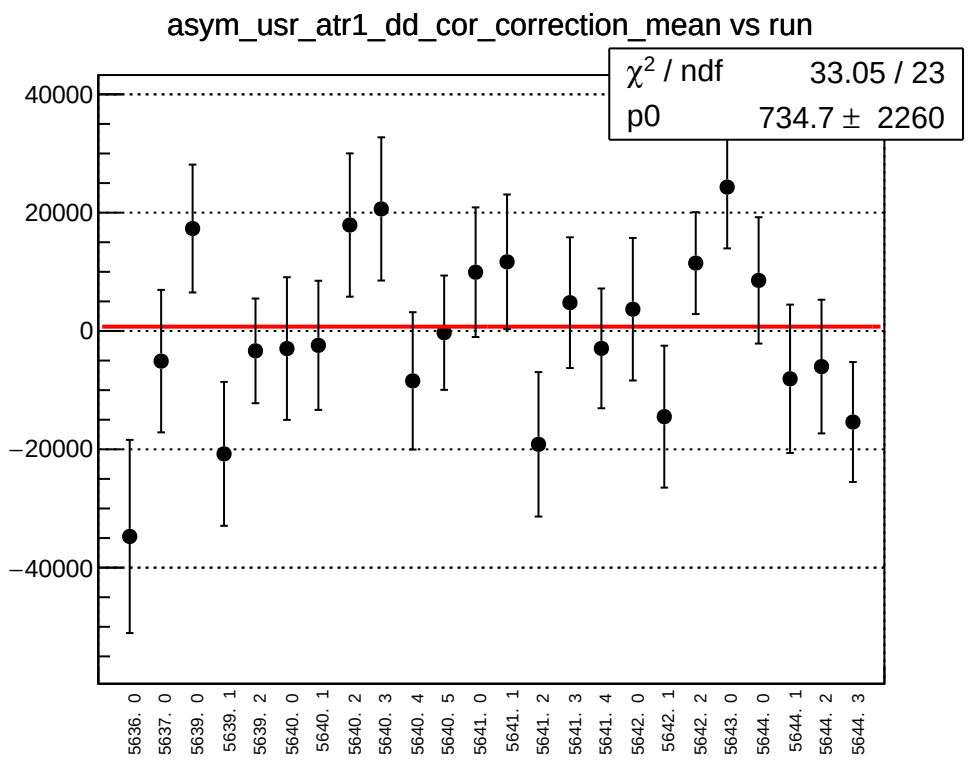

pull1D
Entries 24
Mean −0.05268
Std Dev 1.172
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

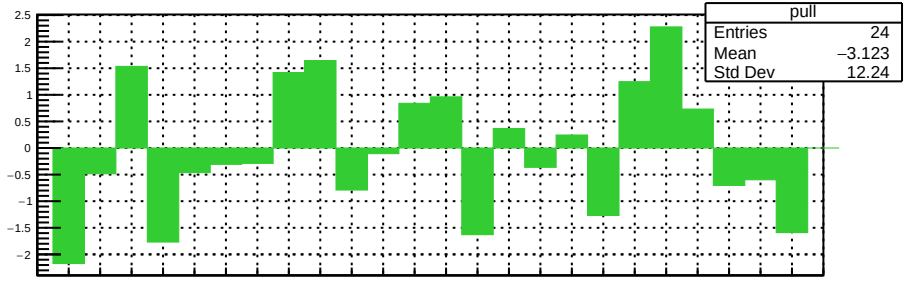

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 1560 / 23
p0 1108 ± 1.598
1300
1250
1200
1150
1100
1050
1000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

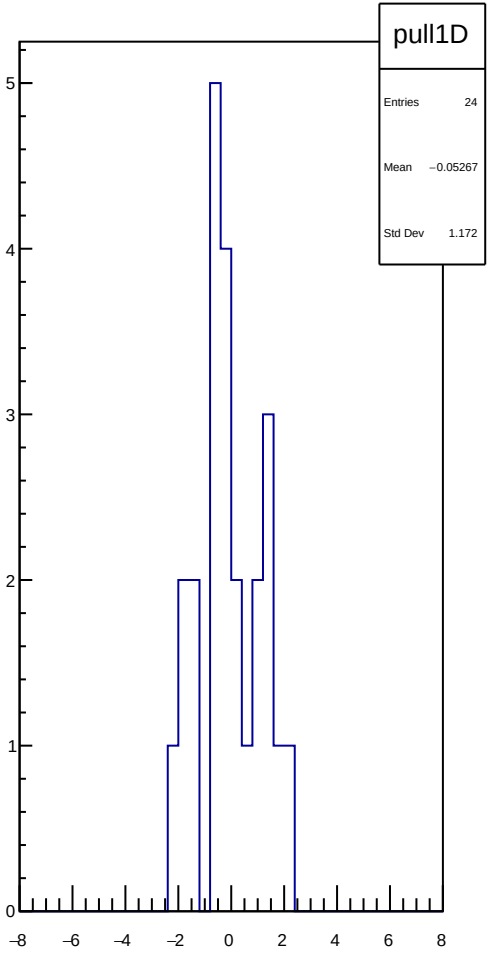

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 24.87 / 23
p0 2677 ± 2645
40000
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 203.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

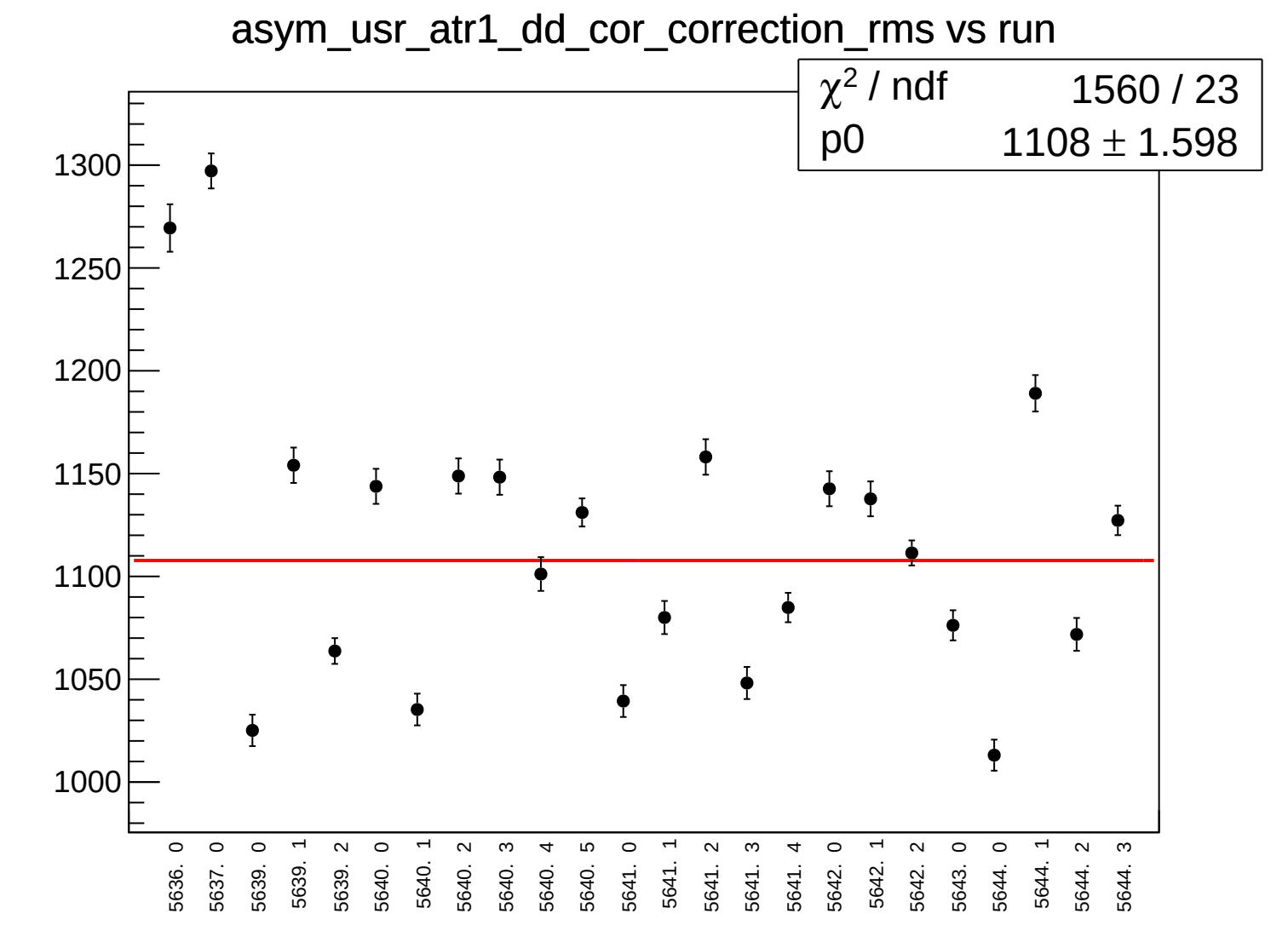

pull1D
Entries 24
Mean −0.01364
Std Dev 1.018
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

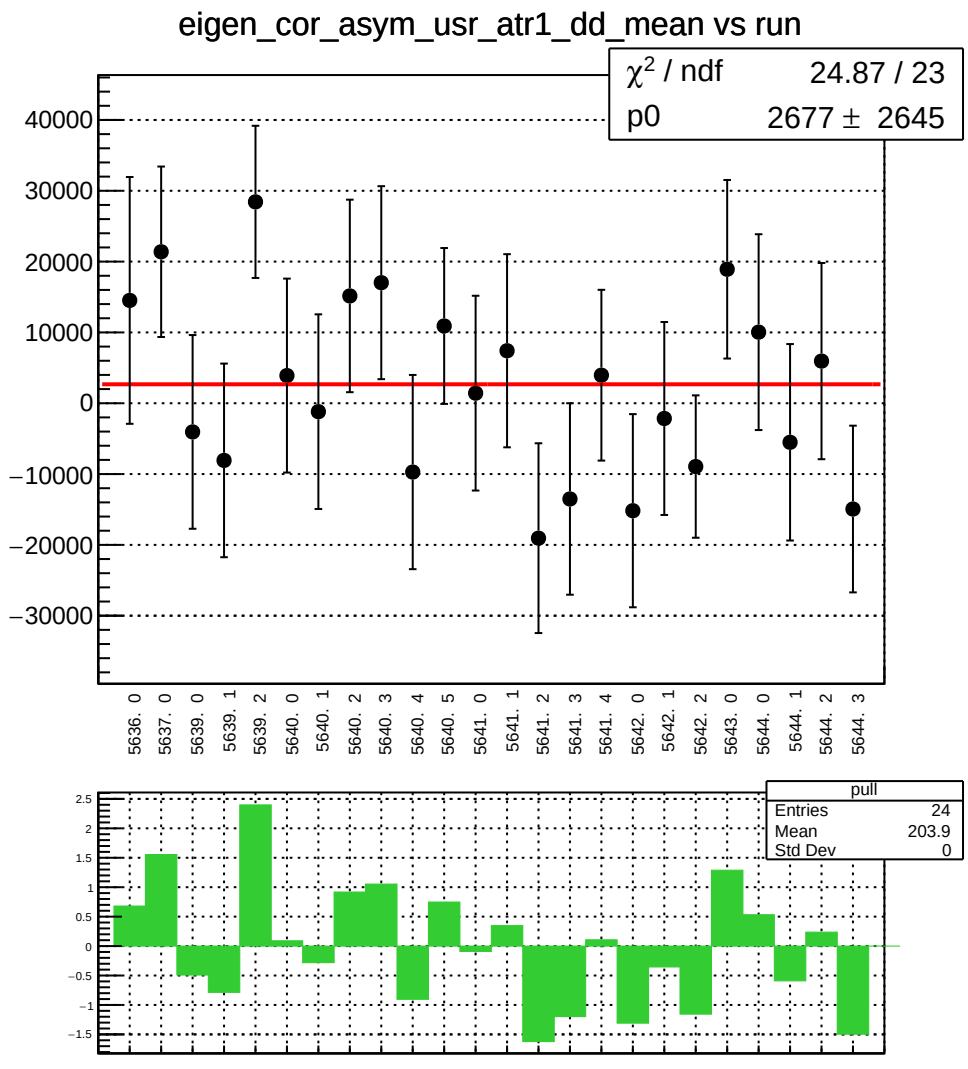

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 48.48 / 23
p0 1299 ± 1.87
1360
1340
1320
1300
1280
1260
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

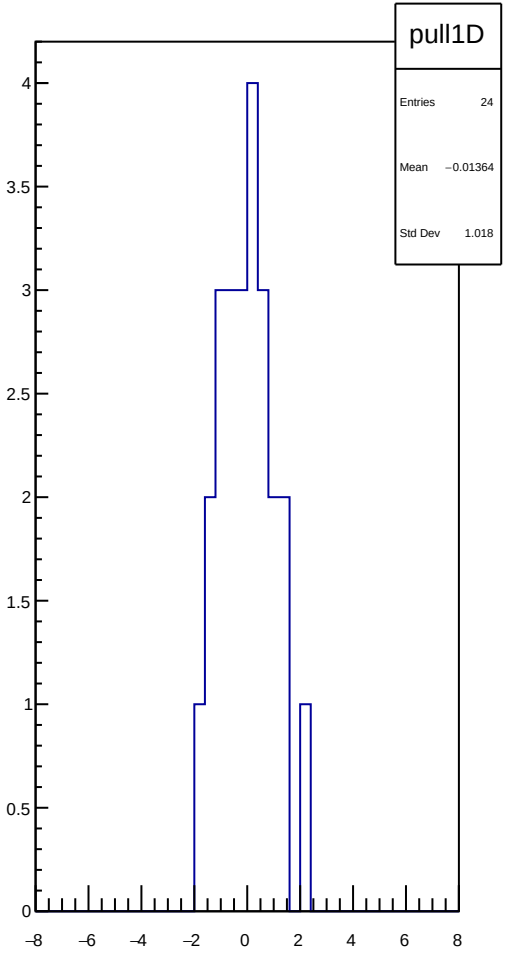

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 33.05 / 23
p0 734.7 ± 2260
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

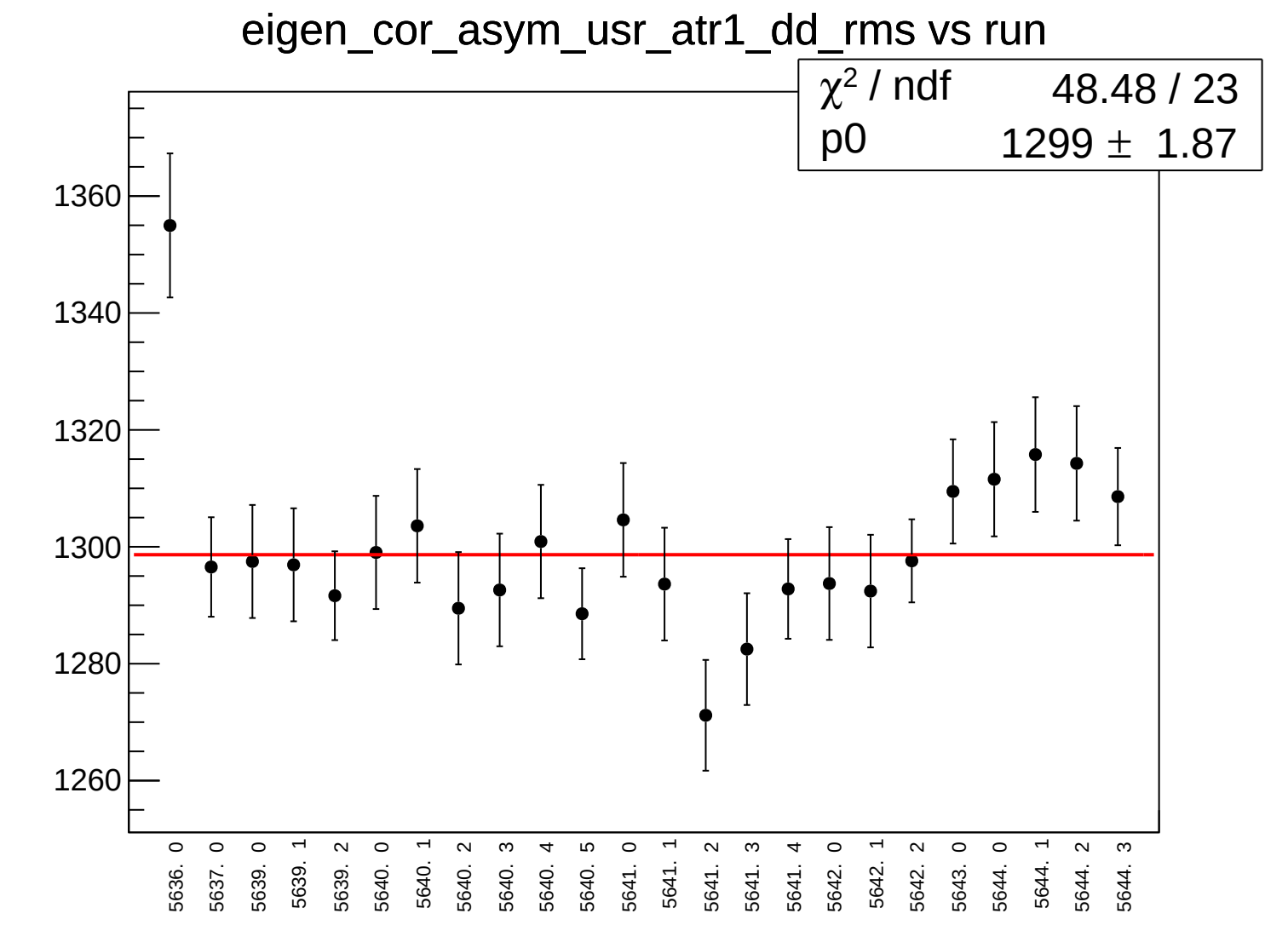

pull
Entries 24
Mean −3.123
Std Dev 12.24
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

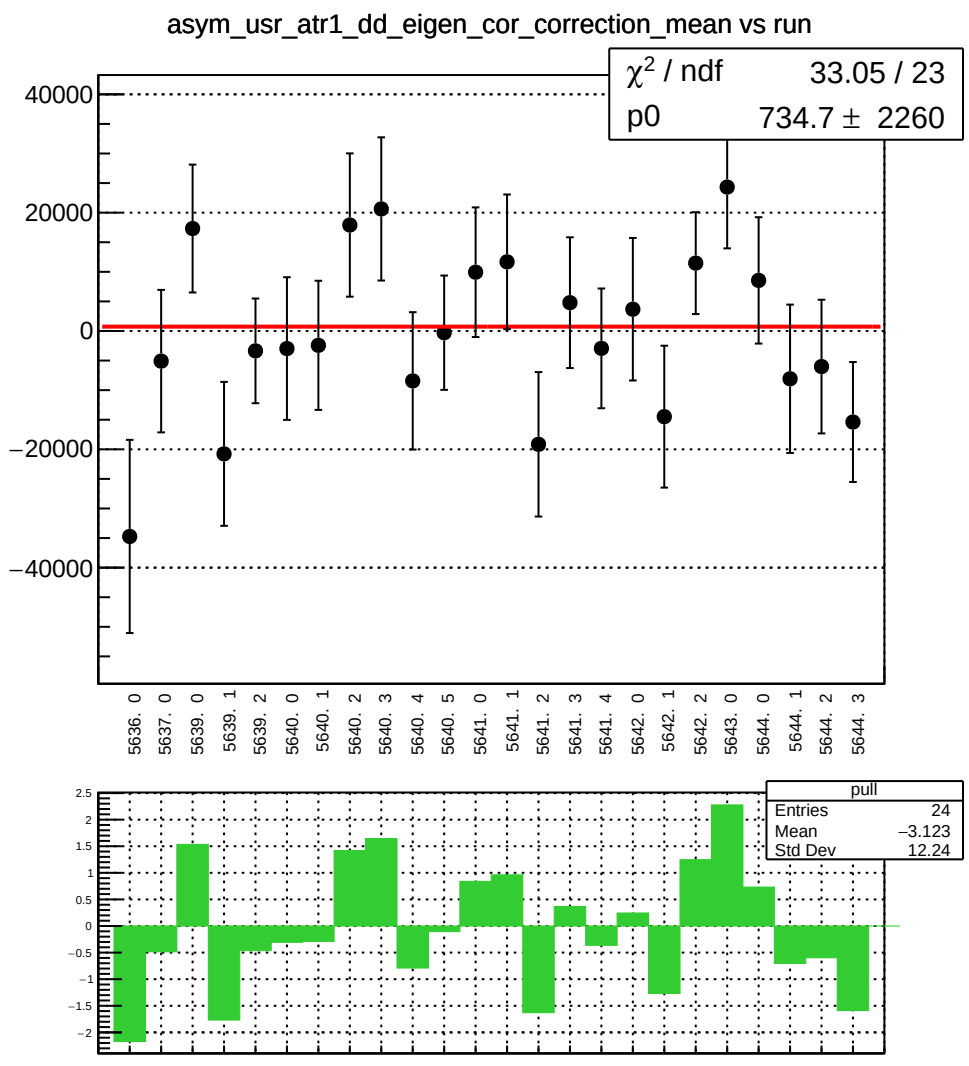

pull1D
Entries 24
Mean −0.05267
Std Dev 1.172
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

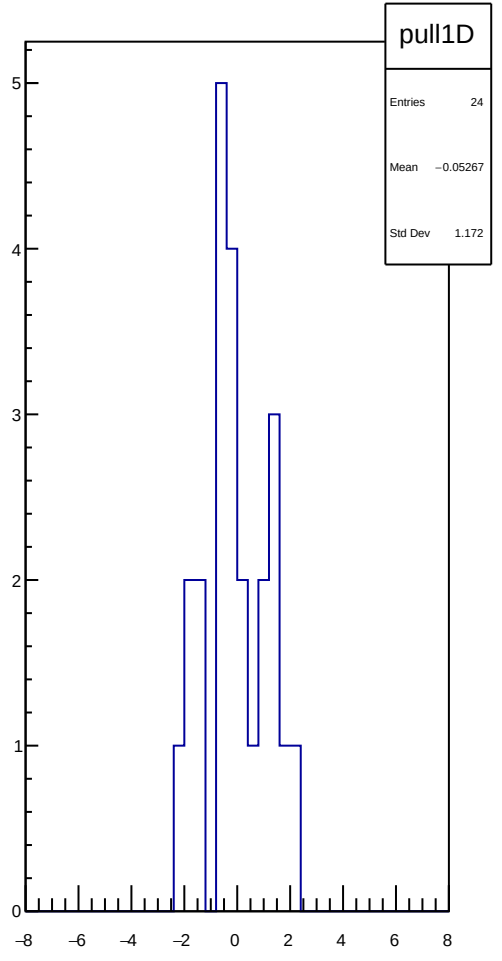

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 1560 / 23
p0 1108 ± 1.598
1300
1250
1200
1150
1100
1050
1000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

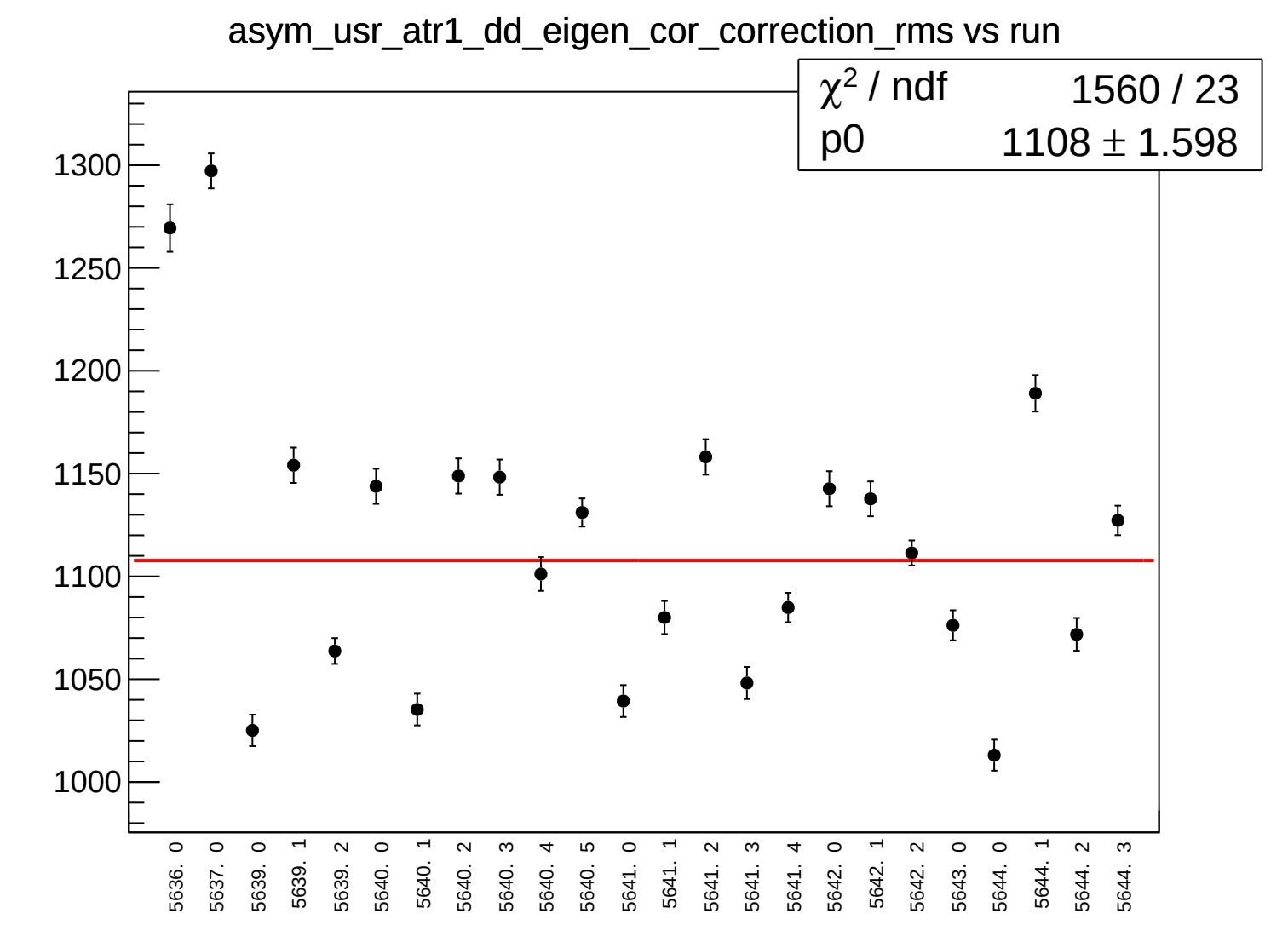

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 24.87 / 23
p0 2677 ± 2645
40000
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 203.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

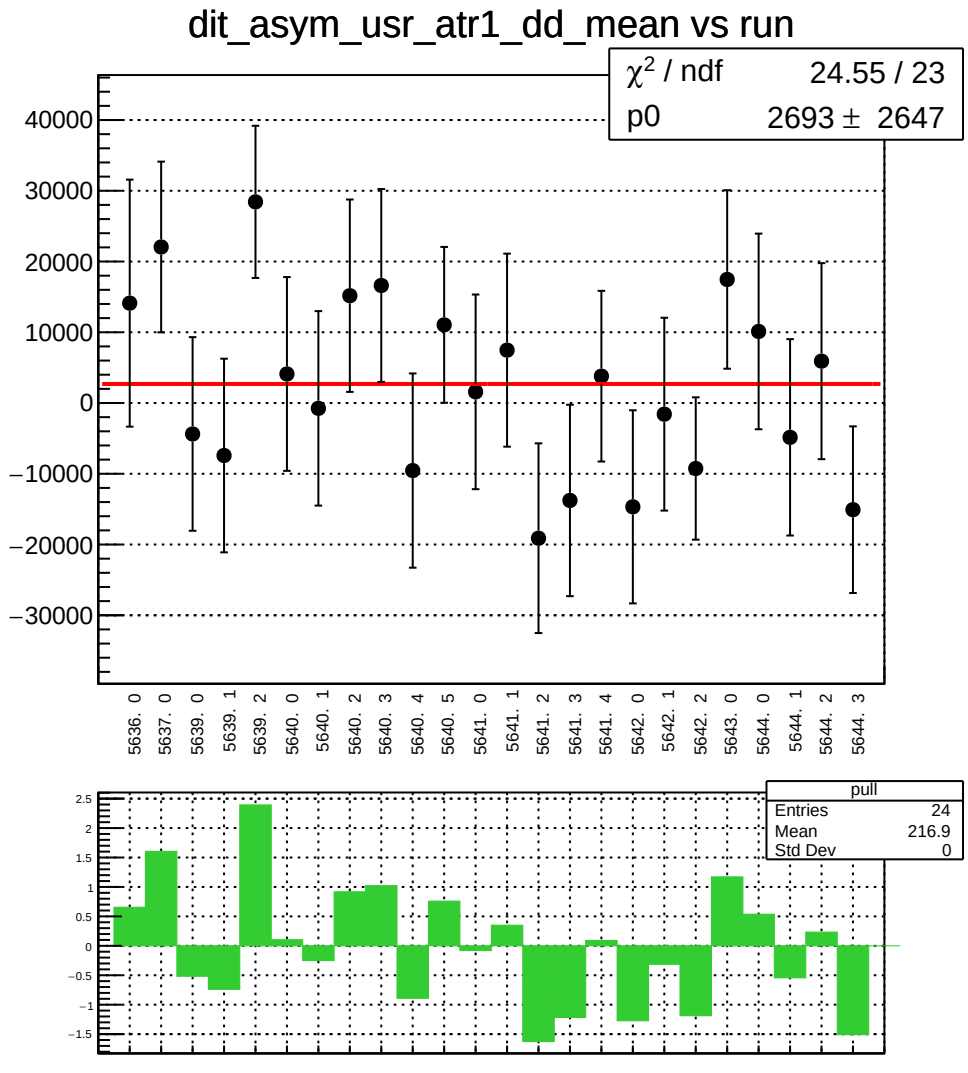

pull1D
Entries 24
Mean −0.01364
Std Dev 1.018
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

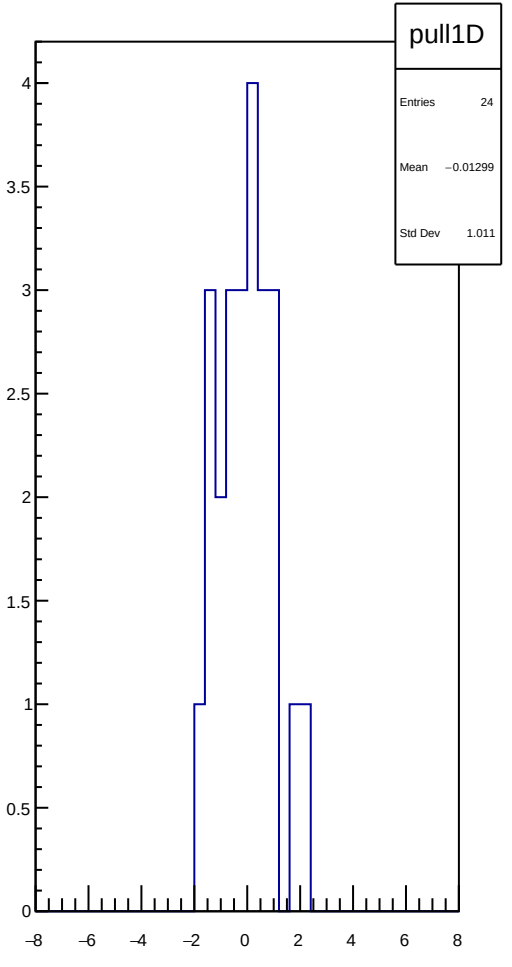

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 48.48 / 23
p0 1299 ± 1.87
1360
1340
1320
1300
1280
1260
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

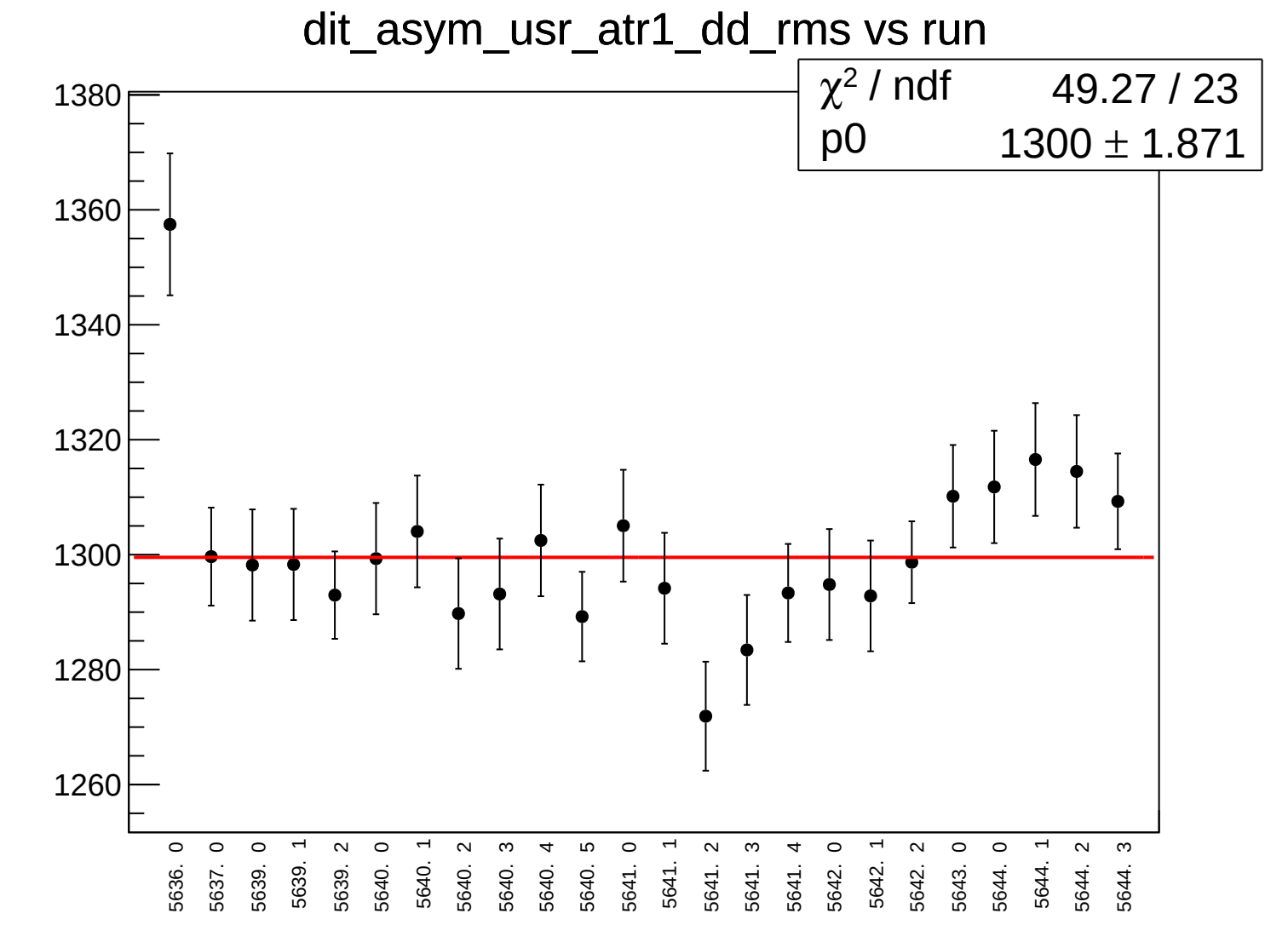

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 33.05 / 23
p0 734.7 ± 2260
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −3.123
Std Dev 12.24
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

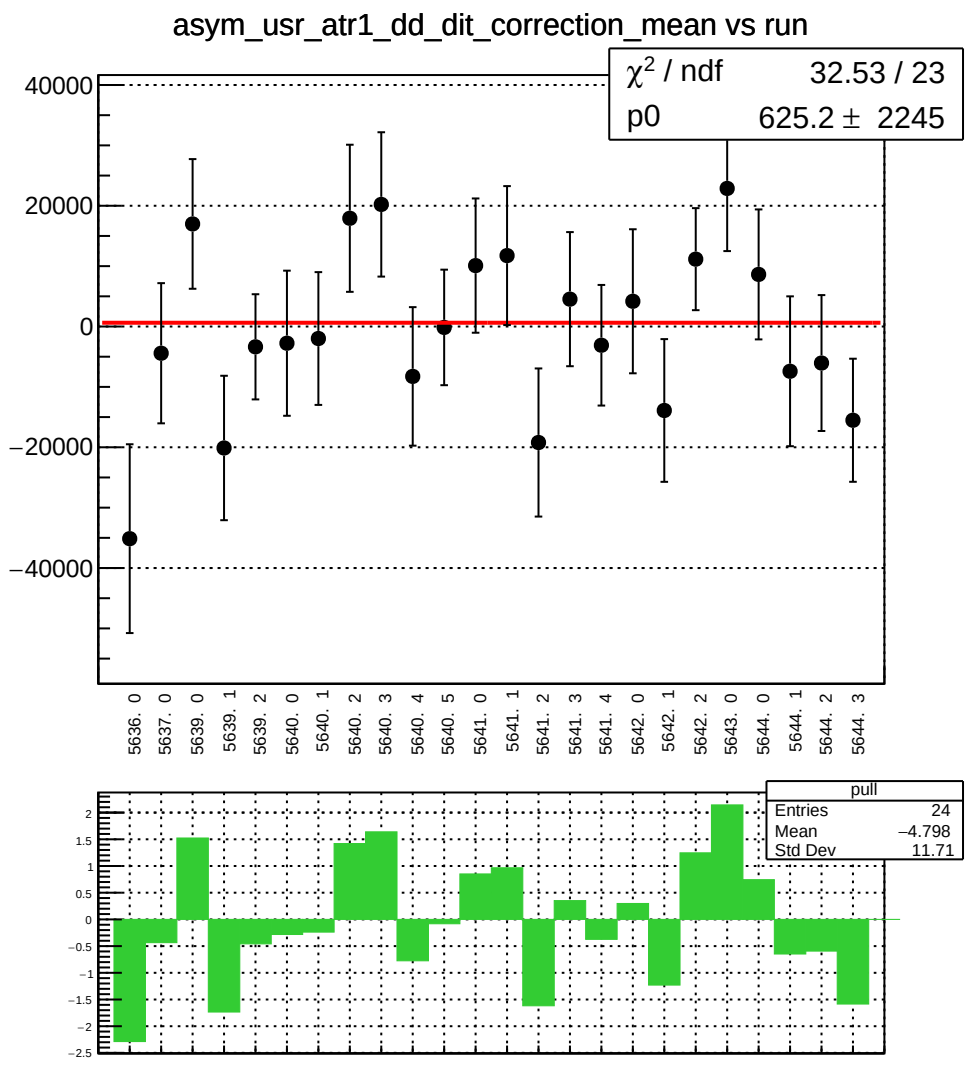

pull1D
Entries 24
Mean −0.05267
Std Dev 1.172
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

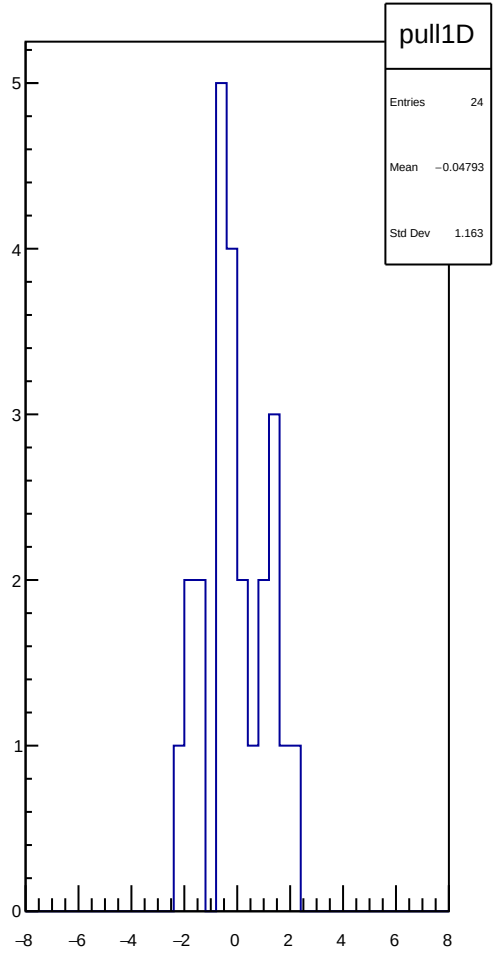

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1560 / 23
p0 1108 ± 1.598
1300
1250
1200
1150
1100
1050
1000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

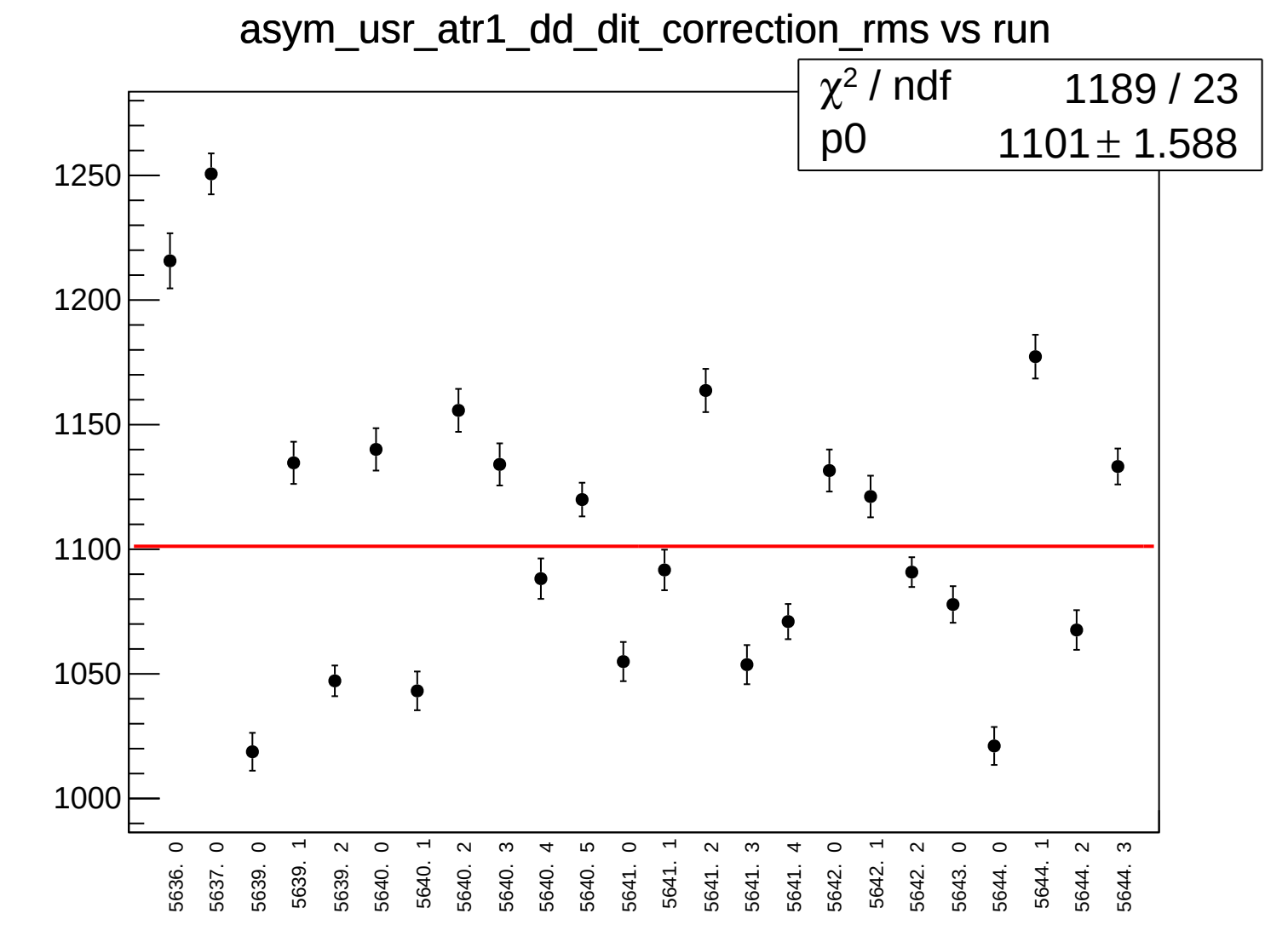

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 24.55 / 23
p0 2693 ± 2647
40000
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 216.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

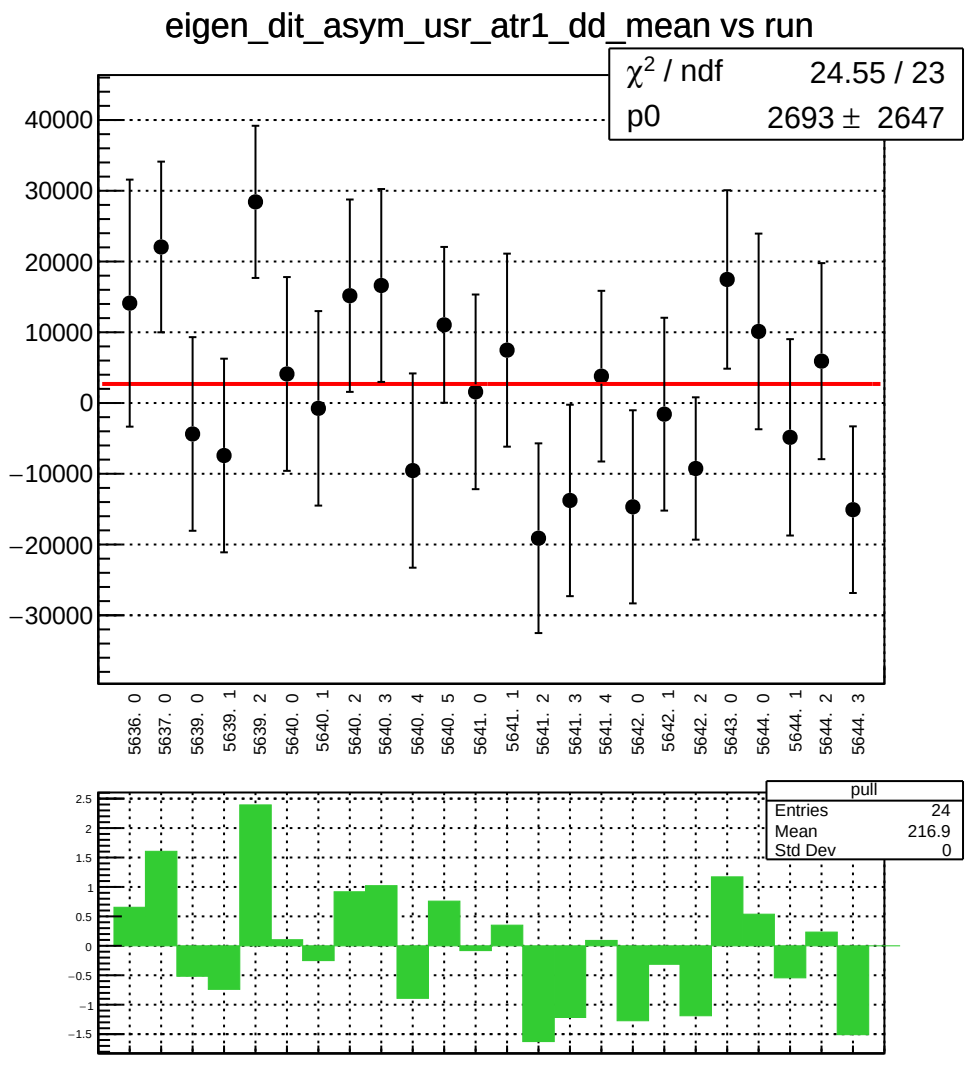

pull1D
Entries 24
Mean −0.01299
Std Dev 1.011
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

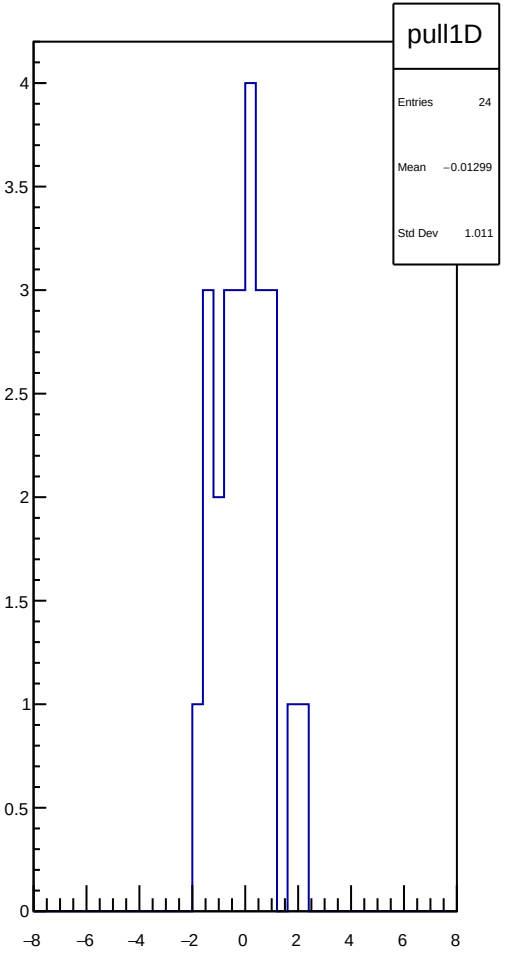

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 49.27 / 23
p0 1300 ± 1.871
1380
1360
1340
1320
1300
1280
1260
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

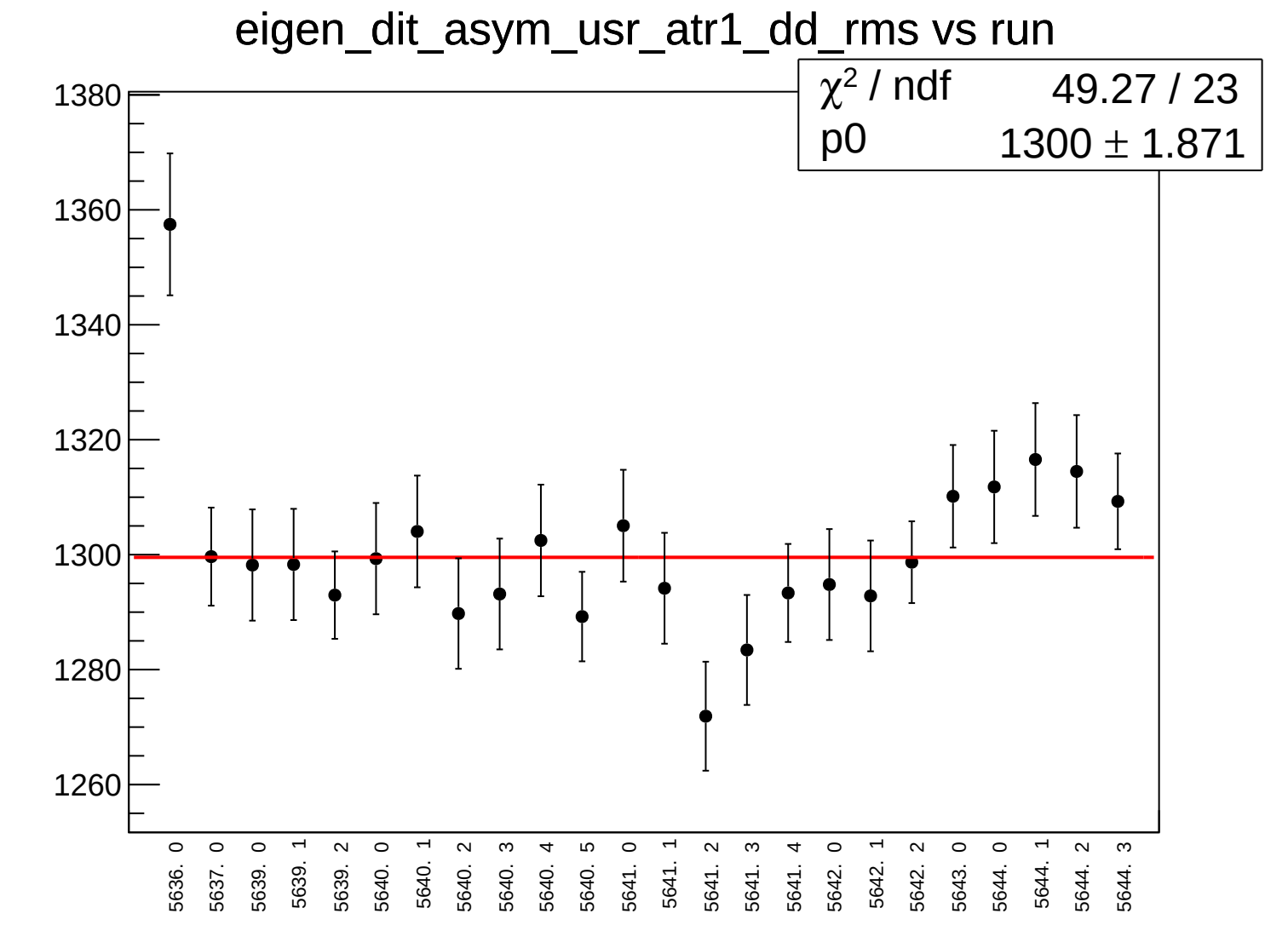

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 32.53 / 23
p0 625.2 ± 2245
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −4.798
Std Dev 11.71
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

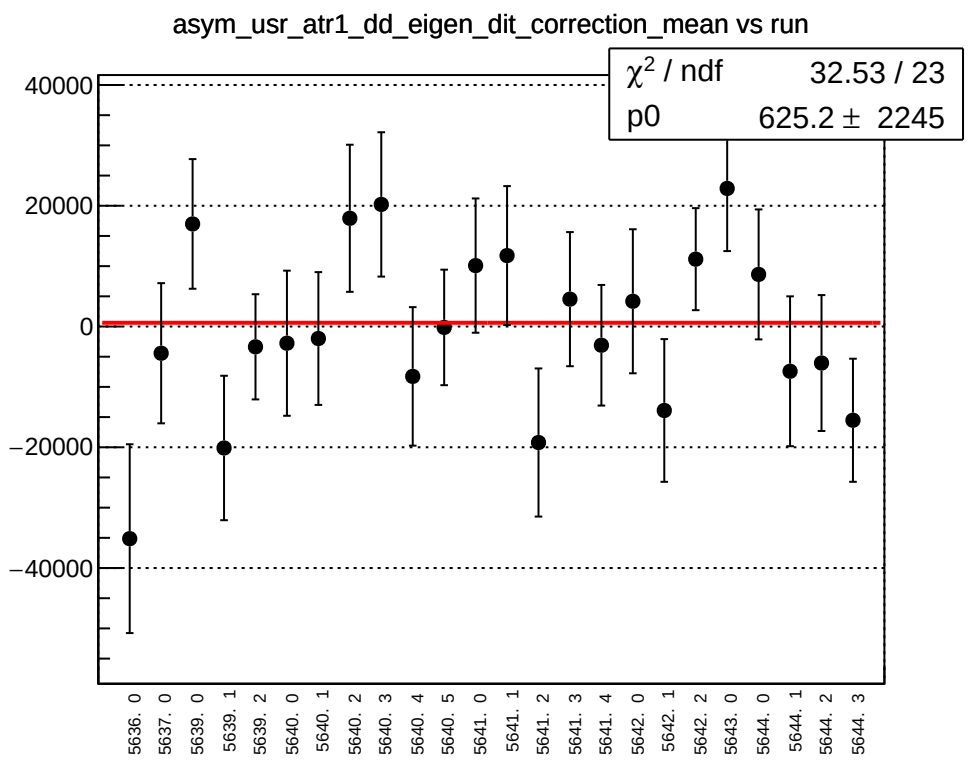

pull1D
Entries 24
Mean −0.04793
Std Dev 1.163
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

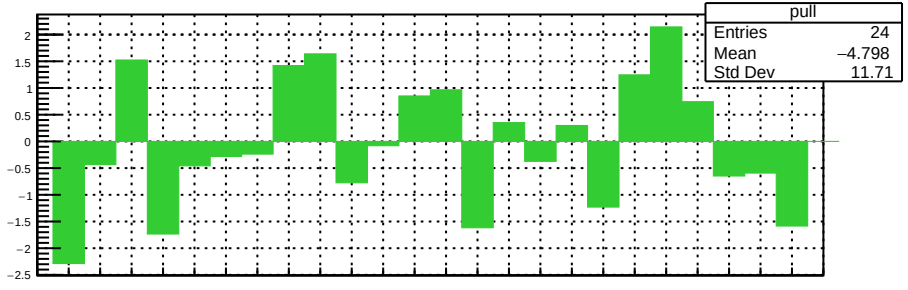

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 1189 / 23
p0 1101 ± 1.588
1250
1200
1150
1100
1050
1000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

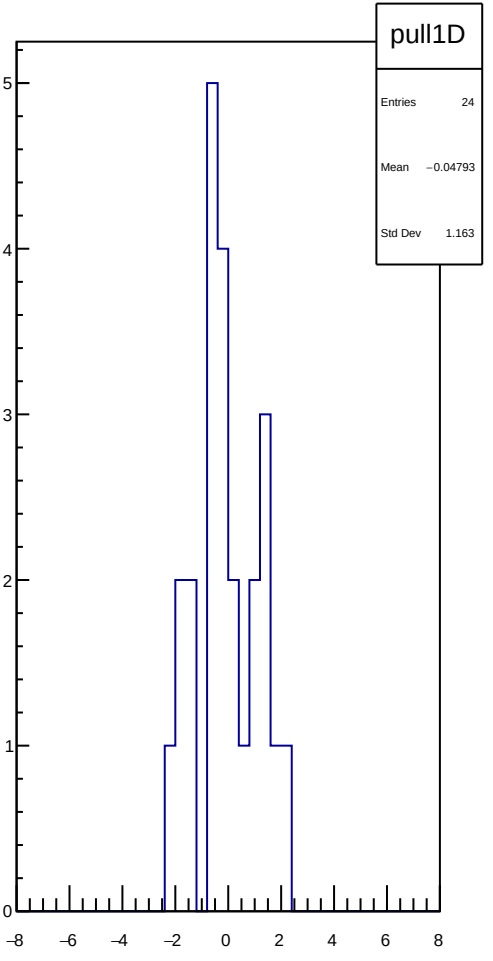

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 24.55 / 23
p0 2693 ± 2647
40000
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 216.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

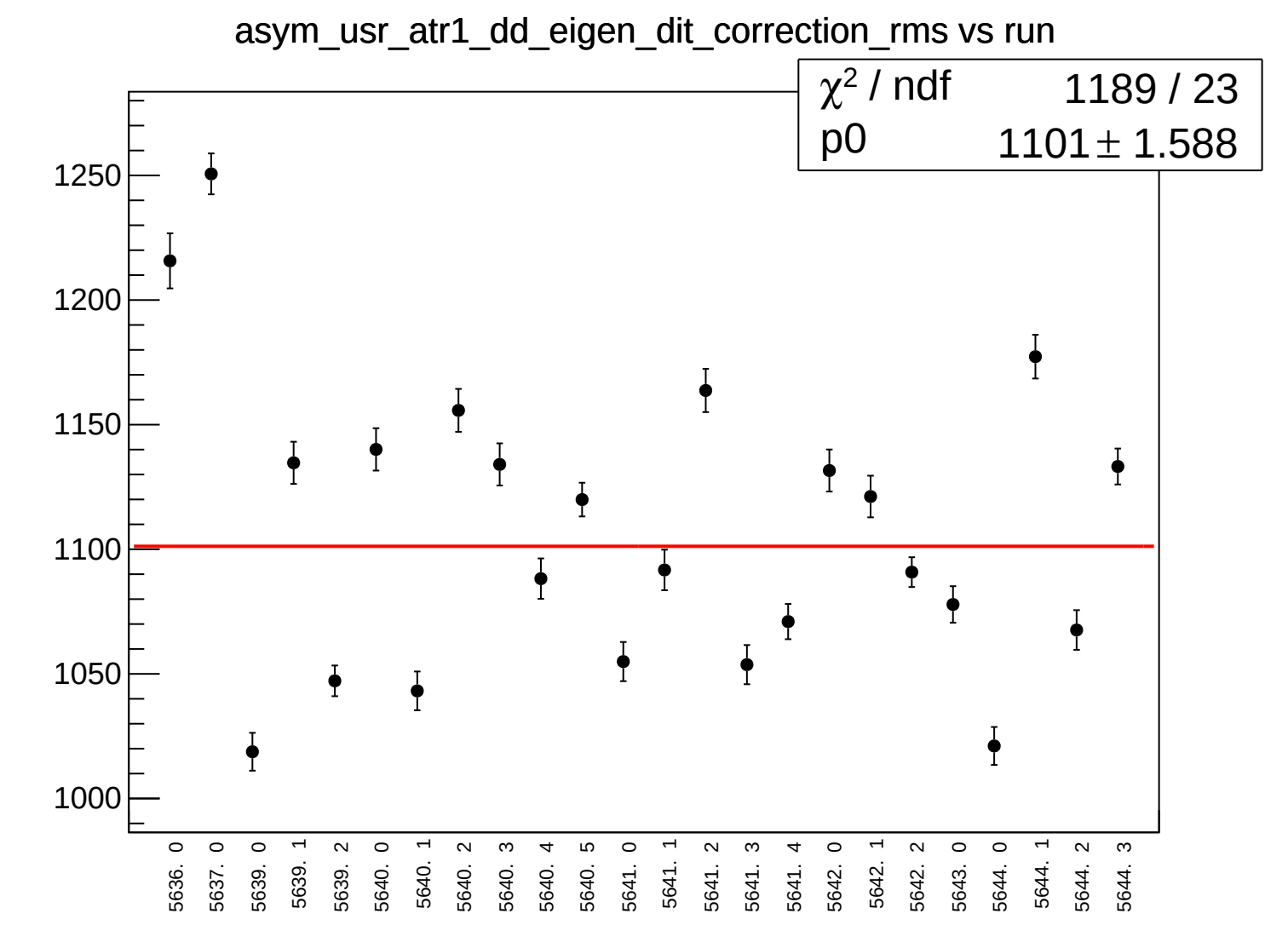

pull1D
Entries 24
Mean −0.01299
Std Dev 1.011
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

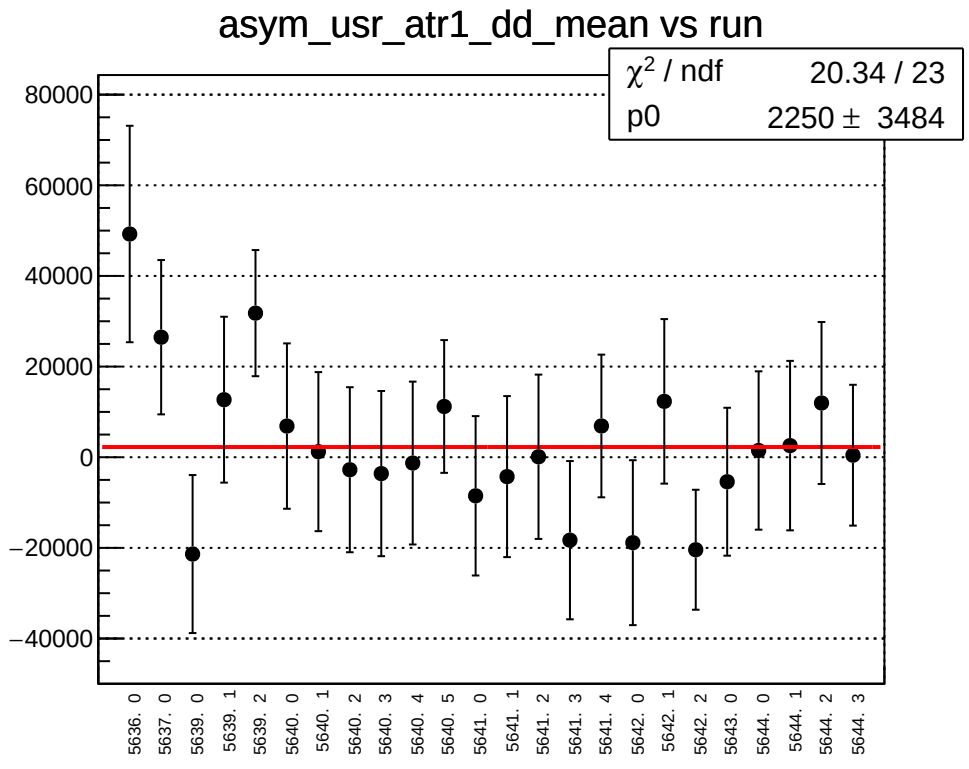

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 49.27 / 23
p0 1300 ± 1.871
1380
1360
1340
1320
1300
1280
1260
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

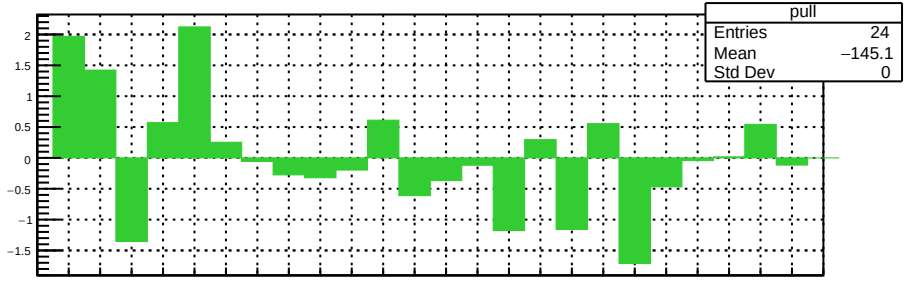

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 32.53 / 23
p0 625.2 ± 2245
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

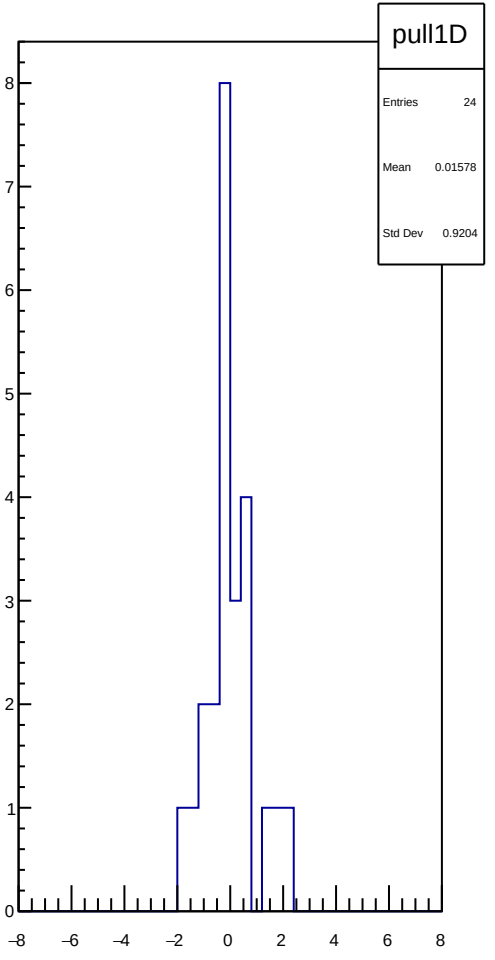

pull
Entries 24
Mean −4.798
Std Dev 11.71
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

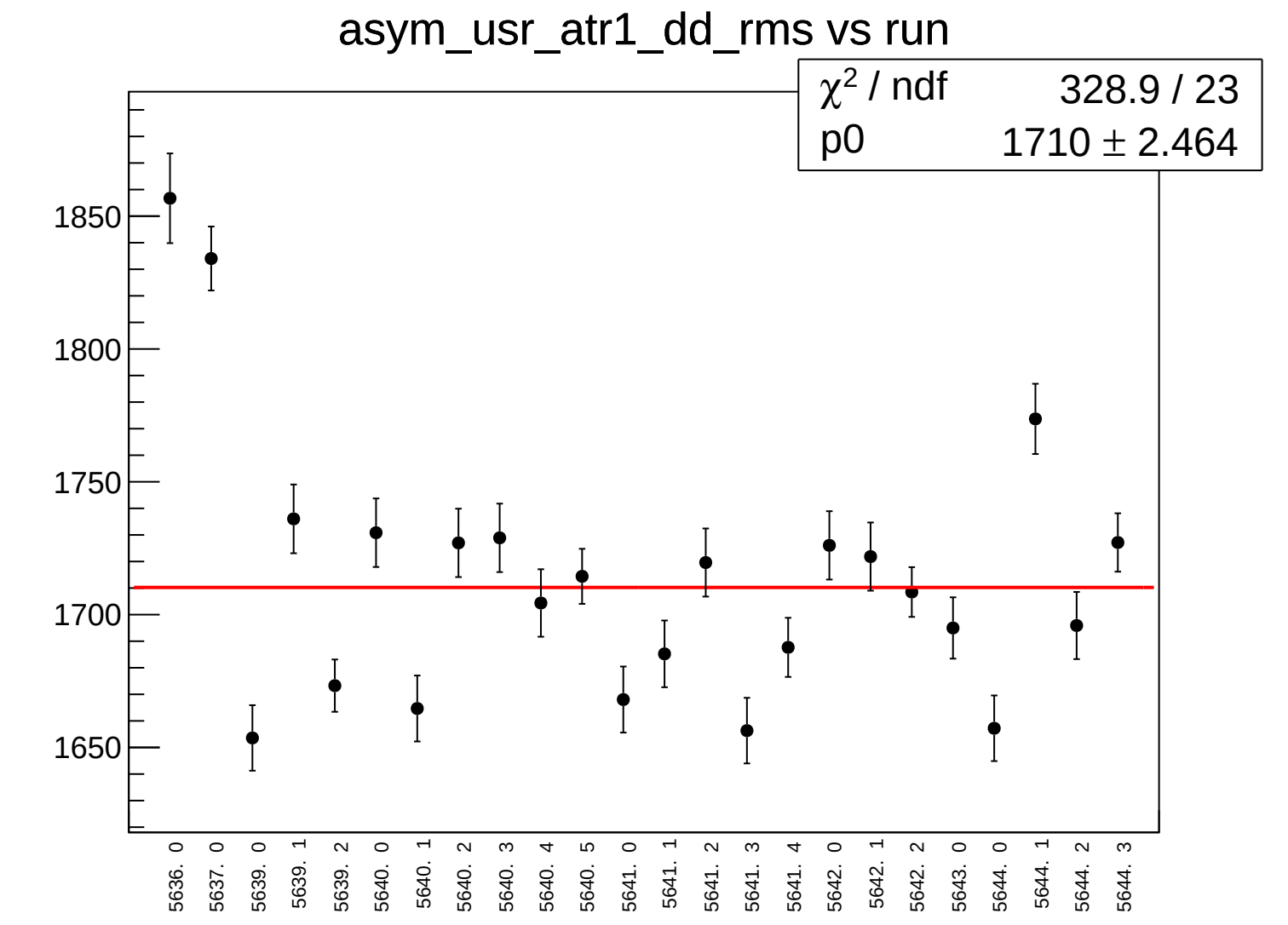

pull1D
Entries 24
Mean −0.04793
Std Dev 1.163
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

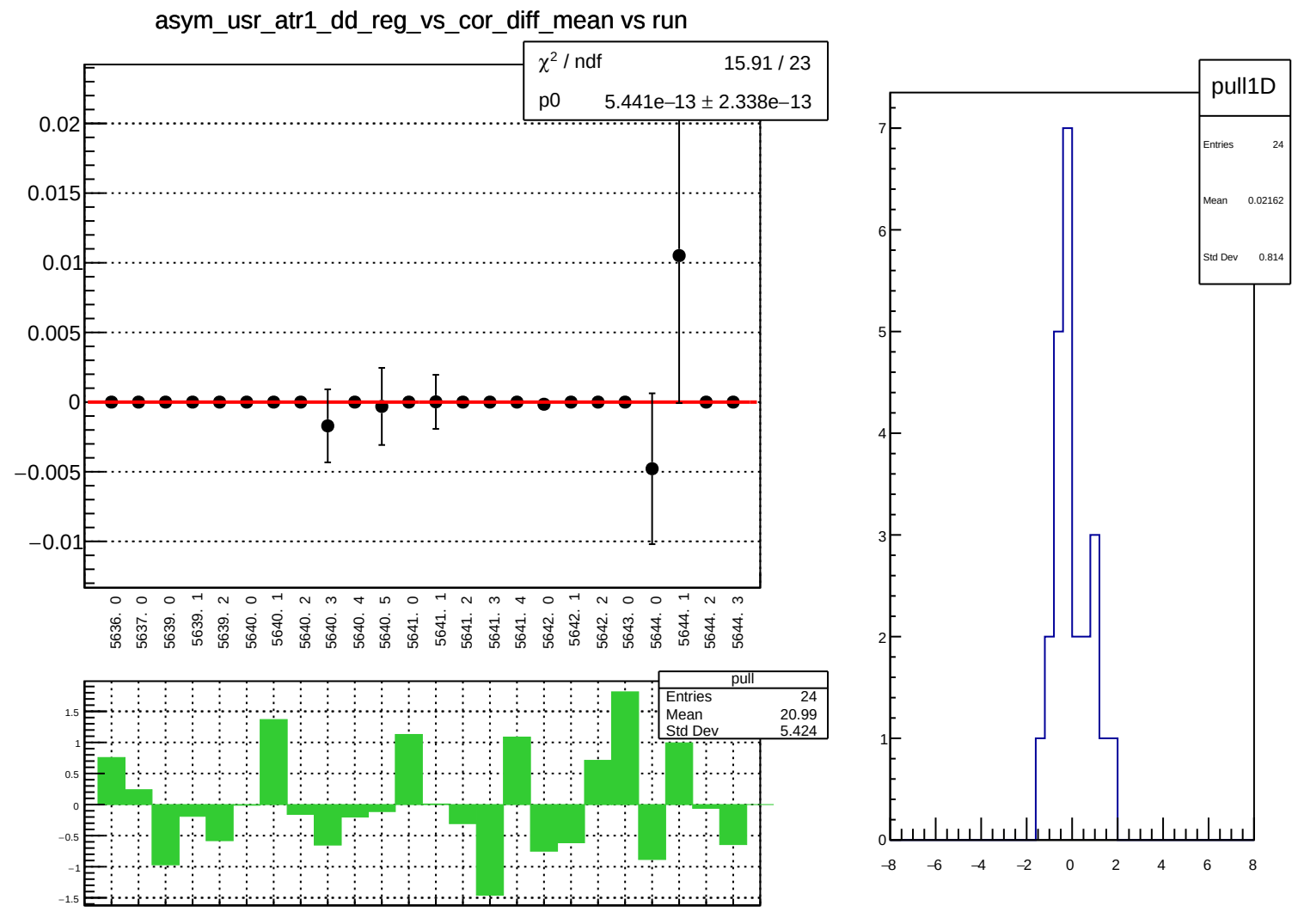

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1189 / 23
p0 1101 ± 1.588
1250
1200
1150
1100
1050
1000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

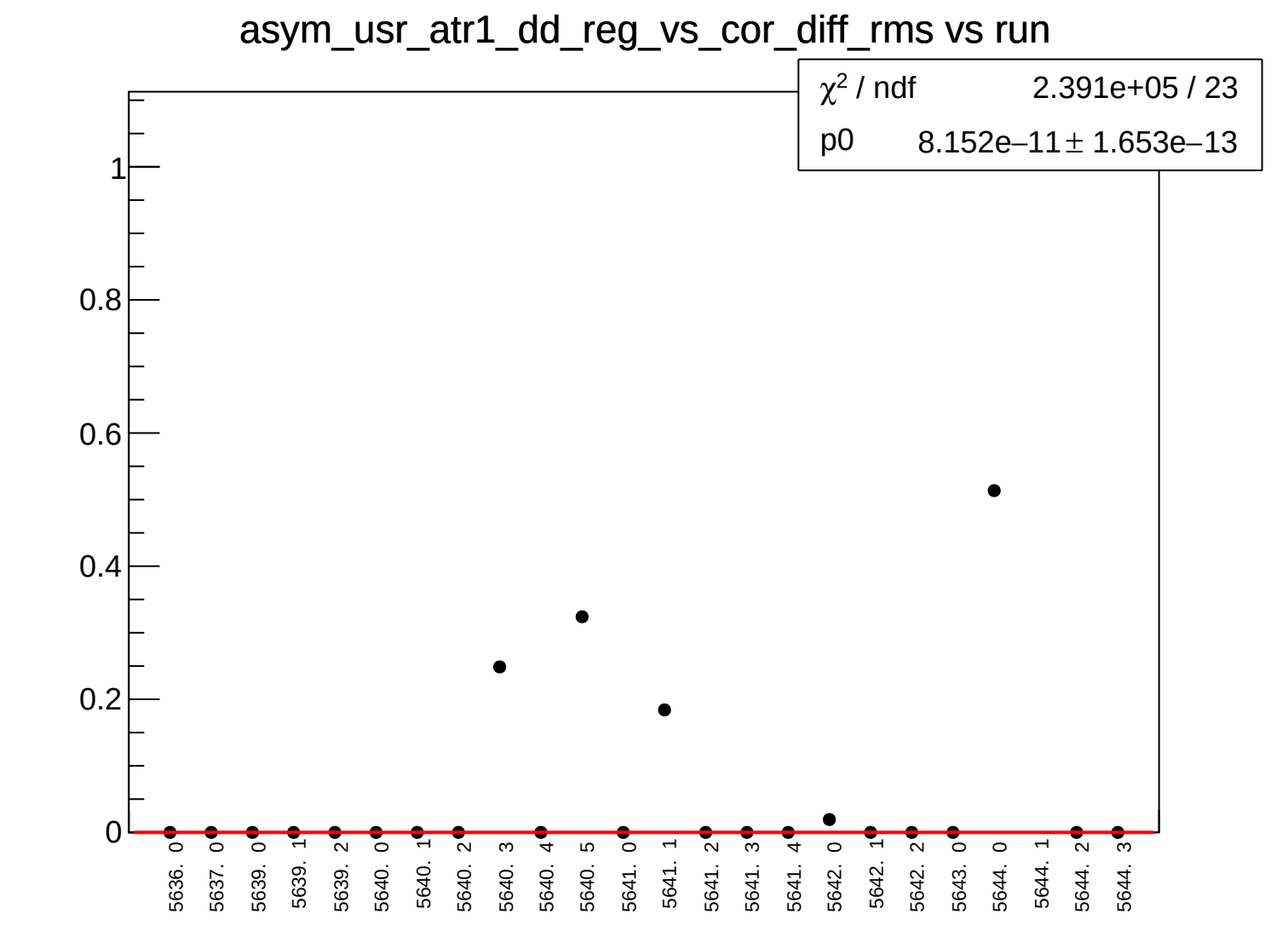

asym_usr_atr1_dd_mean vs run
χ² / ndf 20.34 / 23
p0 2250 ± 3484
80000
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

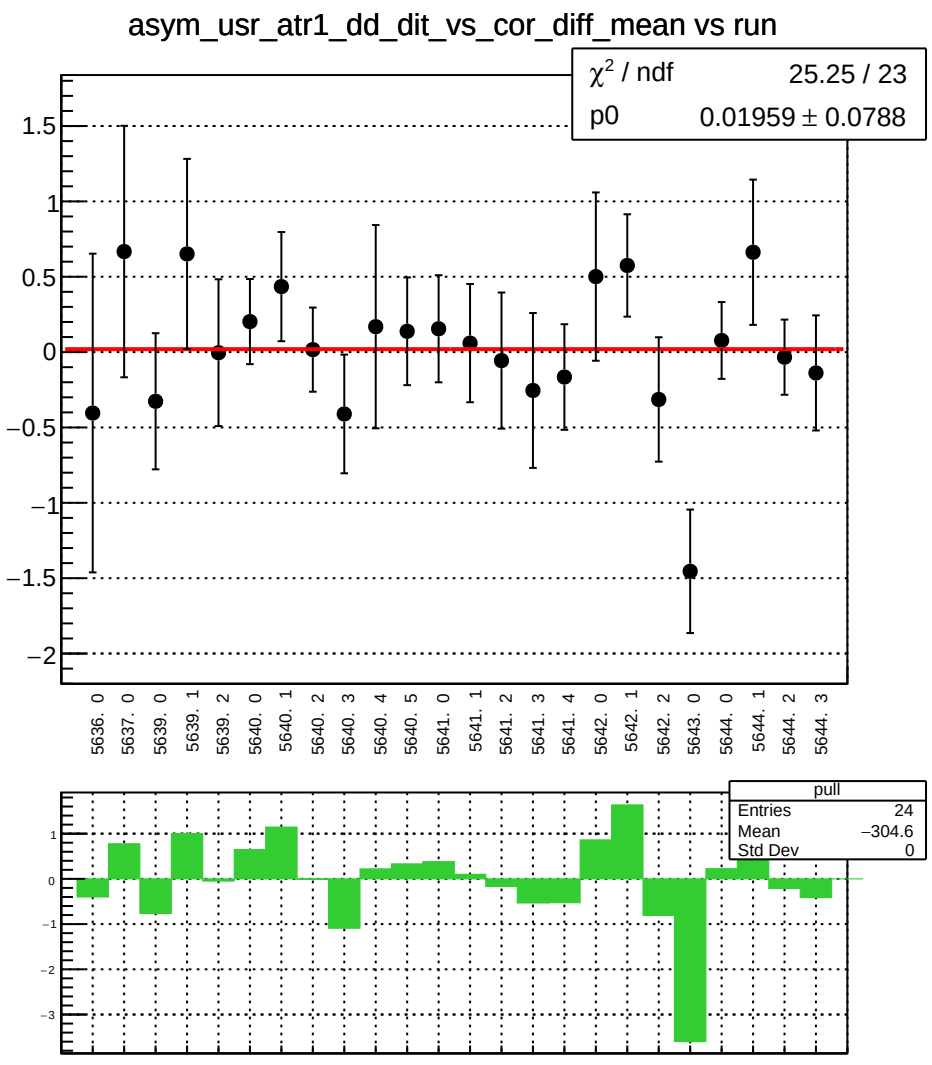

pull
Entries 24
Mean −145.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

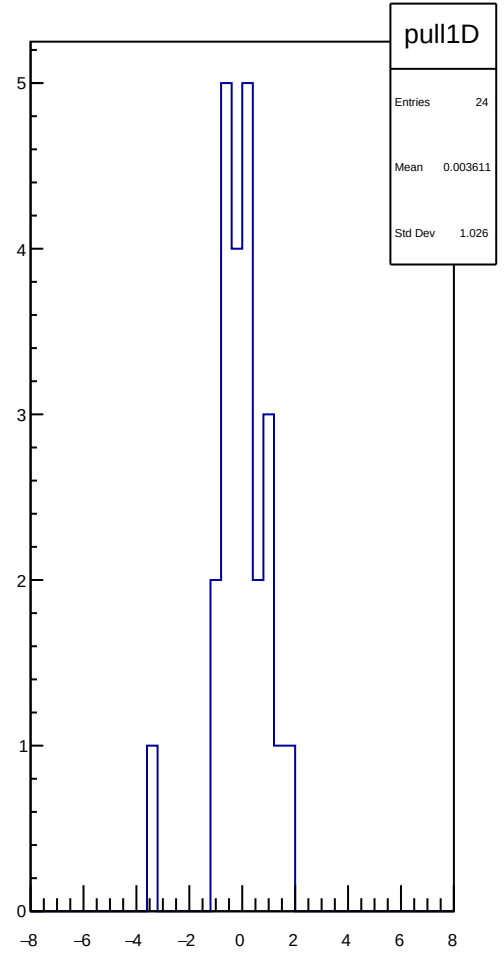

pull1D
Entries 24
Mean 0.01578
Std Dev 0.9204
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

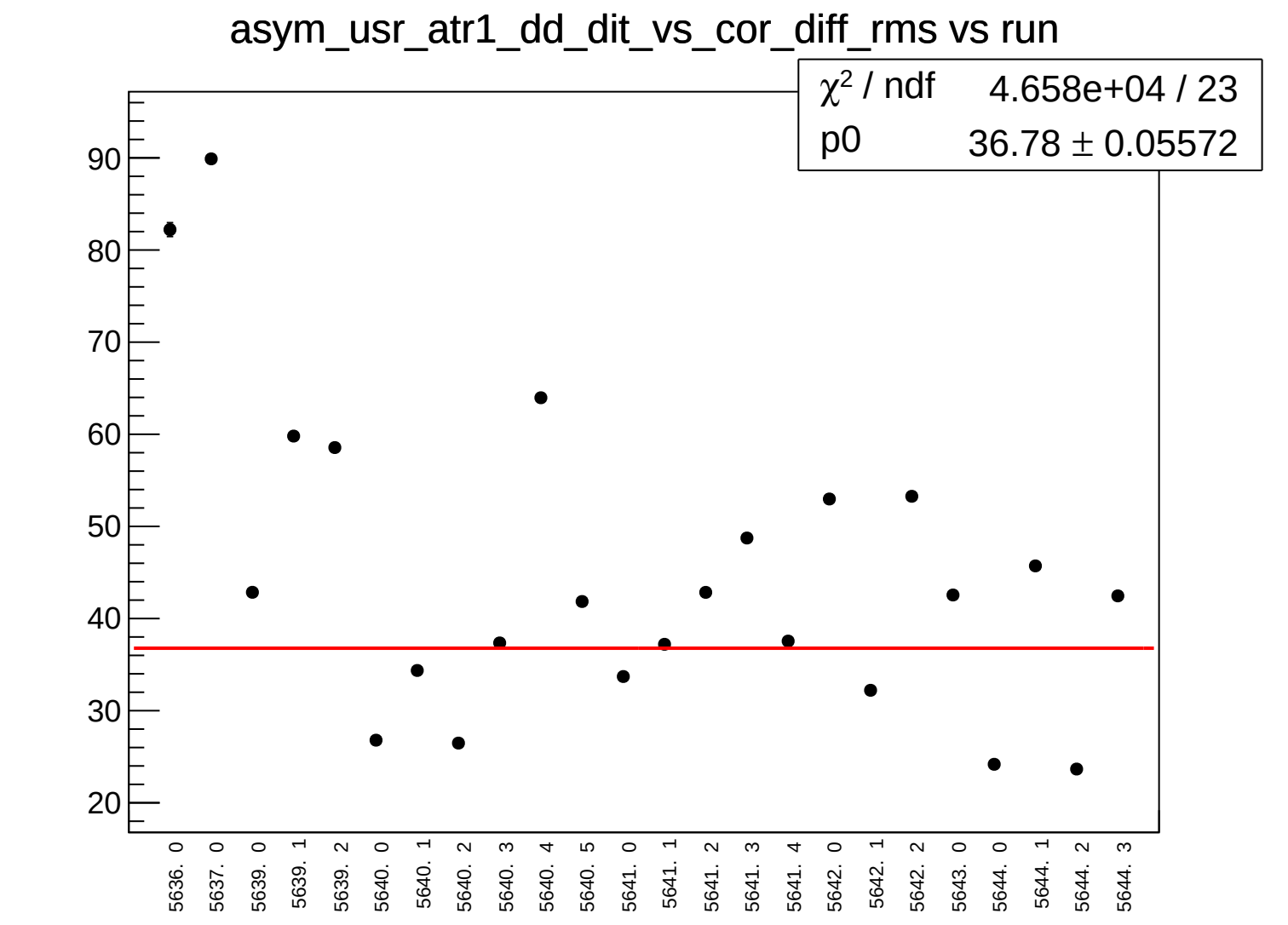

asym_usr_atr1_dd_rms vs run
χ² / ndf 328.9 / 23
p0 1710 ± 2.464
1850
1800
1750
1700
1650
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

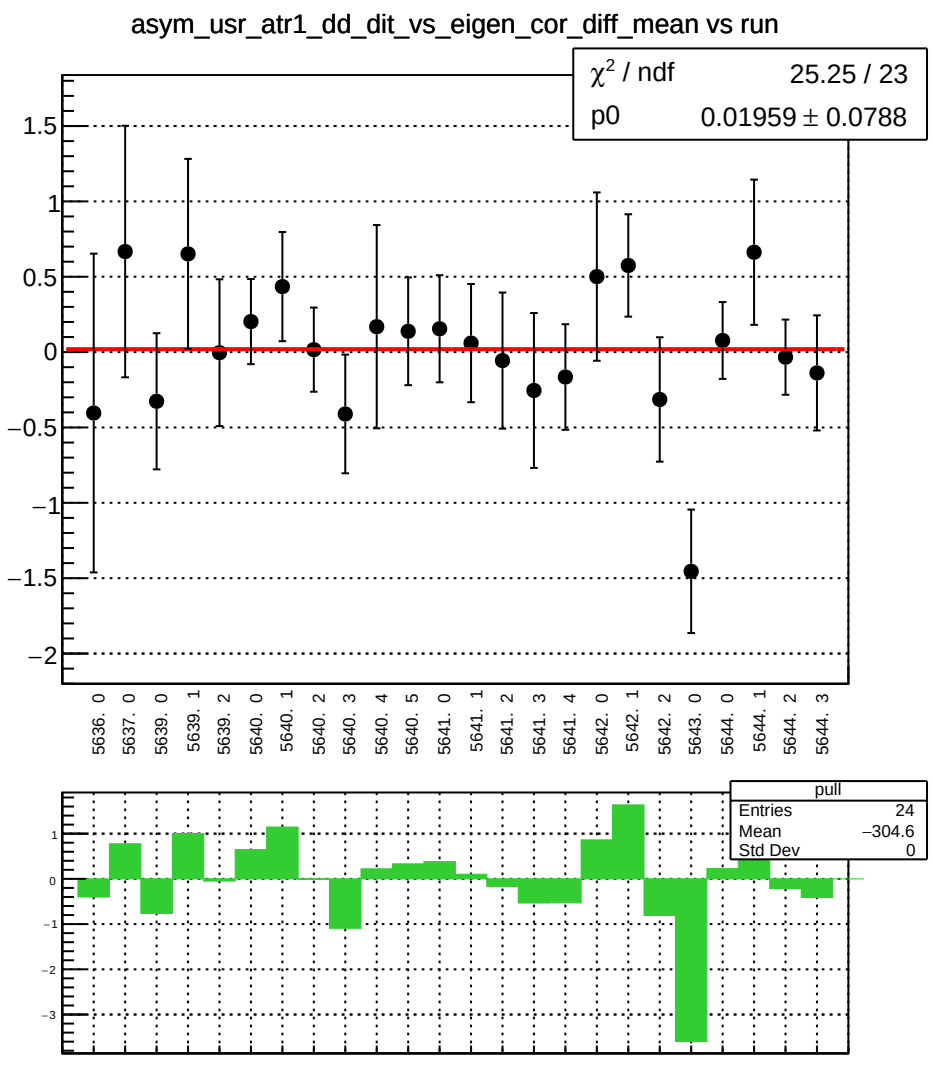

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 15.91 / 23
p0 5.441e−13 ± 2.338e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 20.99
Std Dev 5.424
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.02162
Std Dev 0.814
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

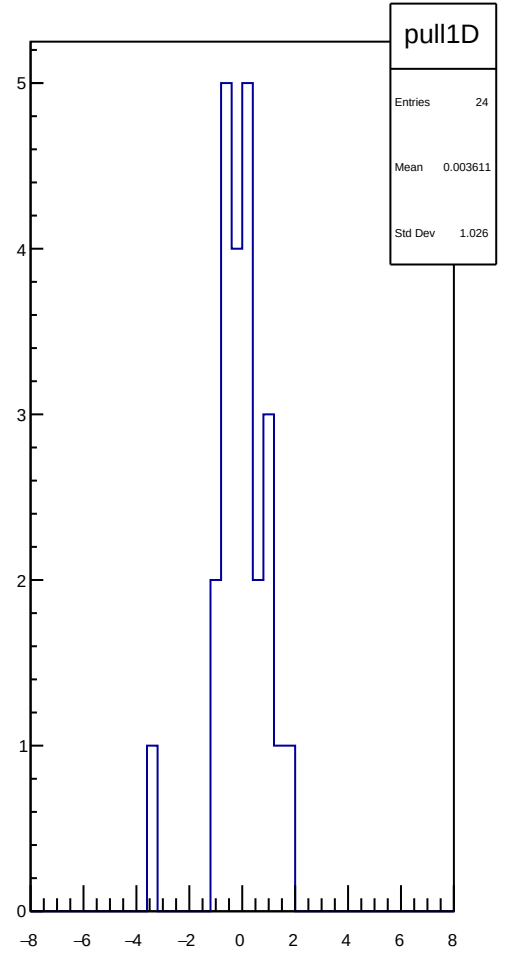

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.391e+05 / 23
p0 8.152e−11 ± 1.653e−13
1
0.8
0.6
0.4
0.2
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

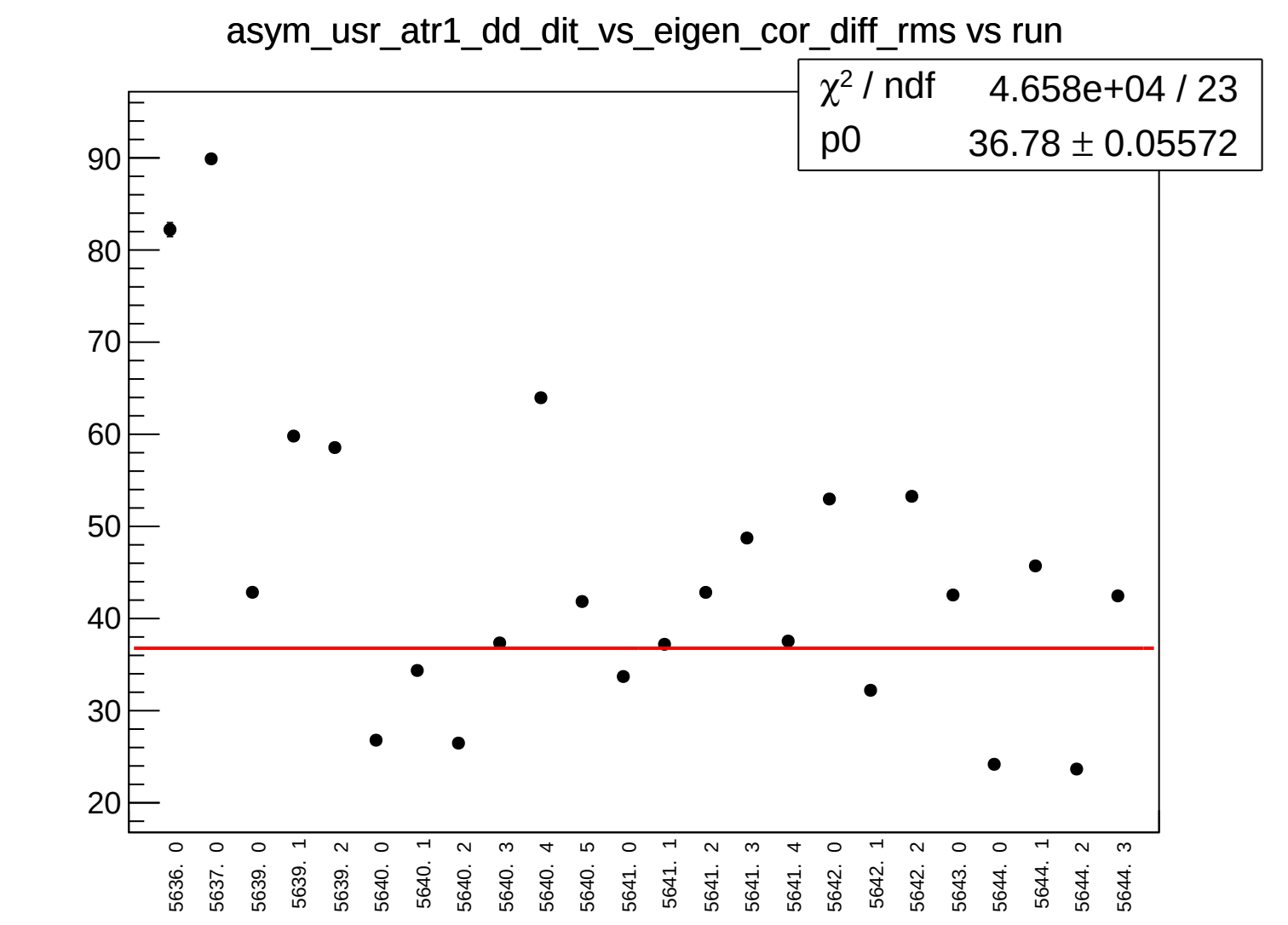

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 25.25 / 23
p0 0.01959 ± 0.0788
1.5
1
0.5
0
−0.5
−1
−1.5
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −304.6
Std Dev 0
1
0
−1
−2
−3

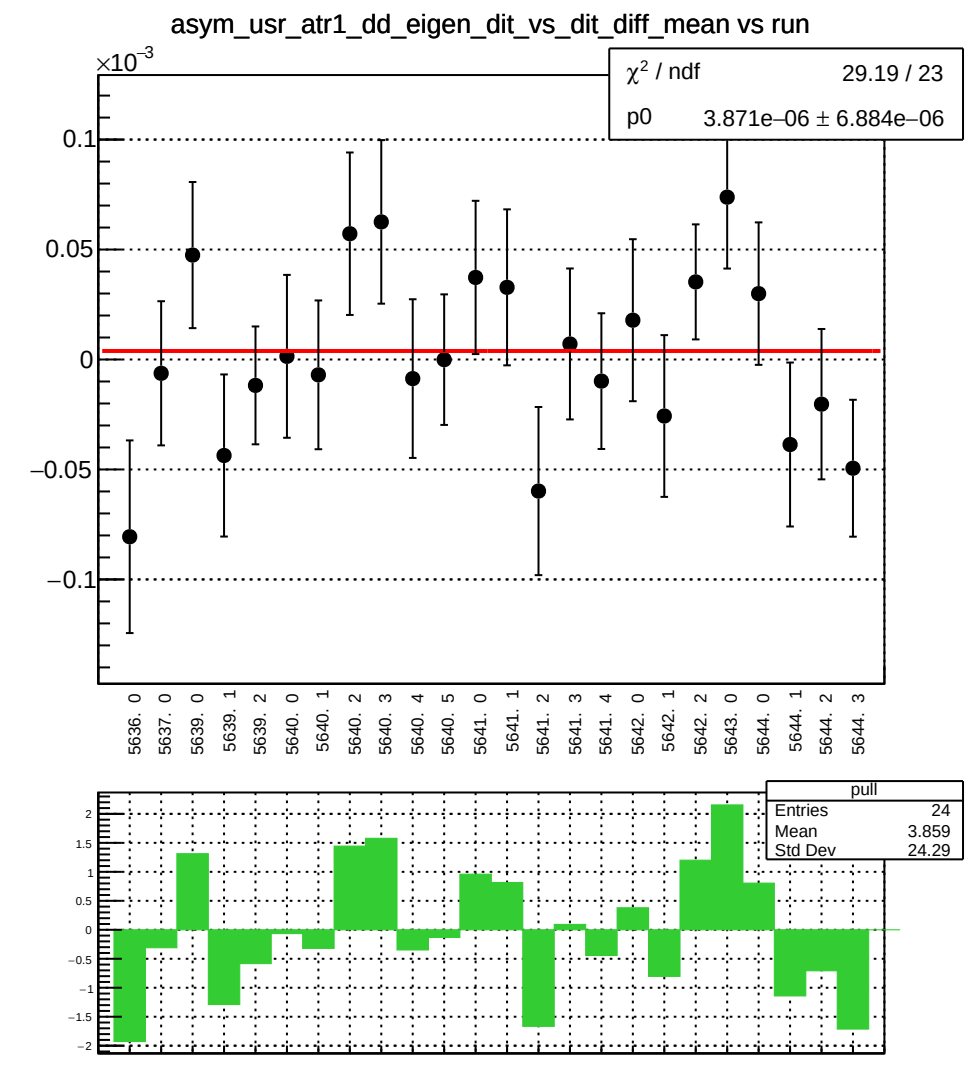

pull1D
Entries 24
Mean 0.003611
Std Dev 1.026
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

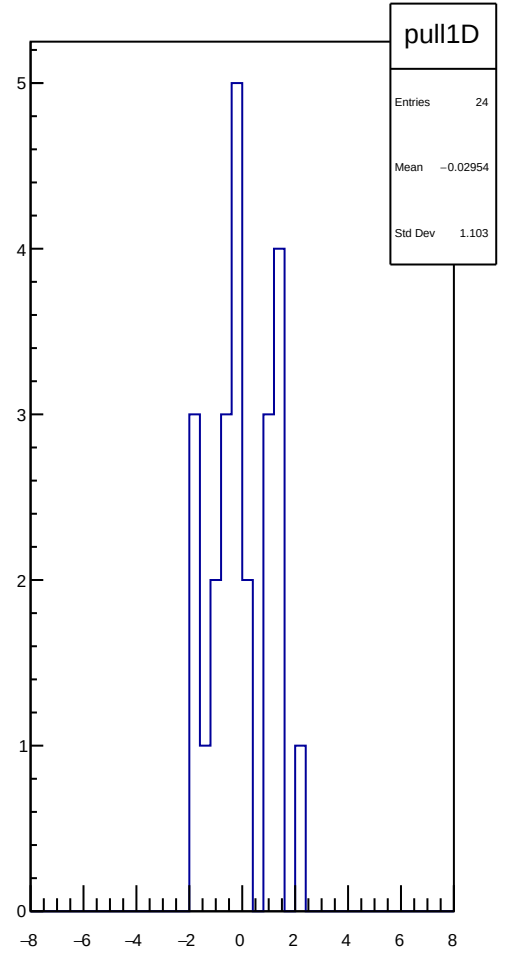

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.658e+04 / 23
p0 36.78 ± 0.05572
90
80
70
60
50
40
30
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

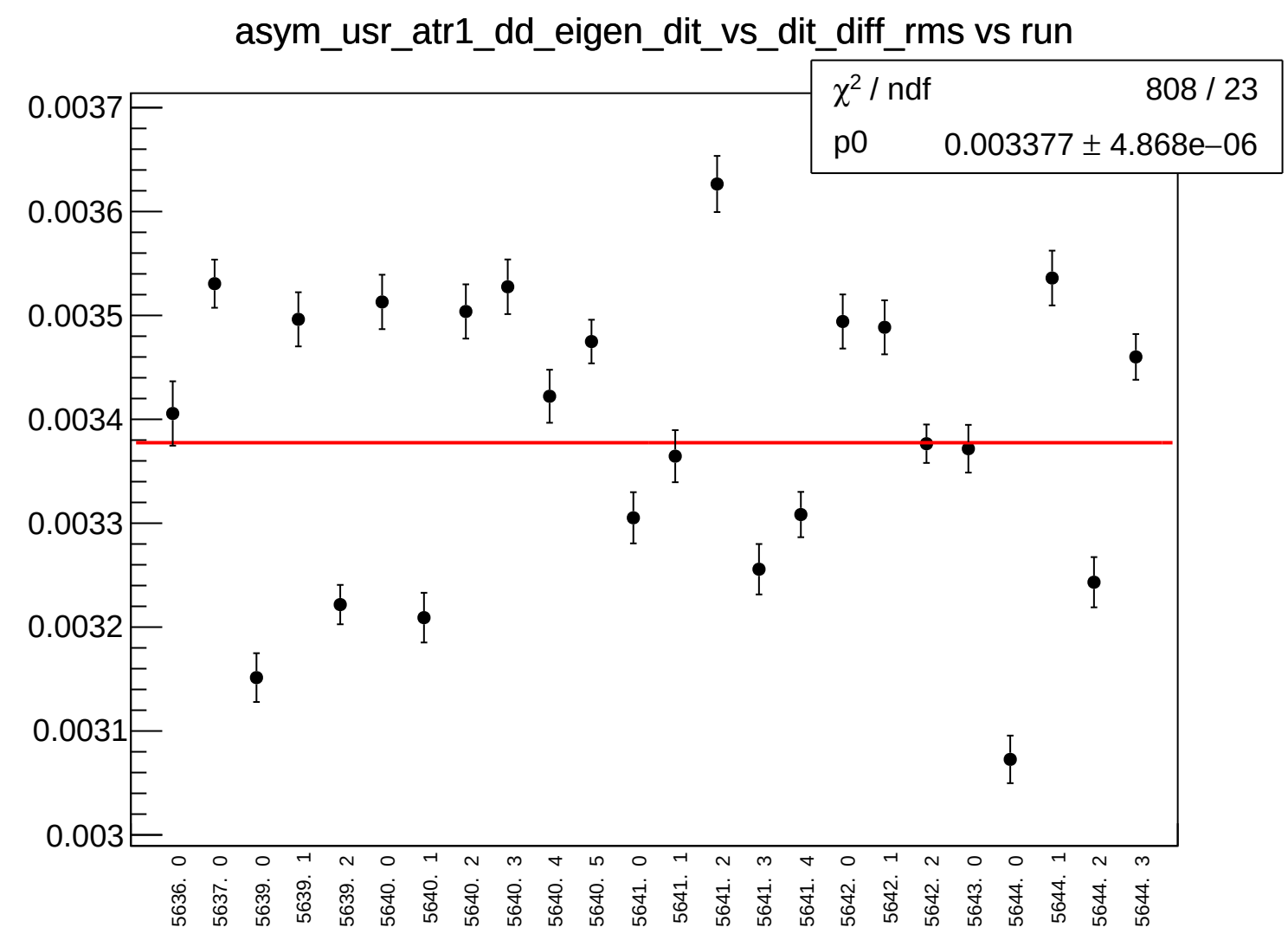

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.25 / 23
p0 0.01959 ± 0.0788
1.5
1
0.5
0
−0.5
−1
−1.5
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −304.6
Std Dev 0
1
0
−1
−2
−3

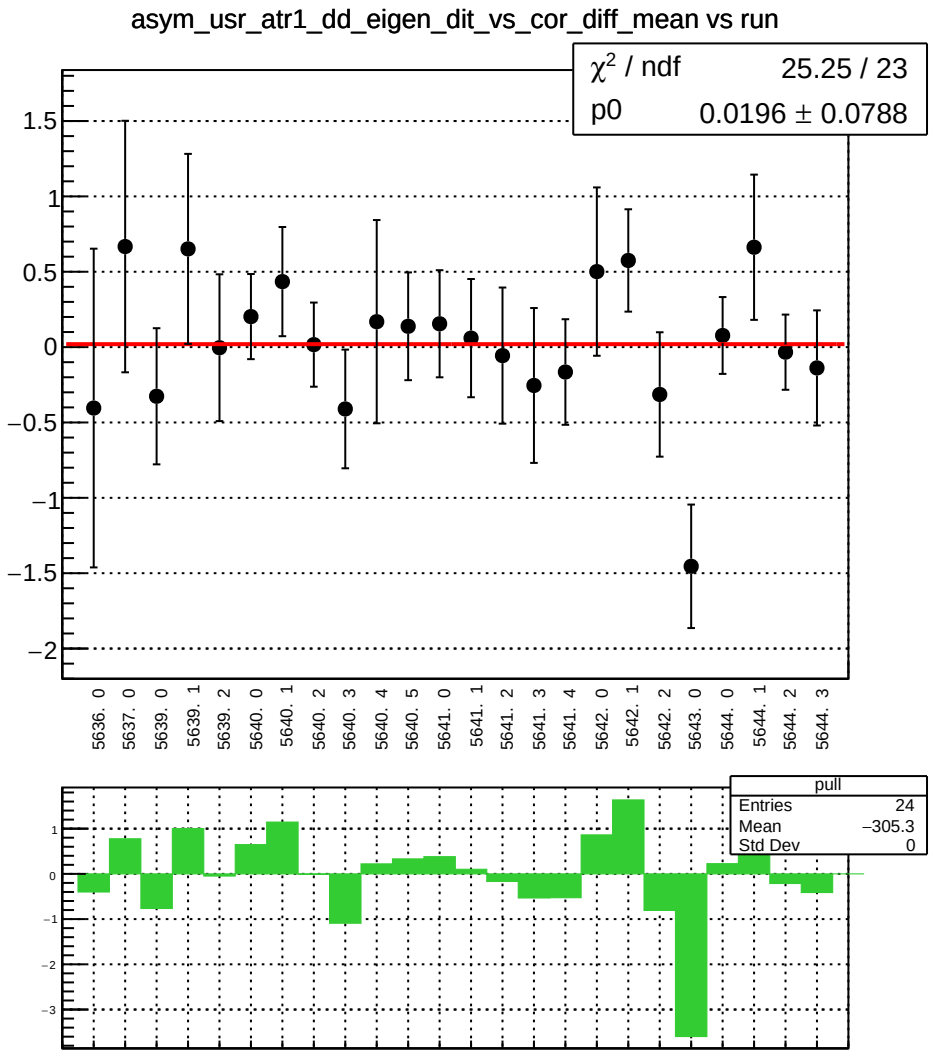

pull1D
Entries 24
Mean 0.003611
Std Dev 1.026
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

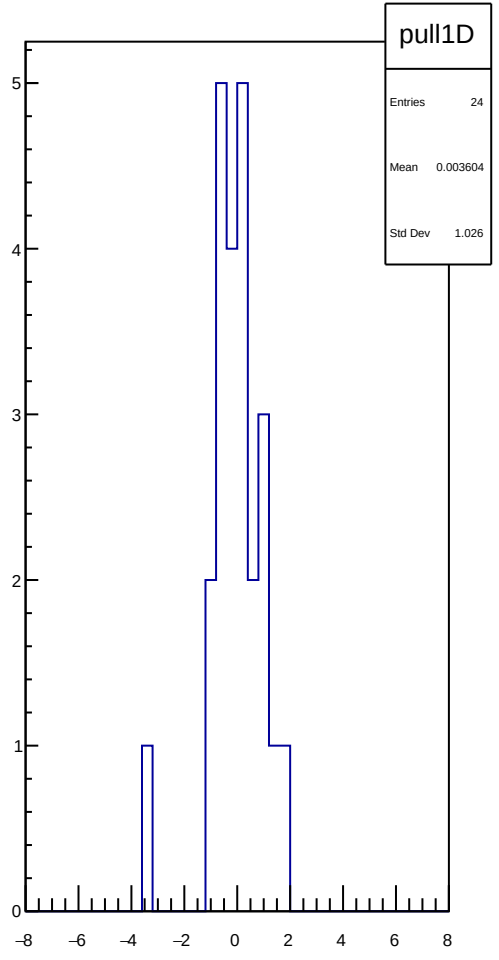

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.658e+04 / 23
p0 36.78 ± 0.05572
90
80
70
60
50
40
30
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

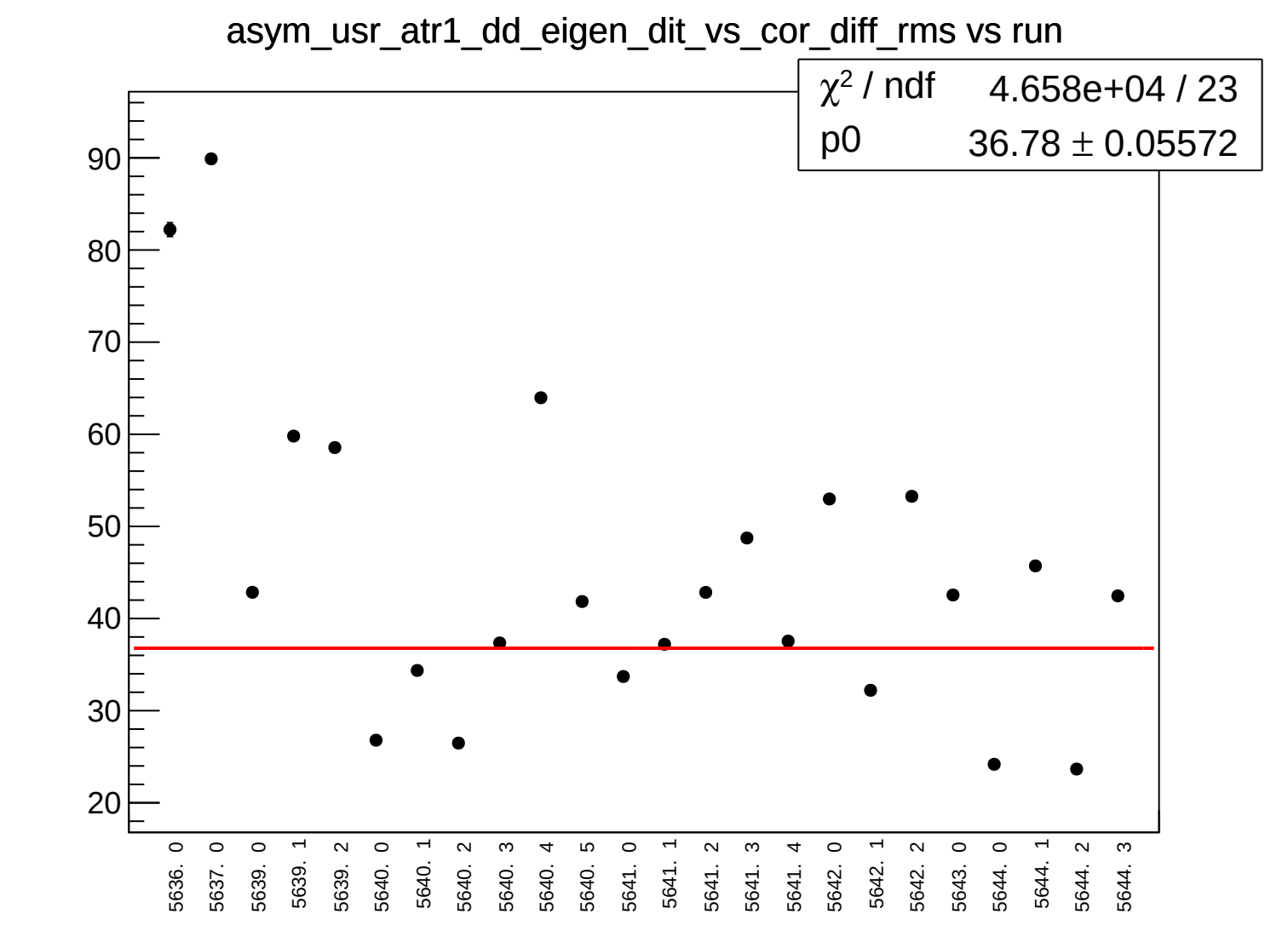

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 29.19 / 23
p0 3.871e−06 ± 6.884e−06
0.1
0.05
0
−0.05
−0.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 3.859
Std Dev 24.29
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

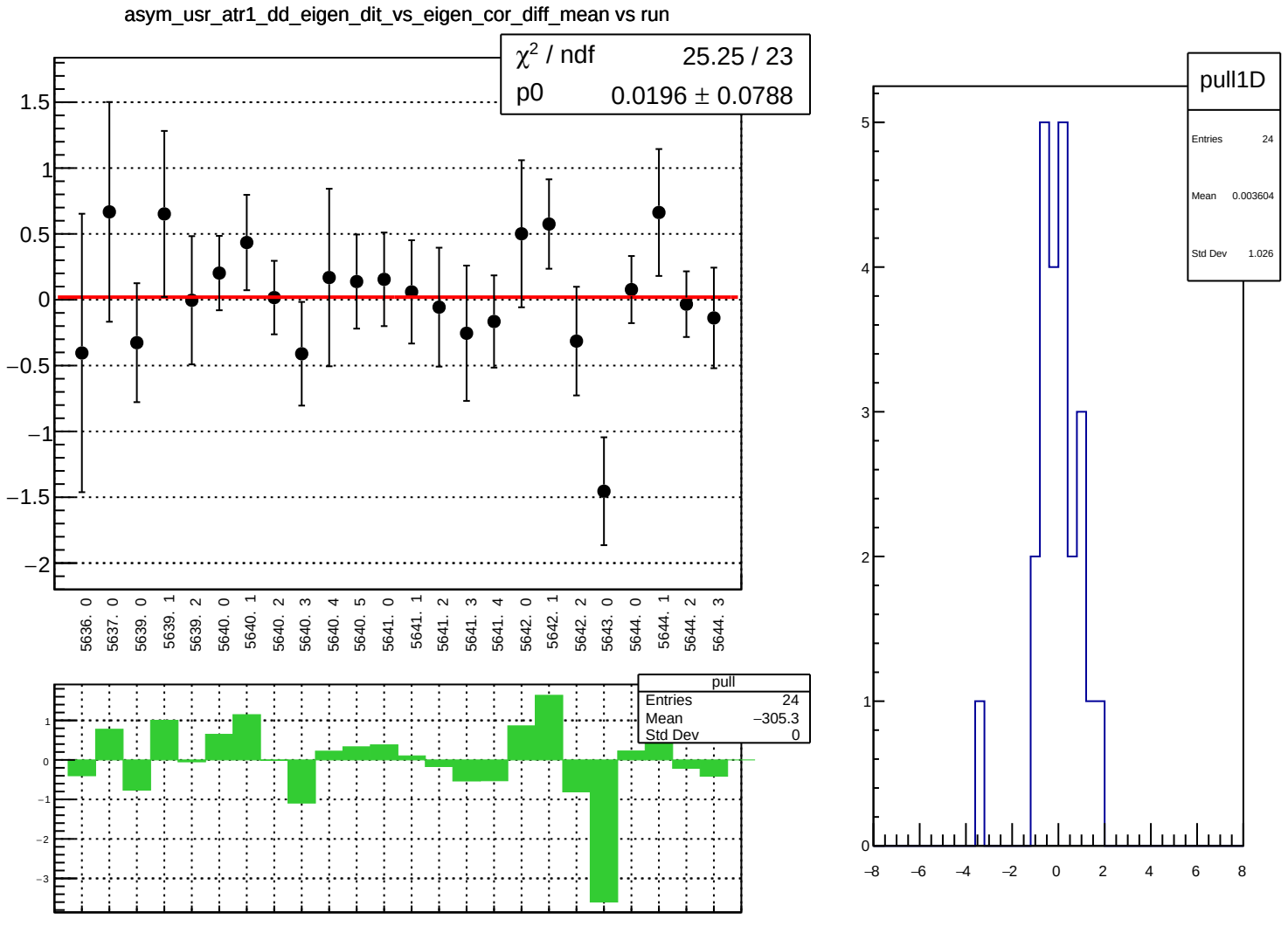

pull1D
Entries 24
Mean −0.02954
Std Dev 1.103
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

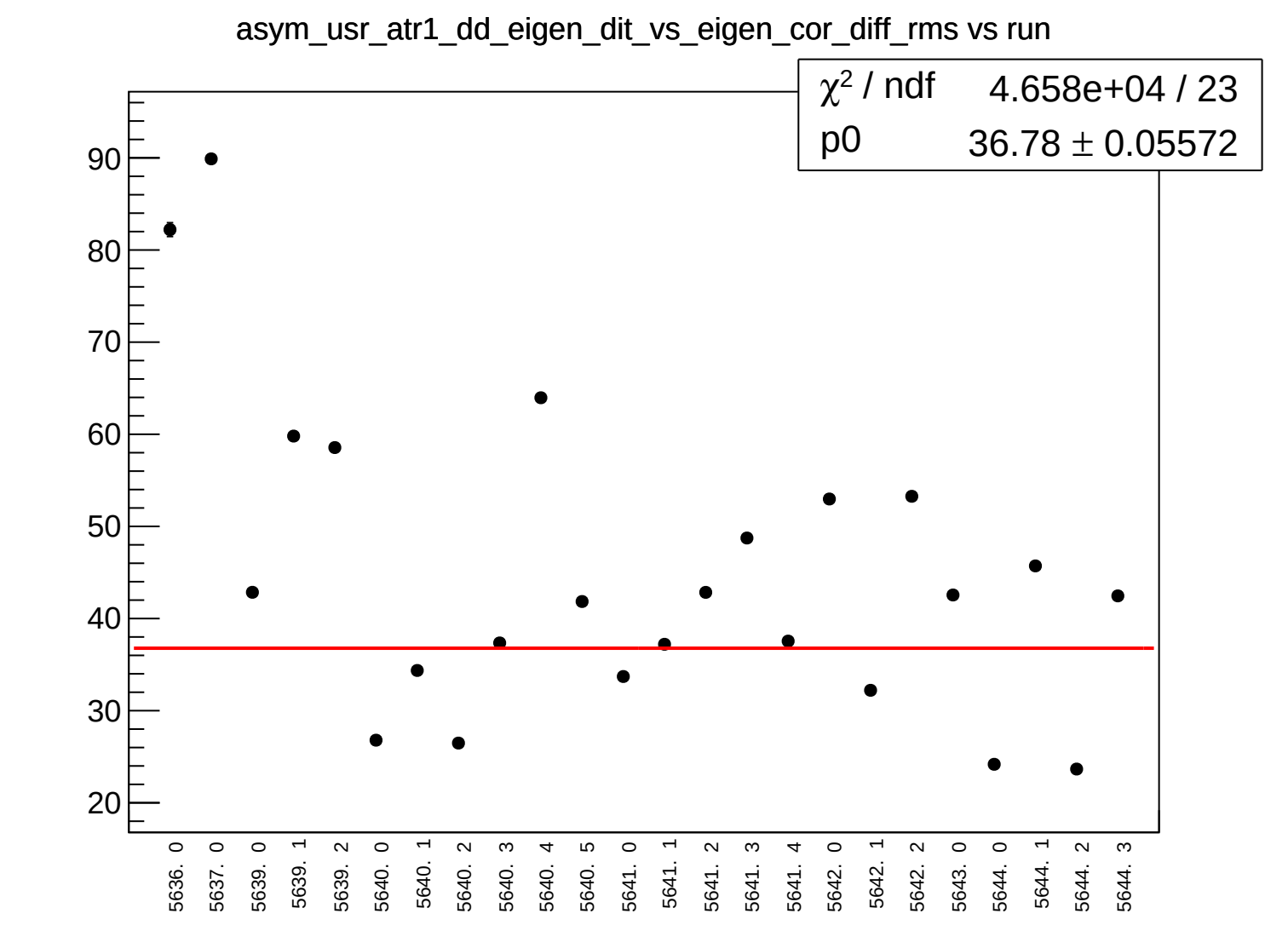

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 808 / 23
p0 0.003377 ± 4.868e−06
0.0037
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031
0.003
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

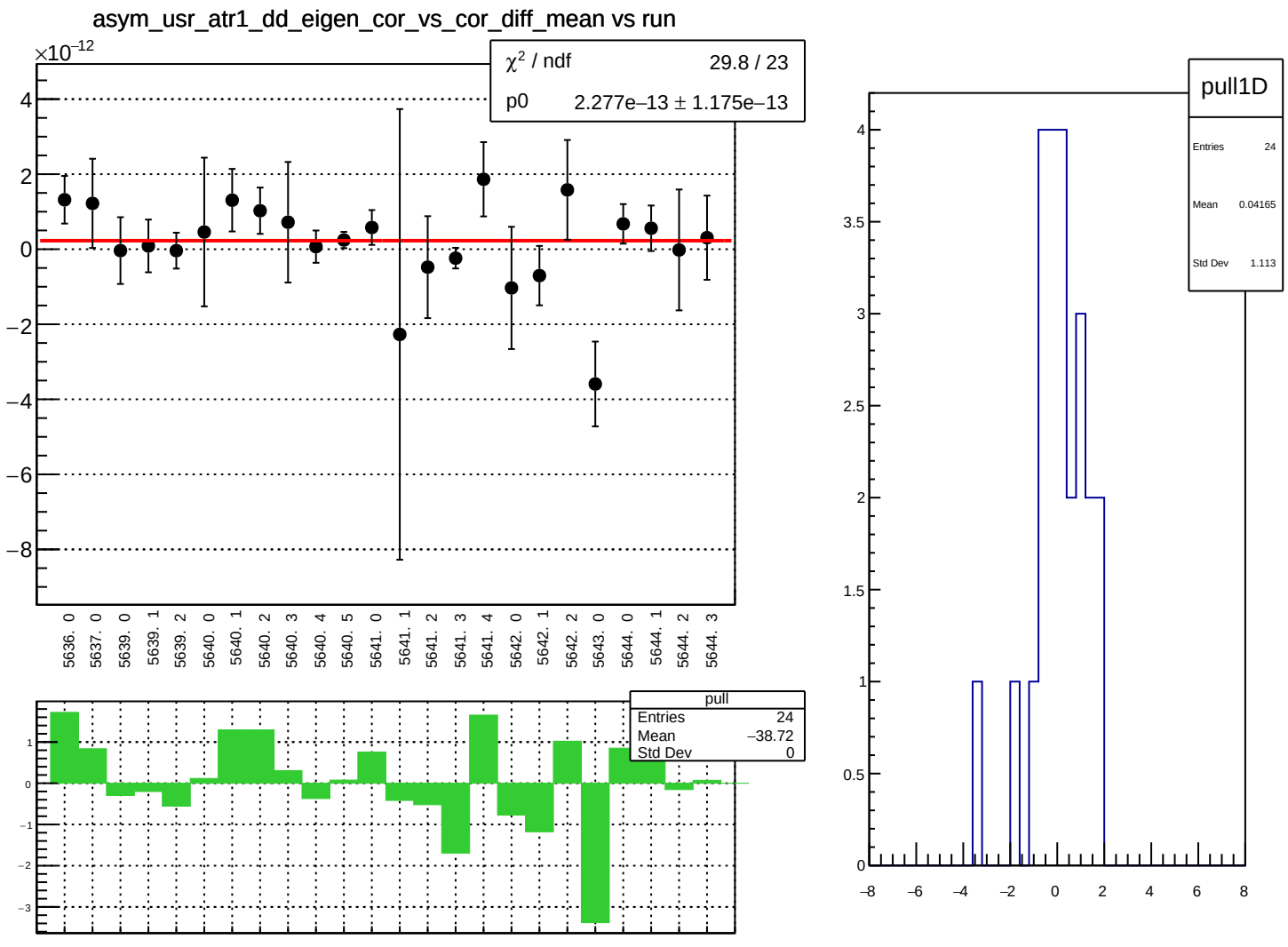

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 25.25 / 23
p0 0.0196 ± 0.0788
1.5
1
0.5
0
−0.5
−1
−1.5
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −305.3
Std Dev 0
1
0
−1
−2
−3

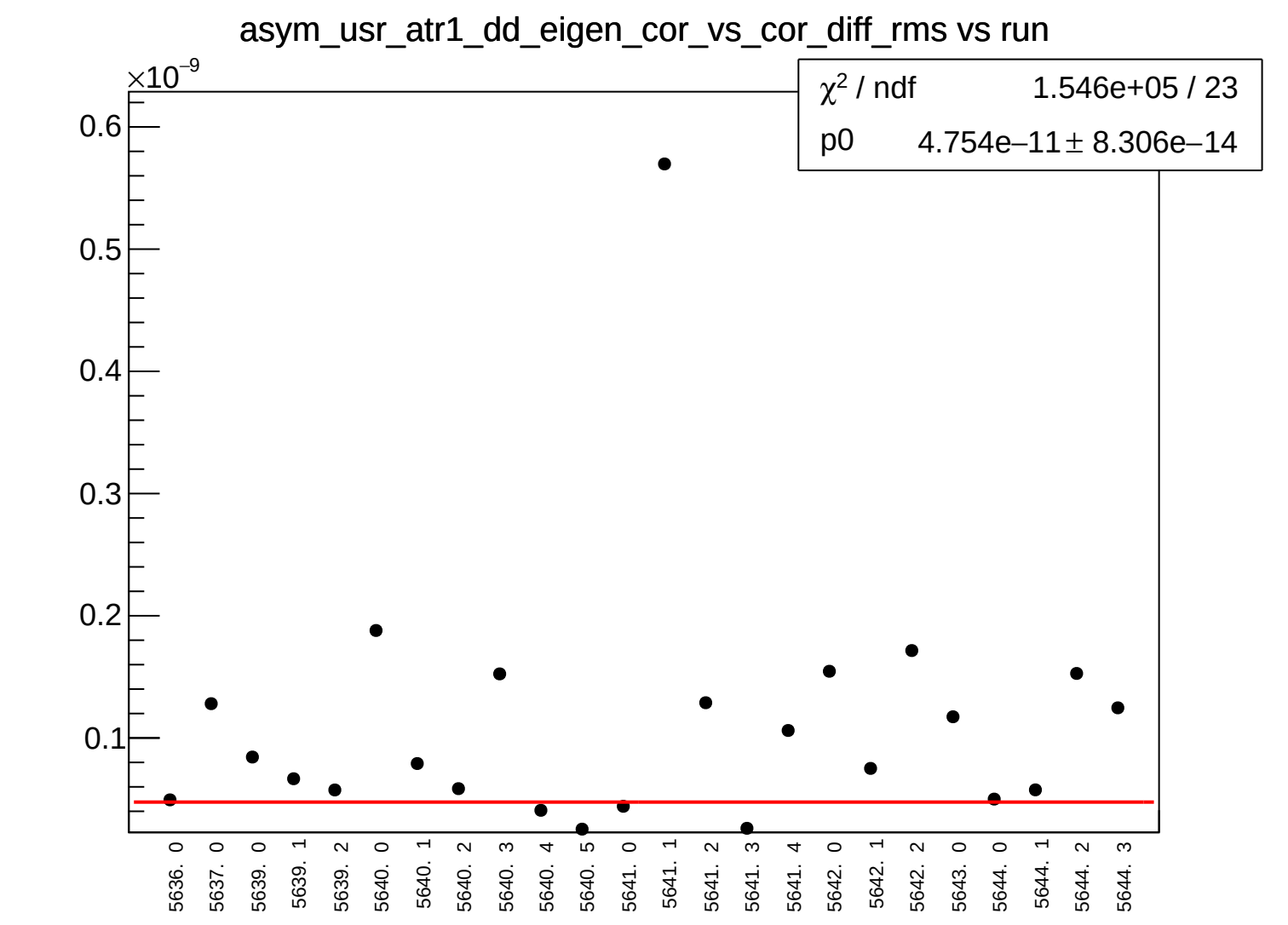

pull1D
Entries 24
Mean 0.003604
Std Dev 1.026
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

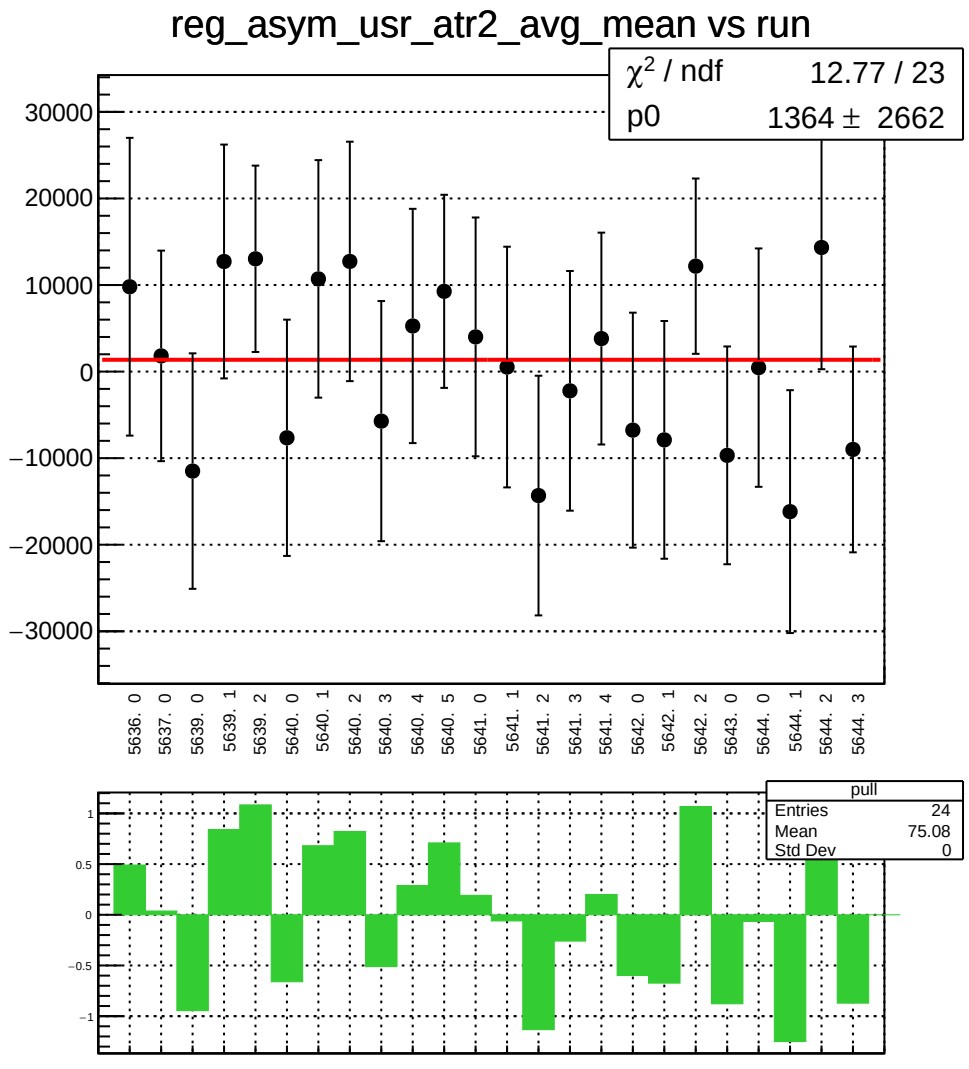

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.658e+04 / 23
p0 36.78 ± 0.05572
90
80
70
60
50
40
30
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

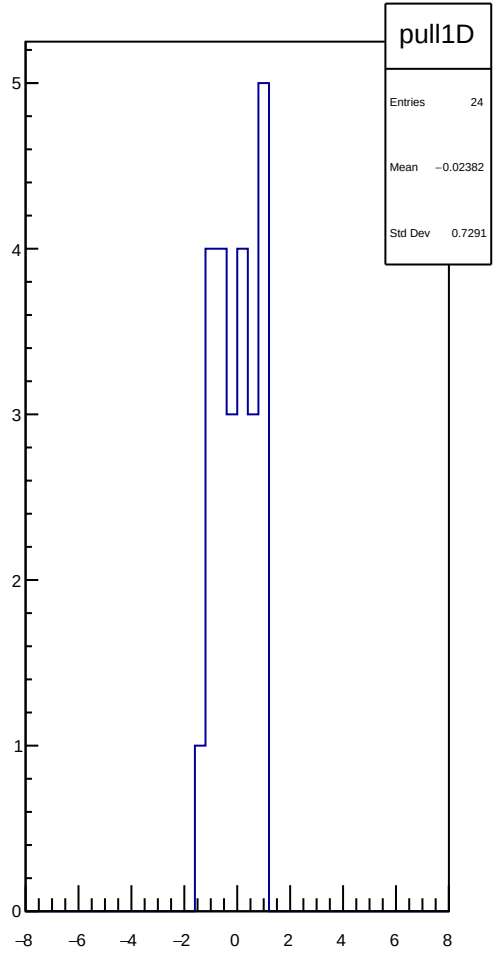

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.25 / 23
p0 0.0196 ± 0.0788
1.5
1
0.5
0
−0.5
−1
−1.5
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −305.3
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 24
Mean 0.003604
Std Dev 1.026
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

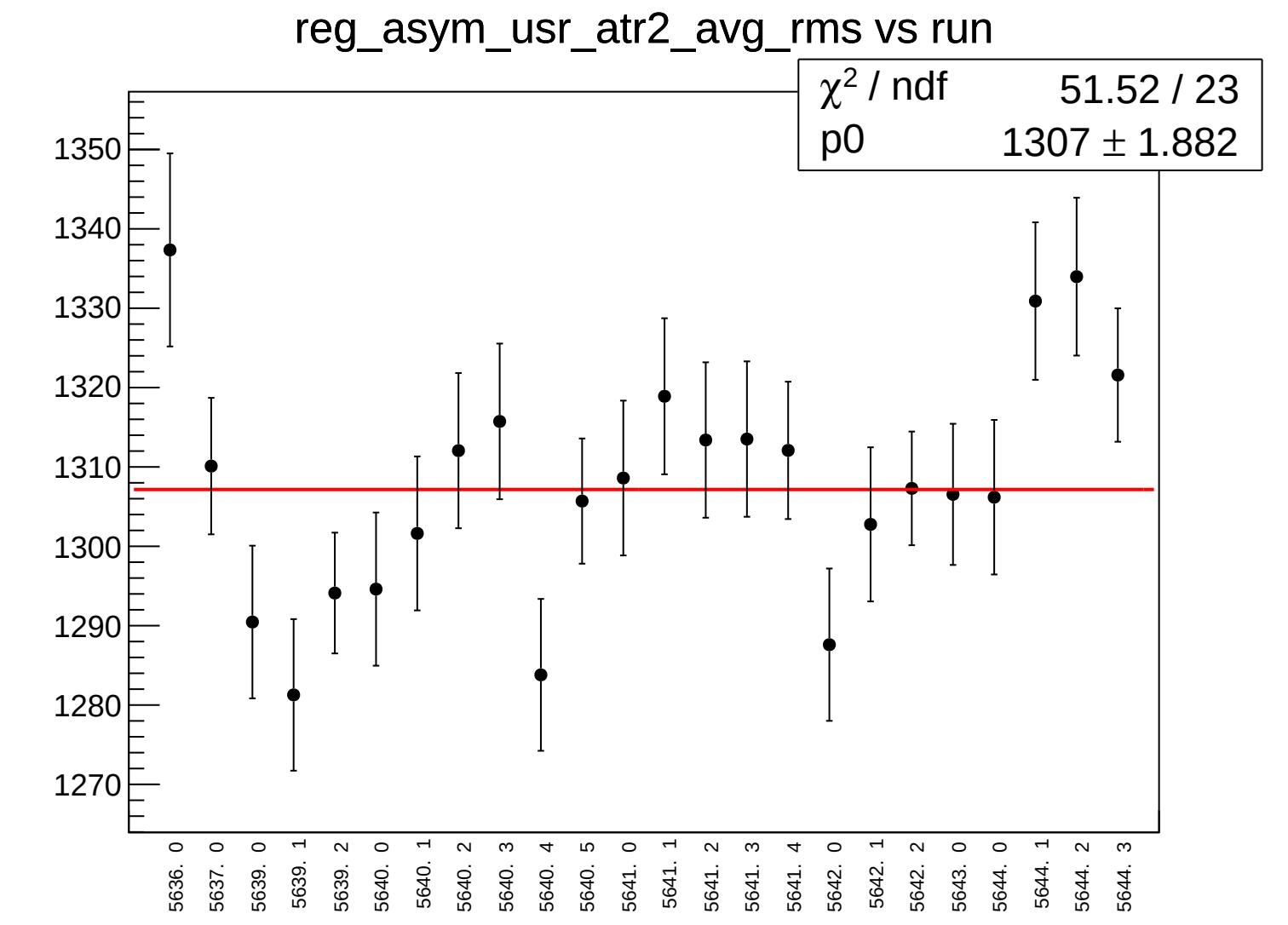

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.658e+04 / 23
p0 36.78 ± 0.05572
90
80
70
60
50
40
30
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

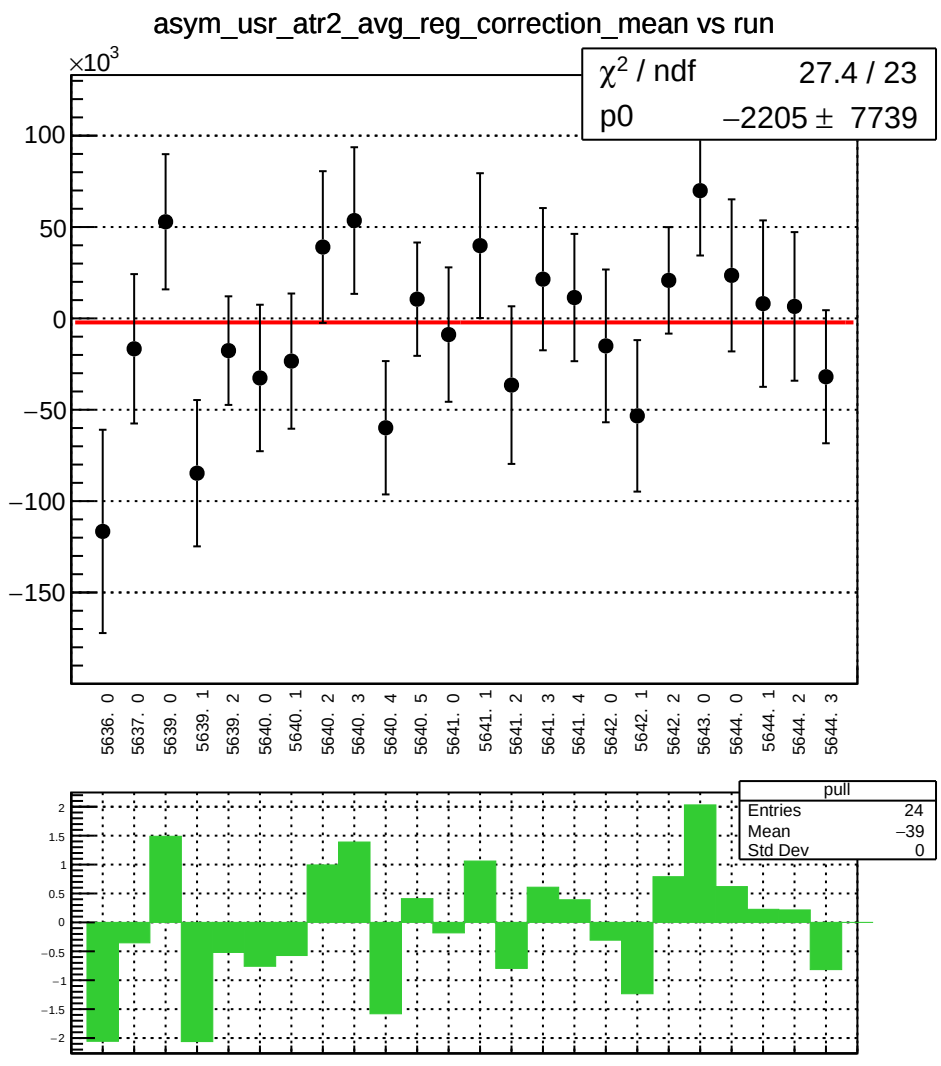

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 29.8 / 23
p0 2.277e−13 ± 1.175e−13
4
2
0
−2
−4
−6
−8
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −38.72
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 24
Mean 0.04165
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

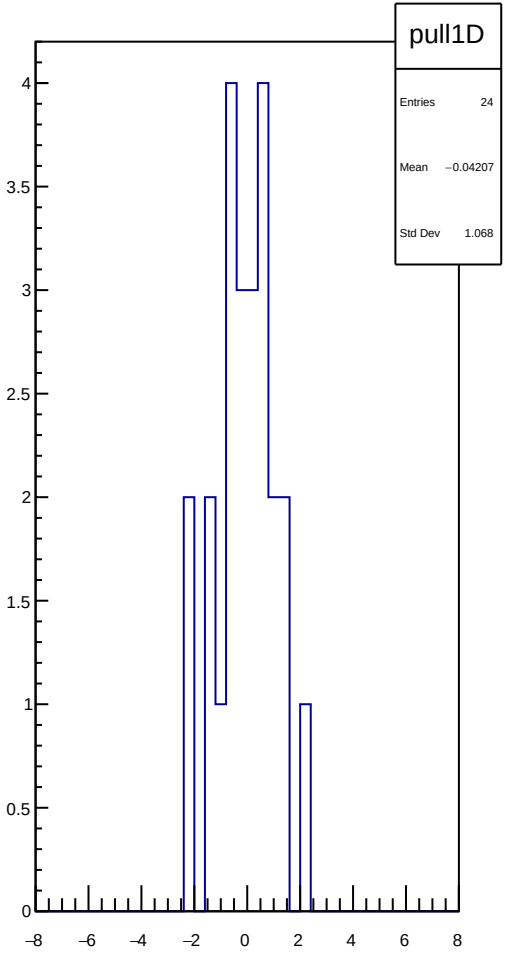

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.546e+05 / 23
p0 4.754e−11 ± 8.306e−14
0.6
0.5
0.4
0.3
0.2
0.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

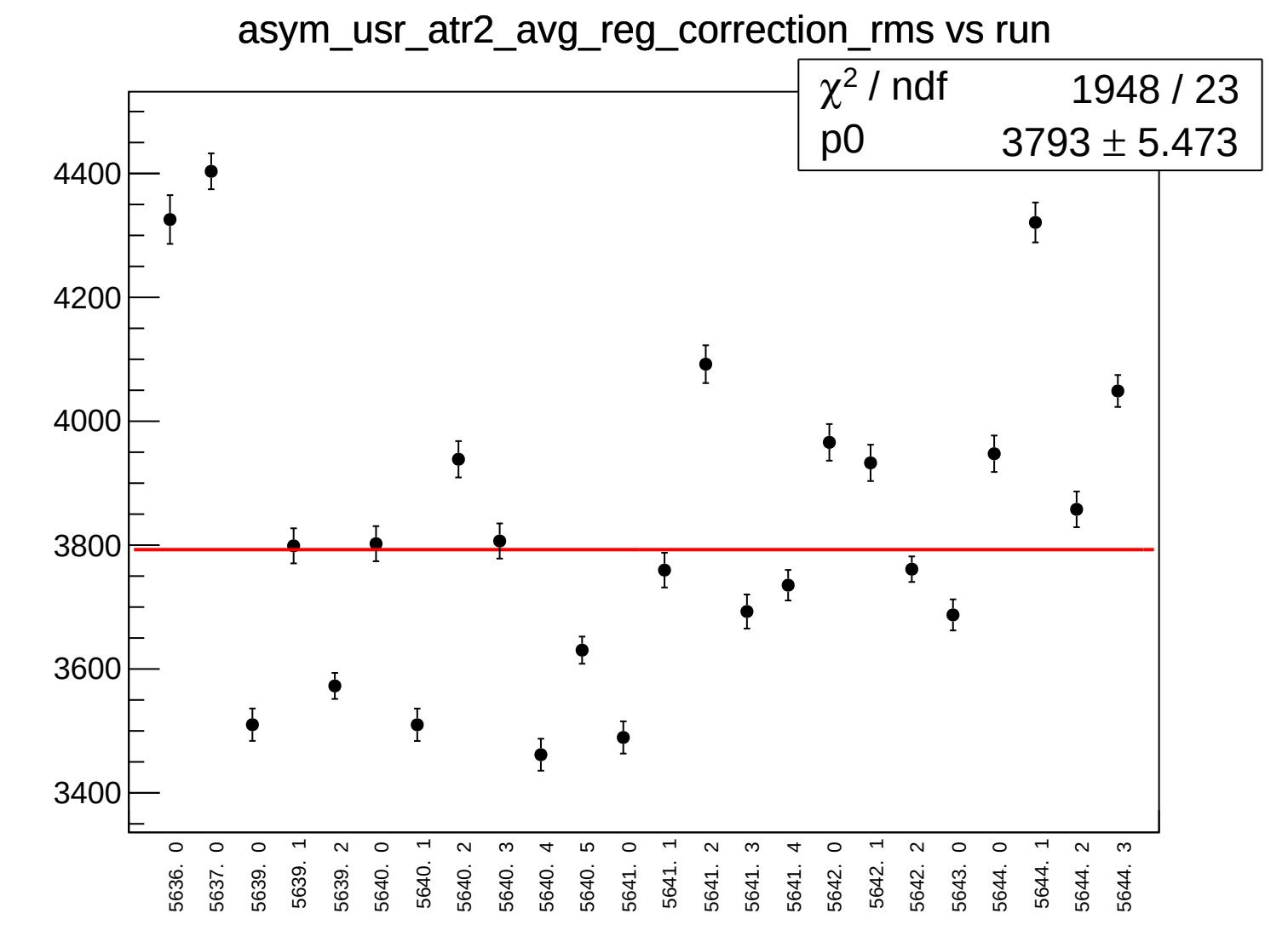

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 12.77 / 23
p0 1364 ± 2662
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 75.08
Std Dev 0
1
0.5
0
−0.5
−1

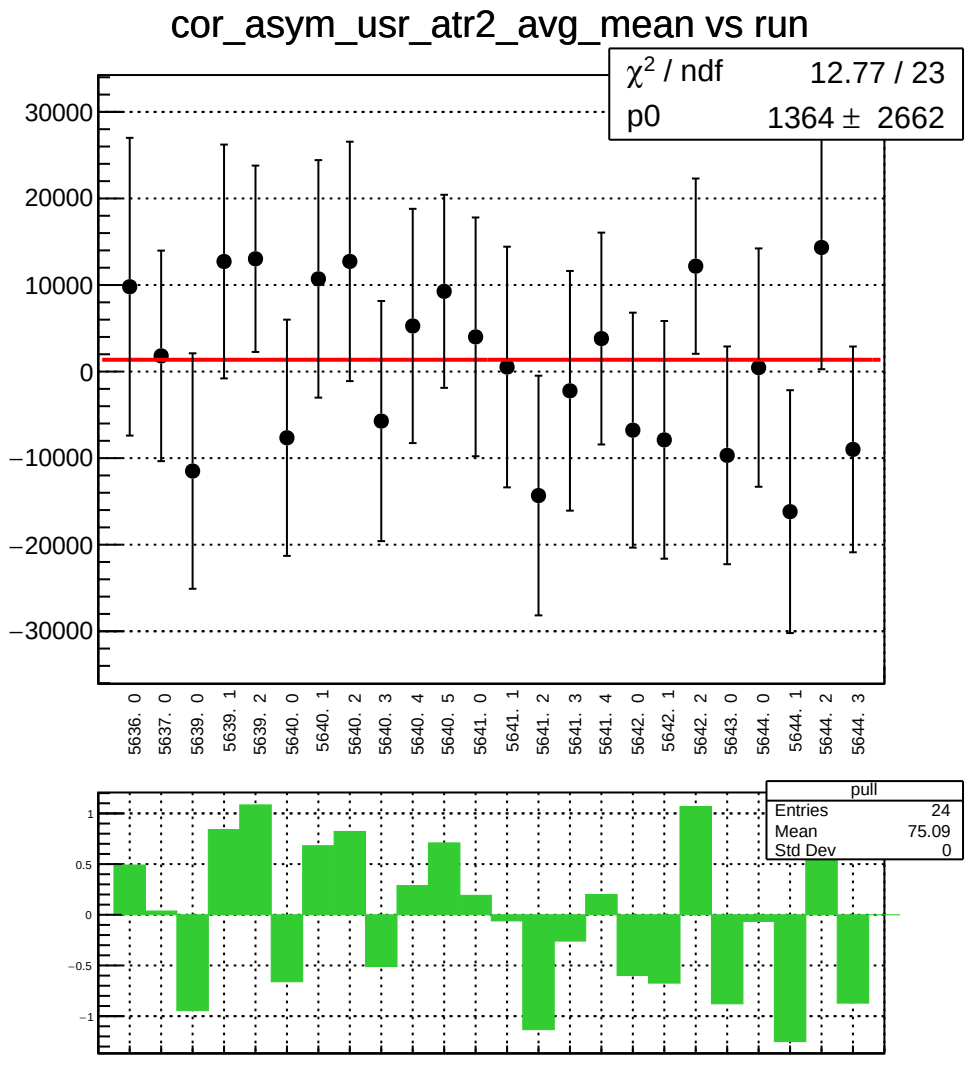

pull1D
Entries 24
Mean −0.02382
Std Dev 0.7291
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

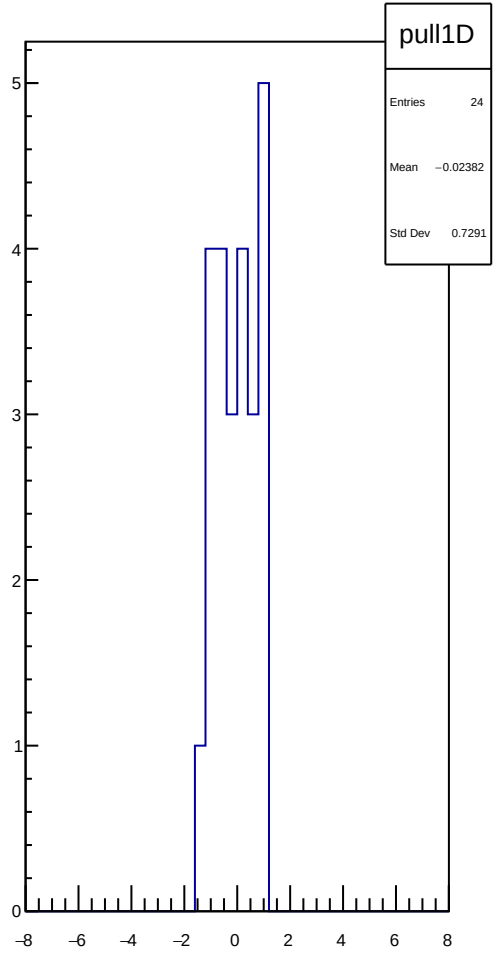

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 51.52 / 23
p0 1307 ± 1.882
1350
1340
1330
1320
1310
1300
1290
1280
1270
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

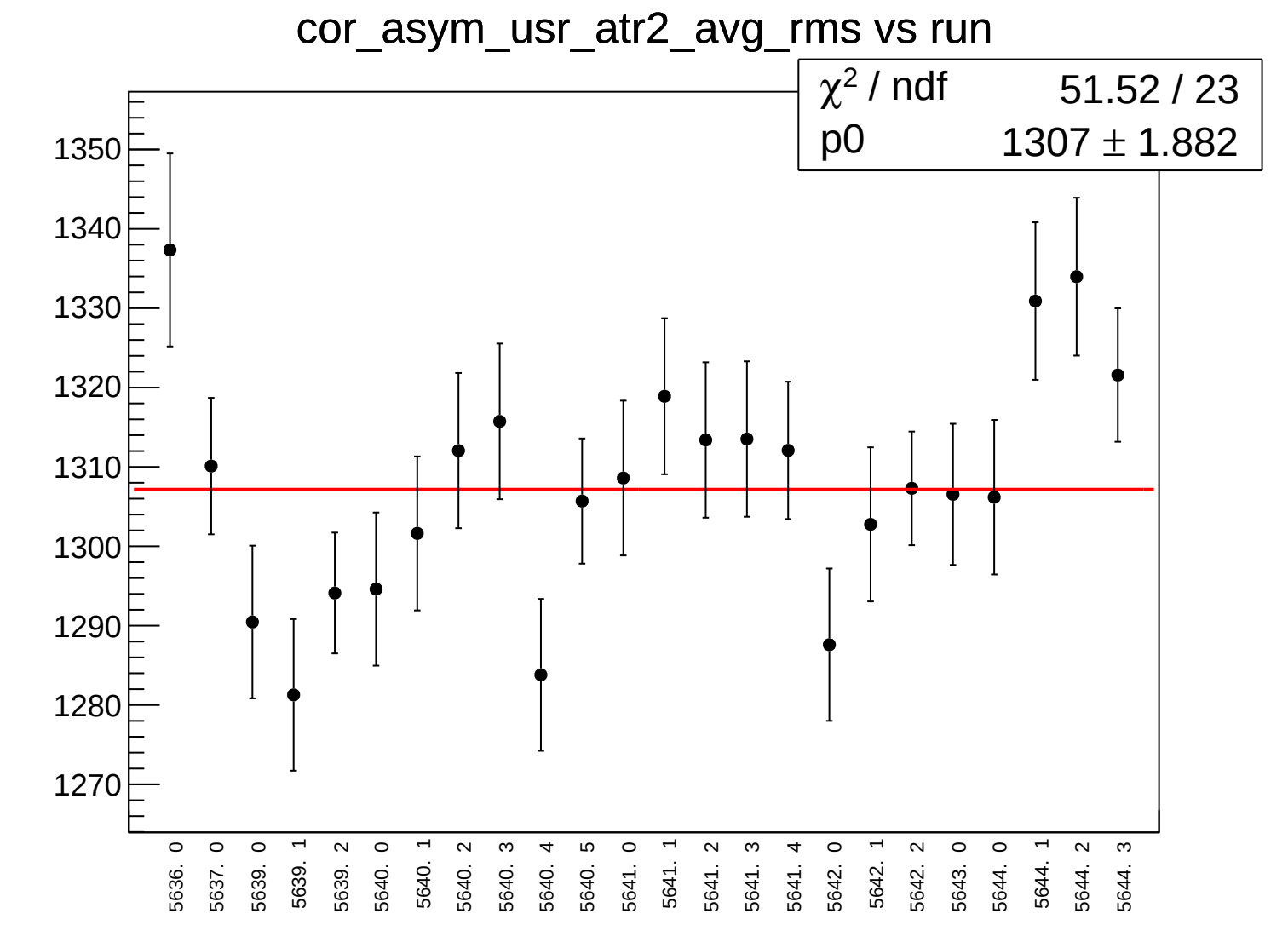

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 27.4 / 23
p0 −2205 ± 7739
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −39
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

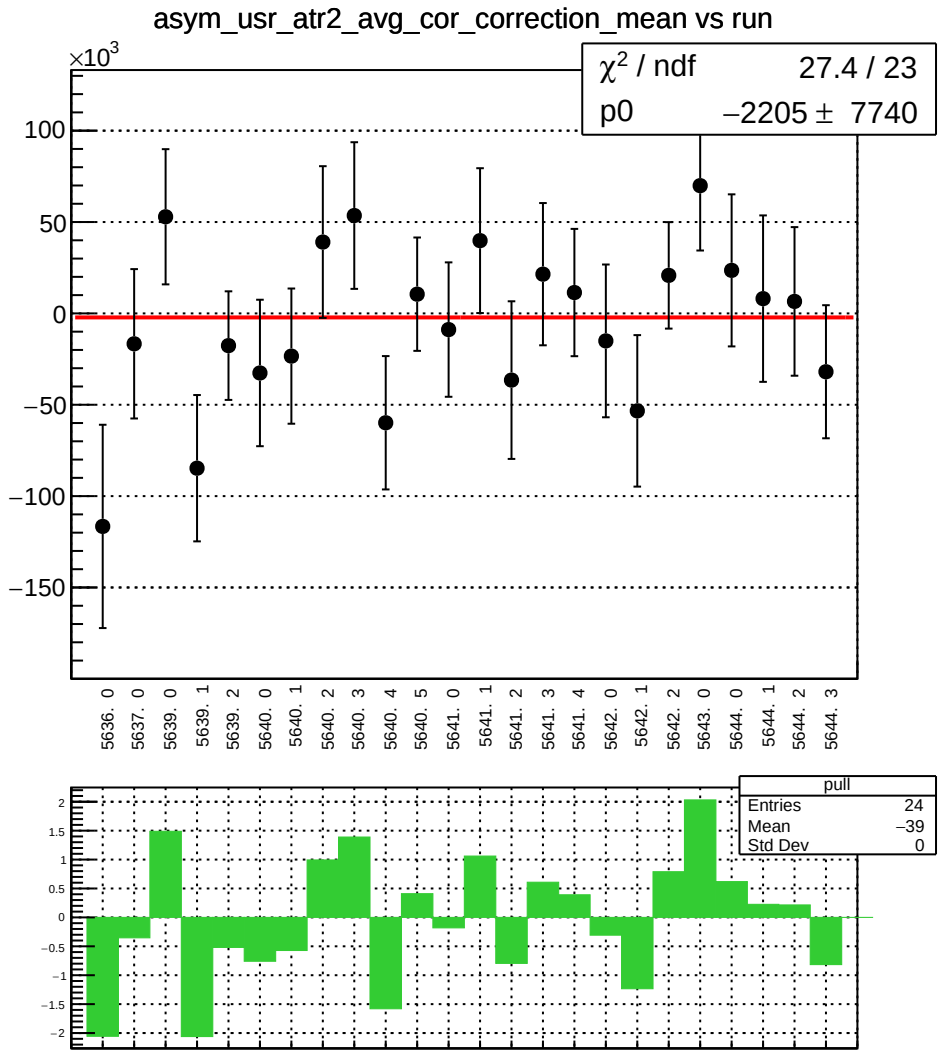

pull1D
Entries 24
Mean −0.04207
Std Dev 1.068
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

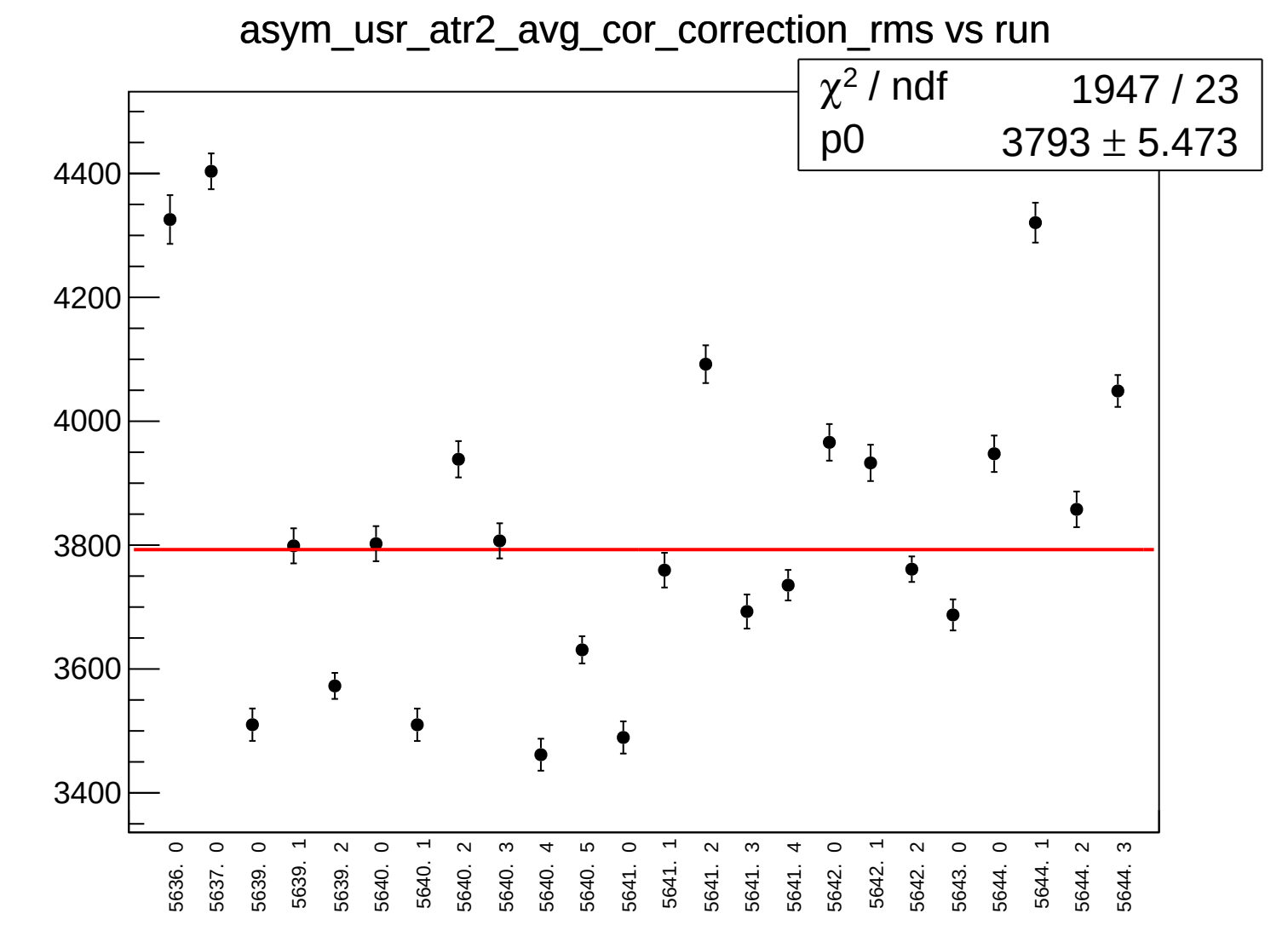

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 1948 / 23
p0 3793 ± 5.473
4400
4200
4000
3800
3600
3400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

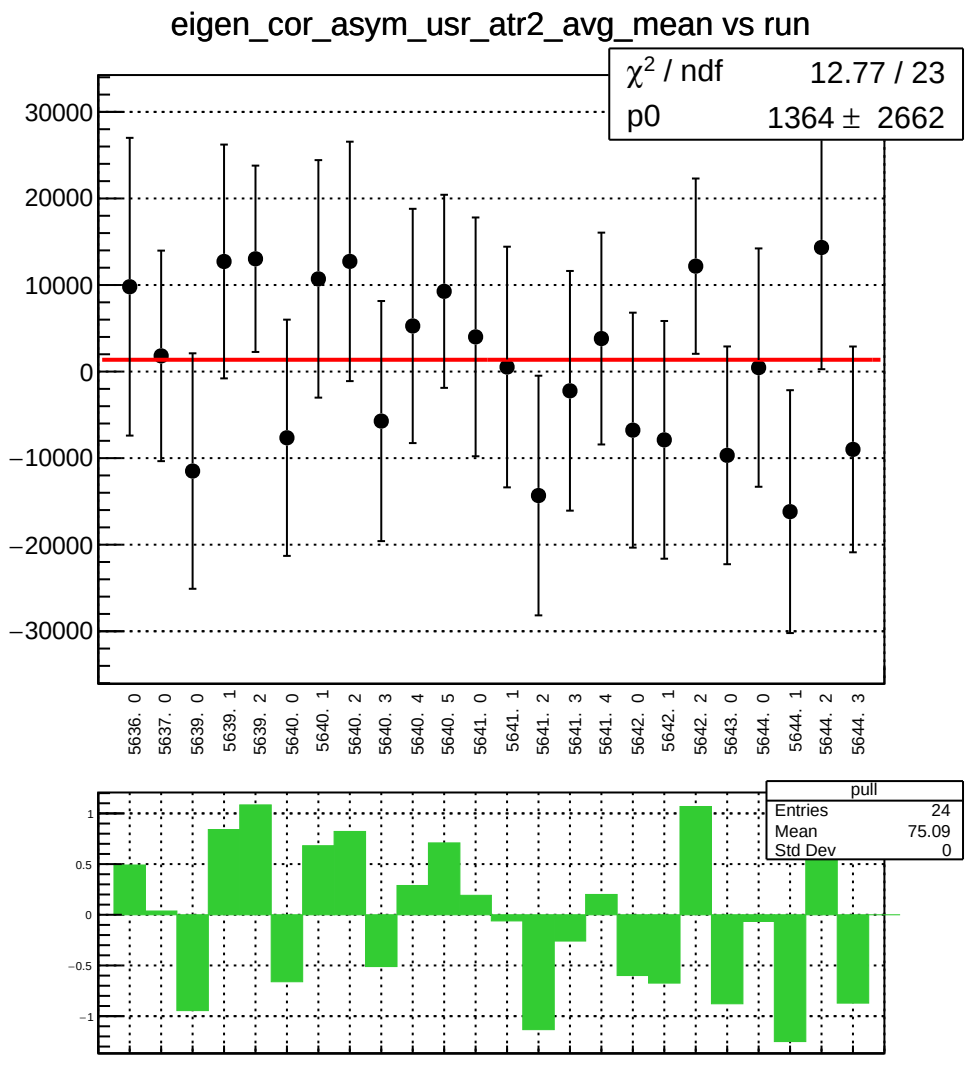

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 12.77 / 23
p0 1364 ± 2662
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 75.09
Std Dev 0
1
0.5
0
−0.5
−1

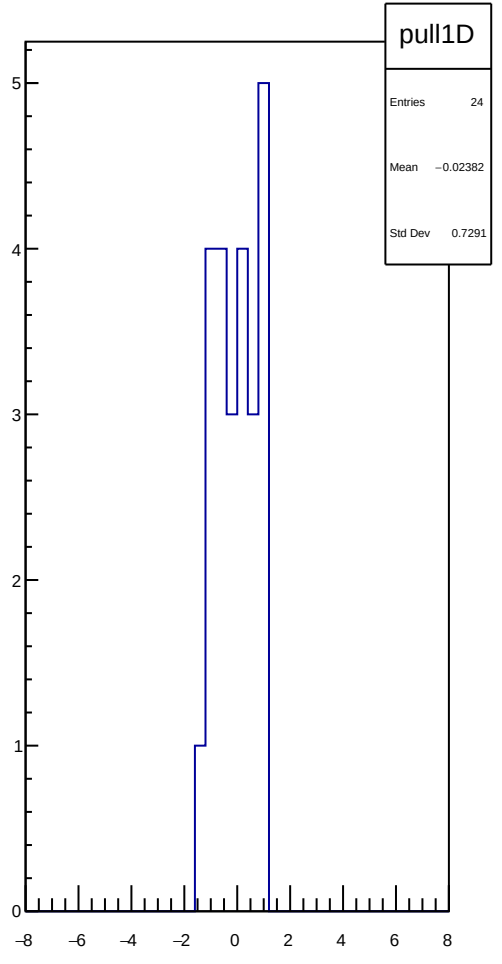

pull1D
Entries 24
Mean −0.02382
Std Dev 0.7291
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

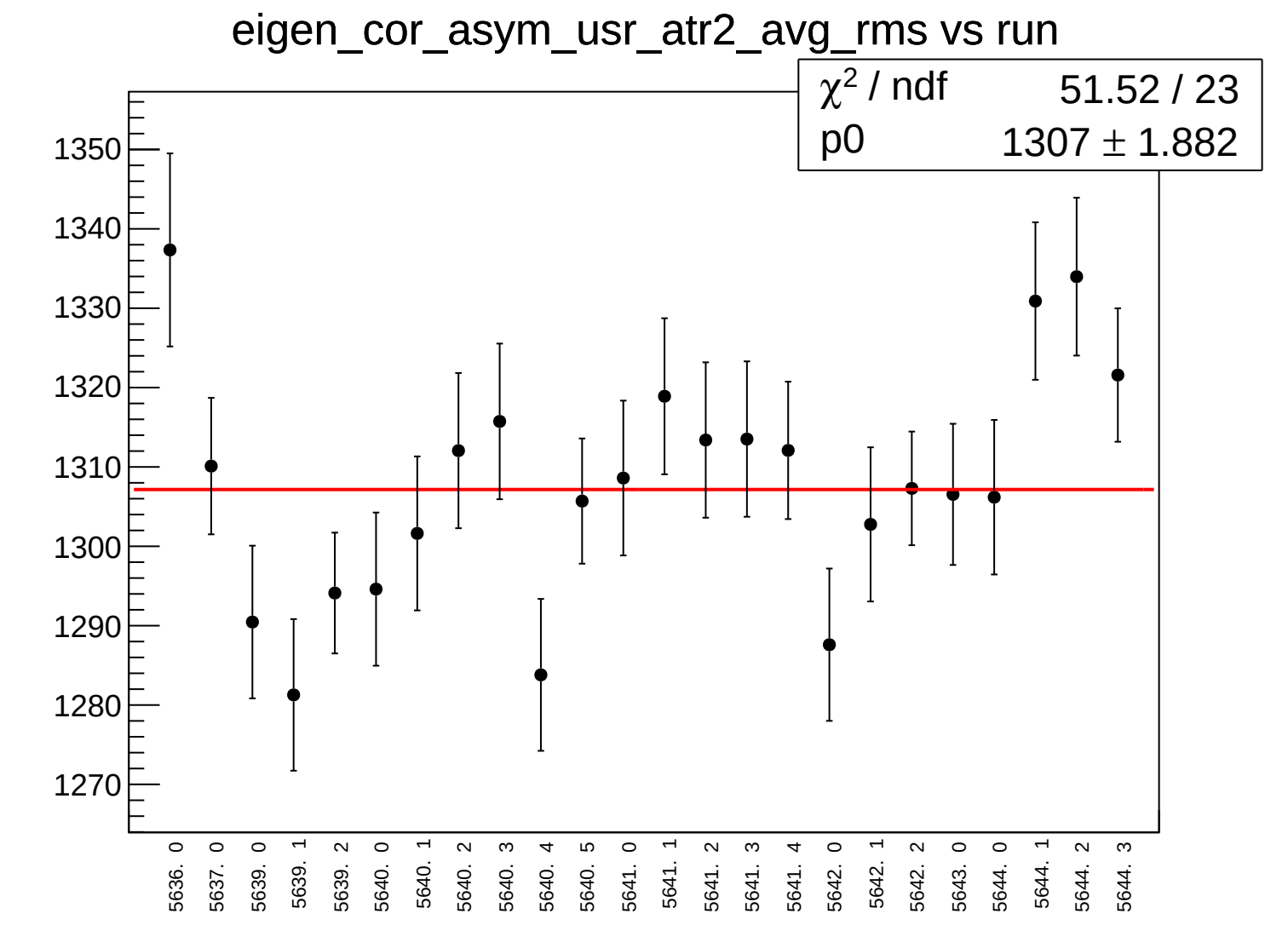

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 51.52 / 23
p0 1307 ± 1.882
1350
1340
1330
1320
1310
1300
1290
1280
1270
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

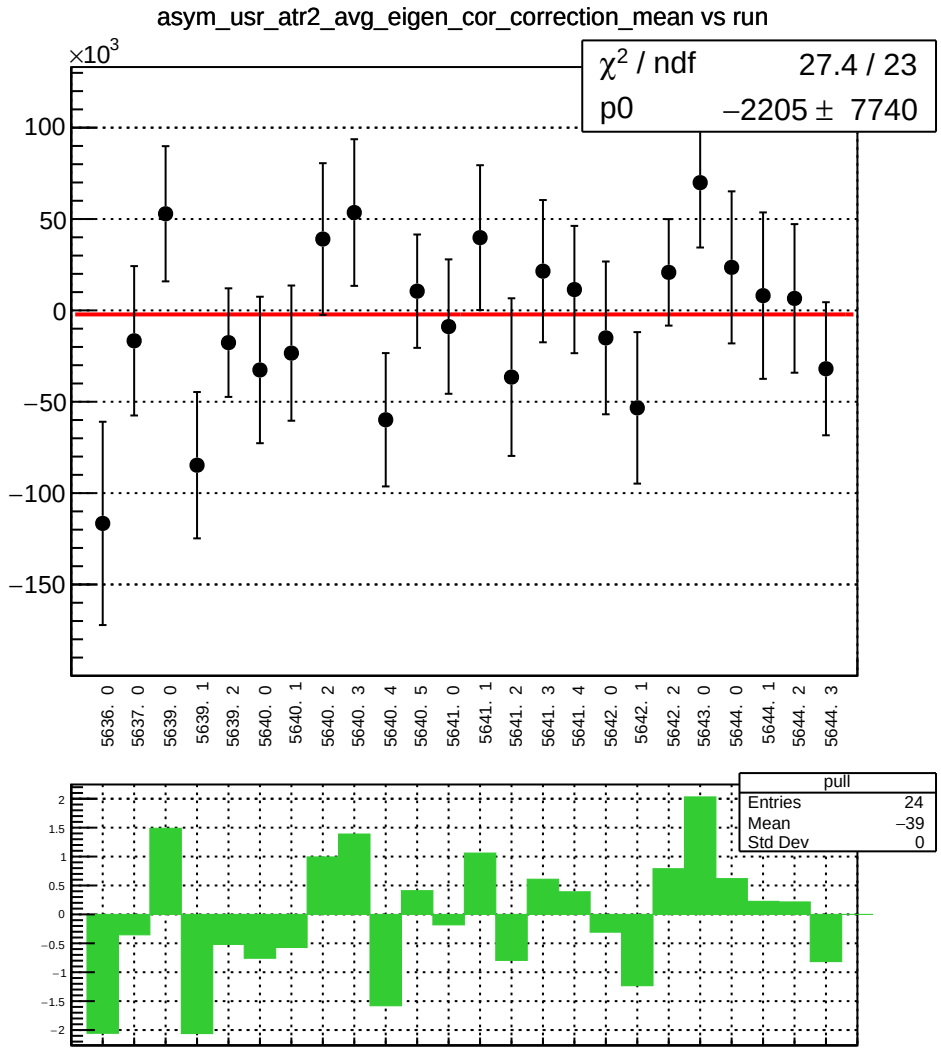

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 27.4 / 23
p0 −2205 ± 7740
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −39
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.04207
Std Dev 1.068
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

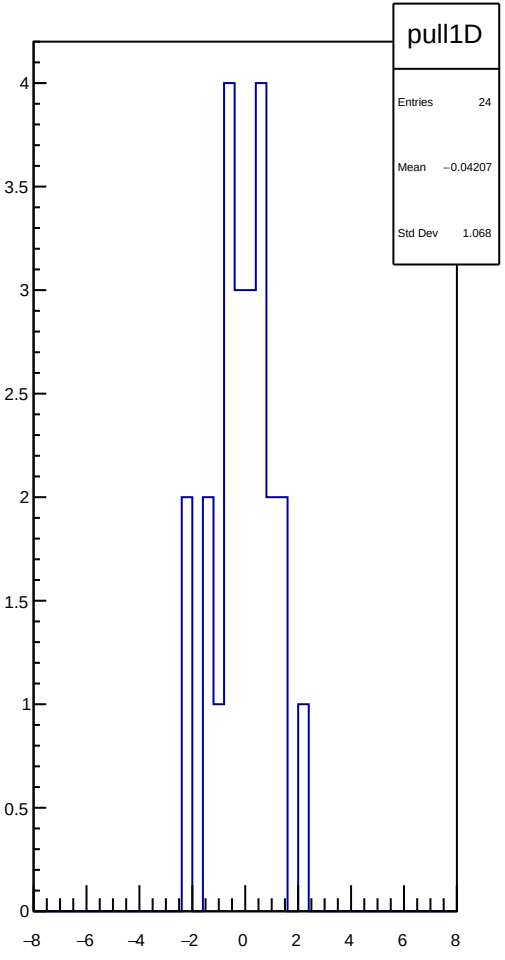

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 1947 / 23
p0 3793 ± 5.473
4400
4200
4000
3800
3600
3400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

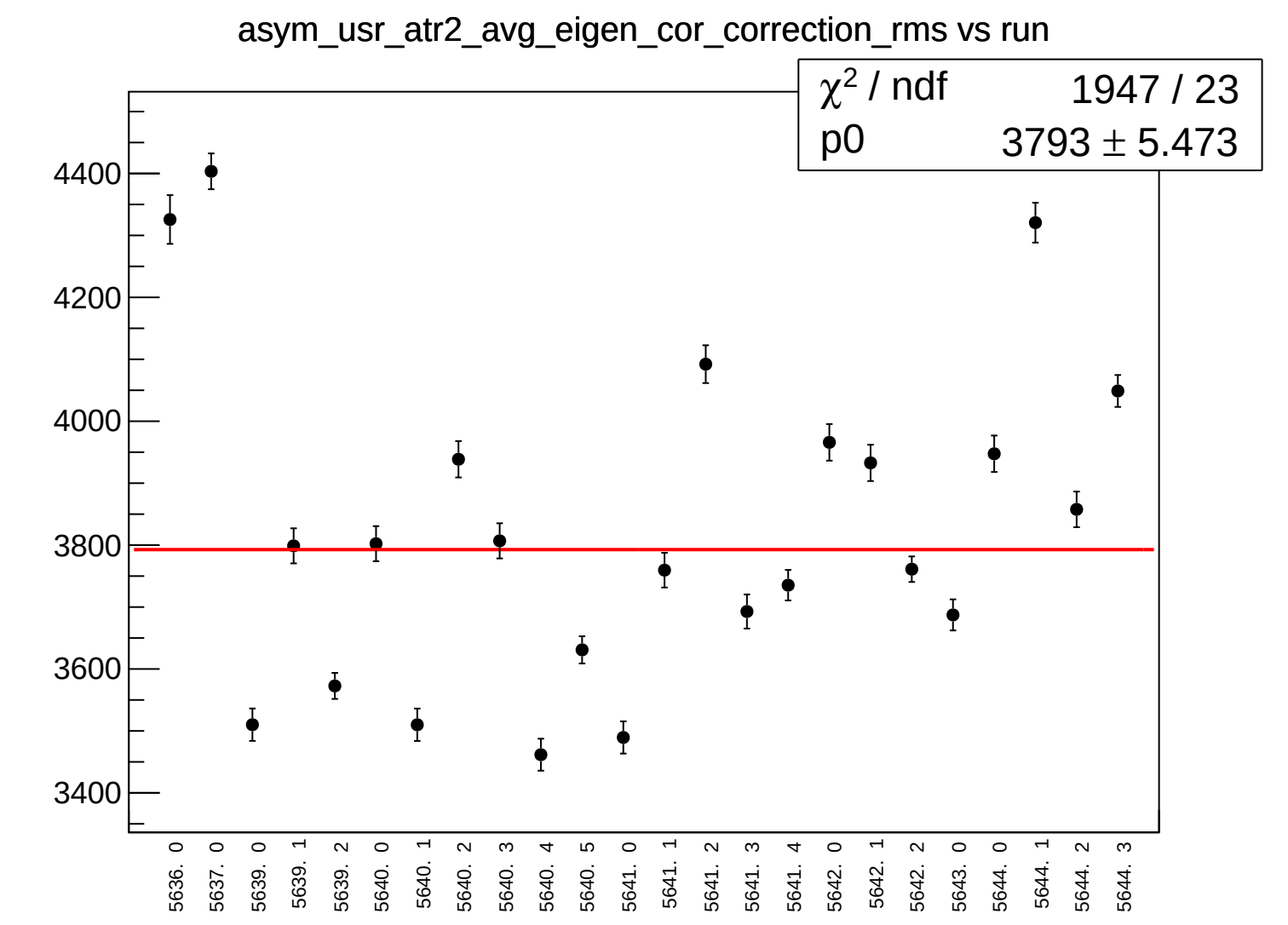

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 12.77 / 23
p0 1364 ± 2662
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 75.09
Std Dev 0
1
0.5
0
−0.5
−1

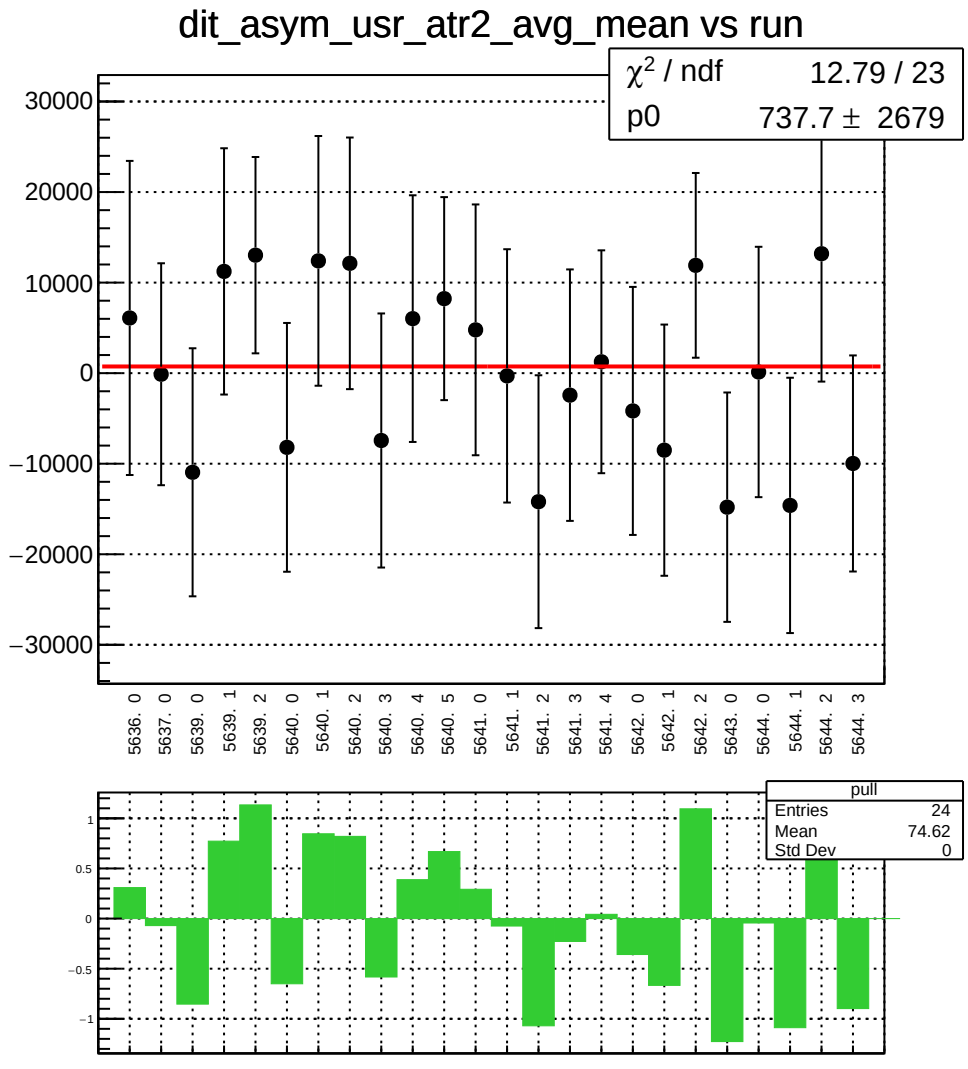

pull1D
Entries 24
Mean −0.02382
Std Dev 0.7291
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

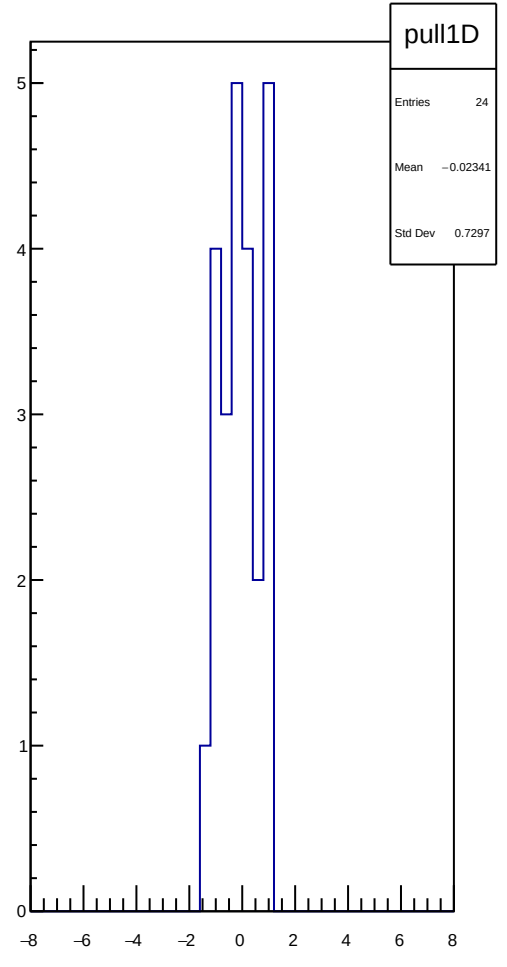

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 51.52 / 23
p0 1307 ± 1.882
1350
1340
1330
1320
1310
1300
1290
1280
1270
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

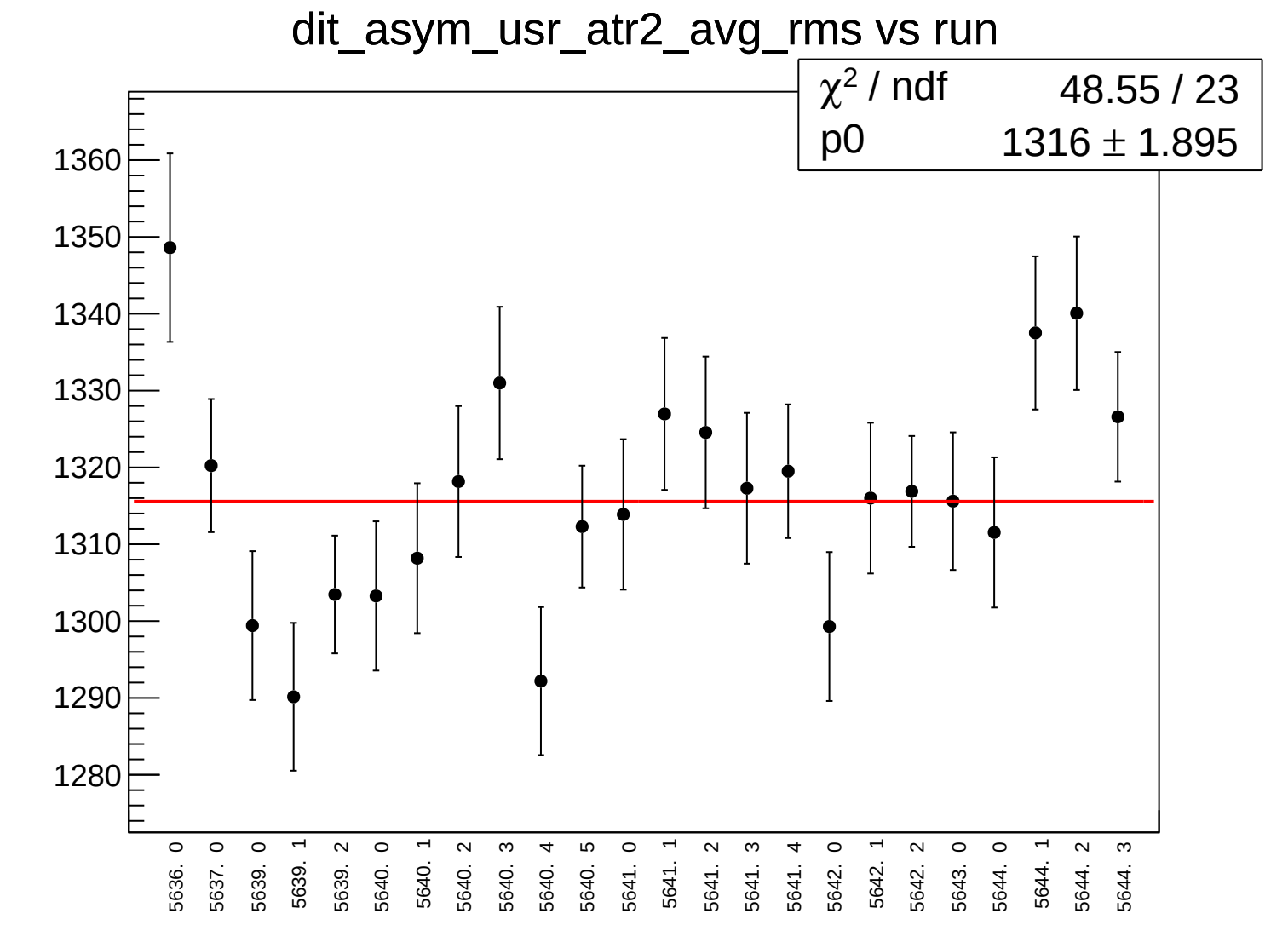

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 27.4 / 23
p0 −2205 ± 7740
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −39
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

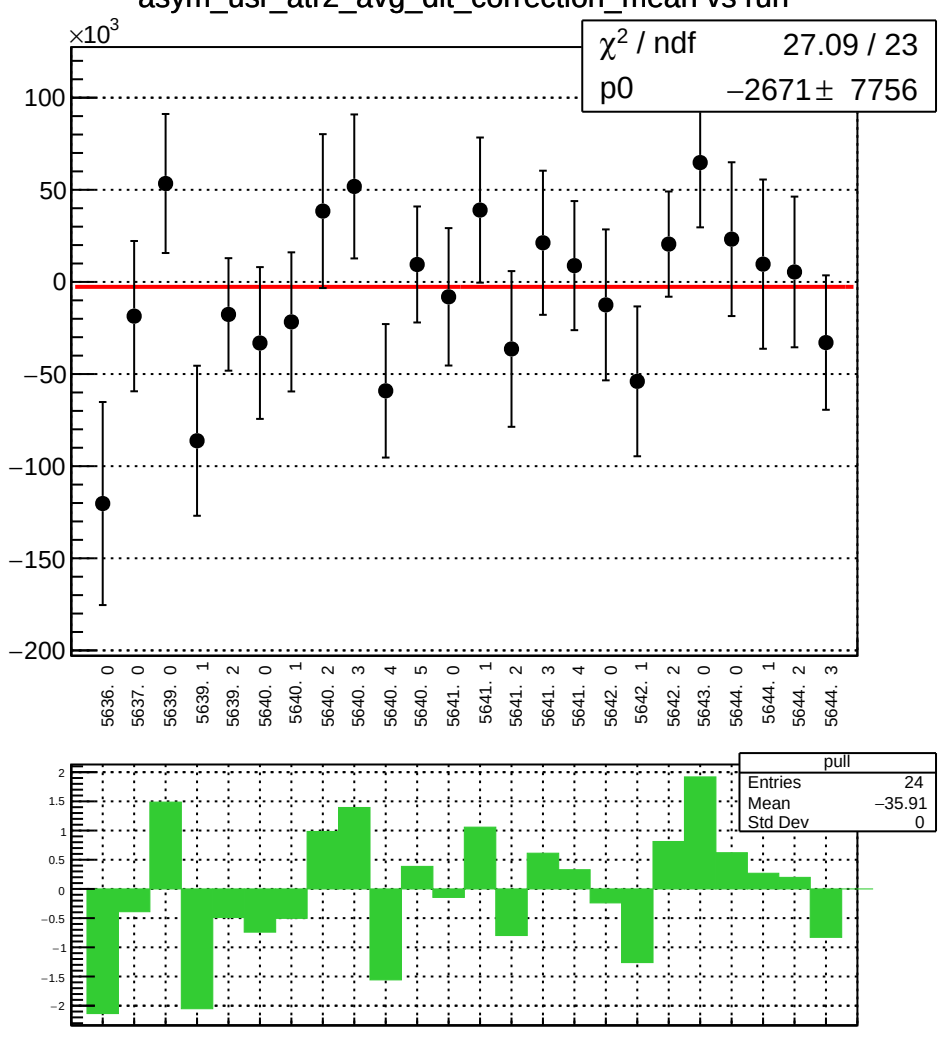

pull1D
Entries 24
Mean −0.04207
Std Dev 1.068
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

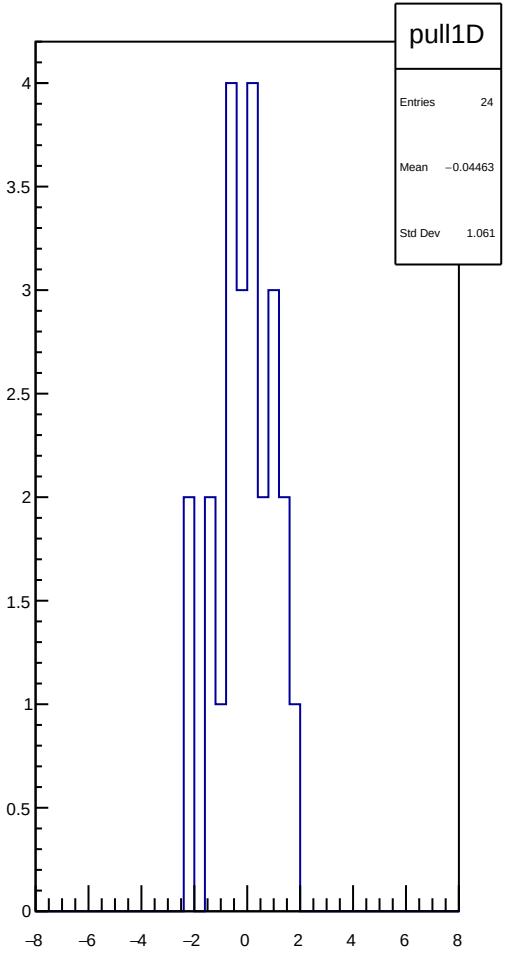

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1947 / 23
p0 3793 ± 5.473
4400
4200
4000
3800
3600
3400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

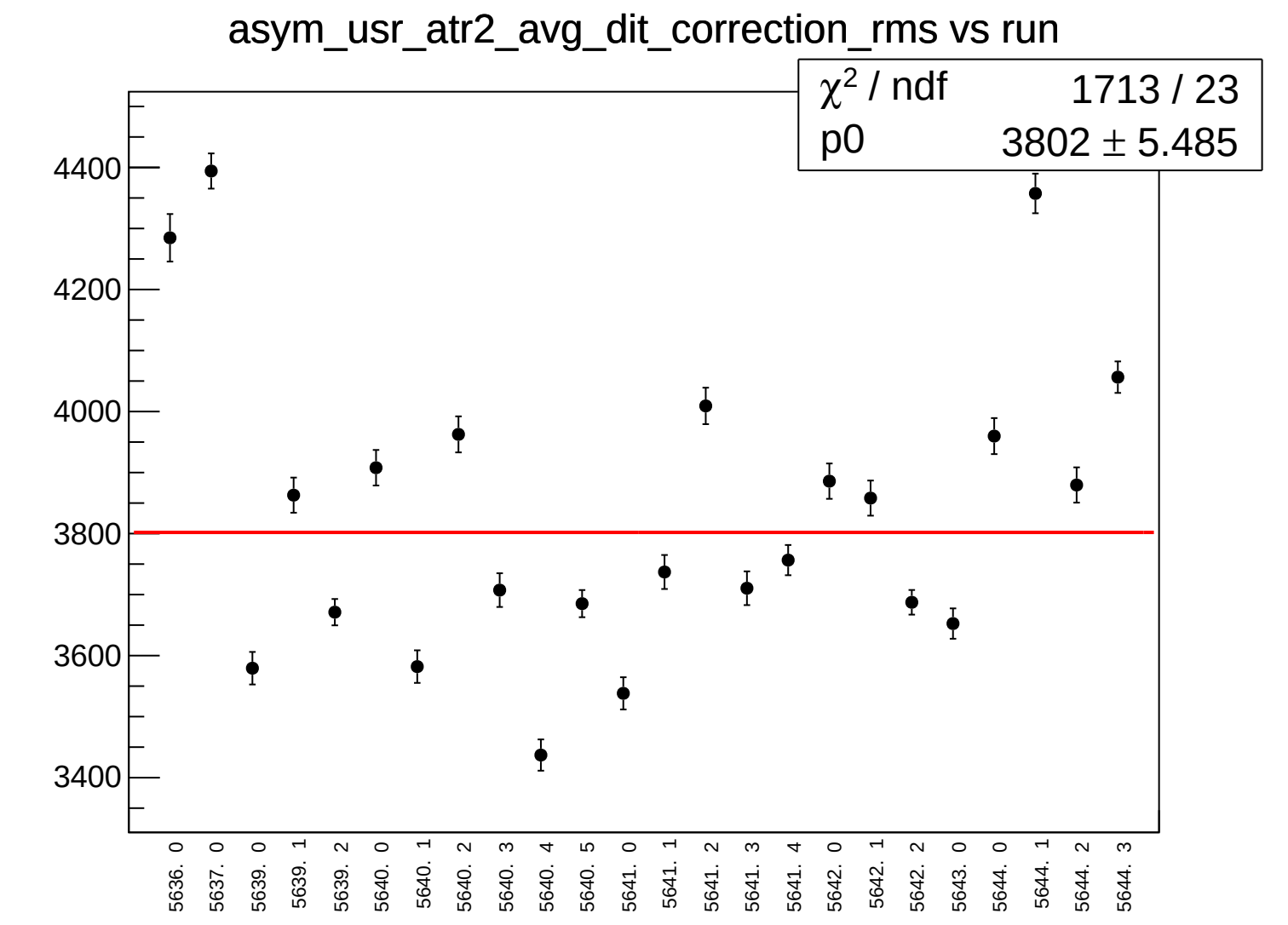

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 12.79 / 23
p0 737.7 ± 2679
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 74.62
Std Dev 0
1
0.5
0
−0.5
−1

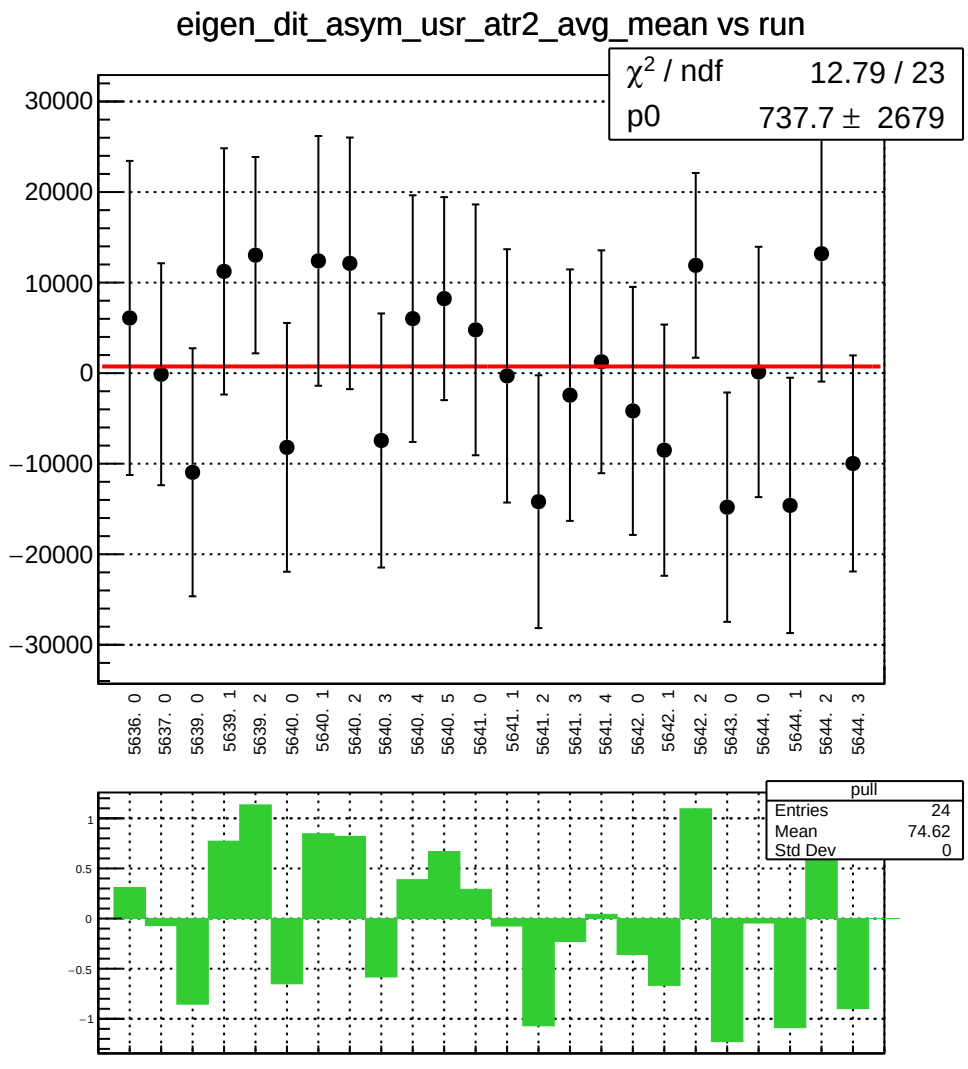

pull1D
Entries 24
Mean −0.02341
Std Dev 0.7297
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

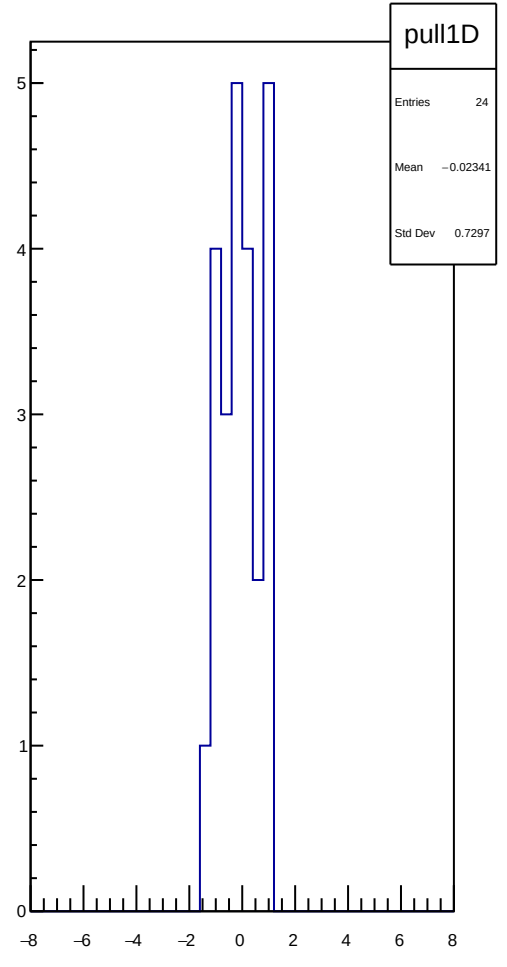

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 48.55 / 23
p0 1316 ± 1.895
1360
1350
1340
1330
1320
1310
1300
1290
1280
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

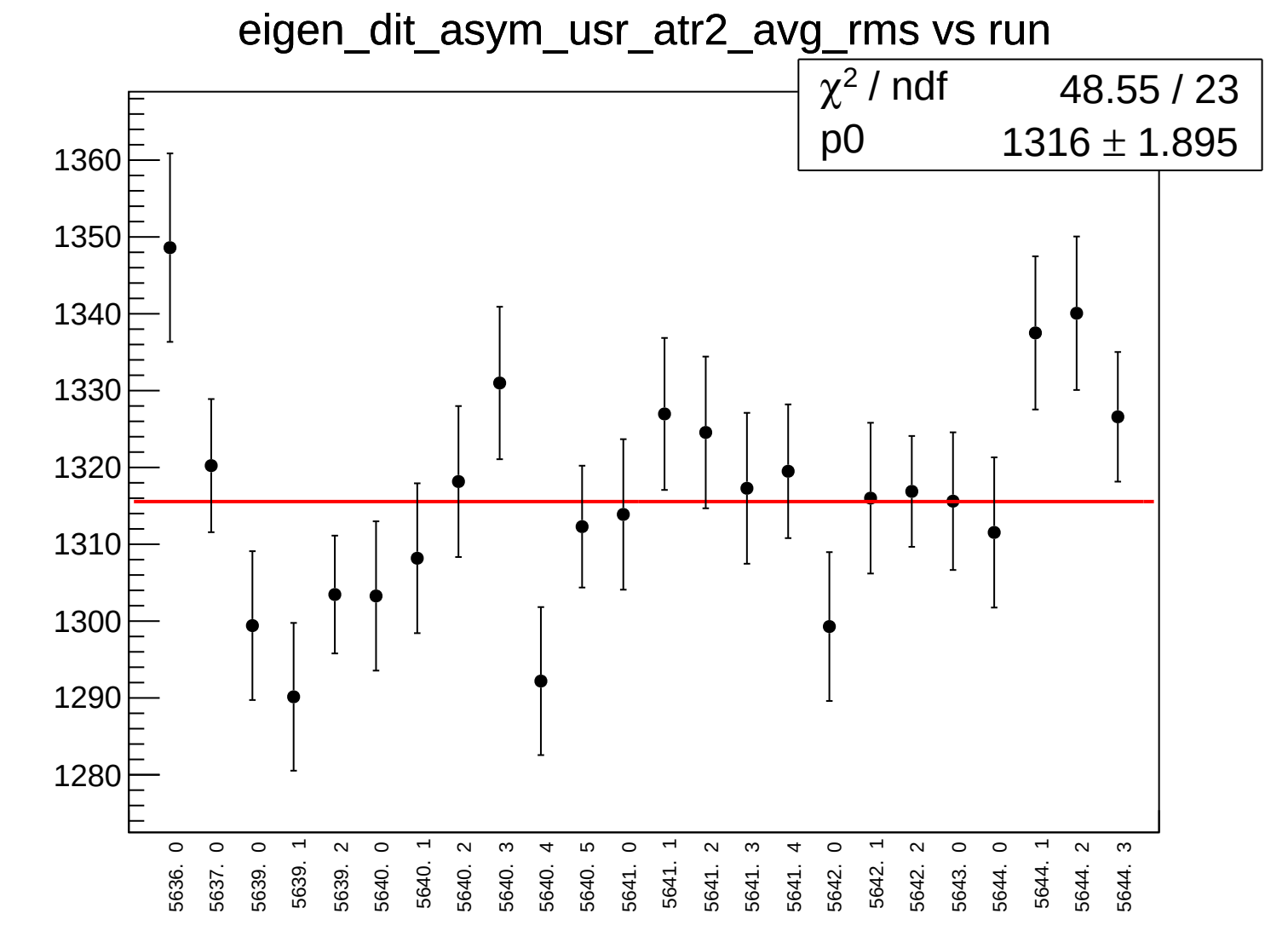

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 27.09 / 23
p0 −2671 ± 7756
100
50
0
−50
−100
−150
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −35.91
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

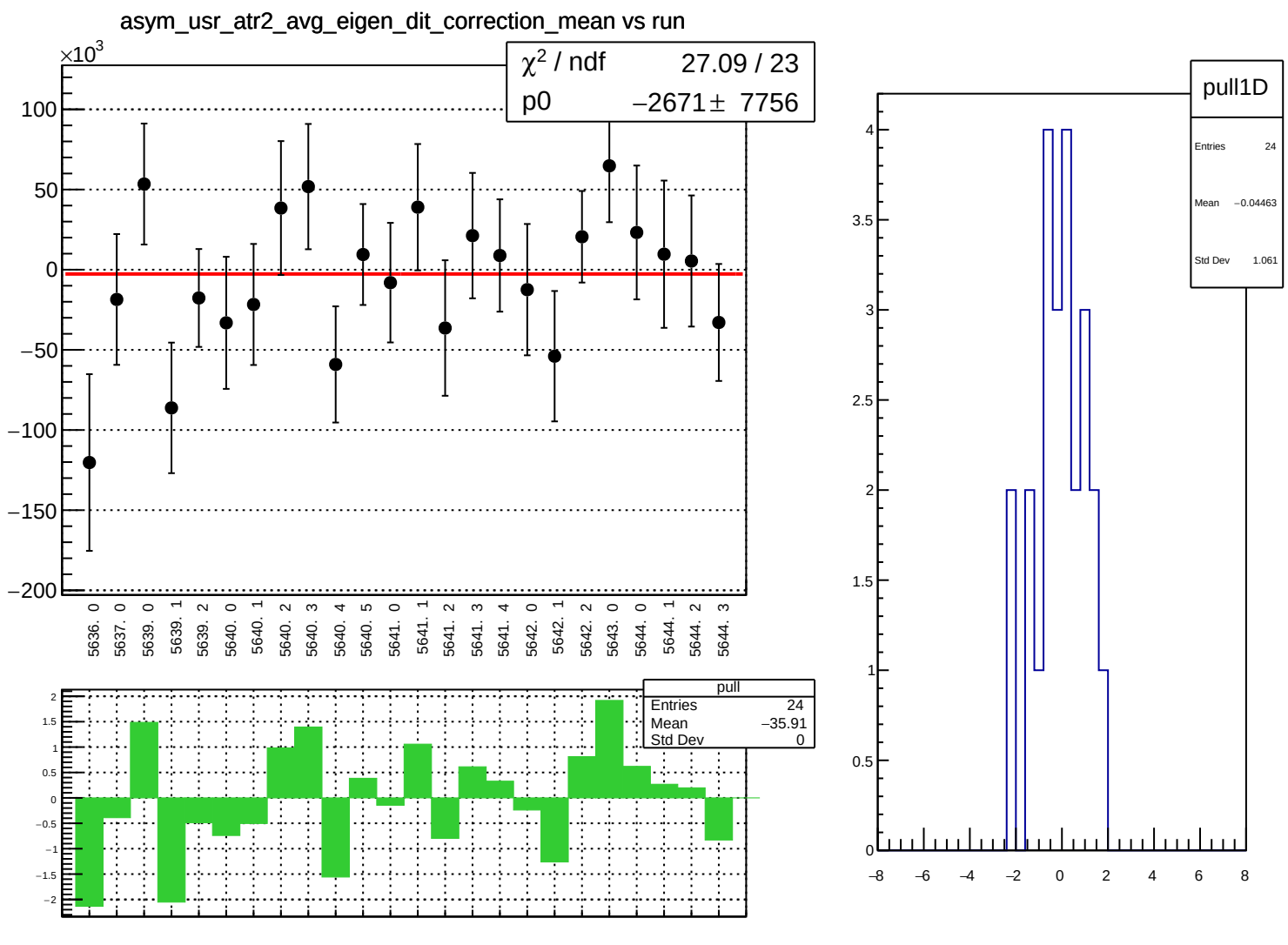

pull1D
Entries 24
Mean −0.04463
Std Dev 1.061
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

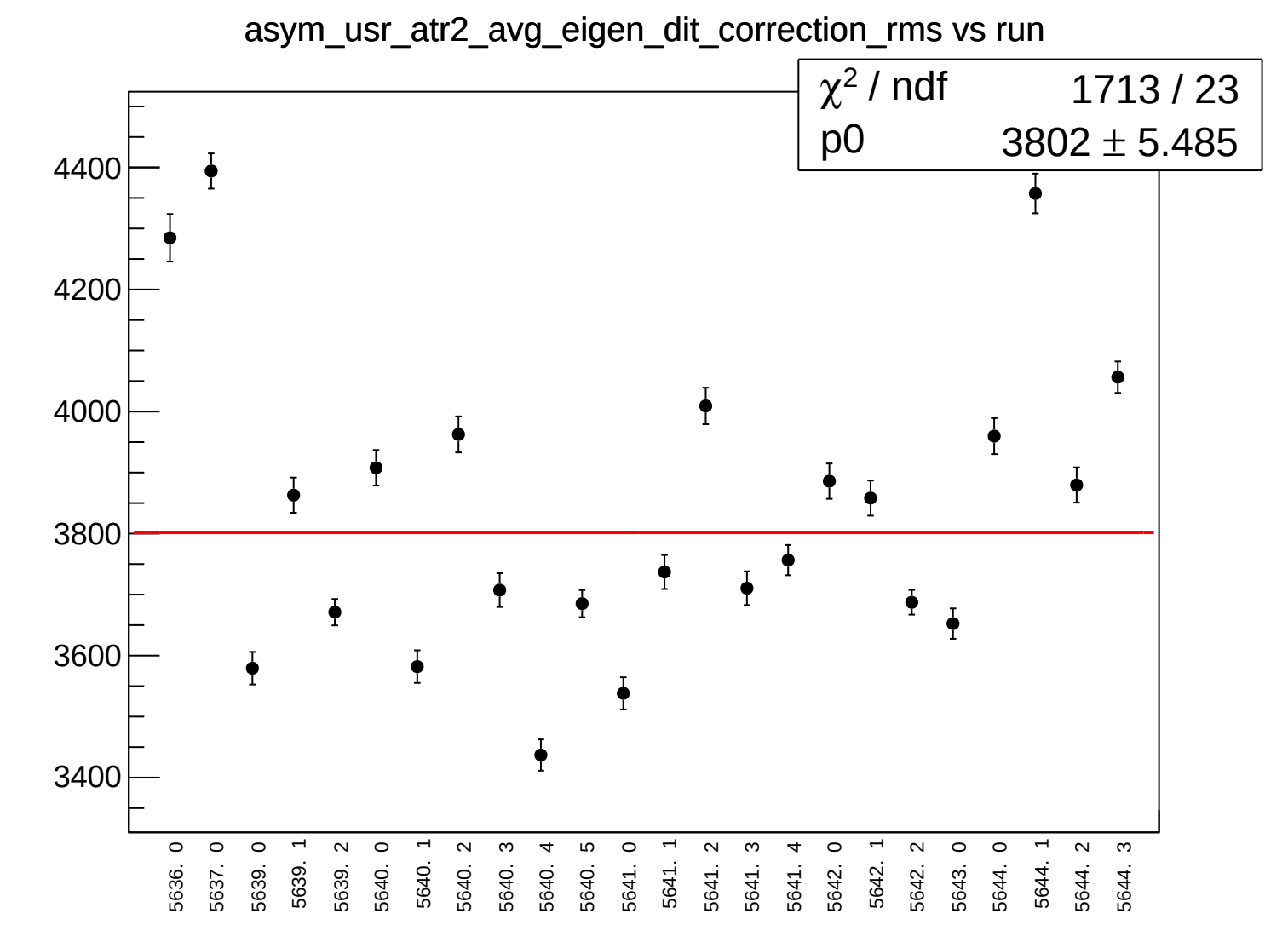

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 1713 / 23
p0 3802 ± 5.485
4400
4200
4000
3800
3600
3400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

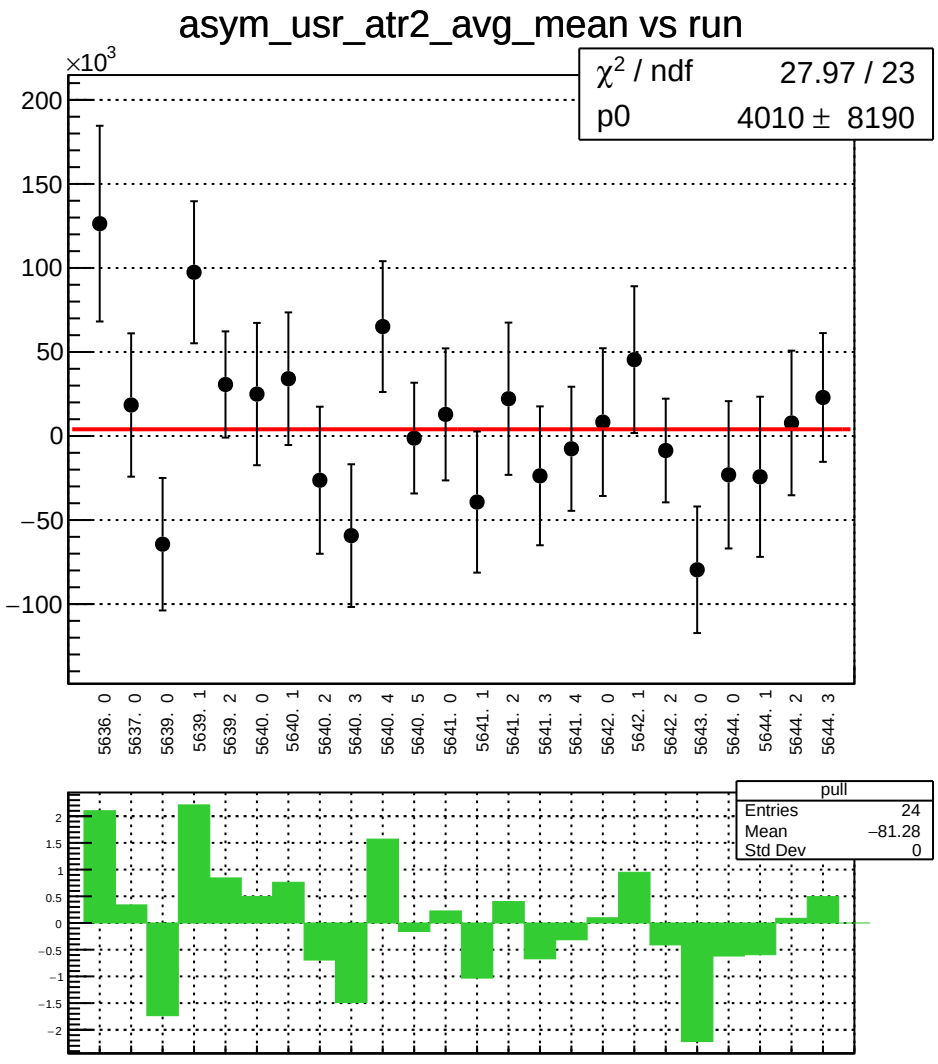

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 12.79 / 23
p0 737.7 ± 2679
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 74.62
Std Dev 0
1
0.5
0
−0.5
−1

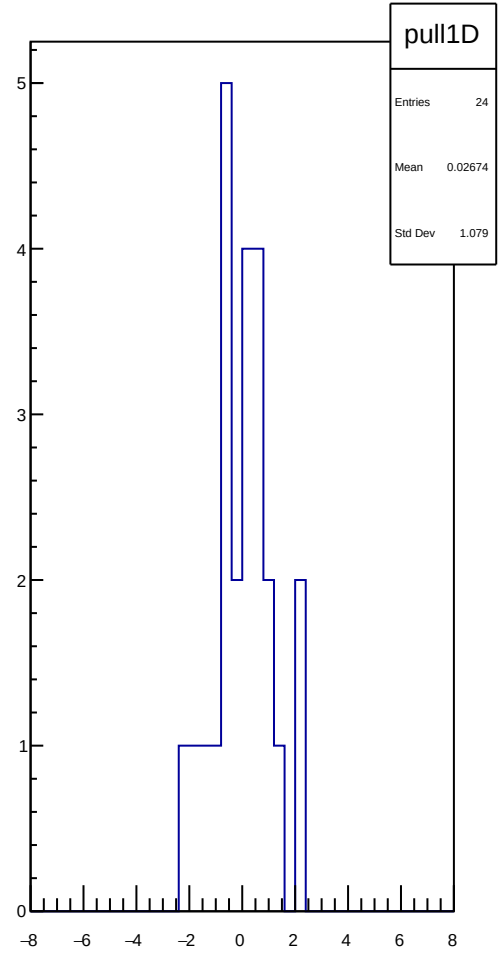

pull1D
Entries 24
Mean −0.02341
Std Dev 0.7297
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

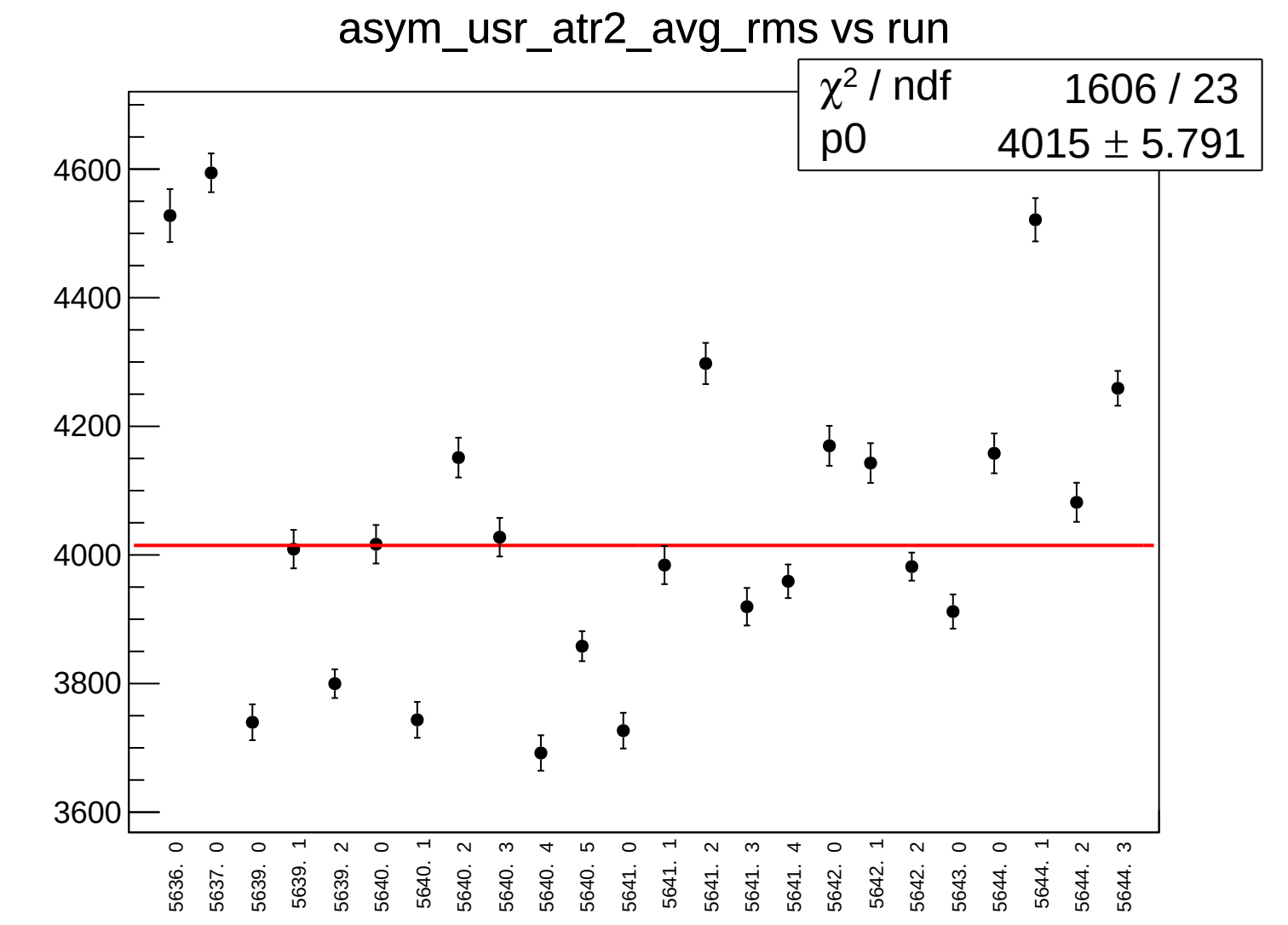

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 48.55 / 23
p0 1316 ± 1.895
1360
1350
1340
1330
1320
1310
1300
1290
1280
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

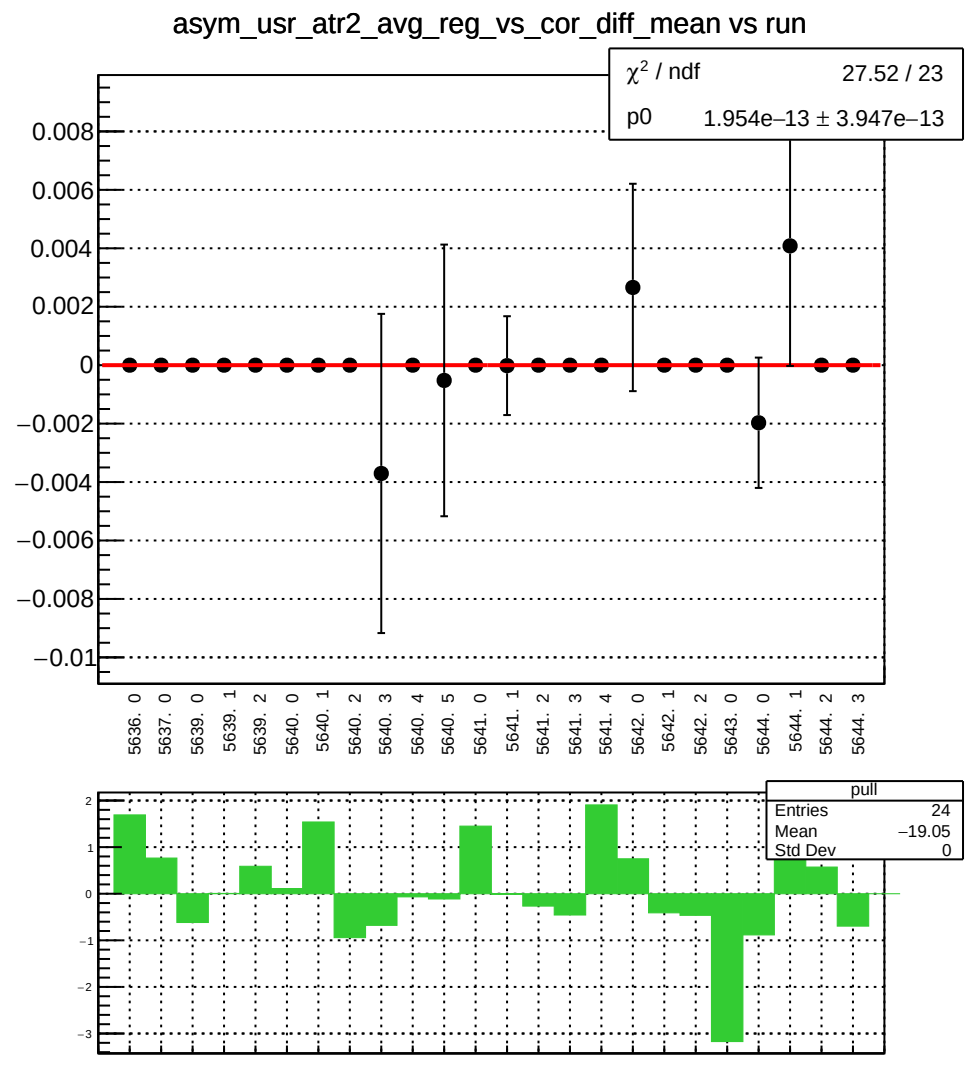

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 27.09 / 23
p0 −2671 ± 7756
100
50
0
−50
−100
−150
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −35.91
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.04463
Std Dev 1.061
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

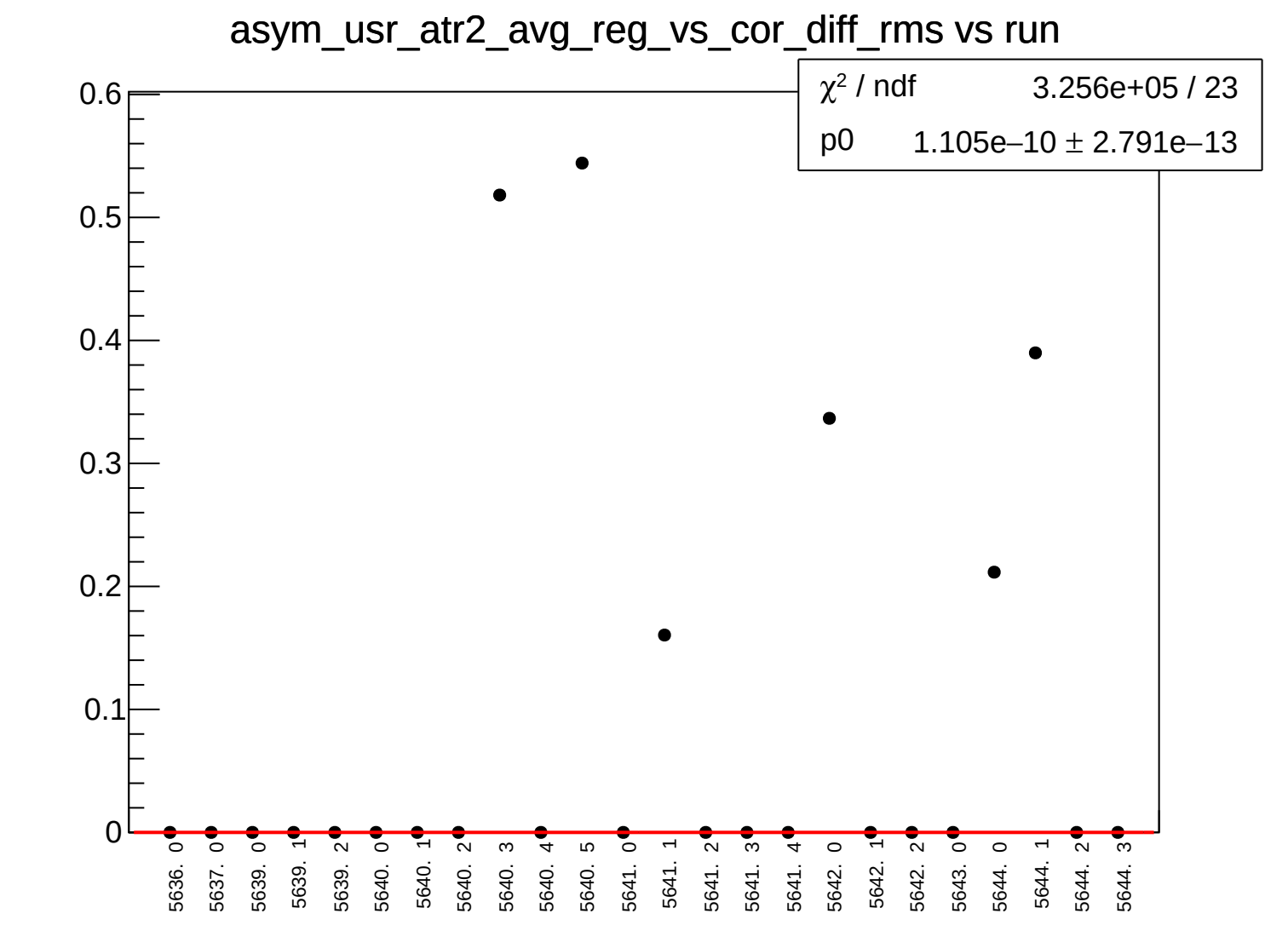

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1713 / 23
p0 3802 ± 5.485
4400
4200
4000
3800
3600
3400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

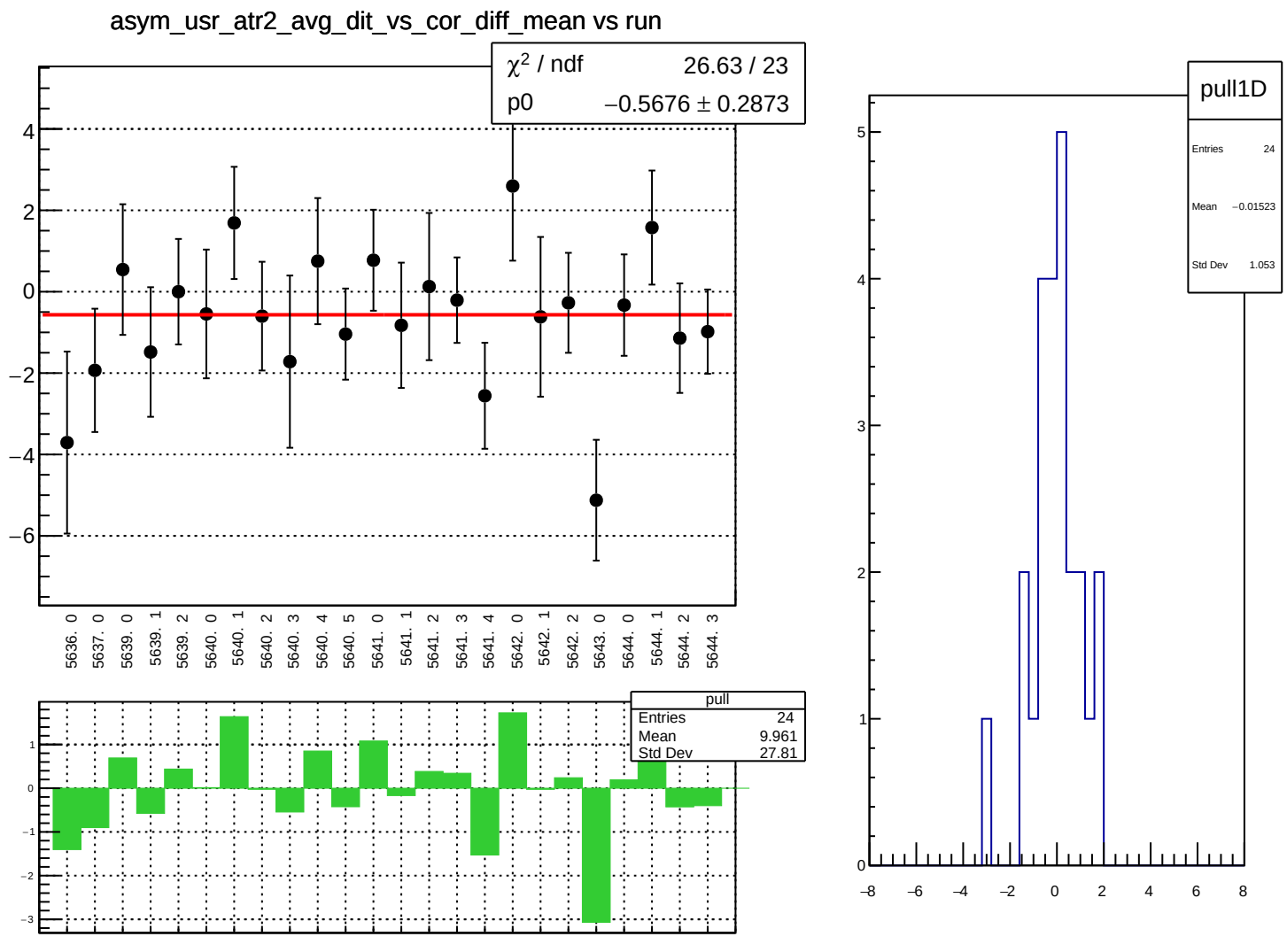

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 27.97 / 23
p0 4010 ± 8190
200
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −81.28
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

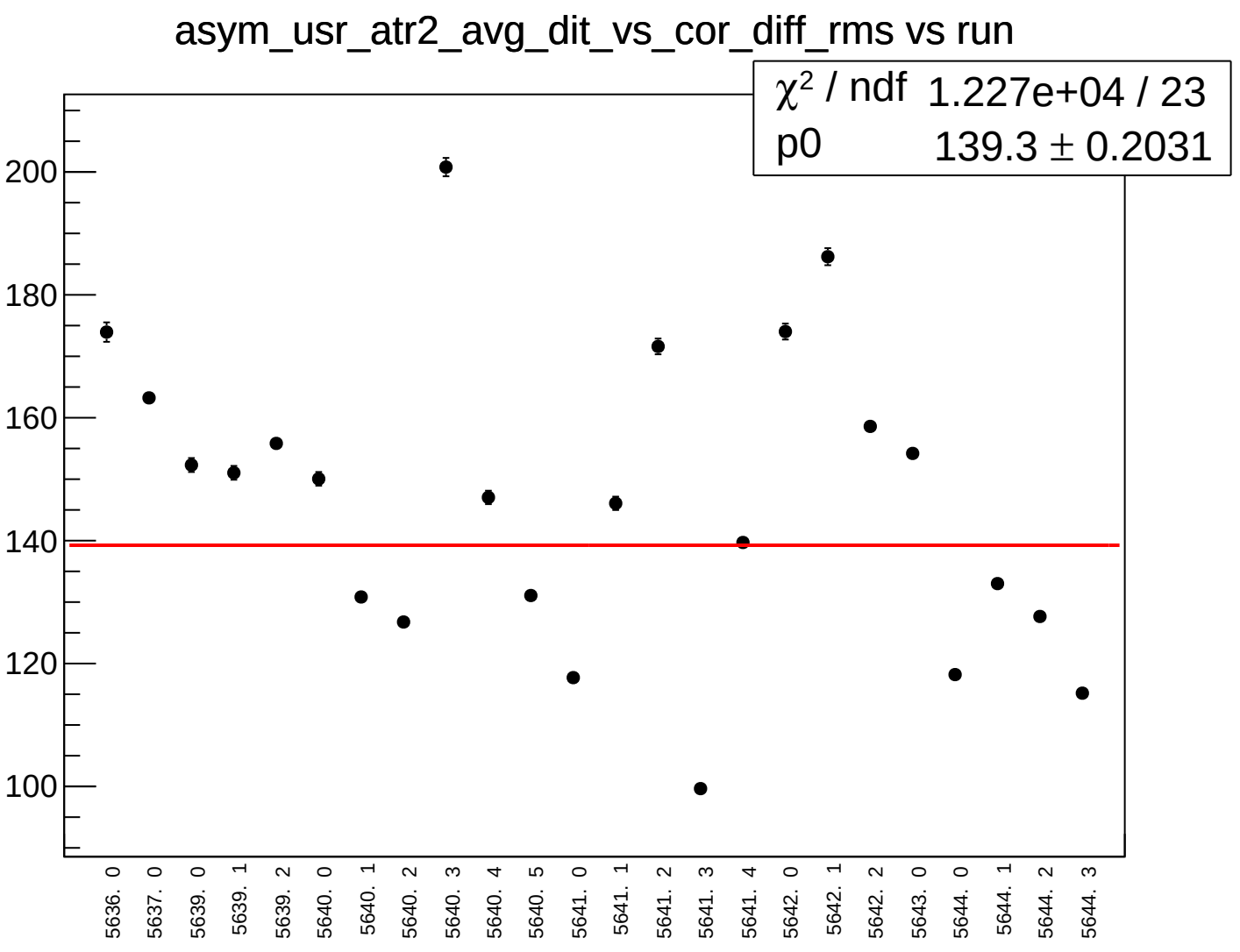

pull1D
Entries 24
Mean 0.02674
Std Dev 1.079
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

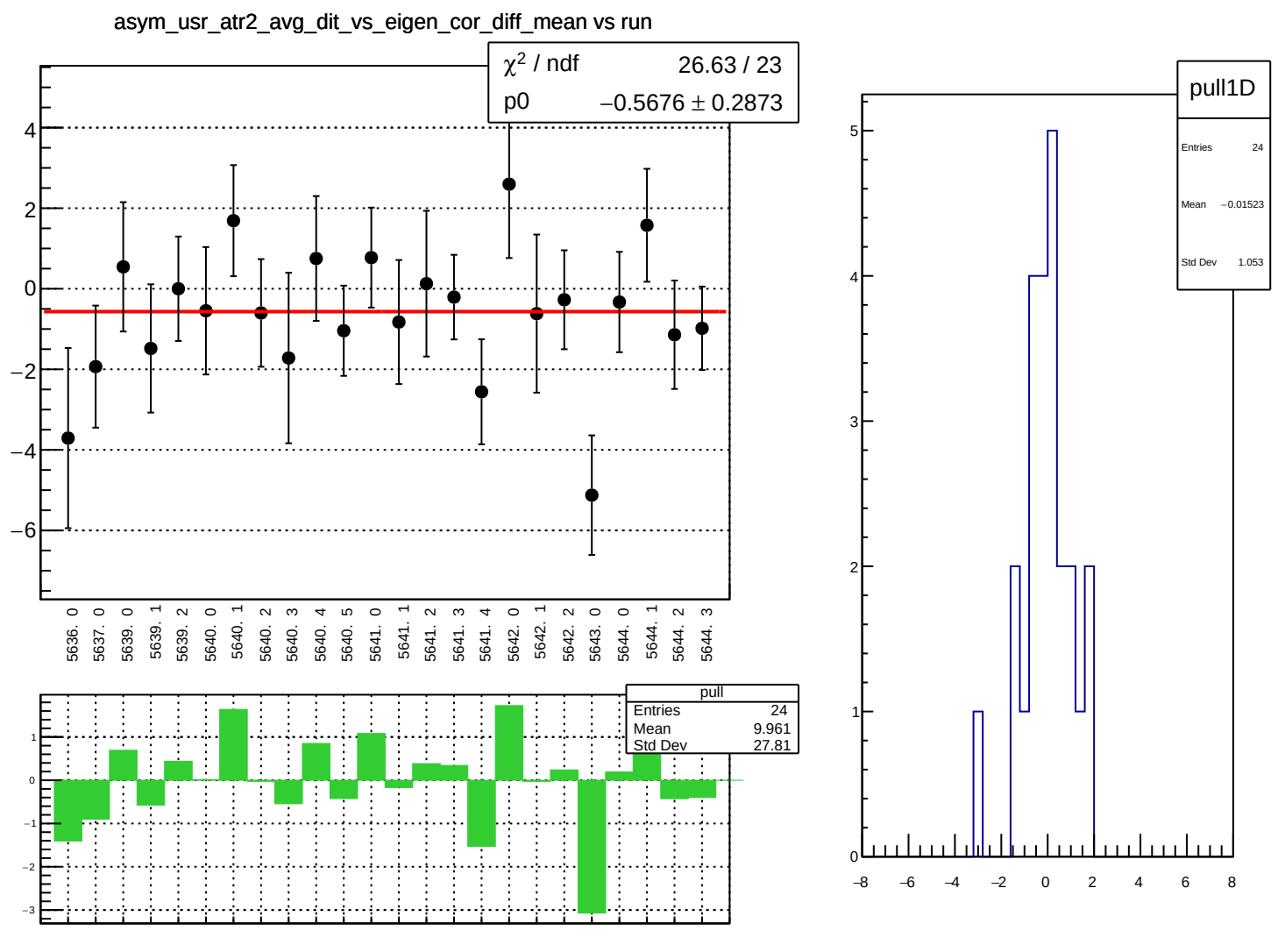

asym_usr_atr2_avg_rms vs run
χ² / ndf 1606 / 23
p0 4015 ± 5.791
4600
4400
4200
4000
3800
3600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

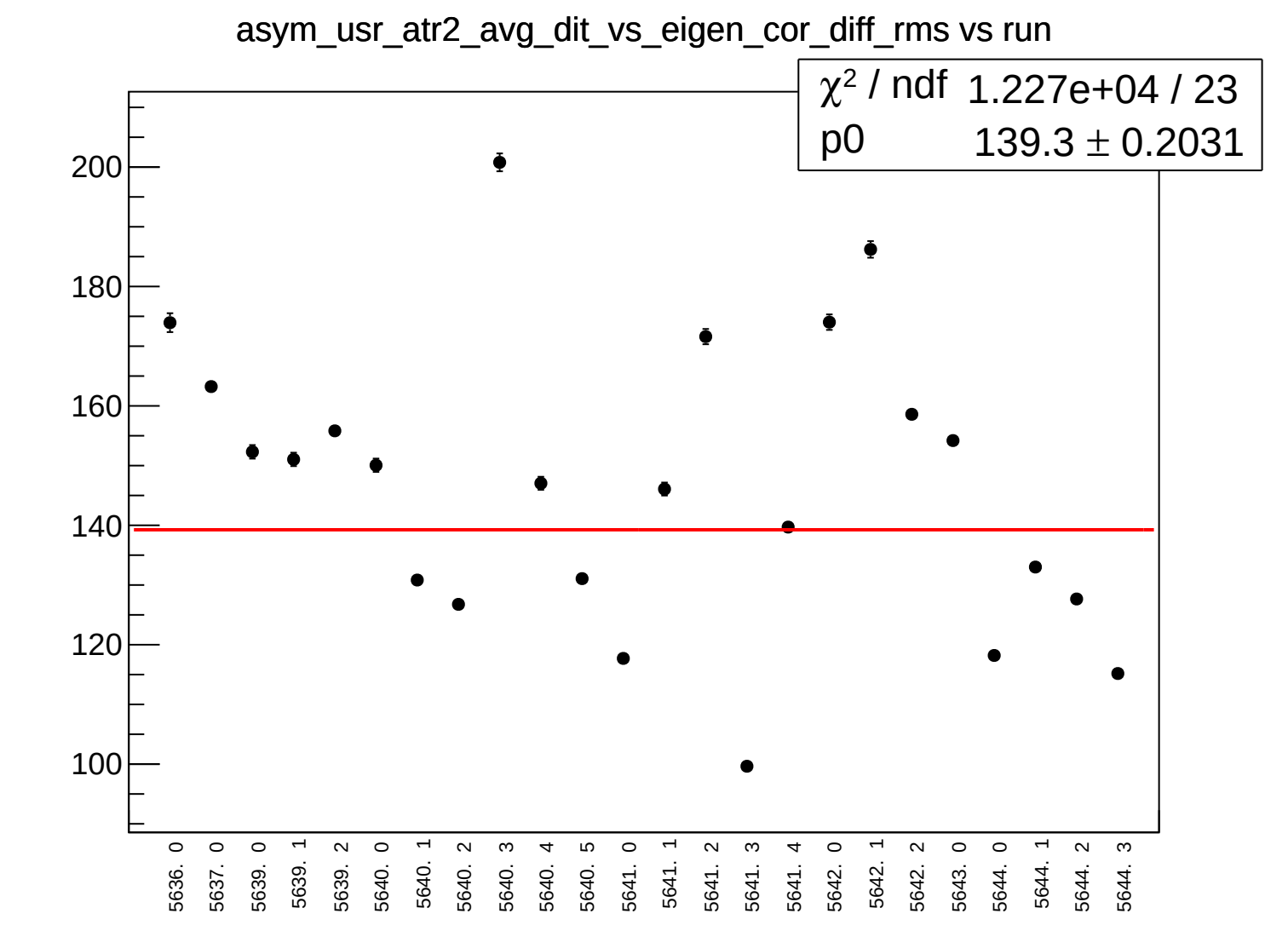

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 27.52 / 23
p0 1.954e−13 ± 3.947e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −19.05
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean 0.06667
Std Dev 1.069
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

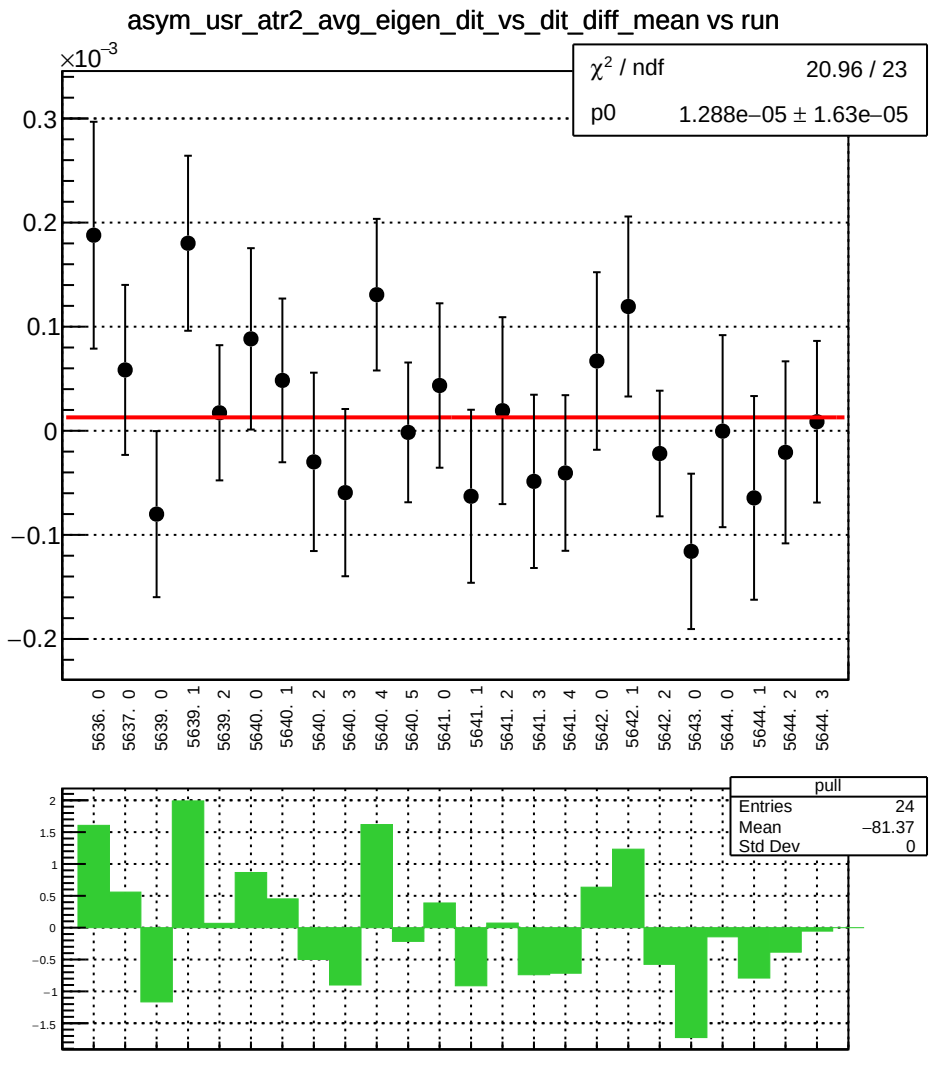

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.256e+05 / 23
p0 1.105e−10 ± 2.791e−13
0.6
0.5
0.4
0.3
0.2
0.1
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

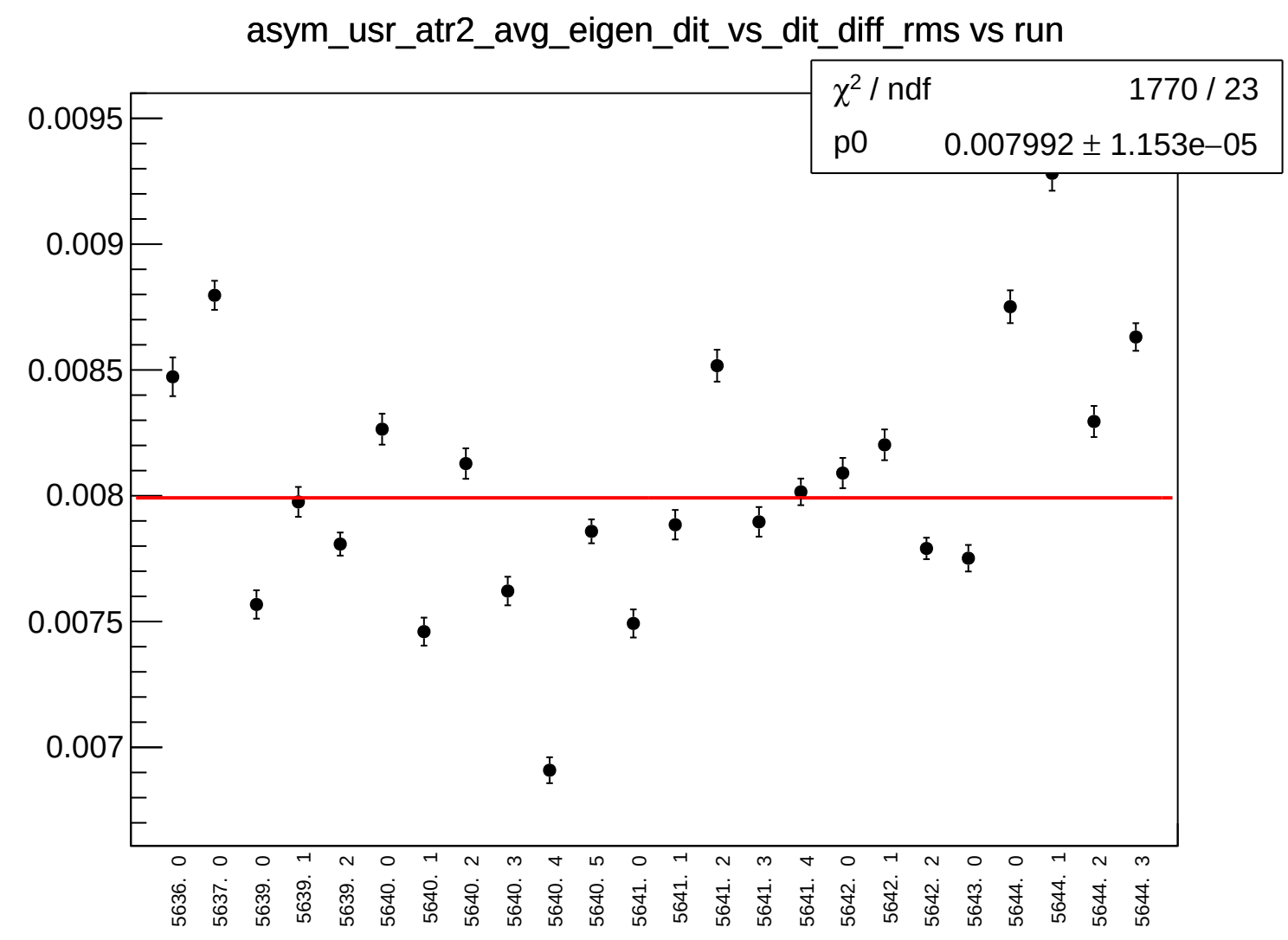

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 26.63 / 23
p0 −0.5676 ± 0.2873
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 9.961
Std Dev 27.81
pull1D
Entries 24
Mean −0.01523
Std Dev 1.053

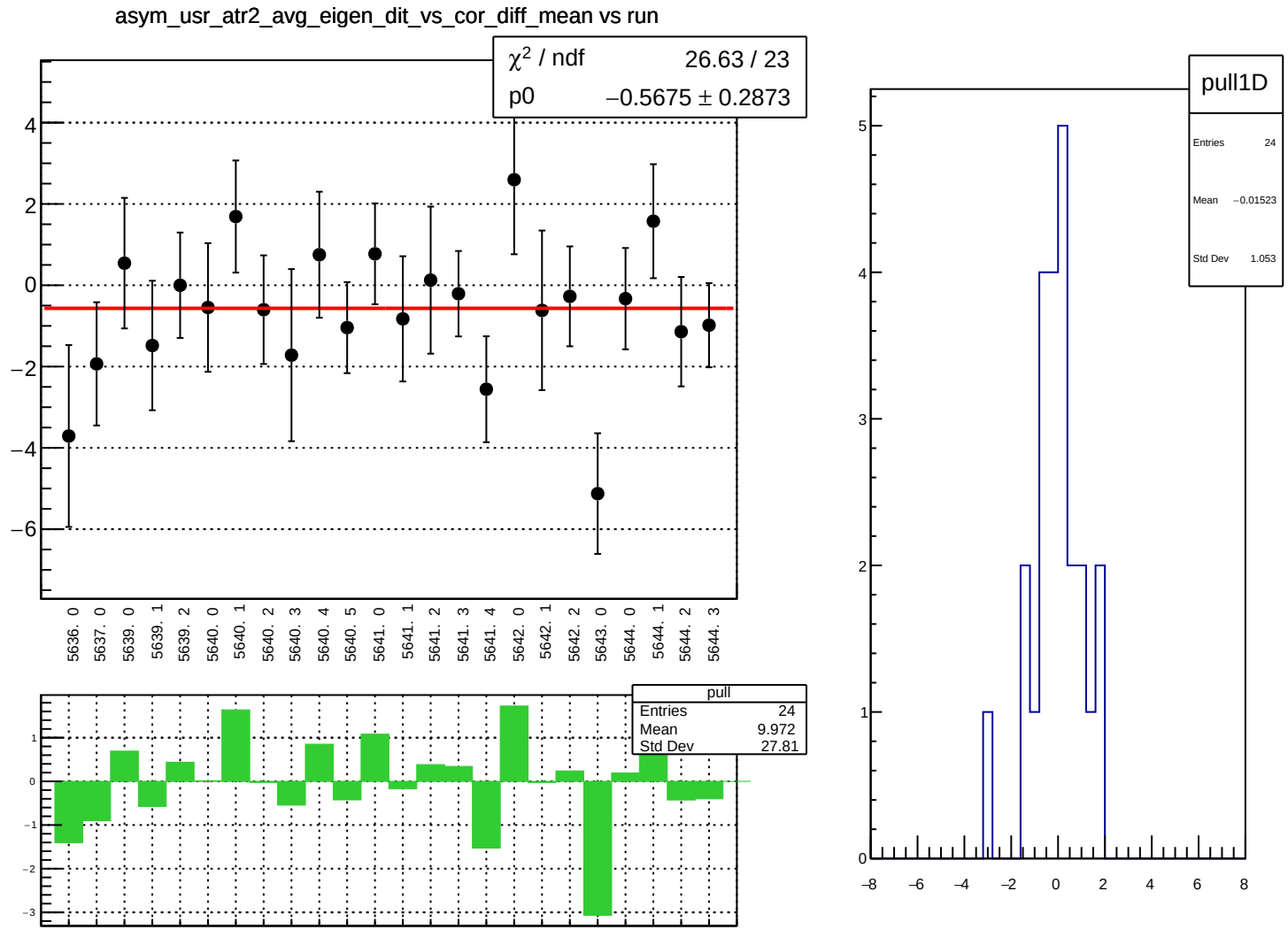

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.227e+04 / 23
p0 139.3 ± 0.2031
200
180
160
140
120
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

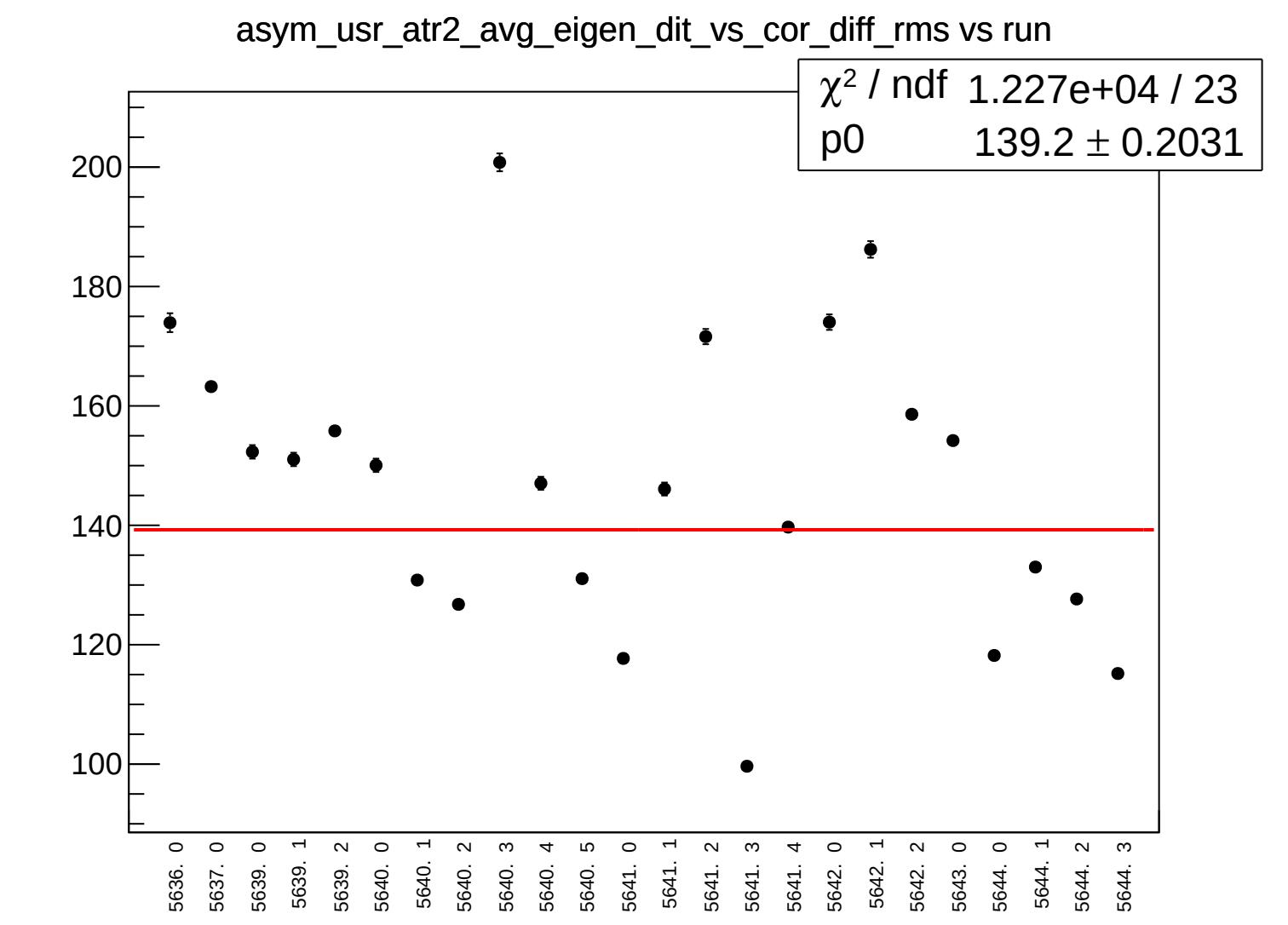

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 26.63 / 23
p0 −0.5676 ± 0.2873
4
2
0
−2
−4
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 9.961
Std Dev 27.81
1
0
−1
−2
−3
pull1D
Entries 24
Mean −0.01523
Std Dev 1.053
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

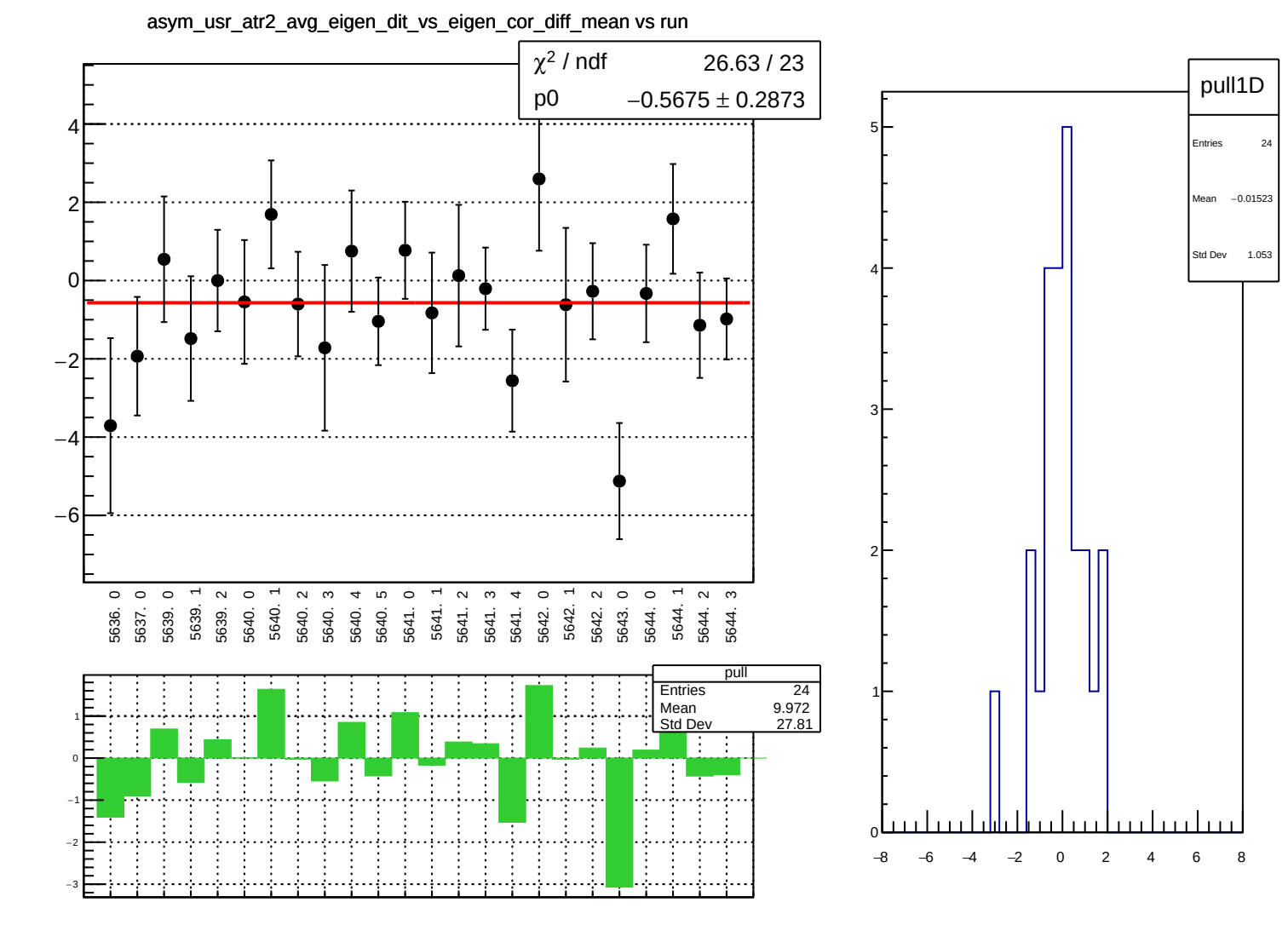

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.227e+04 / 23
p0 139.3 ± 0.2031
200
180
160
140
120
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

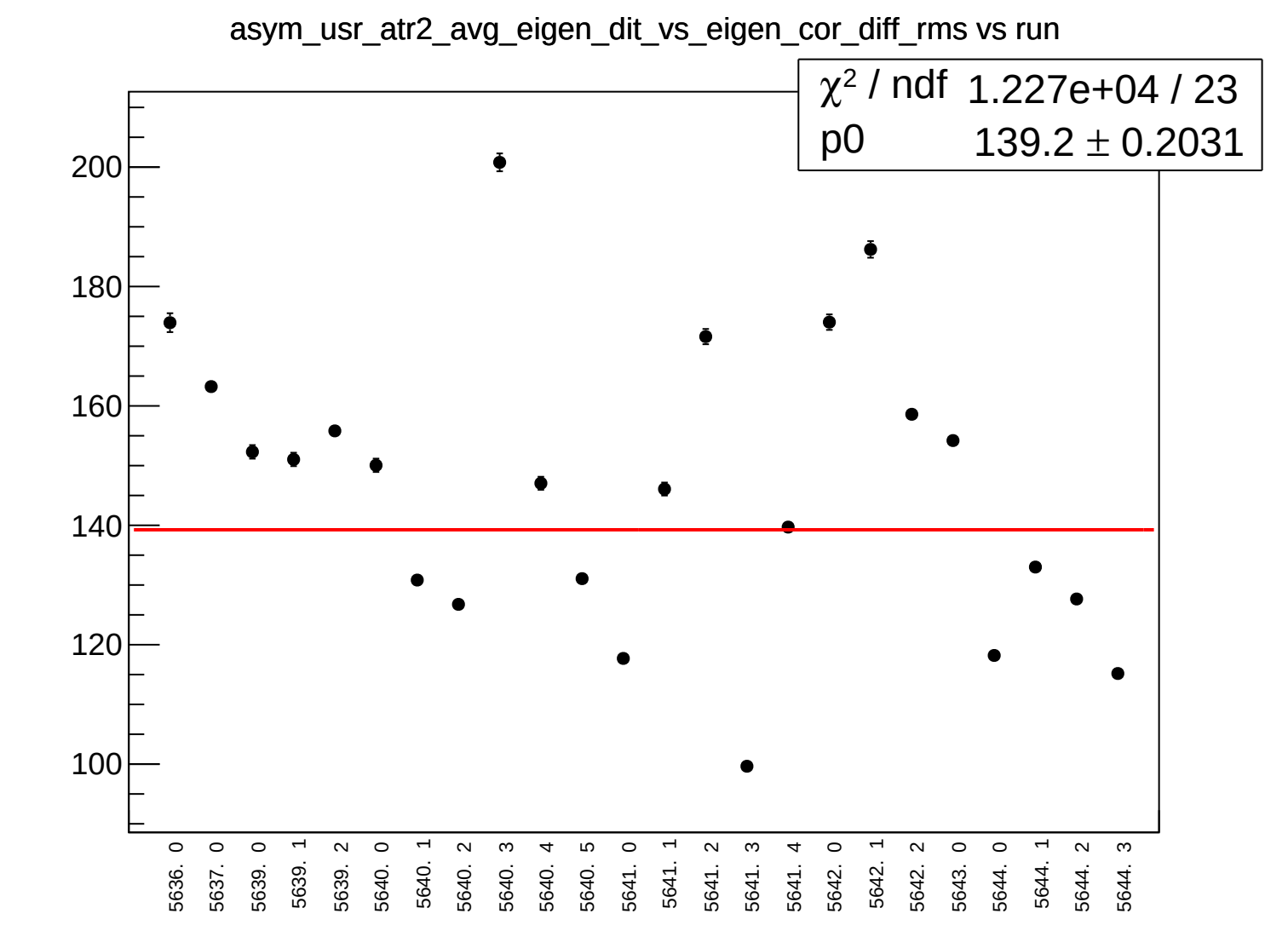

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 20.96 / 23
p0 1.288e−05 ± 1.63e−05
0.3
0.2
0.1
0
−0.1
−0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −81.37
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.02787
Std Dev 0.934
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

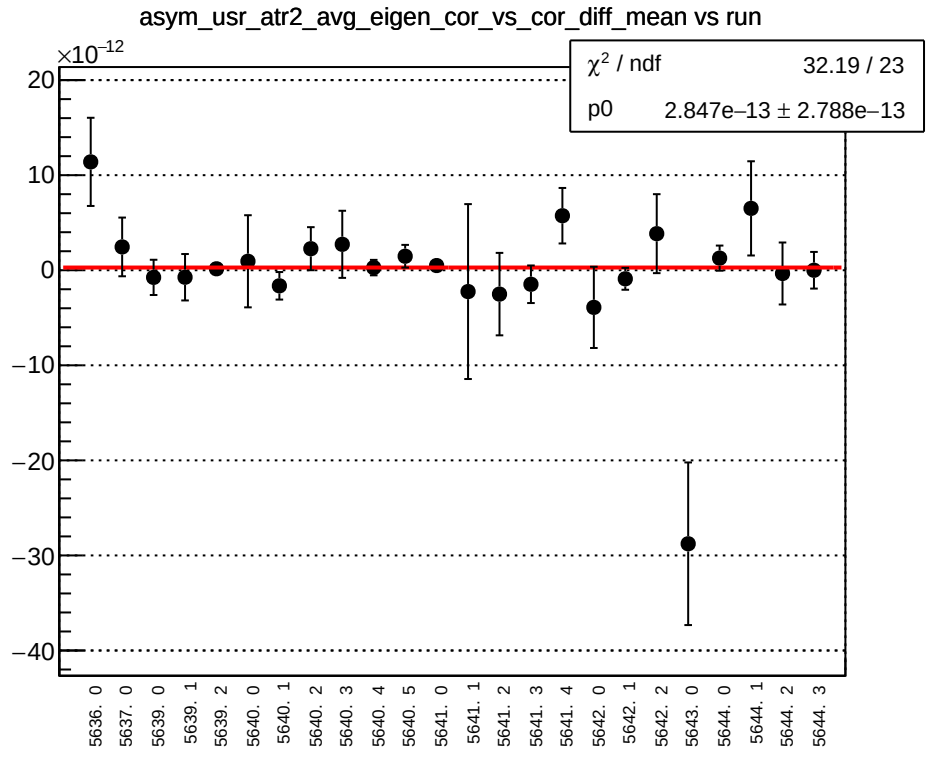

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1770 / 23
p0 0.007992 ± 1.153e−05
0.0095
0.009
0.0085
0.008
0.0075
0.007
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

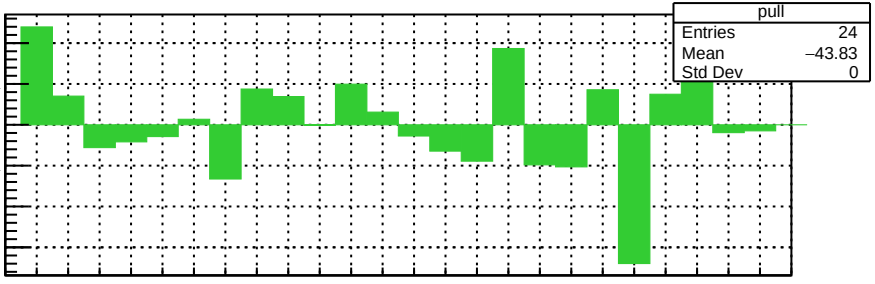

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 26.63 / 23
p0 −0.5675 ± 0.2873
4
2
0
−2
−4
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 9.972
Std Dev 27.81
1
0
−1
−2
−3
pull1D
Entries 24
Mean −0.01523
Std Dev 1.053
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

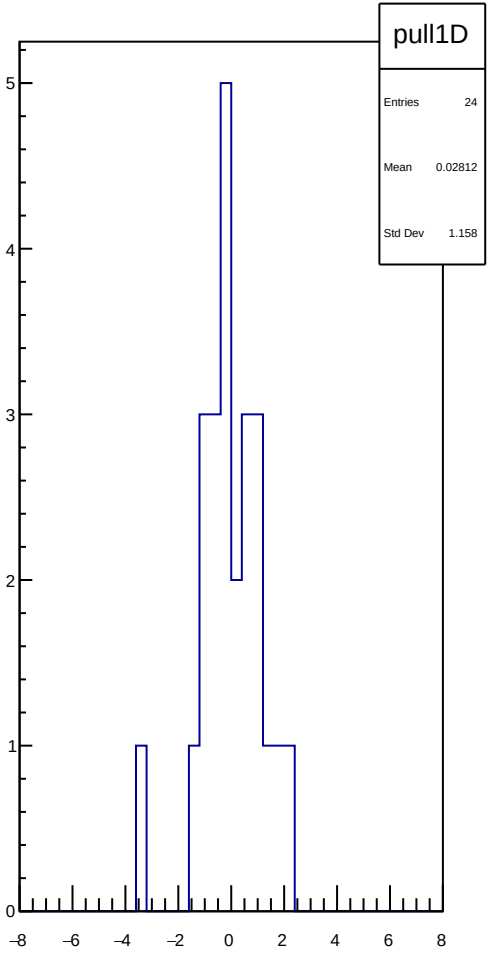

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.227e+04 / 23
p0 139.2 ± 0.2031
200
180
160
140
120
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

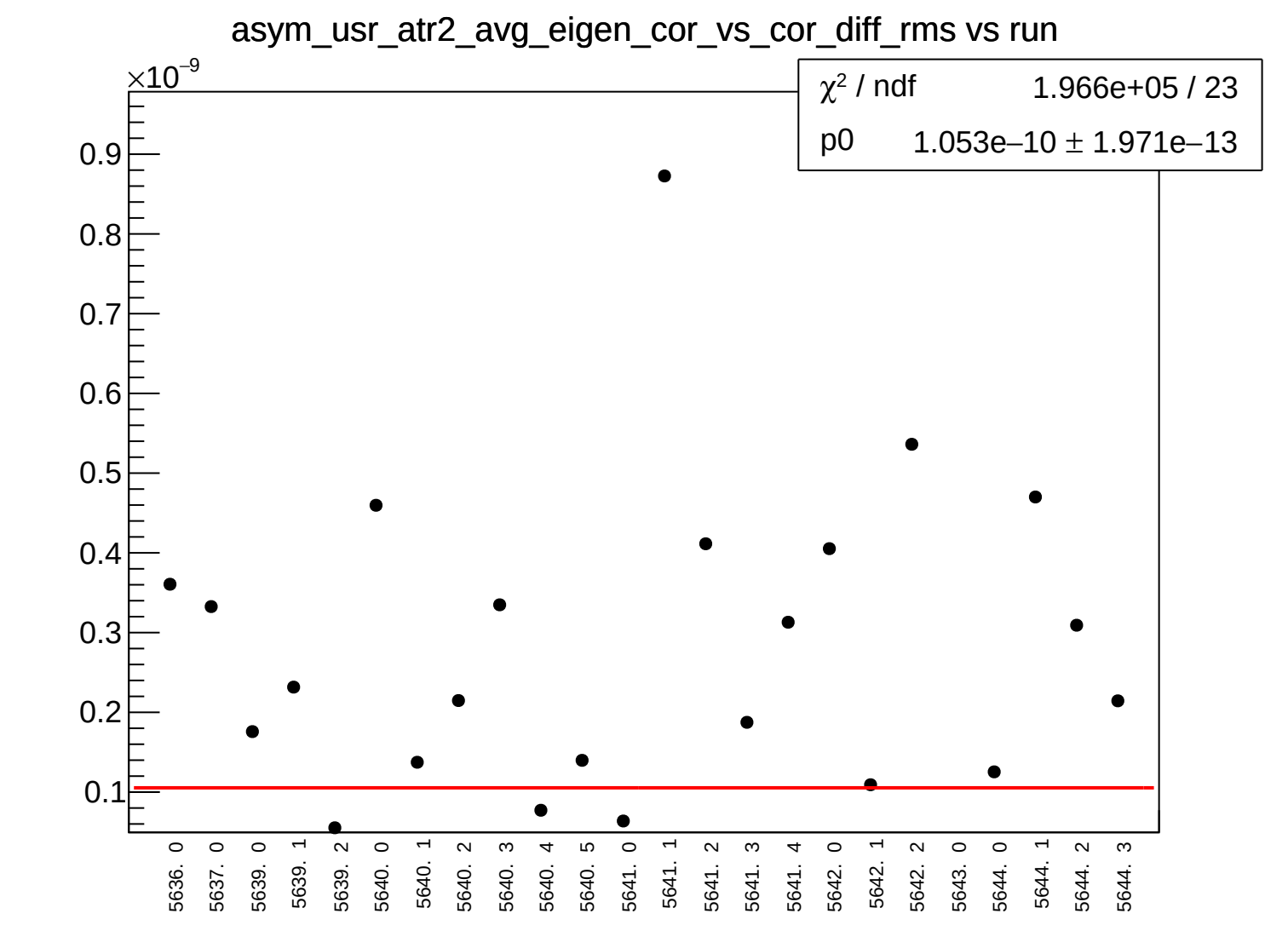

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 26.63 / 23
p0 −0.5675 ± 0.2873
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 9.972
Std Dev 27.81
pull1D
Entries 24
Mean −0.01523
Std Dev 1.053

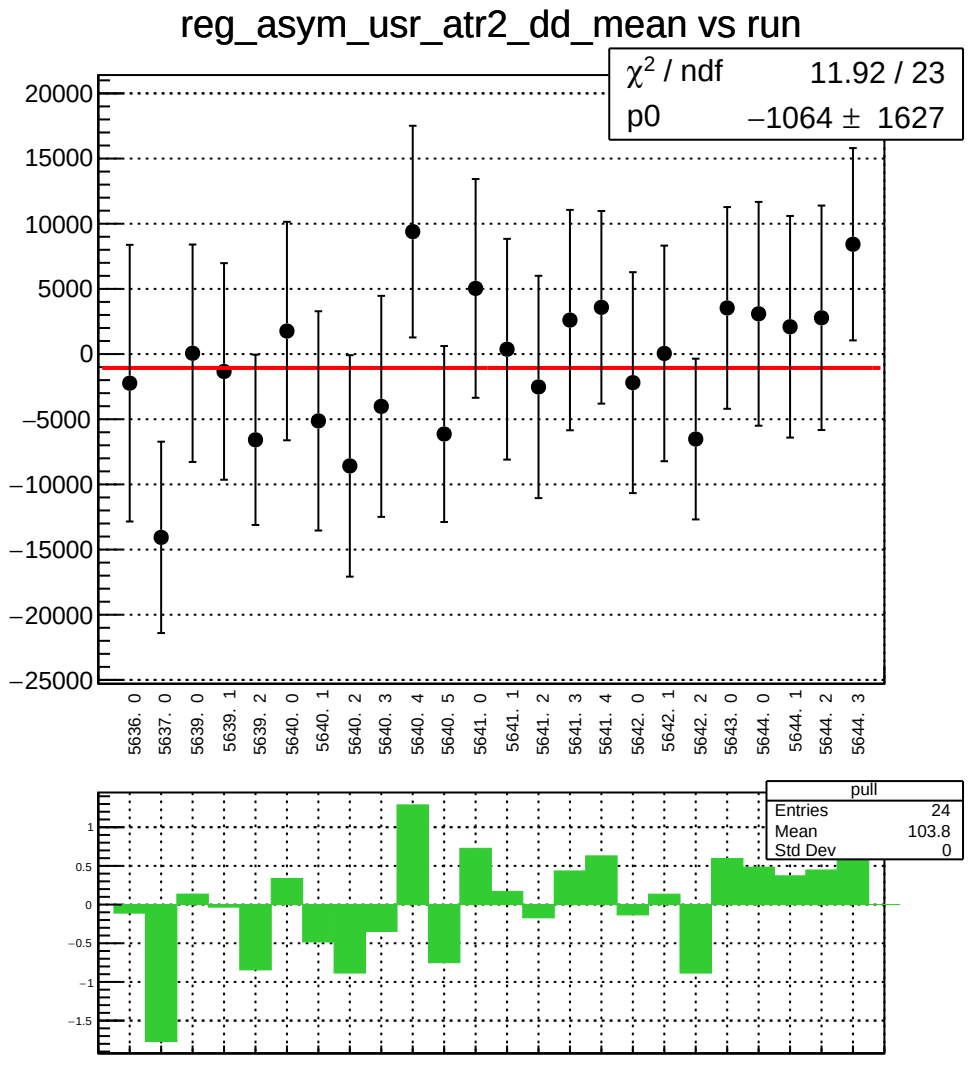

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.227e+04 / 23
p0 139.2 ± 0.2031
200
180
160
140
120
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

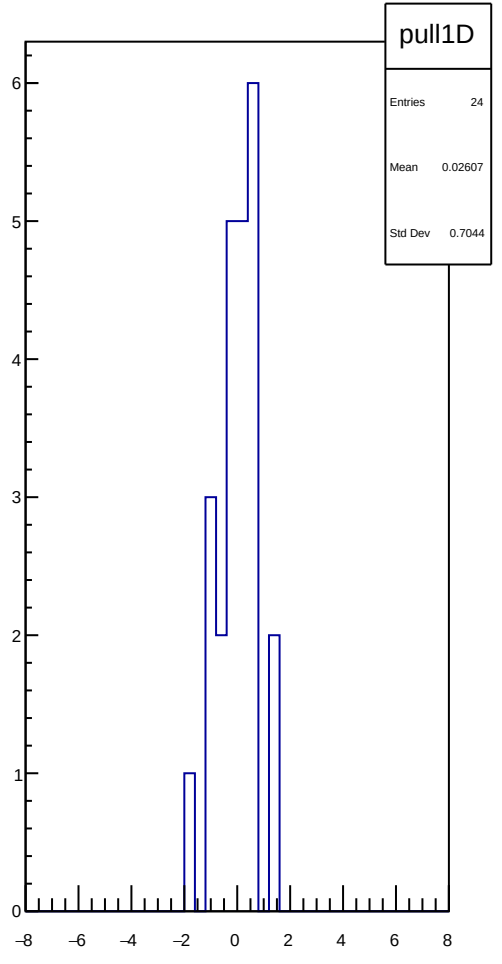

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 32.19 / 23
p0 2.847e−13 ± 2.788e−13
20
10
0
−10
−20
−30
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

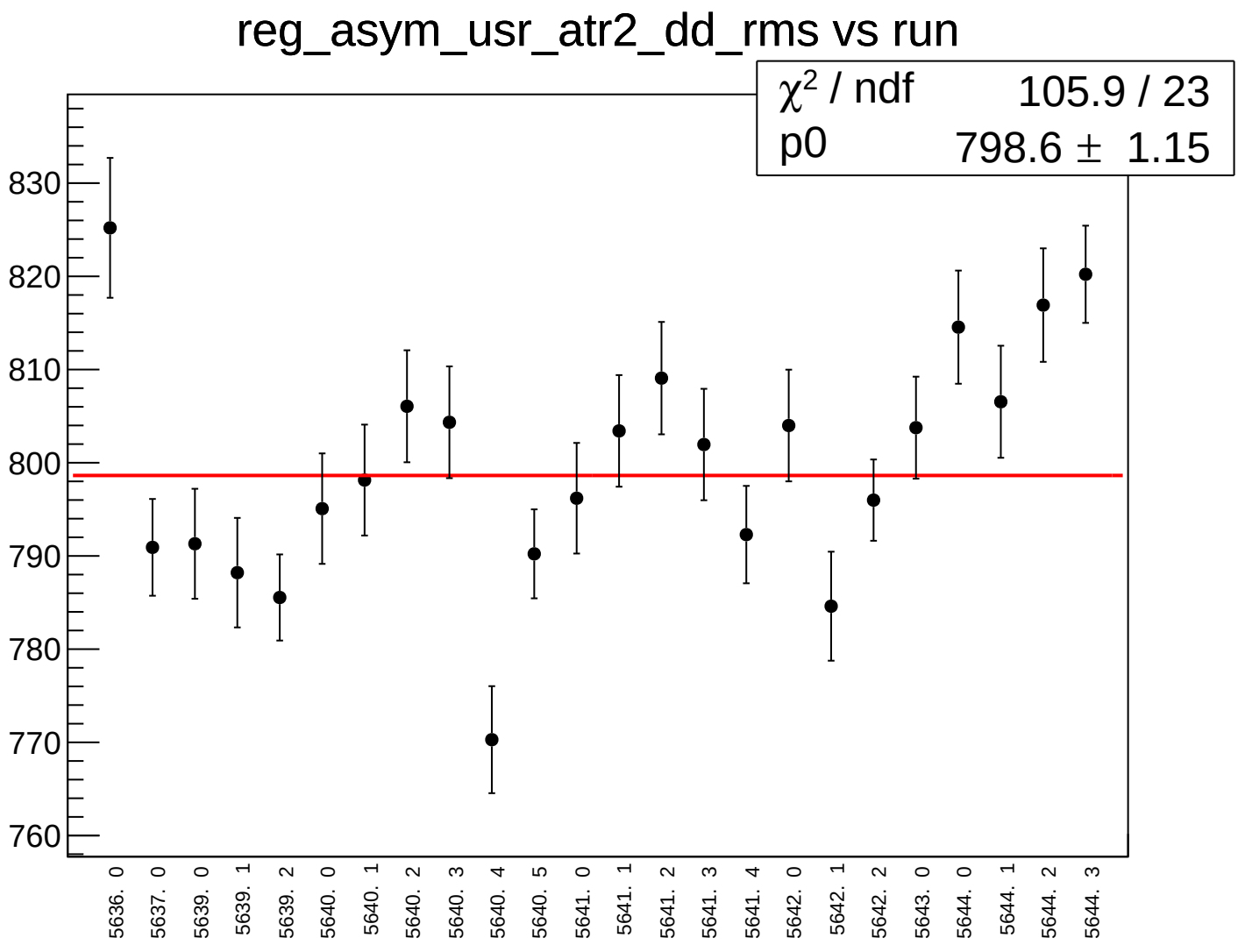

pull
Entries 24
Mean −43.83
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 24
Mean 0.02812
Std Dev 1.158
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.966e+05 / 23
p0 1.053e−10 ± 1.971e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 11.92 / 23
p0 −1064 ± 1627
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 103.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean 0.02607
Std Dev 0.7044
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 105.9 / 23
p0 798.6 ± 1.15
830
820
810
800
790
780
770
760
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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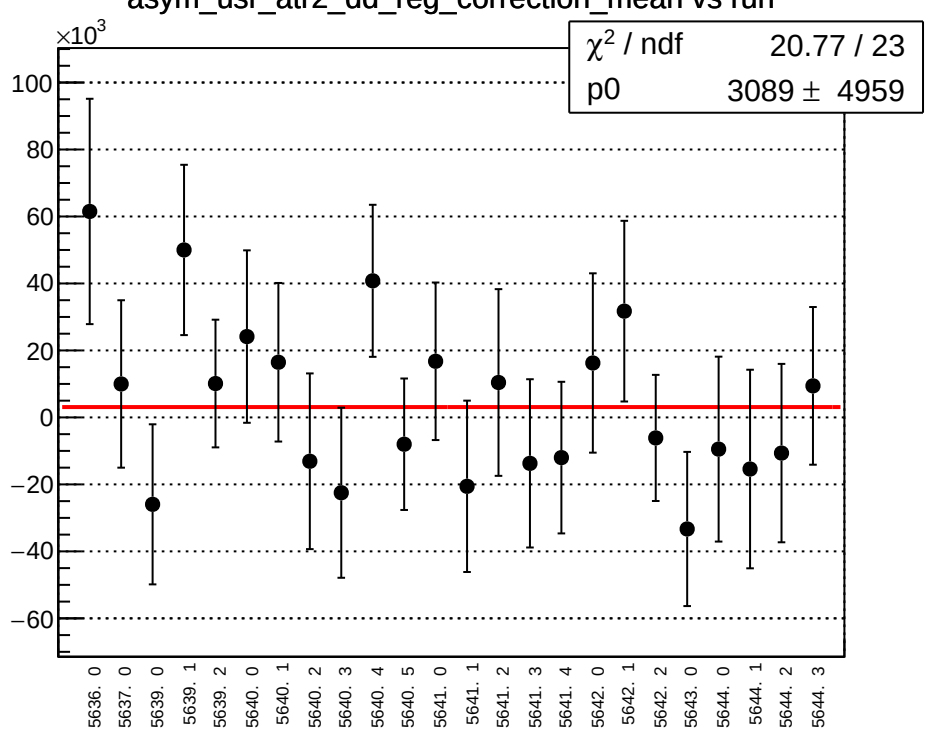
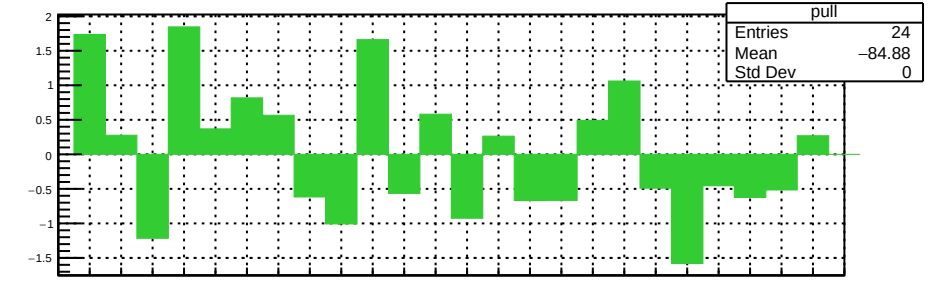
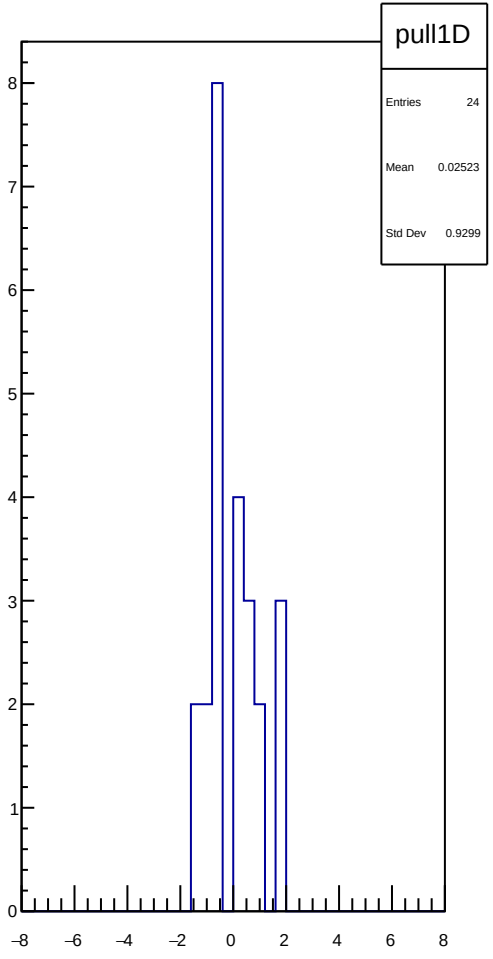
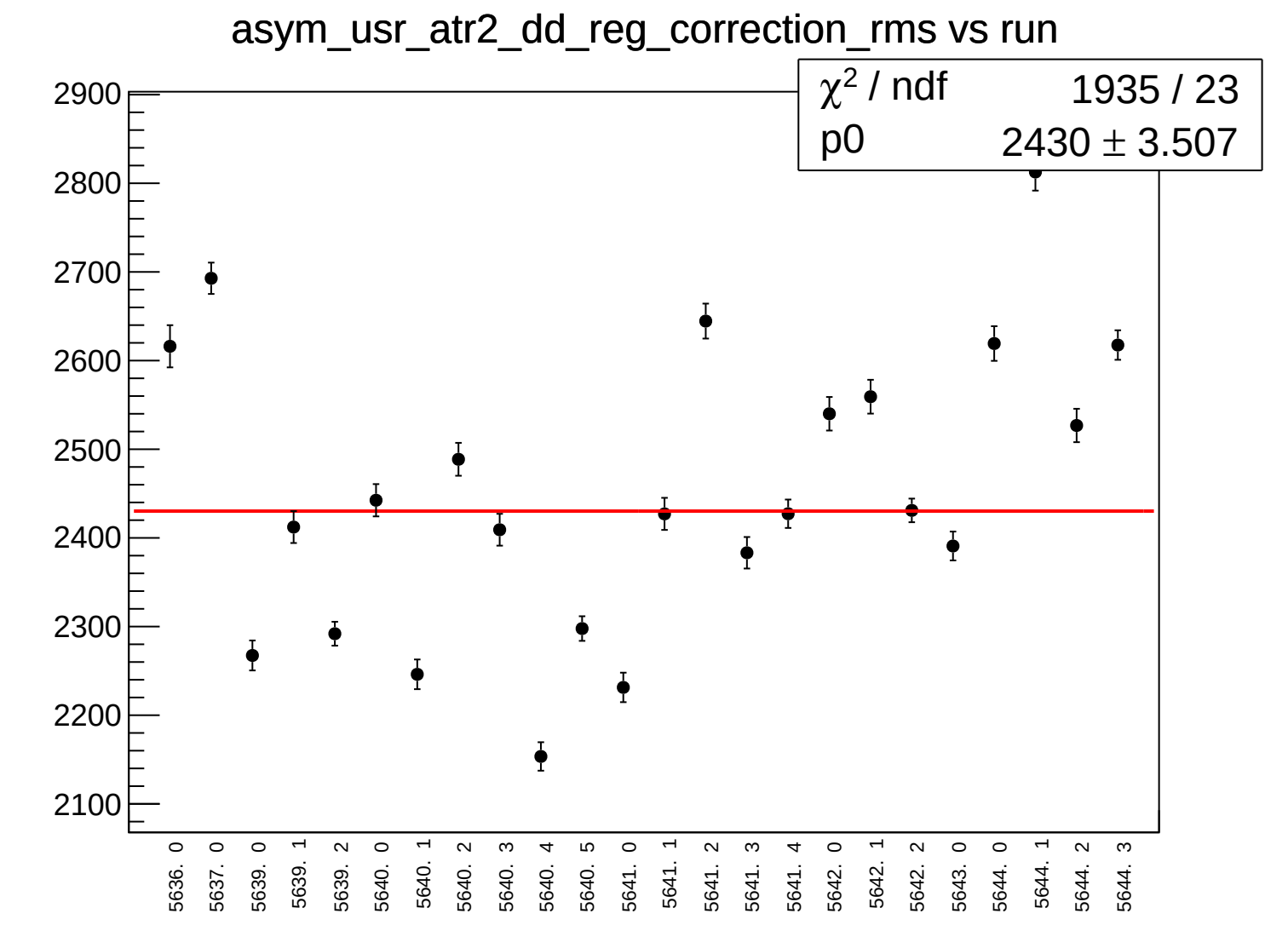
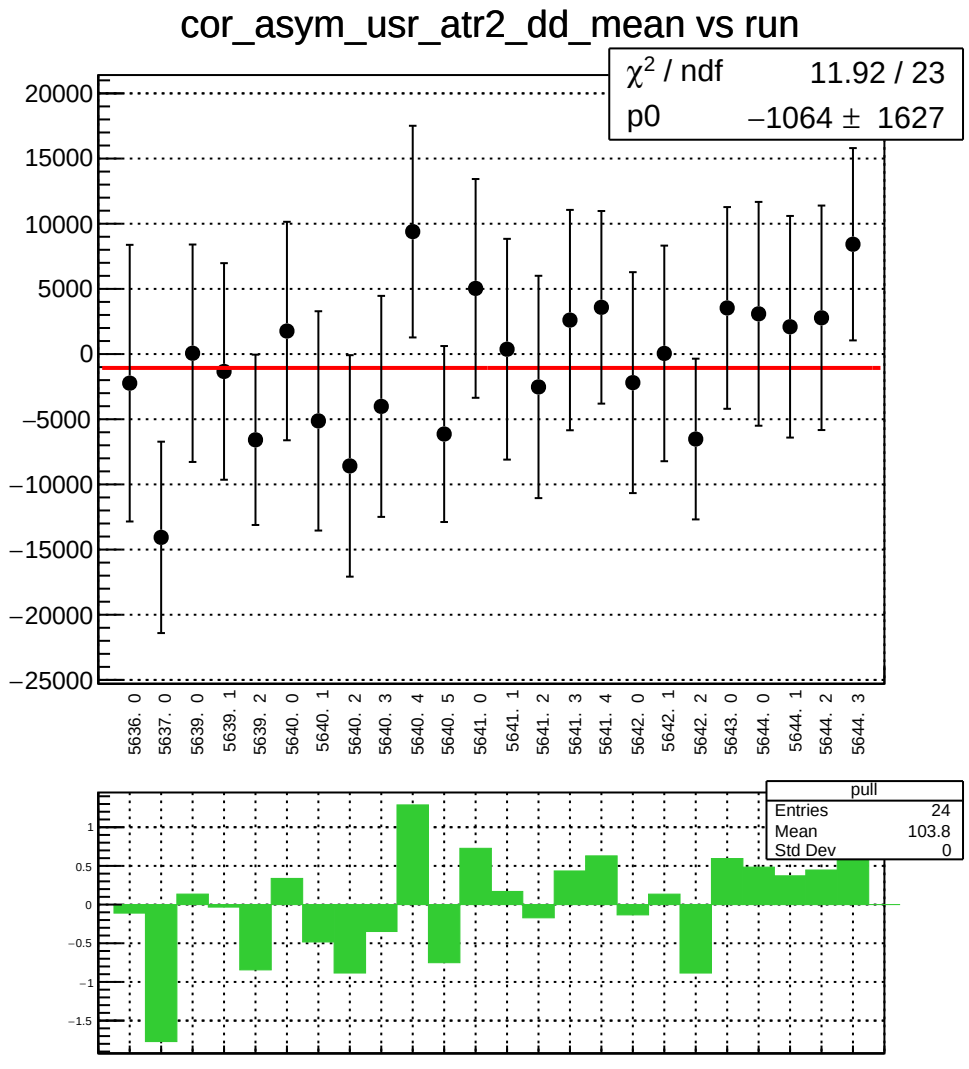
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

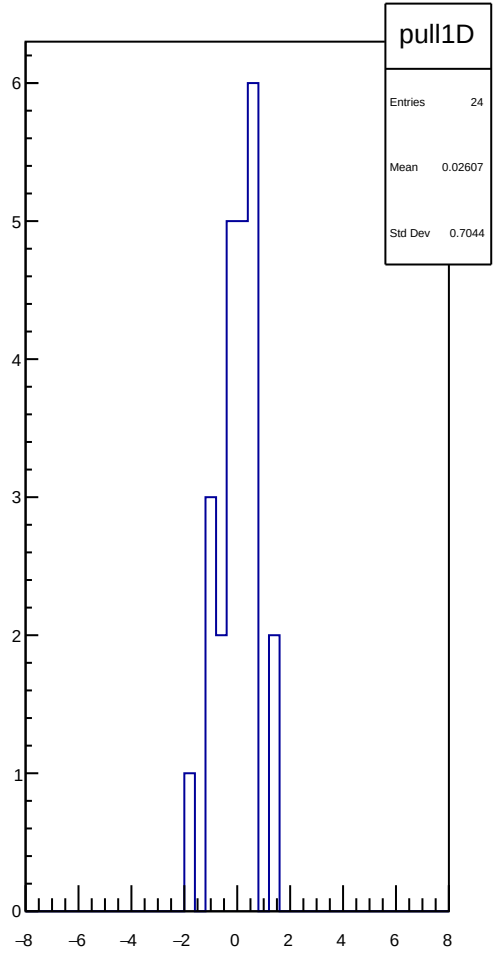

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 20.77 / 23
p0 3089 ± 4959
100
80
60
40
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

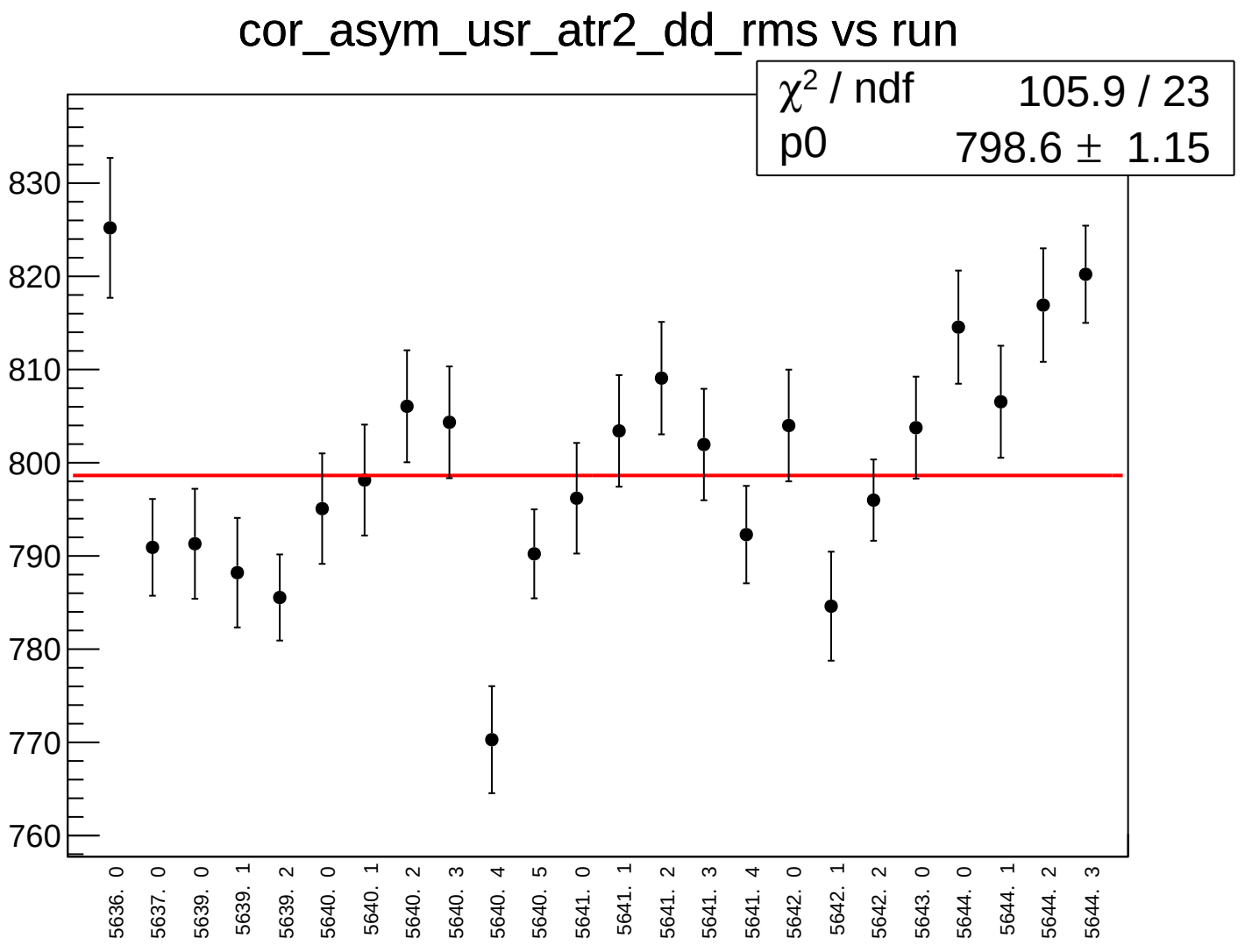

pull
Entries 24
Mean −84.88
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

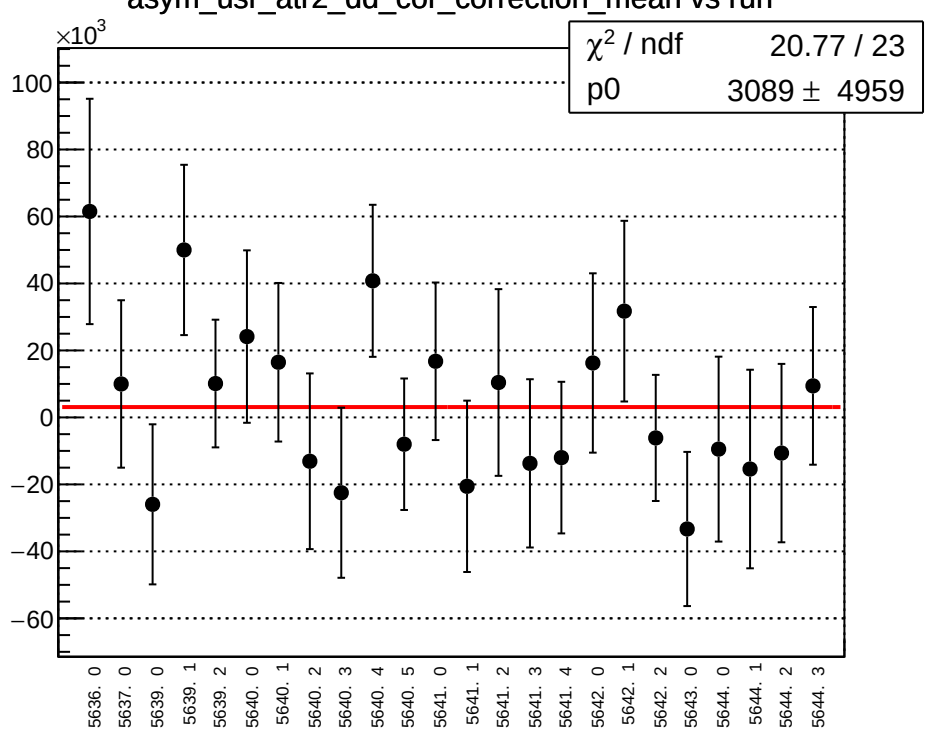

pull1D
Entries 24
Mean 0.02523
Std Dev 0.9299
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

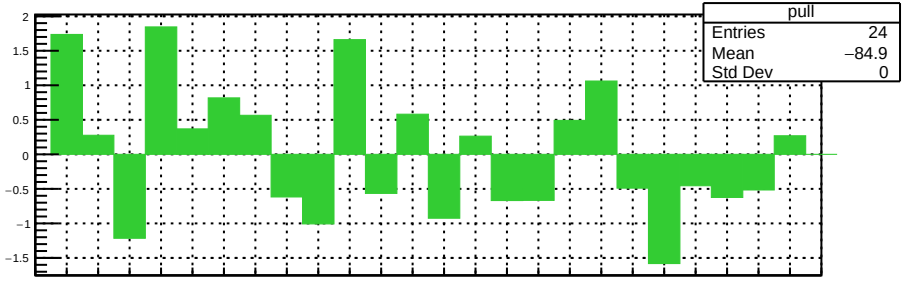

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 1935 / 23
p0 2430 ± 3.507
2900
2800
2700
2600
2500
2400
2300
2200
2100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

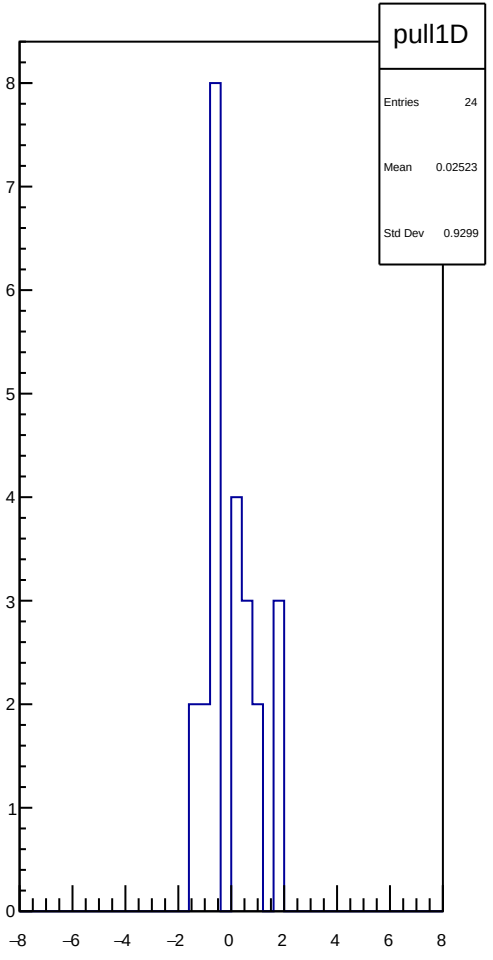

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 11.92 / 23
p0 −1064 ± 1627
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 103.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

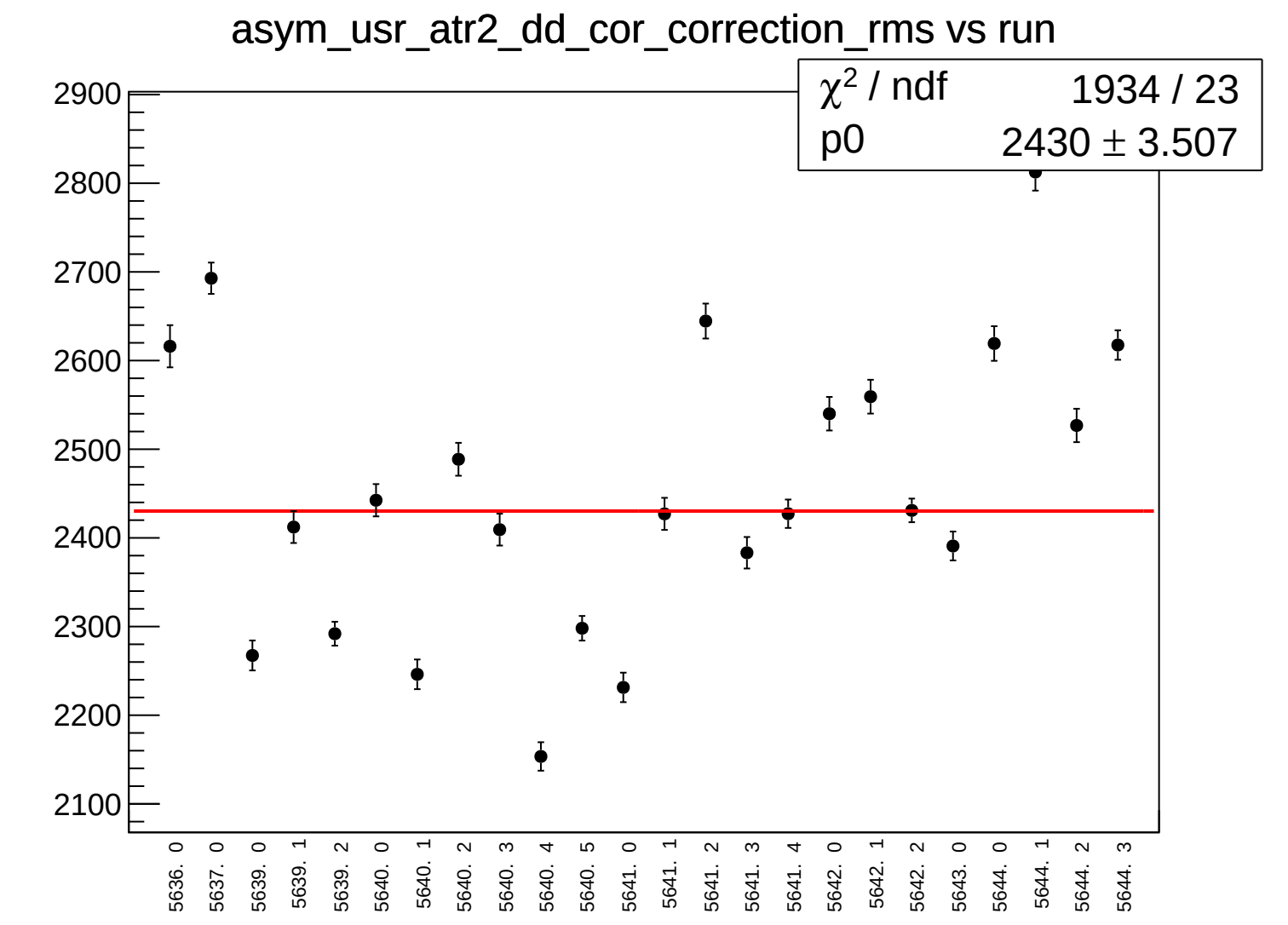

pull1D
Entries 24
Mean 0.02607
Std Dev 0.7044
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

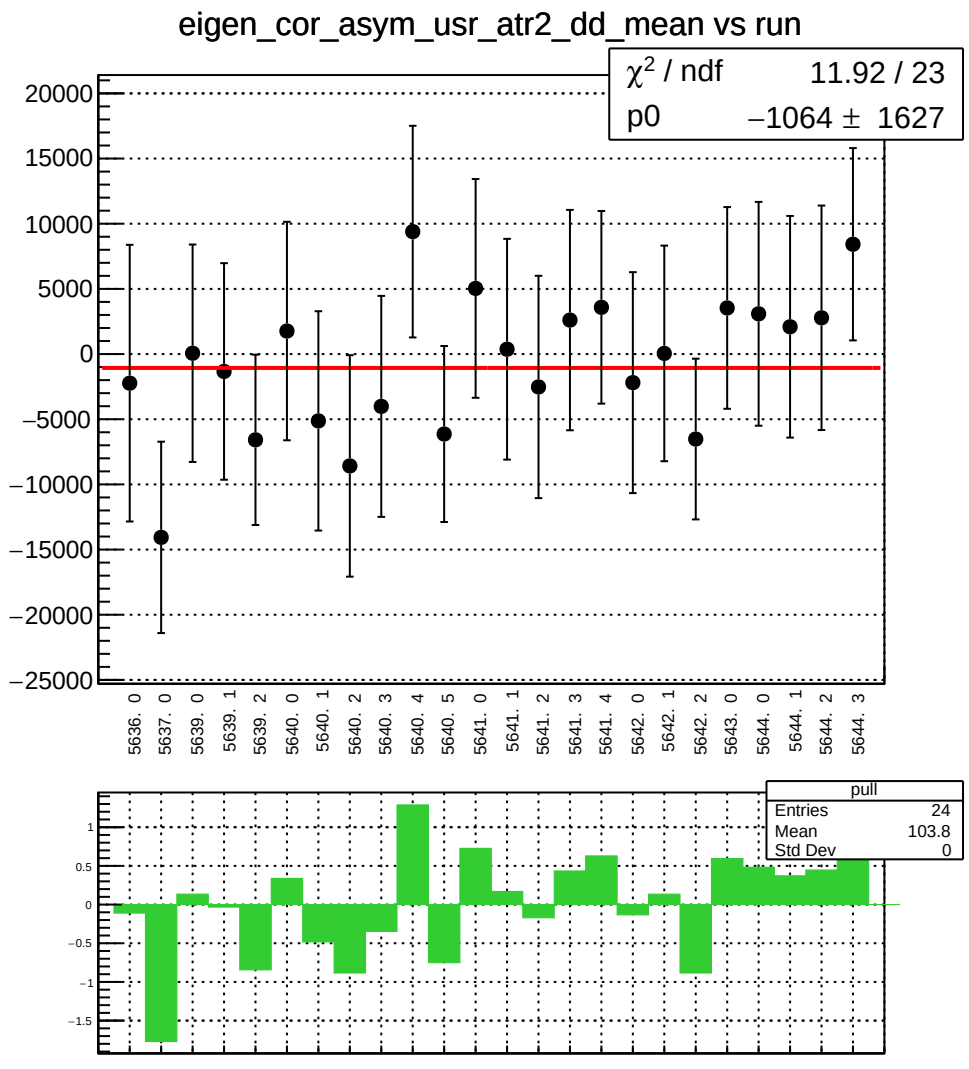

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 105.9 / 23
p0 798.6 ± 1.15
830
820
810
800
790
780
770
760
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

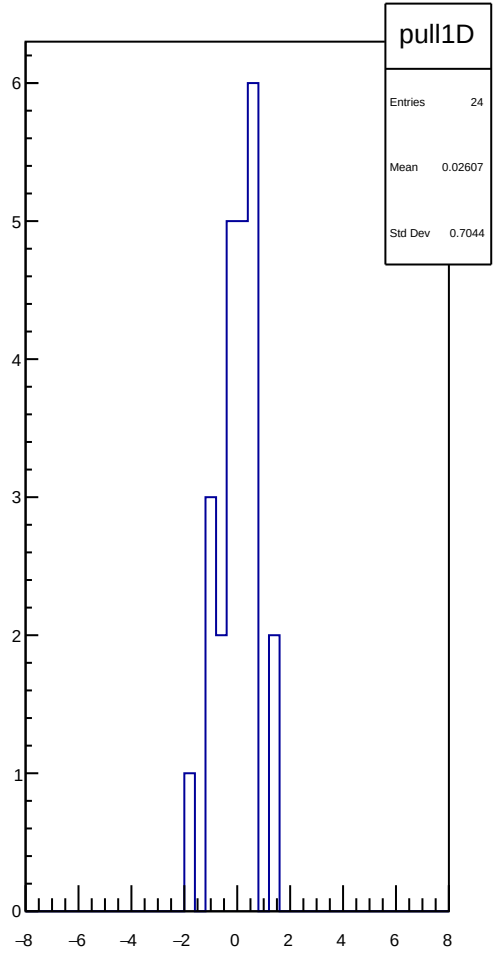

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 20.77 / 23
p0 3089 ± 4959
100
80
60
40
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

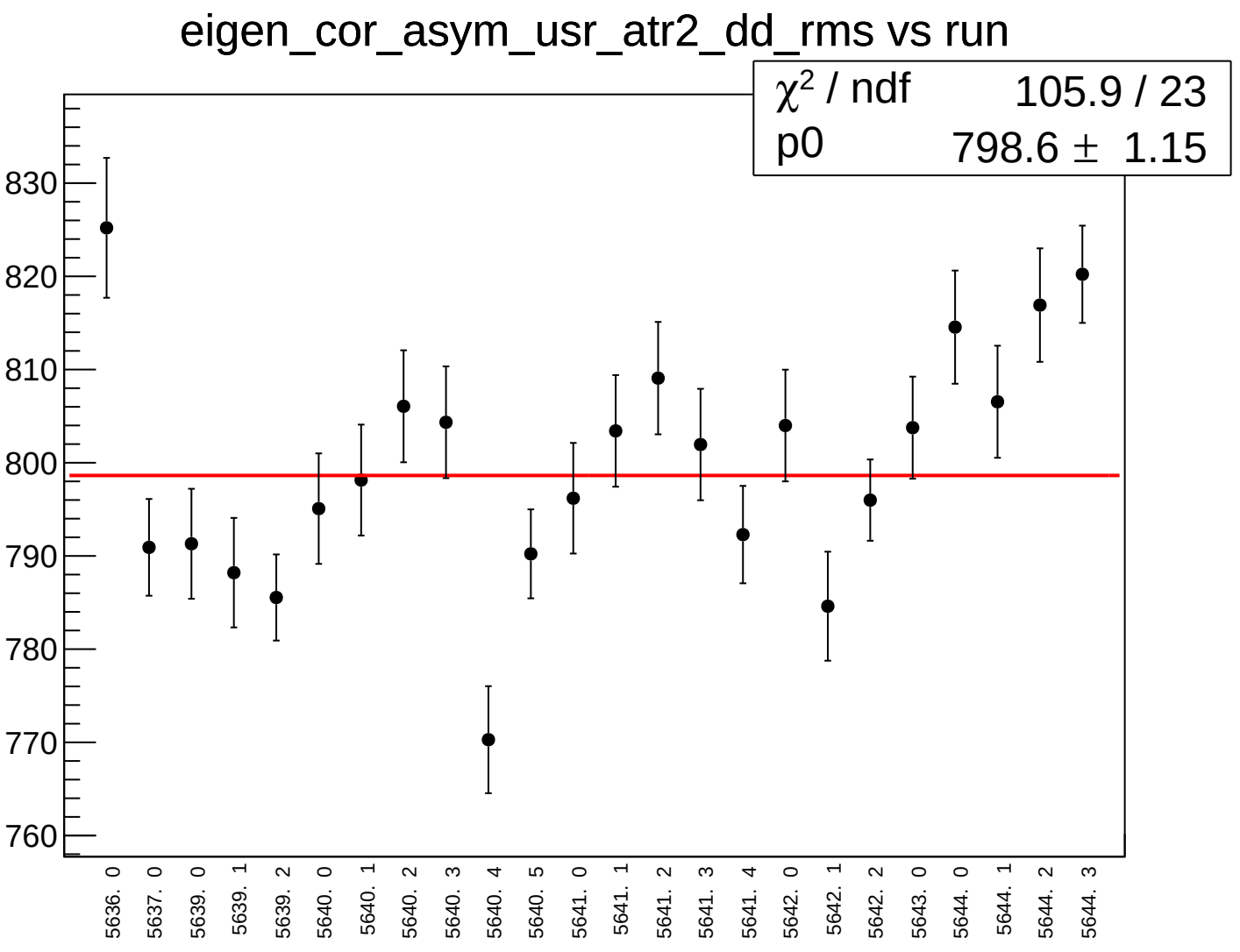

pull
Entries 24
Mean −84.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean 0.02523
Std Dev 0.9299
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 1934 / 23
p0 2430 ± 3.507
2900
2800
2700
2600
2500
2400
2300
2200
2100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 11.92 / 23
p0 −1064 ± 1627
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 103.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean 0.02607
Std Dev 0.7044
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 105.9 / 23
p0 798.6 ± 1.15
830
820
810
800
790
780
770
760
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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5642. 0
5642. 1
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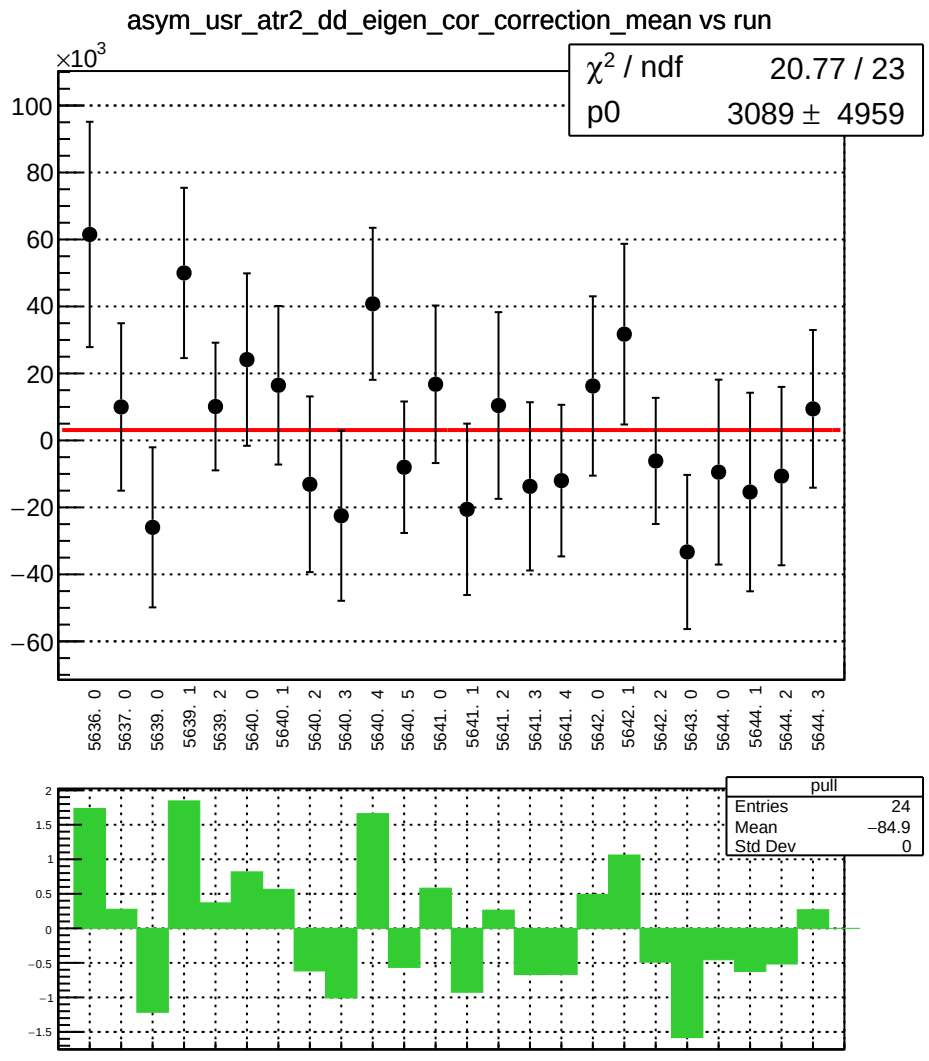
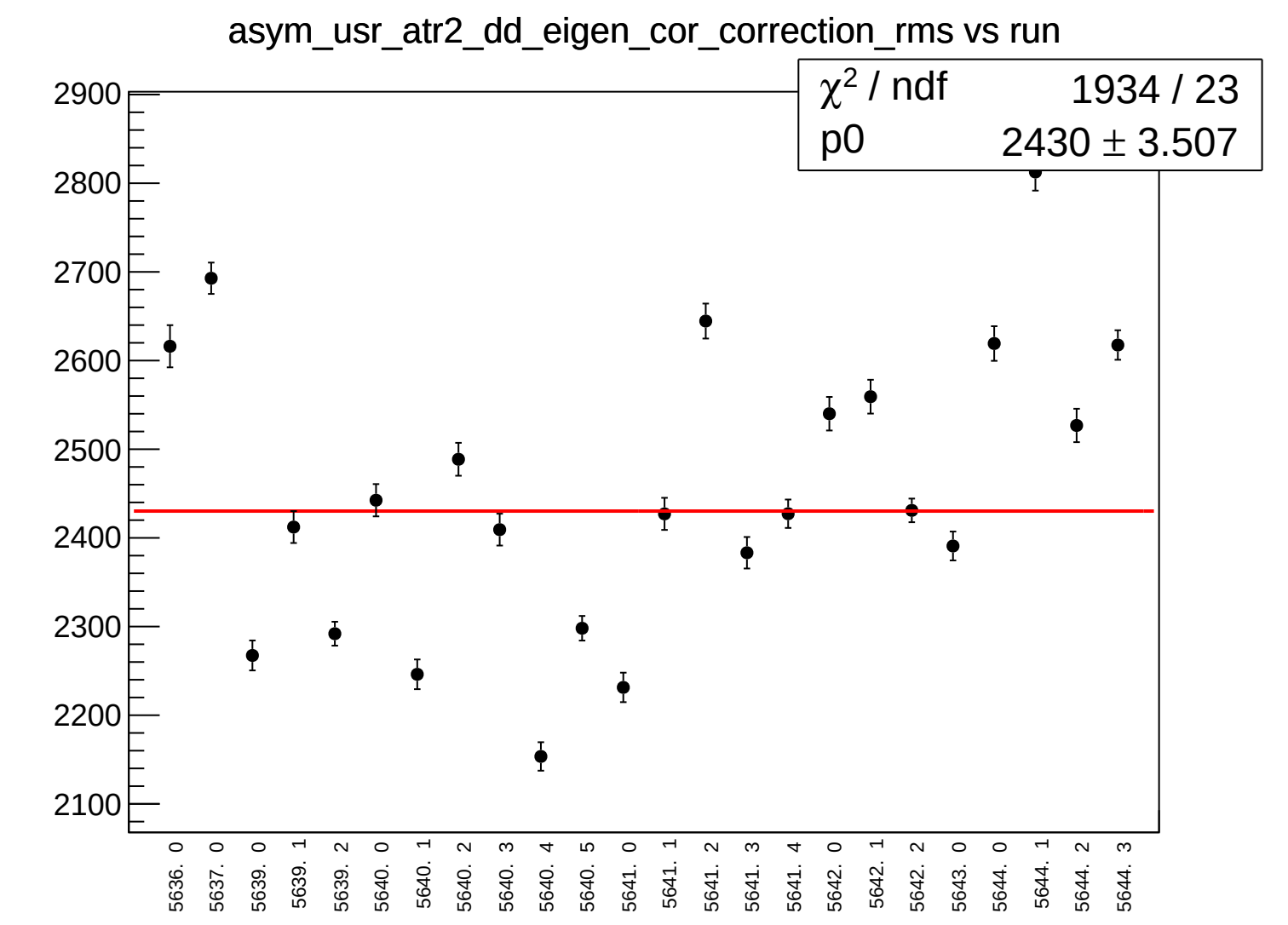
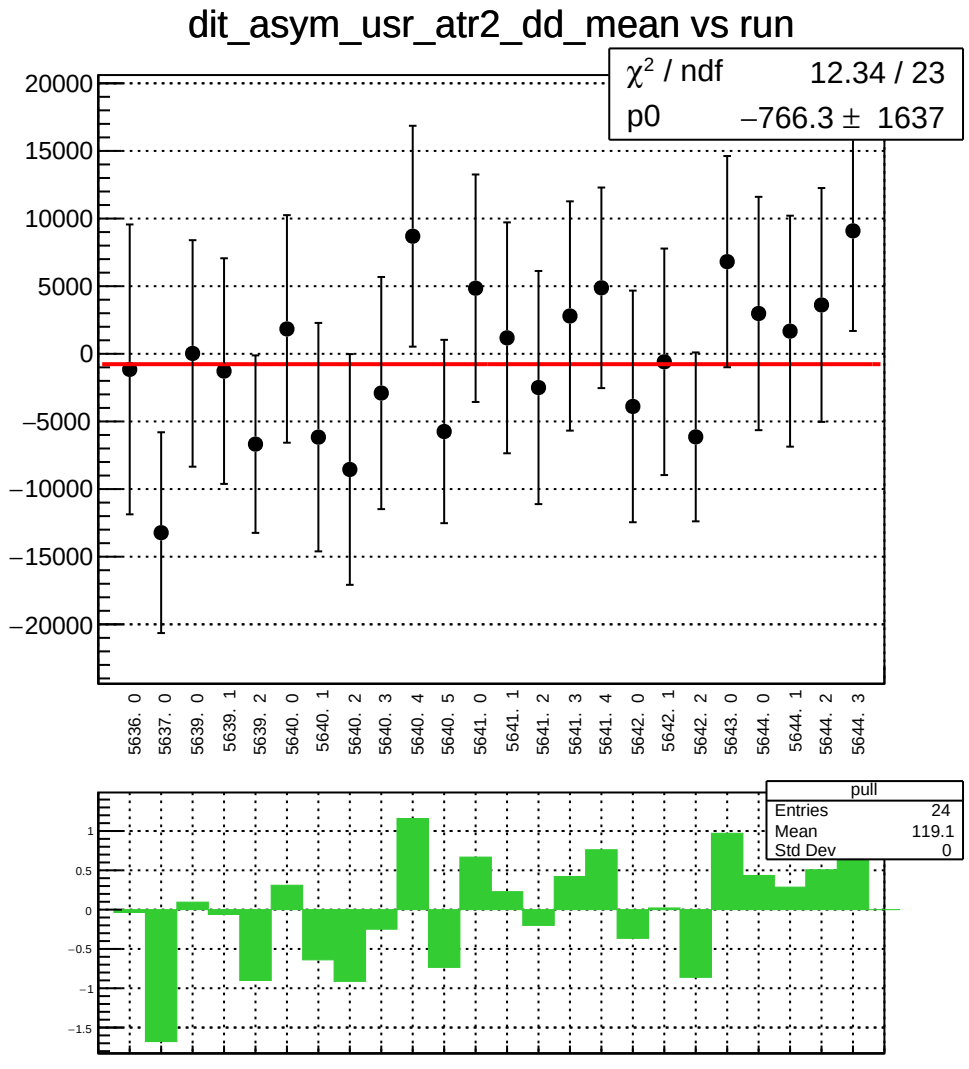
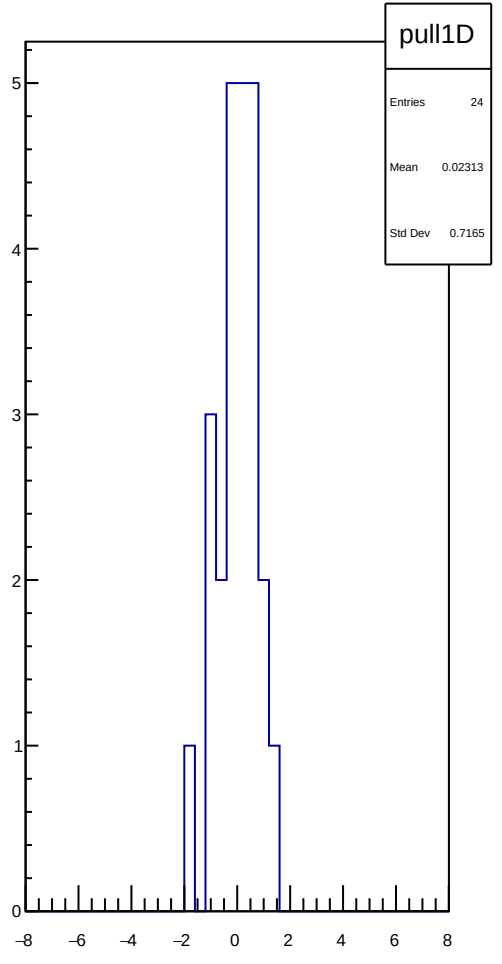
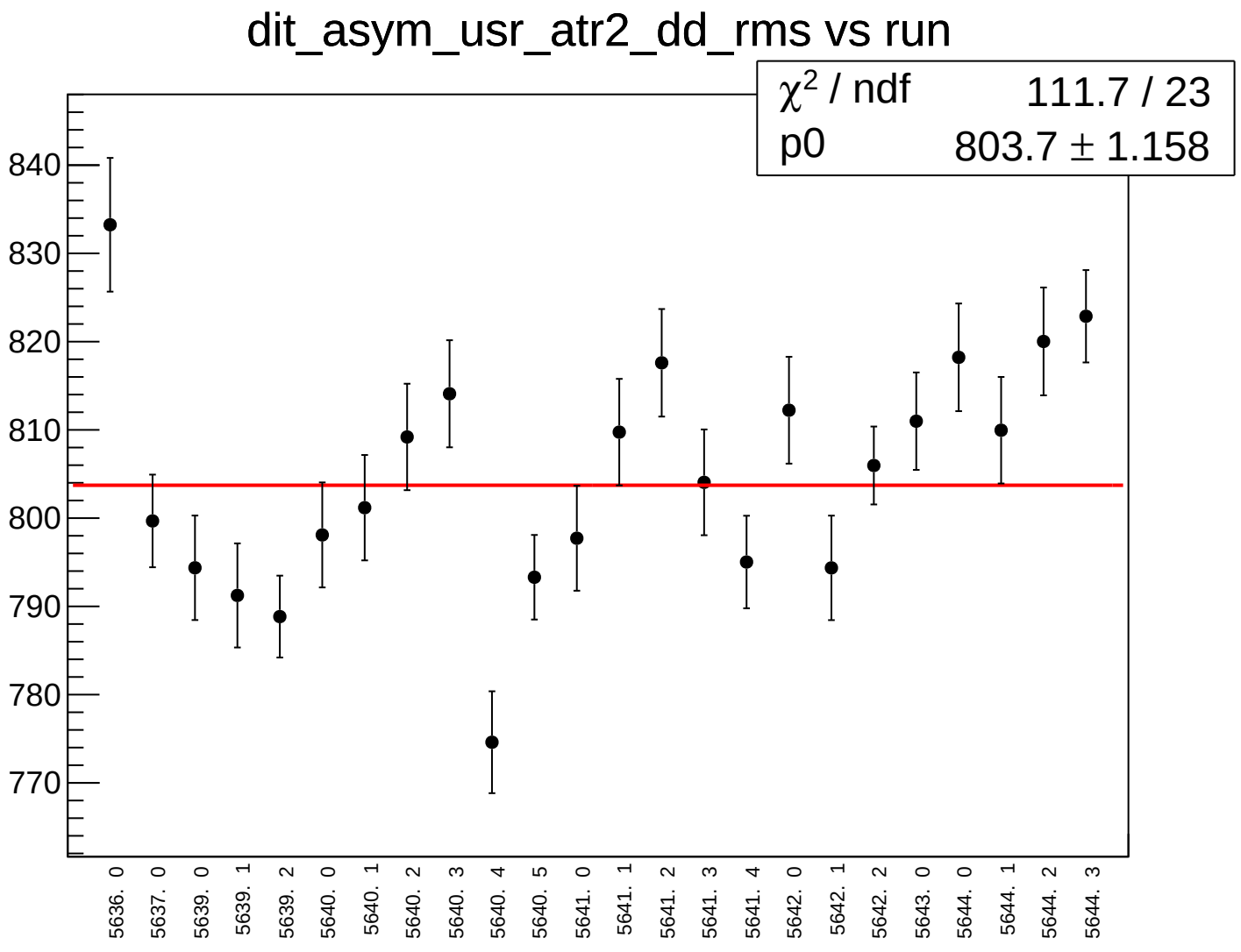
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

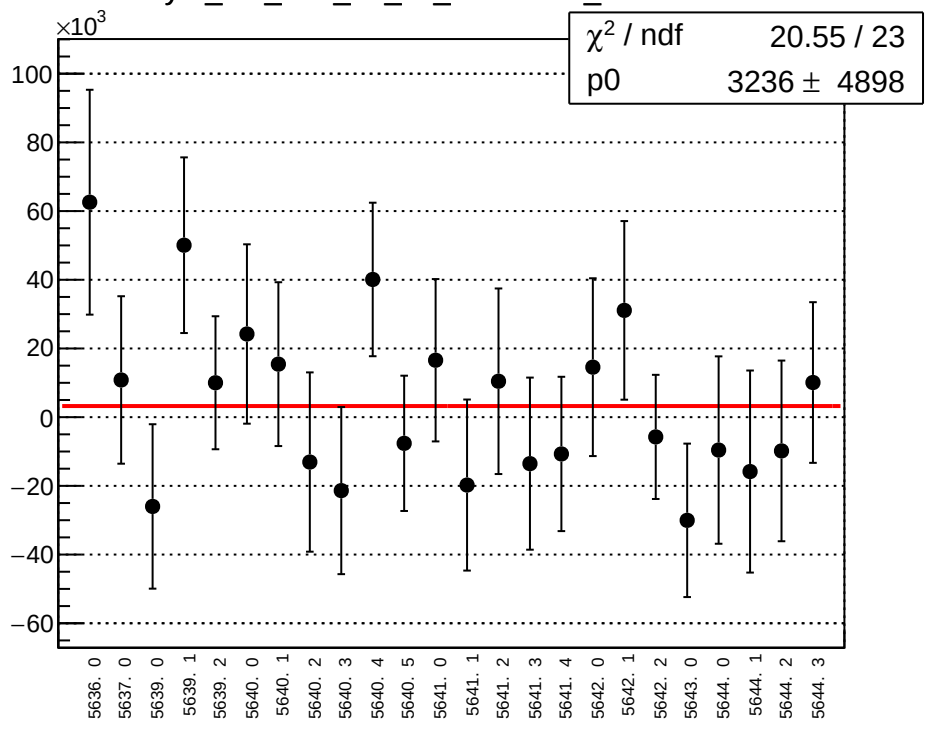

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 20.77 / 23
p0 3089 ± 4959
100
80
60
40
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −84.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.02523
Std Dev 0.9299
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

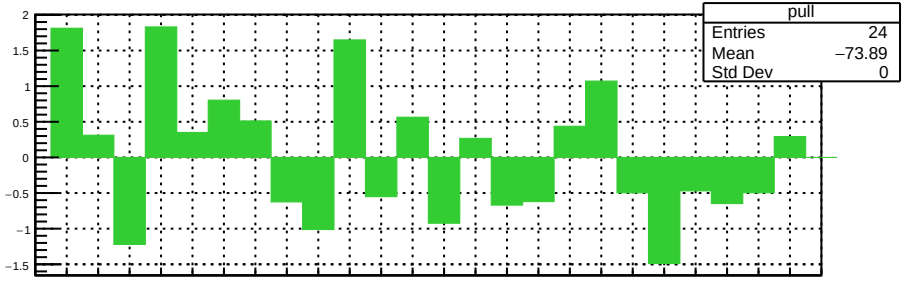

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1934 / 23
p0 2430 ± 3.507
2900
2800
2700
2600
2500
2400
2300
2200
2100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

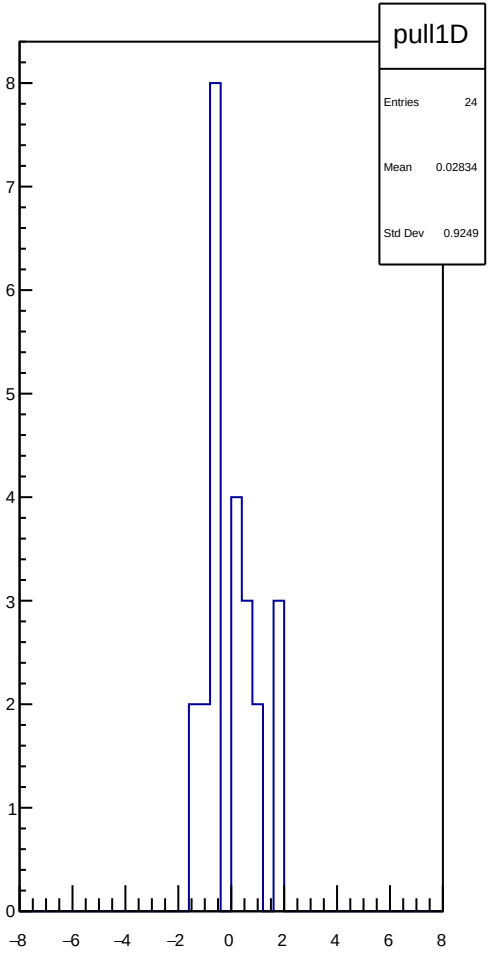

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 12.34 / 23
p0 −766.3 ± 1637
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 119.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

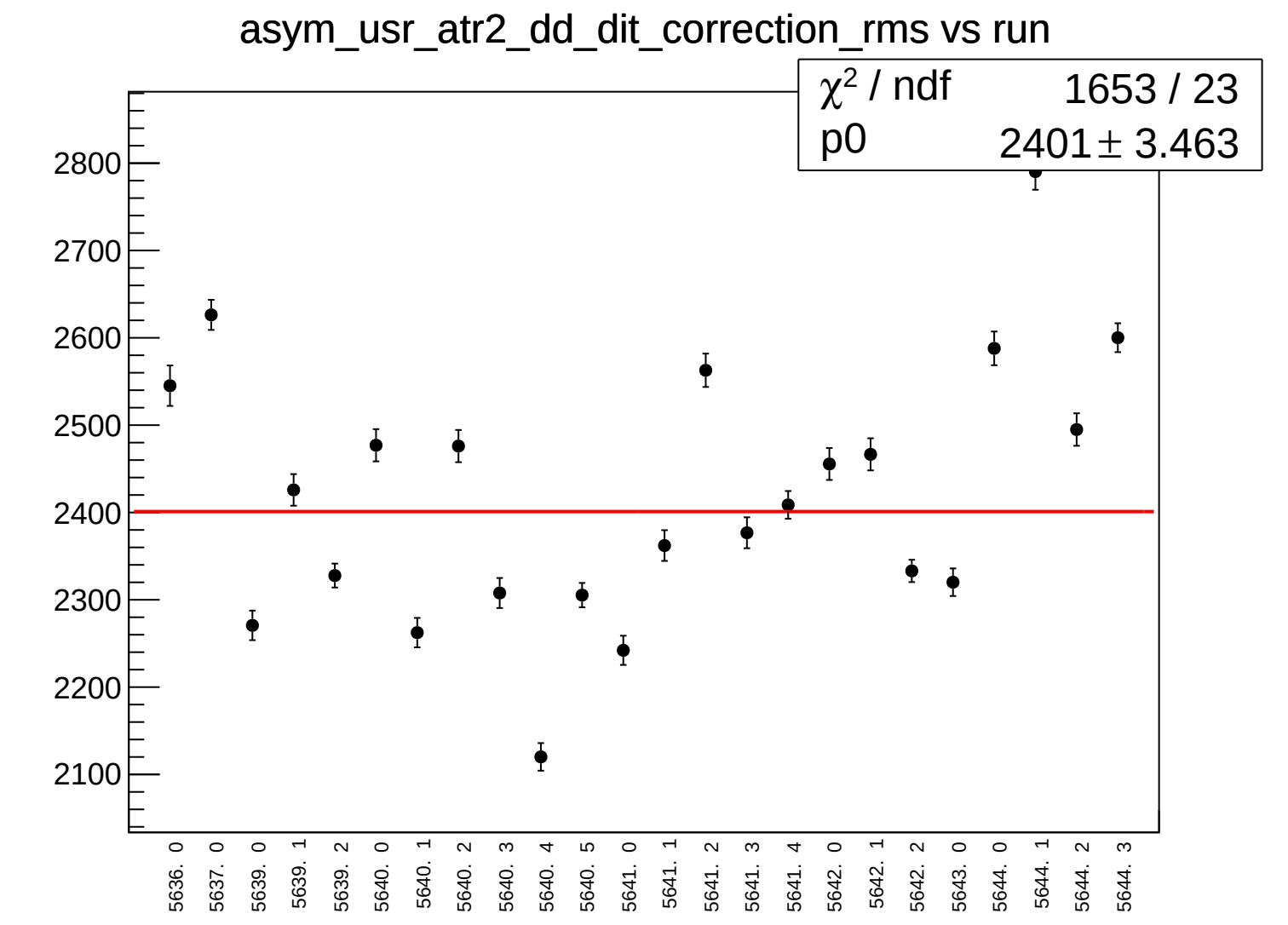

pull1D
Entries 24
Mean 0.02313
Std Dev 0.7165
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

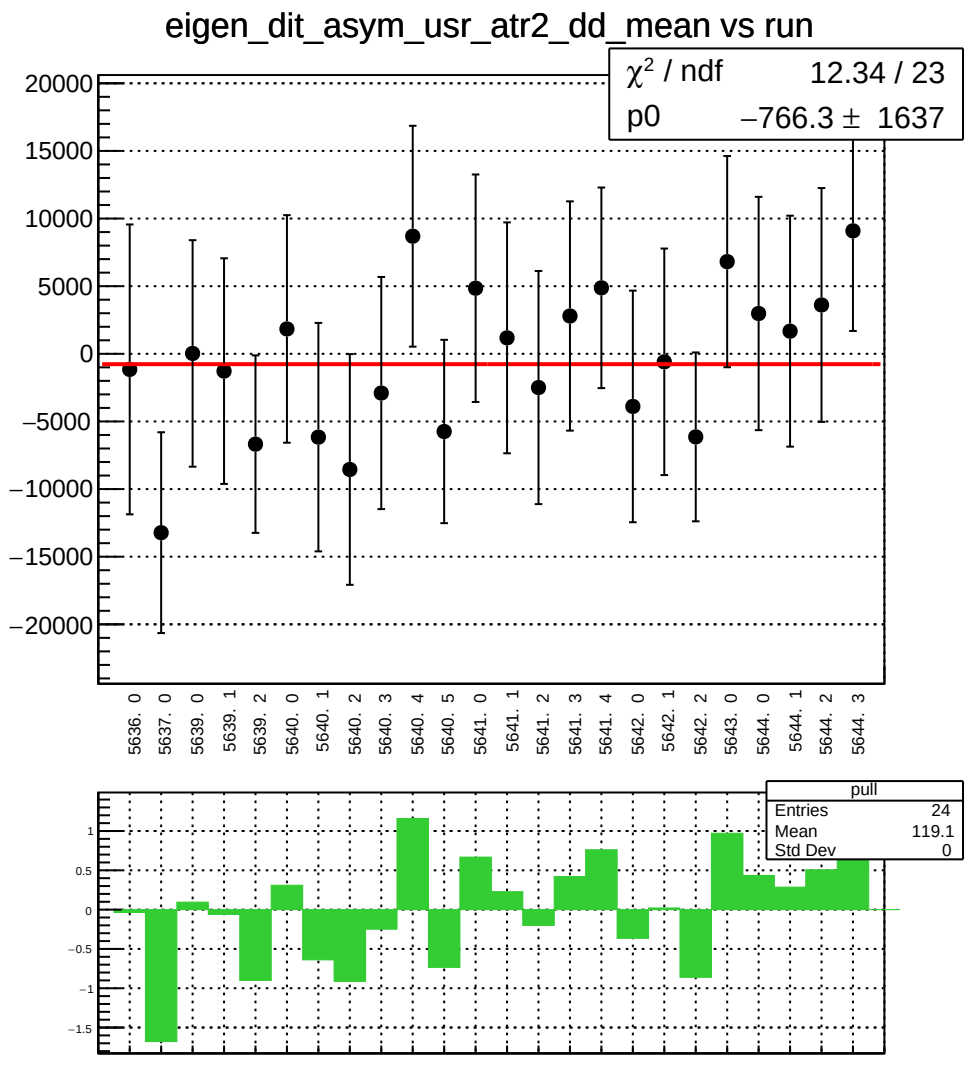

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 111.7 / 23
p0 803.7 ± 1.158
840
830
820
810
800
790
780
770
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

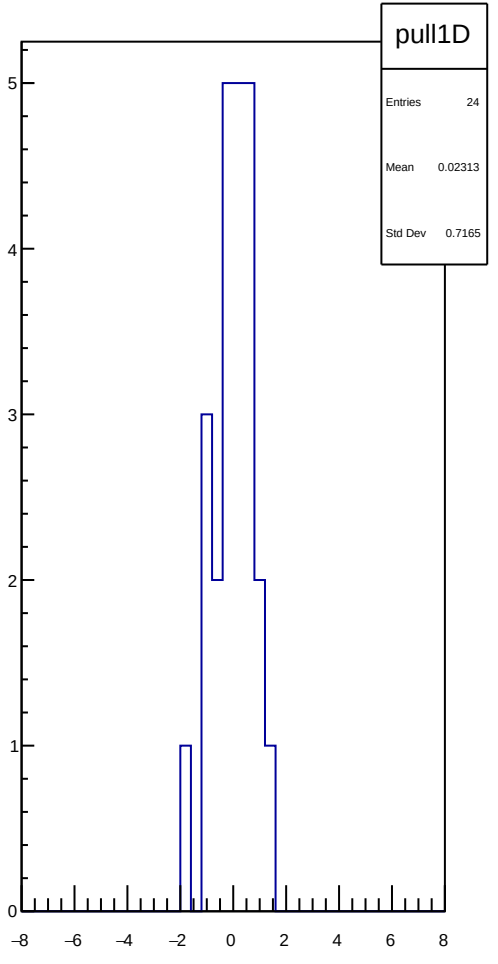

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 20.55 / 23
p0 3236 ± 4898
100
80
60
40
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

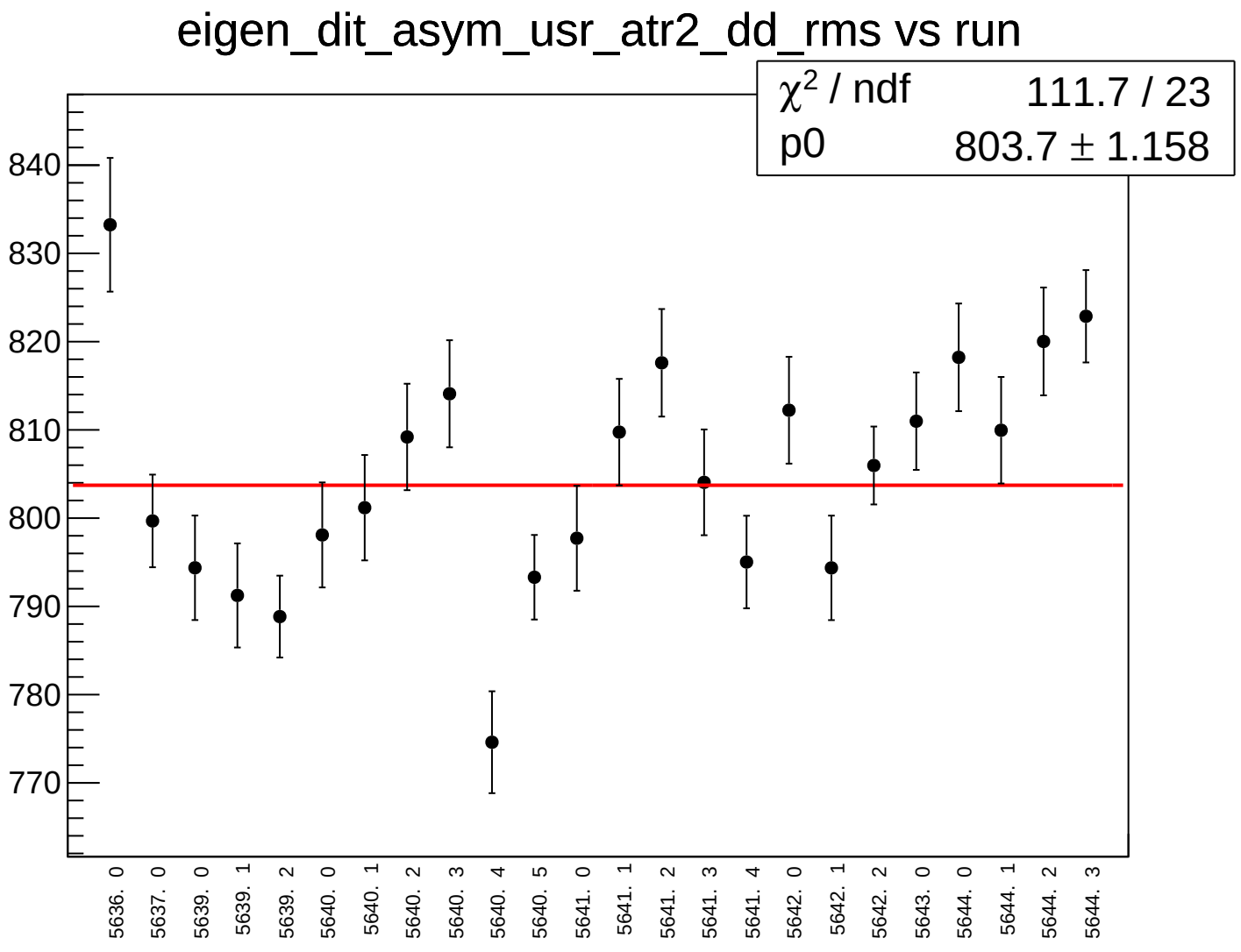

pull
Entries 24
Mean −73.89
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean 0.02834
Std Dev 0.9249
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 1653 / 23
p0 2401 ± 3.463
2800
2700
2600
2500
2400
2300
2200
2100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 12.34 / 23
p0 −766.3 ± 1637
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 119.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean 0.02313
Std Dev 0.7165
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 111.7 / 23
p0 803.7 ± 1.158
840
830
820
810
800
790
780
770
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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5642. 0
5642. 1
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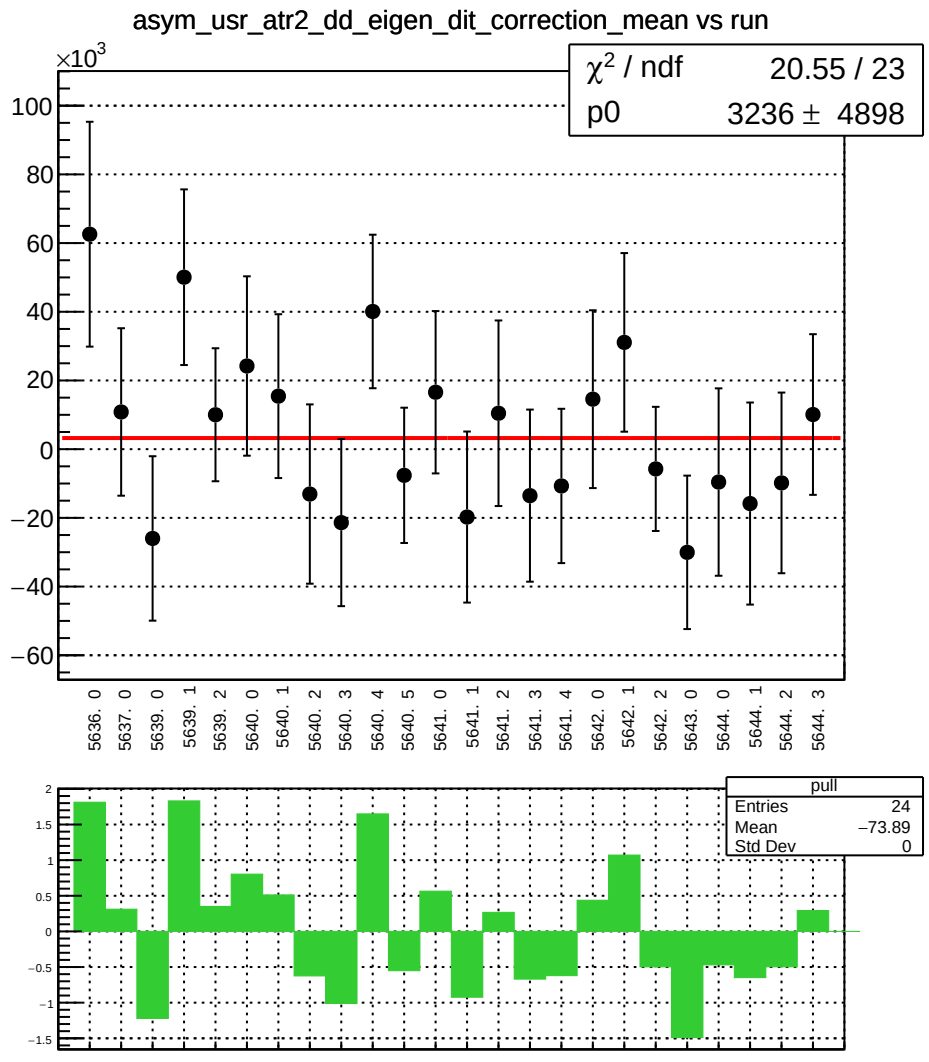
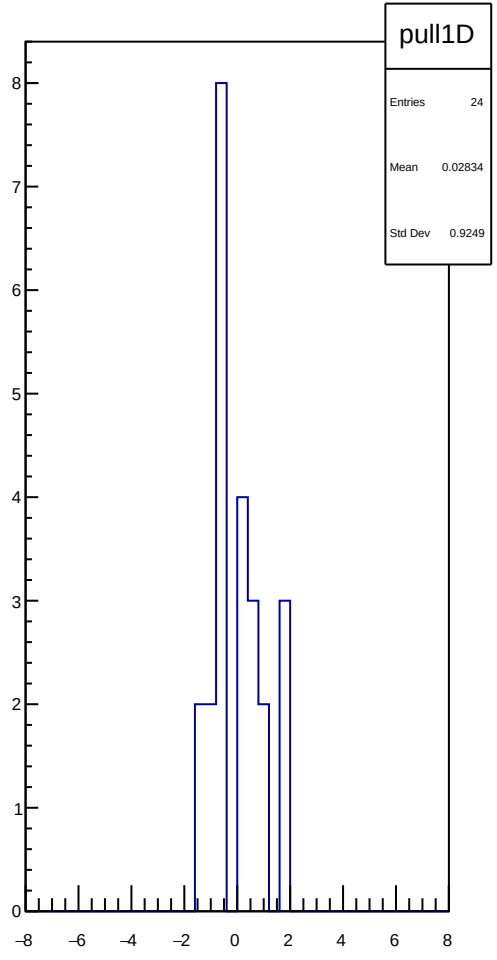
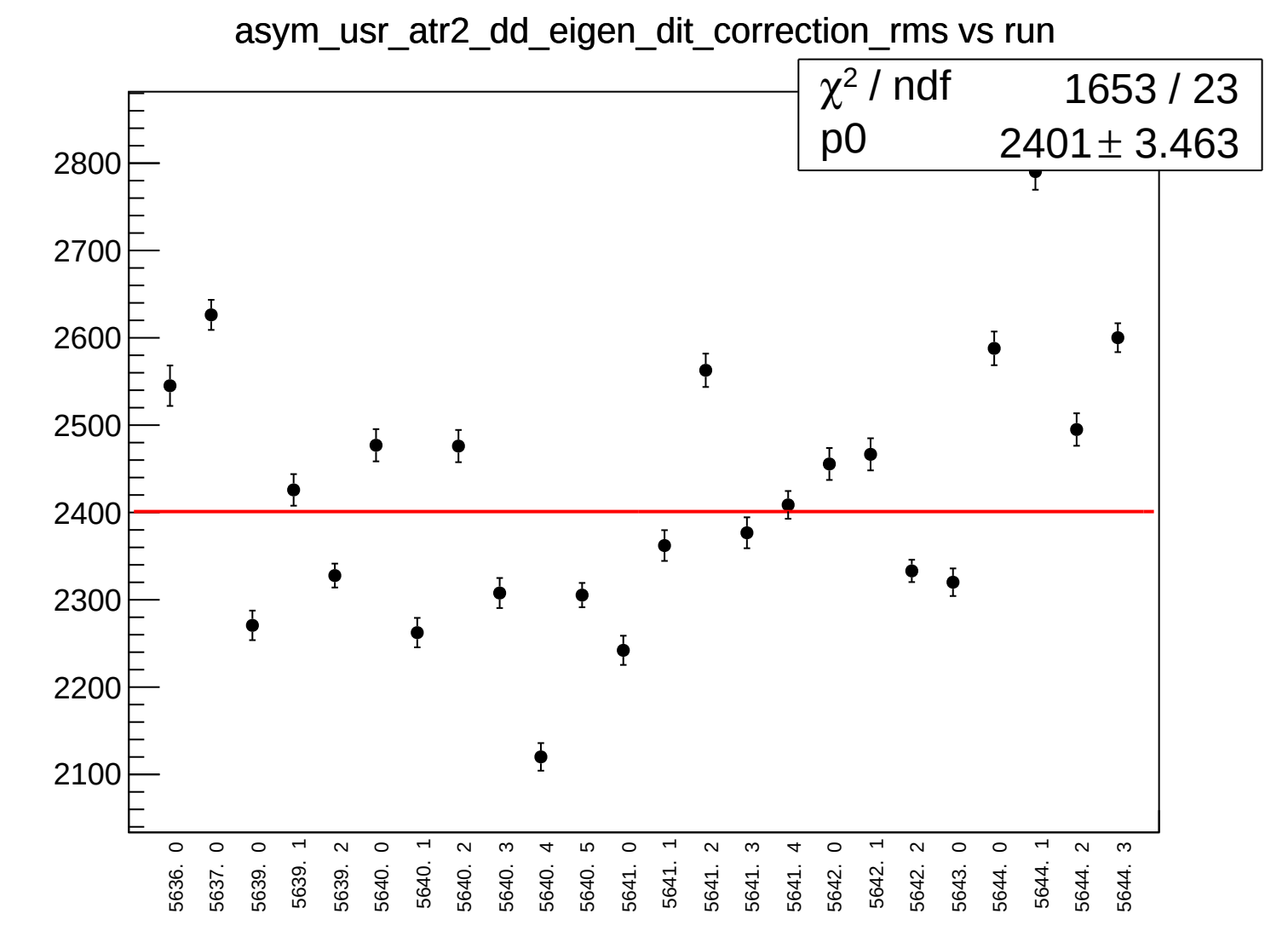
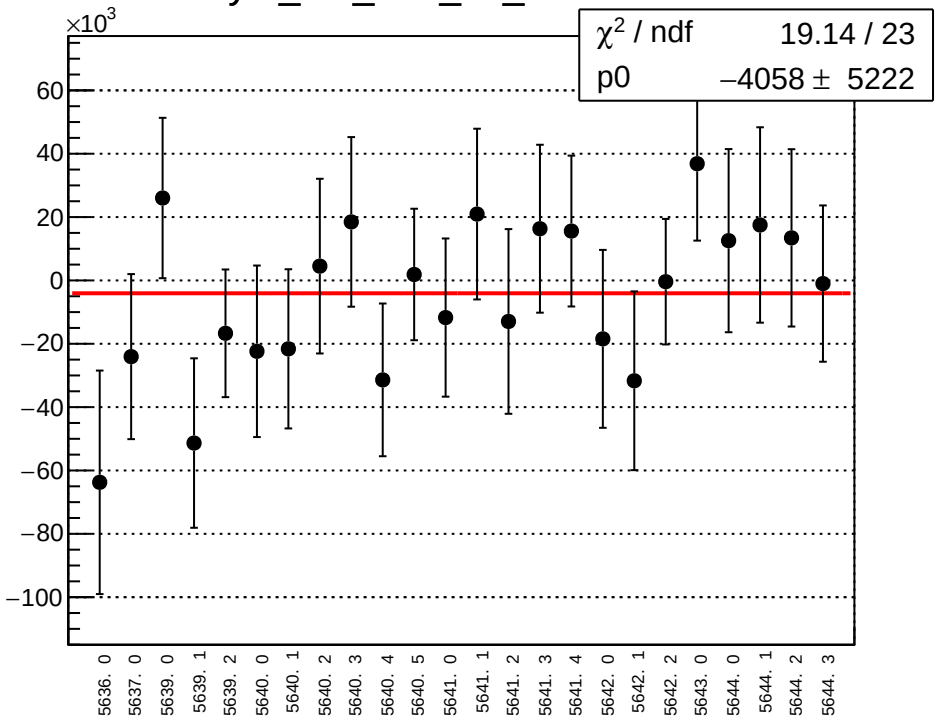
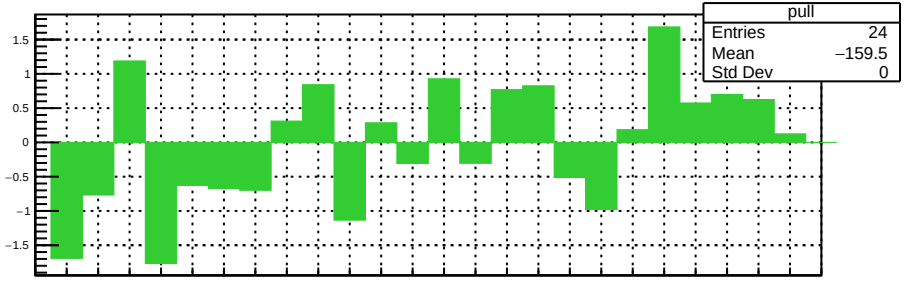
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

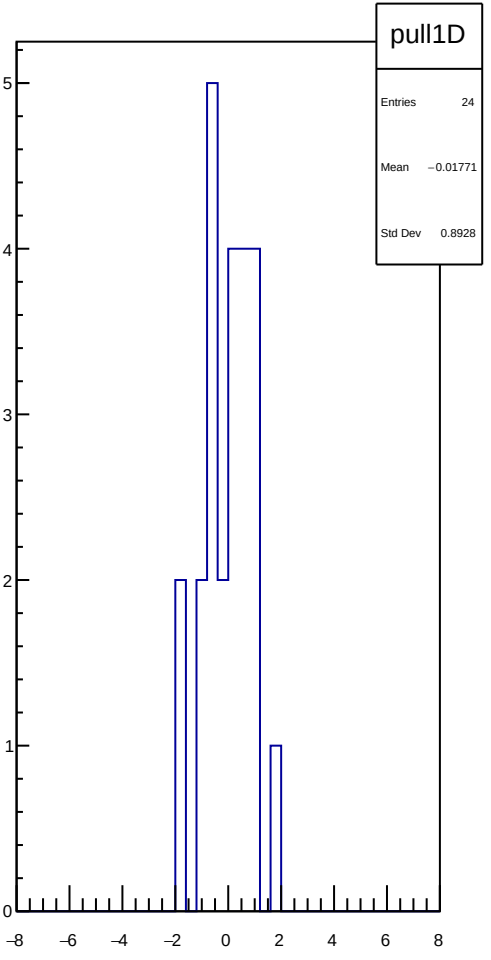

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 20.55 / 23
p0 3236 ± 4898
100
80
60
40
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −73.89
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

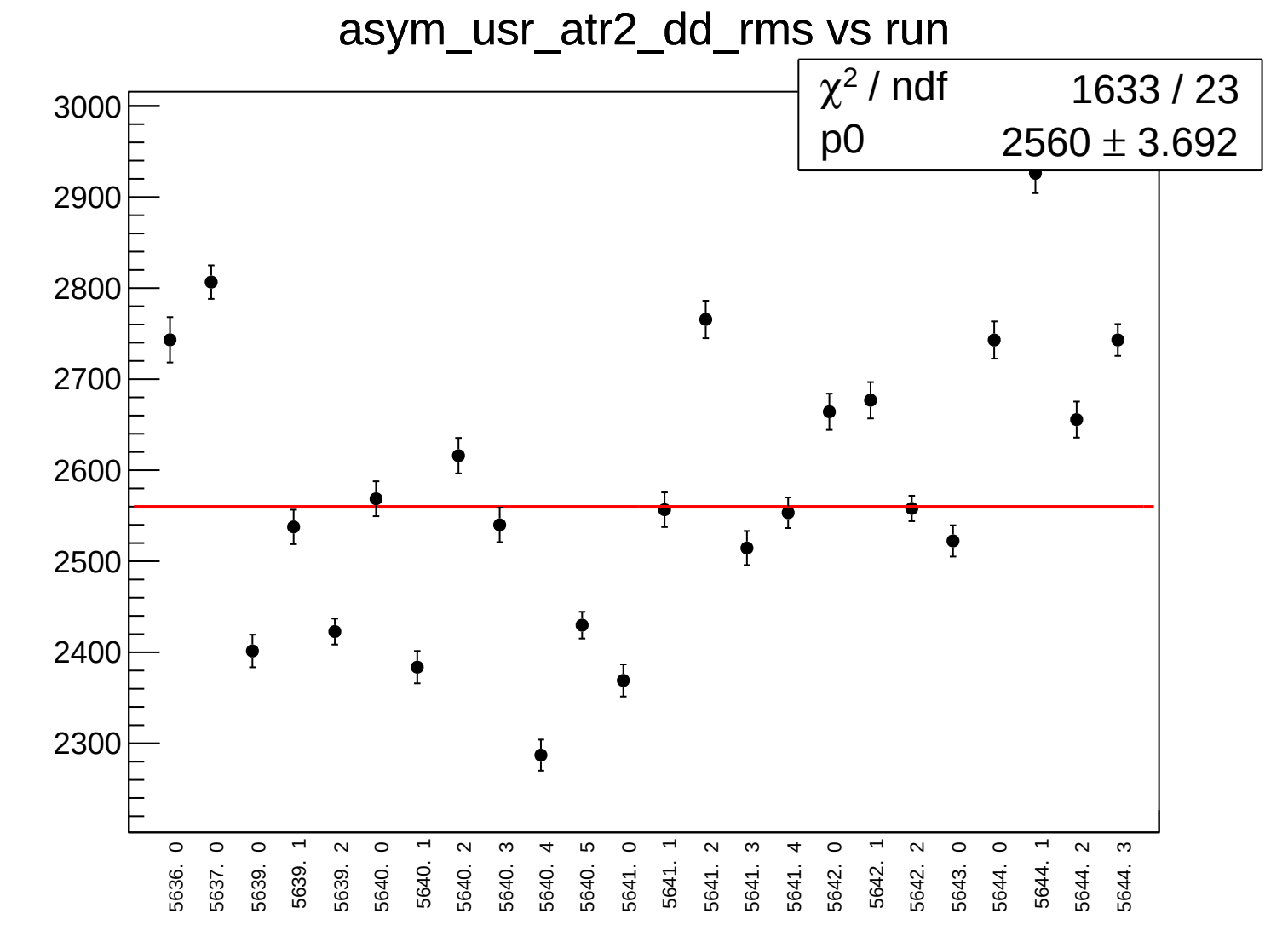

pull1D
Entries 24
Mean 0.02834
Std Dev 0.9249
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

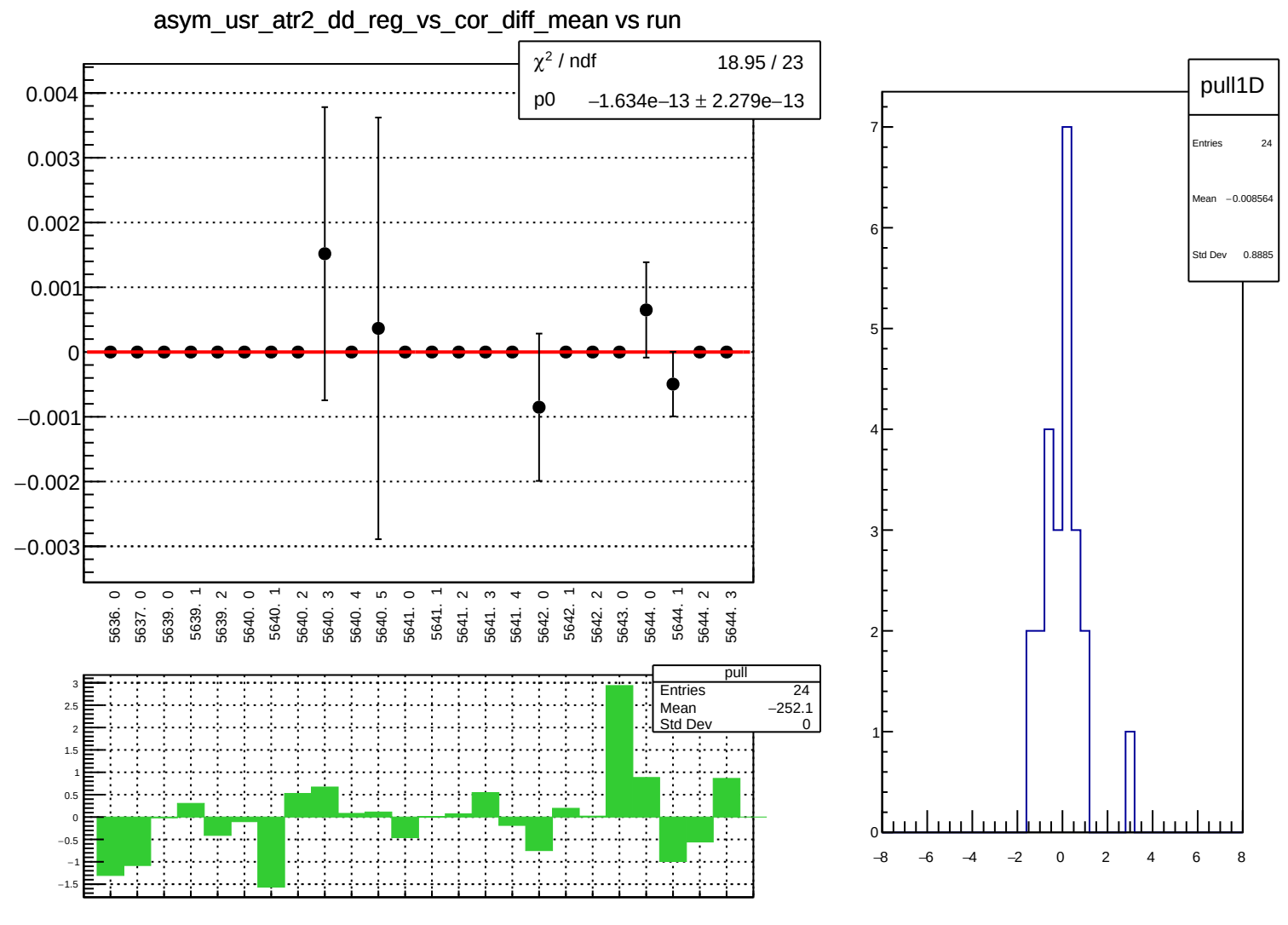

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1653 / 23
p0 2401 ± 3.463
2800
2700
2600
2500
2400
2300
2200
2100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

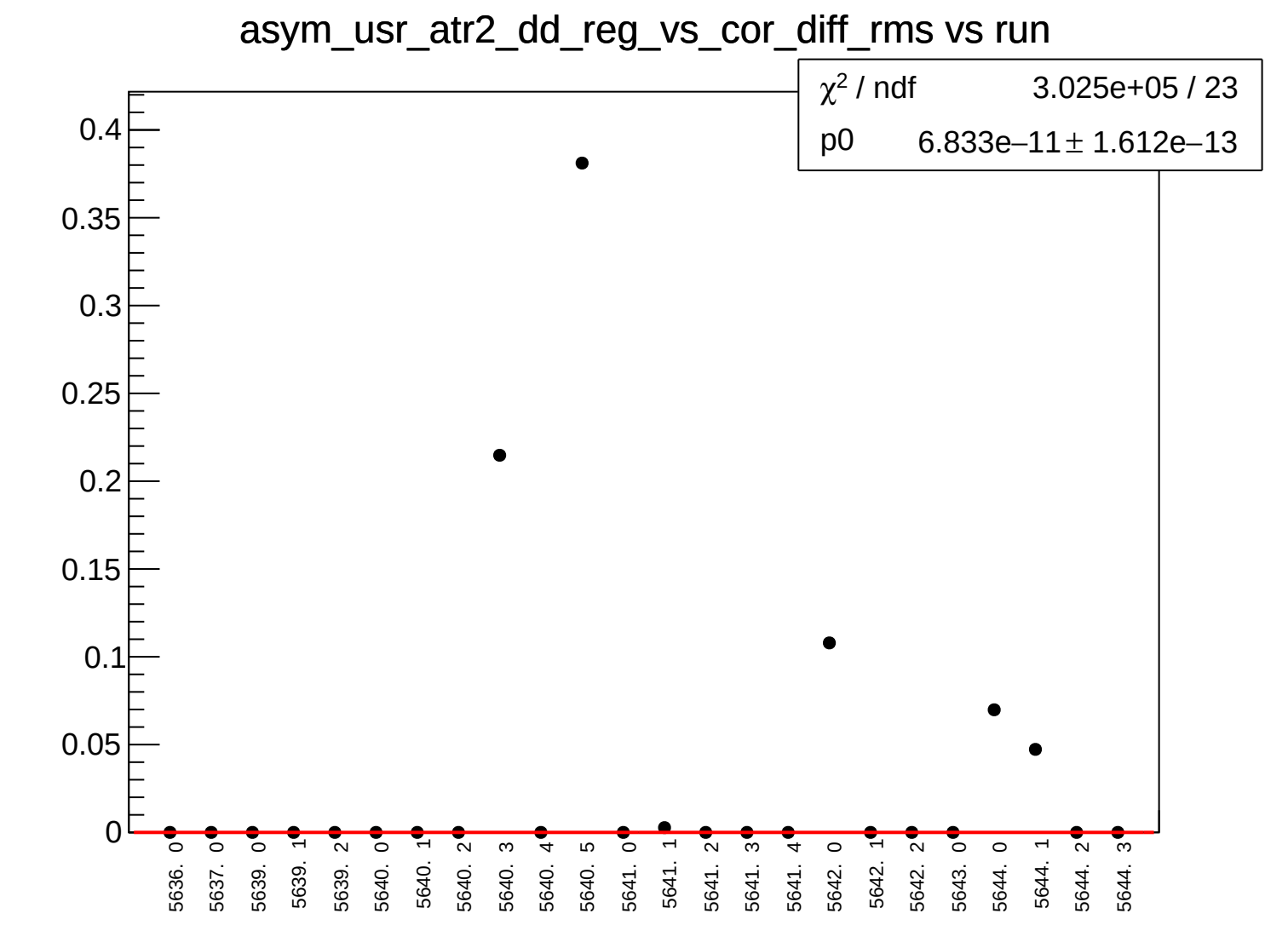

asym_usr_atr2_dd_mean vs run
×10^3
χ^2 / ndf 19.14 / 23
p0 −4058 ± 5222
60
40
20
0
−20
−40
−60
−80
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

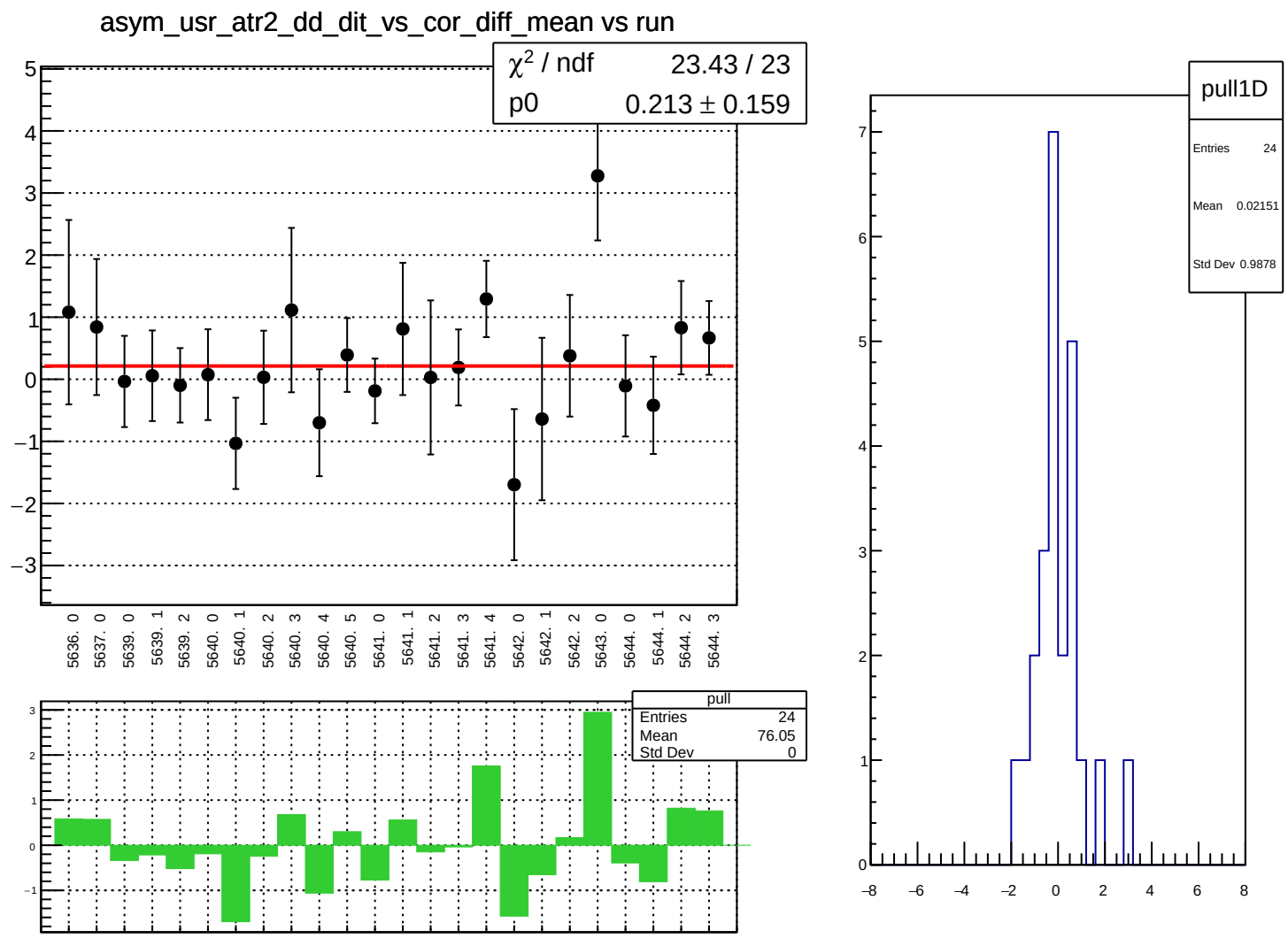

pull
Entries 24
Mean −159.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

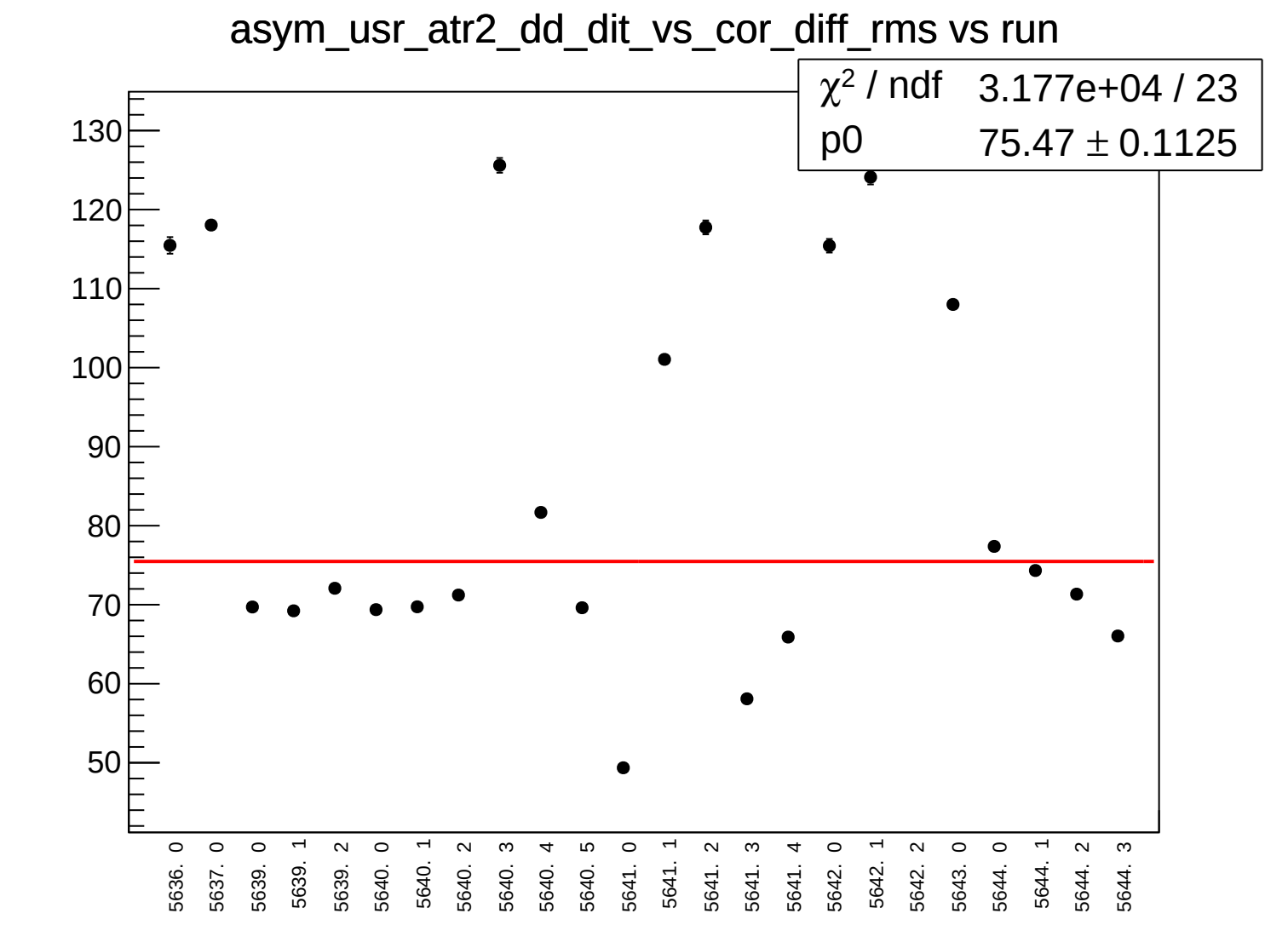

pull1D
Entries 24
Mean −0.01771
Std Dev 0.8928
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

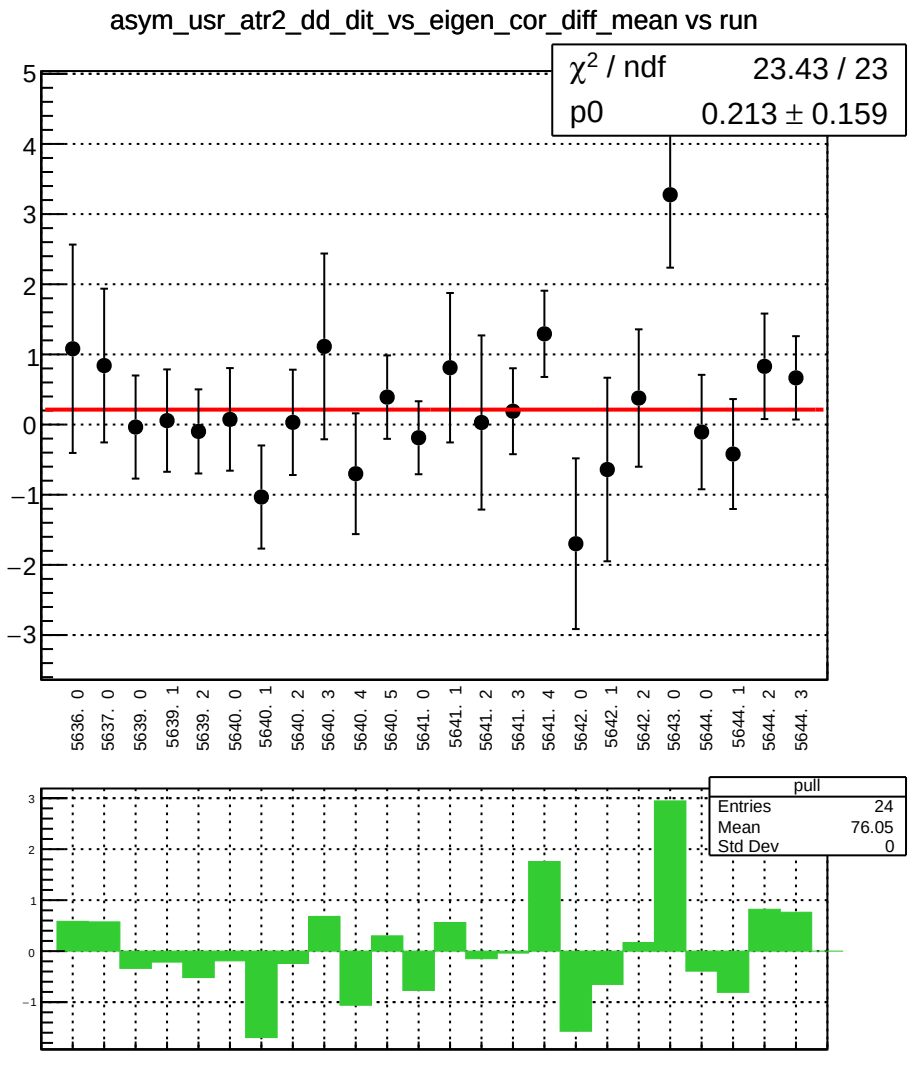

asym_usr_atr2_dd_rms vs run
χ² / ndf 1633 / 23
p0 2560 ± 3.692
3000
2900
2800
2700
2600
2500
2400
2300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

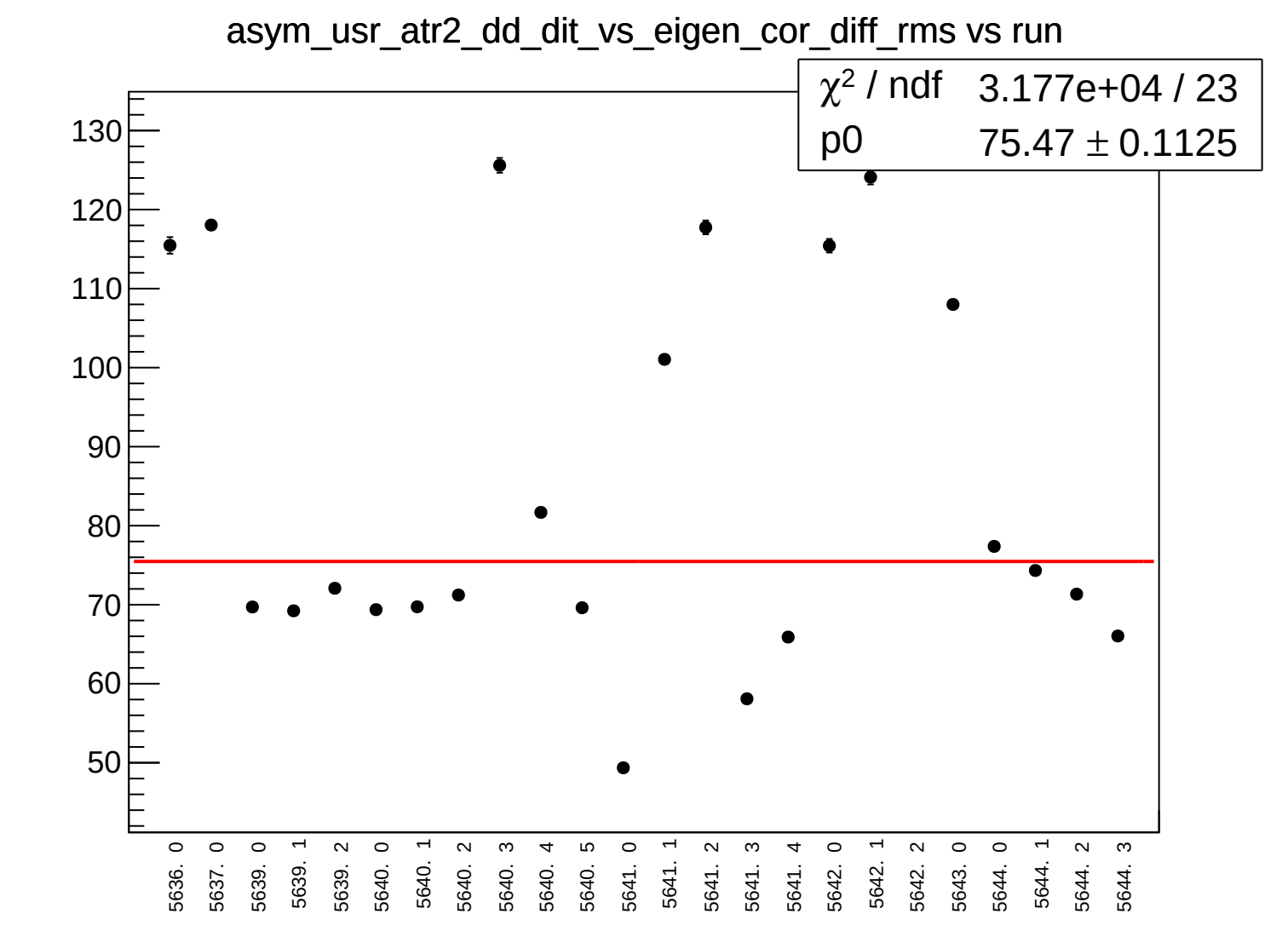

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 18.95 / 23
p0 −1.634e−13 ± 2.279e−13
0.004
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −252.1
Std Dev 0
pull1D
Entries 24
Mean −0.008564
Std Dev 0.8885

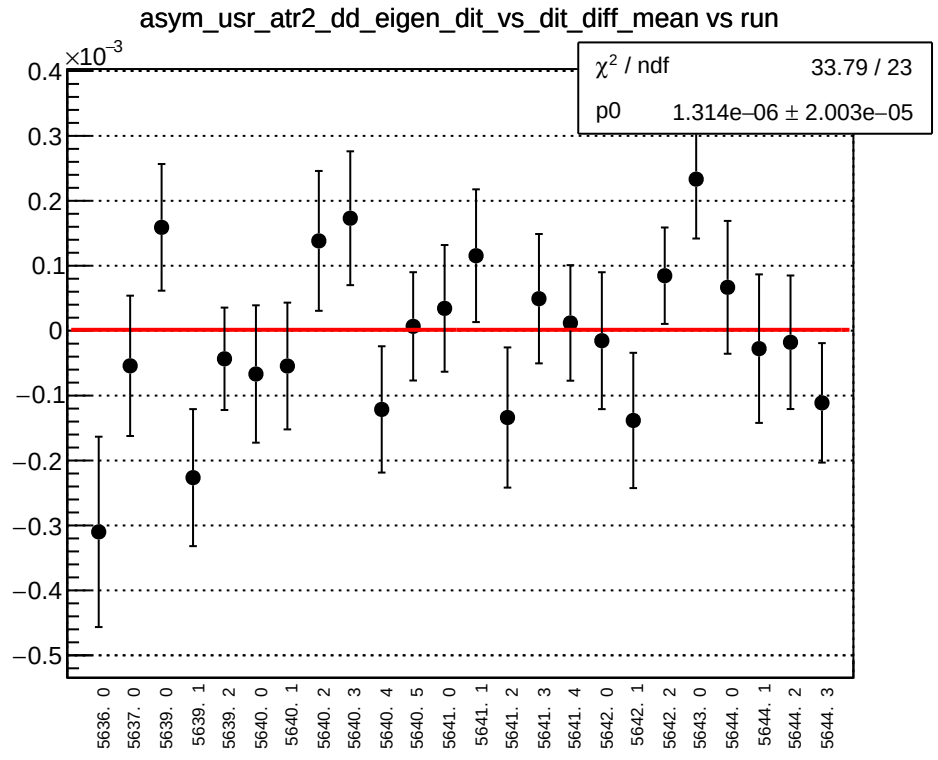

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.025e+05 / 23
p0 6.833e−11 ± 1.612e−13
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

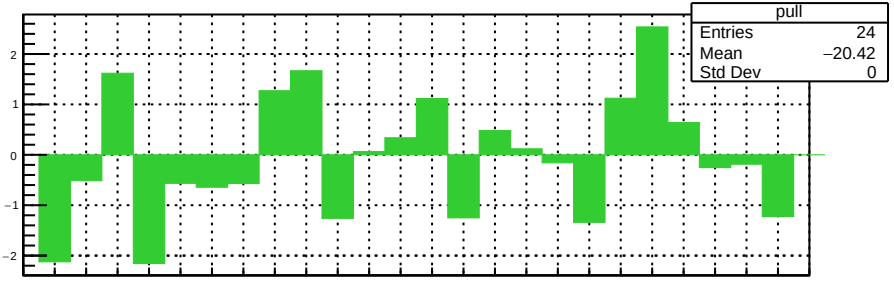

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 23.43 / 23
p0 0.213 ± 0.159
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 76.05
Std Dev 0
pull1D
Entries 24
Mean 0.02151
Std Dev 0.9878

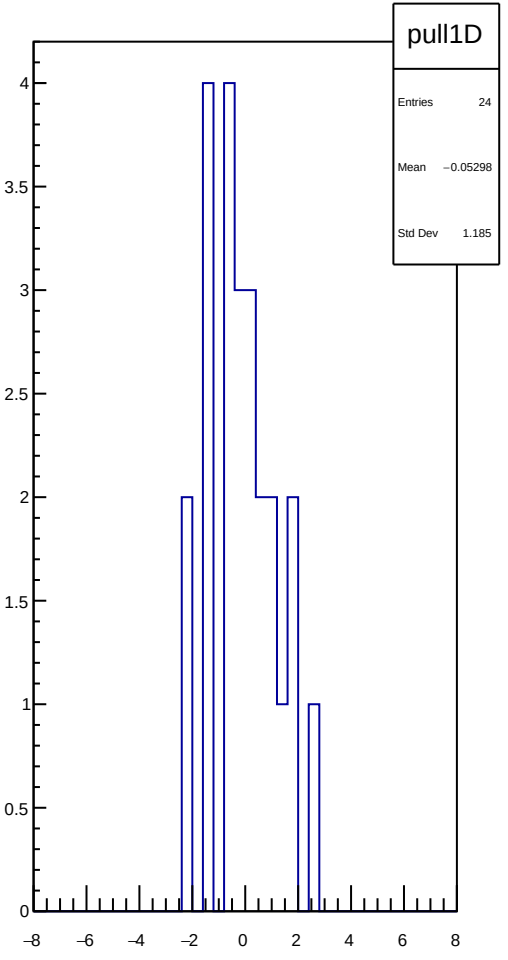

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.177e+04 / 23
p0 75.47 ± 0.1125
130
120
110
100
90
80
70
60
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

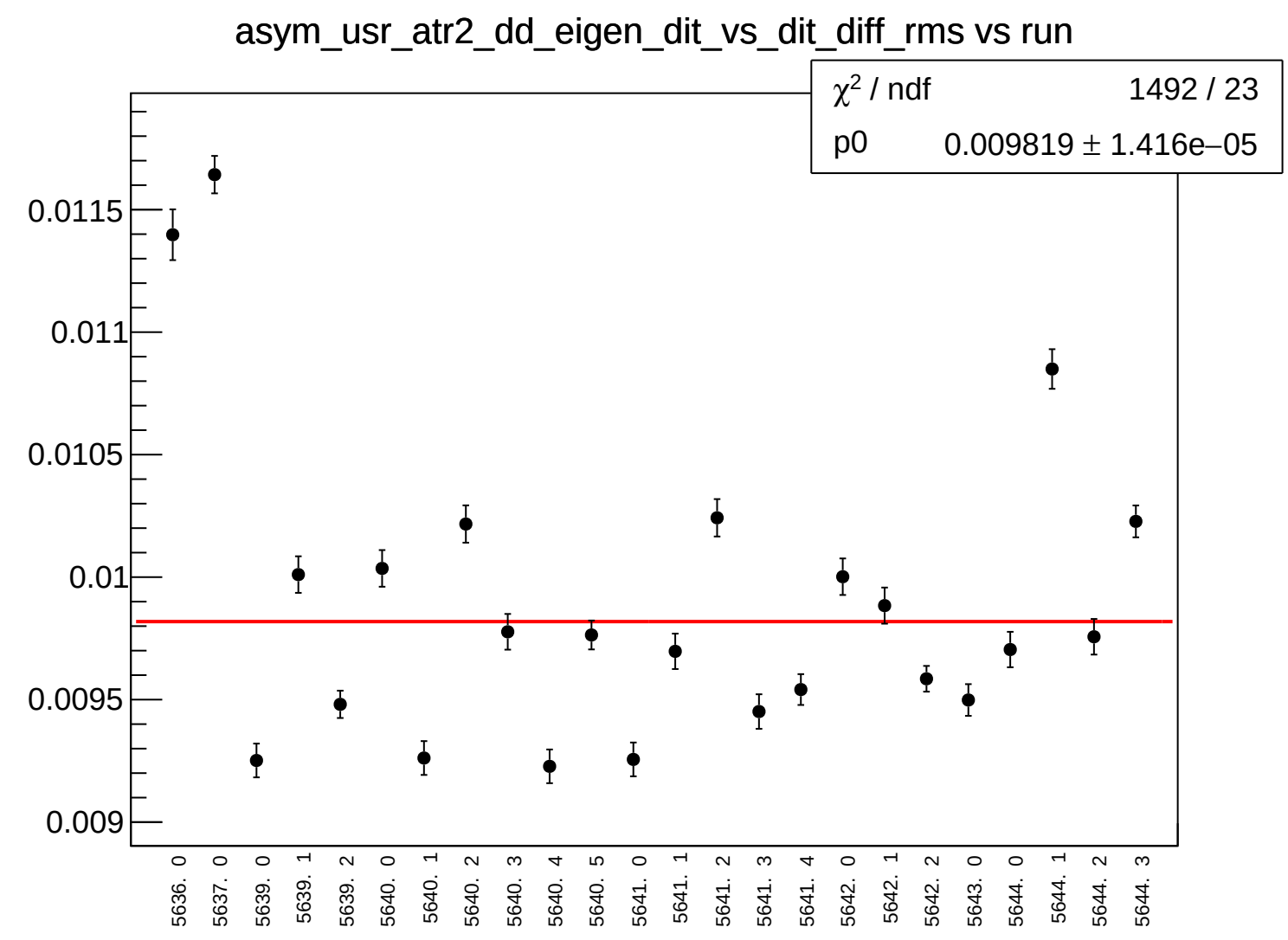

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 23.43 / 23
p0 0.213 ± 0.159
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 76.05
Std Dev 0
pull1D
Entries 24
Mean 0.02151
Std Dev 0.9878

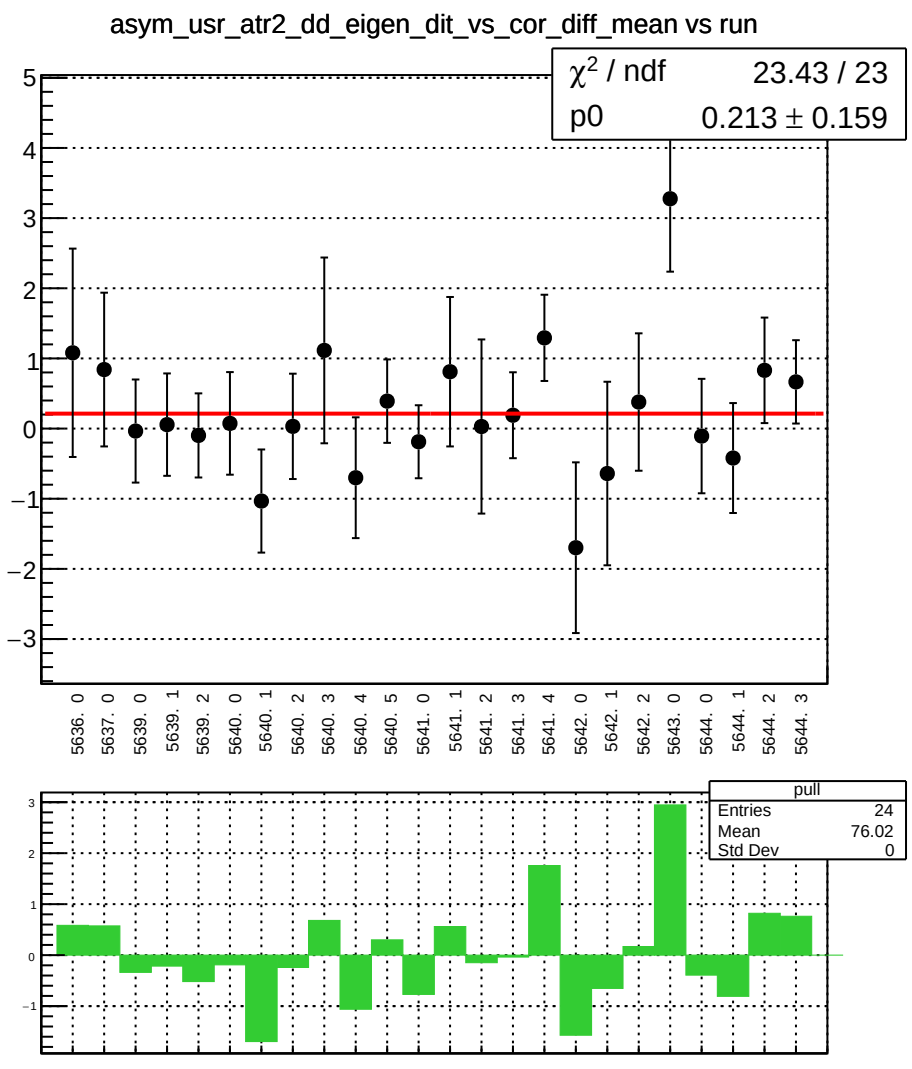

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.177e+04 / 23
p0 75.47 ± 0.1125
130
120
110
100
90
80
70
60
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

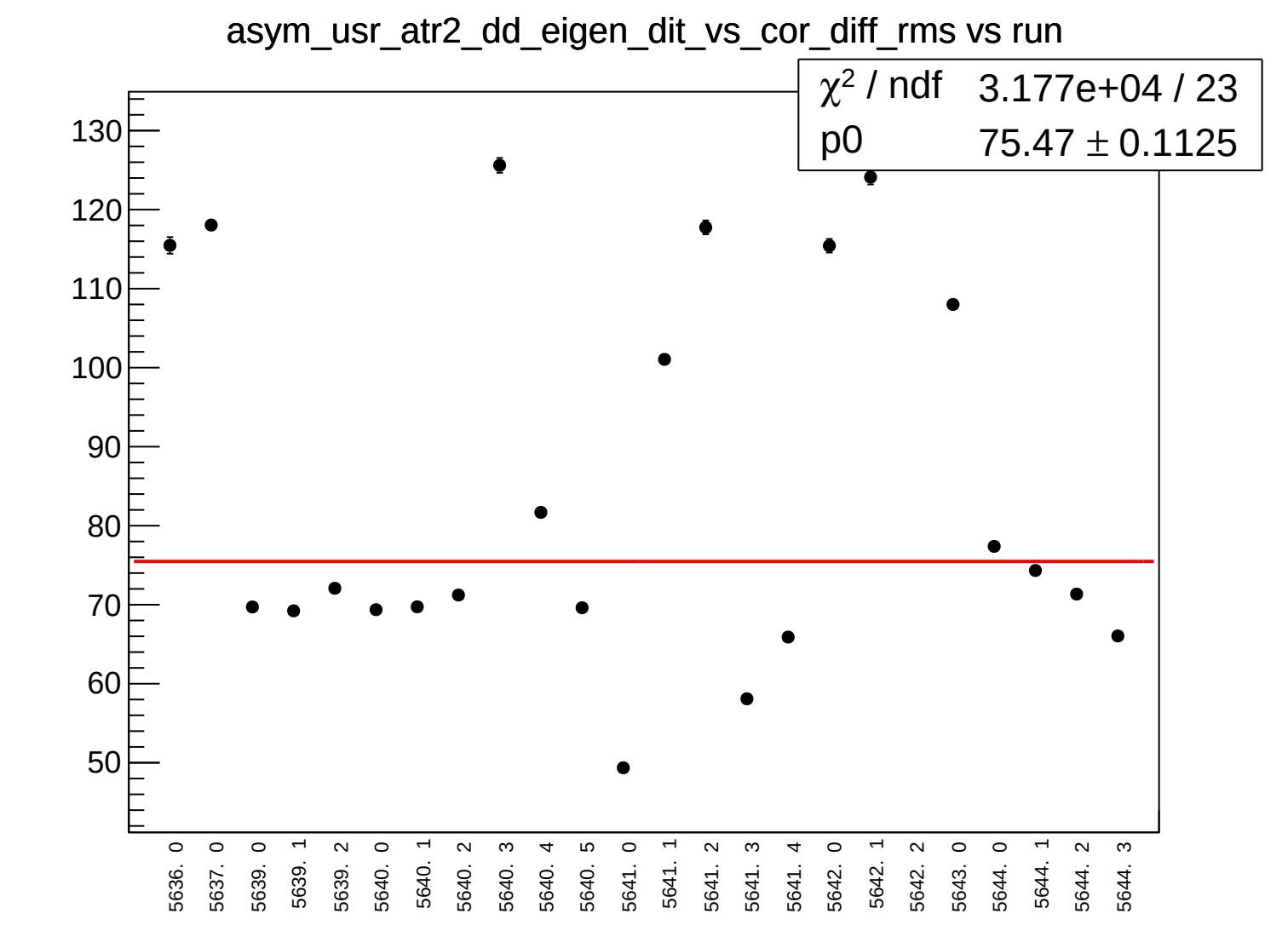

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 33.79 / 23
p0 1.314e−06 ± 2.003e−05
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

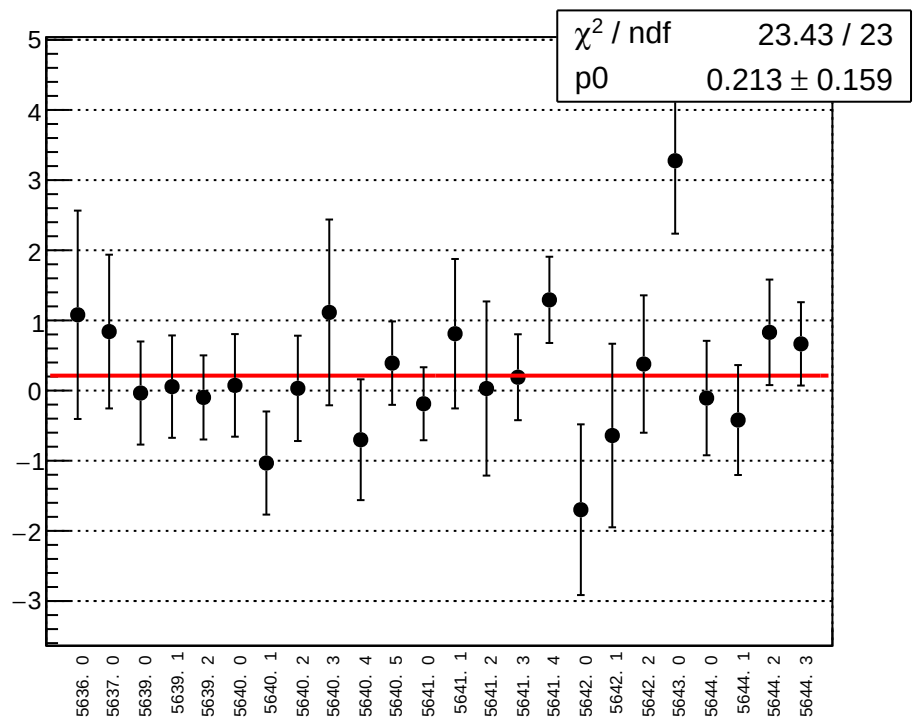

pull
Entries 24
Mean −20.42
Std Dev 0
2
1
0
−1
−2

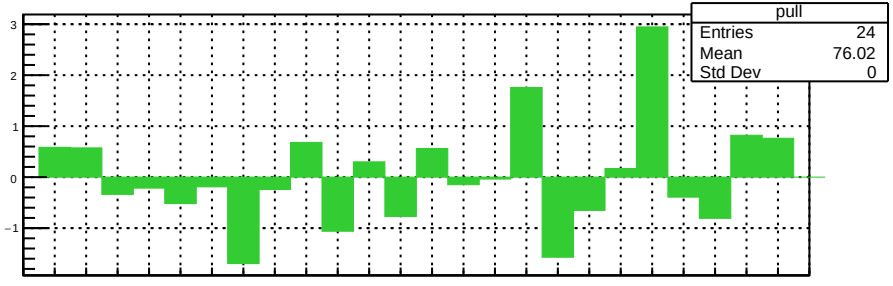

pull1D
Entries 24
Mean −0.05298
Std Dev 1.185
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

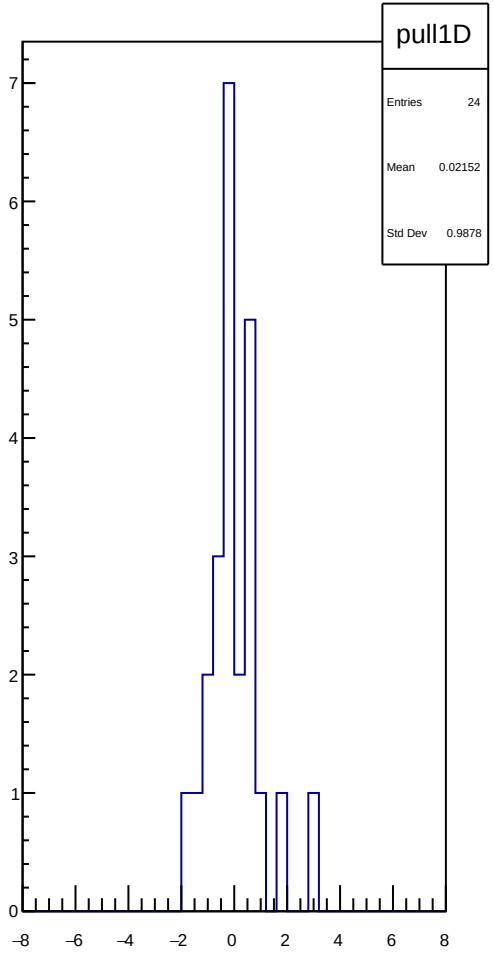

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1492 / 23
p0 0.009819 ± 1.416e−05
0.0115
0.011
0.0105
0.01
0.0095
0.009
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

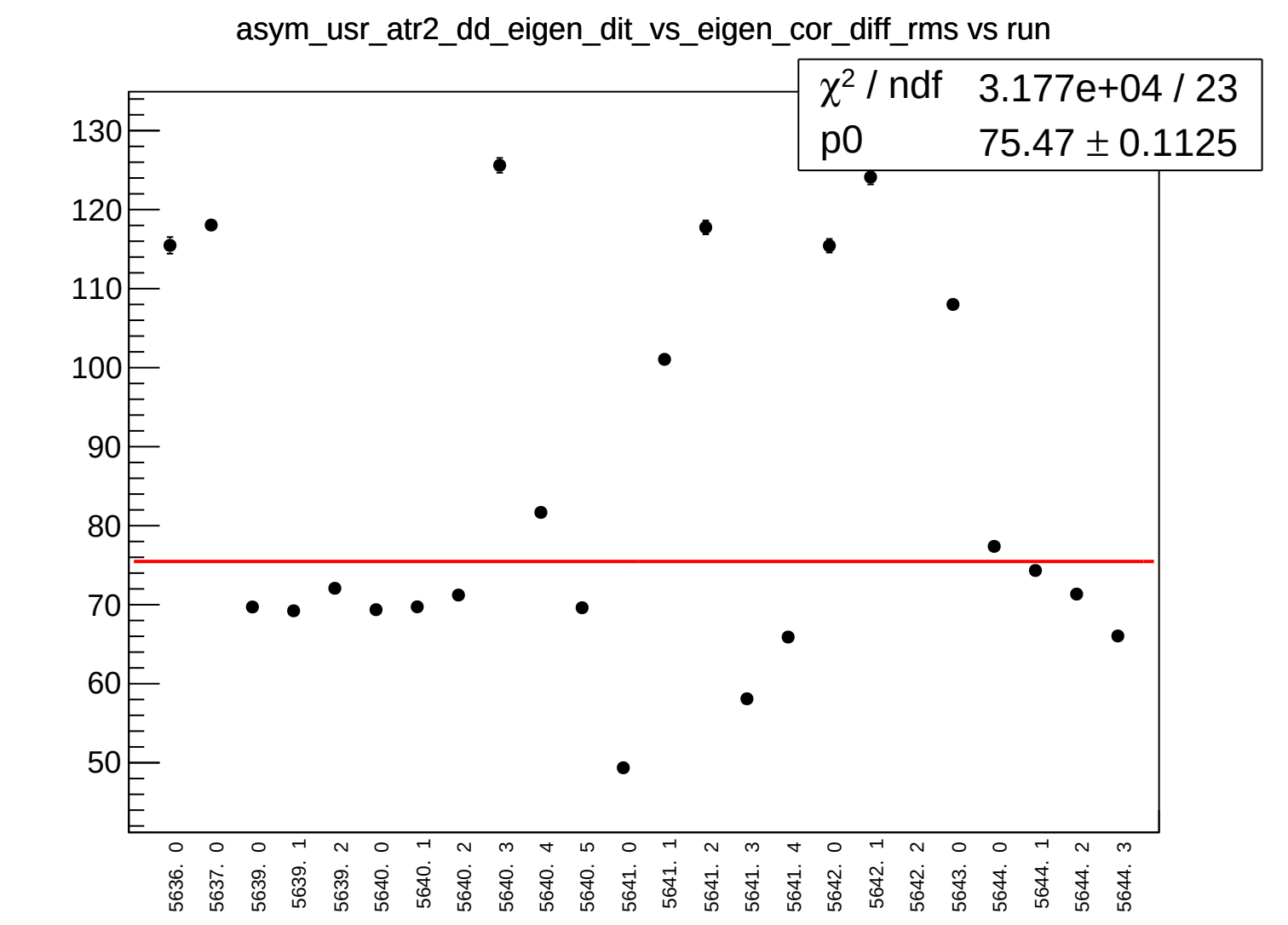

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 23.43 / 23
p0 0.213 ± 0.159
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 76.02
Std Dev 0
pull1D
Entries 24
Mean 0.02152
Std Dev 0.9878

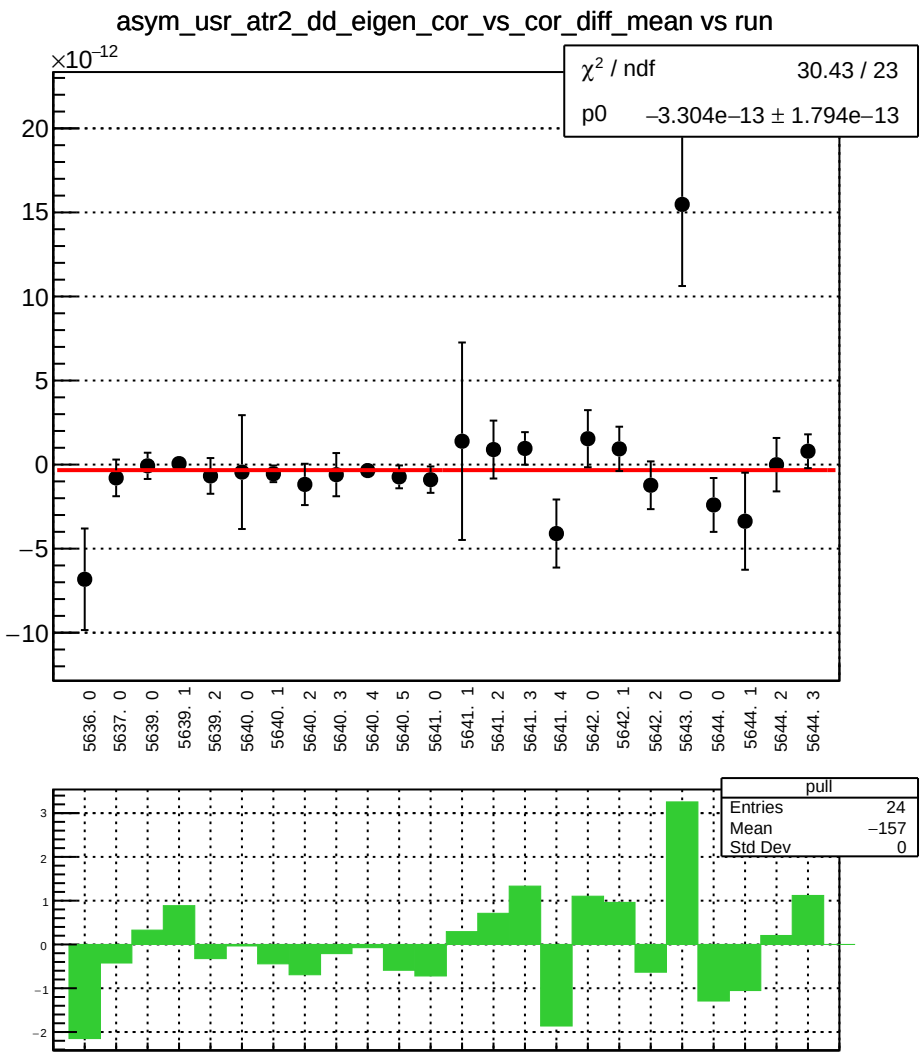

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.177e+04 / 23
p0 75.47 ± 0.1125
130
120
110
100
90
80
70
60
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

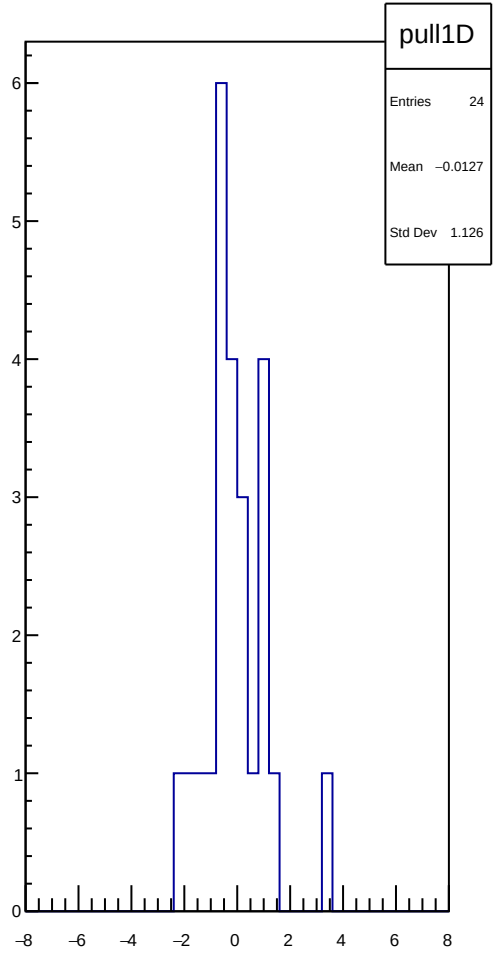

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 23.43 / 23
p0 0.213 ± 0.159
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

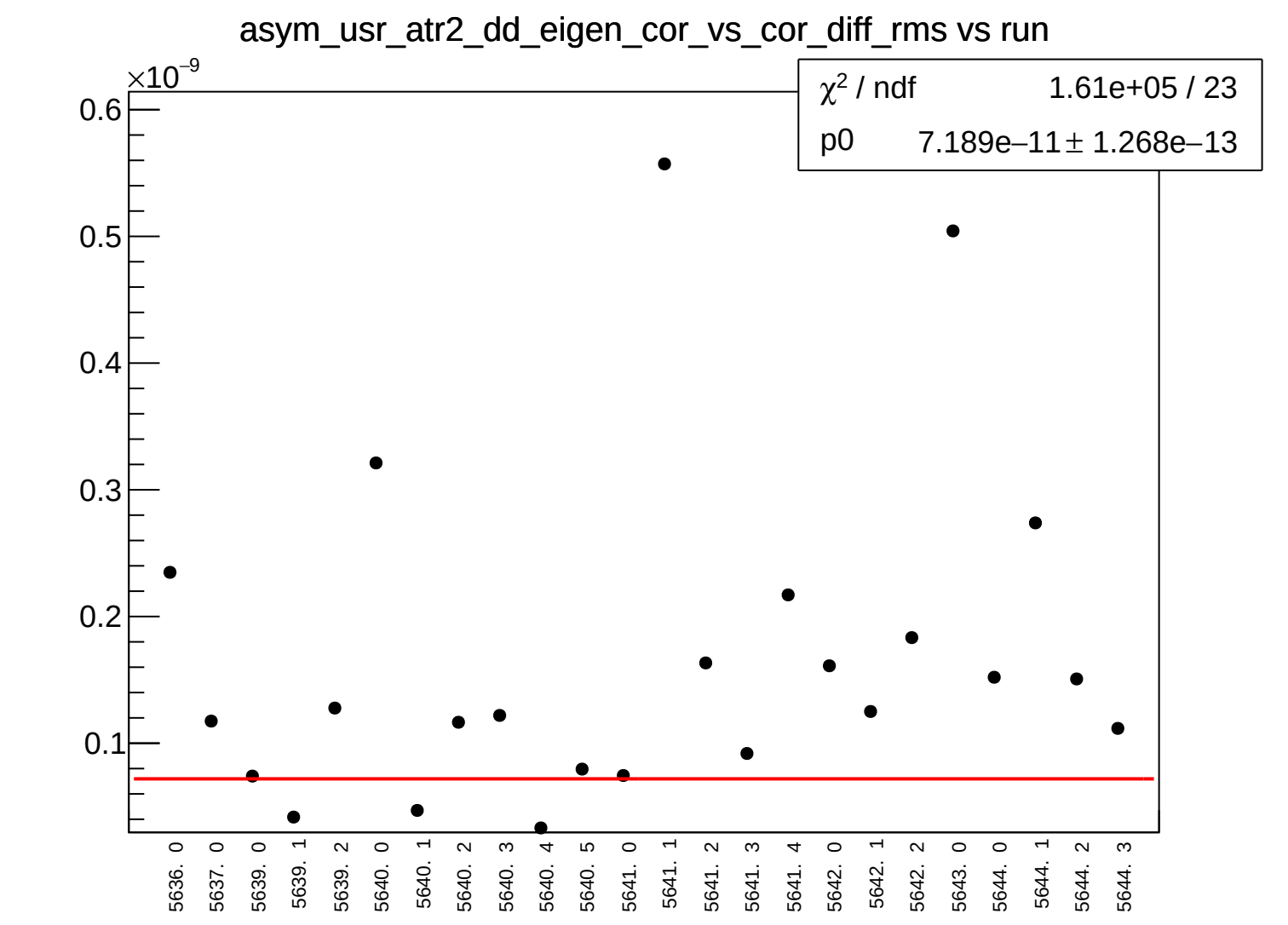

pull
Entries 24
Mean 76.02
Std Dev 0

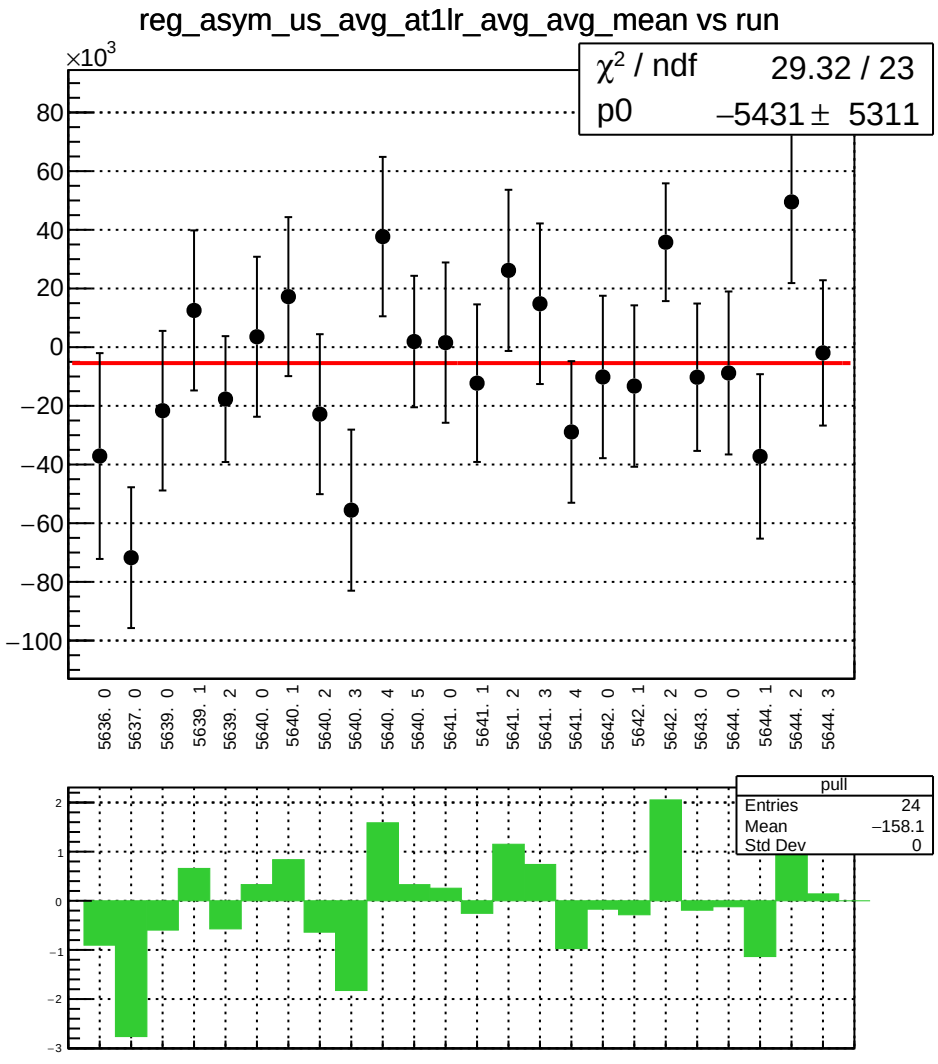

pull1D
Entries 24
Mean 0.02152
Std Dev 0.9878

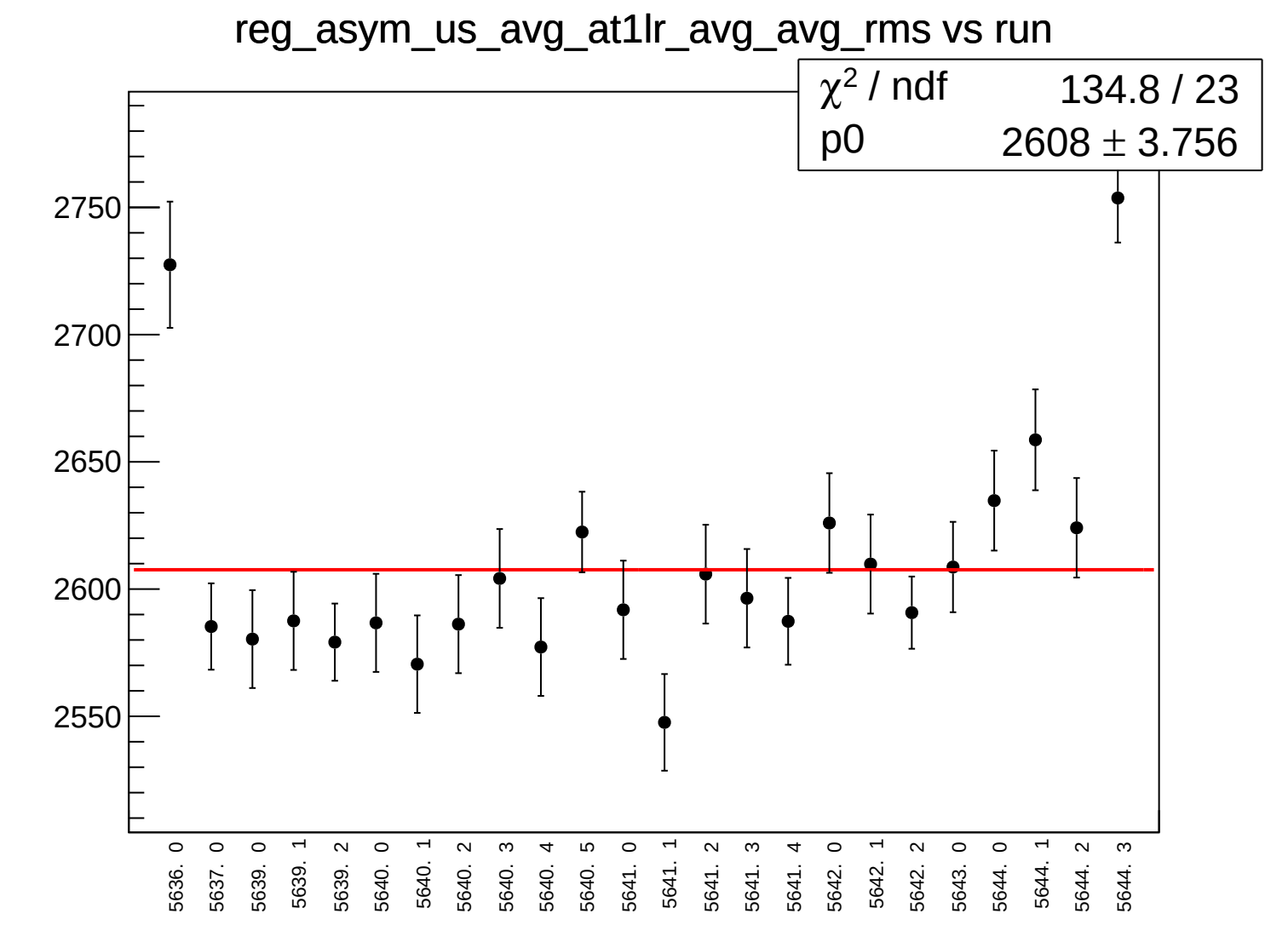

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.177e+04 / 23
p0 75.47 ± 0.1125
130
120
110
100
90
80
70
60
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

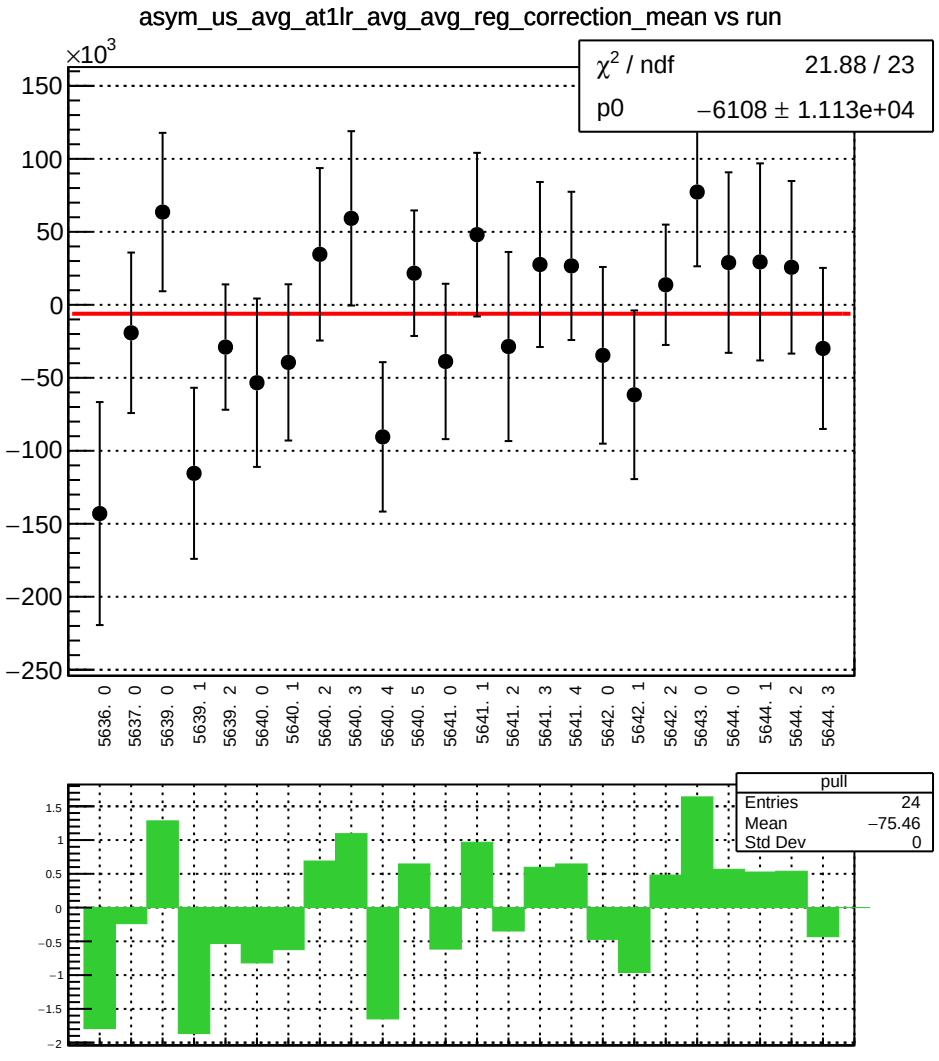

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 30.43 / 23
p0 −3.304e−13 ± 1.794e−13
20
15
10
5
0
−5
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −157
Std Dev 0
3
2
1
0
−1
−2

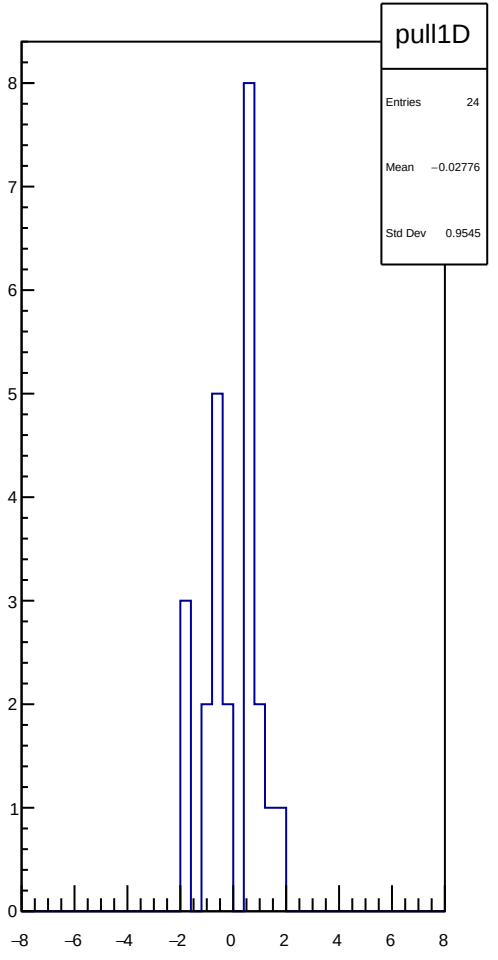

pull1D
Entries 24
Mean −0.0127
Std Dev 1.126
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

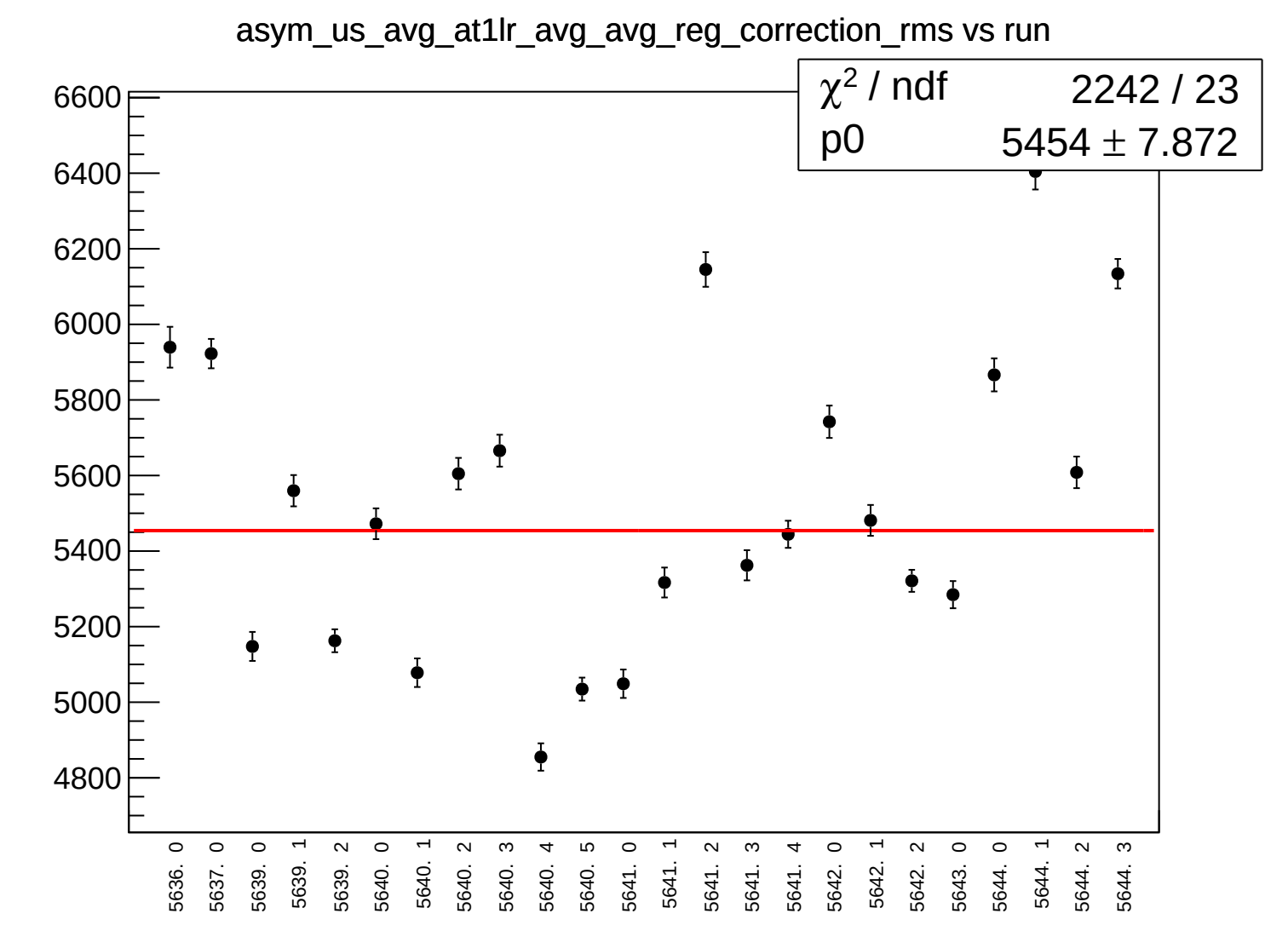

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.61e+05 / 23
p0 7.189e−11 ± 1.268e−13
0.6
0.5
0.4
0.3
0.2
0.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

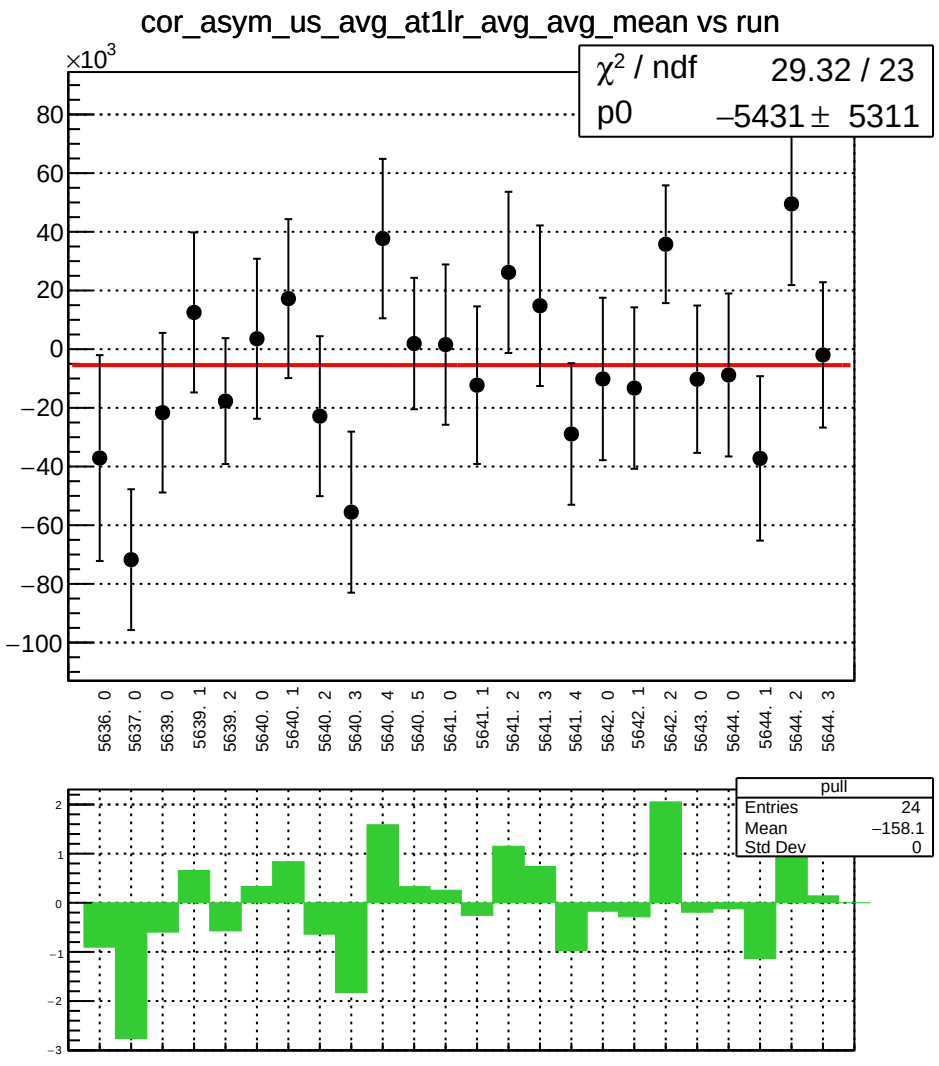

reg_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 29.32 / 23
p0 −5431 ± 5311
80
60
40
20
0
−20
−40
−60
−80
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −158.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean −0.01518
Std Dev 1.105
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

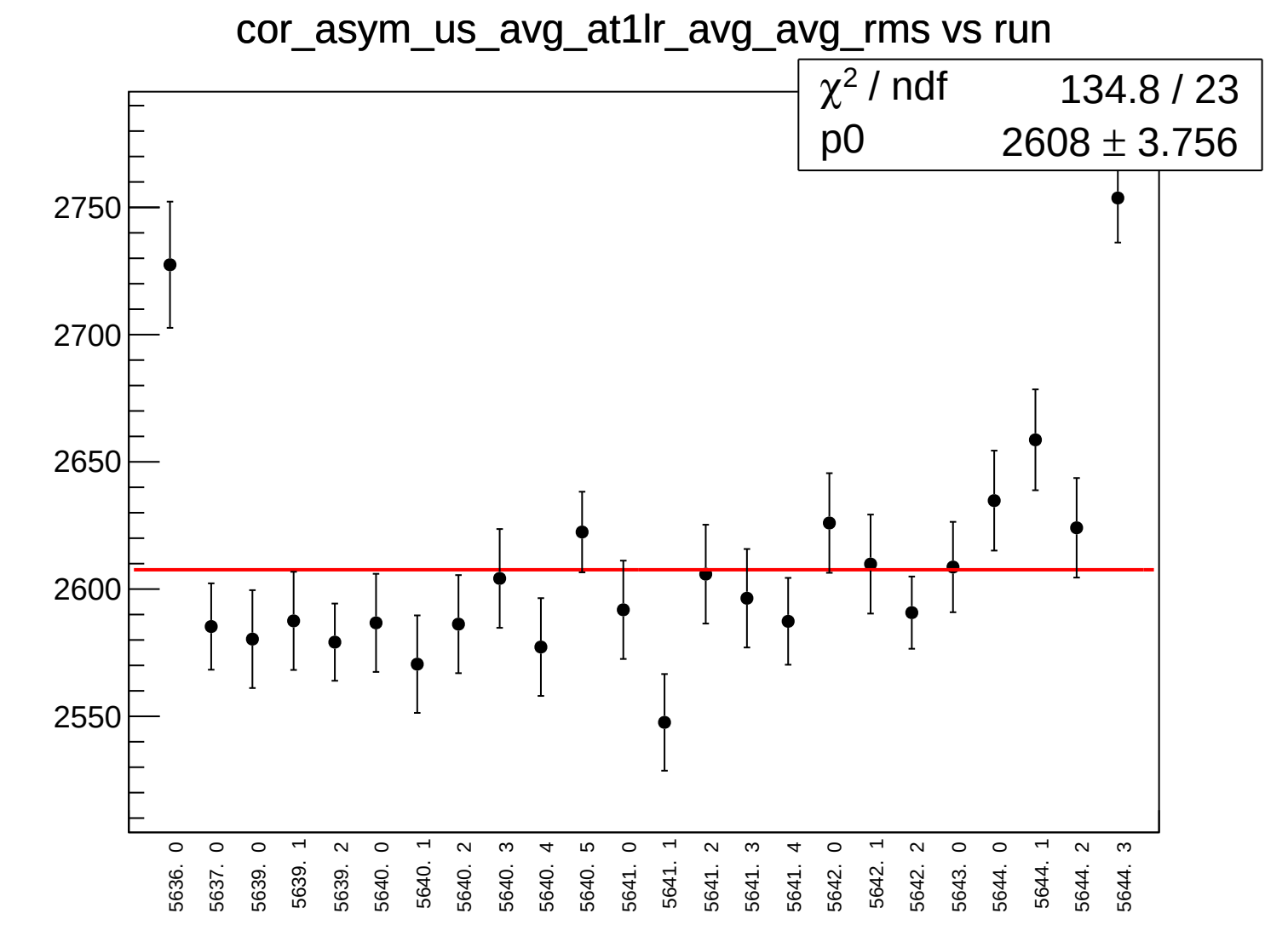

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 134.8 / 23
p0 2608 ± 3.756
2750
2700
2650
2600
2550
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 21.88 / 23
p0 −6108 ± 1.113e+04
150
100
50
0
−50
−100
−150
−200
−250
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −75.46
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.02776
Std Dev 0.9545
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 2242 / 23
p0 5454 ± 7.872
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 29.32 / 23
p0 −5431 ± 5311
80
60
40
20
0
−20
−40
−60
−80
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −158.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean −0.01518
Std Dev 1.105
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 134.8 / 23
p0 2608 ± 3.756
2750
2700
2650
2600
2550
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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5642. 2
5643. 0
5644. 0
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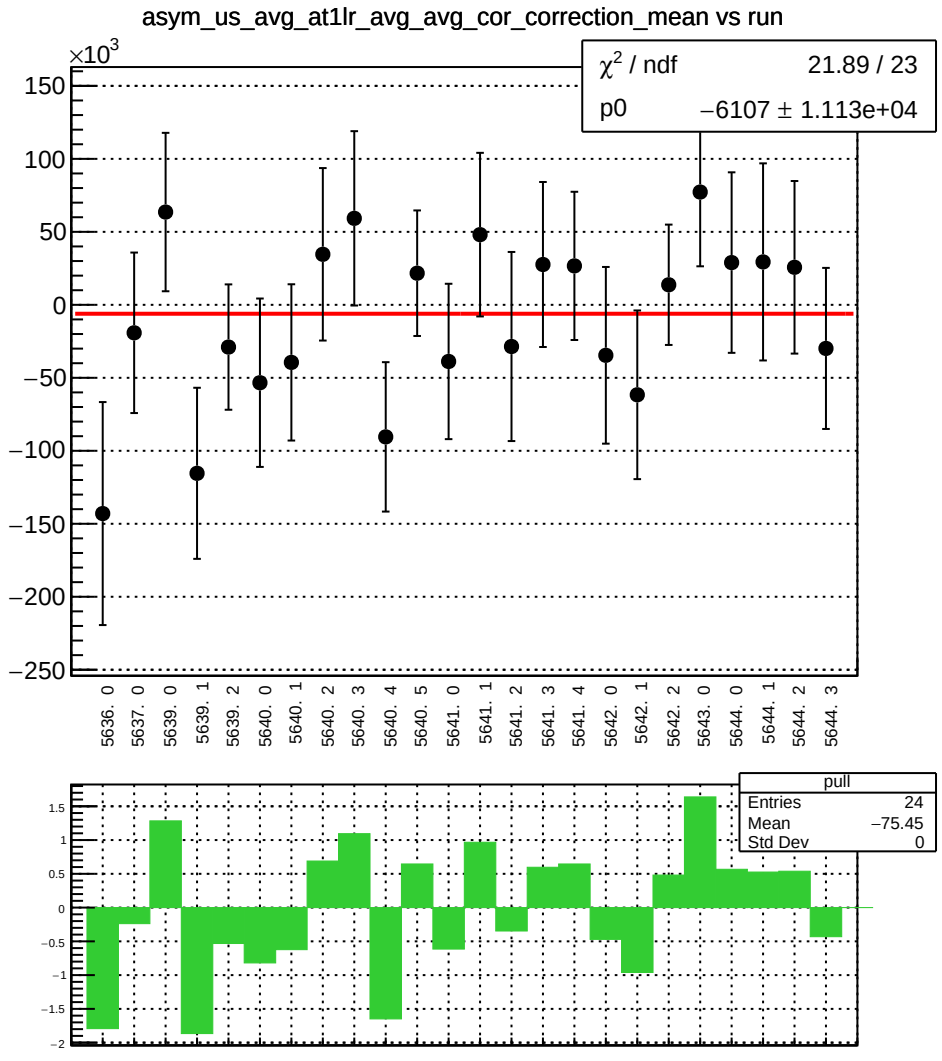
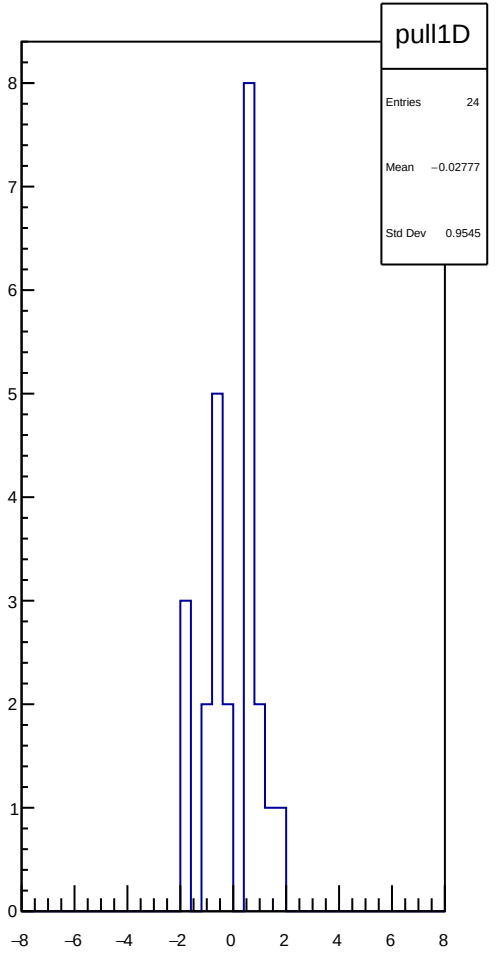
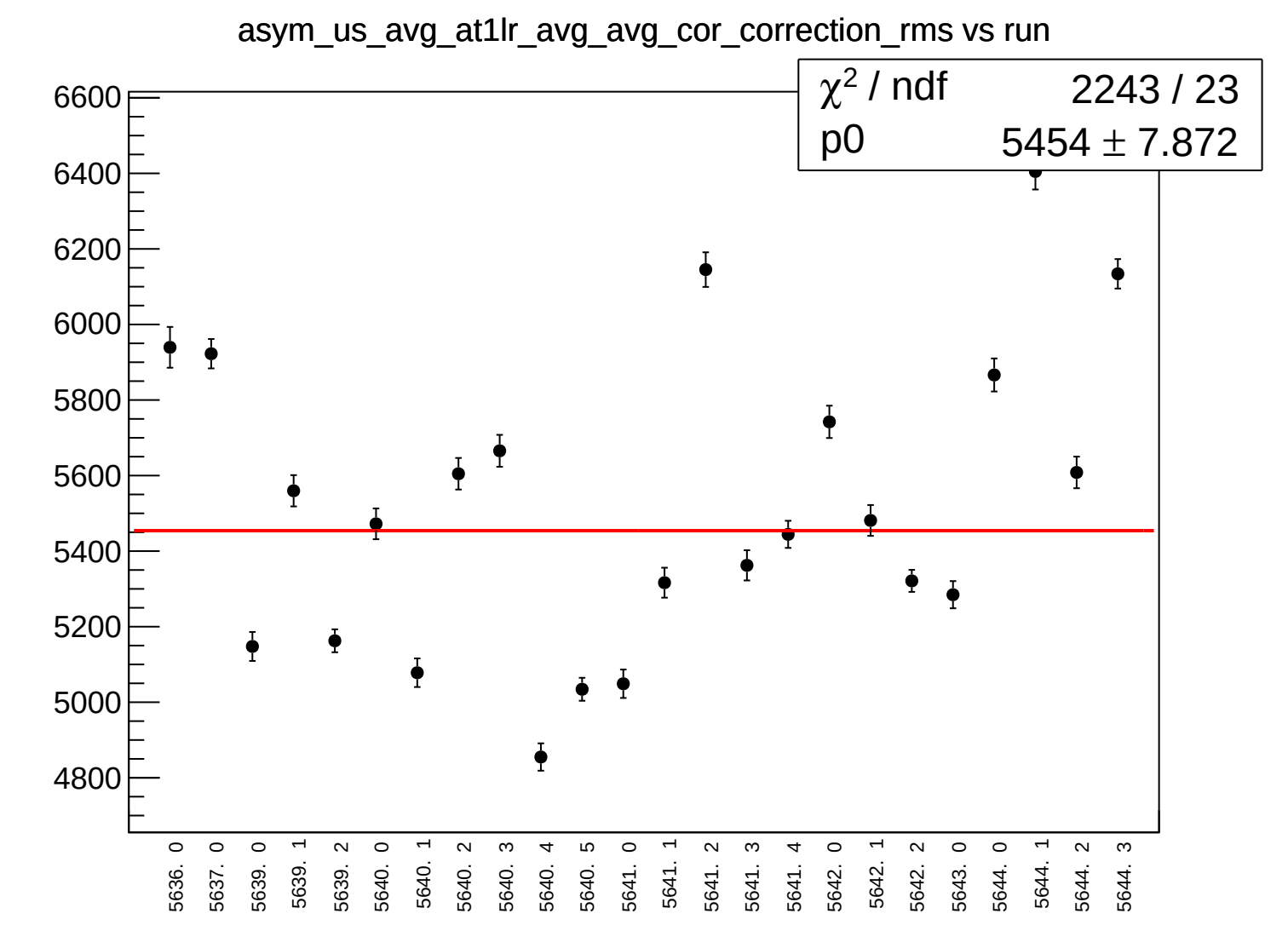
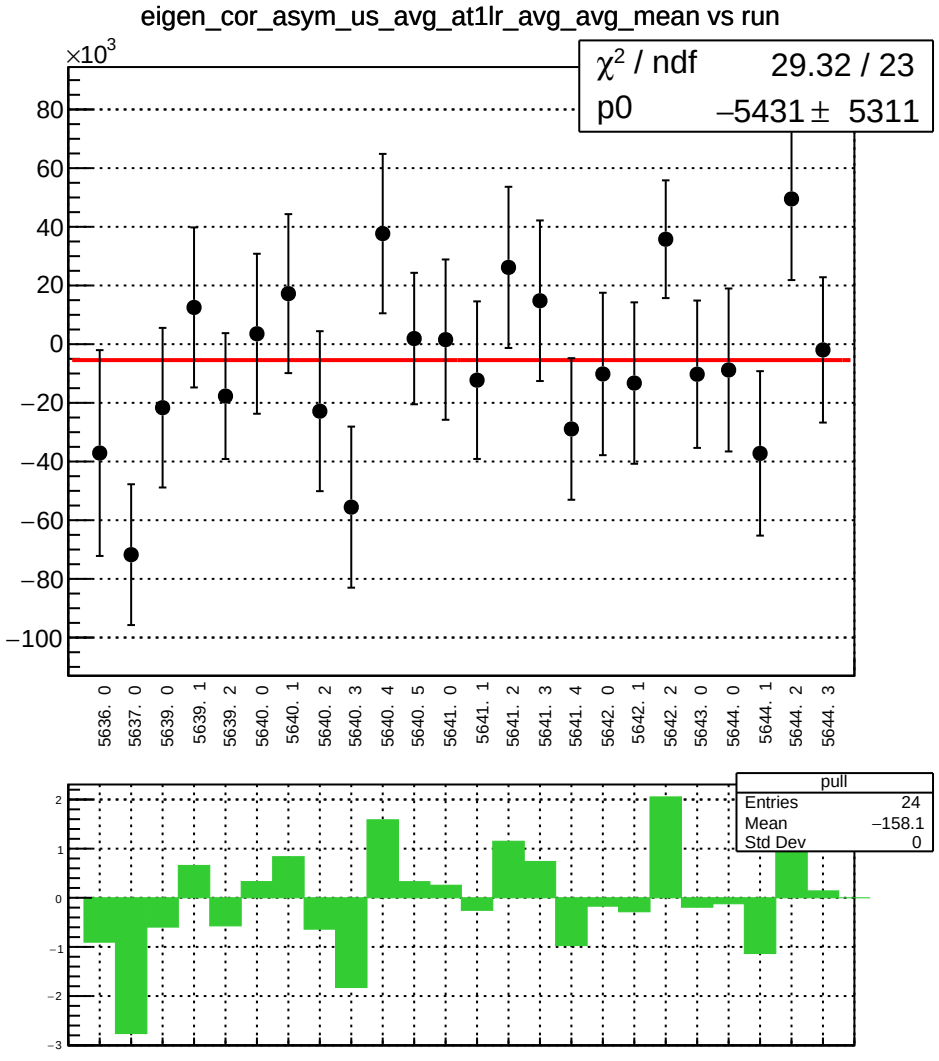
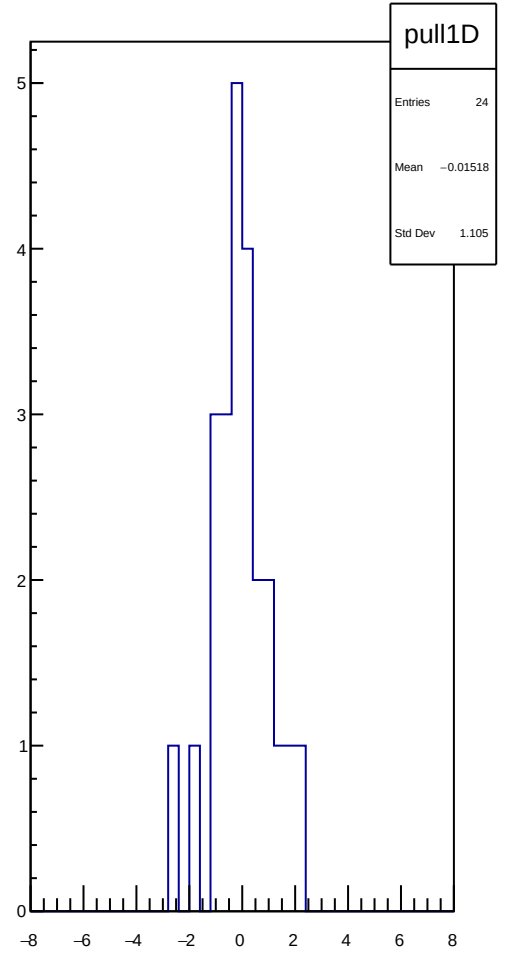
5644. 2
5644. 3

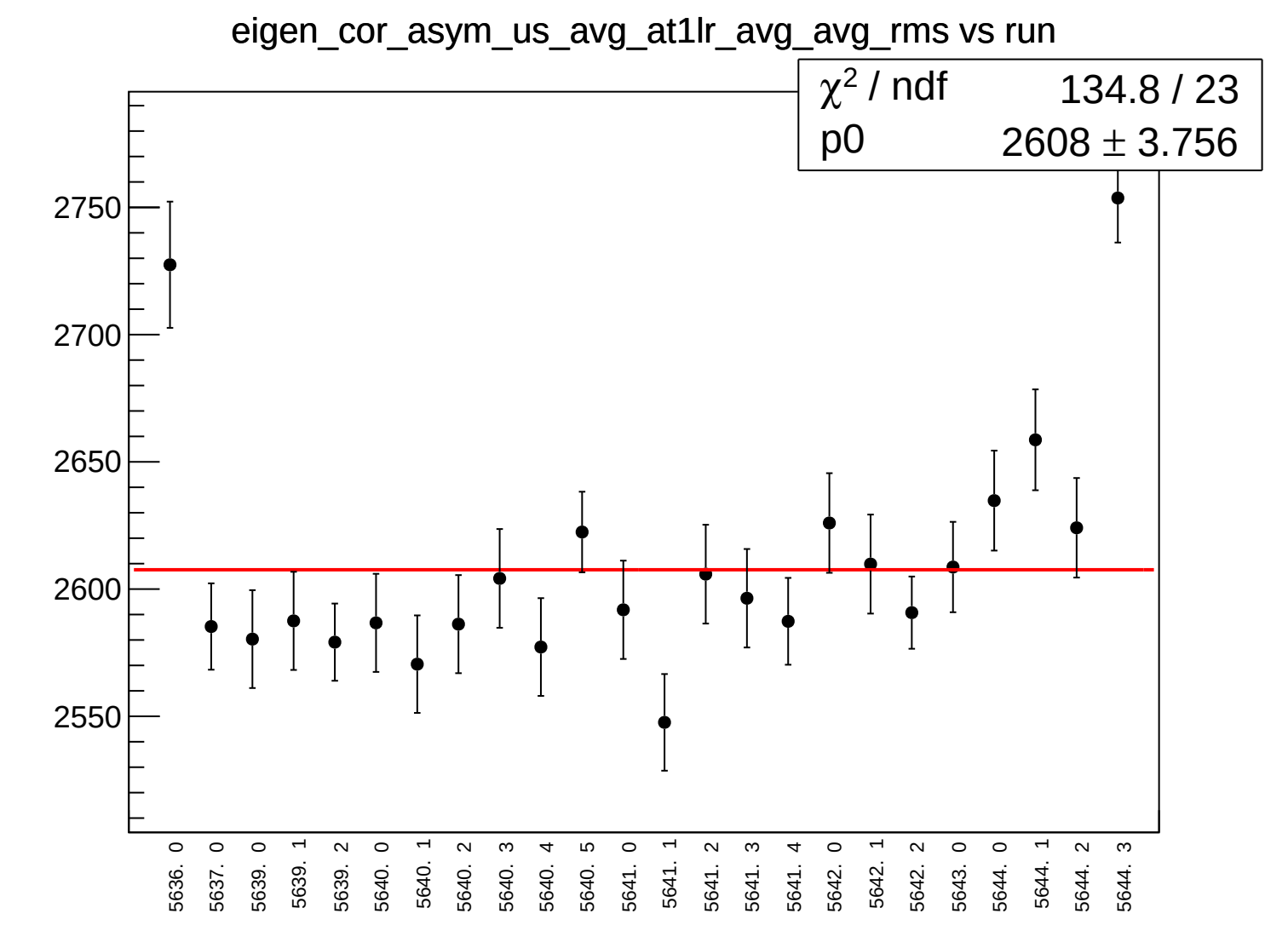

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 21.89 / 23
p0 −6107 ± 1.113e+04
150
100
50
0
−50
−100
−150
−200
−250
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −75.45
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

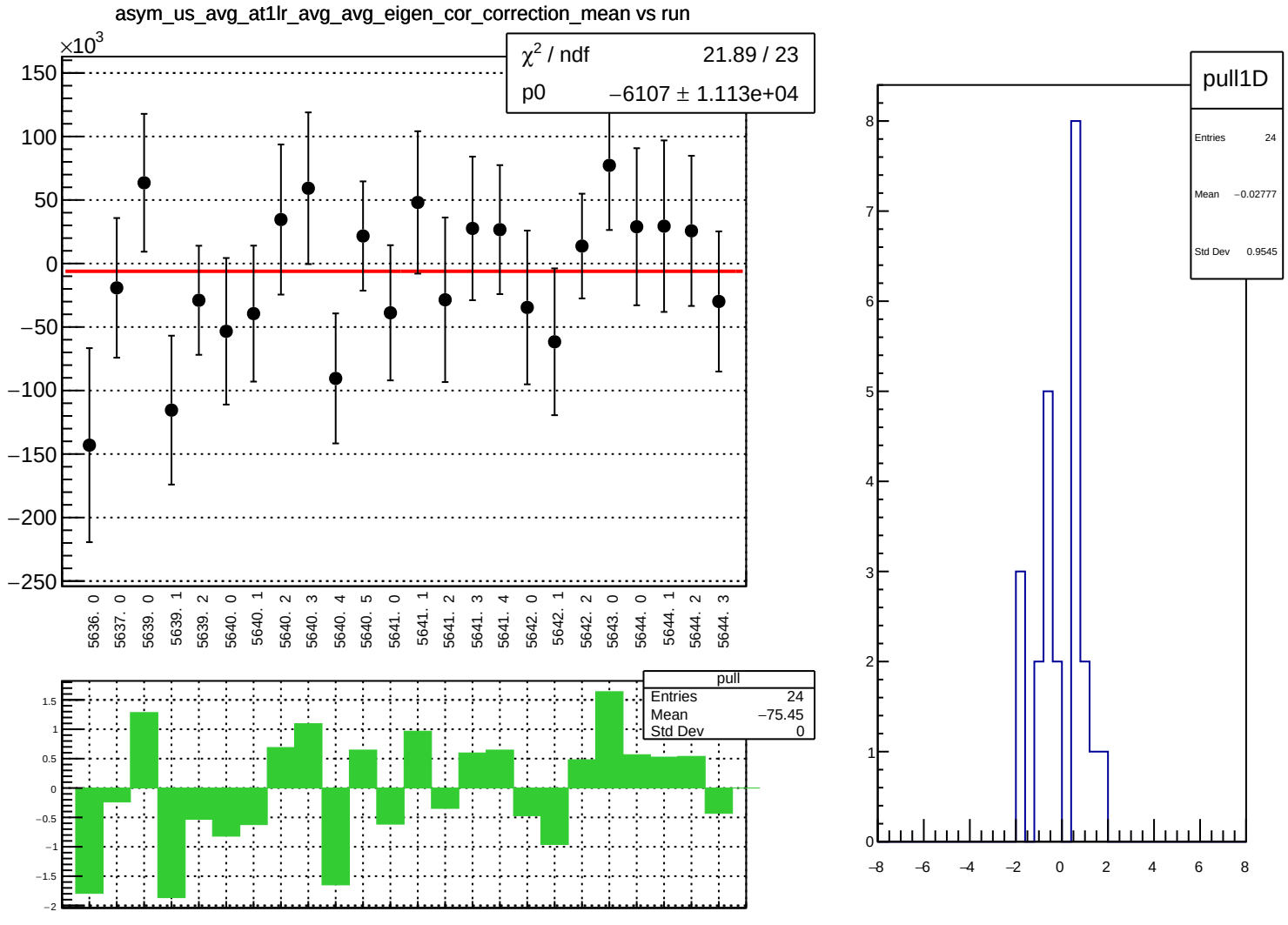

pull1D
Entries 24
Mean −0.02777
Std Dev 0.9545
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

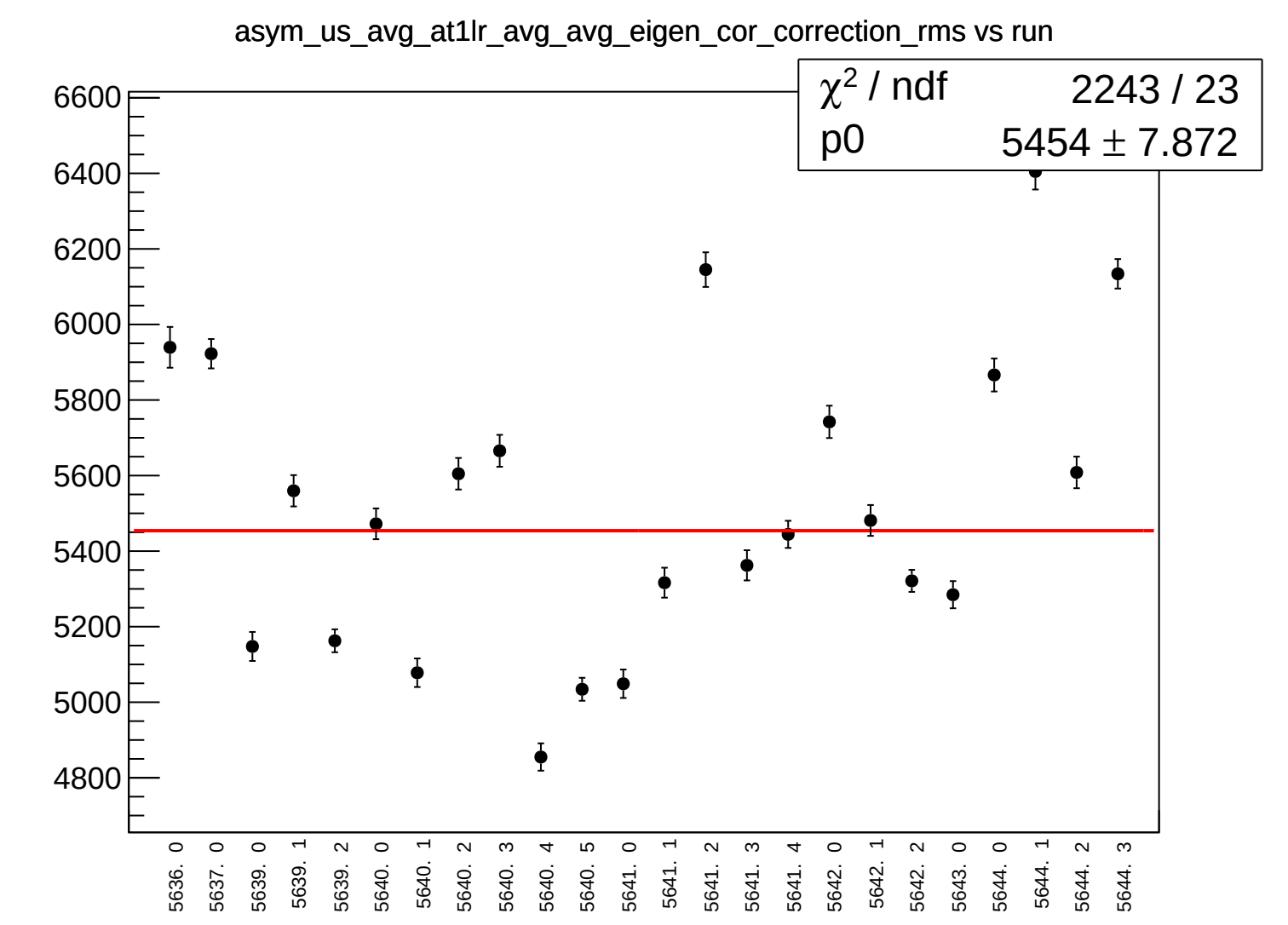

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 2243 / 23
p0 5454 ± 7.872
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 29.32 / 23
p0 −5431 ± 5311
80
60
40
20
0
−20
−40
−60
−80
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −158.1
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 24
Mean −0.01518
Std Dev 1.105
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 134.8 / 23
p0 2608 ± 3.756
2750
2700
2650
2600
2550
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 21.89 / 23
p0 −6107 ± 1.113e+04
150
100
50
0
−50
−100
−150
−200
−250
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −75.45
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.02777
Std Dev 0.9545
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 2243 / 23
p0 5454 ± 7.872
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5642. 0
5642. 1
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5643. 0
5644. 0
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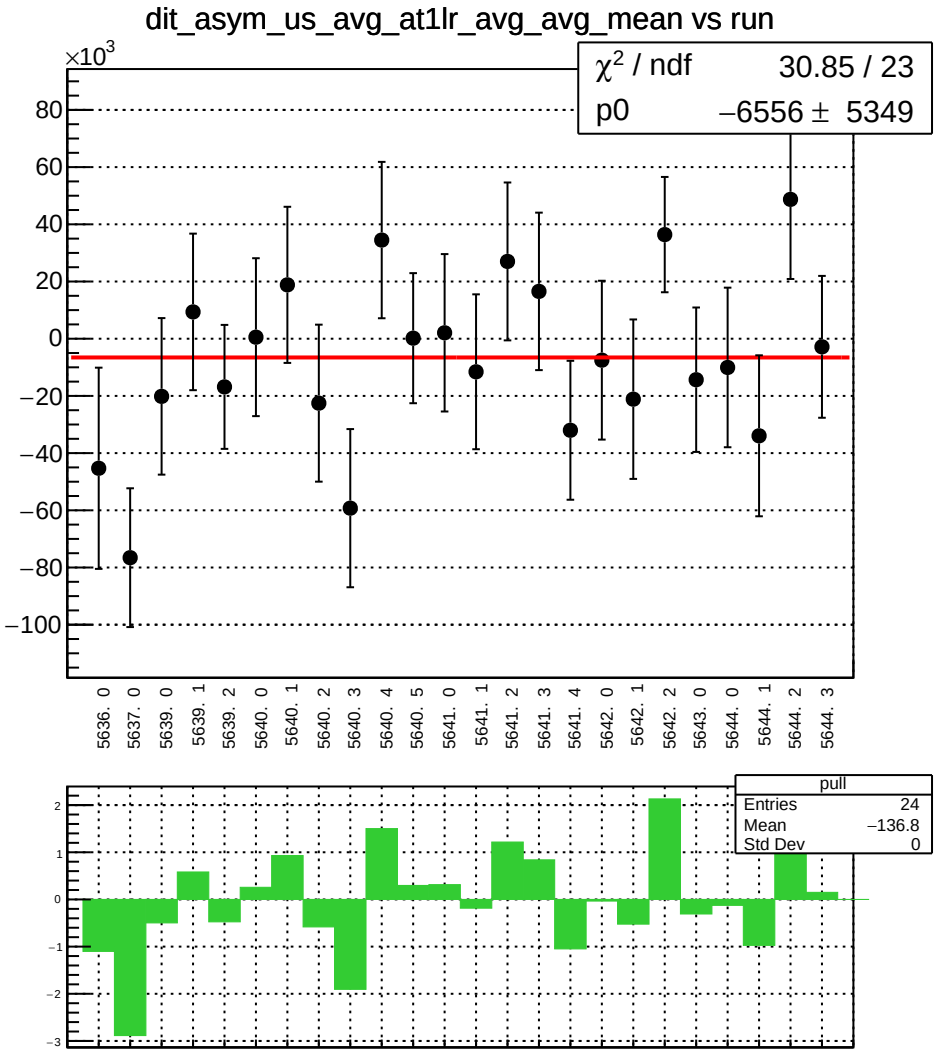
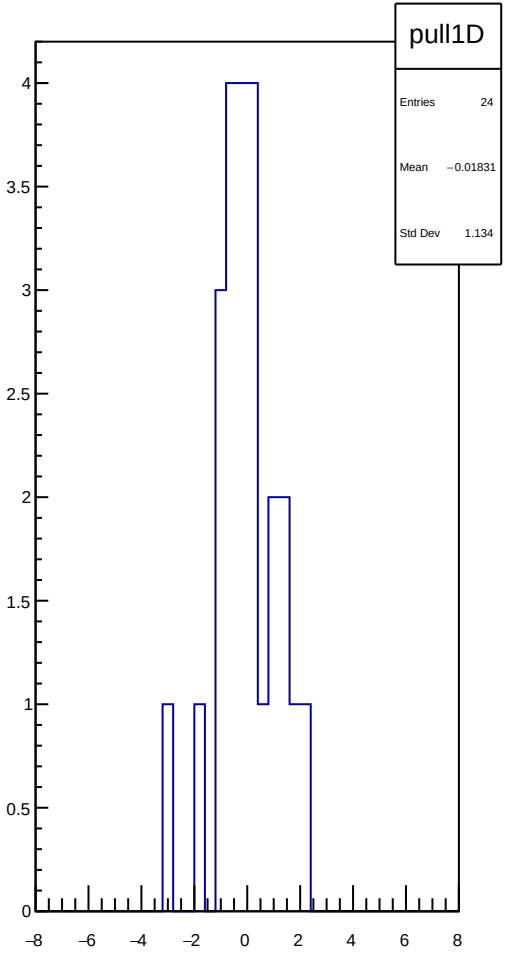
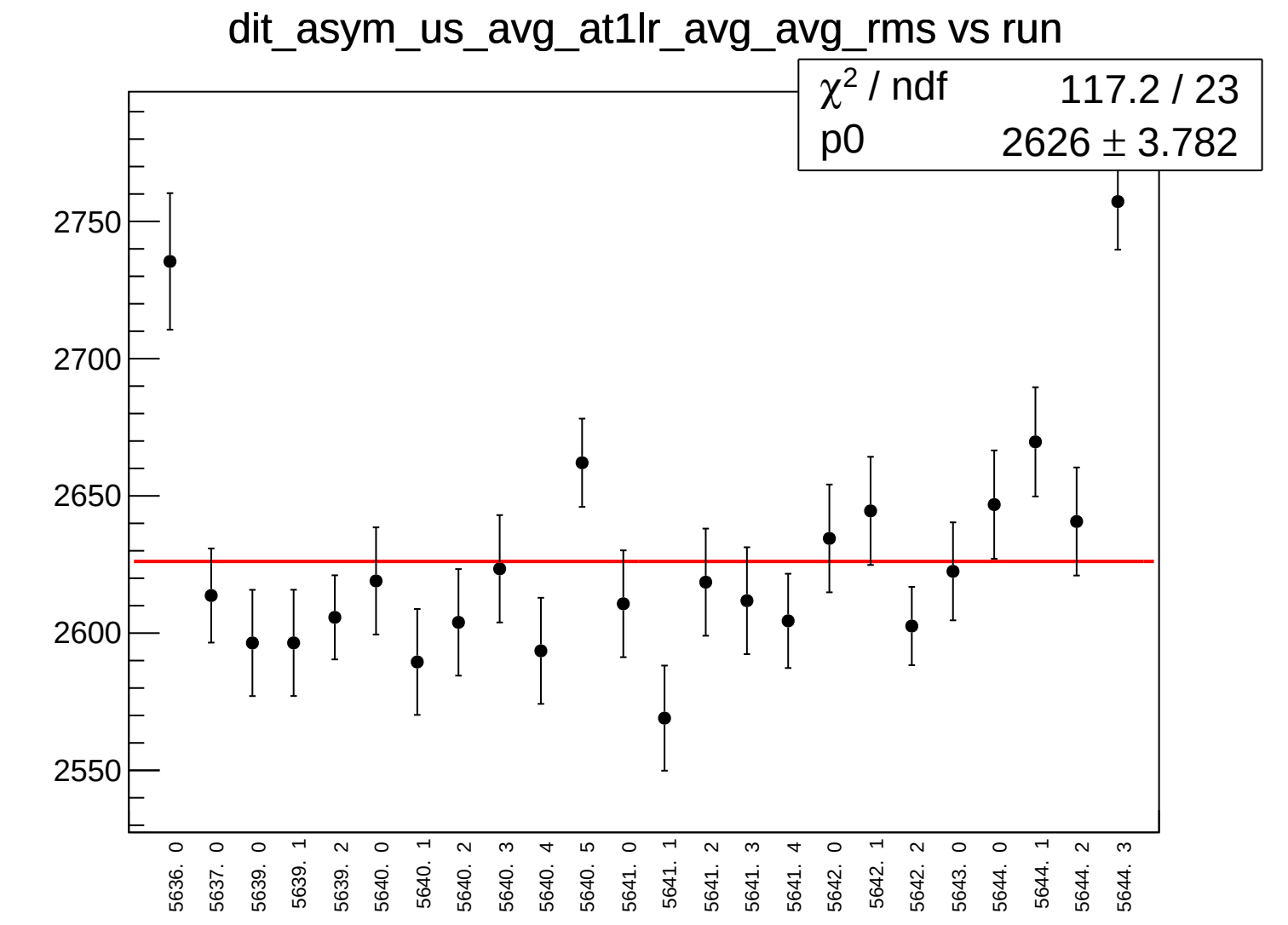
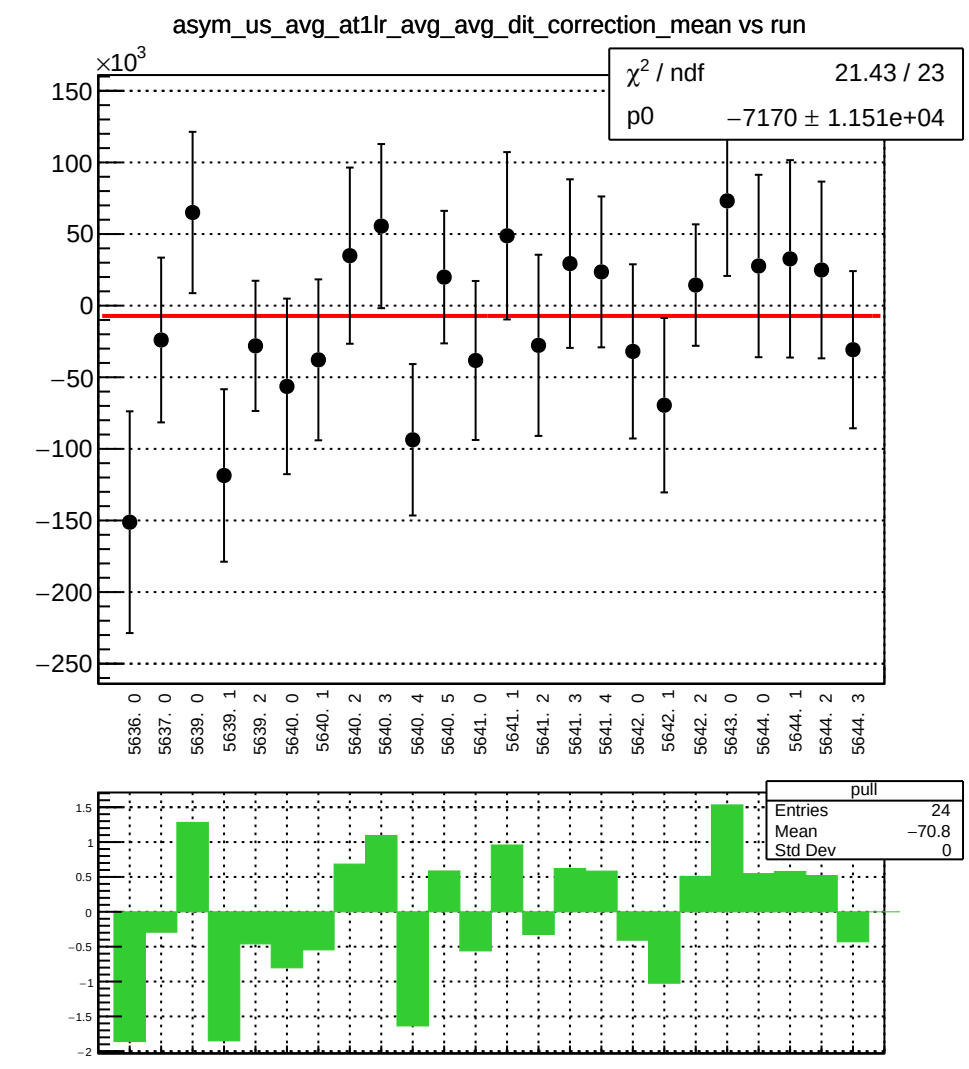
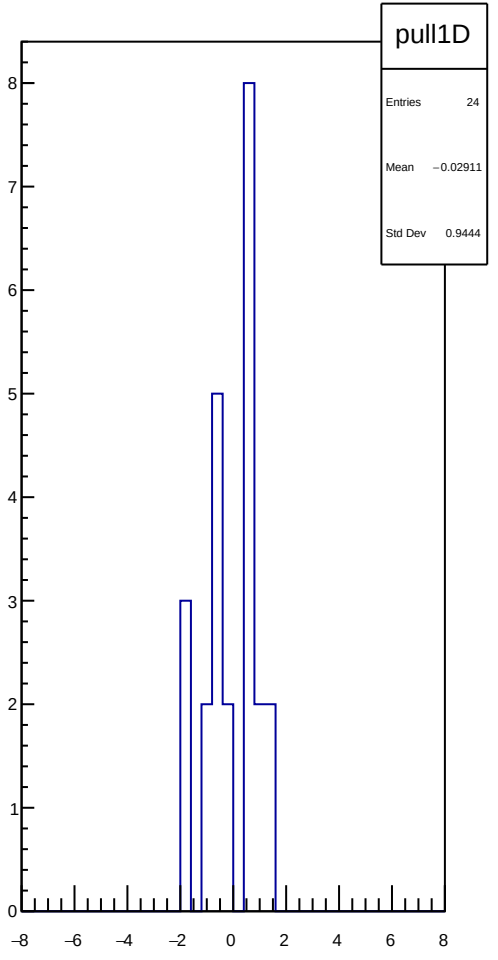
5644. 2
5644. 3

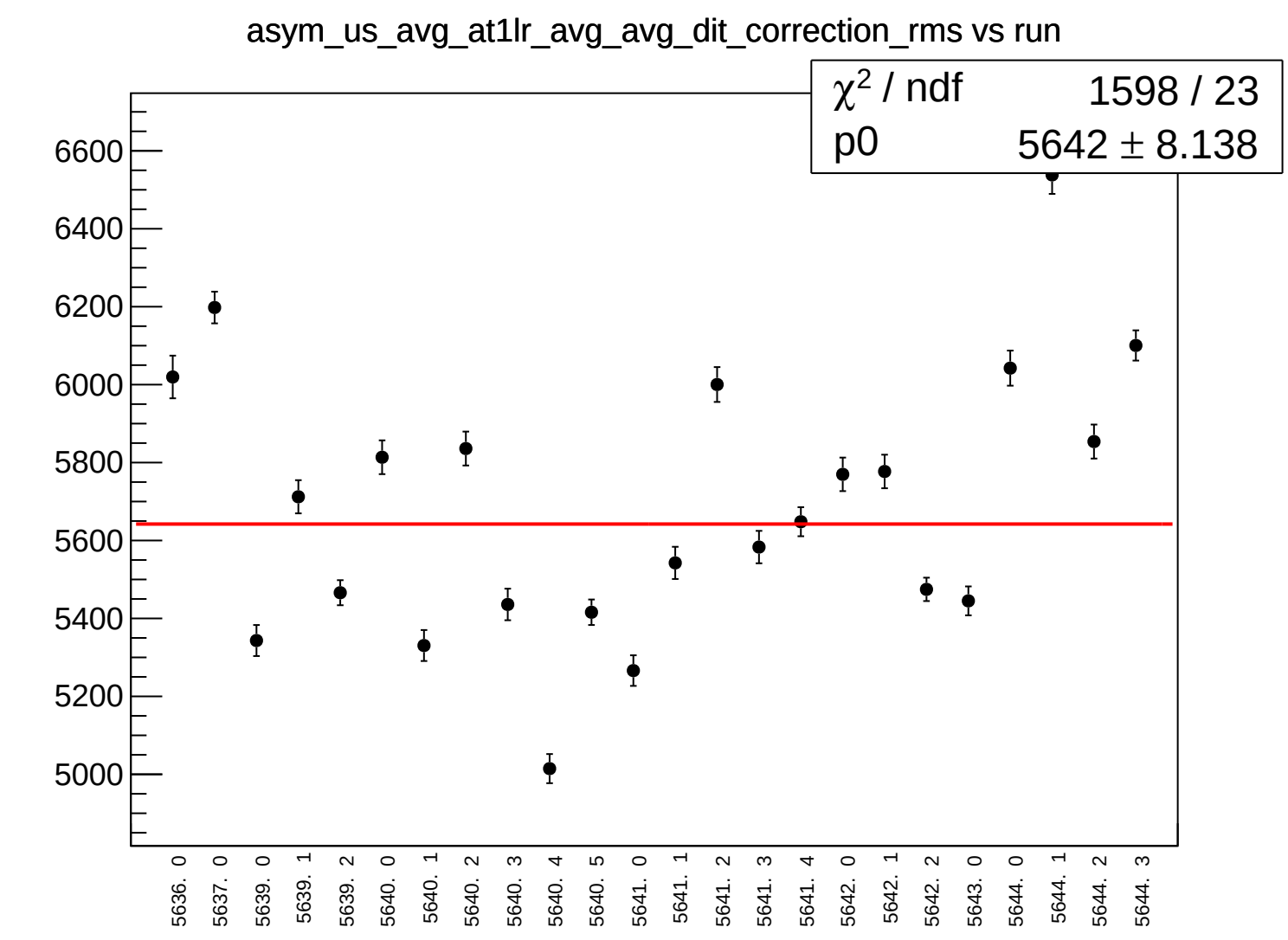

dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 30.85 / 23
p0 −6556 ± 5349
80
60
40
20
0
−20
−40
−60
−80
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −136.8
Std Dev 0
2
1
0
−1
−2
−3

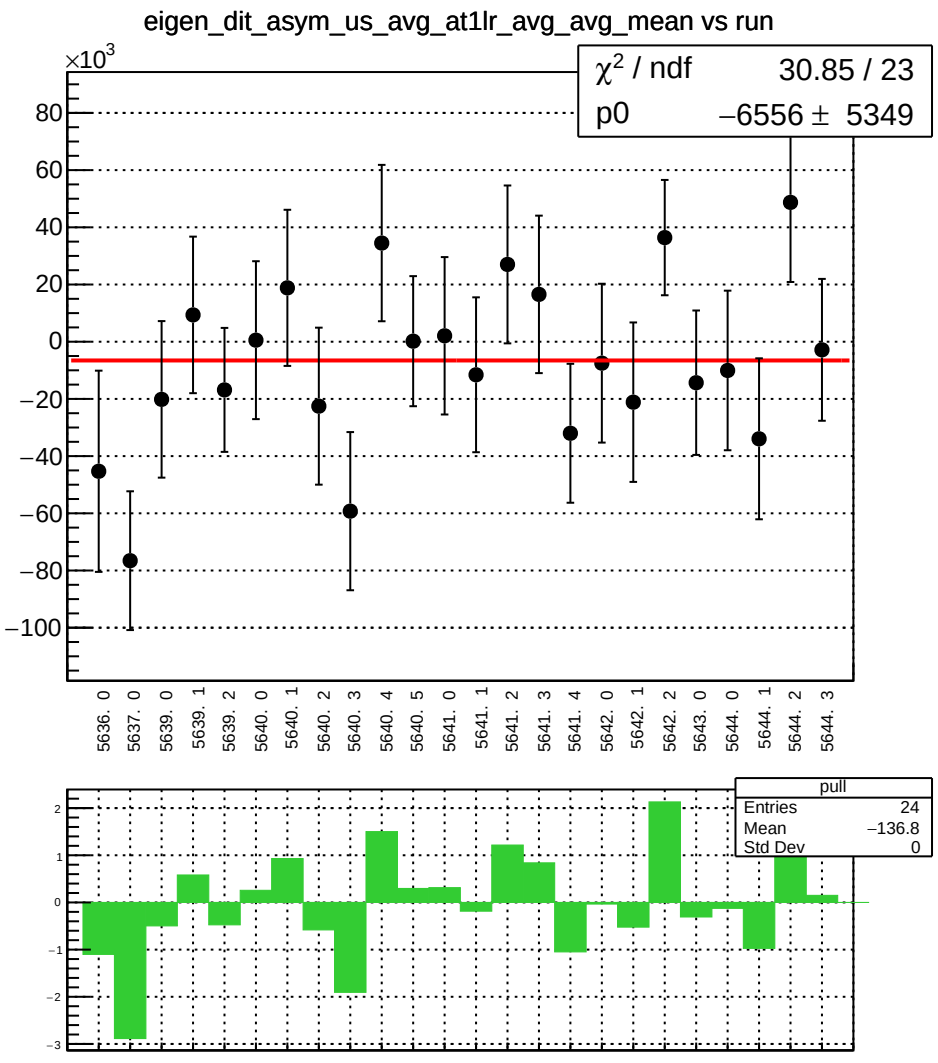

pull1D
Entries 24
Mean −0.01831
Std Dev 1.134
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

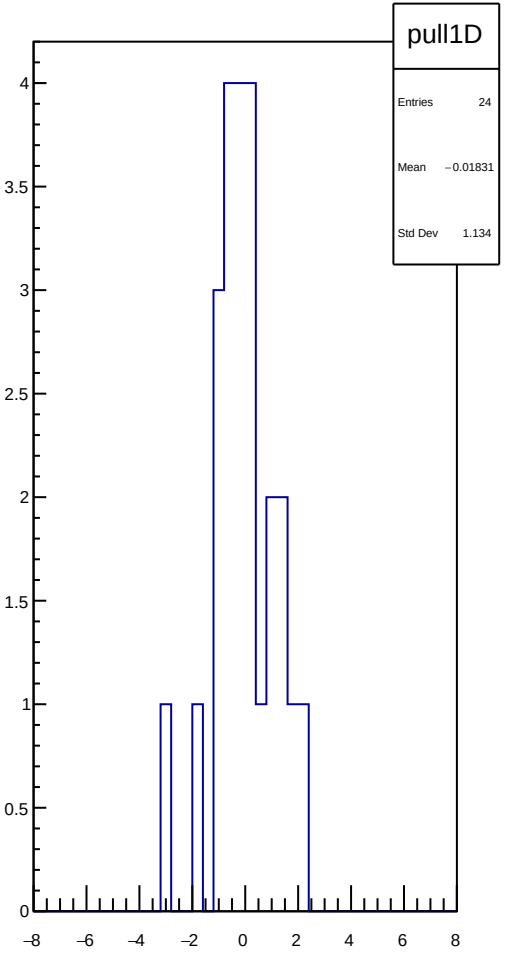

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 117.2 / 23
p0 2626 ± 3.782
2750
2700
2650
2600
2550
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

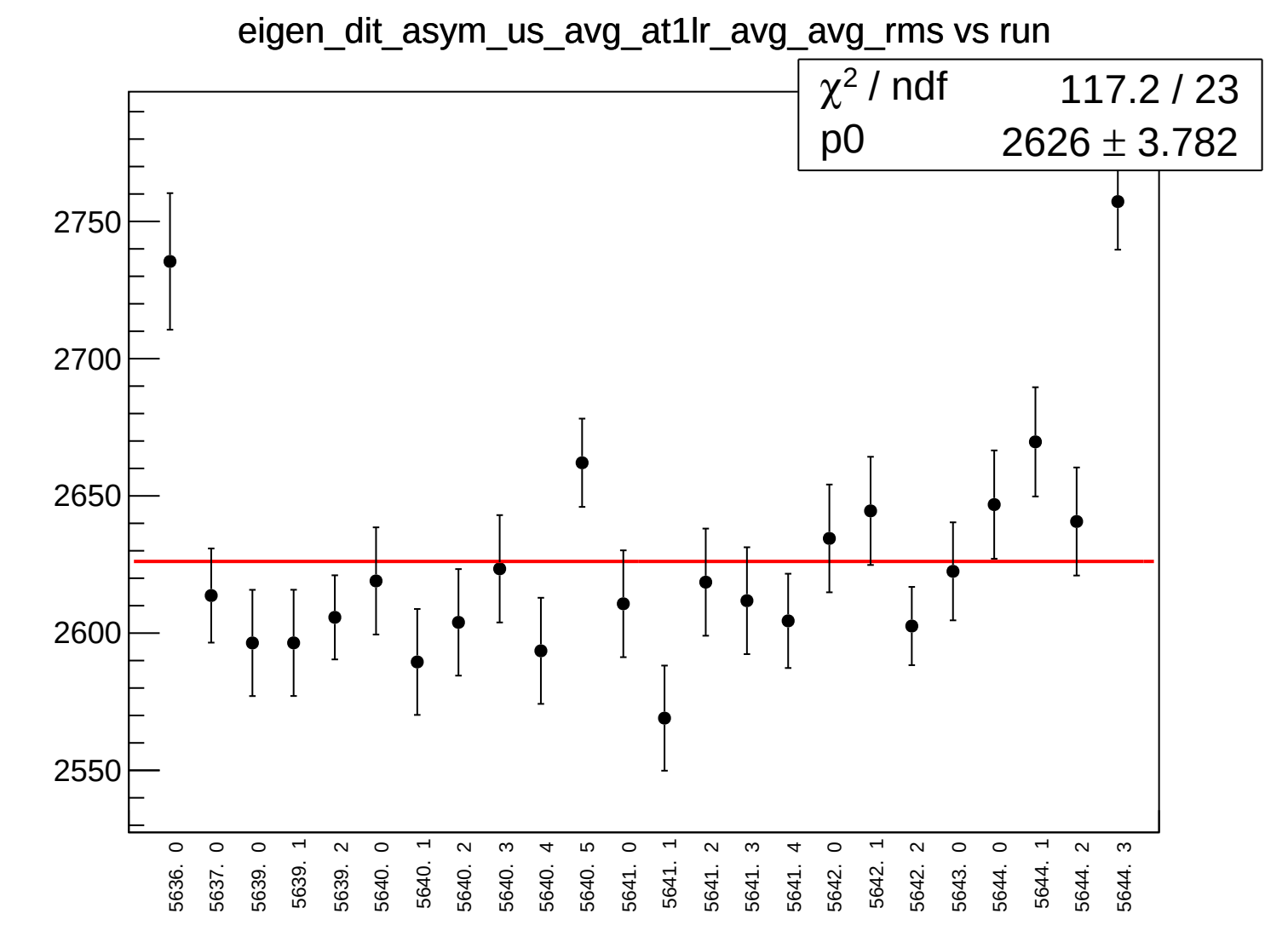

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 21.43 / 23
p0 −7170 ± 1.151e+04
150
100
50
0
−50
−100
−150
−200
−250
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −70.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.02911
Std Dev 0.9444
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 1598 / 23
p0 5642 ± 8.138
6600
6400
6200
6000
5800
5600
5400
5200
5000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 30.85 / 23
p0 −6556 ± 5349
80
60
40
20
0
−20
−40
−60
−80
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −136.8
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 24
Mean −0.01831
Std Dev 1.134
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 117.2 / 23
p0 2626 ± 3.782
2750
2700
2650
2600
2550
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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5642. 0
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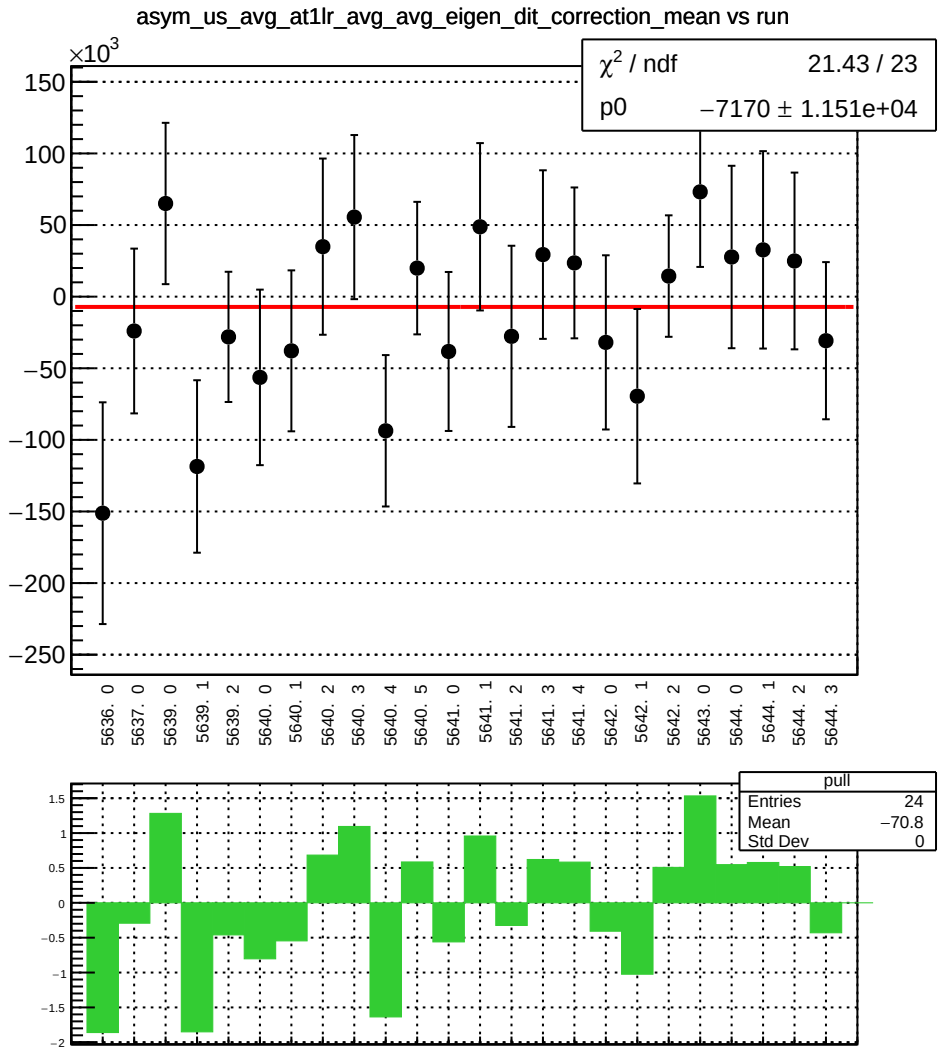
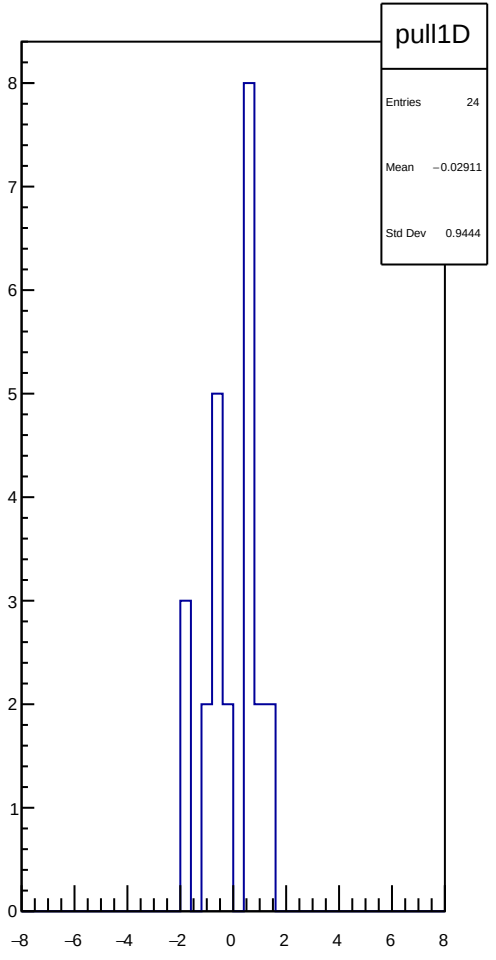
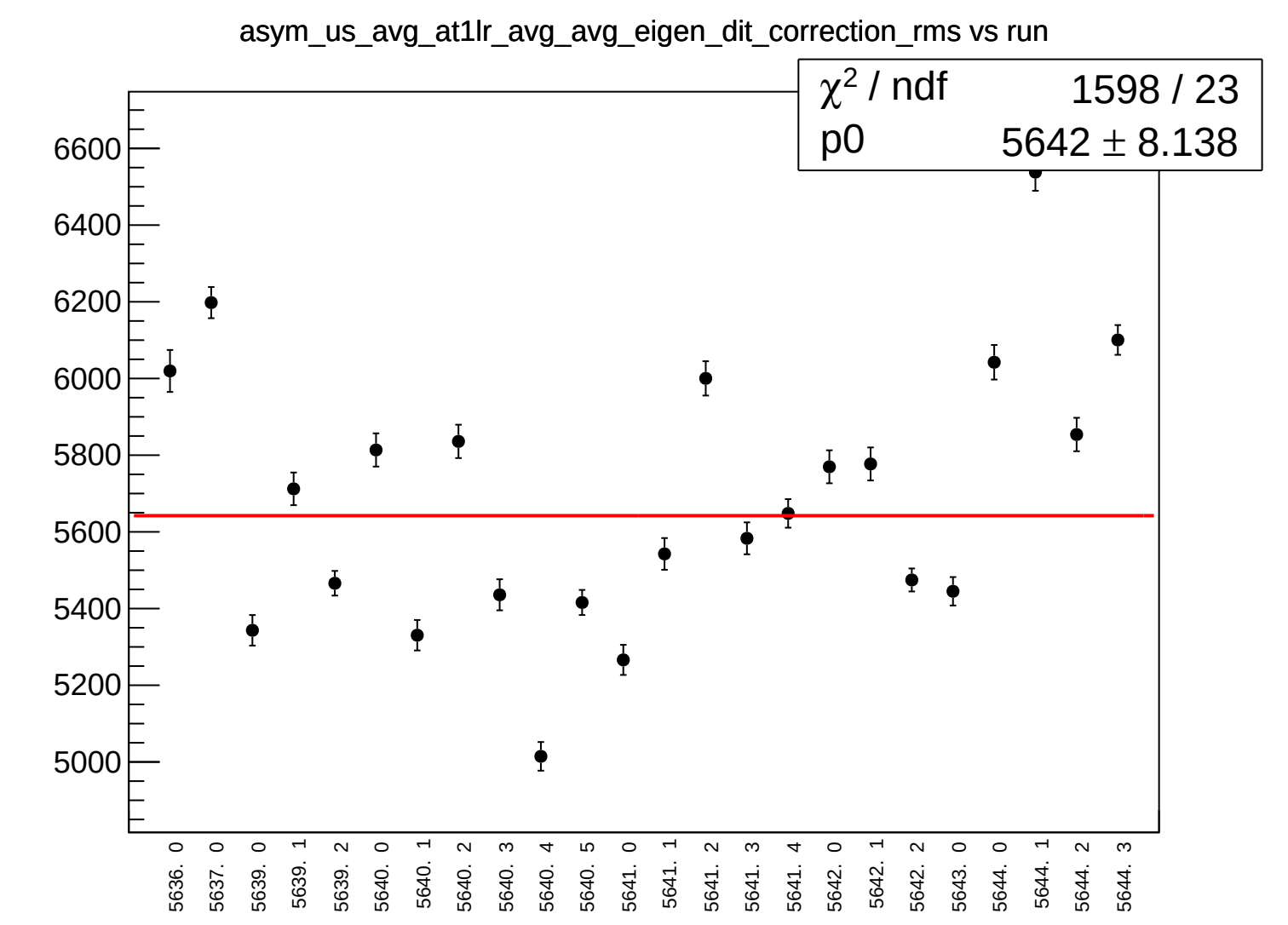
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 21.43 / 23
p0 −7170 ± 1.151e+04
150
100
50
0
−50
−100
−150
−200
−250
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −70.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.02911
Std Dev 0.9444
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1598 / 23
p0 5642 ± 8.138
6600
6400
6200
6000
5800
5600
5400
5200
5000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
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5641. 1
5641. 2
5641. 3
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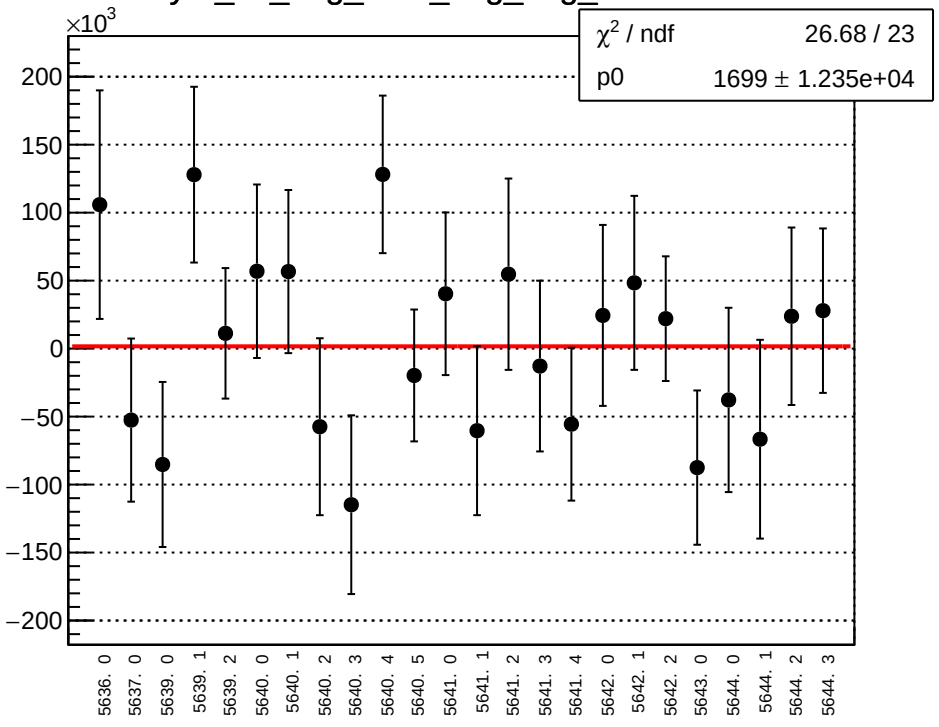
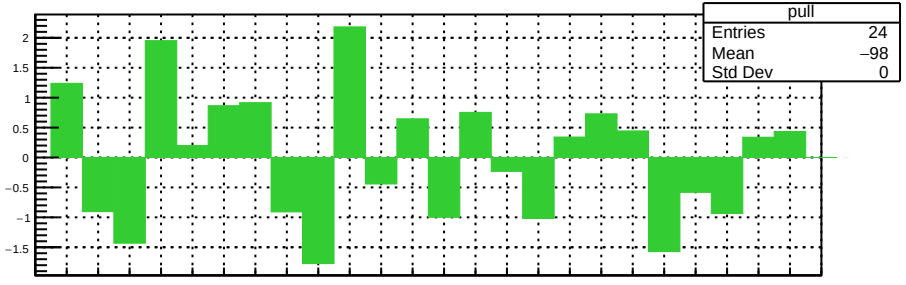
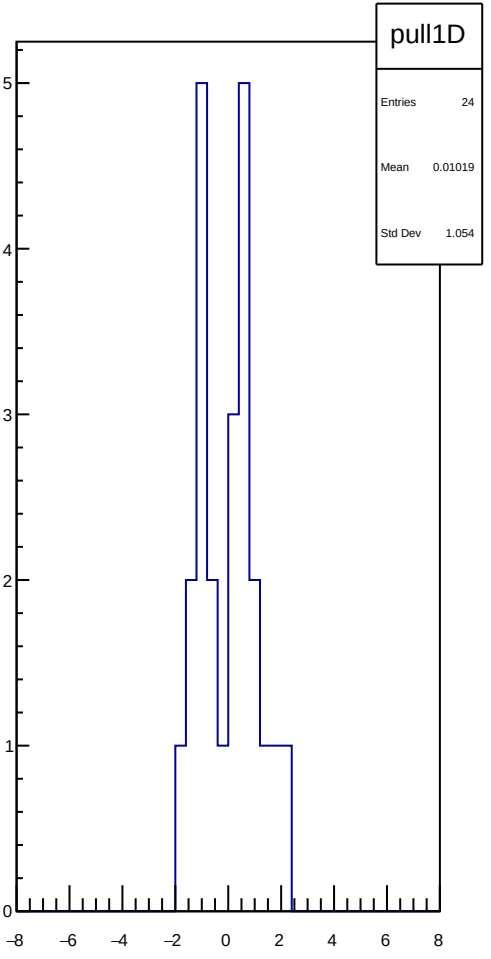
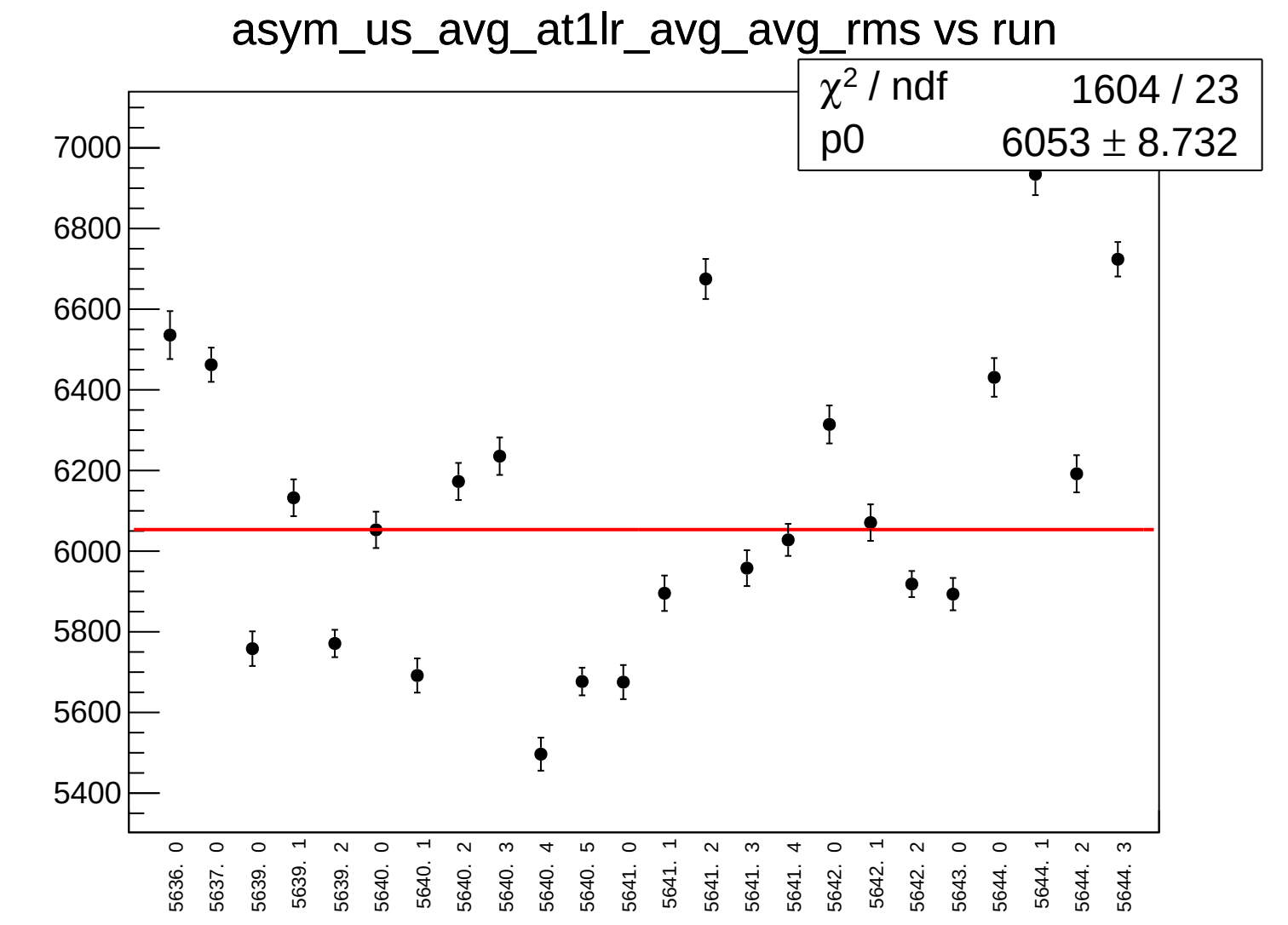
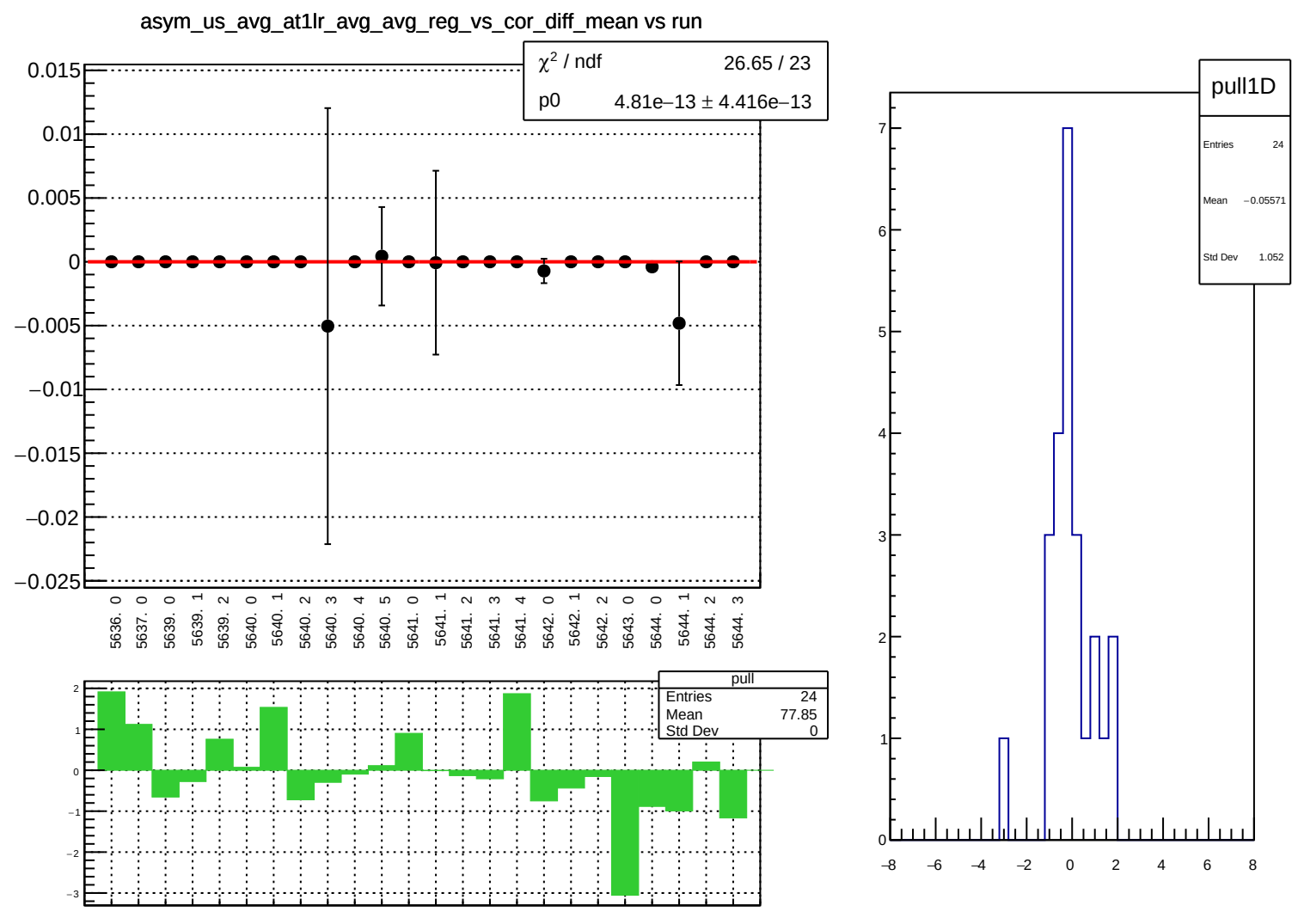
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

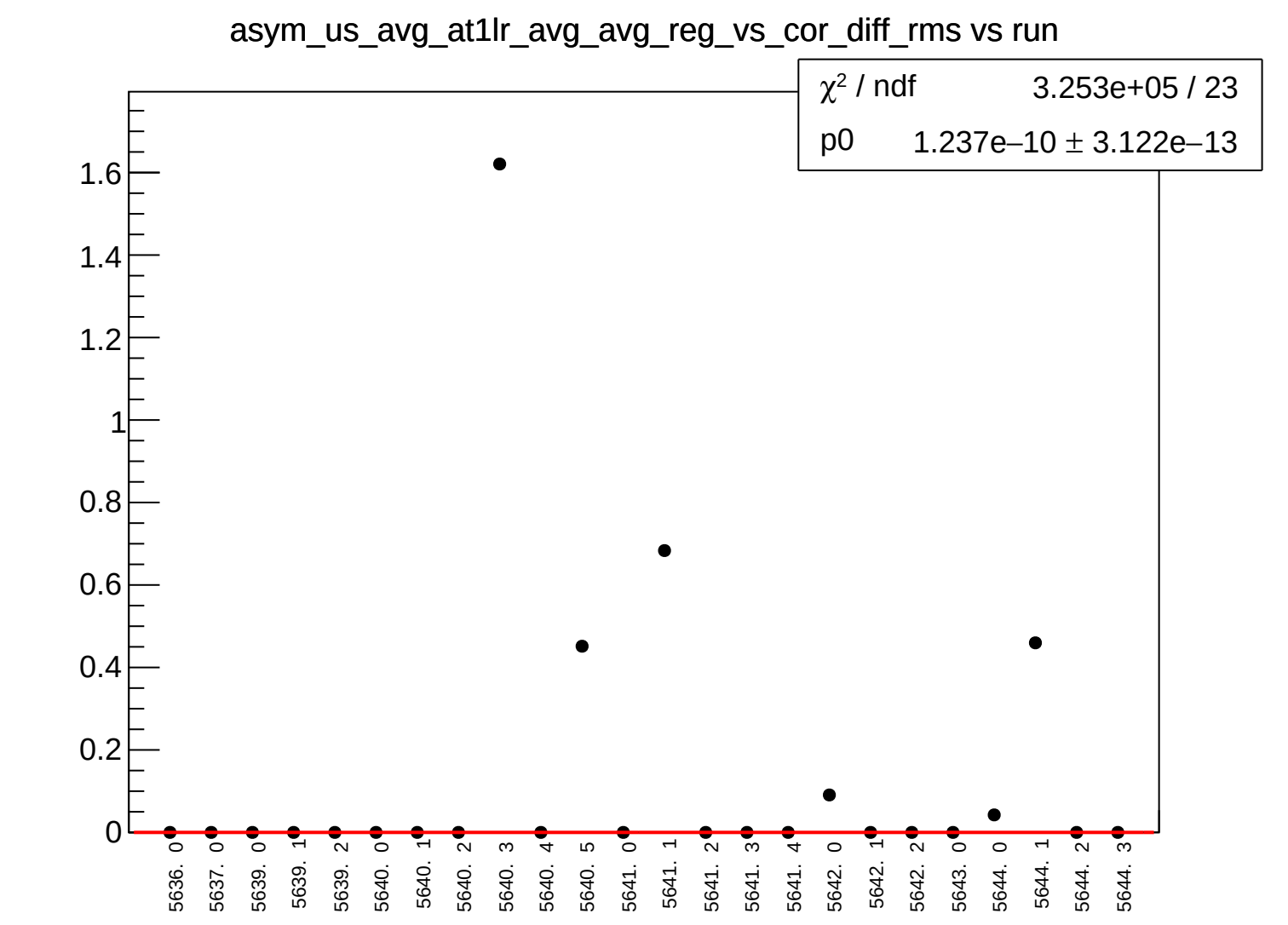

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 26.68 / 23
p0 1699 ± 1.235e+04
200
150
100
50
0
−50
−100
−150
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

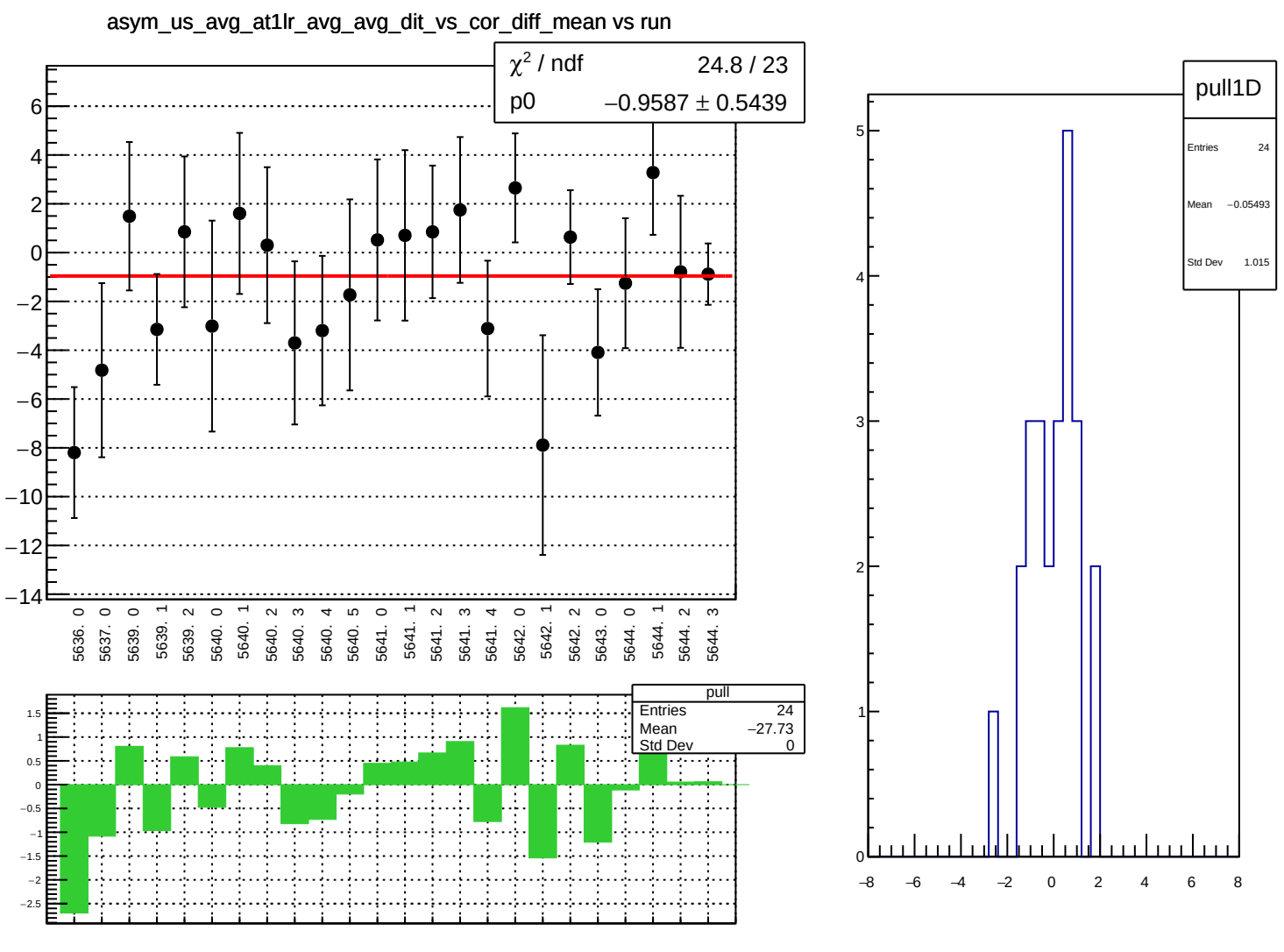

pull
Entries 24
Mean −98
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

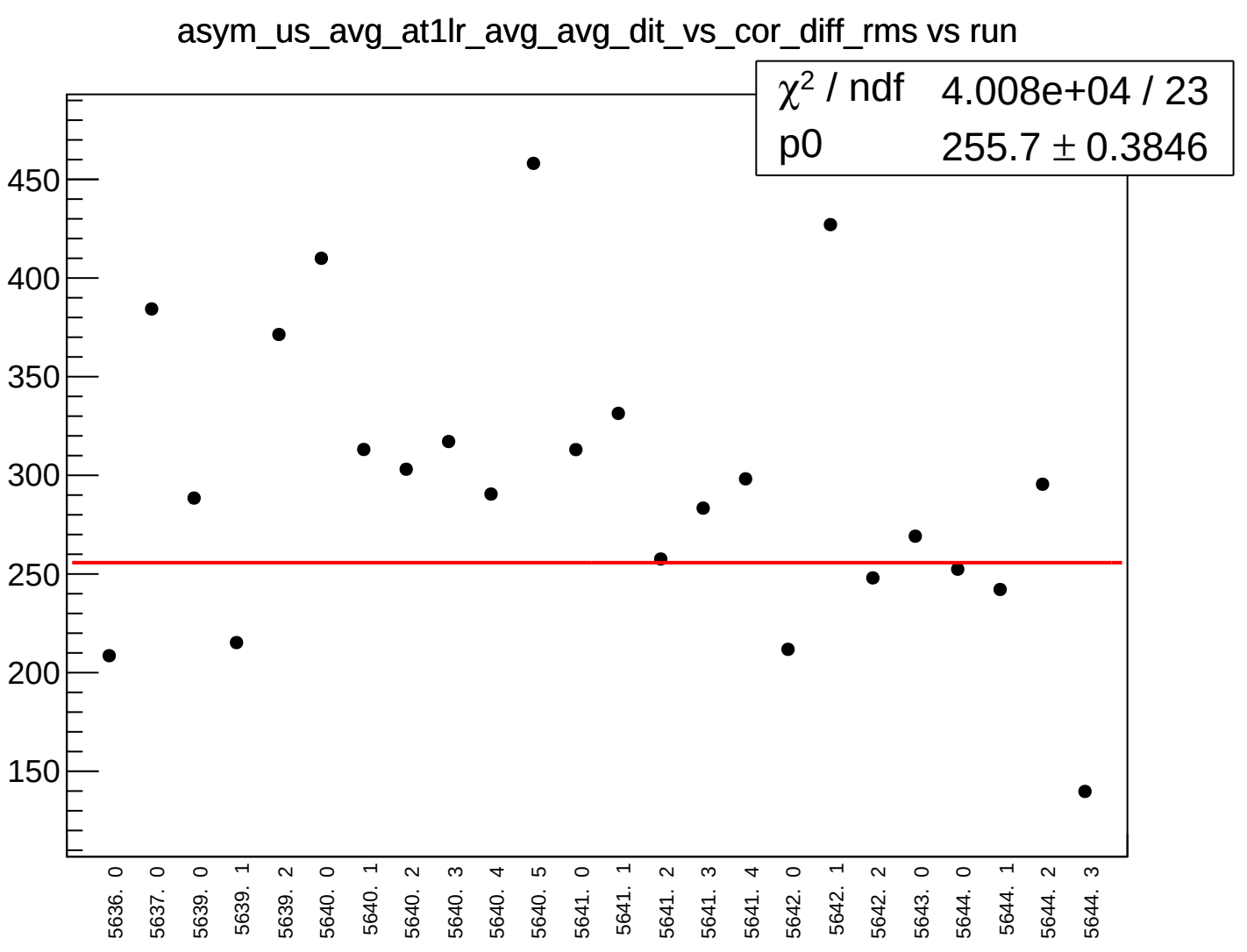

pull1D
Entries 24
Mean 0.01019
Std Dev 1.054
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

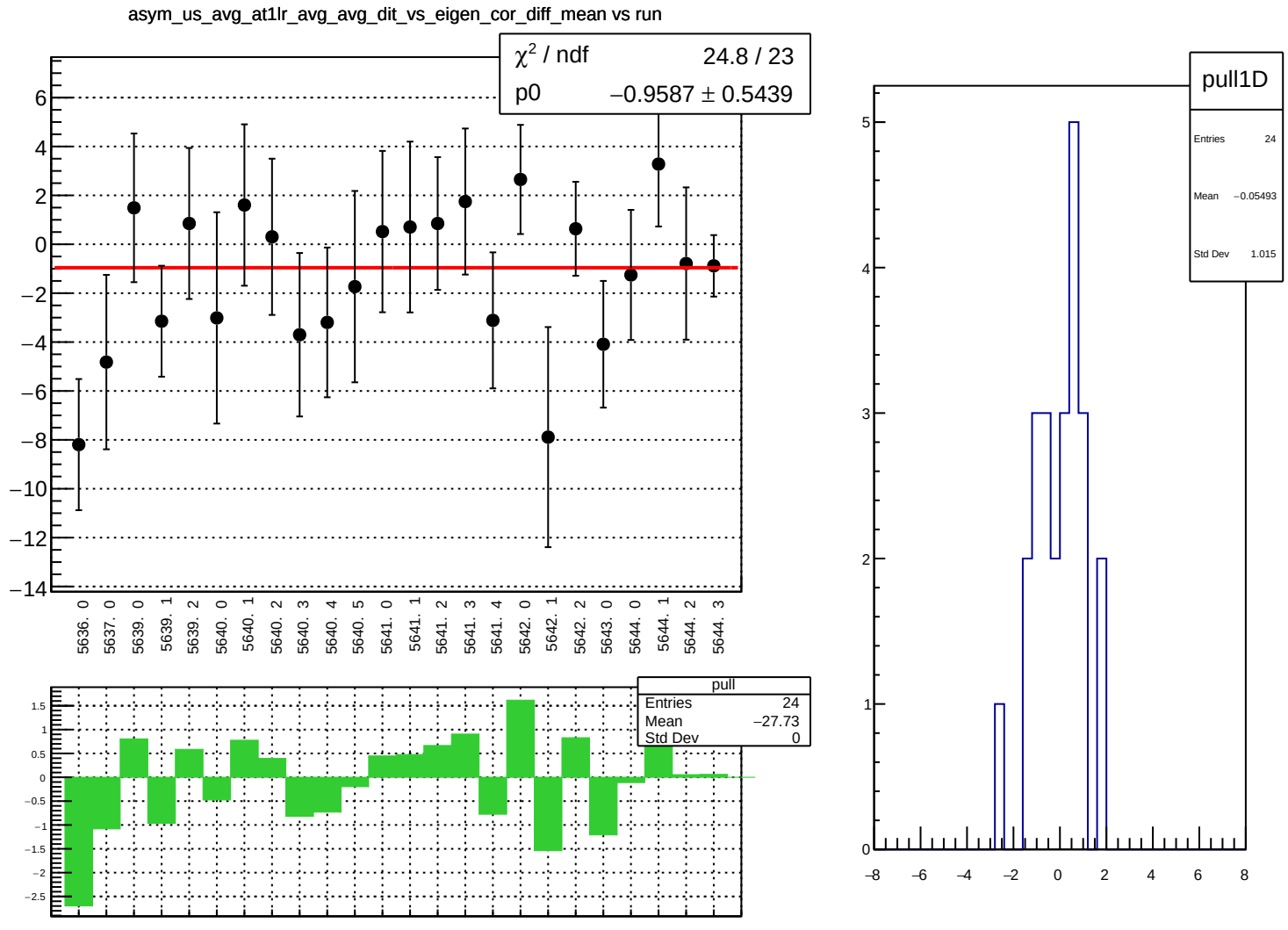

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1604 / 23
p0 6053 ± 8.732
7000
6800
6600
6400
6200
6000
5800
5600
5400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

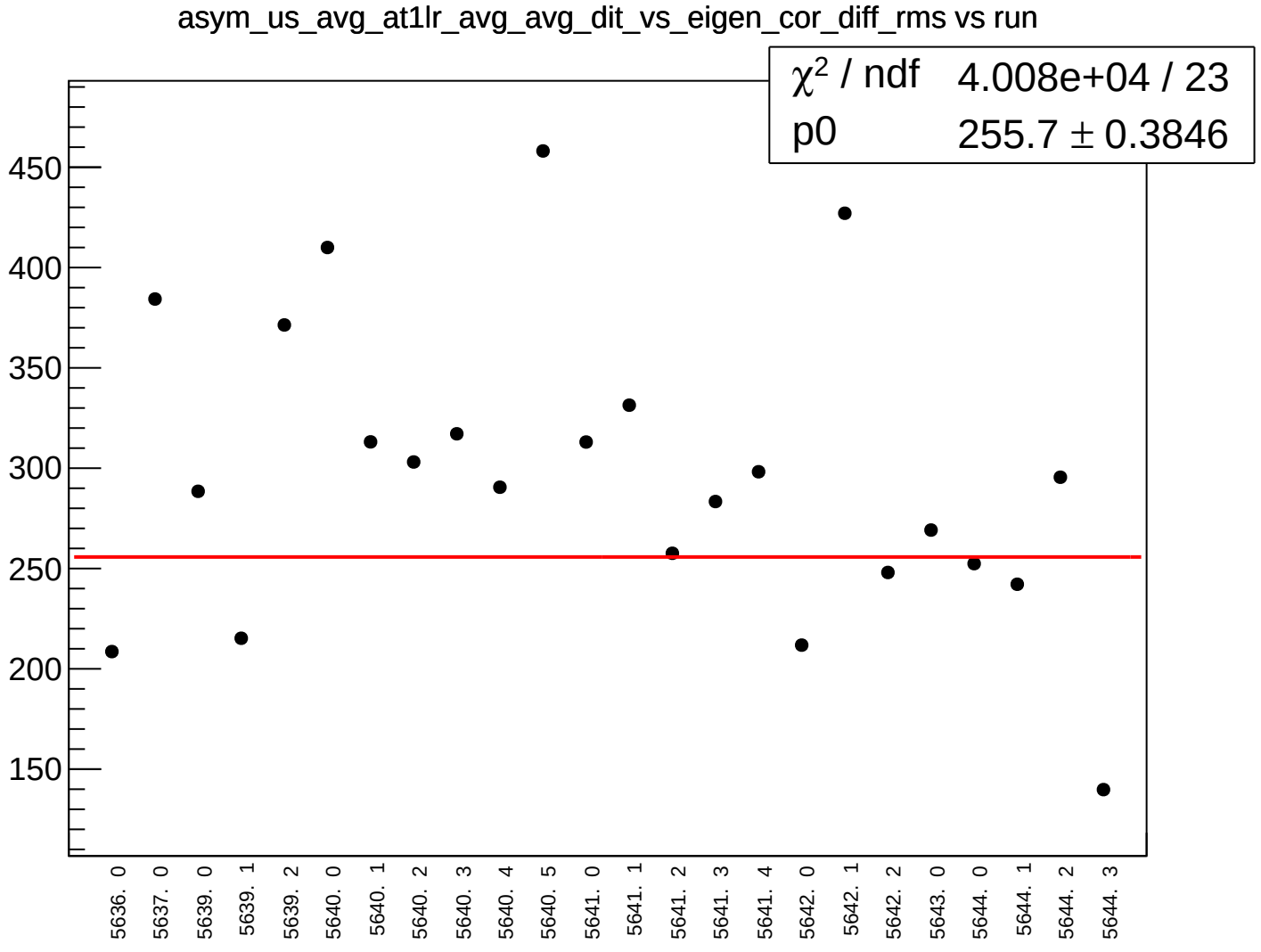

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 26.65 / 23
p0 4.81e−13 ± 4.416e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 77.85
Std Dev 0
pull1D
Entries 24
Mean −0.05571
Std Dev 1.052

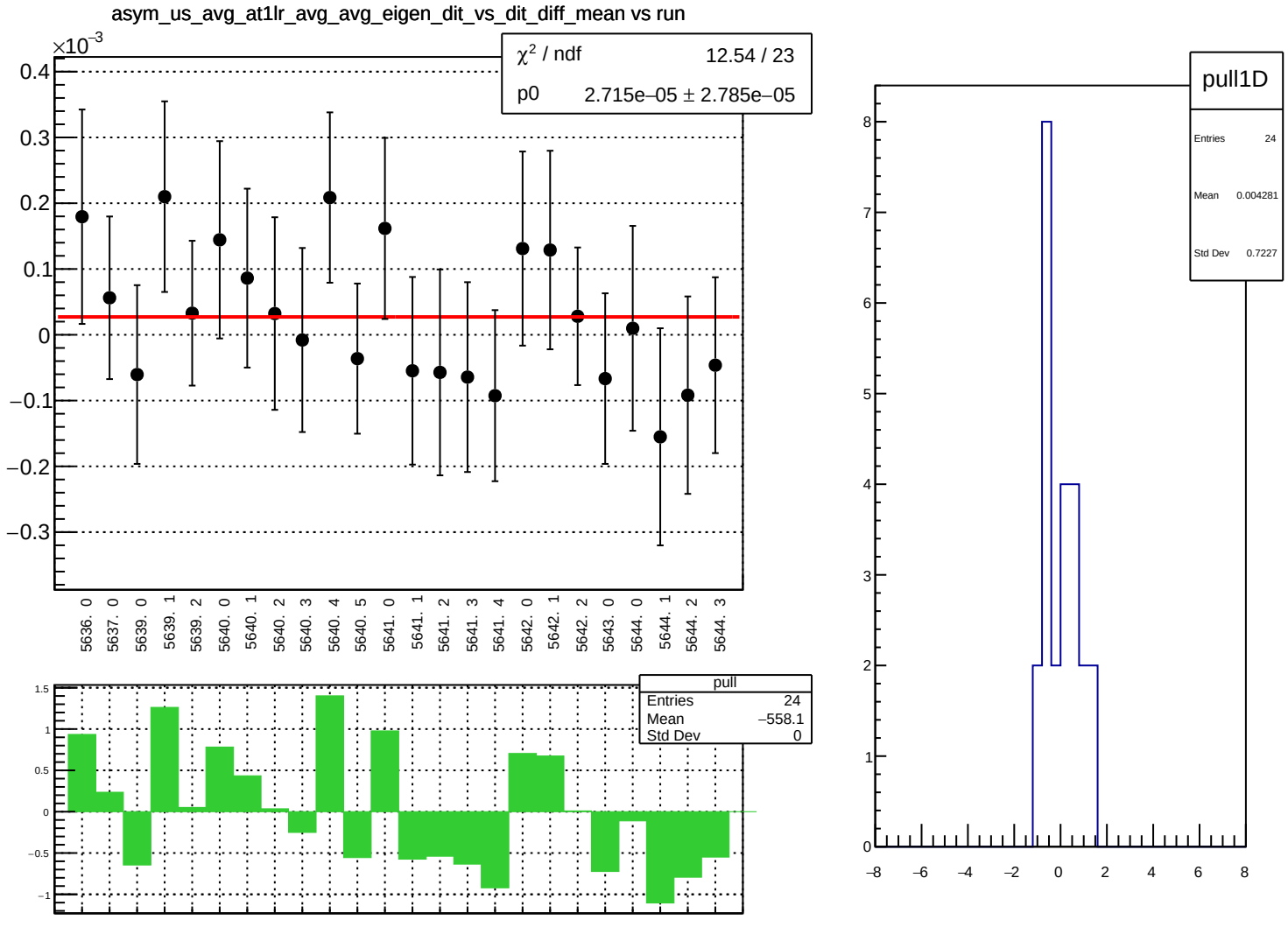

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.253e+05 / 23
p0 1.237e−10 ± 3.122e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

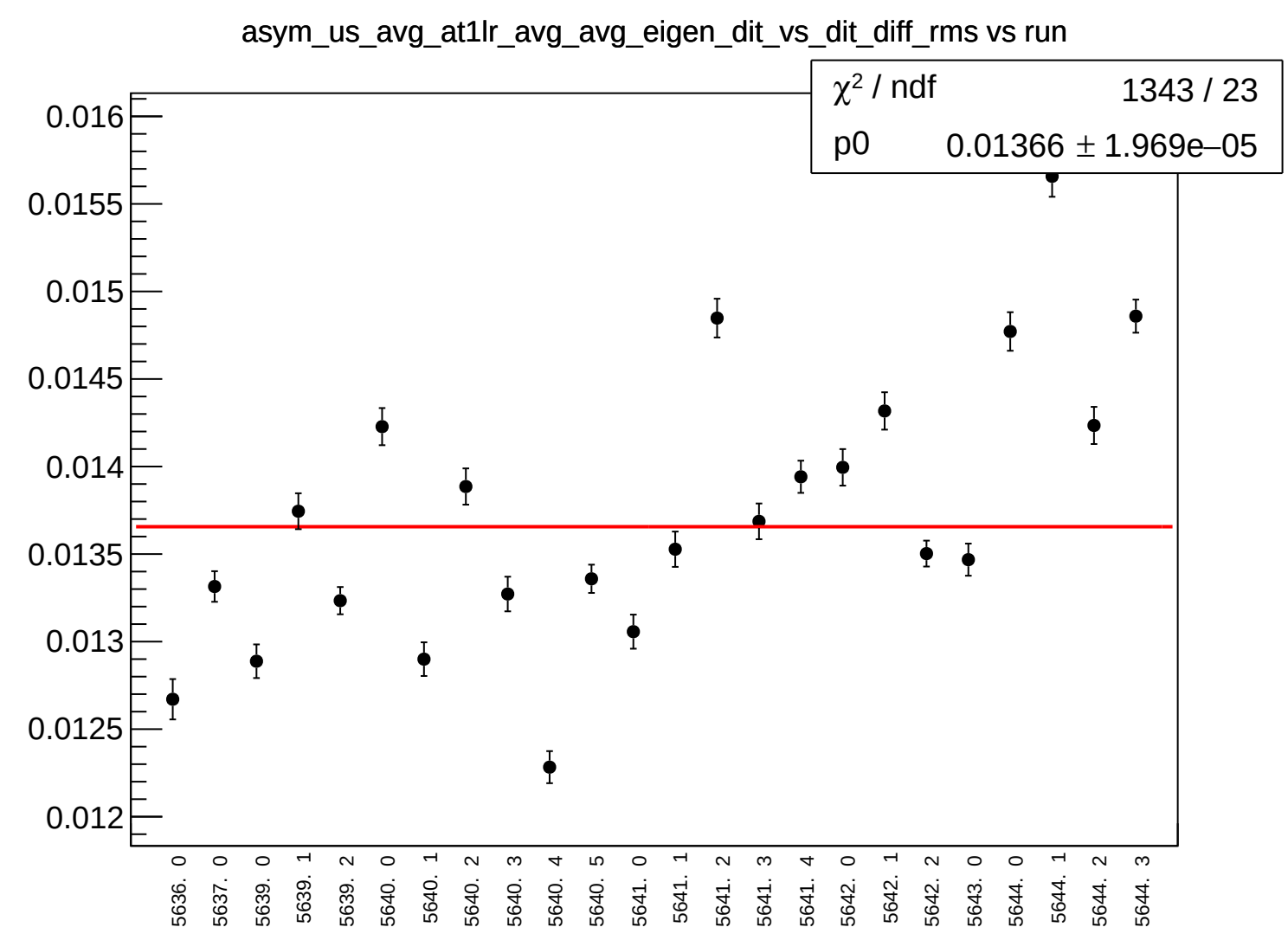

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 24.8 / 23
p0 −0.9587 ± 0.5439
6
4
2
0
−2
−4
−6
−8
−10
−12
−14
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −27.73
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean −0.05493
Std Dev 1.015
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

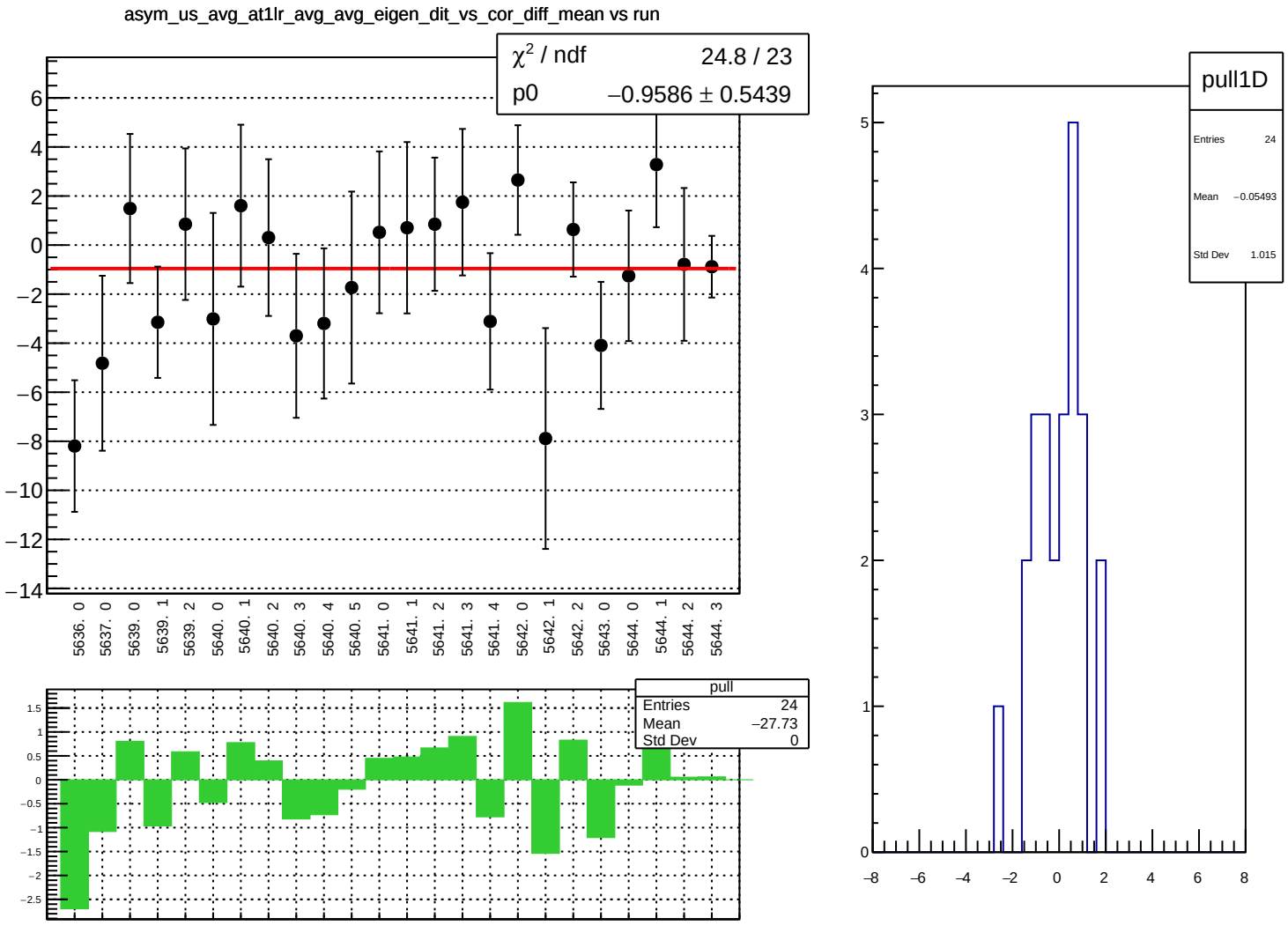

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.008e+04 / 23
p0 255.7 ± 0.3846
450
400
350
300
250
200
150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

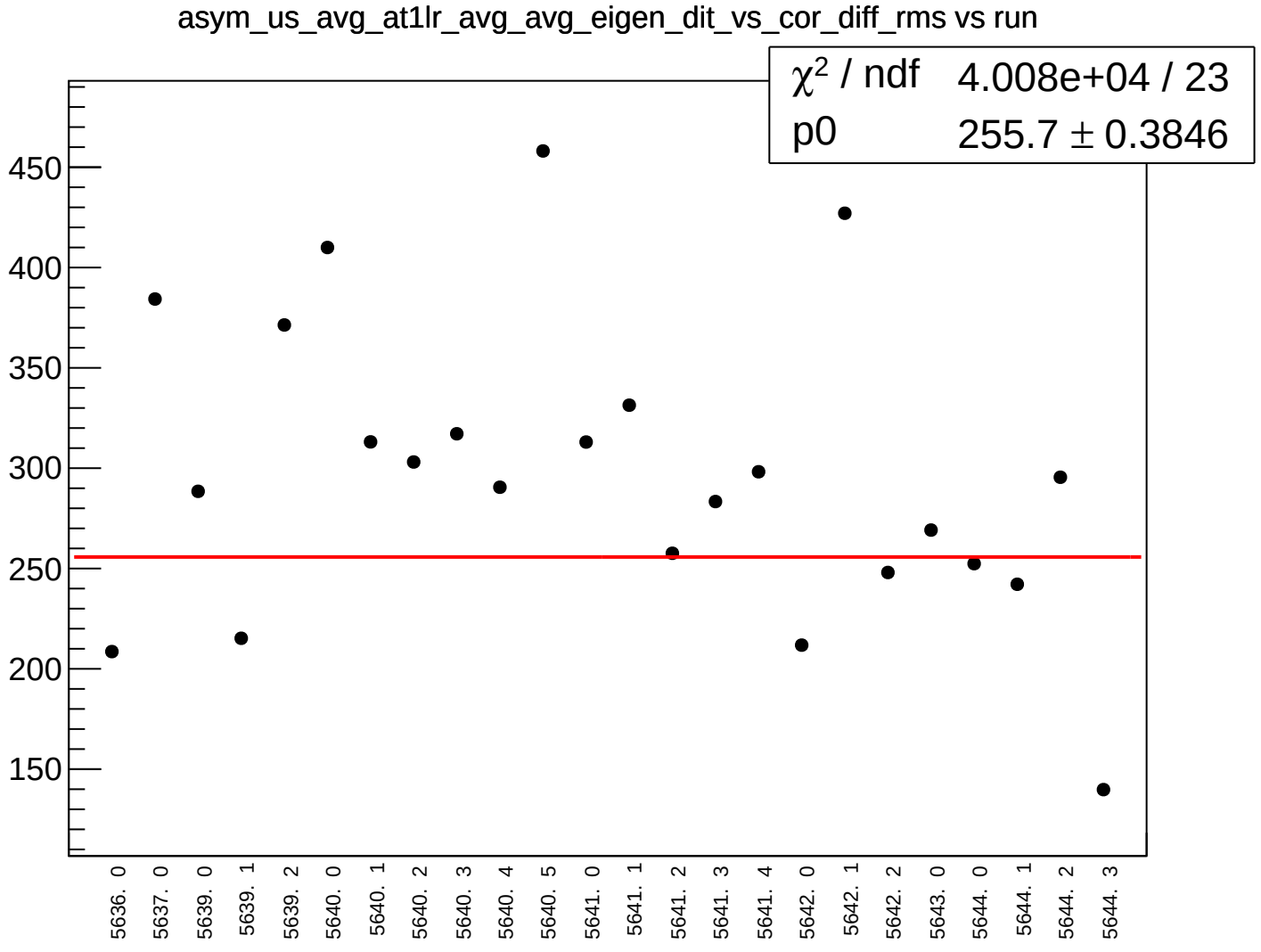

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.8 / 23
p0 −0.9587 ± 0.5439
6
4
2
0
−2
−4
−6
−8
−10
−12
−14
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −27.73
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean −0.05493
Std Dev 1.015
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

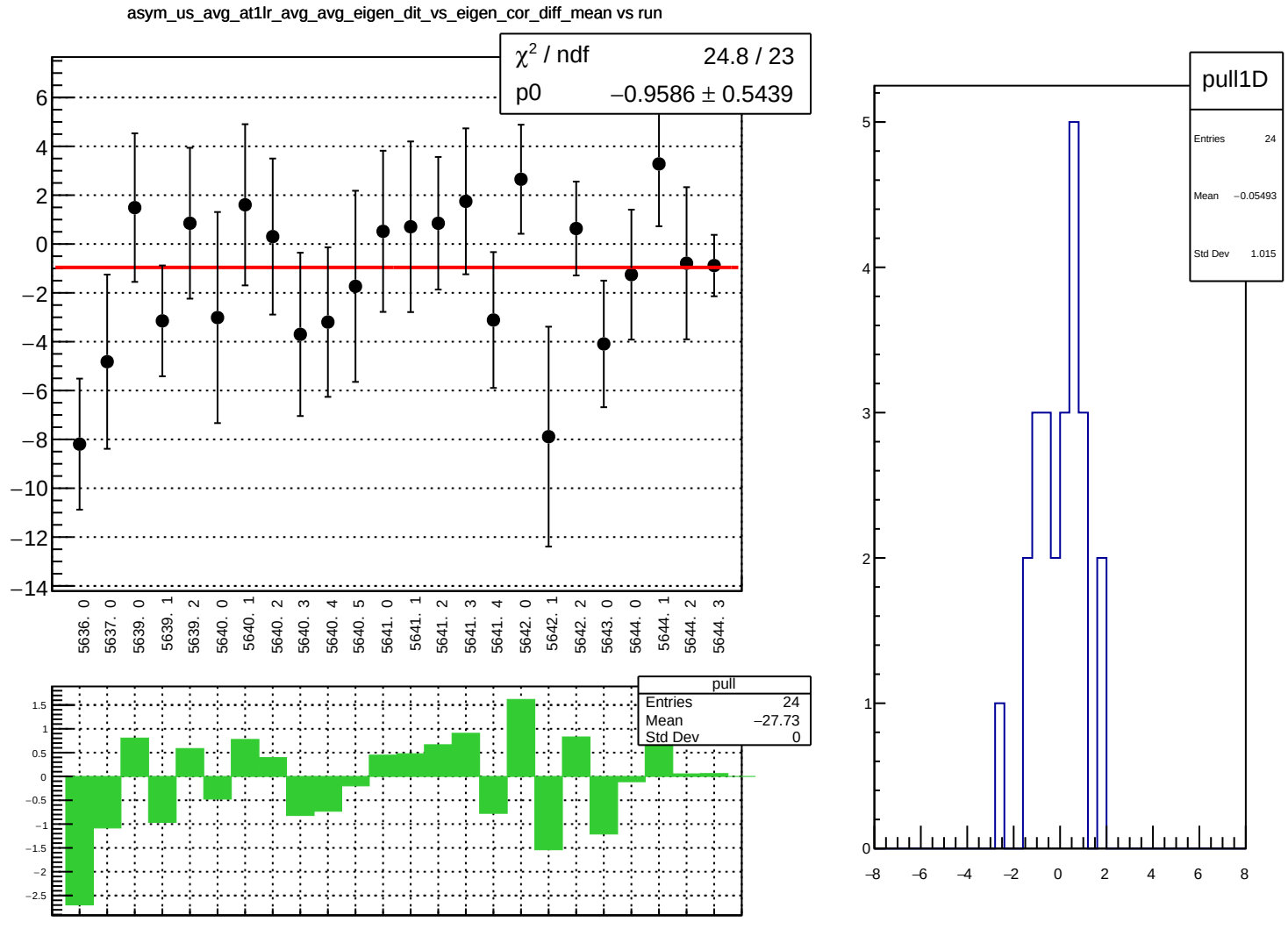

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.008e+04 / 23
p0 255.7 ± 0.3846
450
400
350
300
250
200
150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

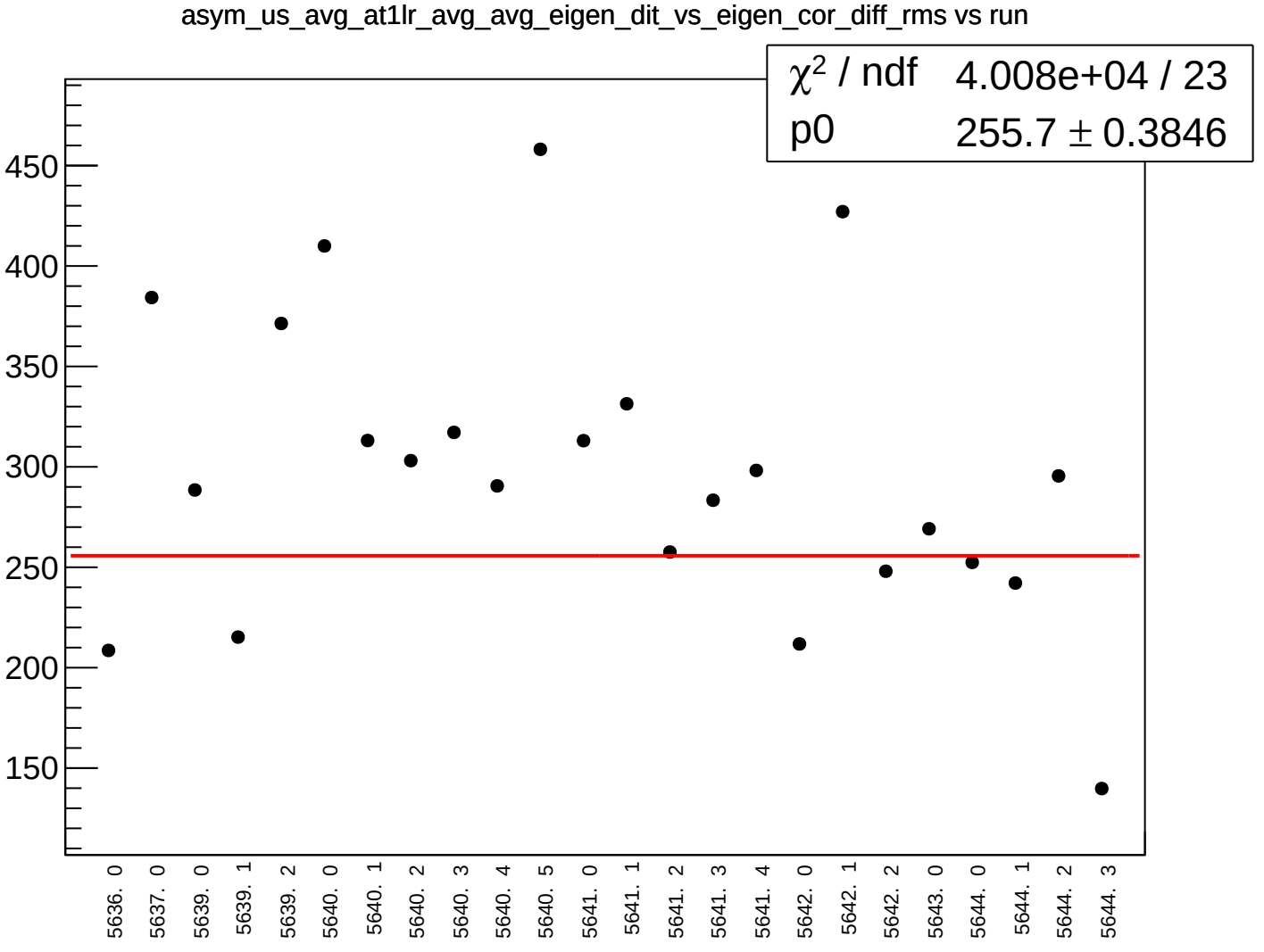

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 12.54 / 23
p0 2.715e−05 ± 2.785e−05
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −558.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.004281
Std Dev 0.7227
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

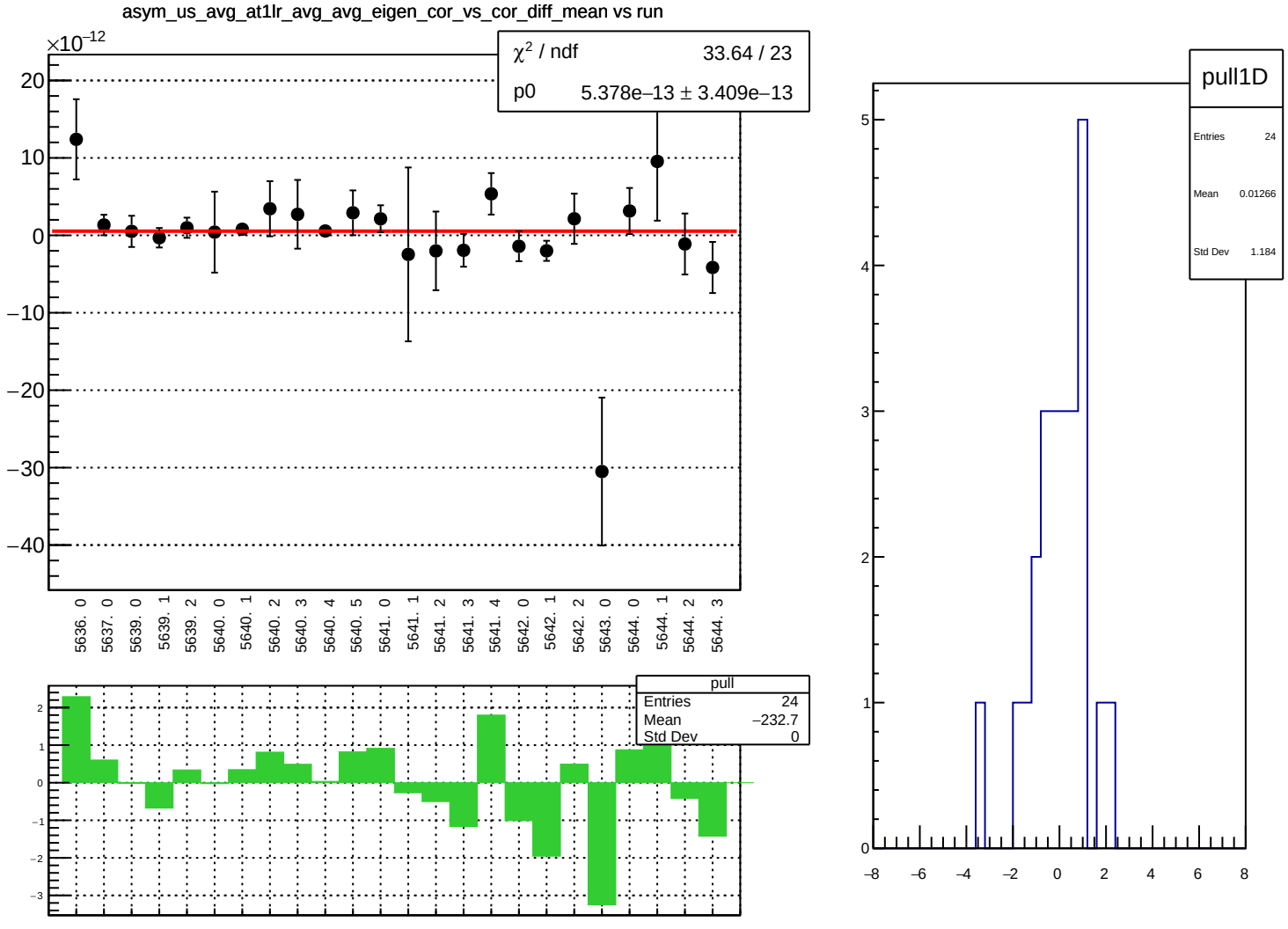

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1343 / 23
p0 0.01366 ± 1.969e−05
0.016
0.0155
0.015
0.0145
0.014
0.0135
0.013
0.0125
0.012
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

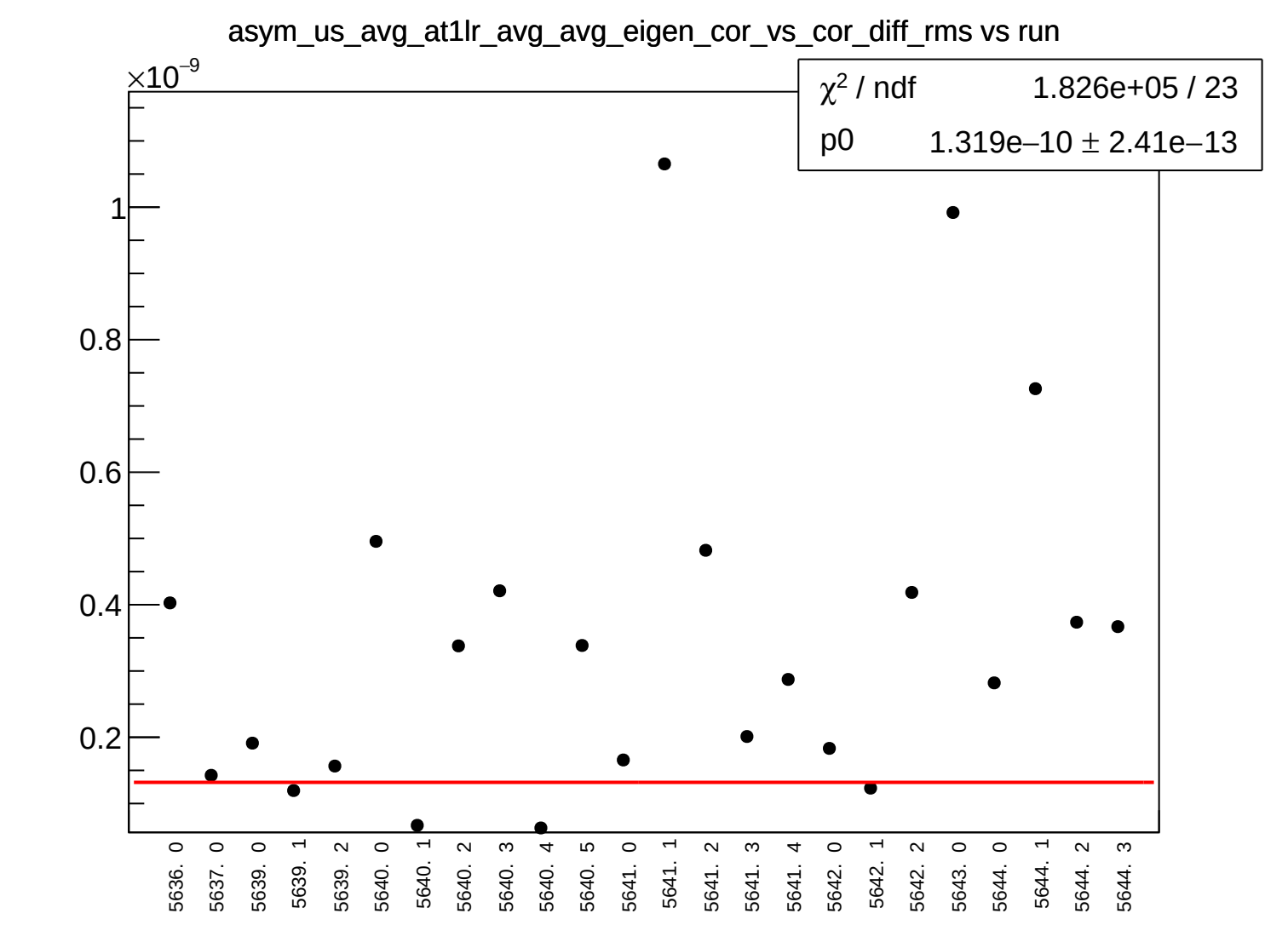

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 24.8 / 23
p0 −0.9586 ± 0.5439
6
4
2
0
−2
−4
−6
−8
−10
−12
−14
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −27.73
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean −0.05493
Std Dev 1.015
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

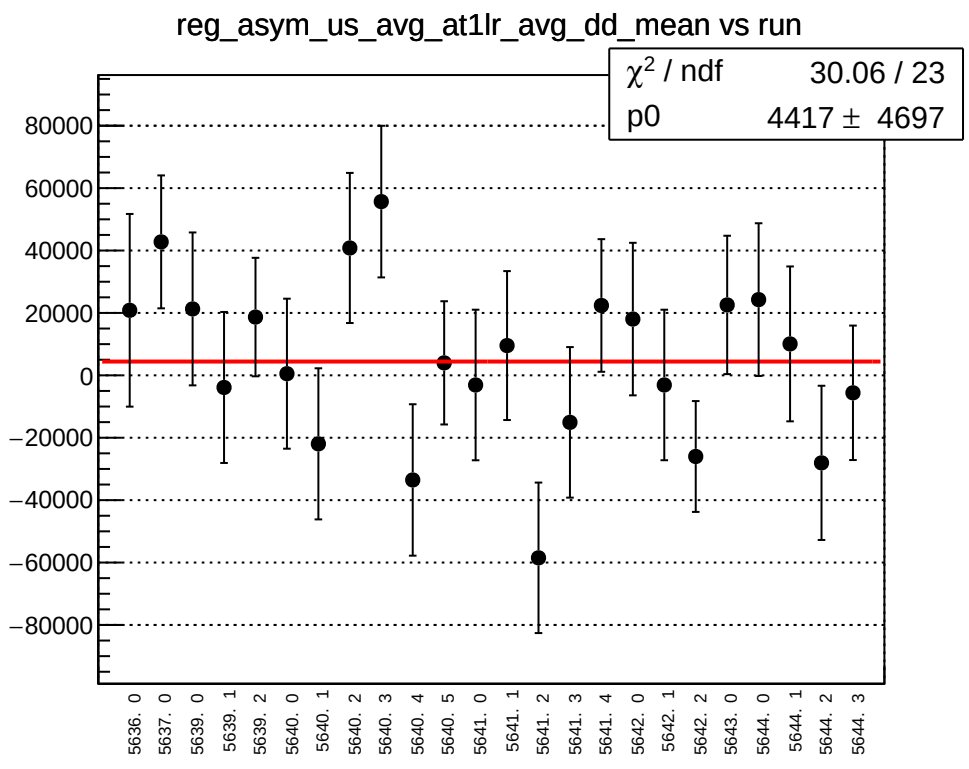

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.008e+04 / 23
p0 255.7 ± 0.3846
450
400
350
300
250
200
150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

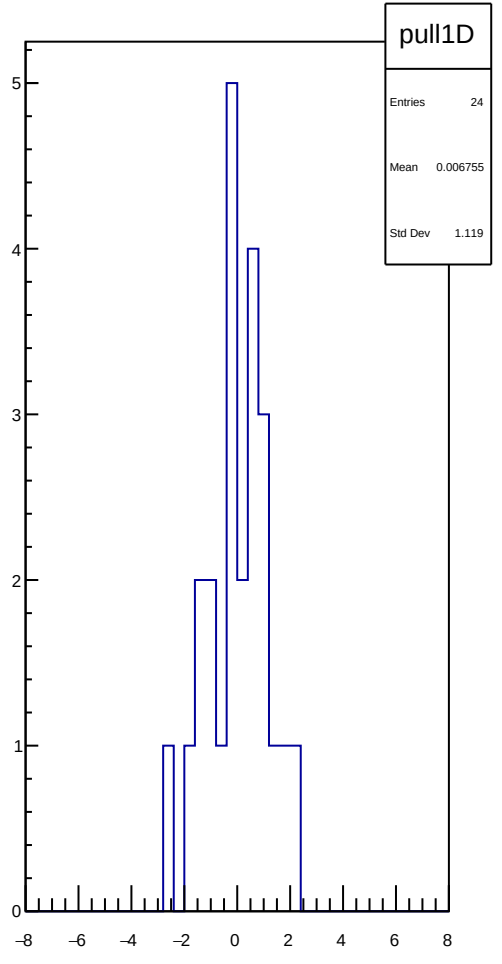

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.8 / 23
p0 −0.9586 ± 0.5439
6
4
2
0
−2
−4
−6
−8
−10
−12
−14
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −27.73
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean −0.05493
Std Dev 1.015
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

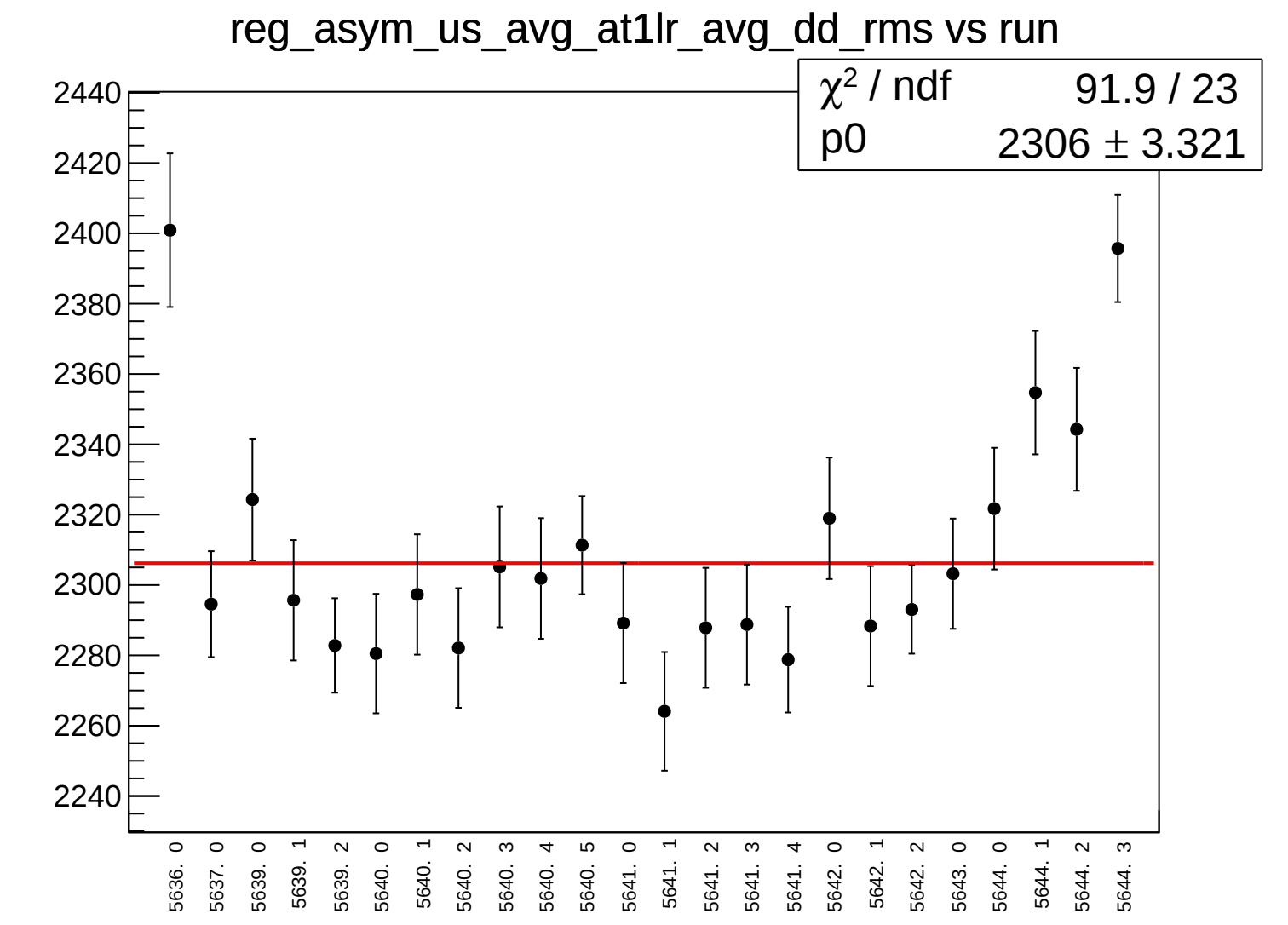

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.008e+04 / 23
p0 255.7 ± 0.3846
450
400
350
300
250
200
150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

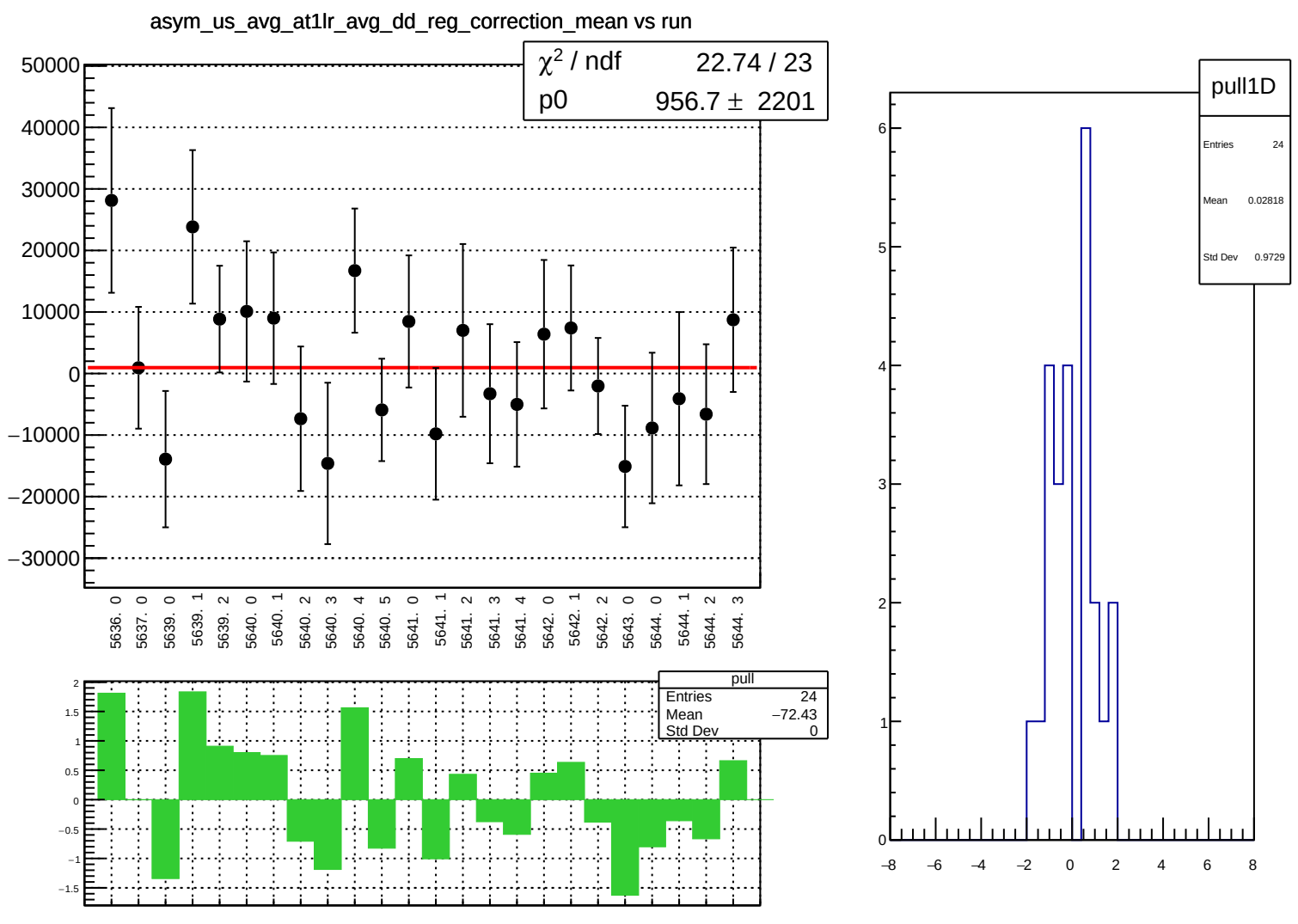

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 33.64 / 23
p0 5.378e−13 ± 3.409e−13
20
10
0
−10
−20
−30
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −232.7
Std Dev 0
pull1D
Entries 24
Mean 0.01266
Std Dev 1.184

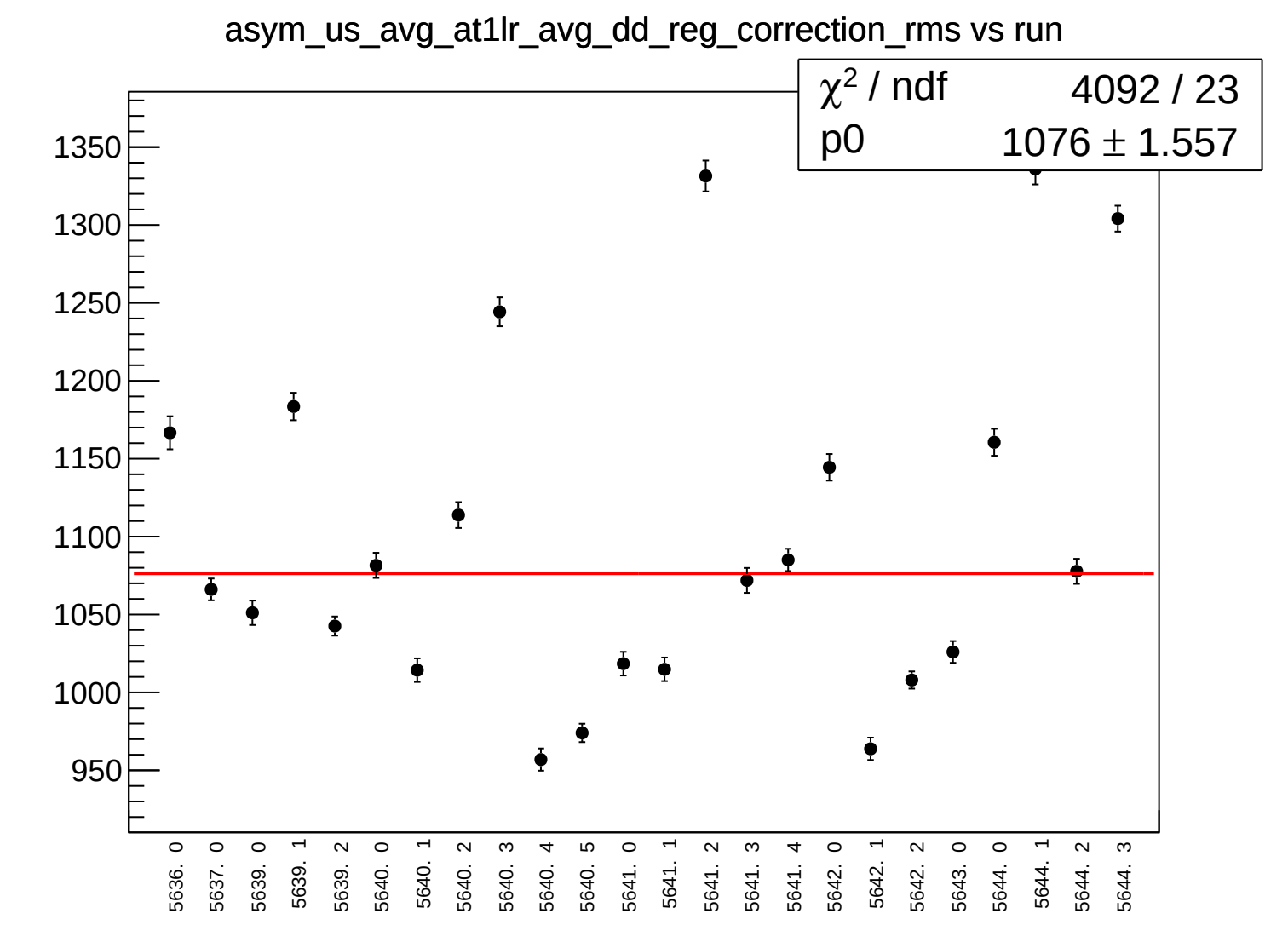

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.826e+05 / 23
p0 1.319e−10 ± 2.41e−13
1
0.8
0.6
0.4
0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 30.06 / 23
p0 4417 ± 4697
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −324.1
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 24
Mean 0.006755
Std Dev 1.119
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 91.9 / 23
p0 2306 ± 3.321
2440
2420
2400
2380
2360
2340
2320
2300
2280
2260
2240
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 22.74 / 23
p0 956.7 ± 2201
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −72.43
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.02818
Std Dev 0.9729
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 4092 / 23
p0 1076 ± 1.557
1350
1300
1250
1200
1150
1100
1050
1000
950
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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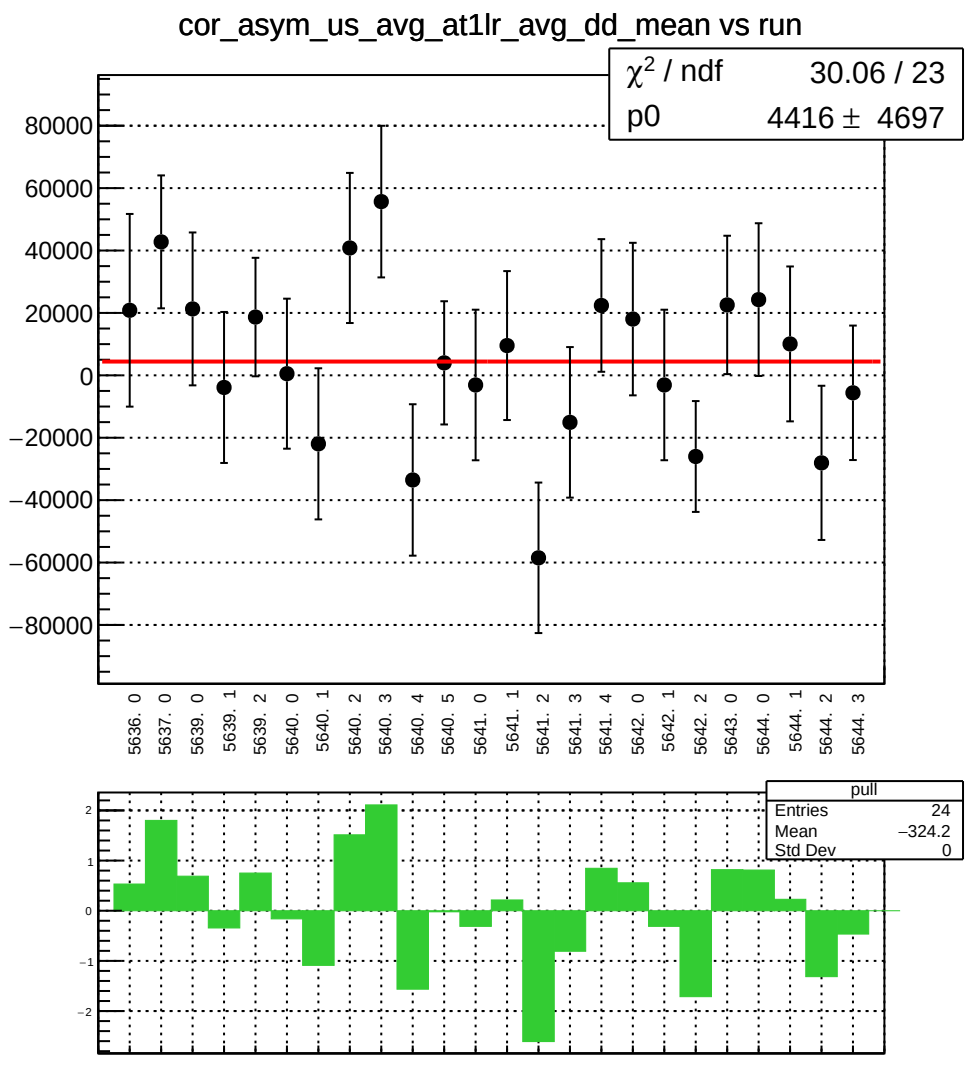
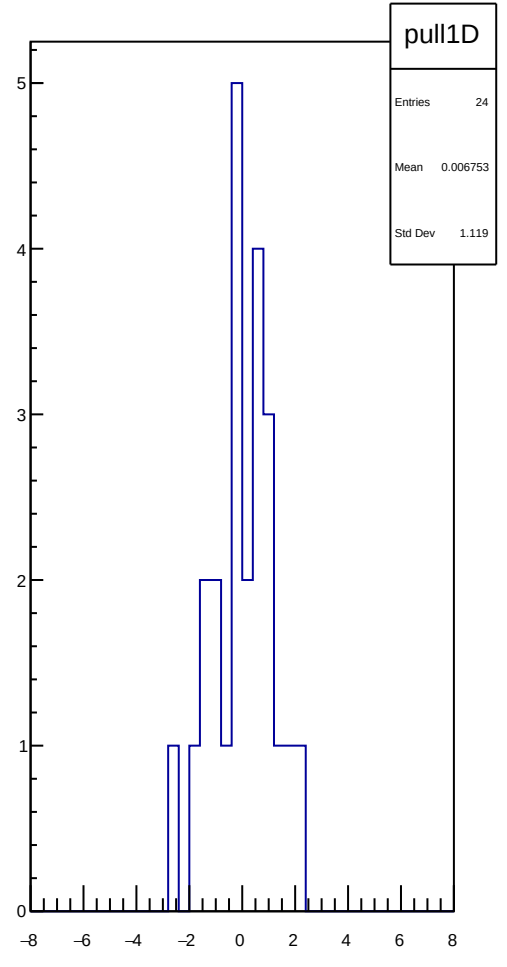
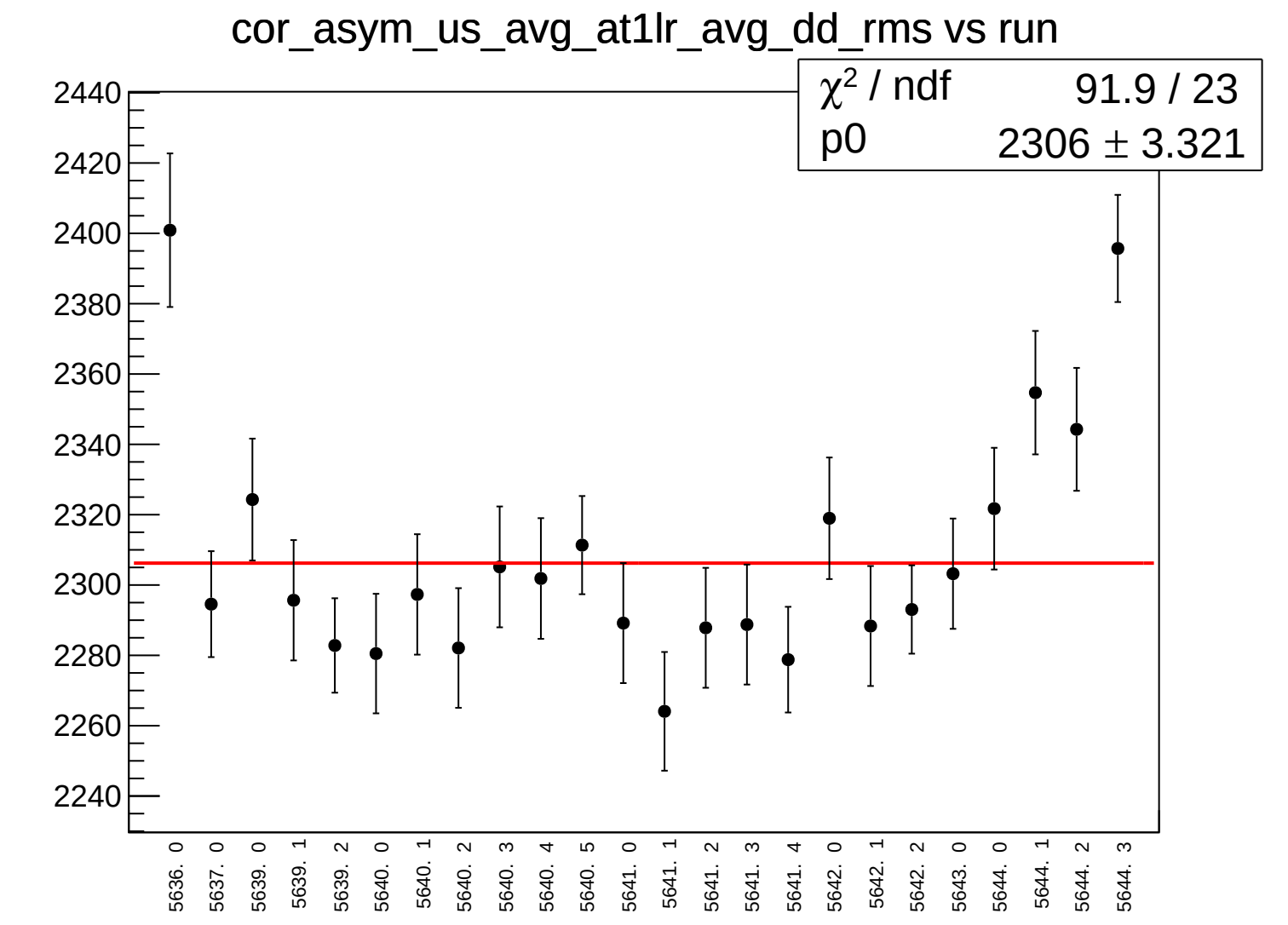
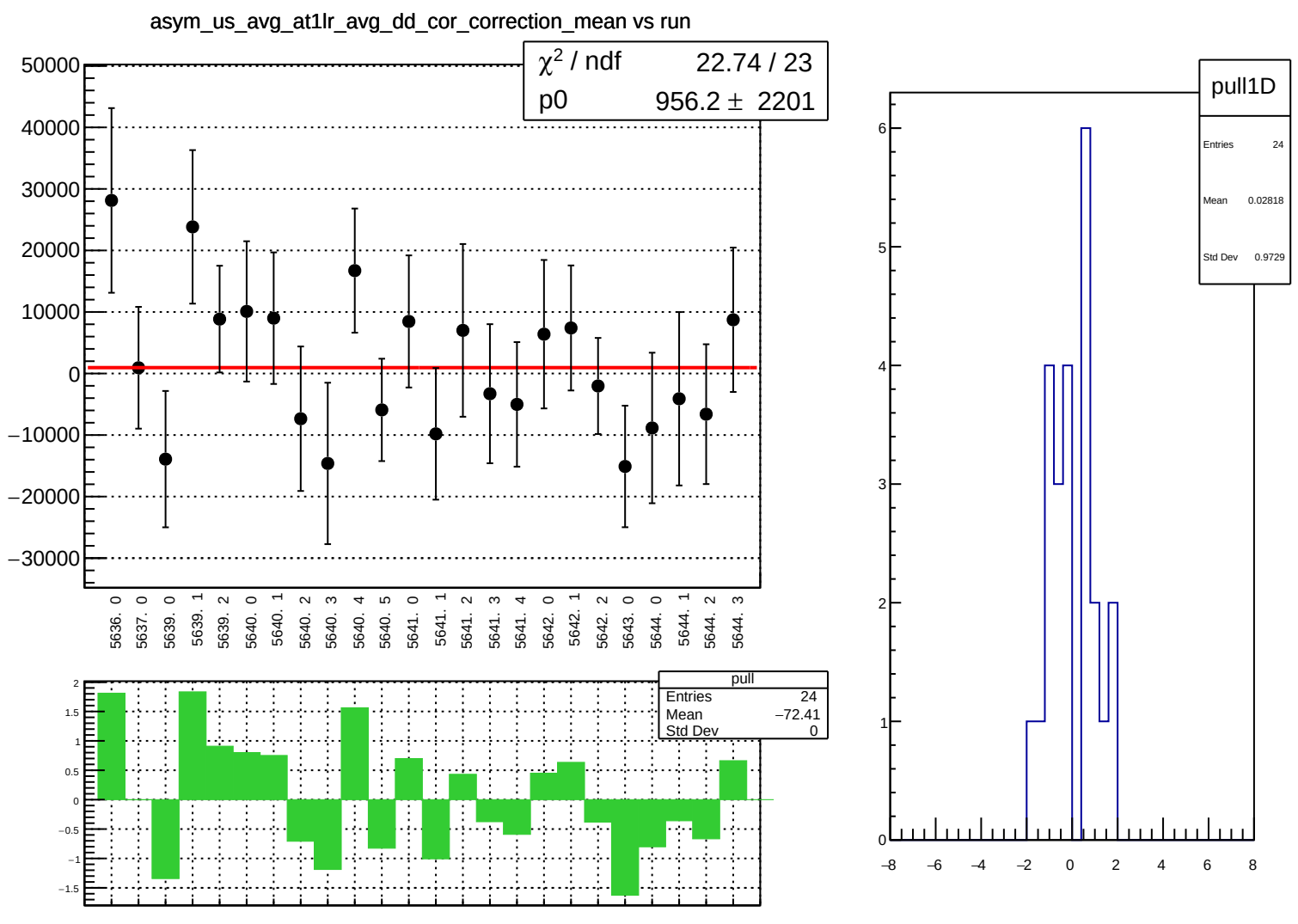
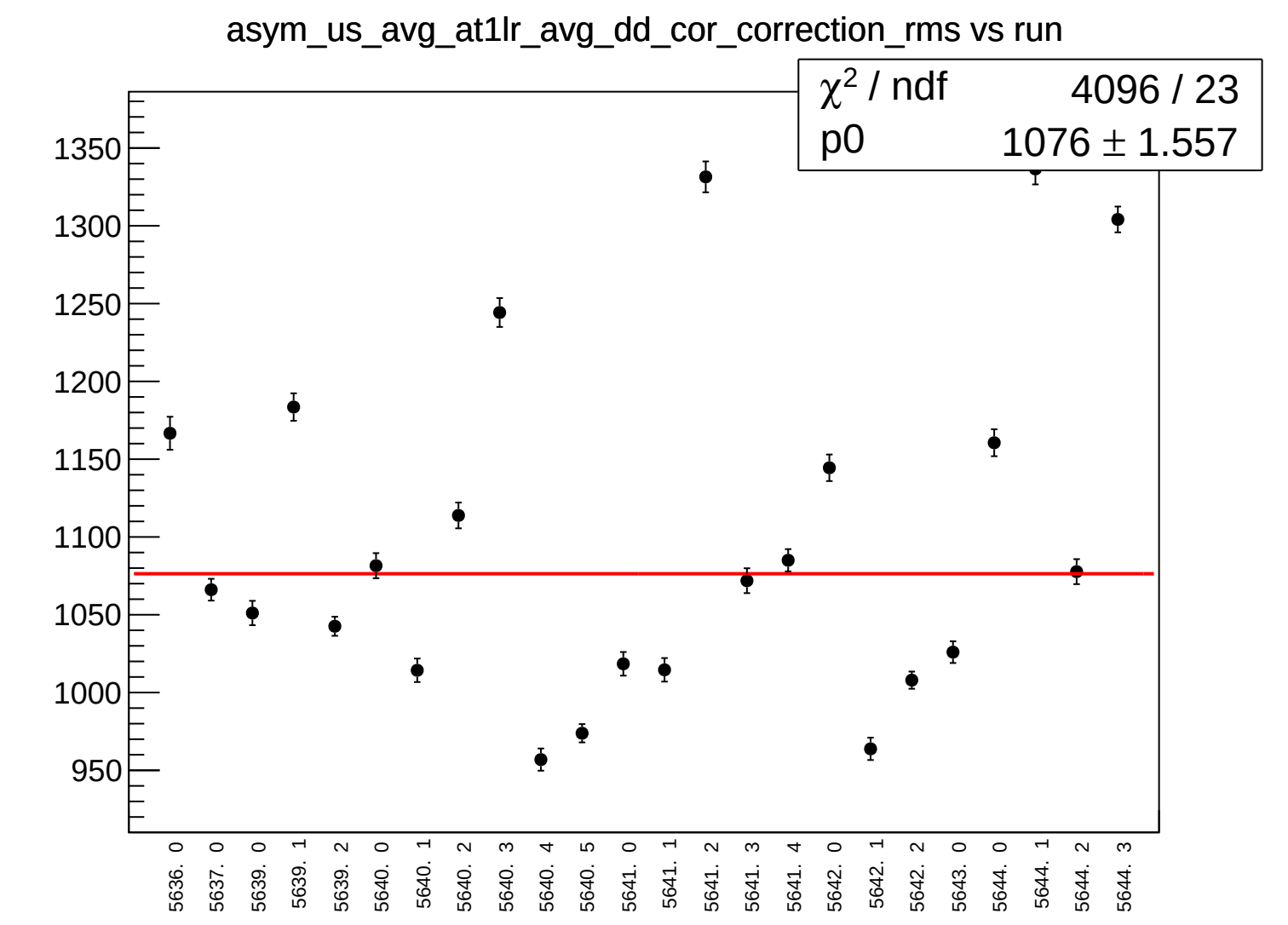
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 30.06 / 23
p0 4416 ± 4697
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −324.2
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 24
Mean 0.006753
Std Dev 1.119
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 91.9 / 23
p0 2306 ± 3.321
2440
2420
2400
2380
2360
2340
2320
2300
2280
2260
2240
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 22.74 / 23
p0 956.2 ± 2201
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −72.41
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.02818
Std Dev 0.9729
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 4096 / 23
p0 1076 ± 1.557
1350
1300
1250
1200
1150
1100
1050
1000
950
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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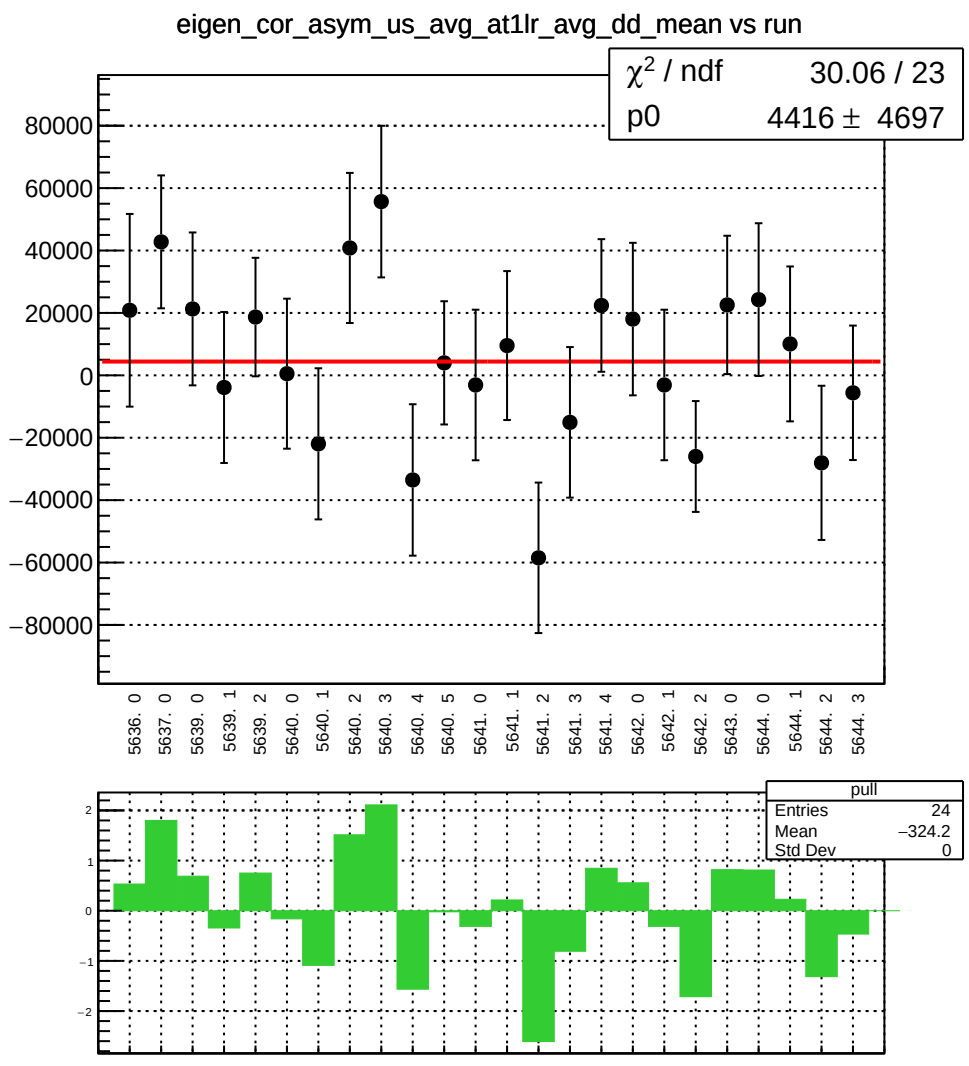
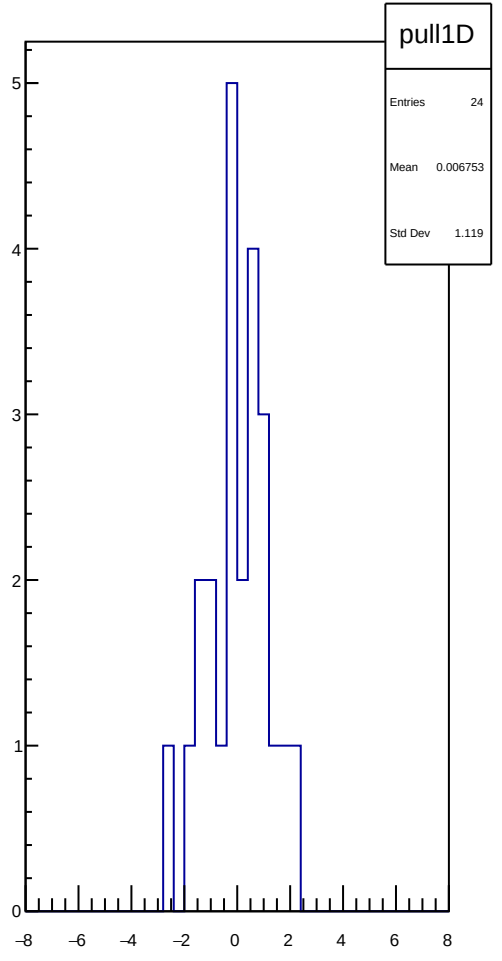
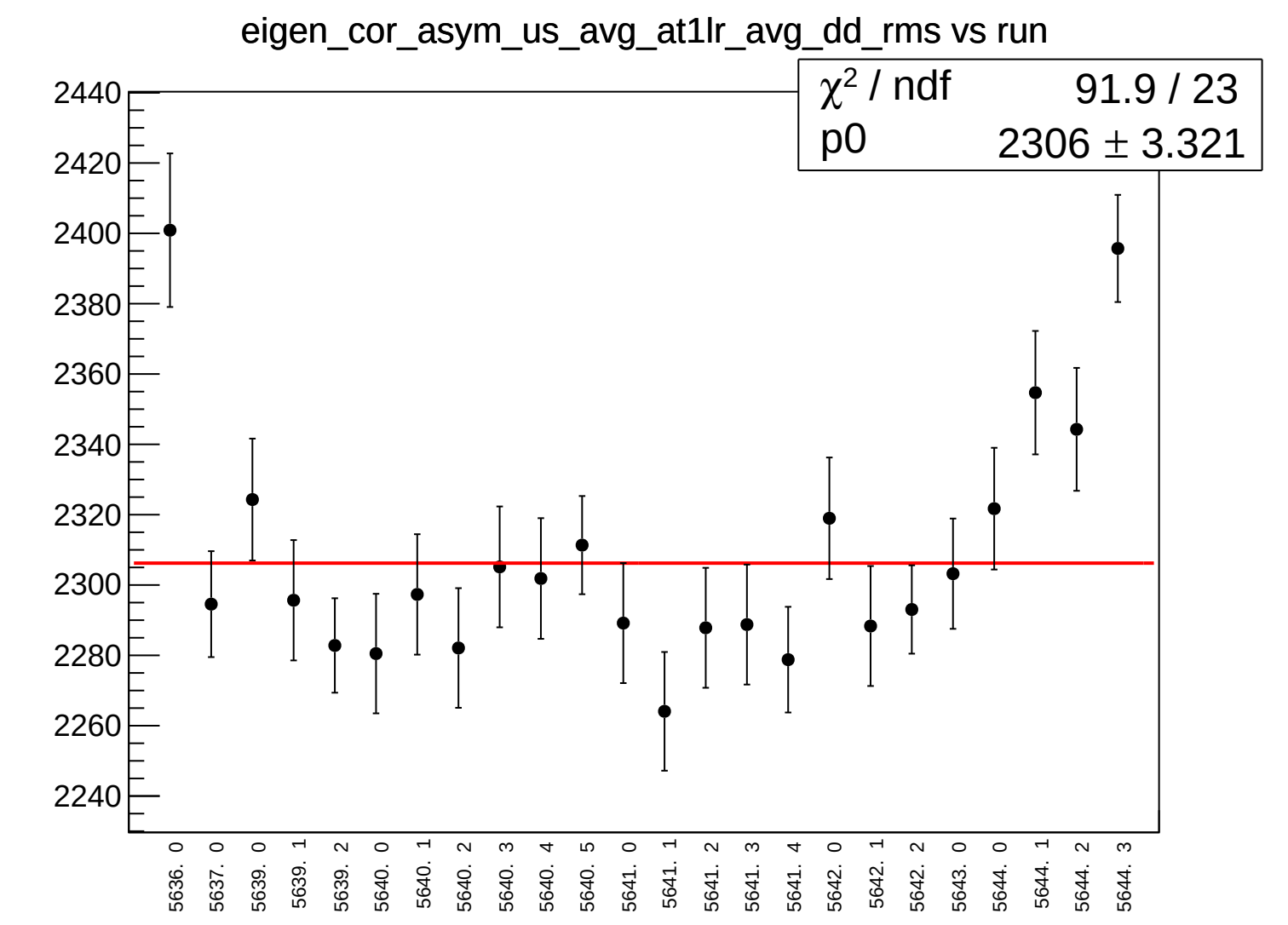
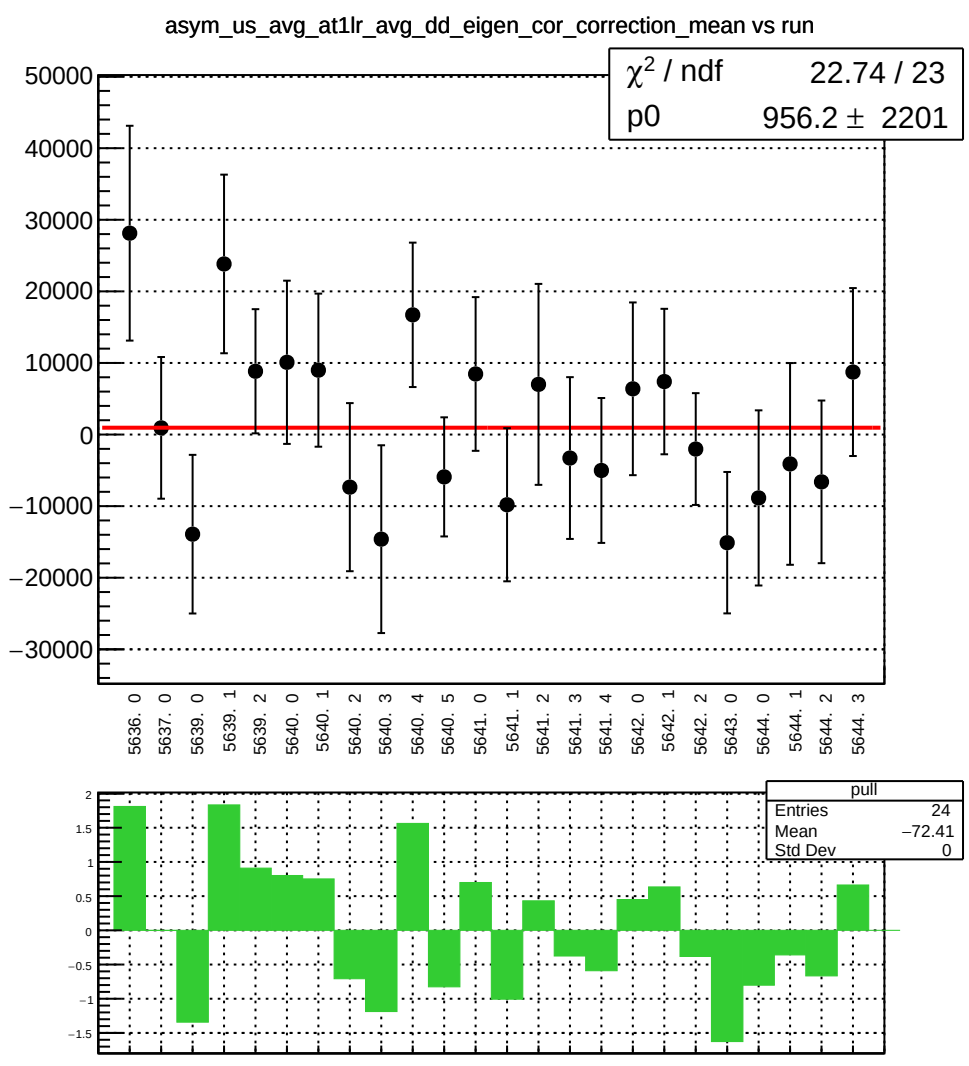
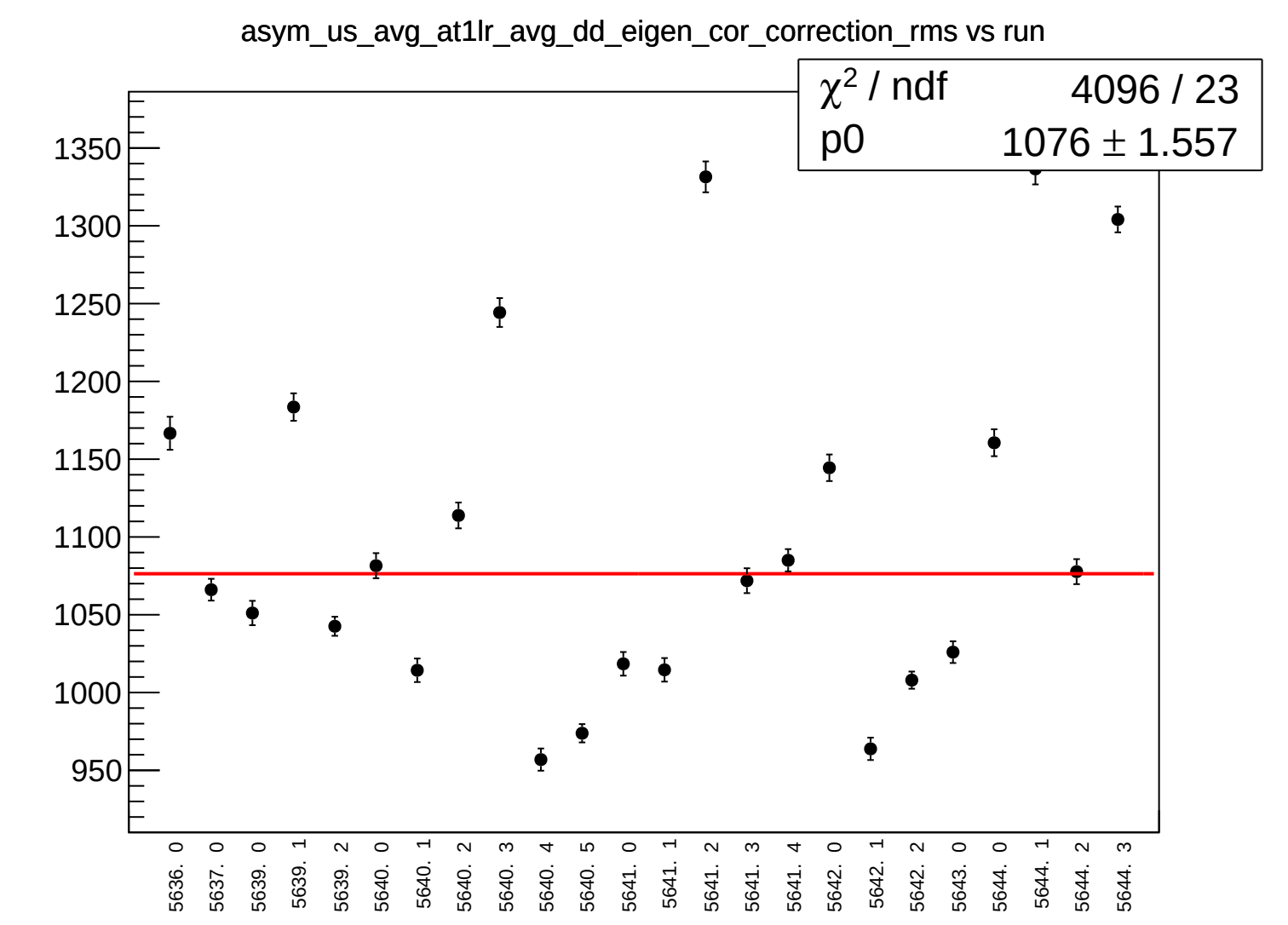
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 30.06 / 23
p0 4416 ± 4697
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −324.2
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 24
Mean 0.006753
Std Dev 1.119
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 91.9 / 23
p0 2306 ± 3.321
2440
2420
2400
2380
2360
2340
2320
2300
2280
2260
2240
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 22.74 / 23
p0 956.2 ± 2201
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −72.41
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.02818
Std Dev 0.9729
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 4096 / 23
p0 1076 ± 1.557
1350
1300
1250
1200
1150
1100
1050
1000
950
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
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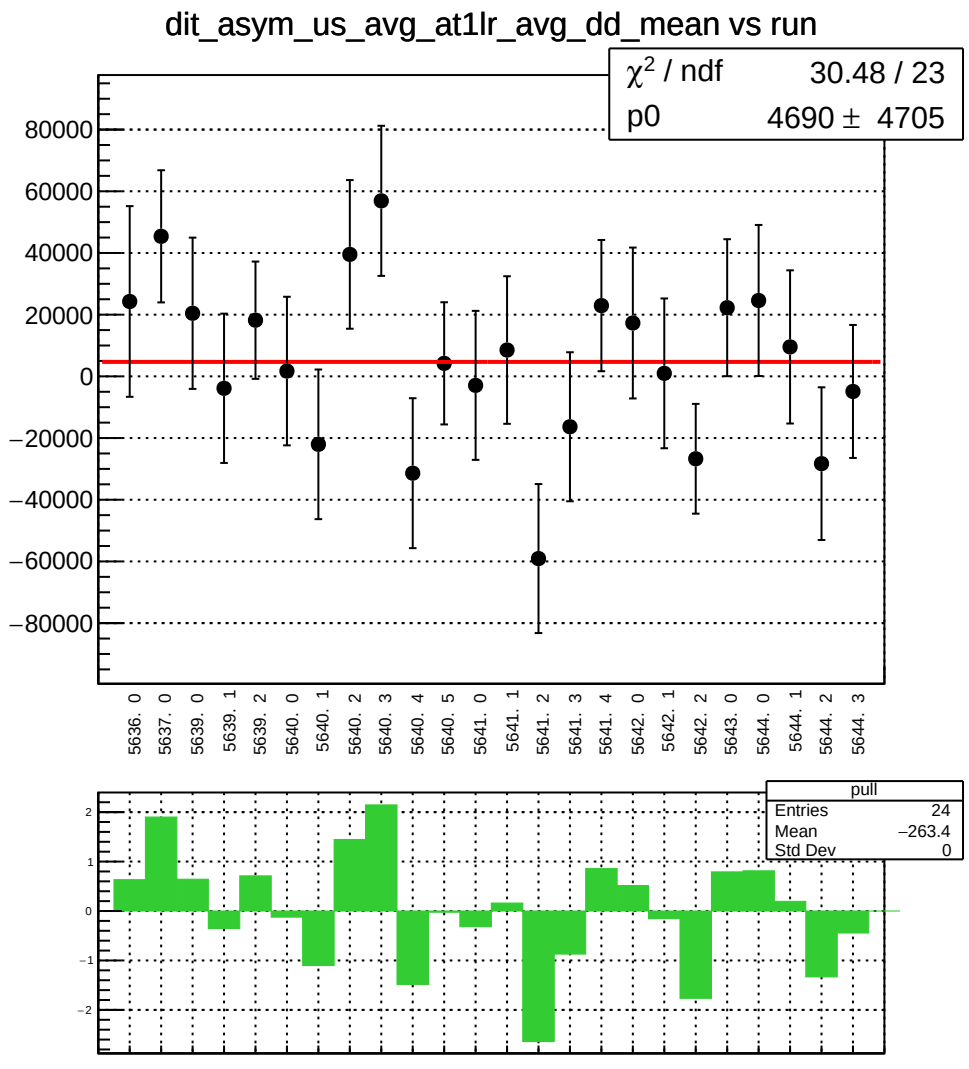
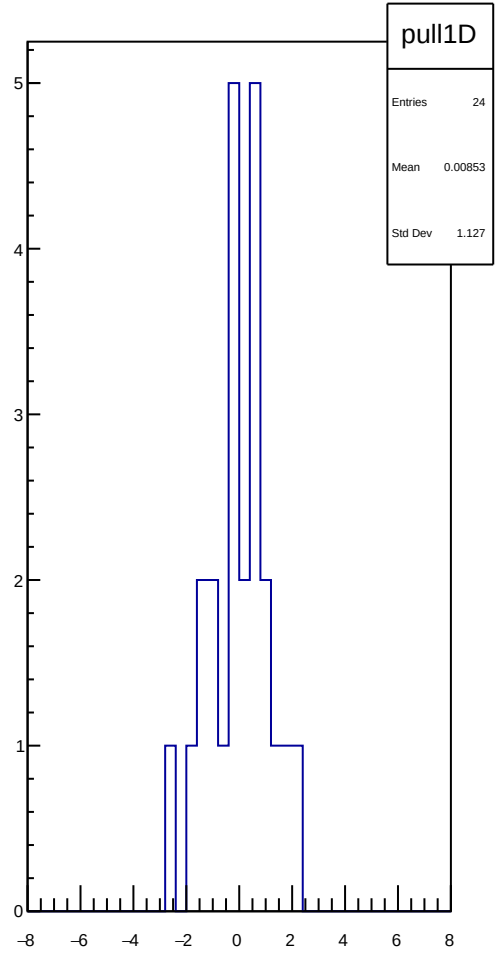
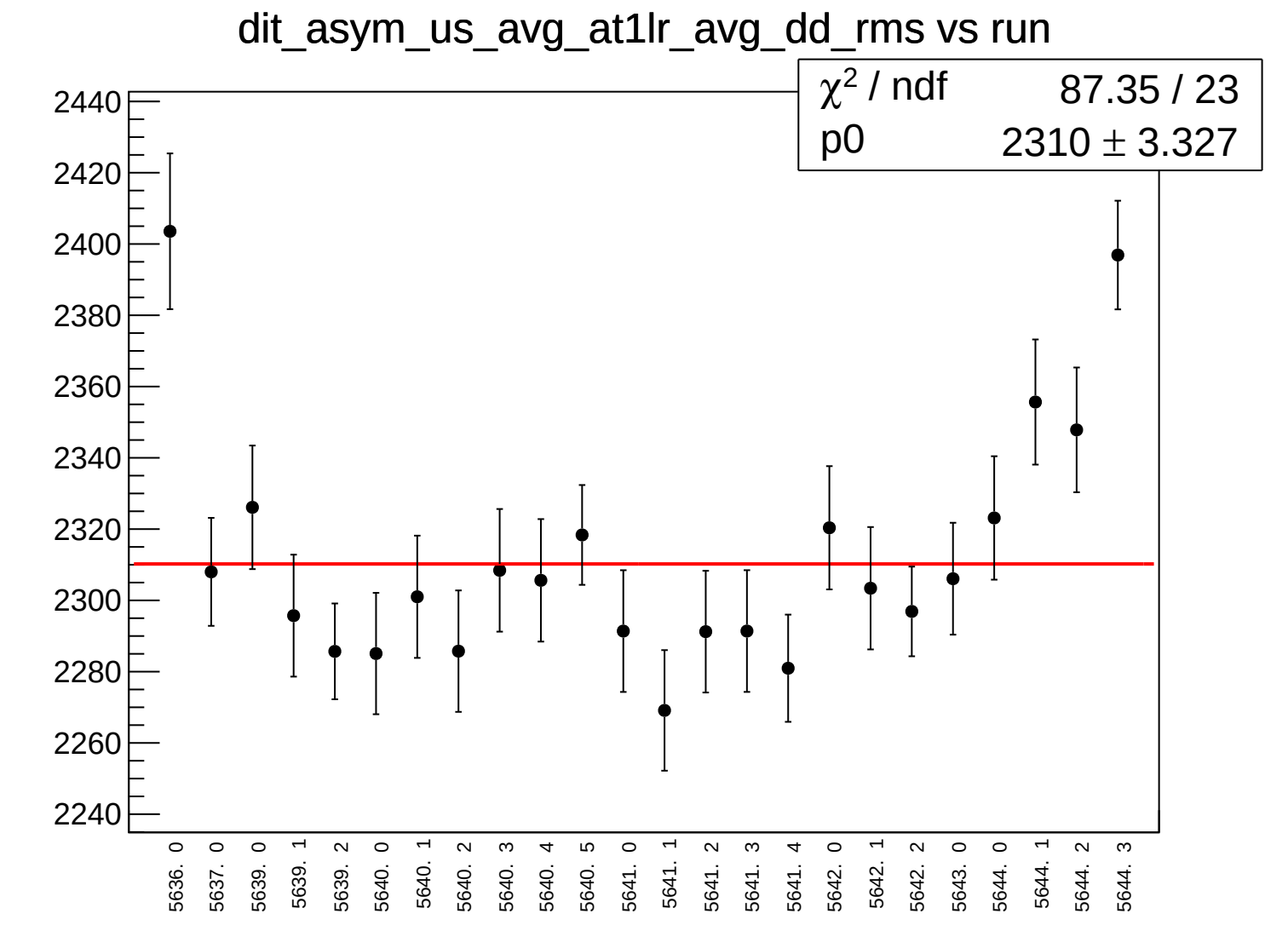
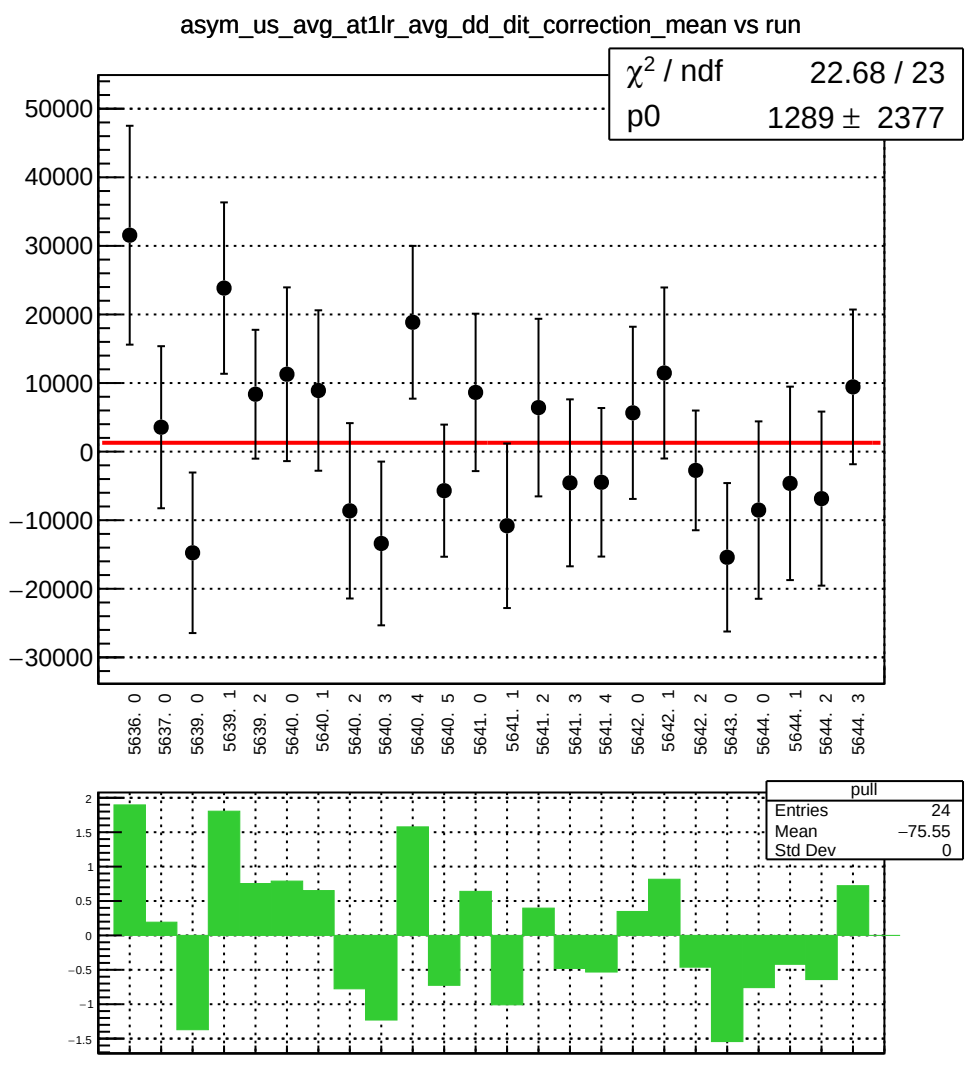
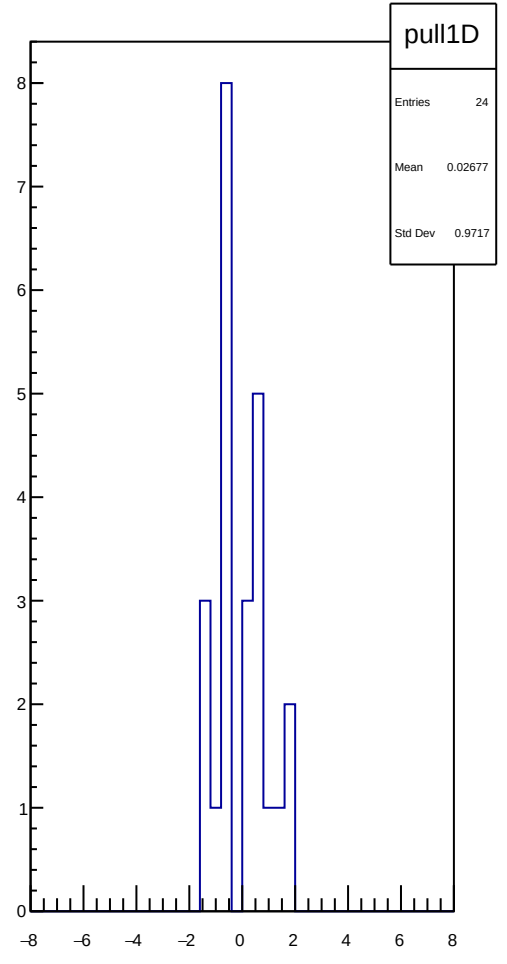
5644. 2
5644. 3

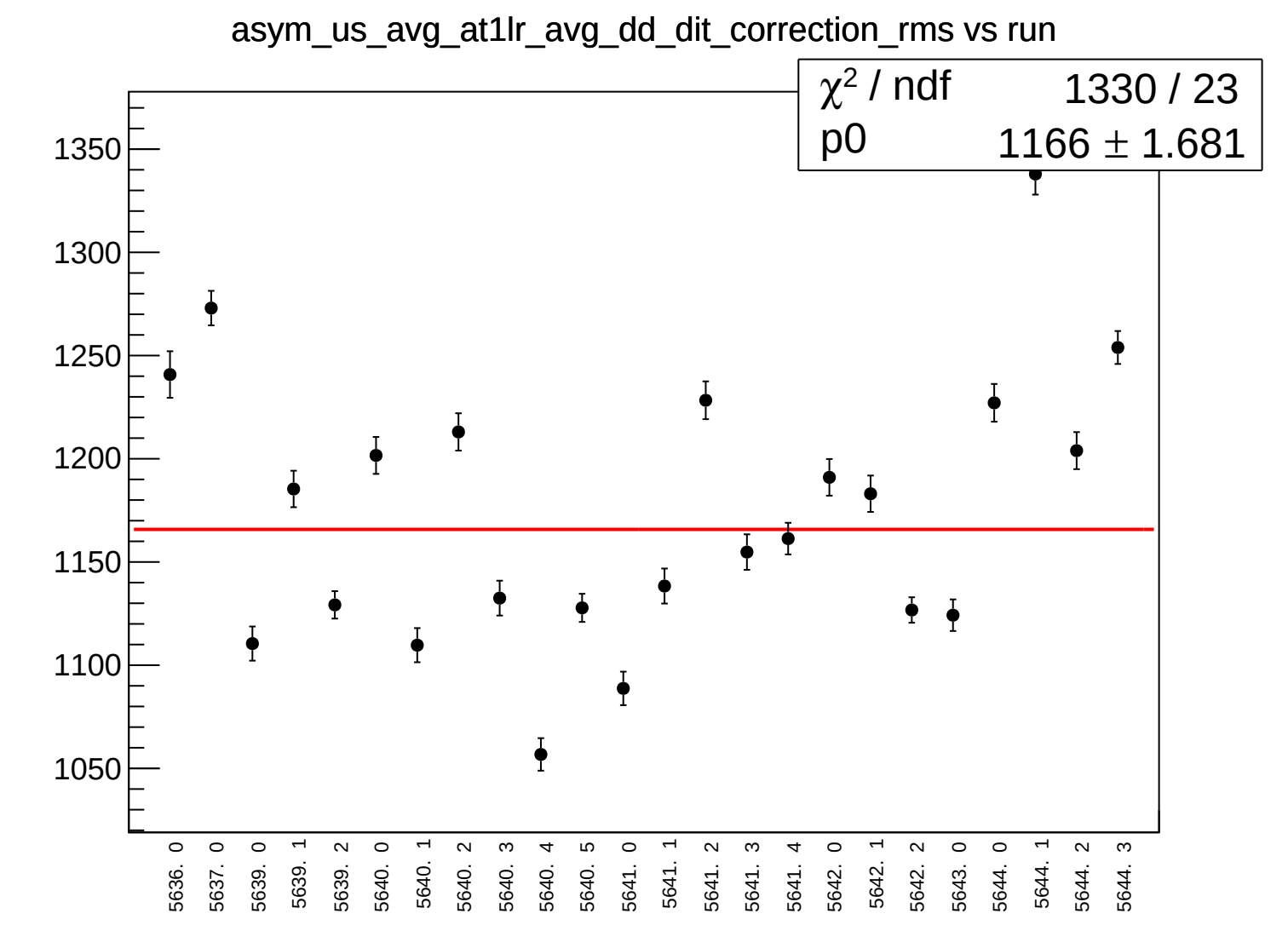

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 30.48 / 23
p0 4690 ± 4705
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −263.4
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 24
Mean 0.00853
Std Dev 1.127
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 87.35 / 23
p0 2310 ± 3.327
2440
2420
2400
2380
2360
2340
2320
2300
2280
2260
2240
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 22.68 / 23
p0 1289 ± 2377
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −75.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean 0.02677
Std Dev 0.9717
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 1330 / 23
p0 1166 ± 1.681
1350
1300
1250
1200
1150
1100
1050
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5642. 2
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5644. 0
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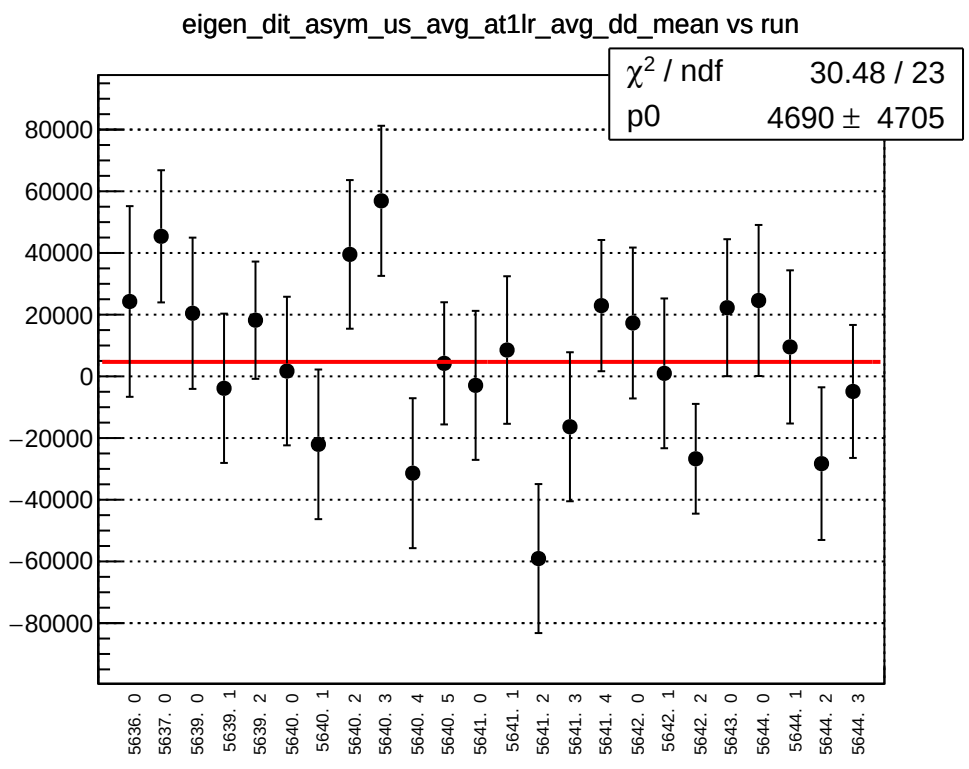
5644. 2
5644. 3


eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 30.48 / 23
p0 4690 ± 4705
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
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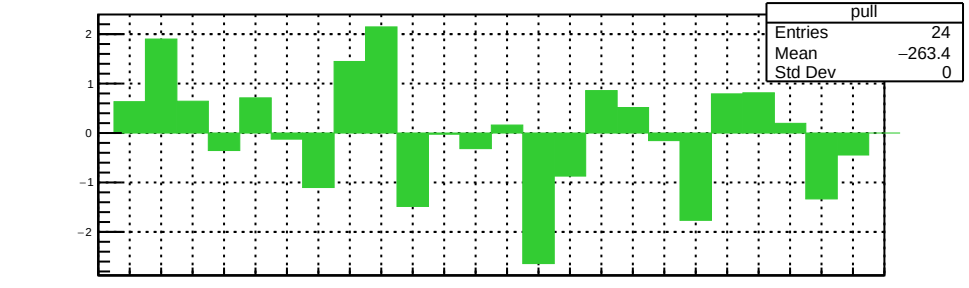
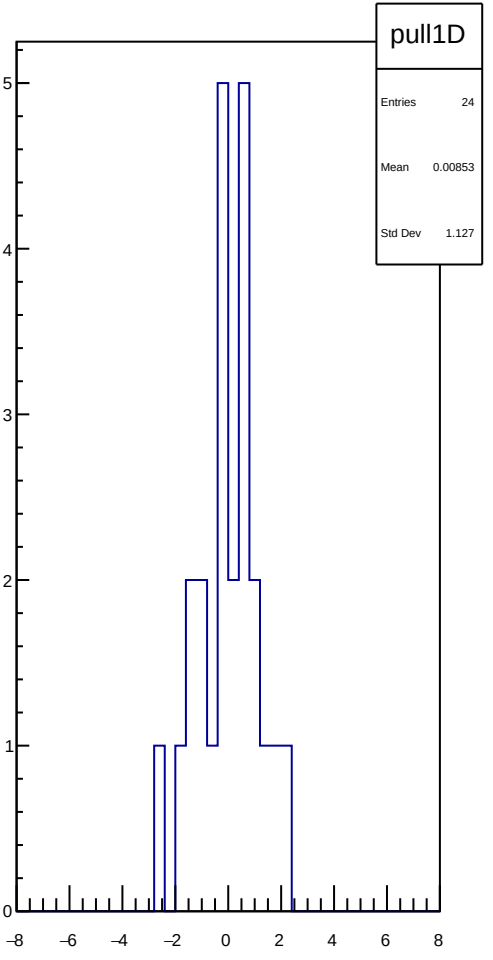
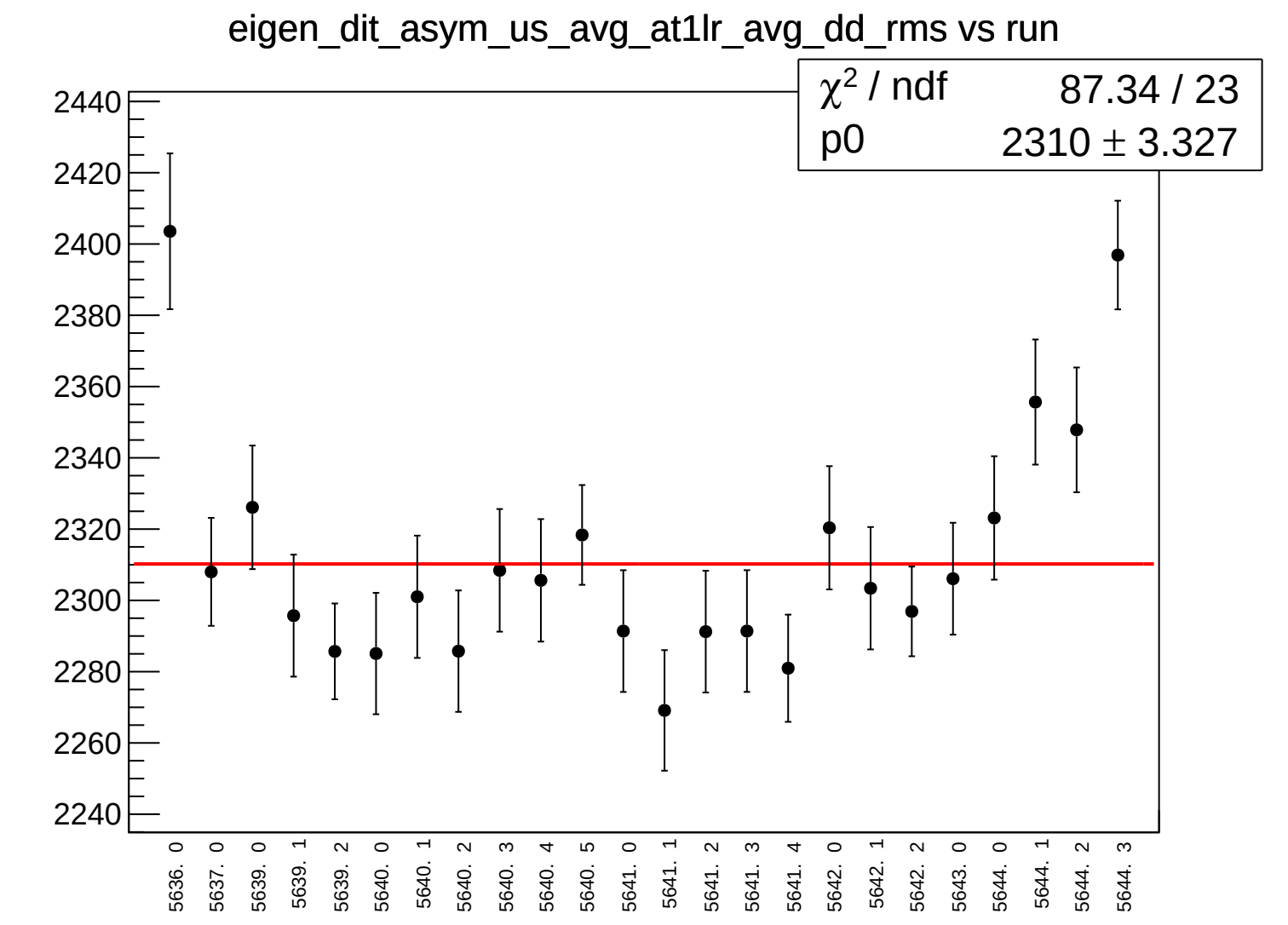
5644. 2
5644. 3


pull
Entries 24
Mean −263.4
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 24
Mean 0.00853
Std Dev 1.127
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 87.34 / 23
p0 2310 ± 3.327
2440
2420
2400
2380
2360
2340
2320
2300
2280
2260
2240
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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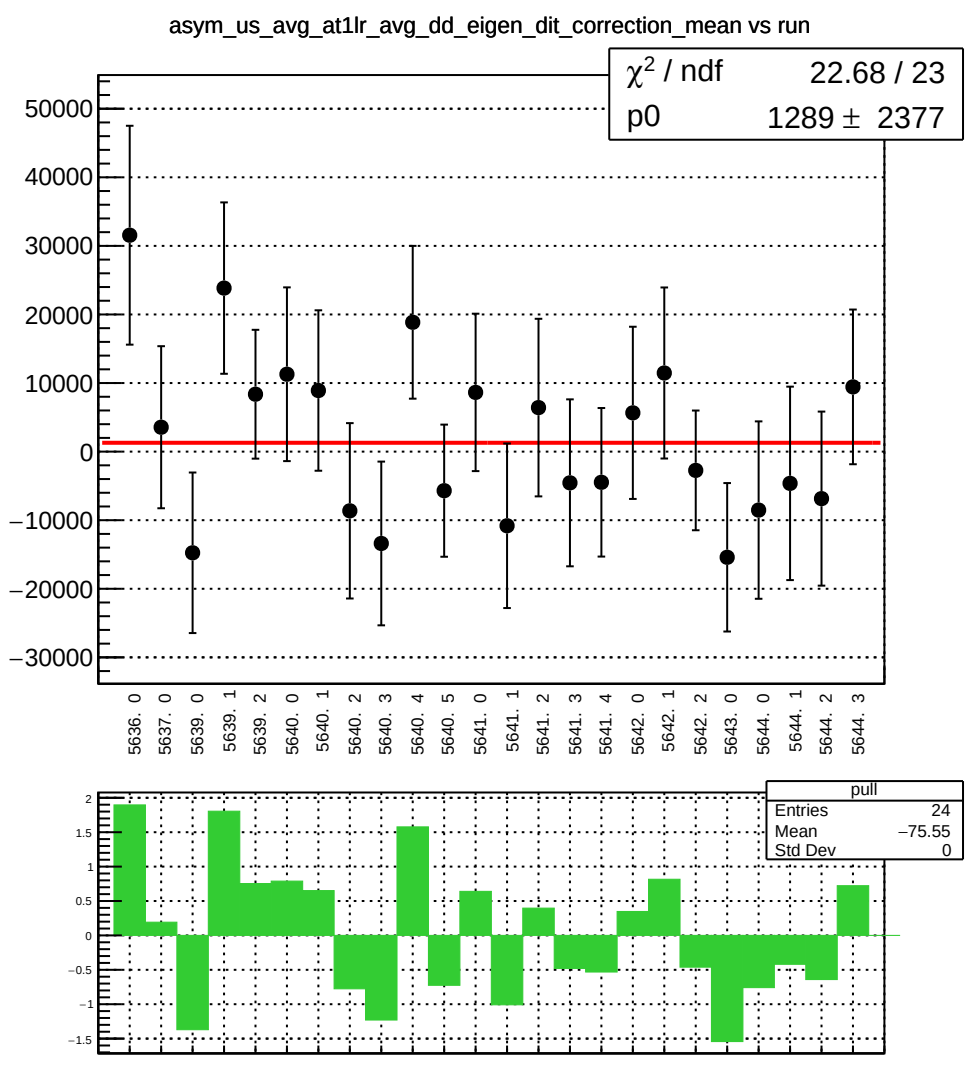
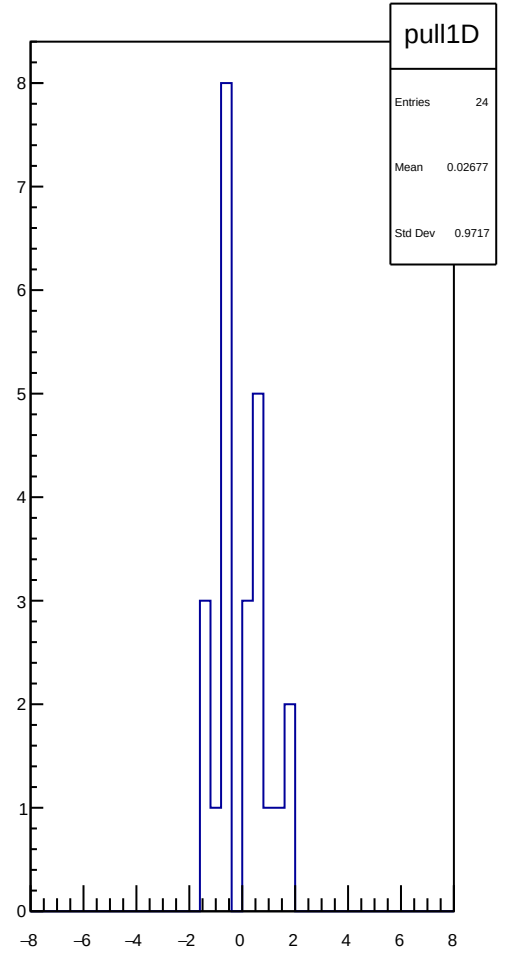
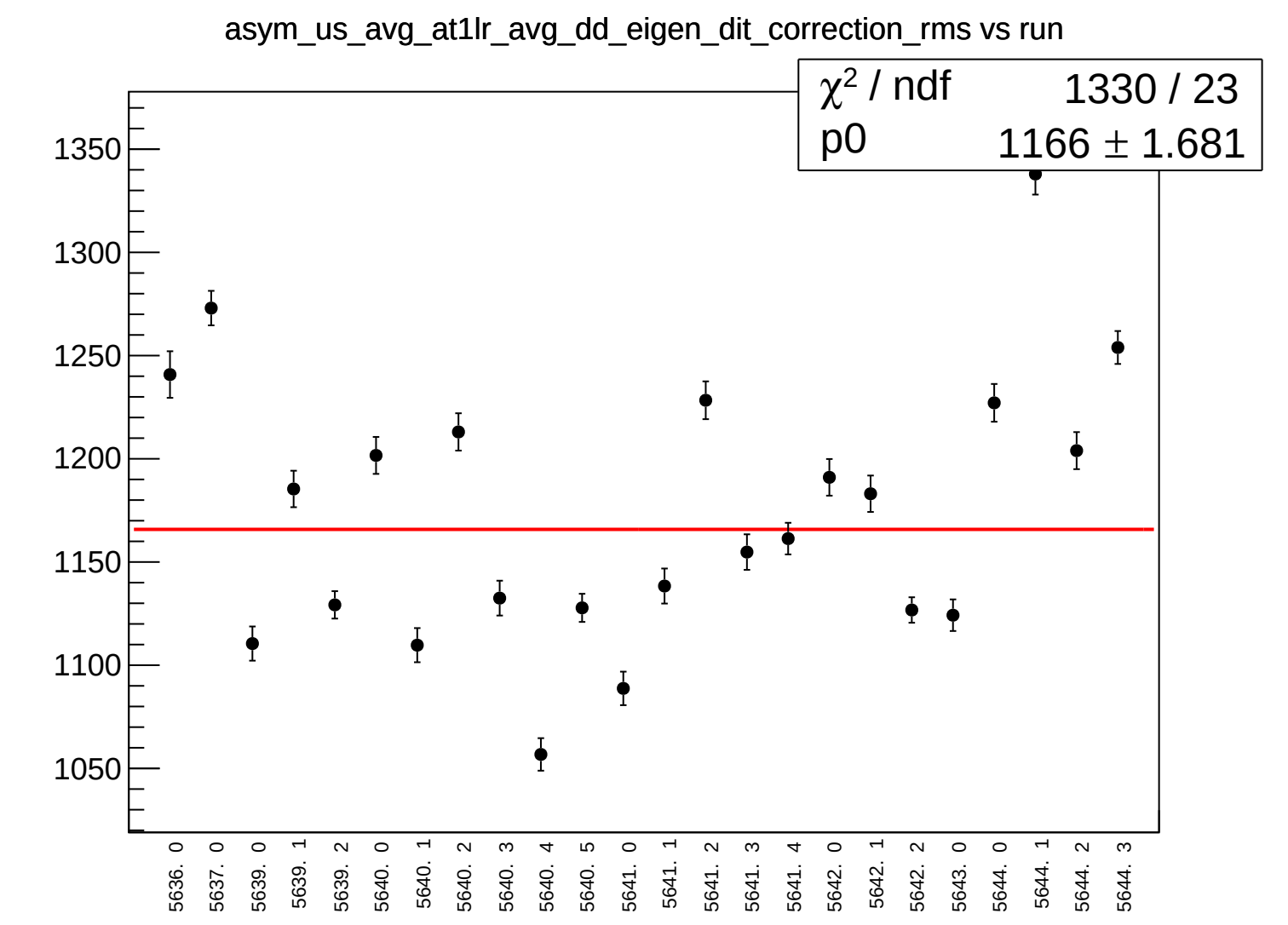
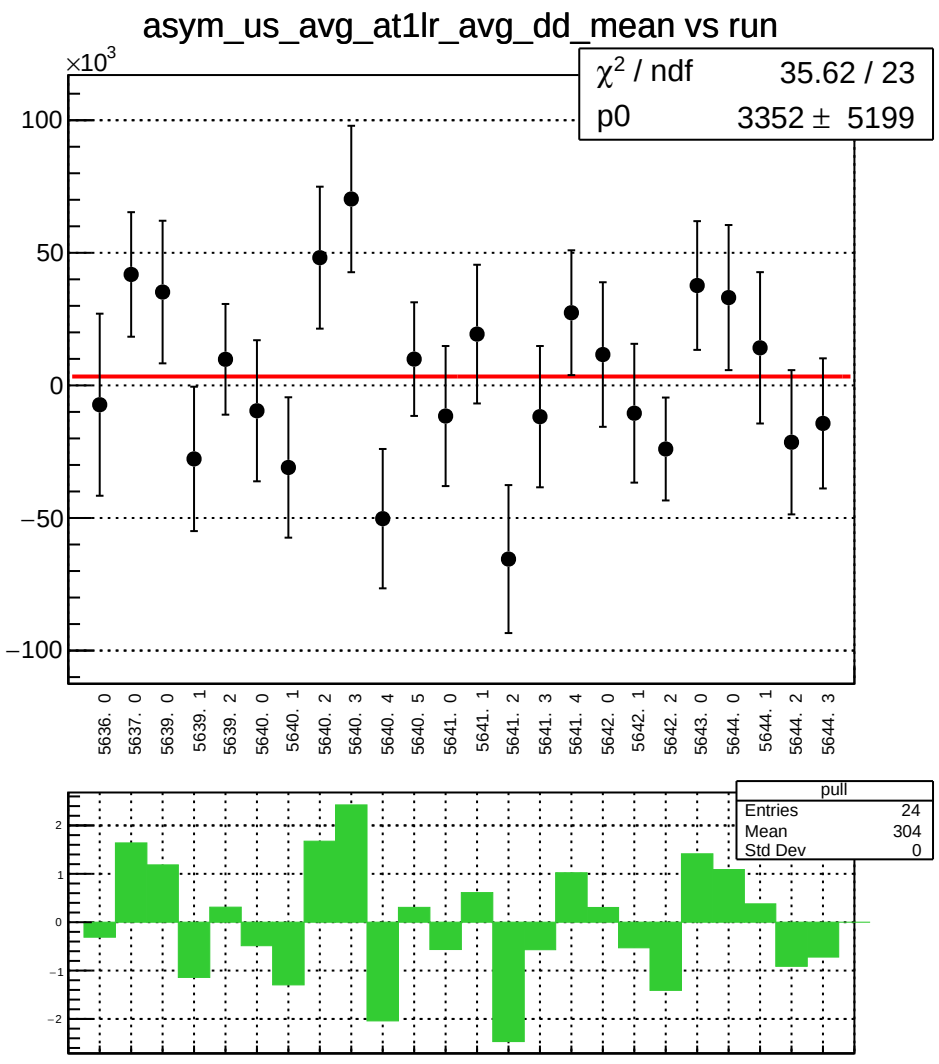
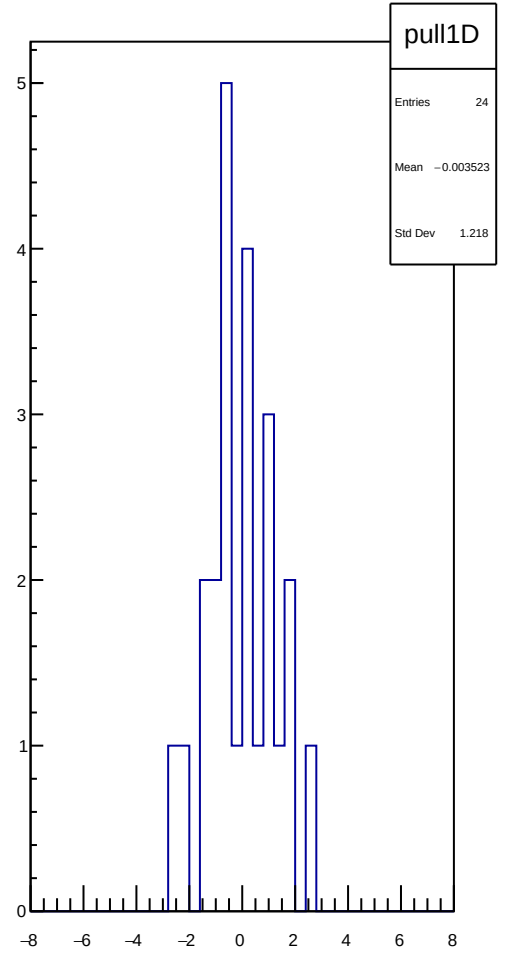
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

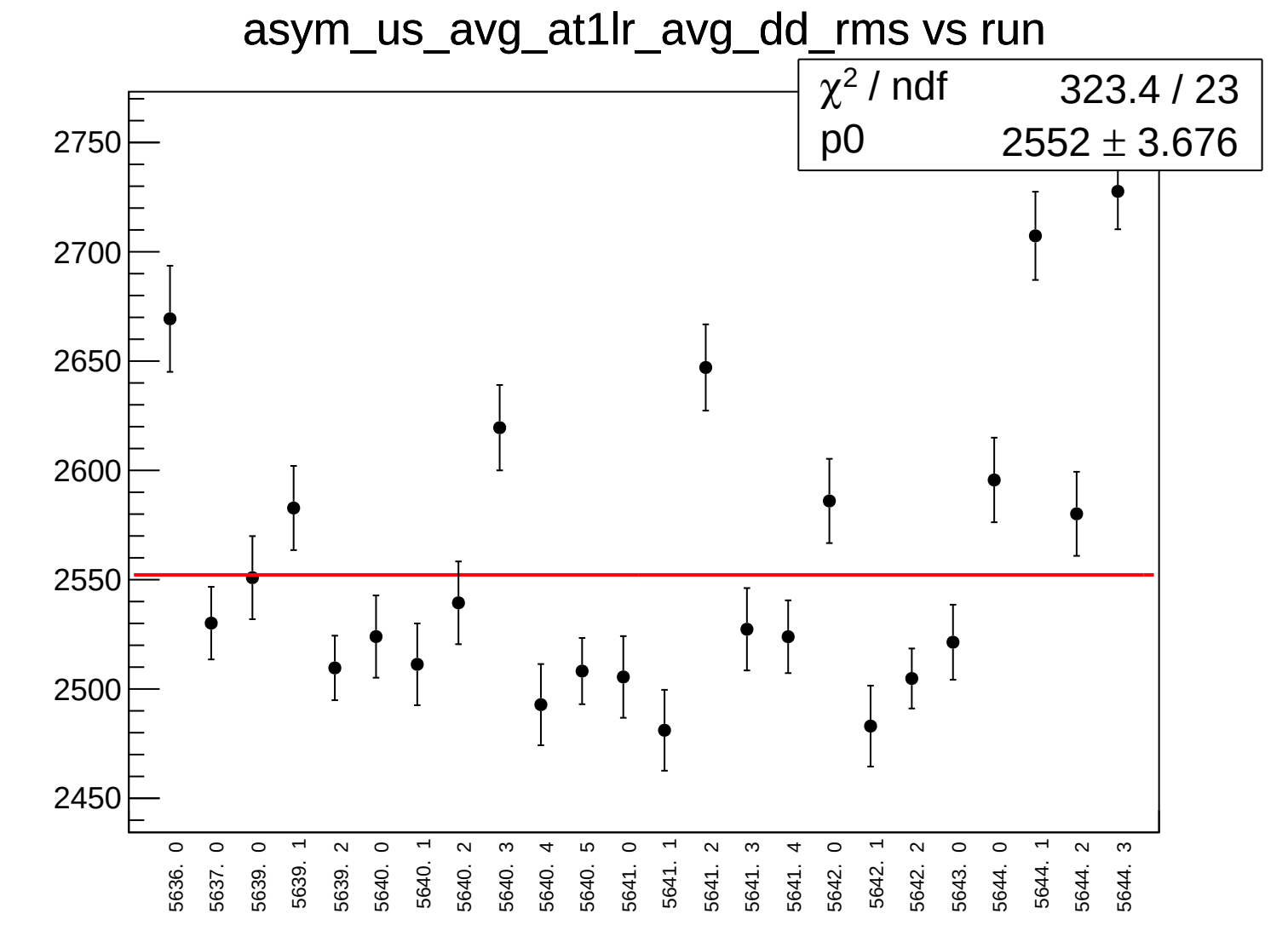

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 22.68 / 23
p0 1289 ± 2377
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −75.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

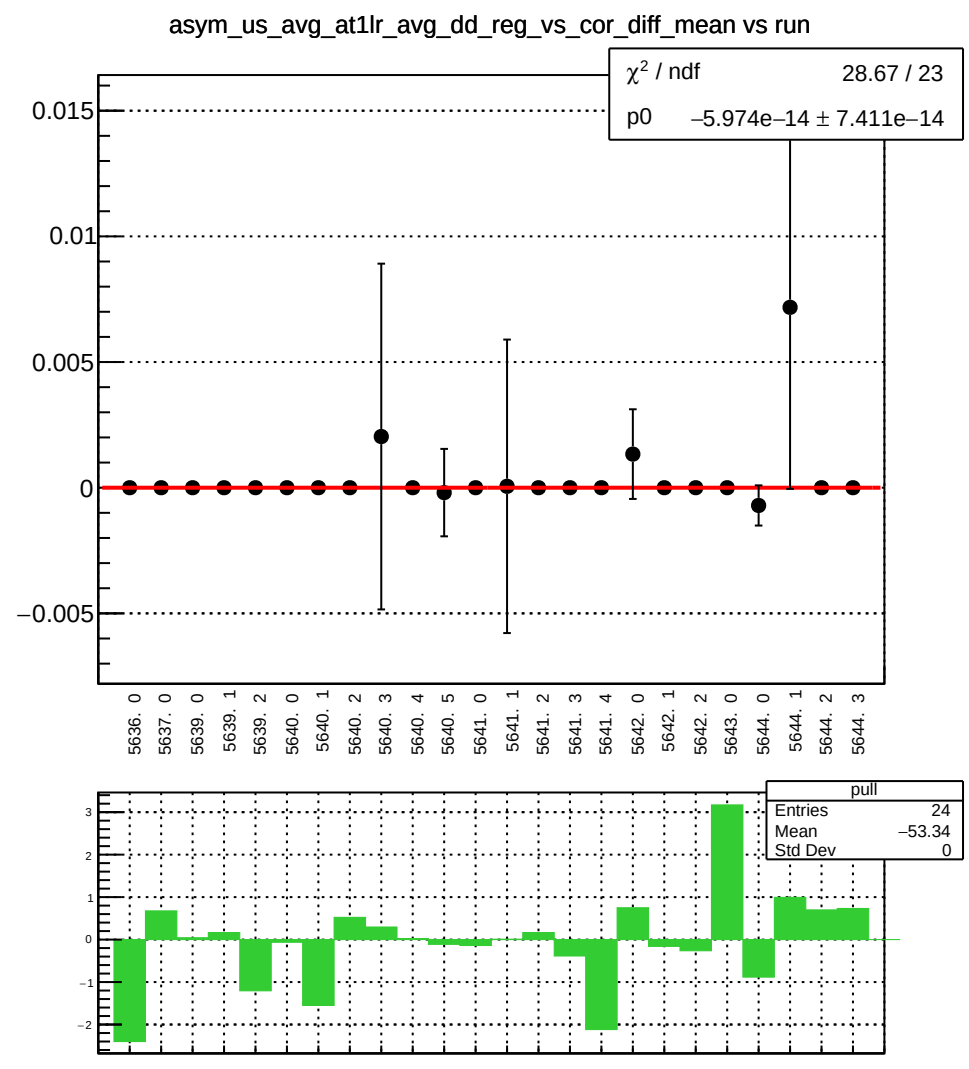

pull1D
Entries 24
Mean 0.02677
Std Dev 0.9717
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

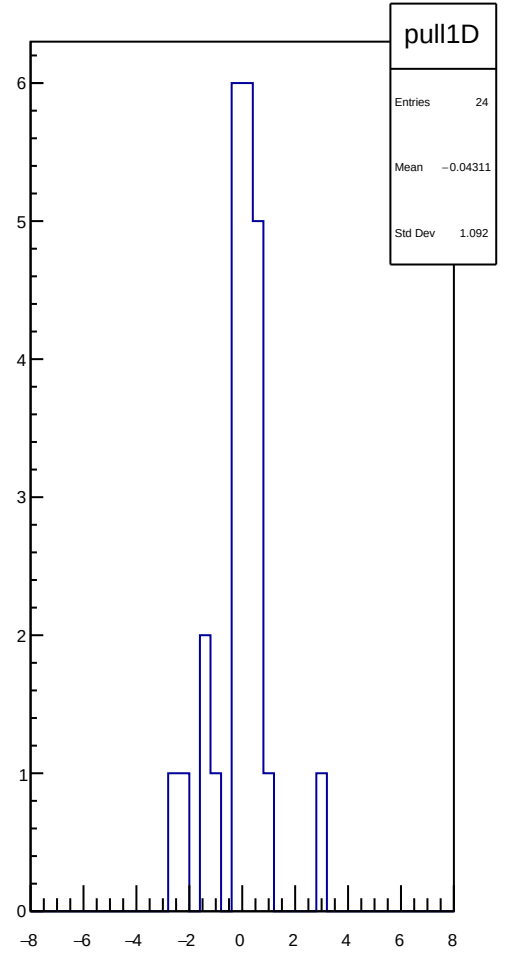

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1330 / 23
p0 1166 ± 1.681
1350
1300
1250
1200
1150
1100
1050
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

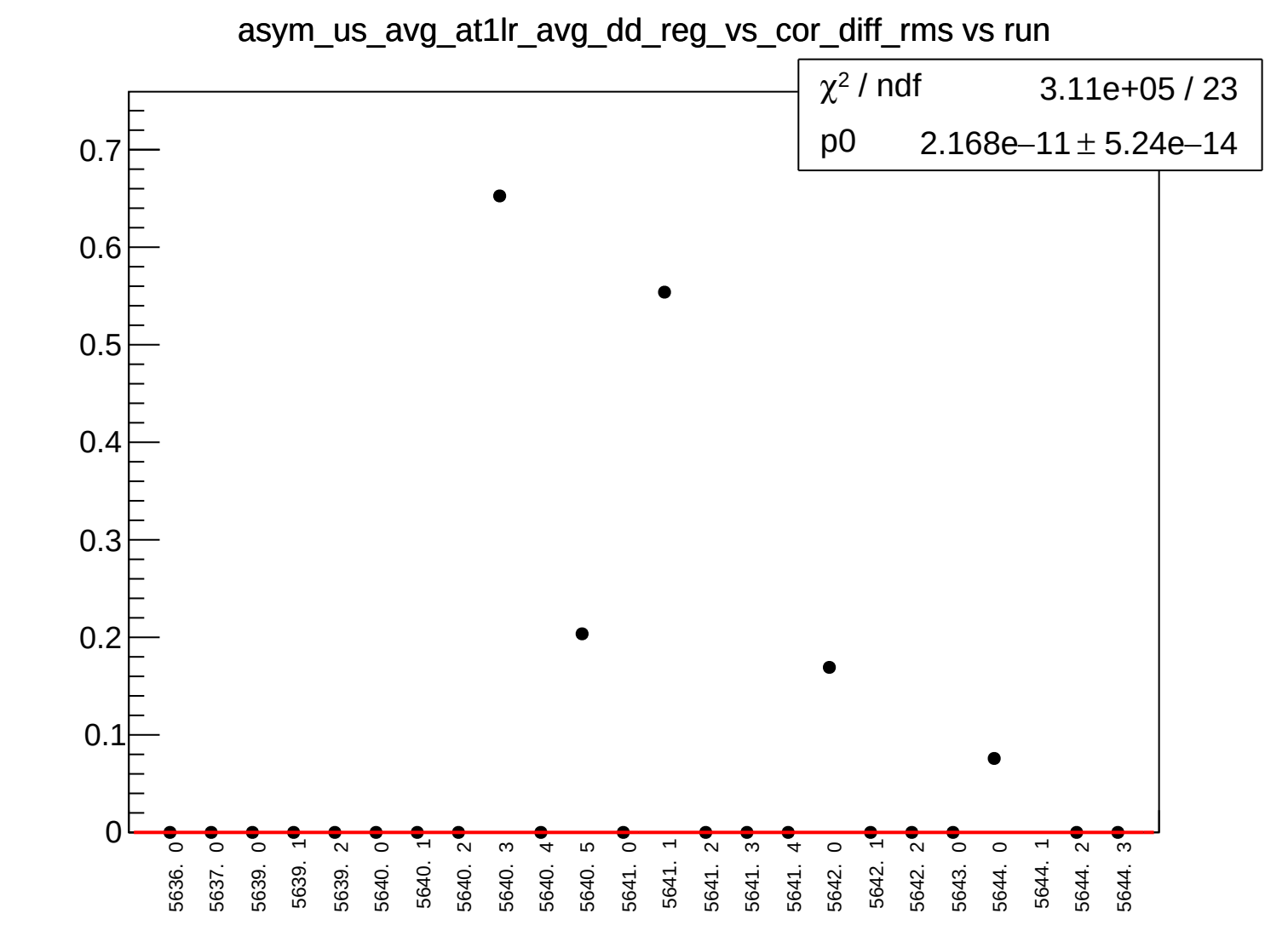

asym_us_avg_at1lr_avg_dd_mean vs run
×10^3
χ^2 / ndf 35.62 / 23
p0 3352 ± 5199
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 304
Std Dev 0
2
1
0
−1
−2

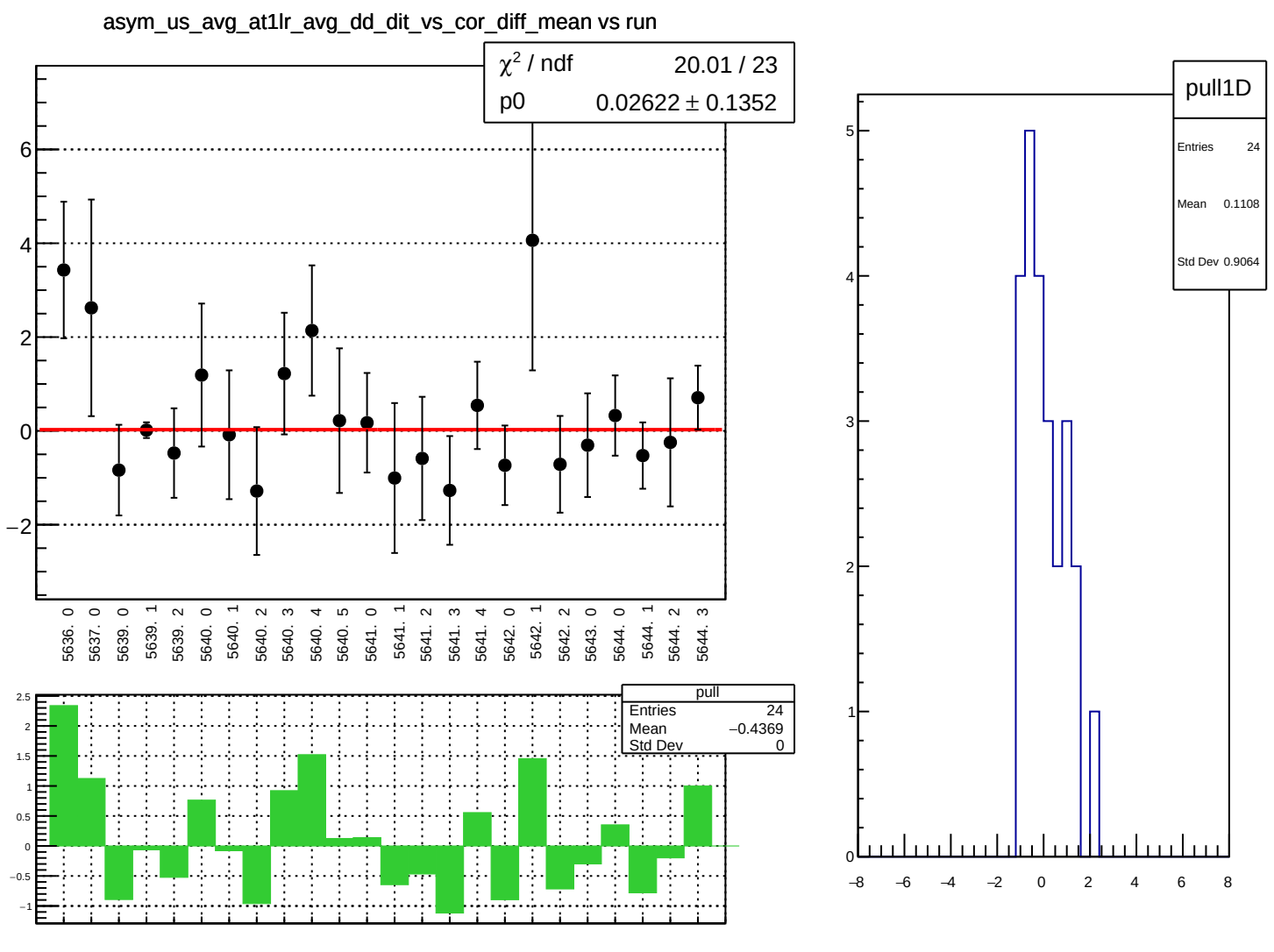

pull1D
Entries 24
Mean −0.003523
Std Dev 1.218
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

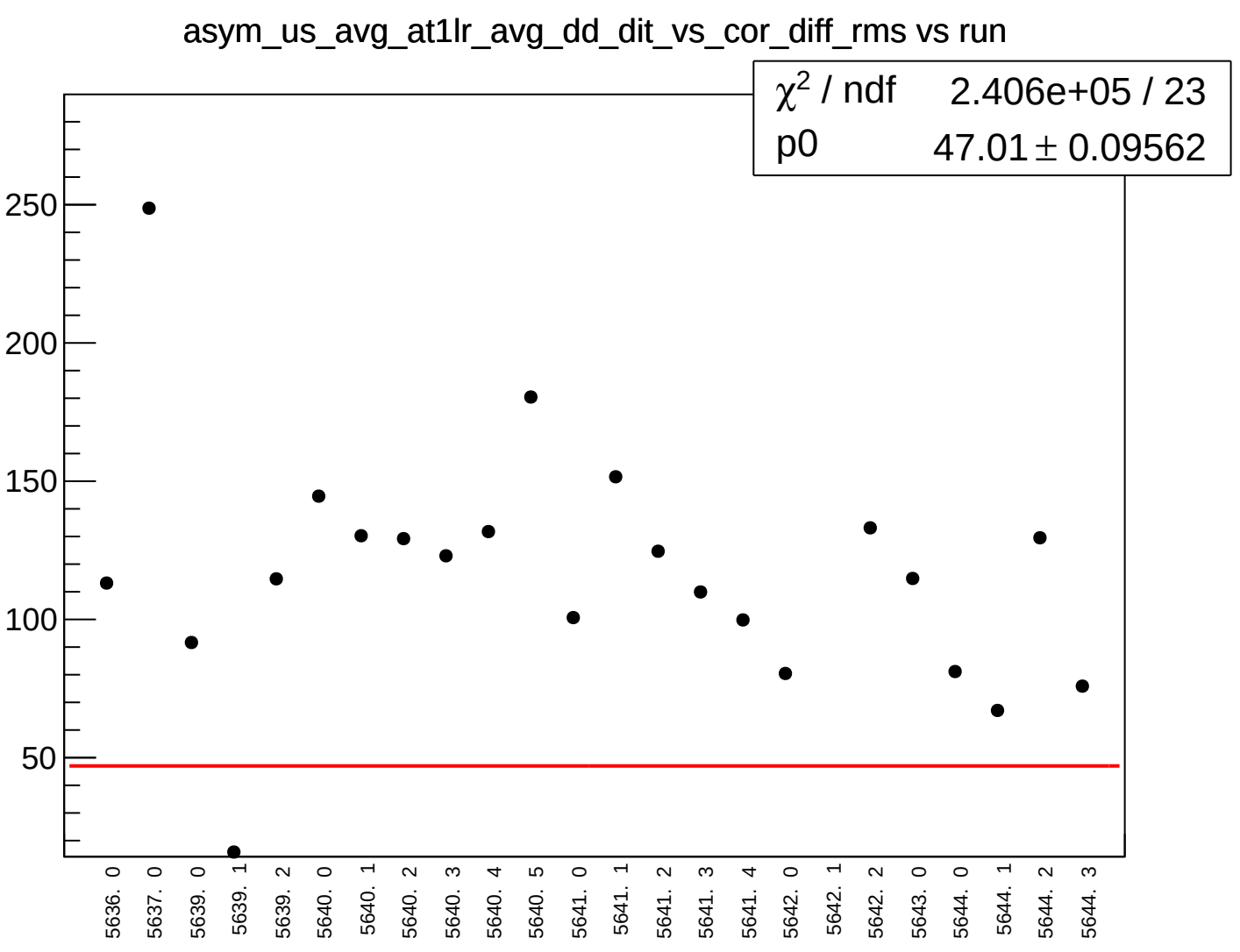

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 323.4 / 23
p0 2552 ± 3.676
2750
2700
2650
2600
2550
2500
2450
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

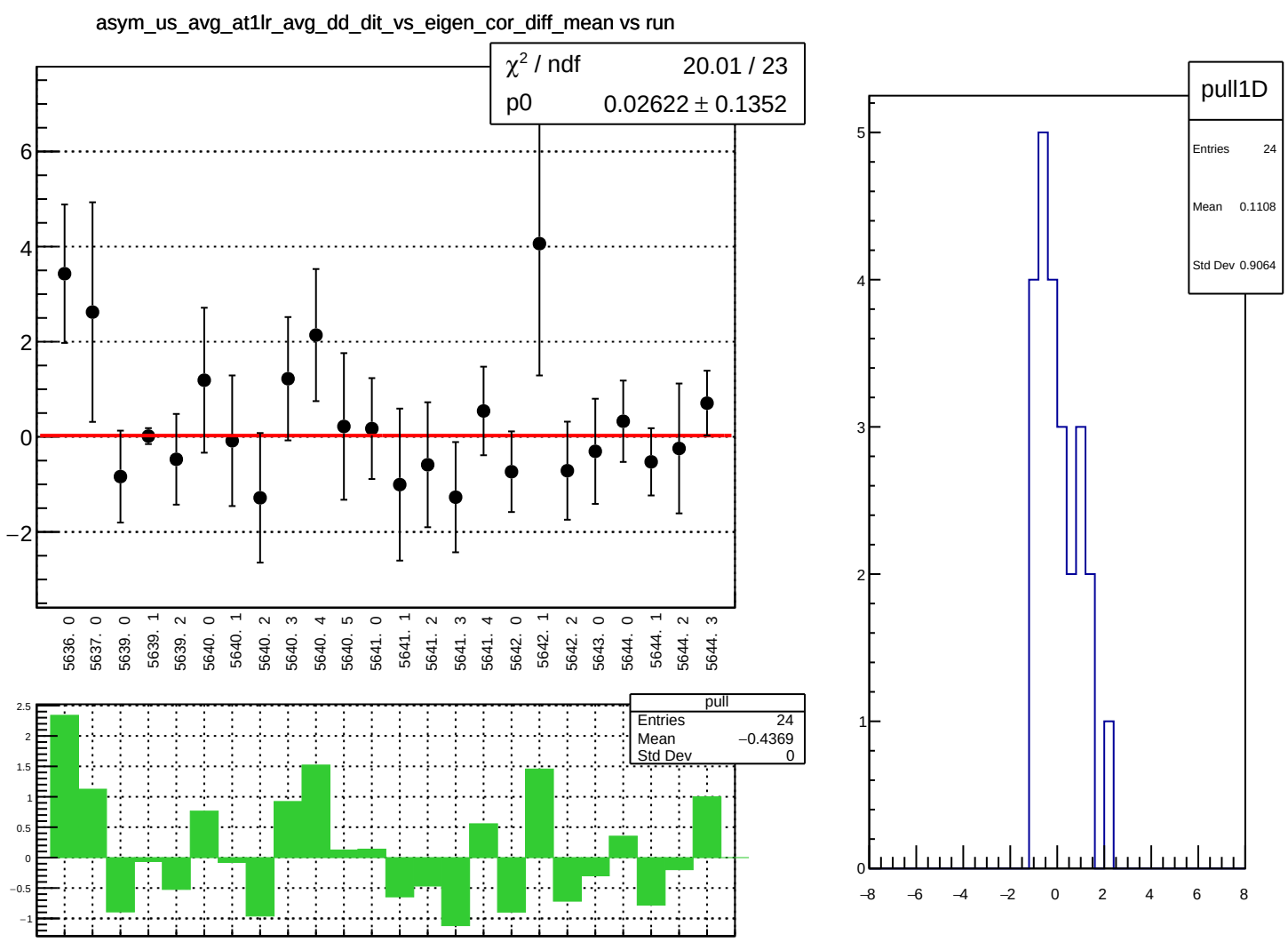

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 28.67 / 23
p0 −5.974e−14 ± 7.411e−14
0.015
0.01
0.005
0
−0.005
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −53.34
Std Dev 0
3
2
1
0
−1
−2

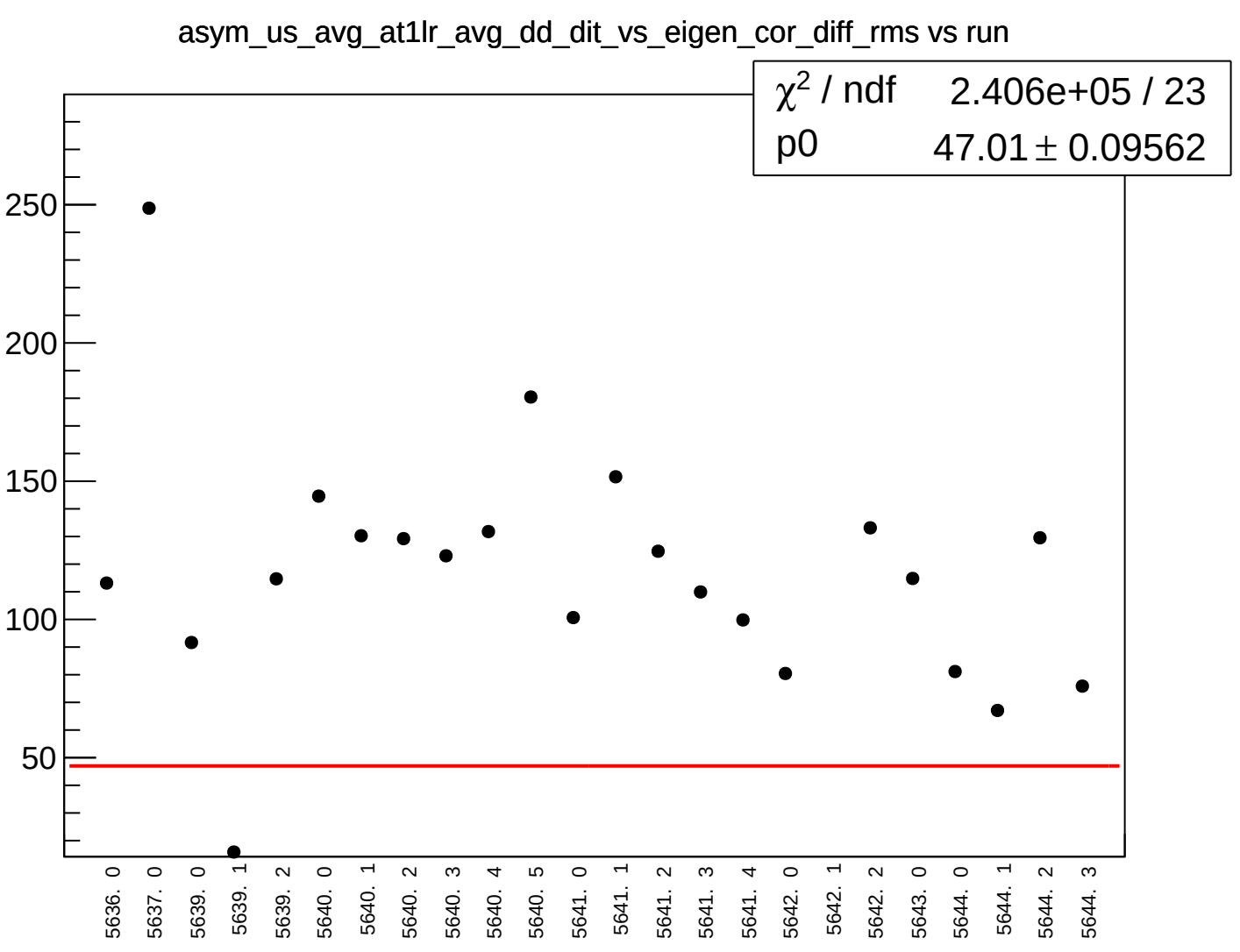

pull1D
Entries 24
Mean −0.04311
Std Dev 1.092
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

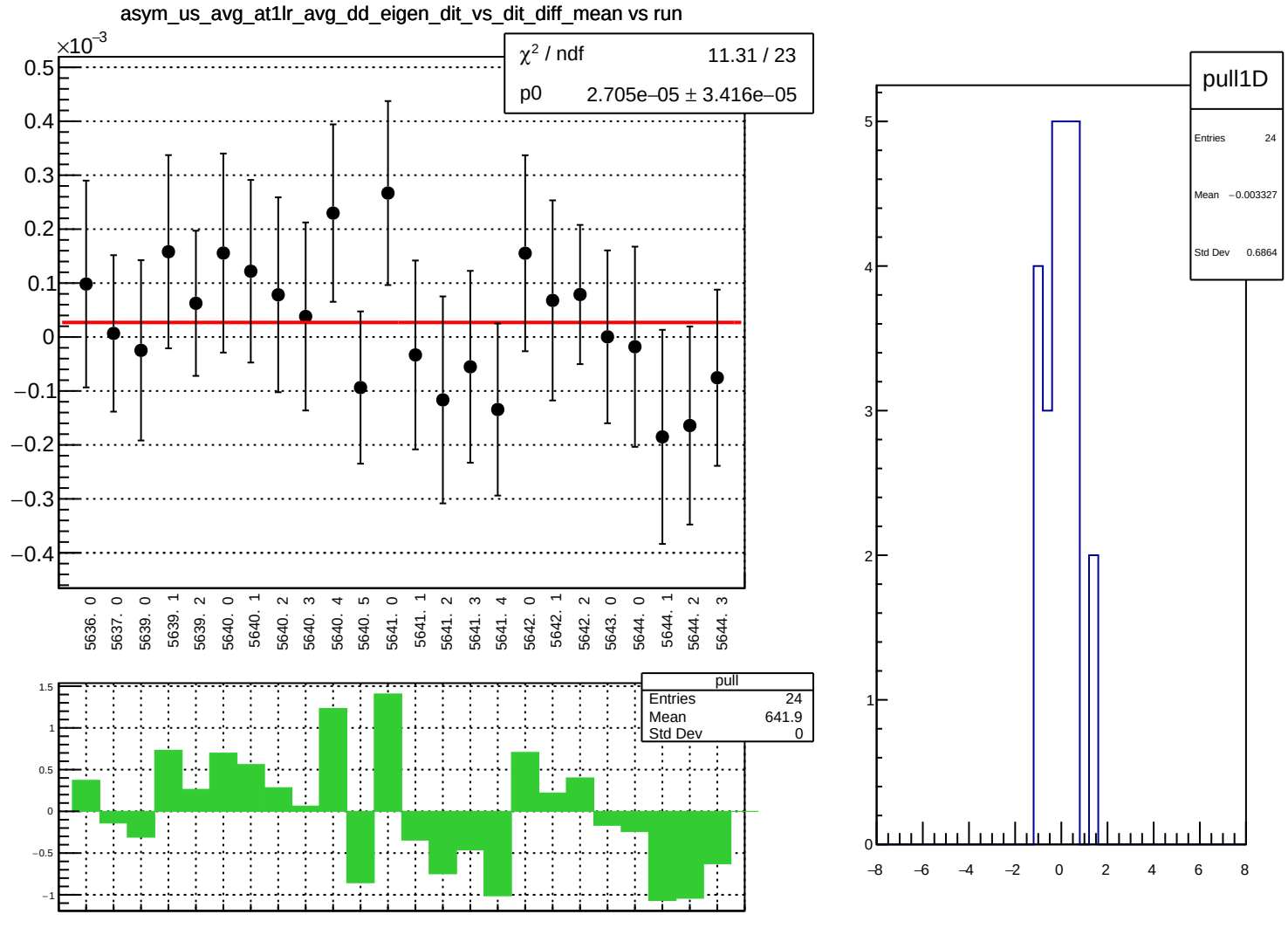

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.11e+05 / 23
p0 2.168e−11 ± 5.24e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

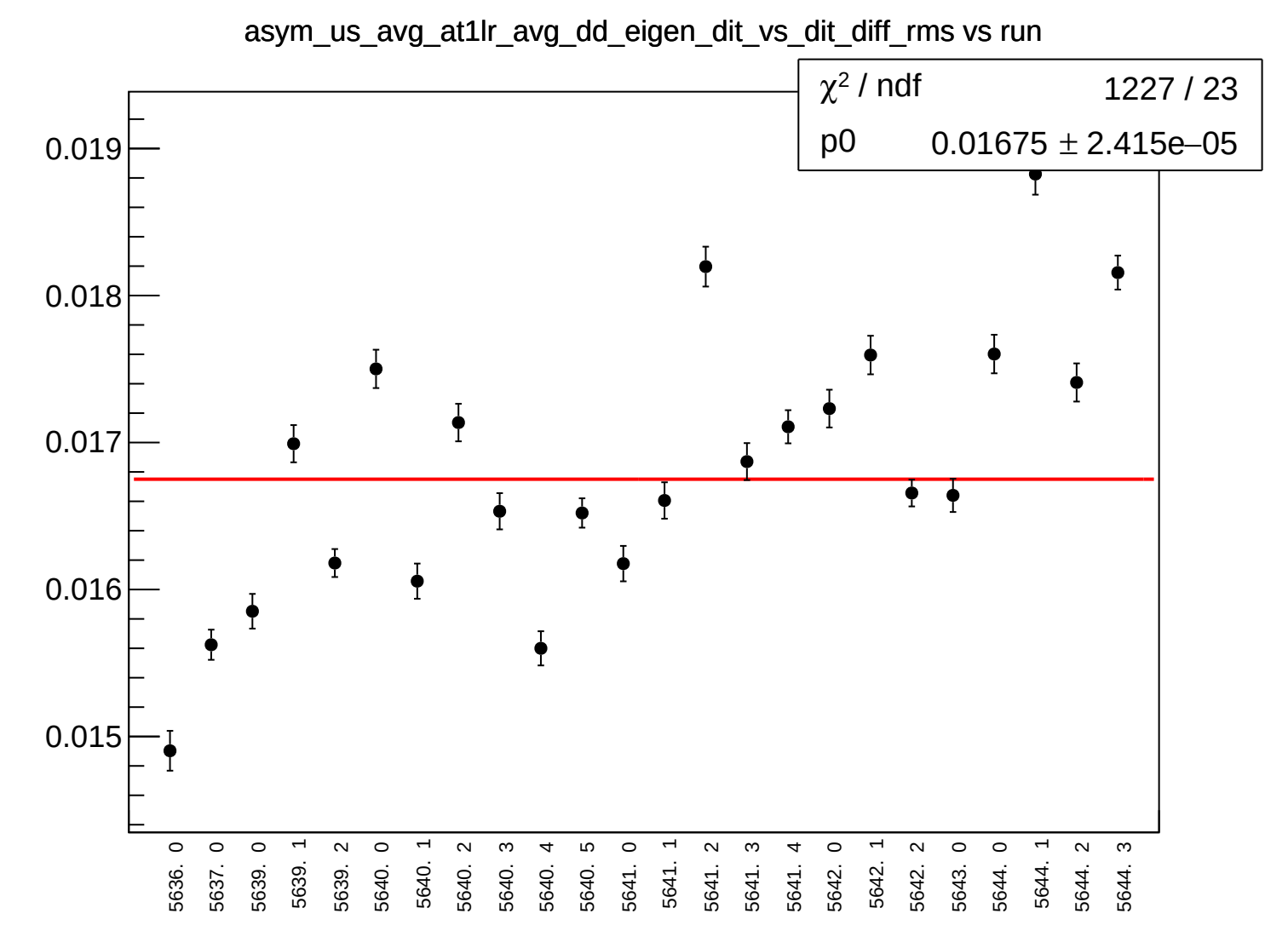

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 20.01 / 23
p0 0.02622 ± 0.1352
6
4
2
0
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −0.4369
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.1108
Std Dev 0.9064
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

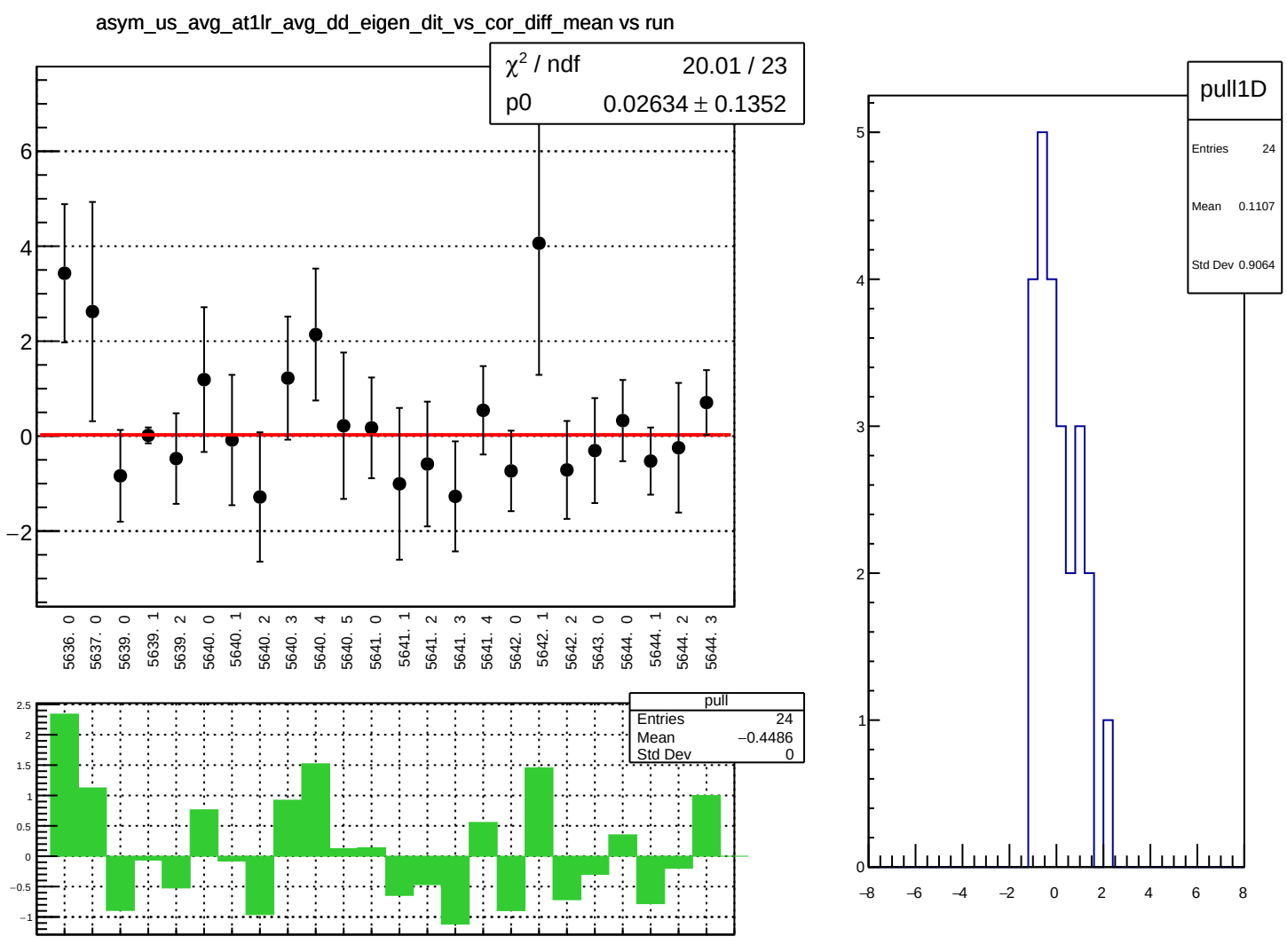

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.406e+05 / 23
p0 47.01 ± 0.09562
250
200
150
100
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

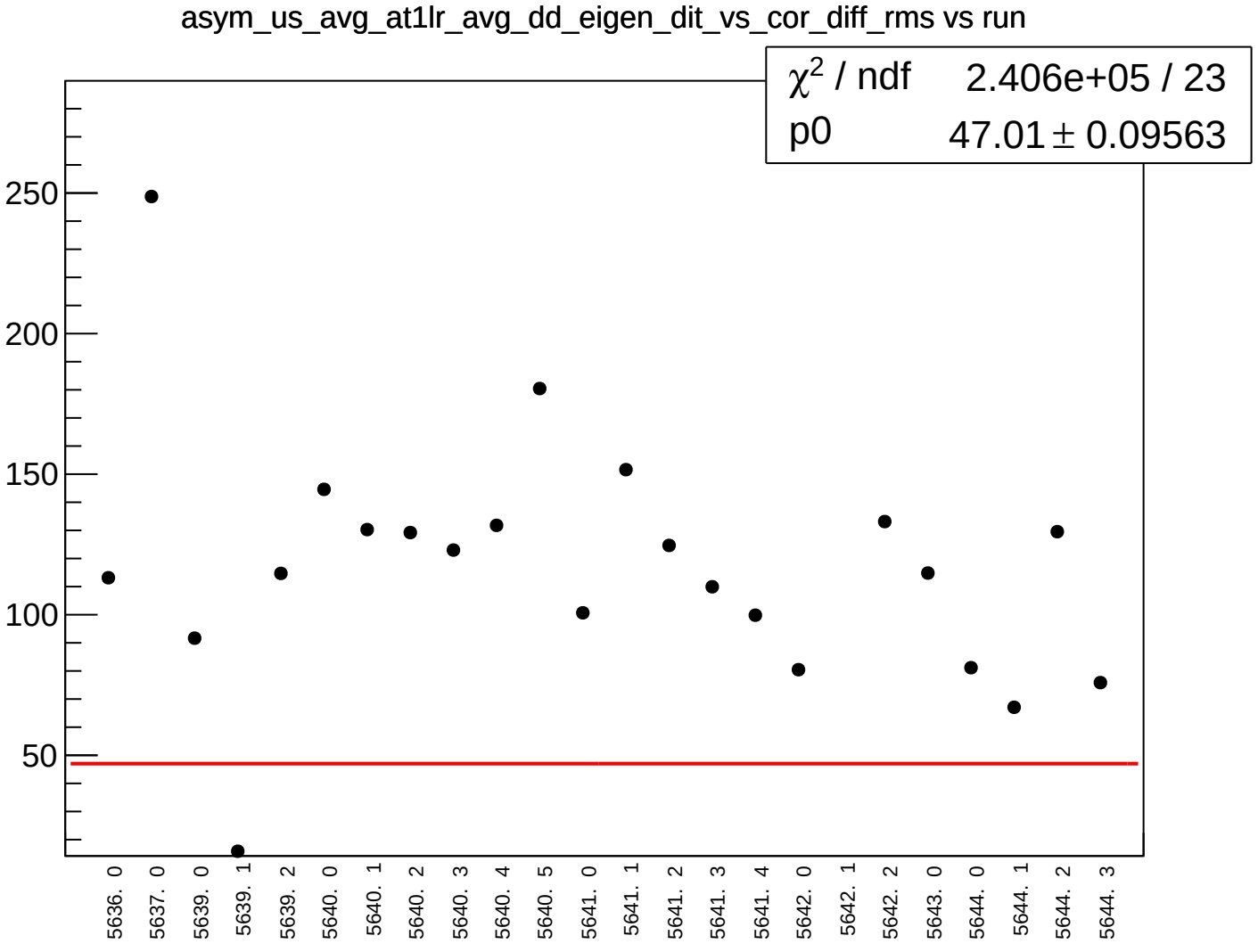

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 20.01 / 23
p0 0.02622 ± 0.1352
6
4
2
0
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −0.4369
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.1108
Std Dev 0.9064
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.406e+05 / 23
p0 47.01 ± 0.09562
250
200
150
100
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

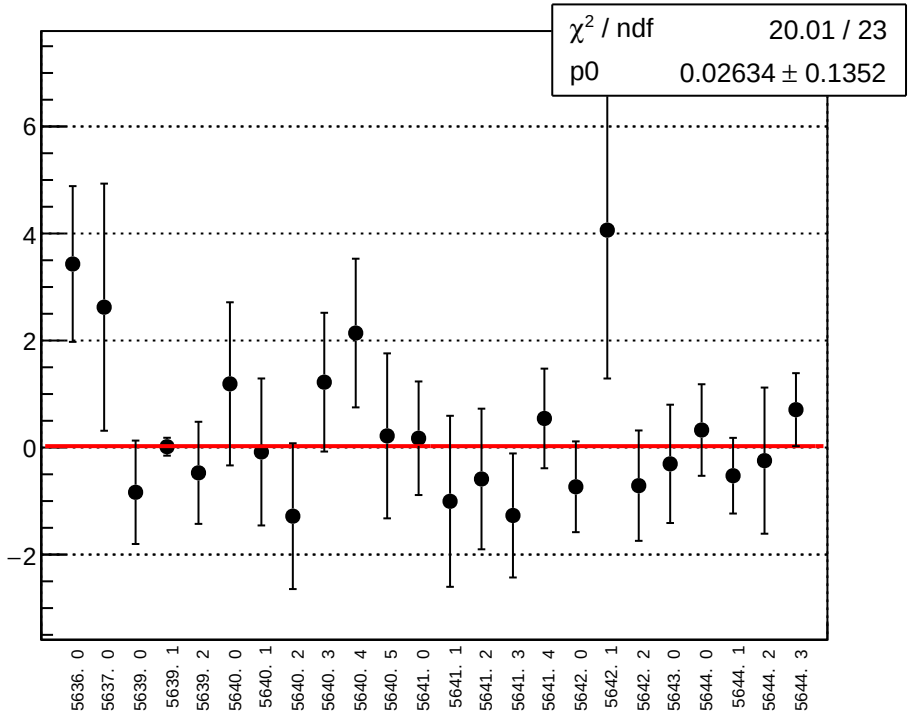

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 11.31 / 23
p0 2.705e−05 ± 3.416e−05
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 641.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.003327
Std Dev 0.6864
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

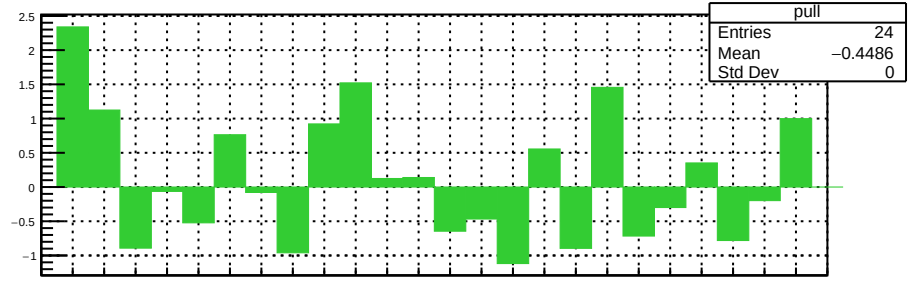

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1227 / 23
p0 0.01675 ± 2.415e−05
0.019
0.018
0.017
0.016
0.015
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

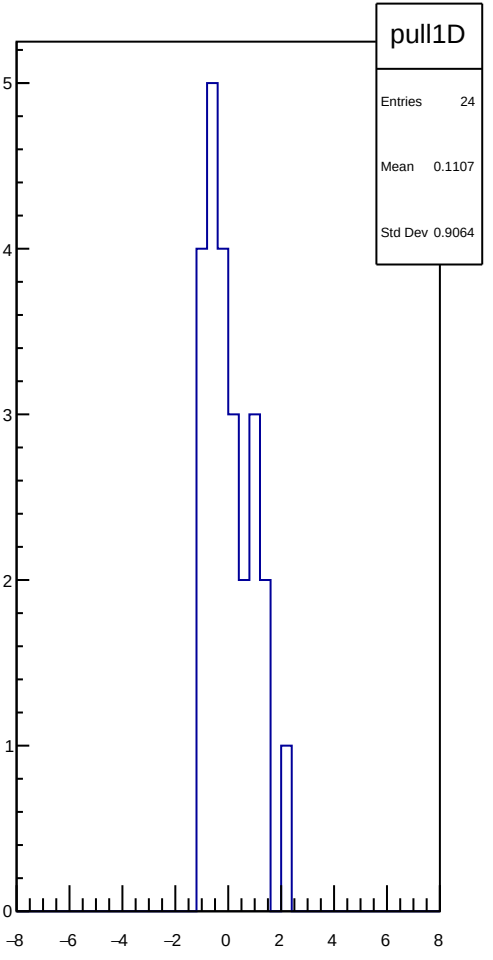

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 20.01 / 23
p0 0.02634 ± 0.1352
6
4
2
0
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −0.4486
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.1107
Std Dev 0.9064
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

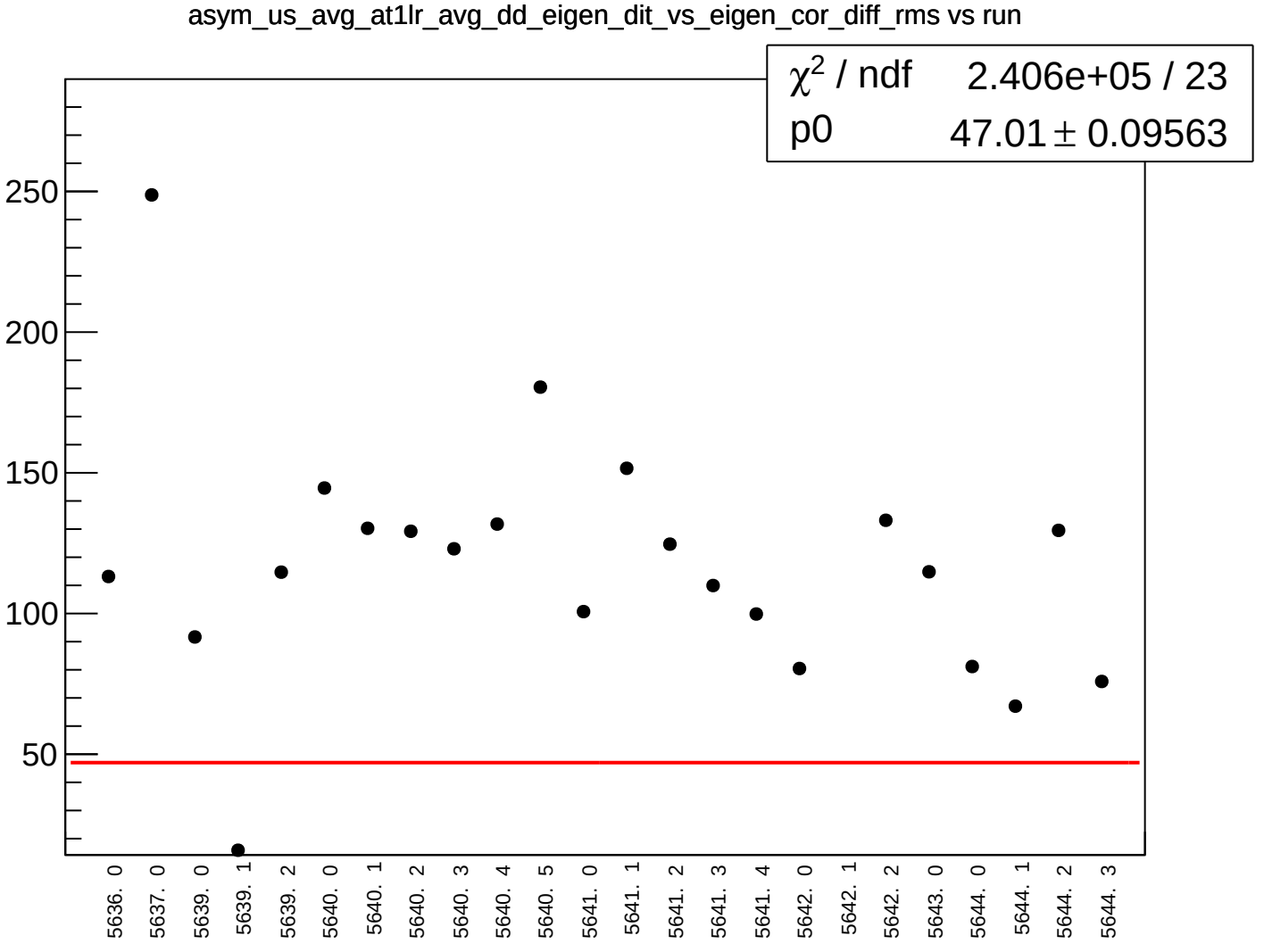

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.406e+05 / 23
p0 47.01 ± 0.09563
250
200
150
100
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

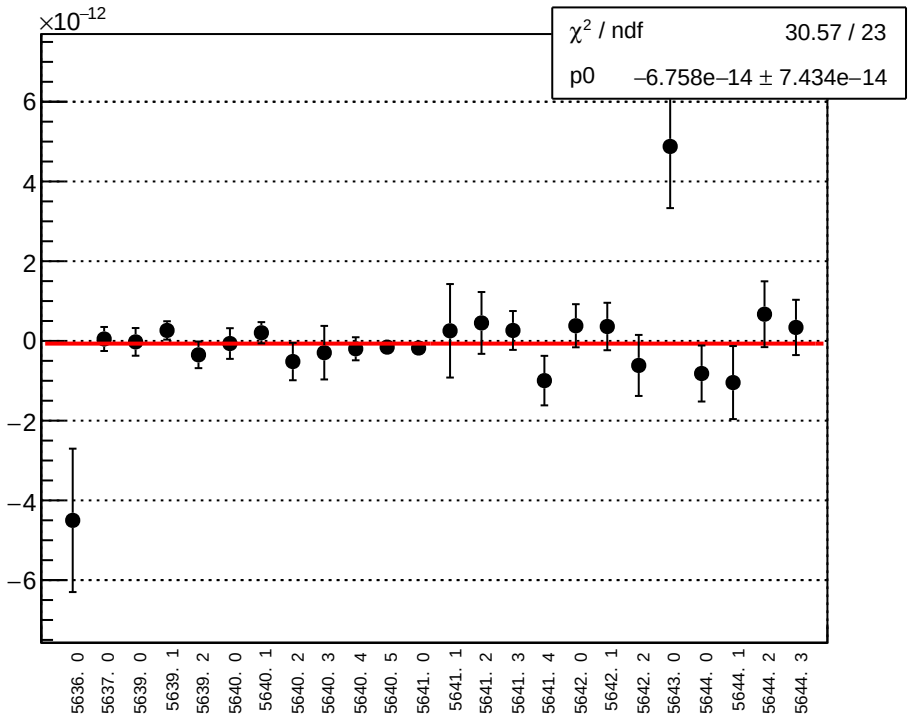
asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

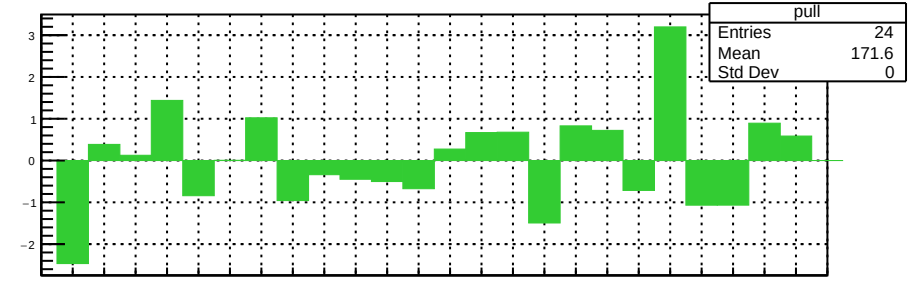


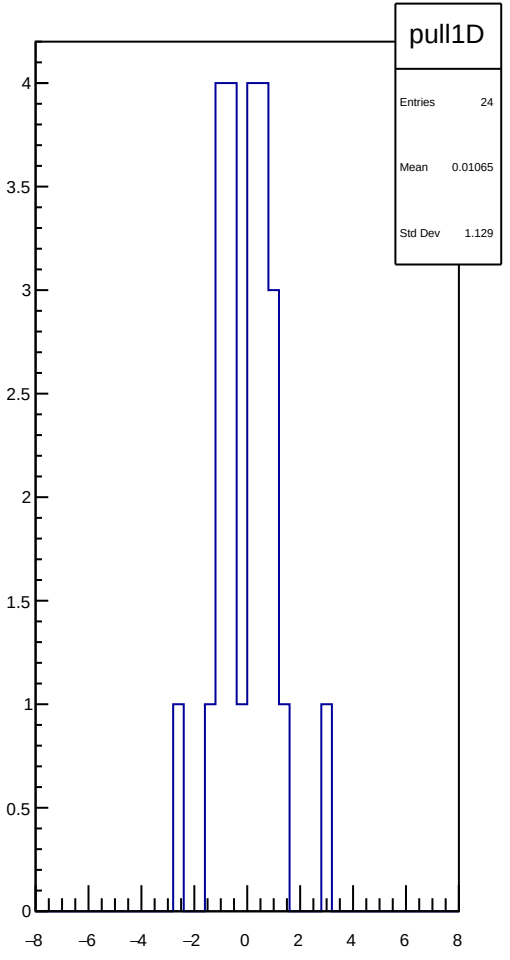


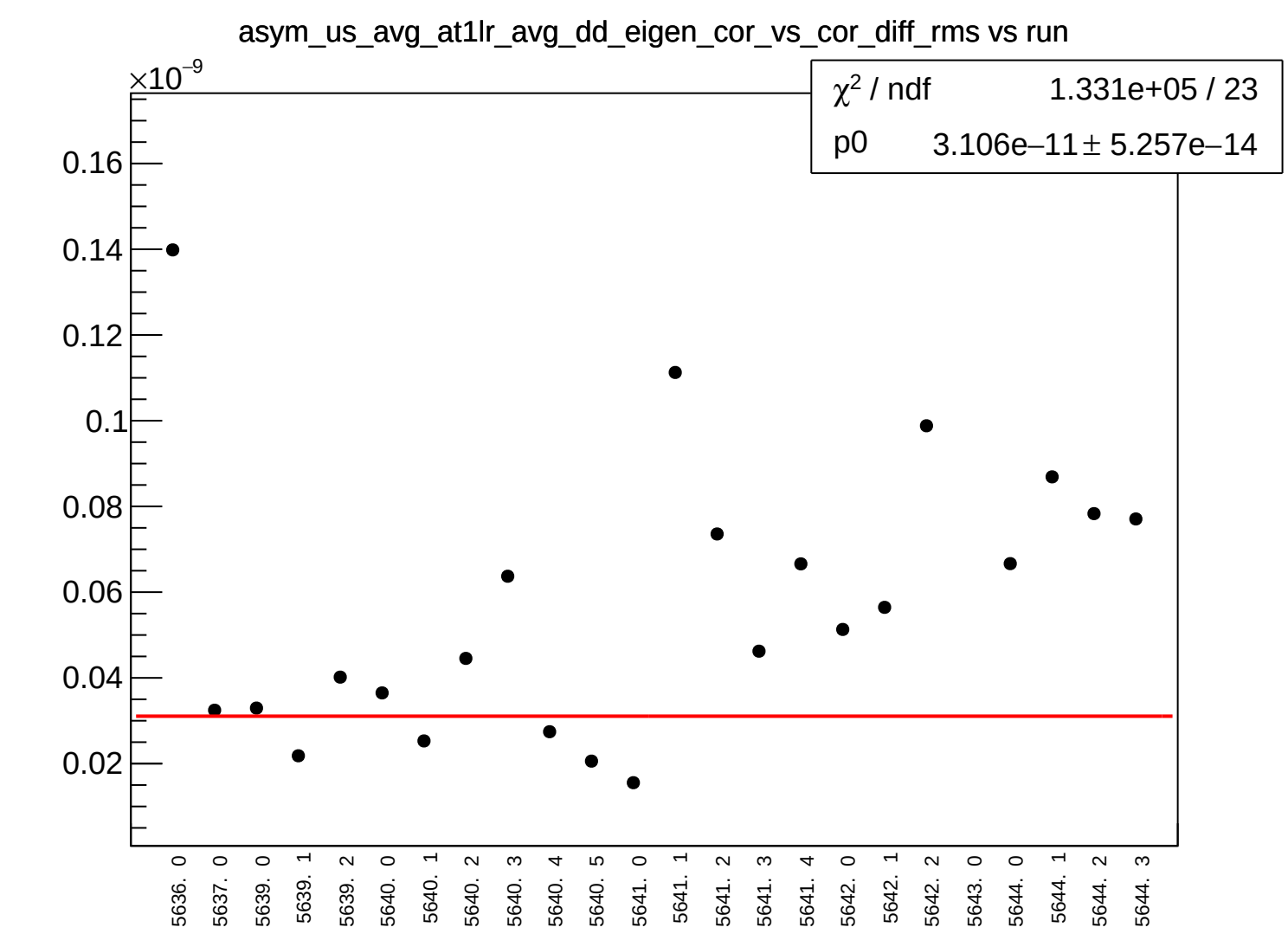


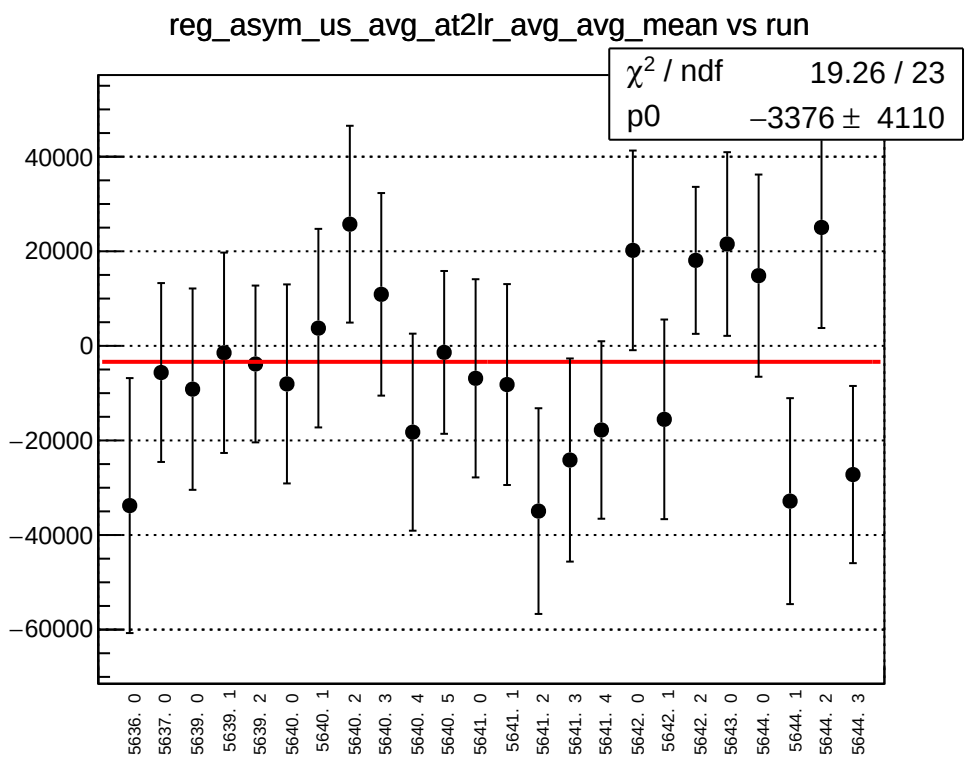

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.406e+05 / 23
p0 47.01 ± 0.09563
250
200
150
100
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

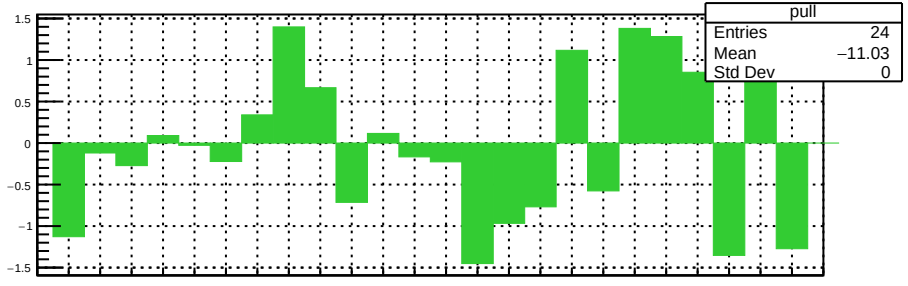

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 30.57 / 23
p0 −6.758e−14 ± 7.434e−14
6
4
2
0
−2
−4
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

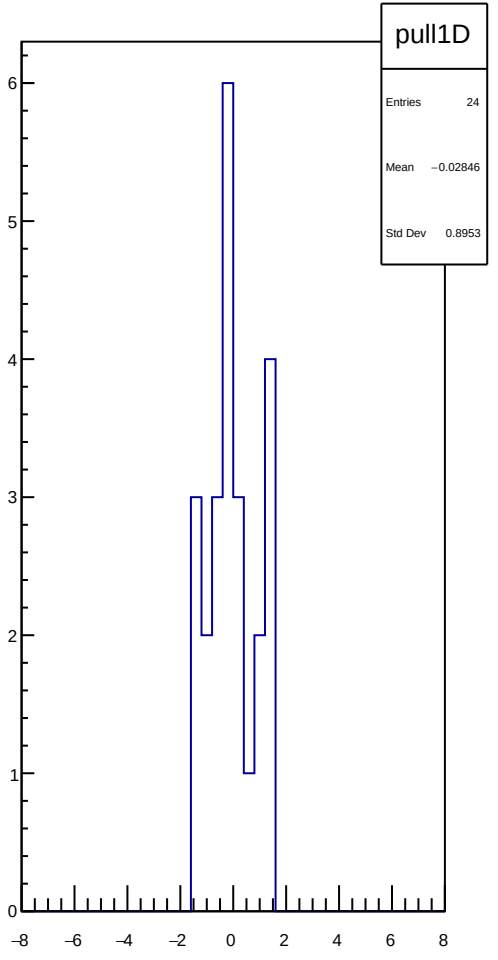

pull
Entries 24
Mean 171.6
Std Dev 0
3
2
1
0
−1
−2

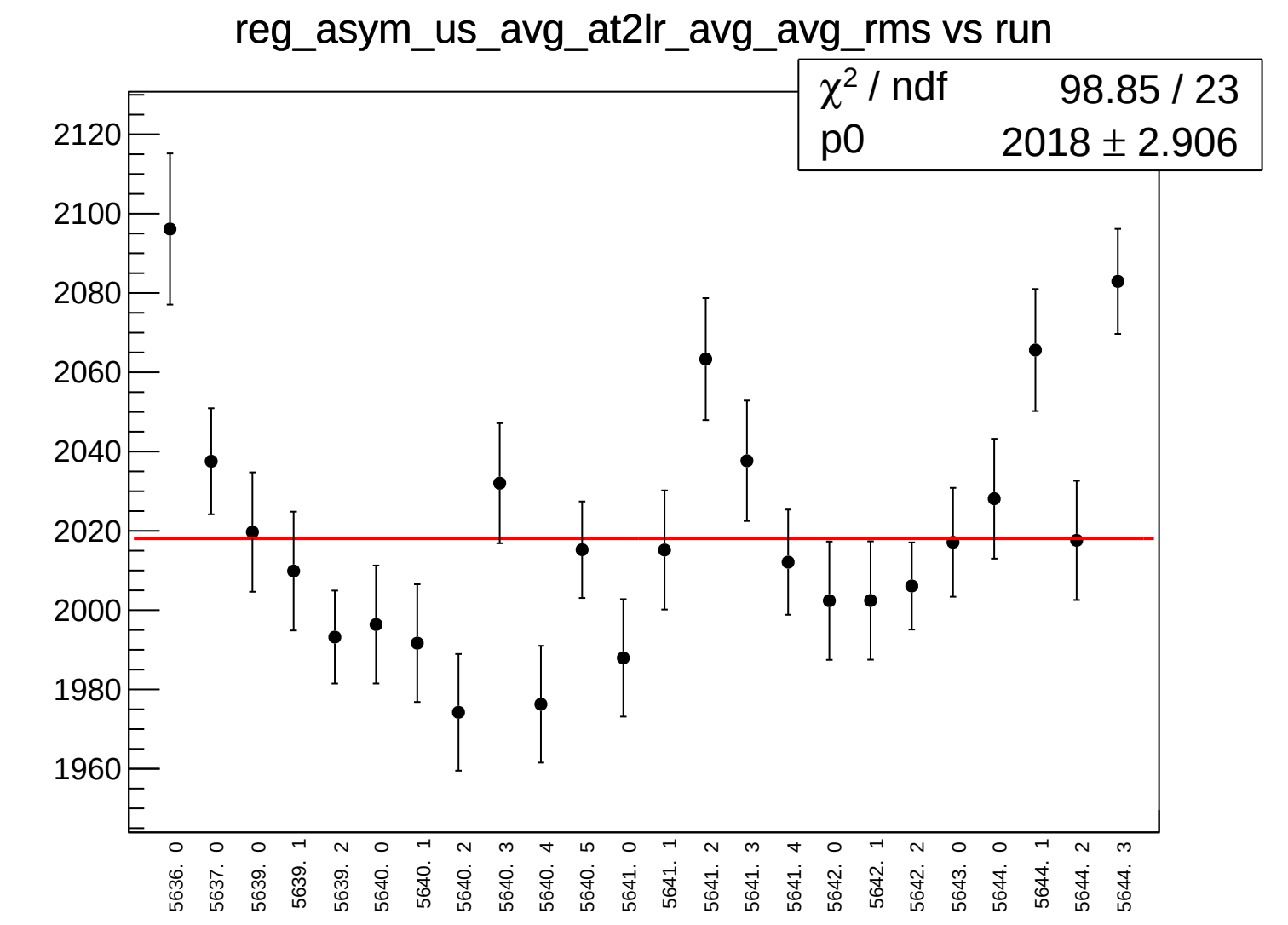

pull1D
Entries 24
Mean 0.01065
Std Dev 1.129
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

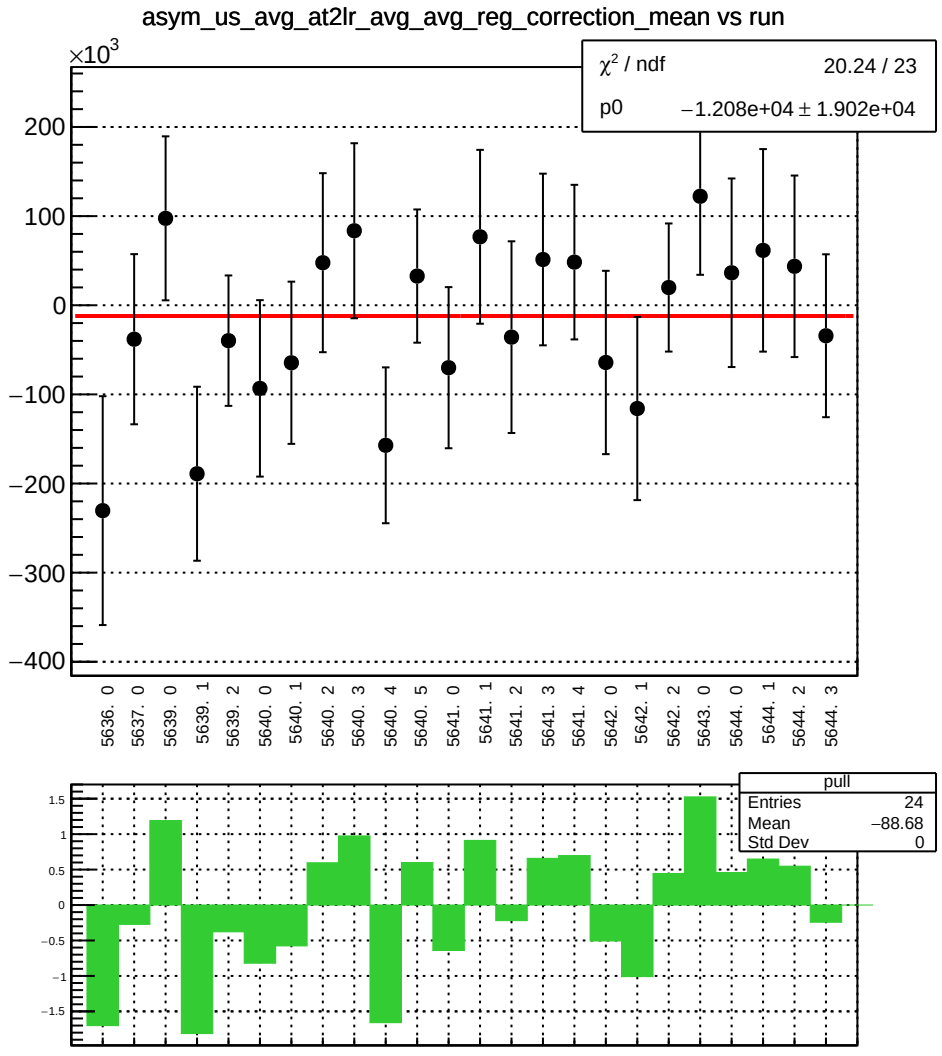

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.331e+05 / 23
p0 3.106e−11 ± 5.257e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

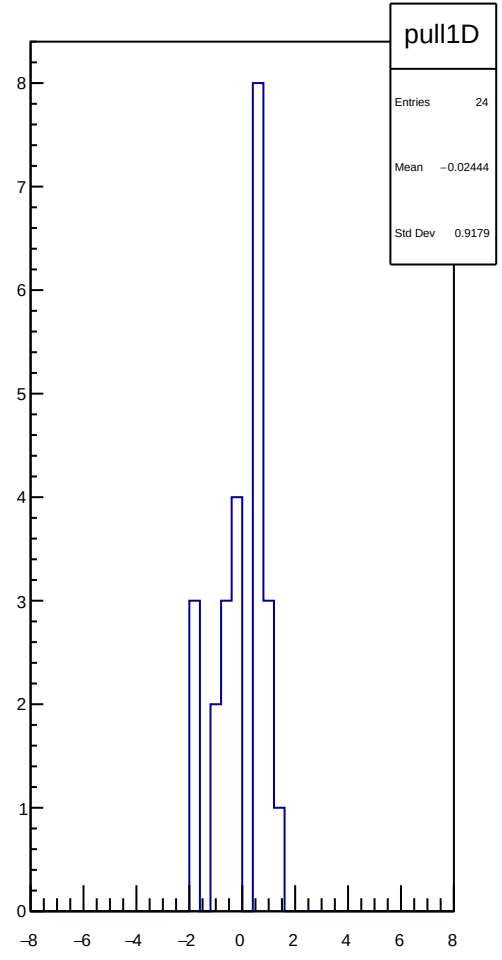

reg_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 19.26 / 23
p0 −3376 ± 4110
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

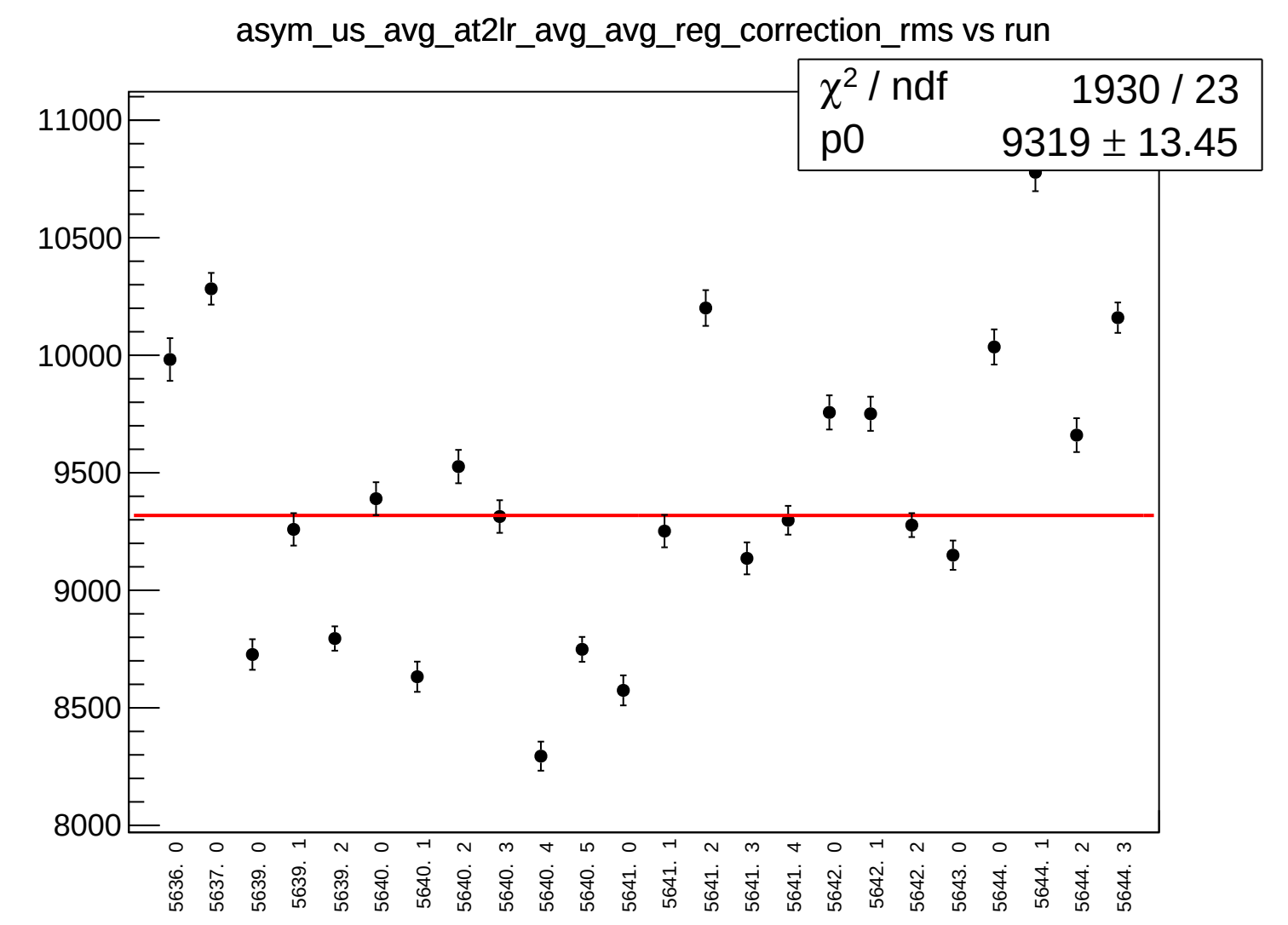

pull
Entries 24
Mean −11.03
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

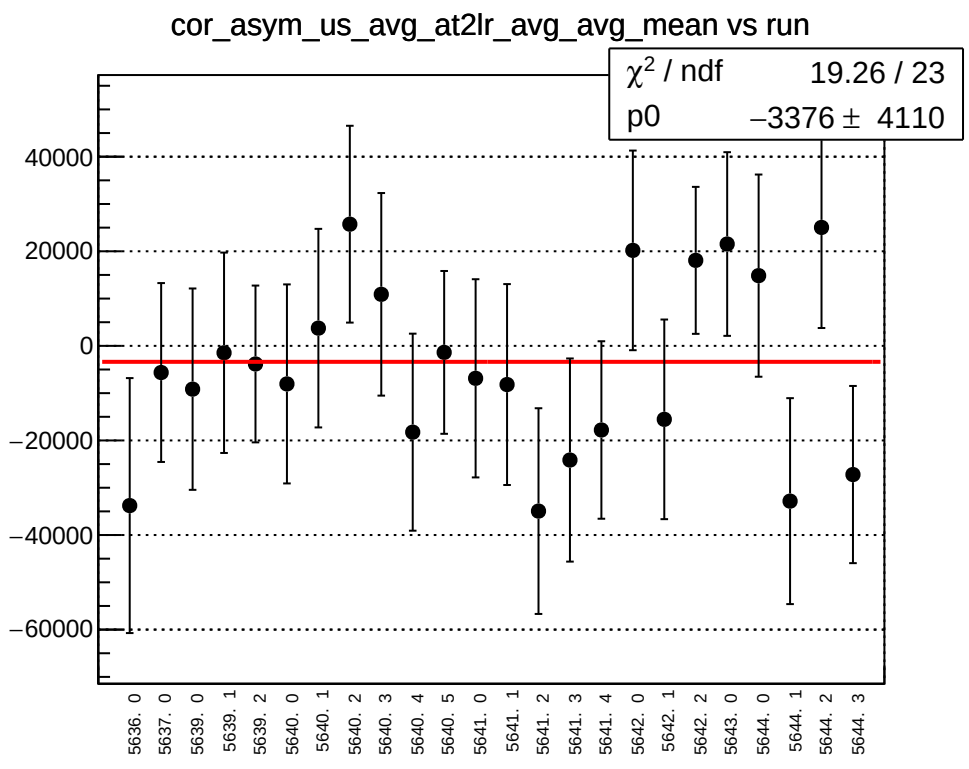

pull1D
Entries 24
Mean −0.02846
Std Dev 0.8953
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

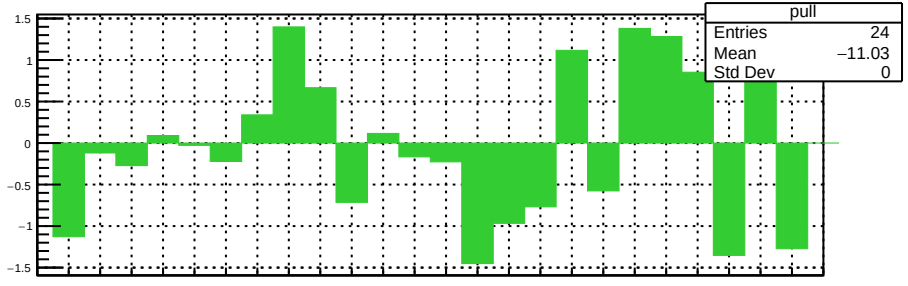

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 98.85 / 23
p0 2018 ± 2.906
2120
2100
2080
2060
2040
2020
2000
1980
1960
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

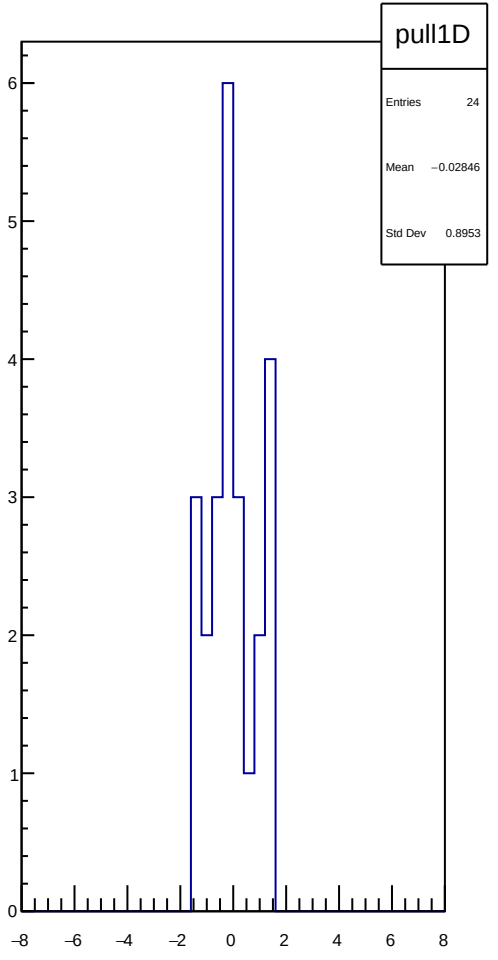

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 20.24 / 23
p0 −1.208e+04 ± 1.902e+04
200
100
0
−100
−200
−300
−400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −88.68
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

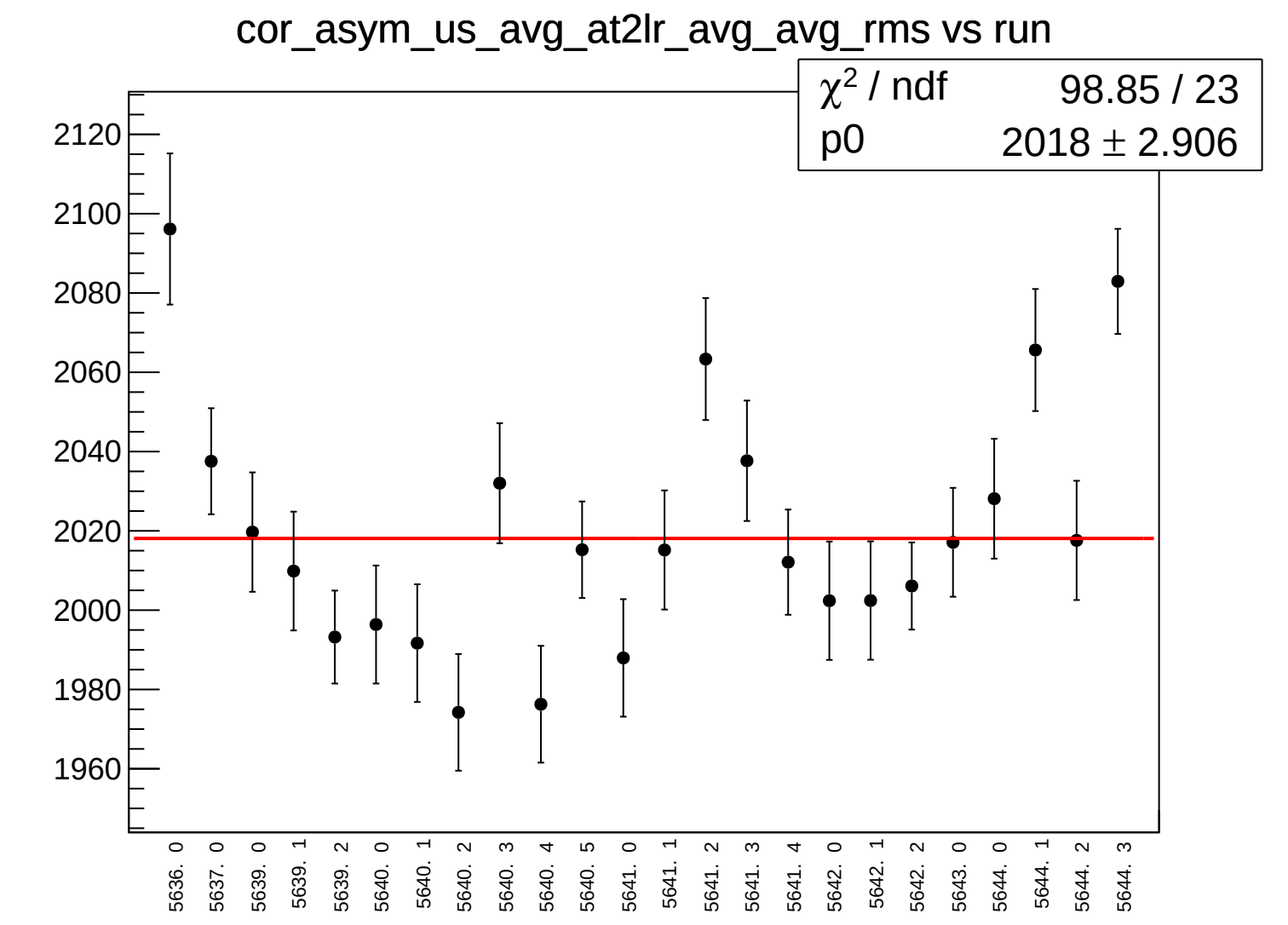

pull1D
Entries 24
Mean −0.02444
Std Dev 0.9179
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

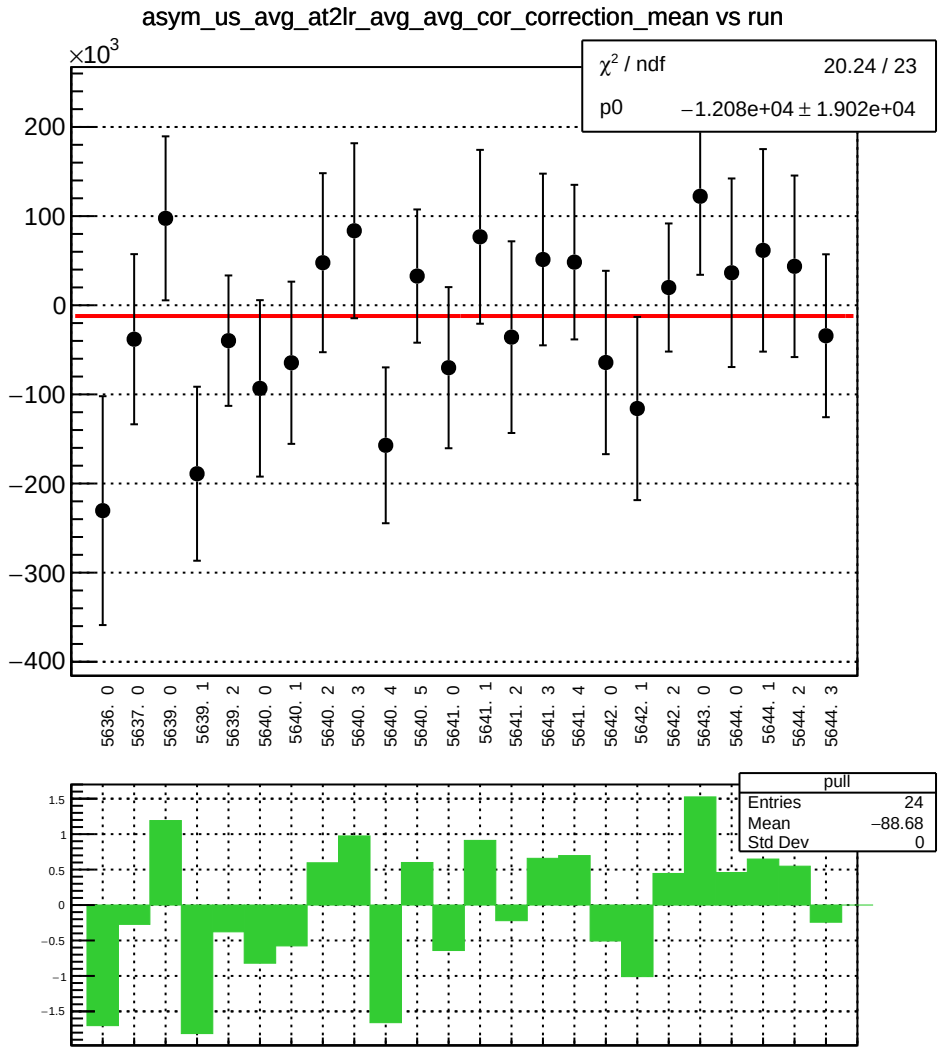

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1930 / 23
p0 9319 ± 13.45
11000
10500
10000
9500
9000
8500
8000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

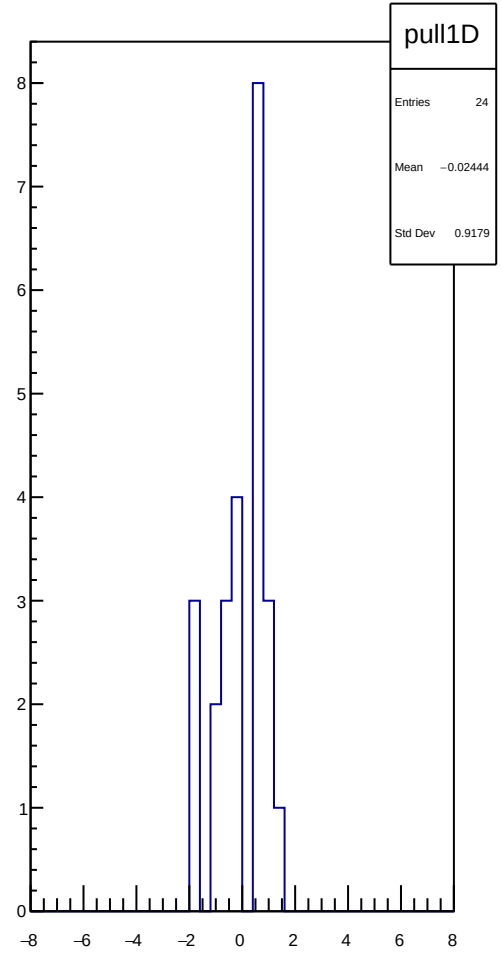

cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 19.26 / 23
p0 −3376 ± 4110
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

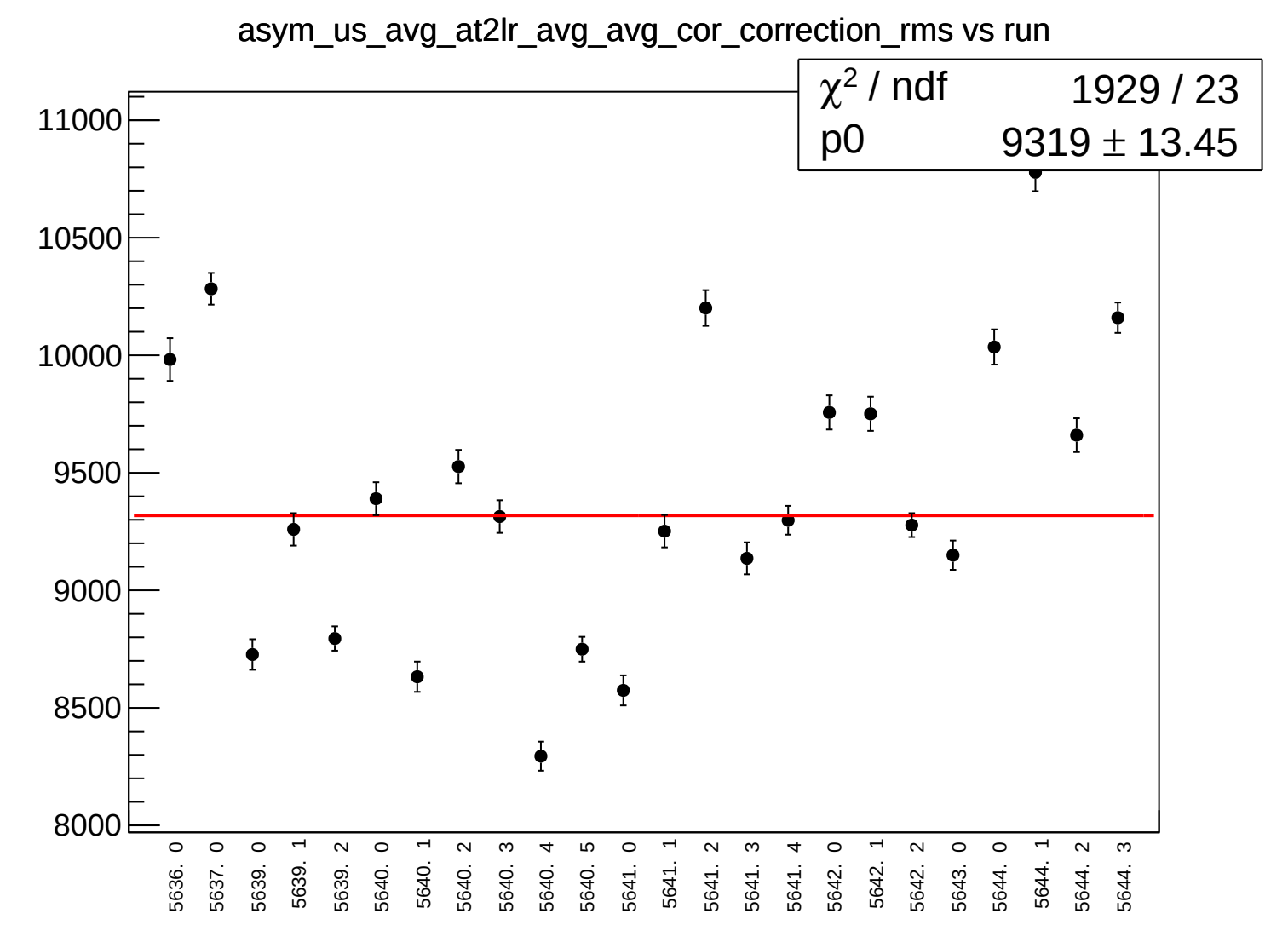

pull
Entries 24
Mean −11.03
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

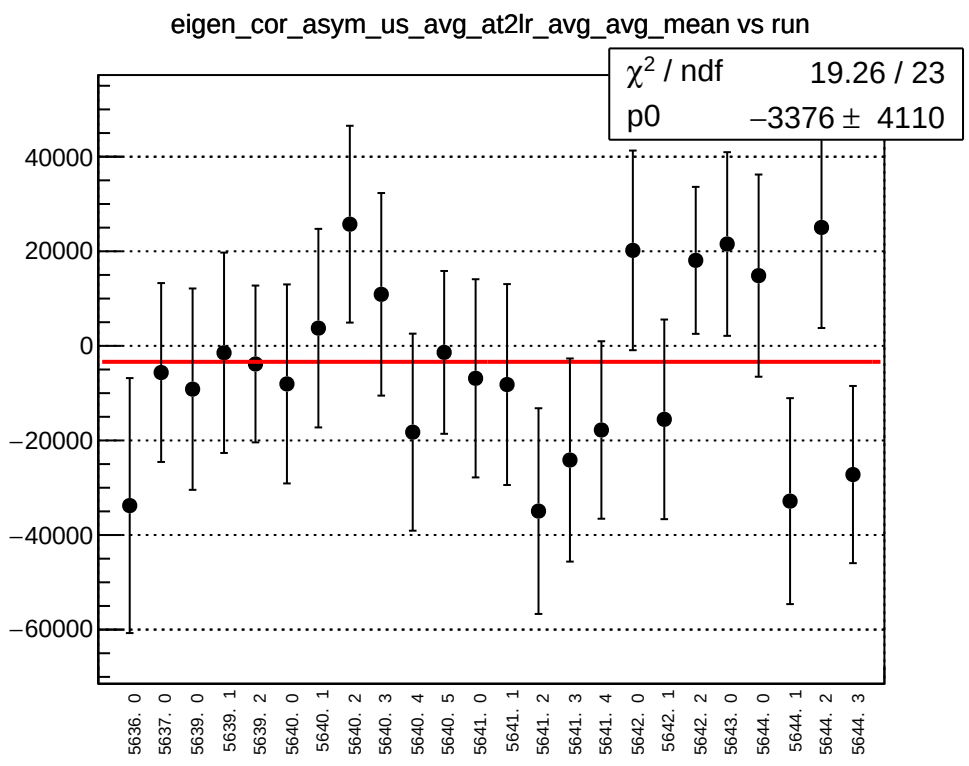

pull1D
Entries 24
Mean −0.02846
Std Dev 0.8953
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

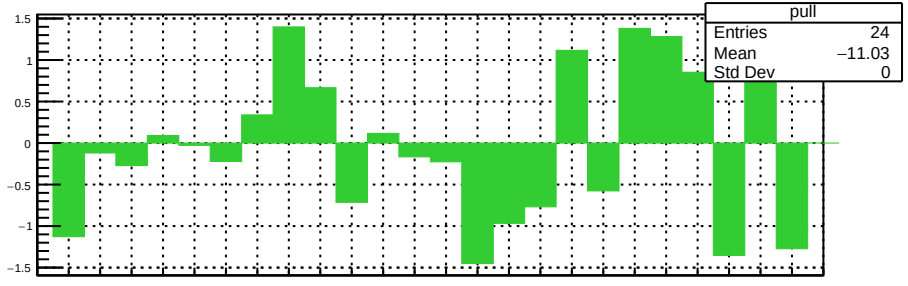

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 98.85 / 23
p0 2018 ± 2.906
2120
2100
2080
2060
2040
2020
2000
1980
1960
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

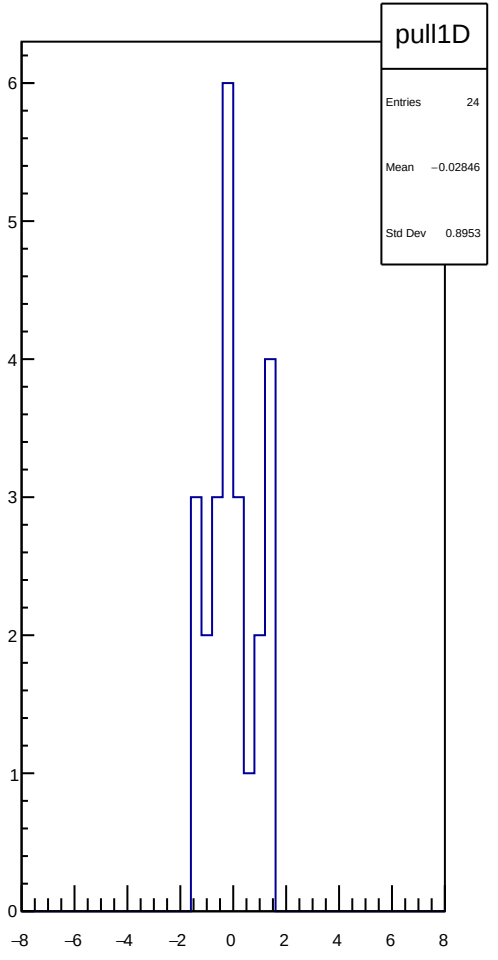

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 20.24 / 23
p0 −1.208e+04 ± 1.902e+04
200
100
0
−100
−200
−300
−400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −88.68
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

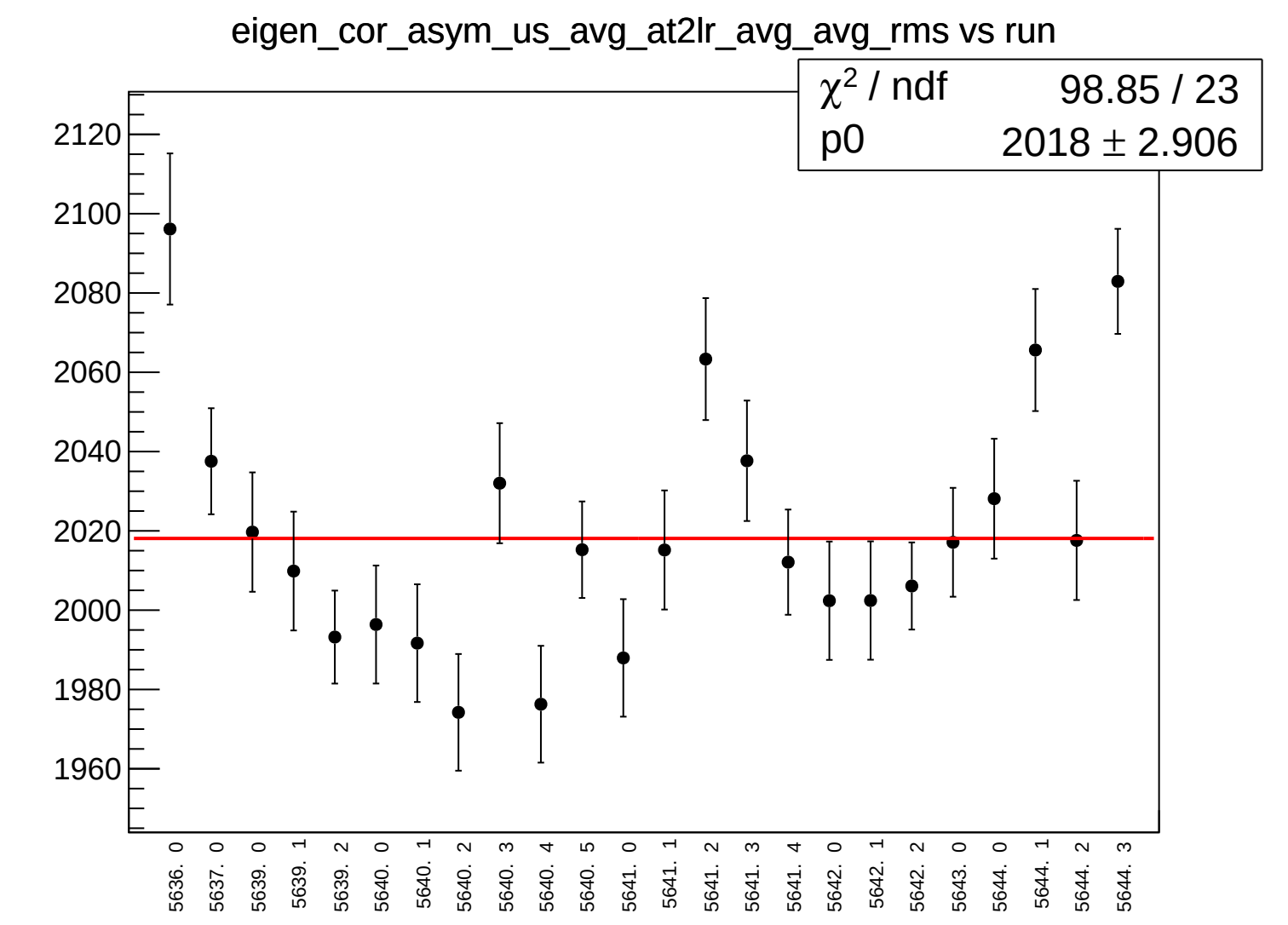

pull1D
Entries 24
Mean −0.02444
Std Dev 0.9179
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

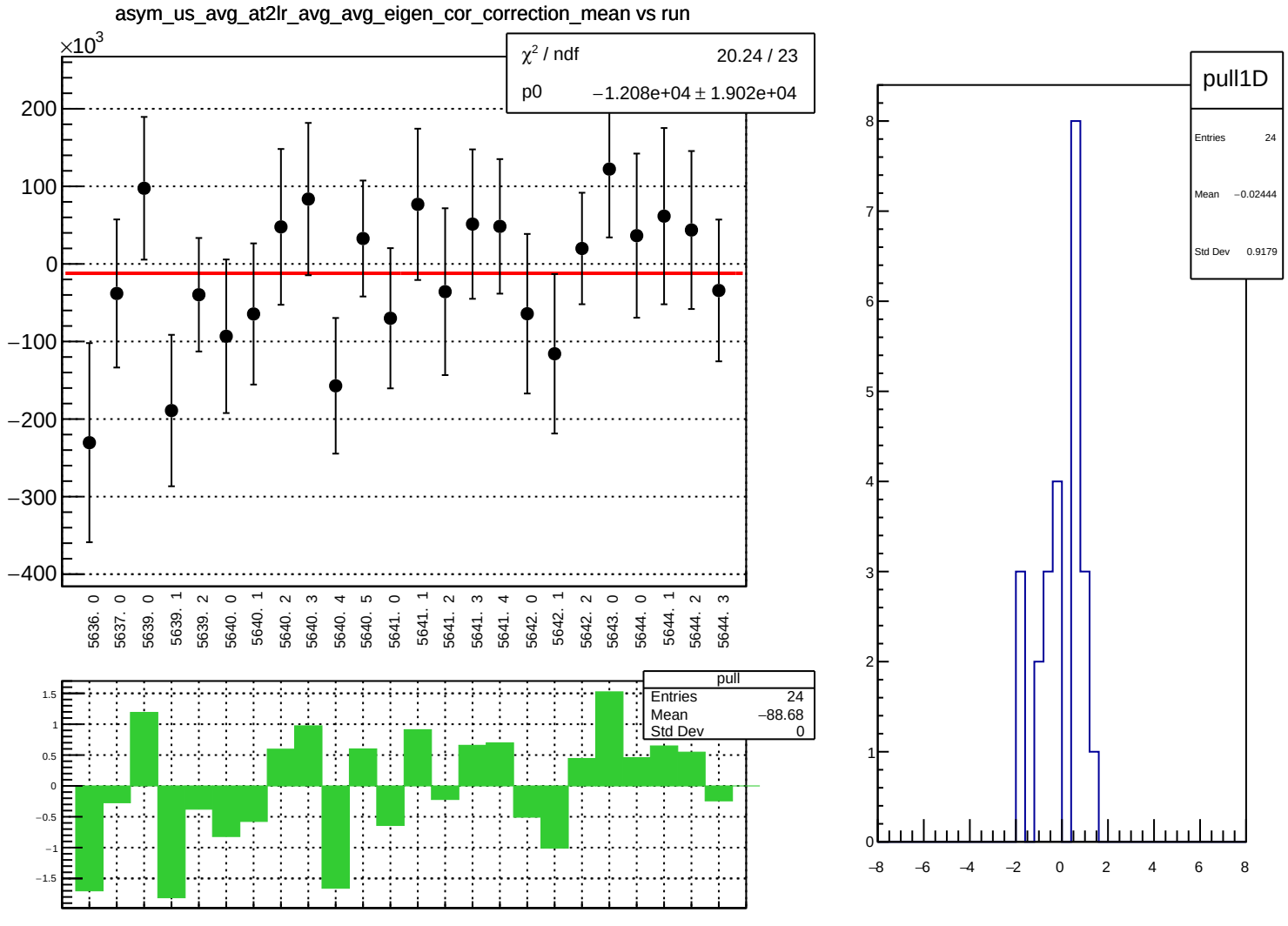

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 1929 / 23
p0 9319 ± 13.45
11000
10500
10000
9500
9000
8500
8000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

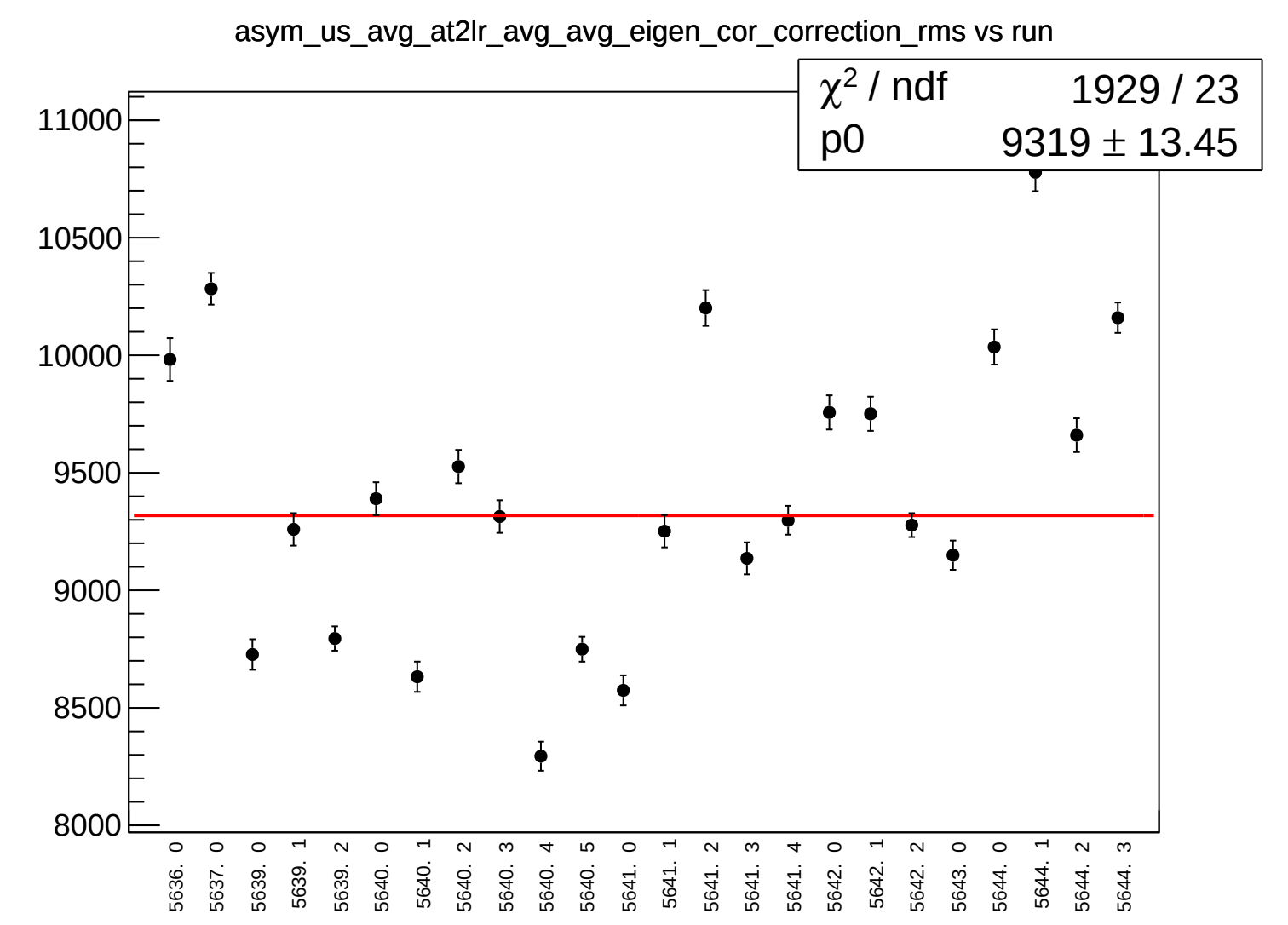

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 19.26 / 23
p0 −3376 ± 4110
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

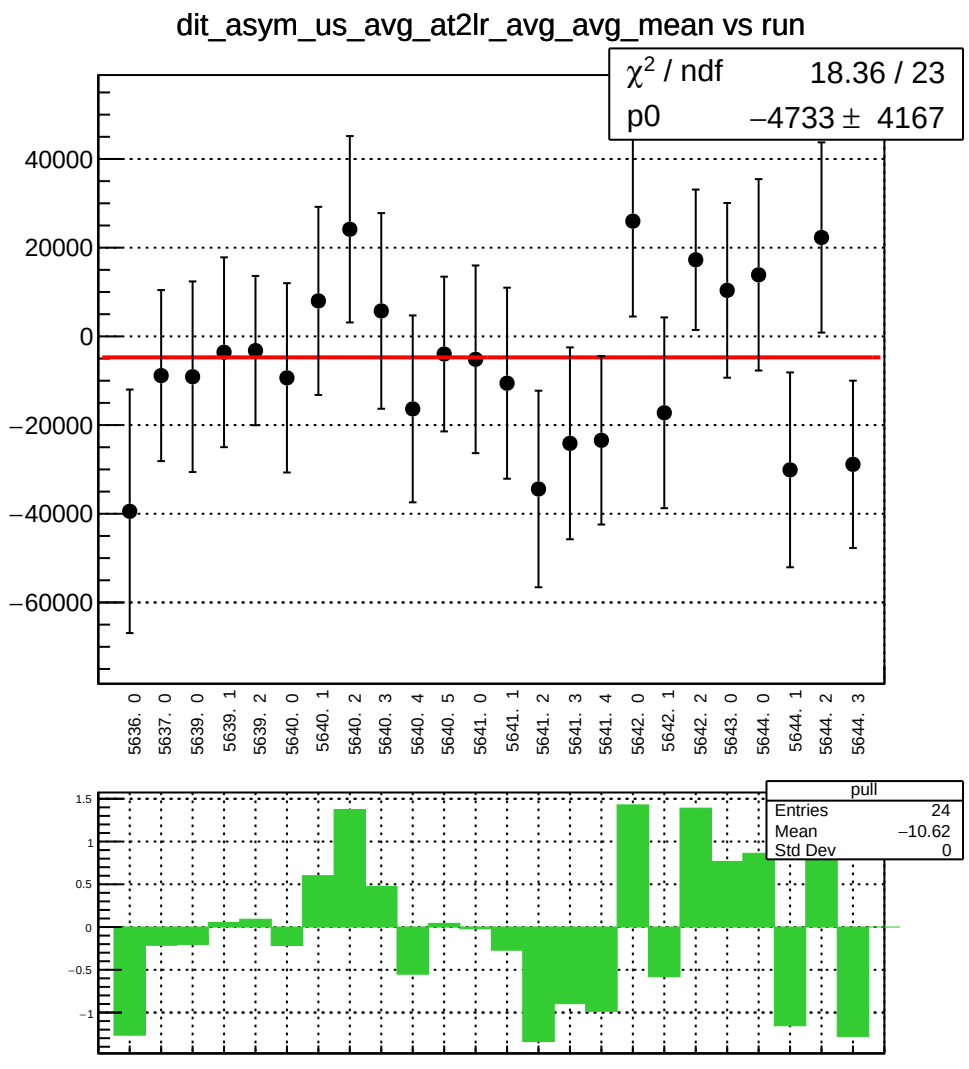

pull
Entries 24
Mean −11.03
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

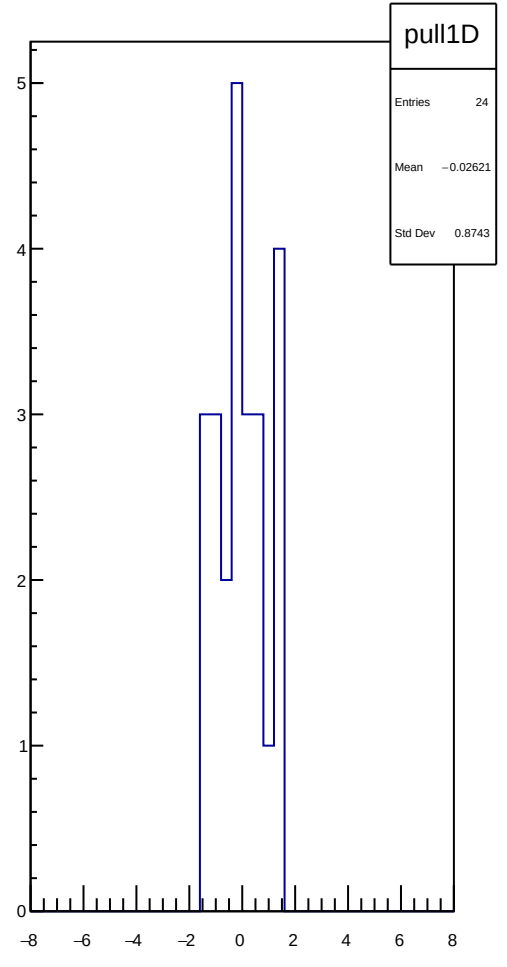

pull1D
Entries 24
Mean −0.02846
Std Dev 0.8953
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

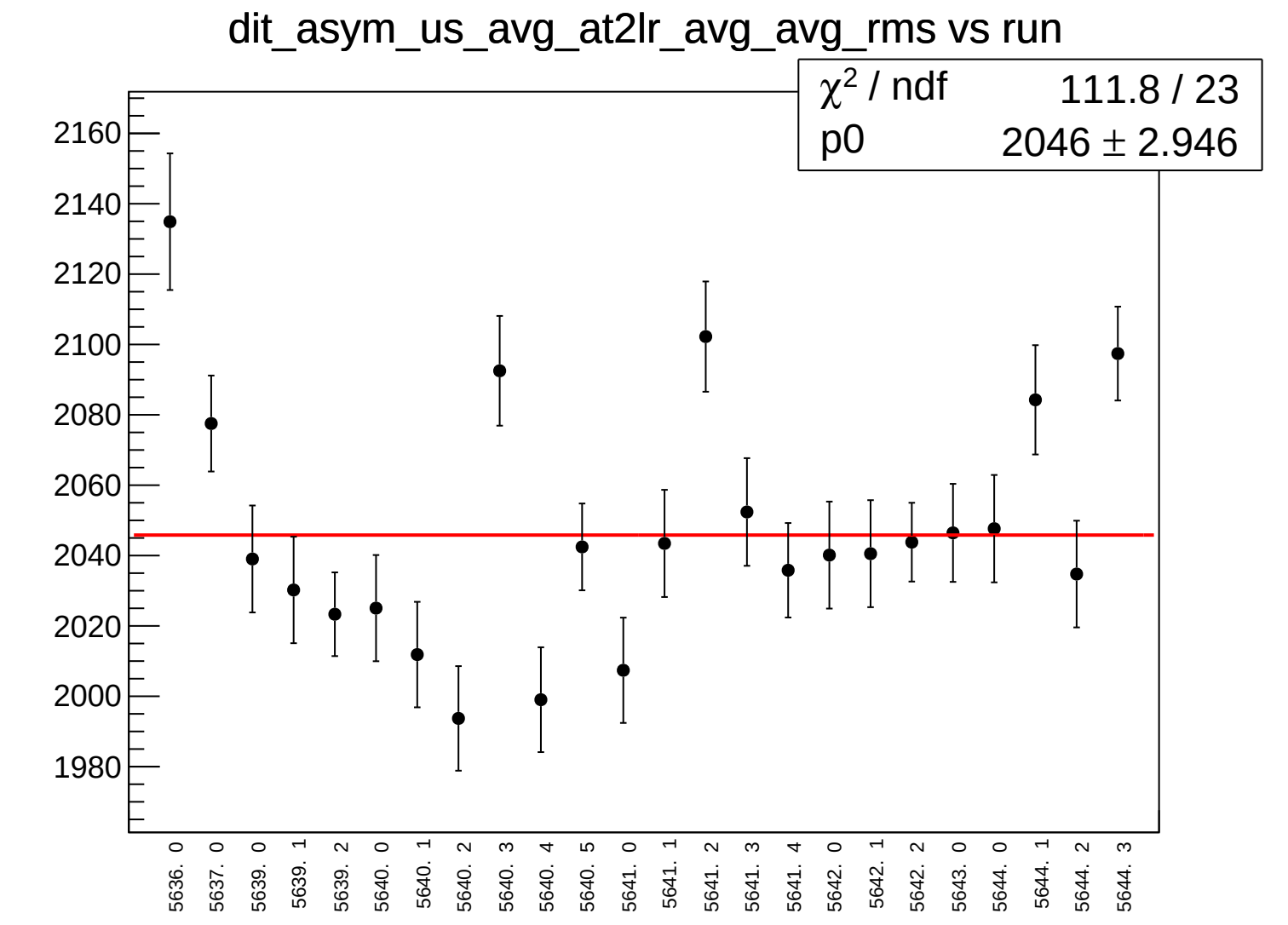

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 98.85 / 23
p0 2018 ± 2.906
2120
2100
2080
2060
2040
2020
2000
1980
1960
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

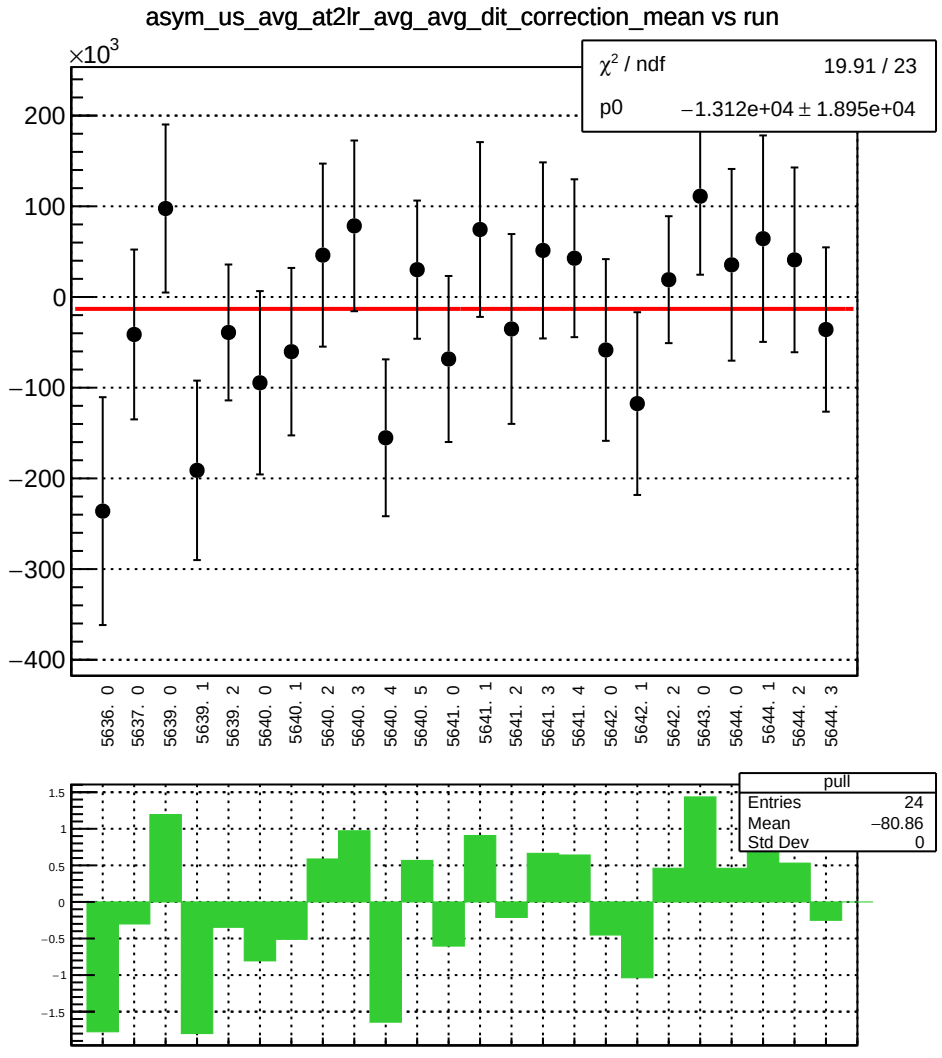

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 20.24 / 23
p0 −1.208e+04 ± 1.902e+04
200
100
0
−100
−200
−300
−400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −88.68
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.02444
Std Dev 0.9179
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

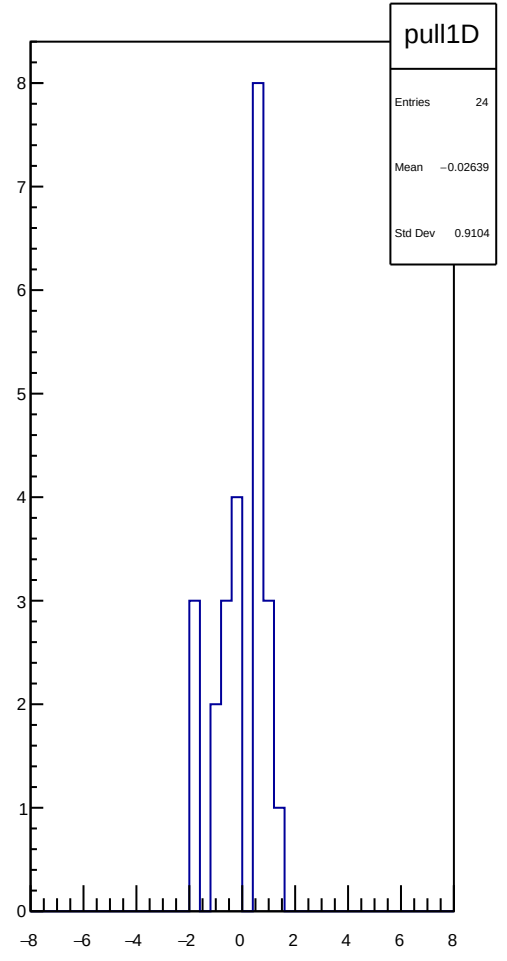

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1929 / 23
p0 9319 ± 13.45
11000
10500
10000
9500
9000
8500
8000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

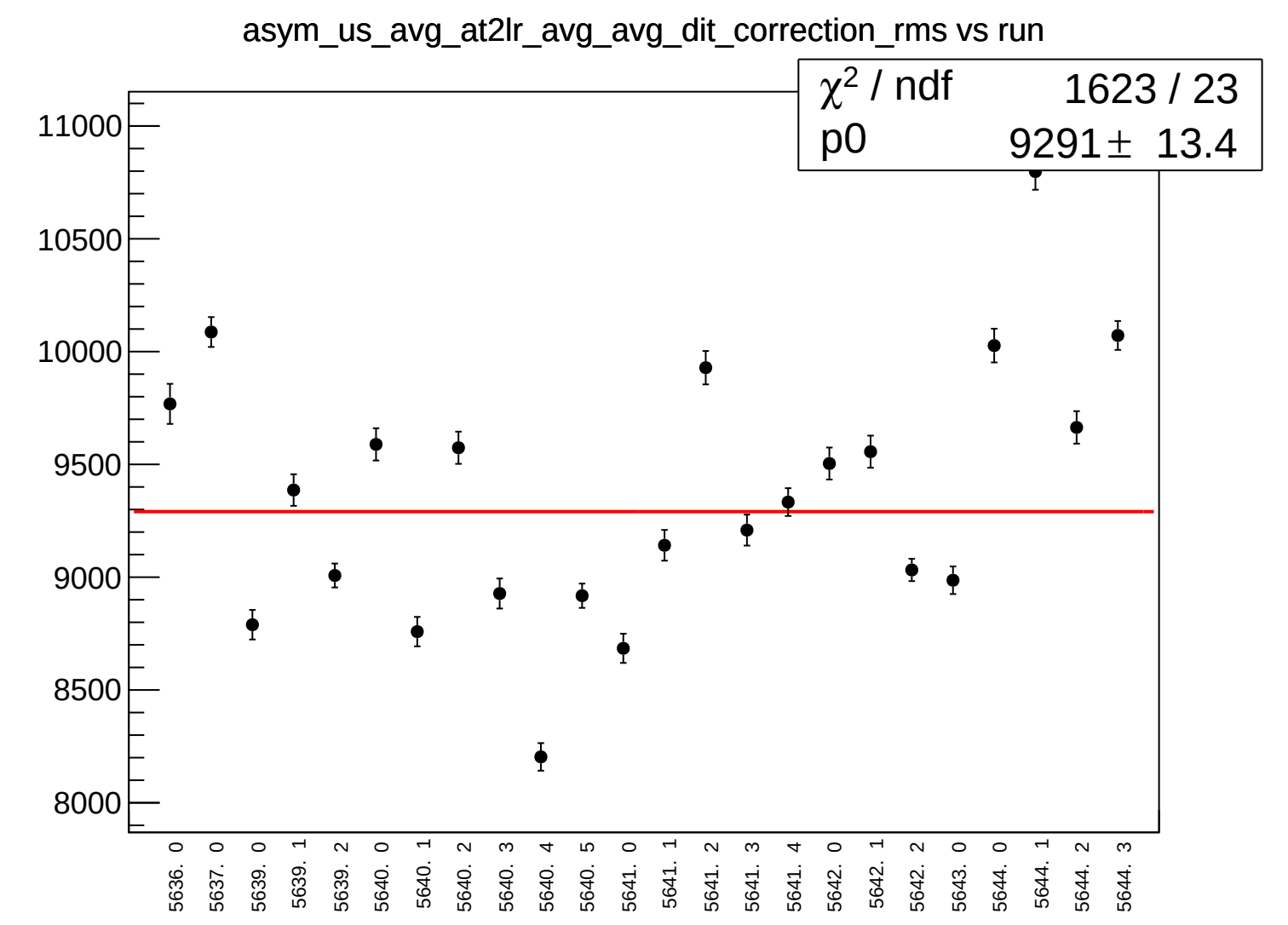

dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 18.36 / 23
p0 −4733 ± 4167
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −10.62
Std Dev 0
1.5
1
0.5
0
−0.5
−1

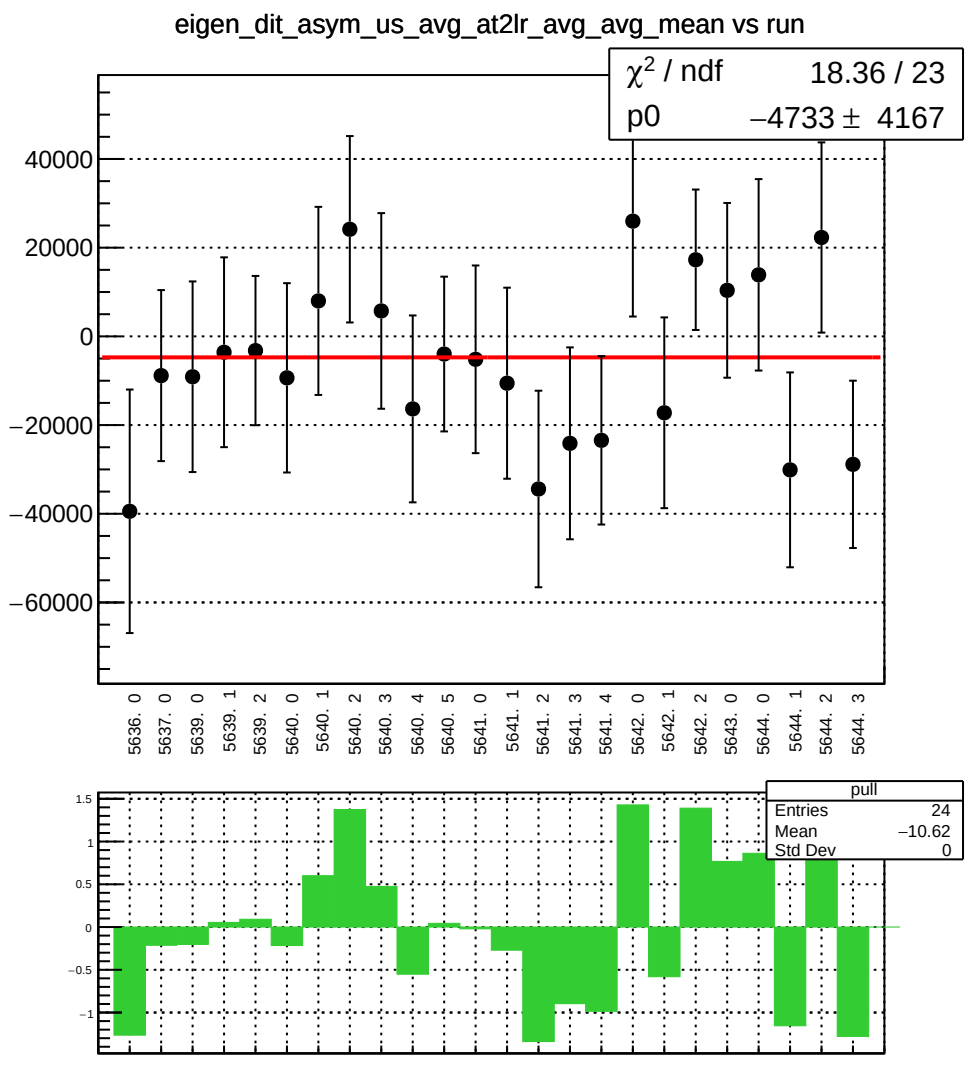

pull1D
Entries 24
Mean −0.02621
Std Dev 0.8743
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

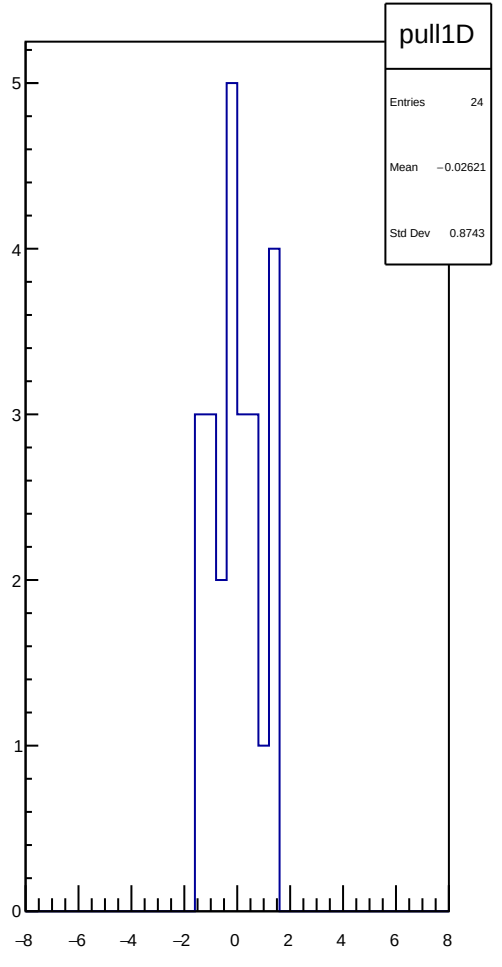

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 111.8 / 23
p0 2046 ± 2.946
2160
2140
2120
2100
2080
2060
2040
2020
2000
1980
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

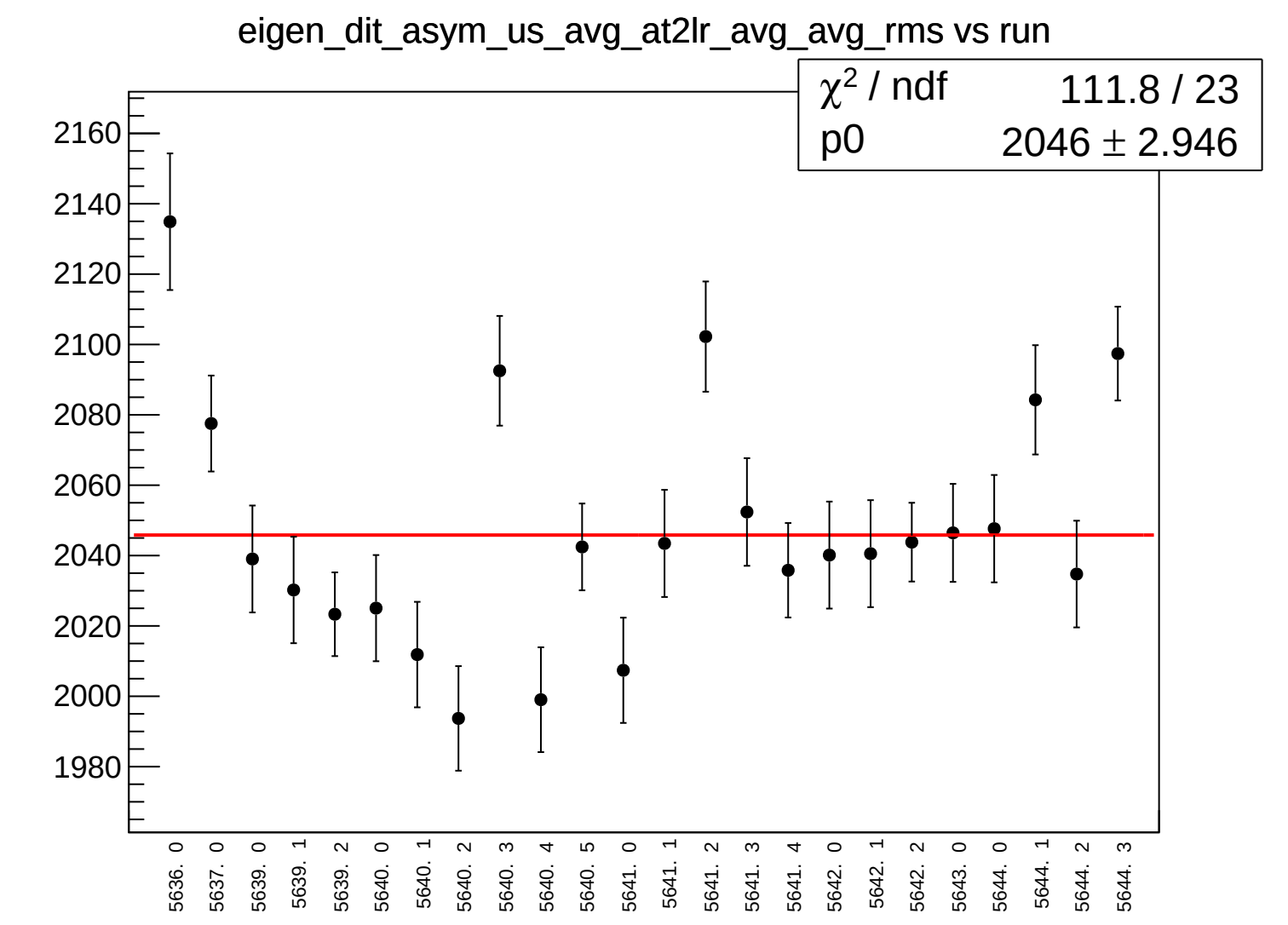

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 19.91 / 23
p0 −1.312e+04 ± 1.895e+04
200
100
0
−100
−200
−300
−400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −80.86
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

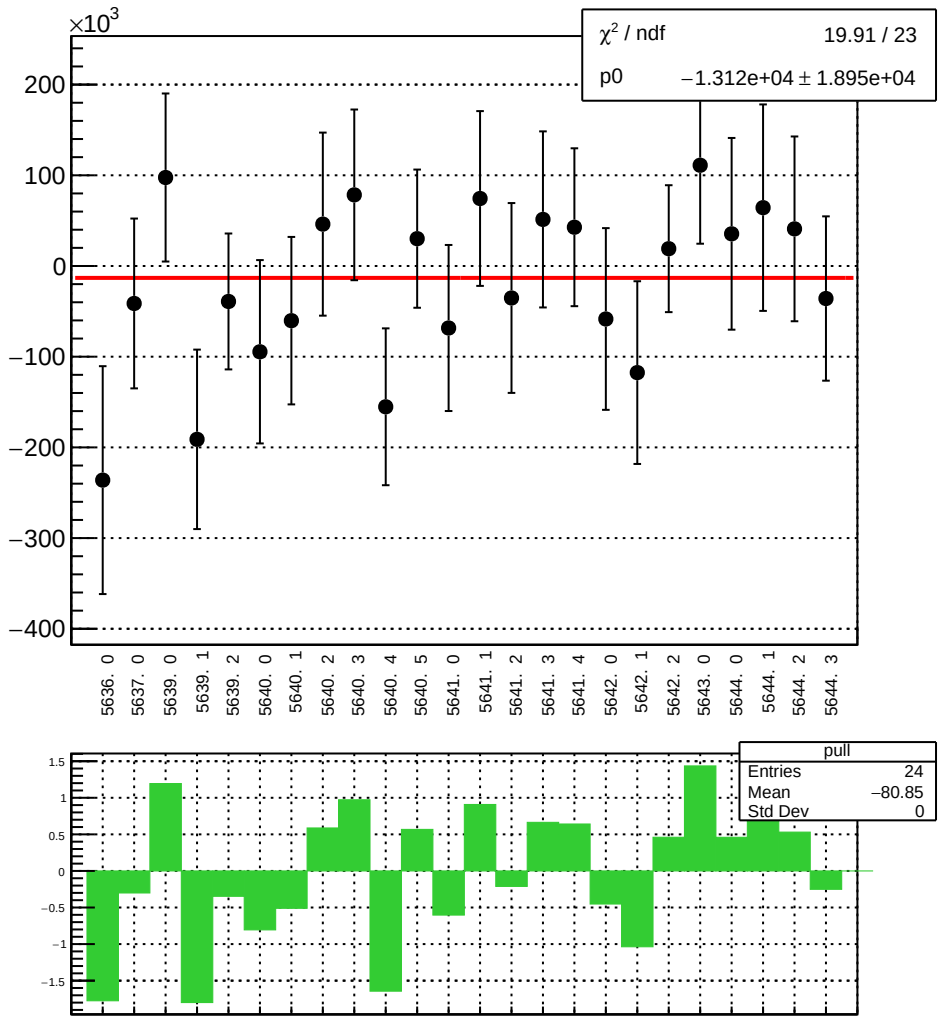

pull1D
Entries 24
Mean −0.02639
Std Dev 0.9104
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

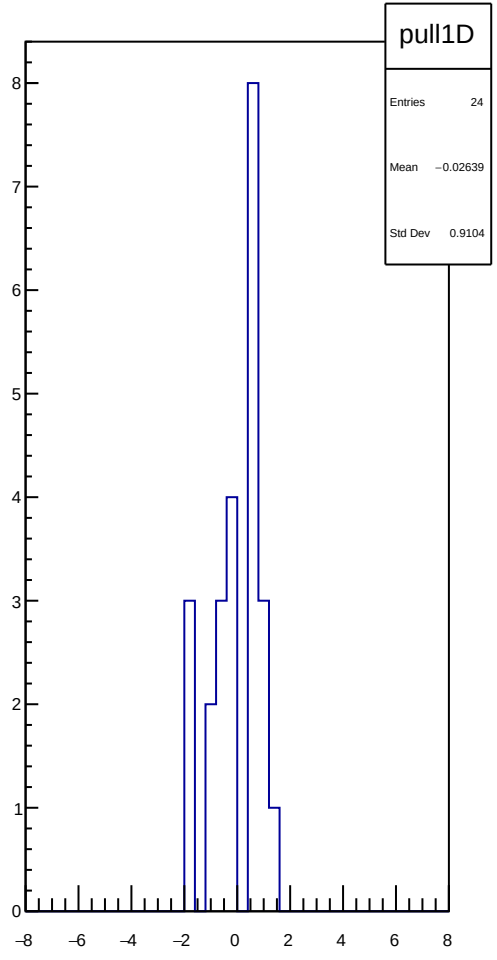

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 1623 / 23
p0 9291 ± 13.4
11000
10500
10000
9500
9000
8500
8000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

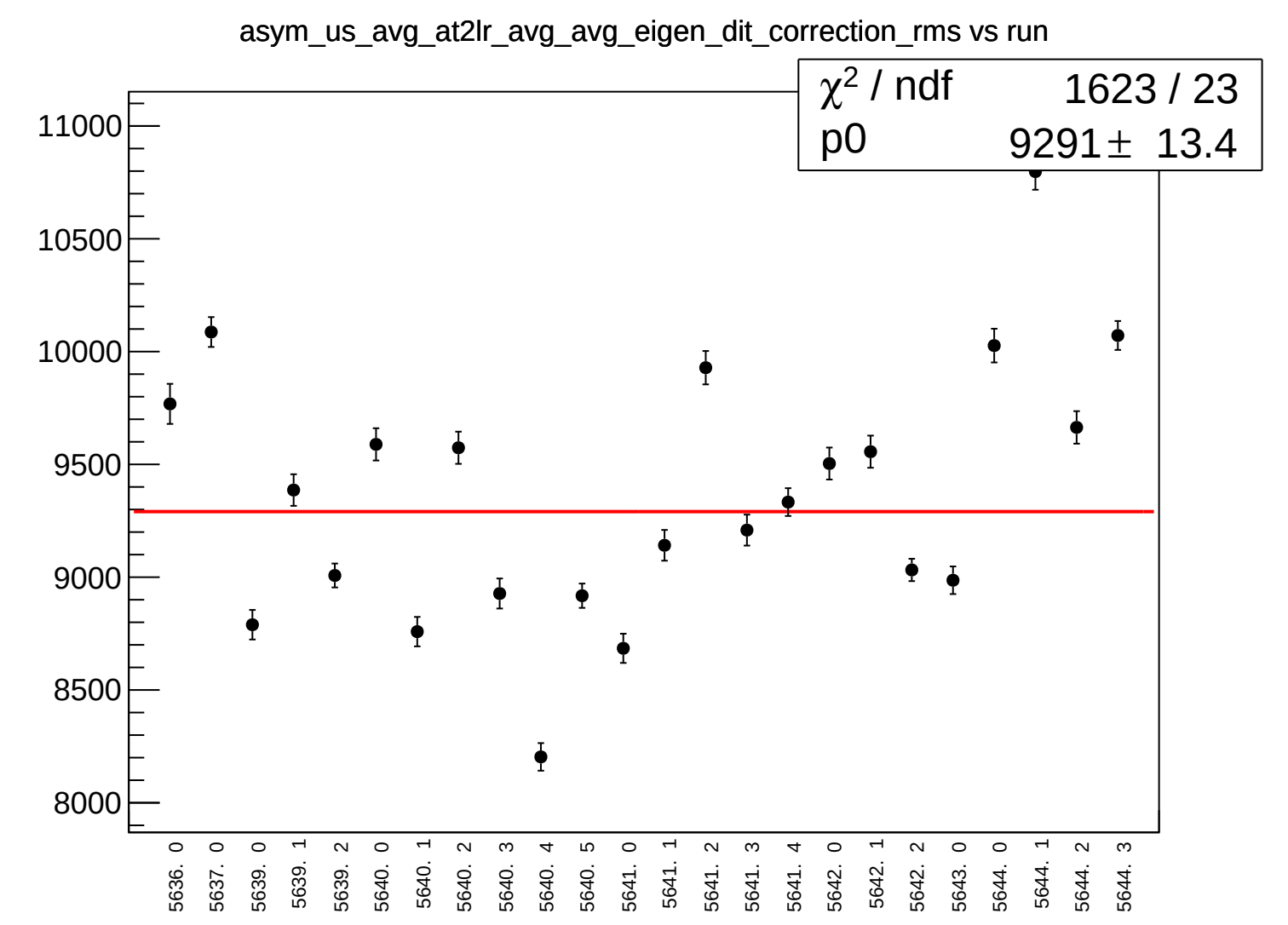

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 18.36 / 23
p0 −4733 ± 4167
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −10.62
Std Dev 0
1.5
1
0.5
0
−0.5
−1

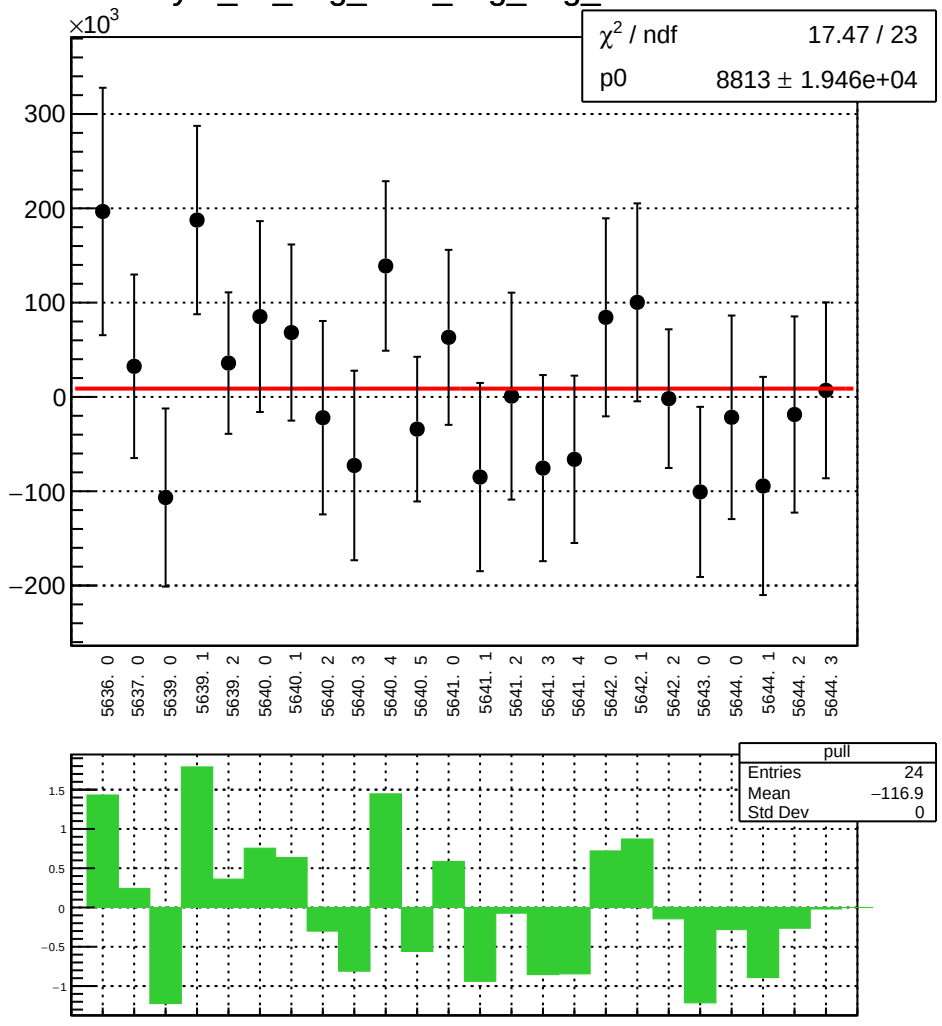

pull1D
Entries 24
Mean −0.02621
Std Dev 0.8743
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

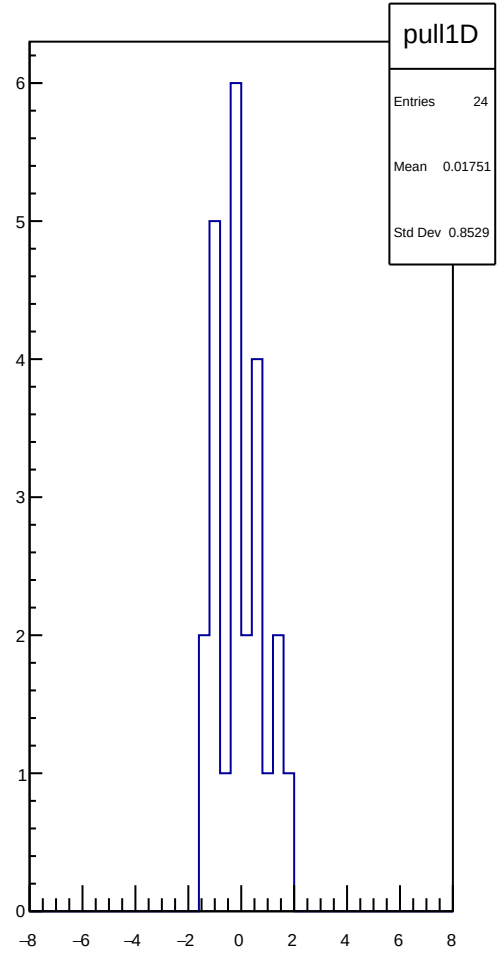

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 111.8 / 23
p0 2046 ± 2.946
2160
2140
2120
2100
2080
2060
2040
2020
2000
1980
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

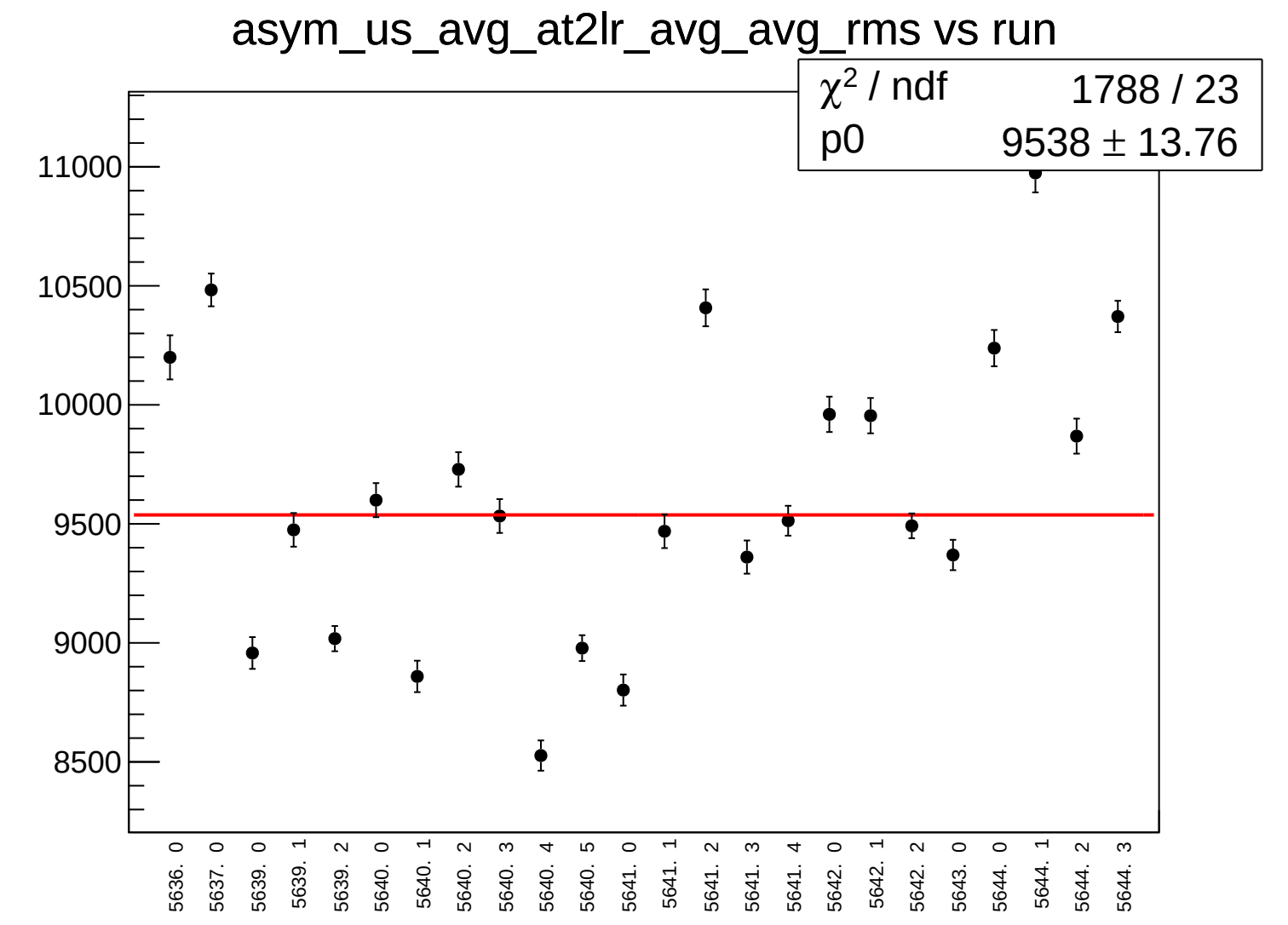

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 19.91 / 23
p0 −1.312e+04 ± 1.895e+04
200
100
0
−100
−200
−300
−400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −80.85
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

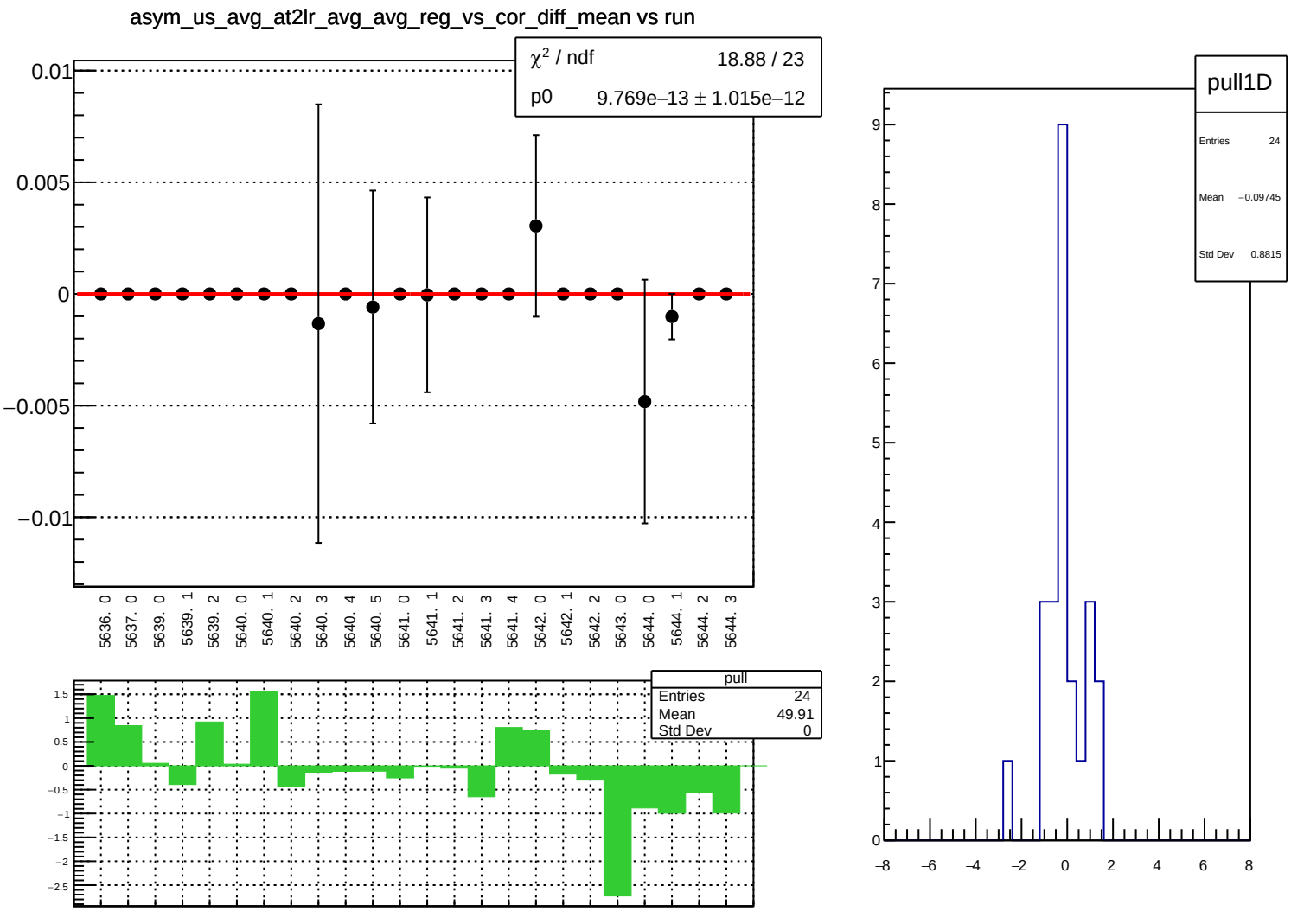

pull1D
Entries 24
Mean −0.02639
Std Dev 0.9104
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

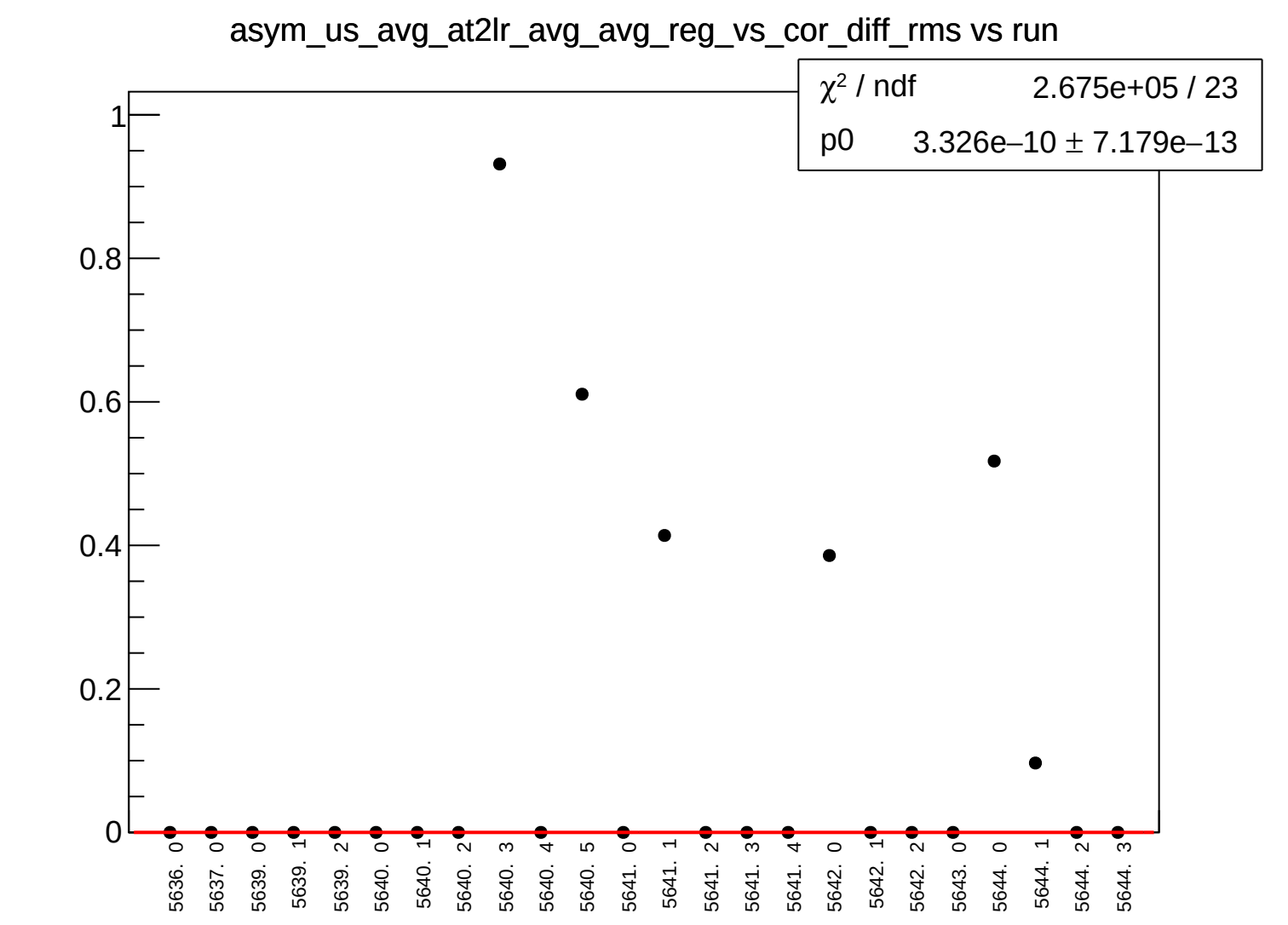

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1623 / 23
p0 9291 ± 13.4
11000
10500
10000
9500
9000
8500
8000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

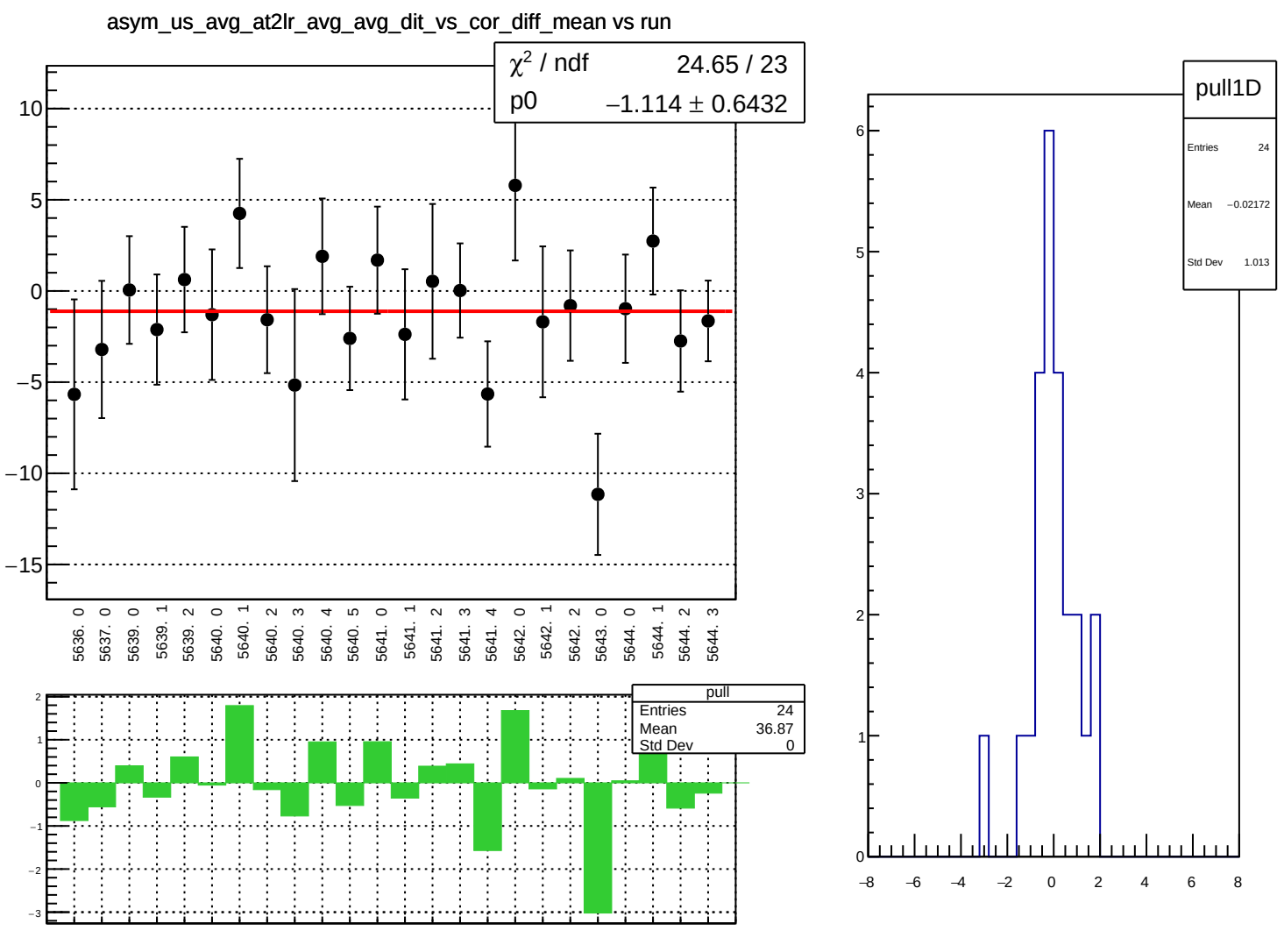

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 17.47 / 23
p0 8813 ± 1.946e+04
300
200
100
0
−100
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −116.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1

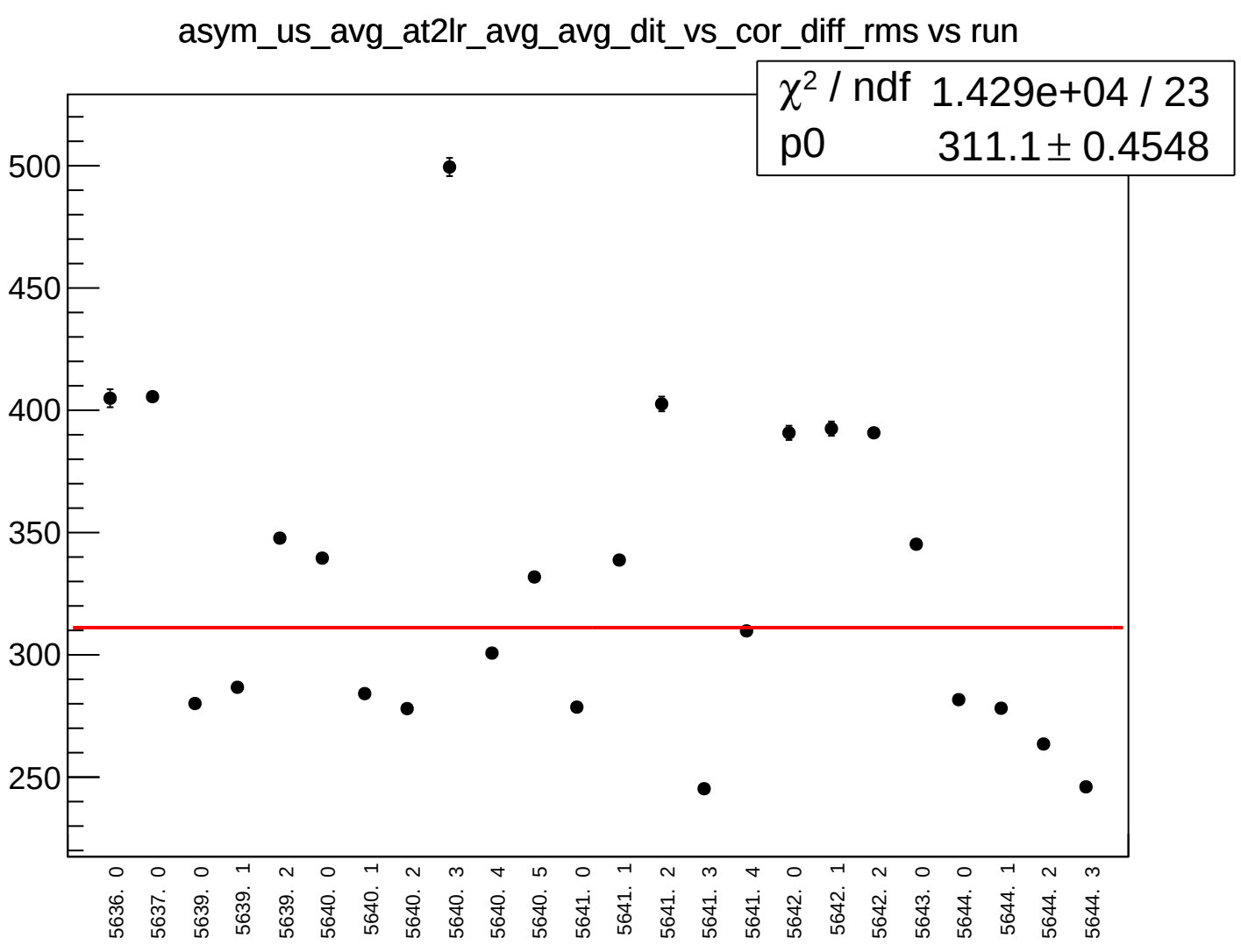

pull1D
Entries 24
Mean 0.01751
Std Dev 0.8529
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

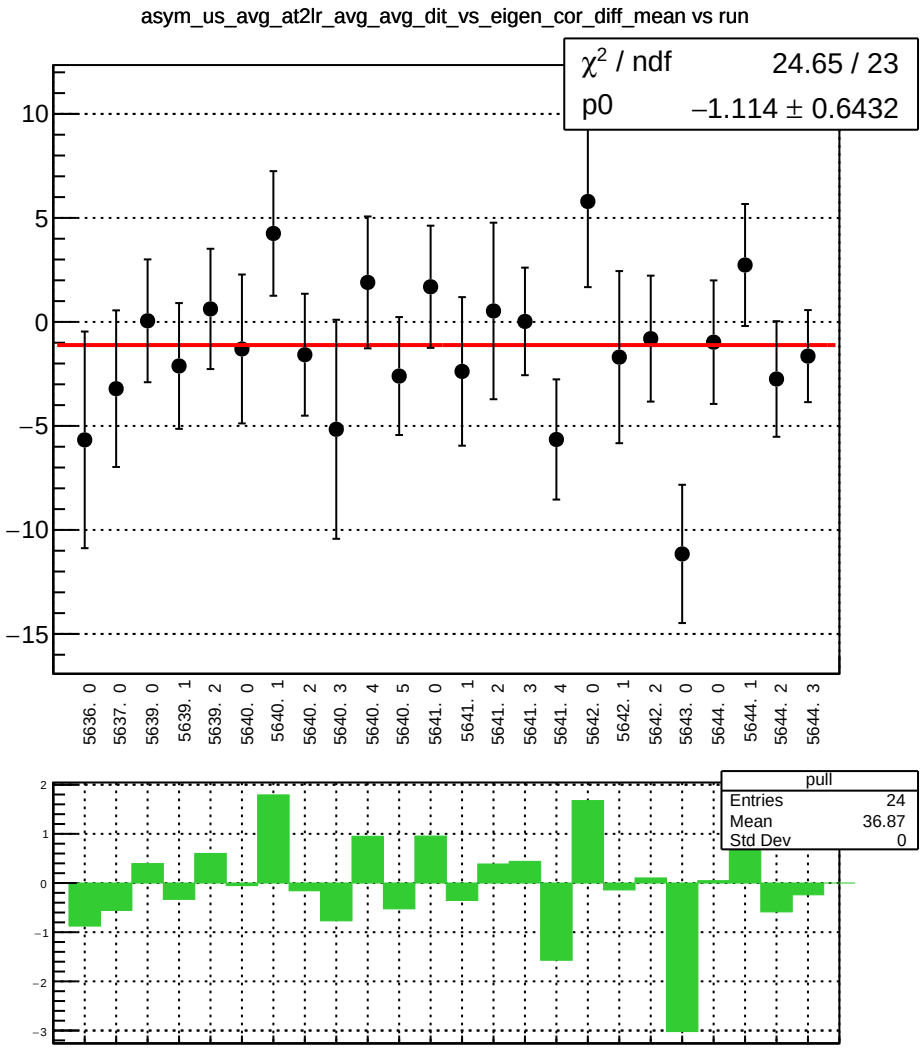

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1788 / 23
p0 9538 ± 13.76
11000
10500
10000
9500
9000
8500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

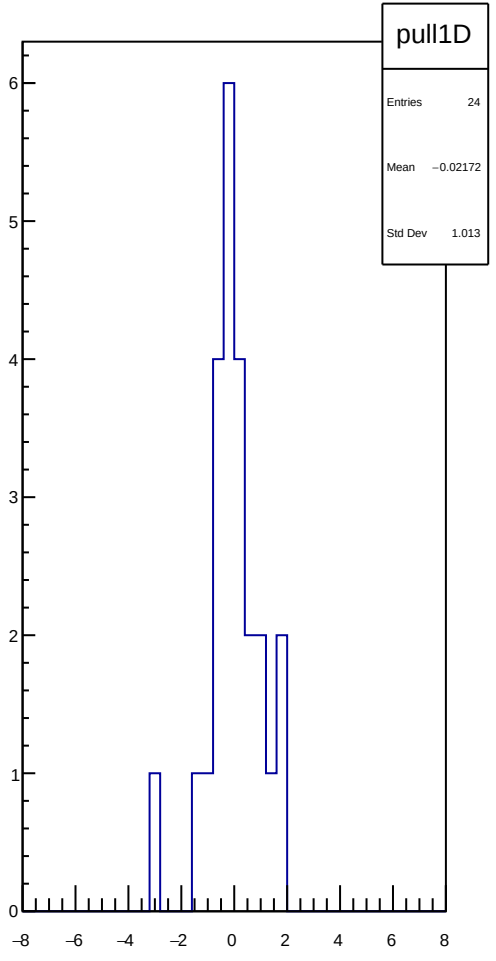

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 18.88 / 23
p0 9.769e−13 ± 1.015e−12
0.01
0.005
0
−0.005
−0.01
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 49.91
Std Dev 0
pull1D
Entries 24
Mean −0.09745
Std Dev 0.8815

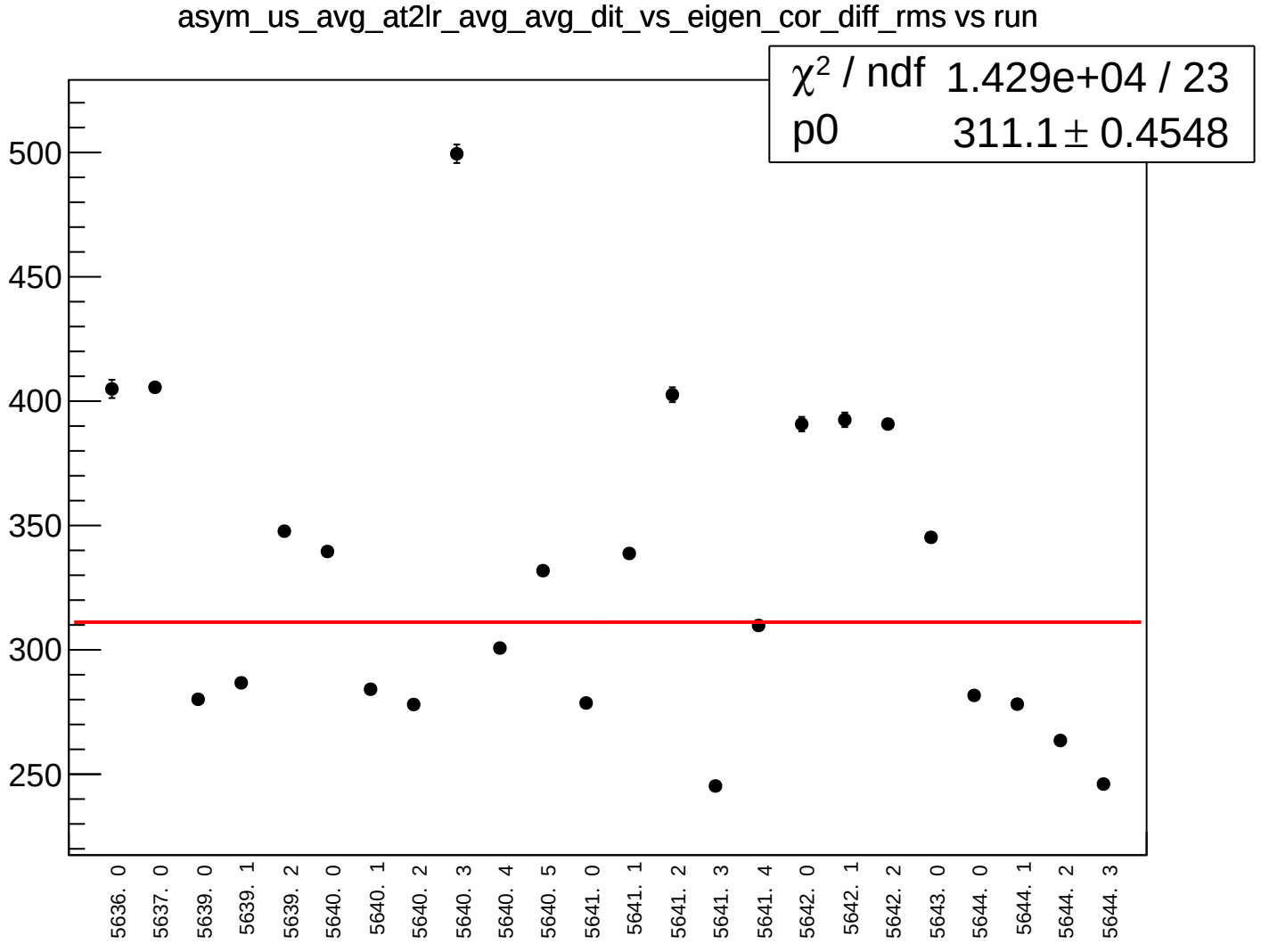

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.675e+05 / 23
p0 3.326e−10 ± 7.179e−13
1
0.8
0.6
0.4
0.2
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

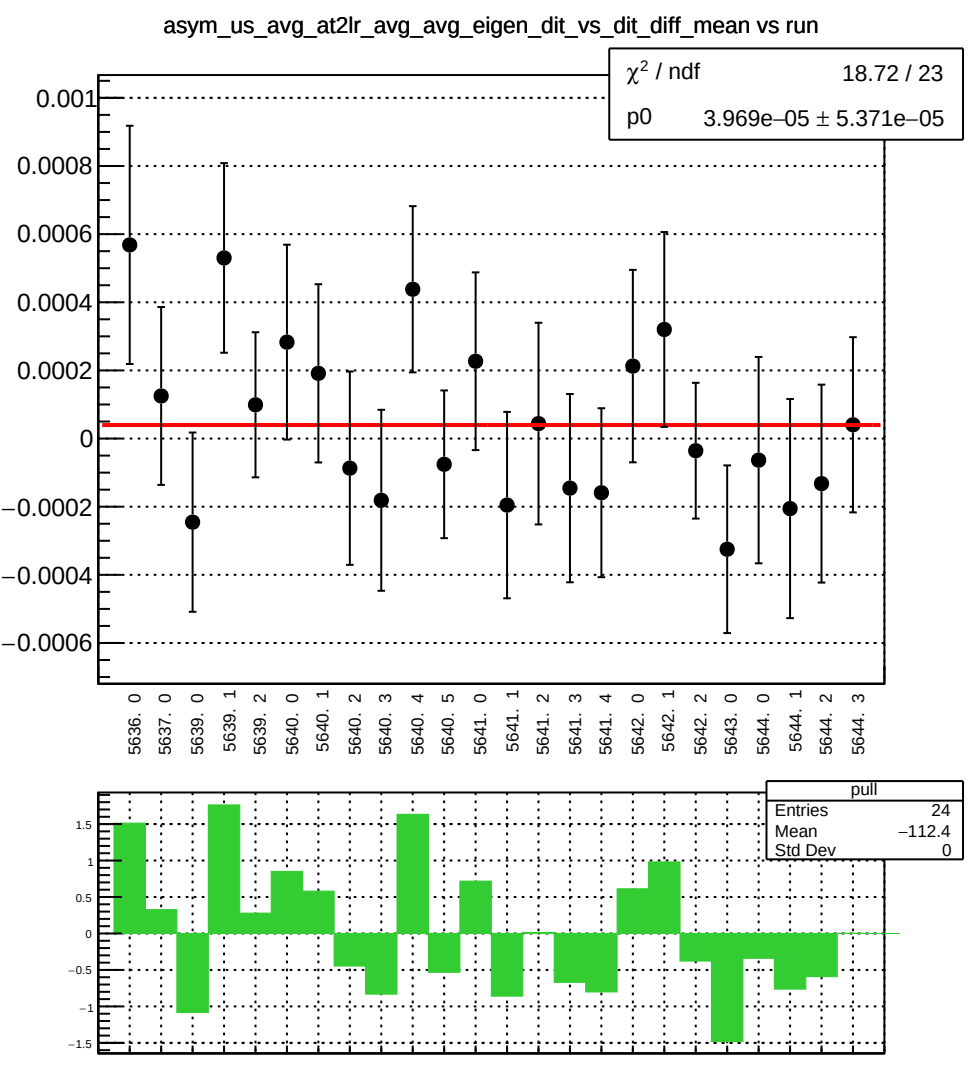

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 24.65 / 23
p0 −1.114 ± 0.6432
10
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 36.87
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean −0.02172
Std Dev 1.013
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

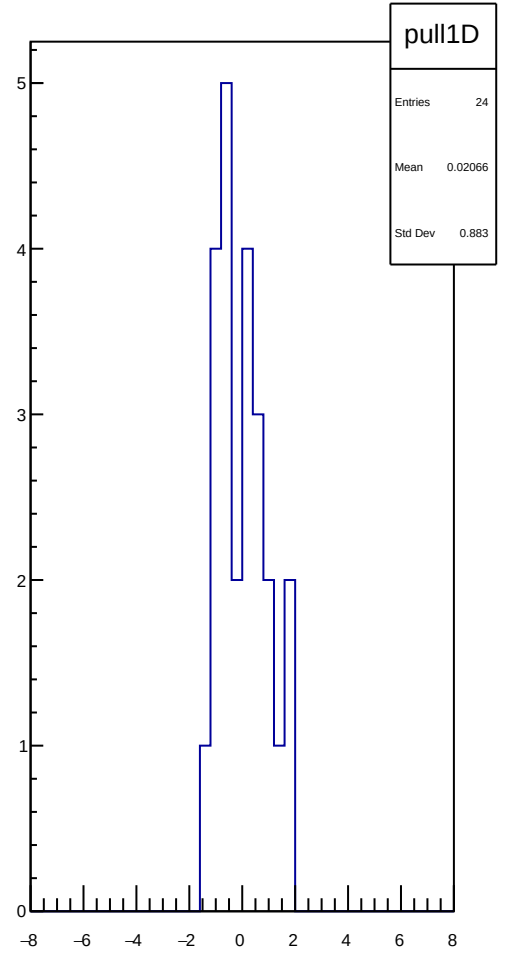

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.429e+04 / 23
p0 311.1 ± 0.4548
500
450
400
350
300
250
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

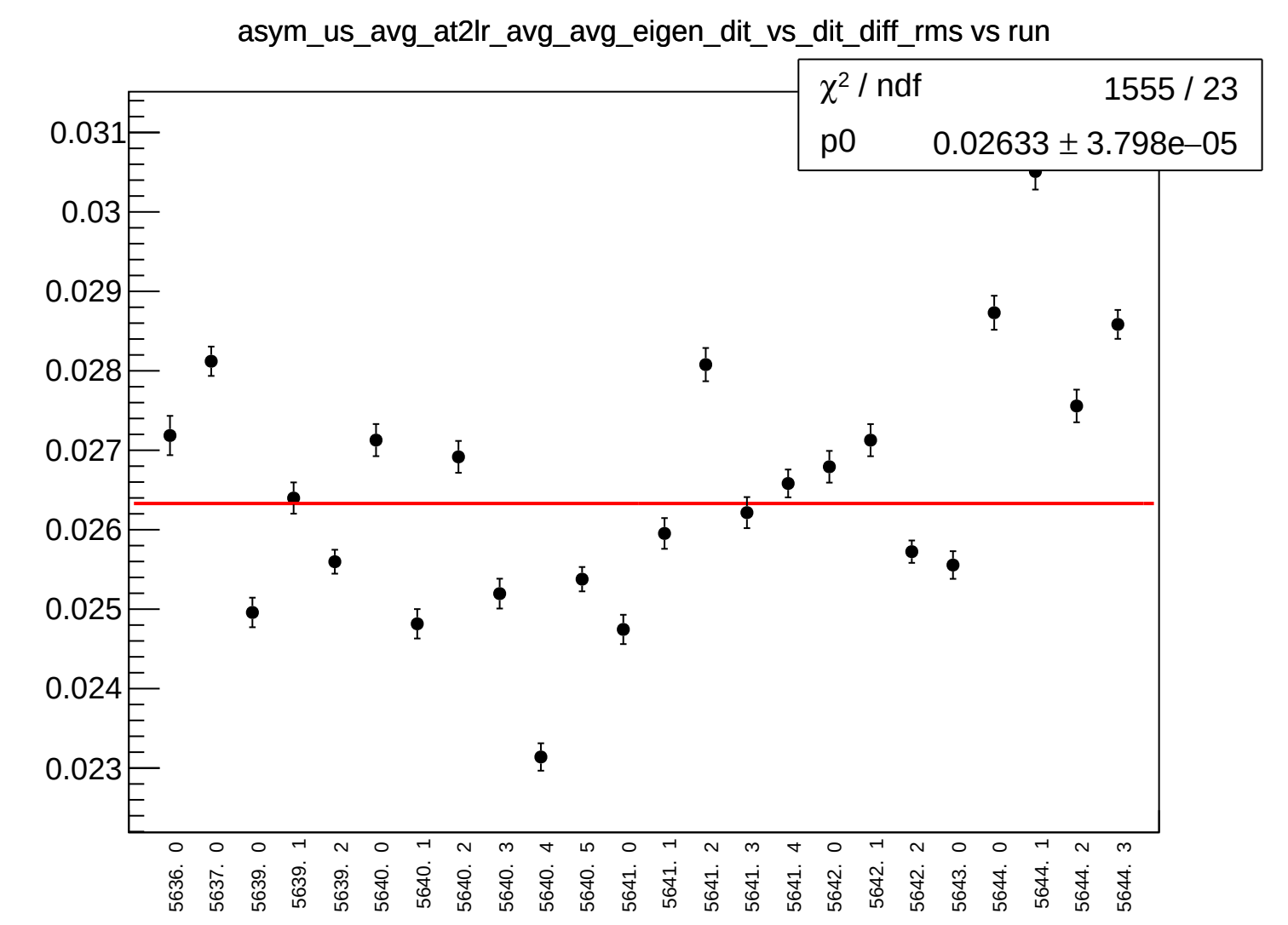

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.65 / 23
p0 −1.114 ± 0.6432
10
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 36.87
Std Dev 0
2
1
0
−1
−2
−3

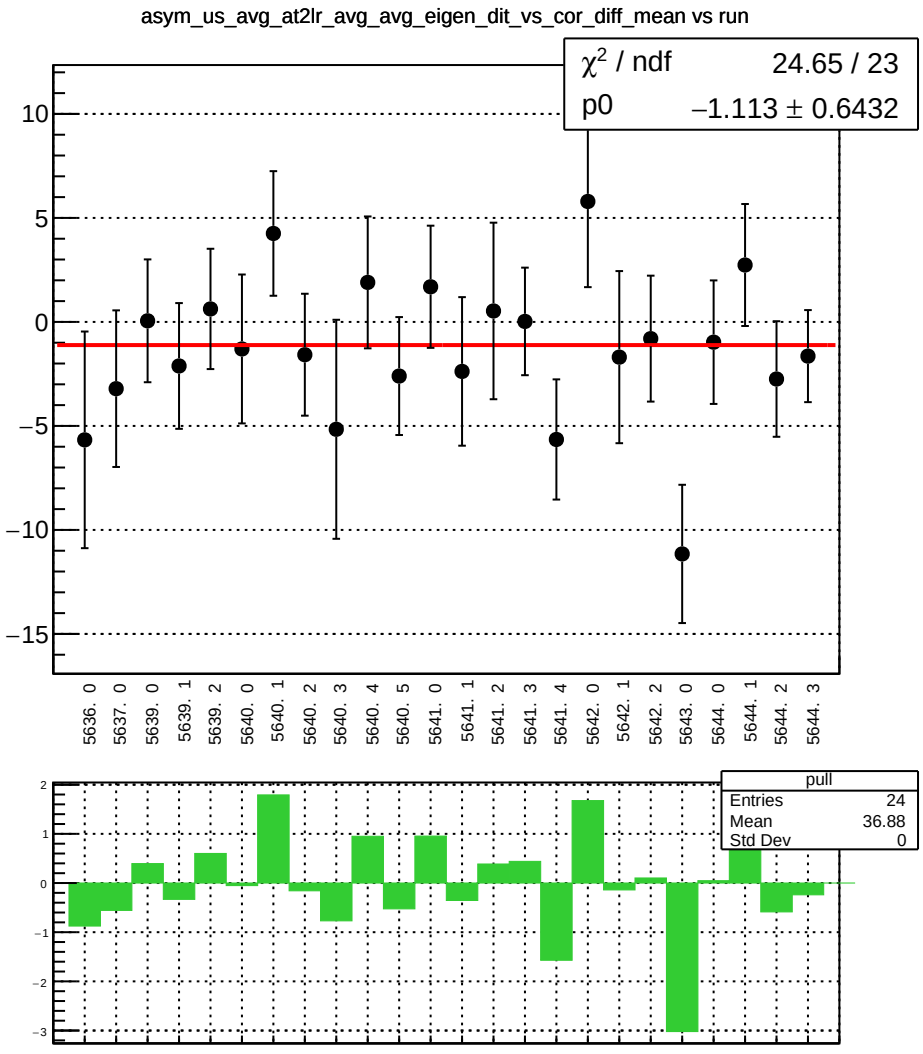

pull1D
Entries 24
Mean −0.02172
Std Dev 1.013
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

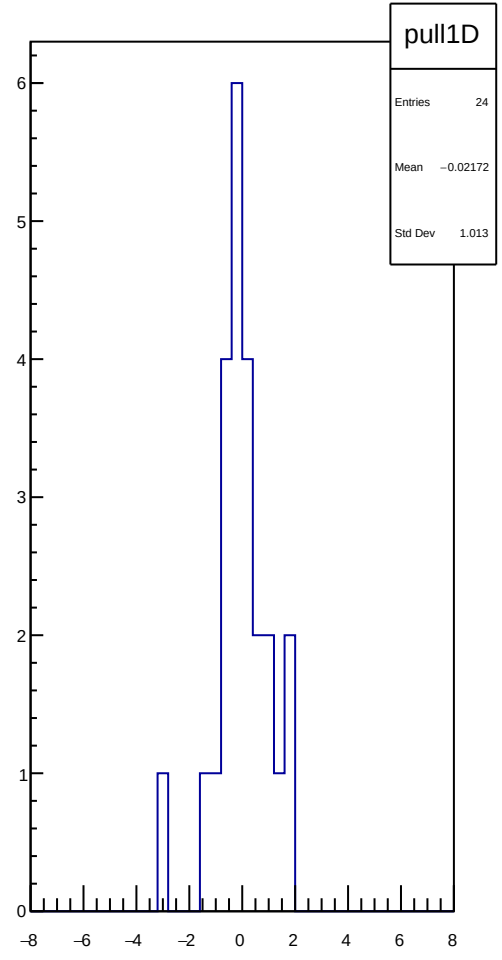

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.429e+04 / 23
p0 311.1 ± 0.4548
500
450
400
350
300
250
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

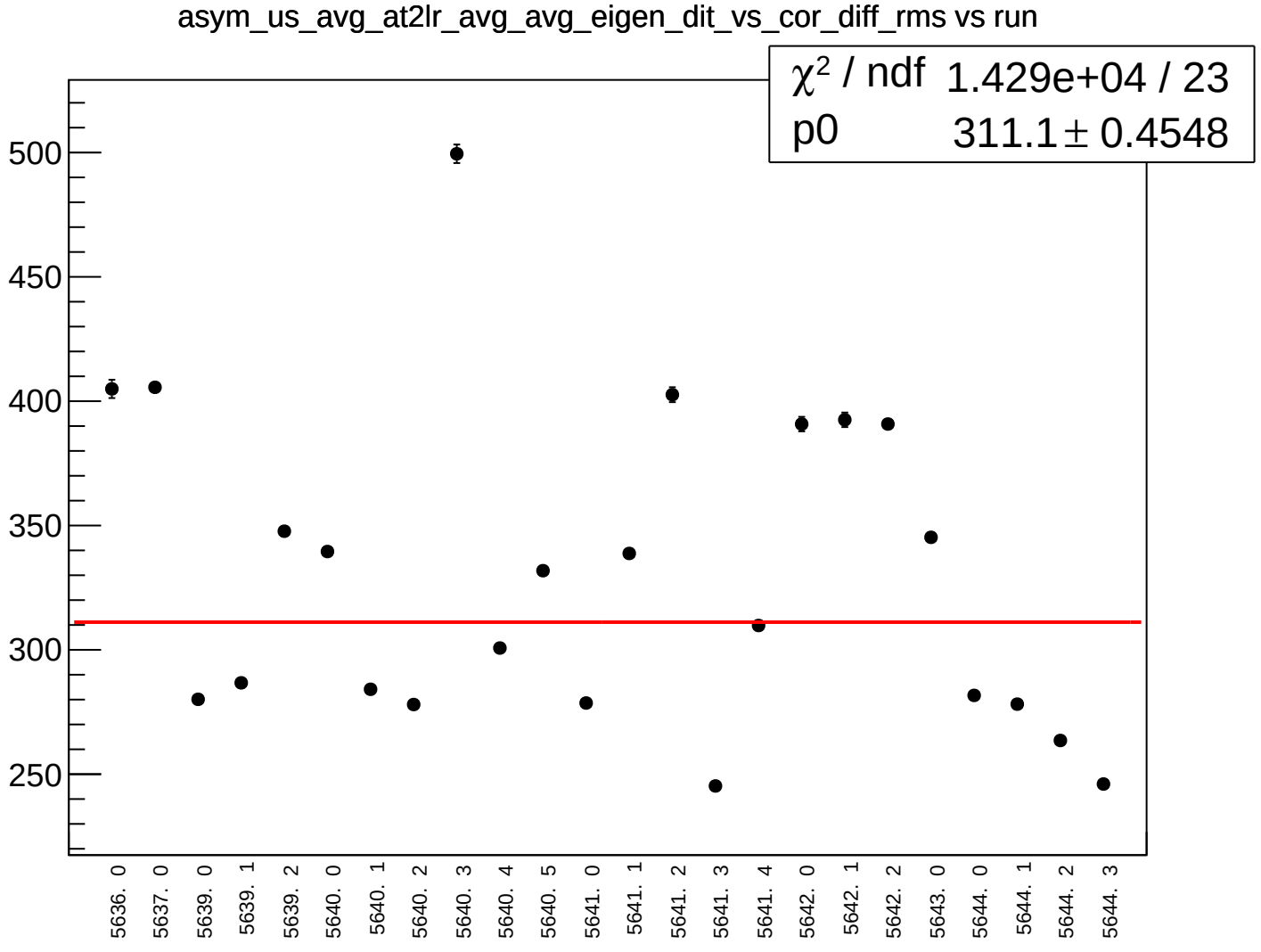

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 18.72 / 23
p0 3.969e−05 ± 5.371e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −112.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

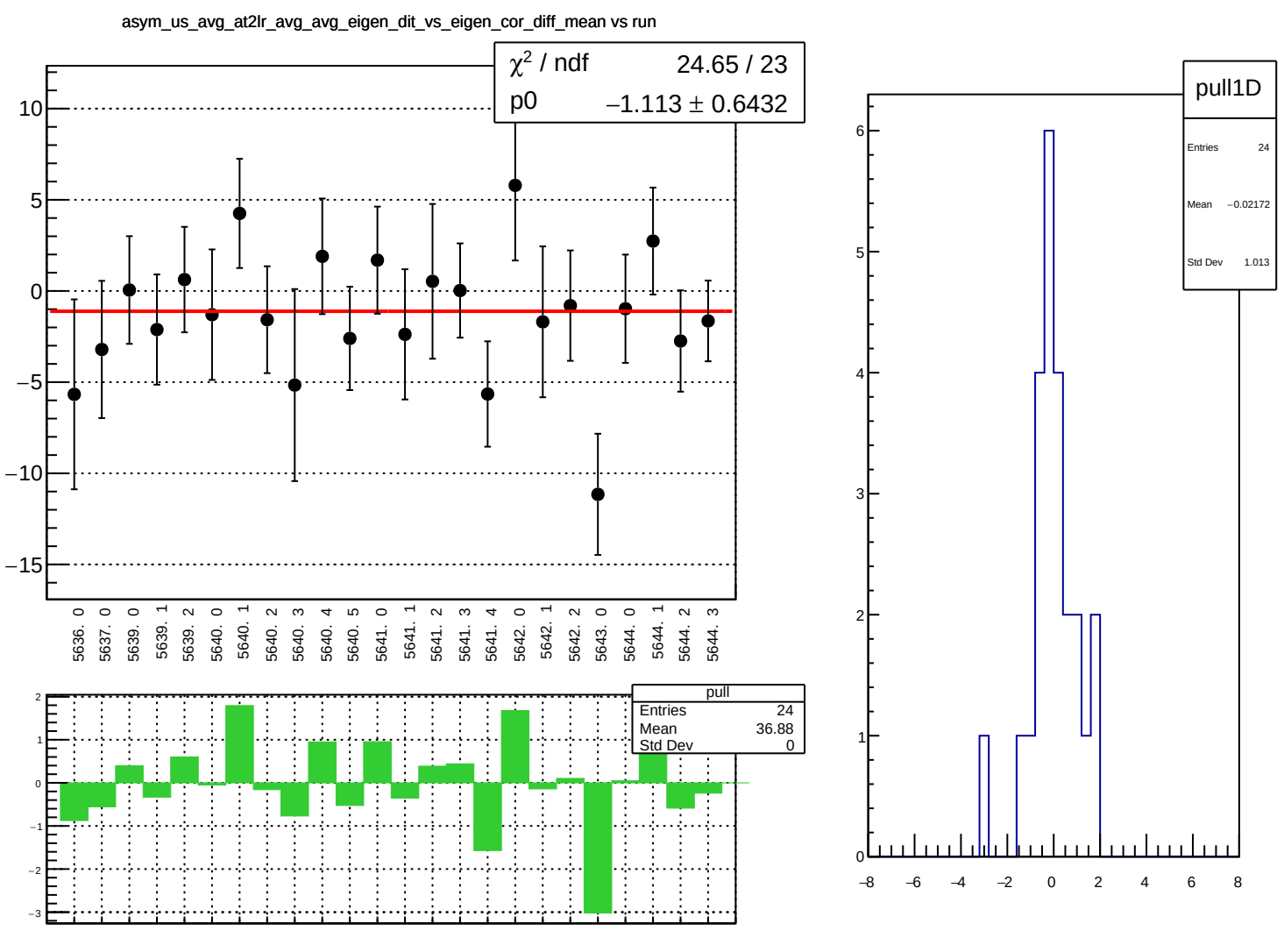

pull1D
Entries 24
Mean 0.02066
Std Dev 0.883
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

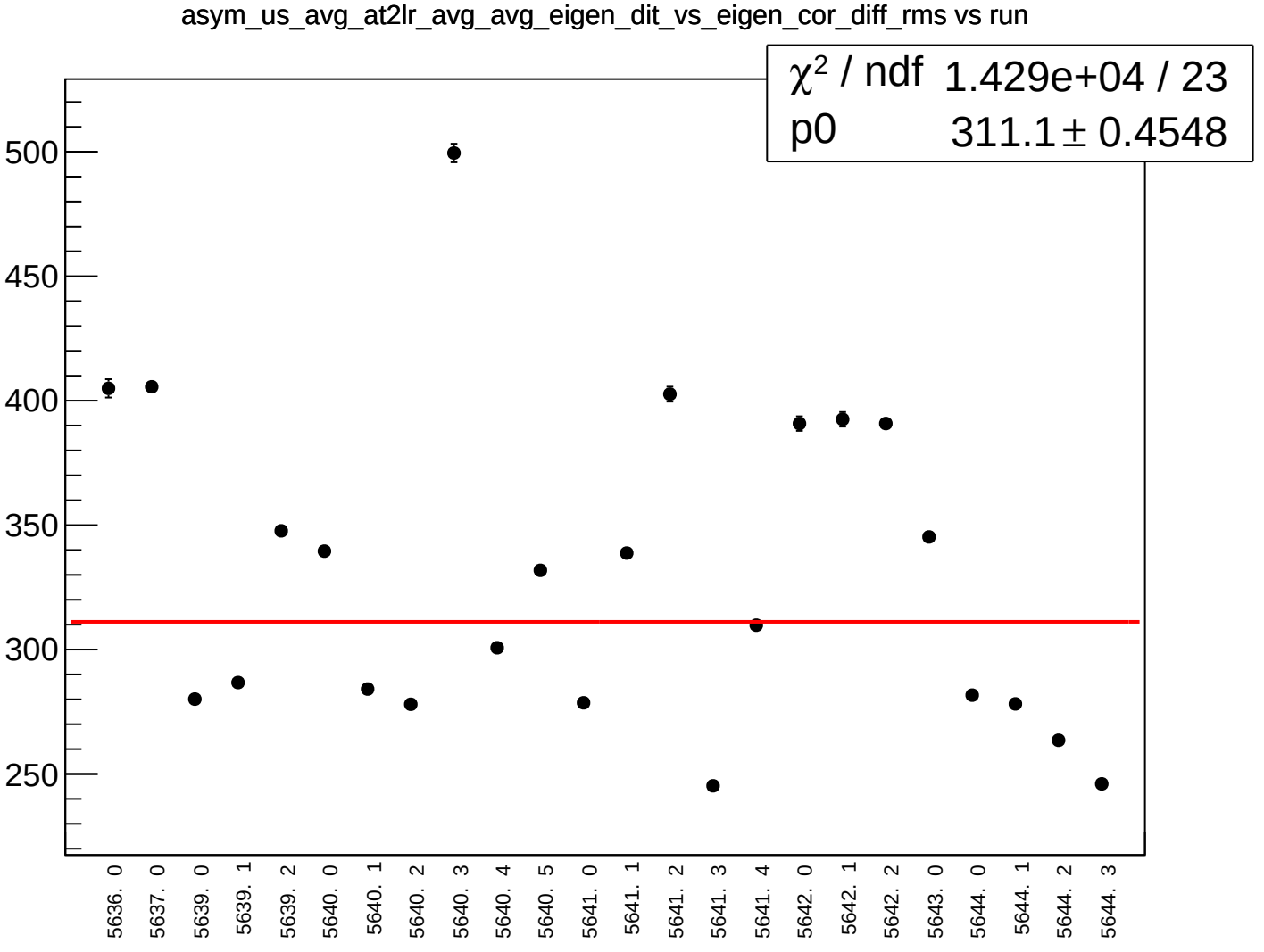

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1555 / 23
p0 0.02633 ± 3.798e–05
0.031
0.03
0.029
0.028
0.027
0.026
0.025
0.024
0.023
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

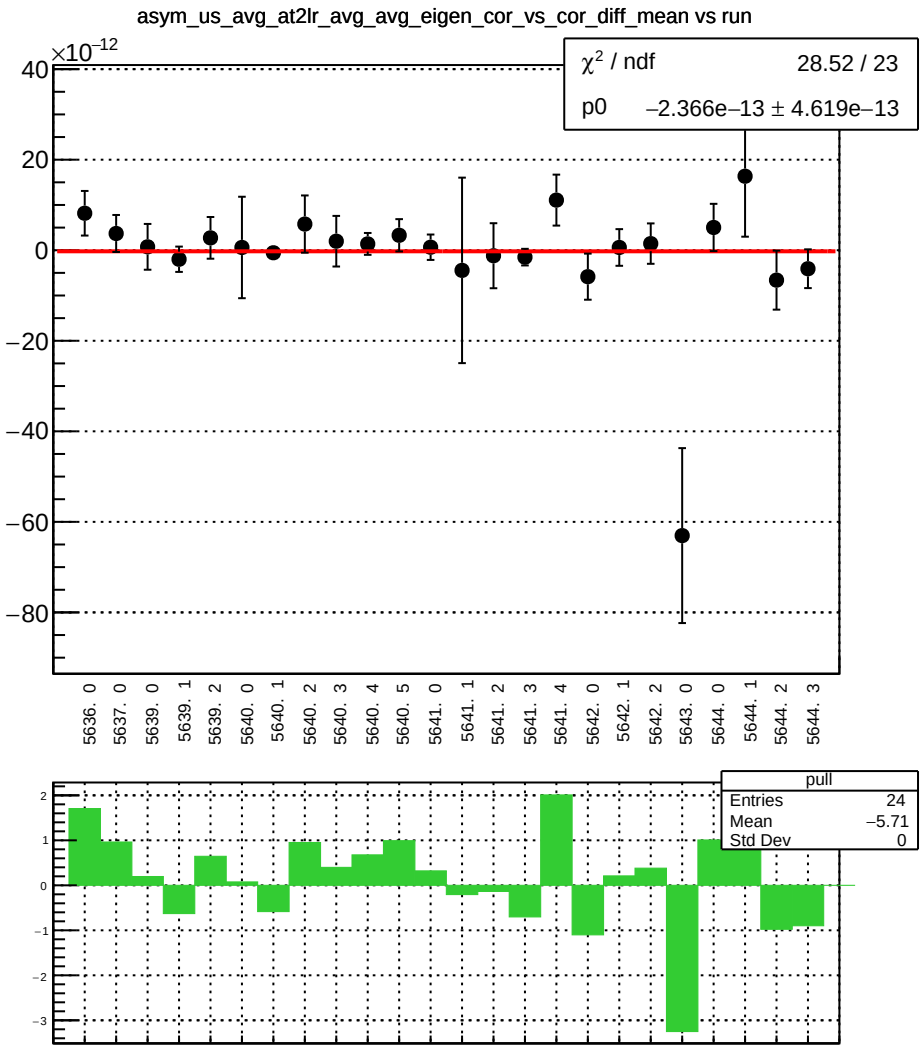

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 24.65 / 23
p0 −1.113 ± 0.6432
10
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 36.88
Std Dev 0
2
1
0
−1
−2
−3

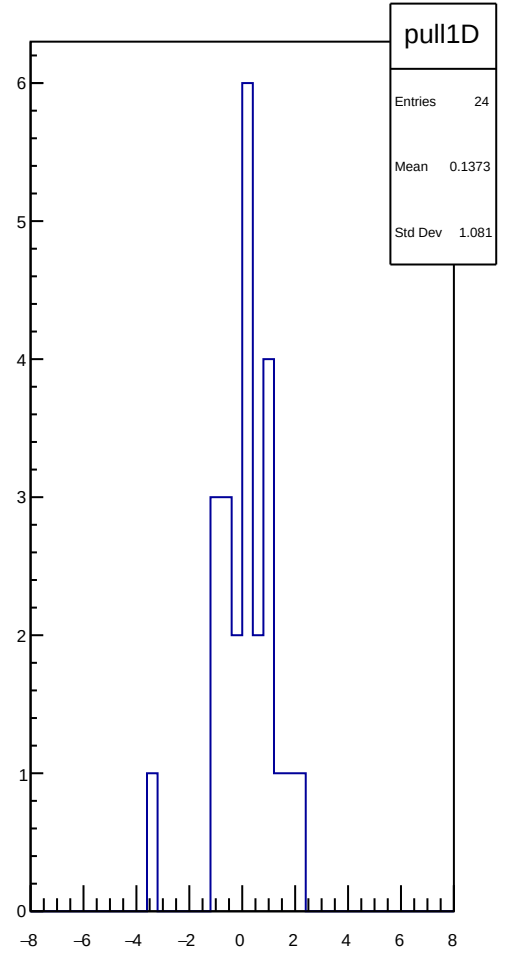

pull1D
Entries 24
Mean −0.02172
Std Dev 1.013
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

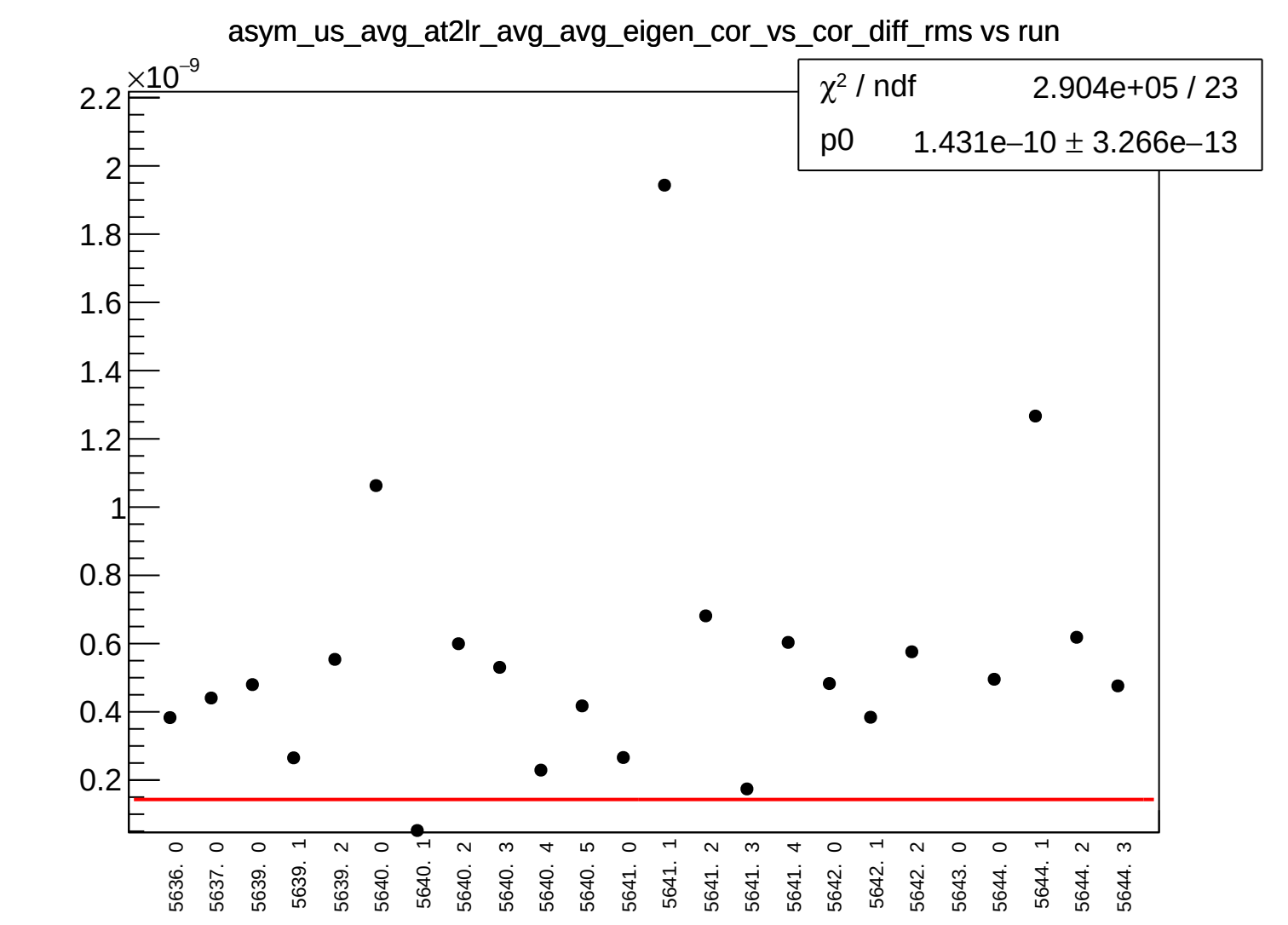

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.429e+04 / 23
p0 311.1 ± 0.4548
500
450
400
350
300
250
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

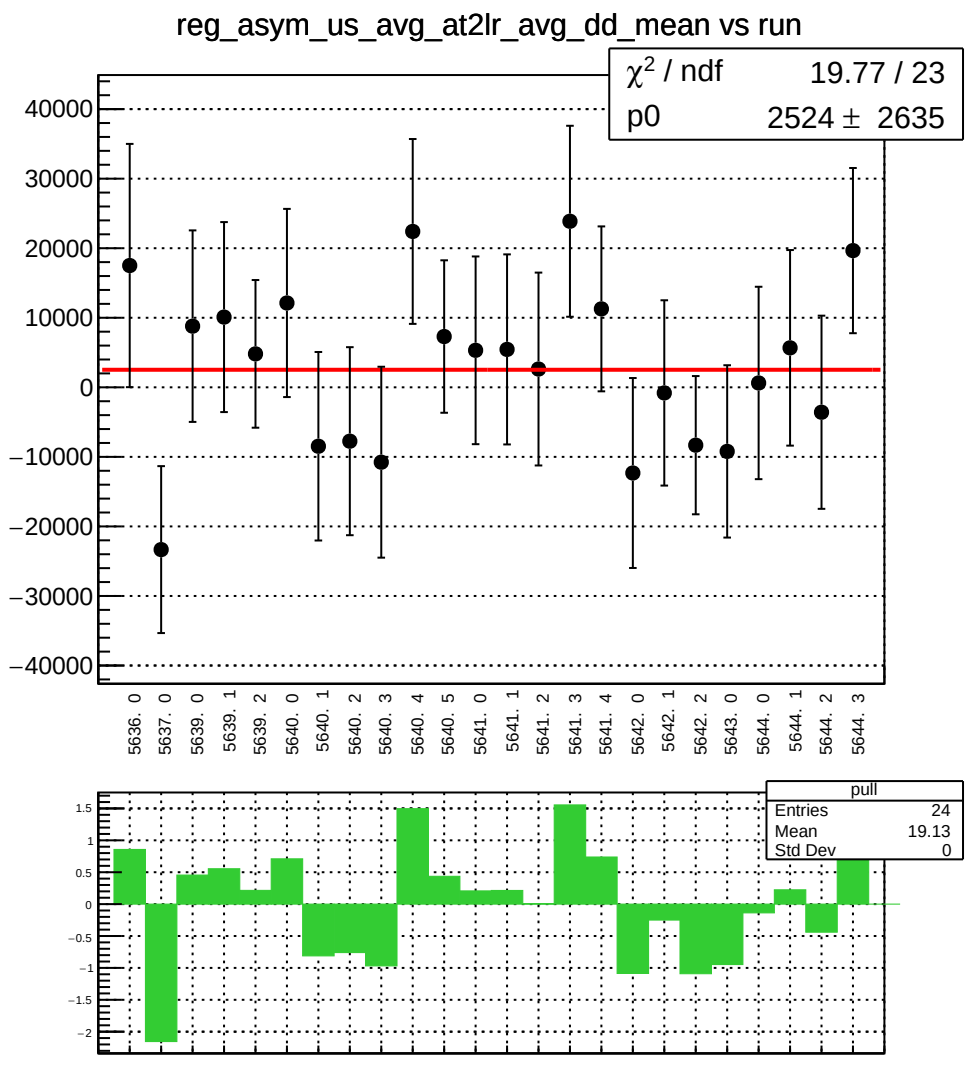

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.65 / 23
p0 −1.113 ± 0.6432
10
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 36.88
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean −0.02172
Std Dev 1.013
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

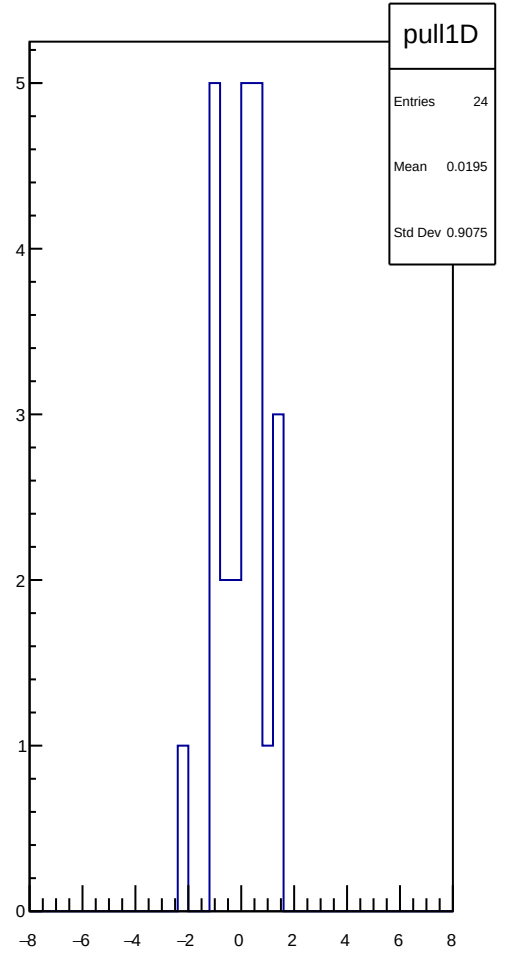

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.429e+04 / 23
p0 311.1 ± 0.4548
500
450
400
350
300
250
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

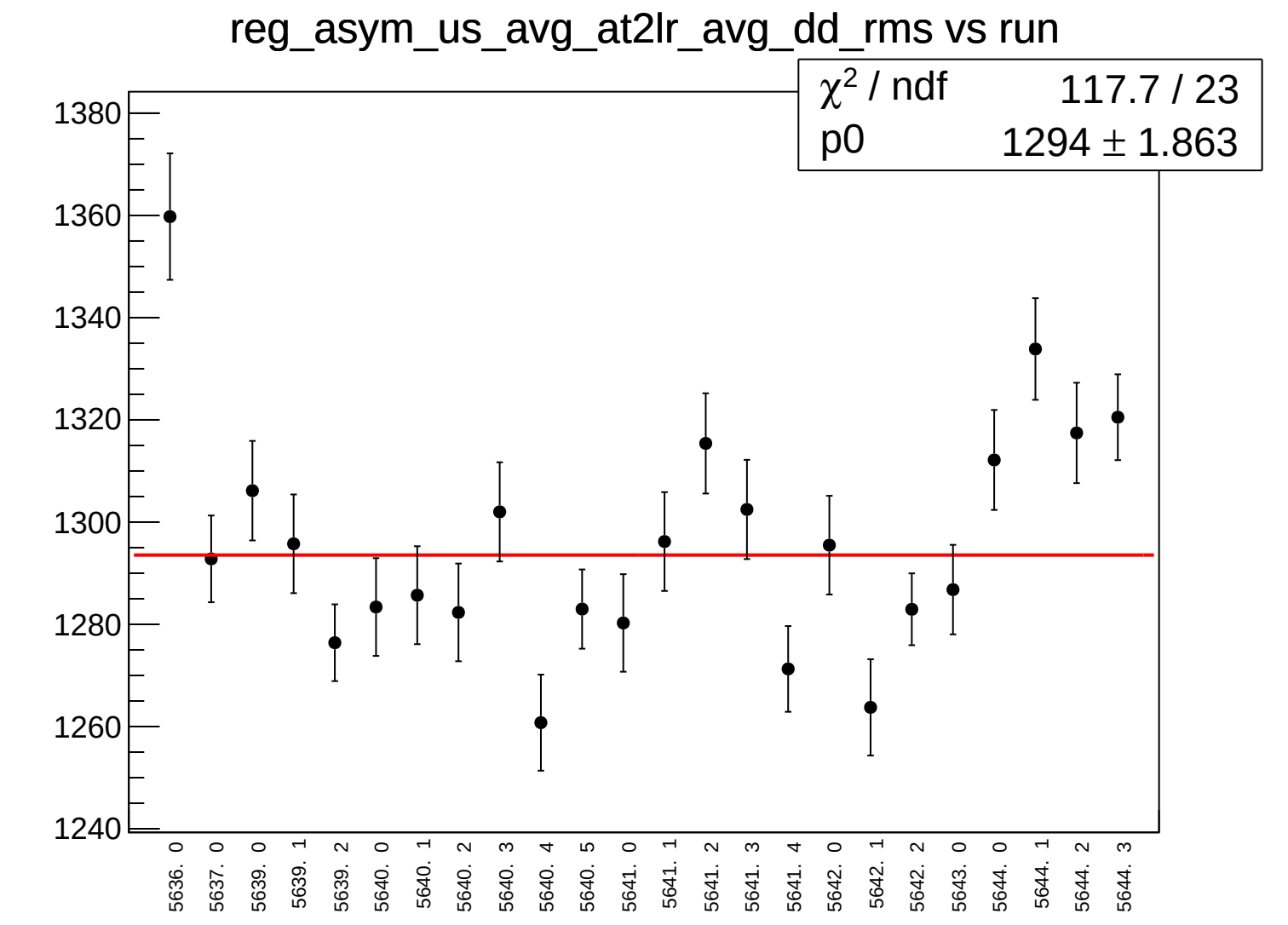

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 28.52 / 23
p0 −2.366e−13 ± 4.619e−13
40
20
0
−20
−40
−60
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −5.71
Std Dev 0
2
1
0
−1
−2
−3

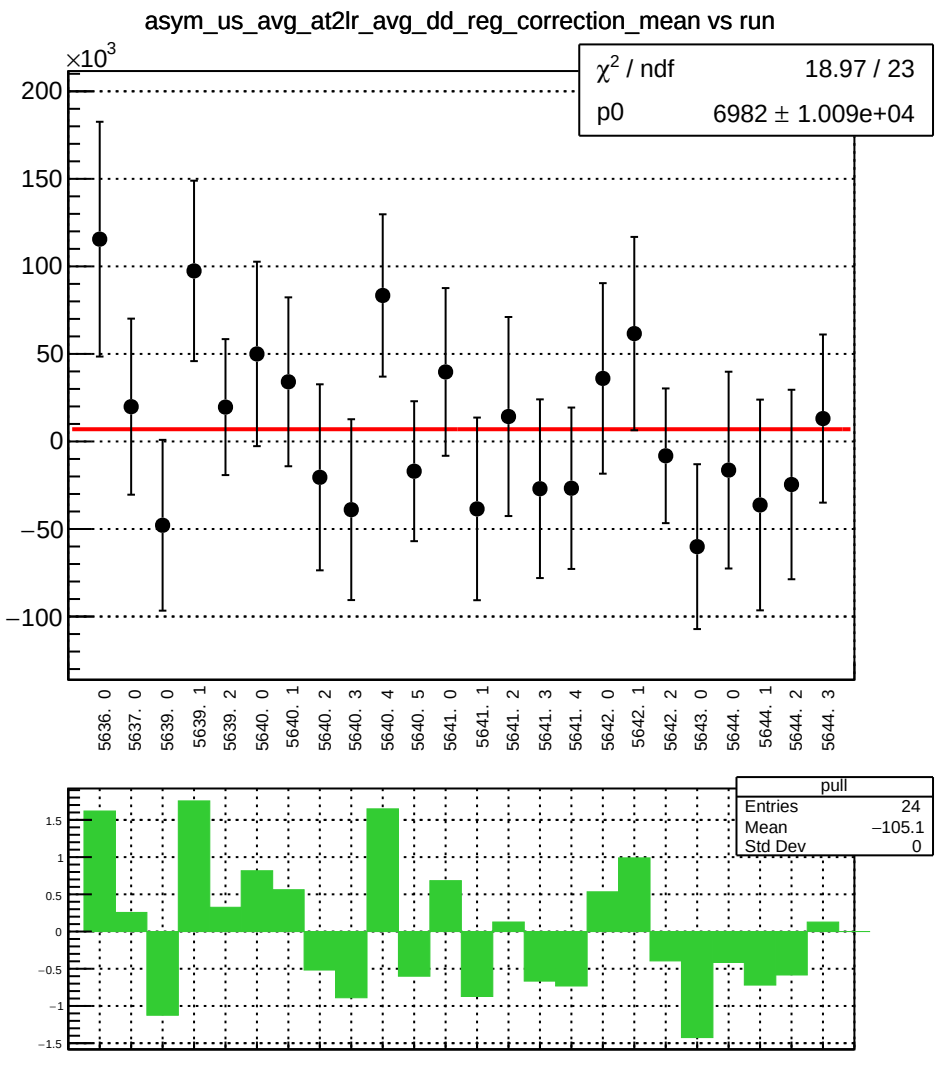

pull1D
Entries 24
Mean 0.1373
Std Dev 1.081
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

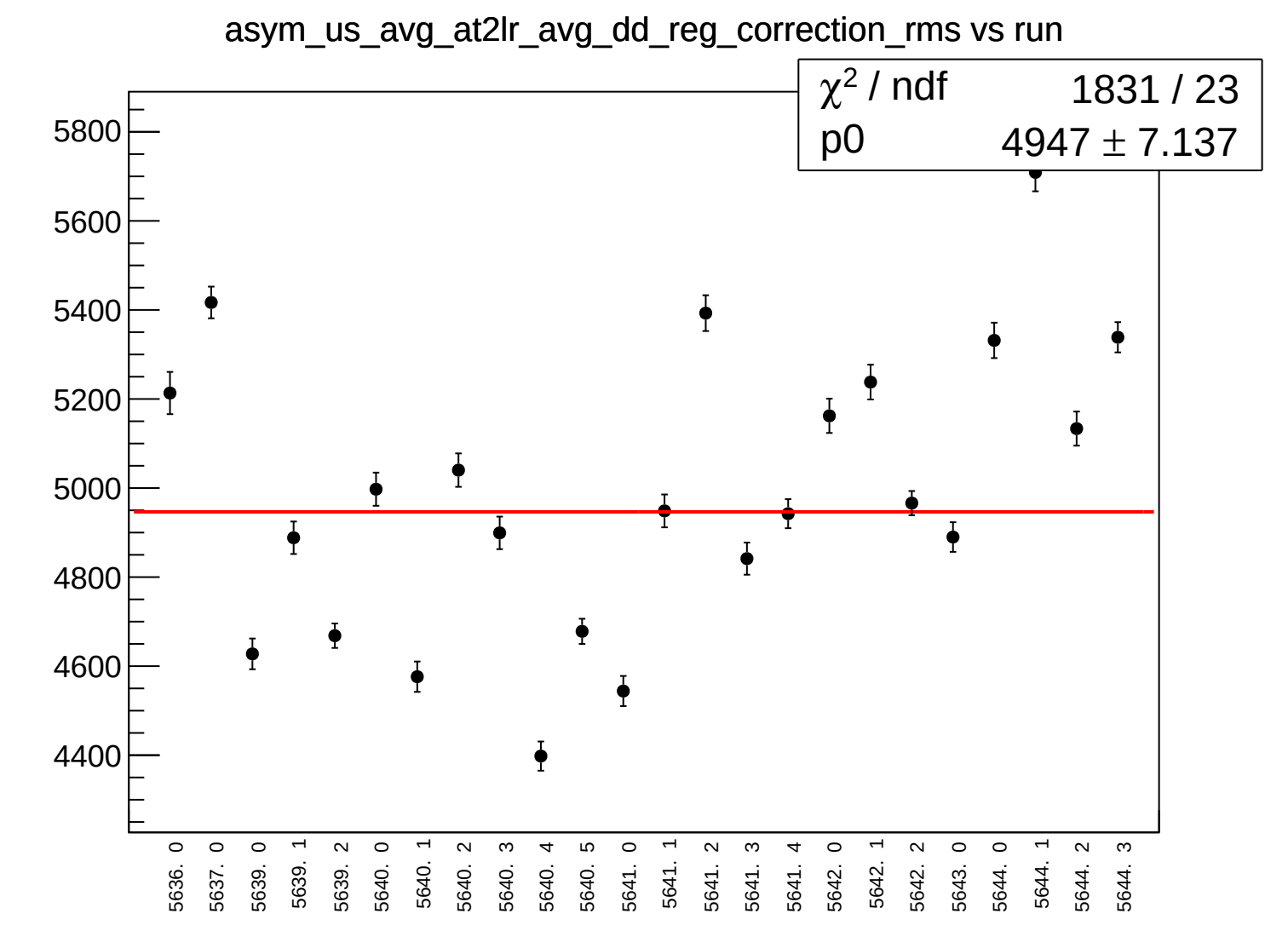

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.904e+05 / 23
p0 1.431e−10 ± 3.266e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

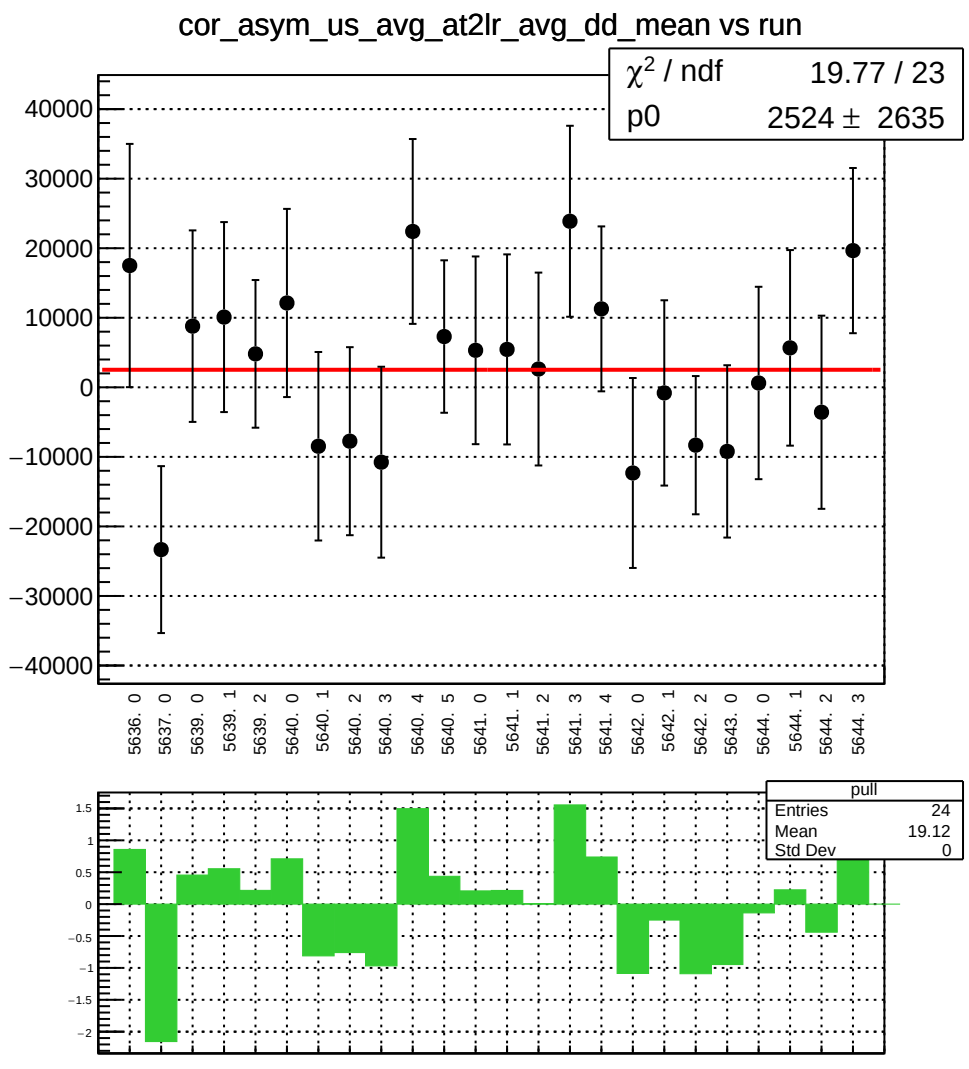

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 19.77 / 23
p0 2524 ± 2635
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 19.13
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

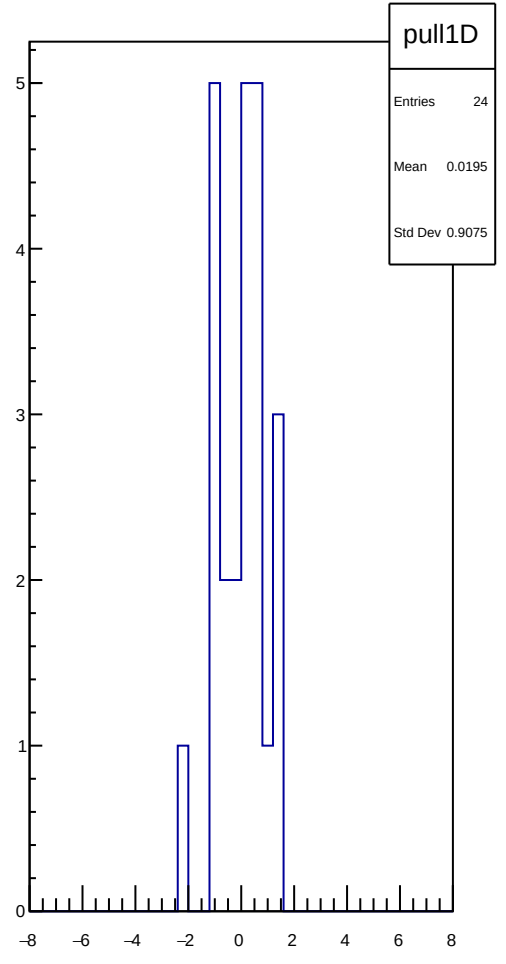

pull1D
Entries 24
Mean 0.0195
Std Dev 0.9075
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

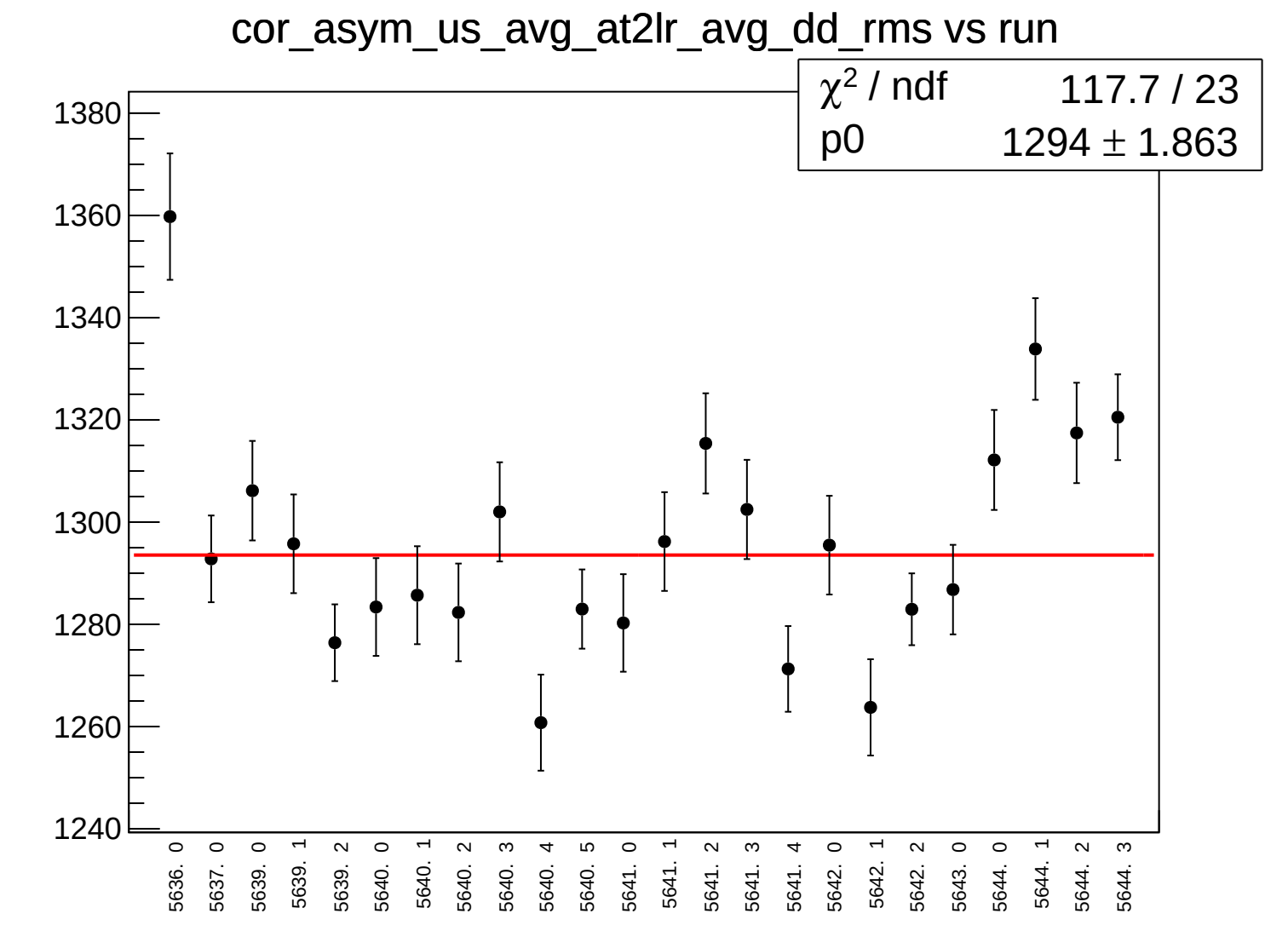

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 117.7 / 23
p0 1294 ± 1.863
1380
1360
1340
1320
1300
1280
1260
1240
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

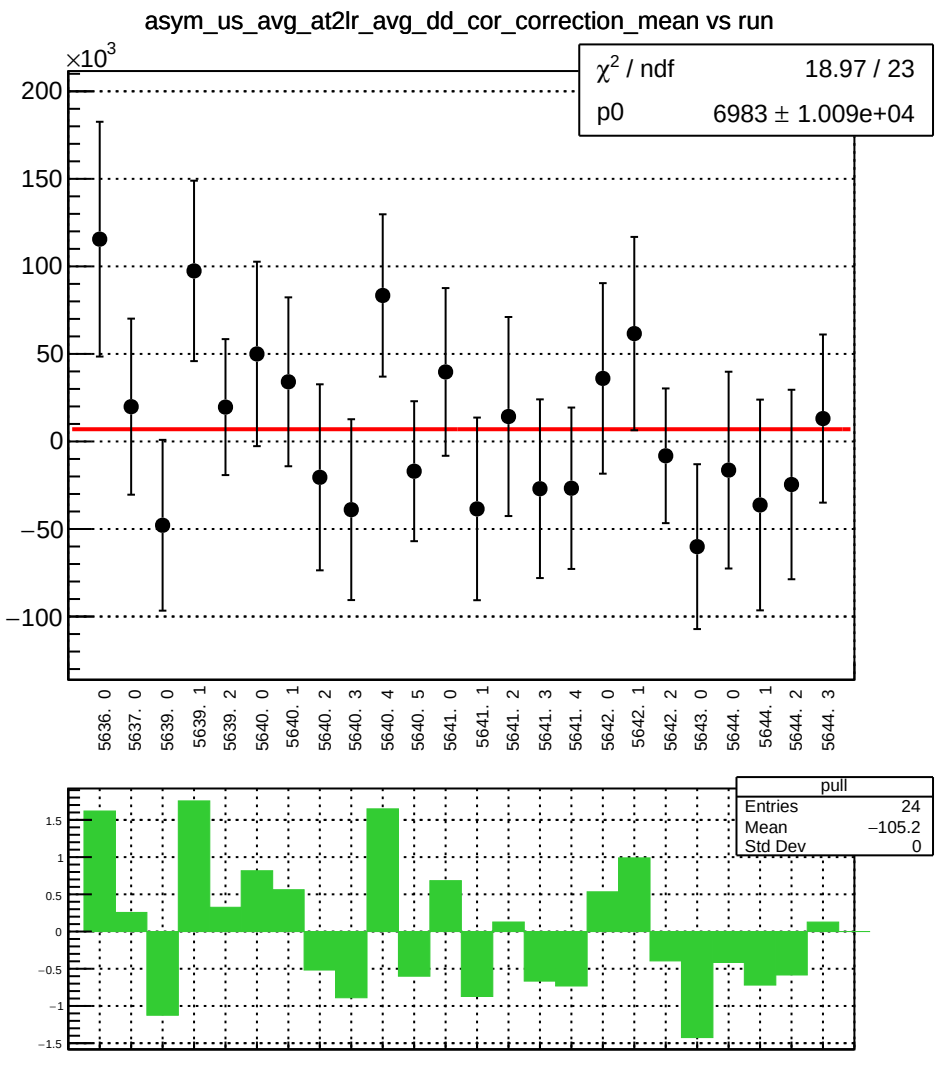

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 18.97 / 23
p0 6982 ± 1.009e+04
200
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −105.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.02113
Std Dev 0.8888
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

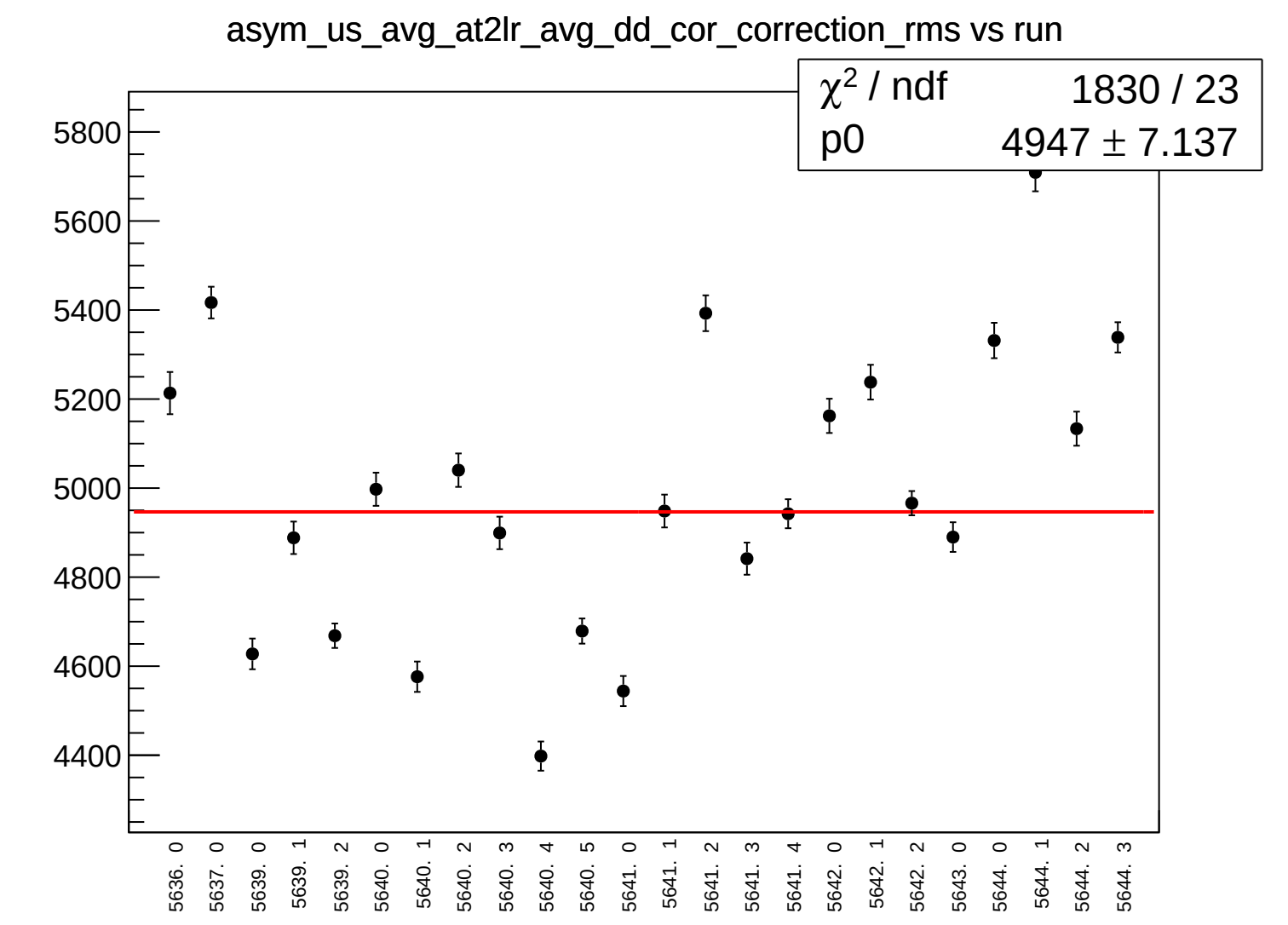

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 1831 / 23
p0 4947 ± 7.137
5800
5600
5400
5200
5000
4800
4600
4400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

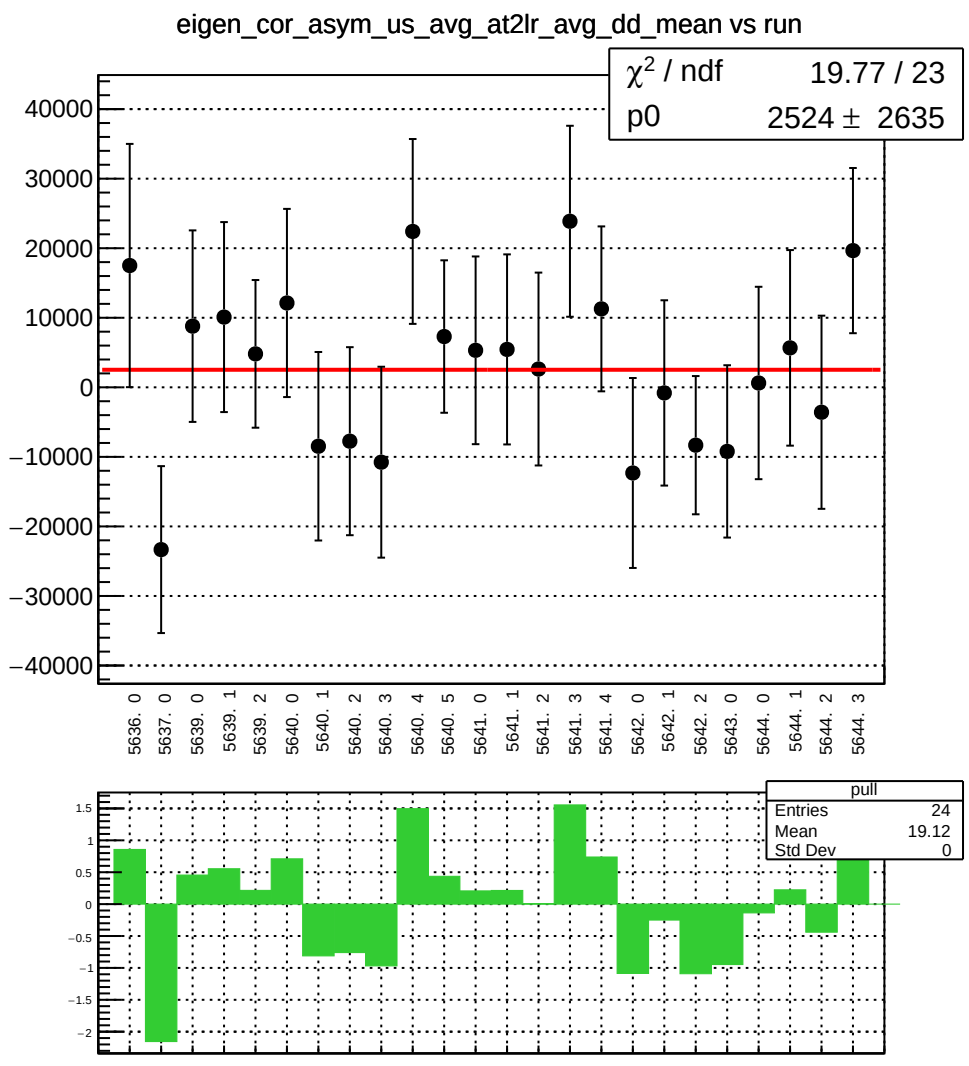

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 19.77 / 23
p0 2524 ± 2635
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 19.12
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

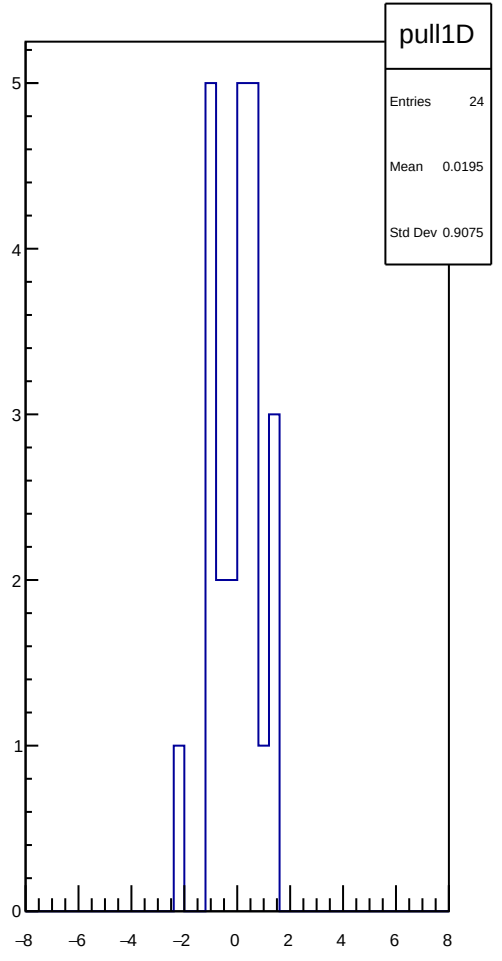

pull1D
Entries 24
Mean 0.0195
Std Dev 0.9075
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

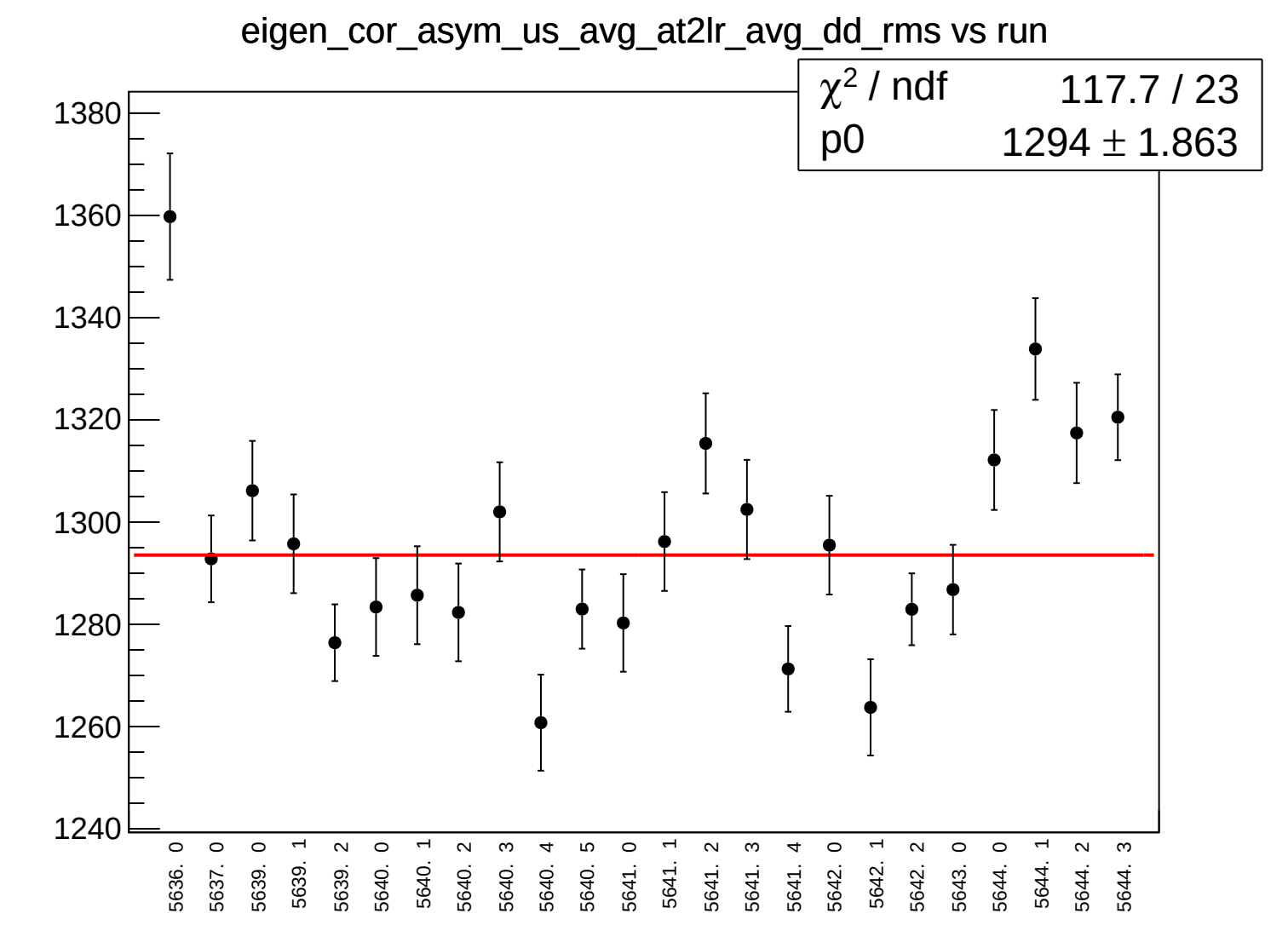

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 117.7 / 23
p0 1294 ± 1.863
1380
1360
1340
1320
1300
1280
1260
1240
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

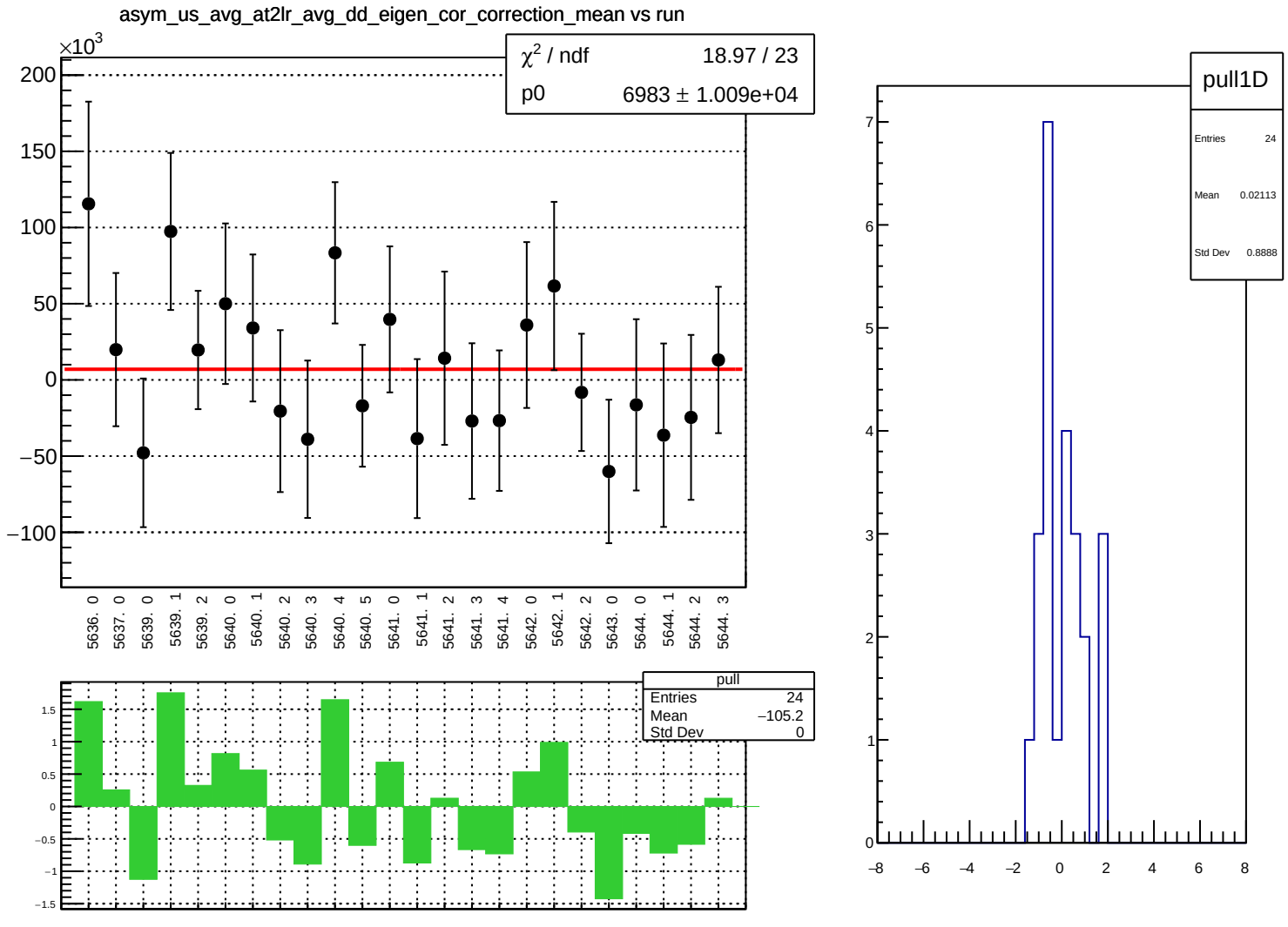

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 18.97 / 23
p0 6983 ± 1.009e+04
200
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −105.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.02113
Std Dev 0.8888
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

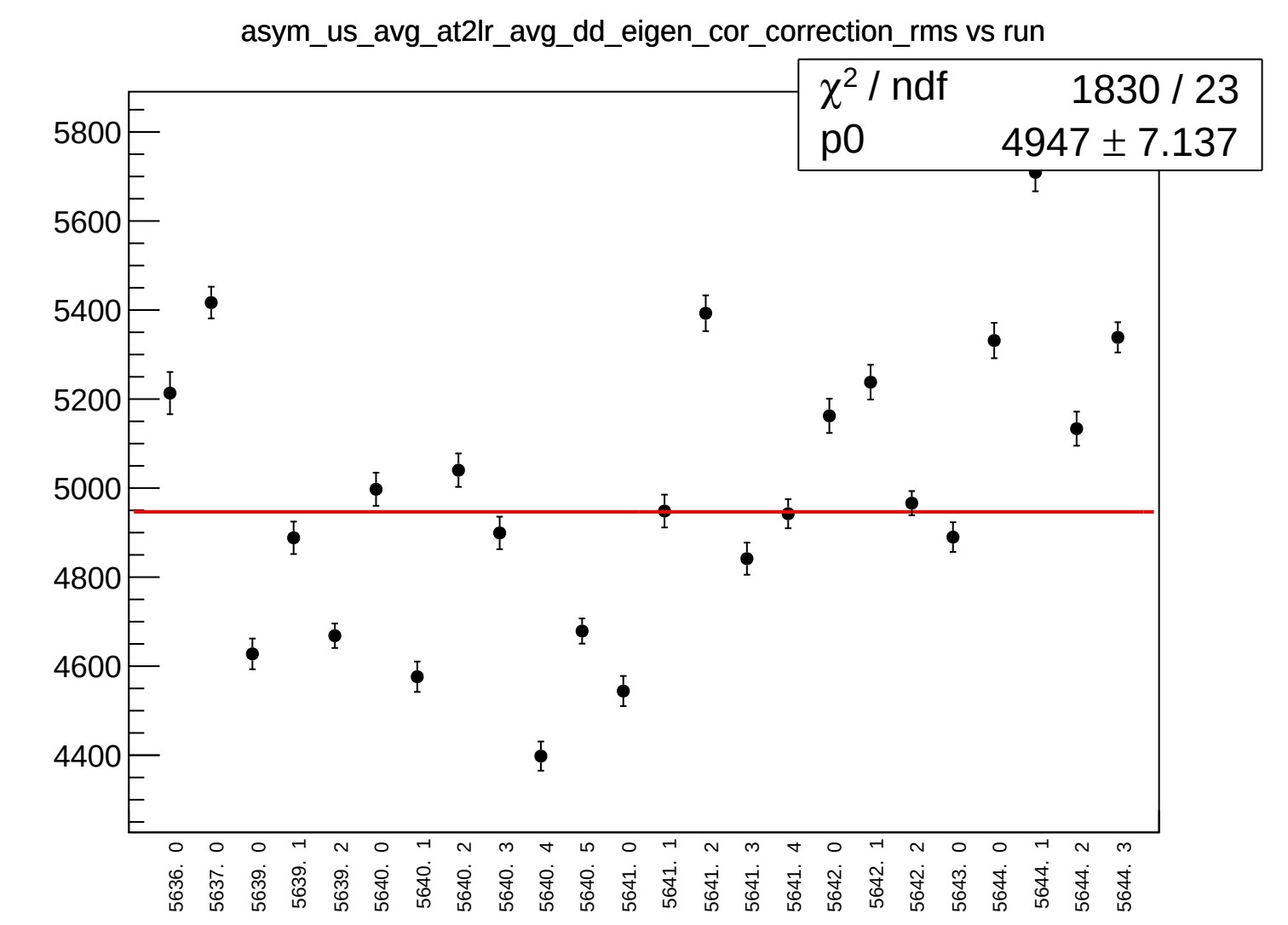

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 1830 / 23
p0 4947 ± 7.137
5800
5600
5400
5200
5000
4800
4600
4400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

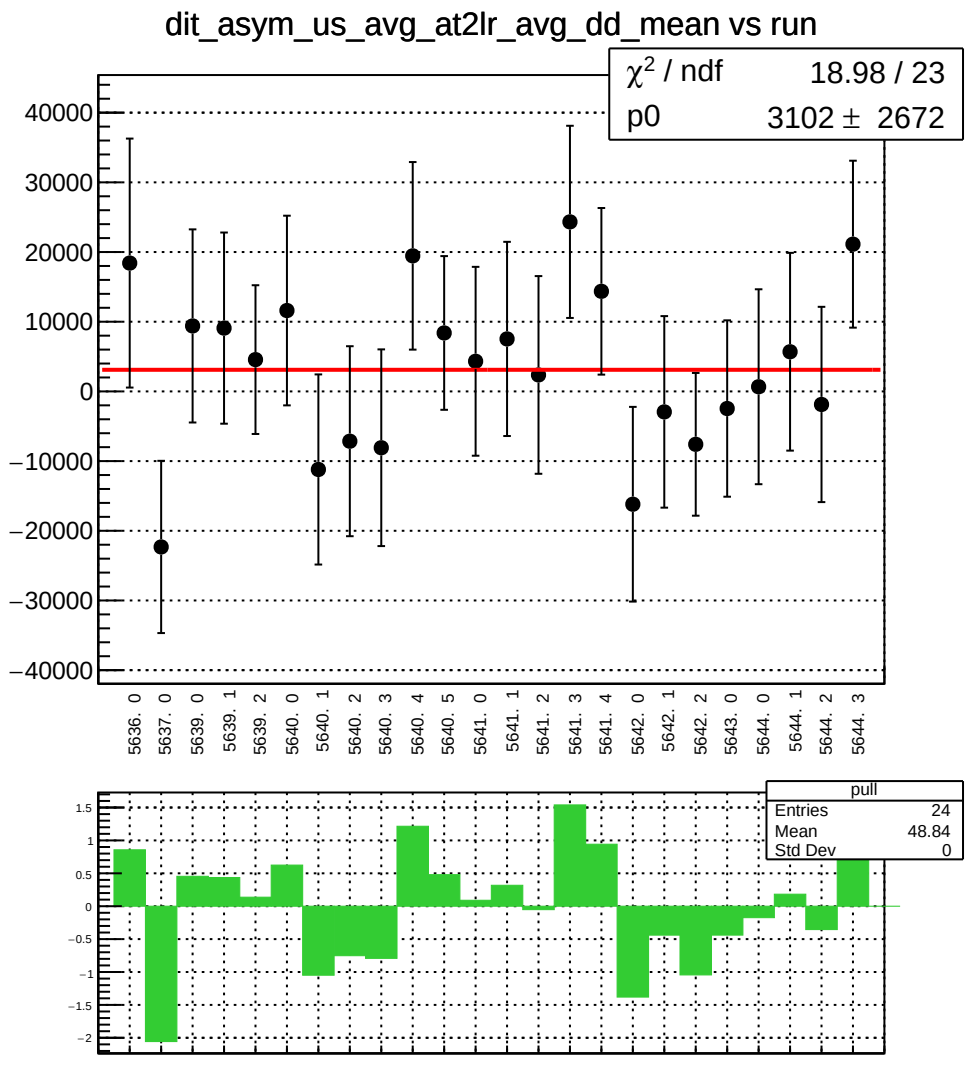

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 19.77 / 23
p0 2524 ± 2635
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 19.12
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

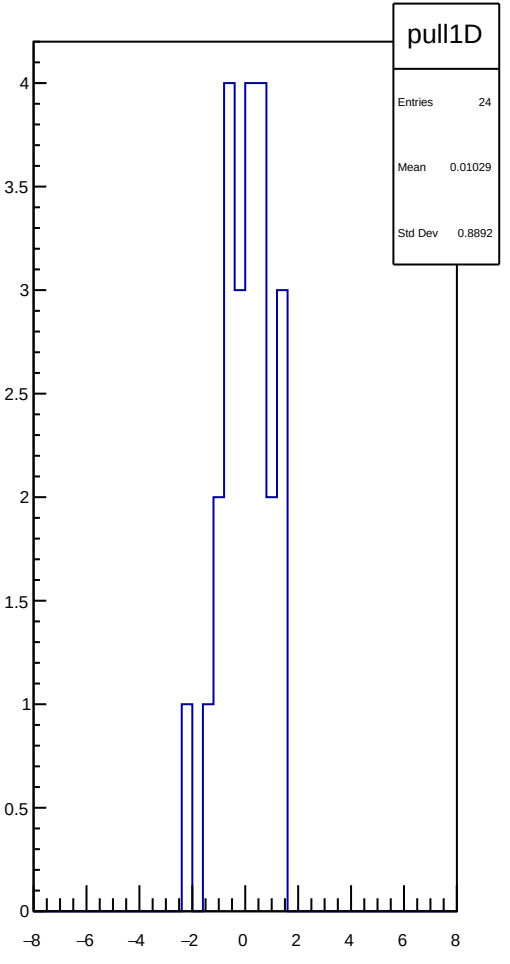

pull1D
Entries 24
Mean 0.0195
Std Dev 0.9075
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

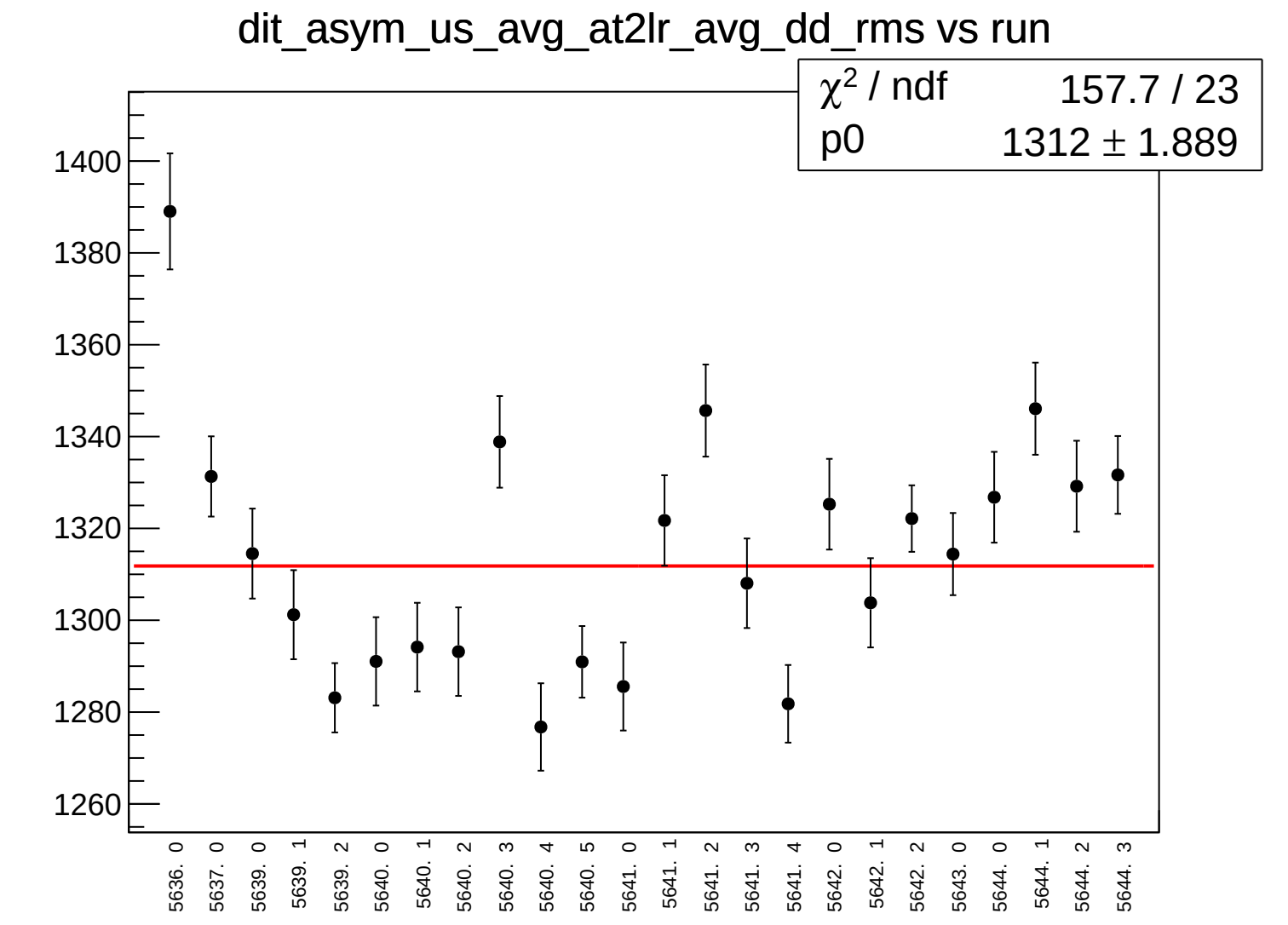

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 117.7 / 23
p0 1294 ± 1.863
1380
1360
1340
1320
1300
1280
1260
1240
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

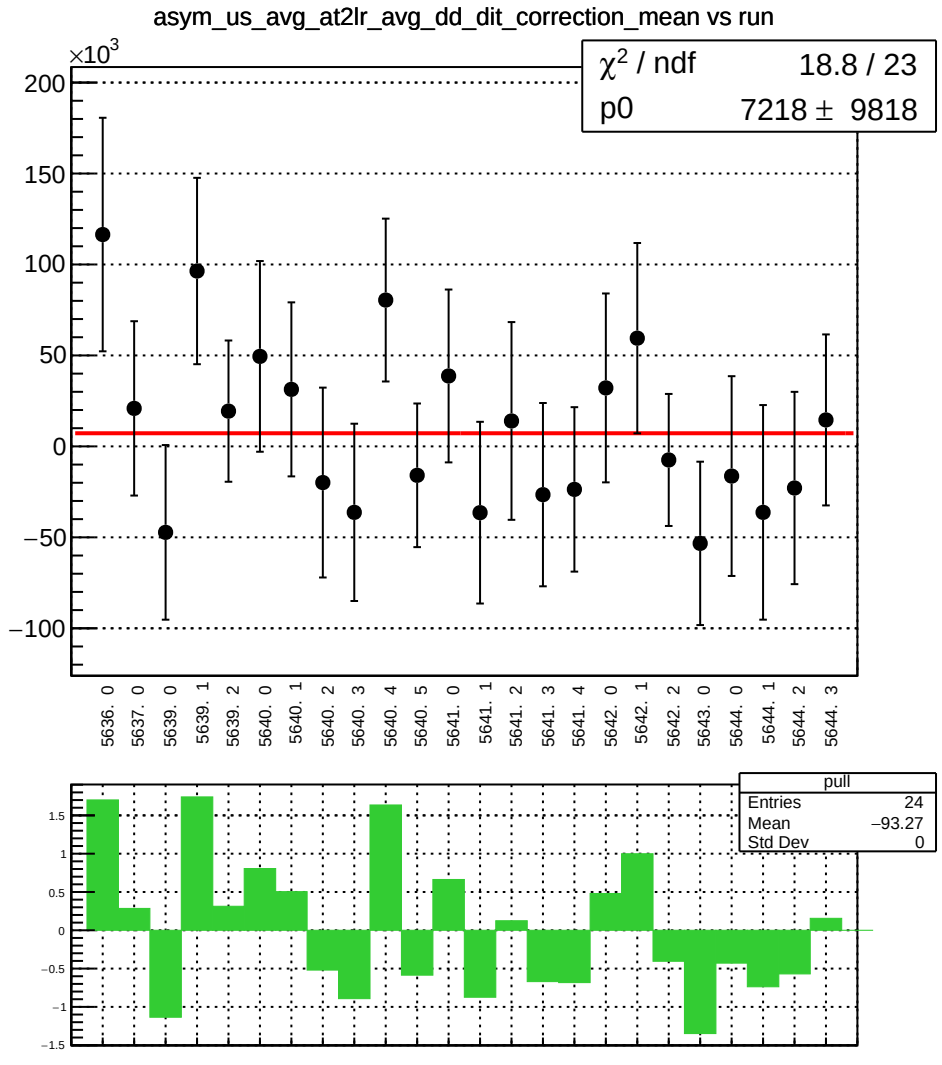

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 18.97 / 23
p0 6983 ± 1.009e+04
200
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −105.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.02113
Std Dev 0.8888
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

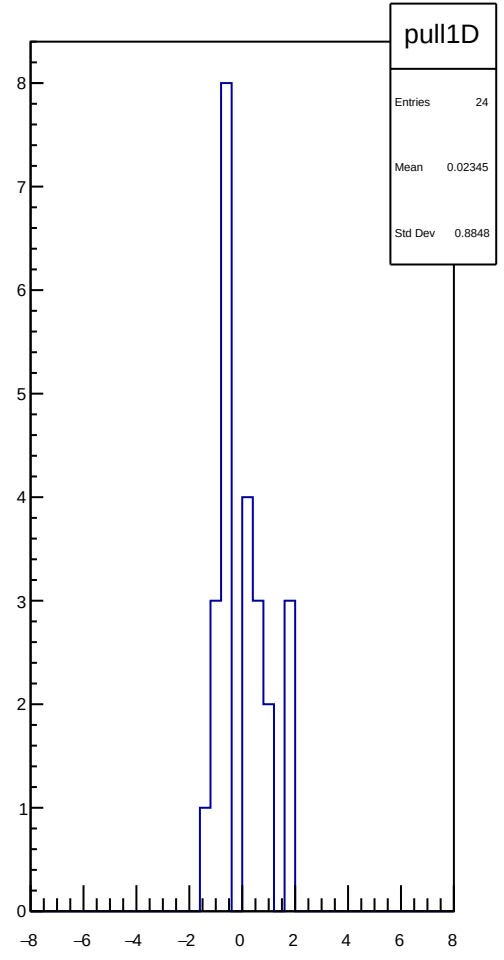

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1830 / 23
p0 4947 ± 7.137
5800
5600
5400
5200
5000
4800
4600
4400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

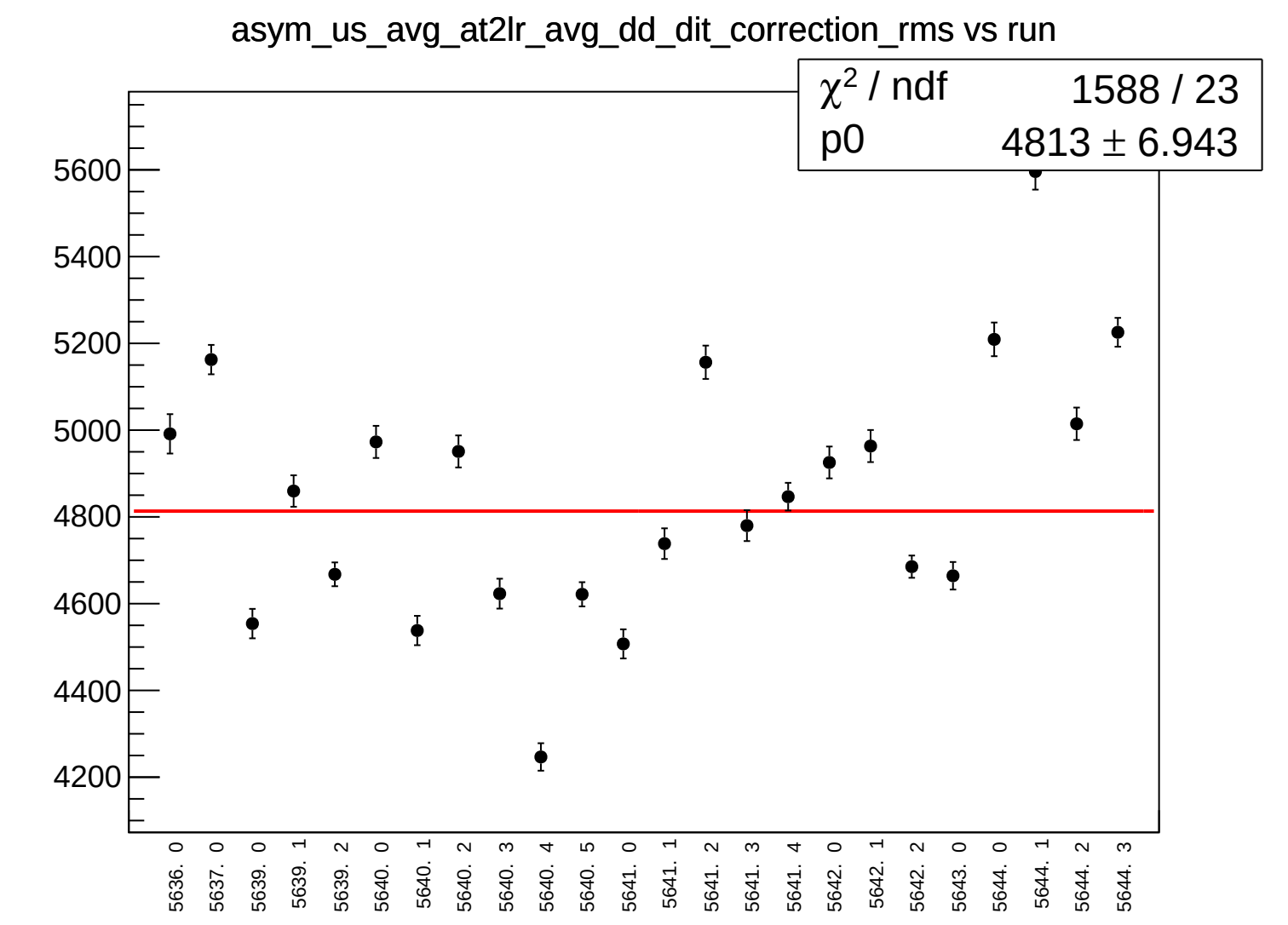

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 18.98 / 23
p0 3102 ± 2672
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 48.84
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

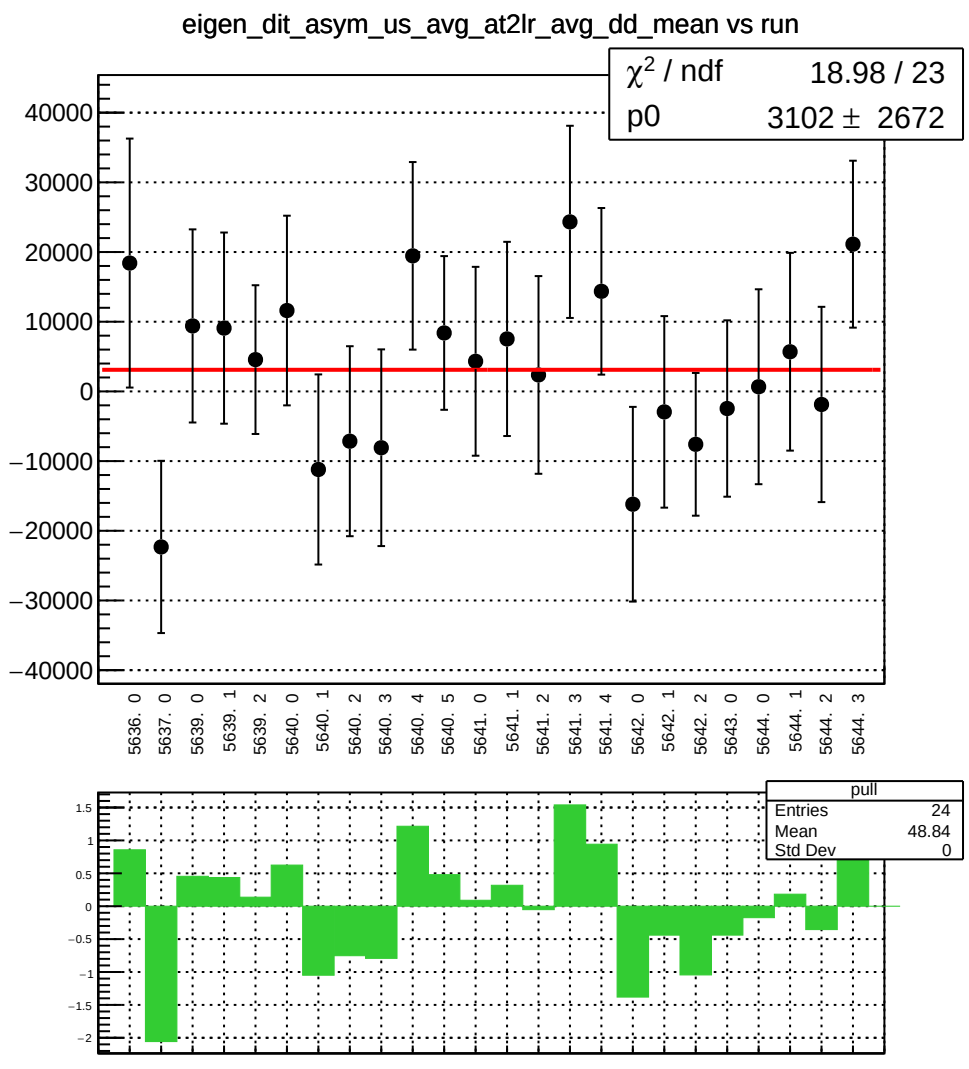

pull1D
Entries 24
Mean 0.01029
Std Dev 0.8892
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

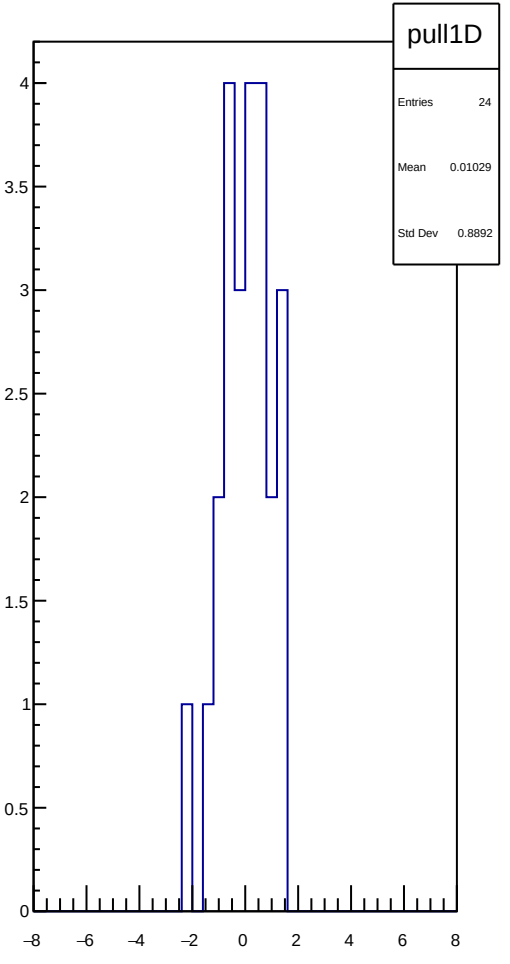

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 157.7 / 23
p0 1312 ± 1.889
1400
1380
1360
1340
1320
1300
1280
1260
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

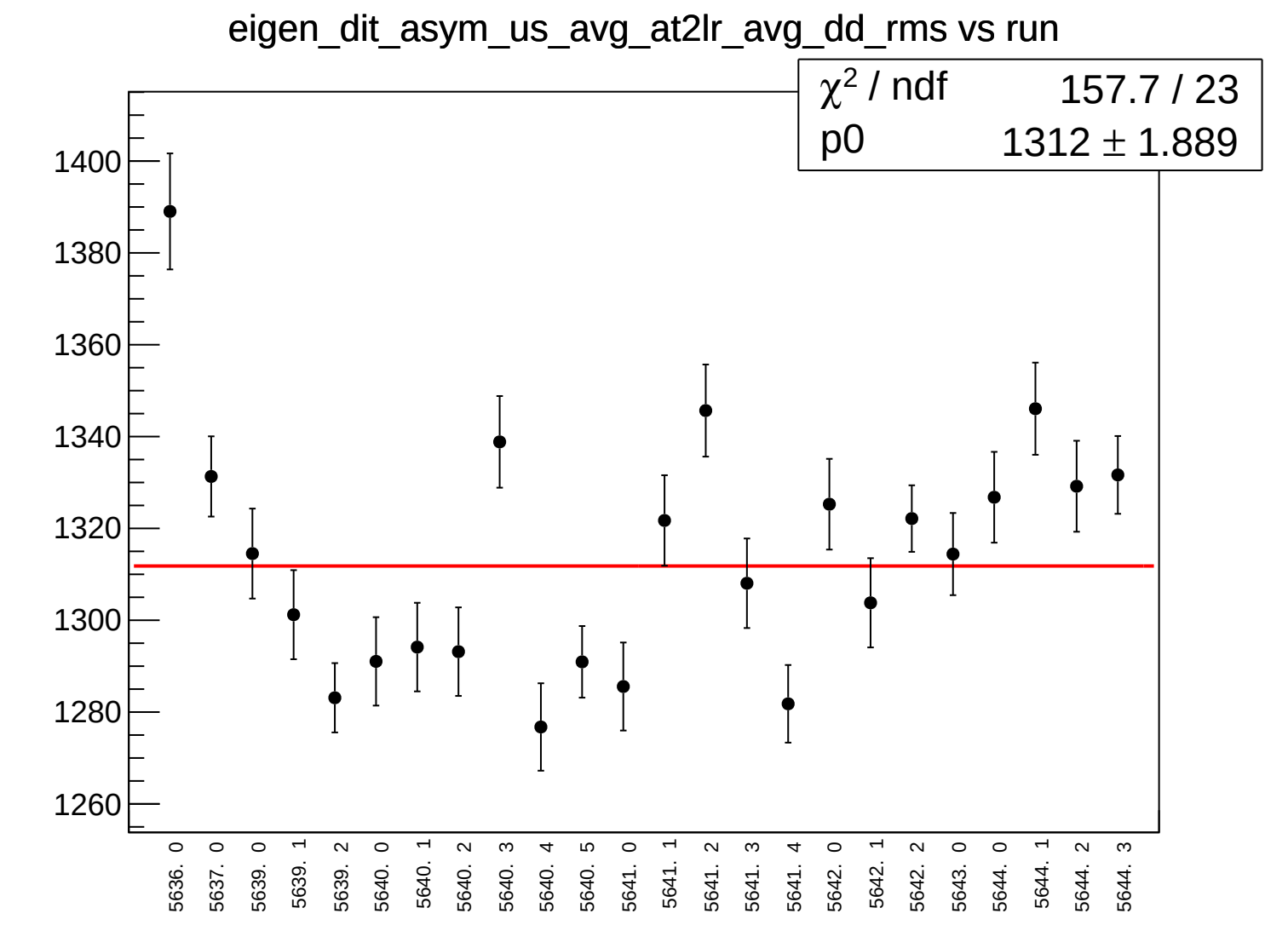

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 18.8 / 23
p0 7218 ± 9818
200
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −93.27
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

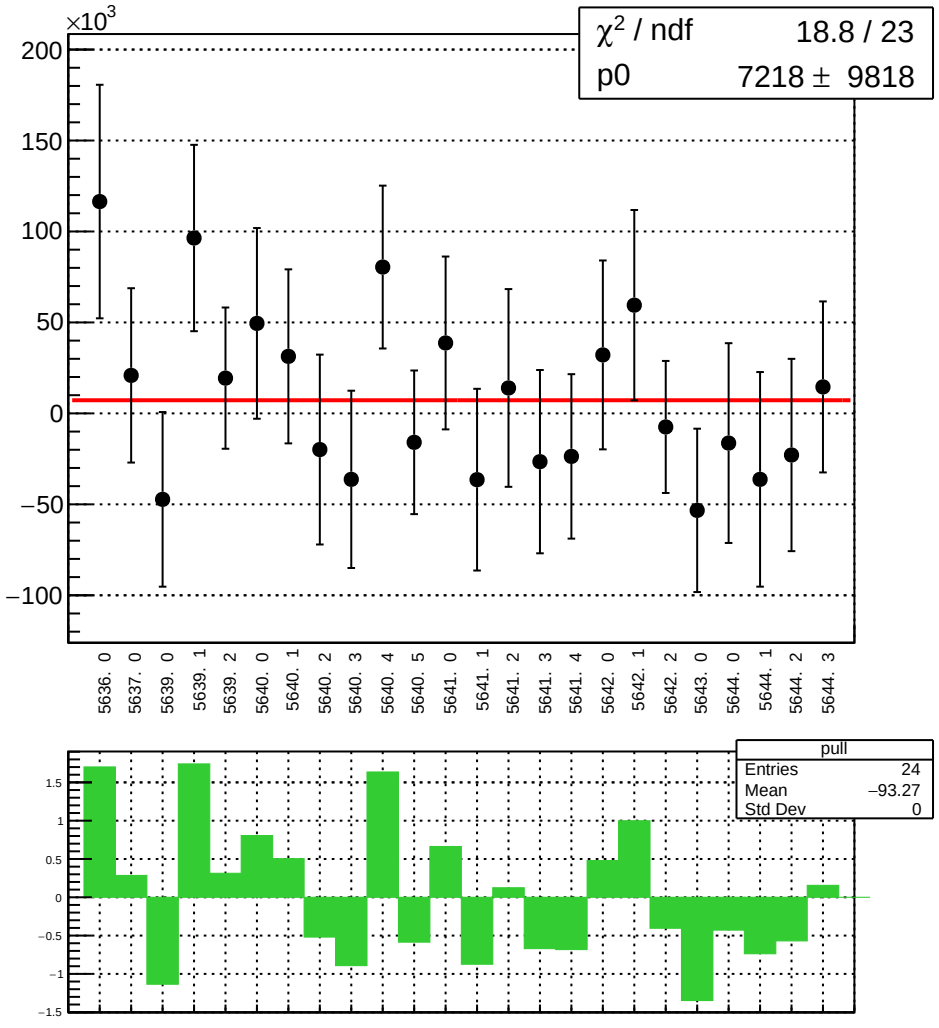

pull1D
Entries 24
Mean 0.02345
Std Dev 0.8848
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

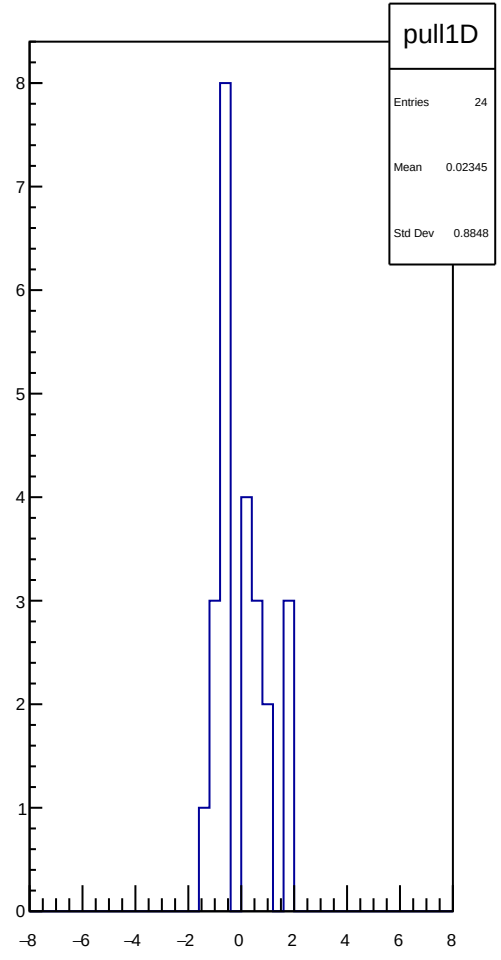

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 1588 / 23
p0 4813 ± 6.943
5600
5400
5200
5000
4800
4600
4400
4200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

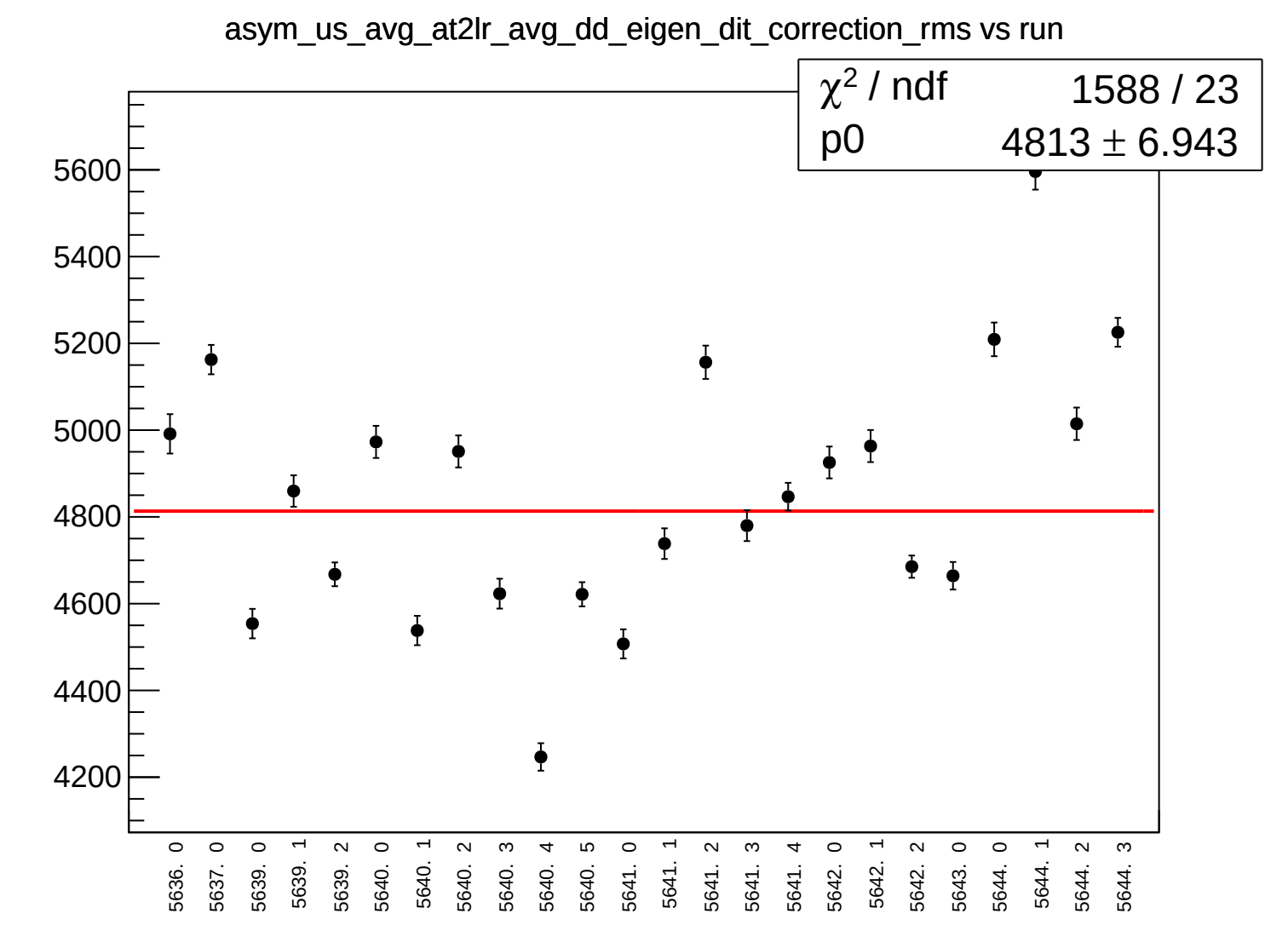

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 18.98 / 23
p0 3102 ± 2672
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 48.84
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

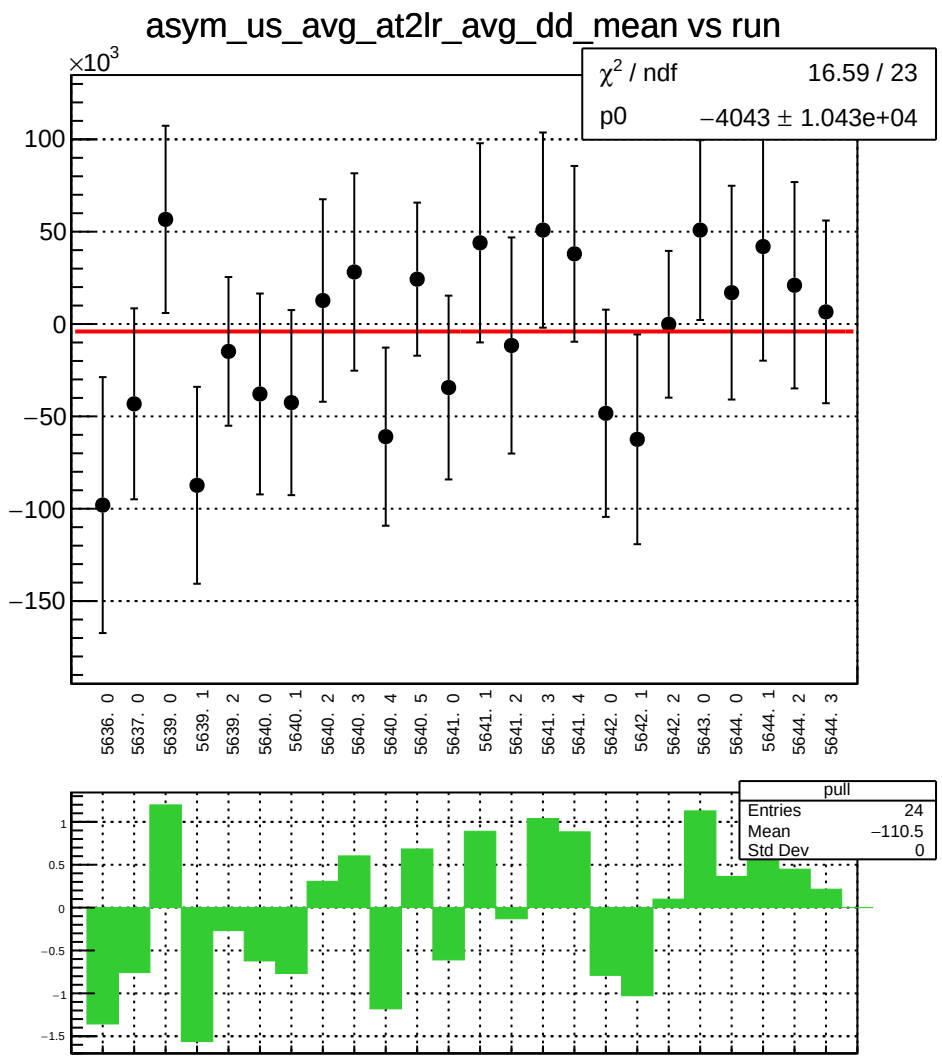

pull1D
Entries 24
Mean 0.01029
Std Dev 0.8892
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

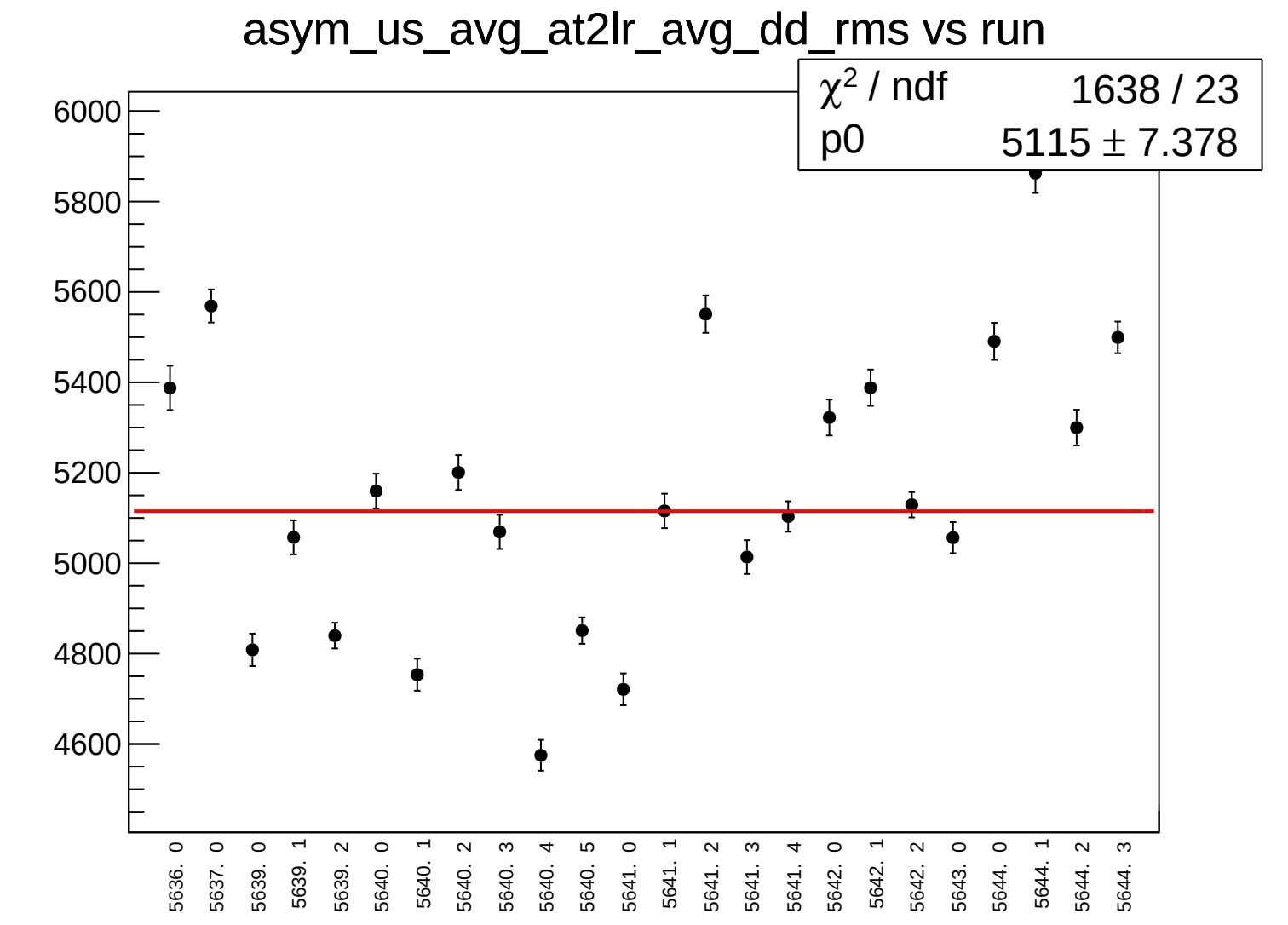

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 157.7 / 23
p0 1312 ± 1.889
1400
1380
1360
1340
1320
1300
1280
1260
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

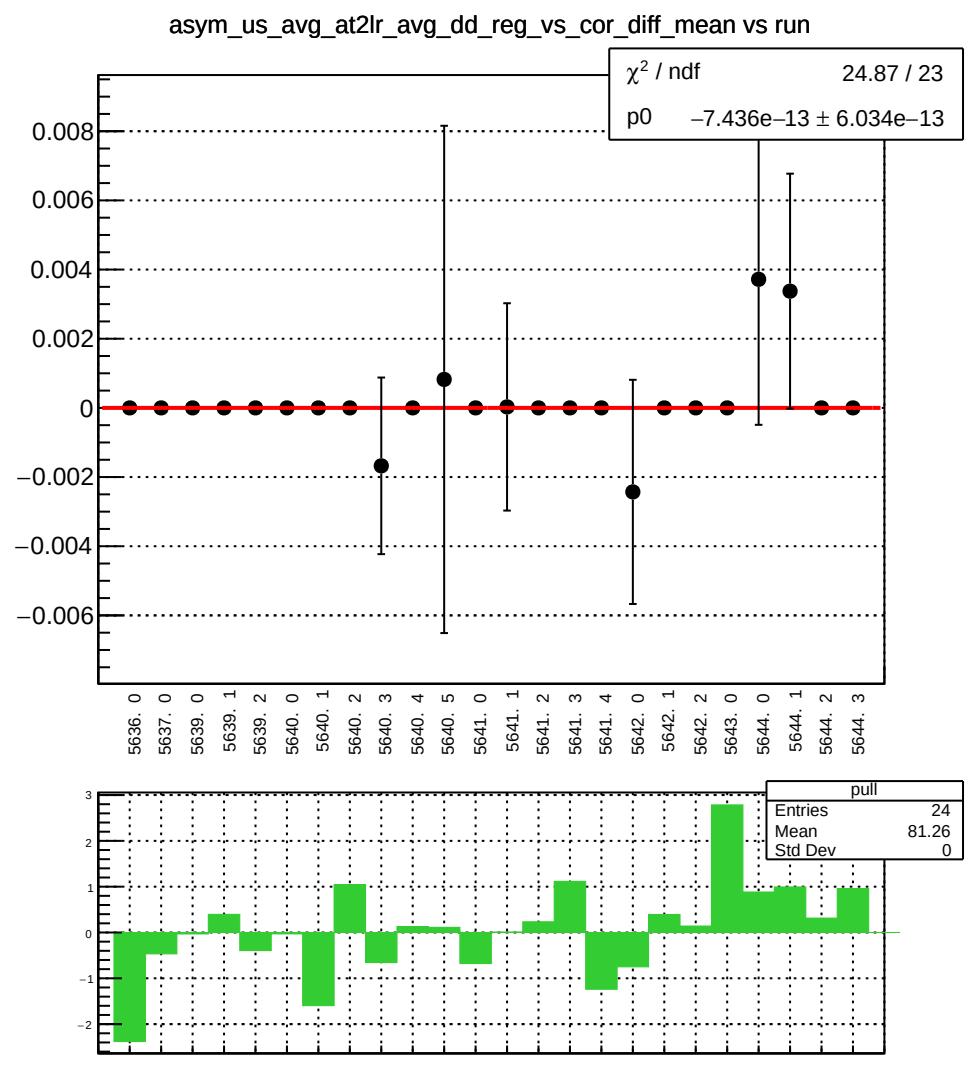

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 18.8 / 23
p0 7218 ± 9818
200
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −93.27
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

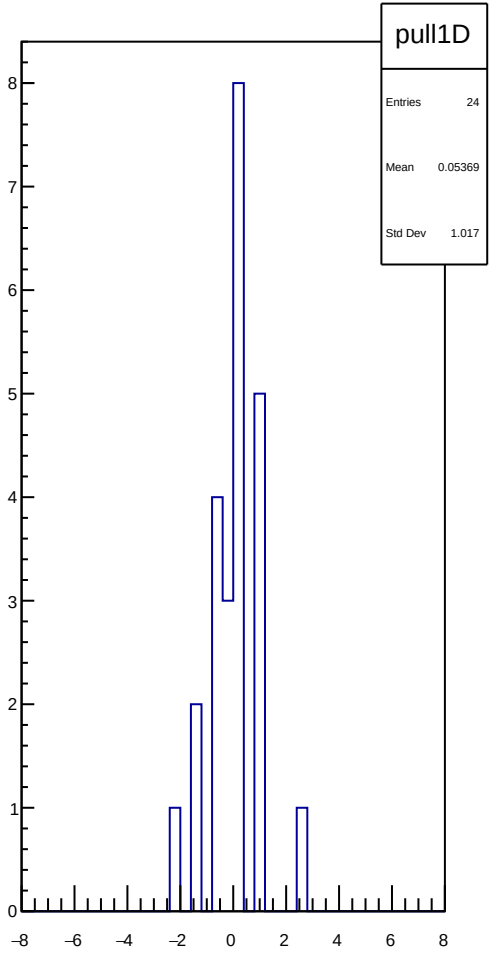

pull1D
Entries 24
Mean 0.02345
Std Dev 0.8848
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

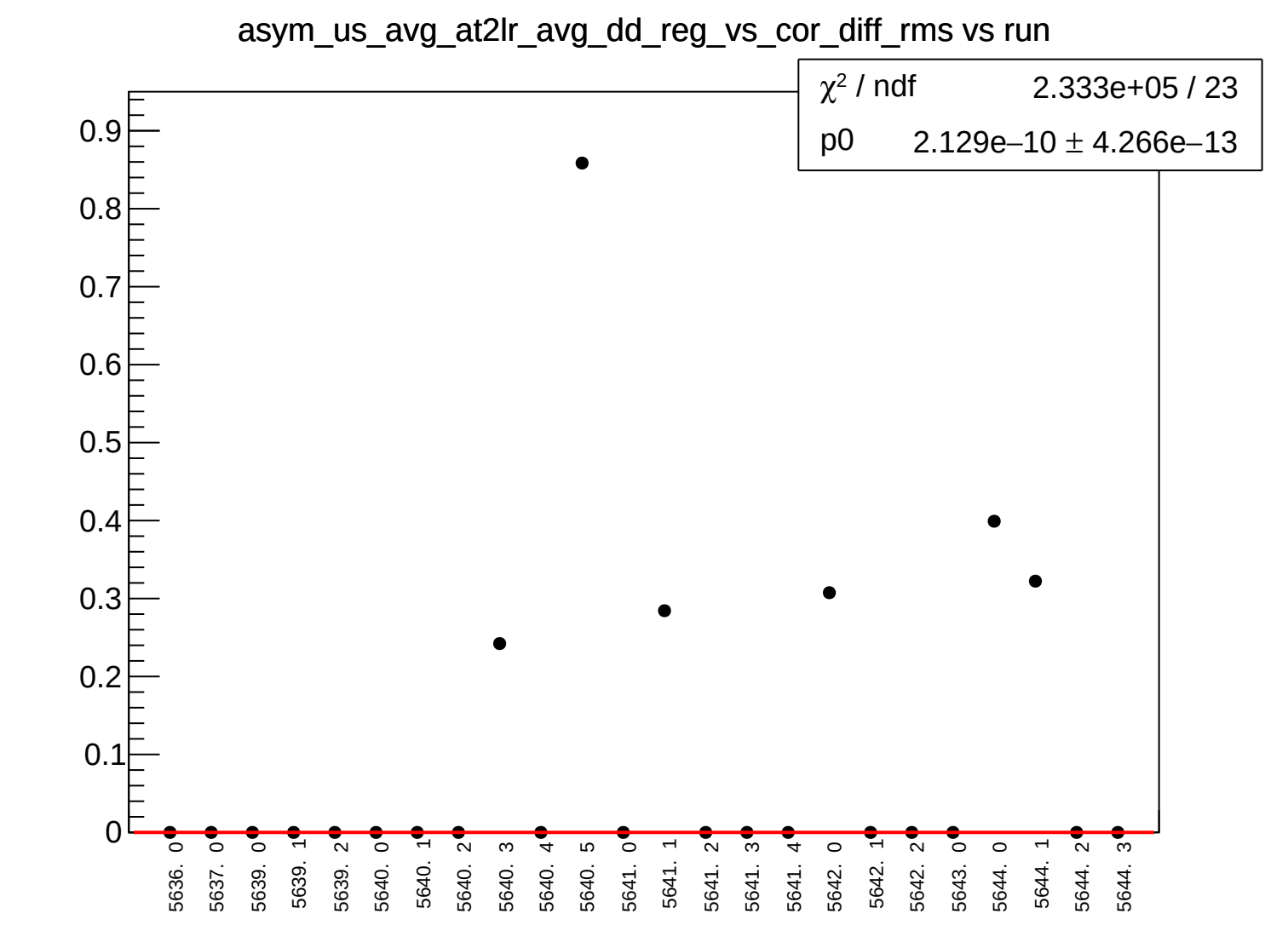

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1588 / 23
p0 4813 ± 6.943
5600
5400
5200
5000
4800
4600
4400
4200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

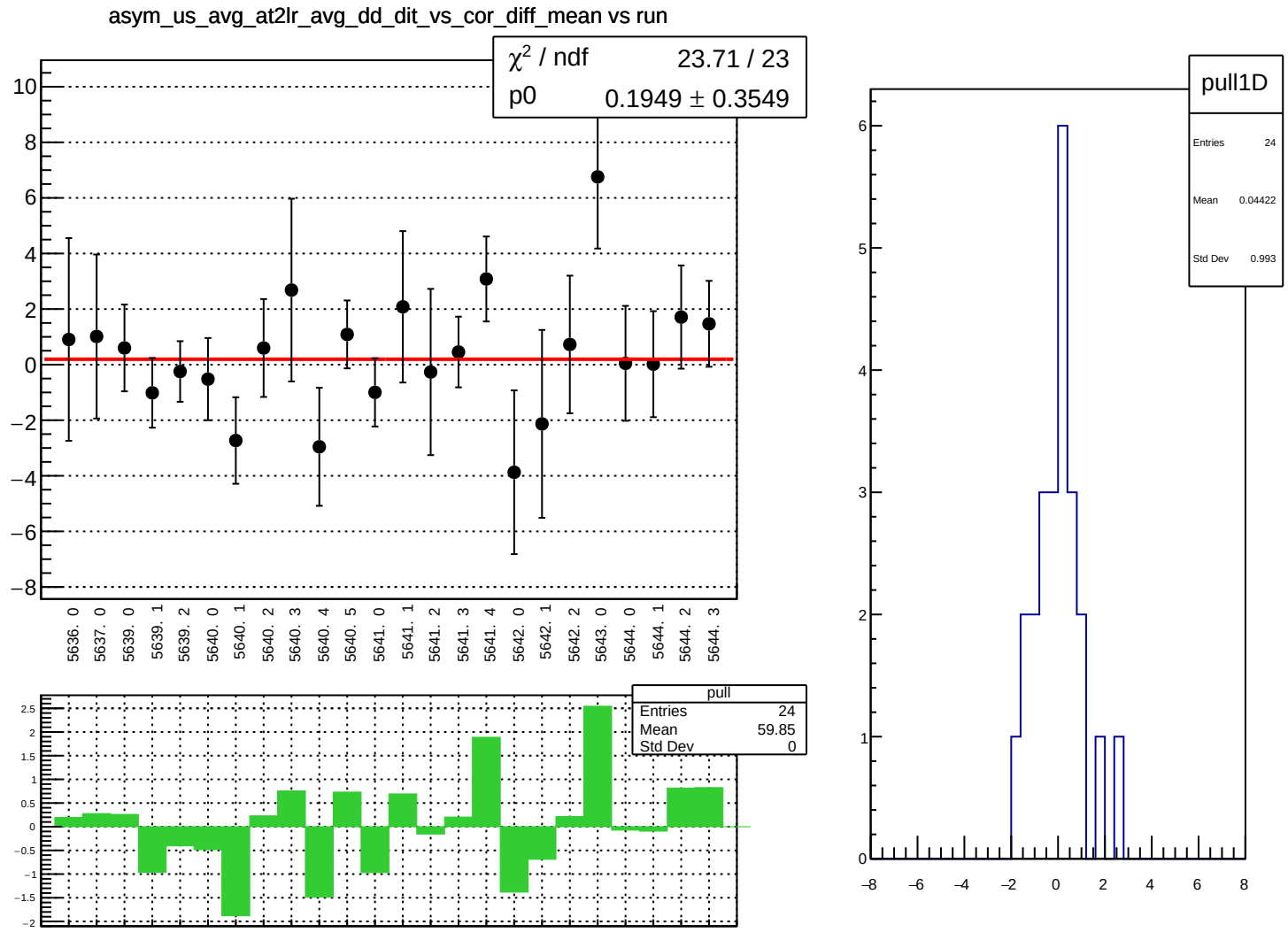

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 16.59 / 23
p0 −4043 ± 1.043e+04
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −110.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.01961
Std Dev 0.8313
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

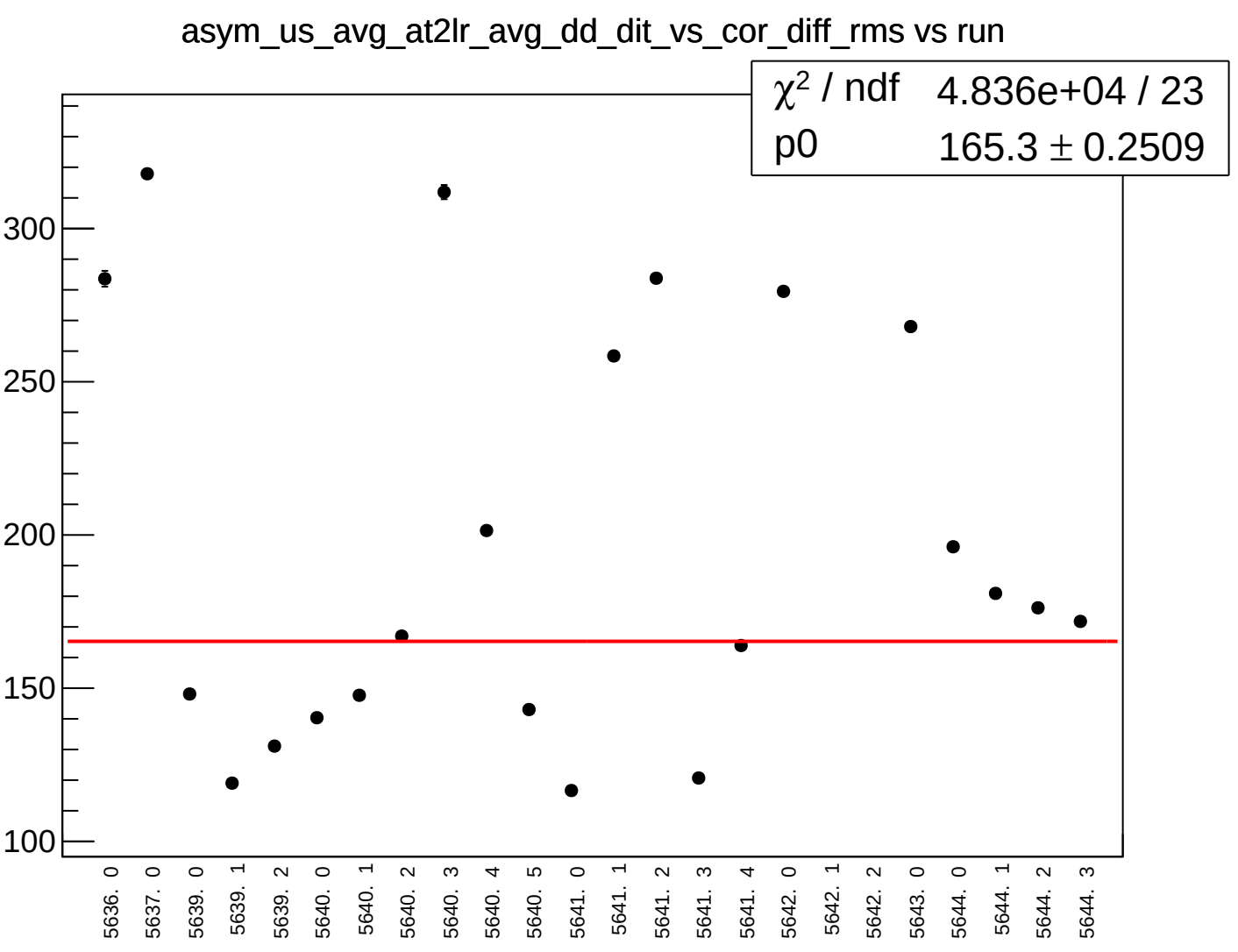

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1638 / 23
p0 5115 ± 7.378
6000
5800
5600
5400
5200
5000
4800
4600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

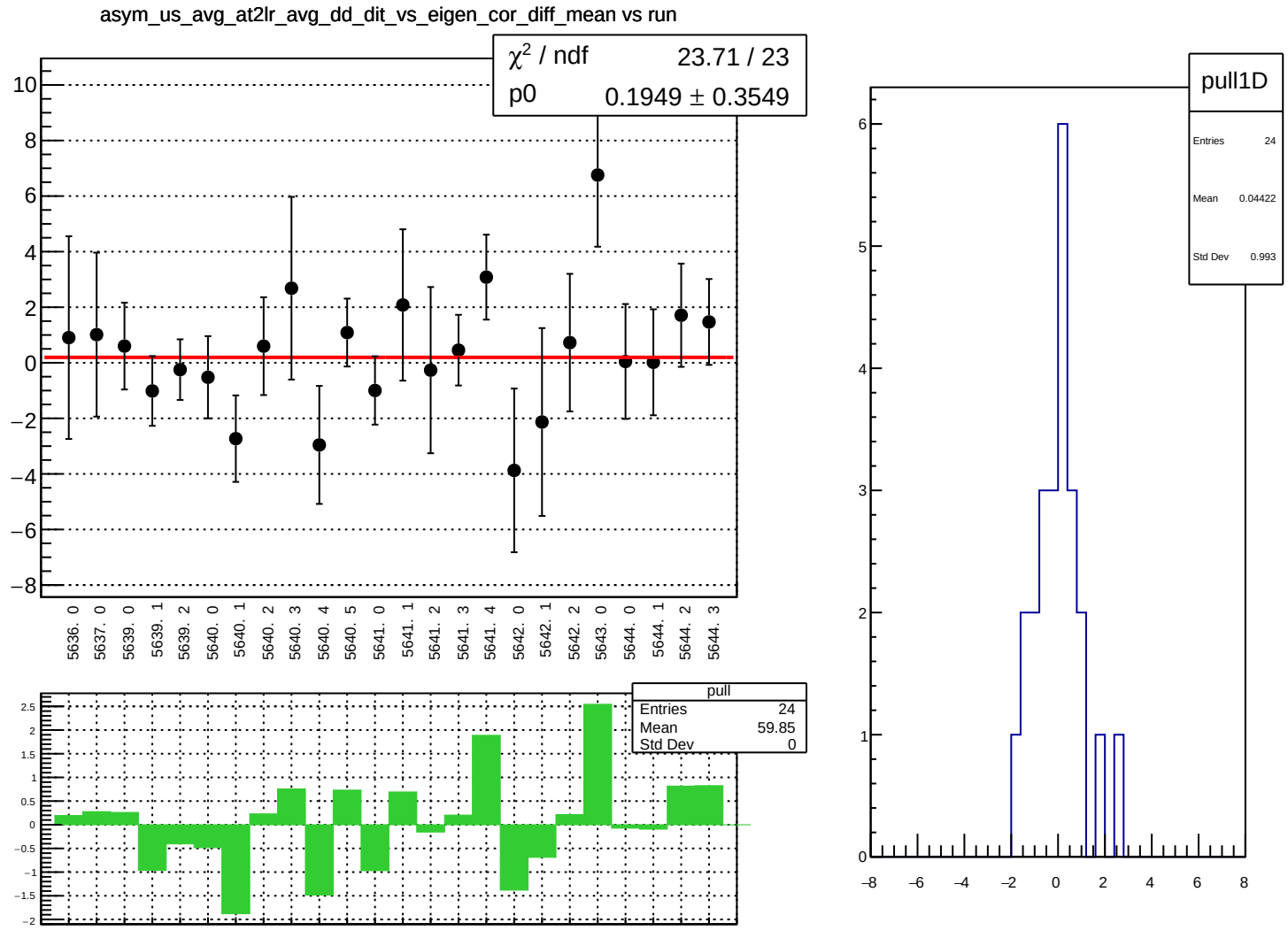

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 24.87 / 23
p0 −7.436e−13 ± 6.034e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 81.26
Std Dev 0
3
2
1
0
−1
−2

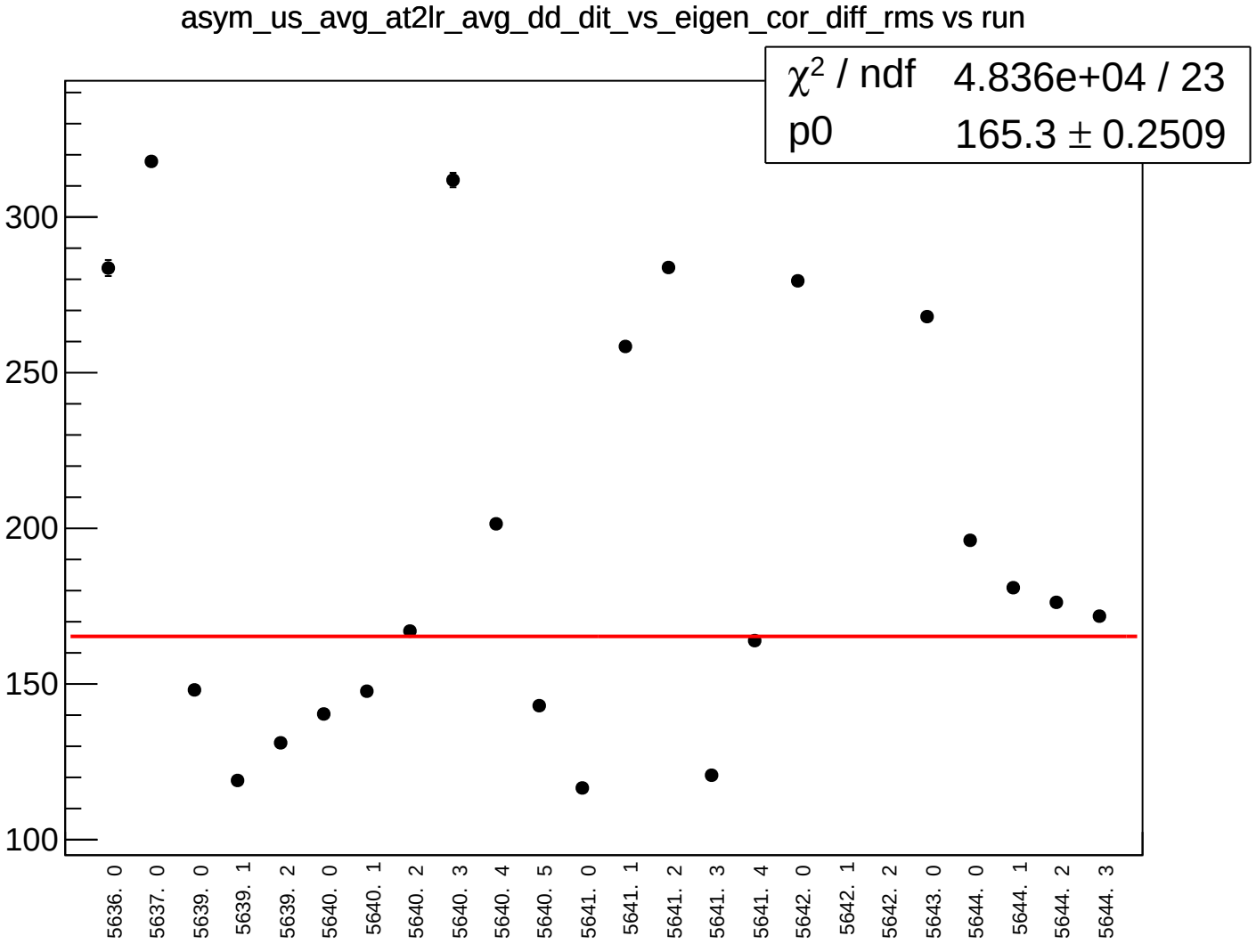

pull1D
Entries 24
Mean 0.05369
Std Dev 1.017
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

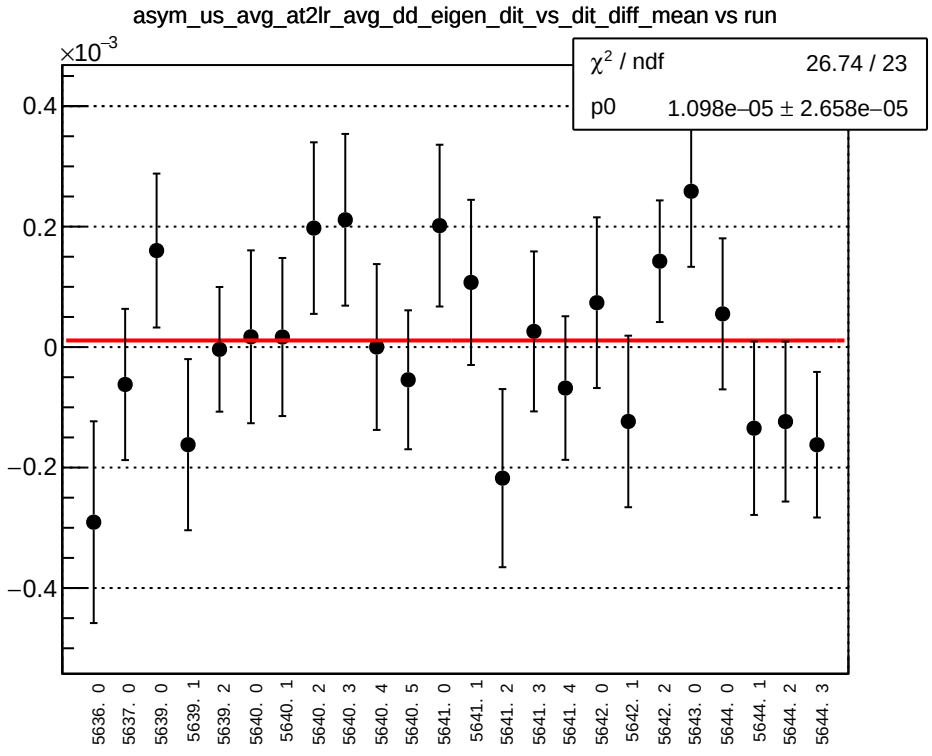

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.333e+05 / 23
p0 2.129e−10 ± 4.266e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

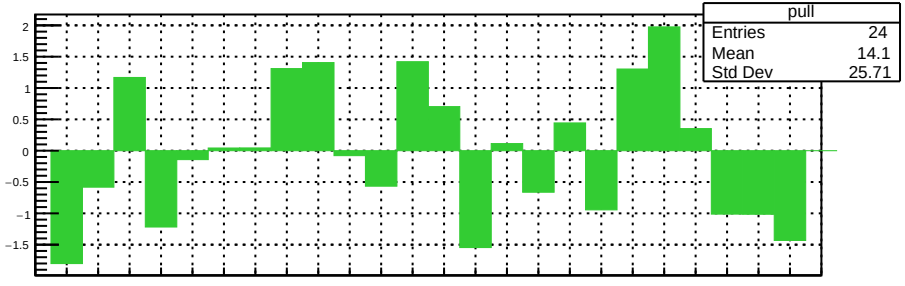

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 23.71 / 23
p0 0.1949 ± 0.3549
10
8
6
4
2
0
−2
−4
−6
−8
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 59.85
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.04422
Std Dev 0.993
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

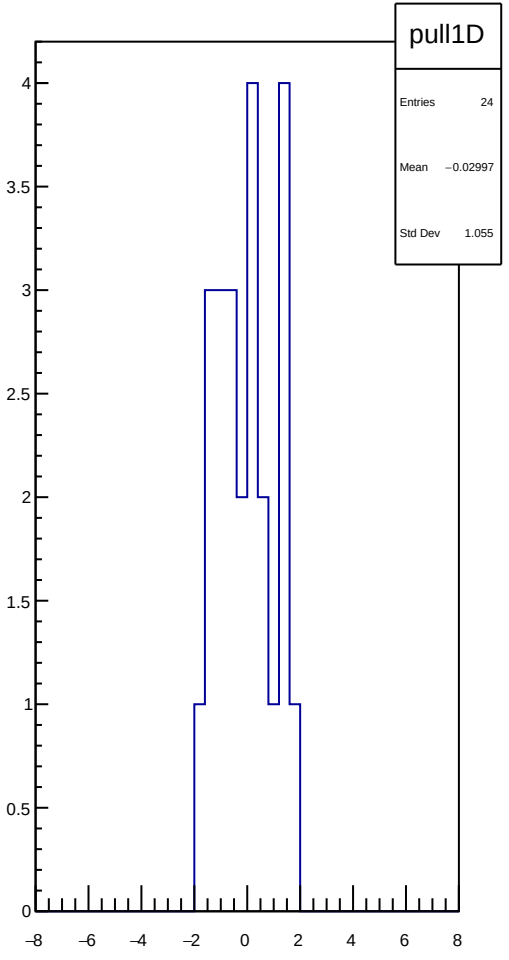

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.836e+04 / 23
p0 165.3 ± 0.2509
300
250
200
150
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

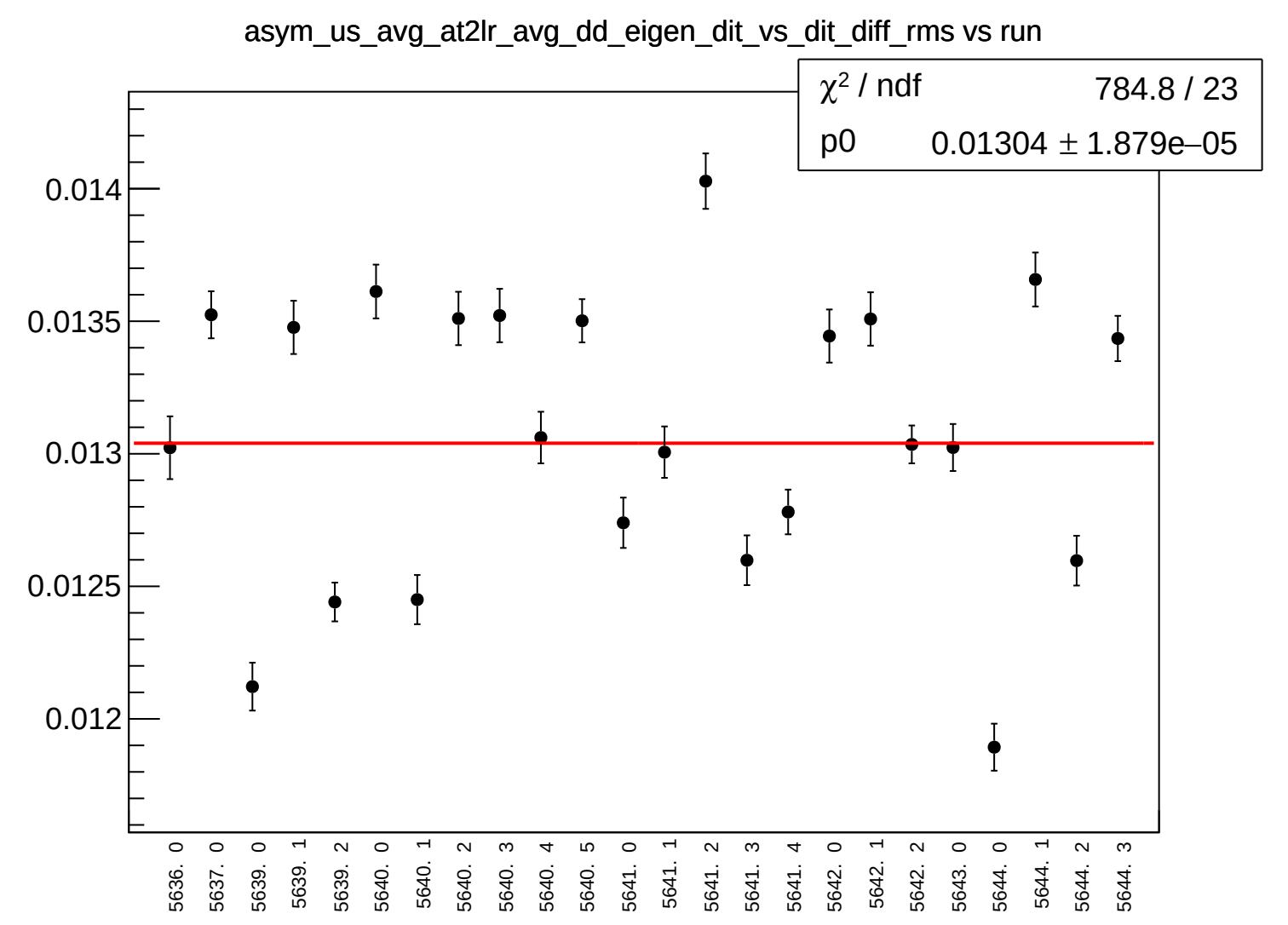

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 23.71 / 23
p0 0.1949 ± 0.3549
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 59.85
Std Dev 0
pull1D
Entries 24
Mean 0.04422
Std Dev 0.993

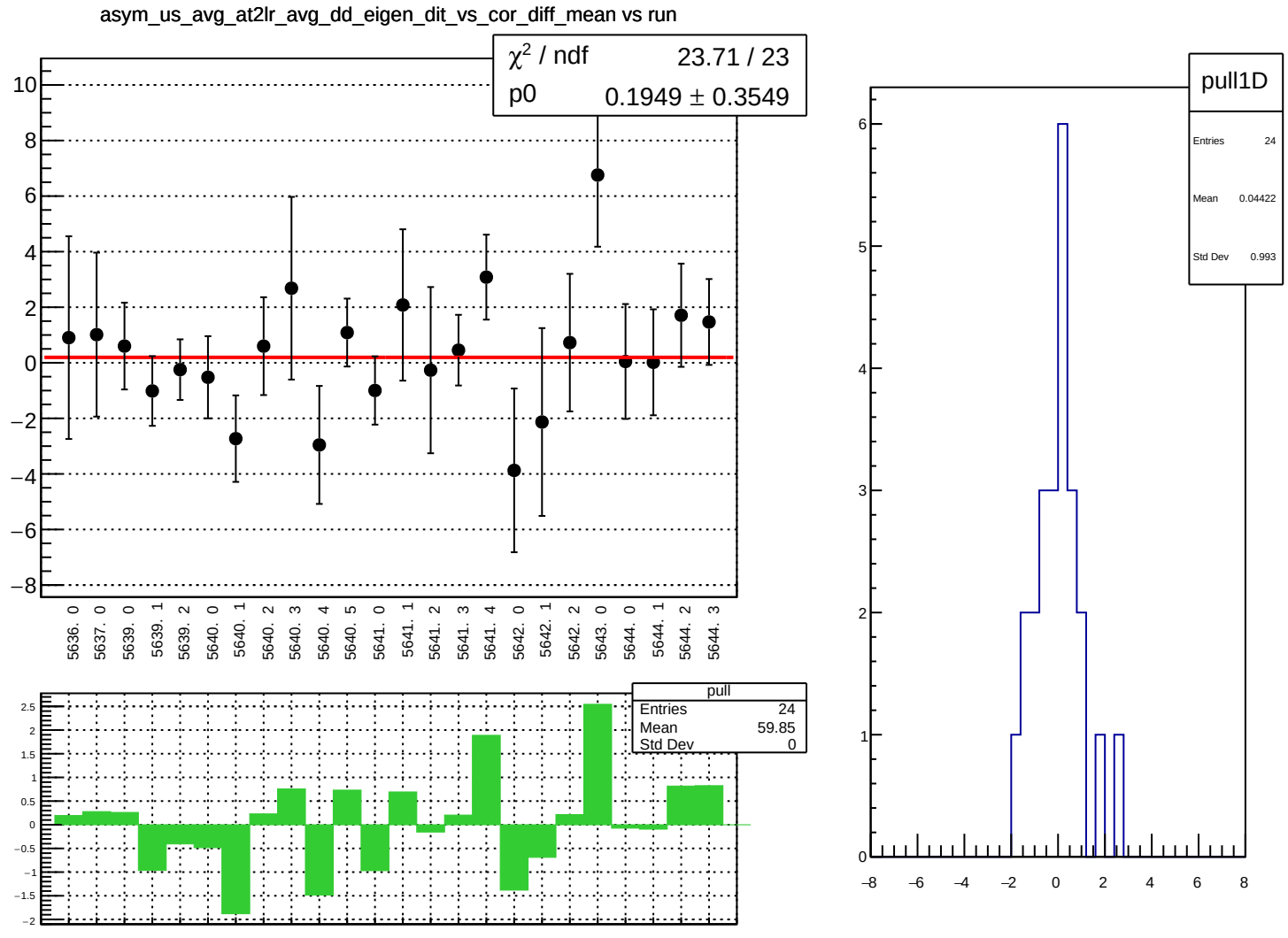

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.836e+04 / 23
p0 165.3 ± 0.2509
300
250
200
150
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

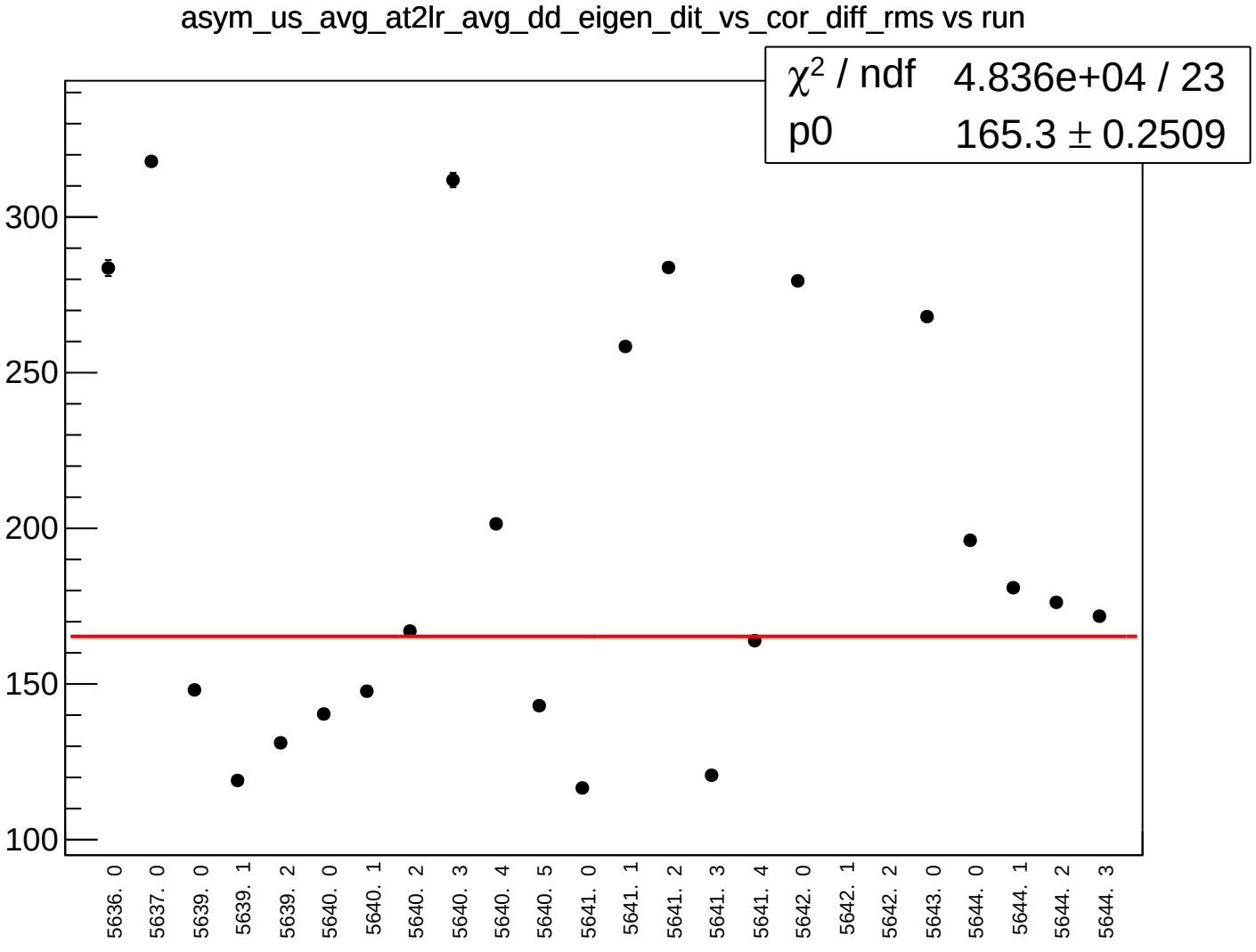

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 26.74 / 23
p0 1.098e−05 ± 2.658e−05
0.4
0.2
0
−0.2
−0.4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

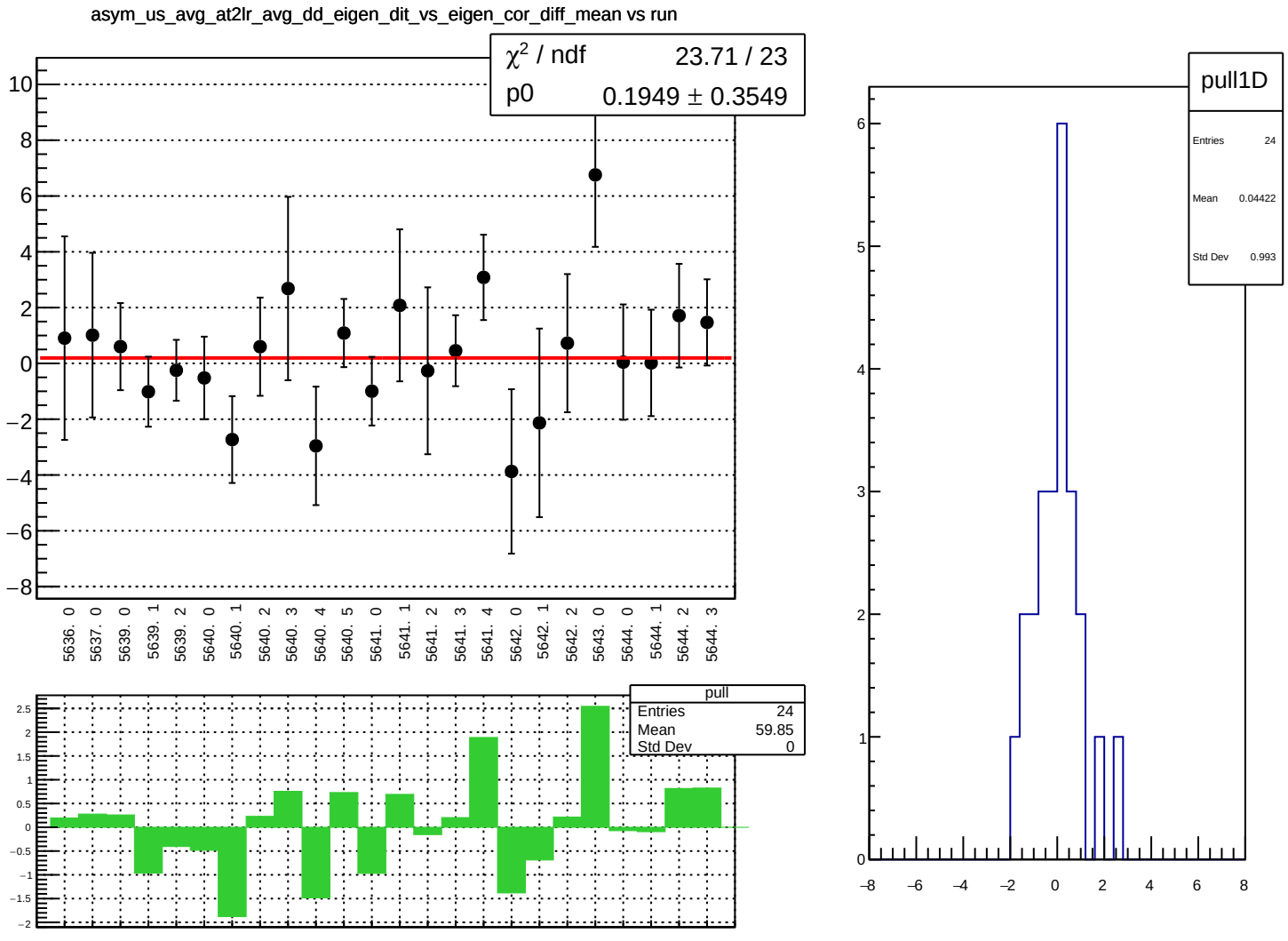

pull
Entries 24
Mean 14.1
Std Dev 25.71
2
1.5
1
0.5
0
−0.5
−1
−1.5

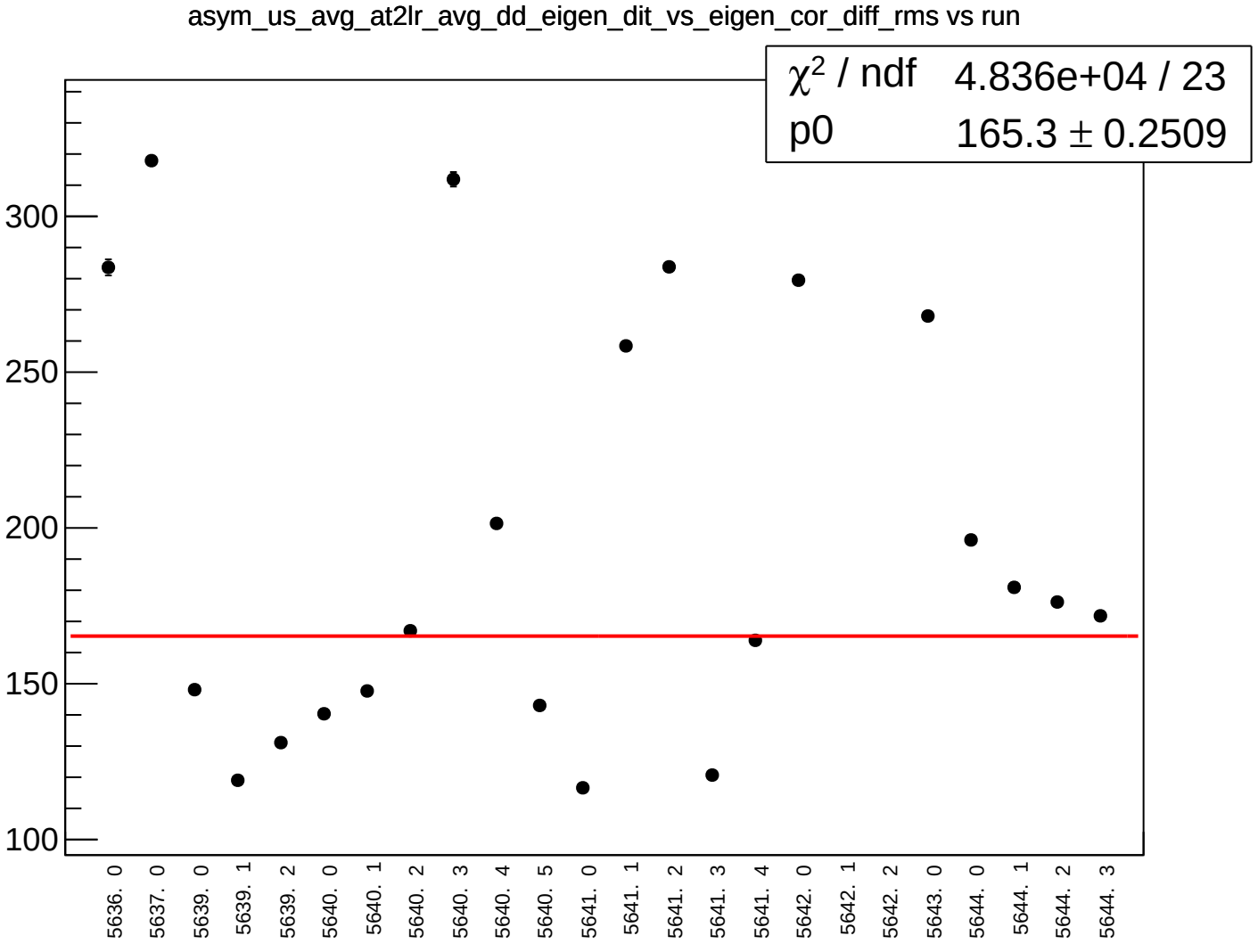

pull1D
Entries 24
Mean −0.02997
Std Dev 1.055
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

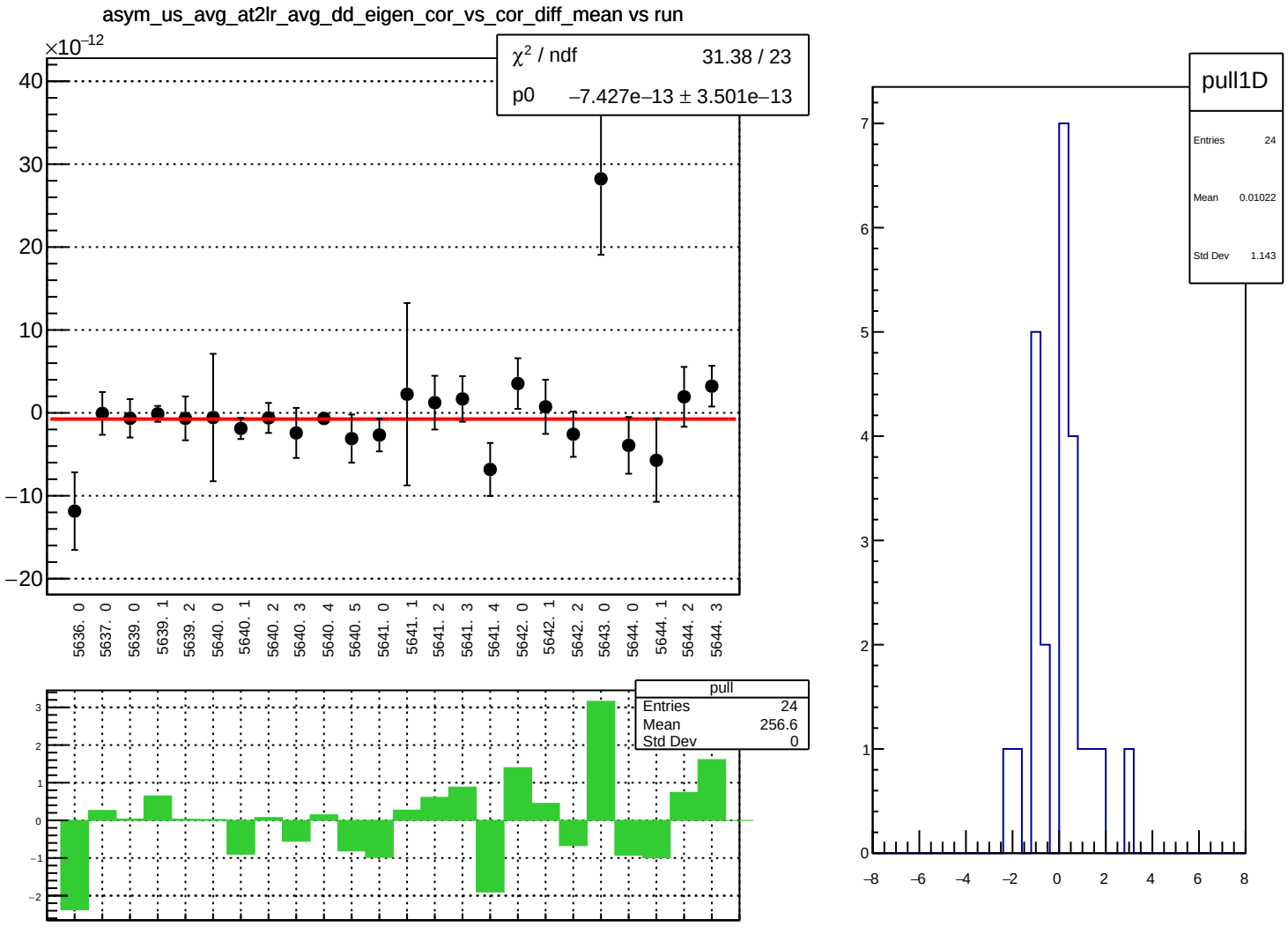

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 784.8 / 23
p0 0.01304 ± 1.879e–05
0.014
0.0135
0.013
0.0125
0.012
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

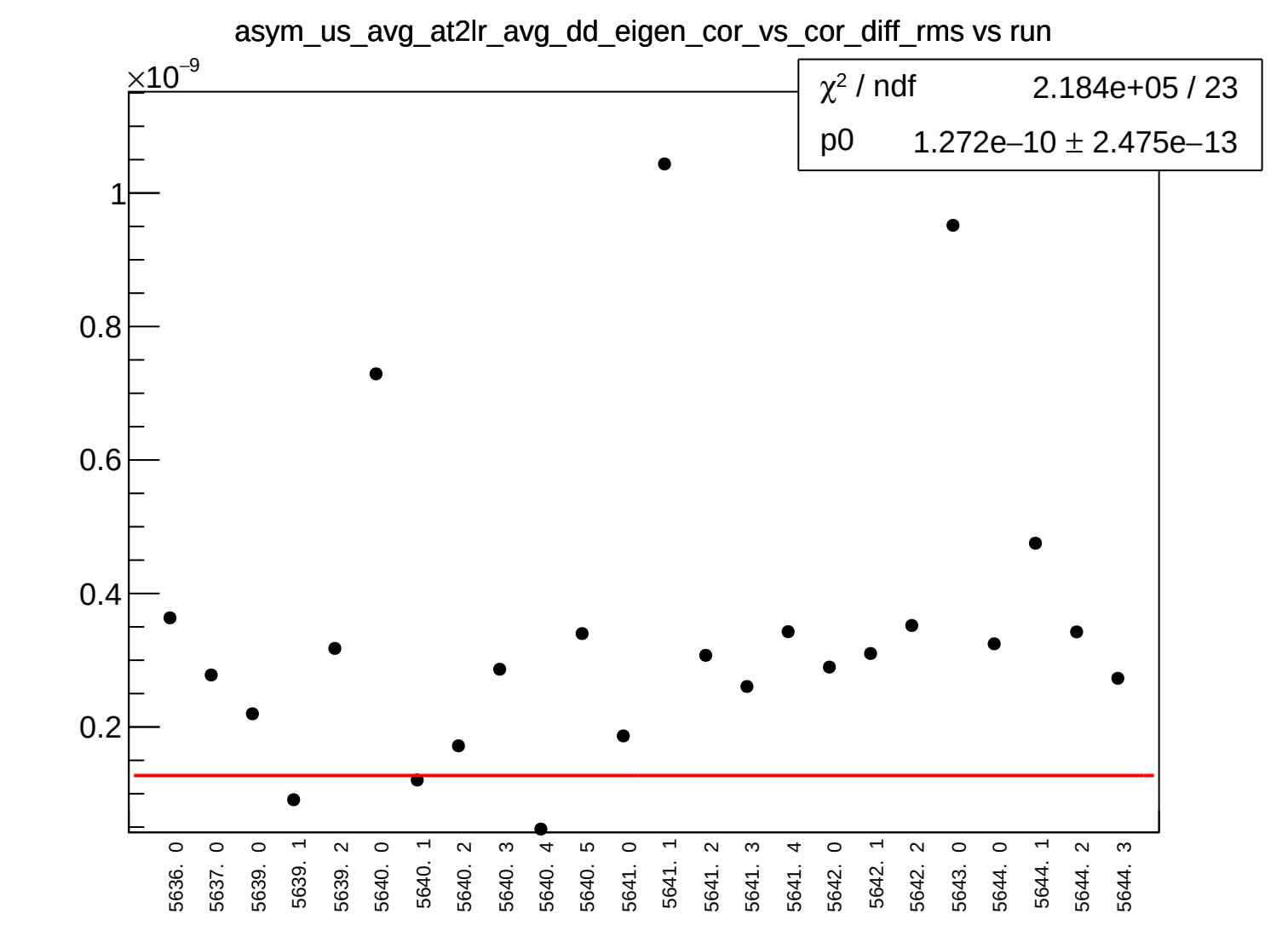

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 23.71 / 23
p0 0.1949 ± 0.3549
10
8
6
4
2
0
−2
−4
−6
−8
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 59.85
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.04422
Std Dev 0.993
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.836e+04 / 23
p0 165.3 ± 0.2509
300
250
200
150
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 23.71 / 23
p0 0.1949 ± 0.3549
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 59.85
Std Dev 0
pull1D
Entries 24
Mean 0.04422
Std Dev 0.993


asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.836e+04 / 23
p0 165.3 ± 0.2509
300
250
200
150
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 31.38 / 23
p0 −7.427e−13 ± 3.501e−13
40
30
20
10
0
−10
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 256.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 24
Mean 0.01022
Std Dev 1.143
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.184e+05 / 23
p0 1.272e−10 ± 2.475e−13
1
0.8
0.6
0.4
0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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5642. 0
5642. 1
5642. 2
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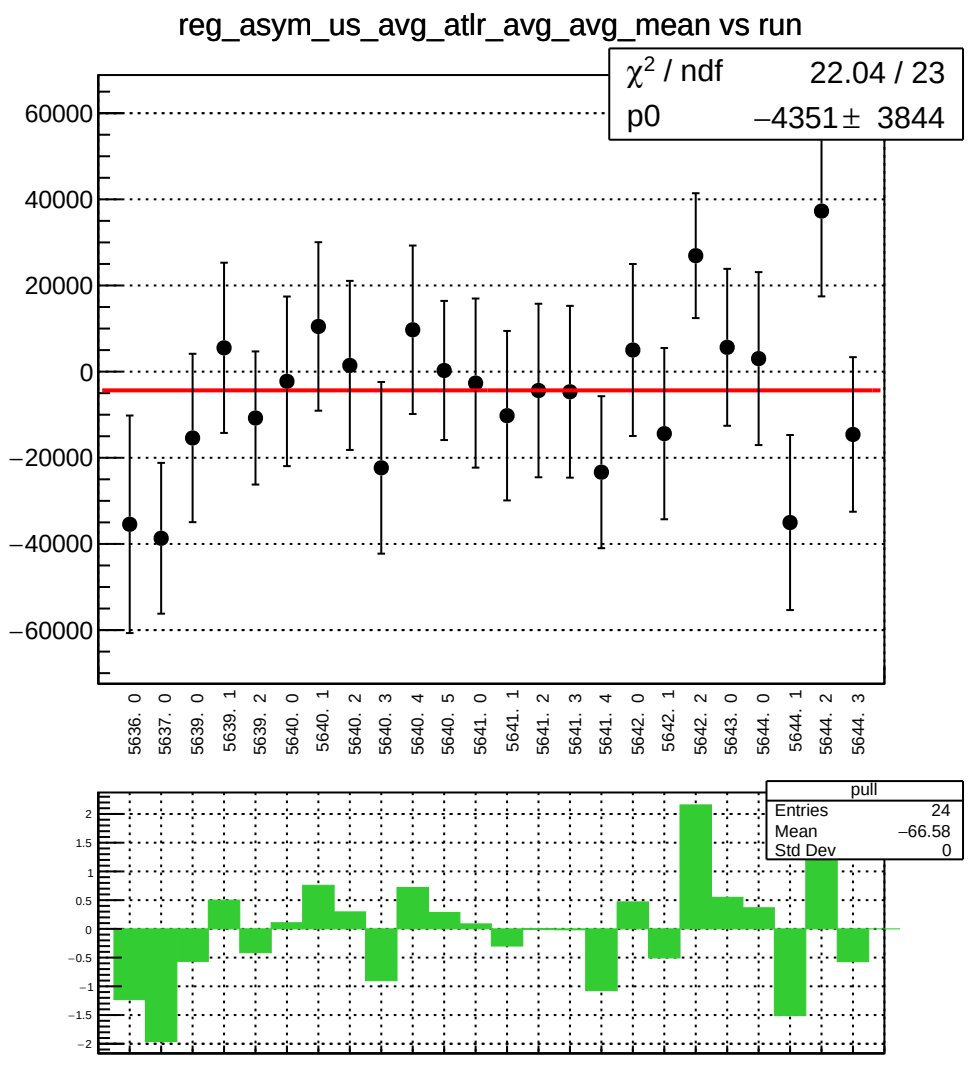
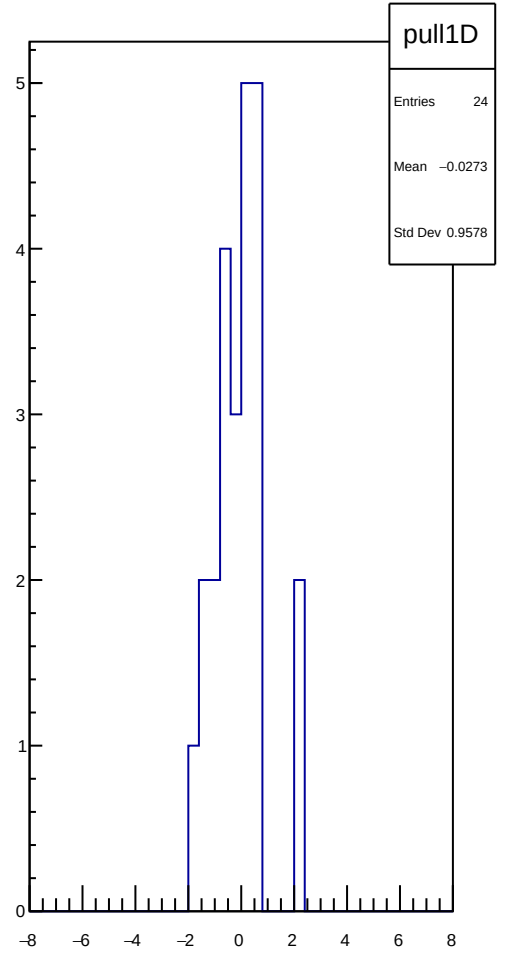
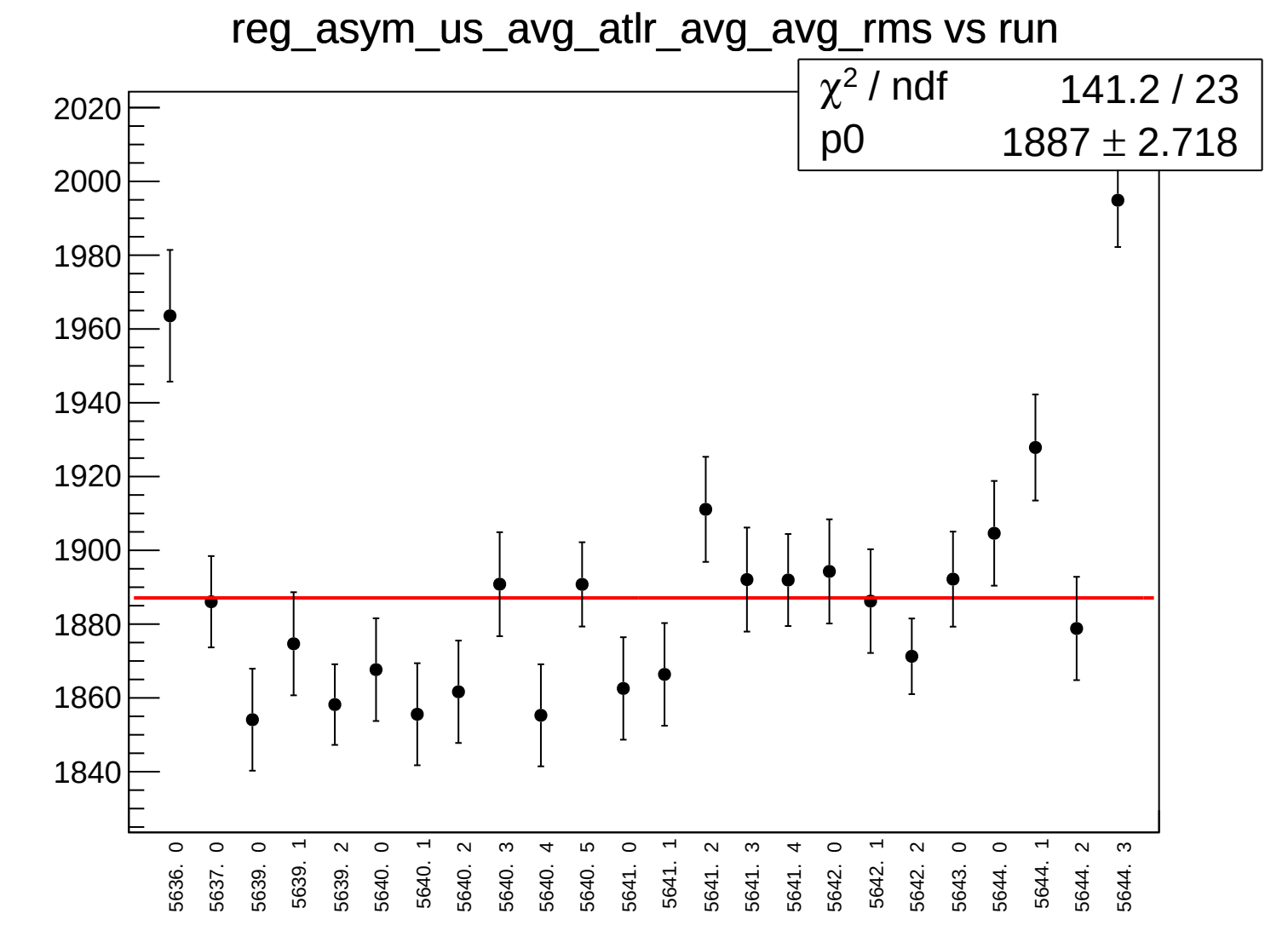
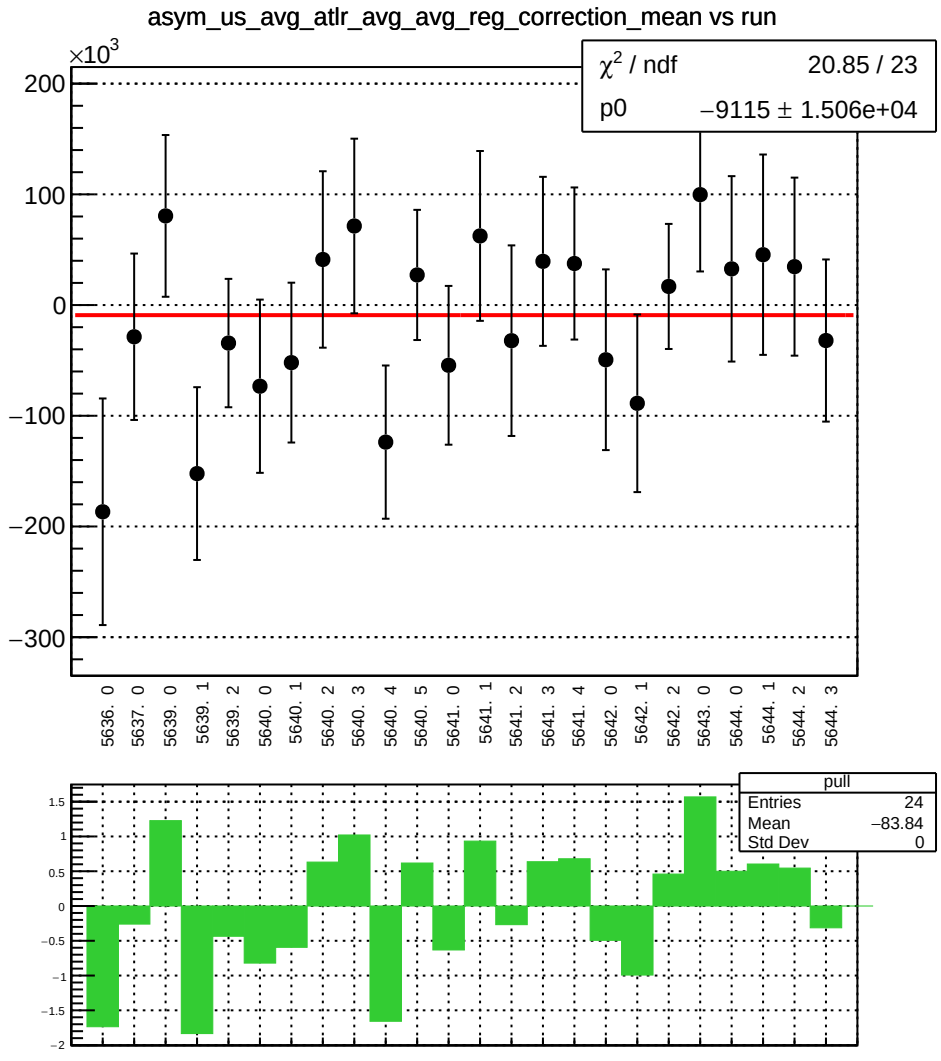
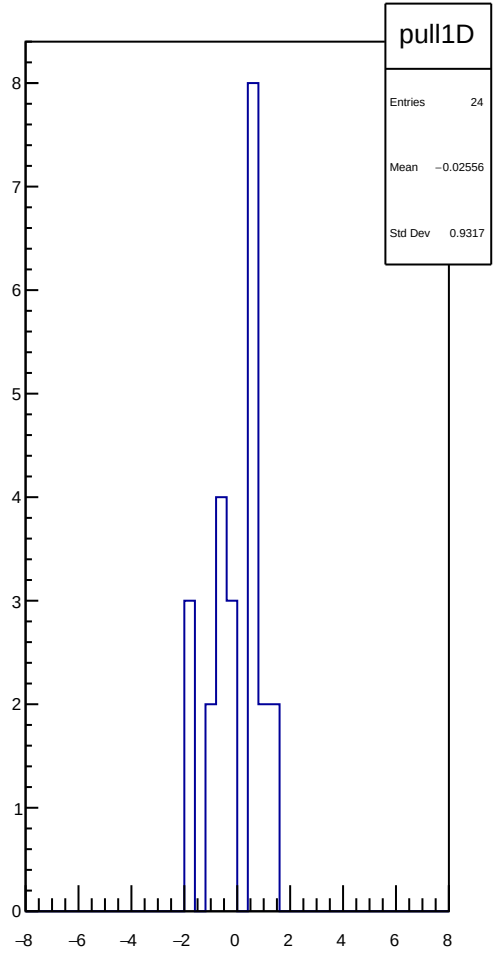
5644. 0
5644. 1
5644. 2
5644. 3

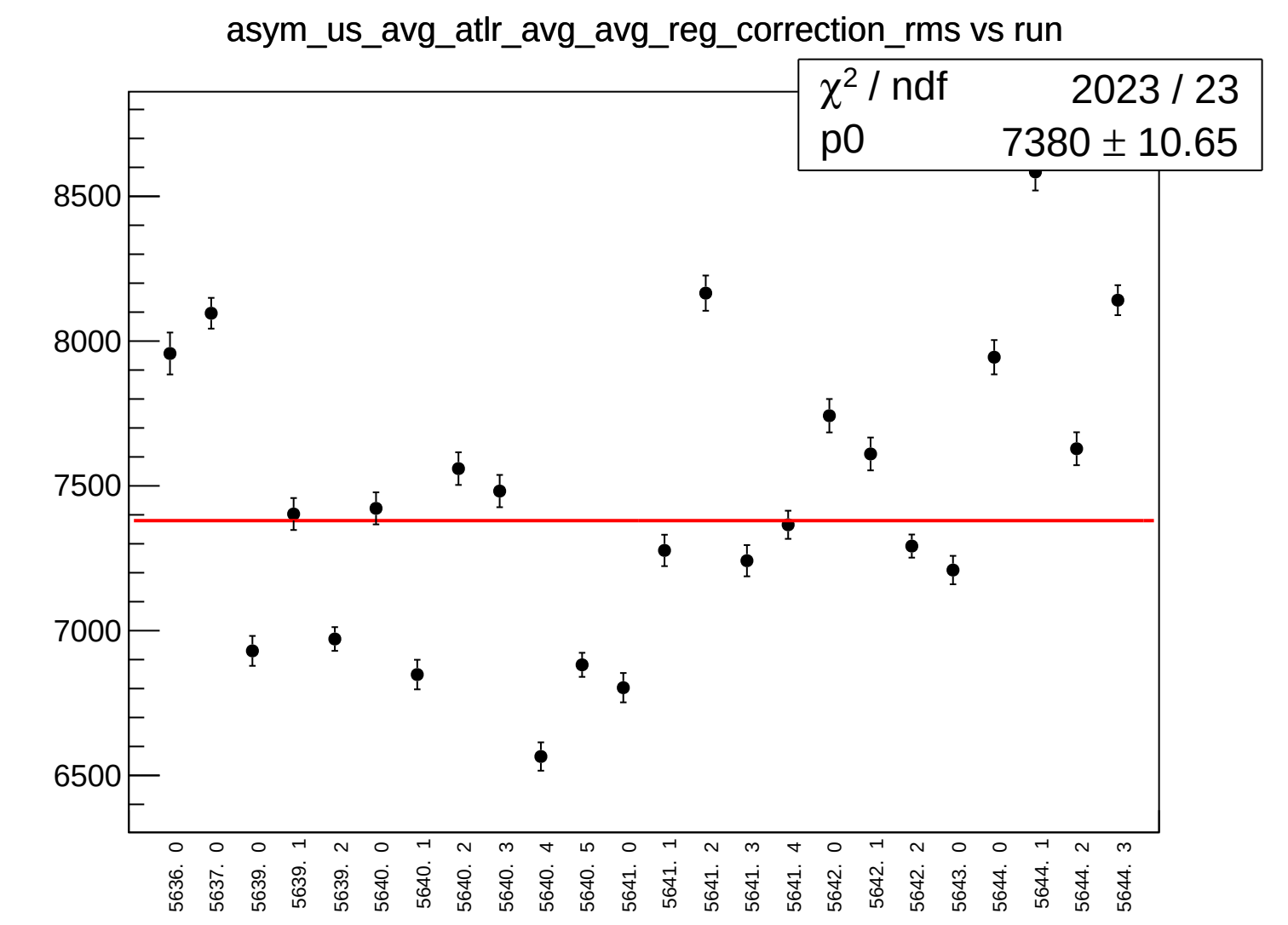

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 22.04 / 23
p0 −4351 ± 3844
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −66.58
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

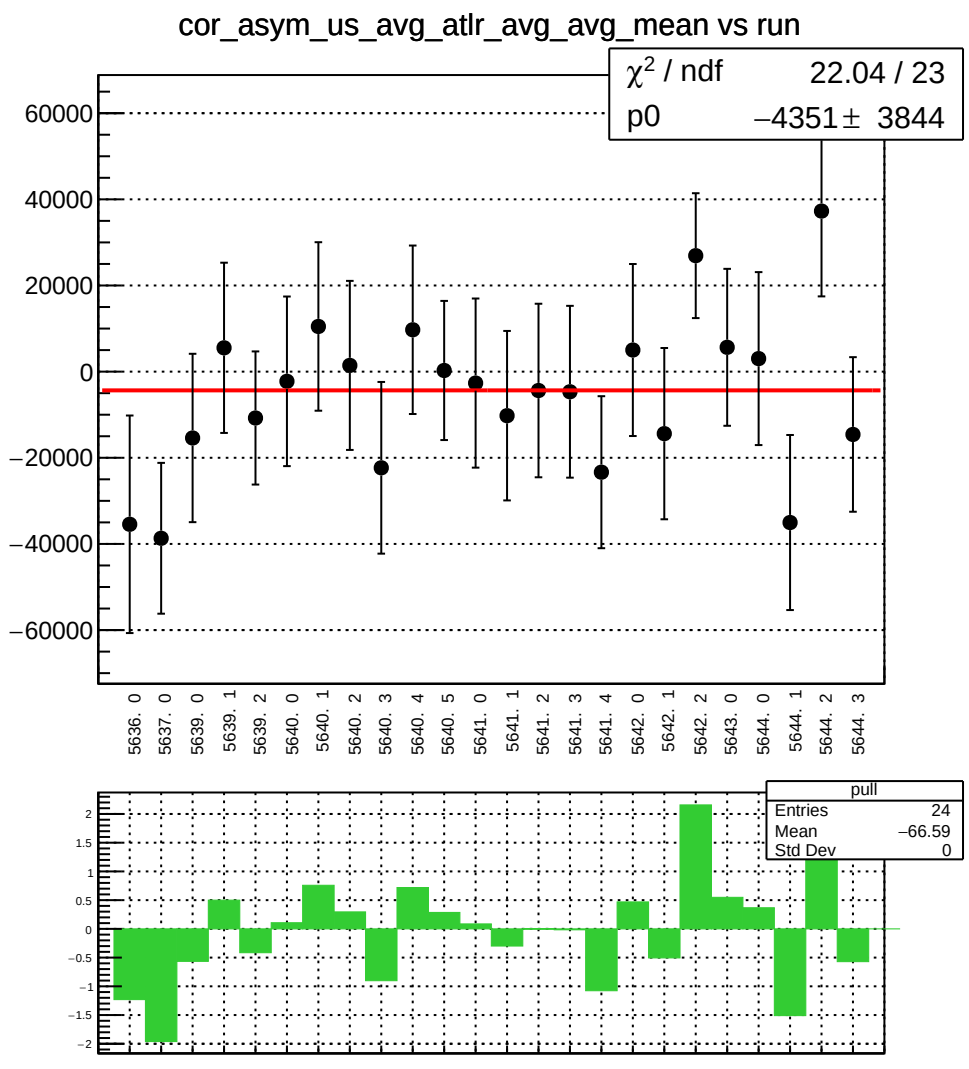

pull1D
Entries 24
Mean −0.0273
Std Dev 0.9578
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

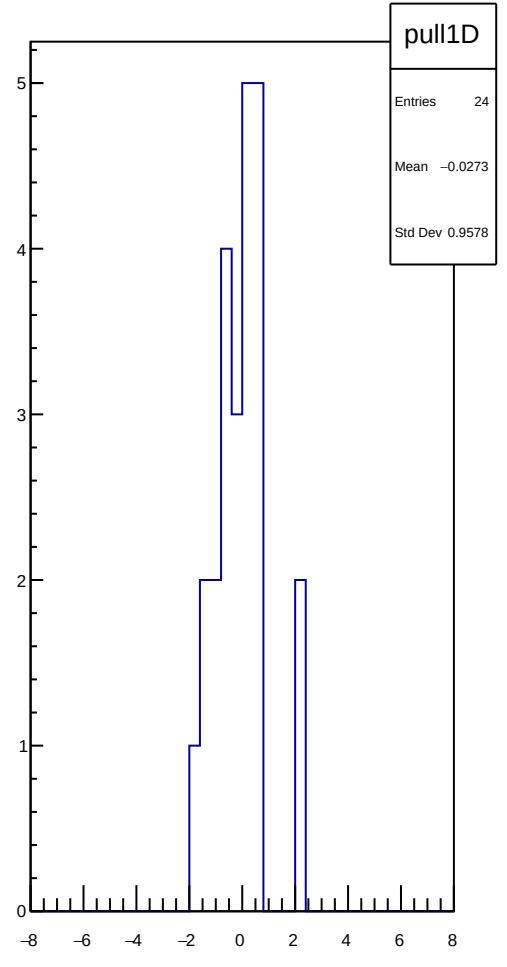

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 141.2 / 23
p0 1887 ± 2.718
2020
2000
1980
1960
1940
1920
1900
1880
1860
1840
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

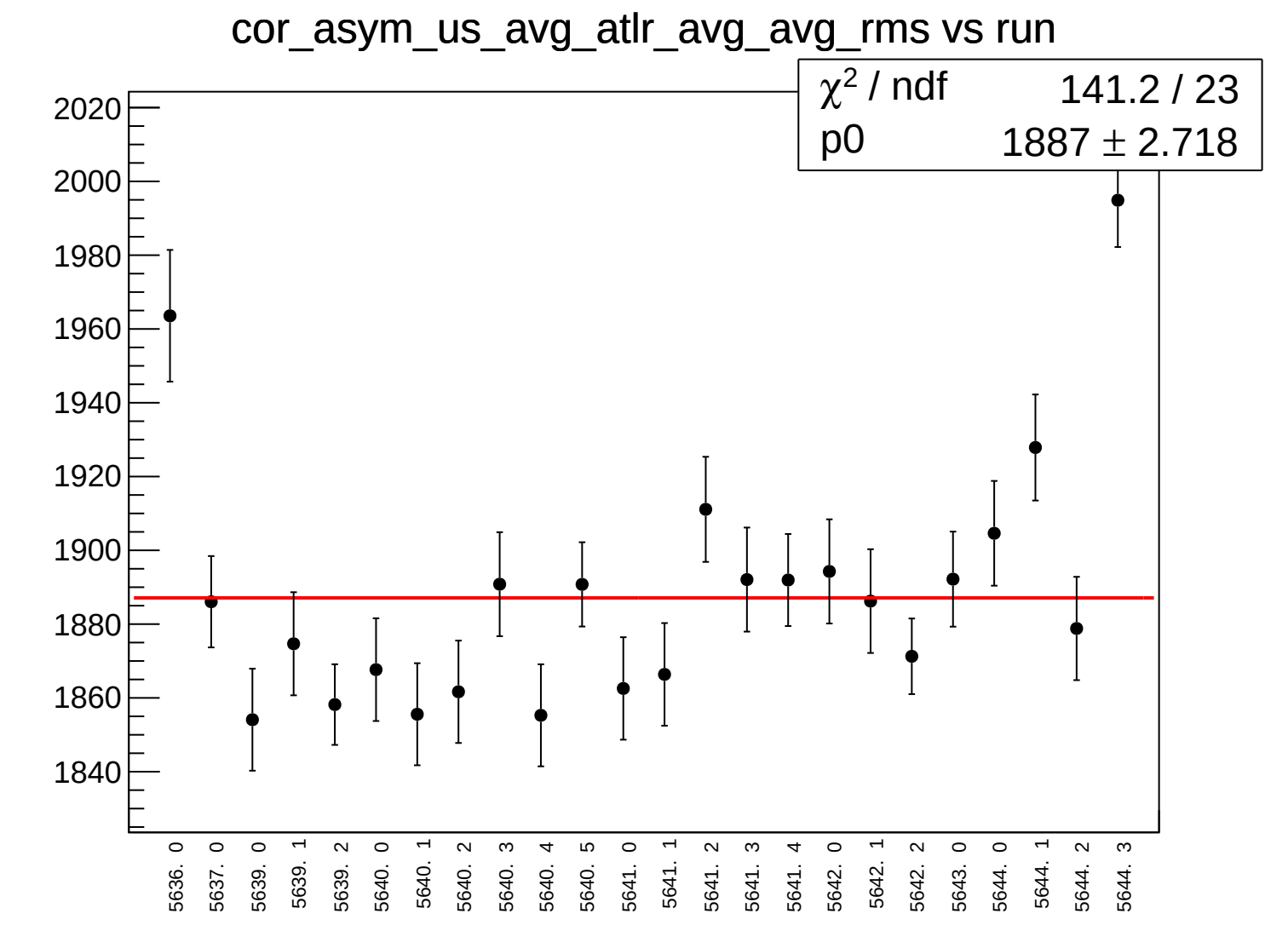

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 20.85 / 23
p0 −9115 ± 1.506e+04
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −83.84
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

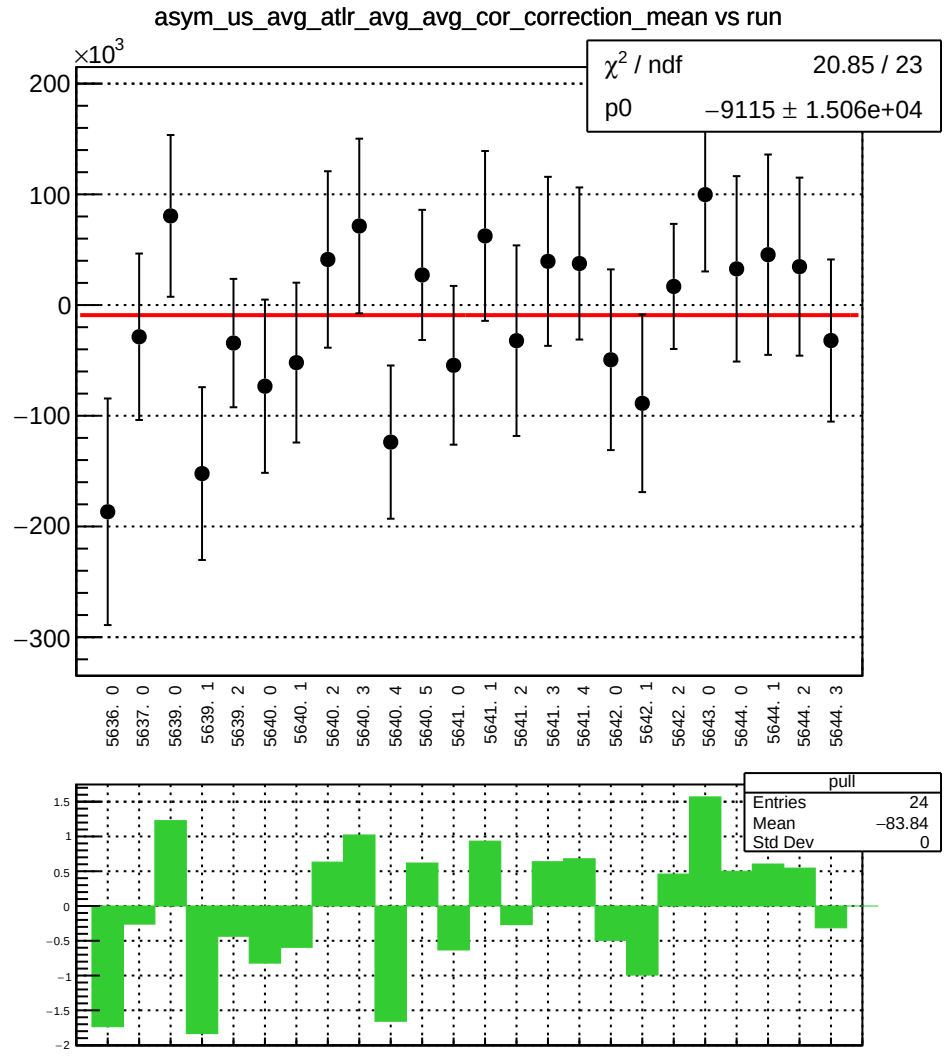

pull1D
Entries 24
Mean −0.02556
Std Dev 0.9317
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

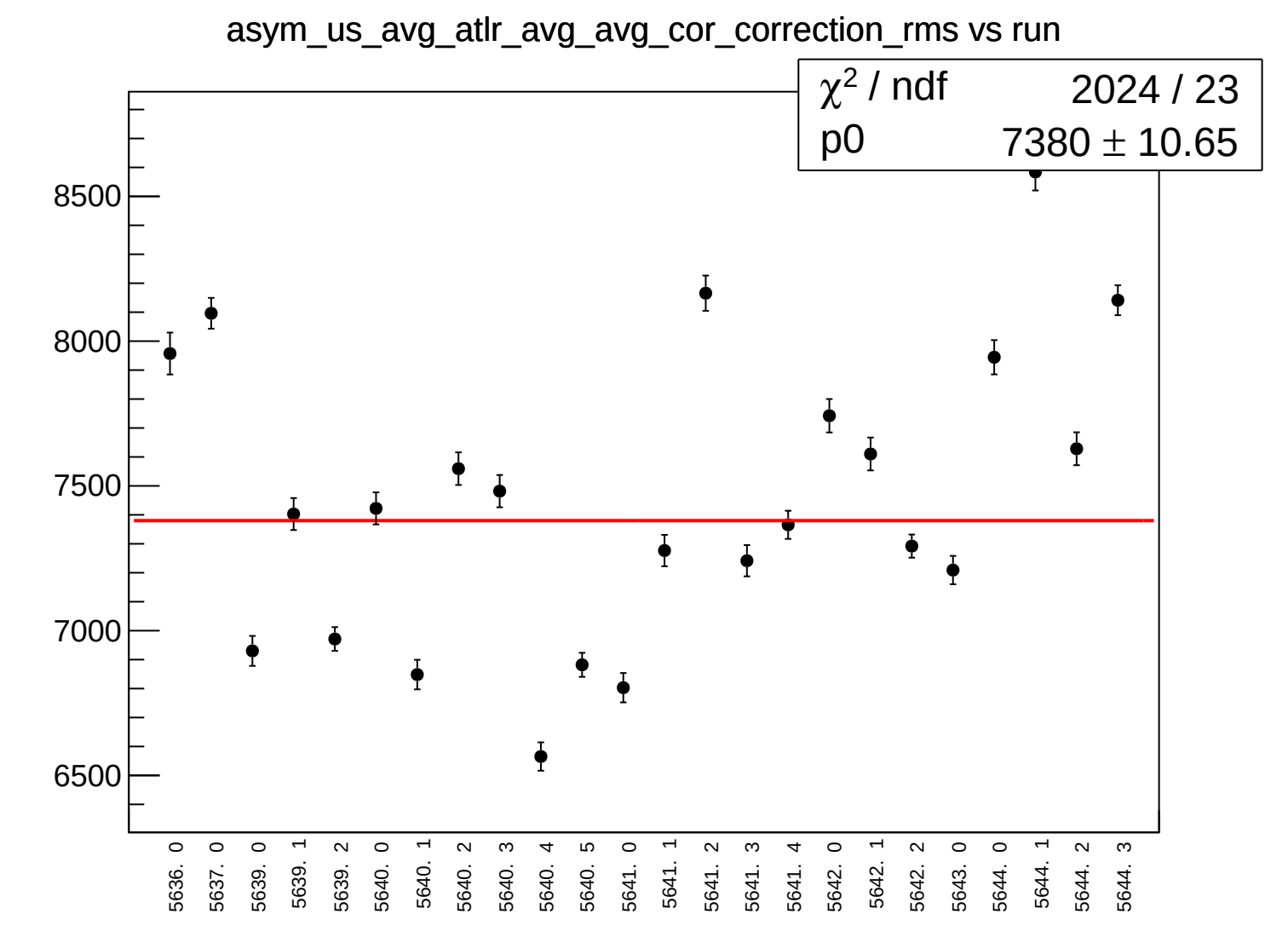

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 2023 / 23
p0 7380 ± 10.65
8500
8000
7500
7000
6500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

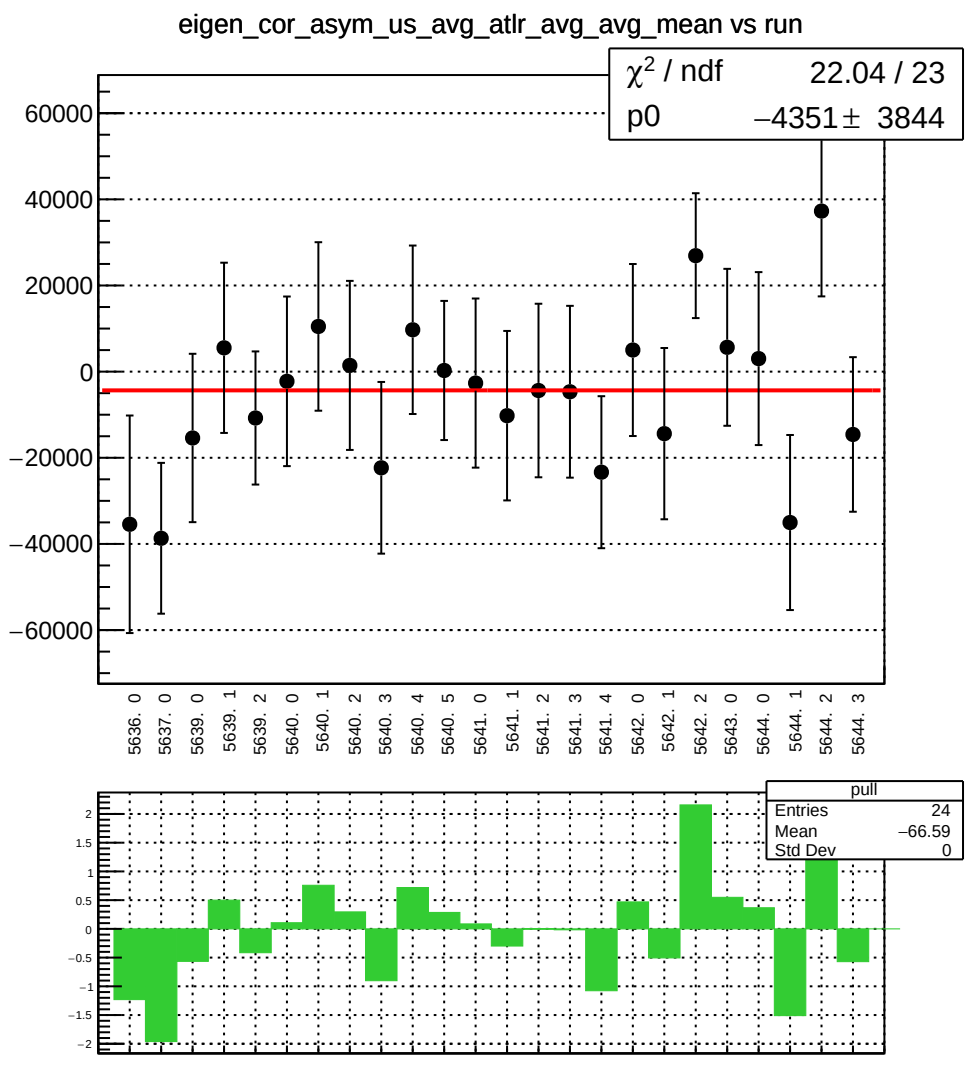

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 22.04 / 23
p0 −4351 ± 3844
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −66.59
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

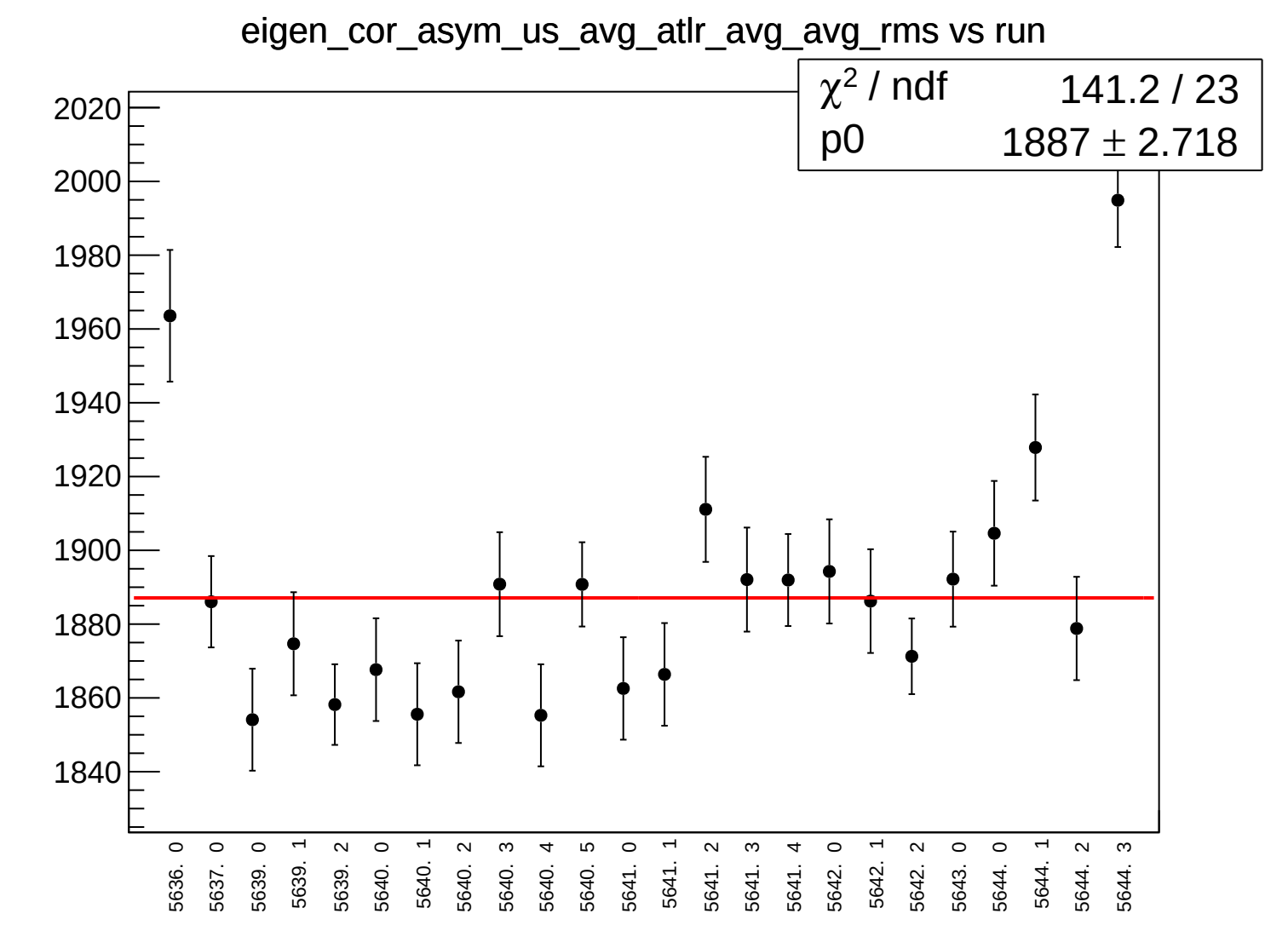

pull1D
Entries 24
Mean −0.0273
Std Dev 0.9578
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 141.2 / 23
p0 1887 ± 2.718
2020
2000
1980
1960
1940
1920
1900
1880
1860
1840
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 20.85 / 23
p0 −9115 ± 1.506e+04
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −83.84
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.02556
Std Dev 0.9317
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 2024 / 23
p0 7380 ± 10.65
8500
8000
7500
7000
6500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 22.04 / 23
p0 −4351 ± 3844
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −66.59
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.0273
Std Dev 0.9578
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 141.2 / 23
p0 1887 ± 2.718
2020
2000
1980
1960
1940
1920
1900
1880
1860
1840
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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5642. 0
5642. 1
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5643. 0
5644. 0
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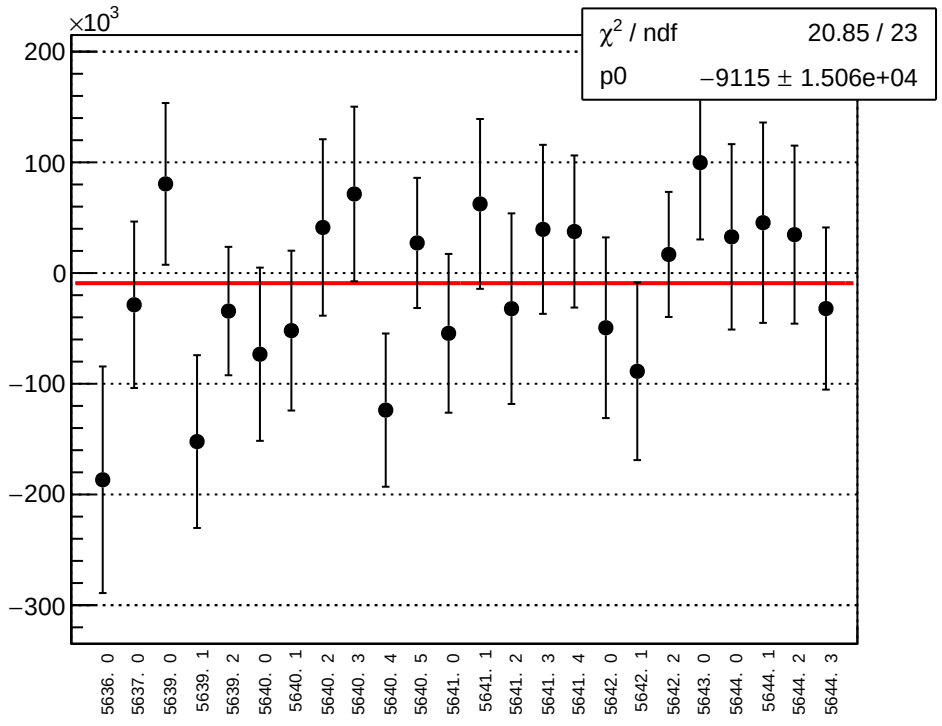
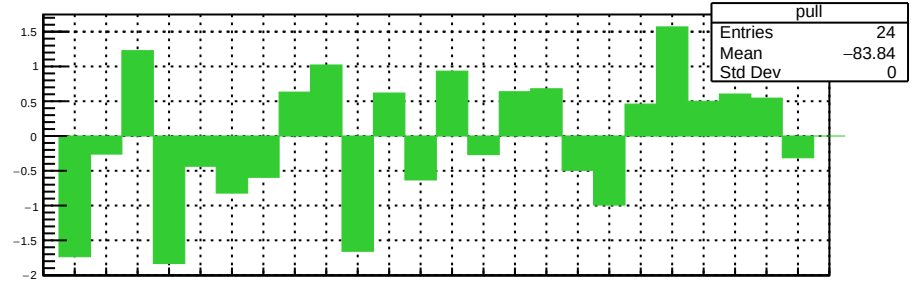
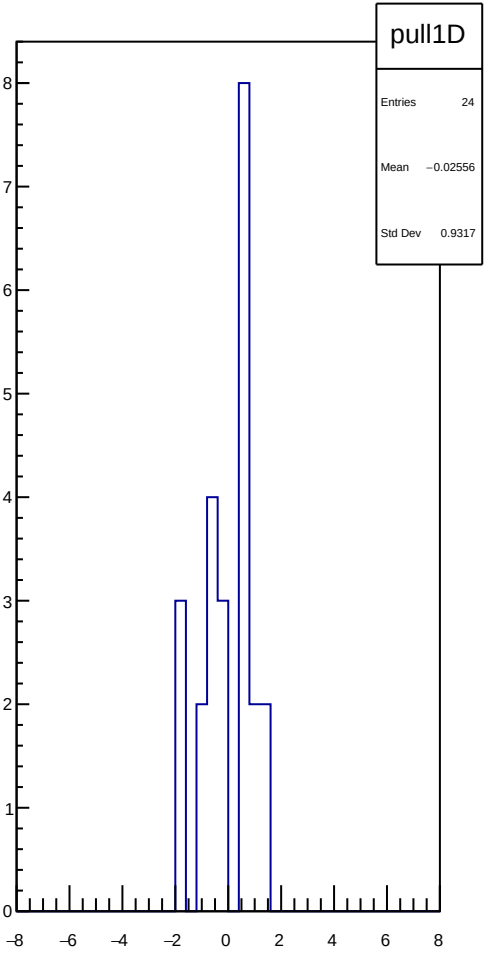
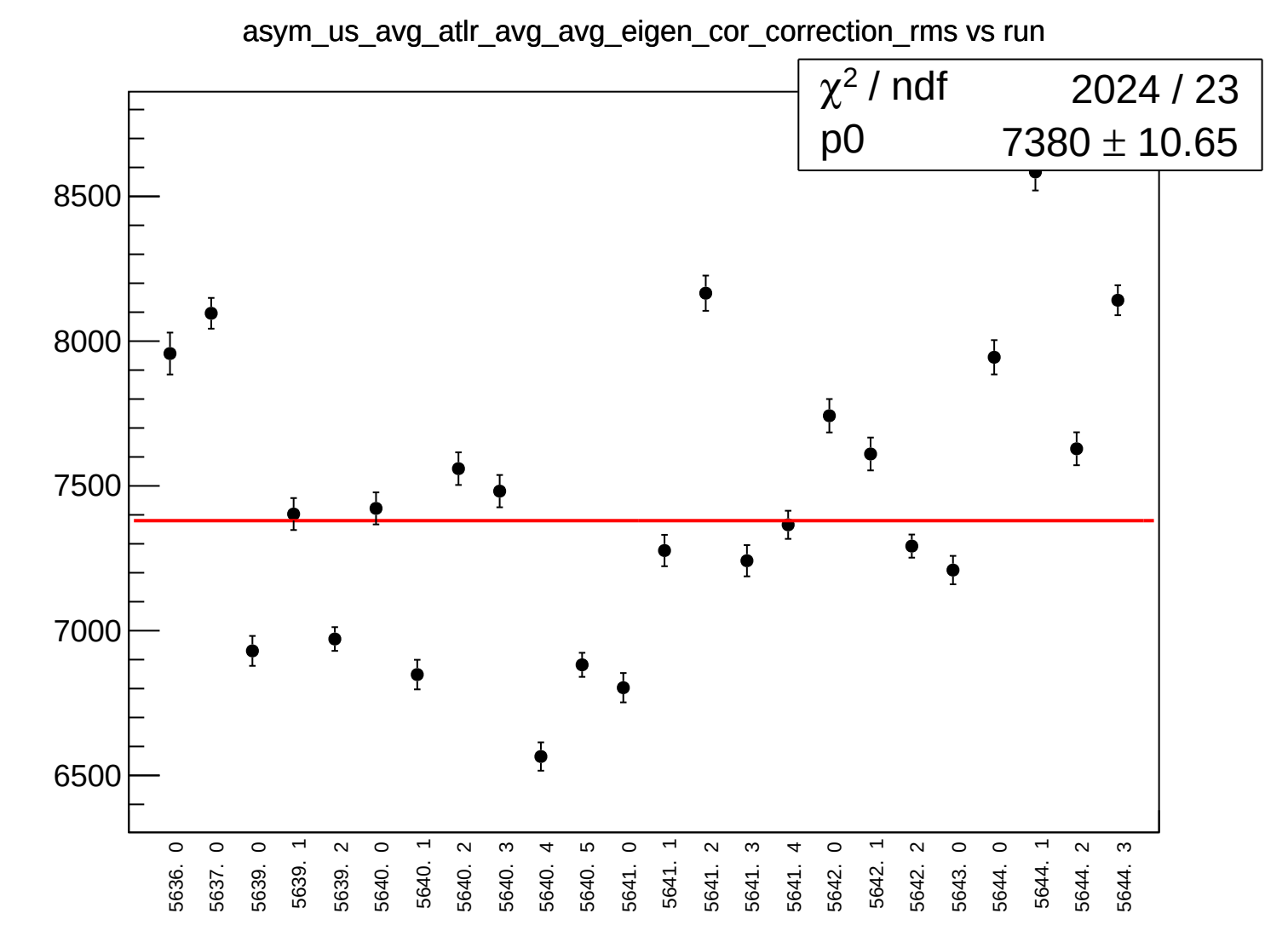
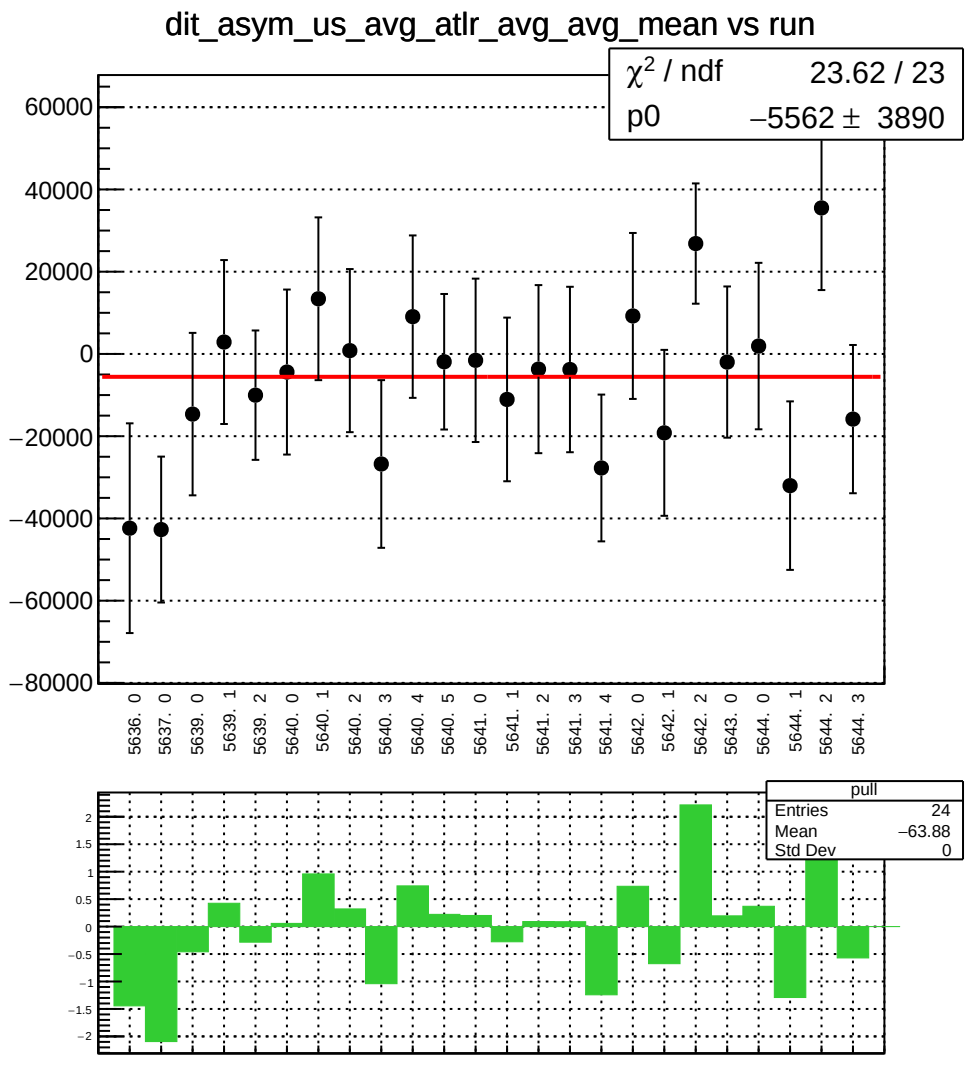
5644. 2
5644. 3

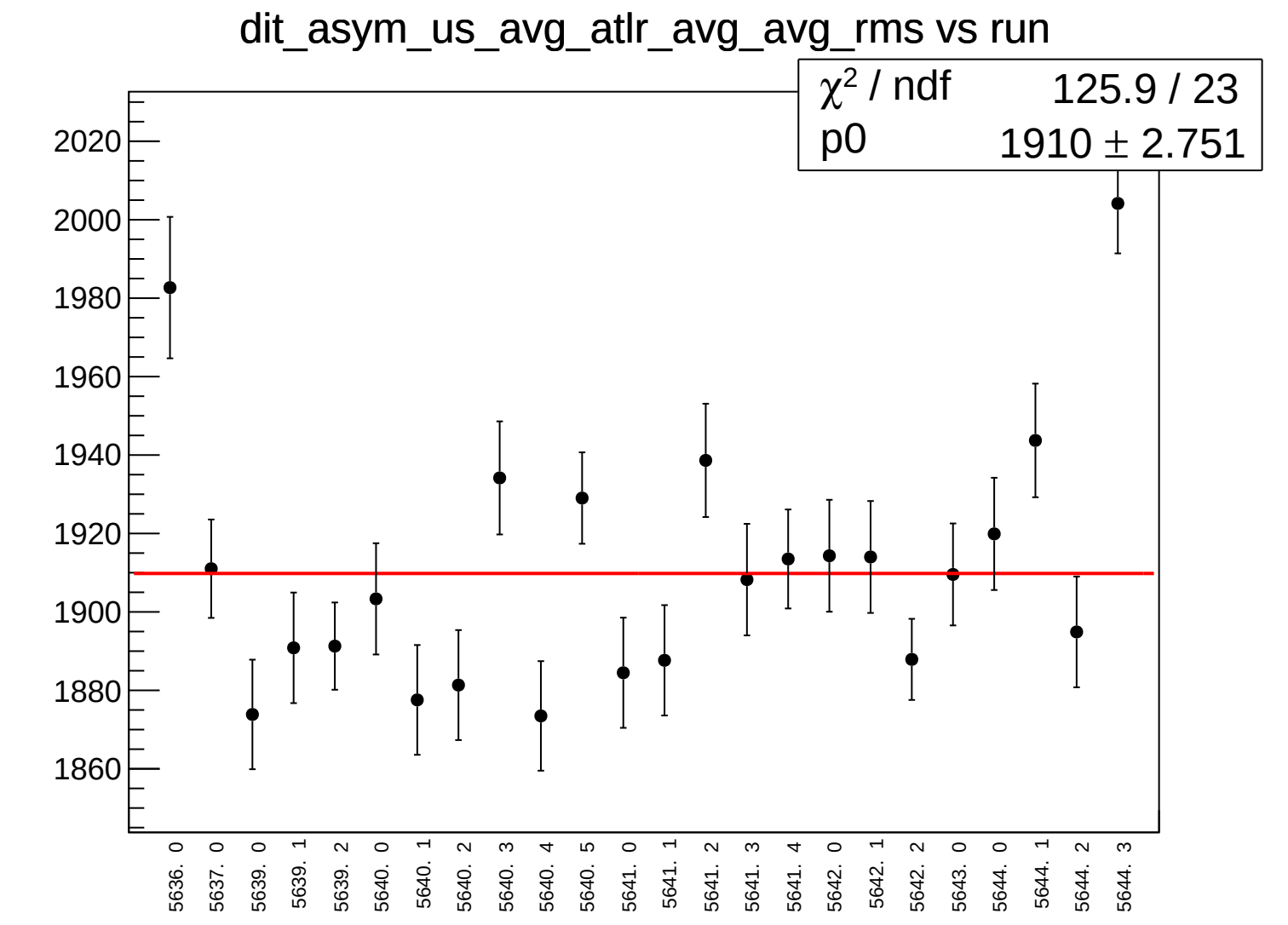

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 20.85 / 23
p0 −9115 ± 1.506e+04
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

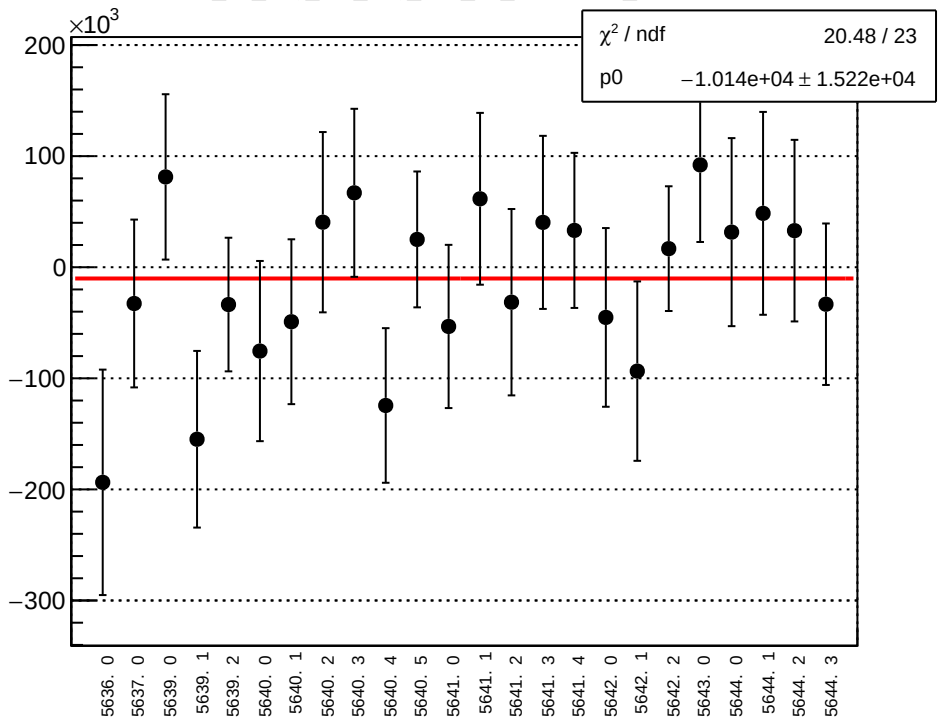

pull
Entries 24
Mean −83.84
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

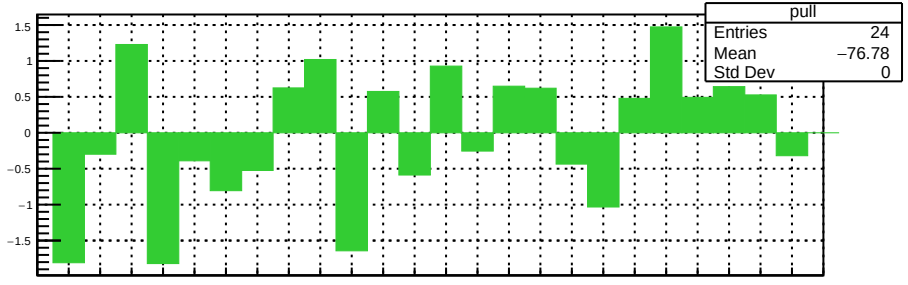

pull1D
Entries 24
Mean −0.02556
Std Dev 0.9317
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

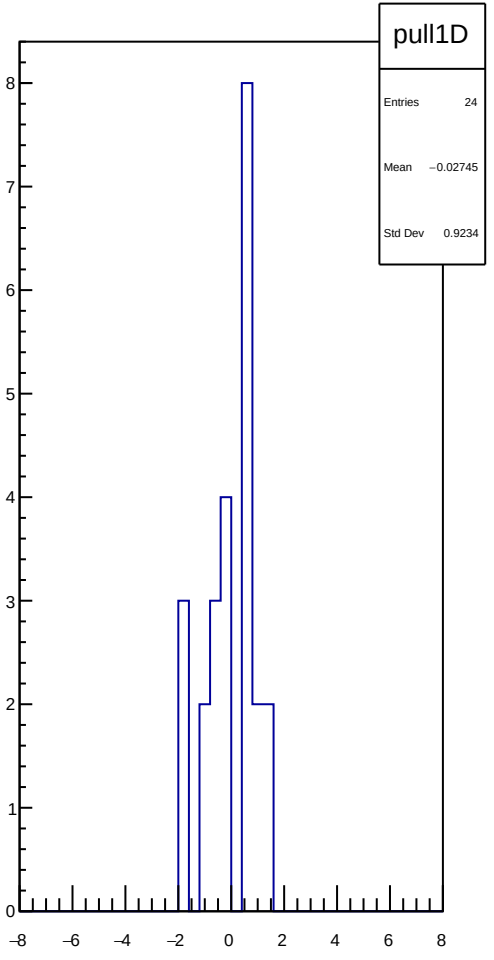

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 2024 / 23
p0 7380 ± 10.65
8500
8000
7500
7000
6500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

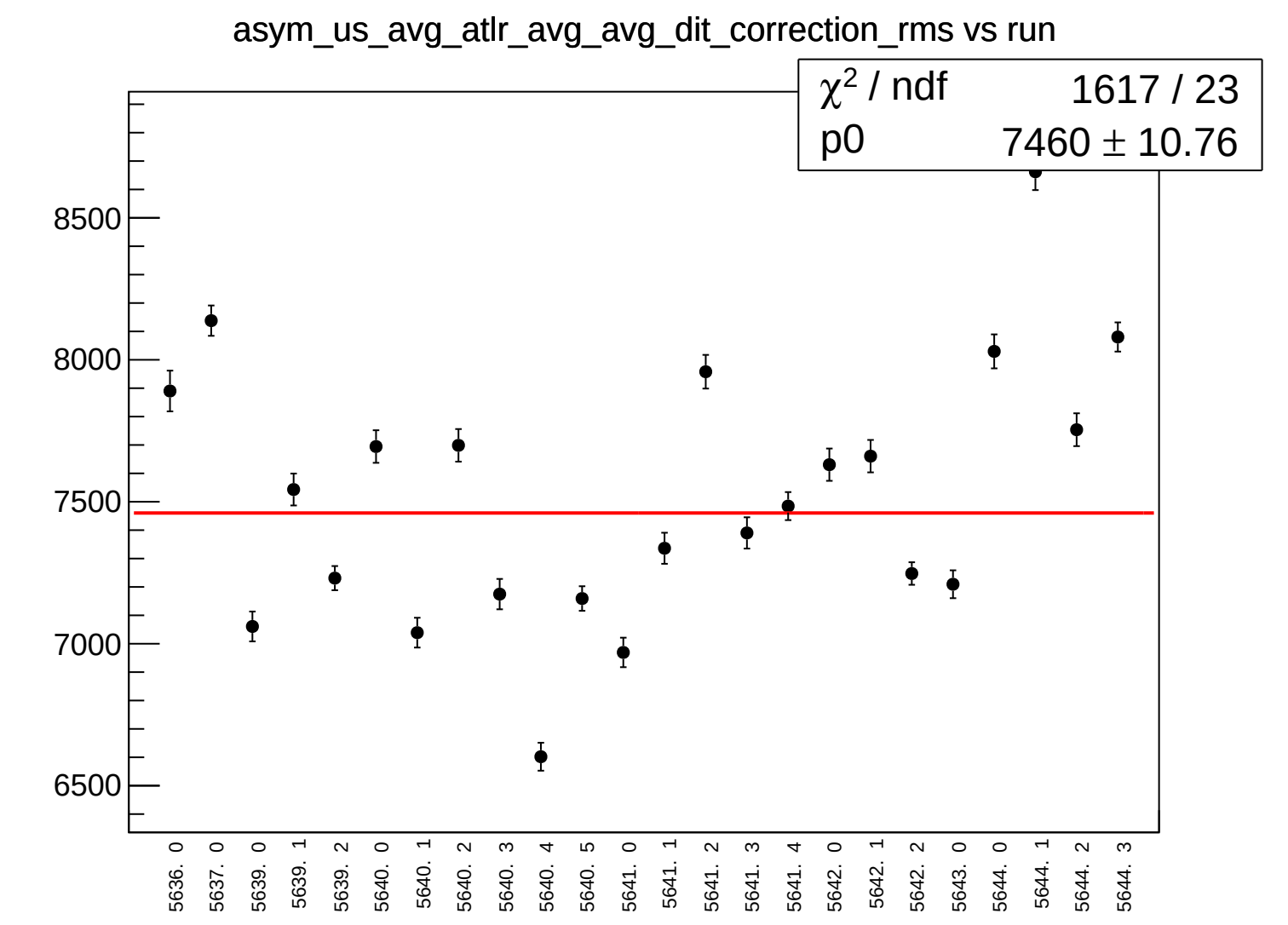

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 23.62 / 23
p0 −5562 ± 3890
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −63.88
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.02908
Std Dev 0.9916
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

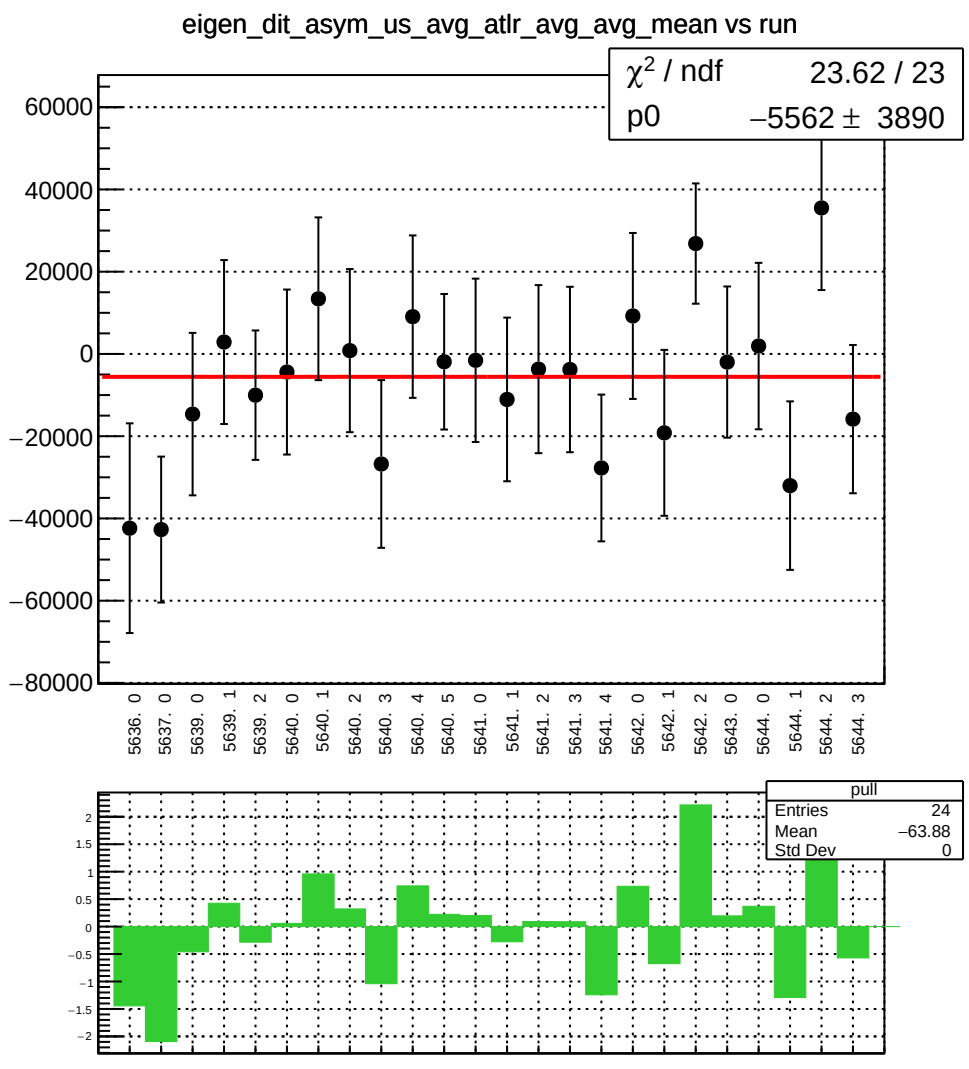

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 125.9 / 23
p0 1910 ± 2.751
2020
2000
1980
1960
1940
1920
1900
1880
1860
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

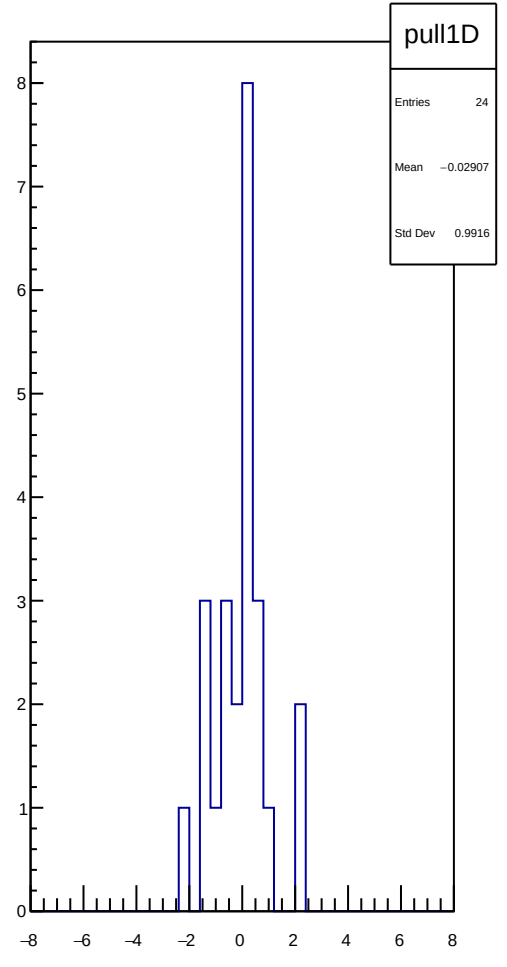

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 20.48 / 23
p0 −1.014e+04 ± 1.522e+04
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

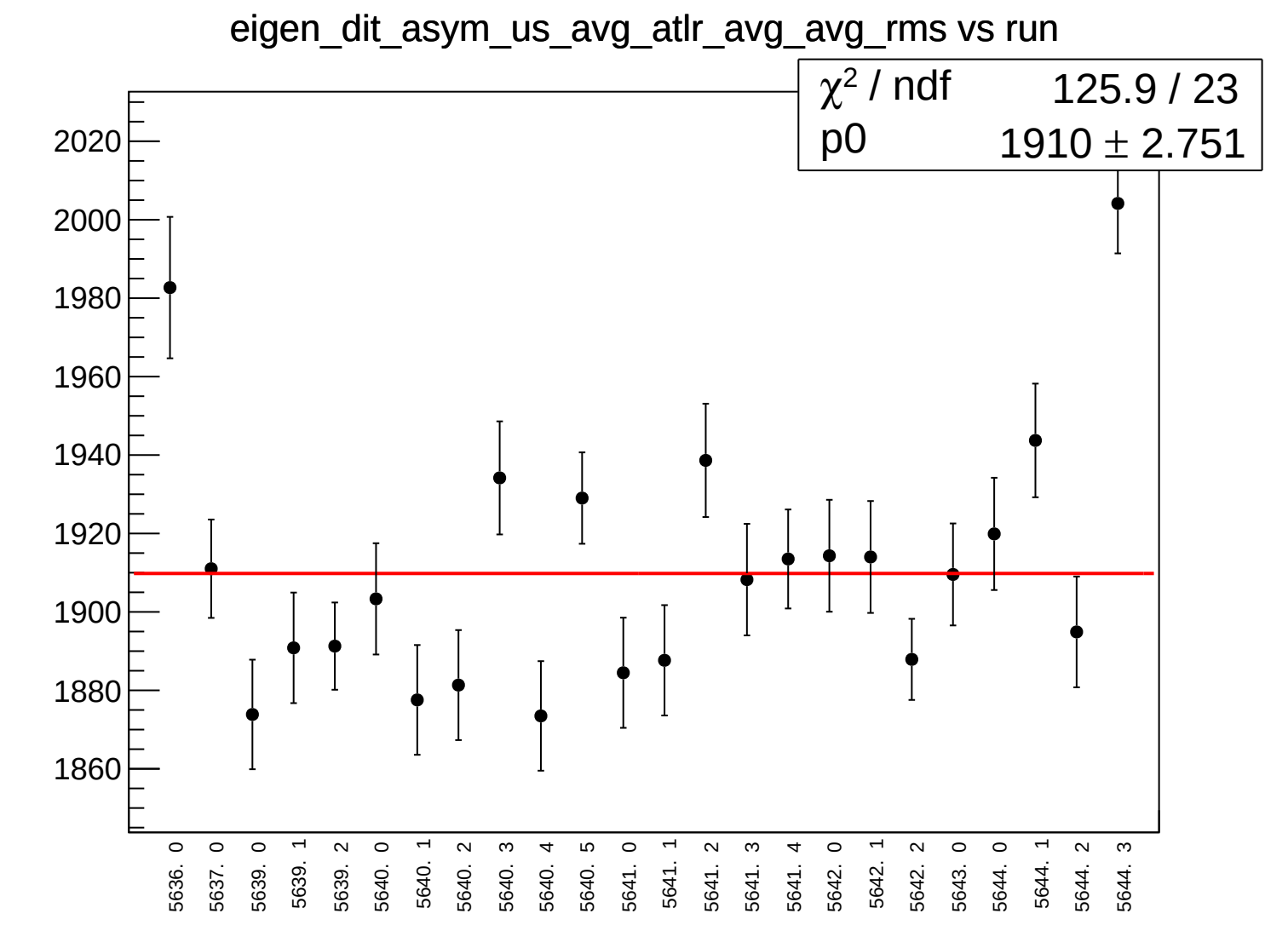

pull
Entries 24
Mean −76.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

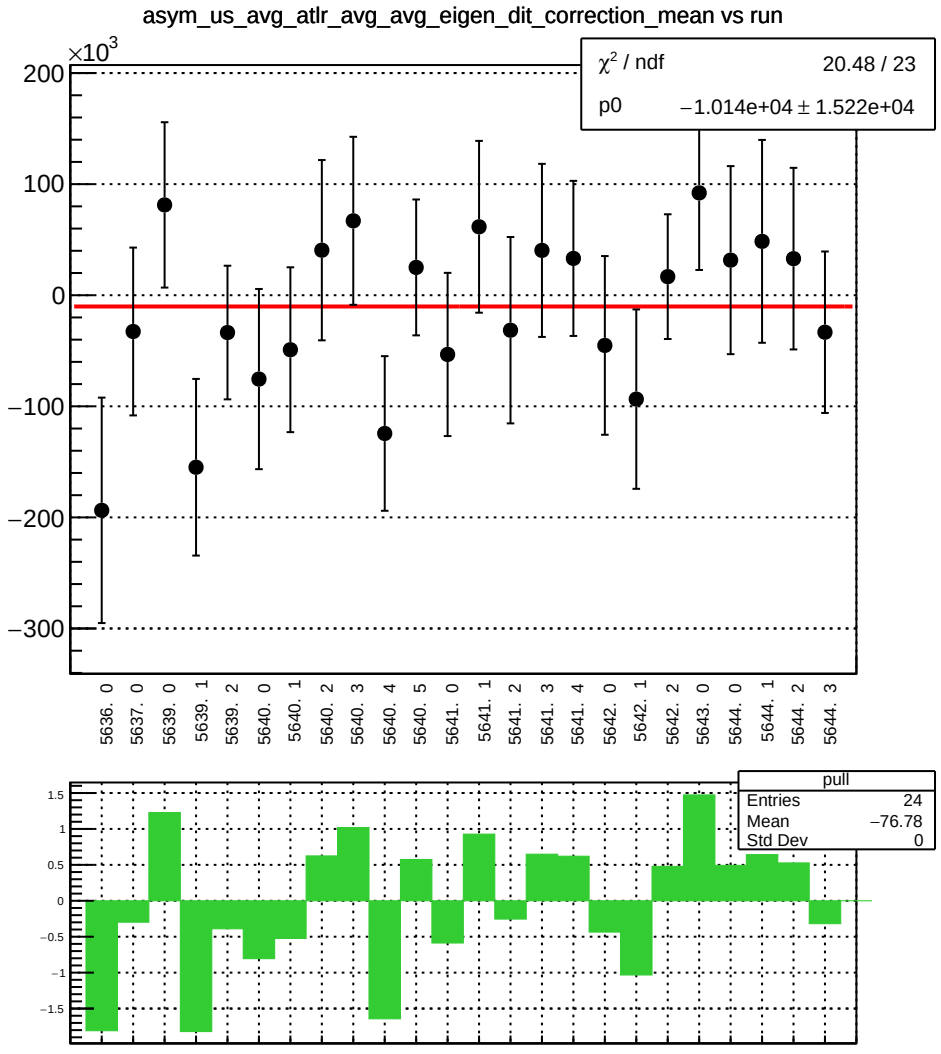

pull1D
Entries 24
Mean −0.02745
Std Dev 0.9234
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

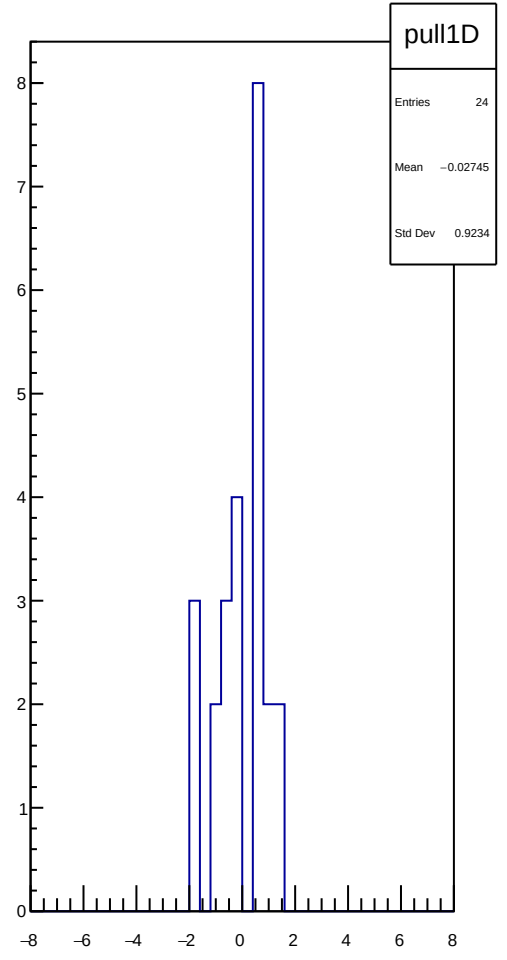

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 1617 / 23
p0 7460 ± 10.76
8500
8000
7500
7000
6500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

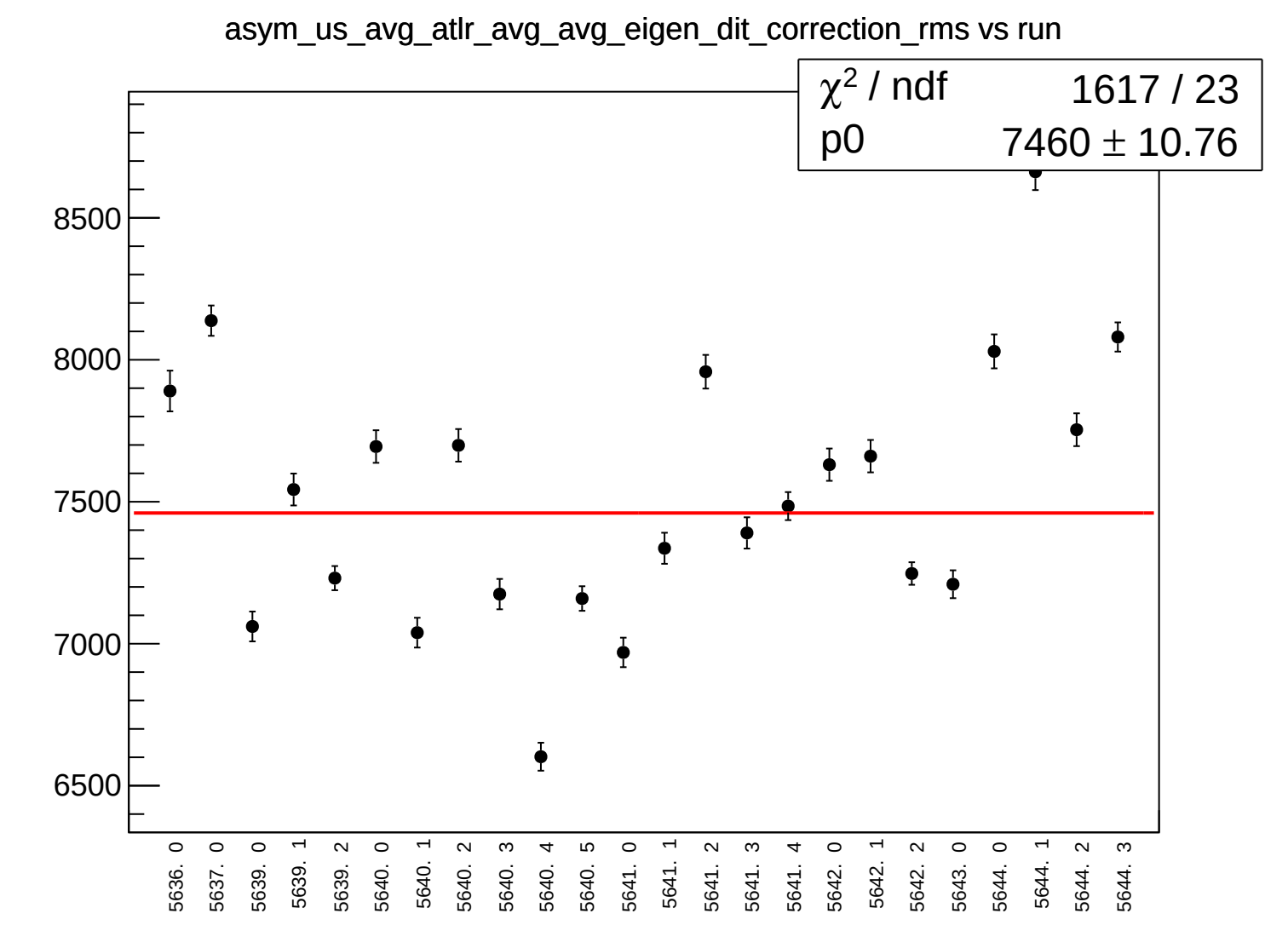

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 23.62 / 23
p0 −5562 ± 3890
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −63.88
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

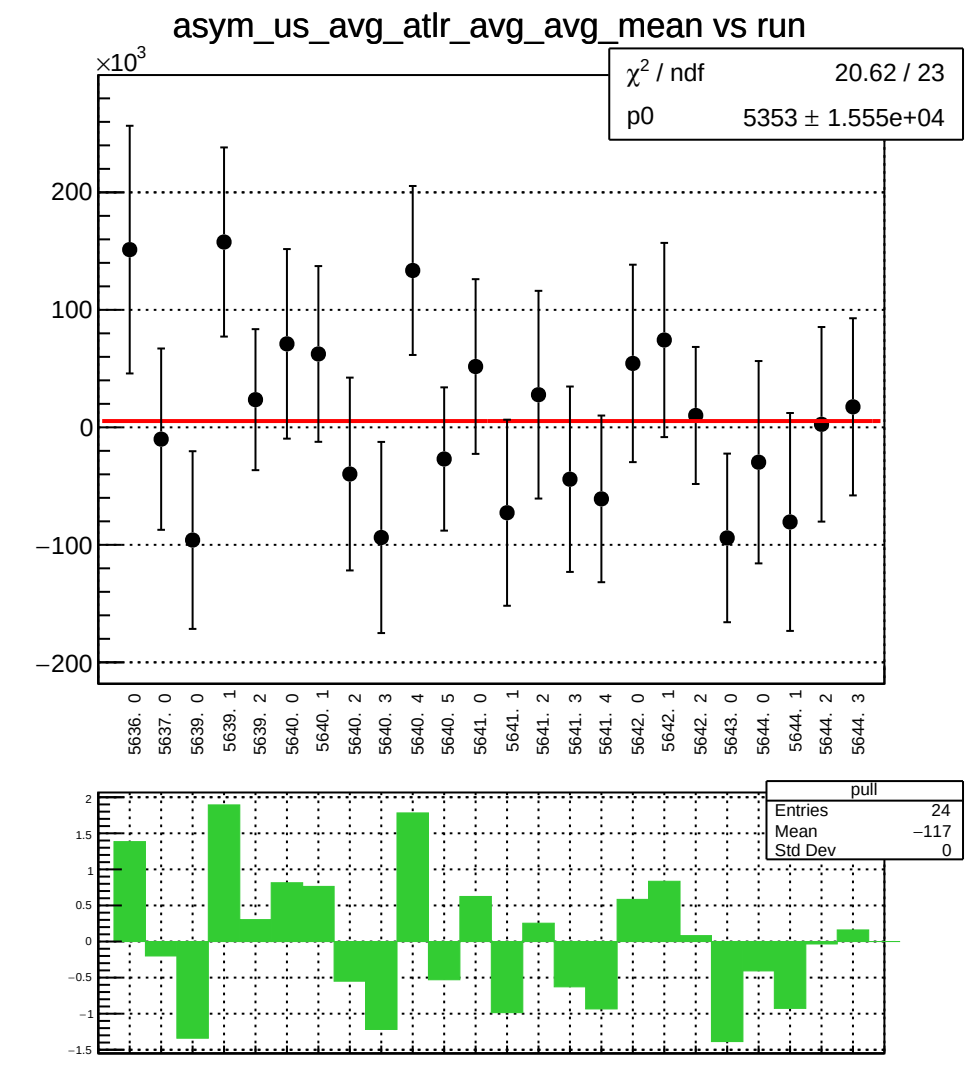

pull1D
Entries 24
Mean −0.02907
Std Dev 0.9916
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

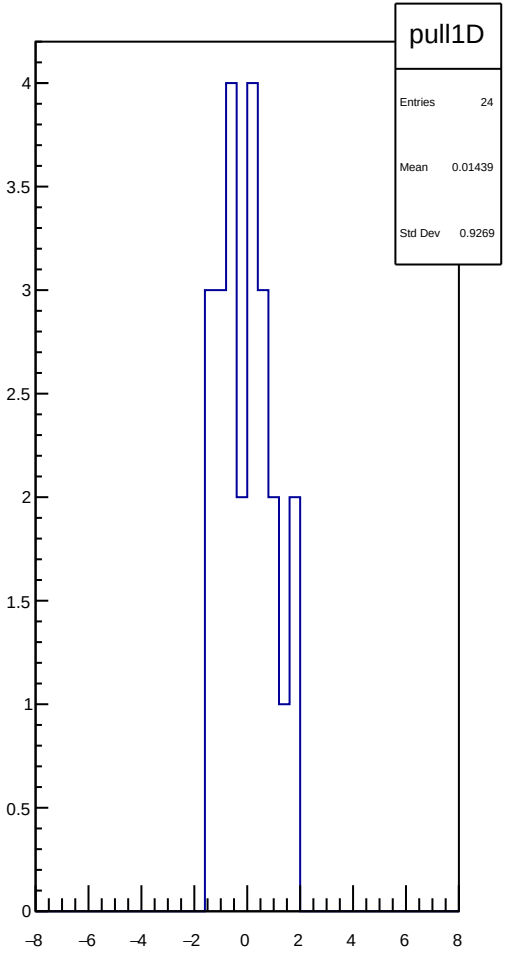

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 125.9 / 23
p0 1910 ± 2.751
2020
2000
1980
1960
1940
1920
1900
1880
1860
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

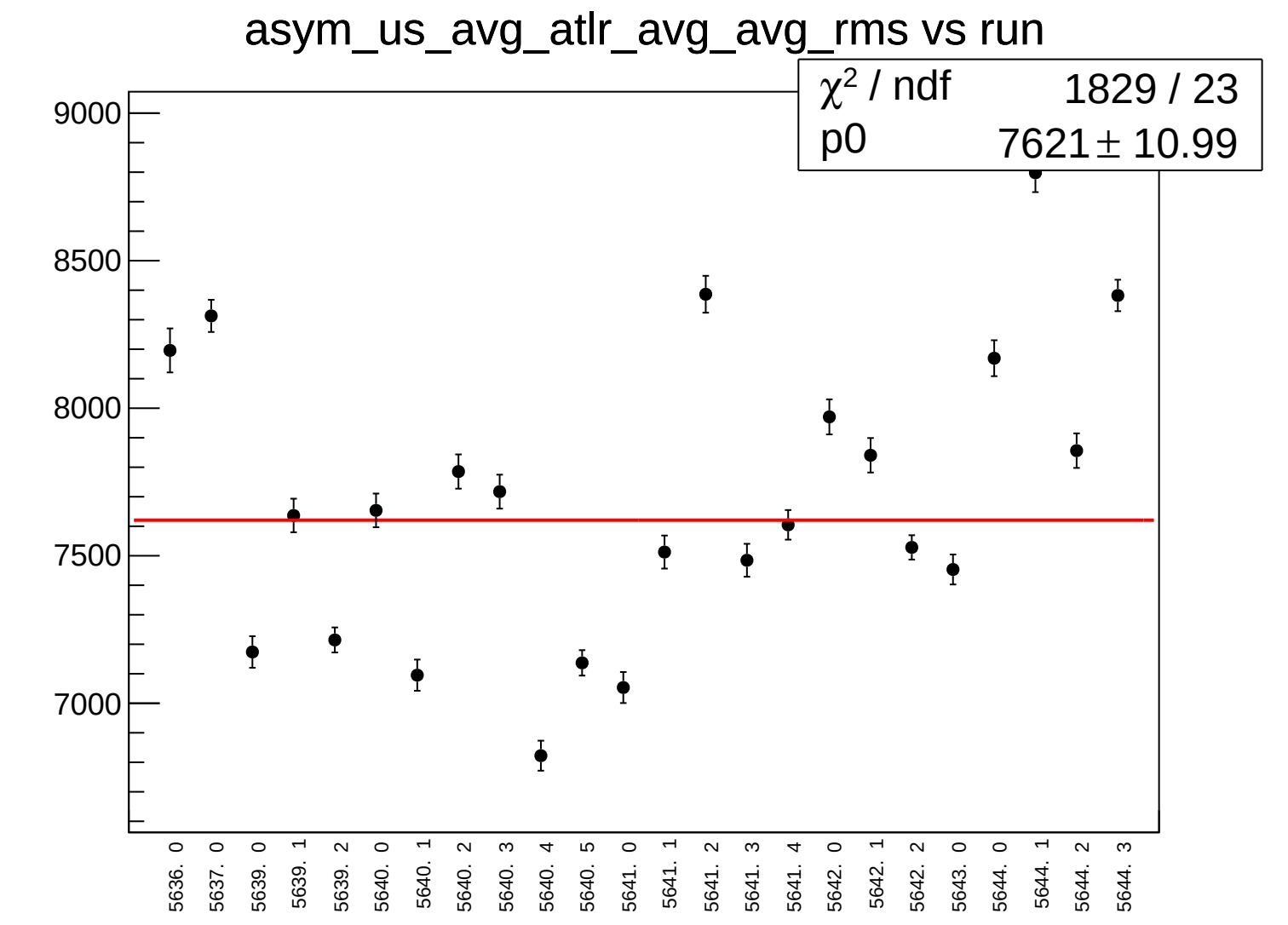

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 20.48 / 23
p0 −1.014e+04 ± 1.522e+04
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −76.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

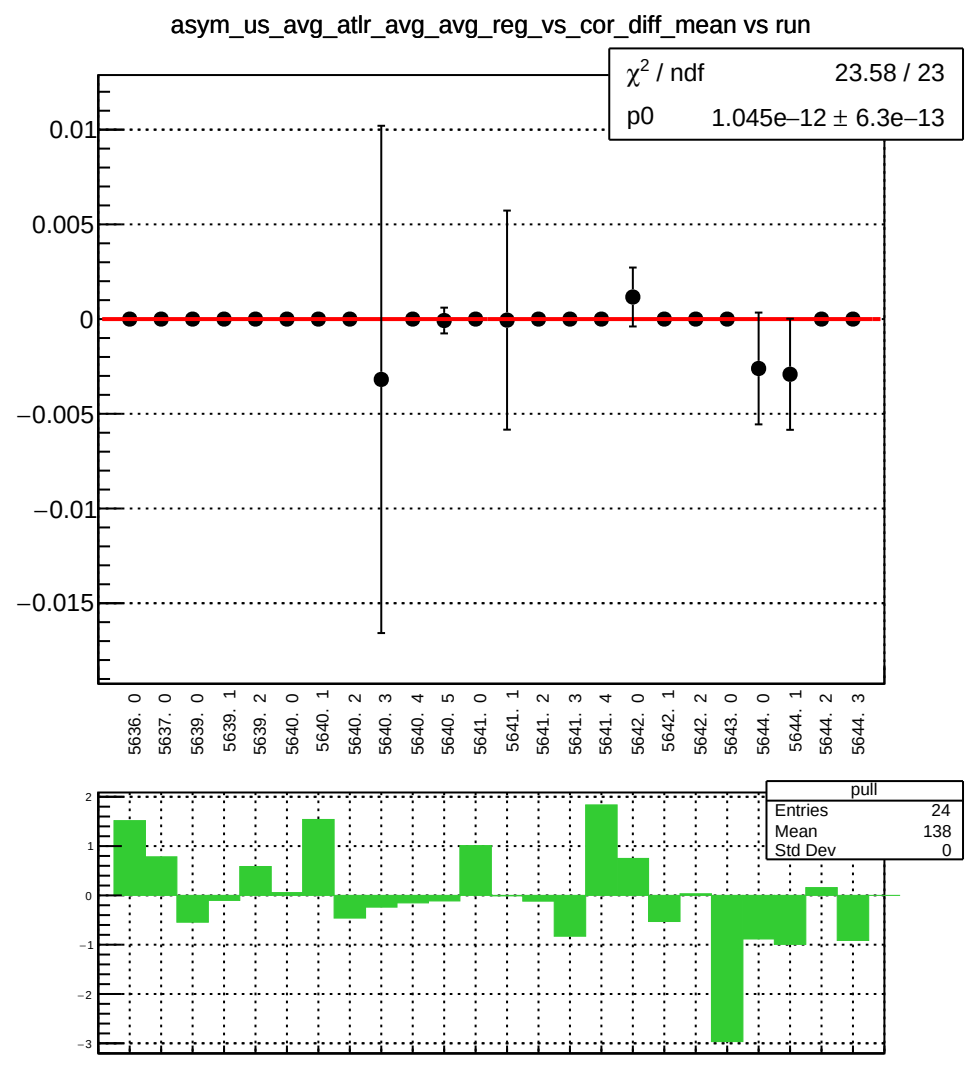

pull1D
Entries 24
Mean −0.02745
Std Dev 0.9234
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

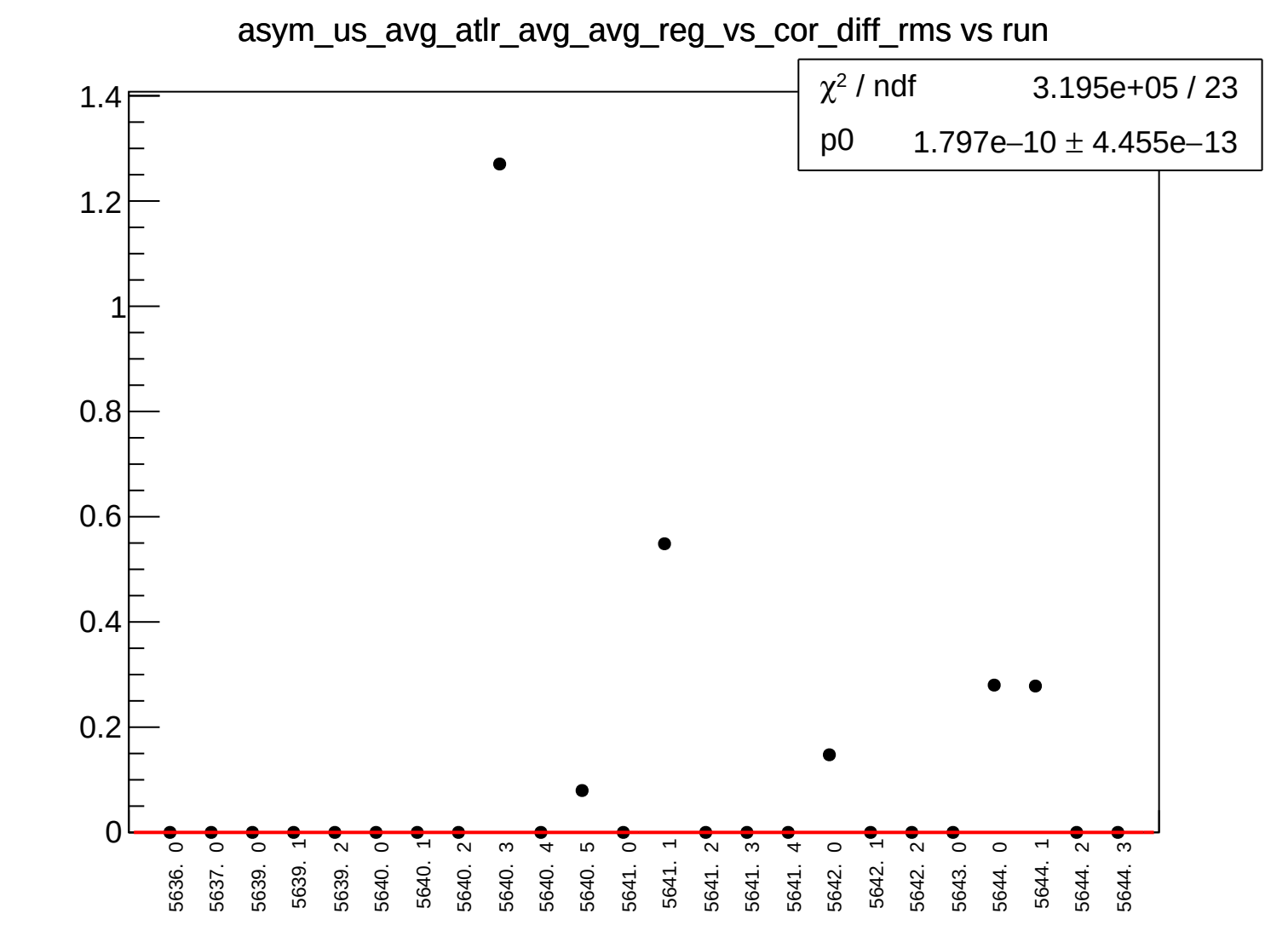

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1617 / 23
p0 7460 ± 10.76
8500
8000
7500
7000
6500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

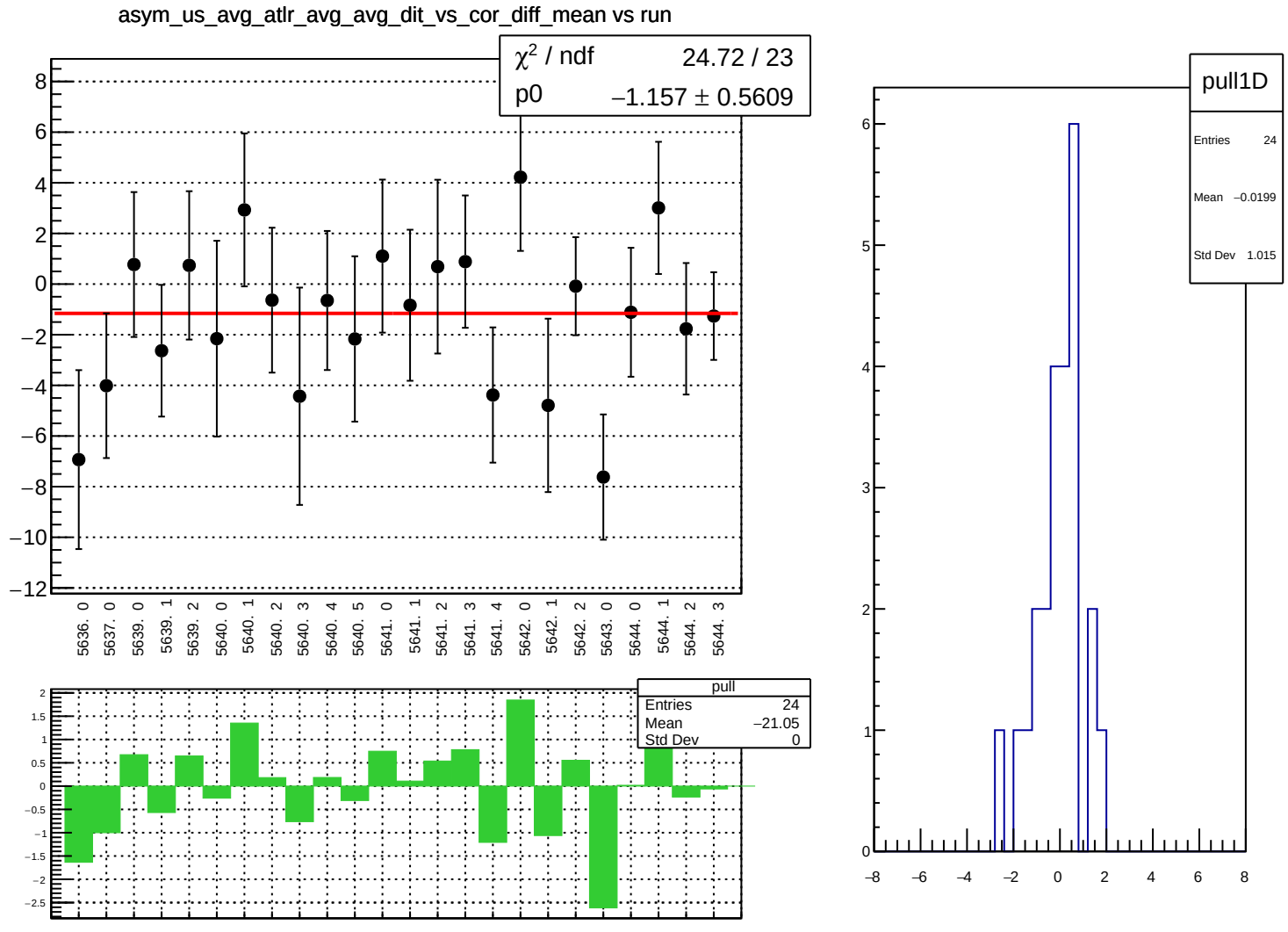

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 20.62 / 23
p0 5353 ± 1.555e+04
200
100
0
−100
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −117
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

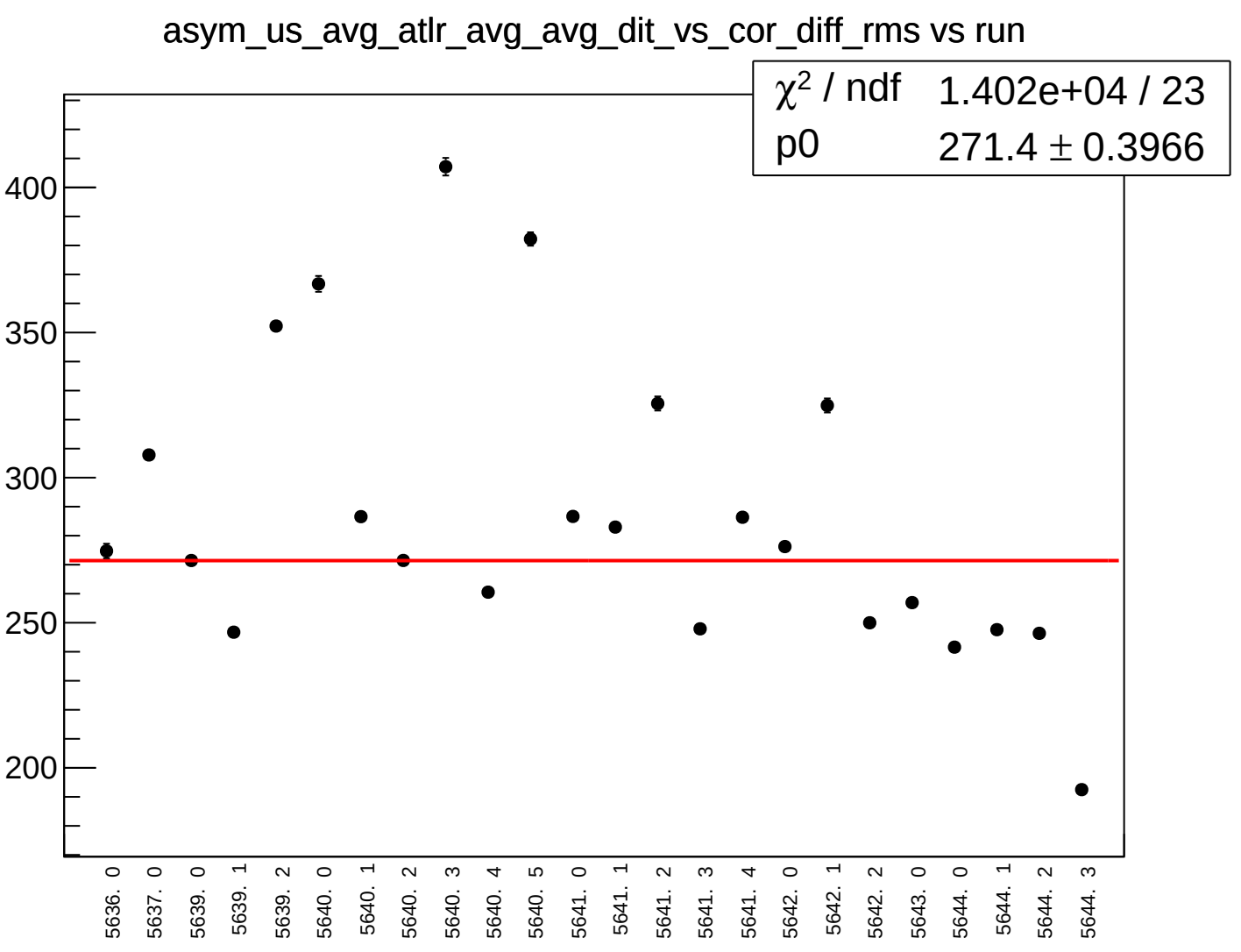

pull1D
Entries 24
Mean 0.01439
Std Dev 0.9269
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

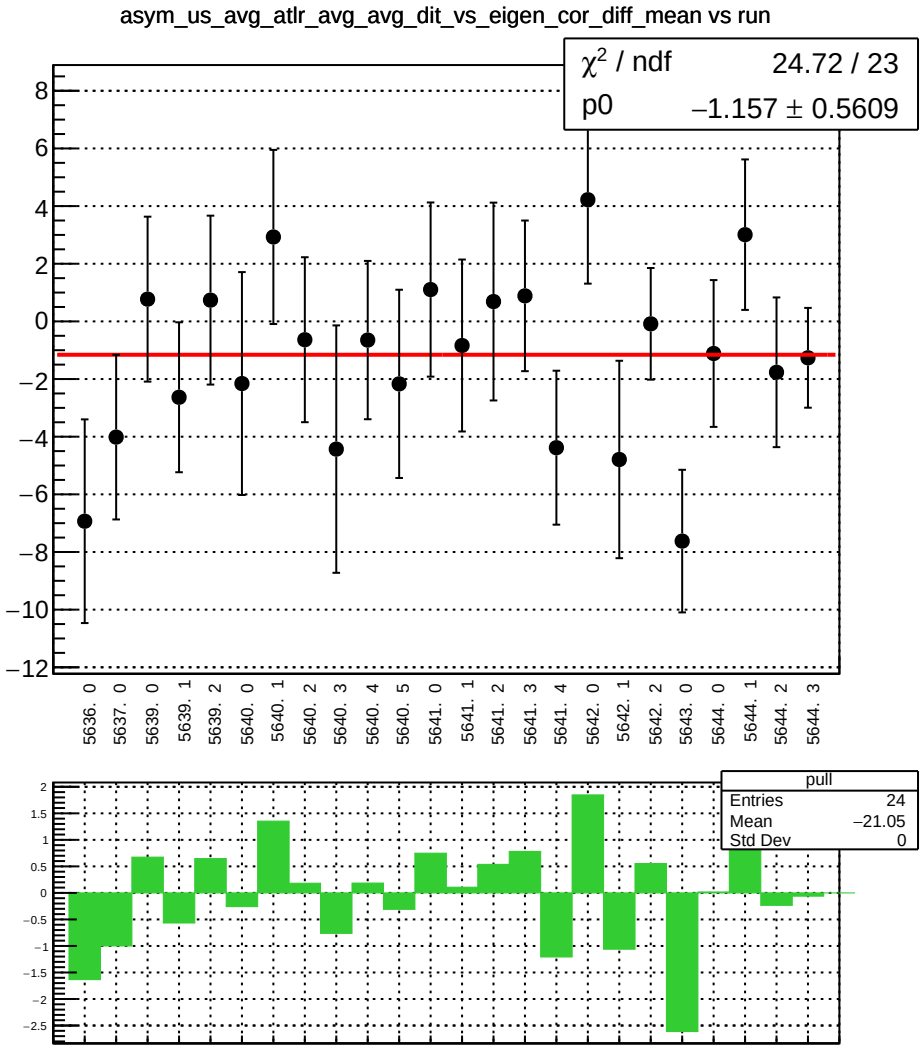

asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 1829 / 23
p0 7621 ± 10.99
9000
8500
8000
7500
7000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

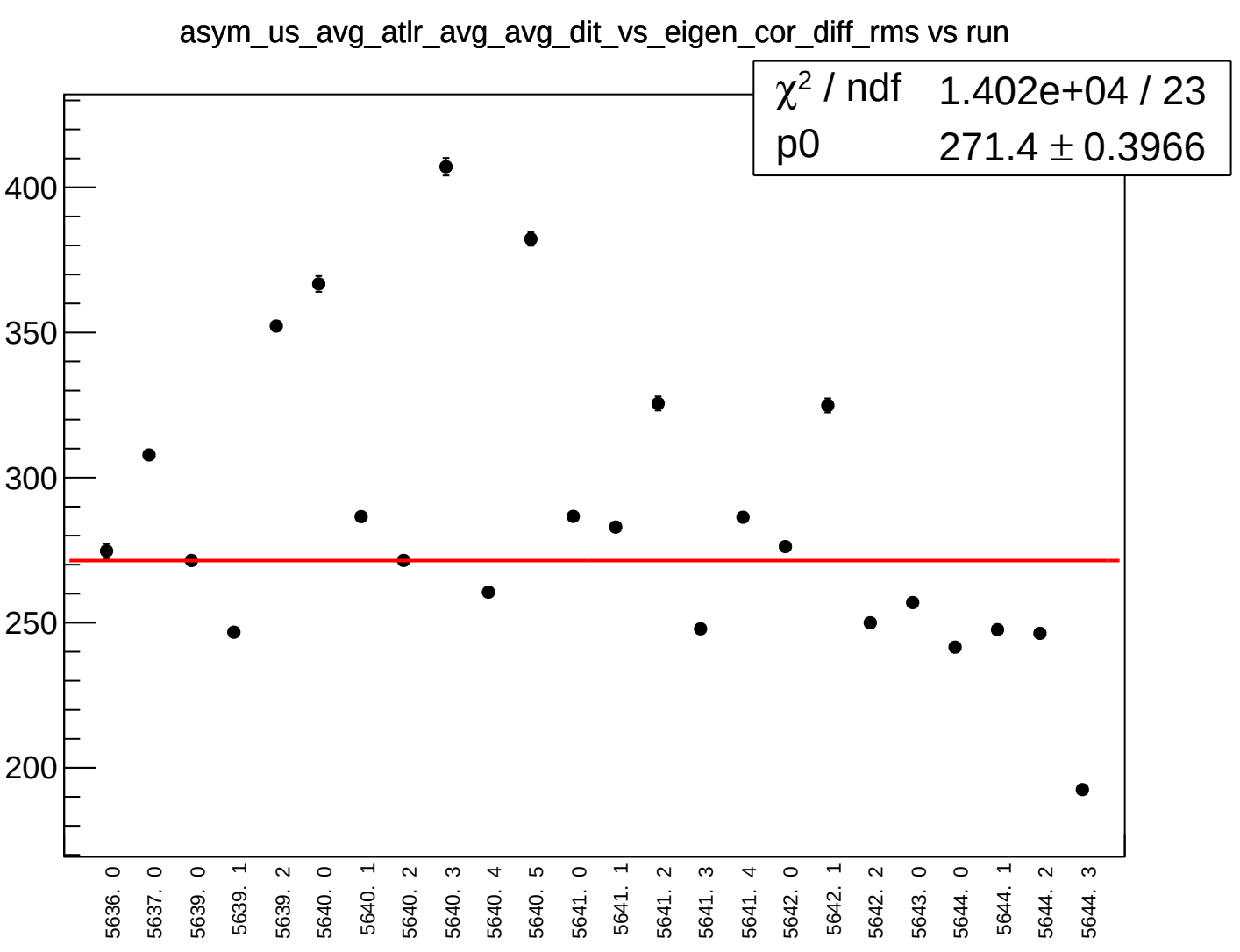

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 23.58 / 23
p0 1.045e−12 ± 6.3e−13
0.01
0.005
0
−0.005
−0.01
−0.015
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 138
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean −0.02417
Std Dev 0.991
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

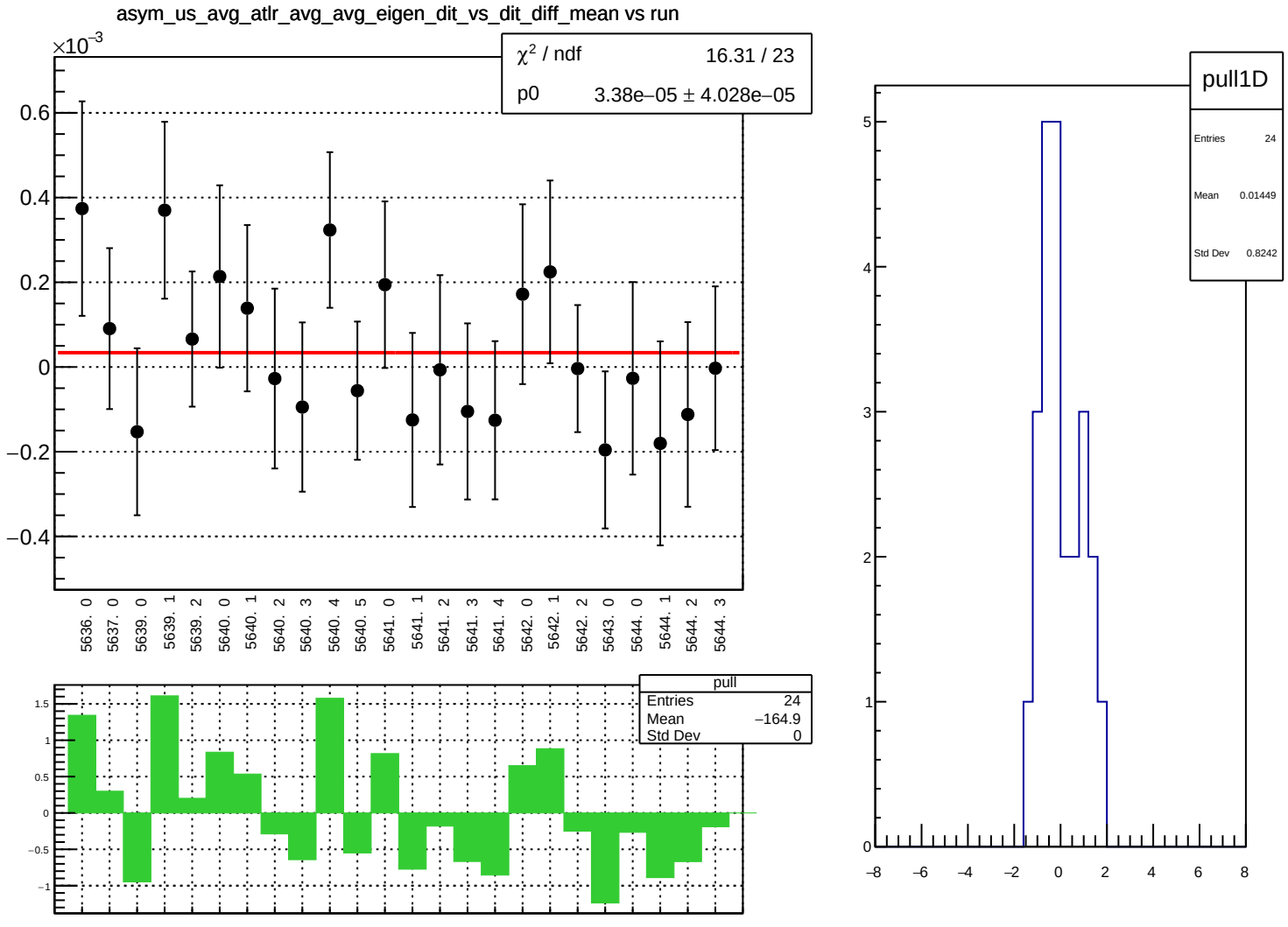

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.195e+05 / 23
p0 1.797e−10 ± 4.455e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

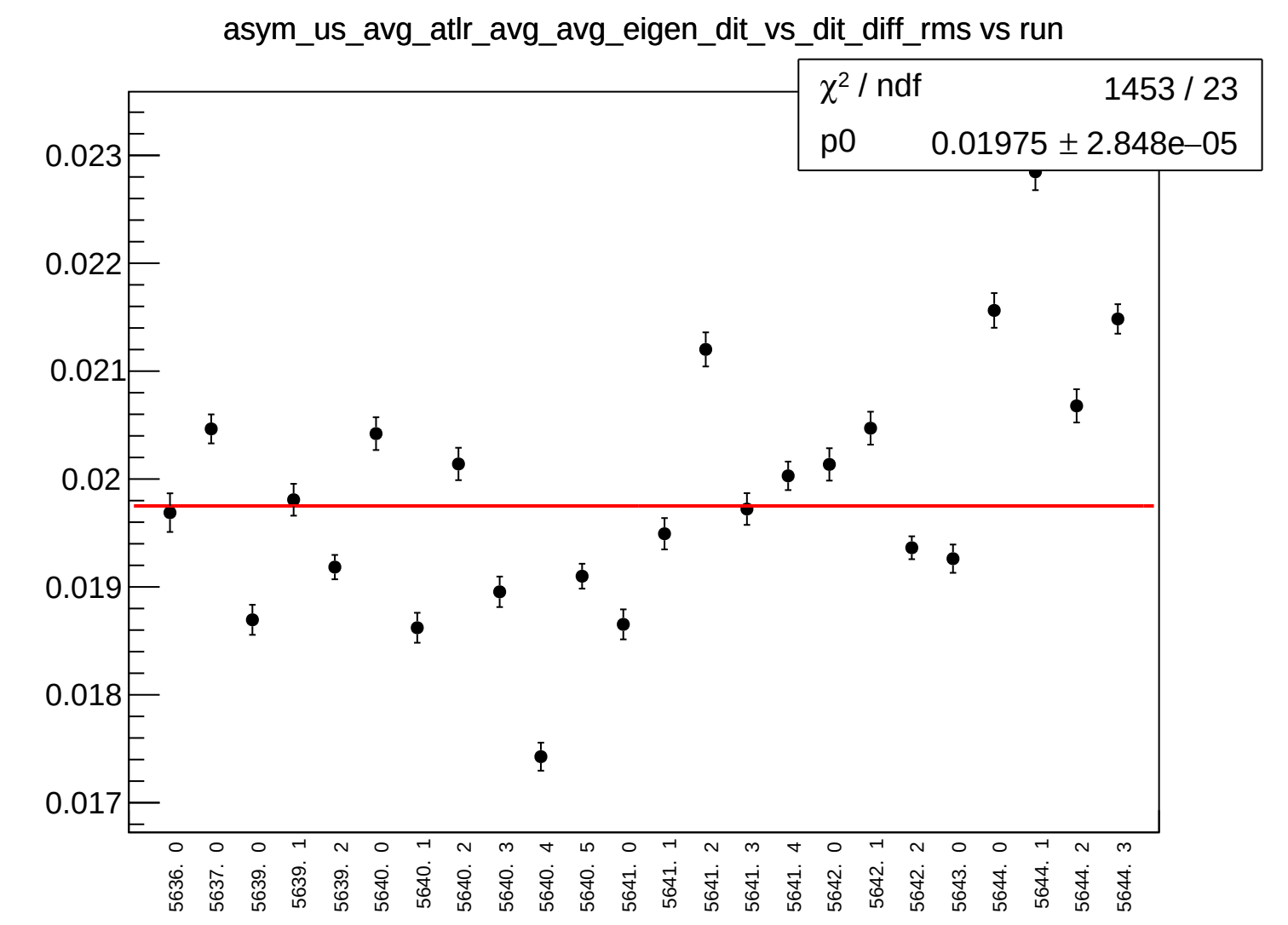

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 24.72 / 23
p0 −1.157 ± 0.5609
8
6
4
2
0
−2
−4
−6
−8
−10
−12
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −21.05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean −0.0199
Std Dev 1.015
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

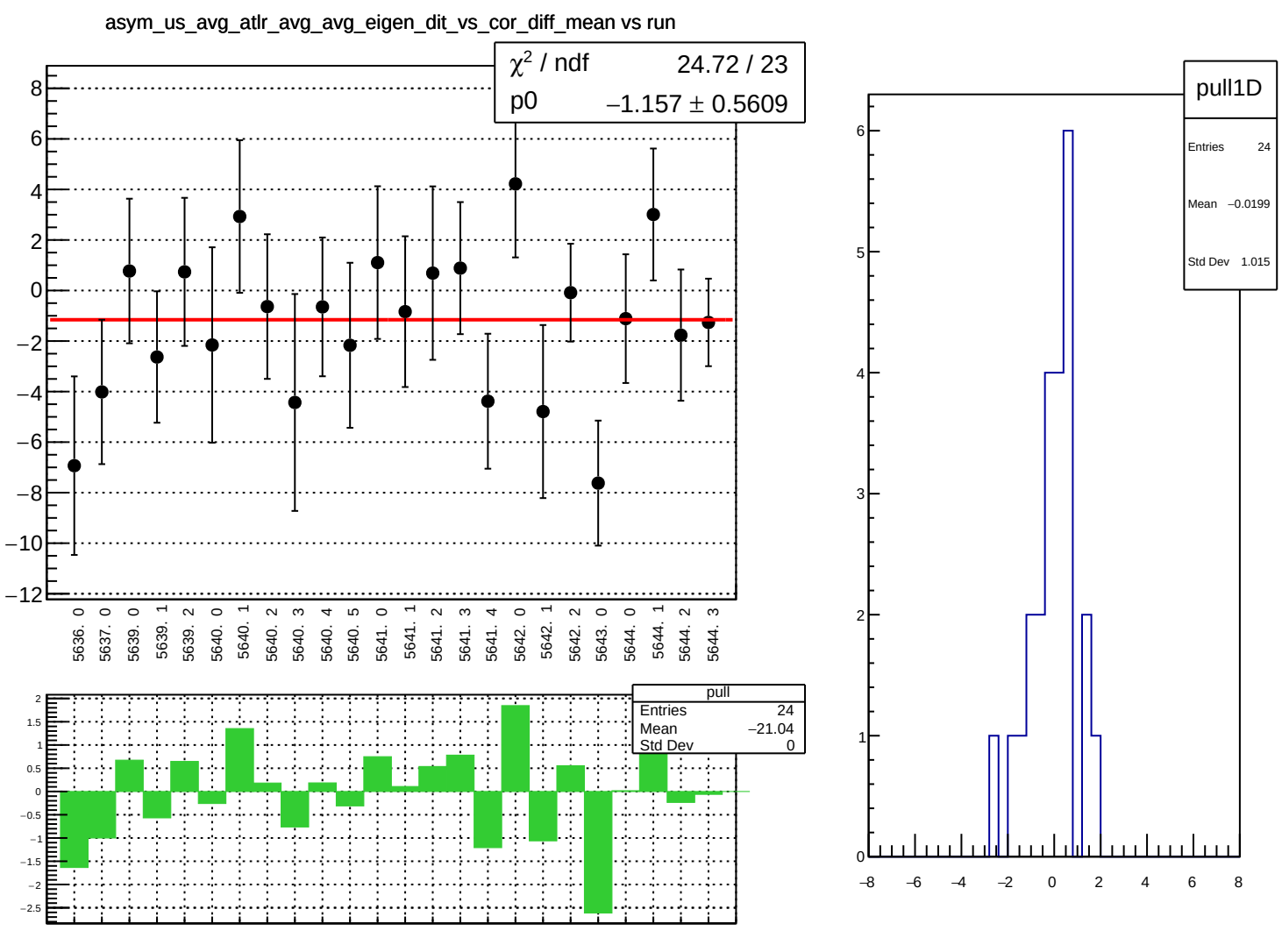

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.402e+04 / 23
p0 271.4 ± 0.3966
400
350
300
250
200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

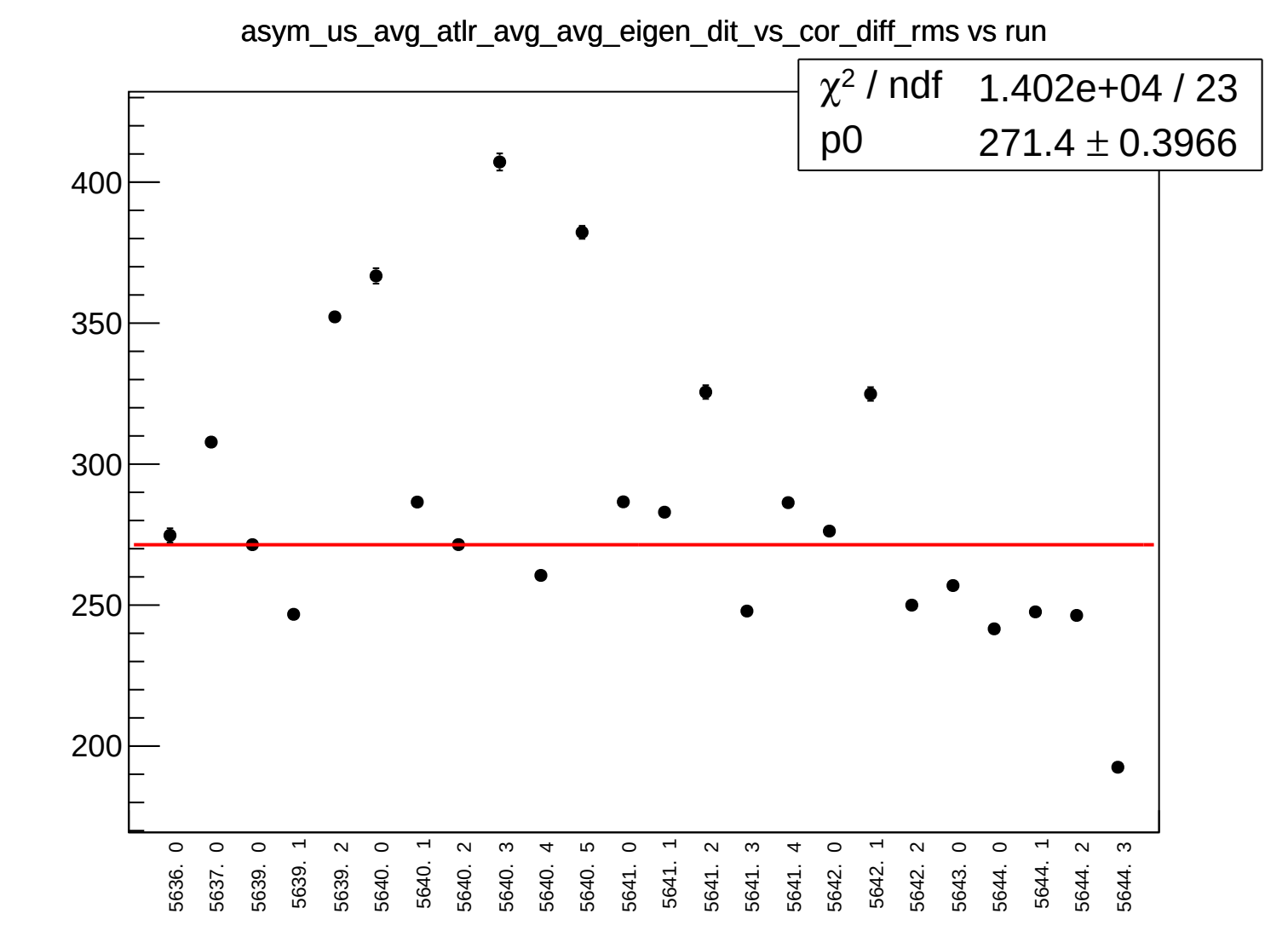

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.72 / 23
p0 −1.157 ± 0.5609
8
6
4
2
0
−2
−4
−6
−8
−10
−12
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −21.05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean −0.0199
Std Dev 1.015
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

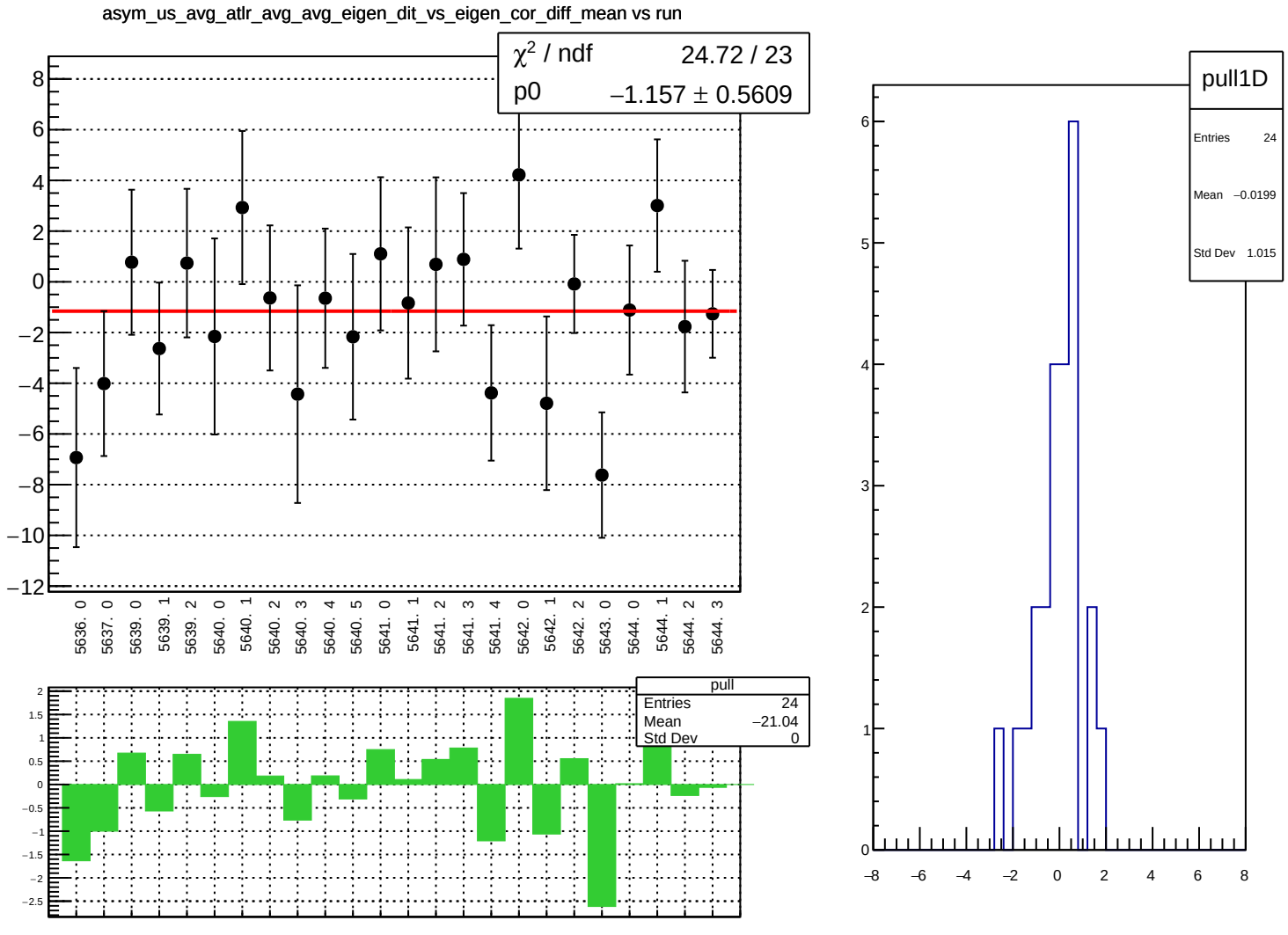

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.402e+04 / 23
p0 271.4 ± 0.3966
400
350
300
250
200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

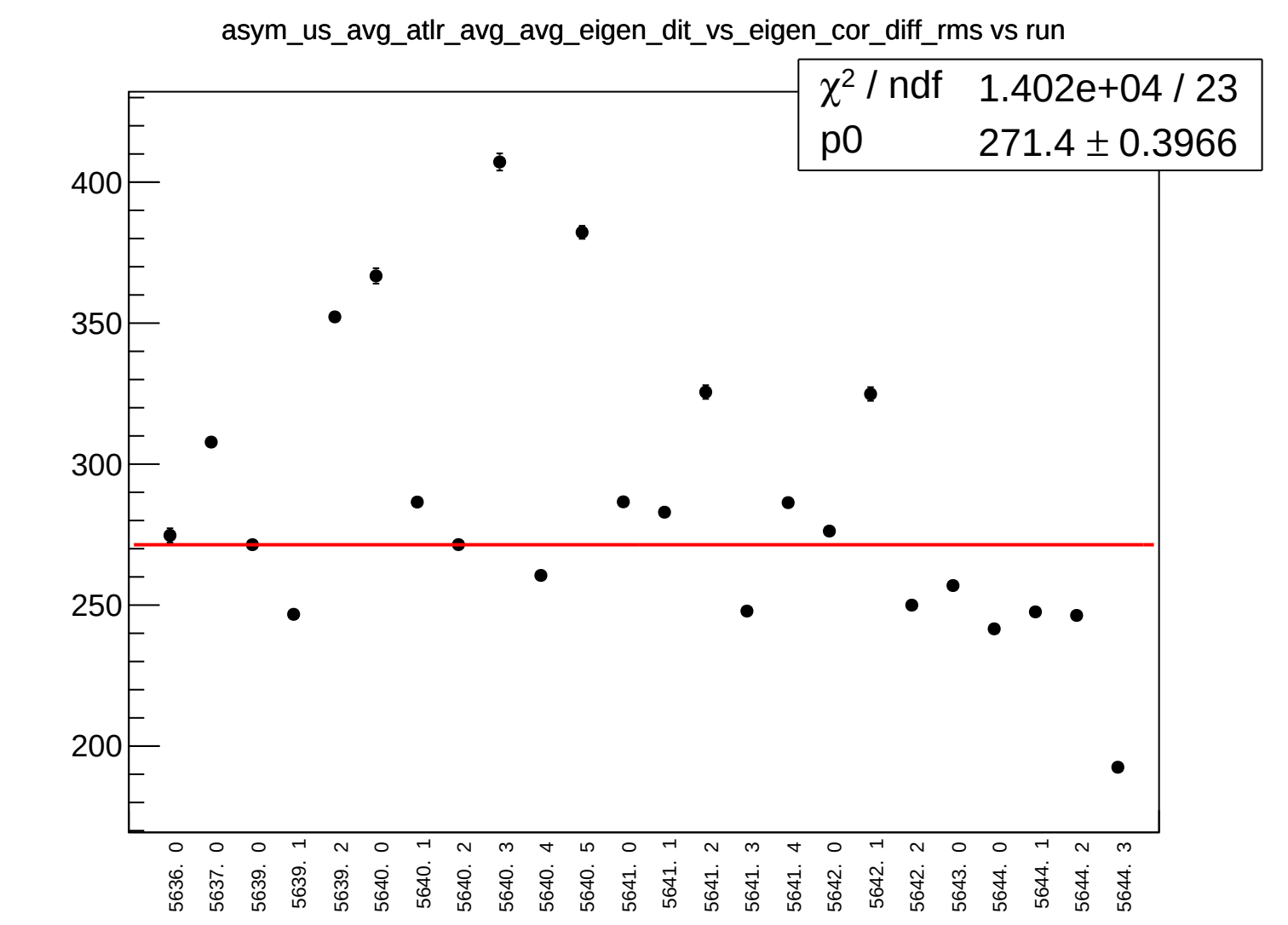

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 16.31 / 23
p0 3.38e−05 ± 4.028e−05
0.6
0.4
0.2
0
−0.2
−0.4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −164.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.01449
Std Dev 0.8242
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

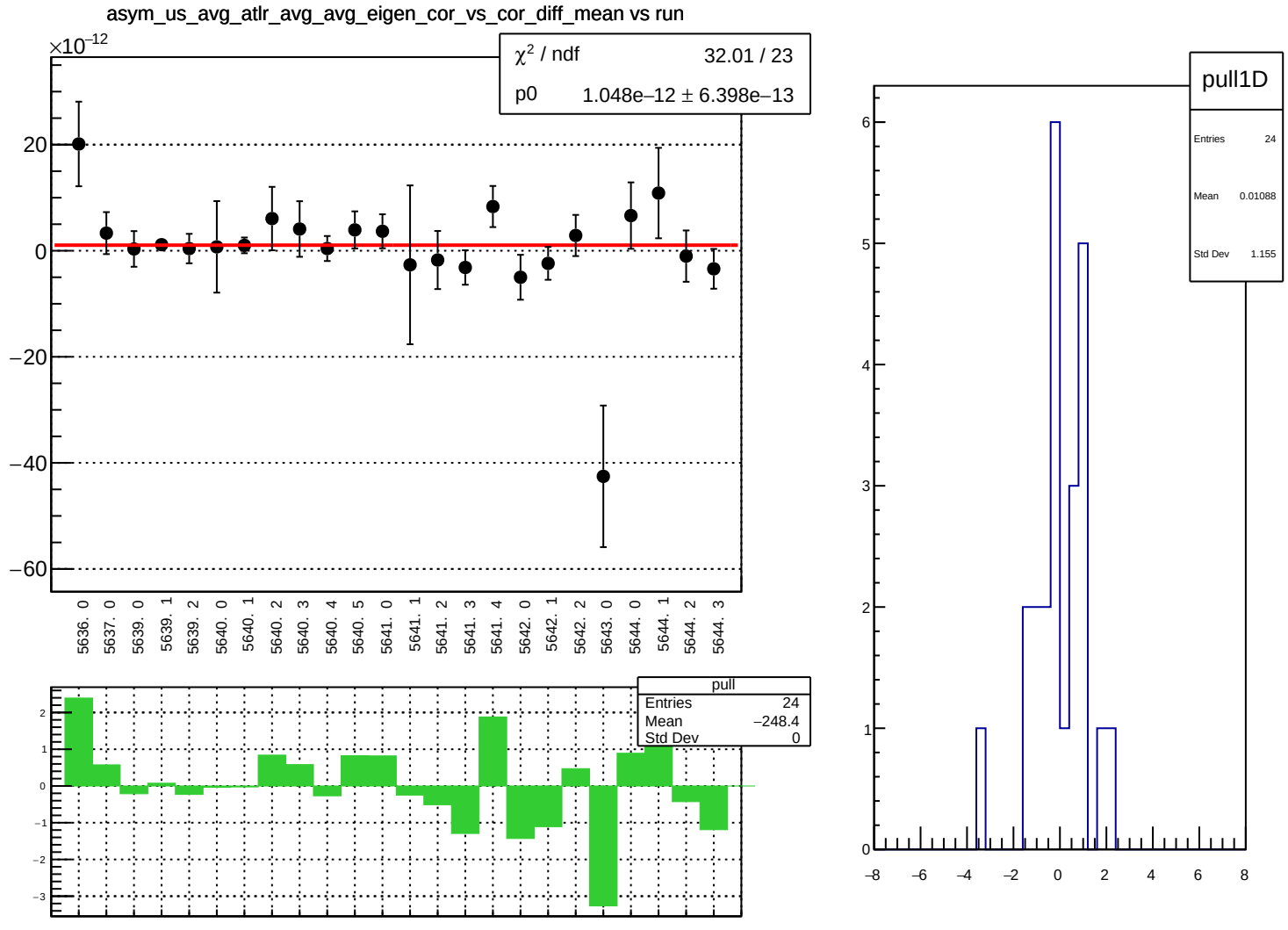

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1453 / 23
p0 0.01975 ± 2.848e–05
0.023
0.022
0.021
0.02
0.019
0.018
0.017
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

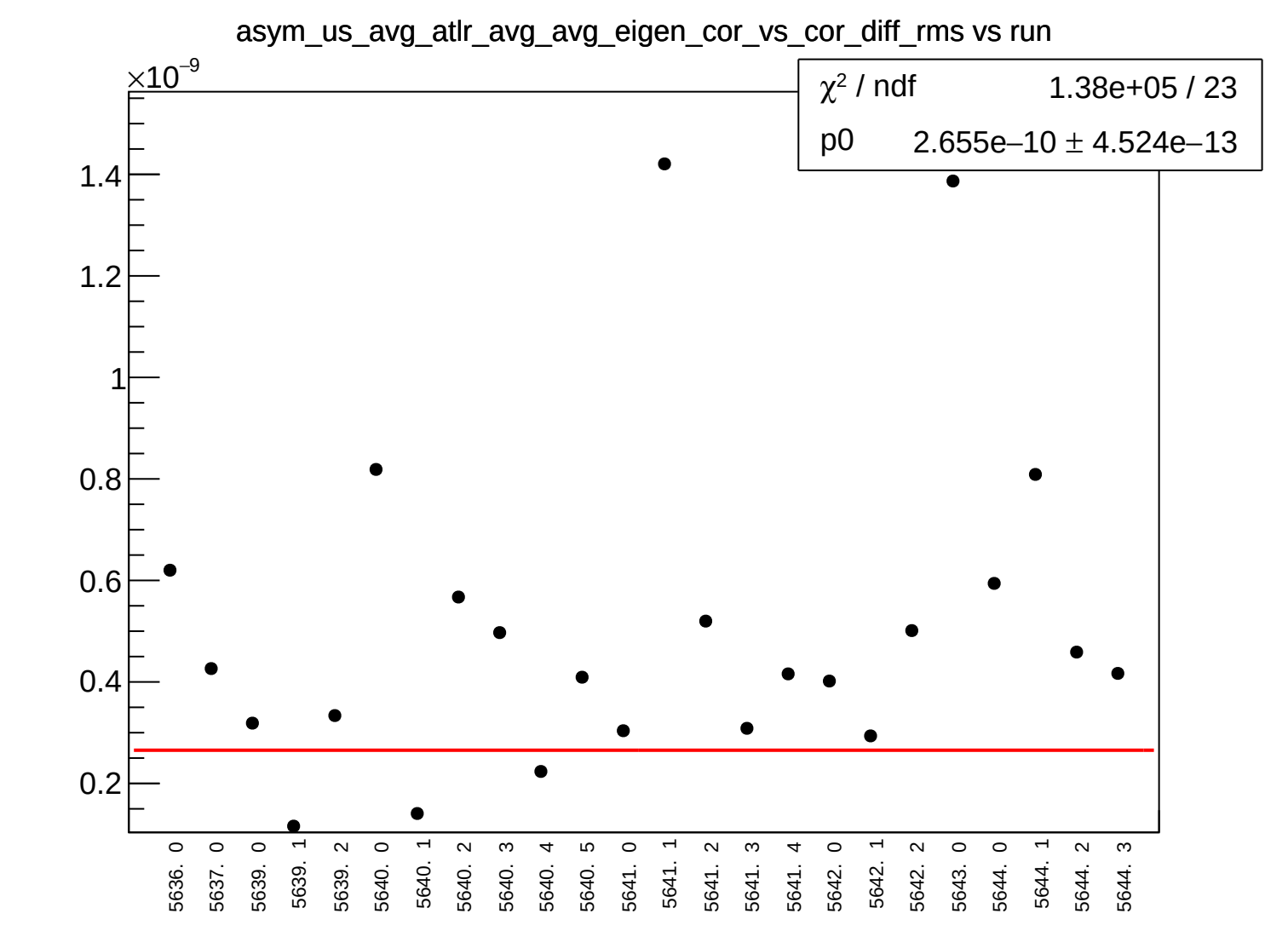

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 24.72 / 23
p0 −1.157 ± 0.5609
8
6
4
2
0
−2
−4
−6
−8
−10
−12
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −21.04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean −0.0199
Std Dev 1.015
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

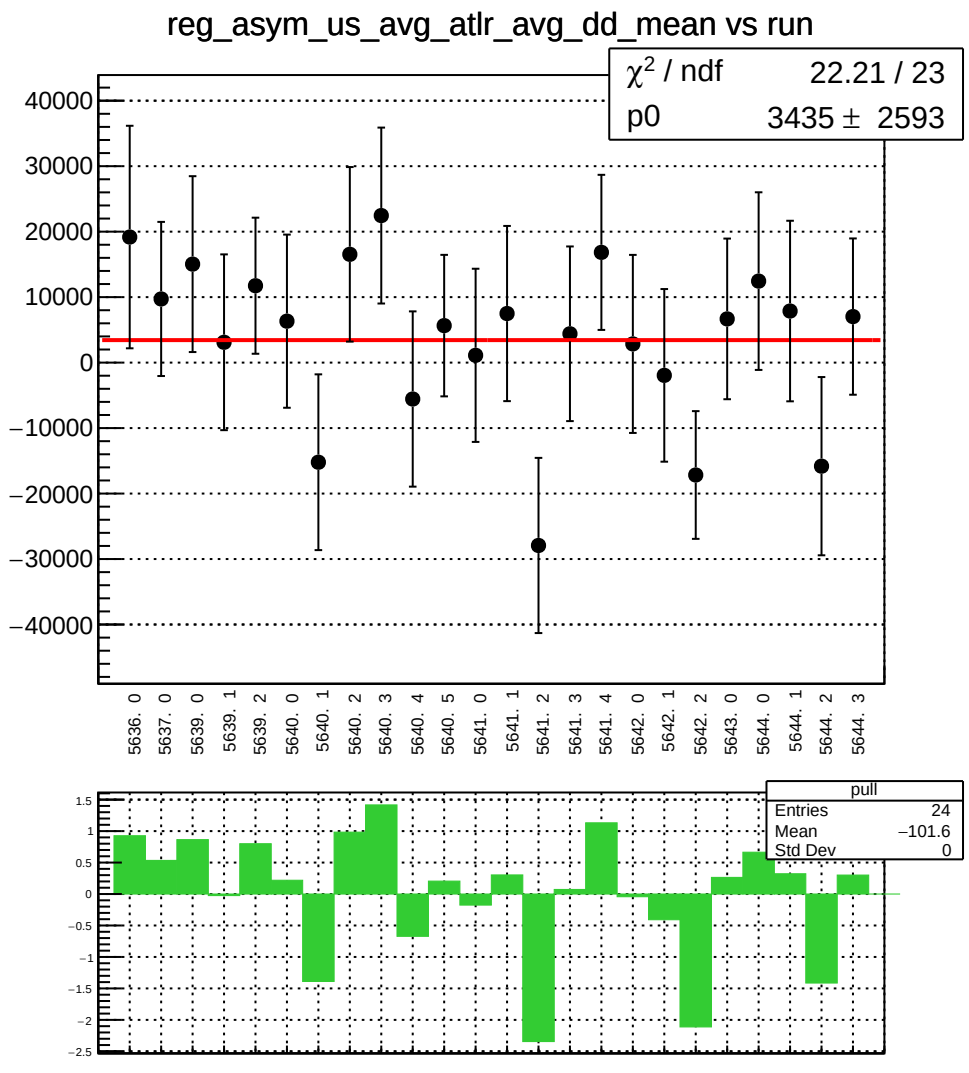

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.402e+04 / 23
p0 271.4 ± 0.3966
400
350
300
250
200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

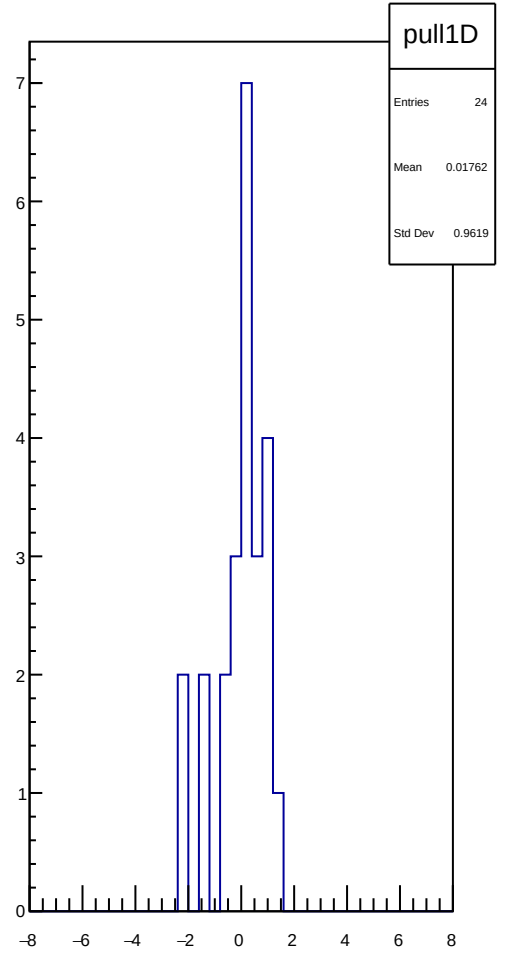

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.72 / 23
p0 −1.157 ± 0.5609
8
6
4
2
0
−2
−4
−6
−8
−10
−12
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −21.04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean −0.0199
Std Dev 1.015
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

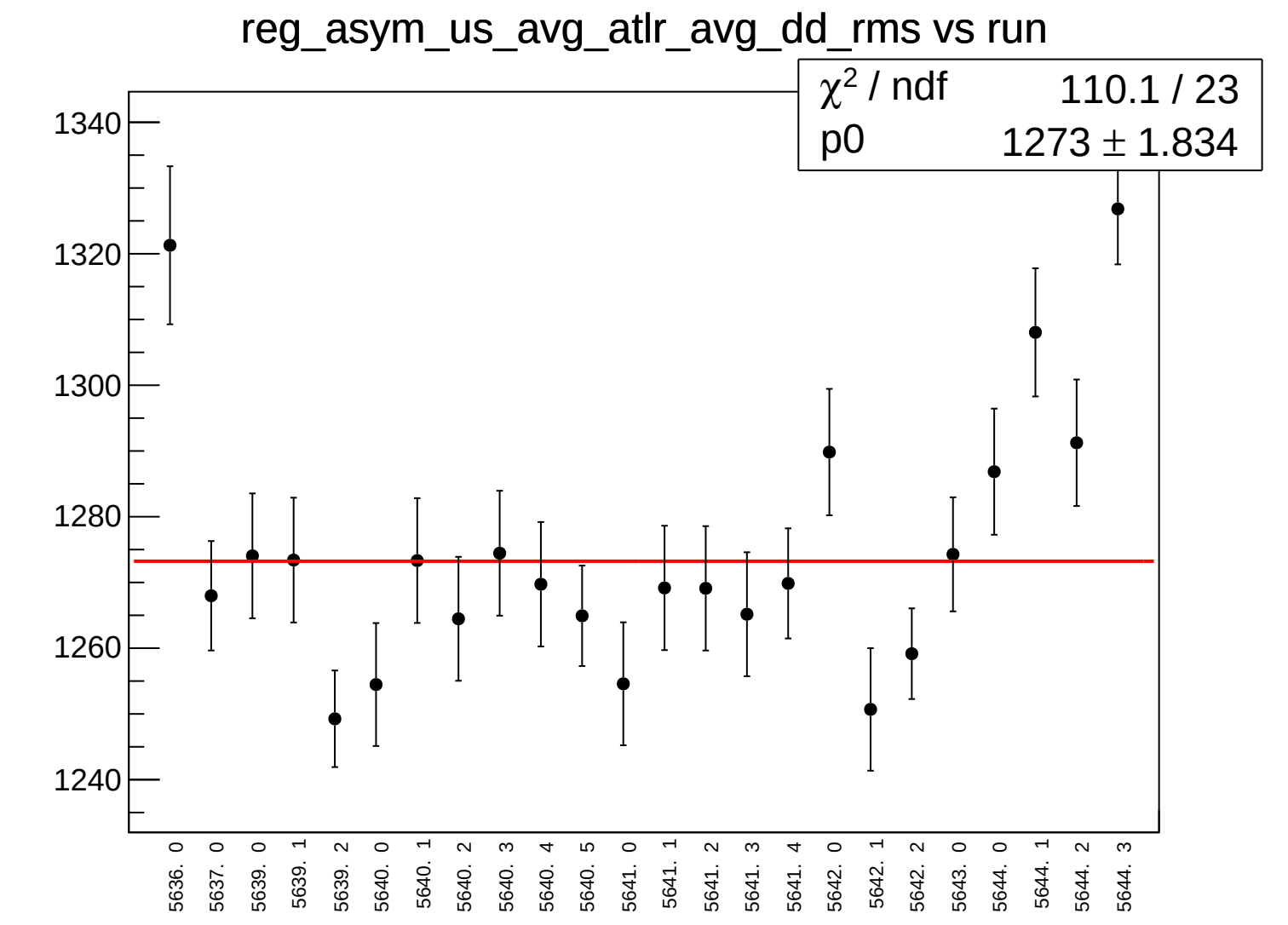

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.402e+04 / 23
p0 271.4 ± 0.3966
400
350
300
250
200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

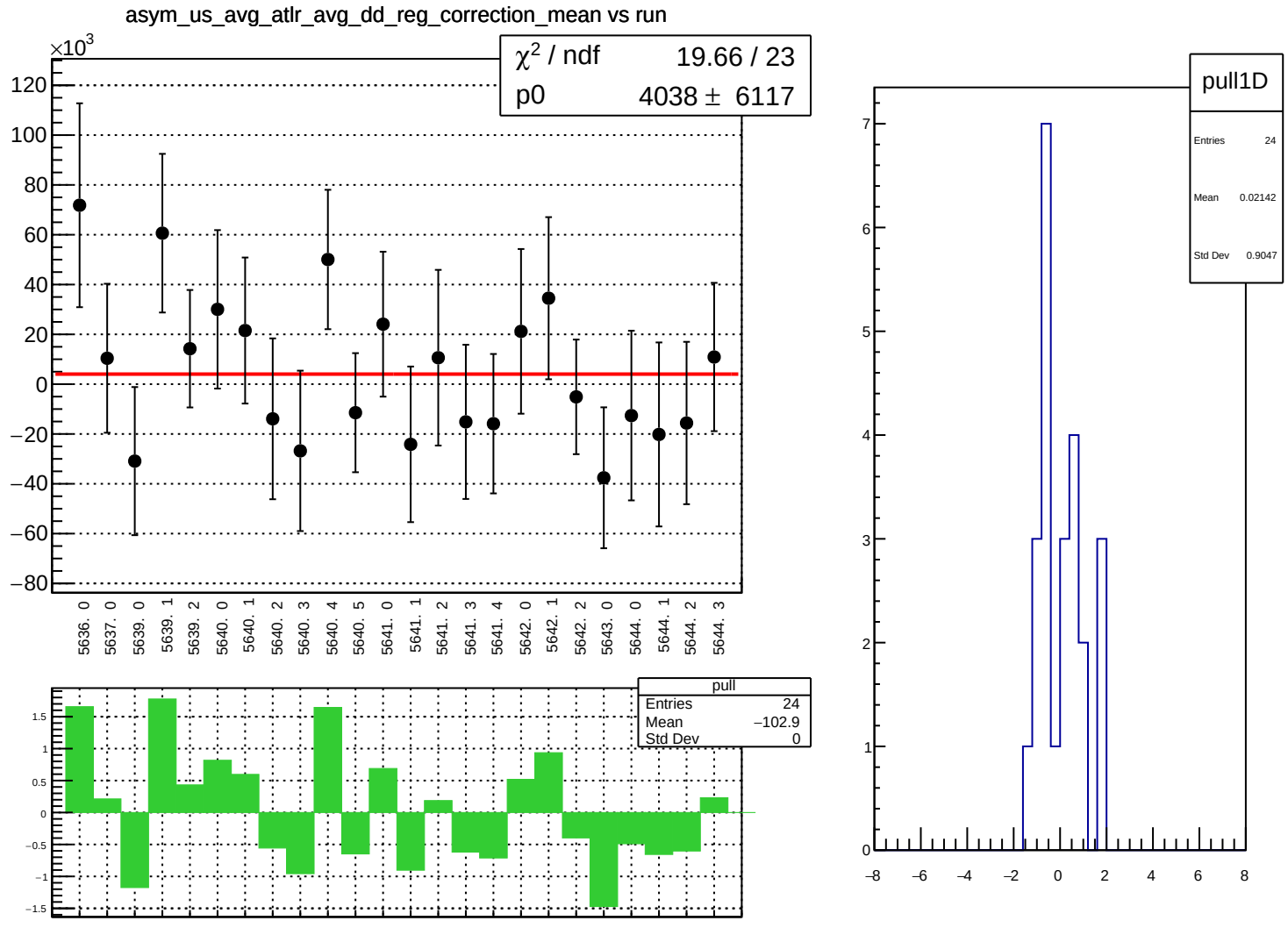

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 32.01 / 23
p0 1.048e−12 ± 6.398e−13
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −248.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean 0.01088
Std Dev 1.155
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

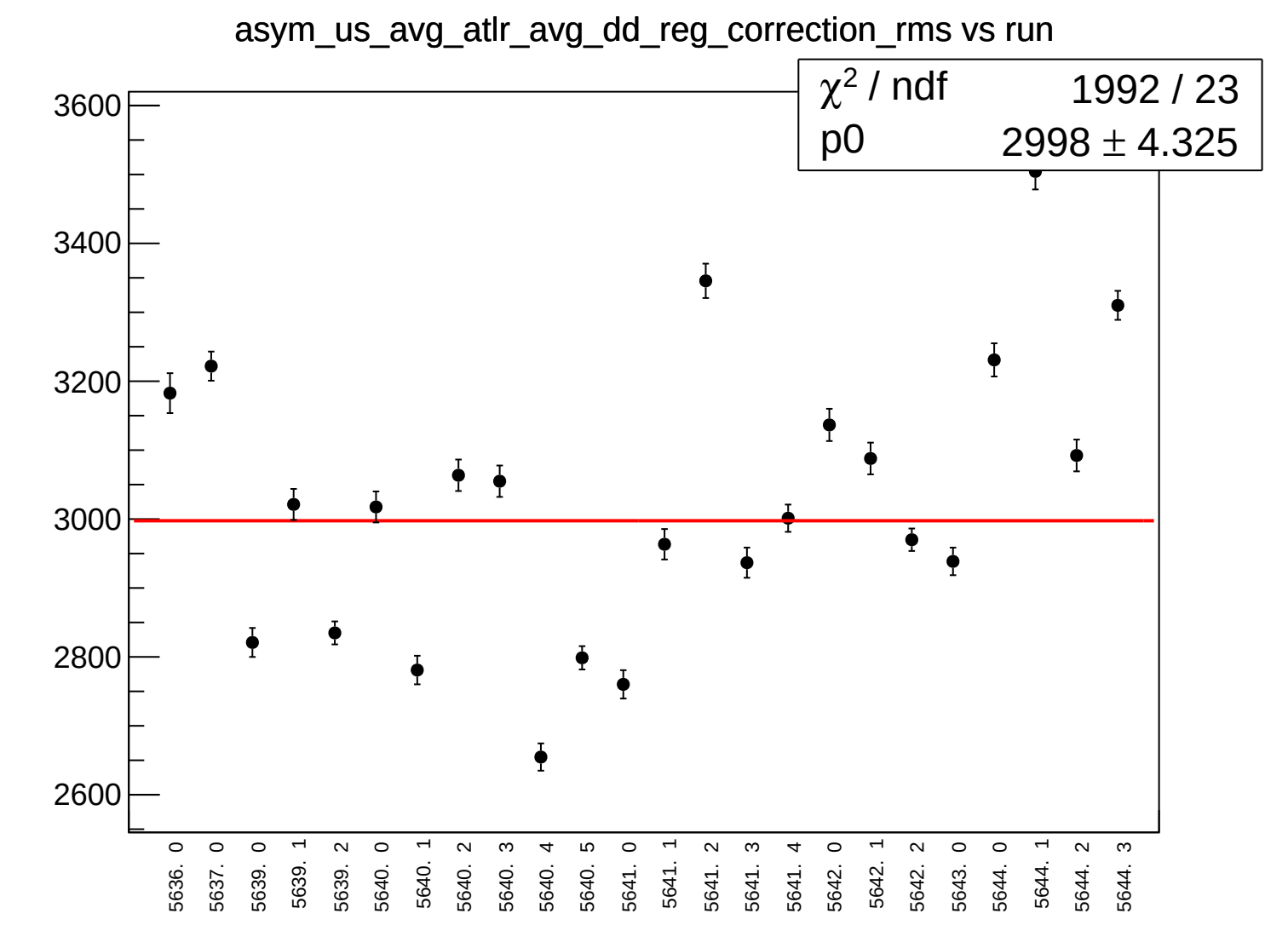

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.38e+05 / 23
p0 2.655e−10 ± 4.524e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

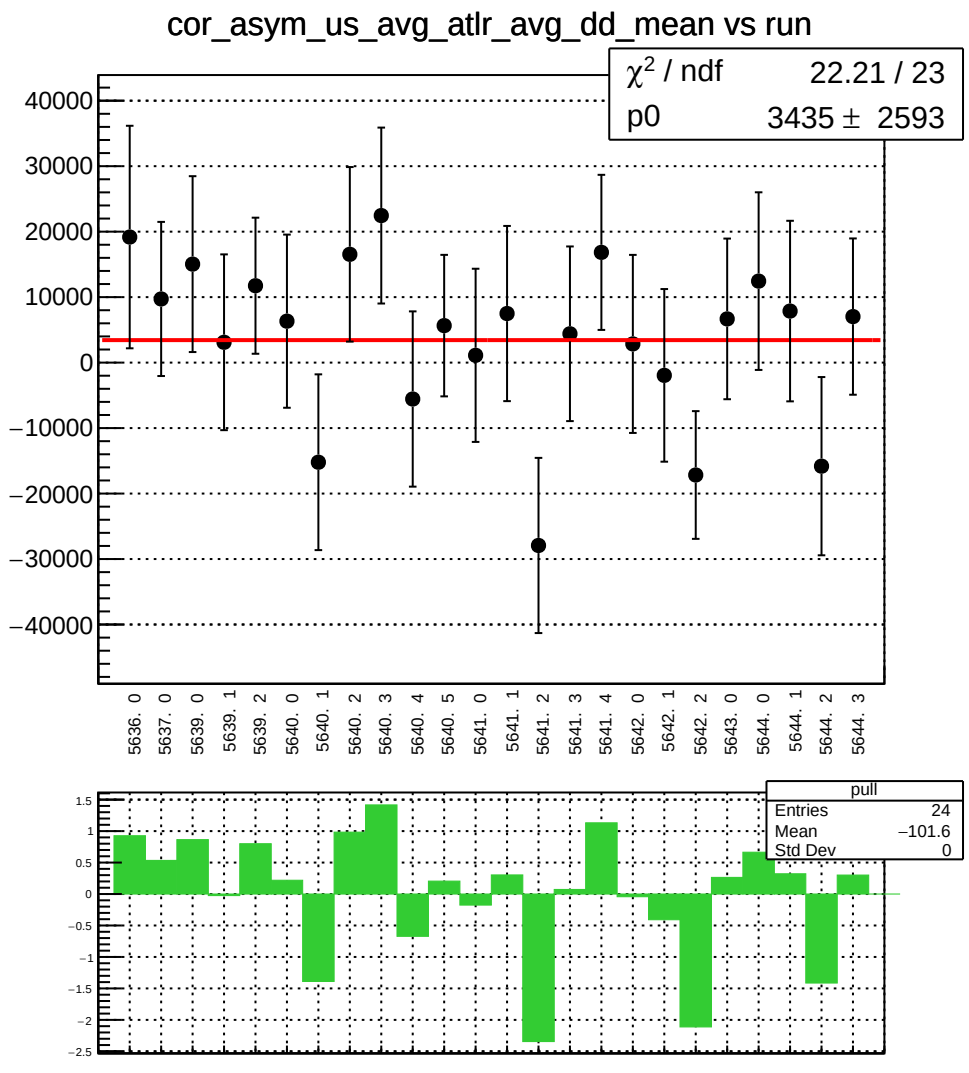

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 22.21 / 23
p0 3435 ± 2593
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −101.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

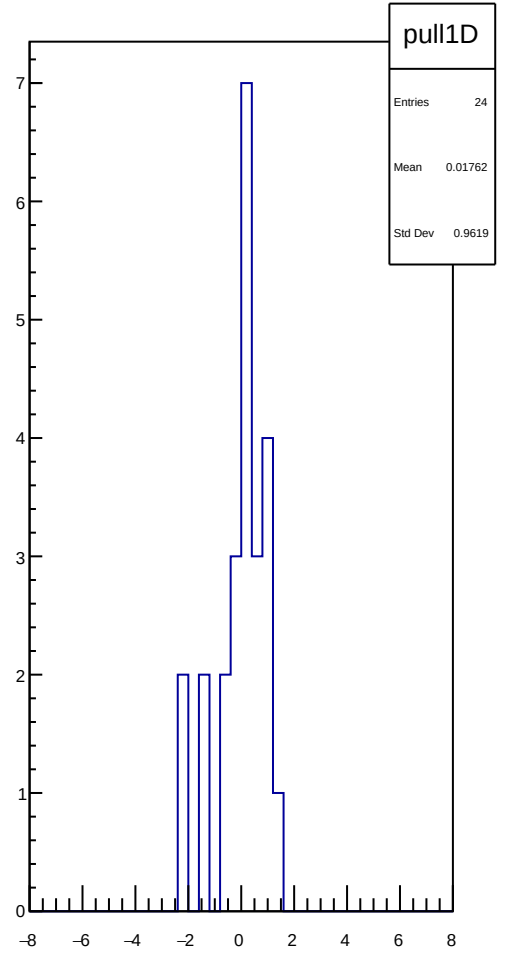

pull1D
Entries 24
Mean 0.01762
Std Dev 0.9619
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

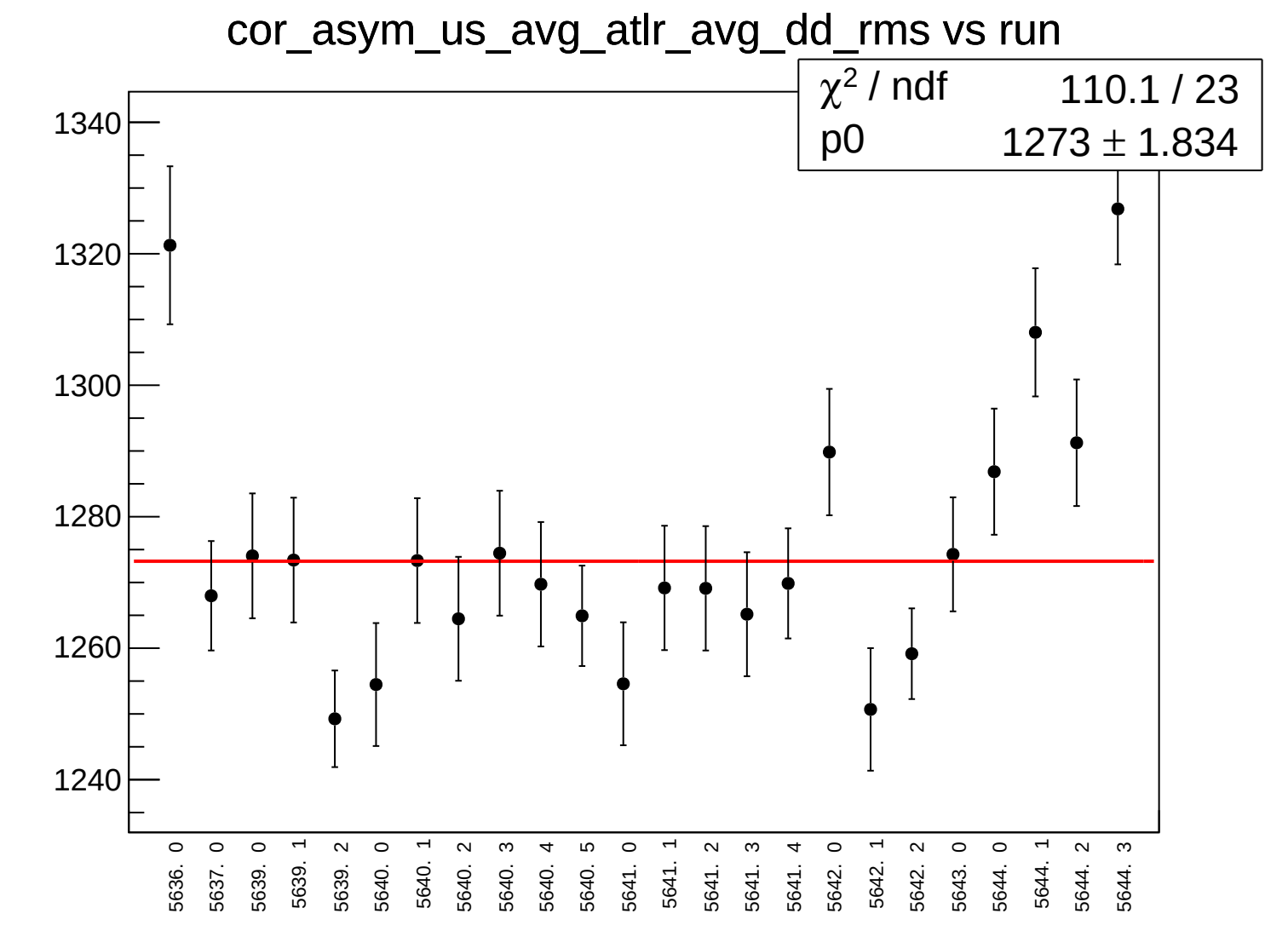

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 110.1 / 23
p0 1273 ± 1.834
1340
1320
1300
1280
1260
1240
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

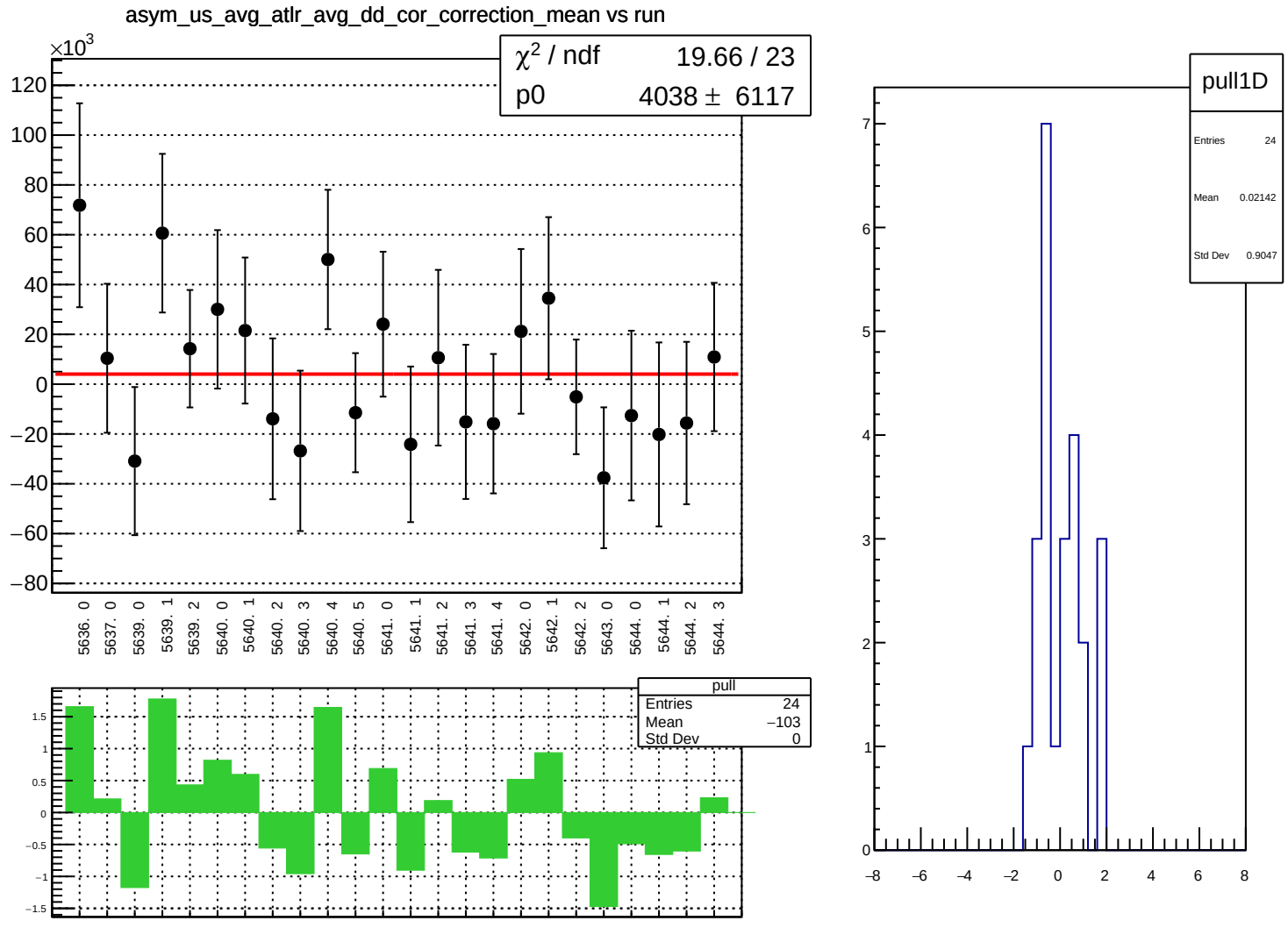

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 19.66 / 23
p0 4038 ± 6117
120
100
80
60
40
20
0
−20
−40
−60
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −102.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.02142
Std Dev 0.9047
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

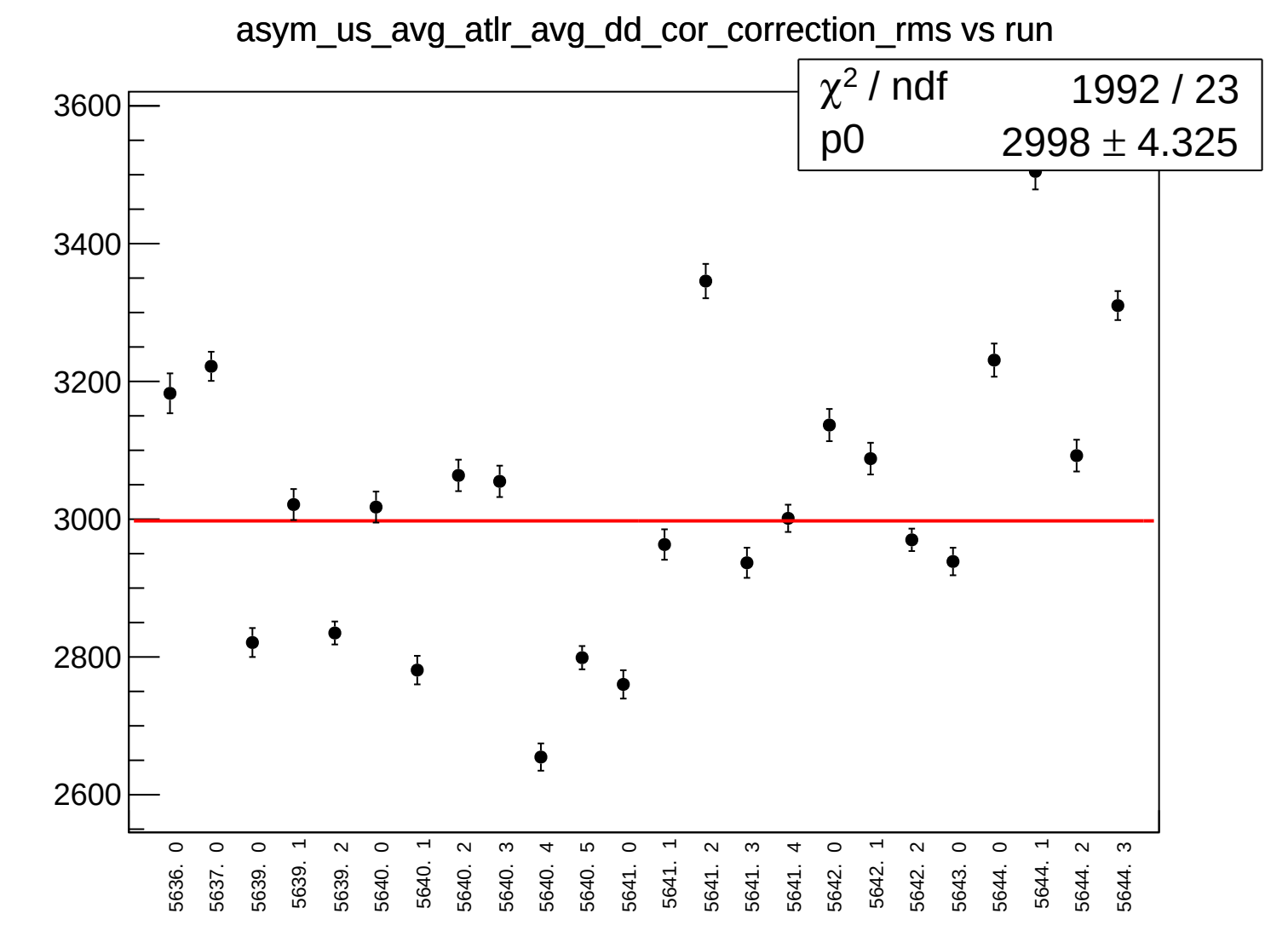

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 1992 / 23
p0 2998 ± 4.325
3600
3400
3200
3000
2800
2600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

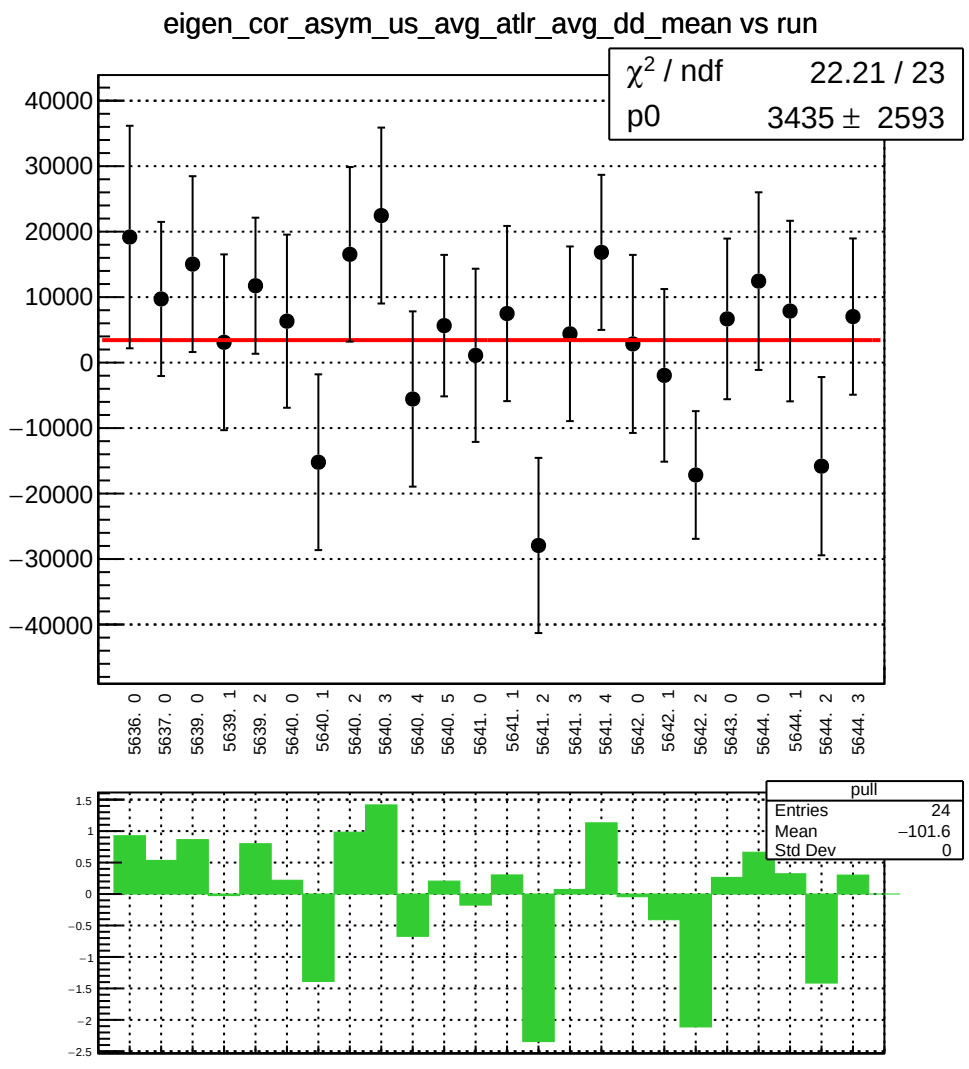

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 22.21 / 23
p0 3435 ± 2593
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −101.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

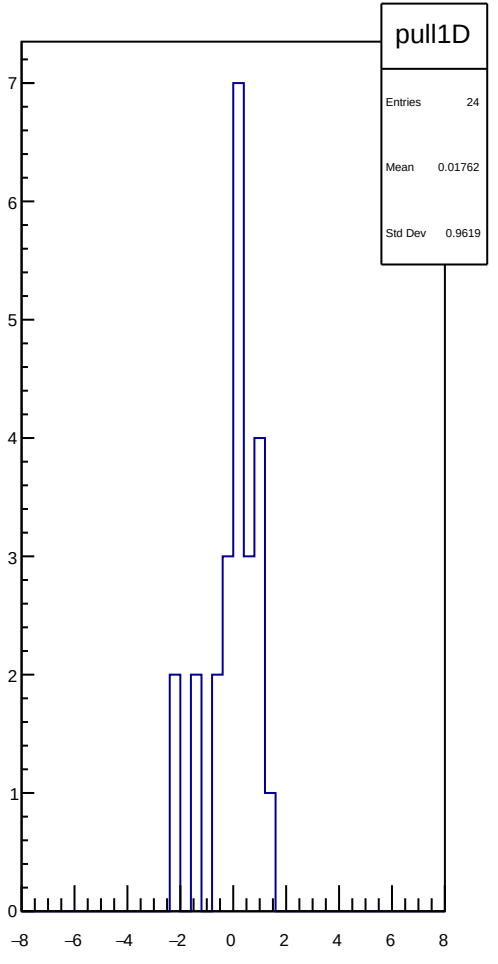

pull1D
Entries 24
Mean 0.01762
Std Dev 0.9619
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

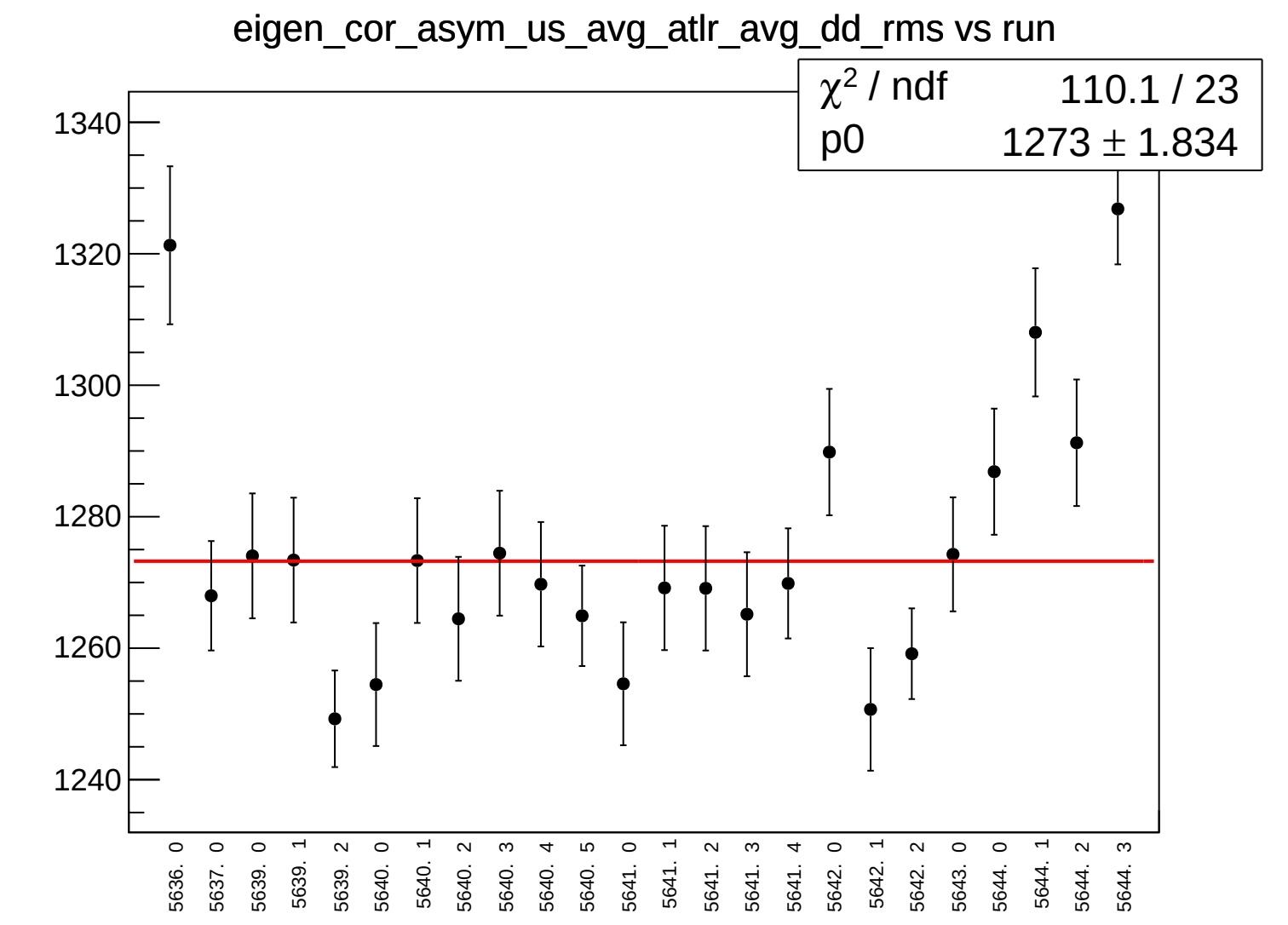

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 110.1 / 23
p0 1273 ± 1.834
1340
1320
1300
1280
1260
1240
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

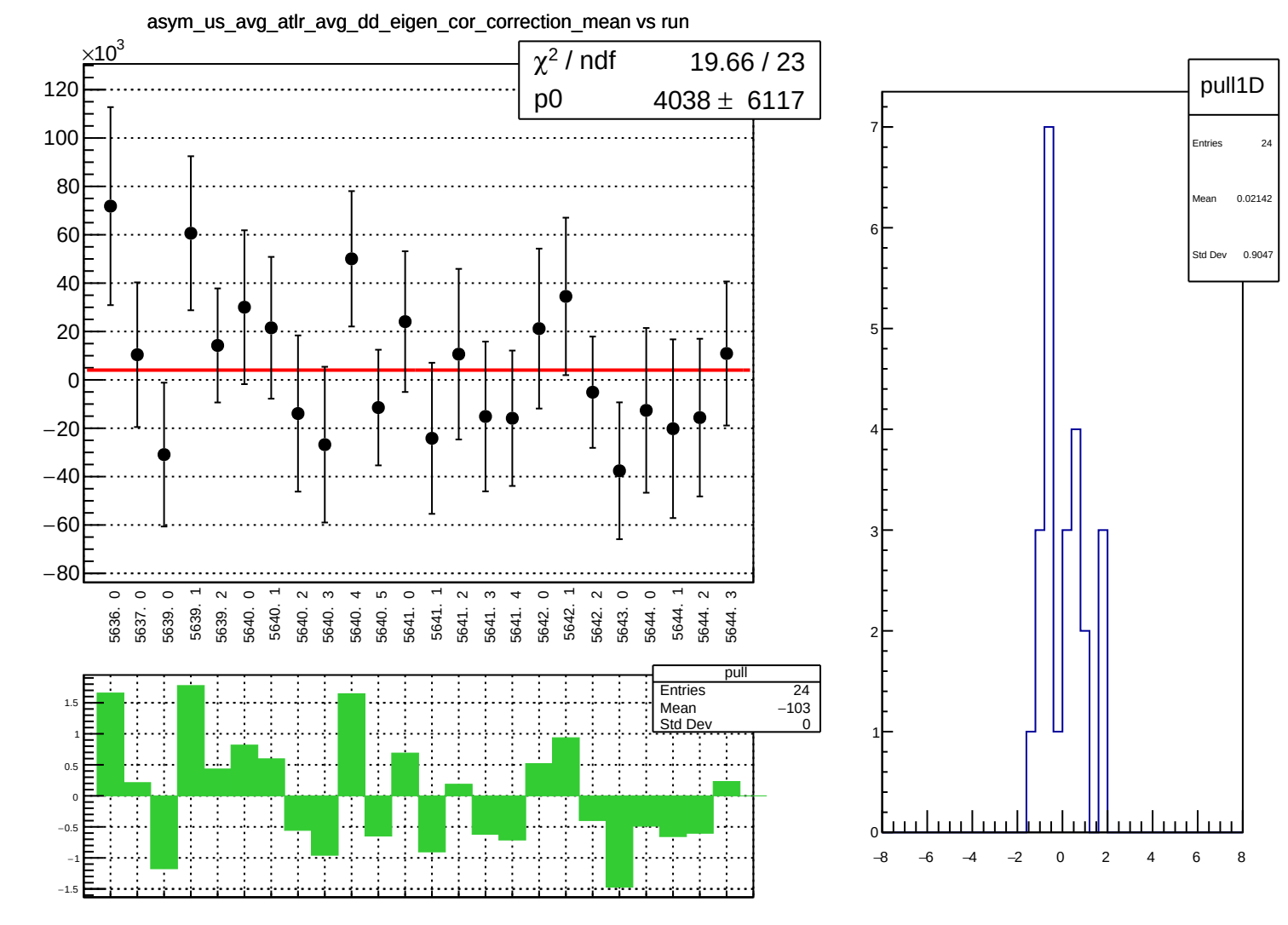

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 19.66 / 23
p0 4038 ± 6117
120
100
80
60
40
20
0
−20
−40
−60
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −103
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.02142
Std Dev 0.9047
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

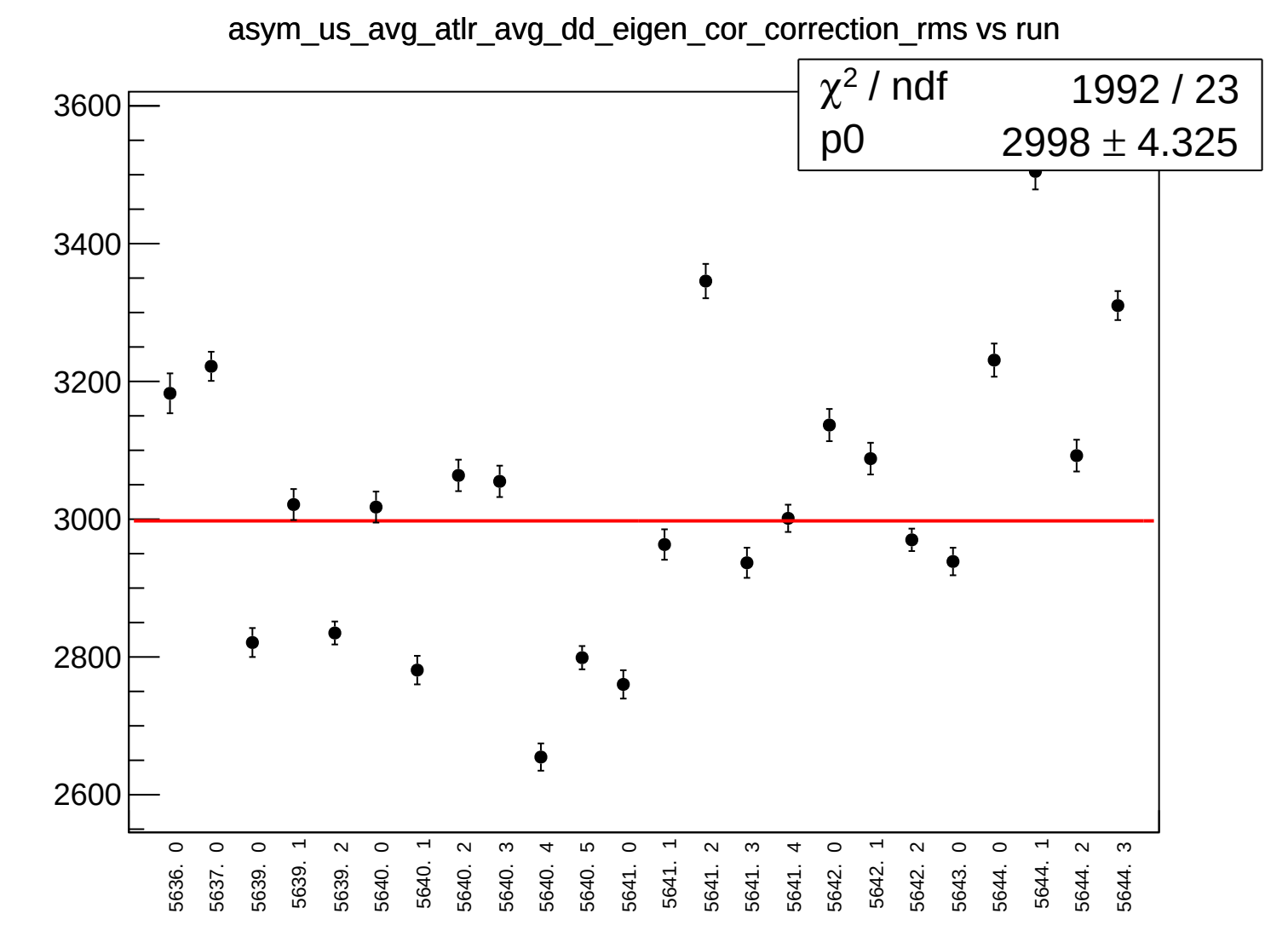

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 1992 / 23
p0 2998 ± 4.325
3600
3400
3200
3000
2800
2600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 22.21 / 23
p0 3435 ± 2593
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −101.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 24
Mean 0.01762
Std Dev 0.9619
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 110.1 / 23
p0 1273 ± 1.834
1340
1320
1300
1280
1260
1240
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 19.66 / 23
p0 4038 ± 6117
120
100
80
60
40
20
0
−20
−40
−60
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −103
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.02142
Std Dev 0.9047
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1992 / 23
p0 2998 ± 4.325
3600
3400
3200
3000
2800
2600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5642. 0
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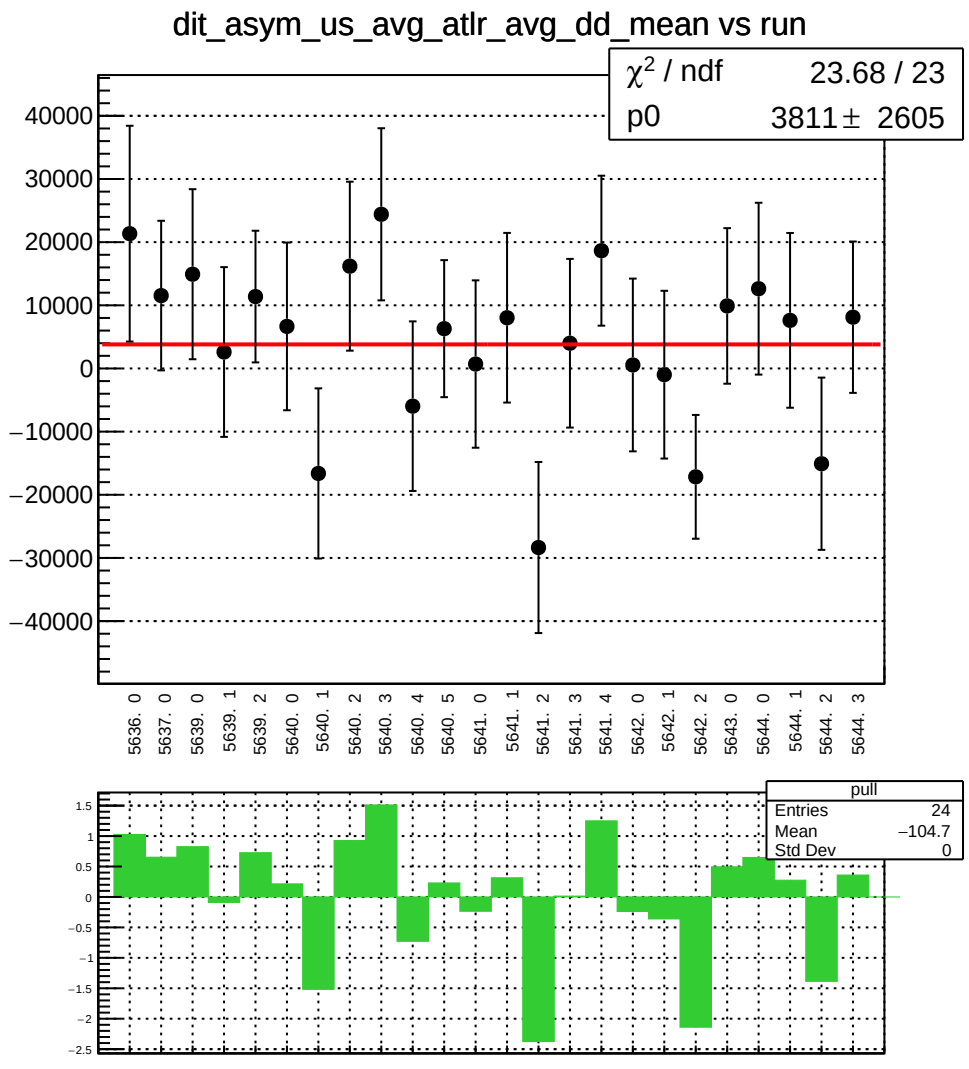
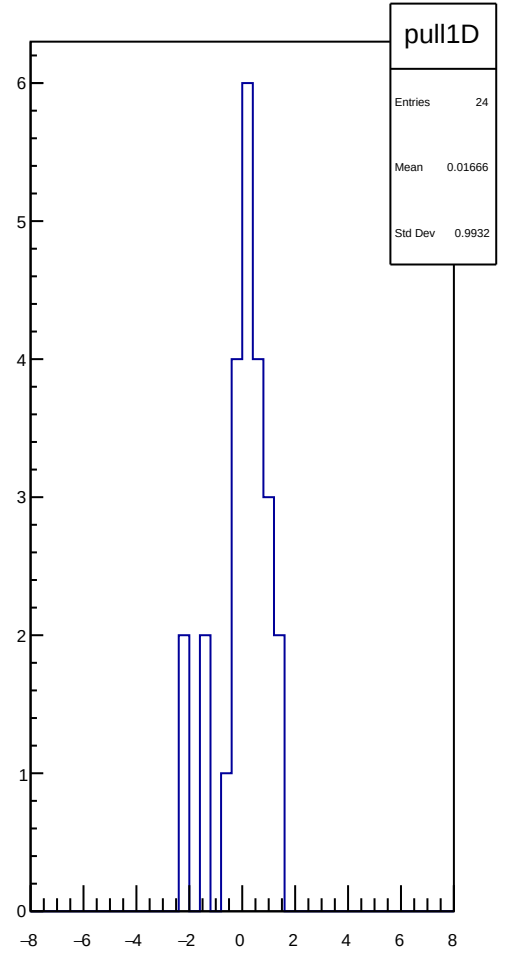
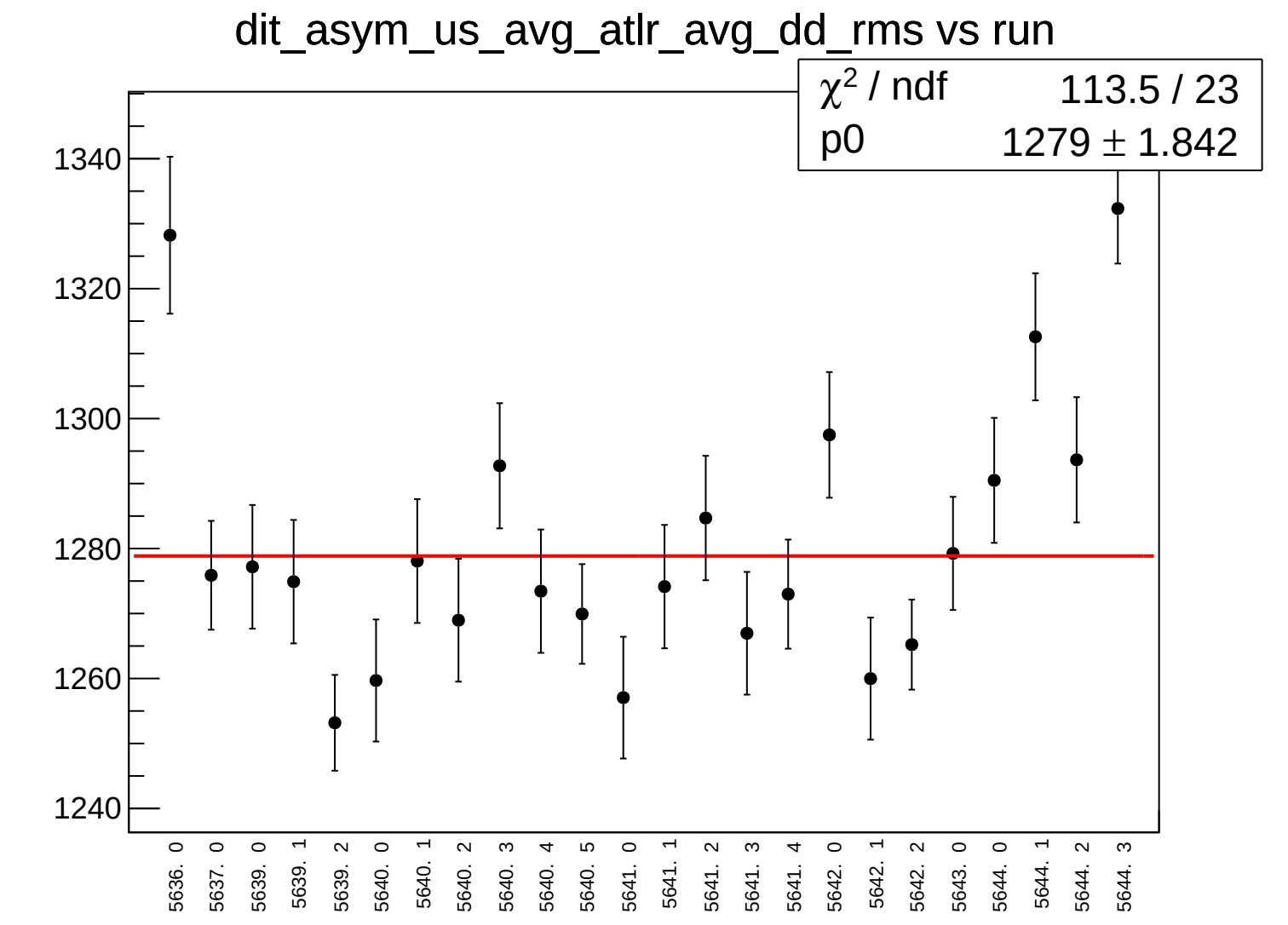
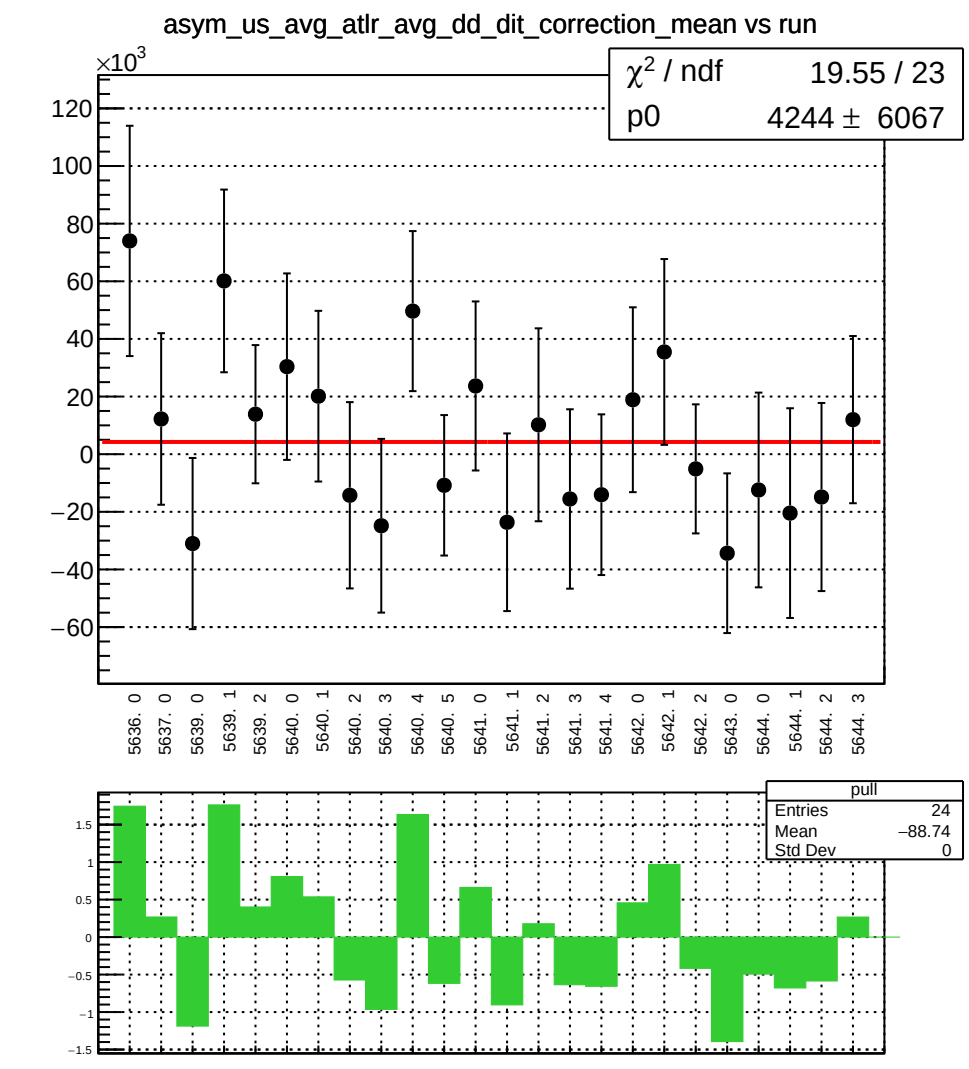
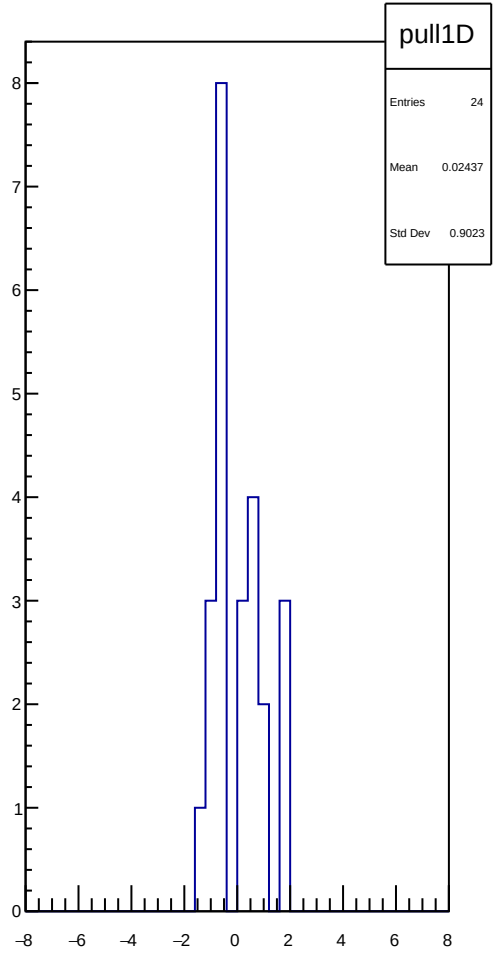
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

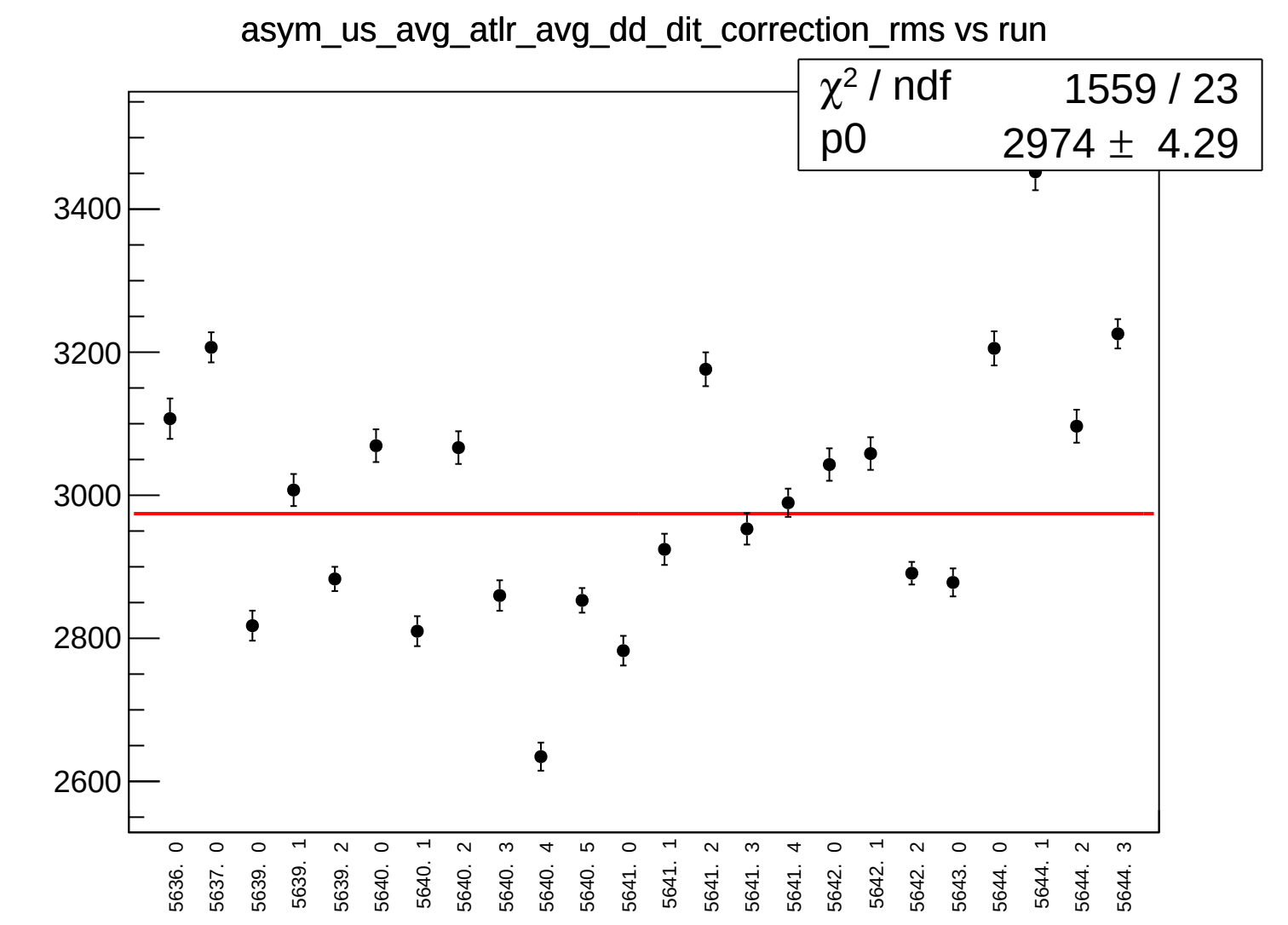

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 23.68 / 23
p0 3811 ± 2605
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −104.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

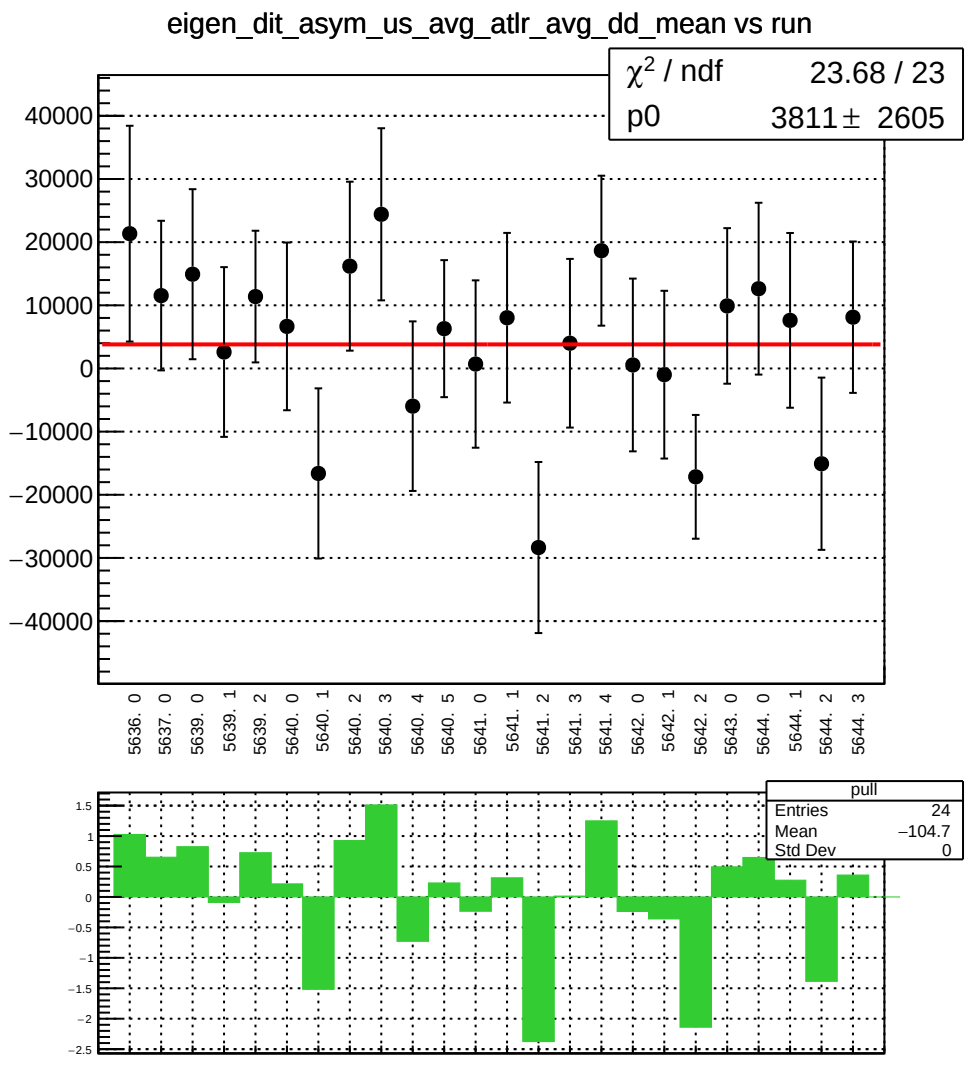

pull1D
Entries 24
Mean 0.01666
Std Dev 0.9932
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

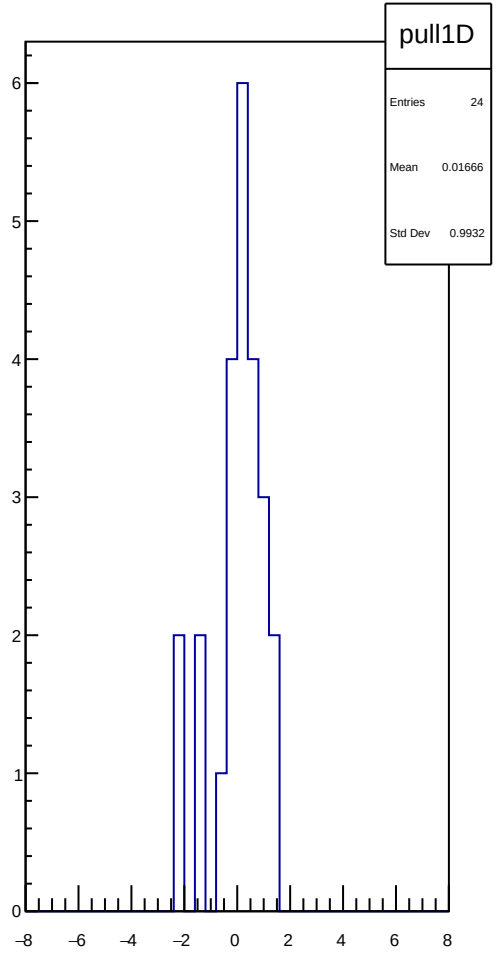

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 113.5 / 23
p0 1279 ± 1.842
1340
1320
1300
1280
1260
1240
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

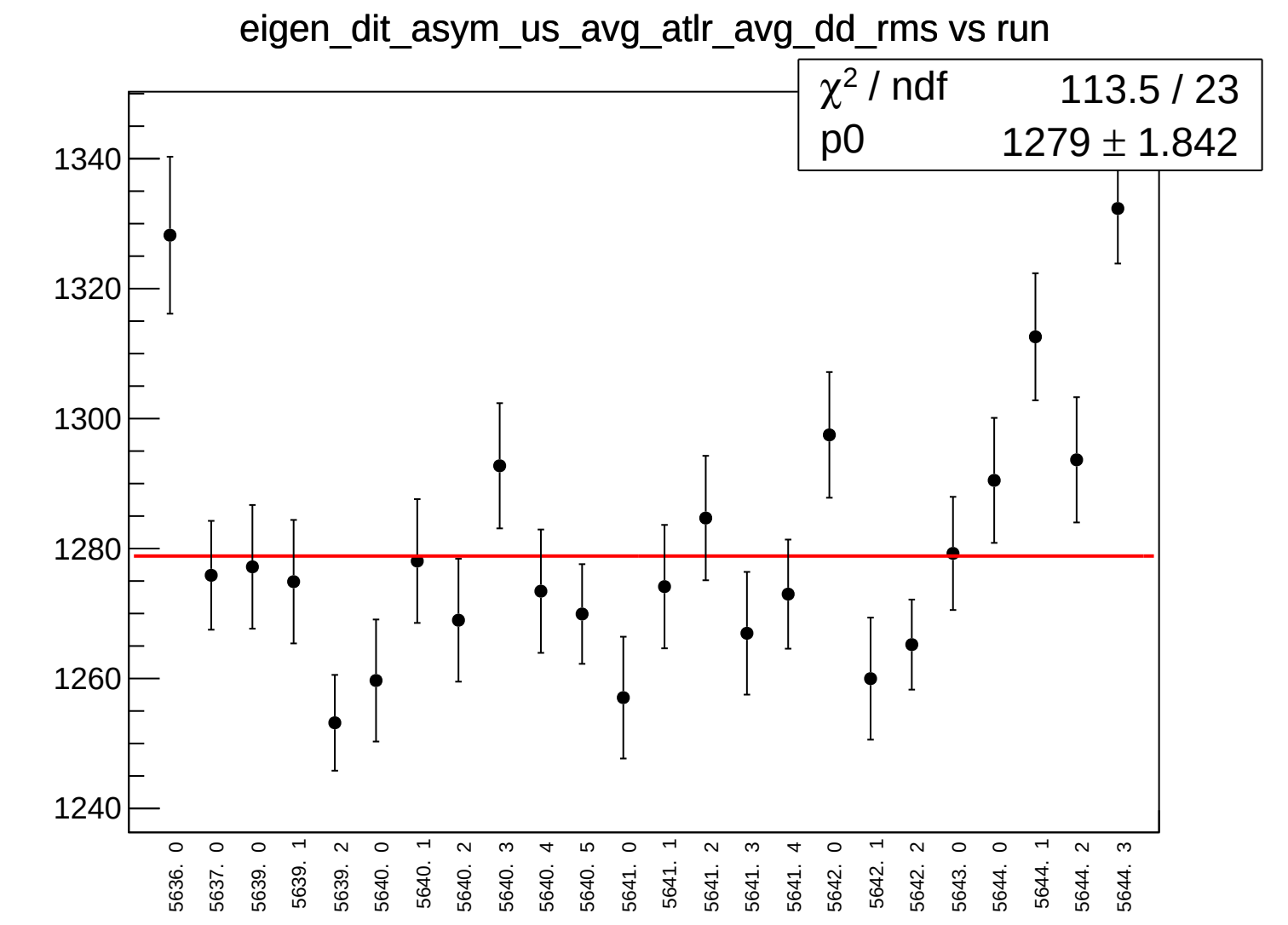

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 19.55 / 23
p0 4244 ± 6067
120
100
80
60
40
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −88.74
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean 0.02437
Std Dev 0.9023
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 1559 / 23
p0 2974 ± 4.29
3400
3200
3000
2800
2600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 23.68 / 23
p0 3811 ± 2605
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −104.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 24
Mean 0.01666
Std Dev 0.9932
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 113.5 / 23
p0 1279 ± 1.842
1340
1320
1300
1280
1260
1240
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5641. 4
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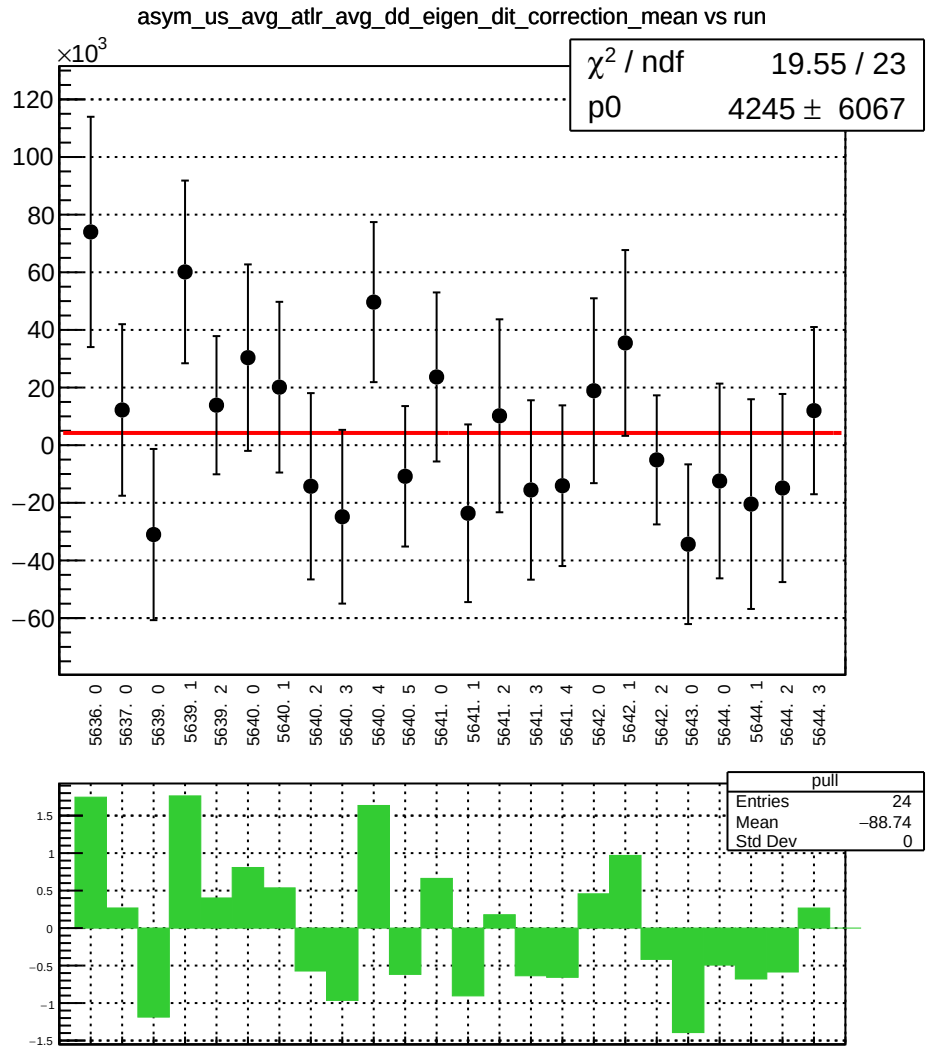
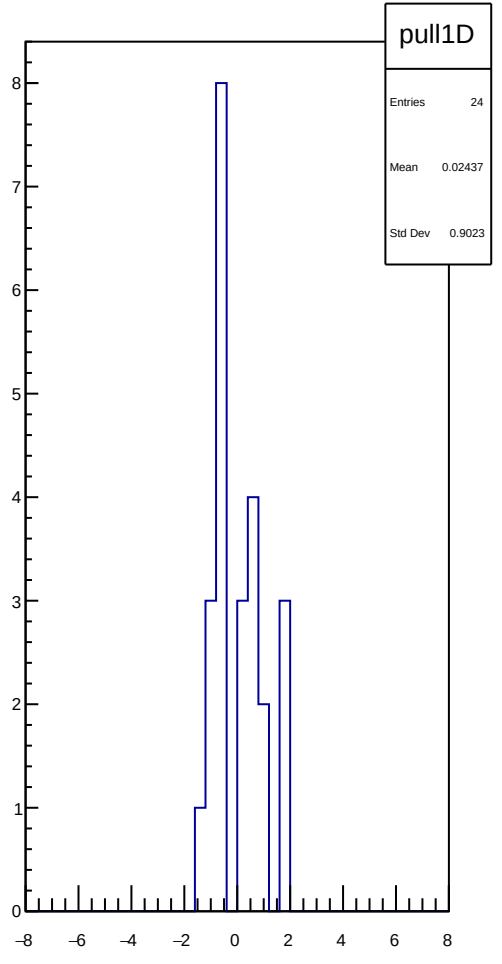
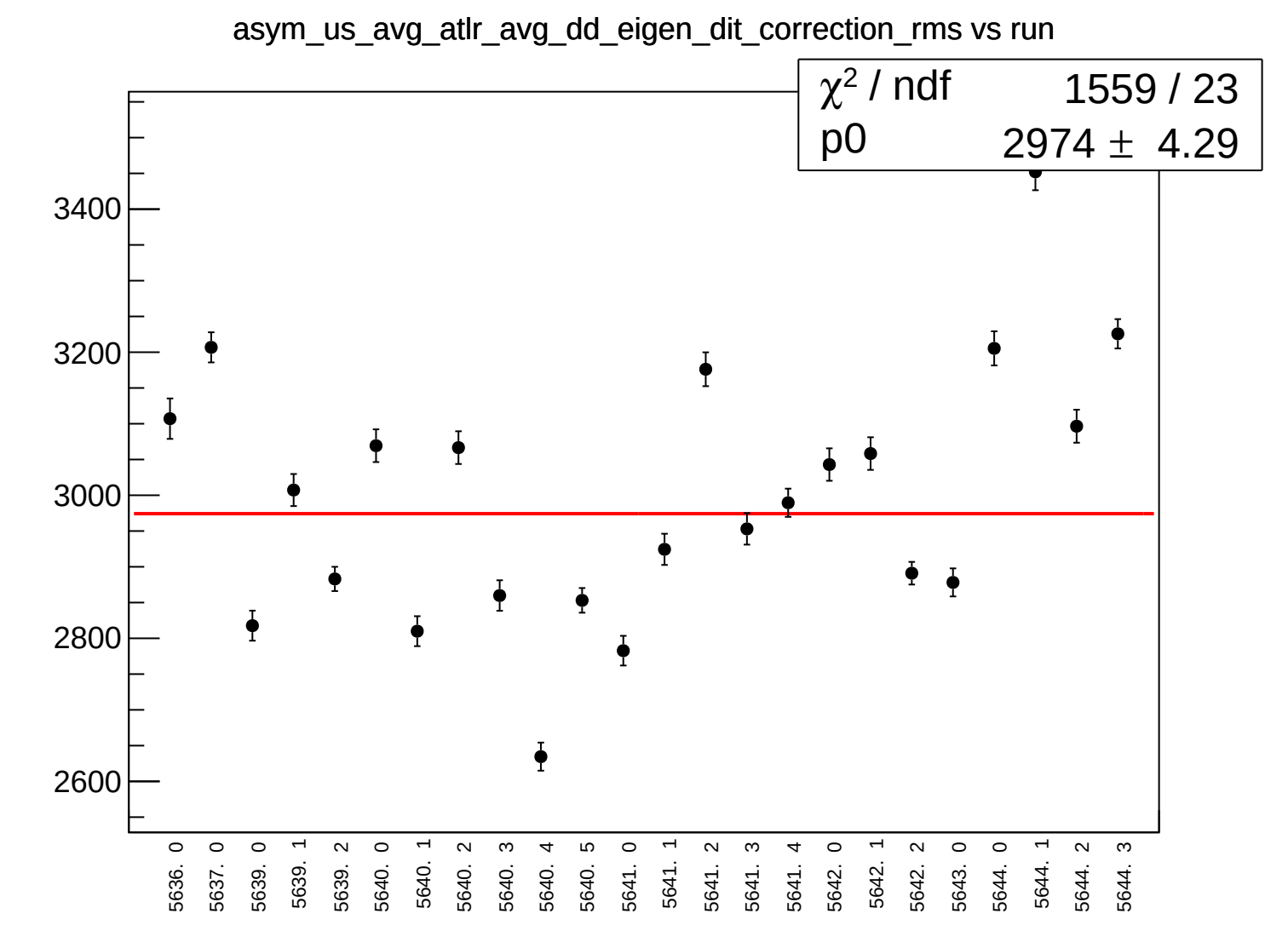
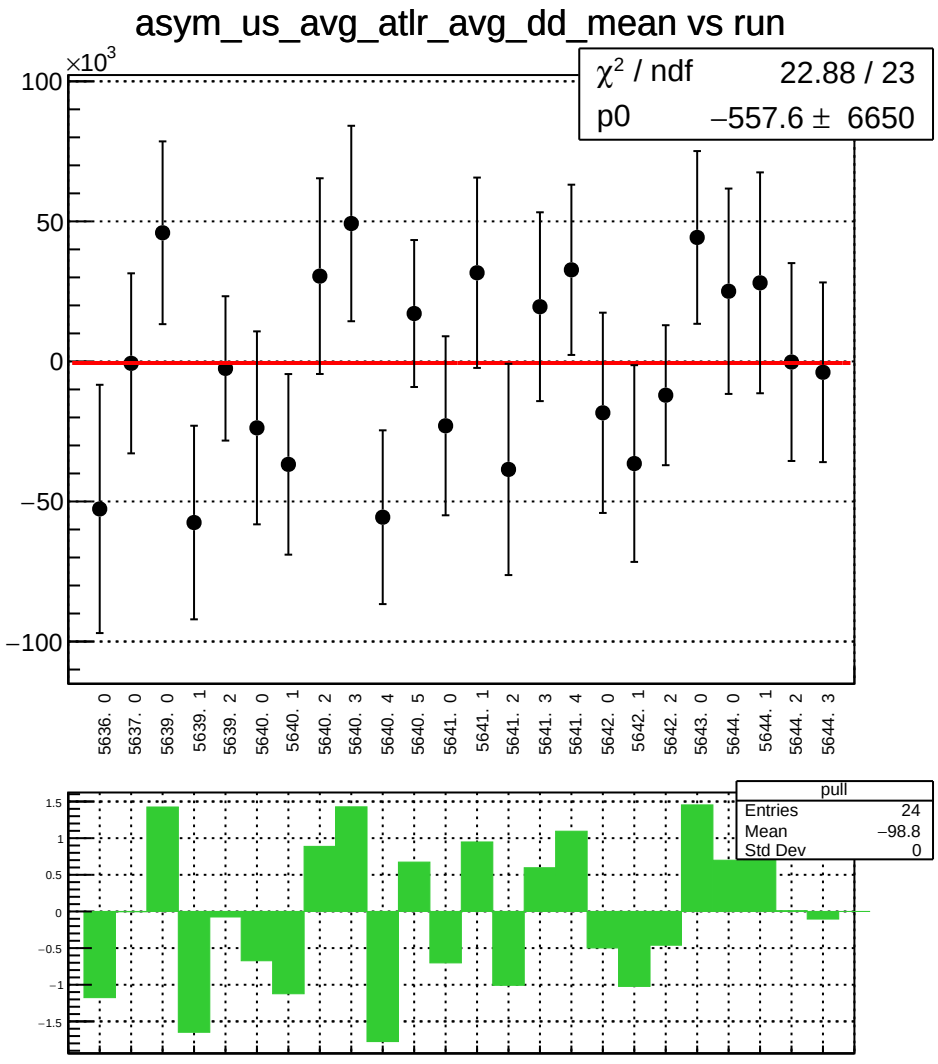
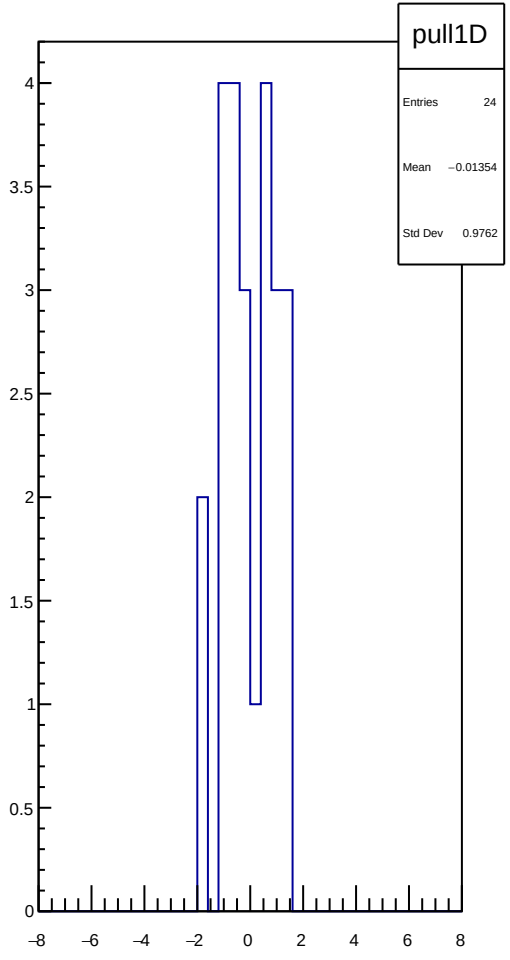
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

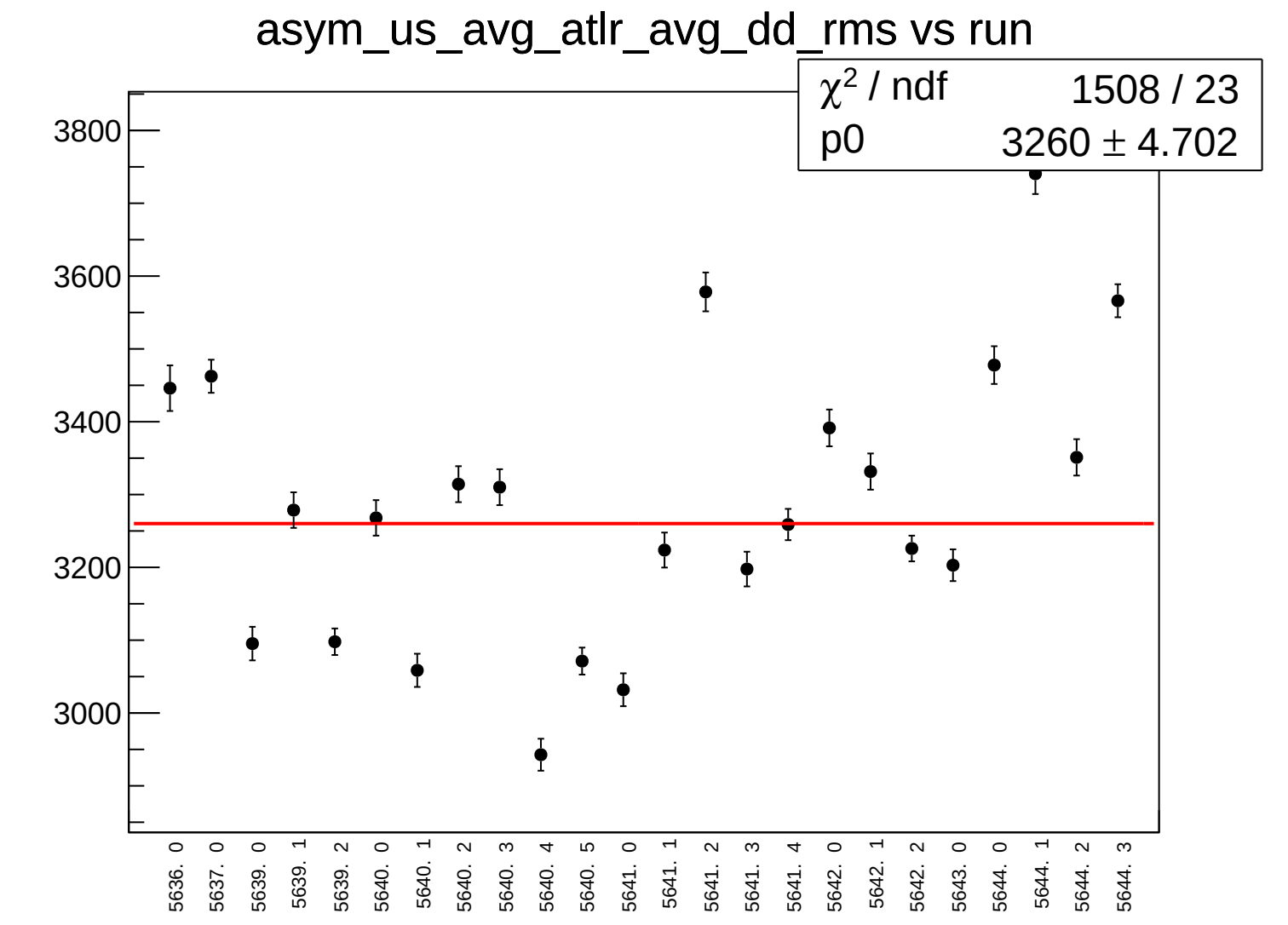

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 19.55 / 23
p0 4245 ± 6067
120
100
80
60
40
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −88.74
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

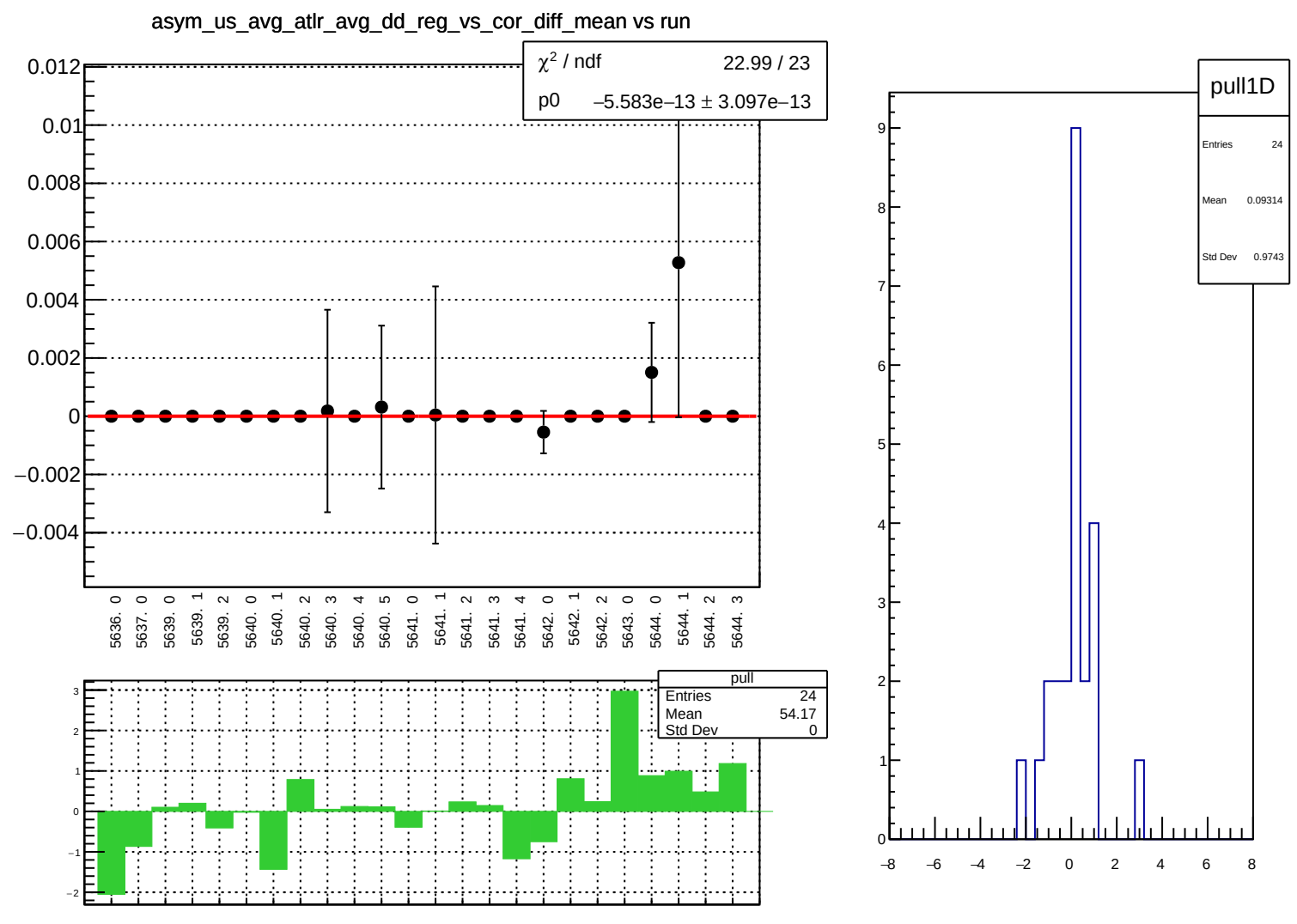

pull1D
Entries 24
Mean 0.02437
Std Dev 0.9023
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

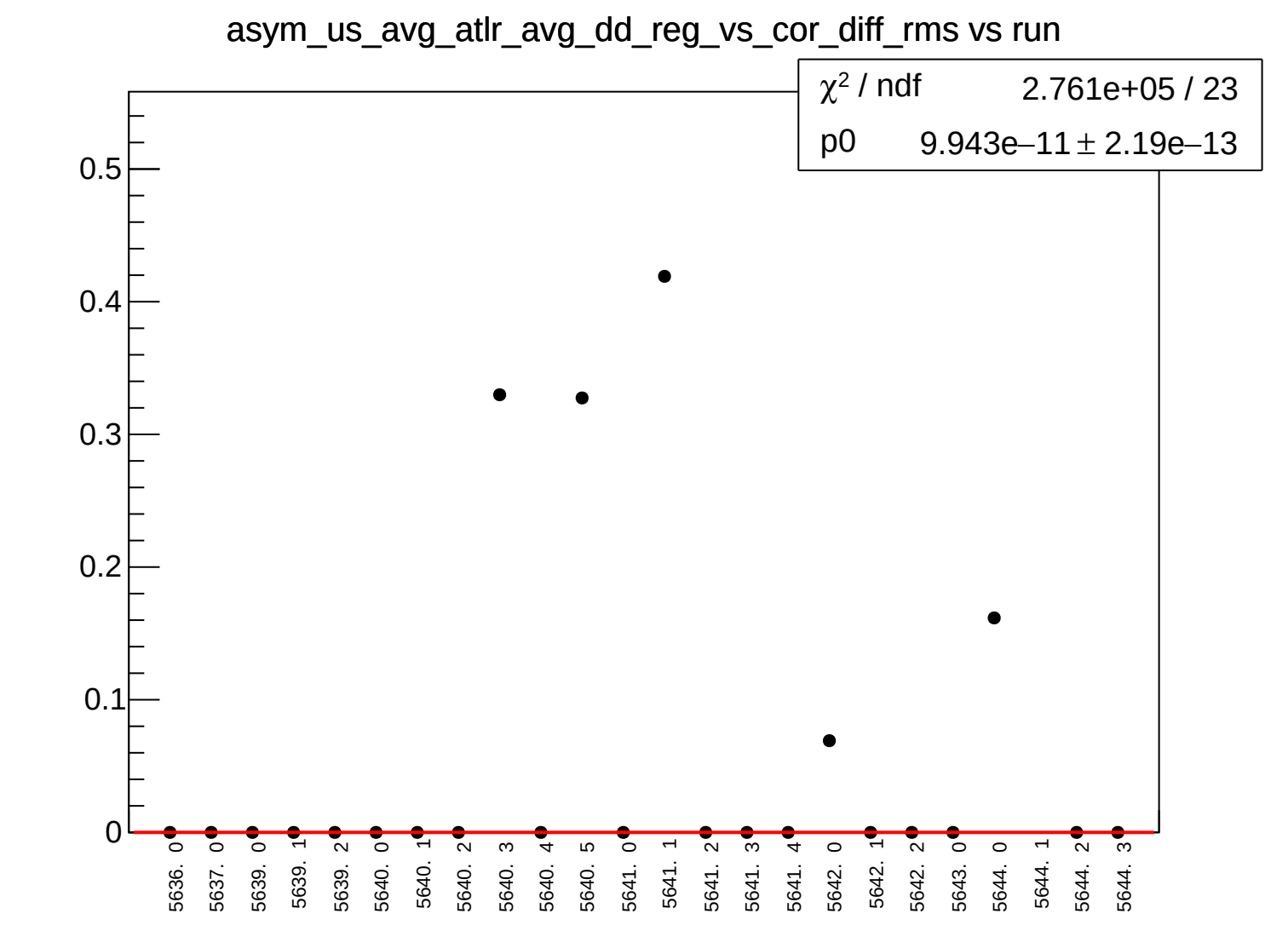

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1559 / 23
p0 2974 ± 4.29
3400
3200
3000
2800
2600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

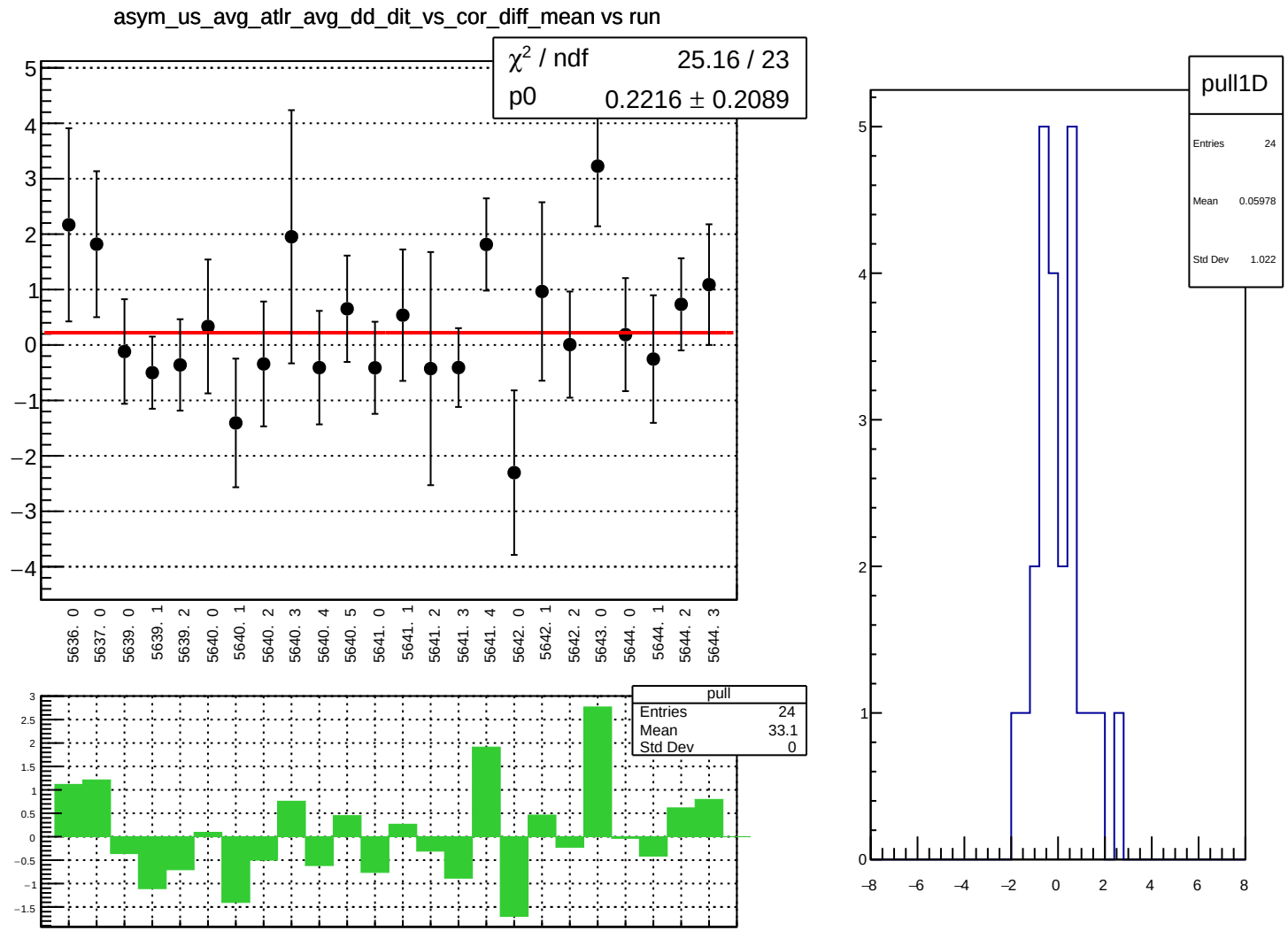

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ² / ndf 22.88 / 23
p0 −557.6 ± 6650
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −98.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

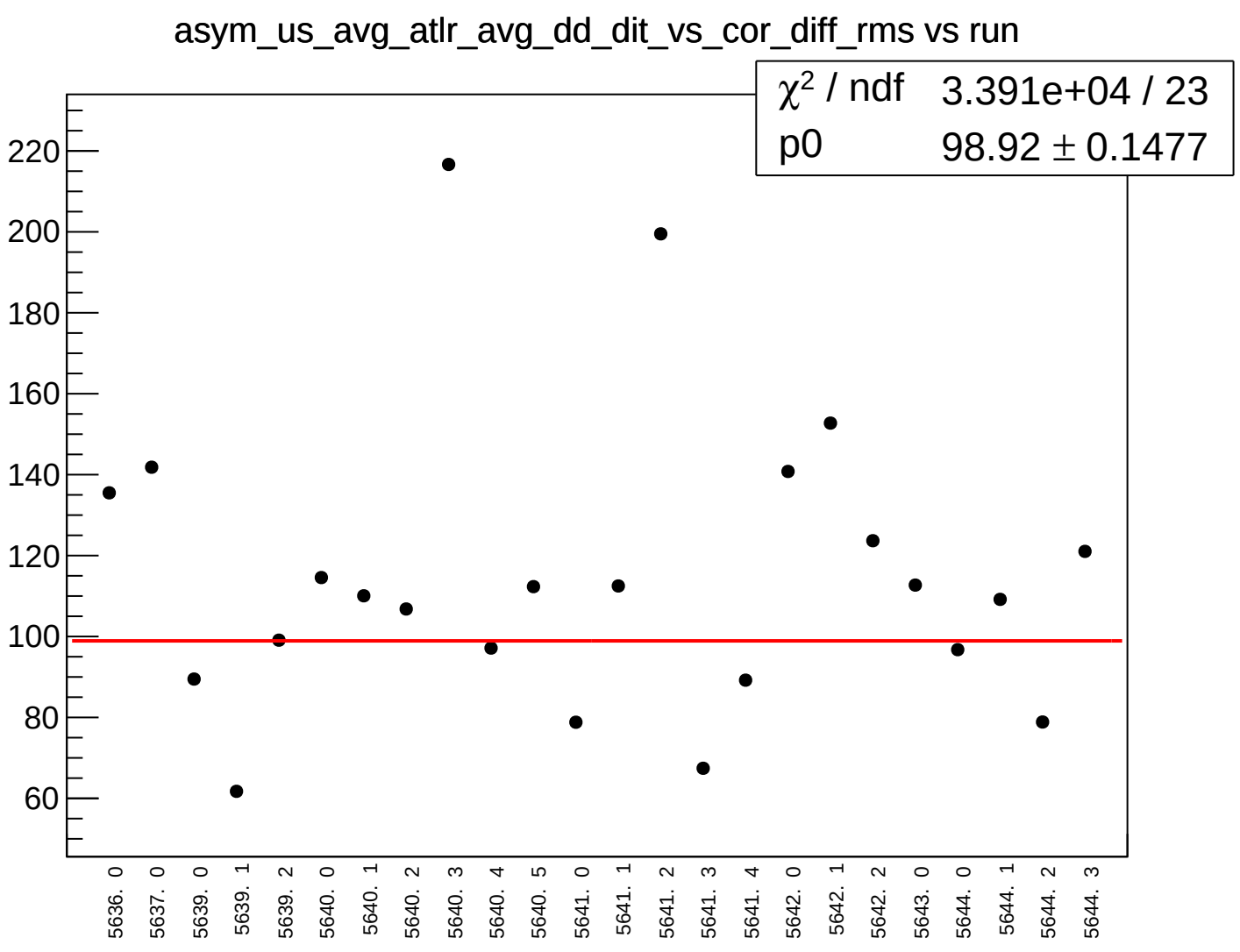

pull1D
Entries 24
Mean −0.01354
Std Dev 0.9762
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

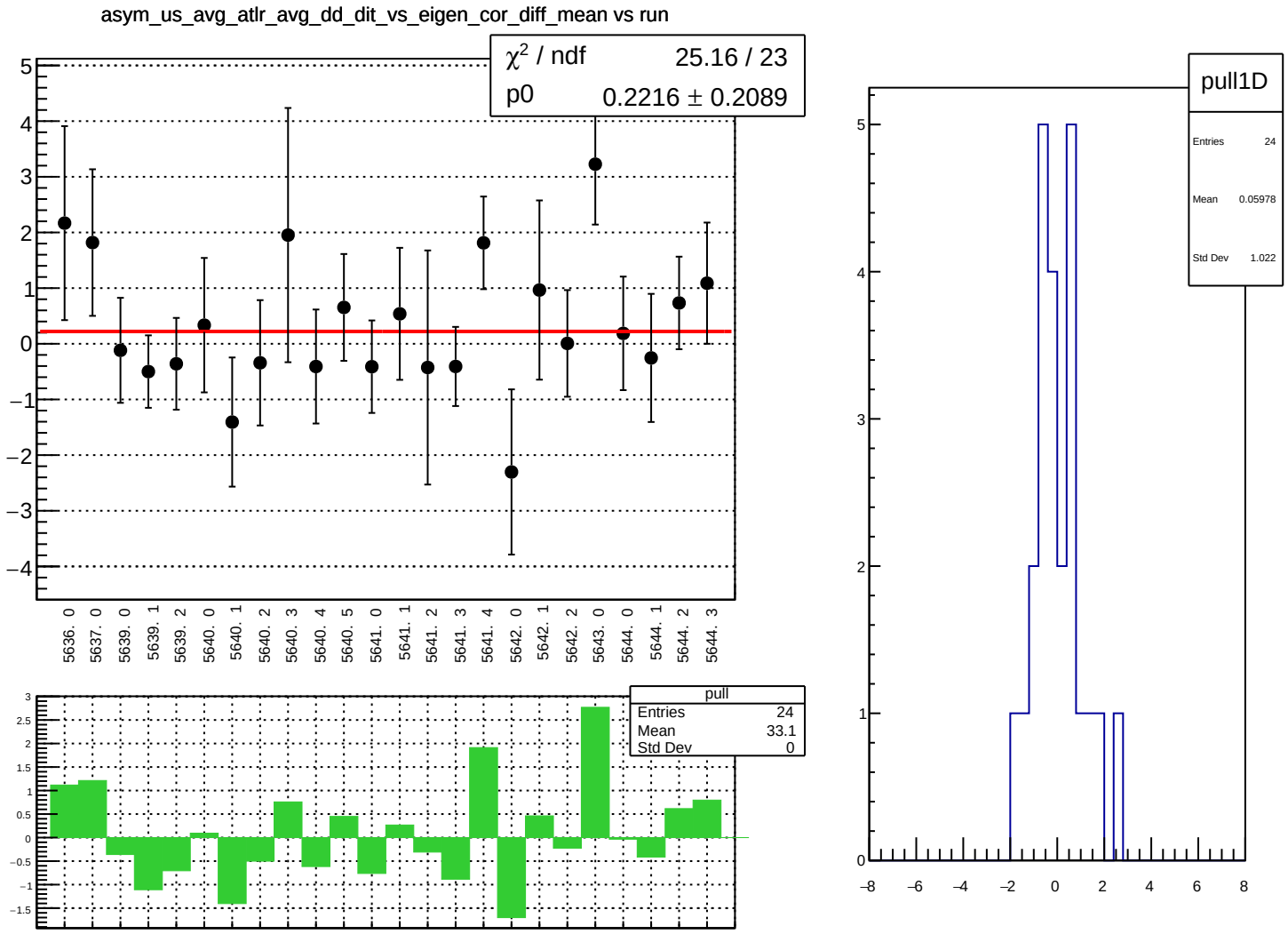

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1508 / 23
p0 3260 ± 4.702
3800
3600
3400
3200
3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

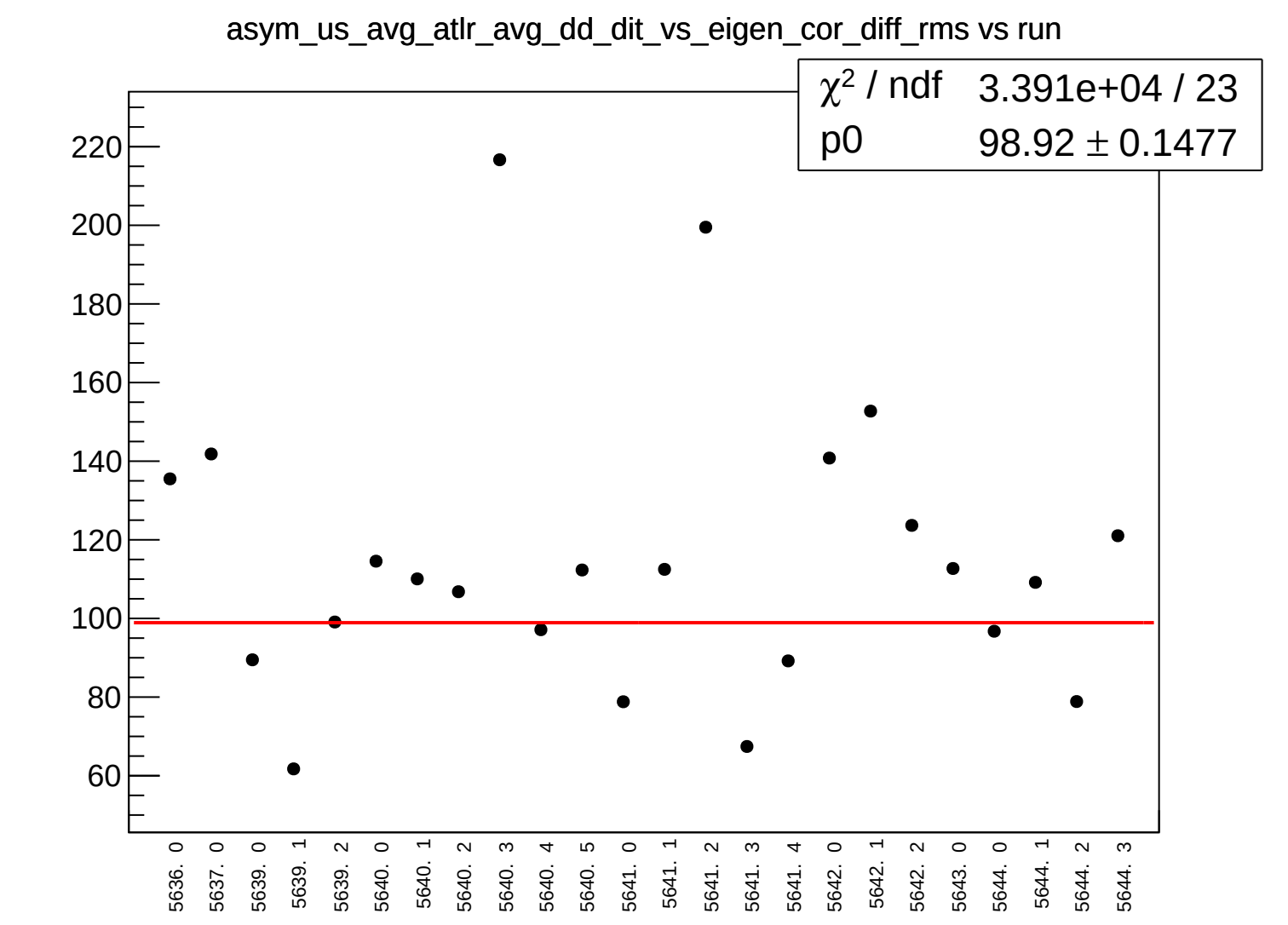

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 22.99 / 23
p0 −5.583e−13 ± 3.097e−13
0.012
0.01
0.008
0.006
0.004
0.002
0
−0.002
−0.004
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 54.17
Std Dev 0
pull1D
Entries 24
Mean 0.09314
Std Dev 0.9743

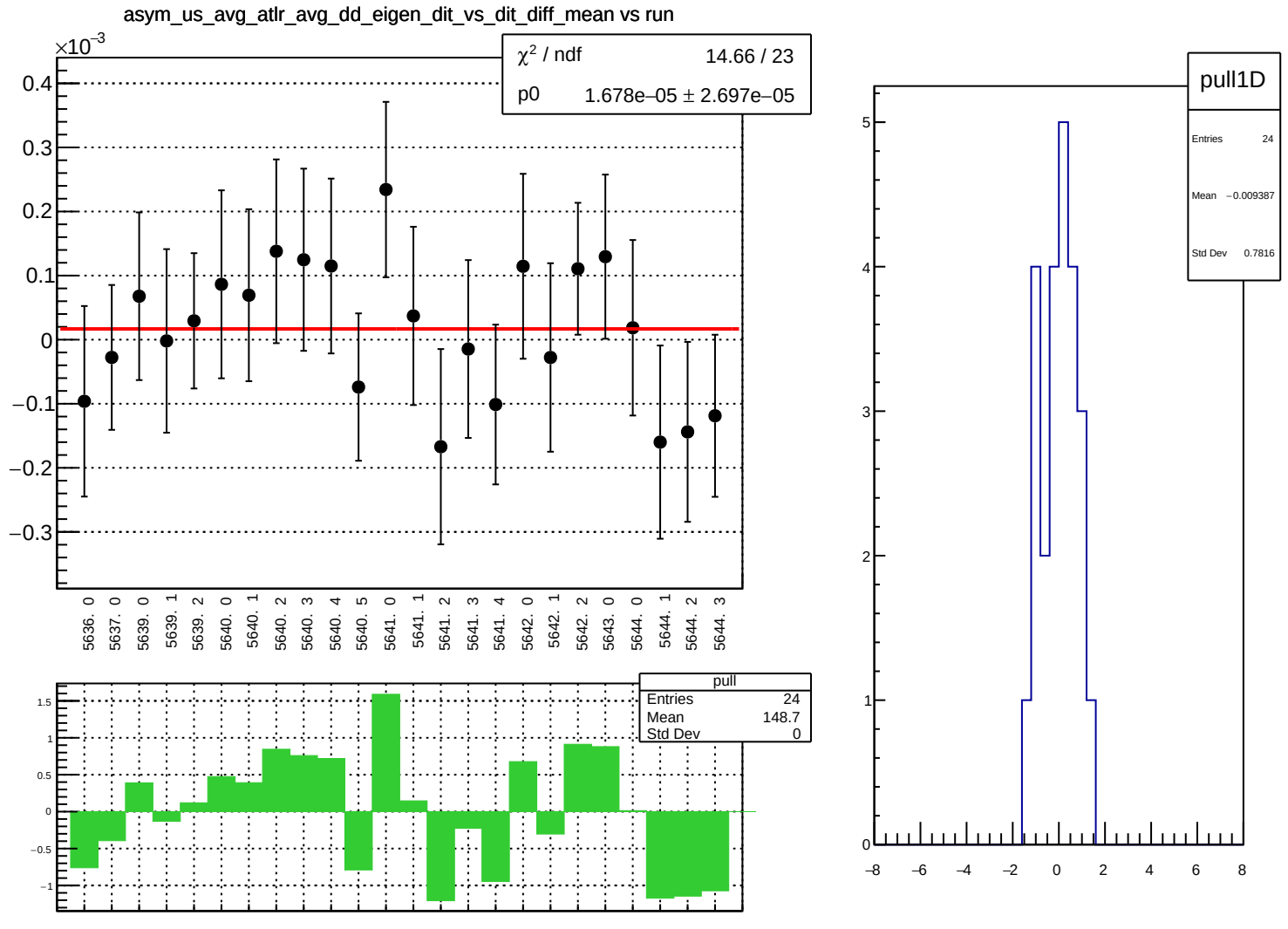

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.761e+05 / 23
p0 9.943e−11 ± 2.19e−13
0.5
0.4
0.3
0.2
0.1
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

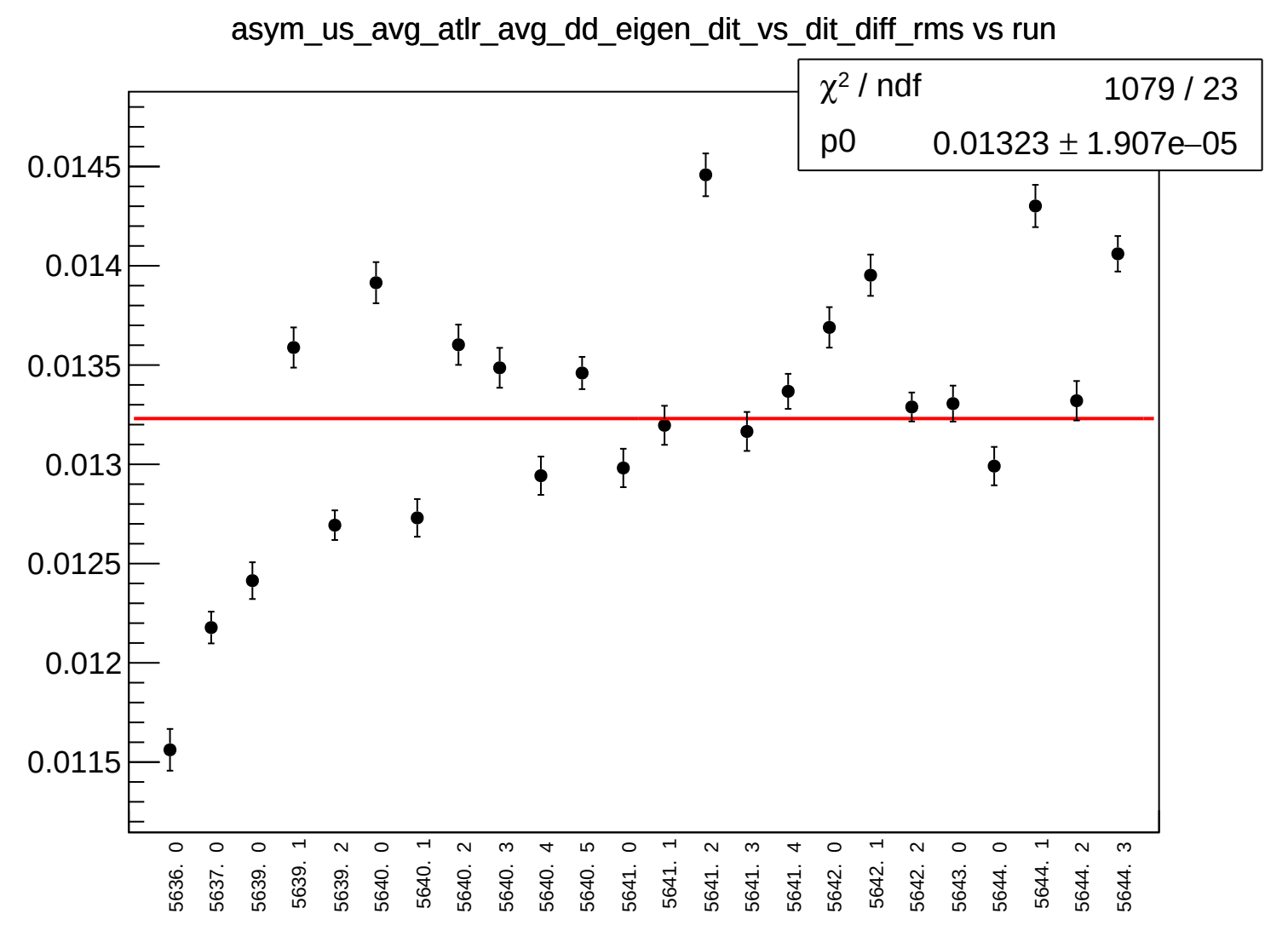

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 25.16 / 23
p0 0.2216 ± 0.2089
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 33.1
Std Dev 0
pull1D
Entries 24
Mean 0.05978
Std Dev 1.022

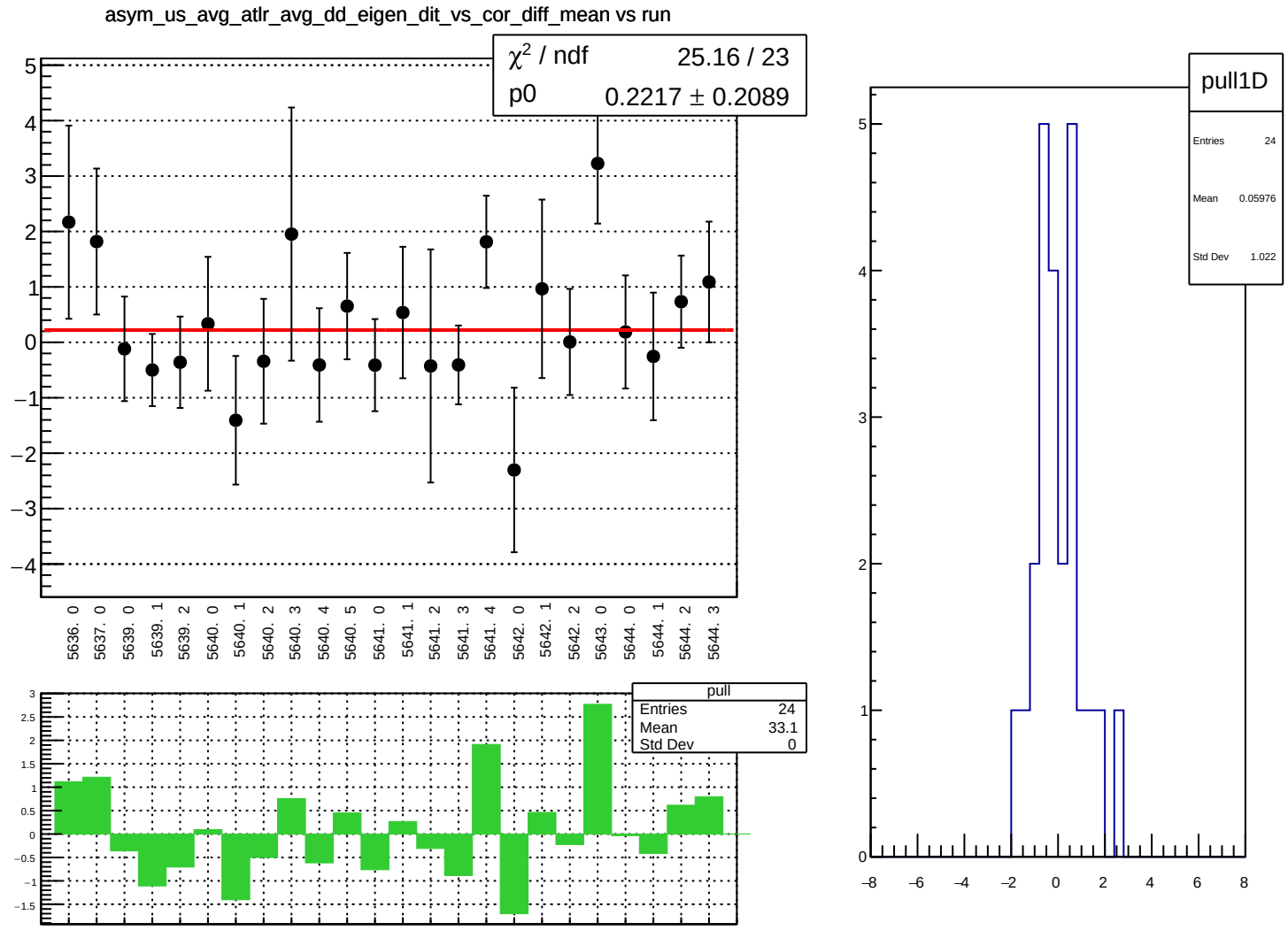

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.391e+04 / 23
p0 98.92 ± 0.1477
220
200
180
160
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

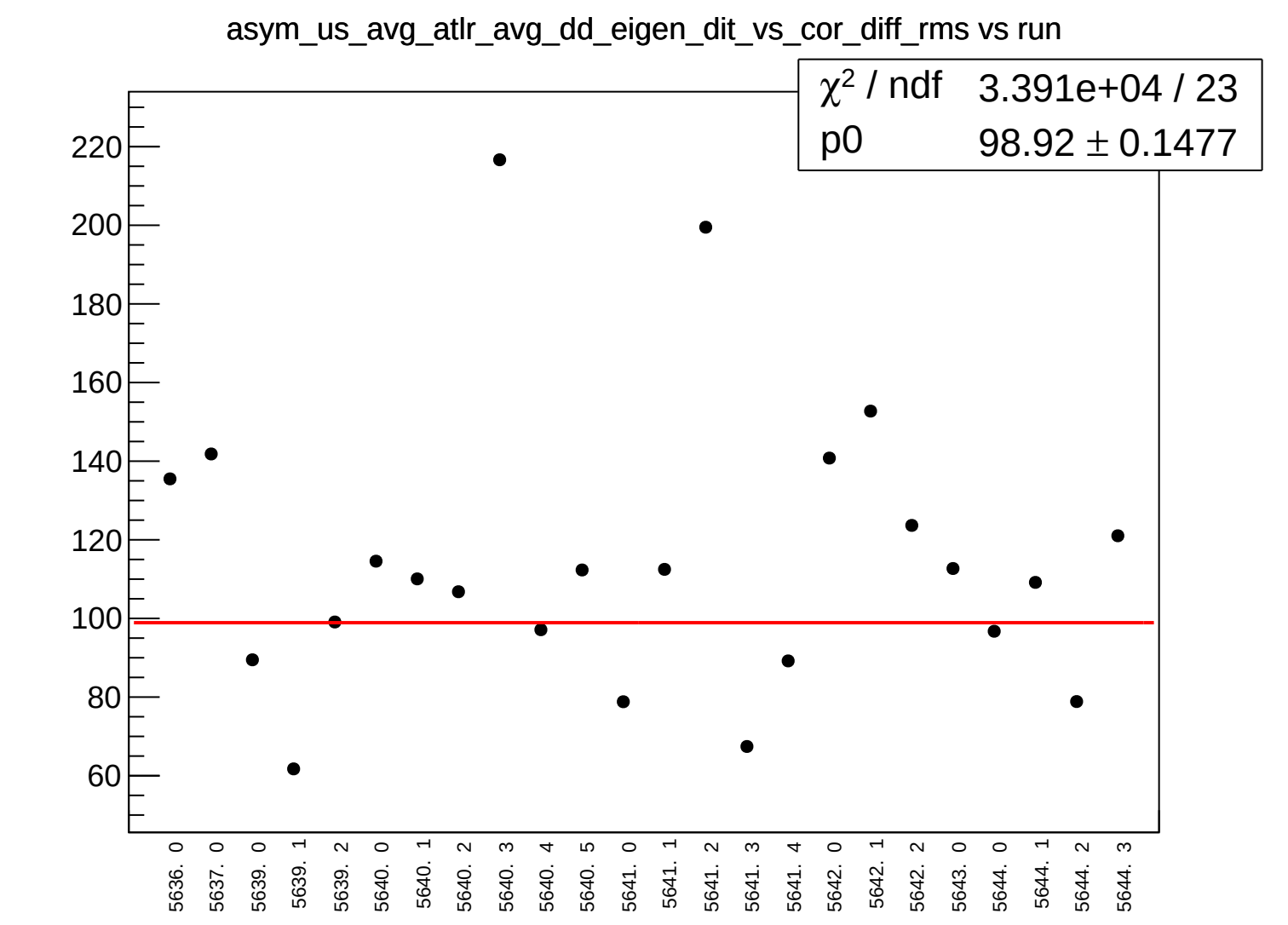

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.16 / 23
p0 0.2216 ± 0.2089
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 33.1
Std Dev 0
pull1D
Entries 24
Mean 0.05978
Std Dev 1.022

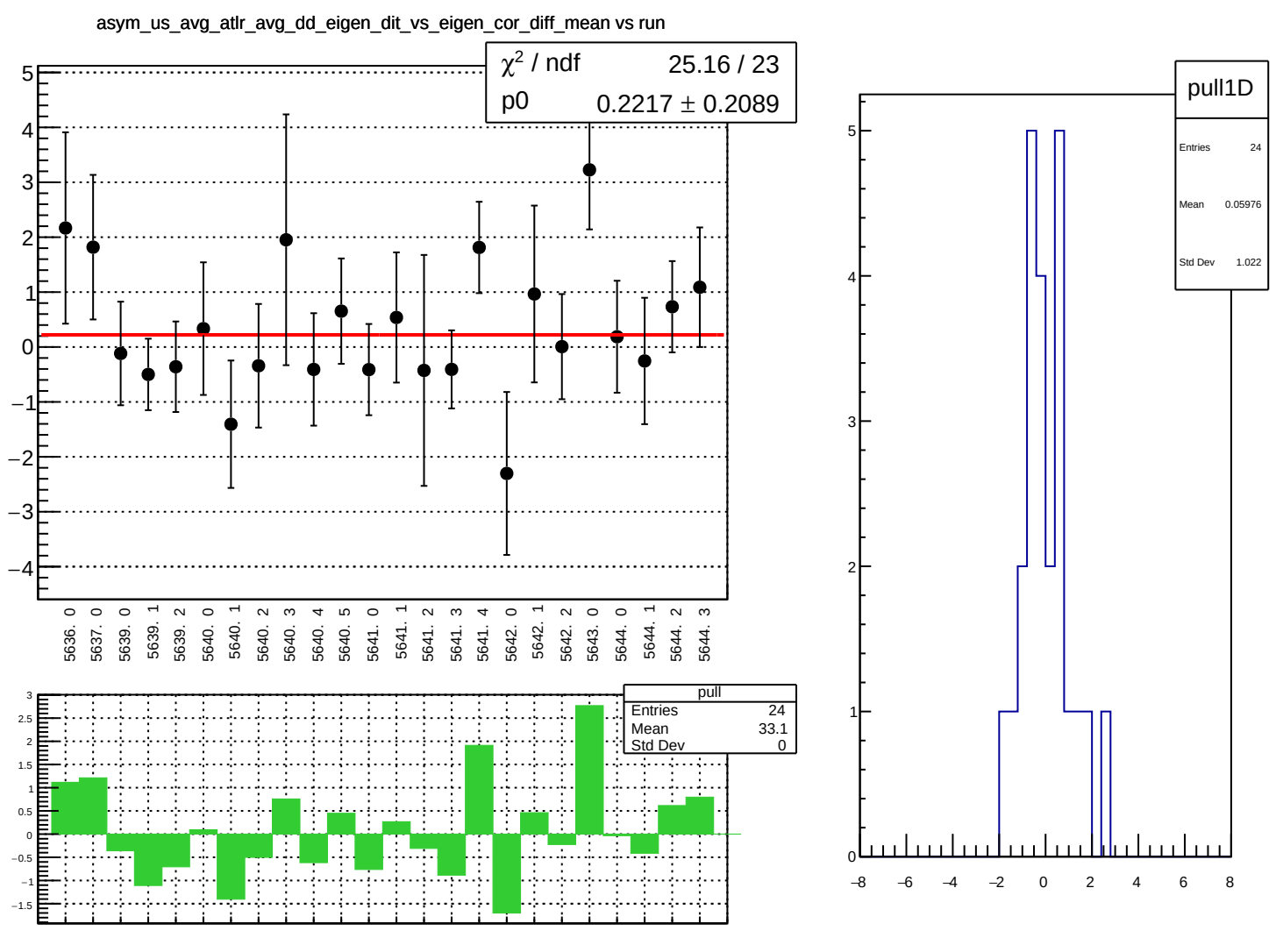

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.391e+04 / 23
p0 98.92 ± 0.1477
220
200
180
160
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

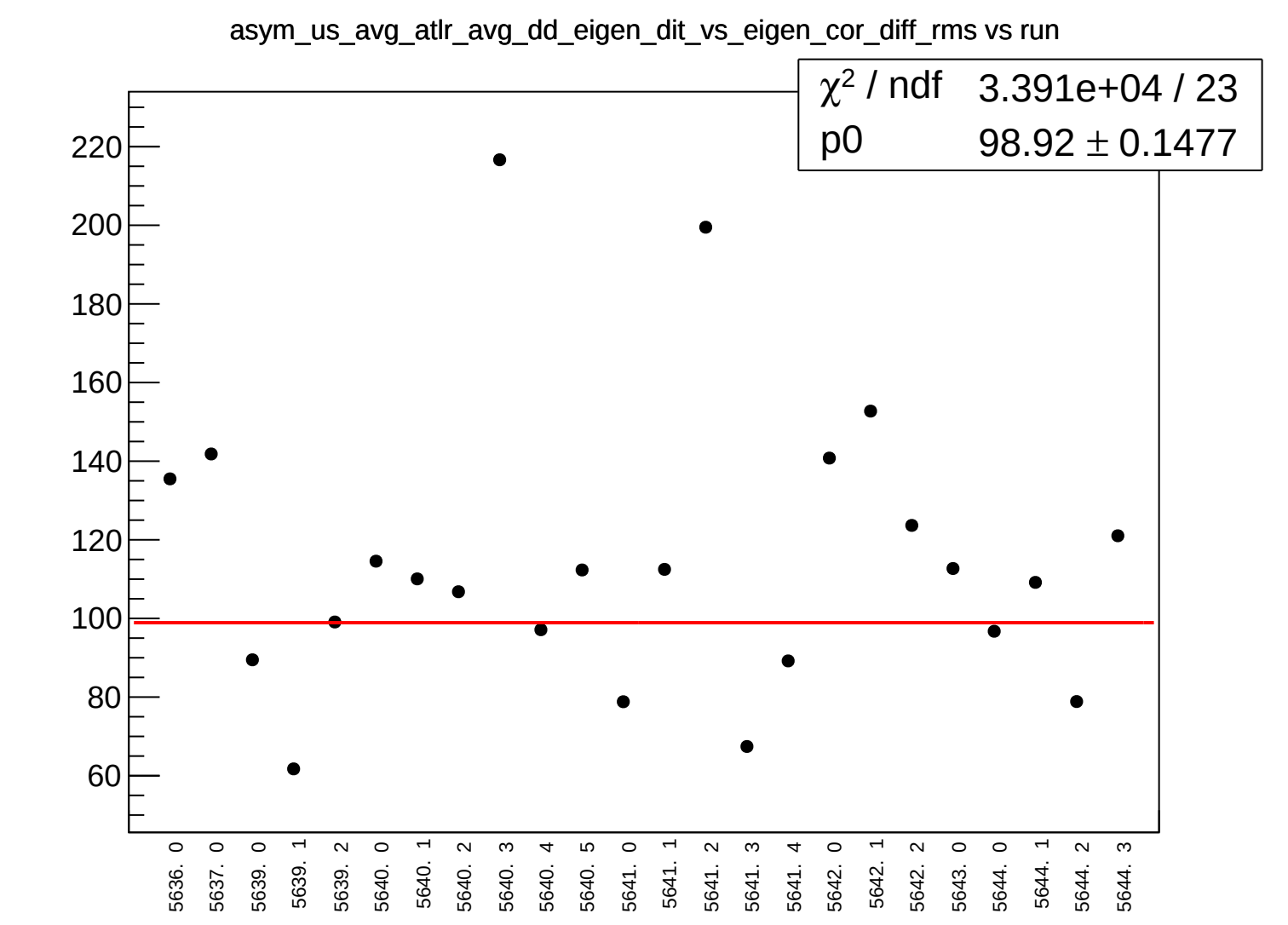

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 14.66 / 23
p0 1.678e−05 ± 2.697e−05
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 148.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.009387
Std Dev 0.7816
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

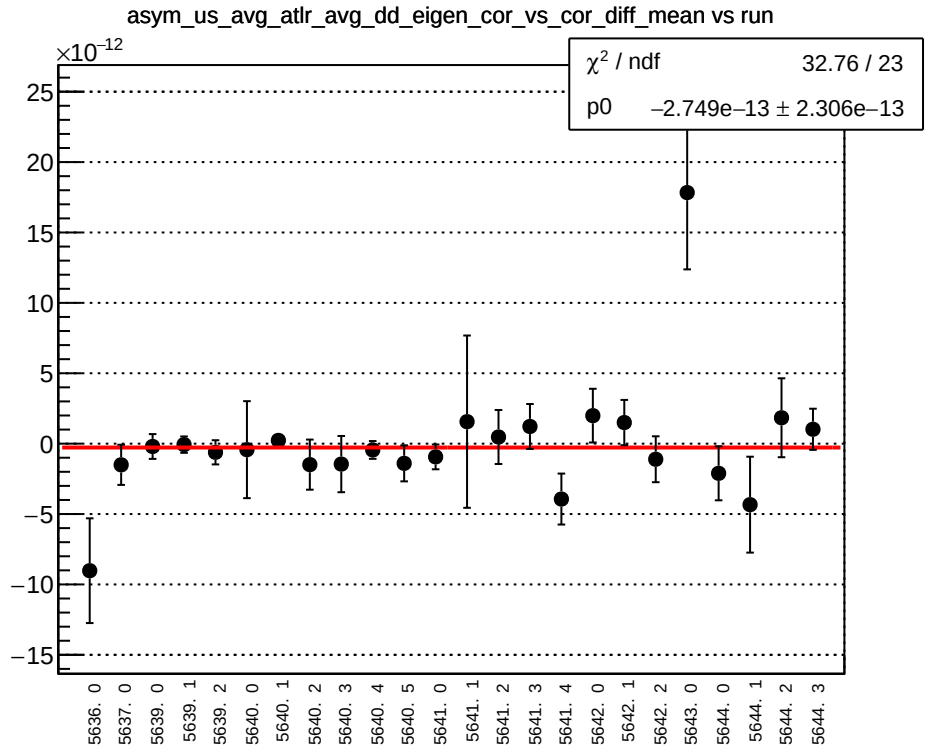

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1079 / 23
p0 0.01323 ± 1.907e−05
0.0145
0.014
0.0135
0.013
0.0125
0.012
0.0115
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 25.16 / 23
p0 0.2217 ± 0.2089
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 33.1
Std Dev 0
pull1D
Entries 24
Mean 0.05976
Std Dev 1.022


asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.391e+04 / 23
p0 98.92 ± 0.1477
220
200
180
160
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.16 / 23
p0 0.2217 ± 0.2089
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 33.1
Std Dev 0
pull1D
Entries 24
Mean 0.05976
Std Dev 1.022


asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.391e+04 / 23
p0 98.92 ± 0.1477
220
200
180
160
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 32.76 / 23
p0 −2.749e−13 ± 2.306e−13
25
20
15
10
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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5642. 0
5642. 1
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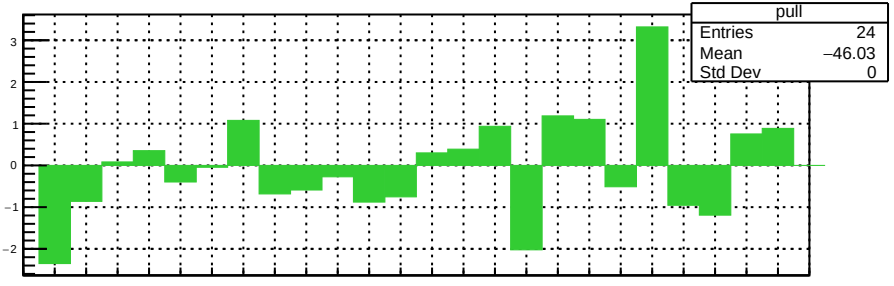
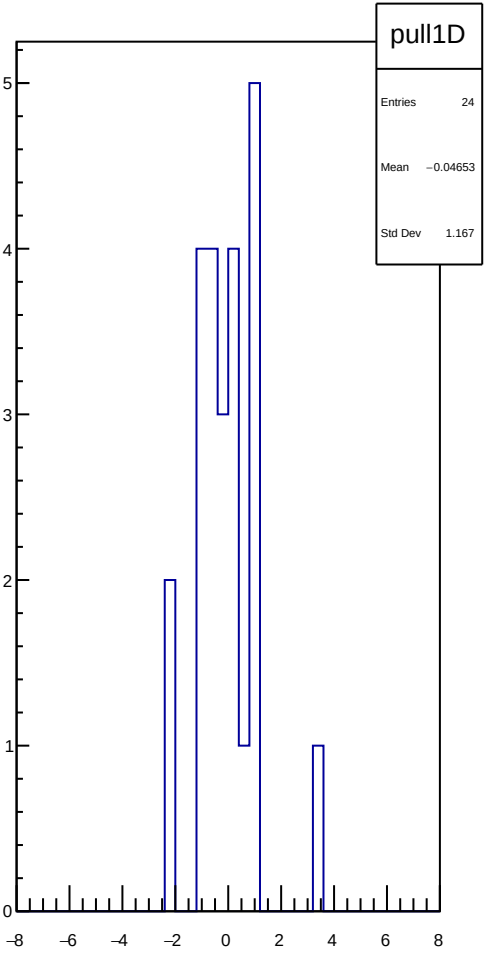
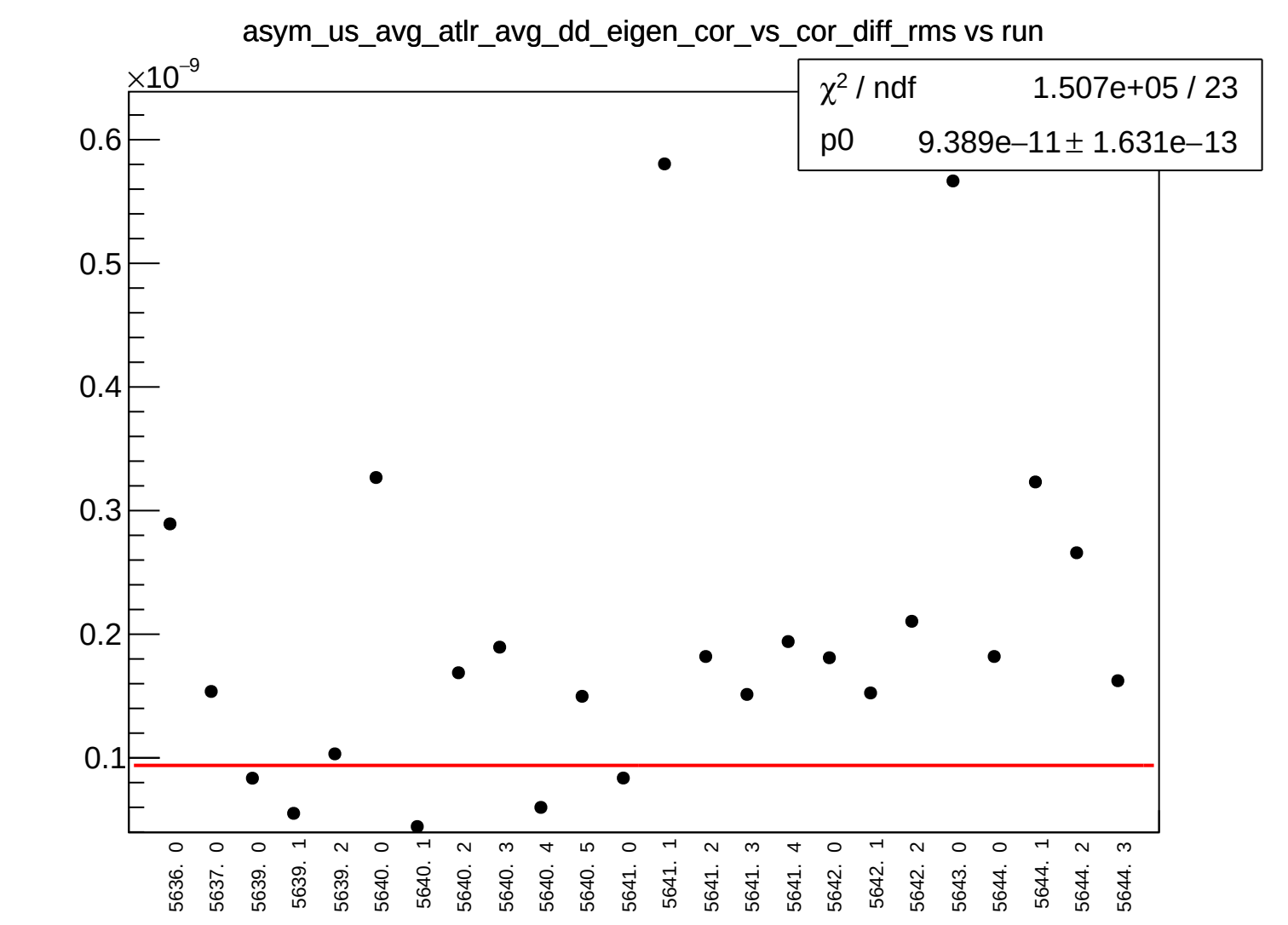
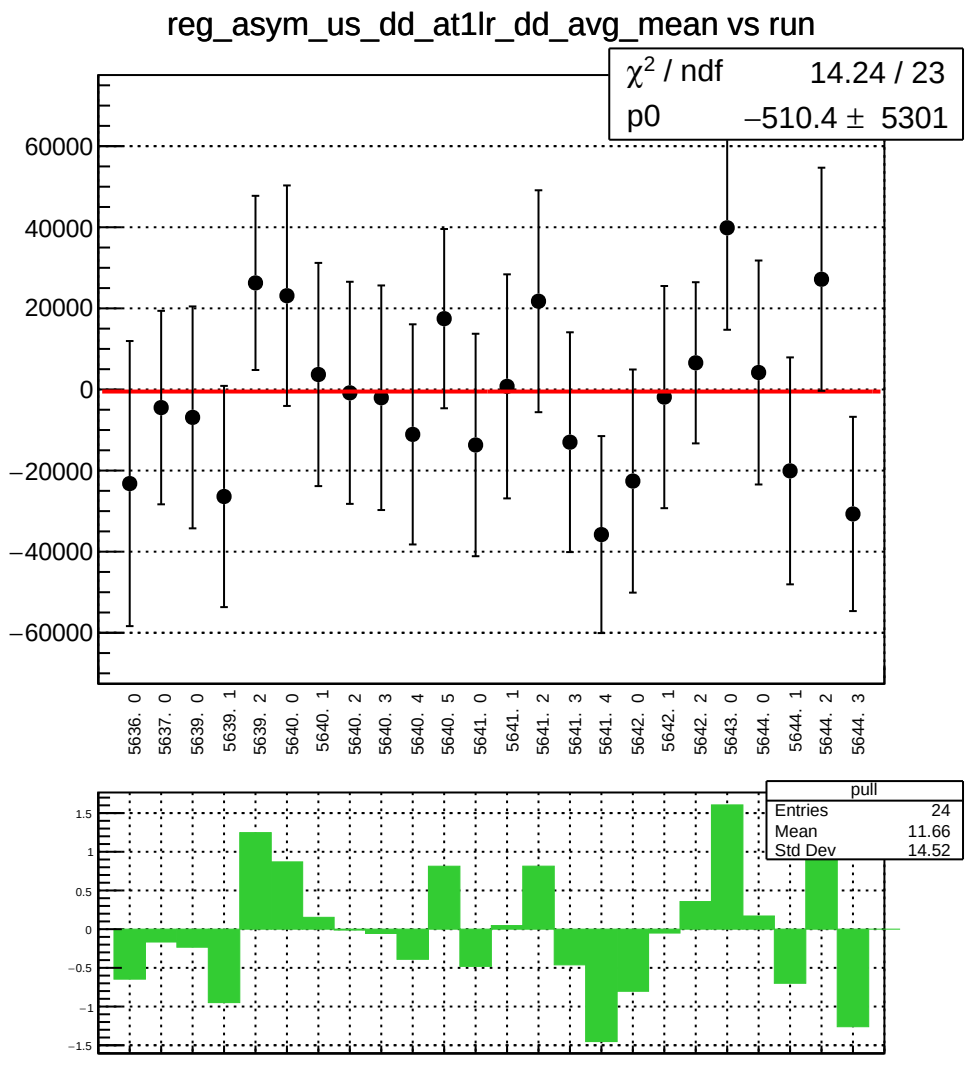
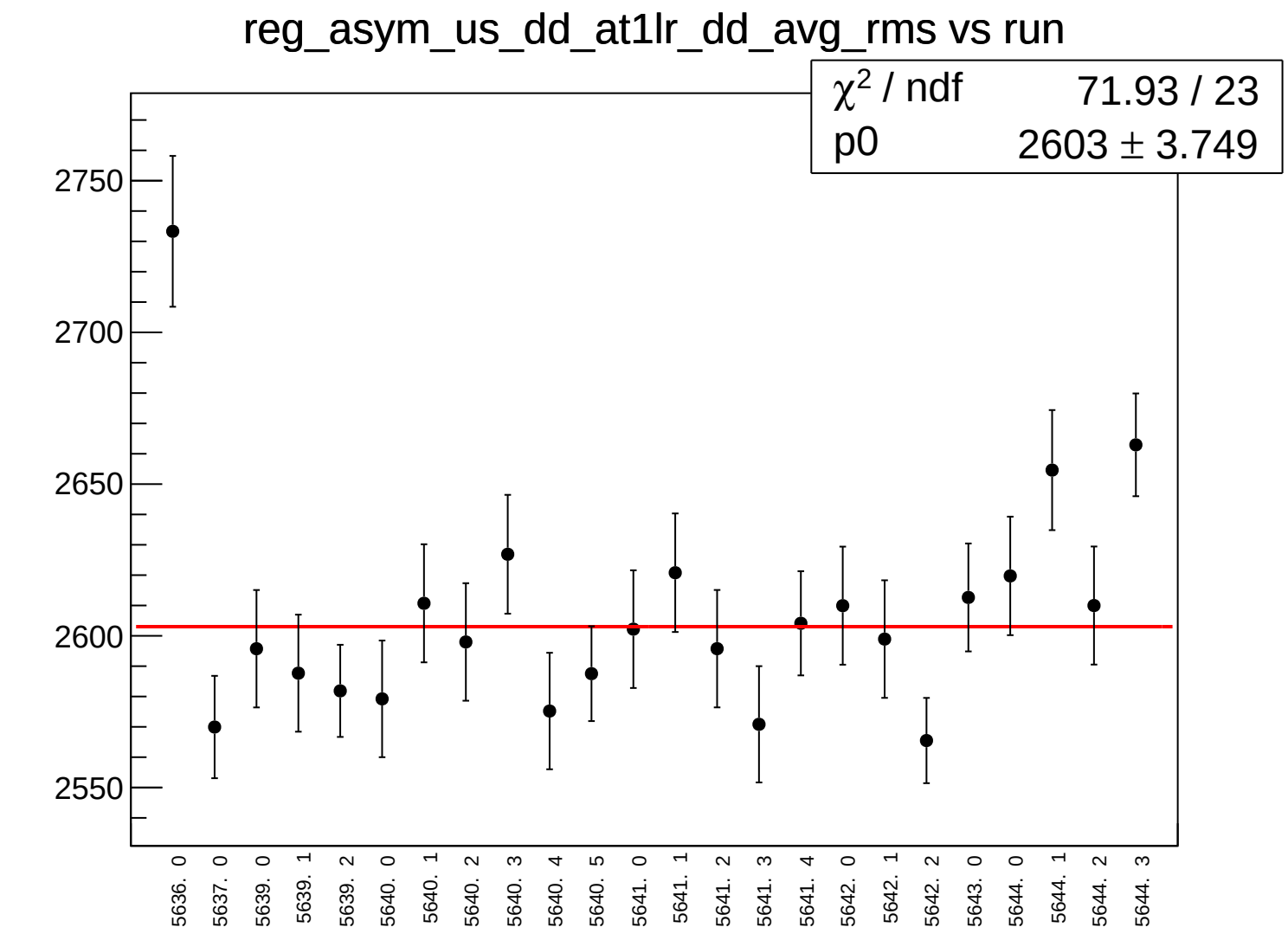
5644. 0
5644. 1
5644. 2
5644. 3

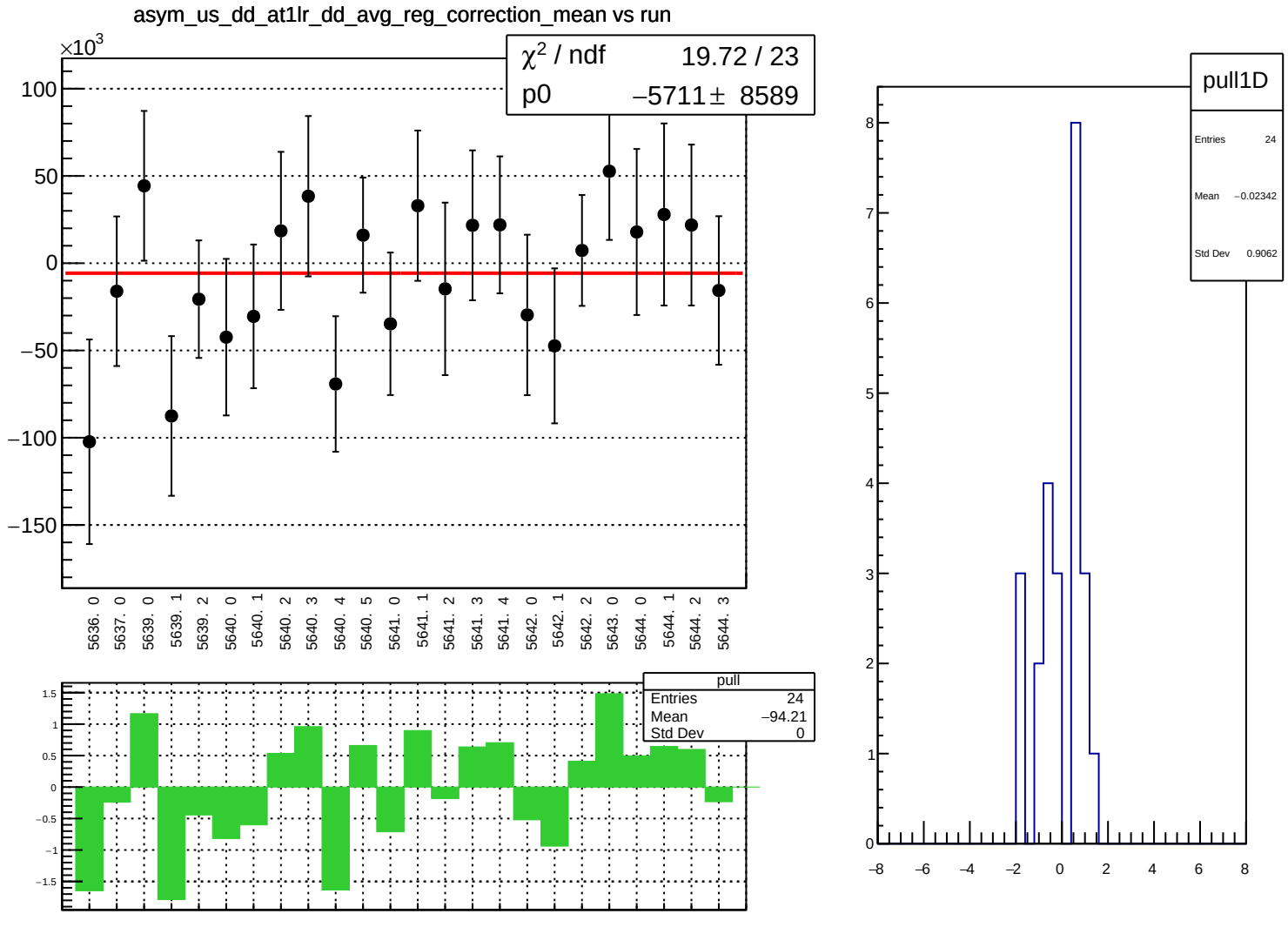

pull
Entries 24
Mean −46.03
Std Dev 0
3
2
1
0
−1
−2

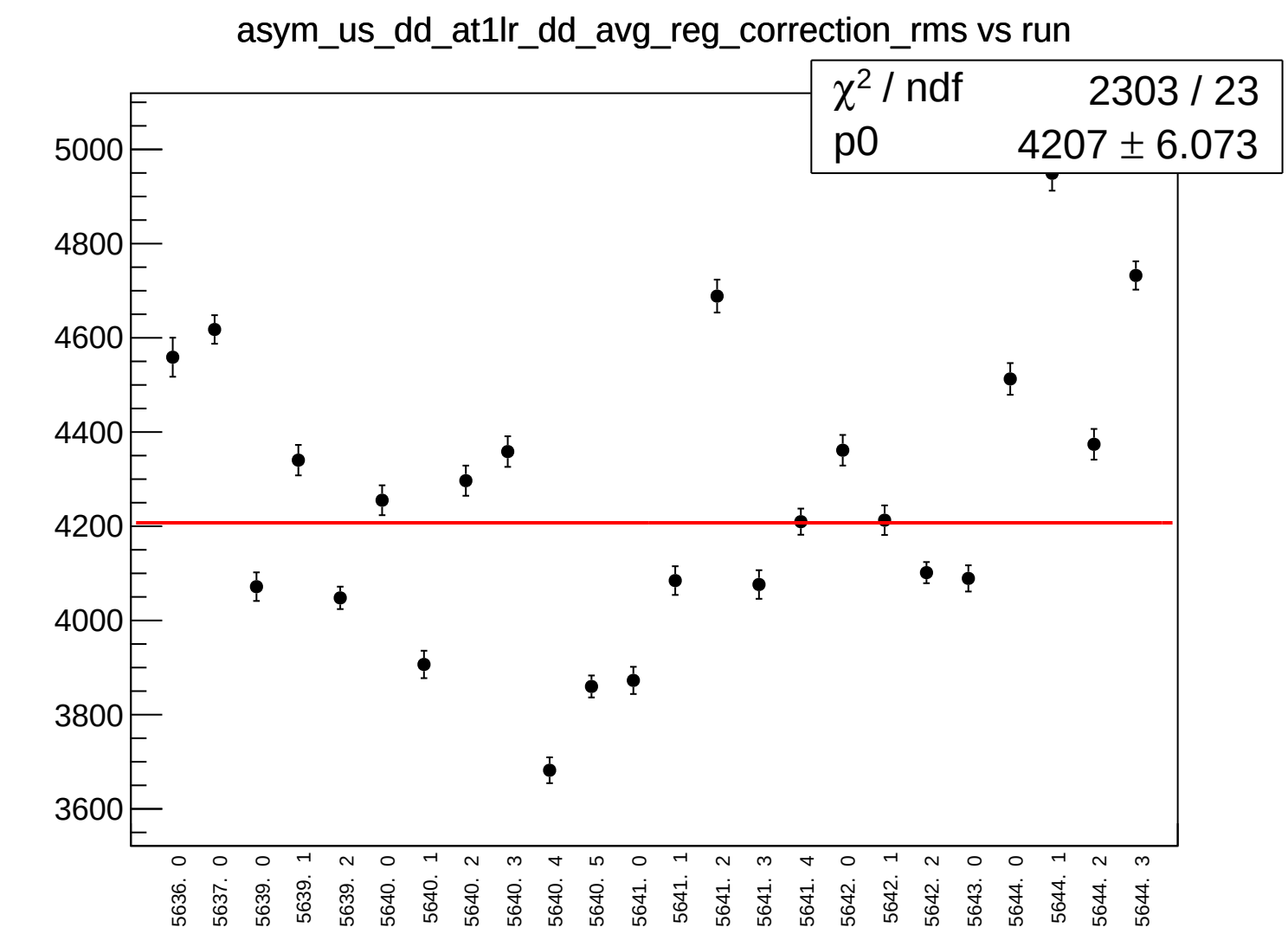

pull1D
Entries 24
Mean −0.04653
Std Dev 1.167
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

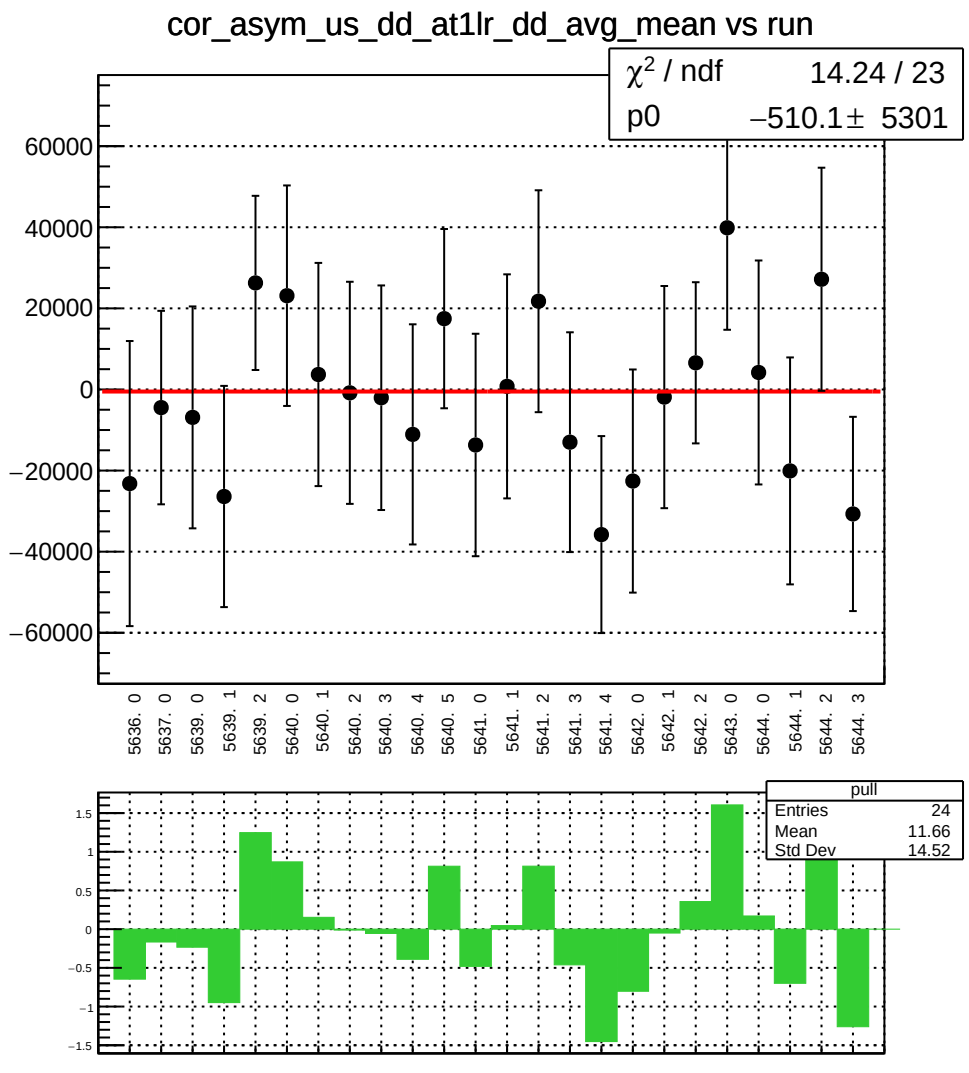

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.507e+05 / 23
p0 9.389e−11 ± 1.631e−13
0.6
0.5
0.4
0.3
0.2
0.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

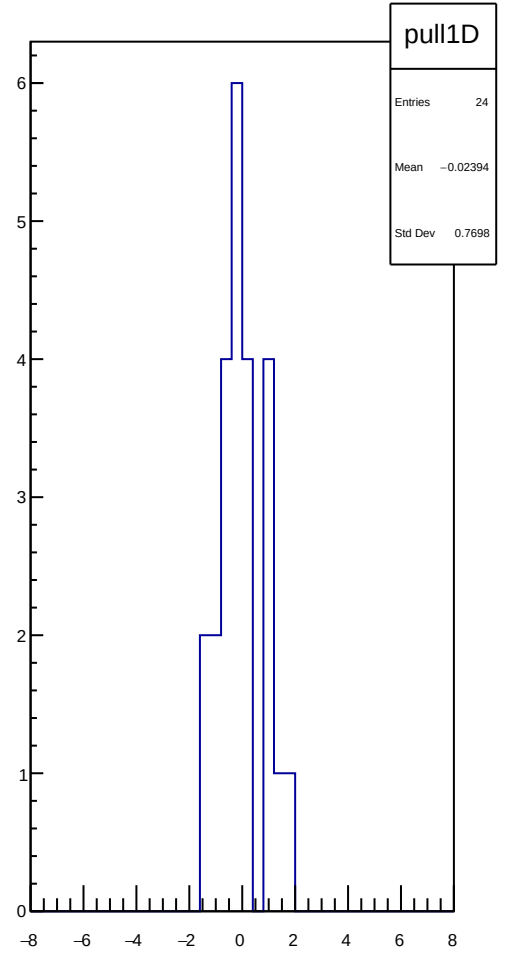

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 14.24 / 23
p0 −510.4 ± 5301
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 11.66
Std Dev 14.52
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.02394
Std Dev 0.7698
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

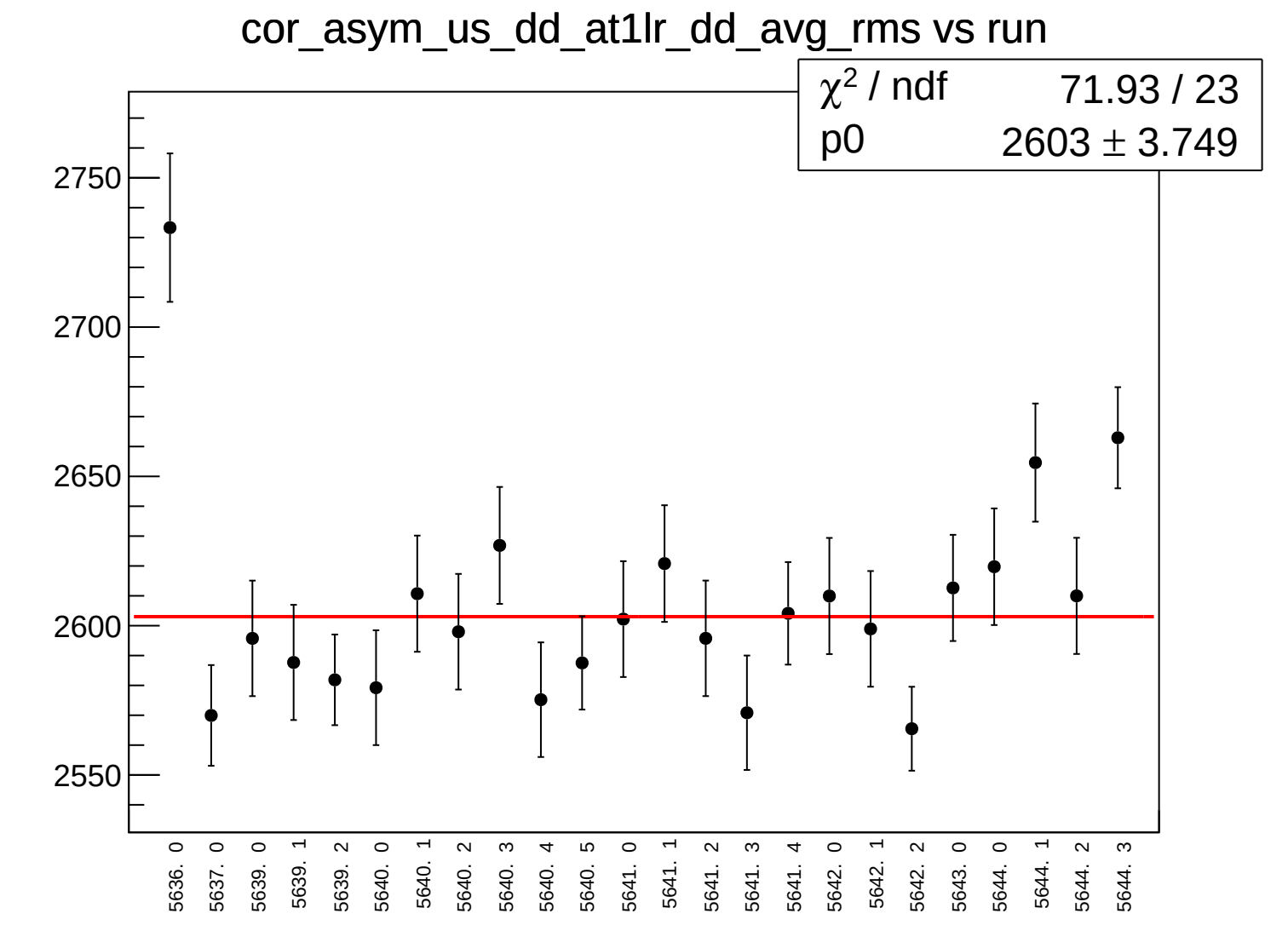

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 71.93 / 23
p0 2603 ± 3.749
2750
2700
2650
2600
2550
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

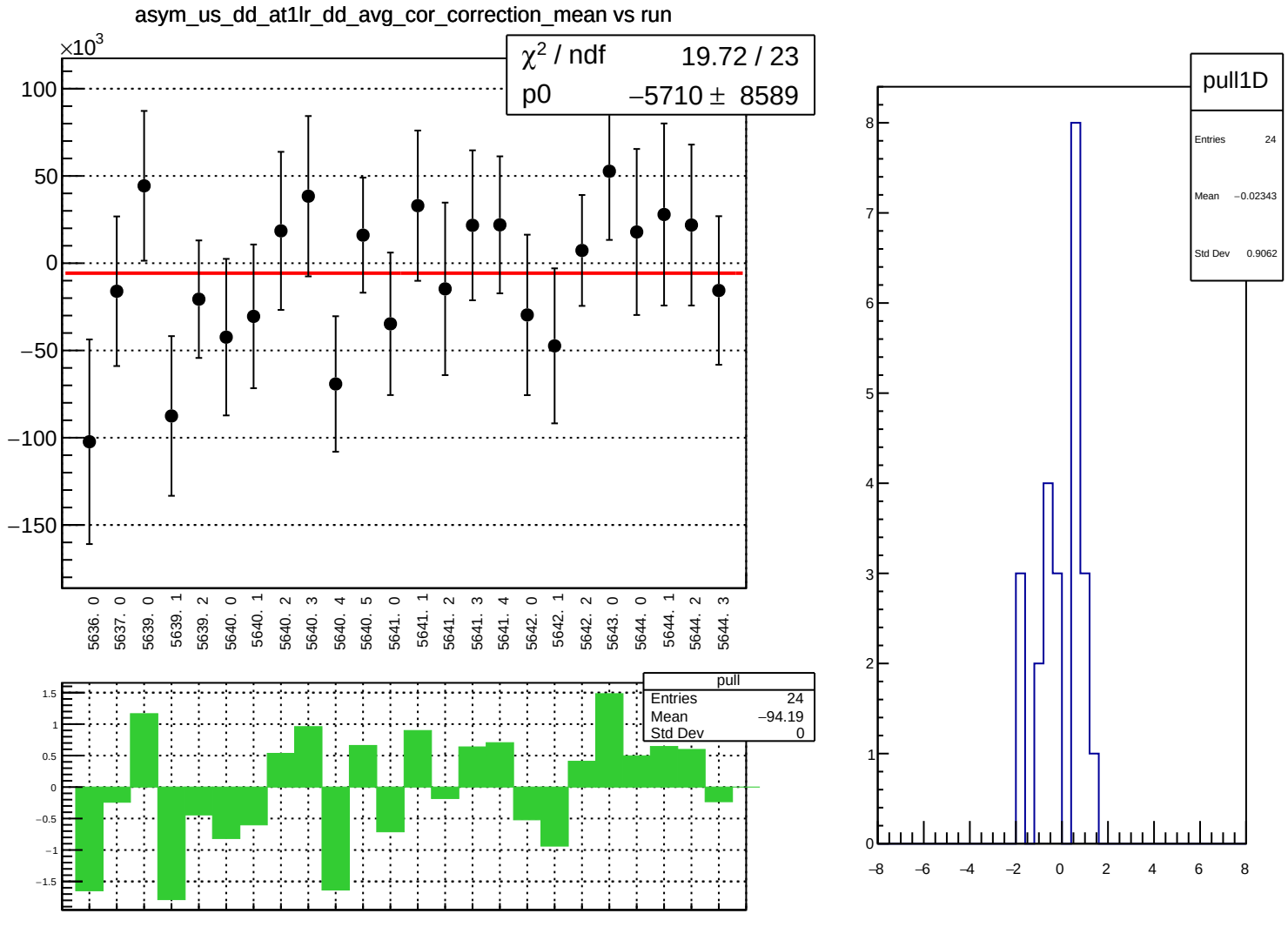

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 19.72 / 23
p0 −5711 ± 8589
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −94.21
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.02342
Std Dev 0.9062
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

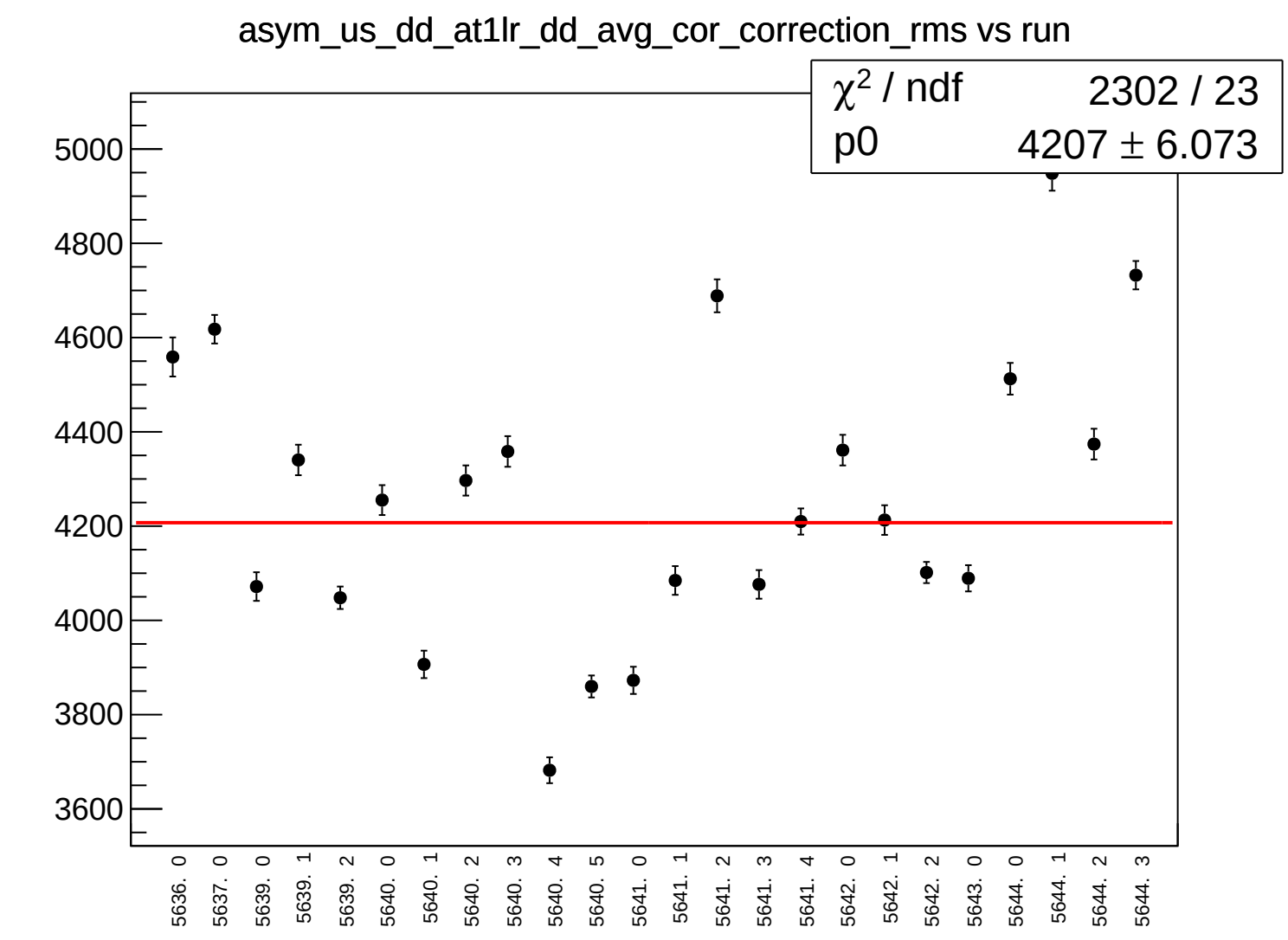

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 2303 / 23
p0 4207 ± 6.073
5000
4800
4600
4400
4200
4000
3800
3600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

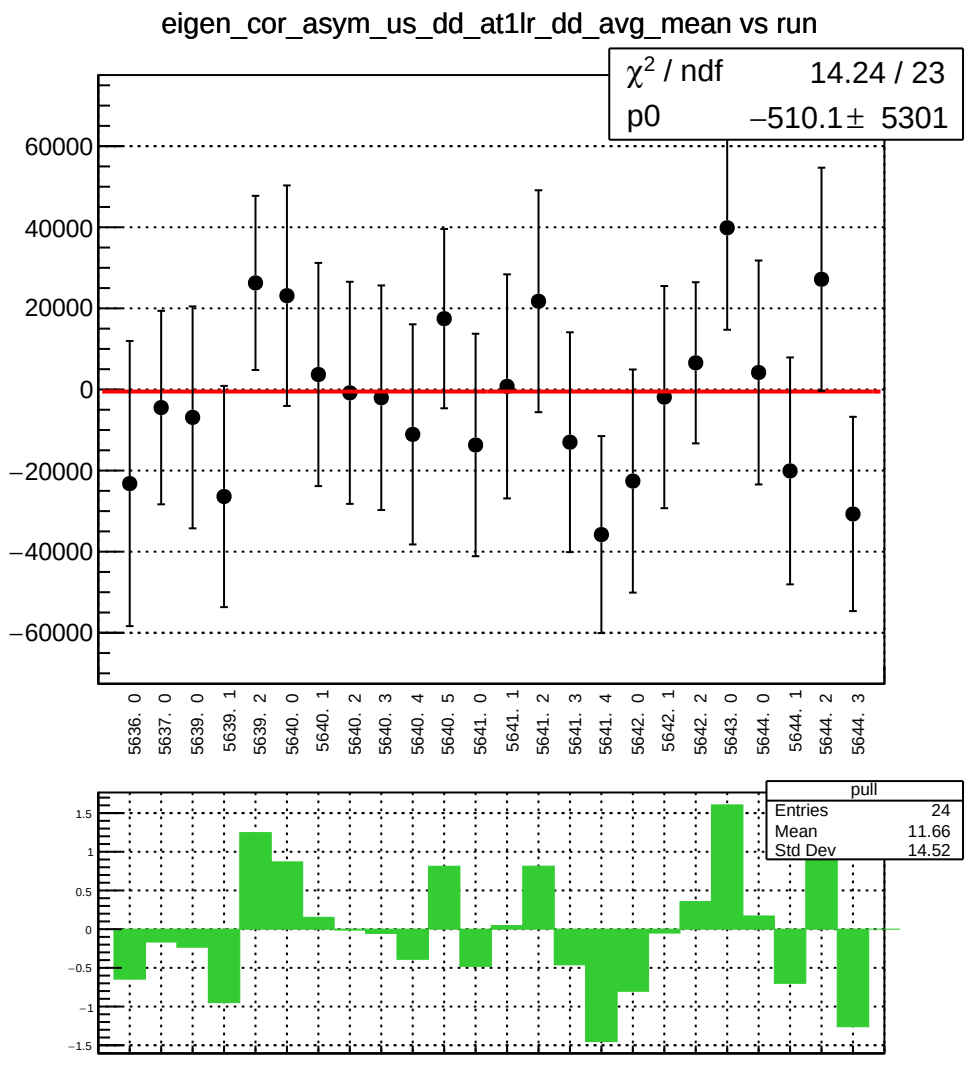

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 14.24 / 23
p0 −510.1± 5301
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 11.66
Std Dev 14.52
1.5
1
0.5
0
−0.5
−1
−1.5

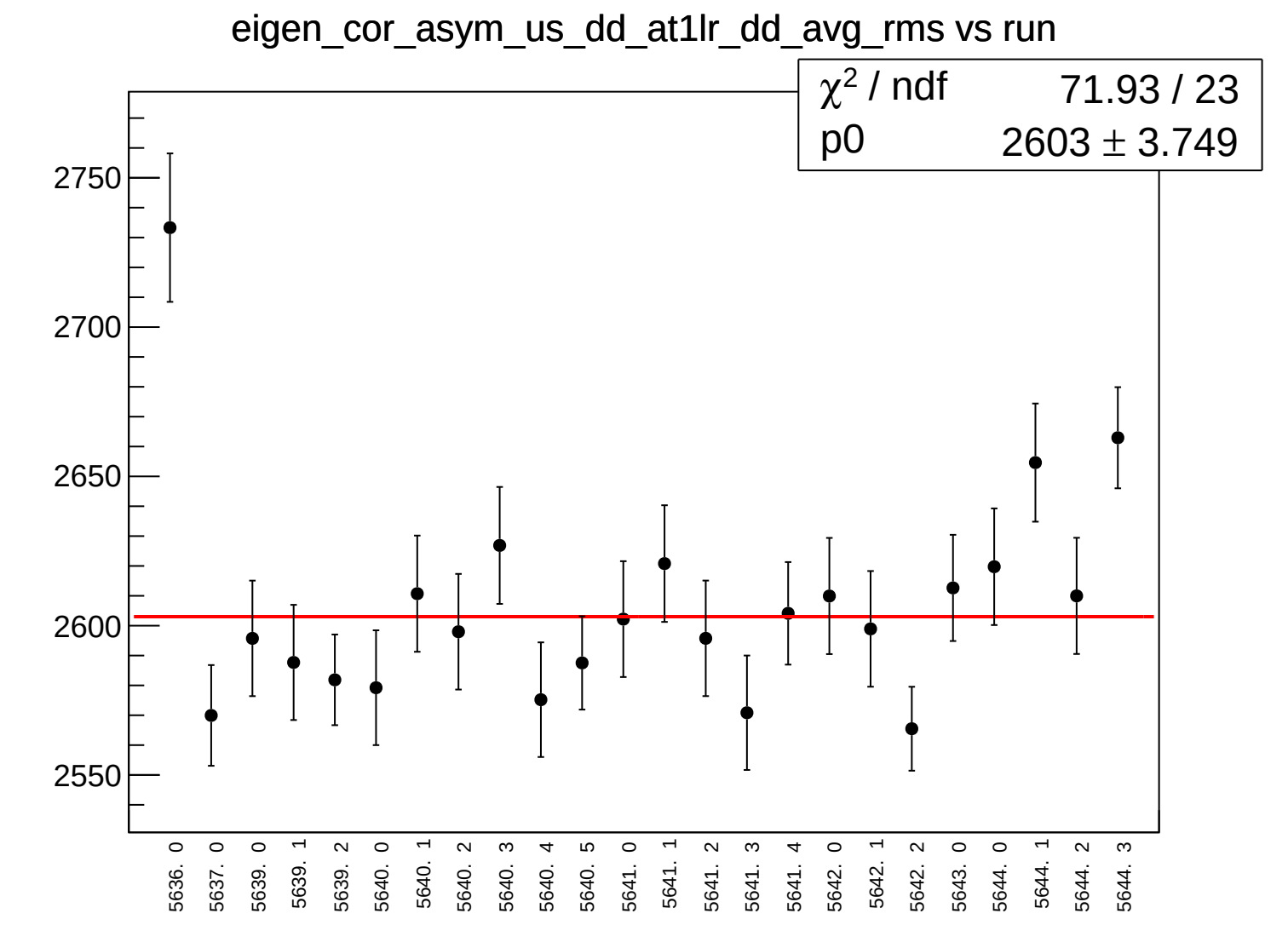

pull1D
Entries 24
Mean −0.02394
Std Dev 0.7698
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

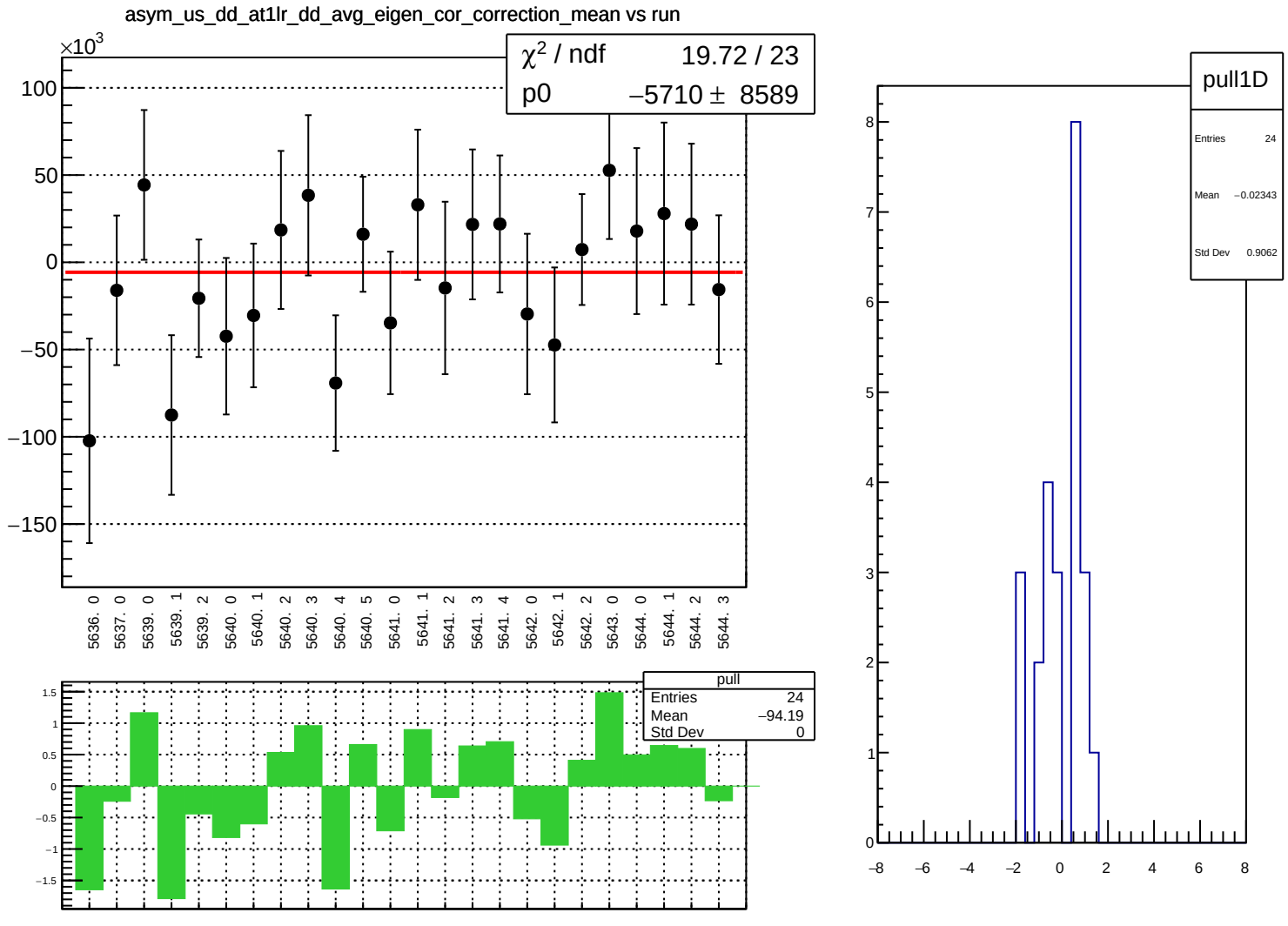

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 71.93 / 23
p0 2603 ± 3.749
2750
2700
2650
2600
2550
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

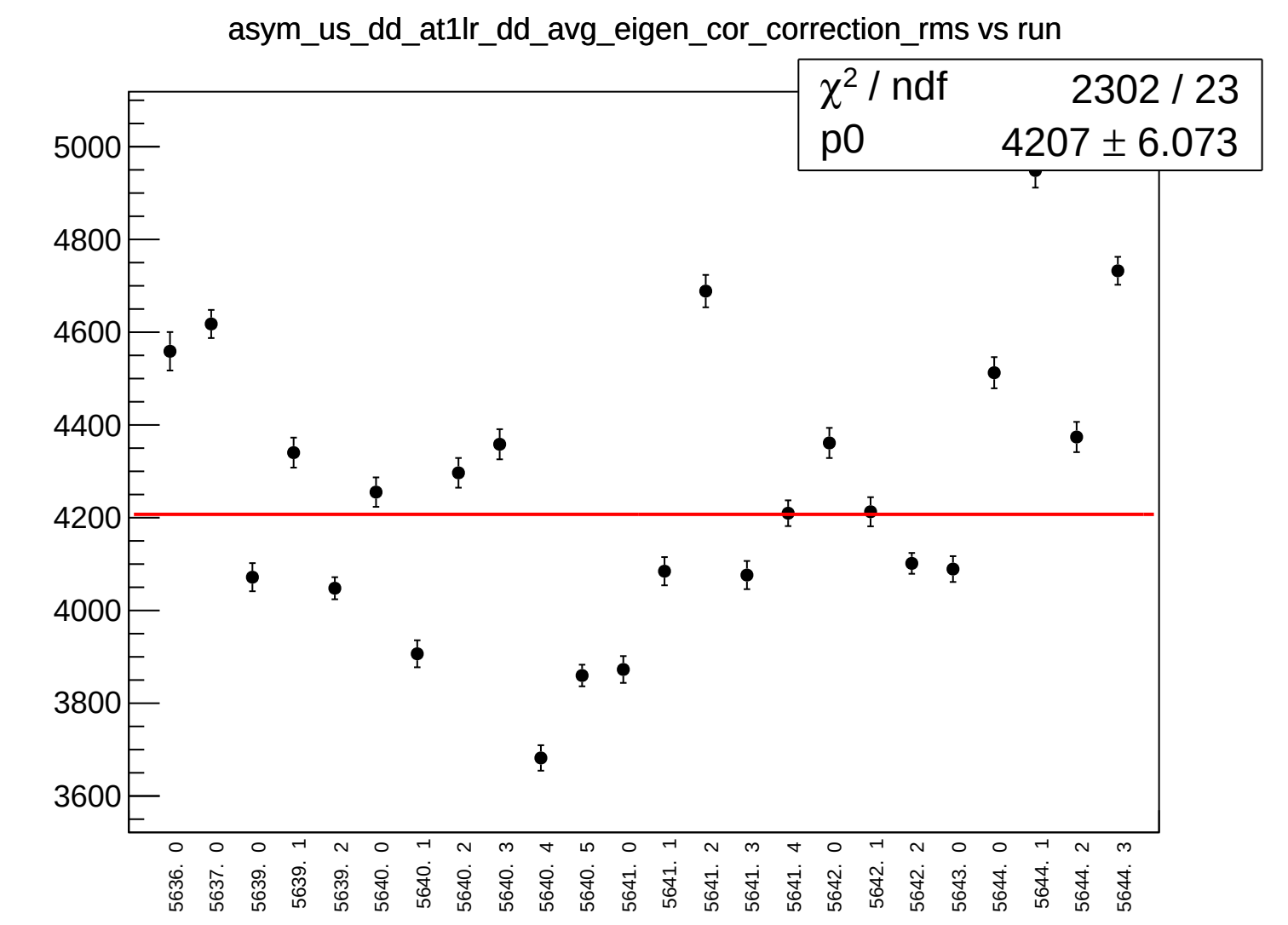

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 19.72 / 23
p0 −5710 ± 8589
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −94.19
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.02343
Std Dev 0.9062
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

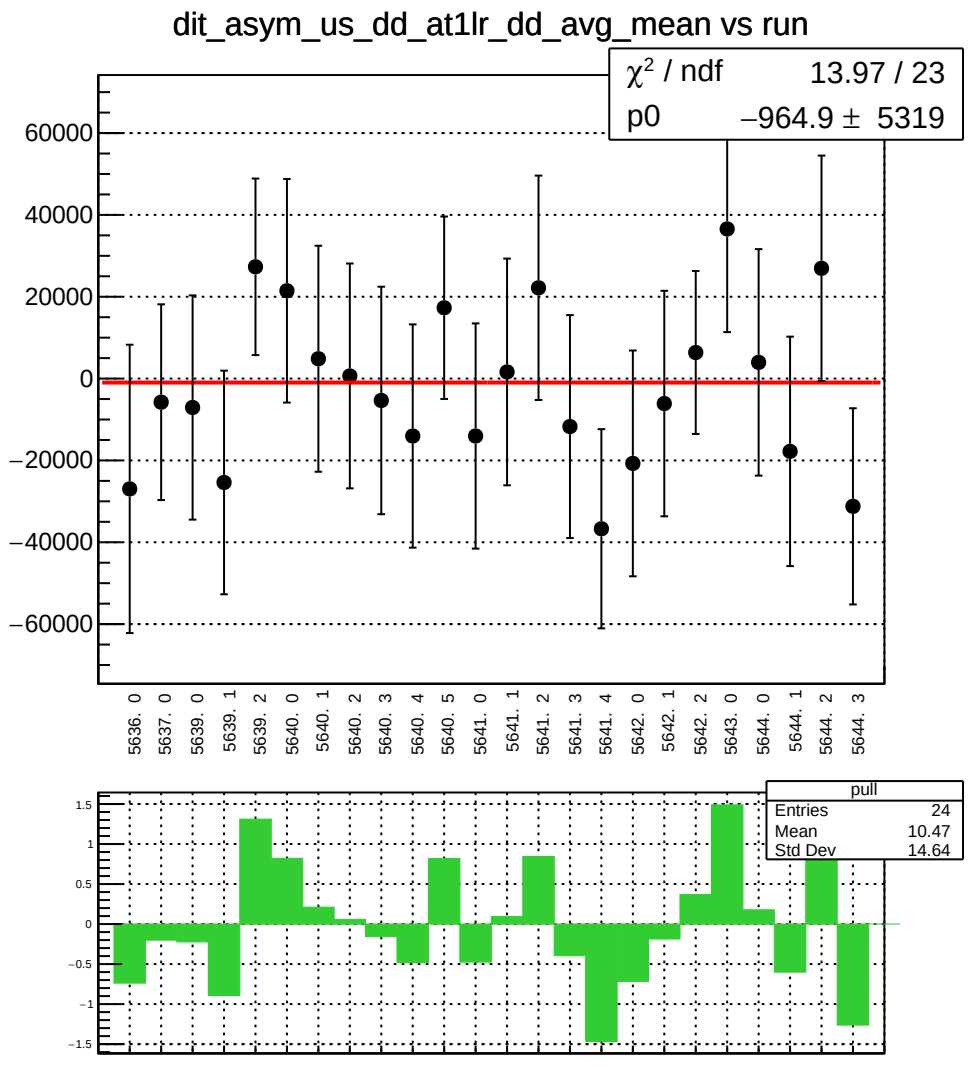

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 2302 / 23
p0 4207 ± 6.073
5000
4800
4600
4400
4200
4000
3800
3600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

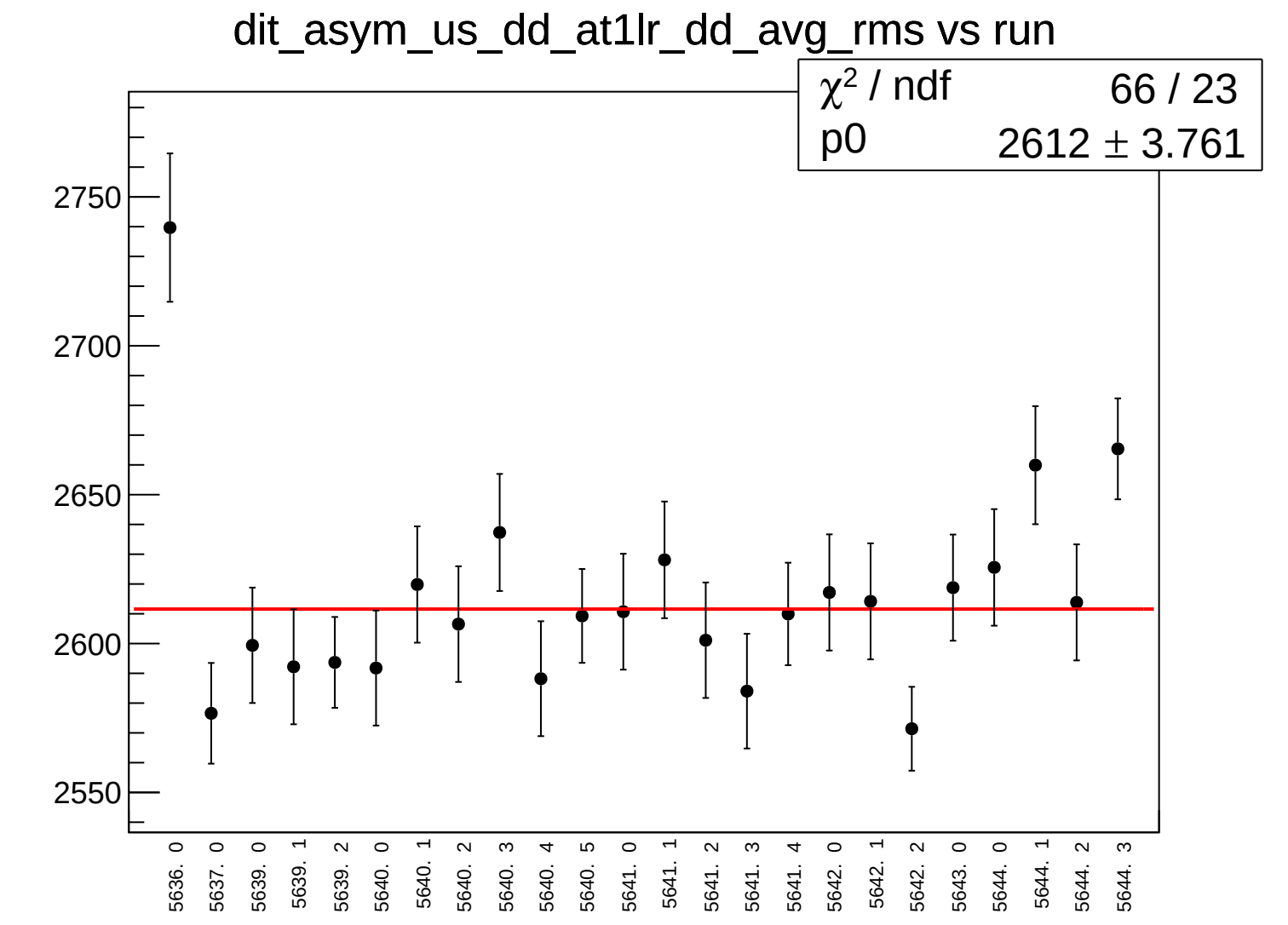

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 14.24 / 23
p0 −510.1± 5301
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 11.66
Std Dev 14.52
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.02394
Std Dev 0.7698
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

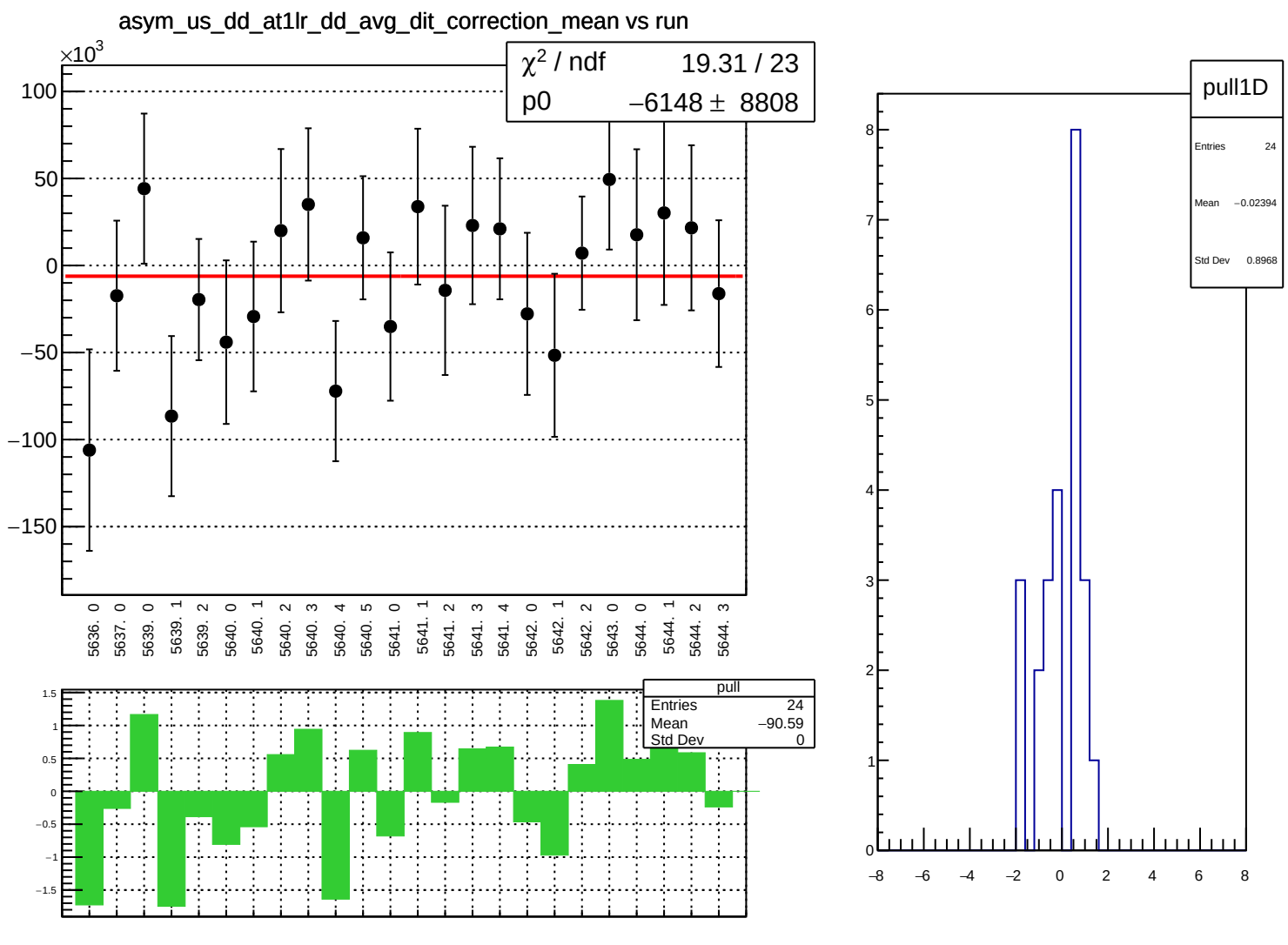

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 71.93 / 23
p0 2603 ± 3.749
2750
2700
2650
2600
2550
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

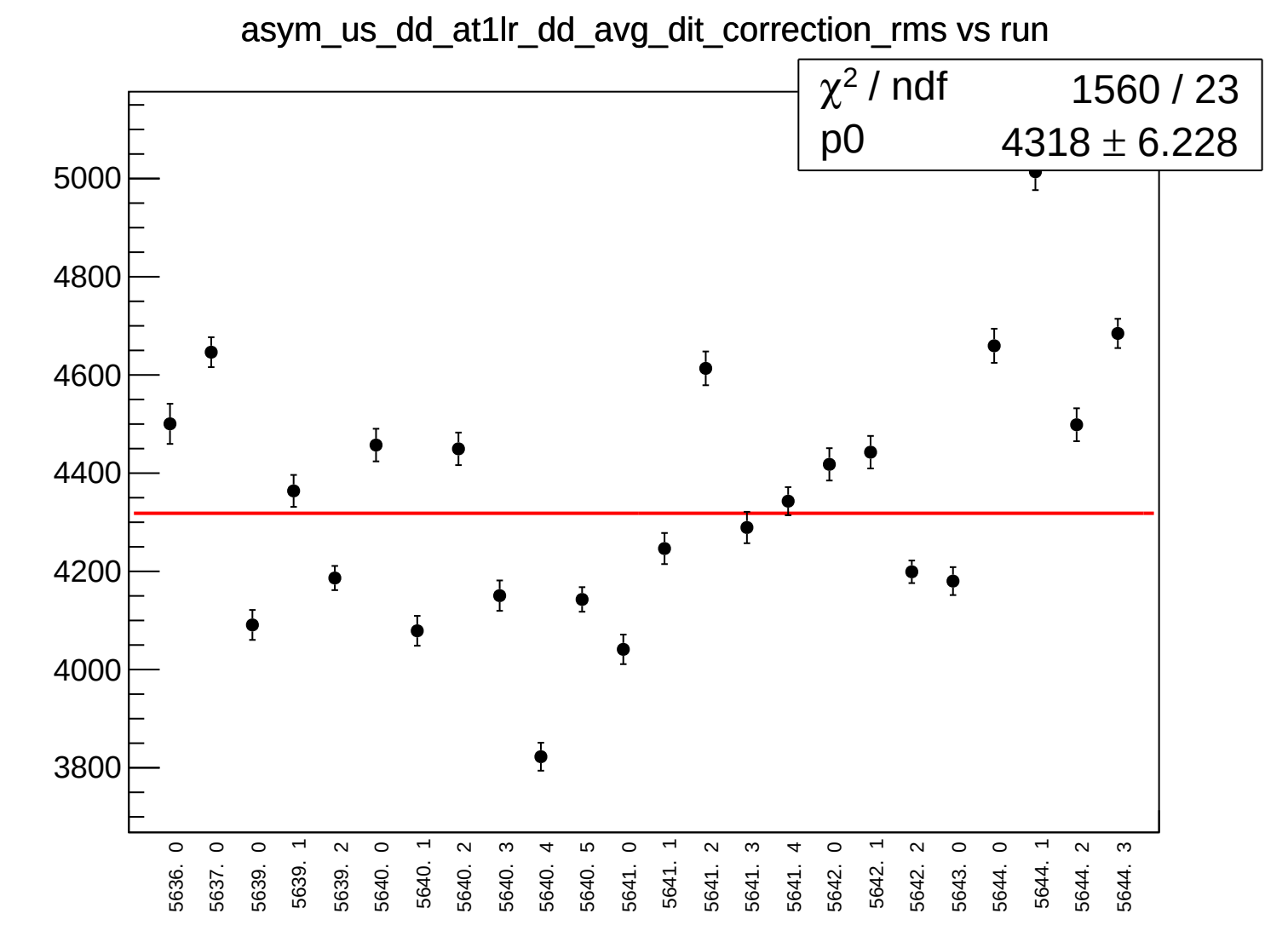

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 19.72 / 23
p0 −5710 ± 8589
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −94.19
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.02343
Std Dev 0.9062
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

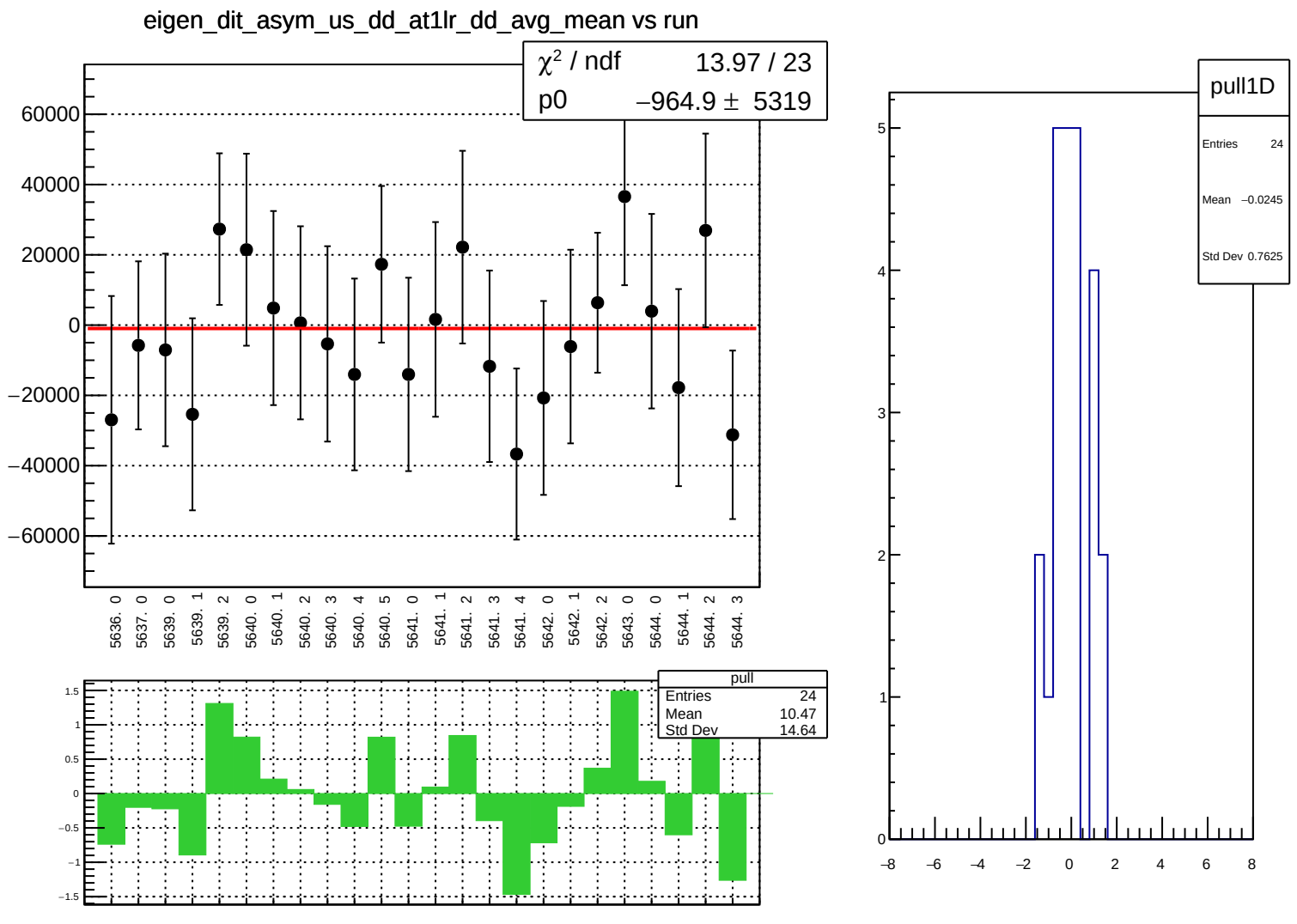

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2302 / 23
p0 4207 ± 6.073
5000
4800
4600
4400
4200
4000
3800
3600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

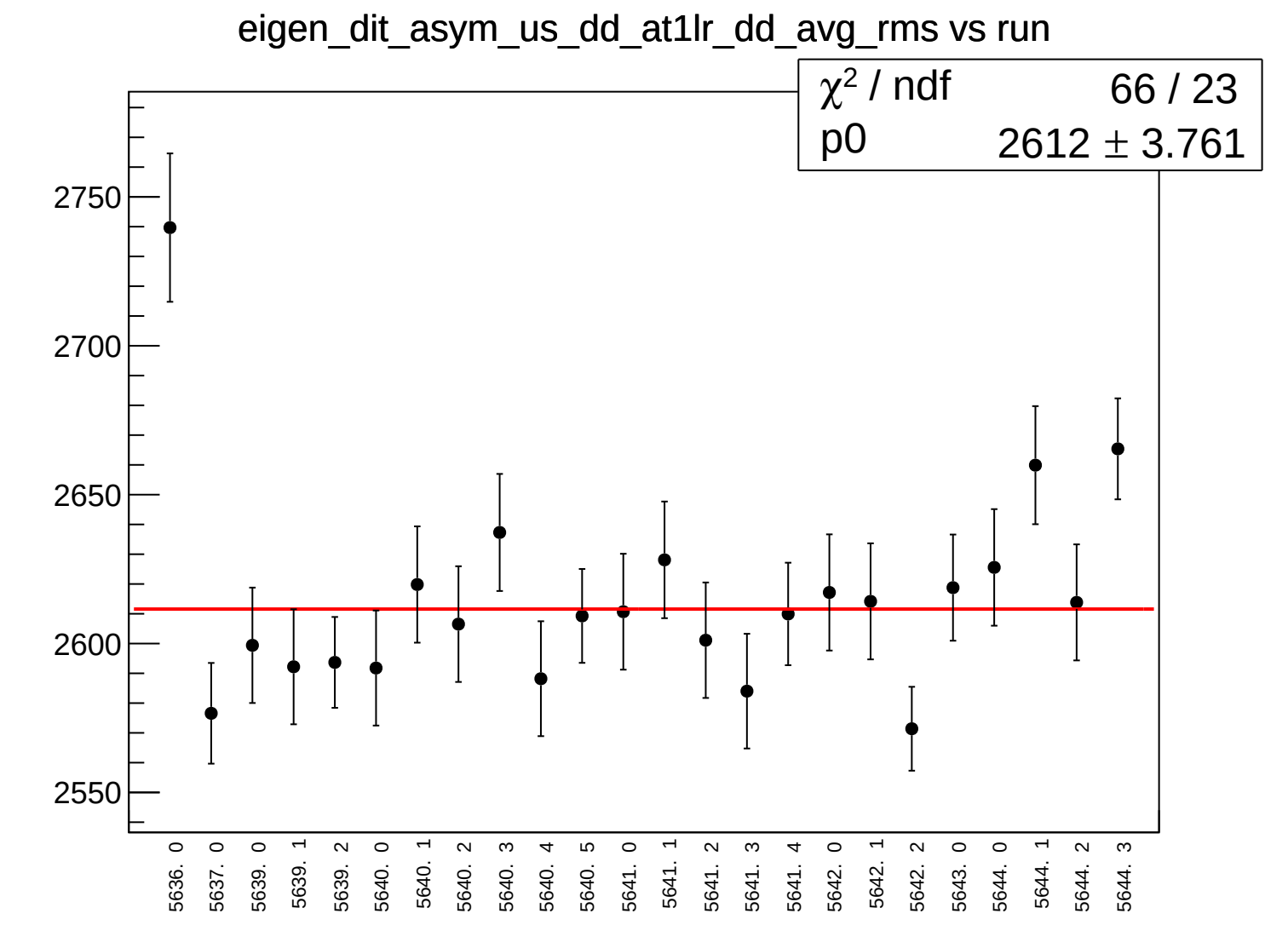

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 13.97 / 23
p0 −964.9 ± 5319
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 10.47
Std Dev 14.64
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.0245
Std Dev 0.7625
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 66 / 23
p0 2612 ± 3.761
2750
2700
2650
2600
2550
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 19.31 / 23
p0 −6148 ± 8808
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −90.59
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.02394
Std Dev 0.8968
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 1560 / 23
p0 4318 ± 6.228
5000
4800
4600
4400
4200
4000
3800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 13.97 / 23
p0 −964.9 ± 5319
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 10.47
Std Dev 14.64
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.0245
Std Dev 0.7625
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 66 / 23
p0 2612 ± 3.761
2750
2700
2650
2600
2550
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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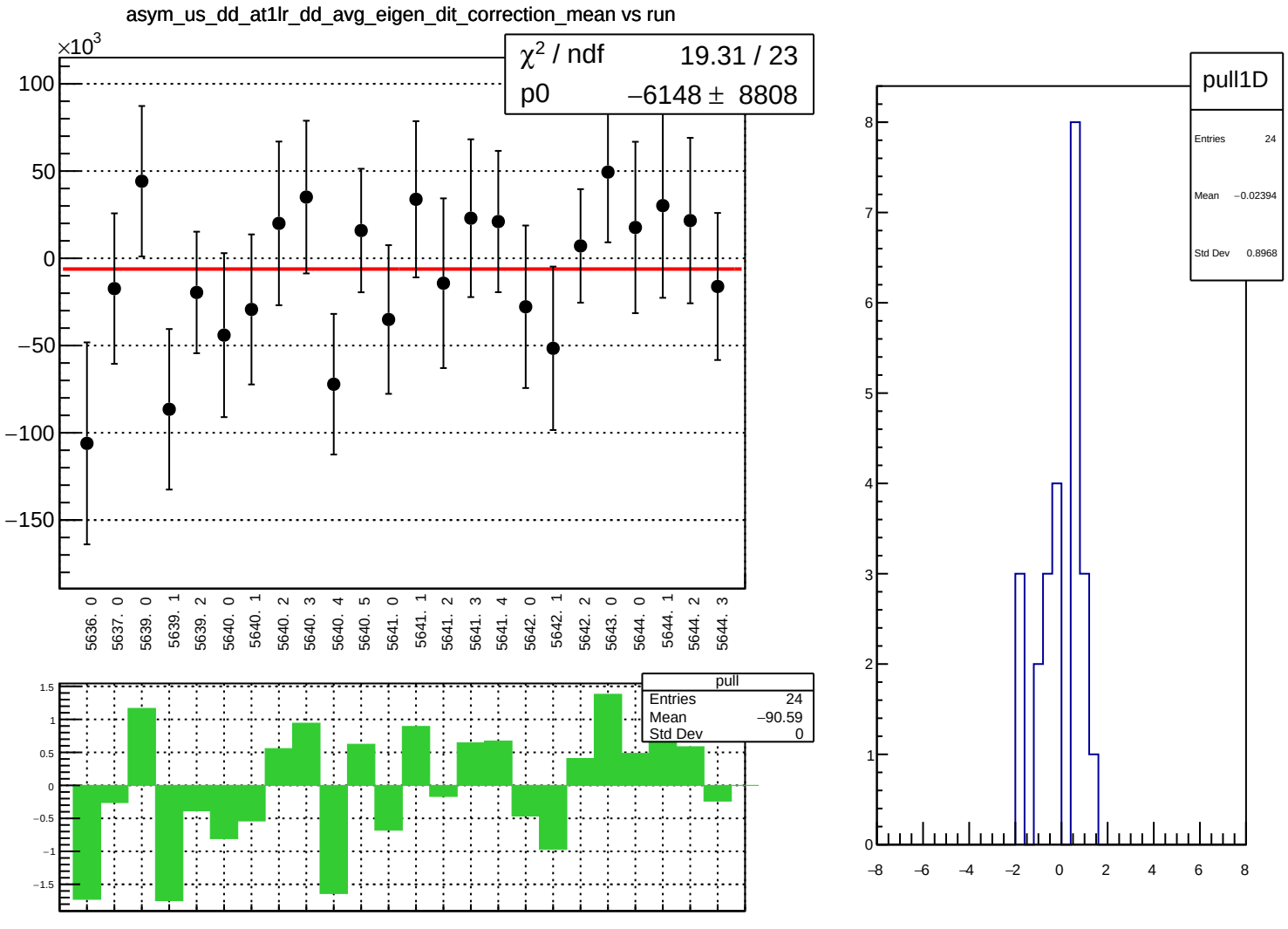
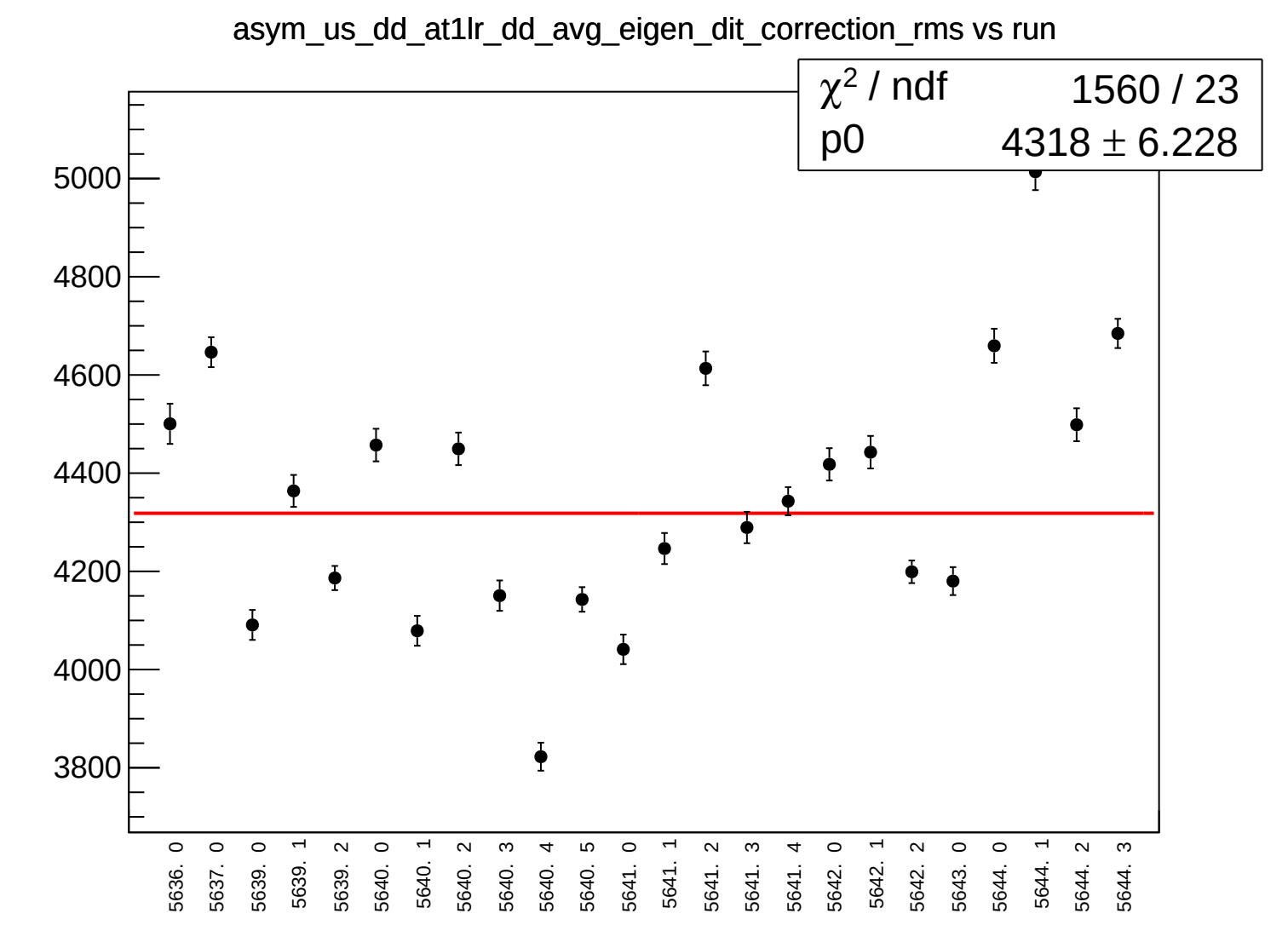
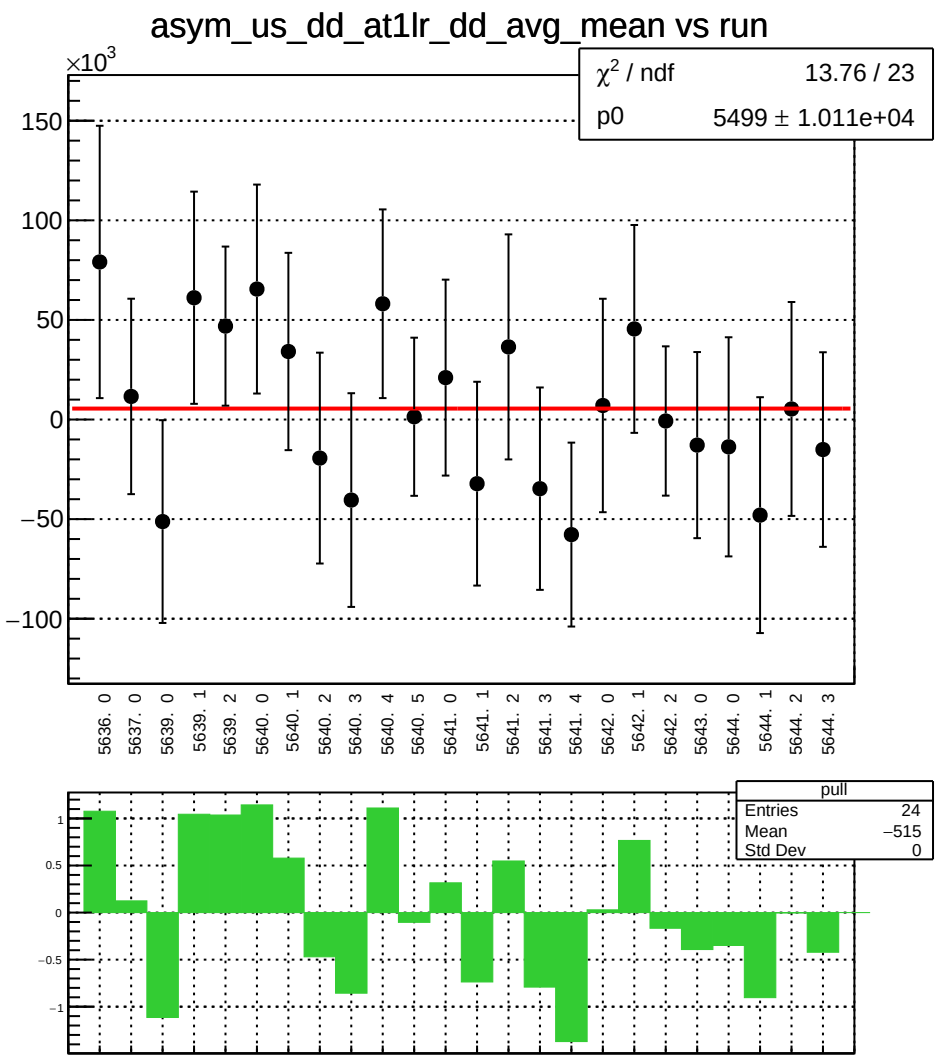
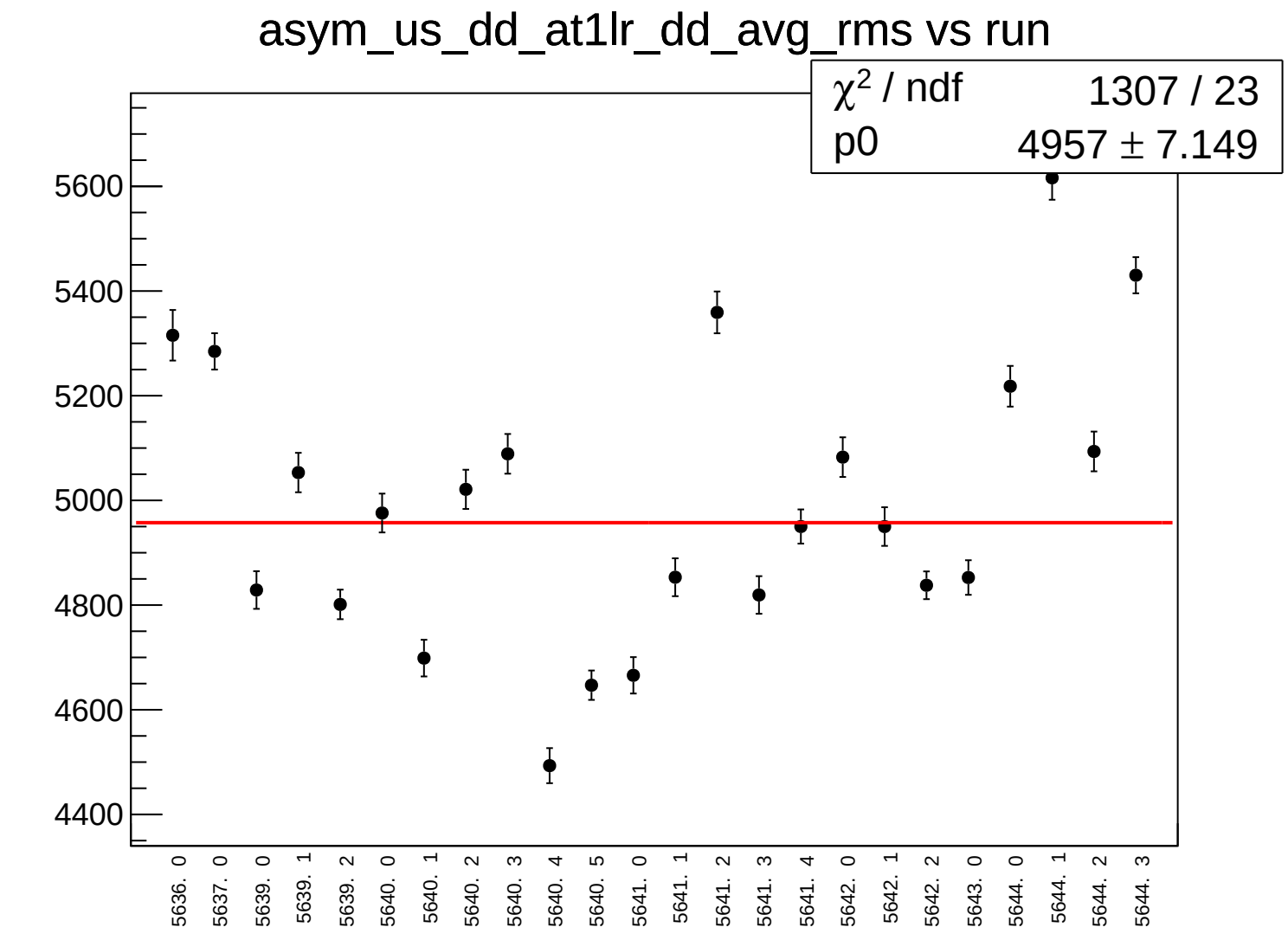
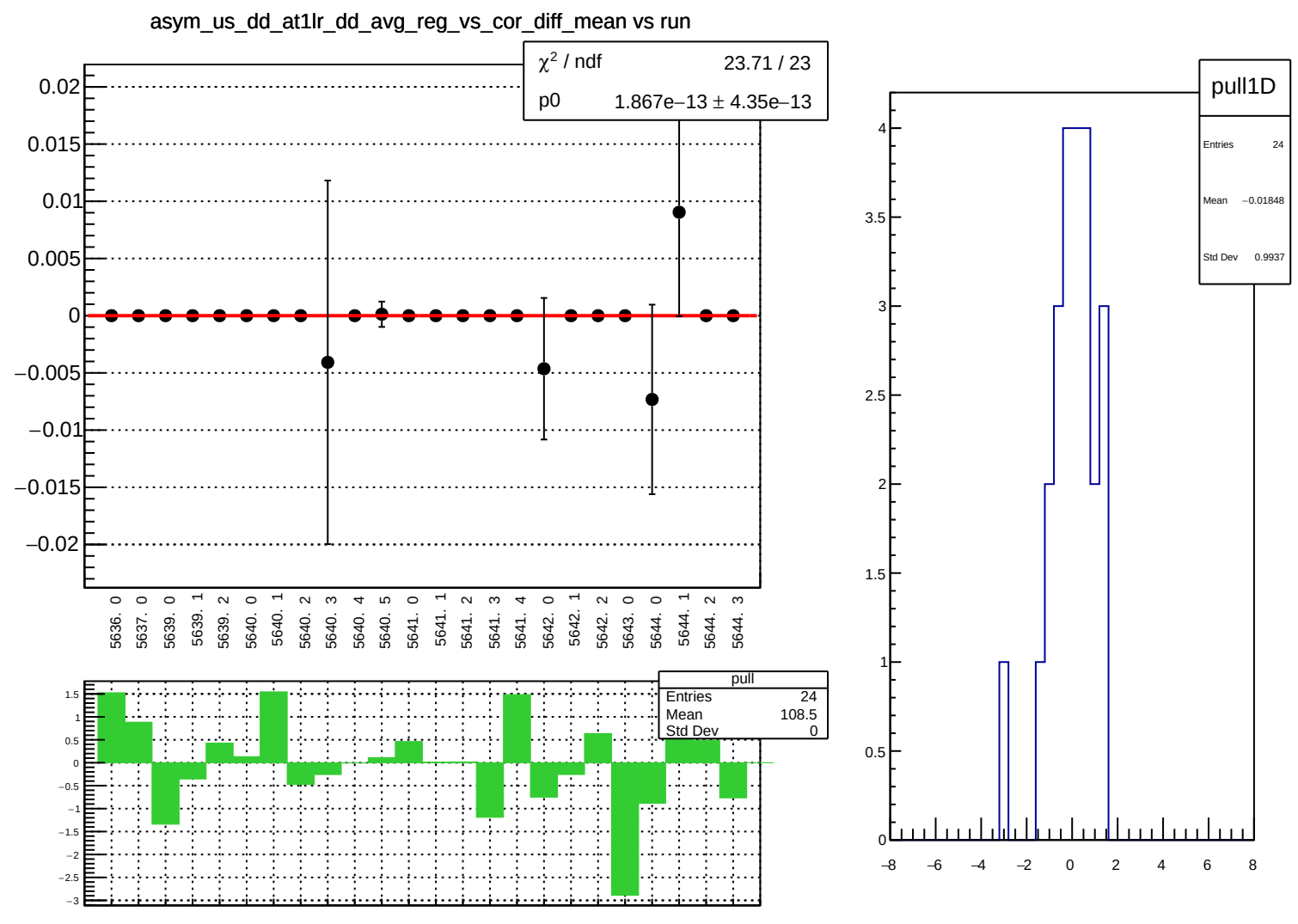
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

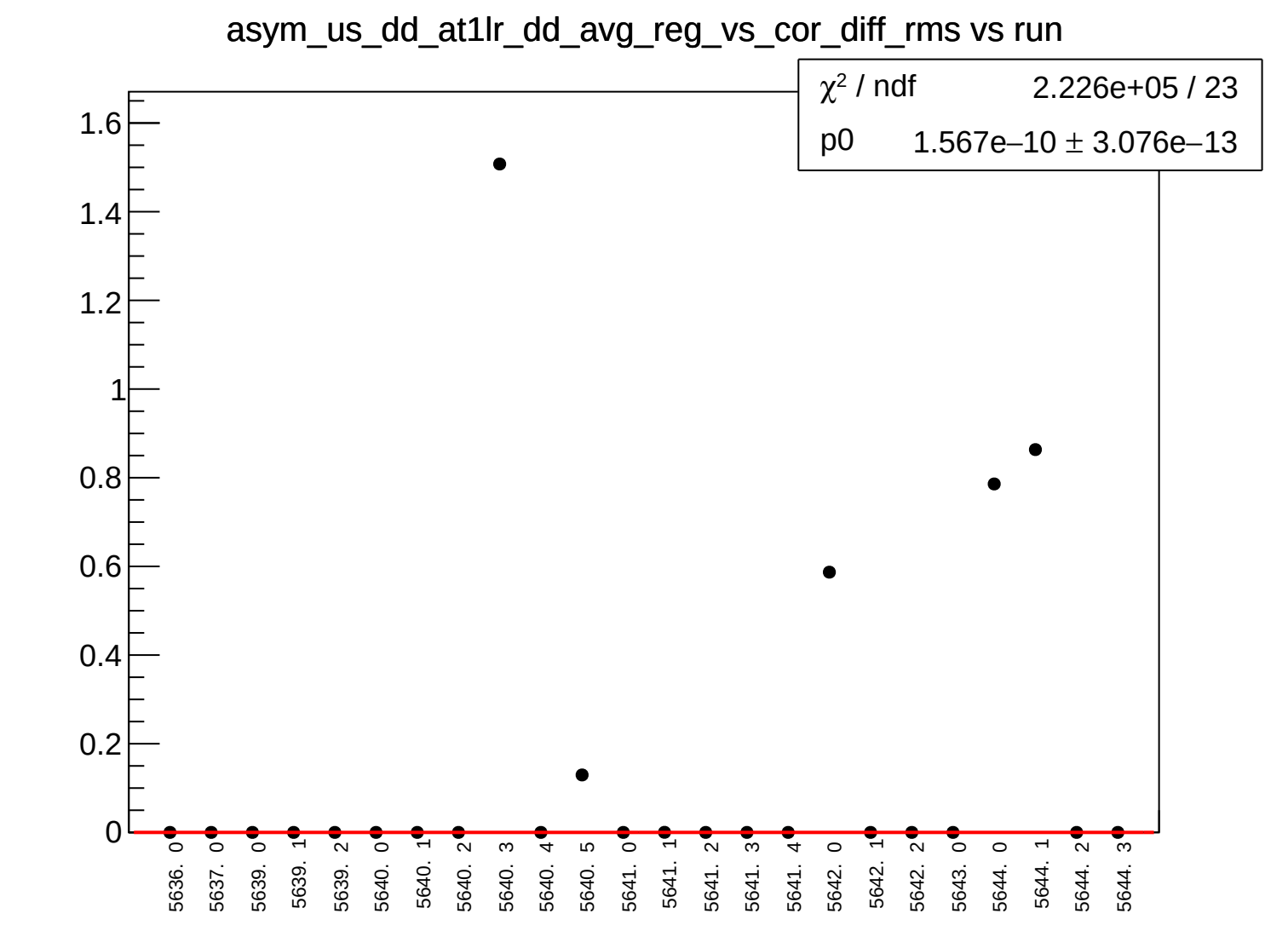

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 19.31 / 23
p0 −6148 ± 8808
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −90.59
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.02394
Std Dev 0.8968
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

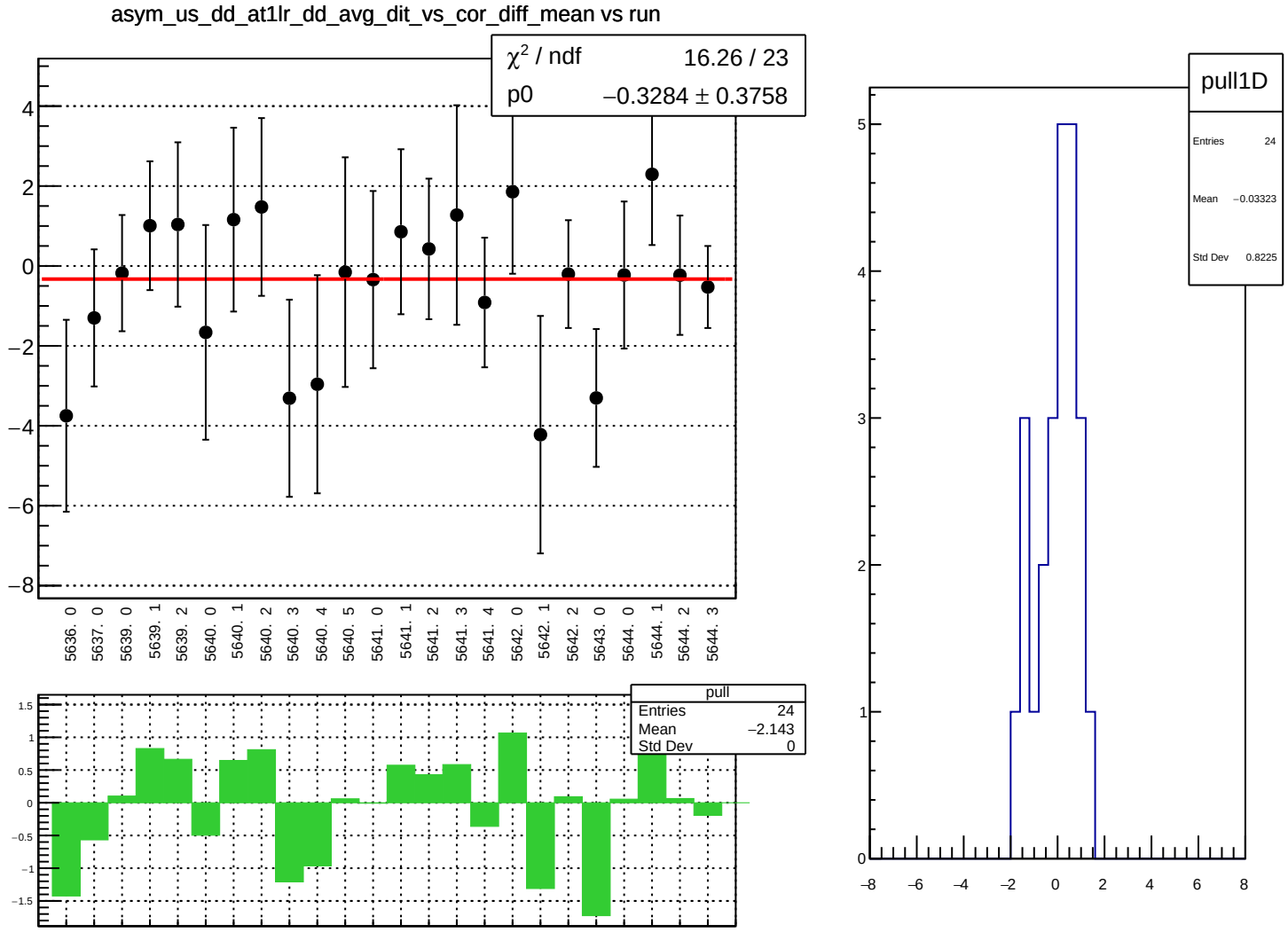

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1560 / 23
p0 4318 ± 6.228
5000
4800
4600
4400
4200
4000
3800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

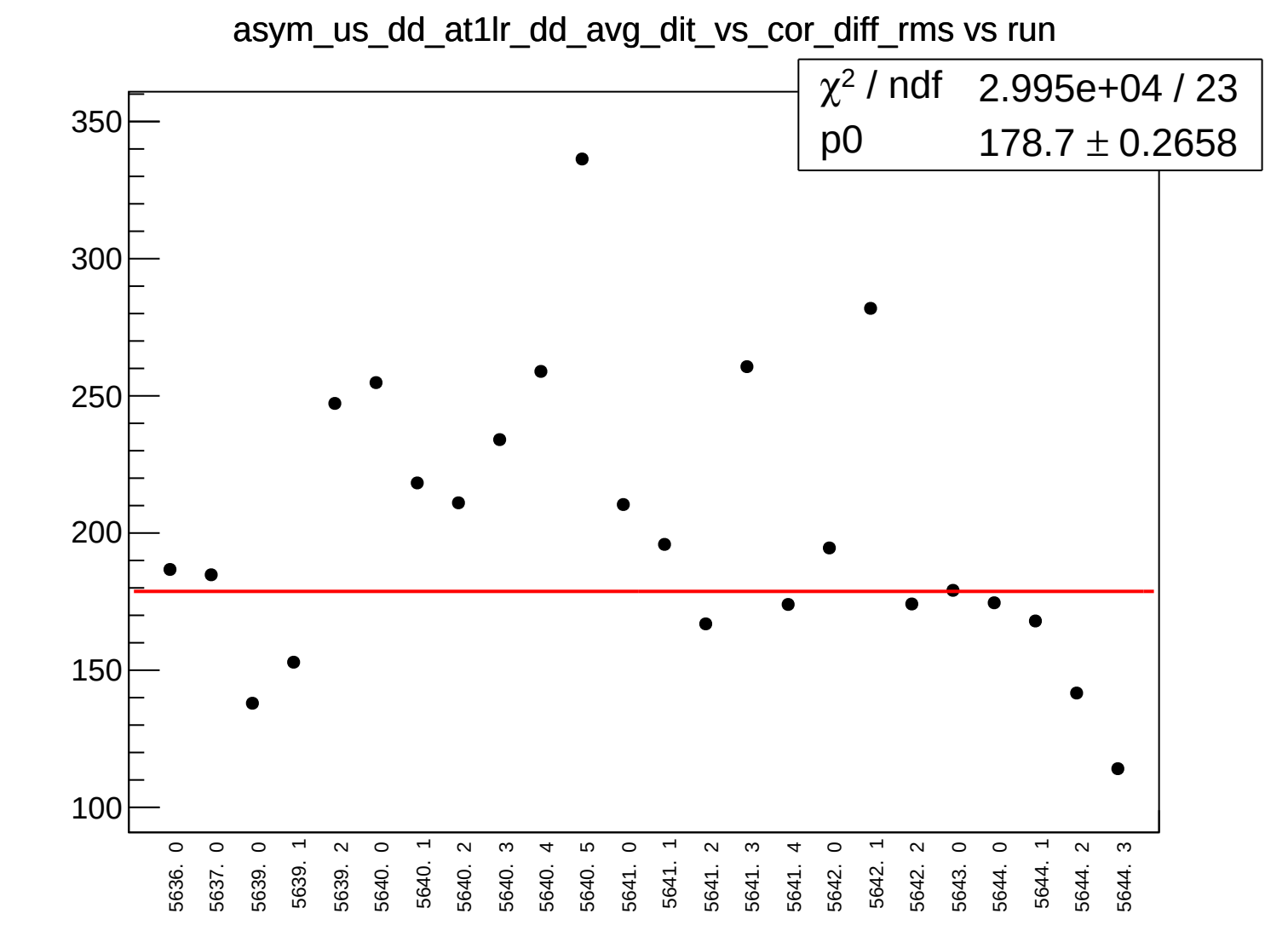

asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 13.76 / 23
p0 5499 ± 1.011e+04
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −515
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.003991
Std Dev 0.7571
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

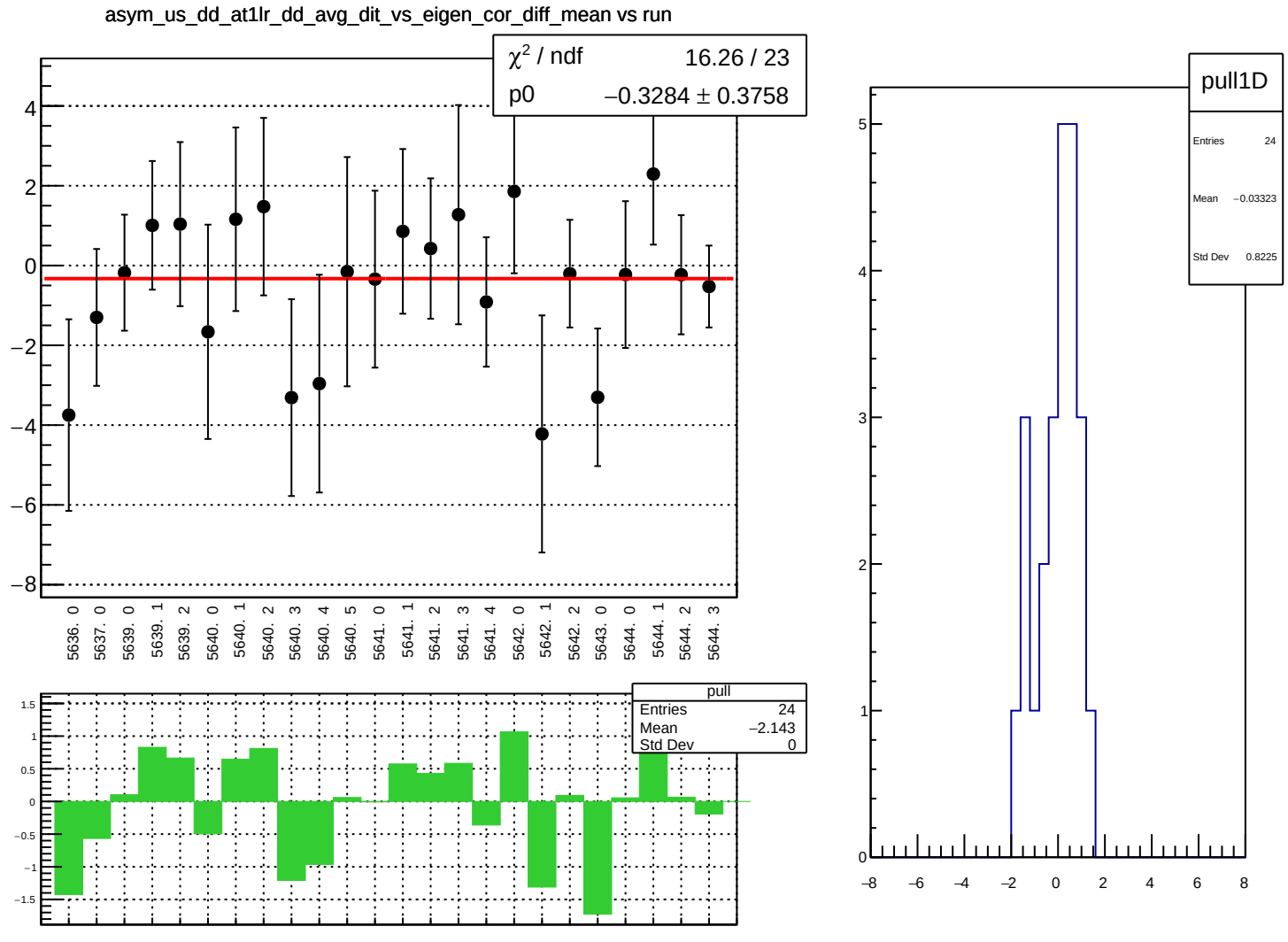

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 1307 / 23
p0 4957 ± 7.149
5600
5400
5200
5000
4800
4600
4400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

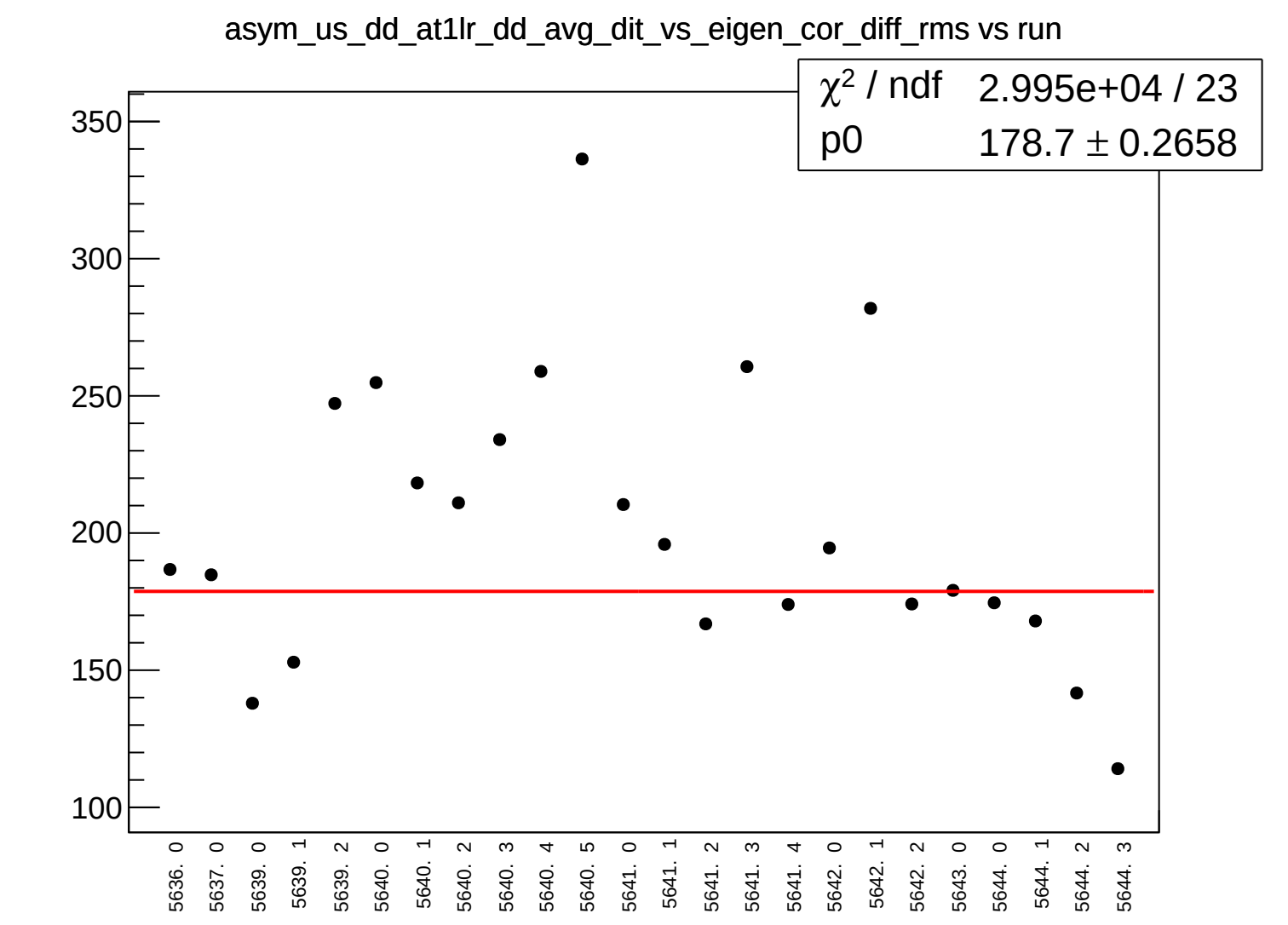

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 23.71 / 23
p0 1.867e−13 ± 4.35e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 108.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 24
Mean −0.01848
Std Dev 0.9937
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

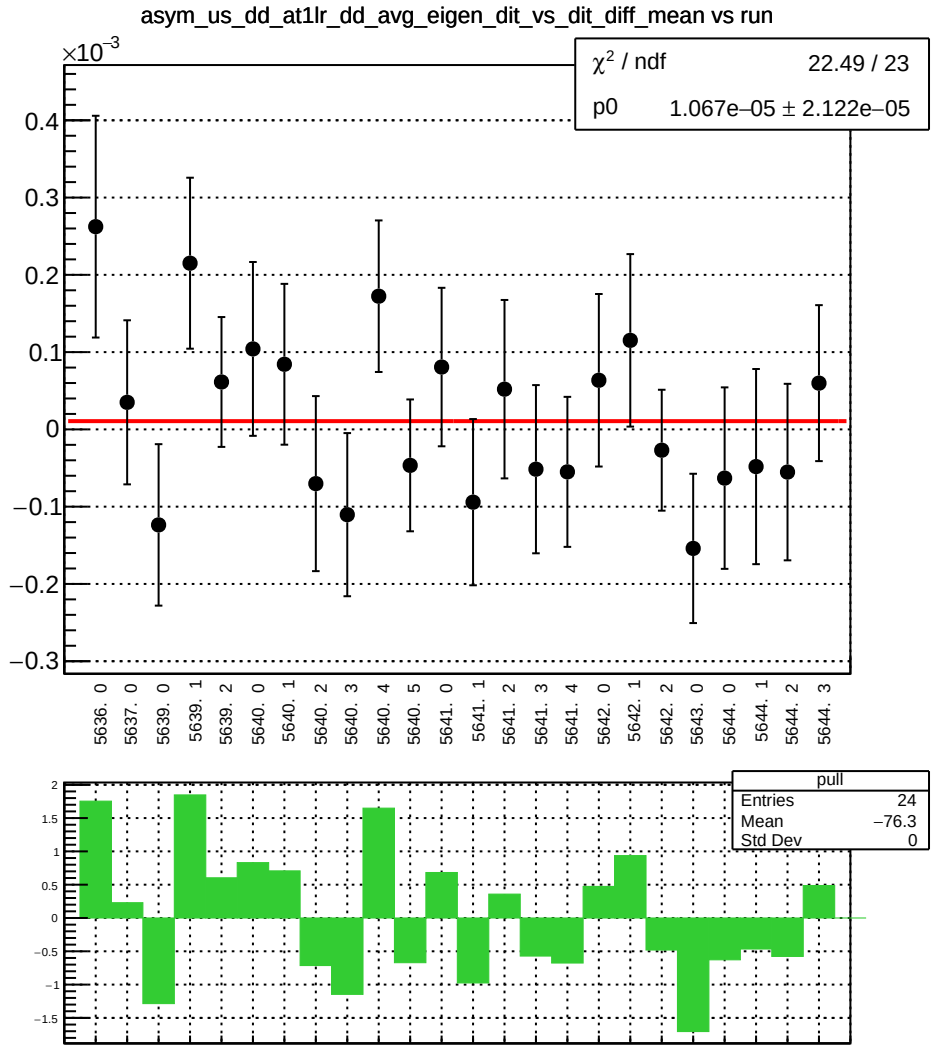

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.226e+05 / 23
p0 1.567e−10 ± 3.076e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

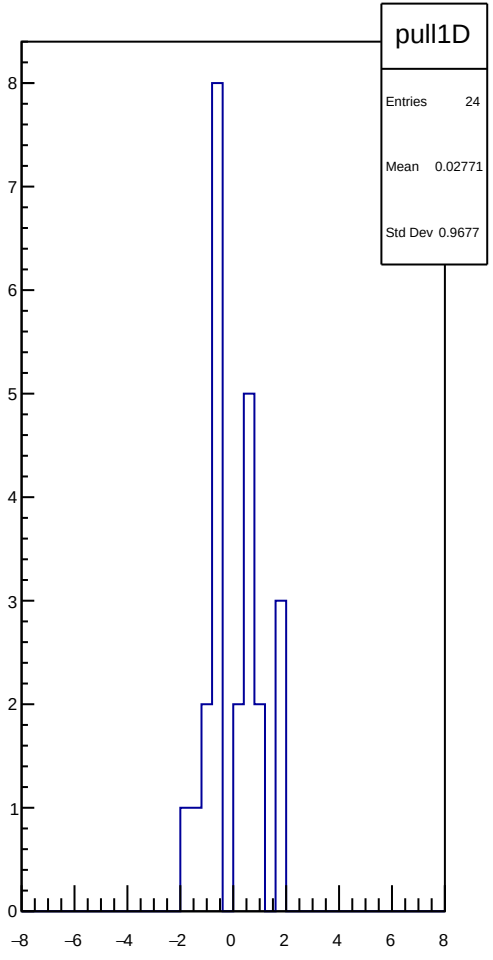

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 16.26 / 23
p0 −0.3284 ± 0.3758
4
2
0
−2
−4
−6
−8
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −2.143
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.03323
Std Dev 0.8225
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

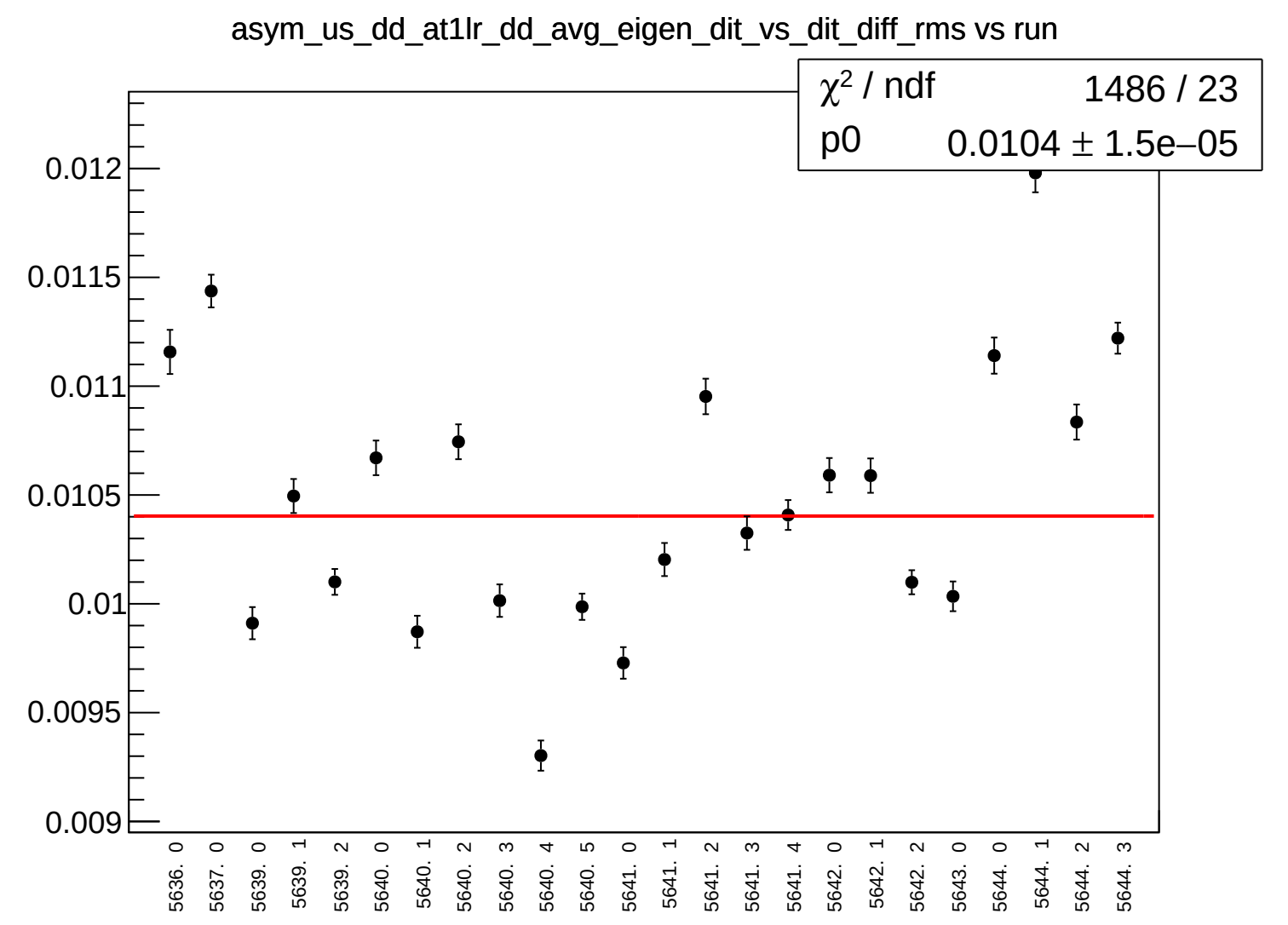

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.995e+04 / 23
p0 178.7 ± 0.2658
350
300
250
200
150
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

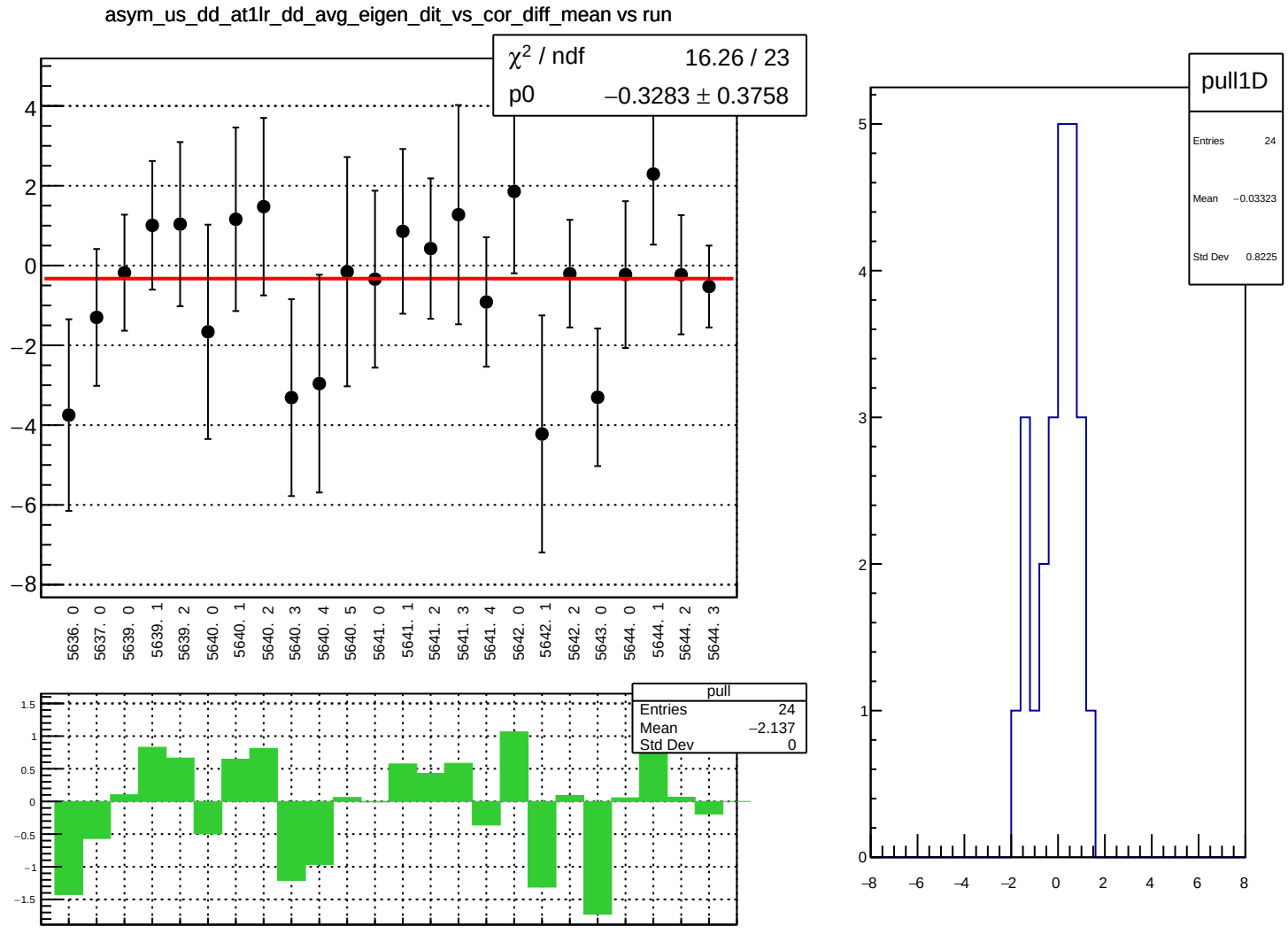

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 16.26 / 23
p0 −0.3284 ± 0.3758
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −2.143
Std Dev 0
pull1D
Entries 24
Mean −0.03323
Std Dev 0.8225

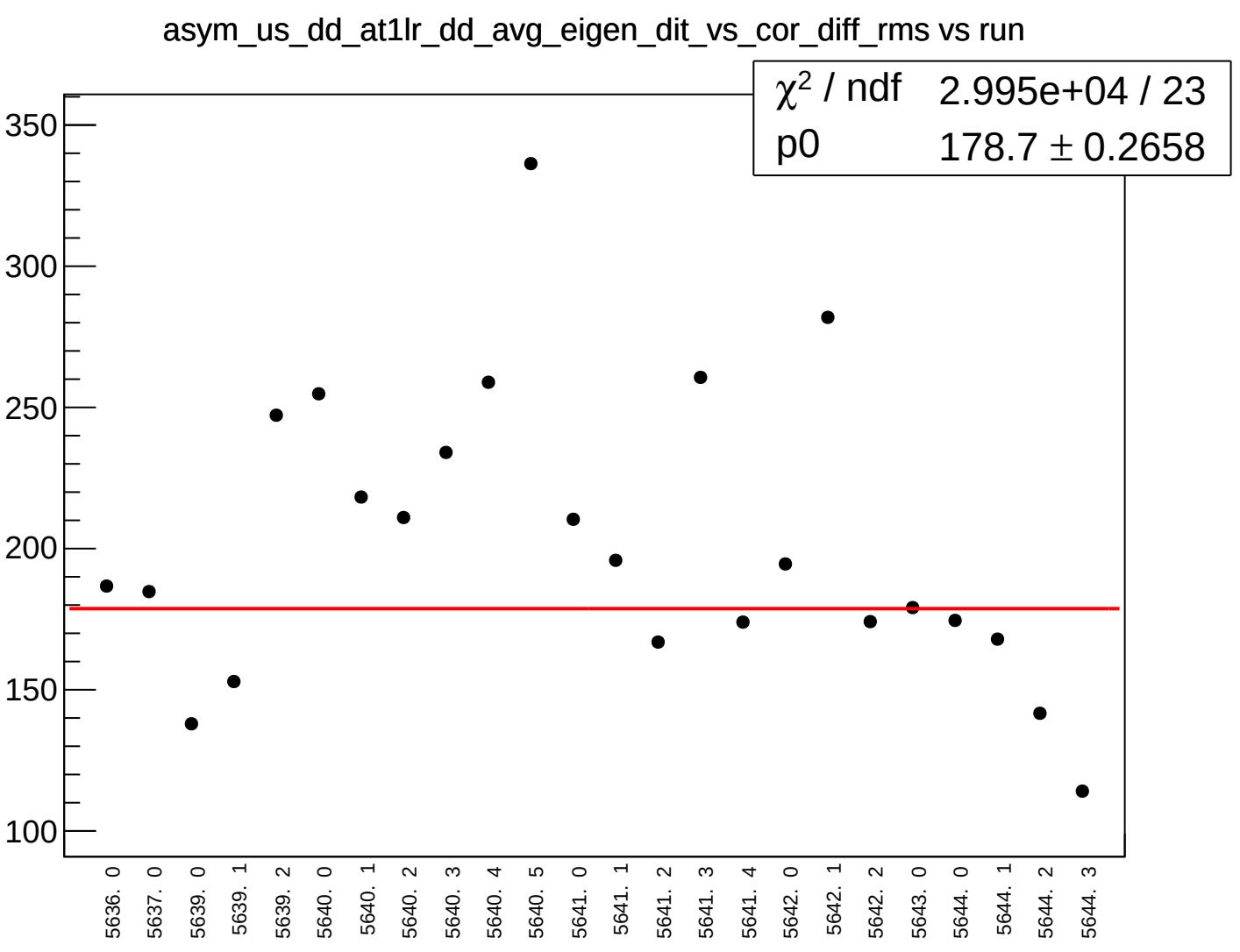

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.995e+04 / 23
p0 178.7 ± 0.2658
350
300
250
200
150
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

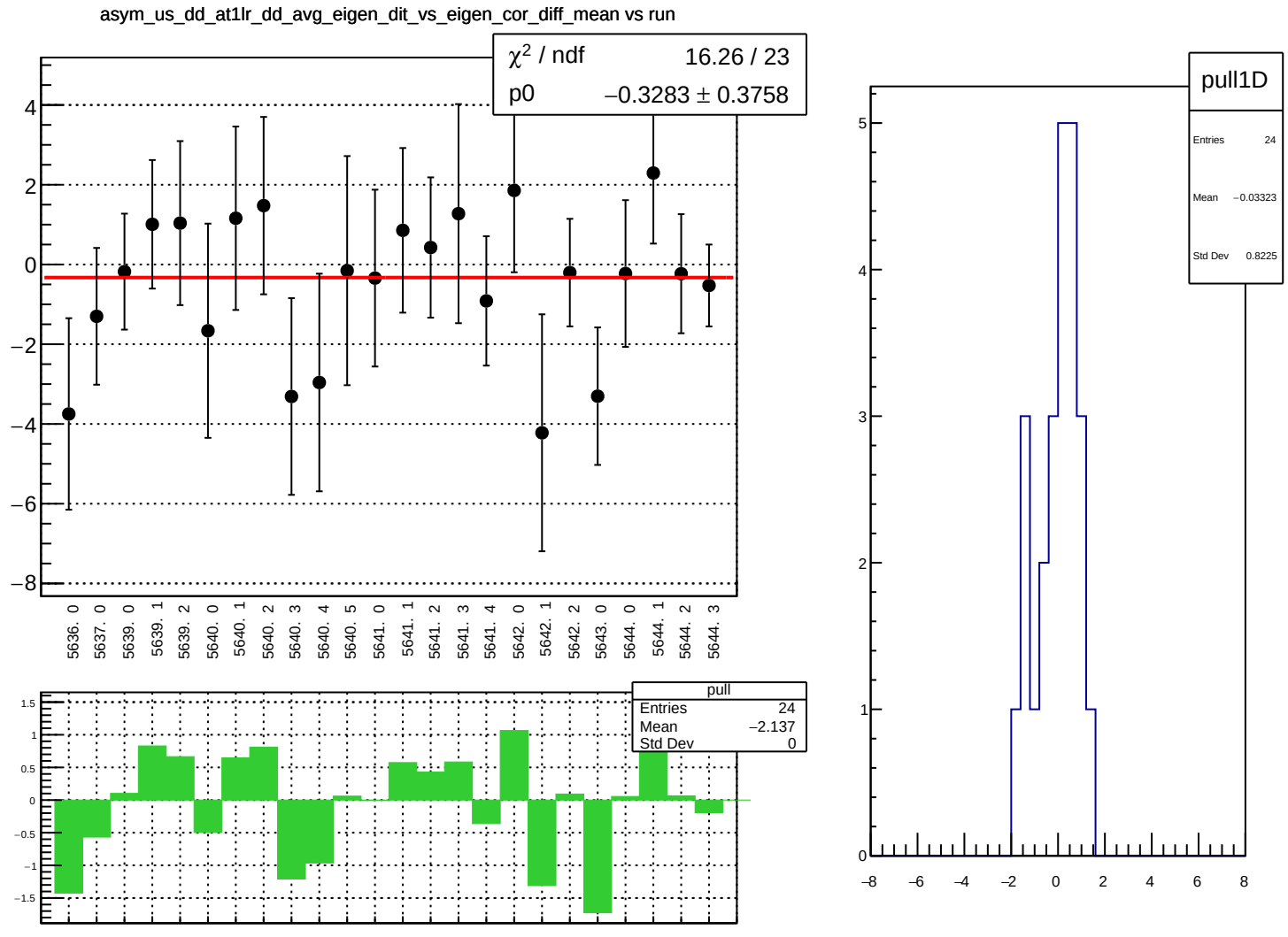

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 22.49 / 23
p0 1.067e−05 ± 2.122e−05
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −76.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

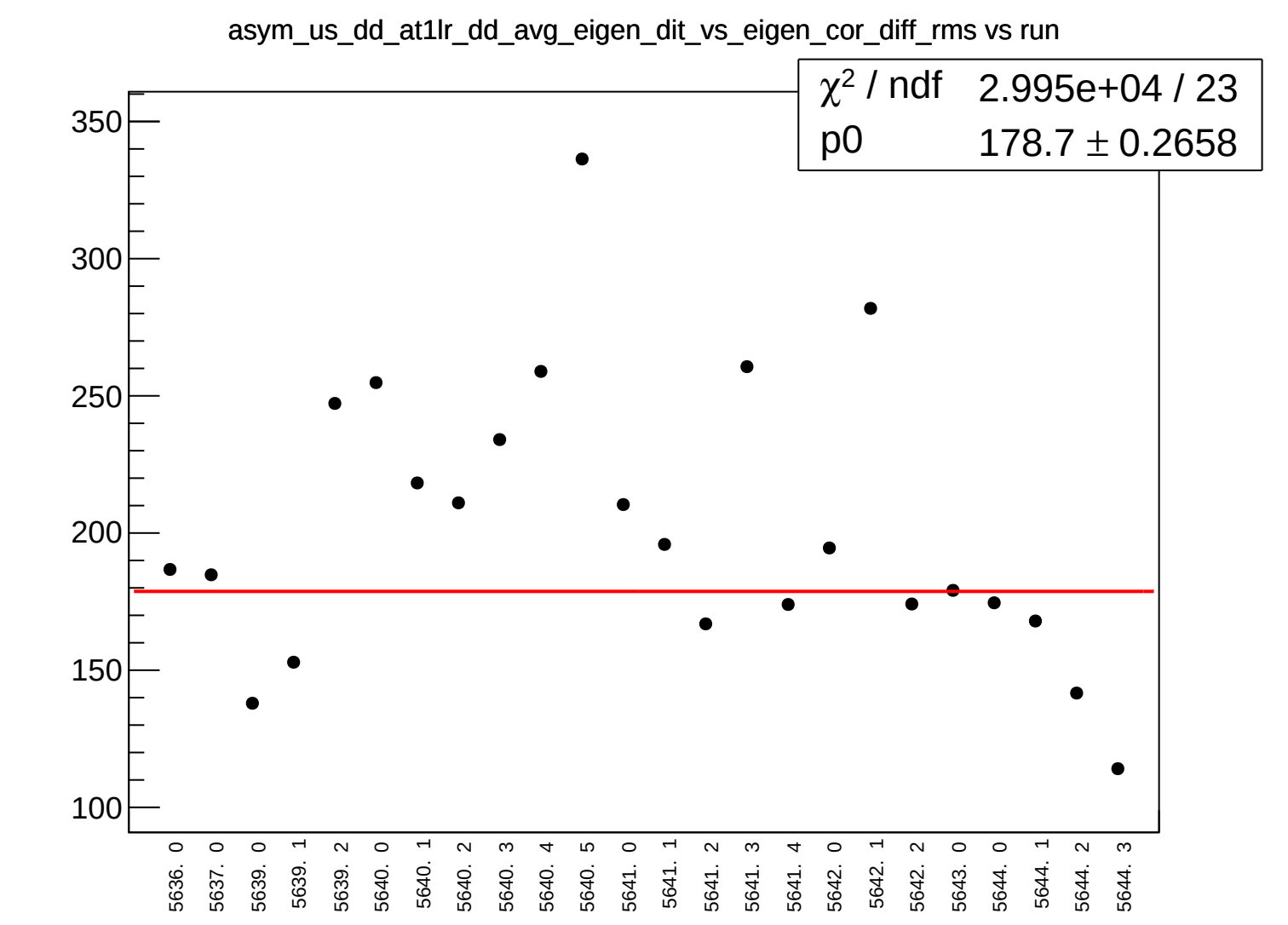

pull1D
Entries 24
Mean 0.02771
Std Dev 0.9677
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

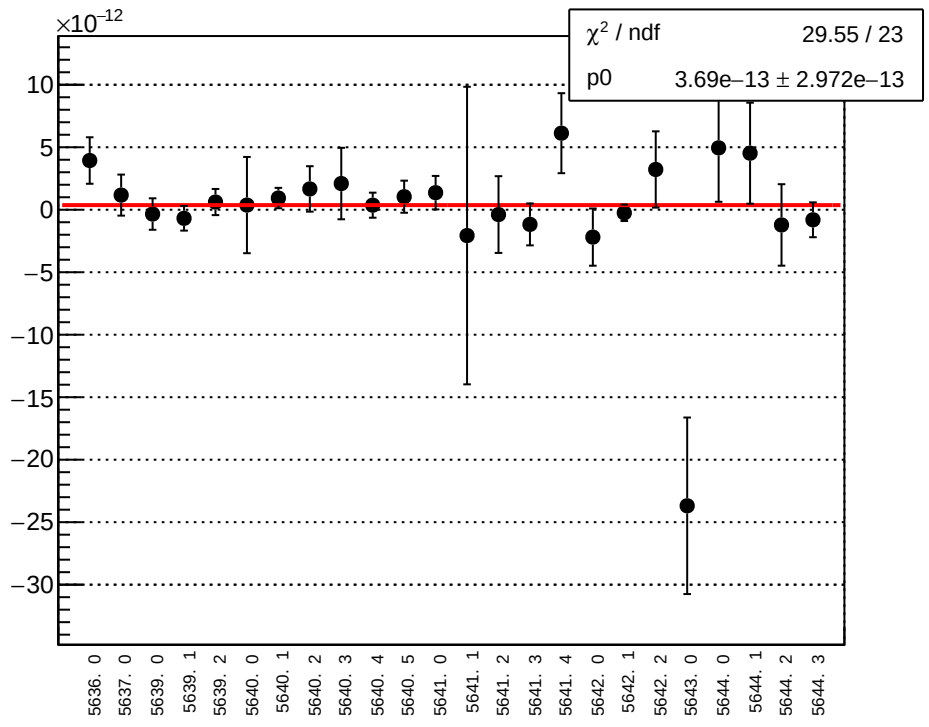

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1486 / 23
p0 0.0104 ± 1.5e−05
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

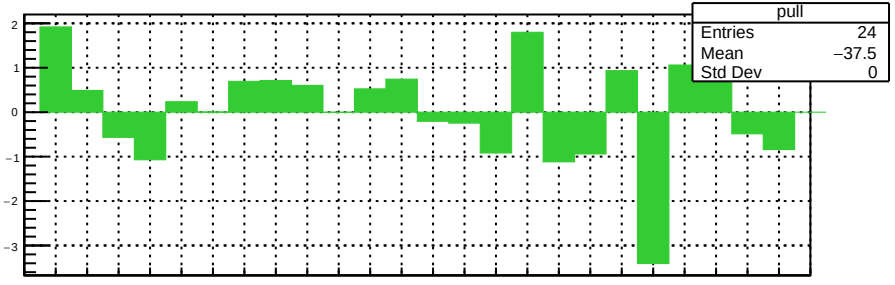

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 16.26 / 23
p0 −0.3283 ± 0.3758
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −2.137
Std Dev 0
pull1D
Entries 24
Mean −0.03323
Std Dev 0.8225

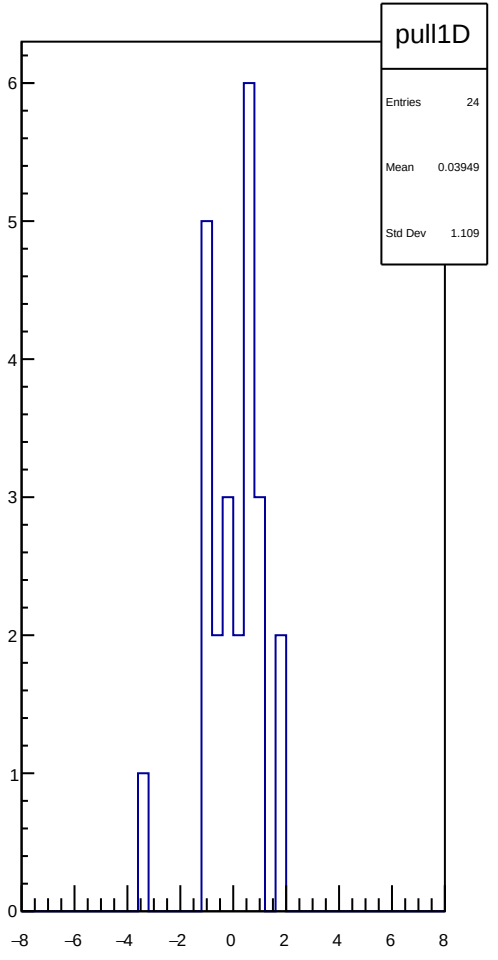

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.995e+04 / 23
p0 178.7 ± 0.2658
350
300
250
200
150
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

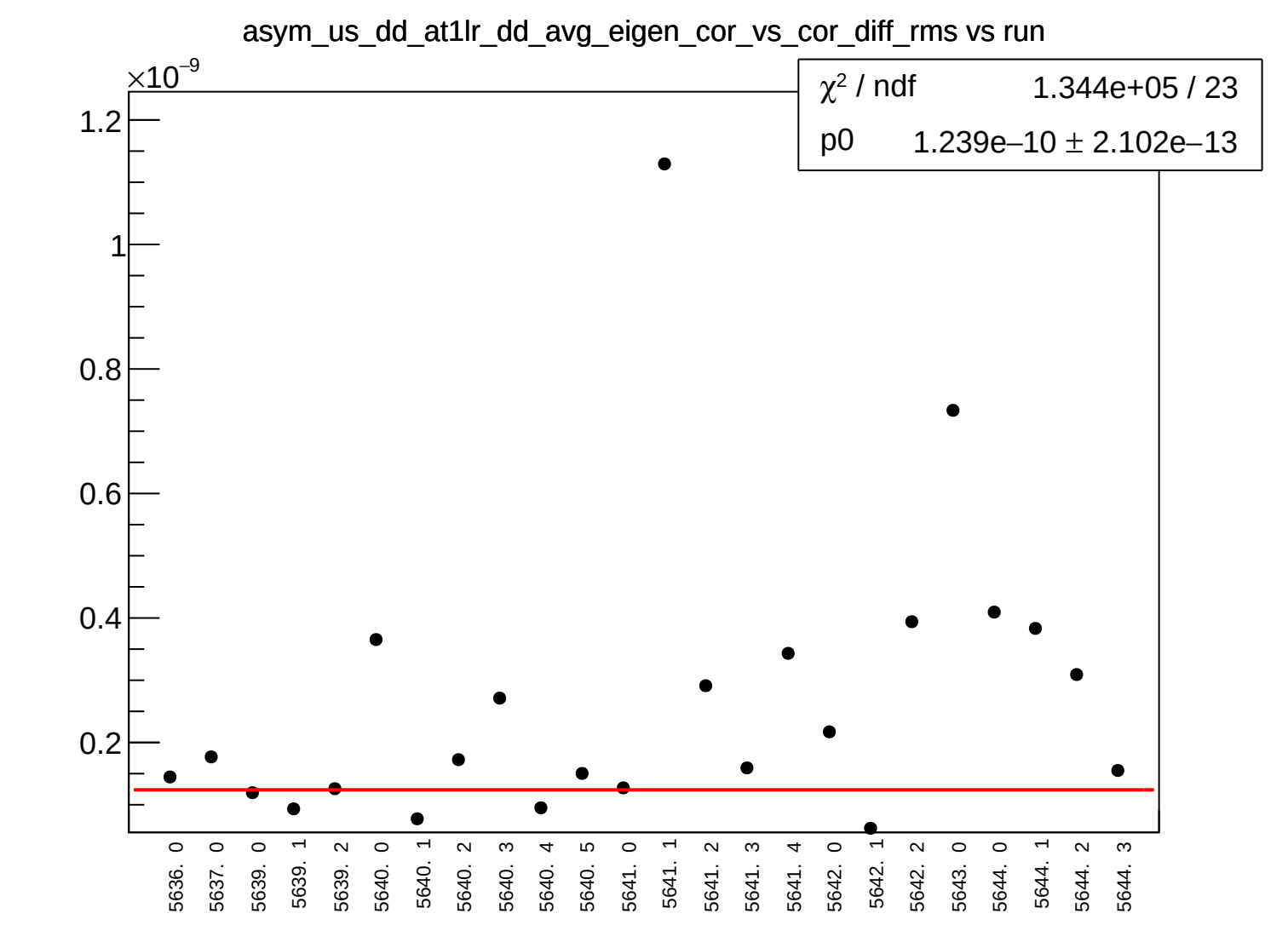

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 16.26 / 23
p0 −0.3283 ± 0.3758
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −2.137
Std Dev 0
pull1D
Entries 24
Mean −0.03323
Std Dev 0.8225

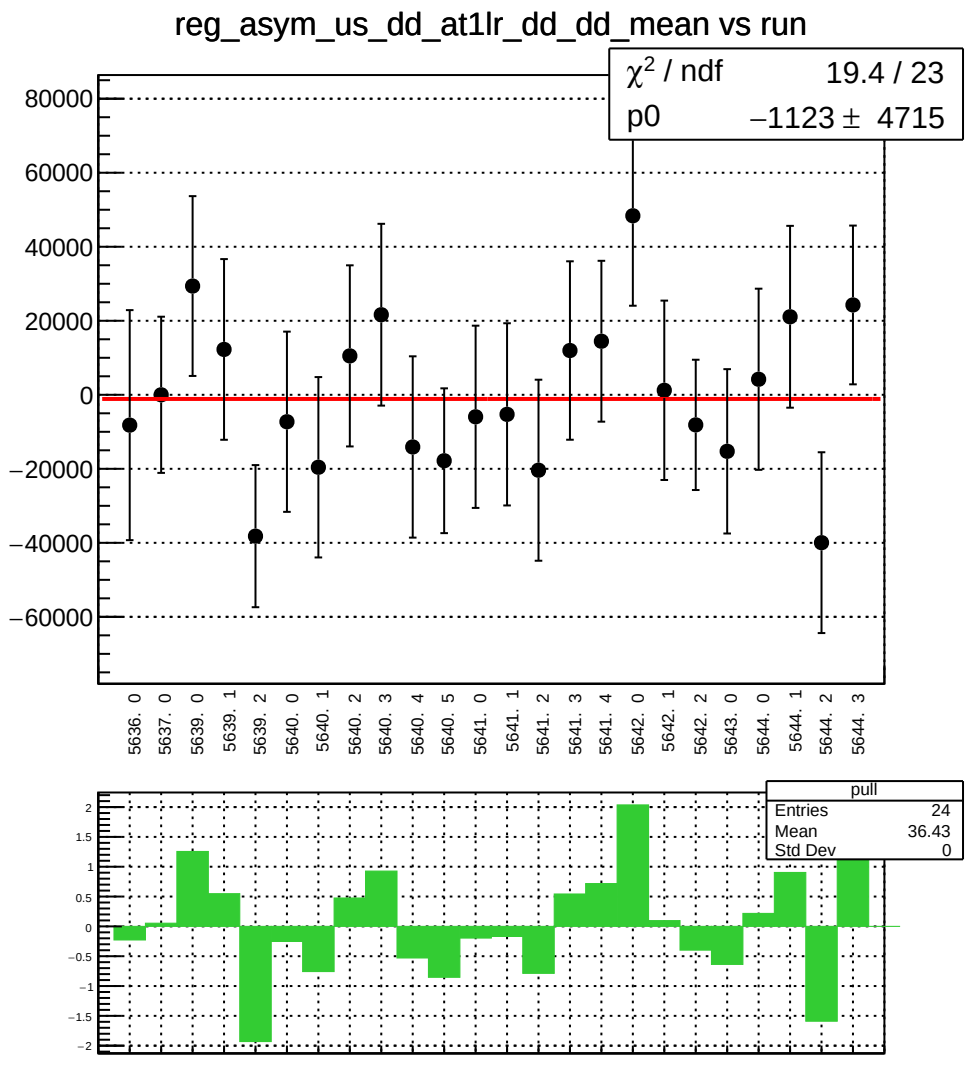

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.995e+04 / 23
p0 178.7 ± 0.2658
350
300
250
200
150
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

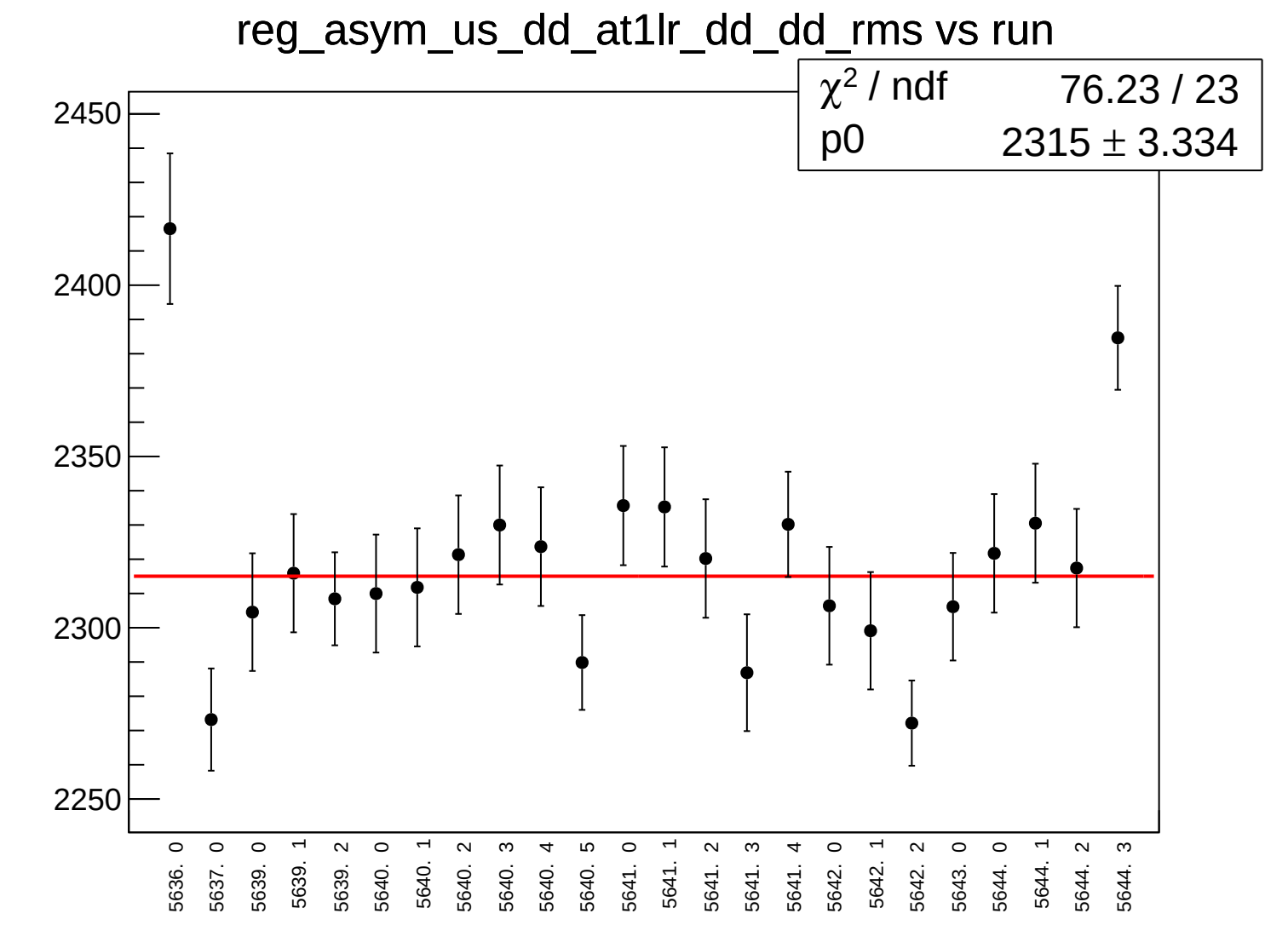

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 29.55 / 23
p0 3.69e−13 ± 2.972e−13
10
5
0
−5
−10
−15
−20
−25
−30
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

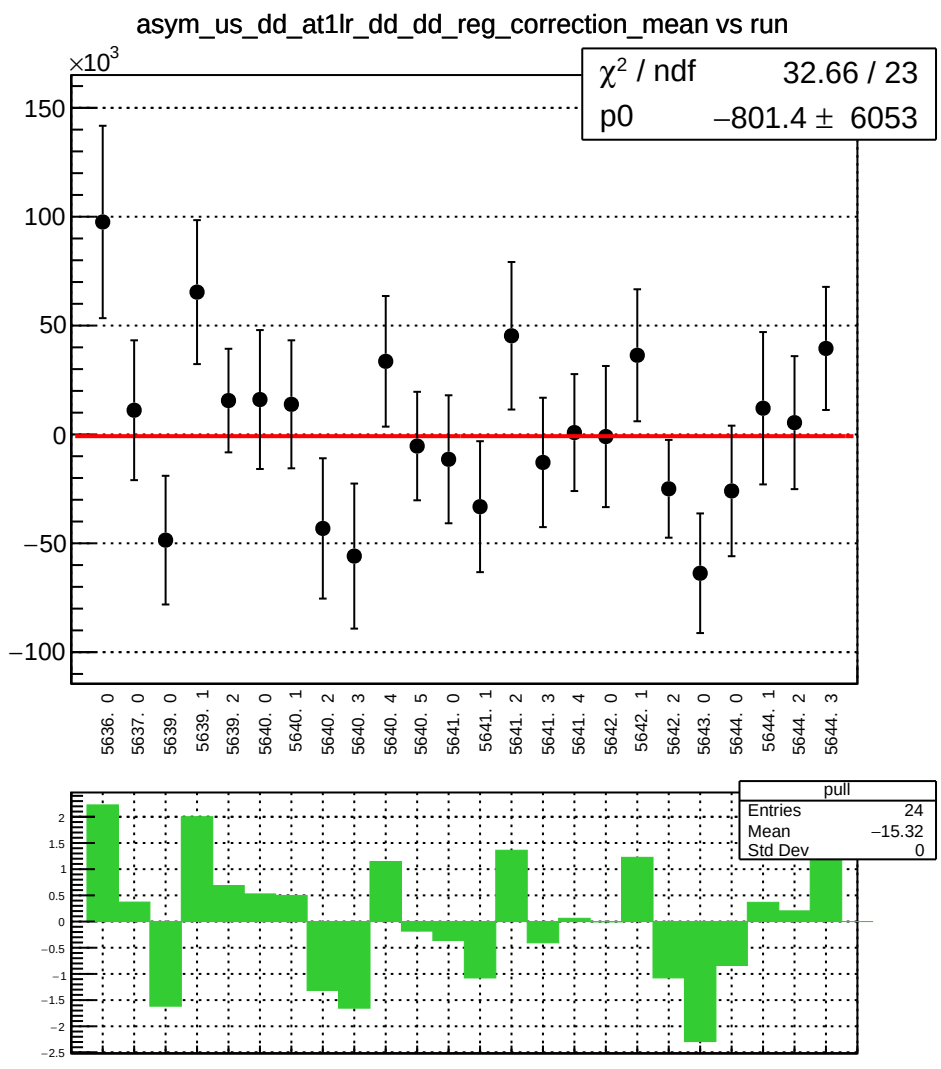

pull
Entries 24
Mean −37.5
Std Dev 0
2
1
0
−1
−2
−3

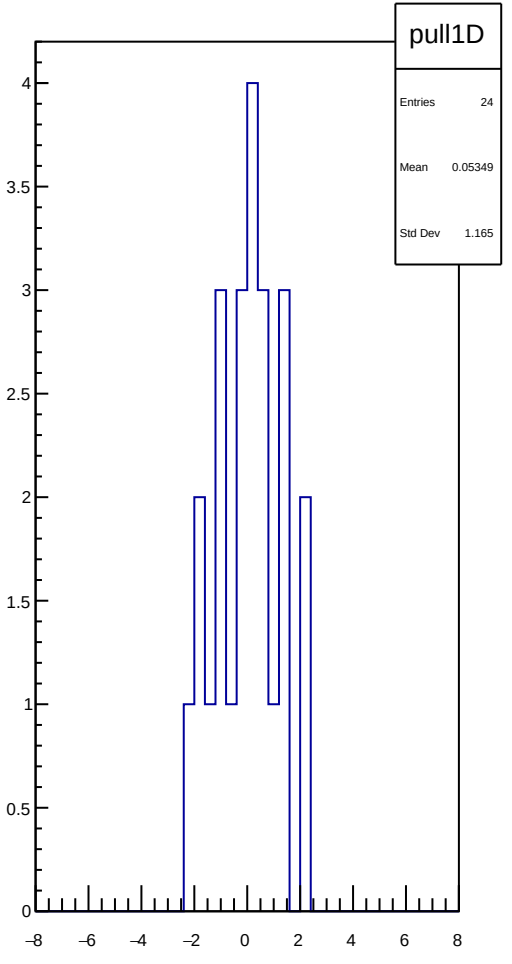

pull1D
Entries 24
Mean 0.03949
Std Dev 1.109
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

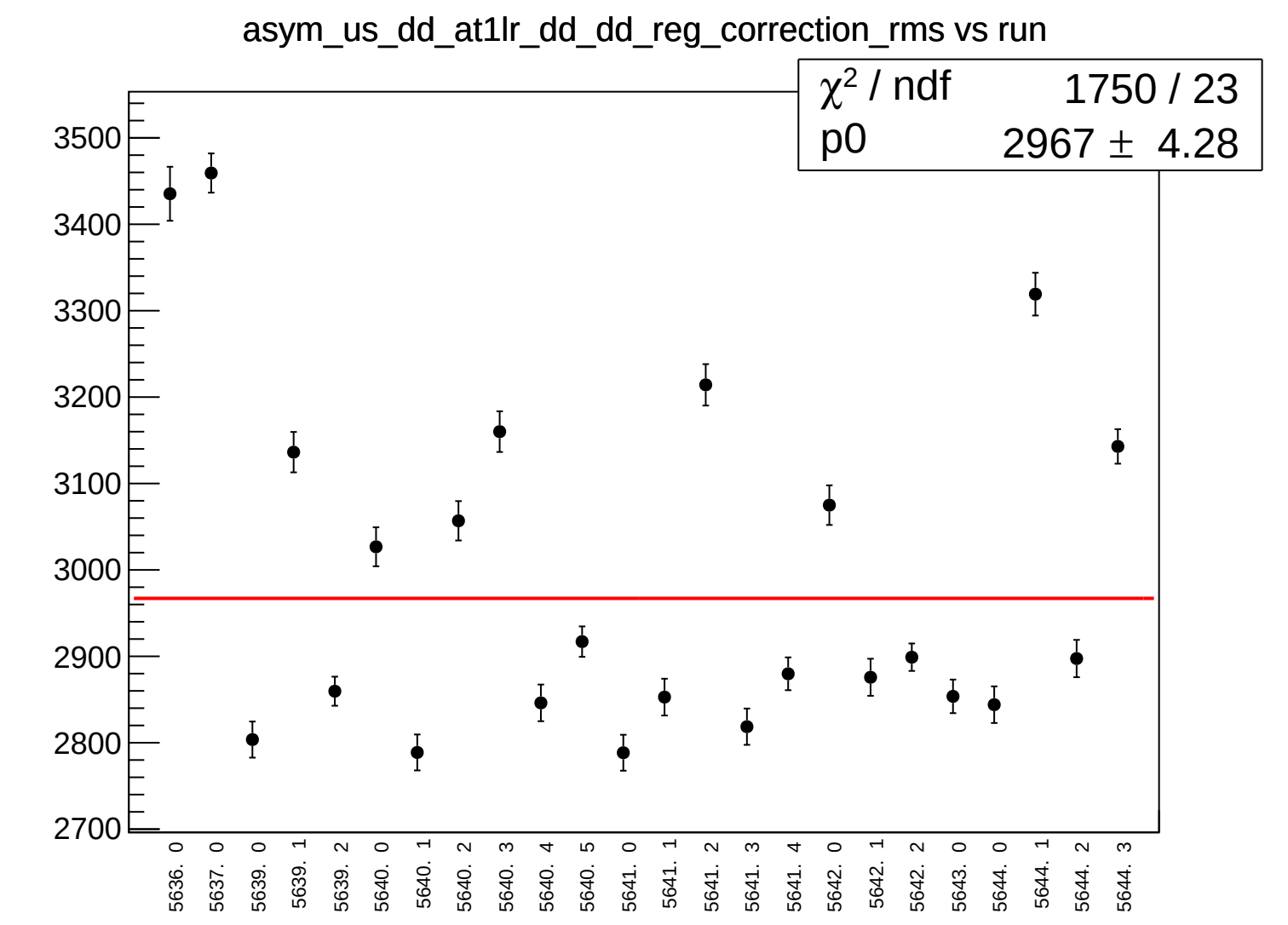

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.344e+05 / 23
p0 1.239e−10 ± 2.102e−13
1.2
1
0.8
0.6
0.4
0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

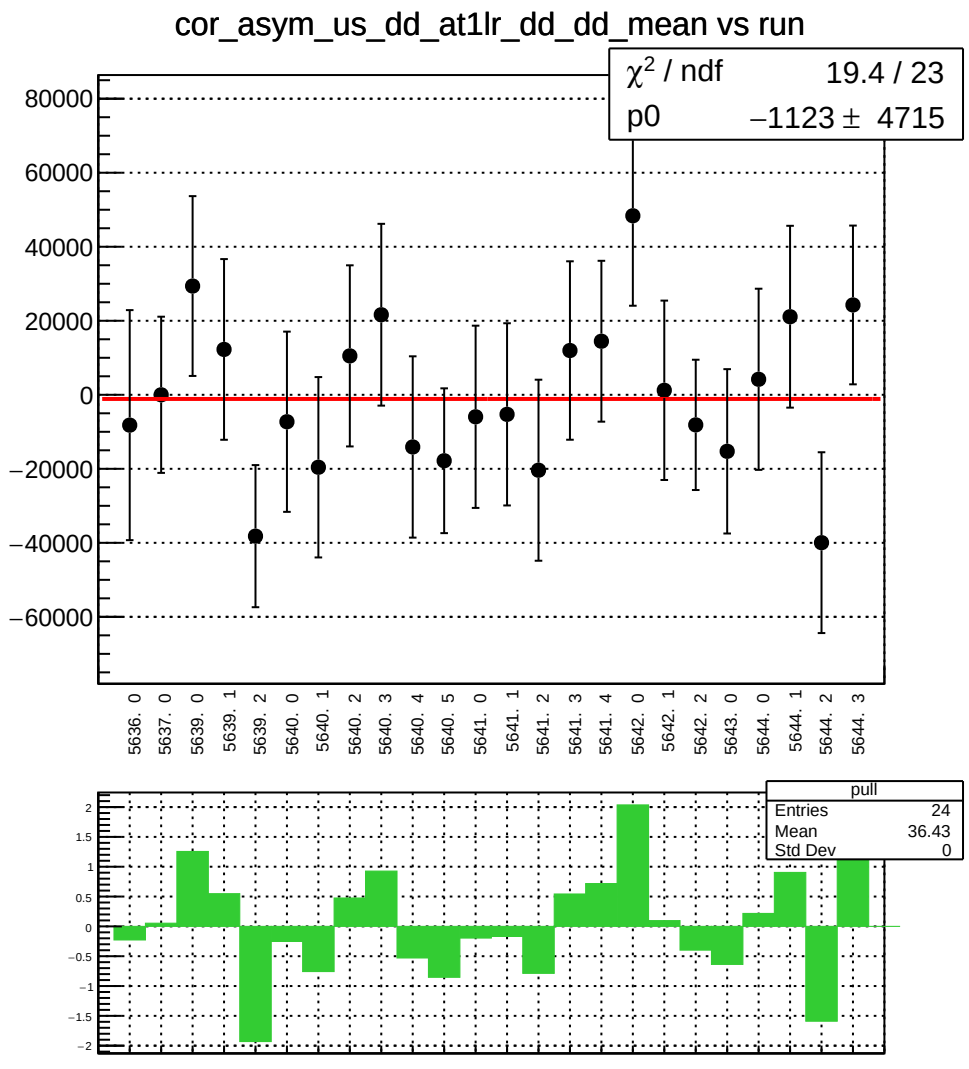

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 19.4 / 23
p0 −1123 ± 4715
80000
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 36.43
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.02622
Std Dev 0.8987
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

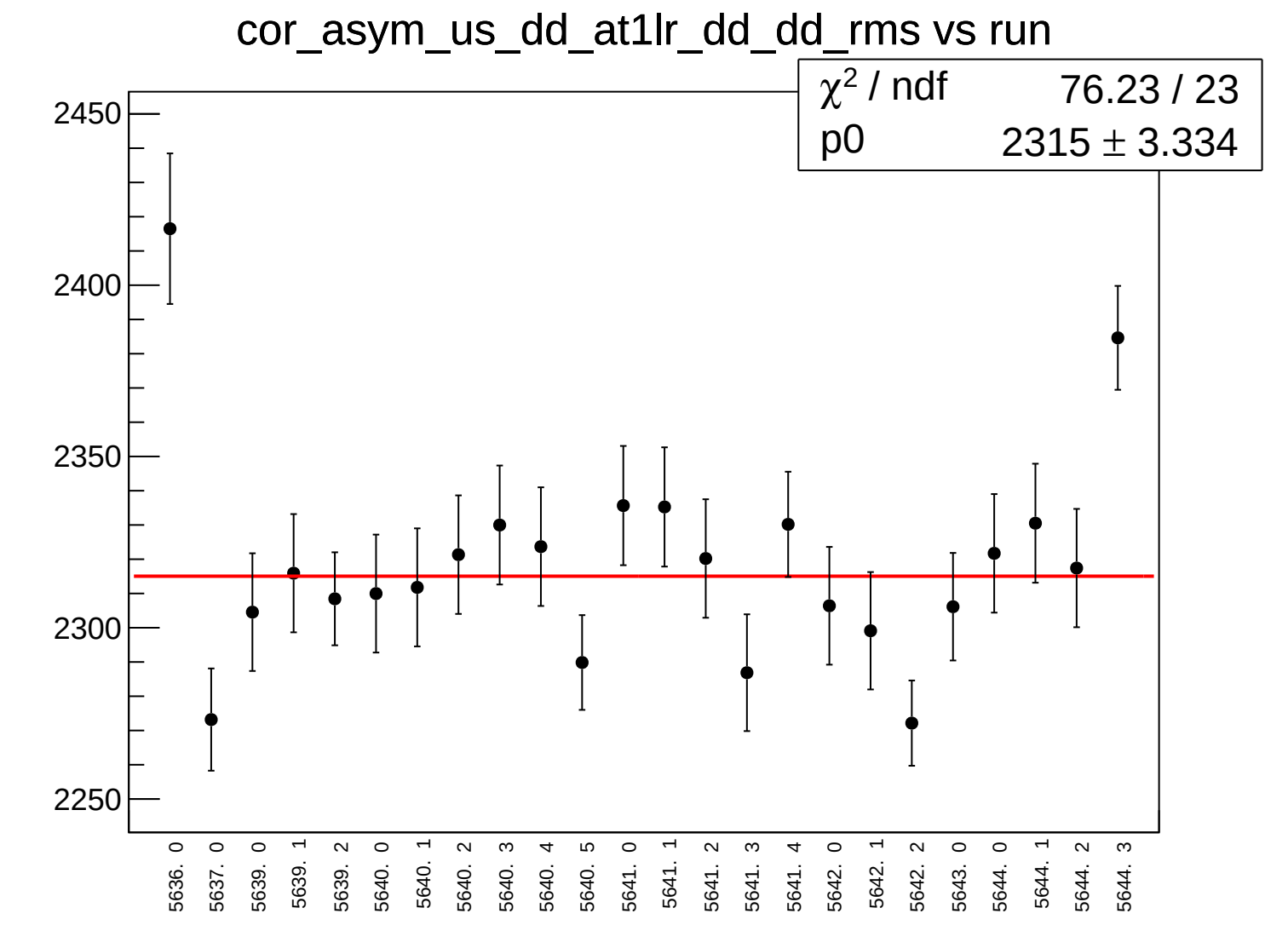

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 76.23 / 23
p0 2315 ± 3.334
2450
2400
2350
2300
2250
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

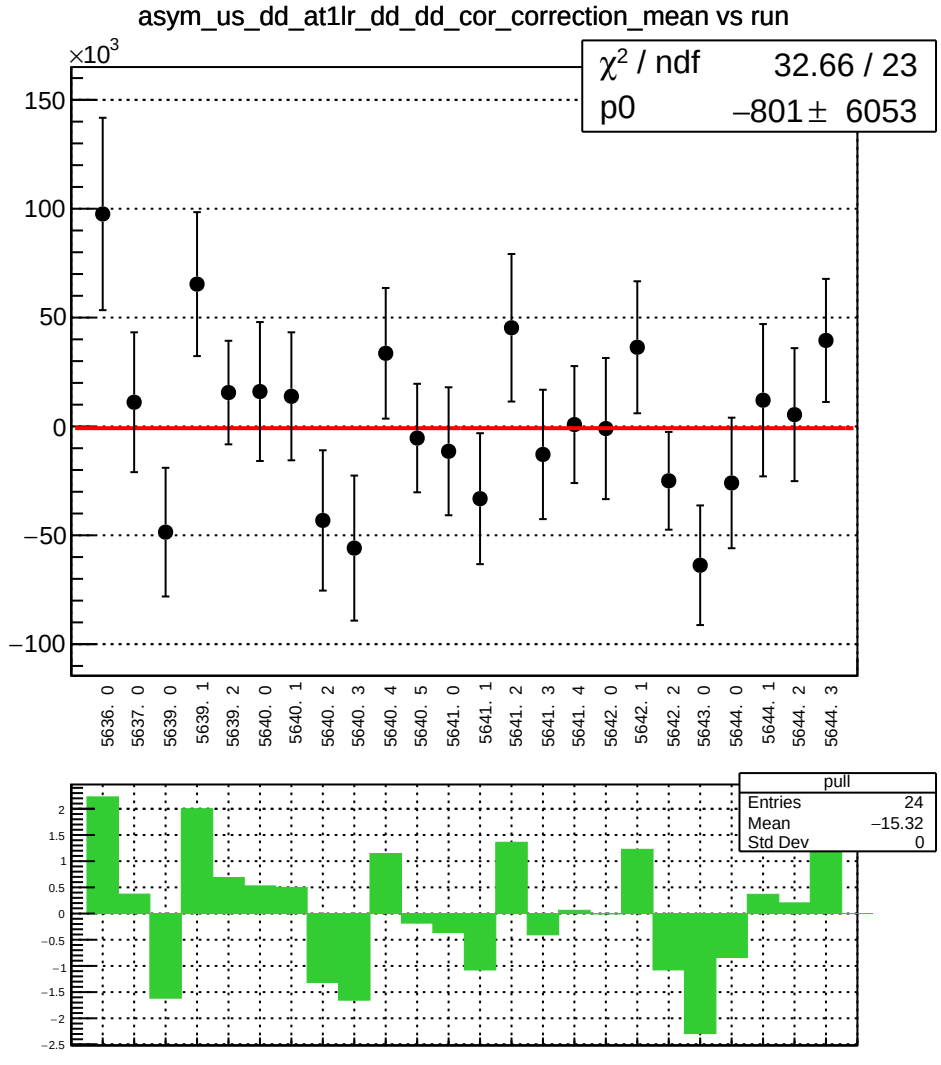

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 32.66 / 23
p0 −801.4 ± 6053
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −15.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

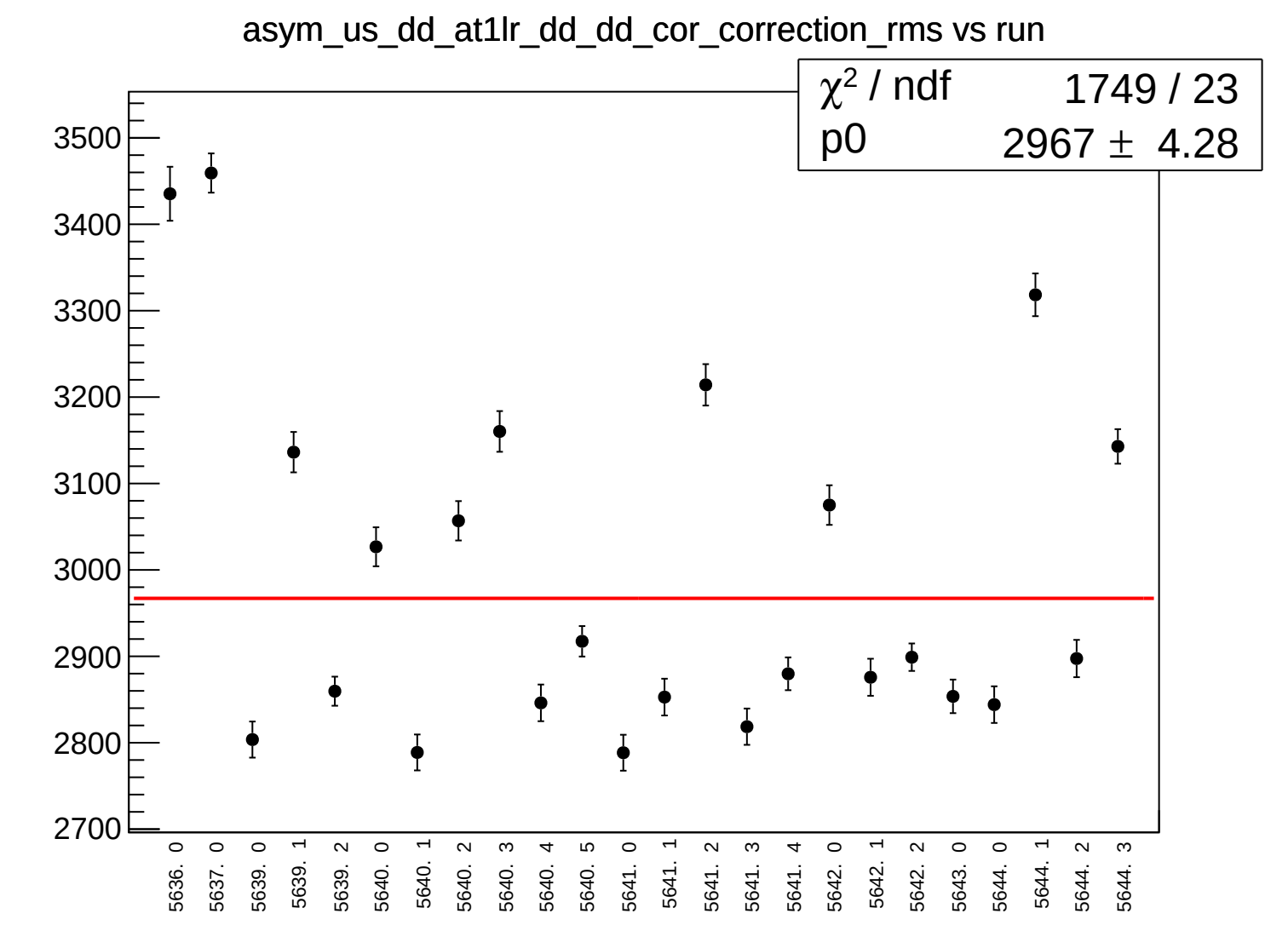

pull1D
Entries 24
Mean 0.05349
Std Dev 1.165
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

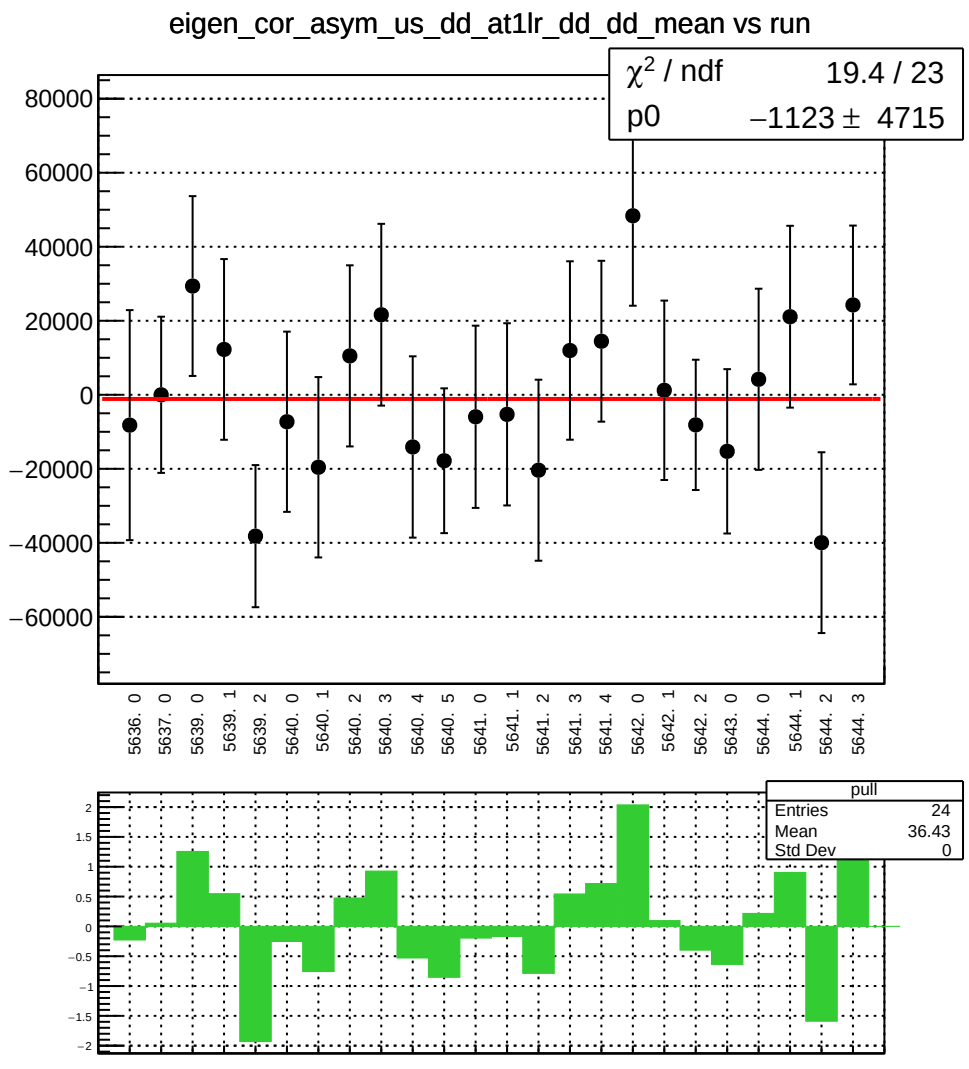

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 1750 / 23
p0 2967 ± 4.28
3500
3400
3300
3200
3100
3000
2900
2800
2700
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

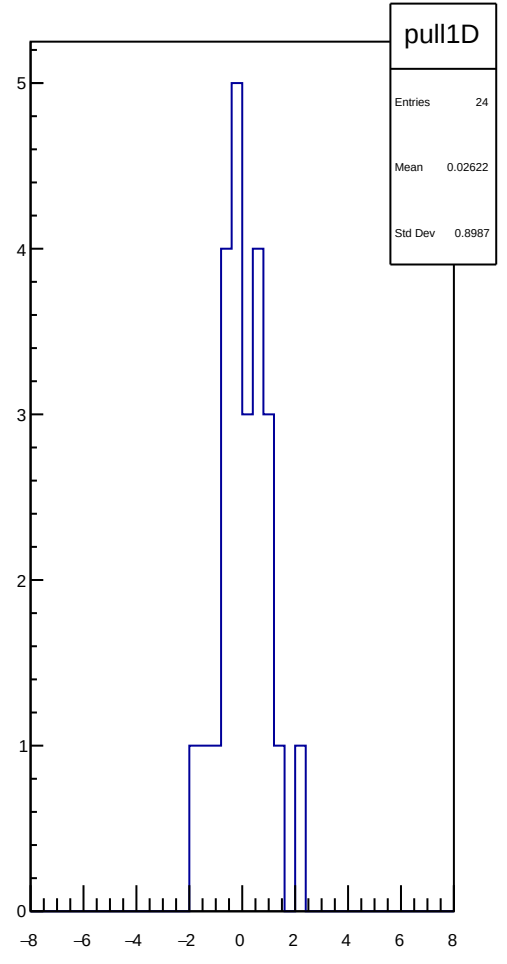

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 19.4 / 23
p0 −1123 ± 4715
80000
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 36.43
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.02622
Std Dev 0.8987
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

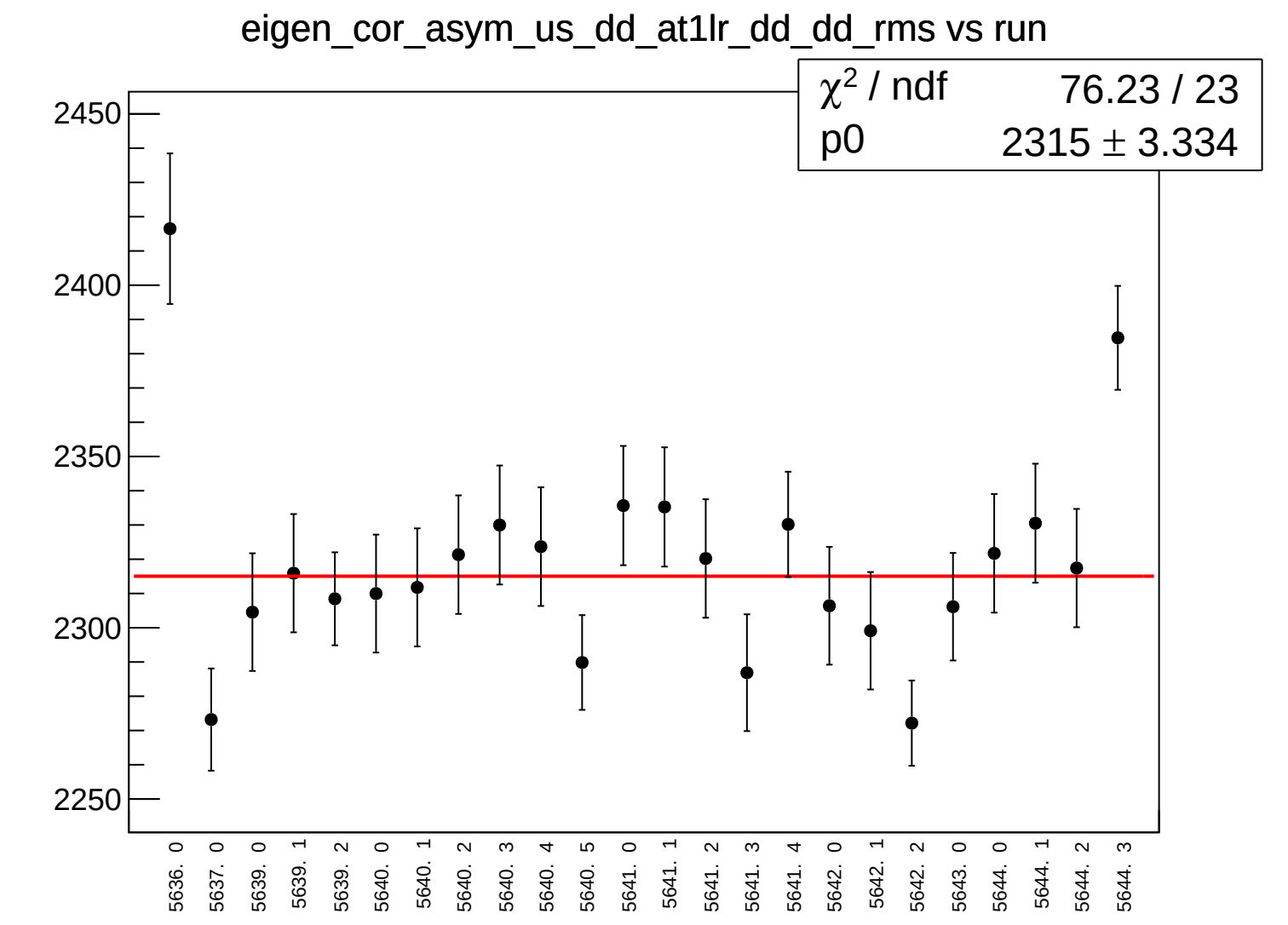

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 76.23 / 23
p0 2315 ± 3.334
2450
2400
2350
2300
2250
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

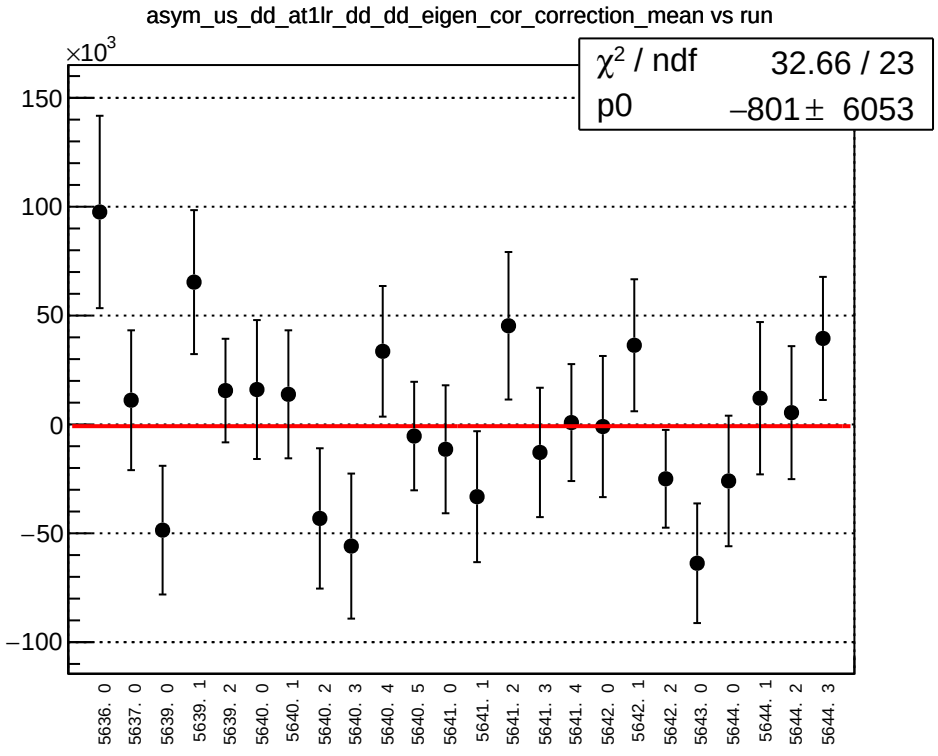

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 32.66 / 23
p0 −801 ± 6053
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −15.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean 0.05349
Std Dev 1.165
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

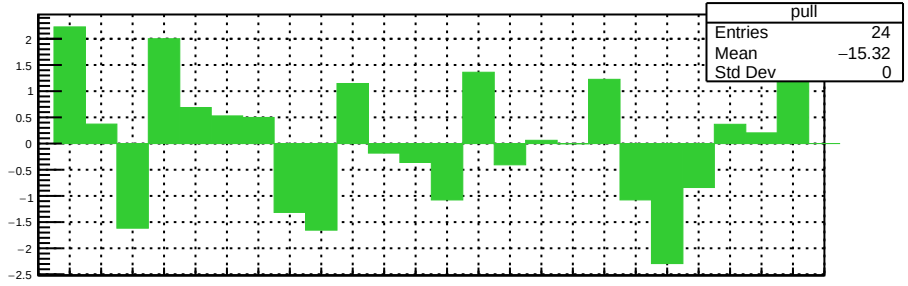

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 1749 / 23
p0 2967 ± 4.28
3500
3400
3300
3200
3100
3000
2900
2800
2700
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

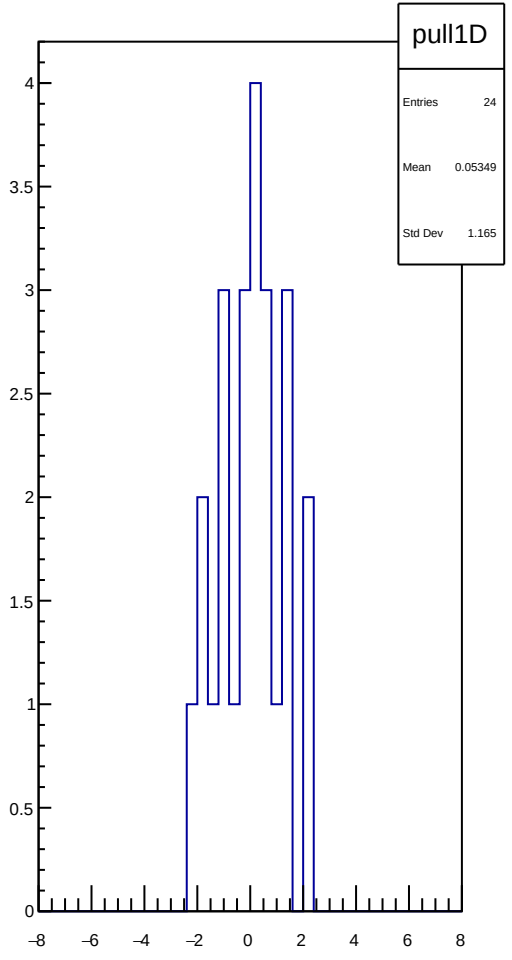

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 19.4 / 23
p0 −1123 ± 4715
80000
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 36.43
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

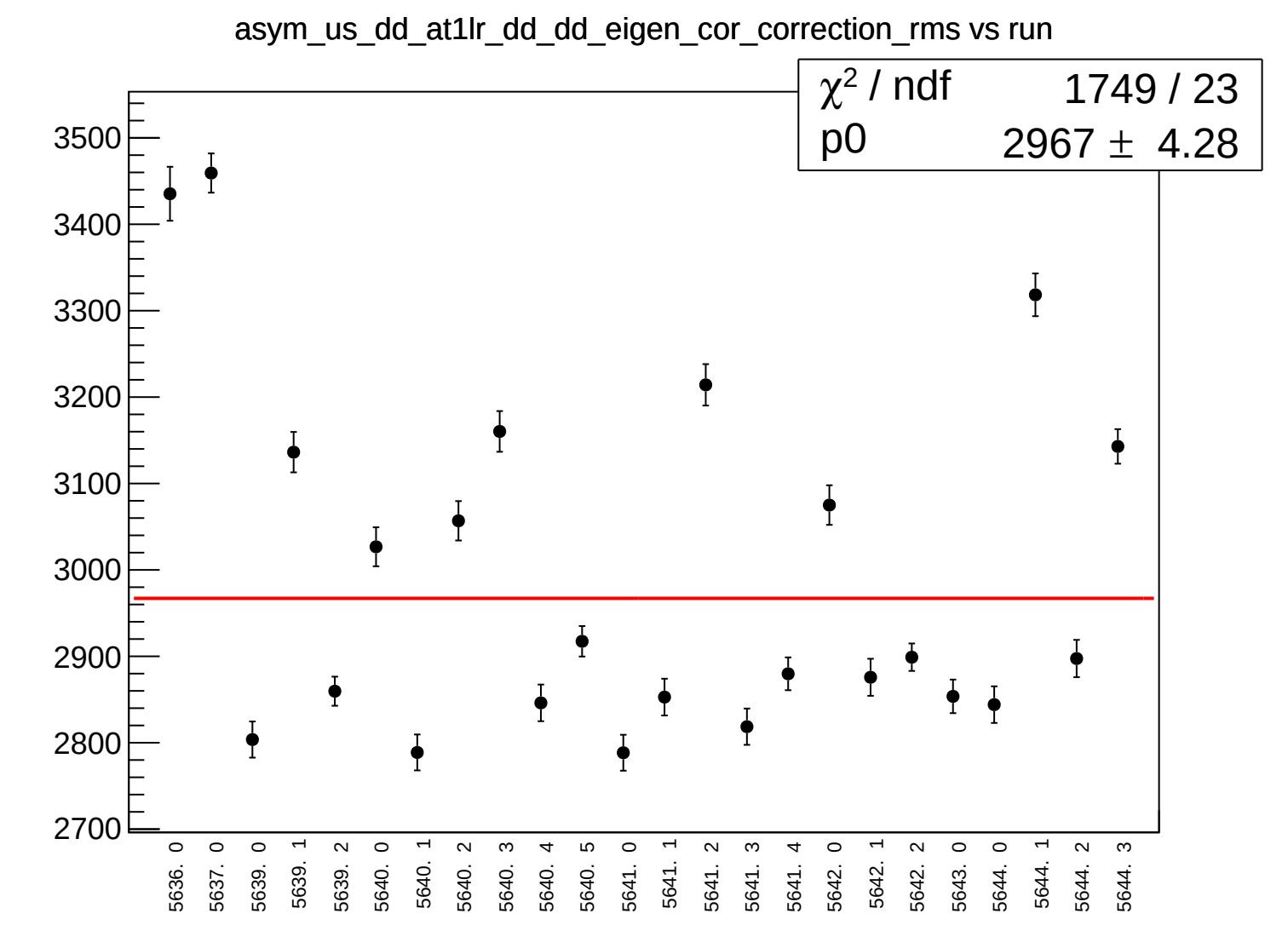

pull1D
Entries 24
Mean 0.02622
Std Dev 0.8987
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 76.23 / 23
p0 2315 ± 3.334
2450
2400
2350
2300
2250
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 32.66 / 23
p0 −801 ± 6053
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


pull
Entries 24
Mean −15.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 24
Mean 0.05349
Std Dev 1.165
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1749 / 23
p0 2967 ± 4.28
3500
3400
3300
3200
3100
3000
2900
2800
2700
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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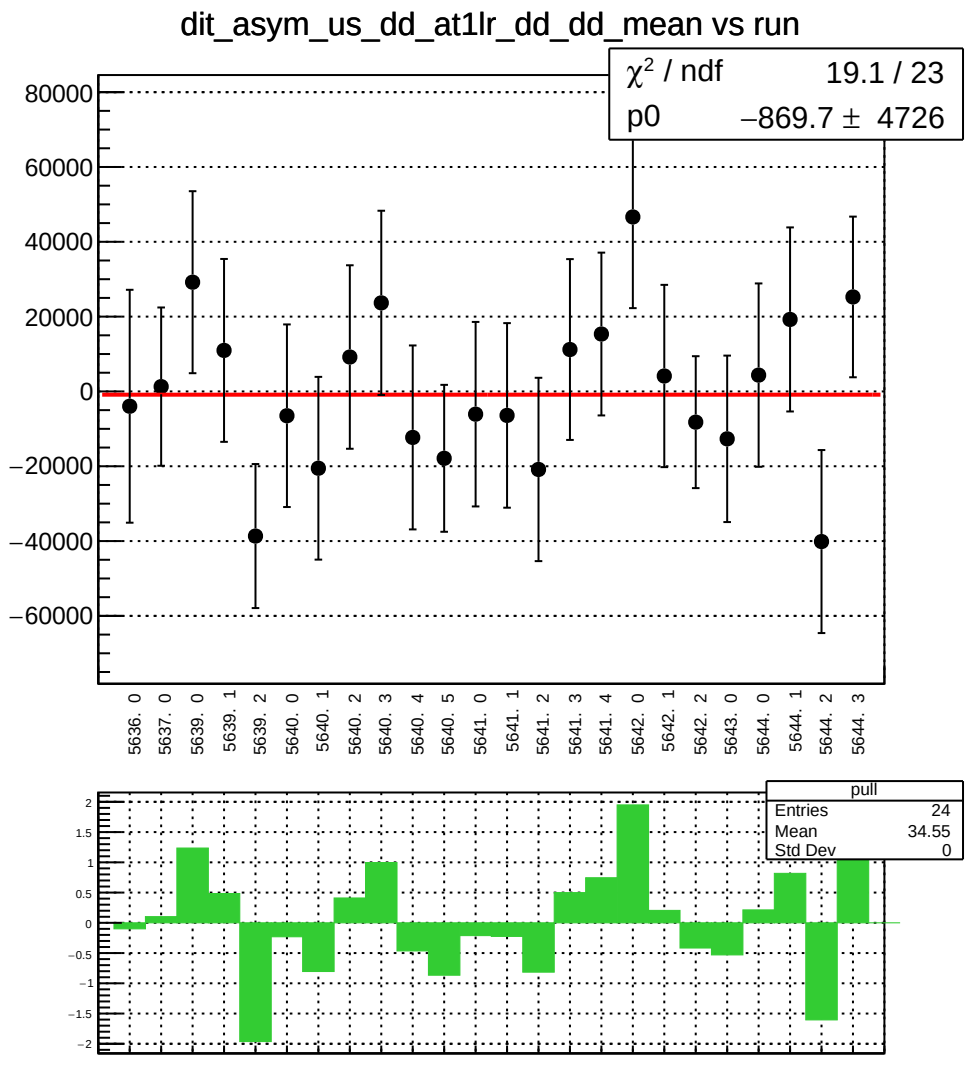
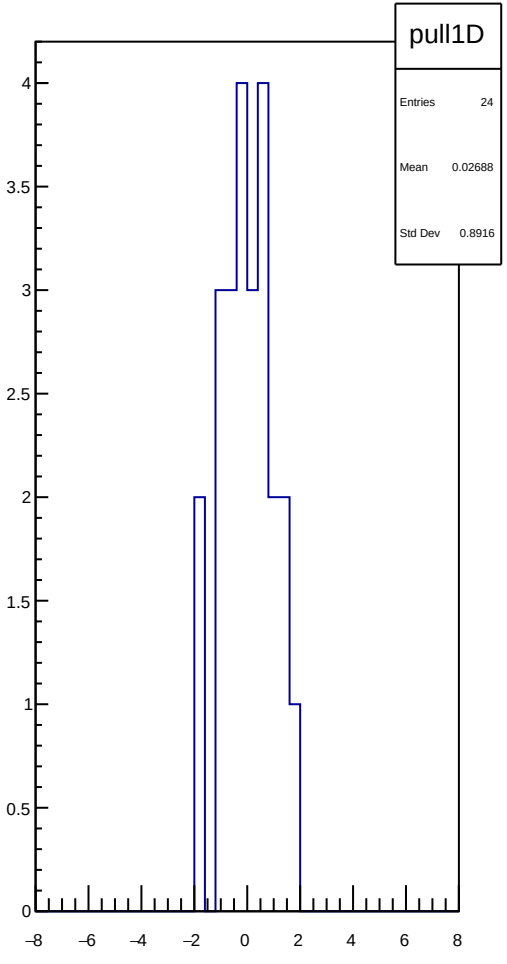
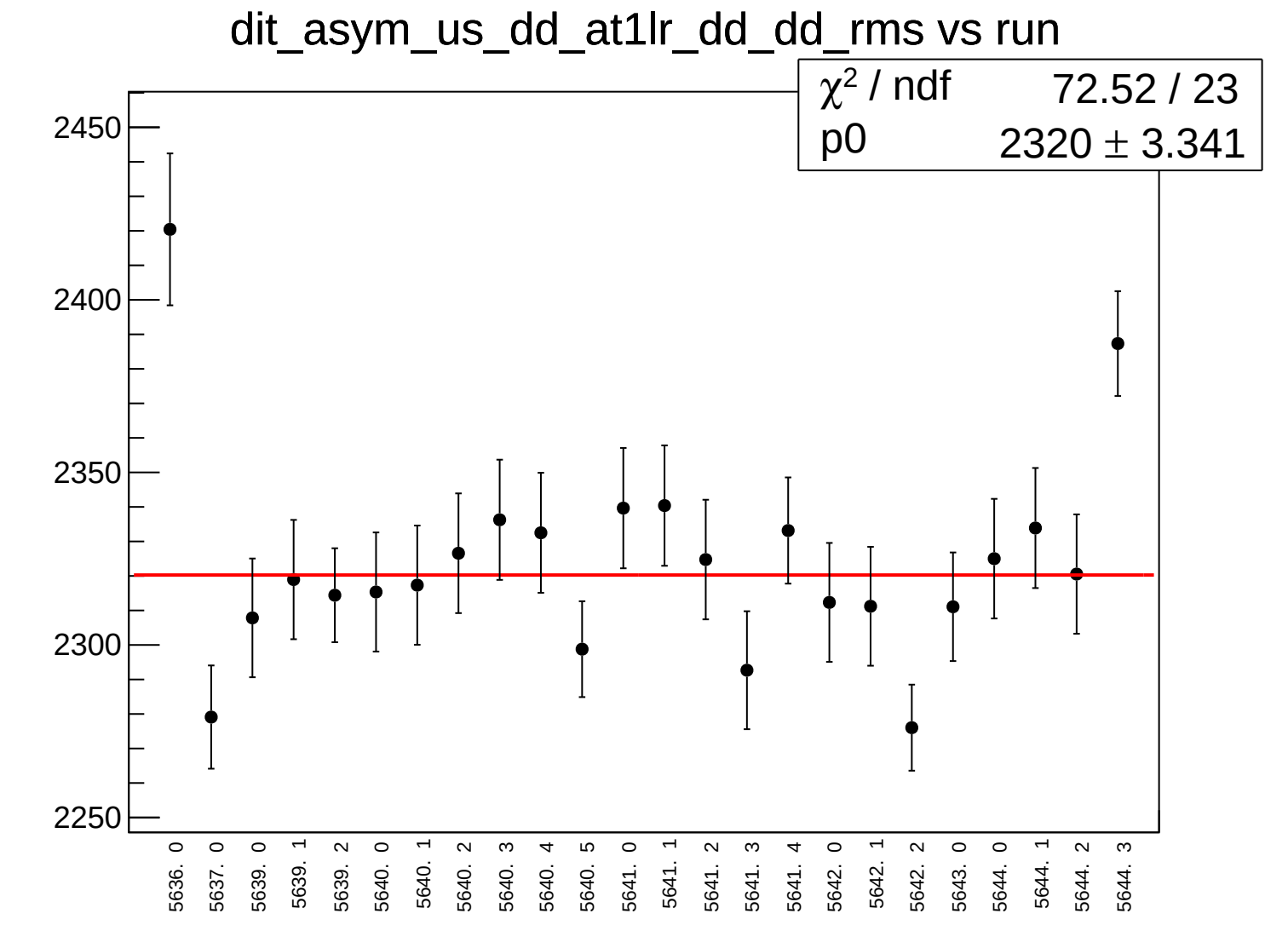
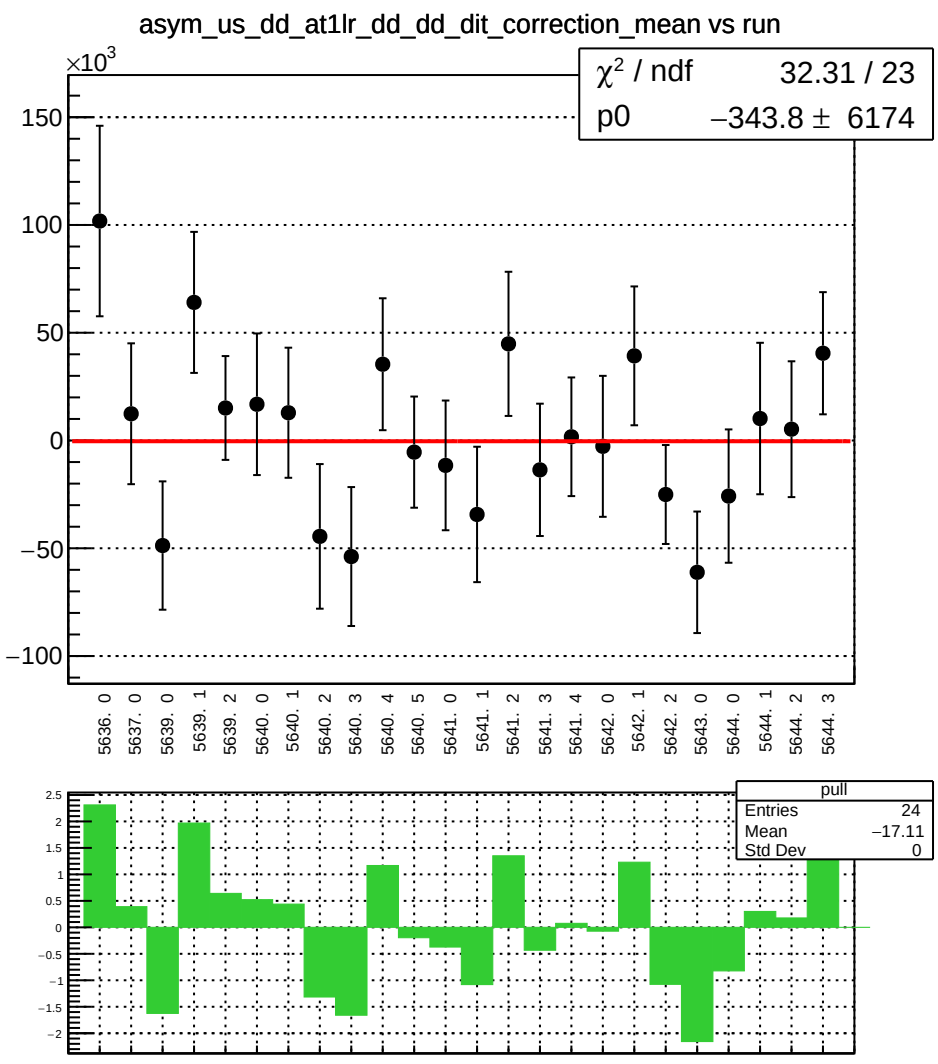
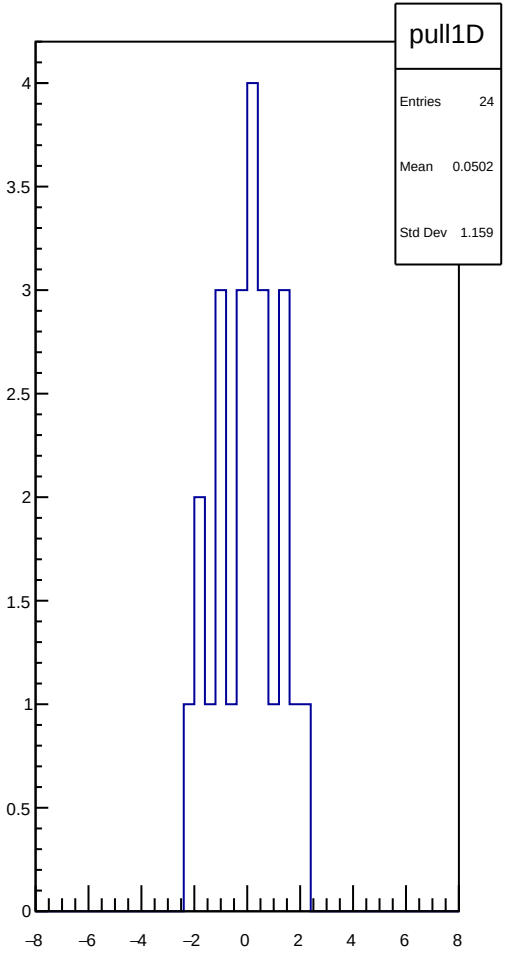
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

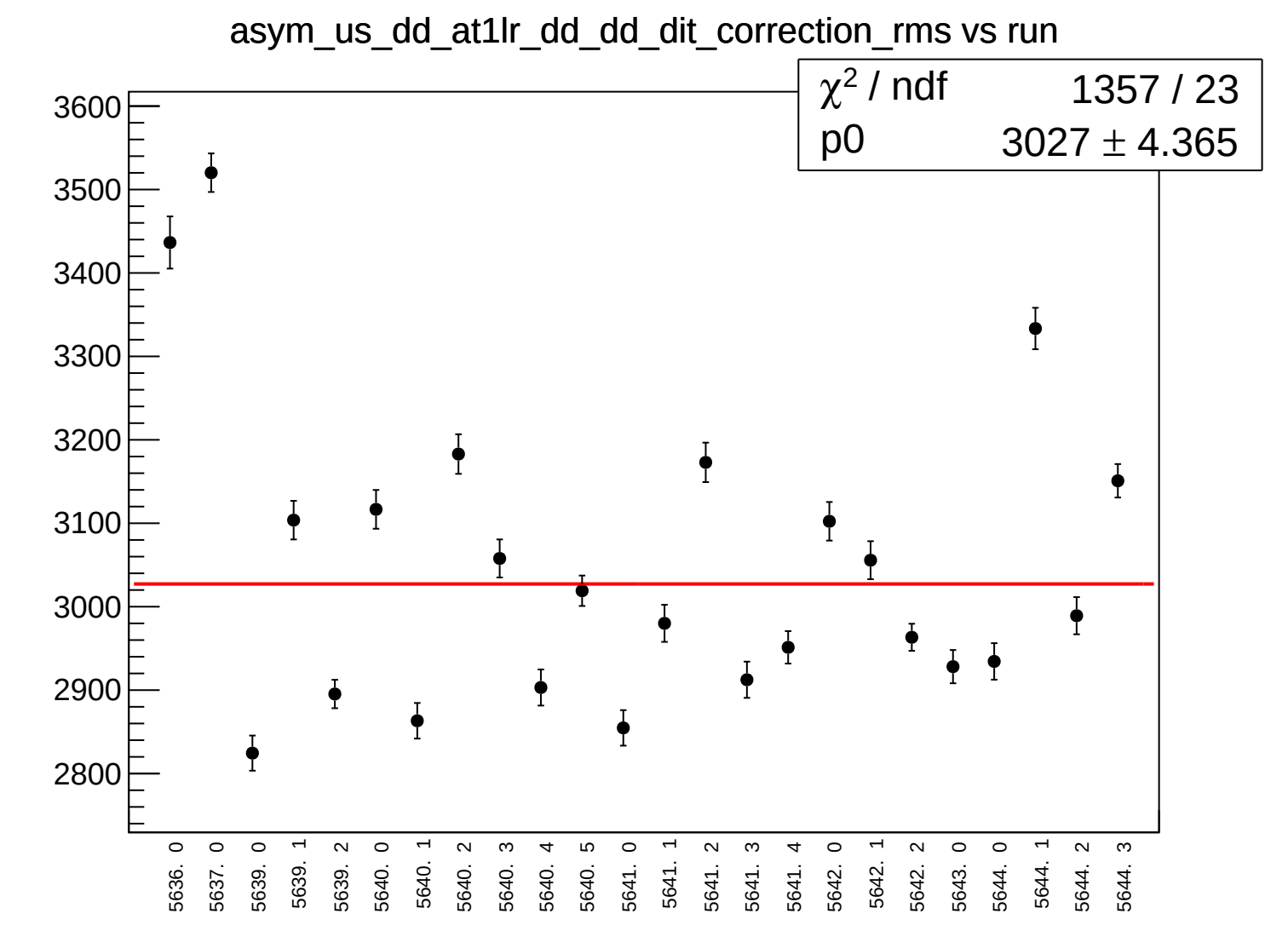

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 19.1 / 23
p0 −869.7 ± 4726
80000
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 34.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

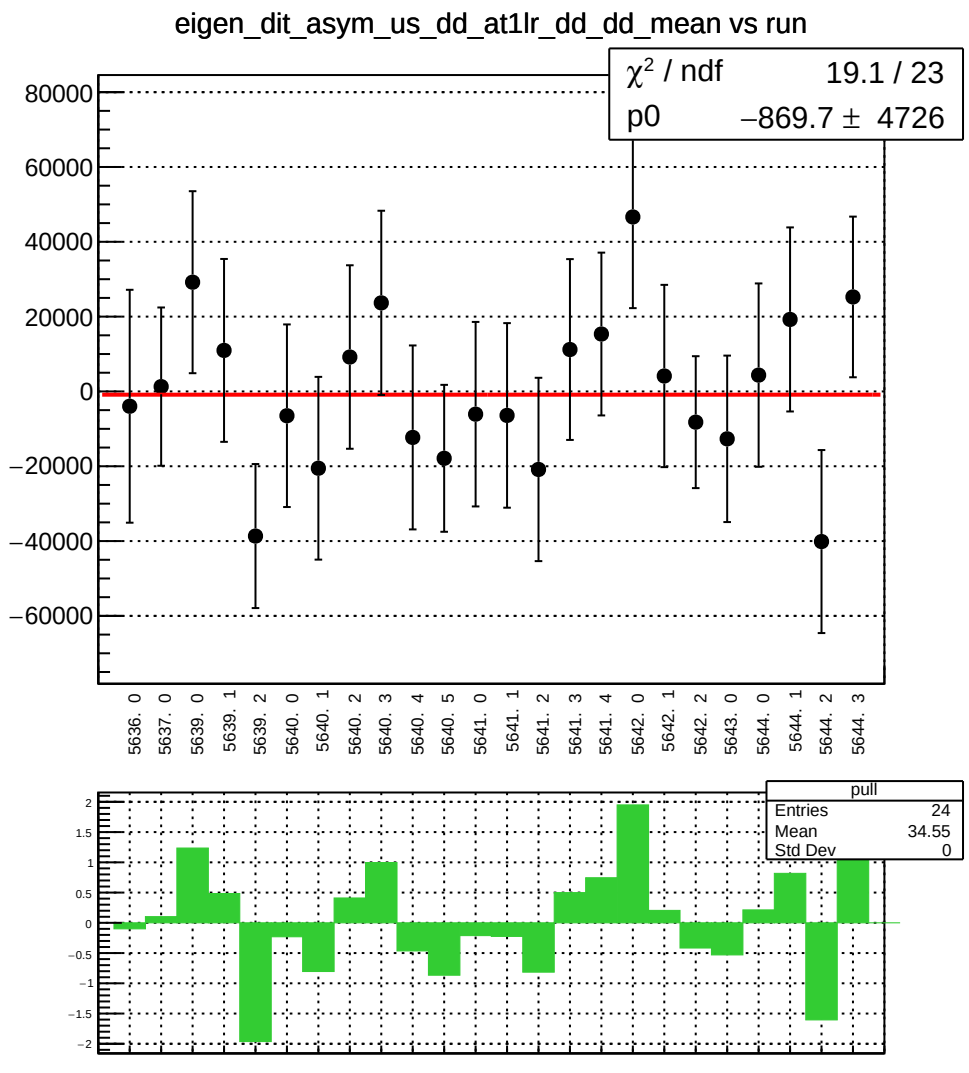

pull1D
Entries 24
Mean 0.02688
Std Dev 0.8916
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

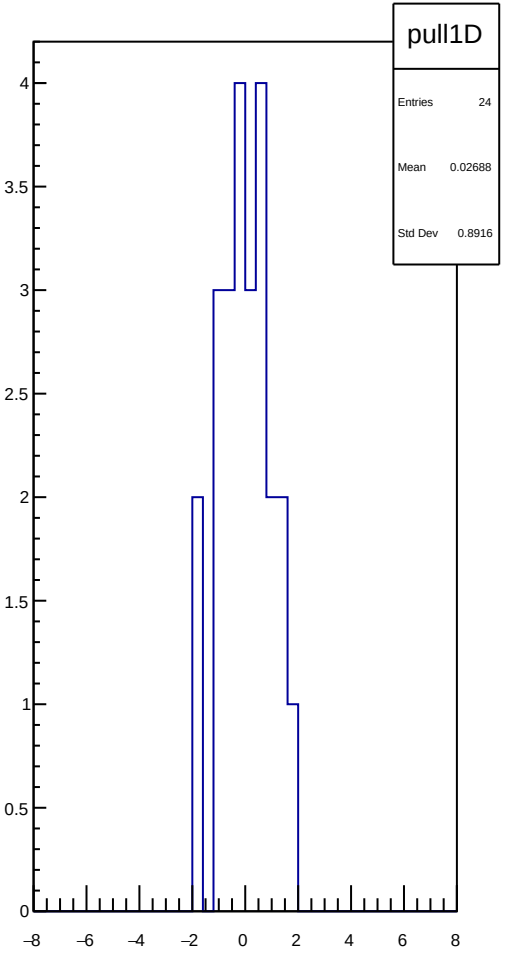

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 72.52 / 23
p0 2320 ± 3.341
2450
2400
2350
2300
2250
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

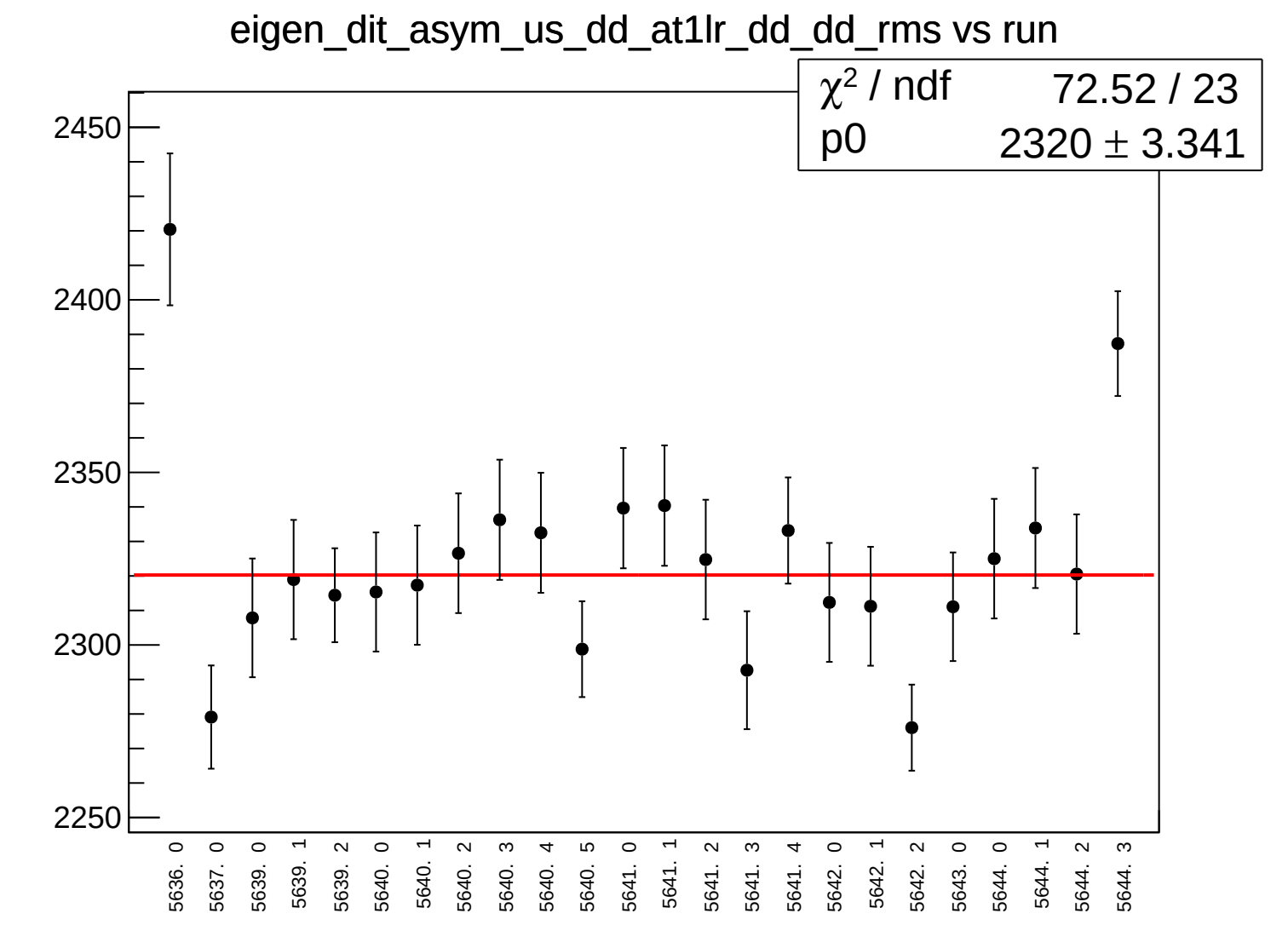

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 32.31 / 23
p0 −343.8 ± 6174
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −17.11
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

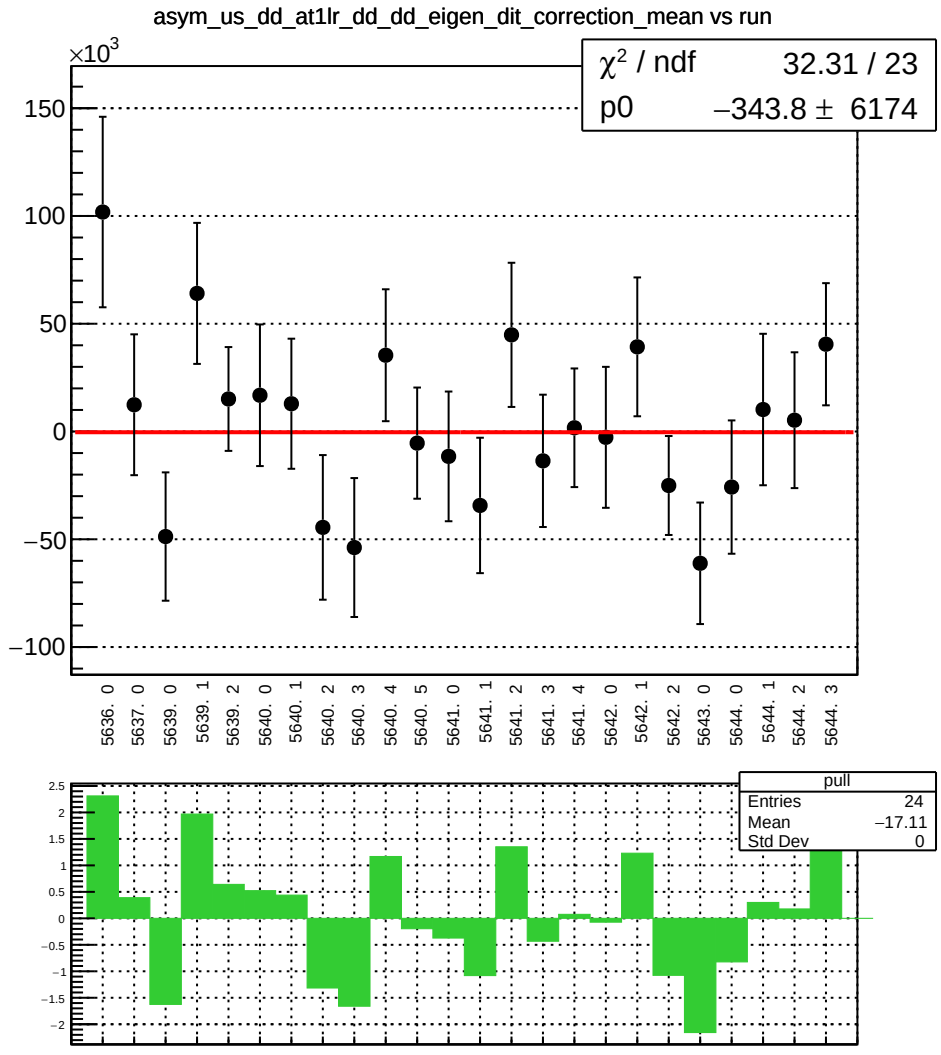

pull1D
Entries 24
Mean 0.0502
Std Dev 1.159
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

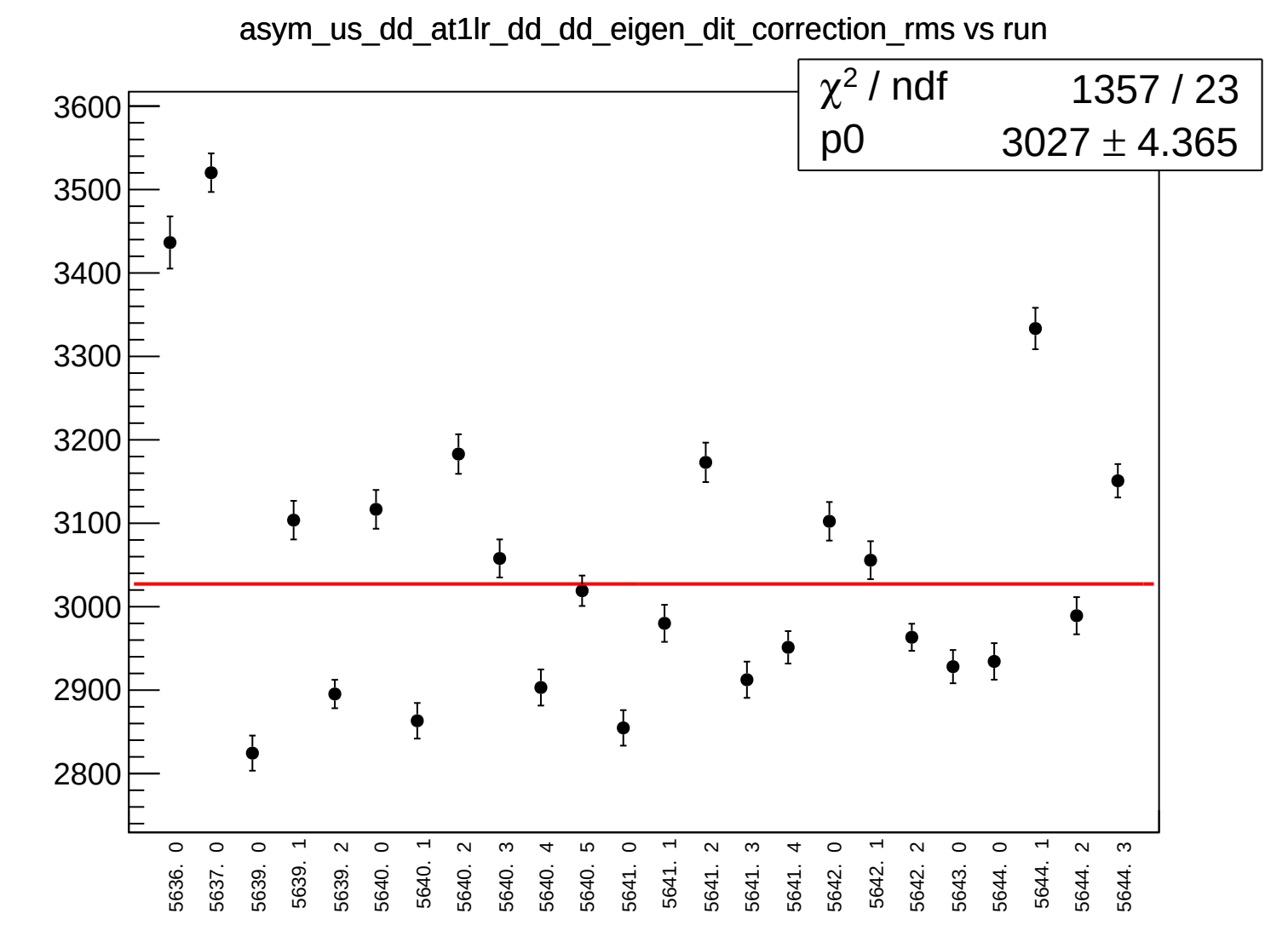

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 1357 / 23
p0 3027 ± 4.365
3600
3500
3400
3300
3200
3100
3000
2900
2800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

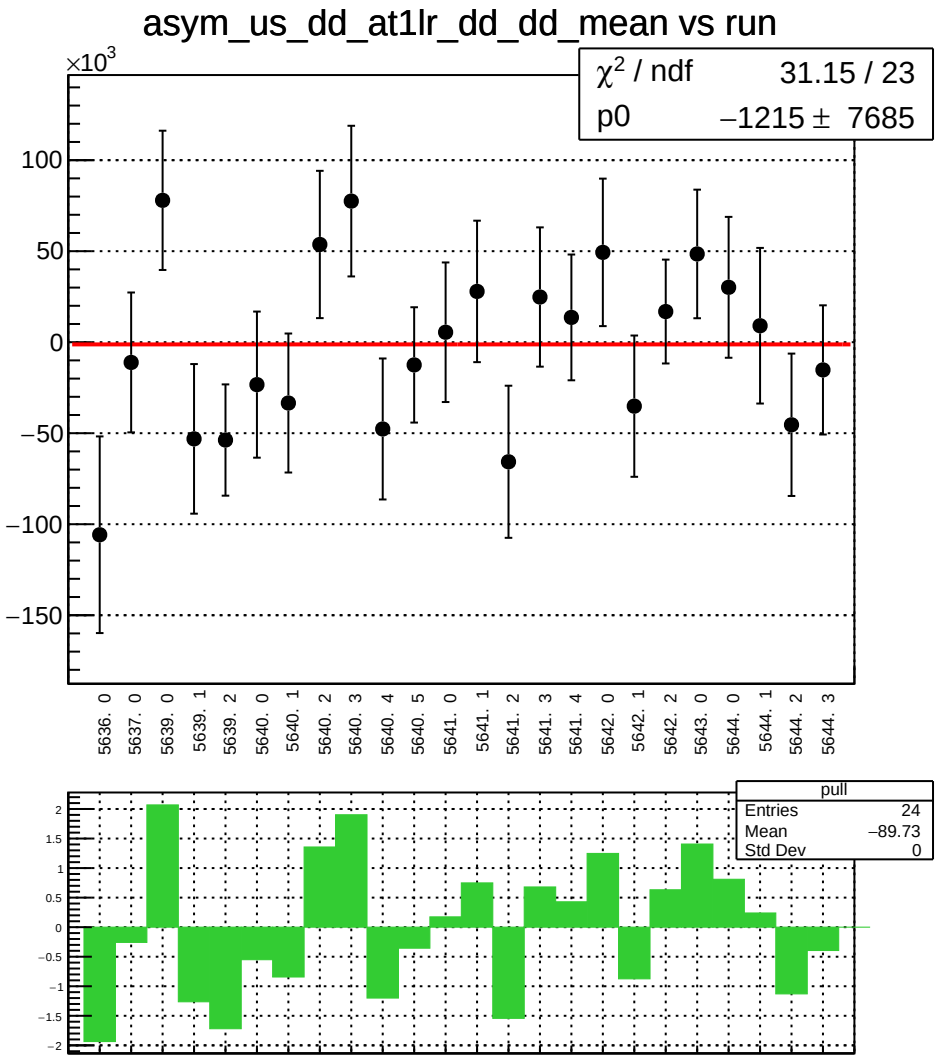

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 19.1 / 23
p0 −869.7 ± 4726
80000
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 34.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

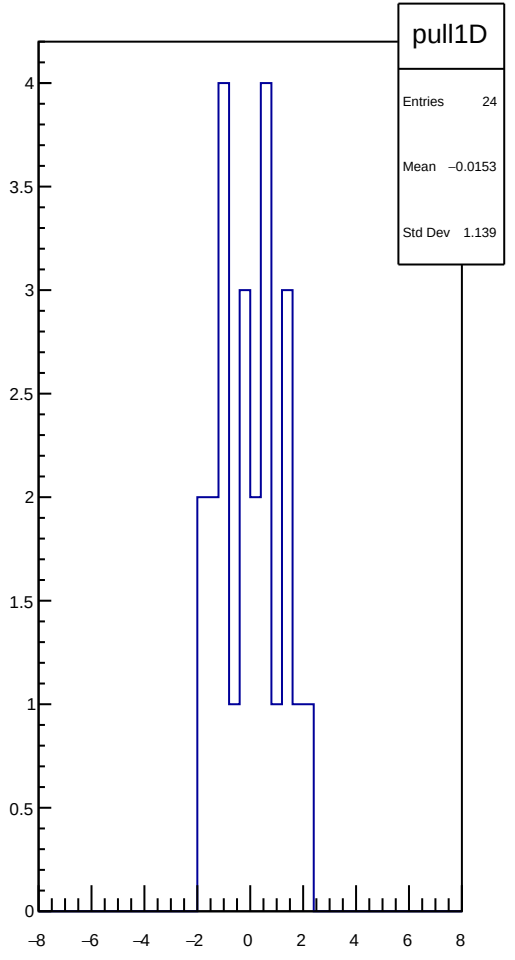

pull1D
Entries 24
Mean 0.02688
Std Dev 0.8916
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

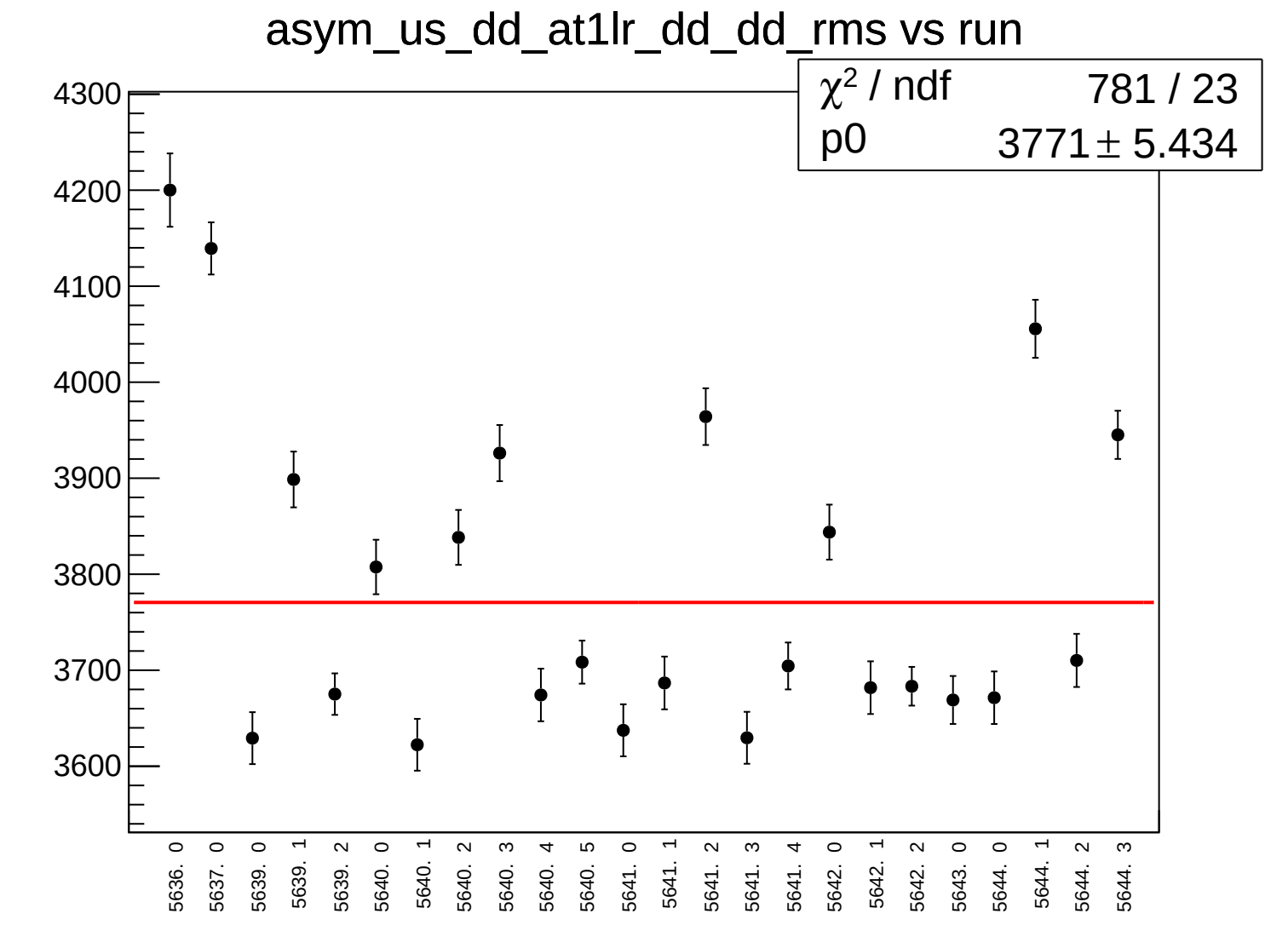

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 72.52 / 23
p0 2320 ± 3.341
2450
2400
2350
2300
2250
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

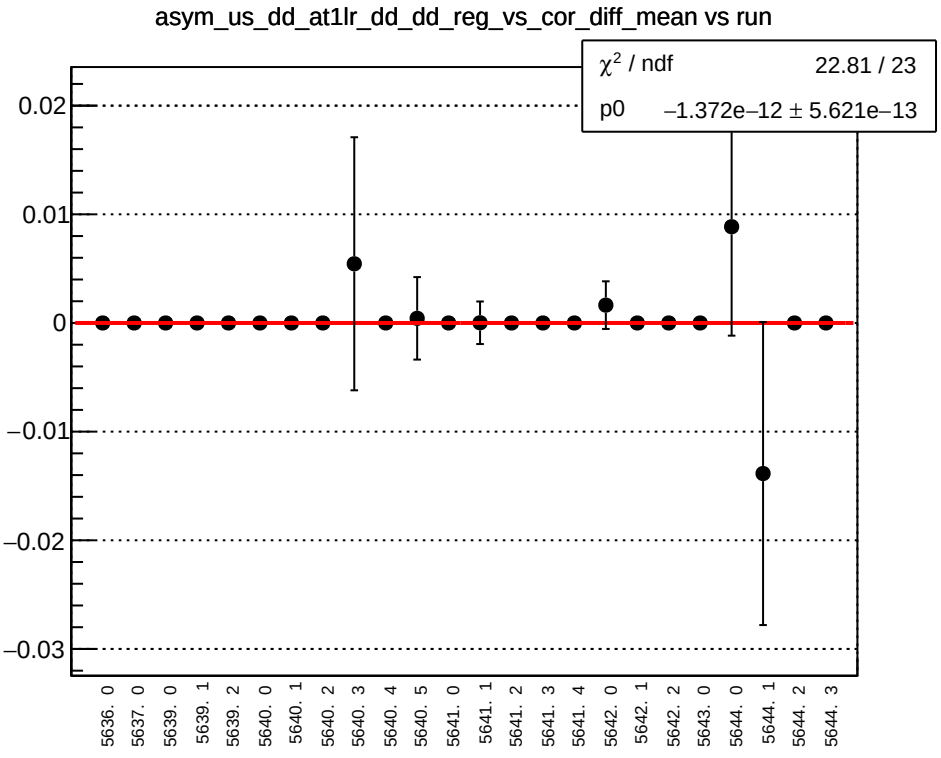

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 32.31 / 23
p0 −343.8 ± 6174
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −17.11
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.0502
Std Dev 1.159
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

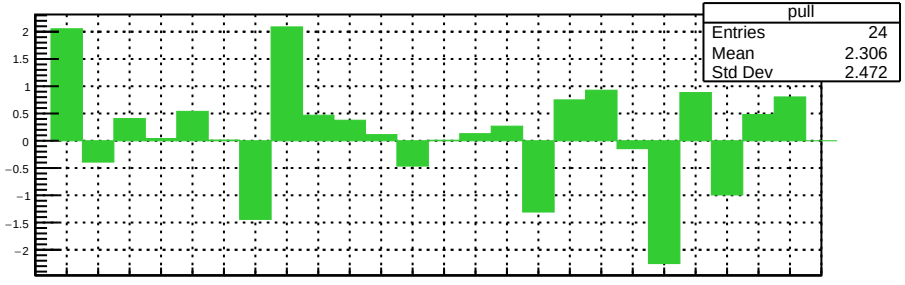

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1357 / 23
p0 3027 ± 4.365
3600
3500
3400
3300
3200
3100
3000
2900
2800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

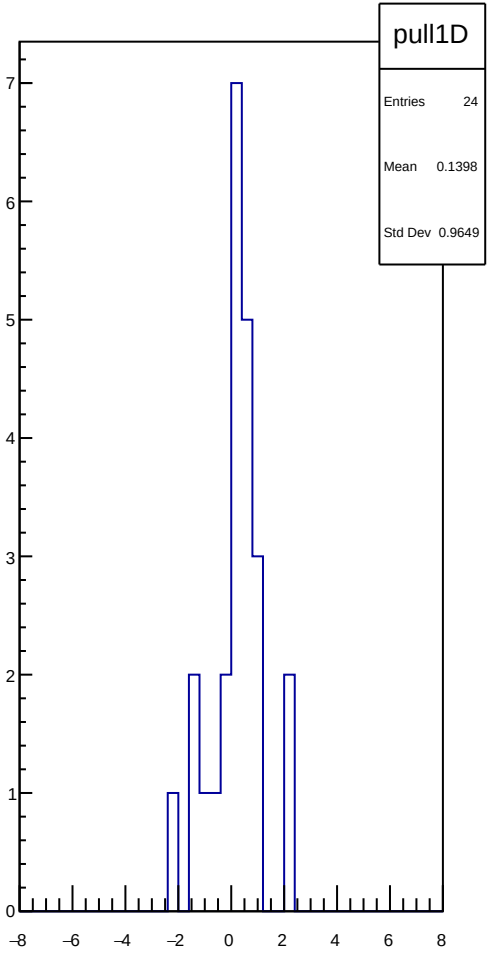

asym_us_dd_at1lr_dd_dd_mean vs run
×10^3
χ² / ndf 31.15 / 23
p0 −1215 ± 7685
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −89.73
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

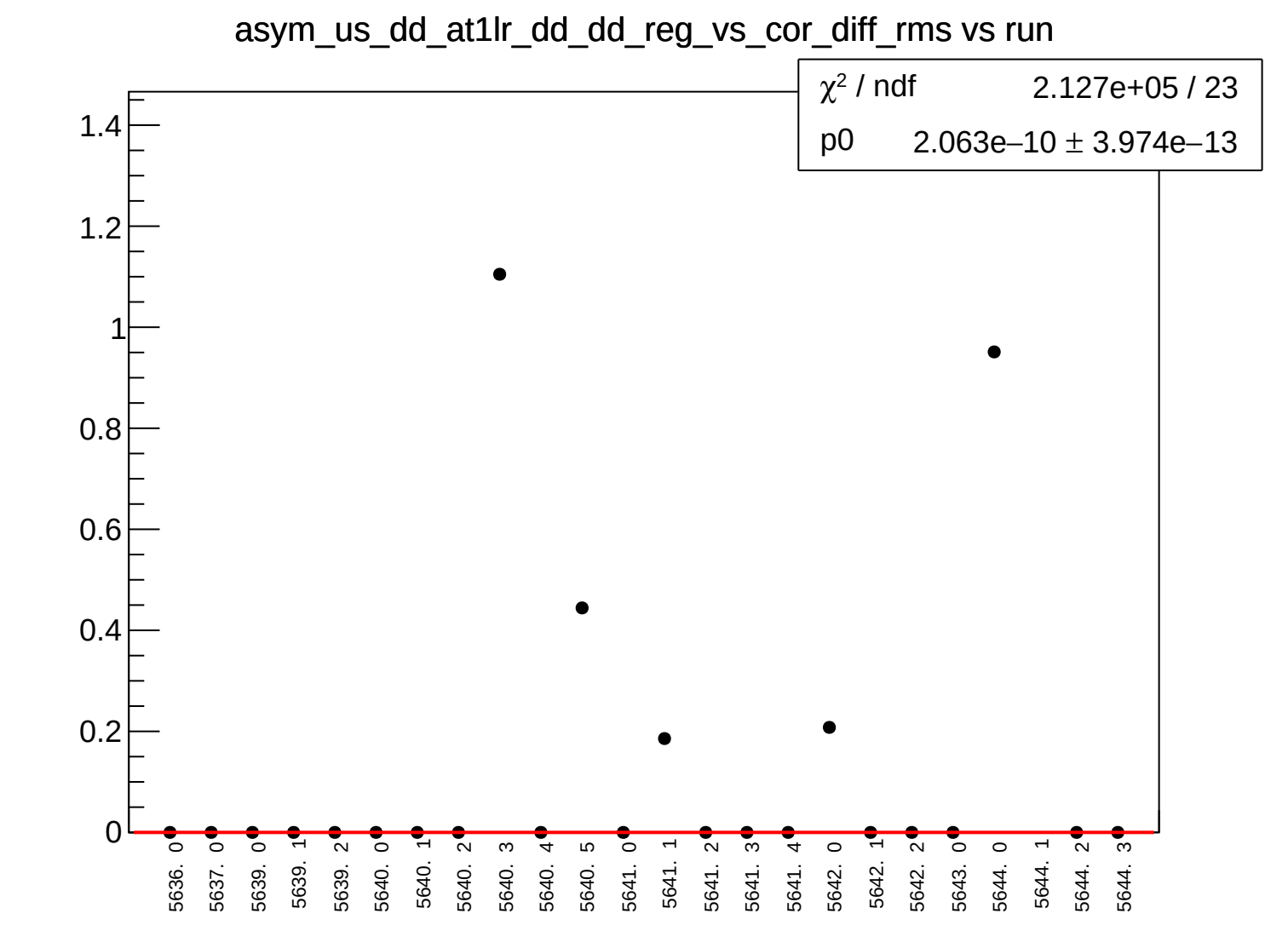

pull1D
Entries 24
Mean −0.0153
Std Dev 1.139
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

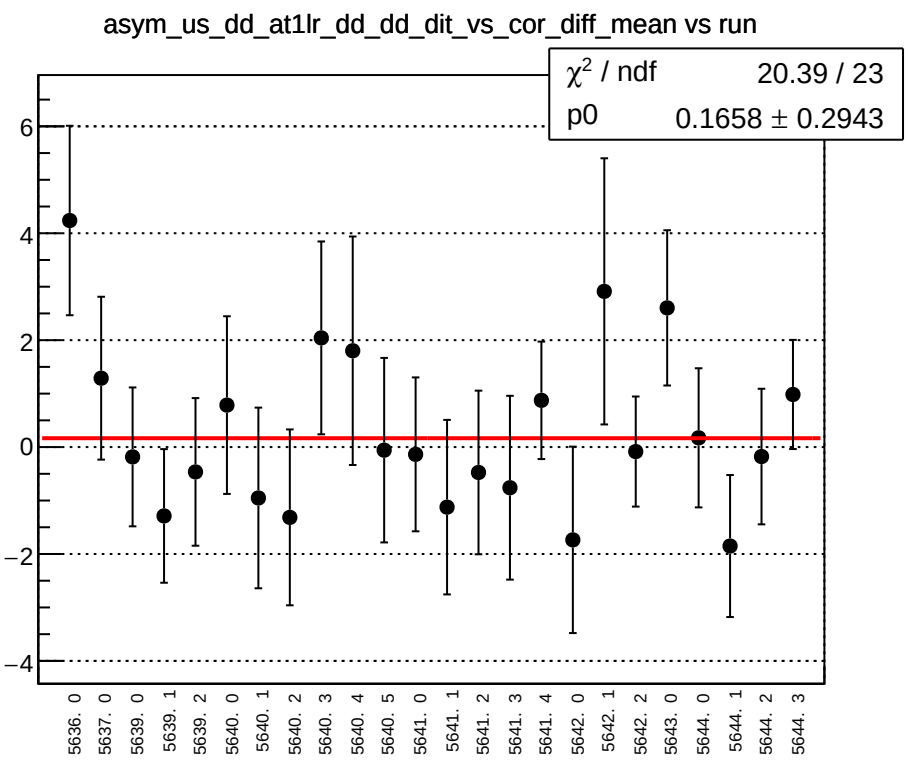

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 781 / 23
p0 3771 ± 5.434
4300
4200
4100
4000
3900
3800
3700
3600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

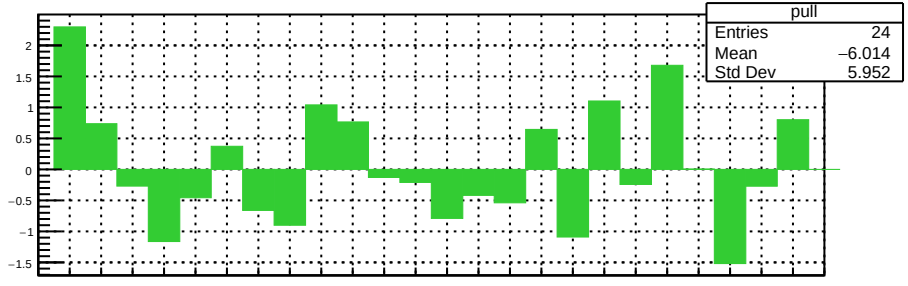

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 22.81 / 23
p0 −1.372e−12 ± 5.621e−13
0.02
0.01
0
−0.01
−0.02
−0.03
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

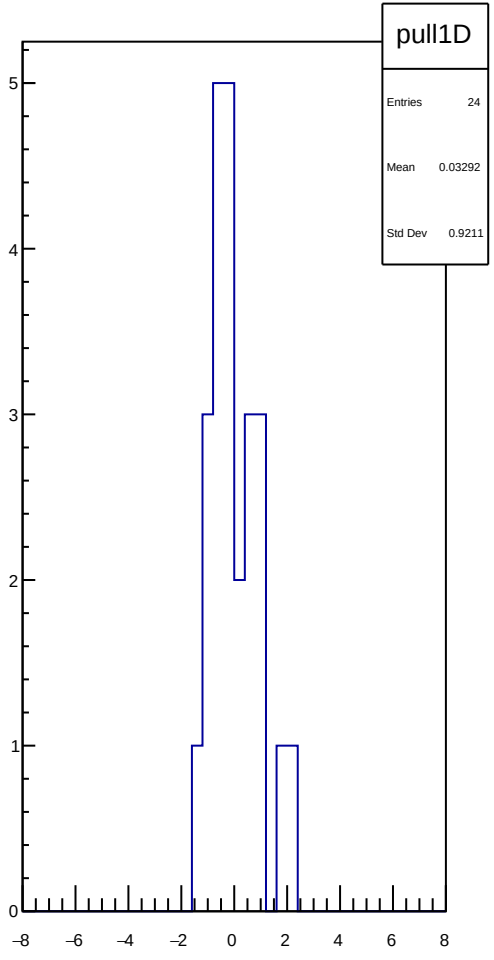

pull
Entries 24
Mean 2.306
Std Dev 2.472
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

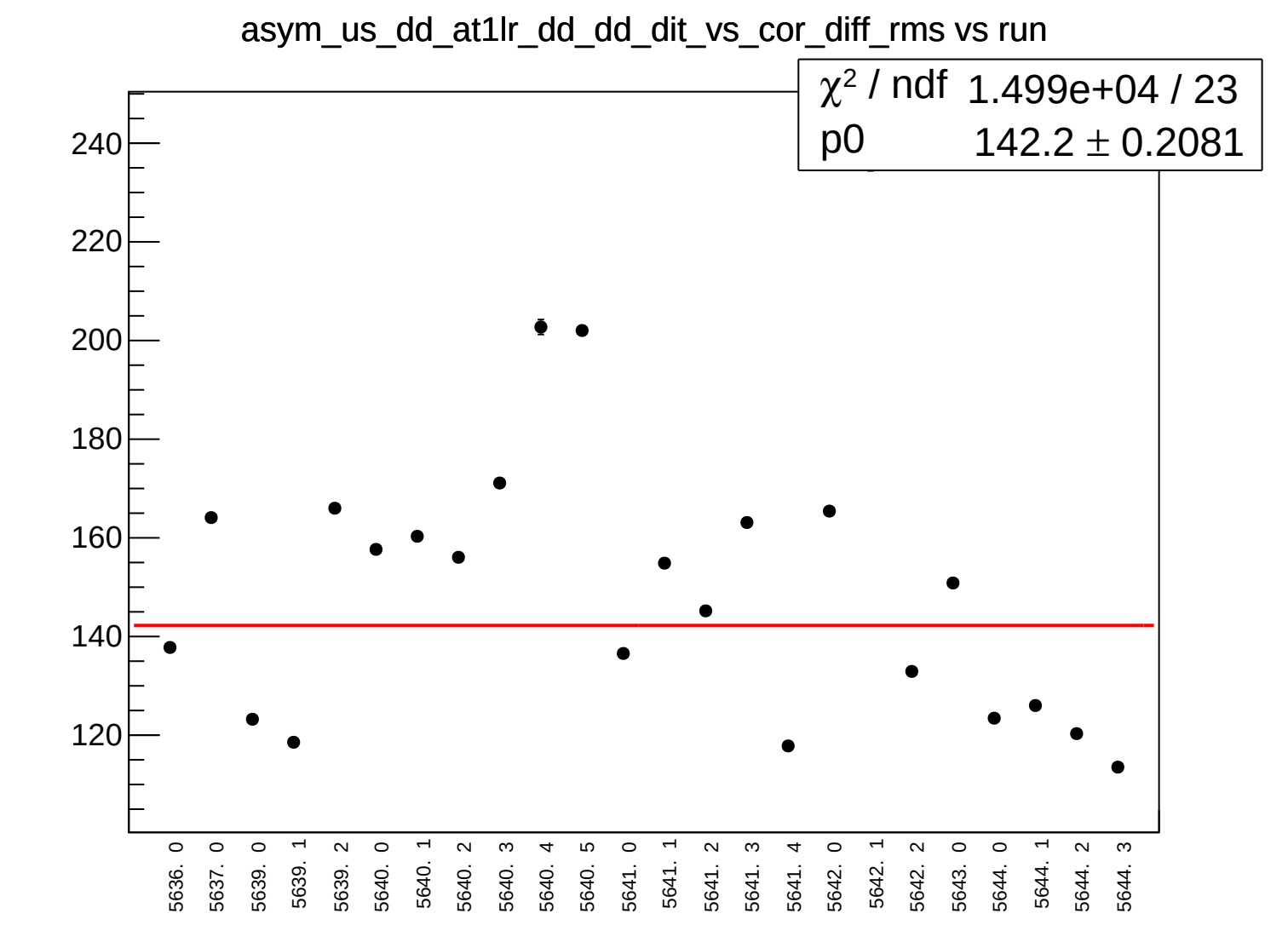

pull1D
Entries 24
Mean 0.1398
Std Dev 0.9649
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

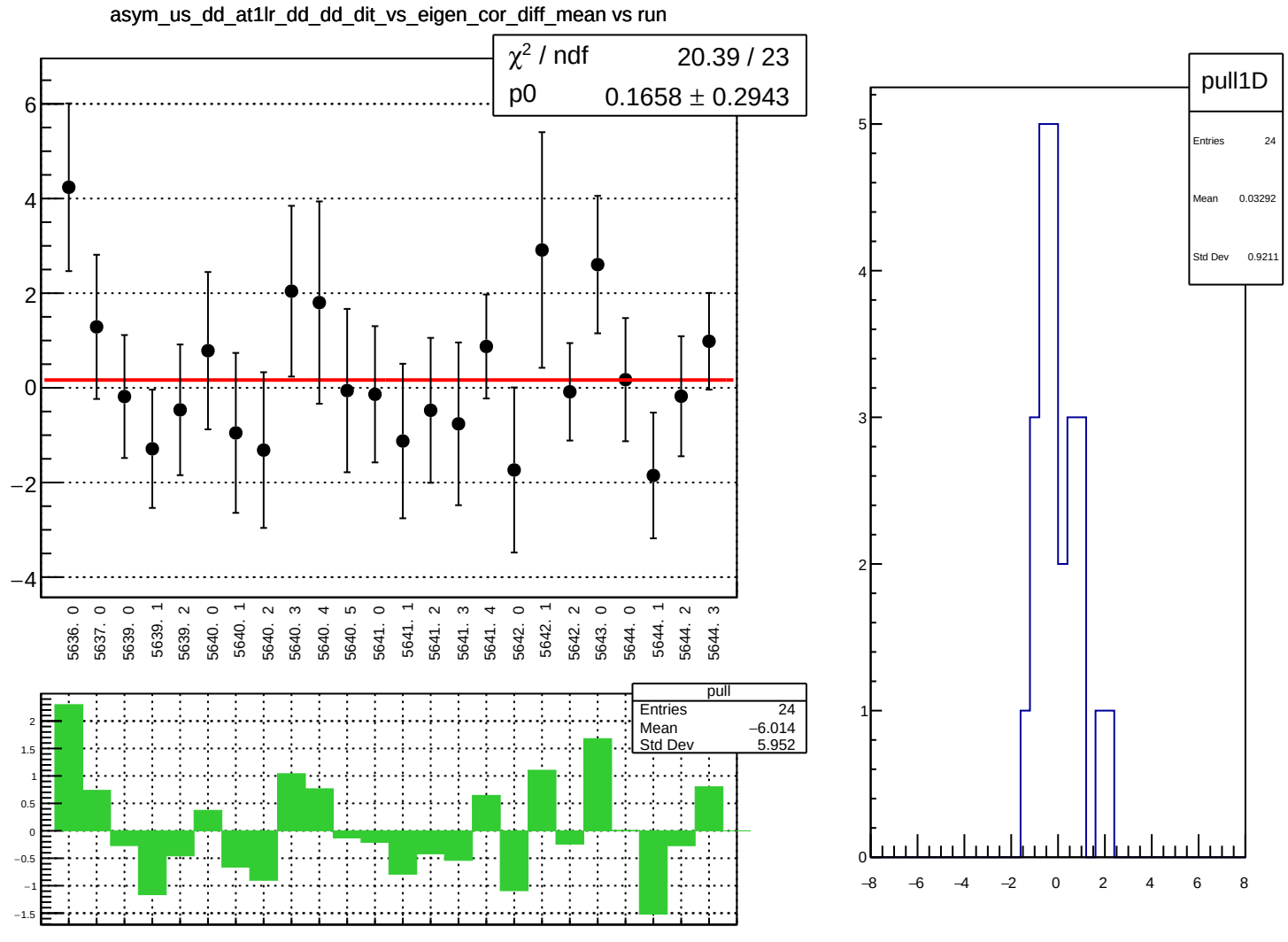

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.127e+05 / 23
p0 2.063e−10 ± 3.974e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

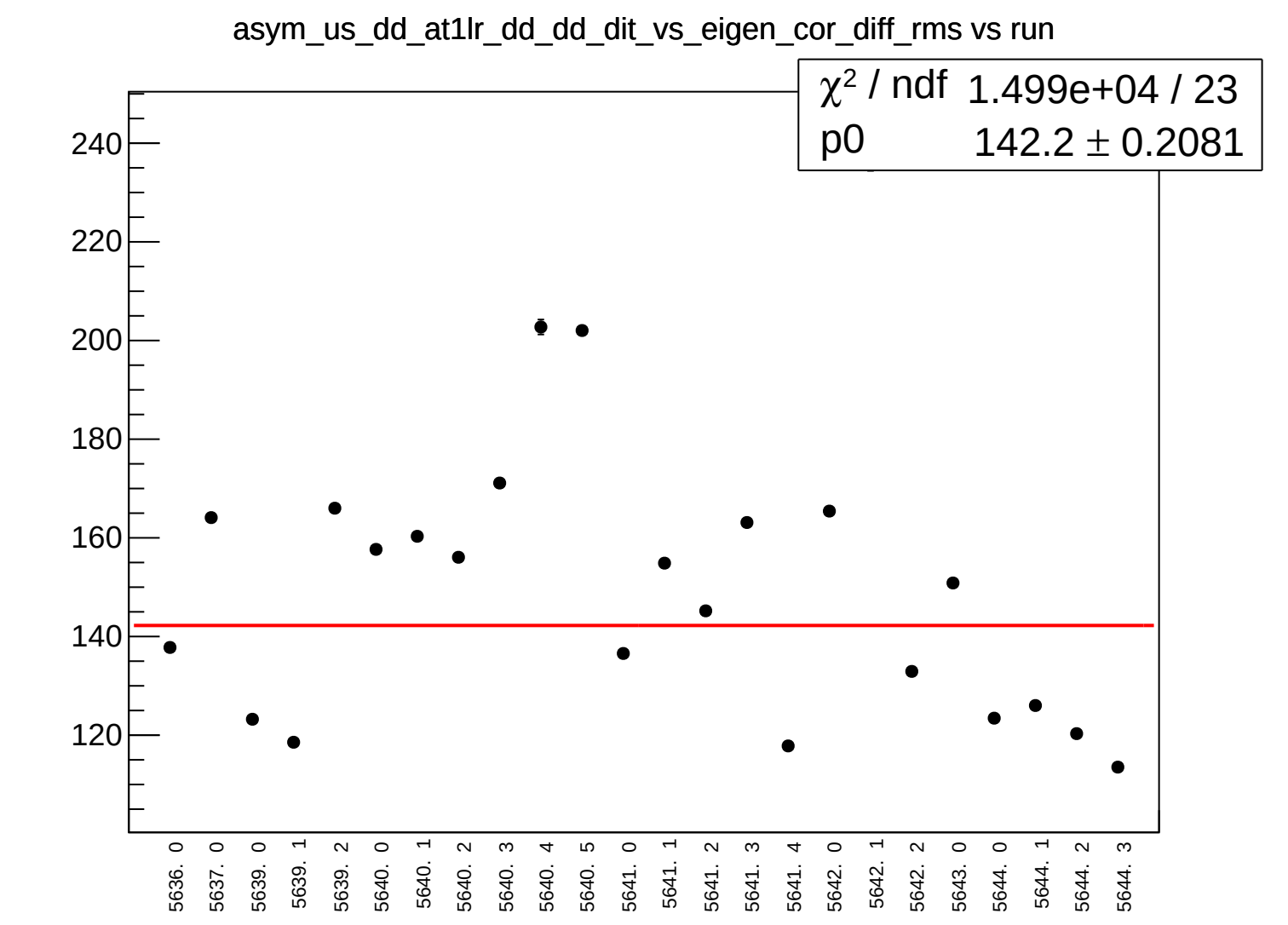

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 20.39 / 23
p0 0.1658 ± 0.2943
6
4
2
0
−2
−4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

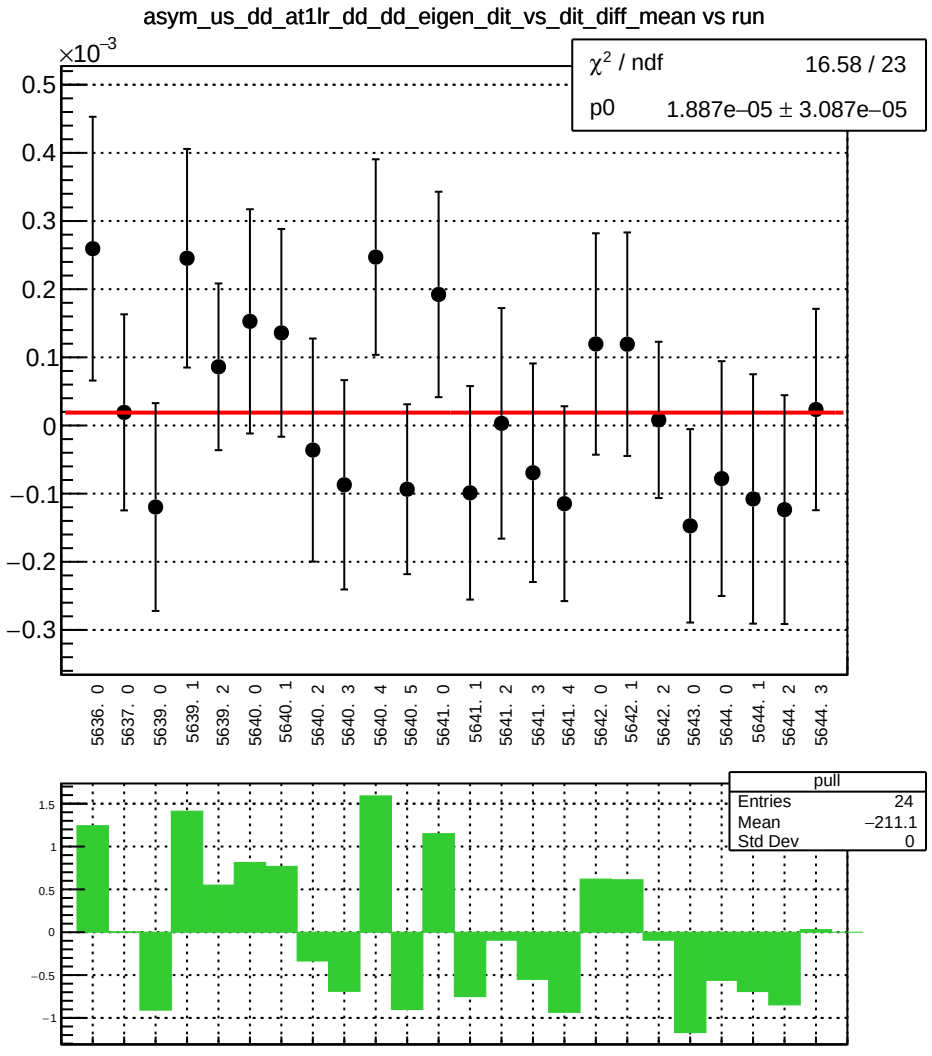

pull
Entries 24
Mean −6.014
Std Dev 5.952
2
1.5
1
0.5
0
−0.5
−1
−1.5

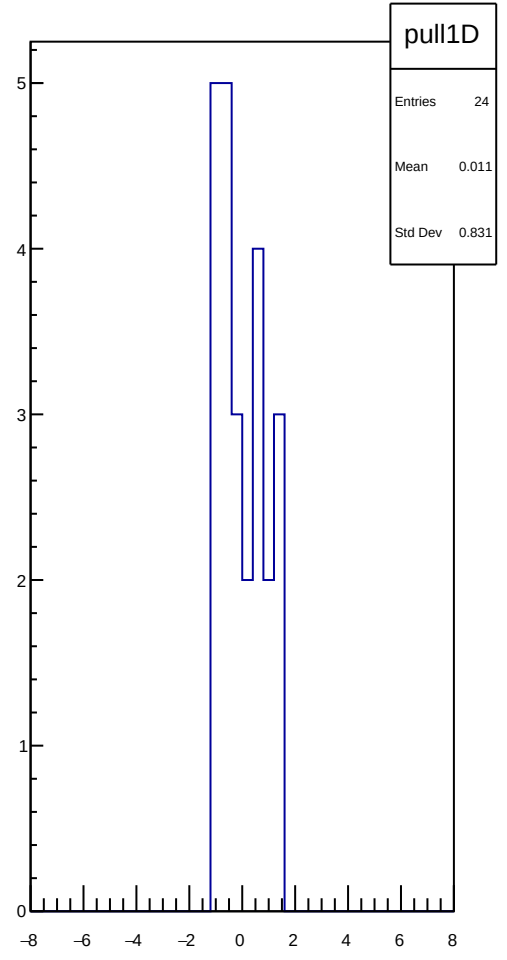

pull1D
Entries 24
Mean 0.03292
Std Dev 0.9211
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

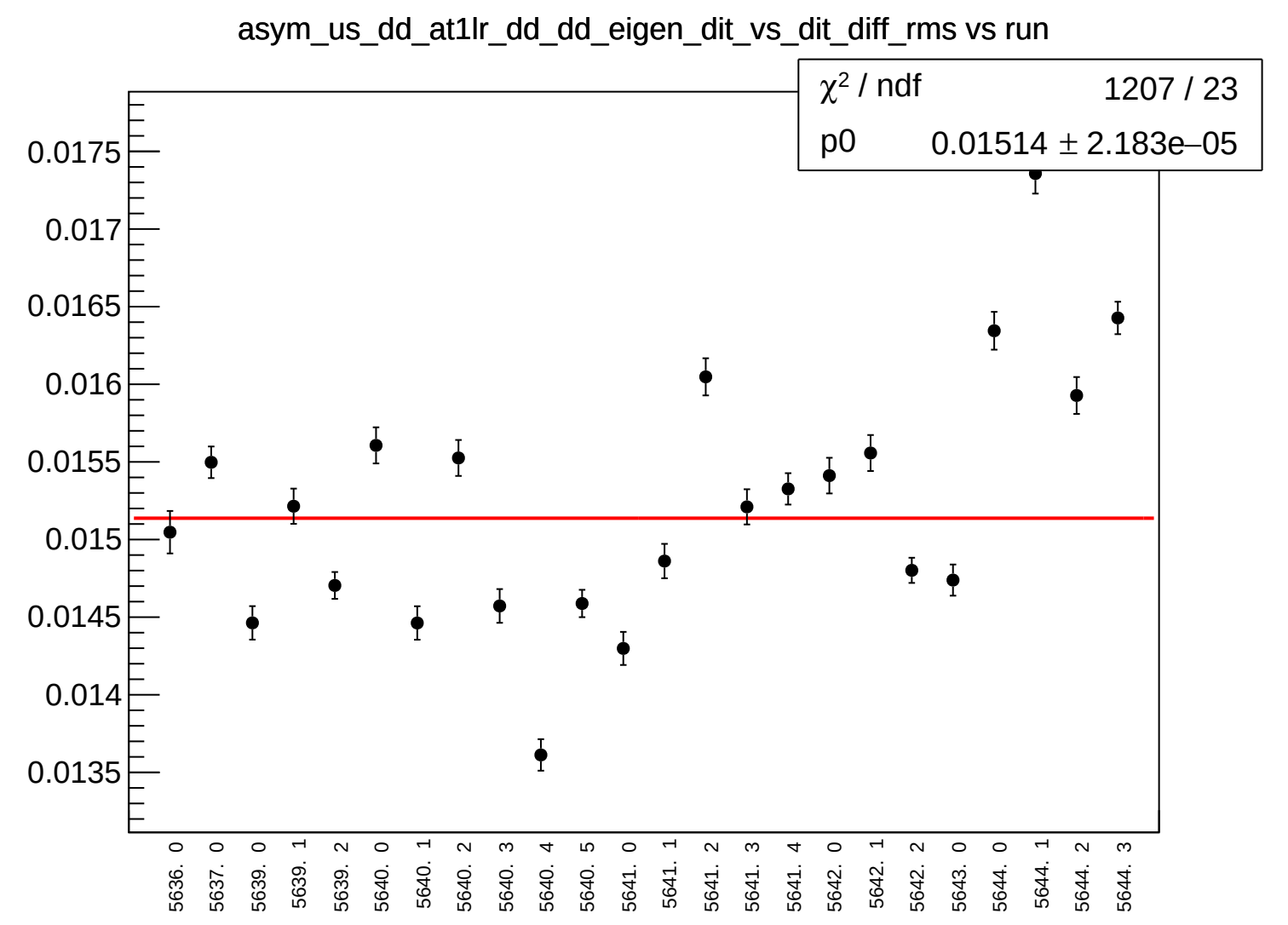

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.499e+04 / 23
p0 142.2 ± 0.2081
240
220
200
180
160
140
120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

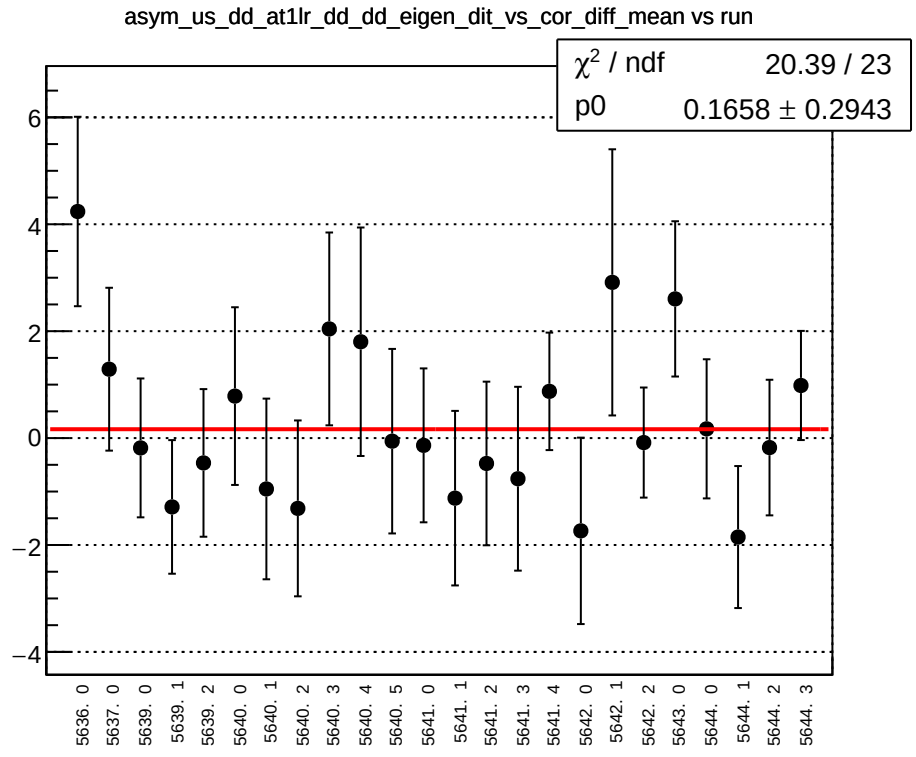

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 20.39 / 23
p0 0.1658 ± 0.2943
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −6.014
Std Dev 5.952
pull1D
Entries 24
Mean 0.03292
Std Dev 0.9211

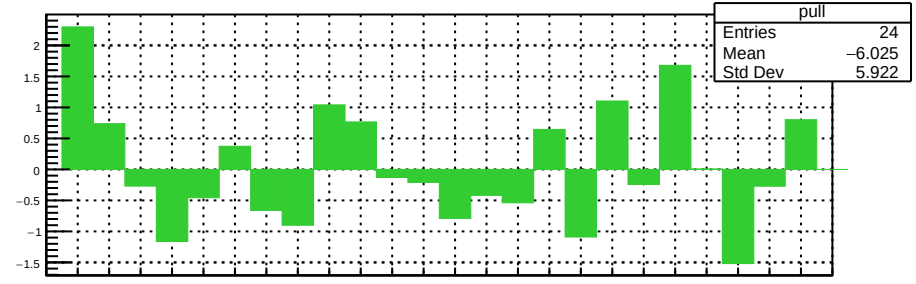

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.499e+04 / 23
p0 142.2 ± 0.2081
240
220
200
180
160
140
120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

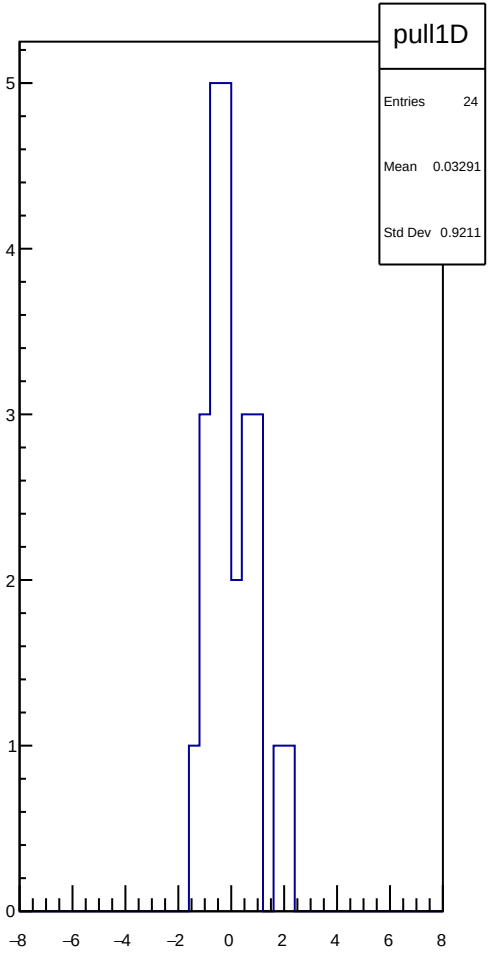

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 16.58 / 23
p0 1.887e−05 ± 3.087e−05
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −211.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1

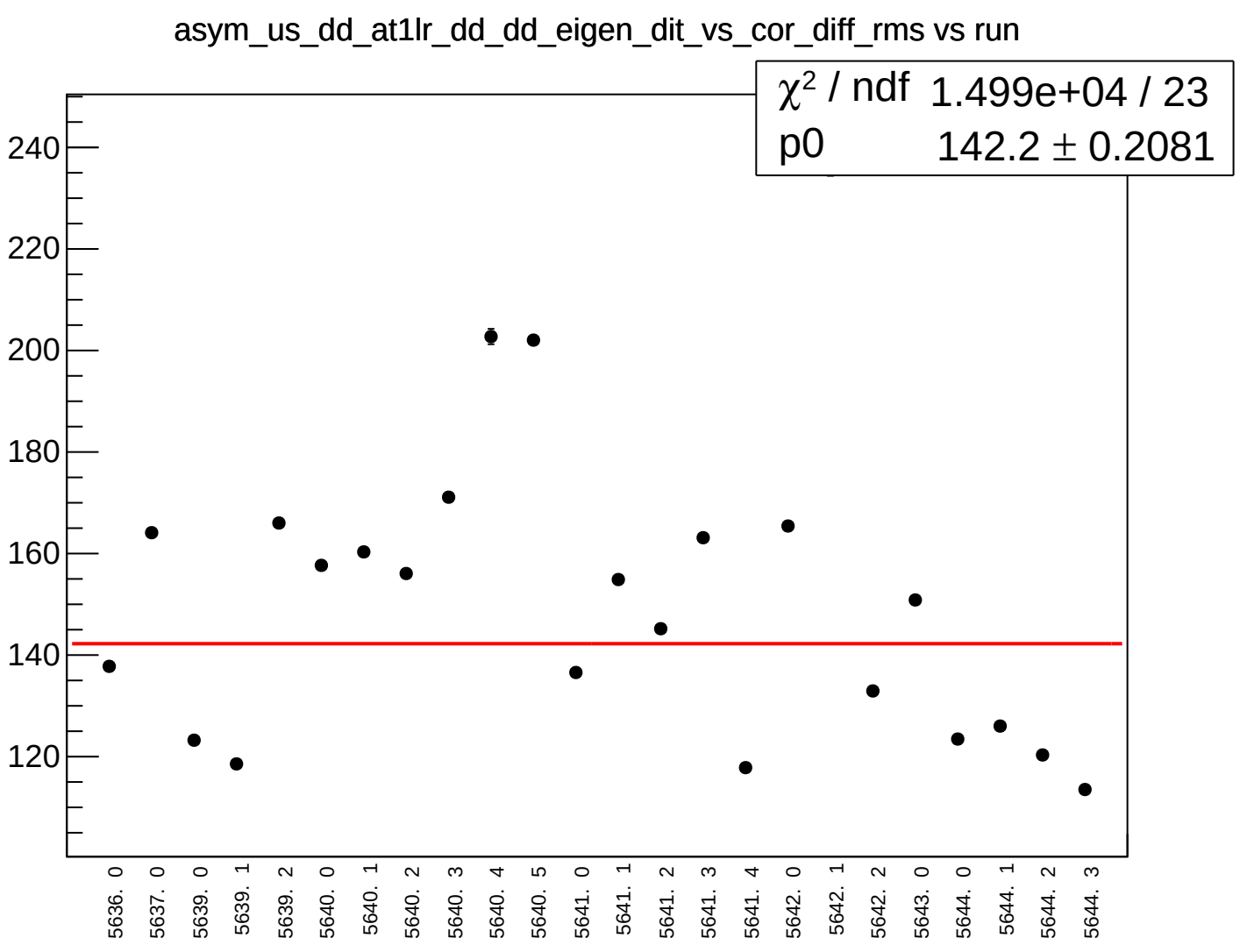

pull1D
Entries 24
Mean 0.011
Std Dev 0.831
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

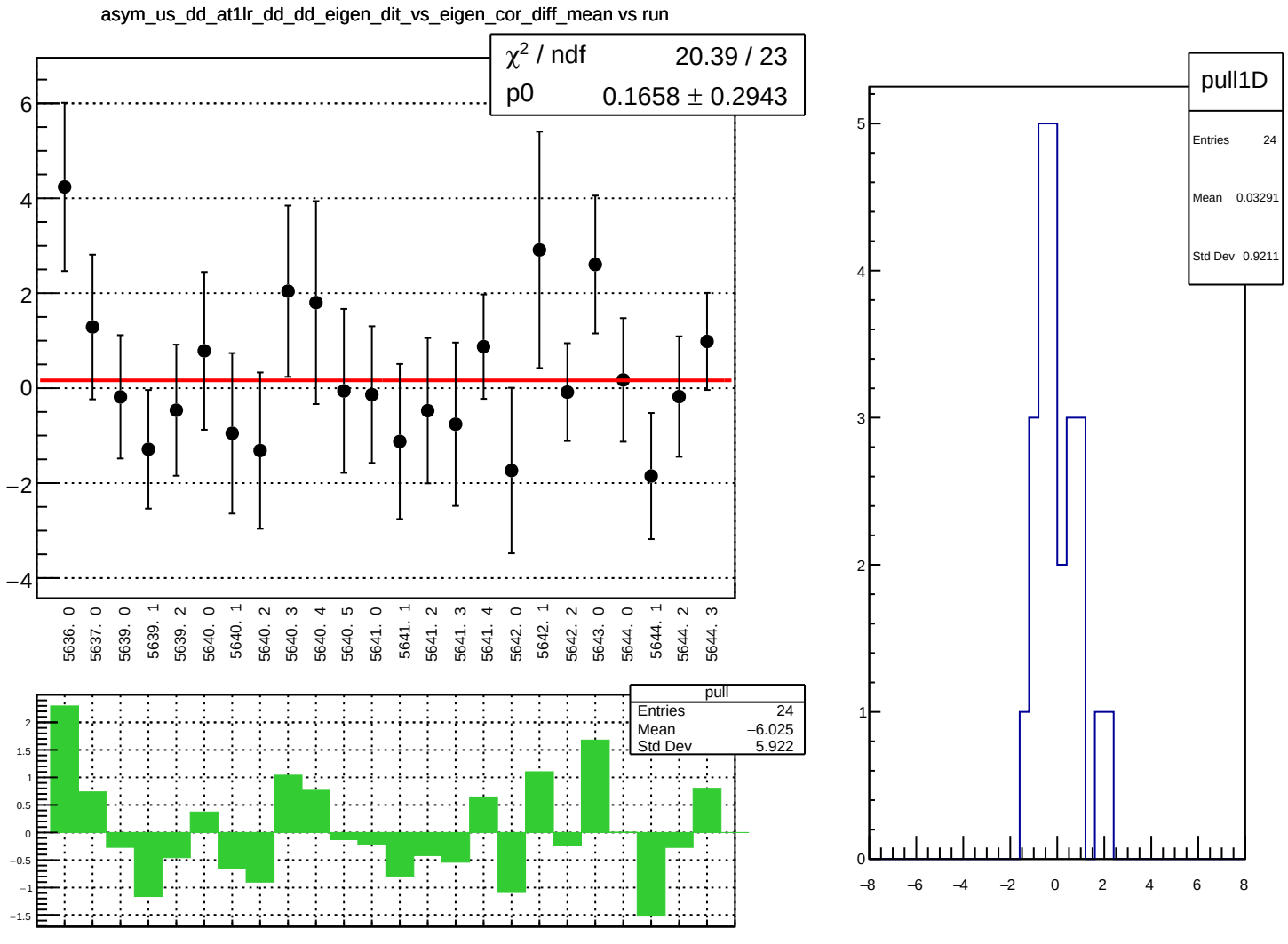

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1207 / 23
p0 0.01514 ± 2.183e–05
0.0175
0.017
0.0165
0.016
0.0155
0.015
0.0145
0.014
0.0135
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

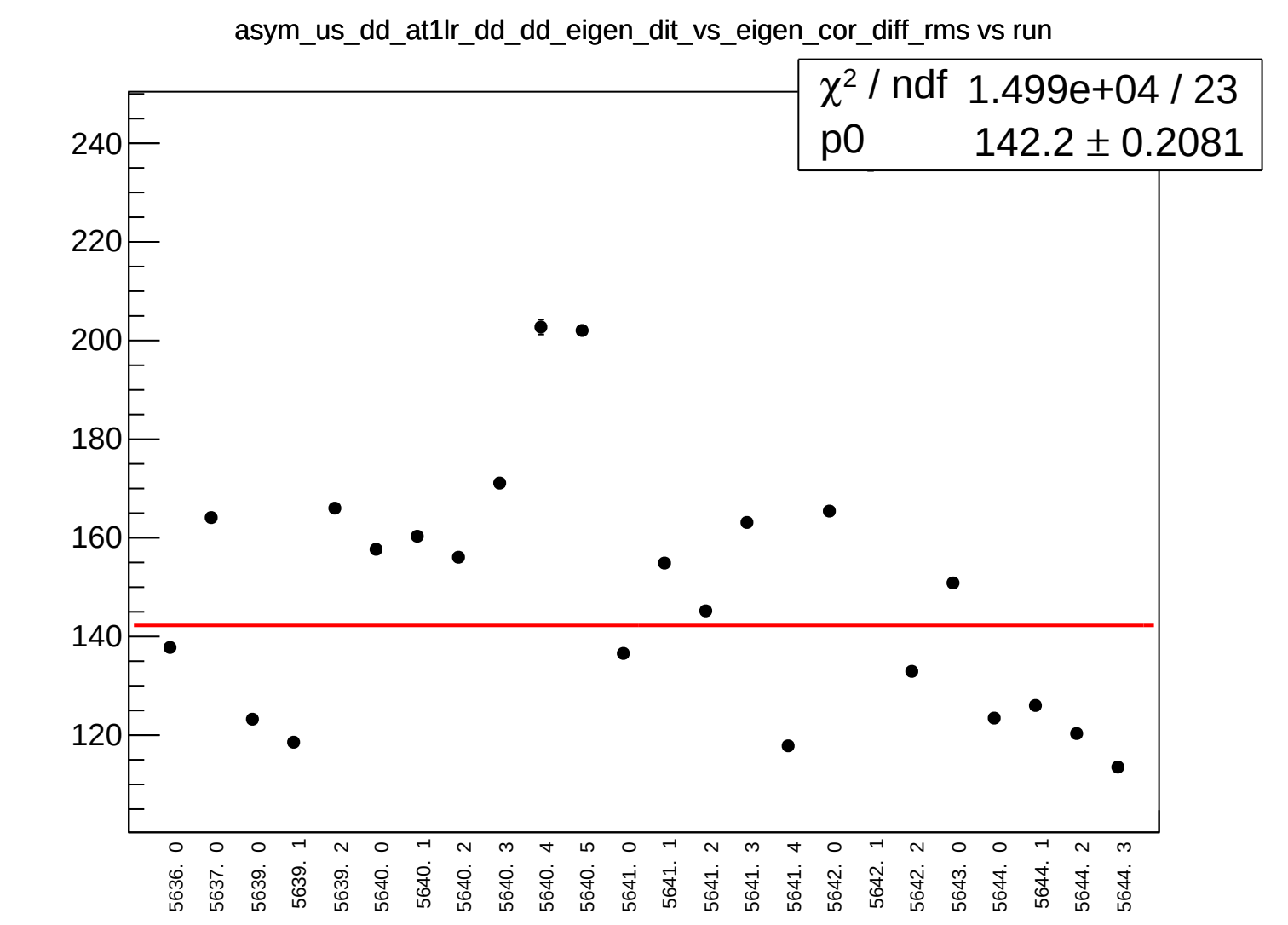

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 20.39 / 23
p0 0.1658 ± 0.2943
6
4
2
0
−2
−4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

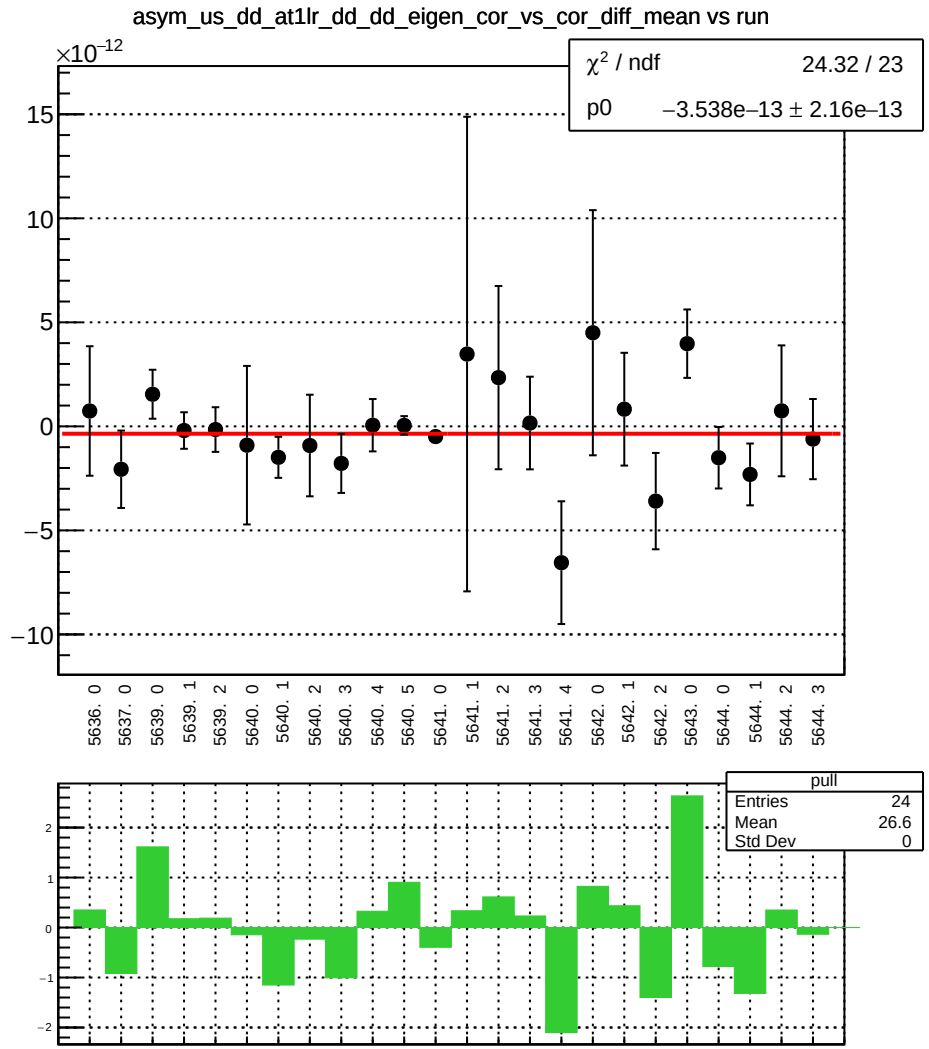

pull
Entries 24
Mean −6.025
Std Dev 5.922
2
1.5
1
0.5
0
−0.5
−1
−1.5

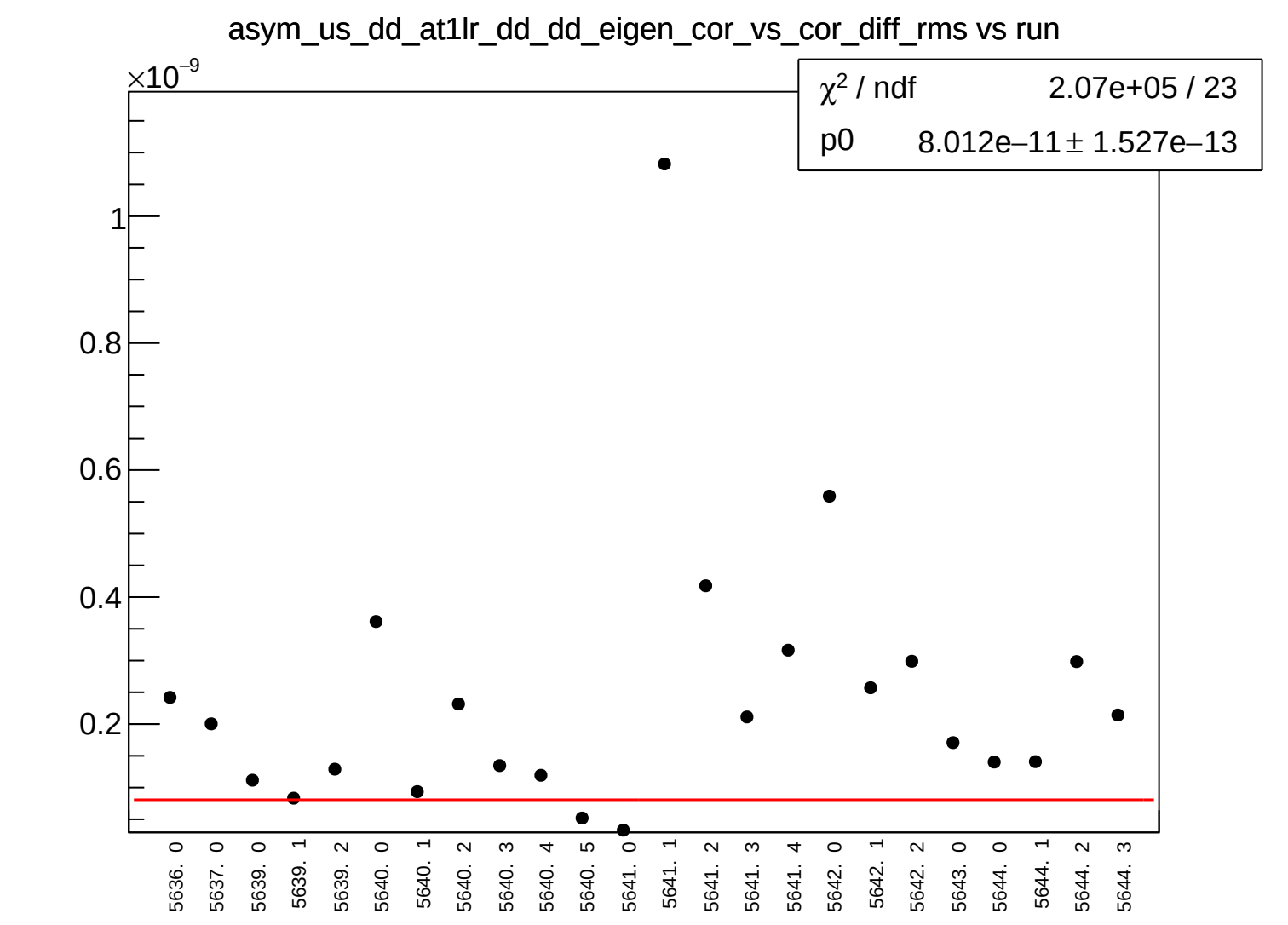

pull1D
Entries 24
Mean 0.03291
Std Dev 0.9211
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

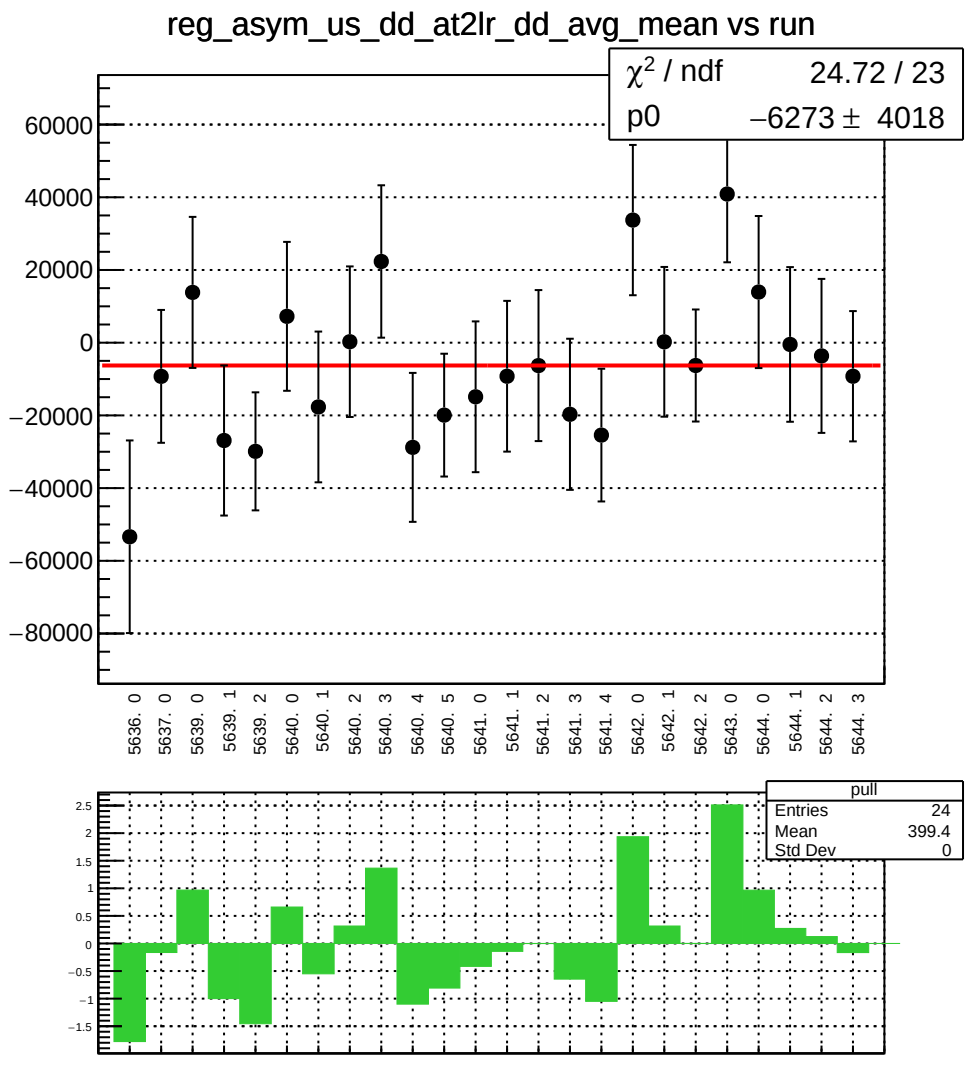

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.499e+04 / 23
p0 142.2 ± 0.2081
240
220
200
180
160
140
120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

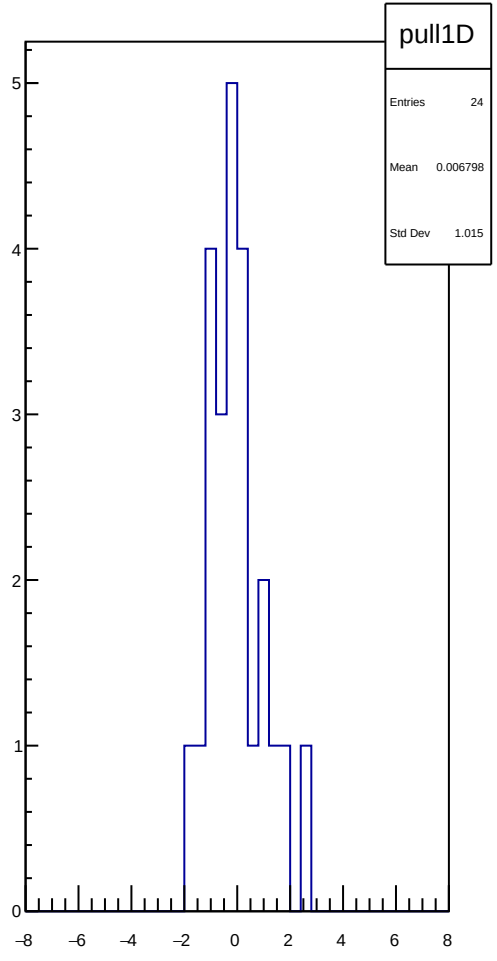

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 20.39 / 23
p0 0.1658 ± 0.2943
6
4
2
0
−2
−4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −6.025
Std Dev 5.922
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.03291
Std Dev 0.9211
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

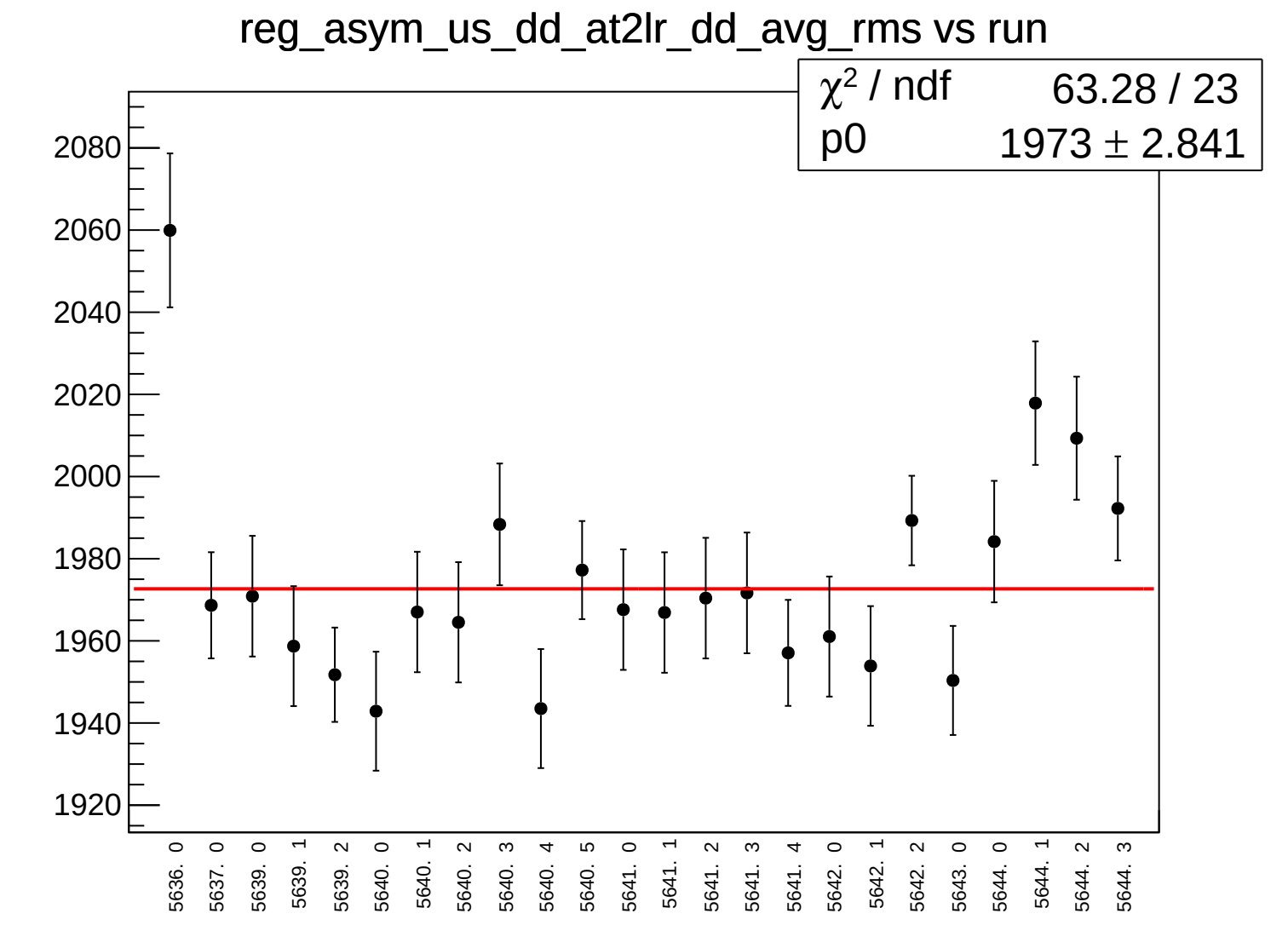

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.499e+04 / 23
p0 142.2 ± 0.2081
240
220
200
180
160
140
120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 24.32 / 23
p0 −3.538e−13 ± 2.16e−13
15
10
5
0
−5
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 26.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 24
Mean −0.02488
Std Dev 1.006
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.07e+05 / 23
p0 8.012e−11 ± 1.527e−13
1
0.8
0.6
0.4
0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 24.72 / 23
p0 −6273 ± 4018
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 399.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean 0.006798
Std Dev 1.015
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 63.28 / 23
p0 1973 ± 2.841
2080
2060
2040
2020
2000
1980
1960
1940
1920
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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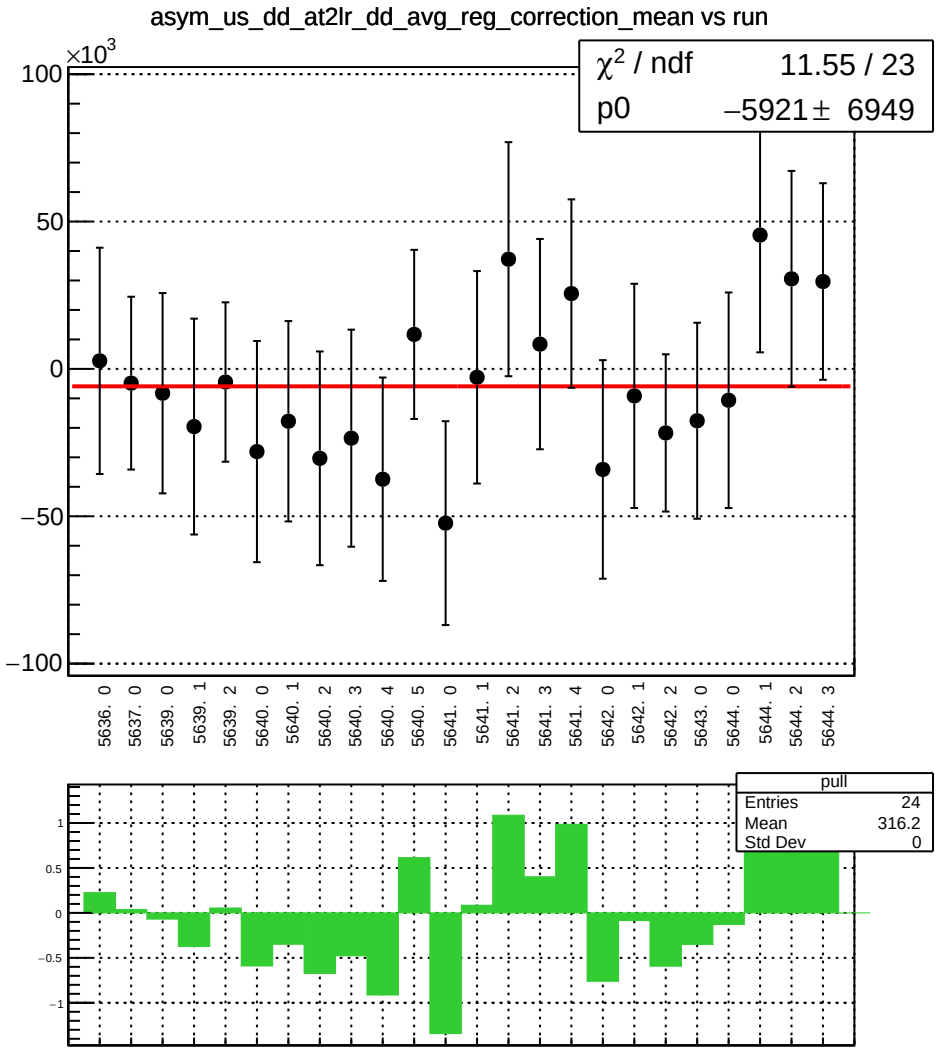
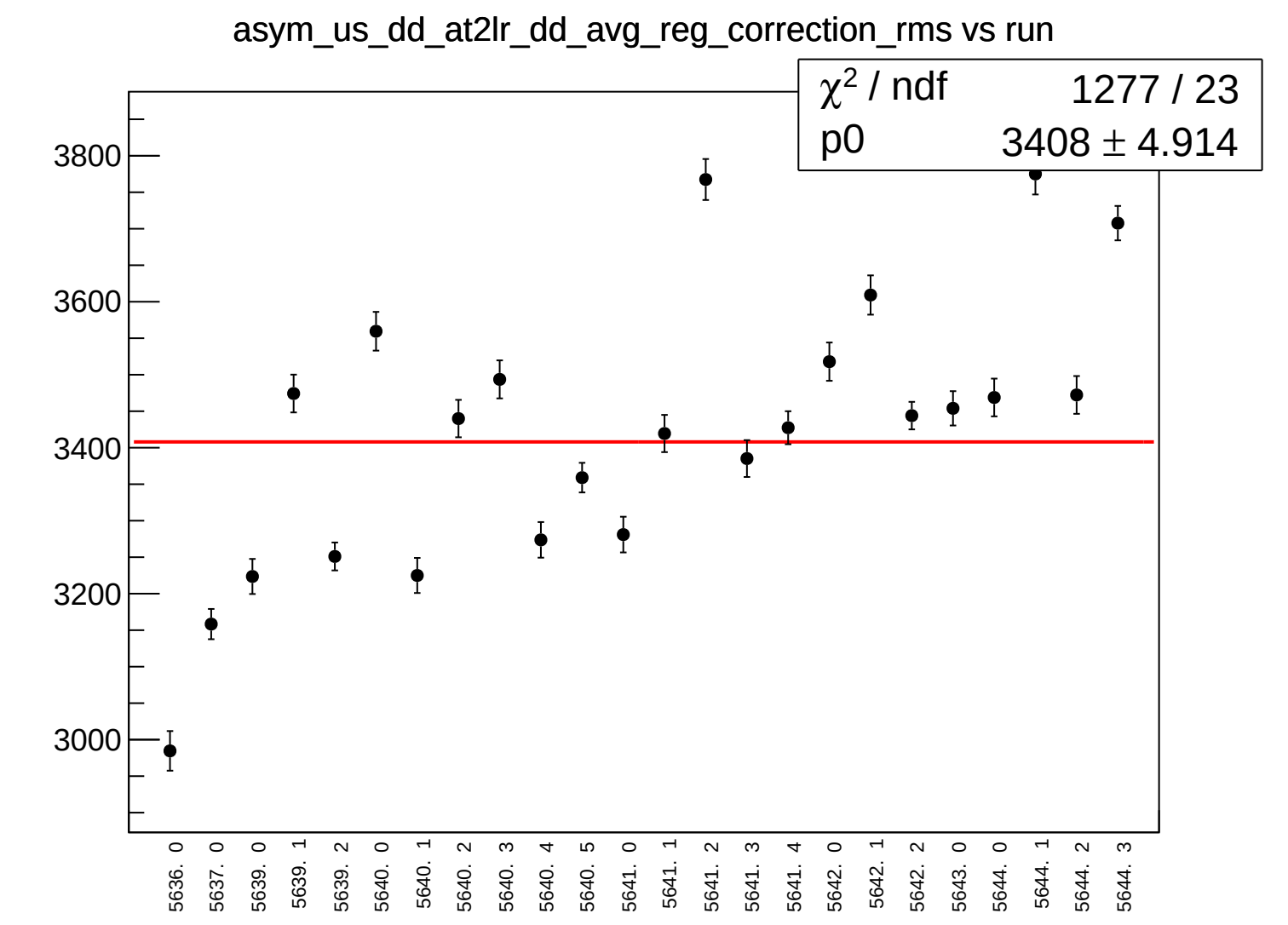
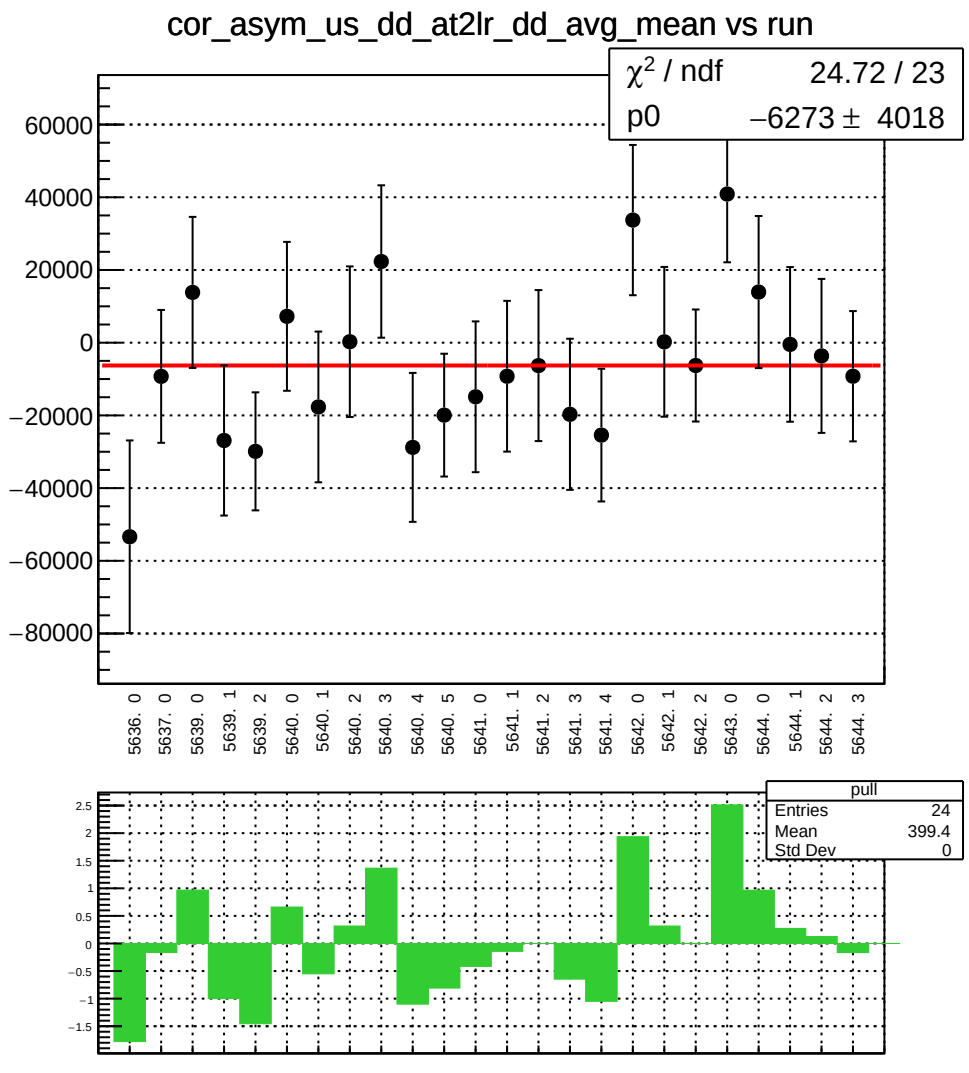
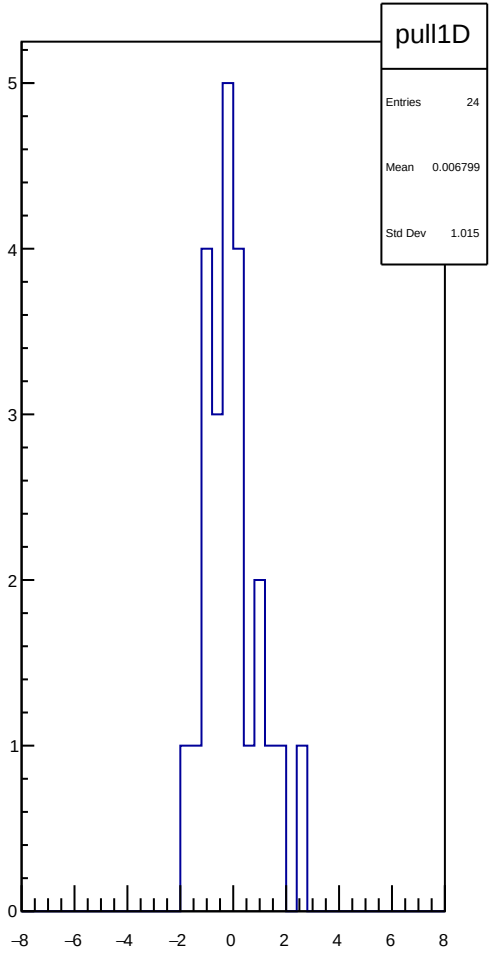
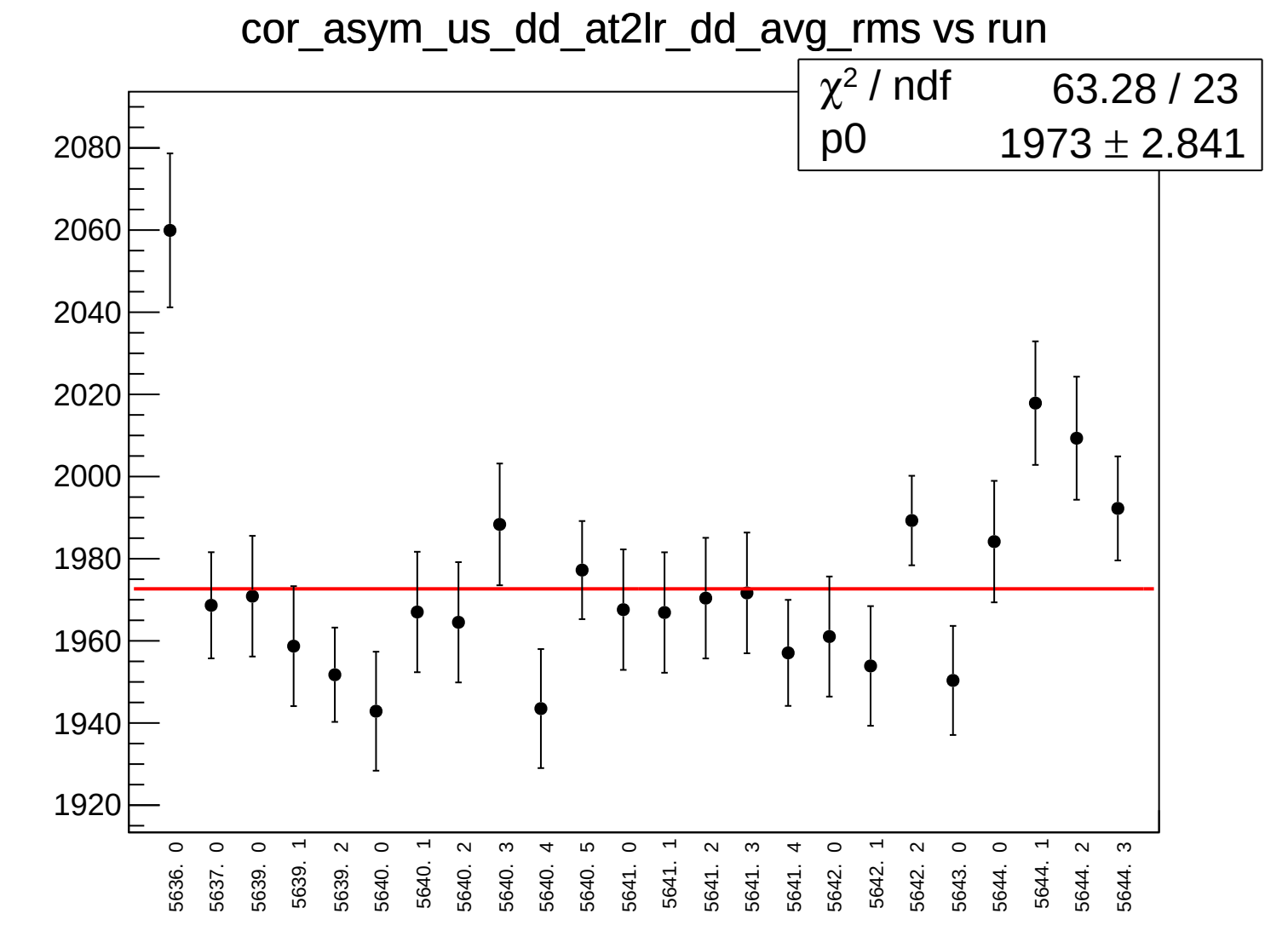
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 11.55 / 23
p0 −5921 ± 6949
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 316.2
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.005829
Std Dev 0.6938
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 1277 / 23
p0 3408 ± 4.914
3800
3600
3400
3200
3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 24.72 / 23
p0 −6273 ± 4018
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 399.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean 0.006799
Std Dev 1.015
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 63.28 / 23
p0 1973 ± 2.841
2080
2060
2040
2020
2000
1980
1960
1940
1920
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5642. 0
5642. 1
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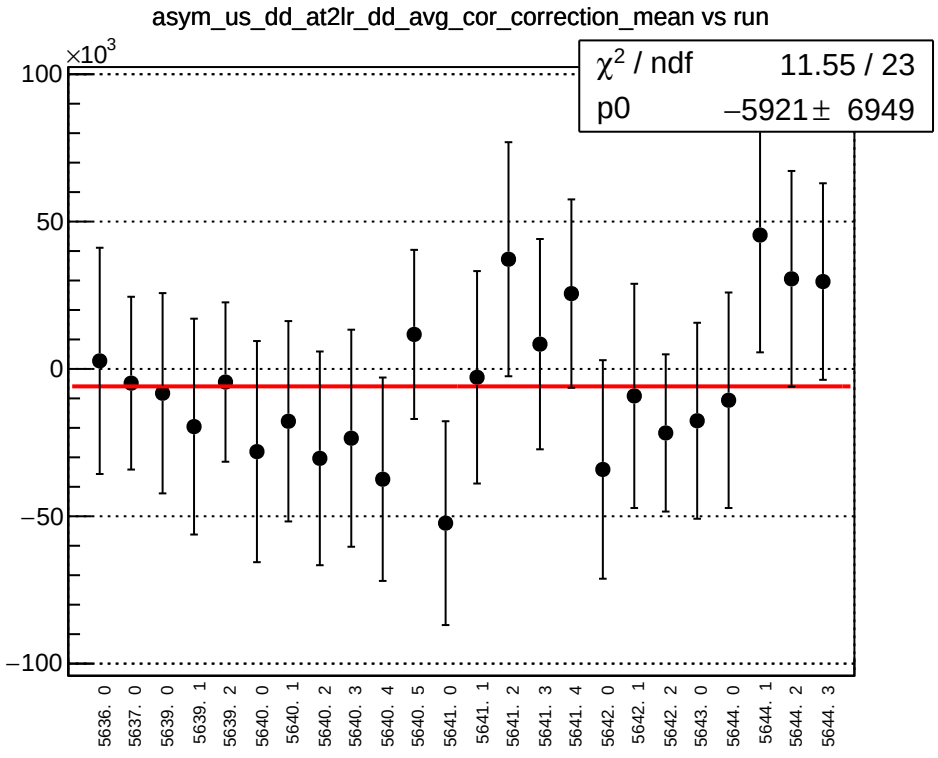
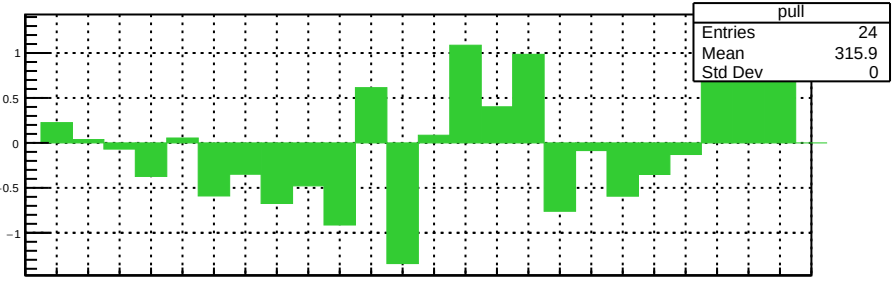
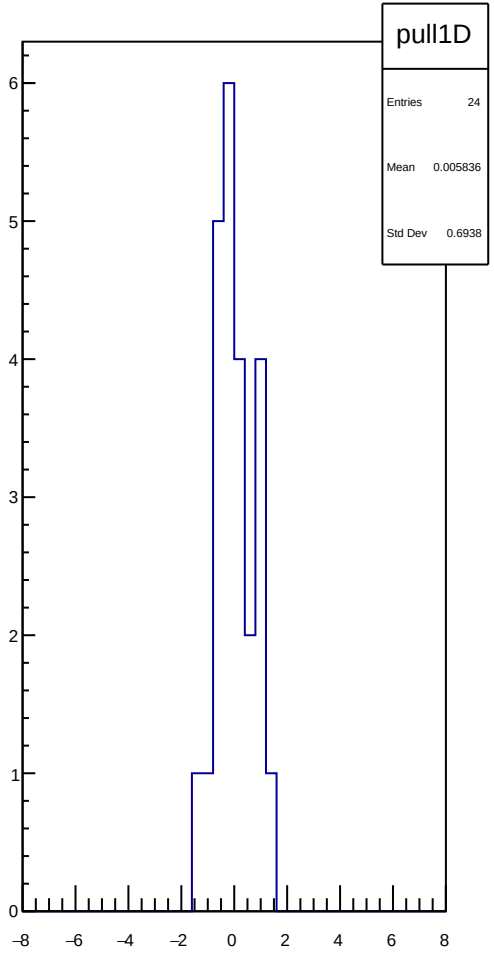
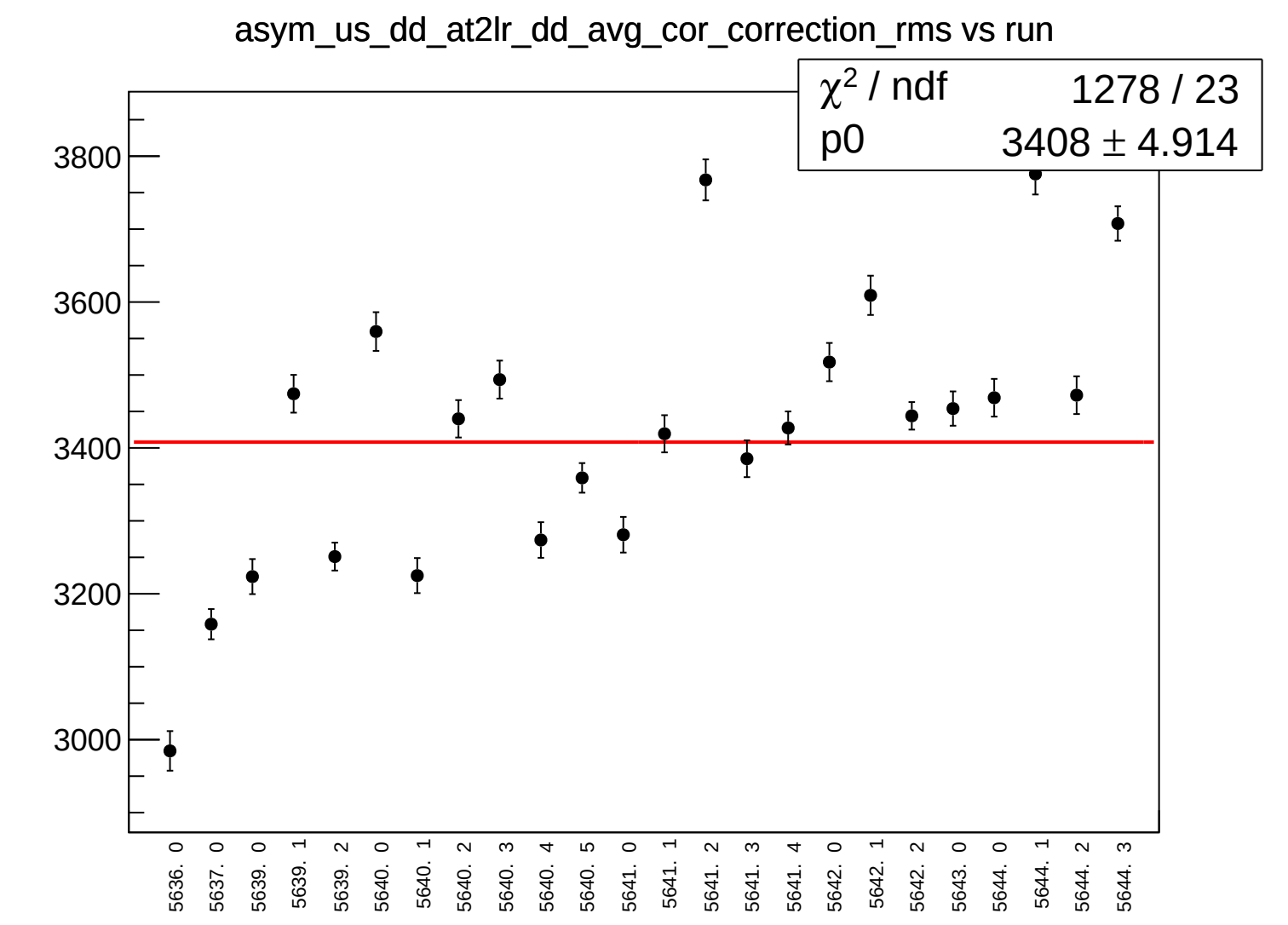
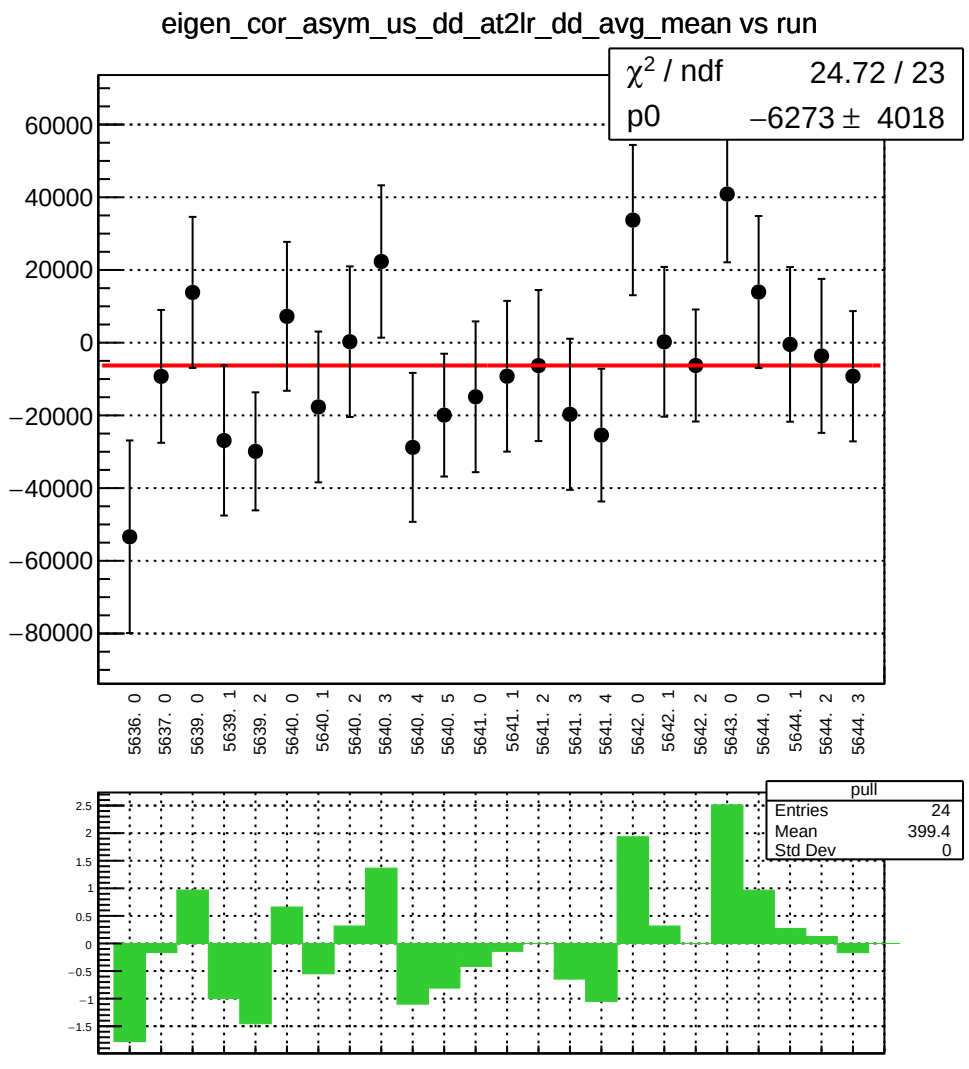
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

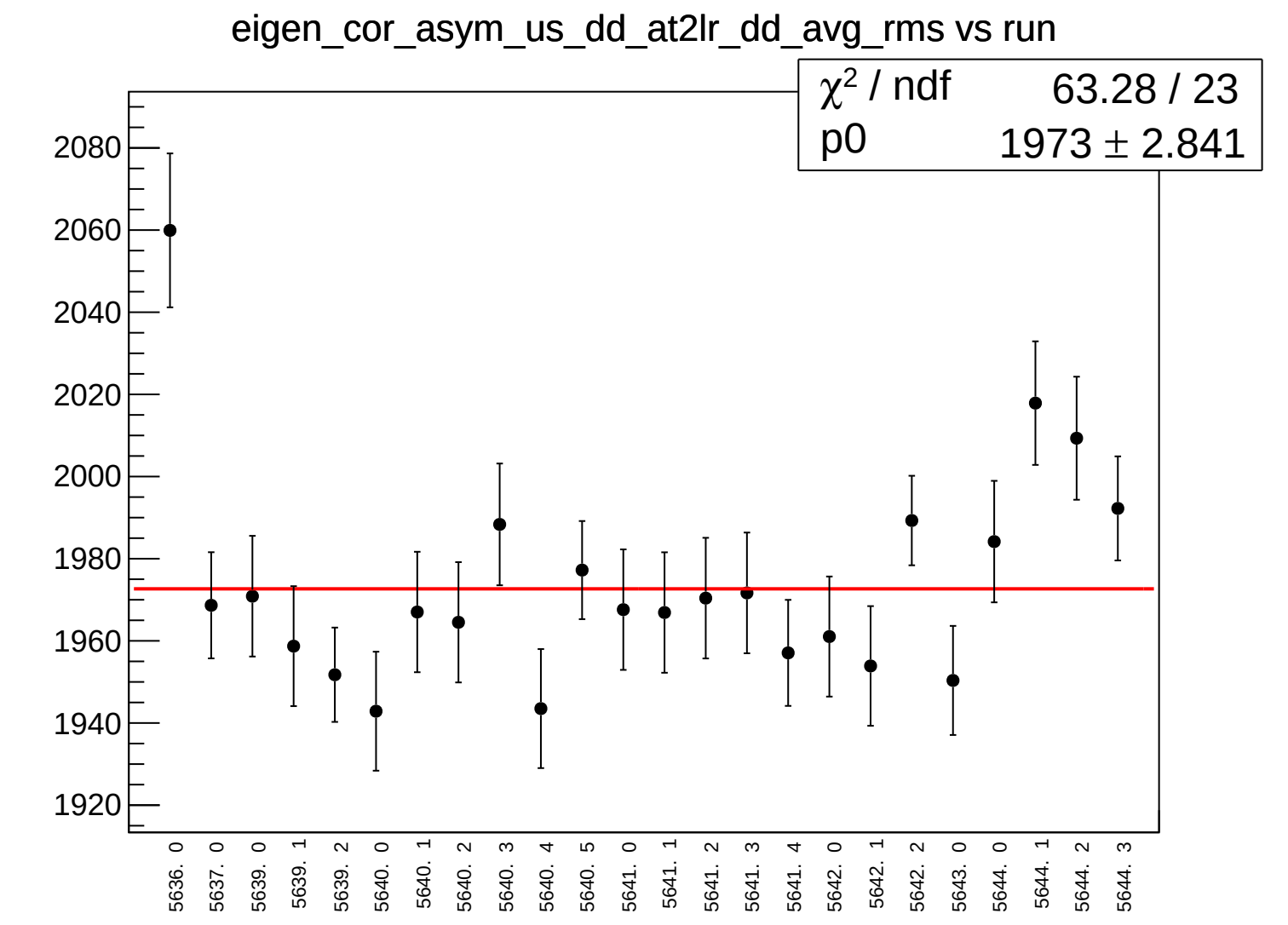

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 11.55 / 23
p0 −5921 ± 6949
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

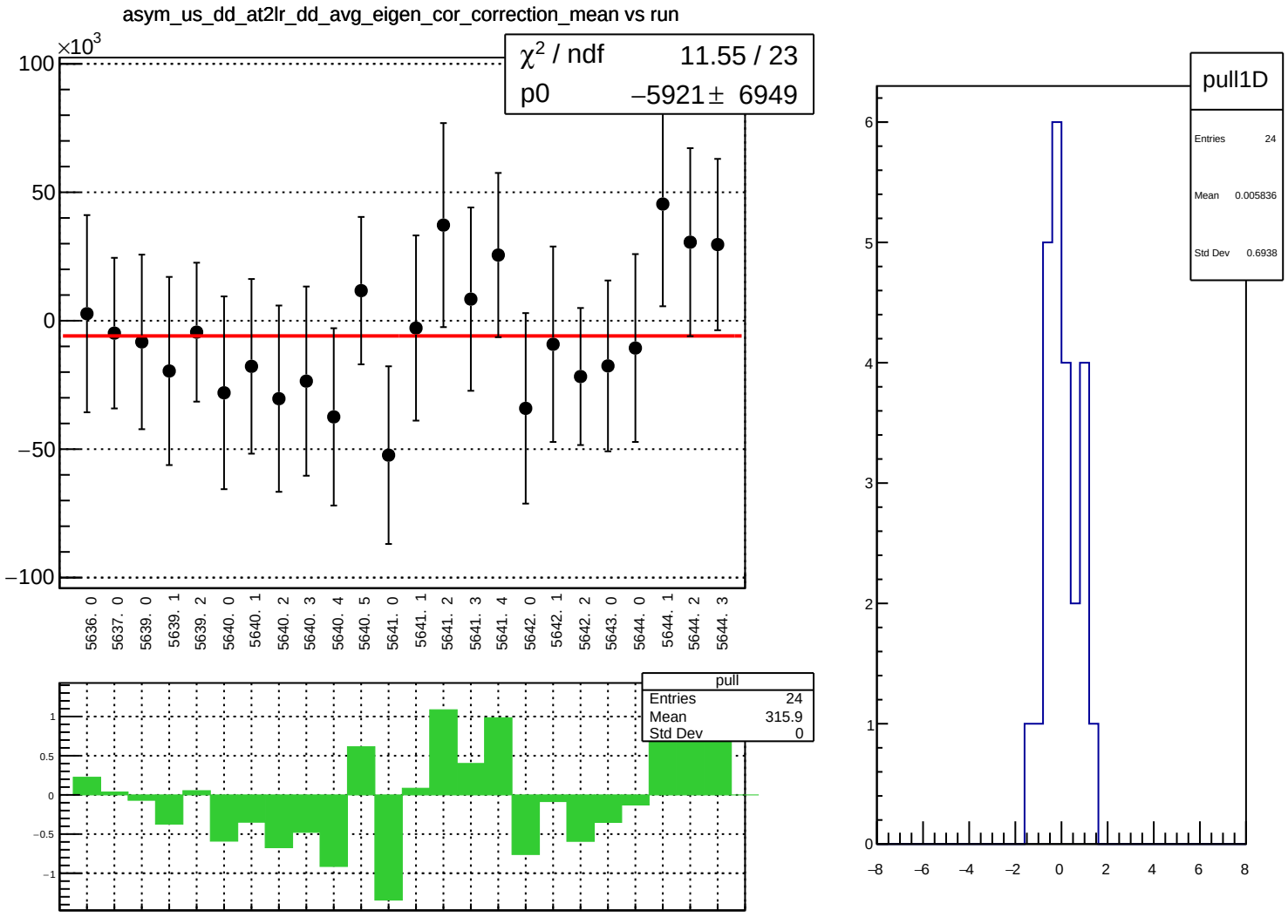

pull
Entries 24
Mean 315.9
Std Dev 0
1
0.5
0
−0.5
−1

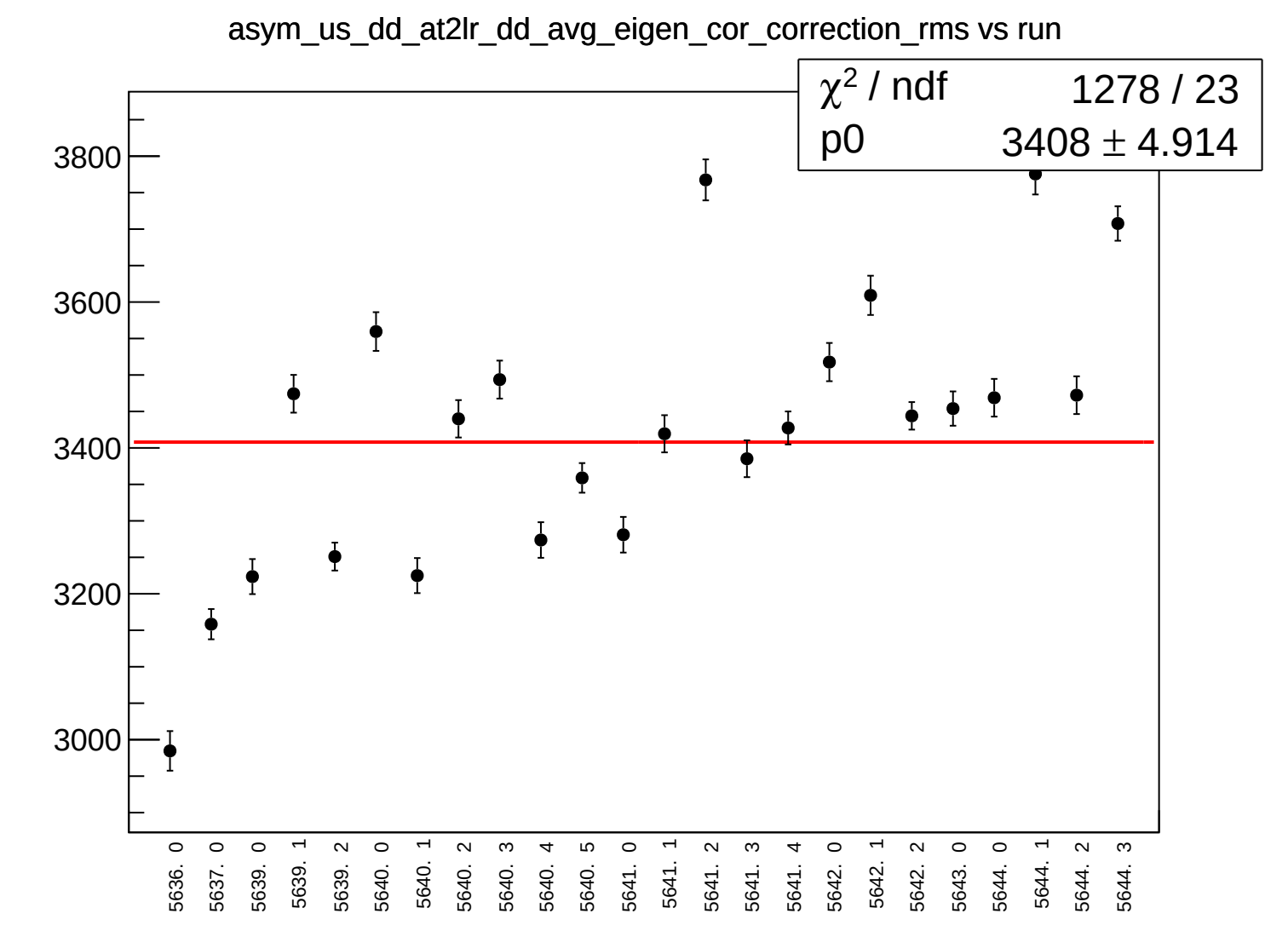

pull1D
Entries 24
Mean 0.005836
Std Dev 0.6938
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

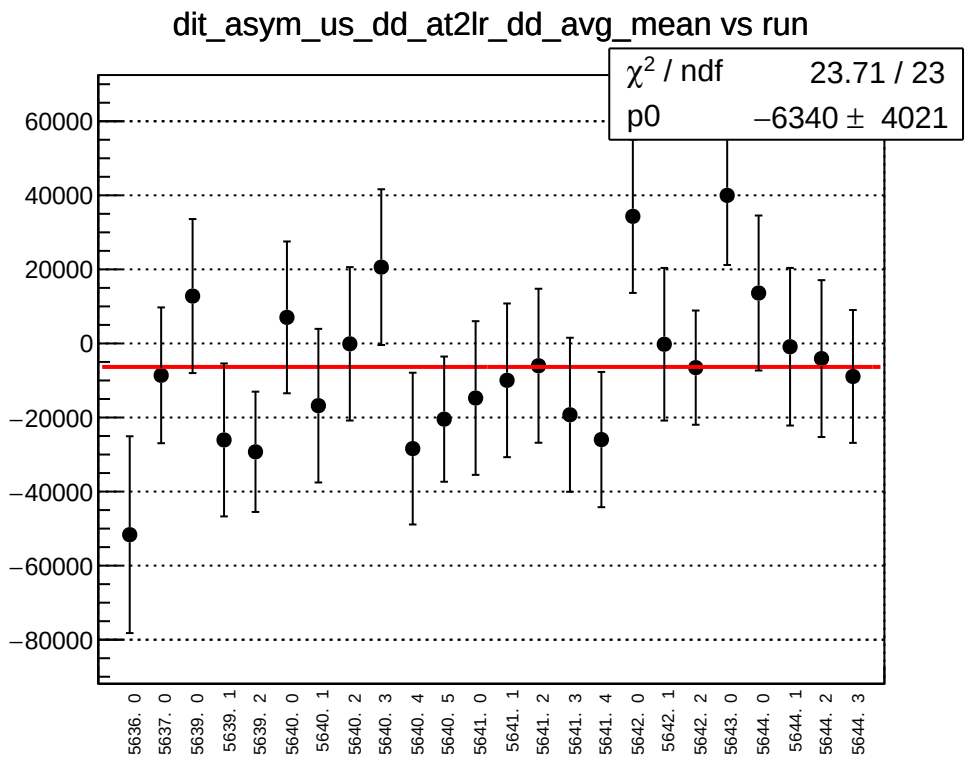

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 1278 / 23
p0 3408 ± 4.914
3800
3600
3400
3200
3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

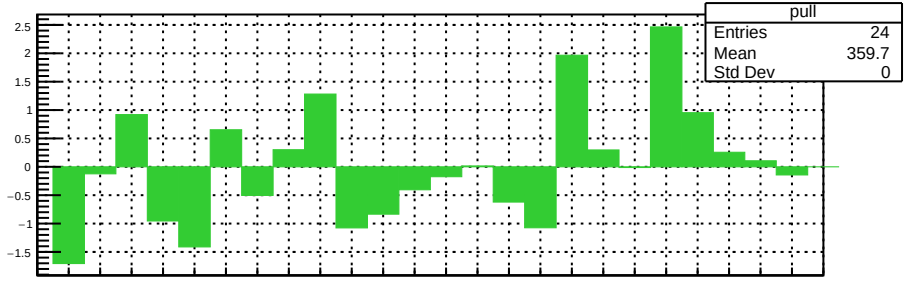

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 24.72 / 23
p0 −6273 ± 4018
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 399.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.006799
Std Dev 1.015
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

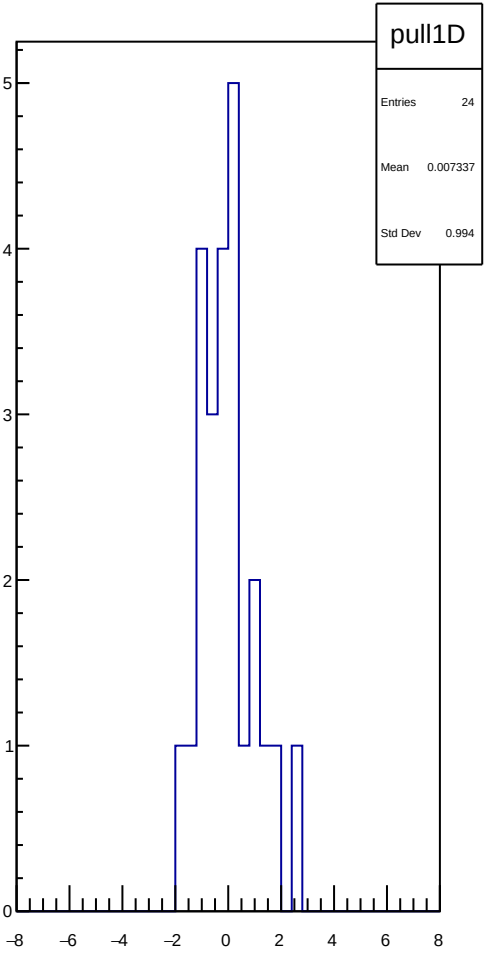

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 63.28 / 23
p0 1973 ± 2.841
2080
2060
2040
2020
2000
1980
1960
1940
1920
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

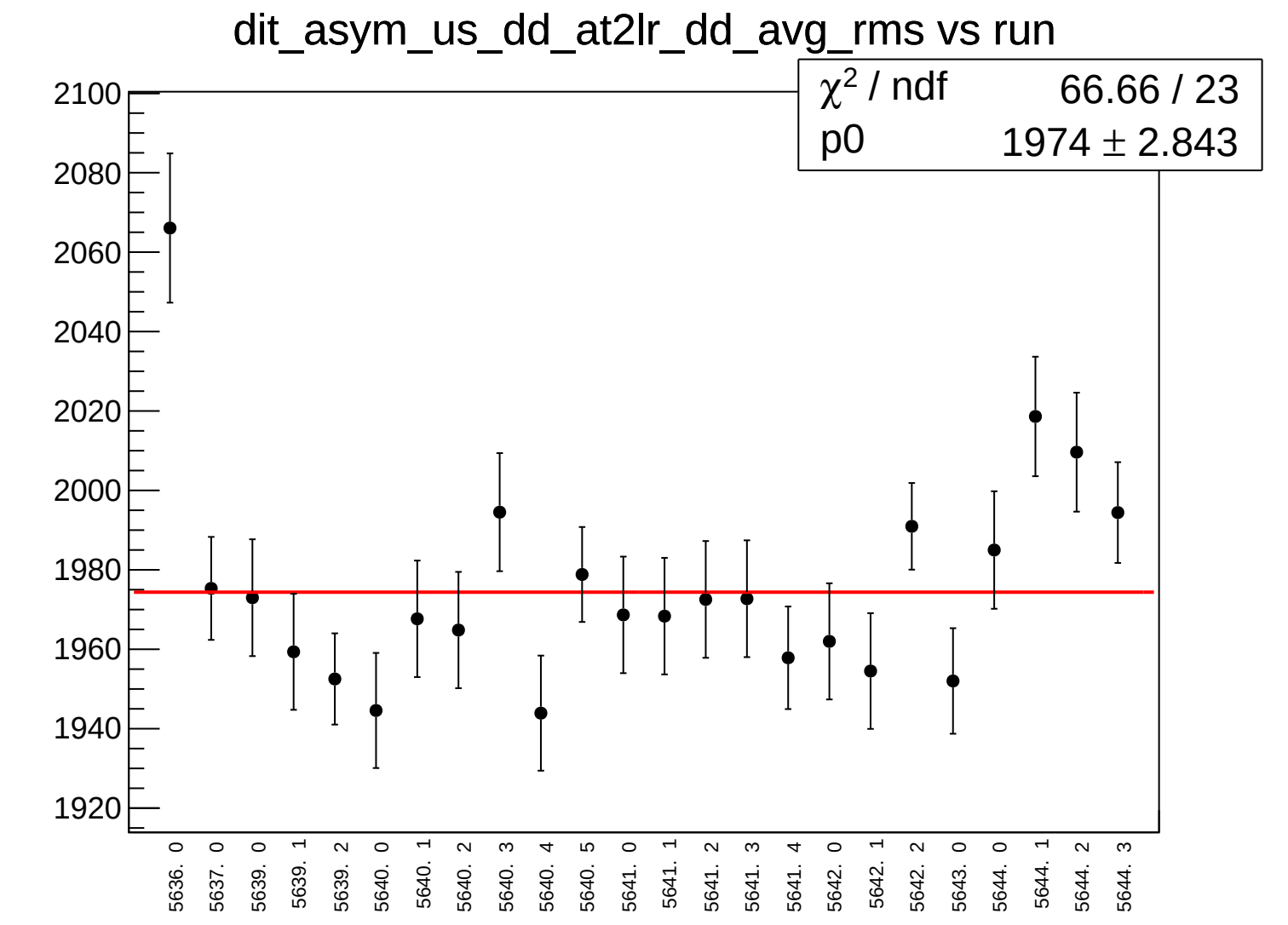

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 11.55 / 23
p0 −5921 ± 6949
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 315.9
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.005836
Std Dev 0.6938
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

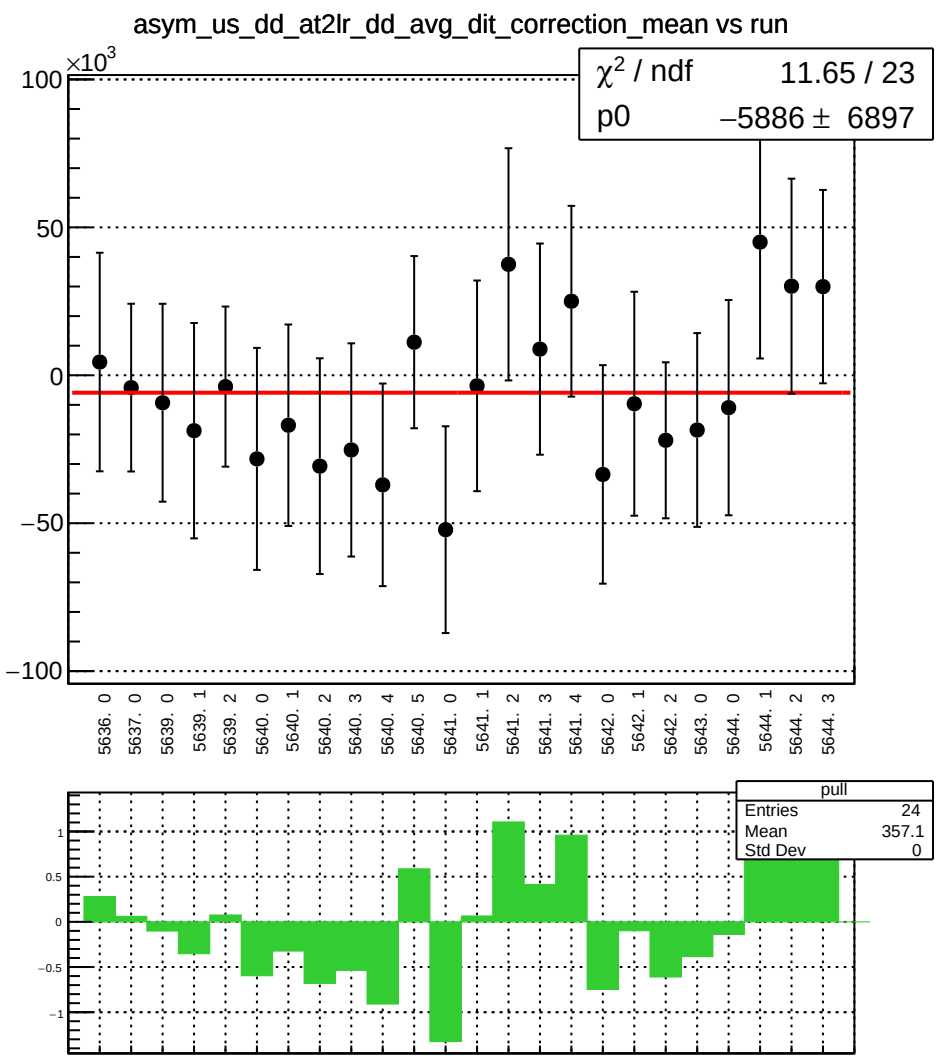

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1278 / 23
p0 3408 ± 4.914
3800
3600
3400
3200
3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

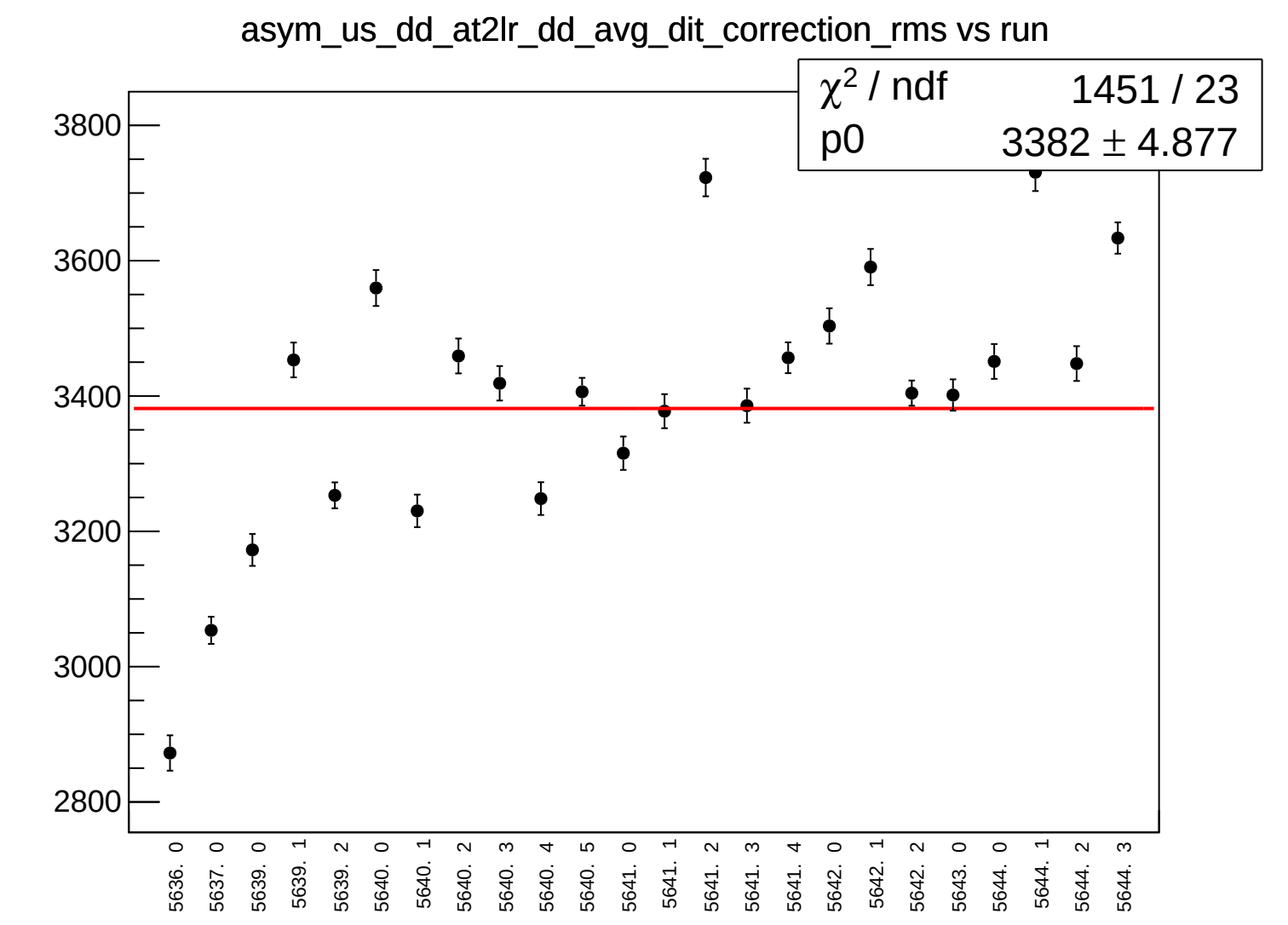

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 23.71 / 23
p0 −6340 ± 4021
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

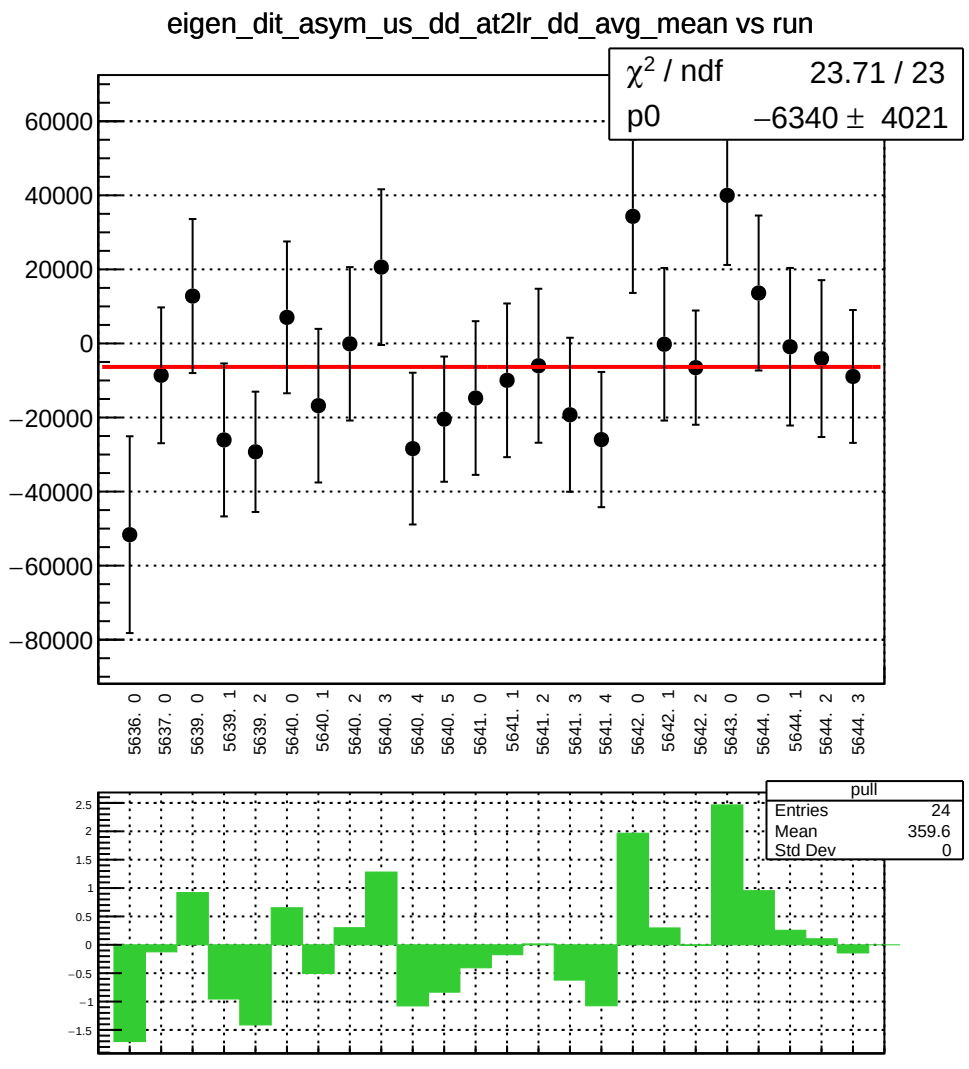

pull
Entries 24
Mean 359.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

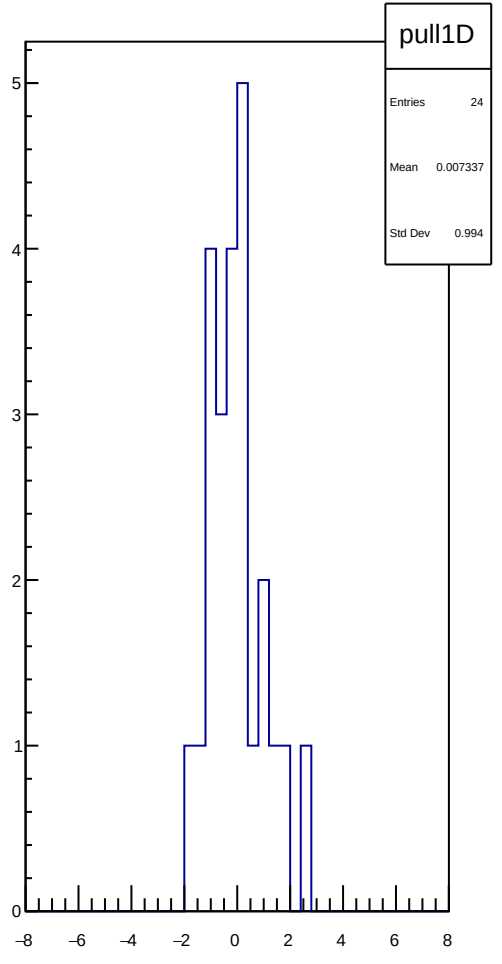

pull1D
Entries 24
Mean 0.007337
Std Dev 0.994
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

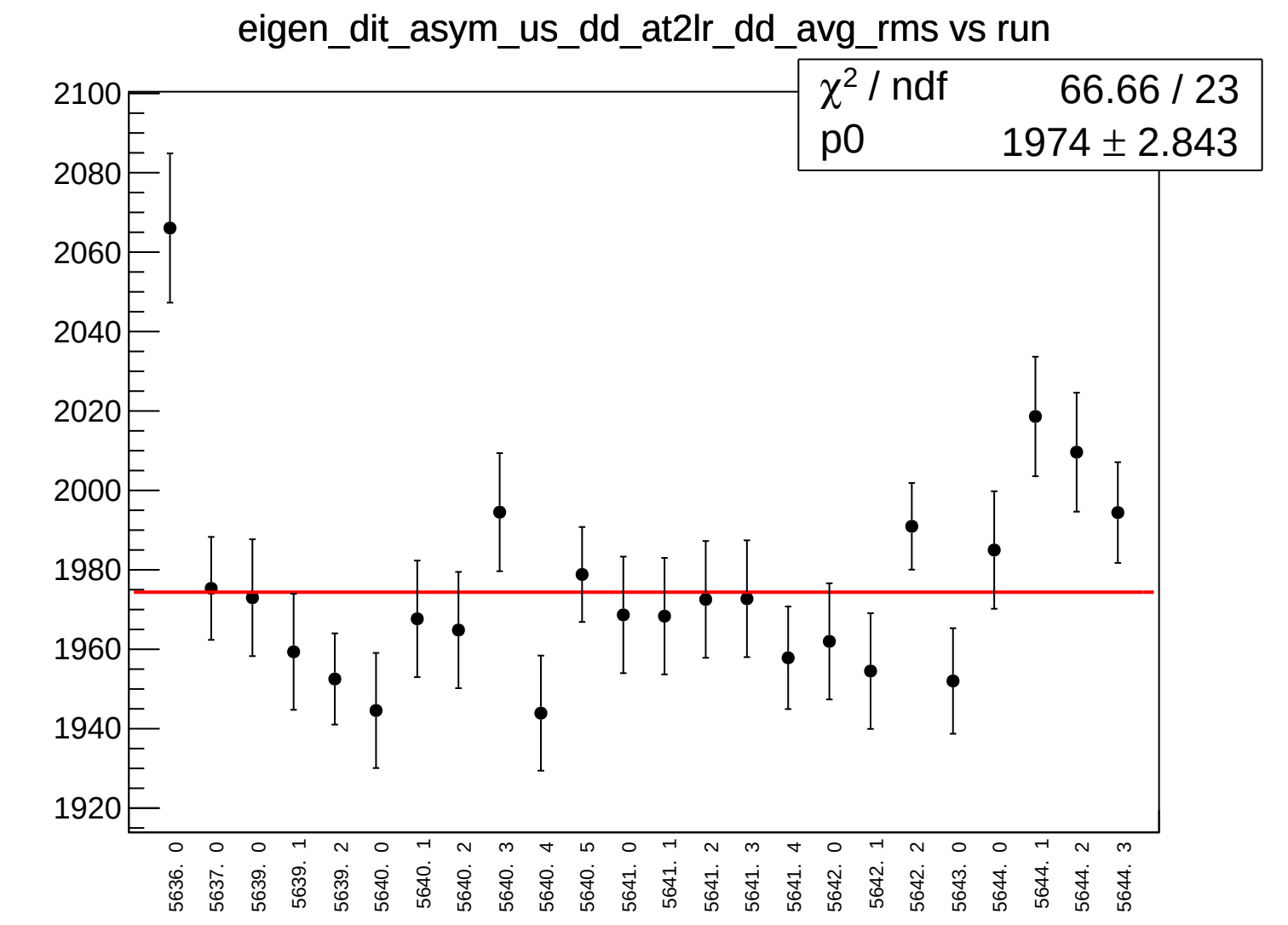

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 66.66 / 23
p0 1974 ± 2.843
2100
2080
2060
2040
2020
2000
1980
1960
1940
1920
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

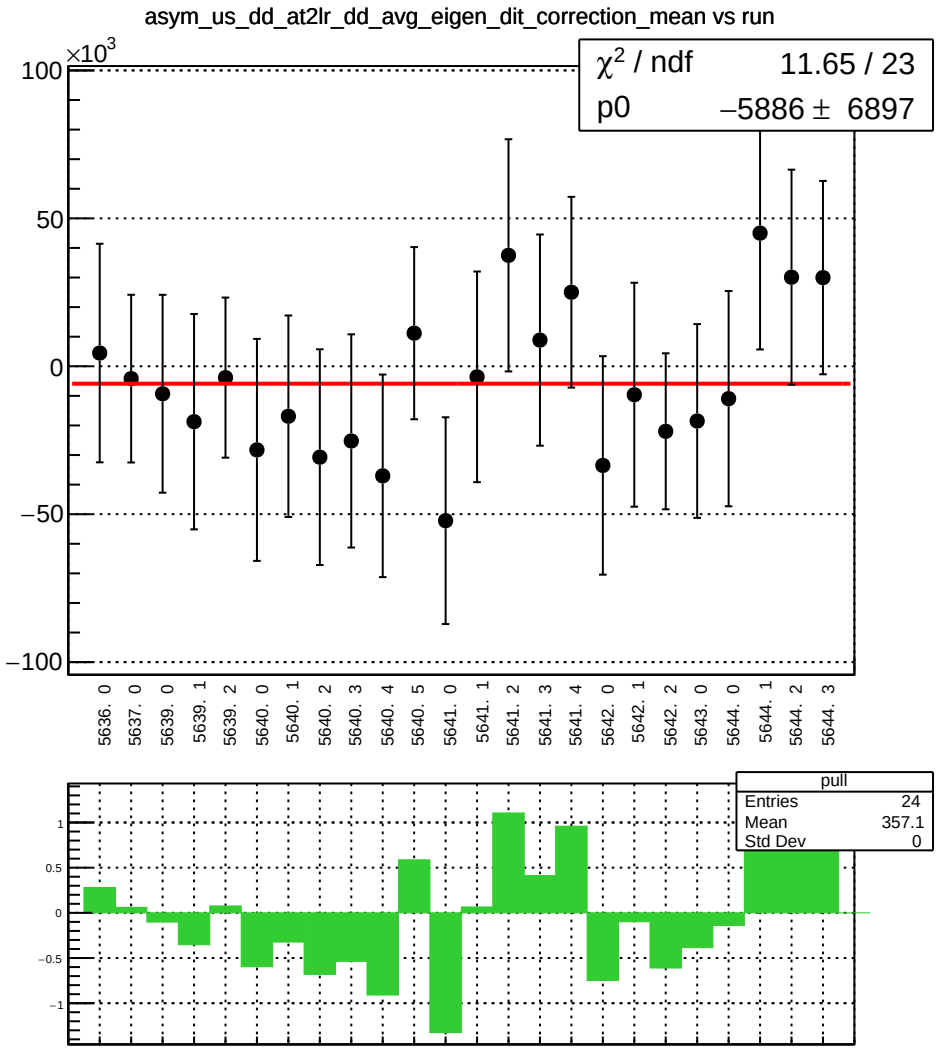

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 11.65 / 23
p0 −5886 ± 6897
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 357.1
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.005026
Std Dev 0.6966
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

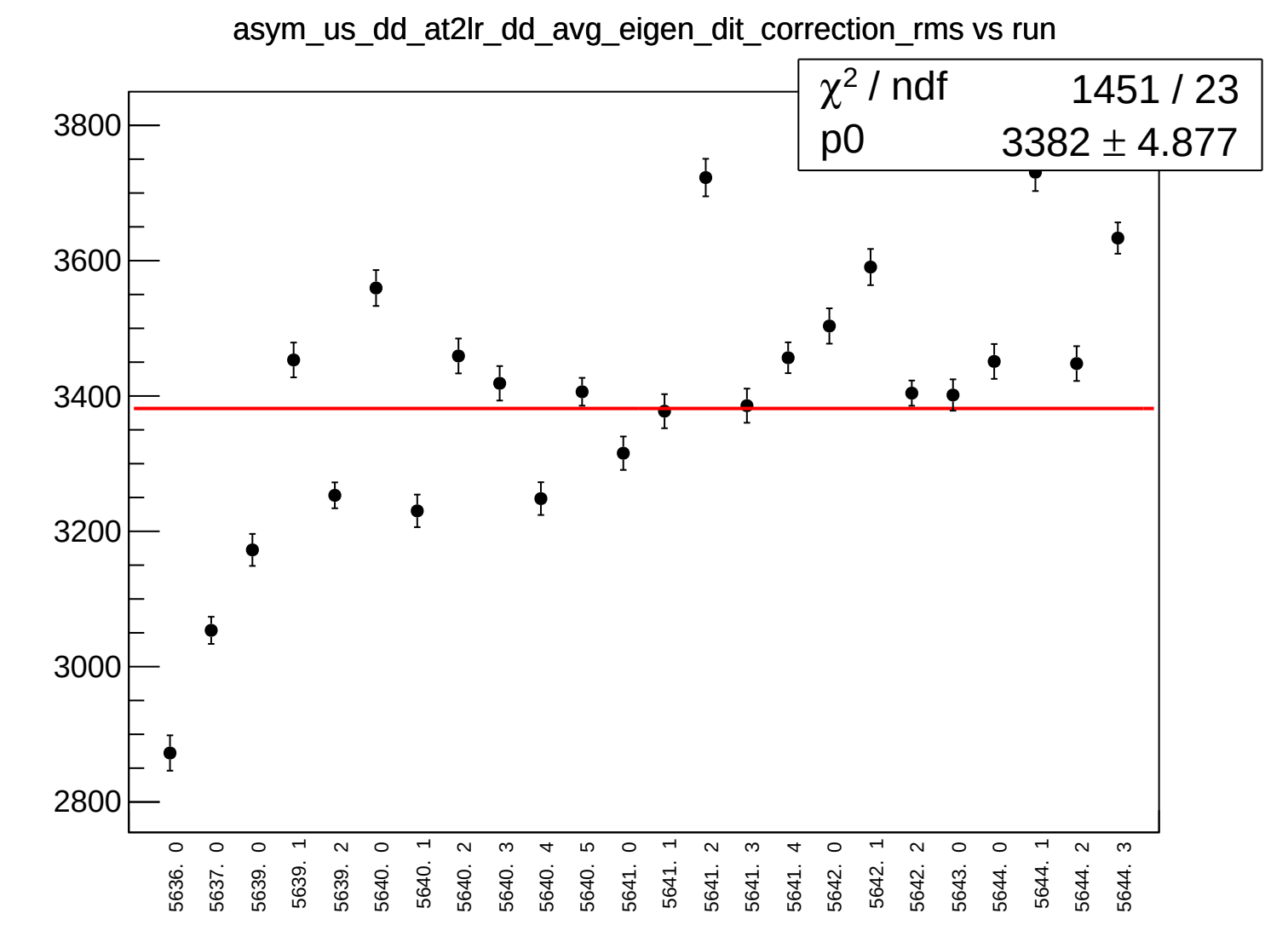

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 1451 / 23
p0 3382 ± 4.877
3800
3600
3400
3200
3000
2800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

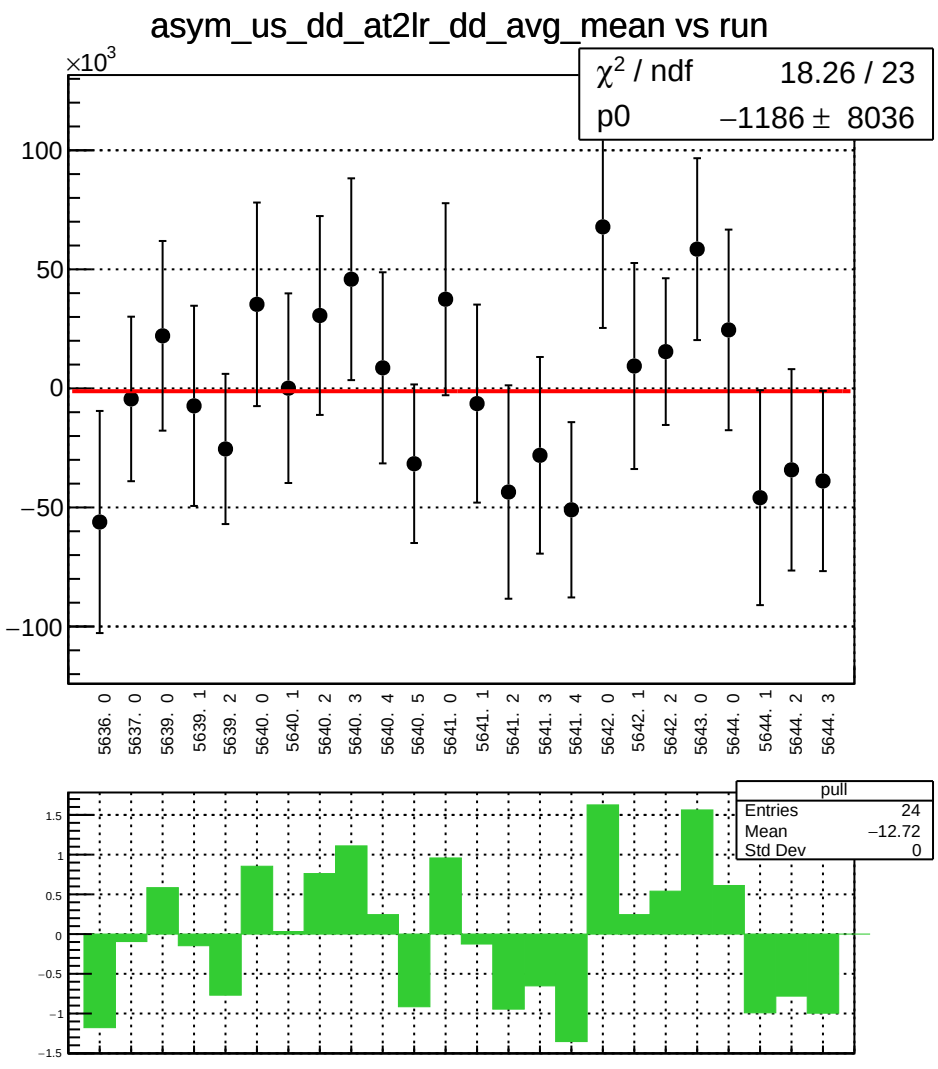

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 23.71 / 23
p0 −6340 ± 4021
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 359.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

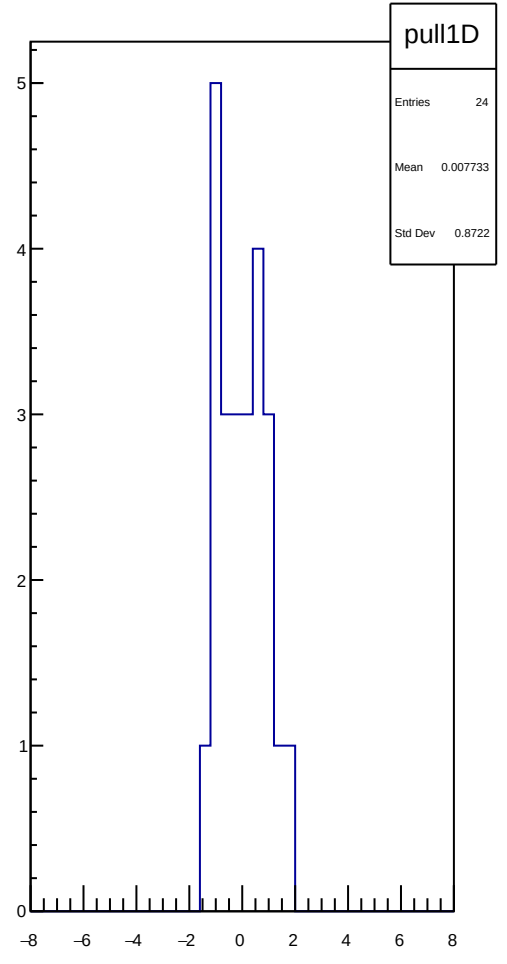

pull1D
Entries 24
Mean 0.007337
Std Dev 0.994
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

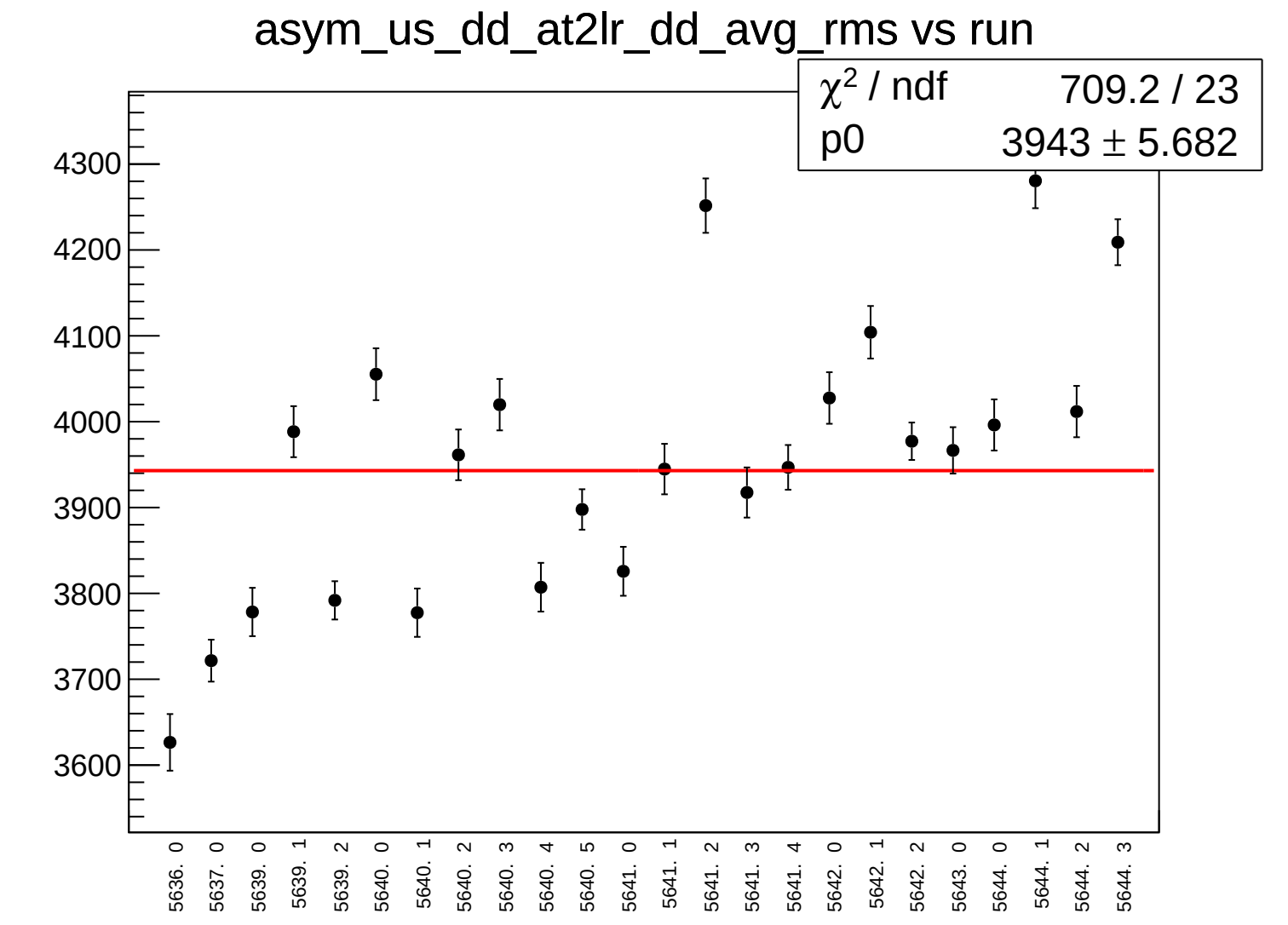

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 66.66 / 23
p0 1974 ± 2.843
2100
2080
2060
2040
2020
2000
1980
1960
1940
1920
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

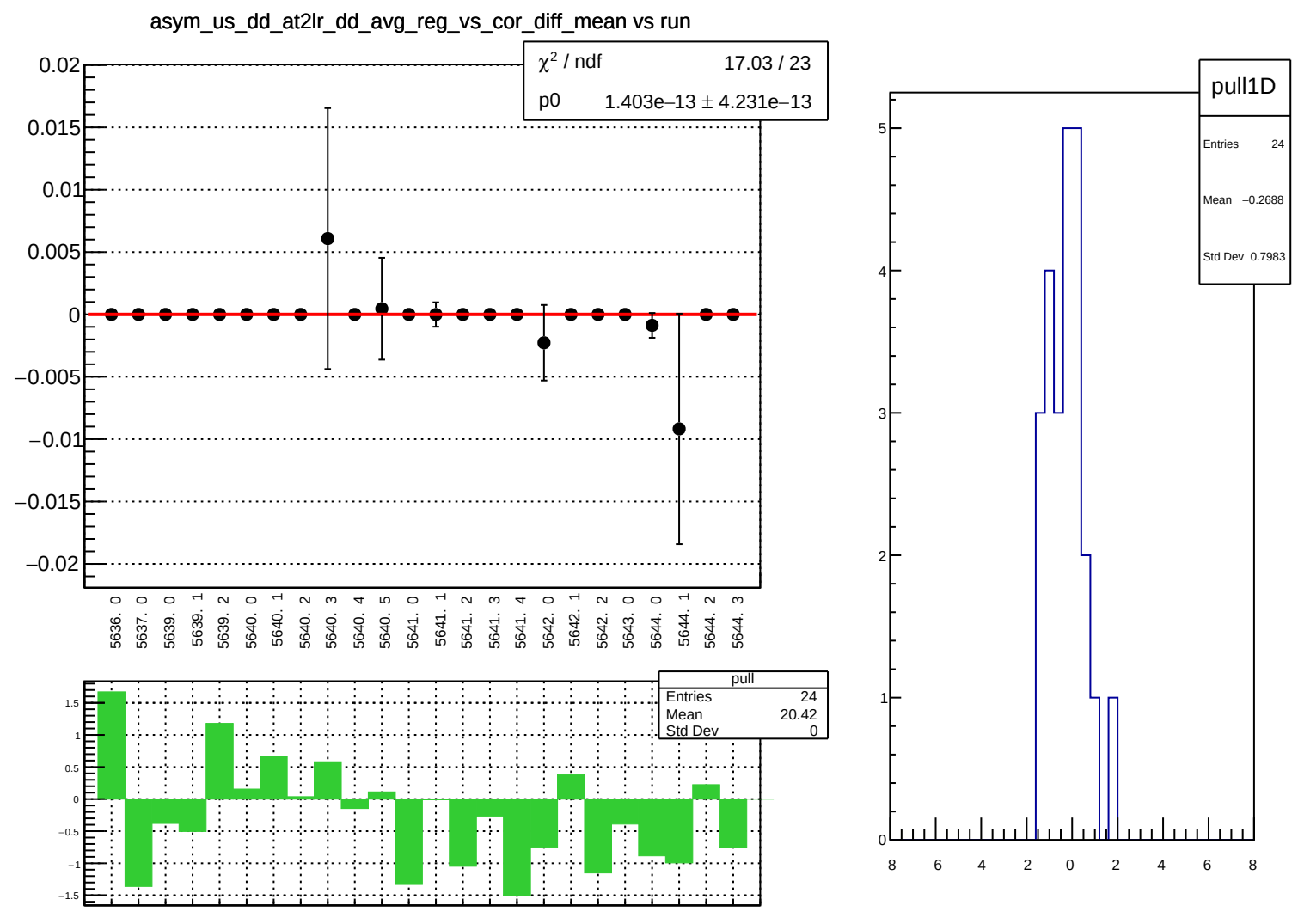

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 11.65 / 23
p0 −5886 ± 6897
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 357.1
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.005026
Std Dev 0.6966
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

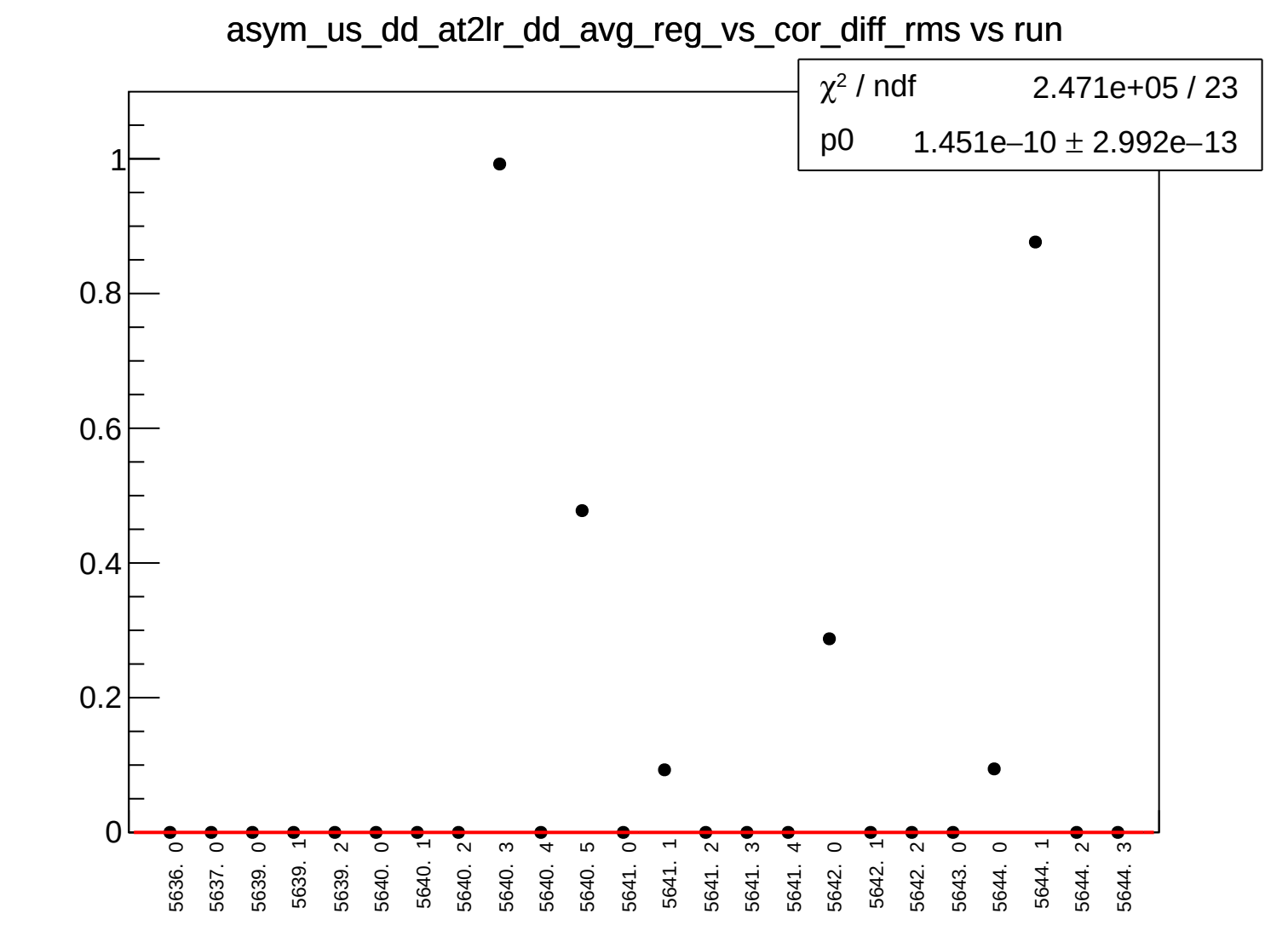

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1451 / 23
p0 3382 ± 4.877
3800
3600
3400
3200
3000
2800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

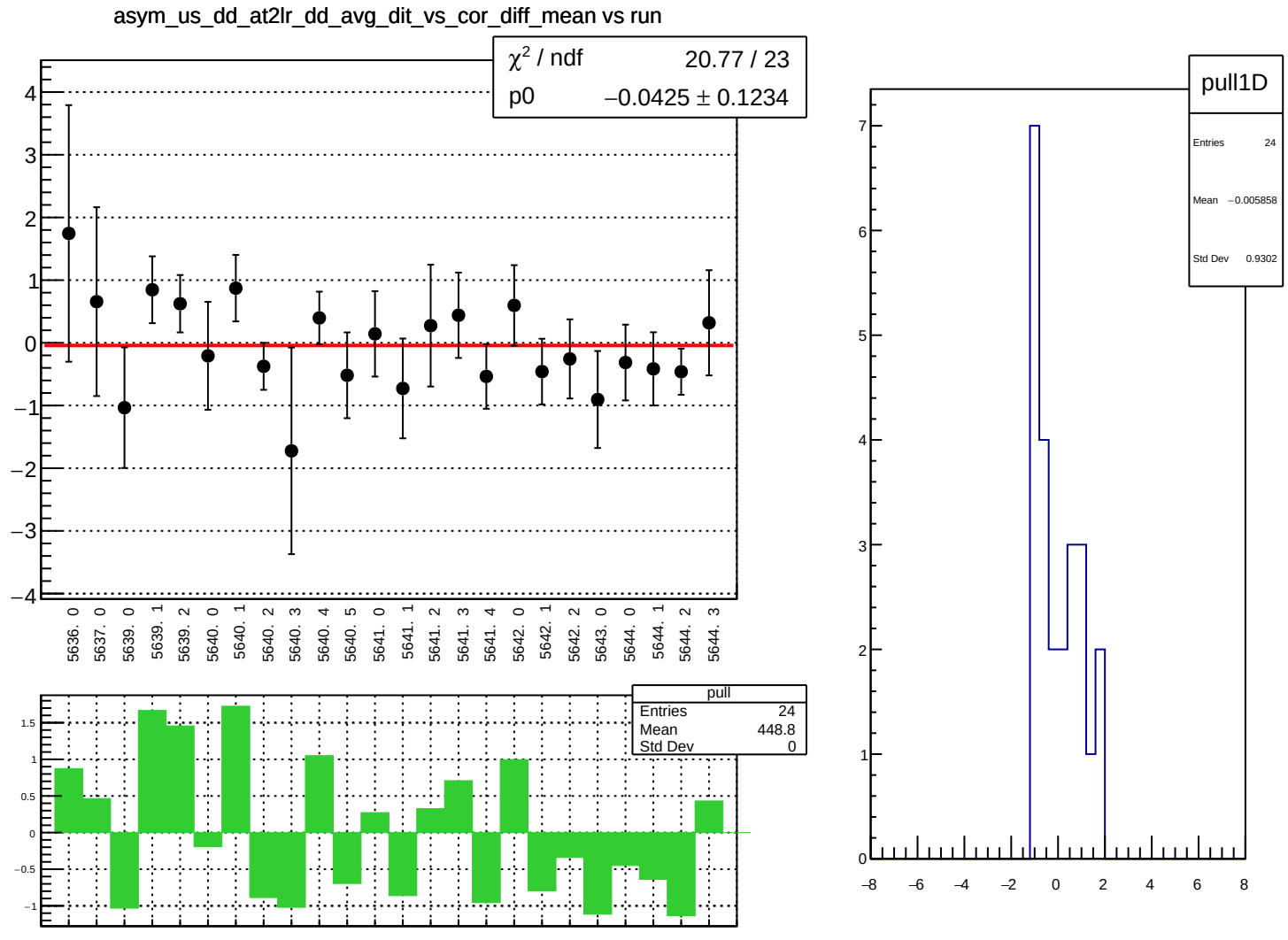

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 18.26 / 23
p0 −1186 ± 8036
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −12.72
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

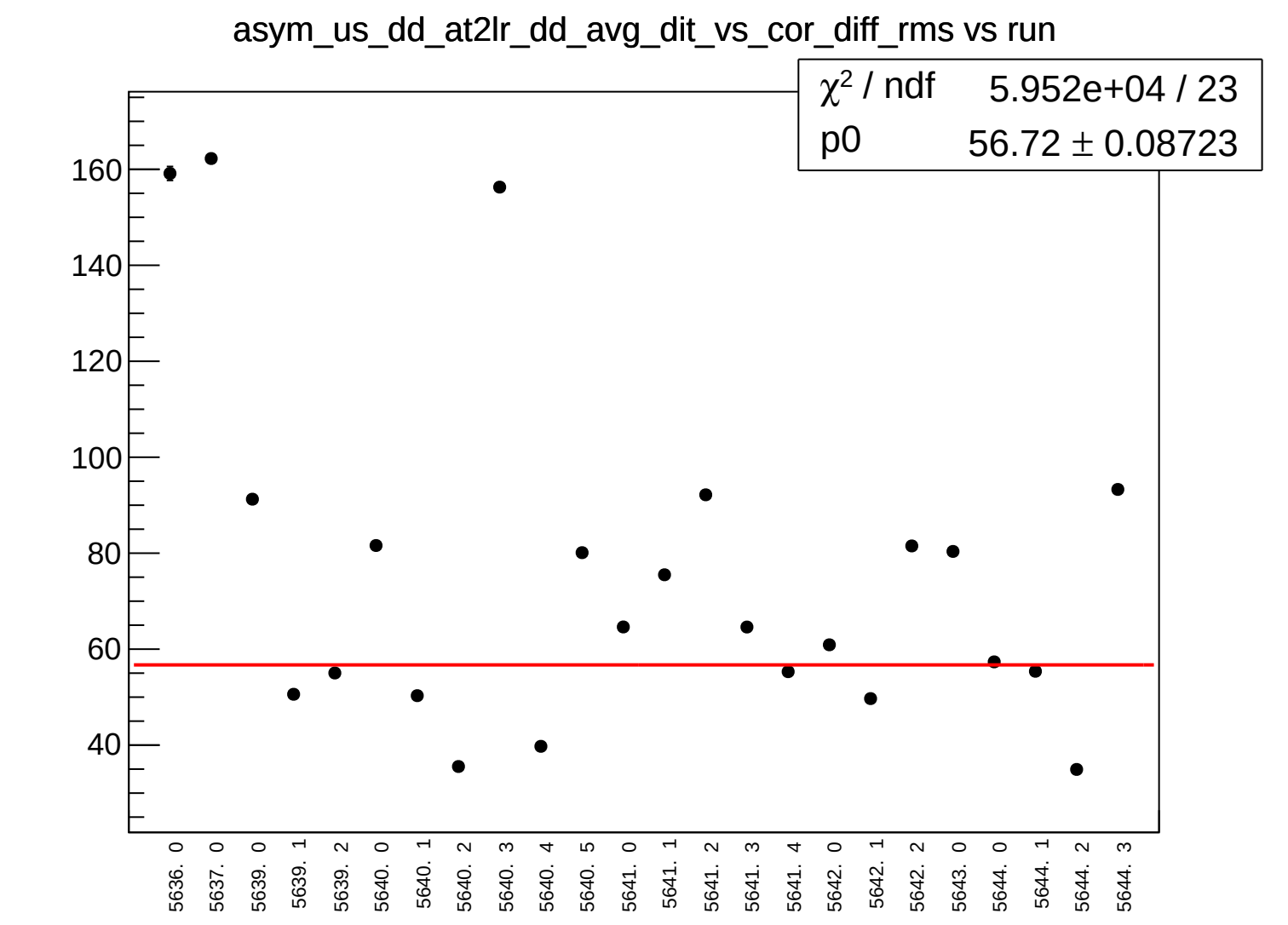

pull1D
Entries 24
Mean 0.007733
Std Dev 0.8722
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

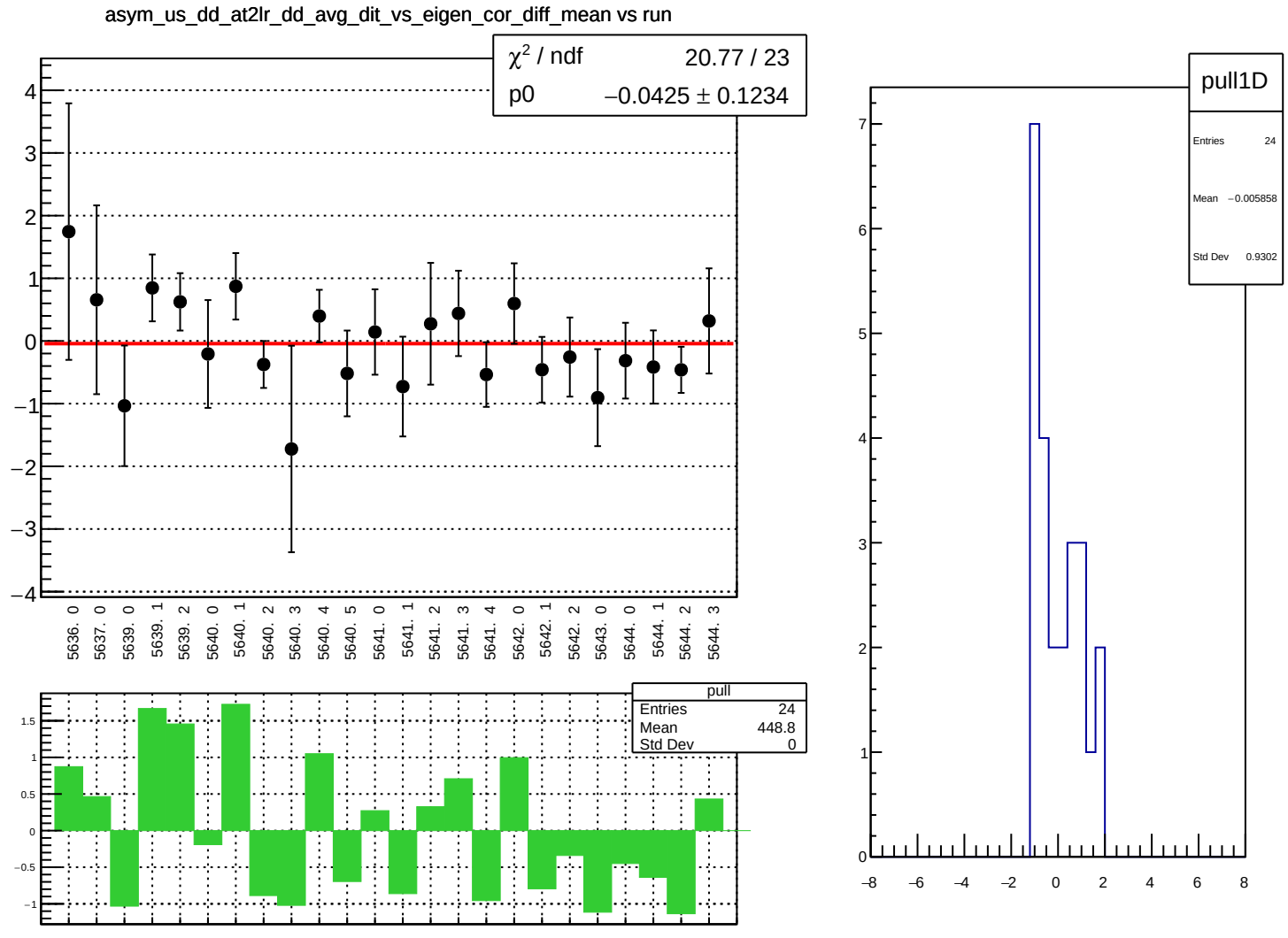

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 709.2 / 23
p0 3943 ± 5.682
4300
4200
4100
4000
3900
3800
3700
3600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

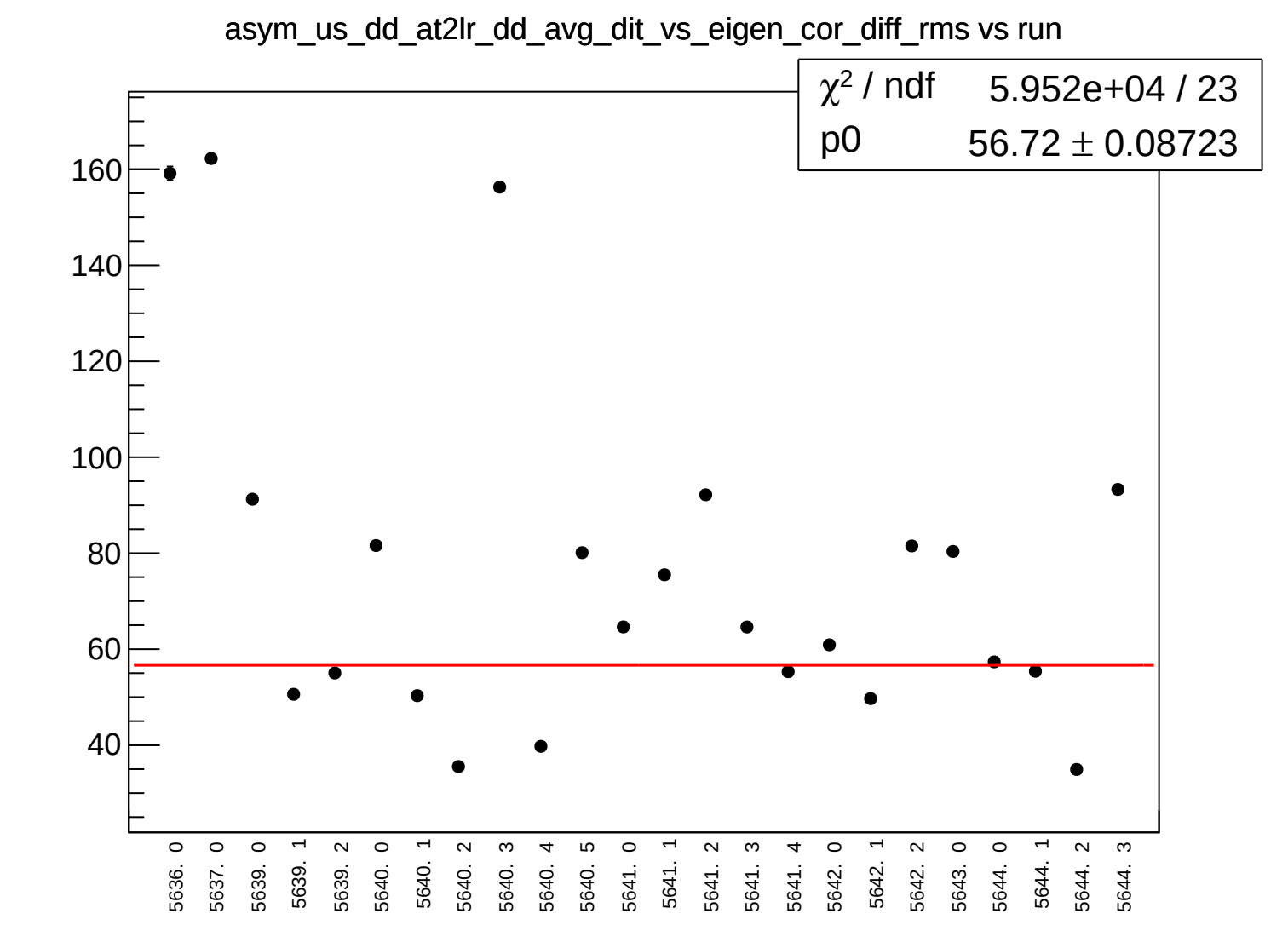

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 17.03 / 23
p0 1.403e−13 ± 4.231e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 20.42
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.2688
Std Dev 0.7983
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

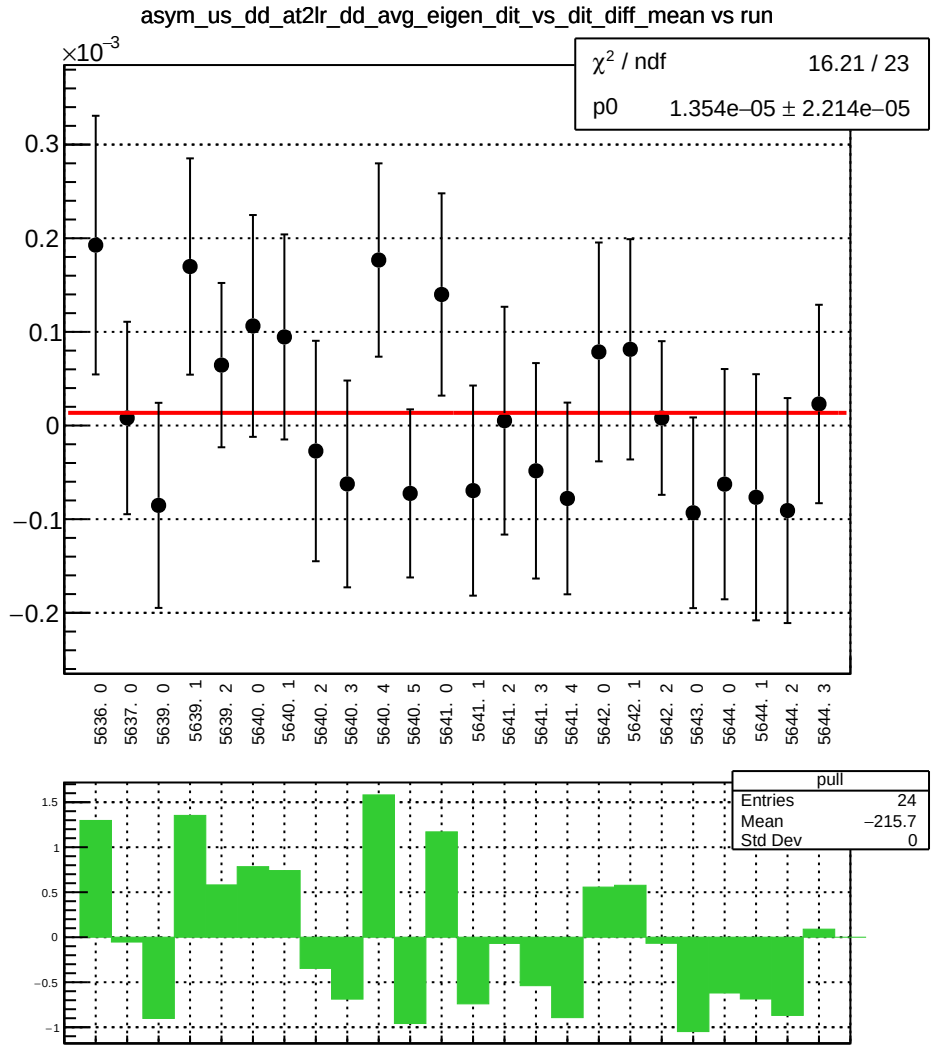

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.471e+05 / 23
p0 1.451e−10 ± 2.992e−13
1
0.8
0.6
0.4
0.2
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

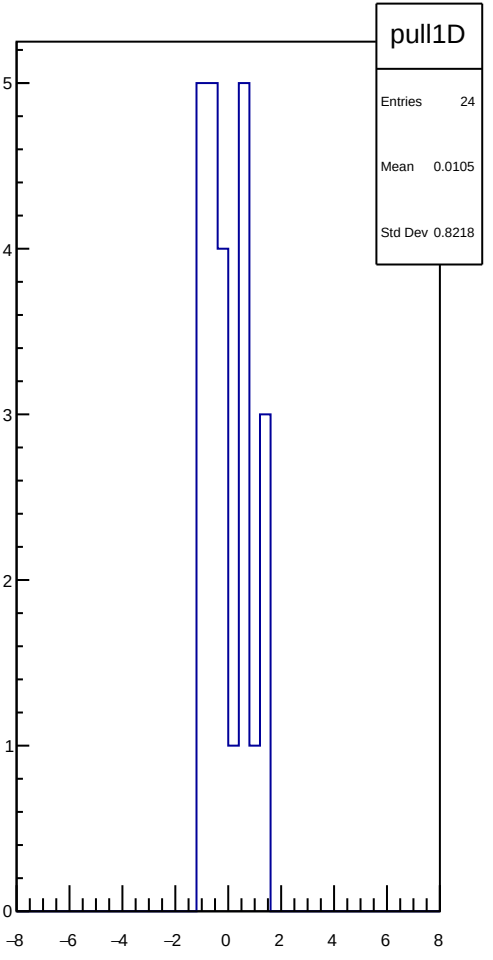

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 20.77 / 23
p0 −0.0425 ± 0.1234
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 448.8
Std Dev 0
pull1D
Entries 24
Mean −0.005858
Std Dev 0.9302

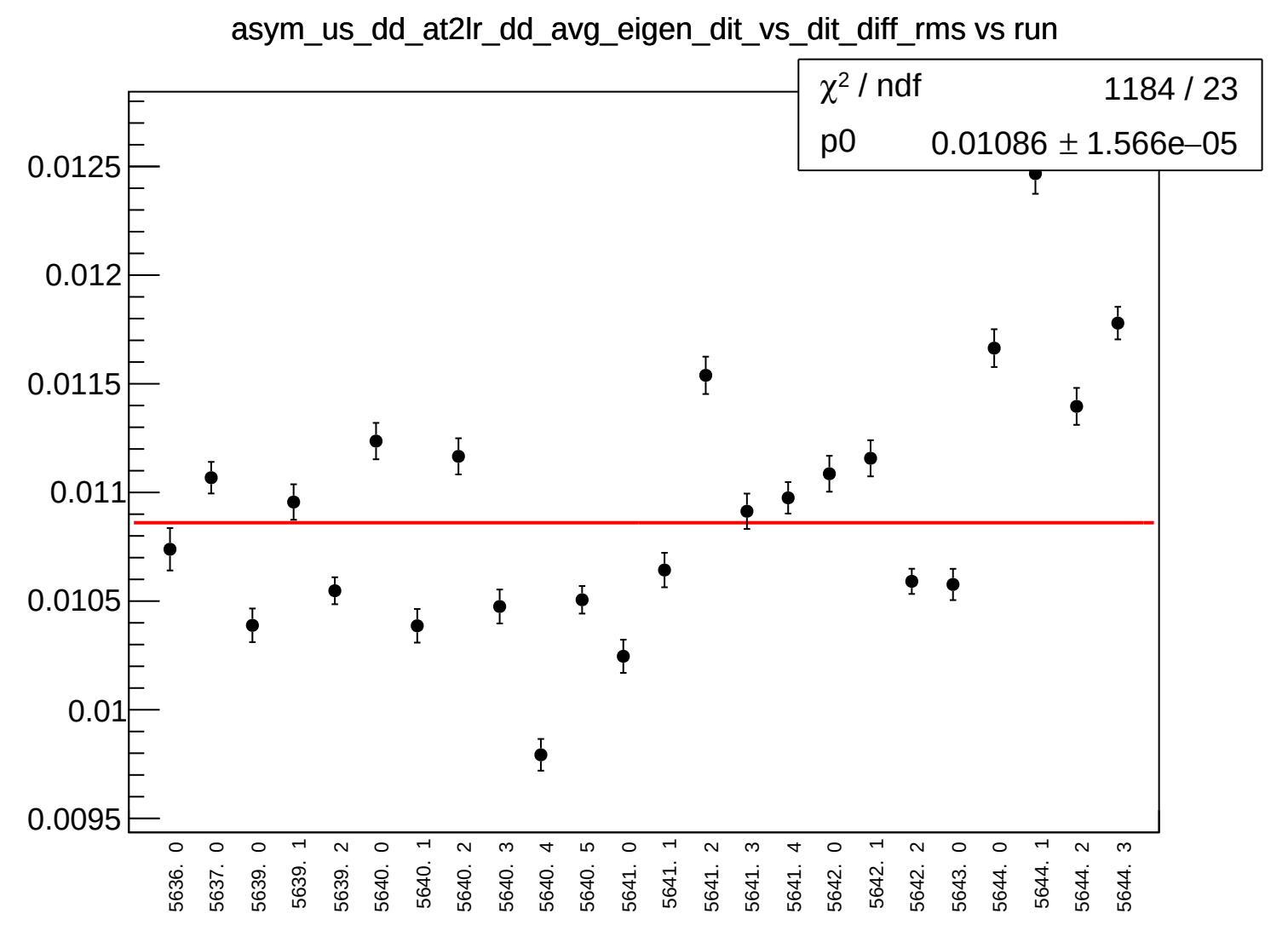

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.952e+04 / 23
p0 56.72 ± 0.08723
160
140
120
100
80
60
40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

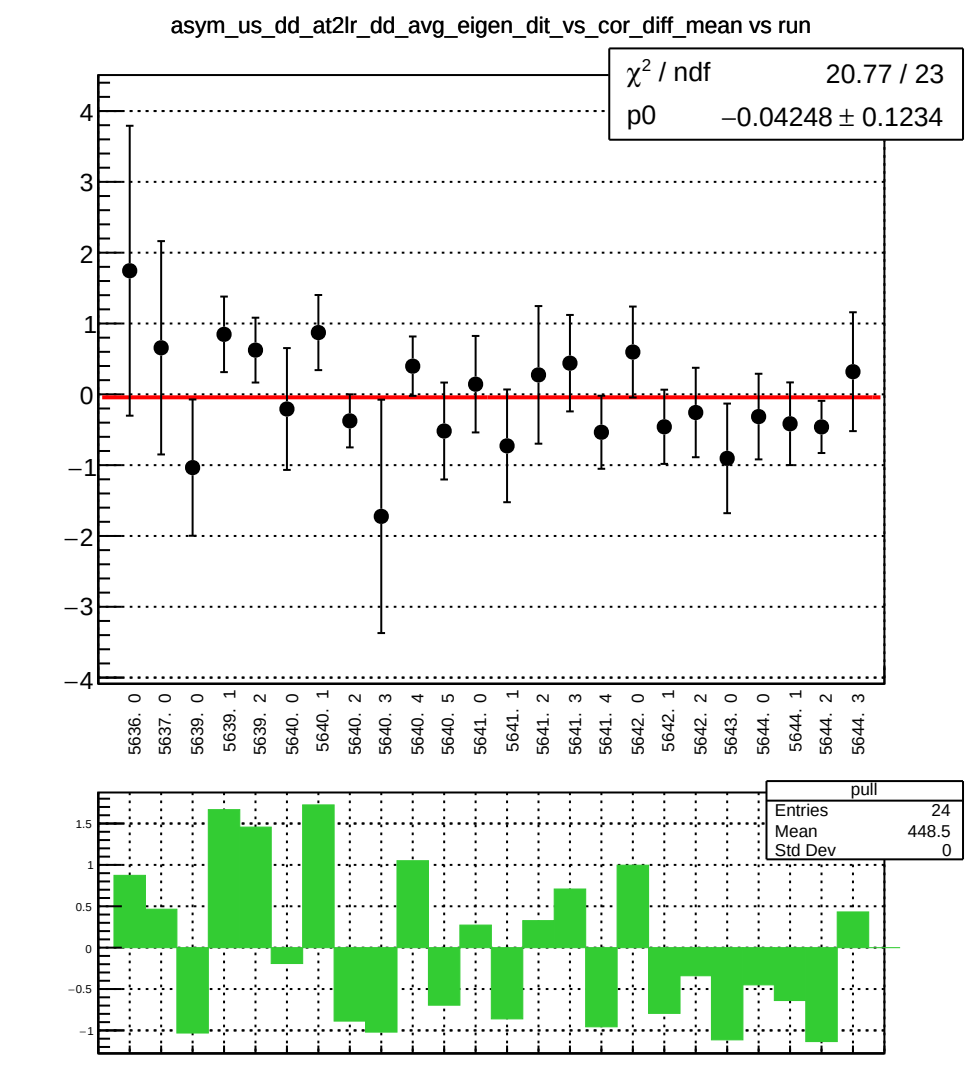

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 20.77 / 23
p0 −0.0425 ± 0.1234
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 448.8
Std Dev 0
pull1D
Entries 24
Mean −0.005858
Std Dev 0.9302

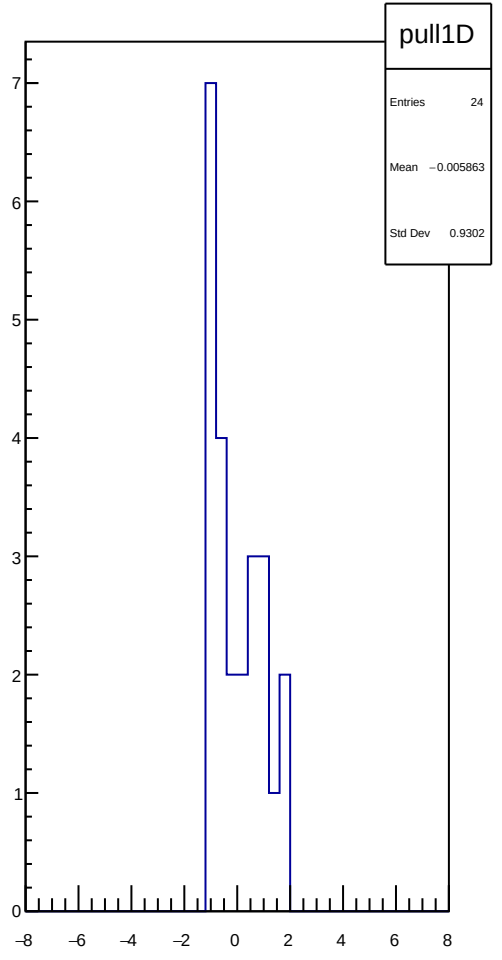

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.952e+04 / 23
p0 56.72 ± 0.08723
160
140
120
100
80
60
40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

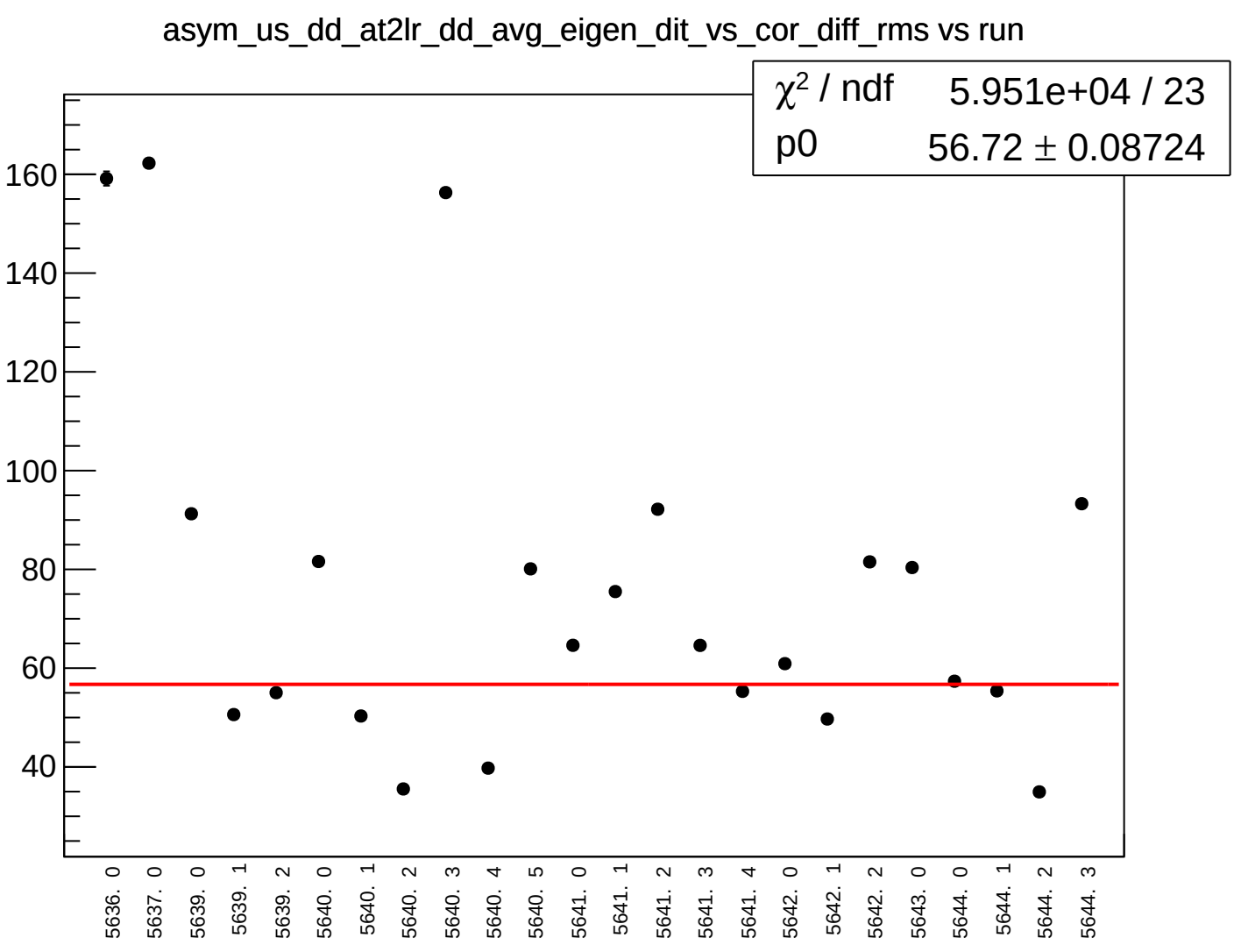

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 16.21 / 23
p0 1.354e−05 ± 2.214e−05
0.3
0.2
0.1
0
−0.1
−0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −215.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1

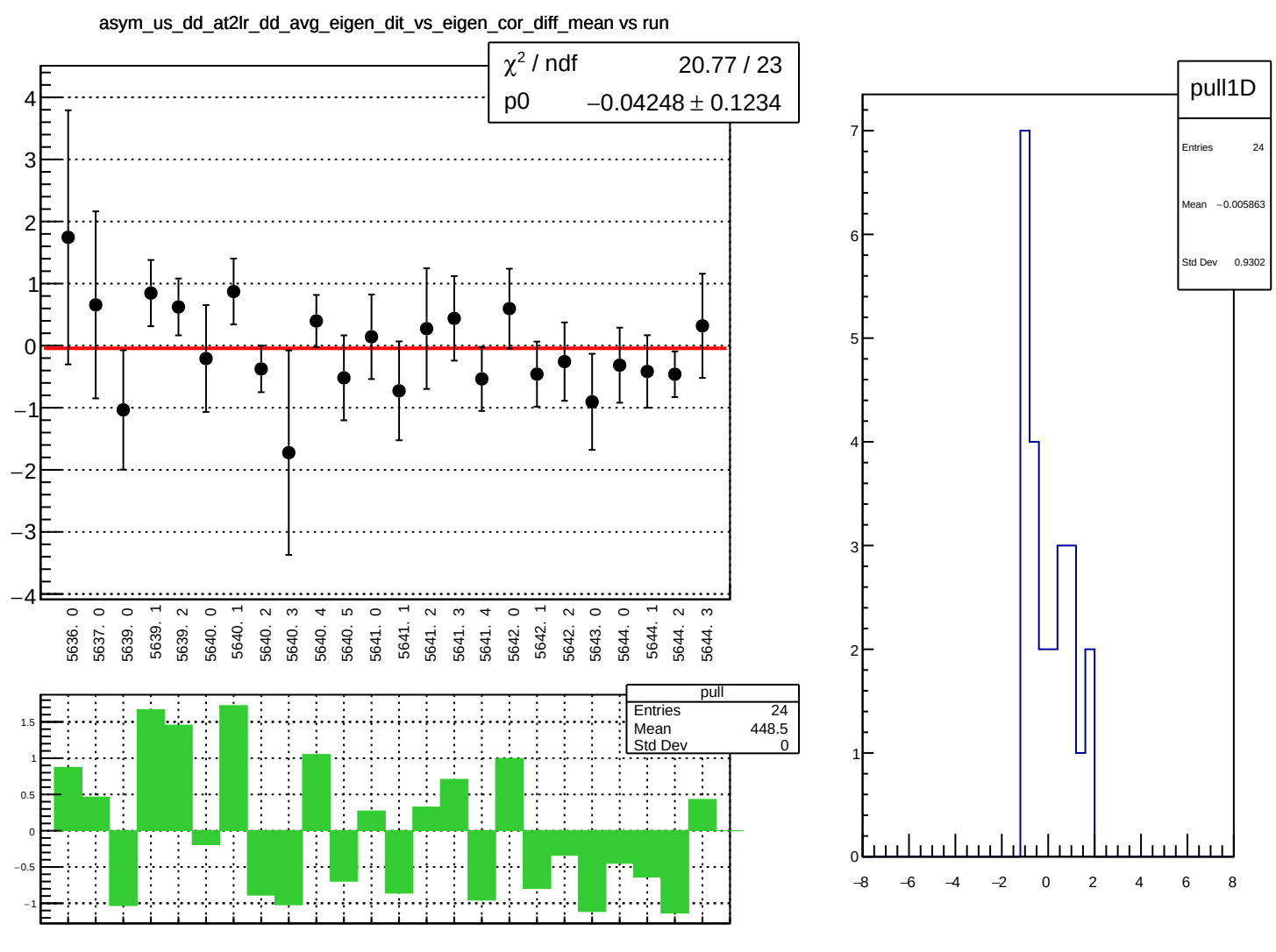

pull1D
Entries 24
Mean 0.0105
Std Dev 0.8218
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

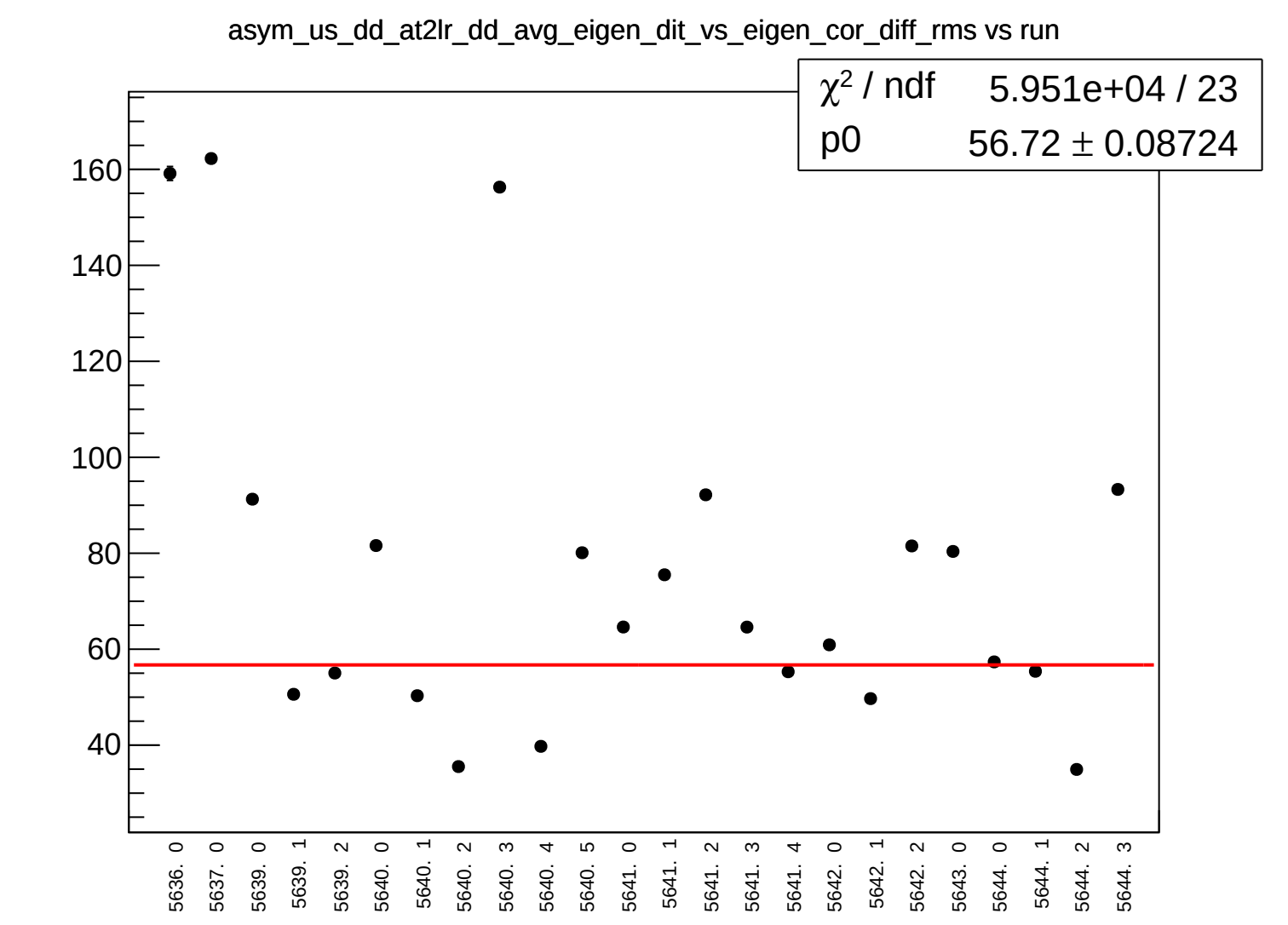

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1184 / 23
p0 0.01086 ± 1.566e−05
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

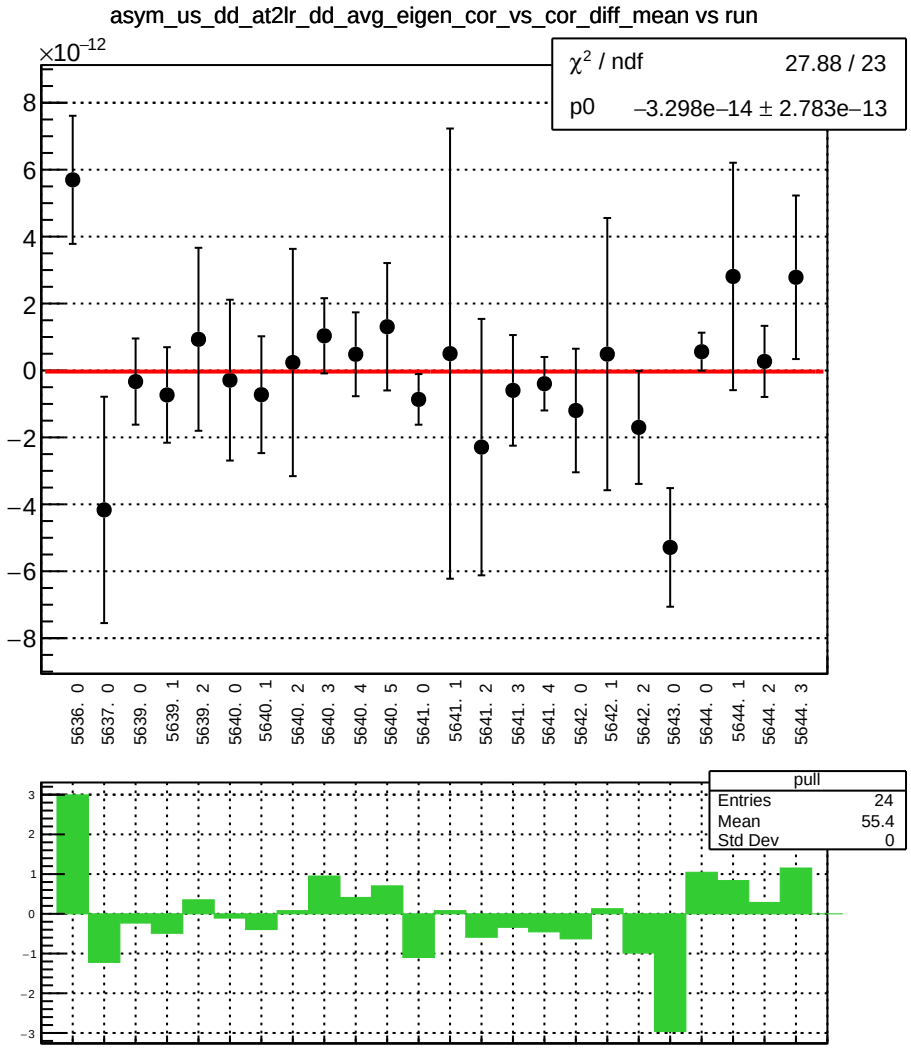

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 20.77 / 23
p0 −0.04248 ± 0.1234
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 448.5
Std Dev 0

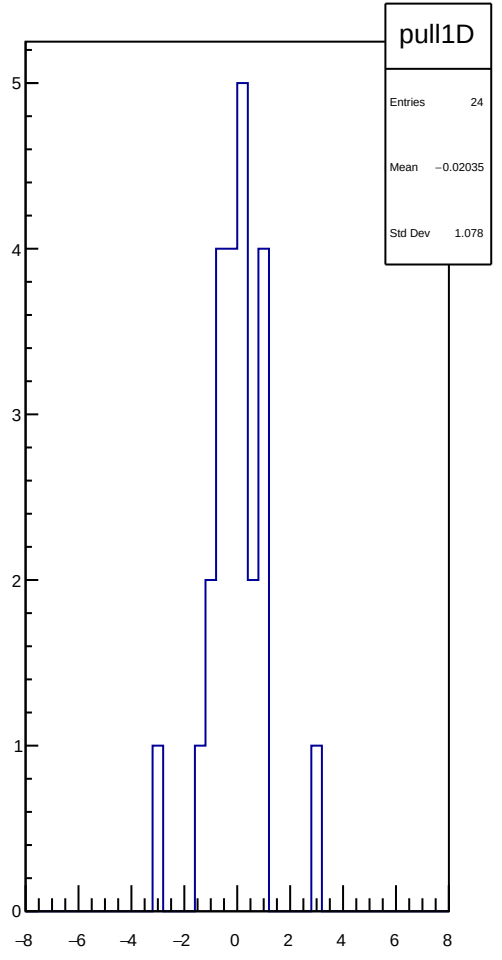

pull1D
Entries 24
Mean −0.005863
Std Dev 0.9302

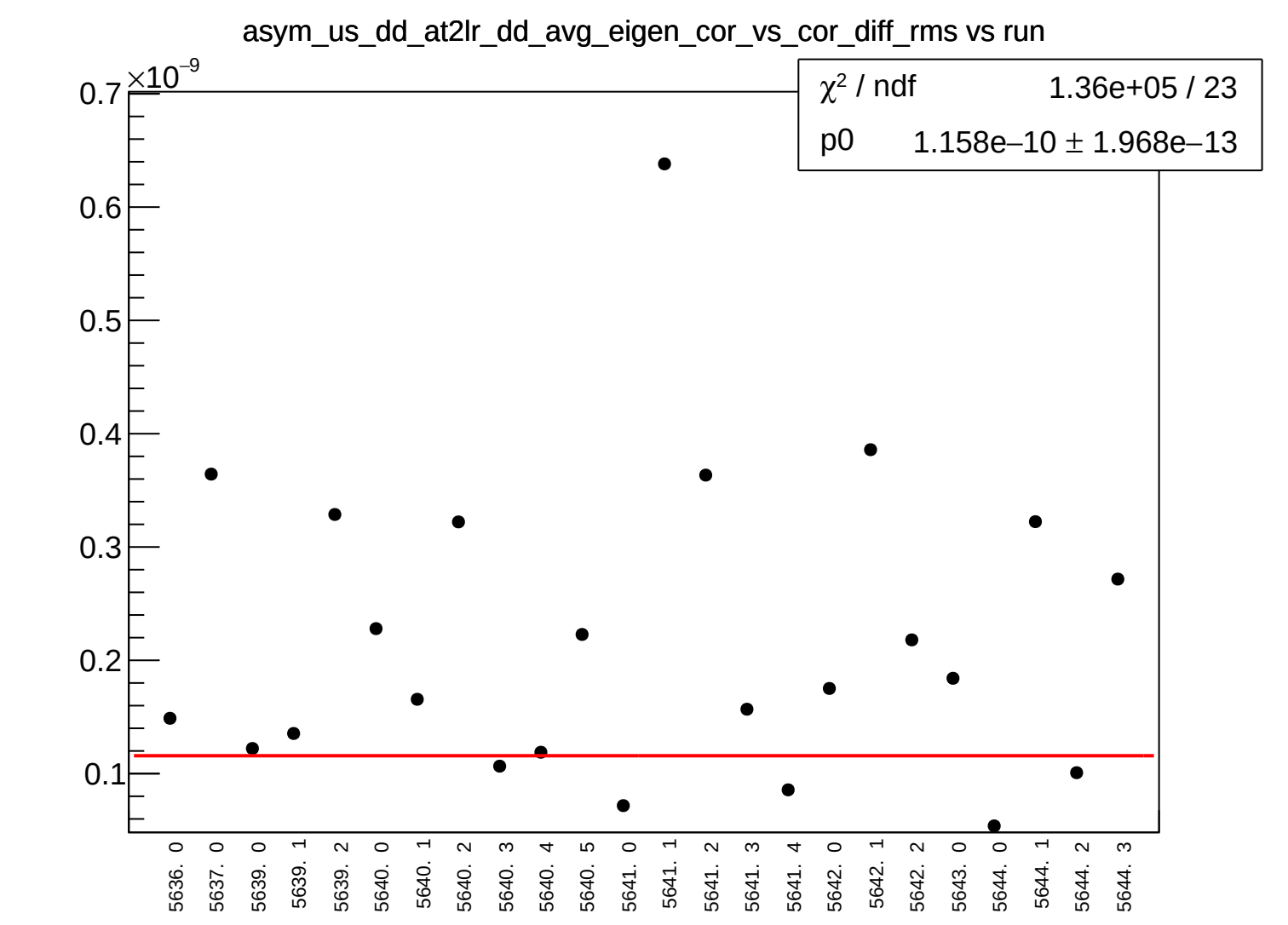

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.951e+04 / 23
p0 56.72 ± 0.08724
160
140
120
100
80
60
40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

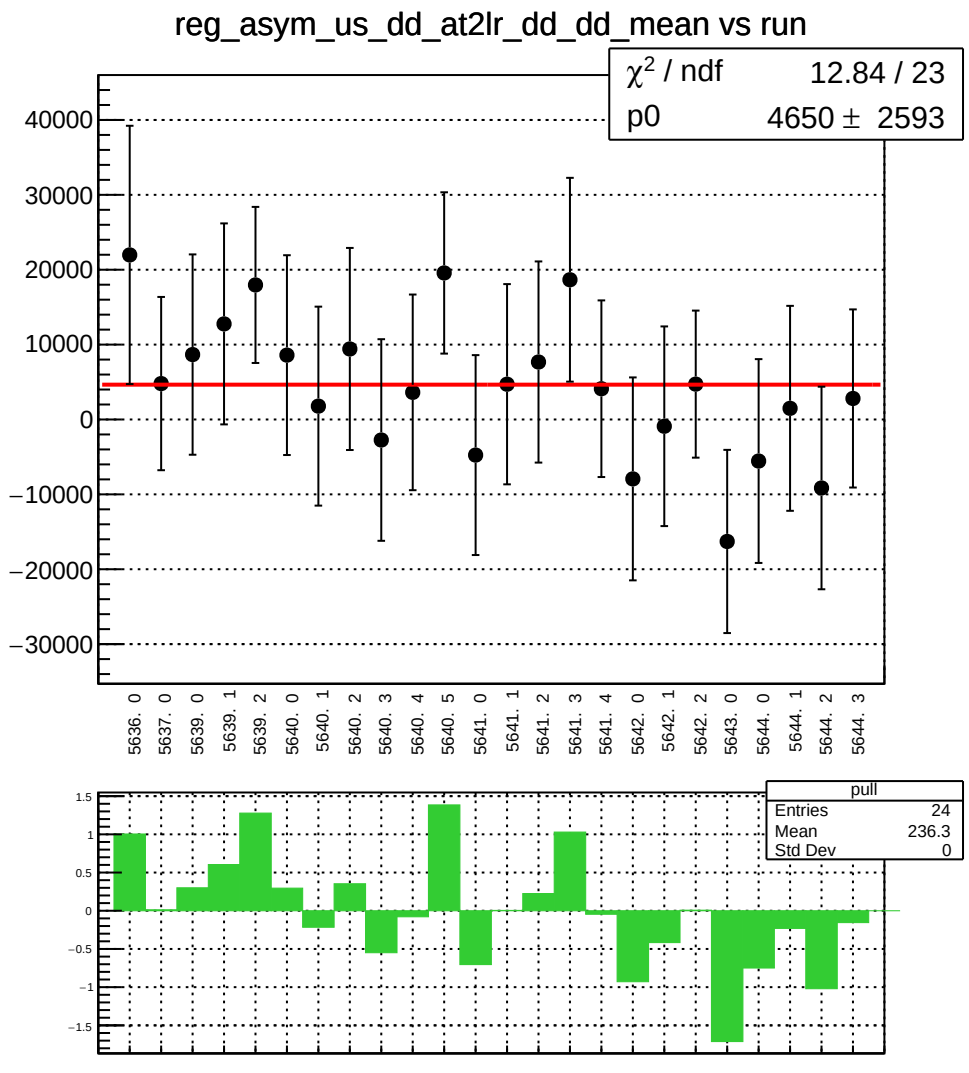

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 20.77 / 23
p0 −0.04248 ± 0.1234
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 448.5
Std Dev 0
pull1D
Entries 24
Mean −0.005863
Std Dev 0.9302

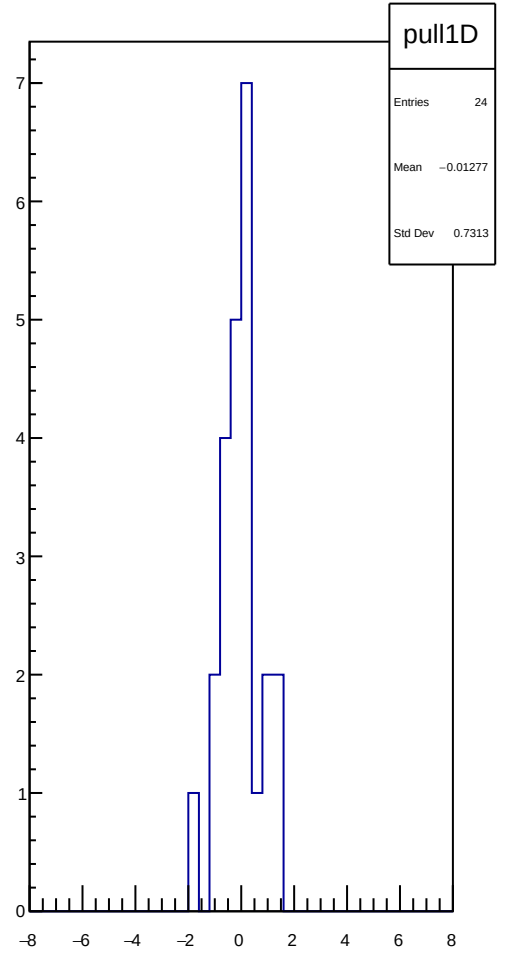

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.951e+04 / 23
p0 56.72 ± 0.08724
160
140
120
100
80
60
40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

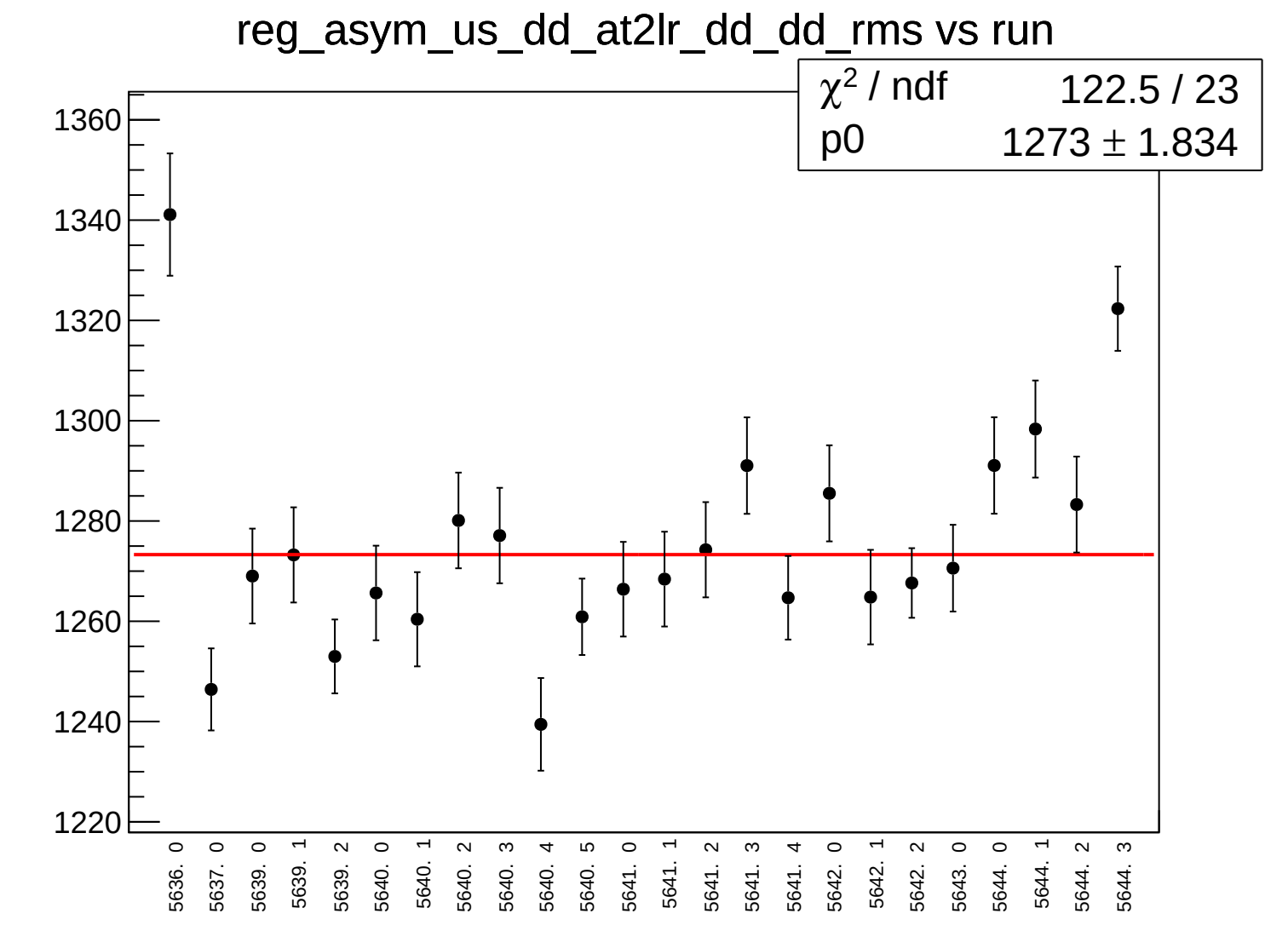

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 27.88 / 23
p0 −3.298e−14 ± 2.783e−13
8
6
4
2
0
−2
−4
−6
−8
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 55.4
Std Dev 0
3
2
1
0
−1
−2
−3

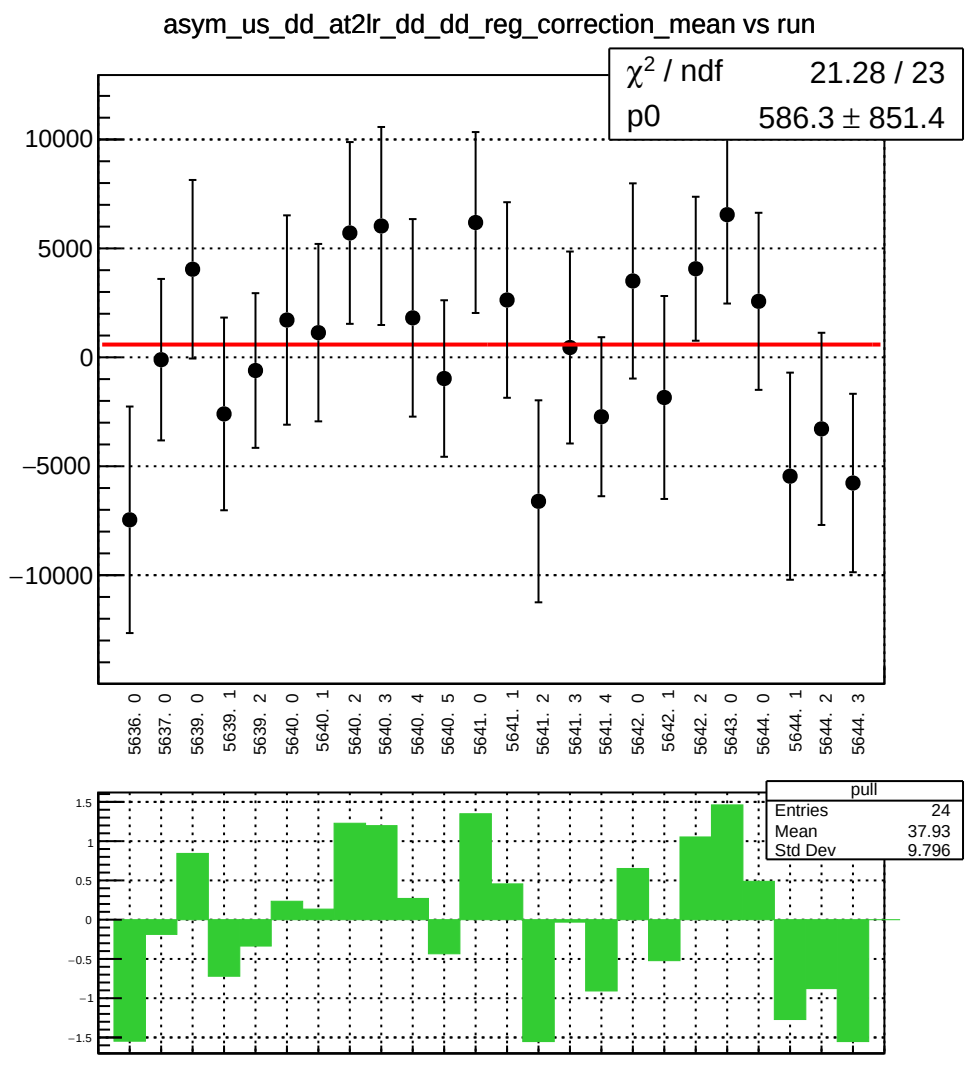

pull1D
Entries 24
Mean −0.02035
Std Dev 1.078
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

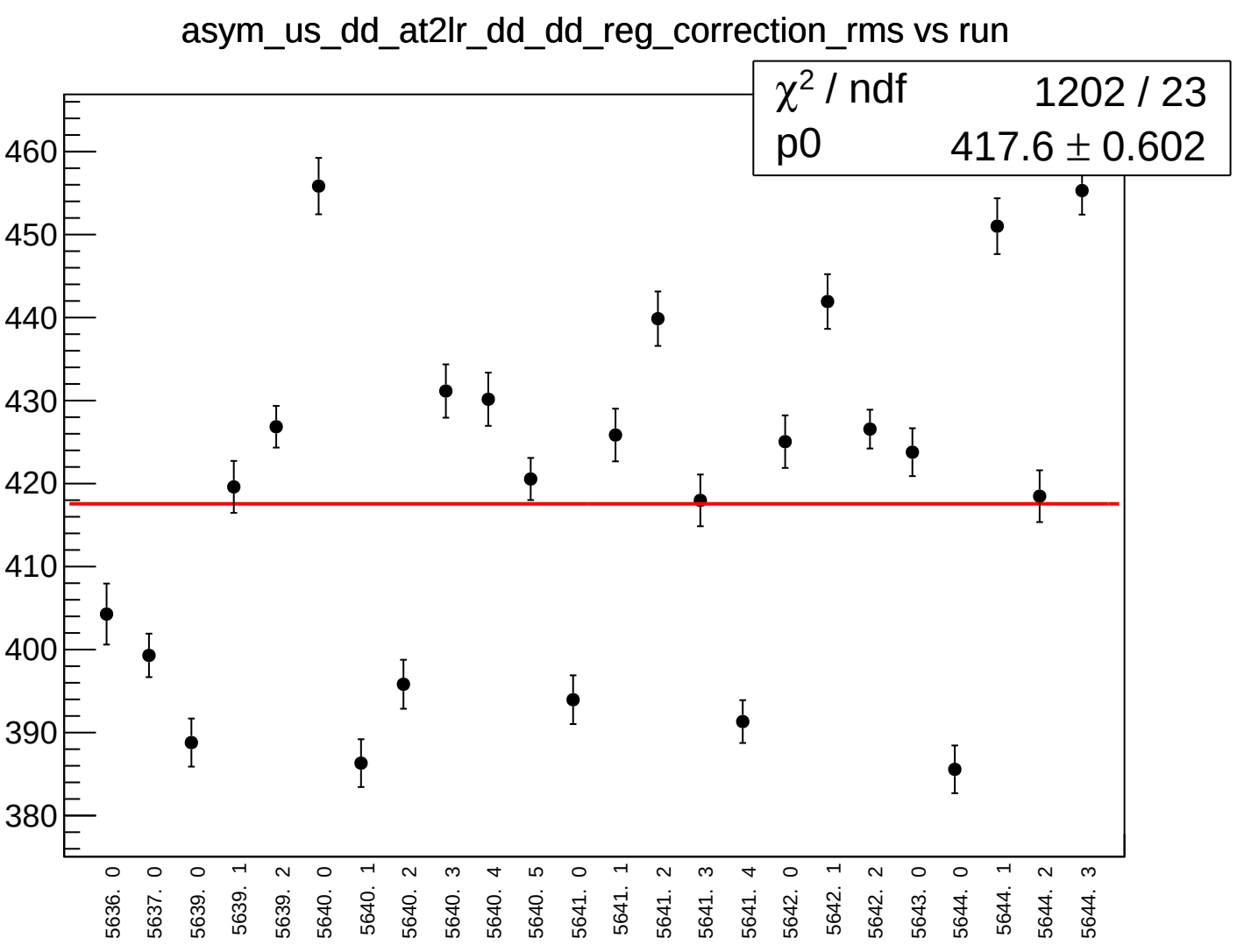

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 1.36e+05 / 23
p0 1.158e−10 ± 1.968e−13
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

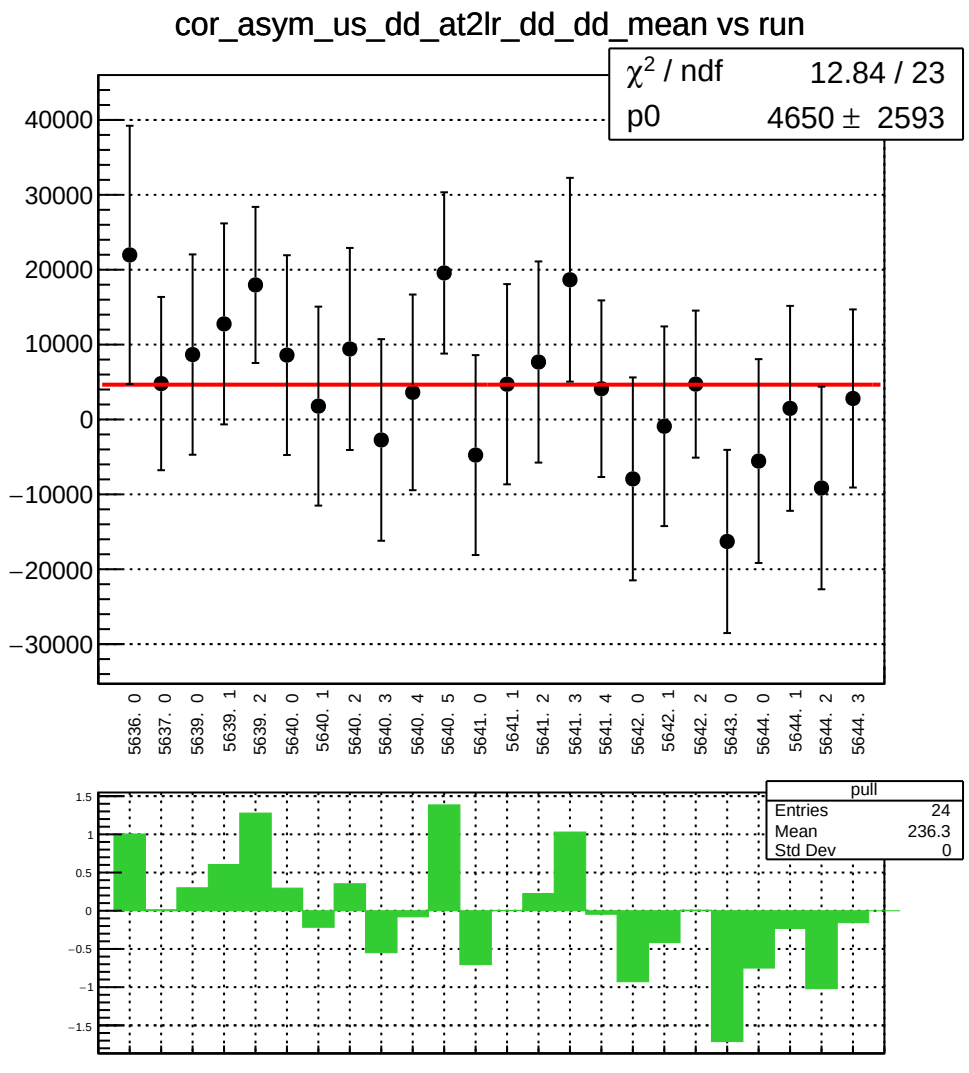

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 12.84 / 23
p0 4650 ± 2593
40000
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 236.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

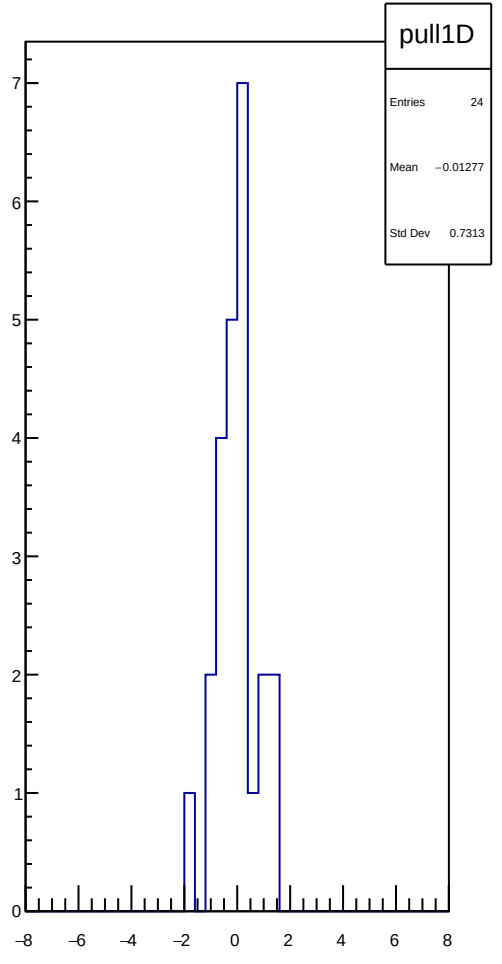

pull1D
Entries 24
Mean −0.01277
Std Dev 0.7313
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

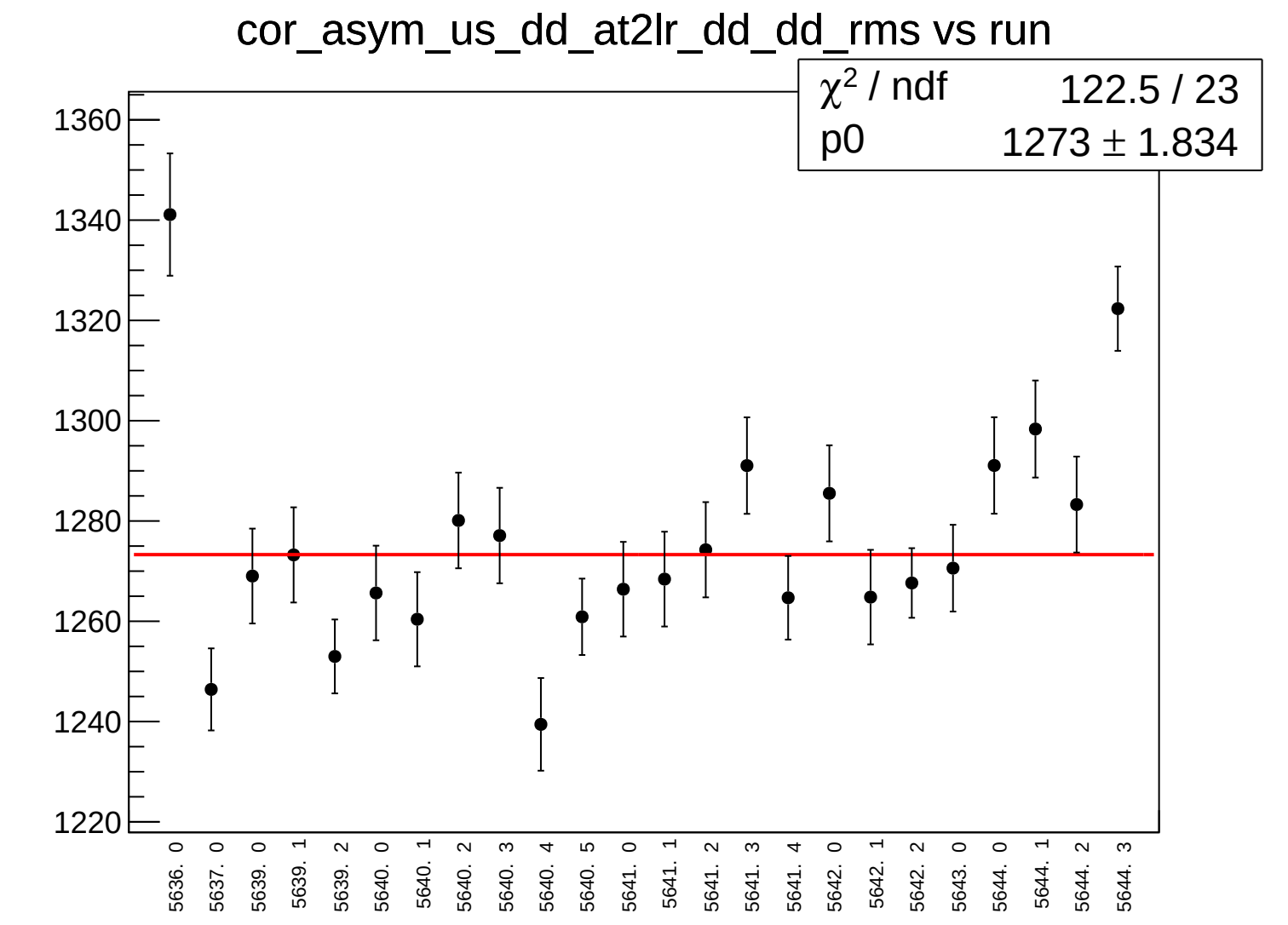

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 122.5 / 23
p0 1273 ± 1.834
1360
1340
1320
1300
1280
1260
1240
1220
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

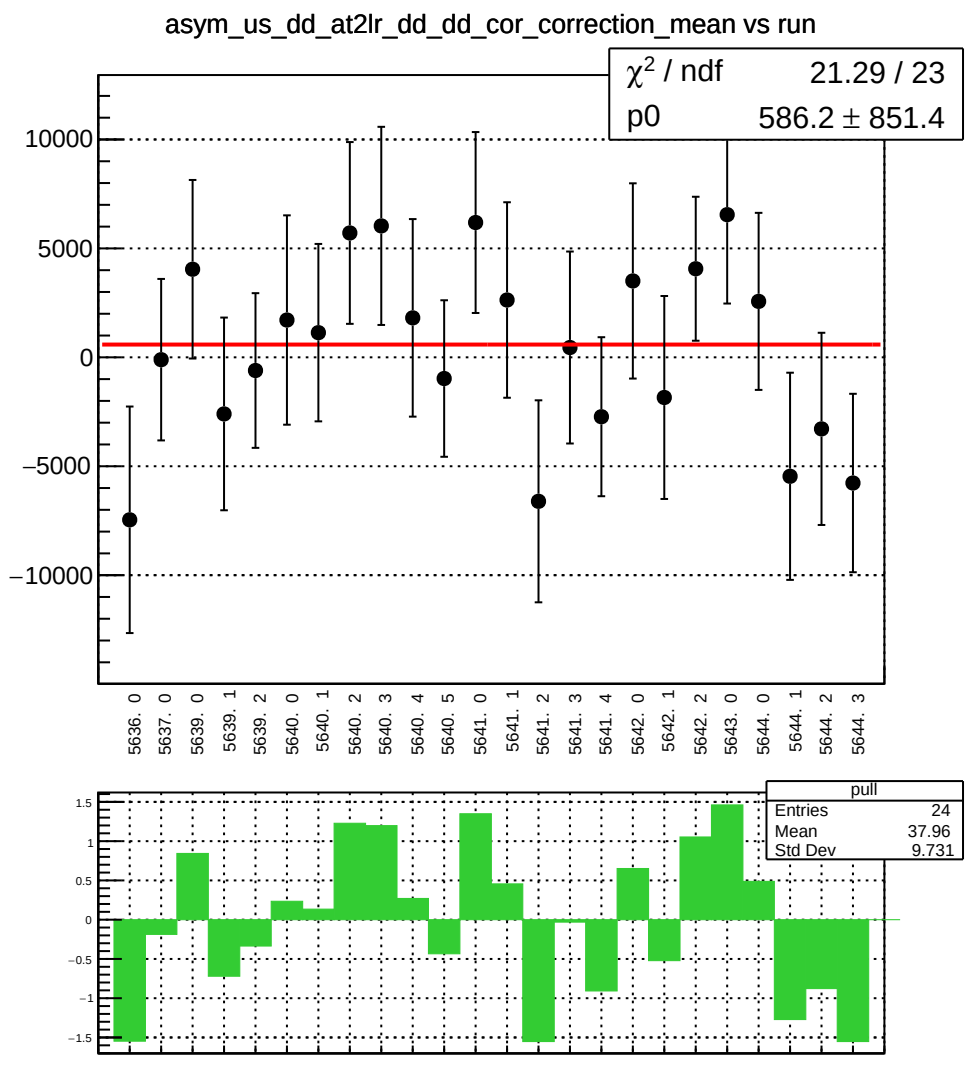

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 21.28 / 23
p0 586.3 ± 851.4
10000
5000
0
−5000
−10000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 37.93
Std Dev 9.796
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.02373
Std Dev 0.9414
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

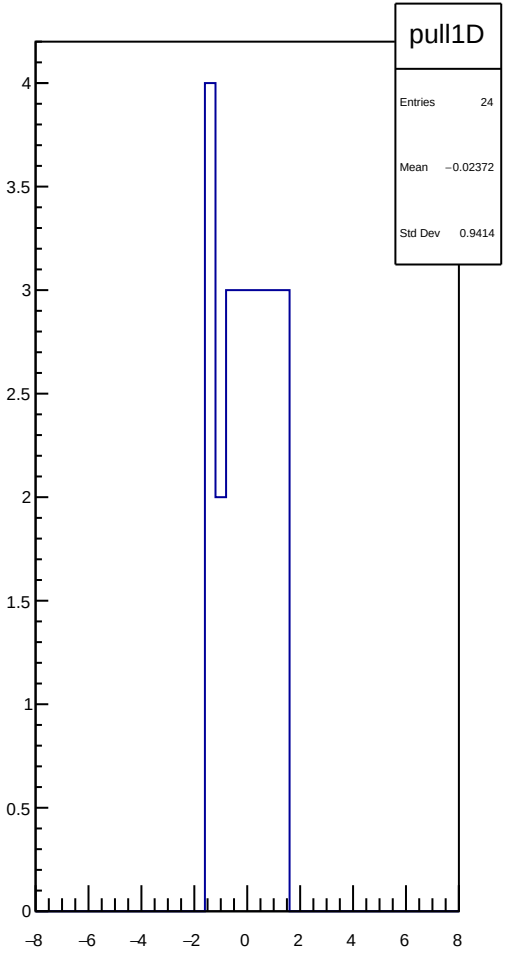

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 1202 / 23
p0 417.6 ± 0.602
460
450
440
430
420
410
400
390
380
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

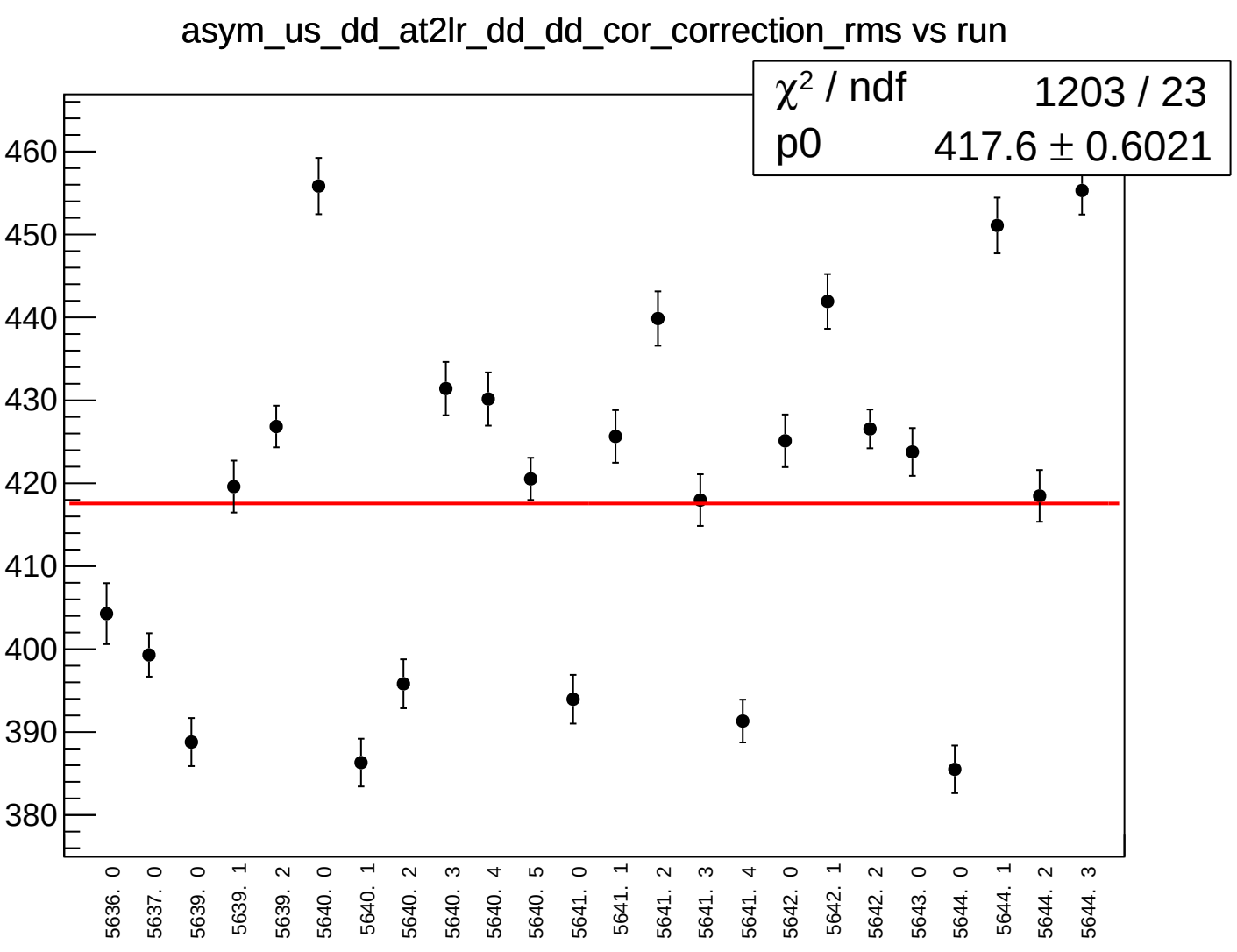

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 12.84 / 23
p0 4650 ± 2593
40000
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 236.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

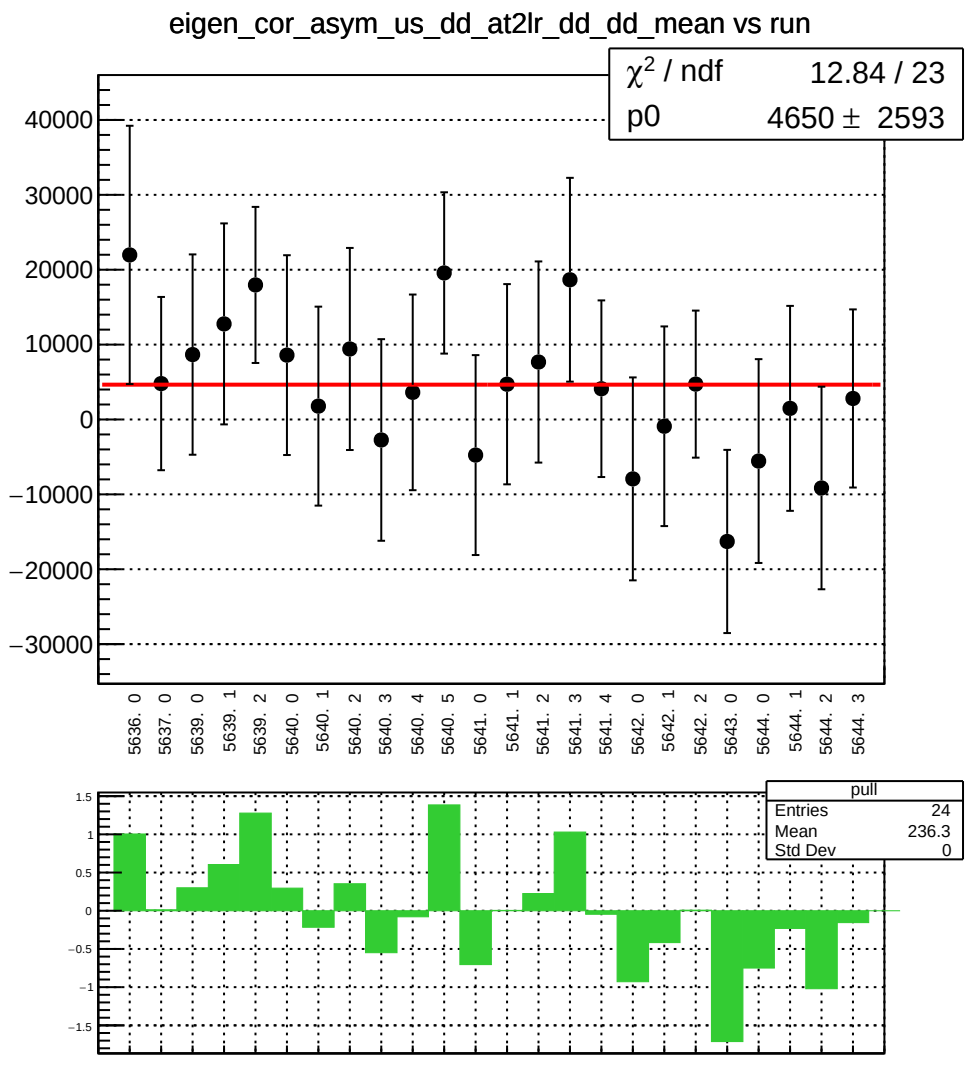

pull1D
Entries 24
Mean −0.01277
Std Dev 0.7313
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

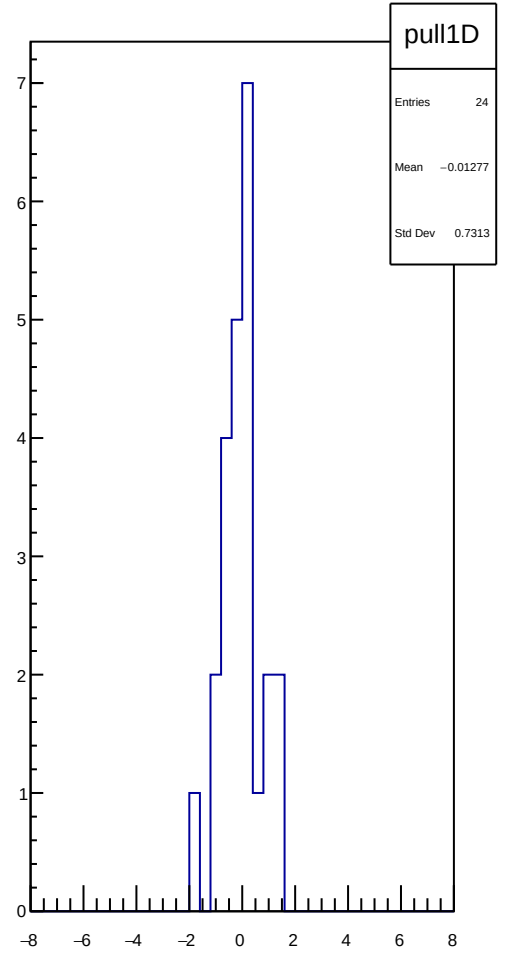

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 122.5 / 23
p0 1273 ± 1.834
1360
1340
1320
1300
1280
1260
1240
1220
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

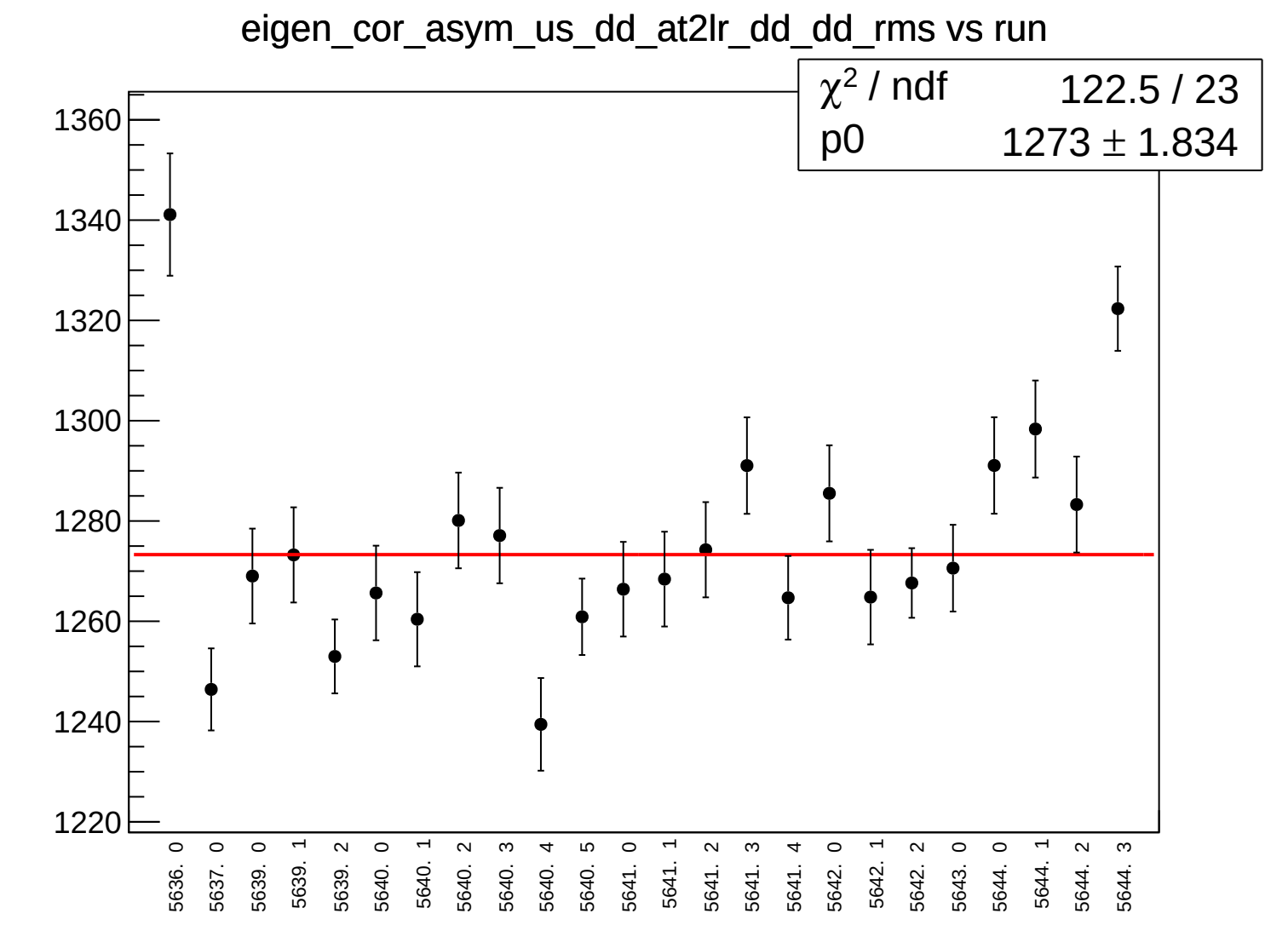

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 21.29 / 23
p0 586.2 ± 851.4
10000
5000
0
−5000
−10000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 37.96
Std Dev 9.731
1.5
1
0.5
0
−0.5
−1
−1.5

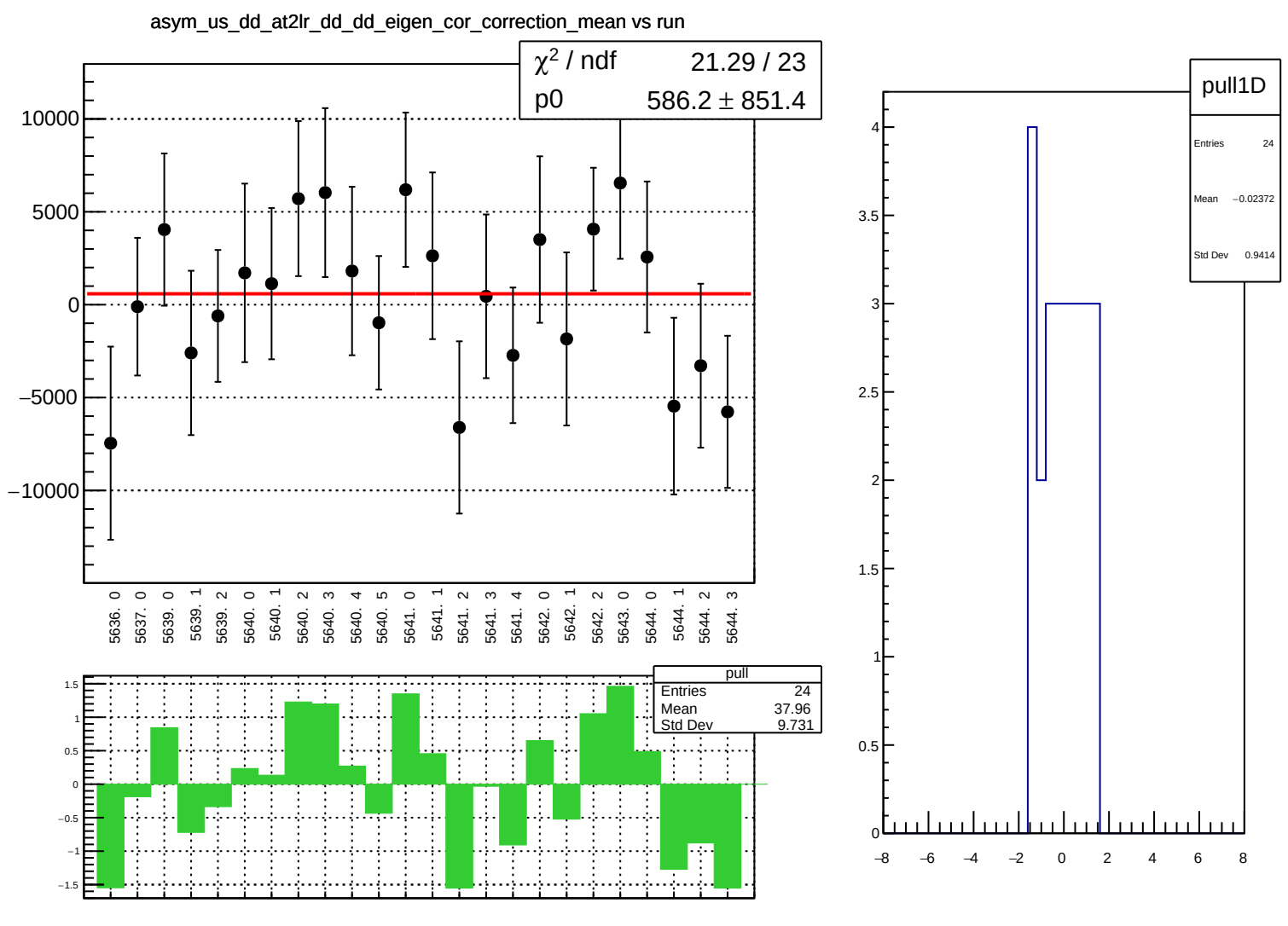

pull1D
Entries 24
Mean −0.02372
Std Dev 0.9414
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

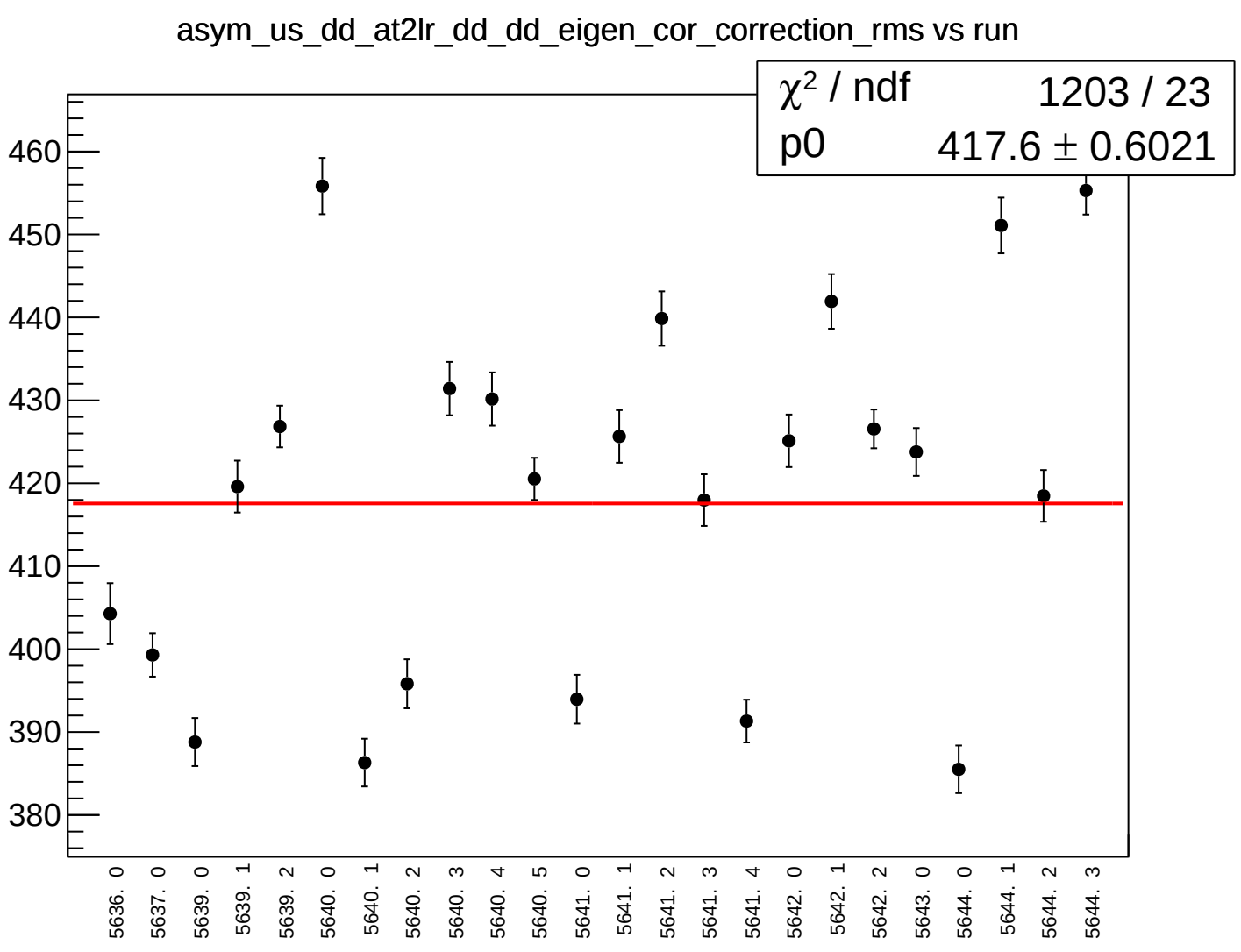

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 1203 / 23
p0 417.6 ± 0.6021
460
450
440
430
420
410
400
390
380
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

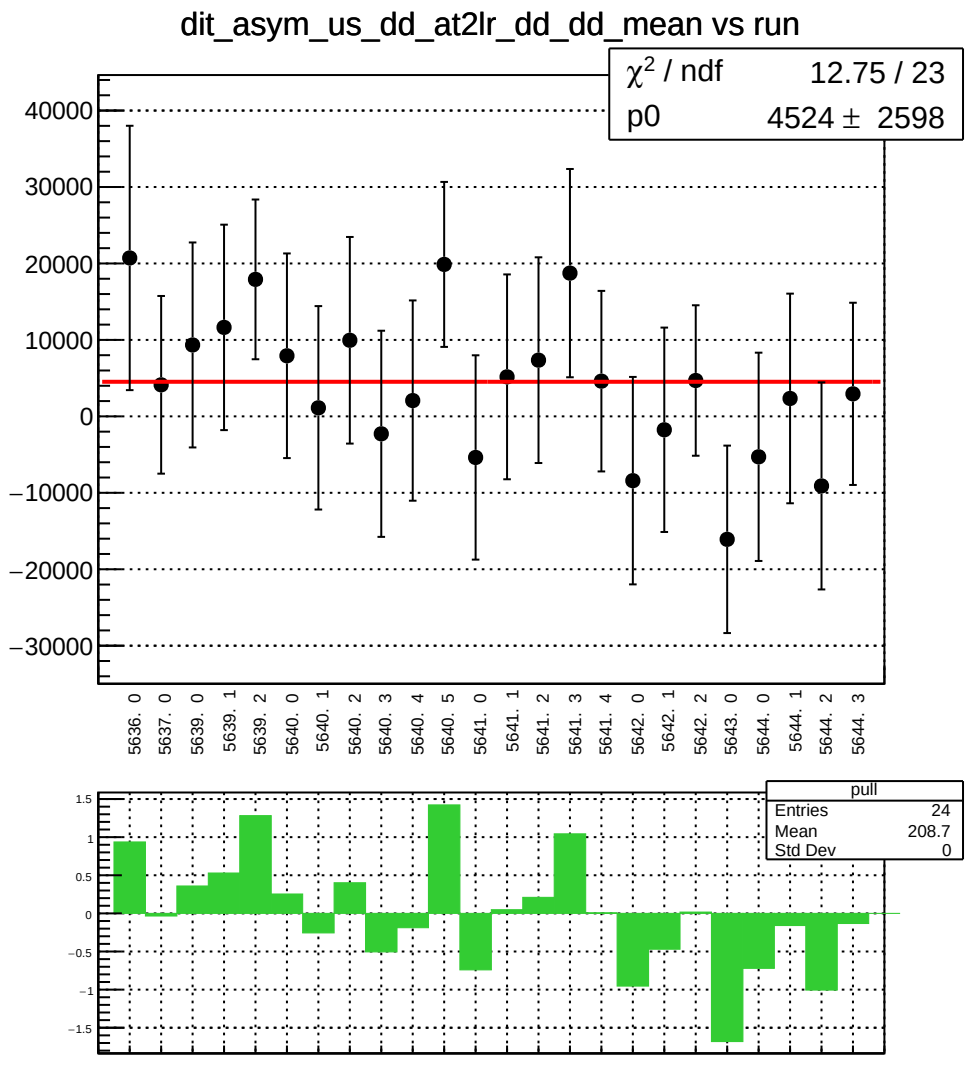

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 12.84 / 23
p0 4650 ± 2593
40000
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 236.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

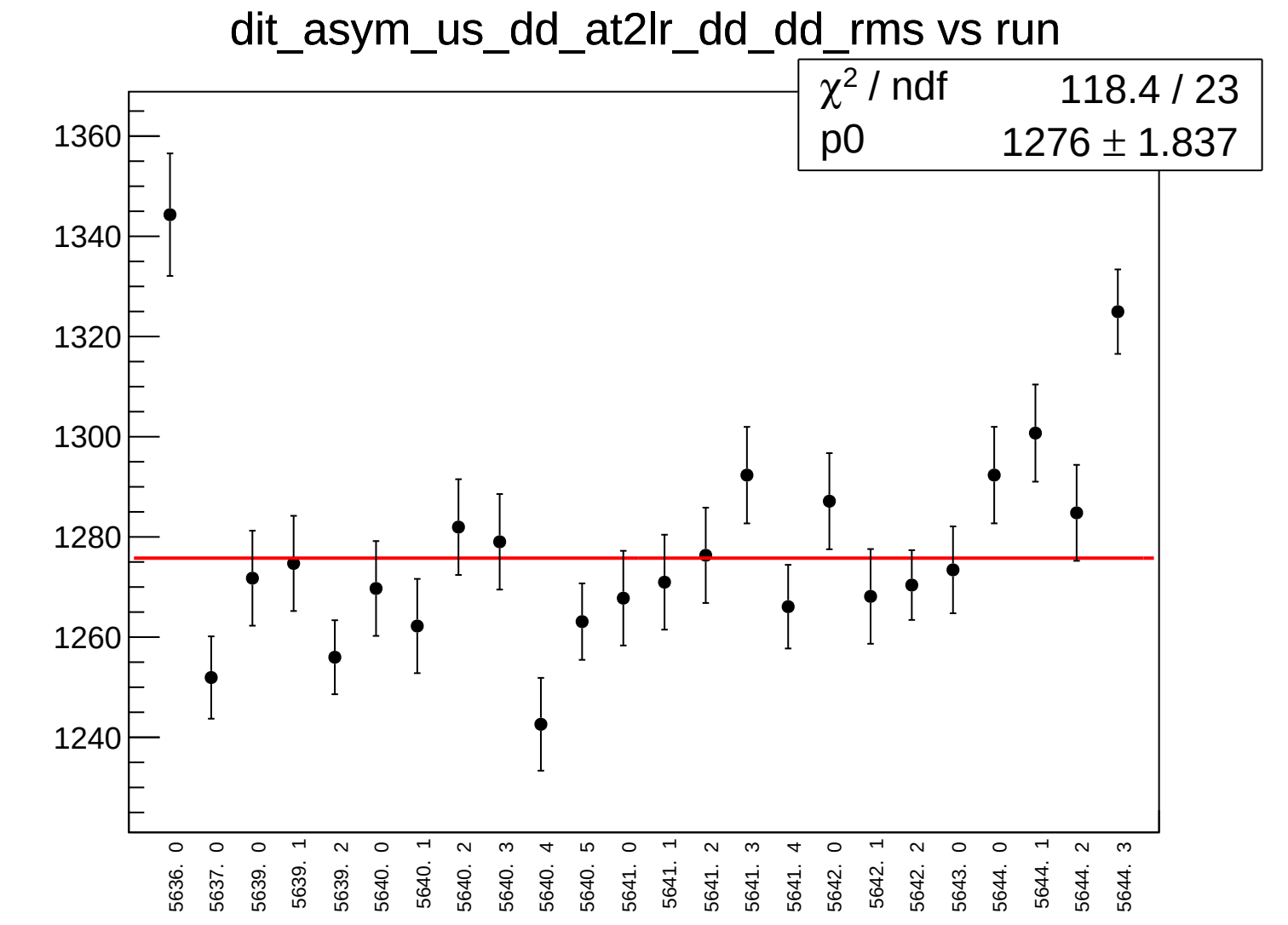

pull1D
Entries 24
Mean −0.01277
Std Dev 0.7313
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

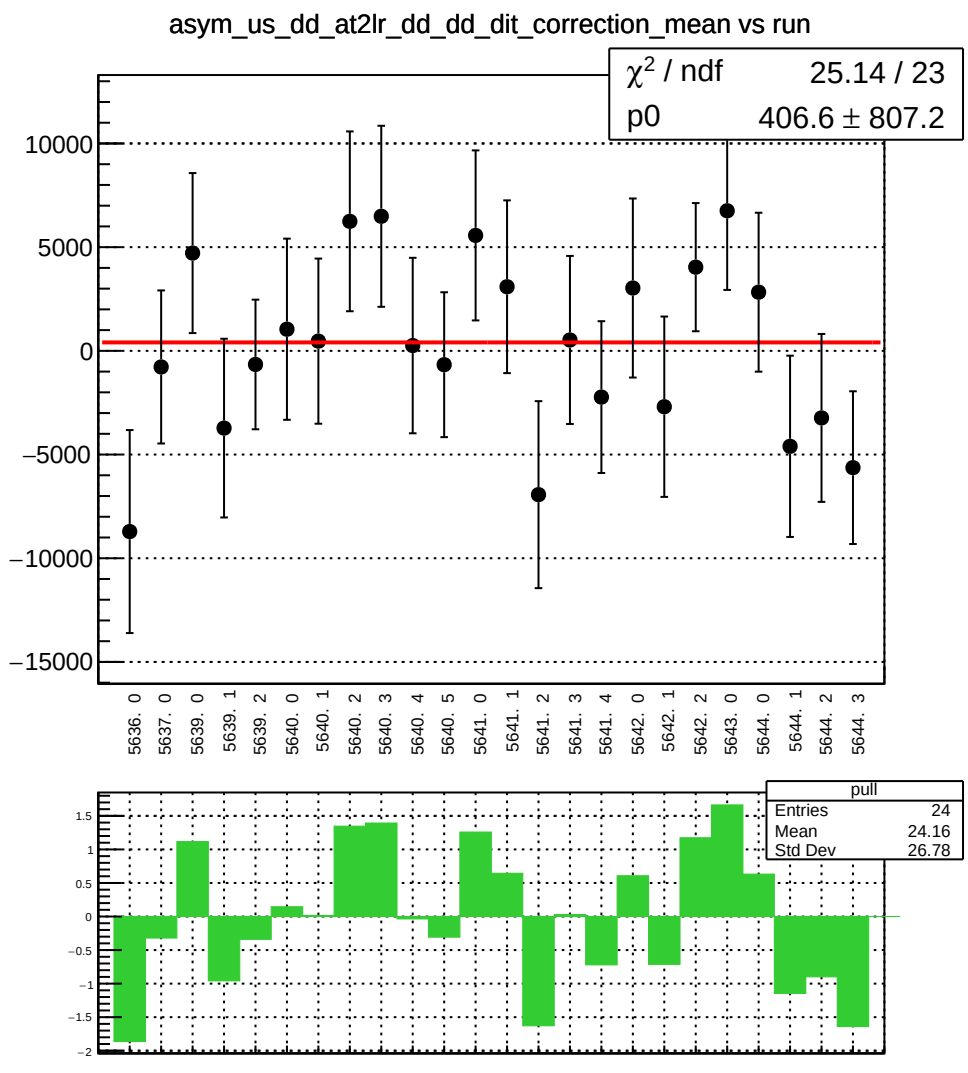

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 122.5 / 23
p0 1273 ± 1.834
1360
1340
1320
1300
1280
1260
1240
1220
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

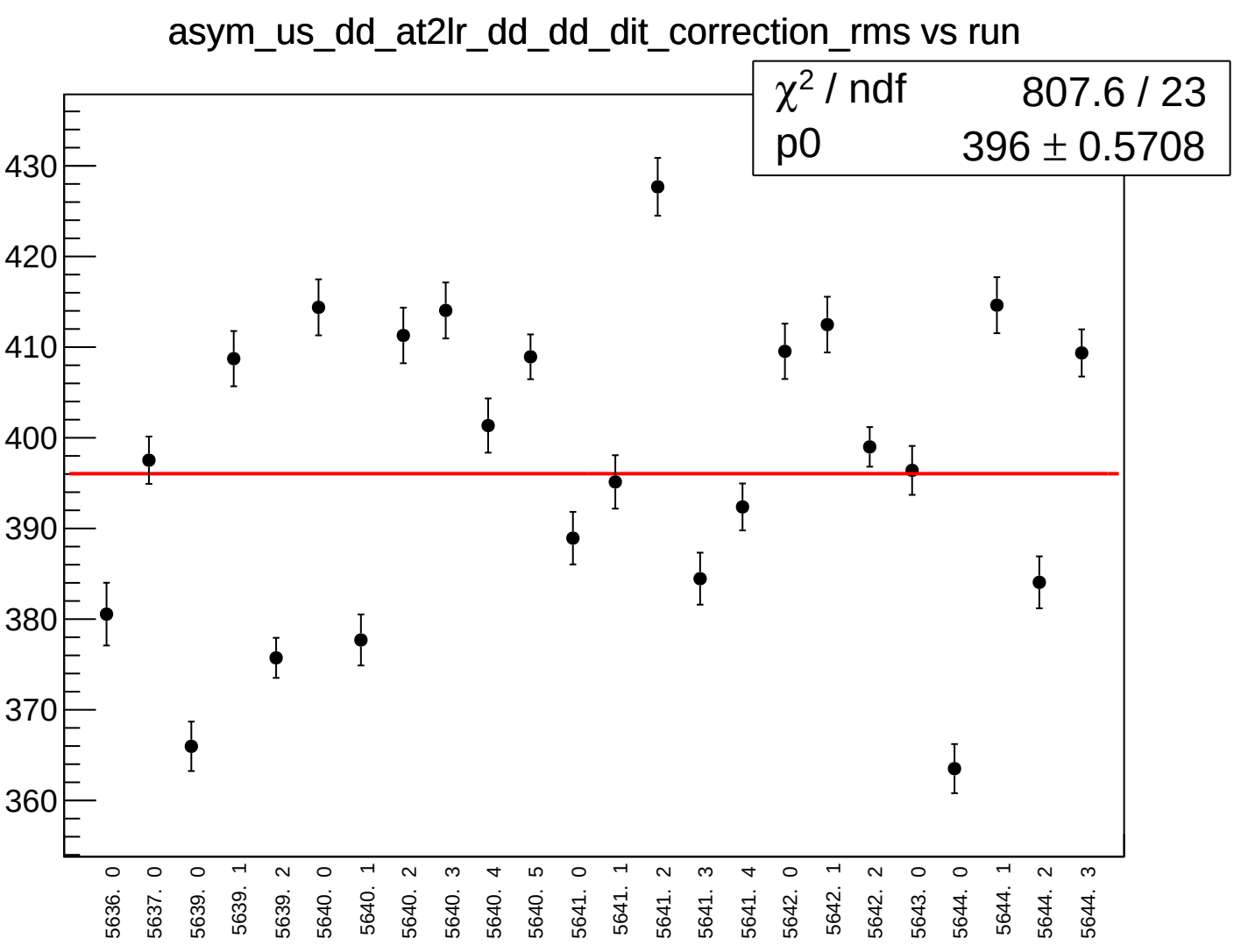

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 21.29 / 23
p0 586.2 ± 851.4
10000
5000
0
−5000
−10000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 37.96
Std Dev 9.731
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.02372
Std Dev 0.9414
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

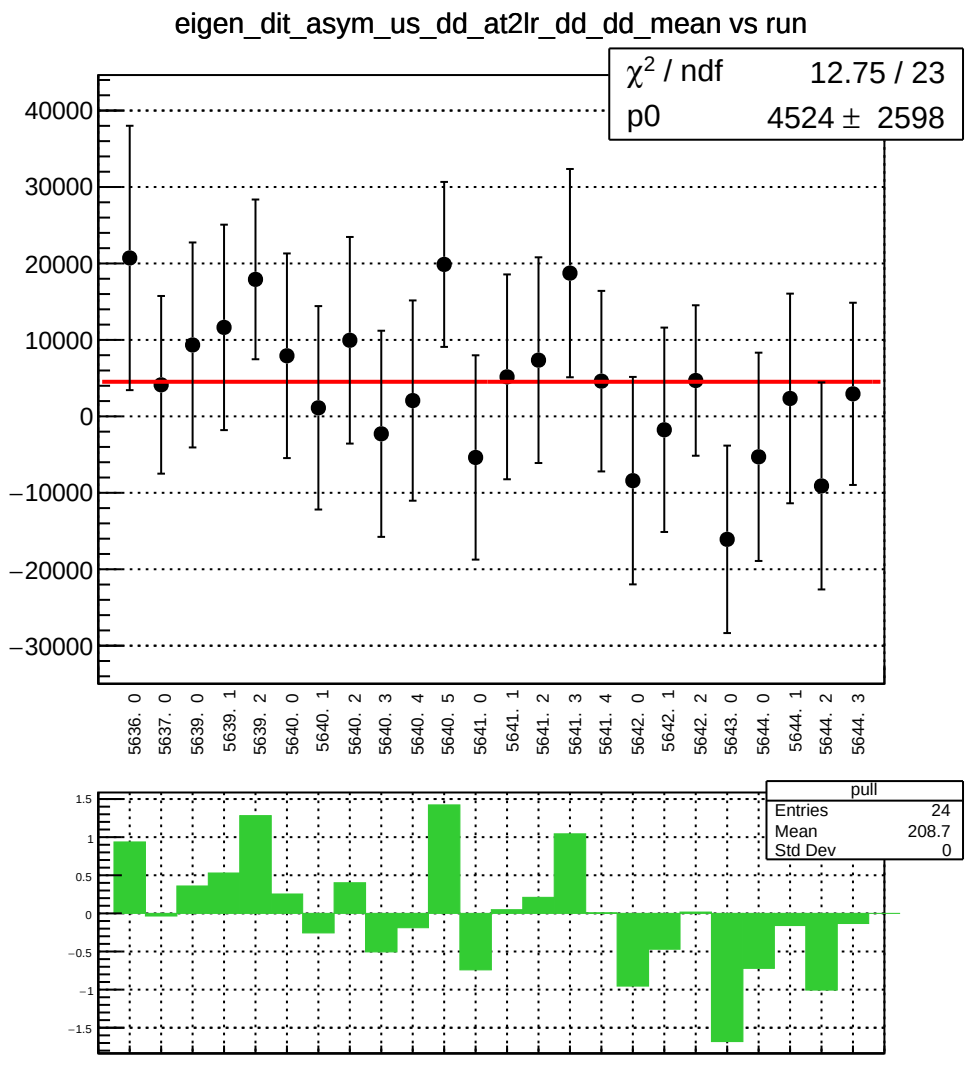

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1203 / 23
p0 417.6 ± 0.6021
460
450
440
430
420
410
400
390
380
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

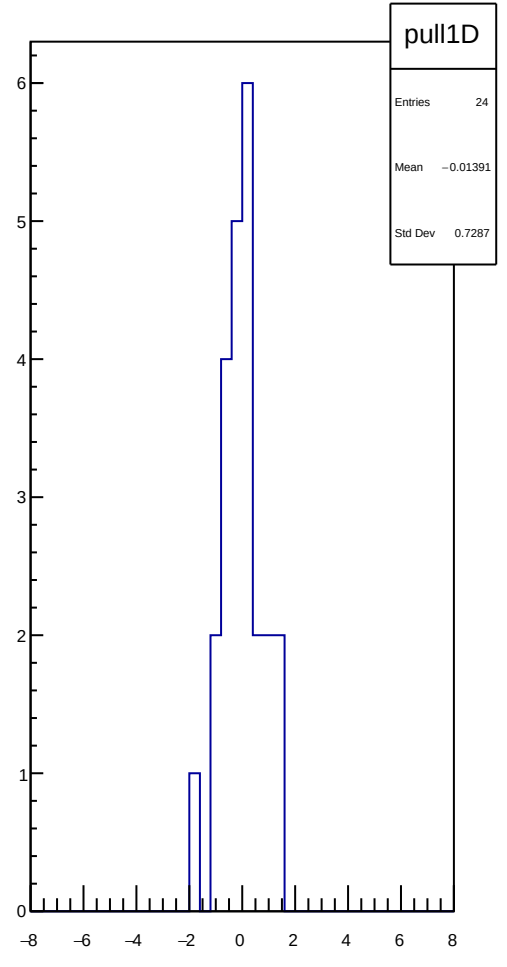

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 12.75 / 23
p0 4524 ± 2598
40000
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 208.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.01391
Std Dev 0.7287
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

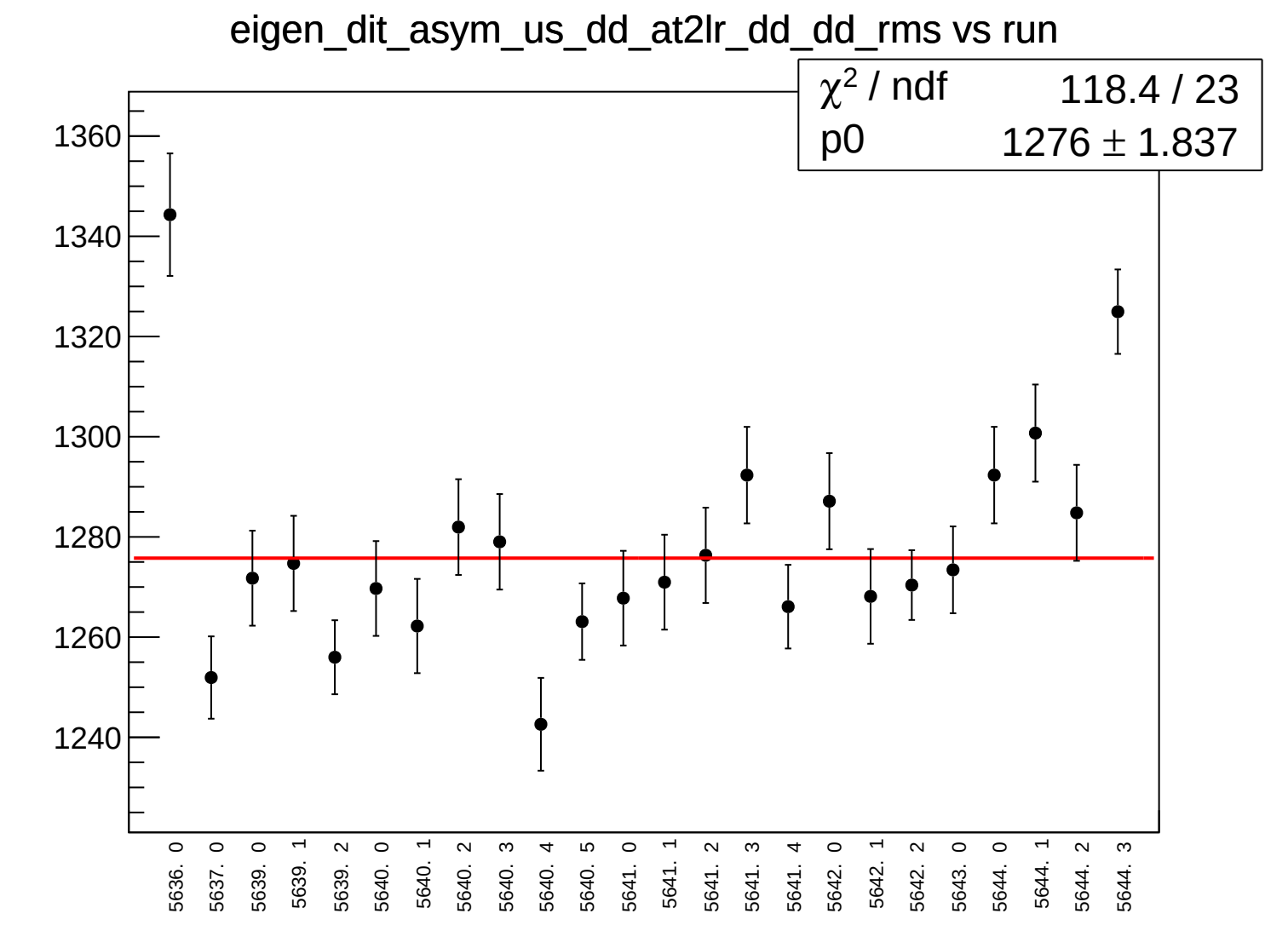

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 118.4 / 23
p0 1276 ± 1.837
1360
1340
1320
1300
1280
1260
1240
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

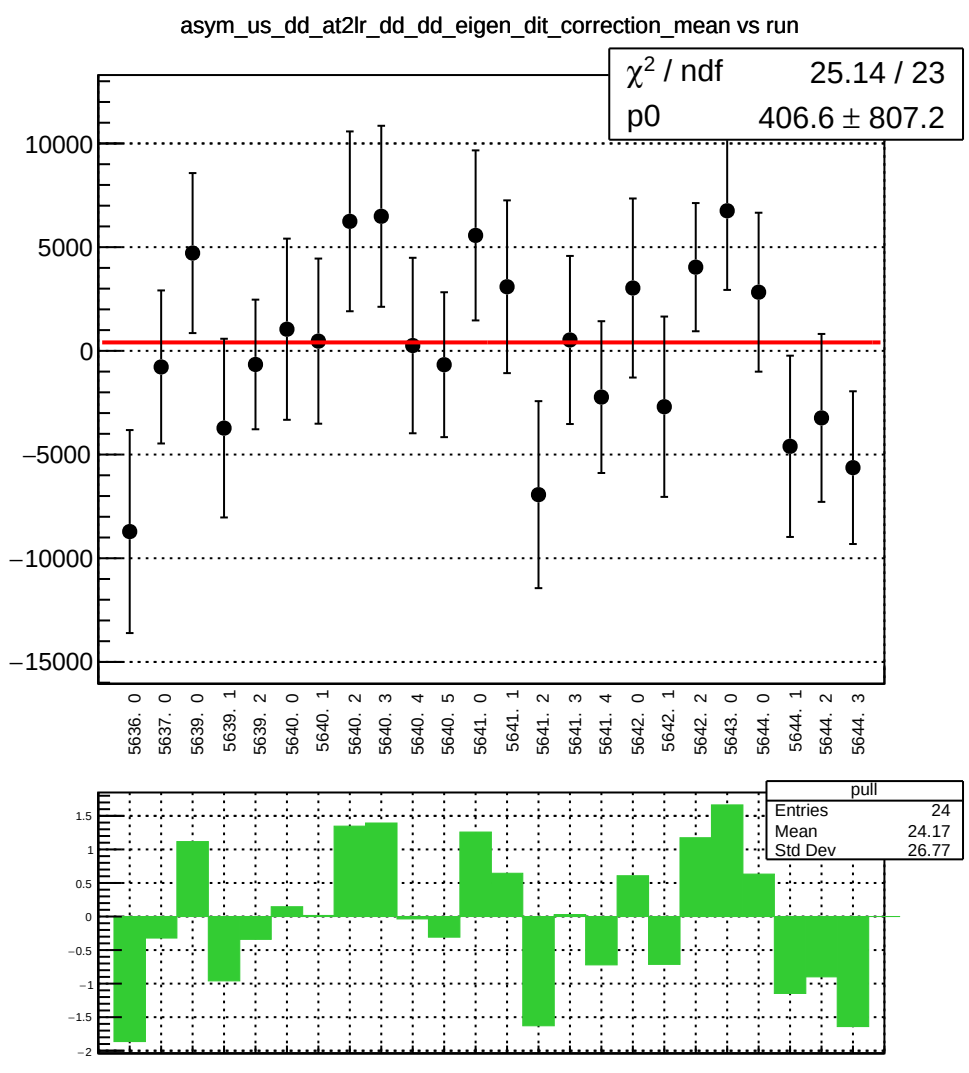

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 25.14 / 23
p0 406.6 ± 807.2
10000
5000
0
−5000
−10000
−15000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 24.16
Std Dev 26.78
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.02269
Std Dev 1.023
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

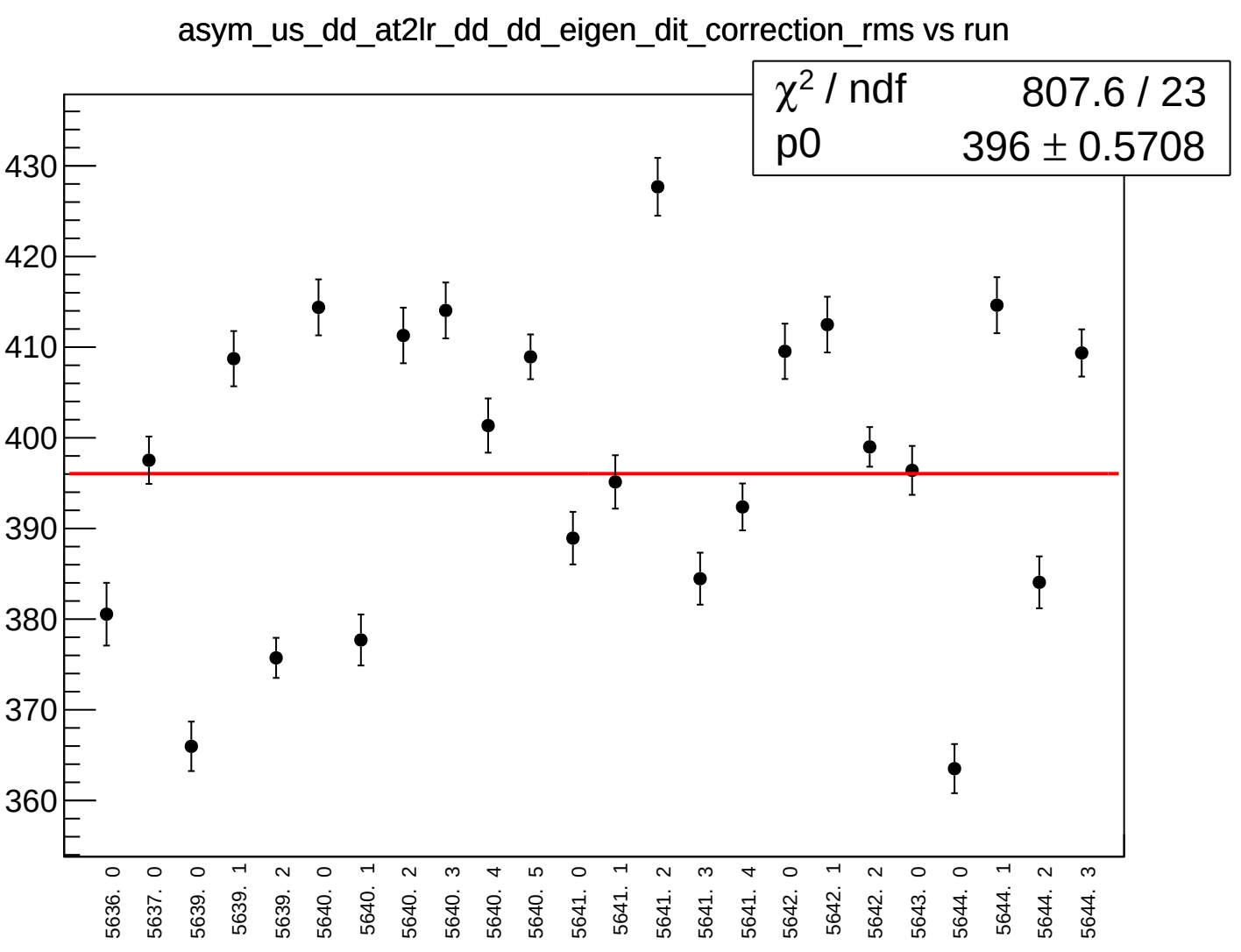

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 807.6 / 23
p0 396 ± 0.5708
430
420
410
400
390
380
370
360
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

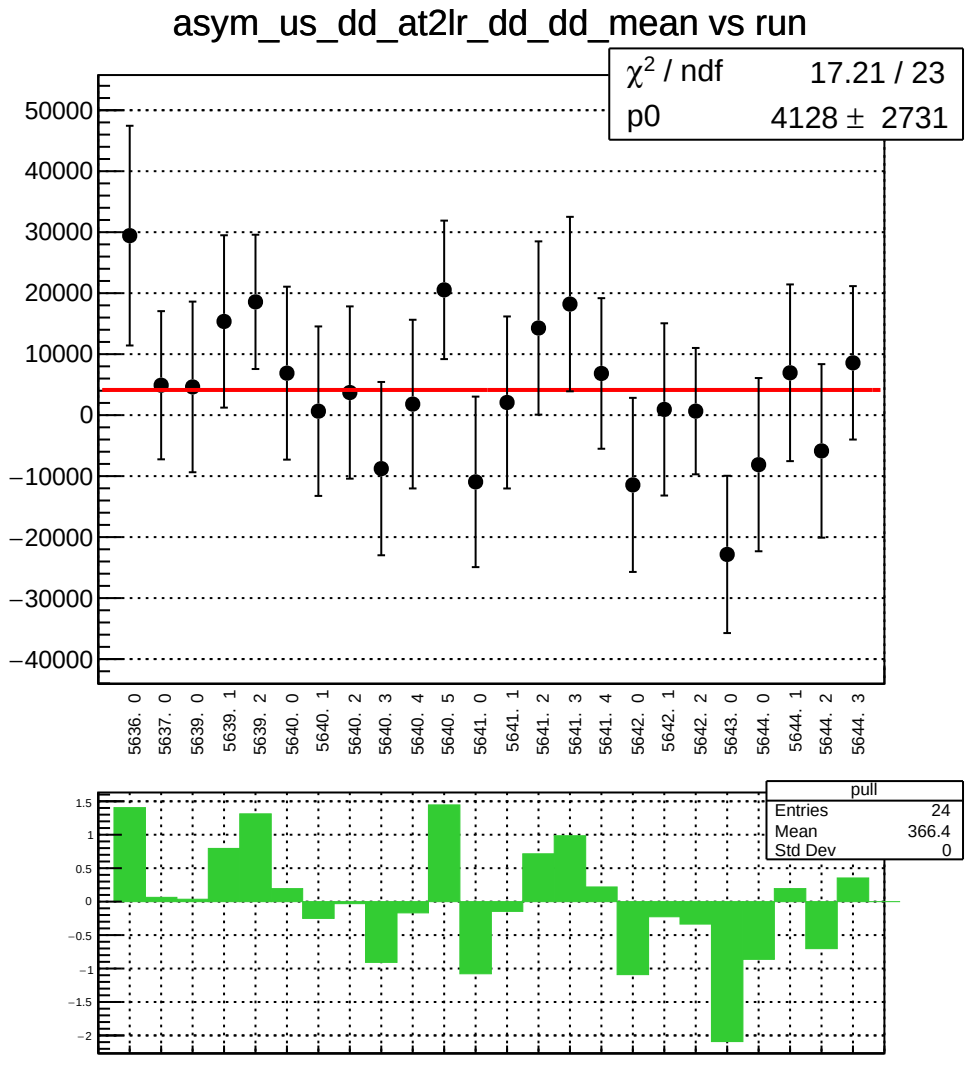

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 12.75 / 23
p0 4524 ± 2598
40000
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 208.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

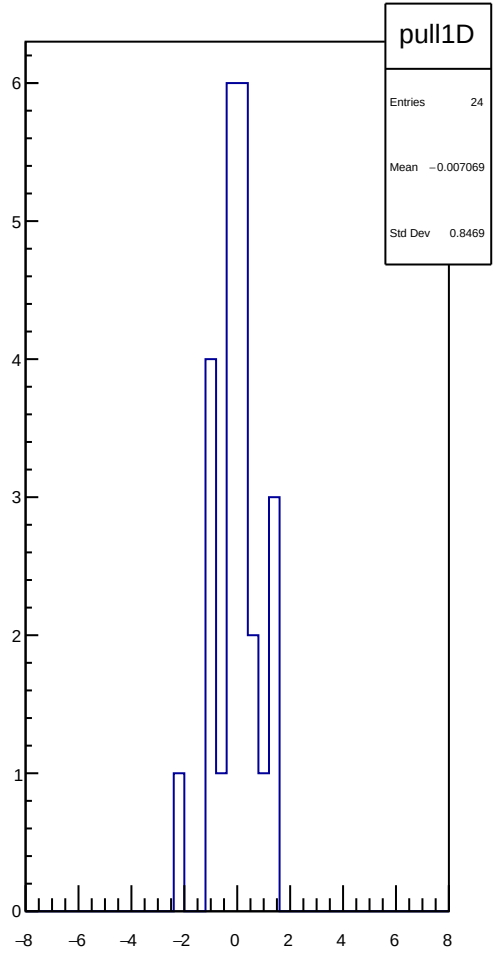

pull1D
Entries 24
Mean −0.01391
Std Dev 0.7287
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

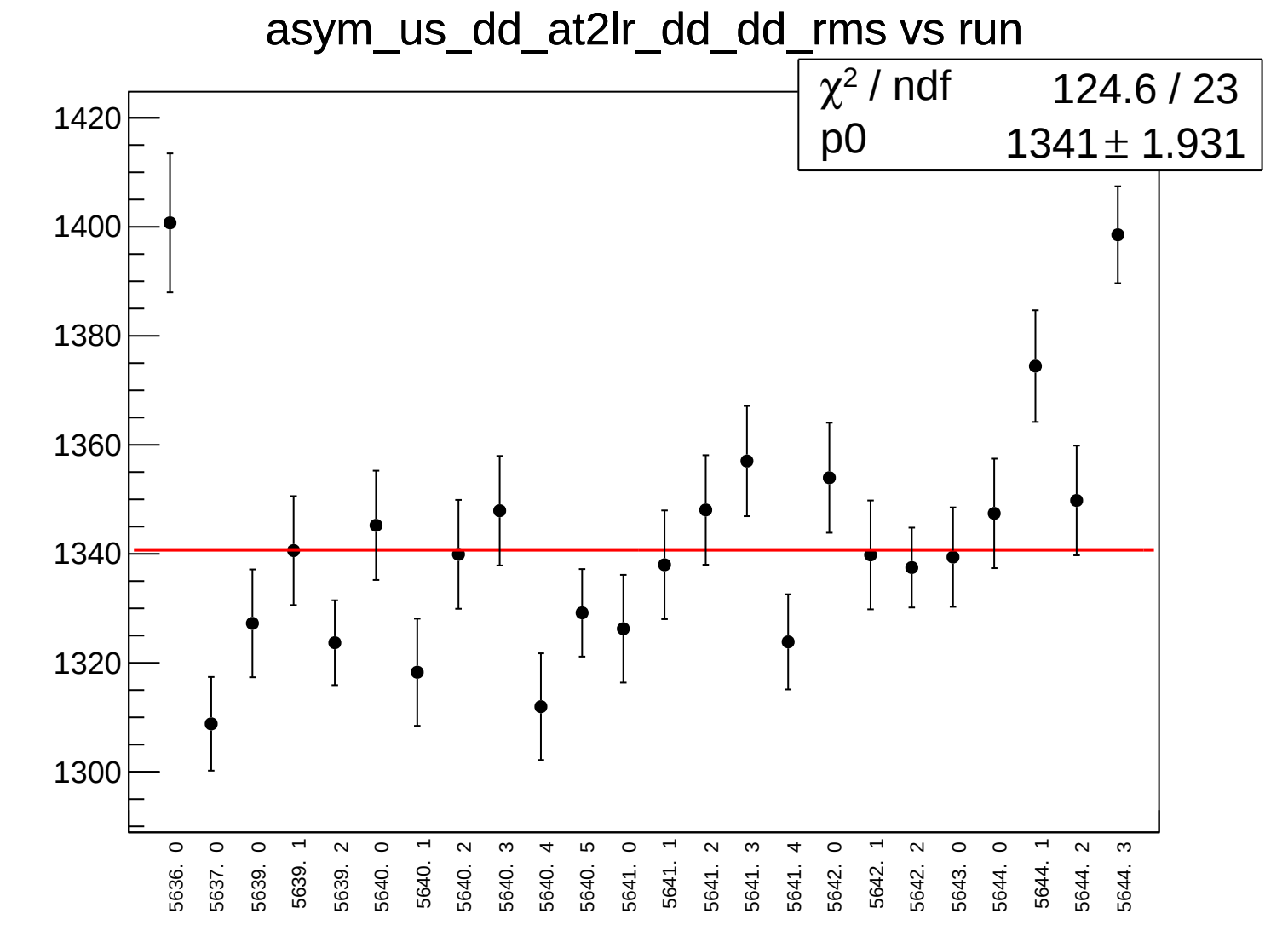

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 118.4 / 23
p0 1276 ± 1.837
1360
1340
1320
1300
1280
1260
1240
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

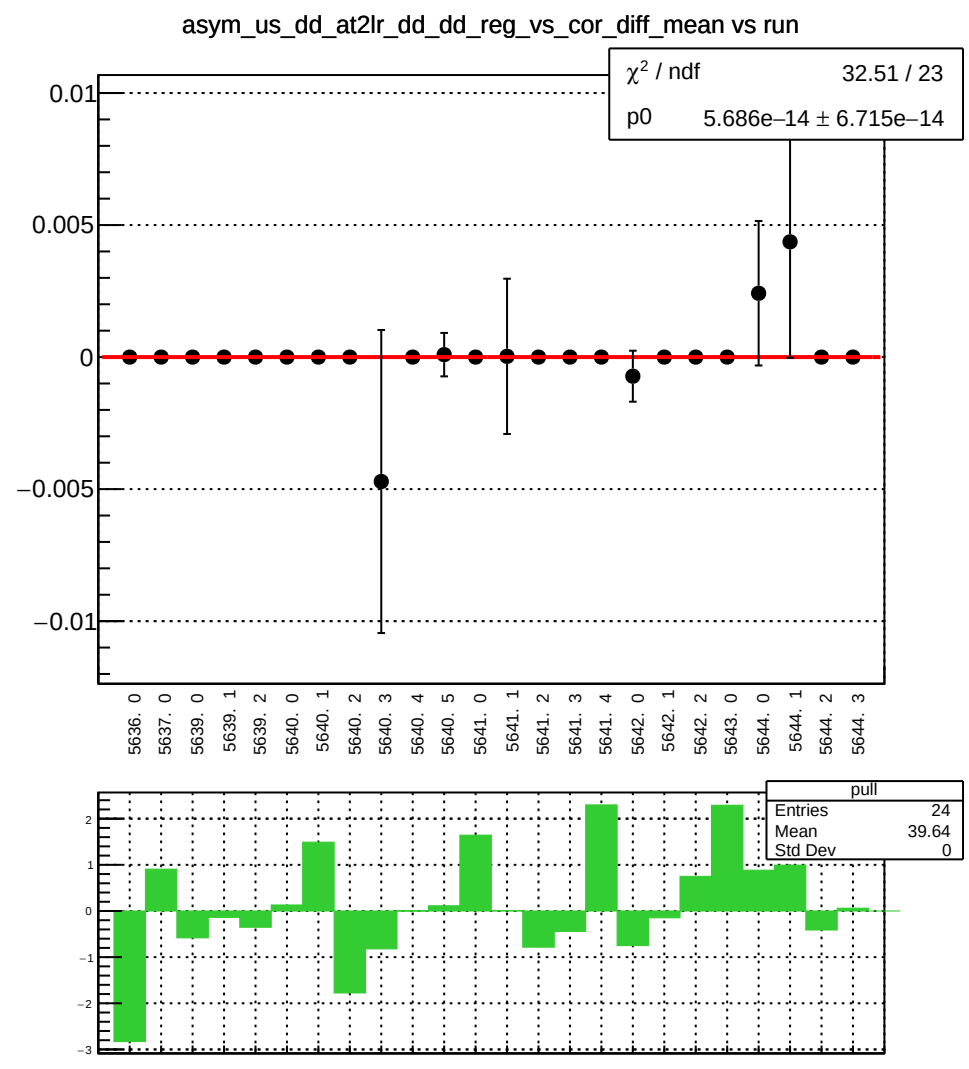

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 25.14 / 23
p0 406.6 ± 807.2
10000
5000
0
−5000
−10000
−15000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 24.17
Std Dev 26.77
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.02269
Std Dev 1.023
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

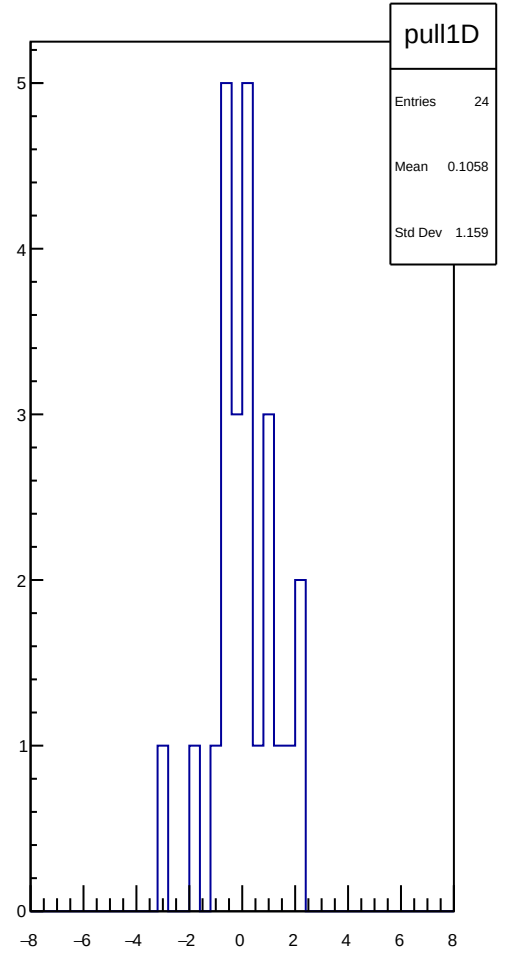

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 807.6 / 23
p0 396 ± 0.5708
430
420
410
400
390
380
370
360
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

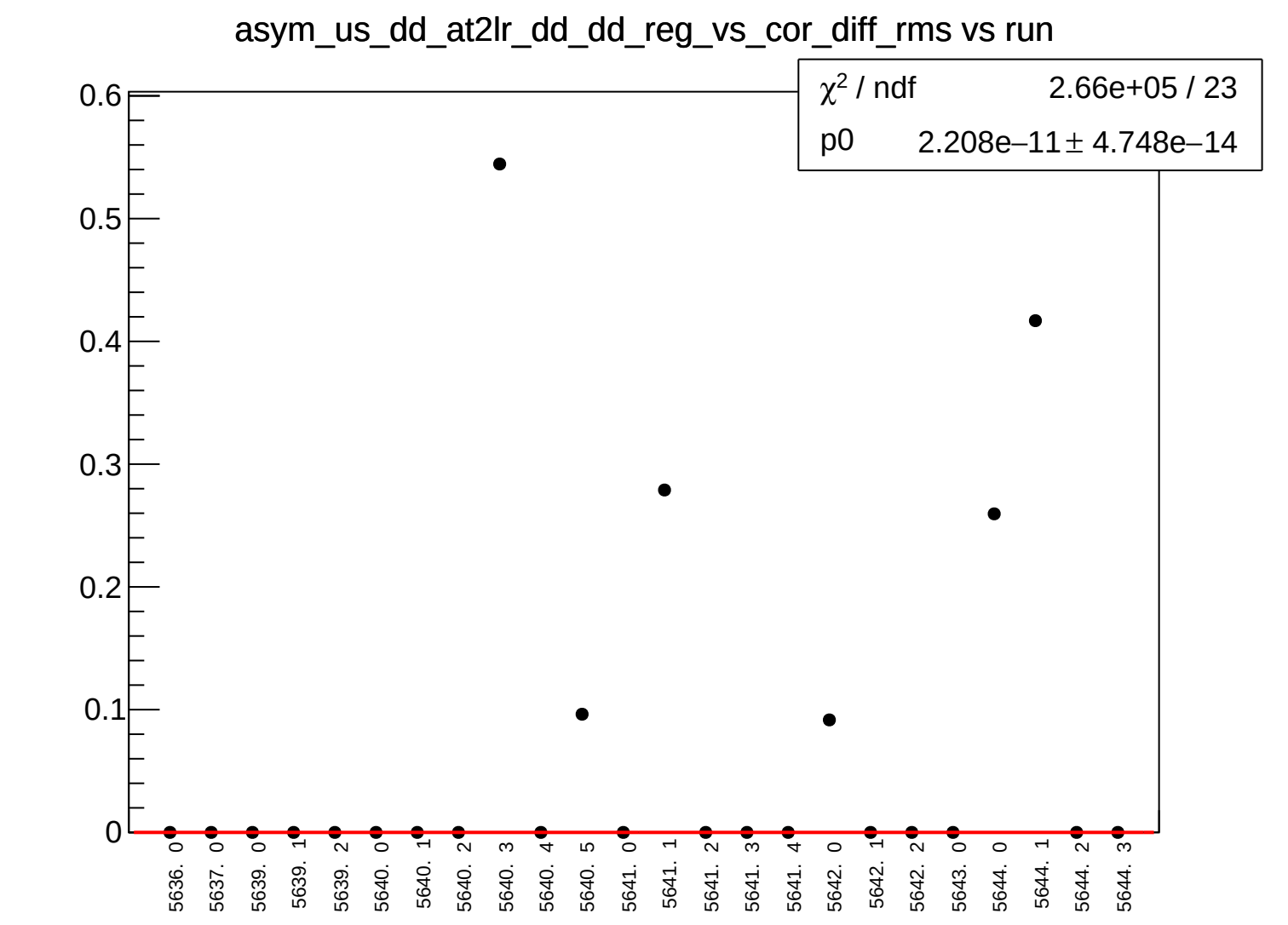

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 17.21 / 23
p0 4128 ± 2731
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 366.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

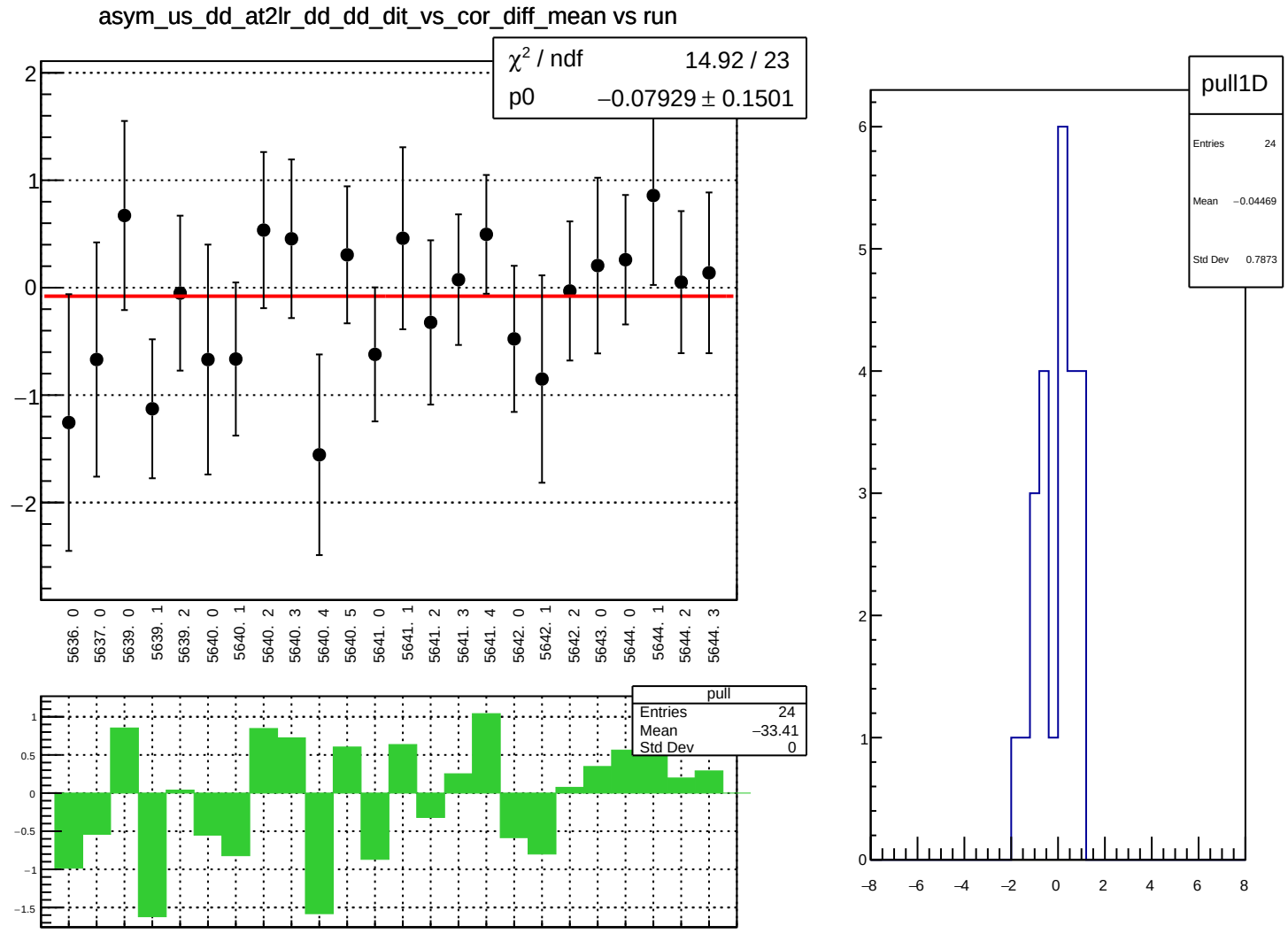

pull1D
Entries 24
Mean −0.007069
Std Dev 0.8469
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

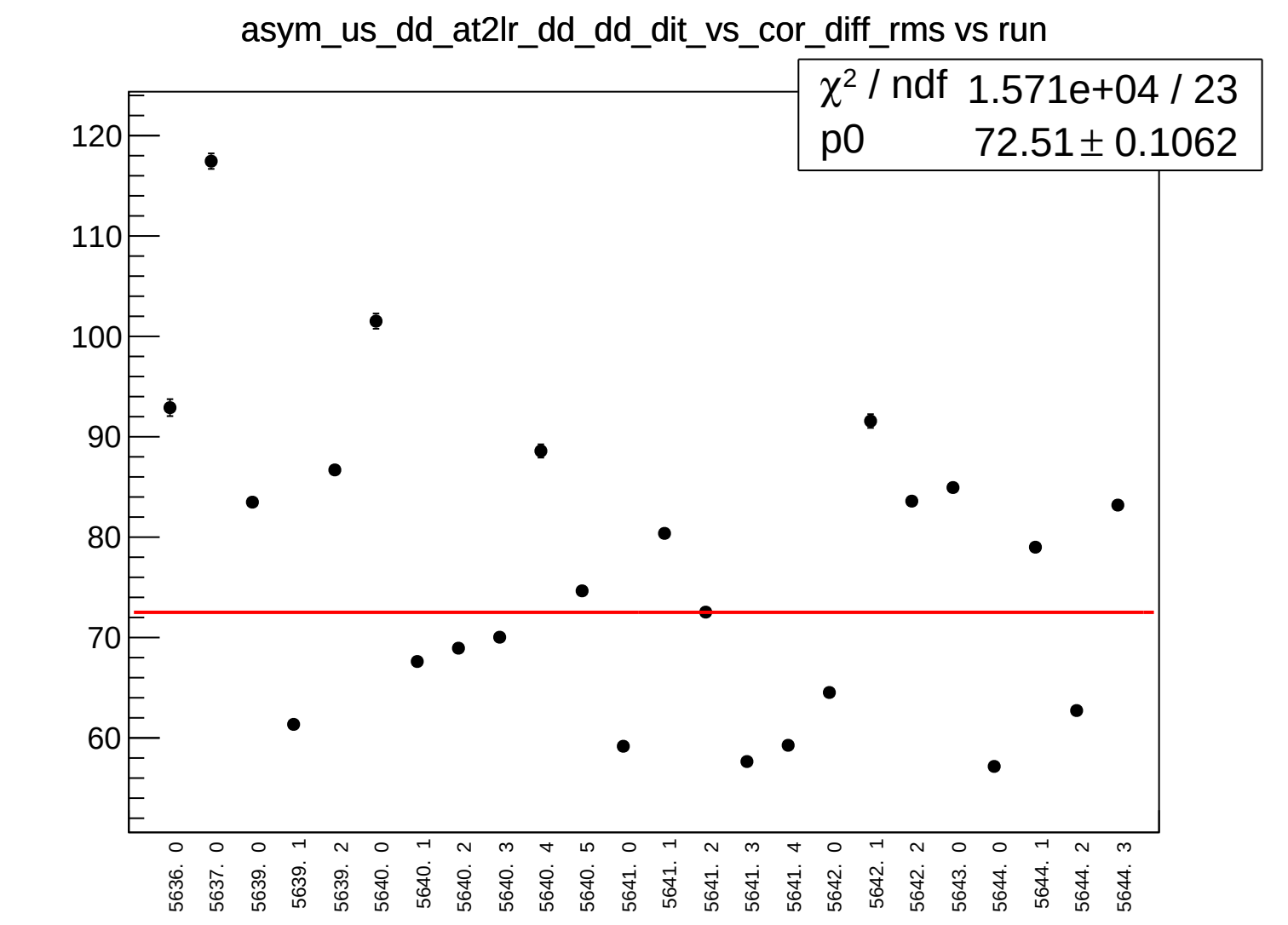

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 124.6 / 23
p0 1341 ± 1.931
1420
1400
1380
1360
1340
1320
1300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

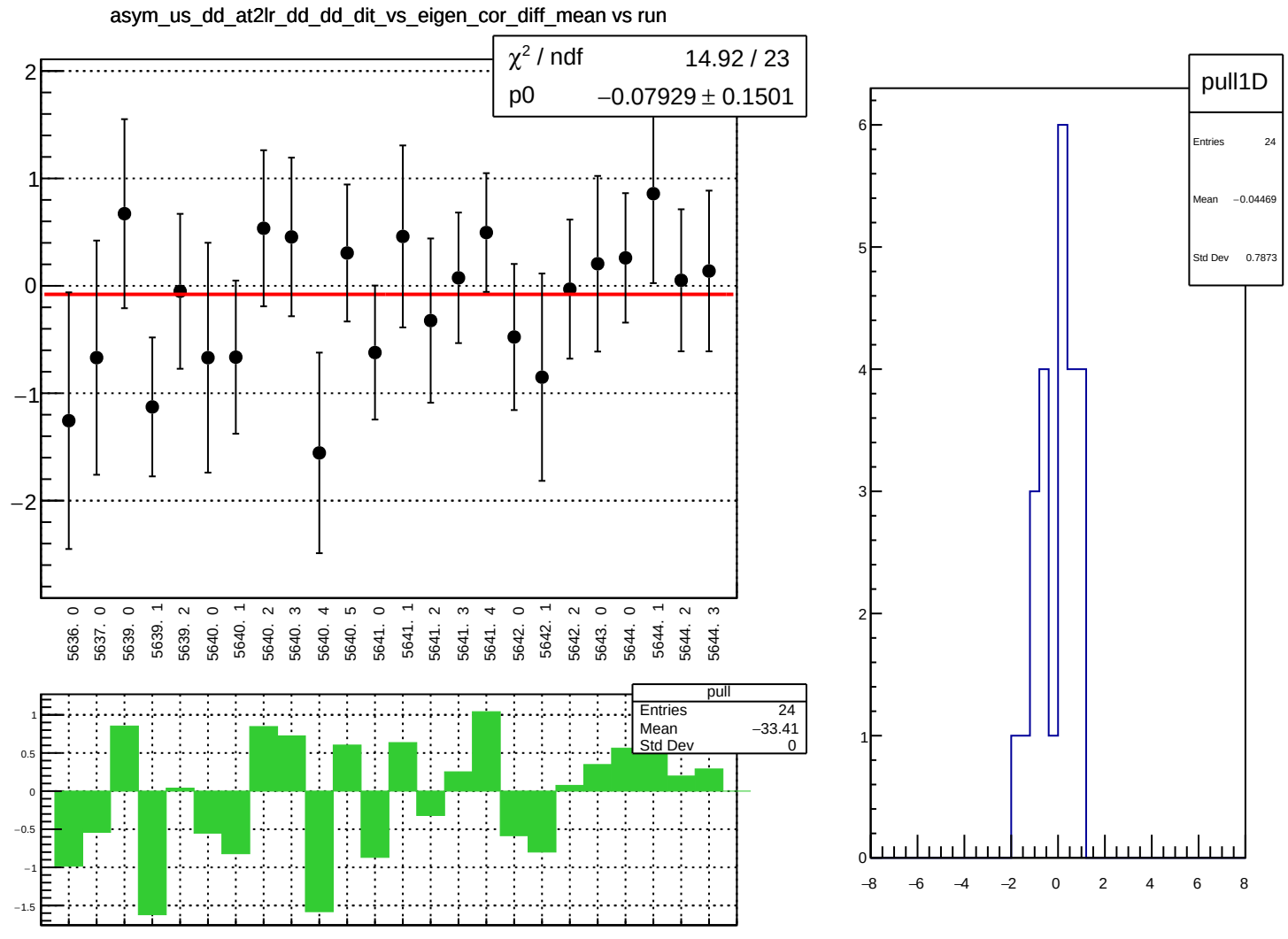

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 32.51 / 23
p0 5.686e−14 ± 6.715e−14
0.01
0.005
0
−0.005
−0.01
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 39.64
Std Dev 0
2
1
0
−1
−2
−3

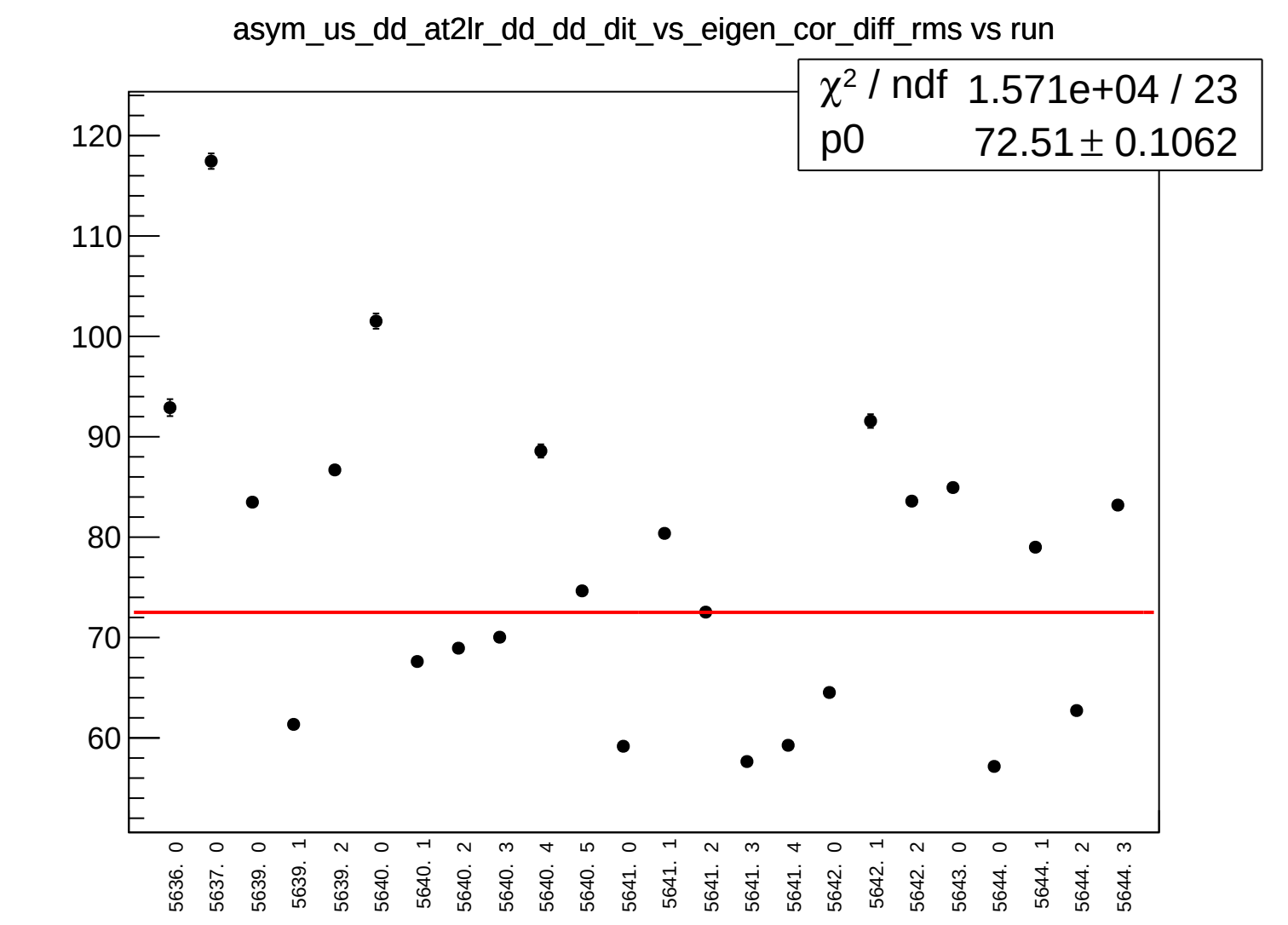

pull1D
Entries 24
Mean 0.1058
Std Dev 1.159
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

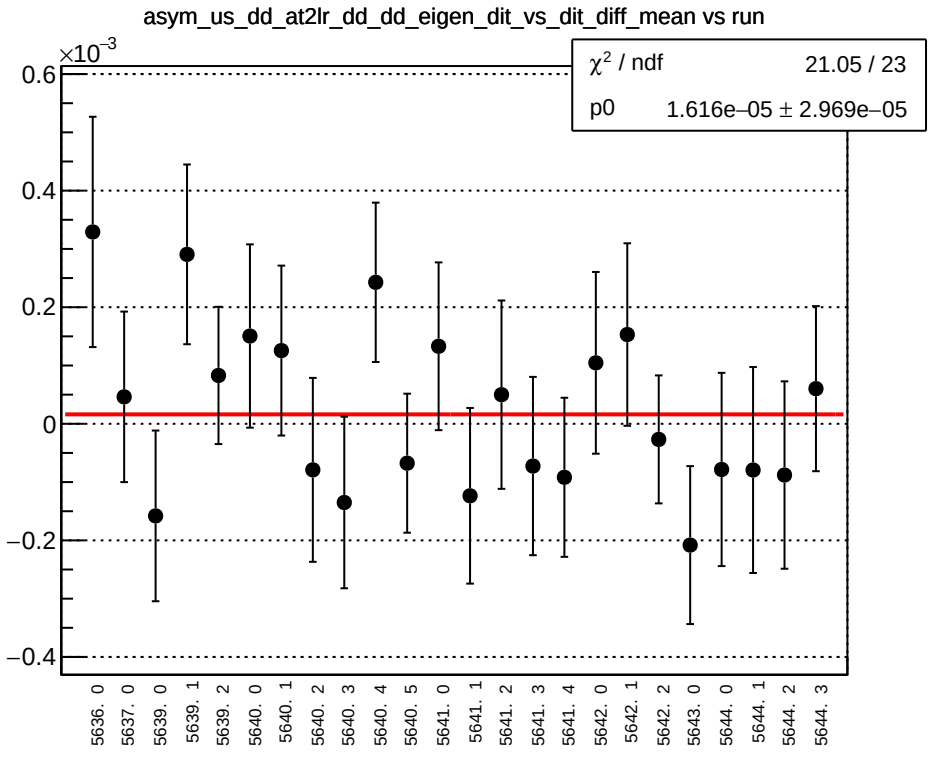

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.66e+05 / 23
p0 2.208e−11 ± 4.748e−14
0.6
0.5
0.4
0.3
0.2
0.1
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

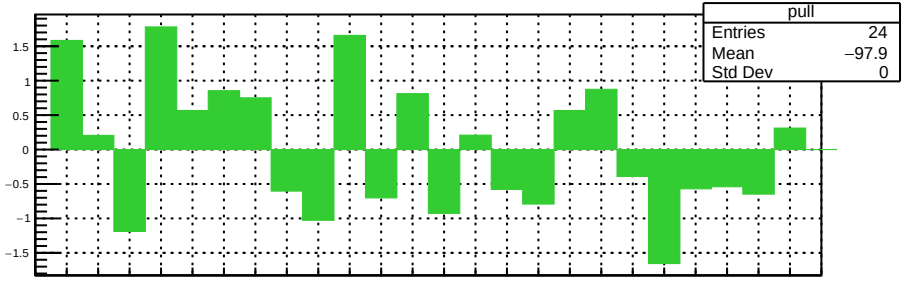

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 14.92 / 23
p0 −0.07929 ± 0.1501
2
1
0
−1
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −33.41
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.04469
Std Dev 0.7873
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

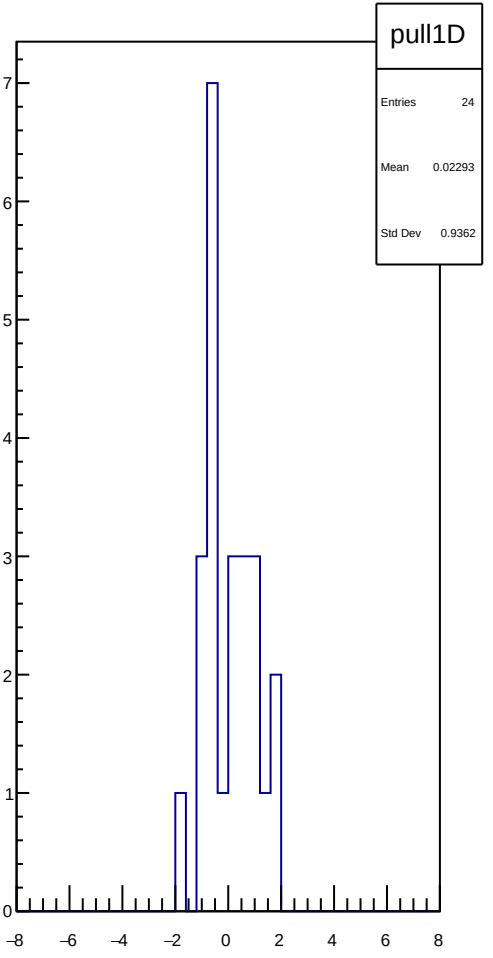

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.571e+04 / 23
p0 72.51 ± 0.1062
120
110
100
90
80
70
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

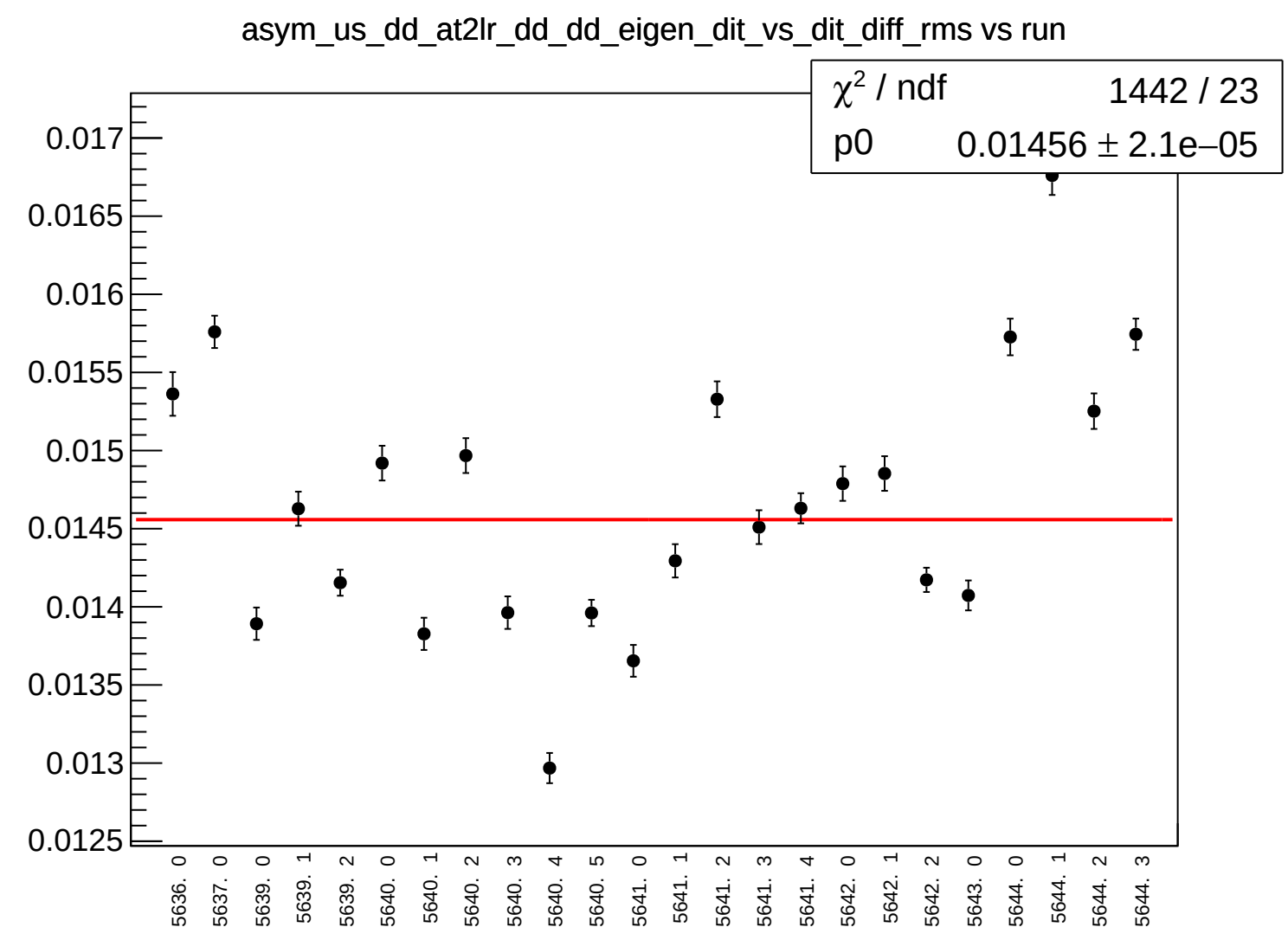

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 14.92 / 23
p0 −0.07929 ± 0.1501
2
1
0
−1
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −33.41
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.04469
Std Dev 0.7873
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.571e+04 / 23
p0 72.51 ± 0.1062
120
110
100
90
80
70
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 21.05 / 23
p0 1.616e−05 ± 2.969e−05
0.6
0.4
0.2
0
−0.2
−0.4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


pull
Entries 24
Mean −97.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean 0.02293
Std Dev 0.9362
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1442 / 23
p0 0.01456 ± 2.1e−05
0.017
0.0165
0.016
0.0155
0.015
0.0145
0.014
0.0135
0.013
0.0125
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
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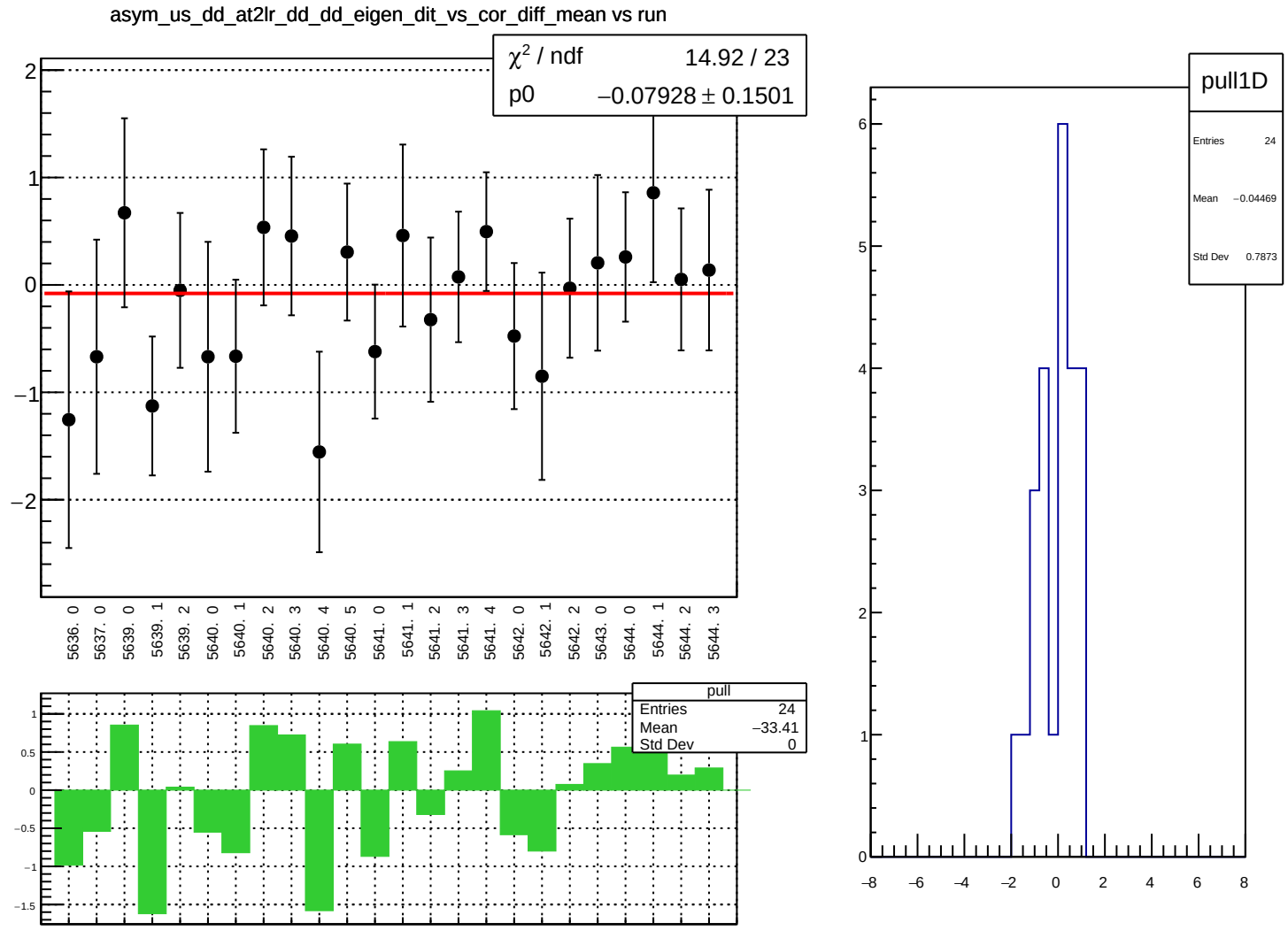
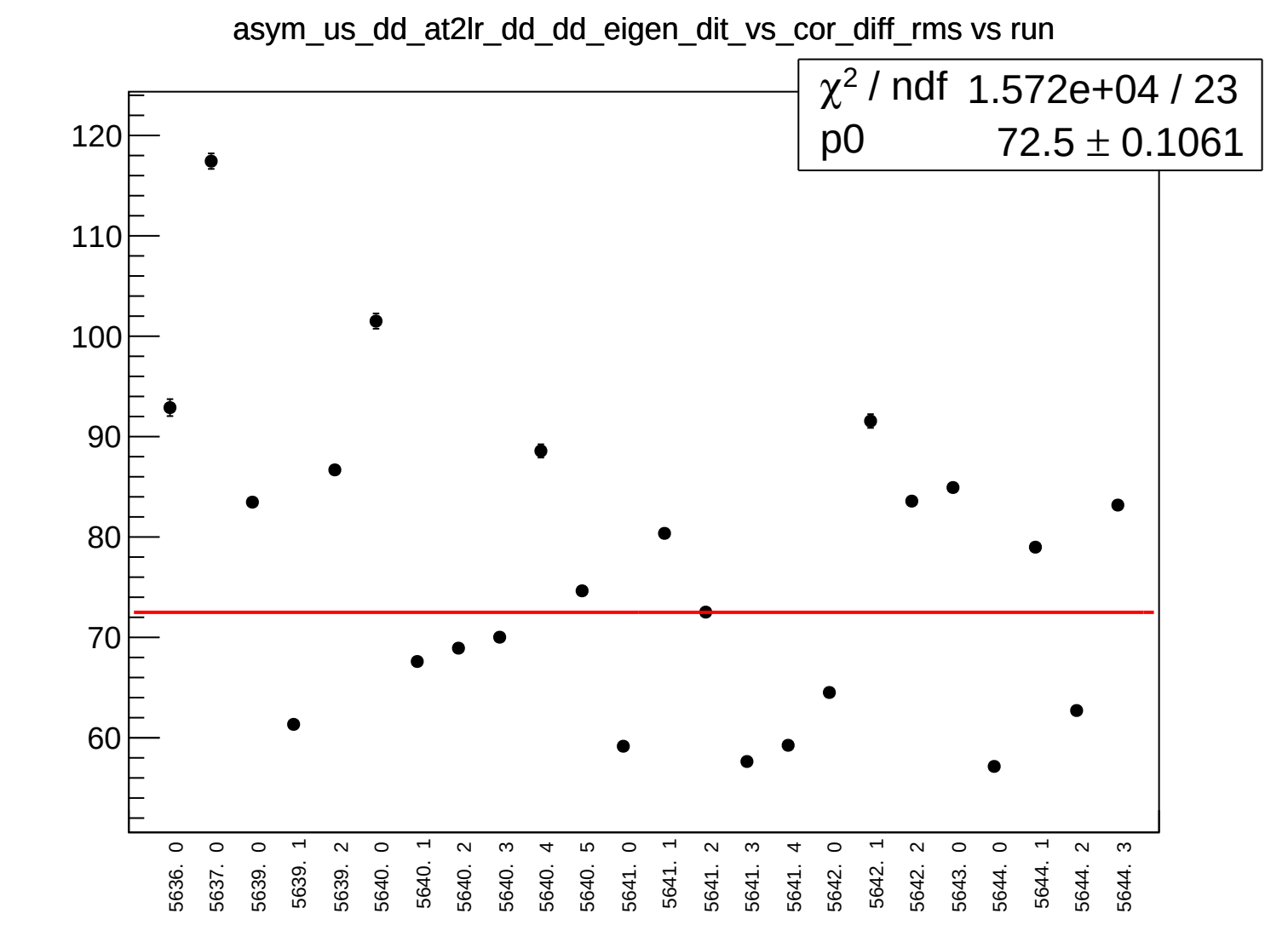
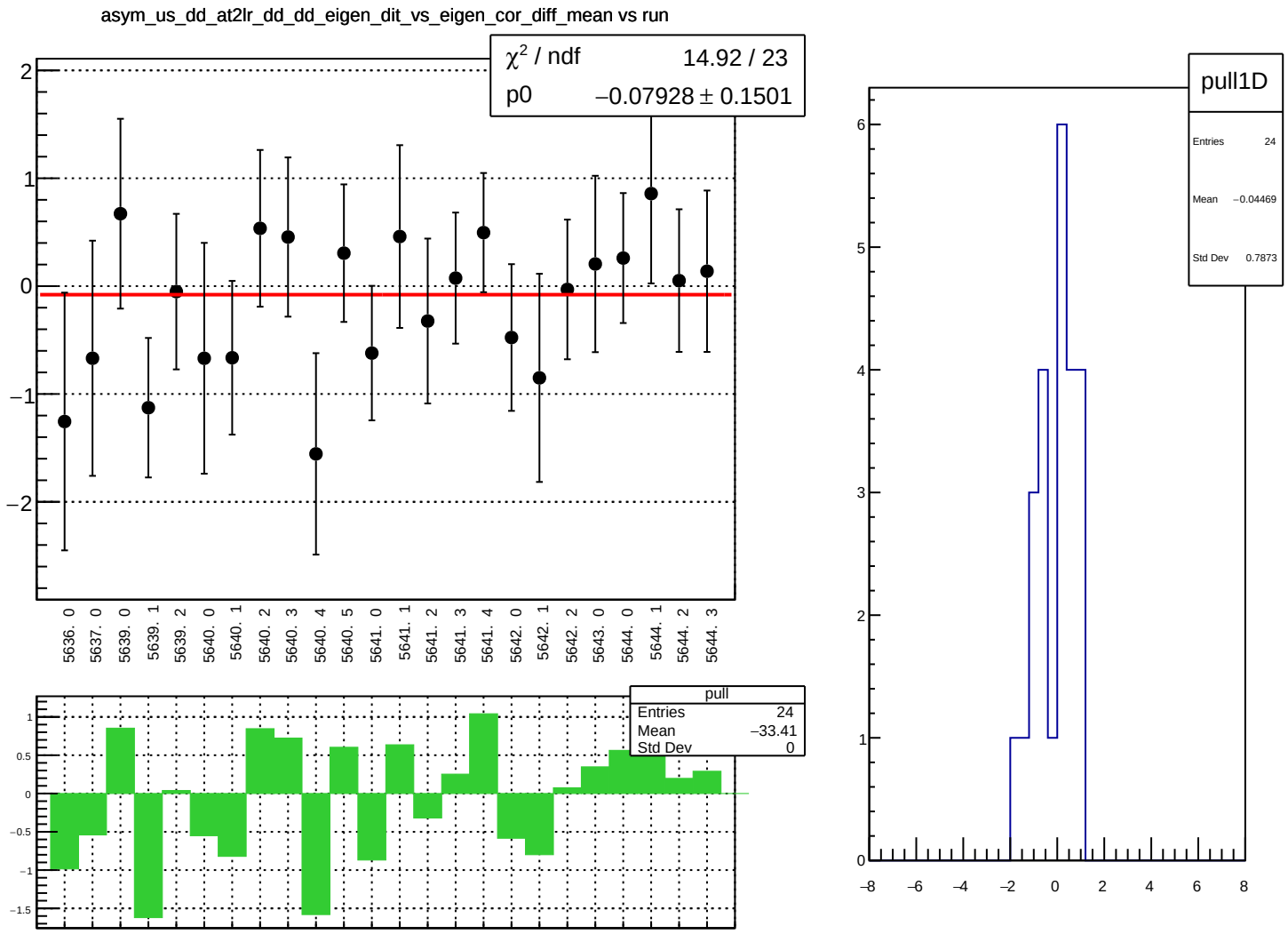
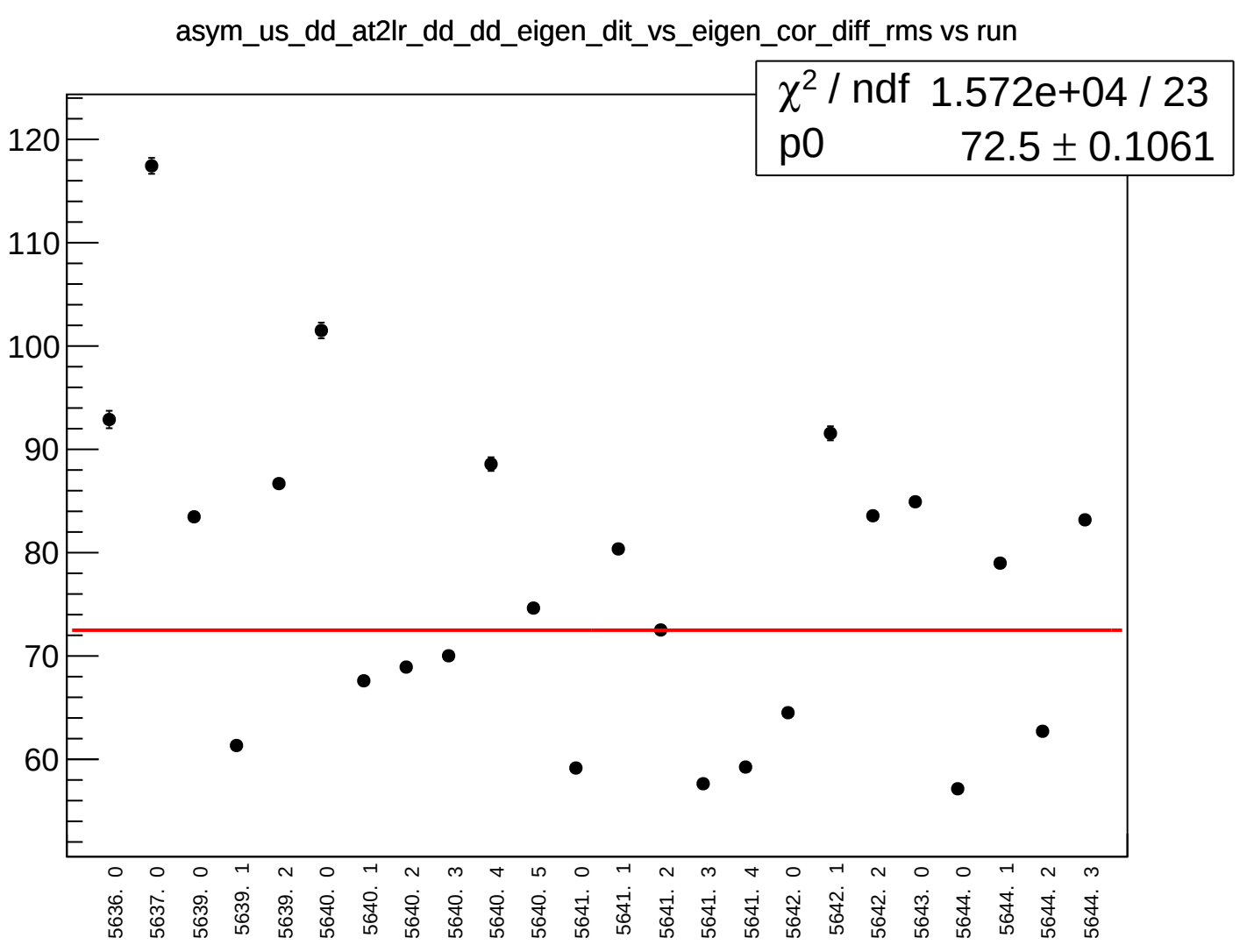
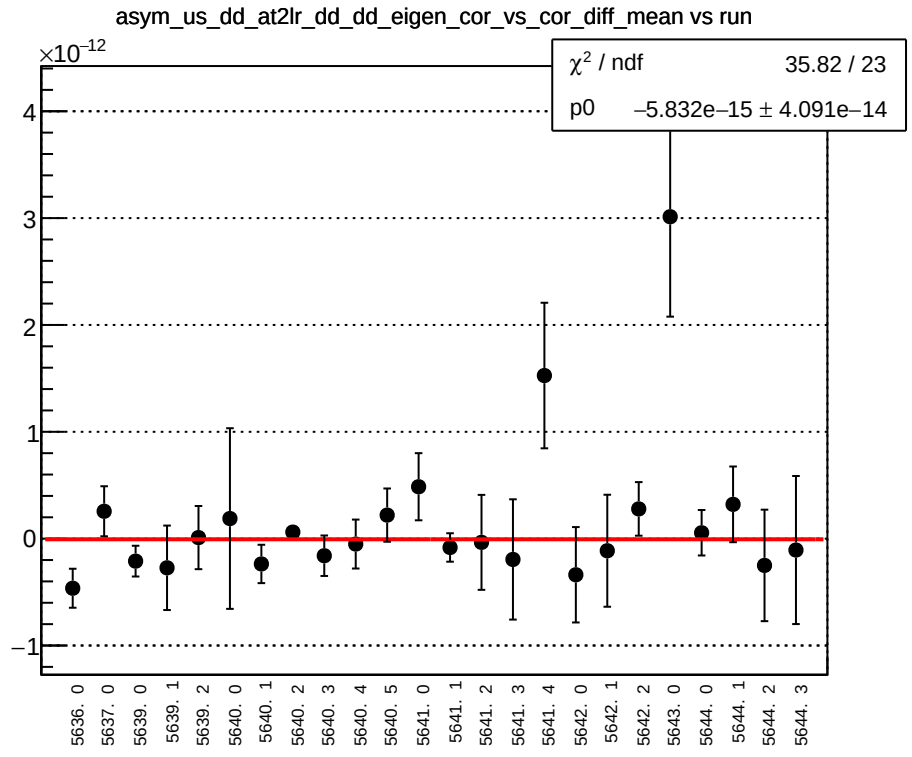
5644. 2
5644. 3

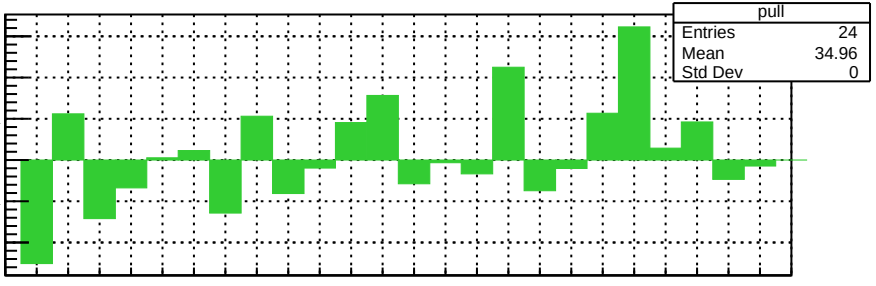

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 14.92 / 23
p0 −0.07928 ± 0.1501
2
1
0
−1
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −33.41
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.04469
Std Dev 0.7873
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

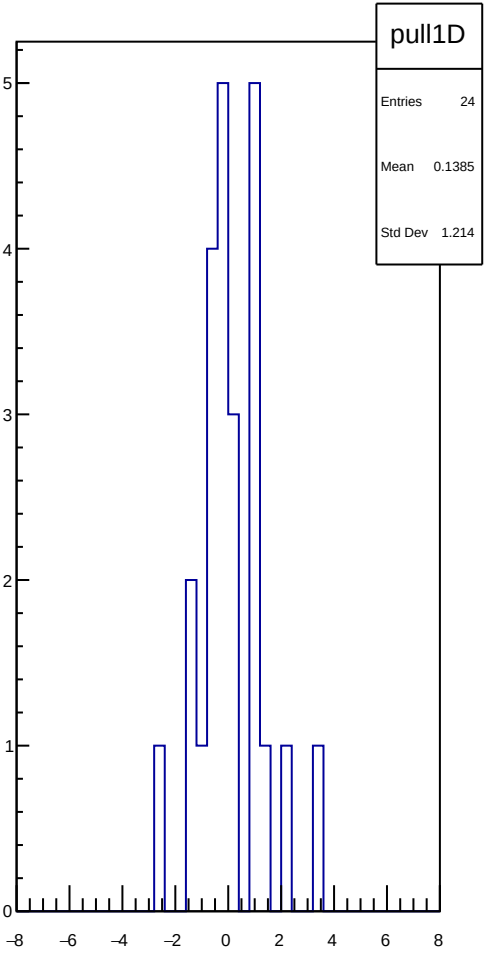

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.572e+04 / 23
p0 72.5 ± 0.1061
120
110
100
90
80
70
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

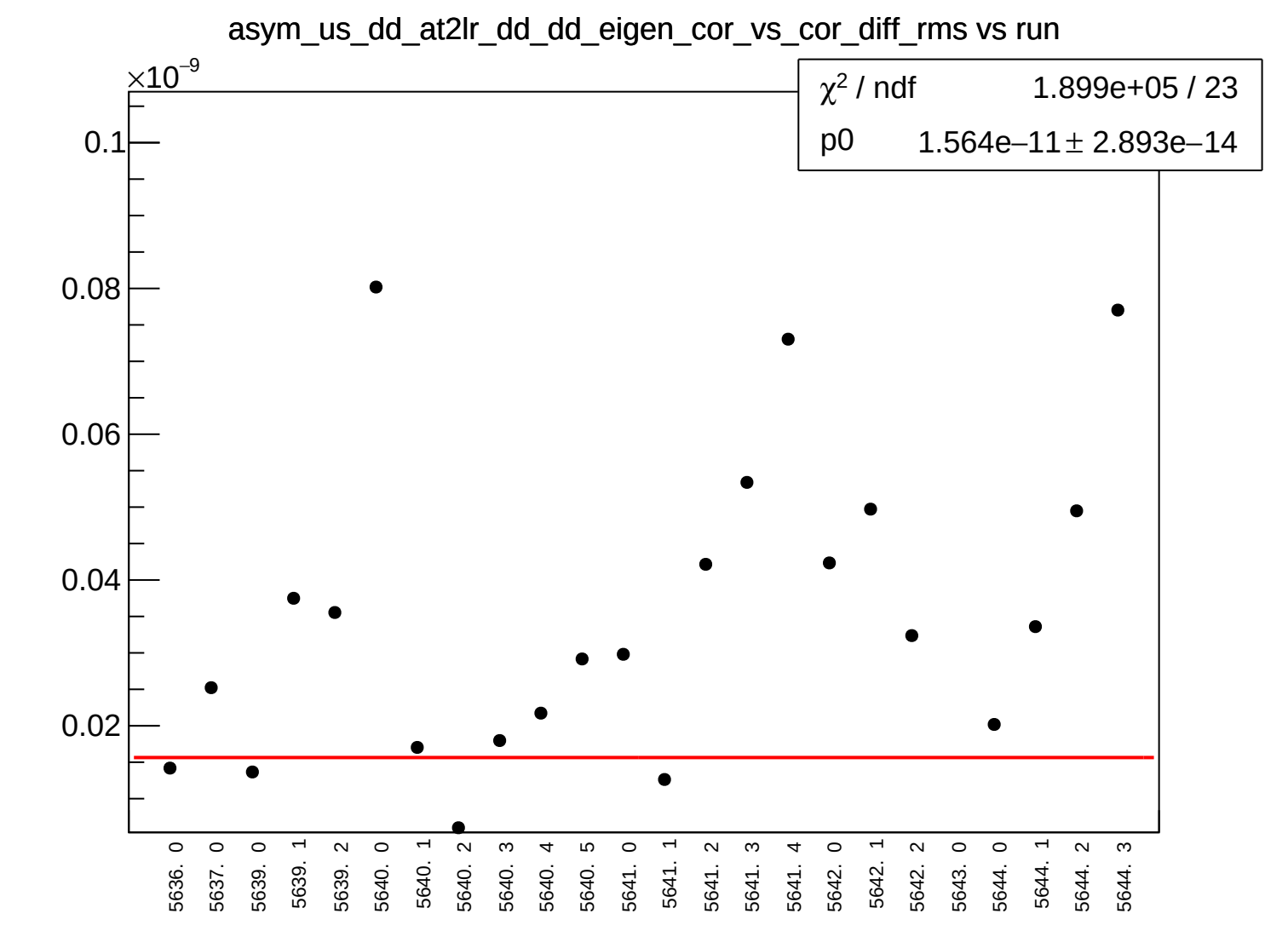

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 14.92 / 23
p0 −0.07928 ± 0.1501
2
1
0
−1
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −33.41
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.04469
Std Dev 0.7873
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

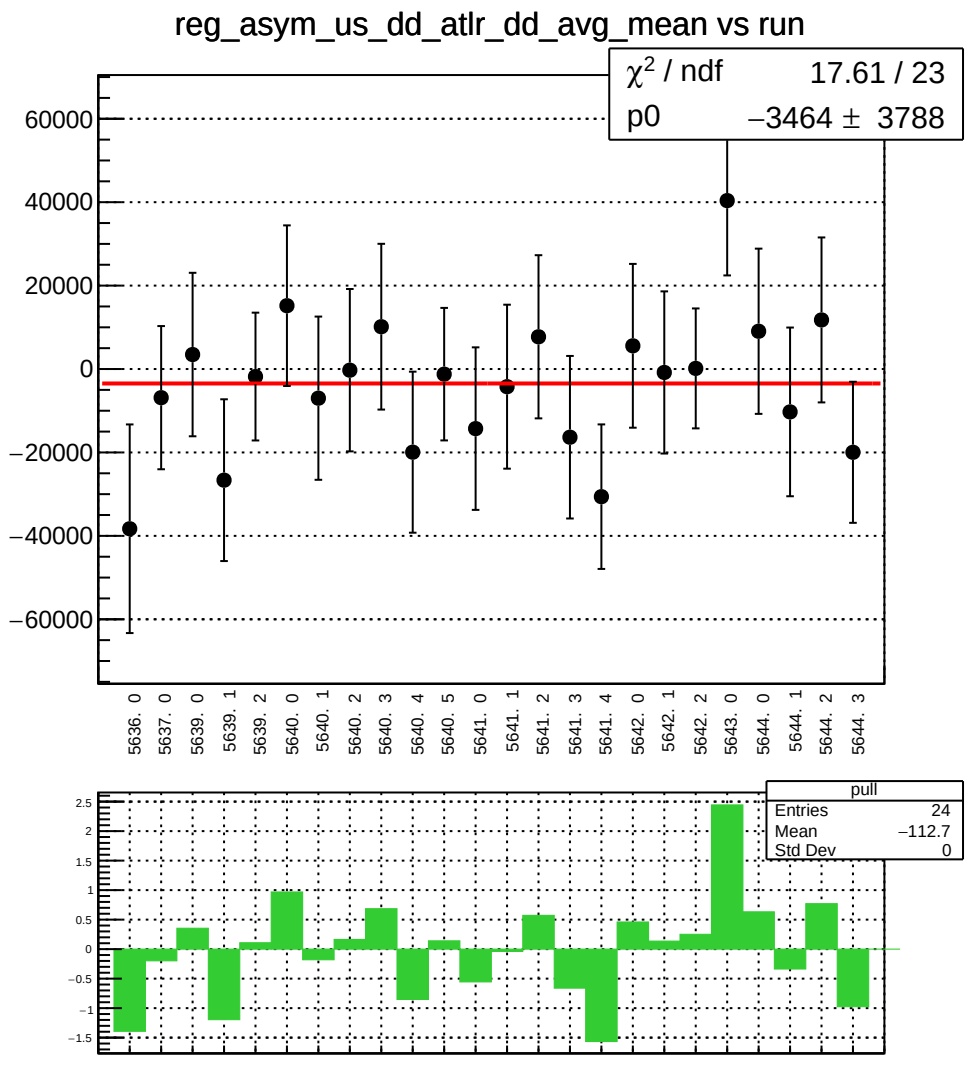

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.572e+04 / 23
p0 72.5 ± 0.1061
120
110
100
90
80
70
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

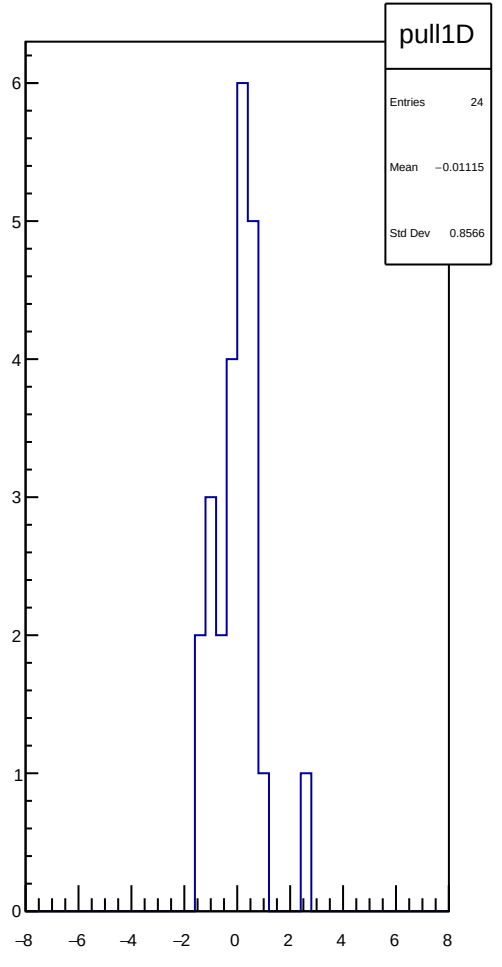

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 35.82 / 23
p0 −5.832e−15 ± 4.091e−14
4
3
2
1
0
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

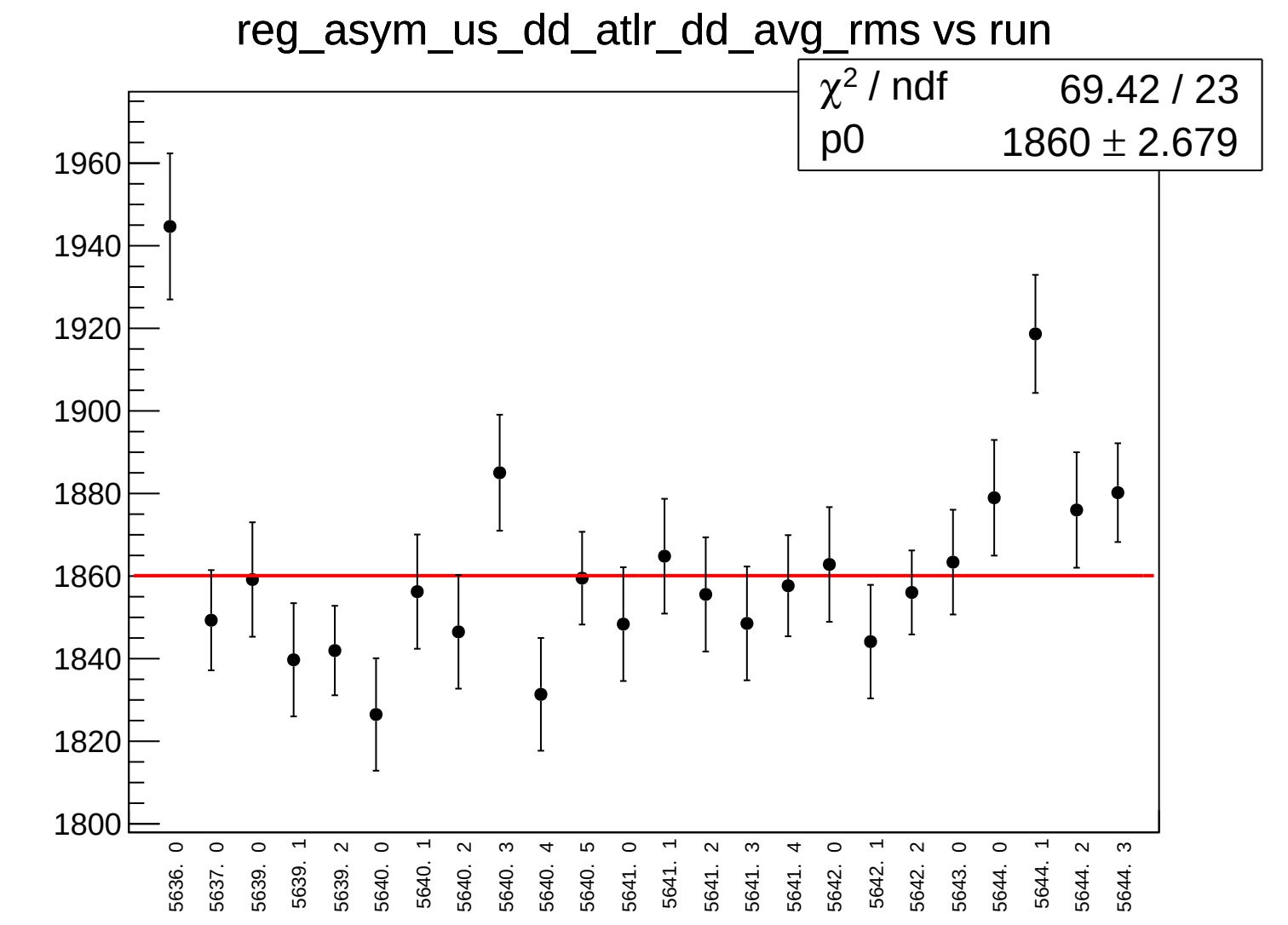

pull
Entries 24
Mean 34.96
Std Dev 0
3
2
1
0
−1
−2

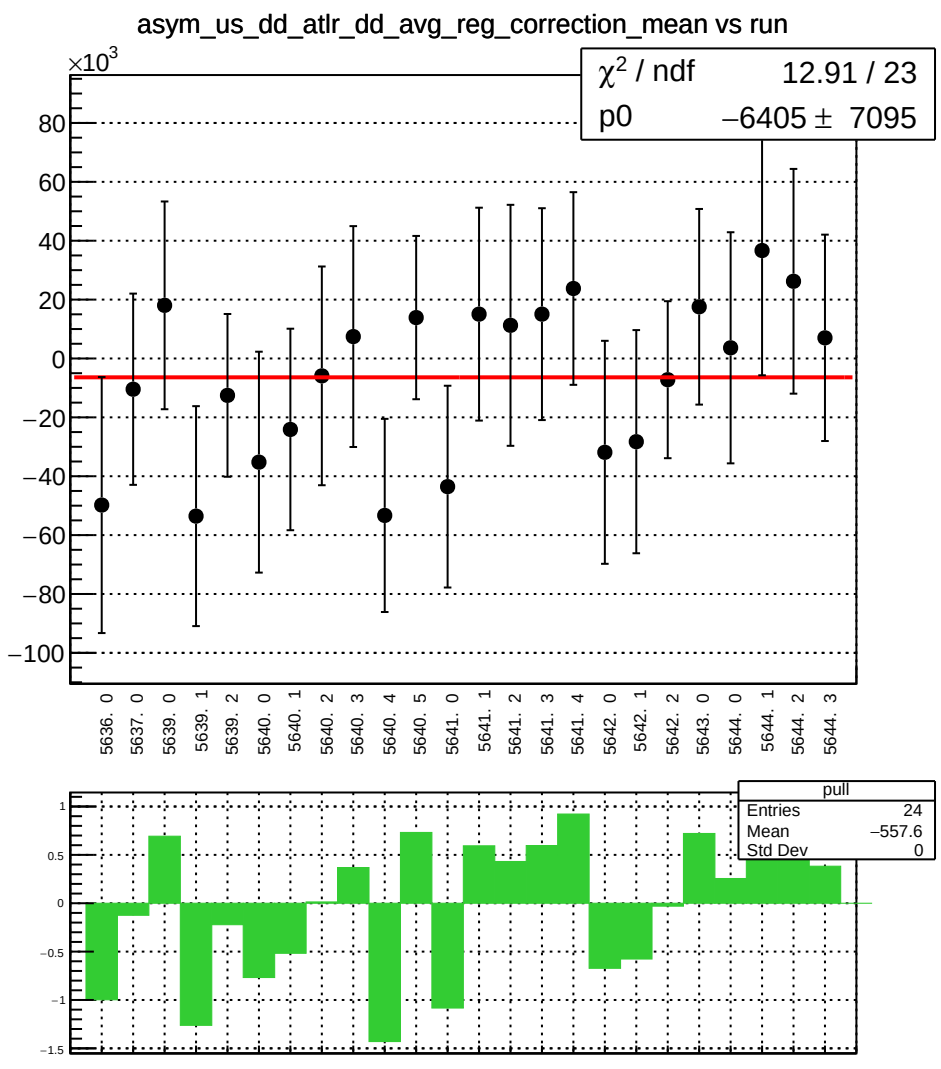

pull1D
Entries 24
Mean 0.1385
Std Dev 1.214
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

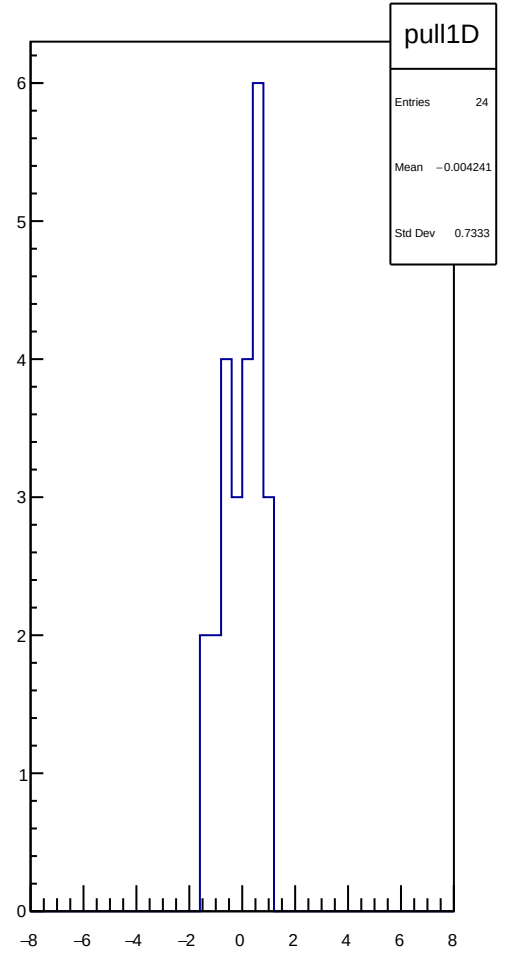

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.899e+05 / 23
p0 1.564e−11 ± 2.893e−14
0.1
0.08
0.06
0.04
0.02
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

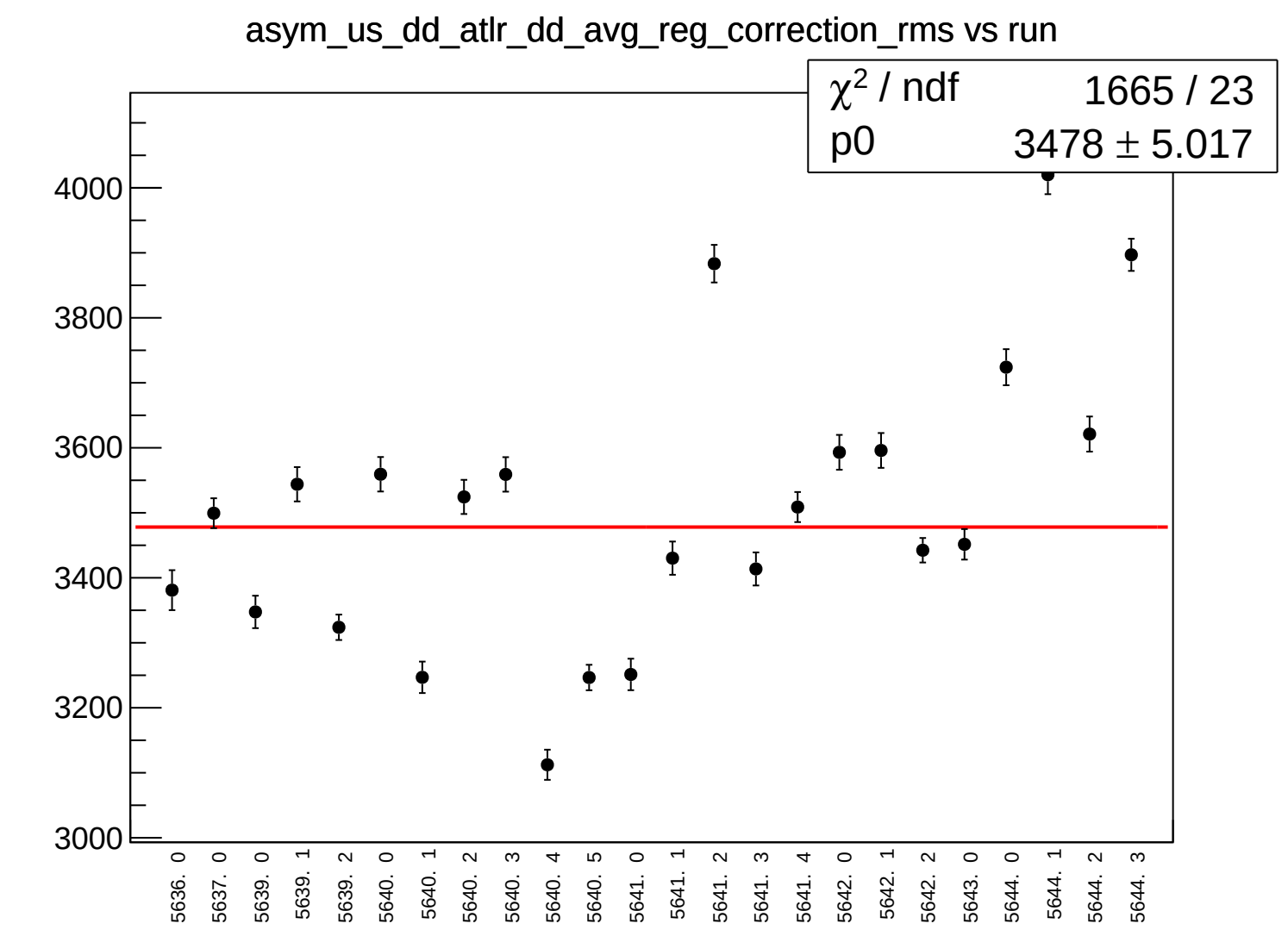

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 17.61 / 23
p0 −3464 ± 3788
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −112.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

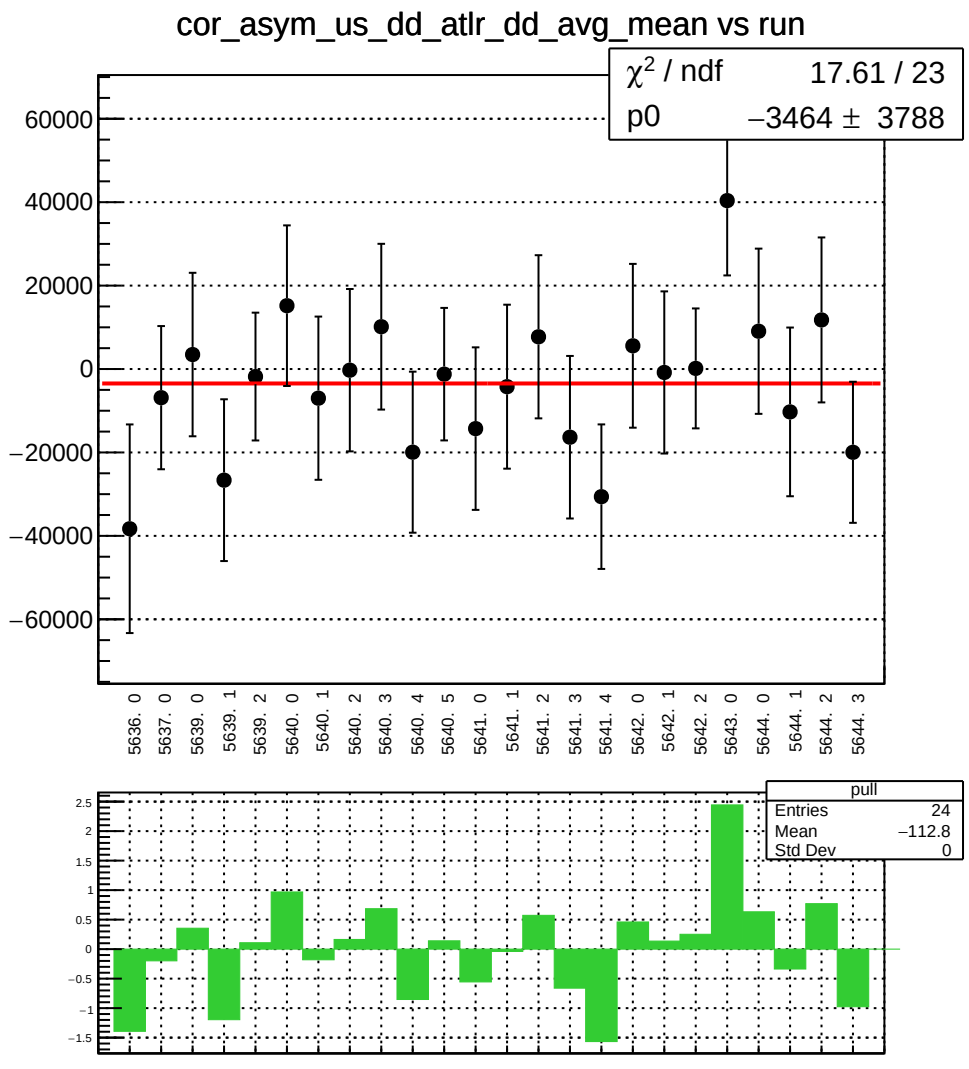

pull1D
Entries 24
Mean −0.01115
Std Dev 0.8566
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

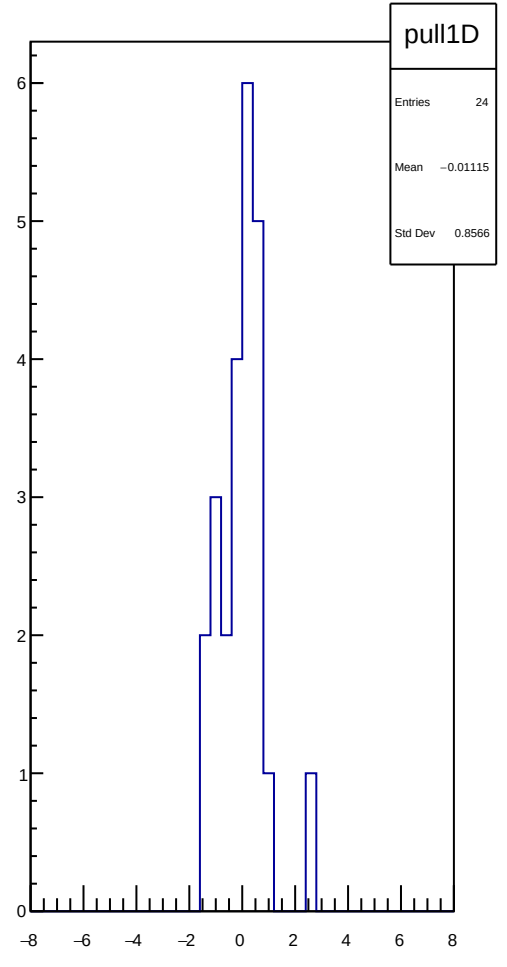

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 69.42 / 23
p0 1860 ± 2.679
1960
1940
1920
1900
1880
1860
1840
1820
1800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

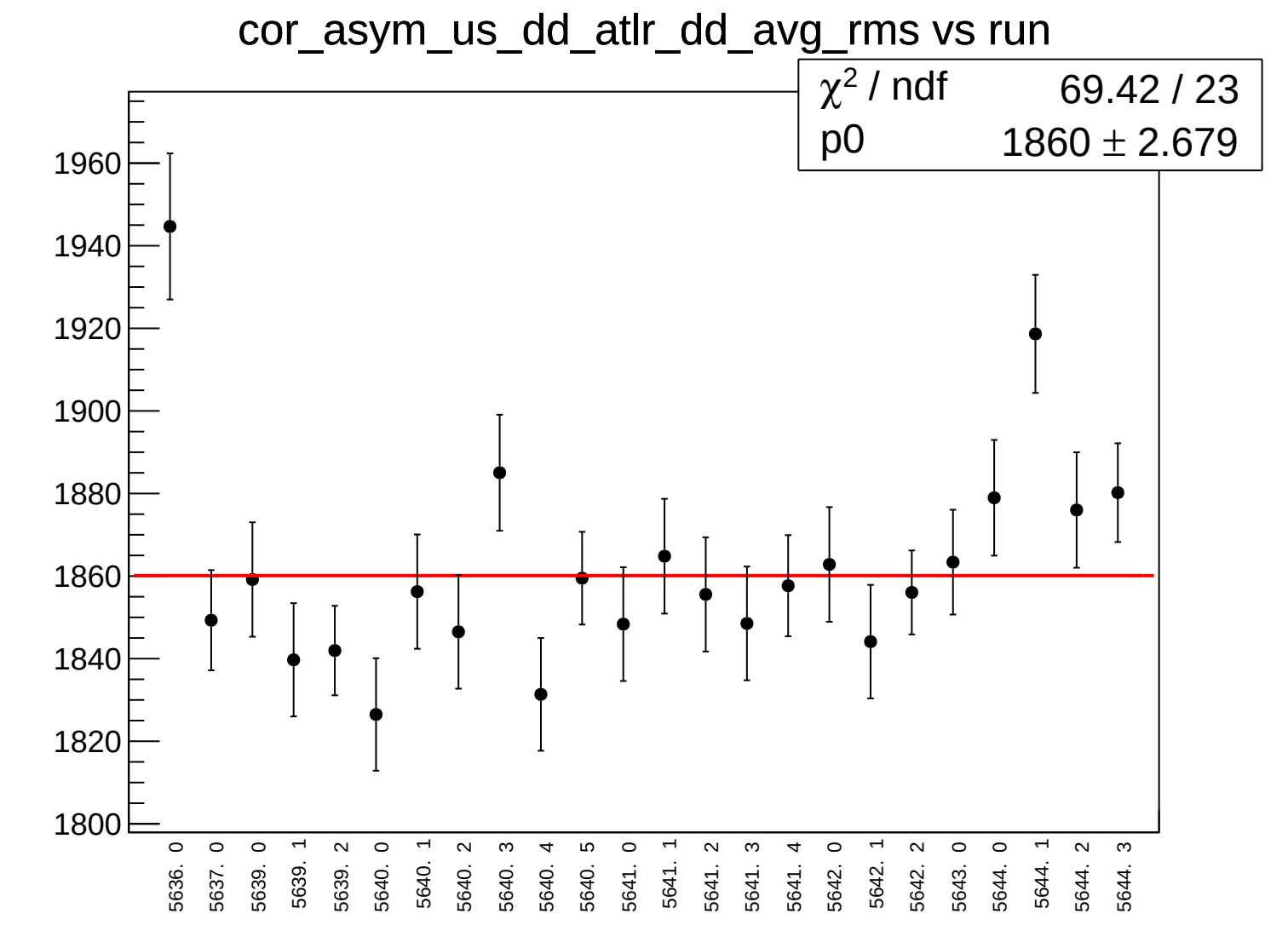

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 12.91 / 23
p0 −6405 ± 7095
80
60
40
20
0
−20
−40
−60
−80
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −557.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

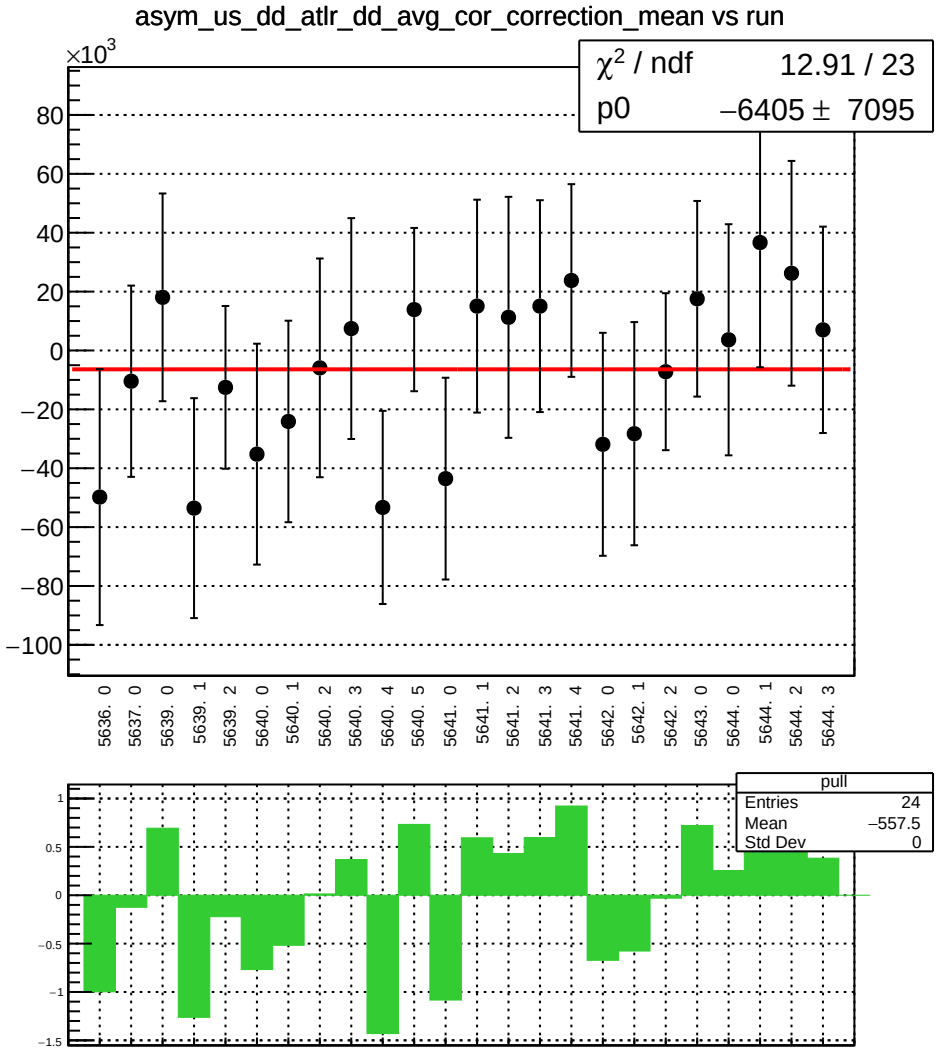

pull1D
Entries 24
Mean −0.004241
Std Dev 0.7333
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

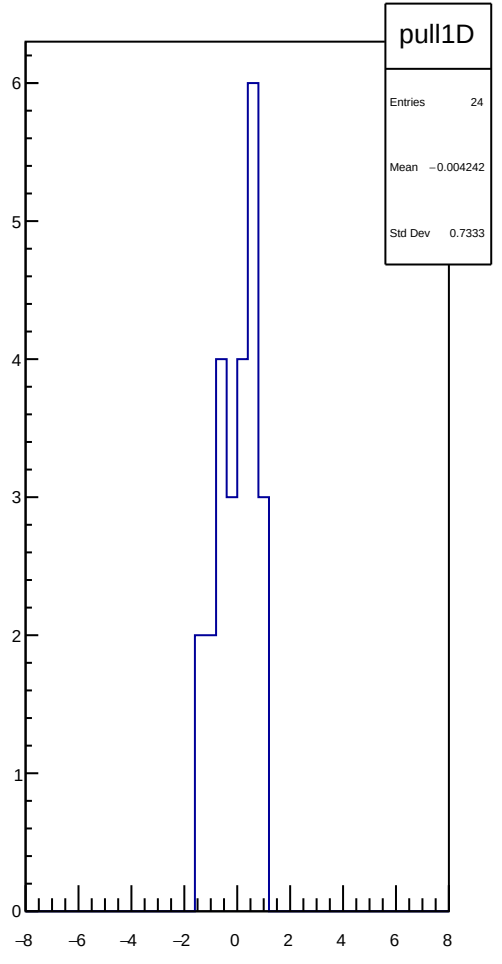

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 1665 / 23
p0 3478 ± 5.017
4000
3800
3600
3400
3200
3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

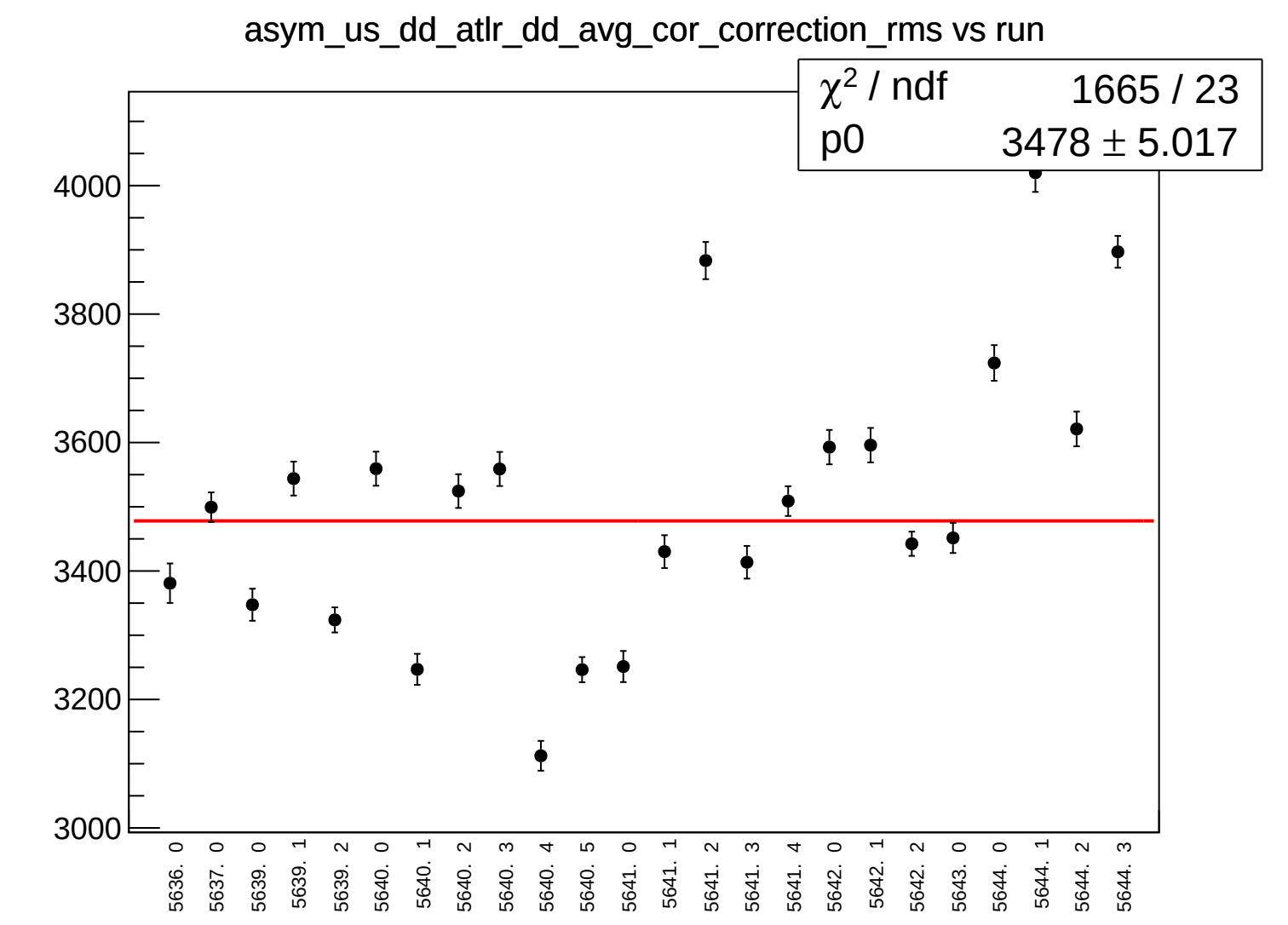

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 17.61 / 23
p0 −3464 ± 3788
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −112.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

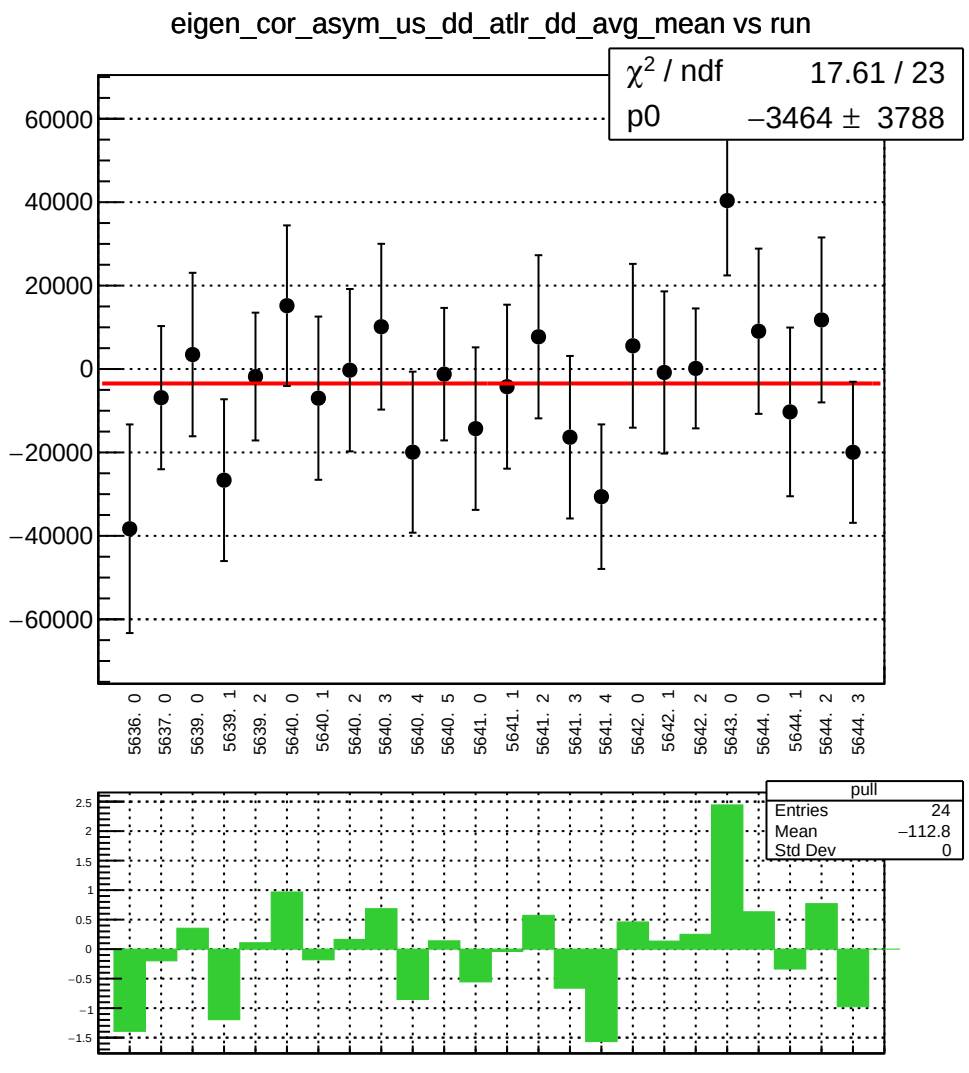

pull1D
Entries 24
Mean −0.01115
Std Dev 0.8566
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

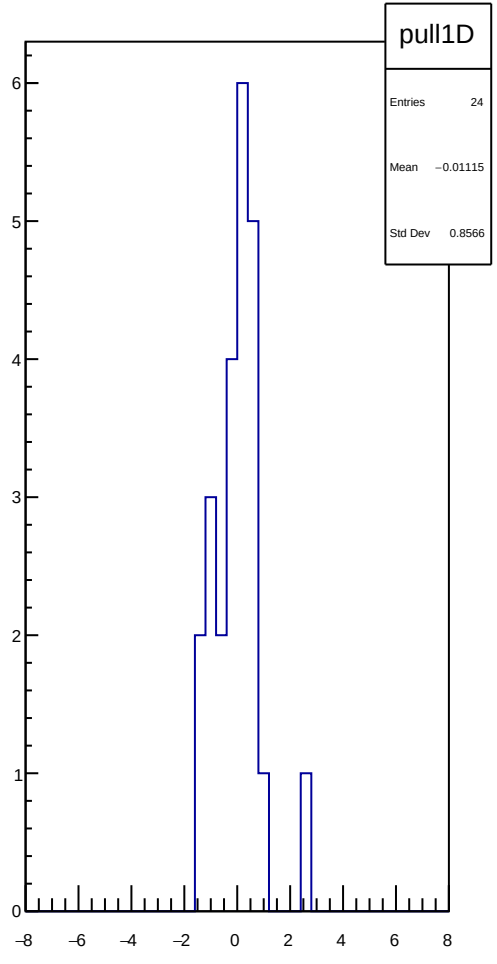

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 69.42 / 23
p0 1860 ± 2.679
1960
1940
1920
1900
1880
1860
1840
1820
1800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

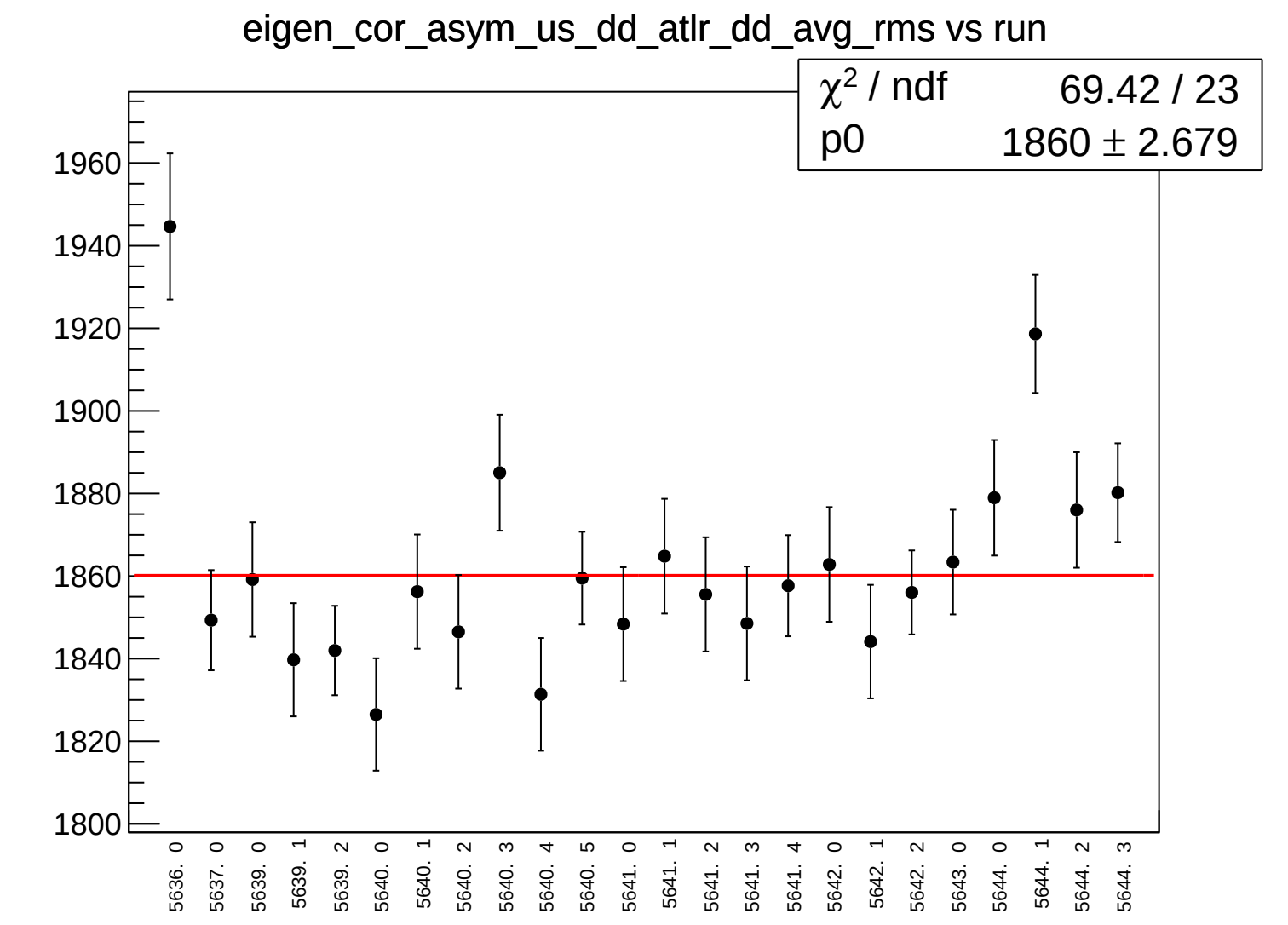

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 12.91 / 23
p0 −6405 ± 7095
80
60
40
20
0
−20
−40
−60
−80
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −557.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean −0.004242
Std Dev 0.7333
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 1665 / 23
p0 3478 ± 5.017
4000
3800
3600
3400
3200
3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 17.61 / 23
p0 −3464 ± 3788
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −112.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean −0.01115
Std Dev 0.8566
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 69.42 / 23
p0 1860 ± 2.679
1960
1940
1920
1900
1880
1860
1840
1820
1800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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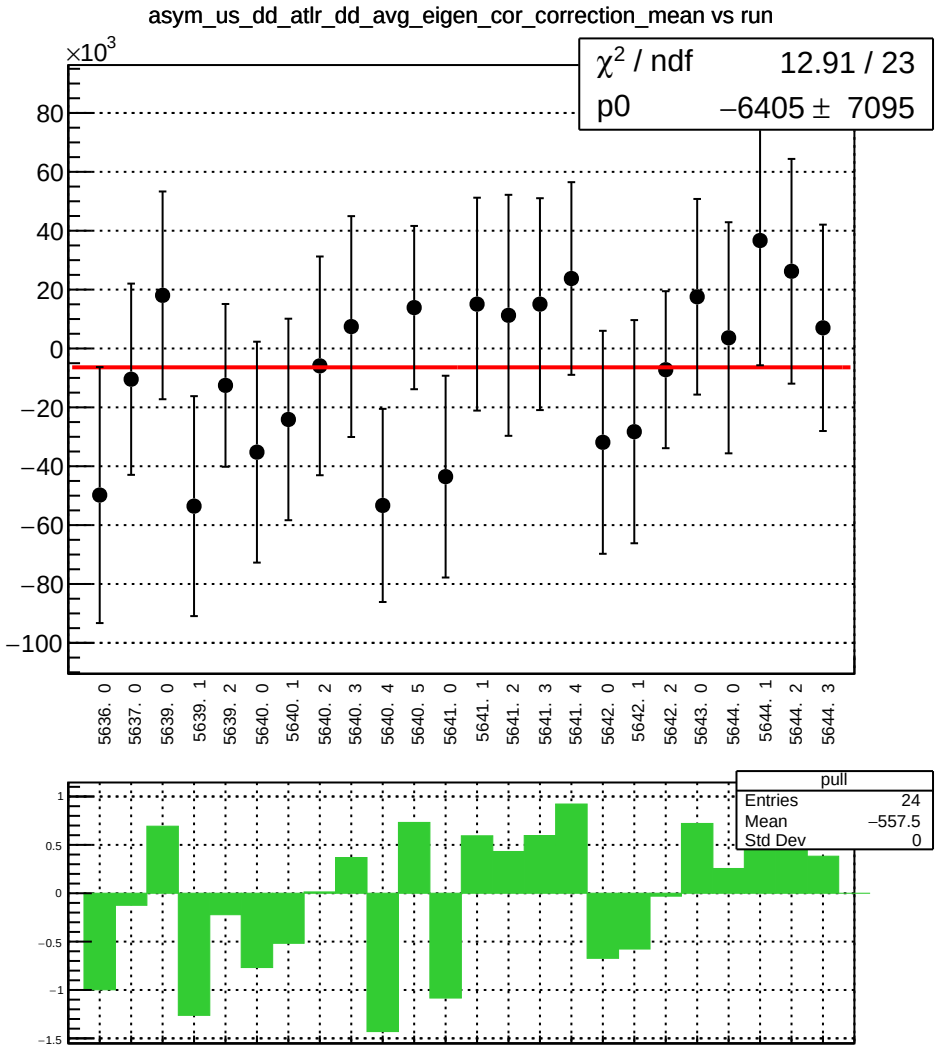
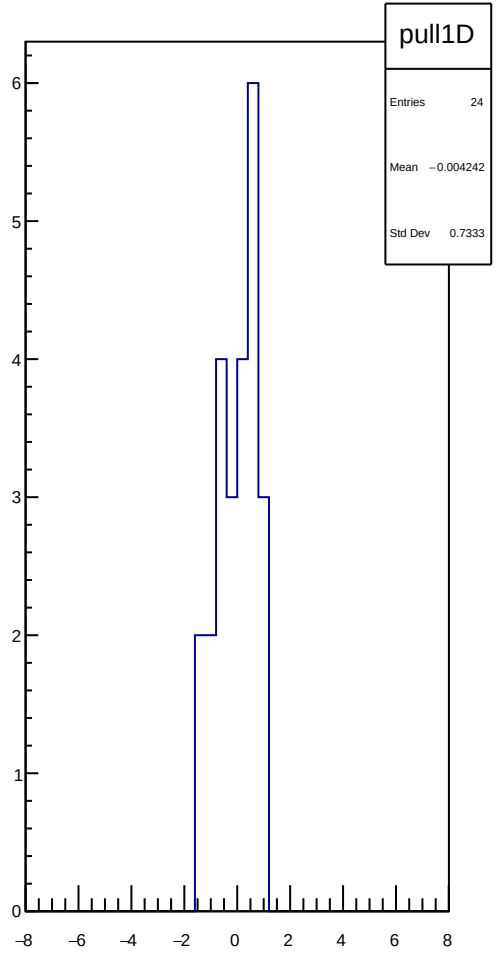
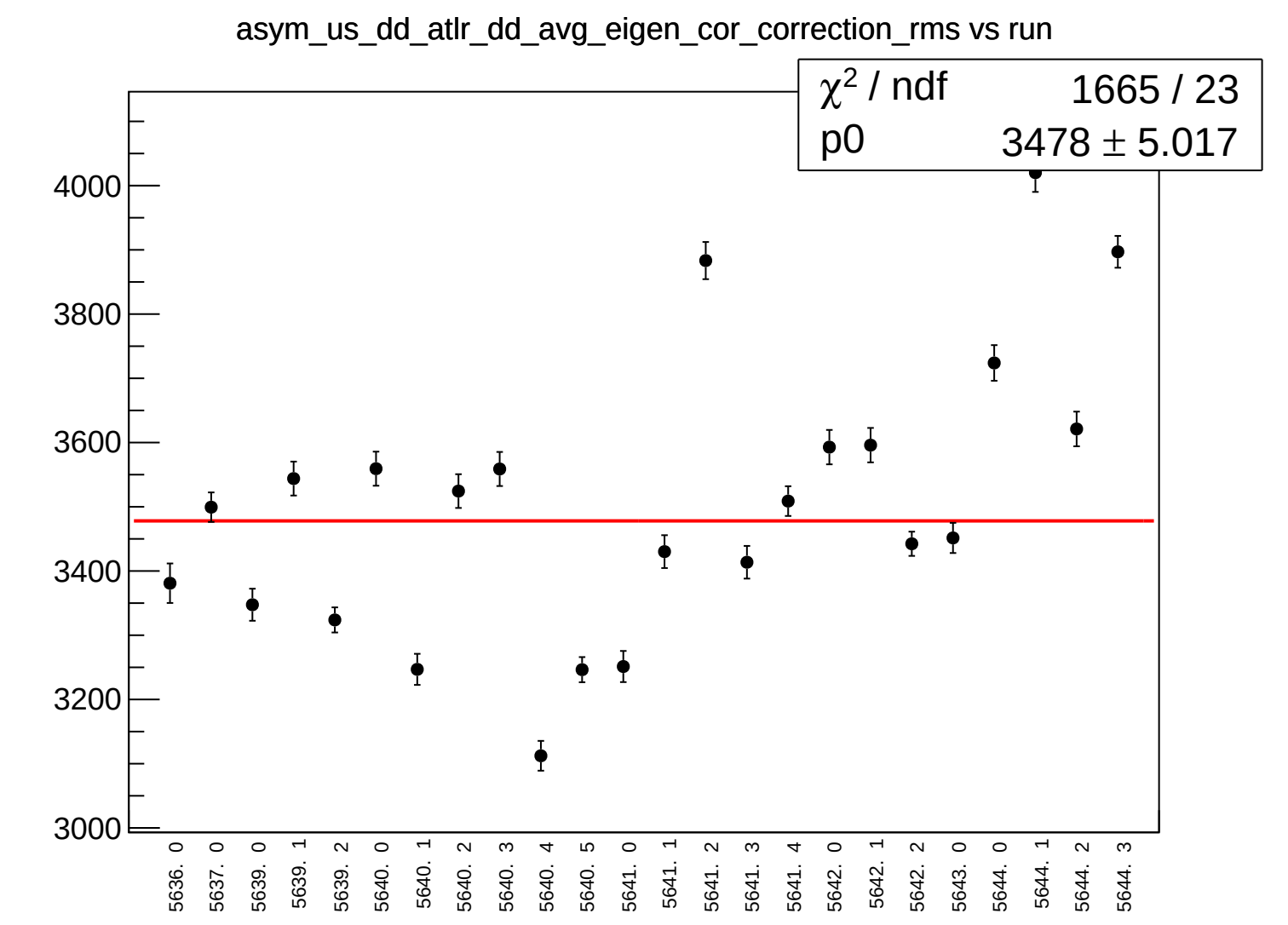
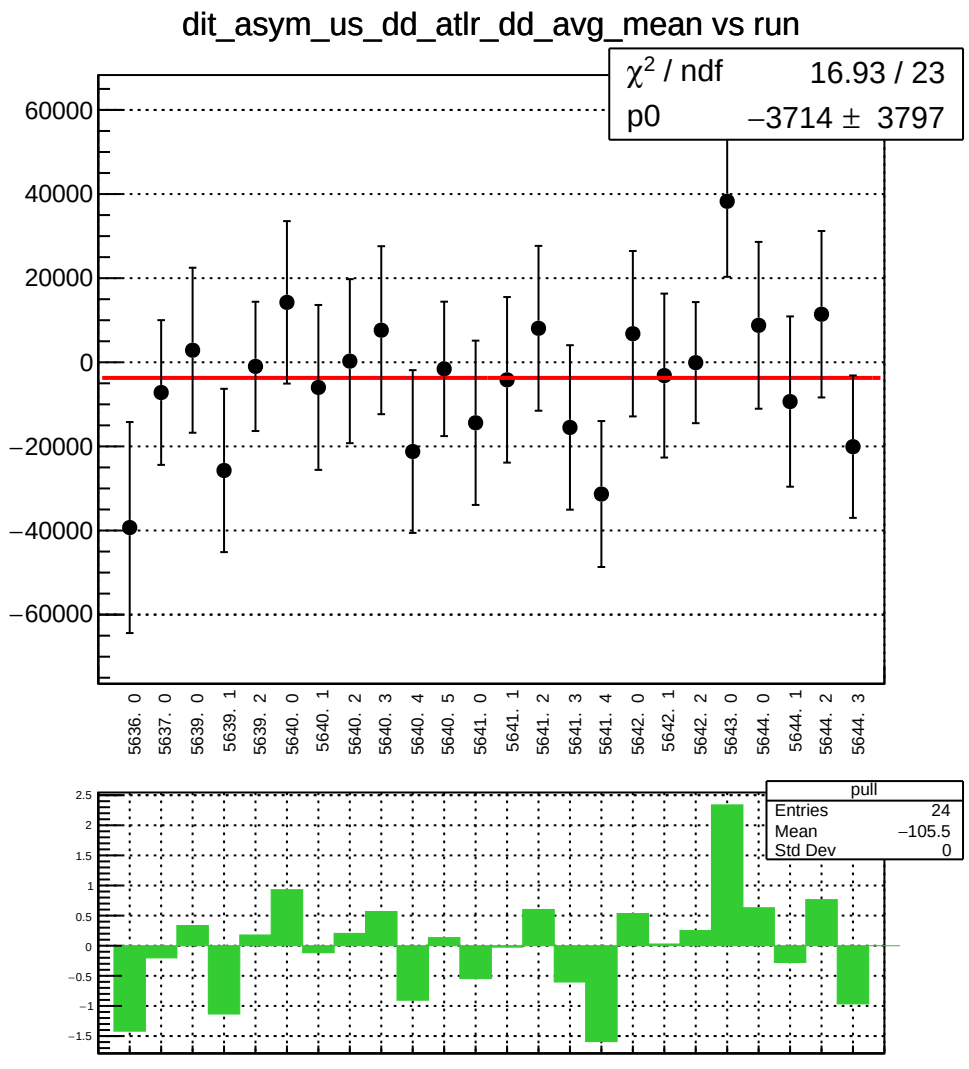
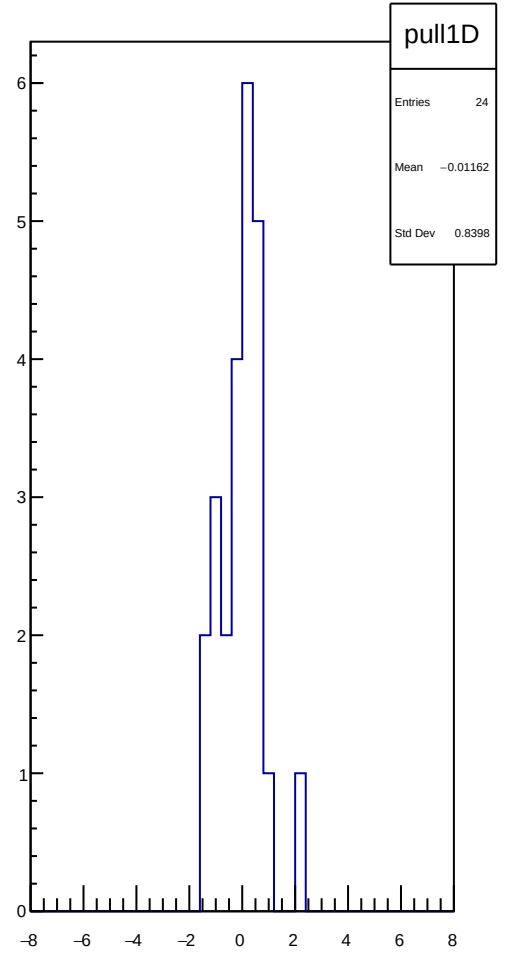
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

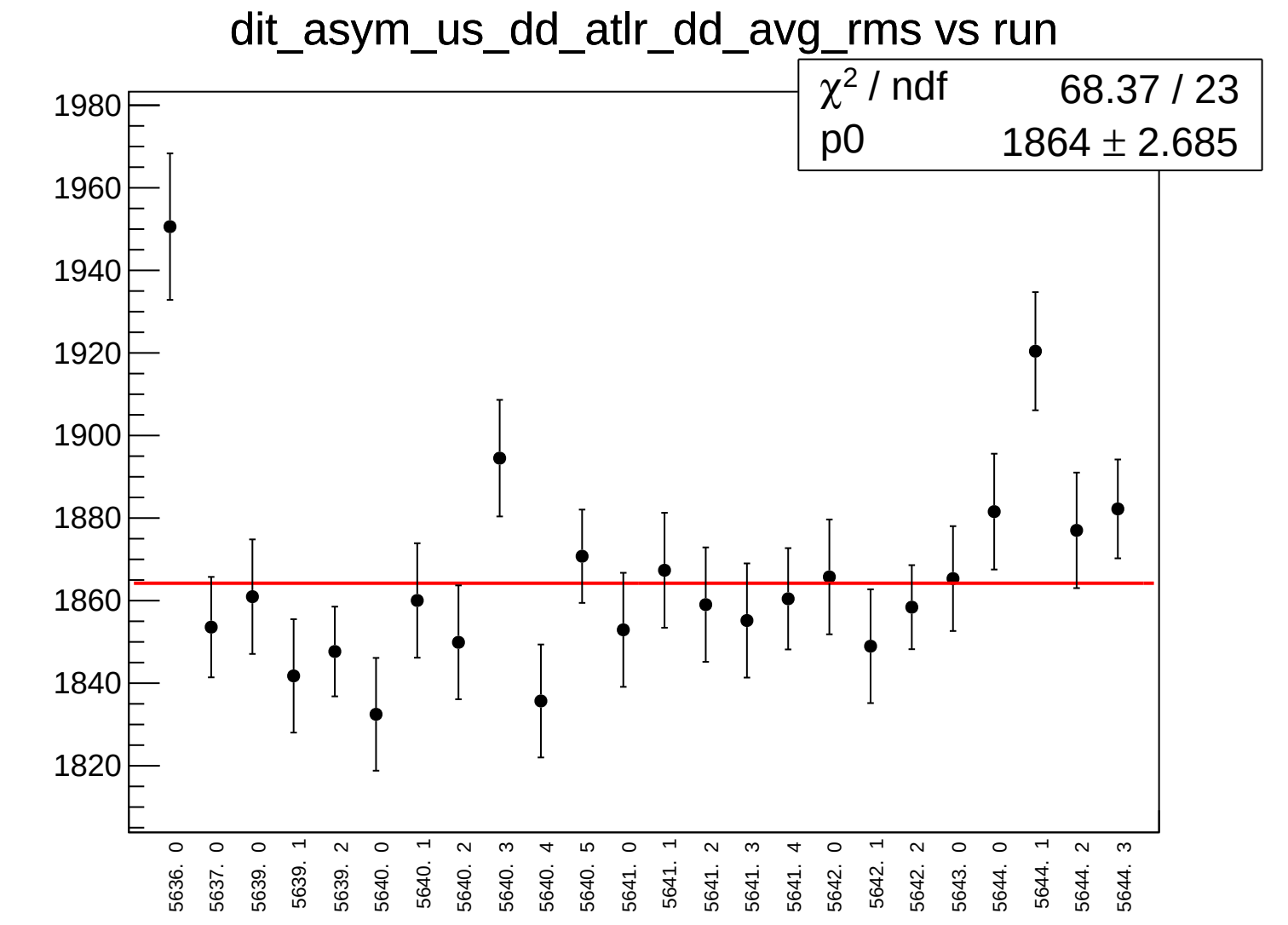

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 12.91 / 23
p0 −6405 ± 7095
80
60
40
20
0
−20
−40
−60
−80
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −557.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

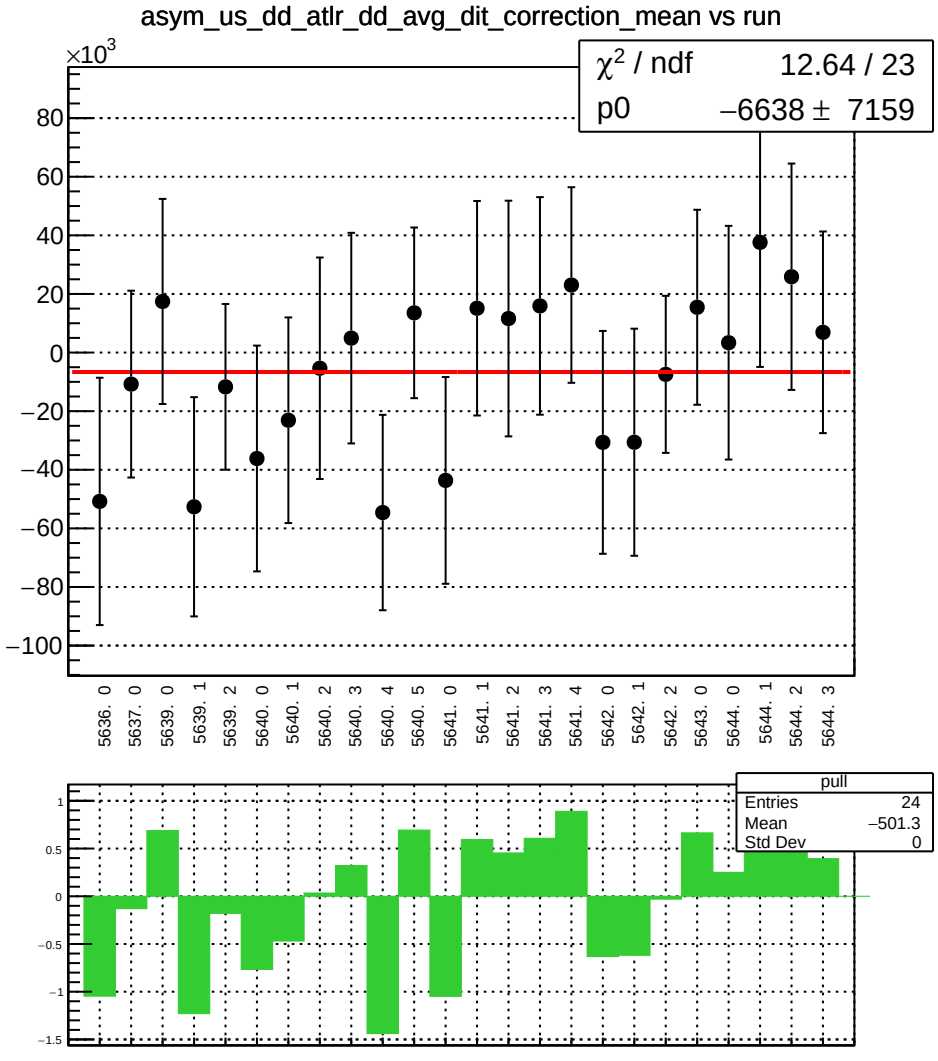

pull1D
Entries 24
Mean −0.004242
Std Dev 0.7333
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

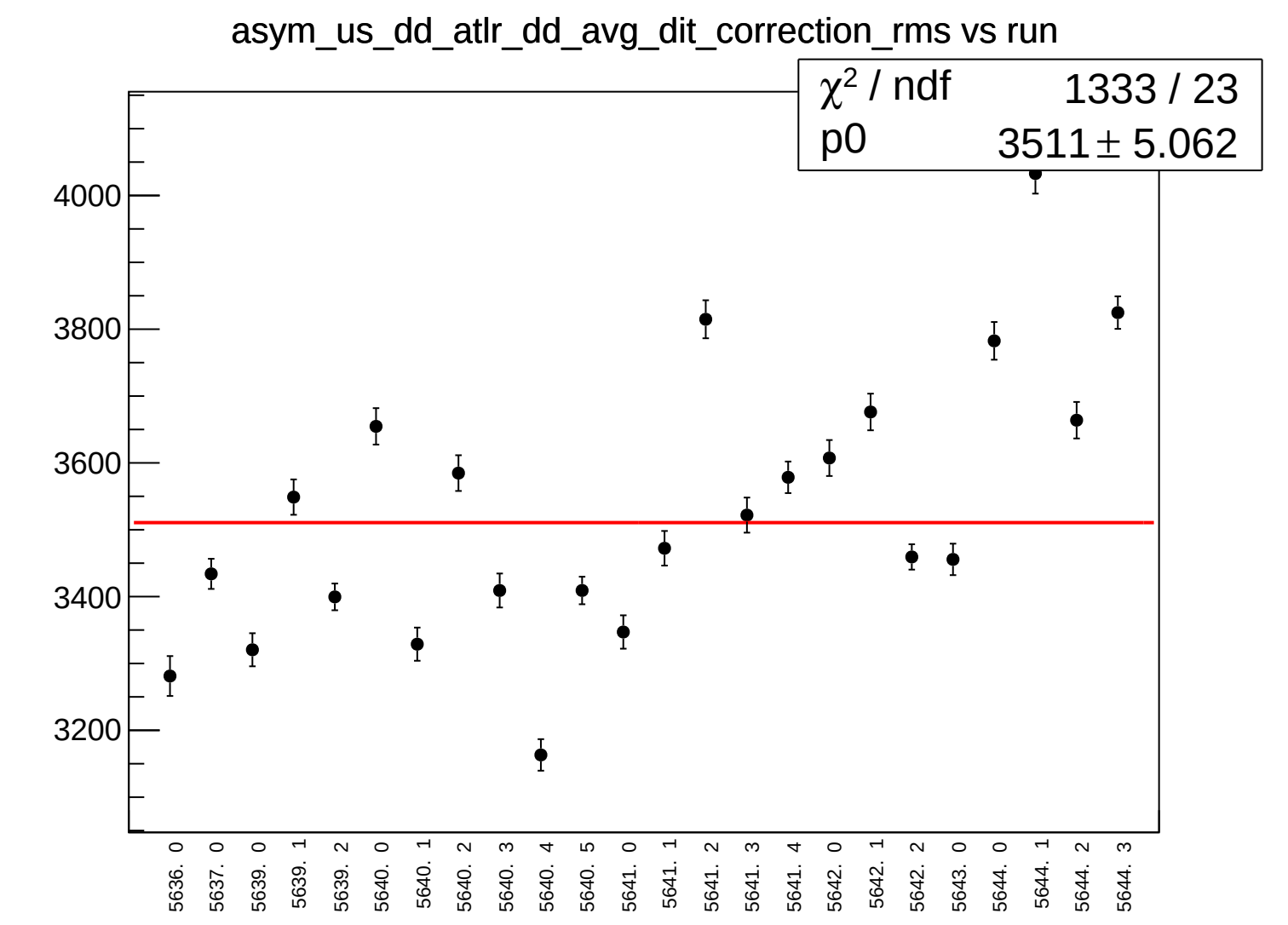

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1665 / 23
p0 3478 ± 5.017
4000
3800
3600
3400
3200
3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

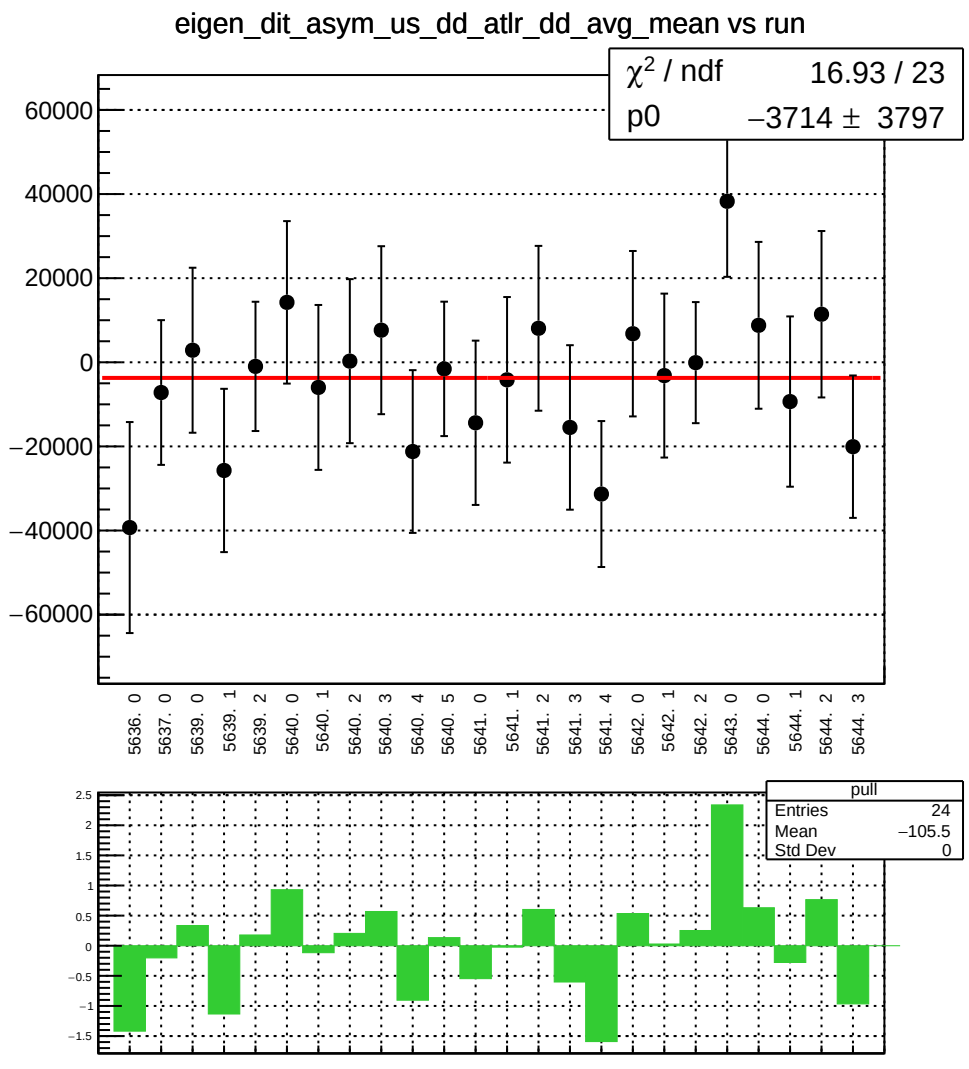

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 16.93 / 23
p0 −3714 ± 3797
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −105.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

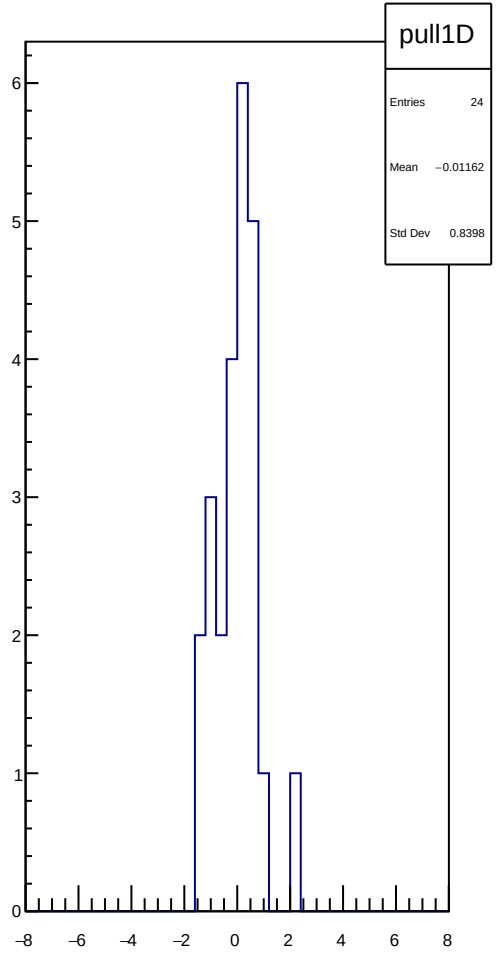

pull1D
Entries 24
Mean −0.01162
Std Dev 0.8398
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

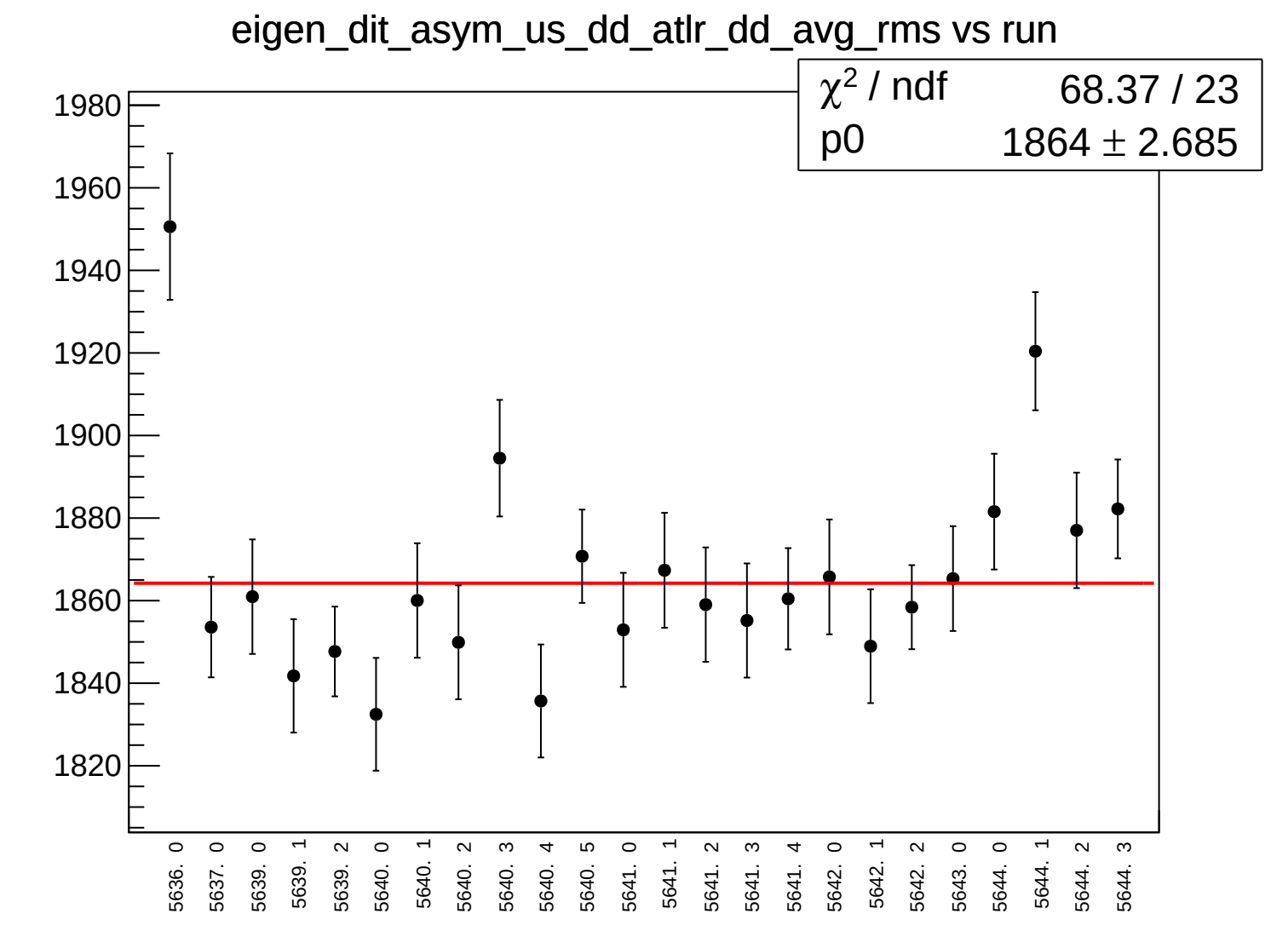

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 68.37 / 23
p0 1864 ± 2.685
1980
1960
1940
1920
1900
1880
1860
1840
1820
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

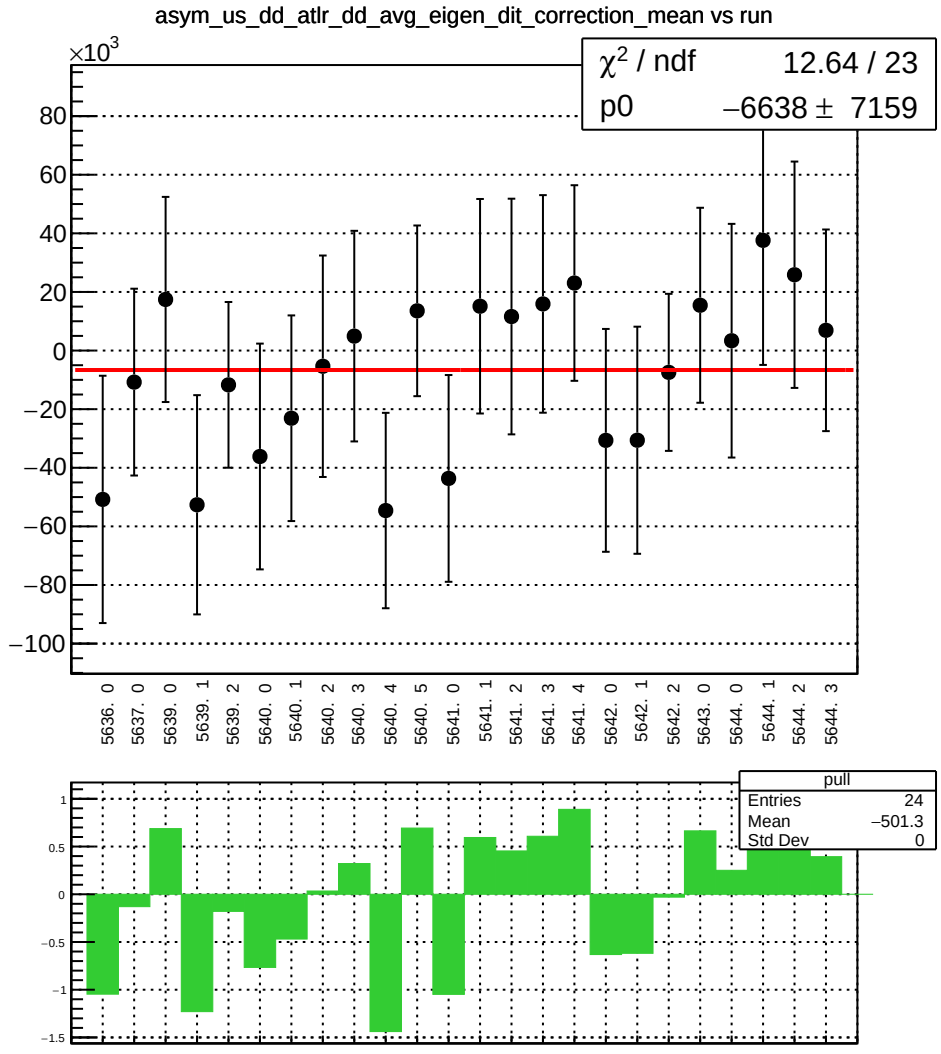

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 12.64 / 23
p0 −6638 ± 7159
80
60
40
20
0
−20
−40
−60
−80
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −501.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.004672
Std Dev 0.7258
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

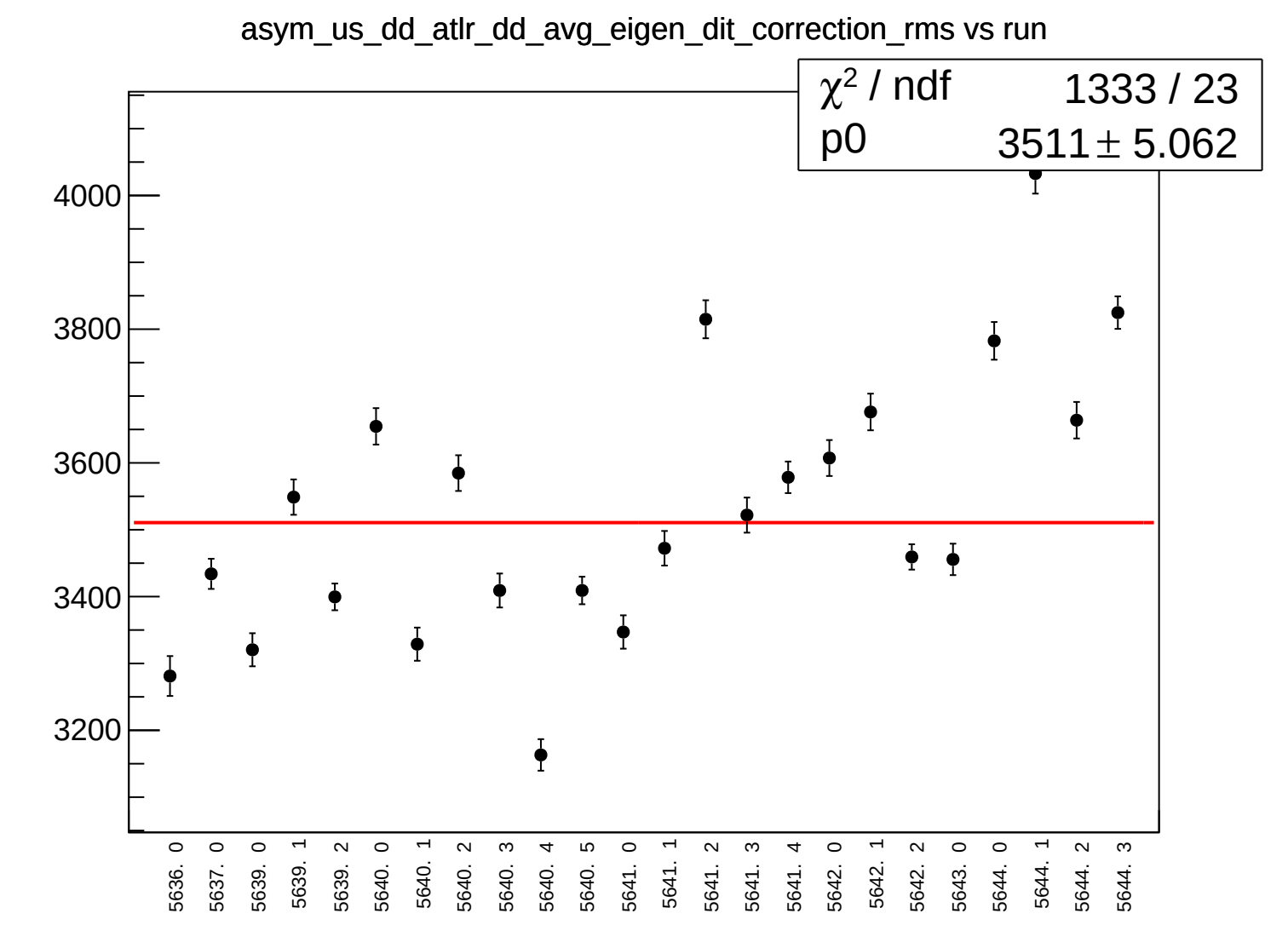

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 1333 / 23
p0 3511 ± 5.062
4000
3800
3600
3400
3200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

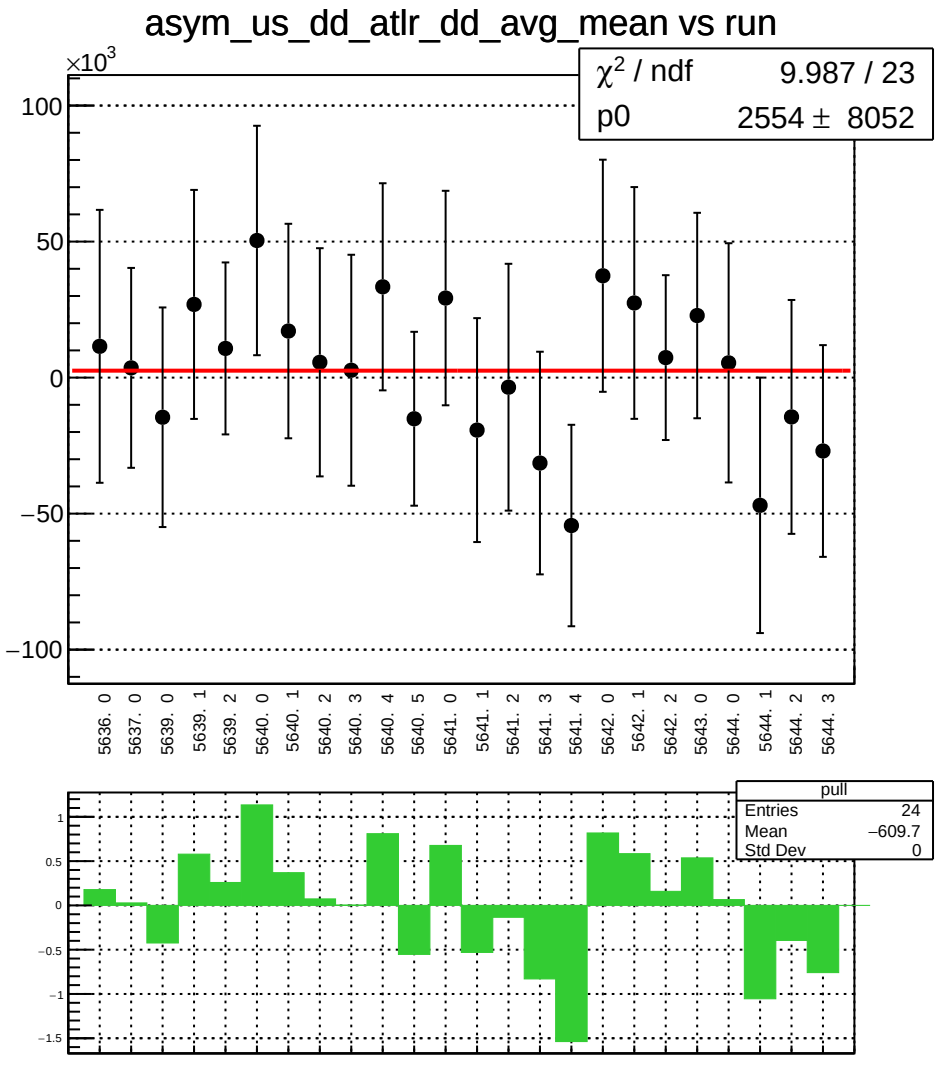

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 16.93 / 23
p0 −3714 ± 3797
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −105.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

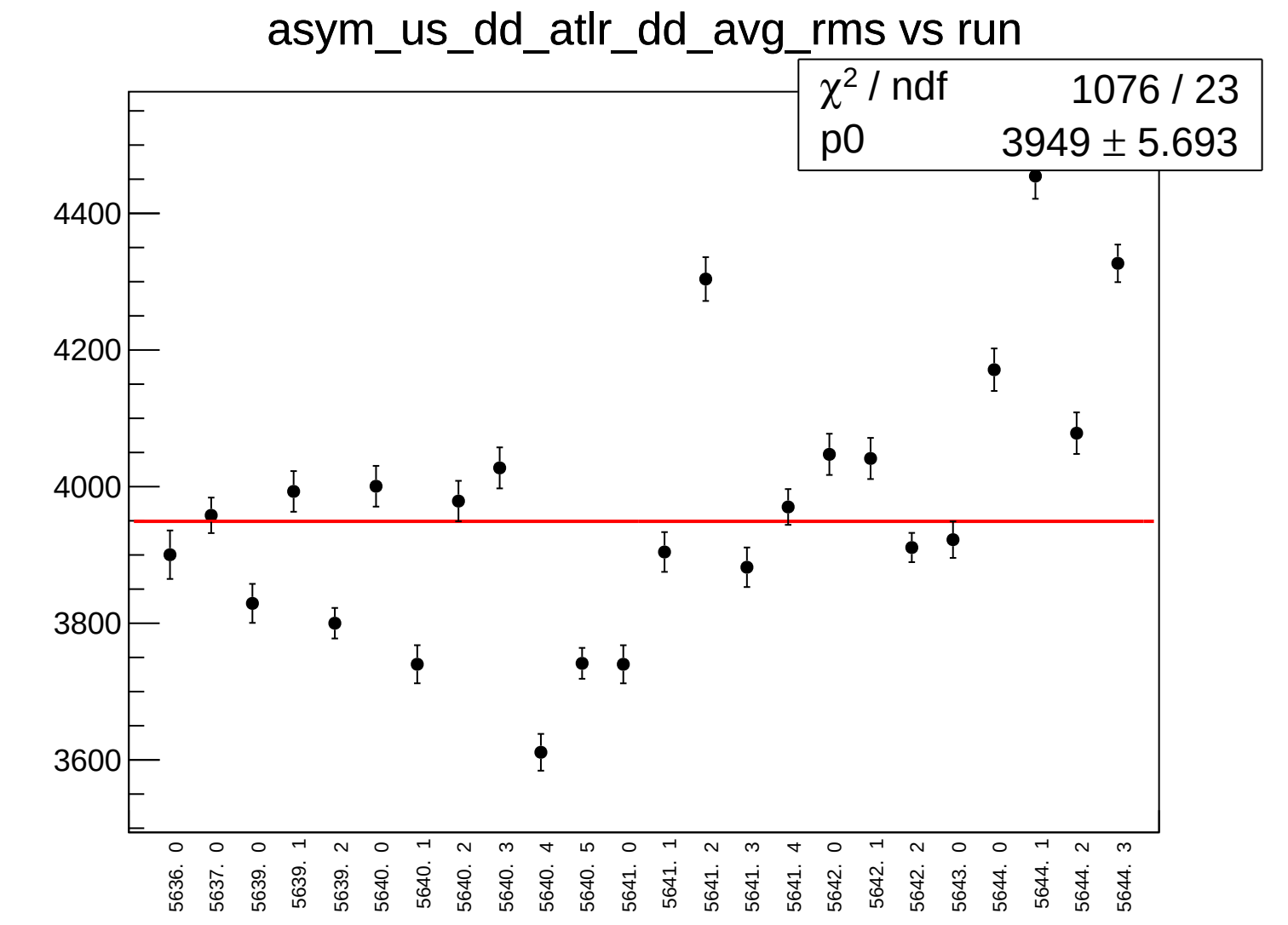

pull1D
Entries 24
Mean −0.01162
Std Dev 0.8398
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

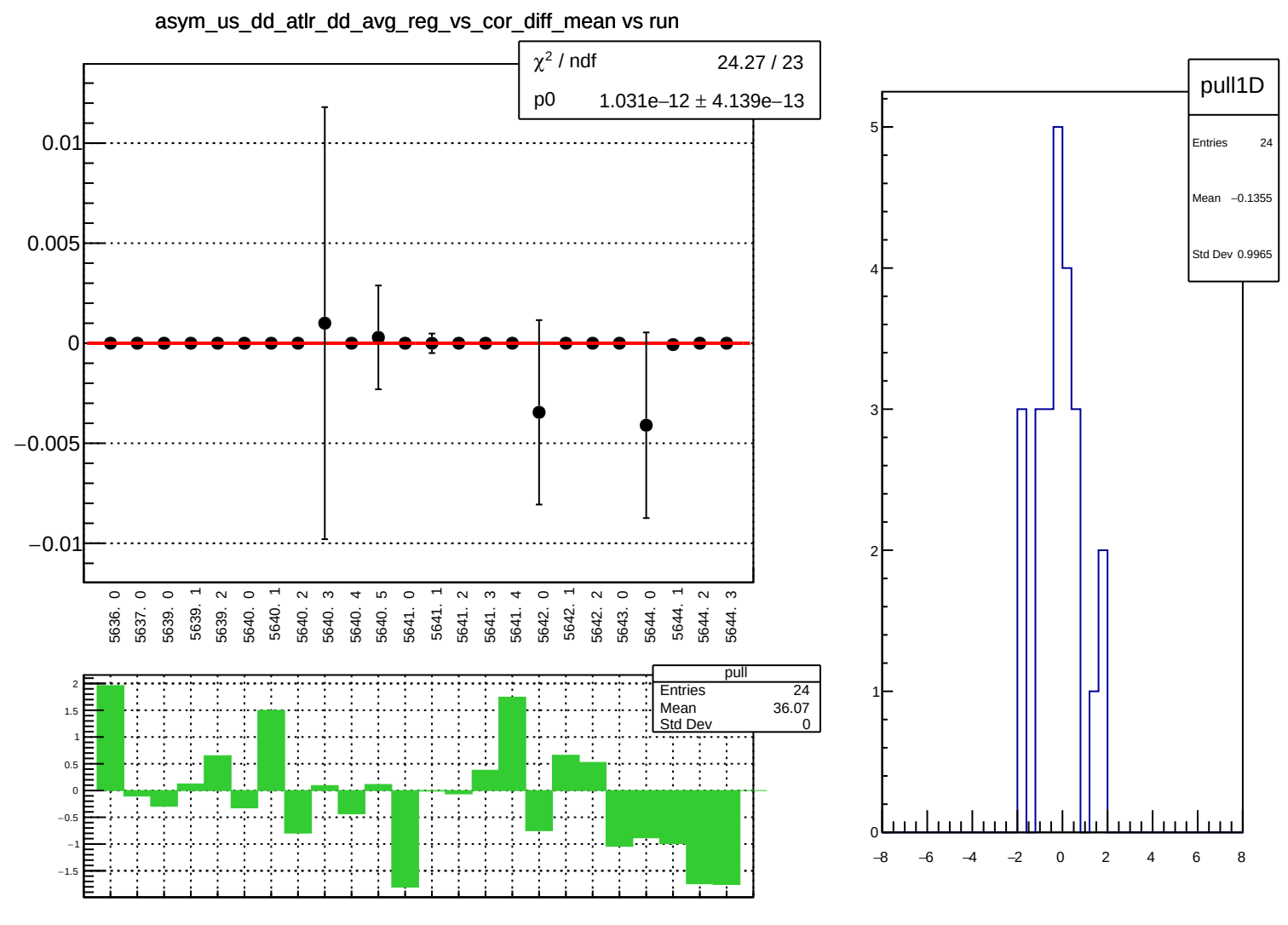

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 68.37 / 23
p0 1864 ± 2.685
1980
1960
1940
1920
1900
1880
1860
1840
1820
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

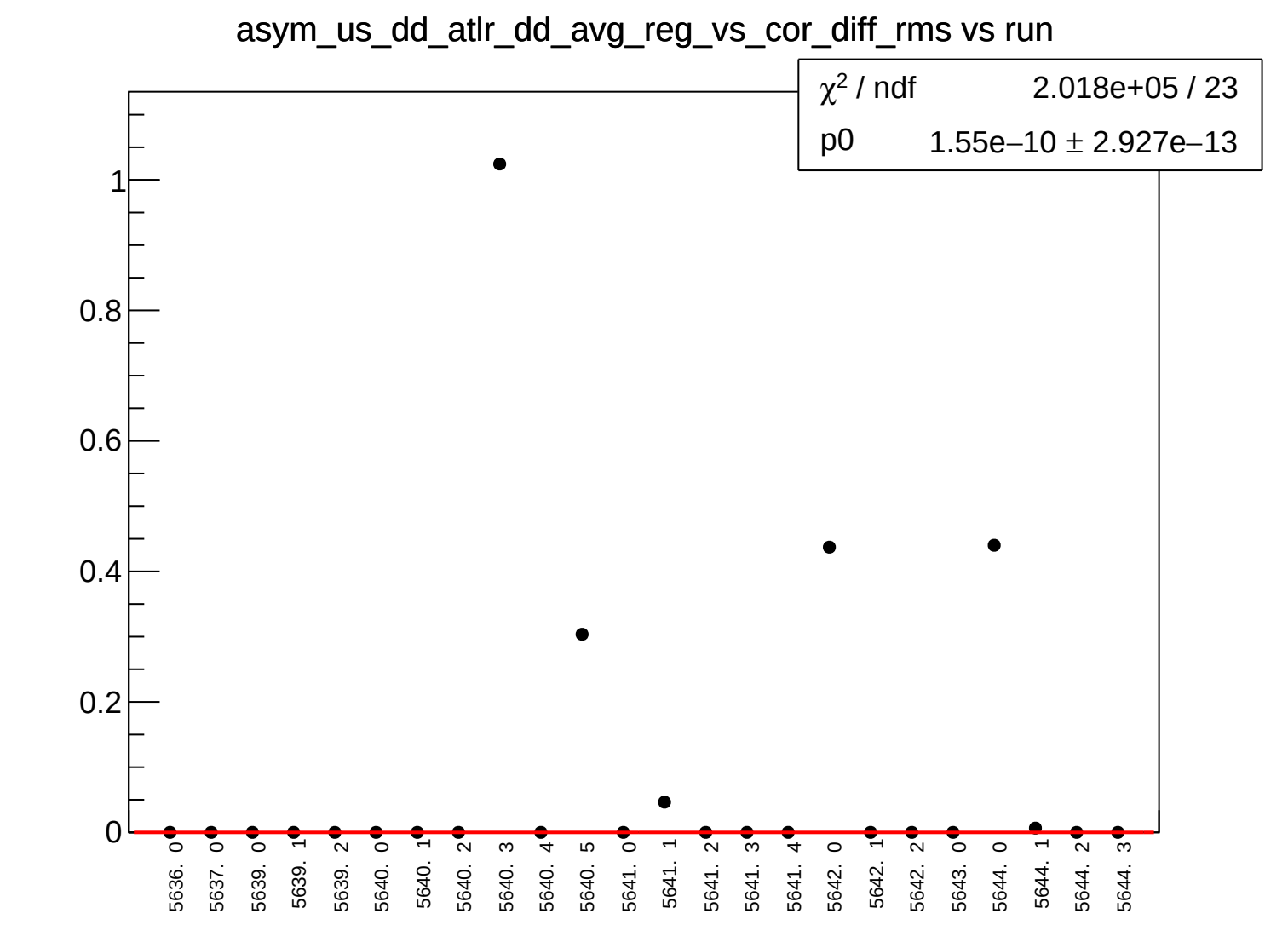

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 12.64 / 23
p0 −6638 ± 7159
80
60
40
20
0
−20
−40
−60
−80
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −501.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.004672
Std Dev 0.7258
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

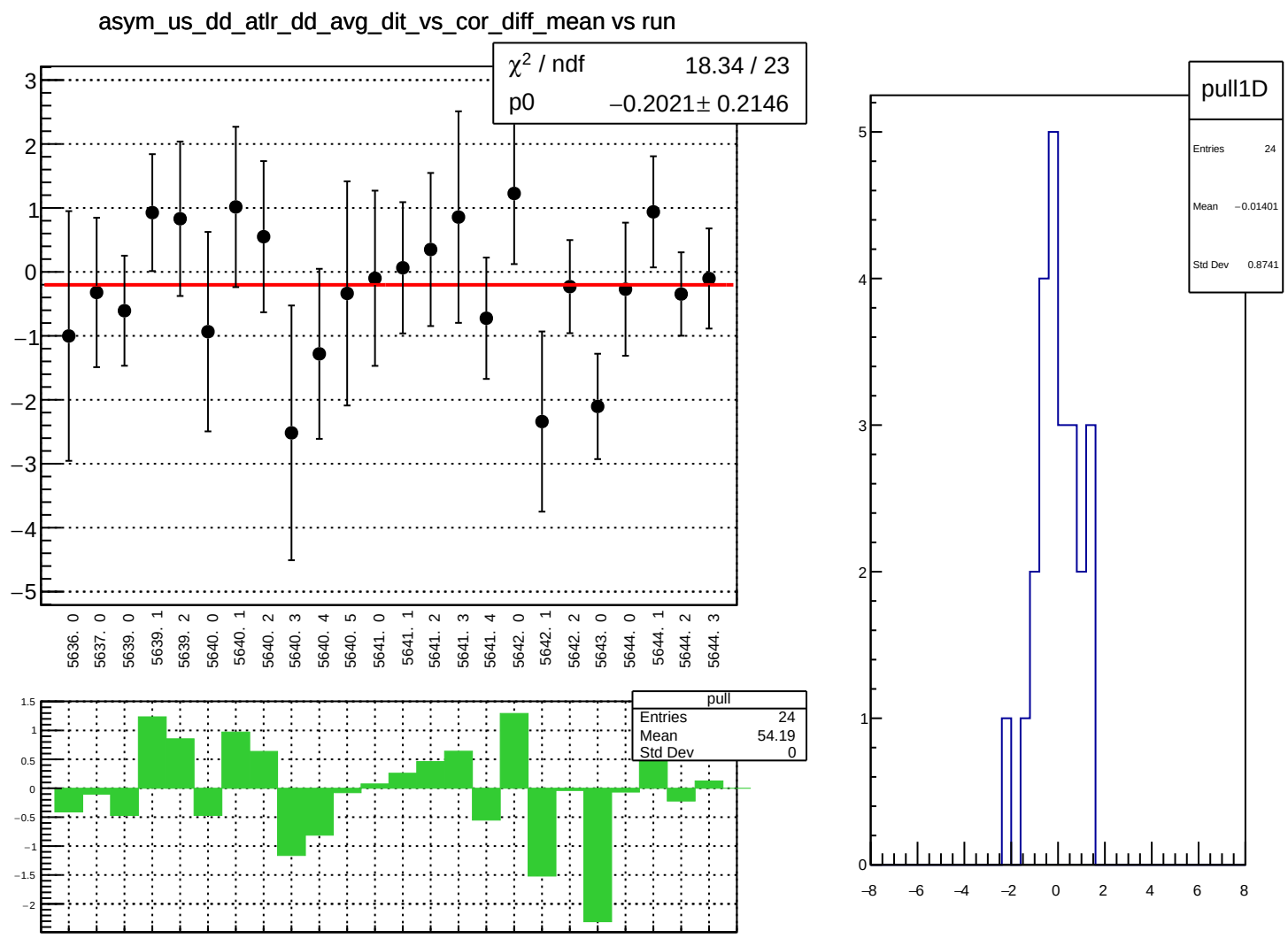

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1333 / 23
p0 3511 ± 5.062
4000
3800
3600
3400
3200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

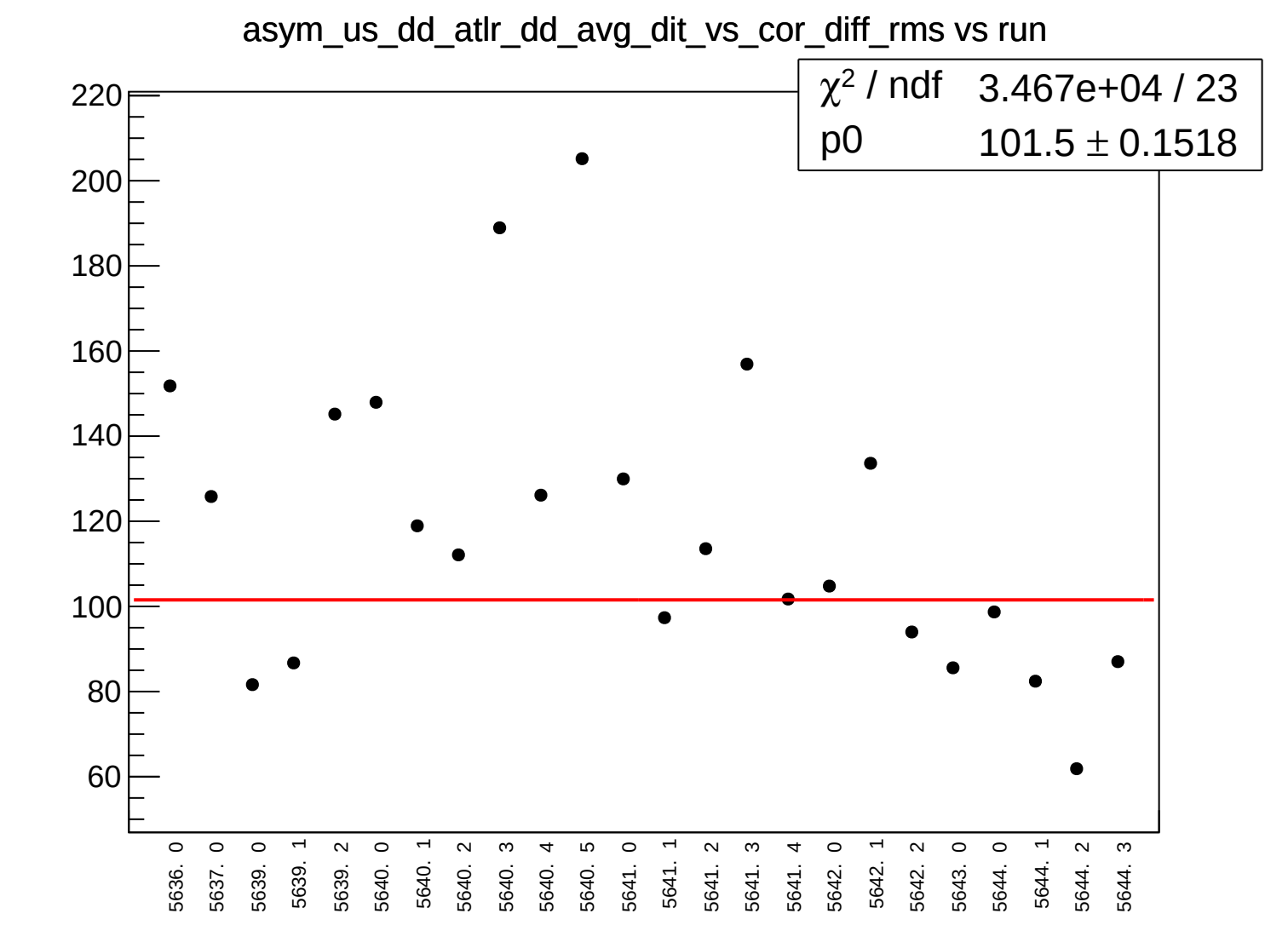

asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ^2 / ndf 9.987 / 23
p0 2554 ± 8052
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −609.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.00233
Std Dev 0.6451
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

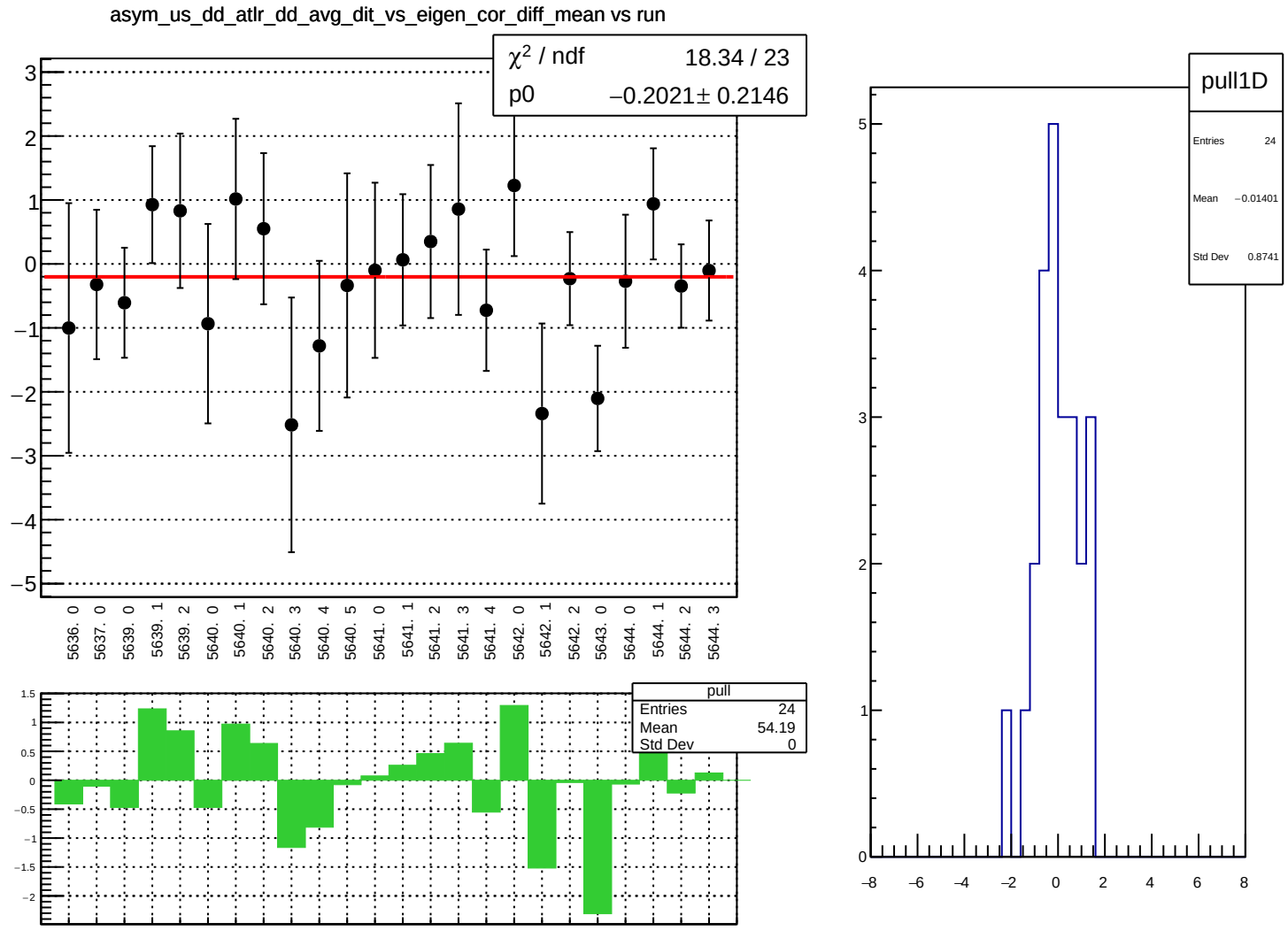

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 1076 / 23
p0 3949 ± 5.693
4400
4200
4000
3800
3600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

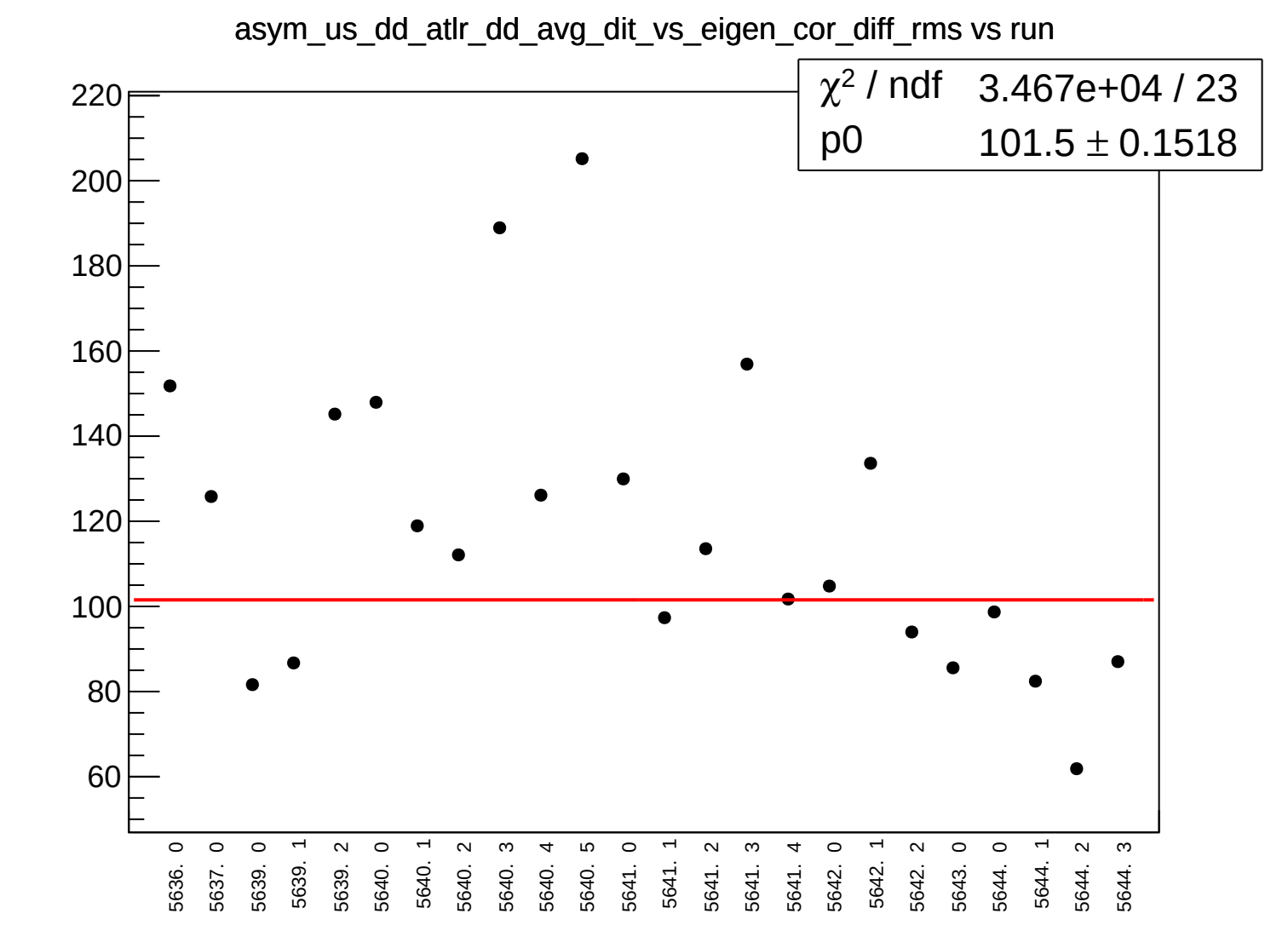

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 24.27 / 23
p0 1.031e−12 ± 4.139e−13
0.01
0.005
0
−0.005
−0.01
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 36.07
Std Dev 0
pull1D
Entries 24
Mean −0.1355
Std Dev 0.9965

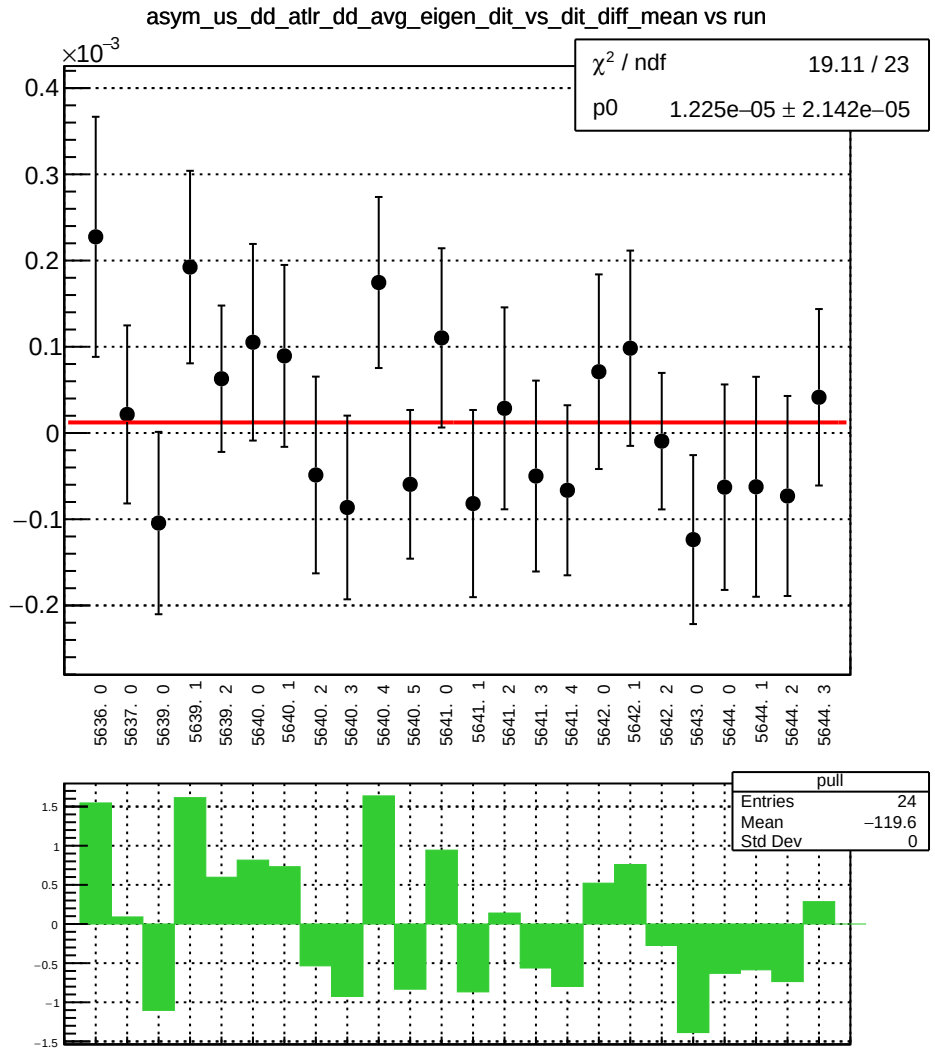

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.018e+05 / 23
p0 1.55e−10 ± 2.927e−13
1
0.8
0.6
0.4
0.2
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

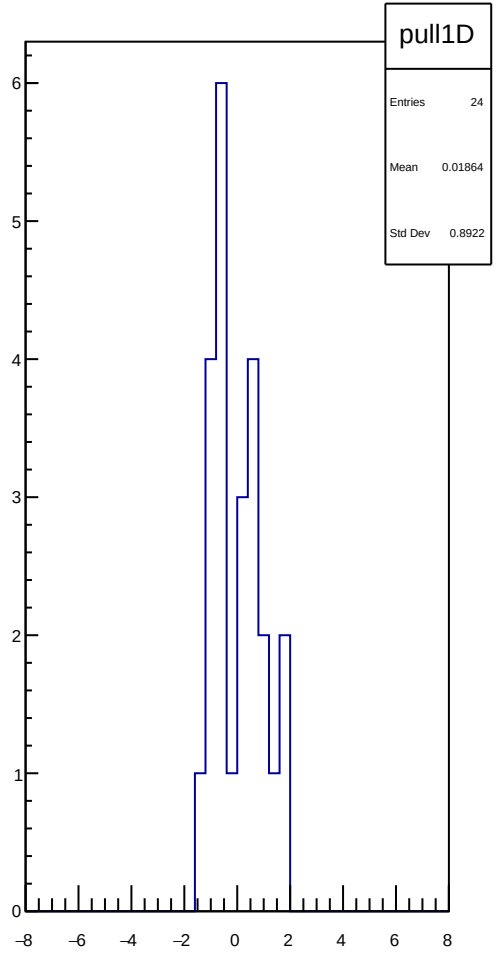

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 18.34 / 23
p0 −0.2021± 0.2146
3
2
1
0
−1
−2
−3
−4
−5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 54.19
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.01401
Std Dev 0.8741
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

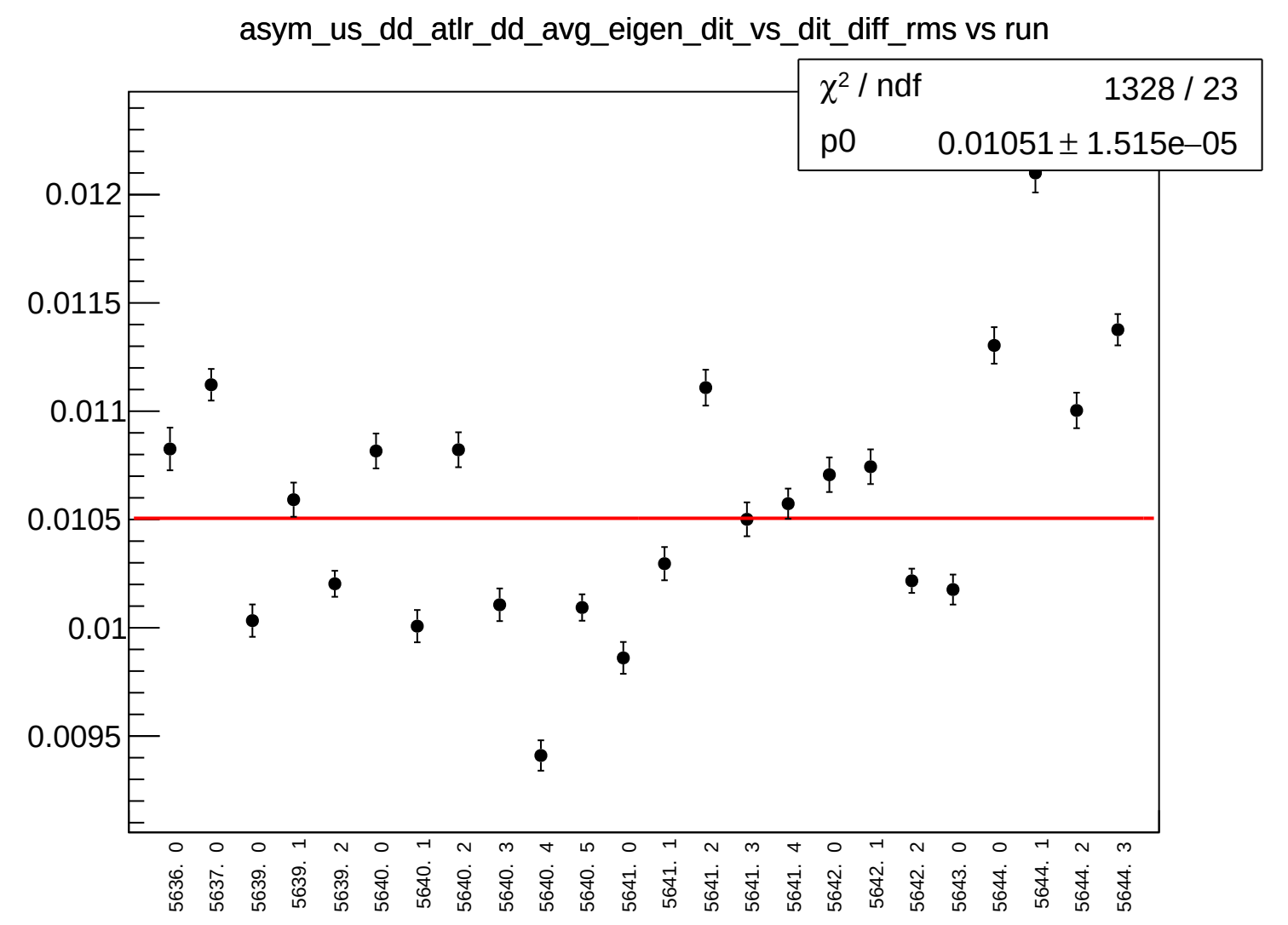

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.467e+04 / 23
p0 101.5 ± 0.1518
220
200
180
160
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

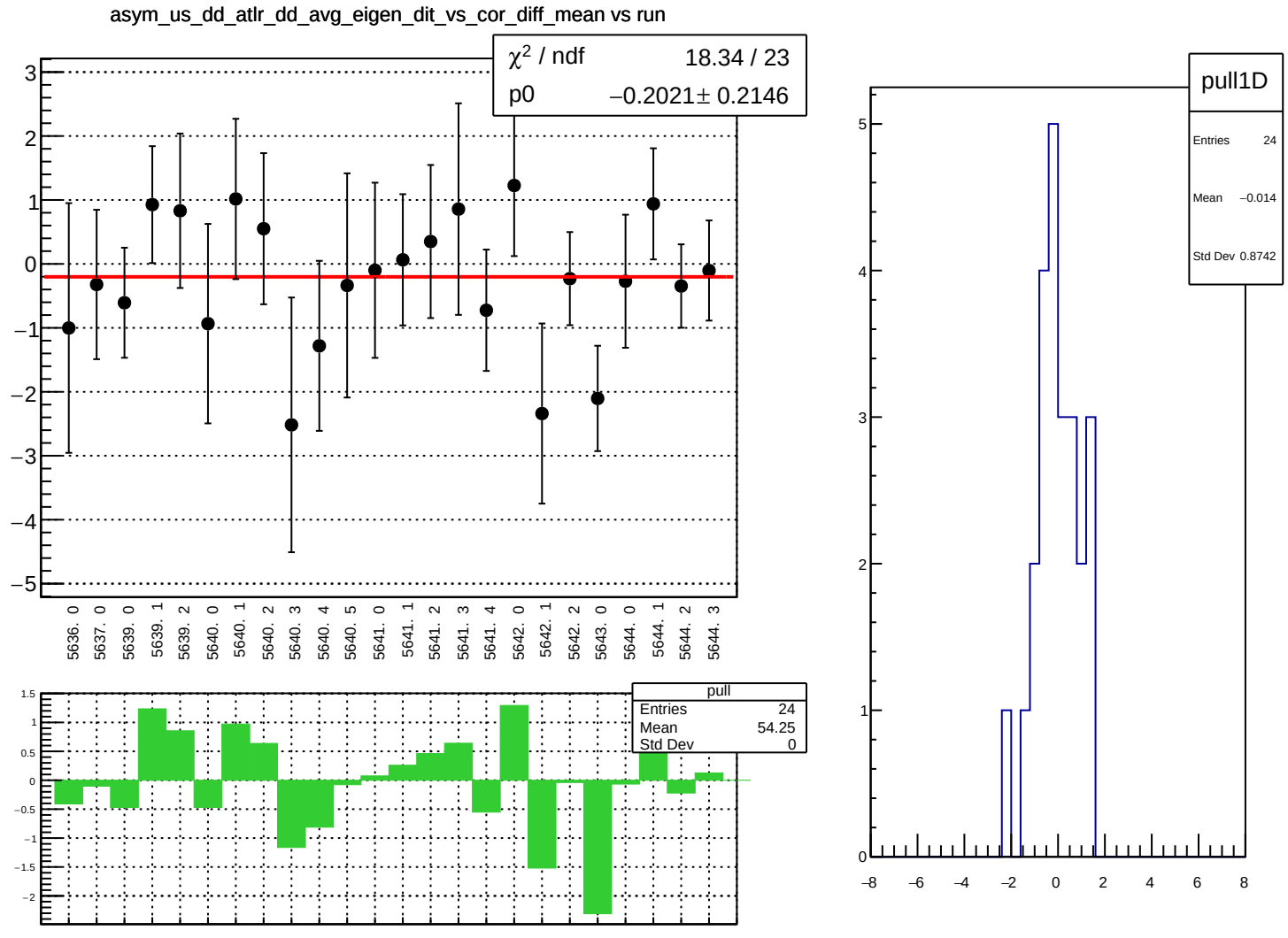

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 18.34 / 23
p0 −0.2021± 0.2146
3
2
1
0
−1
−2
−3
−4
−5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 54.19
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.01401
Std Dev 0.8741
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

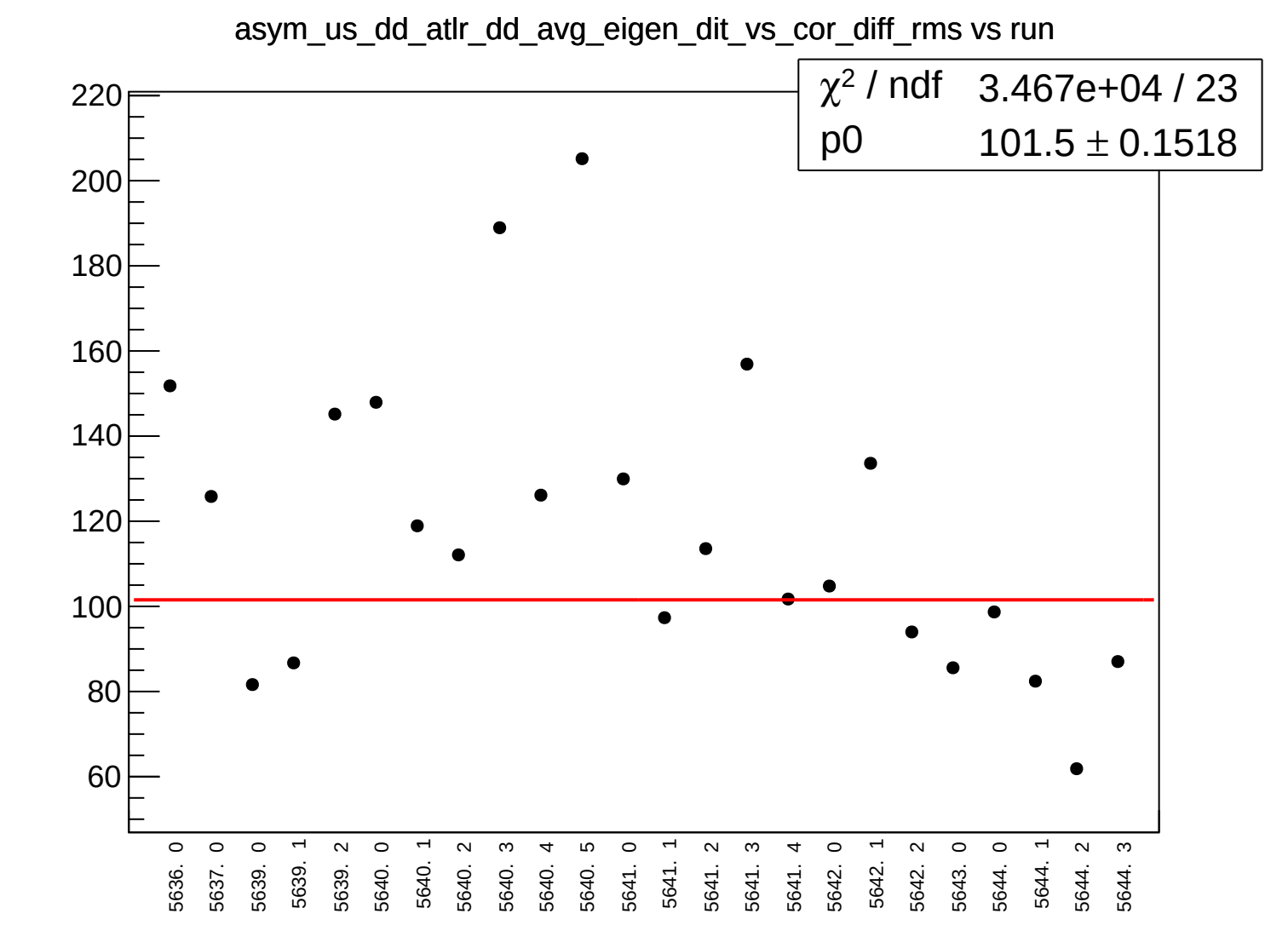

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.467e+04 / 23
p0 101.5 ± 0.1518
220
200
180
160
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

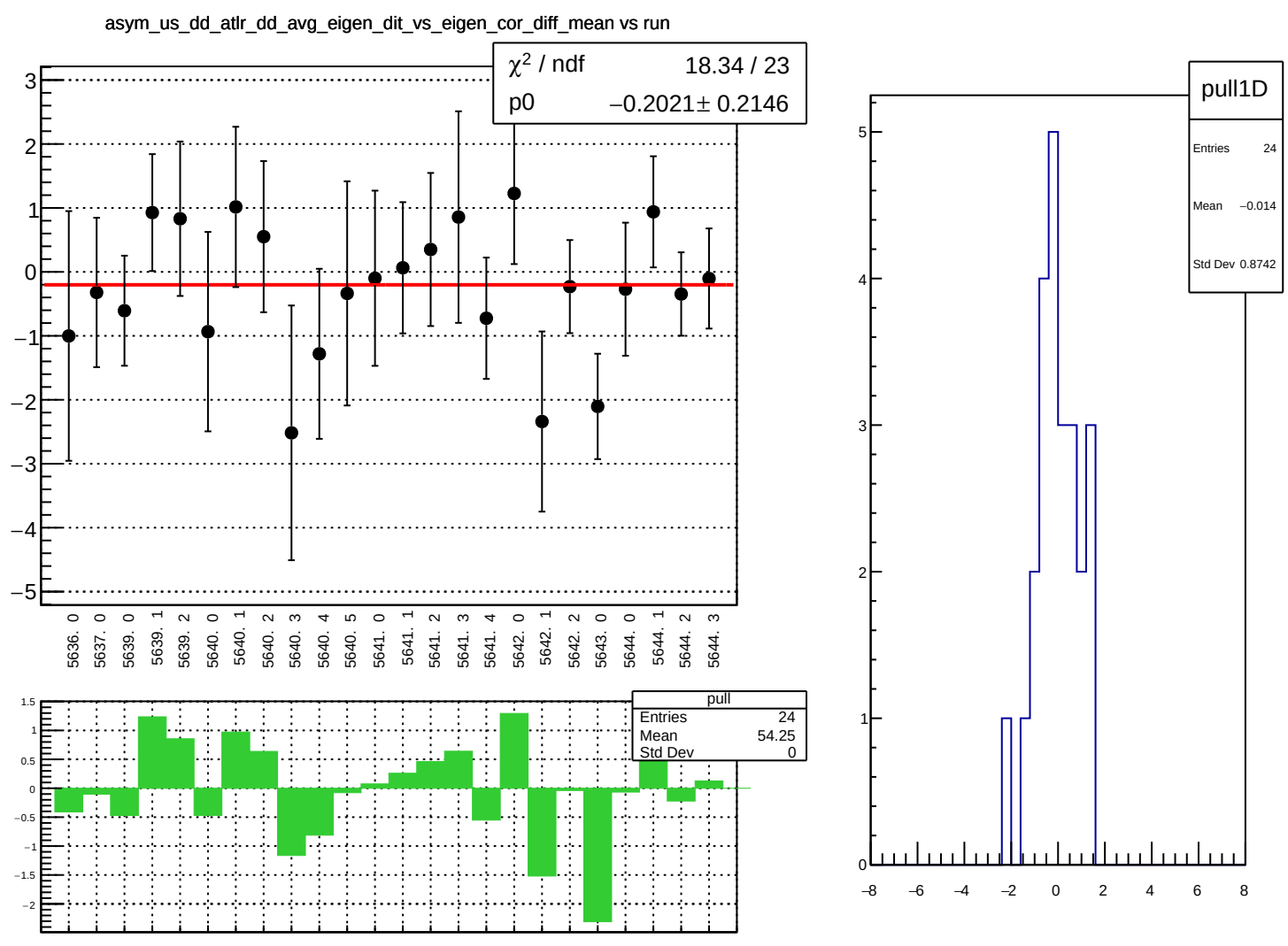

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 19.11 / 23
p0 1.225e−05 ± 2.142e−05
0.4
0.3
0.2
0.1
0
−0.1
−0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −119.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

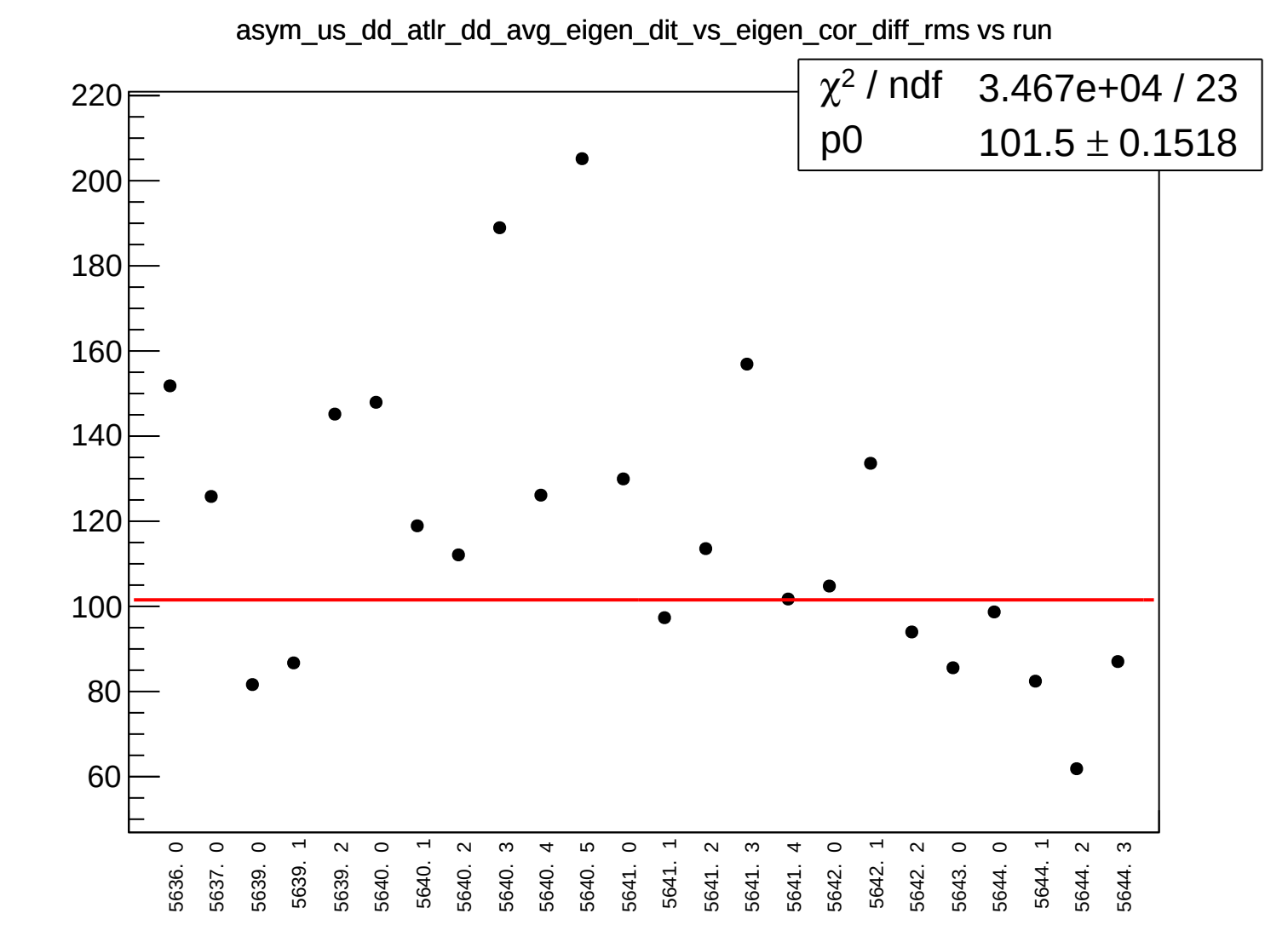

pull1D
Entries 24
Mean 0.01864
Std Dev 0.8922
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

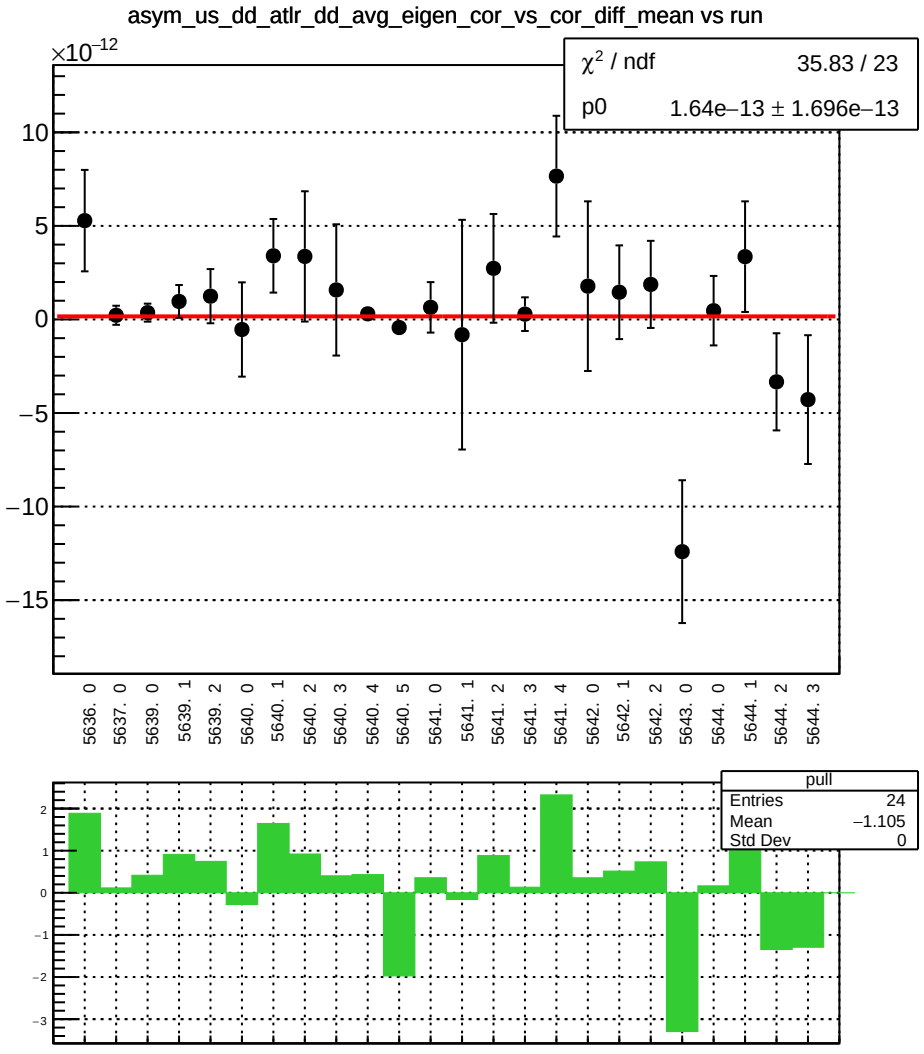

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1328 / 23
p0 0.01051 ± 1.515e−05
0.012
0.0115
0.011
0.0105
0.01
0.0095
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

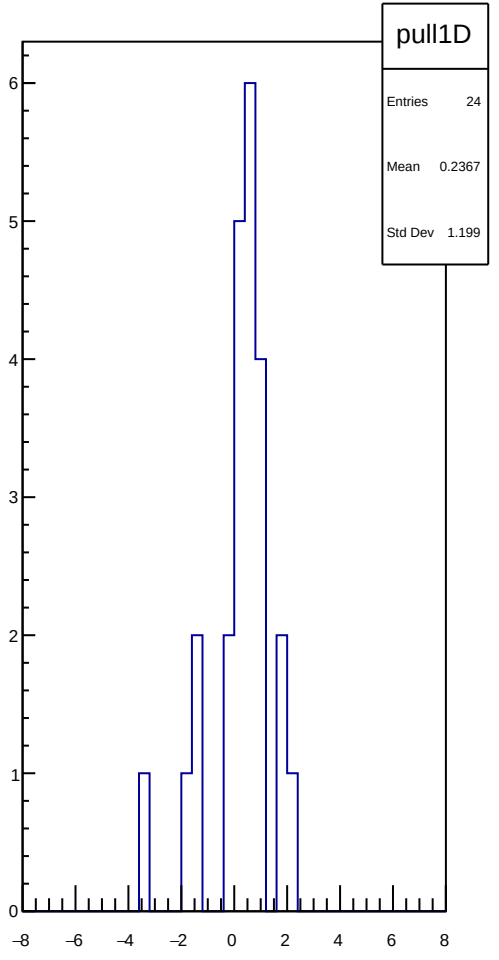

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 18.34 / 23
p0 −0.2021± 0.2146
3
2
1
0
−1
−2
−3
−4
−5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 54.25
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.014
Std Dev 0.8742
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

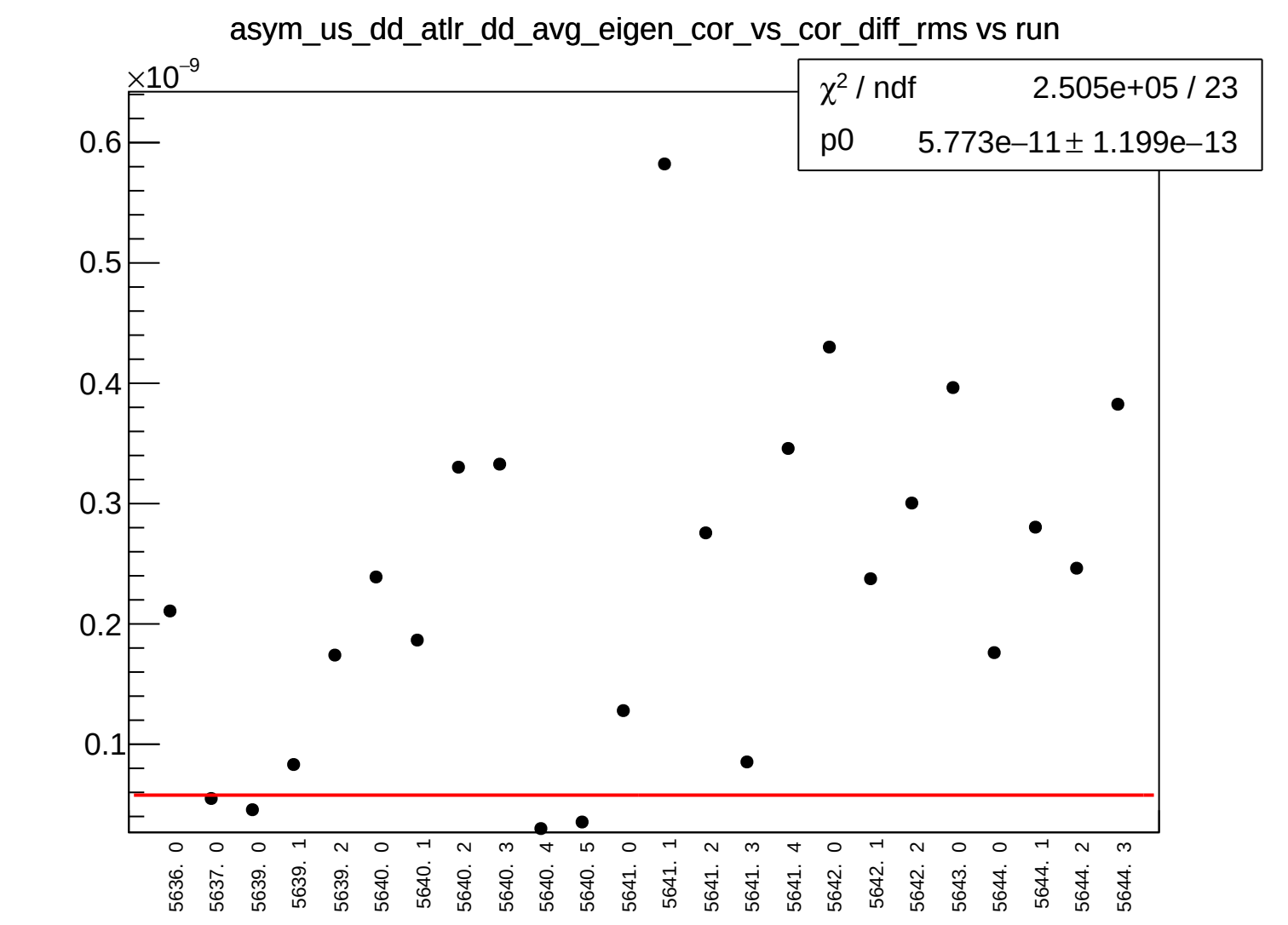

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.467e+04 / 23
p0 101.5 ± 0.1518
220
200
180
160
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

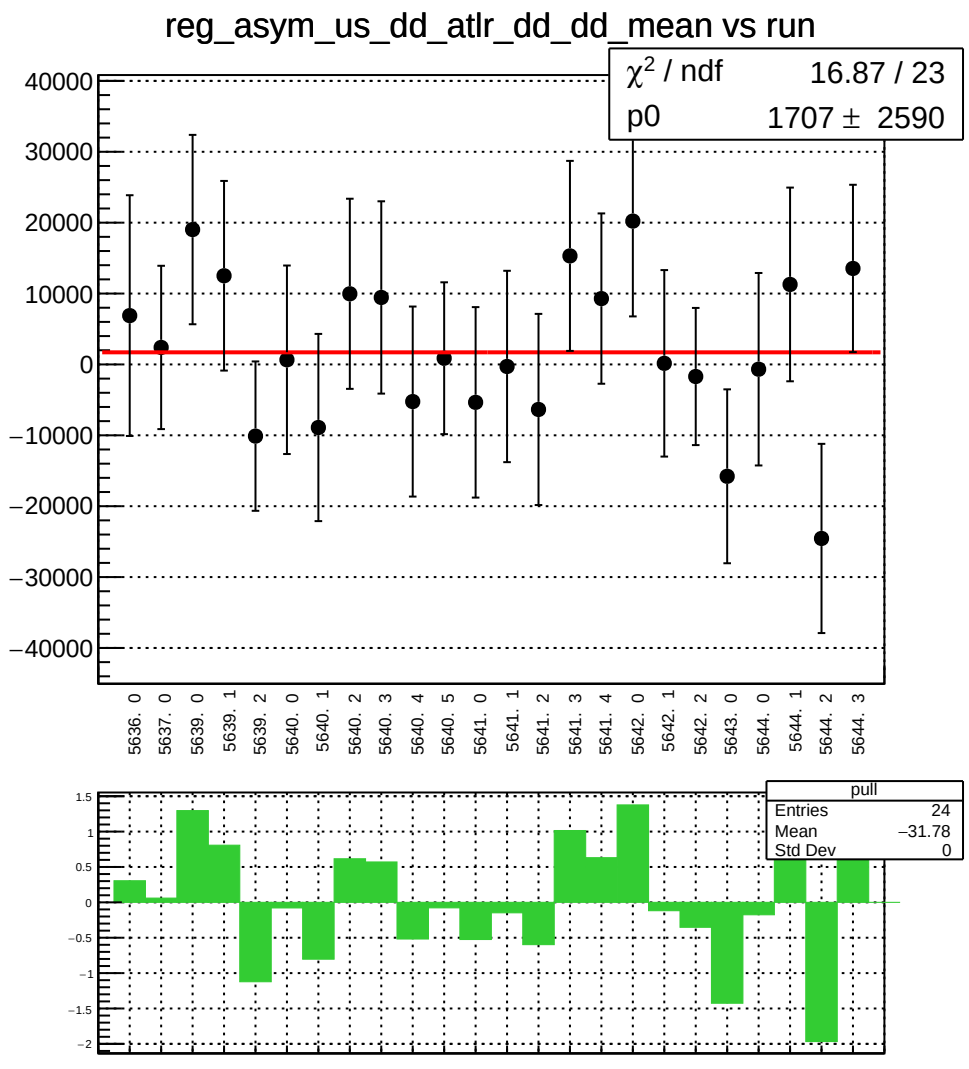

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 18.34 / 23
p0 −0.2021± 0.2146
3
2
1
0
−1
−2
−3
−4
−5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 54.25
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.014
Std Dev 0.8742
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

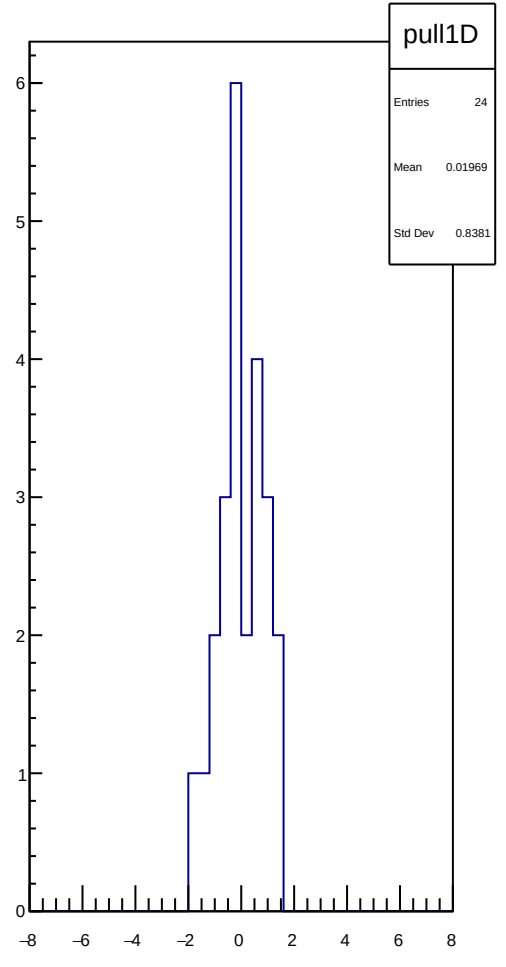

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.467e+04 / 23
p0 101.5 ± 0.1518
220
200
180
160
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

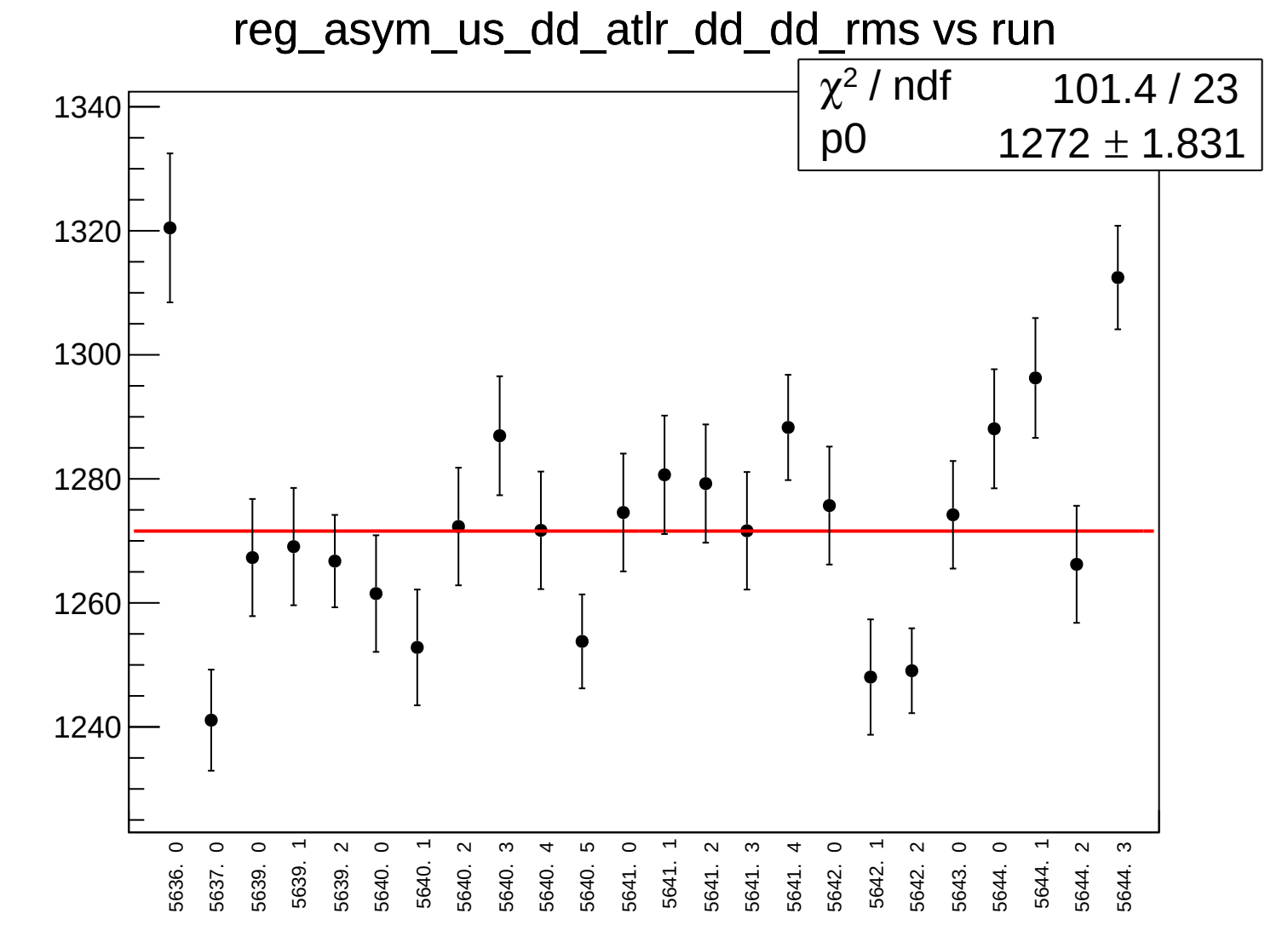

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 35.83 / 23
p0 1.64e−13 ± 1.696e−13
10
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −1.105
Std Dev 0
2
1
0
−1
−2
−3

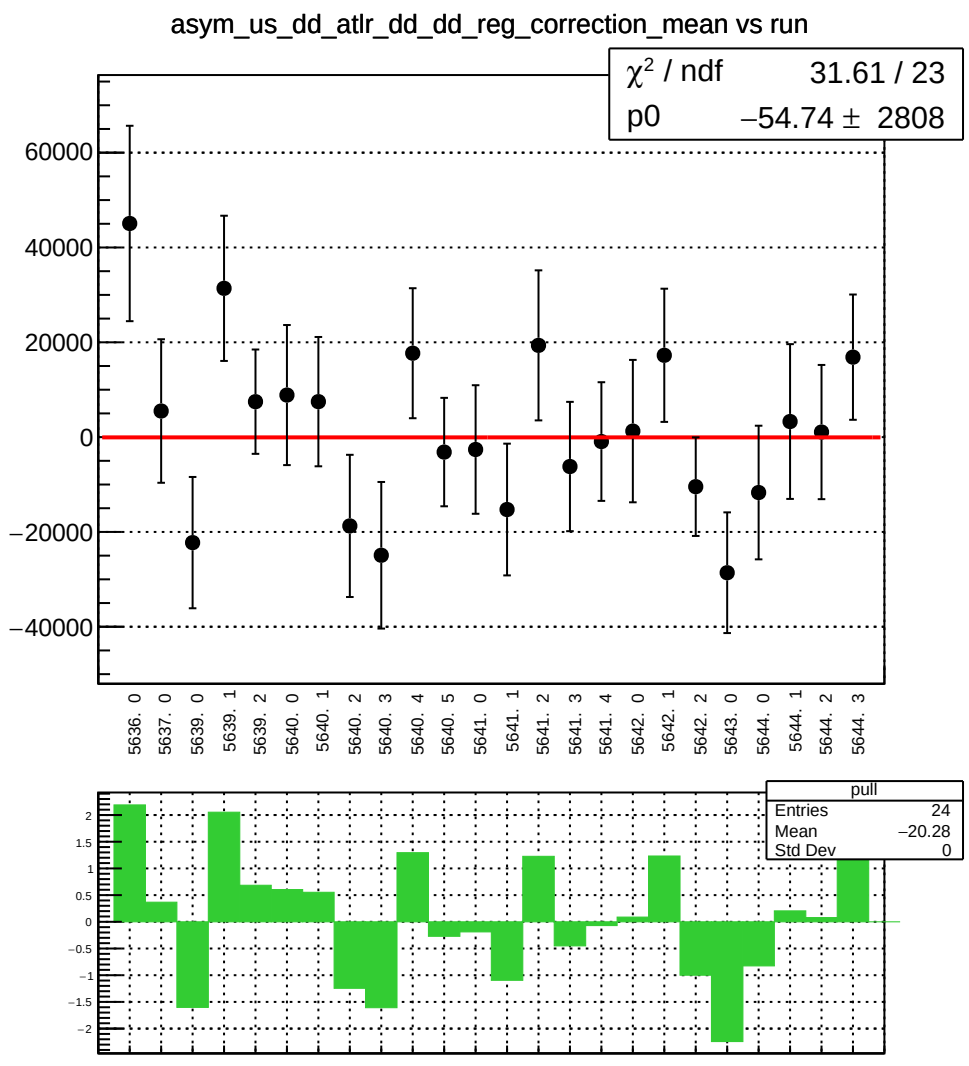

pull1D
Entries 24
Mean 0.2367
Std Dev 1.199
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

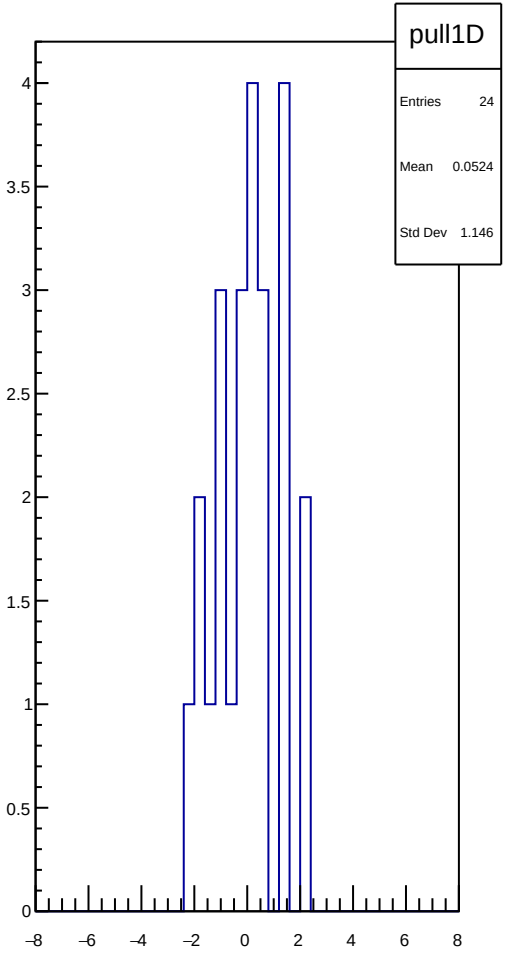

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.505e+05 / 23
p0 5.773e−11 ± 1.199e−13
0.6
0.5
0.4
0.3
0.2
0.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

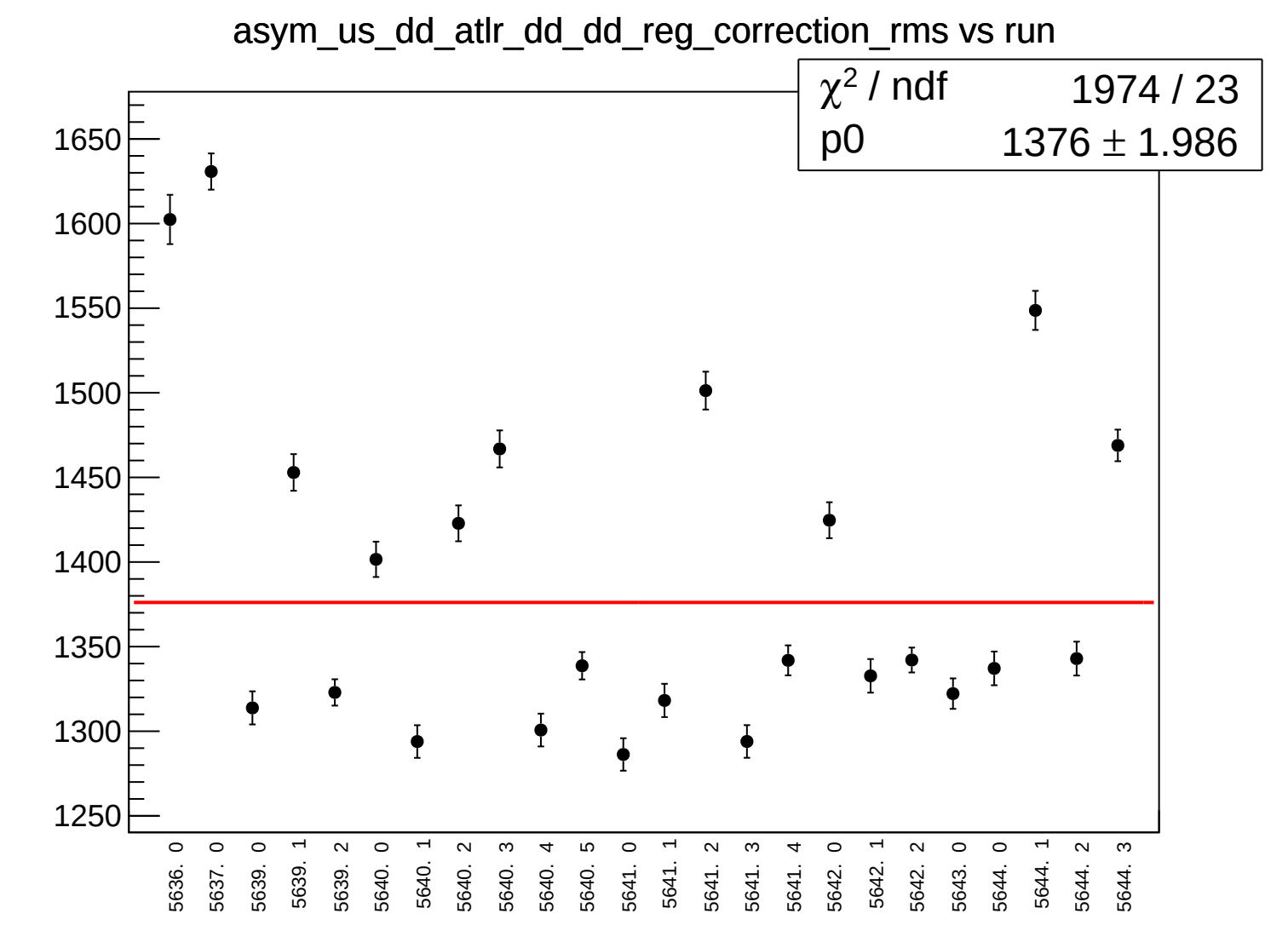

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 16.87 / 23
p0 1707 ± 2590
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −31.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

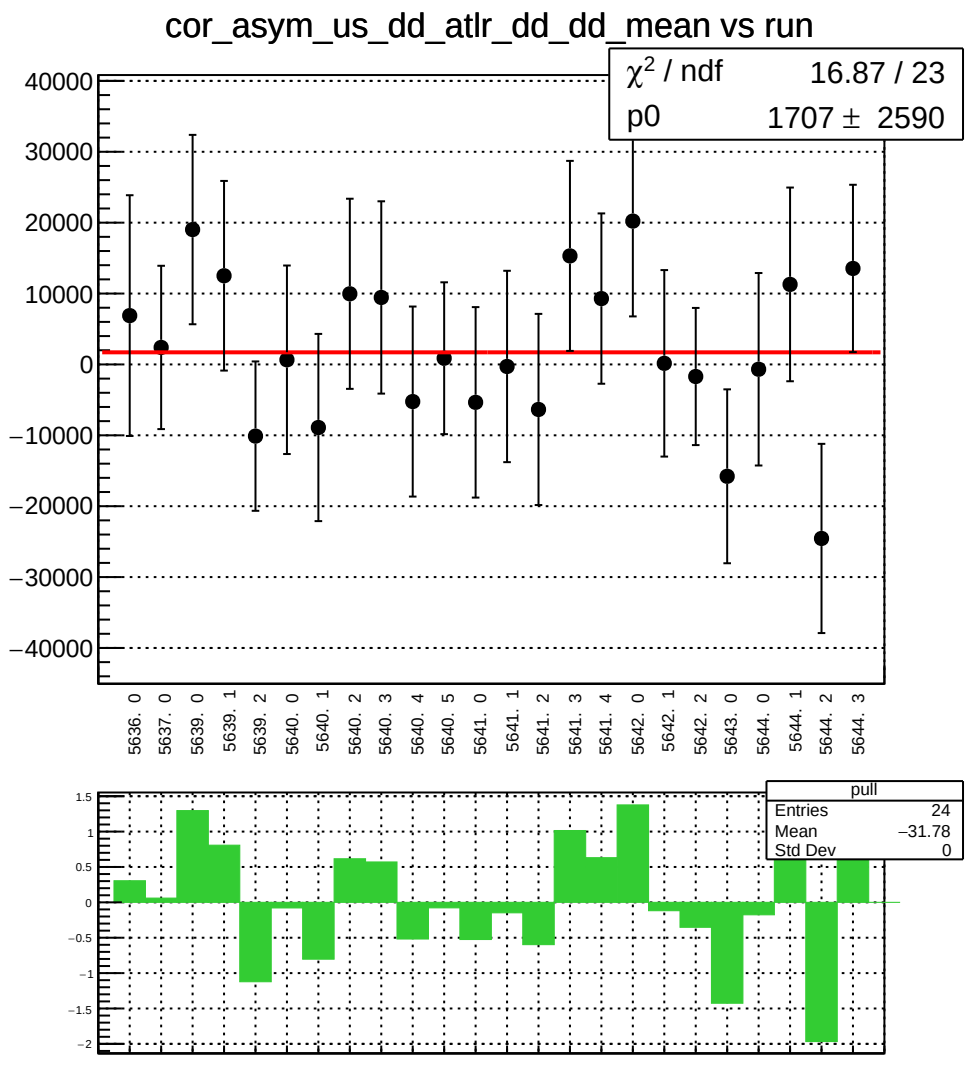

pull1D
Entries 24
Mean 0.01969
Std Dev 0.8381
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

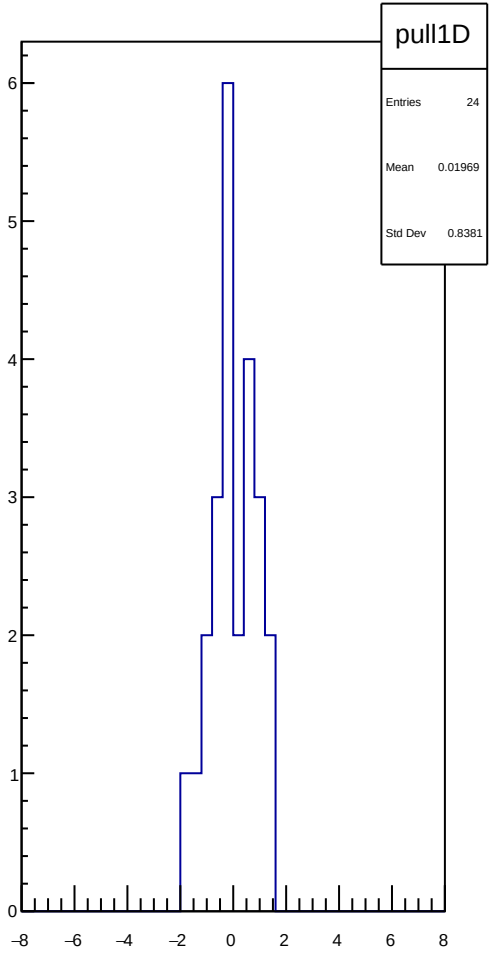

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 101.4 / 23
p0 1272 ± 1.831
1340
1320
1300
1280
1260
1240
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

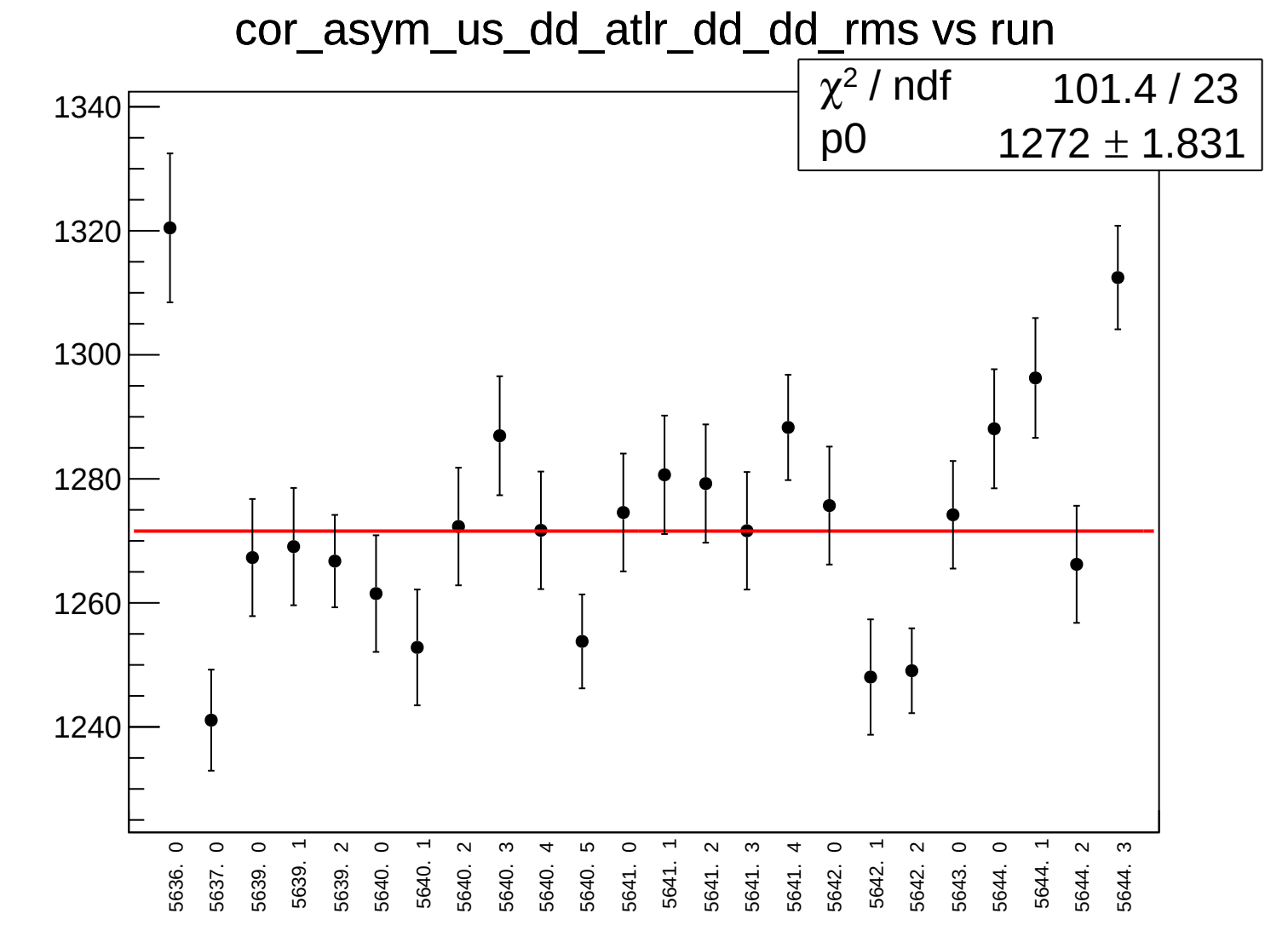

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 31.61 / 23
p0 −54.74 ± 2808
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −20.28
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

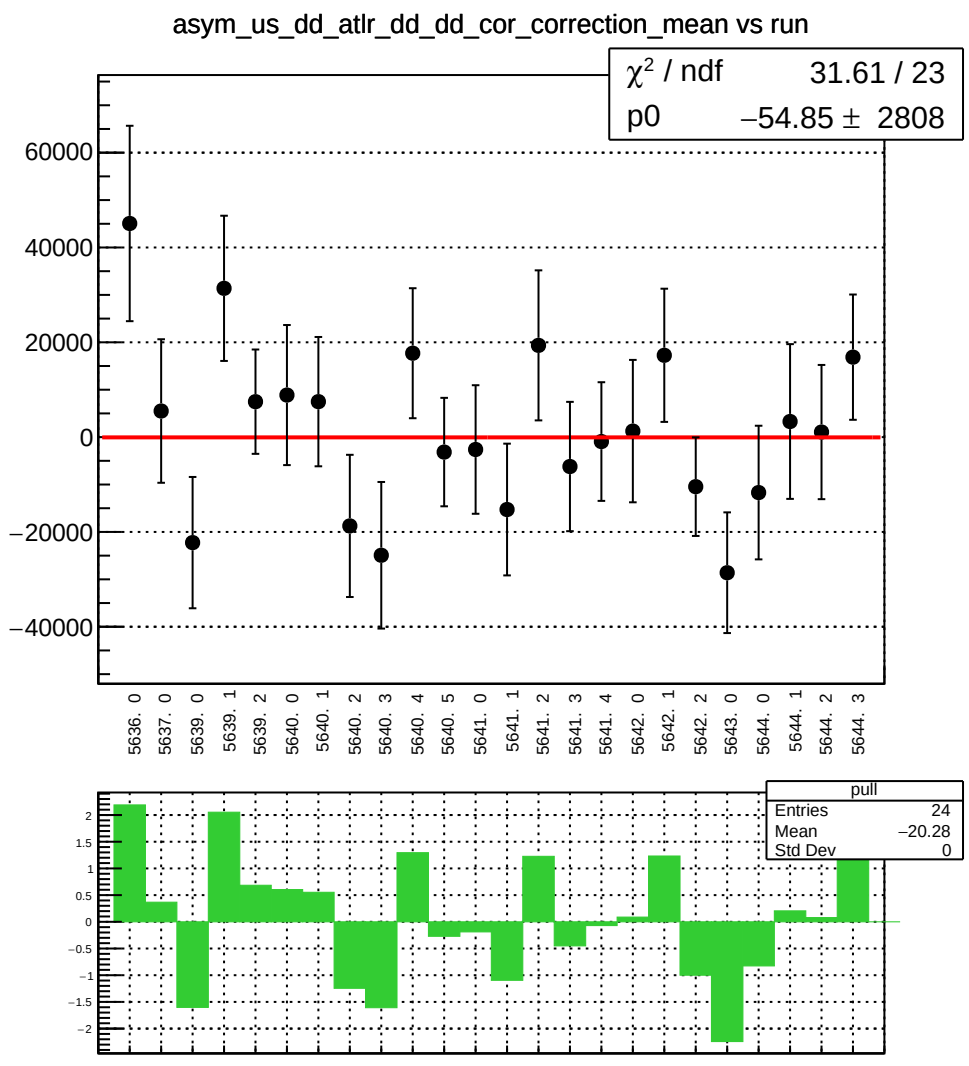

pull1D
Entries 24
Mean 0.0524
Std Dev 1.146
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

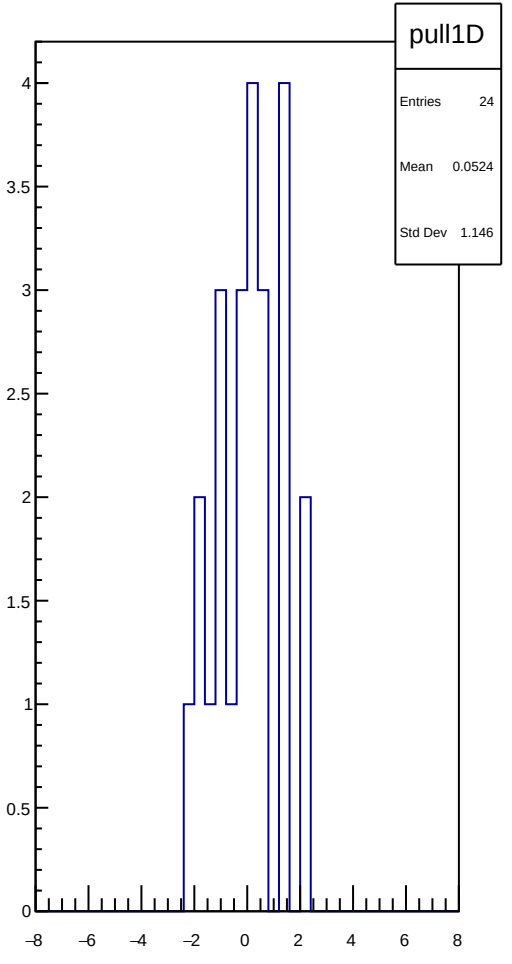

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 1974 / 23
p0 1376 ± 1.986
1650
1600
1550
1500
1450
1400
1350
1300
1250
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

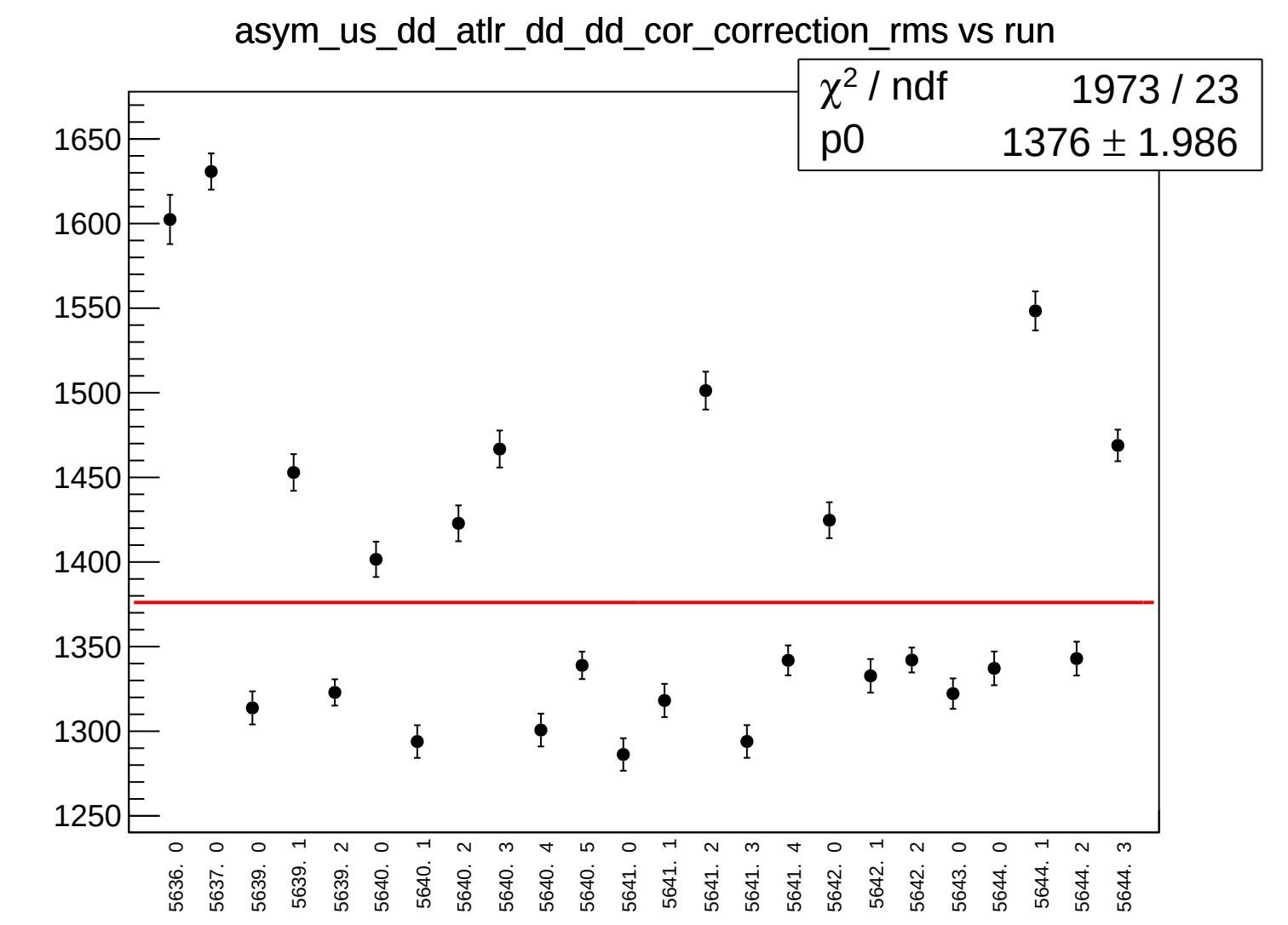

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 16.87 / 23
p0 1707 ± 2590
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −31.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

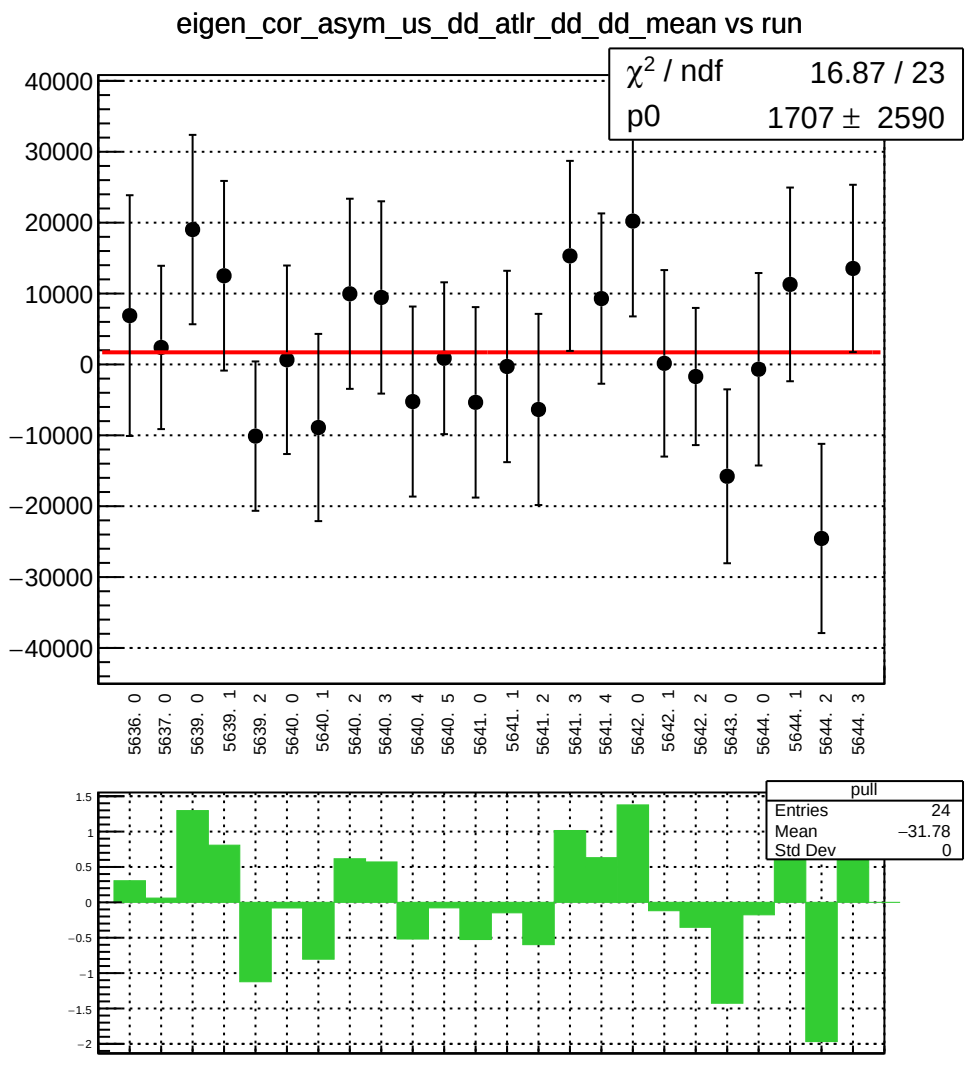

pull1D
Entries 24
Mean 0.01969
Std Dev 0.8381
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

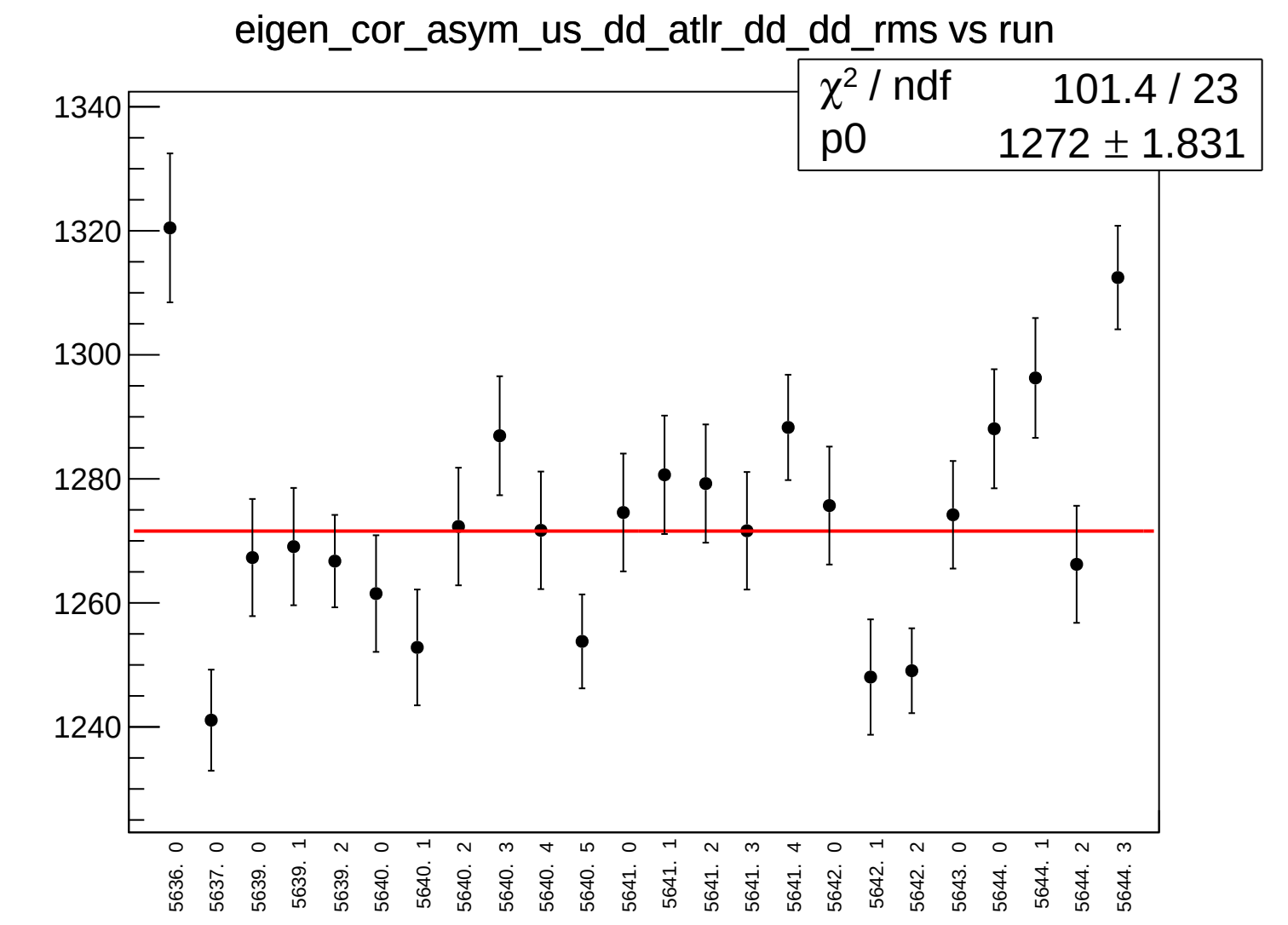

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 101.4 / 23
p0 1272 ± 1.831
1340
1320
1300
1280
1260
1240
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

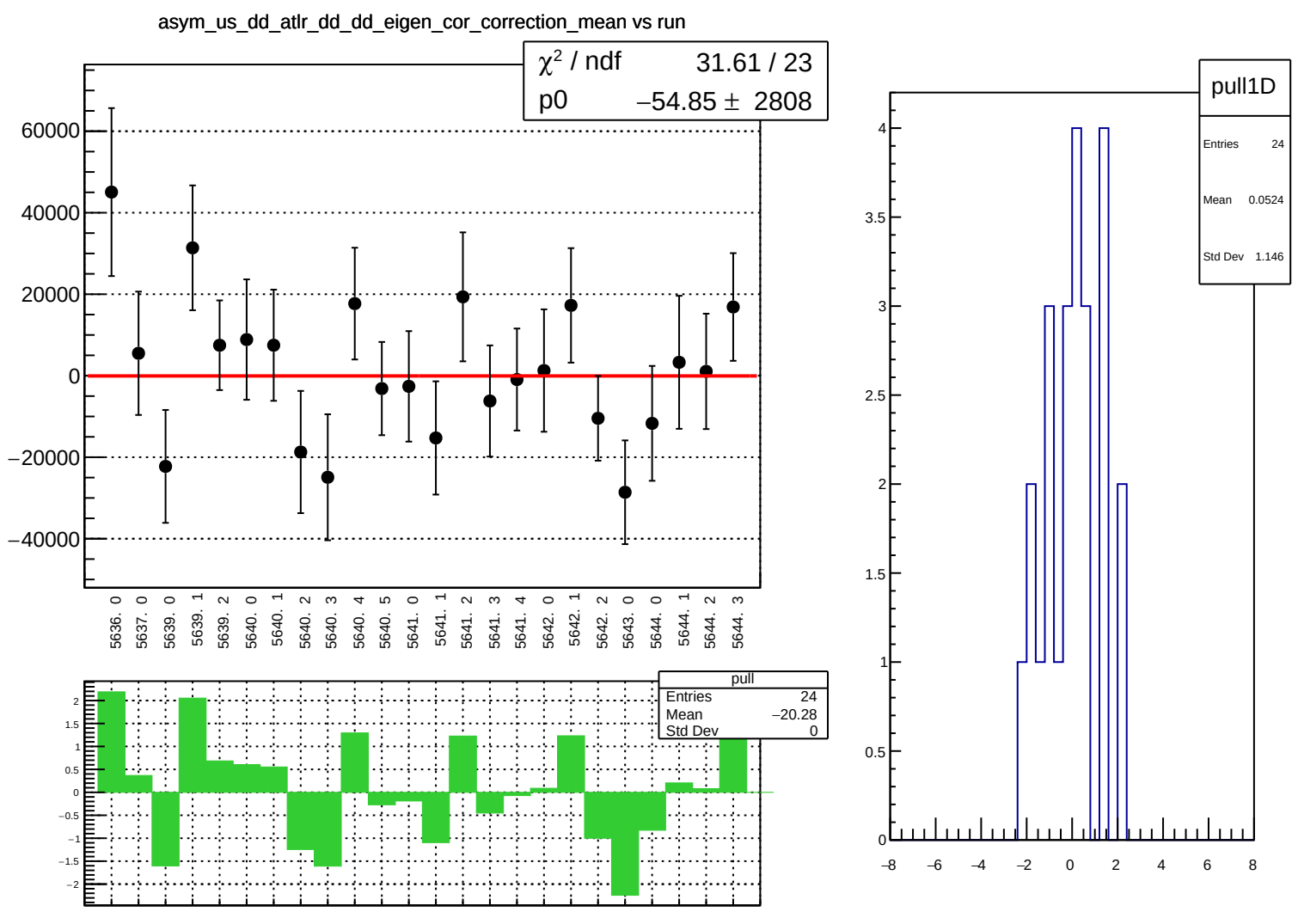

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 31.61 / 23
p0 −54.85 ± 2808
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −20.28
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

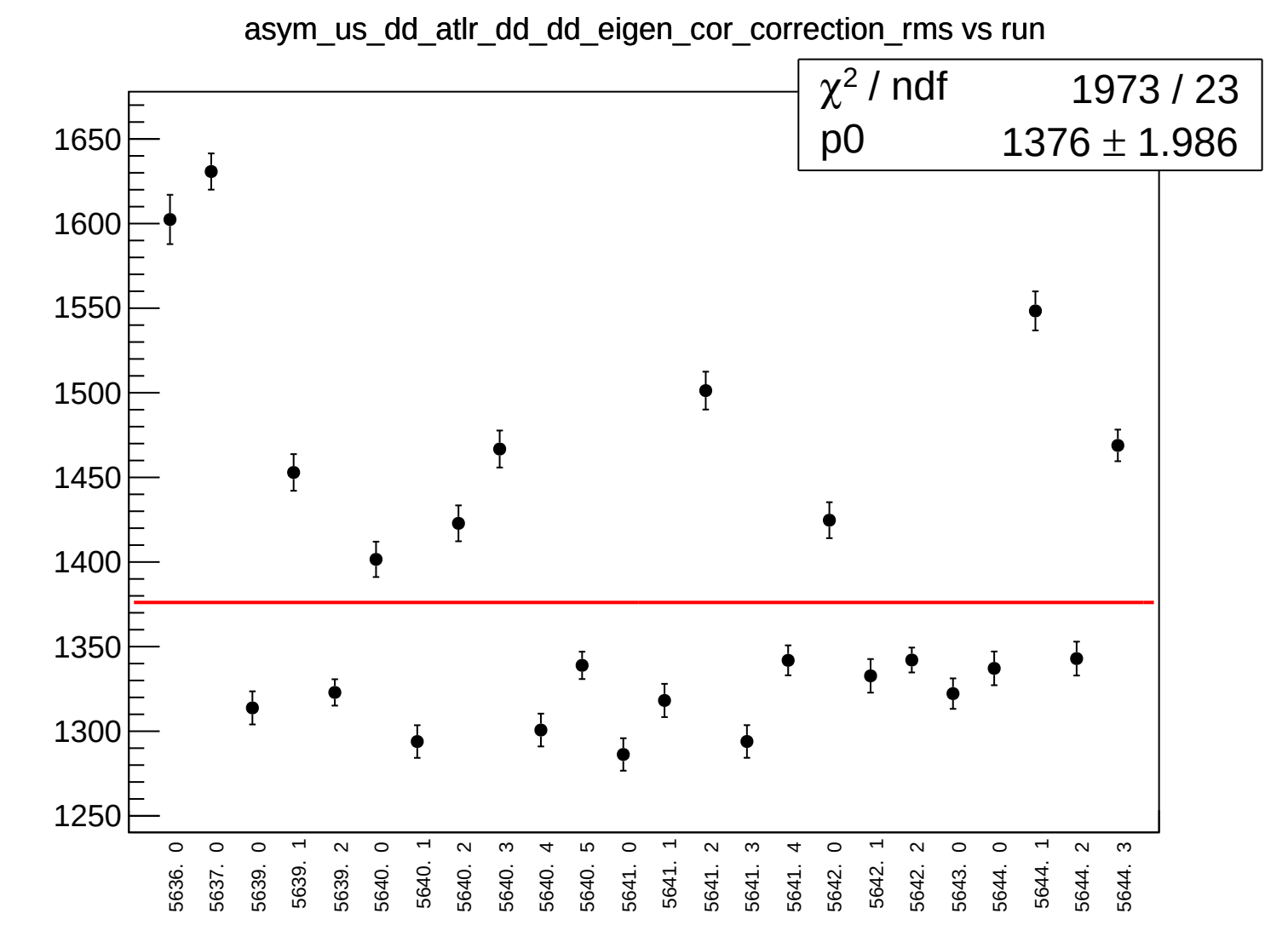

pull1D
Entries 24
Mean 0.0524
Std Dev 1.146
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

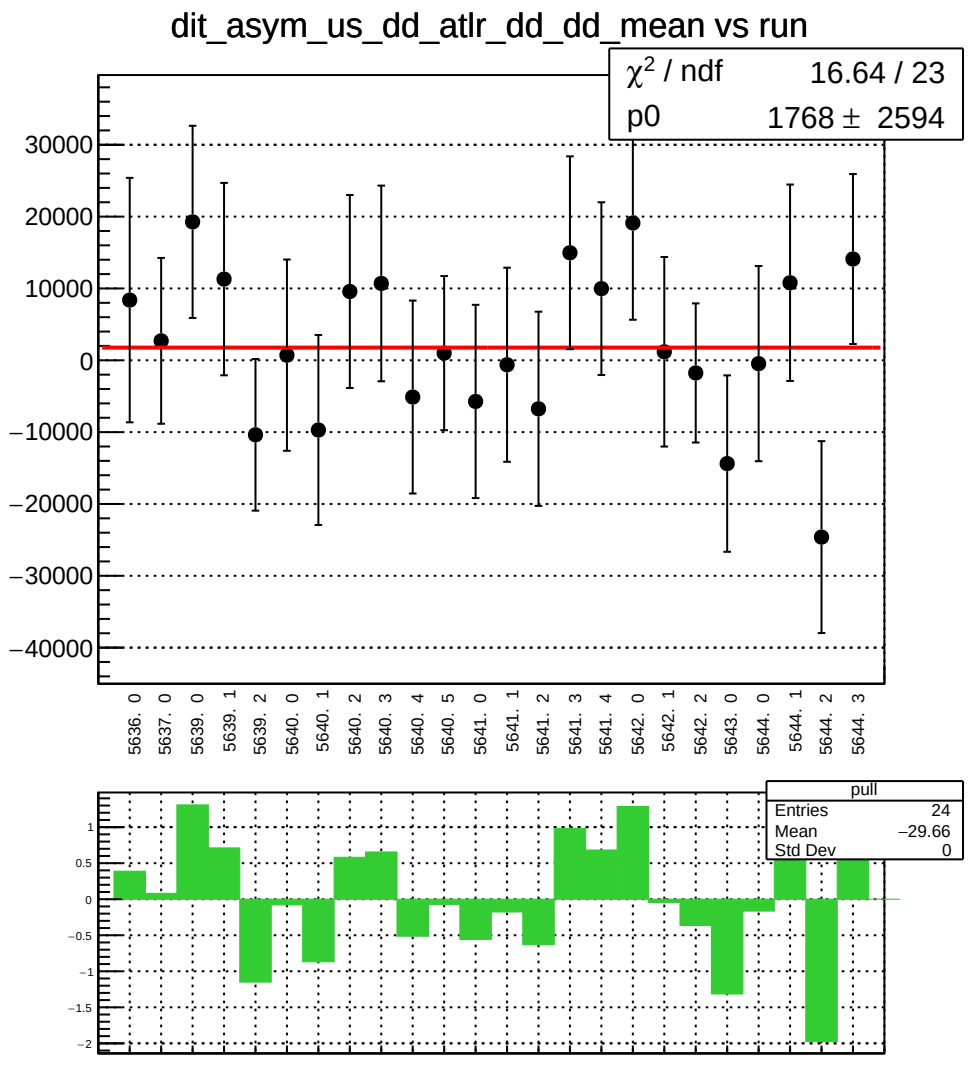

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 1973 / 23
p0 1376 ± 1.986
1650
1600
1550
1500
1450
1400
1350
1300
1250
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

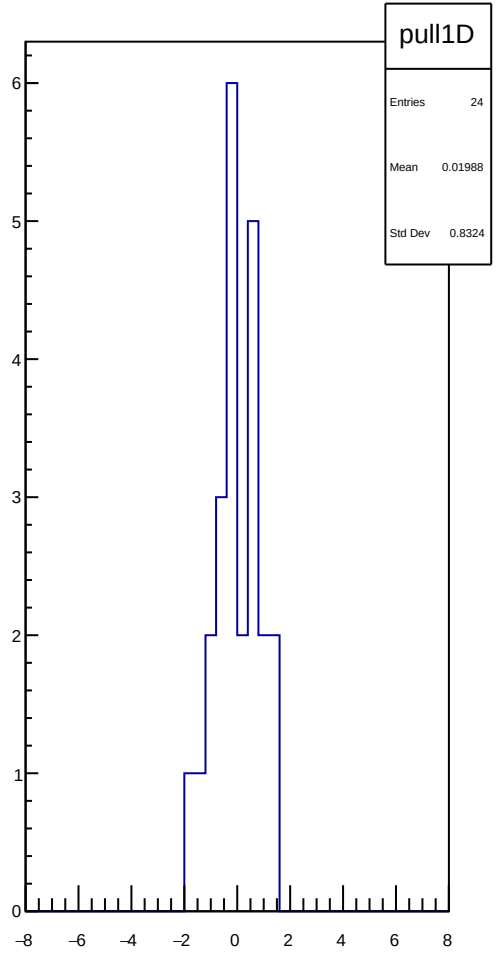

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 16.87 / 23
p0 1707 ± 2590
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −31.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.01969
Std Dev 0.8381
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

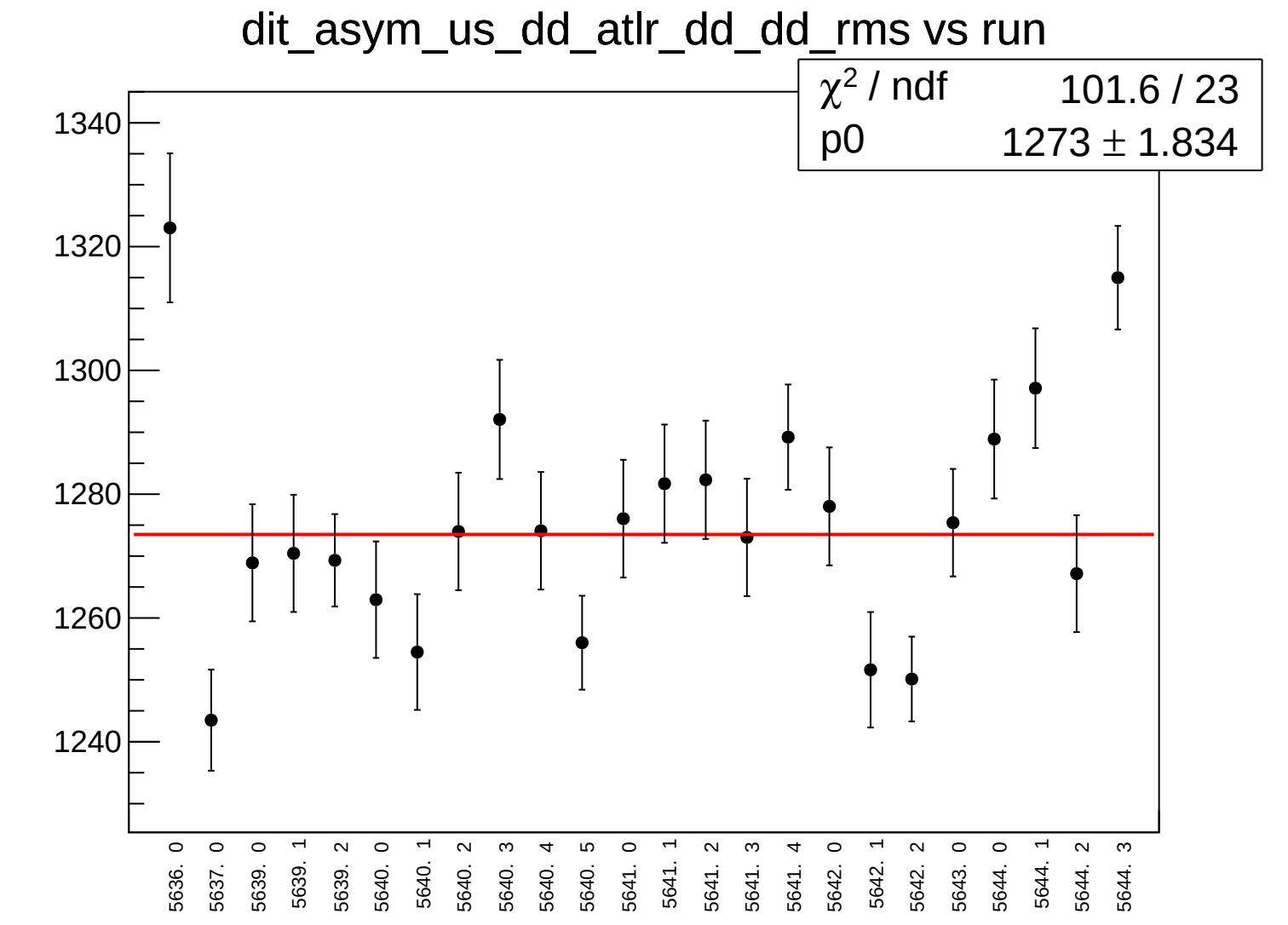

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 101.4 / 23
p0 1272 ± 1.831
1340
1320
1300
1280
1260
1240
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

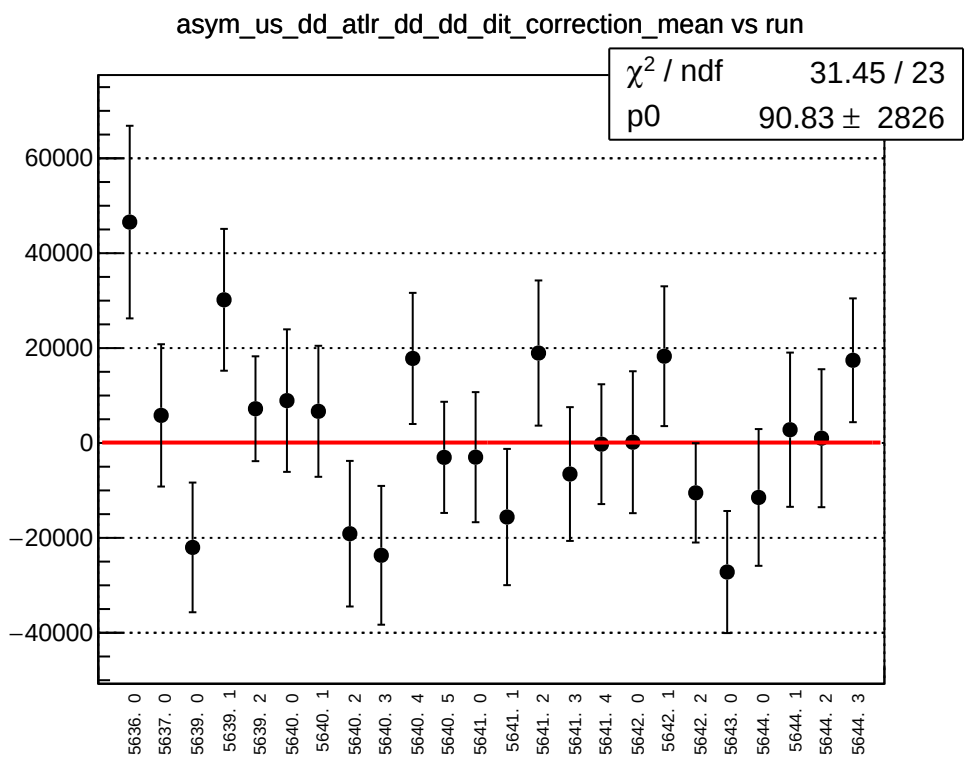

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 31.61 / 23
p0 −54.85 ± 2808
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −20.28
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.0524
Std Dev 1.146
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

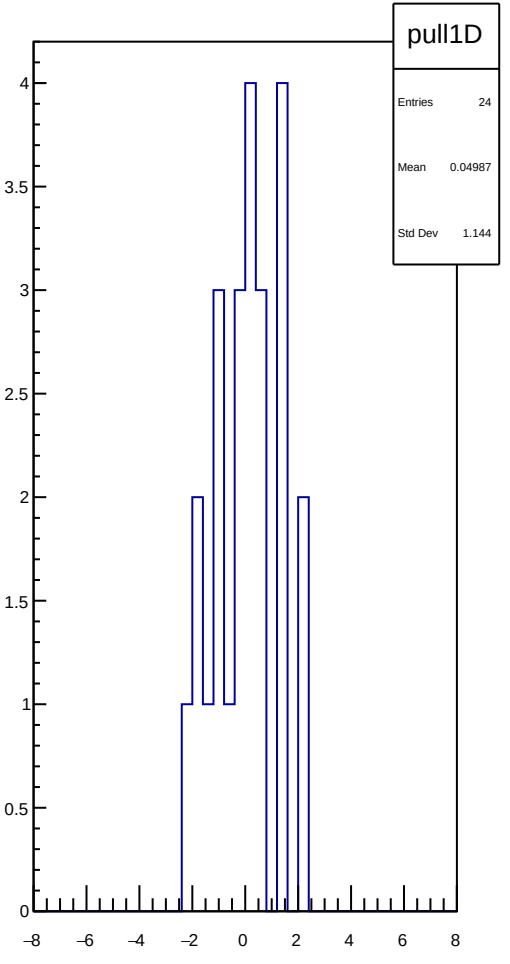

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1973 / 23
p0 1376 ± 1.986
1650
1600
1550
1500
1450
1400
1350
1300
1250
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

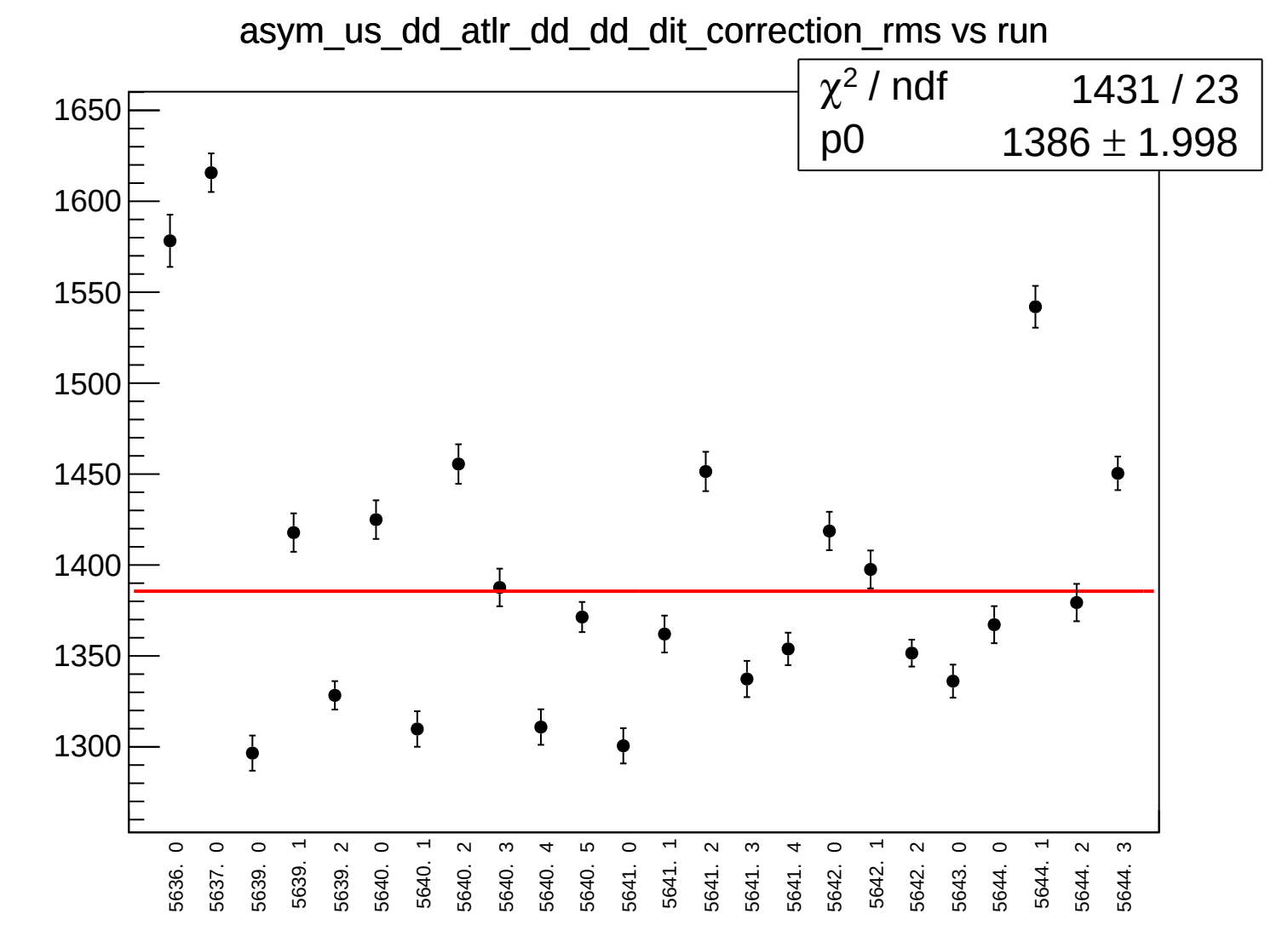

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 16.64 / 23
p0 1768 ± 2594
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −29.66
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

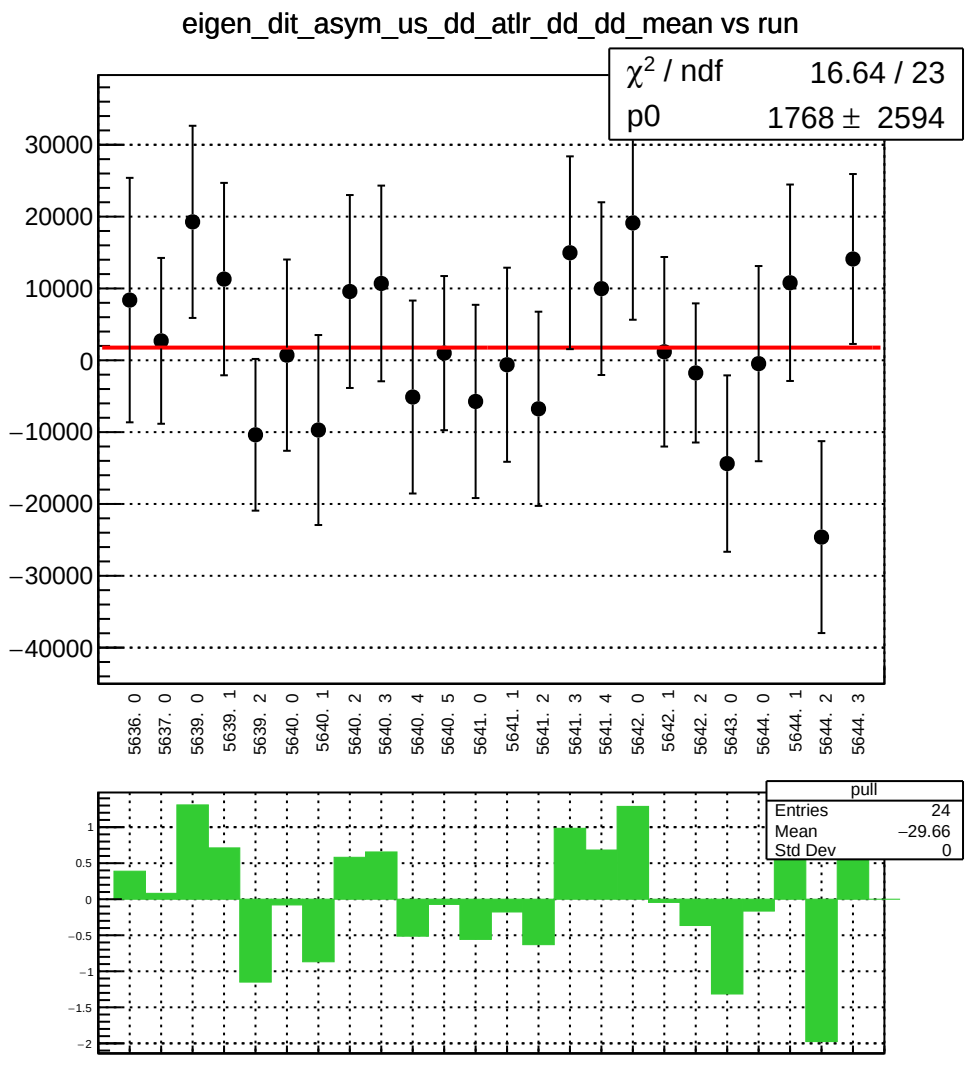

pull1D
Entries 24
Mean 0.01988
Std Dev 0.8324
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

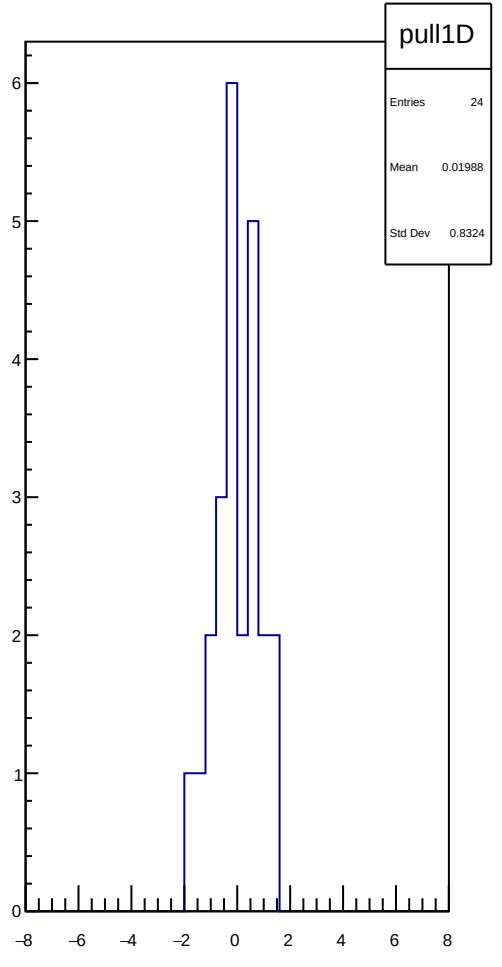

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 101.6 / 23
p0 1273 ± 1.834
1340
1320
1300
1280
1260
1240
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

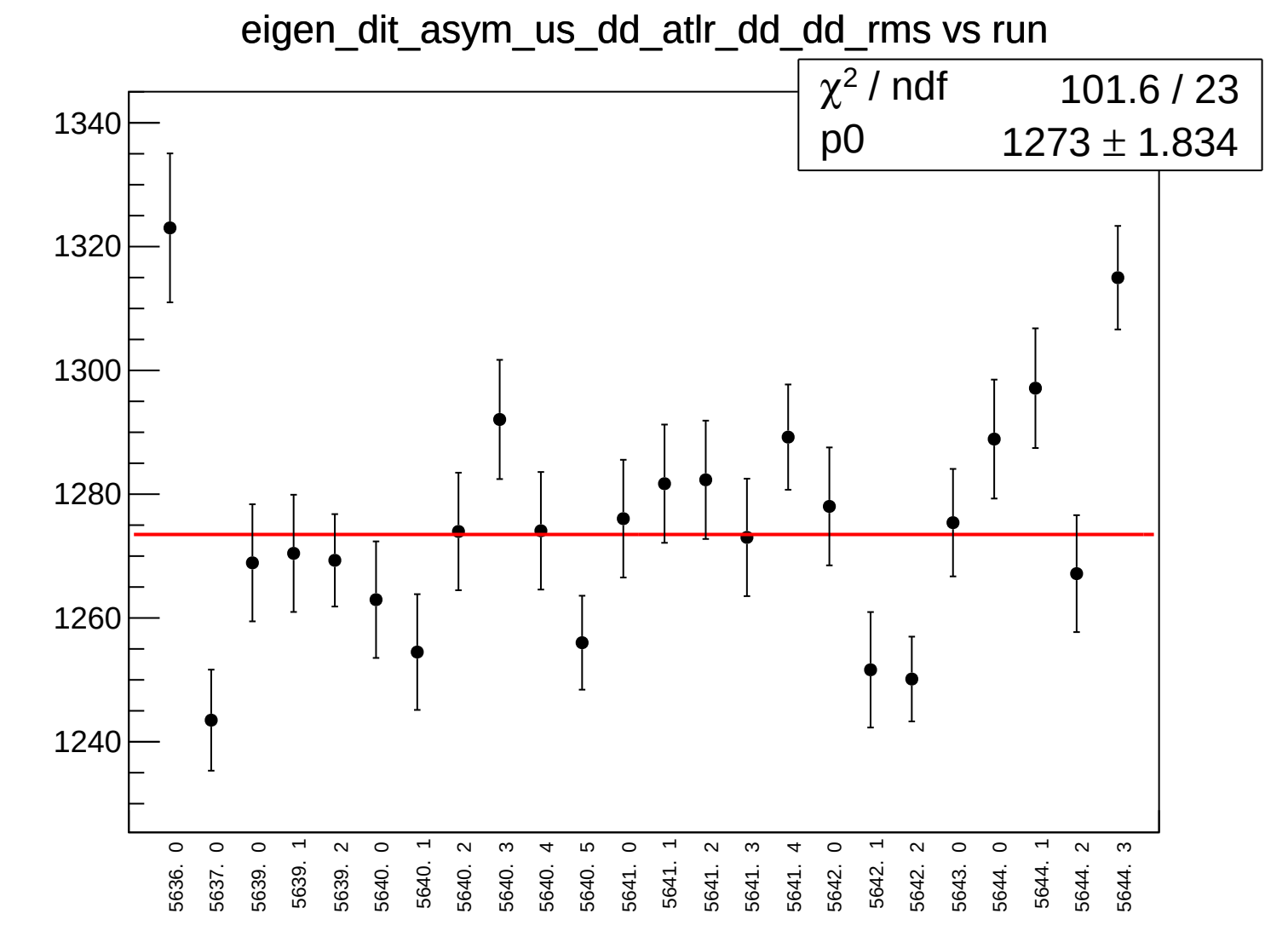

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 31.45 / 23
p0 90.83 ± 2826
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −21.16
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

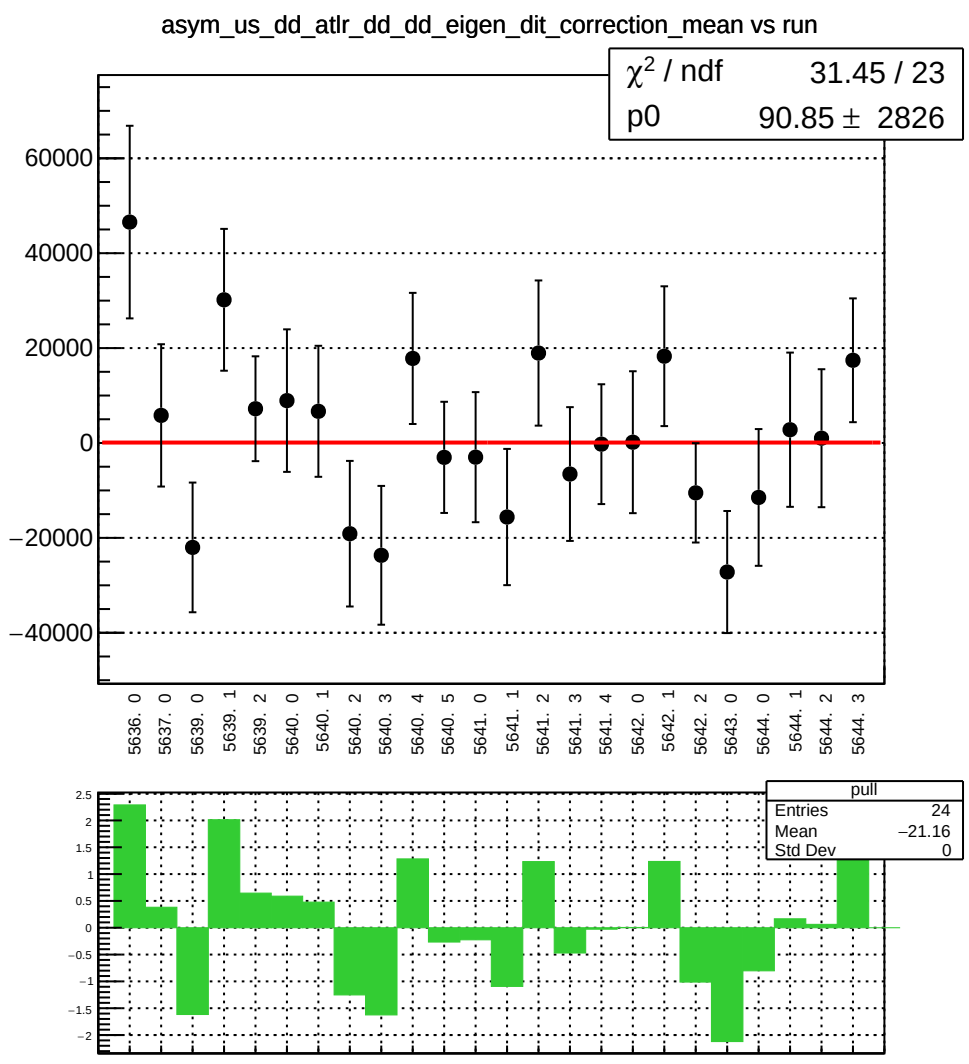

pull1D
Entries 24
Mean 0.04987
Std Dev 1.144
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

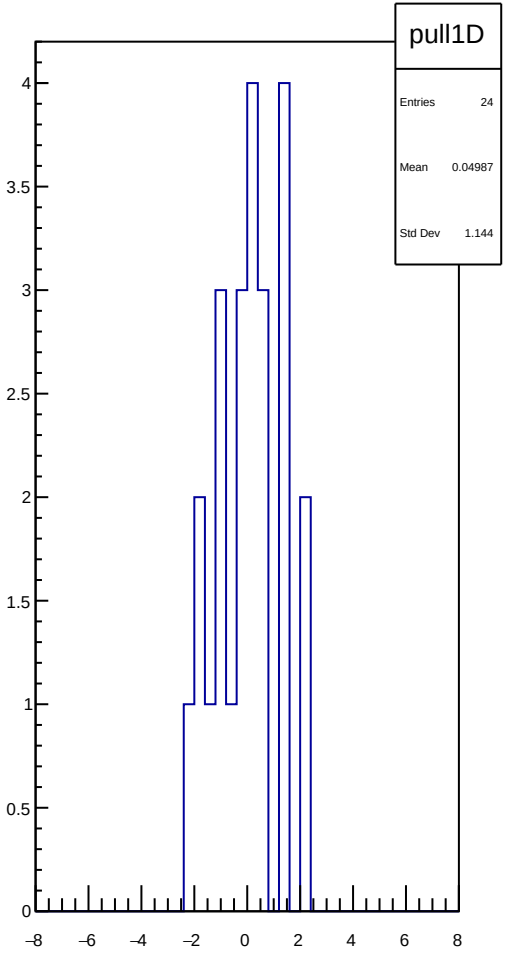

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 1431 / 23
p0 1386 ± 1.998
1650
1600
1550
1500
1450
1400
1350
1300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

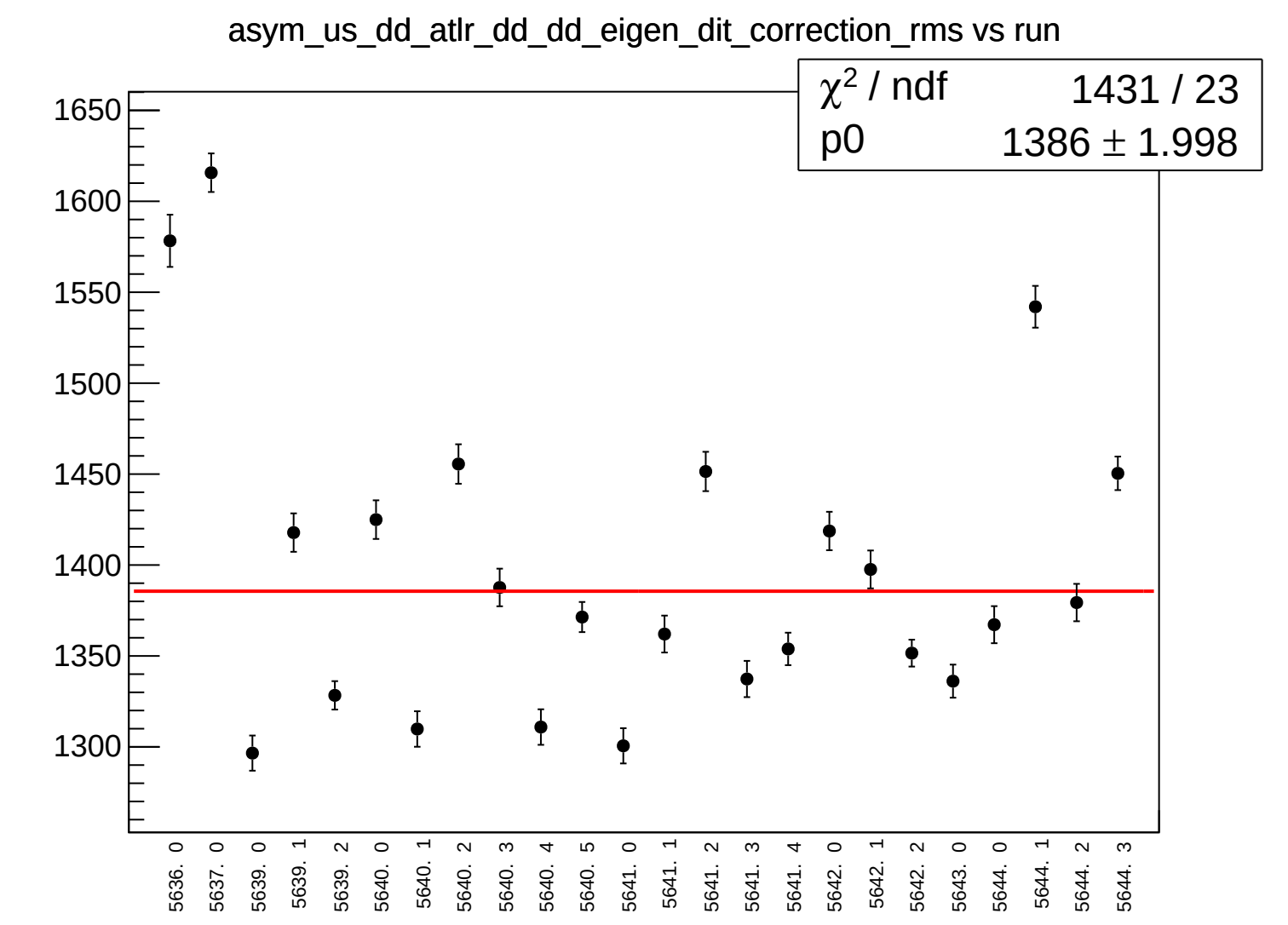

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 16.64 / 23
p0 1768 ± 2594
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −29.66
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

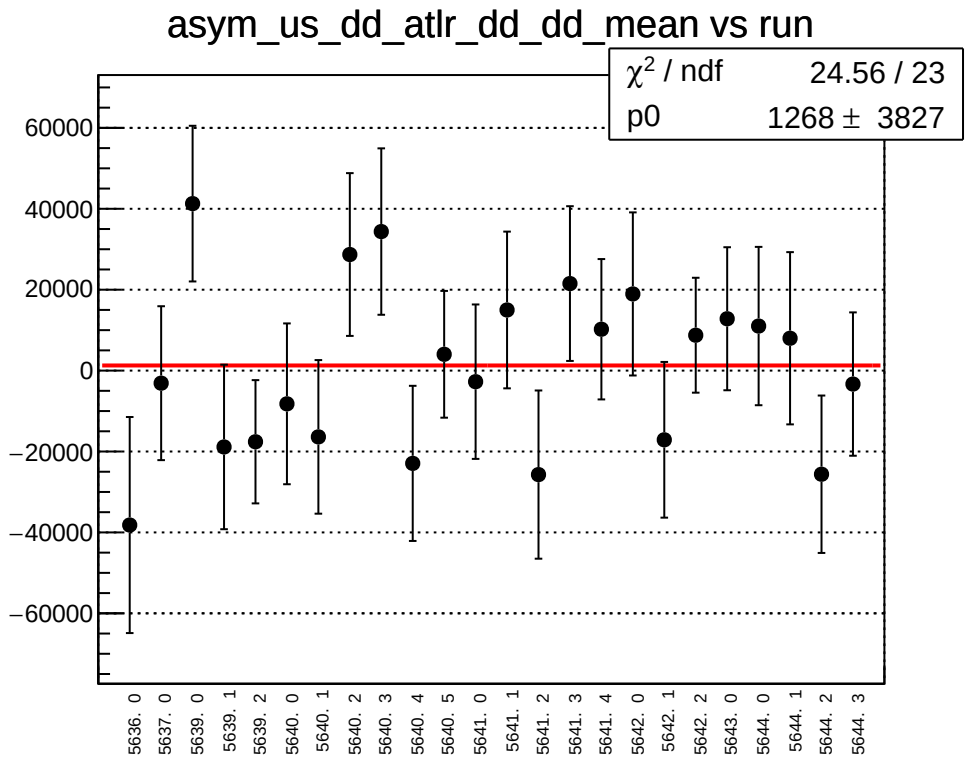

pull1D
Entries 24
Mean 0.01988
Std Dev 0.8324
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

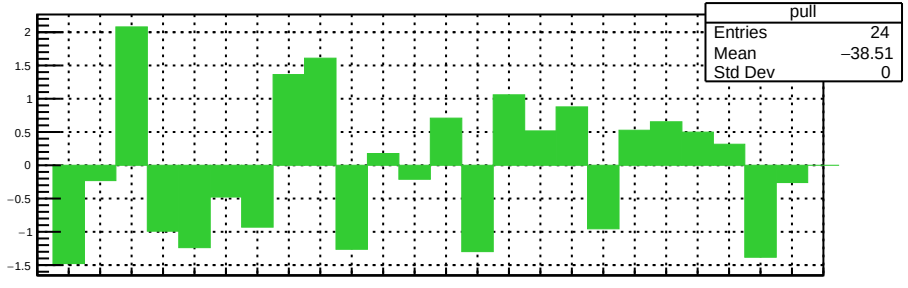

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 101.6 / 23
p0 1273 ± 1.834
1340
1320
1300
1280
1260
1240
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

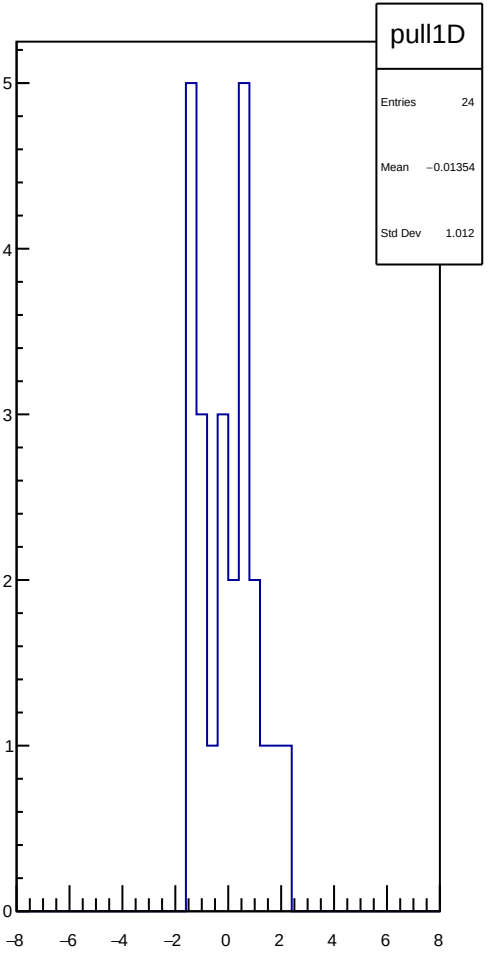

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 31.45 / 23
p0 90.85 ± 2826
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −21.16
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

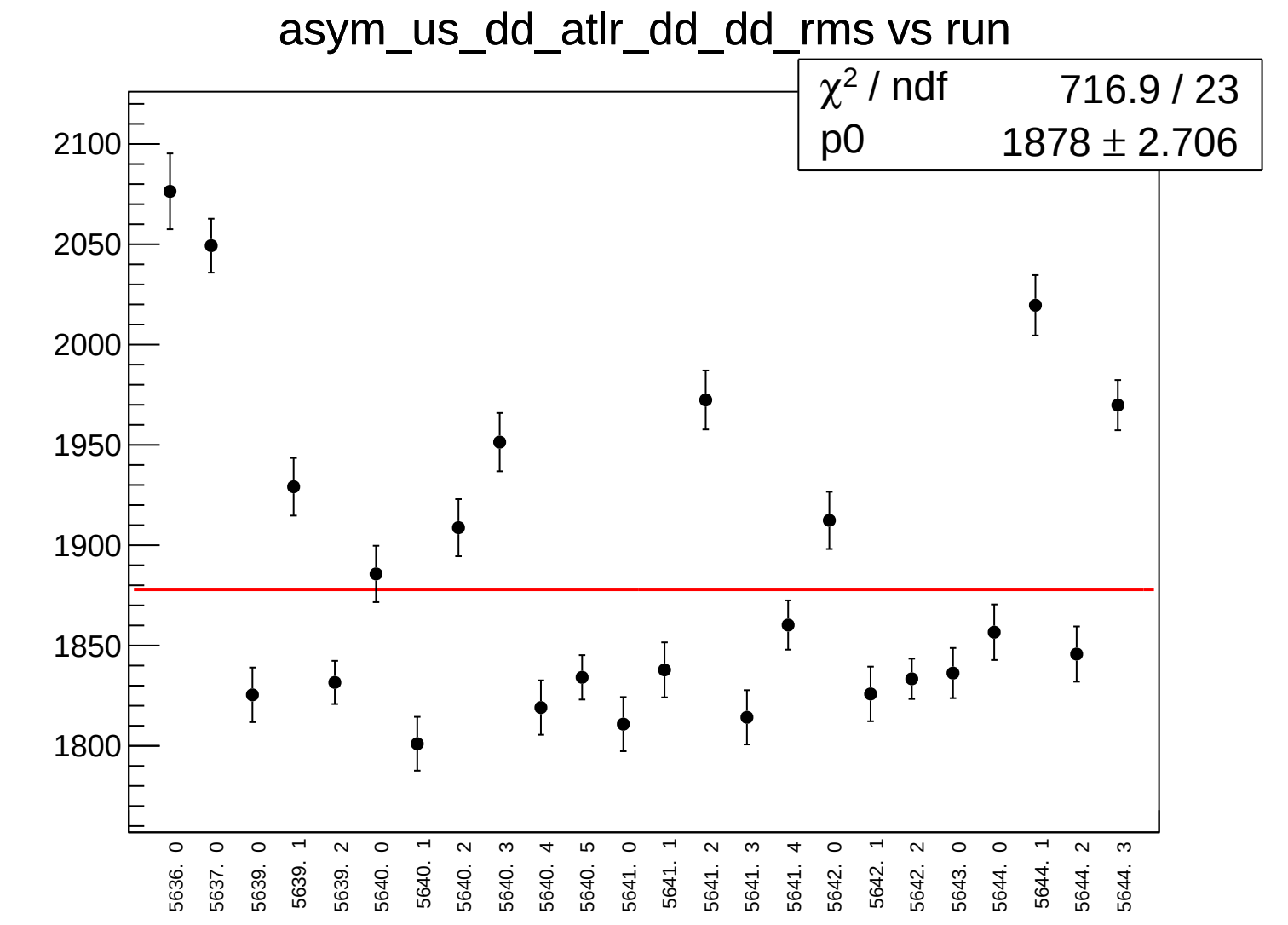

pull1D
Entries 24
Mean 0.04987
Std Dev 1.144
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

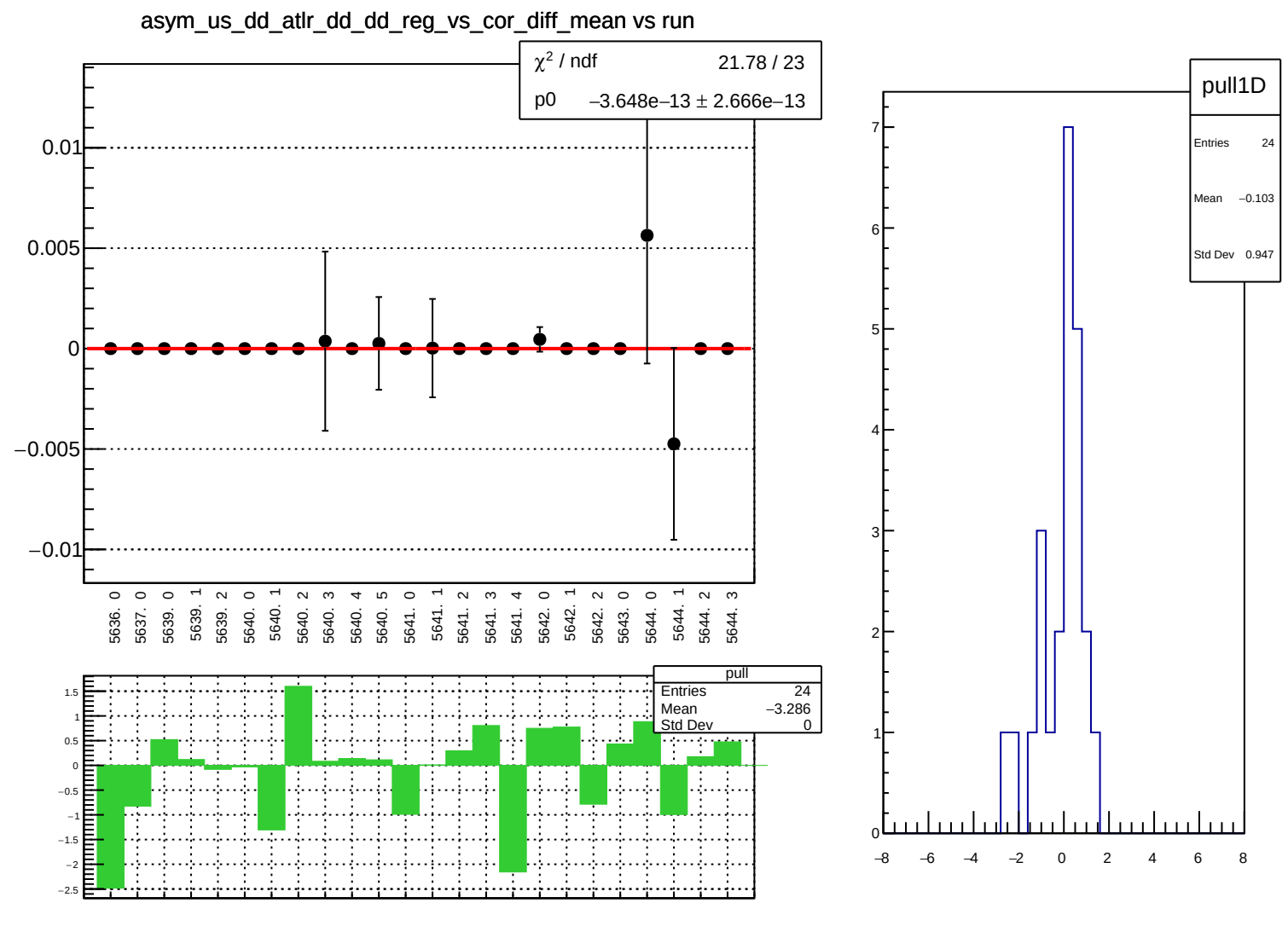

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1431 / 23
p0 1386 ± 1.998
1650
1600
1550
1500
1450
1400
1350
1300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

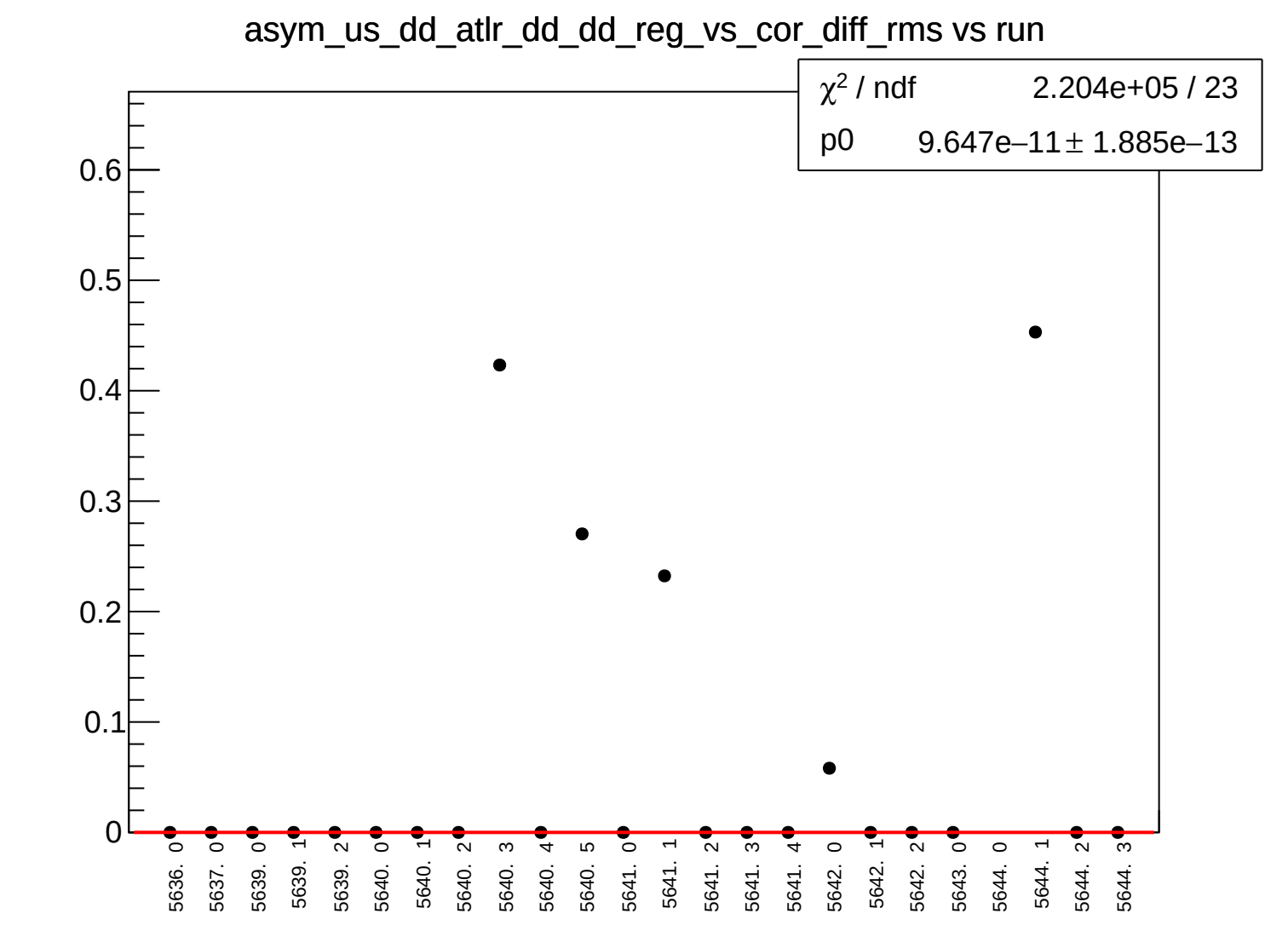

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 24.56 / 23
p0 1268 ± 3827
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

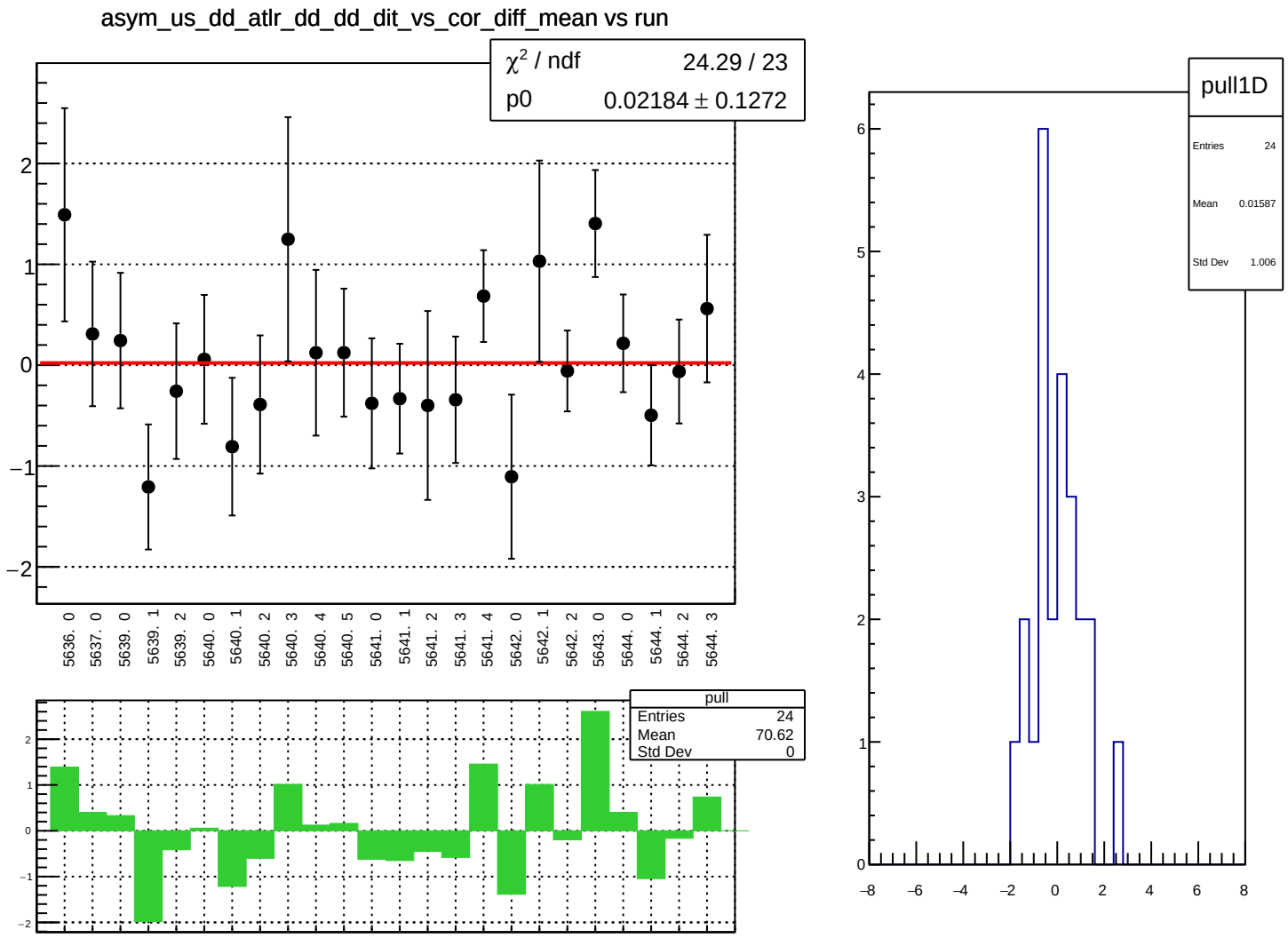

pull
Entries 24
Mean −38.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

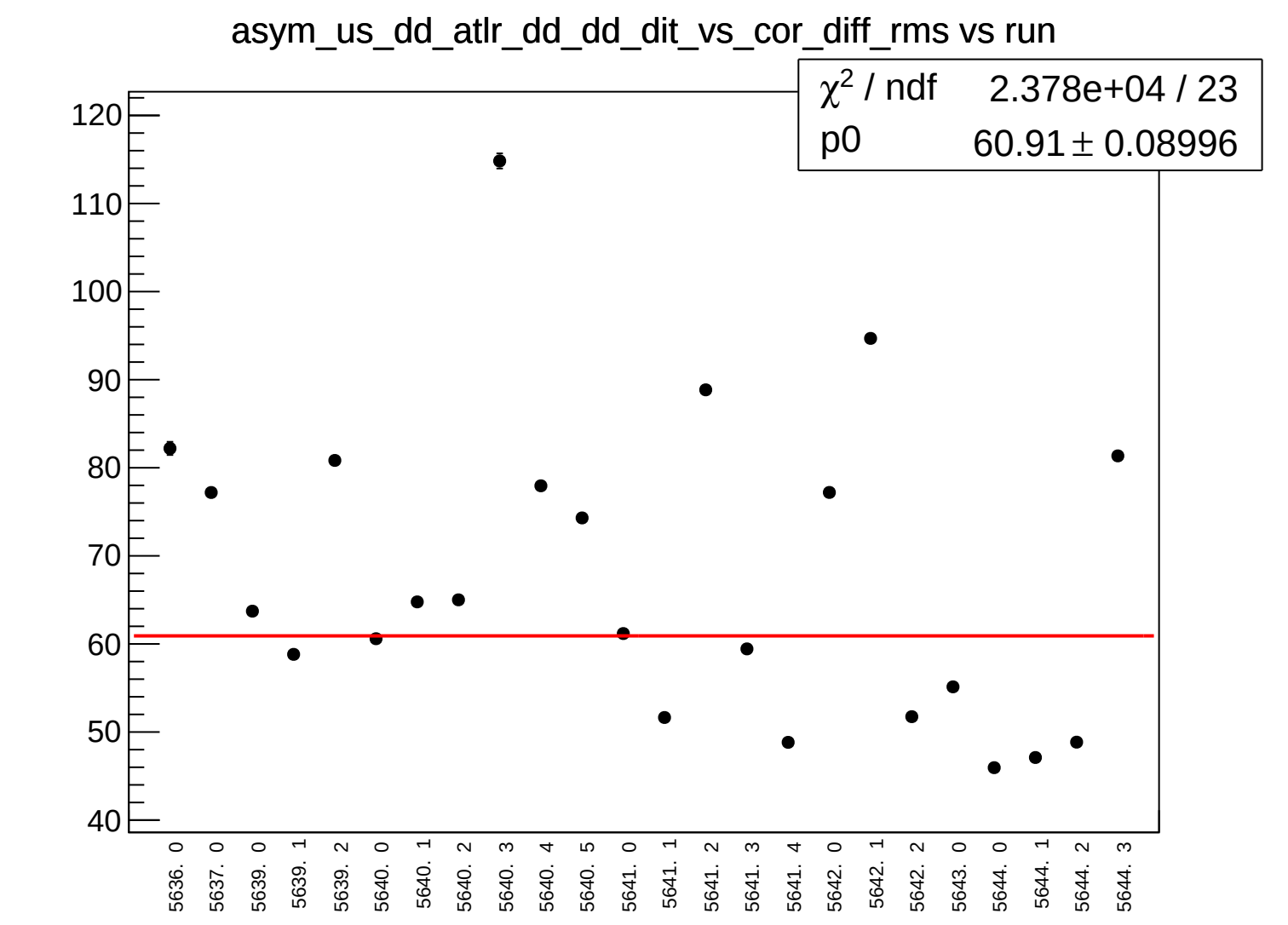

pull1D
Entries 24
Mean −0.01354
Std Dev 1.012
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 716.9 / 23
p0 1878 ± 2.706
2100
2050
2000
1950
1900
1850
1800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 21.78 / 23
p0 −3.648e−13 ± 2.666e−13
0.01
0.005
0
−0.005
−0.01
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −3.286
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean −0.103
Std Dev 0.947
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.204e+05 / 23
p0 9.647e−11 ± 1.885e−13
0.6
0.5
0.4
0.3
0.2
0.1
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 24.29 / 23
p0 0.02184 ± 0.1272
2
1
0
−1
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 70.62
Std Dev 0
pull1D
Entries 24
Mean 0.01587
Std Dev 1.006
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.378e+04 / 23
p0 60.91 ± 0.08996
120
110
100
90
80
70
60
50
40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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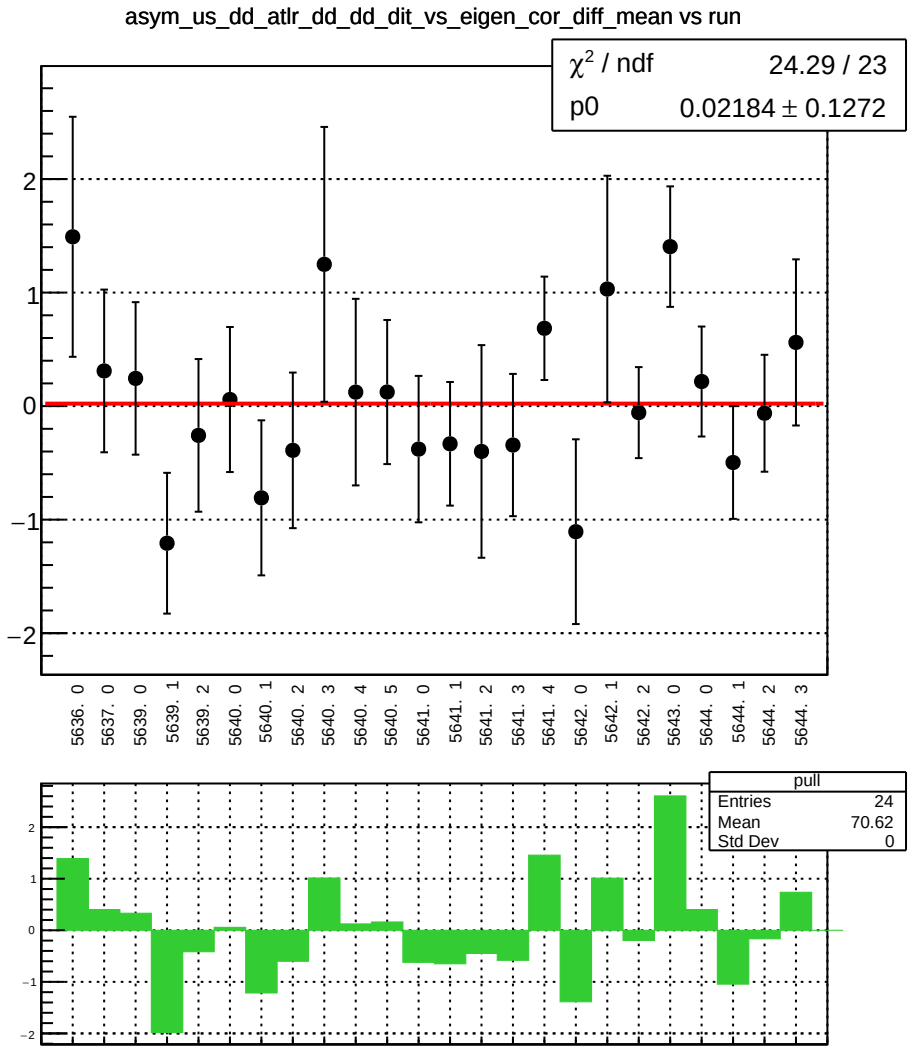
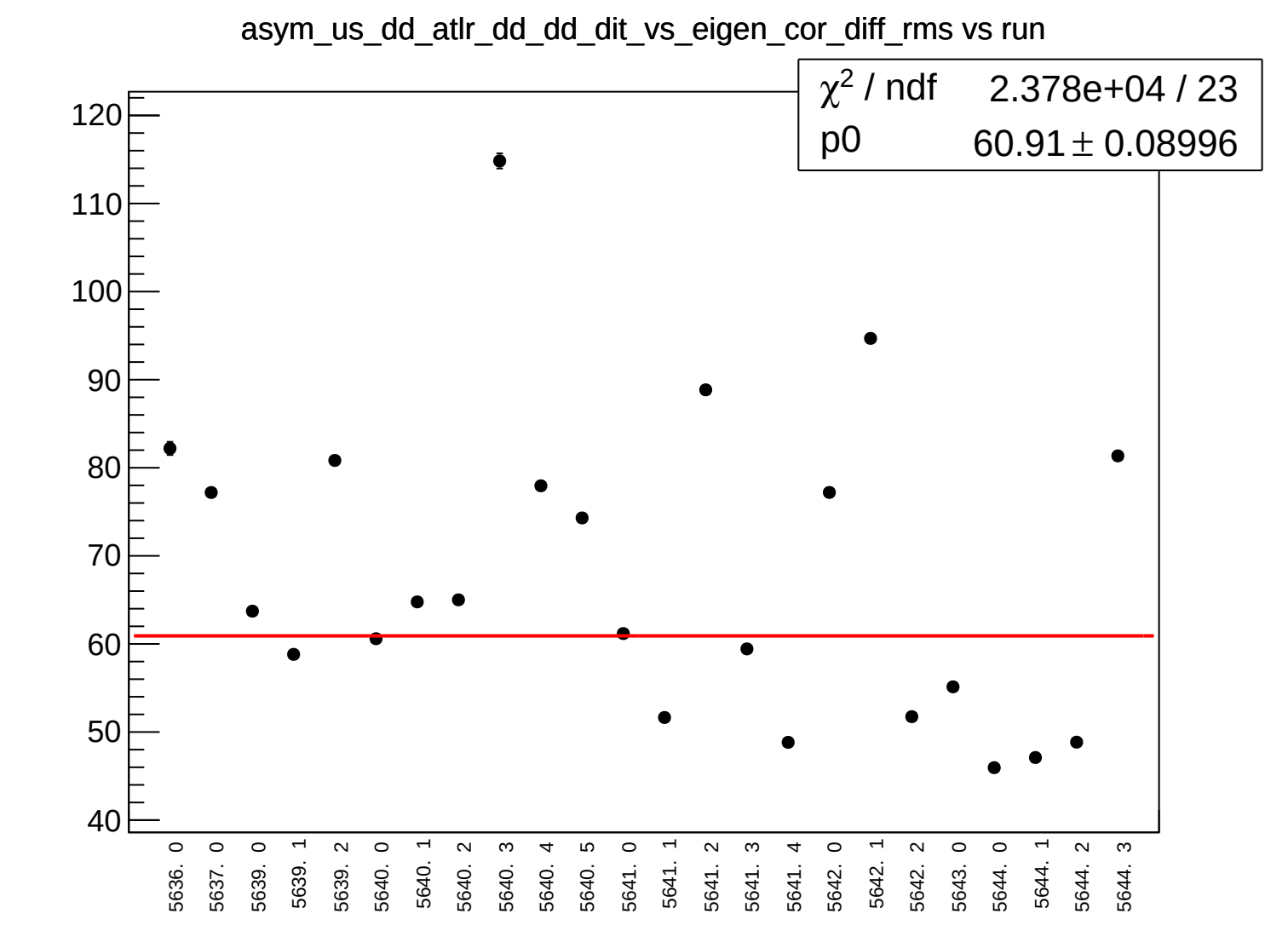
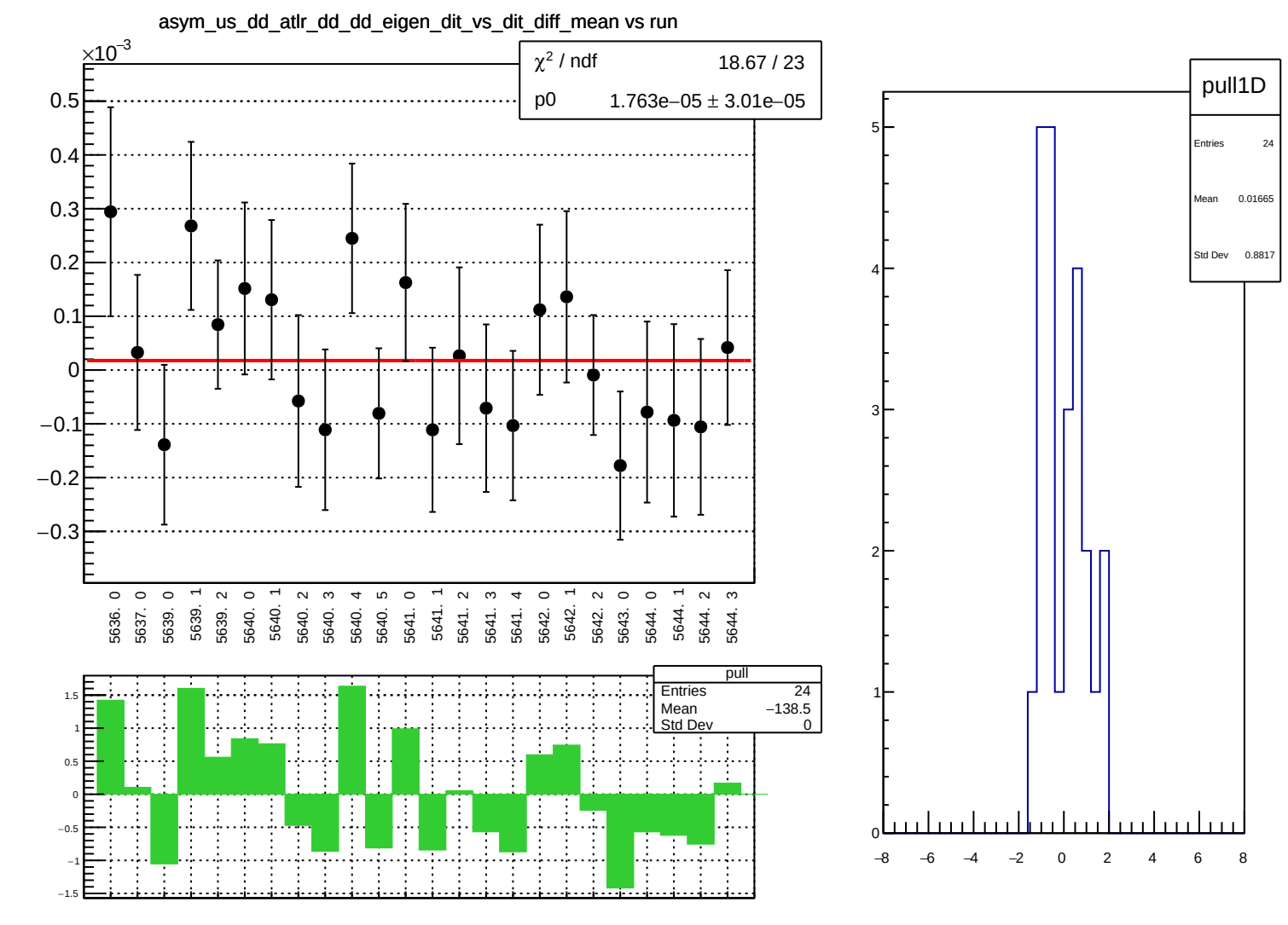
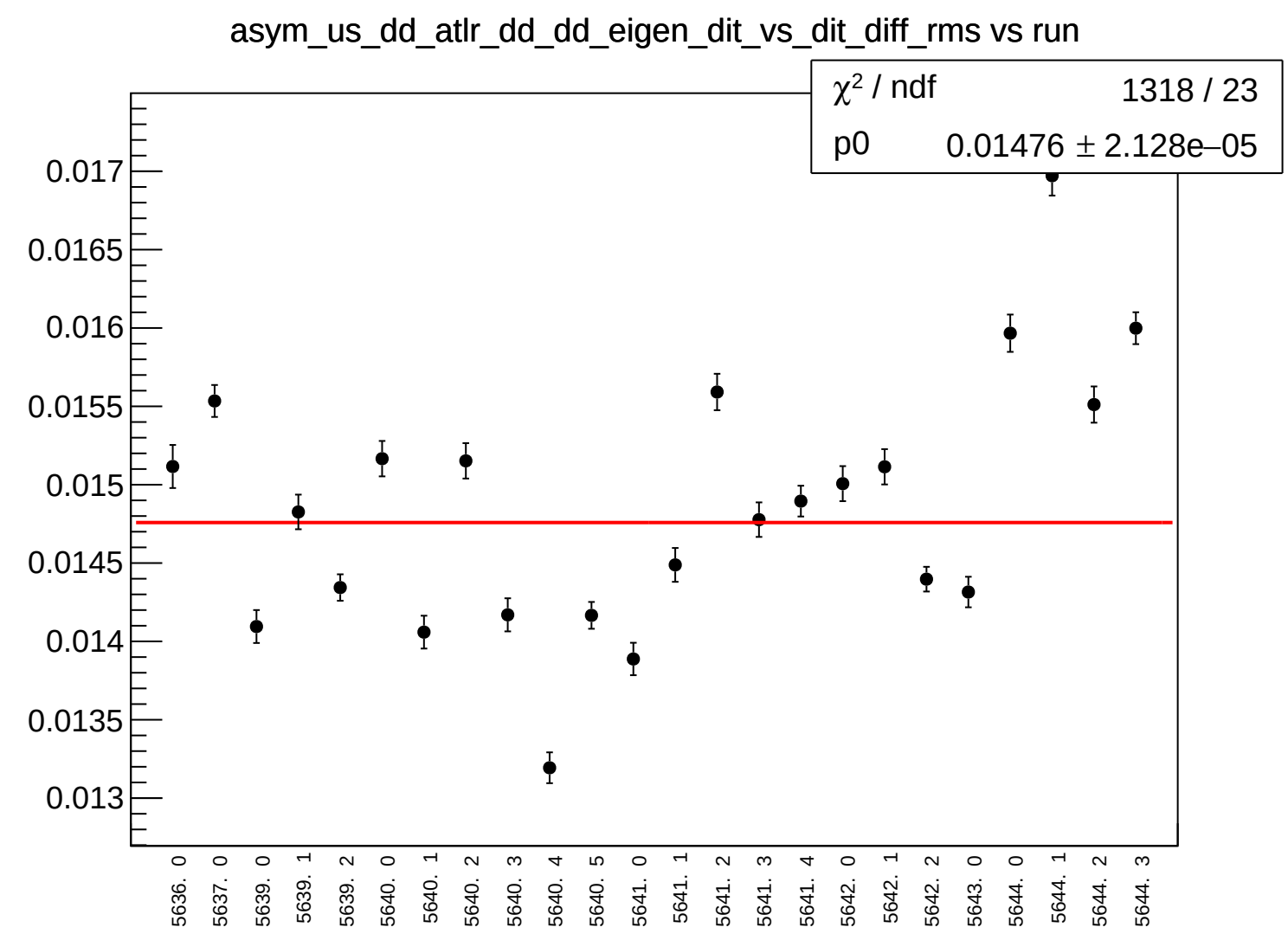
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.29 / 23
p0 0.02184 ± 0.1272
2
1
0
−1
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 70.62
Std Dev 0
pull1D
Entries 24
Mean 0.01587
Std Dev 1.006
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ2 / ndf 2.378e+04 / 23
p0 60.91 ± 0.08996
120
110
100
90
80
70
60
50
40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 18.67 / 23
p0 1.763e−05 ± 3.01e−05
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −138.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.01665
Std Dev 0.8817
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1318 / 23
p0 0.01476 ± 2.128e−05
0.017
0.0165
0.016
0.0155
0.015
0.0145
0.014
0.0135
0.013
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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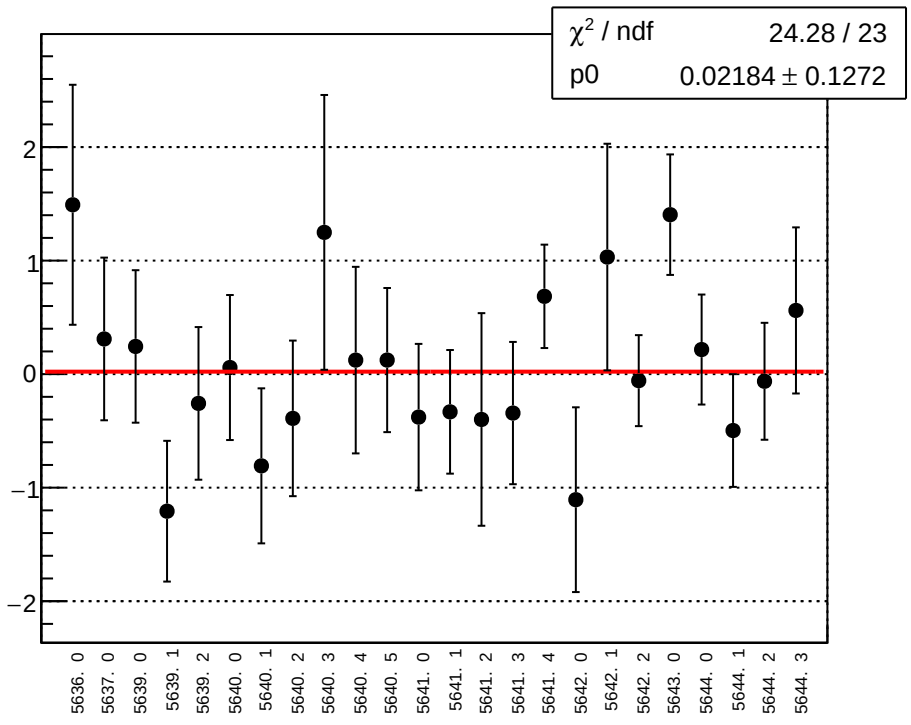
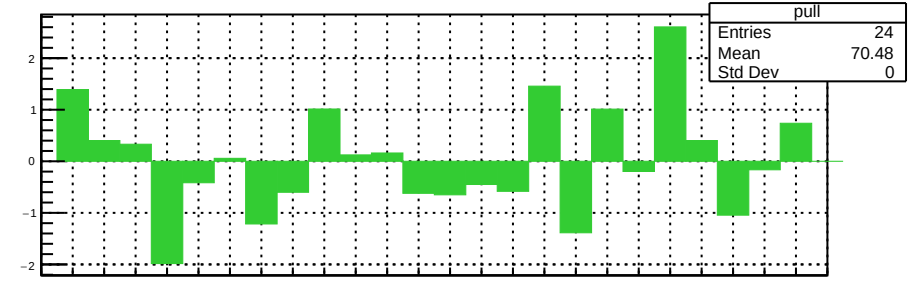
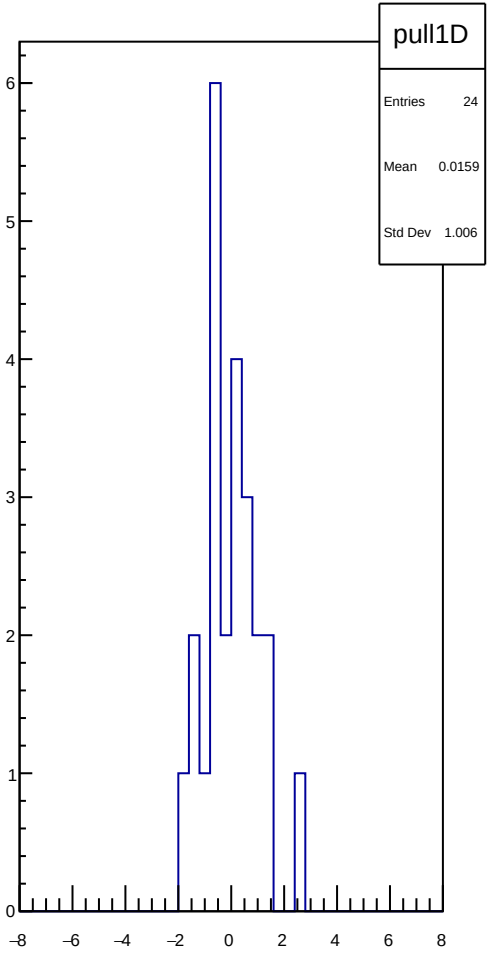
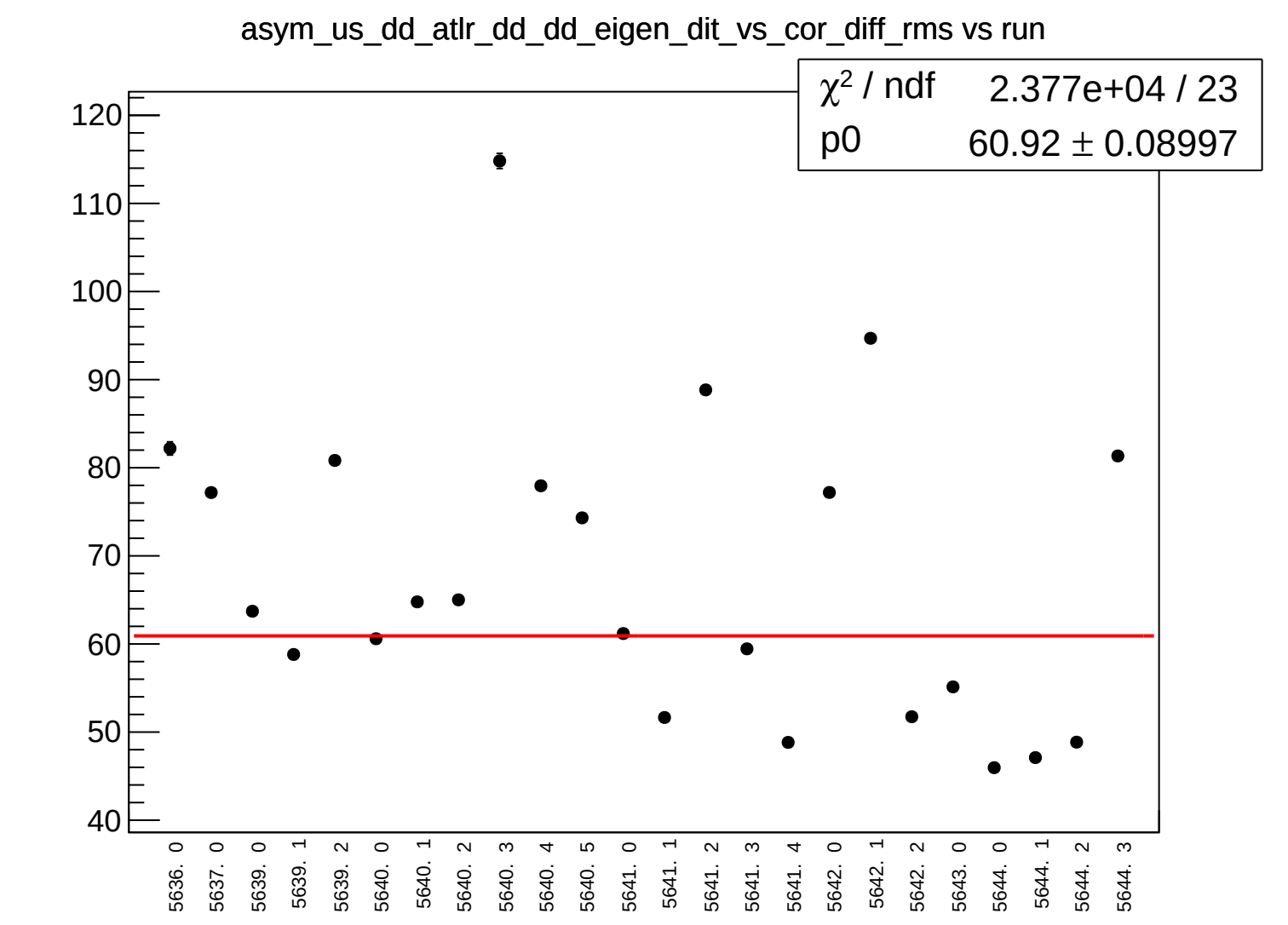
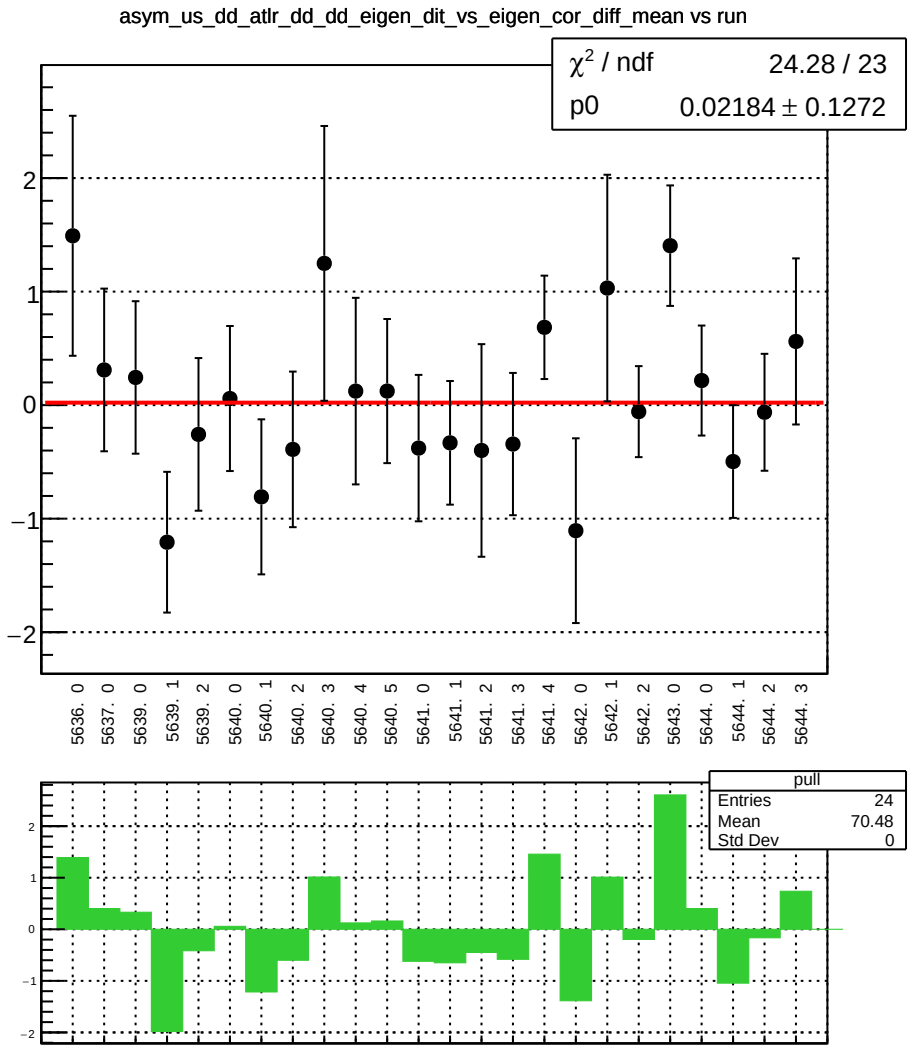
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

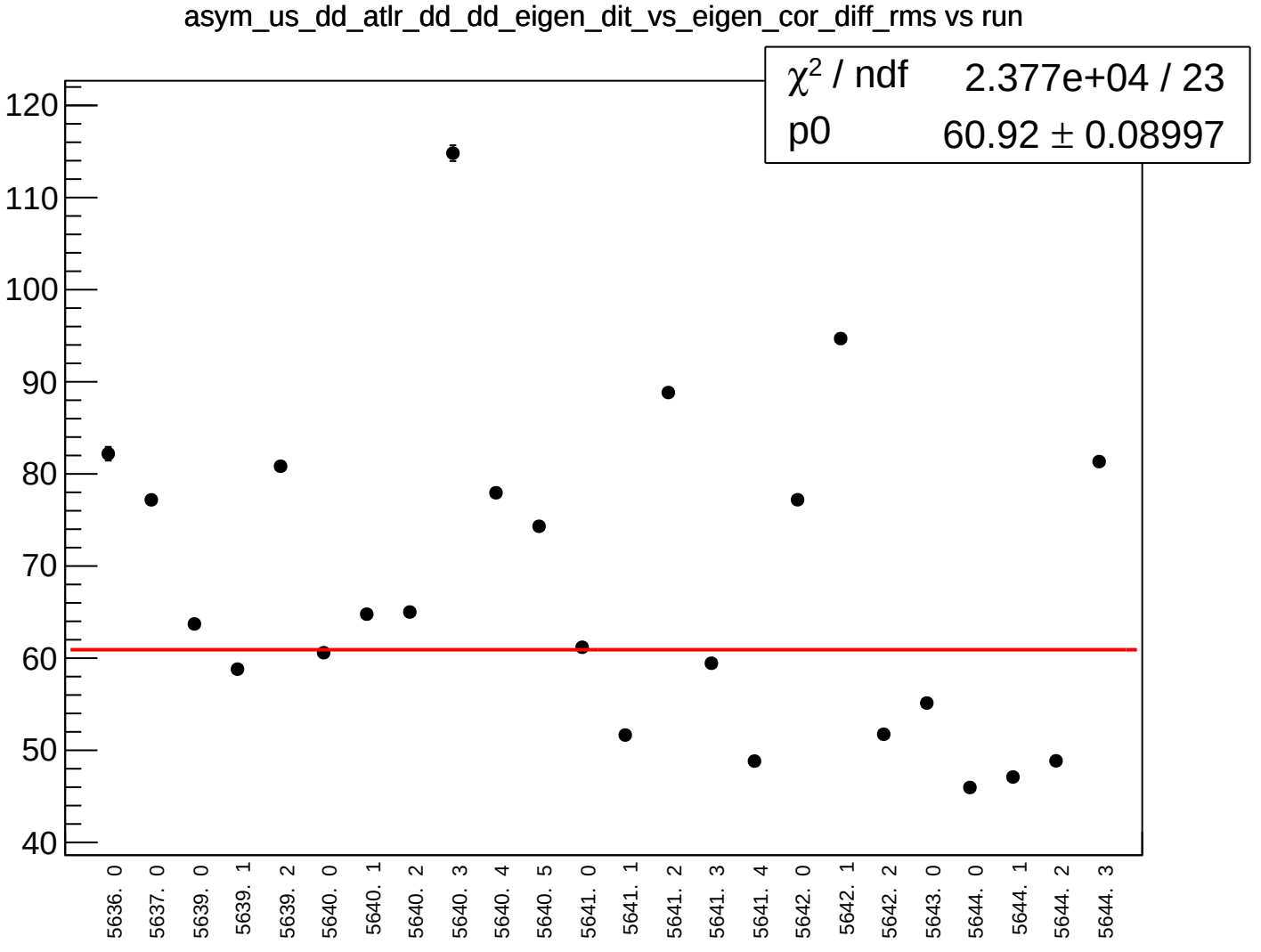

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 24.28 / 23
p0 0.02184 ± 0.1272
2
1
0
−1
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

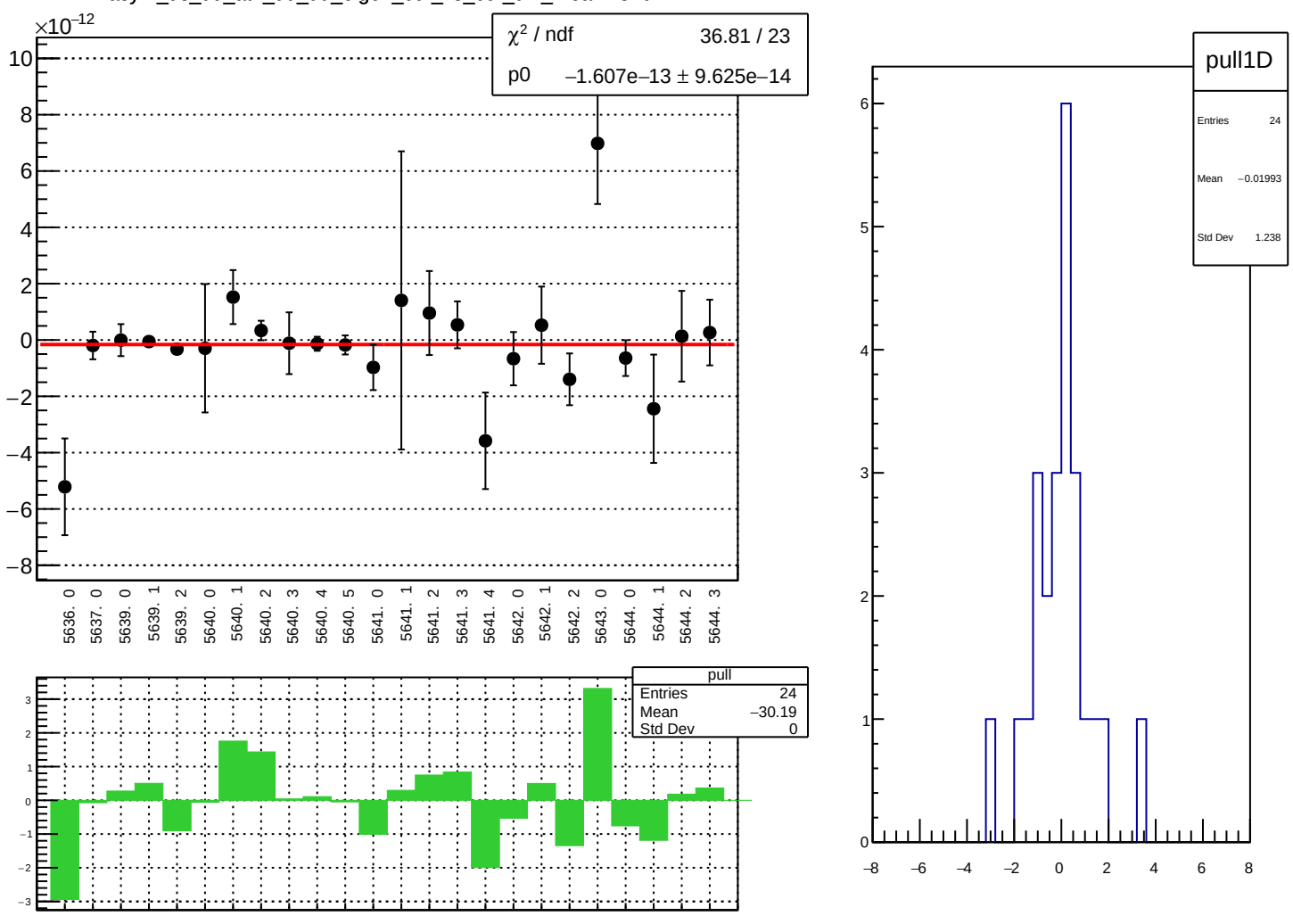

pull
Entries 24
Mean 70.48
Std Dev 0
2
1
0
−1
−2

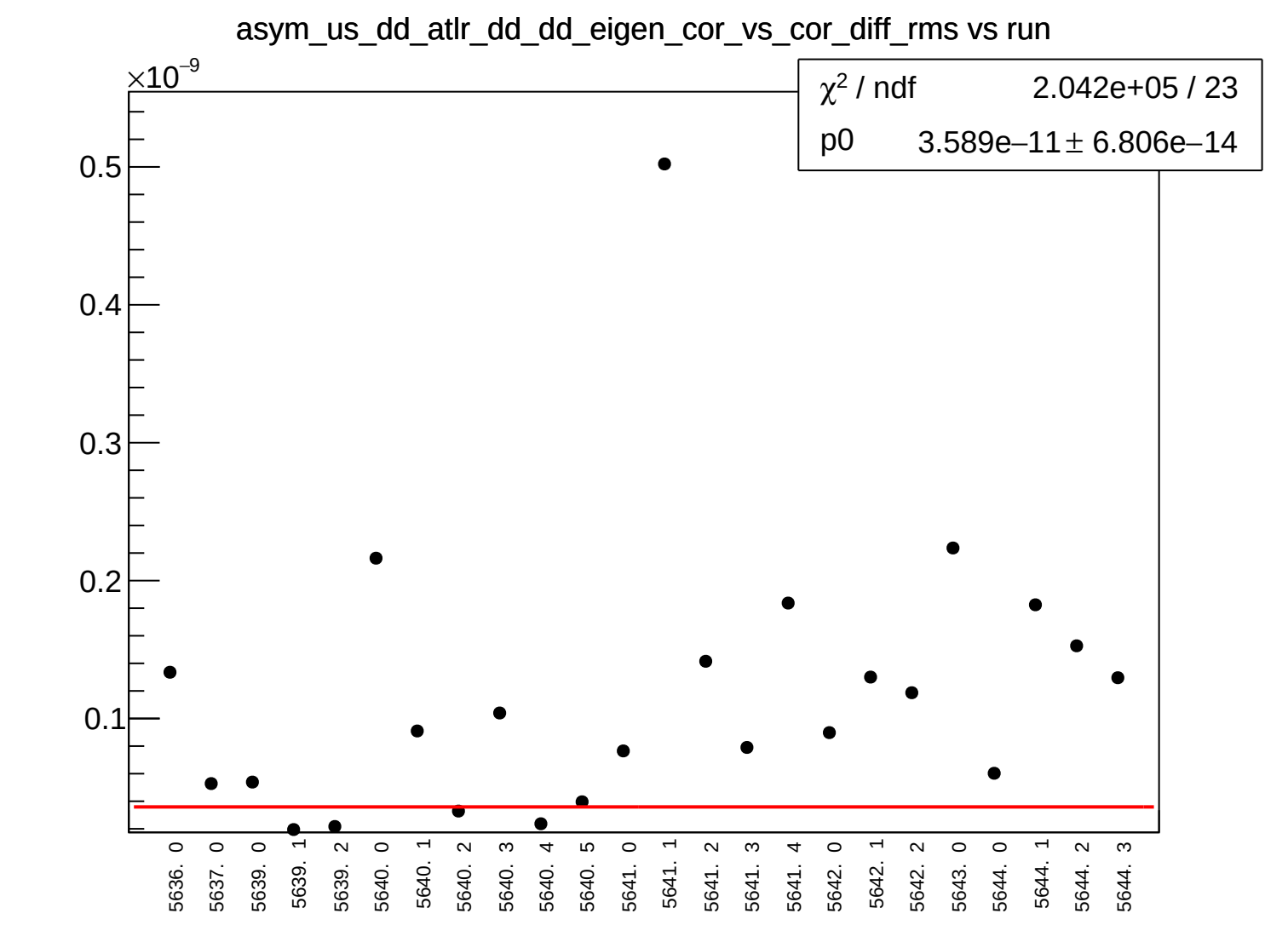

pull1D
Entries 24
Mean 0.0159
Std Dev 1.006
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

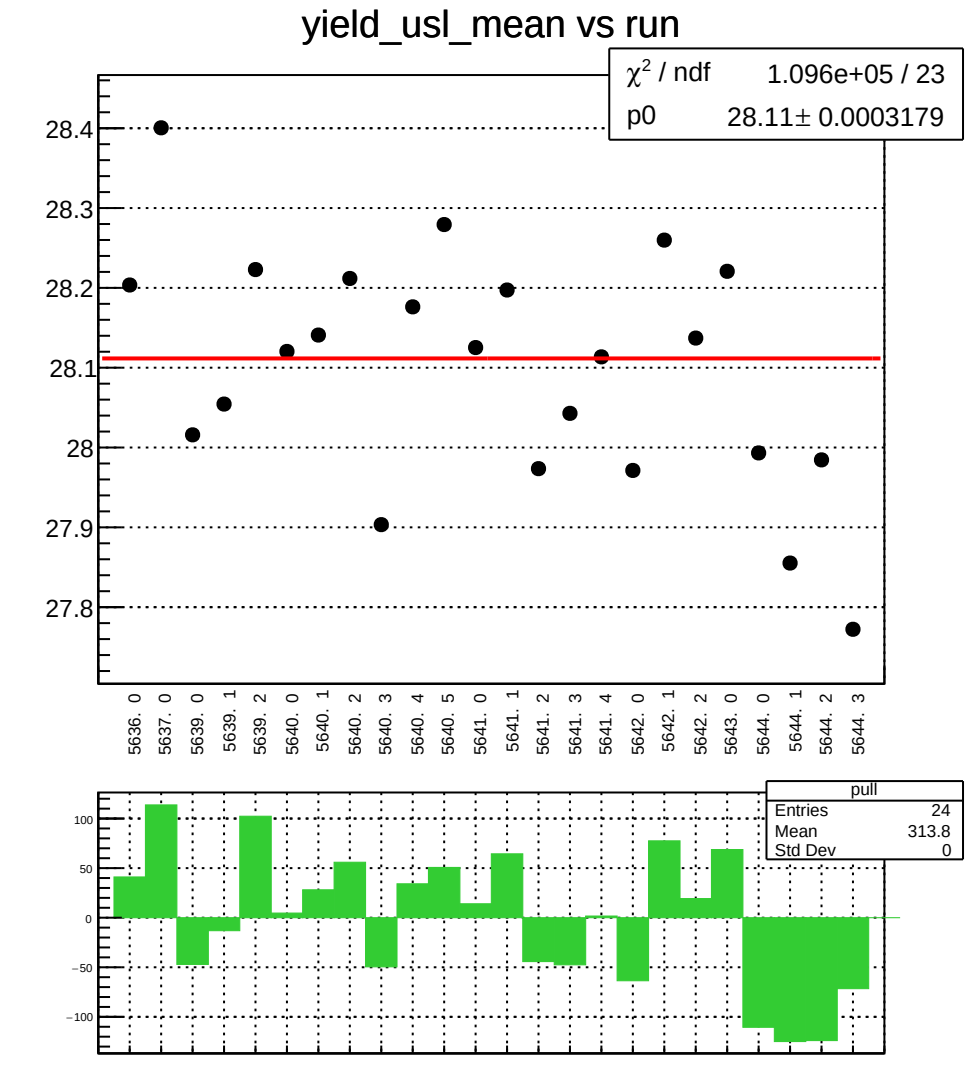

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.377e+04 / 23
p0 60.92 ± 0.08997
120
110
100
90
80
70
60
50
40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

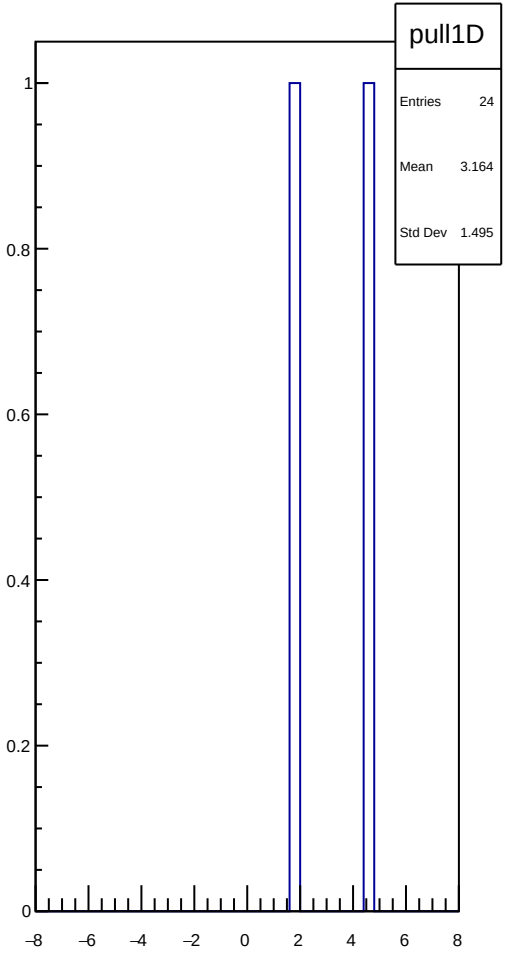

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.28 / 23
p0 0.02184 ± 0.1272
2
1
0
−1
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 70.48
Std Dev 0
pull1D
Entries 24
Mean 0.0159
Std Dev 1.006
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

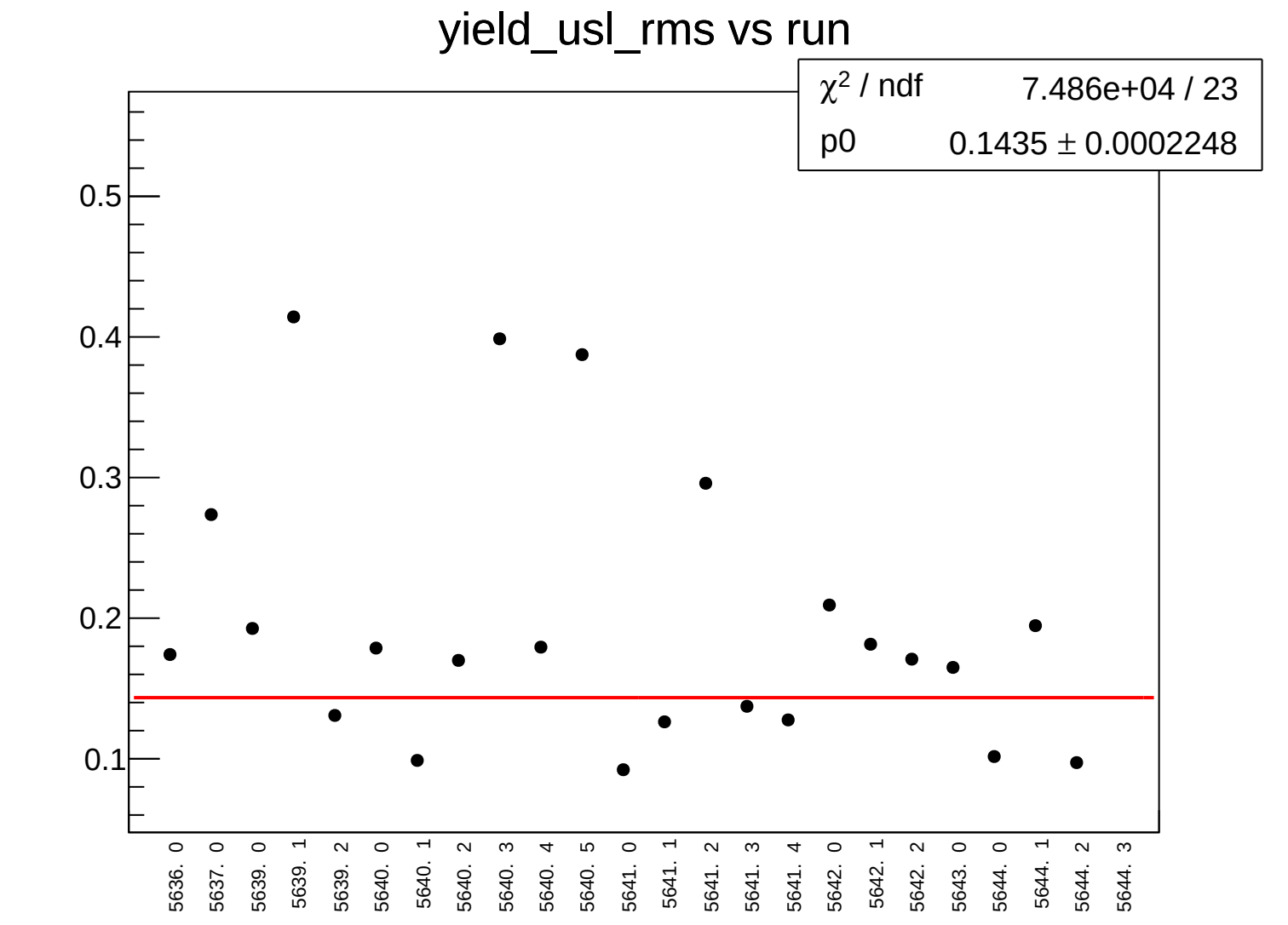

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.377e+04 / 23
p0 60.92 ± 0.08997
120
110
100
90
80
70
60
50
40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

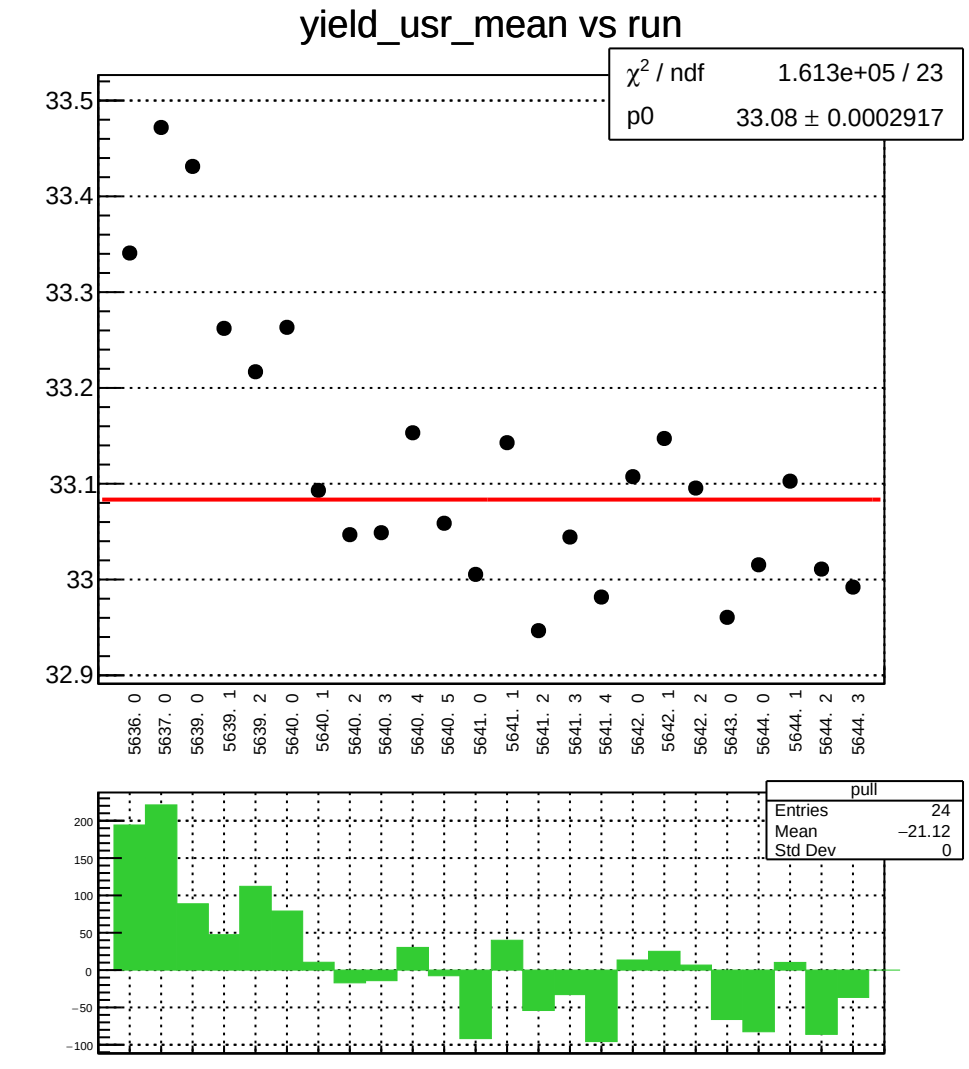

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 36.81 / 23
p0 −1.607e−13 ± 9.625e−14
10
8
6
4
2
0
−2
−4
−6
−8
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −30.19
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean −0.01993
Std Dev 1.238
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

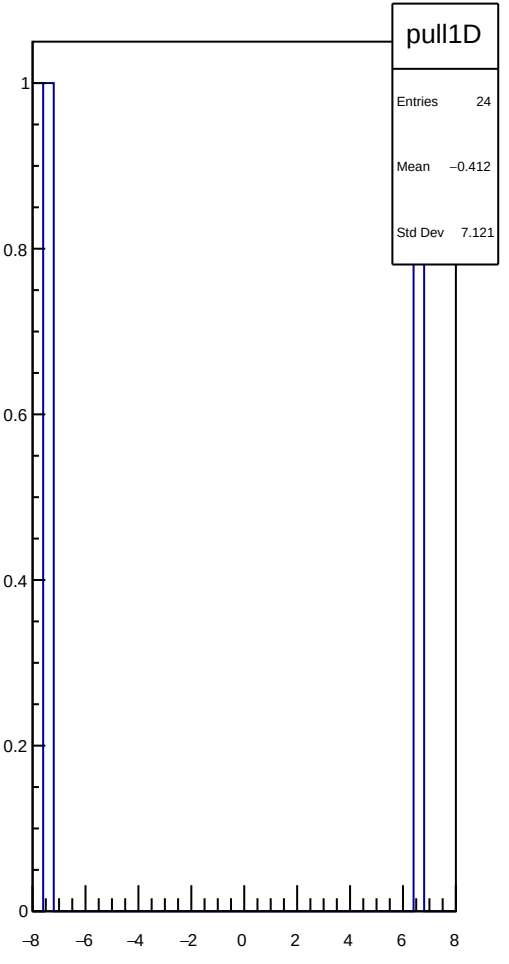

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.042e+05 / 23
p0 3.589e−11 ± 6.806e−14
0.5
0.4
0.3
0.2
0.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

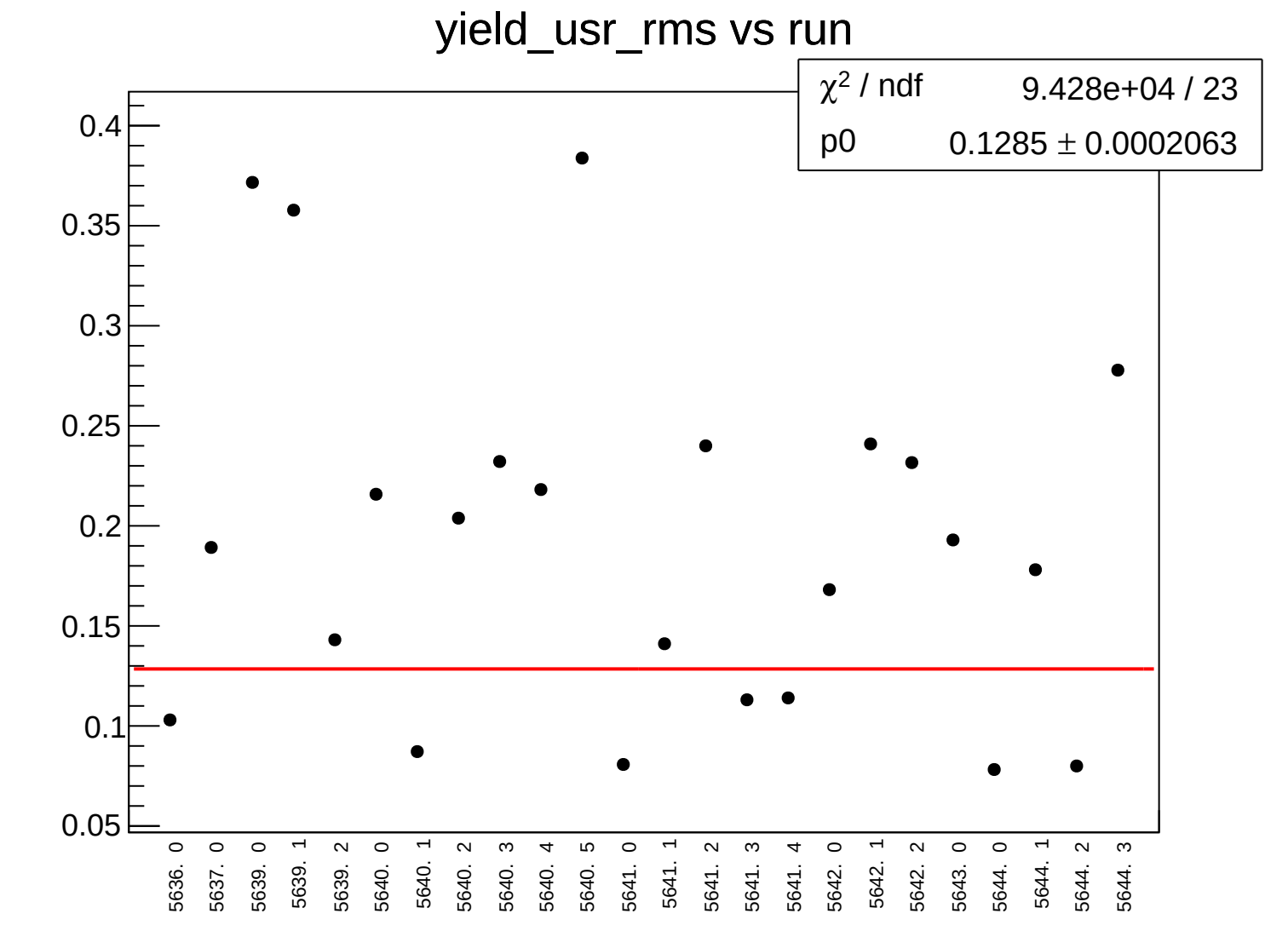

yield_usl_mean vs run
χ² / ndf 1.096e+05 / 23
p0 28.11± 0.0003179
28.4
28.3
28.2
28.1
28
27.9
27.8
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 313.8
Std Dev 0
100
50
0
−50
−100

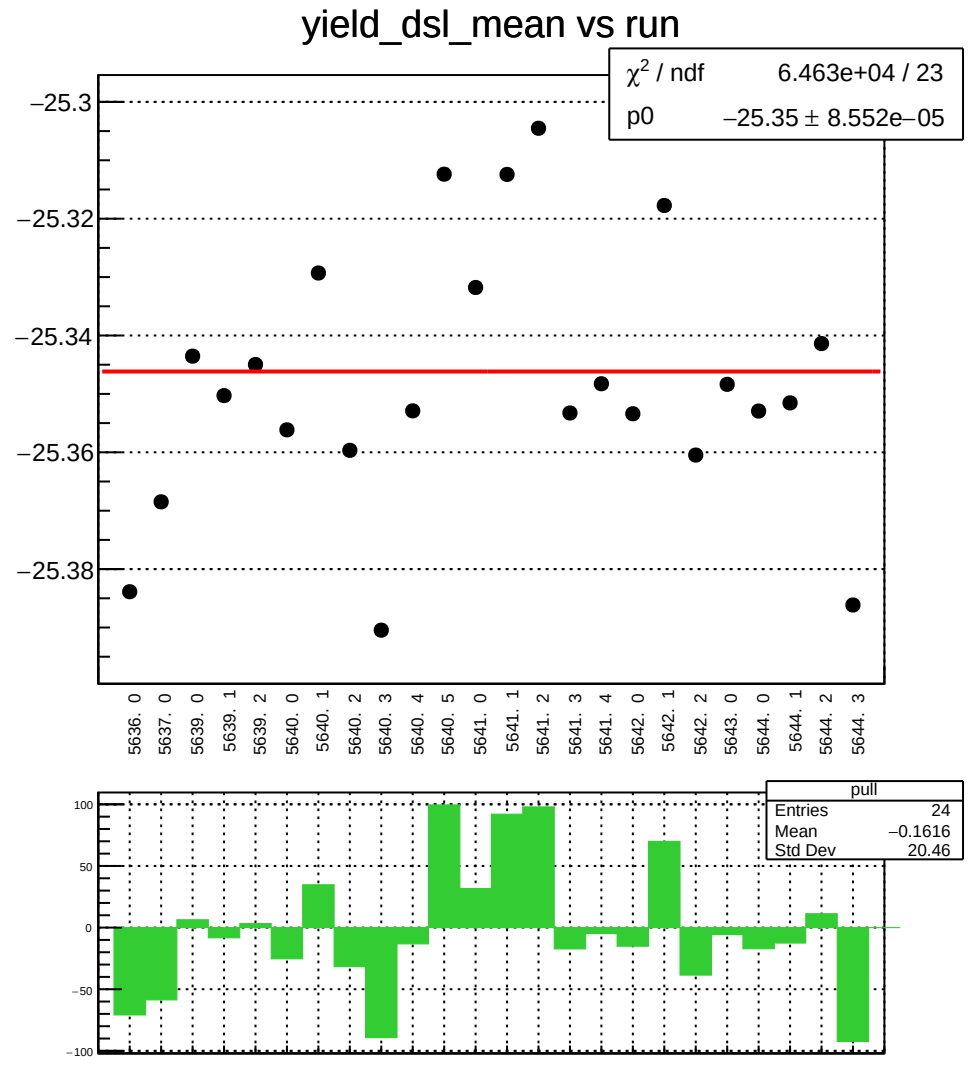

pull1D
Entries 24
Mean 3.164
Std Dev 1.495
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

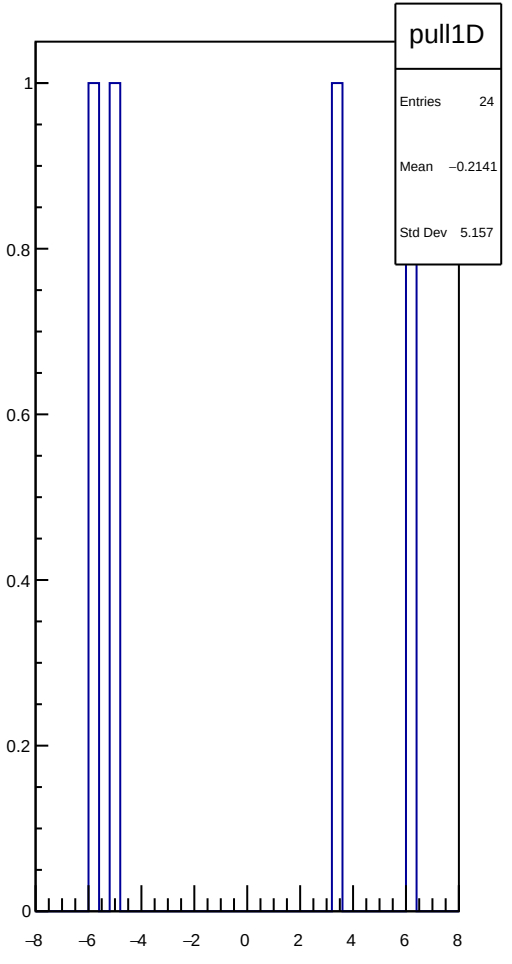

yield_usl_rms vs run
χ2 / ndf 7.486e+04 / 23
p0 0.1435 ± 0.0002248
0.5
0.4
0.3
0.2
0.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

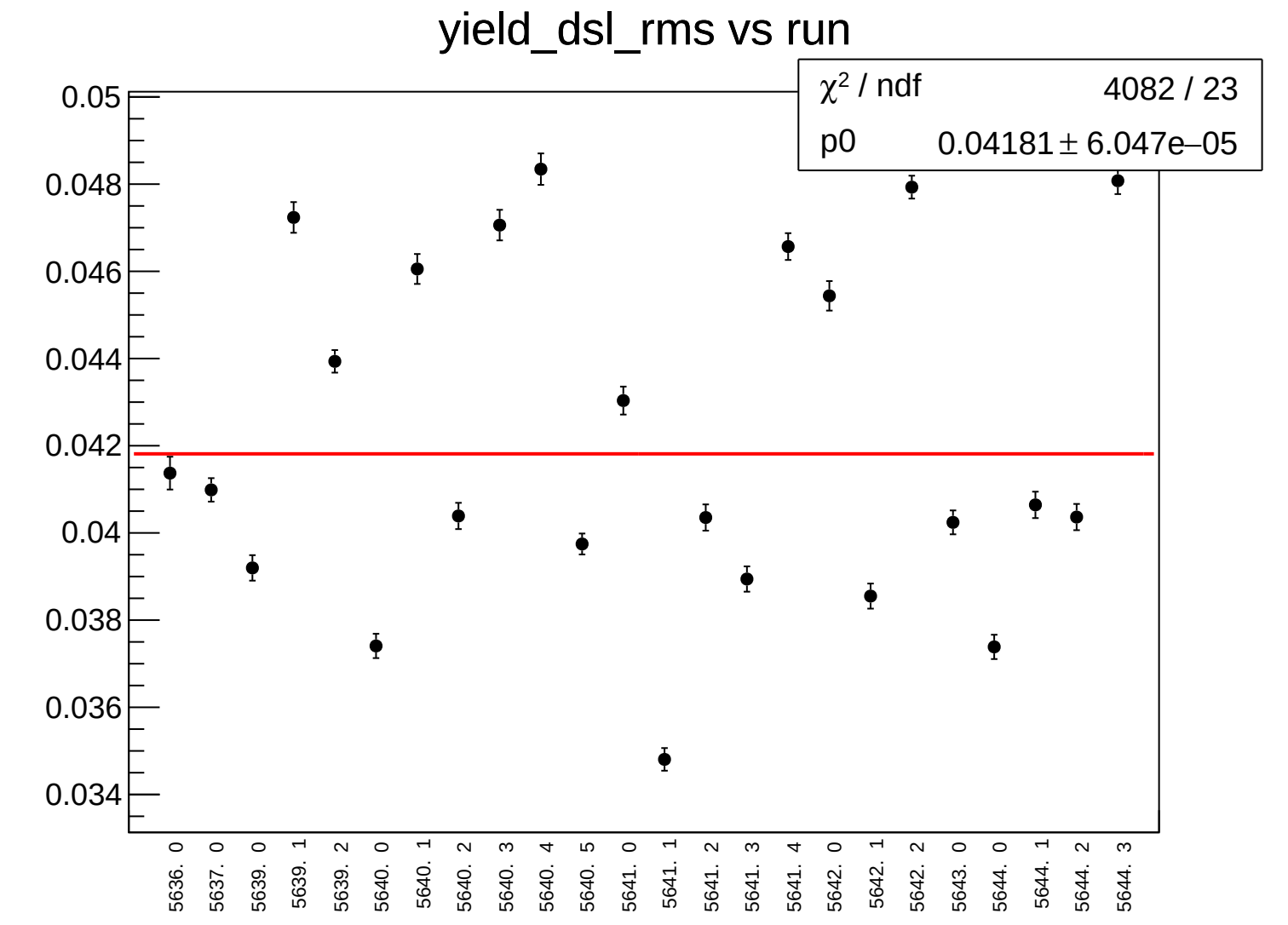

yield_usr_mean vs run
χ² / ndf 1.613e+05 / 23
p0 33.08 ± 0.0002917
33.5
33.4
33.3
33.2
33.1
33
32.9
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −21.12
Std Dev 0
200
150
100
50
0
−50
−100

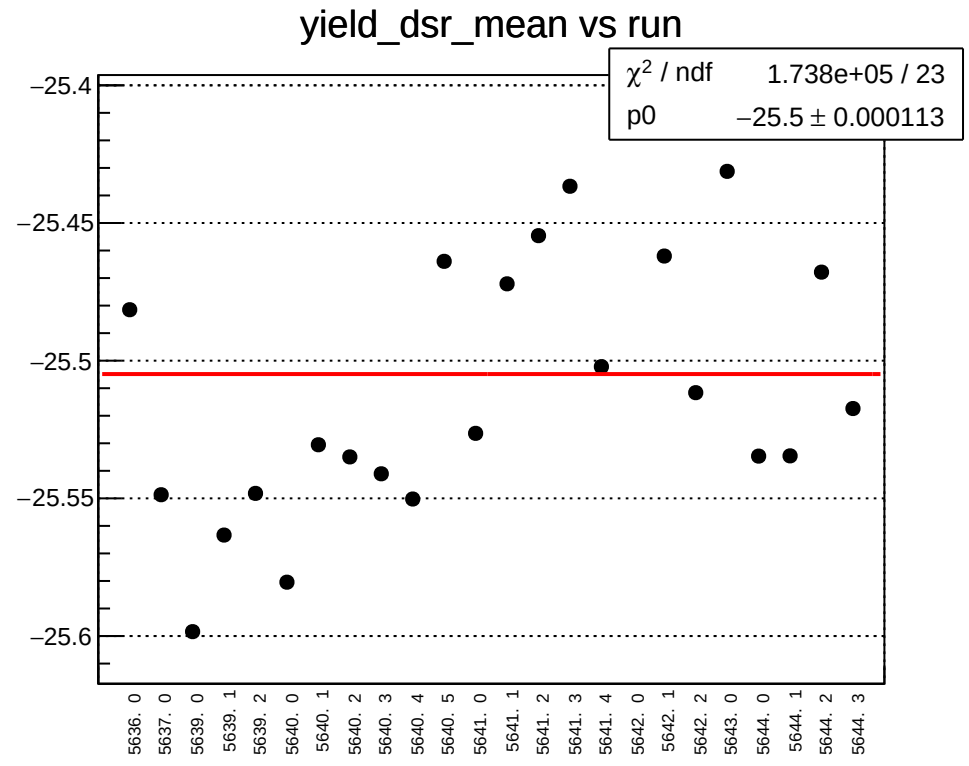

pull1D
Entries 24
Mean −0.412
Std Dev 7.121
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_usr_rms vs run
χ² / ndf 9.428e+04 / 23
p0 0.1285 ± 0.0002063
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


yield_dsl_mean vs run
χ² / ndf 6.463e+04 / 23
p0 −25.35 ± 8.552e−05
−25.3
−25.32
−25.34
−25.36
−25.38
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −0.1616
Std Dev 20.46
100
50
0
−50
−100


pull1D
Entries 24
Mean −0.2141
Std Dev 5.157
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_dsl_rms vs run
χ² / ndf 4082 / 23
p0 0.04181 ± 6.047e–05
0.05
0.048
0.046
0.044
0.042
0.04
0.038
0.036
0.034
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


yield_dsr_mean vs run
χ² / ndf 1.738e+05 / 23
p0 −25.5 ± 0.000113
−25.4
−25.45
−25.5
−25.55
−25.6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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5642. 0
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5643. 0
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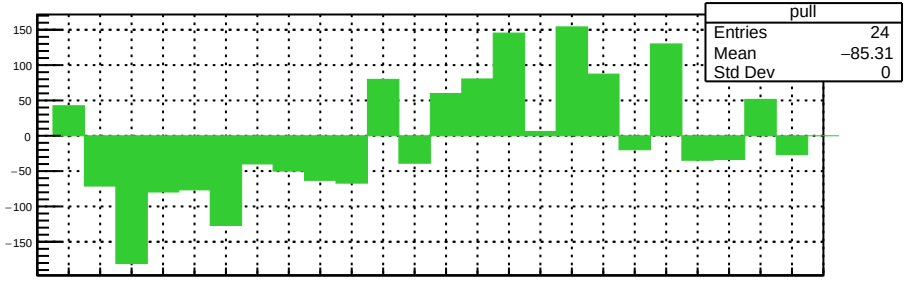
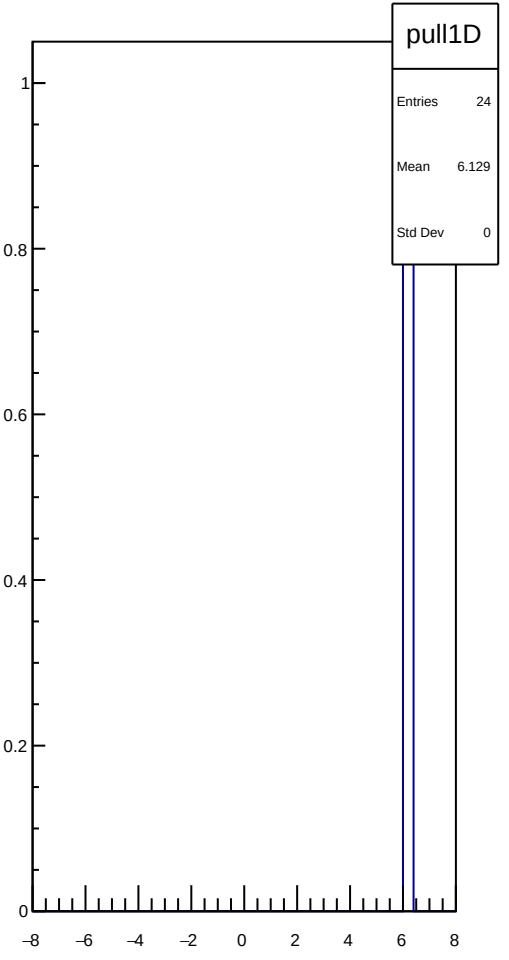
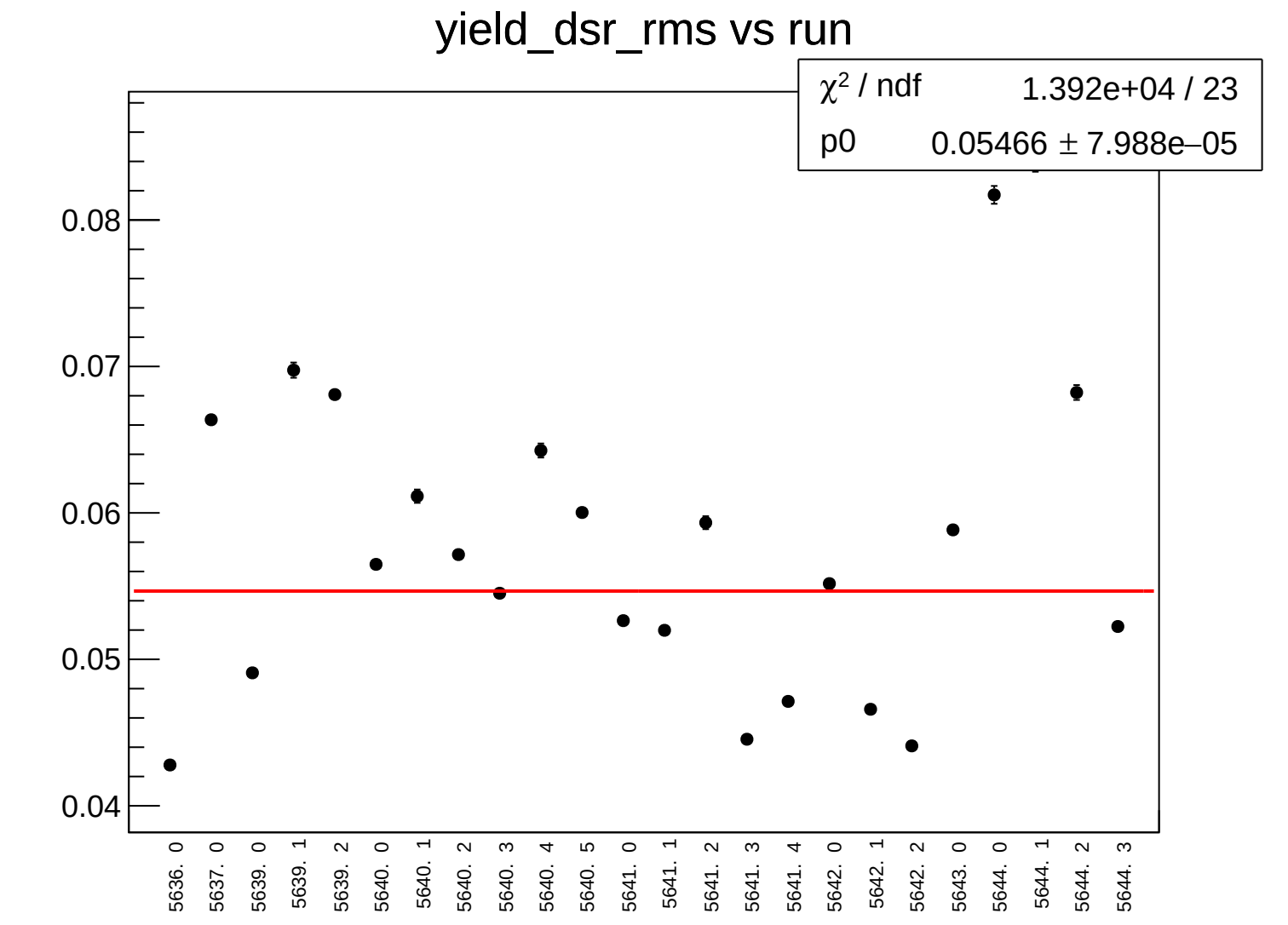
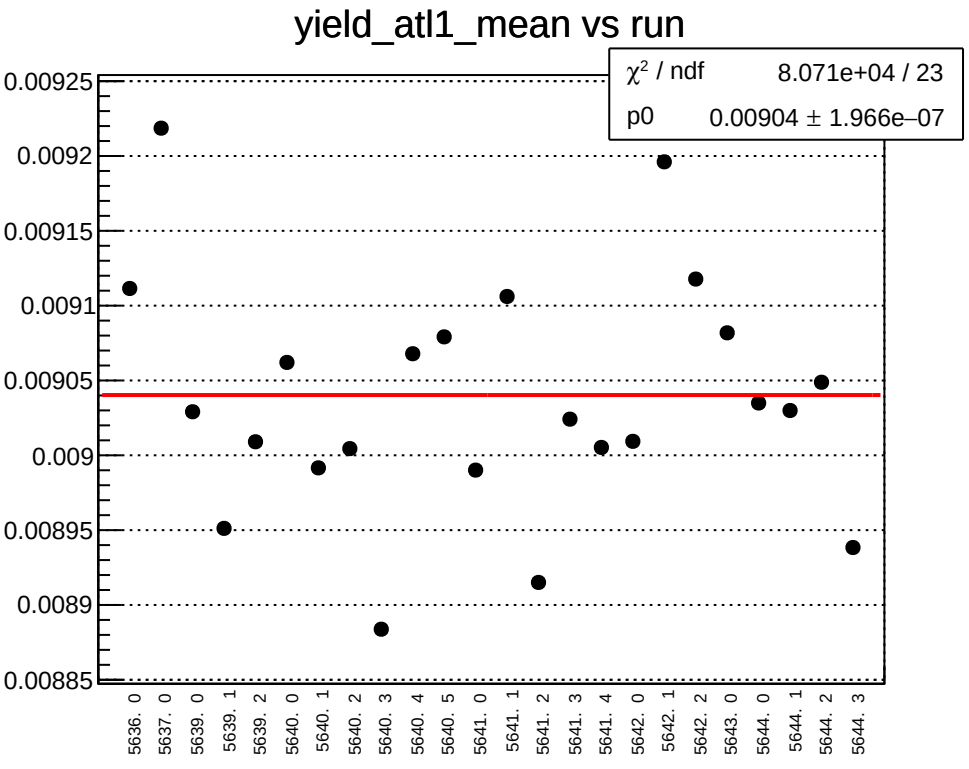
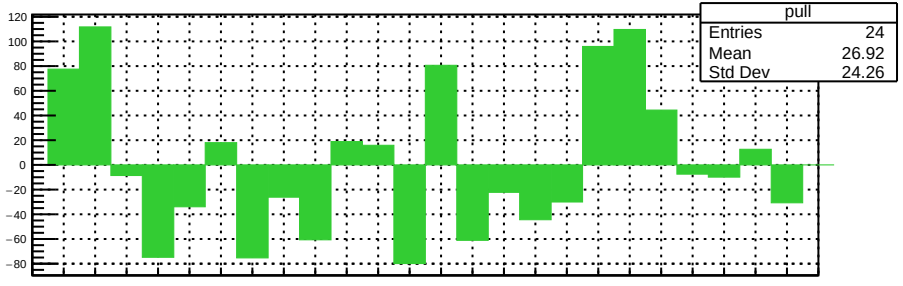
5644. 2
5644. 3

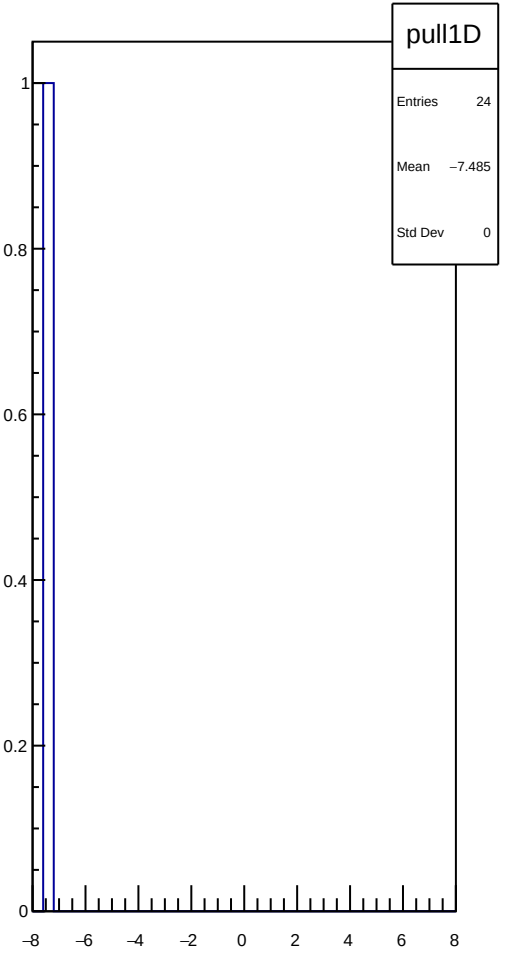

pull
Entries 24
Mean −85.31
Std Dev 0
150
100
50
0
−50
−100
−150

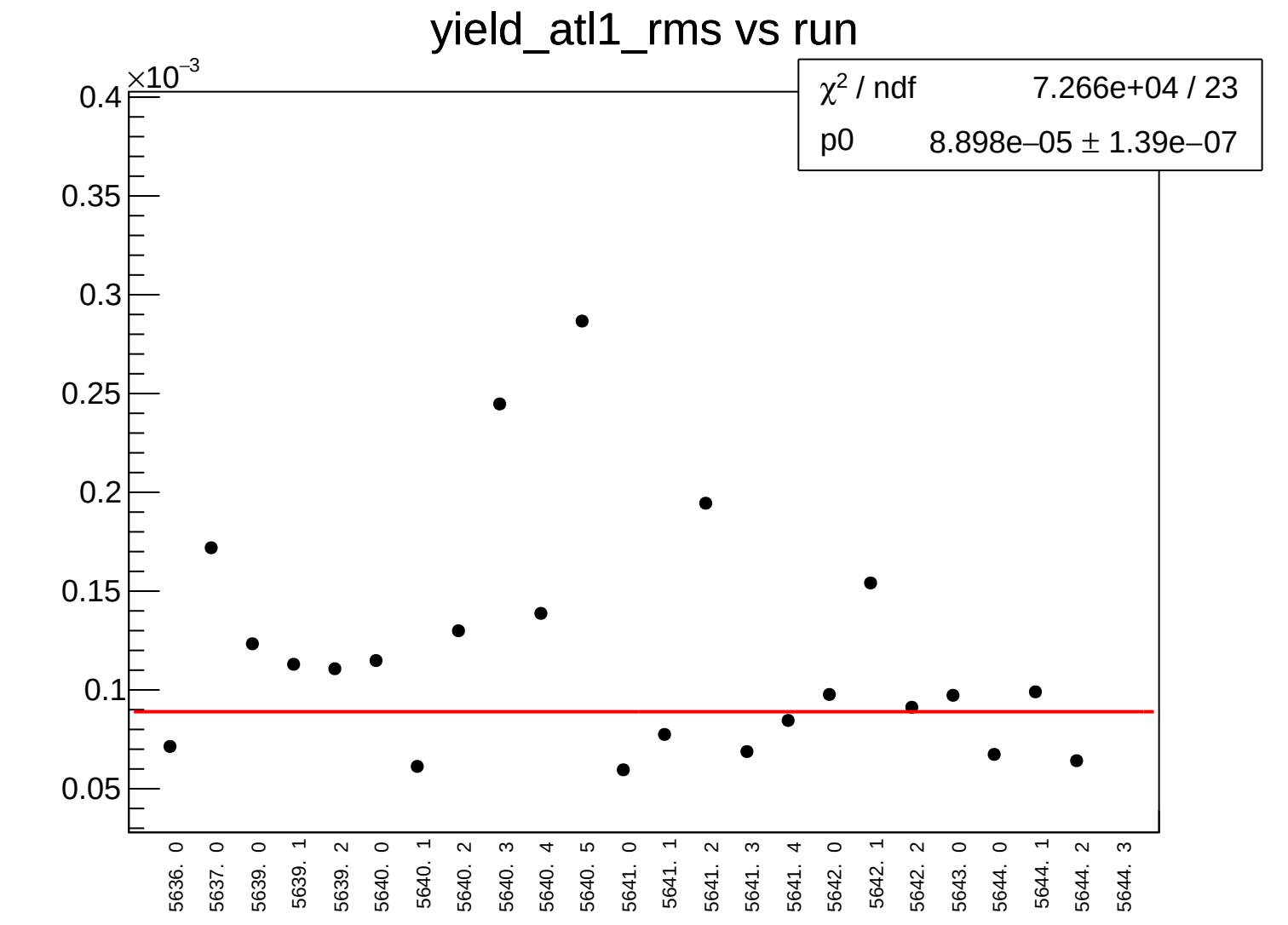

pull1D
Entries 24
Mean 6.129
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

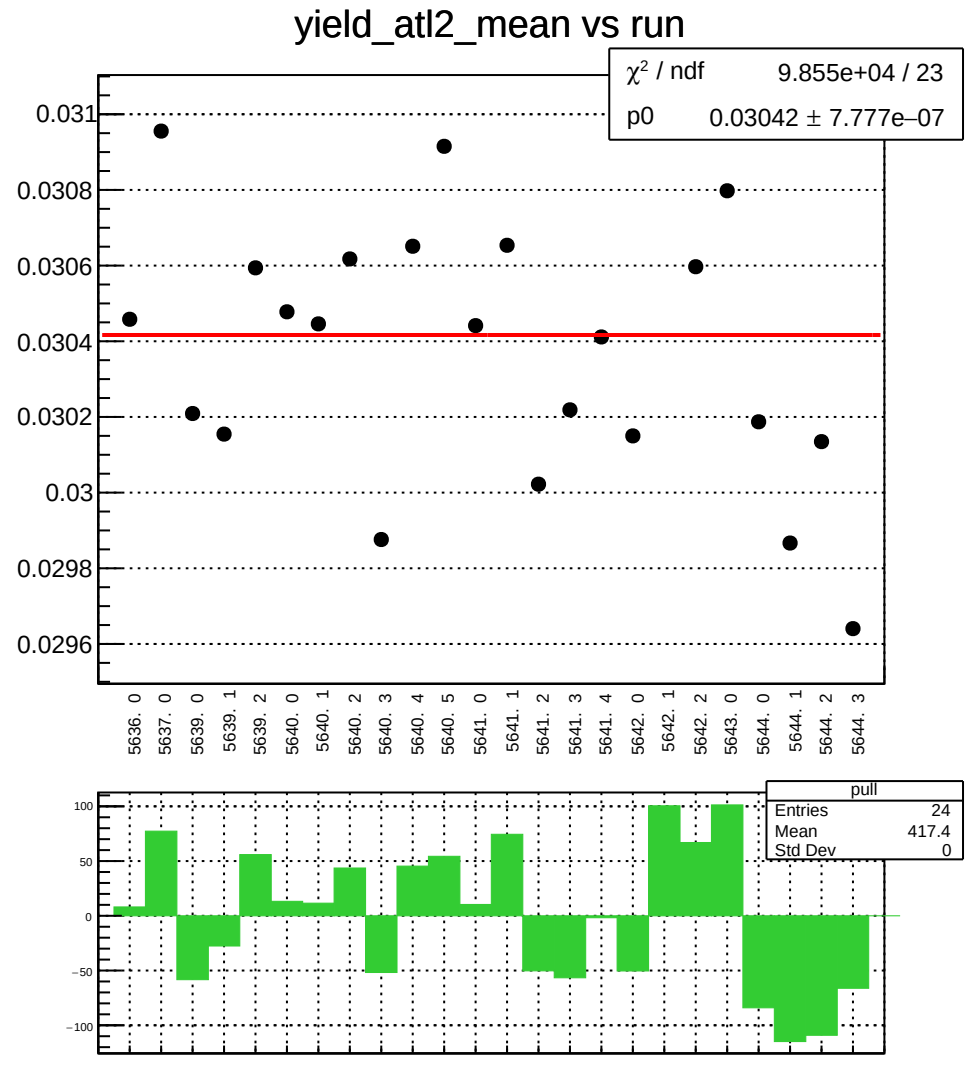

yield_dsr_rms vs run
χ² / ndf 1.392e+04 / 23
p0 0.05466 ± 7.988e–05
0.08
0.07
0.06
0.05
0.04
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

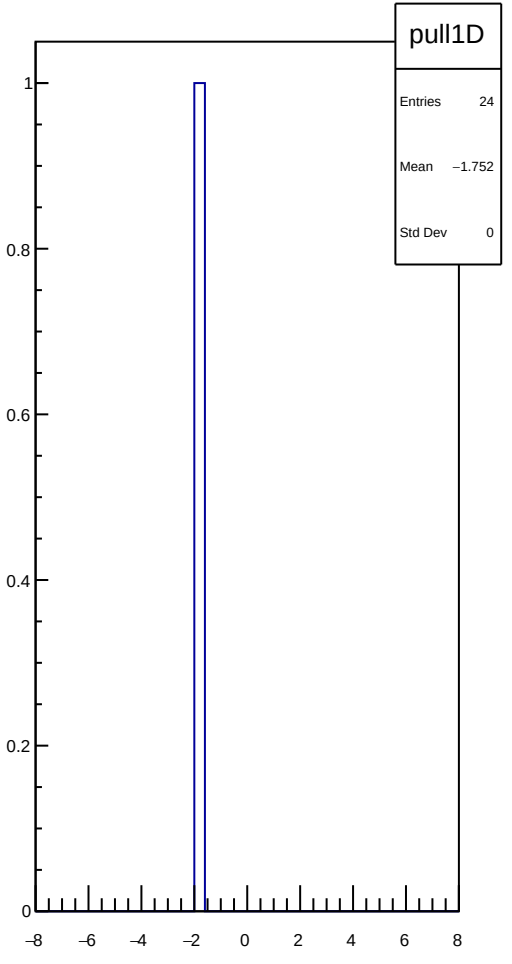

yield_atl1_mean vs run
χ² / ndf 8.071e+04 / 23
p0 0.00904 ± 1.966e−07
0.00925
0.0092
0.00915
0.0091
0.00905
0.009
0.00895
0.0089
0.00885
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

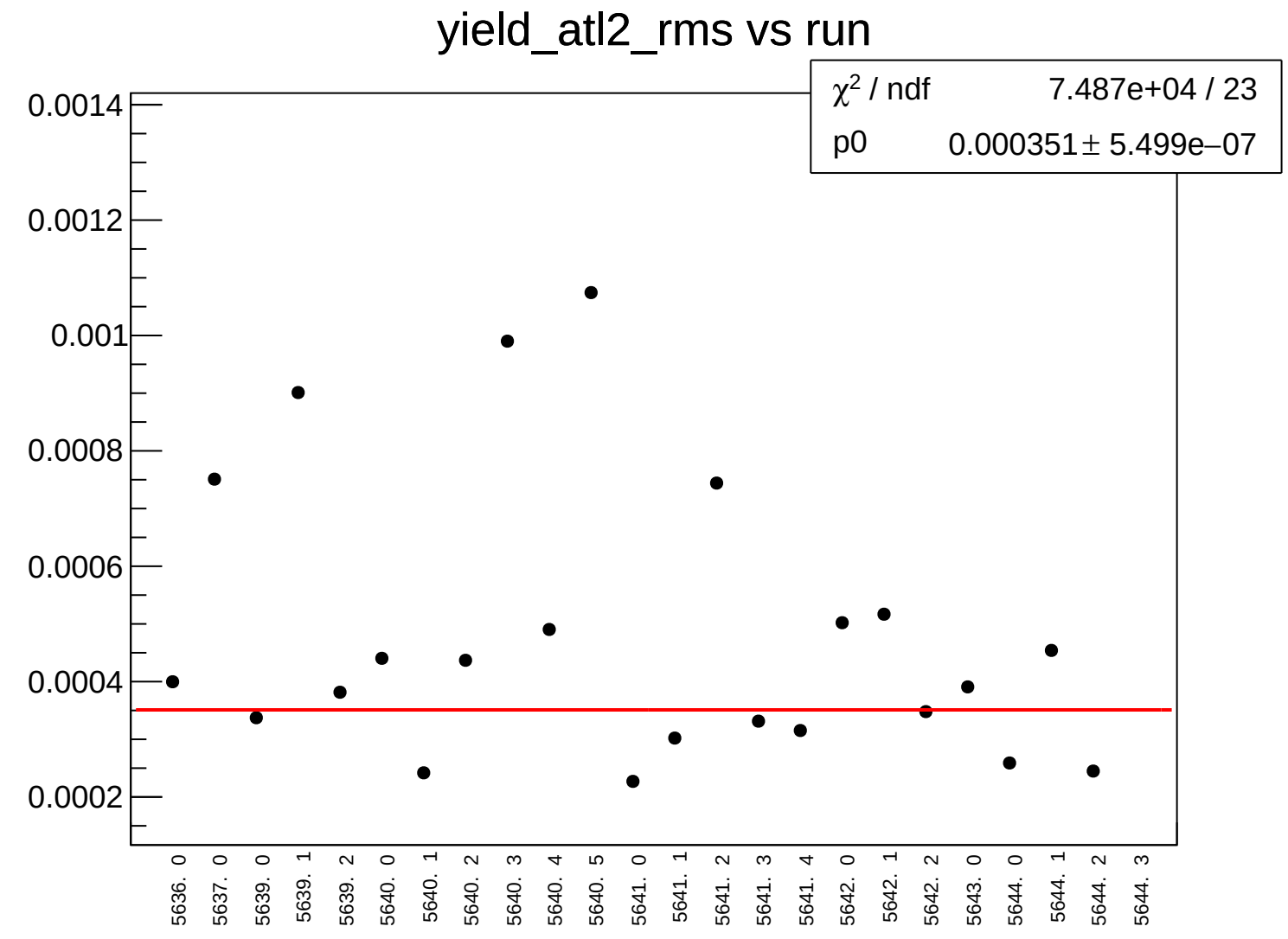

pull
Entries 24
Mean 26.92
Std Dev 24.26
120
100
80
60
40
20
0
−20
−40
−60
−80

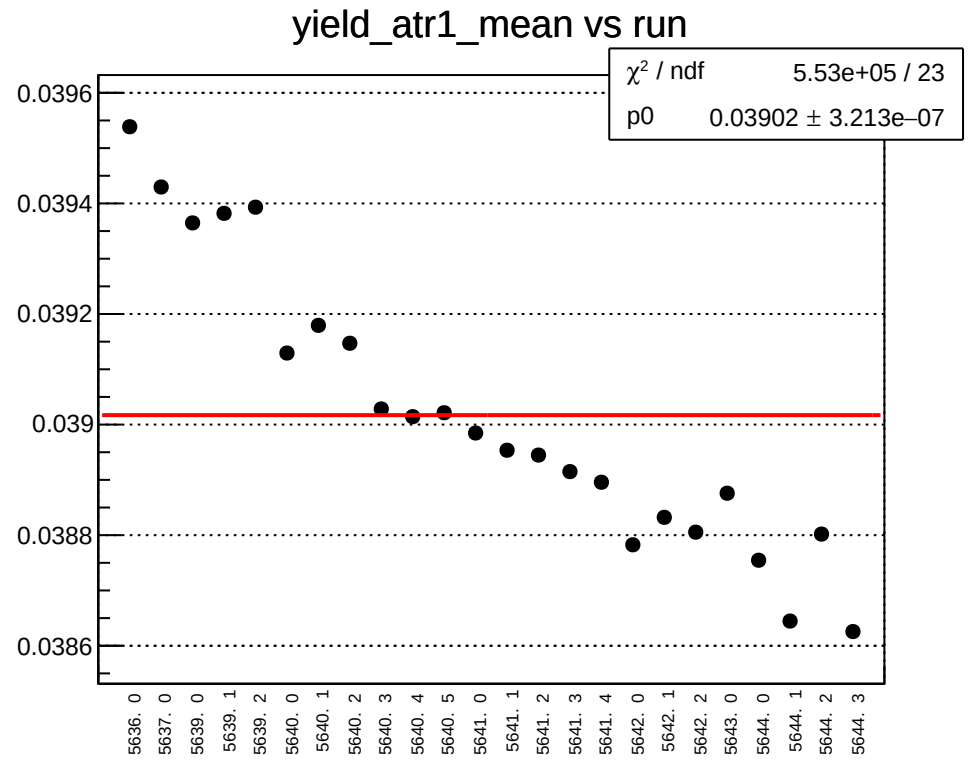

pull1D
Entries 24
Mean −7.485
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

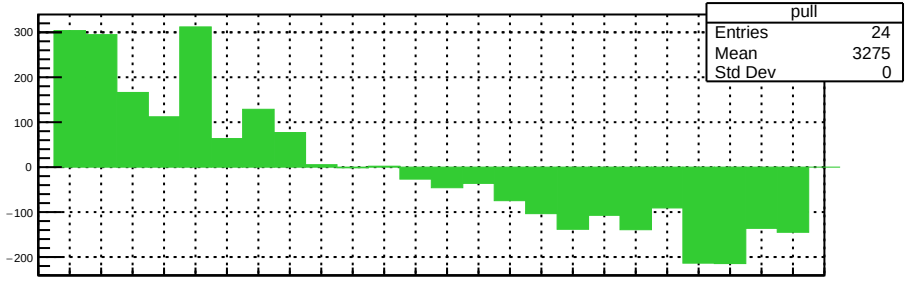

yield_atl1_rms vs run
×10⁻³
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 7.266e+04 / 23
p0 8.898e−05 ± 1.39e−07
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

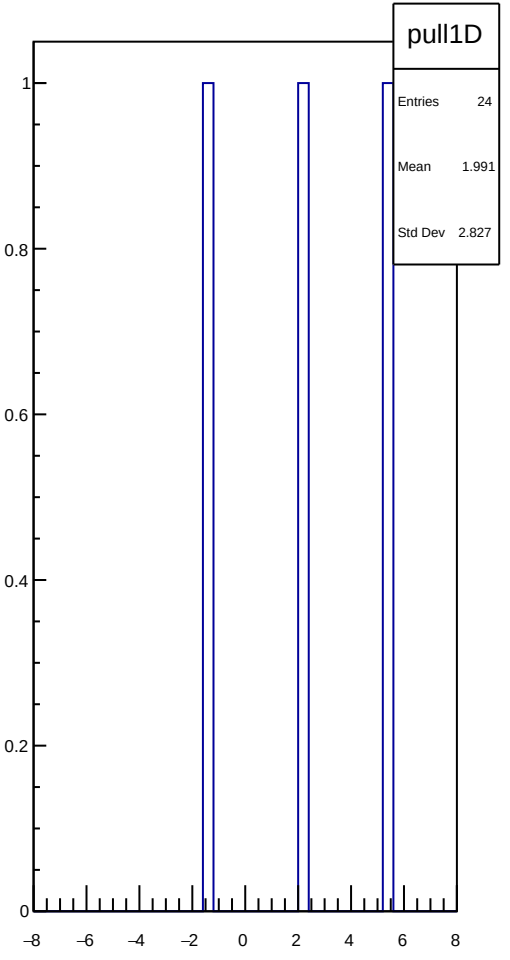

yield_atl2_mean vs run
χ² / ndf 9.855e+04 / 23
p0 0.03042 ± 7.777e−07
0.031
0.0308
0.0306
0.0304
0.0302
0.03
0.0298
0.0296
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 417.4
Std Dev 0
100
50
0
−50
−100

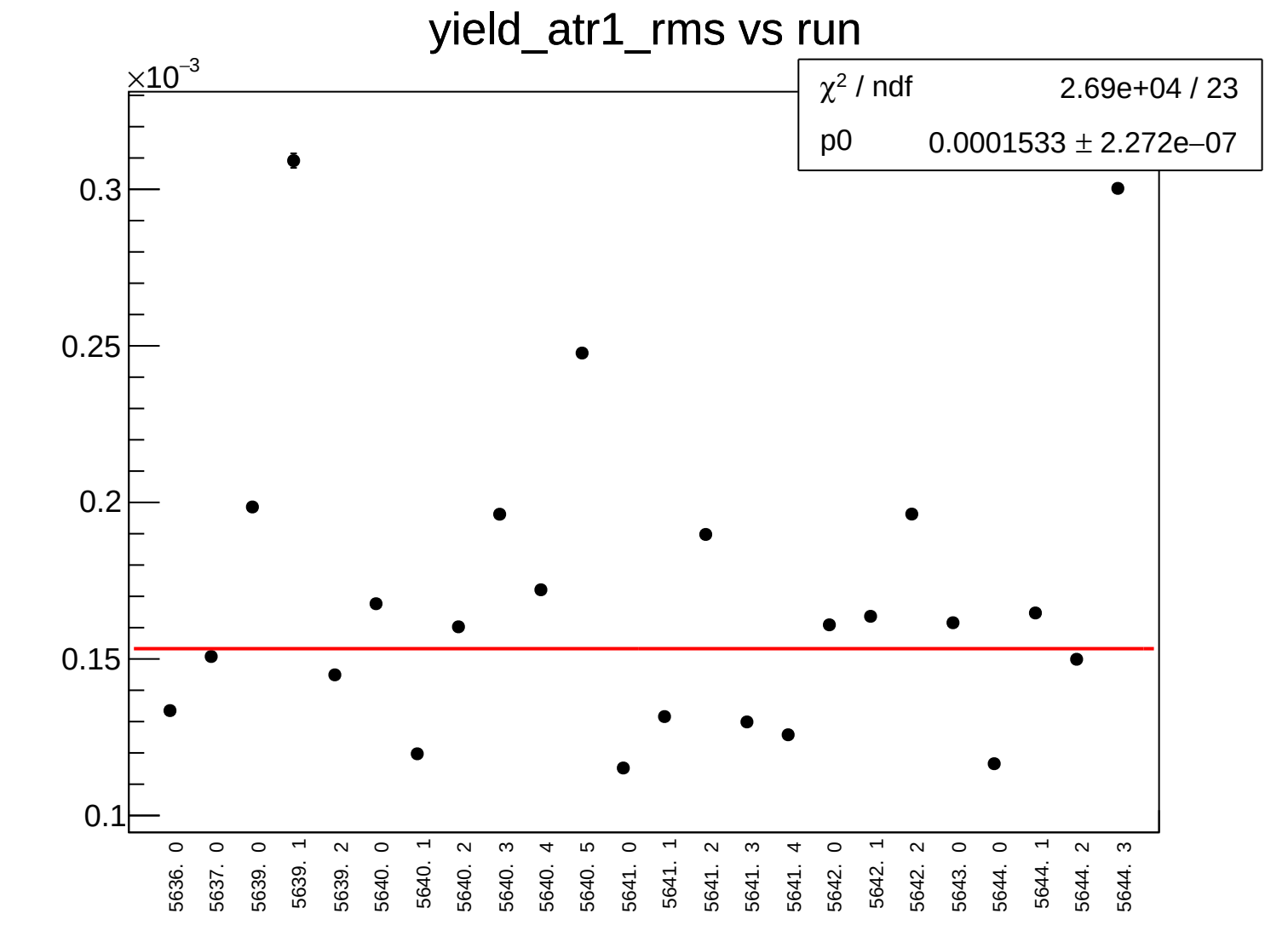

pull1D
Entries 24
Mean −1.752
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

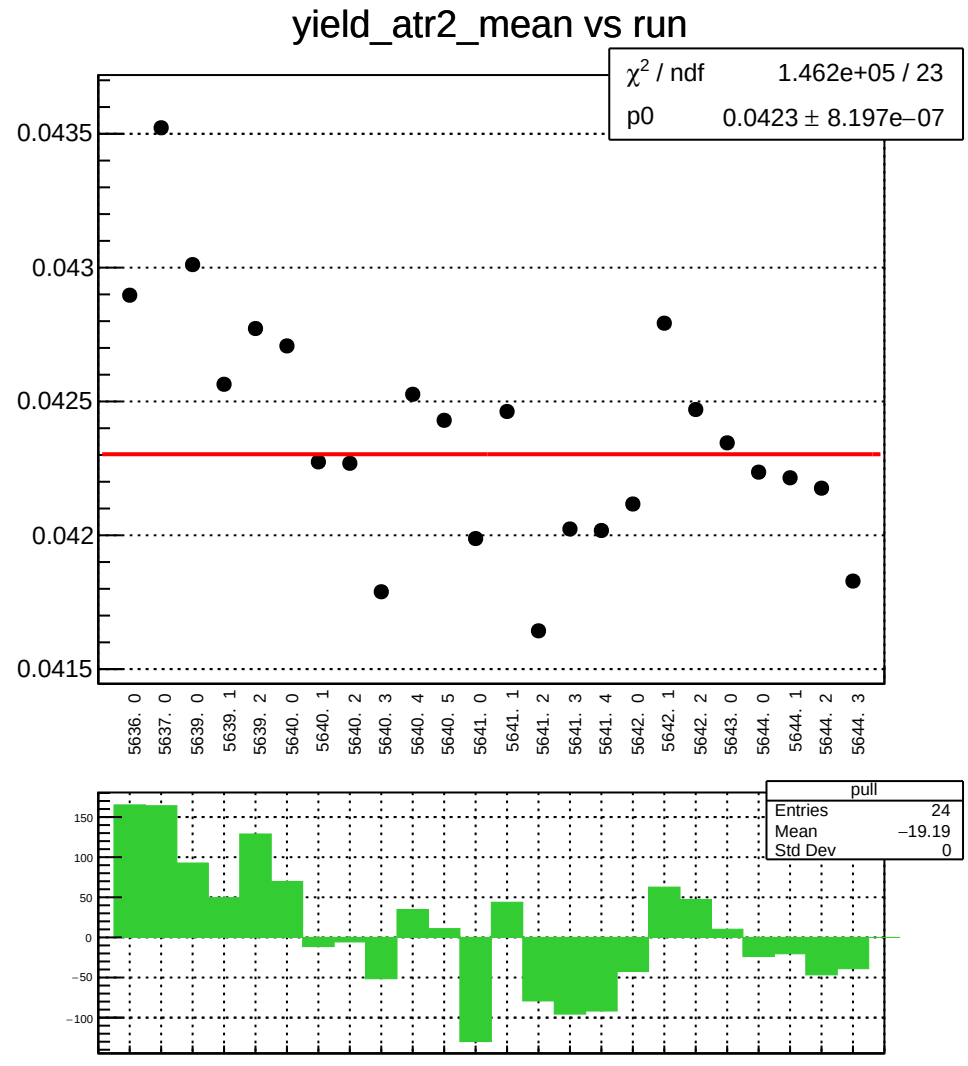

yield_atl2_rms vs run
χ² / ndf 7.487e+04 / 23
p0 0.000351 ± 5.499e−07
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

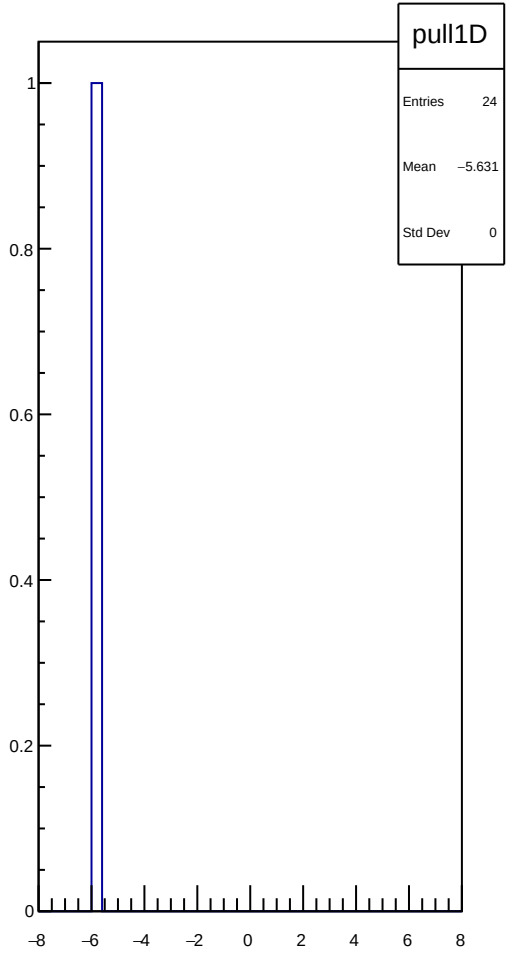

yield_atr1_mean vs run
χ² / ndf 5.53e+05 / 23
p0 0.03902 ± 3.213e−07
0.0396
0.0394
0.0392
0.039
0.0388
0.0386
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

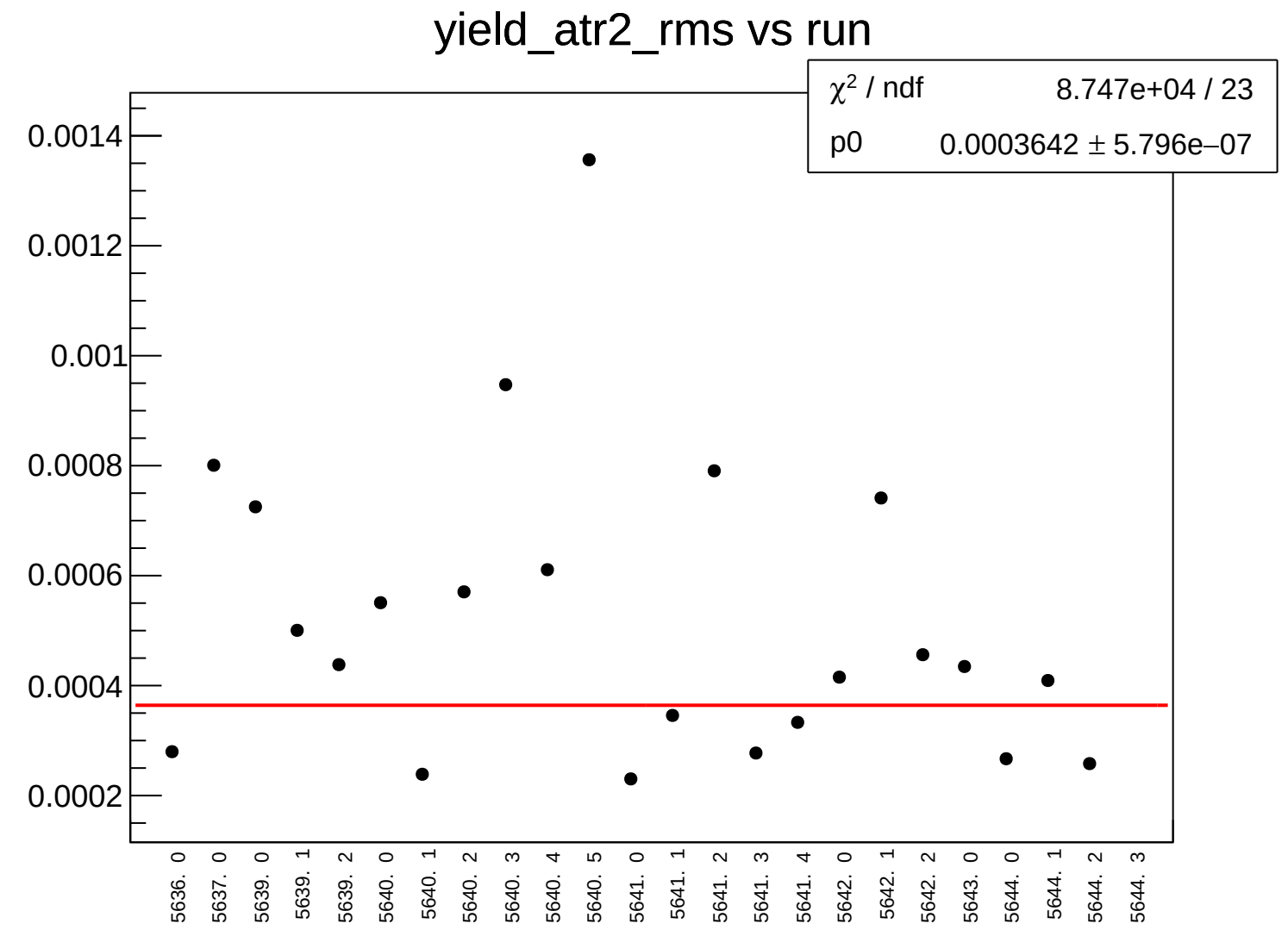

pull
Entries 24
Mean 3275
Std Dev 0
300
200
100
0
−100
−200

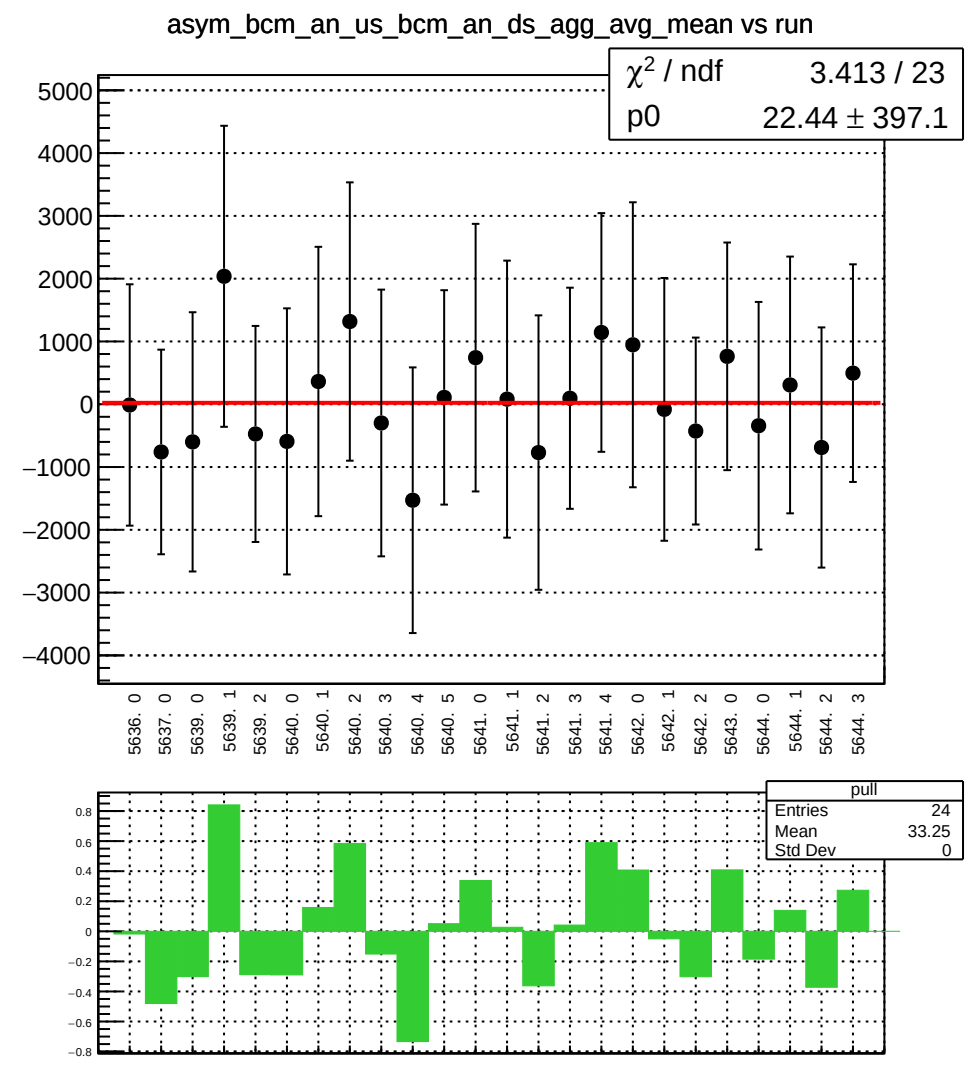

pull1D
Entries 24
Mean 1.991
Std Dev 2.827
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

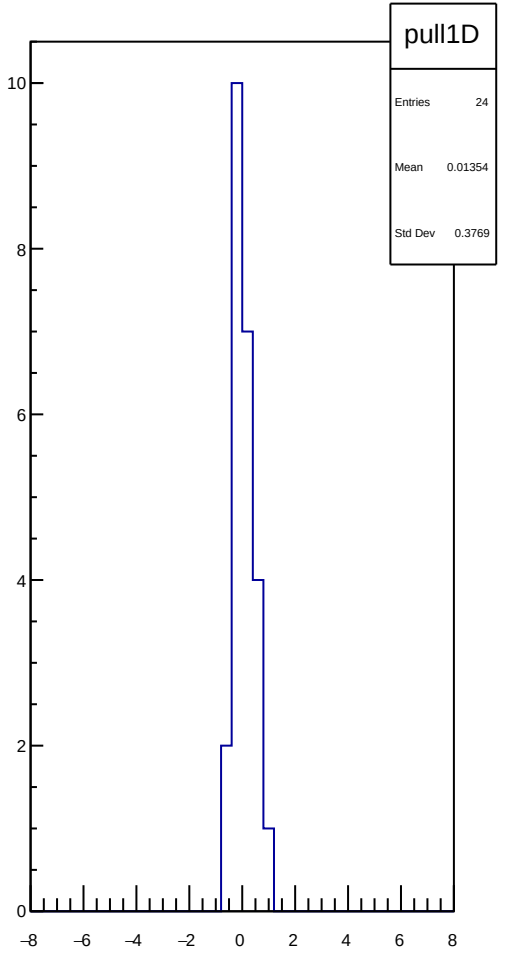

yield_atr1_rms vs run
×10⁻³
χ² / ndf 2.69e+04 / 23
p0 0.0001533 ± 2.272e−07
0.3
0.25
0.2
0.15
0.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

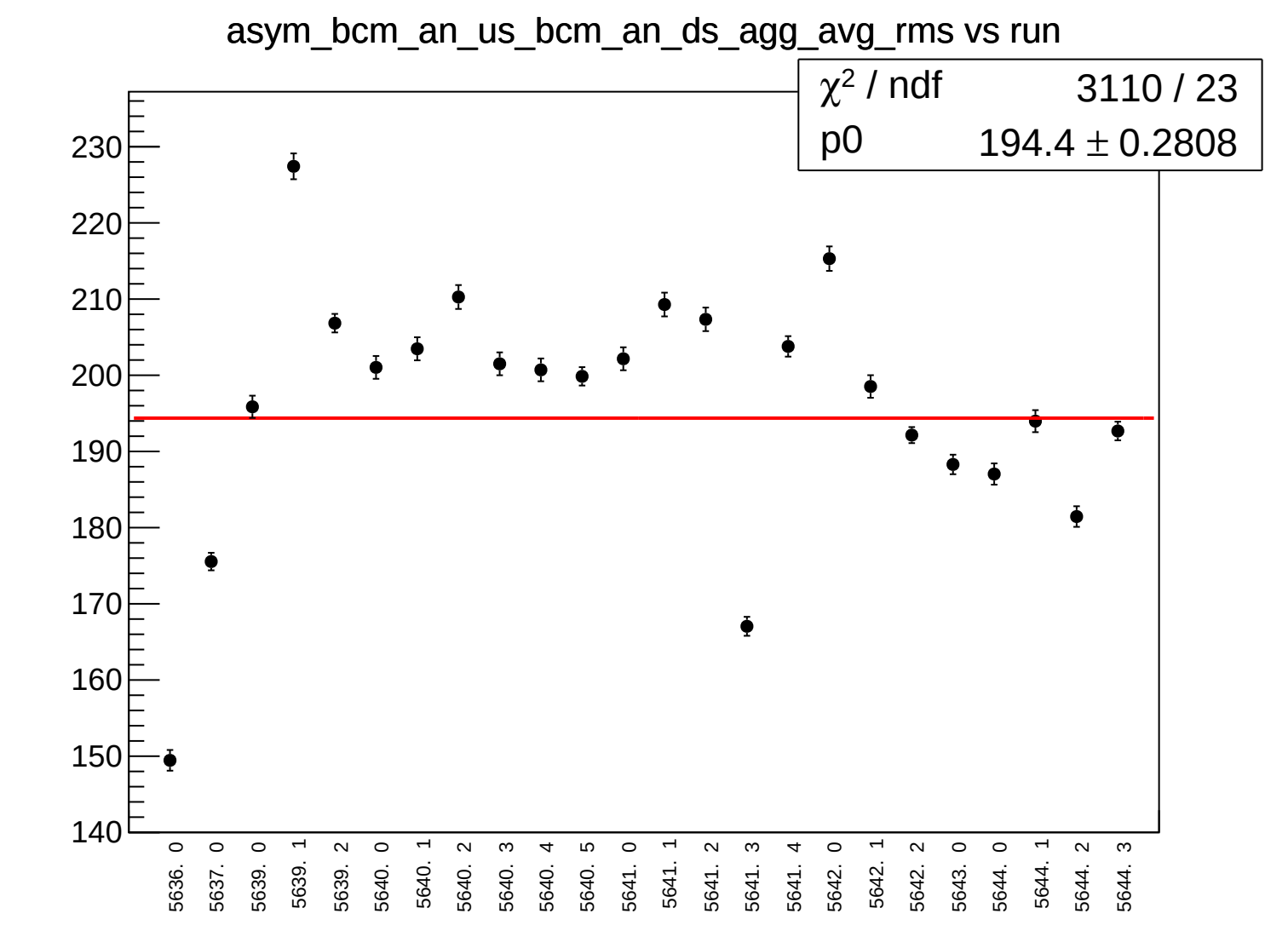

yield_atr2_mean vs run
χ² / ndf 1.462e+05 / 23
p0 0.0423 ± 8.197e−07
0.0435
0.043
0.0425
0.042
0.0415
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −19.19
Std Dev 0
150
100
50
0
−50
−100

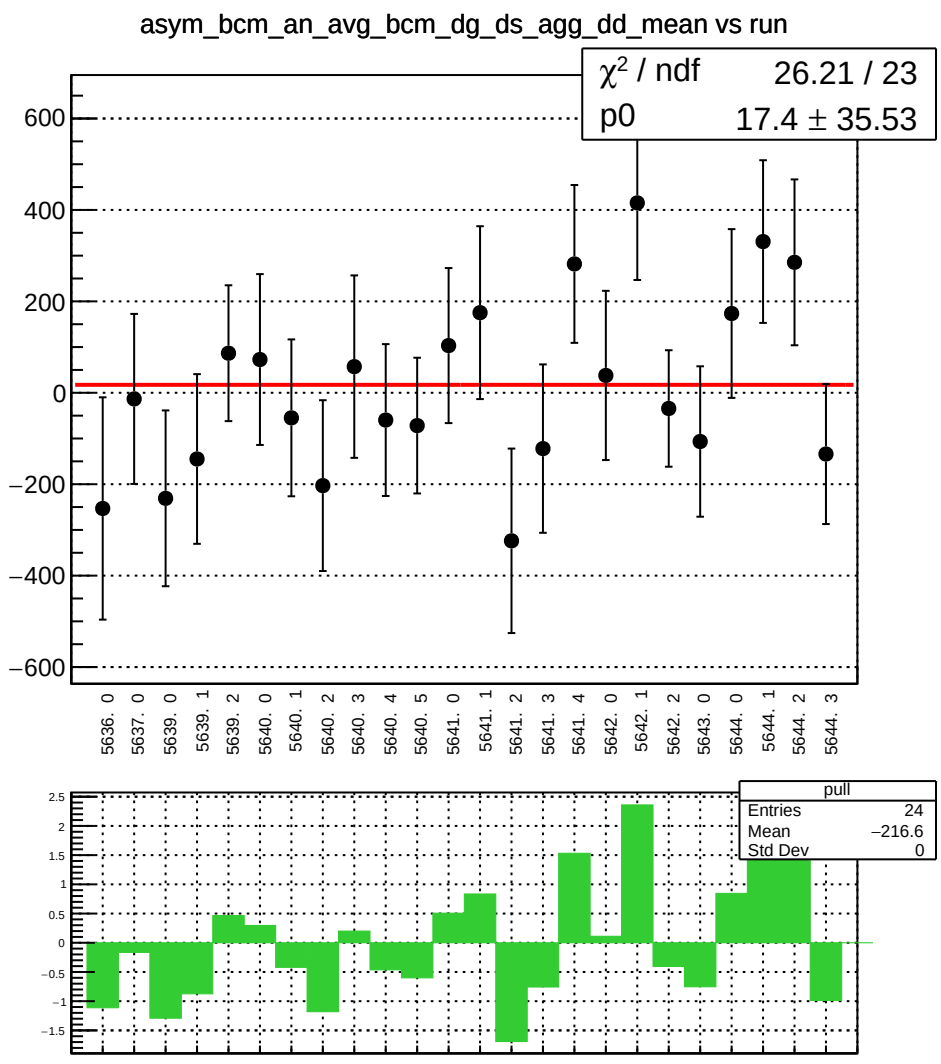

pull1D
Entries 24
Mean −5.631
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

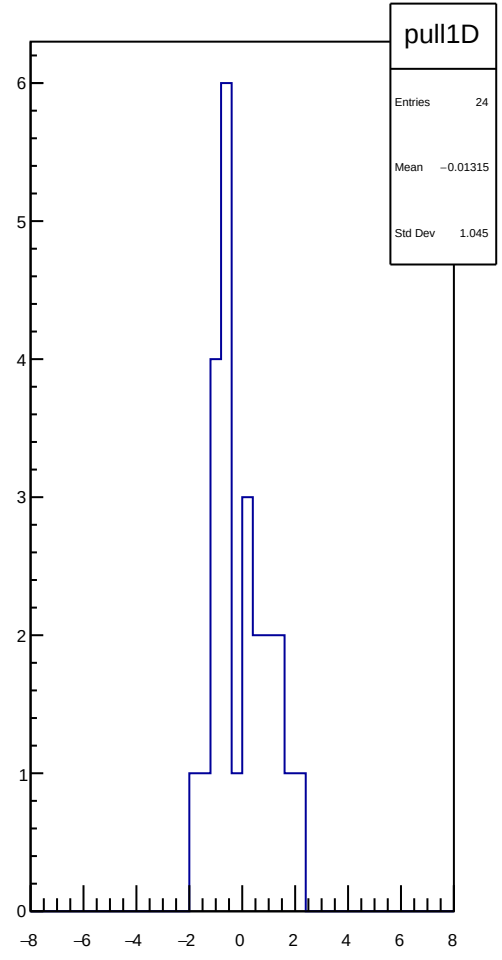

yield_atr2_rms vs run
χ² / ndf 8.747e+04 / 23
p0 0.0003642 ± 5.796e−07
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

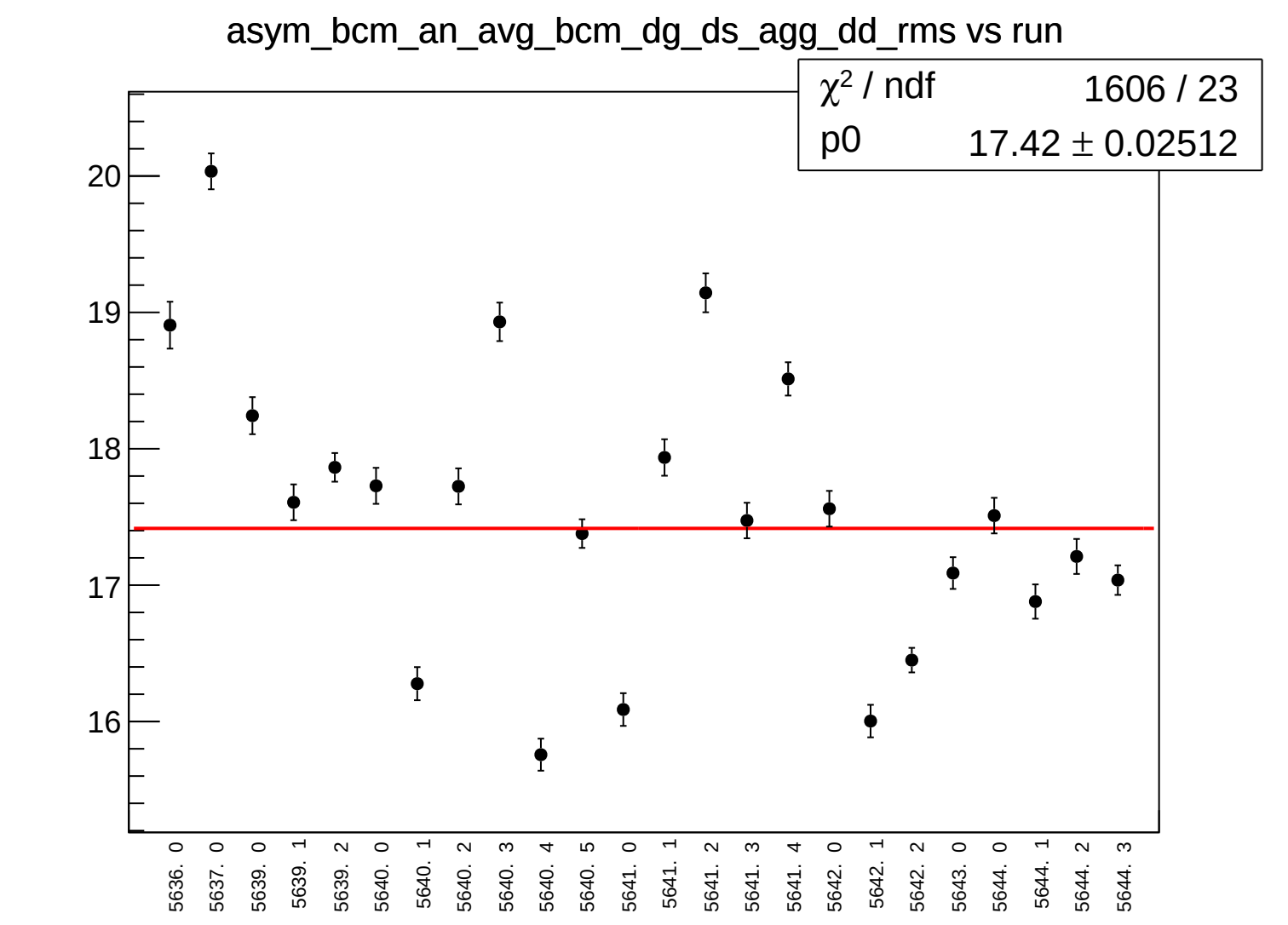

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 3.413 / 23
p0 22.44 ± 397.1
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 33.25
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

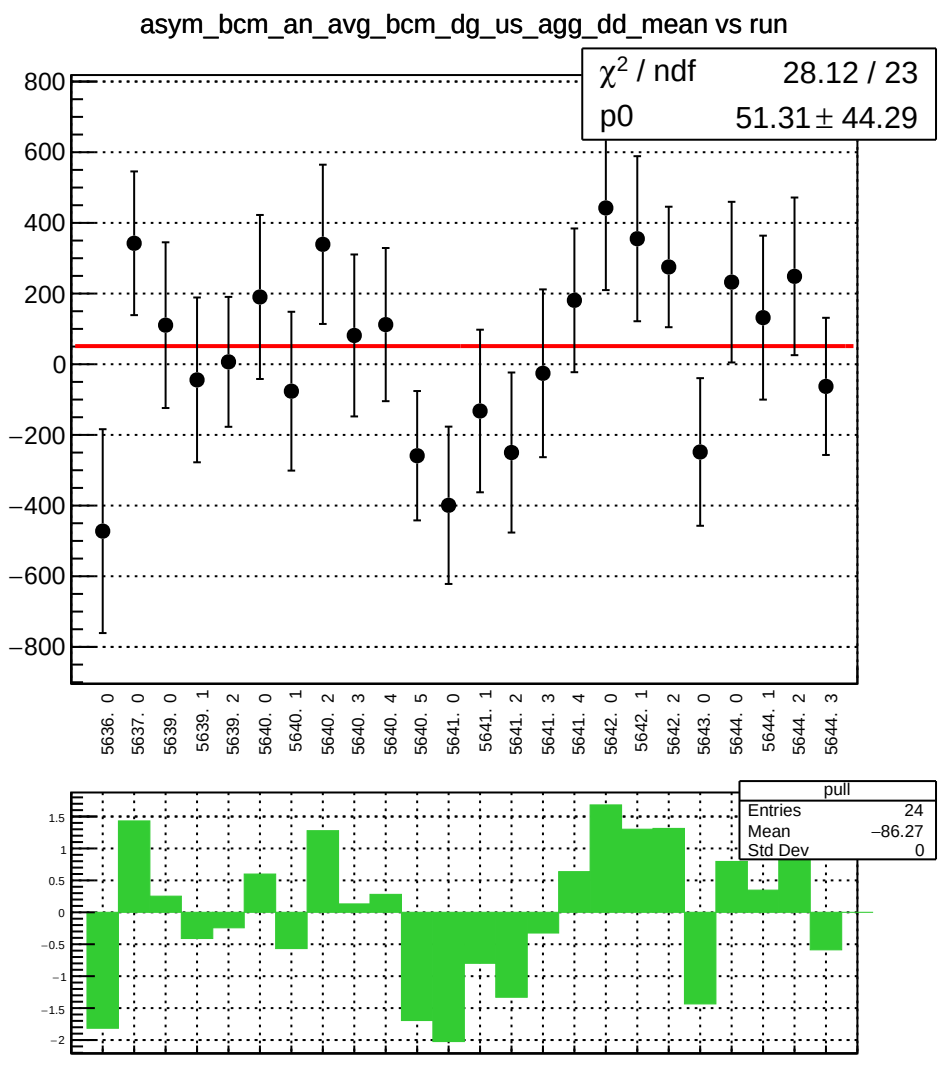

pull1D
Entries 24
Mean 0.01354
Std Dev 0.3769
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

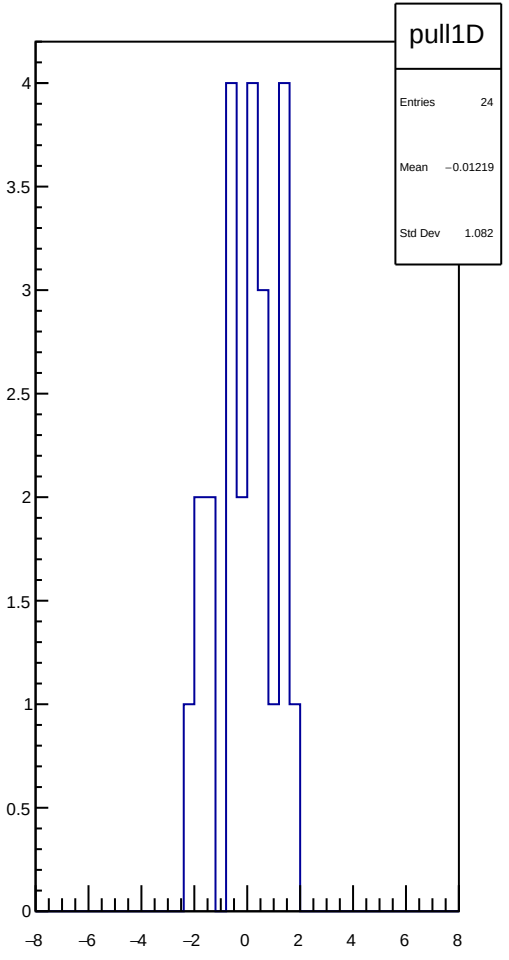

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3110 / 23
p0 194.4 ± 0.2808
230
220
210
200
190
180
170
160
150
140
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

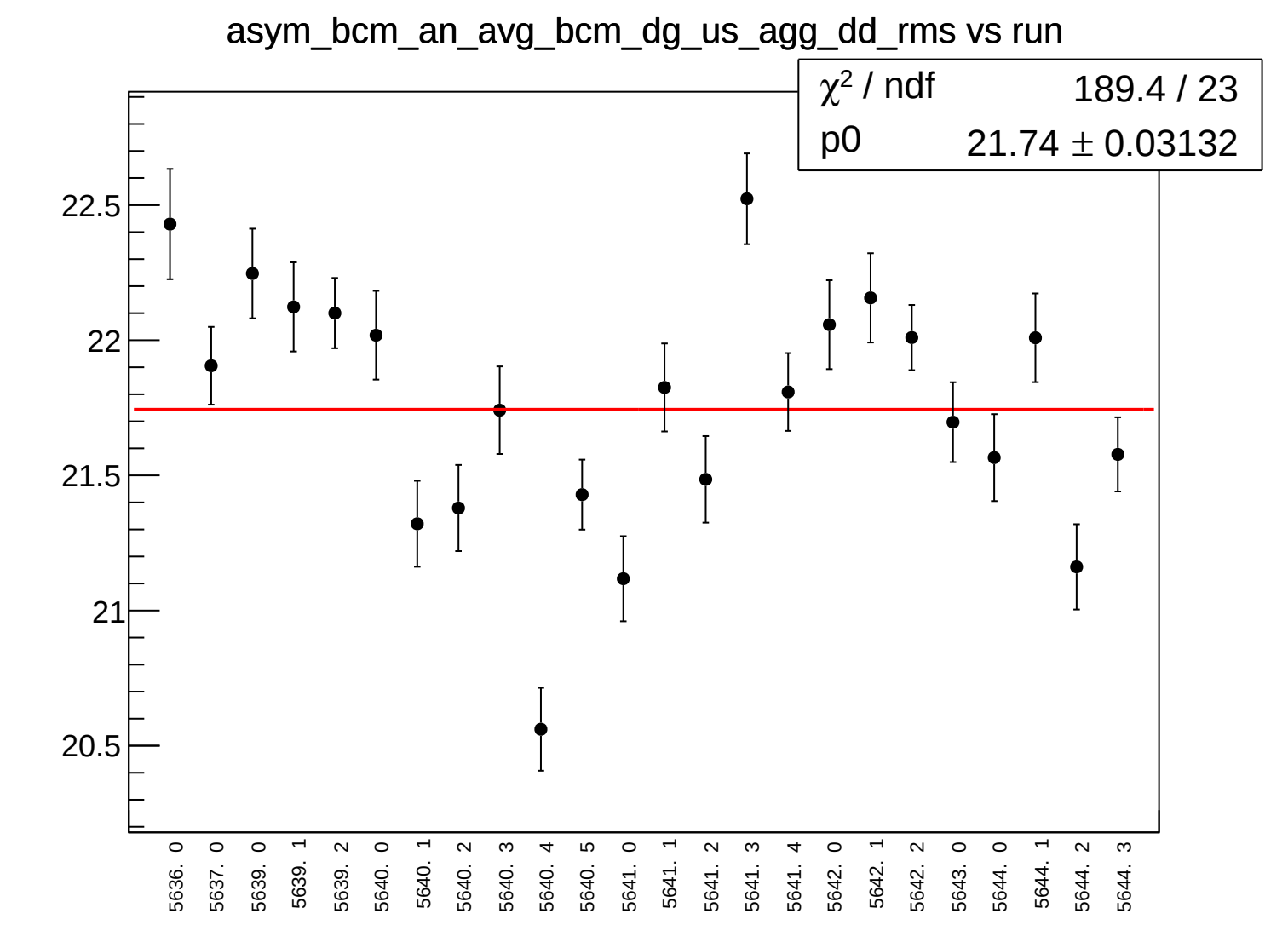

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 26.21 / 23
p0 17.4 ± 35.53
600
400
200
0
−200
−400
−600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −216.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

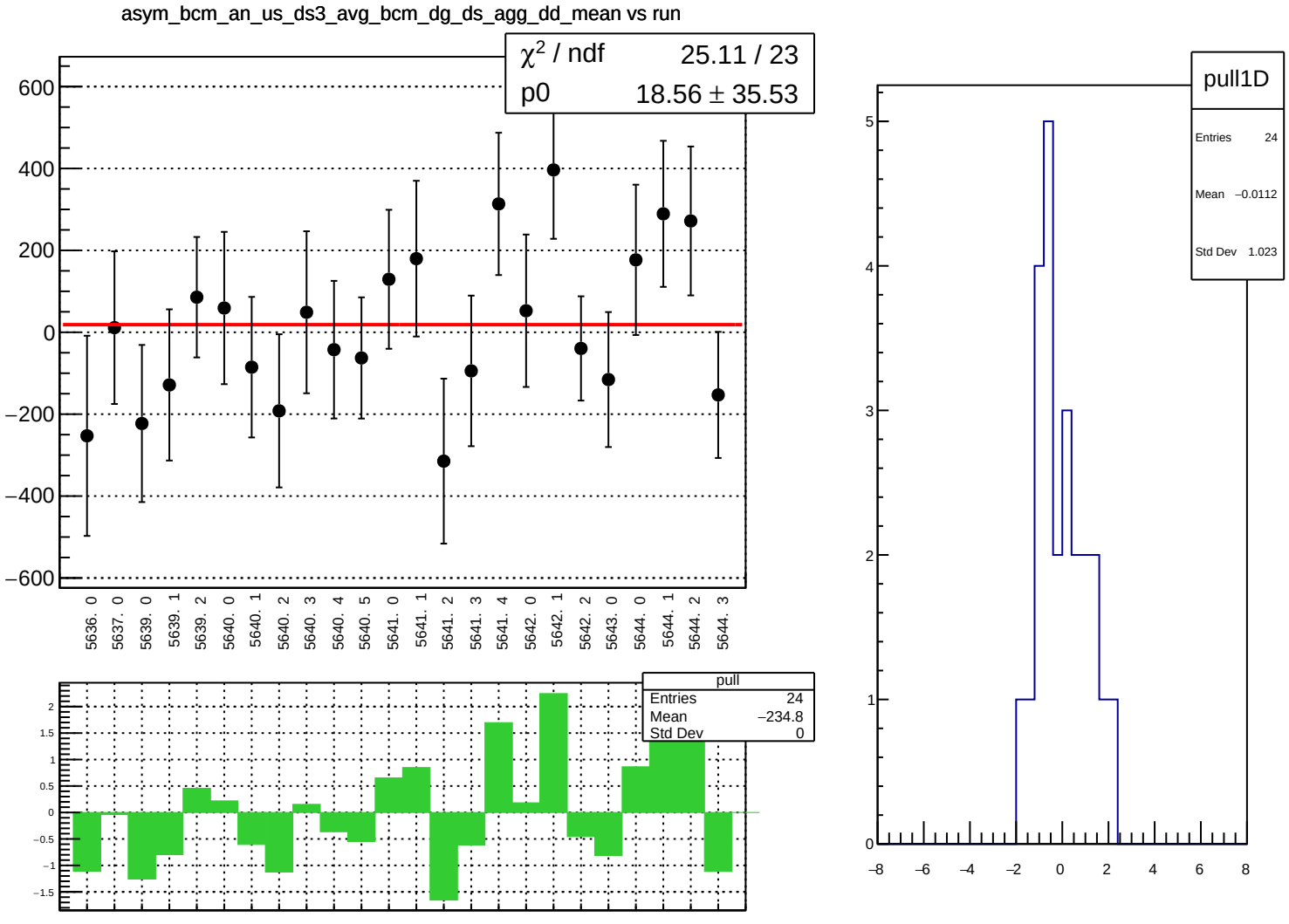

pull1D
Entries 24
Mean −0.01315
Std Dev 1.045
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

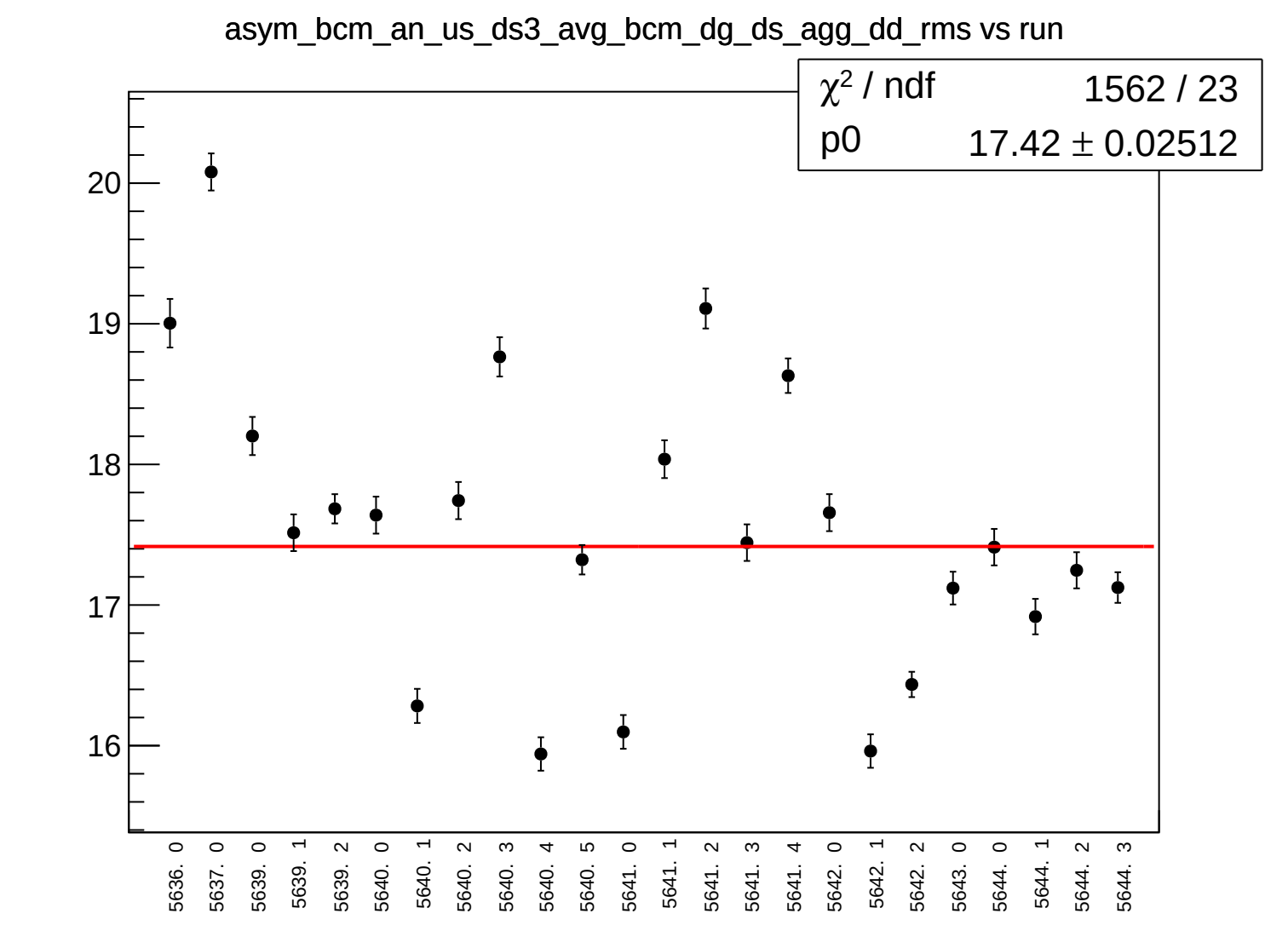

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1606 / 23
p0 17.42 ± 0.02512
20
19
18
17
16
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

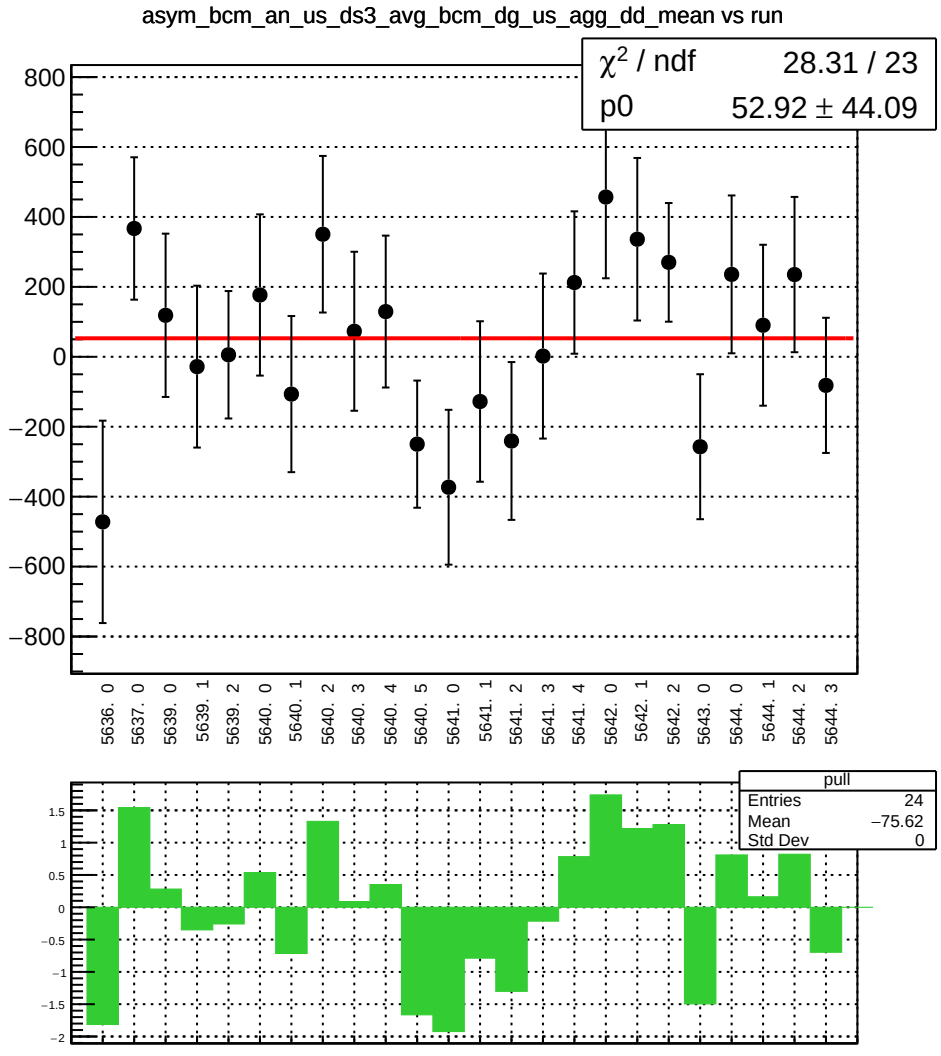

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 28.12 / 23
p0 51.31 ± 44.29
800
600
400
200
0
−200
−400
−600
−800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −86.27
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

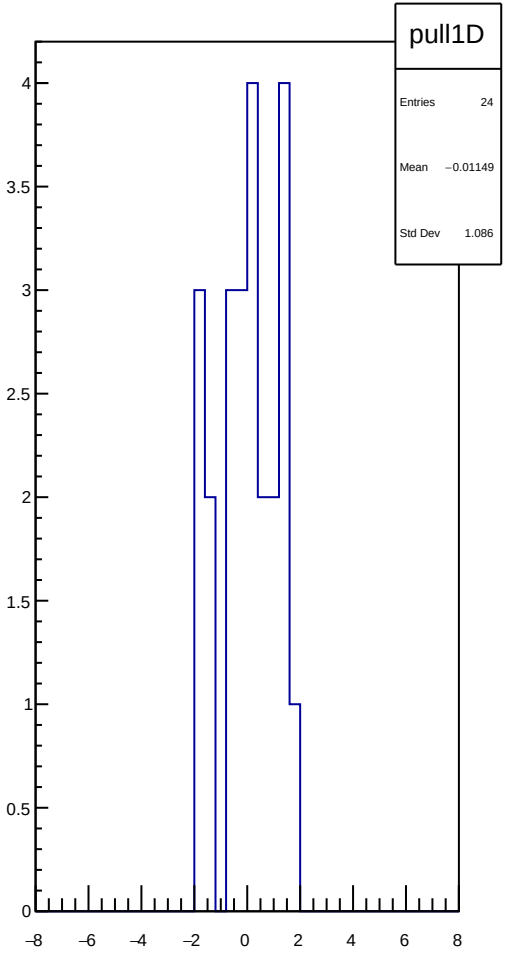

pull1D
Entries 24
Mean −0.01219
Std Dev 1.082
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

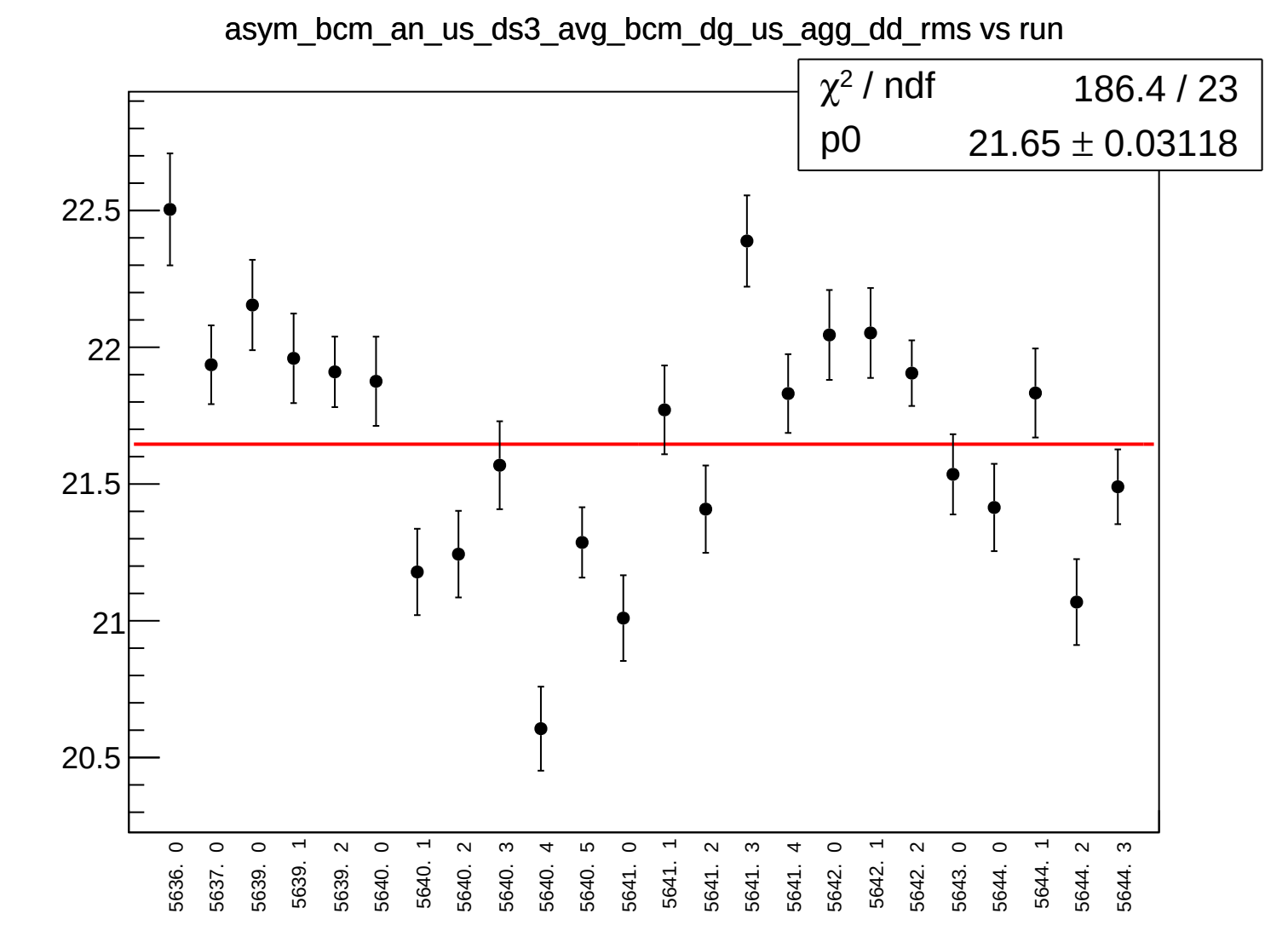

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 189.4 / 23
p0 21.74 ± 0.03132
22.5
22
21.5
21
20.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

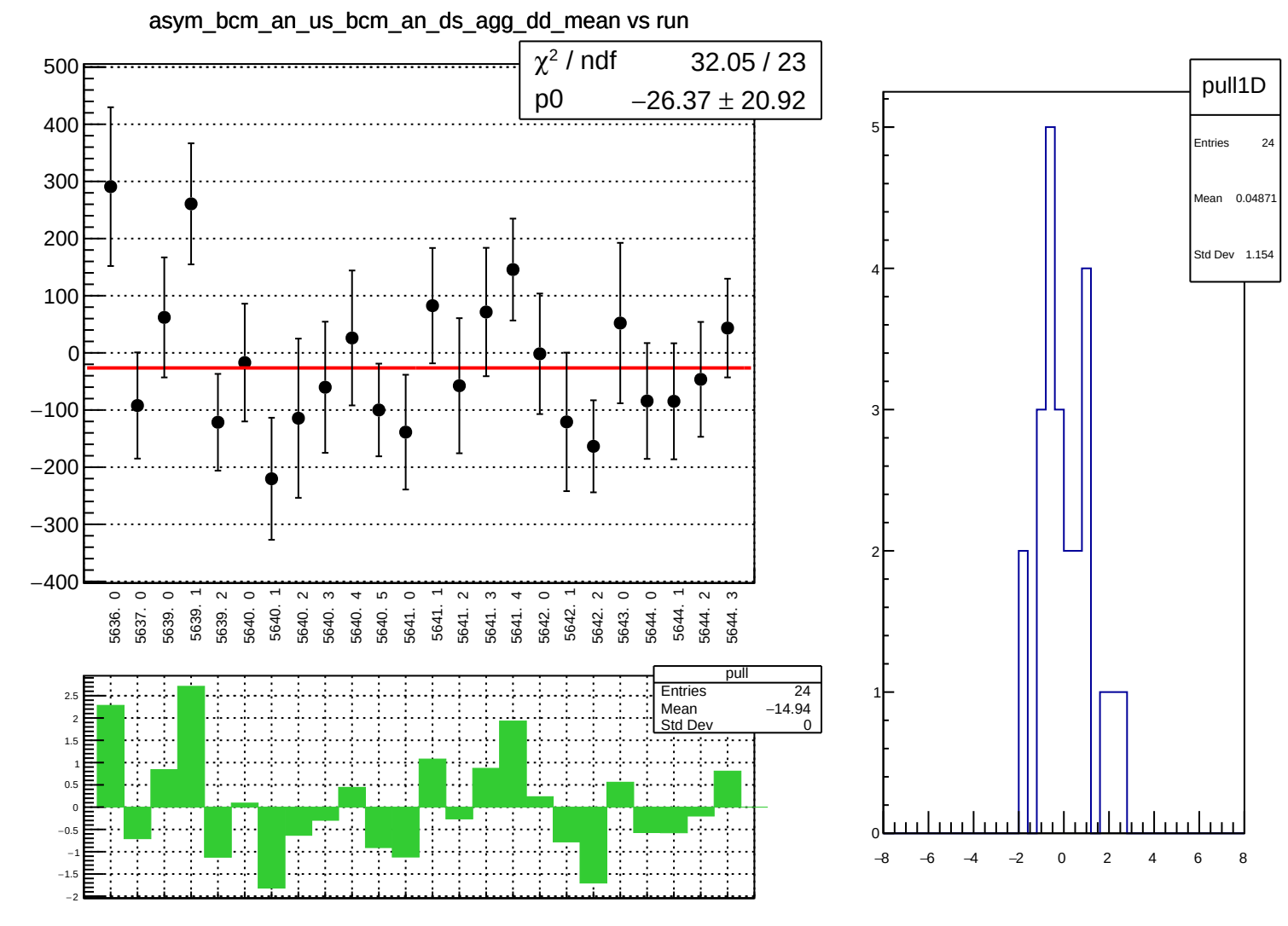

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 25.11 / 23
p0 18.56 ± 35.53
600
400
200
0
−200
−400
−600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −234.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.0112
Std Dev 1.023
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

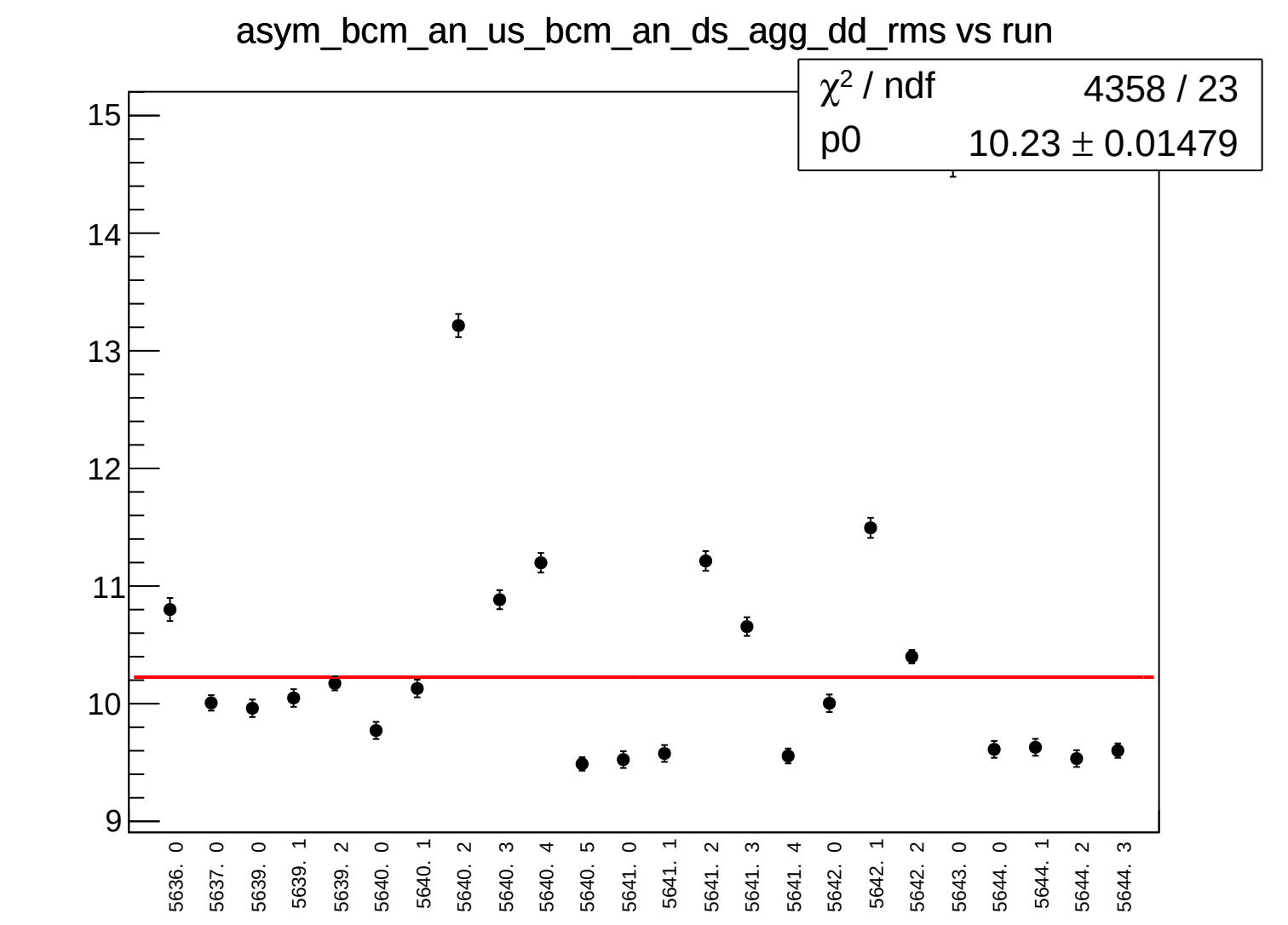

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1562 / 23
p0 17.42 ± 0.02512
20
19
18
17
16
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

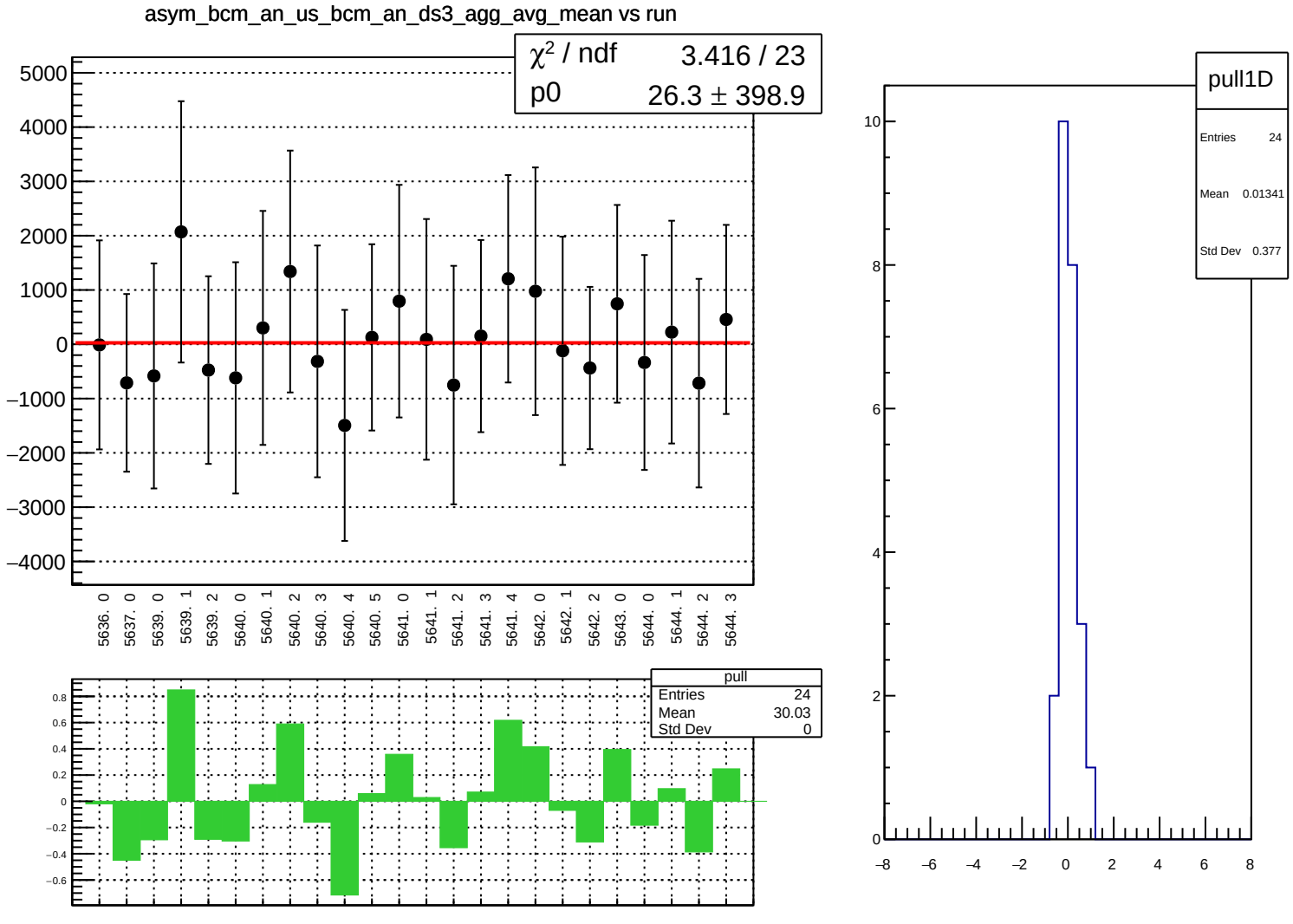

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 28.31 / 23
p0 52.92 ± 44.09
800
600
400
200
0
−200
−400
−600
−800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −75.62
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

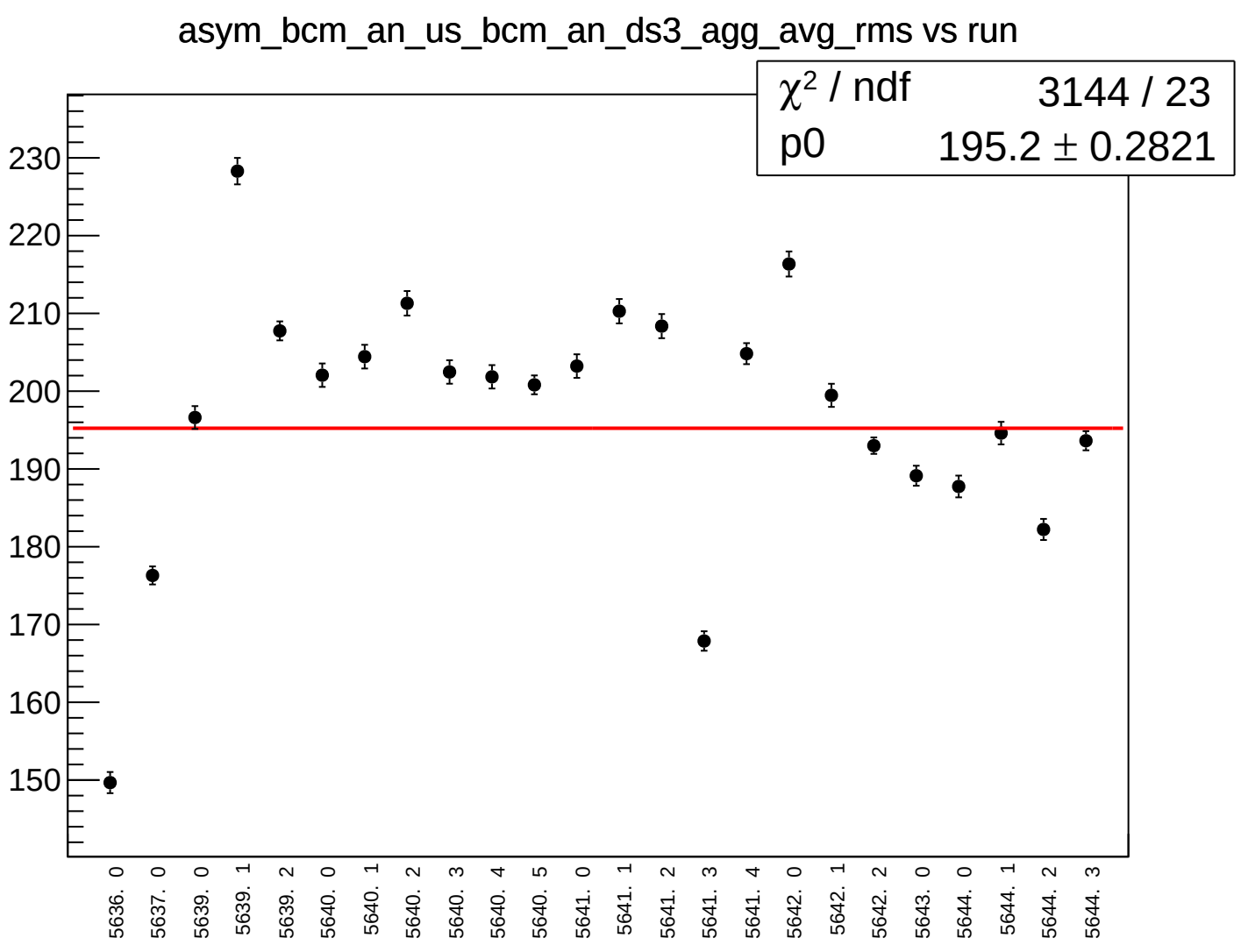

pull1D
Entries 24
Mean −0.01149
Std Dev 1.086
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

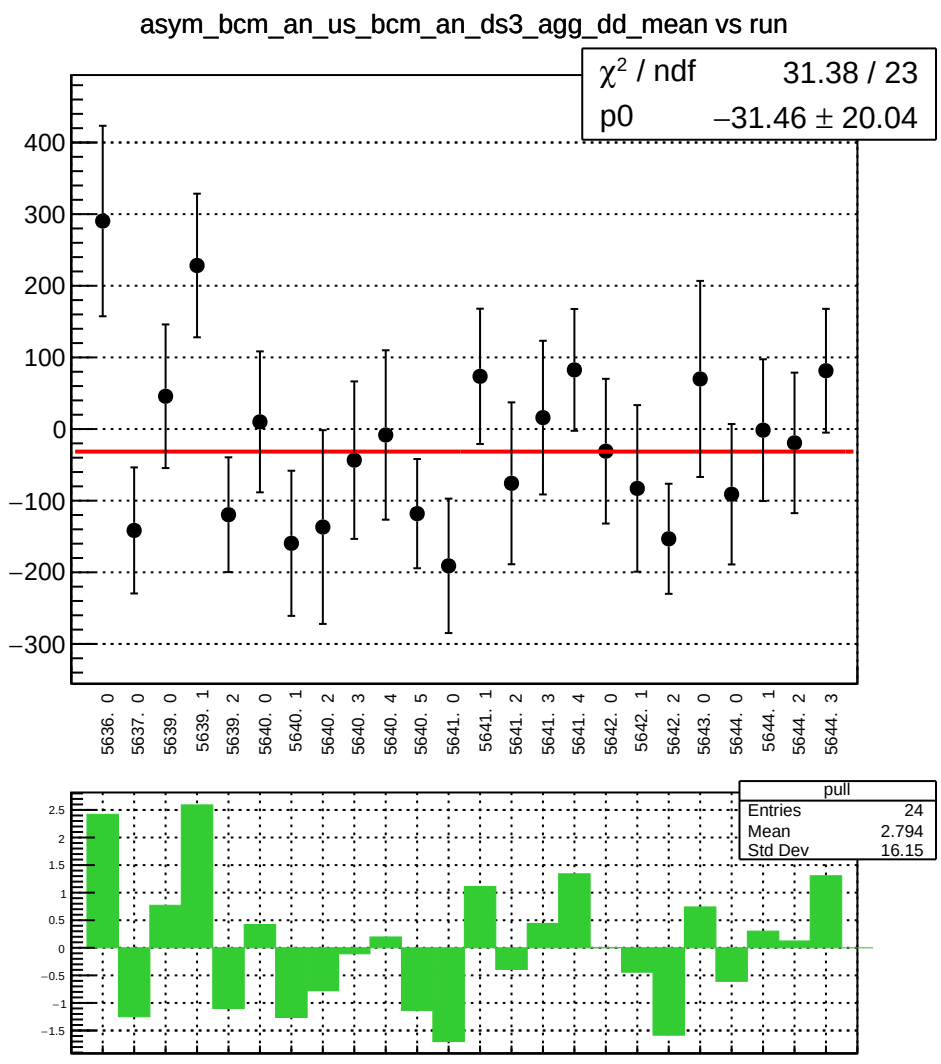

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 186.4 / 23
p0 21.65 ± 0.03118
22.5
22
21.5
21
20.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

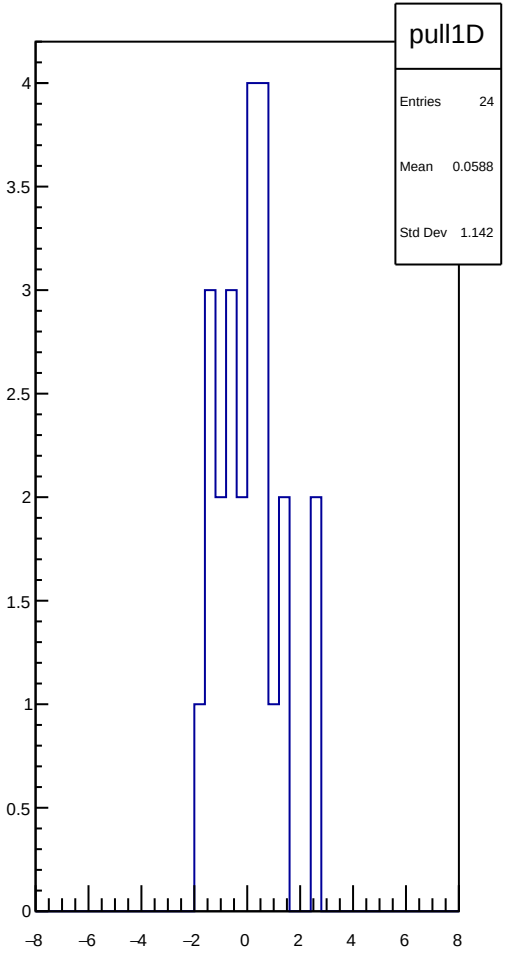

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 32.05 / 23
p0 −26.37 ± 20.92
500
400
300
200
100
0
−100
−200
−300
−400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −14.94
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.04871
Std Dev 1.154
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

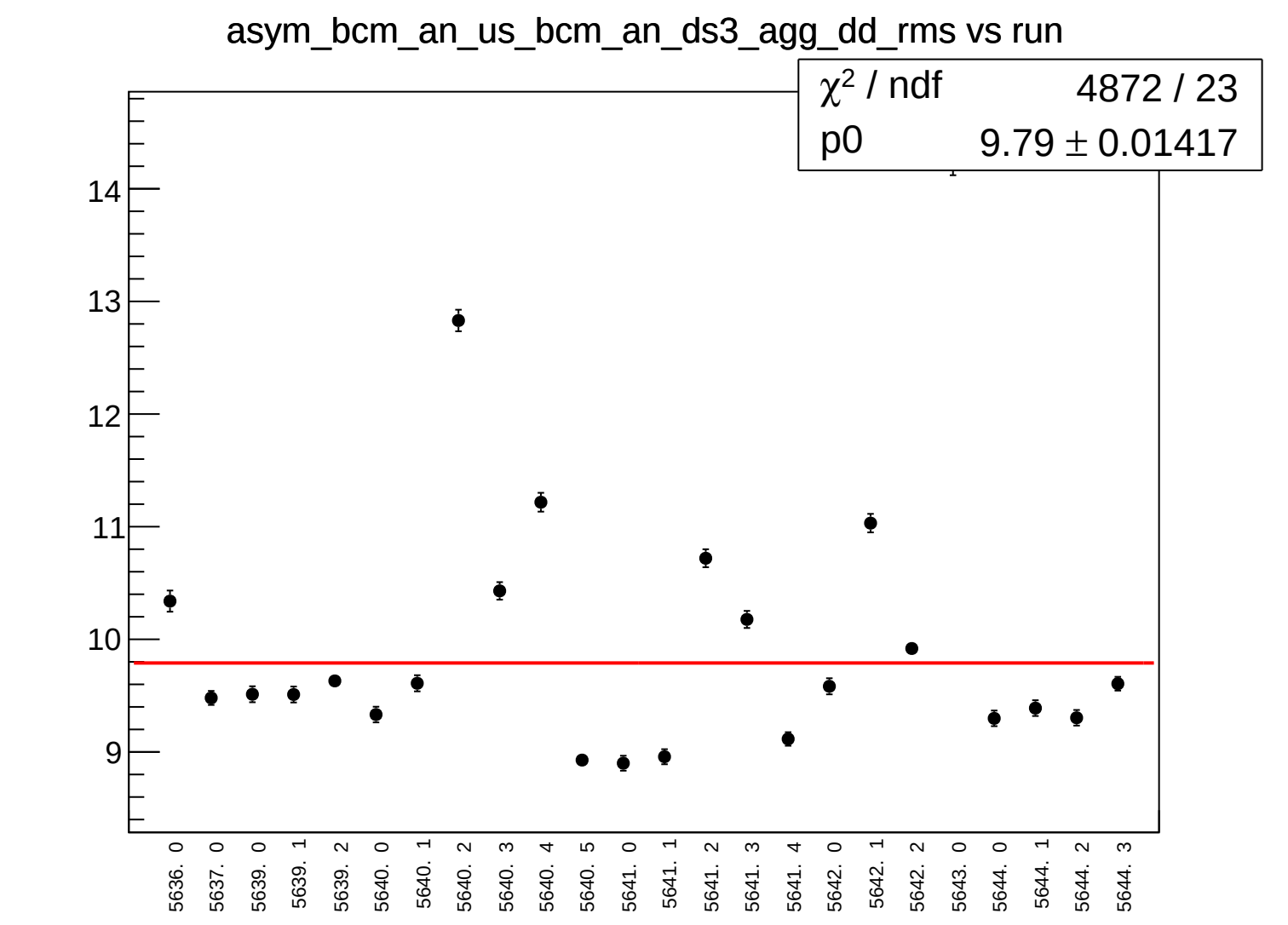

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 4358 / 23
p0 10.23 ± 0.01479
15
14
13
12
11
10
9
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

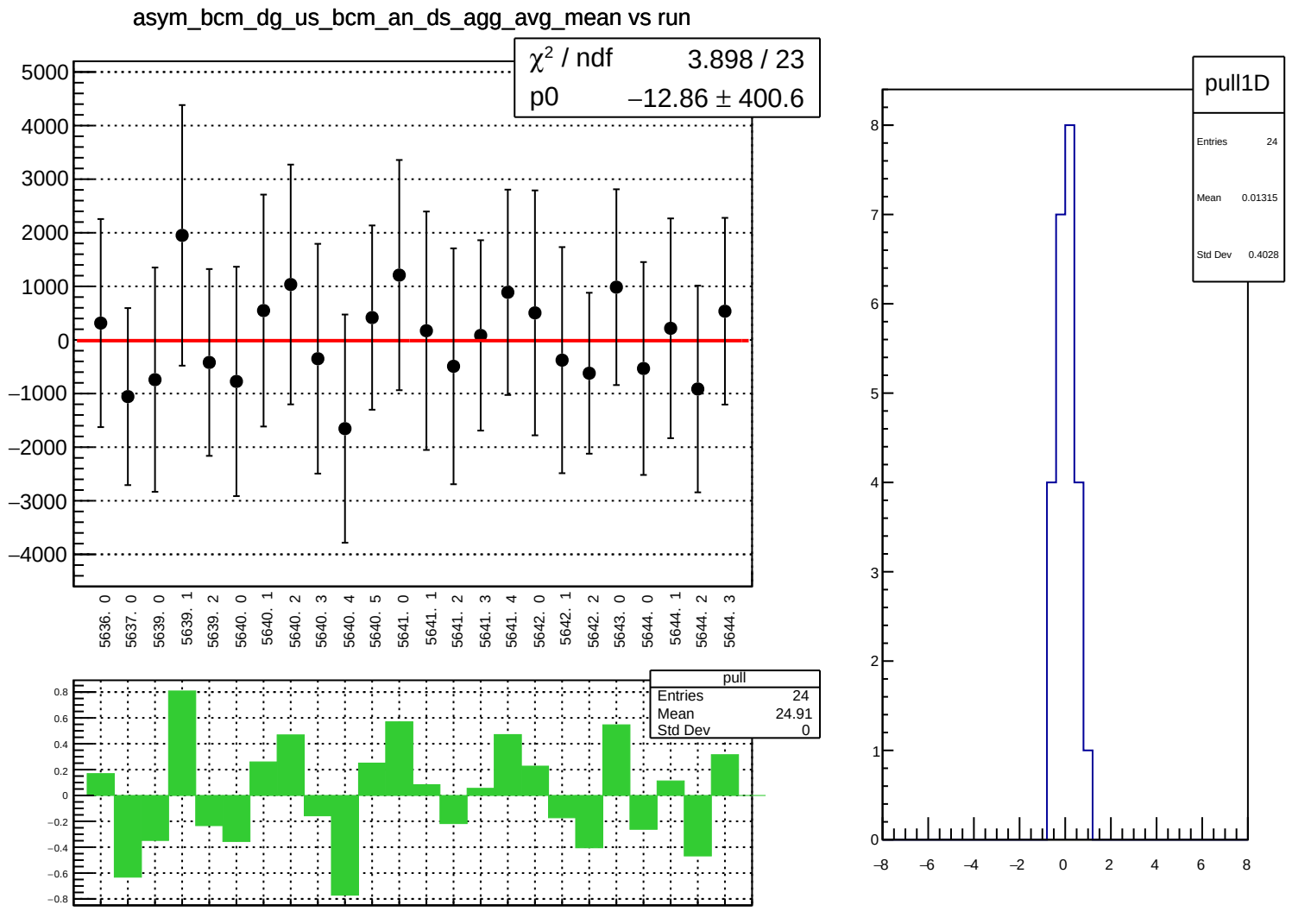

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 3.416 / 23
p0 26.3 ± 398.9
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 30.03
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 24
Mean 0.01341
Std Dev 0.377
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

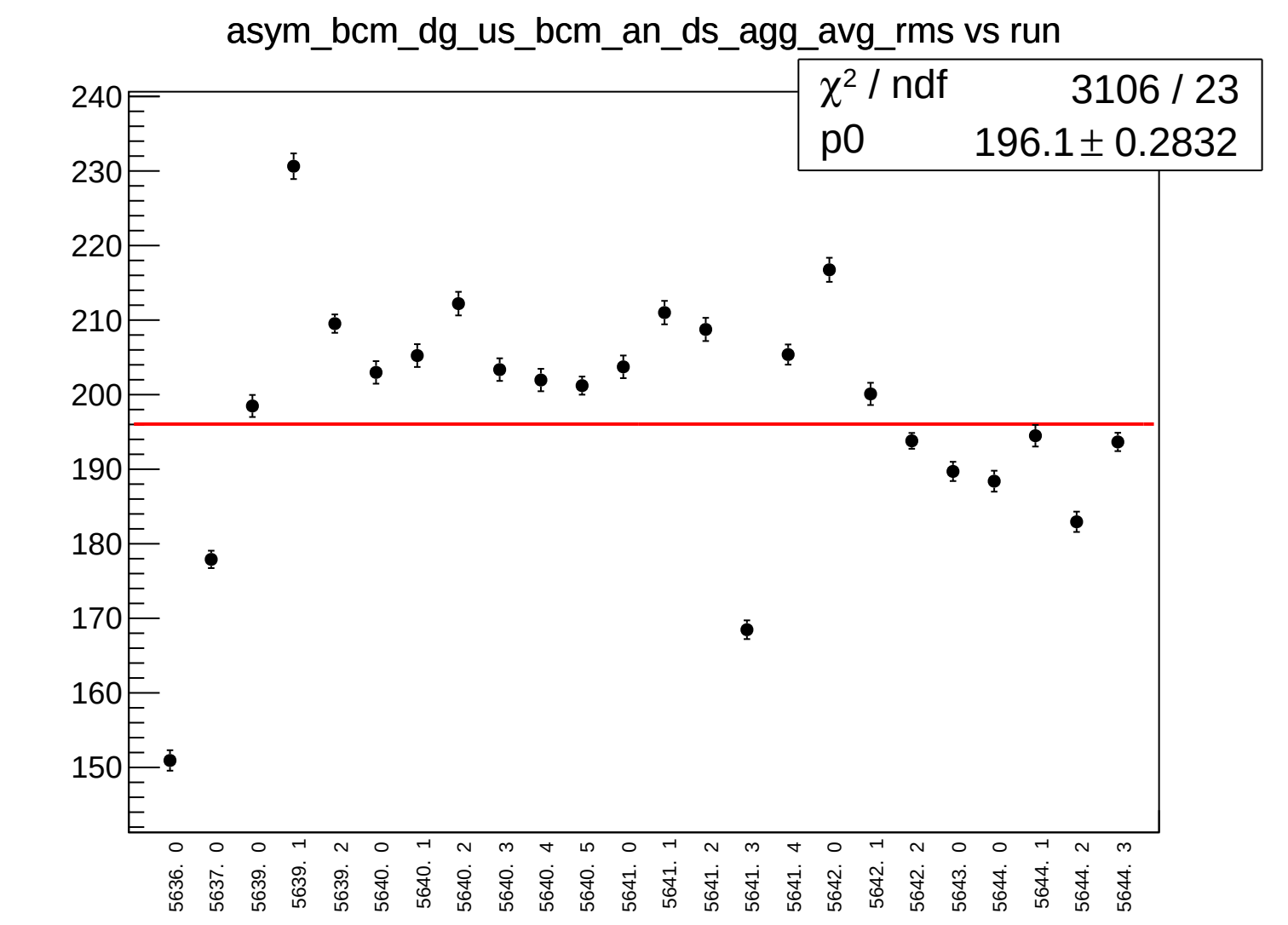

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 3144 / 23
p0 195.2 ± 0.2821
230
220
210
200
190
180
170
160
150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

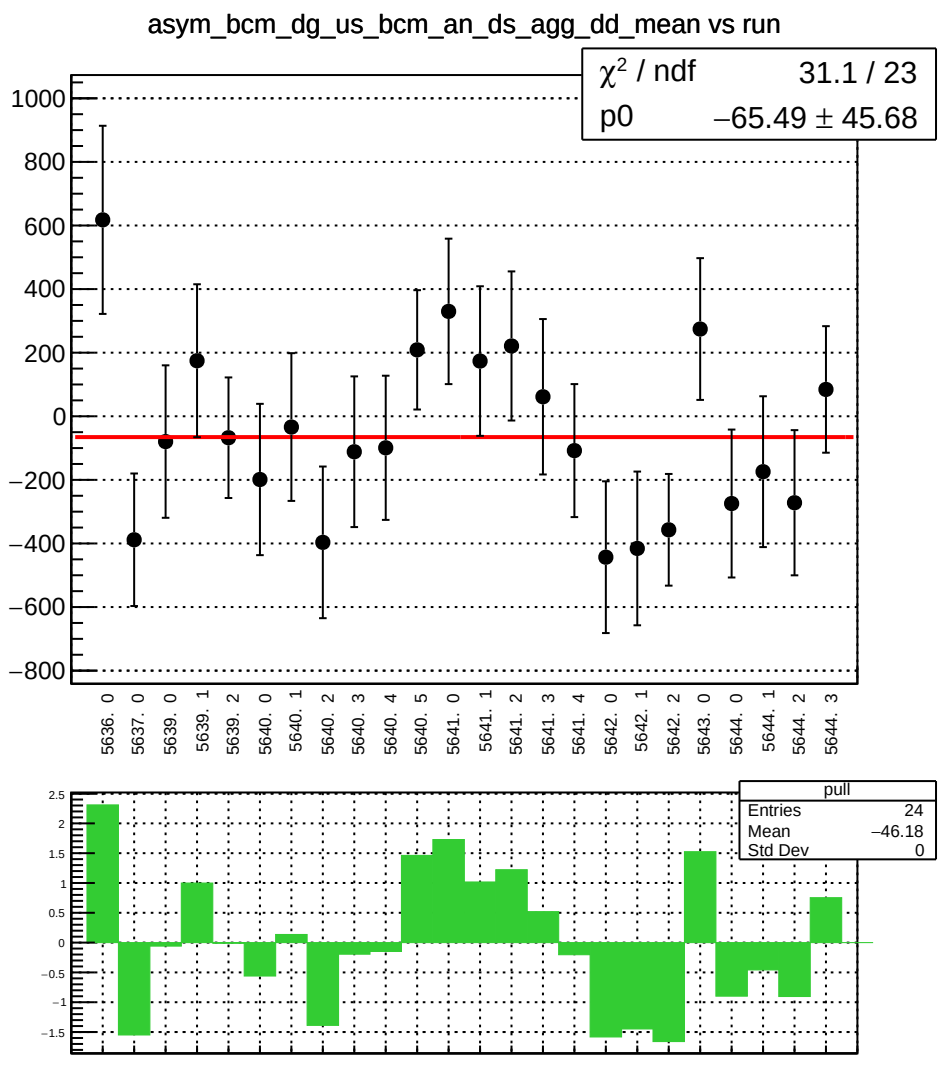

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 31.38 / 23
p0 −31.46 ± 20.04
400
300
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 2.794
Std Dev 16.15
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

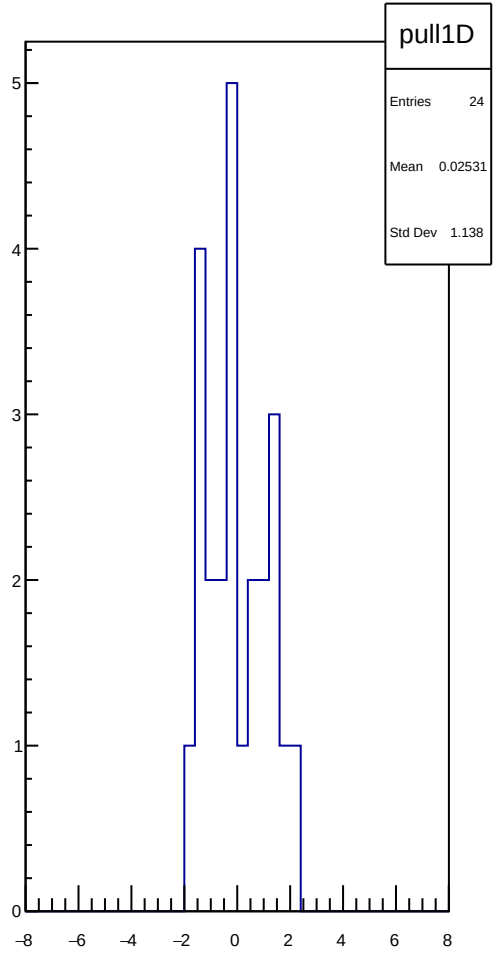

pull1D
Entries 24
Mean 0.0588
Std Dev 1.142
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

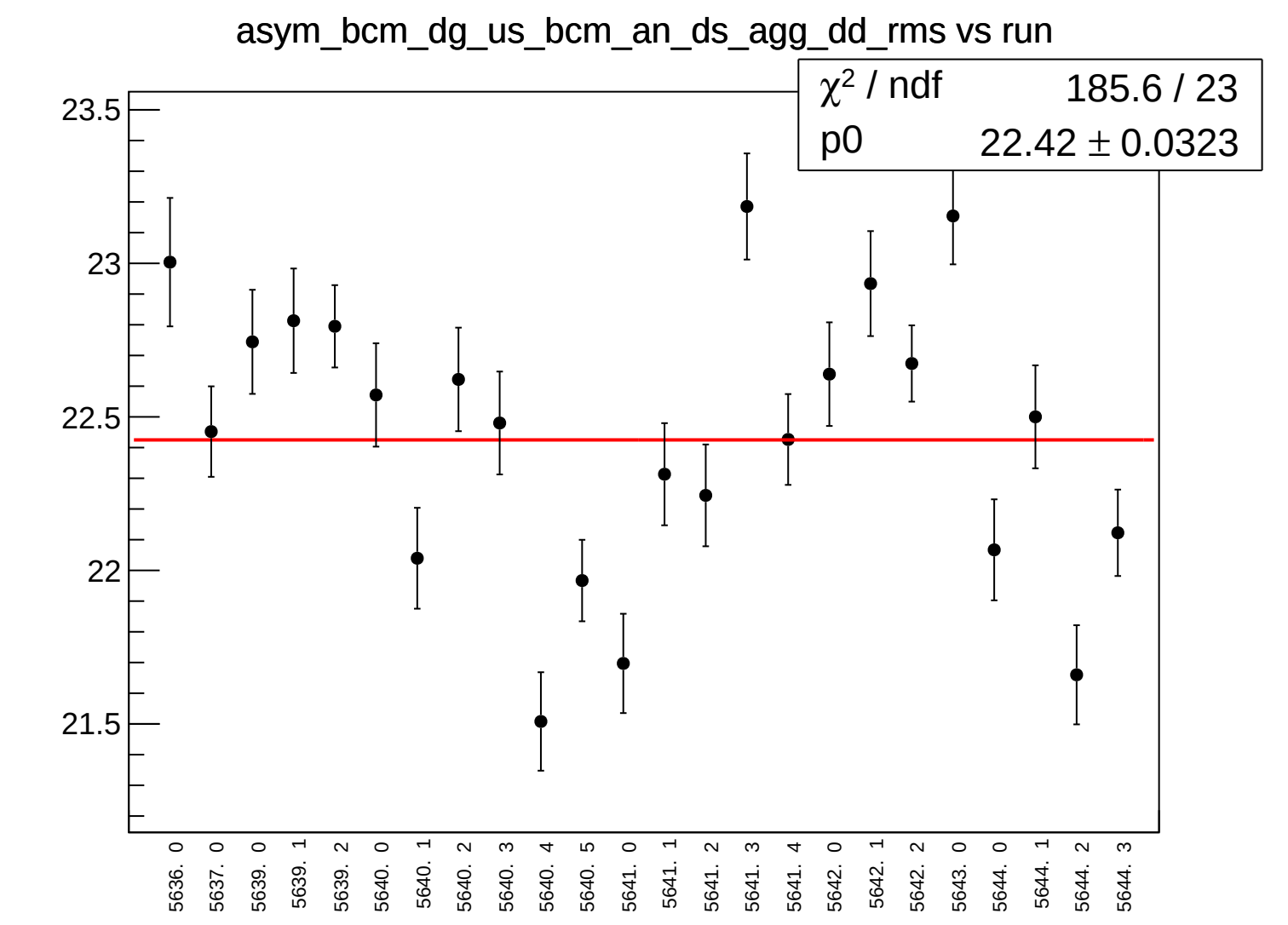

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 4872 / 23
p0 9.79 ± 0.01417
14
13
12
11
10
9
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

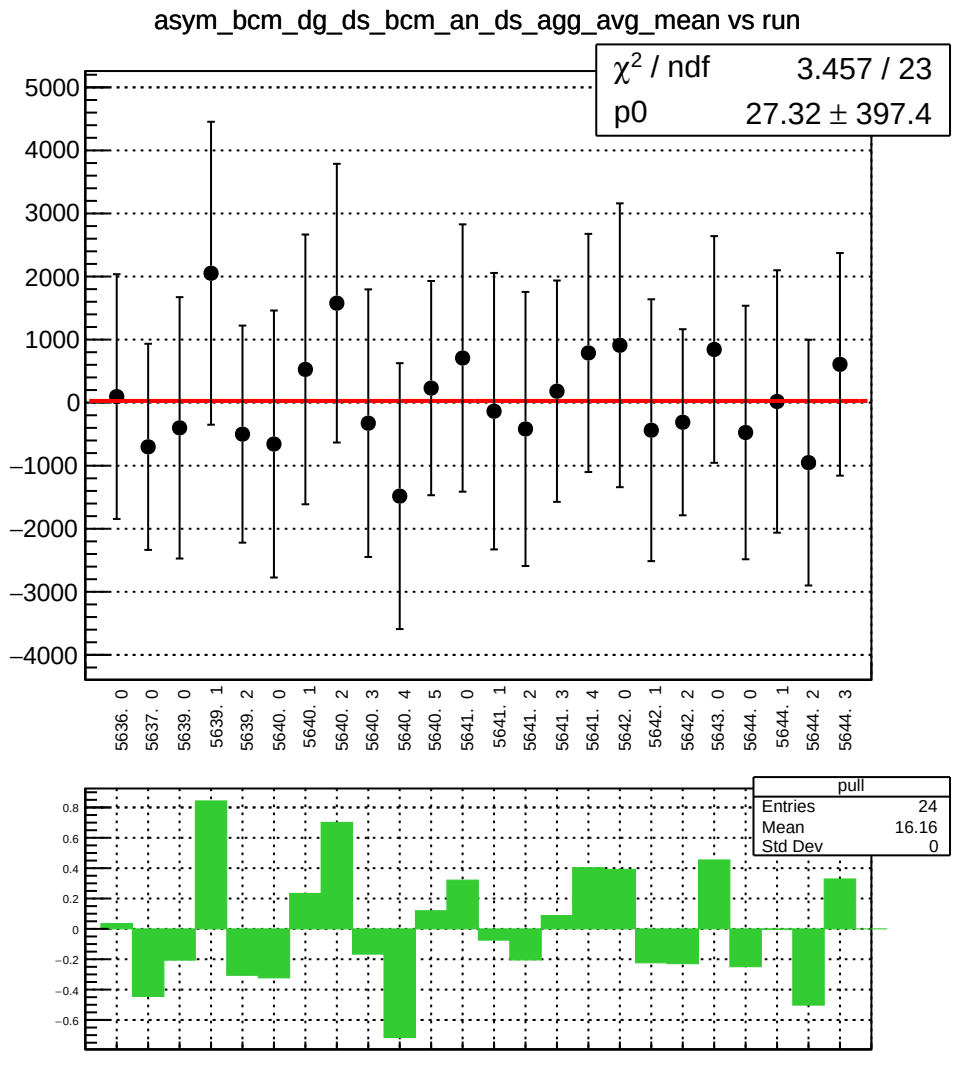

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 3.898 / 23
p0 −12.86 ± 400.6
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 24.91
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean 0.01315
Std Dev 0.4028
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

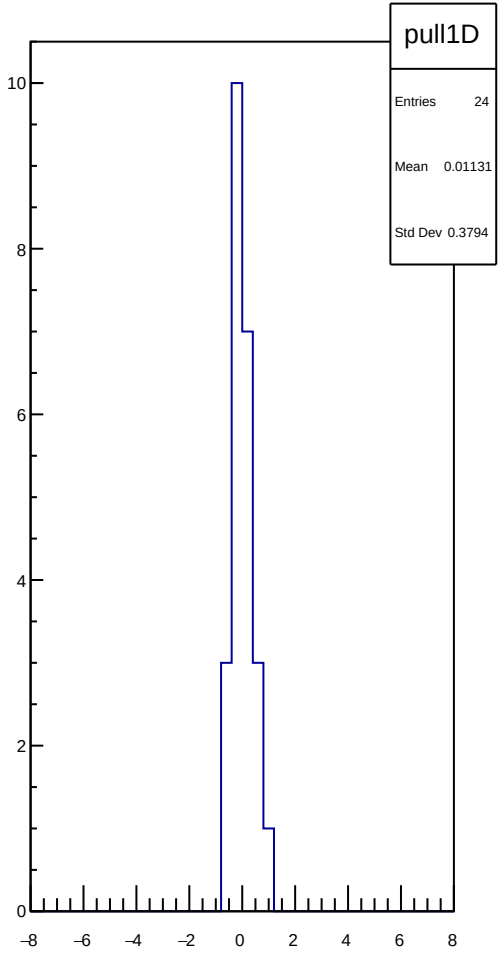

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3106 / 23
p0 196.1 ± 0.2832
240
230
220
210
200
190
180
170
160
150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

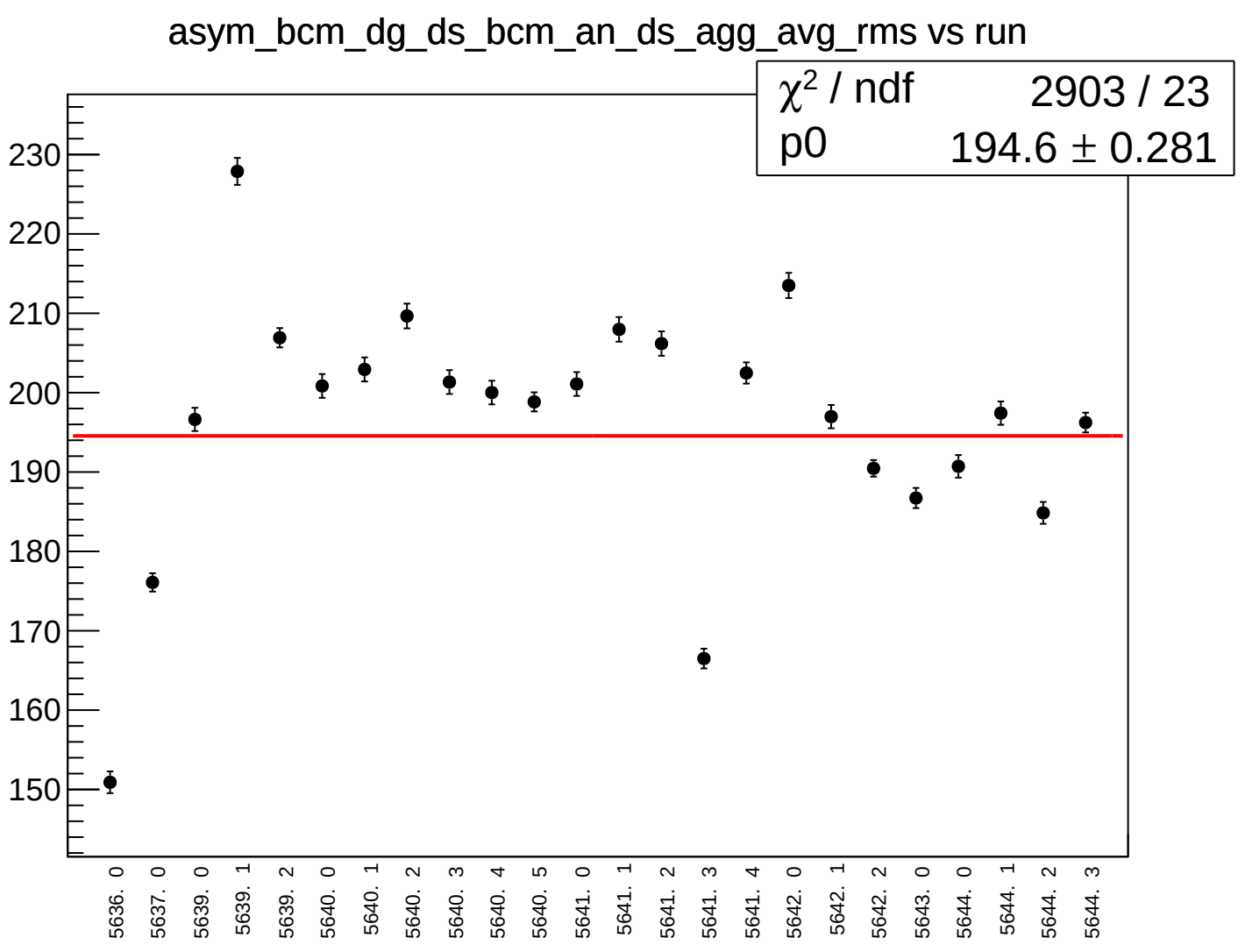

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 31.1 / 23
p0 −65.49 ± 45.68
1000
800
600
400
200
0
−200
−400
−600
−800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −46.18
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

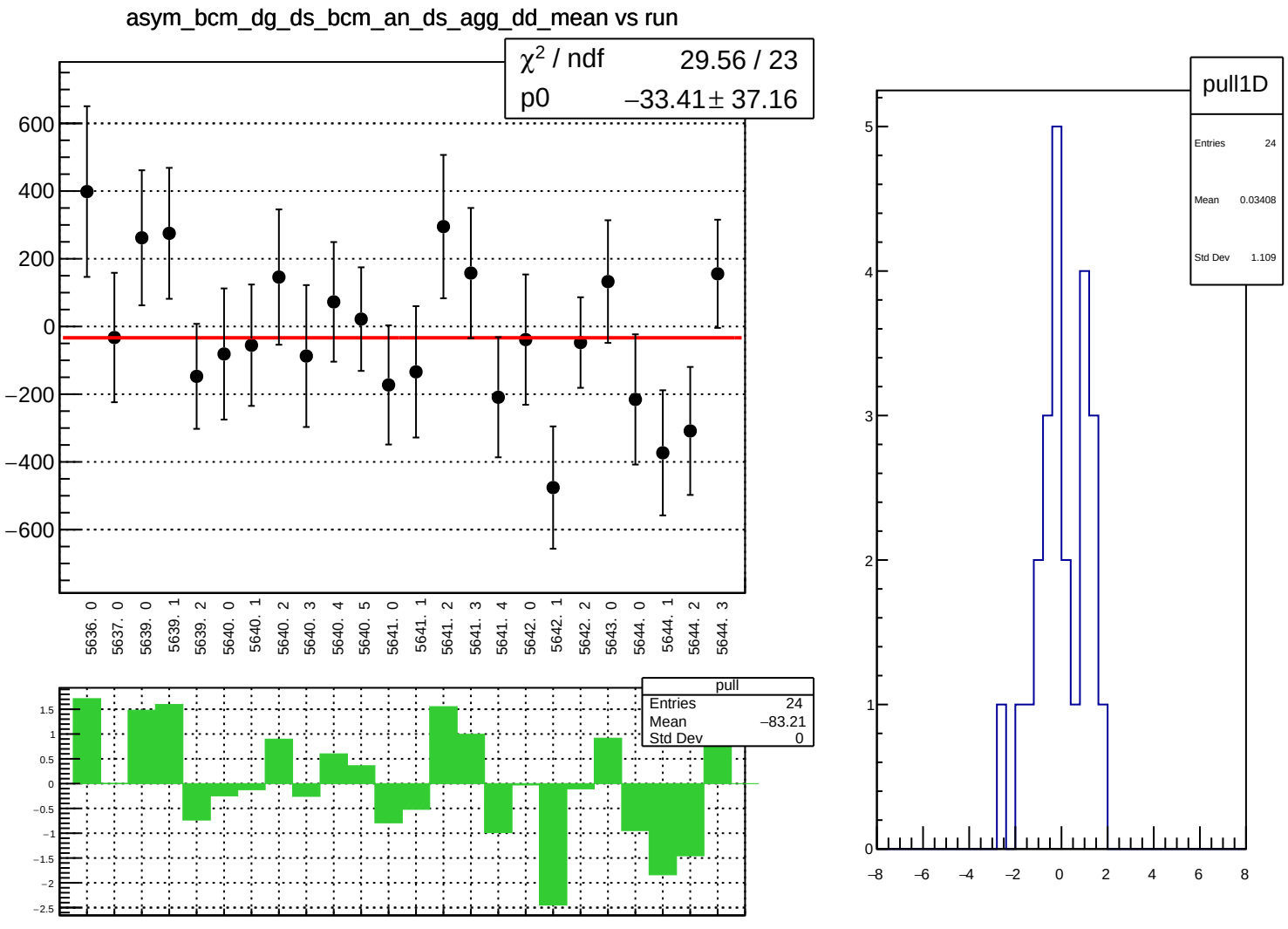

pull1D
Entries 24
Mean 0.02531
Std Dev 1.138
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

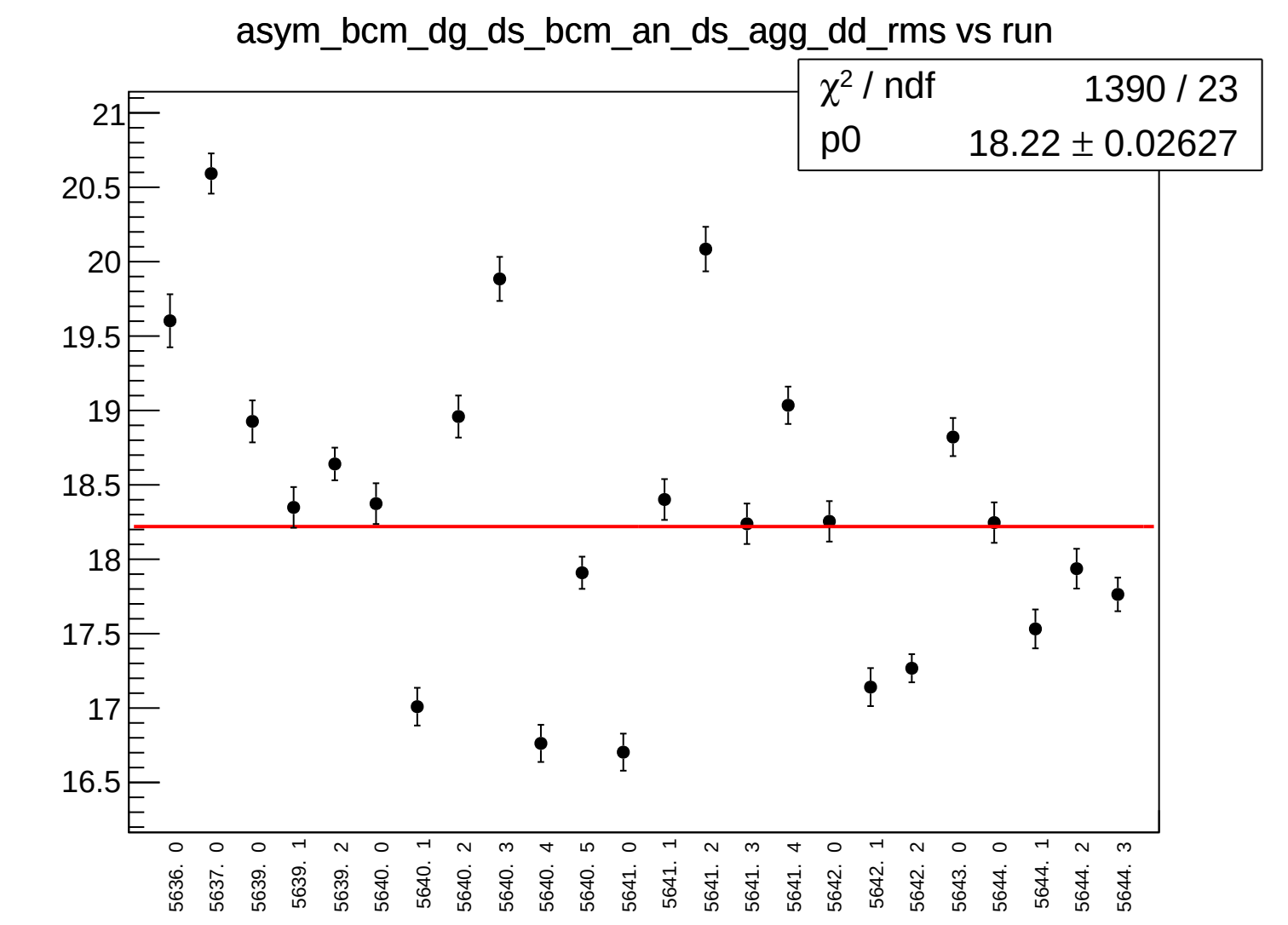

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 185.6 / 23
p0 22.42 ± 0.0323
23.5
23
22.5
22
21.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

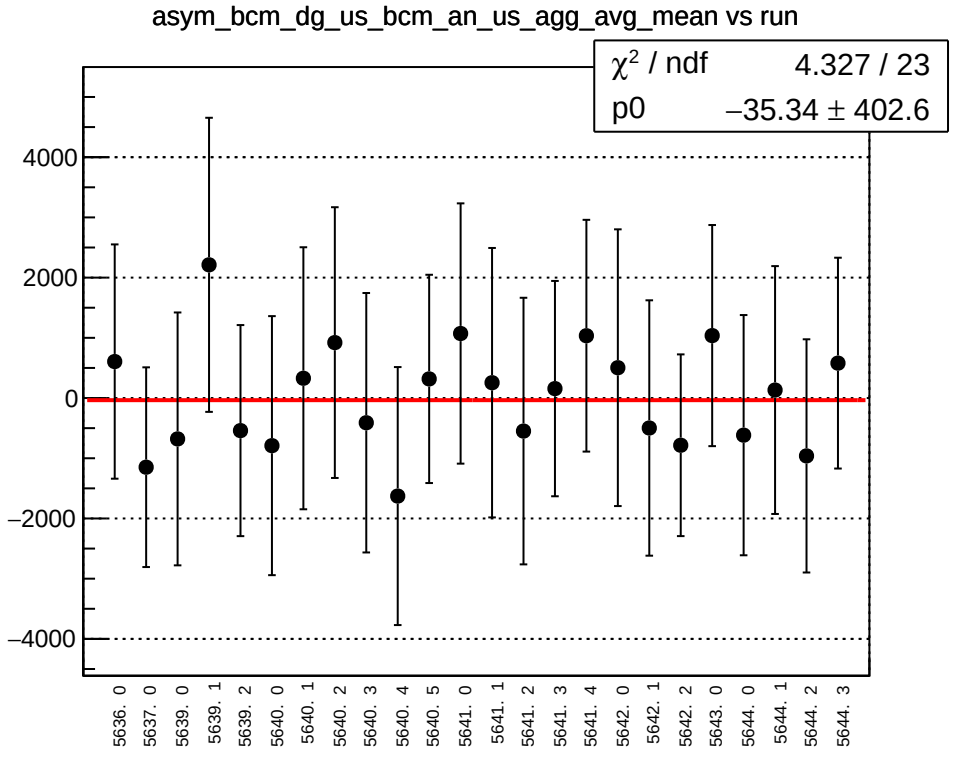

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 3.457 / 23
p0 27.32 ± 397.4
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 16.16
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

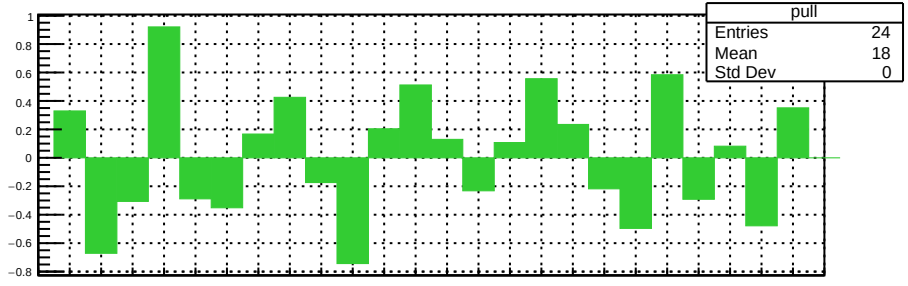

pull1D
Entries 24
Mean 0.01131
Std Dev 0.3794
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

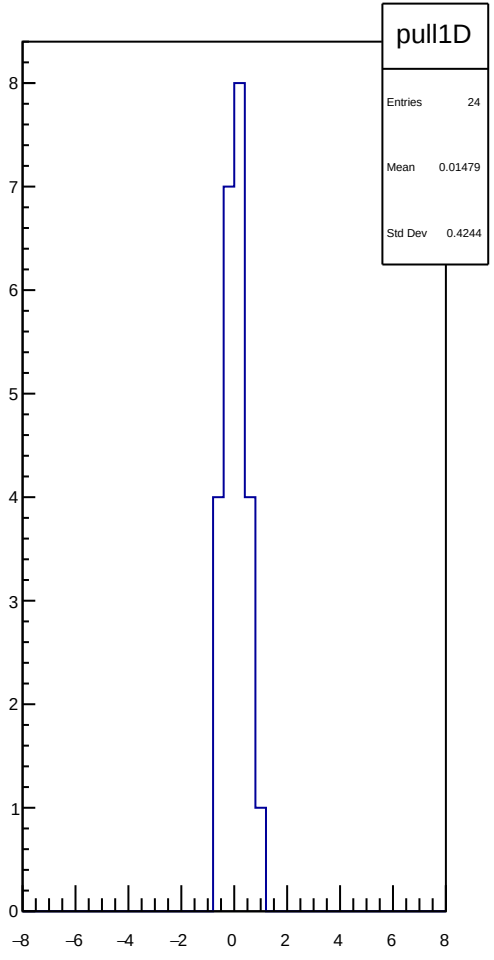

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2903 / 23
p0 194.6 ± 0.281
230
220
210
200
190
180
170
160
150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

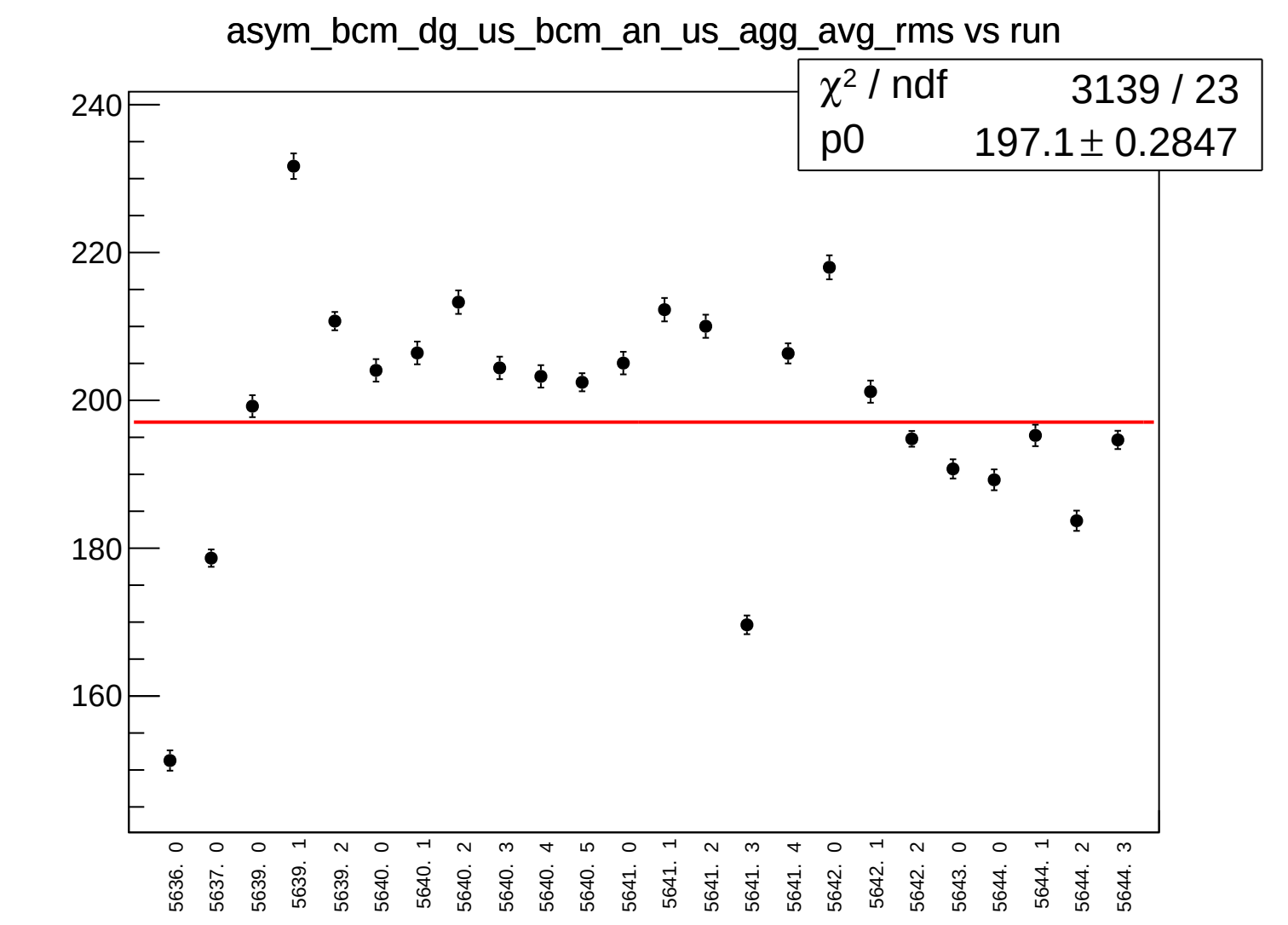

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 29.56 / 23
p0 −33.41 ± 37.16
600
400
200
0
−200
−400
−600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −83.21
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean 0.03408
Std Dev 1.109
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

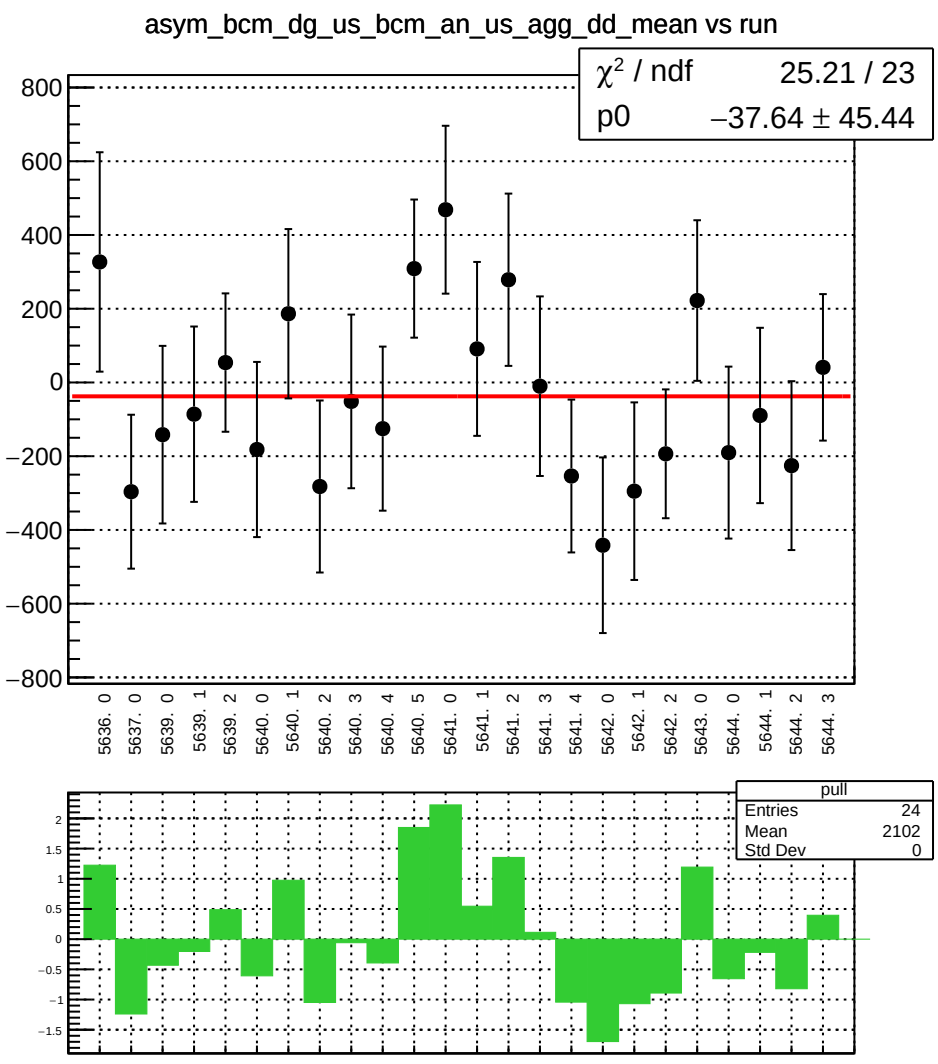

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1390 / 23
p0 18.22 ± 0.02627
21
20.5
20
19.5
19
18.5
18
17.5
17
16.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

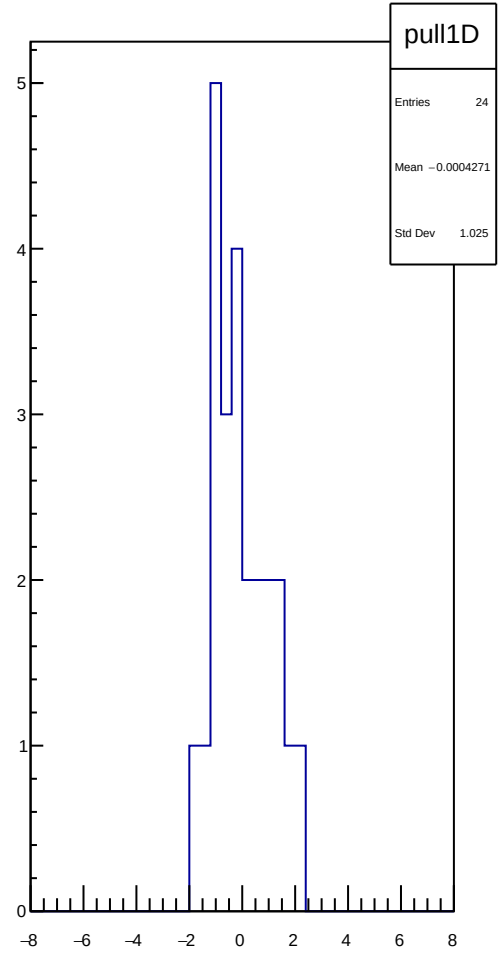

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 4.327 / 23
p0 −35.34 ± 402.6
4000
2000
0
−2000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

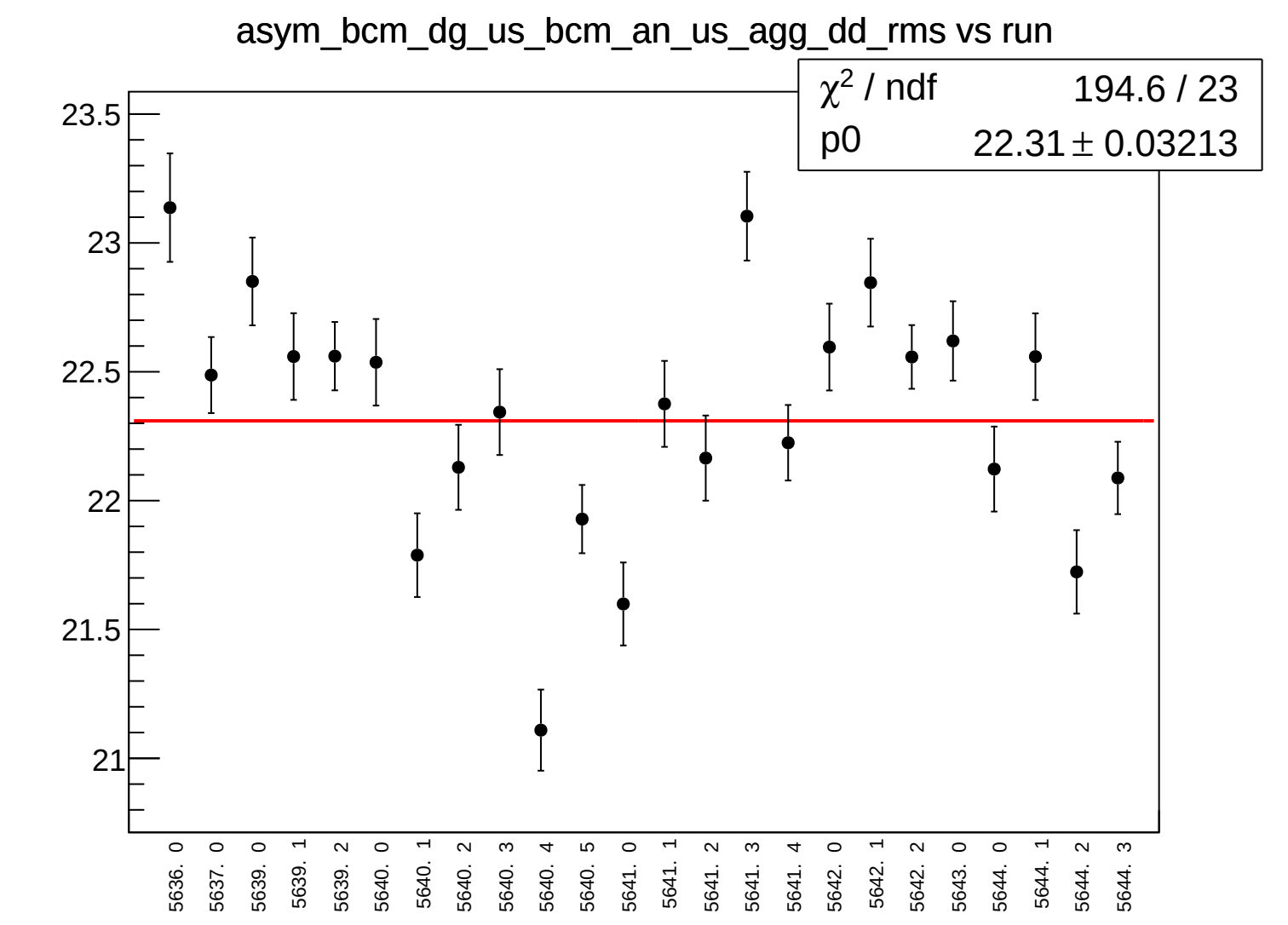

pull
Entries 24
Mean 18
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

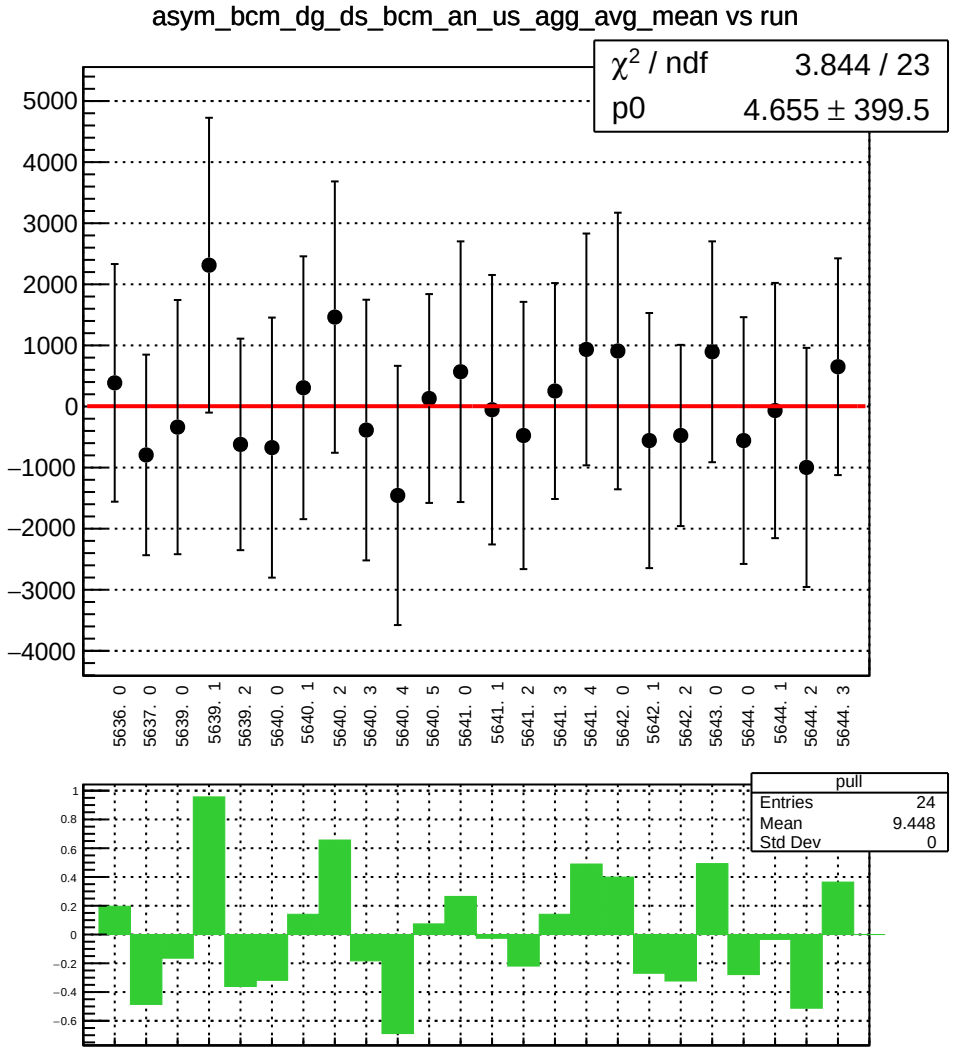

pull1D
Entries 24
Mean 0.01479
Std Dev 0.4244
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

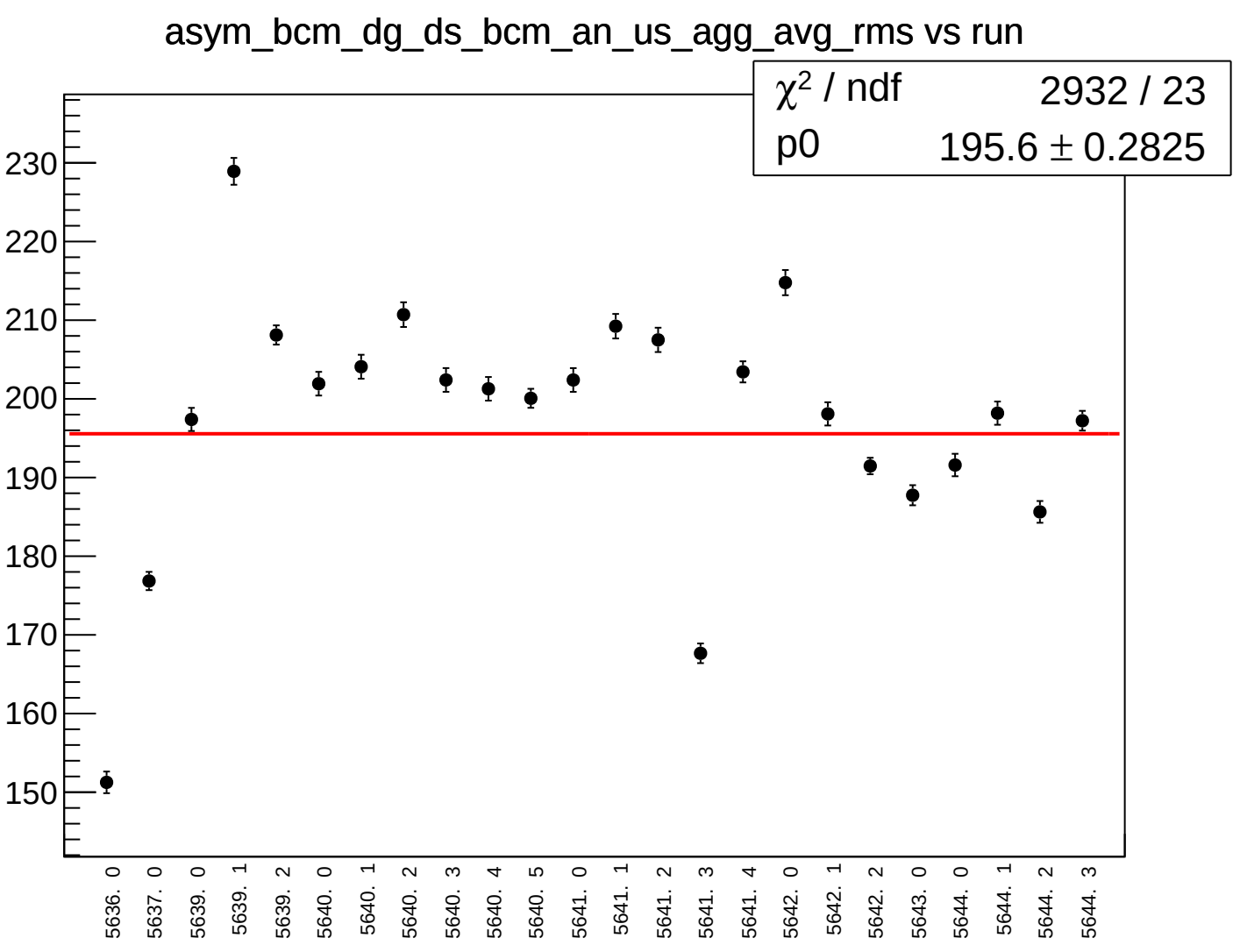

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3139 / 23
p0 197.1 ± 0.2847
240
220
200
180
160
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 25.21 / 23
p0 −37.64 ± 45.44
800
600
400
200
0
−200
−400
−600
−800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 2102
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean −0.0004271
Std Dev 1.025
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 194.6 / 23
p0 22.31 ± 0.03213
23.5
23
22.5
22
21.5
21
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 3.844 / 23
p0 4.655 ± 399.5
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 9.448
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 24
Mean 0.01304
Std Dev 0.4
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2932 / 23
p0 195.6 ± 0.2825
230
220
210
200
190
180
170
160
150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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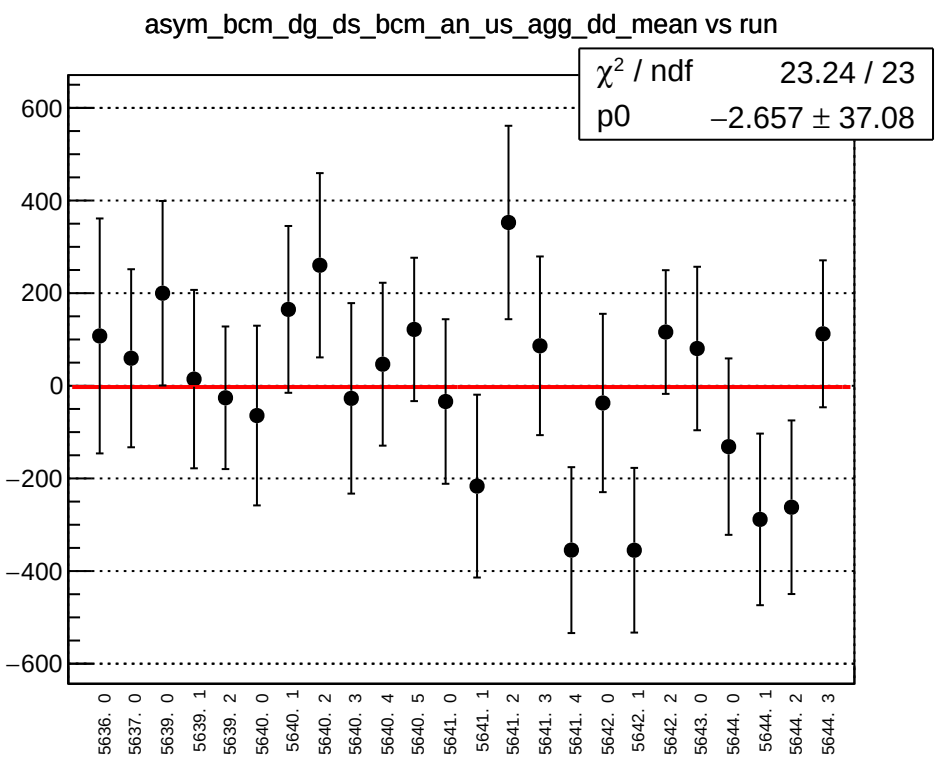
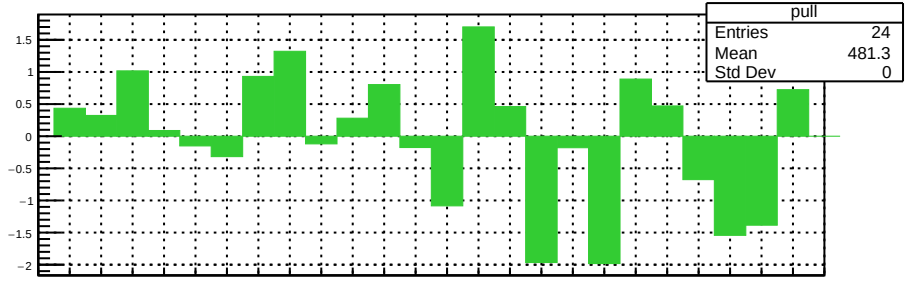
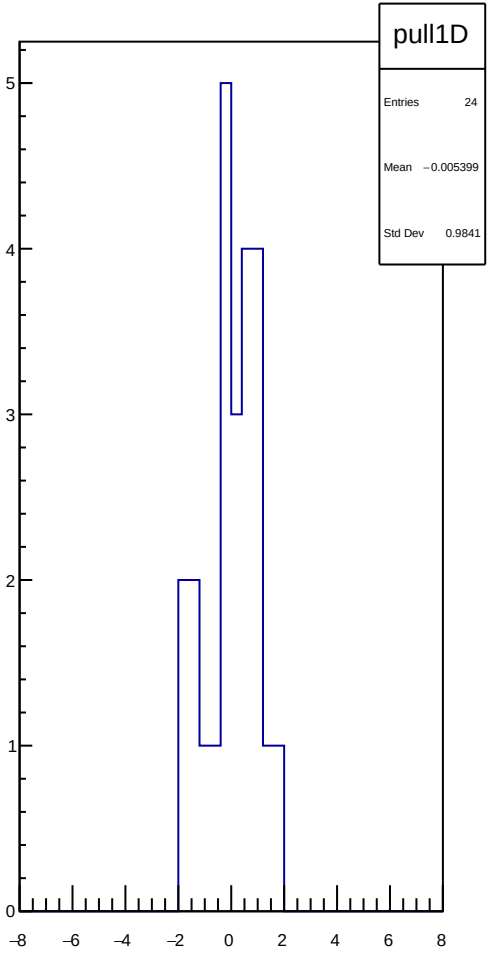
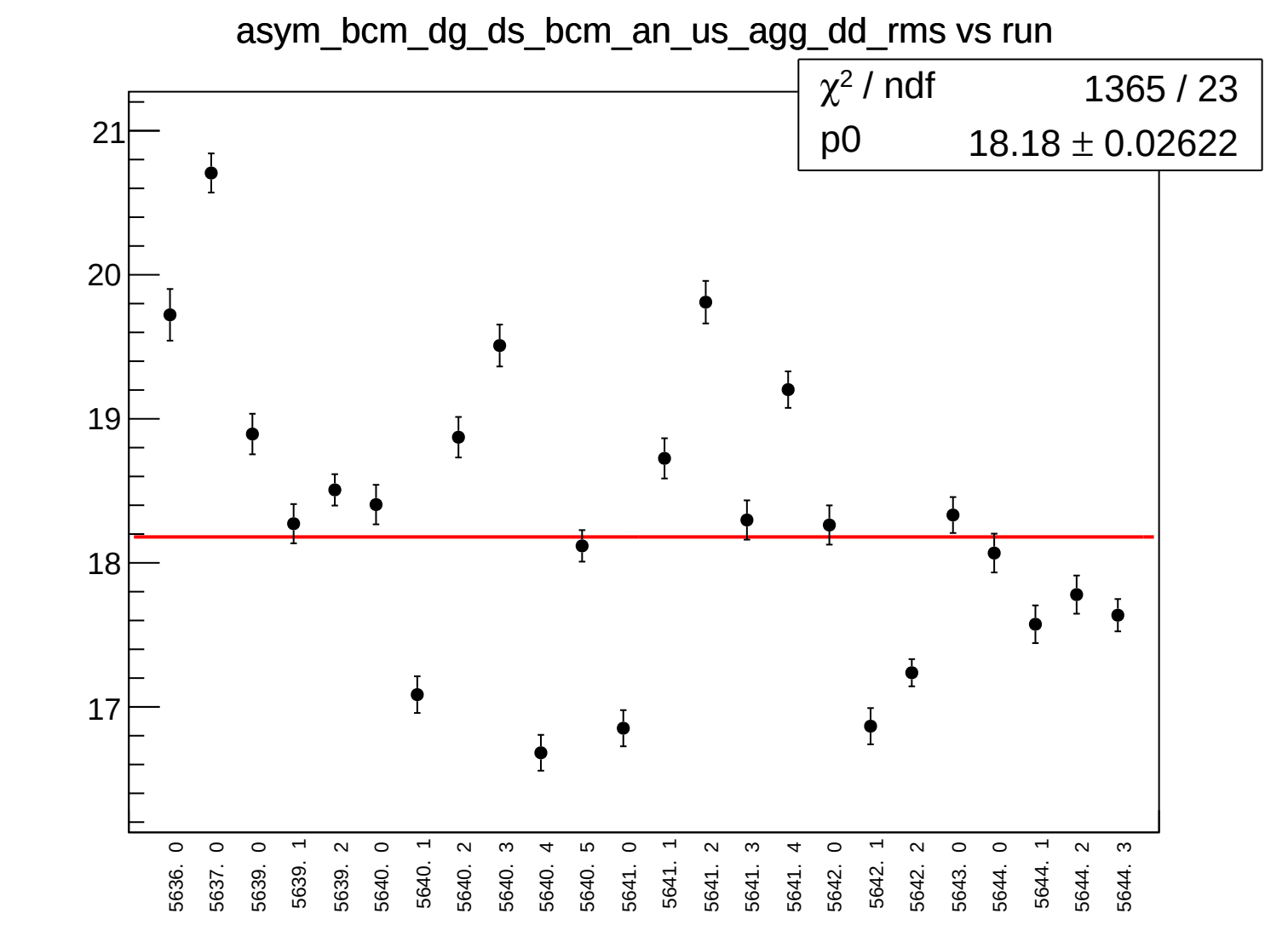
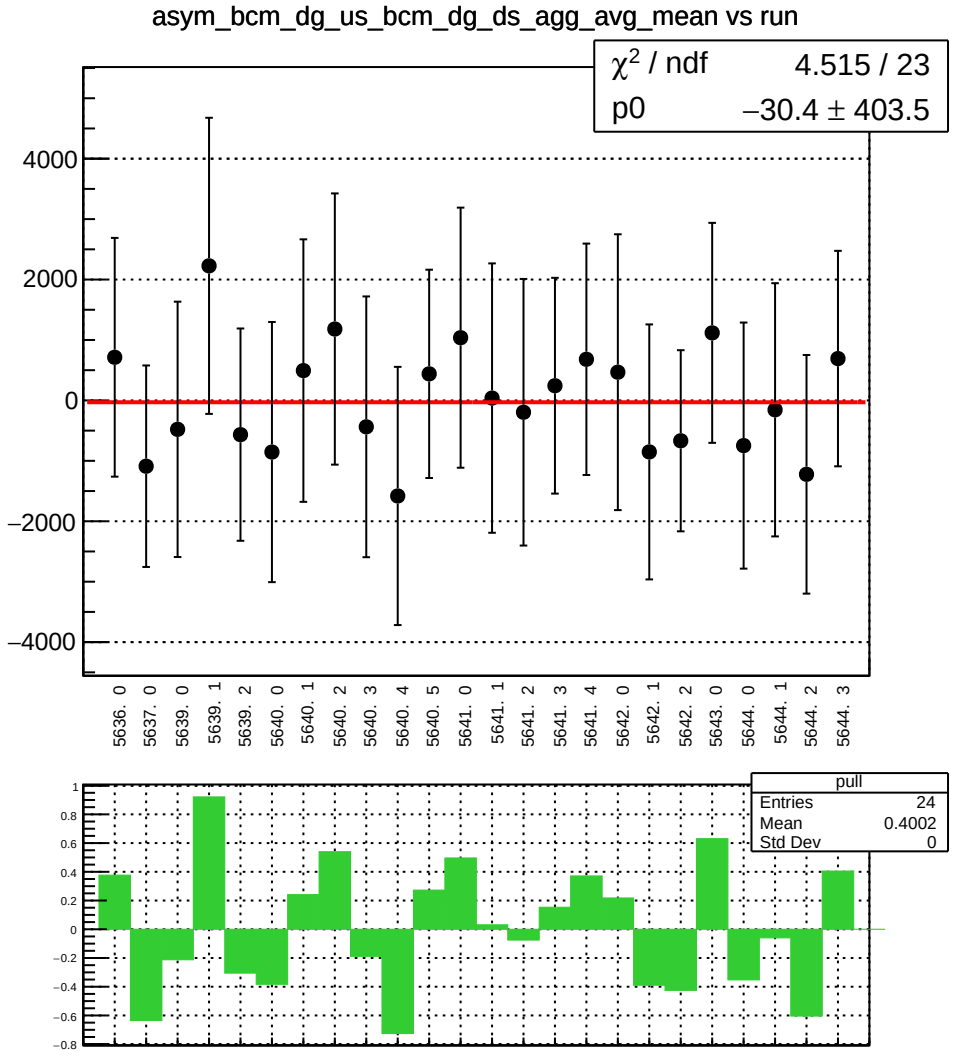
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

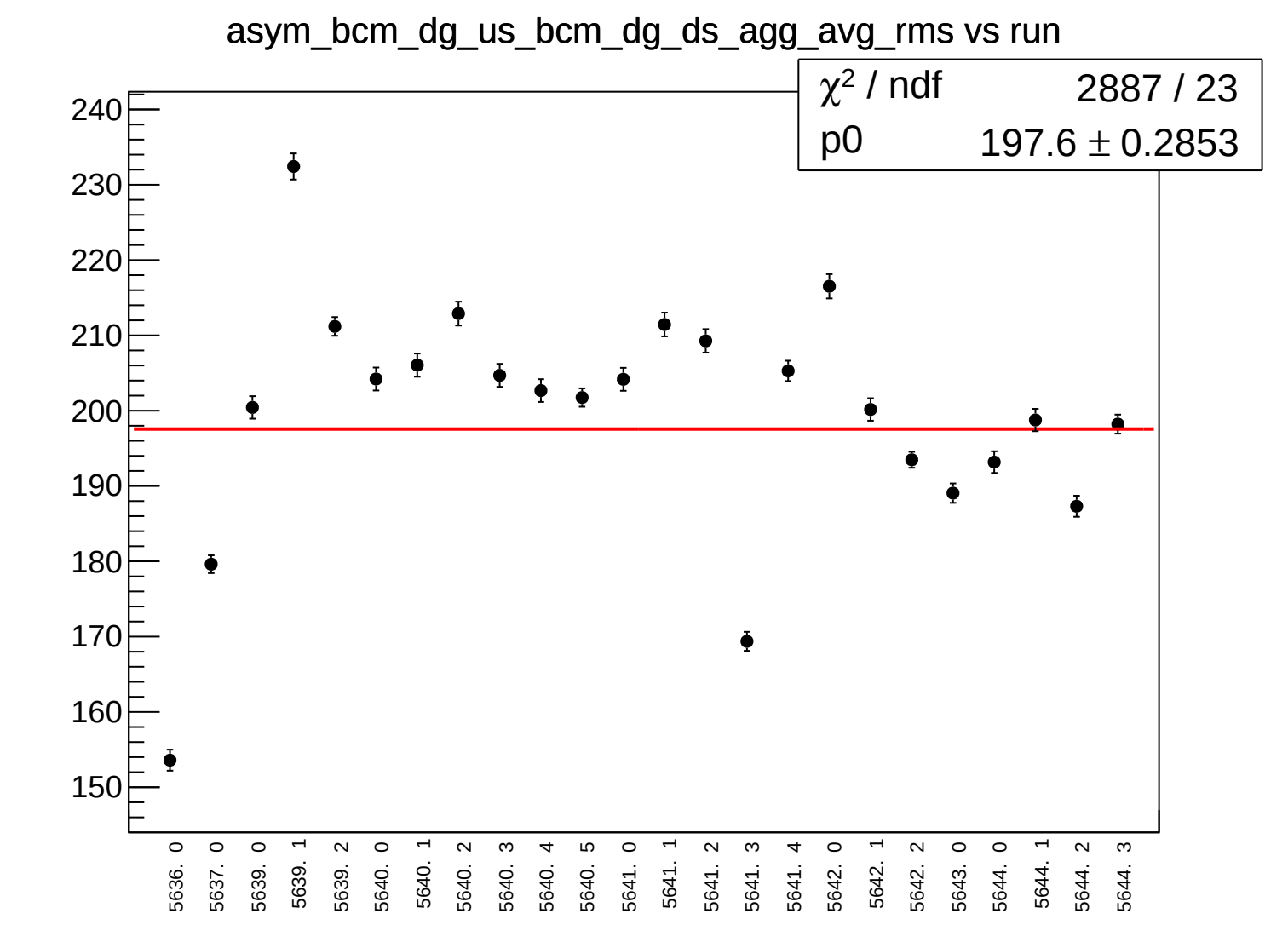

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 23.24 / 23
p0 −2.657 ± 37.08
600
400
200
0
−200
−400
−600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

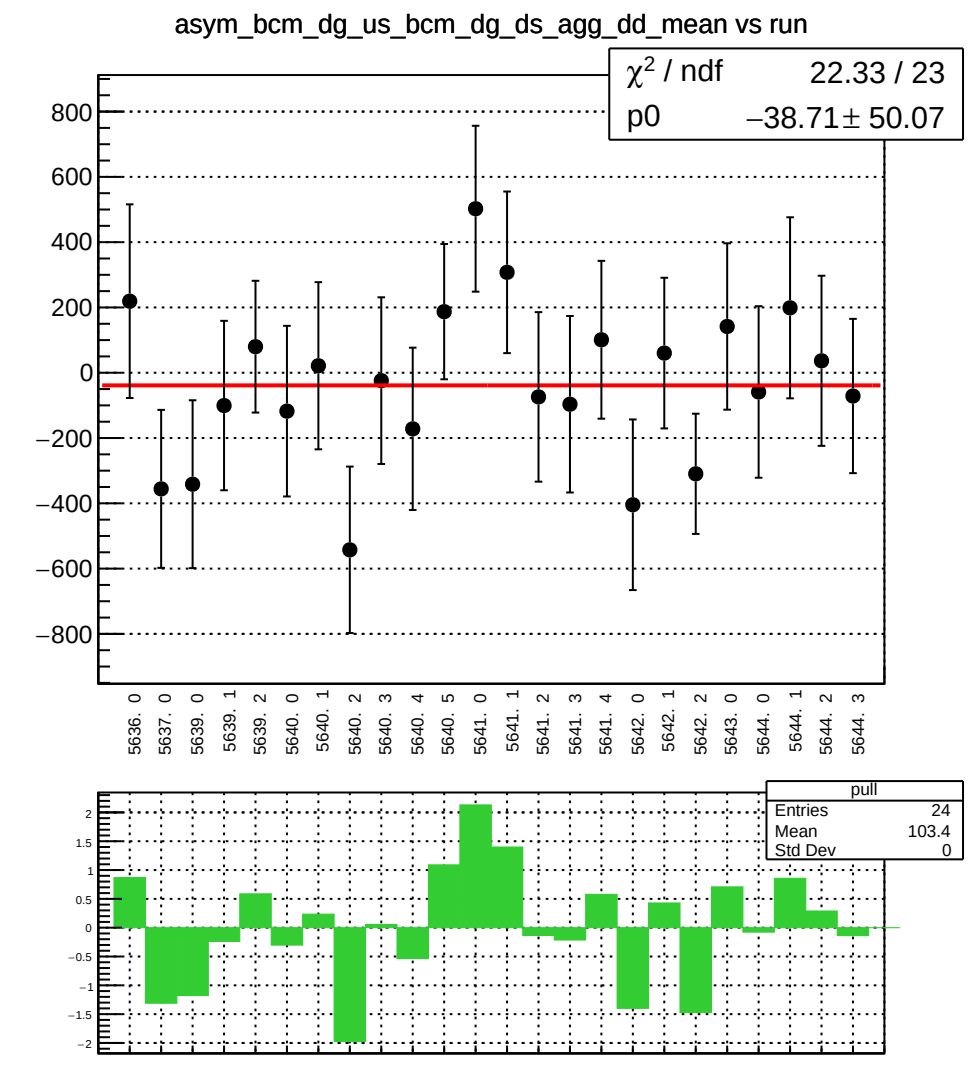

pull
Entries 24
Mean 481.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

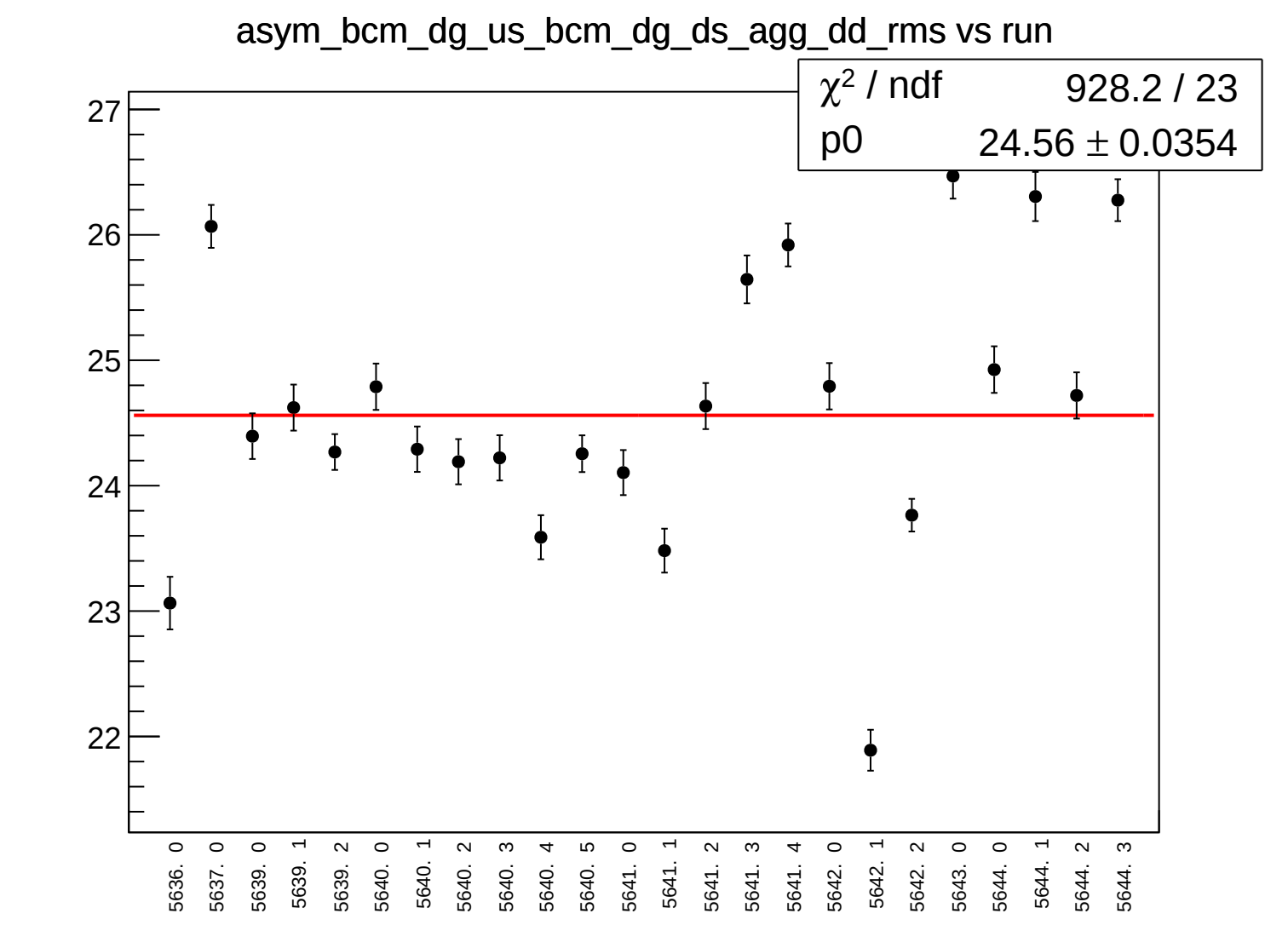

pull1D
Entries 24
Mean −0.005399
Std Dev 0.9841
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

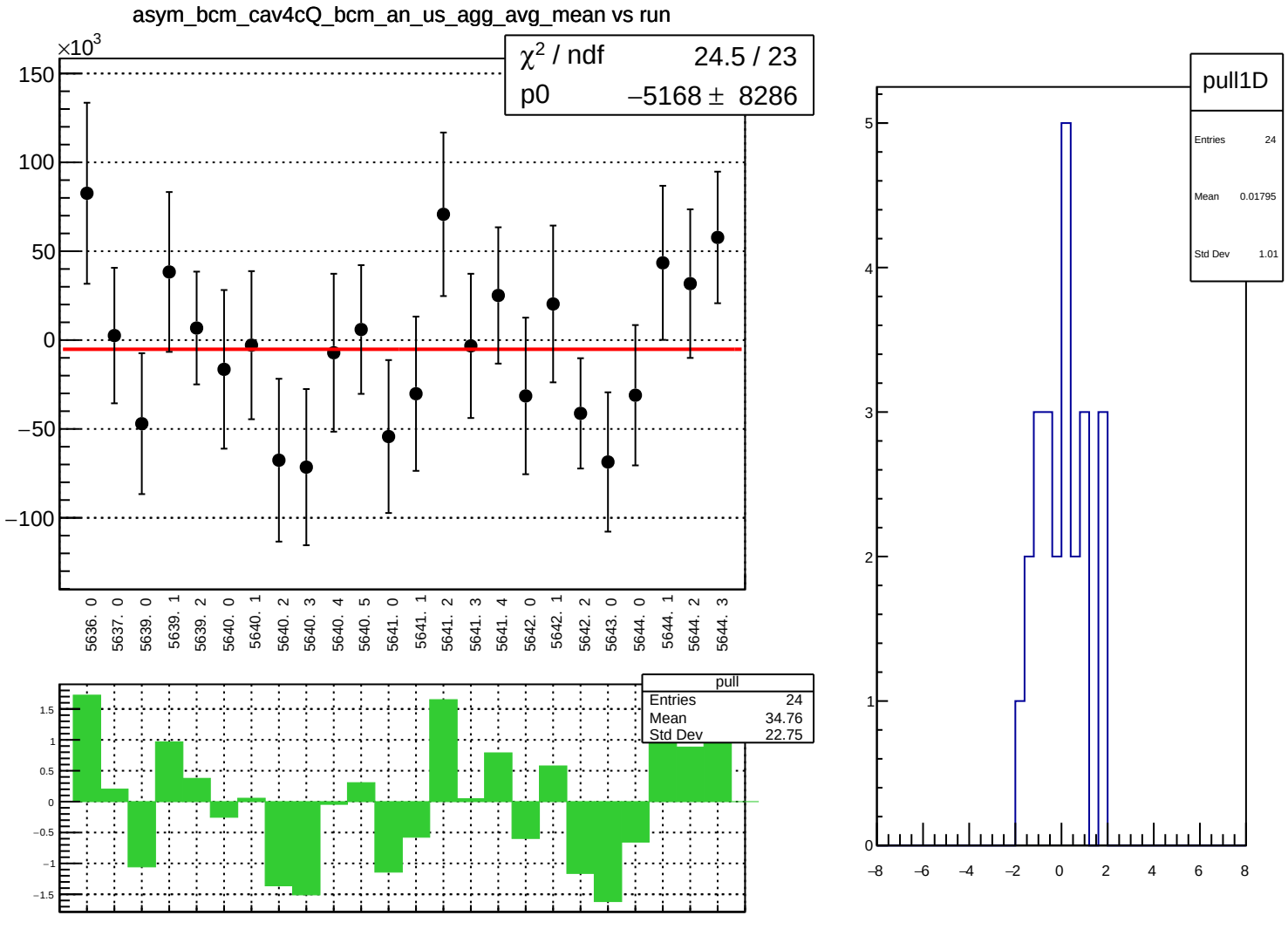

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1365 / 23
p0 18.18 ± 0.02622
21
20
19
18
17
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

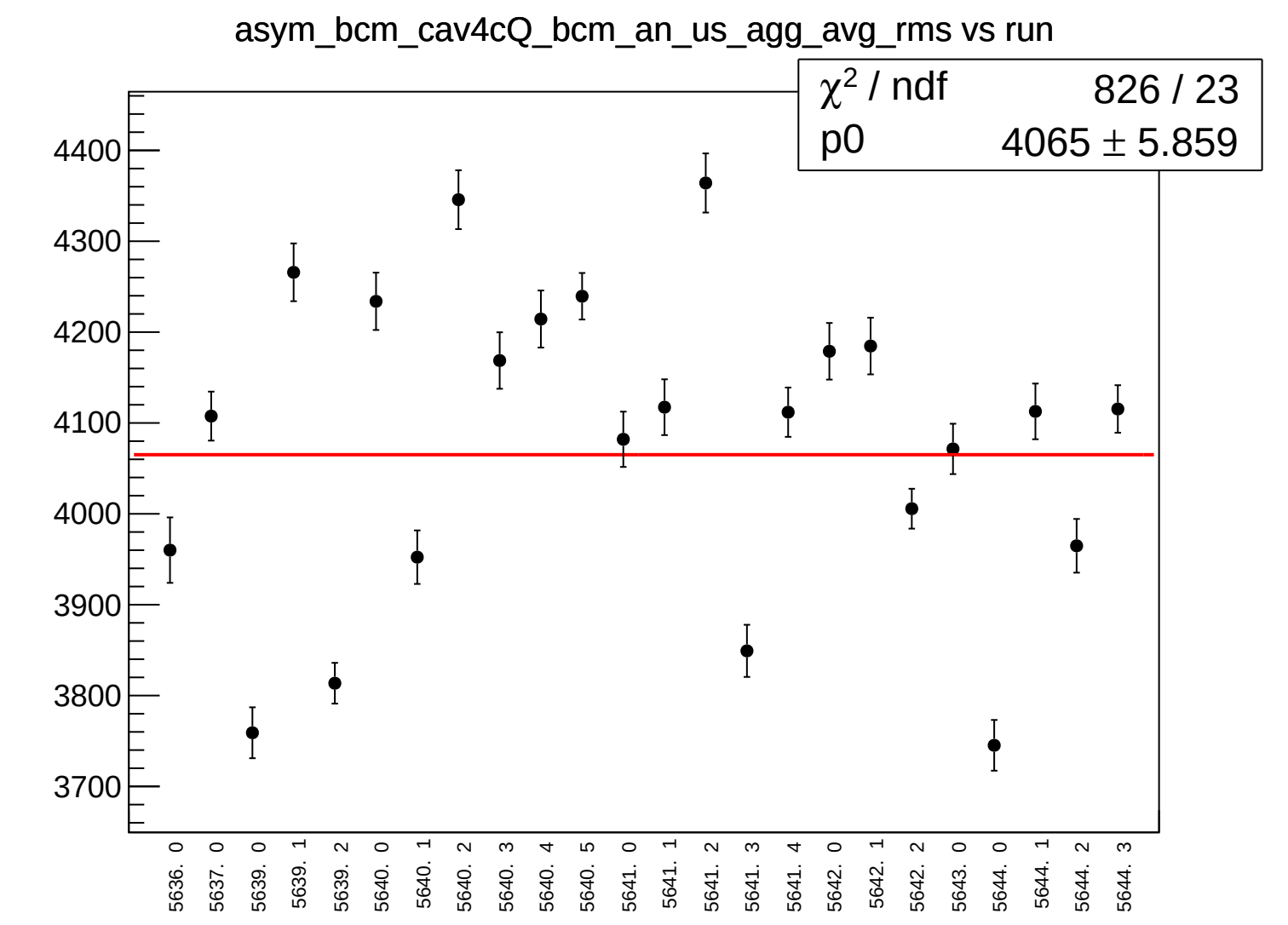

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 4.515 / 23
p0 −30.4 ± 403.5
4000
2000
0
−2000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 0.4002
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean 0.01256
Std Dev 0.4335
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

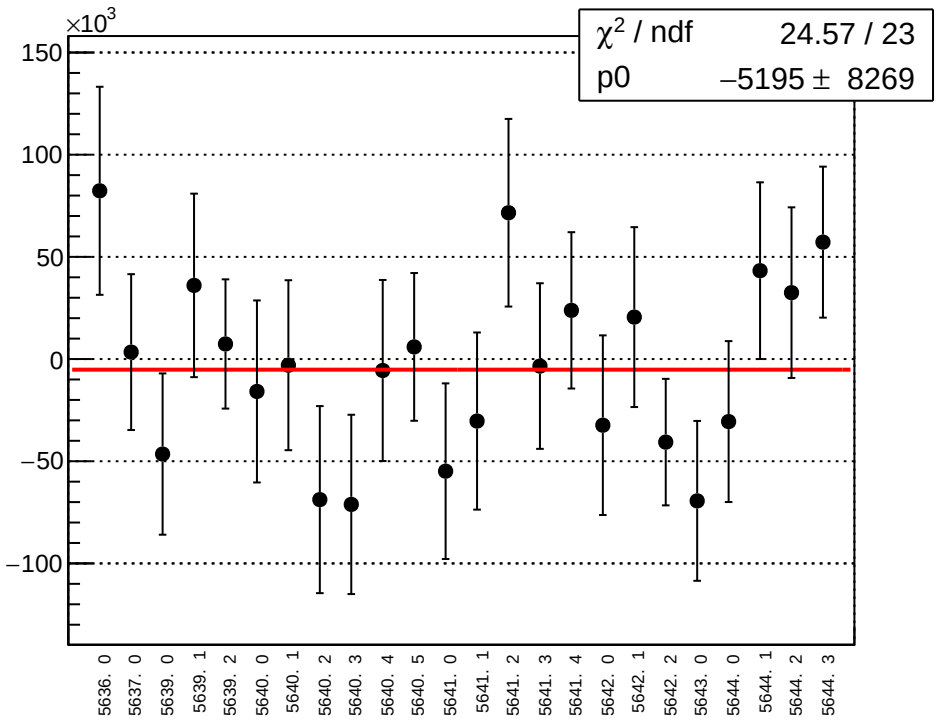

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2887 / 23
p0 197.6 ± 0.2853
240
230
220
210
200
190
180
170
160
150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

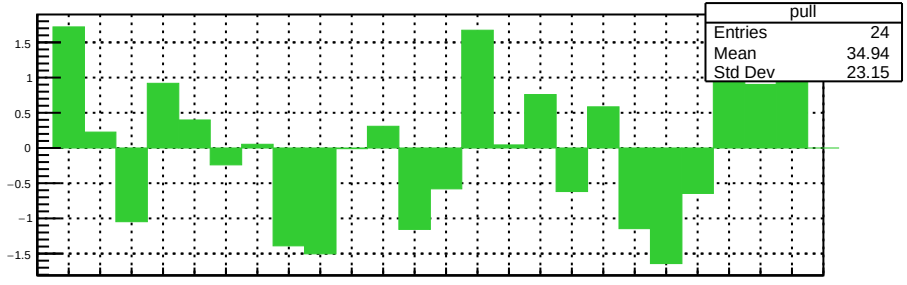

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 22.33 / 23
p0 −38.71 ± 50.07
800
600
400
200
0
−200
−400
−600
−800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 103.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.01062
Std Dev 0.9646
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

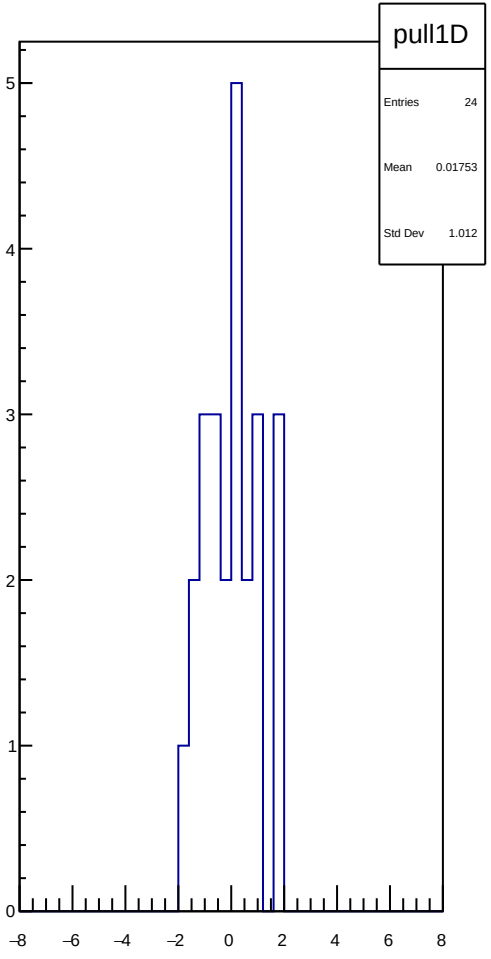

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 928.2 / 23
p0 24.56 ± 0.0354
27
26
25
24
23
22
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

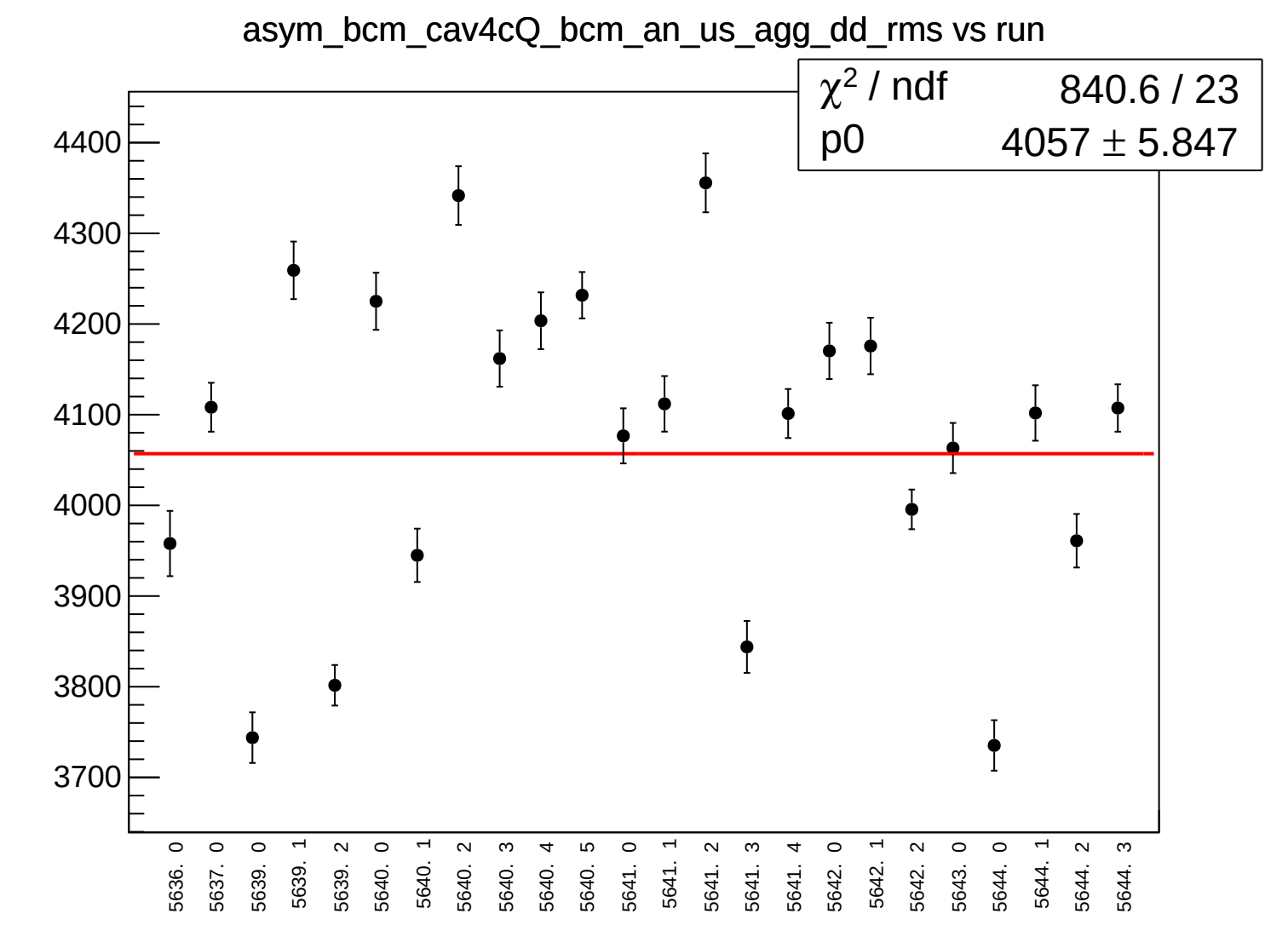

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
×10^3
χ² / ndf 24.5 / 23
p0 −5168 ± 8286
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 34.76
Std Dev 22.75
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.01795
Std Dev 1.01
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

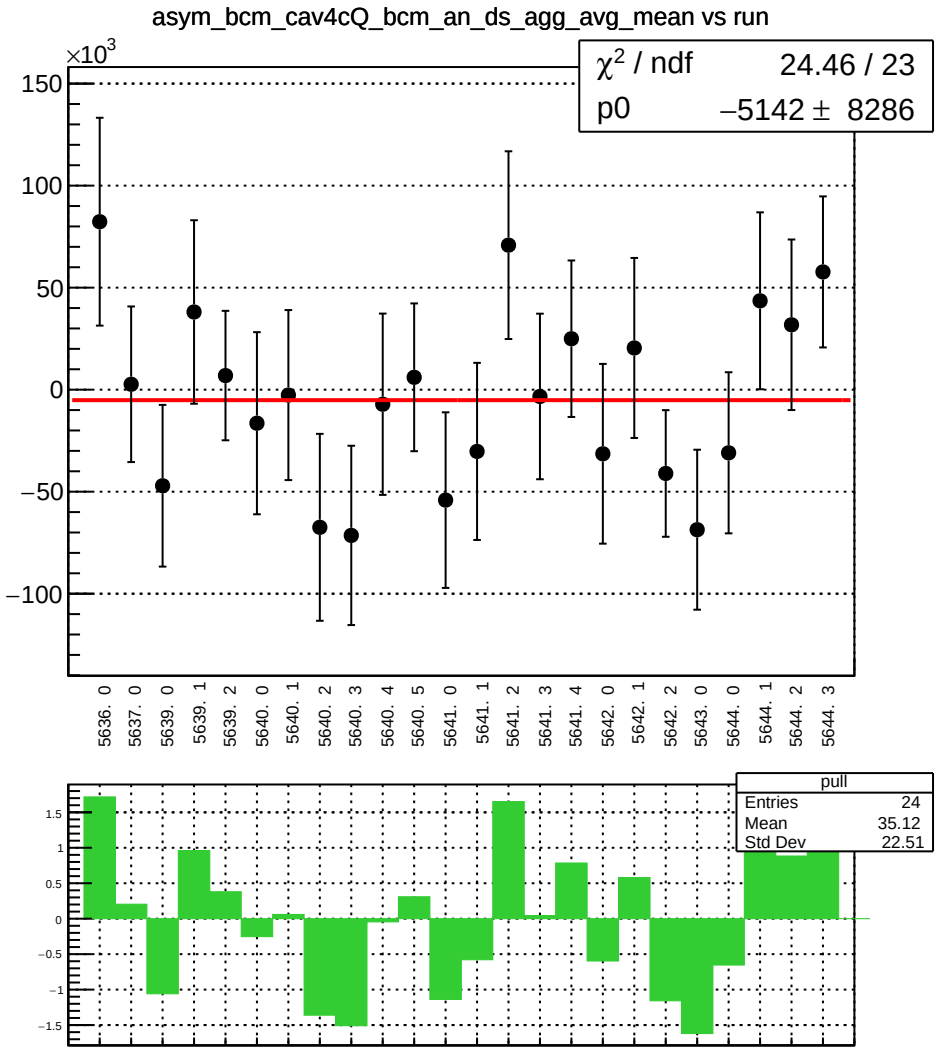

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 826 / 23
p0 4065 ± 5.859
4400
4300
4200
4100
4000
3900
3800
3700
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

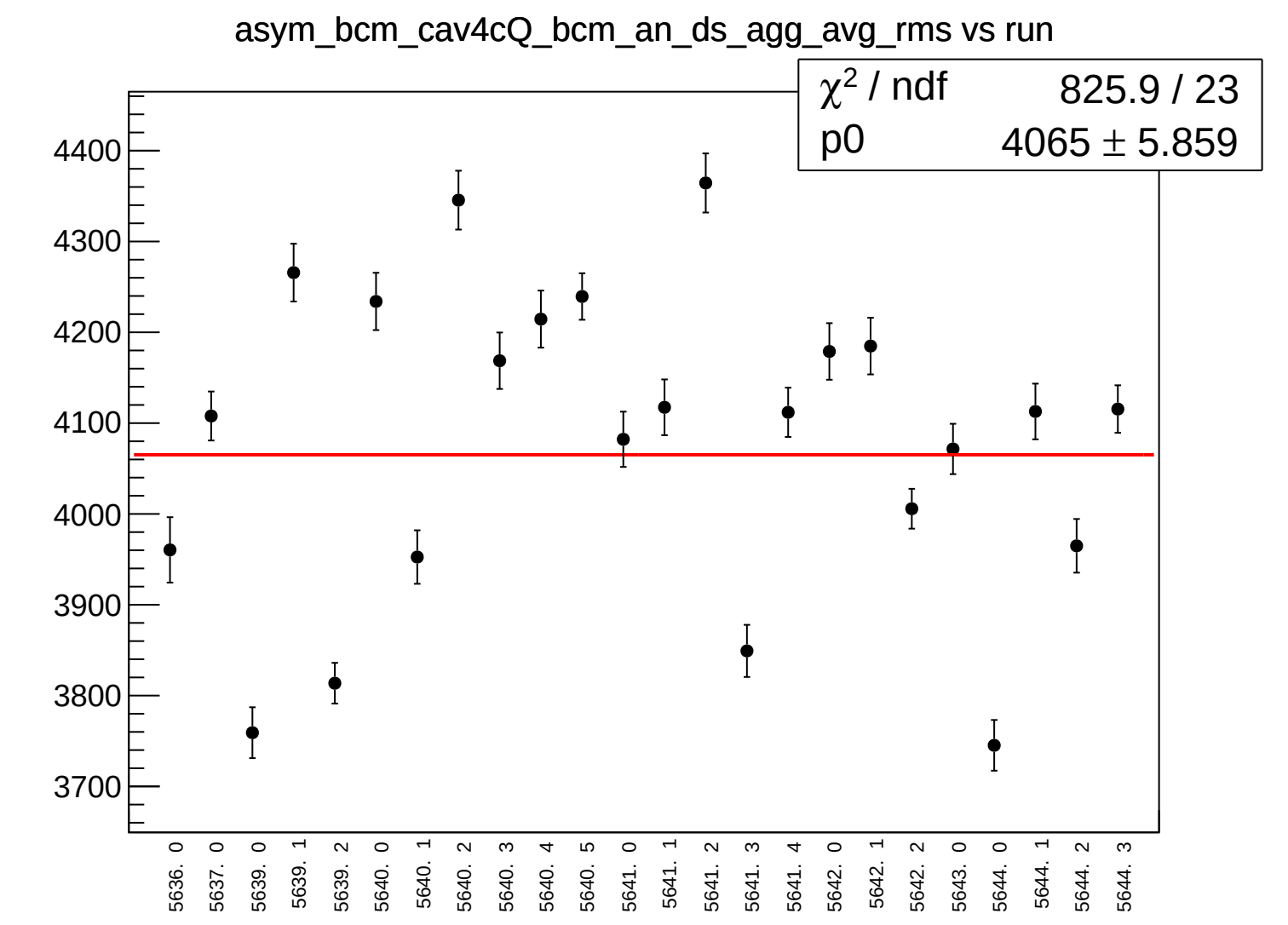

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
×10^3
χ² / ndf 24.57 / 23
p0 −5195 ± 8269
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

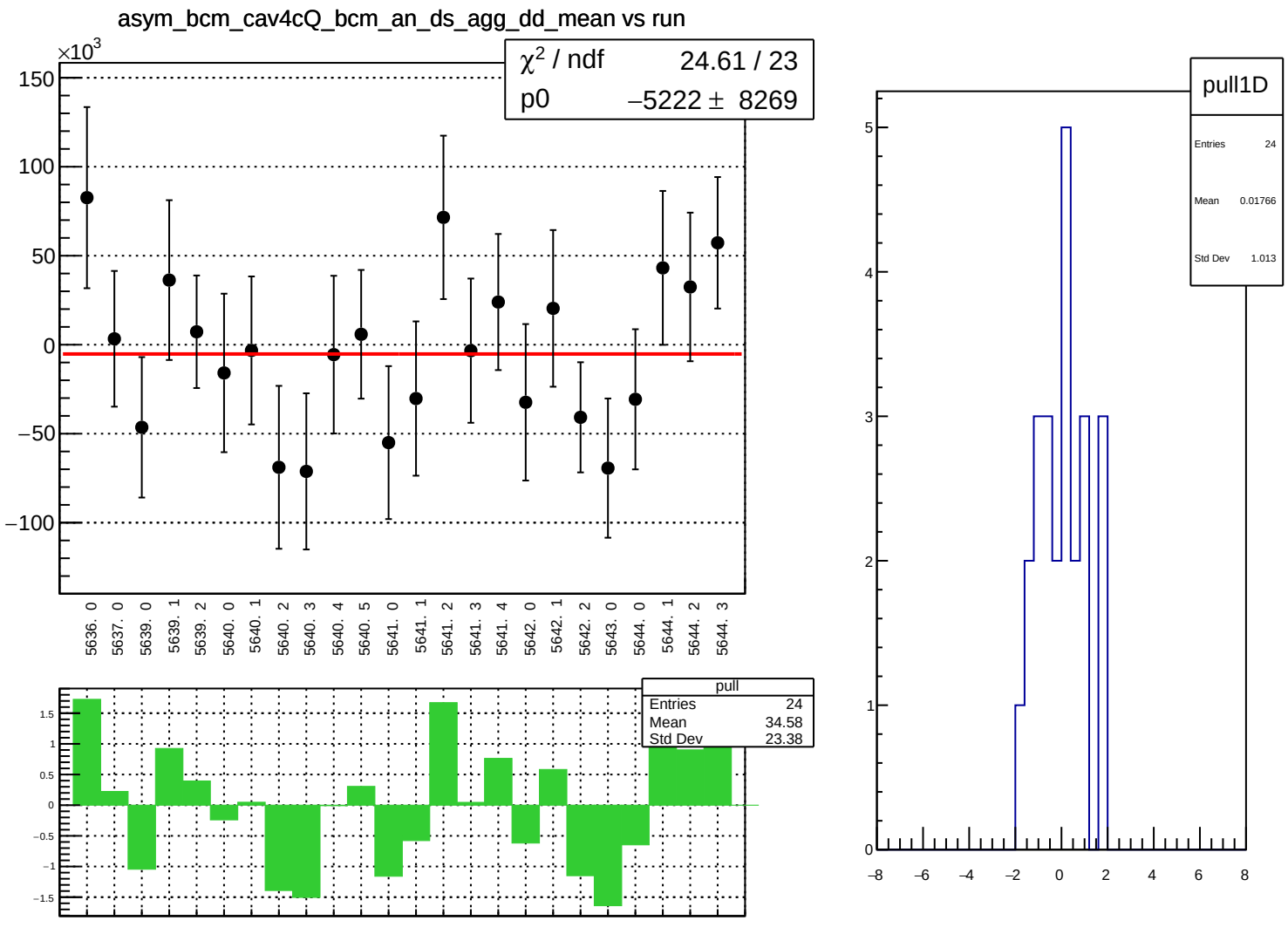

pull
Entries 24
Mean 34.94
Std Dev 23.15
1.5
1
0.5
0
−0.5
−1
−1.5

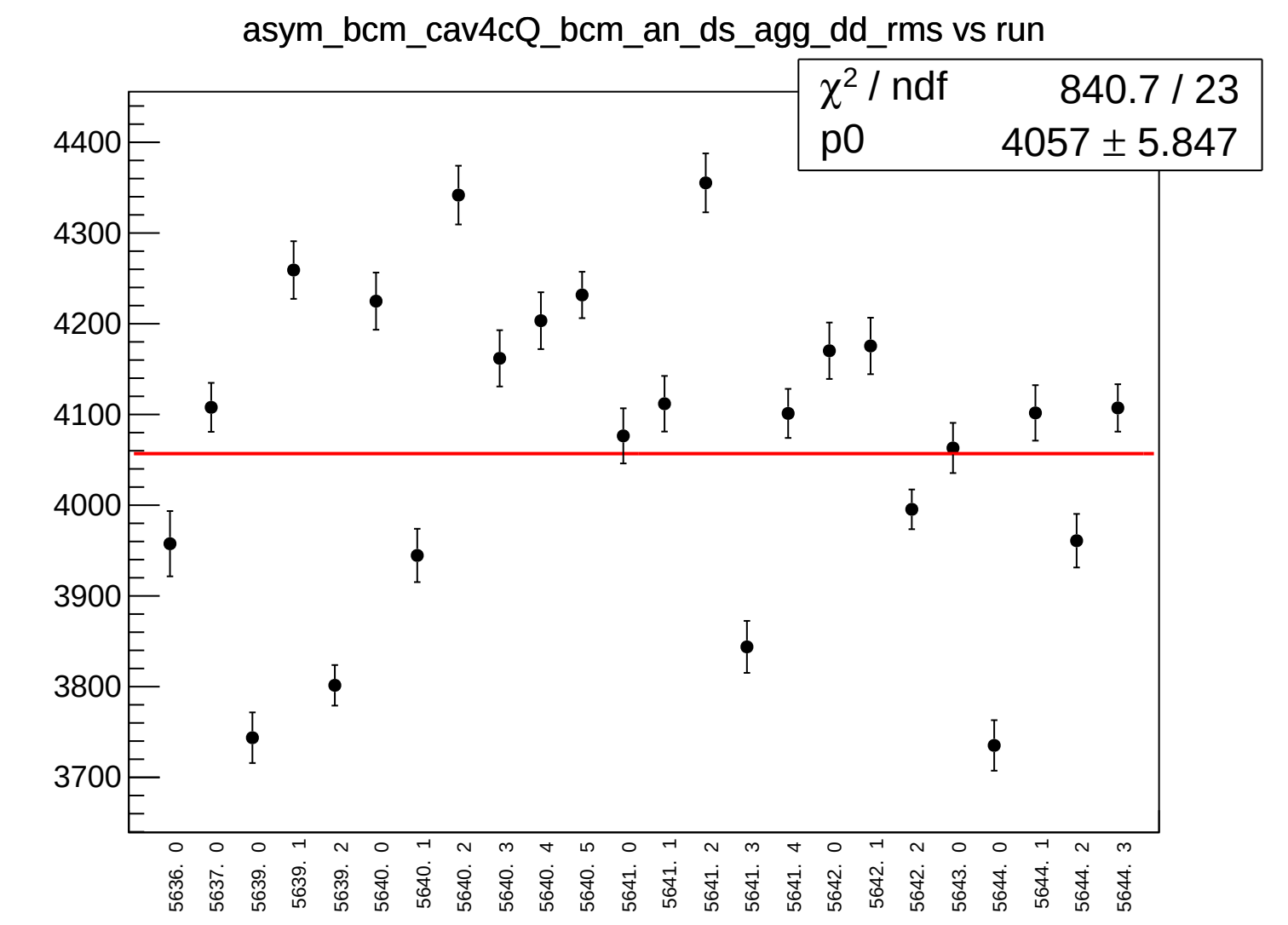

pull1D
Entries 24
Mean 0.01753
Std Dev 1.012
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

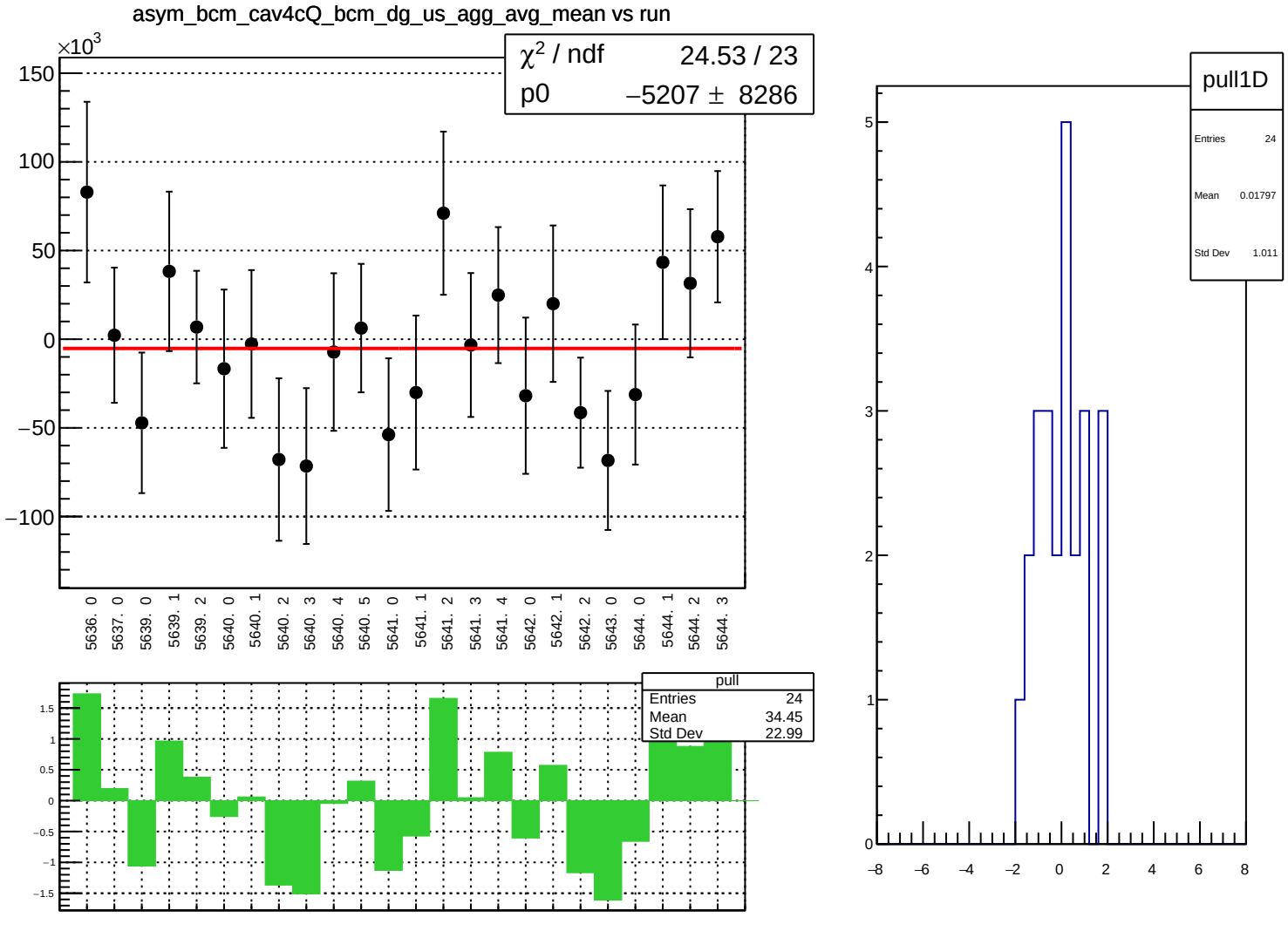

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 840.6 / 23
p0 4057 ± 5.847
4400
4300
4200
4100
4000
3900
3800
3700
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

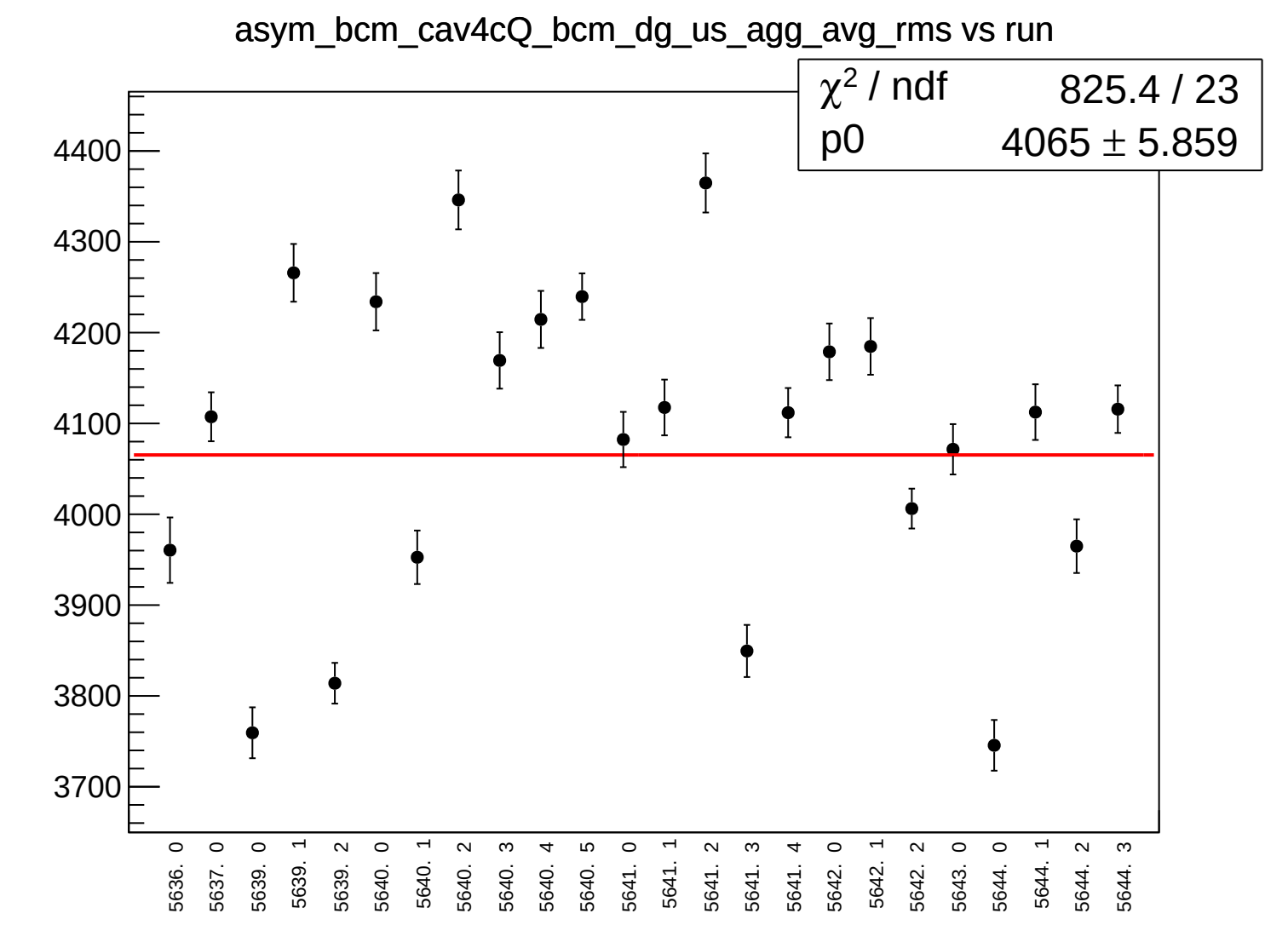

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
×10^3
χ² / ndf 24.46 / 23
p0 −5142 ± 8286
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 35.12
Std Dev 22.51
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.01782
Std Dev 1.009
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

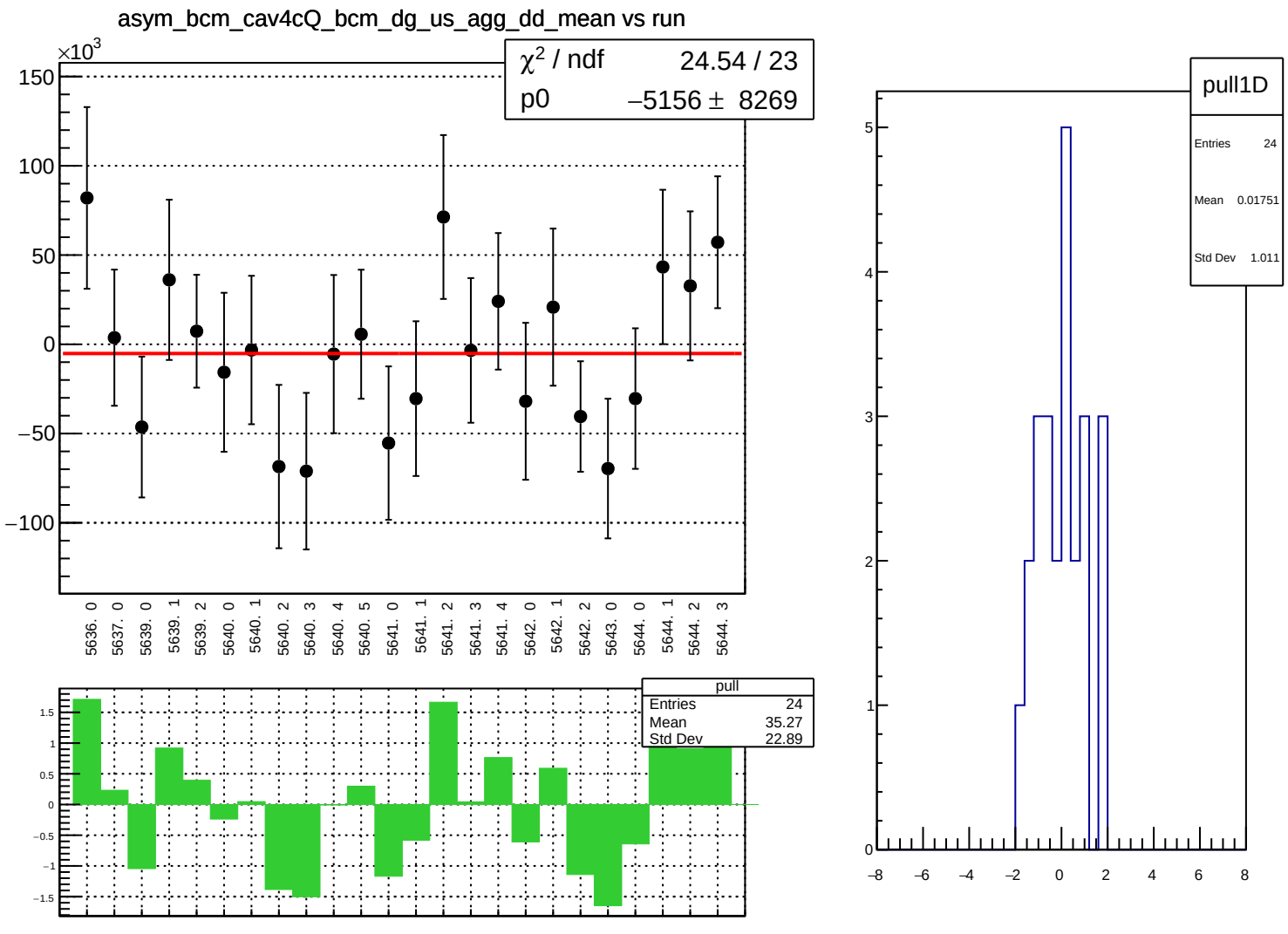

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 825.9 / 23
p0 4065 ± 5.859
4400
4300
4200
4100
4000
3900
3800
3700
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

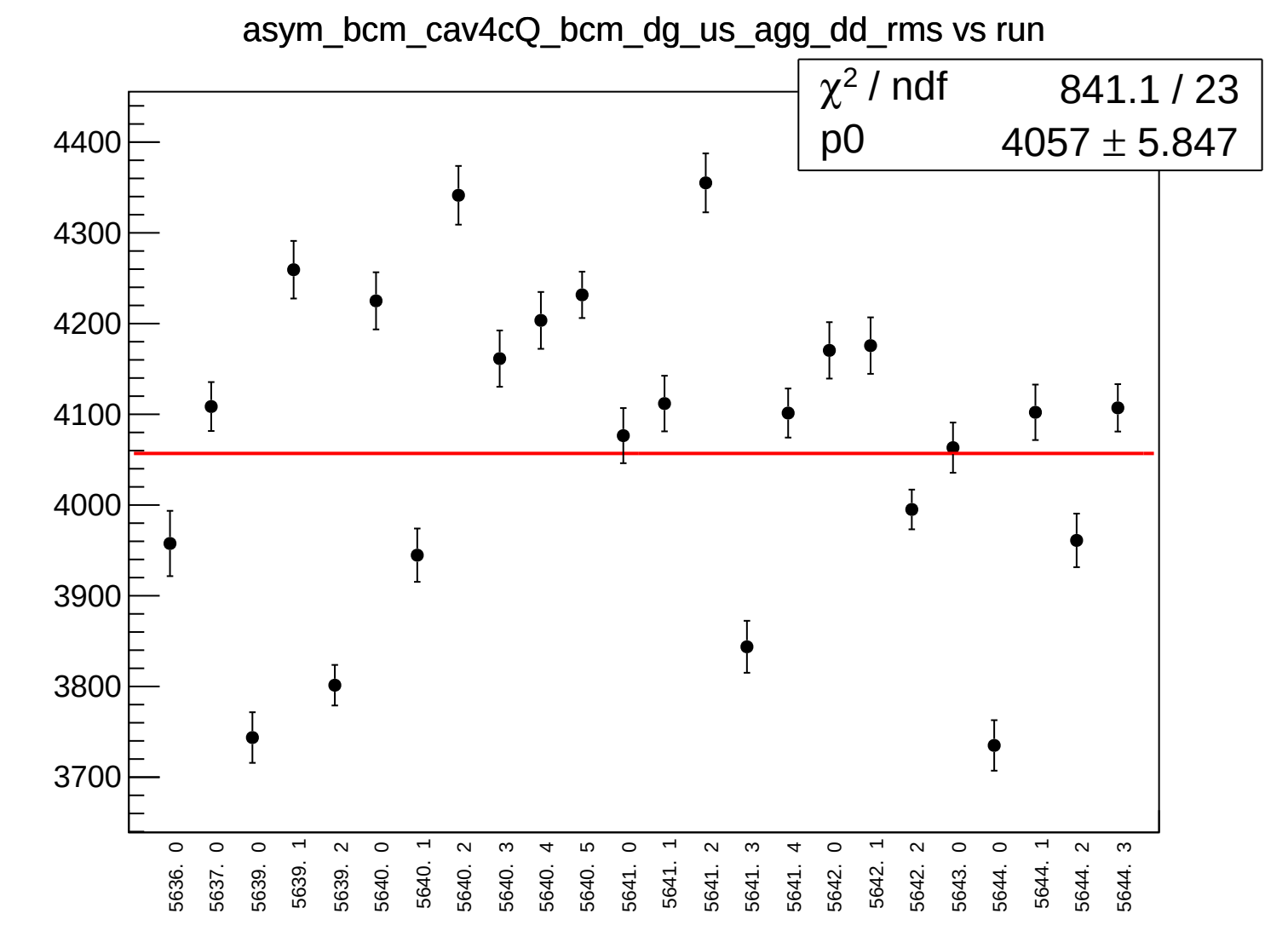

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
×10^3
χ² / ndf 24.61 / 23
p0 −5222 ± 8269
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 34.58
Std Dev 23.38
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.01766
Std Dev 1.013
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

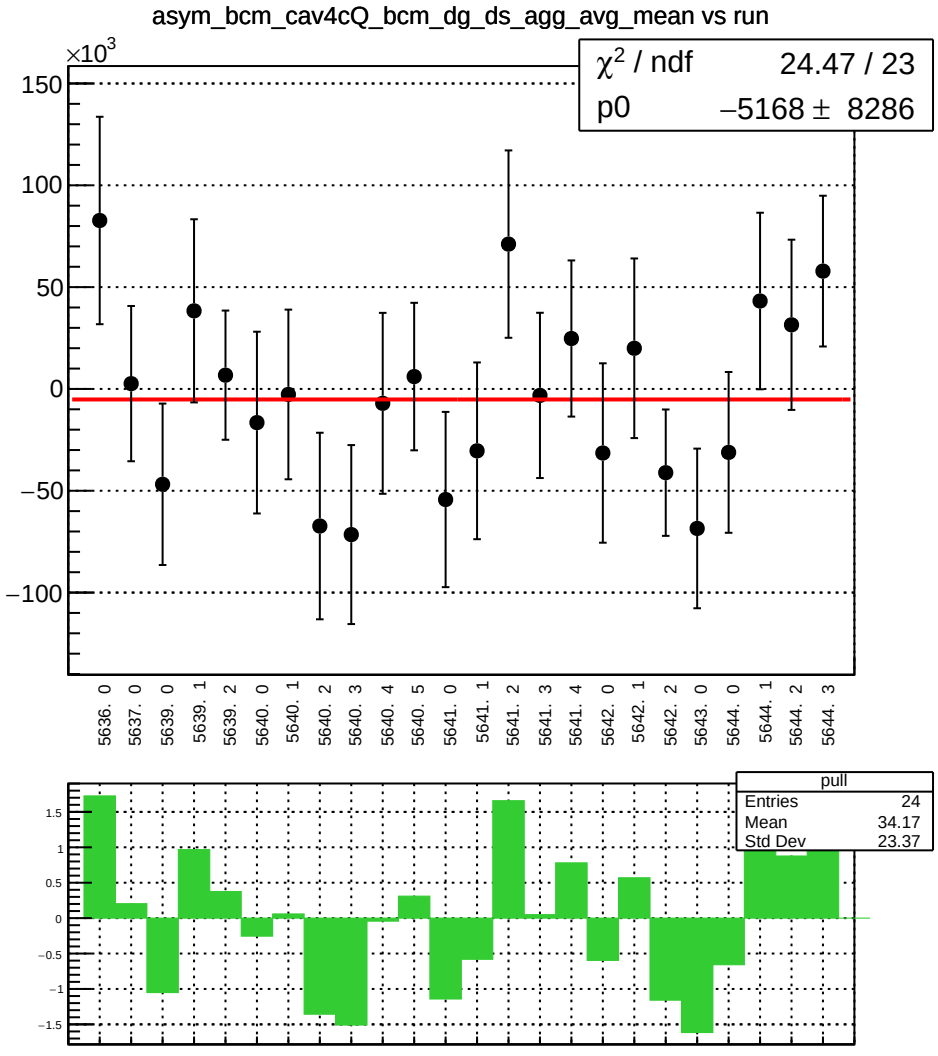

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 840.7 / 23
p0 4057 ± 5.847
4400
4300
4200
4100
4000
3900
3800
3700
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

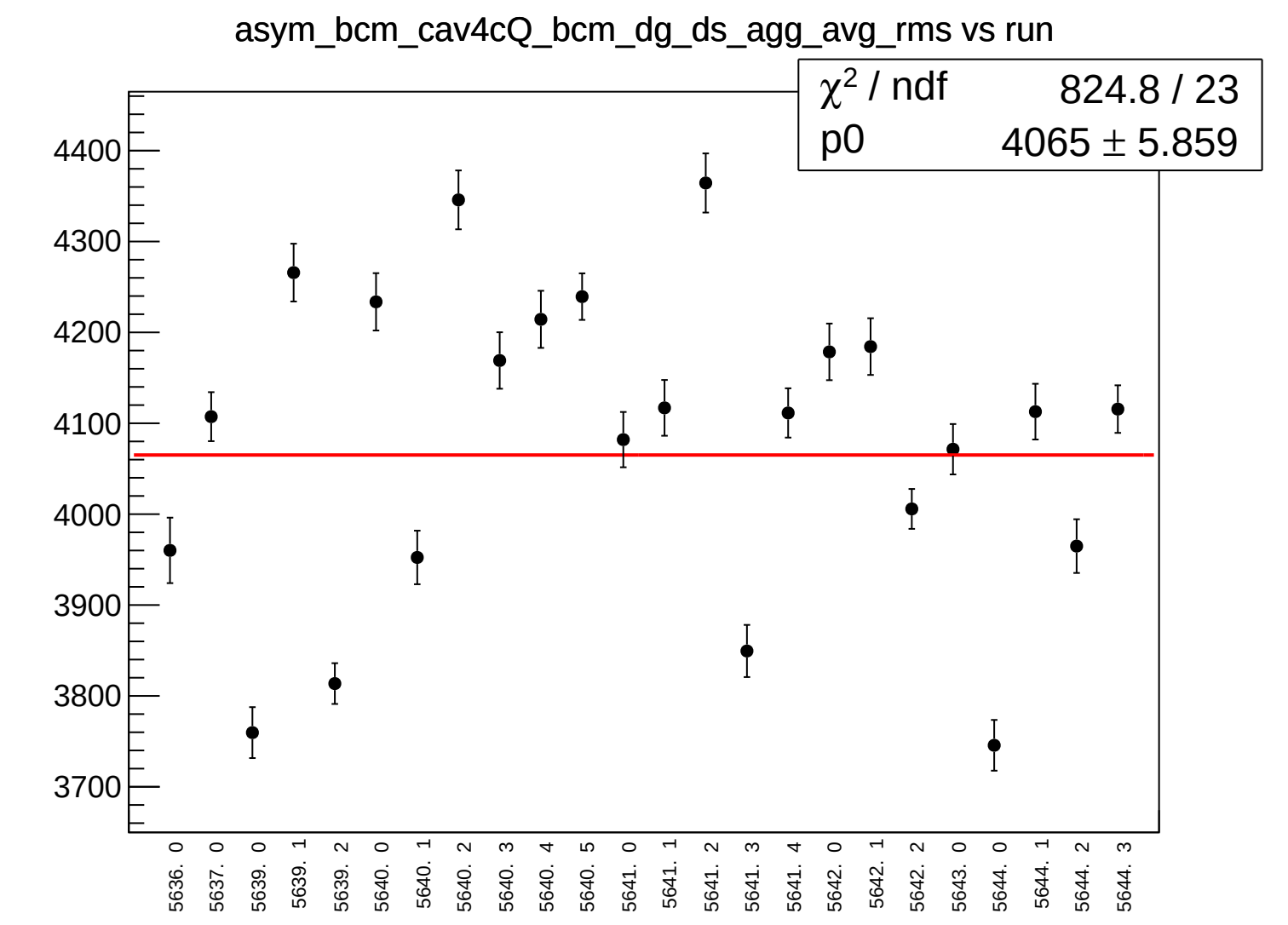

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
×10^3
χ^2 / ndf 24.53 / 23
p0 −5207 ± 8286
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 34.45
Std Dev 22.99
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.01797
Std Dev 1.011
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

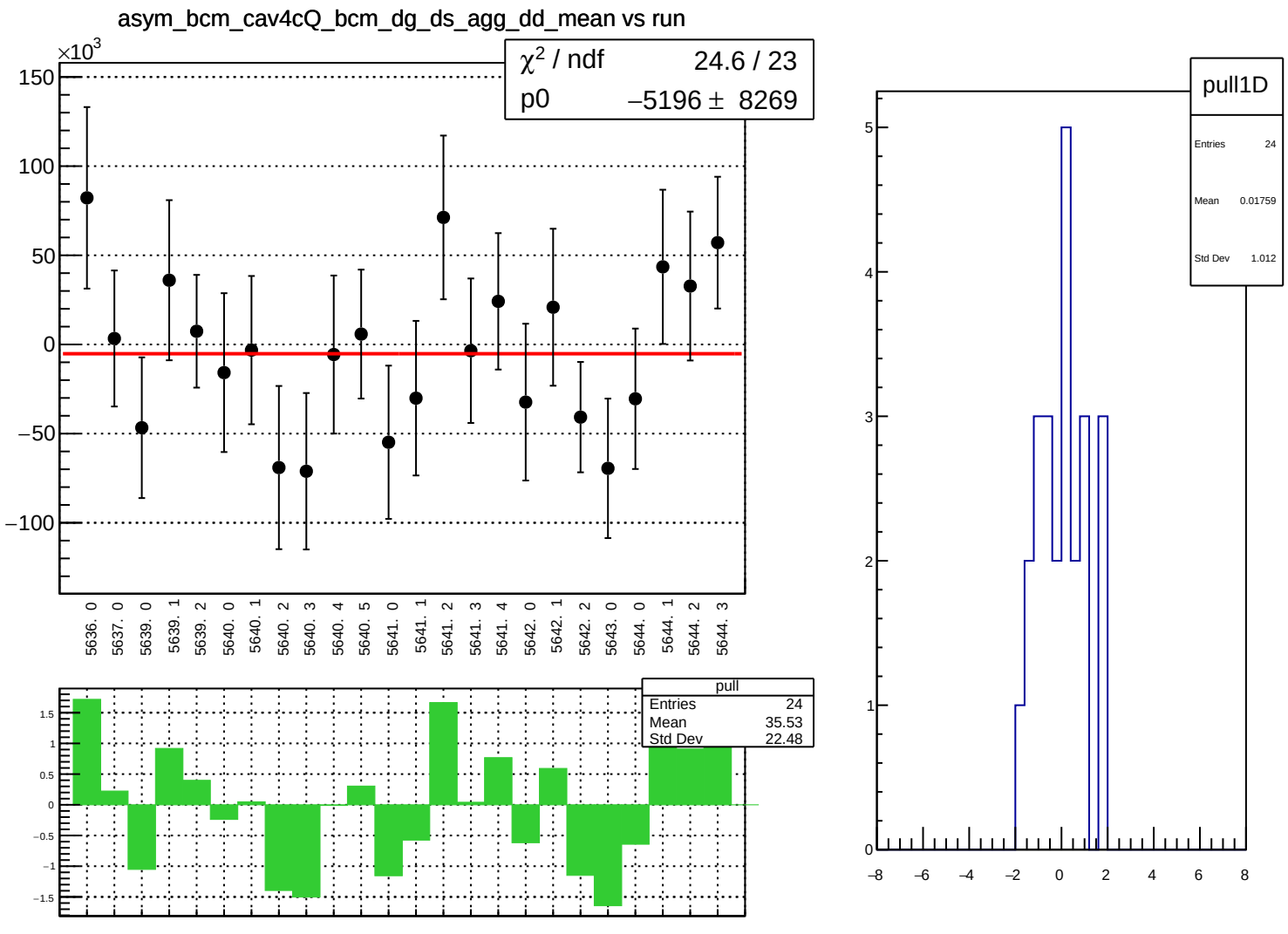

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 825.4 / 23
p0 4065 ± 5.859
4400
4300
4200
4100
4000
3900
3800
3700
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

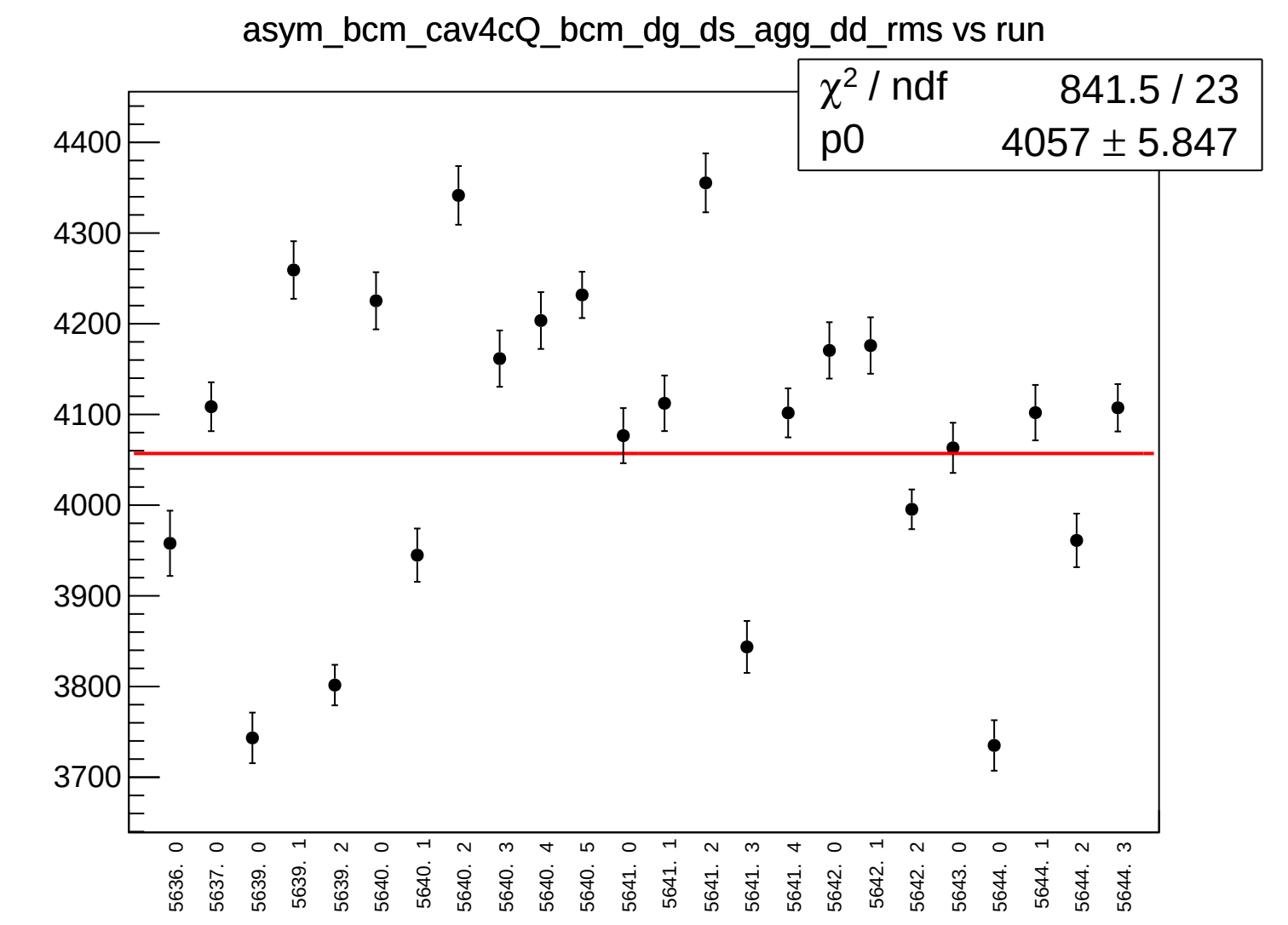

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
×10^3
χ^2 / ndf 24.54 / 23
p0 −5156 ± 8269
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 35.27
Std Dev 22.89
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.01751
Std Dev 1.011
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

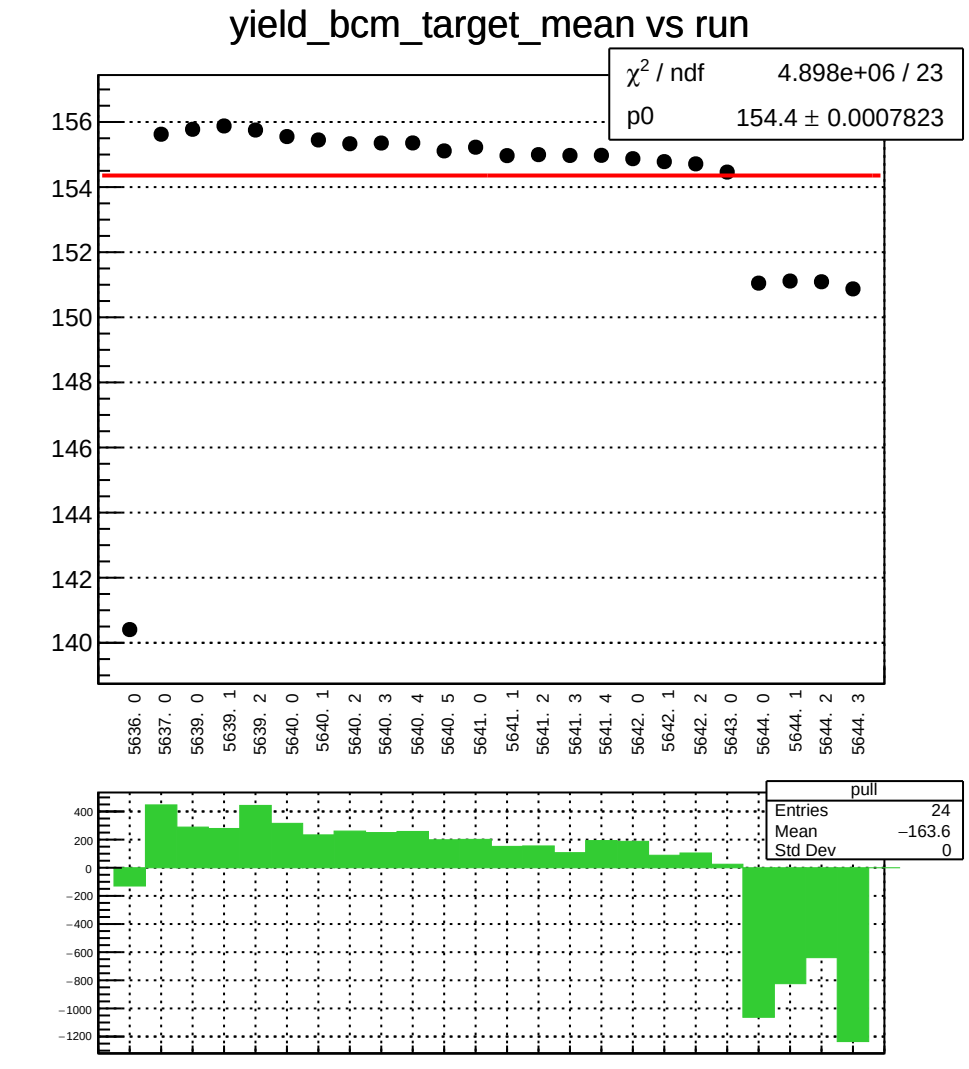

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 841.1 / 23
p0 4057 ± 5.847
4400
4300
4200
4100
4000
3900
3800
3700
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

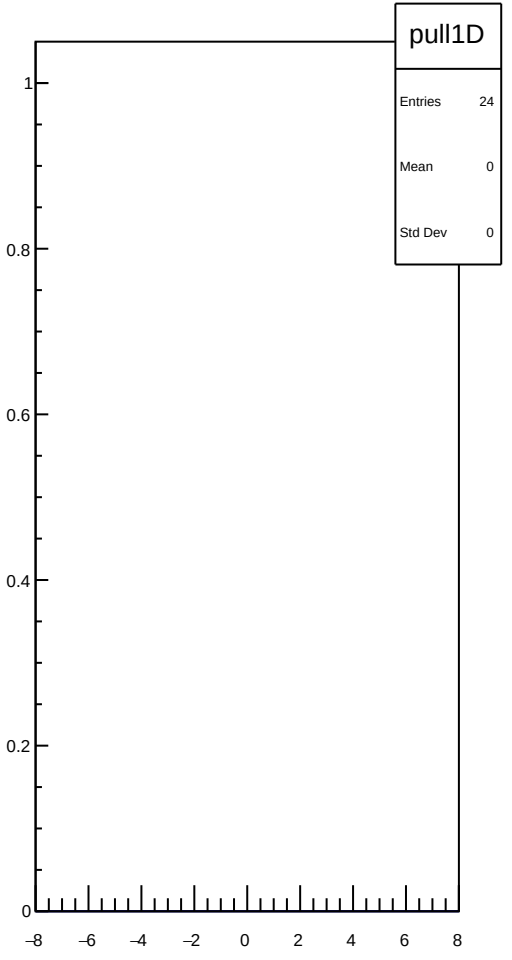

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
×10^3
χ² / ndf 24.47 / 23
p0 −5168 ± 8286
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 34.17
Std Dev 23.37
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.0179
Std Dev 1.01
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

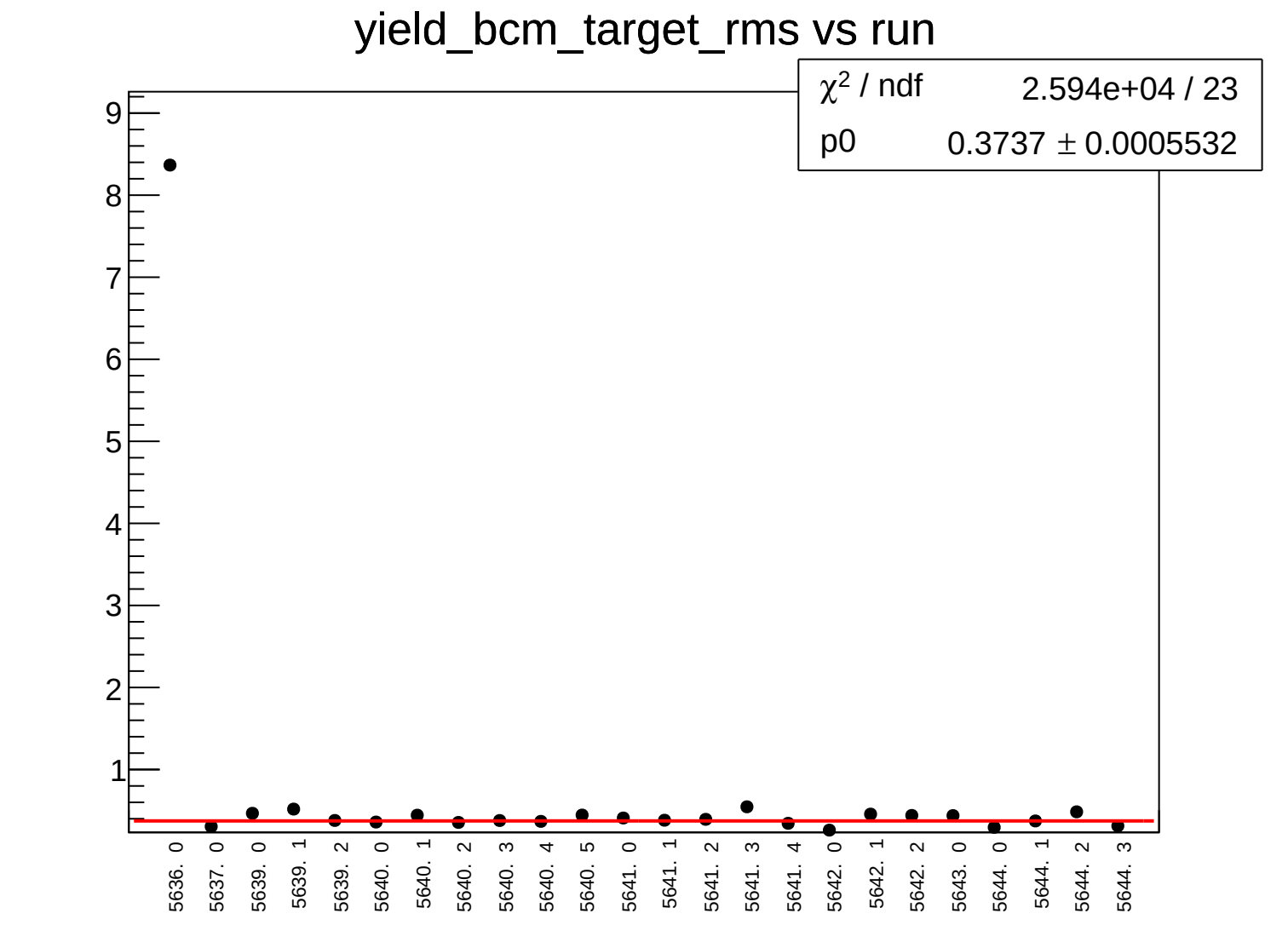

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 824.8 / 23
p0 4065 ± 5.859
4400
4300
4200
4100
4000
3900
3800
3700
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

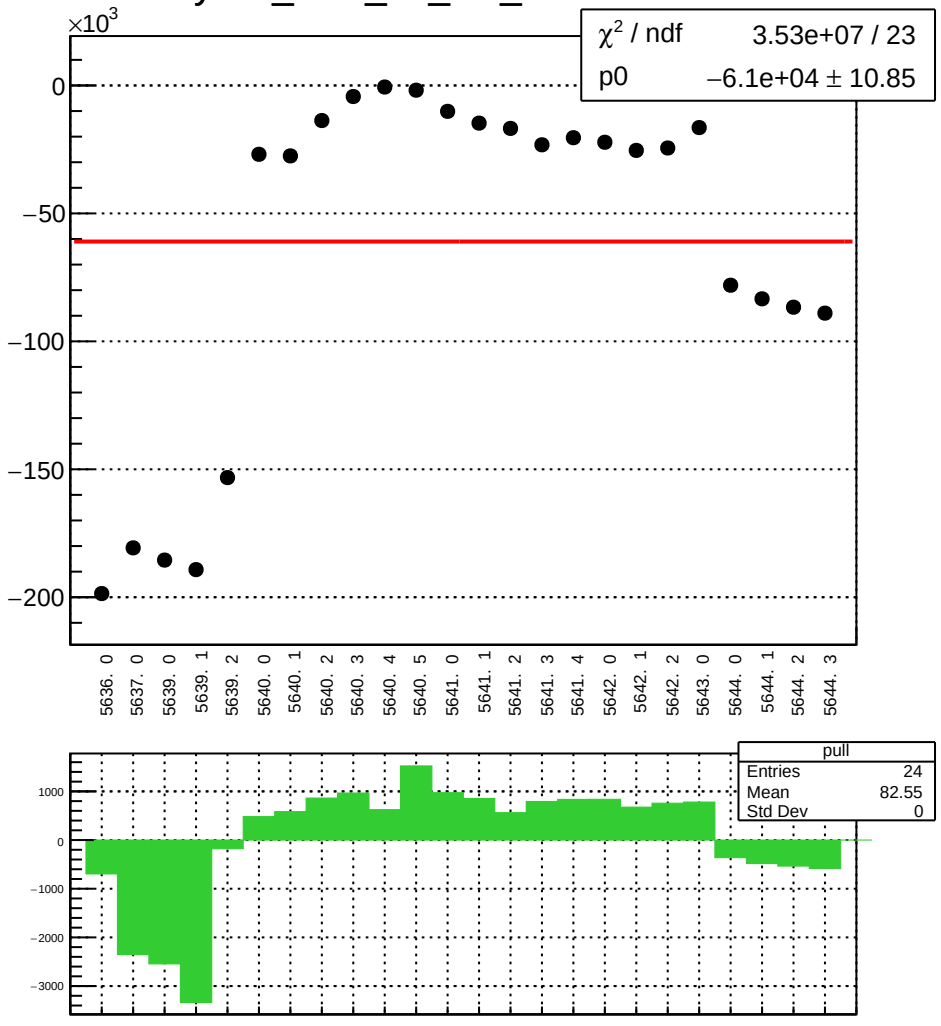

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
×10^3
χ² / ndf 24.6 / 23
p0 −5196 ± 8269
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 35.53
Std Dev 22.48
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.01759
Std Dev 1.012
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

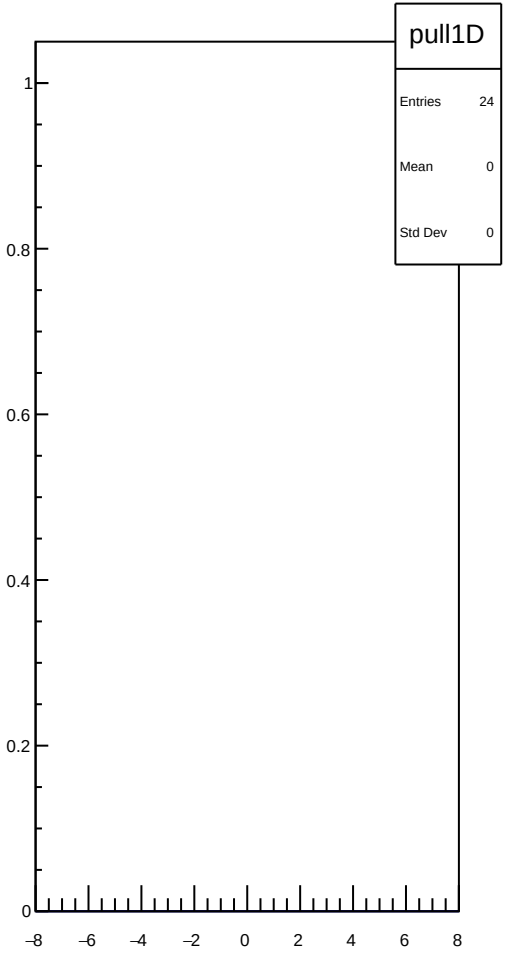

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 841.5 / 23
p0 4057 ± 5.847
4400
4300
4200
4100
4000
3900
3800
3700
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

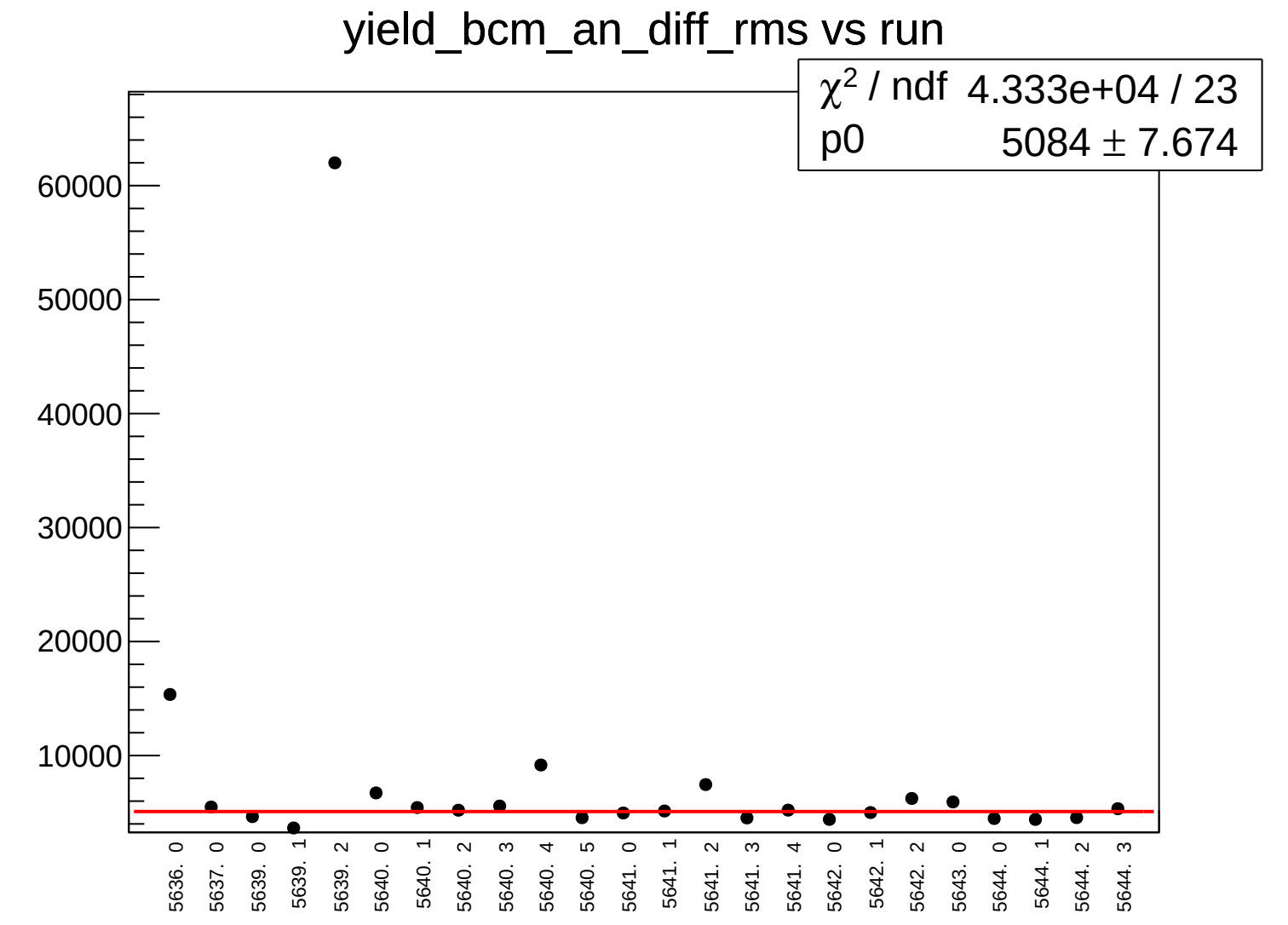

yield_bcm_target_mean vs run
χ² / ndf 4.898e+06 / 23
p0 154.4 ± 0.0007823
156
154
152
150
148
146
144
142
140
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −163.6
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000
−1200

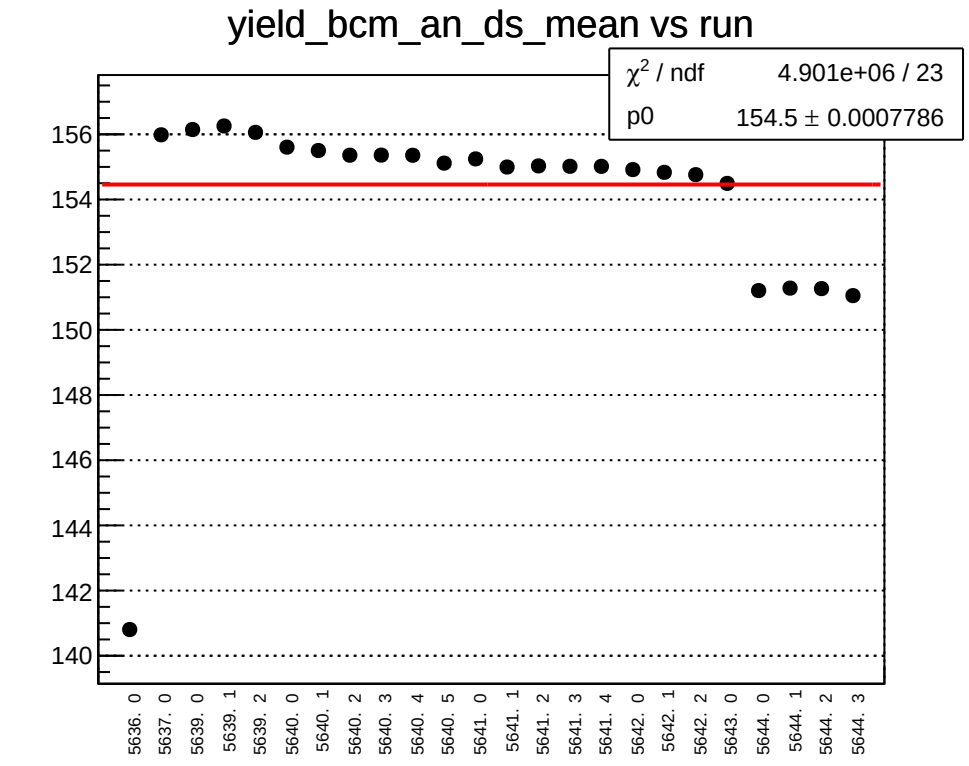

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

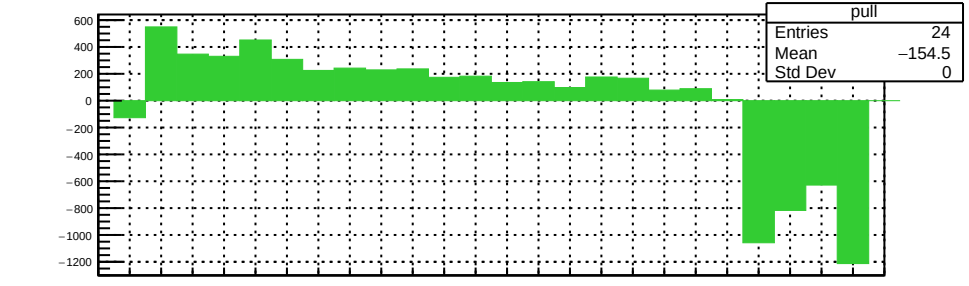

yield_bcm_target_rms vs run
χ² / ndf 2.594e+04 / 23
p0 0.3737 ± 0.0005532
9
8
7
6
5
4
3
2
1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

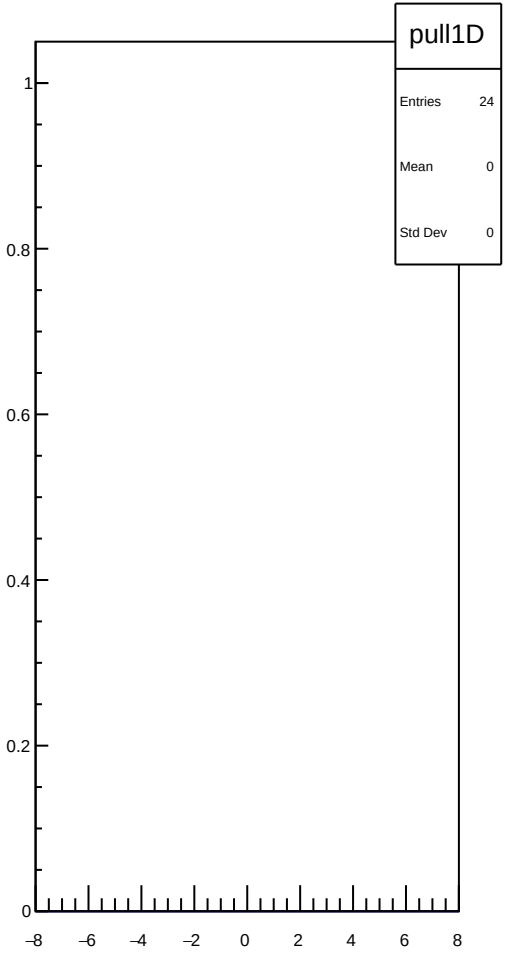

yield_bcm_an_diff_mean vs run
×10^3
χ² / ndf 3.53e+07 / 23
p0 −6.1e+04 ± 10.85
0
−50
−100
−150
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 82.55
Std Dev 0
1000
0
−1000
−2000
−3000

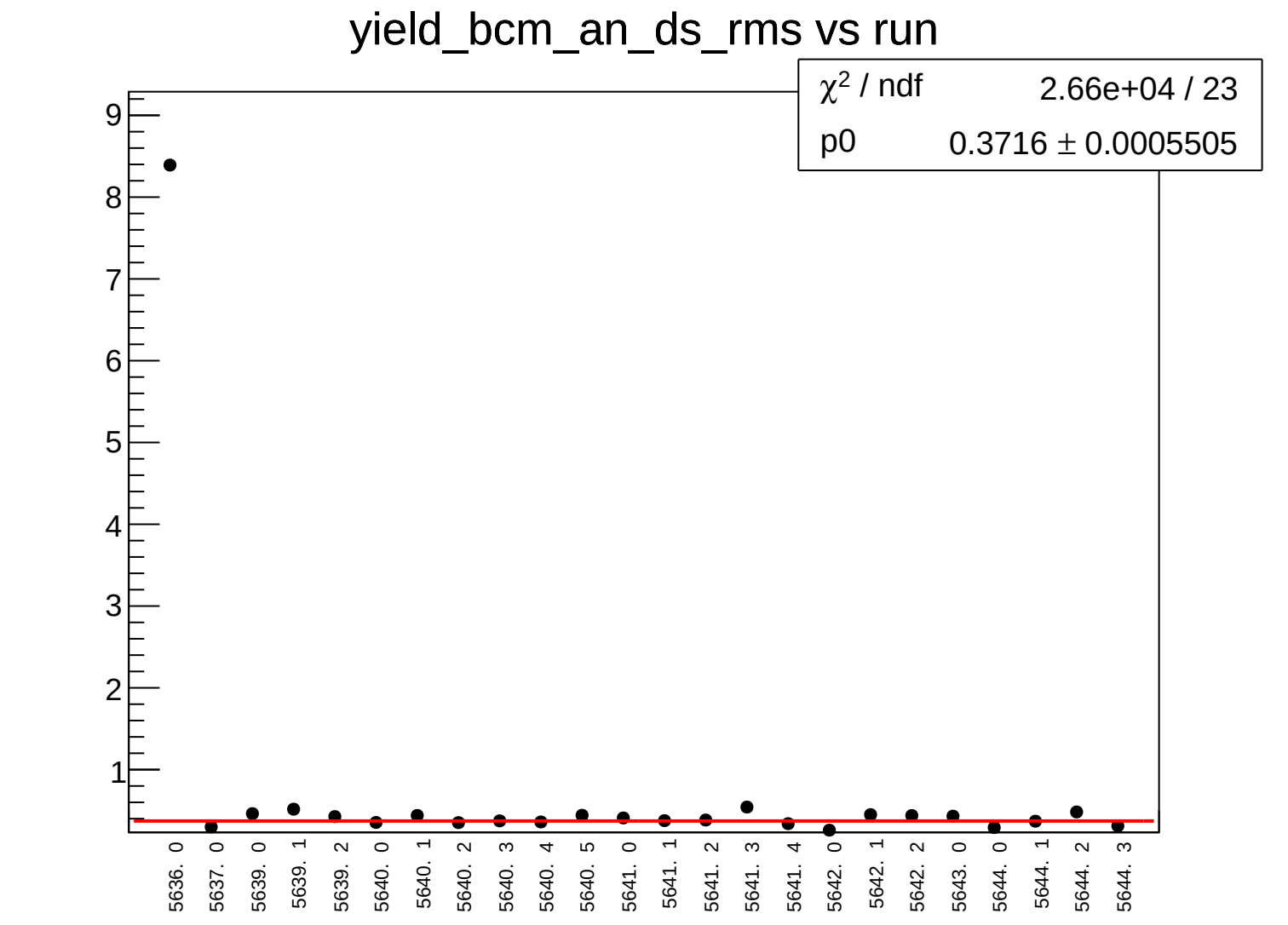

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

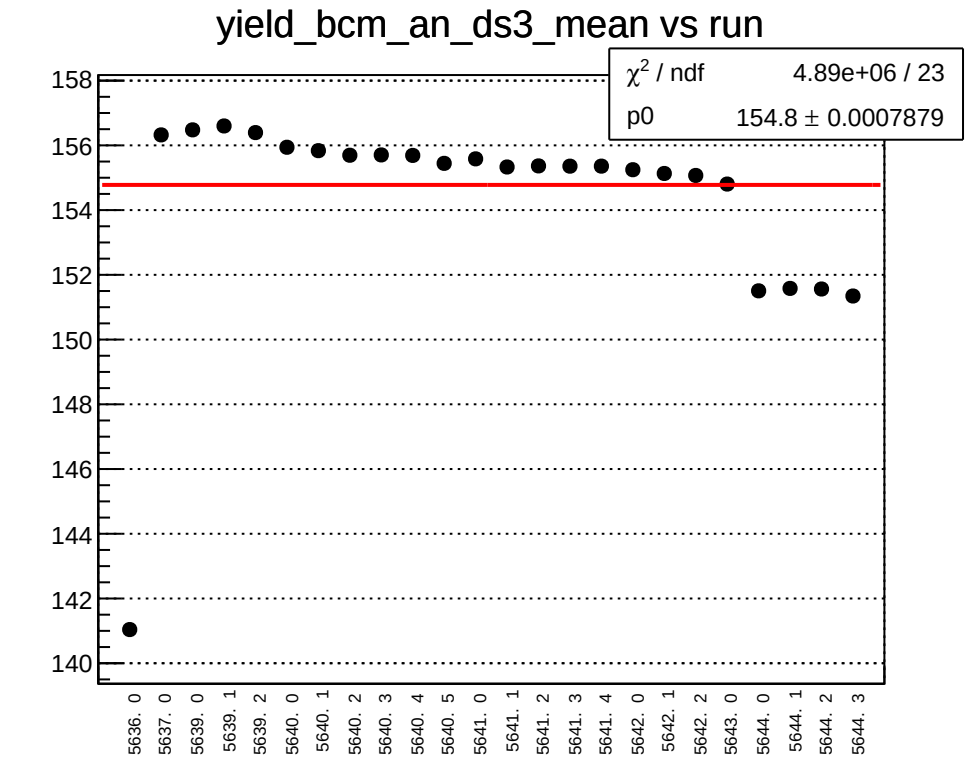

yield_bcm_an_diff_rms vs run
χ² / ndf 4.333e+04 / 23
p0 5084 ± 7.674
60000
50000
40000
30000
20000
10000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

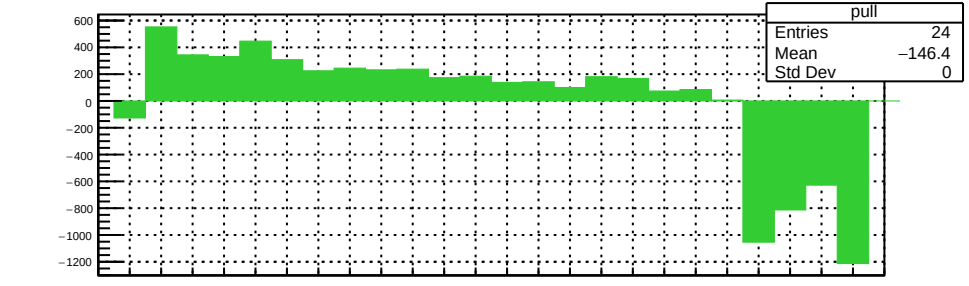

yield_bcm_an_ds_mean vs run
χ² / ndf 4.901e+06 / 23
p0 154.5 ± 0.0007786
156
154
152
150
148
146
144
142
140
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

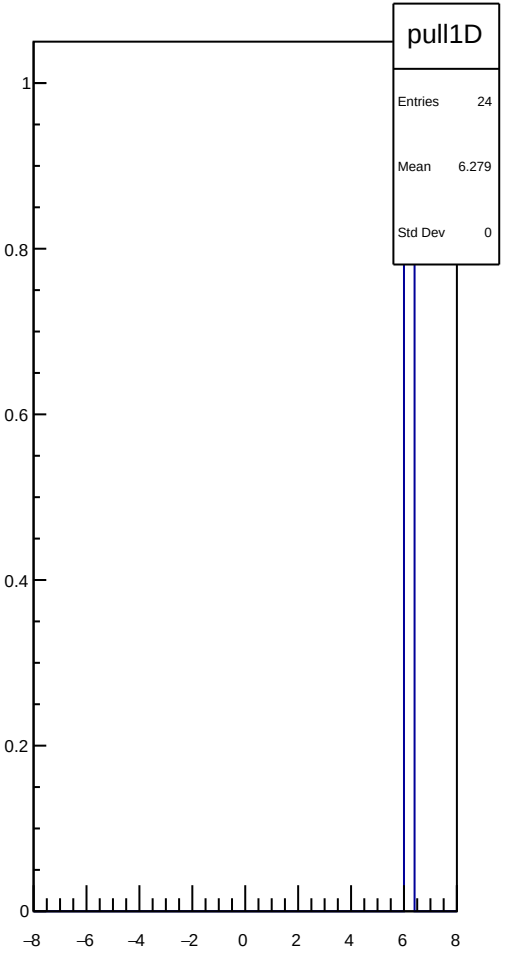

pull
Entries 24
Mean −154.5
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000
−1200

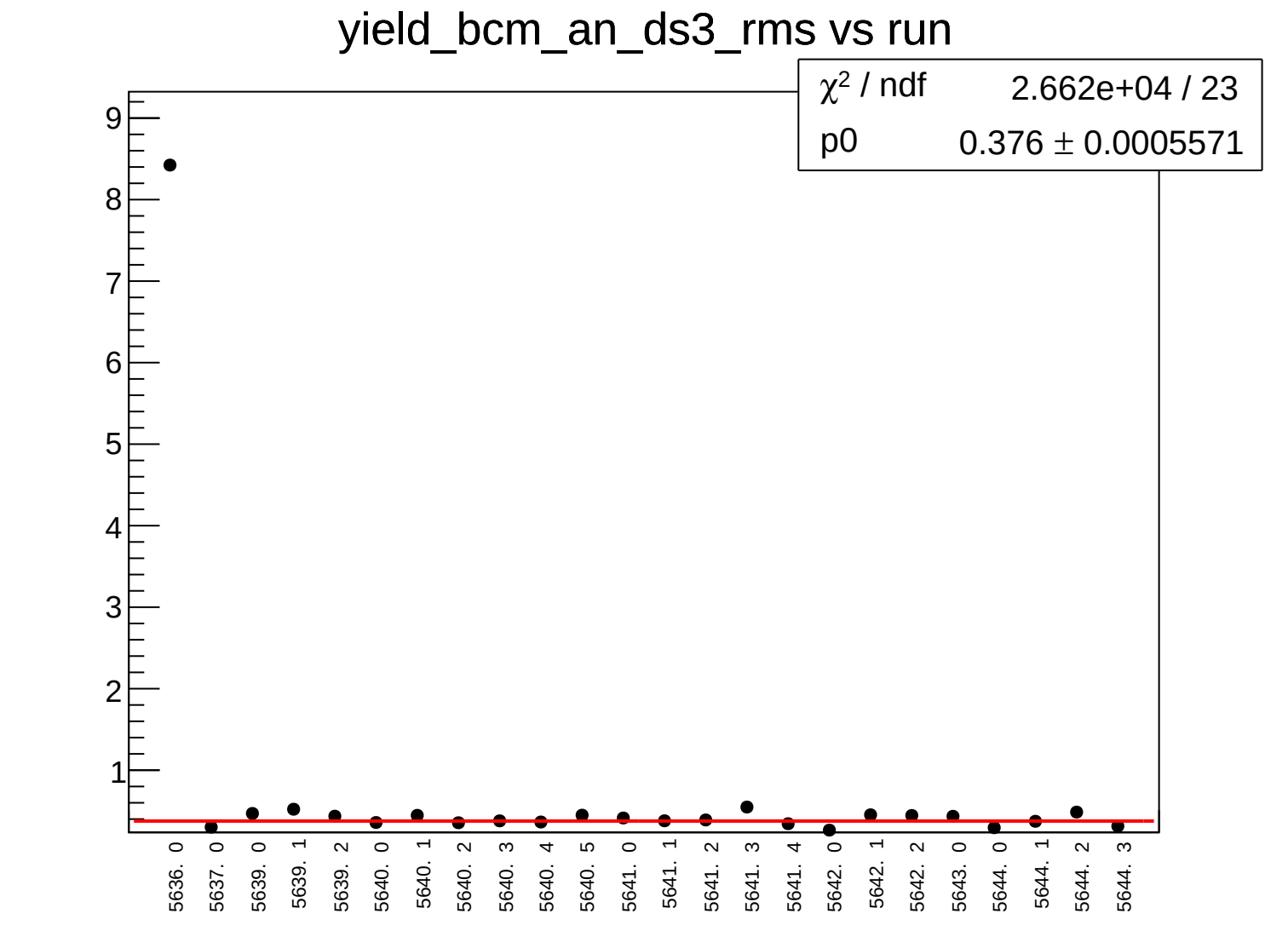

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

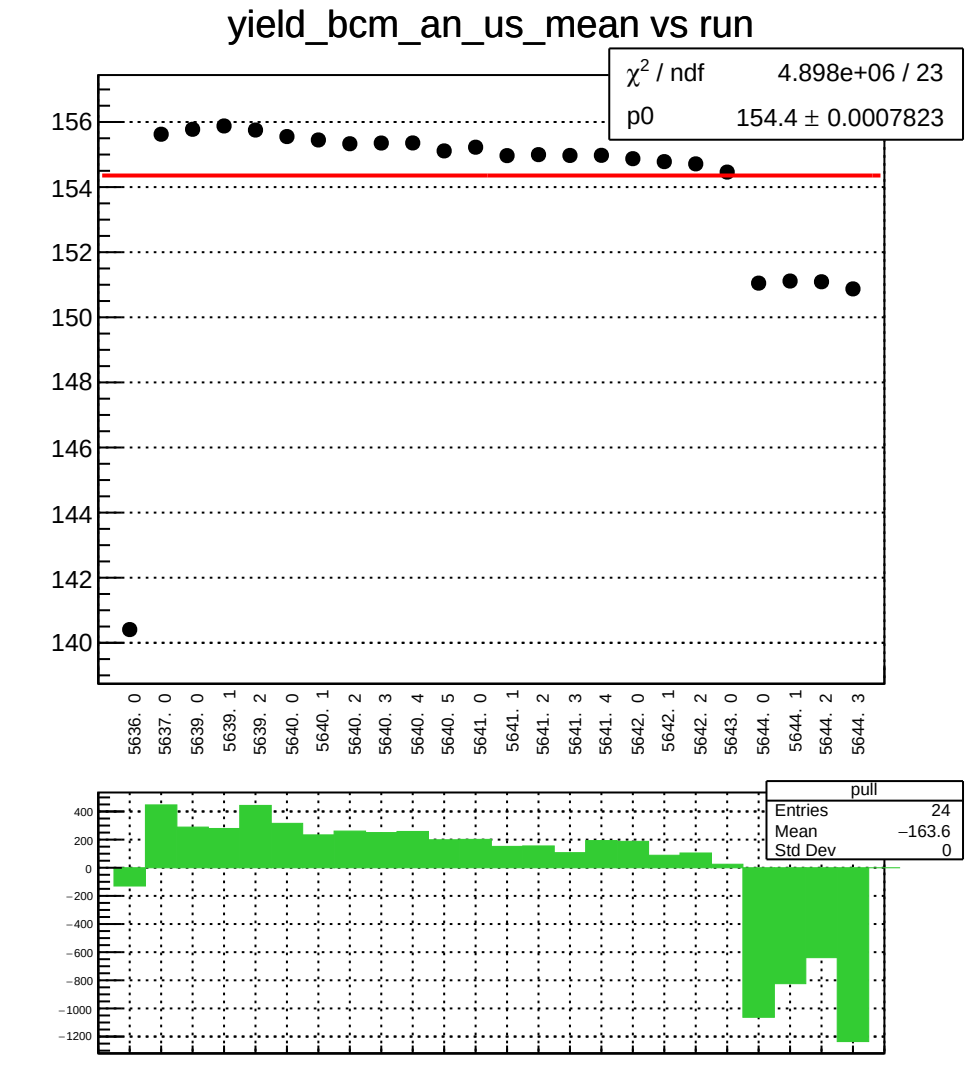

yield_bcm_an_ds_rms vs run
χ² / ndf 2.66e+04 / 23
p0 0.3716 ± 0.0005505
9
8
7
6
5
4
3
2
1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

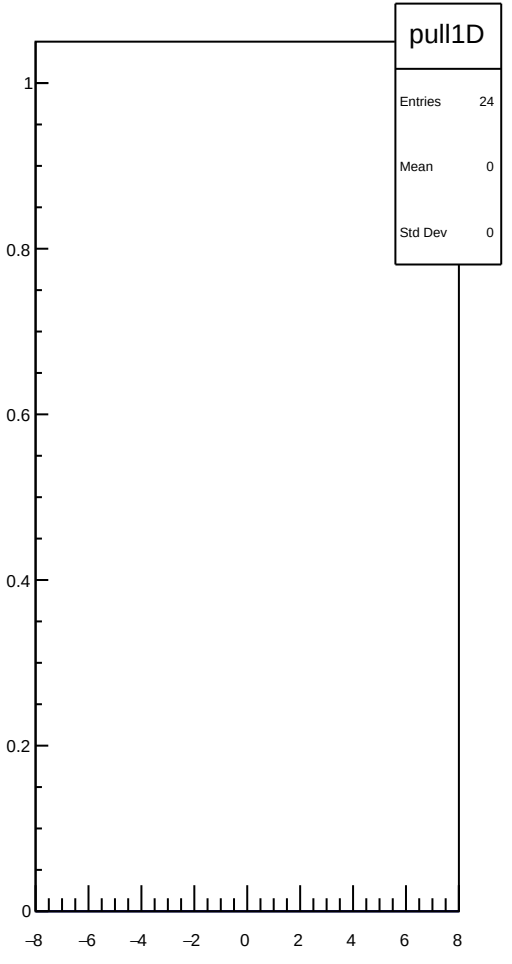

yield_bcm_an_ds3_mean vs run
χ² / ndf 4.89e+06 / 23
p0 154.8 ± 0.0007879
158
156
154
152
150
148
146
144
142
140
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

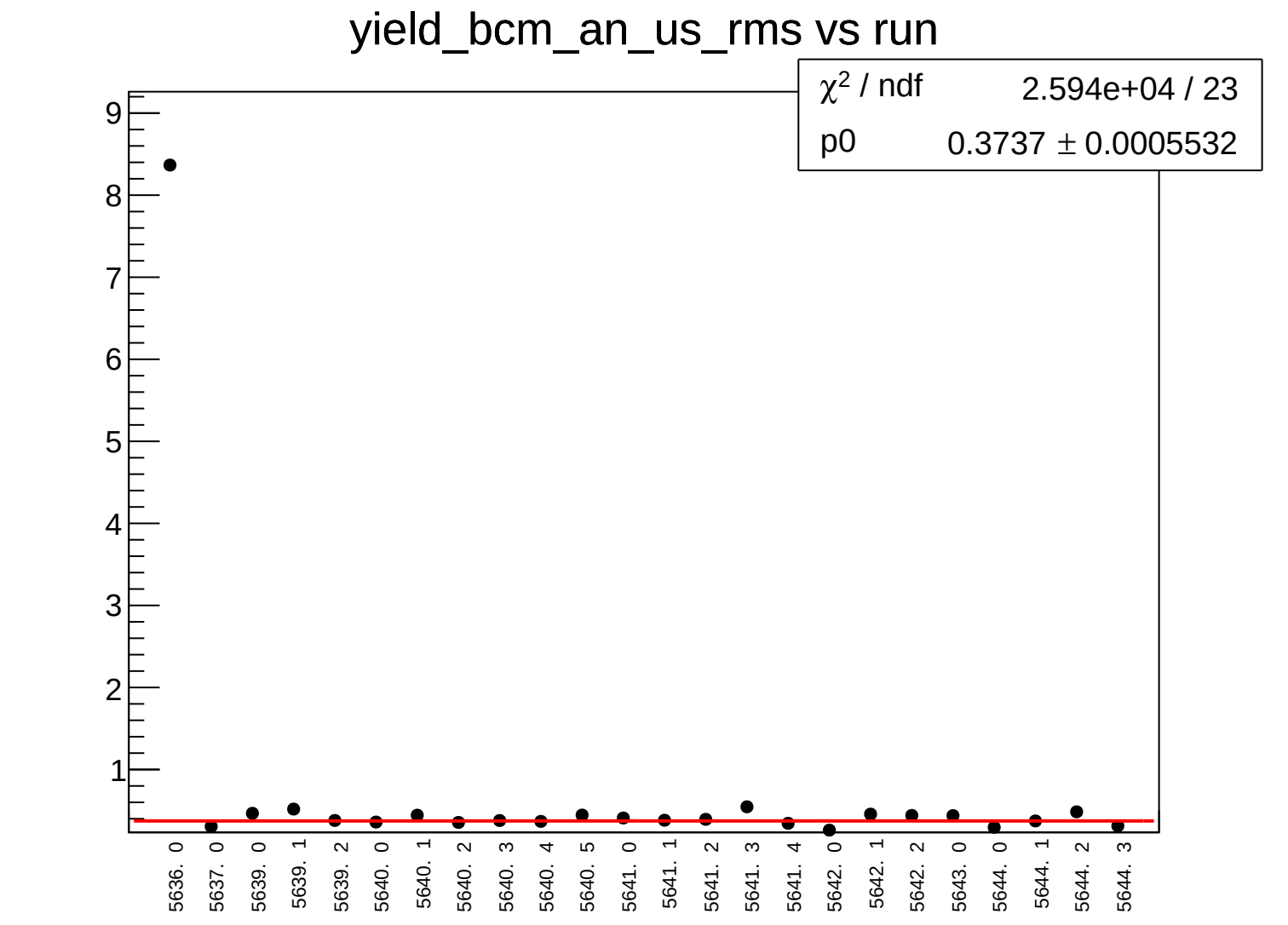

pull
Entries 24
Mean −146.4
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000
−1200

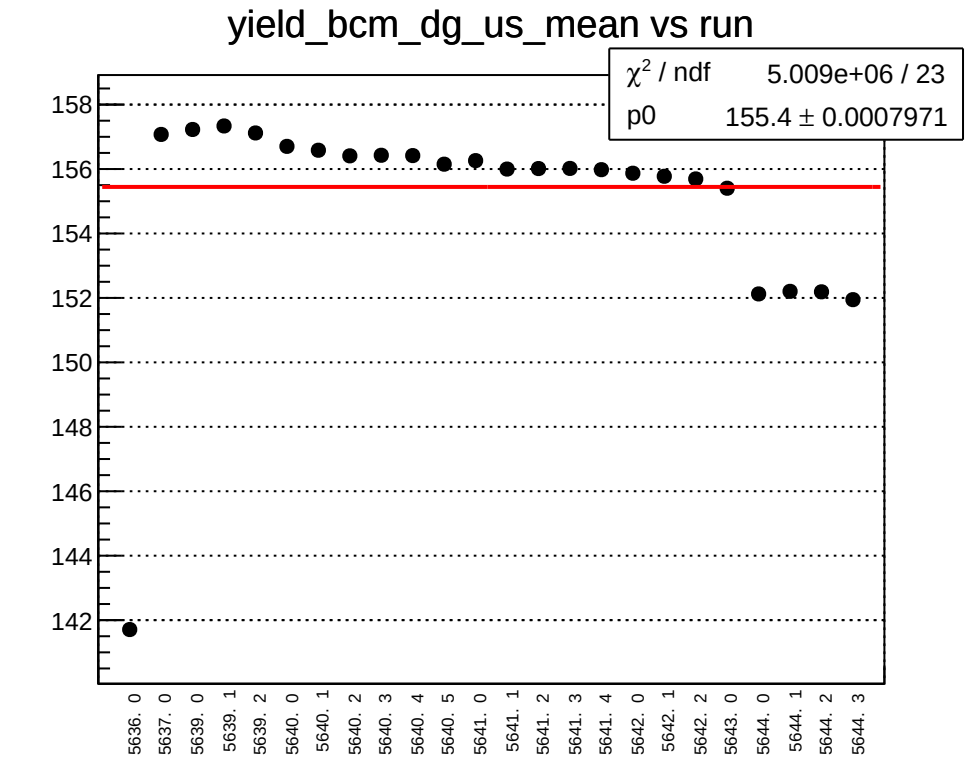

pull1D
Entries 24
Mean 6.279
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

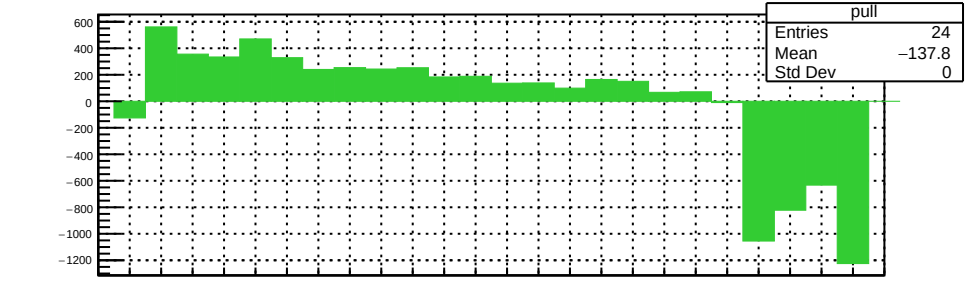

yield_bcm_an_ds3_rms vs run
χ² / ndf 2.662e+04 / 23
p0 0.376 ± 0.0005571
9
8
7
6
5
4
3
2
1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

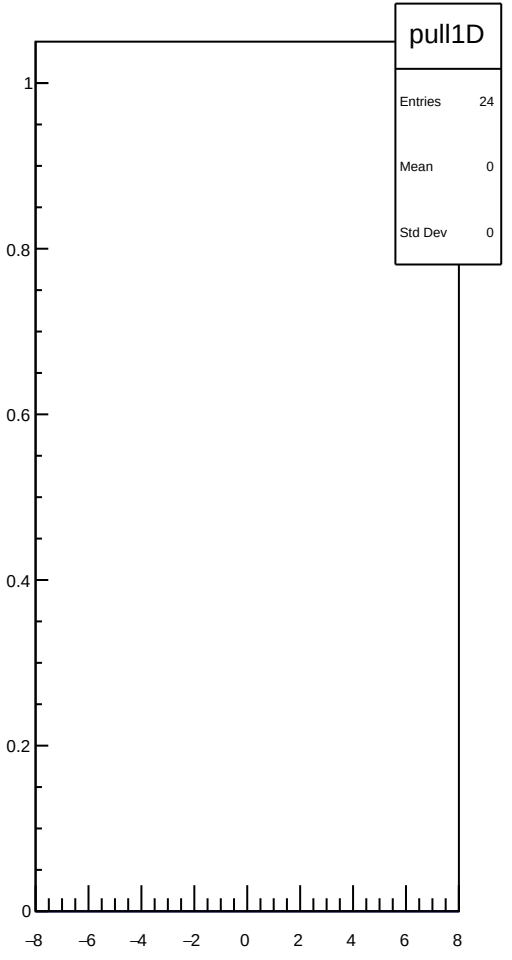

yield_bcm_an_us_mean vs run
χ² / ndf 4.898e+06 / 23
p0 154.4 ± 0.0007823
156
154
152
150
148
146
144
142
140
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −163.6
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000
−1200

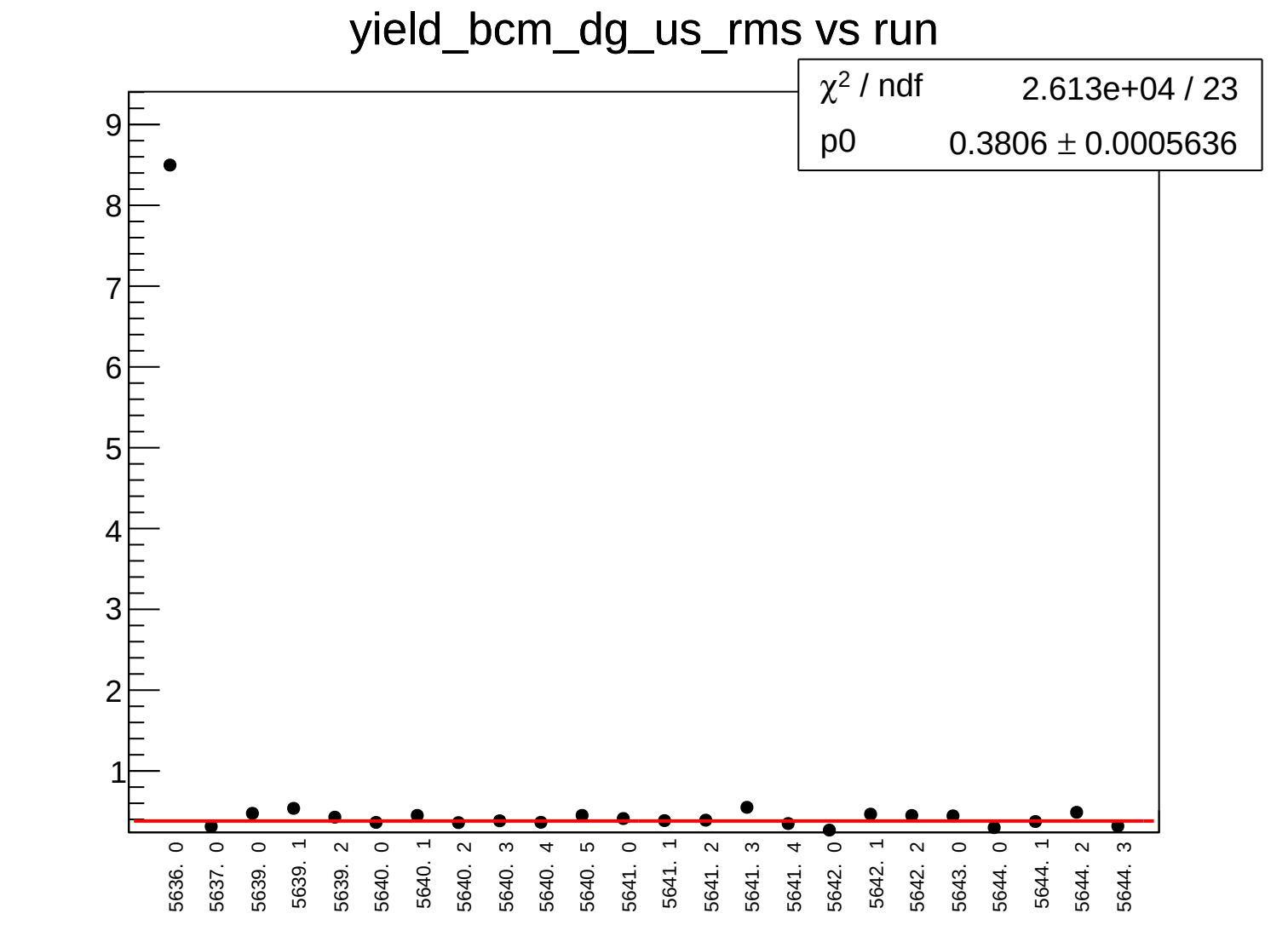

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

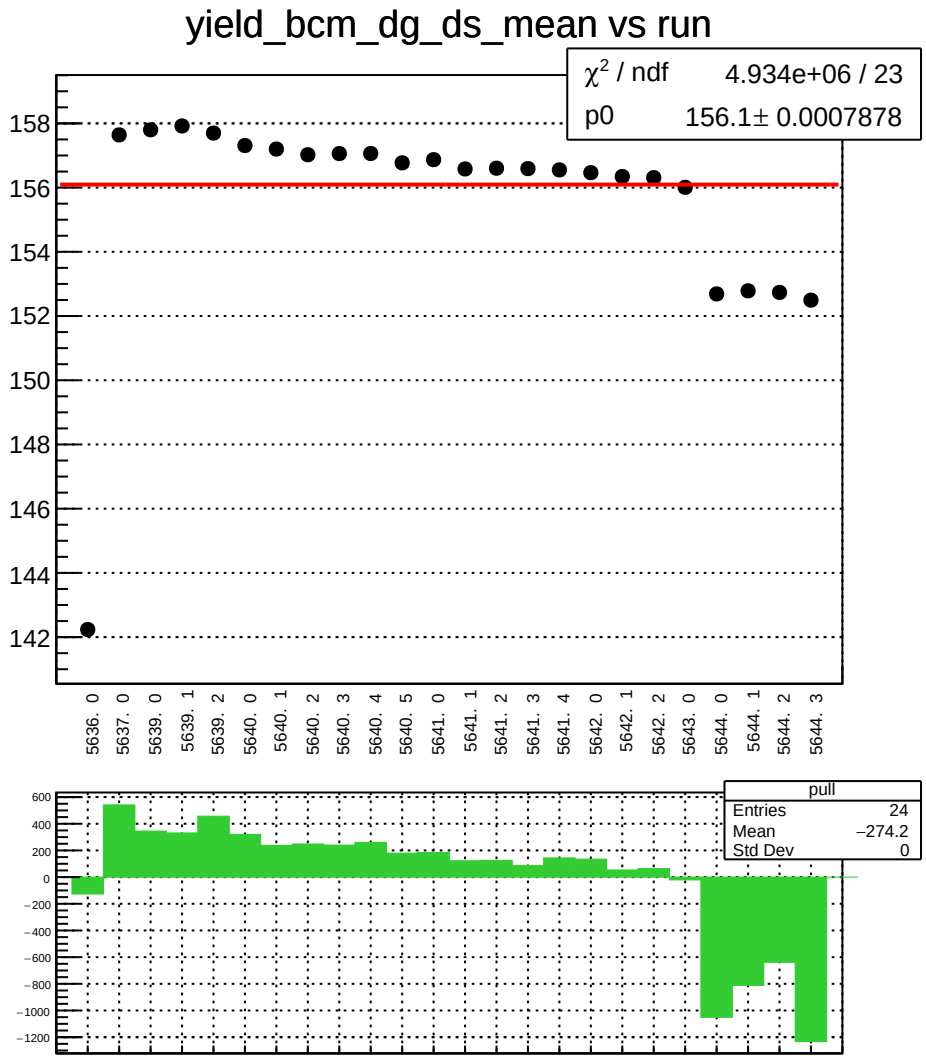

yield_bcm_an_us_rms vs run
χ² / ndf 2.594e+04 / 23
p0 0.3737 ± 0.0005532
9
8
7
6
5
4
3
2
1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

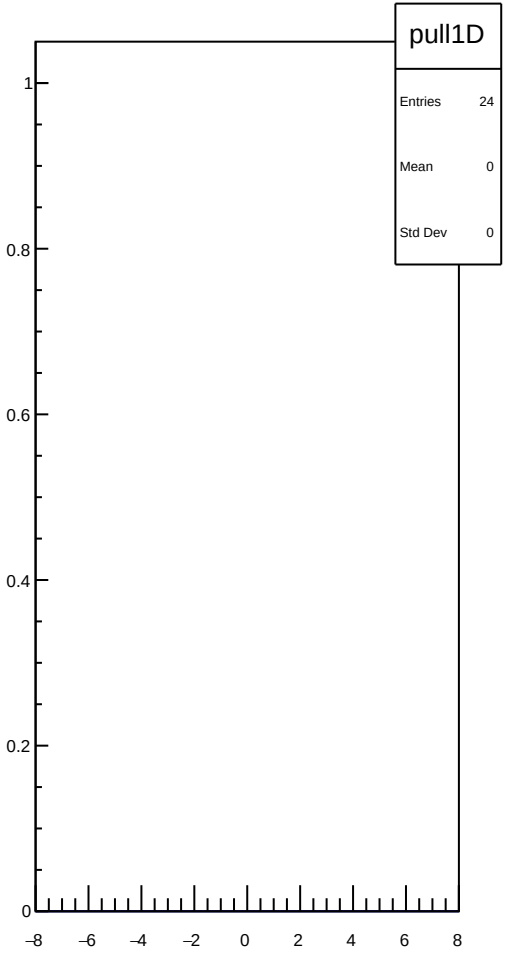

yield_bcm_dg_us_mean vs run
χ² / ndf 5.009e+06 / 23
p0 155.4 ± 0.0007971
158
156
154
152
150
148
146
144
142
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

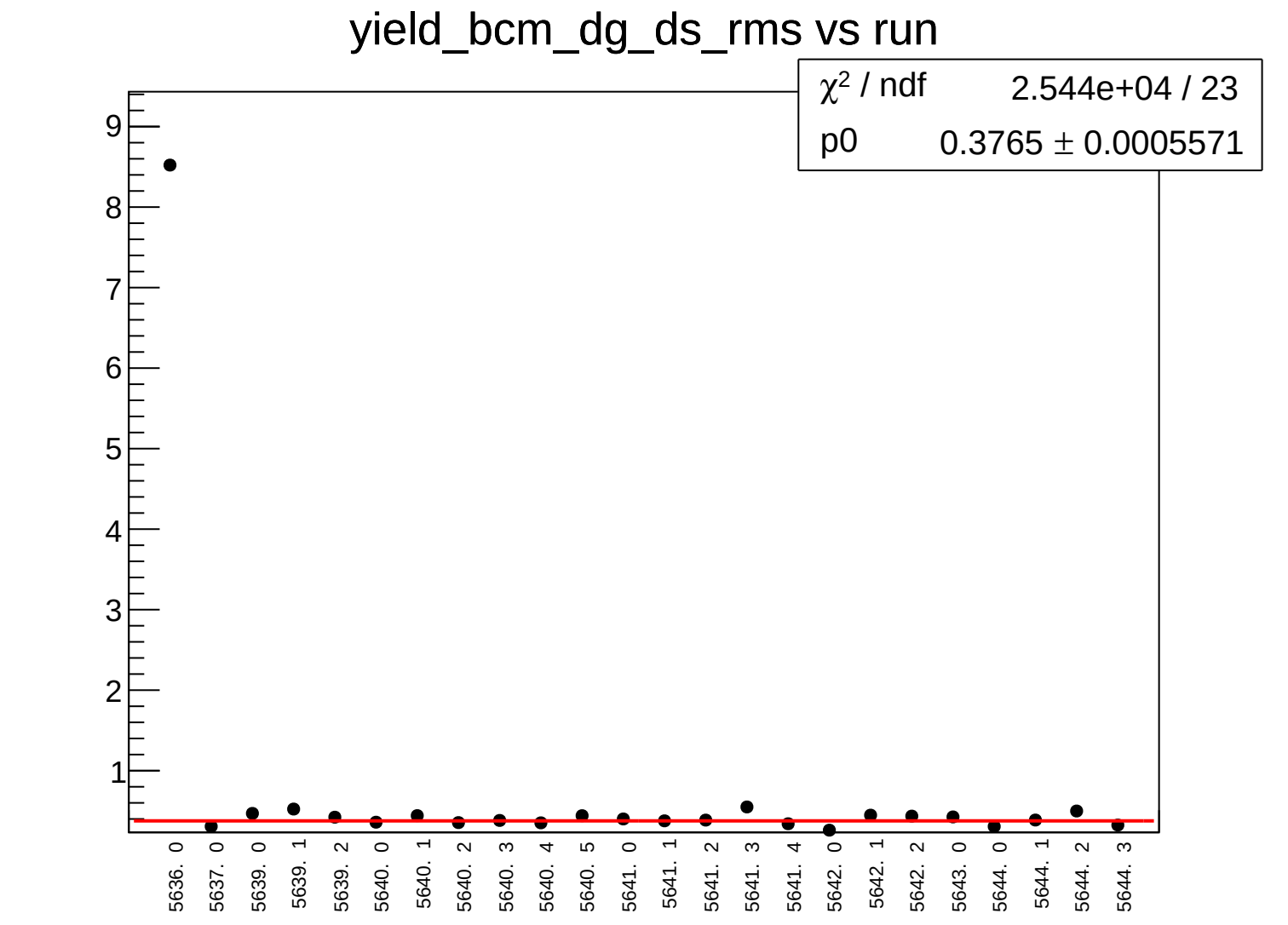

pull
Entries 24
Mean −137.8
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000
−1200

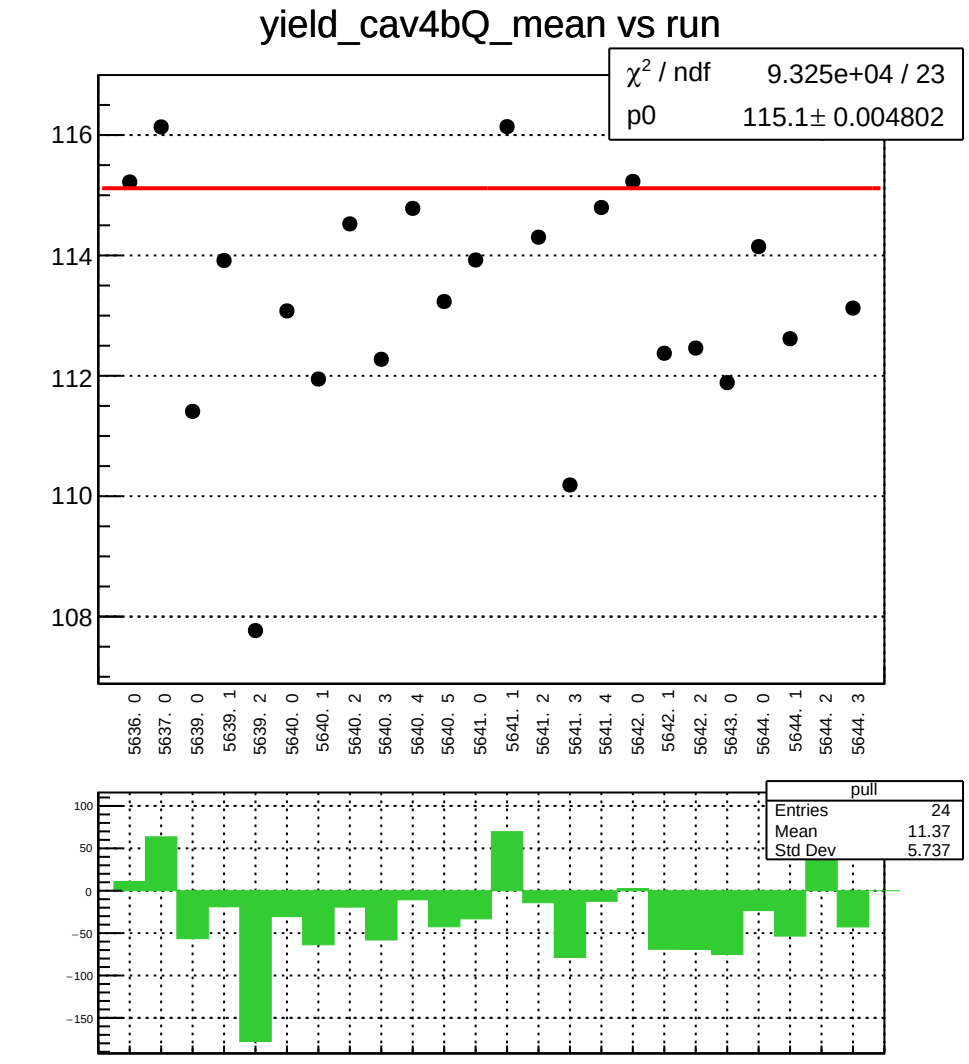

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

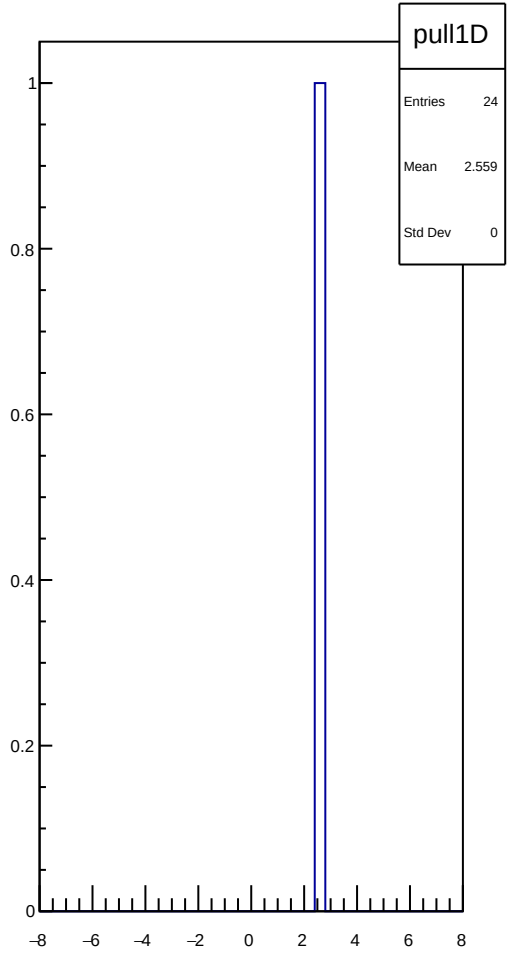

yield_bcm_dg_us_rms vs run
χ² / ndf 2.613e+04 / 23
p0 0.3806 ± 0.0005636
9
8
7
6
5
4
3
2
1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

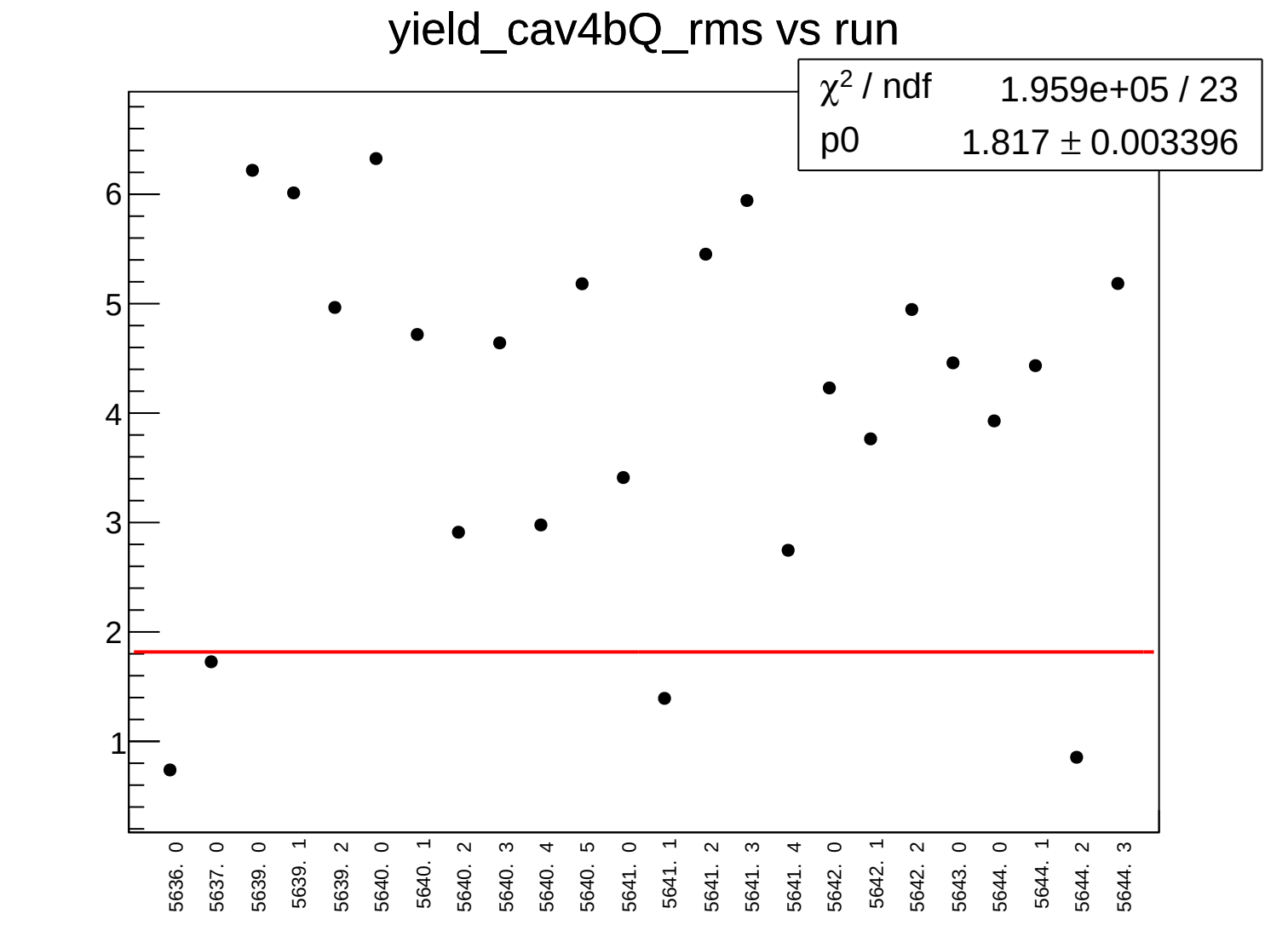

yield_bcm_dg_ds_mean vs run
χ² / ndf 4.934e+06 / 23
p0 156.1± 0.0007878
158
156
154
152
150
148
146
144
142
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean –274.2
Std Dev 0
600
400
200
0
–200
–400
–600
–800
–1000
–1200

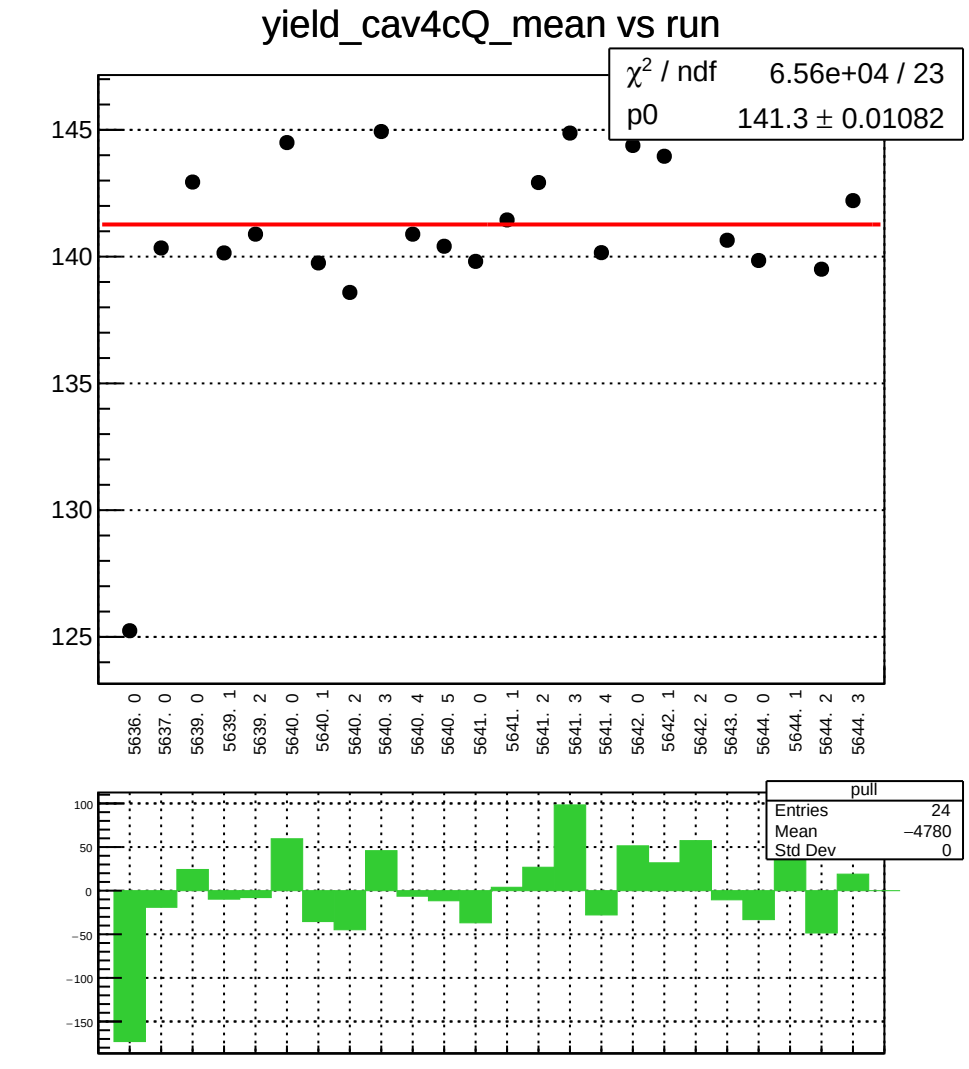

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

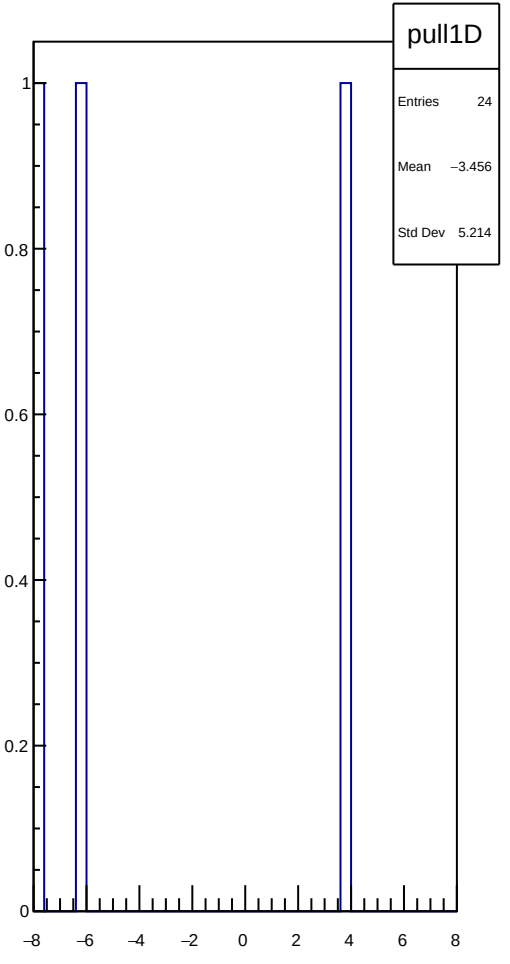

yield_bcm_dg_ds_rms vs run
χ² / ndf 2.544e+04 / 23
p0 0.3765 ± 0.0005571
9
8
7
6
5
4
3
2
1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

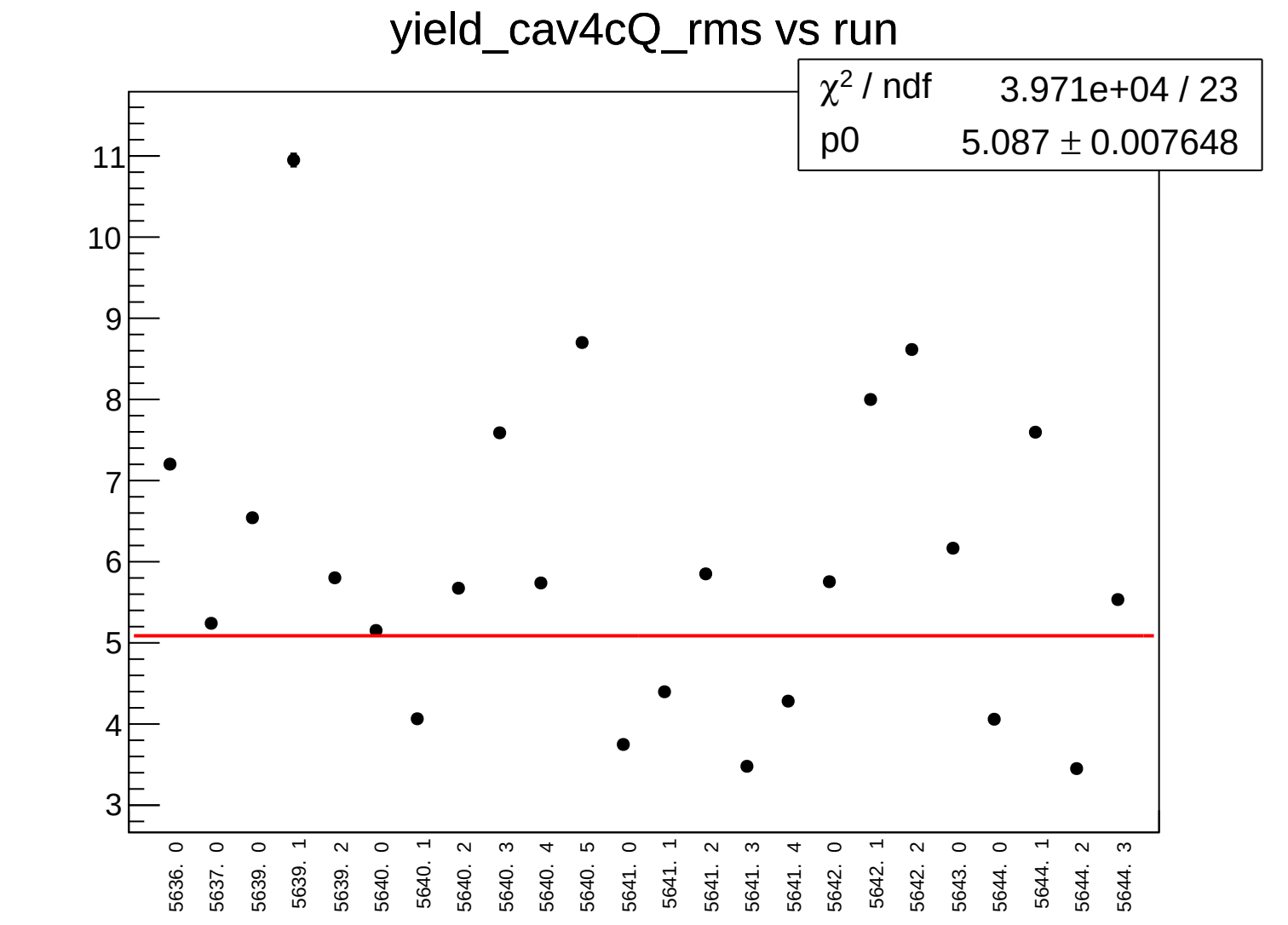

yield_cav4bQ_mean vs run
χ² / ndf 9.325e+04 / 23
p0 115.1± 0.004802
116
114
112
110
108
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 11.37
Std Dev 5.737
100
50
0
−50
−100
−150

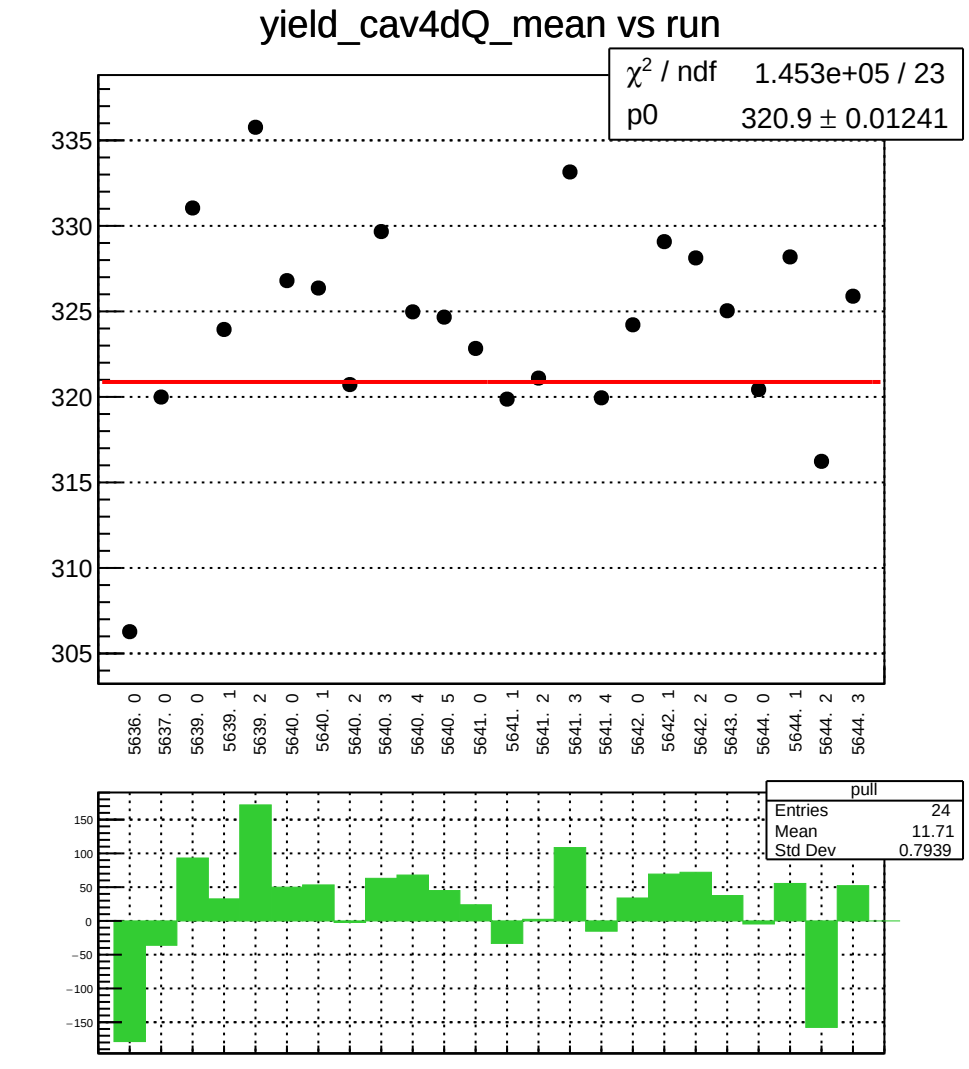

pull1D
Entries 24
Mean 2.559
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

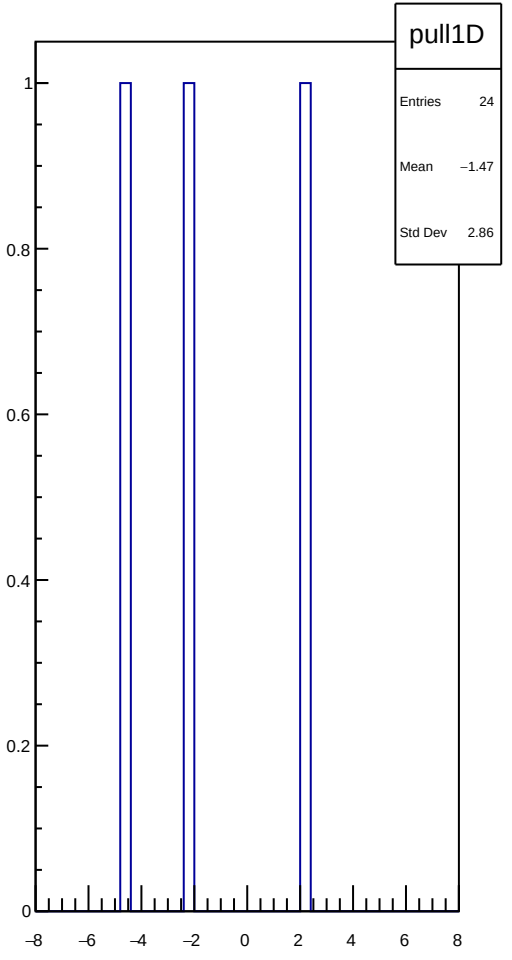

yield_cav4bQ_rms vs run
χ² / ndf 1.959e+05 / 23
p0 1.817 ± 0.003396
6
5
4
3
2
1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

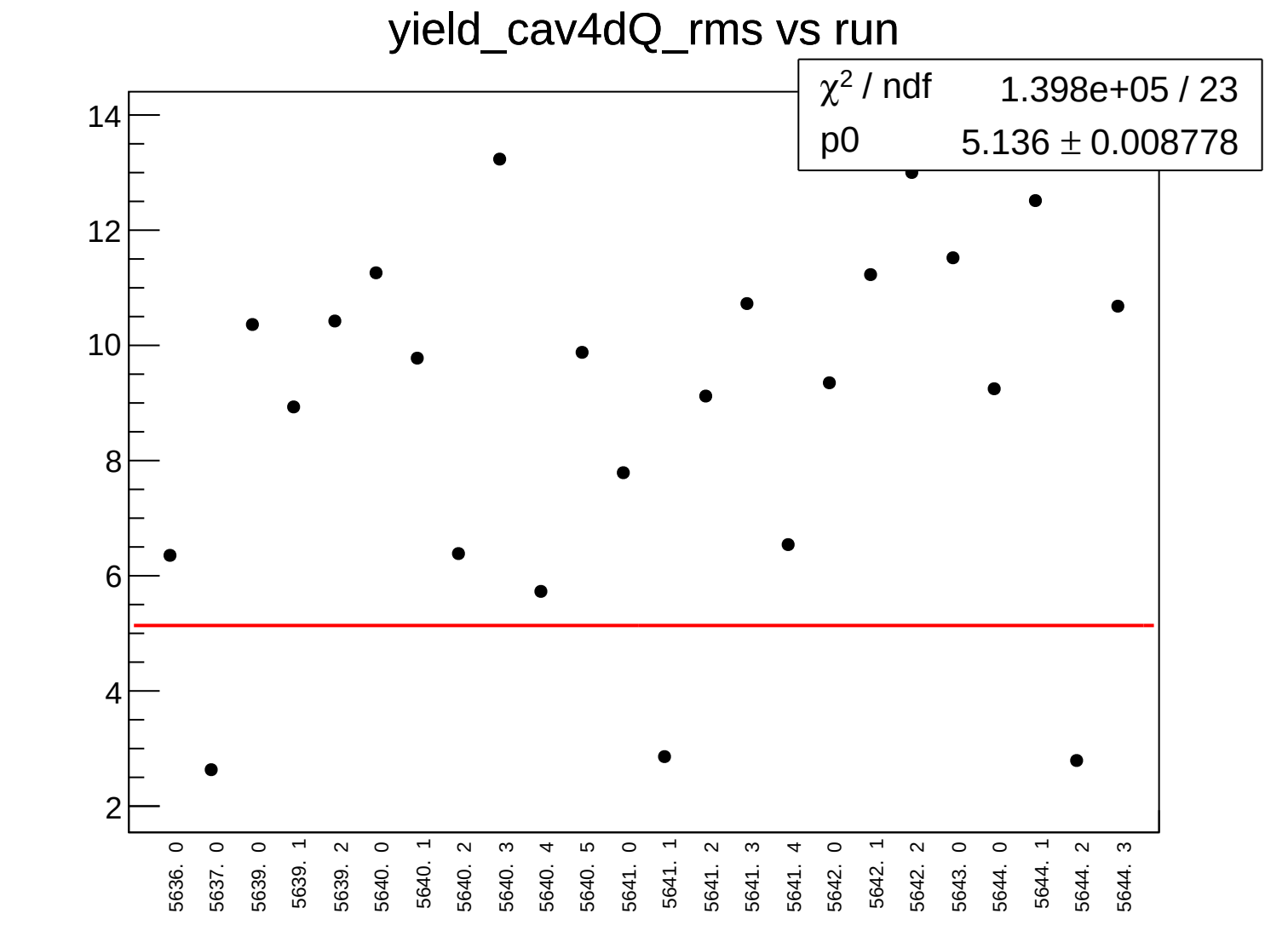

yield_cav4cQ_mean vs run
χ² / ndf 6.56e+04 / 23
p0 141.3 ± 0.01082
145
140
135
130
125
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −4780
Std Dev 0
100
50
0
−50
−100
−150

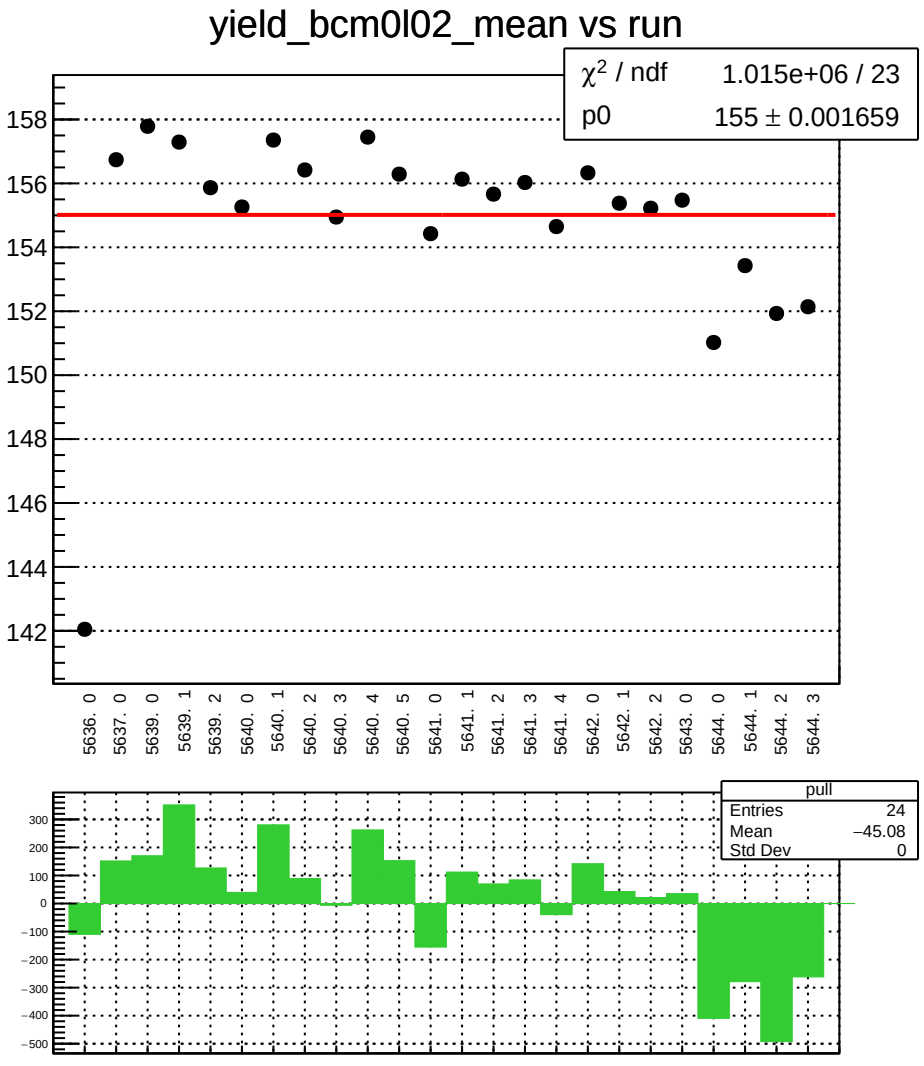

pull1D
Entries 24
Mean −3.456
Std Dev 5.214
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

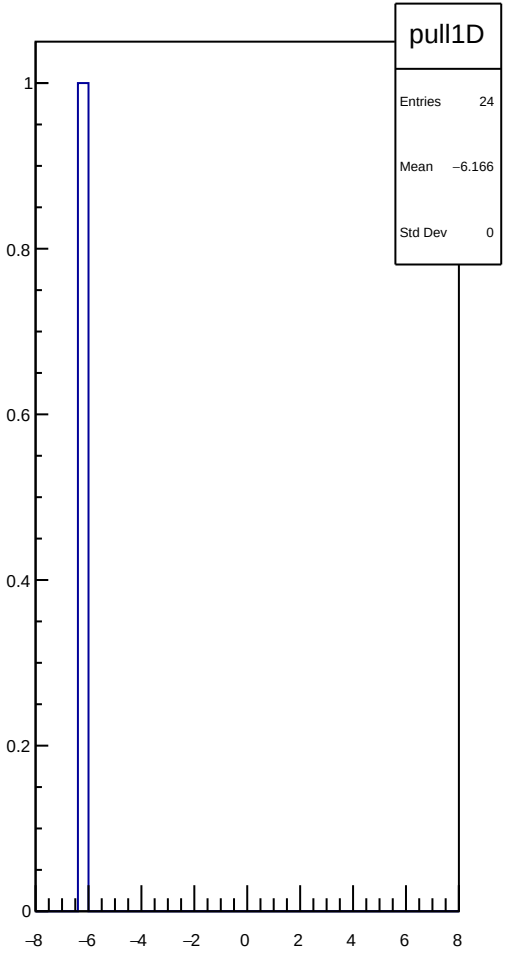

yield_cav4cQ_rms vs run
χ^2 / ndf 3.971e+04 / 23
p0 5.087 ± 0.007648
11
10
9
8
7
6
5
4
3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

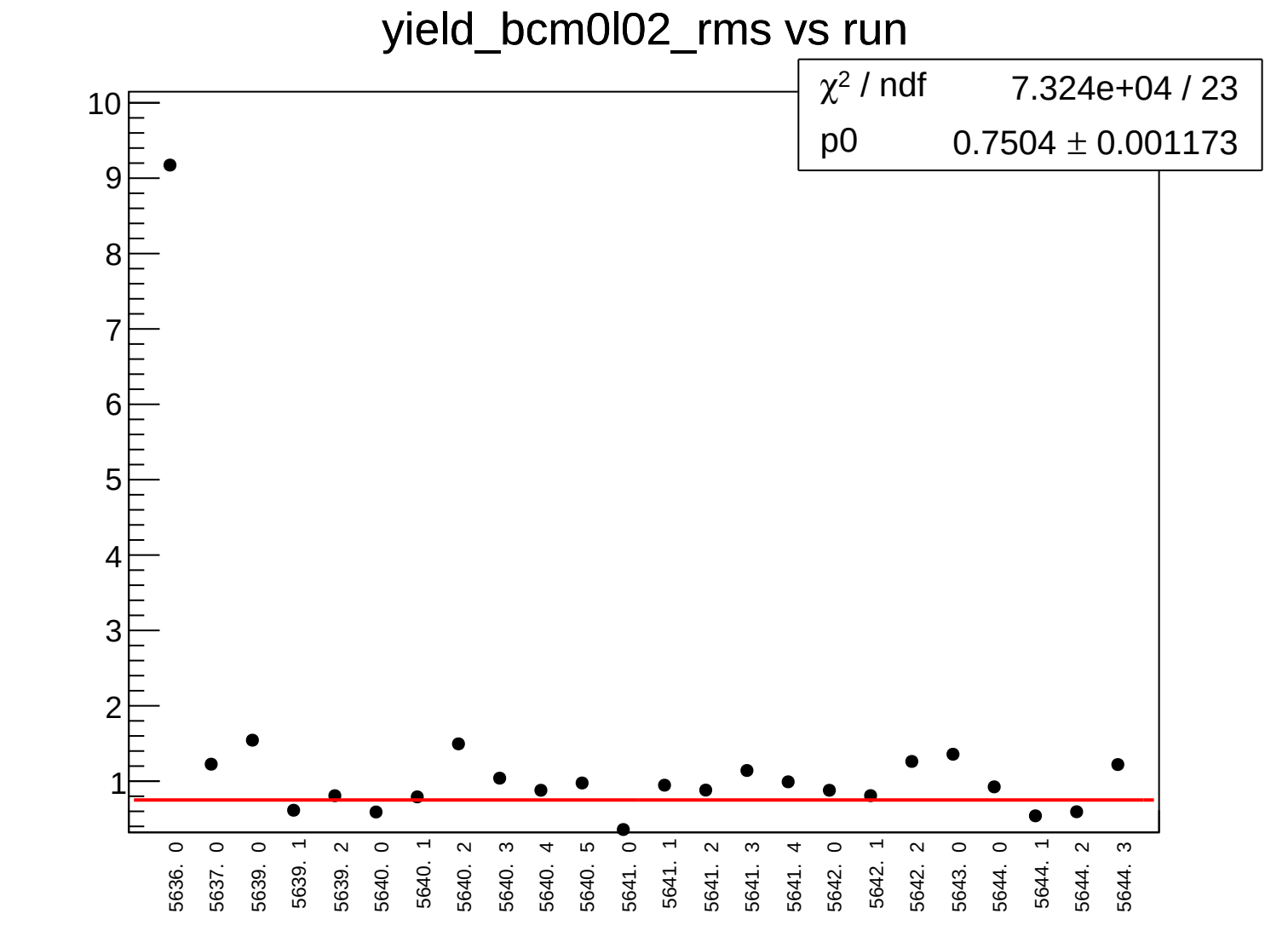

yield_cav4dQ_mean vs run
χ² / ndf 1.453e+05 / 23
p0 320.9 ± 0.01241
335
330
325
320
315
310
305
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 11.71
Std Dev 0.7939
150
100
50
0
−50
−100
−150

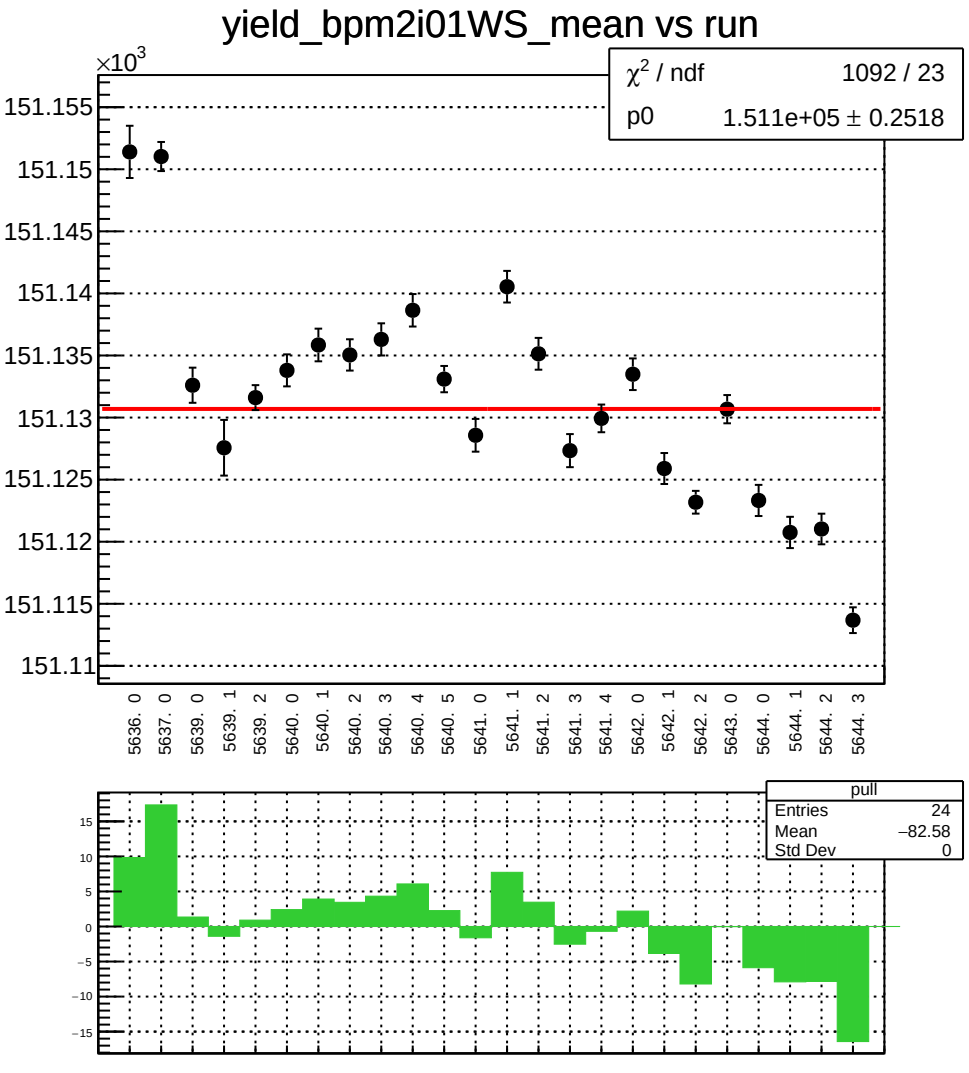

pull1D
Entries 24
Mean −1.47
Std Dev 2.86
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

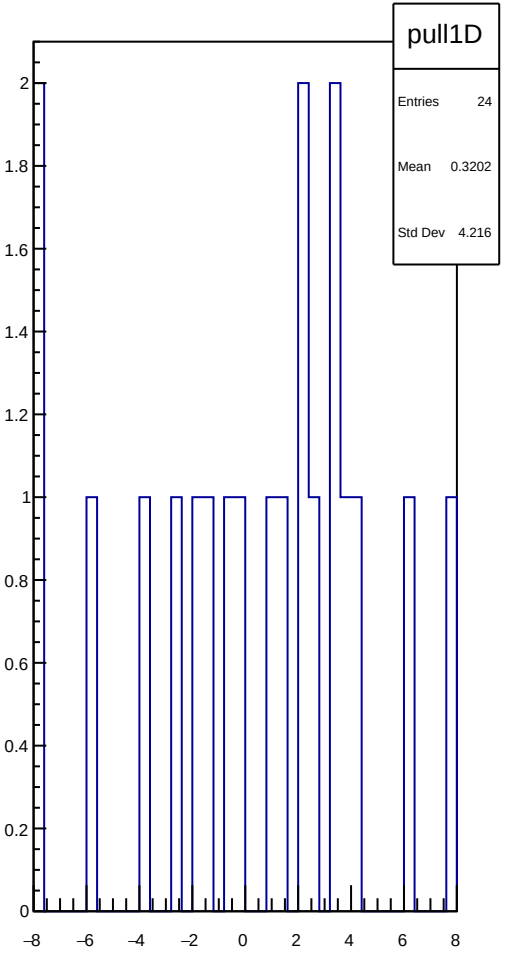

yield_cav4dQ_rms vs run
χ² / ndf 1.398e+05 / 23
p0 5.136 ± 0.008778
14
12
10
8
6
4
2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

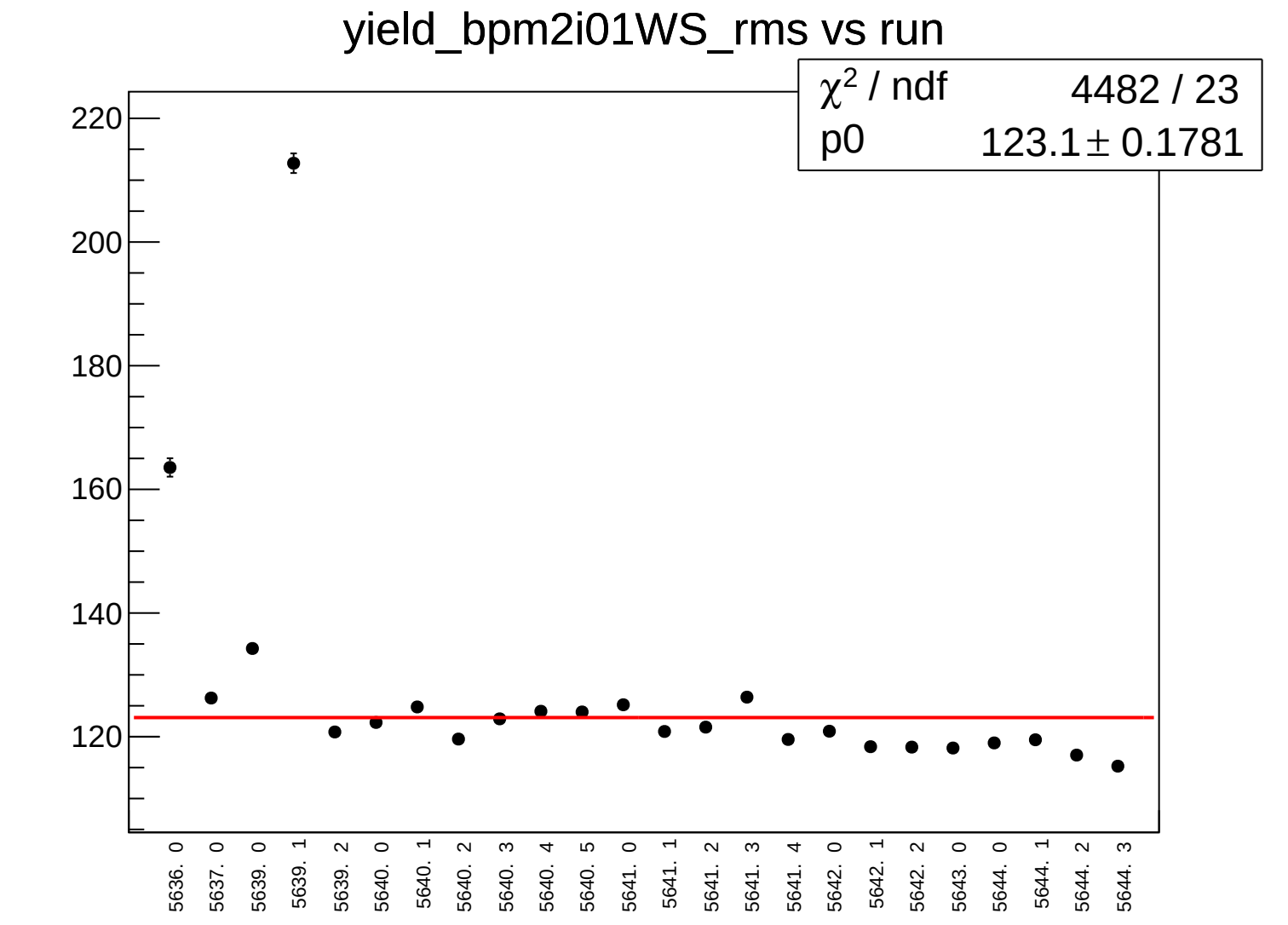

yield_bcm0l02_mean vs run
χ² / ndf 1.015e+06 / 23
p0 155 ± 0.001659
158
156
154
152
150
148
146
144
142
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −45.08
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500

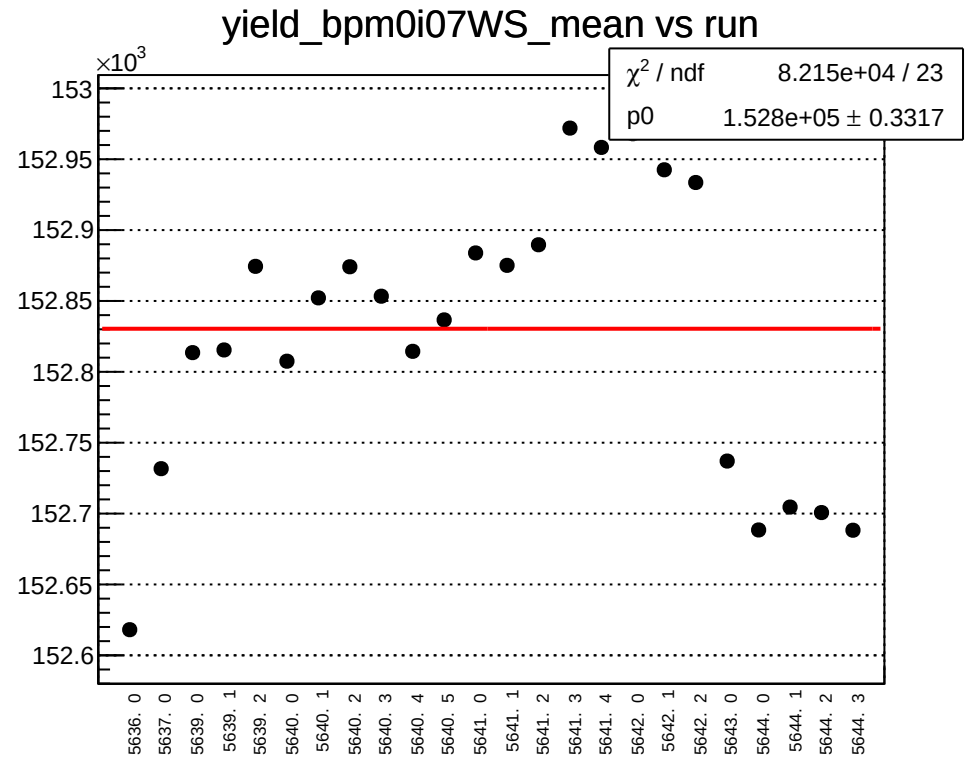

pull1D
Entries 24
Mean −6.166
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

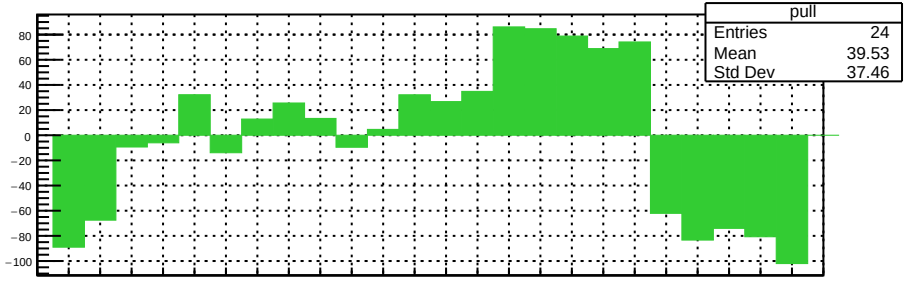

yield_bcm0l02_rms vs run
χ² / ndf 7.324e+04 / 23
p0 0.7504 ± 0.001173
10
9
8
7
6
5
4
3
2
1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

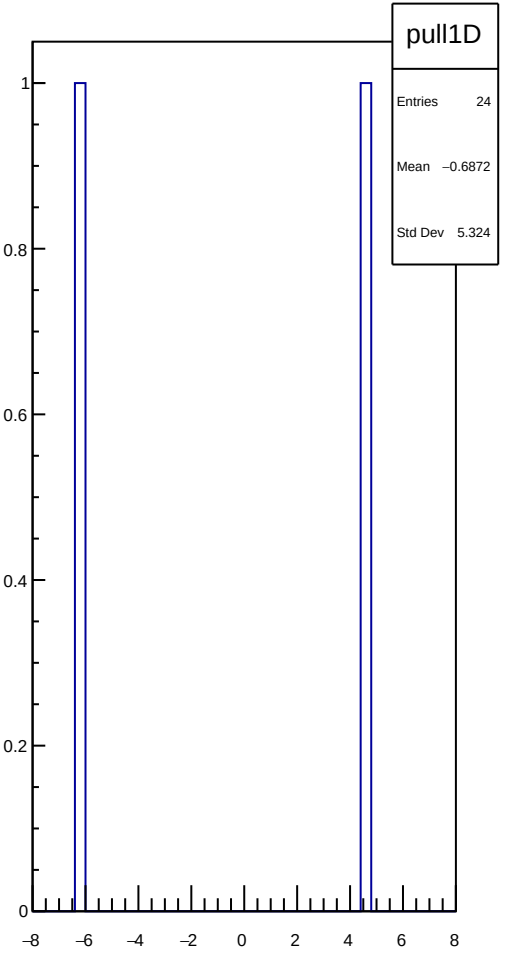

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1092 / 23
p0 1.511e+05 ± 0.2518
151.155
151.15
151.145
151.14
151.135
151.13
151.125
151.12
151.115
151.11
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −82.58
Std Dev 0
15
10
5
0
−5
−10
−15

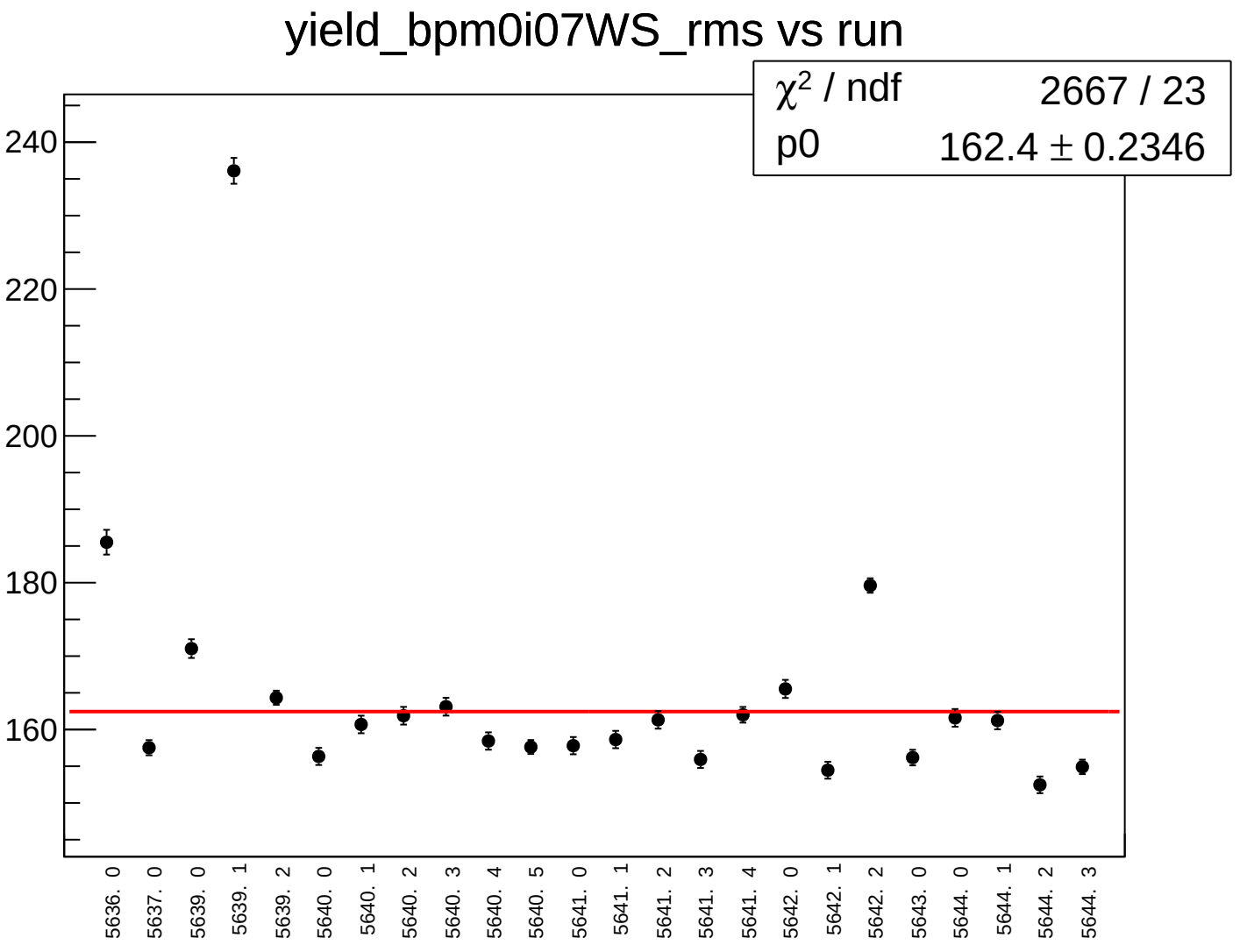

pull1D
Entries 24
Mean 0.3202
Std Dev 4.216
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

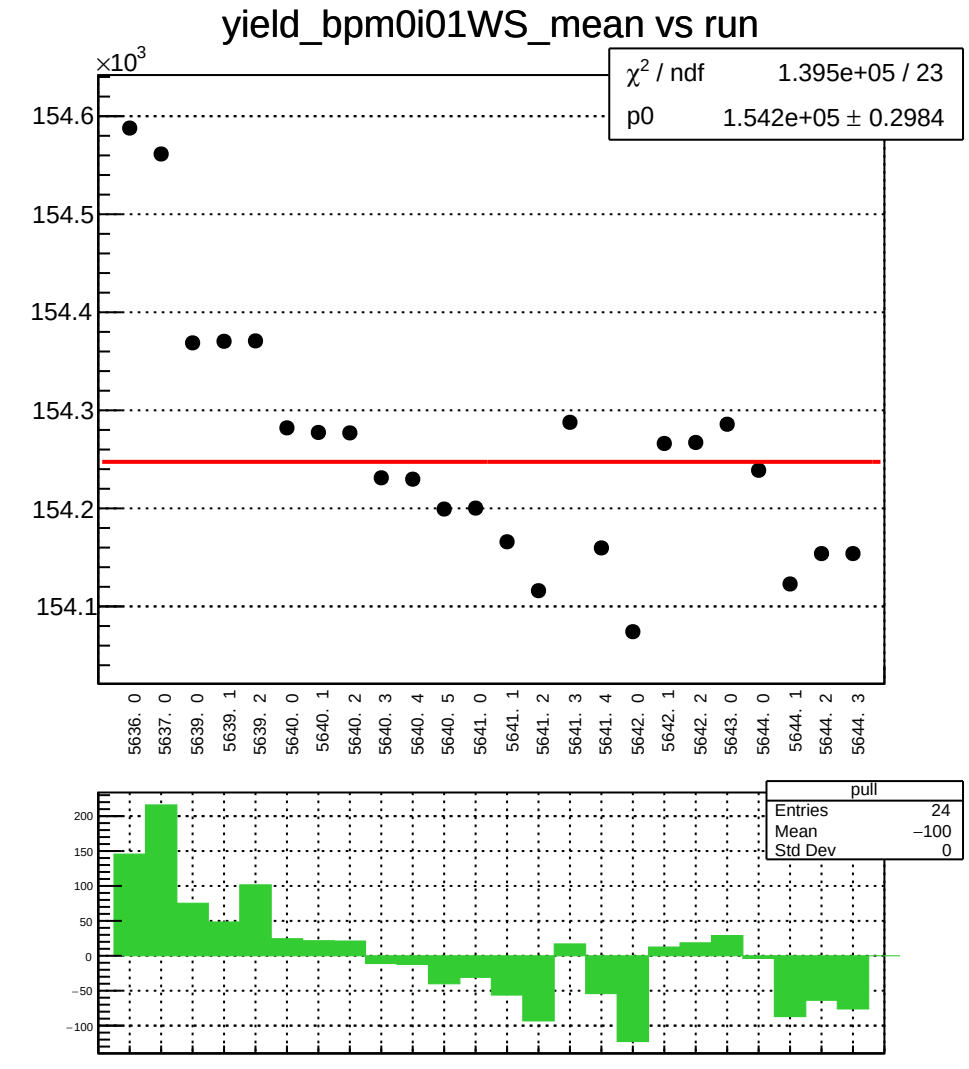

yield_bpm2i01WS_rms vs run
χ² / ndf 4482 / 23
p0 123.1 ± 0.1781
220
200
180
160
140
120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

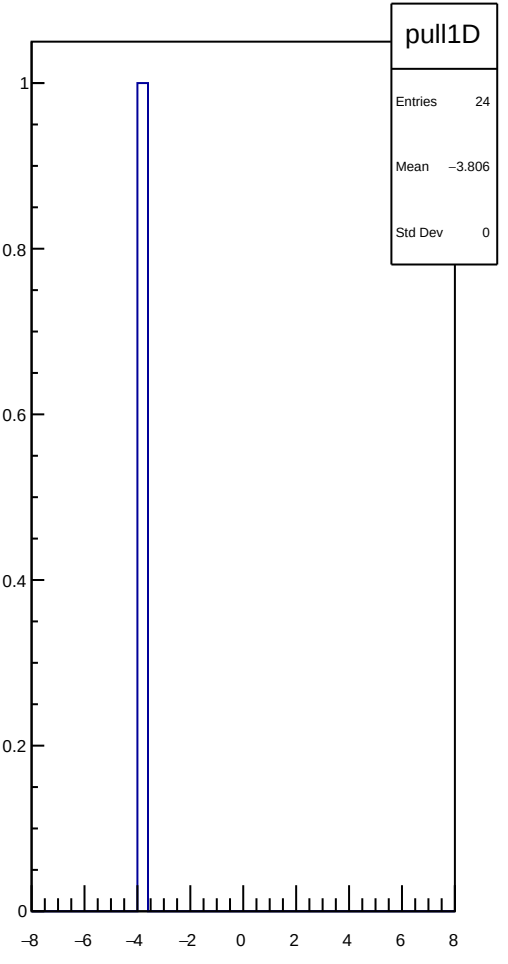

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 8.215e+04 / 23
p0 1.528e+05 ± 0.3317
153
152.95
152.9
152.85
152.8
152.75
152.7
152.65
152.6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

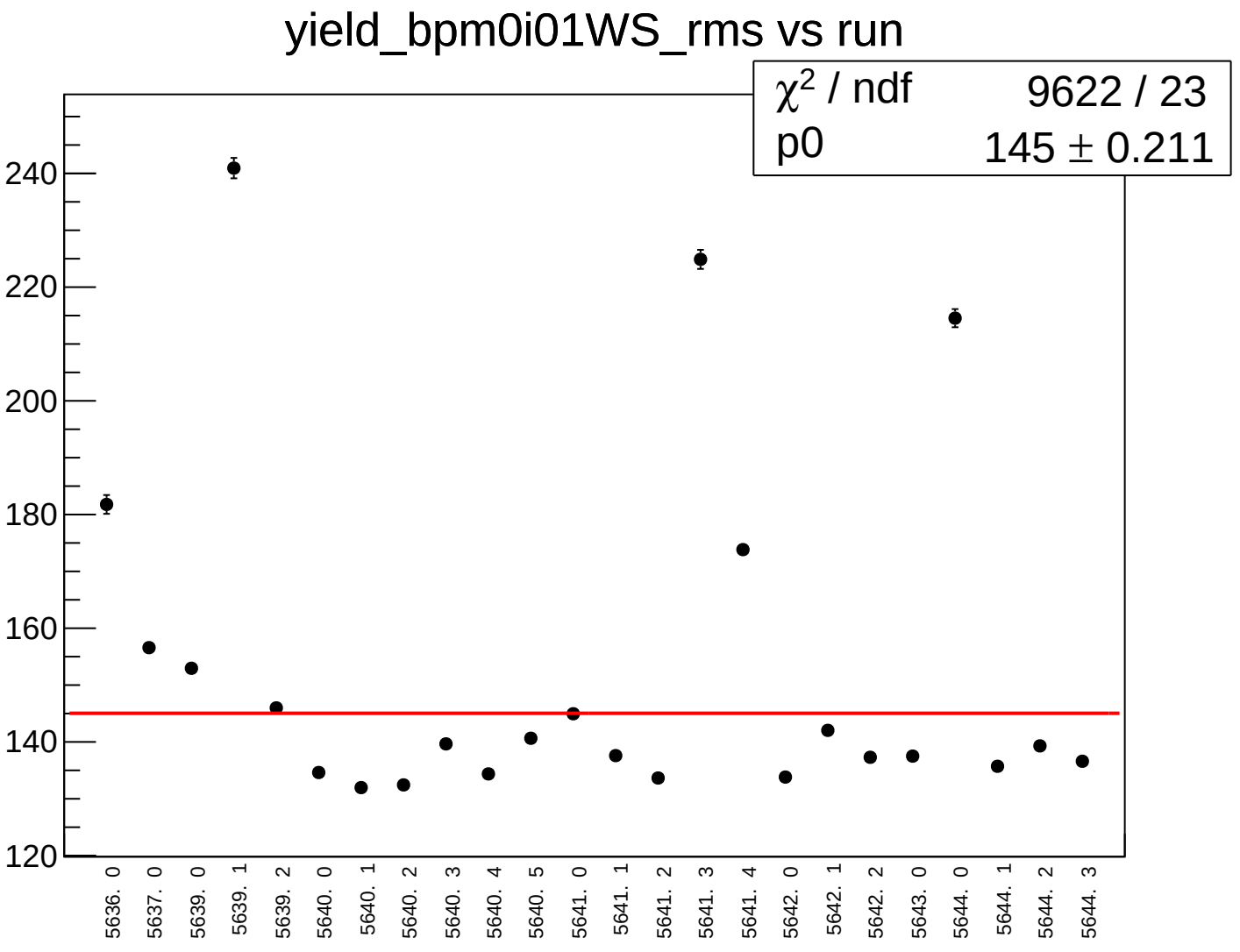

pull
Entries 24
Mean 39.53
Std Dev 37.46
80
60
40
20
0
−20
−40
−60
−80
−100

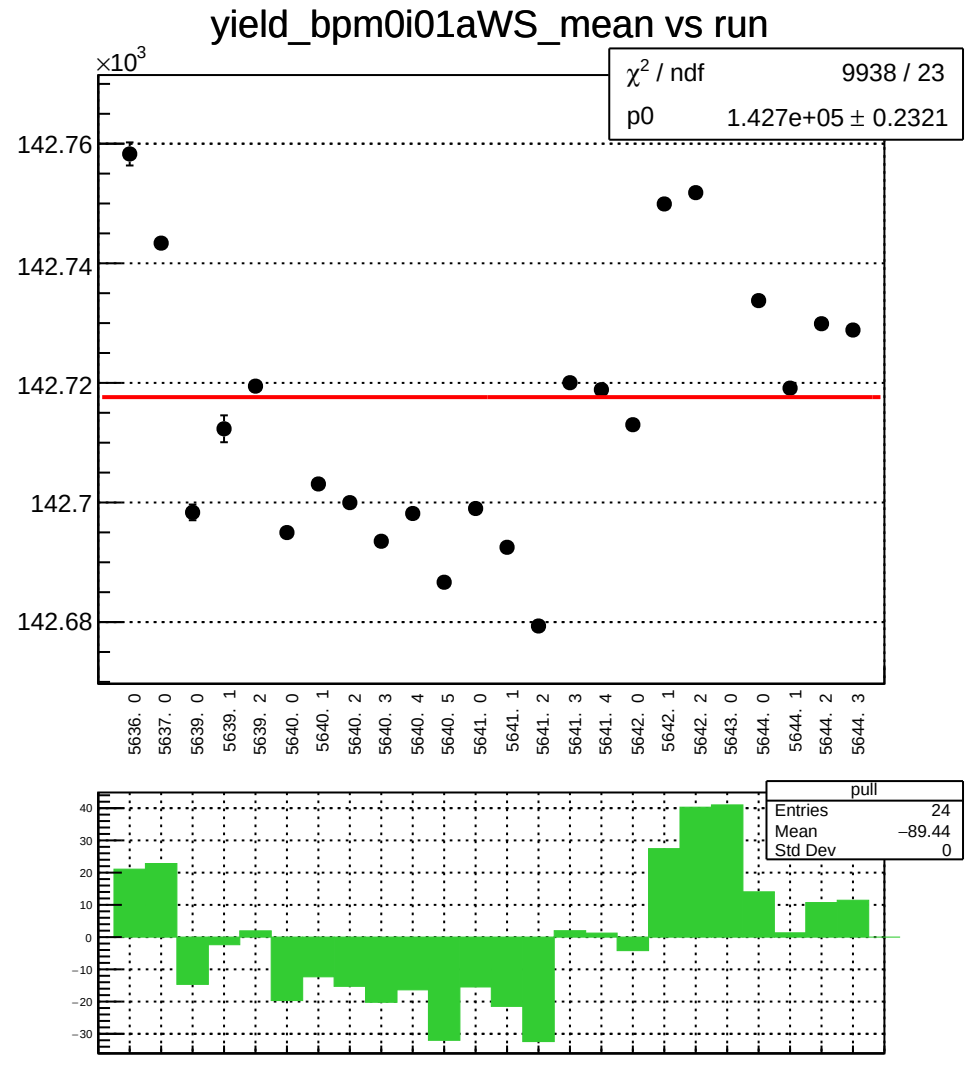

pull1D
Entries 24
Mean −0.6872
Std Dev 5.324
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

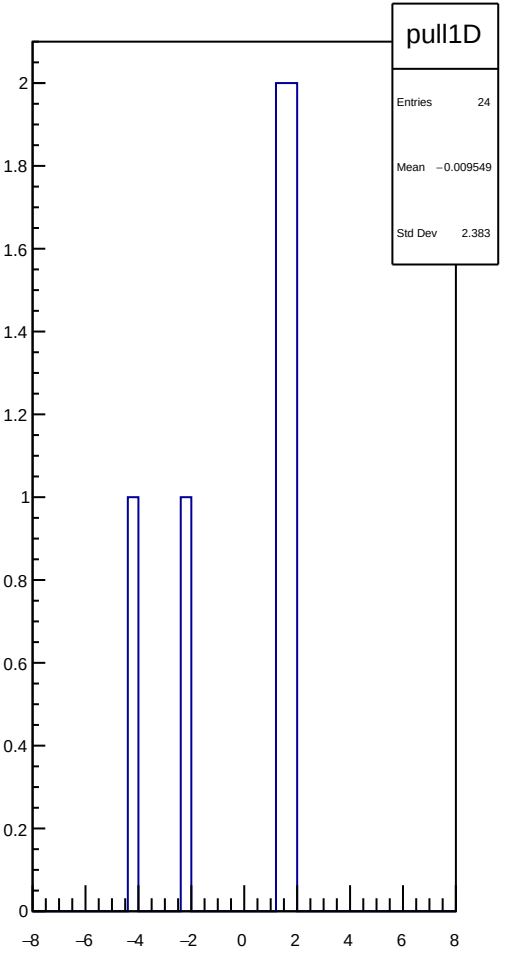

yield_bpm0i07WS_rms vs run
χ² / ndf 2667 / 23
p0 162.4 ± 0.2346
240
220
200
180
160
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

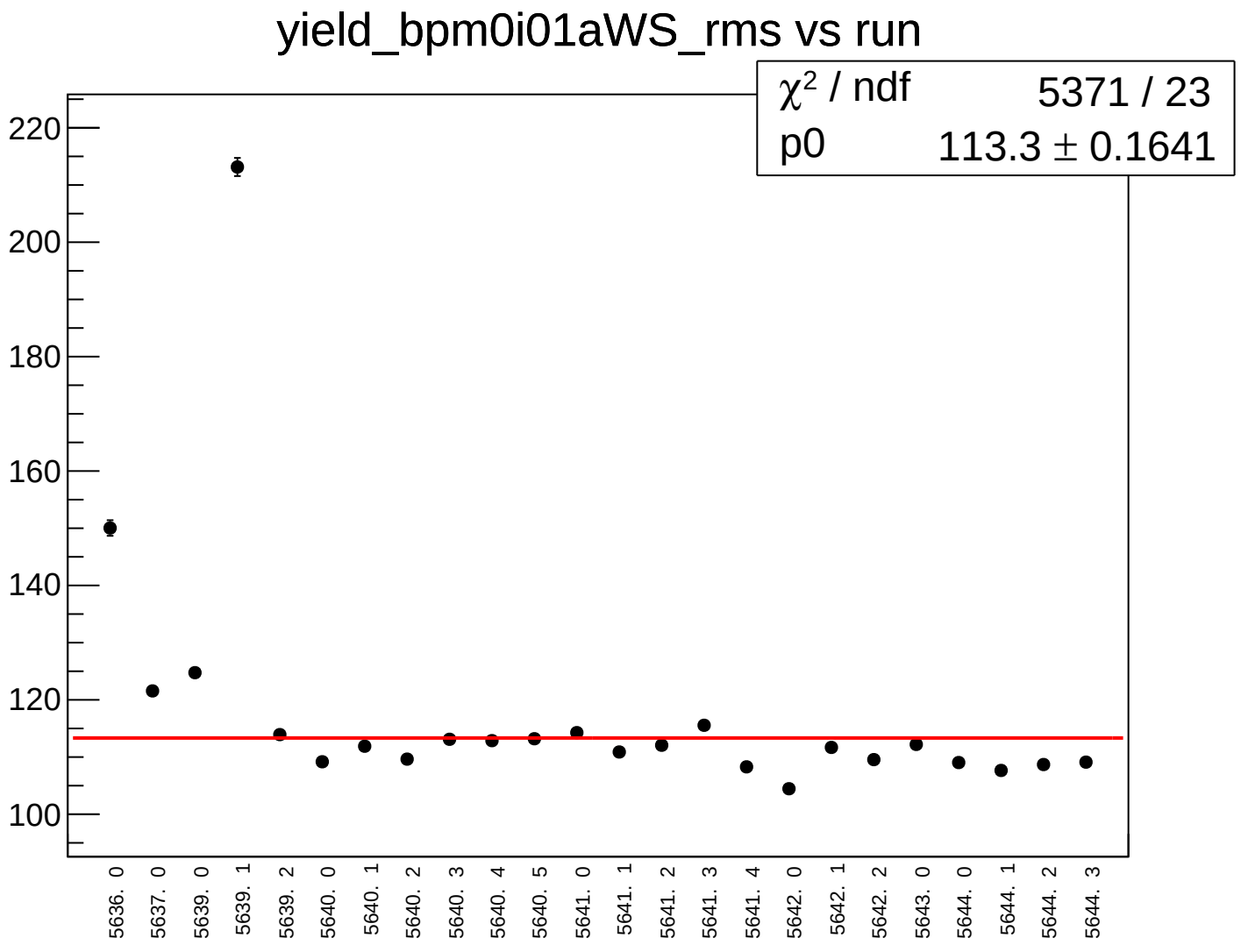

yield_bpm0i01WS_mean vs run
×10^3
χ^2 / ndf 1.395e+05 / 23
p0 1.542e+05 ± 0.2984
154.6
154.5
154.4
154.3
154.2
154.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −100
Std Dev 0
200
150
100
50
0
−50
−100

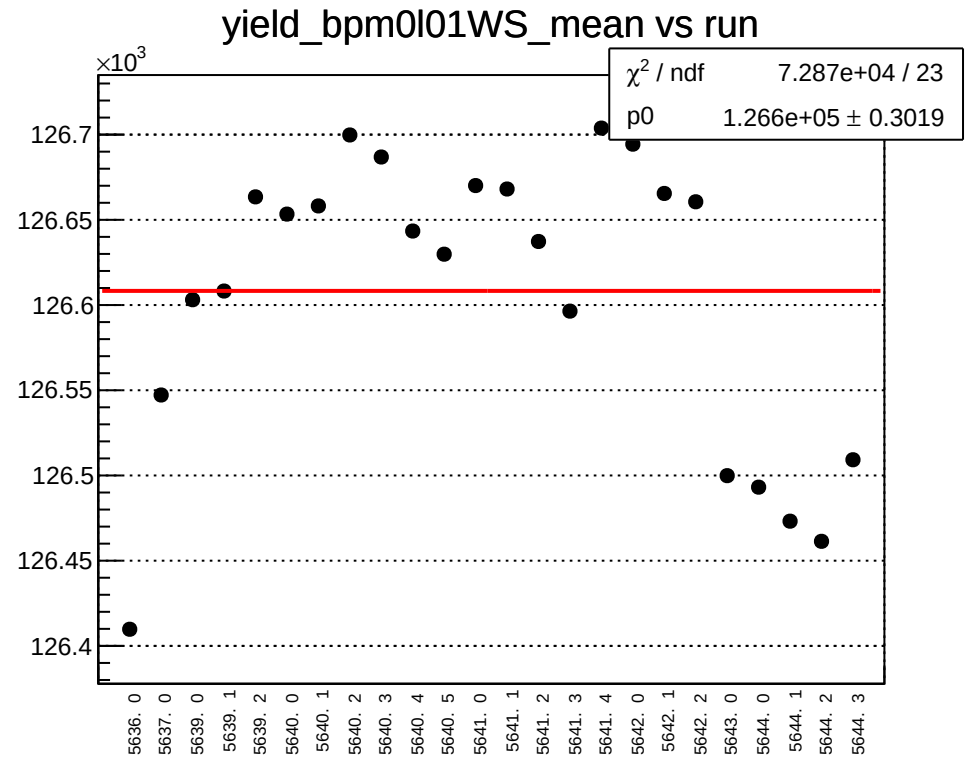

pull1D
Entries 24
Mean −3.806
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

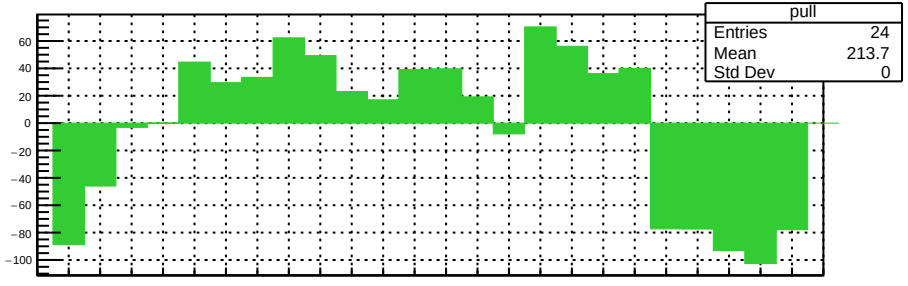

yield_bpm0i01WS_rms vs run
χ² / ndf 9622 / 23
p0 145 ± 0.211
240
220
200
180
160
140
120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

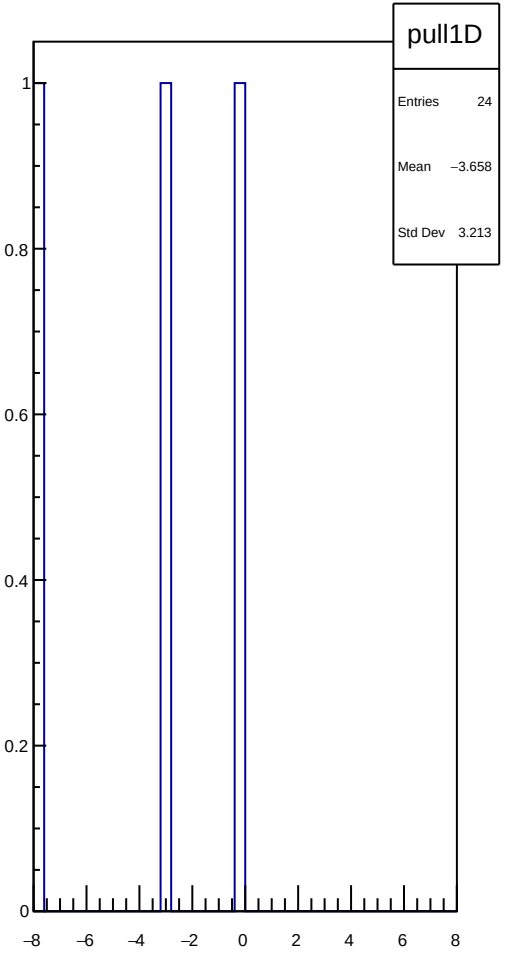

yield_bpm0i01aWS_mean vs run
×10^3
χ^2 / ndf 9938 / 23
p0 1.427e+05 ± 0.2321
142.76
142.74
142.72
142.7
142.68
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −89.44
Std Dev 0
40
30
20
10
0
−10
−20
−30

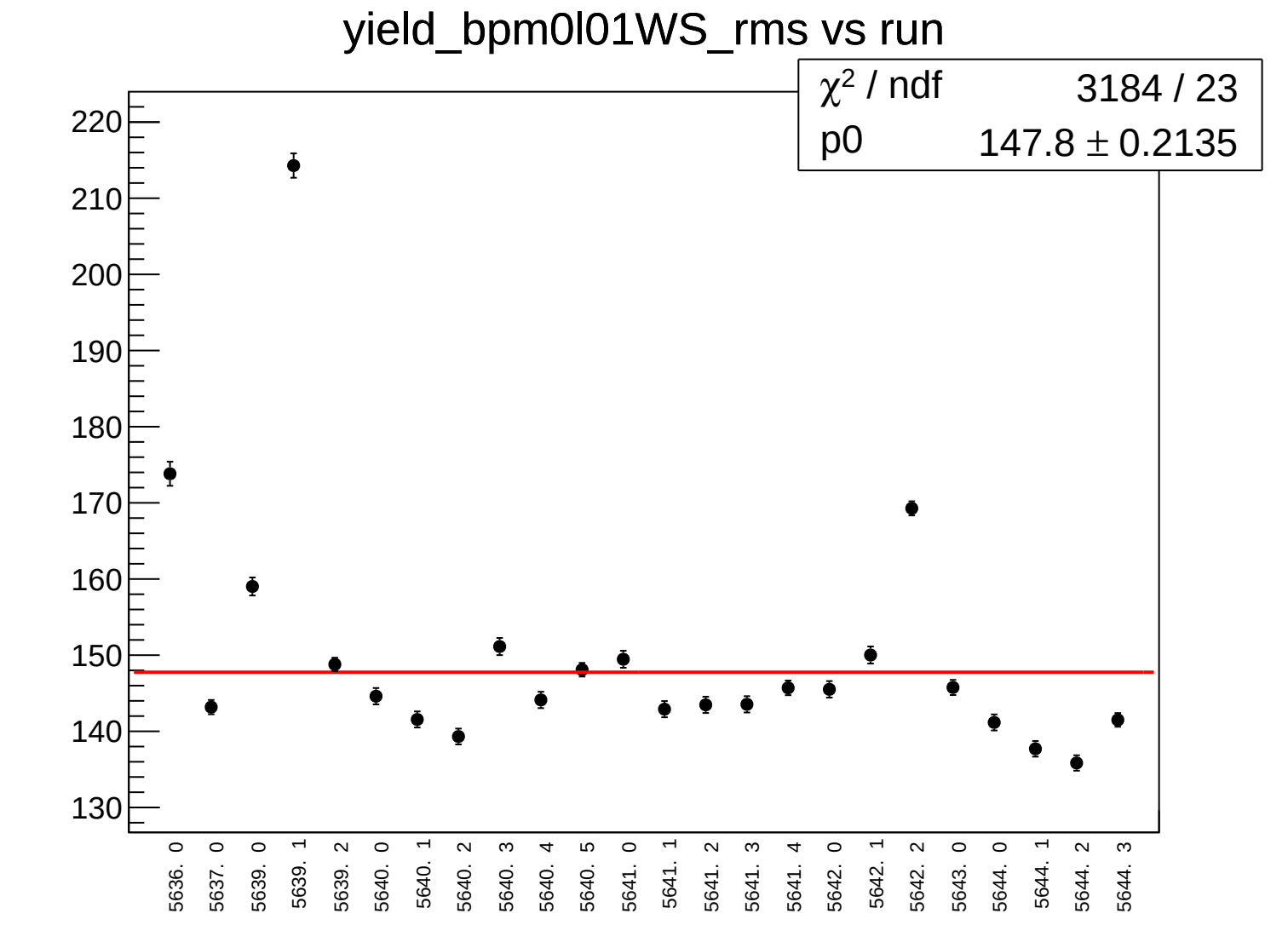

pull1D
Entries 24
Mean −0.009549
Std Dev 2.383
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

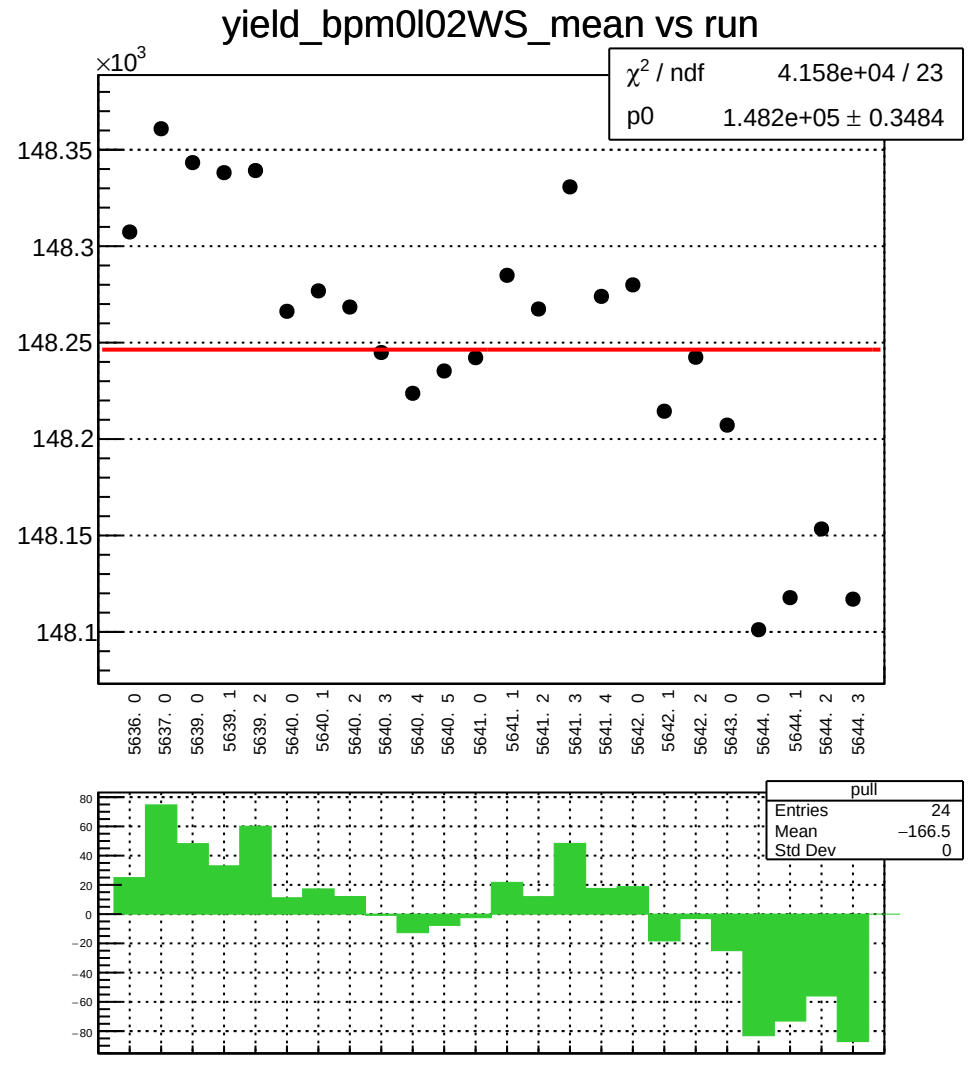

yield_bpm0i01aWS_rms vs run
χ² / ndf 5371 / 23
p0 113.3 ± 0.1641
220
200
180
160
140
120
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

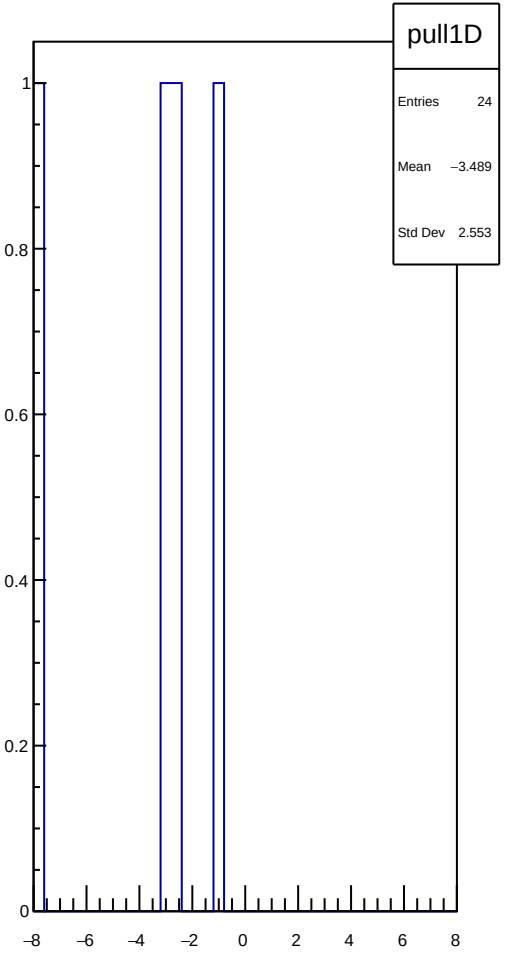

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 7.287e+04 / 23
p0 1.266e+05 ± 0.3019
126.7
126.65
126.6
126.55
126.5
126.45
126.4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

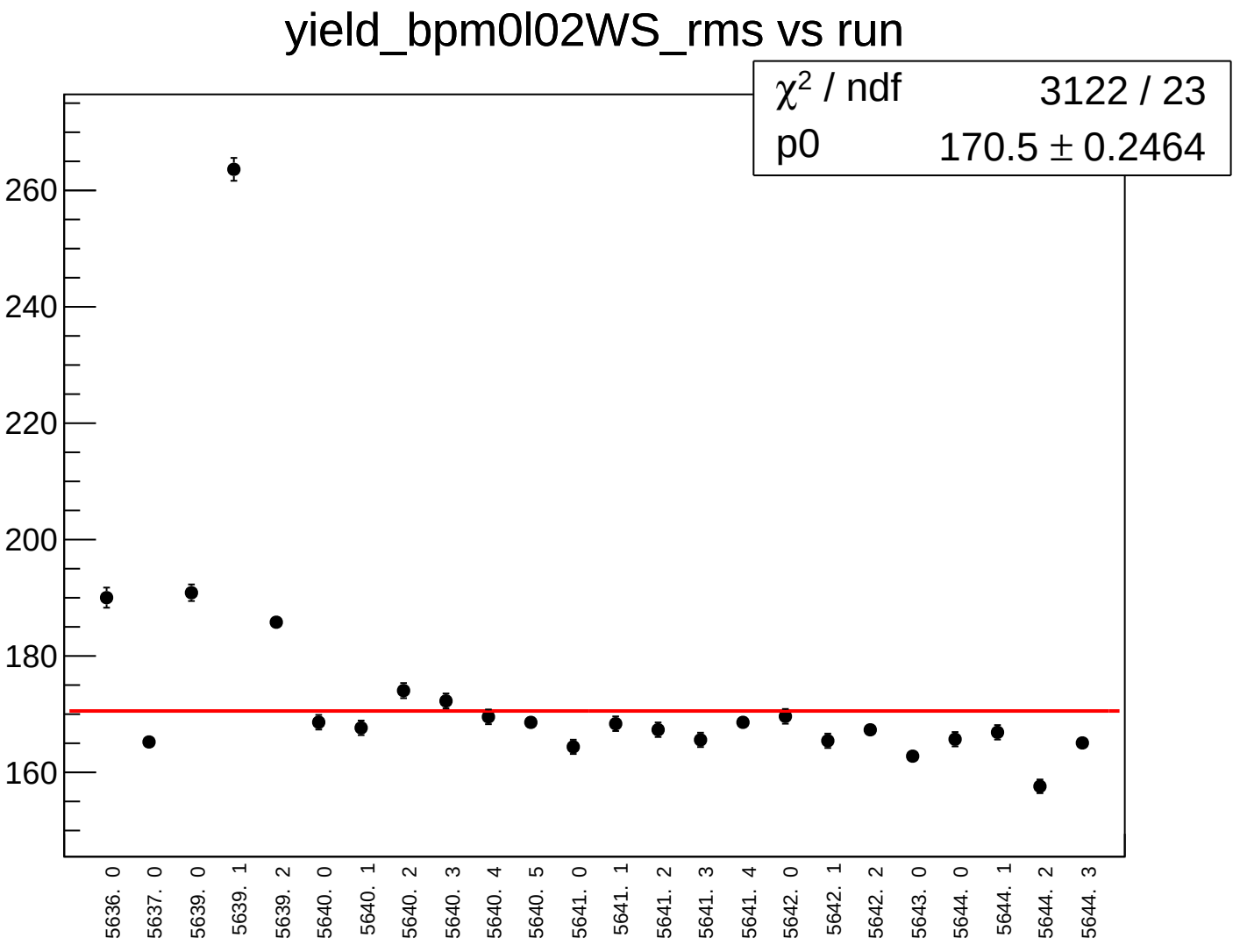

pull
Entries 24
Mean 213.7
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100

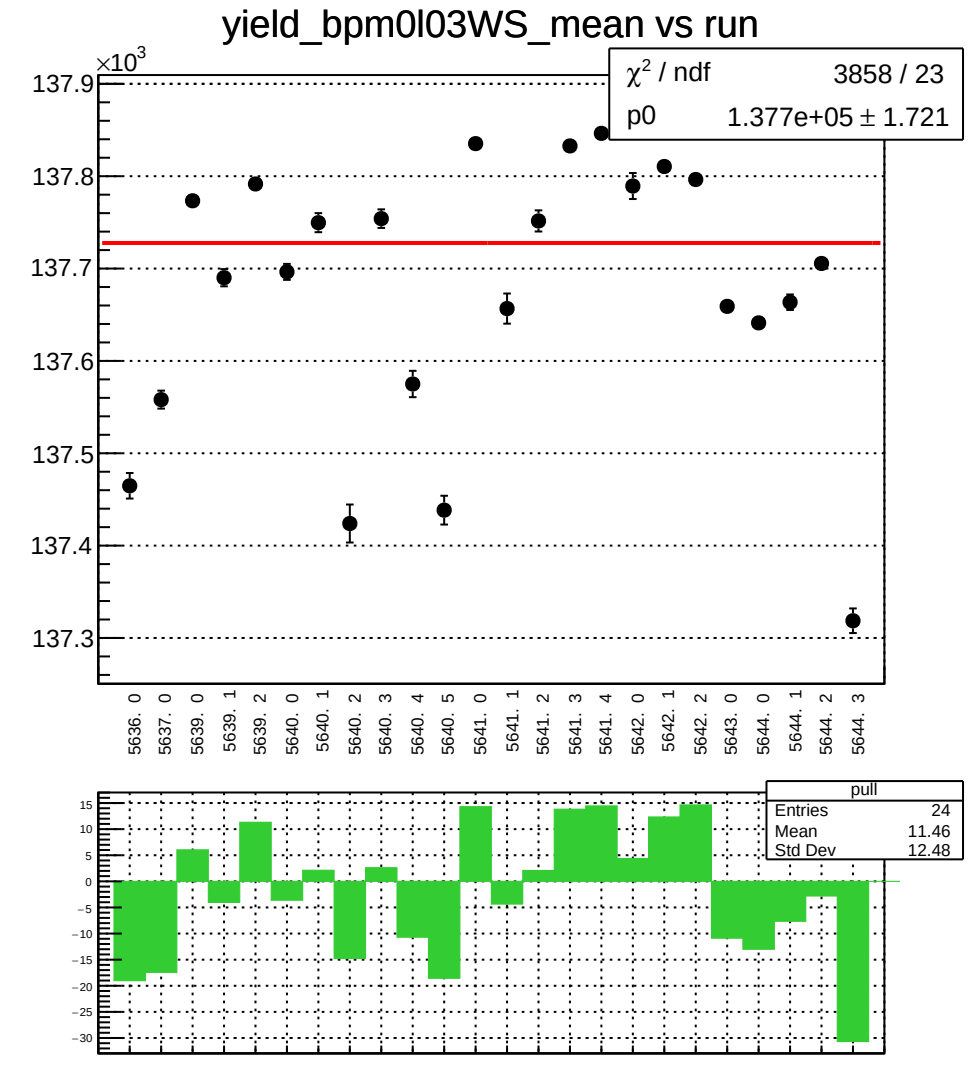

pull1D
Entries 24
Mean −3.658
Std Dev 3.213
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

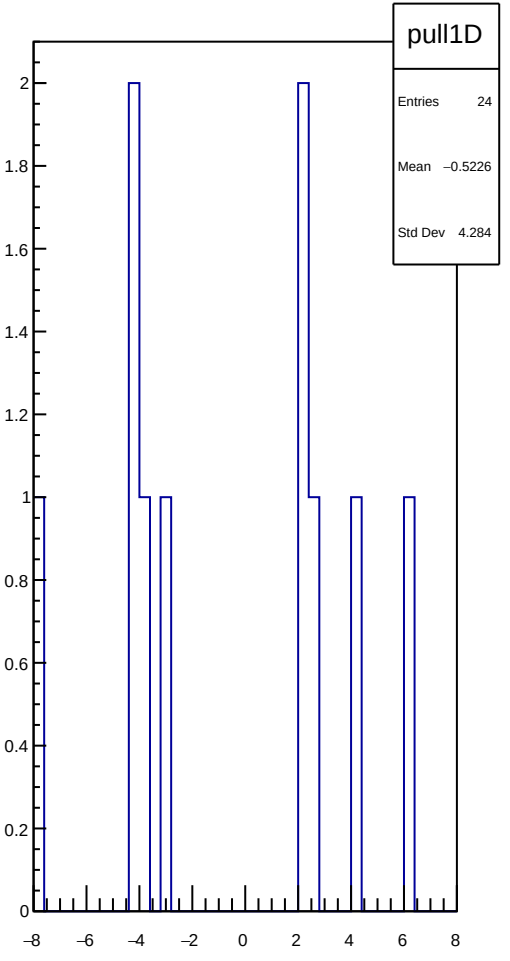

yield_bpm0l01WS_rms vs run
χ² / ndf 3184 / 23
p0 147.8 ± 0.2135
220
210
200
190
180
170
160
150
140
130
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

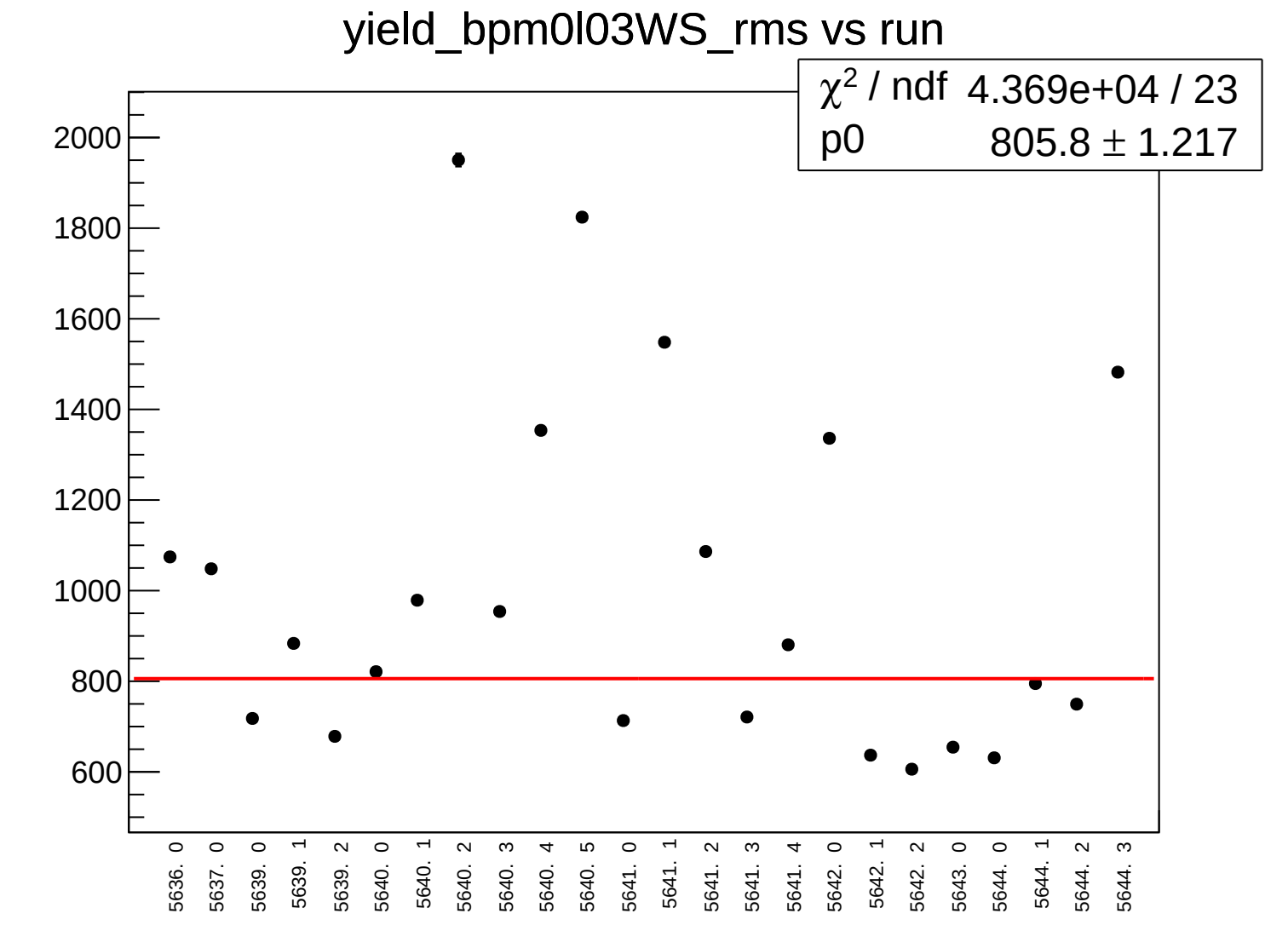

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 4.158e+04 / 23
p0 1.482e+05 ± 0.3484
148.35
148.3
148.25
148.2
148.15
148.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −166.5
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

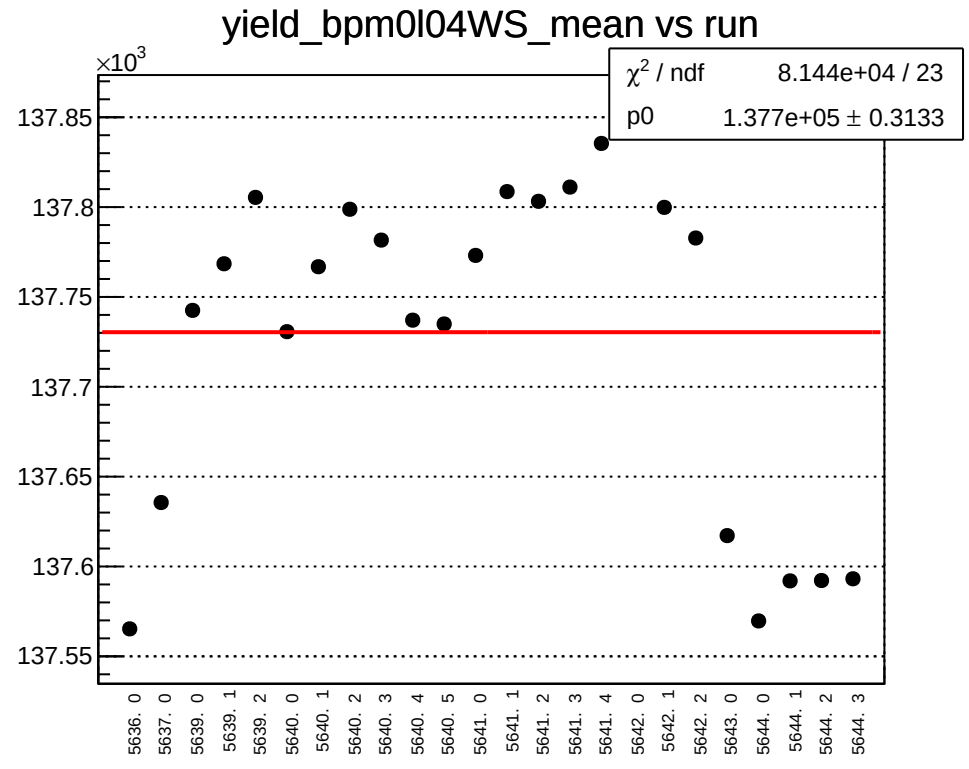

pull1D
Entries 24
Mean −3.489
Std Dev 2.553
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

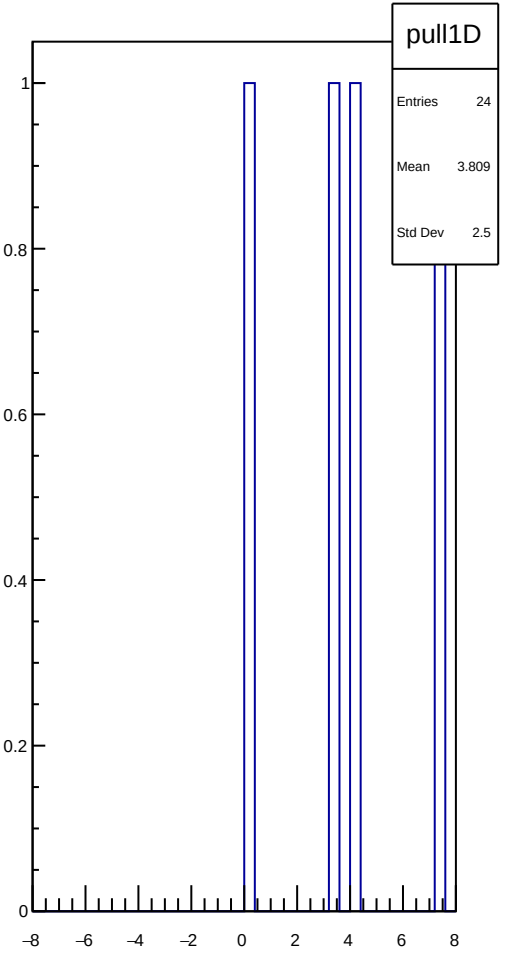

yield_bpm0l02WS_rms vs run
χ² / ndf 3122 / 23
p0 170.5 ± 0.2464
260
240
220
200
180
160
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

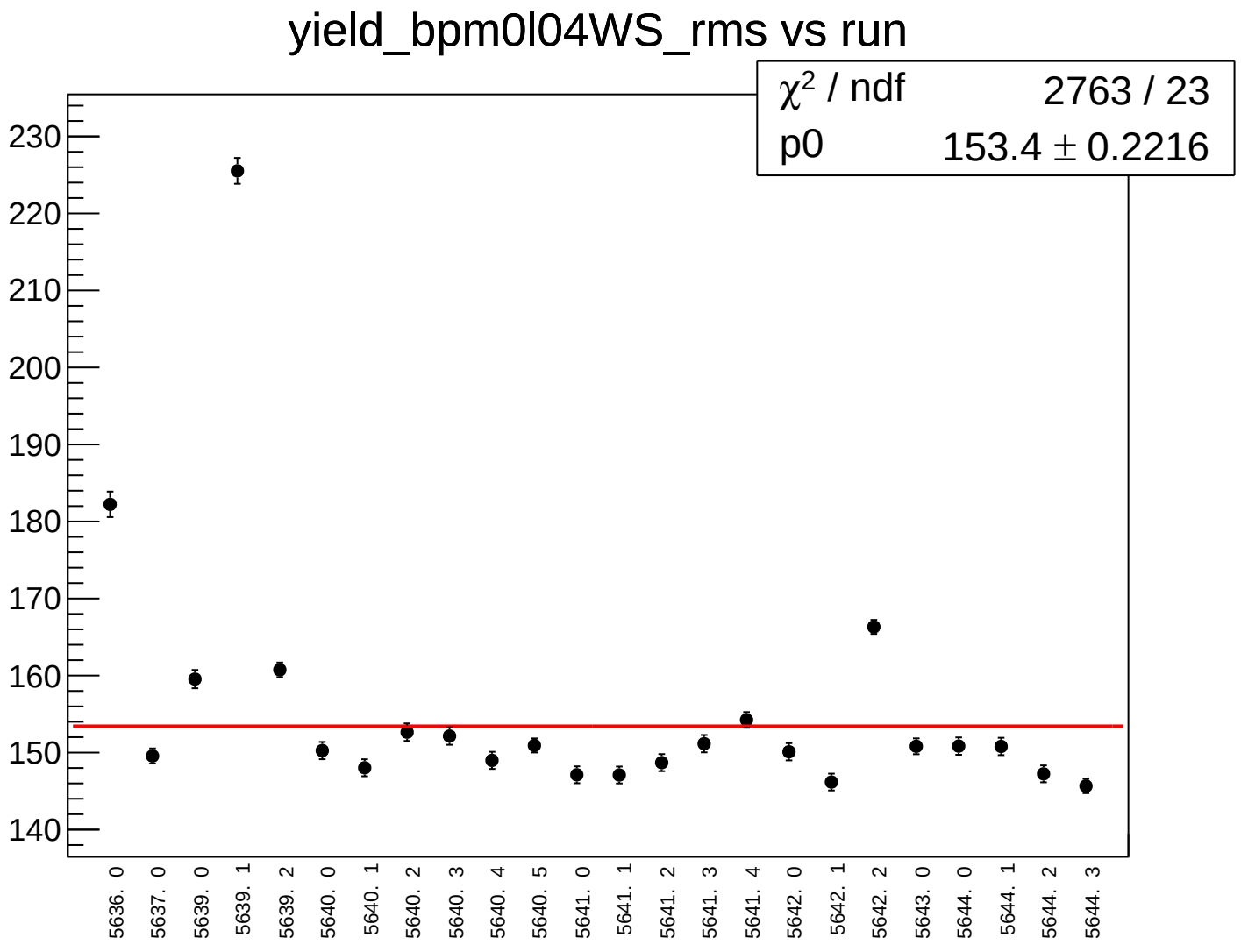

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 3858 / 23
p0 1.377e+05 ± 1.721
137.9
137.8
137.7
137.6
137.5
137.4
137.3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 11.46
Std Dev 12.48
15
10
5
0
−5
−10
−15
−20
−25
−30

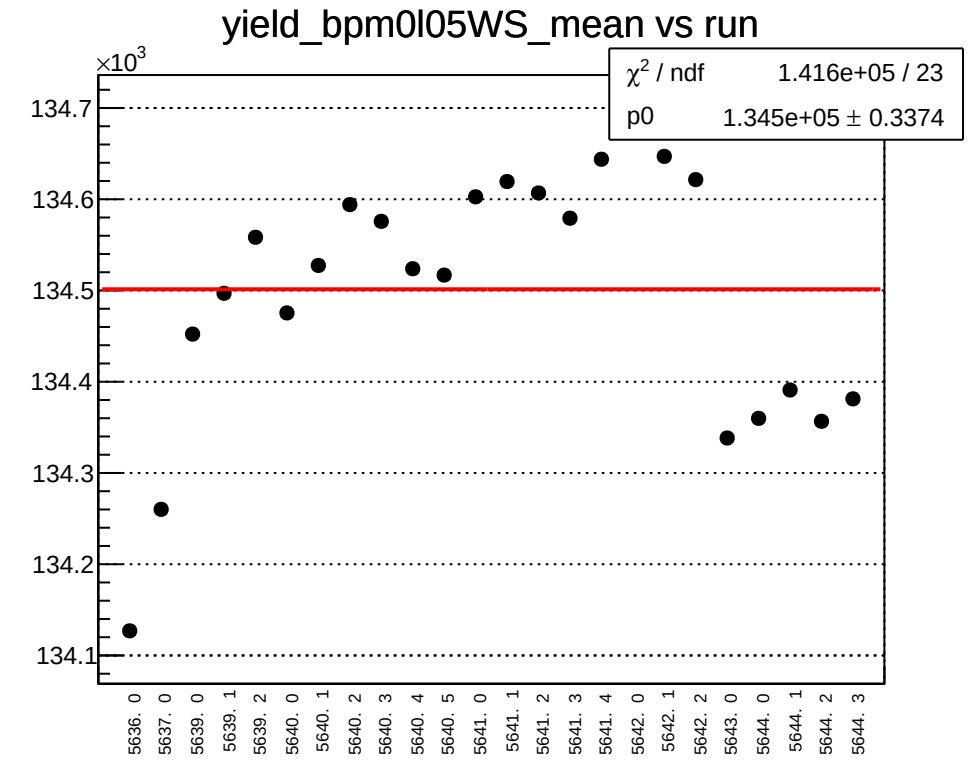

pull1D
Entries 24
Mean −0.5226
Std Dev 4.284
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

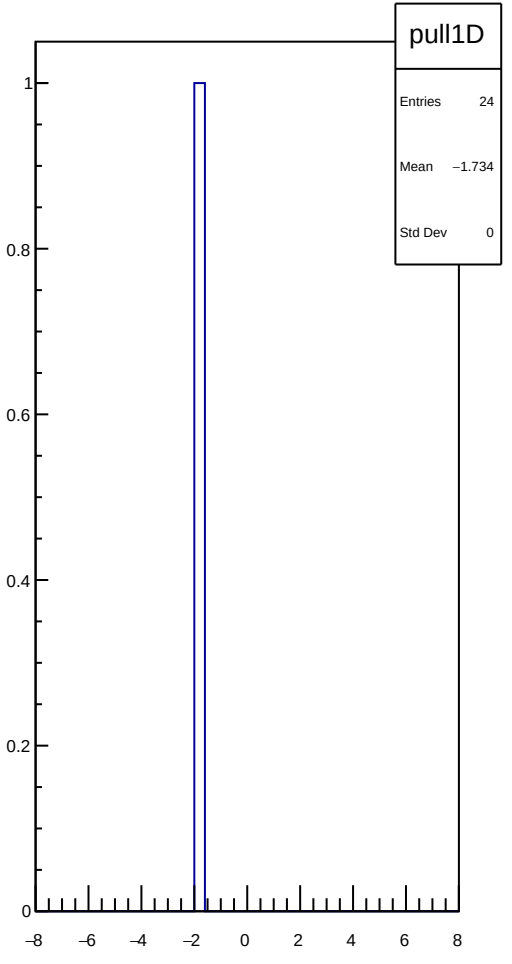

yield_bpm0l03WS_rms vs run
χ² / ndf 4.369e+04 / 23
p0 805.8 ± 1.217
2000
1800
1600
1400
1200
1000
800
600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

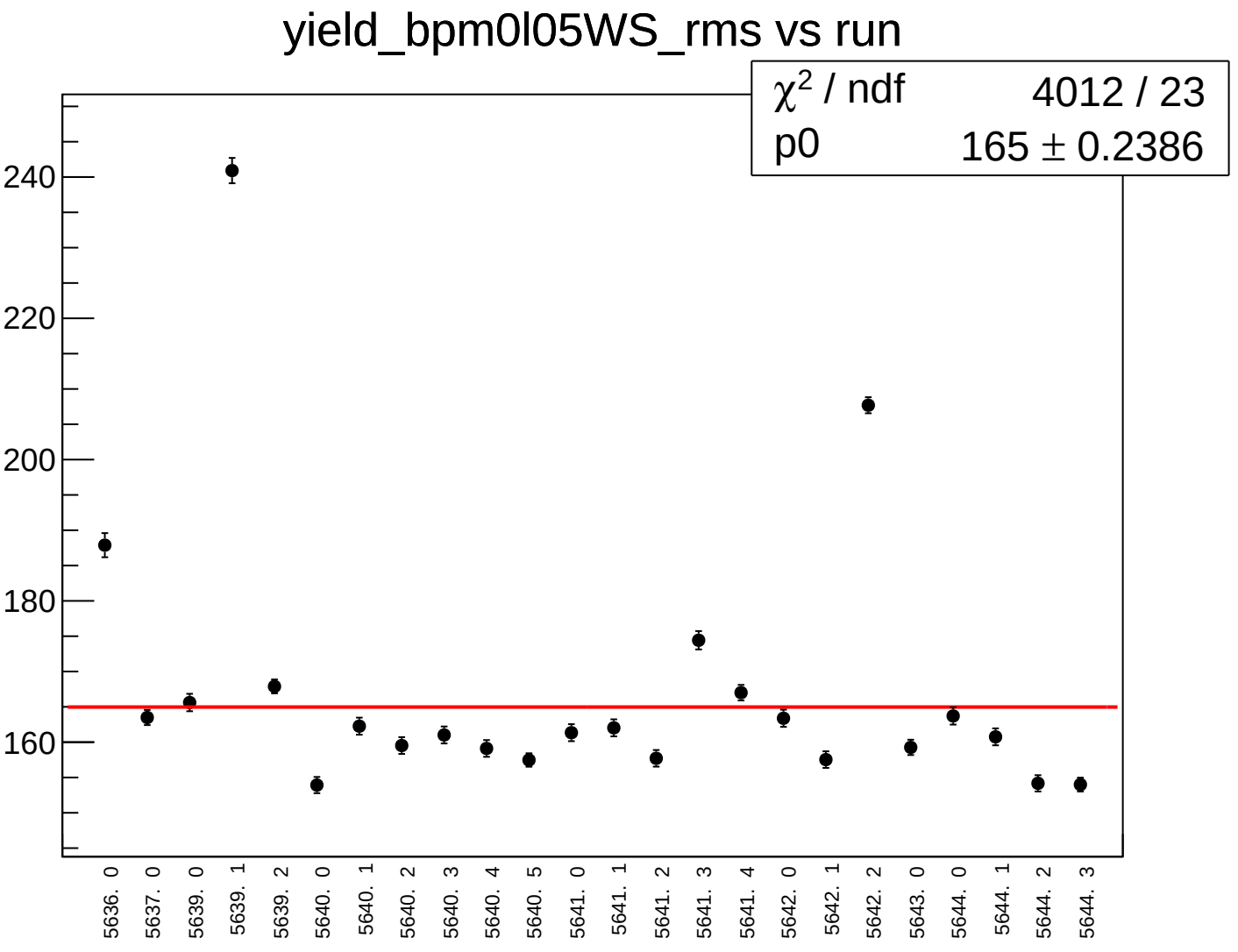

yield_bpm0l04WS_mean vs run
×10^3
χ^2 / ndf 8.144e+04 / 23
p0 1.377e+05 ± 0.3133
137.85
137.8
137.75
137.7
137.65
137.6
137.55
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 354.8
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

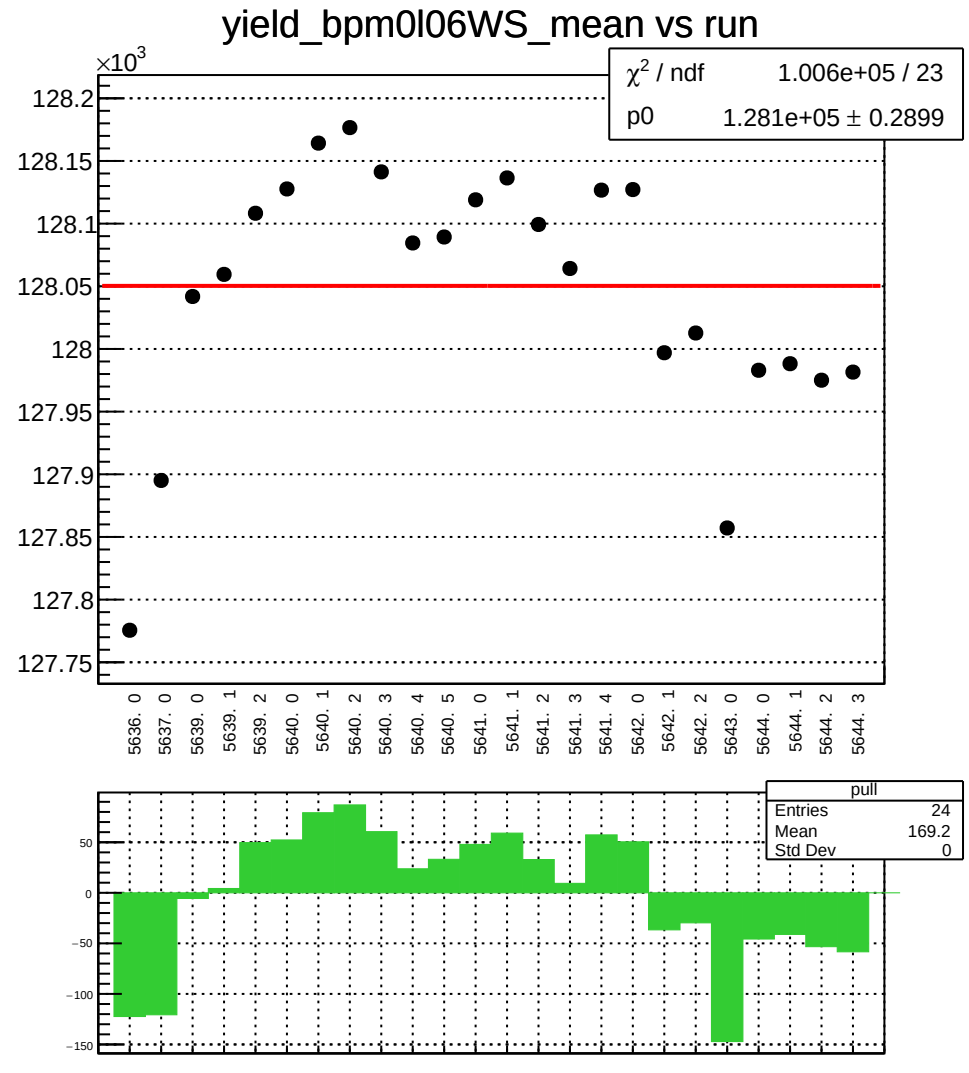

pull1D
Entries 24
Mean 3.809
Std Dev 2.5
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

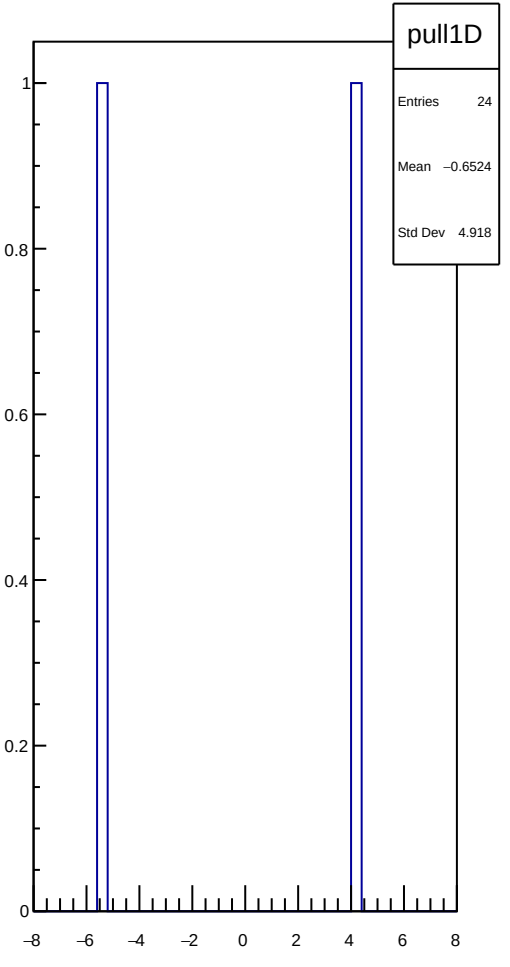

yield_bpm0l04WS_rms vs run
χ² / ndf 2763 / 23
p0 153.4 ± 0.2216
230
220
210
200
190
180
170
160
150
140
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

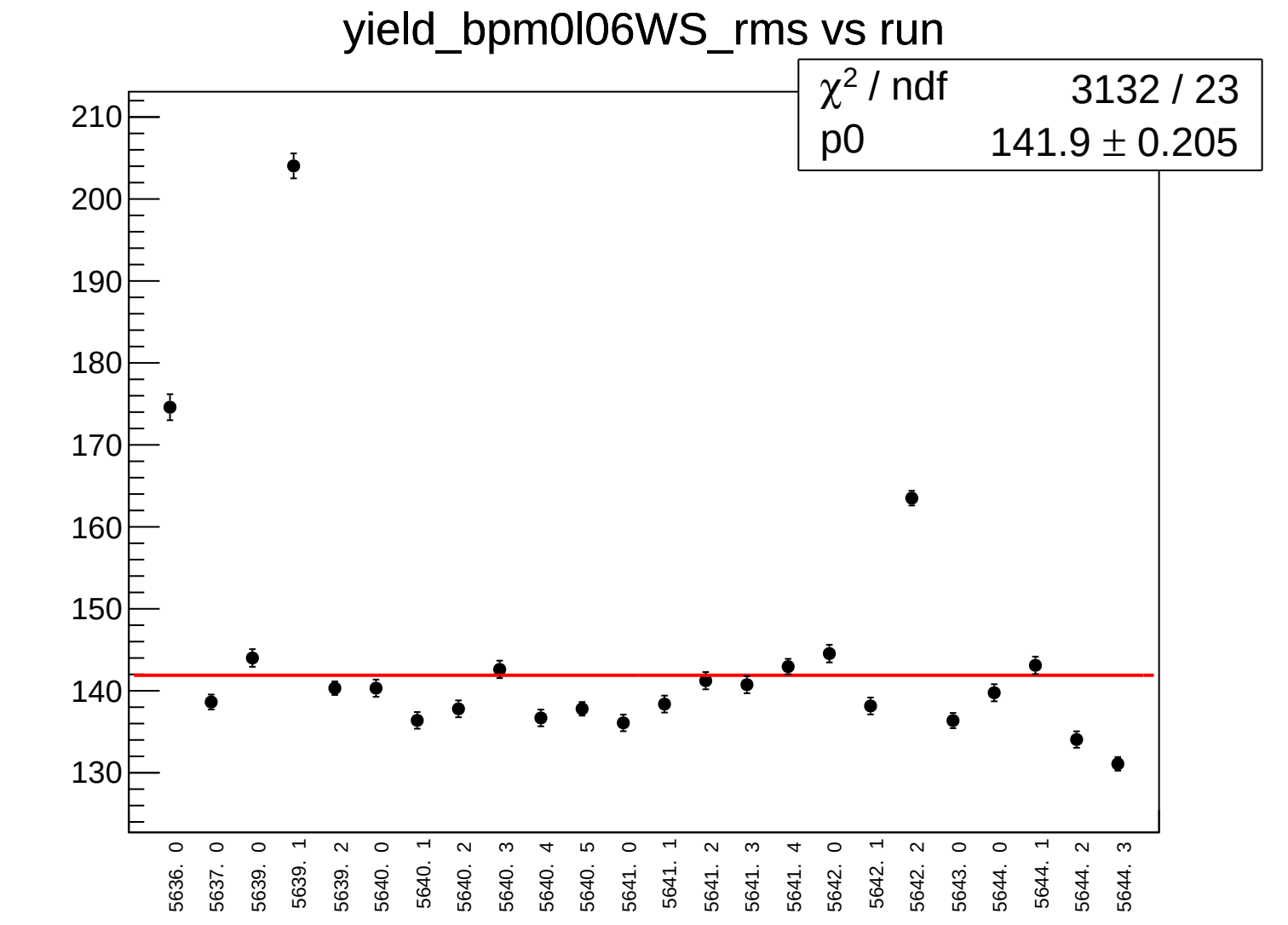

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 1.416e+05 / 23
p0 1.345e+05 ± 0.3374
134.7
134.6
134.5
134.4
134.3
134.2
134.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −41.43
Std Dev 32.56
100
50
0
−50
−100
−150

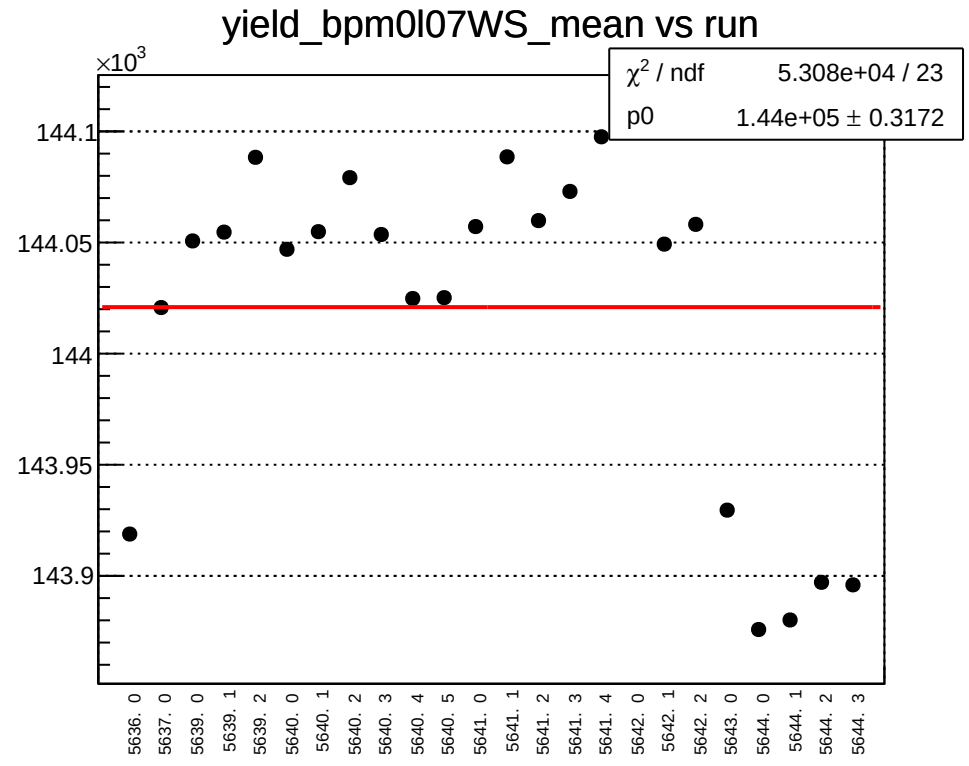

pull1D
Entries 24
Mean −1.734
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

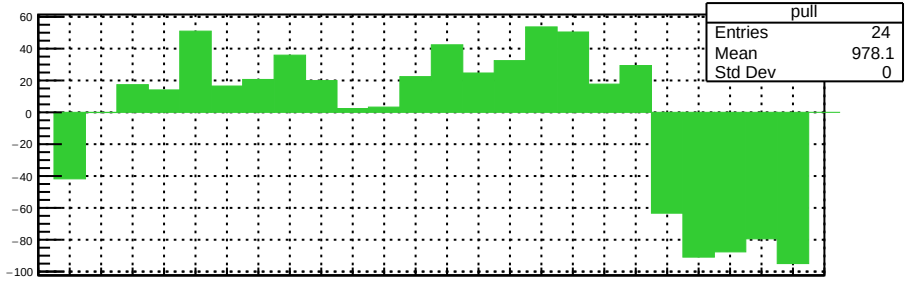

yield_bpm0l05WS_rms vs run
χ² / ndf 4012 / 23
p0 165 ± 0.2386
240
220
200
180
160
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

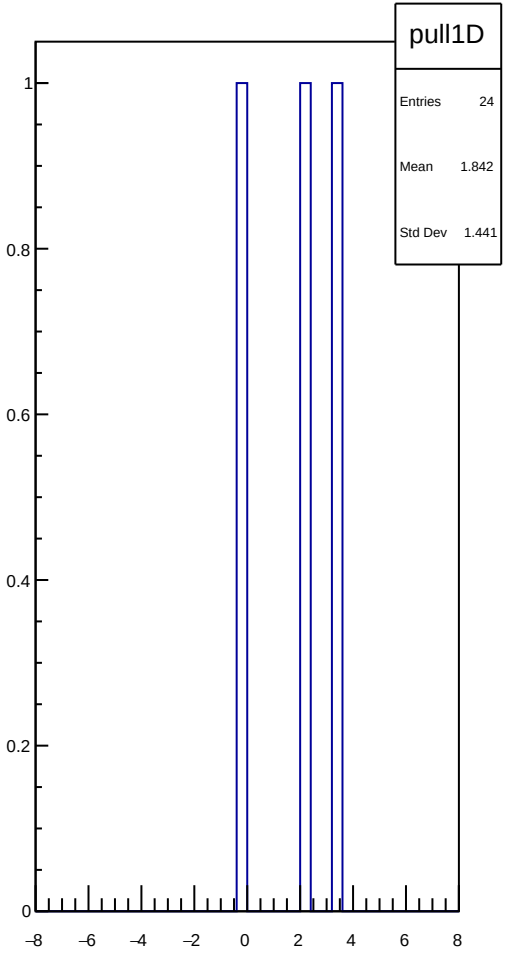

yield_bpm0l06WS_mean vs run
×10^3
χ^2 / ndf 1.006e+05 / 23
p0 1.281e+05 ± 0.2899
128.2
128.15
128.1
128.05
128
127.95
127.9
127.85
127.8
127.75
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 169.2
Std Dev 0
50
0
−50
−100
−150

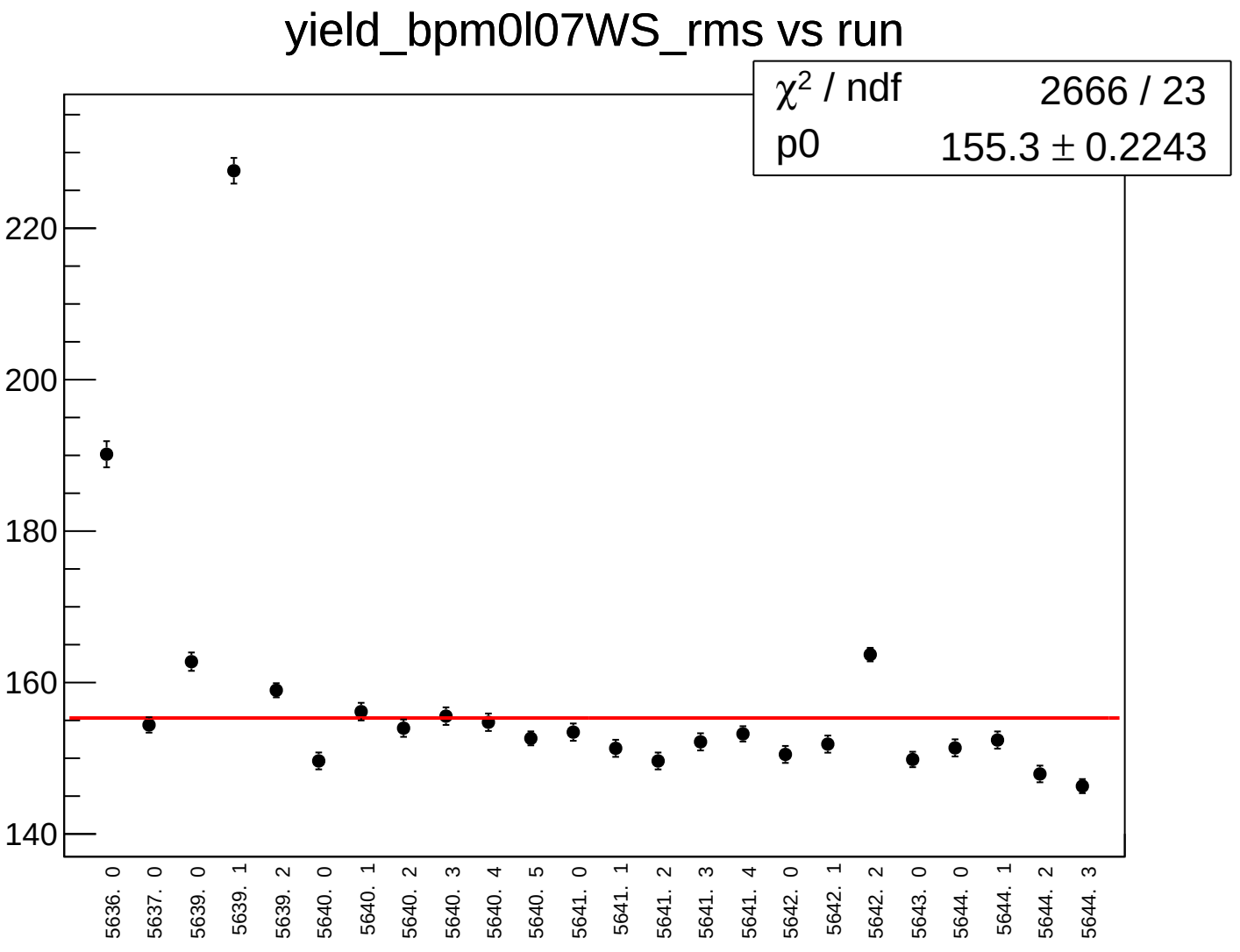

pull1D
Entries 24
Mean −0.6524
Std Dev 4.918
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

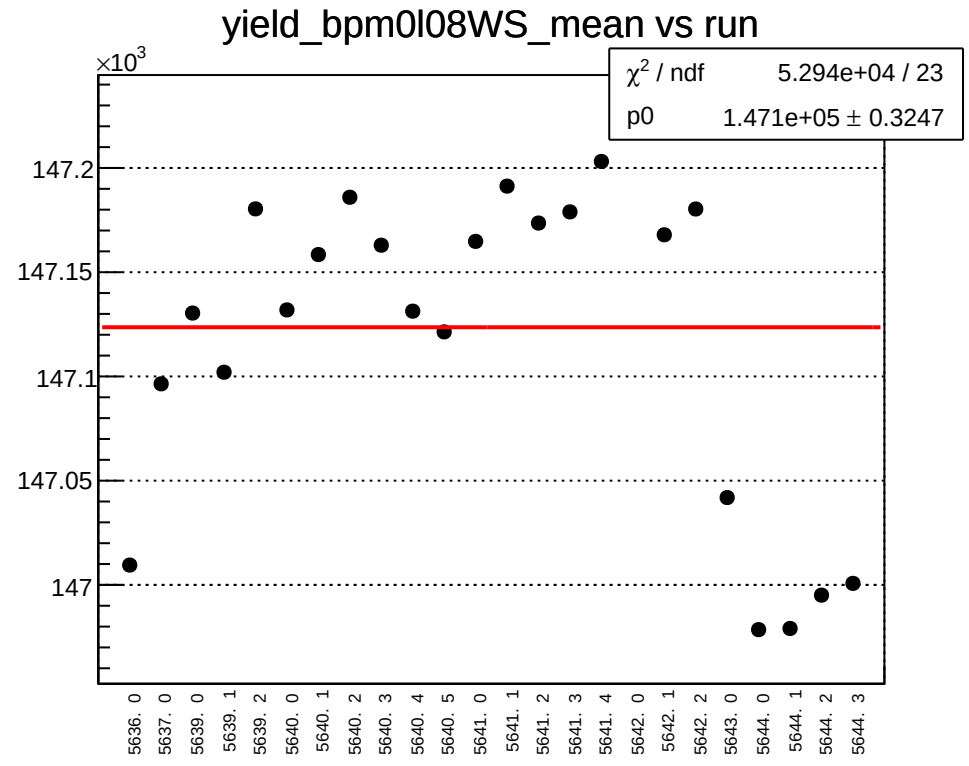

yield_bpm0l06WS_rms vs run
χ² / ndf 3132 / 23
p0 141.9 ± 0.205
210
200
190
180
170
160
150
140
130
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

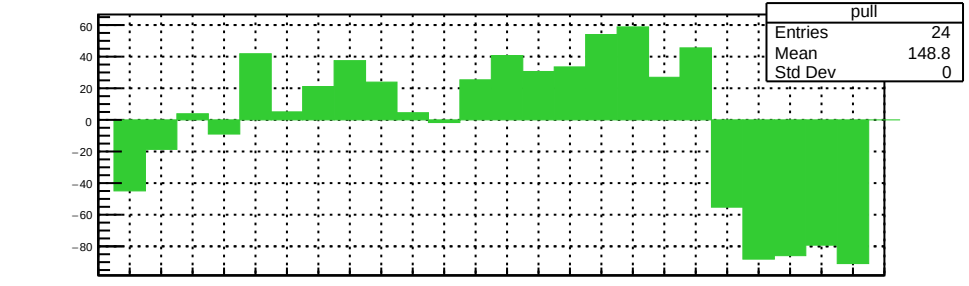

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 5.308e+04 / 23
p0 1.44e+05 ± 0.3172
144.1
144.05
144
143.95
143.9
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

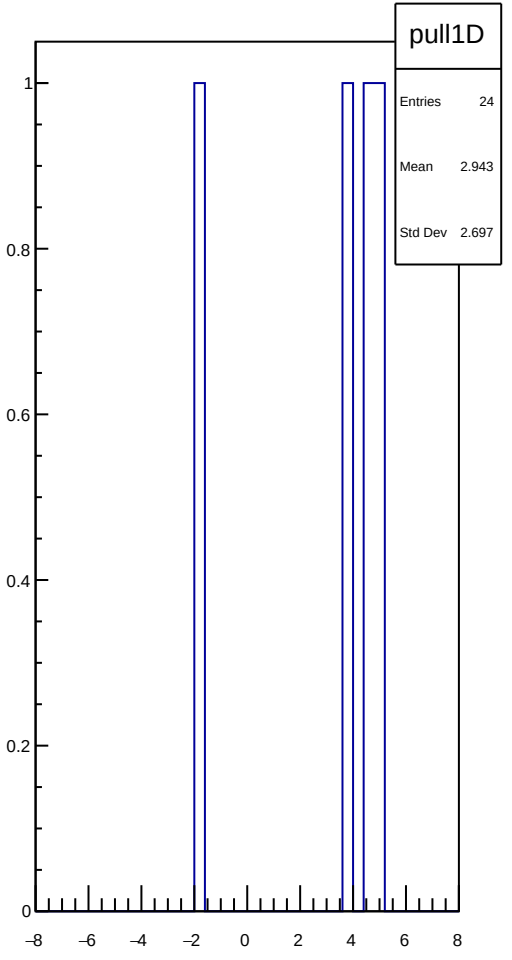

pull
Entries 24
Mean 978.1
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100

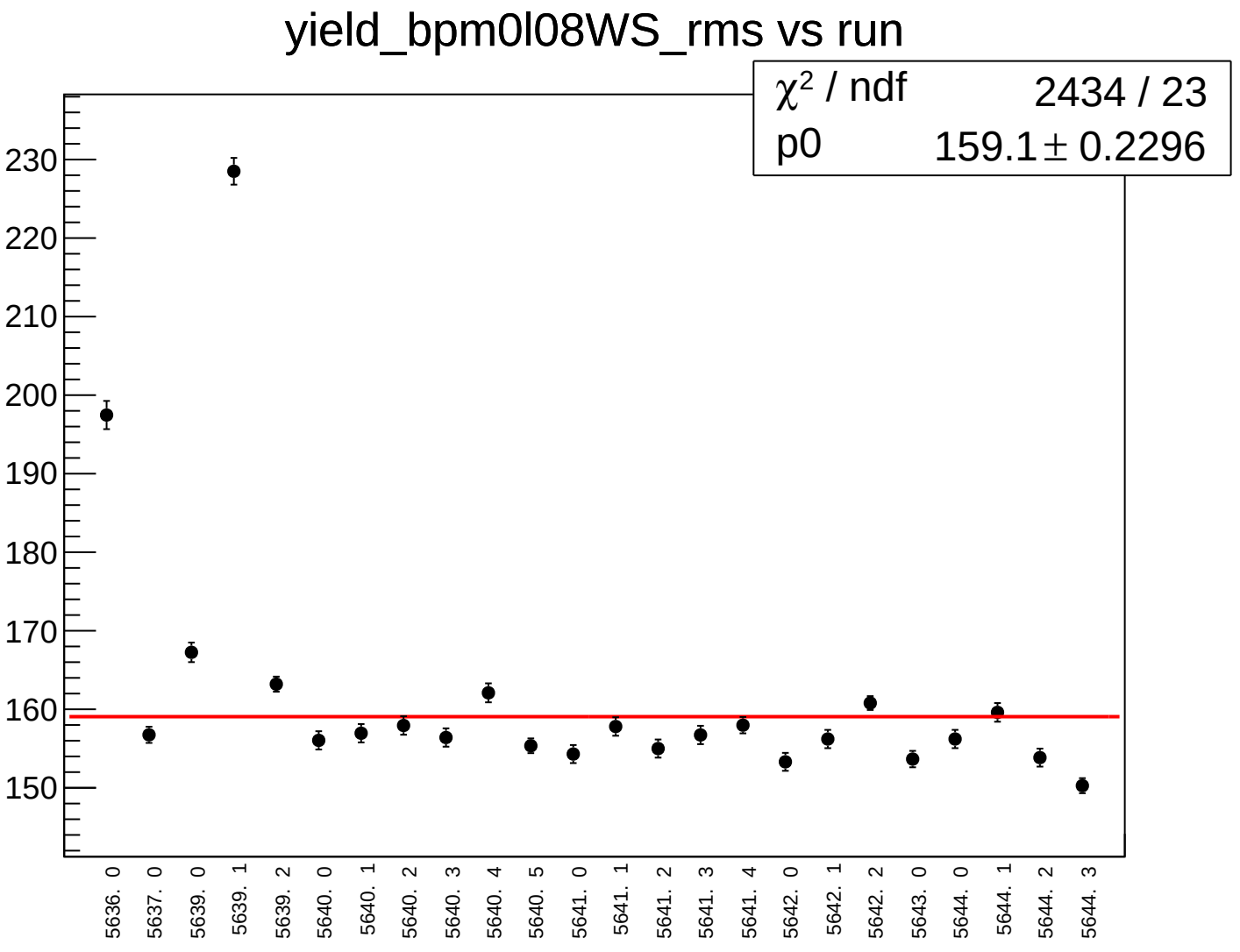

pull1D
Entries 24
Mean 1.842
Std Dev 1.441
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

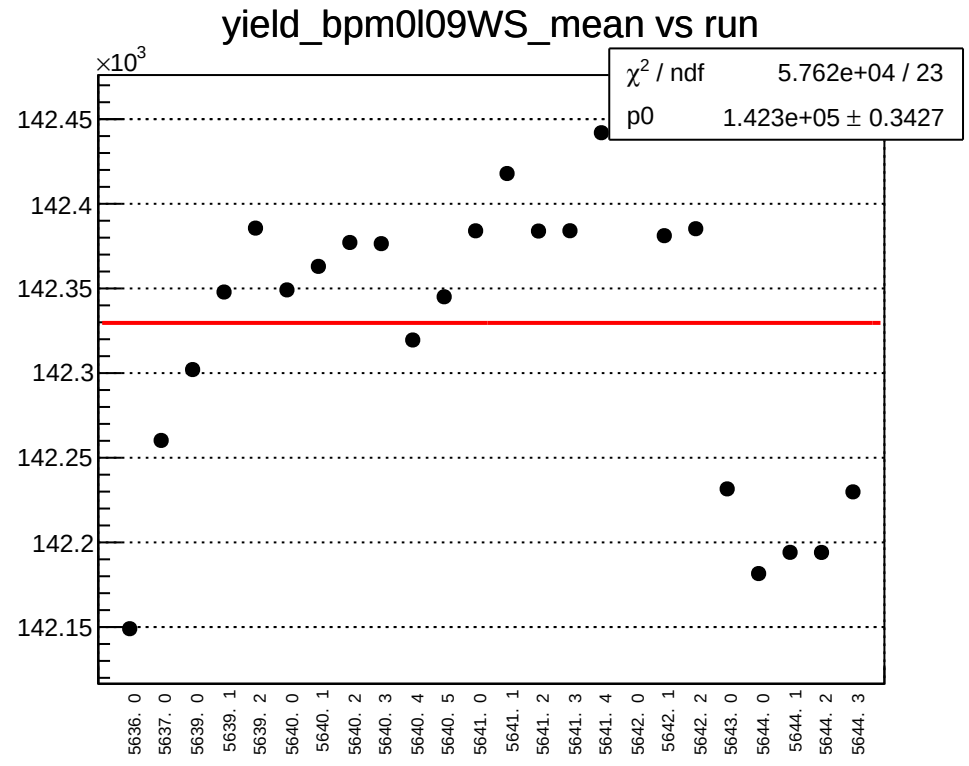

yield_bpm0l07WS_rms vs run
χ² / ndf 2666 / 23
p0 155.3 ± 0.2243
220
200
180
160
140
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

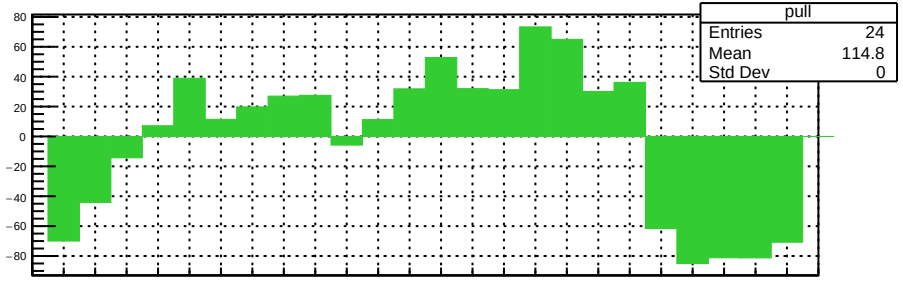

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 5.294e+04 / 23
p0 1.471e+05 ± 0.3247
147.2
147.15
147.1
147.05
147
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

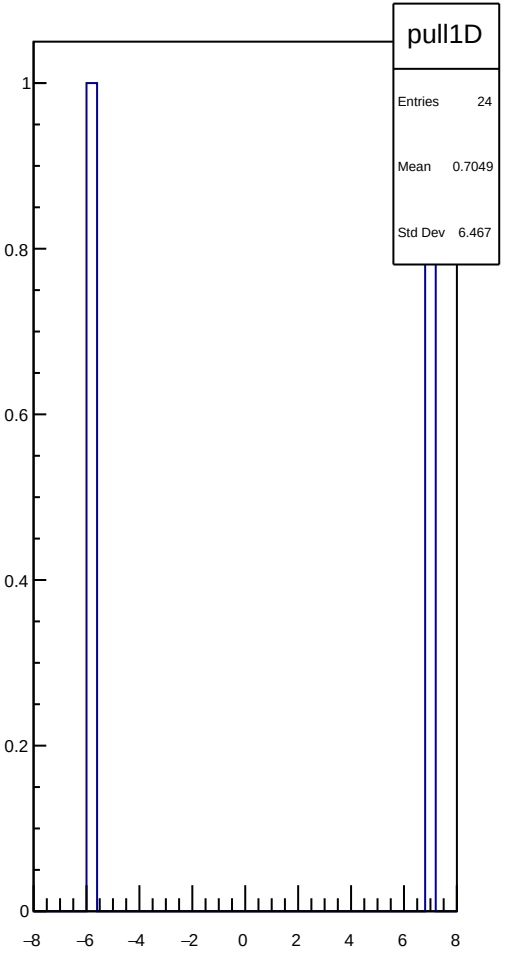

pull
Entries 24
Mean 148.8
Std Dev 0
60
40
20
0
−20
−40
−60
−80

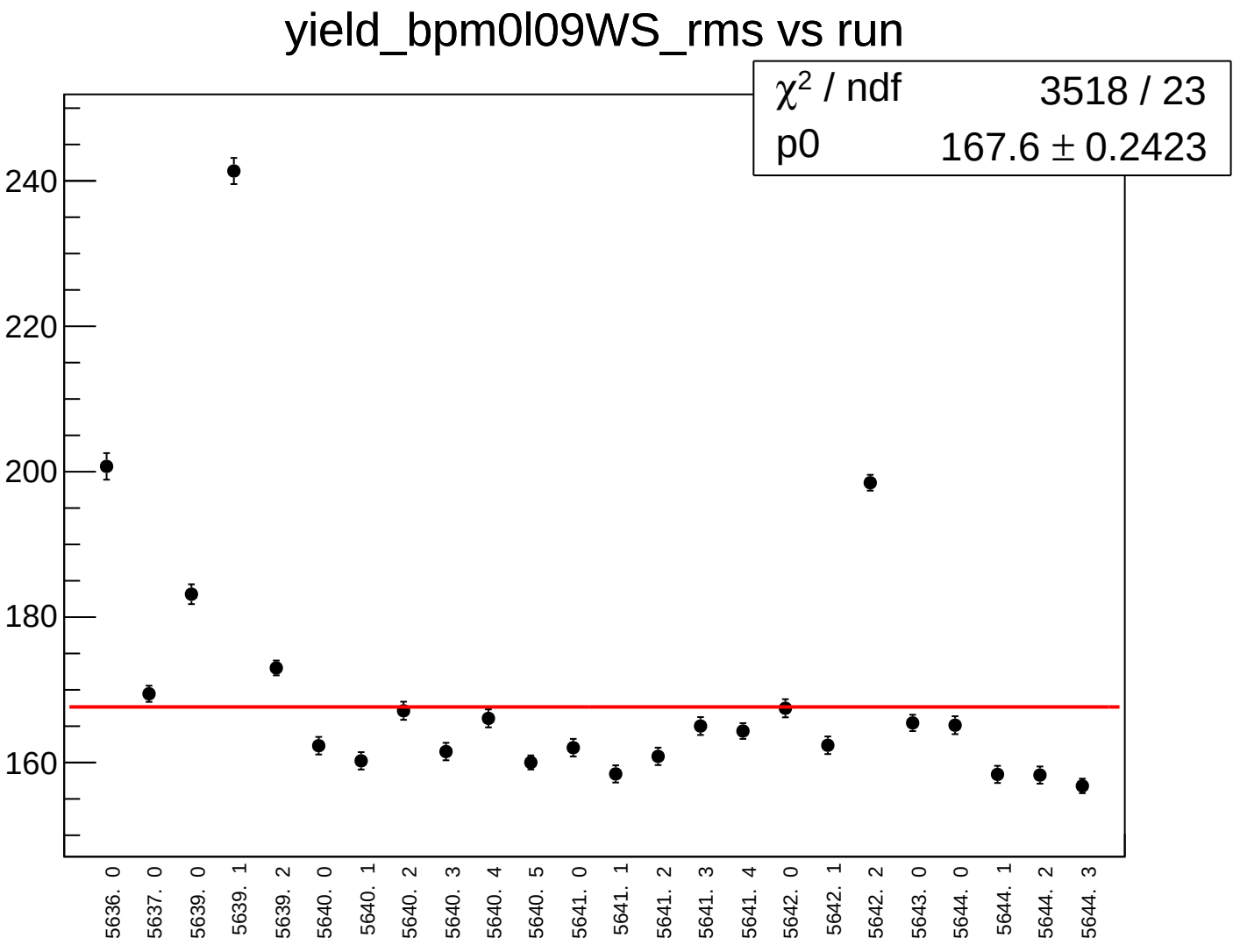

pull1D
Entries 24
Mean 2.943
Std Dev 2.697
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

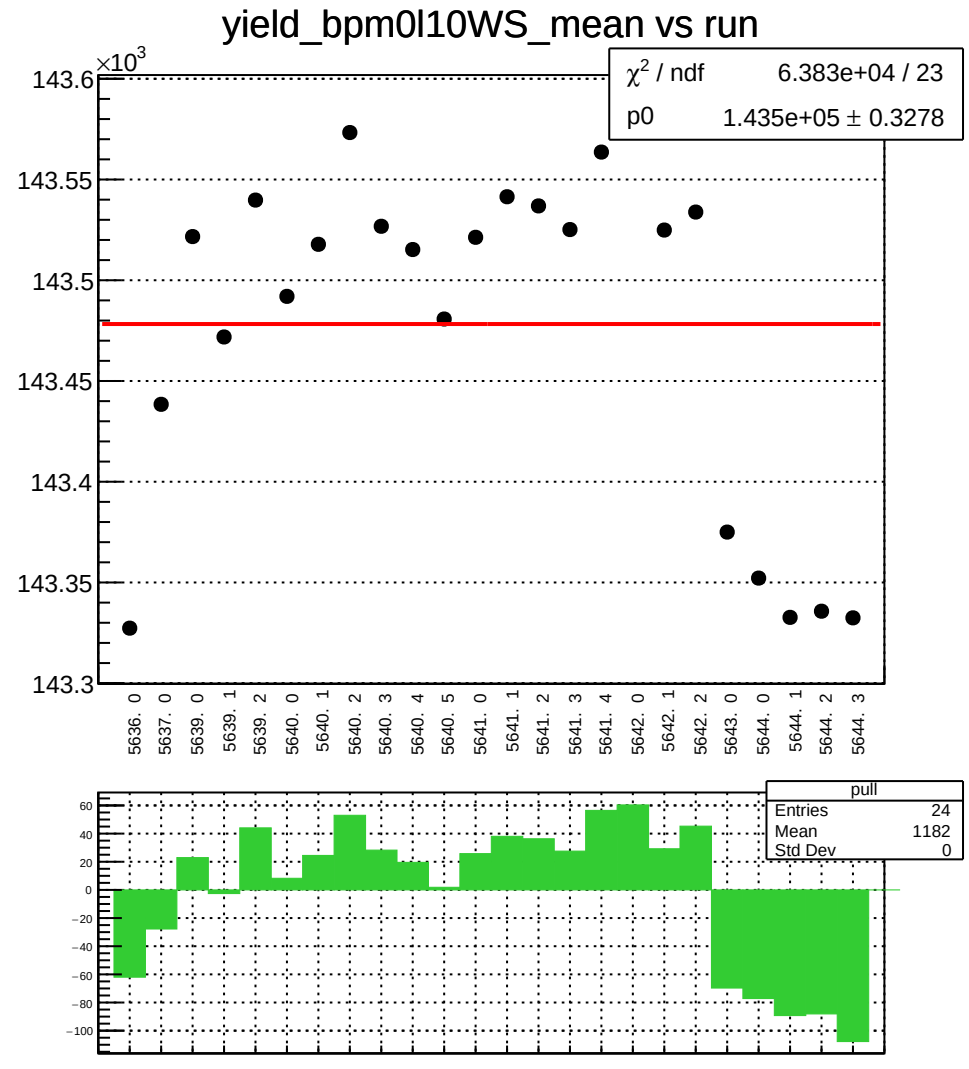

yield_bpm0l08WS_rms vs run
χ² / ndf 2434 / 23
p0 159.1 ± 0.2296
230
220
210
200
190
180
170
160
150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

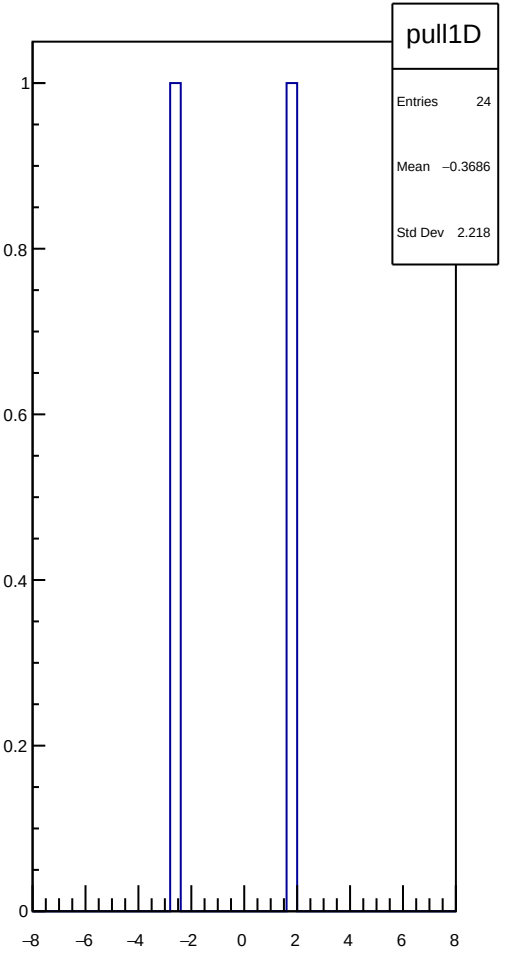

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 5.762e+04 / 23
p0 1.423e+05 ± 0.3427
142.45
142.4
142.35
142.3
142.25
142.2
142.15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

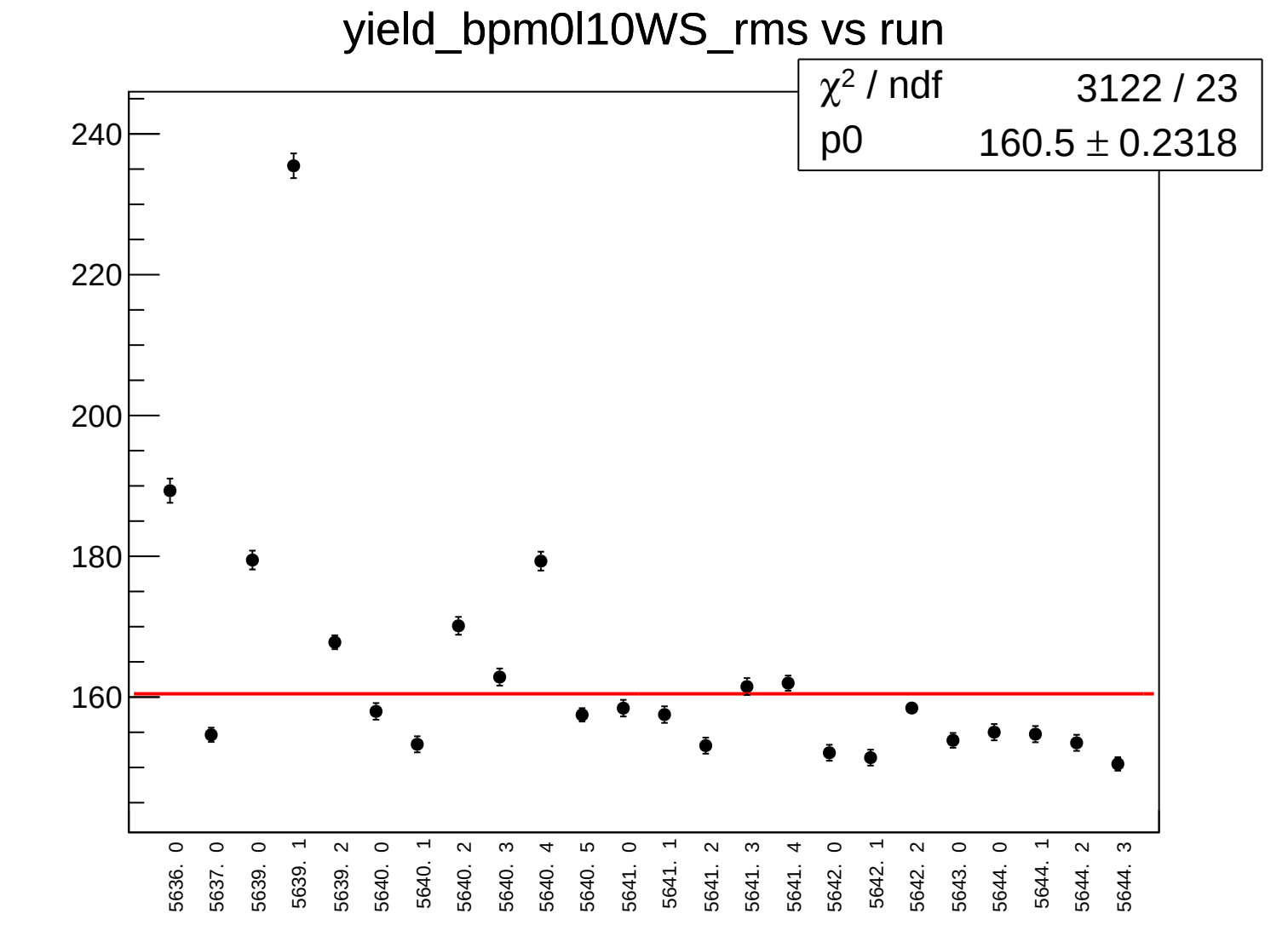

pull
Entries 24
Mean 114.8
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

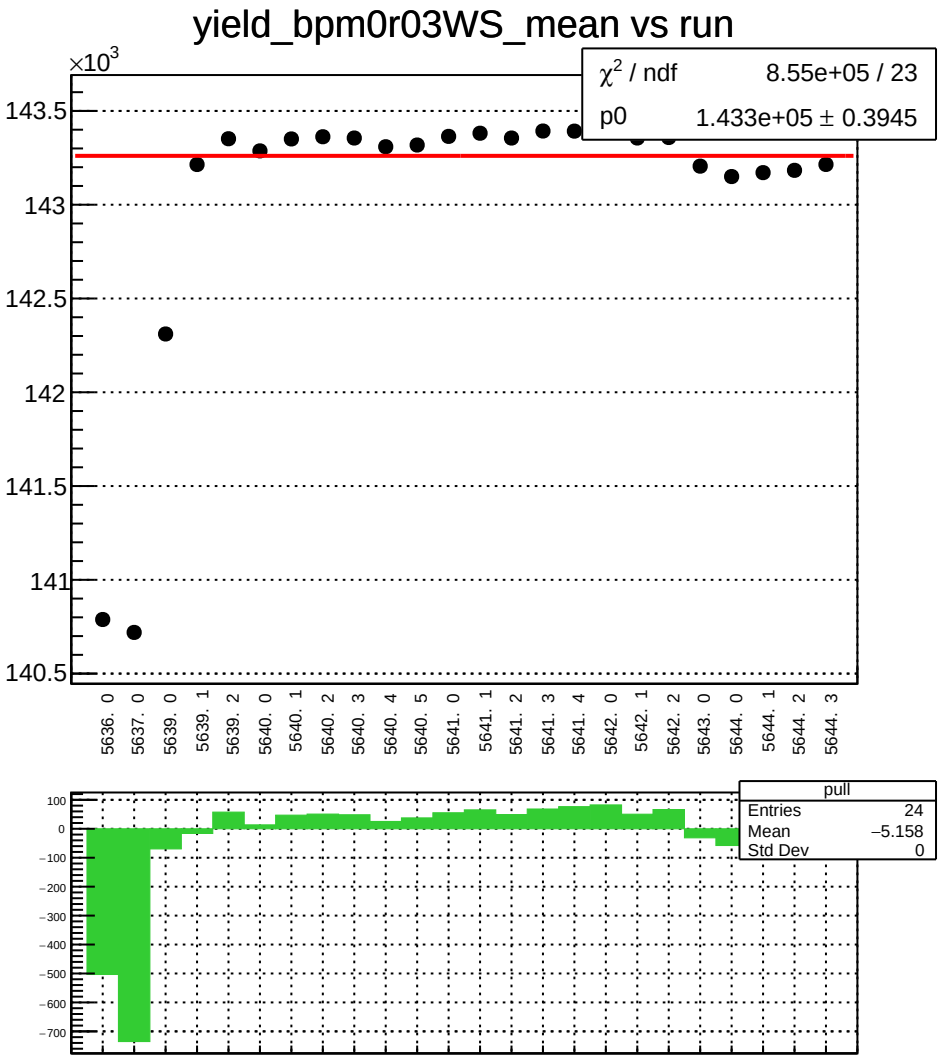

pull1D
Entries 24
Mean 0.7049
Std Dev 6.467
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

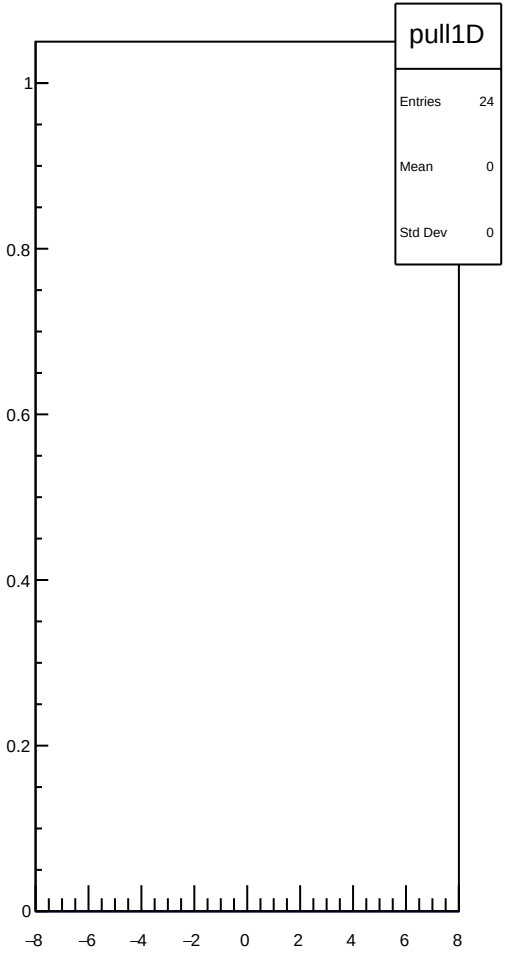

yield_bpm0l09WS_rms vs run
χ² / ndf 3518 / 23
p0 167.6 ± 0.2423
240
220
200
180
160
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

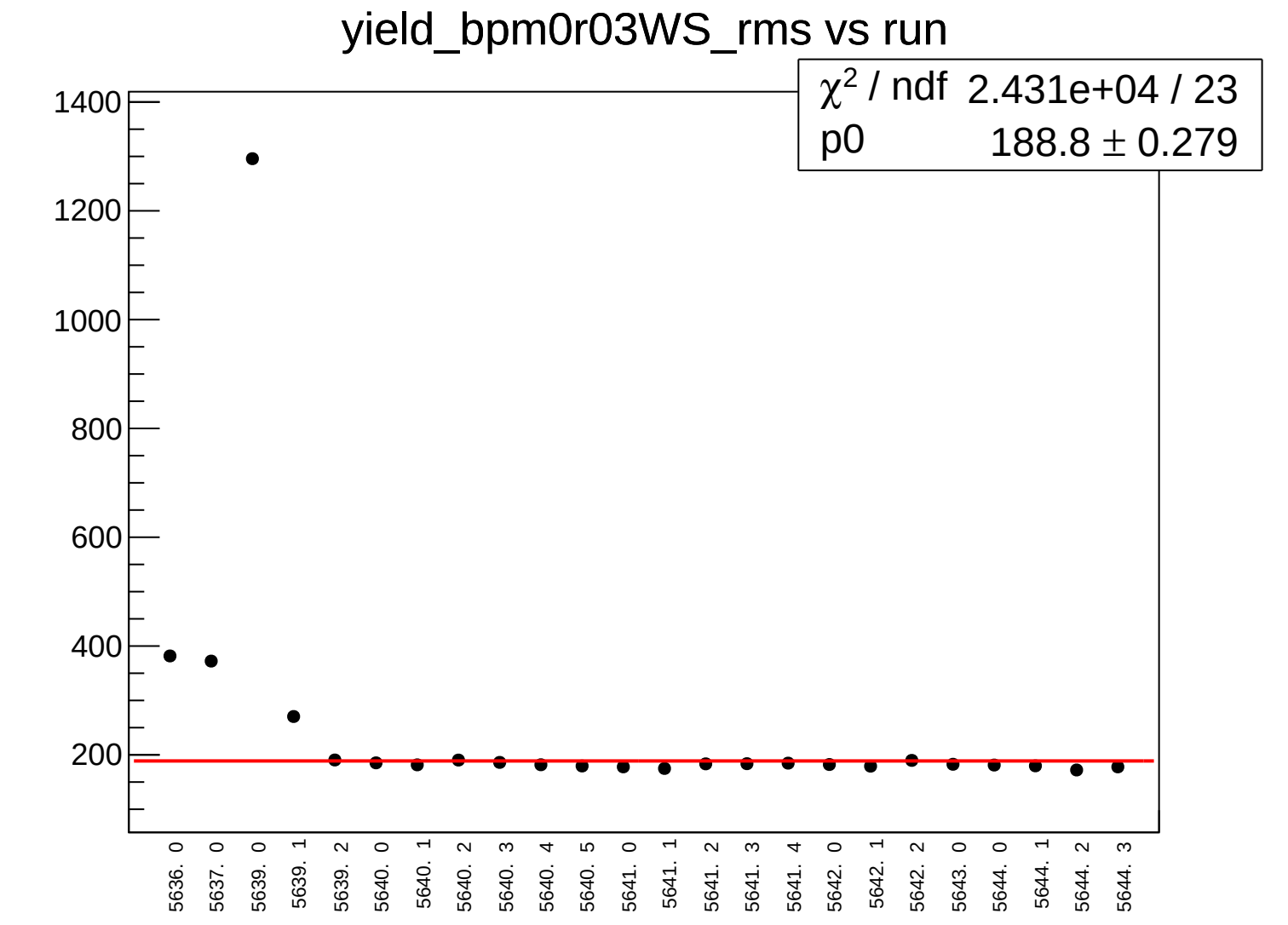

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 6.383e+04 / 23
p0 1.435e+05 ± 0.3278
143.6
143.55
143.5
143.45
143.4
143.35
143.3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 1182
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100

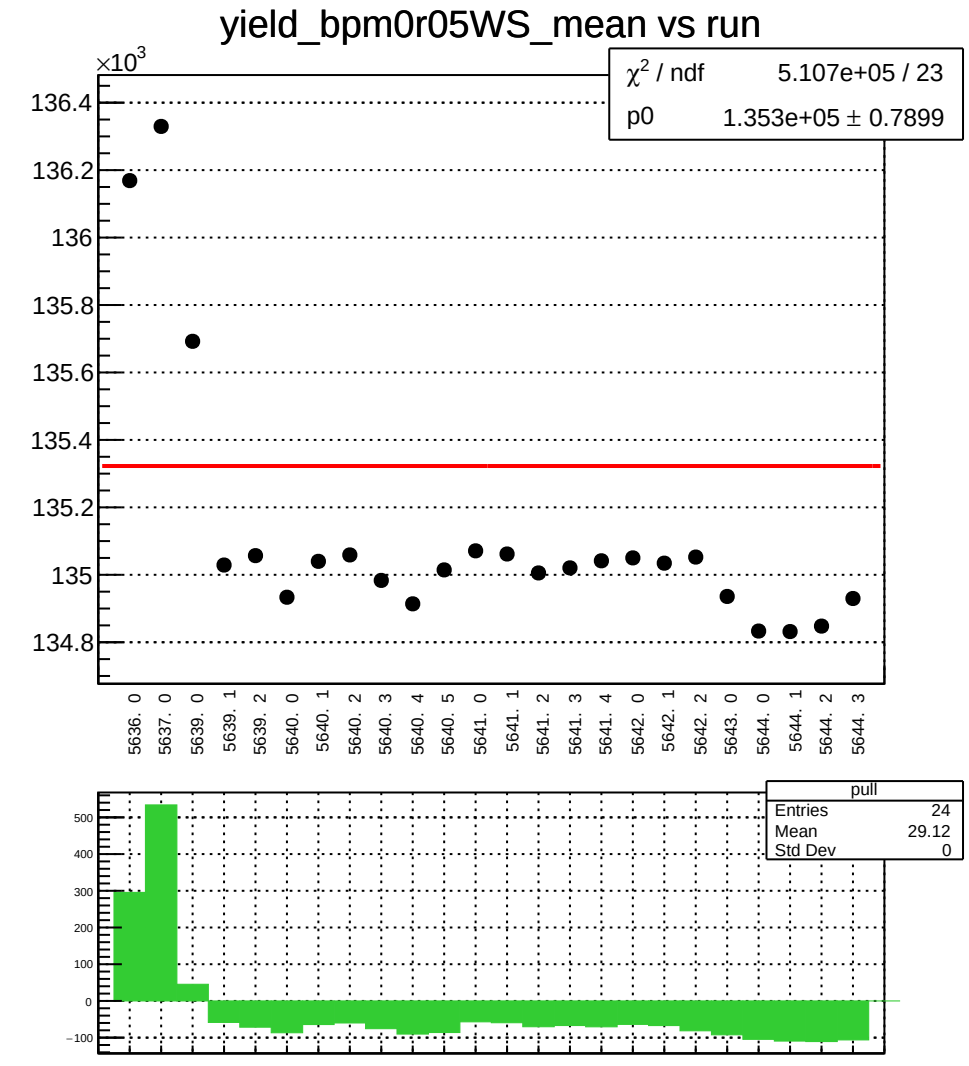

pull1D
Entries 24
Mean −0.3686
Std Dev 2.218
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

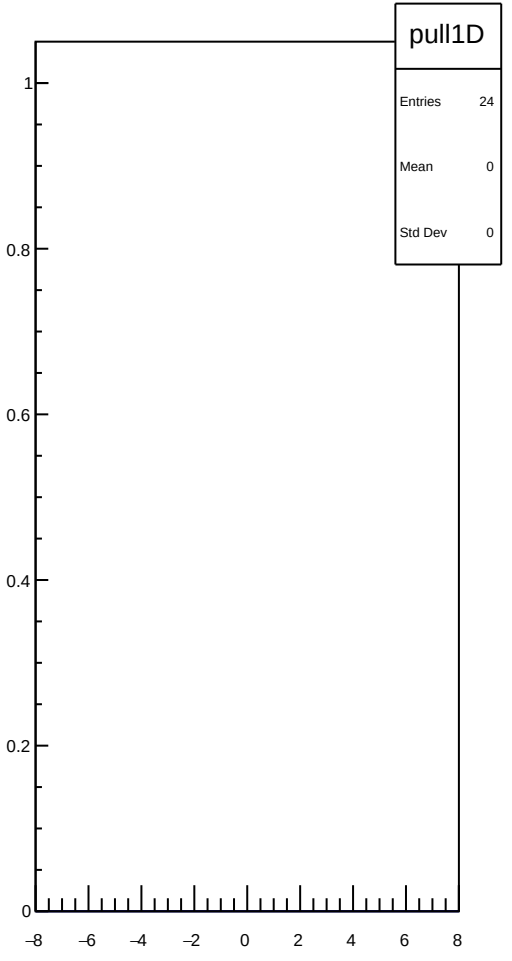

yield_bpm0l10WS_rms vs run
χ² / ndf 3122 / 23
p0 160.5 ± 0.2318
240
220
200
180
160
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

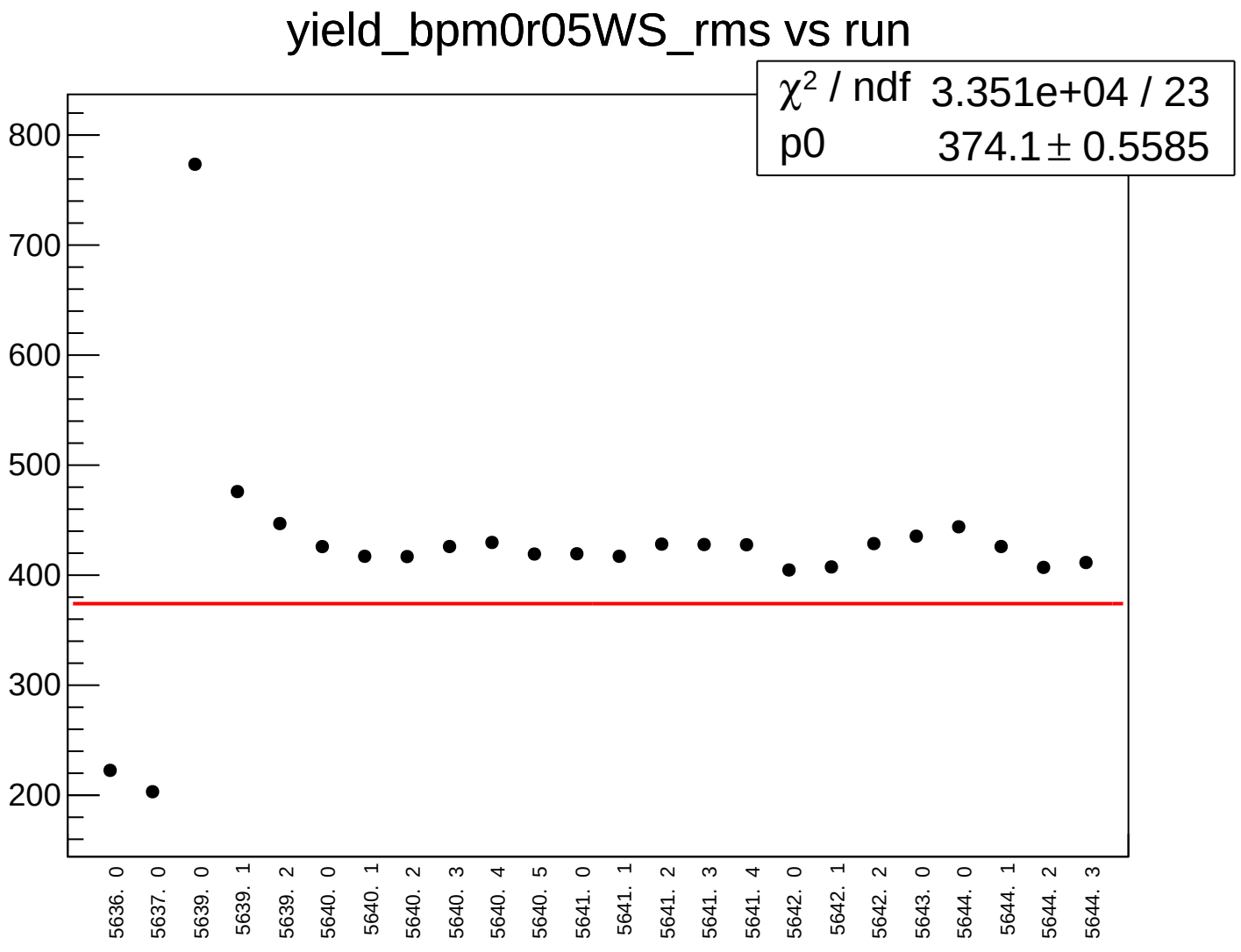

yield_bpm0r03WS_mean vs run
×10^3
χ^2 / ndf 8.55e+05 / 23
p0 1.433e+05 ± 0.3945
143.5
143
142.5
142
141.5
141
140.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean –5.158
Std Dev 0
100
0
–100
–200
–300
–400
–500
–600
–700

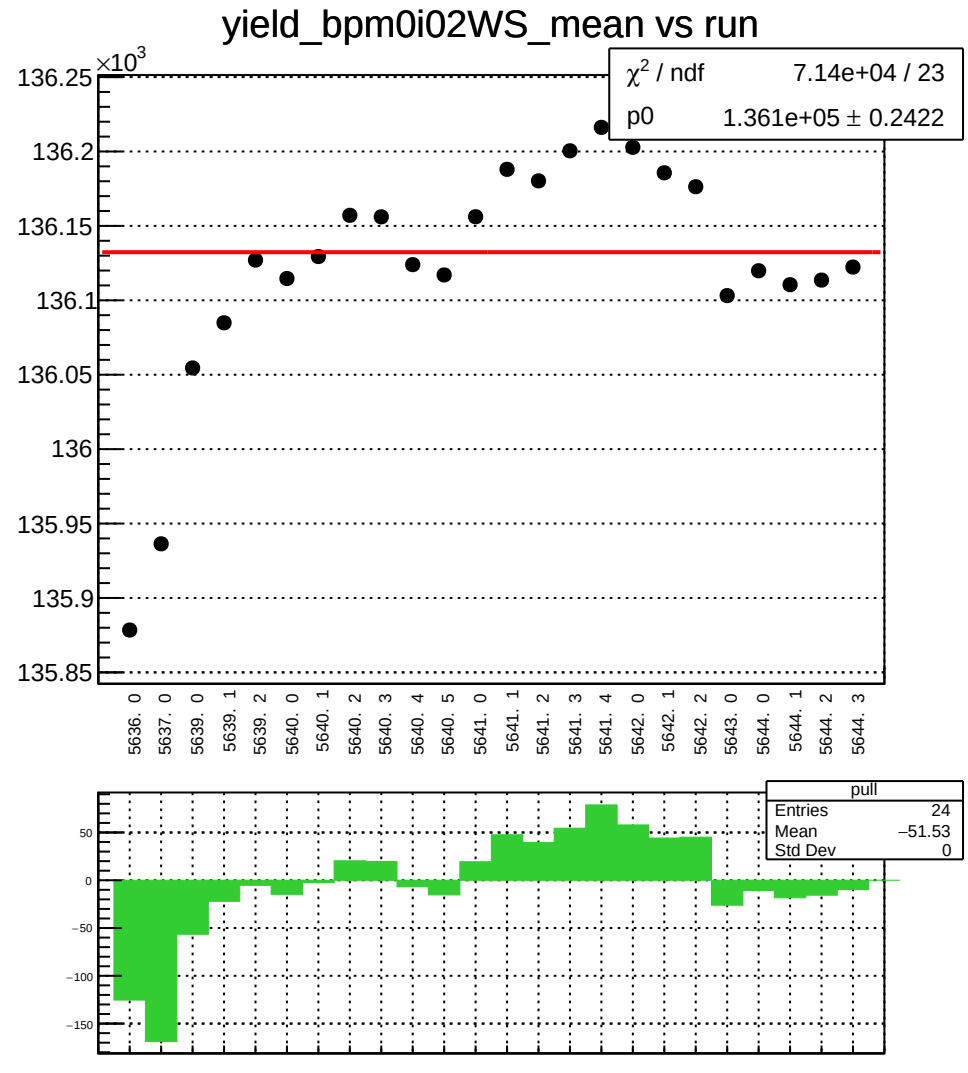

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

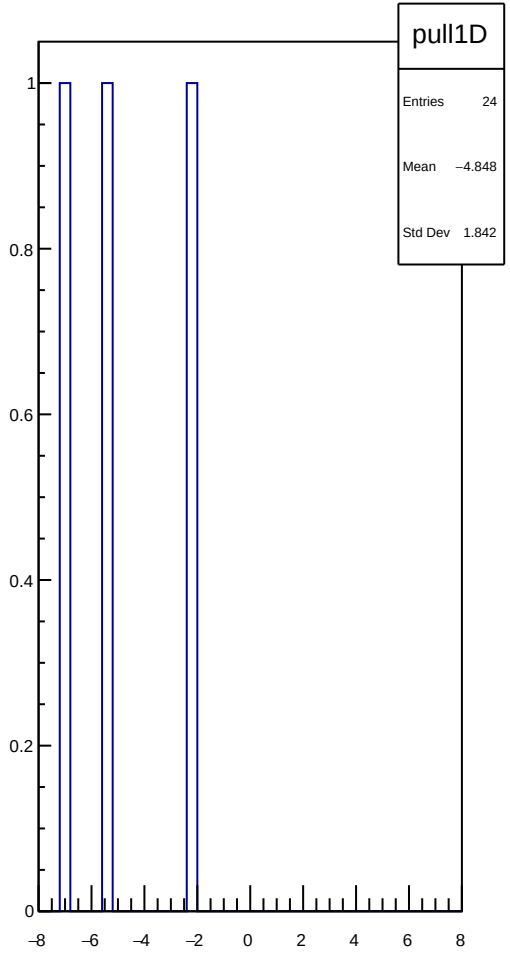

yield_bpm0r03WS_rms vs run
χ² / ndf 2.431e+04 / 23
p0 188.8 ± 0.279
1400
1200
1000
800
600
400
200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

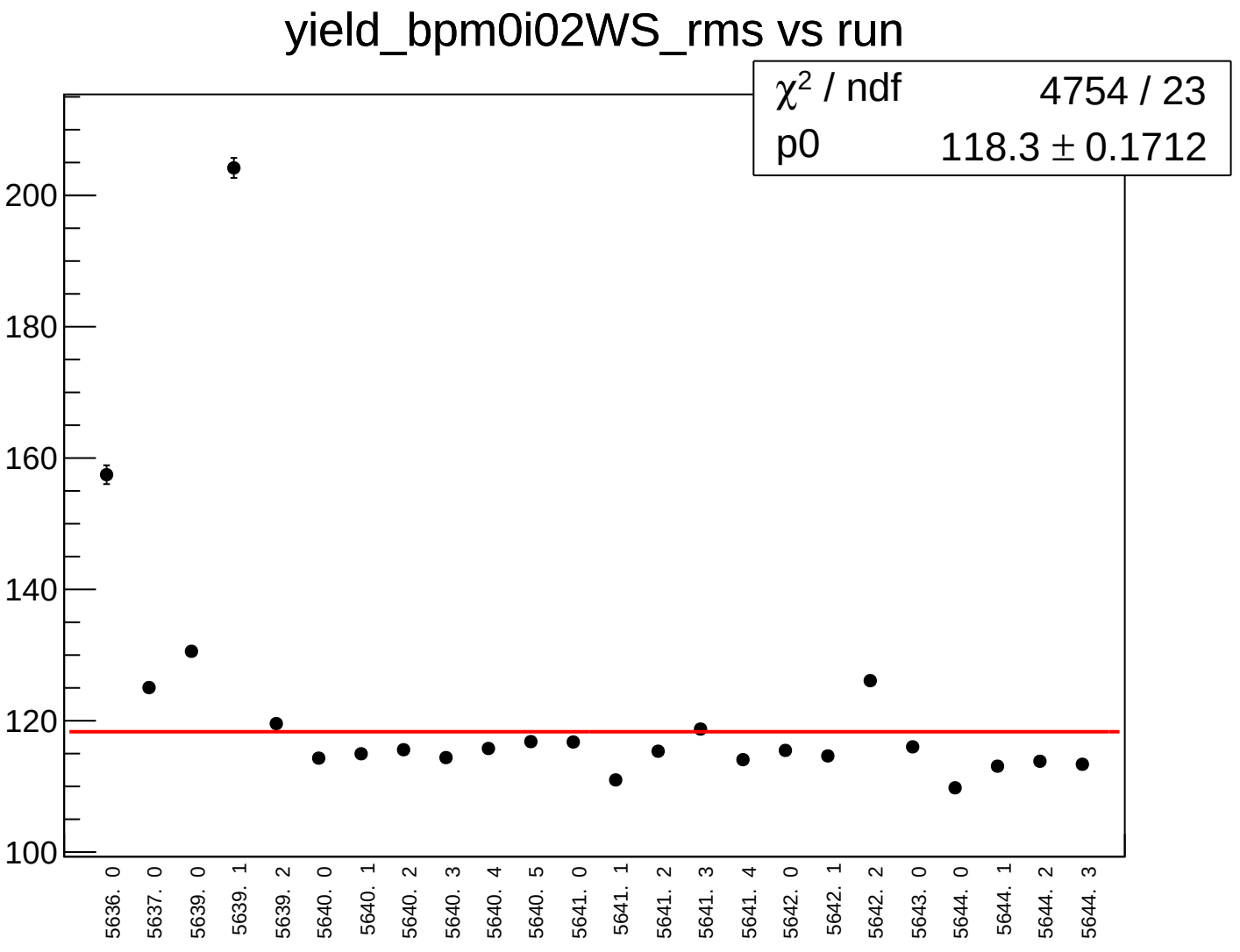

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 5.107e+05 / 23
p0 1.353e+05 ± 0.7899
136.4
136.2
136
135.8
135.6
135.4
135.2
135
134.8
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 29.12
Std Dev 0
500
400
300
200
100
0
−100

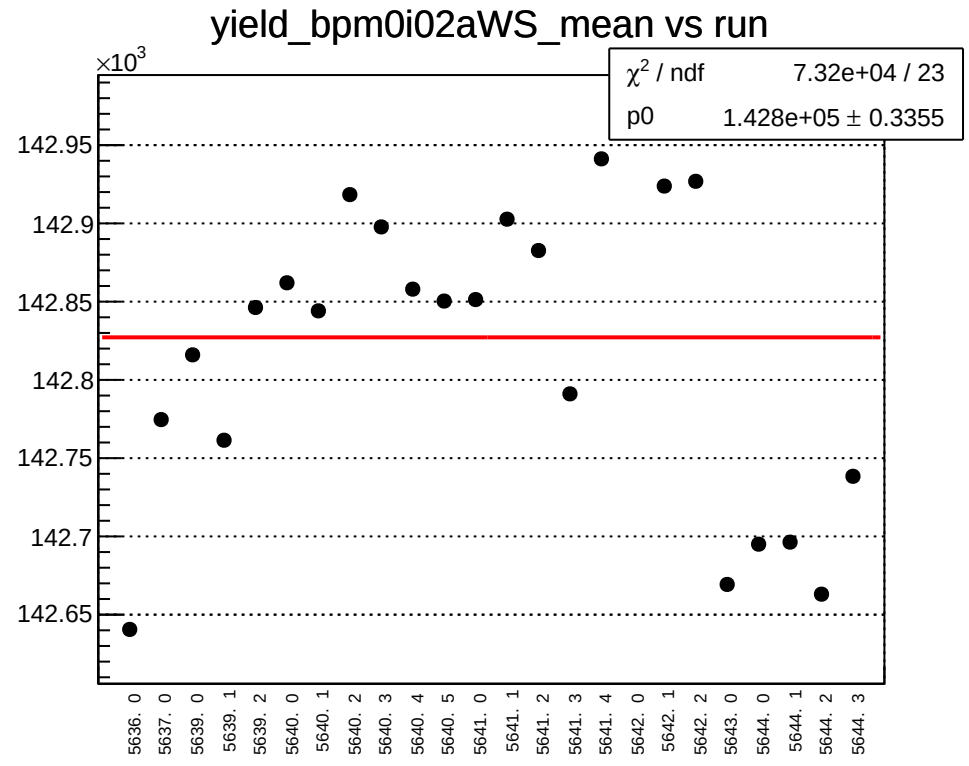

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

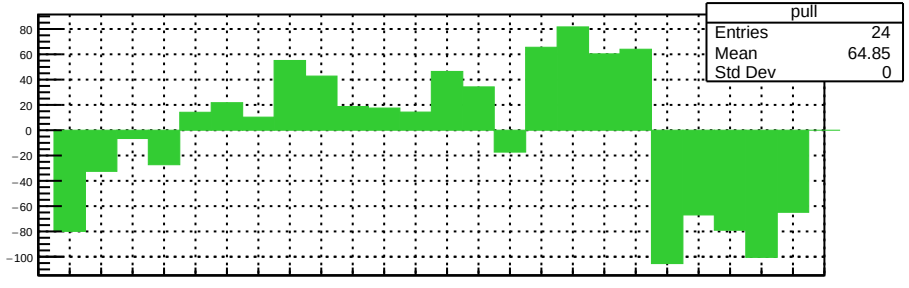

yield_bpm0r05WS_rms vs run
χ² / ndf 3.351e+04 / 23
p0 374.1 ± 0.5585
800
700
600
500
400
300
200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

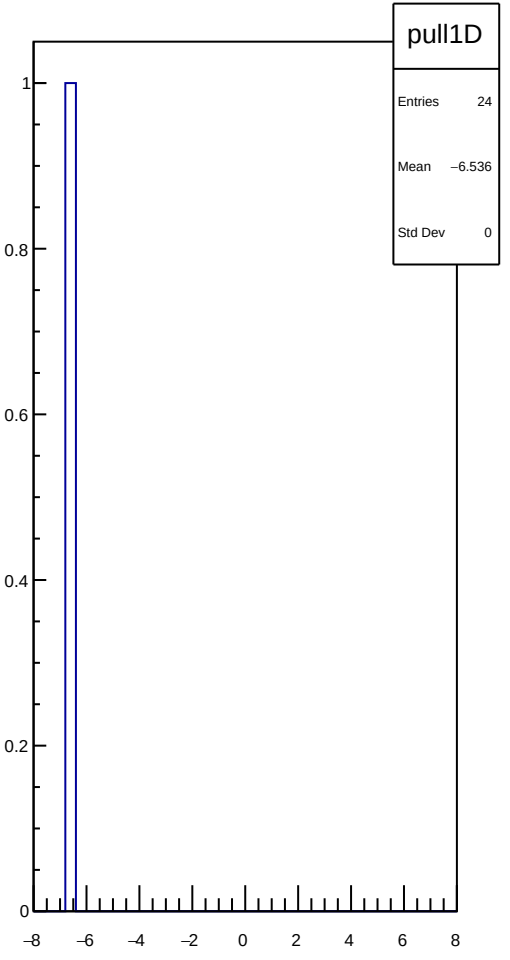

yield_bpm0i02WS_mean vs run
×10^3
χ^2 / ndf 7.14e+04 / 23
p0 1.361e+05 ± 0.2422
136.25
136.2
136.15
136.1
136.05
136
135.95
135.9
135.85
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −51.53
Std Dev 0
50
0
−50
−100
−150

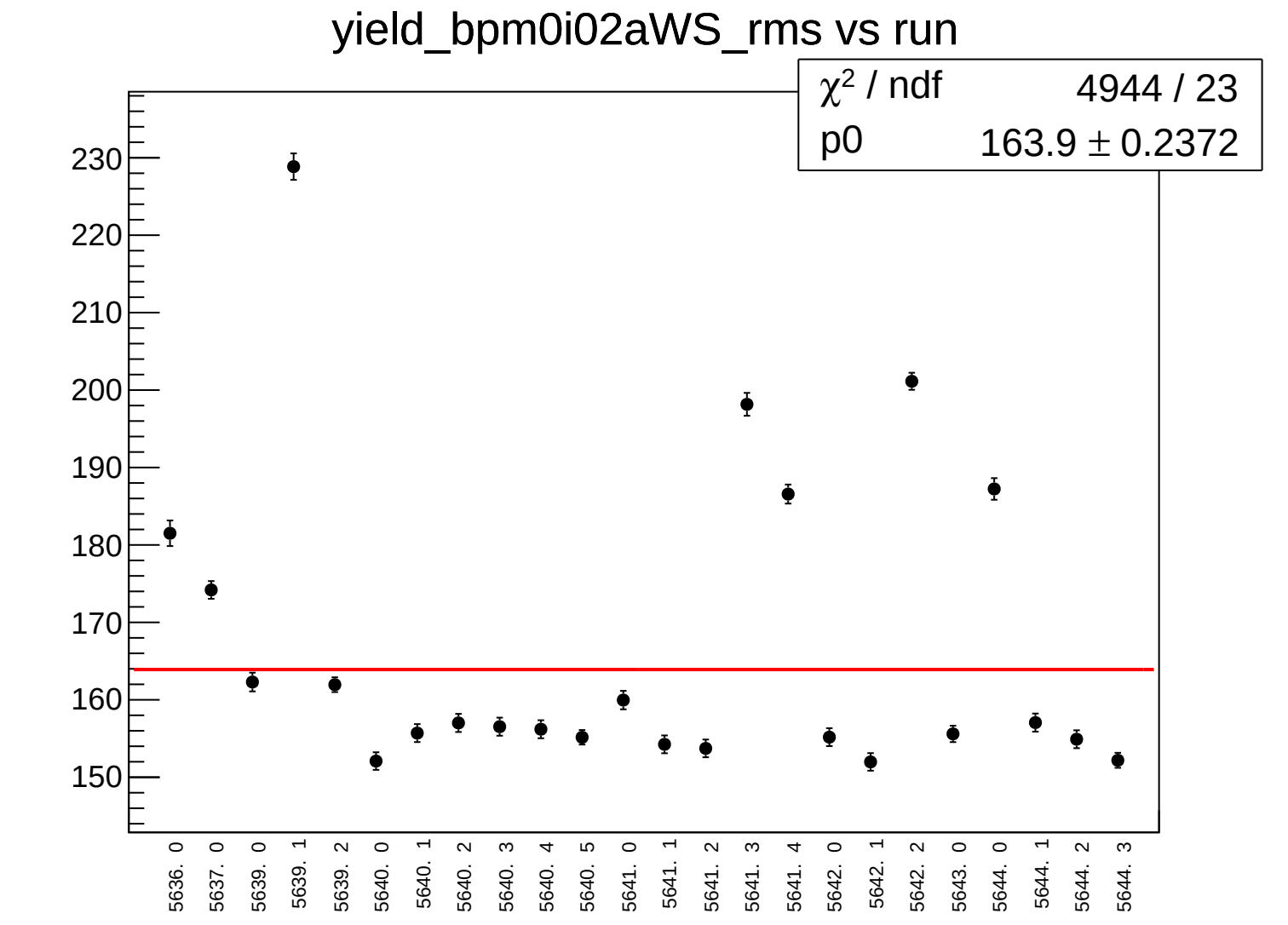

pull1D
Entries 24
Mean −4.848
Std Dev 1.842
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

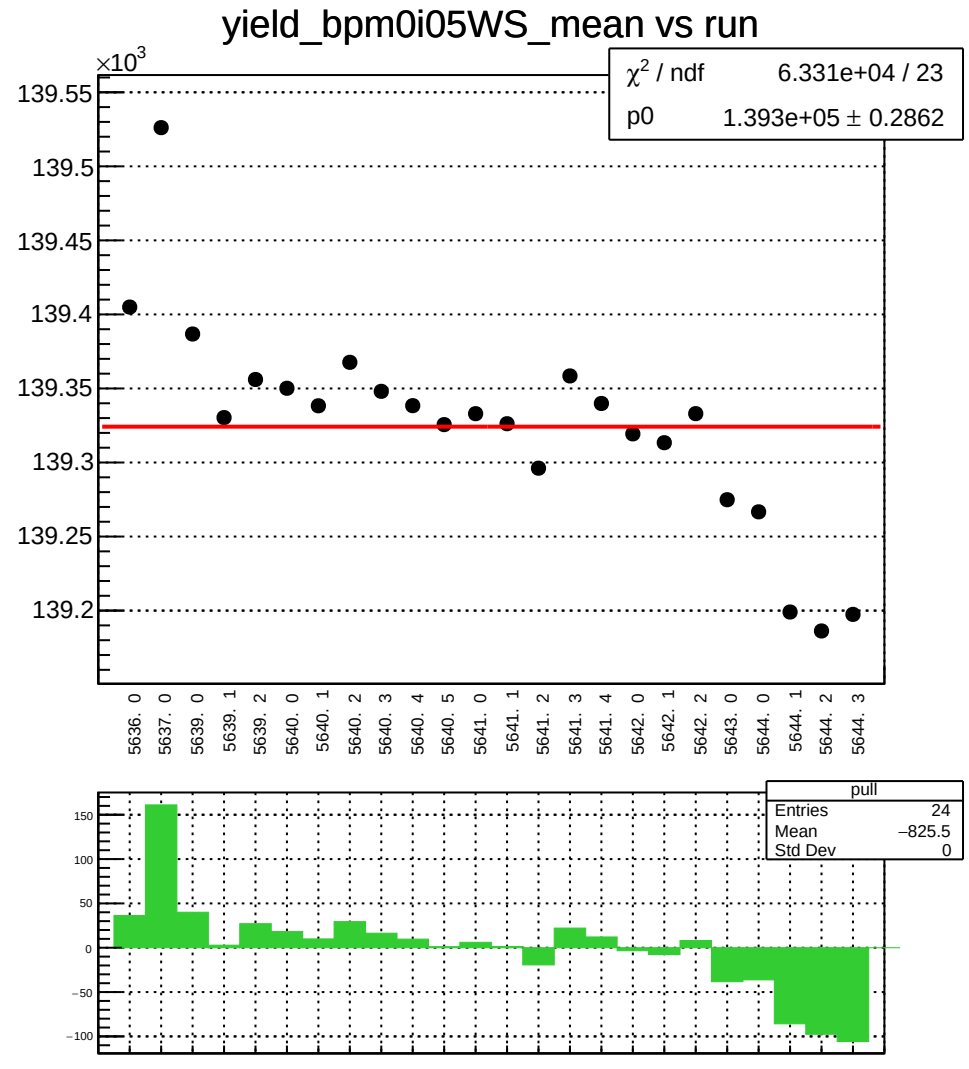

yield_bpm0i02WS_rms vs run
χ² / ndf 4754 / 23
p0 118.3 ± 0.1712
200
180
160
140
120
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

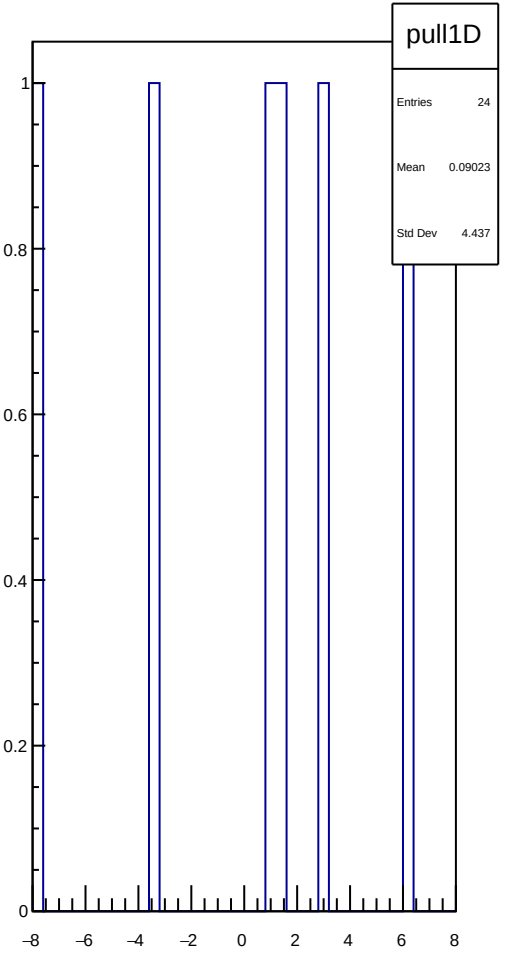

yield_bpm0i02aWS_mean vs run
×10^3
χ^2 / ndf 7.32e+04 / 23
p0 1.428e+05 ± 0.3355
142.95
142.9
142.85
142.8
142.75
142.7
142.65
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

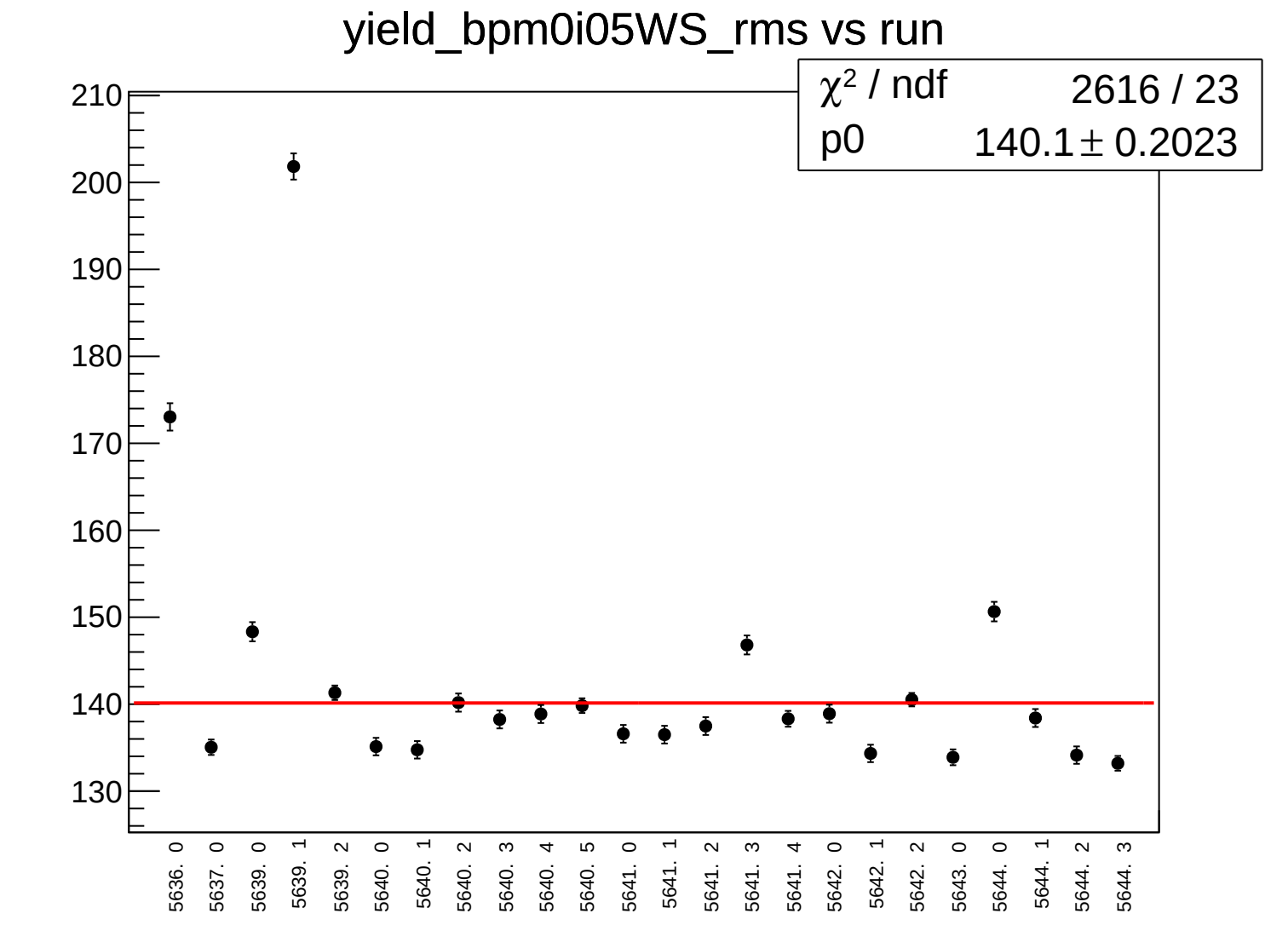

pull
Entries 24
Mean 64.85
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

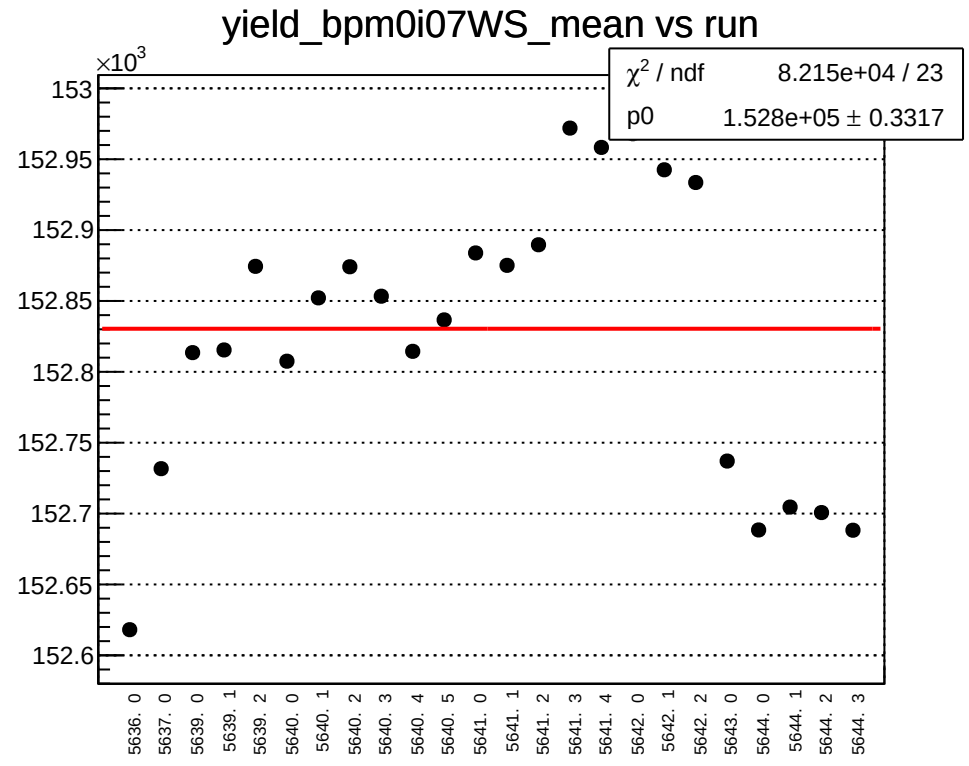

pull1D
Entries 24
Mean −6.536
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

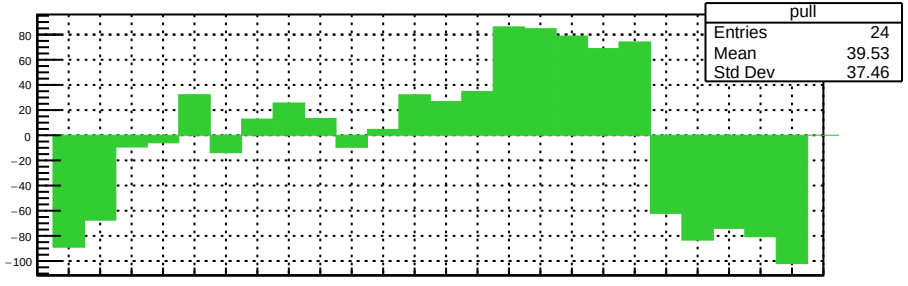

yield_bpm0i02aWS_rms vs run
χ² / ndf 4944 / 23
p0 163.9 ± 0.2372
230
220
210
200
190
180
170
160
150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

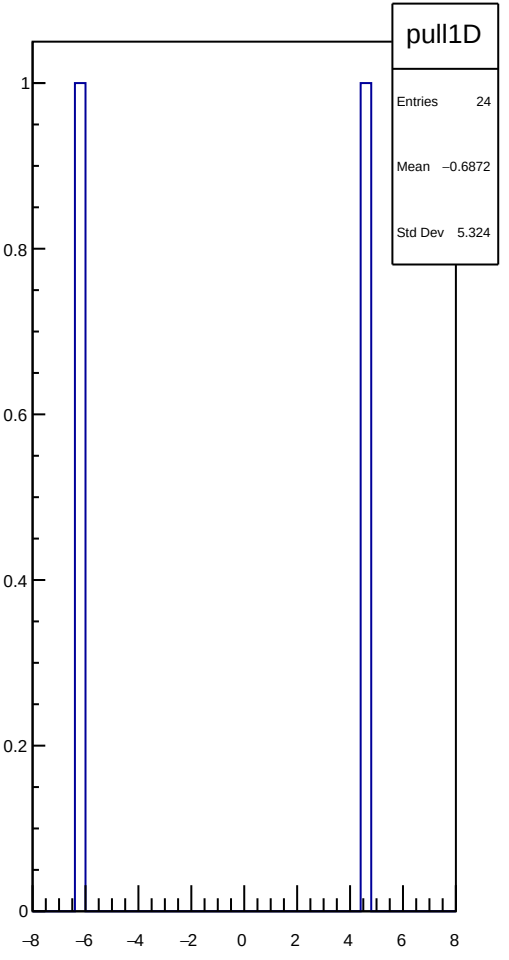

yield_bpm0i05WS_mean vs run
×10^3
χ^2 / ndf 6.331e+04 / 23
p0 1.393e+05 ± 0.2862
139.55
139.5
139.45
139.4
139.35
139.3
139.25
139.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −825.5
Std Dev 0
150
100
50
0
−50
−100

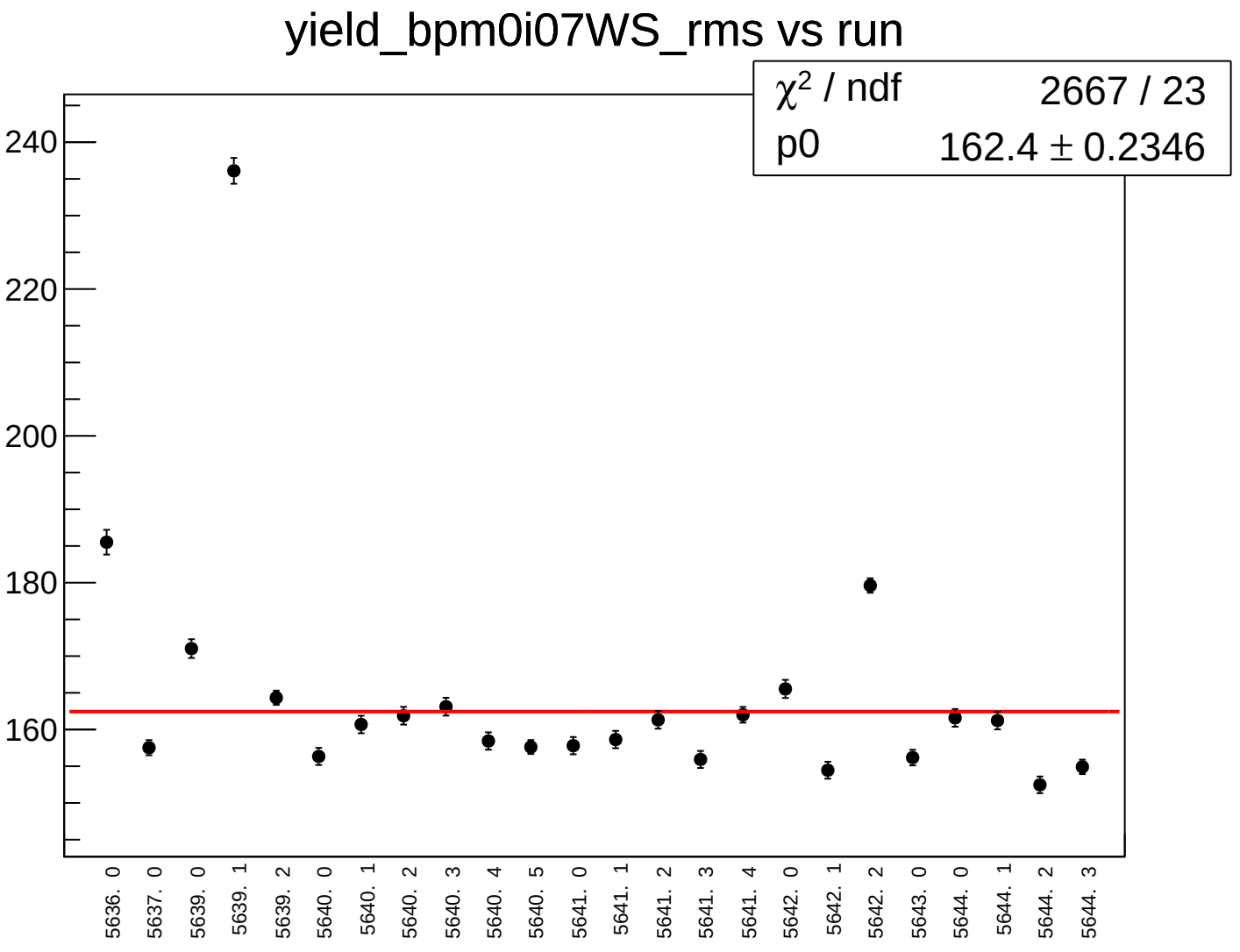

pull1D
Entries 24
Mean 0.09023
Std Dev 4.437
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

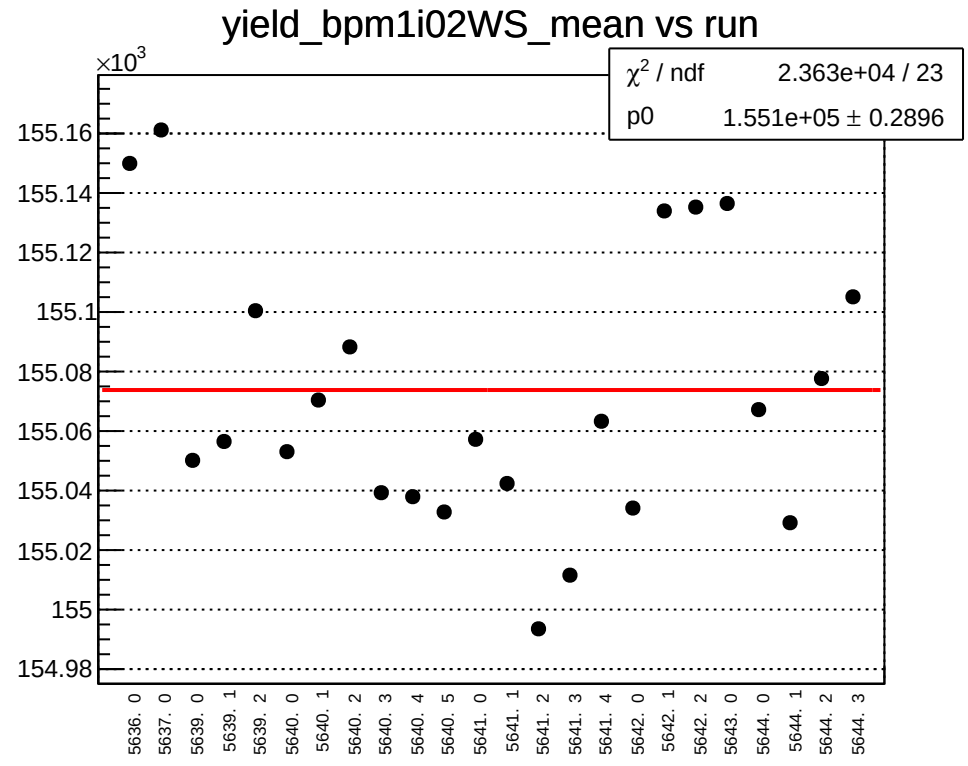

yield_bpm0i05WS_rms vs run
χ² / ndf 2616 / 23
p0 140.1 ± 0.2023
210
200
190
180
170
160
150
140
130
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

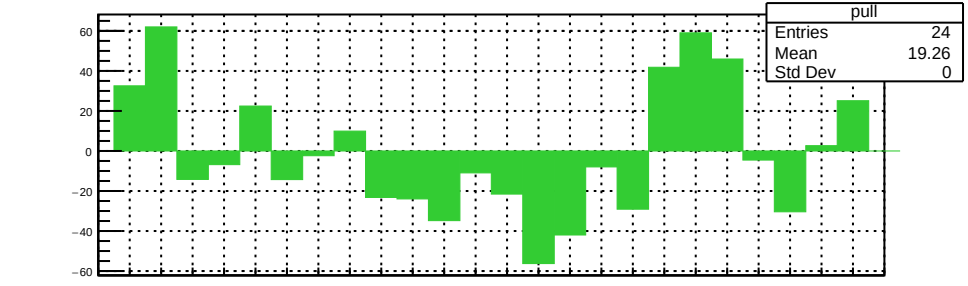

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 8.215e+04 / 23
p0 1.528e+05 ± 0.3317
153
152.95
152.9
152.85
152.8
152.75
152.7
152.65
152.6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

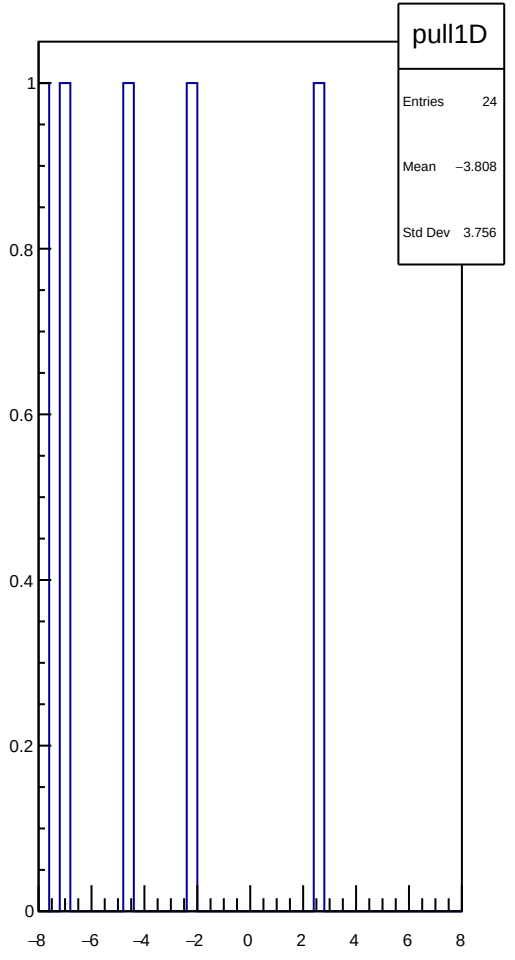

pull
Entries 24
Mean 39.53
Std Dev 37.46
80
60
40
20
0
−20
−40
−60
−80
−100

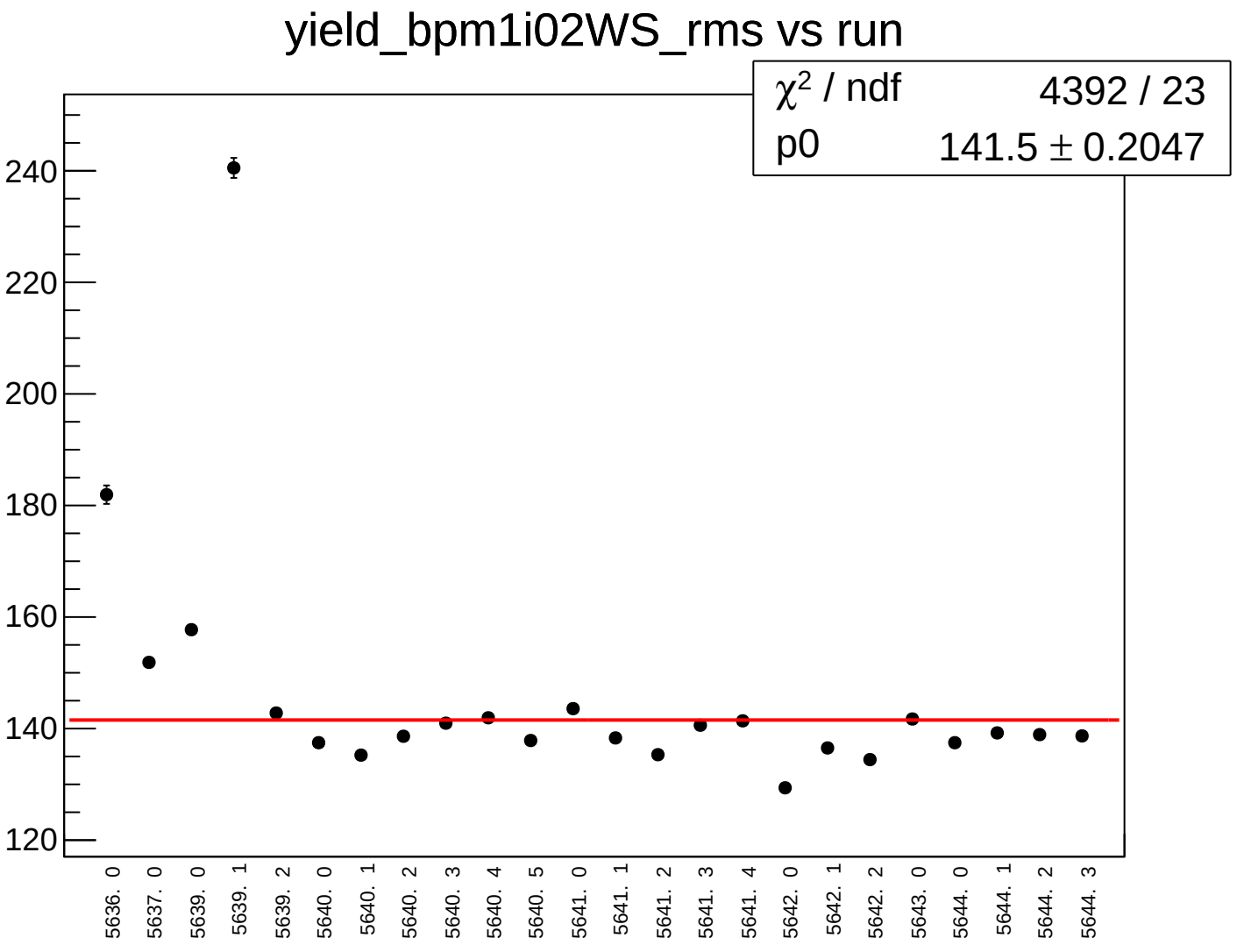

pull1D
Entries 24
Mean −0.6872
Std Dev 5.324
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

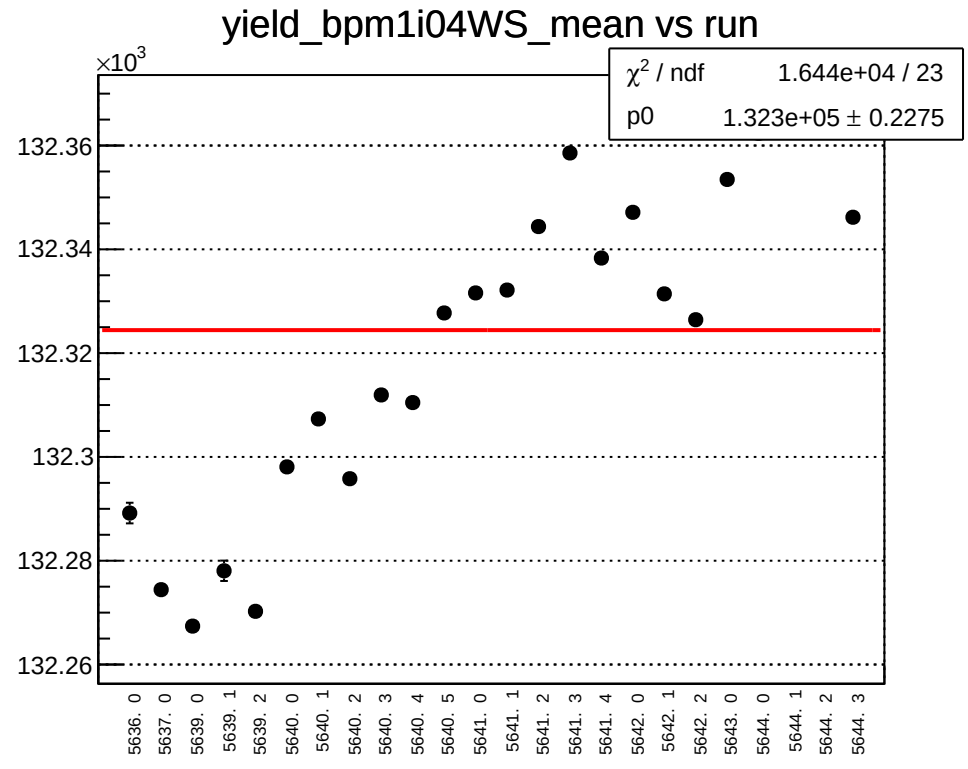

yield_bpm0i07WS_rms vs run
χ² / ndf 2667 / 23
p0 162.4 ± 0.2346
240
220
200
180
160
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

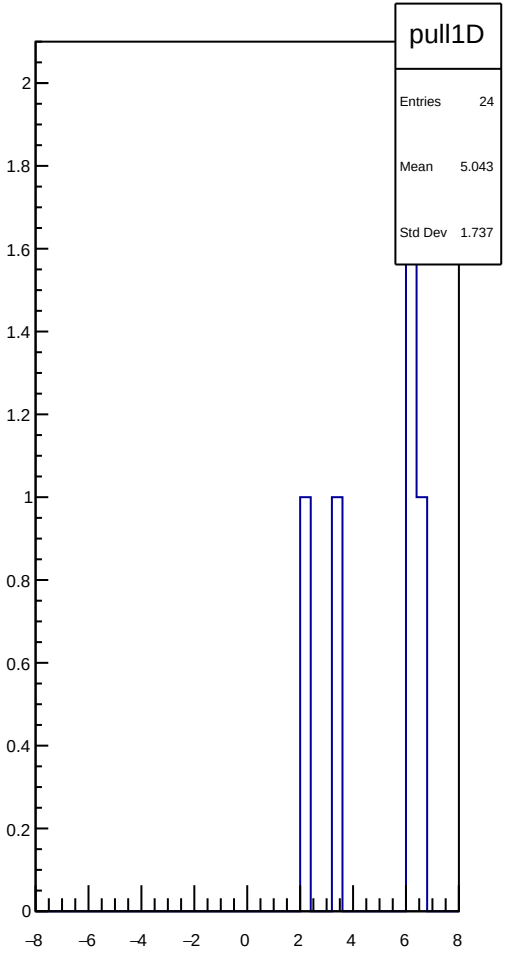

yield_bpm1i02WS_mean vs run
×10^3
χ^2 / ndf 2.363e+04 / 23
p0 1.551e+05 ± 0.2896
155.16
155.14
155.12
155.1
155.08
155.06
155.04
155.02
155
154.98
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

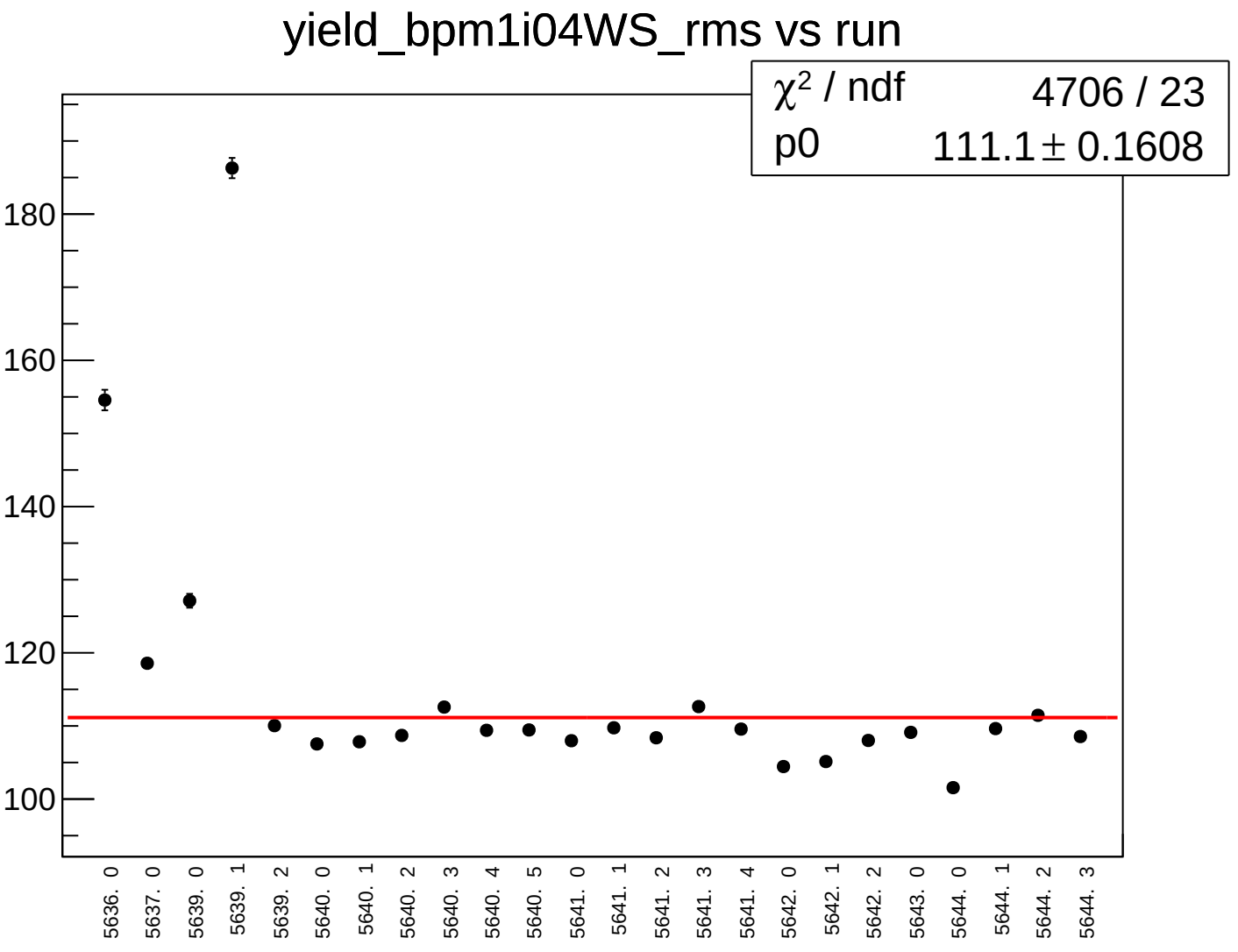

pull
Entries 24
Mean 19.26
Std Dev 0
60
40
20
0
−20
−40
−60

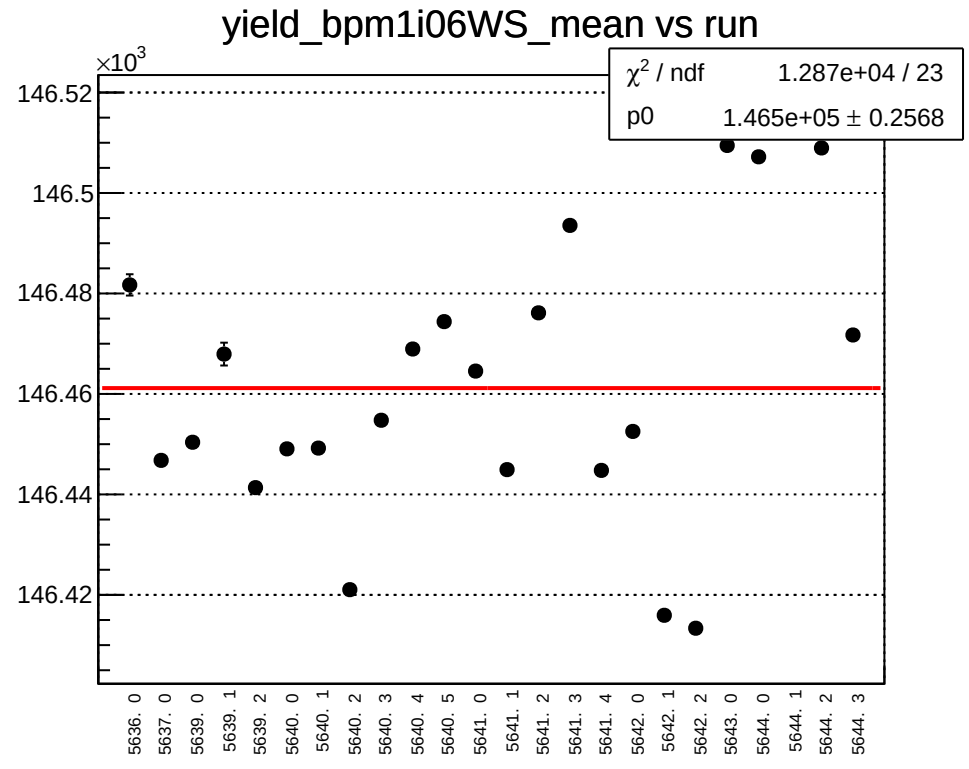

pull1D
Entries 24
Mean −3.808
Std Dev 3.756
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

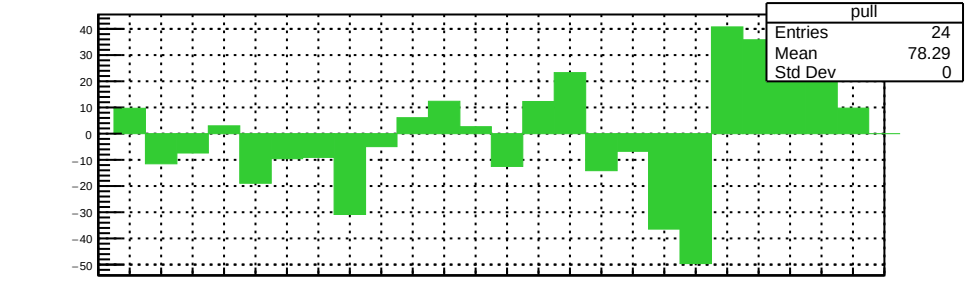

yield_bpm1i02WS_rms vs run
χ² / ndf 4392 / 23
p0 141.5 ± 0.2047
240
220
200
180
160
140
120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

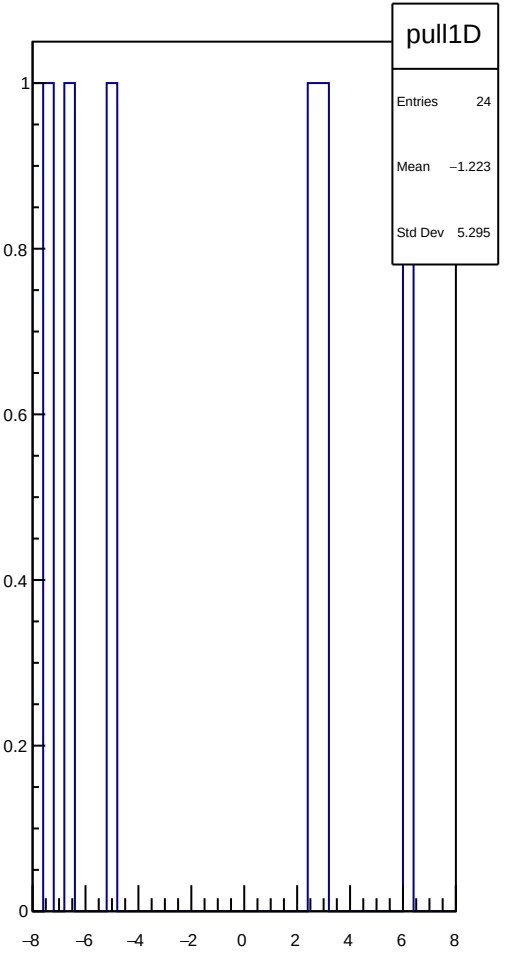

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 1.644e+04 / 23
p0 1.323e+05 ± 0.2275
132.36
132.34
132.32
132.3
132.28
132.26
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −201.8
Std Dev 0
40
20
0
−20
−40
−60

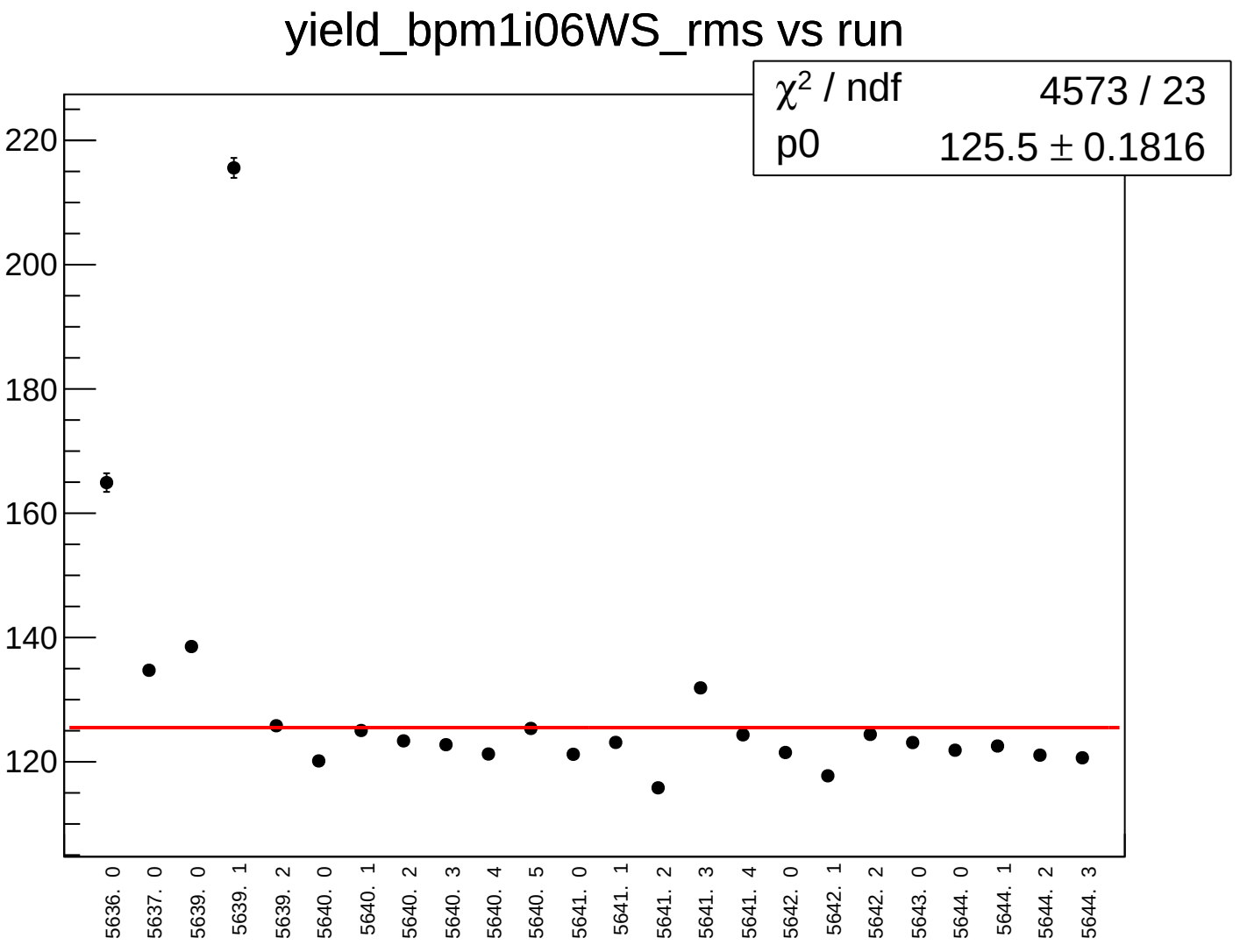

pull1D
Entries 24
Mean 5.043
Std Dev 1.737
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

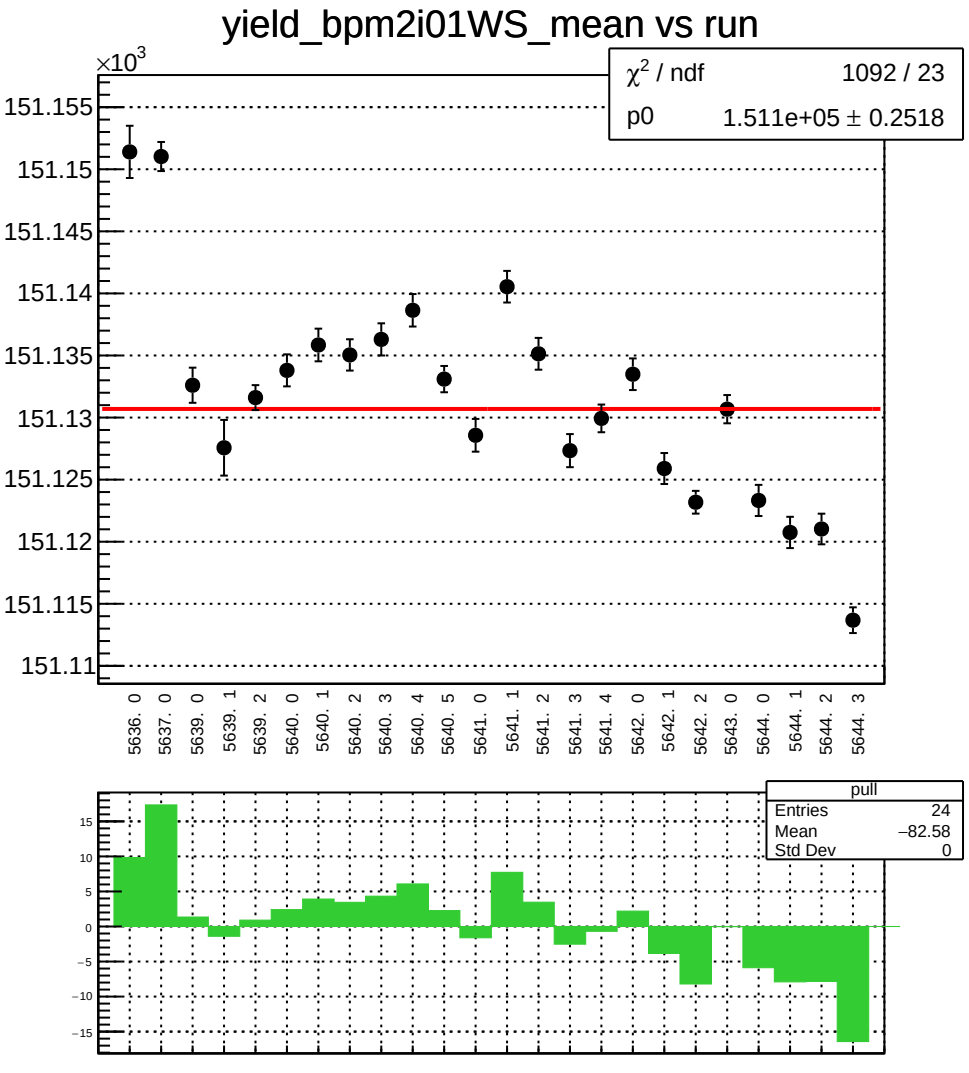

yield_bpm1i04WS_rms vs run
χ² / ndf 4706 / 23
p0 111.1 ± 0.1608
180
160
140
120
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

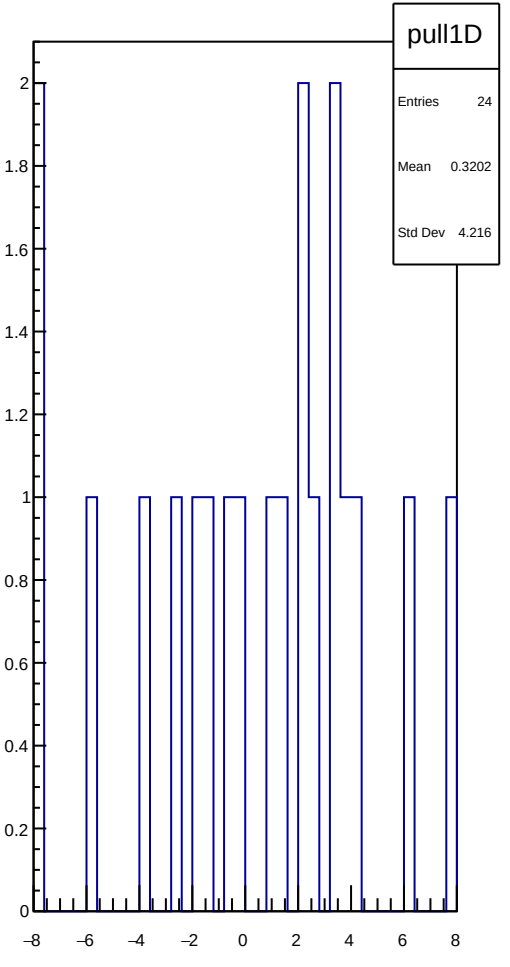

yield_bpm1i06WS_mean vs run
×10^3
χ^2 / ndf 1.287e+04 / 23
p0 1.465e+05 ± 0.2568
146.52
146.5
146.48
146.46
146.44
146.42
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

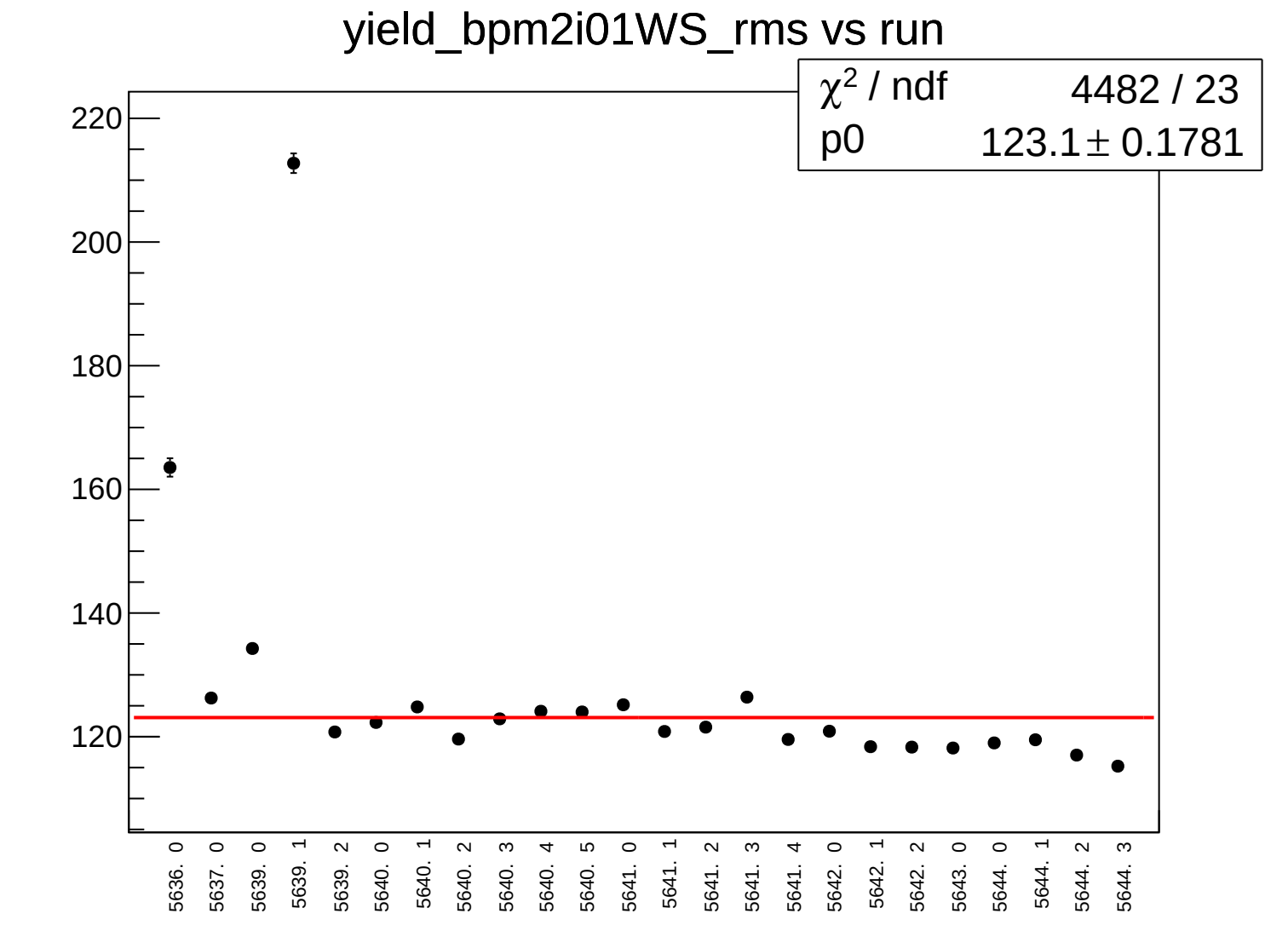

pull
Entries 24
Mean 78.29
Std Dev 0
40
30
20
10
0
−10
−20
−30
−40
−50

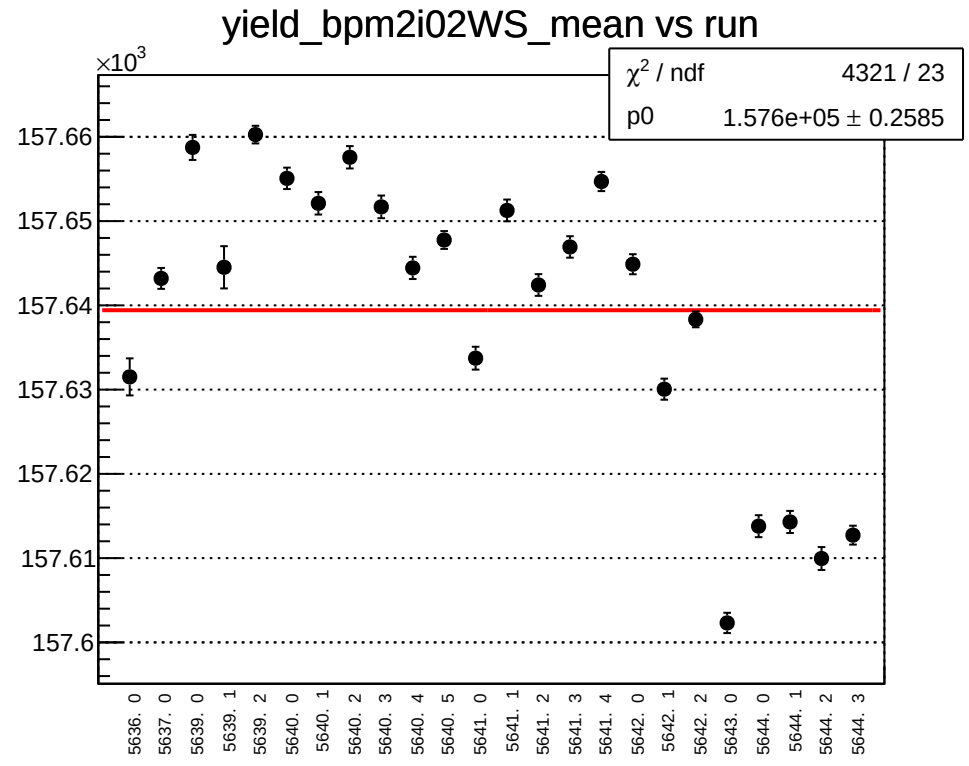

pull1D
Entries 24
Mean −1.223
Std Dev 5.295
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

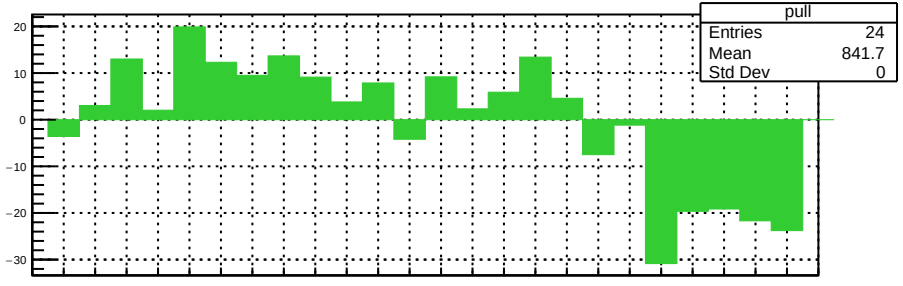

yield_bpm1i06WS_rms vs run
χ² / ndf 4573 / 23
p0 125.5 ± 0.1816
220
200
180
160
140
120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

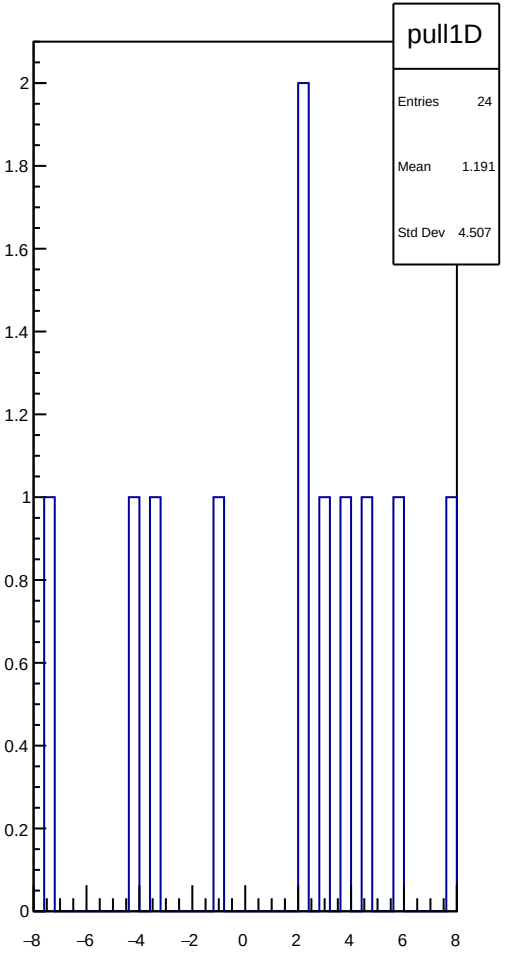

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1092 / 23
p0 1.511e+05 ± 0.2518
151.155
151.15
151.145
151.14
151.135
151.13
151.125
151.12
151.115
151.11
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −82.58
Std Dev 0
15
10
5
0
−5
−10
−15

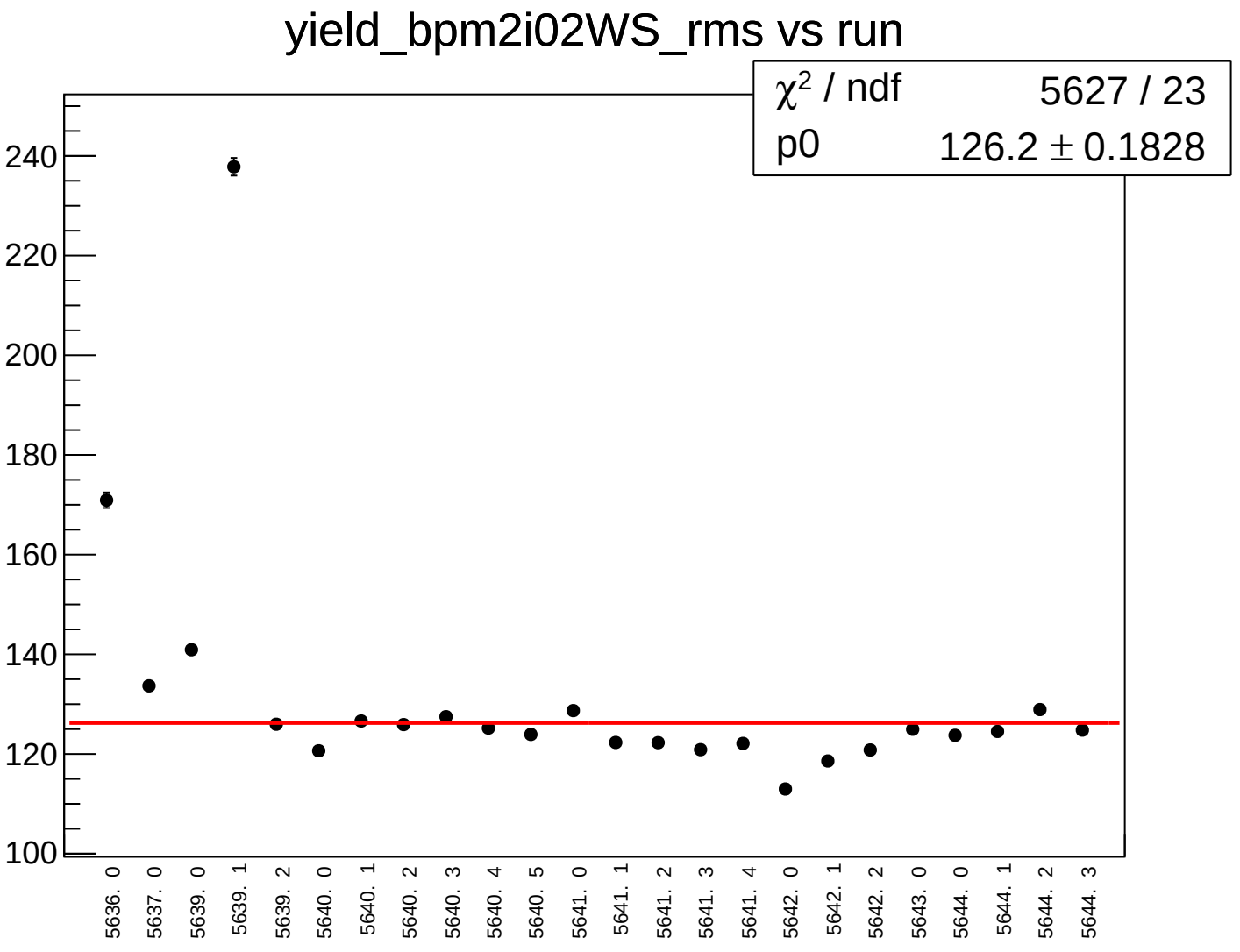

pull1D
Entries 24
Mean 0.3202
Std Dev 4.216
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

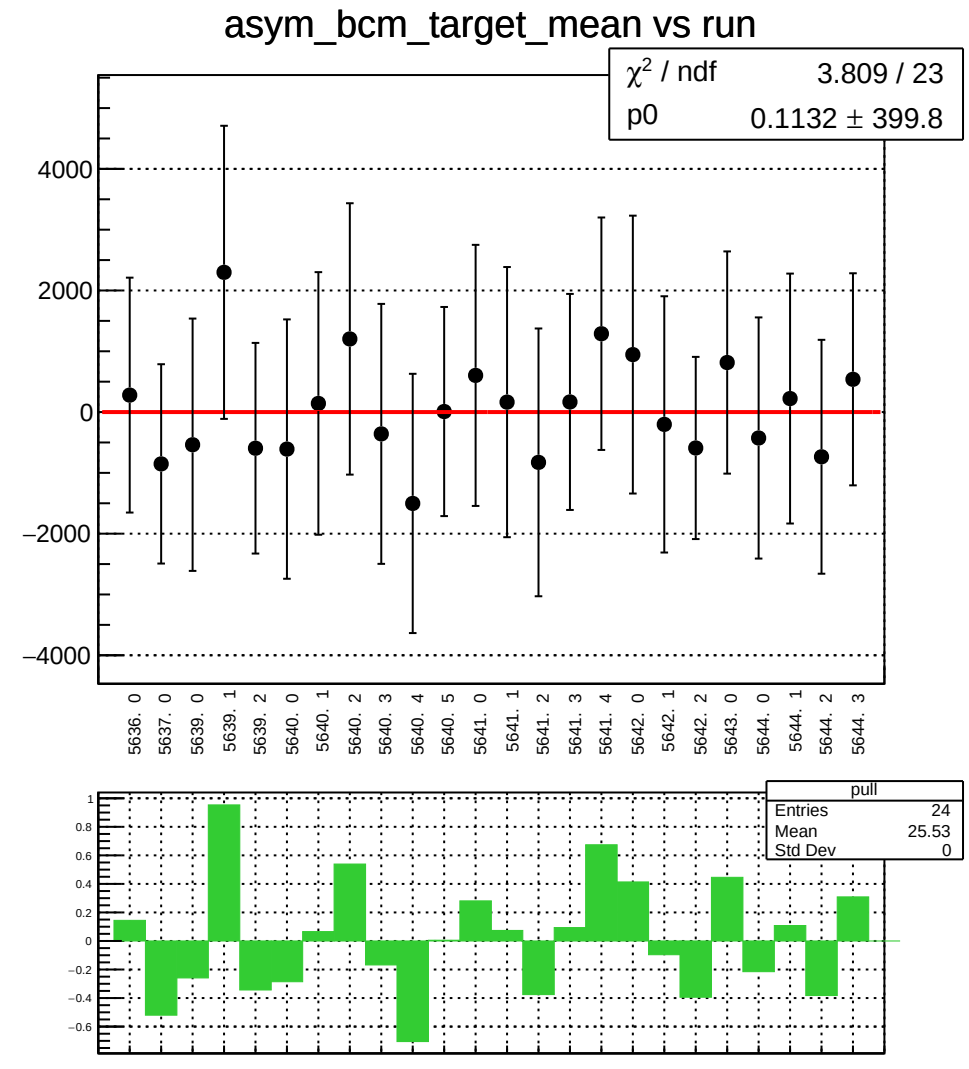

yield_bpm2i01WS_rms vs run
χ² / ndf 4482 / 23
p0 123.1 ± 0.1781
220
200
180
160
140
120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

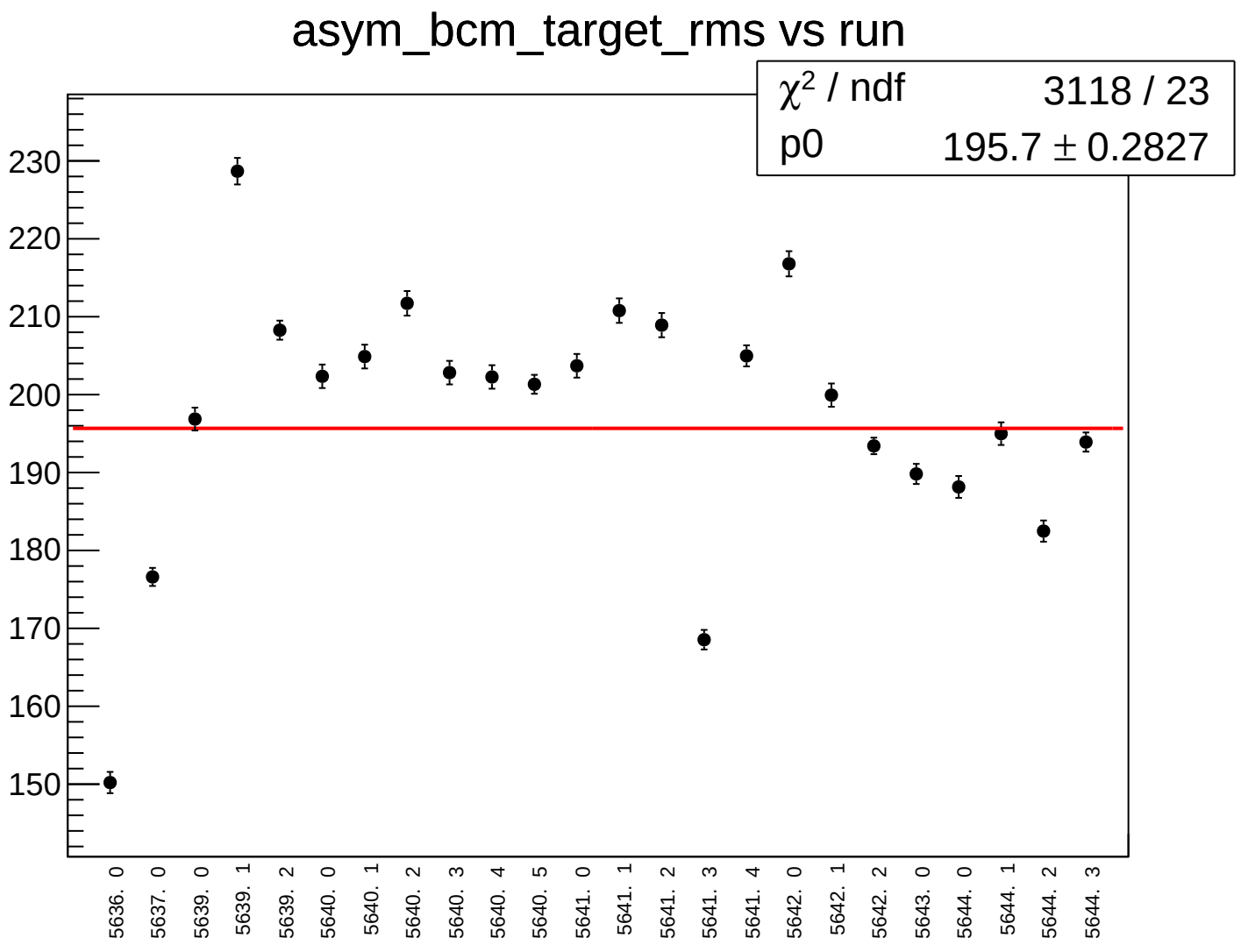

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 4321 / 23
p0 1.576e+05 ± 0.2585
157.66
157.65
157.64
157.63
157.62
157.61
157.6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


pull
Entries 24
Mean 841.7
Std Dev 0
20
10
0
−10
−20
−30


pull1D
Entries 24
Mean 1.191
Std Dev 4.507
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_bpm2i02WS_rms vs run
χ² / ndf 5627 / 23
p0 126.2 ± 0.1828
240
220
200
180
160
140
120
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_bcm_target_mean vs run
χ² / ndf 3.809 / 23
p0 0.1132 ± 399.8
4000
2000
0
−2000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 25.53
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 24
Mean 0.01514
Std Dev 0.3981
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_target_rms vs run
χ² / ndf 3118 / 23
p0 195.7 ± 0.2827
230
220
210
200
190
180
170
160
150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
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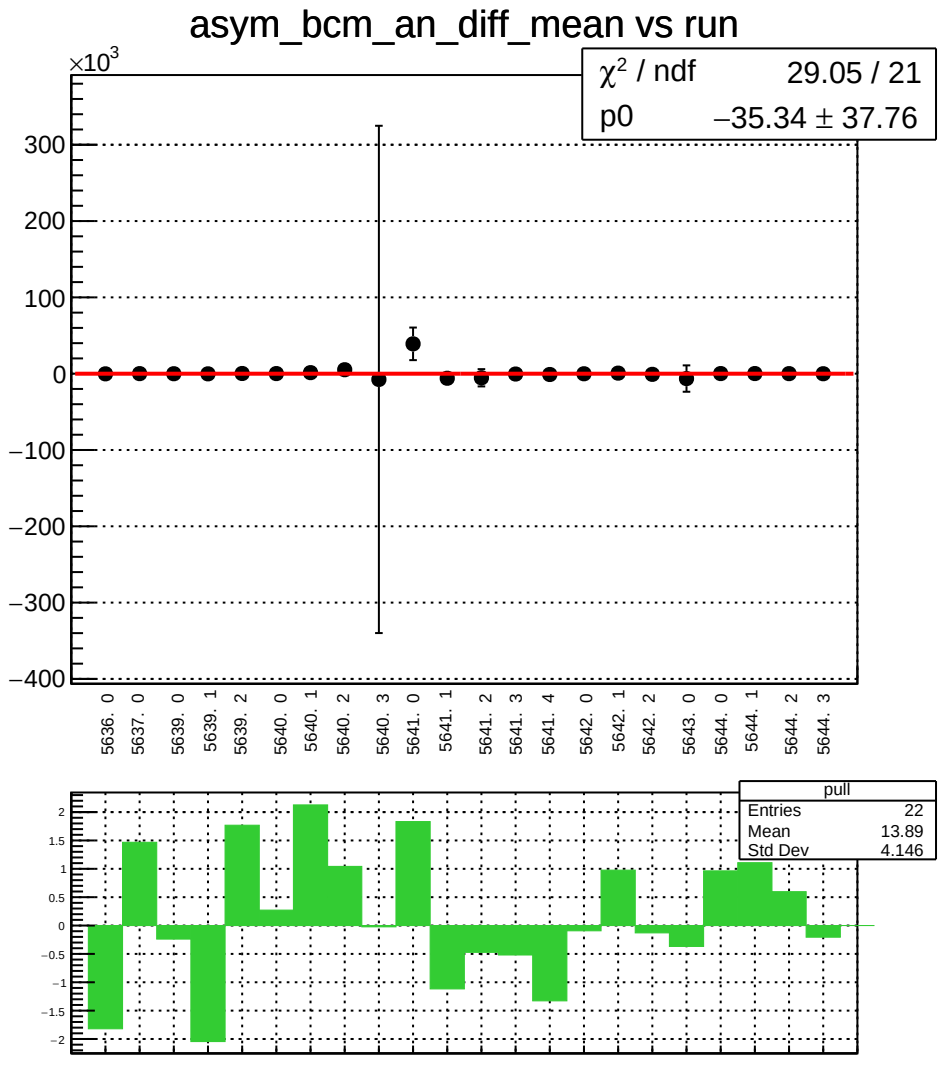
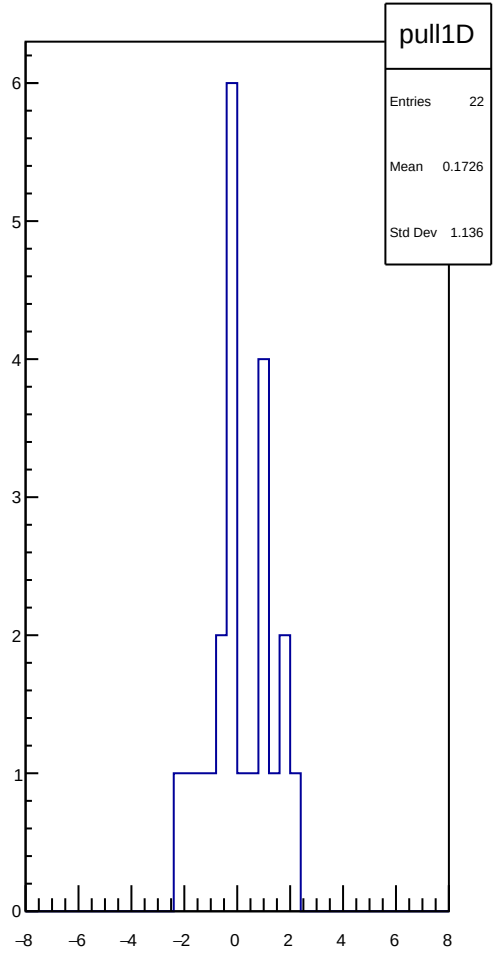
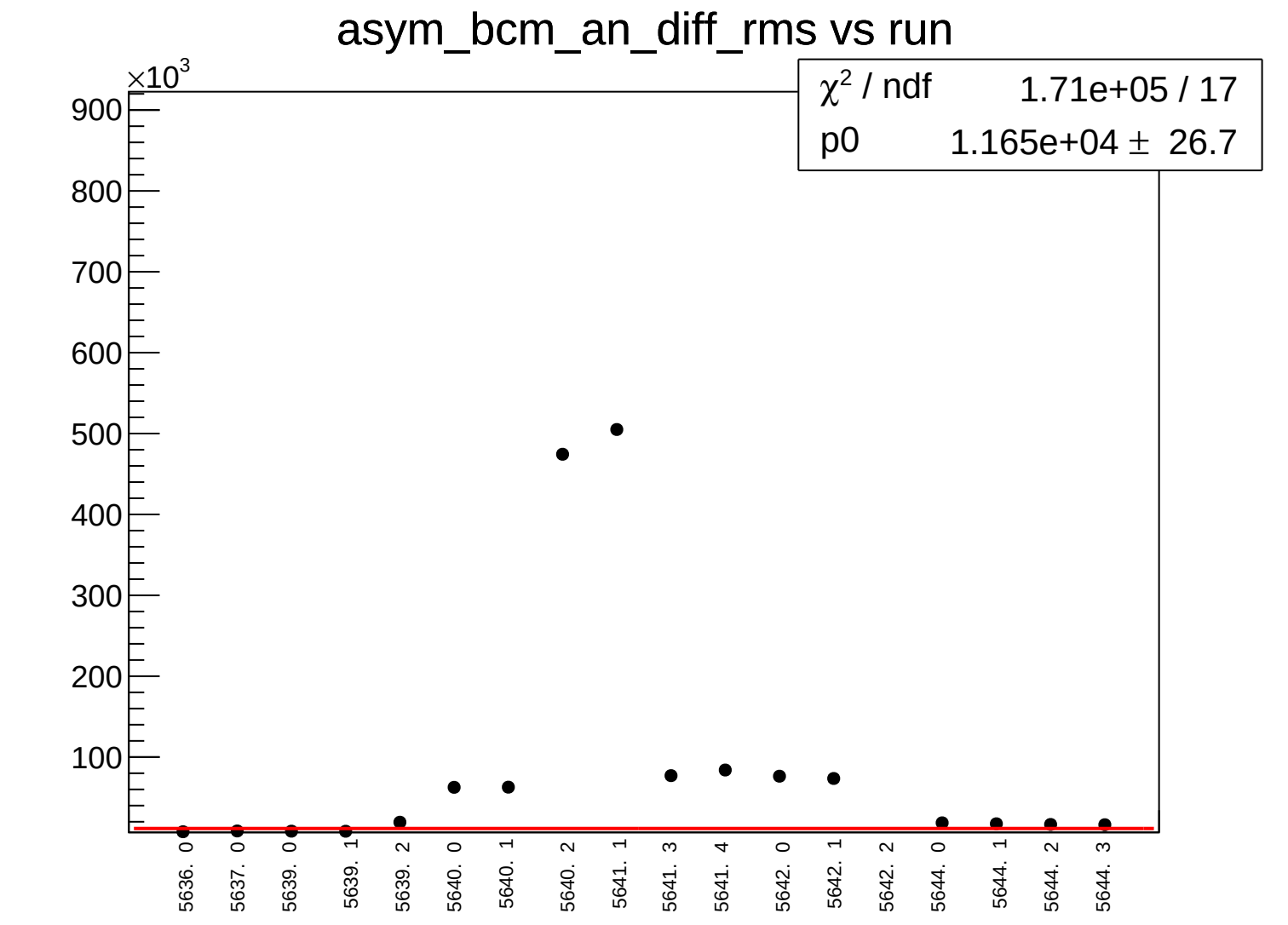
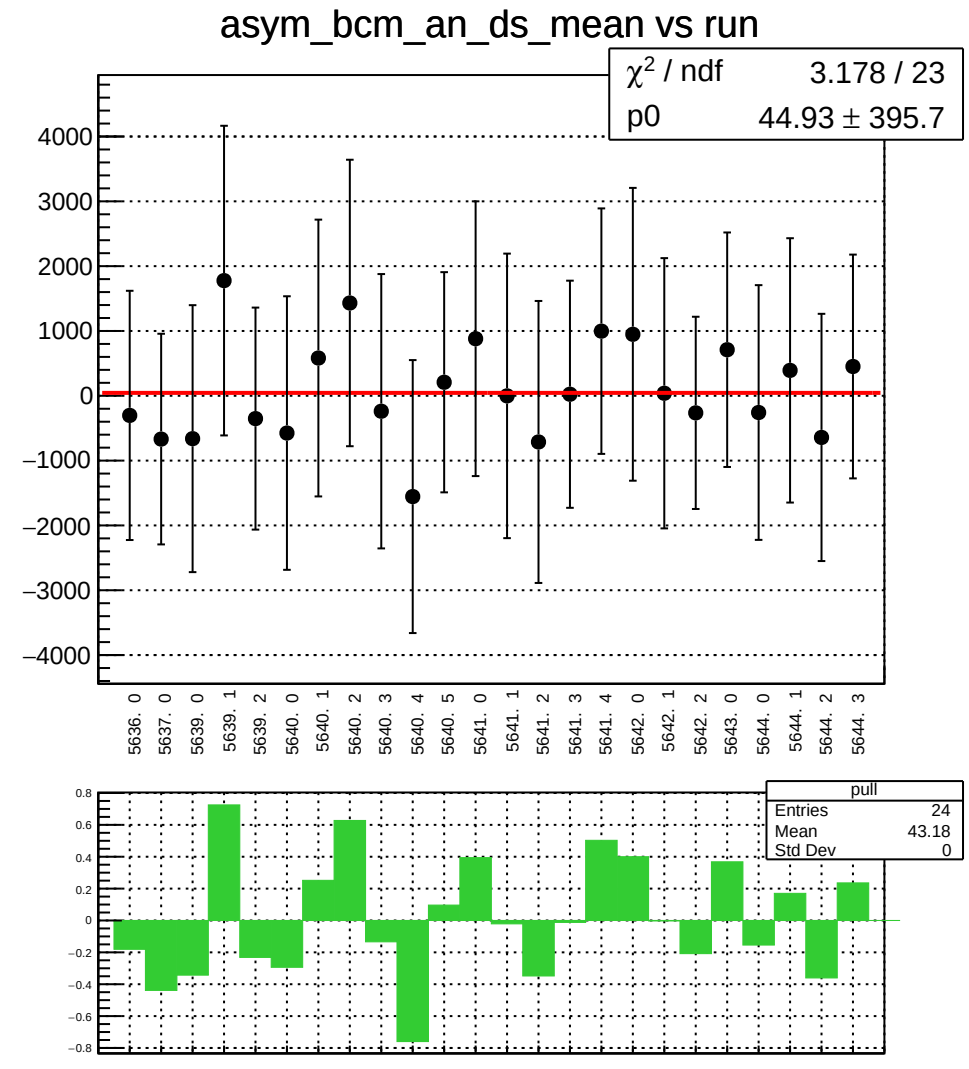
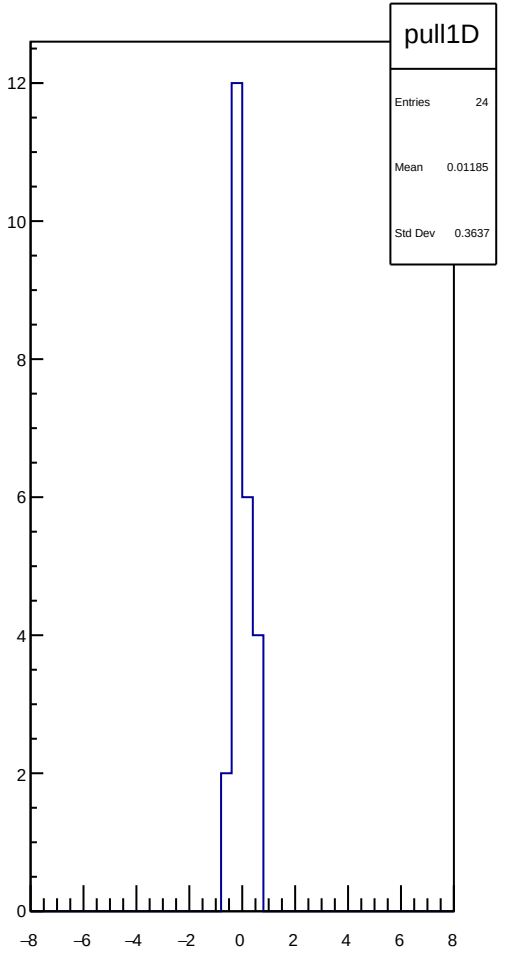
5644. 2
5644. 3

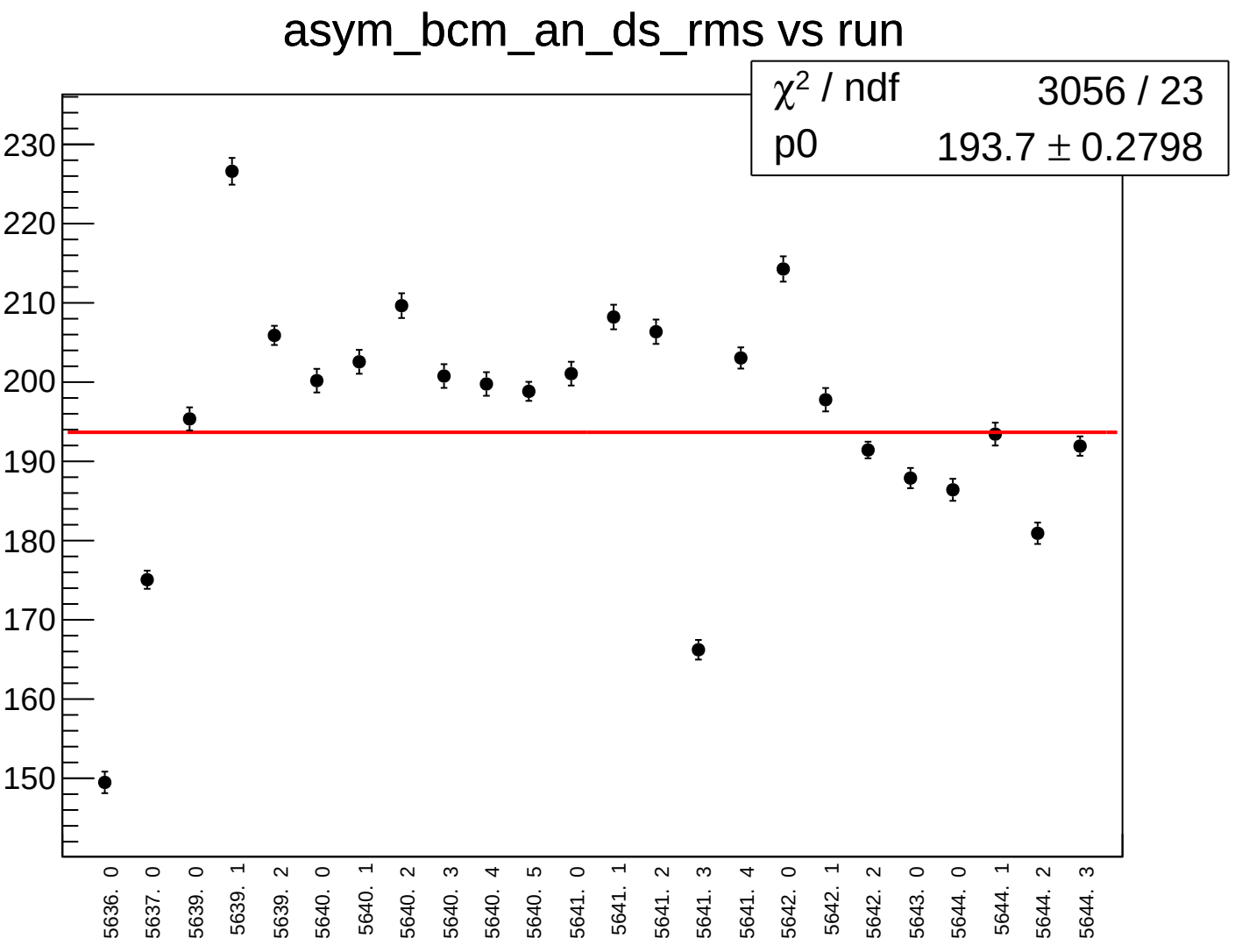

asym_bcm_an_diff_mean vs run
×10^3
χ² / ndf 29.05 / 21
p0 −35.34 ± 37.76
300
200
100
0
−100
−200
−300
−400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 22
Mean 13.89
Std Dev 4.146
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

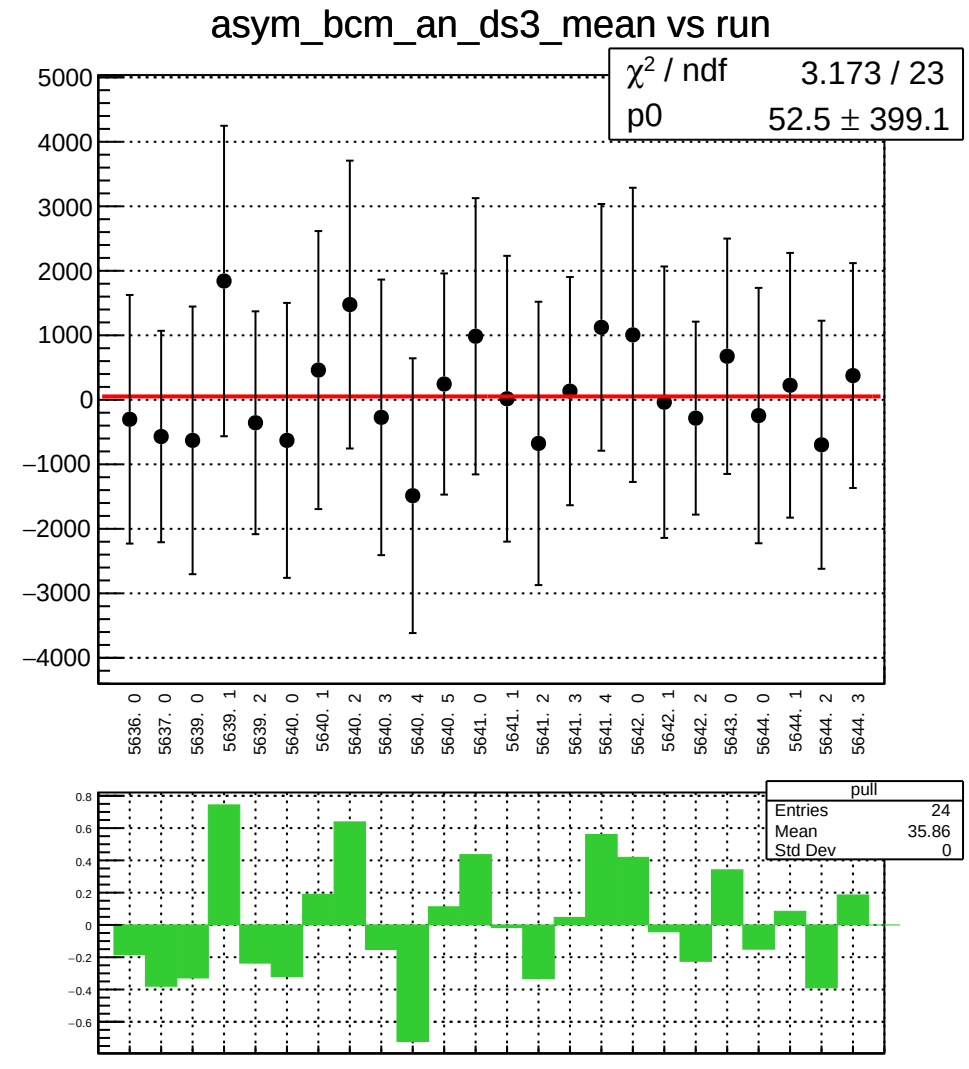

pull1D
Entries 22
Mean 0.1726
Std Dev 1.136
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

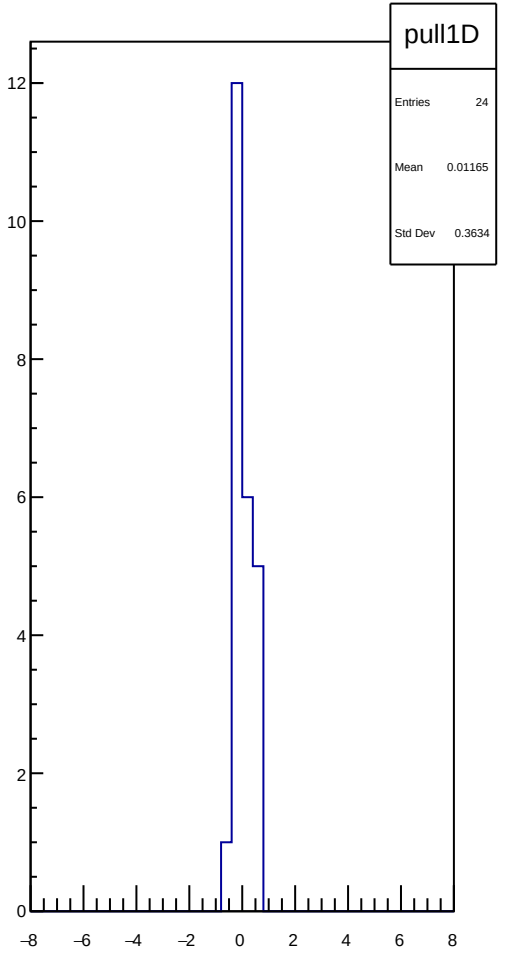

asym_bcm_an_diff_rms vs run
×10^3
900
800
700
600
500
400
300
200
100
χ² / ndf 1.71e+05 / 17
p0 1.165e+04 ± 26.7
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5641. 1
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5644. 0
5644. 1
5644. 2
5644. 3

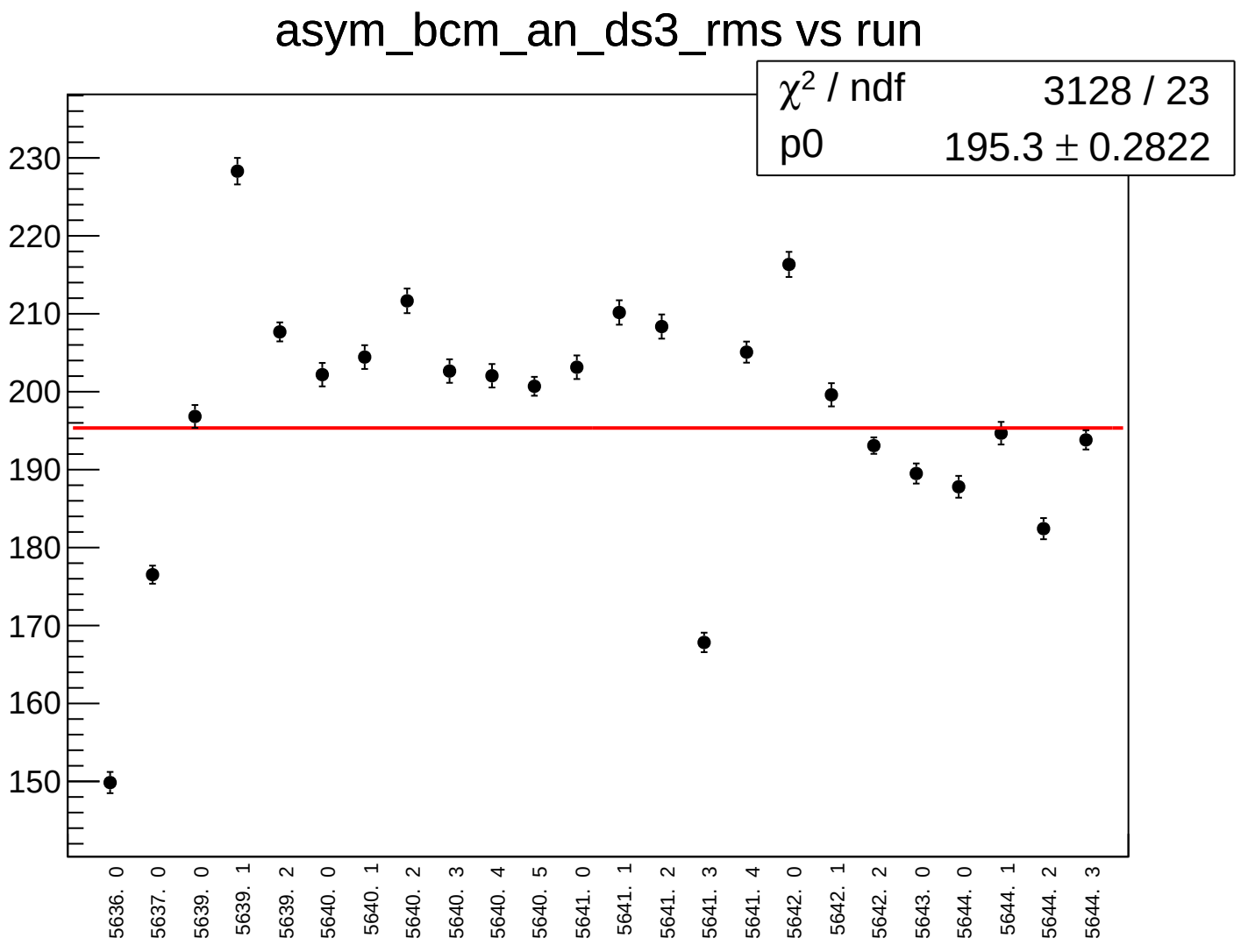

asym_bcm_an_ds_mean vs run
χ² / ndf 3.178 / 23
p0 44.93 ± 395.7
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 43.18
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

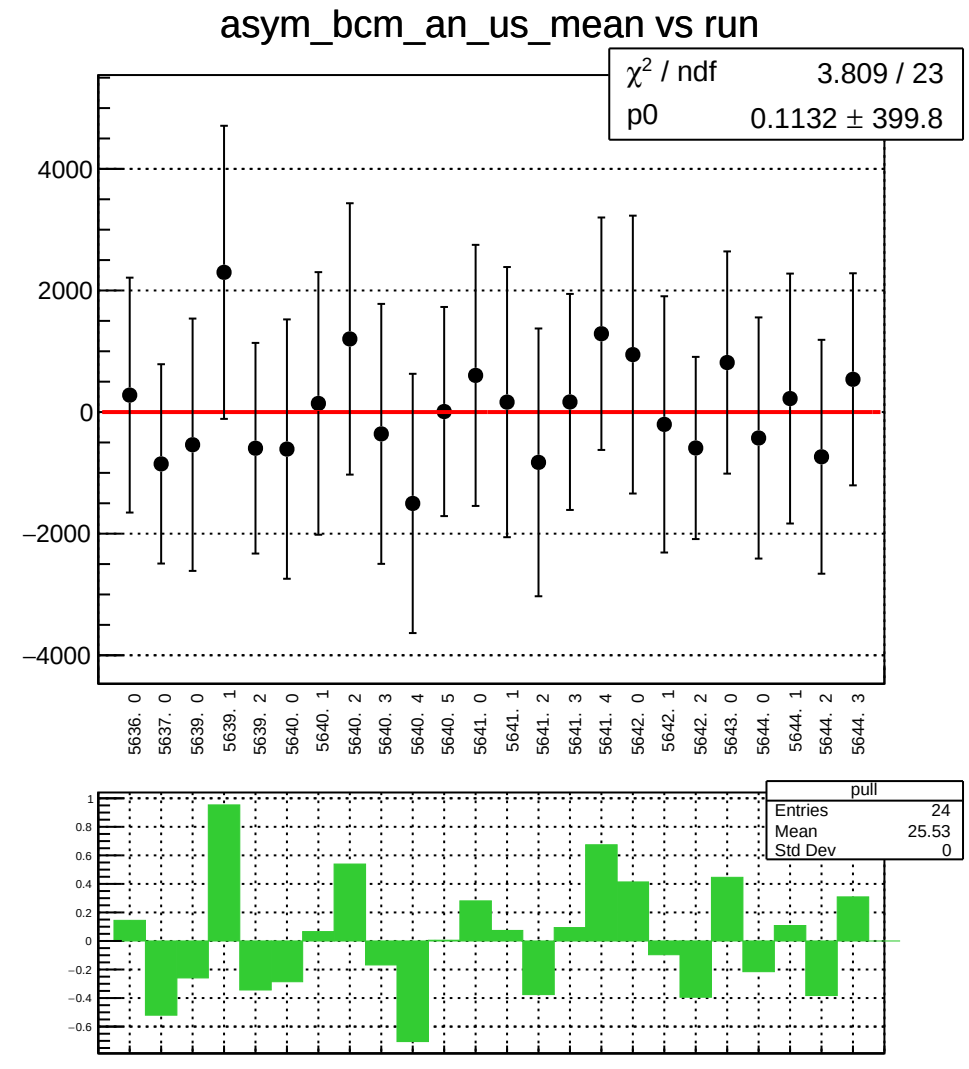

pull1D
Entries 24
Mean 0.01185
Std Dev 0.3637
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

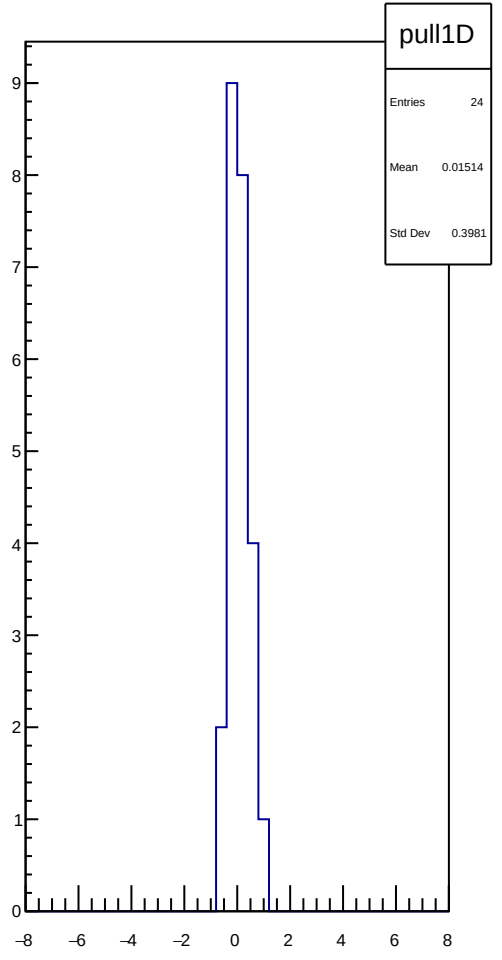

asym_bcm_an_ds_rms vs run
χ² / ndf 3056 / 23
p0 193.7 ± 0.2798
230
220
210
200
190
180
170
160
150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

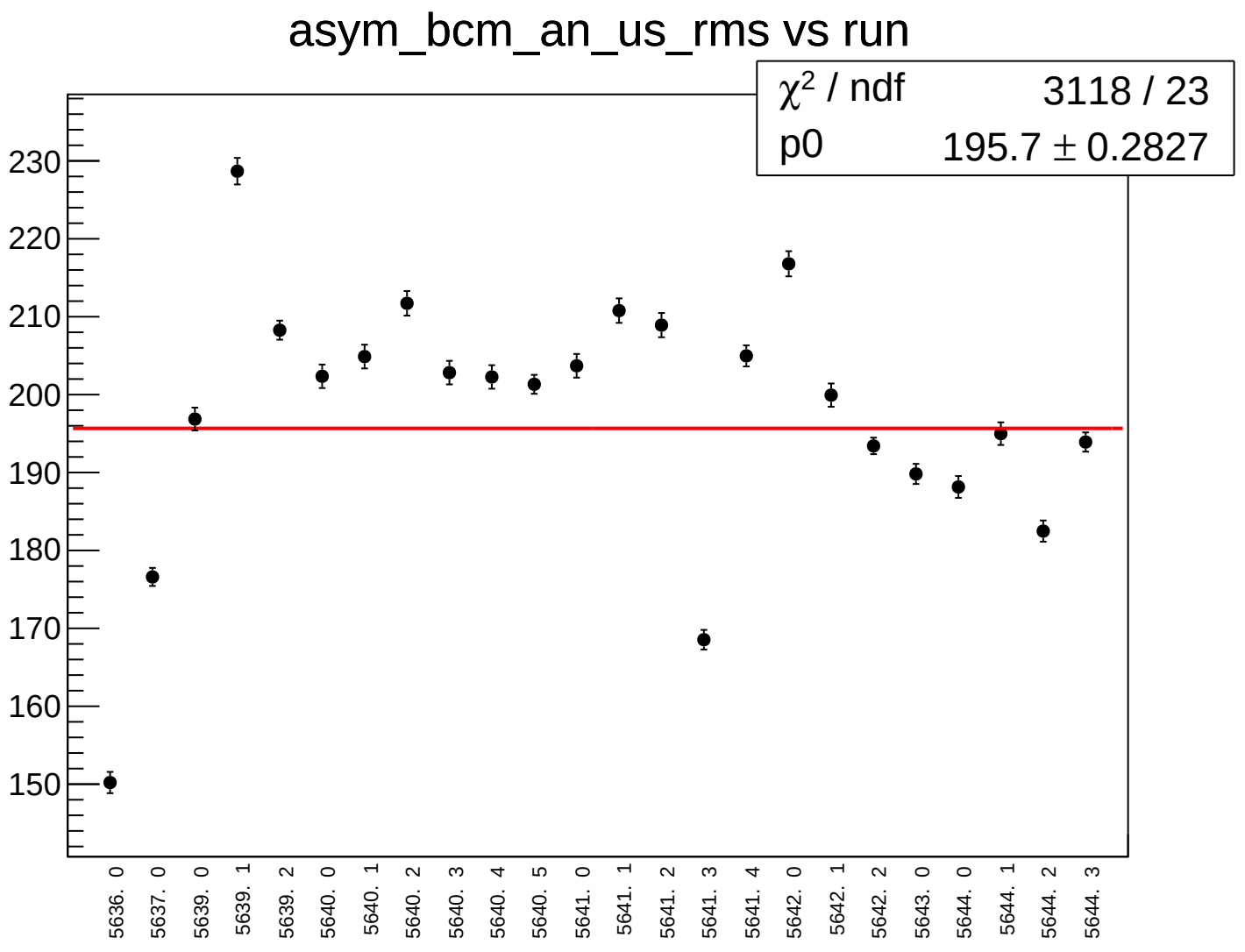

asym_bcm_an_ds3_mean vs run
χ² / ndf 3.173 / 23
p0 52.5 ± 399.1
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 35.86
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

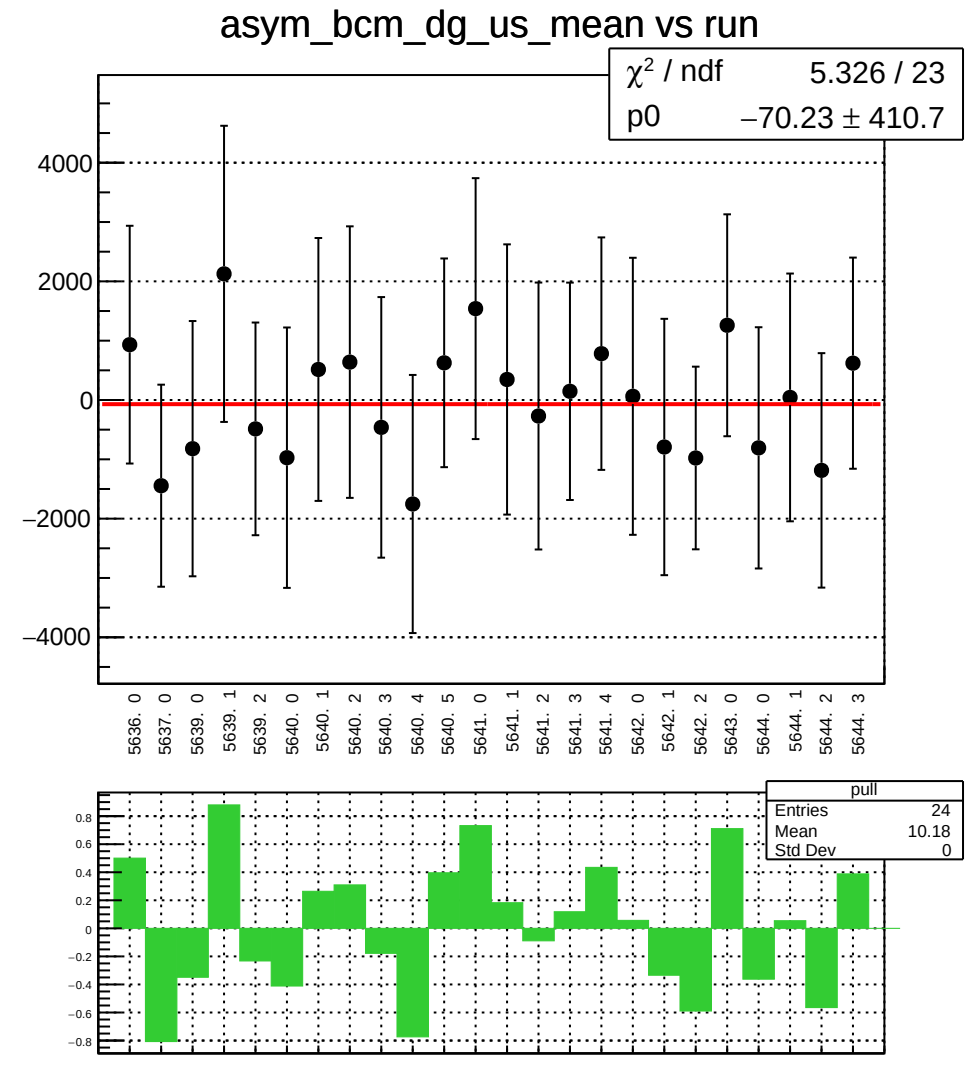

pull1D
Entries 24
Mean 0.01165
Std Dev 0.3634
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

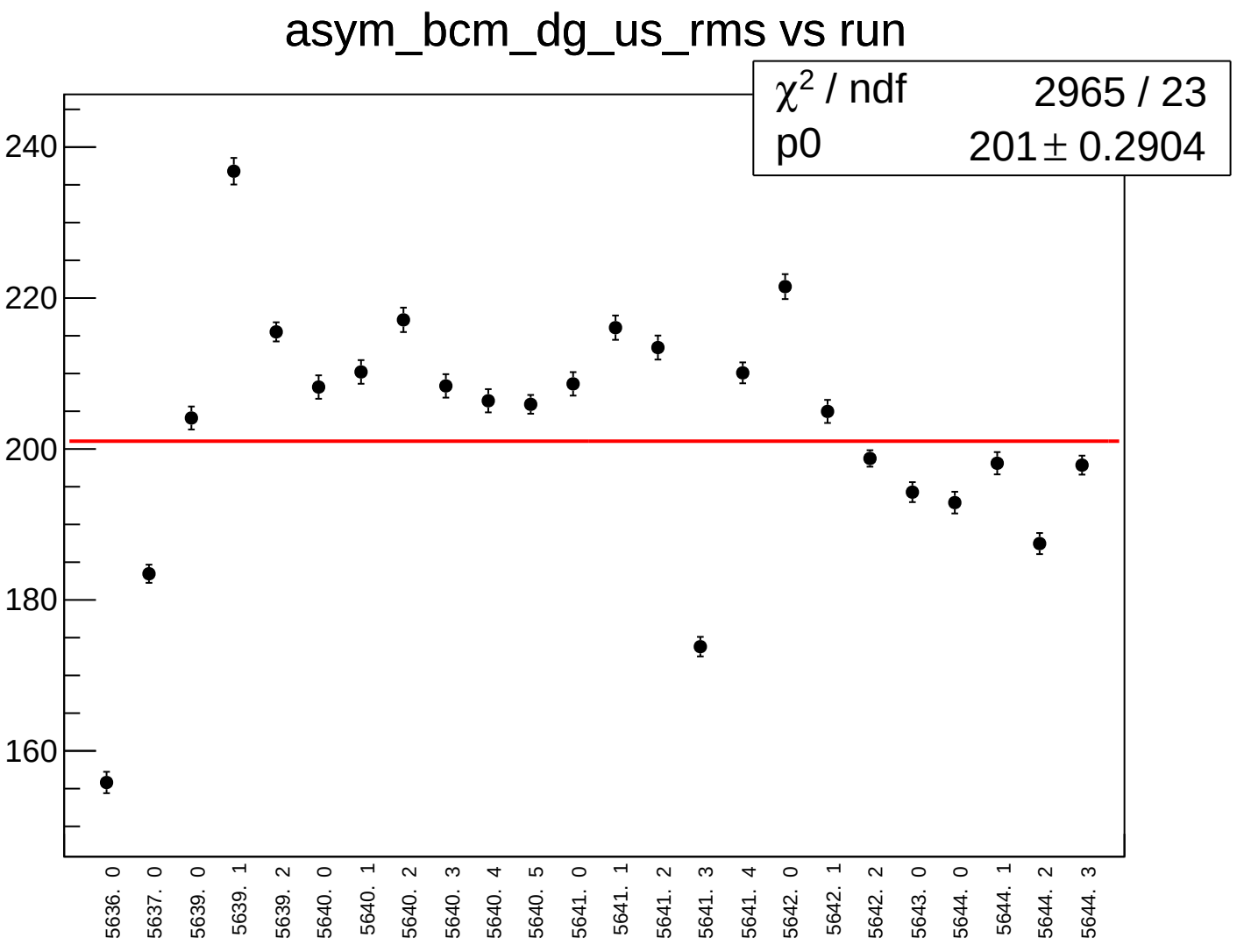

asym_bcm_an_ds3_rms vs run
χ² / ndf 3128 / 23
p0 195.3 ± 0.2822
230
220
210
200
190
180
170
160
150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

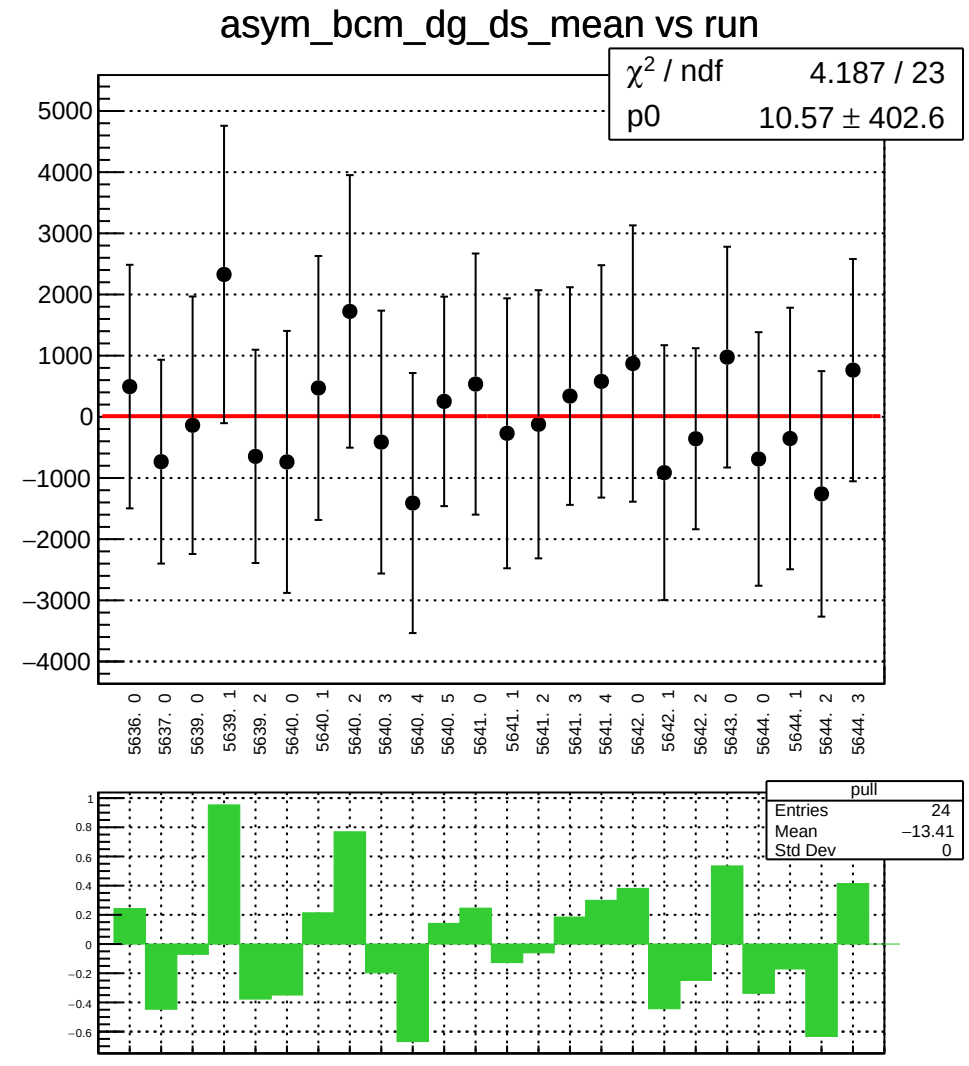

asym_bcm_an_us_mean vs run
χ² / ndf 3.809 / 23
p0 0.1132 ± 399.8
4000
2000
0
−2000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 25.53
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

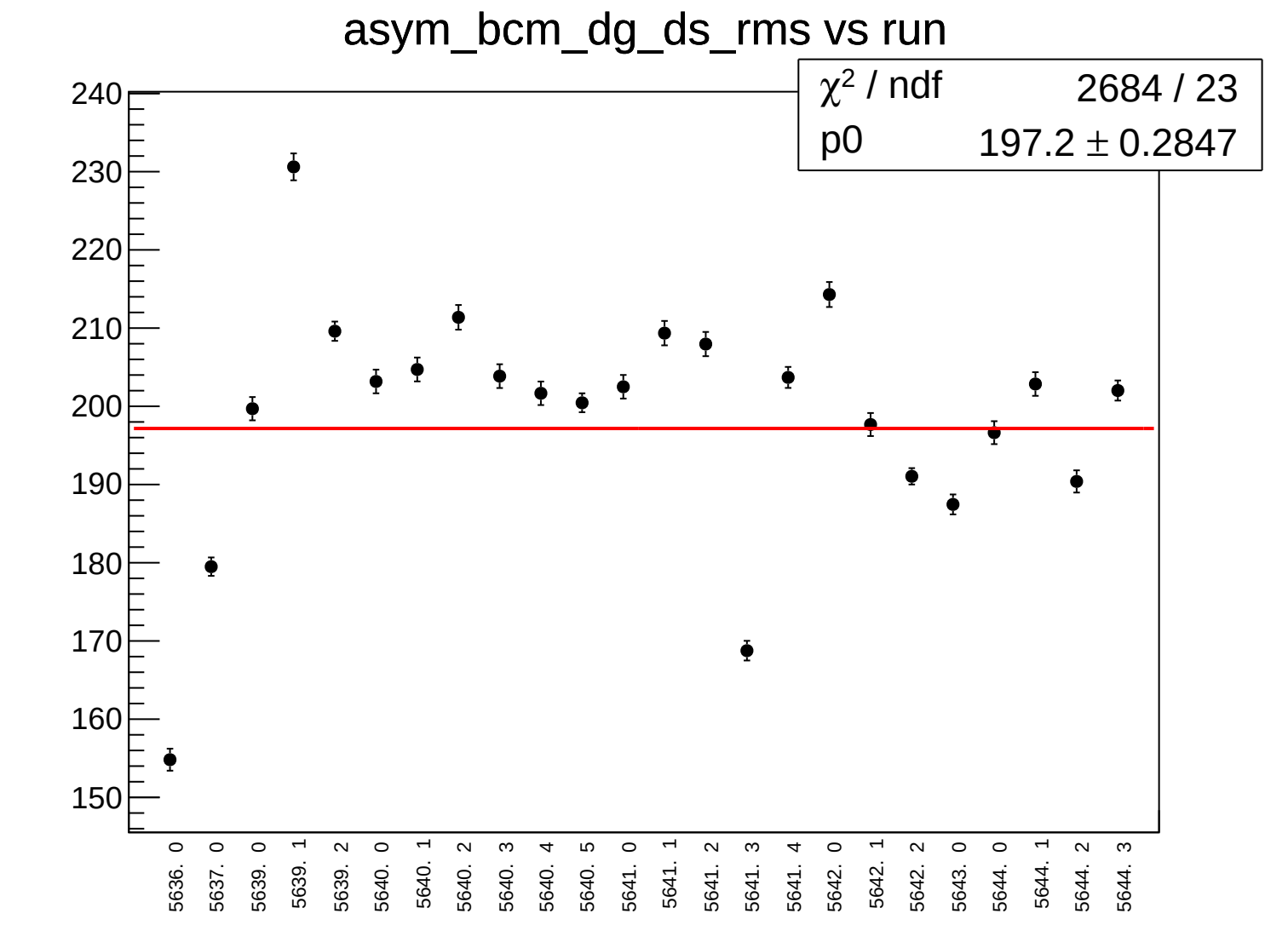

pull1D
Entries 24
Mean 0.01514
Std Dev 0.3981
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

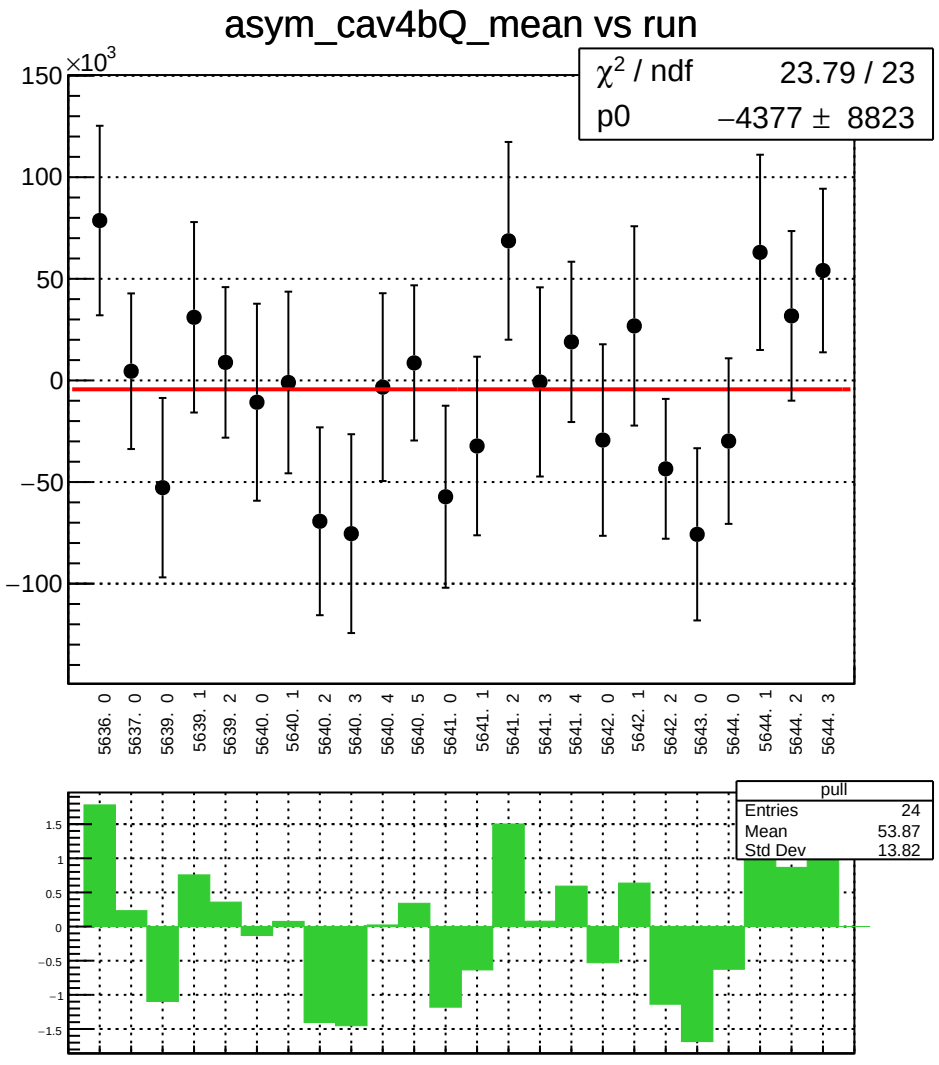

asym_bcm_an_us_rms vs run
χ² / ndf 3118 / 23
p0 195.7 ± 0.2827
230
220
210
200
190
180
170
160
150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

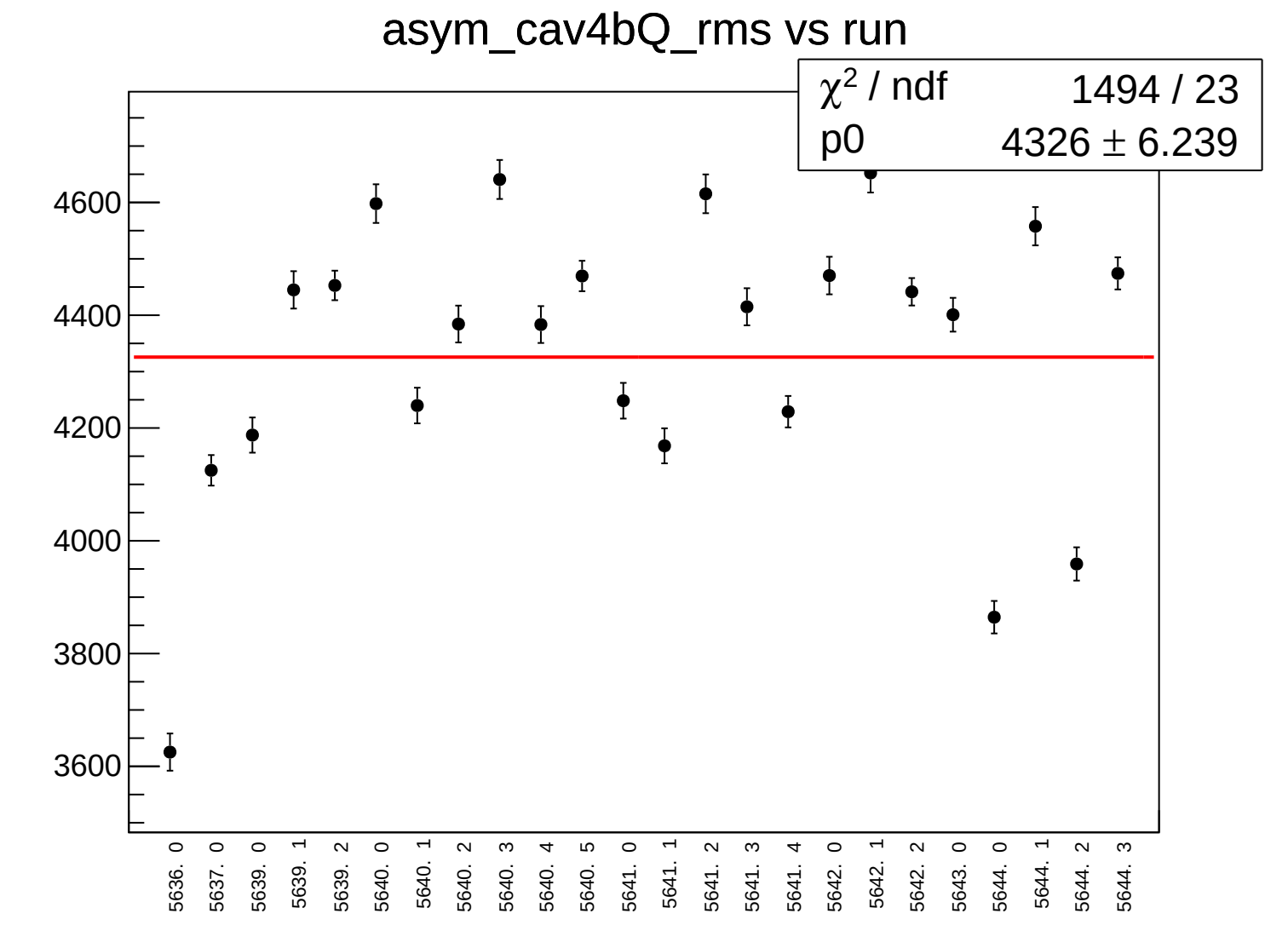

asym_bcm_dg_us_mean vs run
χ² / ndf 5.326 / 23
p0 −70.23 ± 410.7
4000
2000
0
−2000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 10.18
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean 0.01412
Std Dev 0.4709
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

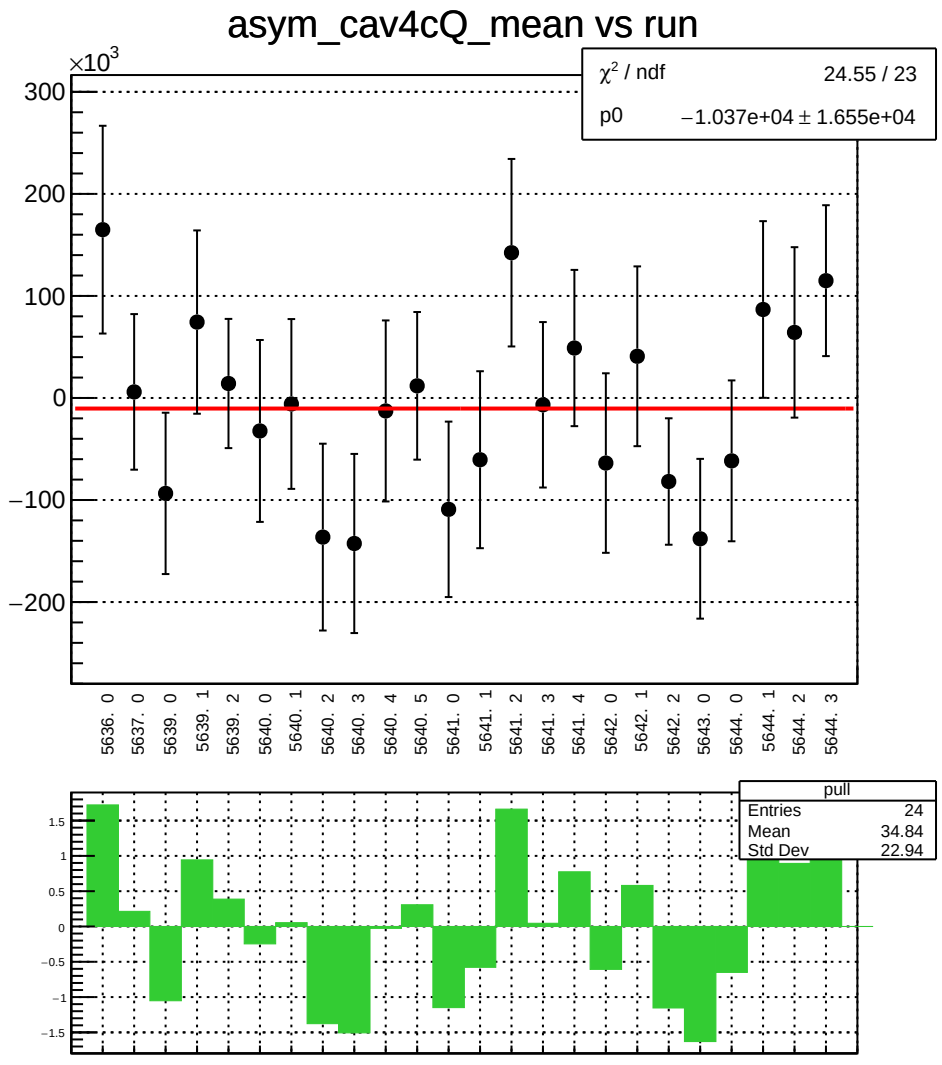

asym_bcm_dg_us_rms vs run
χ² / ndf 2965 / 23
p0 201 ± 0.2904
240
220
200
180
160
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

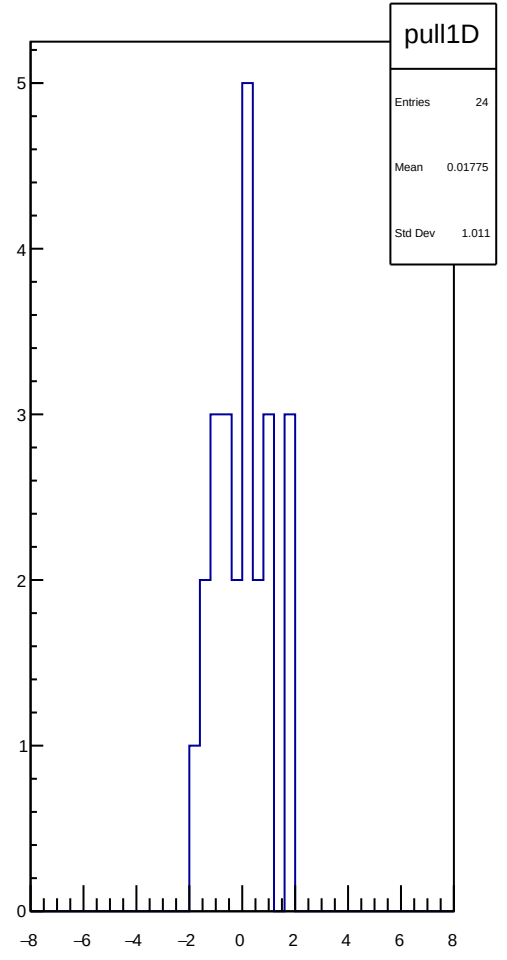

asym_bcm_dg_ds_mean vs run
χ² / ndf 4.187 / 23
p0 10.57 ± 402.6
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −13.41
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 24
Mean 0.0105
Std Dev 0.4175
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

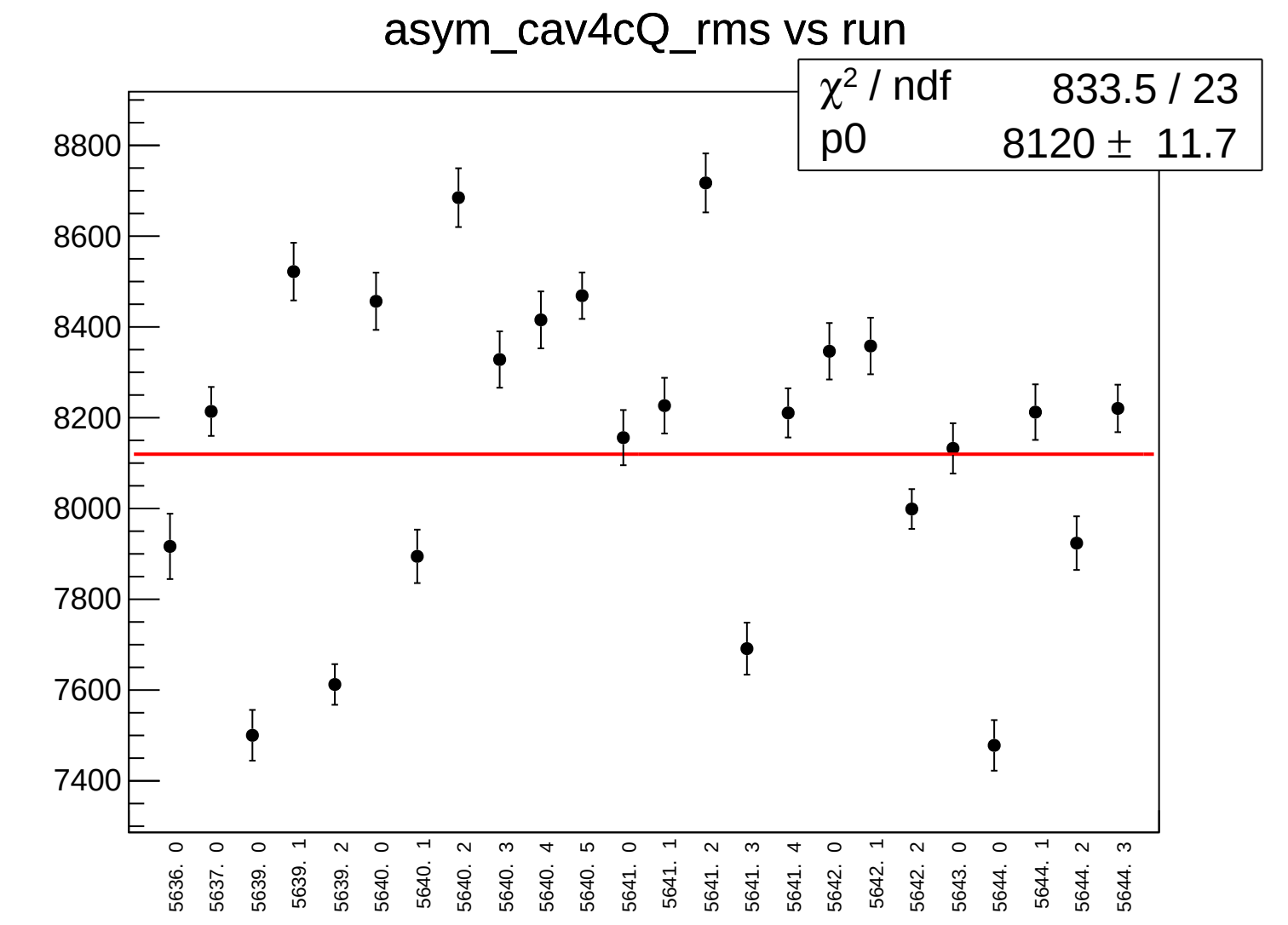

asym_bcm_dg_ds_rms vs run
χ² / ndf 2684 / 23
p0 197.2 ± 0.2847
240
230
220
210
200
190
180
170
160
150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

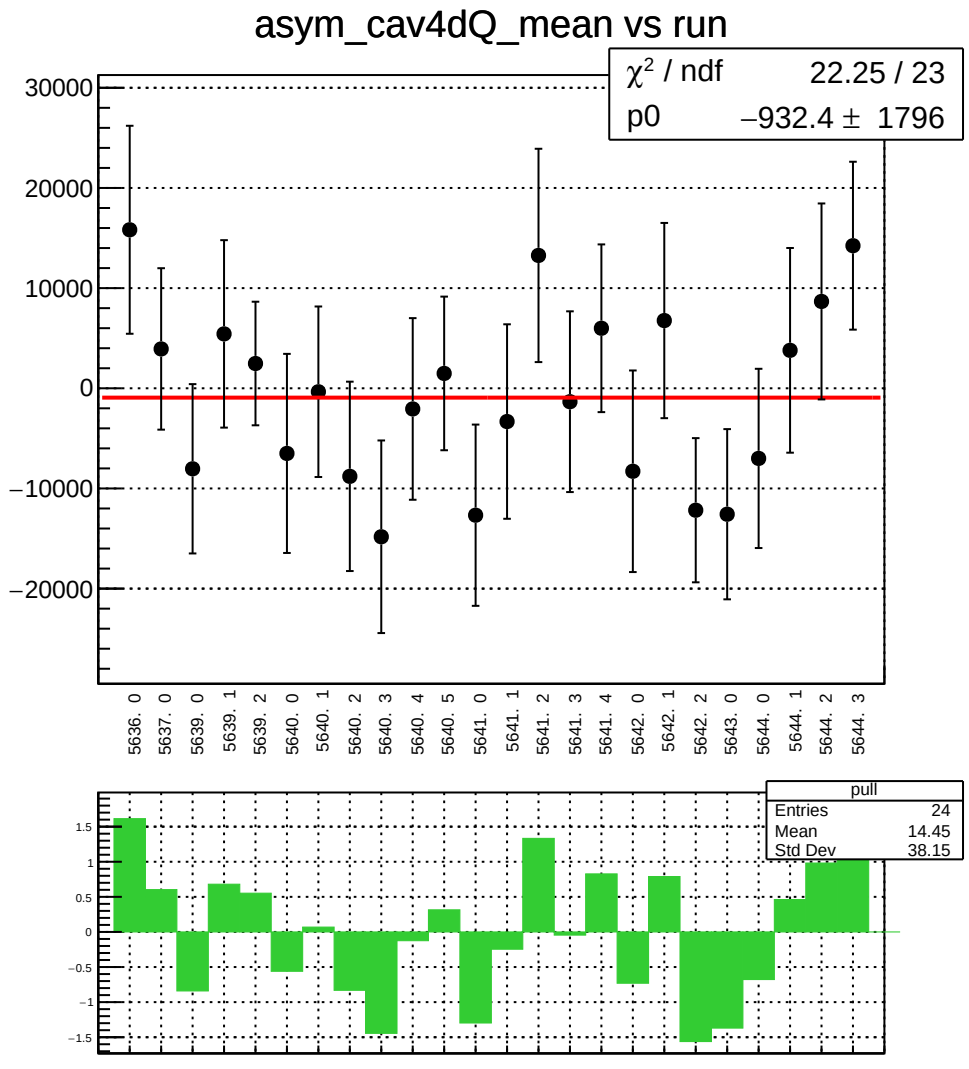

asym_cav4bQ_mean vs run
χ² / ndf 23.79 / 23
p0 −4377 ± 8823
×10³
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 53.87
Std Dev 13.82
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.009301
Std Dev 0.9956
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

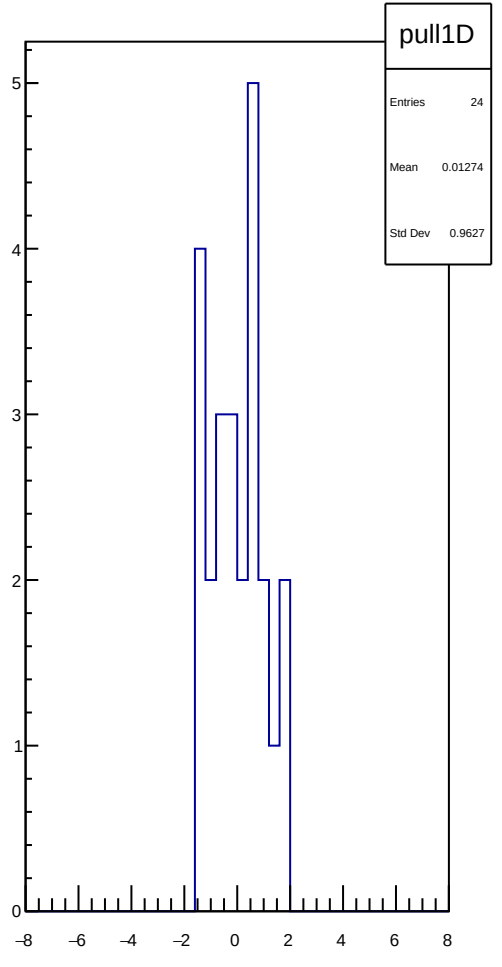

asym_cav4bQ_rms vs run
χ² / ndf 1494 / 23
p0 4326 ± 6.239
4600
4400
4200
4000
3800
3600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

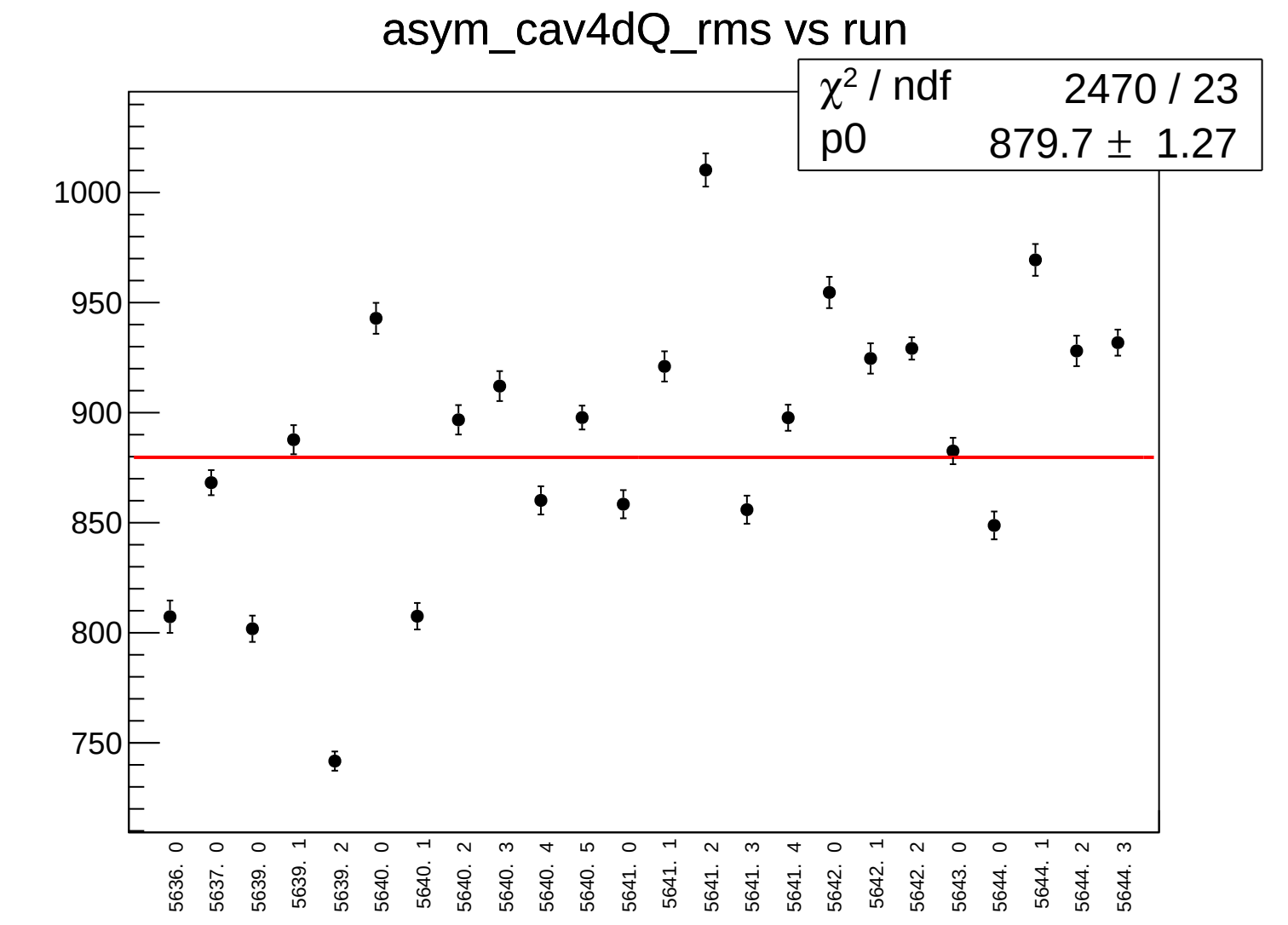

asym_cav4cQ_mean vs run
×10^3
χ² / ndf 24.55 / 23
p0 −1.037e+04 ± 1.655e+04
300
200
100
0
−100
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 34.84
Std Dev 22.94
1.5
1
0.5
0
−0.5
−1
−1.5

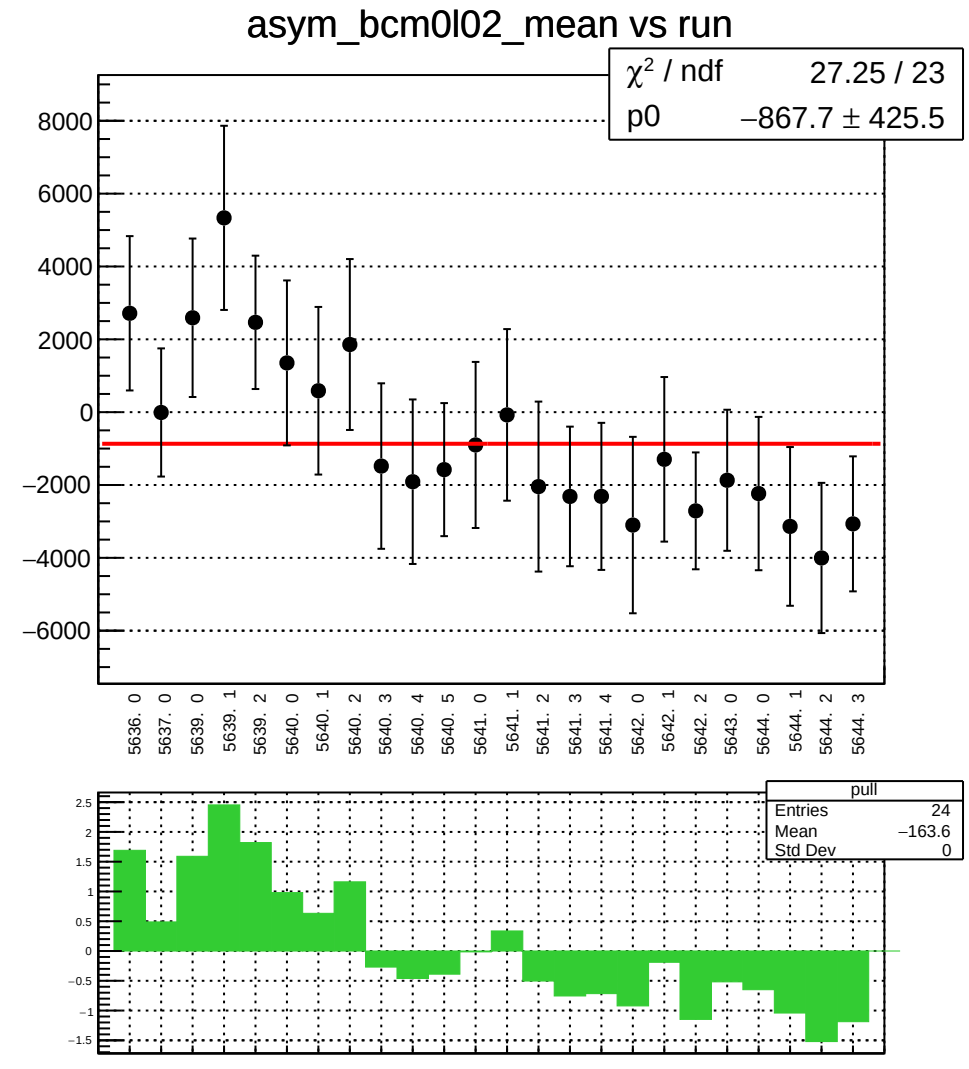

pull1D
Entries 24
Mean 0.01775
Std Dev 1.011
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

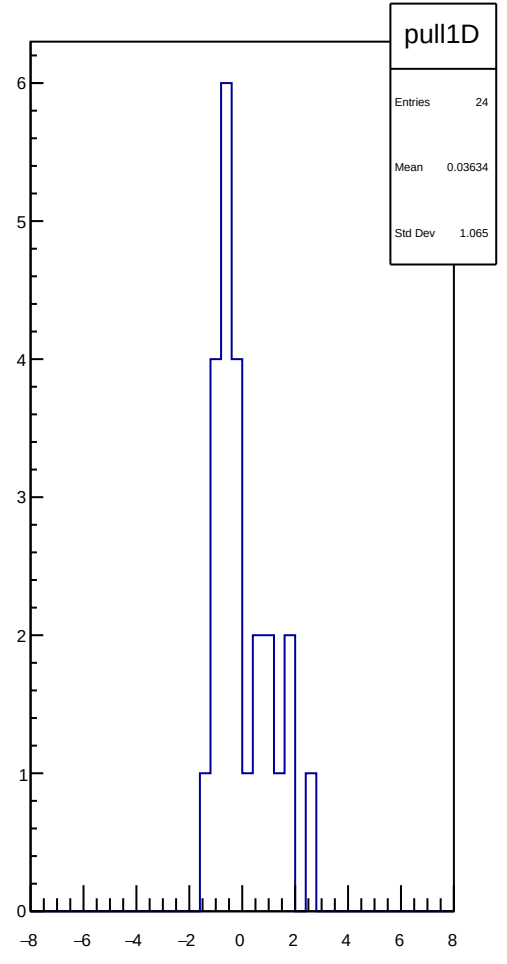

asym_cav4cQ_rms vs run
χ² / ndf 833.5 / 23
p0 8120 ± 11.7
8800
8600
8400
8200
8000
7800
7600
7400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

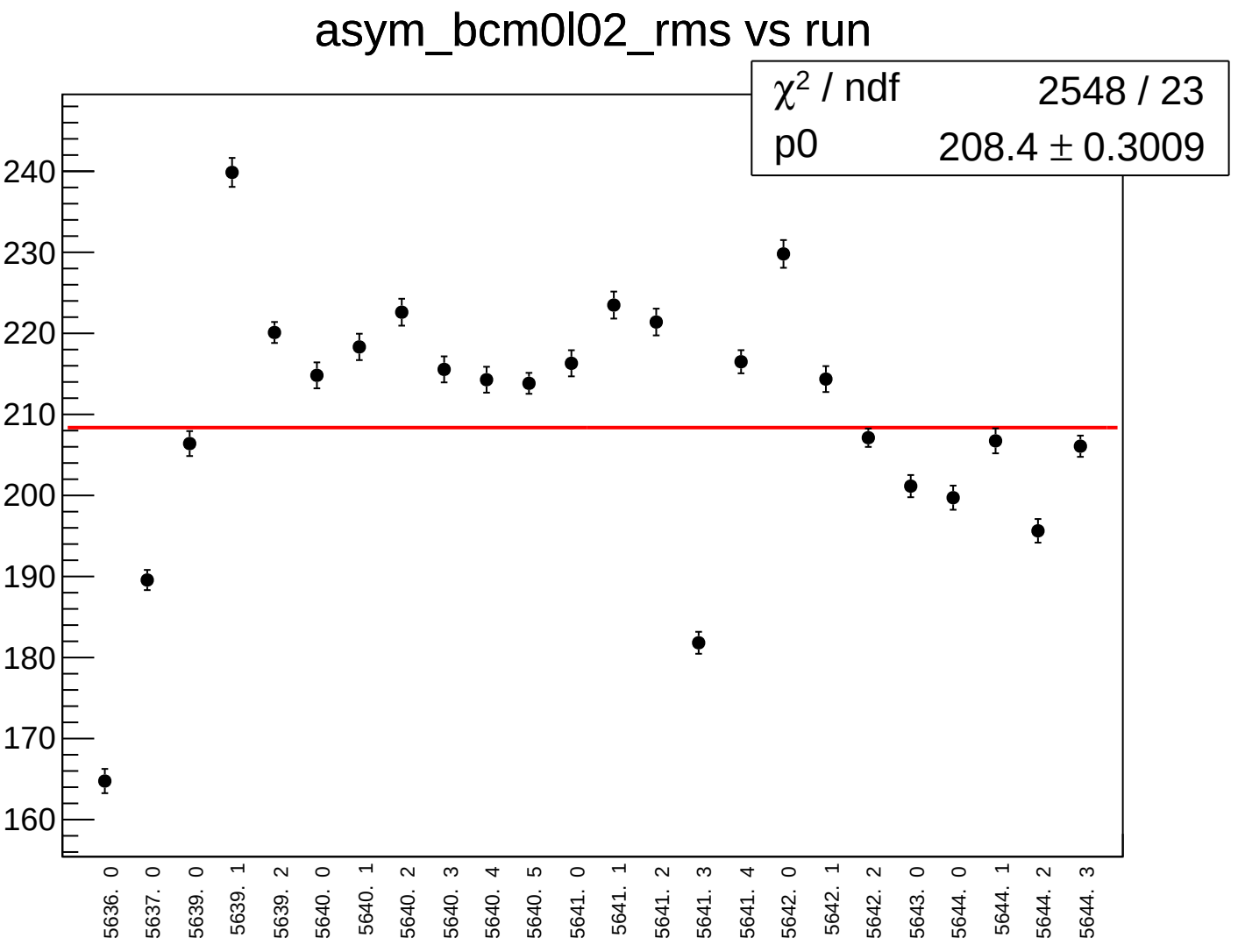

asym_cav4dQ_mean vs run
χ² / ndf 22.25 / 23
p0 −932.4 ± 1796
30000
20000
10000
0
−10000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 14.45
Std Dev 38.15
1.5
1
0.5
0
−0.5
−1
−1.5

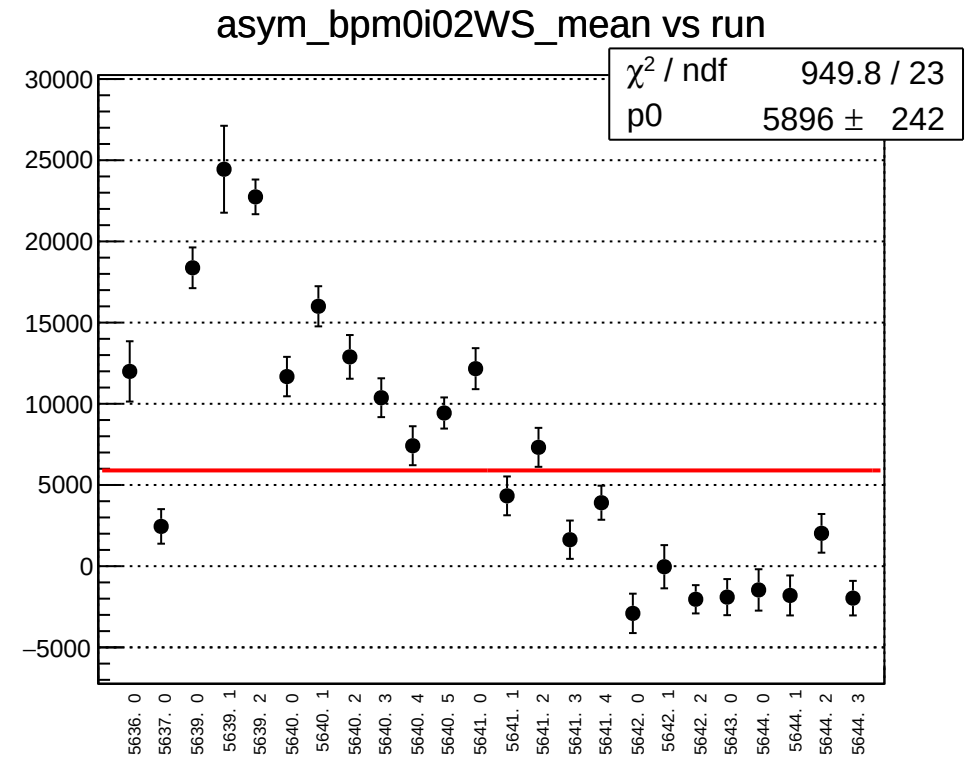

pull1D
Entries 24
Mean 0.01274
Std Dev 0.9627
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

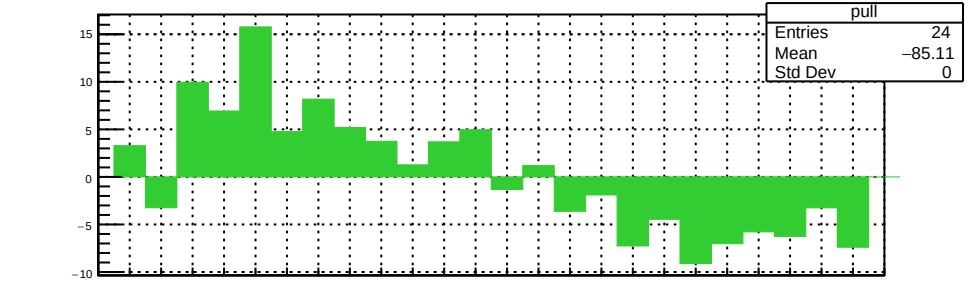

asym_cav4dQ_rms vs run
χ² / ndf 2470 / 23
p0 879.7 ± 1.27
1000
950
900
850
800
750
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

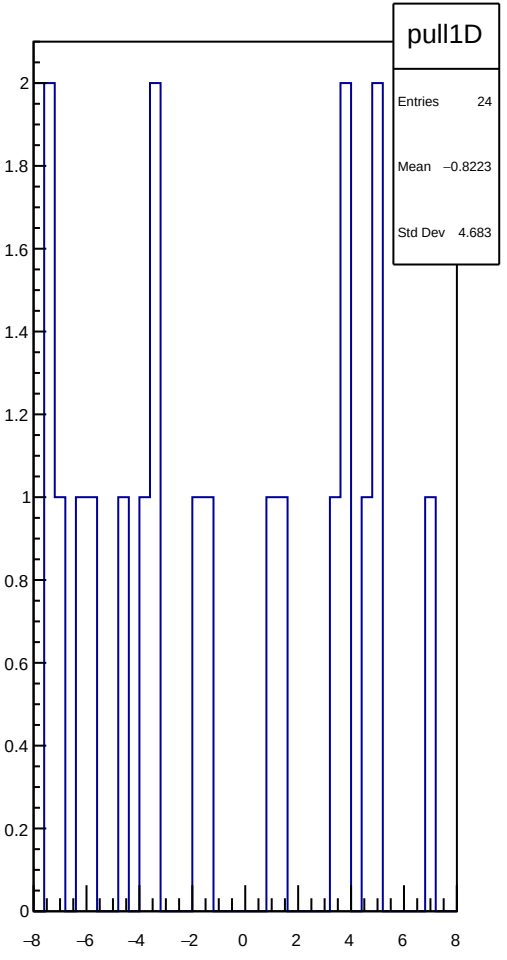

asym_bcm0l02_mean vs run
χ² / ndf 27.25 / 23
p0 −867.7 ± 425.5
8000
6000
4000
2000
0
−2000
−4000
−6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −163.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

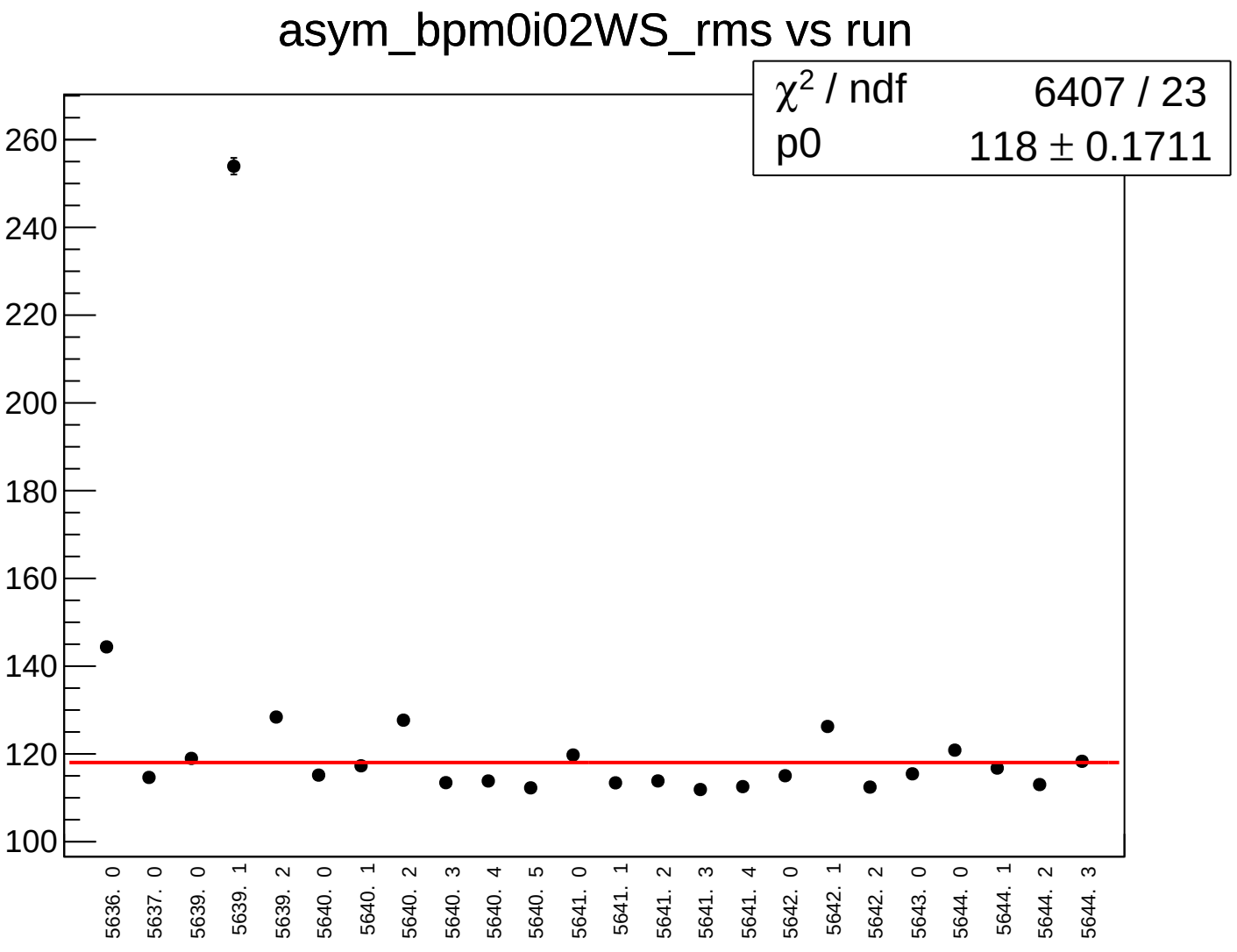

pull1D
Entries 24
Mean 0.03634
Std Dev 1.065
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

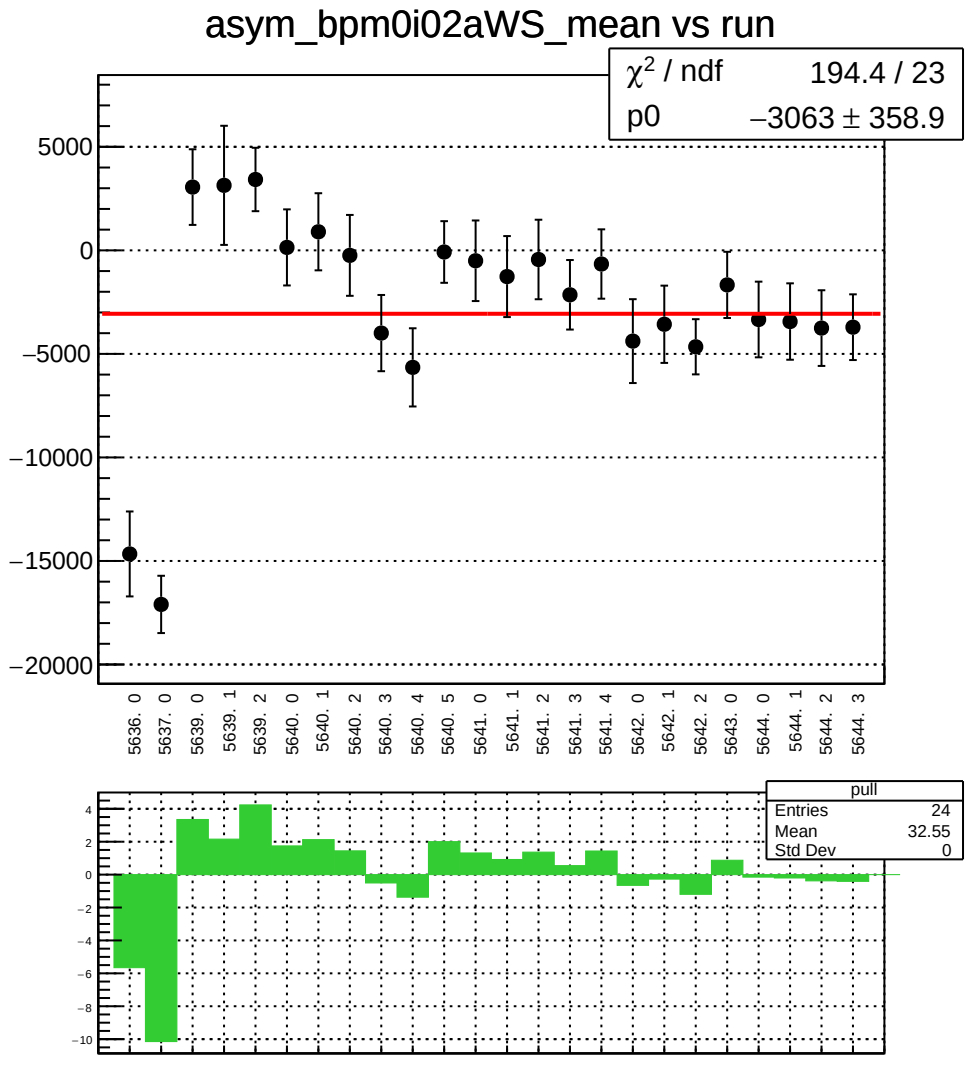

asym_bcm0l02_rms vs run
χ² / ndf 2548 / 23
p0 208.4 ± 0.3009
240
230
220
210
200
190
180
170
160
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

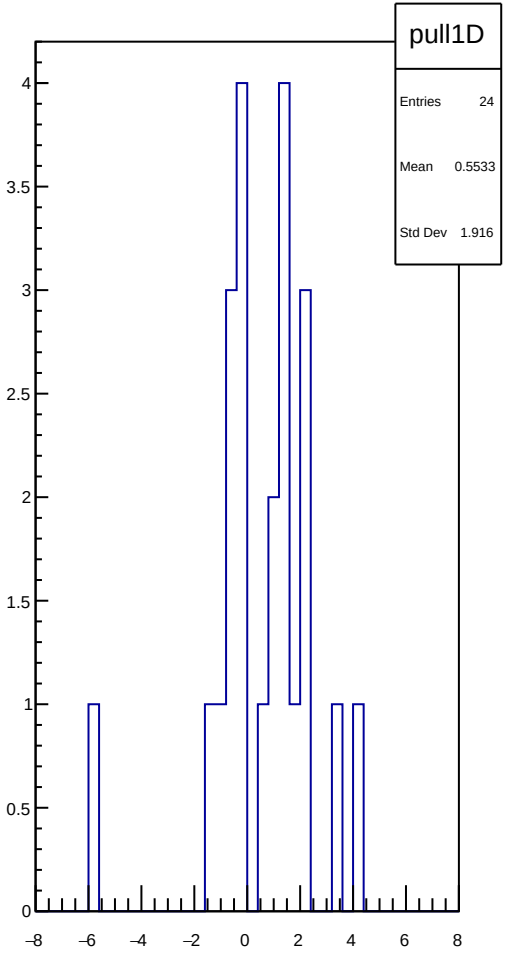

asym_bpm0i02WS_mean vs run
χ² / ndf 949.8 / 23
p0 5896 ± 242
30000
25000
20000
15000
10000
5000
0
−5000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

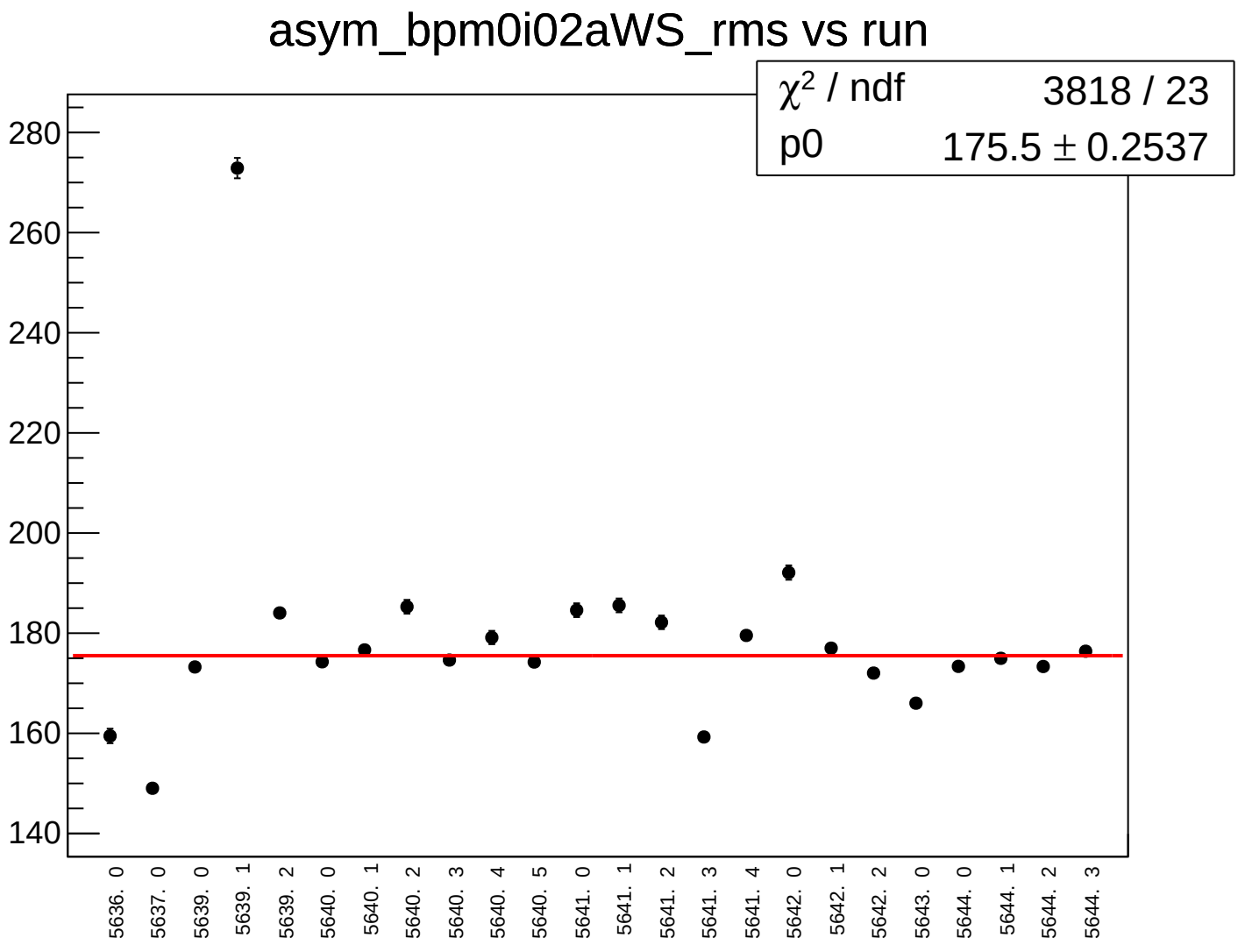

pull
Entries 24
Mean −85.11
Std Dev 0
15
10
5
0
−5
−10

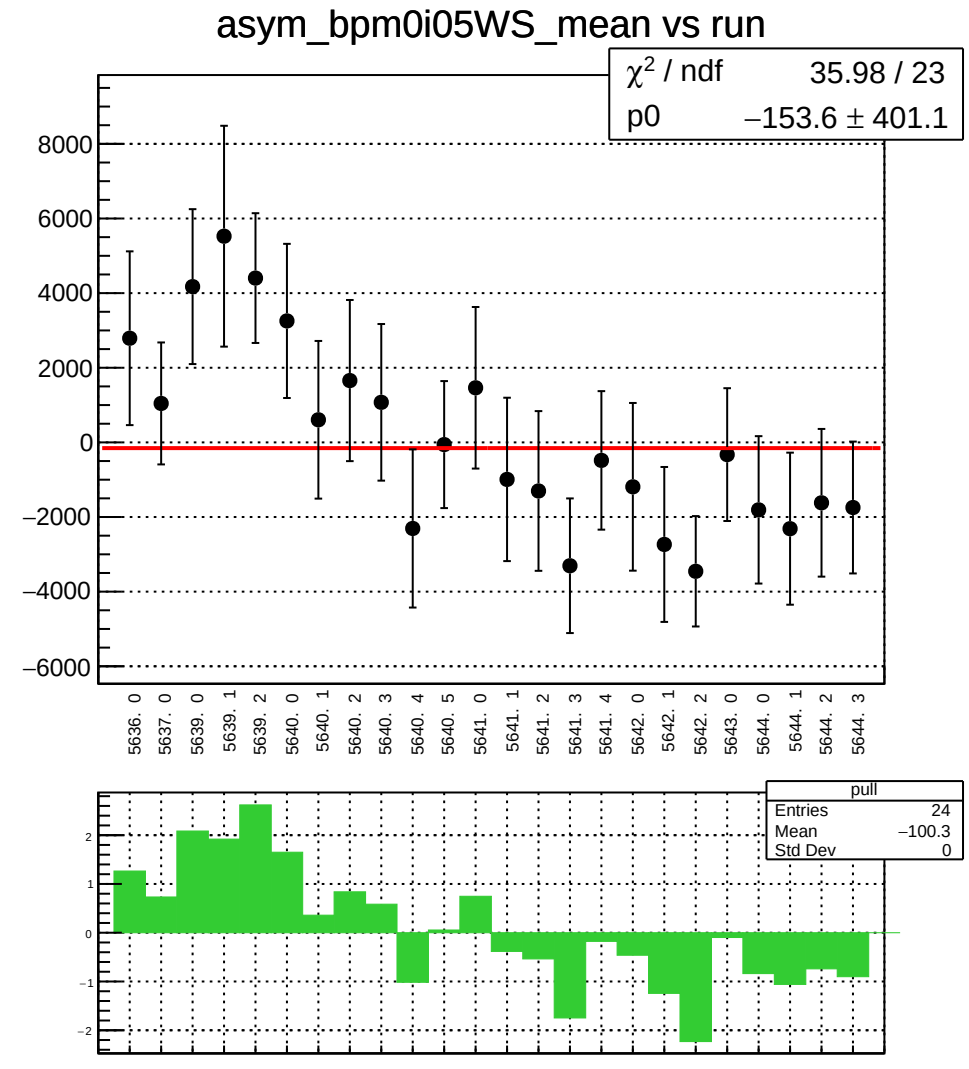

pull1D
Entries 24
Mean −0.8223
Std Dev 4.683
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

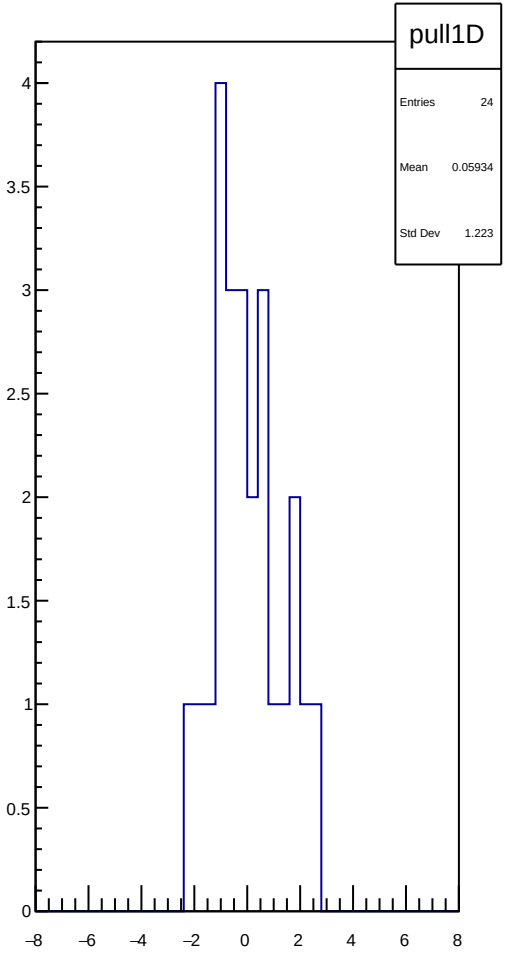

asym_bpm0i02WS_rms vs run
χ² / ndf 6407 / 23
p0 118 ± 0.1711
260
240
220
200
180
160
140
120
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

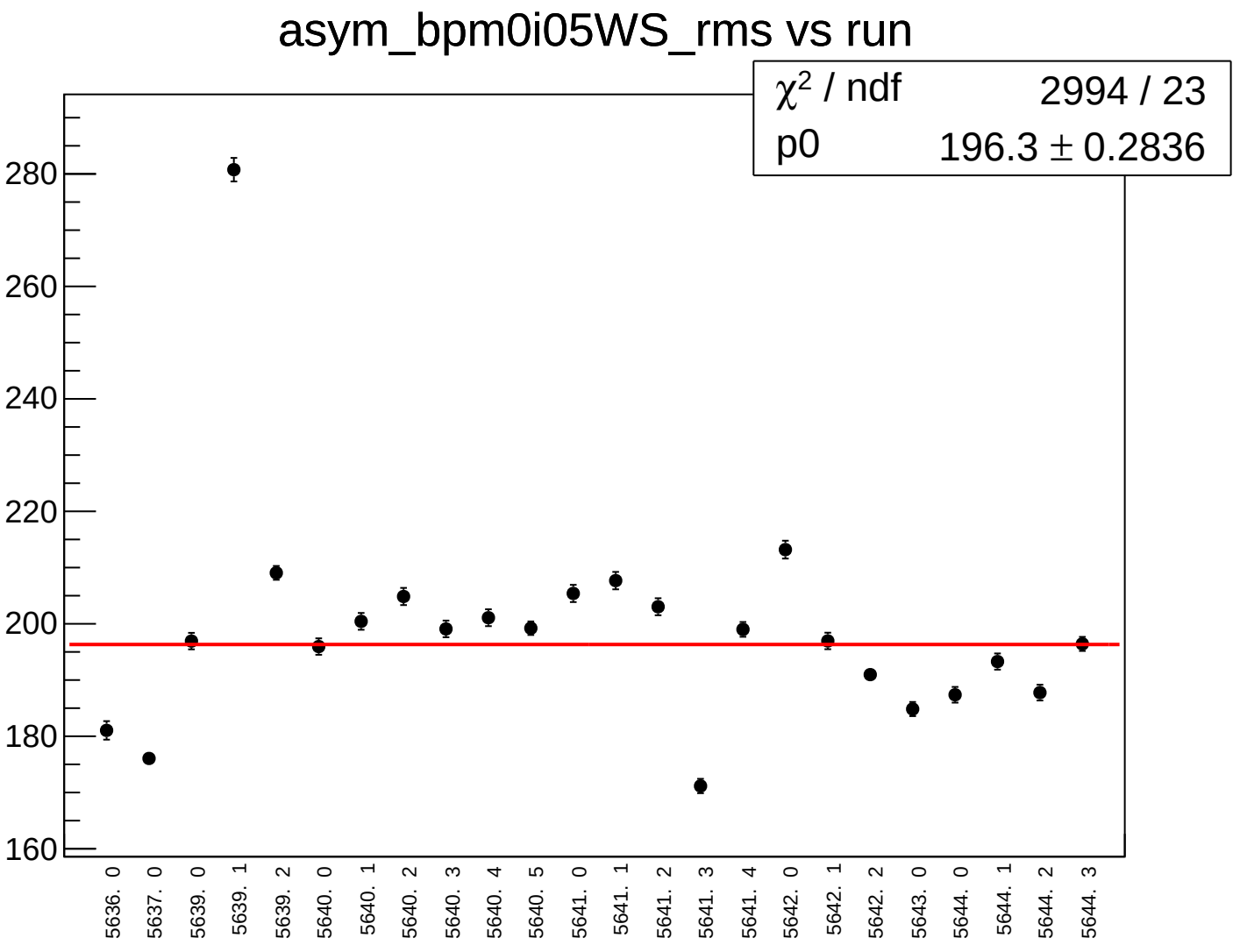

asym_bpm0i02aWS_mean vs run
χ² / ndf 194.4 / 23
p0 −3063 ± 358.9
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 32.55
Std Dev 0
4
2
0
−2
−4
−6
−8
−10

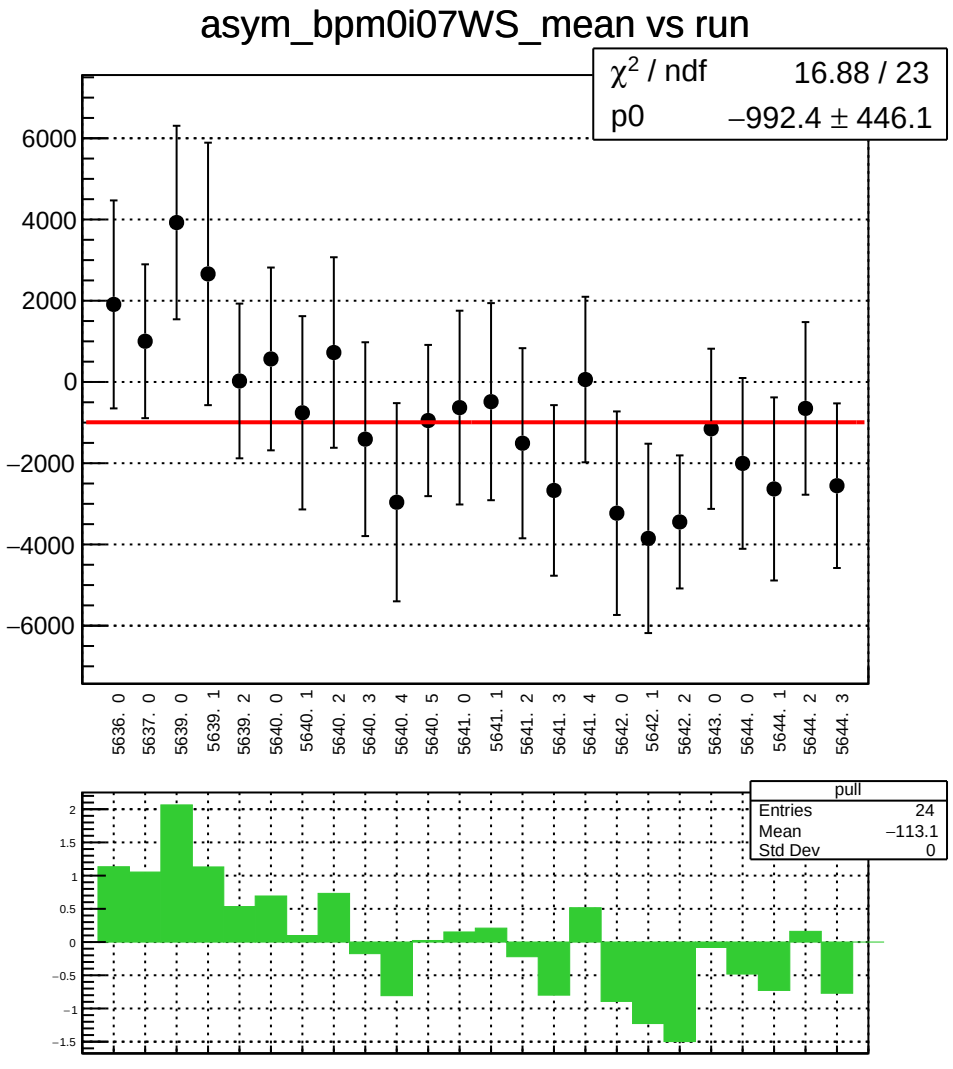

pull1D
Entries 24
Mean 0.5533
Std Dev 1.916
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

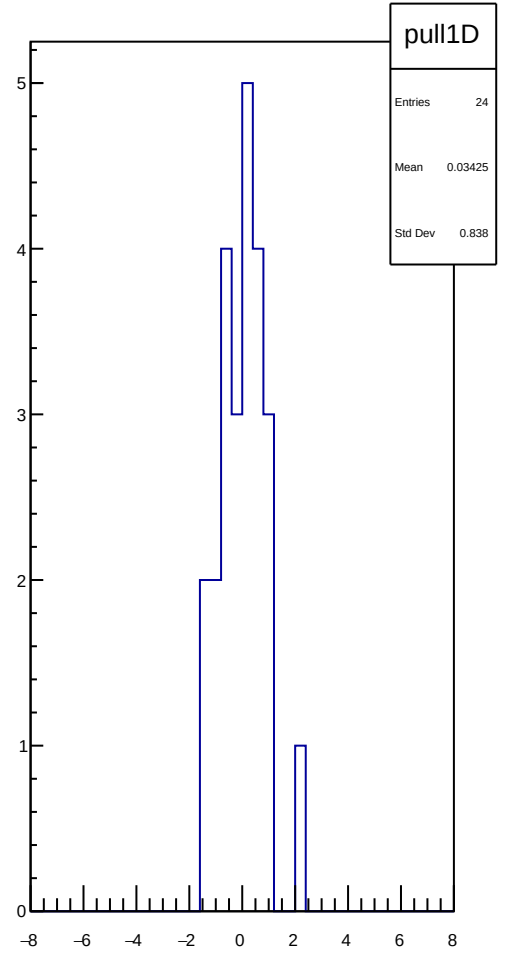

asym_bpm0i02aWS_rms vs run
χ² / ndf 3818 / 23
p0 175.5 ± 0.2537
280
260
240
220
200
180
160
140
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

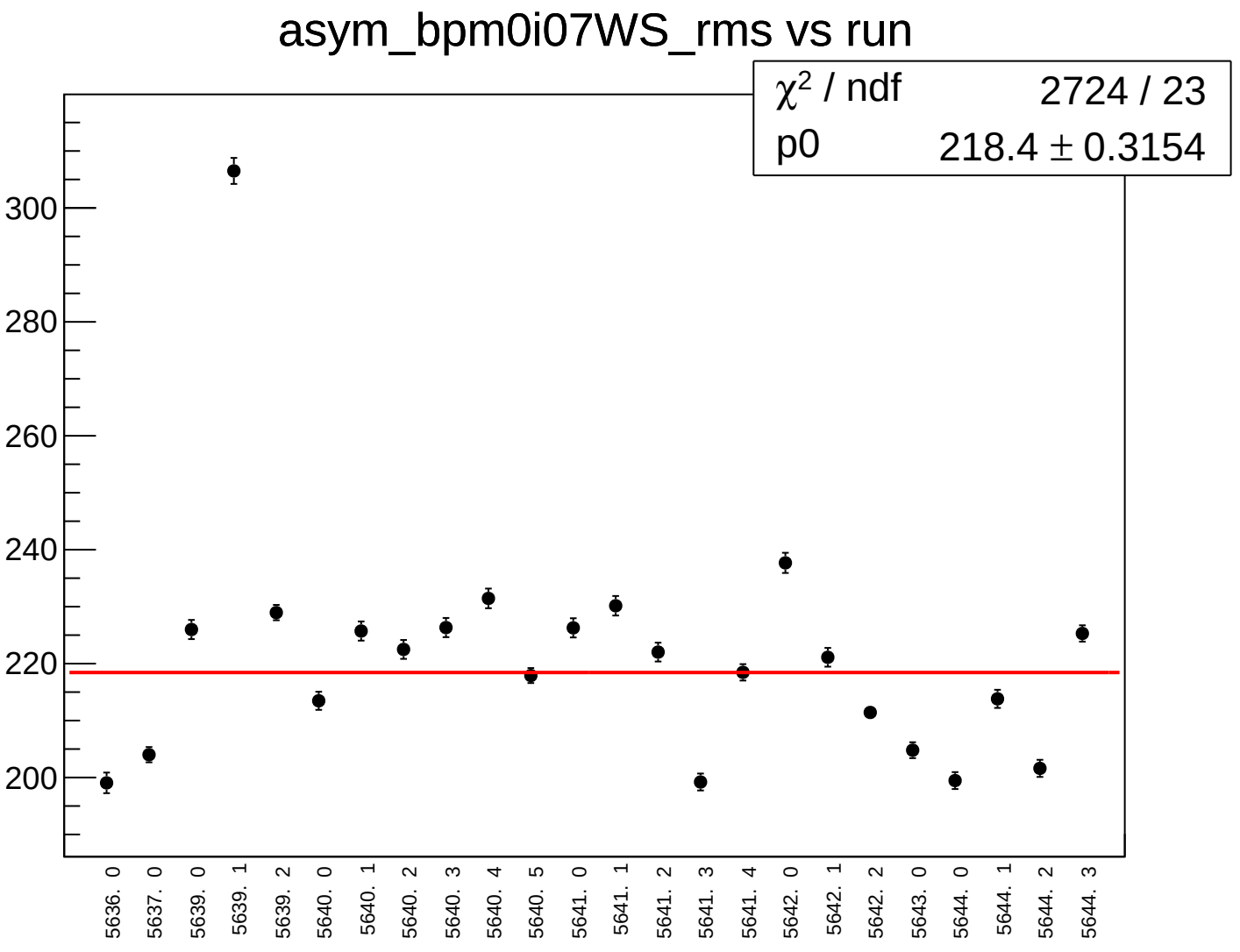

asym_bpm0i05WS_mean vs run
χ² / ndf 35.98 / 23
p0 −153.6 ± 401.1
8000
6000
4000
2000
0
−2000
−4000
−6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −100.3
Std Dev 0
2
1
0
−1
−2

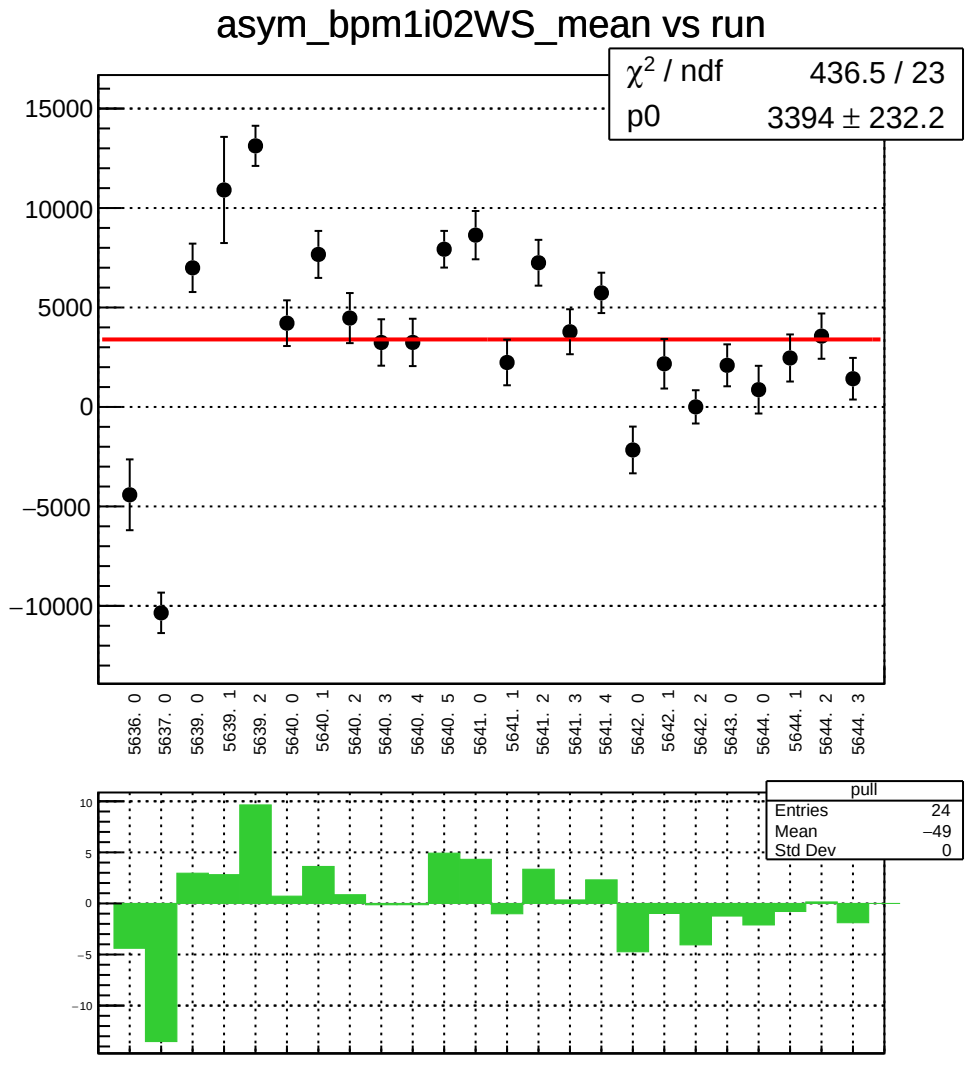

pull1D
Entries 24
Mean 0.05934
Std Dev 1.223
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

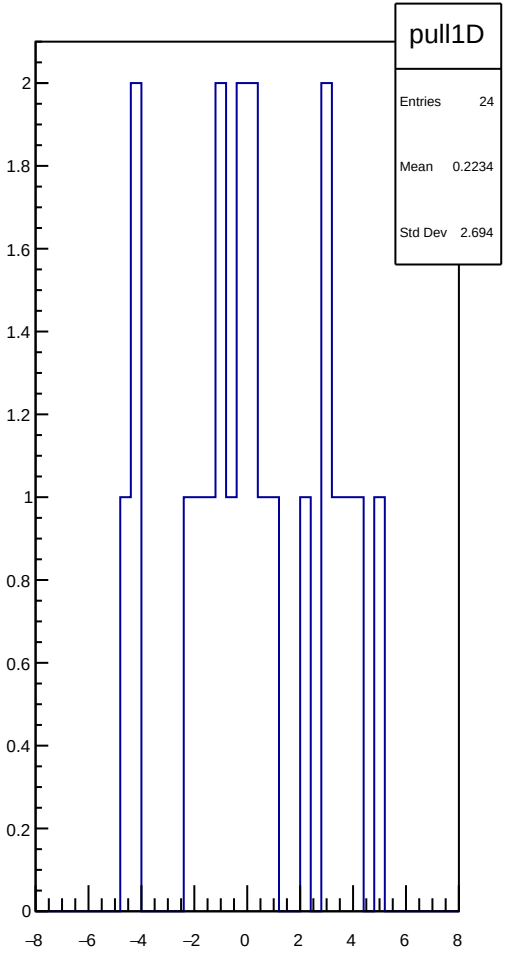

asym_bpm0i05WS_rms vs run
χ² / ndf 2994 / 23
p0 196.3 ± 0.2836
280
260
240
220
200
180
160
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

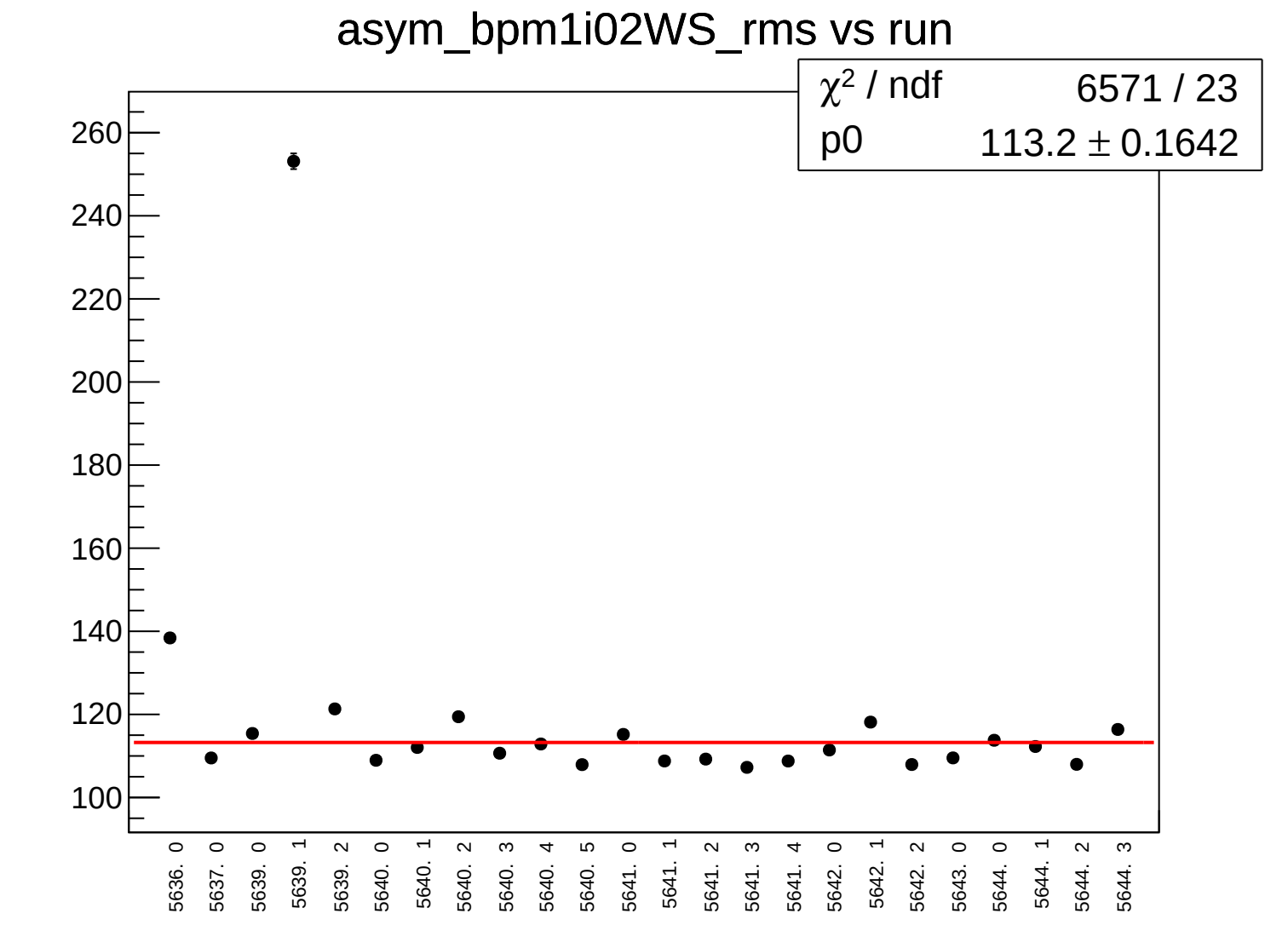

asym_bpm0i07WS_mean vs run
χ² / ndf 16.88 / 23
p0 −992.4 ± 446.1
6000
4000
2000
0
−2000
−4000
−6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −113.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

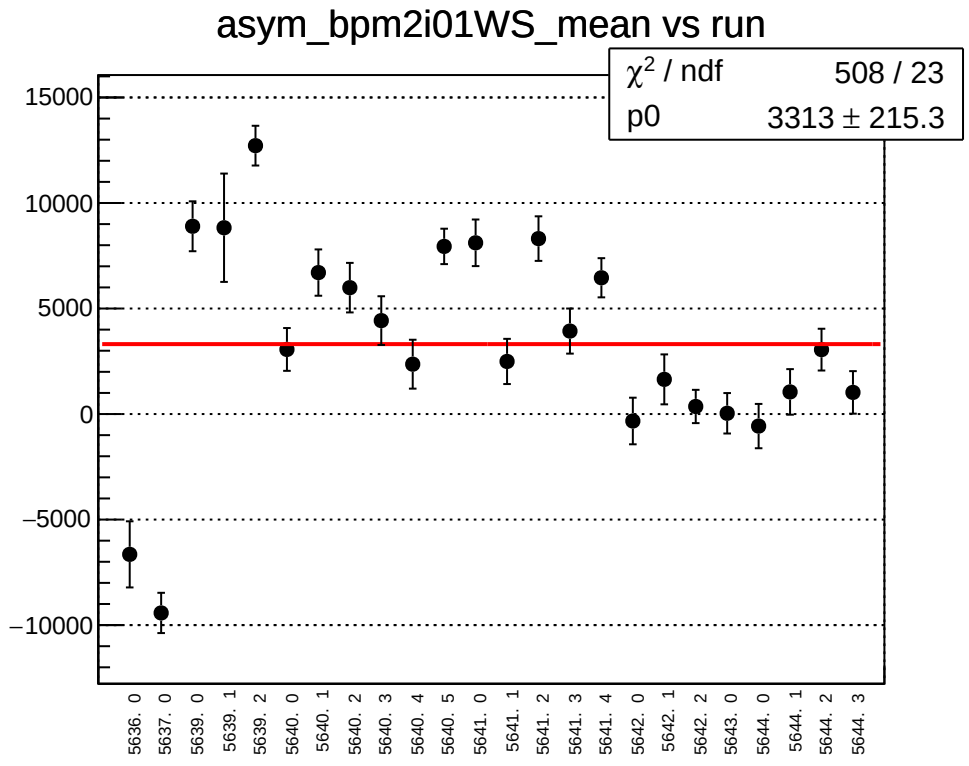

pull1D
Entries 24
Mean 0.03425
Std Dev 0.838
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

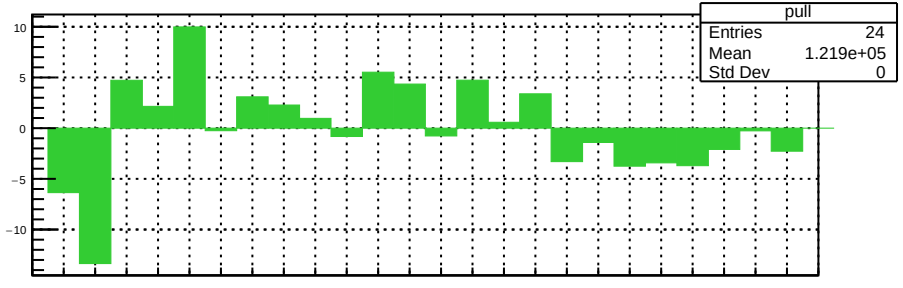

asym_bpm0i07WS_rms vs run
χ² / ndf 2724 / 23
p0 218.4 ± 0.3154
300
280
260
240
220
200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

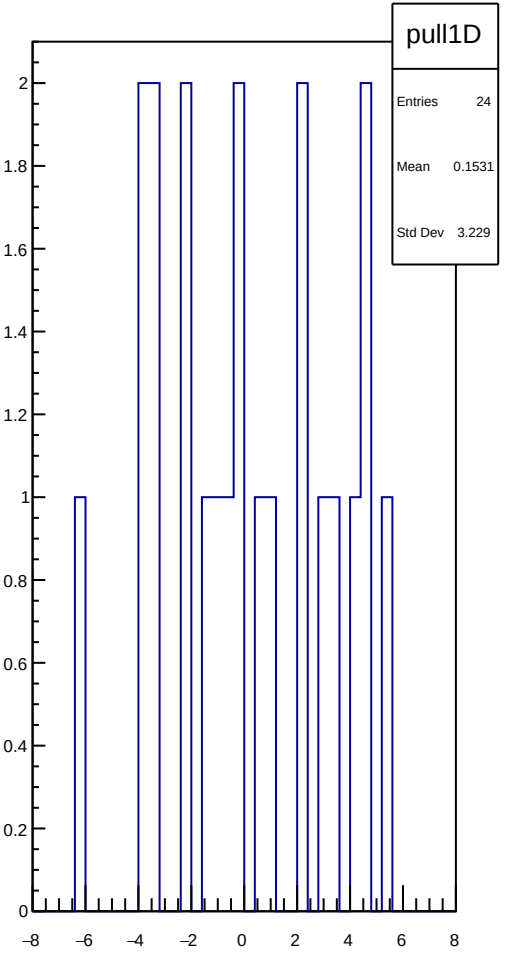

asym_bpm1i02WS_mean vs run
χ² / ndf 436.5 / 23
p0 3394 ± 232.2
15000
10000
5000
0
−5000
−10000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −49
Std Dev 0
10
5
0
−5
−10

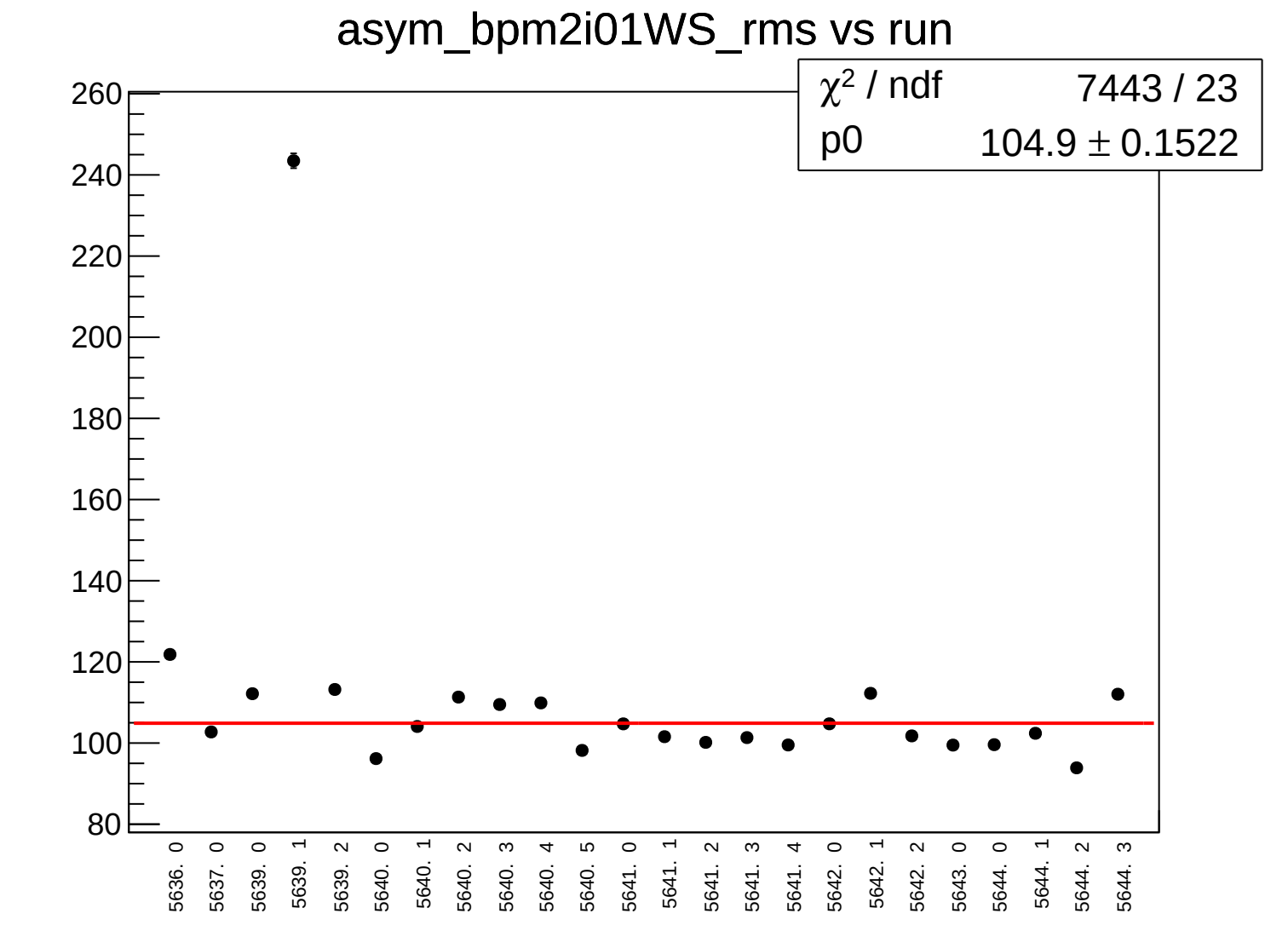

pull1D
Entries 24
Mean 0.2234
Std Dev 2.694
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

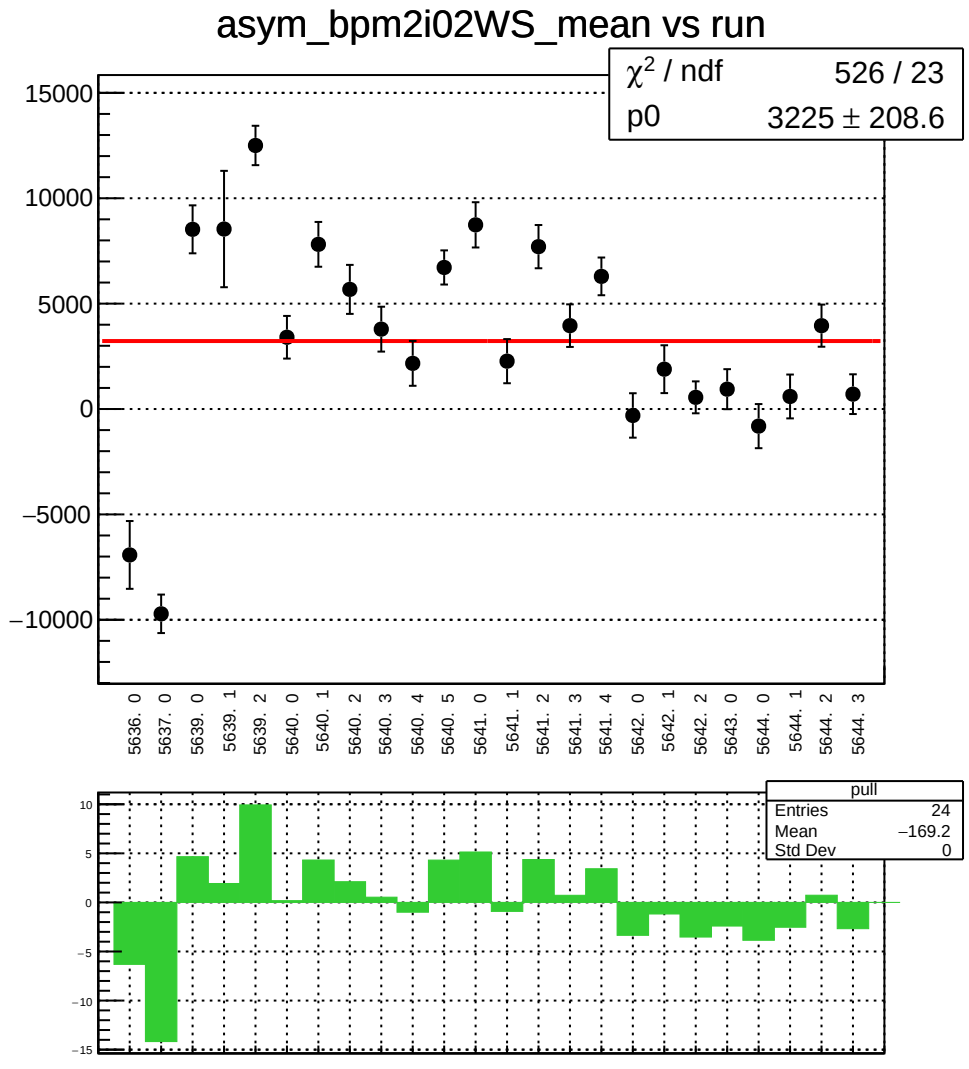

asym_bpm1i02WS_rms vs run
χ² / ndf 6571 / 23
p0 113.2 ± 0.1642
260
240
220
200
180
160
140
120
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

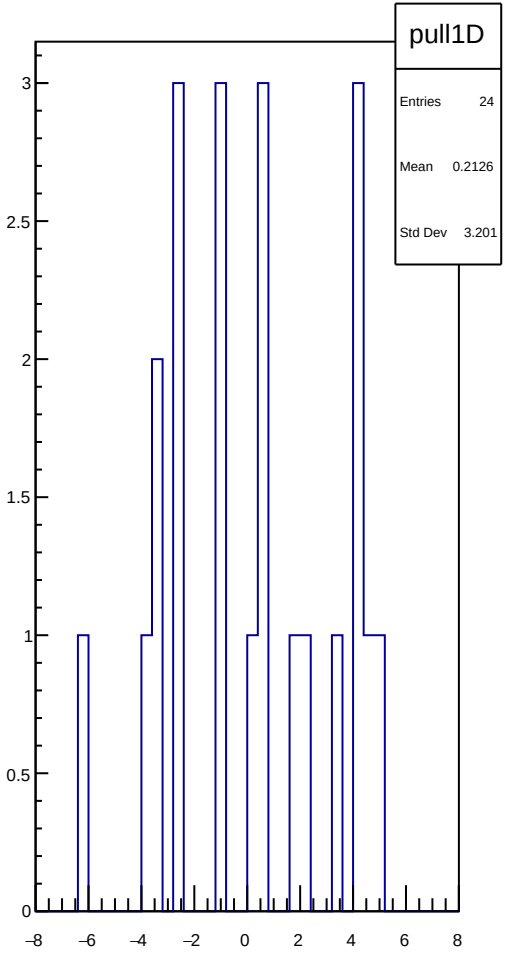

asym_bpm2i01WS_mean vs run
χ² / ndf 508 / 23
p0 3313 ± 215.3
15000
10000
5000
0
−5000
−10000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

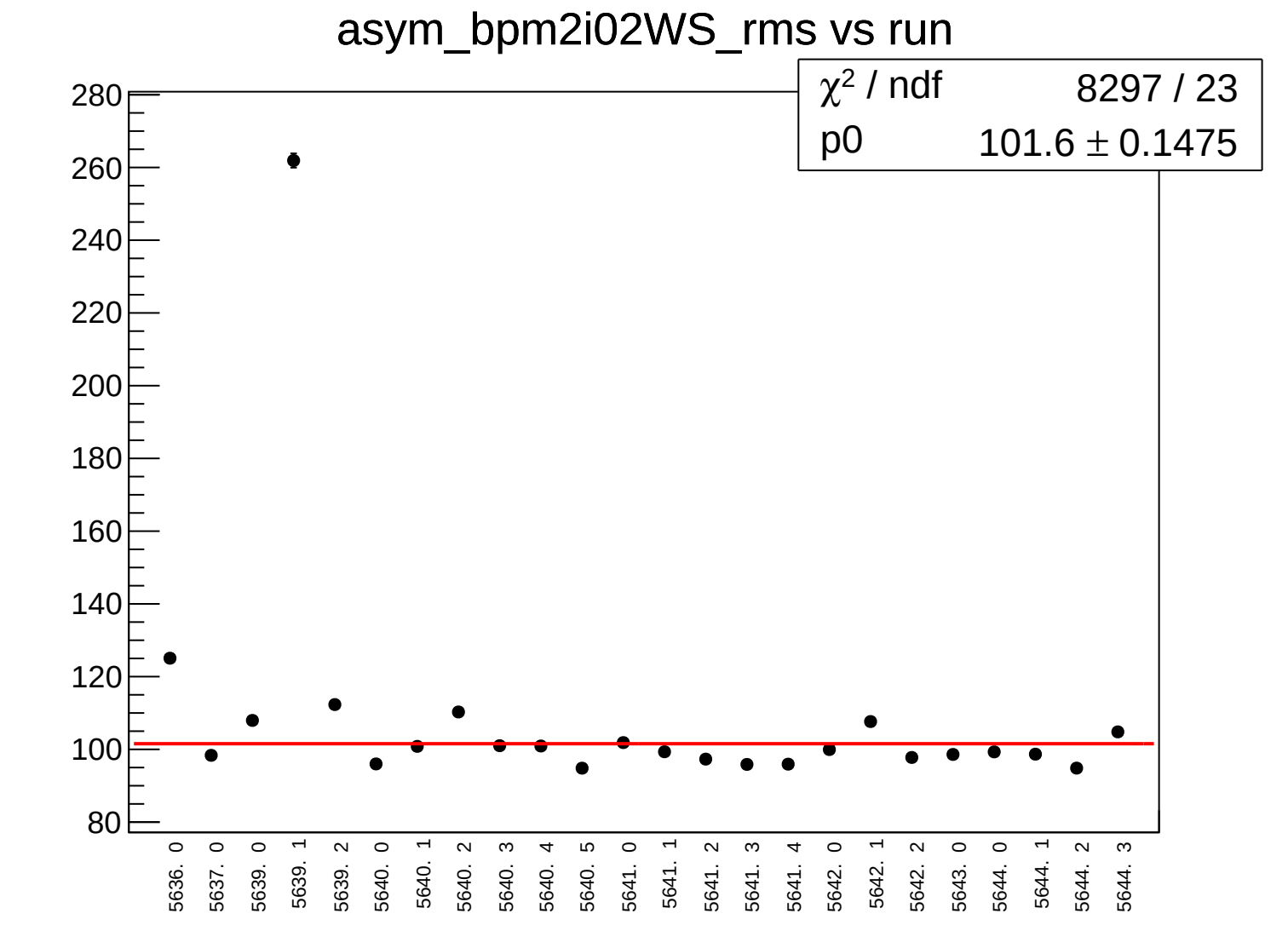

pull
Entries 24
Mean 1.219e+05
Std Dev 0
10
5
0
−5
−10

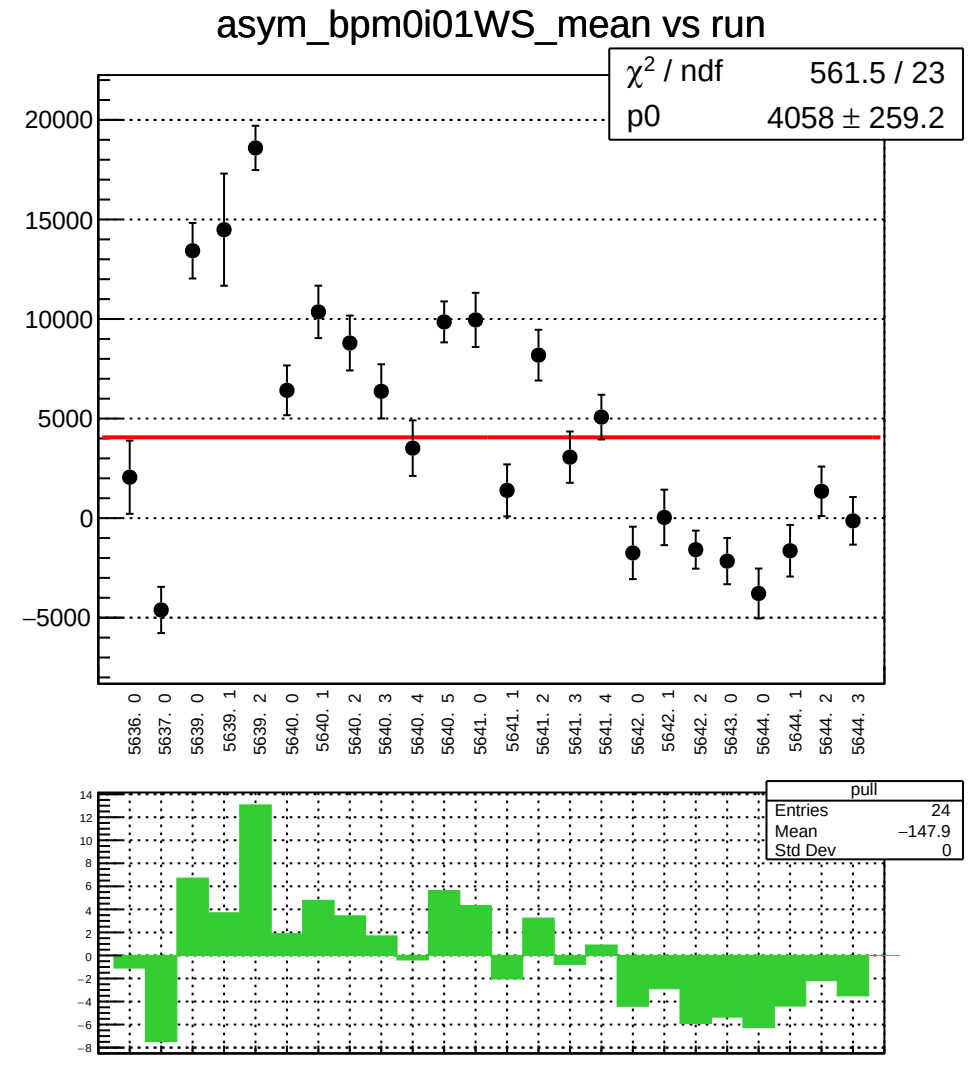

pull1D
Entries 24
Mean 0.1531
Std Dev 3.229
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

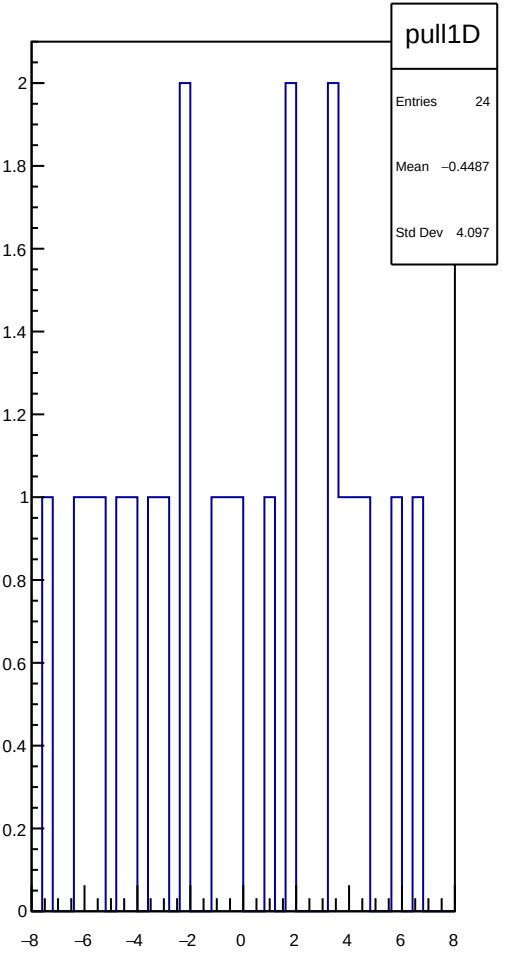

asym_bpm2i01WS_rms vs run
χ² / ndf 7443 / 23
p0 104.9 ± 0.1522
260
240
220
200
180
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

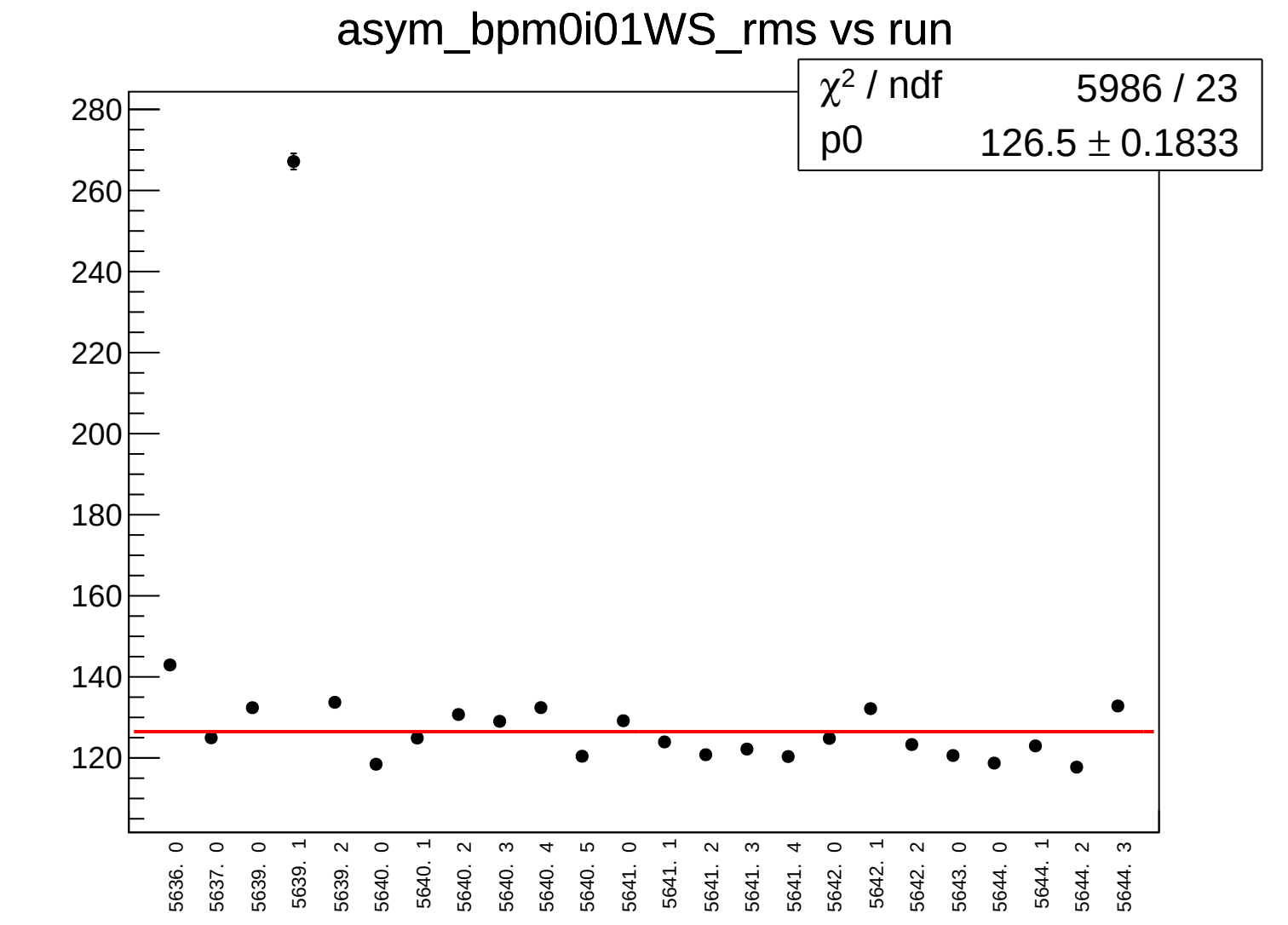

asym_bpm2i02WS_mean vs run
χ² / ndf 526 / 23
p0 3225 ± 208.6
15000
10000
5000
0
−5000
−10000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −169.2
Std Dev 0
10
5
0
−5
−10
−15

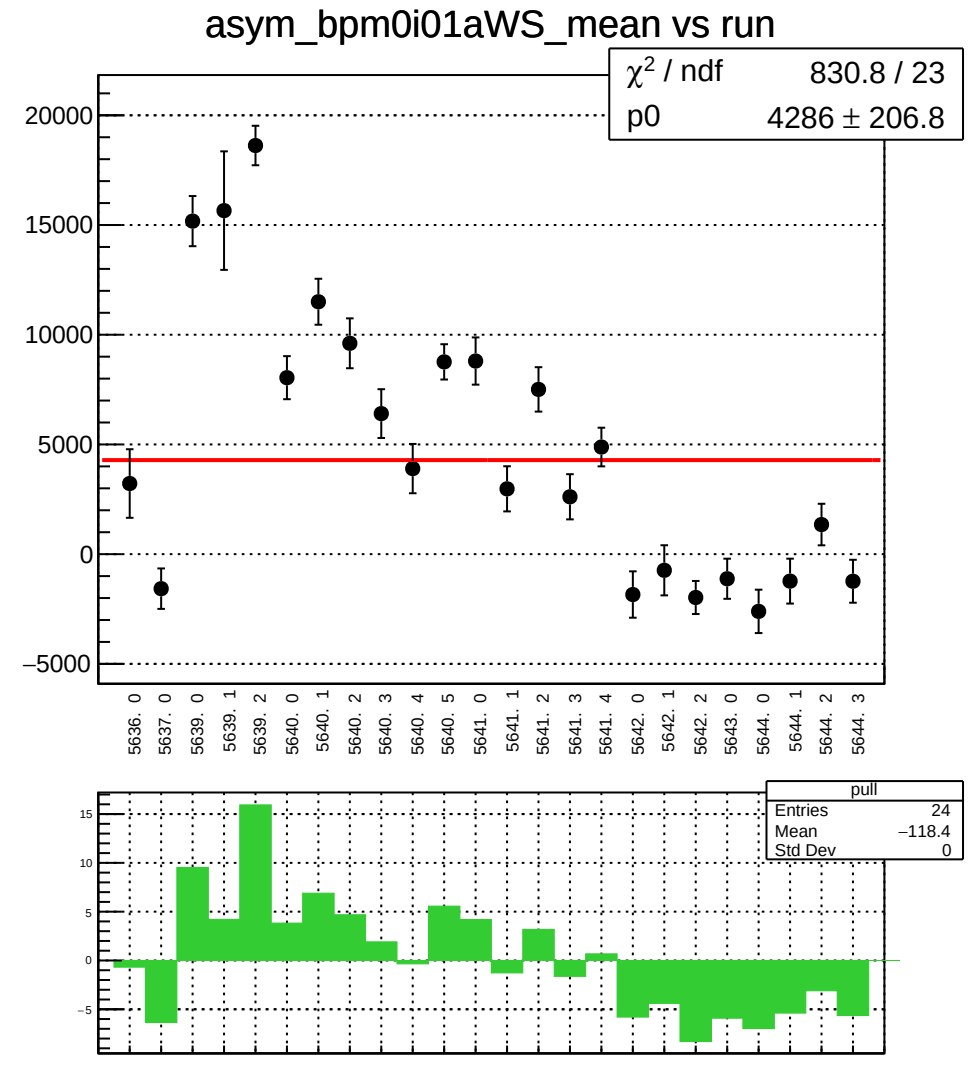

pull1D
Entries 24
Mean 0.2126
Std Dev 3.201
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

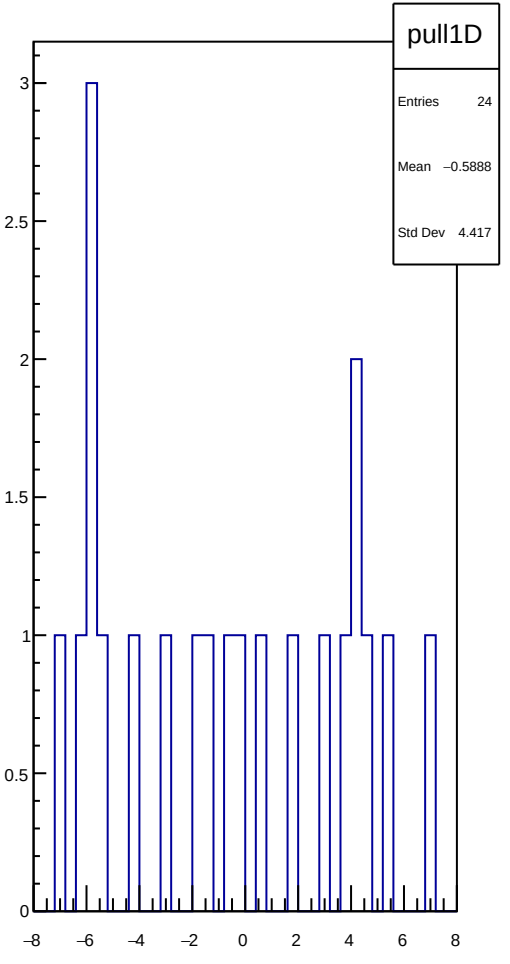

asym_bpm2i02WS_rms vs run
χ² / ndf 8297 / 23
p0 101.6 ± 0.1475
280
260
240
220
200
180
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

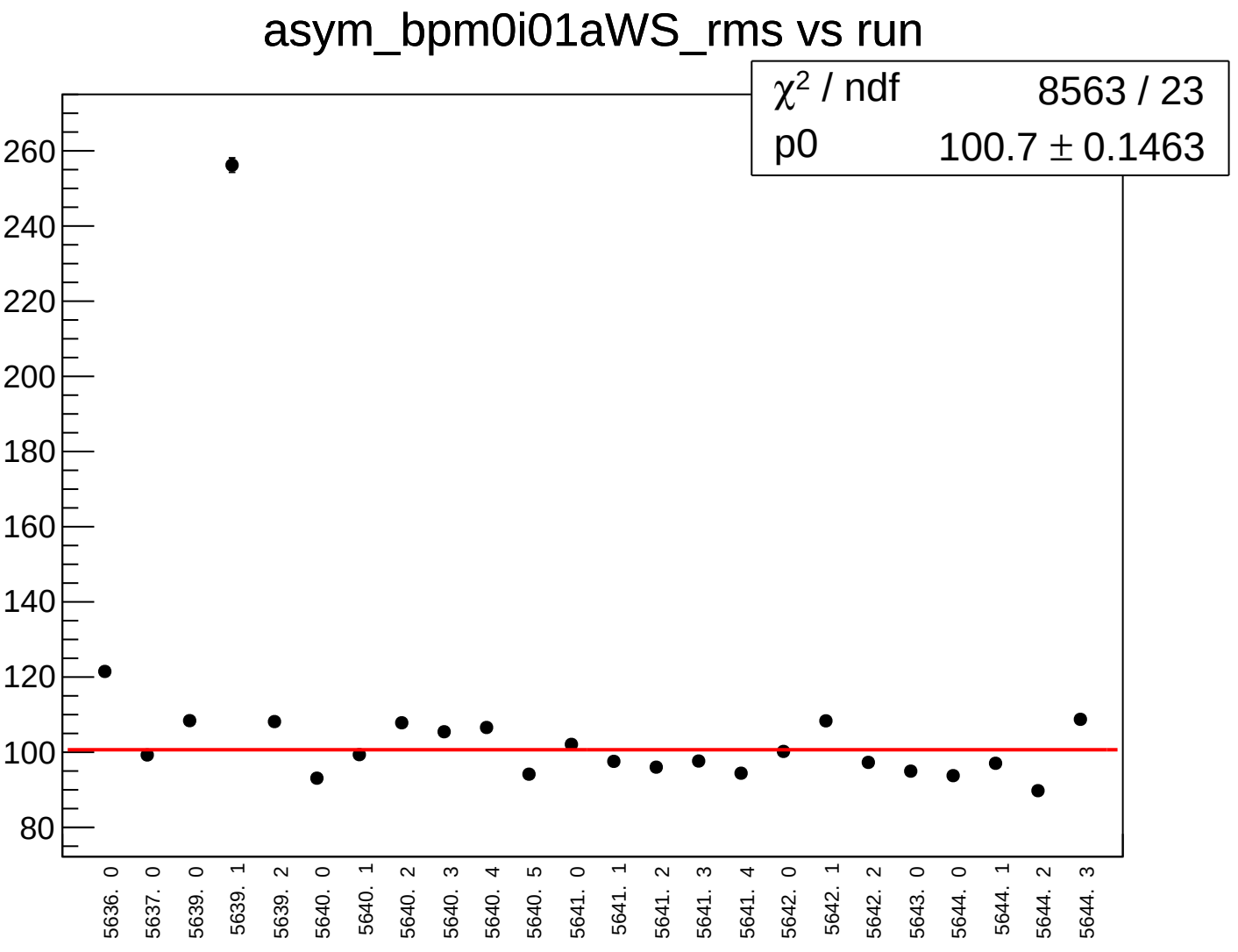

asym_bpm0i01WS_mean vs run
χ² / ndf 561.5 / 23
p0 4058 ± 259.2
20000
15000
10000
5000
0
−5000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −147.9
Std Dev 0
14
12
10
8
6
4
2
0
−2
−4
−6
−8

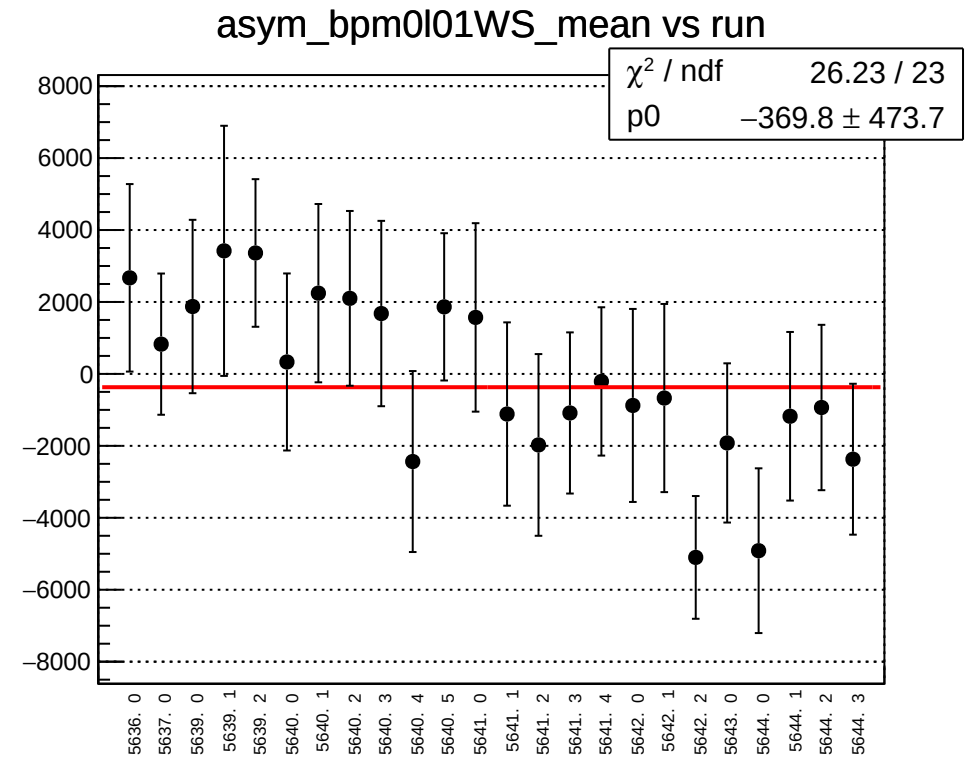

pull1D
Entries 24
Mean −0.4487
Std Dev 4.097
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

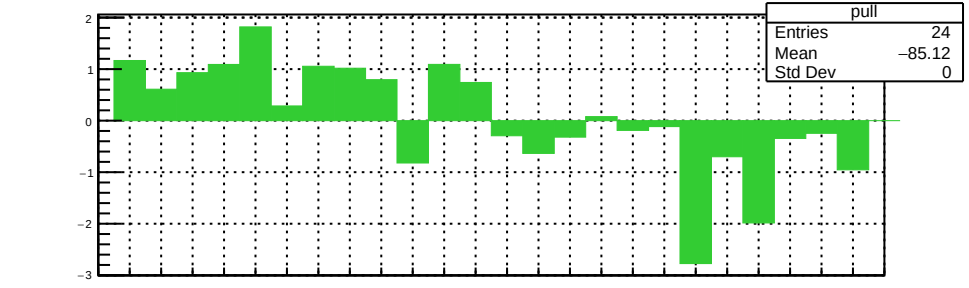

asym_bpm0i01WS_rms vs run
χ² / ndf 5986 / 23
p0 126.5 ± 0.1833
280
260
240
220
200
180
160
140
120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

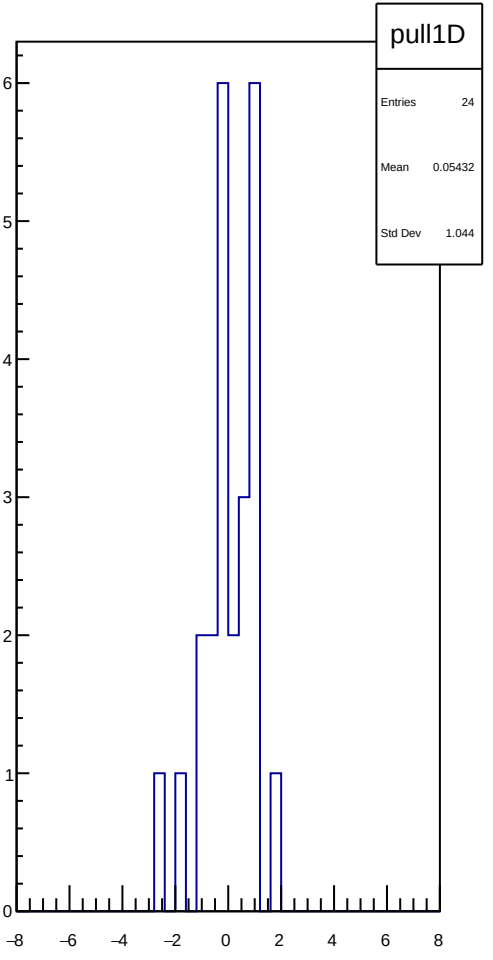

asym_bpm0i01aWS_mean vs run
χ² / ndf 830.8 / 23
p0 4286 ± 206.8
20000
15000
10000
5000
0
−5000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −118.4
Std Dev 0
15
10
5
0
−5

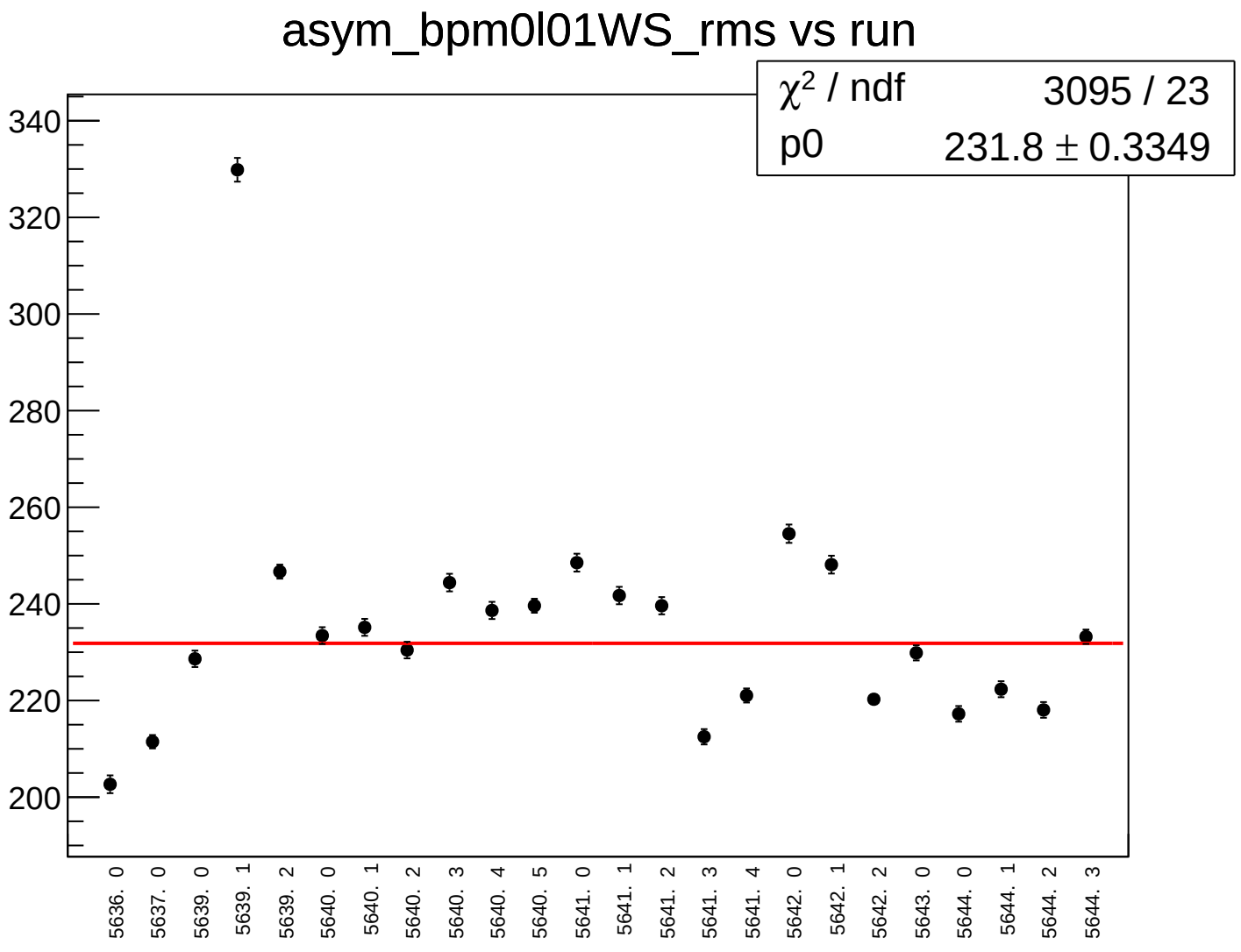

pull1D
Entries 24
Mean −0.5888
Std Dev 4.417
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

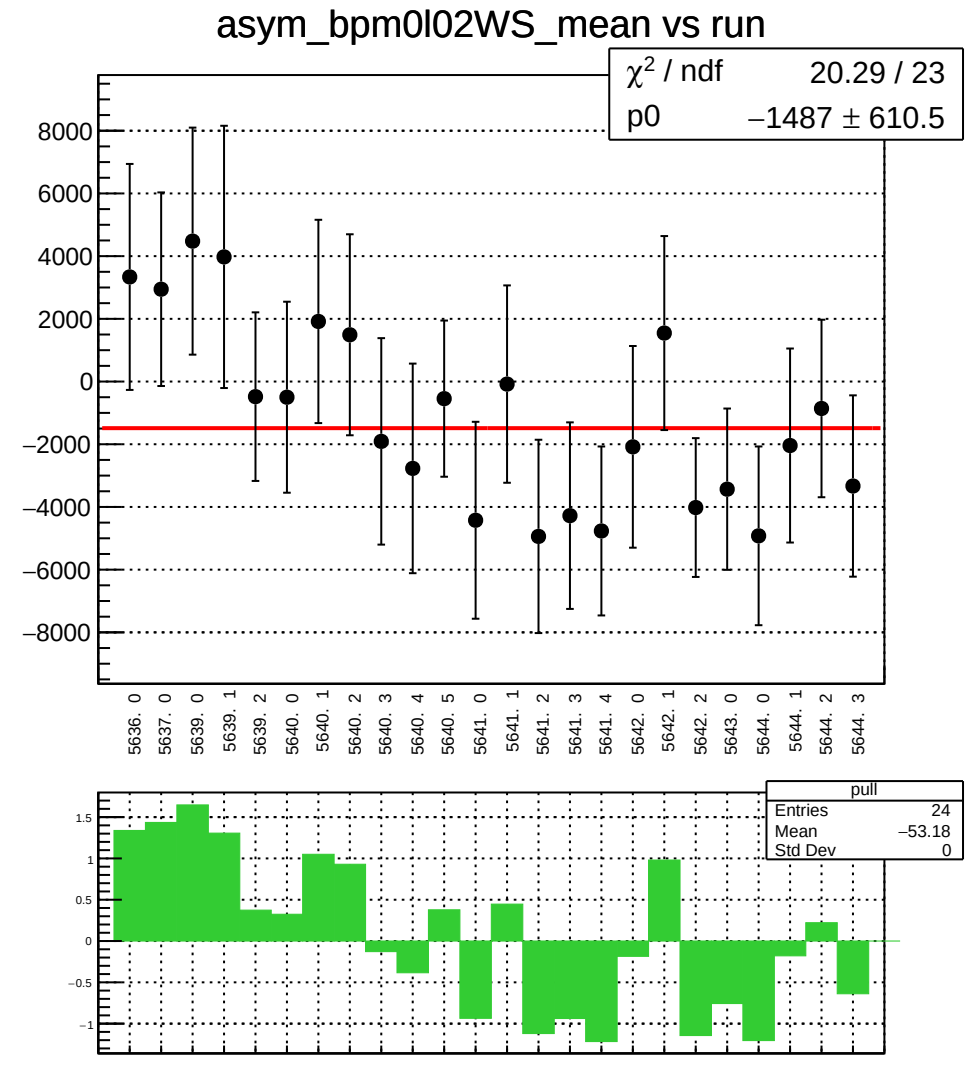

asym_bpm0i01aWS_rms vs run
χ² / ndf 8563 / 23
p0 100.7 ± 0.1463
260
240
220
200
180
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

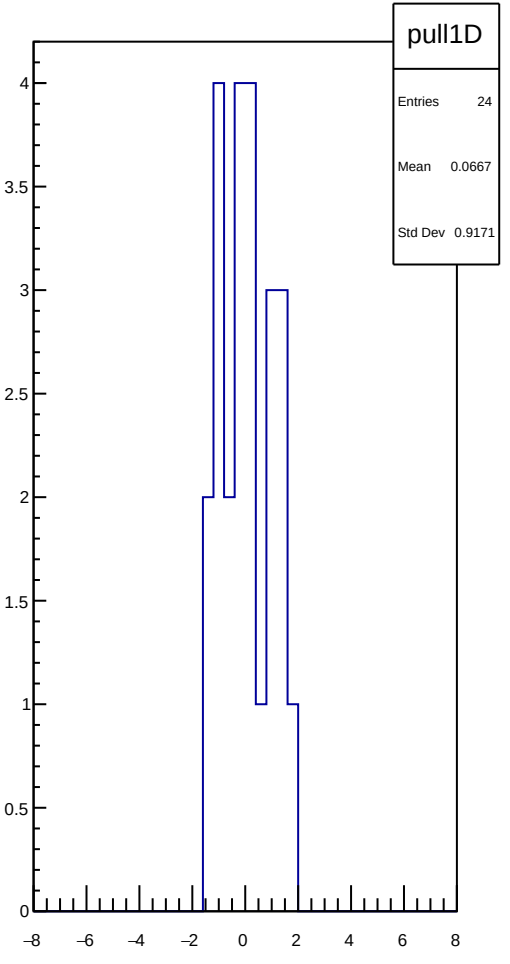

asym_bpm0l01WS_mean vs run
χ² / ndf 26.23 / 23
p0 −369.8 ± 473.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

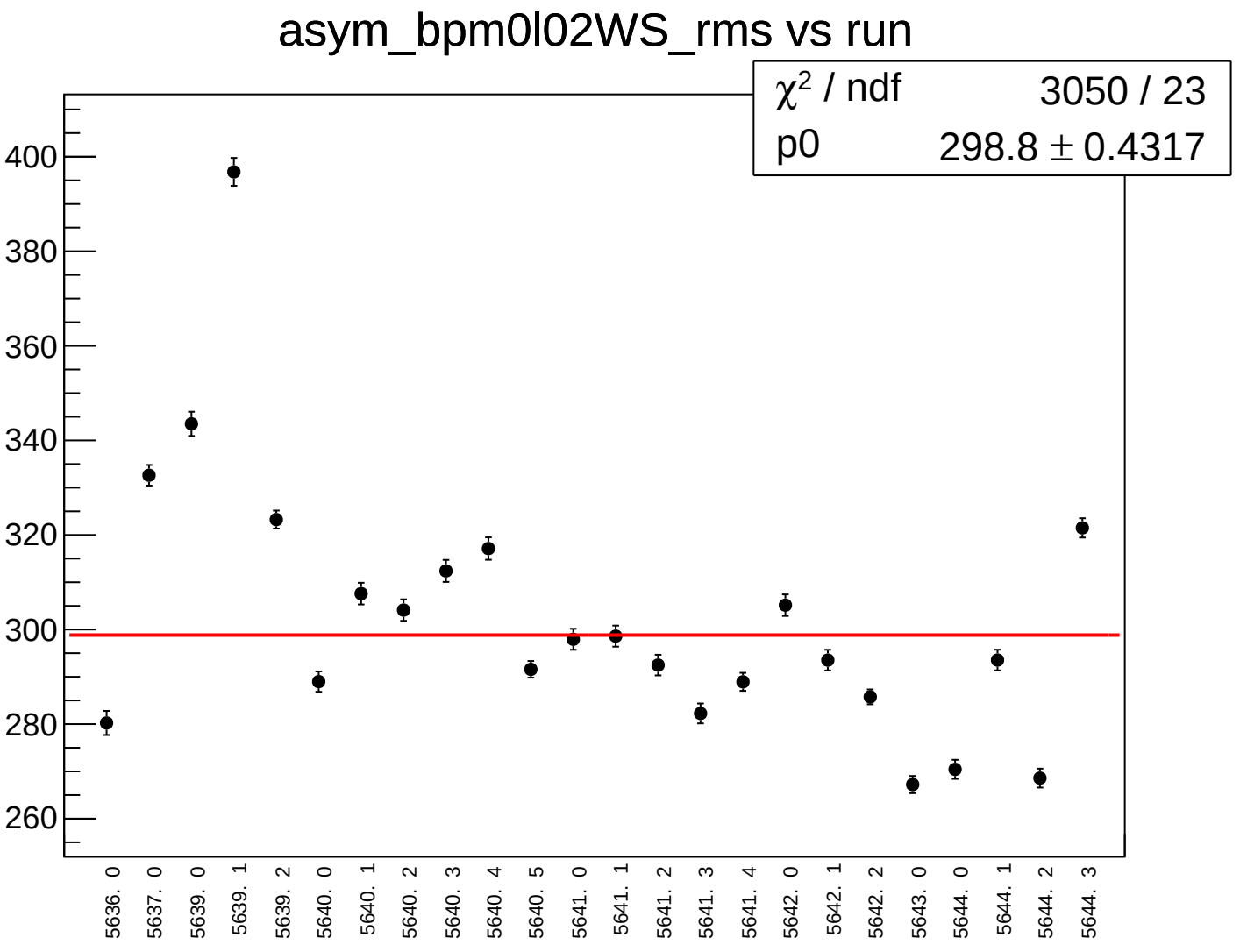

pull
Entries 24
Mean −85.12
Std Dev 0
2
1
0
−1
−2
−3

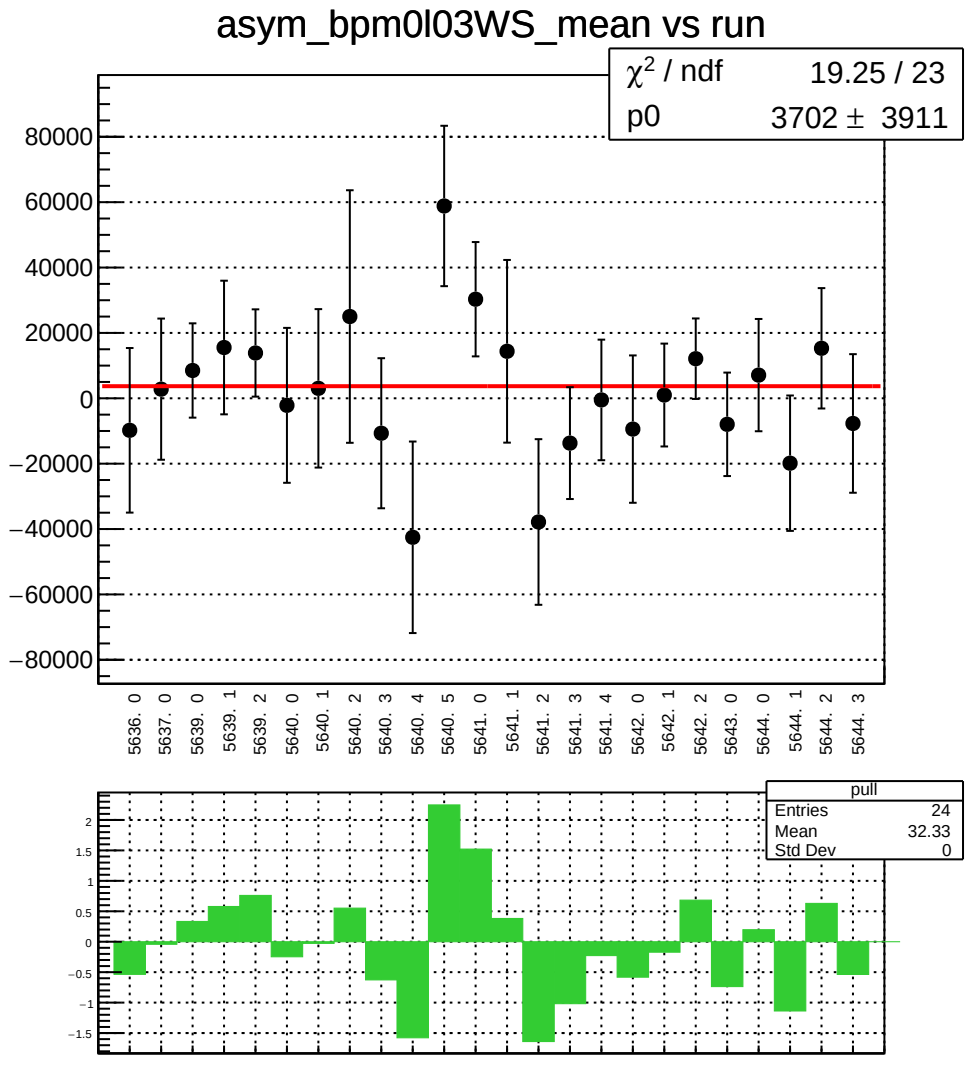

pull1D
Entries 24
Mean 0.05432
Std Dev 1.044
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

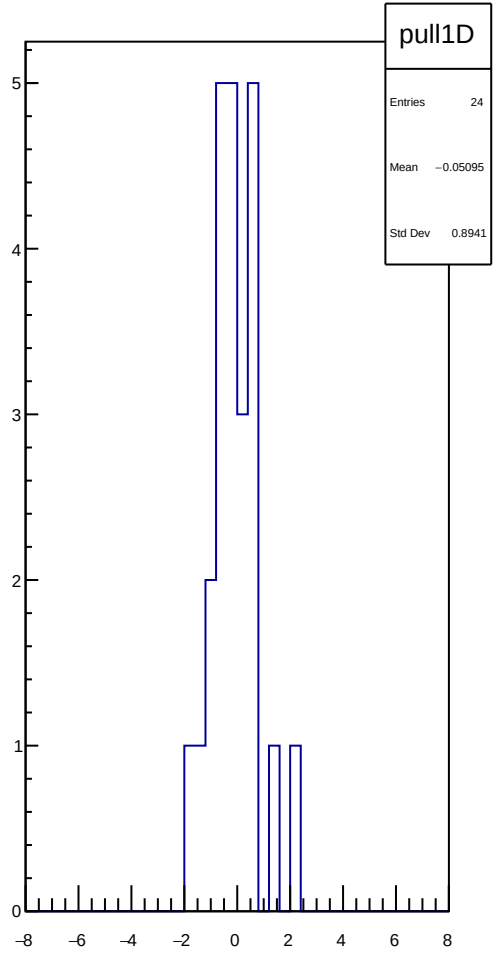

asym_bpm0l01WS_rms vs run
χ² / ndf 3095 / 23
p0 231.8 ± 0.3349
340
320
300
280
260
240
220
200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

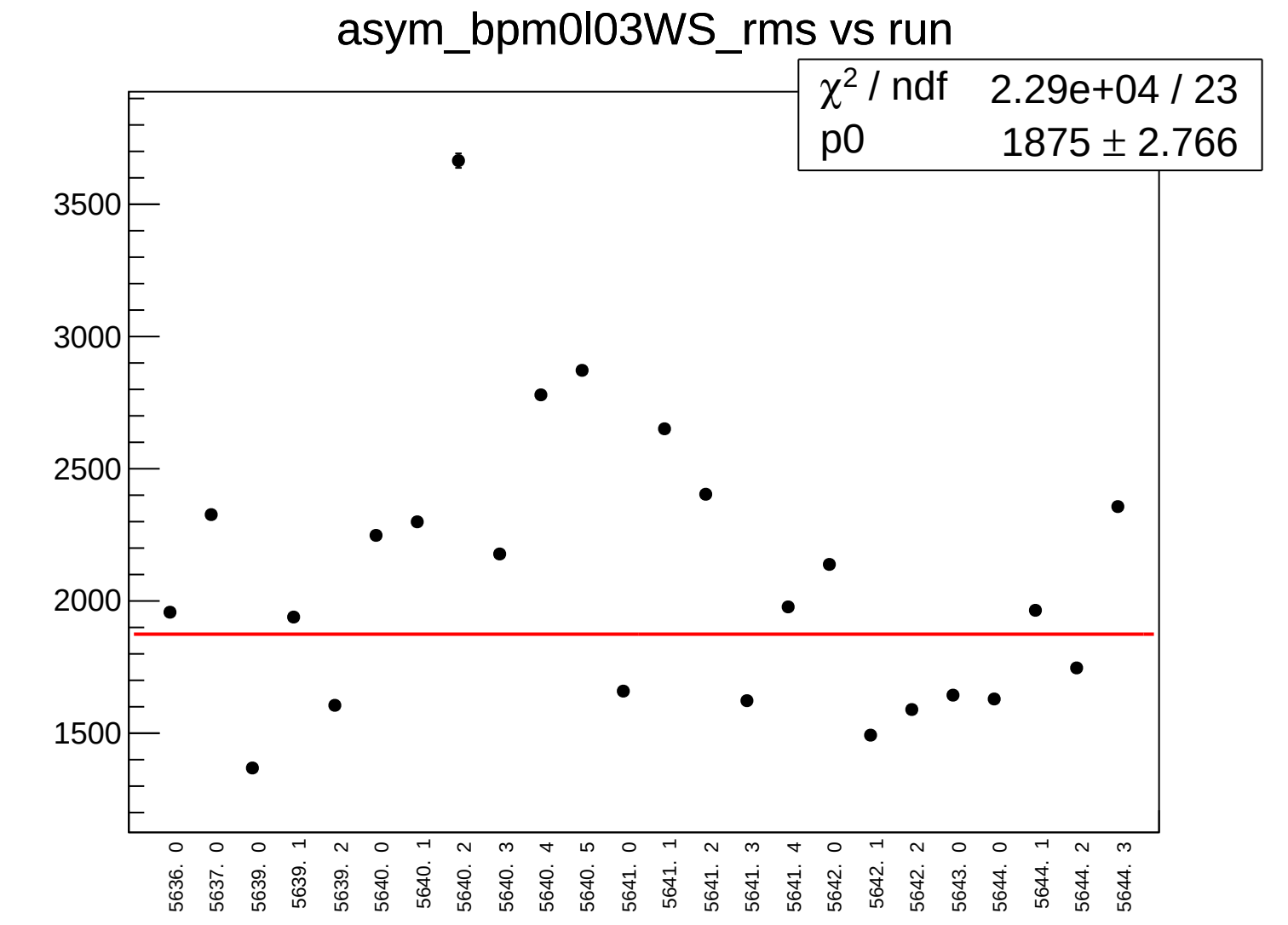

asym_bpm0l02WS_mean vs run
χ² / ndf 20.29 / 23
p0 −1487 ± 610.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −53.18
Std Dev 0
1.5
1
0.5
0
−0.5
−1

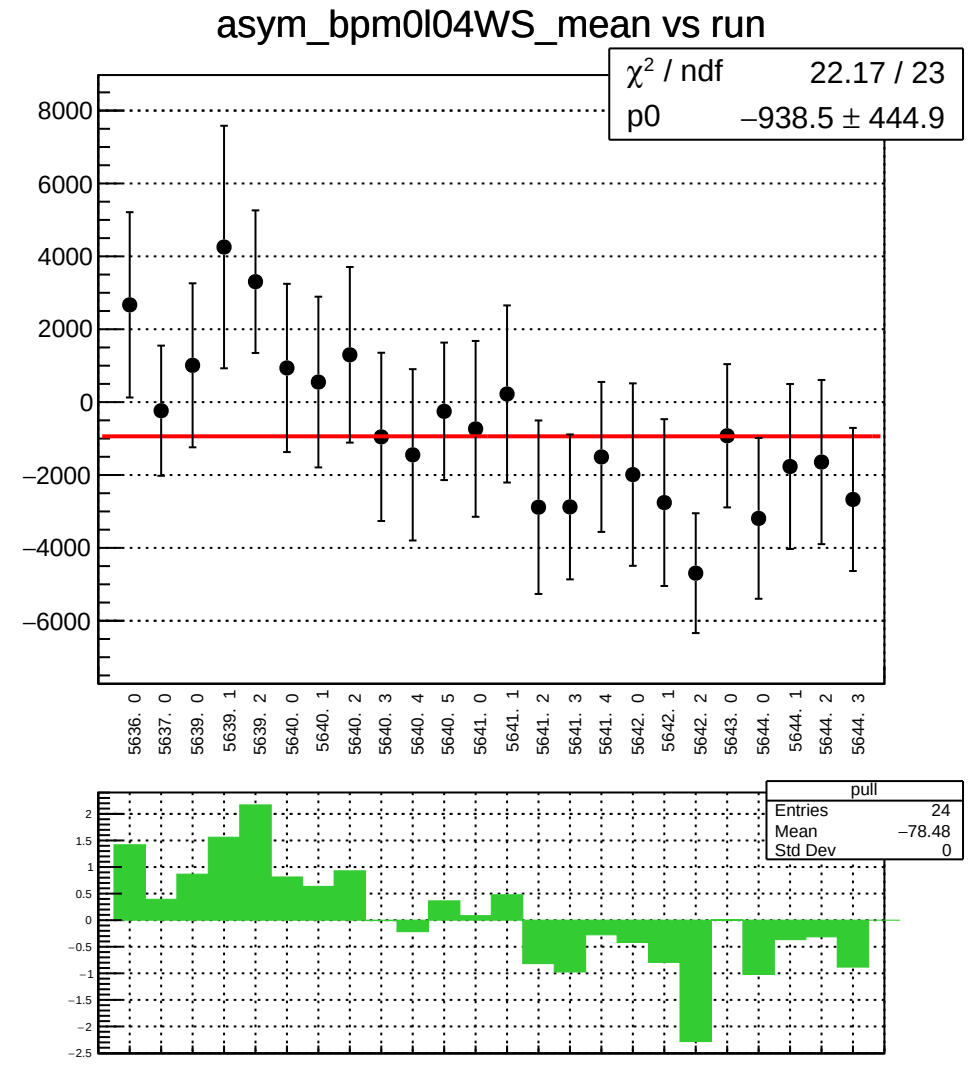

pull1D
Entries 24
Mean 0.0667
Std Dev 0.9171
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

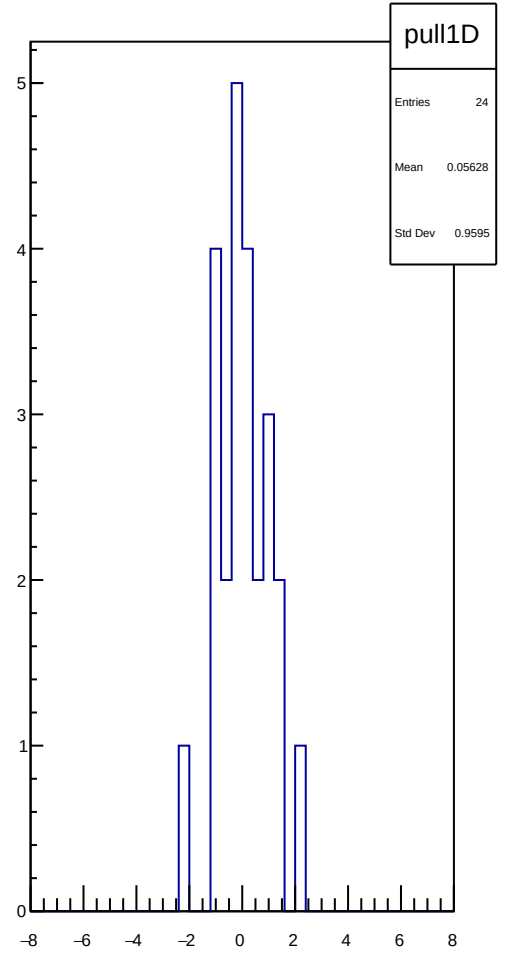

asym_bpm0l02WS_rms vs run
χ² / ndf 3050 / 23
p0 298.8 ± 0.4317
400
380
360
340
320
300
280
260
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

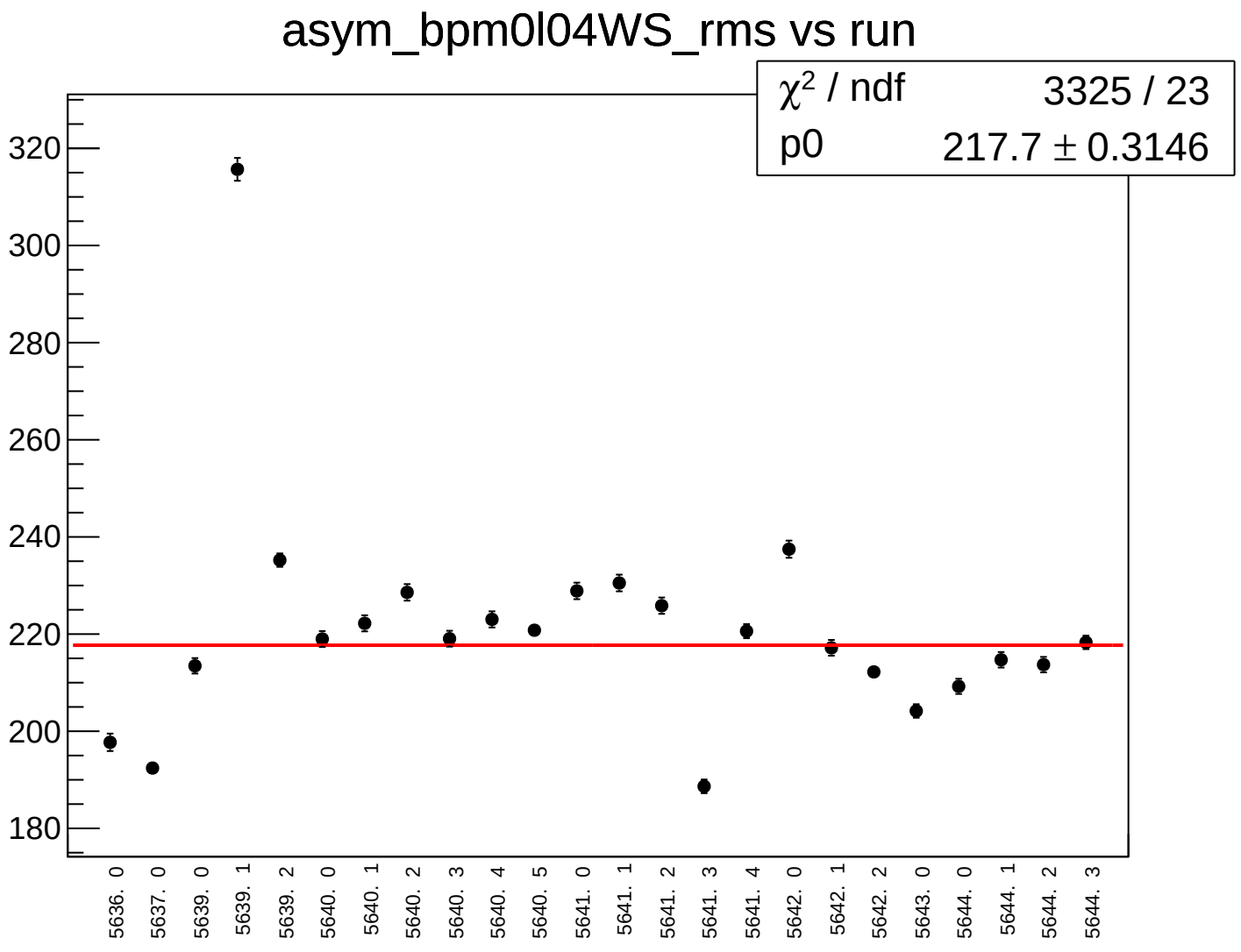

asym_bpm0l03WS_mean vs run
χ² / ndf 19.25 / 23
p0 3702 ± 3911
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 32.33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

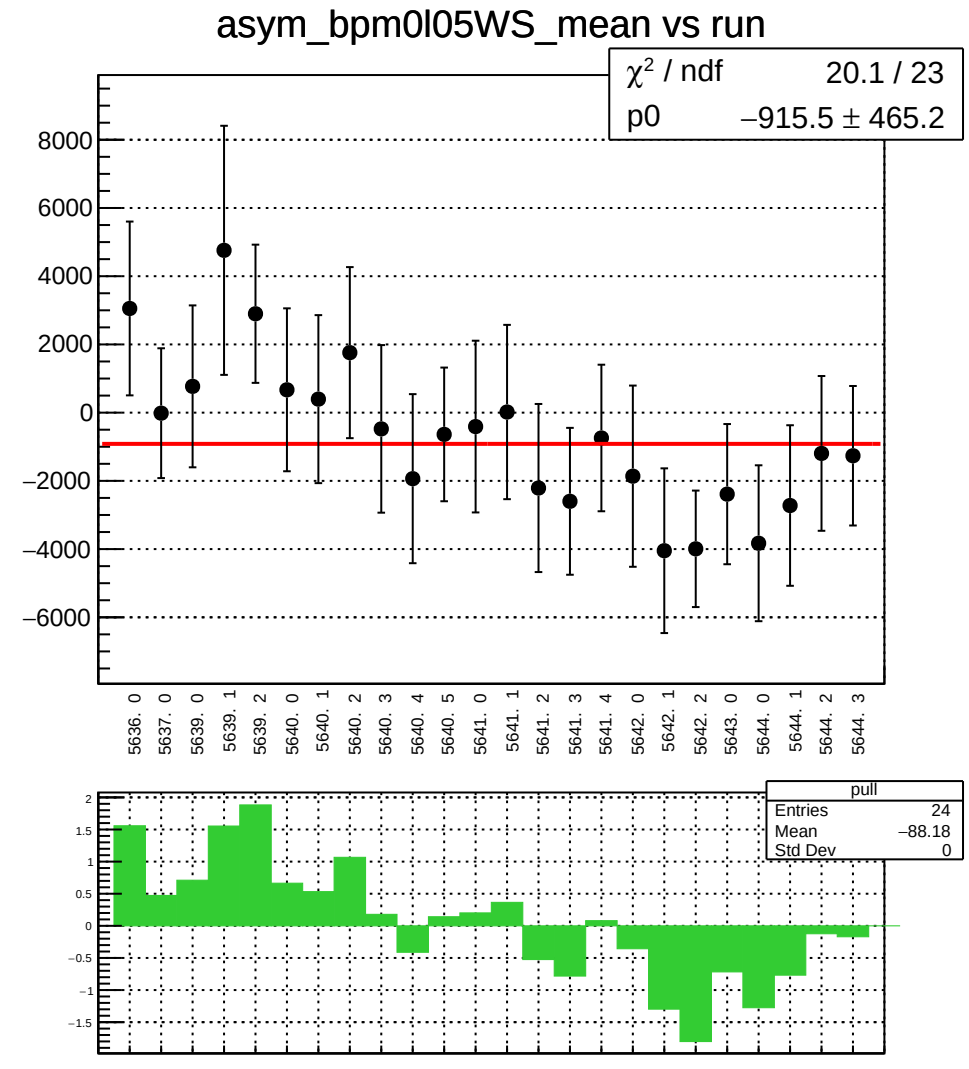

pull1D
Entries 24
Mean −0.05095
Std Dev 0.8941
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

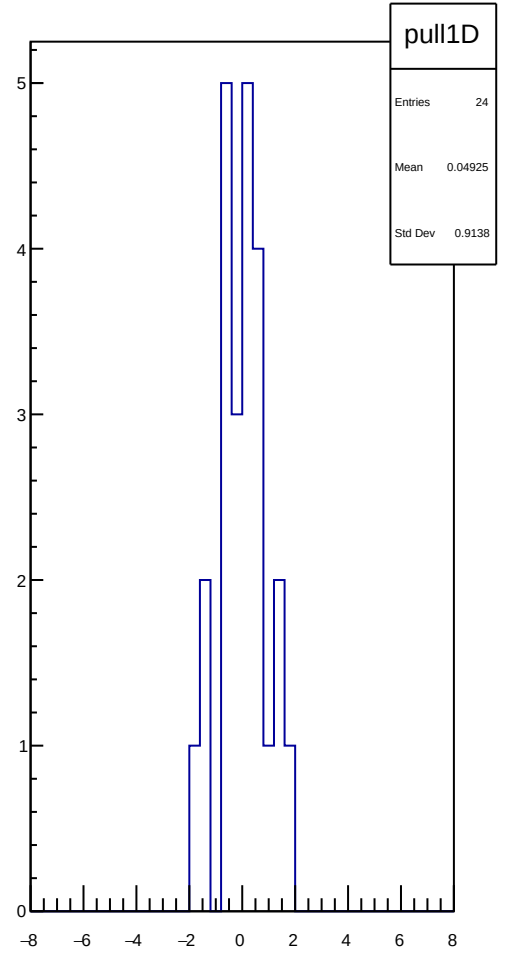

asym_bpm0l03WS_rms vs run
χ² / ndf 2.29e+04 / 23
p0 1875 ± 2.766
3500
3000
2500
2000
1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

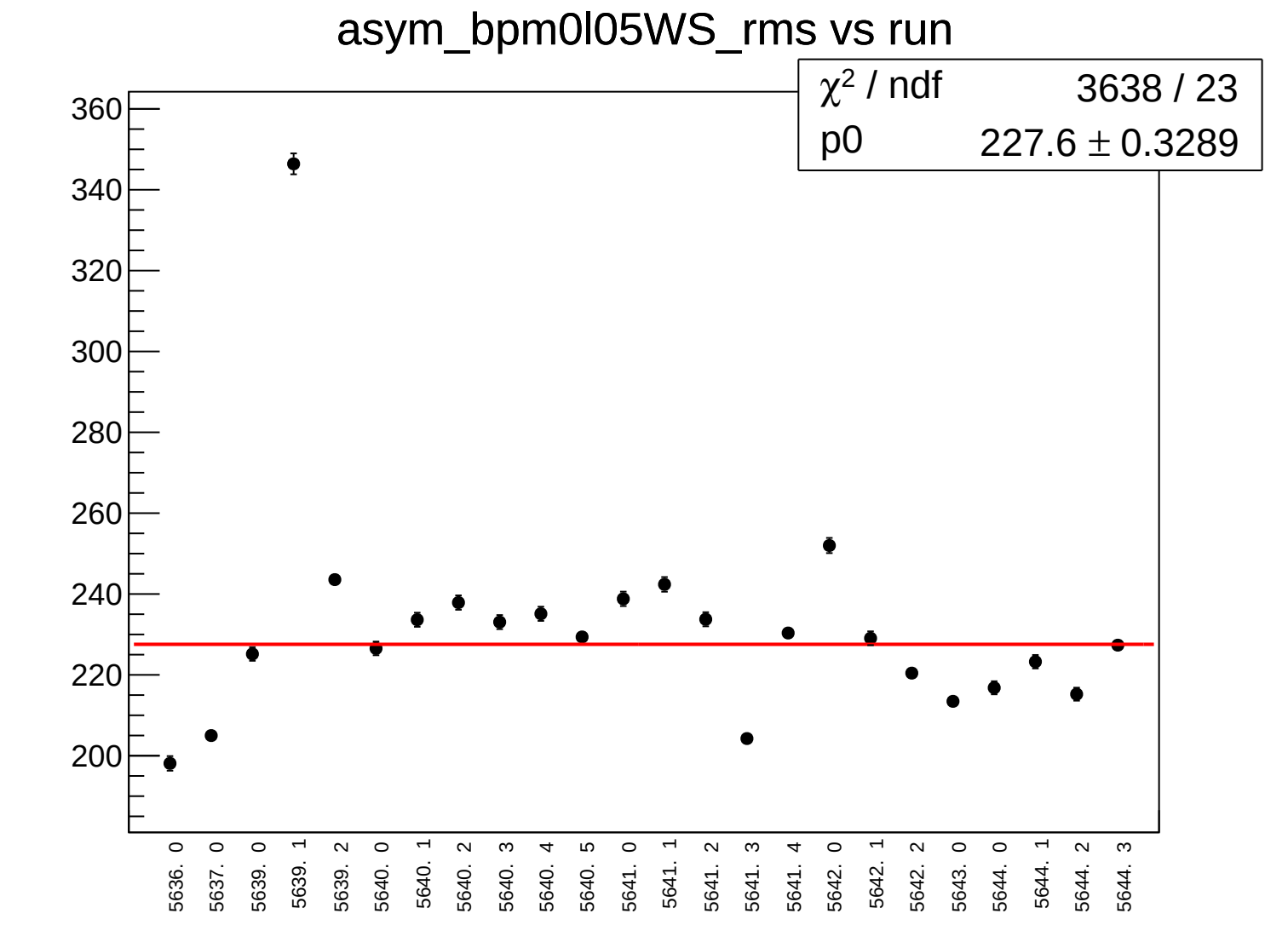

asym_bpm0l04WS_mean vs run
χ² / ndf 22.17 / 23
p0 −938.5 ± 444.9
8000
6000
4000
2000
0
−2000
−4000
−6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −78.48
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

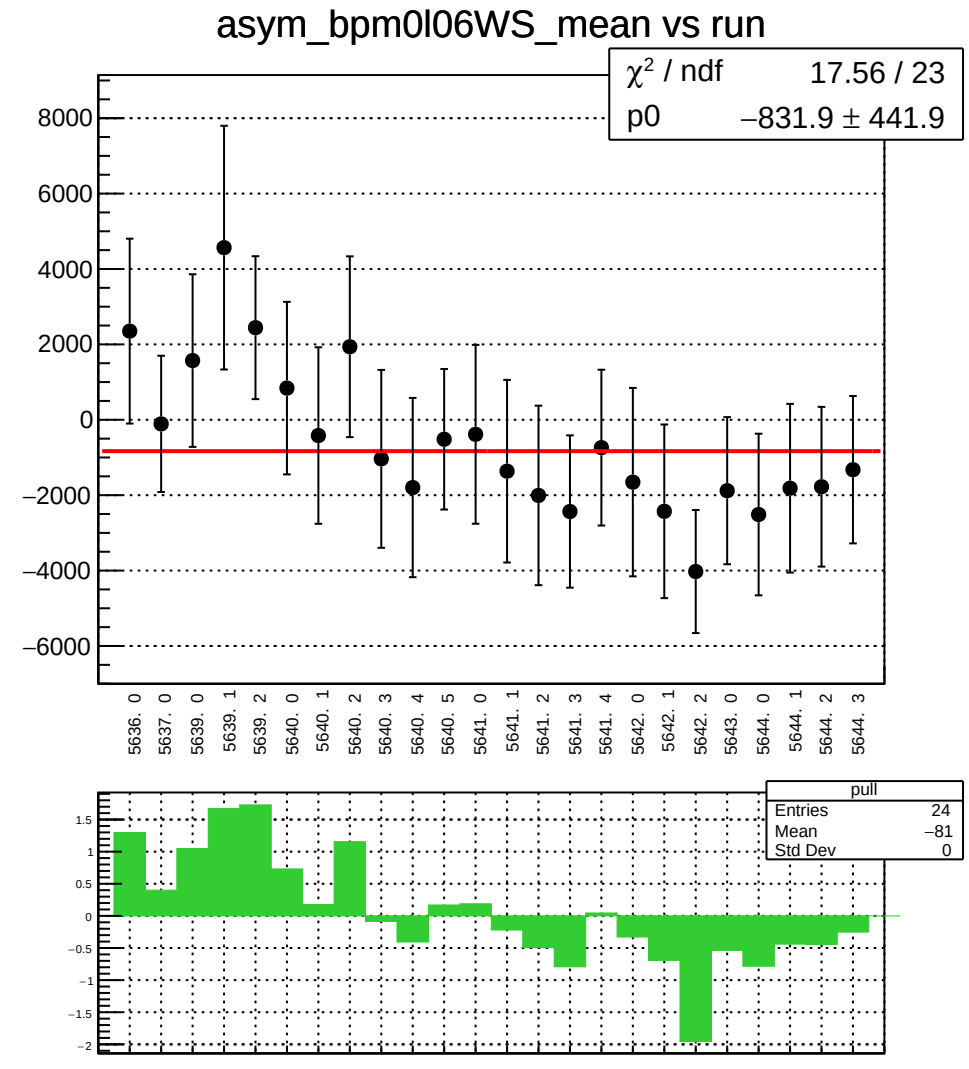

pull1D
Entries 24
Mean 0.05628
Std Dev 0.9595
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

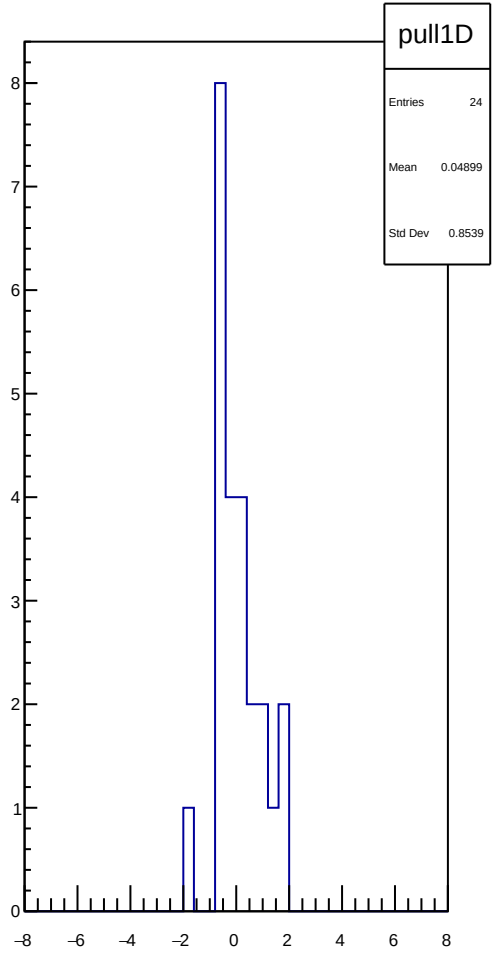

asym_bpm0l04WS_rms vs run
χ² / ndf 3325 / 23
p0 217.7 ± 0.3146
320
300
280
260
240
220
200
180
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

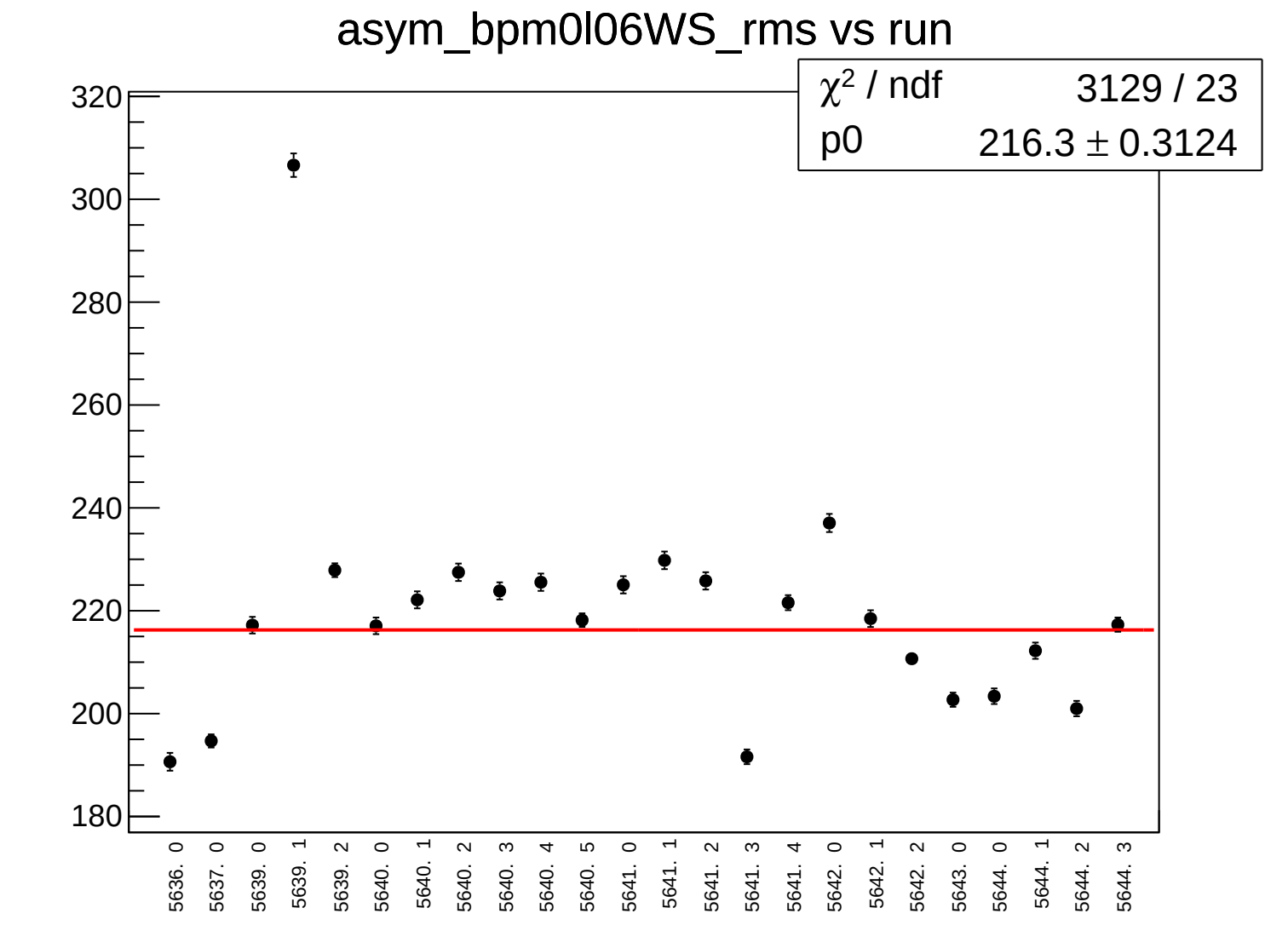

asym_bpm0l05WS_mean vs run
χ² / ndf 20.1 / 23
p0 −915.5 ± 465.2
8000
6000
4000
2000
0
−2000
−4000
−6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −88.18
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

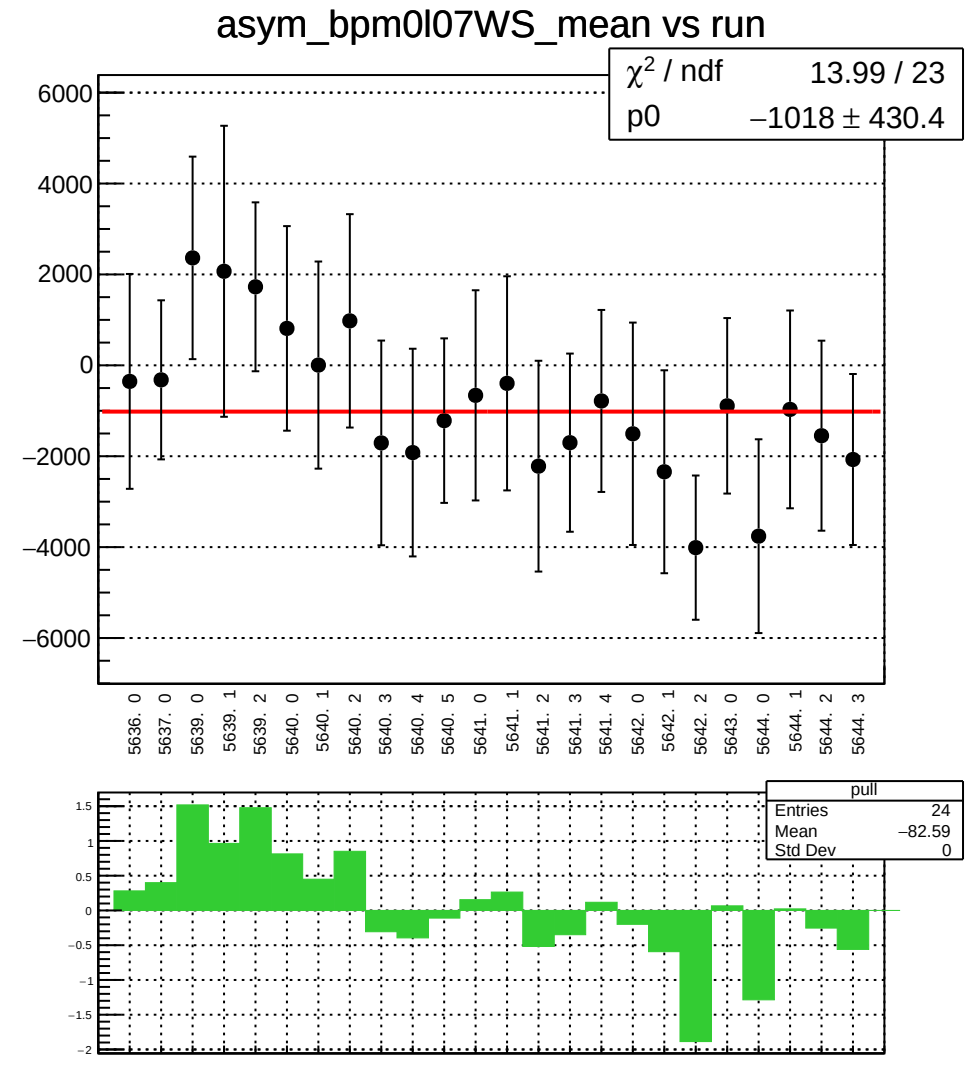

pull1D
Entries 24
Mean 0.04925
Std Dev 0.9138
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

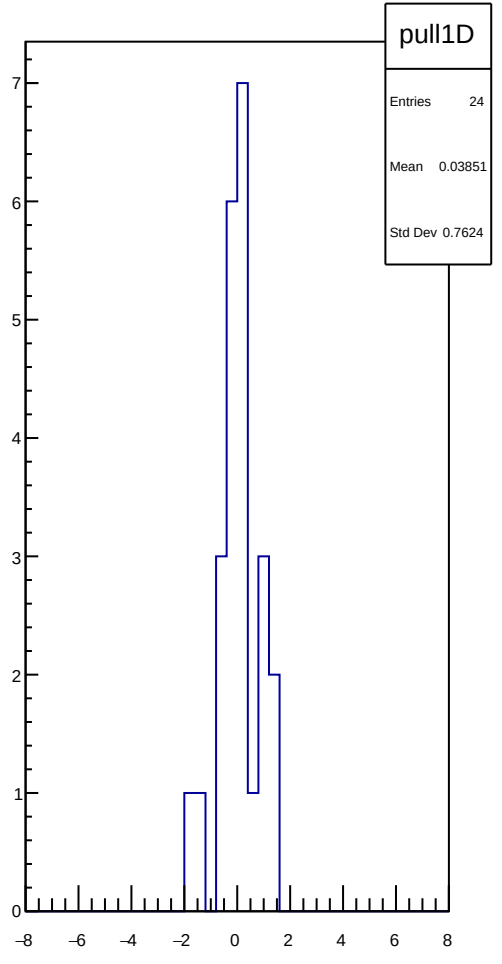

asym_bpm0l05WS_rms vs run
χ² / ndf 3638 / 23
p0 227.6 ± 0.3289
360
340
320
300
280
260
240
220
200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

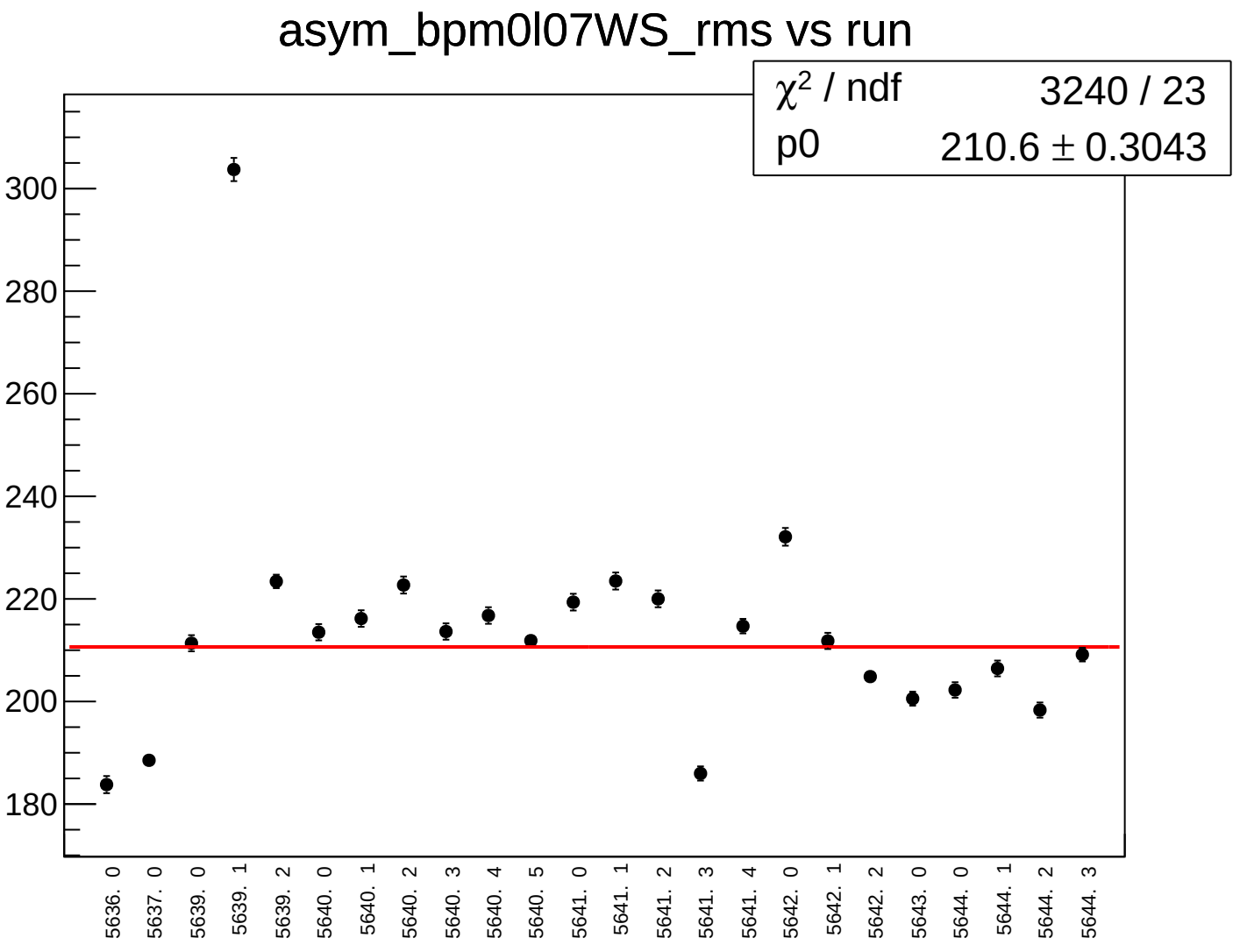

asym_bpm0l06WS_mean vs run
χ² / ndf 17.56 / 23
p0 −831.9 ± 441.9
8000
6000
4000
2000
0
−2000
−4000
−6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −81
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

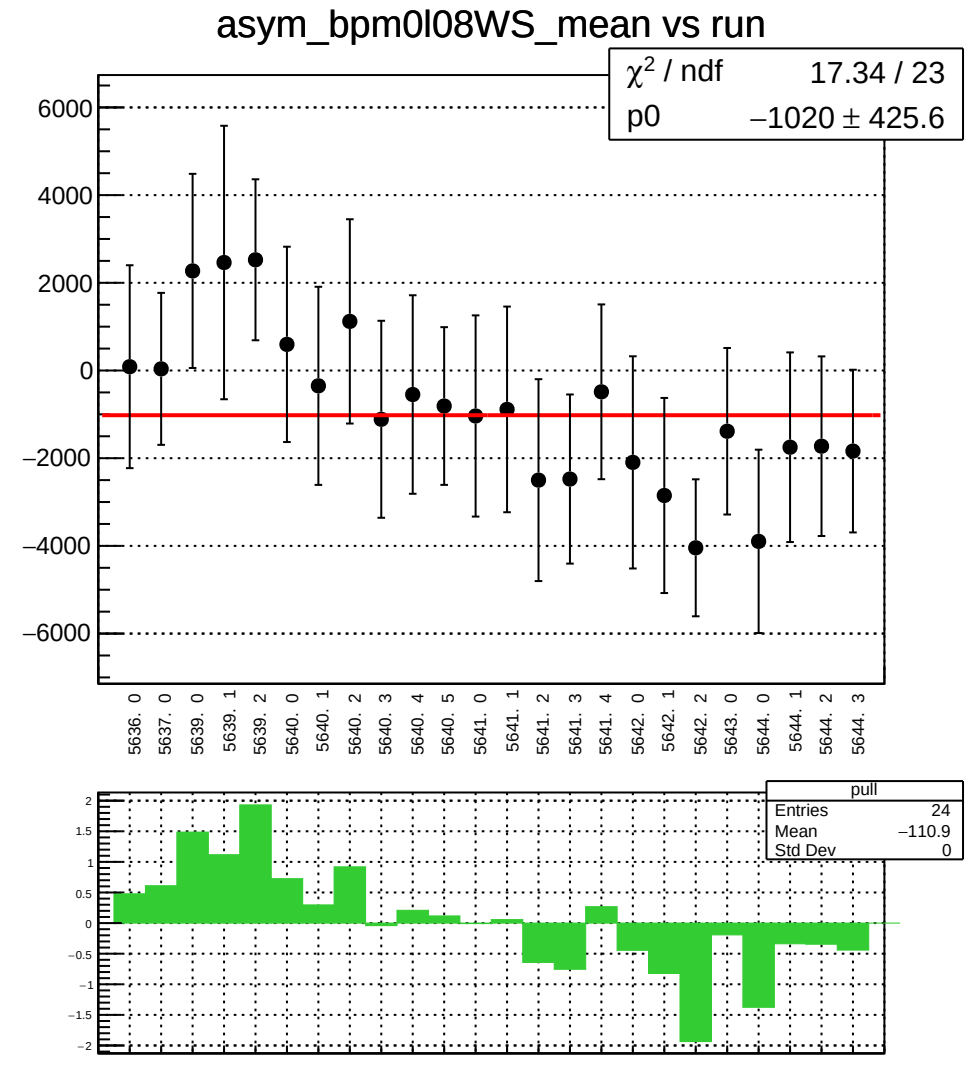

pull1D
Entries 24
Mean 0.04899
Std Dev 0.8539
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

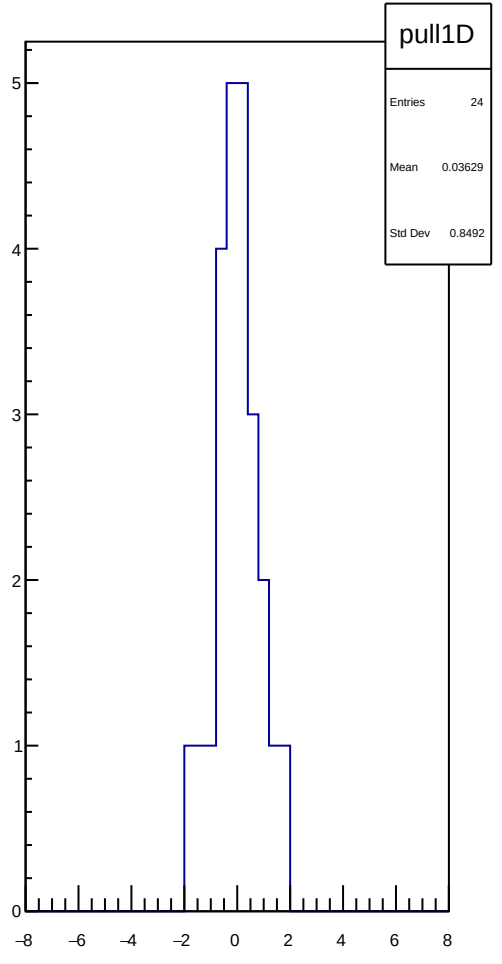

asym_bpm0l06WS_rms vs run
χ² / ndf 3129 / 23
p0 216.3 ± 0.3124
320
300
280
260
240
220
200
180
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

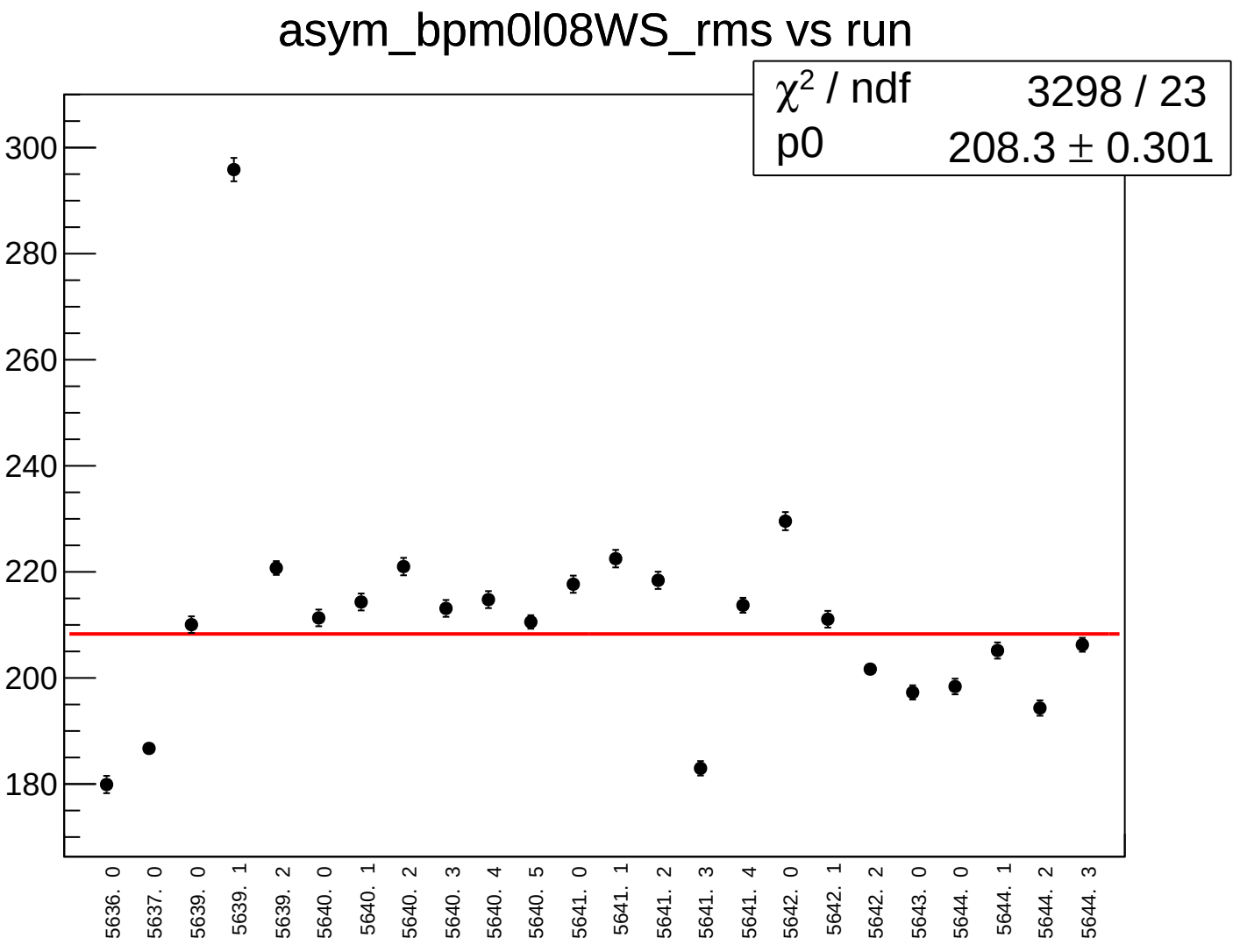

asym_bpm0l07WS_mean vs run
χ² / ndf 13.99 / 23
p0 −1018 ± 430.4
6000
4000
2000
0
−2000
−4000
−6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −82.59
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

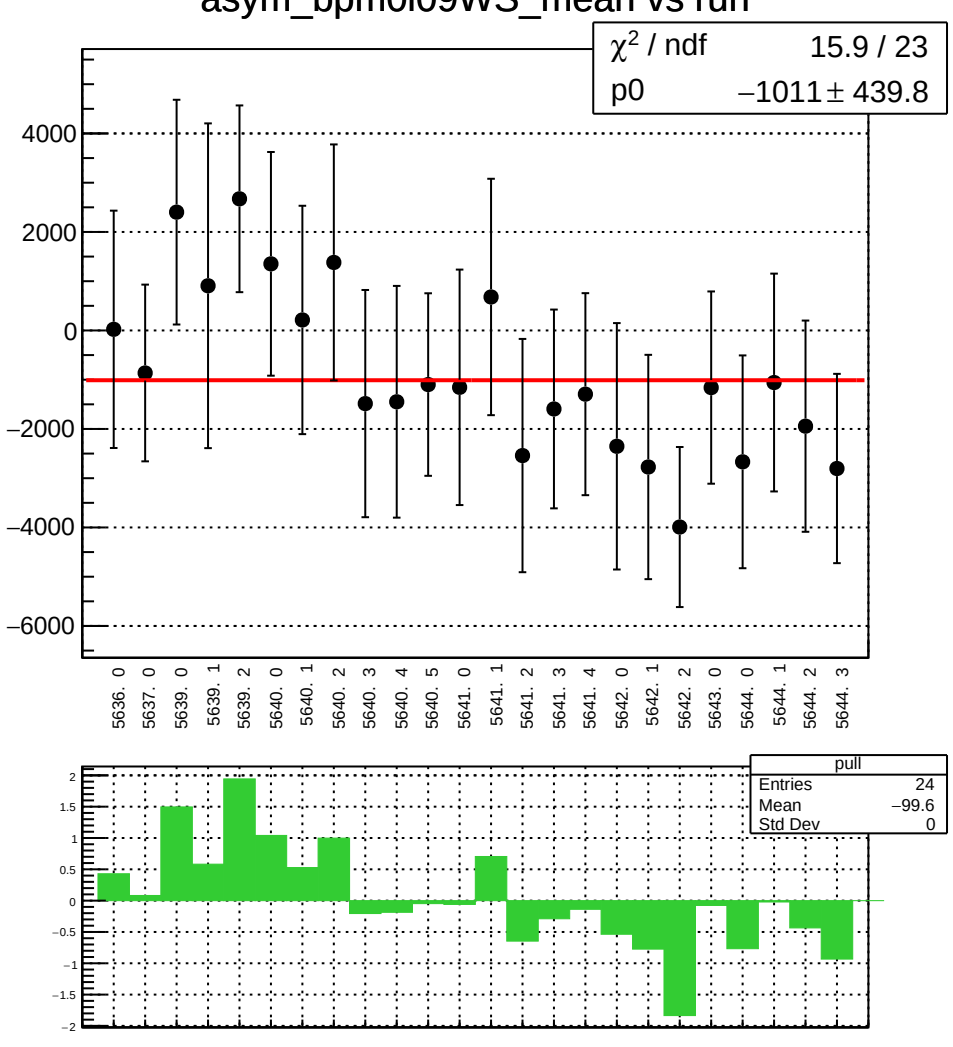

pull1D
Entries 24
Mean 0.03851
Std Dev 0.7624
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

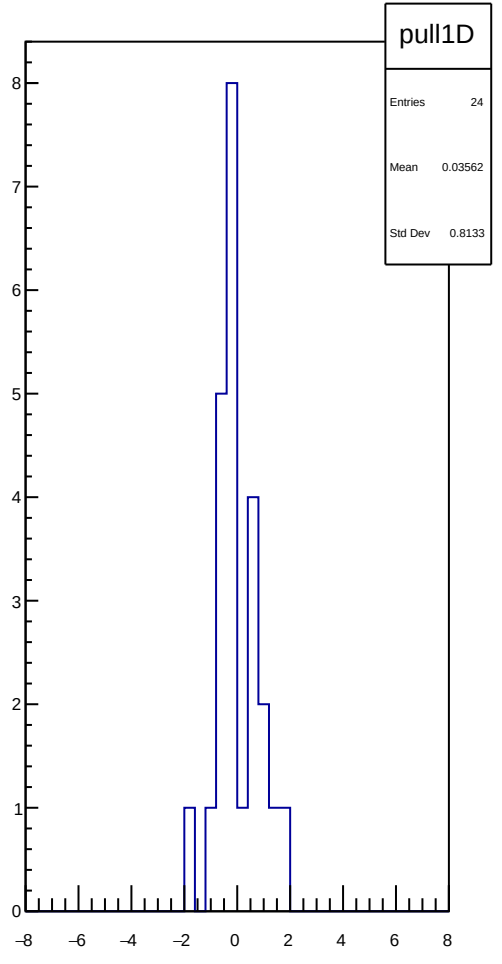

asym_bpm0l07WS_rms vs run
χ² / ndf 3240 / 23
p0 210.6 ± 0.3043
300
280
260
240
220
200
180
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

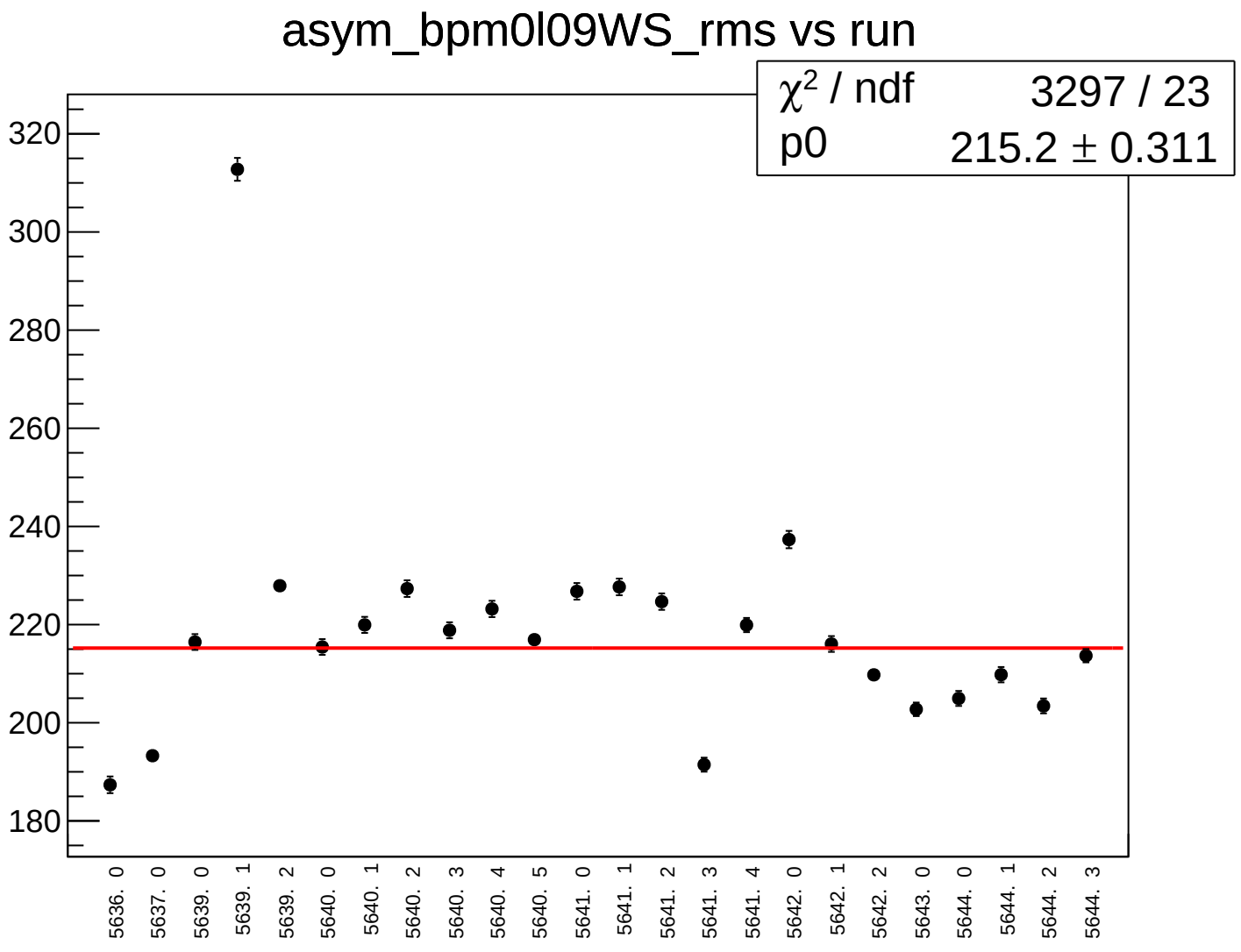

asym_bpm0l08WS_mean vs run
χ² / ndf 17.34 / 23
p0 −1020 ± 425.6
6000
4000
2000
0
−2000
−4000
−6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −110.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

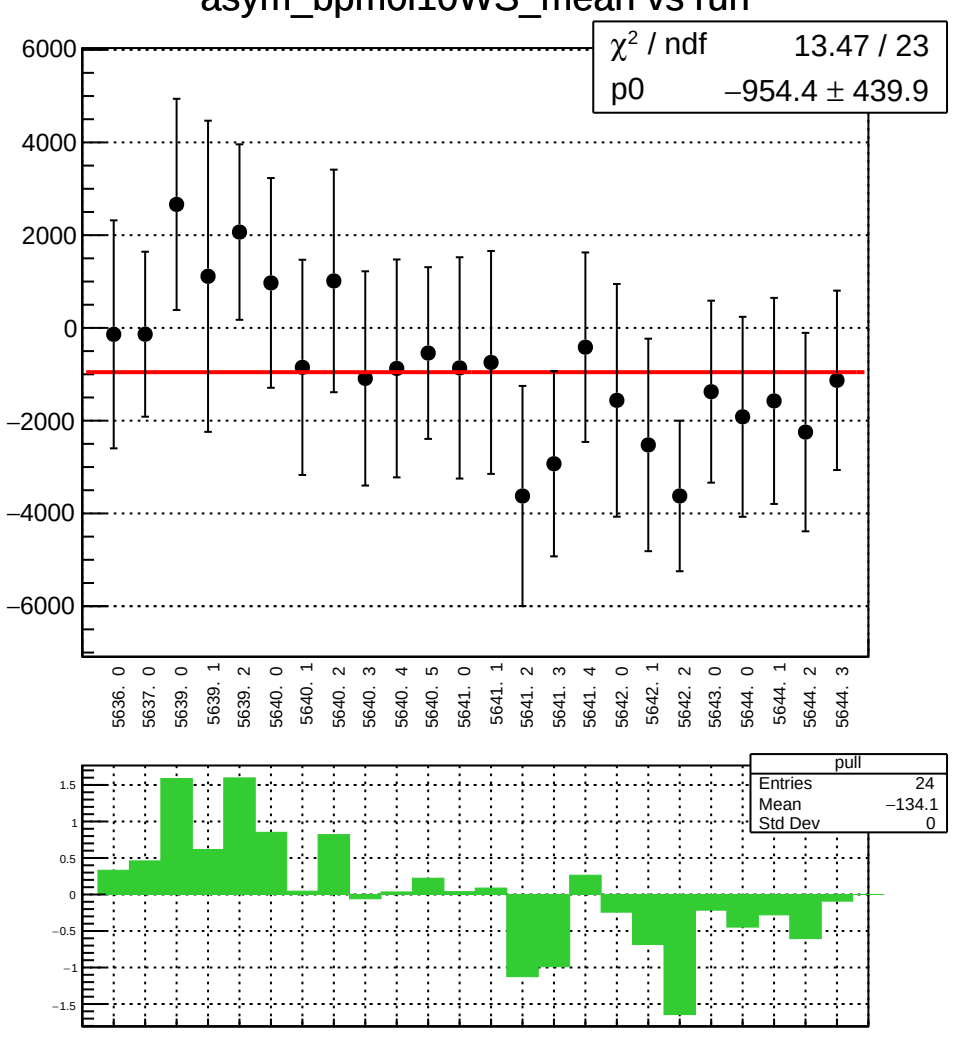

pull1D
Entries 24
Mean 0.03629
Std Dev 0.8492
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

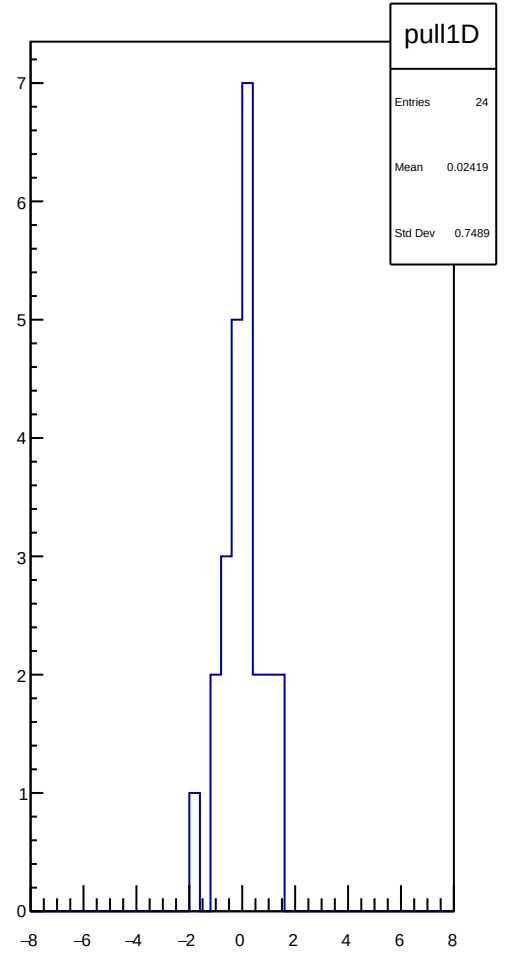

asym_bpm0l08WS_rms vs run
χ² / ndf 3298 / 23
p0 208.3 ± 0.301
300
280
260
240
220
200
180
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

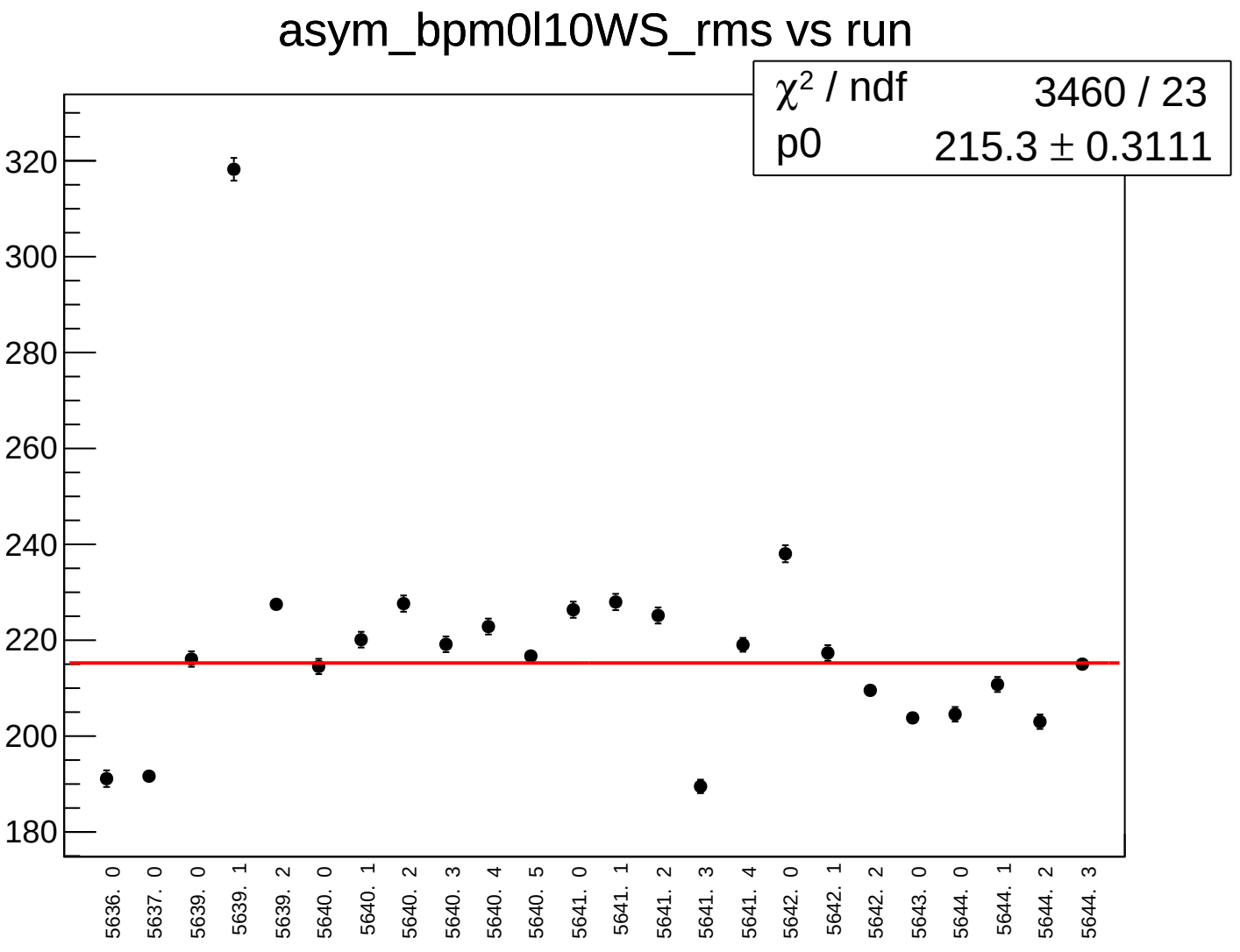

asym_bpm0l09WS_mean vs run
χ² / ndf 15.9 / 23
p0 −1011 ± 439.8
4000
2000
0
−2000
−4000
−6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −99.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

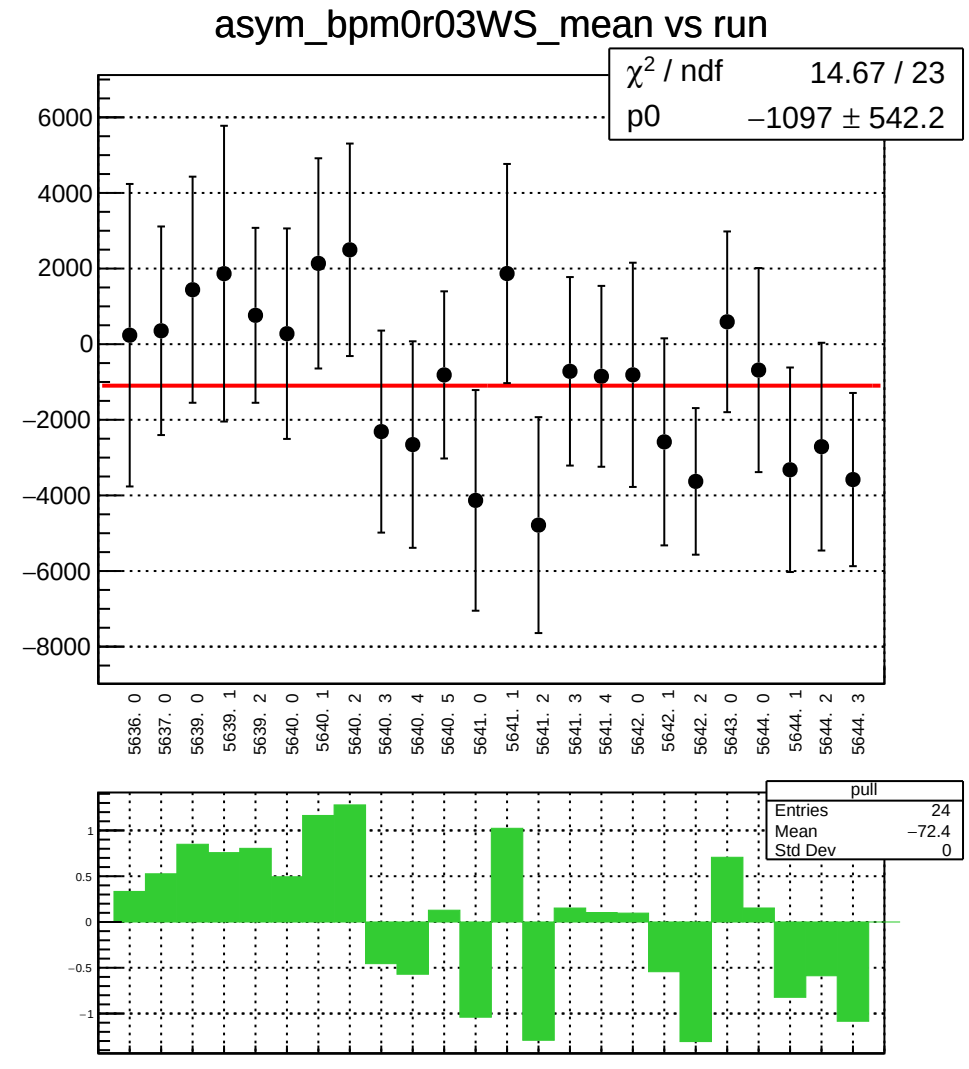

pull1D
Entries 24
Mean 0.03562
Std Dev 0.8133
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

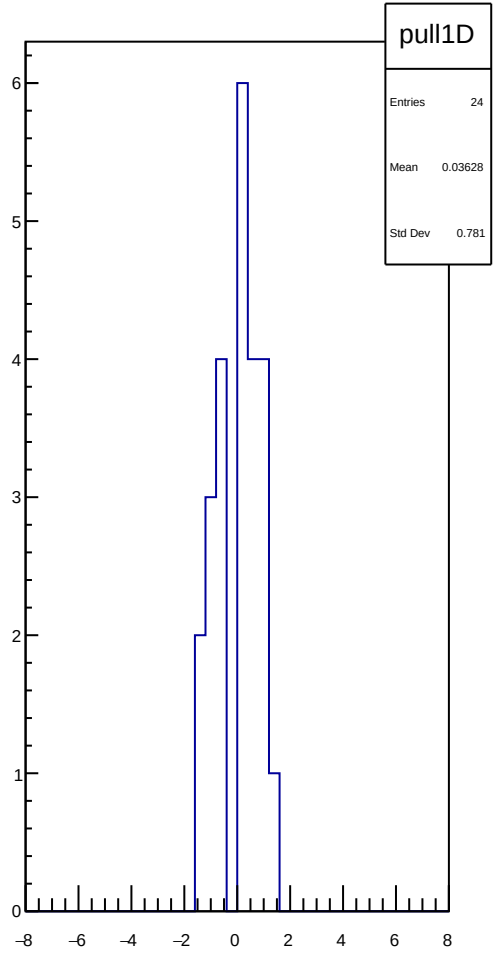

asym_bpm0l09WS_rms vs run
χ² / ndf 3297 / 23
p0 215.2 ± 0.311
320
300
280
260
240
220
200
180
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

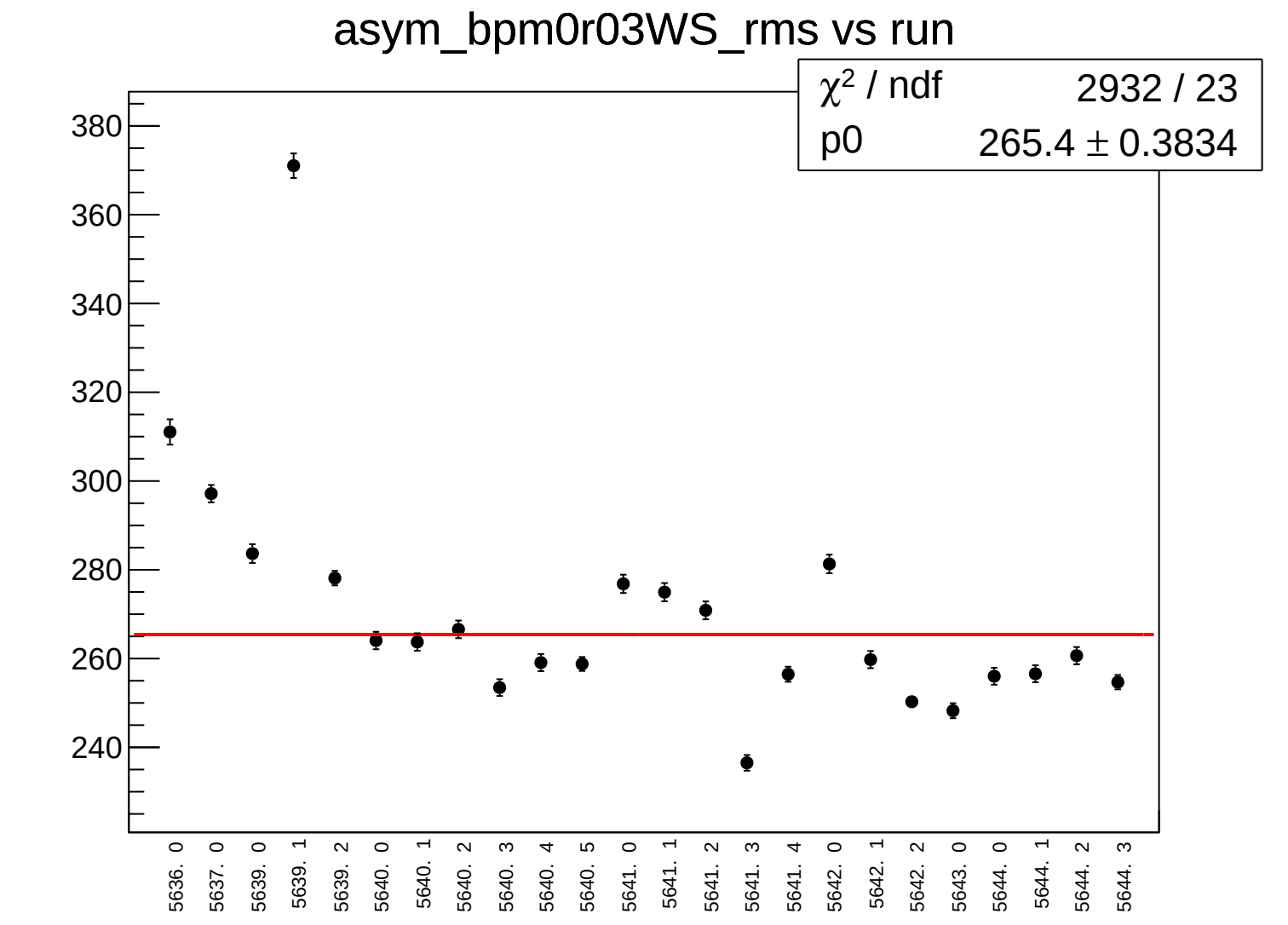

asym_bpm0l10WS_mean vs run
χ² / ndf 13.47 / 23
p0 −954.4 ± 439.9
6000
4000
2000
0
−2000
−4000
−6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −134.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

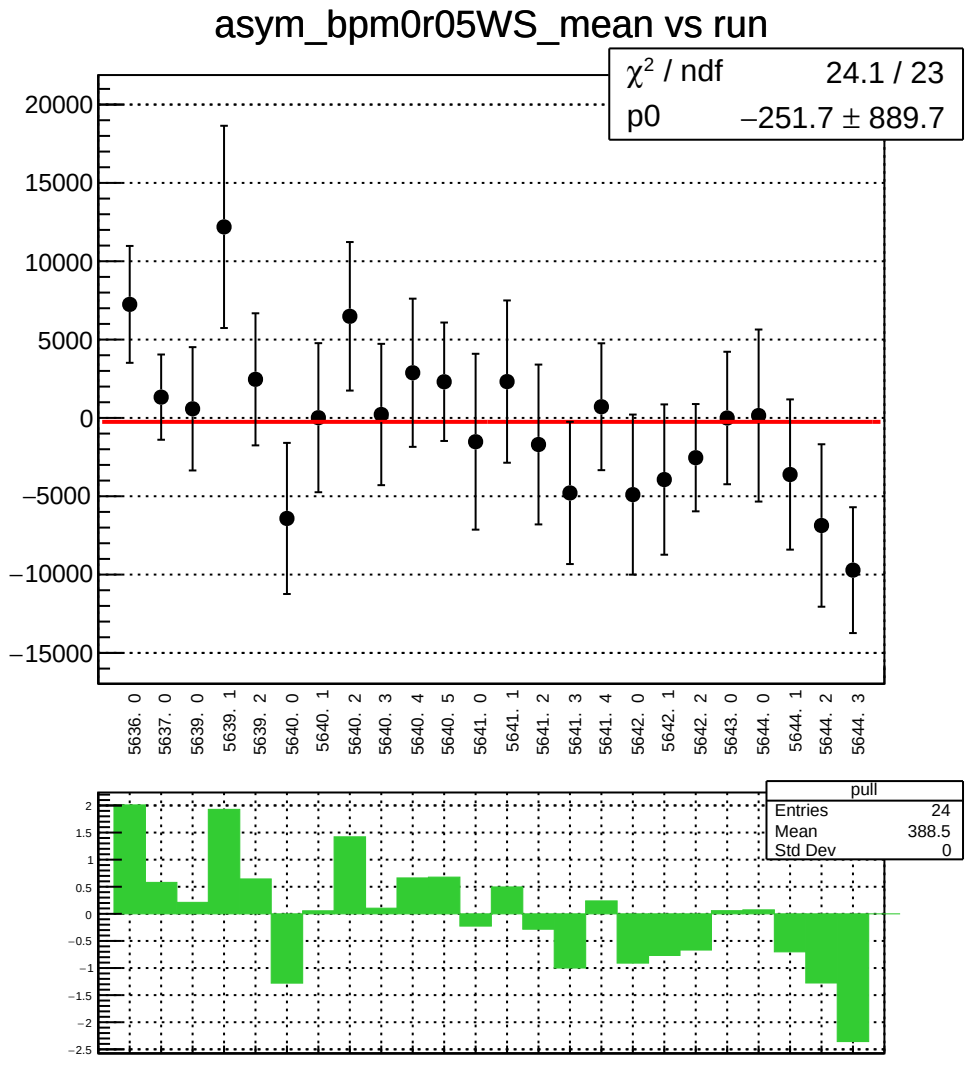

pull1D
Entries 24
Mean 0.02419
Std Dev 0.7489
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

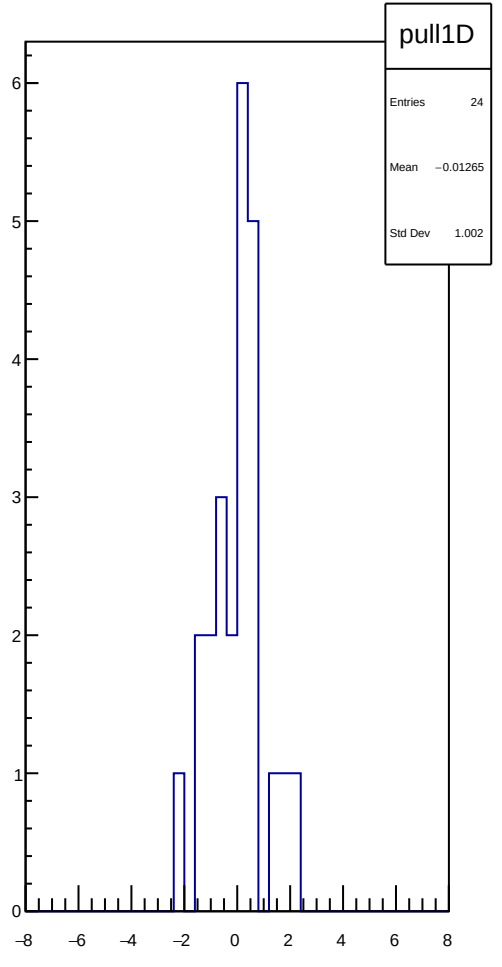

asym_bpm0l10WS_rms vs run
χ² / ndf 3460 / 23
p0 215.3 ± 0.3111
320
300
280
260
240
220
200
180
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

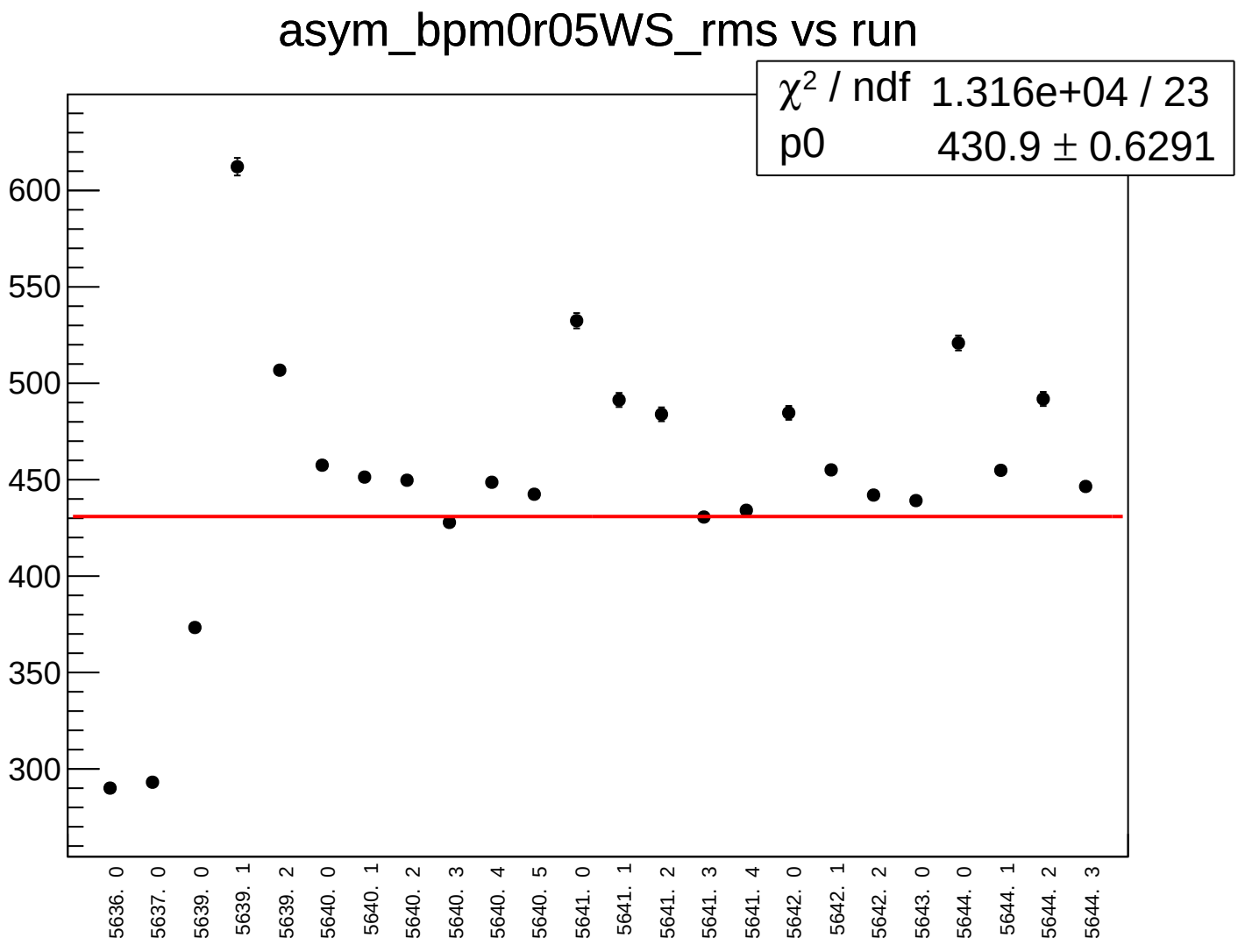

asym_bpm0r03WS_mean vs run
χ² / ndf 14.67 / 23
p0 −1097 ± 542.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −72.4
Std Dev 0
1
0.5
0
−0.5
−1

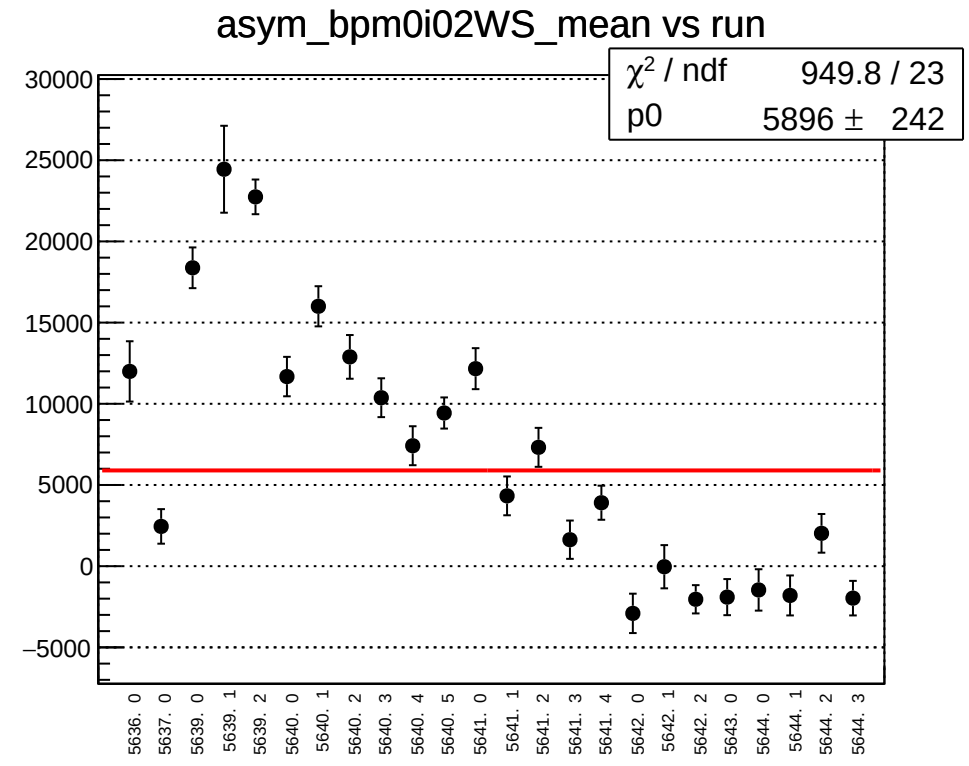

pull1D
Entries 24
Mean 0.03628
Std Dev 0.781
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

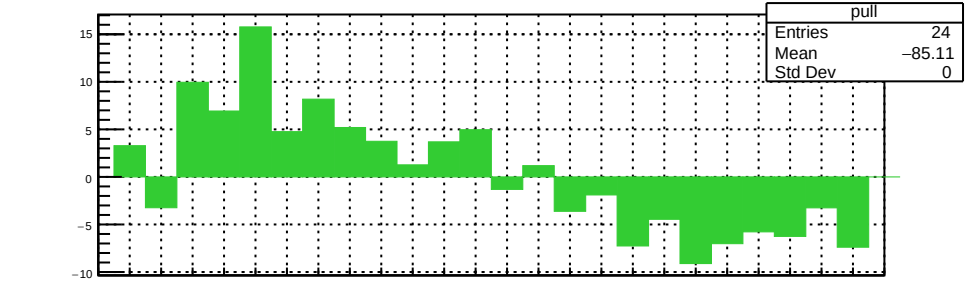

asym_bpm0r03WS_rms vs run
χ² / ndf 2932 / 23
p0 265.4 ± 0.3834
380
360
340
320
300
280
260
240
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

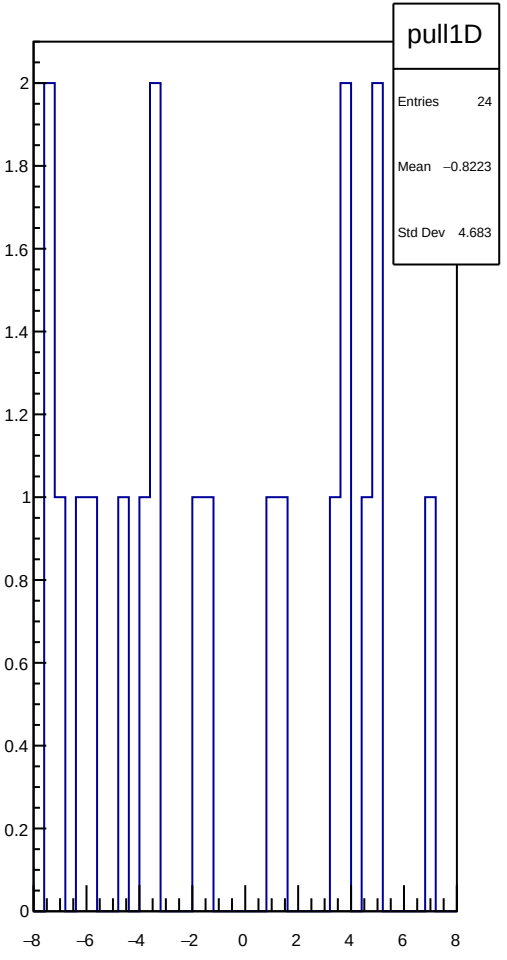

asym_bpm0r05WS_mean vs run
χ² / ndf 24.1 / 23
p0 −251.7 ± 889.7
20000
15000
10000
5000
0
−5000
−10000
−15000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 388.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

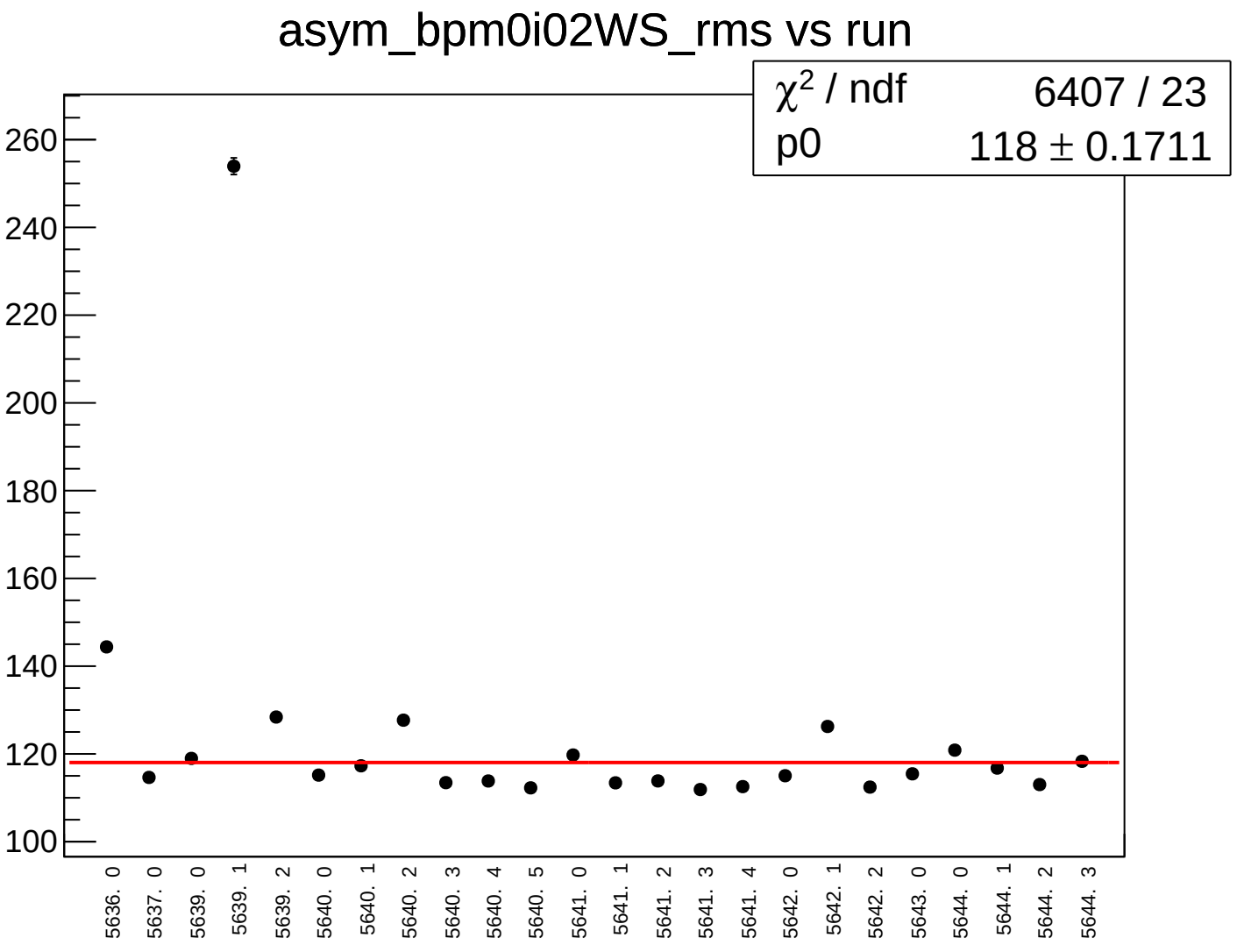

pull1D
Entries 24
Mean −0.01265
Std Dev 1.002
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

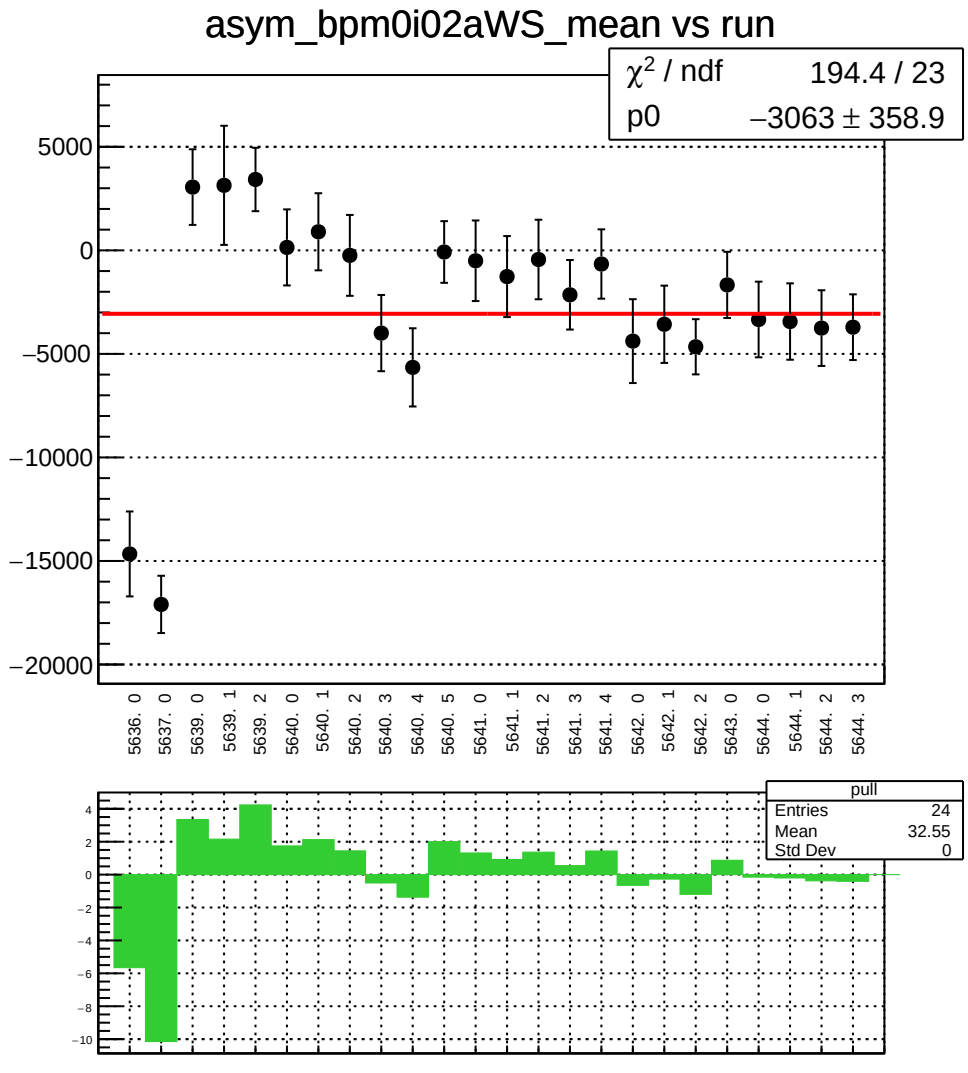

asym_bpm0r05WS_rms vs run
χ² / ndf 1.316e+04 / 23
p0 430.9 ± 0.6291
600
550
500
450
400
350
300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

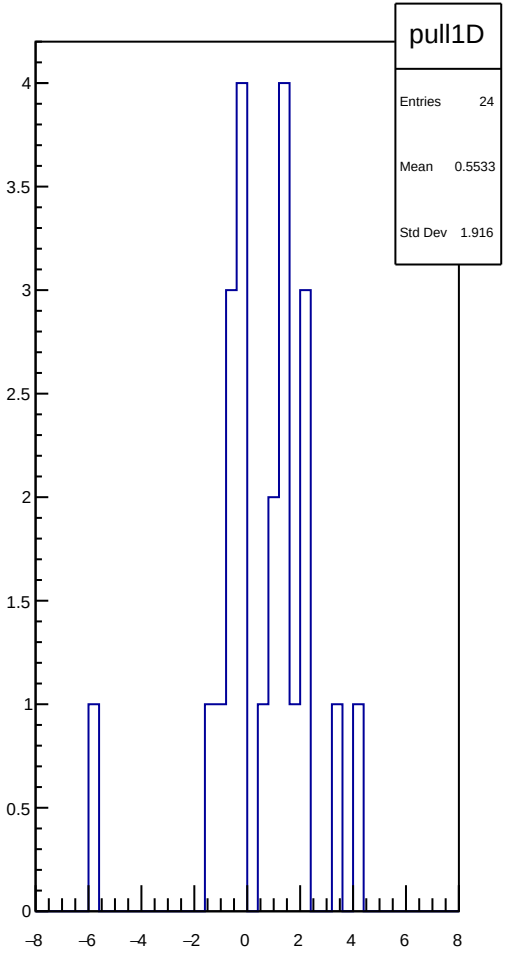

asym_bpm0i02WS_mean vs run
χ² / ndf 949.8 / 23
p0 5896 ± 242
30000
25000
20000
15000
10000
5000
0
−5000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

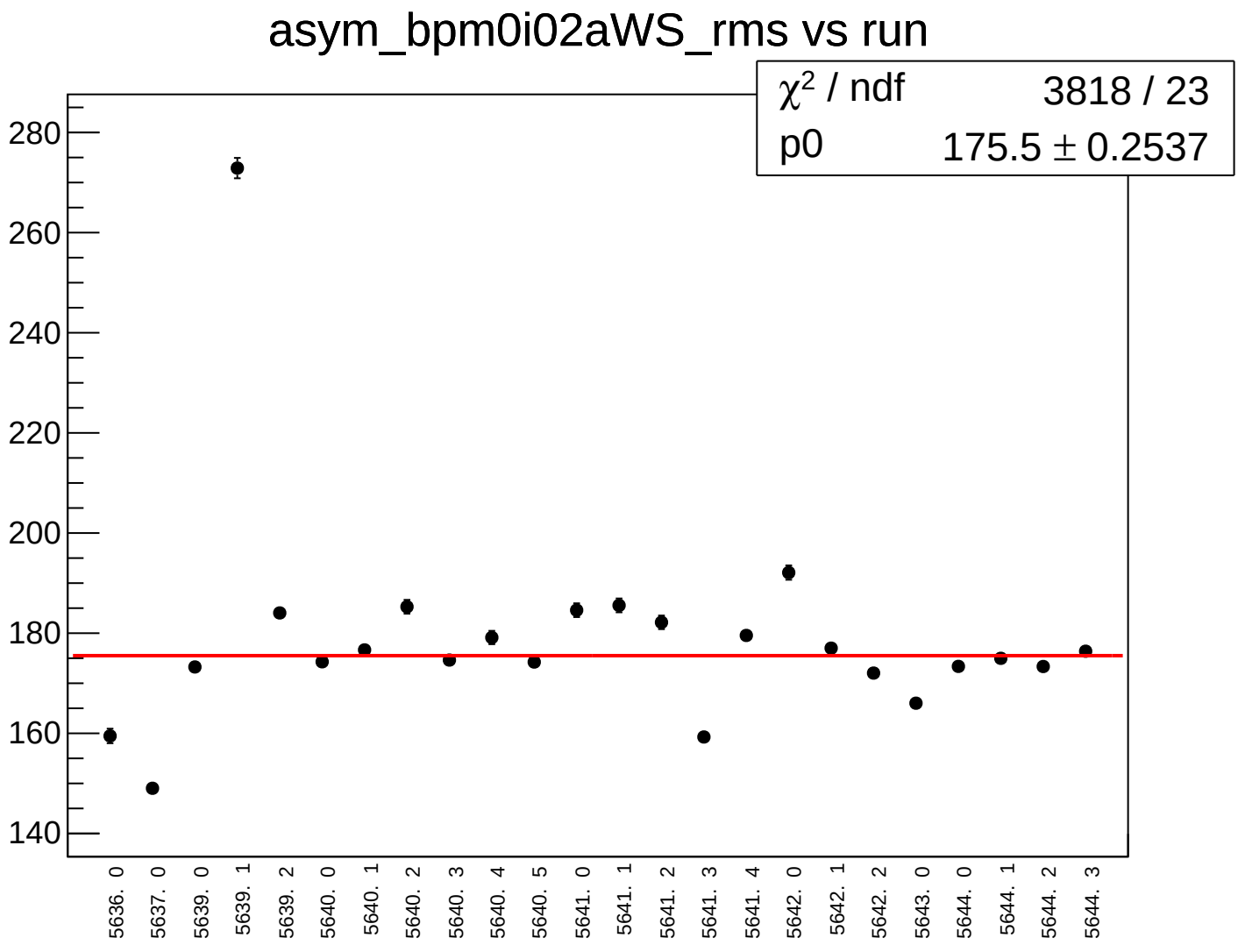

pull
Entries 24
Mean −85.11
Std Dev 0
15
10
5
0
−5
−10

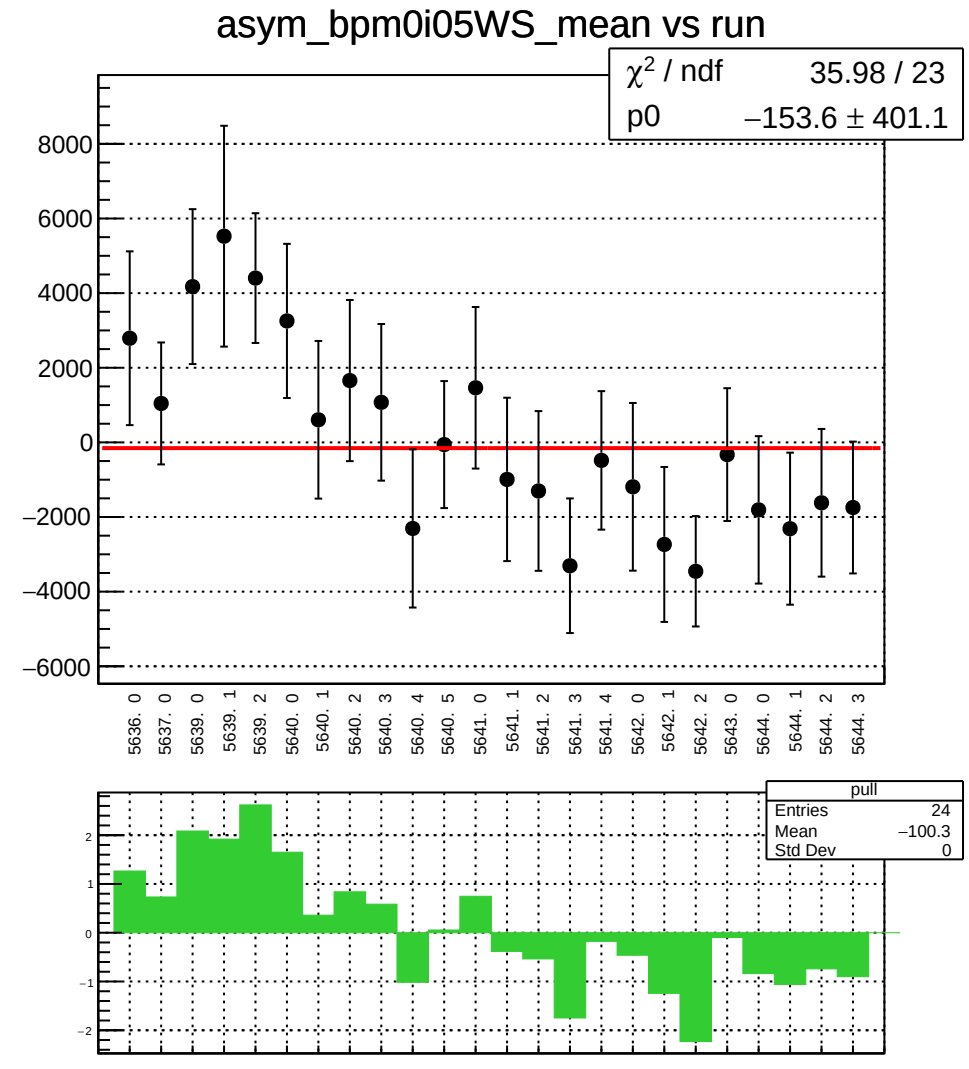

pull1D
Entries 24
Mean −0.8223
Std Dev 4.683
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

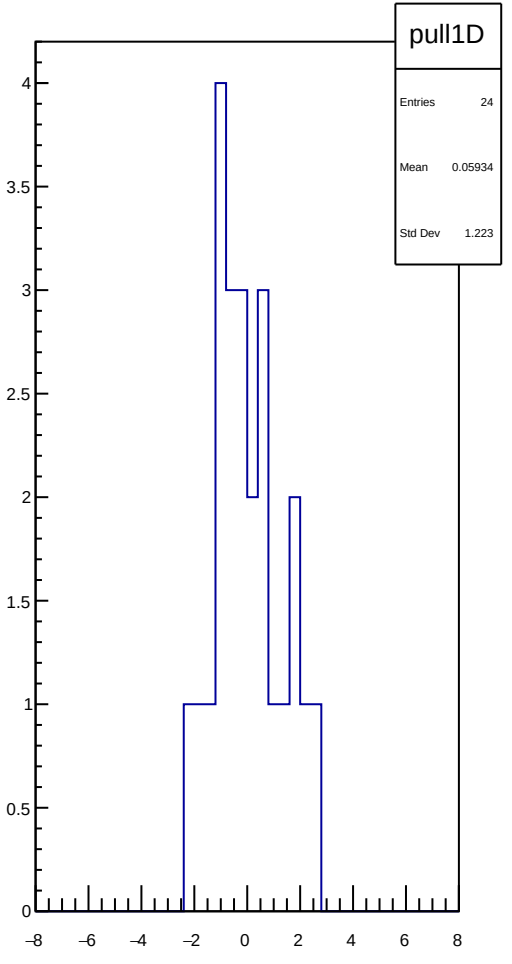

asym_bpm0i02WS_rms vs run
χ² / ndf 6407 / 23
p0 118 ± 0.1711
260
240
220
200
180
160
140
120
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

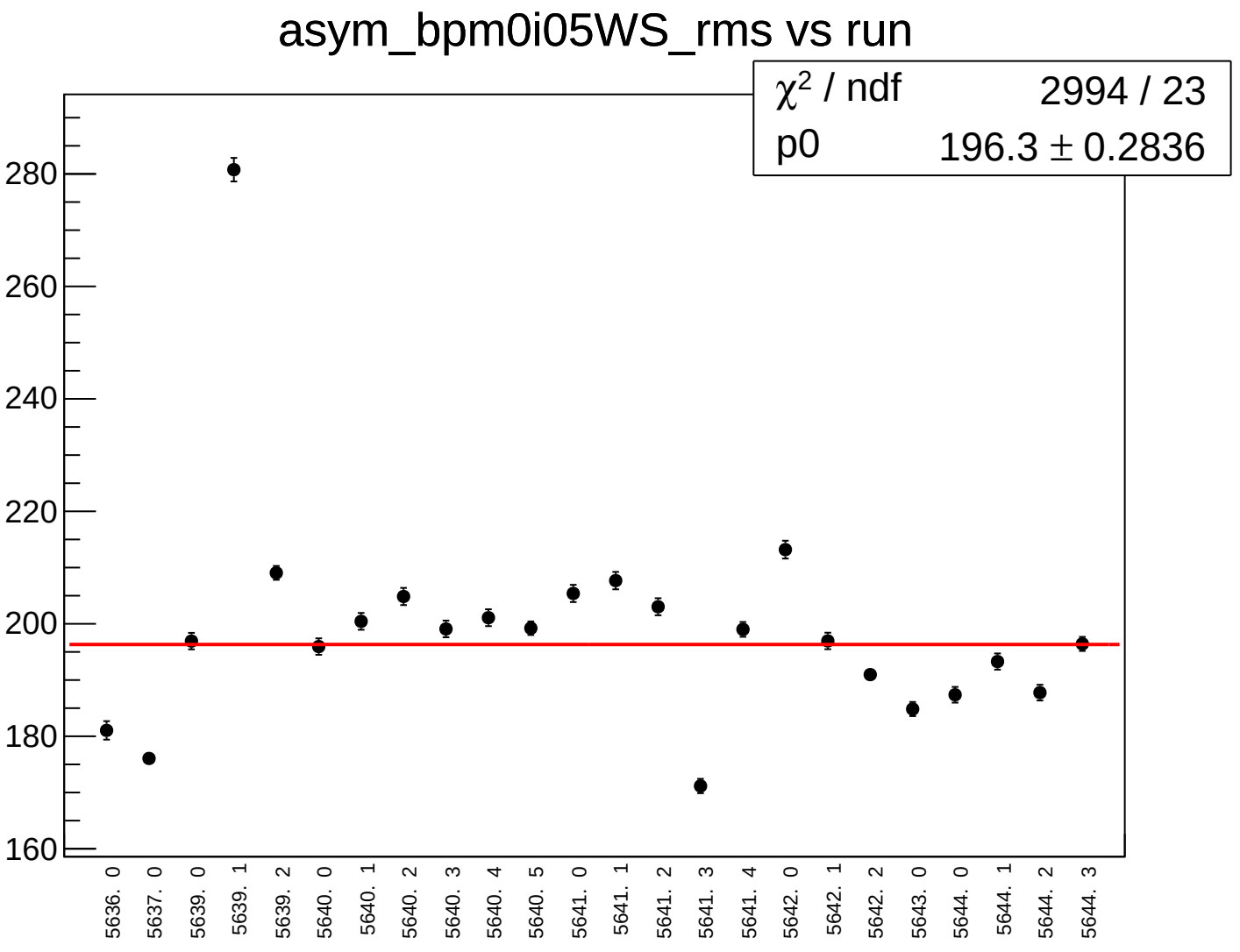

asym_bpm0i02aWS_mean vs run
χ² / ndf 194.4 / 23
p0 −3063 ± 358.9
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 32.55
Std Dev 0
4
2
0
−2
−4
−6
−8
−10

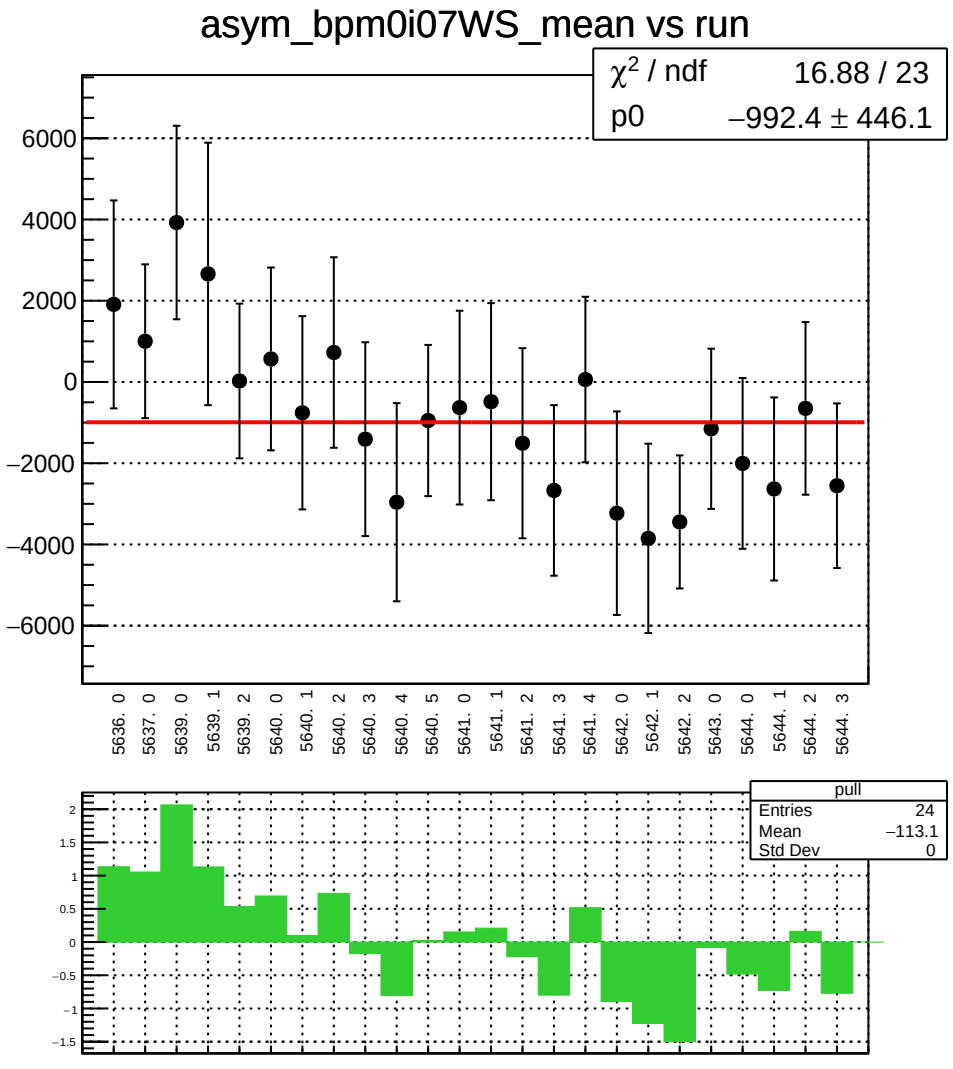

pull1D
Entries 24
Mean 0.5533
Std Dev 1.916
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

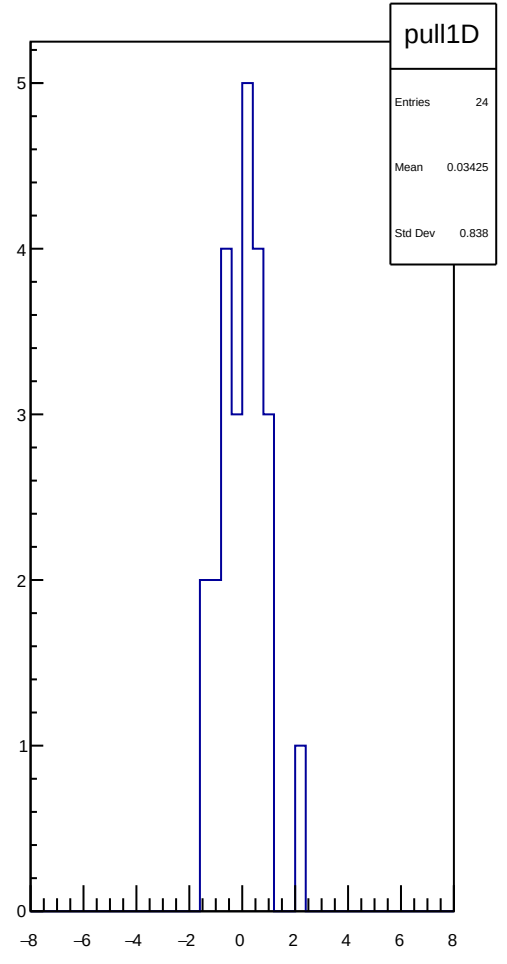

asym_bpm0i02aWS_rms vs run
χ² / ndf 3818 / 23
p0 175.5 ± 0.2537
280
260
240
220
200
180
160
140
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

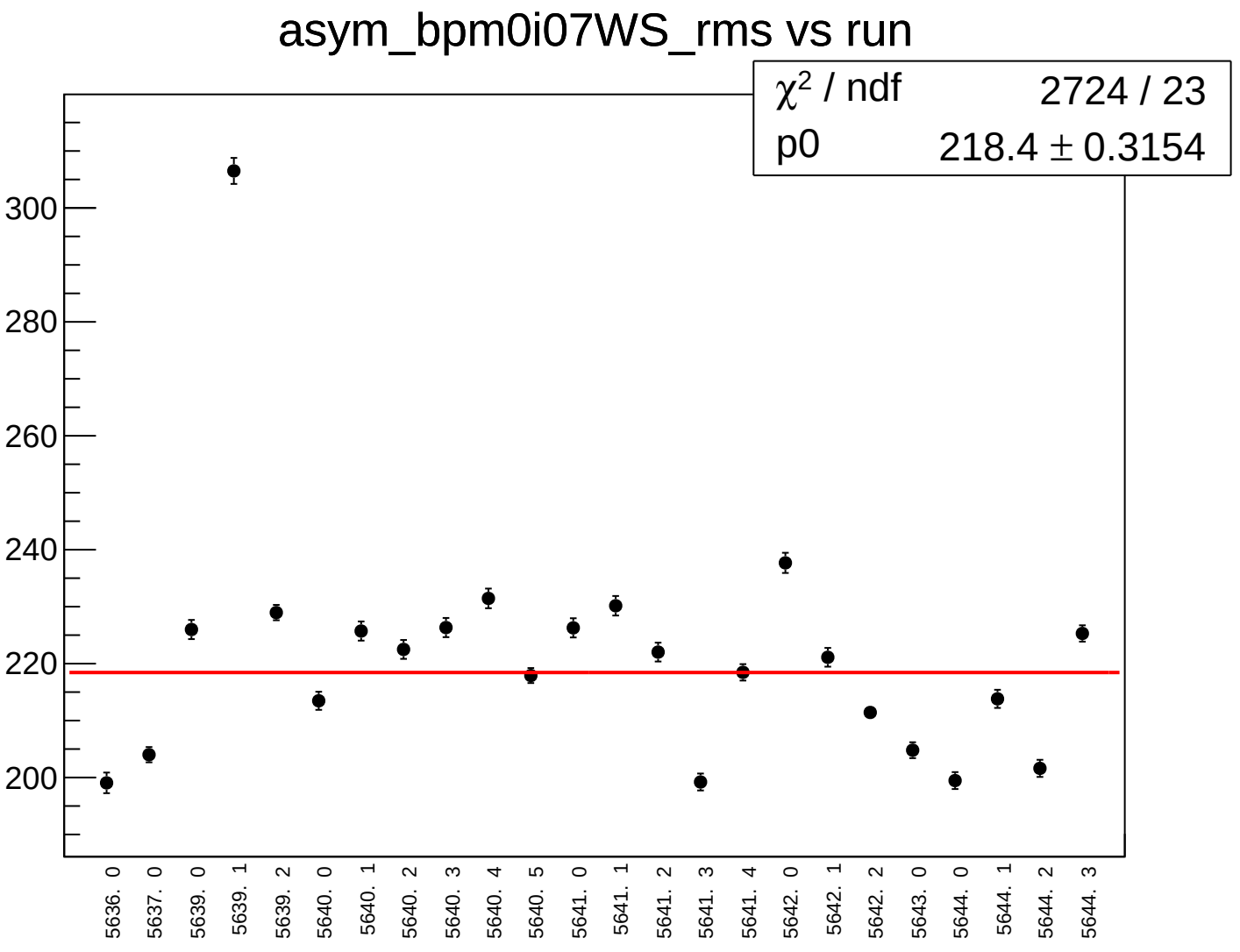

asym_bpm0i05WS_mean vs run
χ² / ndf 35.98 / 23
p0 −153.6 ± 401.1
8000
6000
4000
2000
0
−2000
−4000
−6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −100.3
Std Dev 0
2
1
0
−1
−2

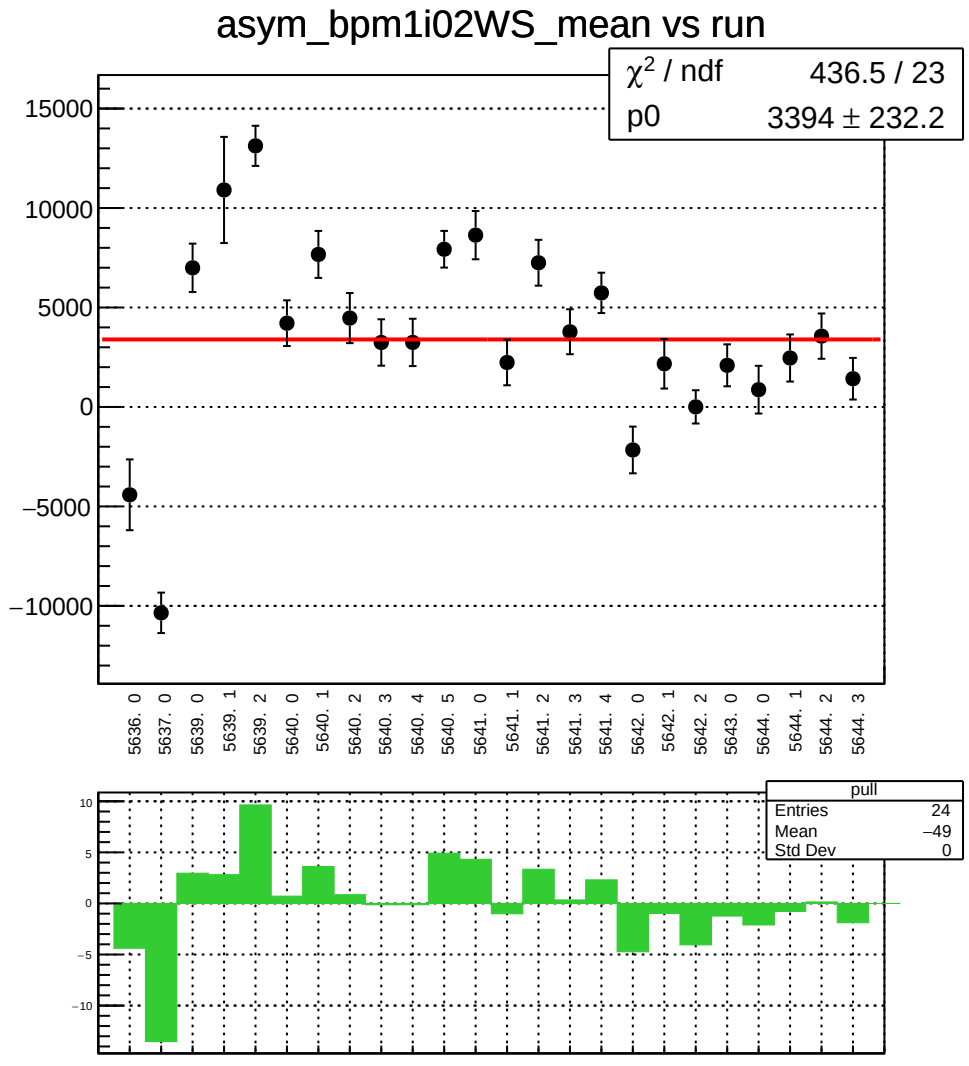

pull1D
Entries 24
Mean 0.05934
Std Dev 1.223
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

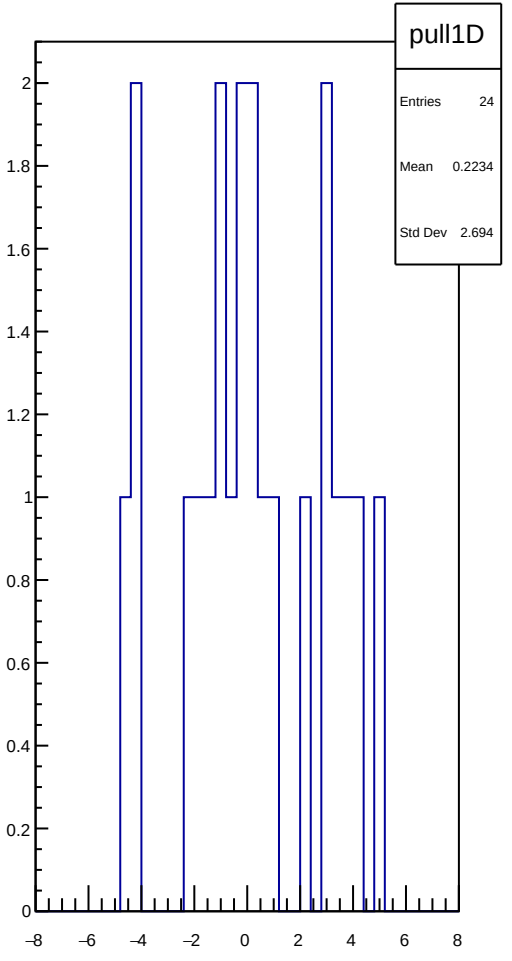

asym_bpm0i05WS_rms vs run
χ² / ndf 2994 / 23
p0 196.3 ± 0.2836
280
260
240
220
200
180
160
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

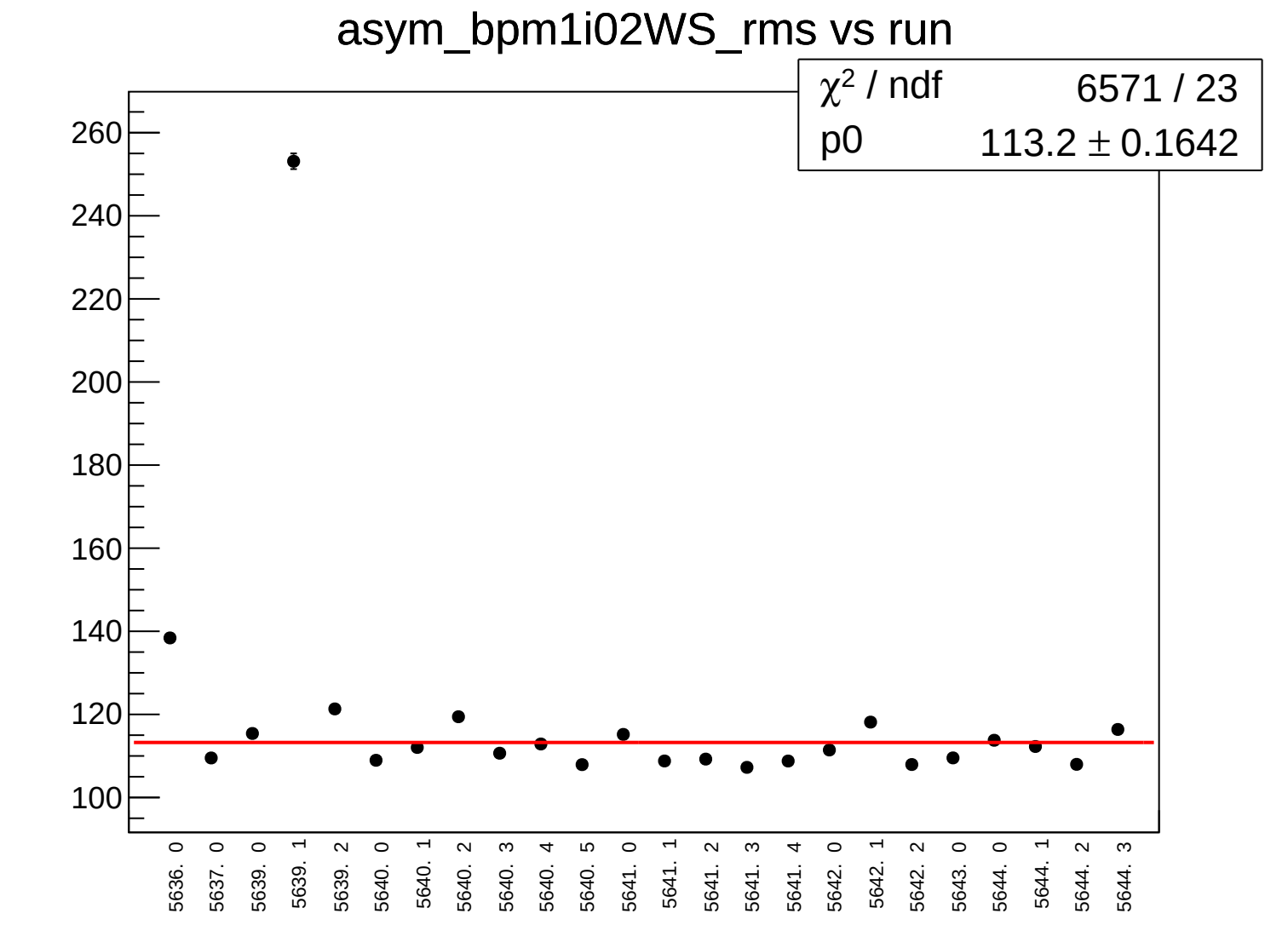

asym_bpm0i07WS_mean vs run
χ² / ndf 16.88 / 23
p0 −992.4 ± 446.1
6000
4000
2000
0
−2000
−4000
−6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −113.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

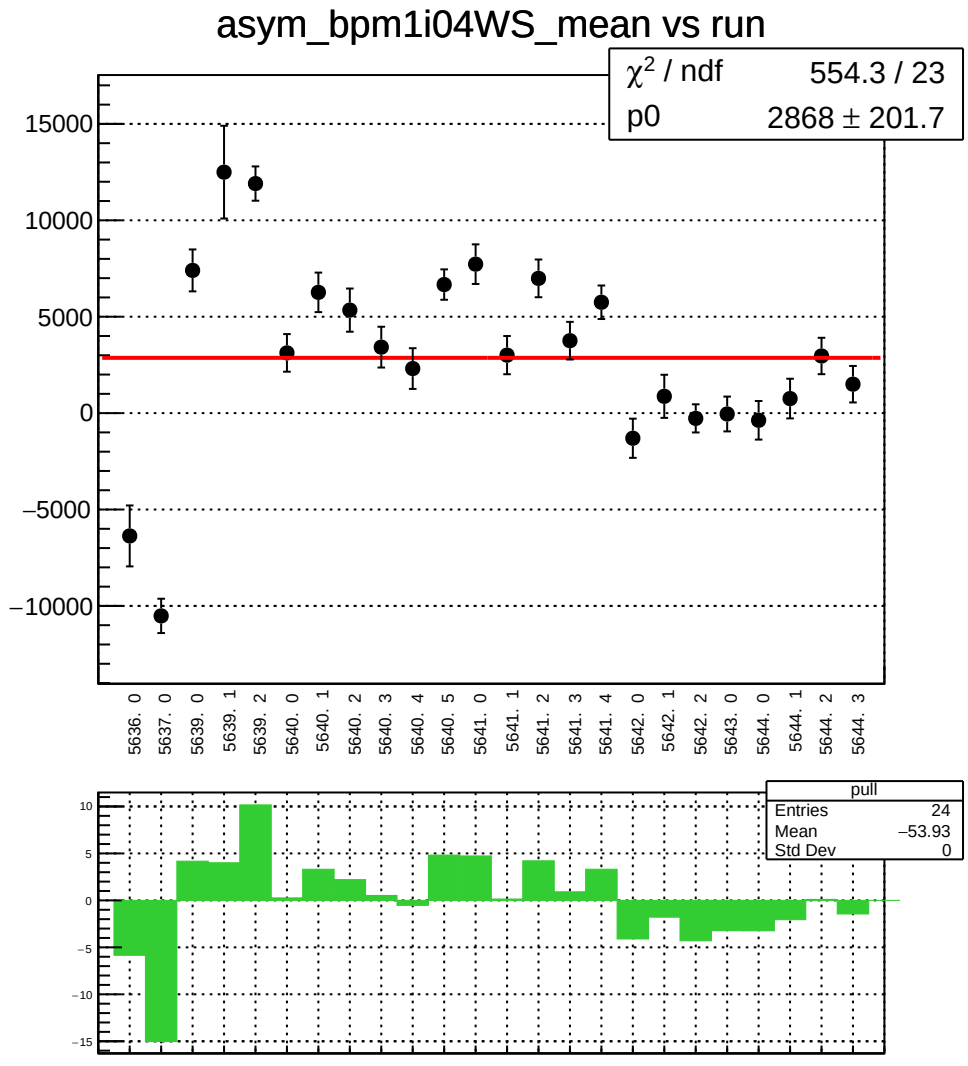

pull1D
Entries 24
Mean 0.03425
Std Dev 0.838
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

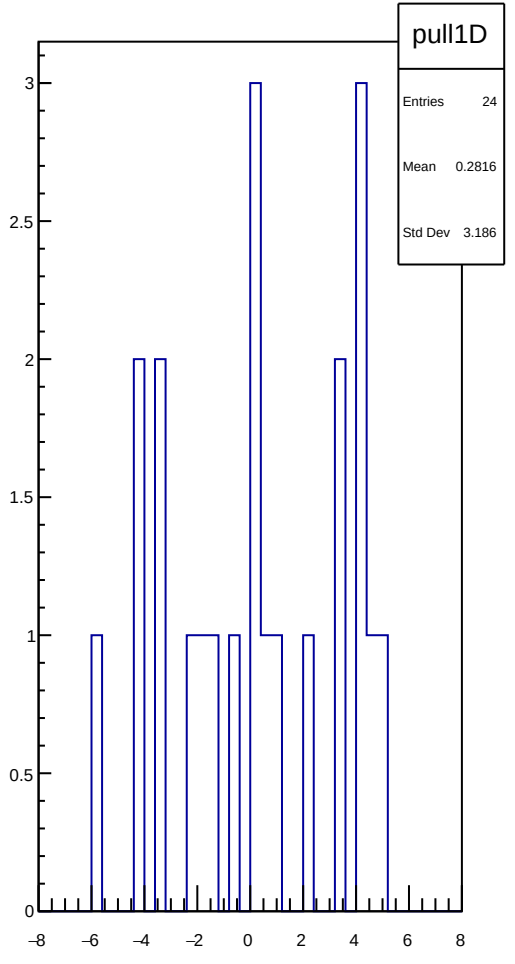

asym_bpm0i07WS_rms vs run
χ² / ndf 2724 / 23
p0 218.4 ± 0.3154
300
280
260
240
220
200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

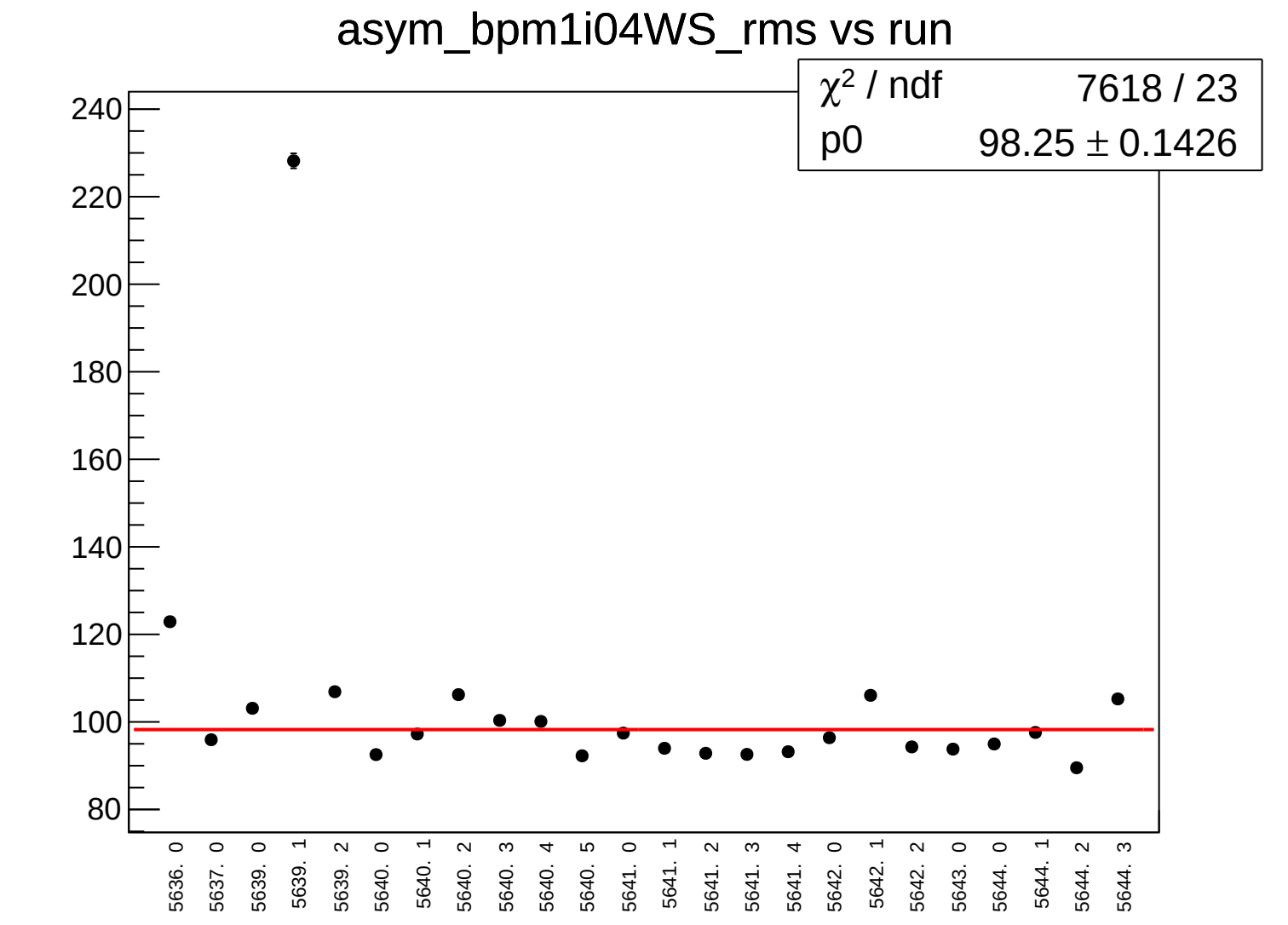

asym_bpm1i02WS_mean vs run
χ² / ndf 436.5 / 23
p0 3394 ± 232.2
15000
10000
5000
0
−5000
−10000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −49
Std Dev 0
10
5
0
−5
−10

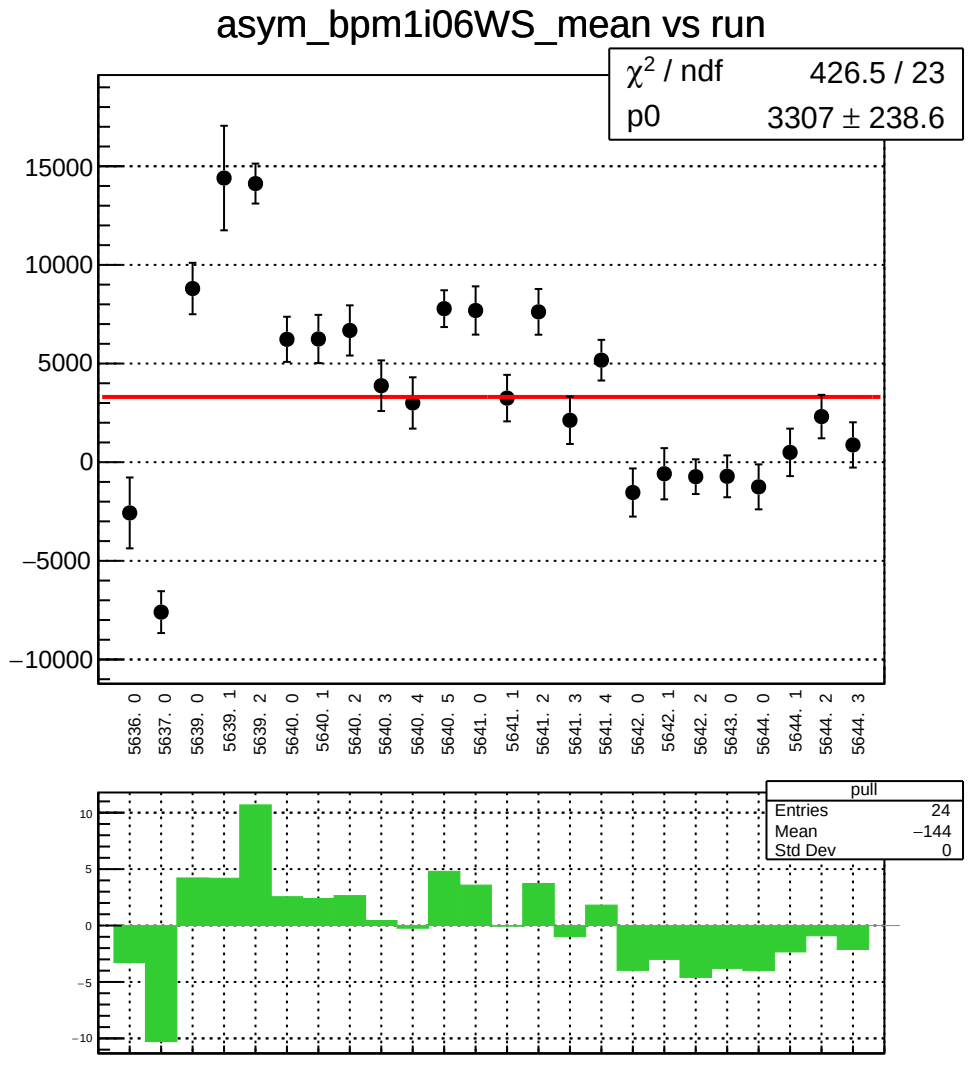

pull1D
Entries 24
Mean 0.2234
Std Dev 2.694
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

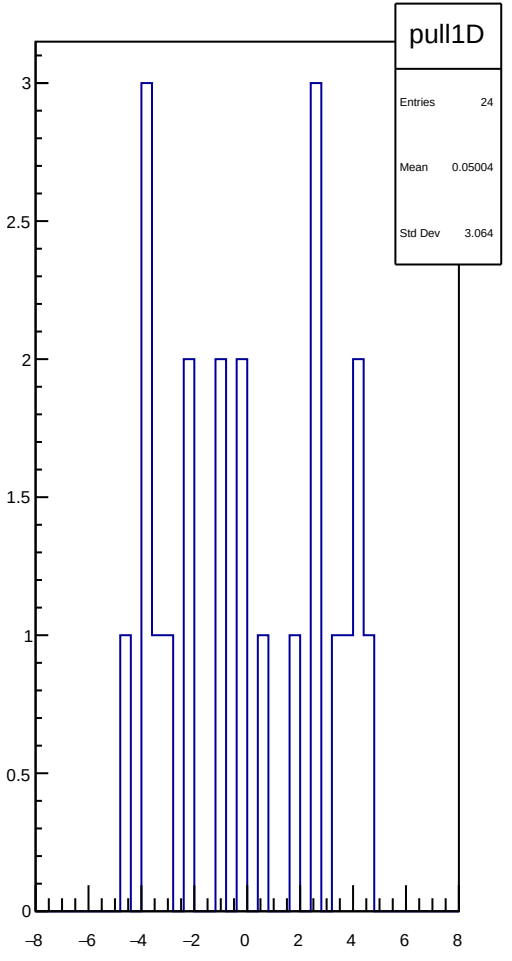

asym_bpm1i02WS_rms vs run
χ² / ndf 6571 / 23
p0 113.2 ± 0.1642
260
240
220
200
180
160
140
120
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

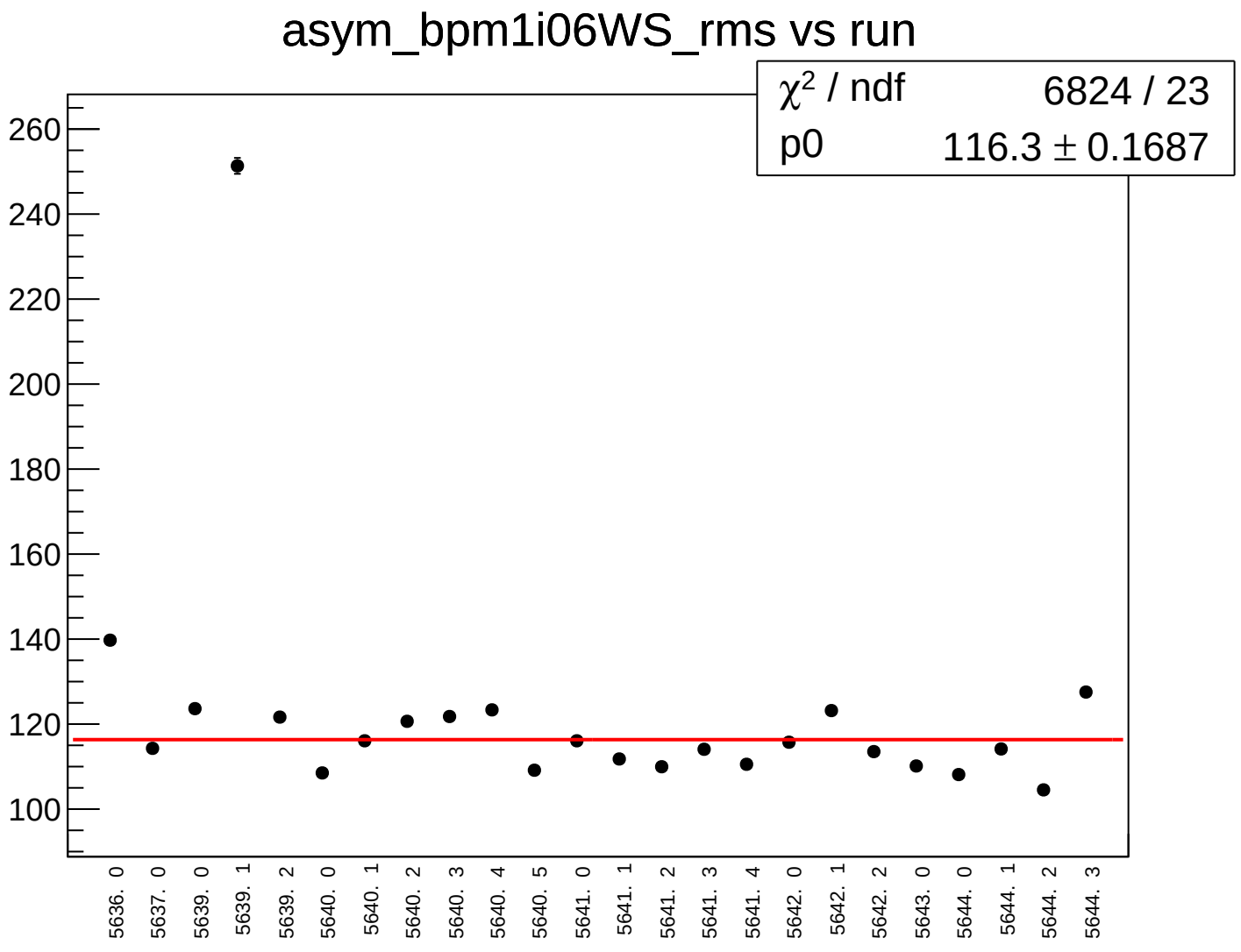

asym_bpm1i04WS_mean vs run
χ² / ndf 554.3 / 23
p0 2868 ± 201.7
15000
10000
5000
0
−5000
−10000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −53.93
Std Dev 0
10
5
0
−5
−10
−15


pull1D
Entries 24
Mean 0.2816
Std Dev 3.186
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm1i04WS_rms vs run
χ² / ndf 7618 / 23
p0 98.25 ± 0.1426
240
220
200
180
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_bpm1i06WS_mean vs run
χ² / ndf 426.5 / 23
p0 3307 ± 238.6
15000
10000
5000
0
−5000
−10000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −144
Std Dev 0
10
5
0
−5
−10


pull1D
Entries 24
Mean 0.05004
Std Dev 3.064
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm1i06WS_rms vs run
χ² / ndf 6824 / 23
p0 116.3 ± 0.1687
260
240
220
200
180
160
140
120
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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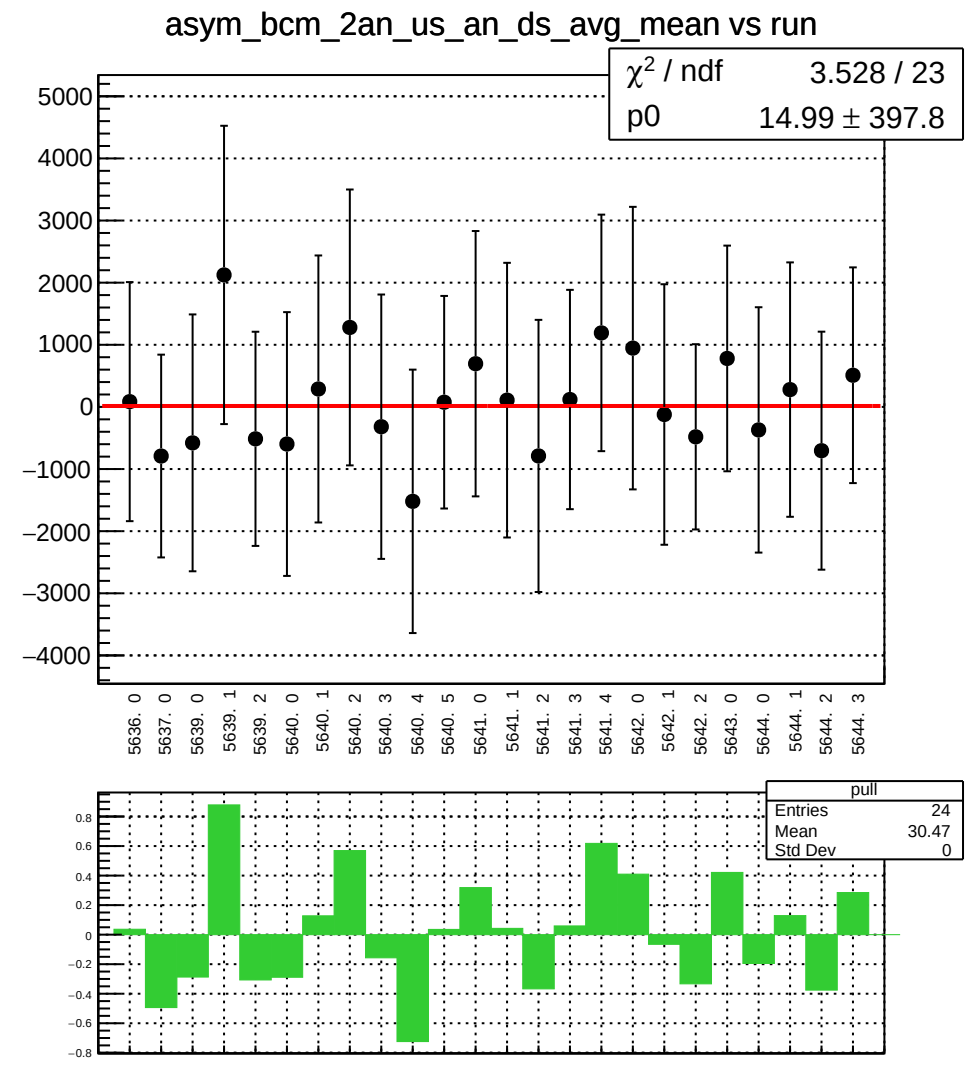
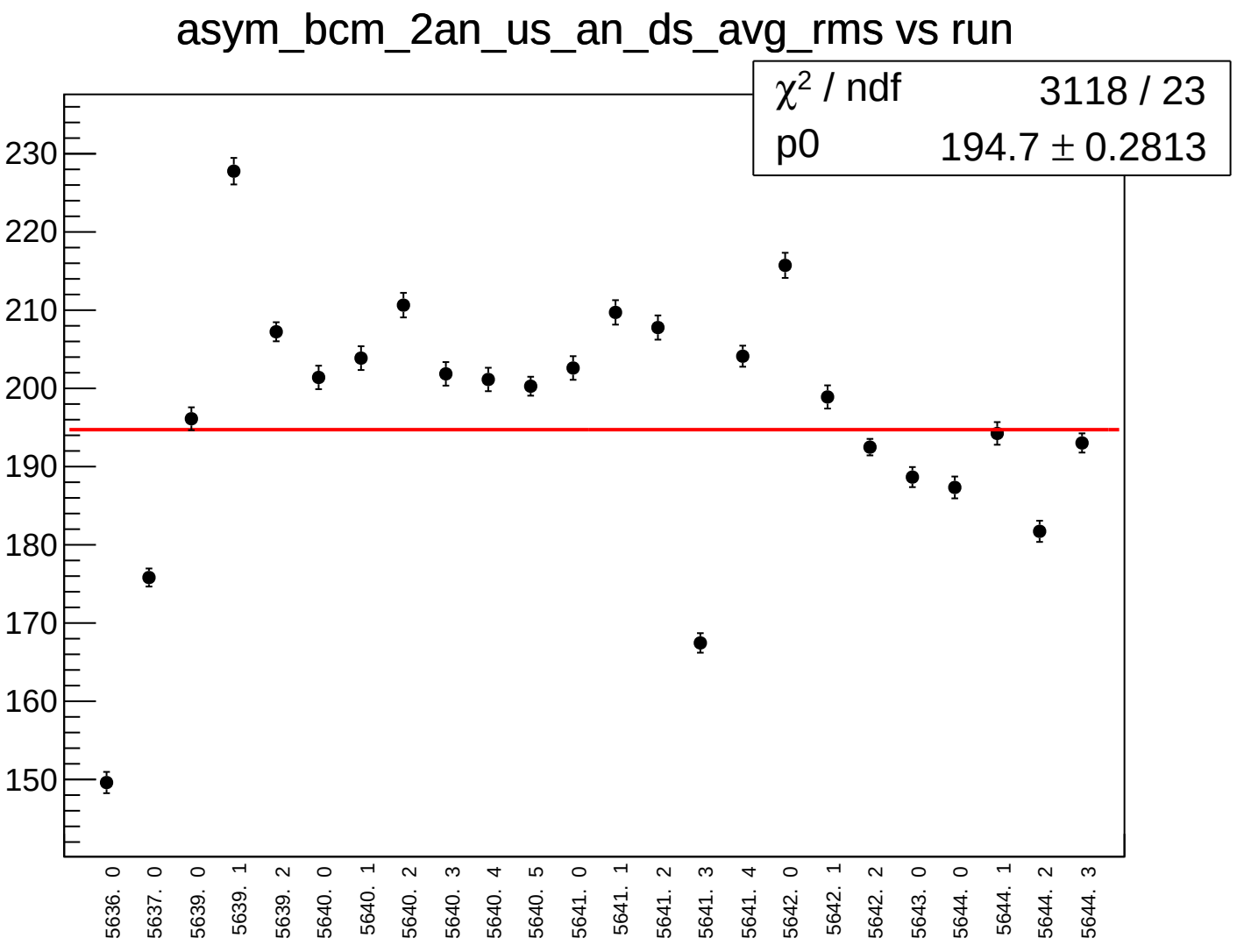
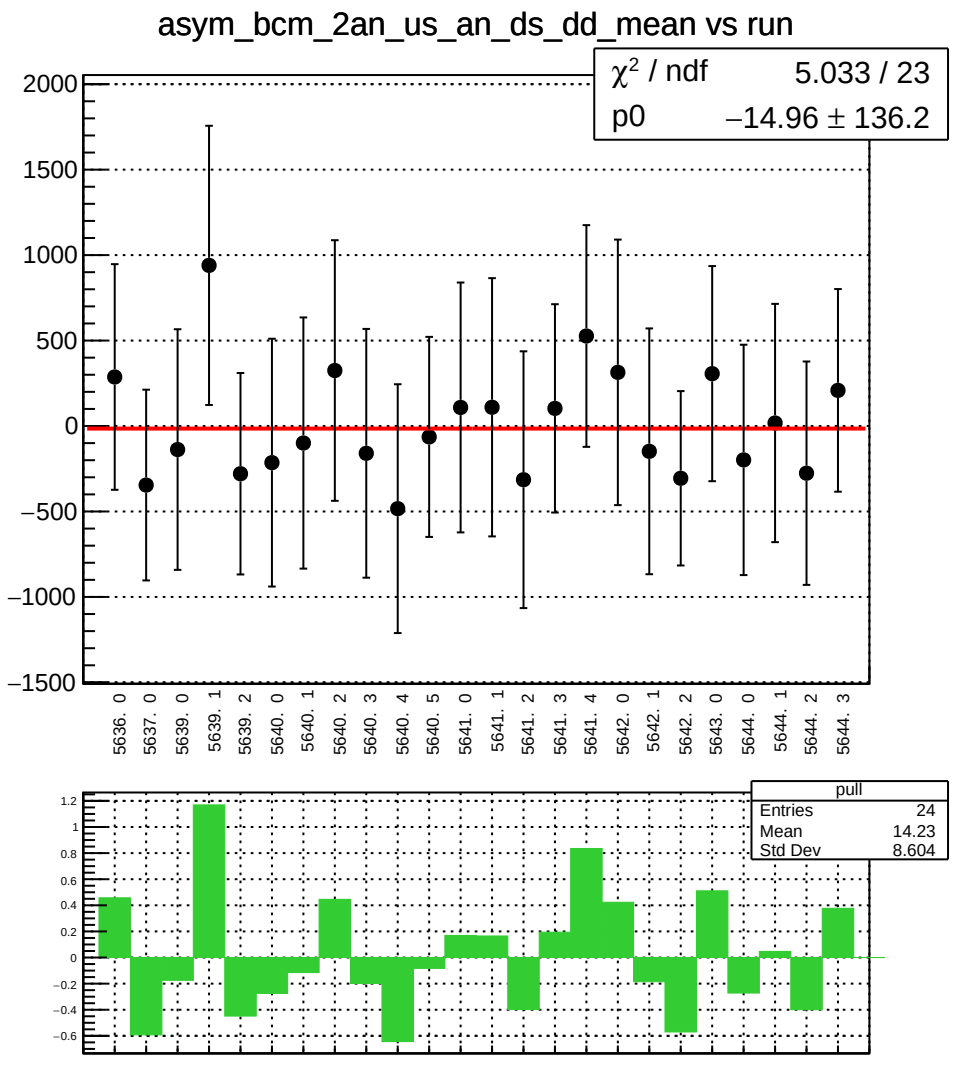
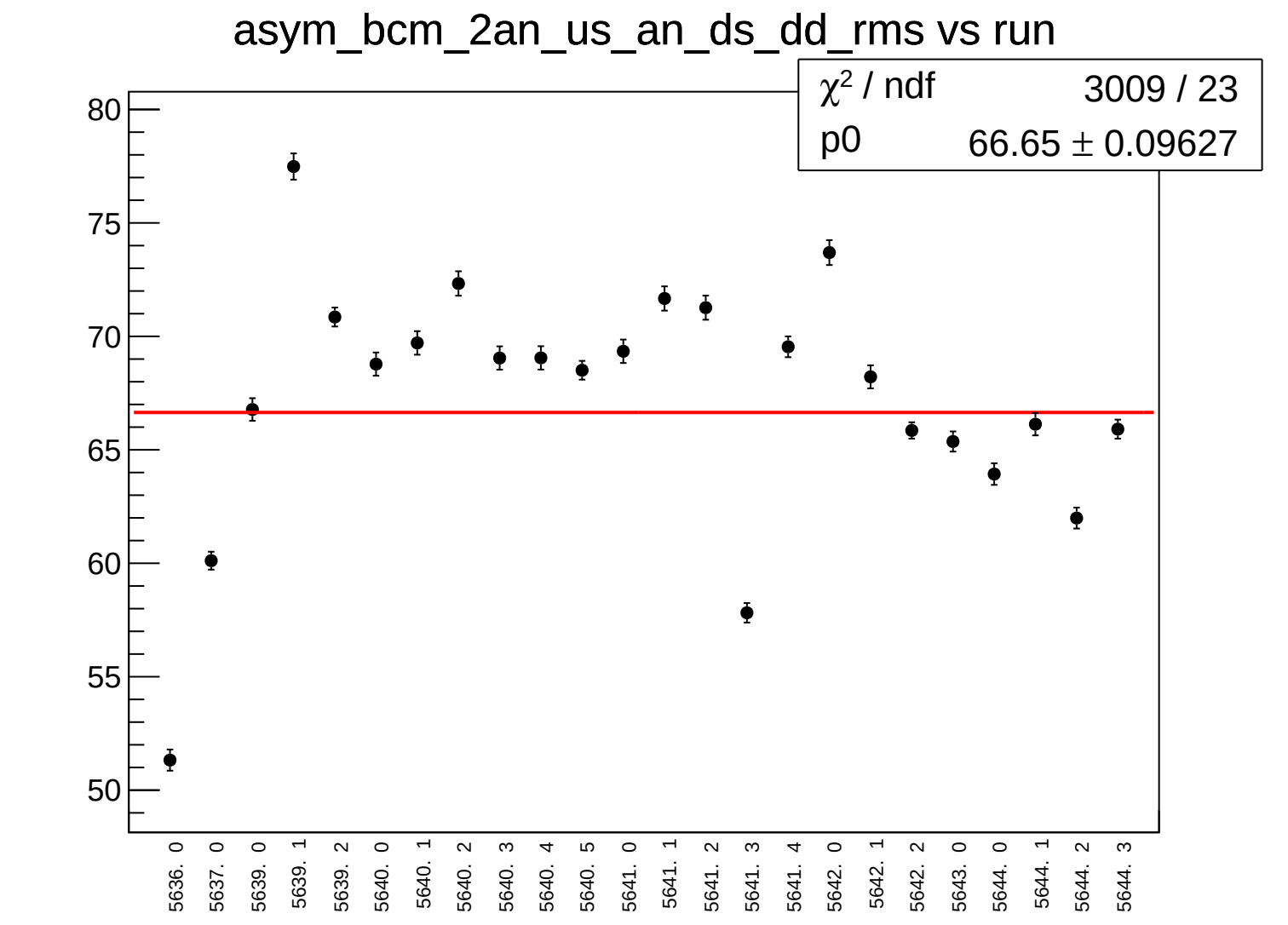
5644. 2
5644. 3


asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 3.528 / 23
p0 14.99 ± 397.8
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 30.47
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean 0.01408
Std Dev 0.3831
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 3118 / 23
p0 194.7 ± 0.2813
230
220
210
200
190
180
170
160
150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 5.033 / 23
p0 −14.96 ± 136.2
2000
1500
1000
500
0
−500
−1000
−1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 14.23
Std Dev 8.604
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 24
Mean 0.01827
Std Dev 0.4576
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 3009 / 23
p0 66.65 ± 0.09627
80
75
70
65
60
55
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
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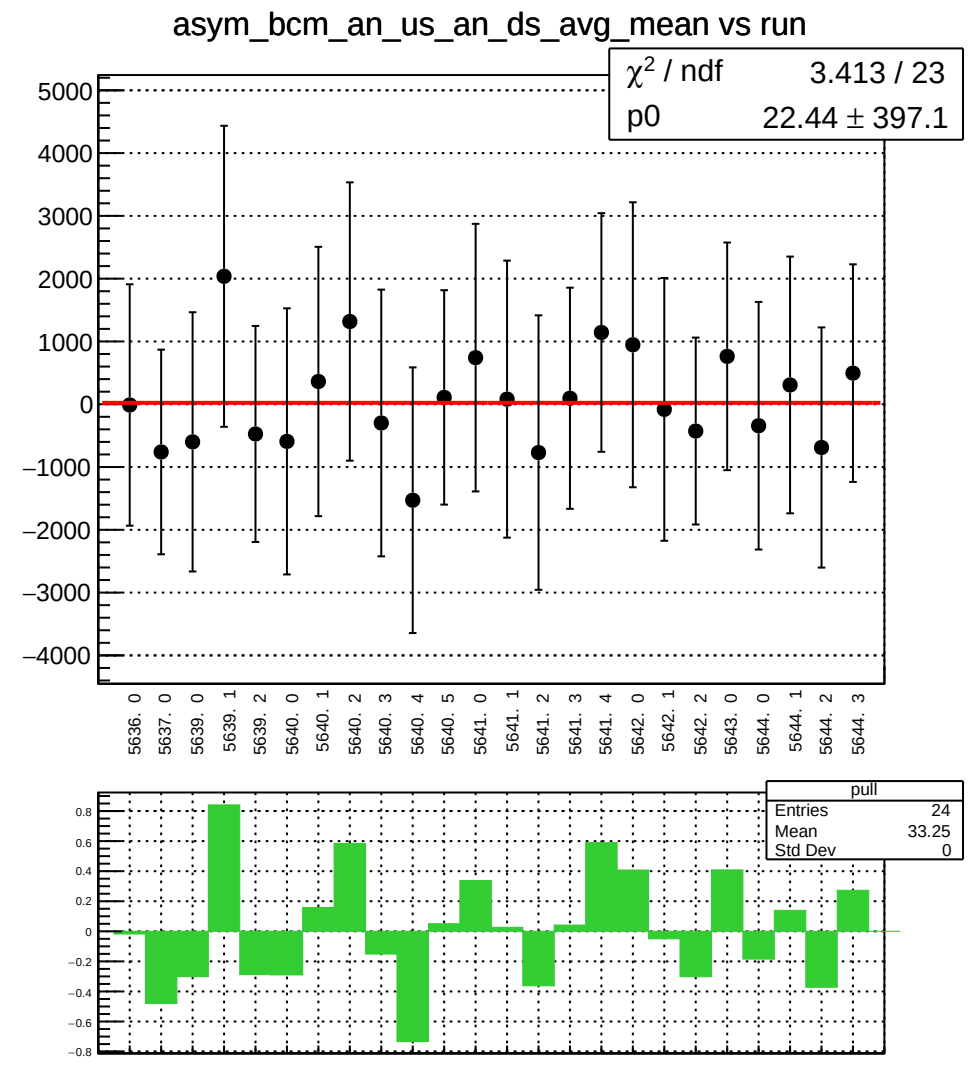
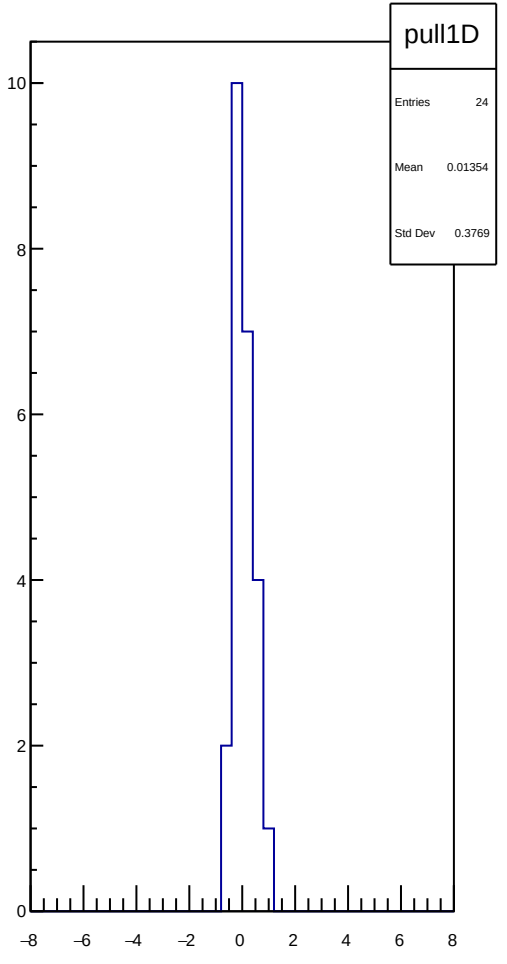
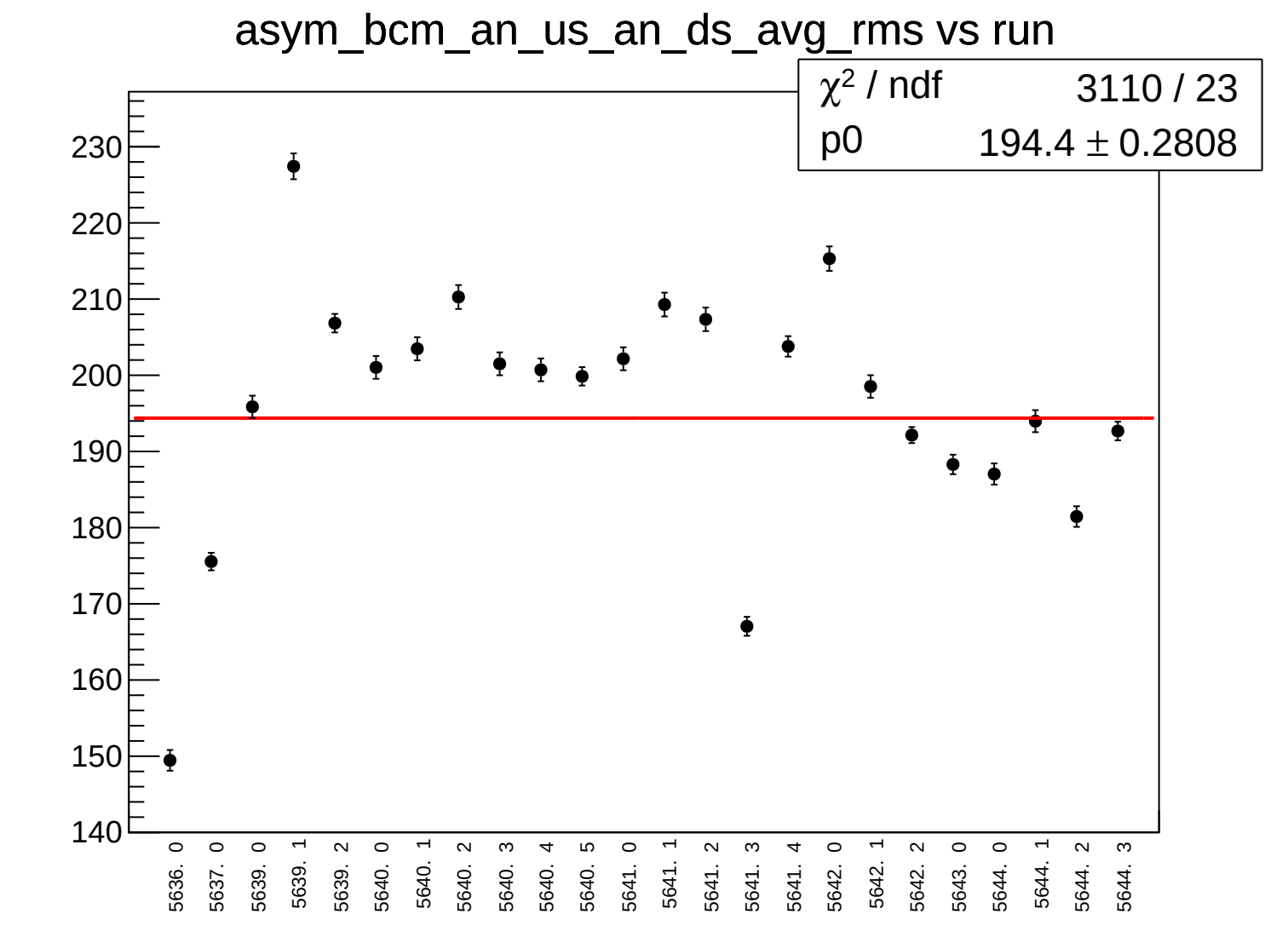
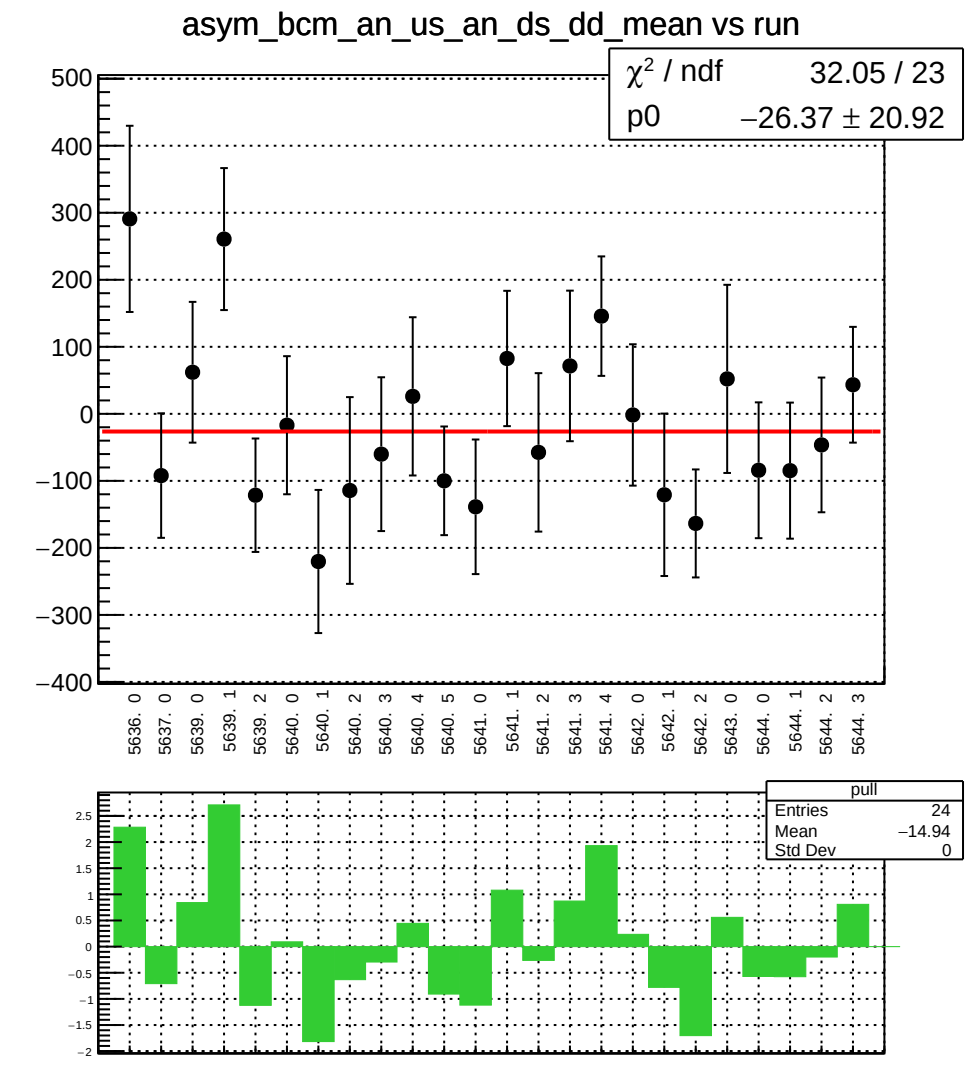
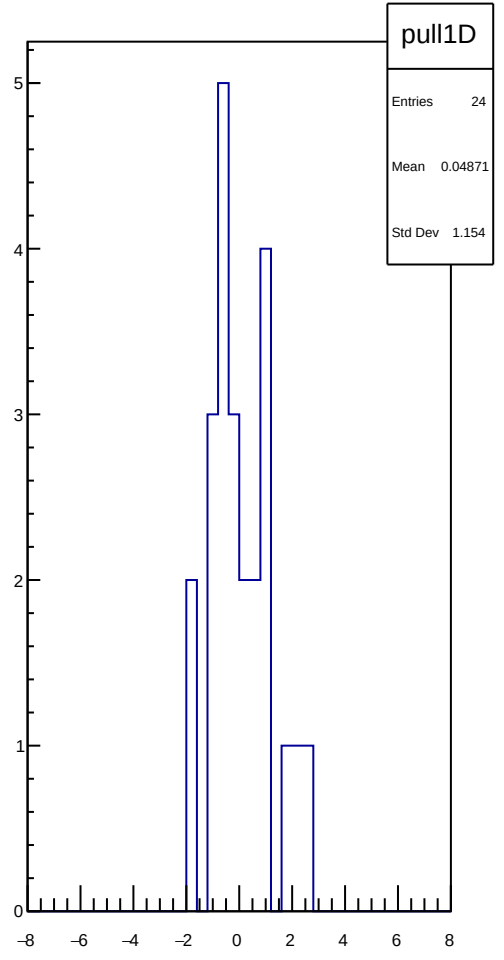
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

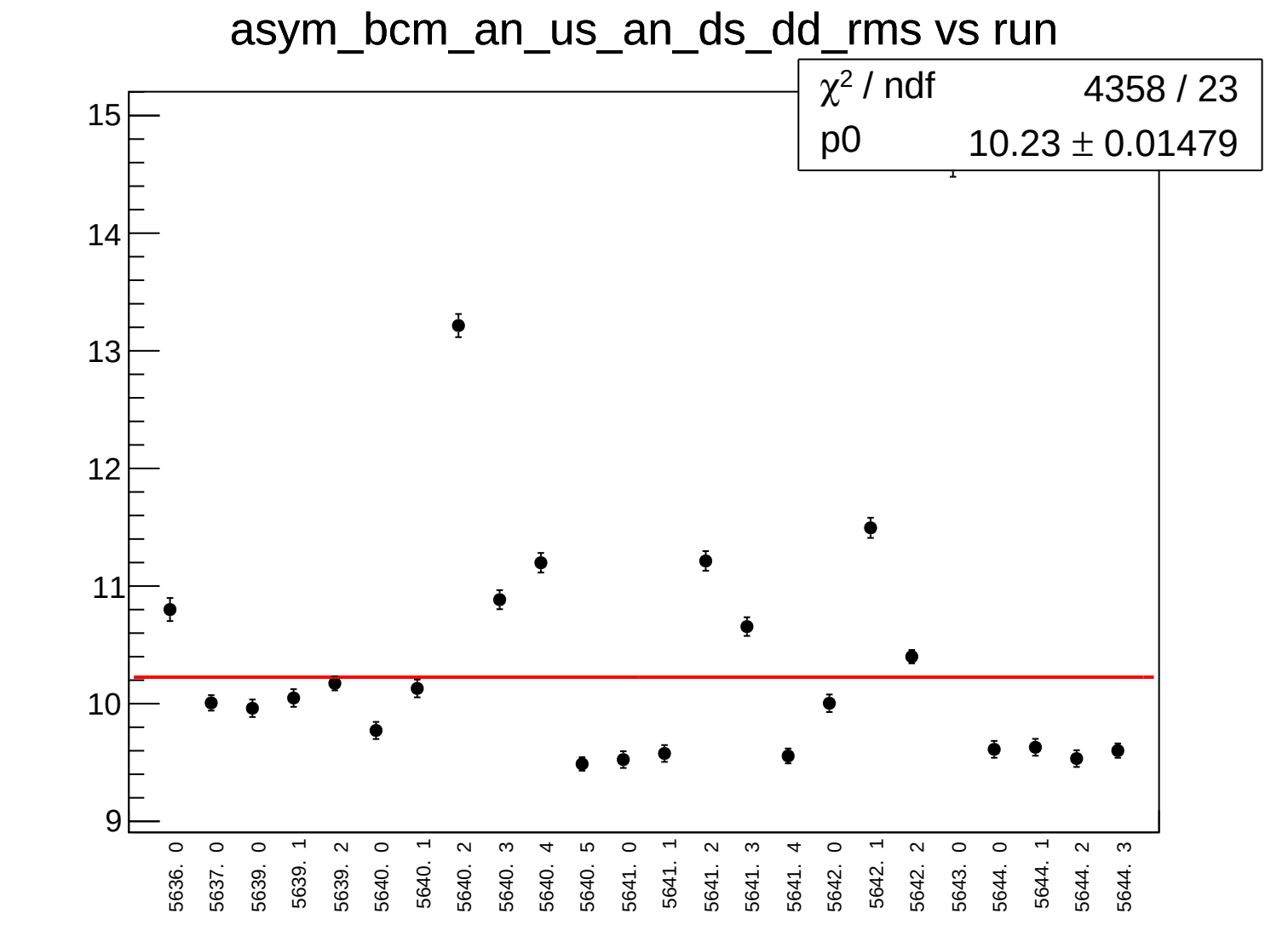

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 3.413 / 23
p0 22.44 ± 397.1
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 33.25
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

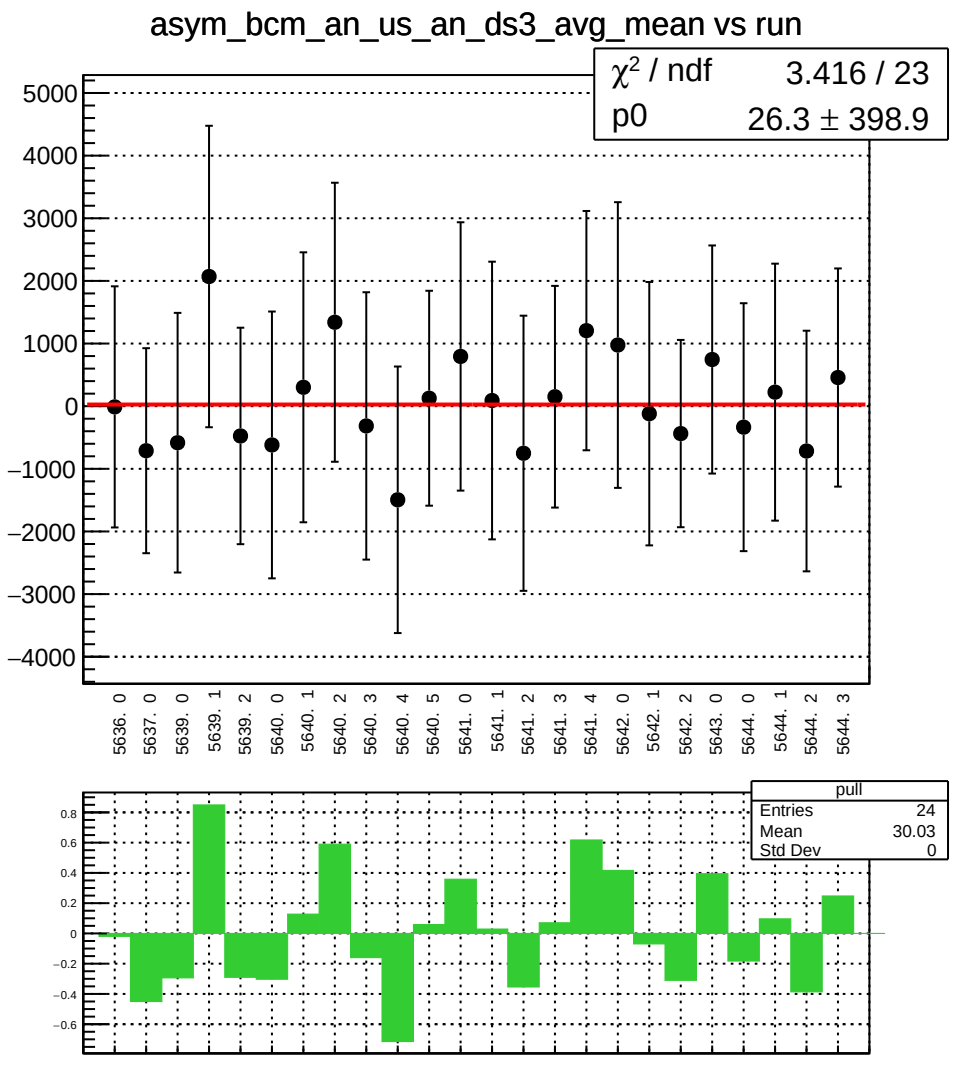

pull1D
Entries 24
Mean 0.01354
Std Dev 0.3769
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

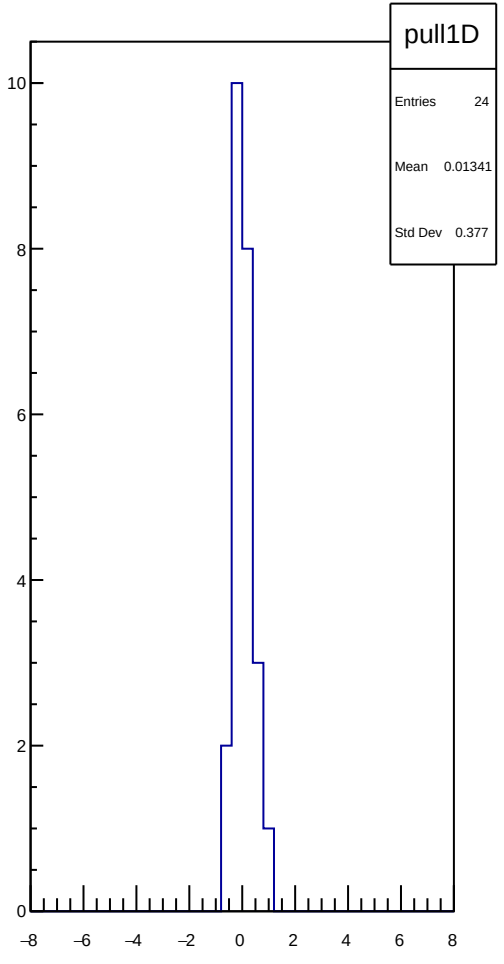

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 3110 / 23
p0 194.4 ± 0.2808
230
220
210
200
190
180
170
160
150
140
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

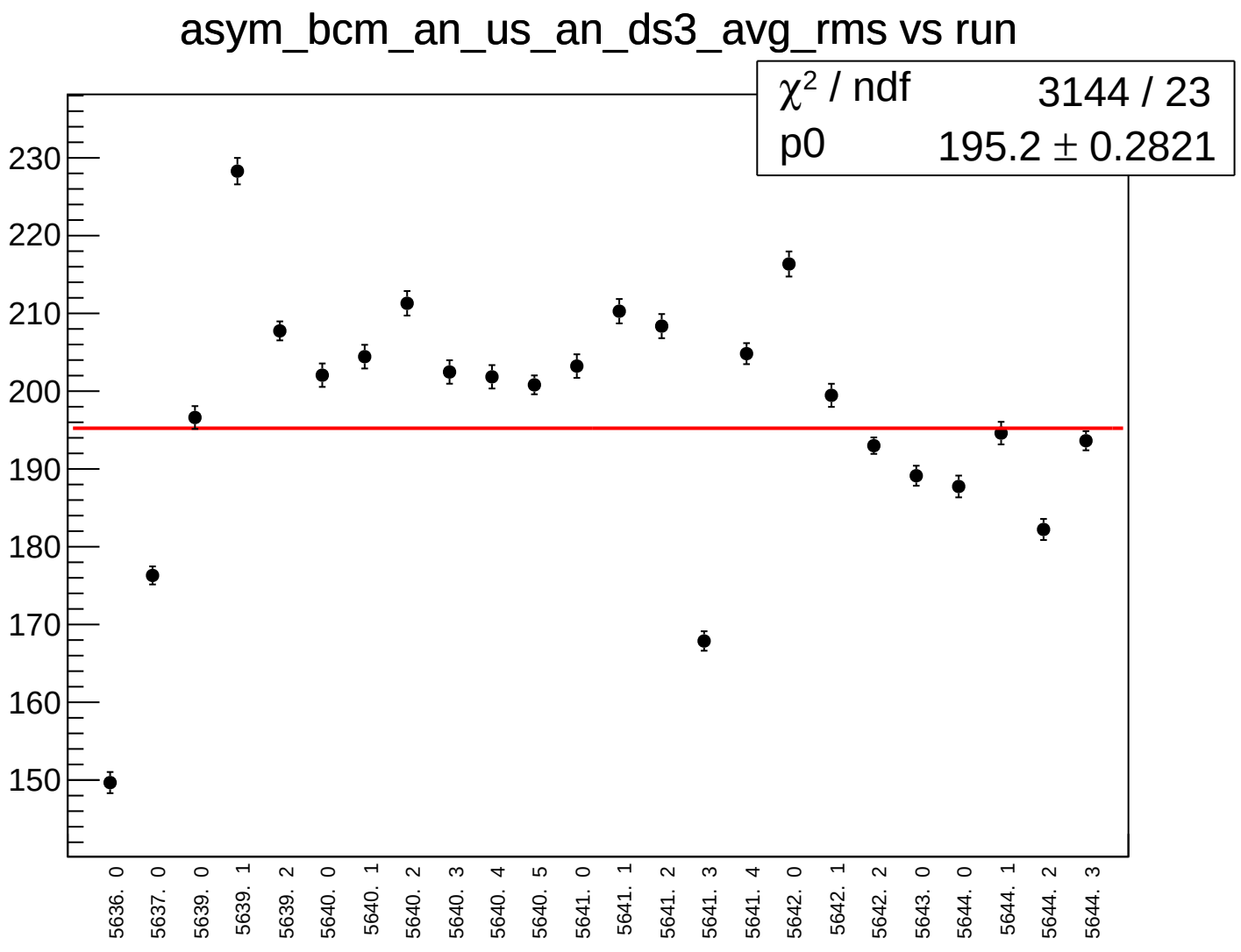

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 32.05 / 23
p0 −26.37 ± 20.92
500
400
300
200
100
0
−100
−200
−300
−400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −14.94
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

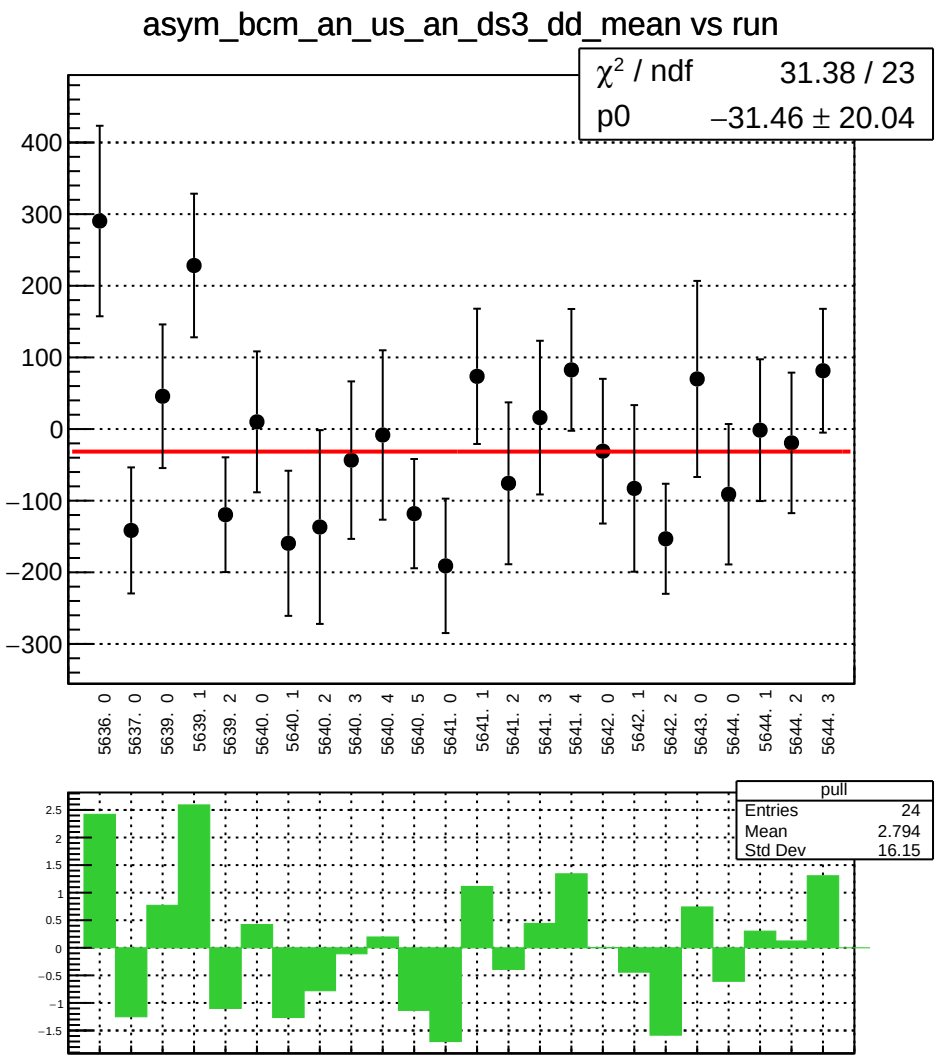

pull1D
Entries 24
Mean 0.04871
Std Dev 1.154
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

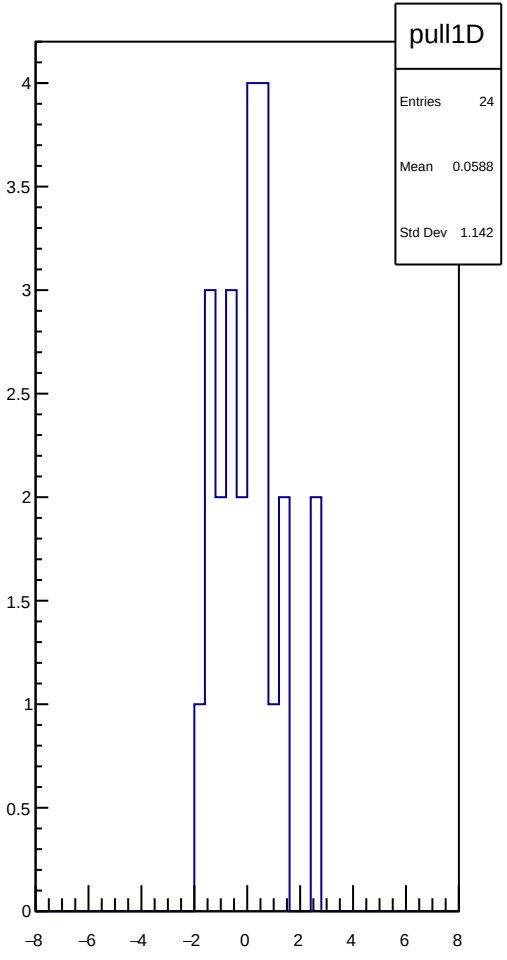

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 4358 / 23
p0 10.23 ± 0.01479
15
14
13
12
11
10
9
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

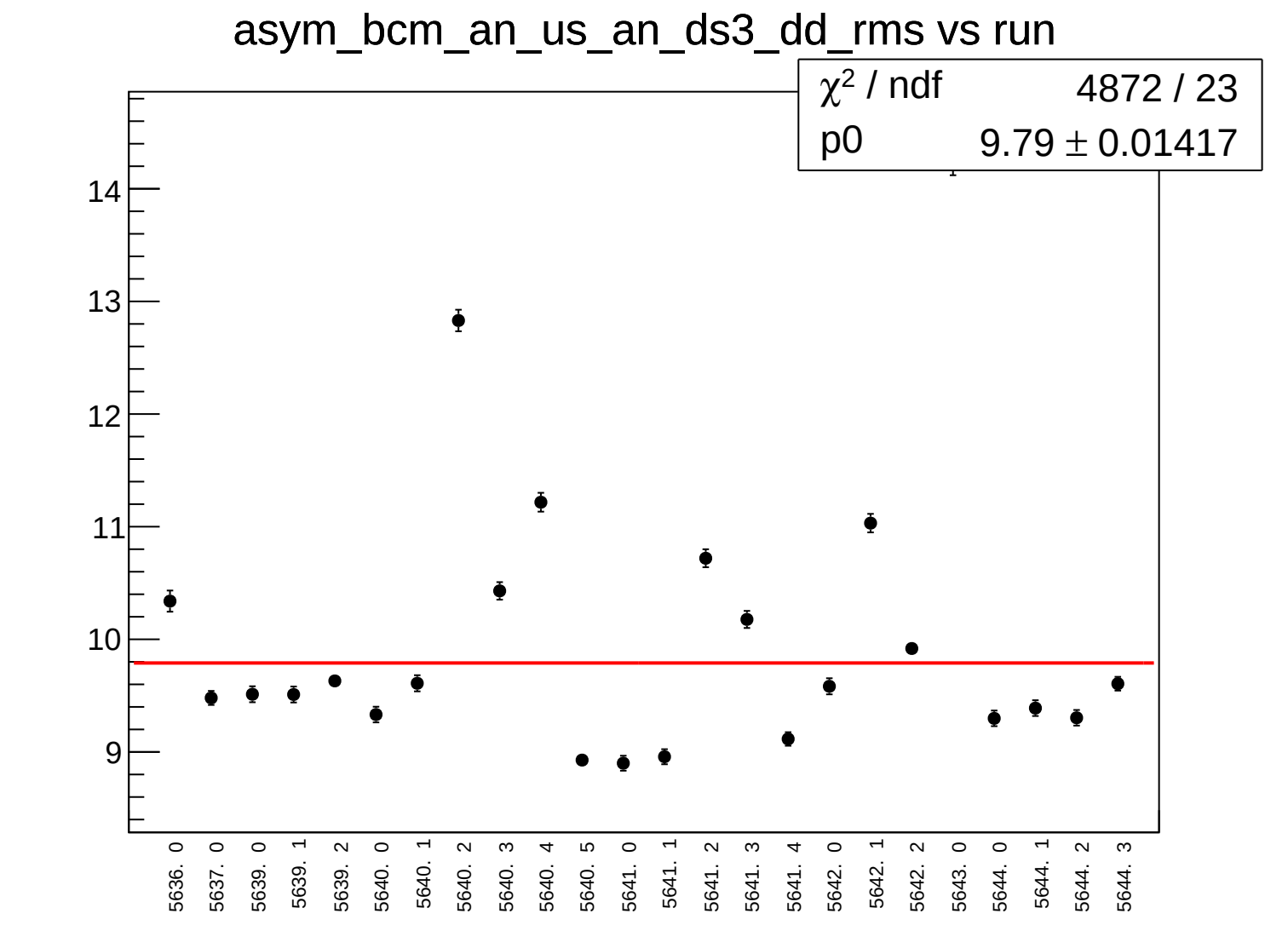

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 3.416 / 23
p0 26.3 ± 398.9
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 30.03
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

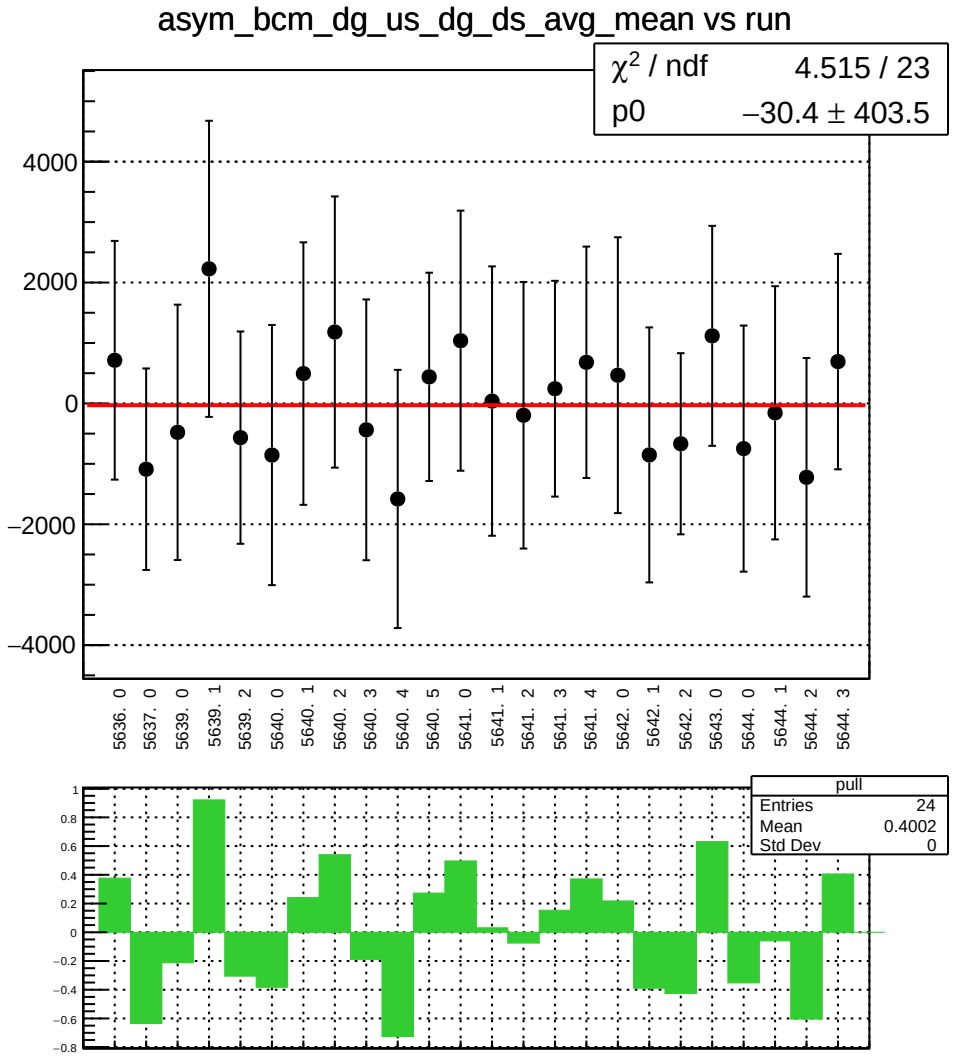

pull1D
Entries 24
Mean 0.01341
Std Dev 0.377
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

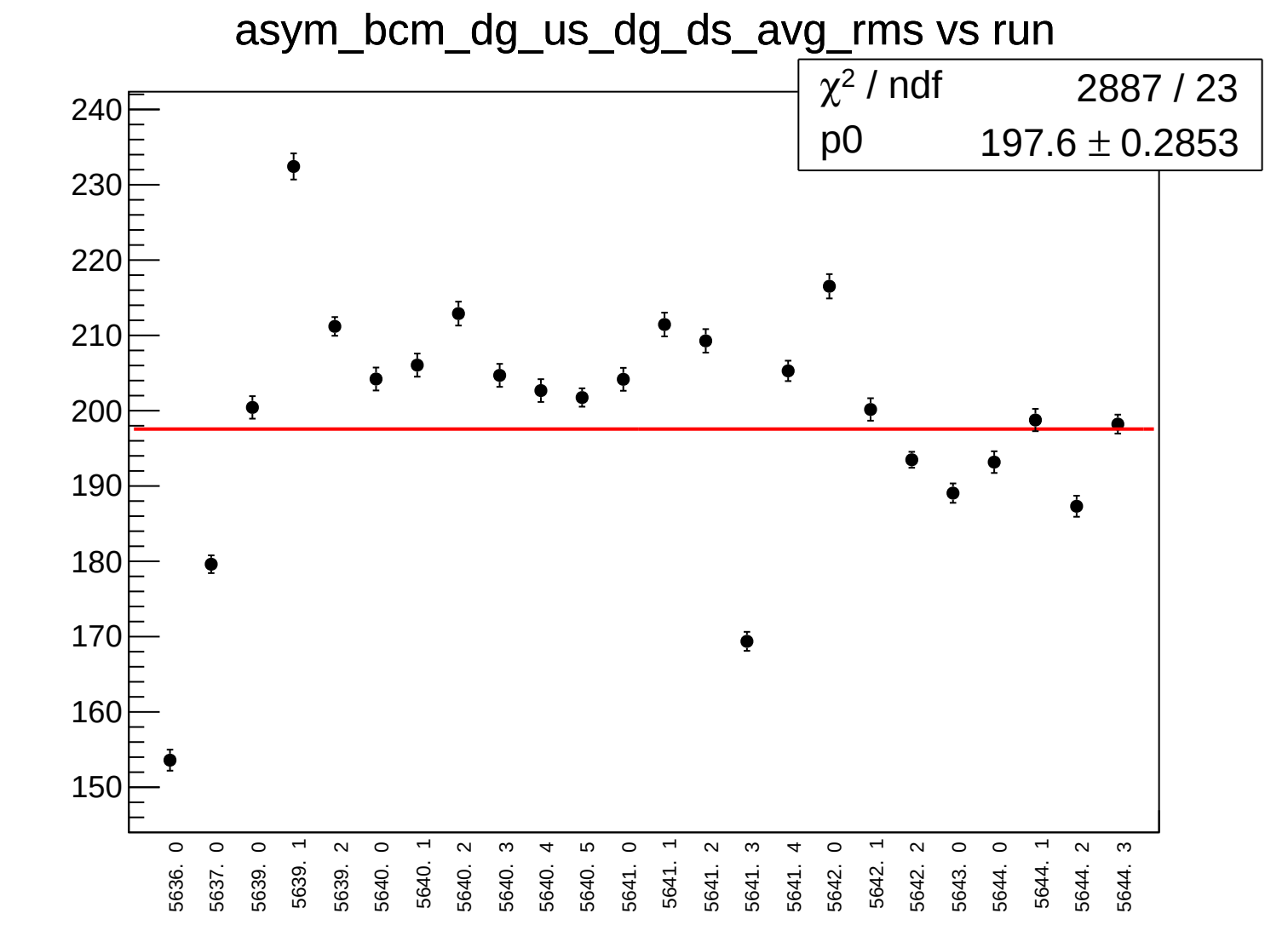

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 3144 / 23
p0 195.2 ± 0.2821
230
220
210
200
190
180
170
160
150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

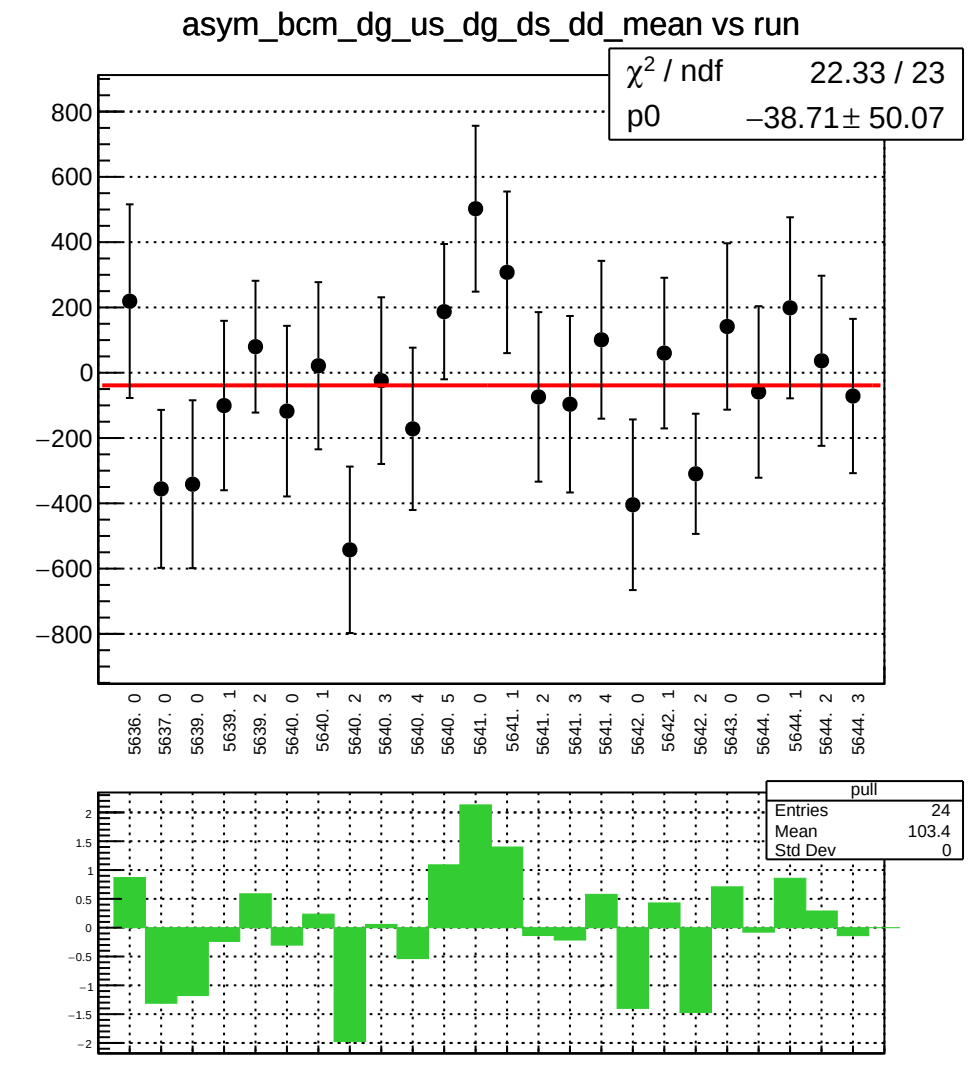

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 31.38 / 23
p0 −31.46 ± 20.04
400
300
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 2.794
Std Dev 16.15
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

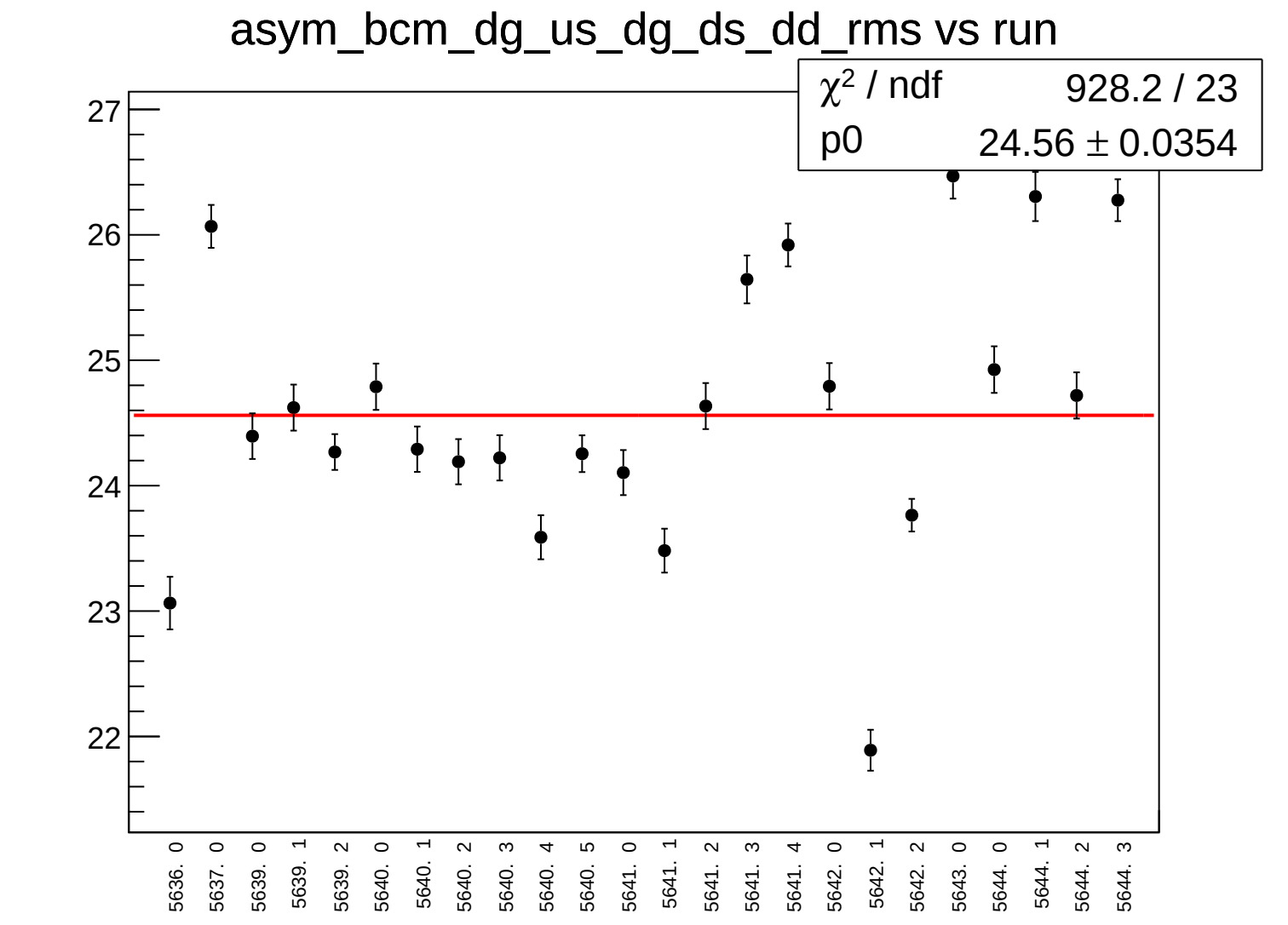

pull1D
Entries 24
Mean 0.0588
Std Dev 1.142
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

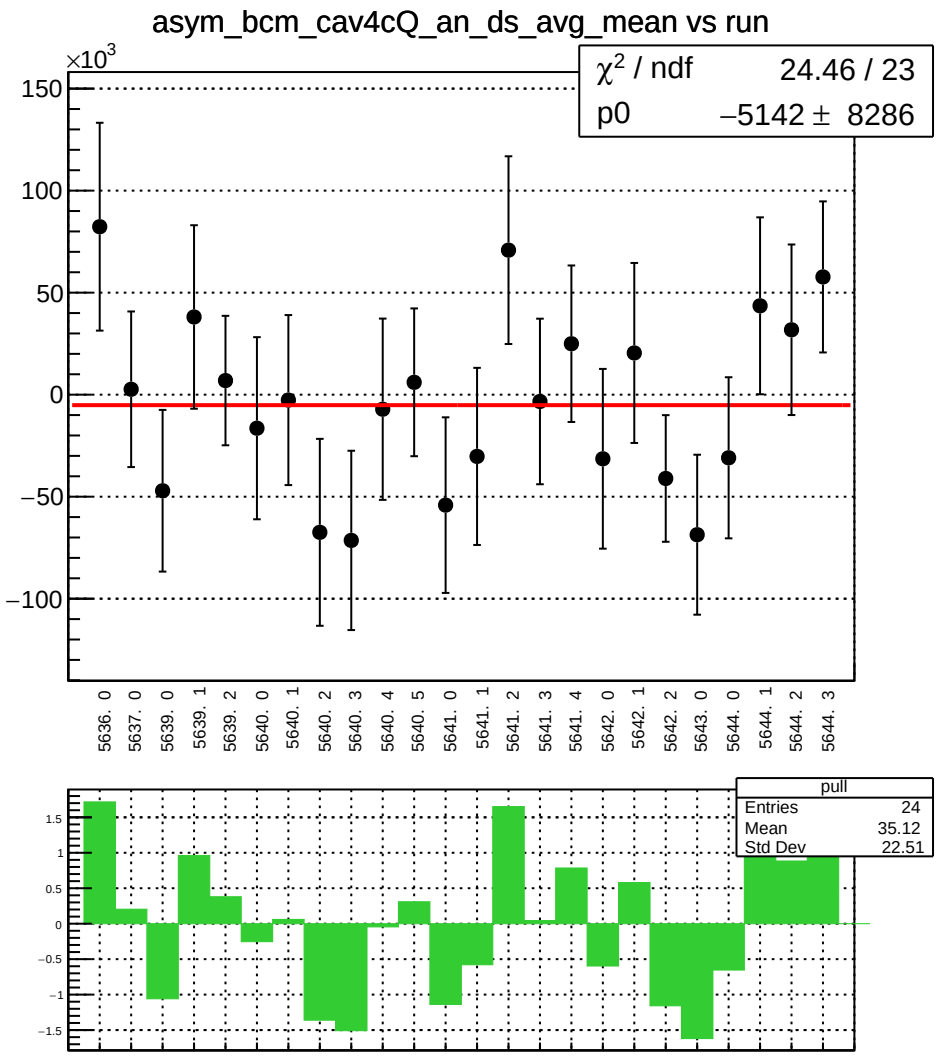

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 4872 / 23
p0 9.79 ± 0.01417
14
13
12
11
10
9
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

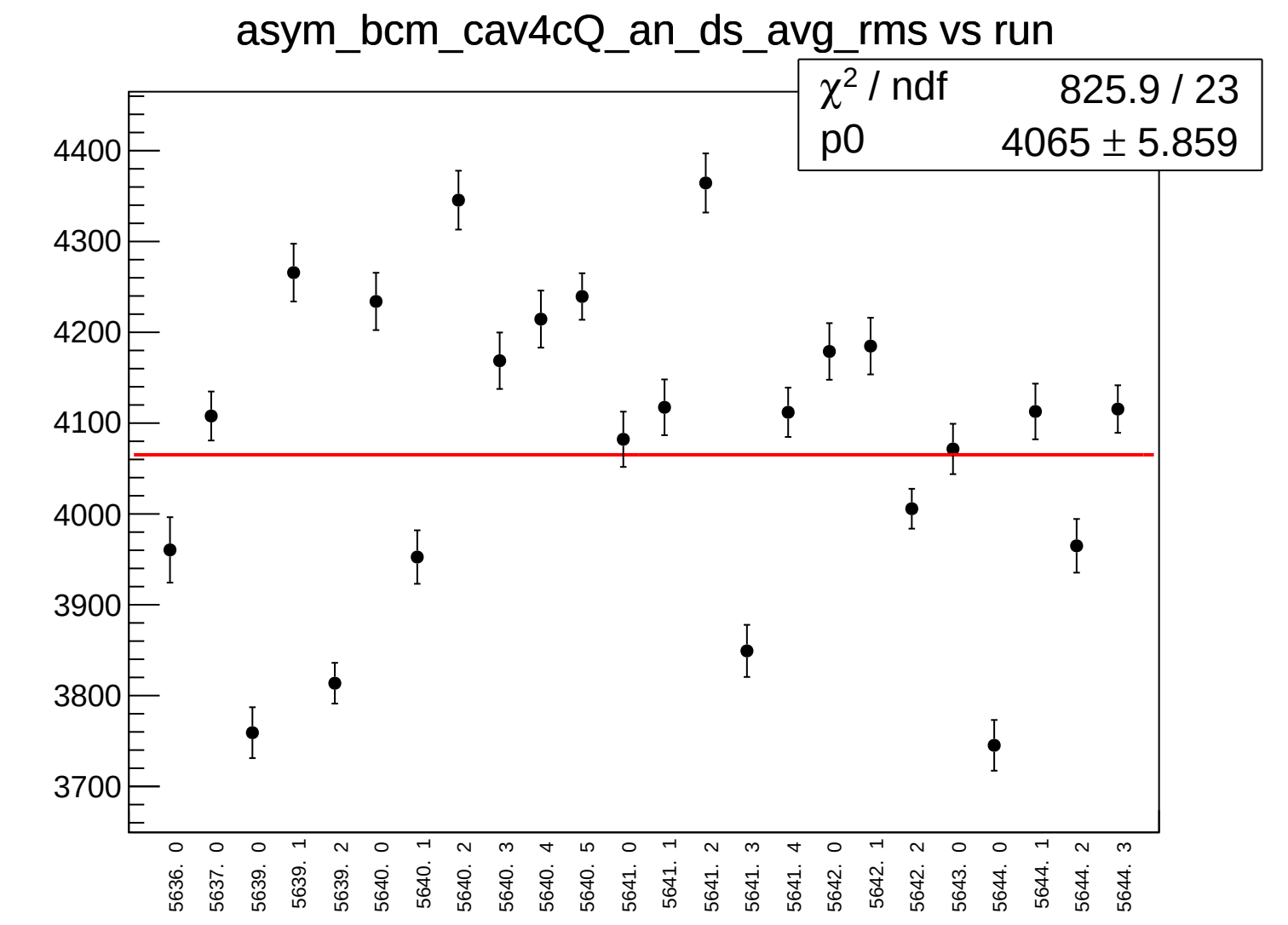

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 4.515 / 23
p0 −30.4 ± 403.5
4000
2000
0
−2000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 0.4002
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean 0.01256
Std Dev 0.4335
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

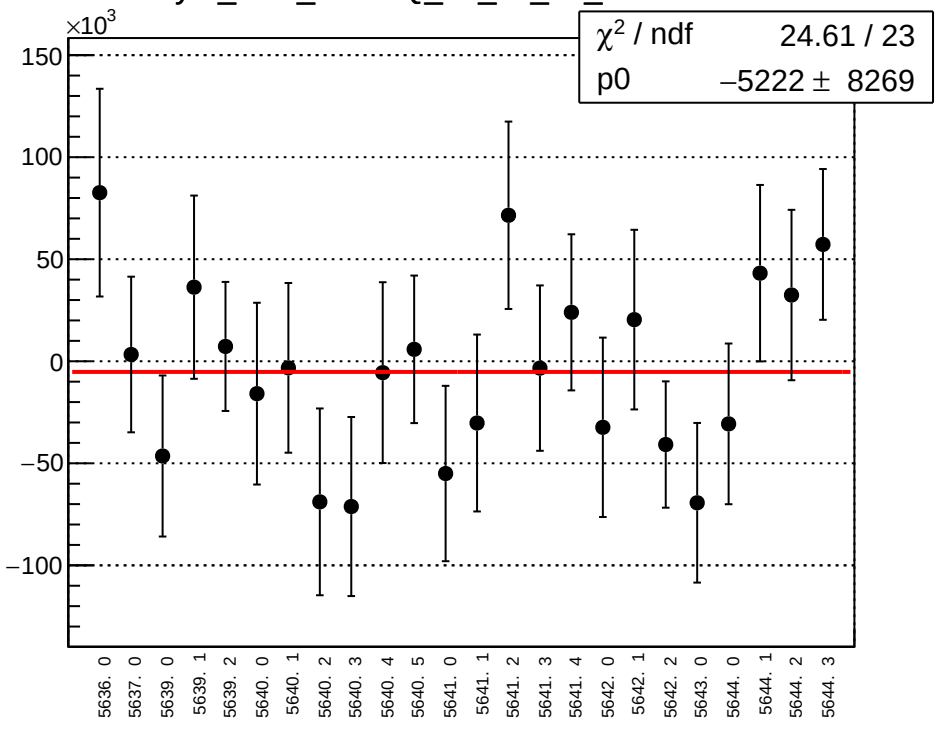

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 2887 / 23
p0 197.6 ± 0.2853
240
230
220
210
200
190
180
170
160
150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

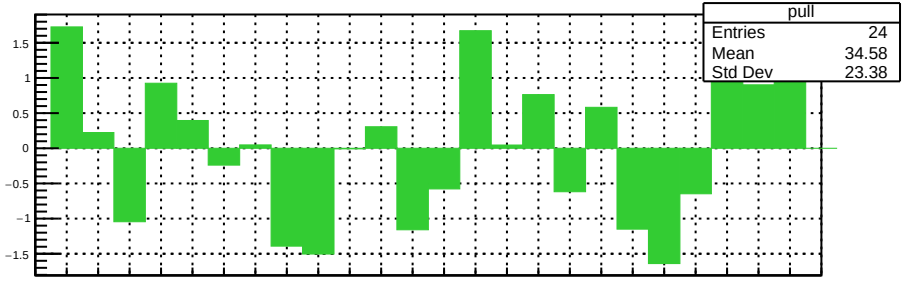

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 22.33 / 23
p0 −38.71 ± 50.07
800
600
400
200
0
−200
−400
−600
−800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 103.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.01062
Std Dev 0.9646
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

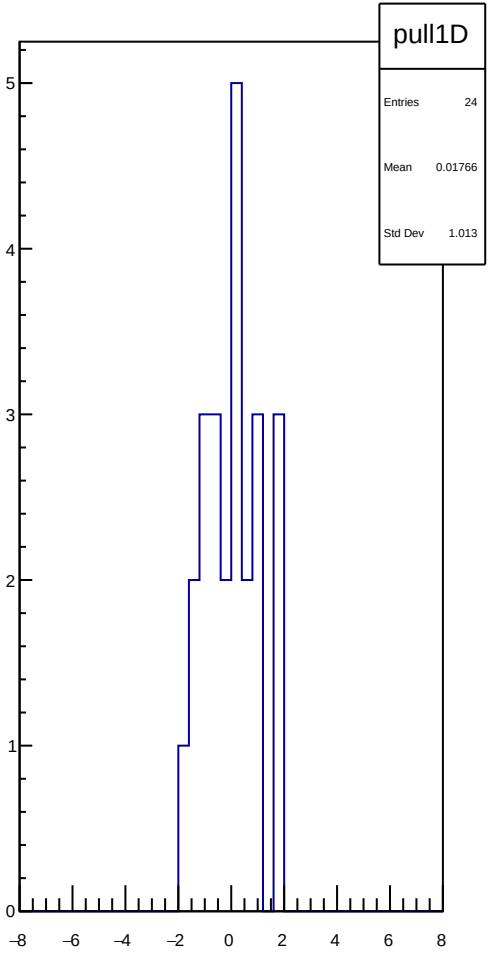

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 928.2 / 23
p0 24.56 ± 0.0354
27
26
25
24
23
22
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

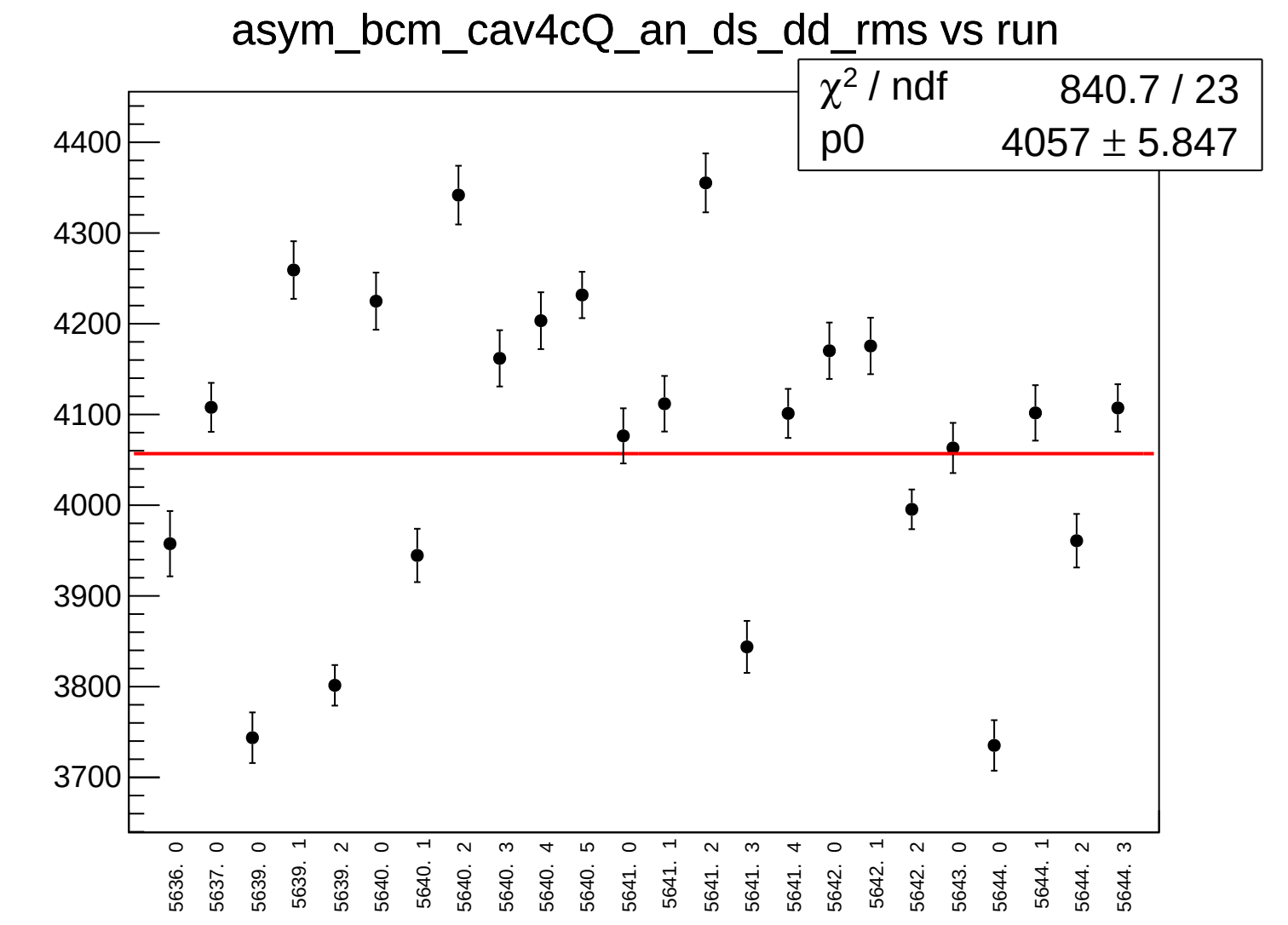

asym_bcm_cav4cQ_an_ds_avg_mean vs run
×10^3
χ² / ndf 24.46 / 23
p0 −5142 ± 8286
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 35.12
Std Dev 22.51
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.01782
Std Dev 1.009
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

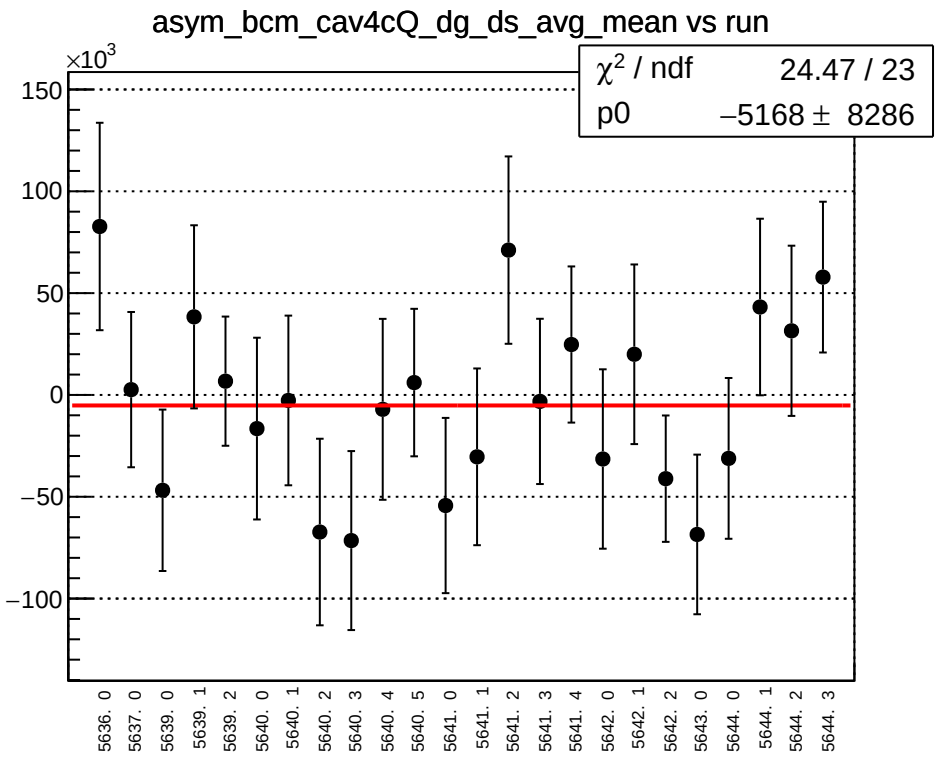

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 825.9 / 23
p0 4065 ± 5.859
4400
4300
4200
4100
4000
3900
3800
3700
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

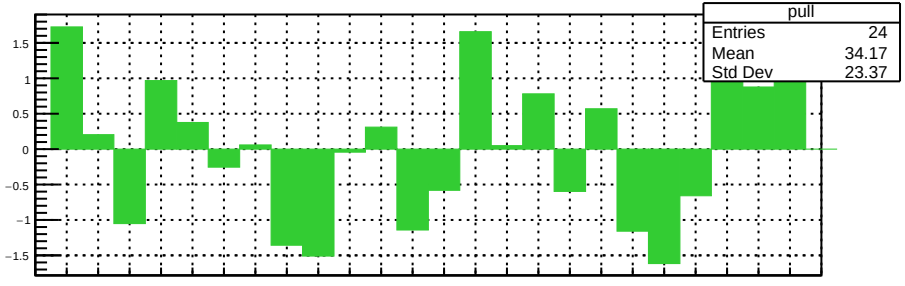

asym_bcm_cav4cQ_an_ds_dd_mean vs run
×10^3
χ² / ndf 24.61 / 23
p0 −5222 ± 8269
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

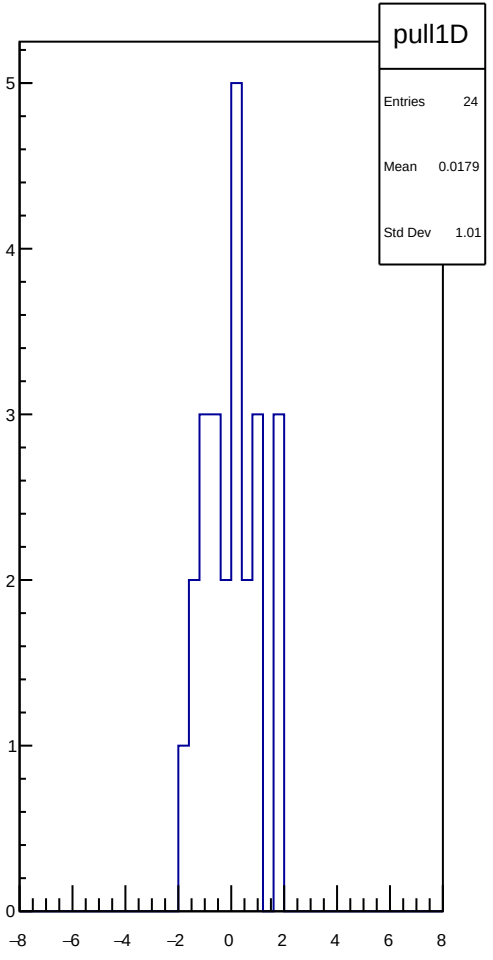

pull
Entries 24
Mean 34.58
Std Dev 23.38
1.5
1
0.5
0
−0.5
−1
−1.5

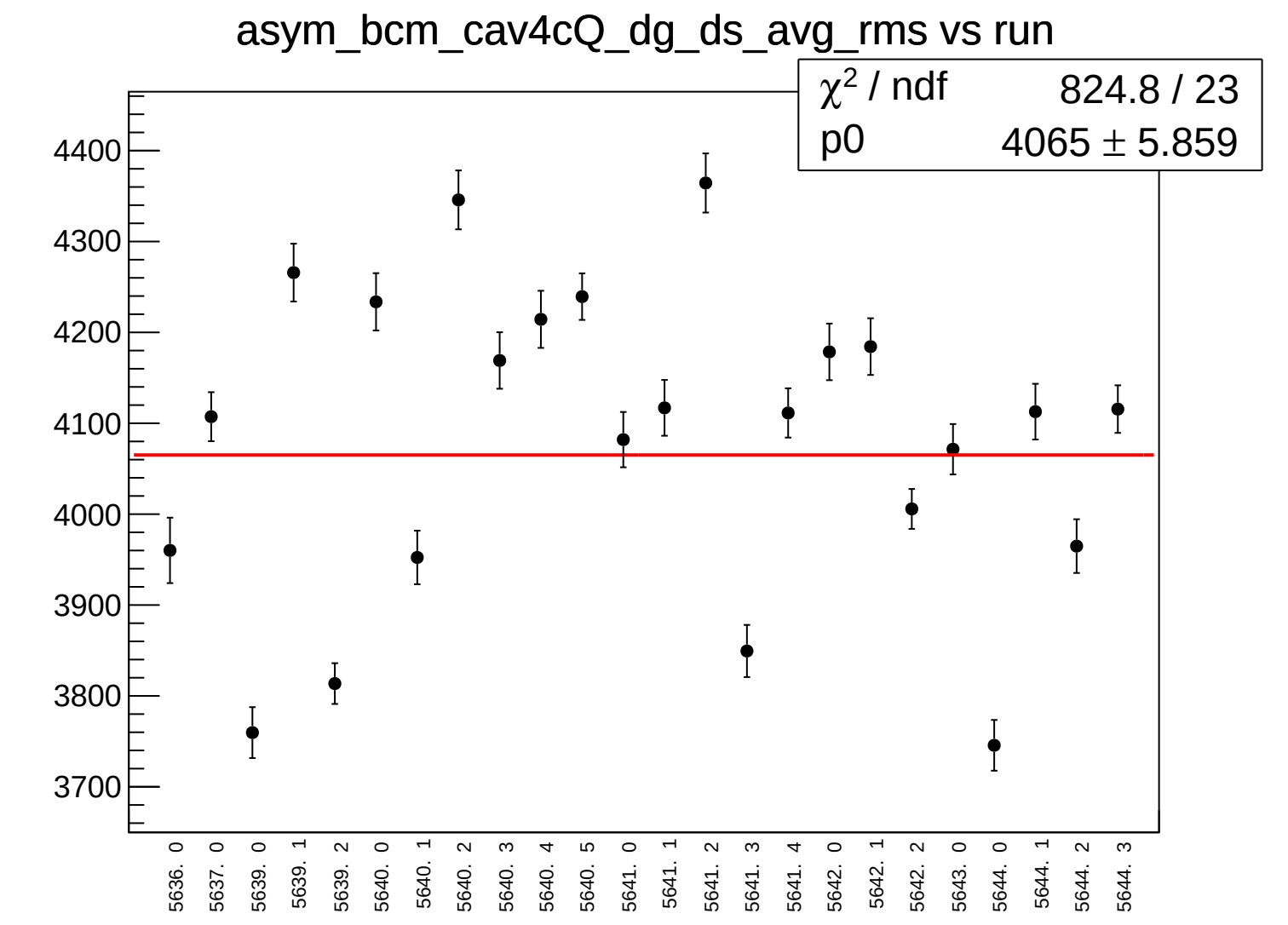

pull1D
Entries 24
Mean 0.01766
Std Dev 1.013
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

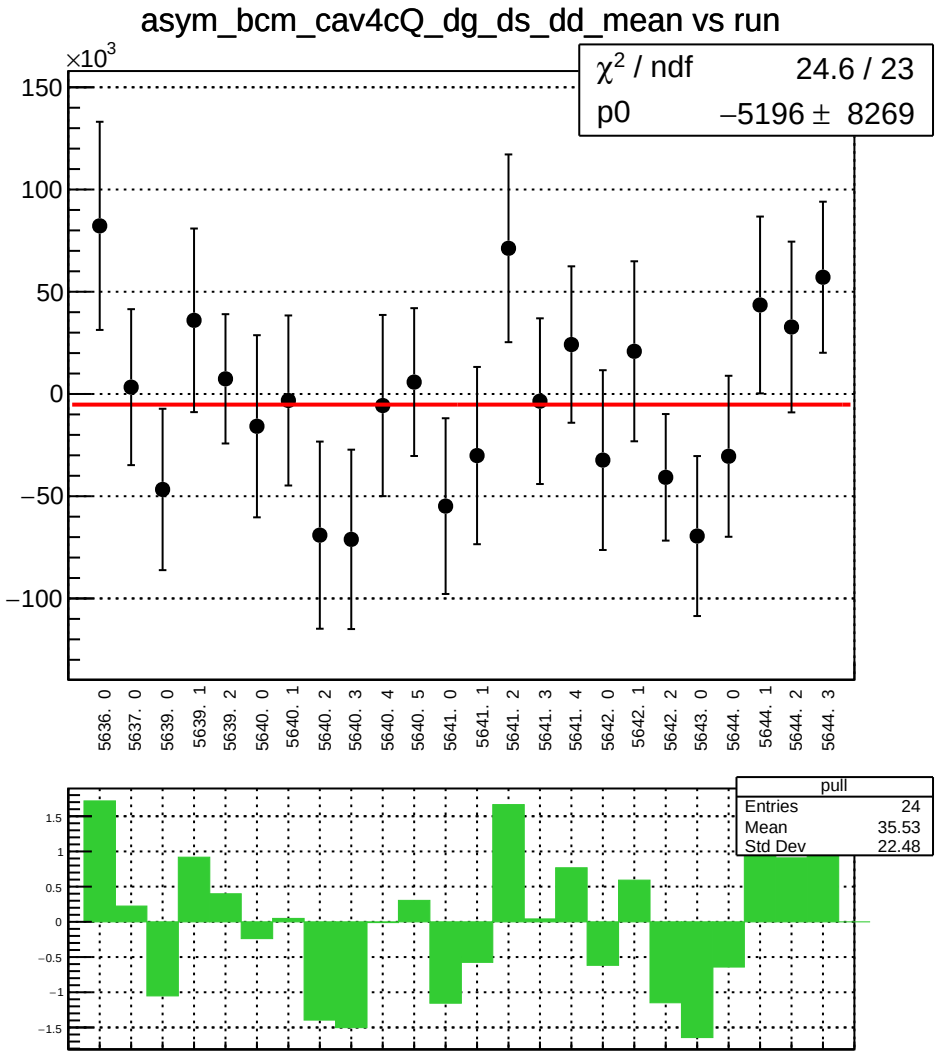

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 840.7 / 23
p0 4057 ± 5.847
4400
4300
4200
4100
4000
3900
3800
3700
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

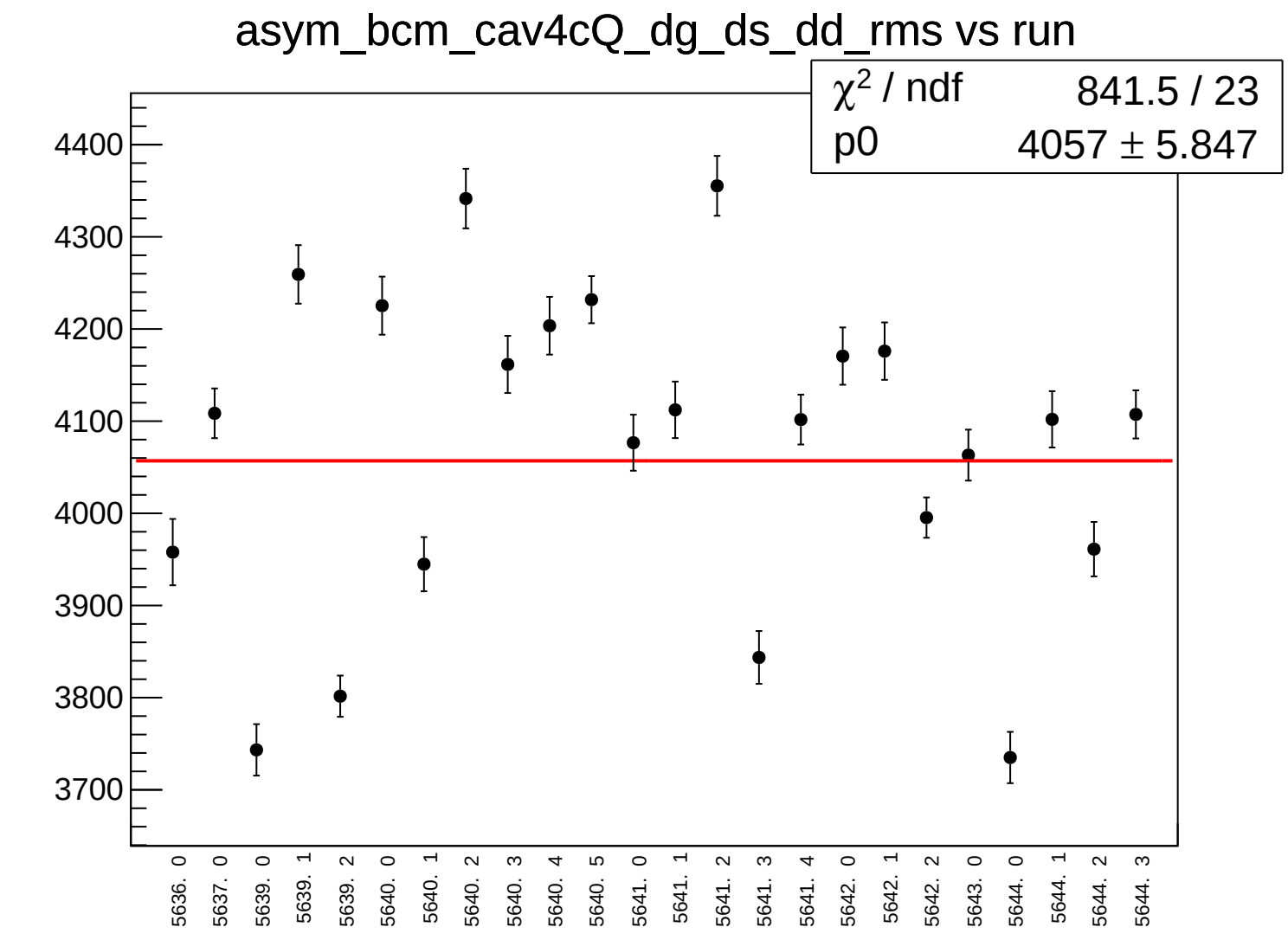

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
×10^3
χ² / ndf 24.47 / 23
p0 −5168 ± 8286
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

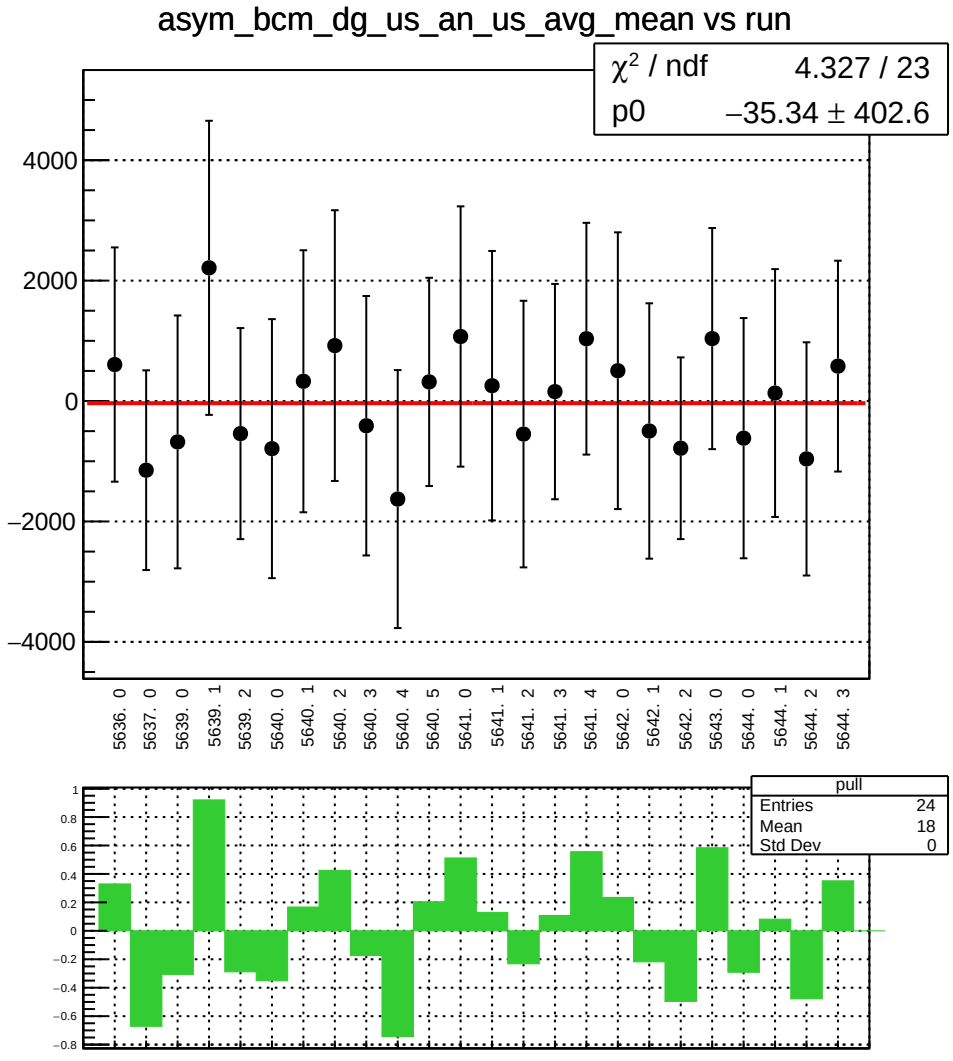

pull
Entries 24
Mean 34.17
Std Dev 23.37
1.5
1
0.5
0
−0.5
−1
−1.5

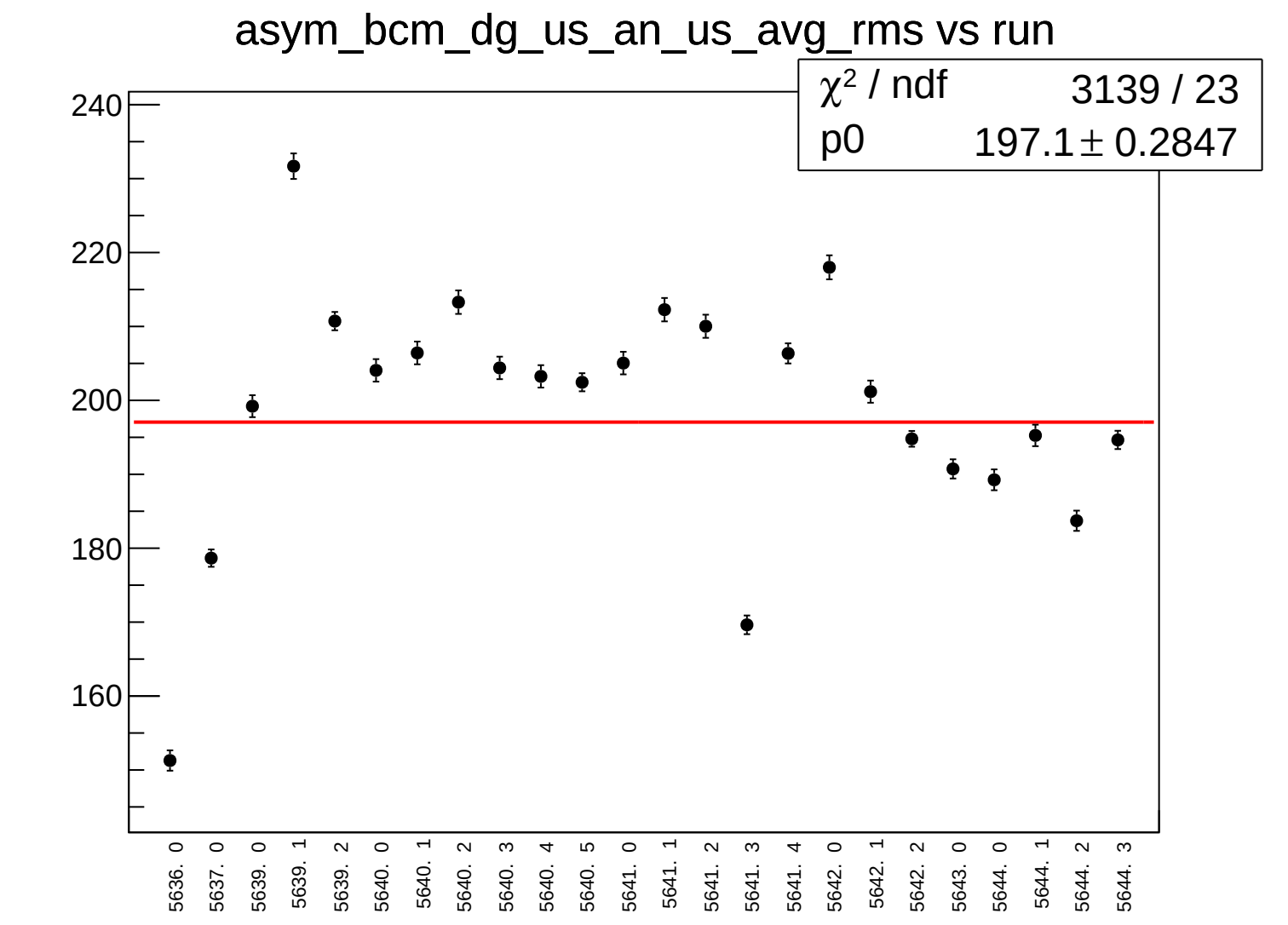

pull1D
Entries 24
Mean 0.0179
Std Dev 1.01
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

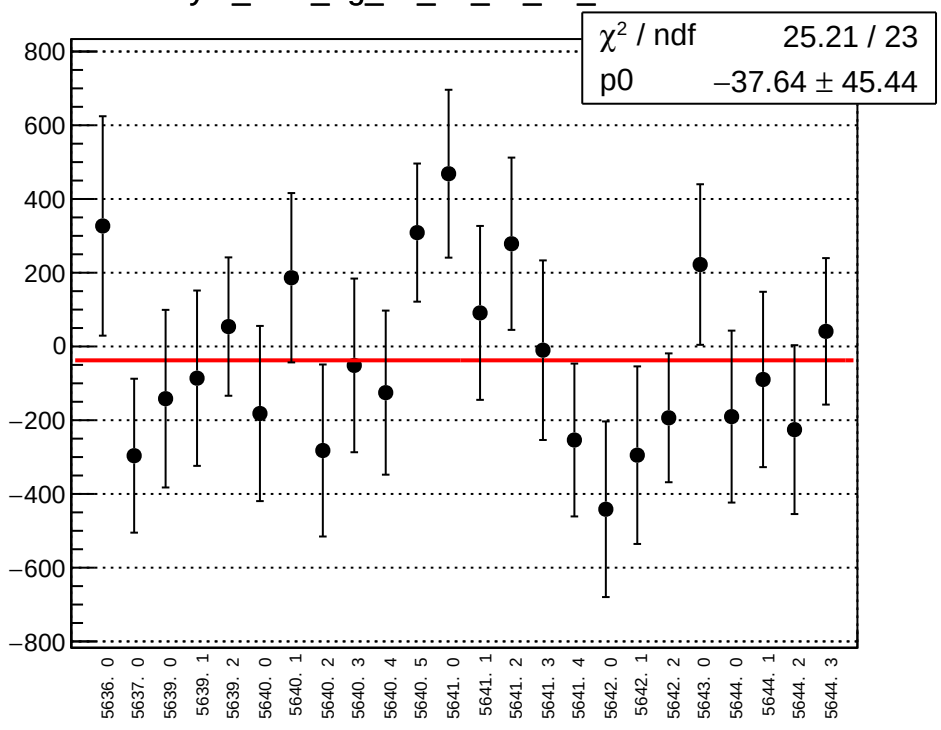

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 824.8 / 23
p0 4065 ± 5.859
4400
4300
4200
4100
4000
3900
3800
3700
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

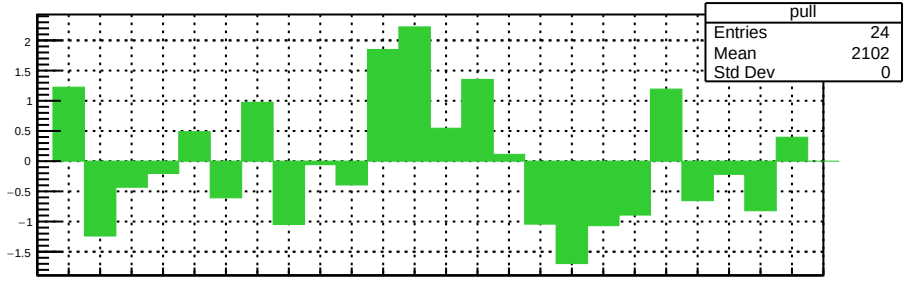

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
×10^3
χ² / ndf 24.6 / 23
p0 −5196 ± 8269
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 35.53
Std Dev 22.48
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.01759
Std Dev 1.012
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

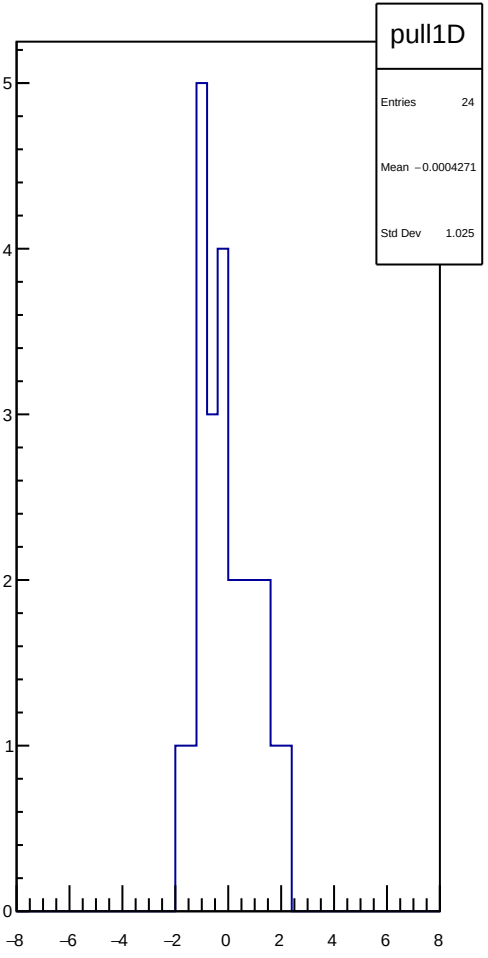

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 841.5 / 23
p0 4057 ± 5.847
4400
4300
4200
4100
4000
3900
3800
3700
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

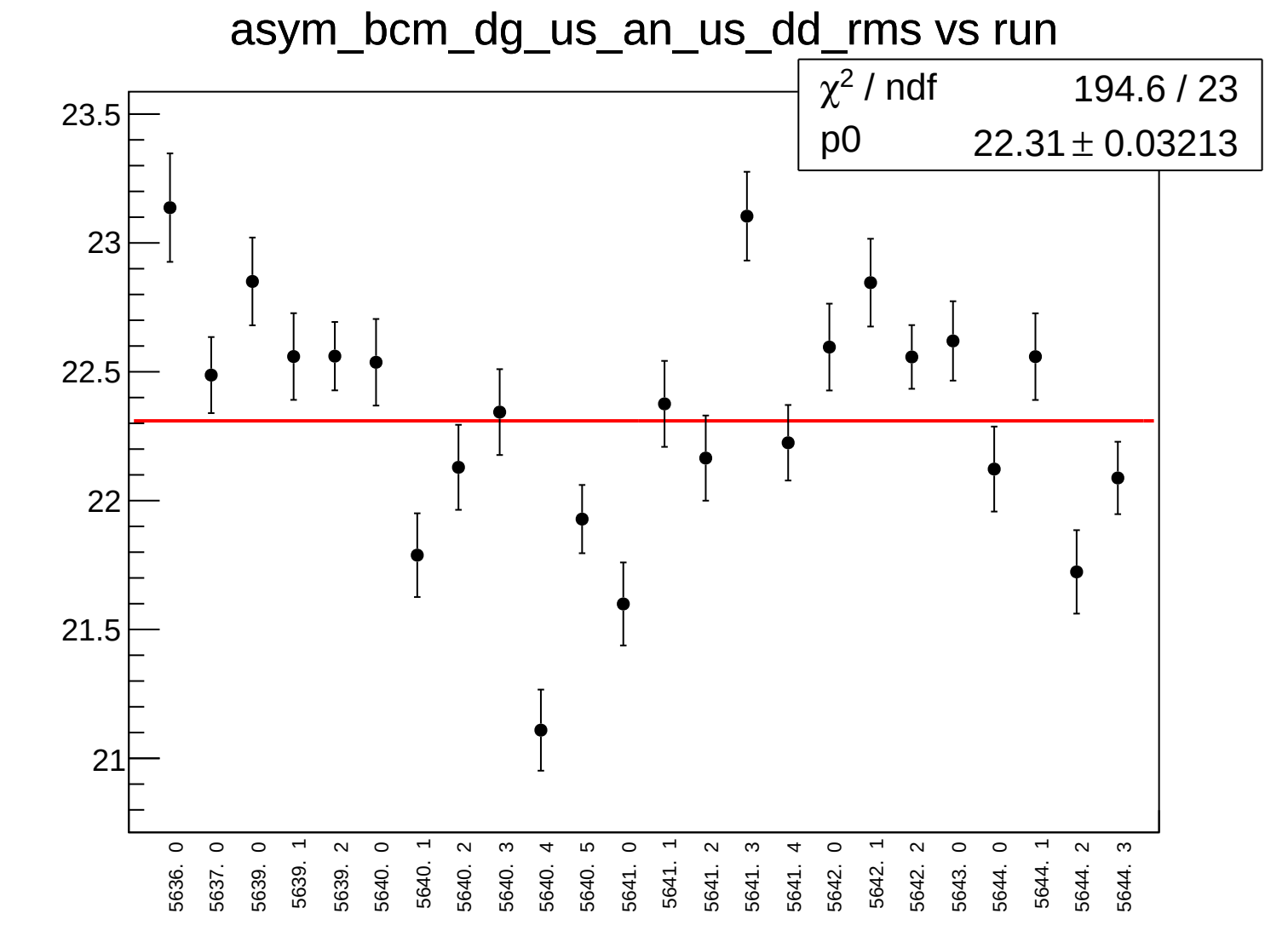

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 4.327 / 23
p0 −35.34 ± 402.6
4000
2000
0
−2000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 18
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean 0.01479
Std Dev 0.4244
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

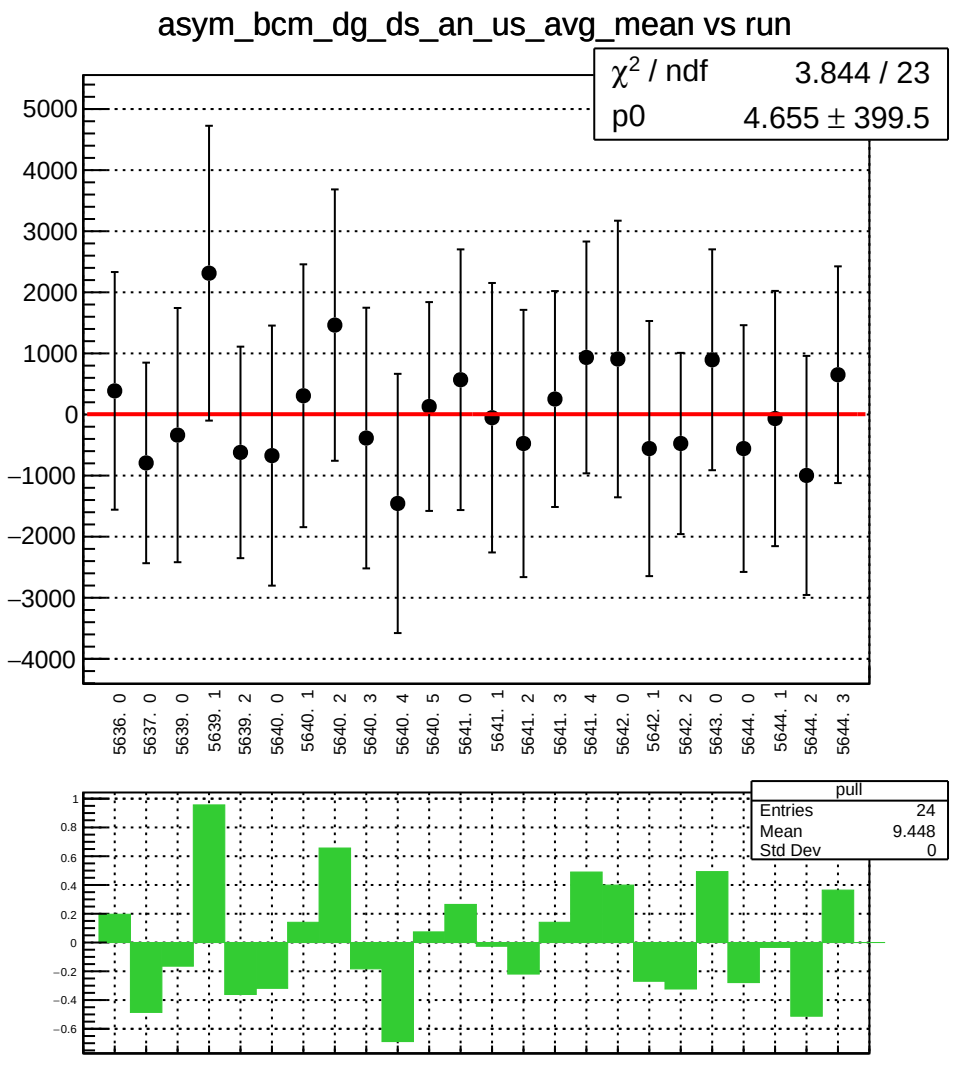

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 3139 / 23
p0 197.1 ± 0.2847
240
220
200
180
160
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

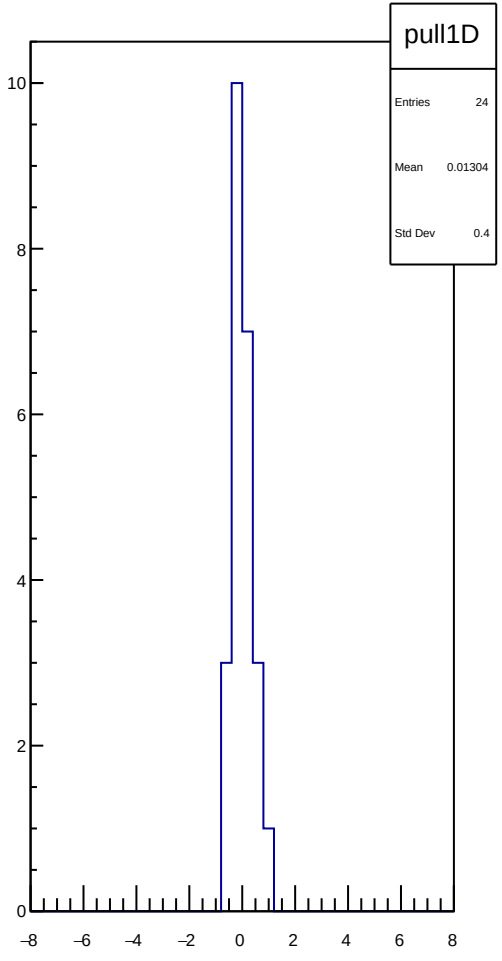

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 25.21 / 23
p0 −37.64 ± 45.44
800
600
400
200
0
−200
−400
−600
−800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

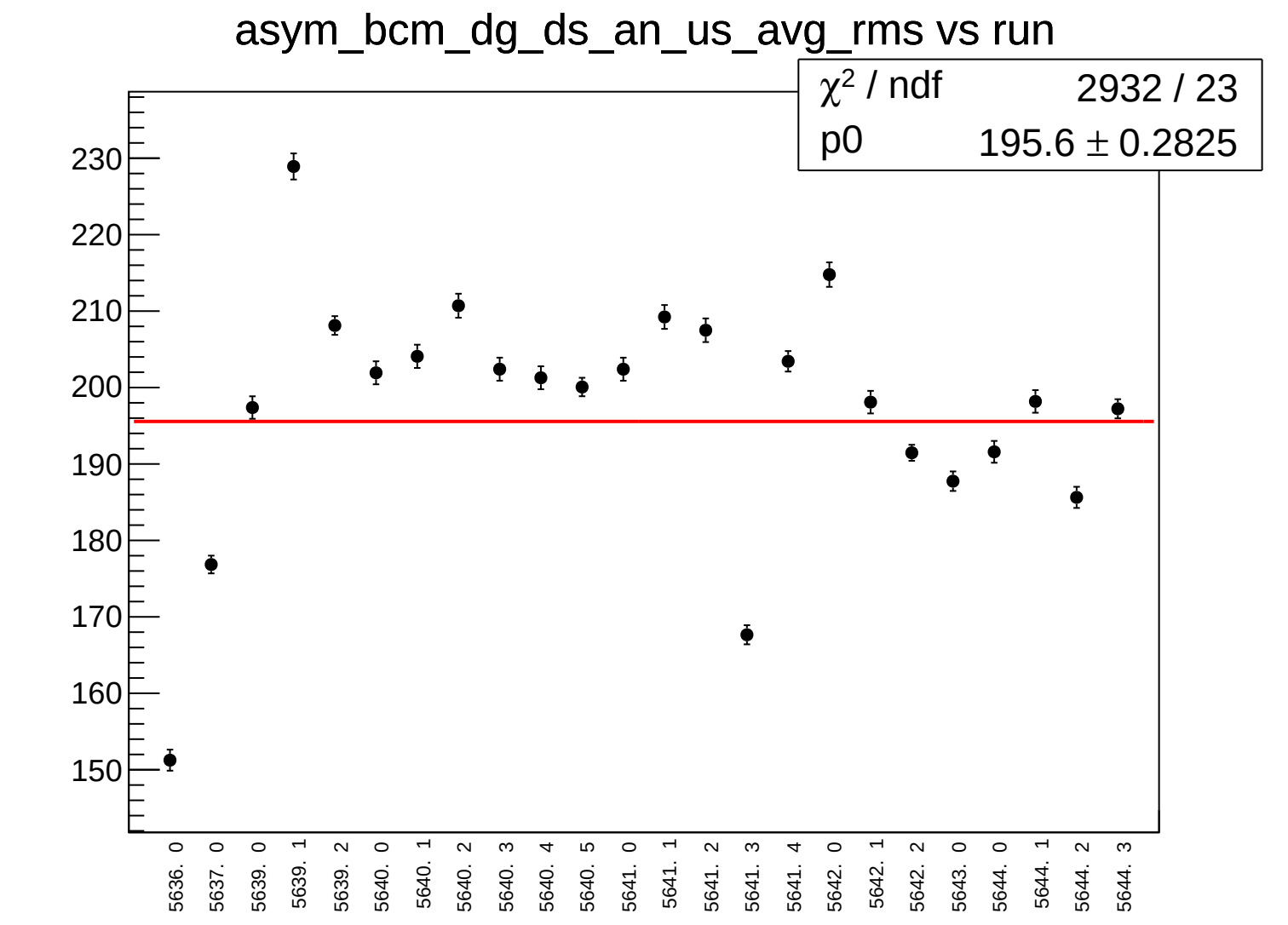

pull
Entries 24
Mean 2102
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

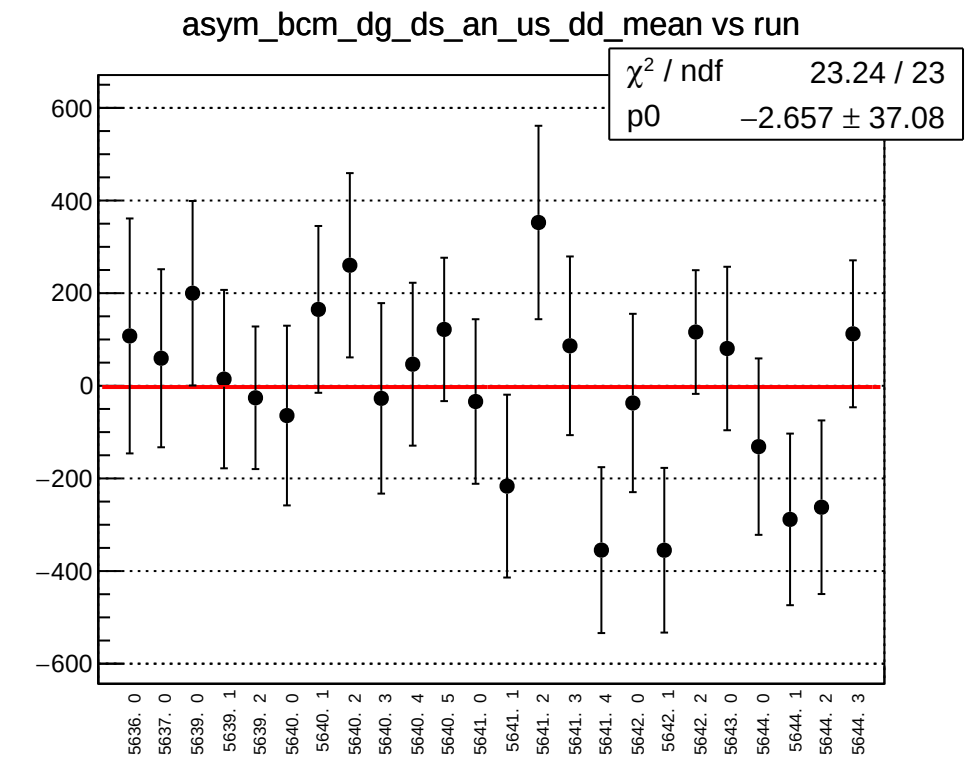

pull1D
Entries 24
Mean −0.0004271
Std Dev 1.025
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

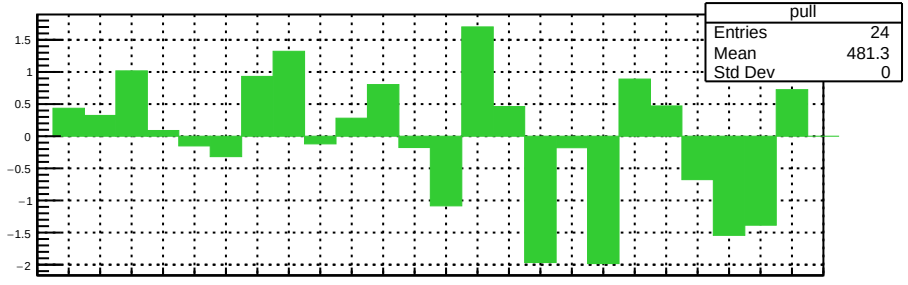

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 194.6 / 23
p0 22.31 ± 0.03213
23.5
23
22.5
22
21.5
21
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

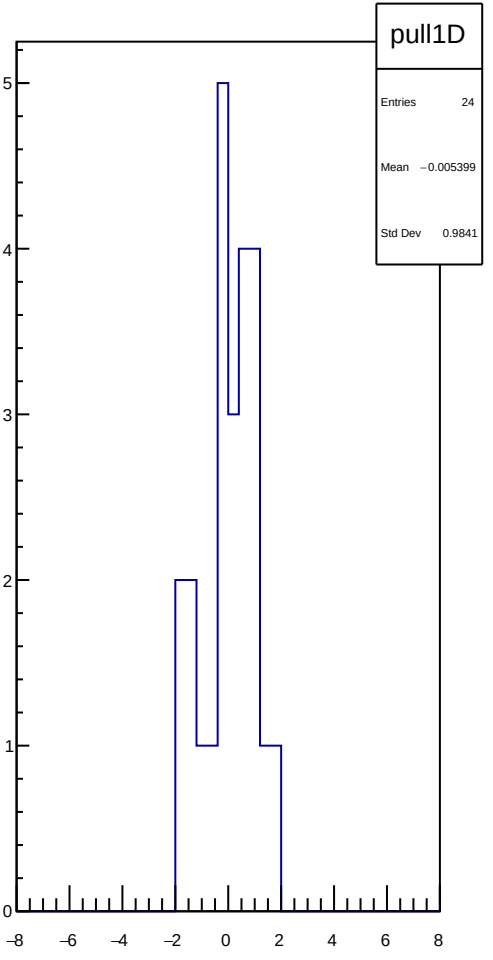

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 3.844 / 23
p0 4.655 ± 399.5
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 9.448
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

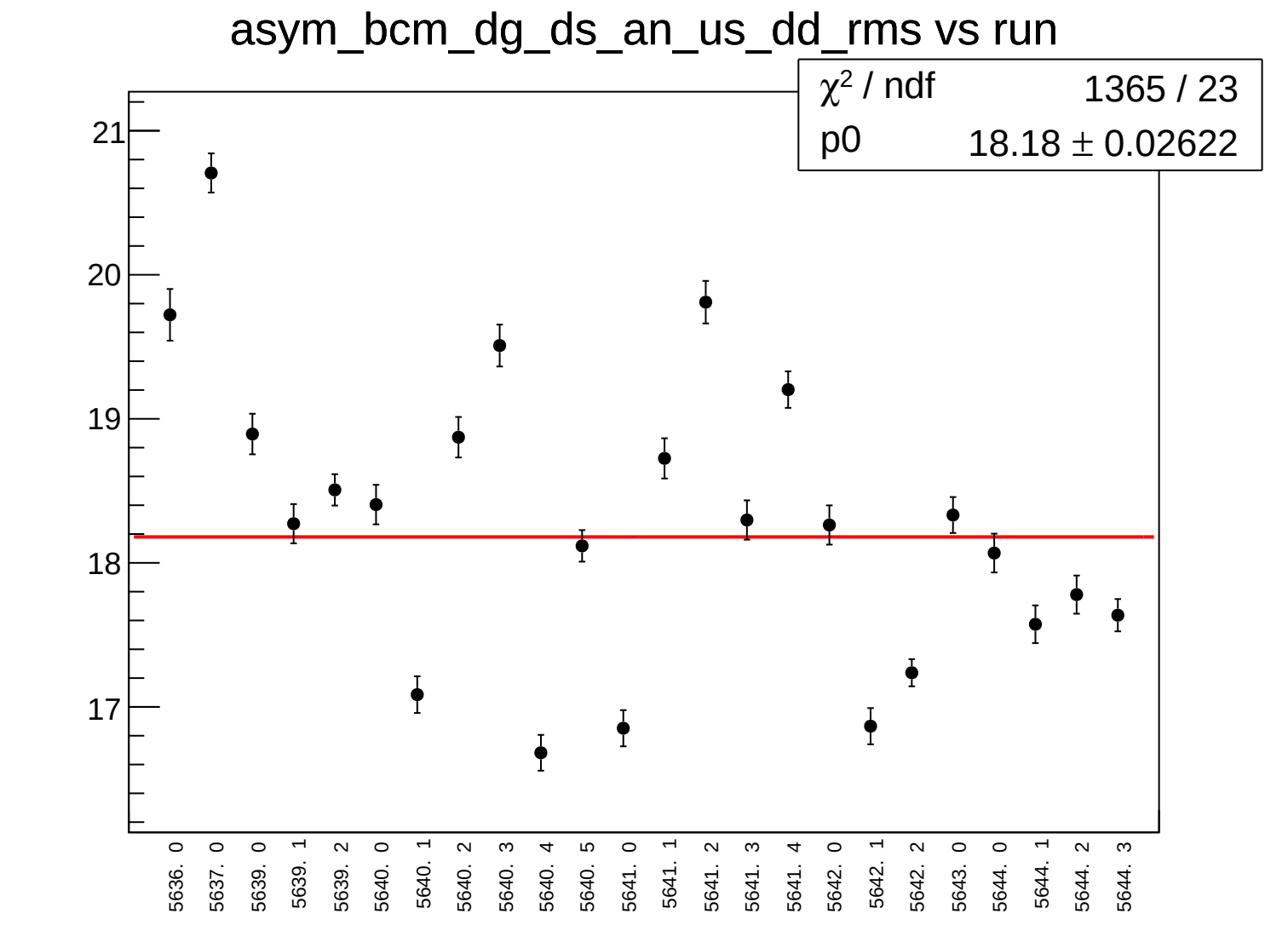

pull1D
Entries 24
Mean 0.01304
Std Dev 0.4
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

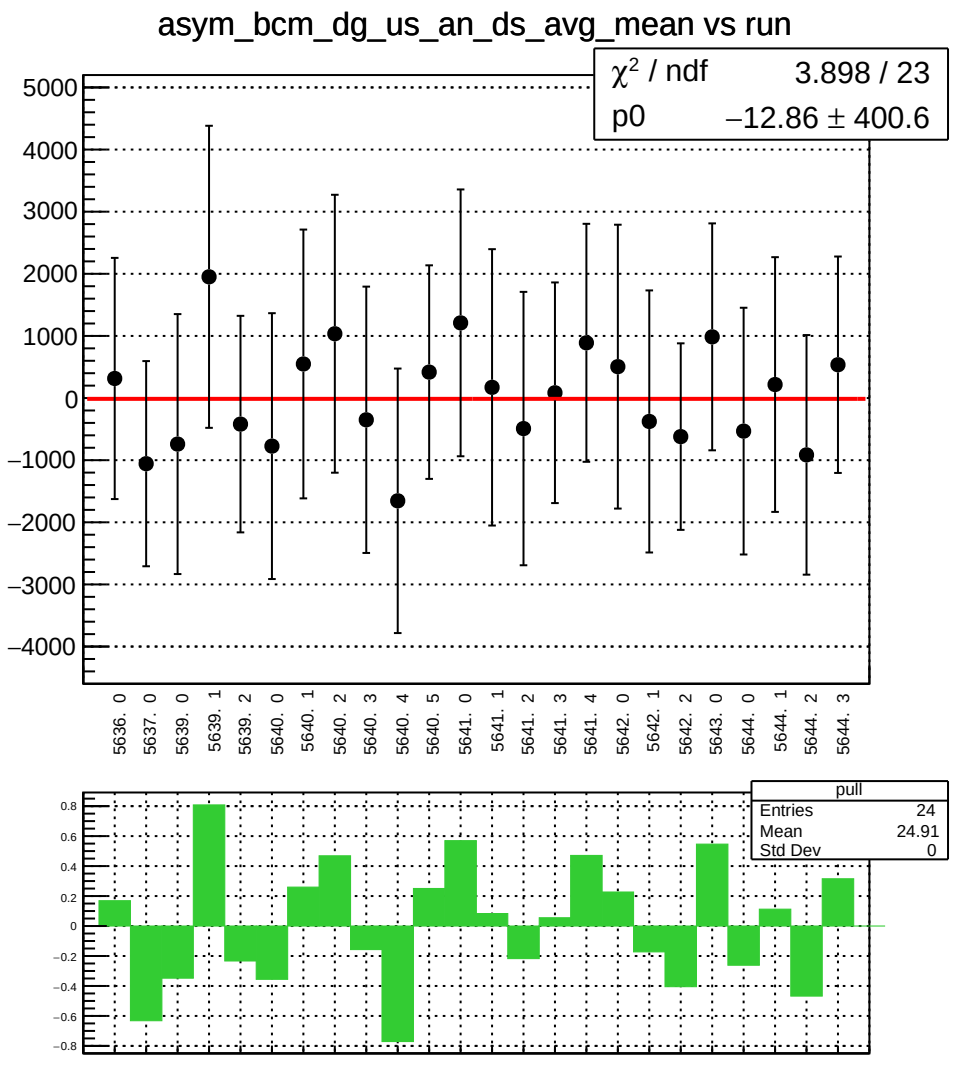

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 2932 / 23
p0 195.6 ± 0.2825
230
220
210
200
190
180
170
160
150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

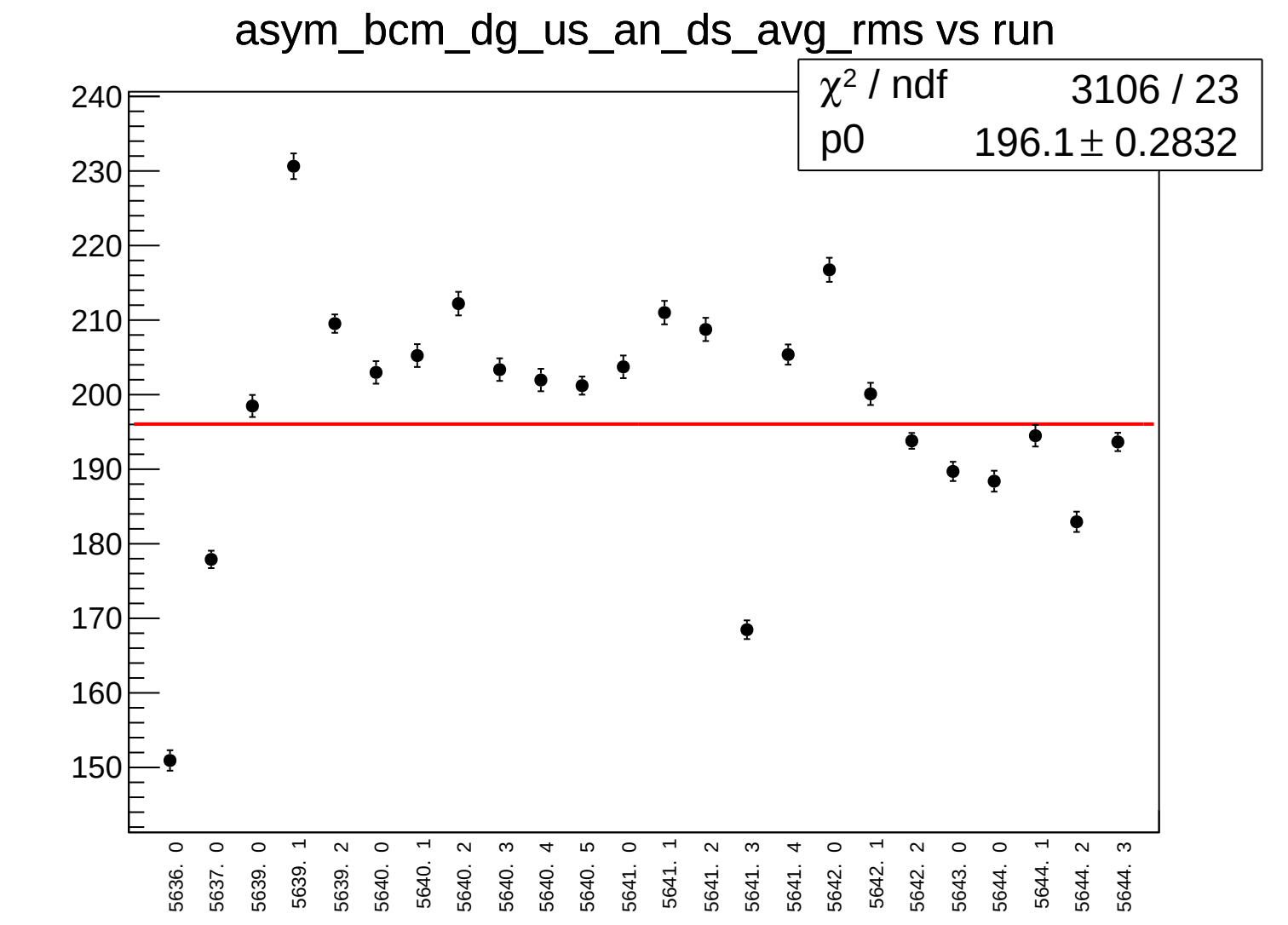

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 23.24 / 23
p0 −2.657 ± 37.08
600
400
200
0
−200
−400
−600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

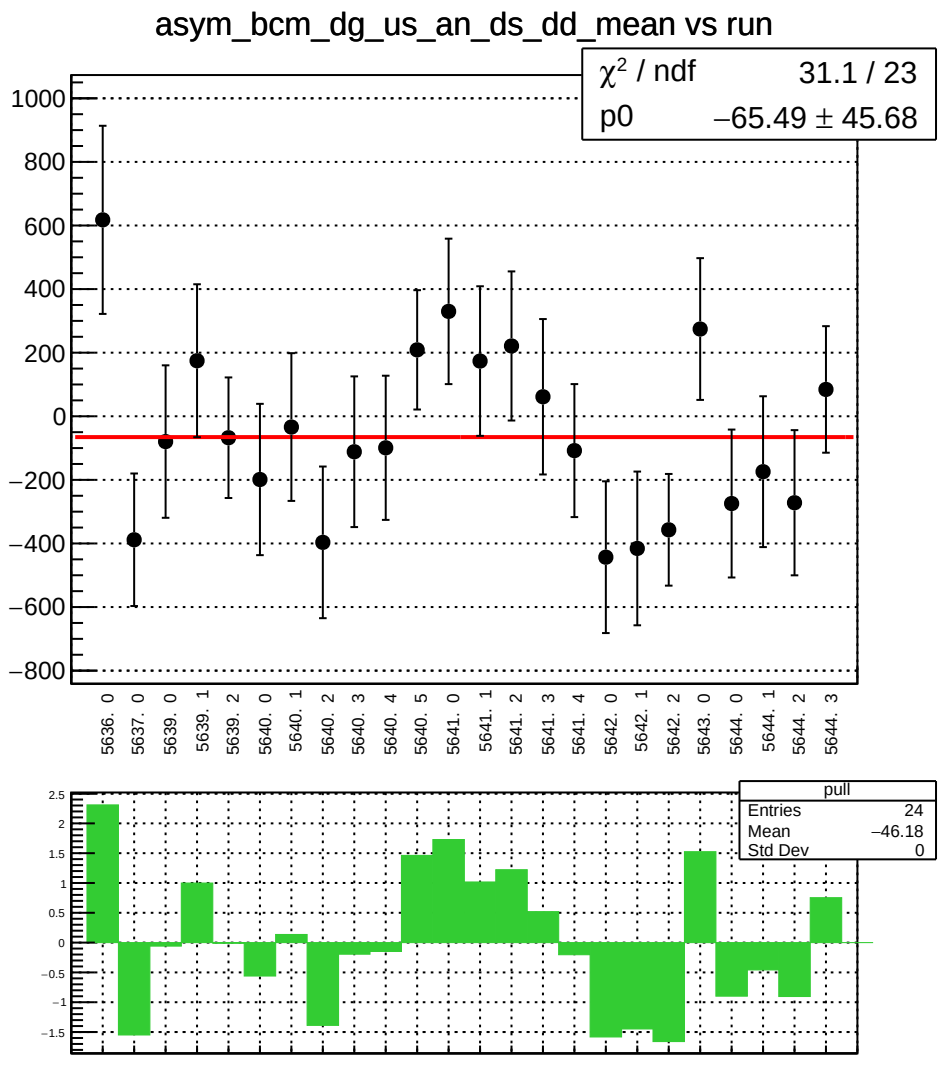

pull
Entries 24
Mean 481.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

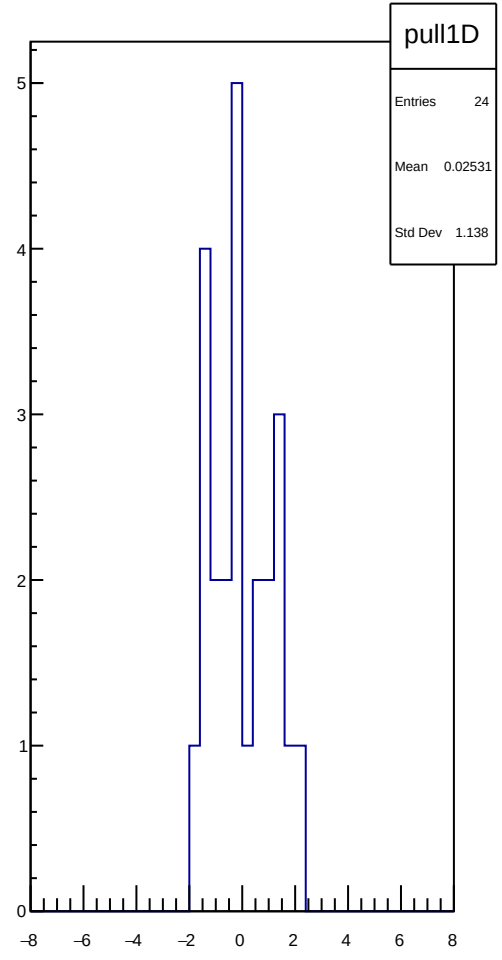

pull1D
Entries 24
Mean −0.005399
Std Dev 0.9841
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

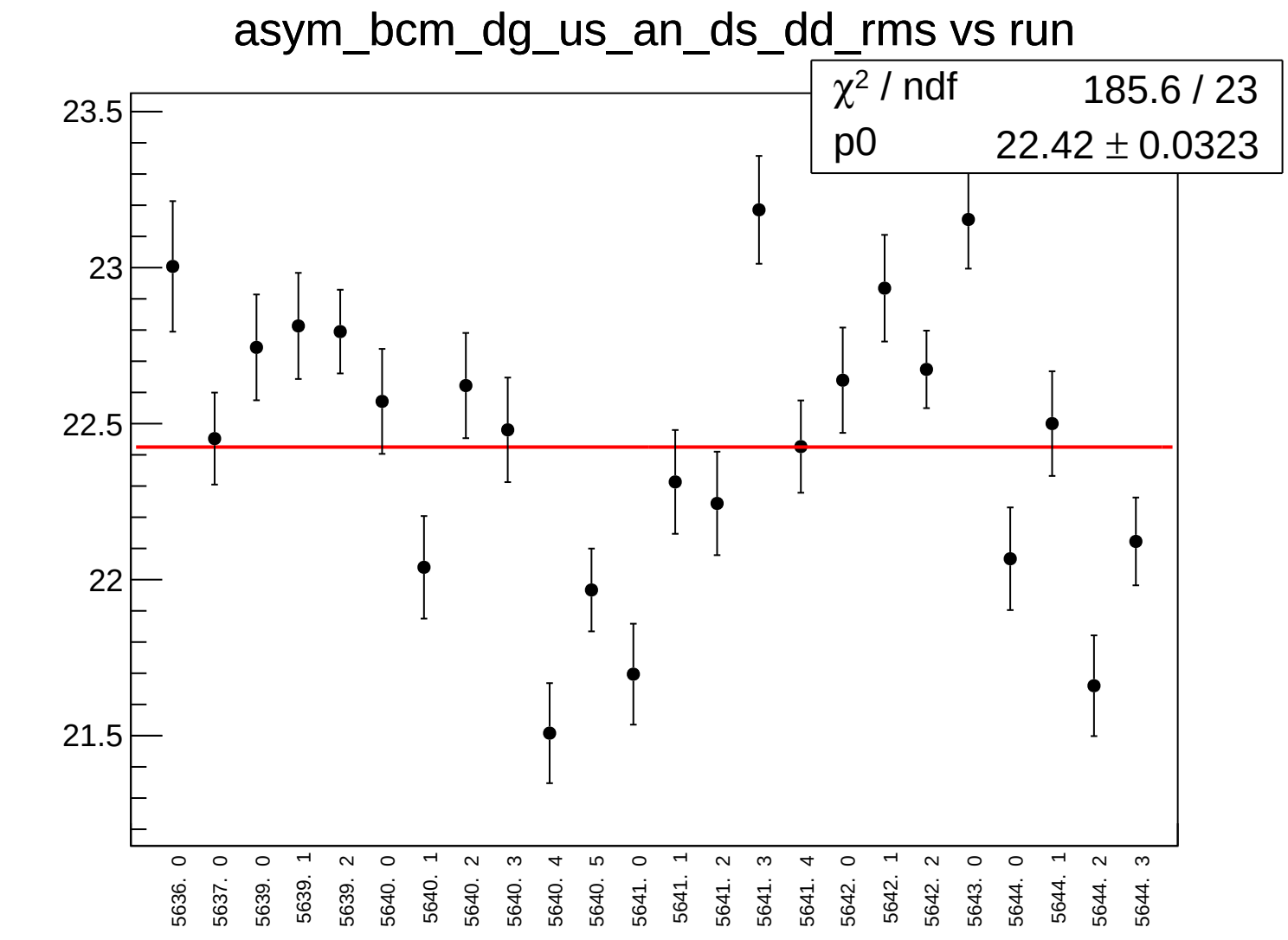

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 1365 / 23
p0 18.18 ± 0.02622
21
20
19
18
17
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

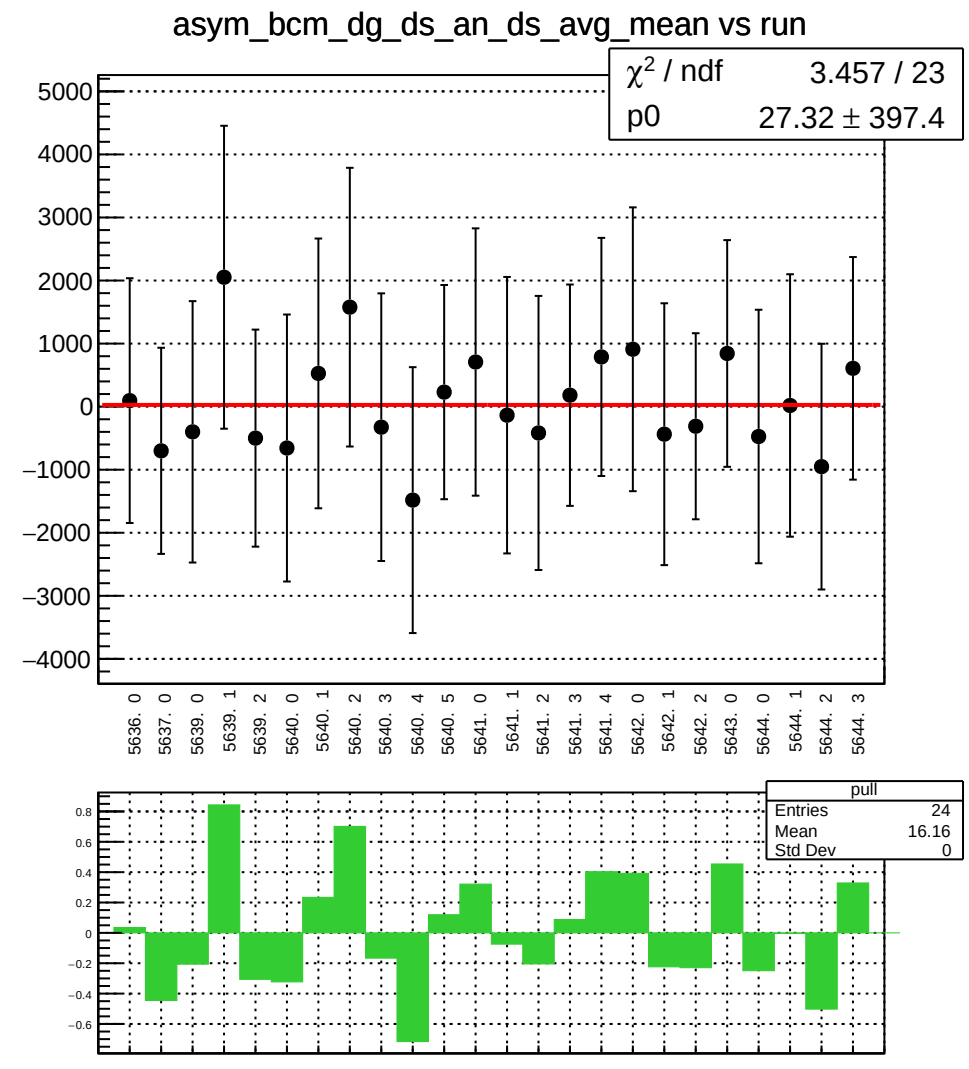

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 3.898 / 23
p0 −12.86 ± 400.6
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 24.91
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean 0.01315
Std Dev 0.4028
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

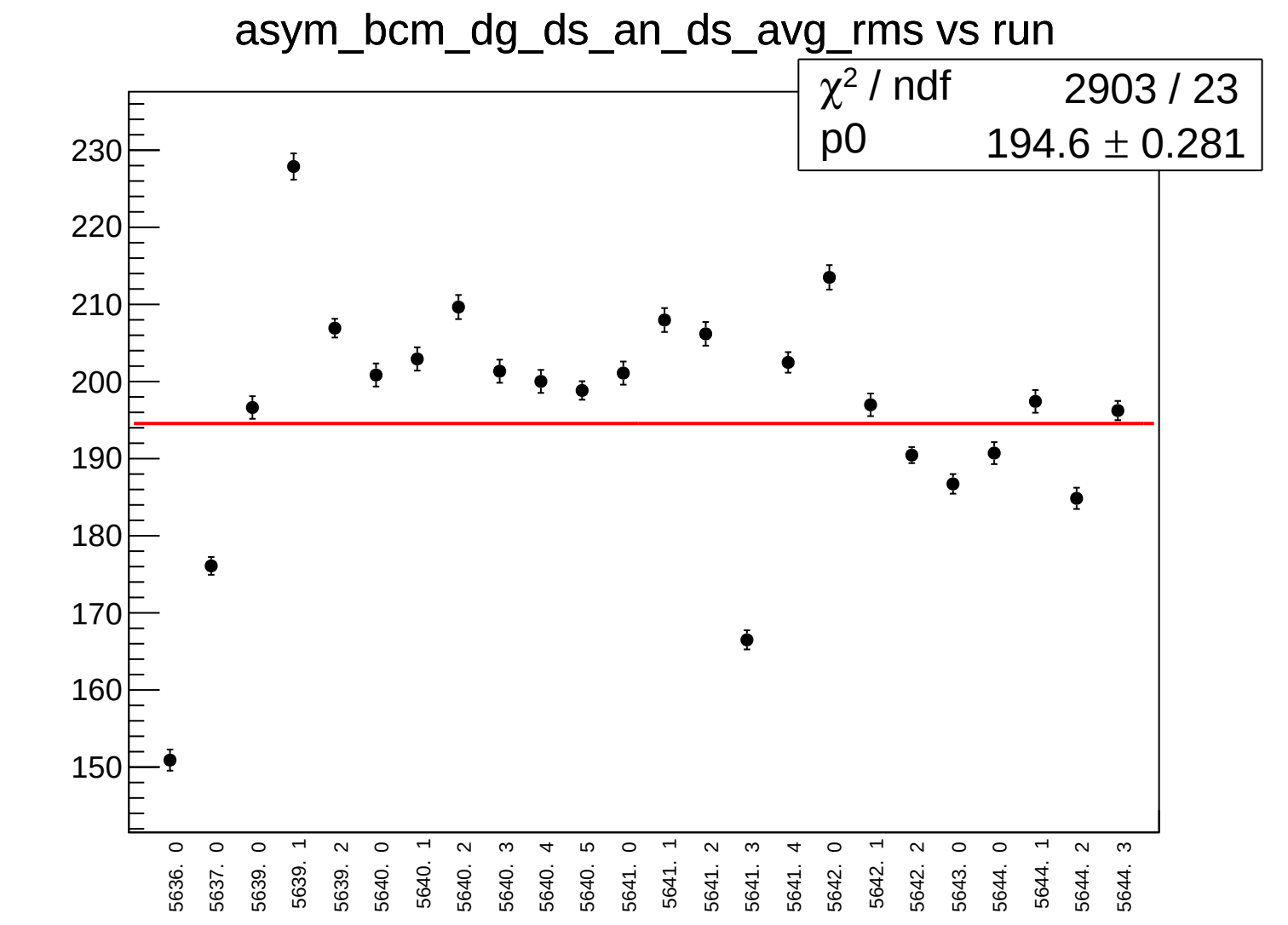

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 3106 / 23
p0 196.1 ± 0.2832
240
230
220
210
200
190
180
170
160
150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 31.1 / 23
p0 −65.49 ± 45.68
1000
800
600
400
200
0
−200
−400
−600
−800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −46.18
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean 0.02531
Std Dev 1.138
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 185.6 / 23
p0 22.42 ± 0.0323
23.5
23
22.5
22
21.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 3.457 / 23
p0 27.32 ± 397.4
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 16.16
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 24
Mean 0.01131
Std Dev 0.3794
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 2903 / 23
p0 194.6 ± 0.281
230
220
210
200
190
180
170
160
150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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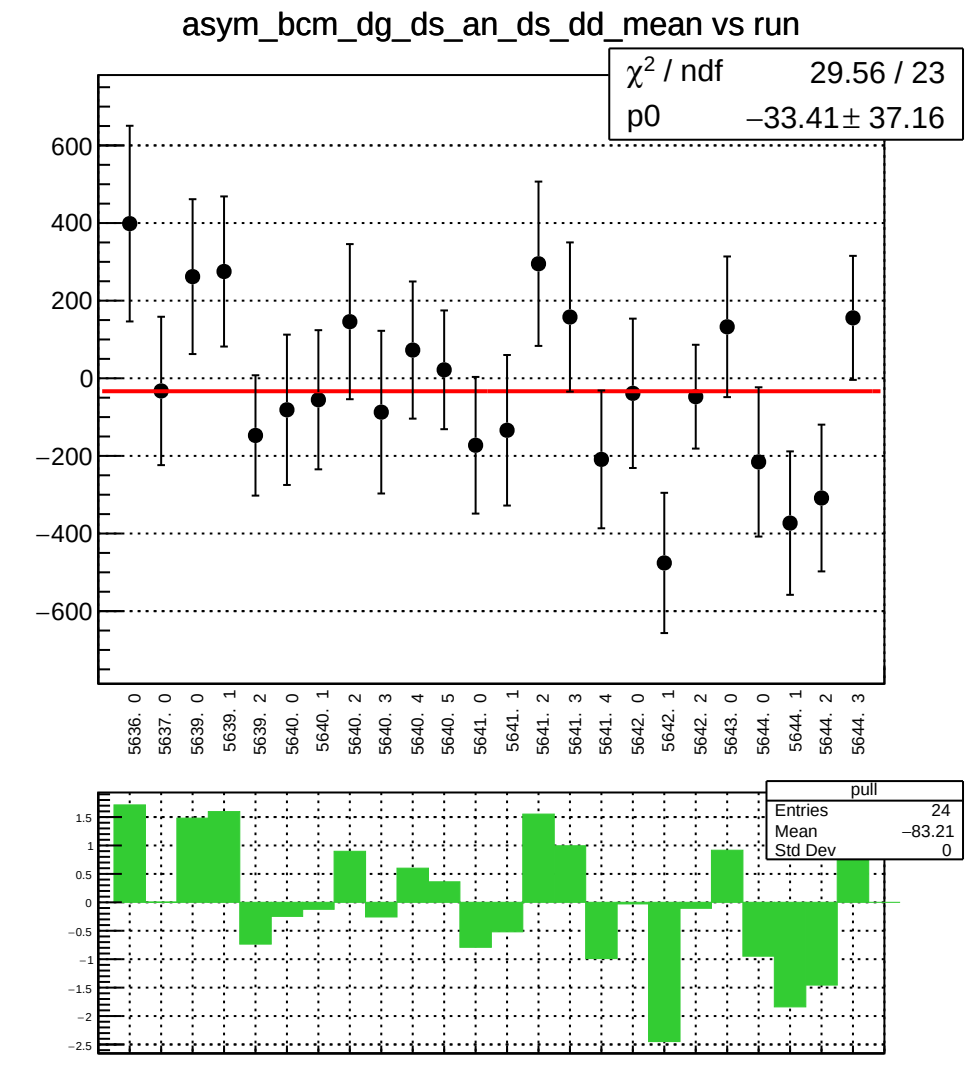
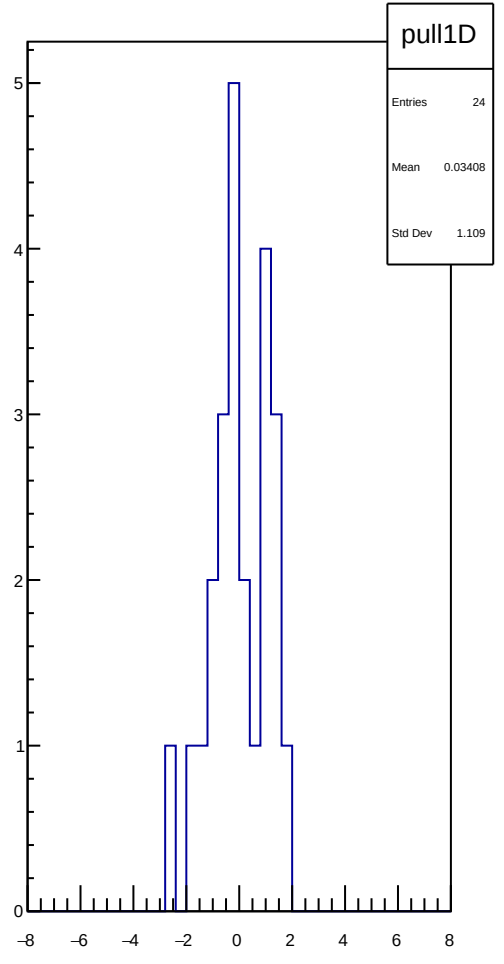
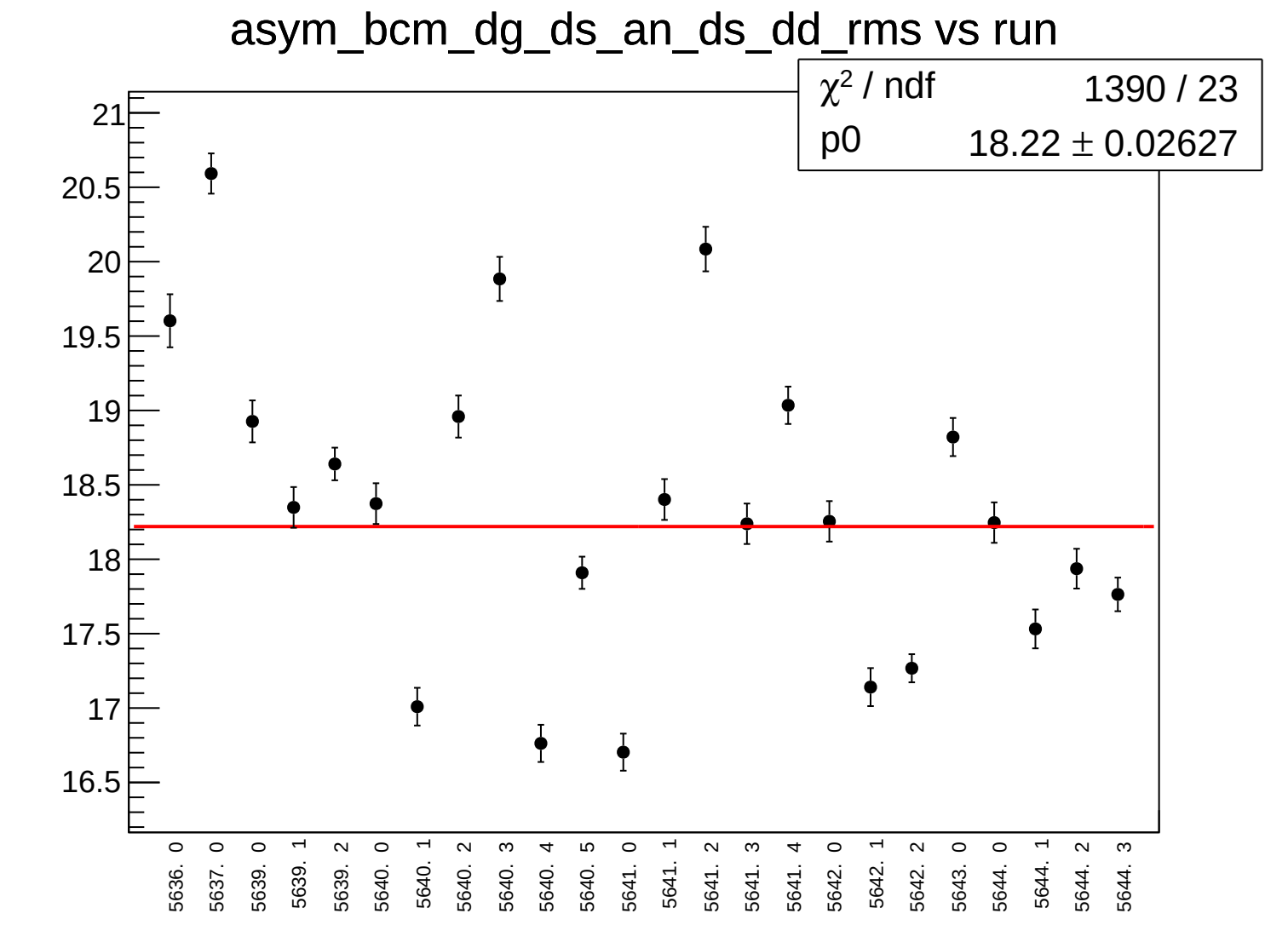
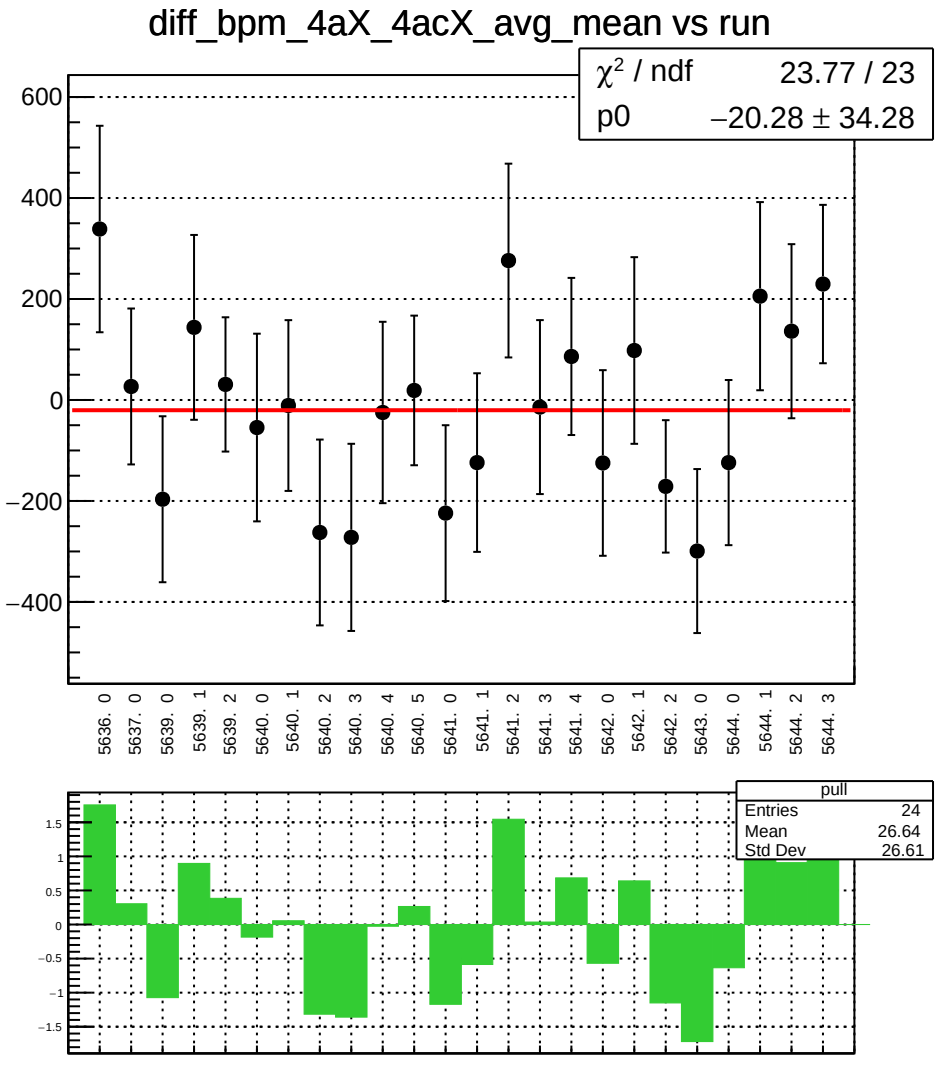
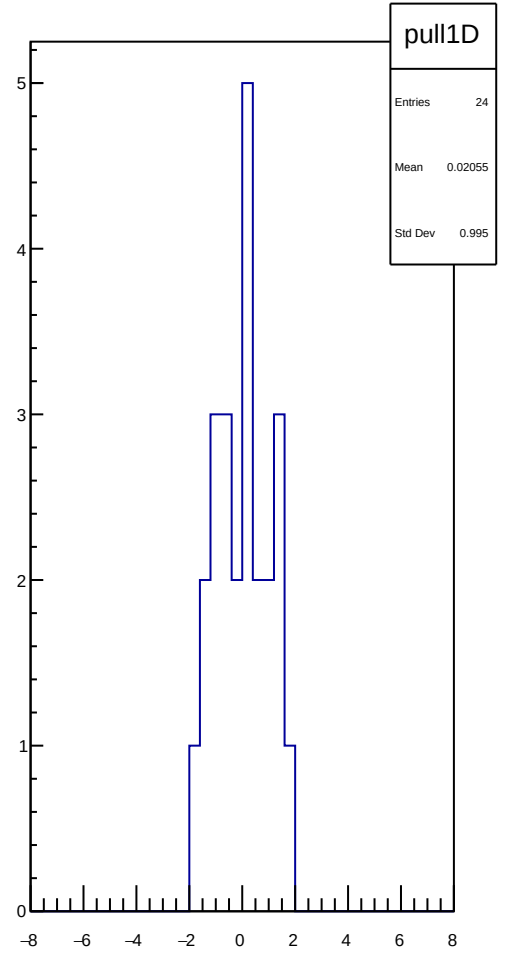
5644. 1
5644. 2
5644. 3

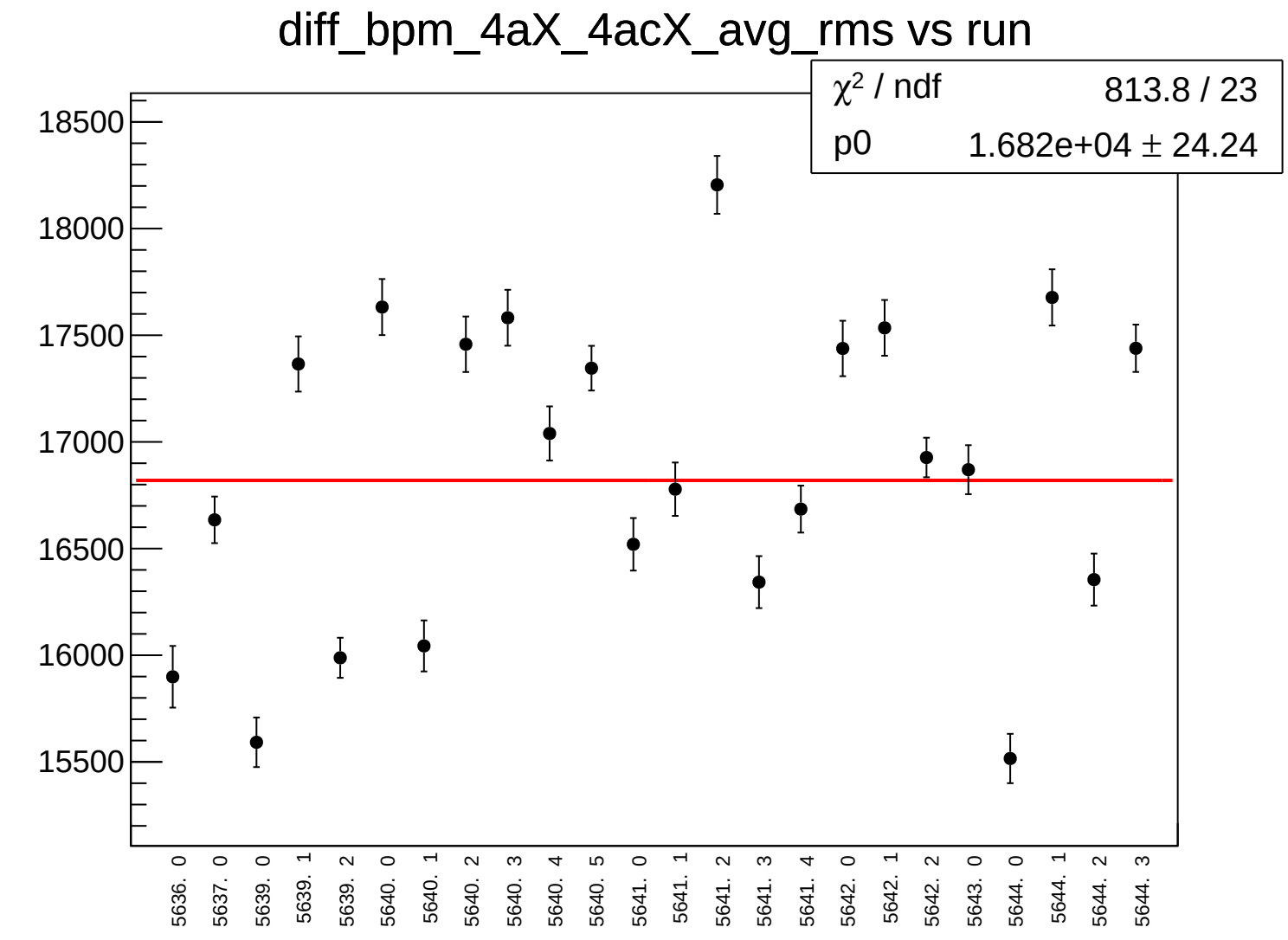

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 29.56 / 23
p0 −33.41 ± 37.16
600
400
200
0
−200
−400
−600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −83.21
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

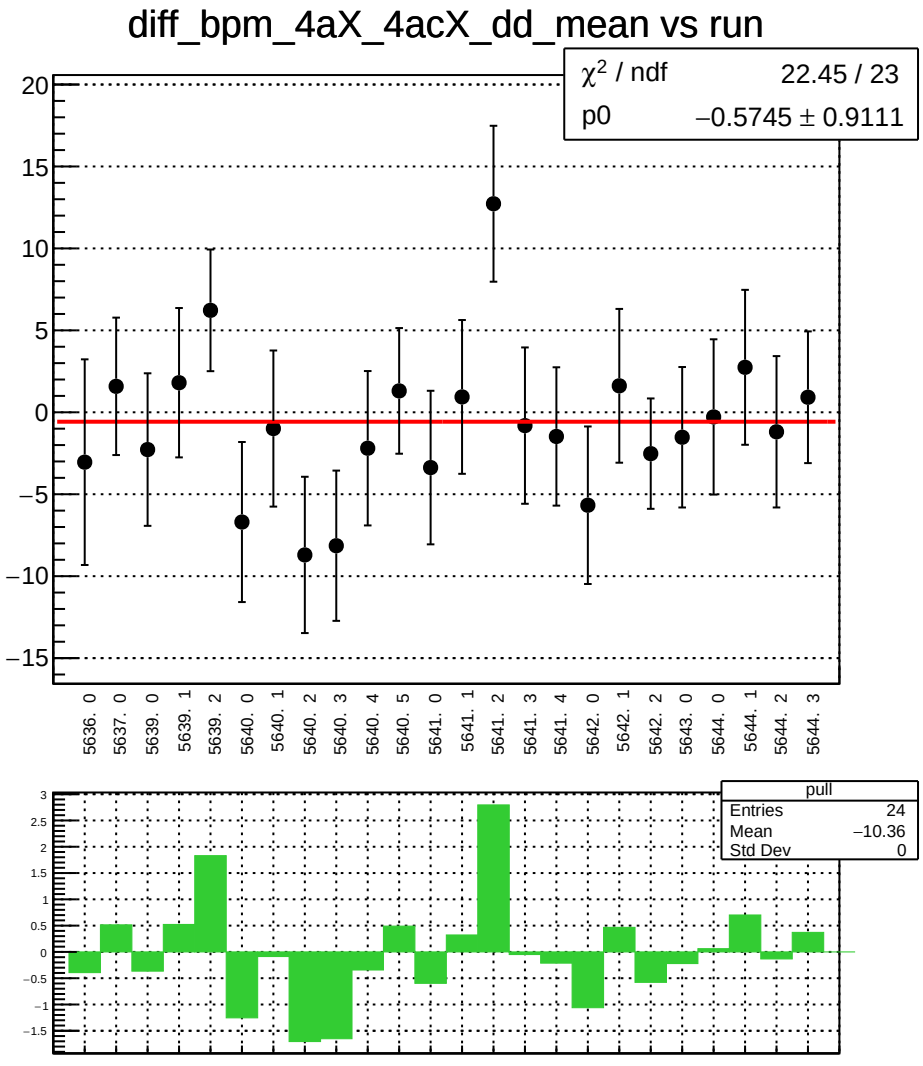

pull1D
Entries 24
Mean 0.03408
Std Dev 1.109
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

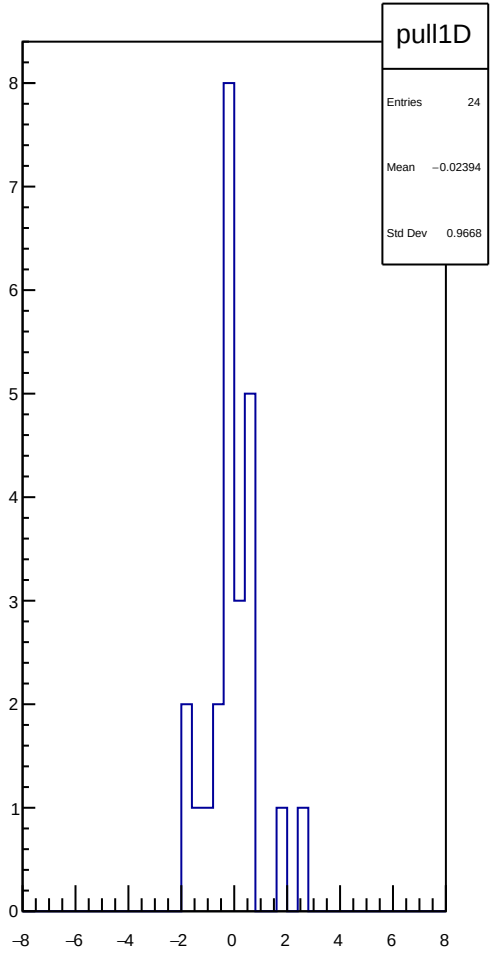

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 1390 / 23
p0 18.22 ± 0.02627
21
20.5
20
19.5
19
18.5
18
17.5
17
16.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

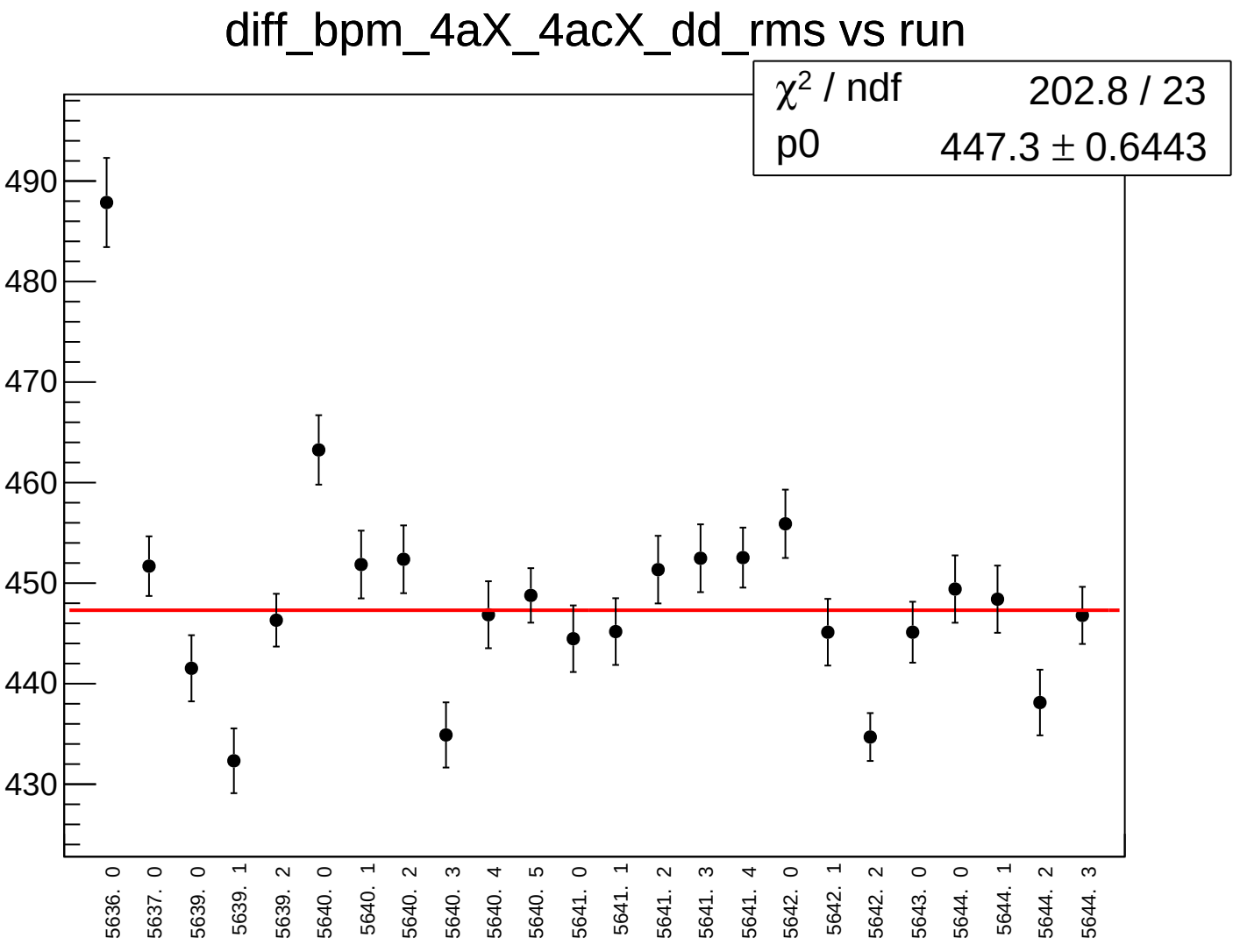

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 23.77 / 23
p0 −20.28 ± 34.28
600
400
200
0
−200
−400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 26.64
Std Dev 26.61
1.5
1
0.5
0
−0.5
−1
−1.5

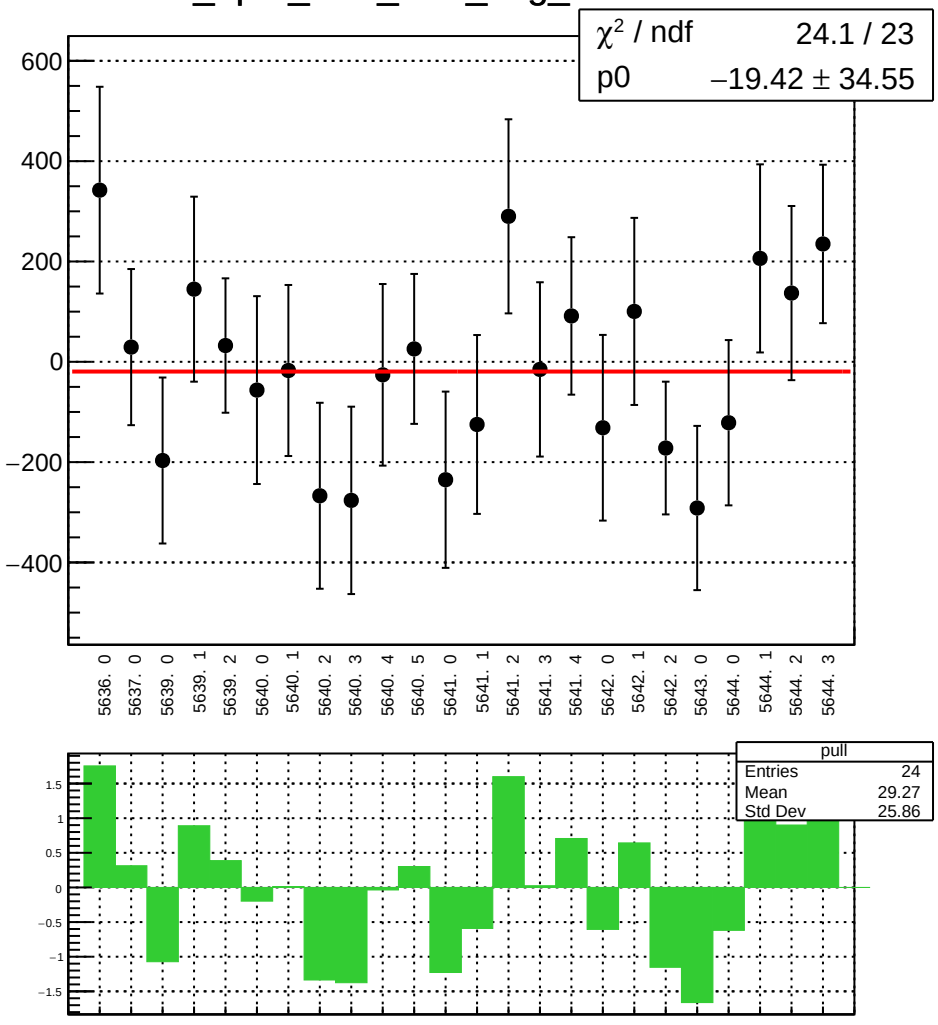

pull1D
Entries 24
Mean 0.02055
Std Dev 0.995
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

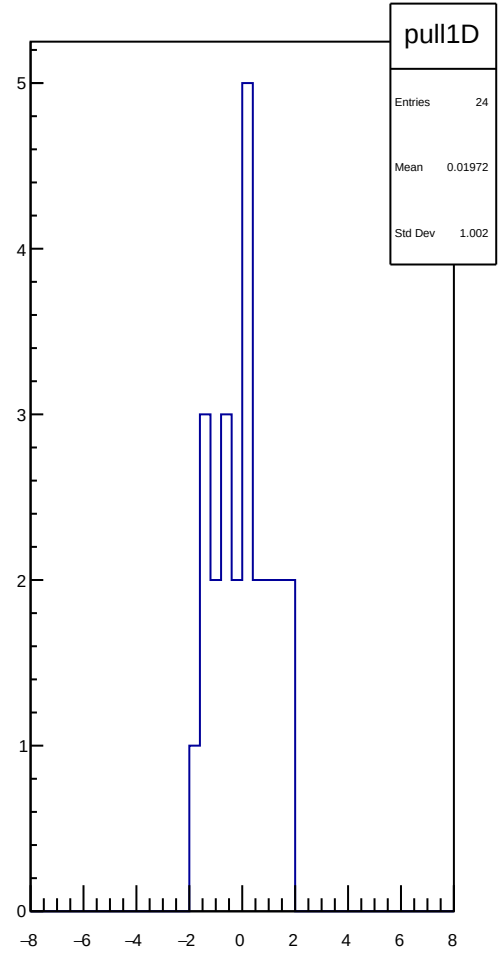

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 813.8 / 23
p0 1.682e+04 ± 24.24
18500
18000
17500
17000
16500
16000
15500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

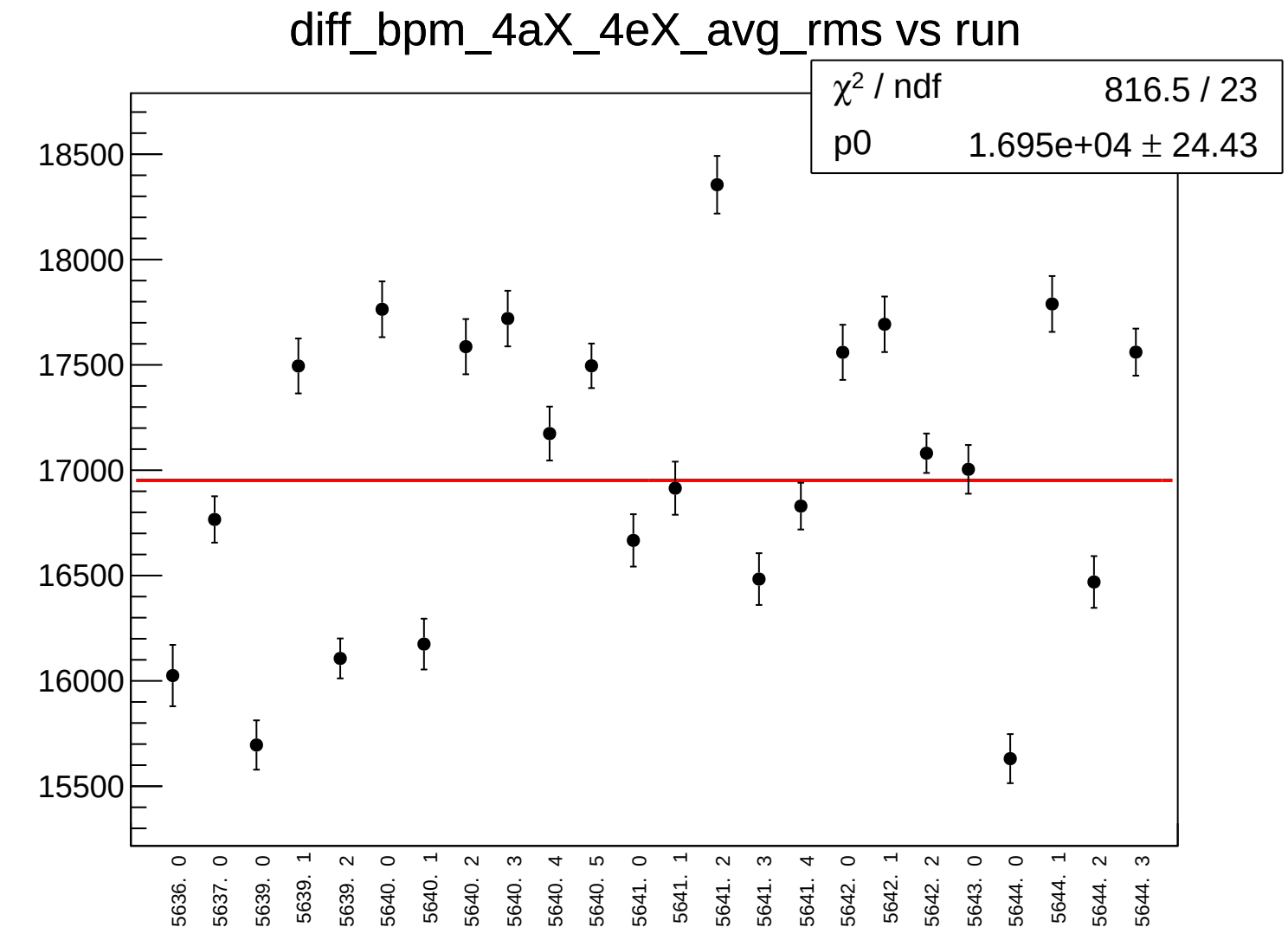

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 22.45 / 23
p0 −0.5745 ± 0.9111
20
15
10
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −10.36
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

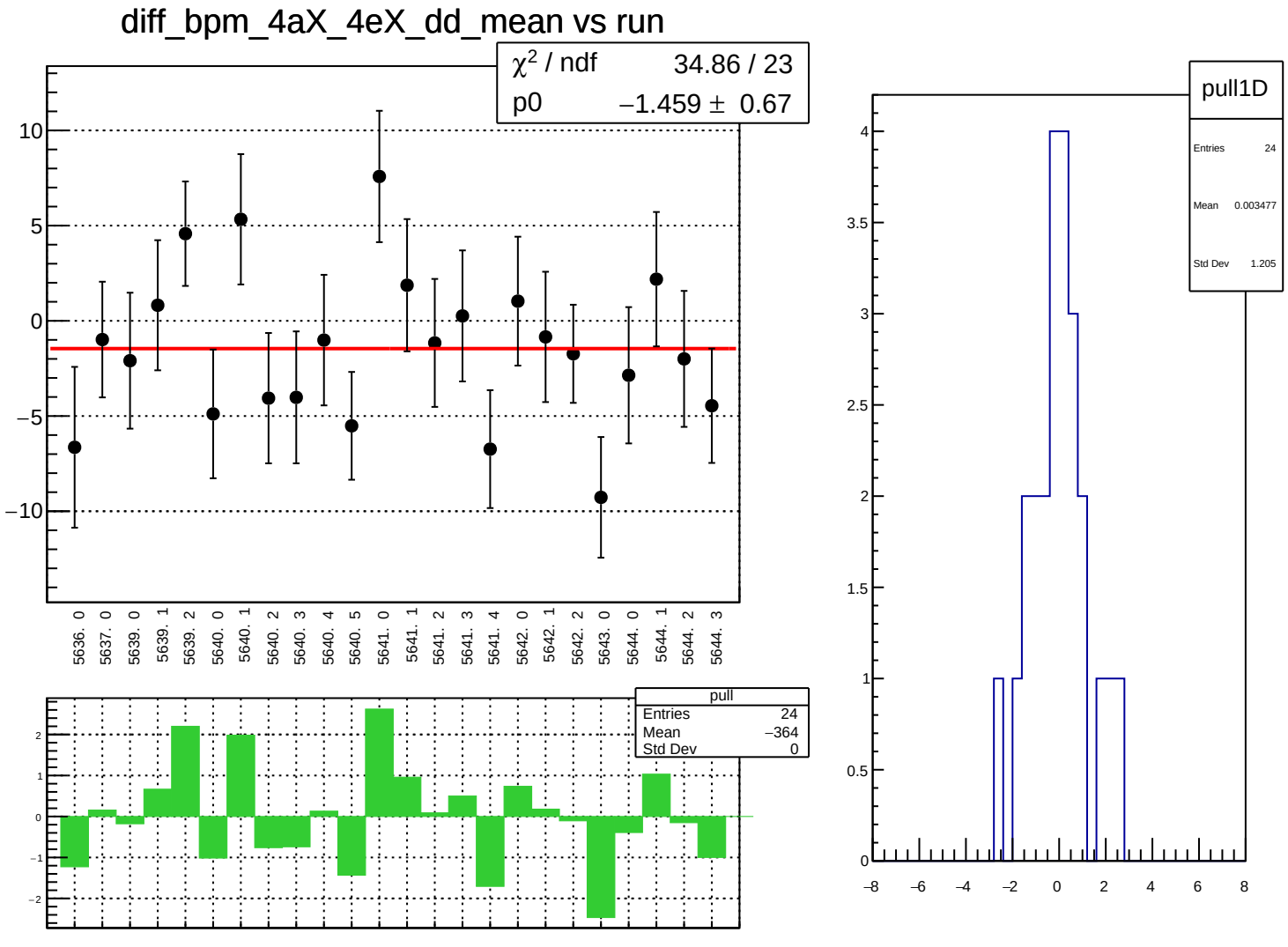

pull1D
Entries 24
Mean −0.02394
Std Dev 0.9668
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

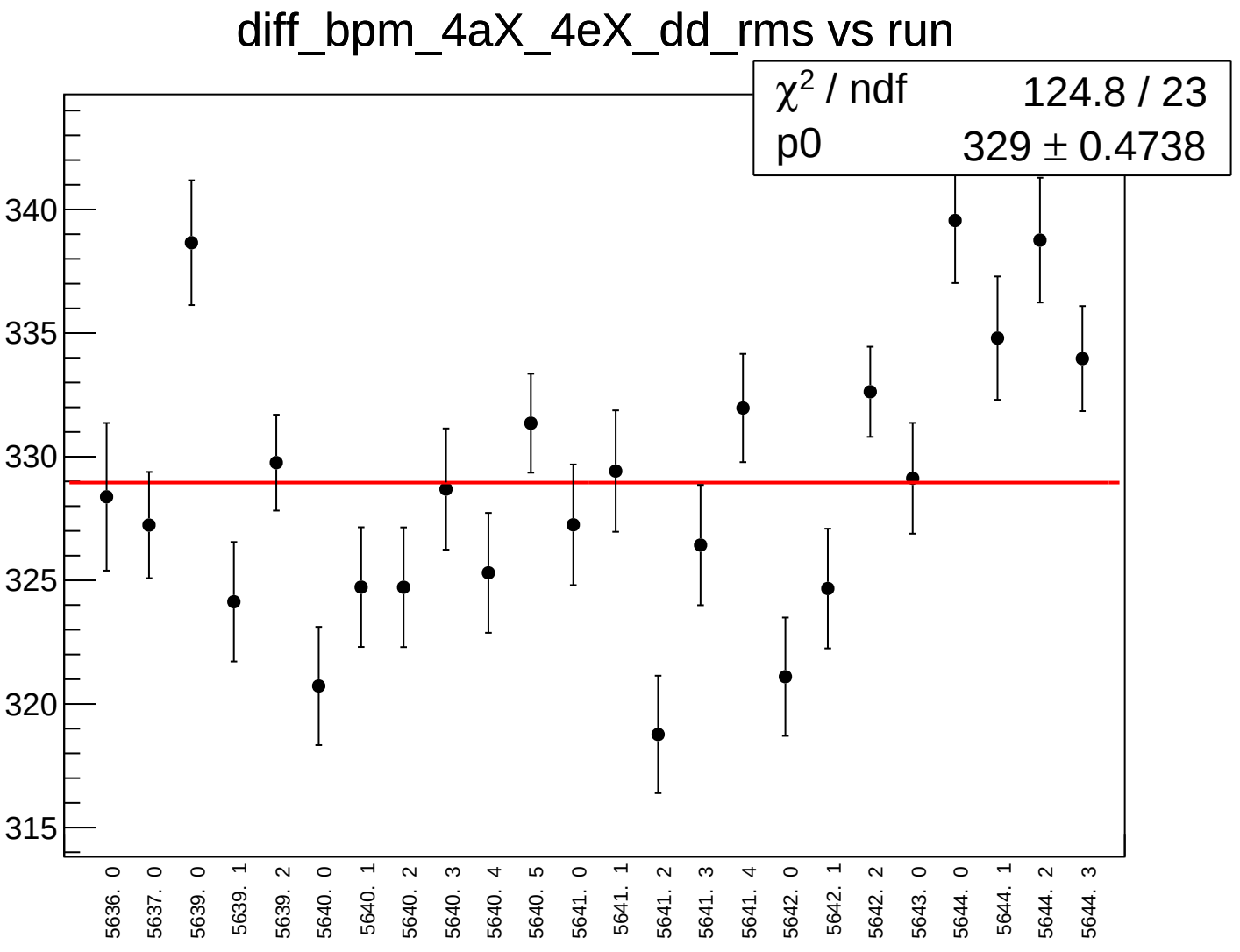

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 202.8 / 23
p0 447.3 ± 0.6443
490
480
470
460
450
440
430
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

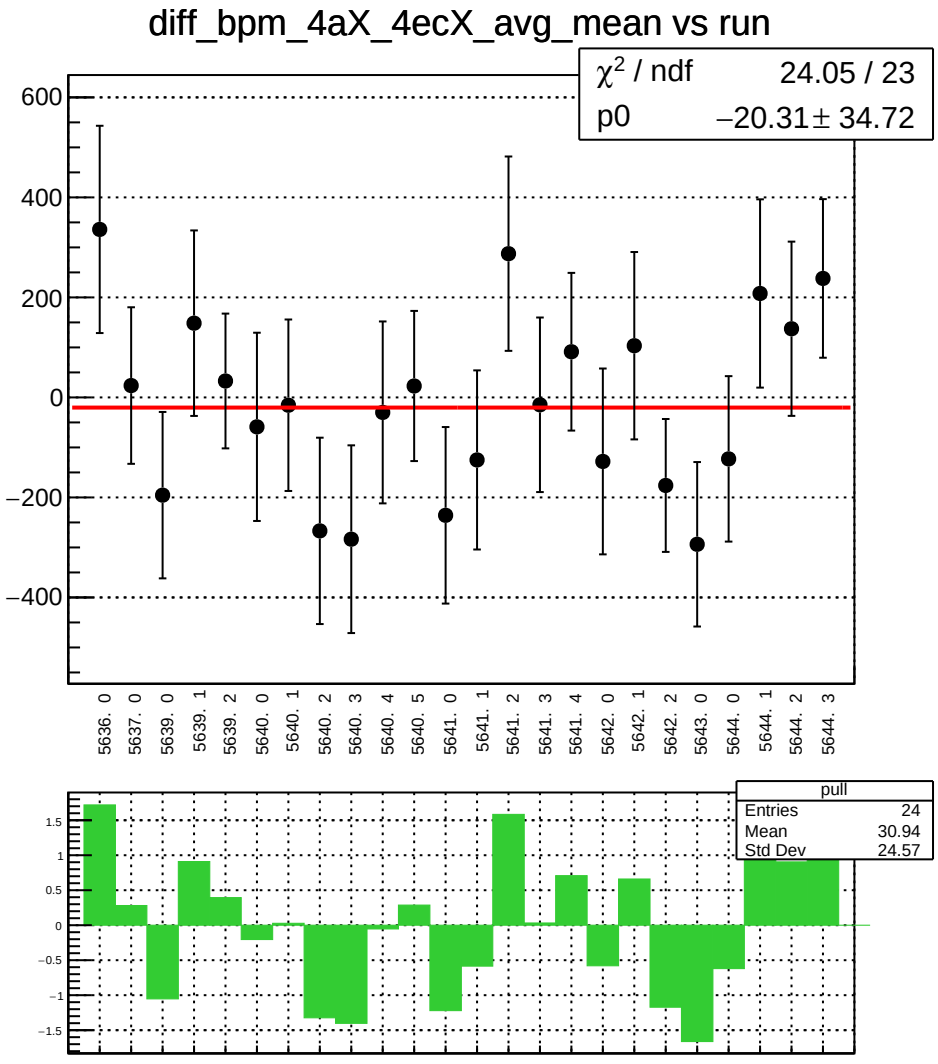

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 24.1 / 23
p0 −19.42 ± 34.55
600
400
200
0
−200
−400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 29.27
Std Dev 25.86
1.5
1
0.5
0
−0.5
−1
−1.5

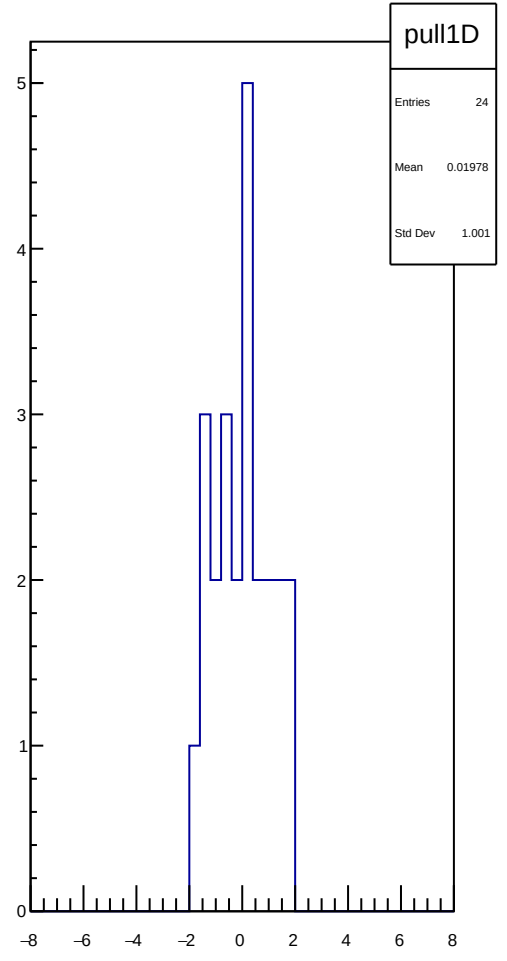

pull1D
Entries 24
Mean 0.01972
Std Dev 1.002
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

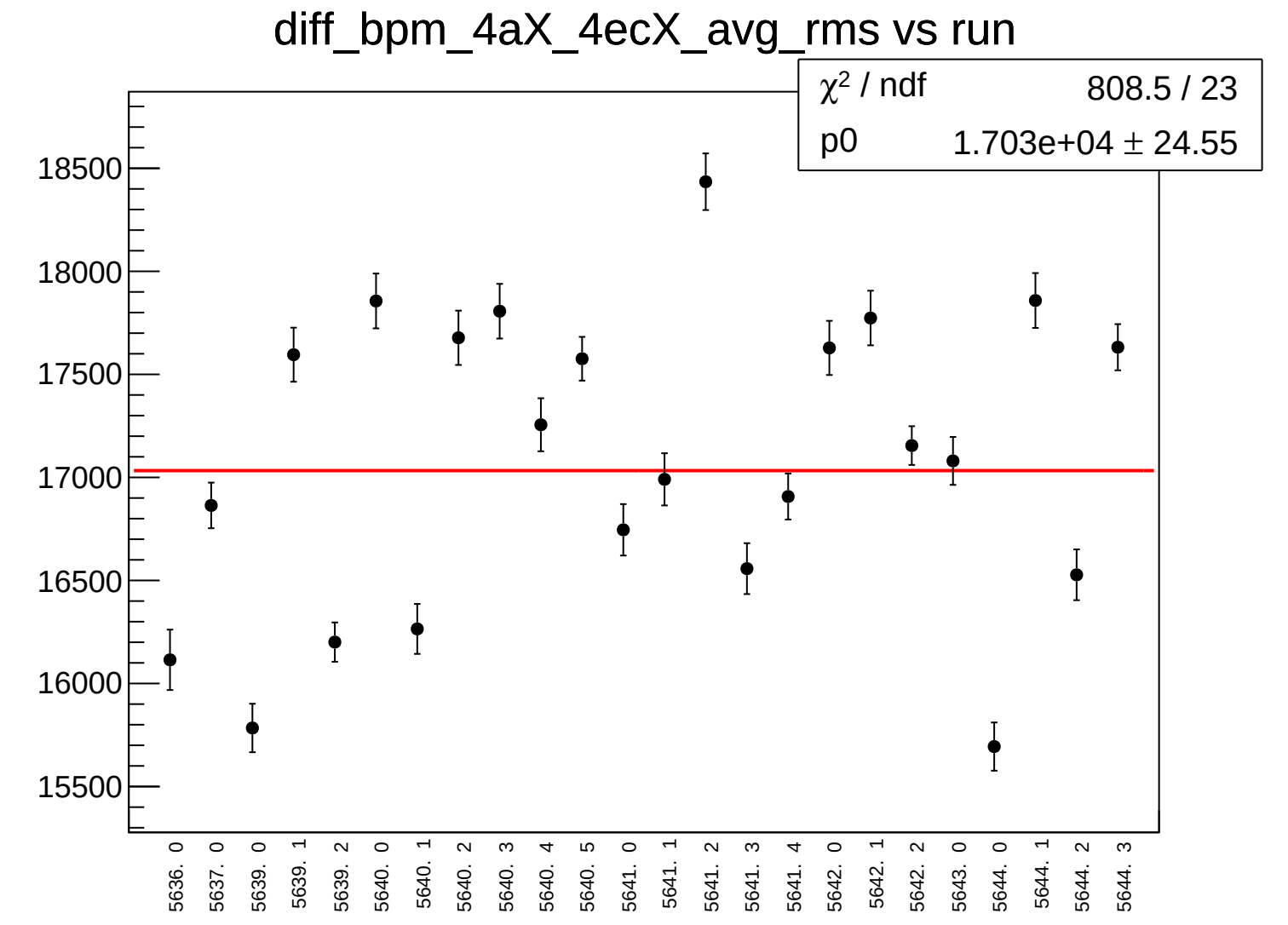

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 816.5 / 23
p0 1.695e+04 ± 24.43
18500
18000
17500
17000
16500
16000
15500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

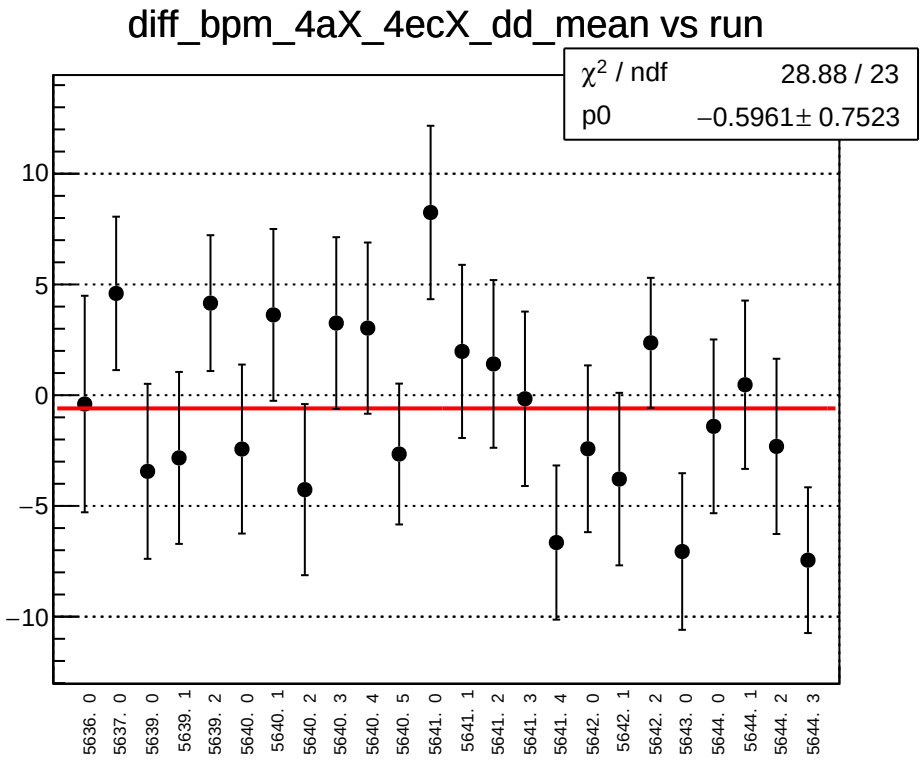

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 34.86 / 23
p0 −1.459 ± 0.67
10
5
0
−5
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −364
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 24
Mean 0.003477
Std Dev 1.205
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

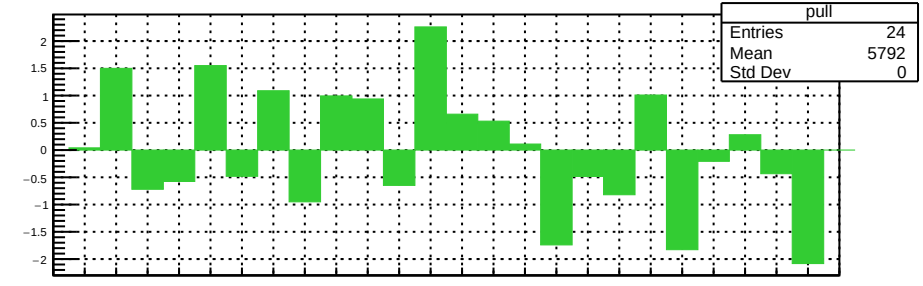

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 124.8 / 23
p0 329 ± 0.4738
340
335
330
325
320
315
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

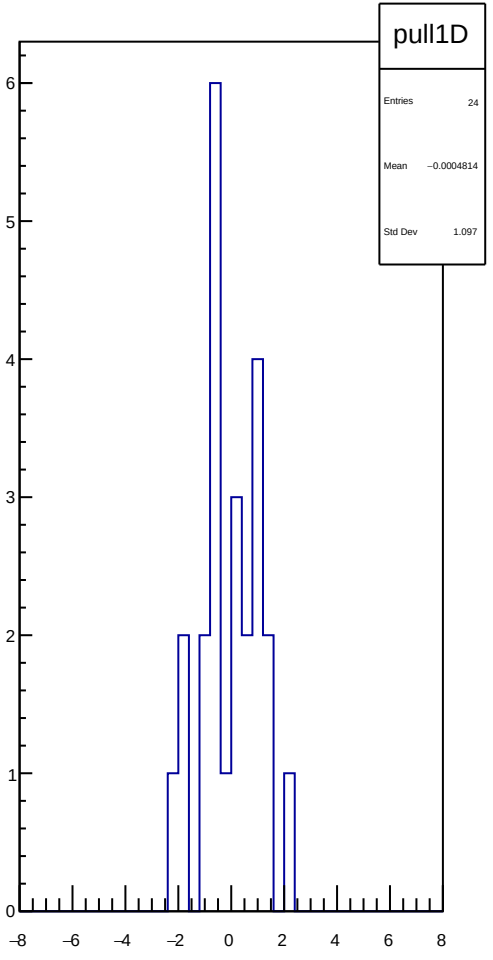

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 24.05 / 23
p0 −20.31 ± 34.72
600
400
200
0
−200
−400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 30.94
Std Dev 24.57
1.5
1
0.5
0
−0.5
−1
−1.5

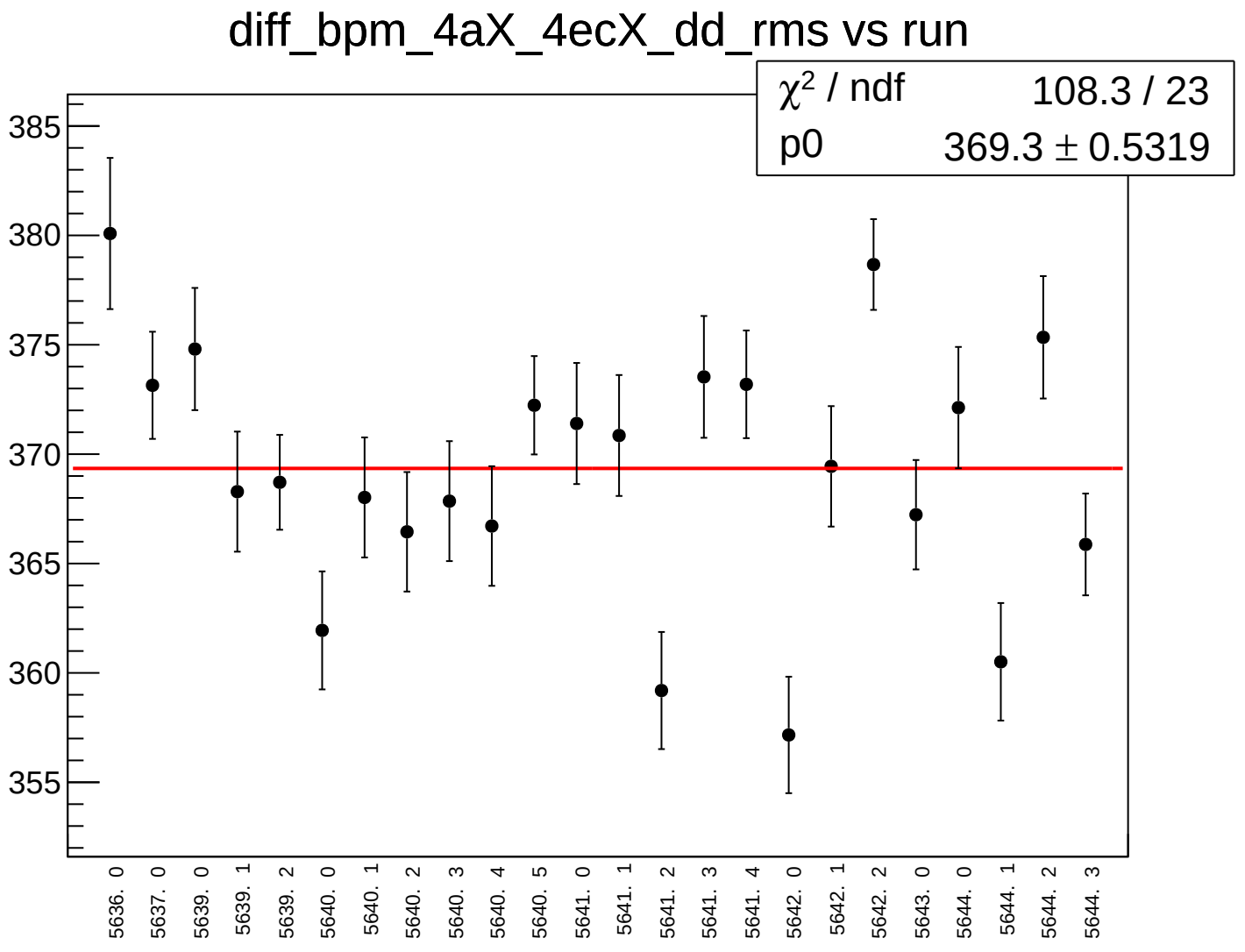

pull1D
Entries 24
Mean 0.01978
Std Dev 1.001
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

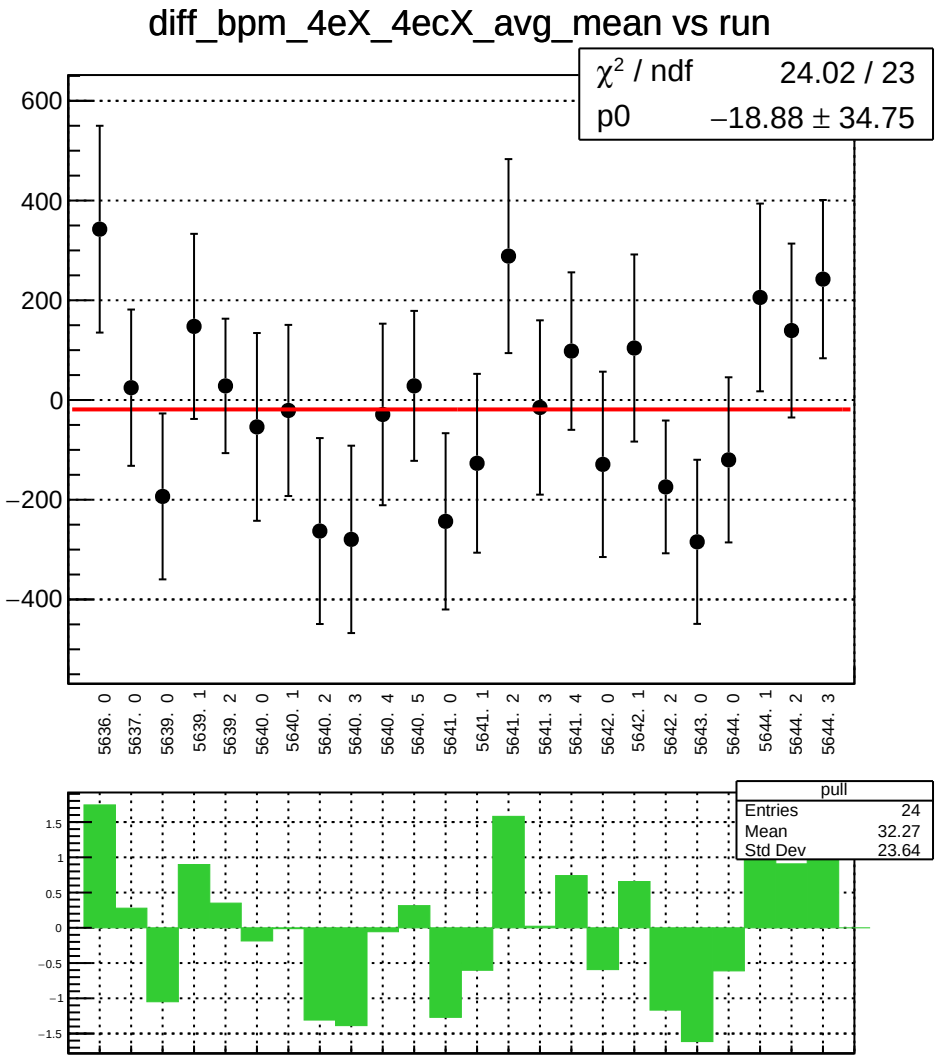

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 808.5 / 23
p0 1.703e+04 ± 24.55
18500
18000
17500
17000
16500
16000
15500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

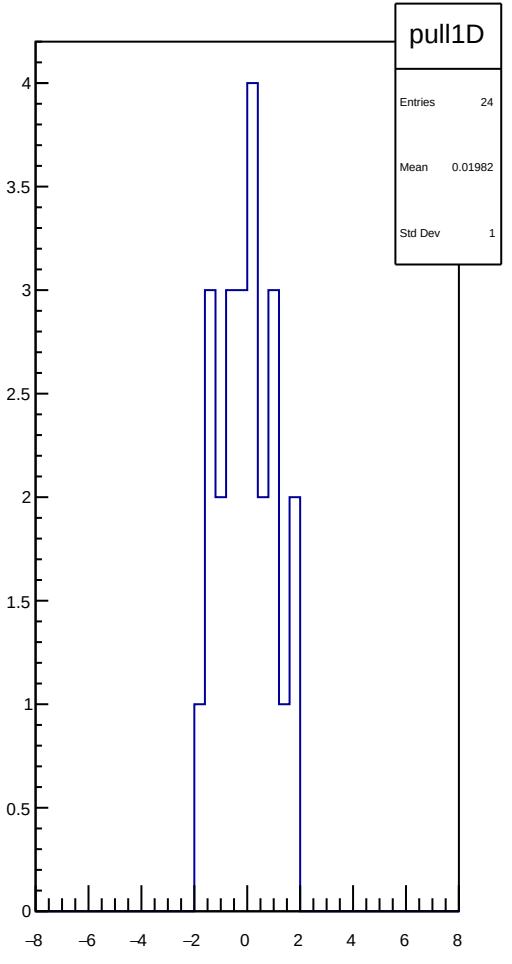

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 28.88 / 23
p0 −0.5961± 0.7523
10
5
0
−5
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

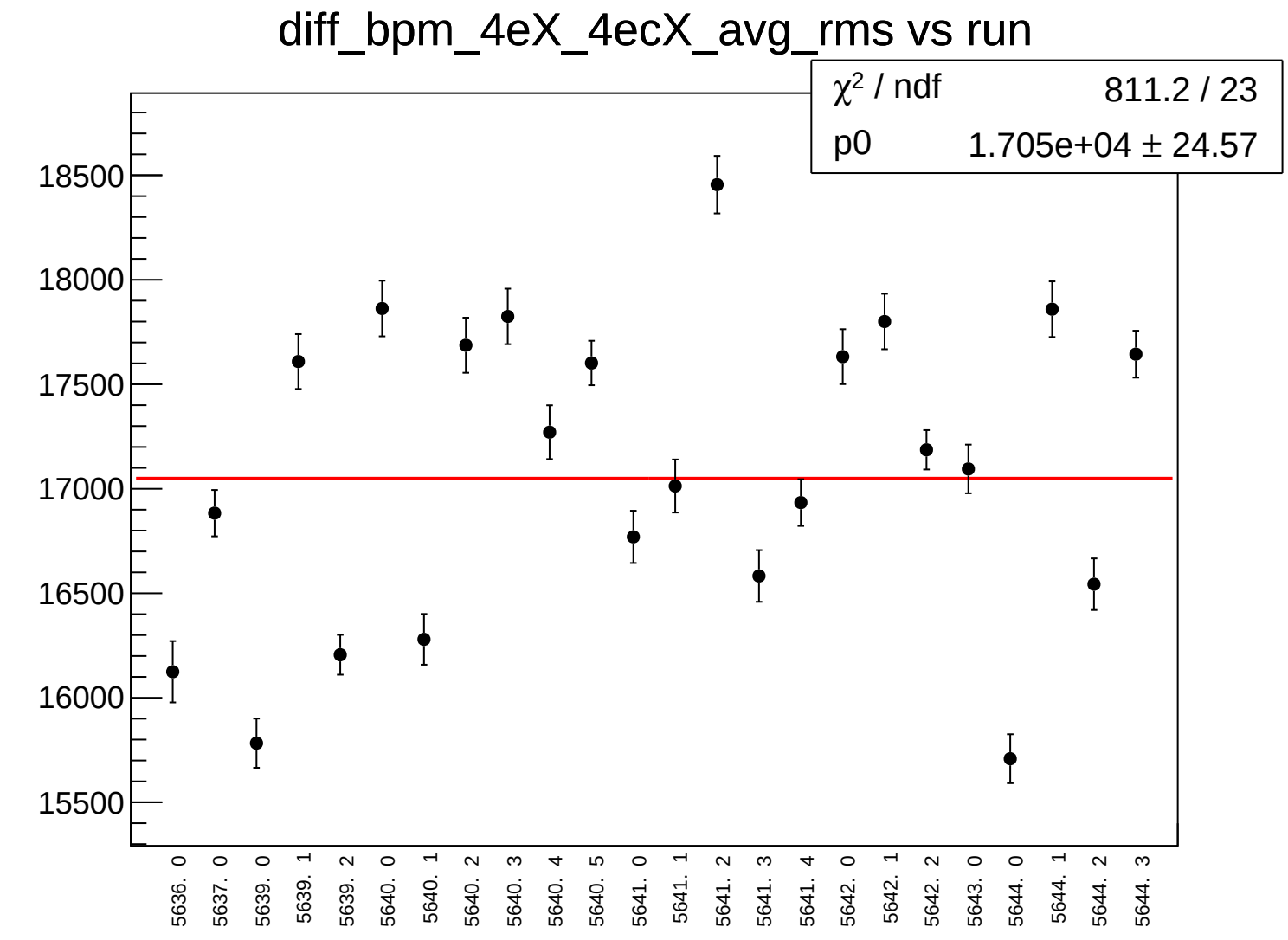

pull
Entries 24
Mean 5792
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

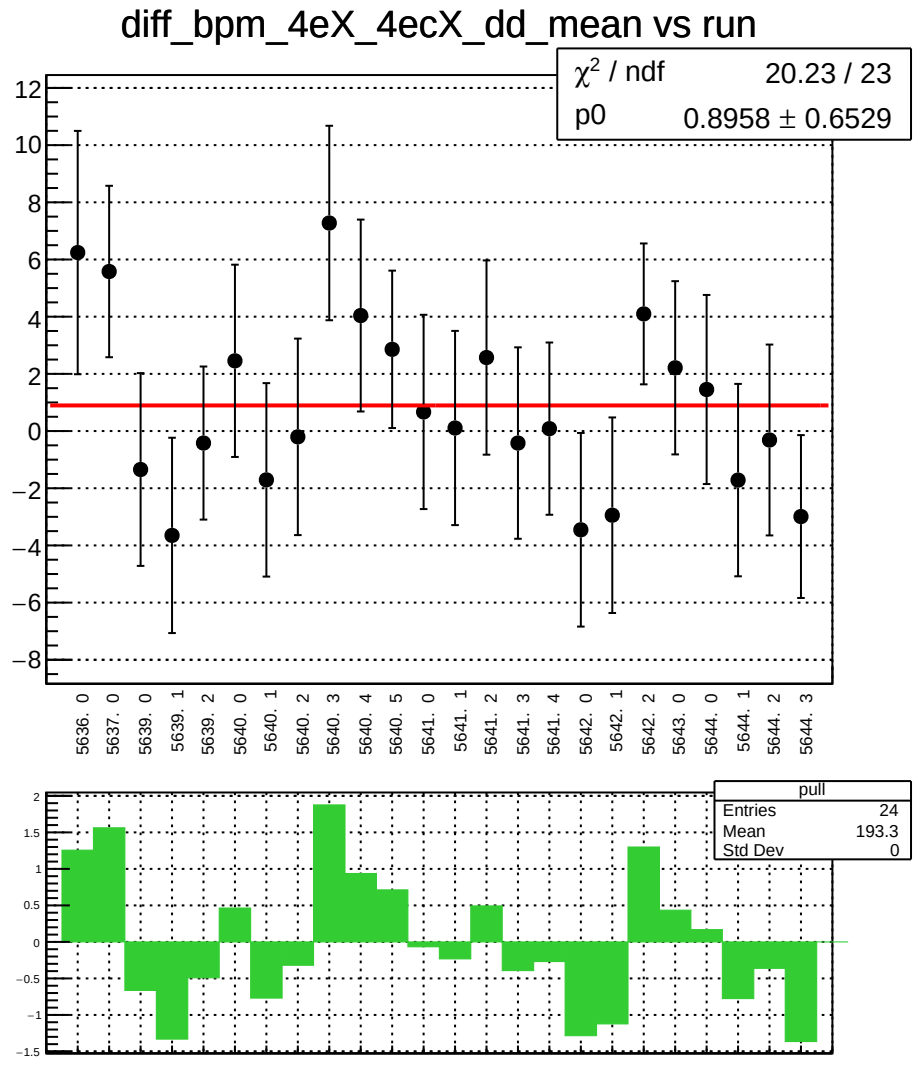

pull1D
Entries 24
Mean −0.0004814
Std Dev 1.097
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

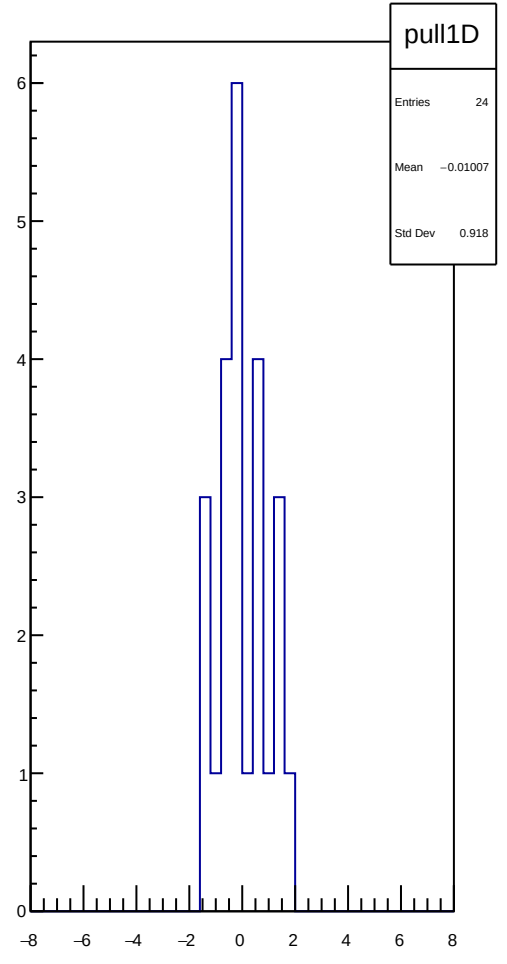

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 108.3 / 23
p0 369.3 ± 0.5319
385
380
375
370
365
360
355
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

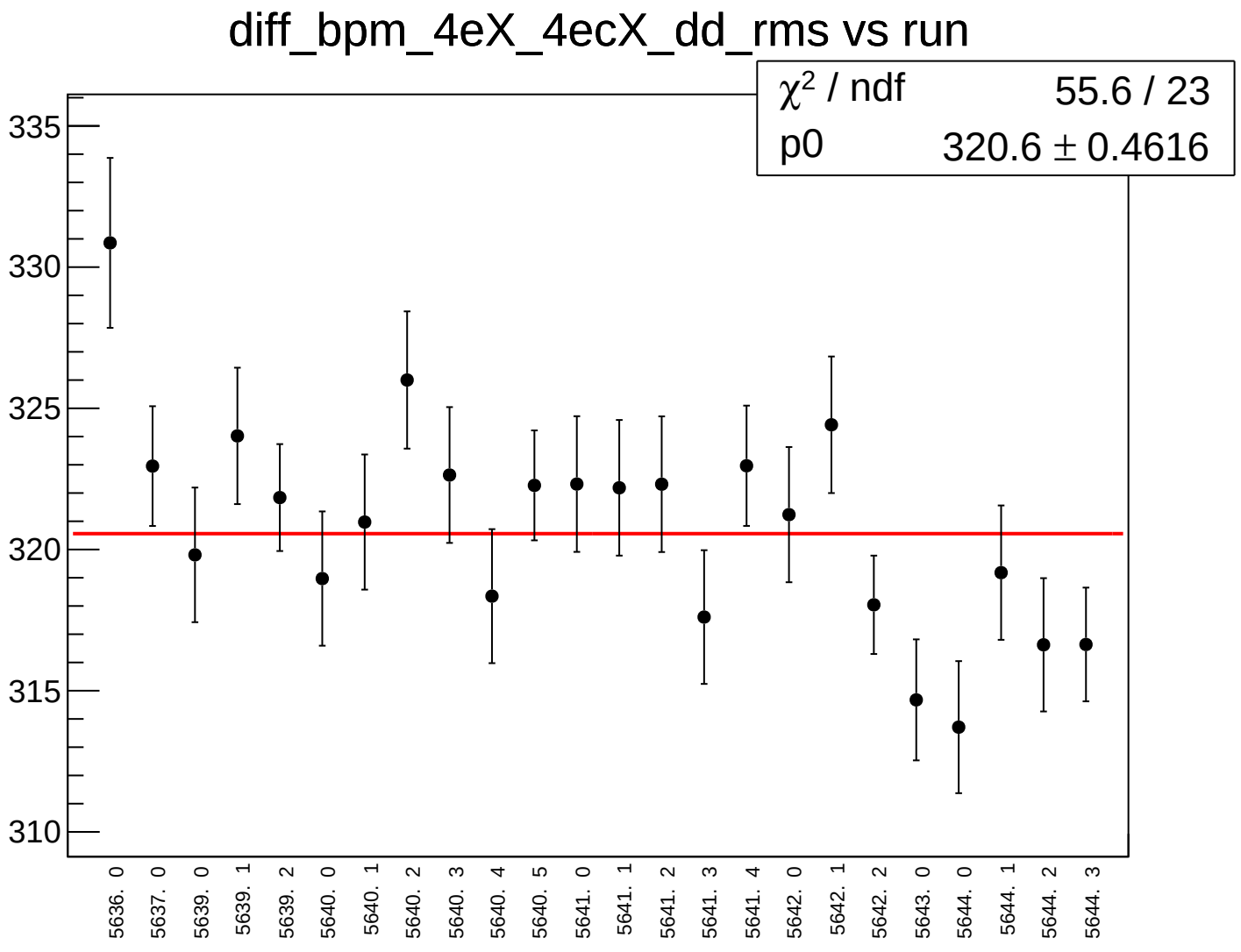

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 24.02 / 23
p0 −18.88 ± 34.75
600
400
200
0
−200
−400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 32.27
Std Dev 23.64
1.5
1
0.5
0
−0.5
−1
−1.5

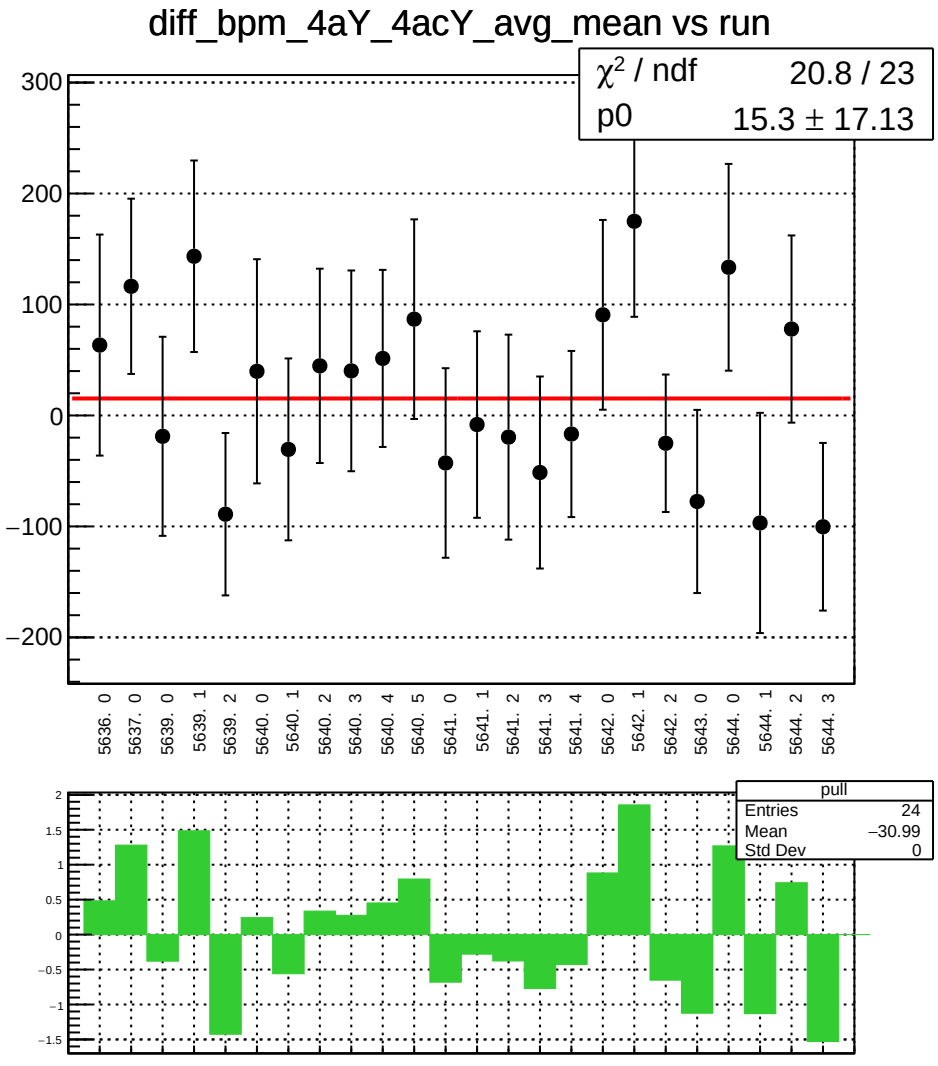

pull1D
Entries 24
Mean 0.01982
Std Dev 1
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

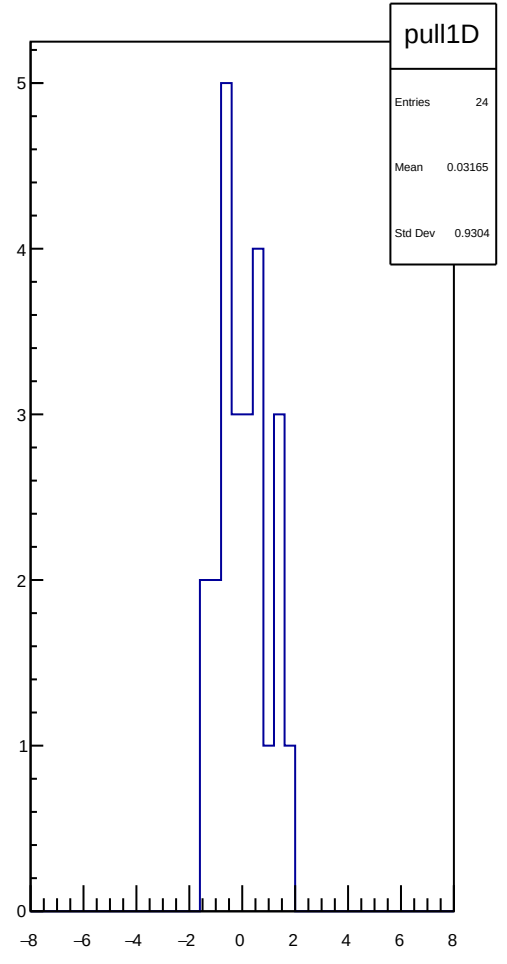

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 811.2 / 23
p0 1.705e+04 ± 24.57
18500
18000
17500
17000
16500
16000
15500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

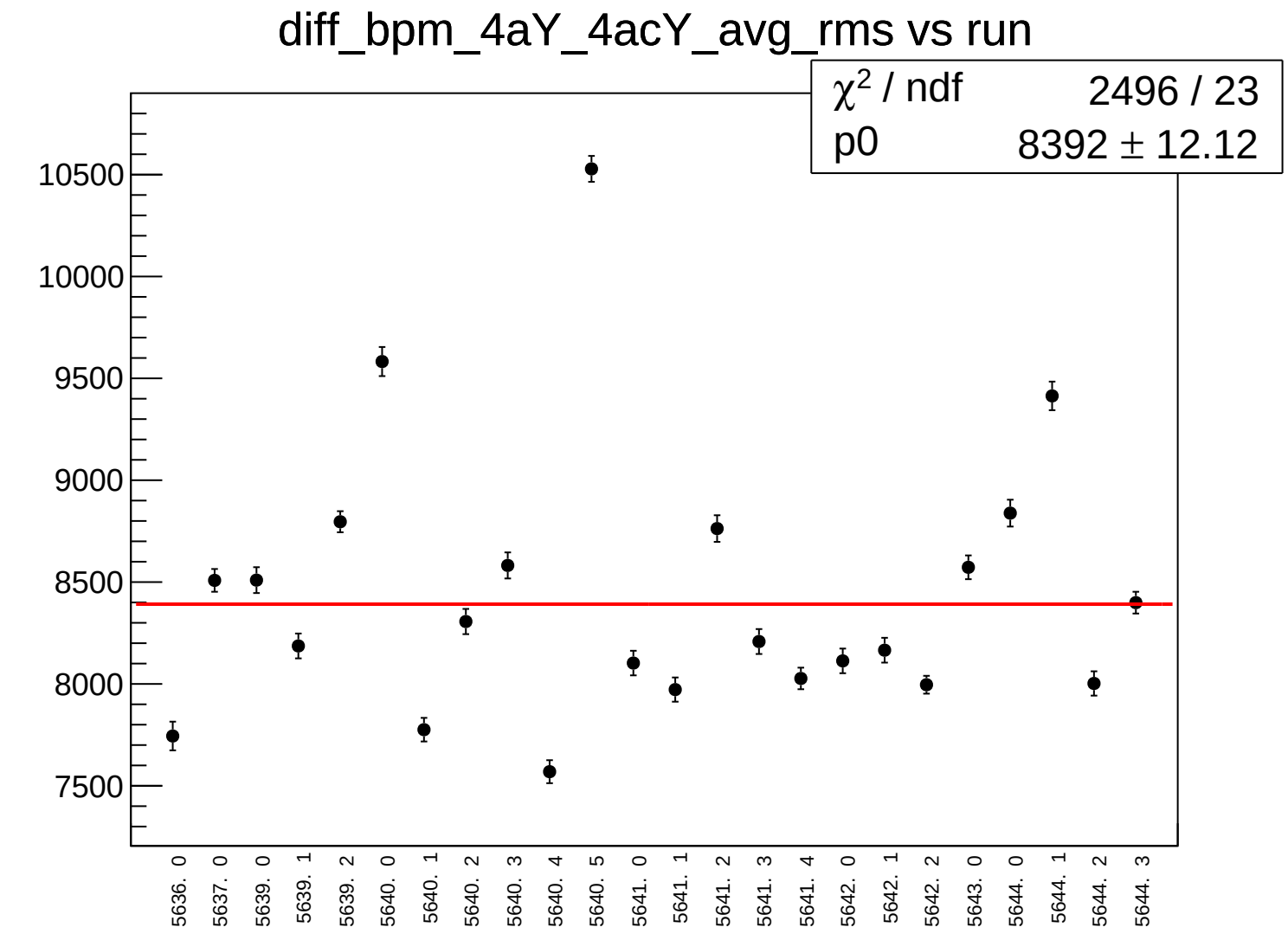

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 20.23 / 23
p0 0.8958 ± 0.6529
12
10
8
6
4
2
0
−2
−4
−6
−8
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 193.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

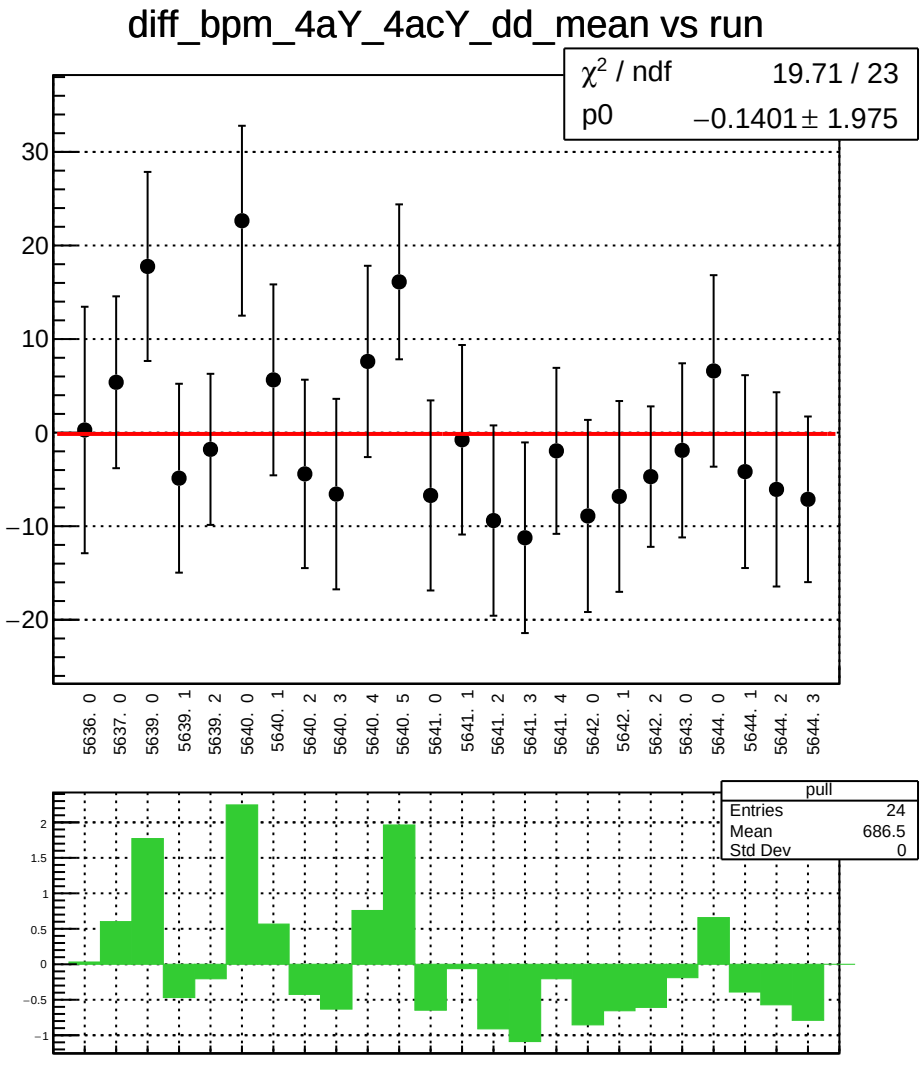

pull1D
Entries 24
Mean −0.01007
Std Dev 0.918
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

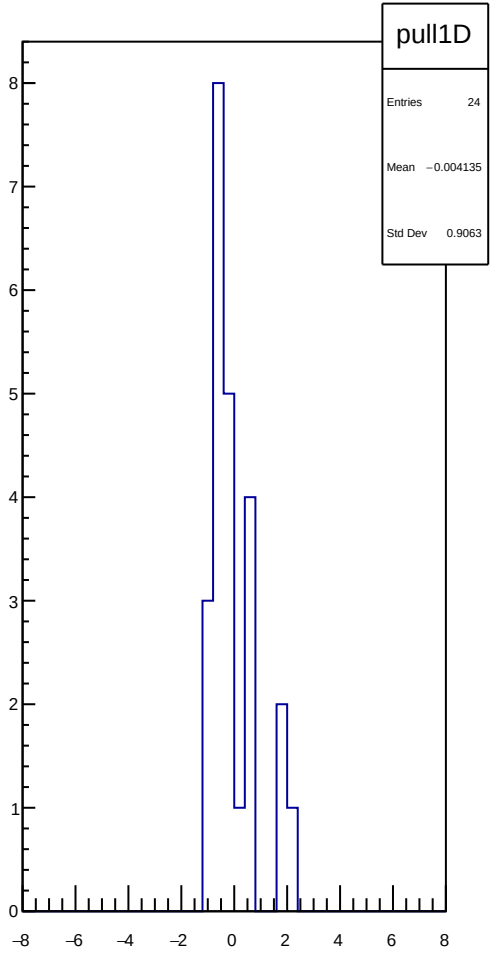

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 55.6 / 23
p0 320.6 ± 0.4616
335
330
325
320
315
310
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

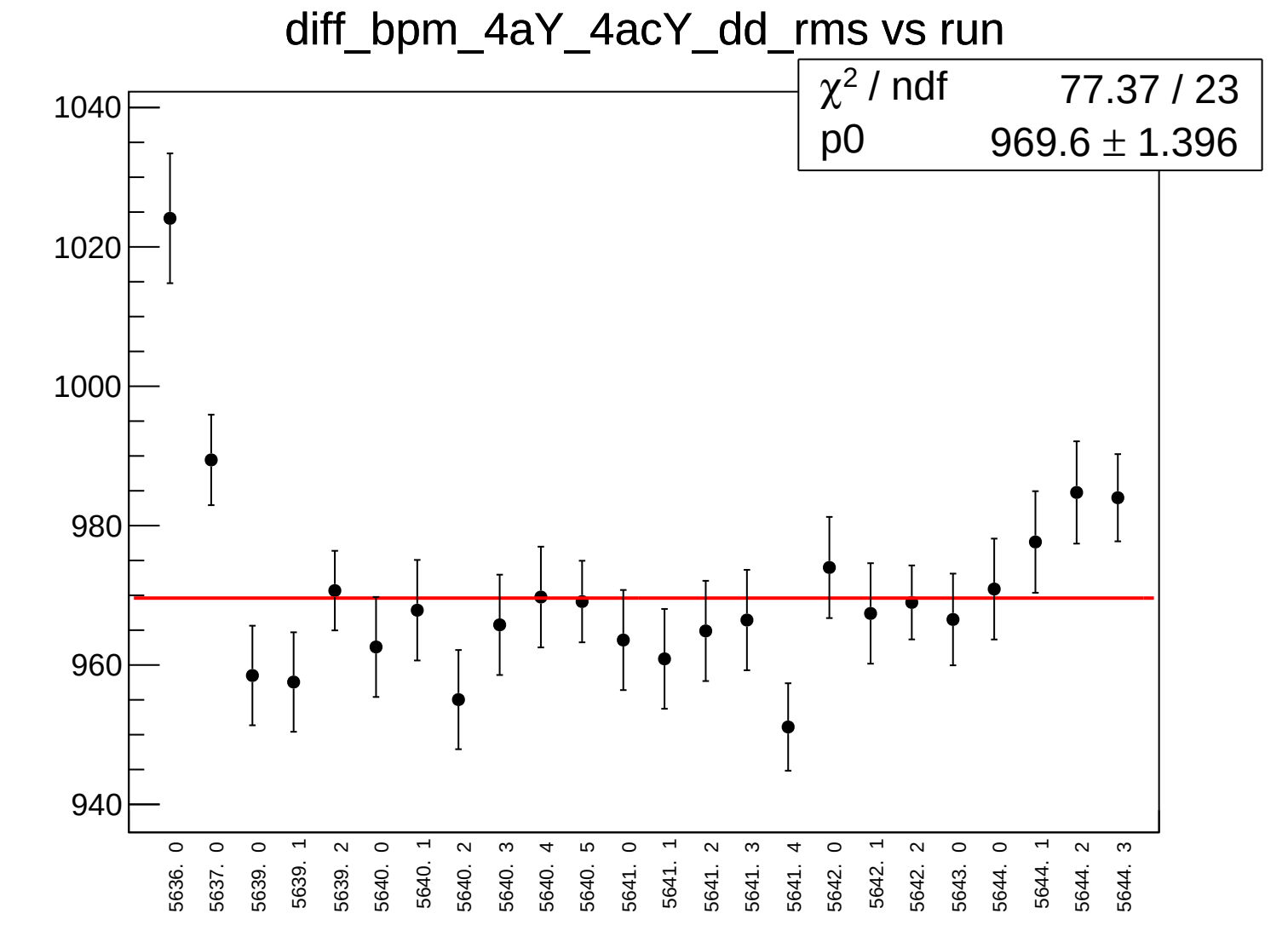

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 20.8 / 23
p0 15.3 ± 17.13
300
200
100
0
−100
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −30.99
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

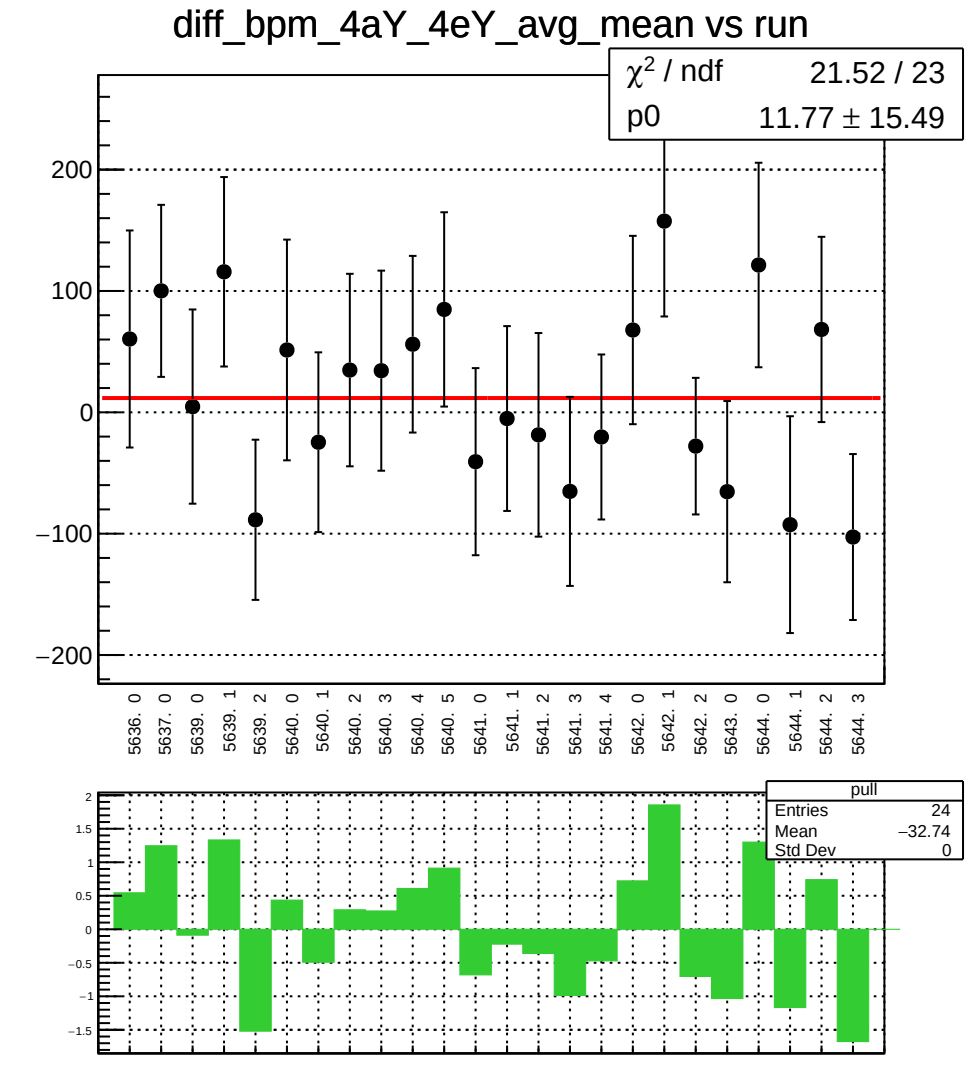

pull1D
Entries 24
Mean 0.03165
Std Dev 0.9304
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

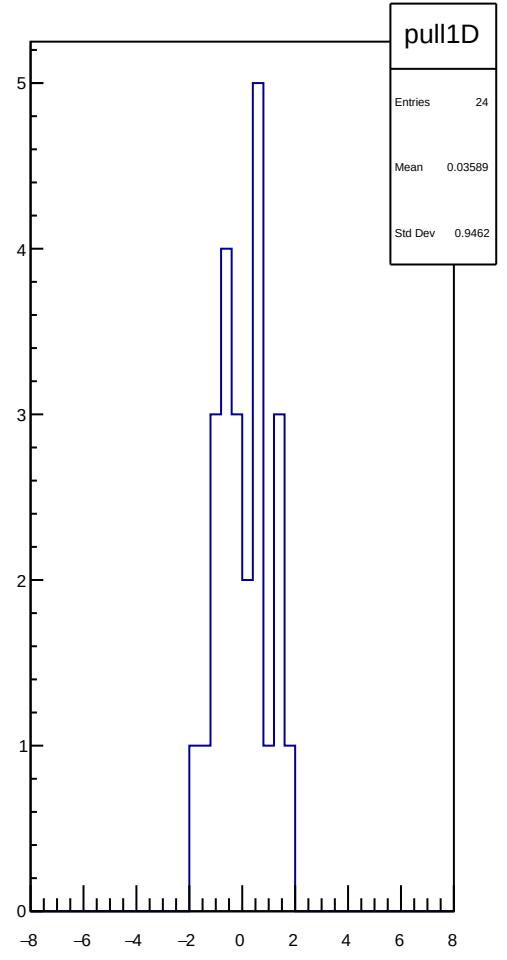

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 2496 / 23
p0 8392 ± 12.12
10500
10000
9500
9000
8500
8000
7500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

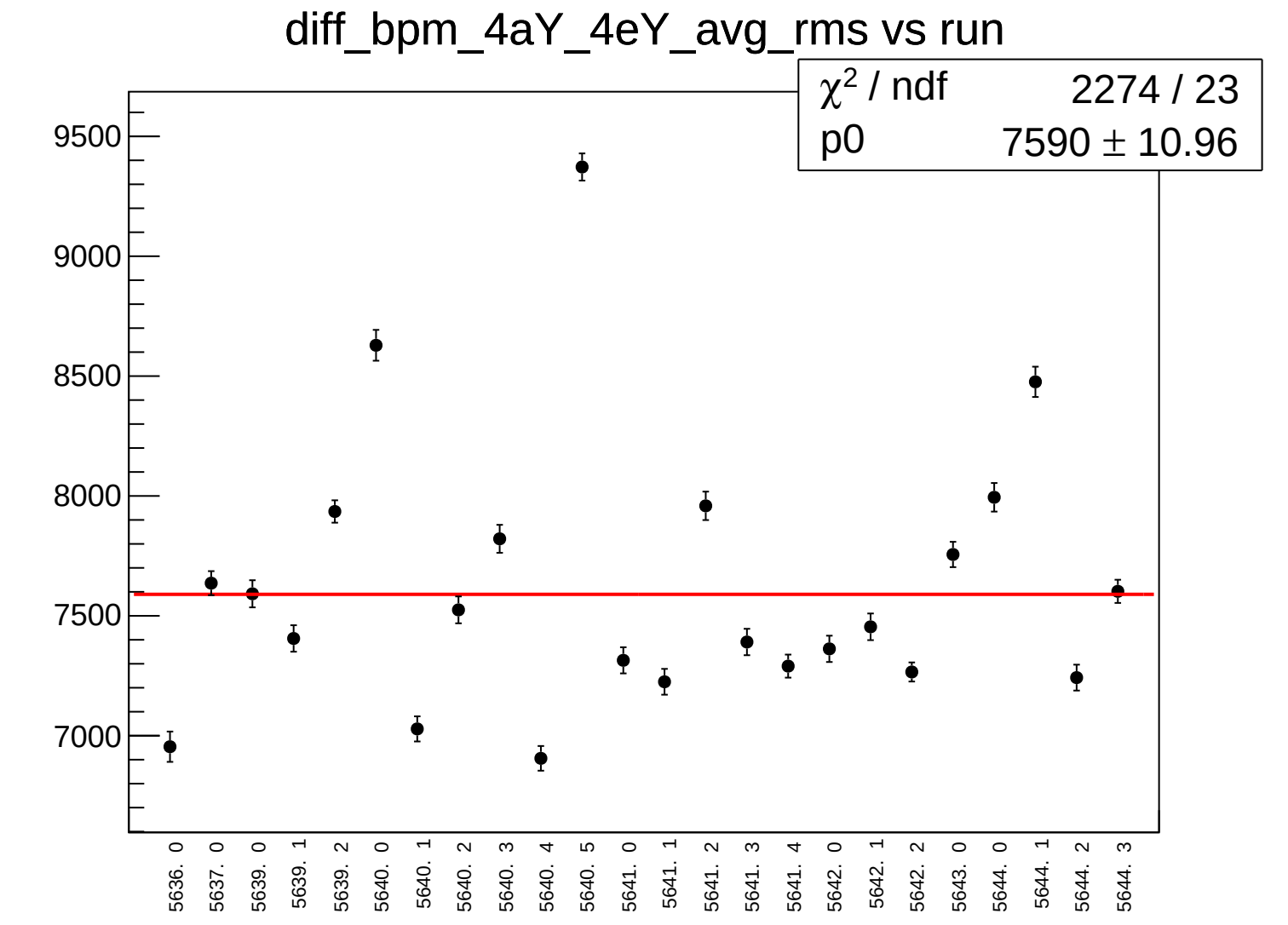

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 19.71 / 23
p0 −0.1401 ± 1.975
30
20
10
0
−10
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 686.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

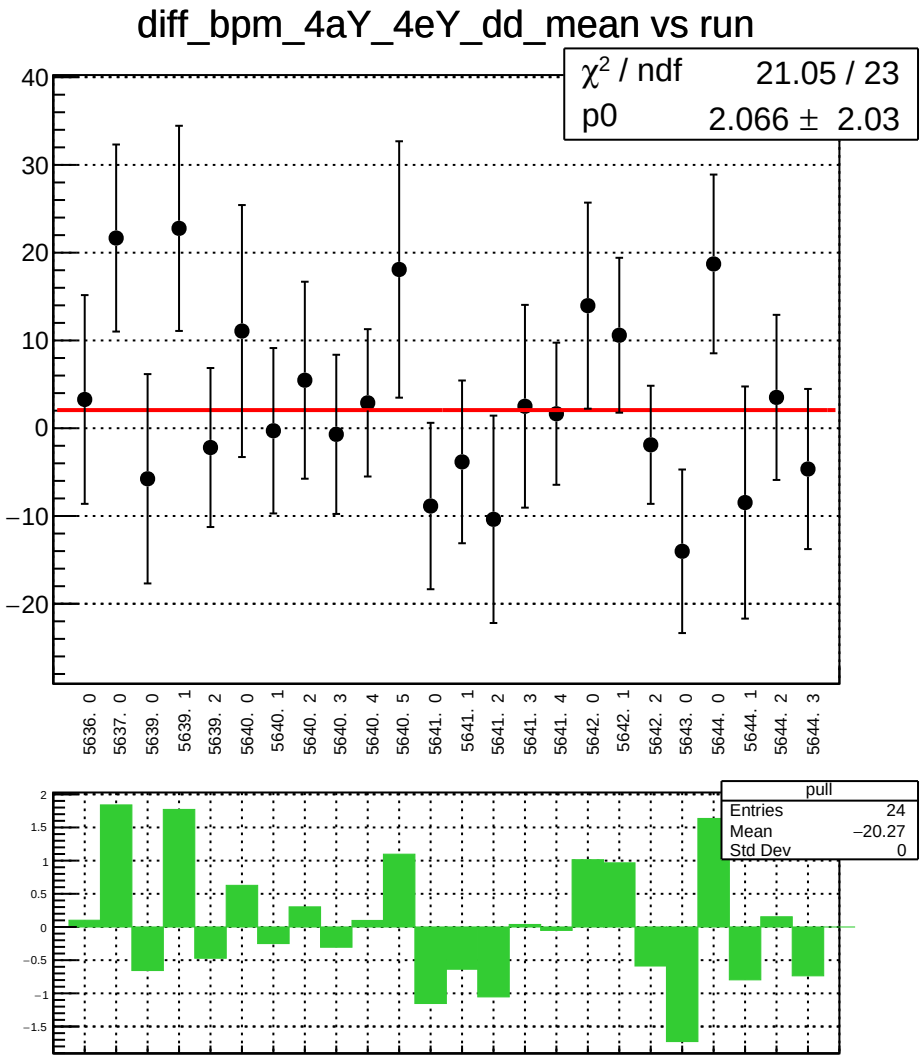

pull1D
Entries 24
Mean −0.004135
Std Dev 0.9063
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

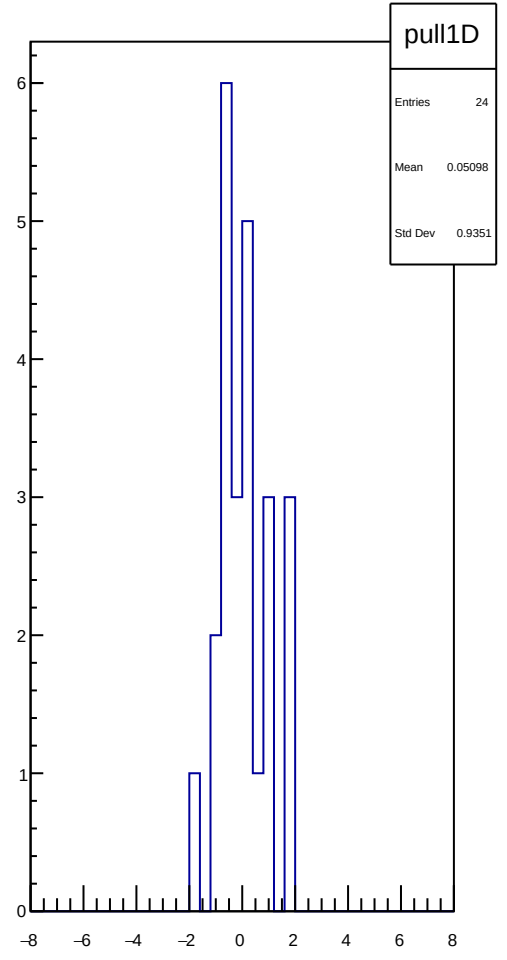

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 77.37 / 23
p0 969.6 ± 1.396
1040
1020
1000
980
960
940
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

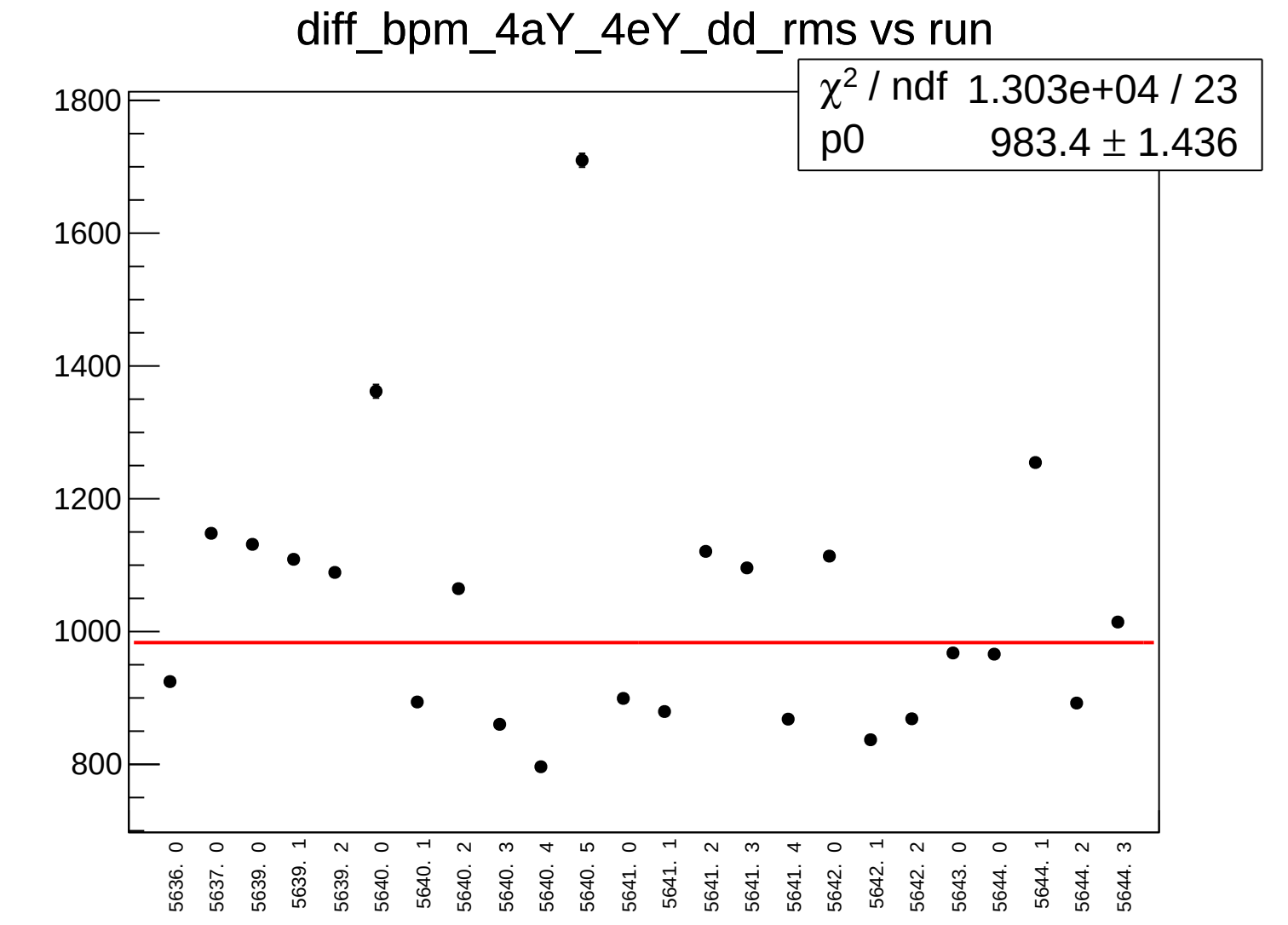

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 21.52 / 23
p0 11.77 ± 15.49
200
100
0
−100
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −32.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

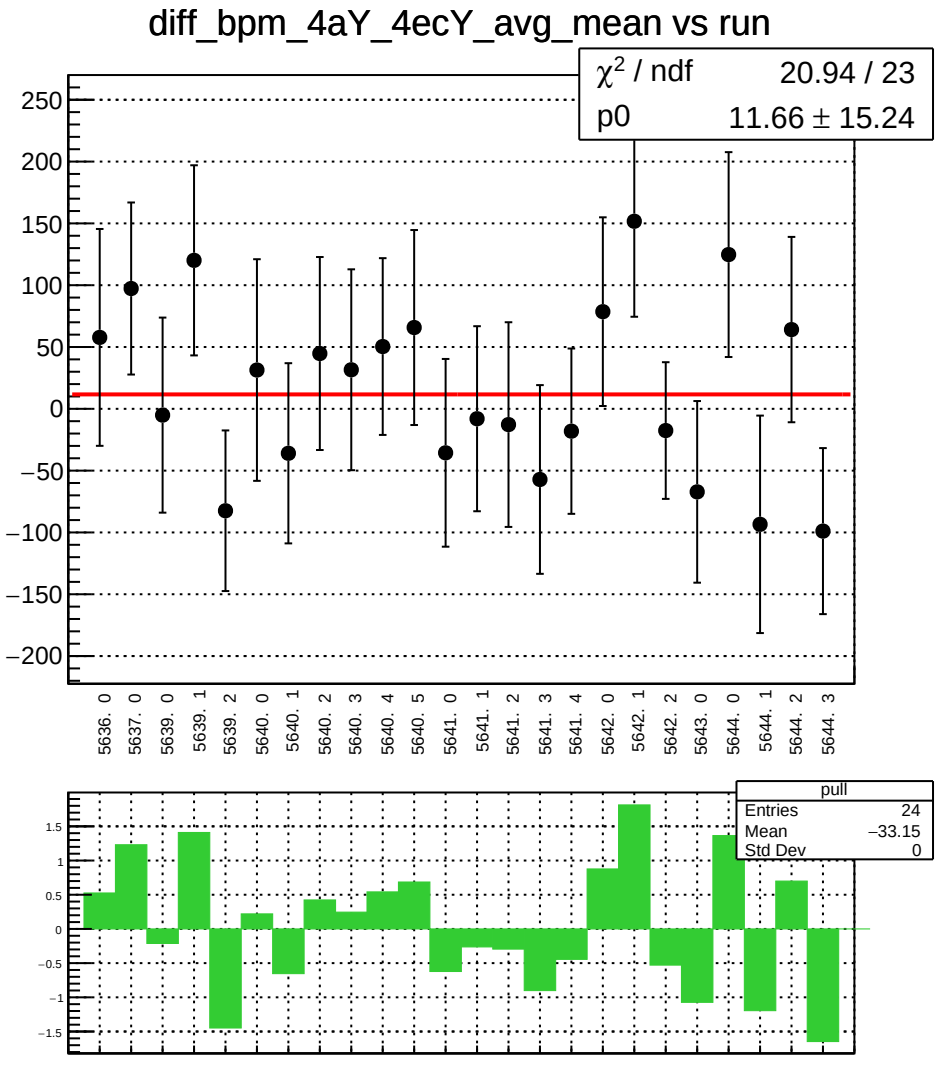

pull1D
Entries 24
Mean 0.03589
Std Dev 0.9462
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

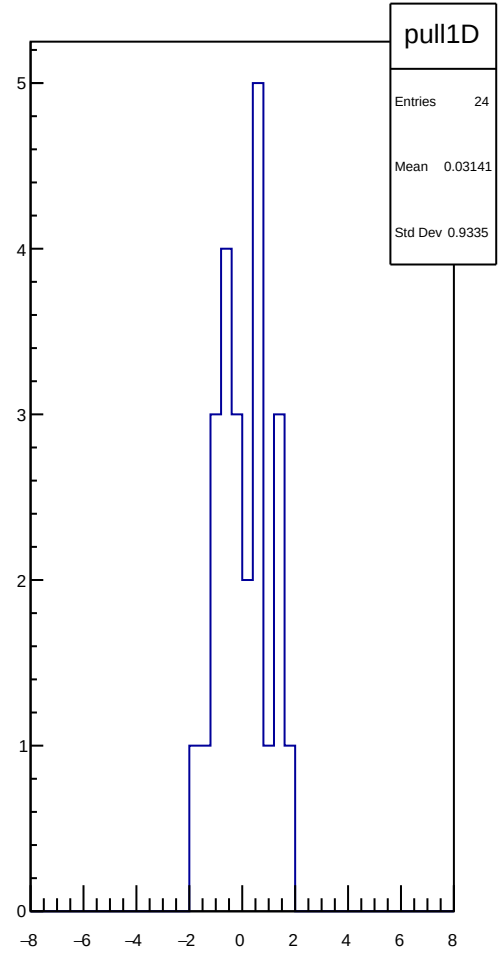

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 2274 / 23
p0 7590 ± 10.96
9500
9000
8500
8000
7500
7000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

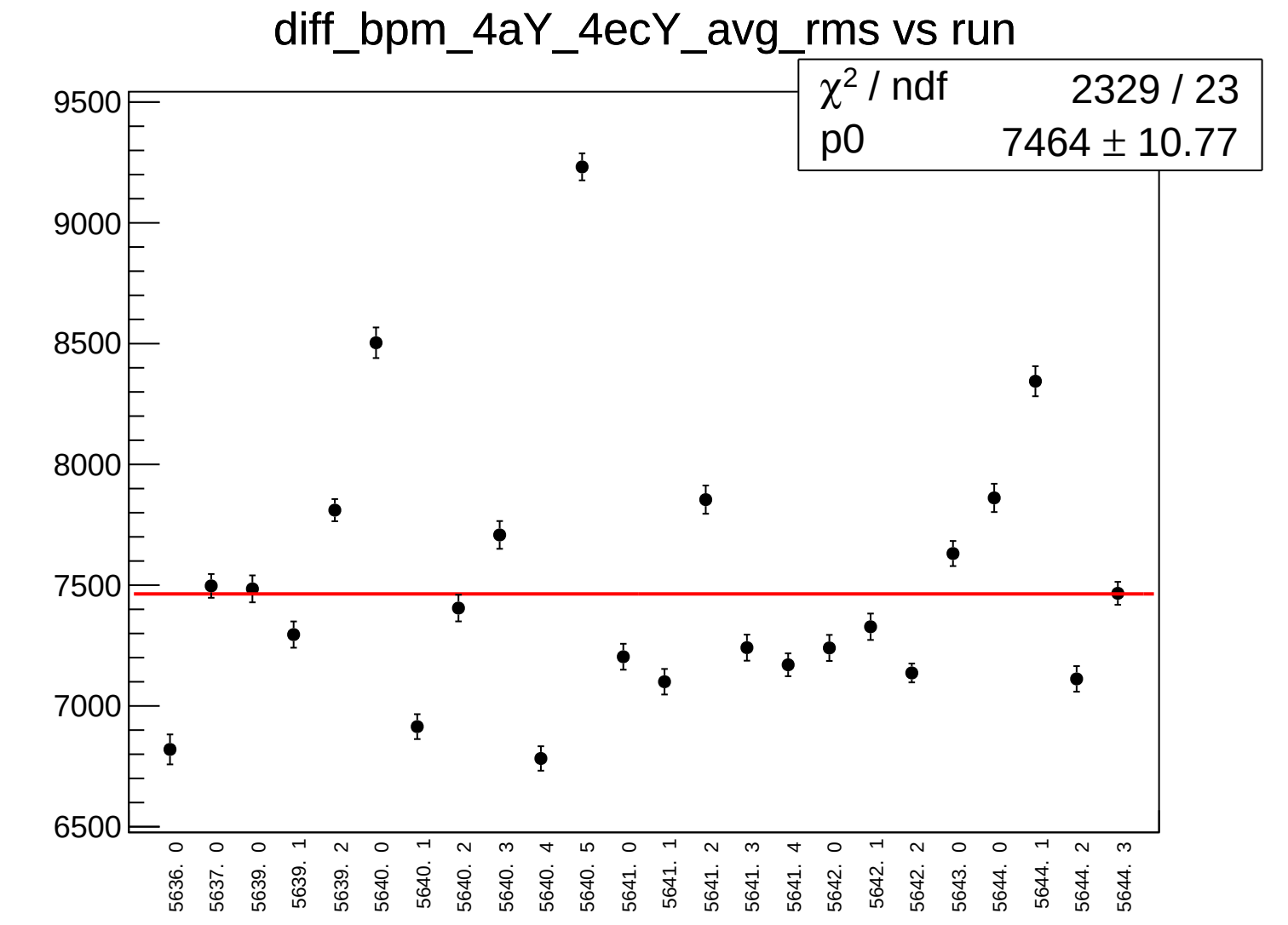

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 21.05 / 23
p0 2.066 ± 2.03
40
30
20
10
0
−10
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −20.27
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

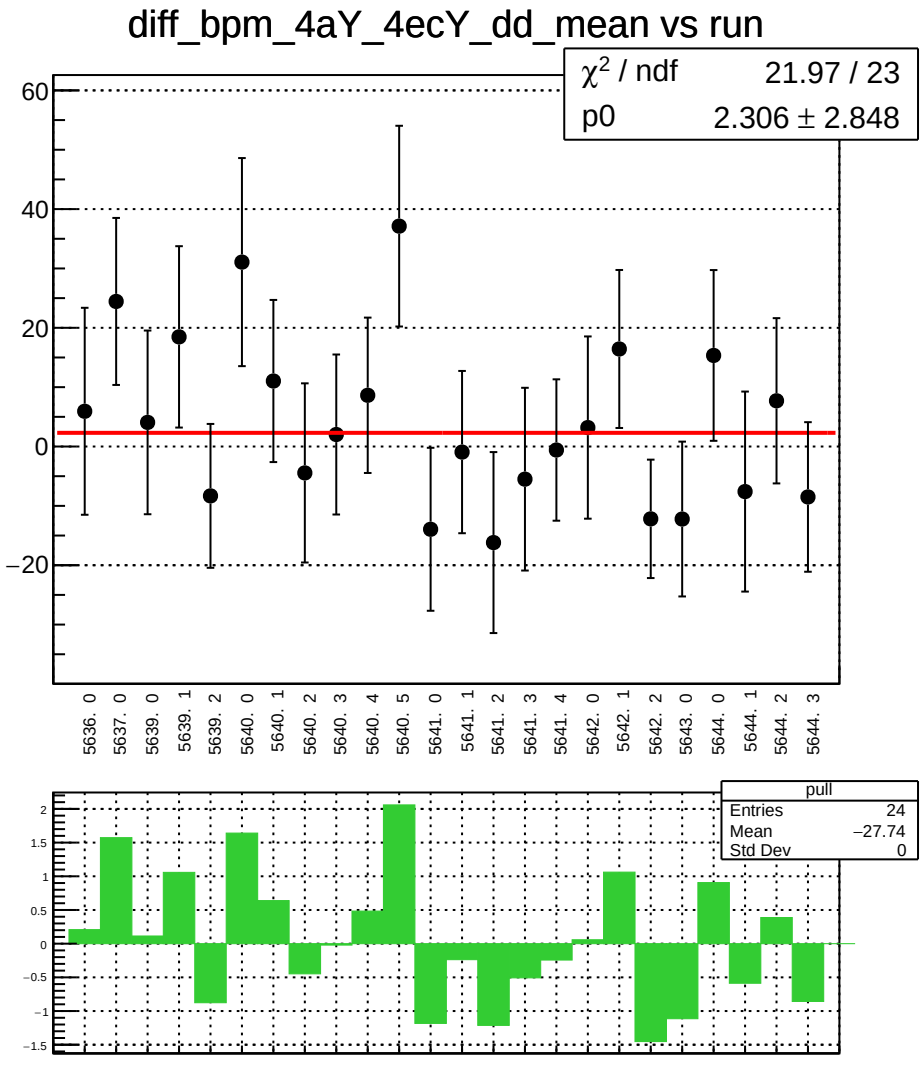

pull1D
Entries 24
Mean 0.05098
Std Dev 0.9351
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

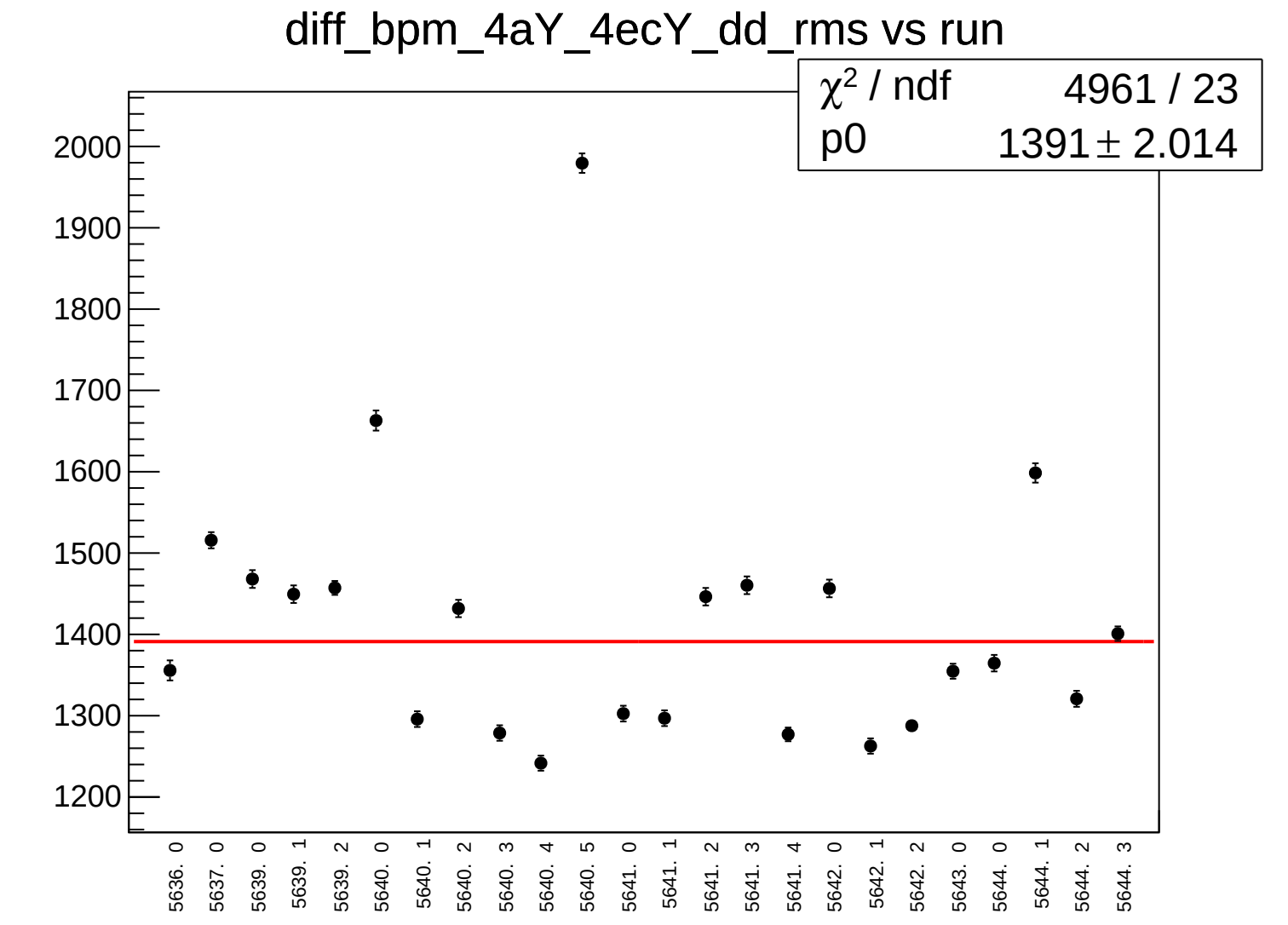

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 1.303e+04 / 23
p0 983.4 ± 1.436
1800
1600
1400
1200
1000
800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

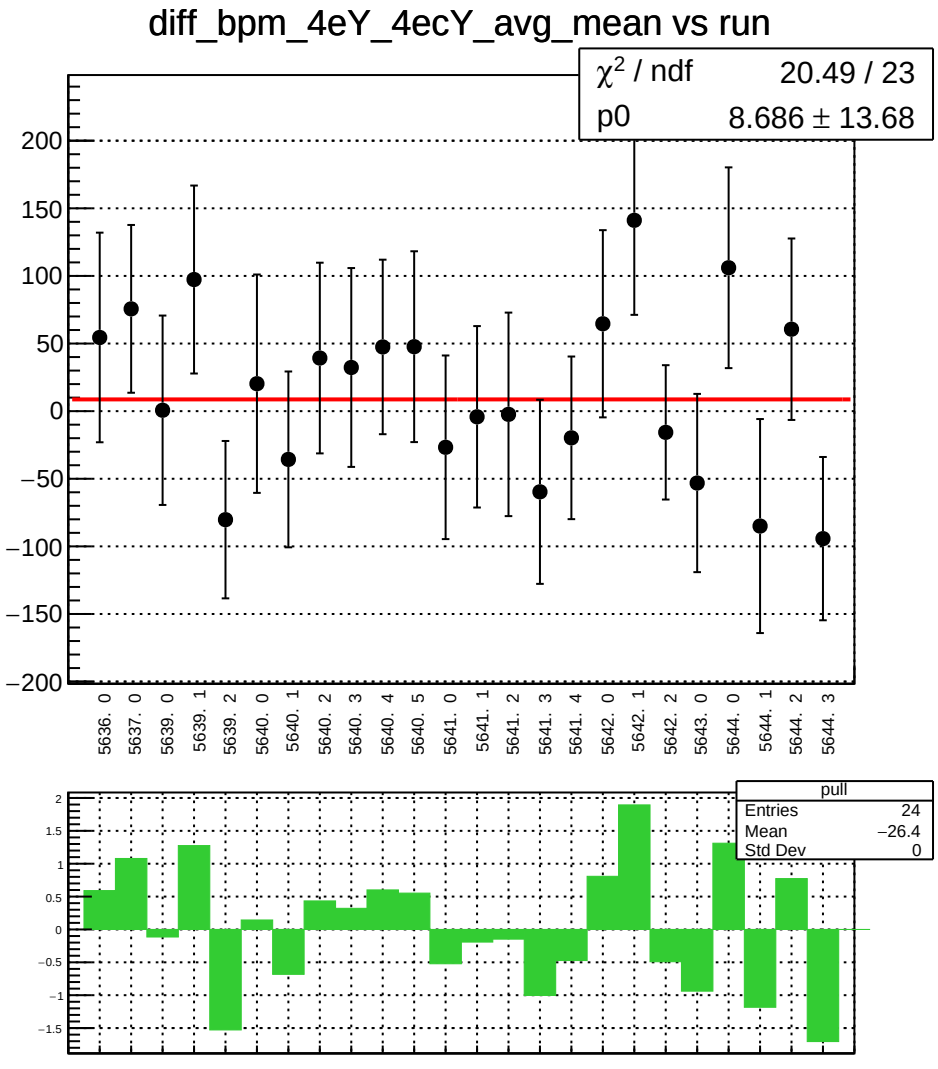

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 20.94 / 23
p0 11.66 ± 15.24
250
200
150
100
50
0
−50
−100
−150
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −33.15
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

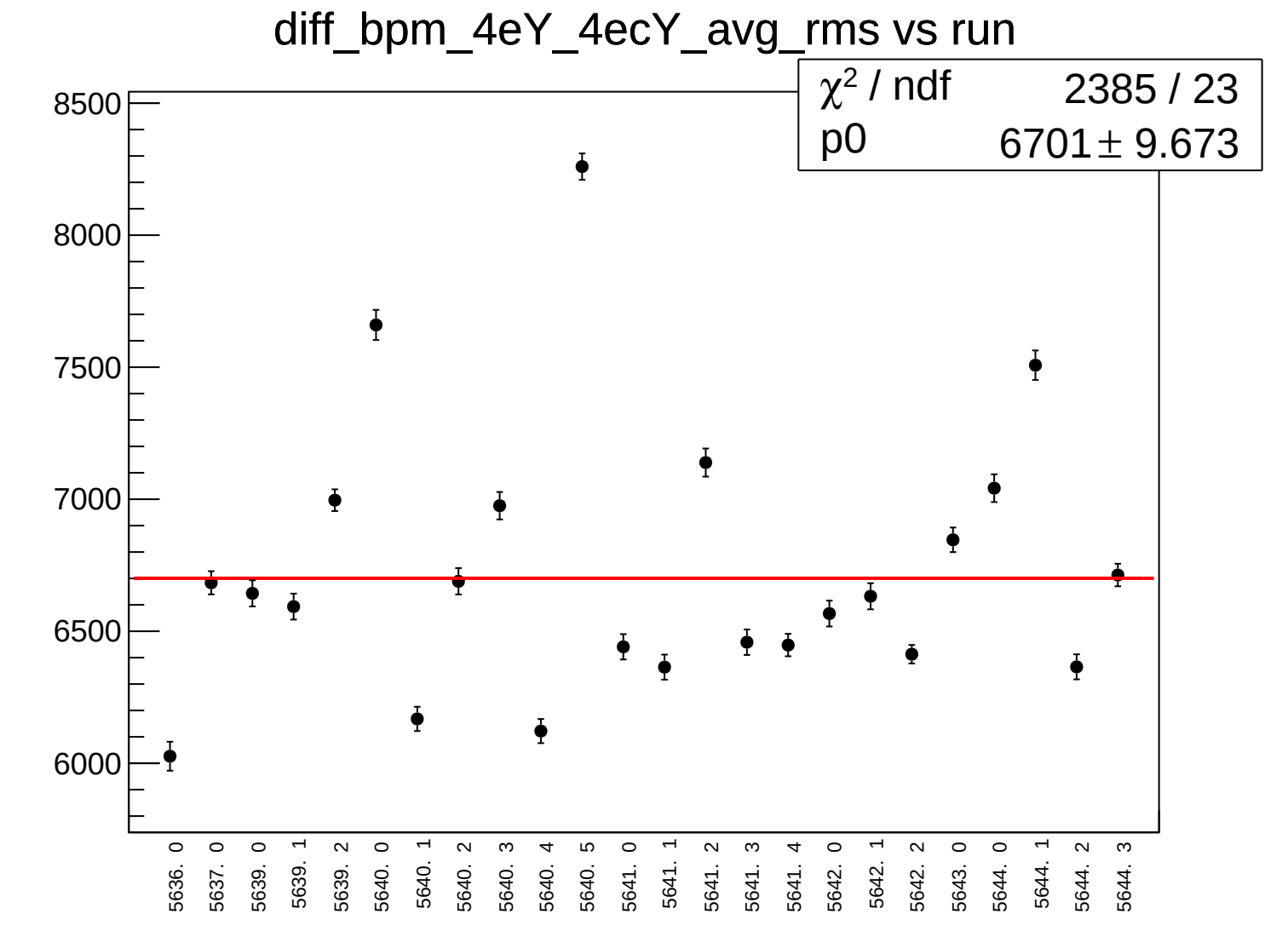

pull1D
Entries 24
Mean 0.03141
Std Dev 0.9335
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

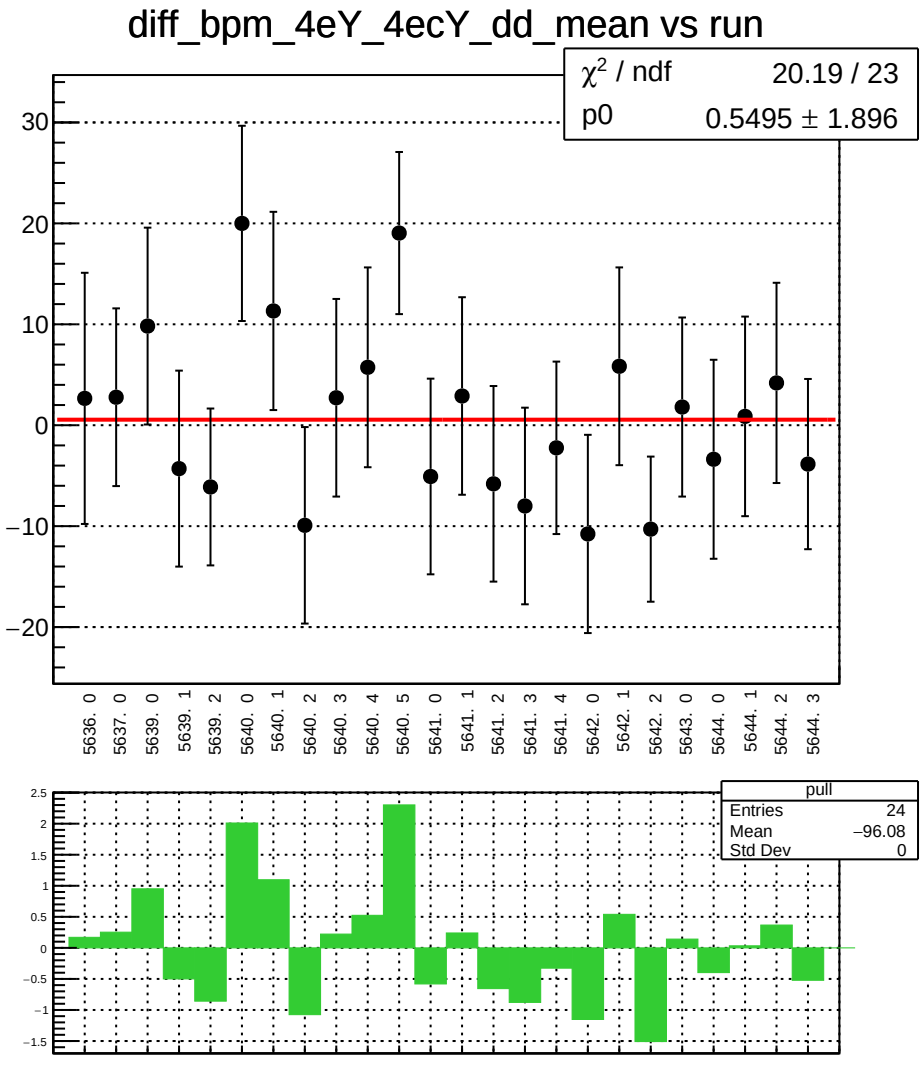

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 2329 / 23
p0 7464 ± 10.77
9500
9000
8500
8000
7500
7000
6500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

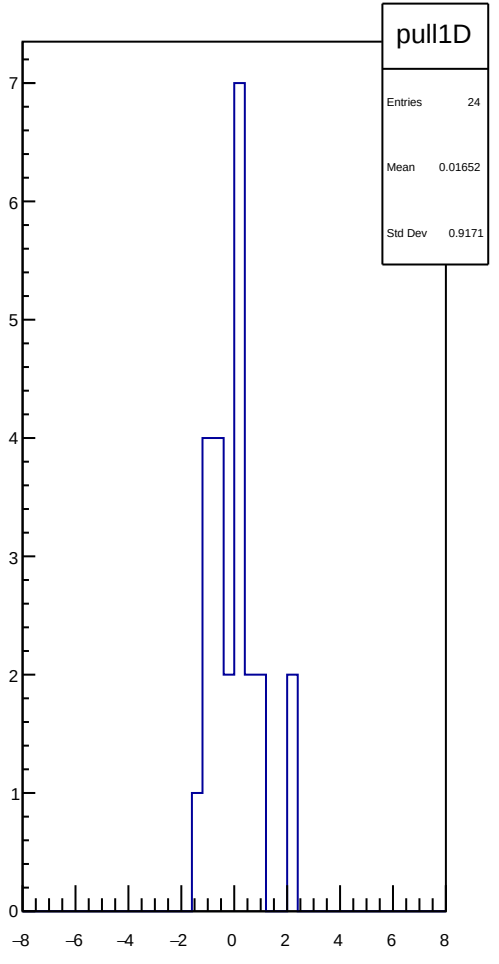

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 21.97 / 23
p0 2.306 ± 2.848
60
40
20
0
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −27.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.06043
Std Dev 0.9549
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

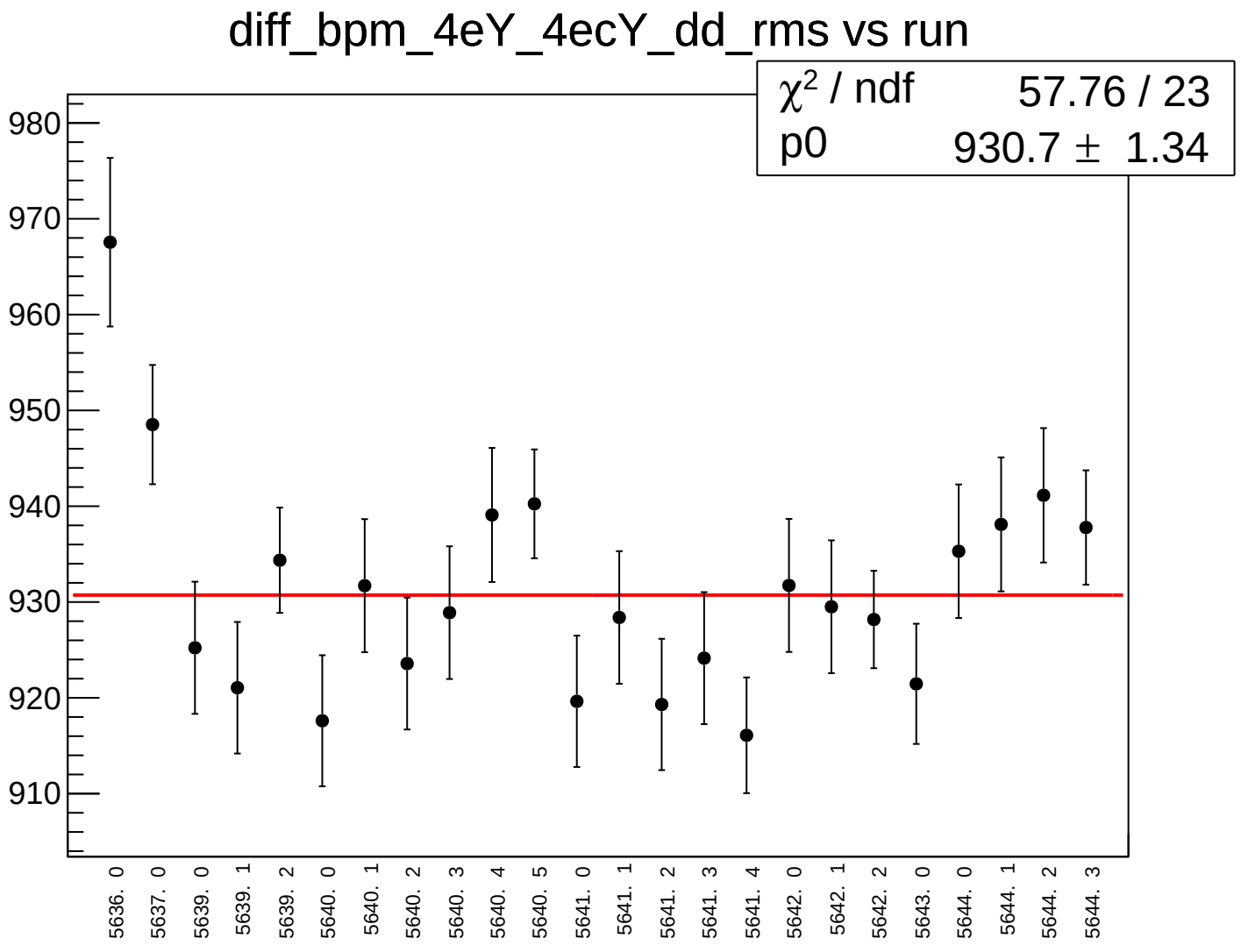

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 4961 / 23
p0 1391 ± 2.014
2000
1900
1800
1700
1600
1500
1400
1300
1200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

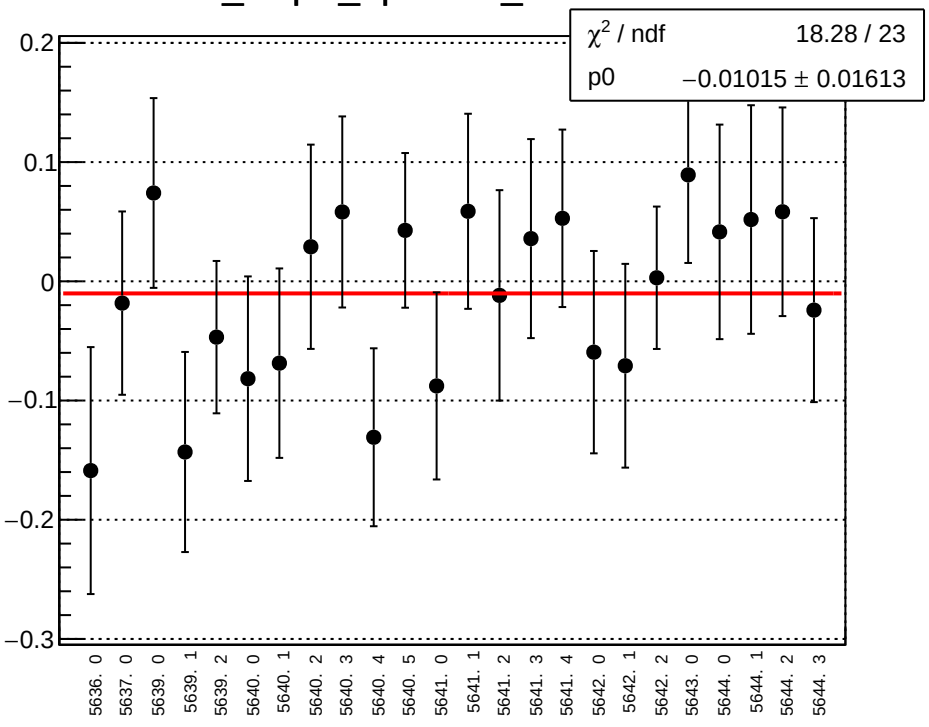

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 20.49 / 23
p0 8.686 ± 13.68
200
150
100
50
0
−50
−100
−150
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −26.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.03362
Std Dev 0.9233
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

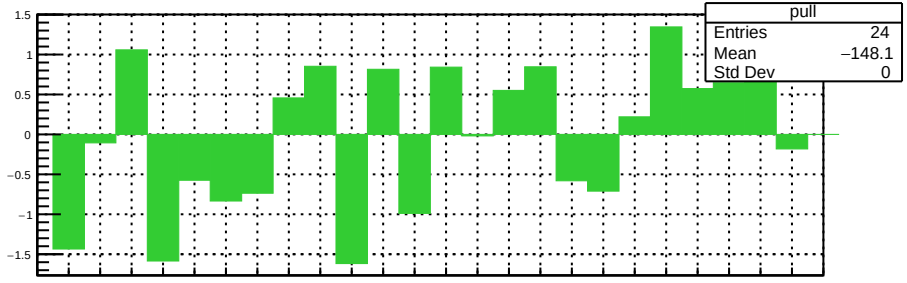

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 2385 / 23
p0 6701 ± 9.673
8500
8000
7500
7000
6500
6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

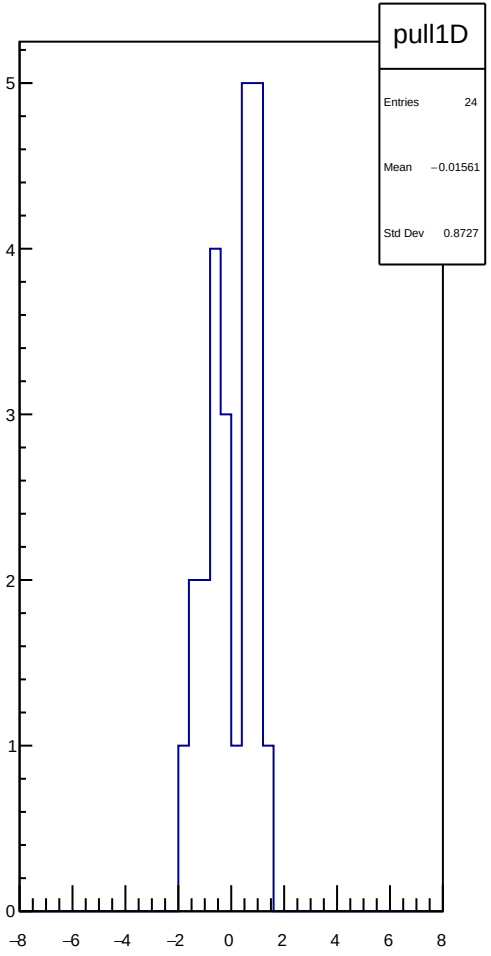

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 20.19 / 23
p0 0.5495 ± 1.896
30
20
10
0
−10
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −96.08
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

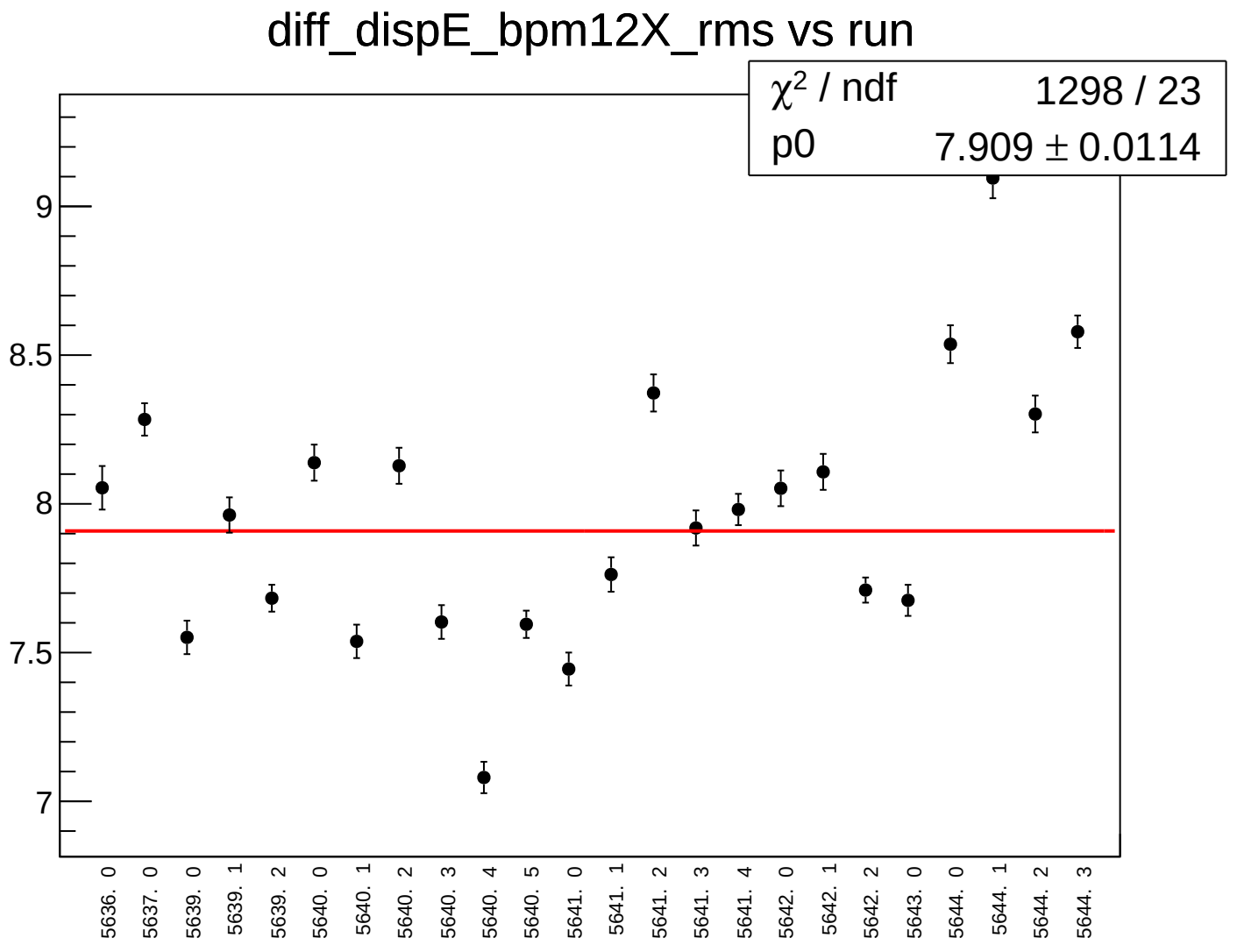

pull1D
Entries 24
Mean 0.01652
Std Dev 0.9171
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

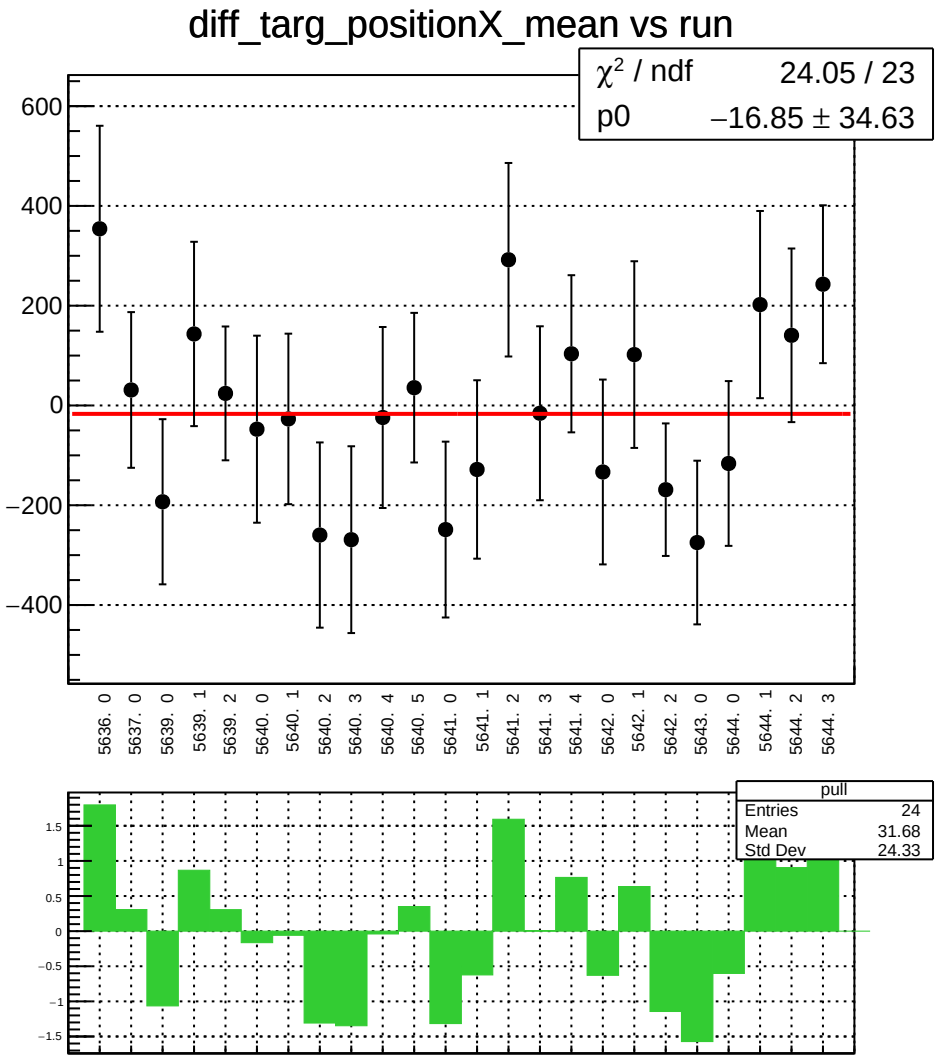

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 57.76 / 23
p0 930.7 ± 1.34
980
970
960
950
940
930
920
910
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

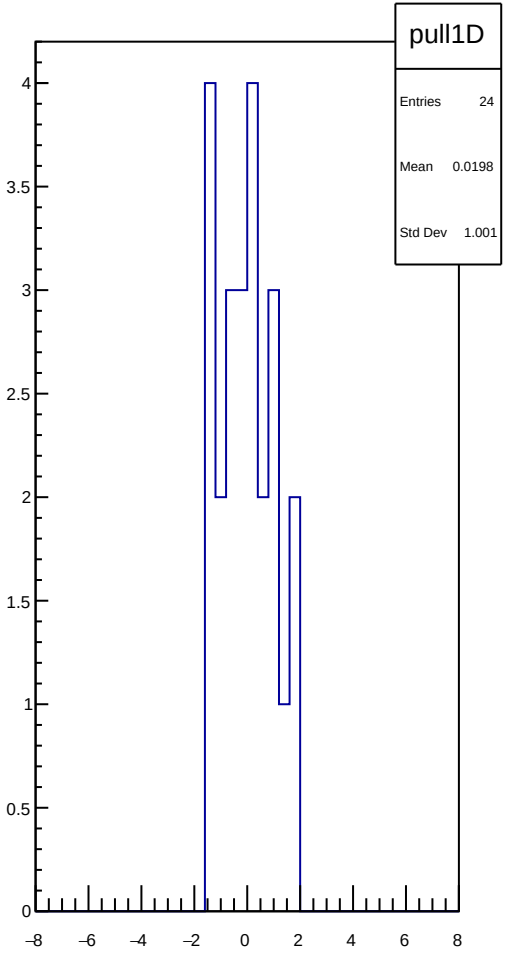

diff_dispE_bpm12X_mean vs run
χ² / ndf 18.28 / 23
p0 −0.01015 ± 0.01613
0.2
0.1
0
−0.1
−0.2
−0.3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

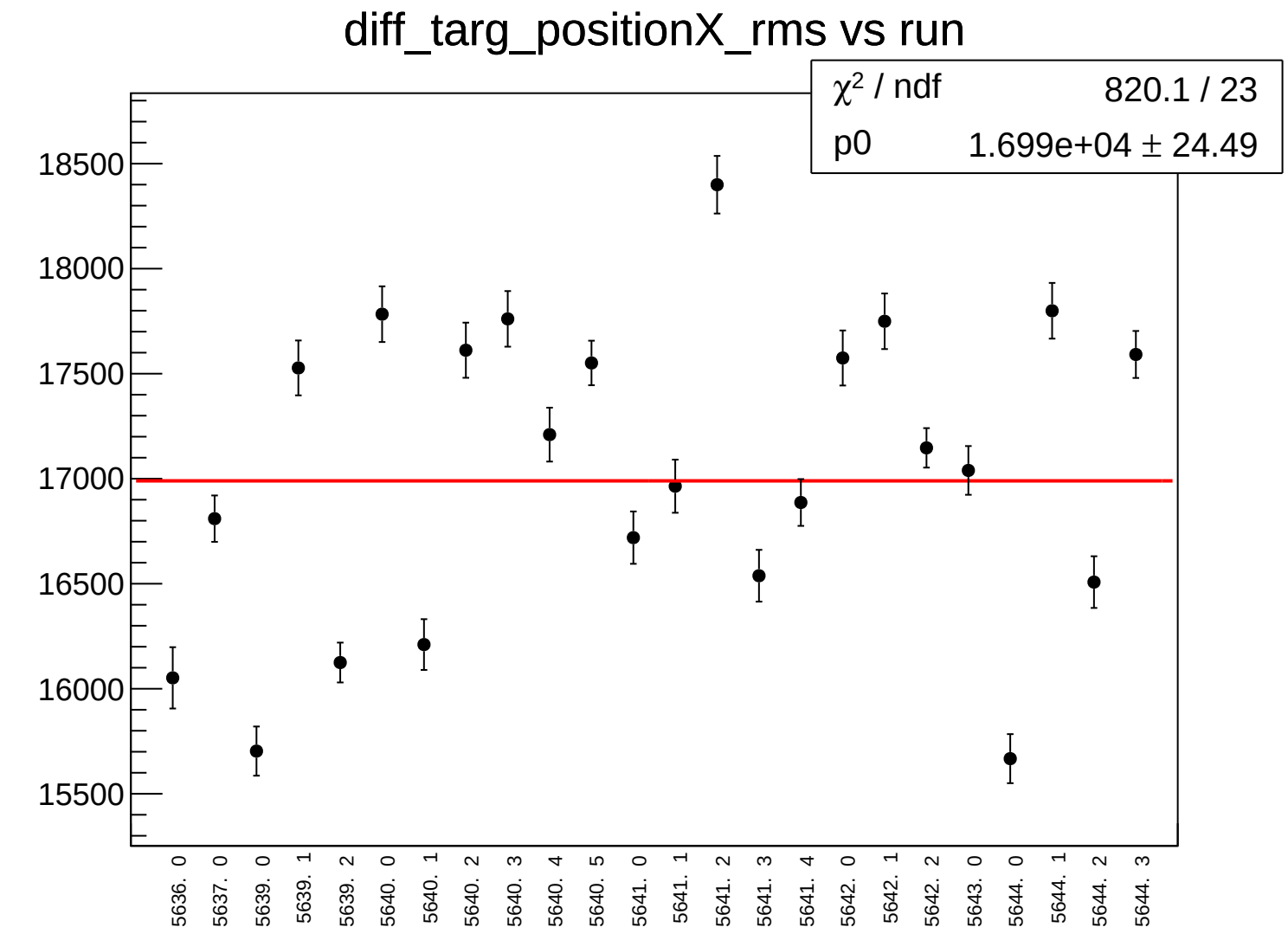

pull
Entries 24
Mean −148.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

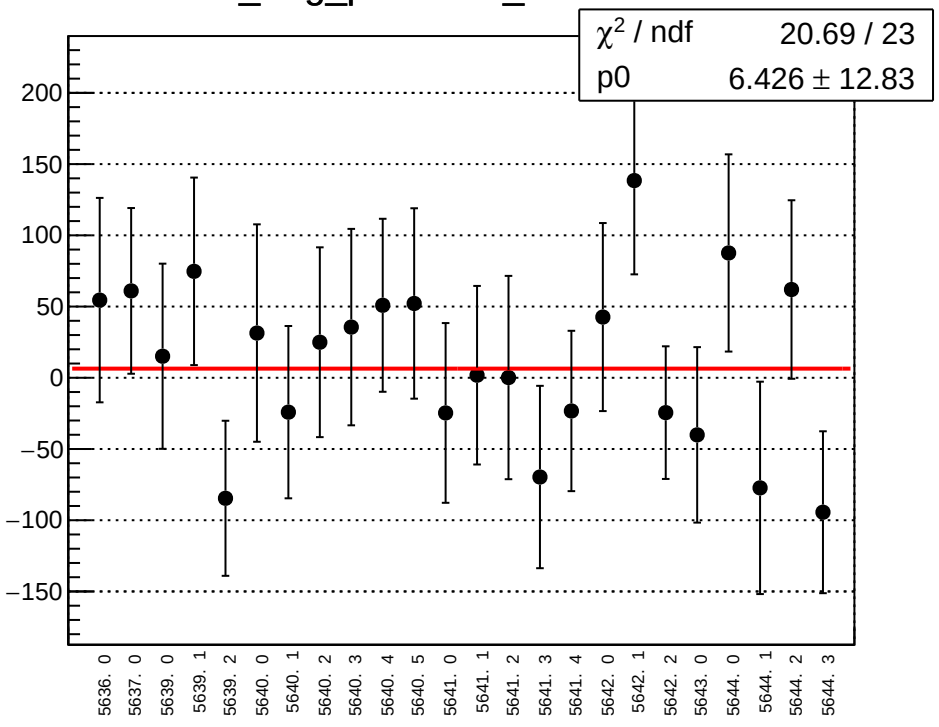

pull1D
Entries 24
Mean −0.01561
Std Dev 0.8727
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

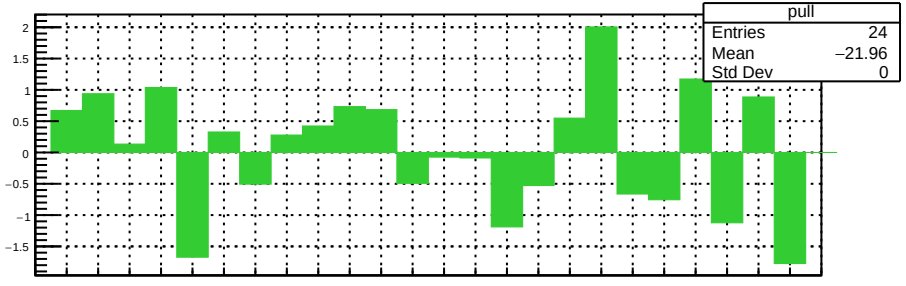

diff_dispE_bpm12X_rms vs run
χ² / ndf 1298 / 23
p0 7.909 ± 0.0114
9
8.5
8
7.5
7
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

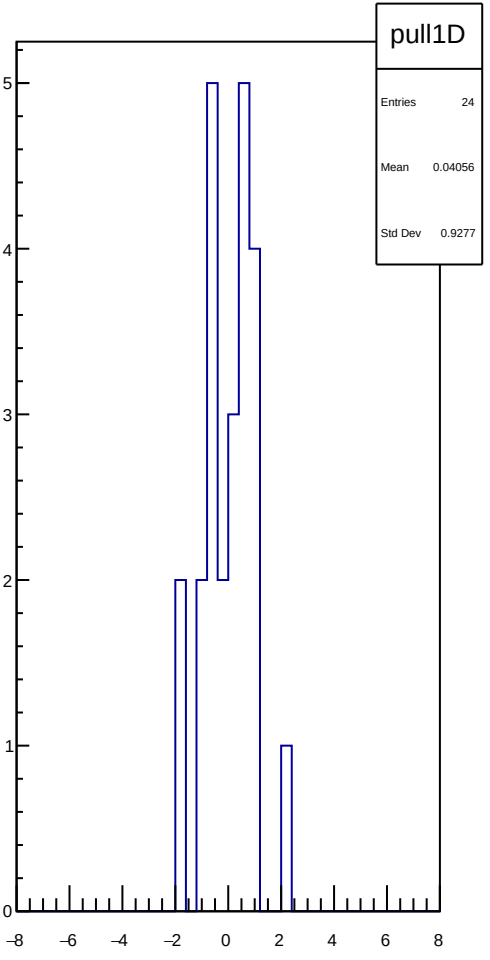

diff_targ_positionX_mean vs run
χ² / ndf 24.05 / 23
p0 −16.85 ± 34.63
600
400
200
0
−200
−400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 31.68
Std Dev 24.33
1.5
1
0.5
0
−0.5
−1
−1.5

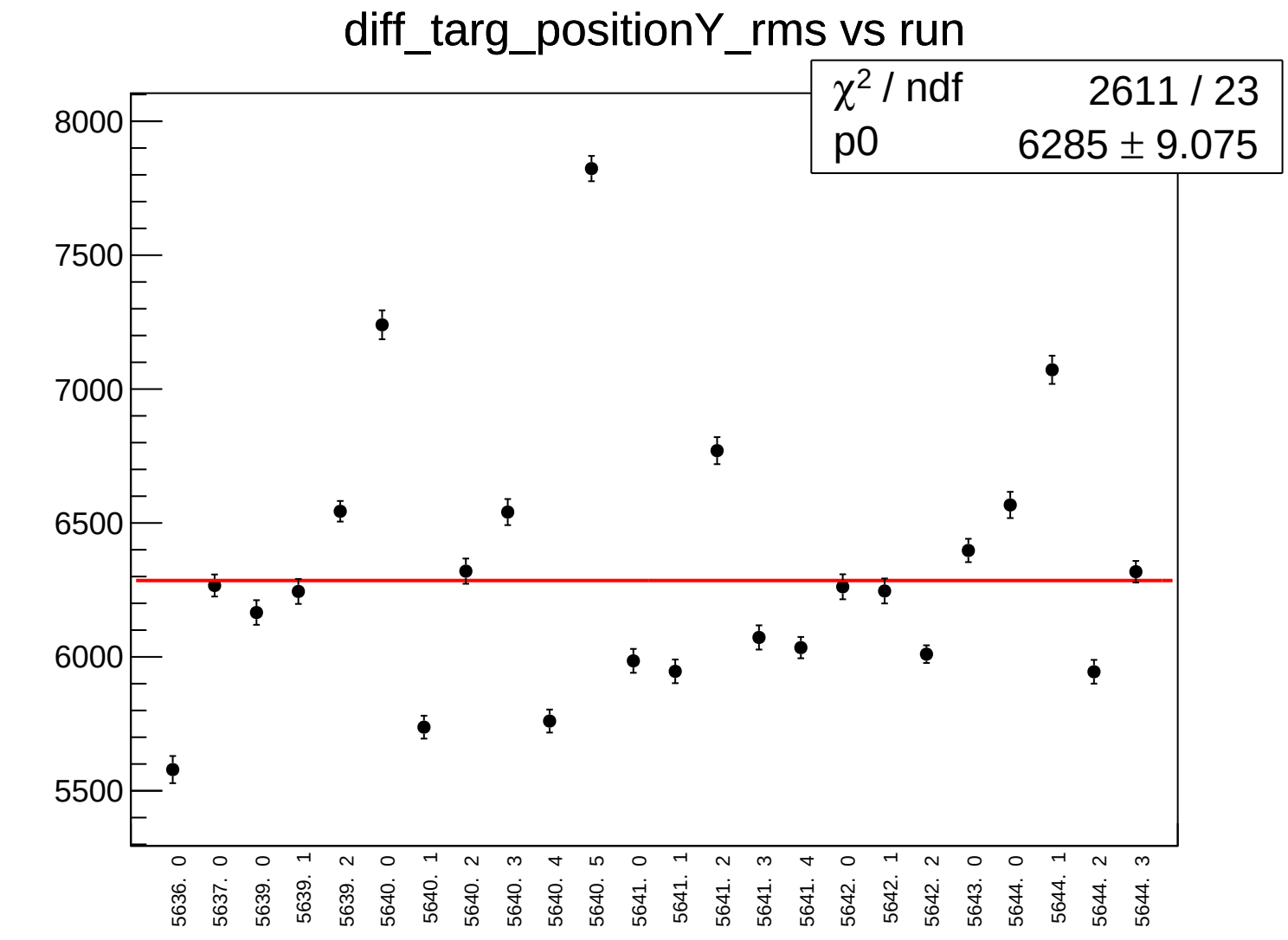

pull1D
Entries 24
Mean 0.0198
Std Dev 1.001
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

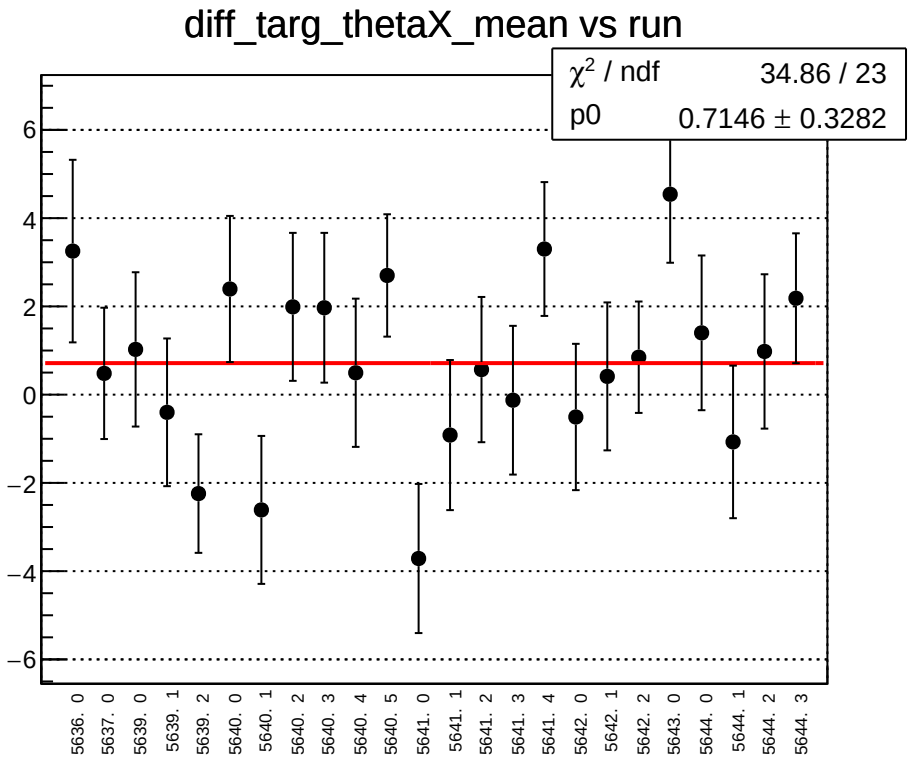

diff_targ_positionX_rms vs run
χ² / ndf 820.1 / 23
p0 1.699e+04 ± 24.49
18500
18000
17500
17000
16500
16000
15500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

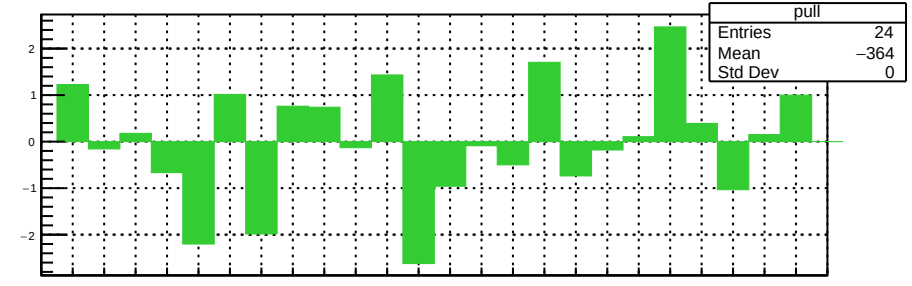

diff_targ_positionY_mean vs run
χ² / ndf 20.69 / 23
p0 6.426 ± 12.83
200
150
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

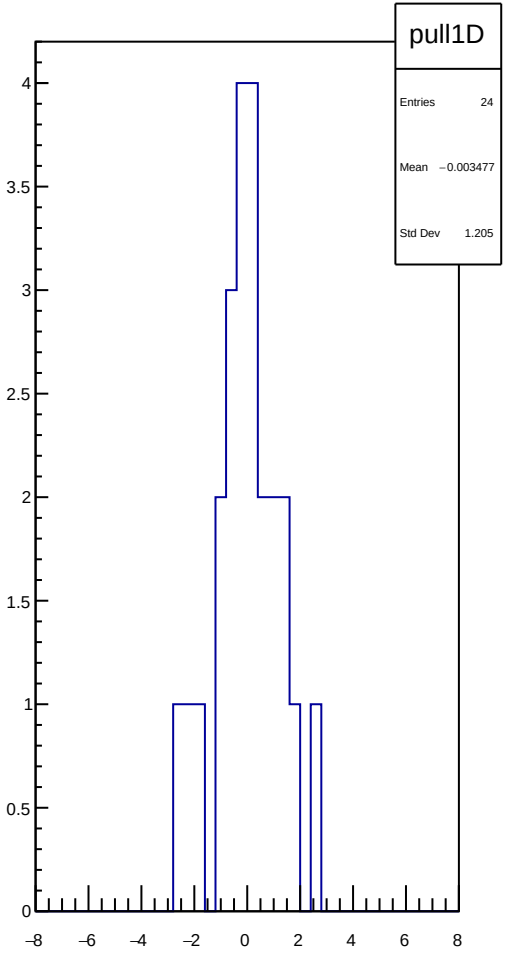

pull
Entries 24
Mean −21.96
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

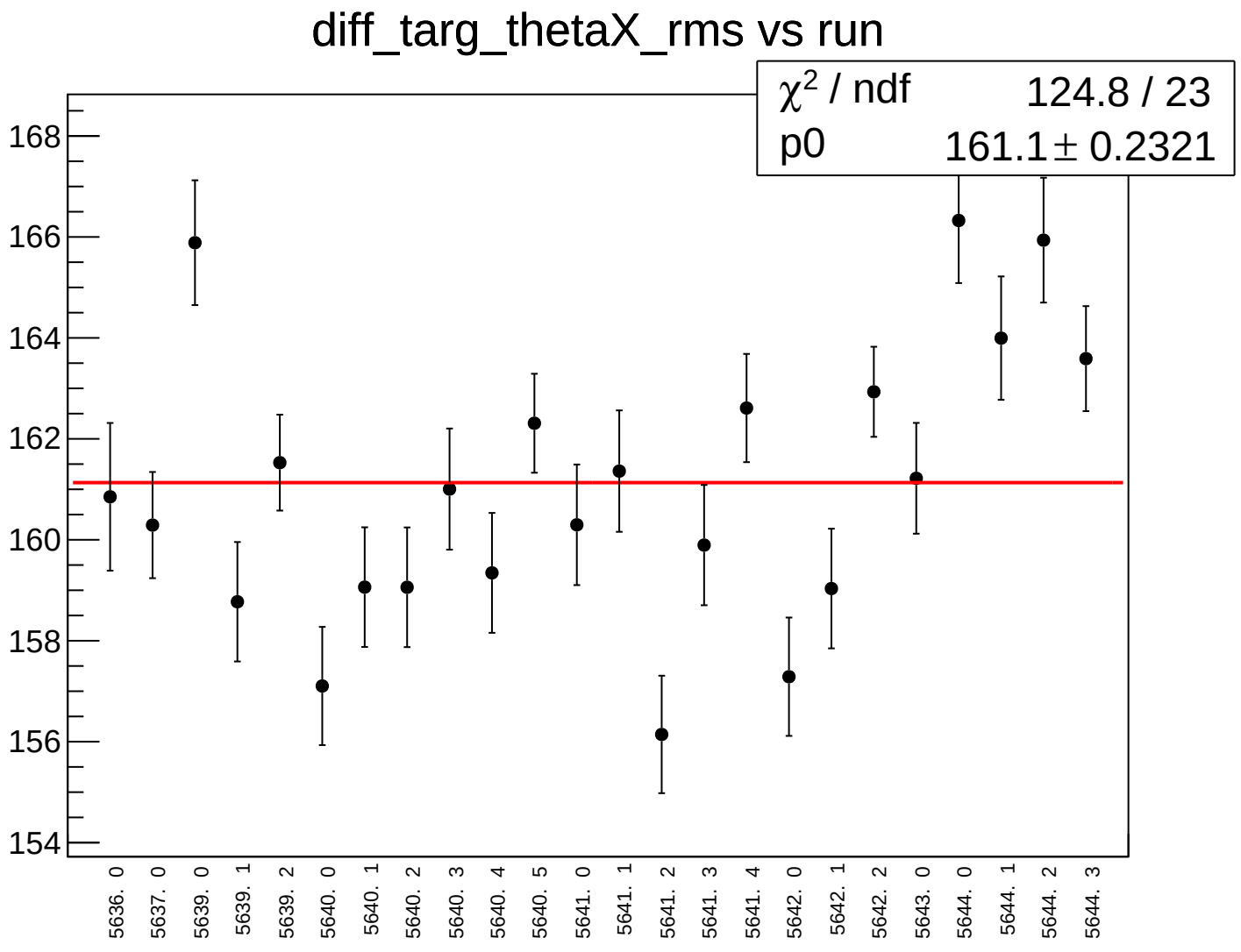

pull1D
Entries 24
Mean 0.04056
Std Dev 0.9277
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

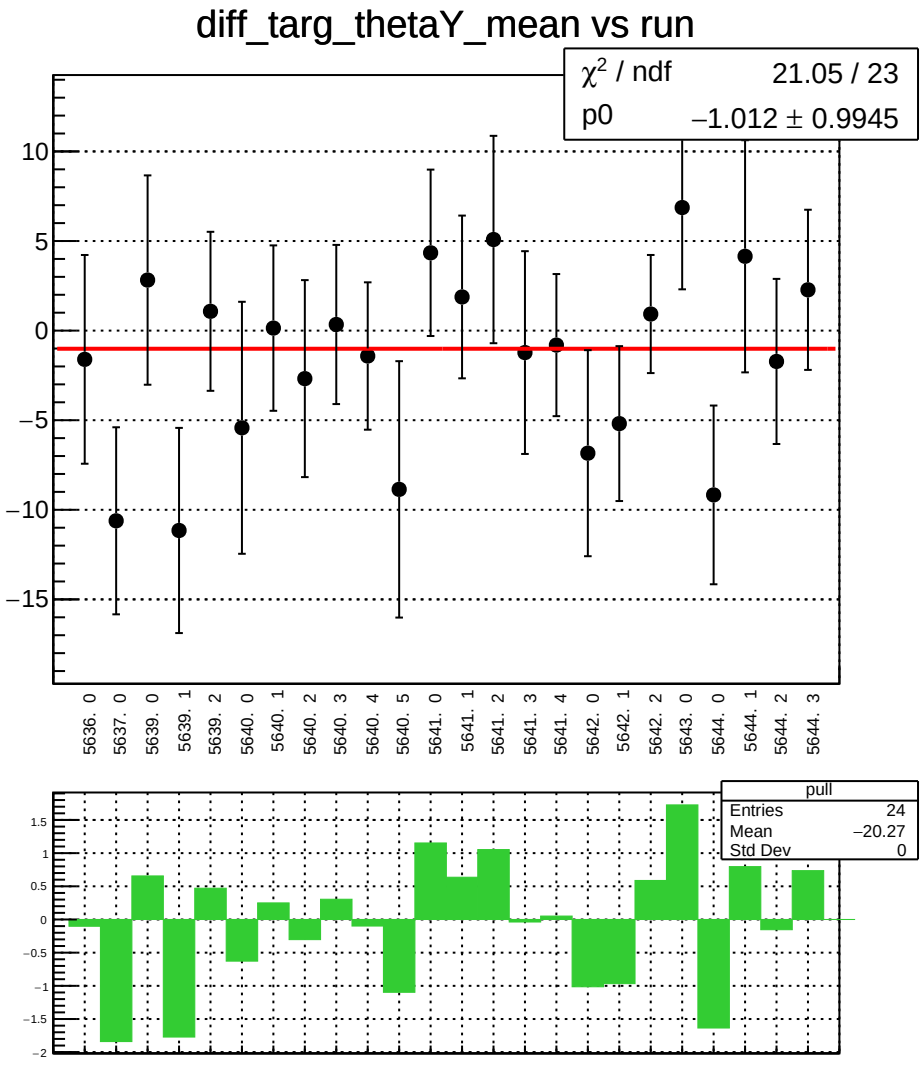

diff_targ_positionY_rms vs run
χ² / ndf 2611 / 23
p0 6285 ± 9.075
8000
7500
7000
6500
6000
5500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

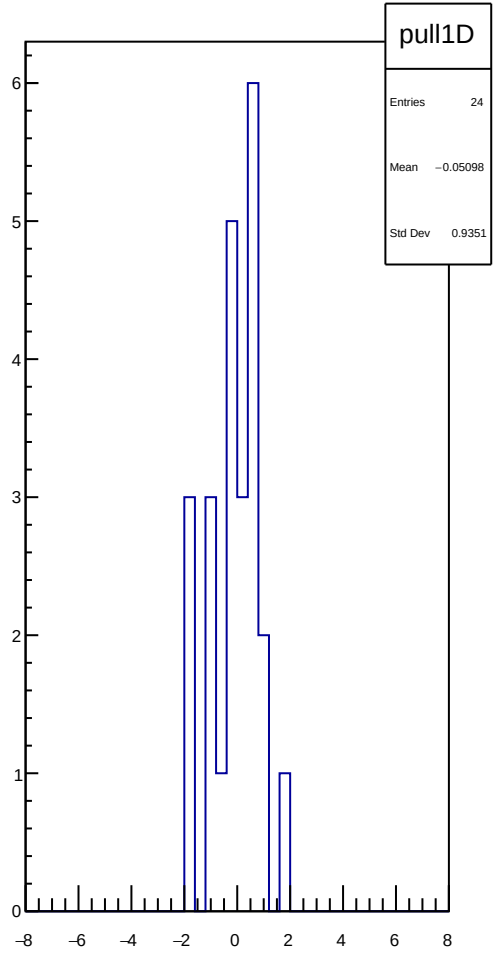

diff_targ_thetaX_mean vs run
χ² / ndf 34.86 / 23
p0 0.7146 ± 0.3282
6
4
2
0
−2
−4
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

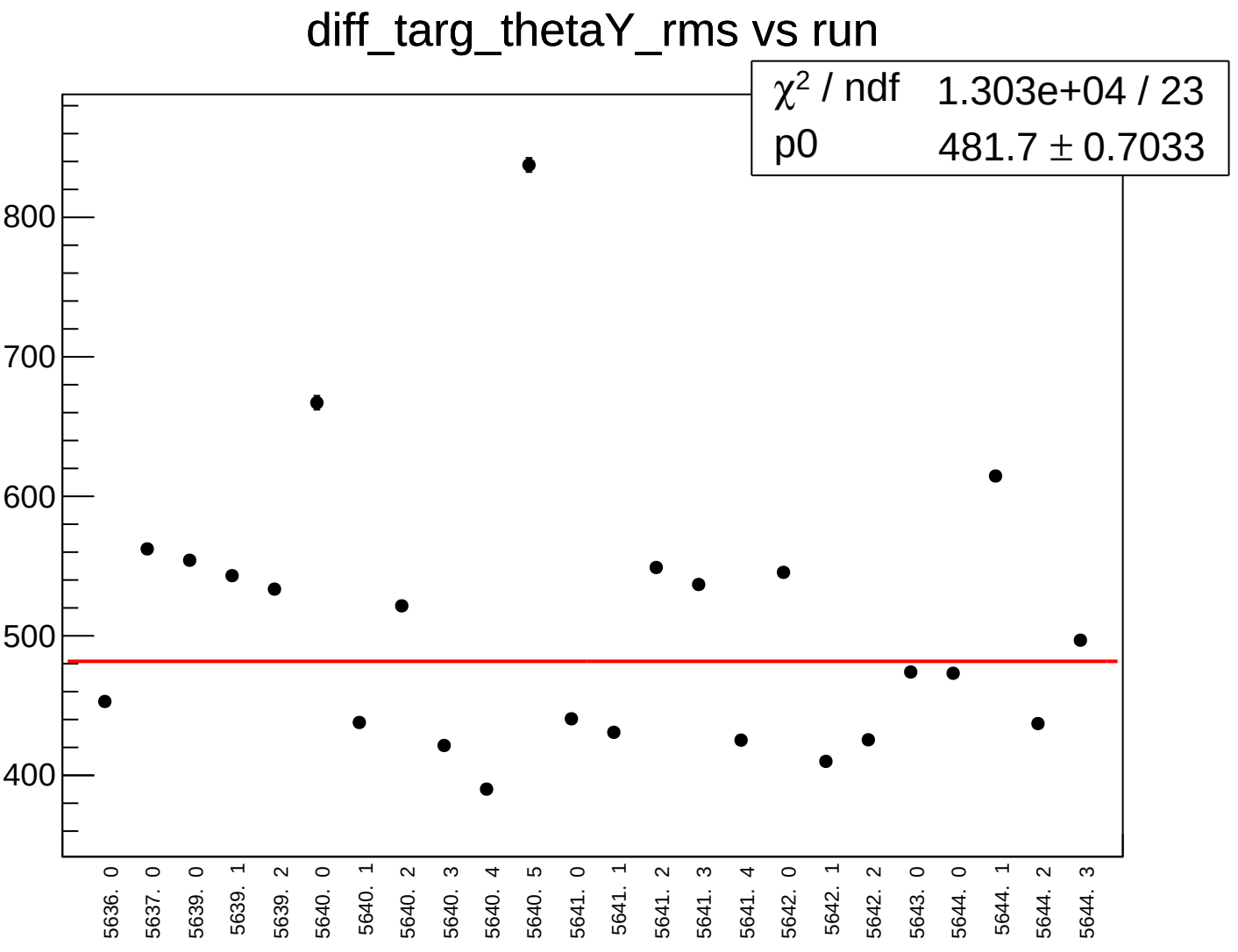

pull
Entries 24
Mean −364
Std Dev 0
2
1
0
−1
−2

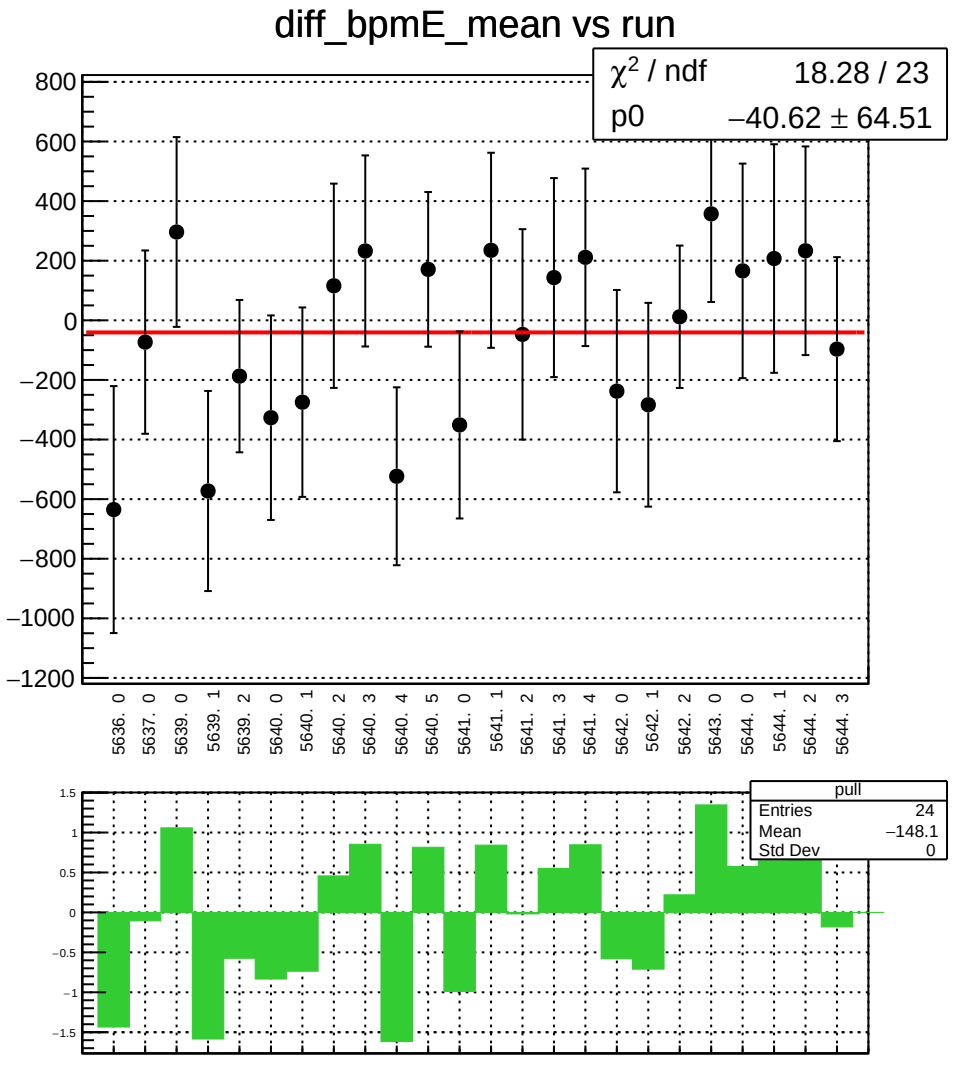

pull1D
Entries 24
Mean −0.003477
Std Dev 1.205
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

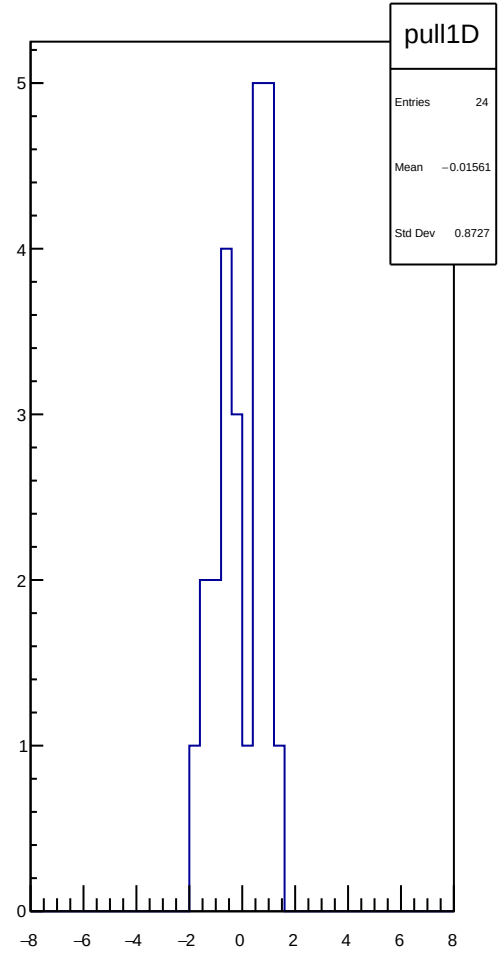

diff_targ_thetaX_rms vs run
χ² / ndf 124.8 / 23
p0 161.1 ± 0.2321
168
166
164
162
160
158
156
154
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

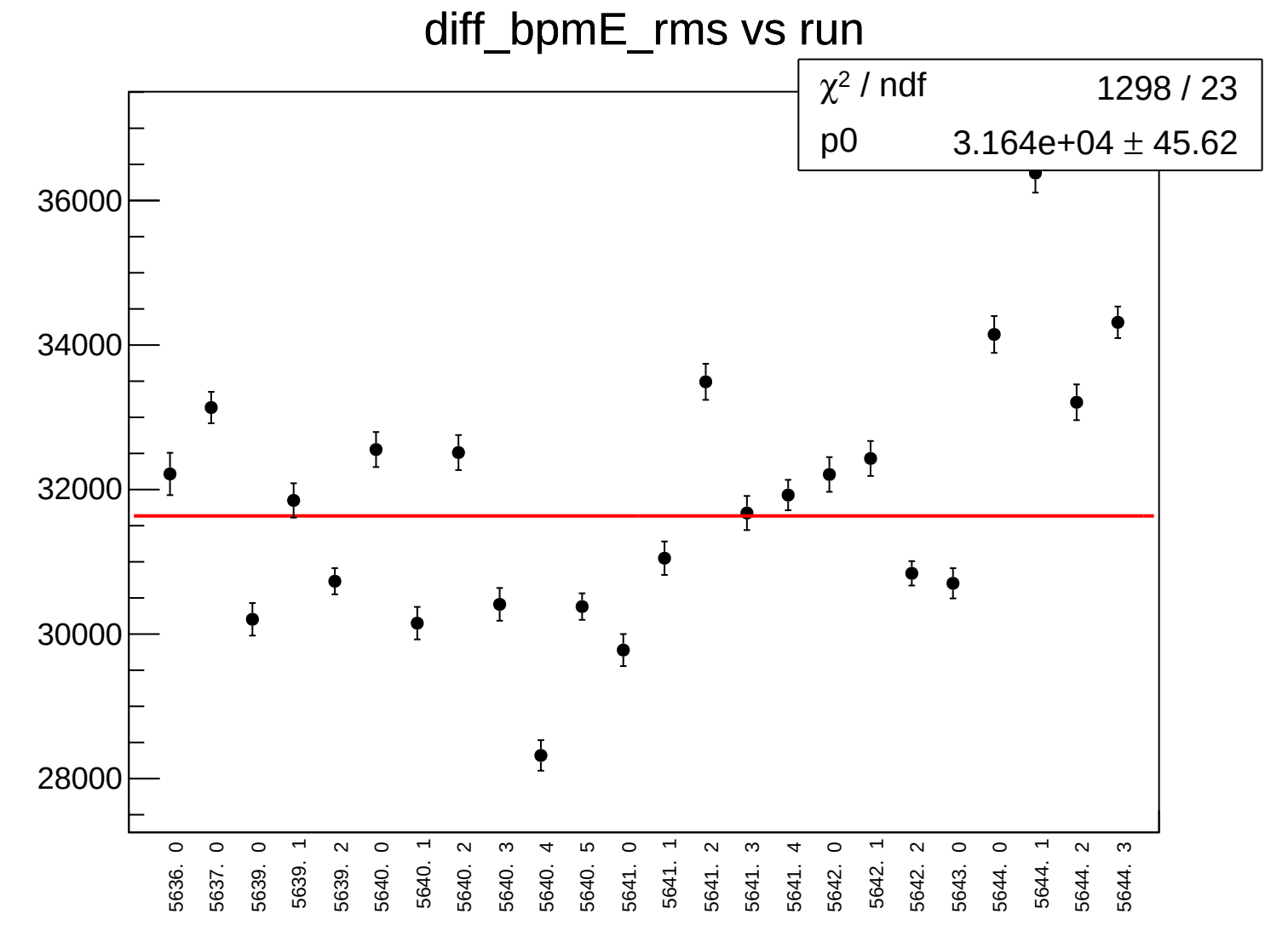

diff_targ_thetaY_mean vs run
χ² / ndf 21.05 / 23
p0 −1.012 ± 0.9945
10
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −20.27
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

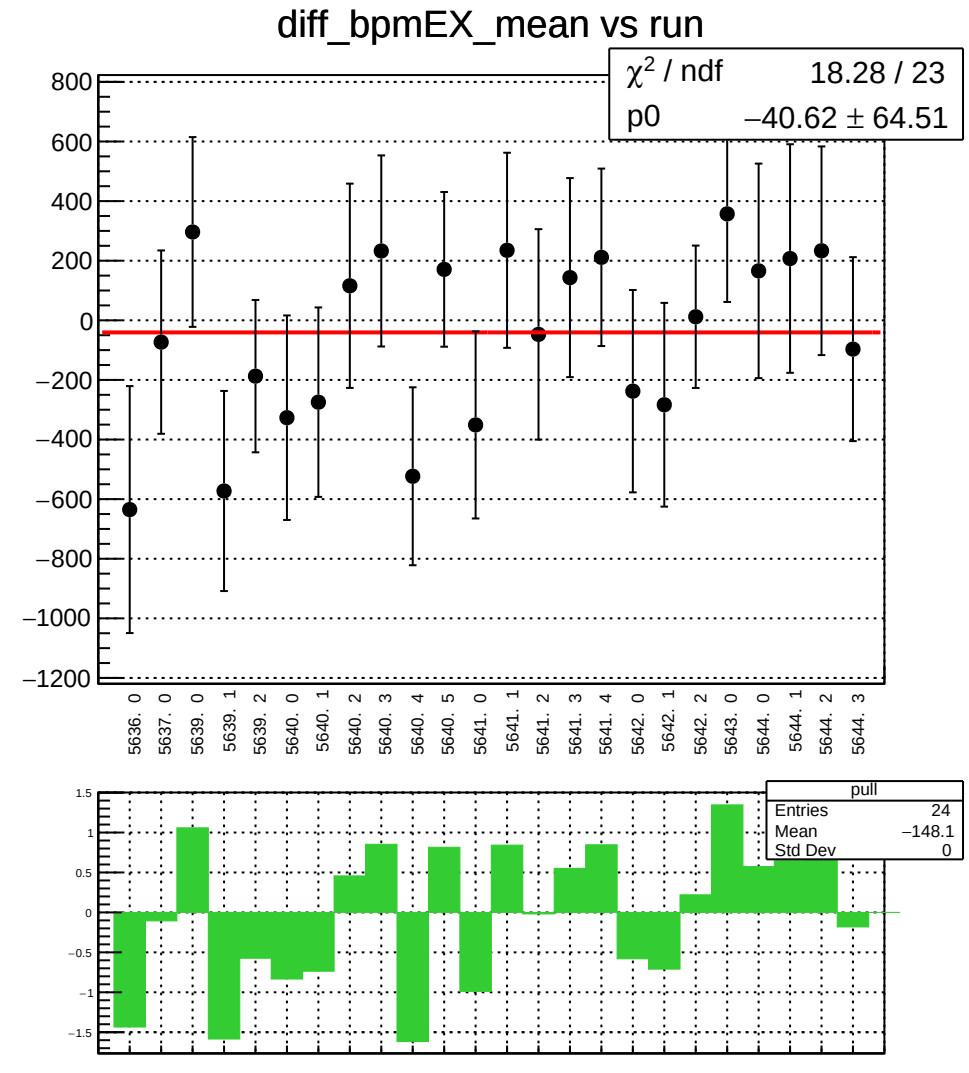

pull1D
Entries 24
Mean −0.05098
Std Dev 0.9351
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

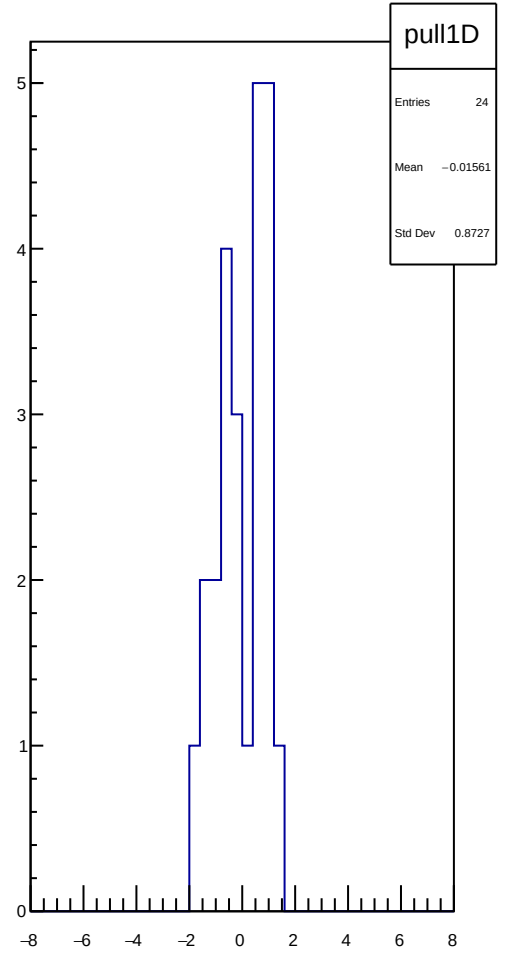

diff_targ_thetaY_rms vs run
χ² / ndf 1.303e+04 / 23
p0 481.7 ± 0.7033
800
700
600
500
400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

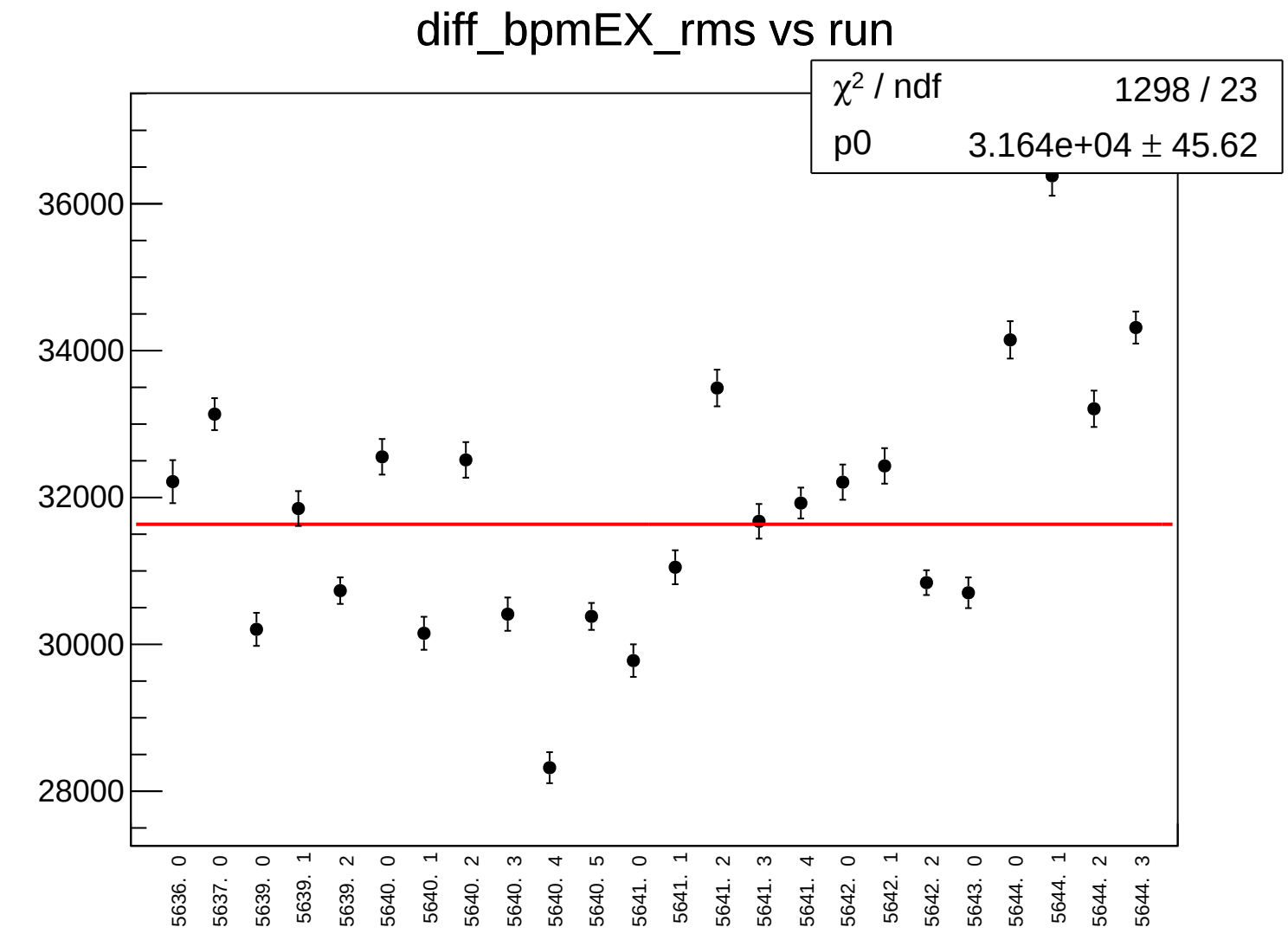

diff_bpmE_mean vs run
χ² / ndf 18.28 / 23
p0 −40.62 ± 64.51
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −148.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

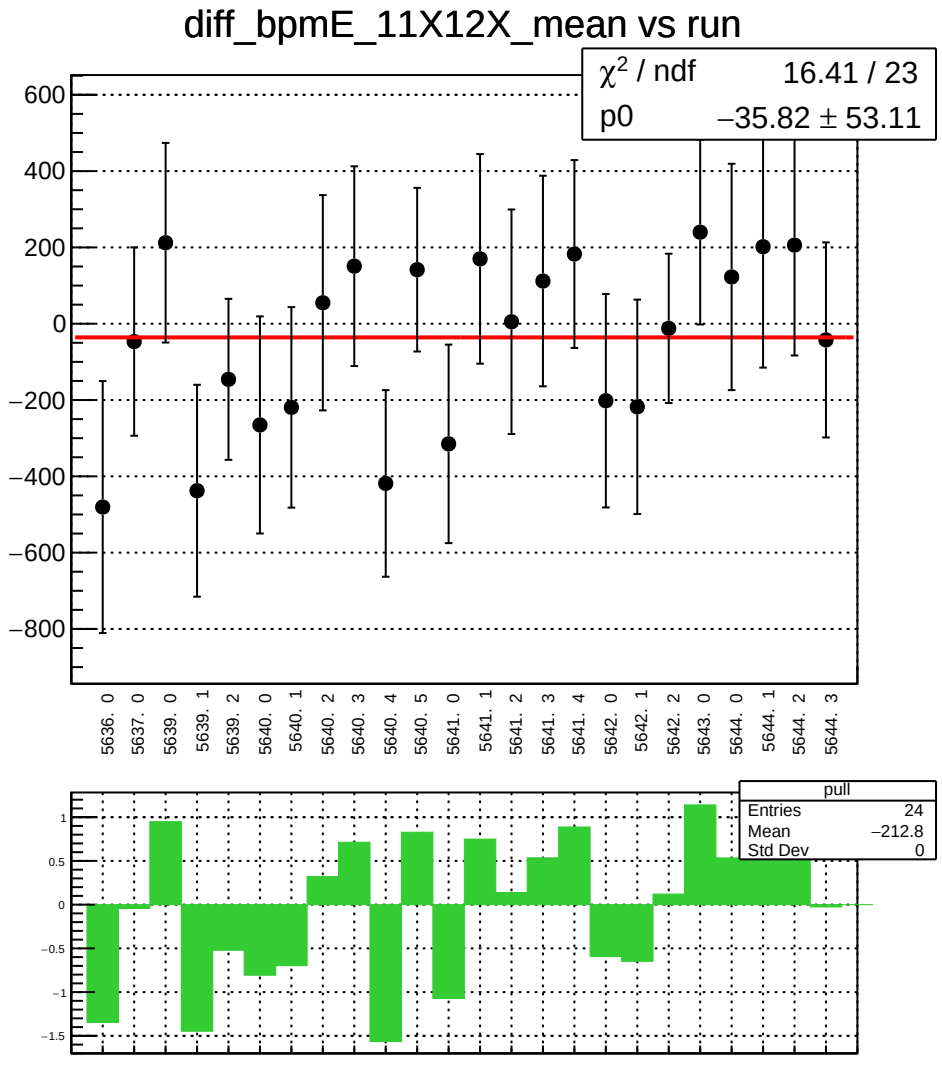

pull1D
Entries 24
Mean −0.01561
Std Dev 0.8727
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

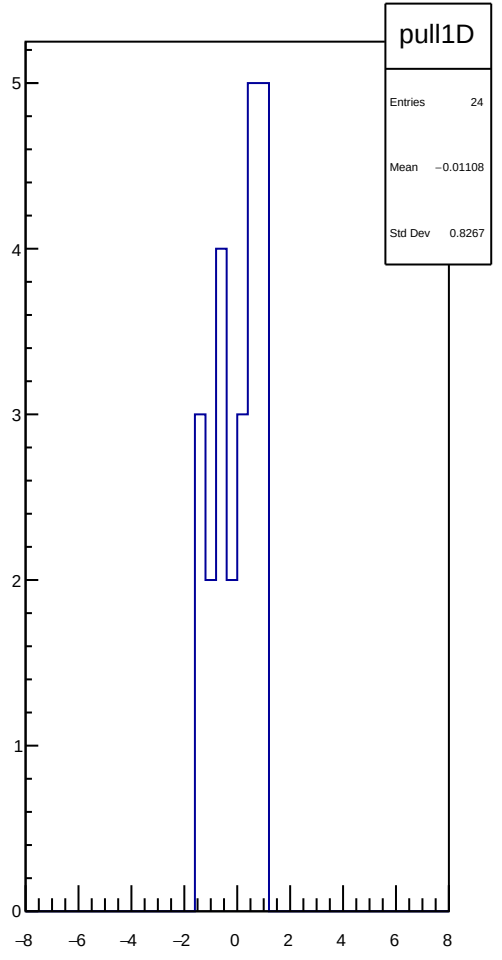

diff_bpmE_rms vs run
χ² / ndf 1298 / 23
p0 3.164e+04 ± 45.62
36000
34000
32000
30000
28000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

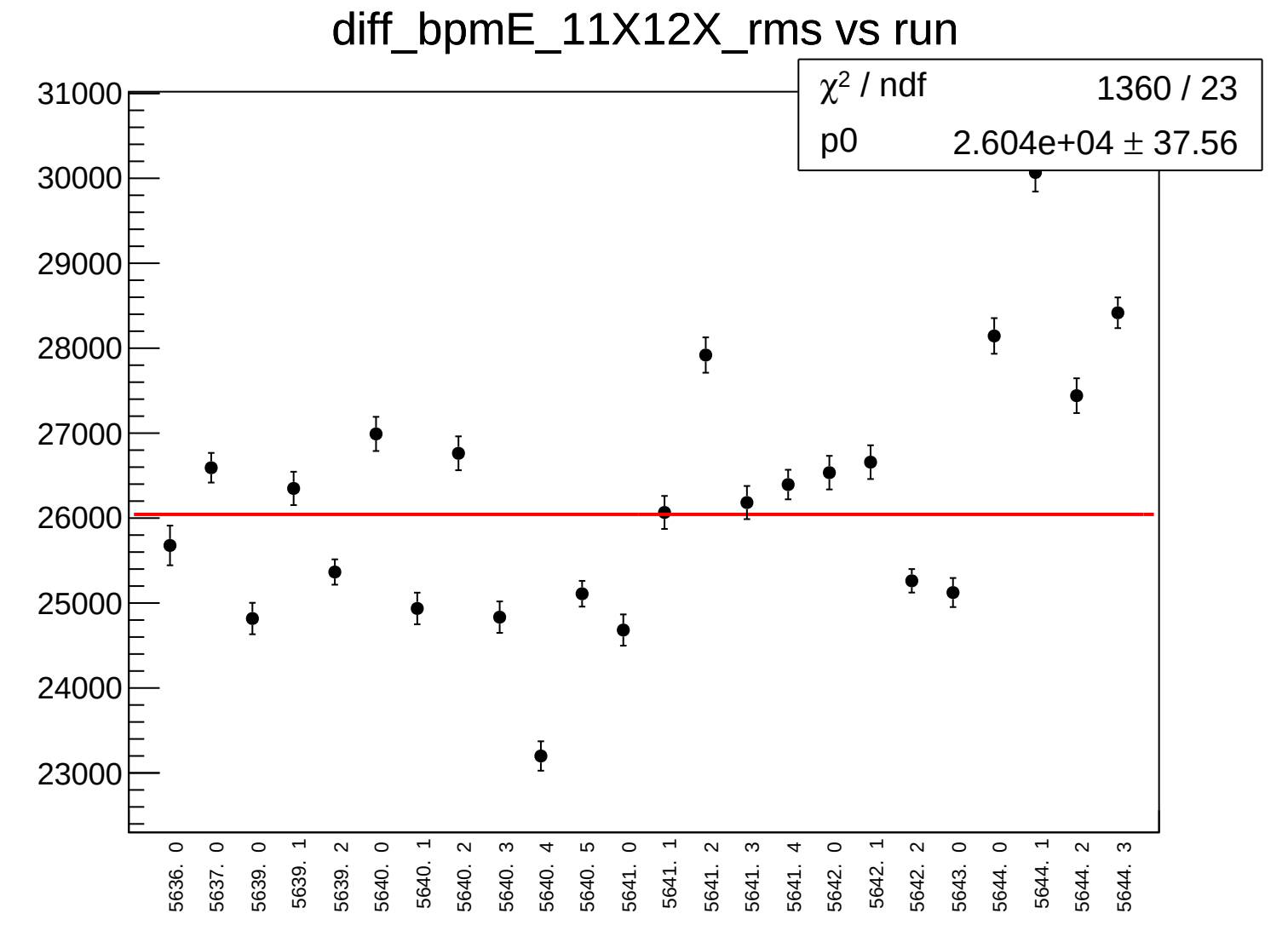

diff_bpmEX_mean vs run
χ² / ndf 18.28 / 23
p0 −40.62 ± 64.51
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −148.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

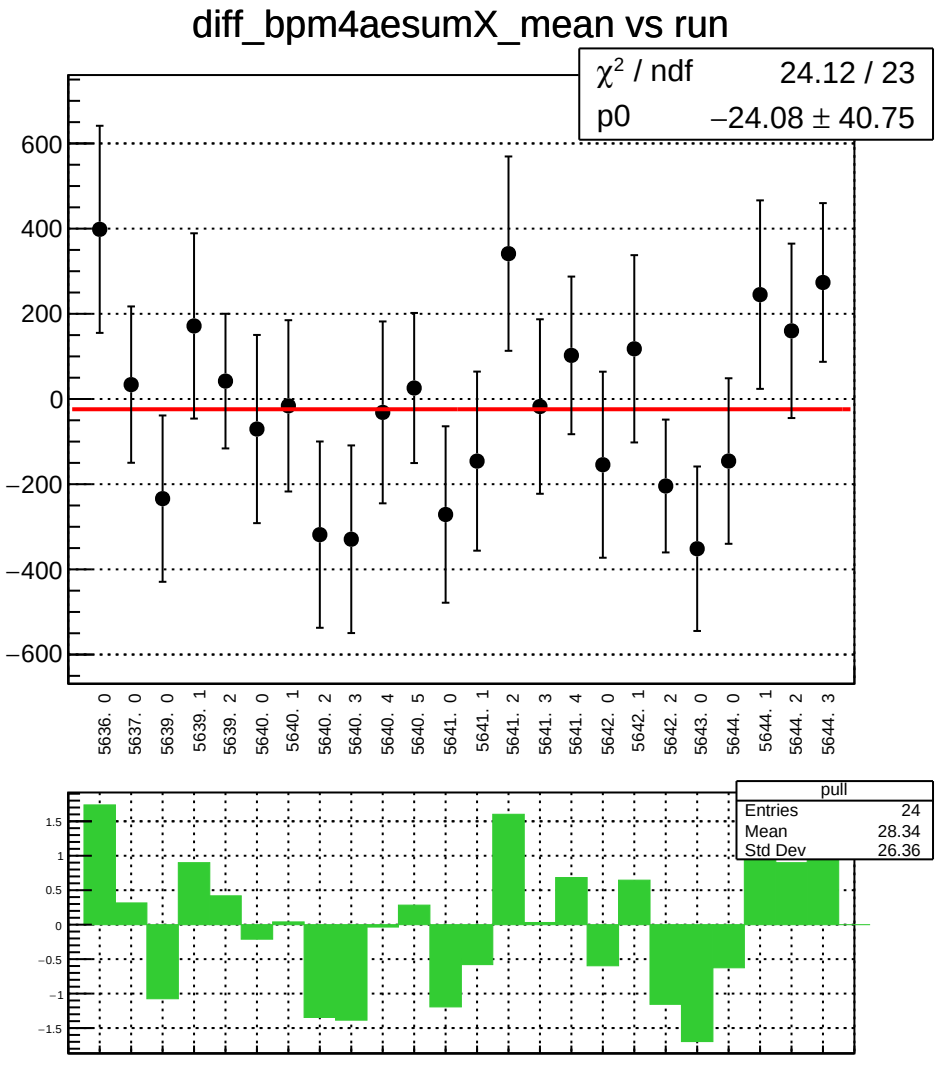

pull1D
Entries 24
Mean −0.01561
Std Dev 0.8727
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

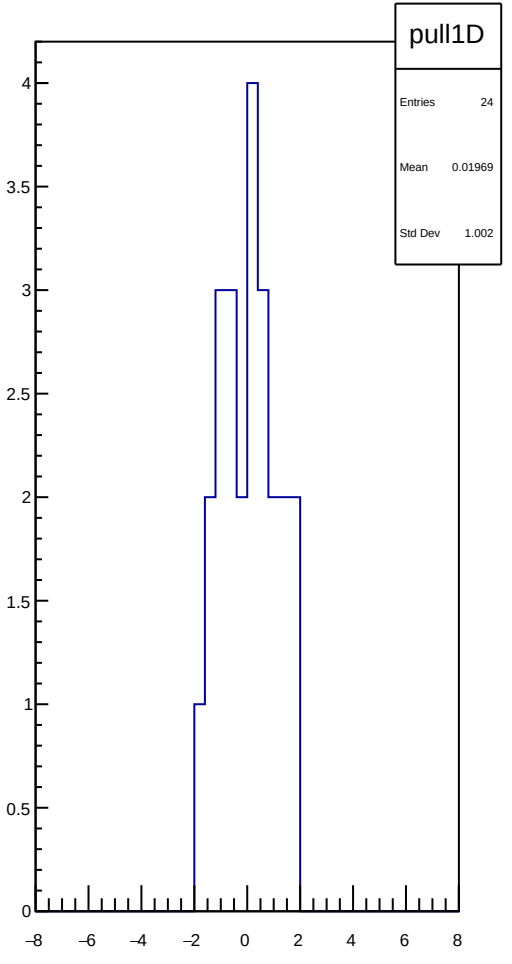

diff_bpmEX_rms vs run
χ² / ndf 1298 / 23
p0 3.164e+04 ± 45.62
36000
34000
32000
30000
28000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

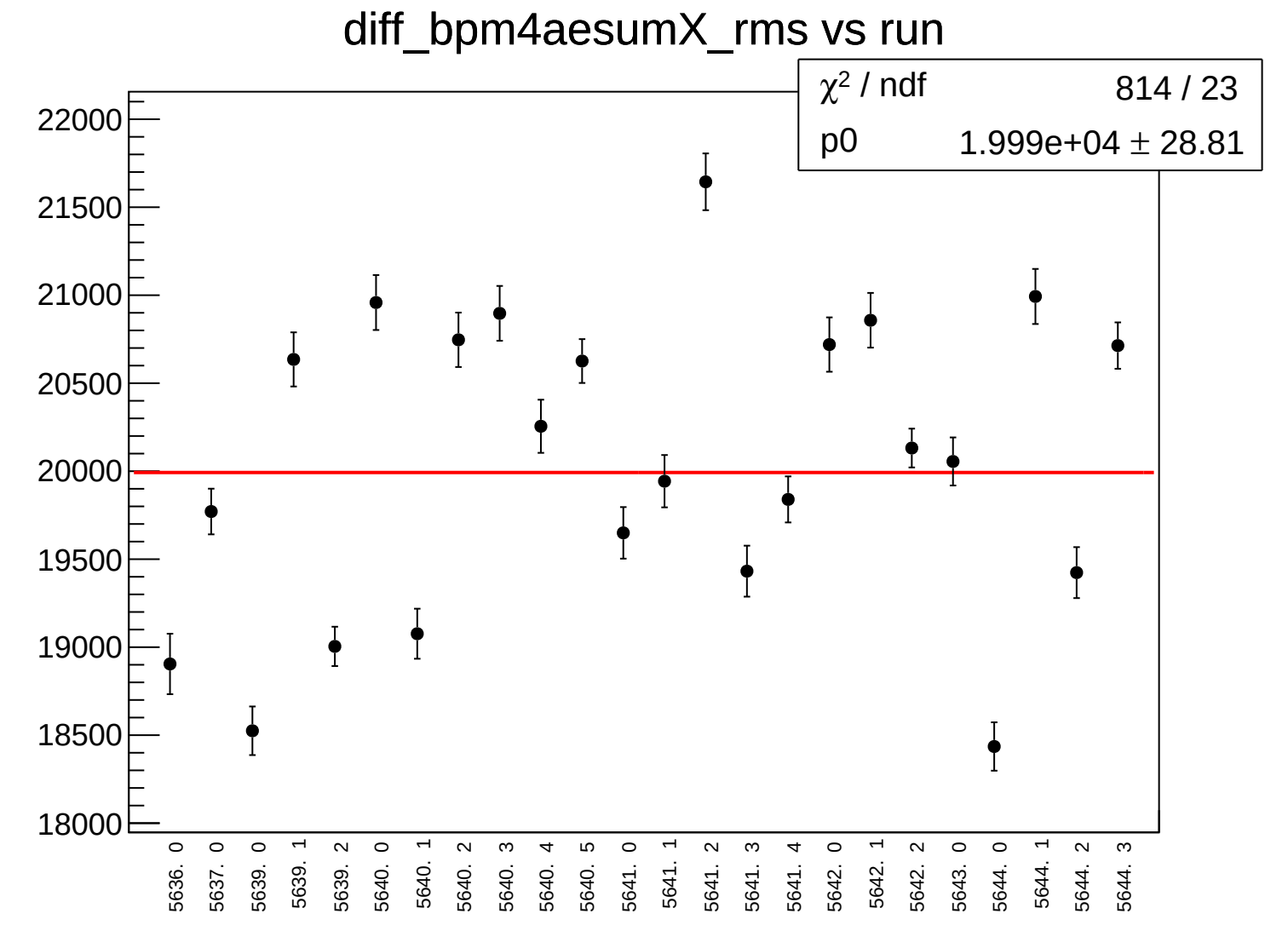

diff_bpmE_11X12X_mean vs run
χ² / ndf 16.41 / 23
p0 −35.82 ± 53.11
600
400
200
0
−200
−400
−600
−800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −212.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

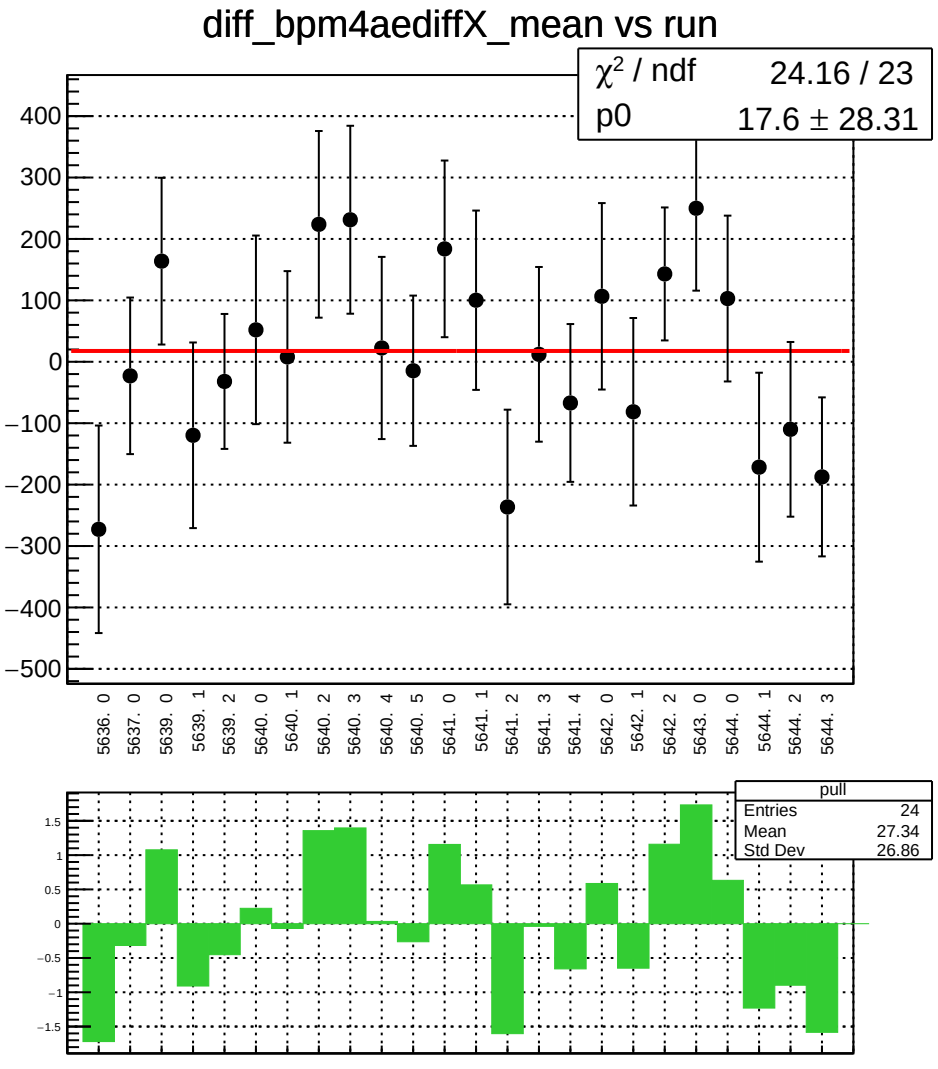

pull1D
Entries 24
Mean −0.01108
Std Dev 0.8267
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

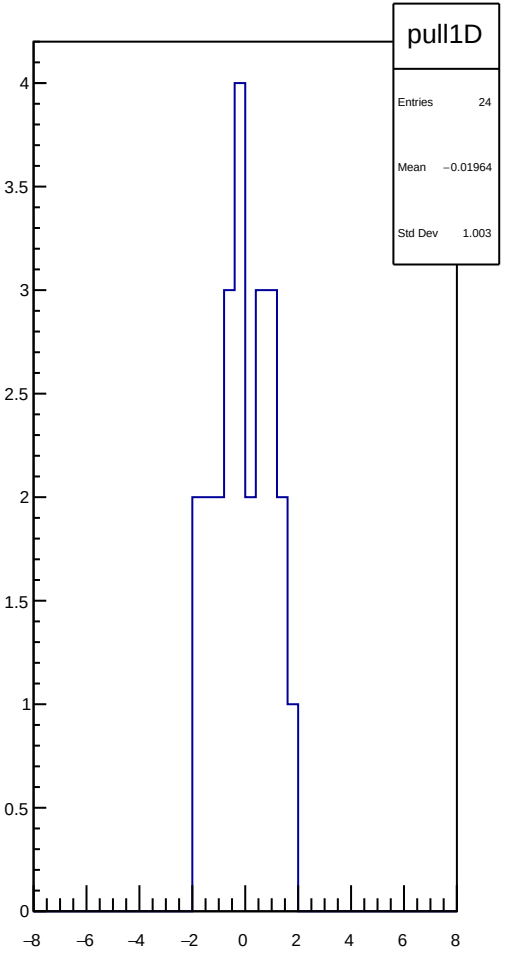

diff_bpmE_11X12X_rms vs run
χ² / ndf 1360 / 23
p0 2.604e+04 ± 37.56
31000
30000
29000
28000
27000
26000
25000
24000
23000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

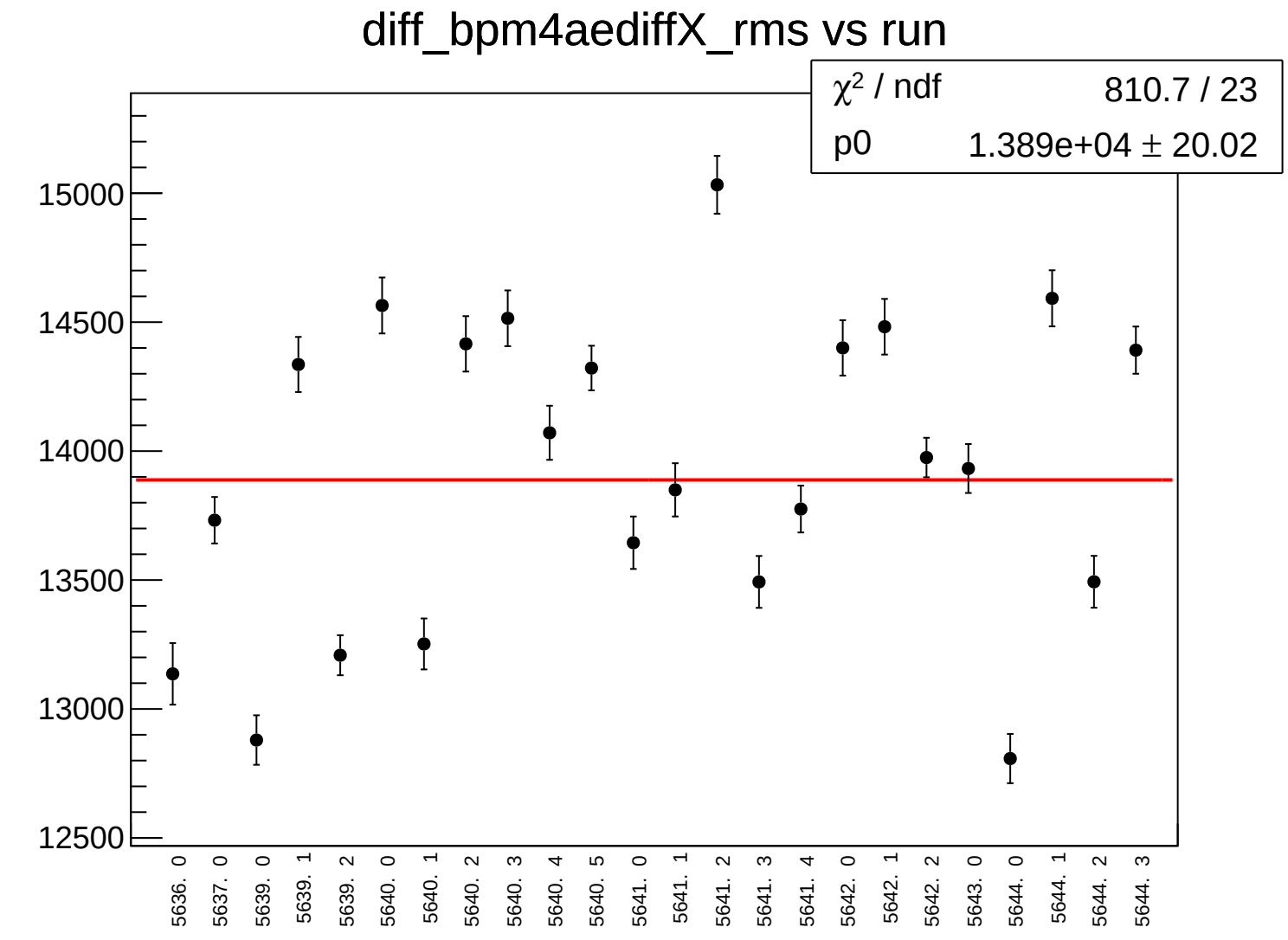

diff_bpm4aesumX_mean vs run
χ² / ndf 24.12 / 23
p0 −24.08 ± 40.75
600
400
200
0
−200
−400
−600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 28.34
Std Dev 26.36
1.5
1
0.5
0
−0.5
−1
−1.5

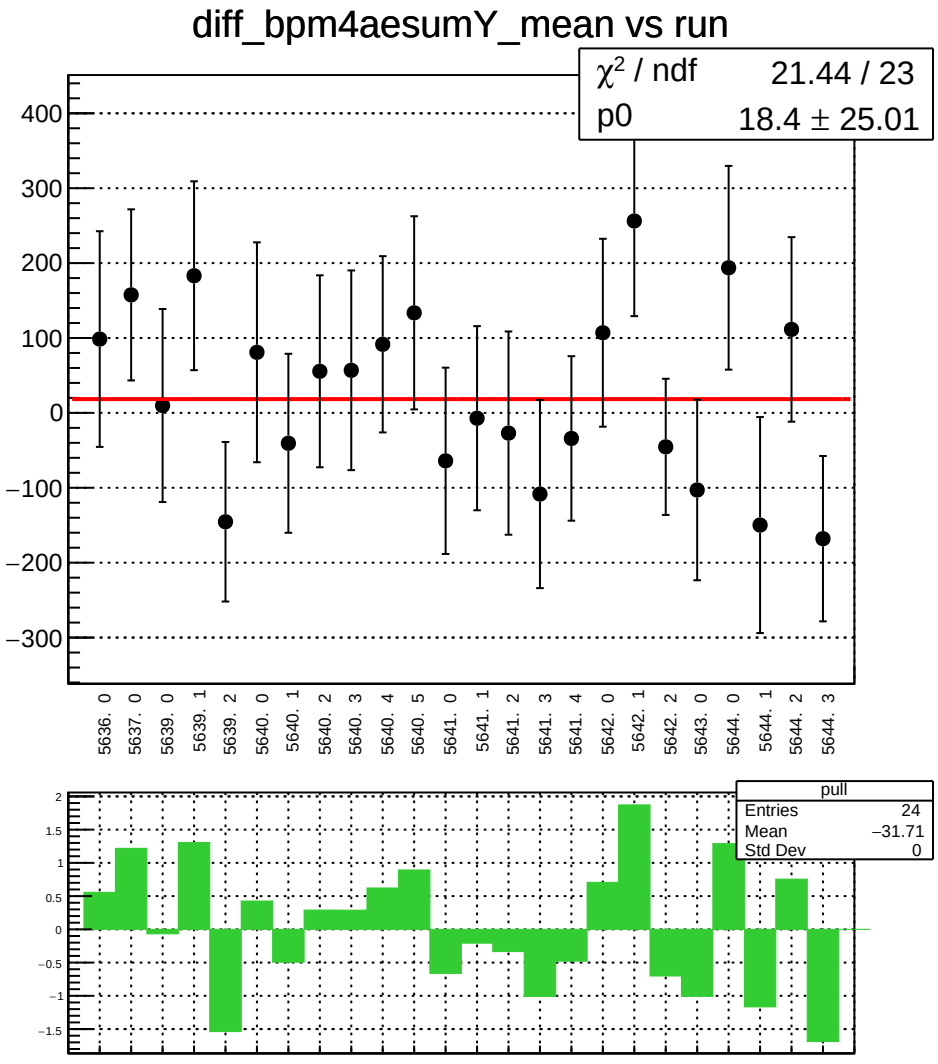

pull1D
Entries 24
Mean 0.01969
Std Dev 1.002
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

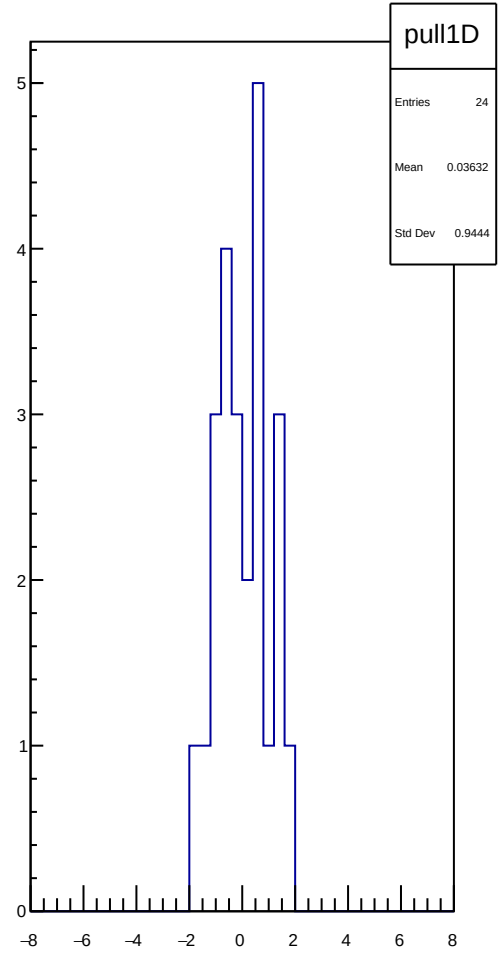

diff_bpm4aesumX_rms vs run
χ² / ndf 814 / 23
p0 1.999e+04 ± 28.81
22000
21500
21000
20500
20000
19500
19000
18500
18000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

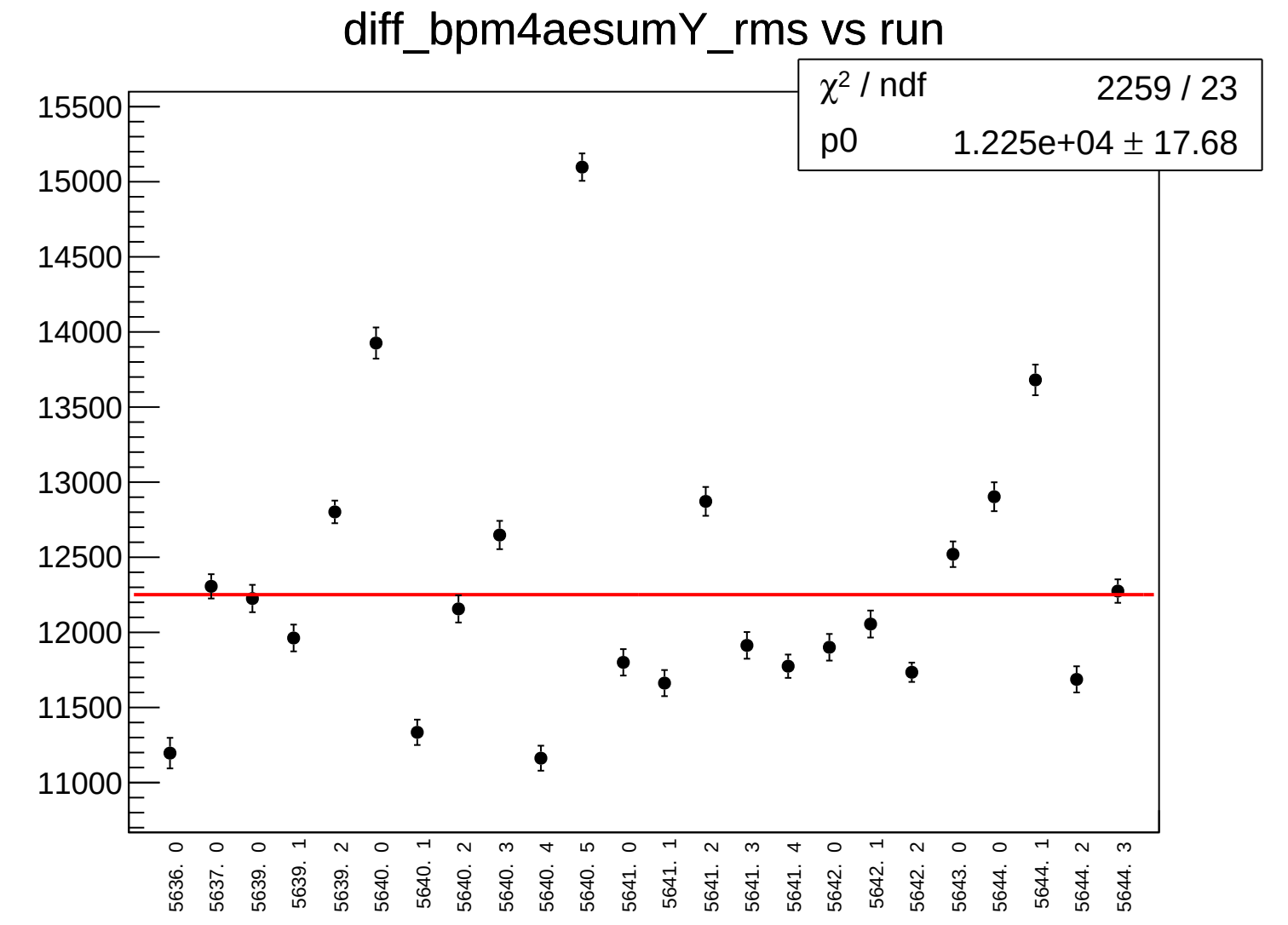

diff_bpm4aediffX_mean vs run
χ² / ndf 24.16 / 23
p0 17.6 ± 28.31
400
300
200
100
0
−100
−200
−300
−400
−500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 27.34
Std Dev 26.86
1.5
1
0.5
0
−0.5
−1
−1.5

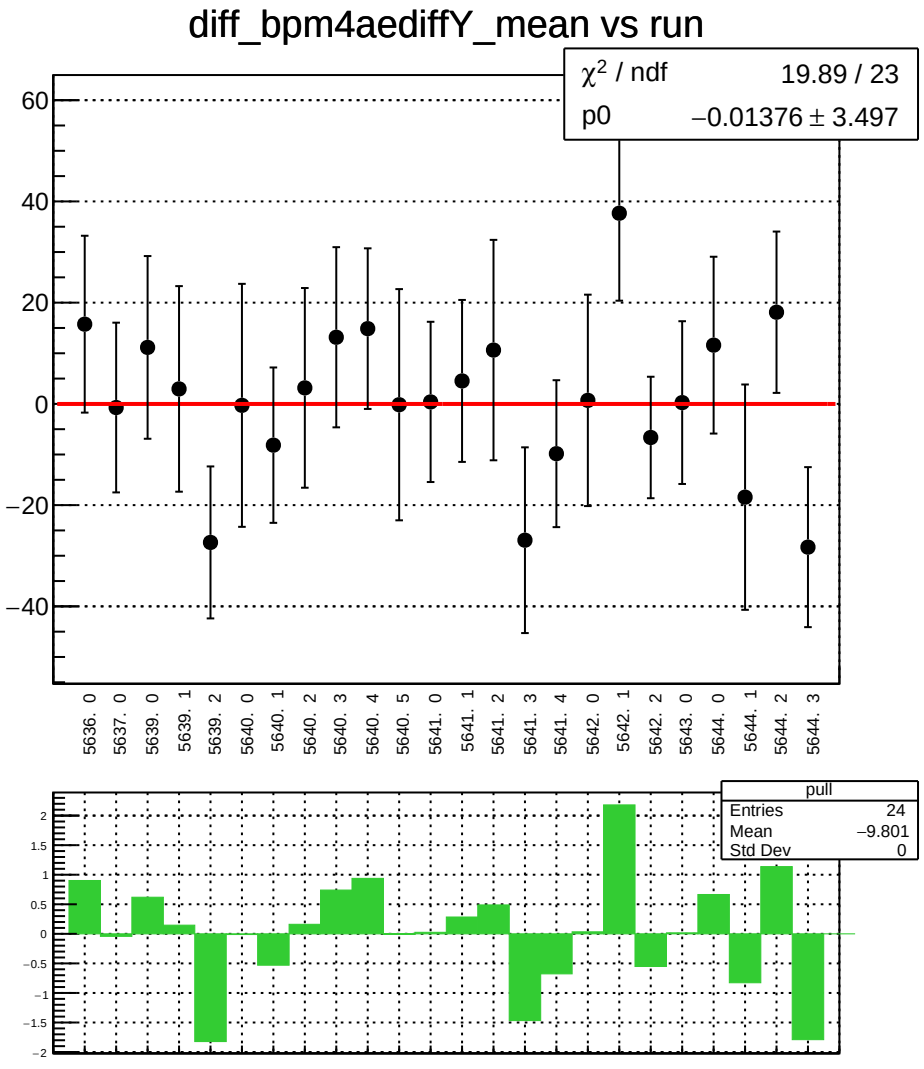

pull1D
Entries 24
Mean −0.01964
Std Dev 1.003
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

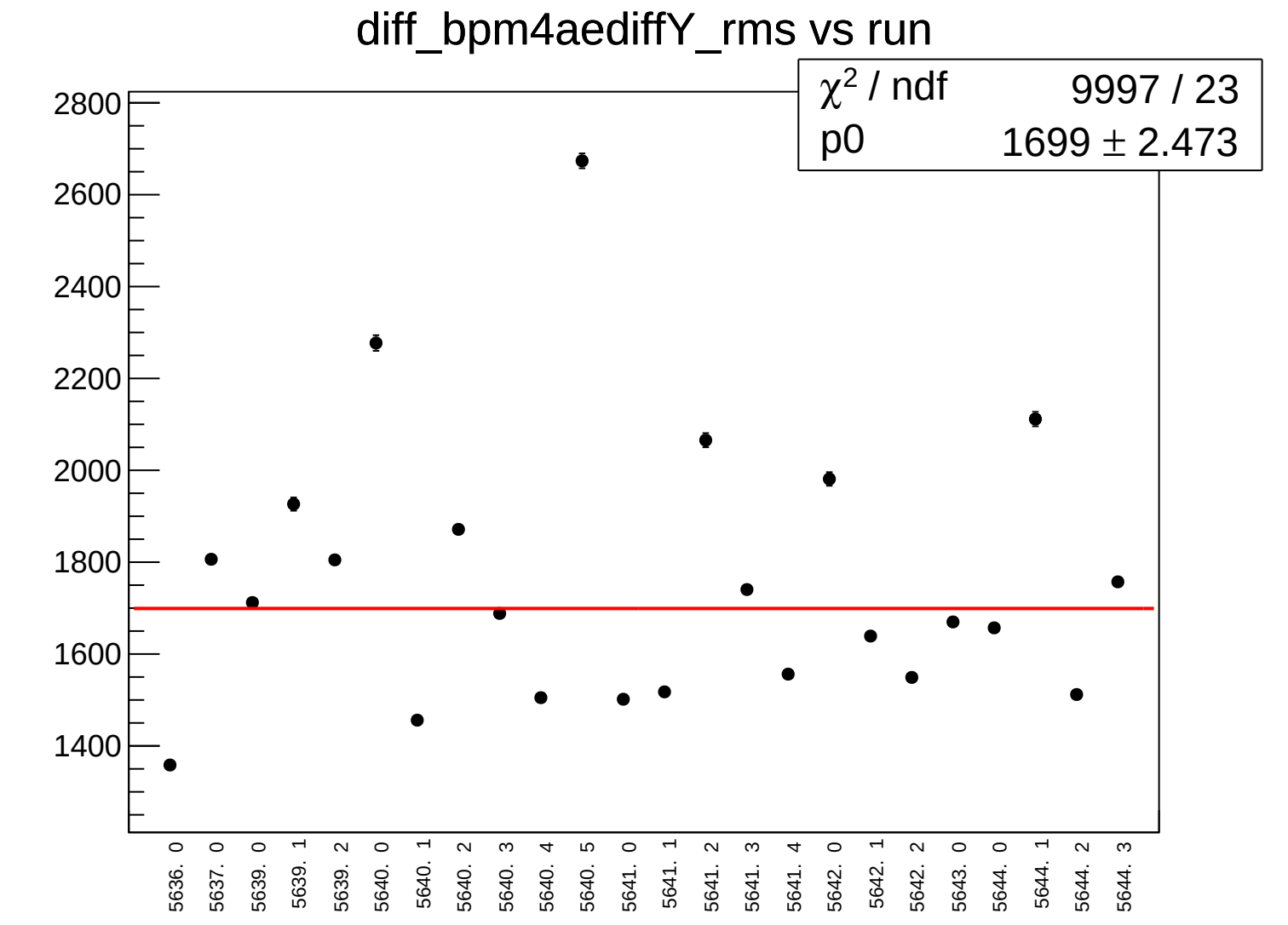

diff_bpm4aediffX_rms vs run
χ² / ndf 810.7 / 23
p0 1.389e+04 ± 20.02
15000
14500
14000
13500
13000
12500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

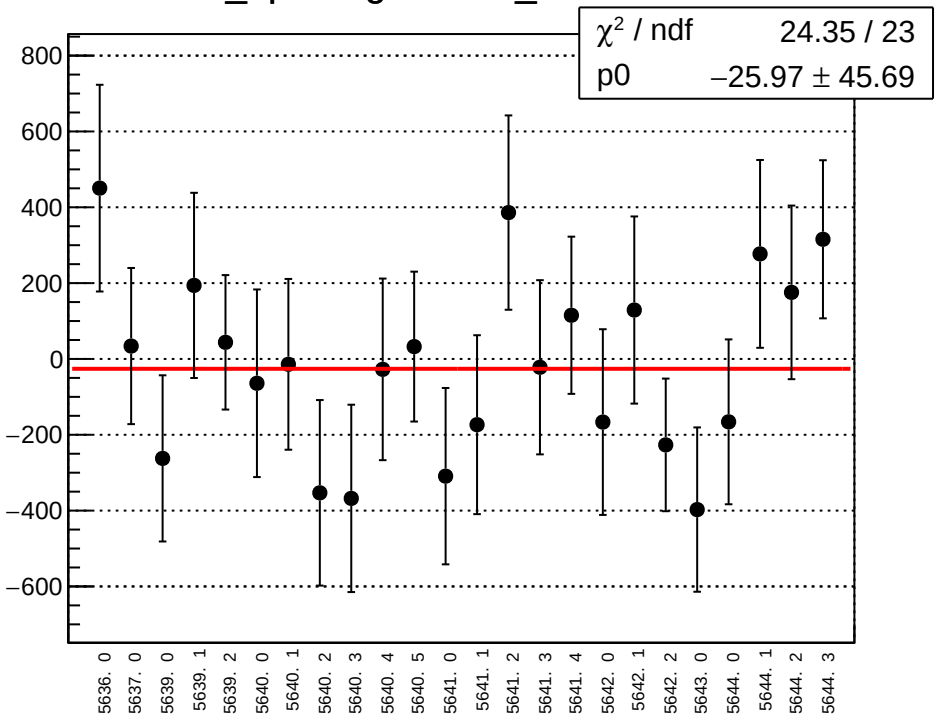

diff_bpm4aesumY_mean vs run
χ² / ndf 21.44 / 23
p0 18.4 ± 25.01
400
300
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −31.71
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

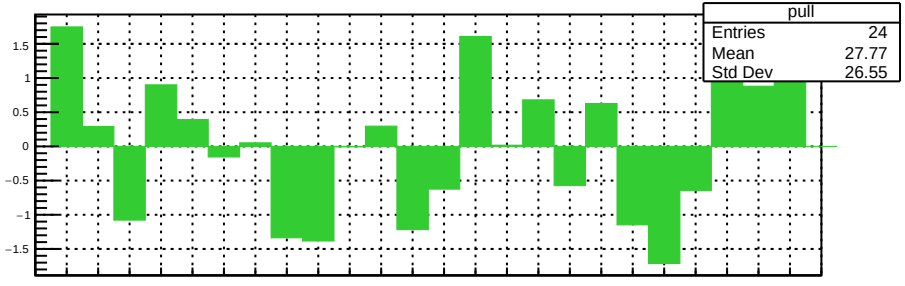

pull1D
Entries 24
Mean 0.03632
Std Dev 0.9444
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

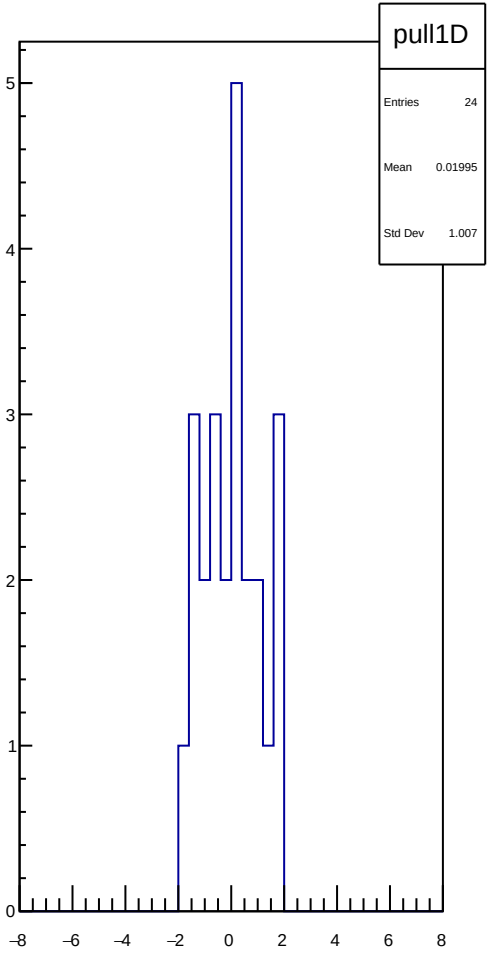

diff_bpm4aesumY_rms vs run
χ² / ndf 2259 / 23
p0 1.225e+04 ± 17.68
15500
15000
14500
14000
13500
13000
12500
12000
11500
11000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

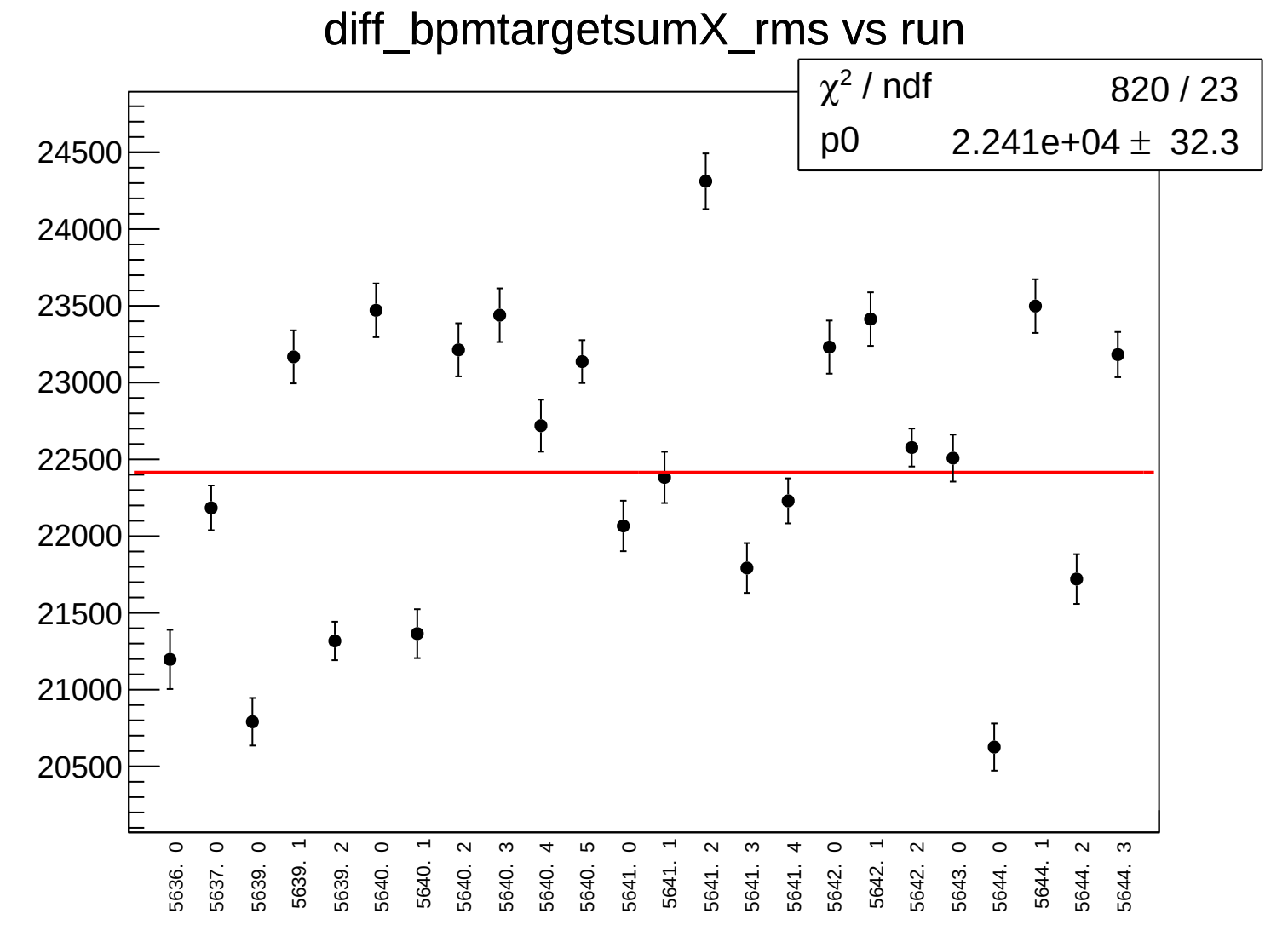

diff_bpm4aediffY_mean vs run
χ² / ndf 19.89 / 23
p0 −0.01376 ± 3.497
60
40
20
0
−20
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −9.801
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.02559
Std Dev 0.91
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

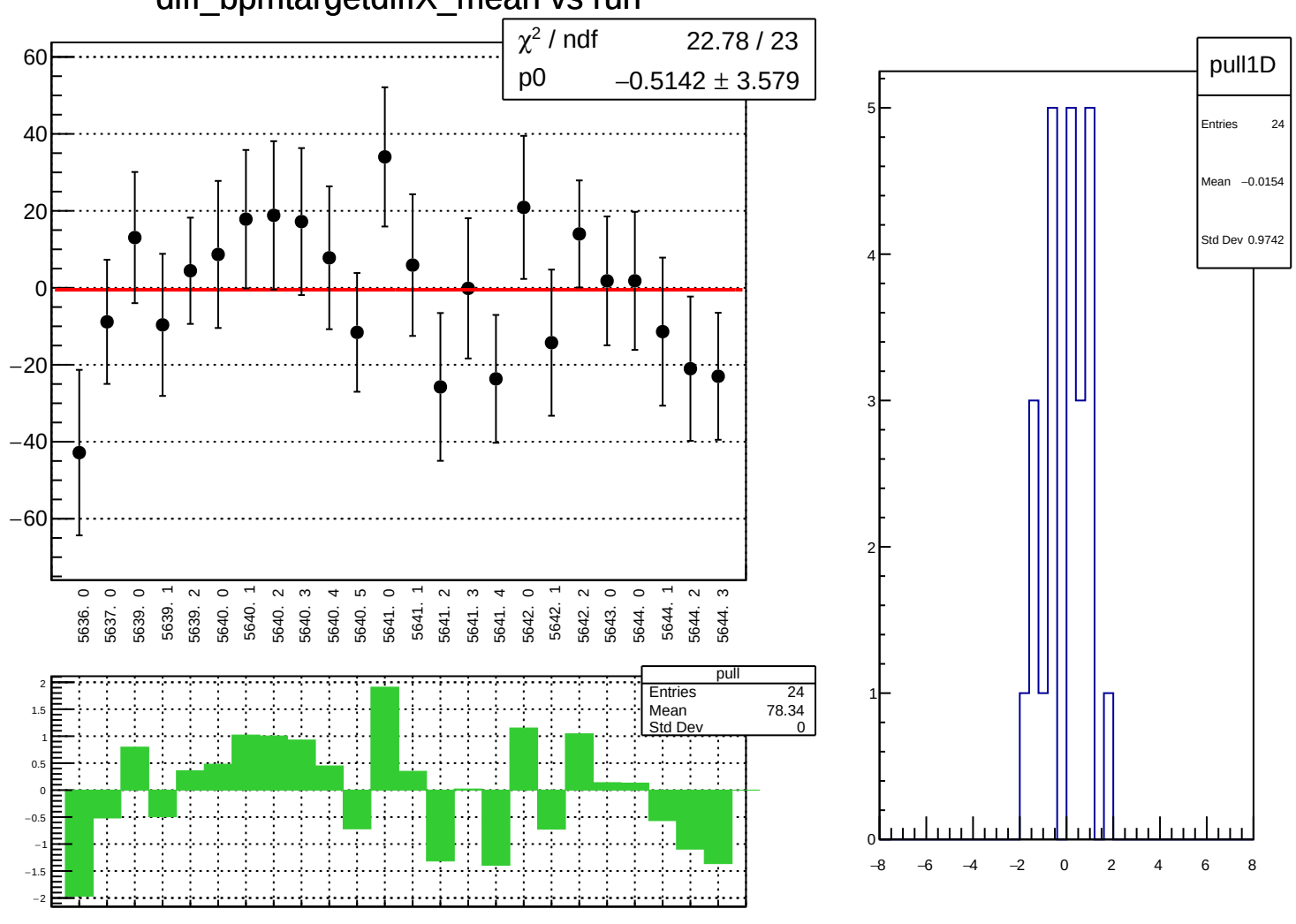

diff_bpm4aediffY_rms vs run
χ² / ndf 9997 / 23
p0 1699 ± 2.473
2800
2600
2400
2200
2000
1800
1600
1400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

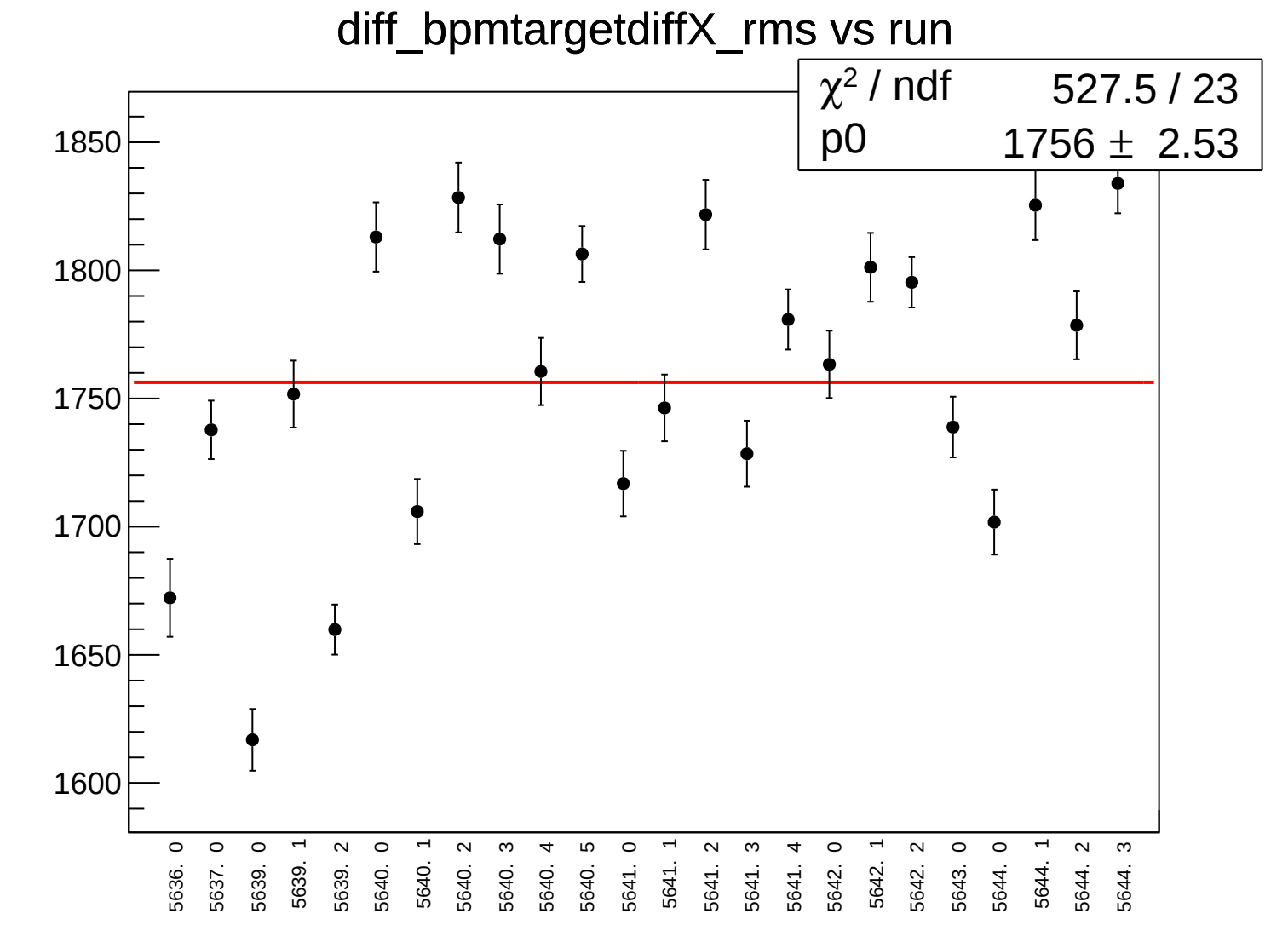

diff_bpmtargetsumX_mean vs run
χ² / ndf 24.35 / 23
p0 −25.97 ± 45.69
800
600
400
200
0
−200
−400
−600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

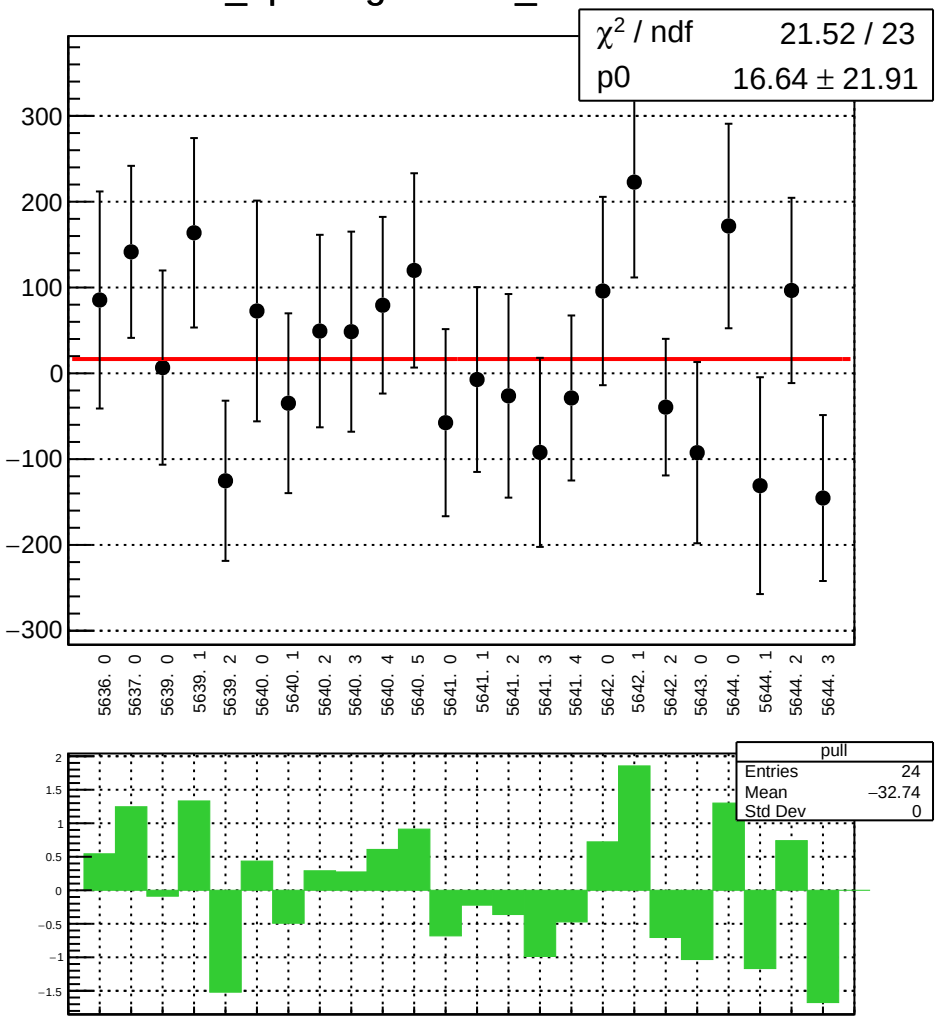

pull
Entries 24
Mean 27.77
Std Dev 26.55
1.5
1
0.5
0
−0.5
−1
−1.5

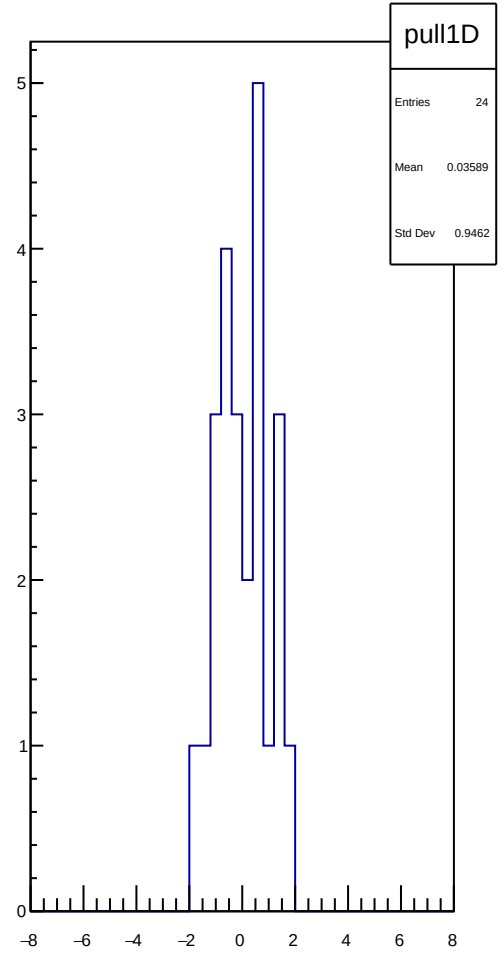

pull1D
Entries 24
Mean 0.01995
Std Dev 1.007
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

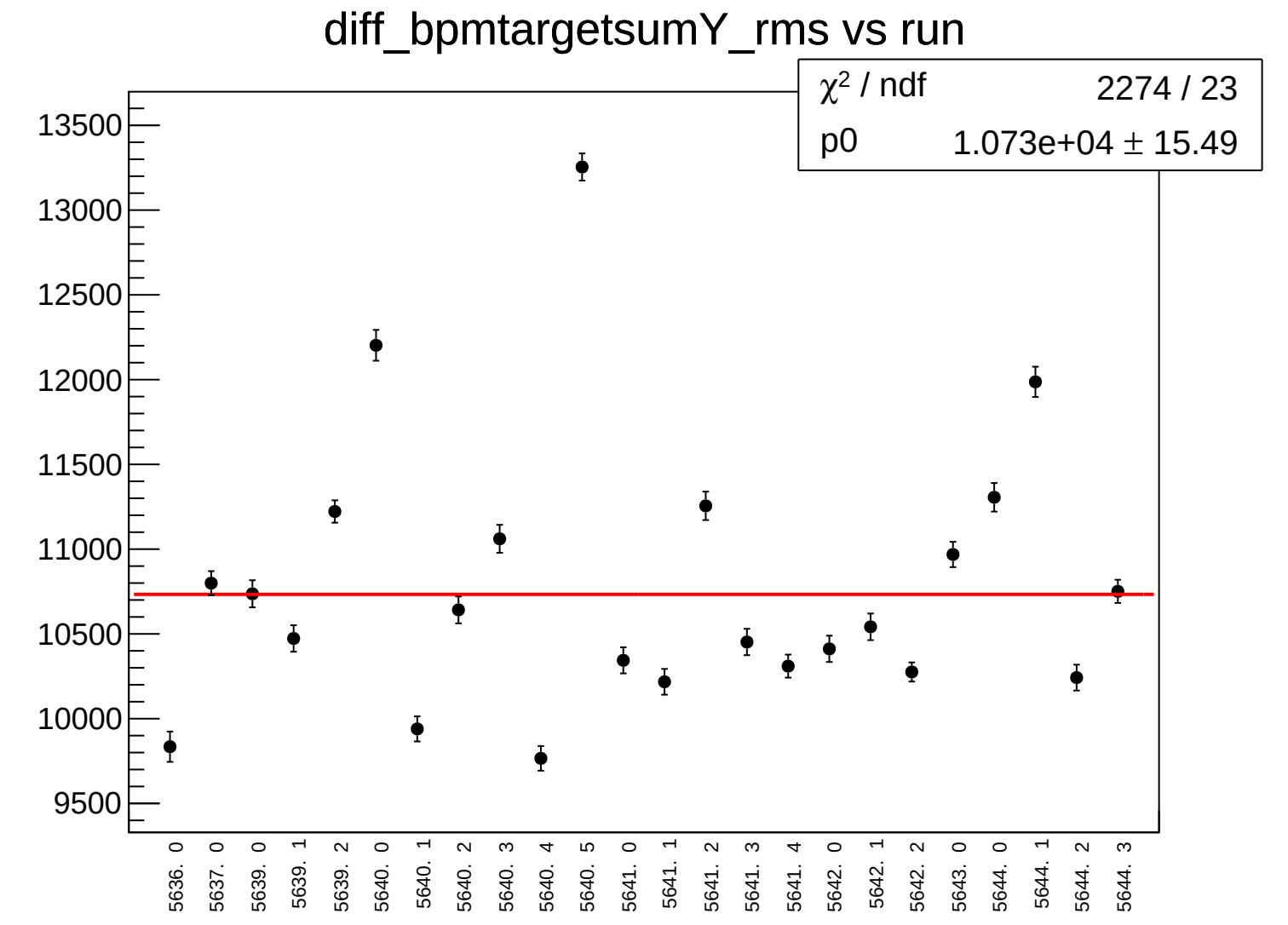

diff_bpmtargetsumX_rms vs run
χ² / ndf 820 / 23
p0 2.241e+04 ± 32.3
24500
24000
23500
23000
22500
22000
21500
21000
20500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

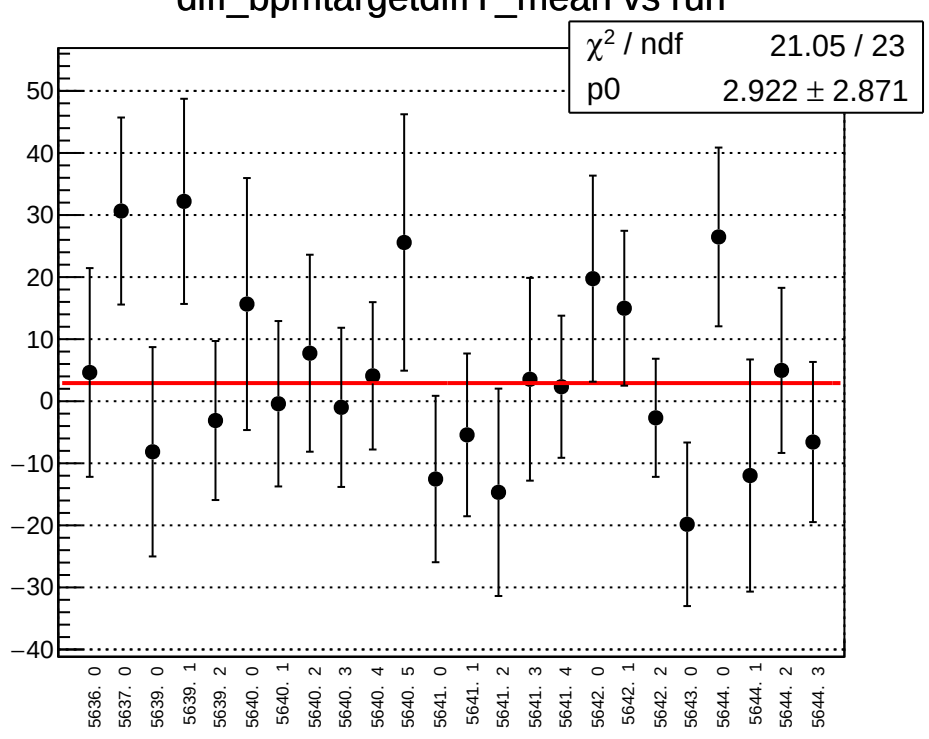

diff_bpmtargetdiffX_mean vs run
χ² / ndf 22.78 / 23
p0 −0.5142 ± 3.579
60
40
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 78.34
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.0154
Std Dev 0.9742
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

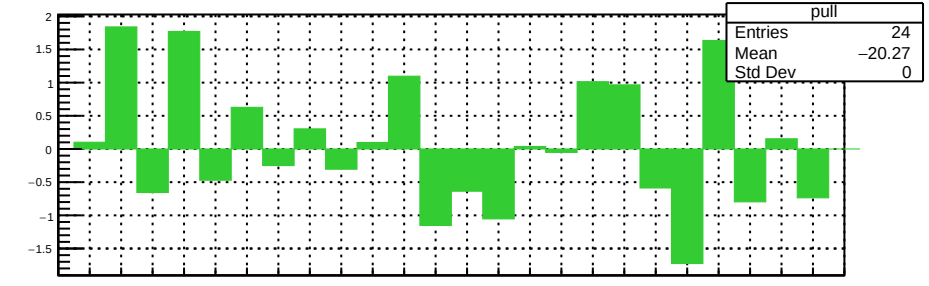

diff_bpmtargetdiffX_rms vs run
χ² / ndf 527.5 / 23
p0 1756 ± 2.53
1850
1800
1750
1700
1650
1600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

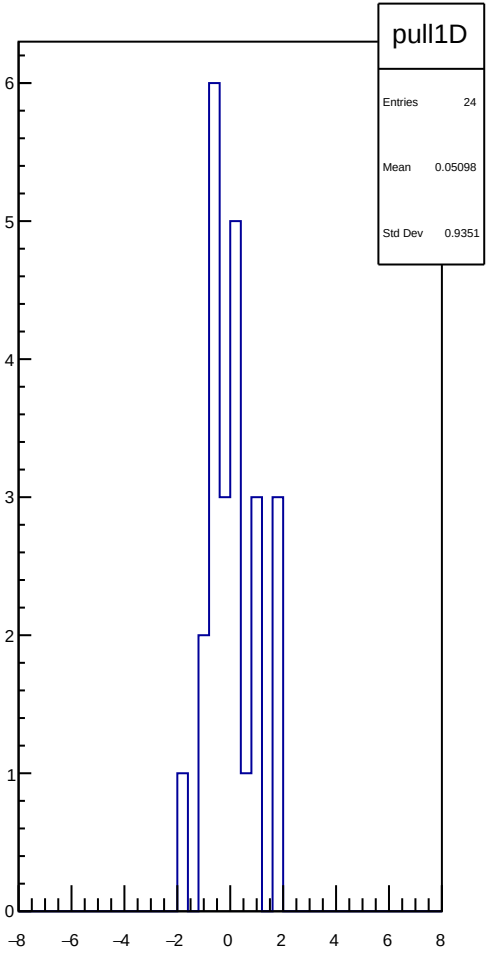

diff_bpmtargetsumY_mean vs run
χ^2 / ndf 21.52 / 23
p0 16.64 ± 21.91
300
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −32.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

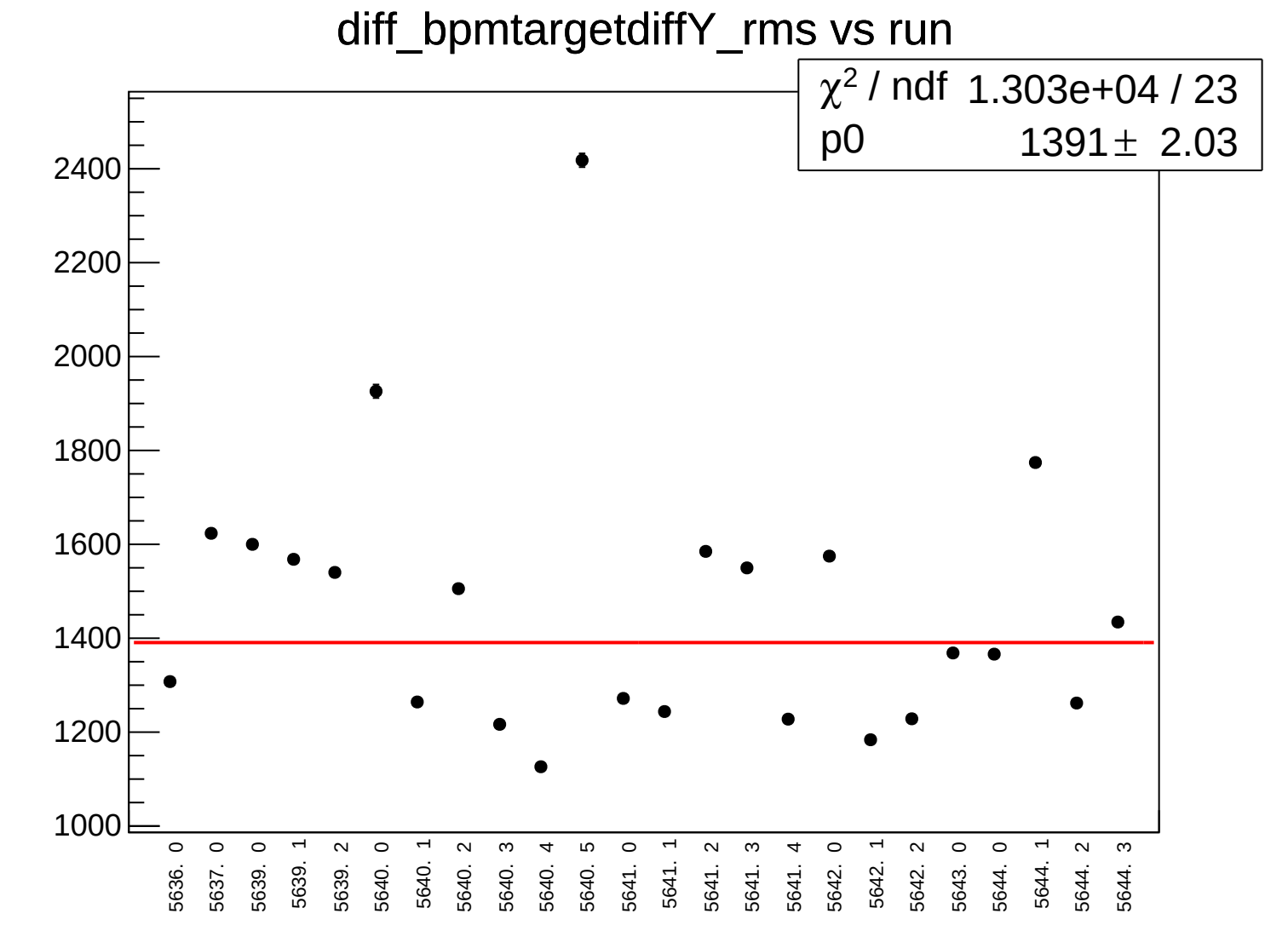

pull1D
Entries 24
Mean 0.03589
Std Dev 0.9462
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

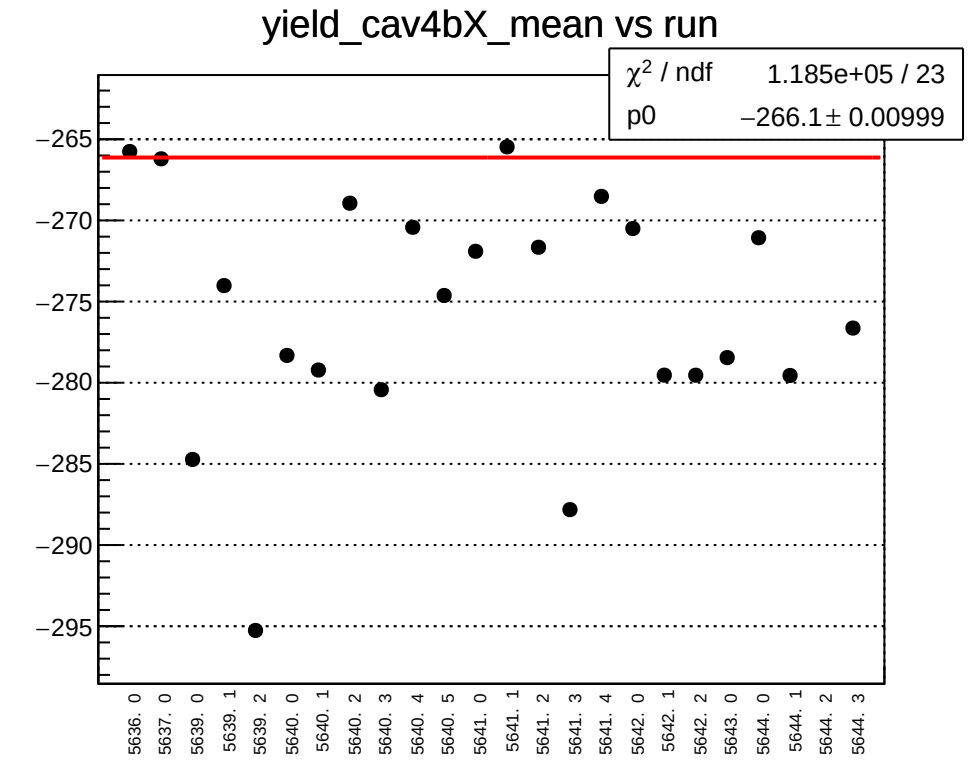

diff_bpmtargetsumY_rms vs run
χ² / ndf 2274 / 23
p0 1.073e+04 ± 15.49
13500
13000
12500
12000
11500
11000
10500
10000
9500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

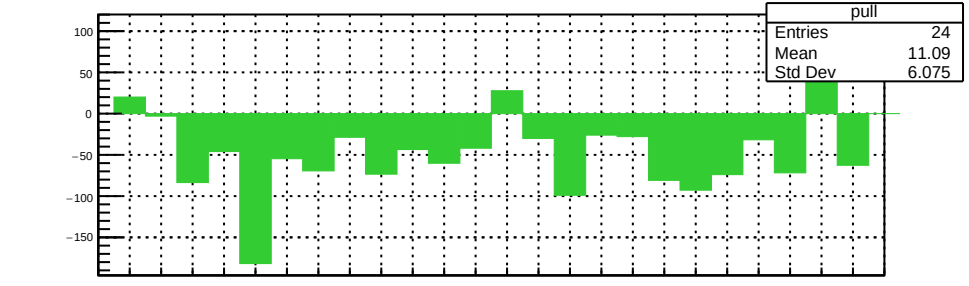

diff_bpmtargetdiffY_mean vs run
χ² / ndf 21.05 / 23
p0 2.922 ± 2.871
50
40
30
20
10
0
−10
−20
−30
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

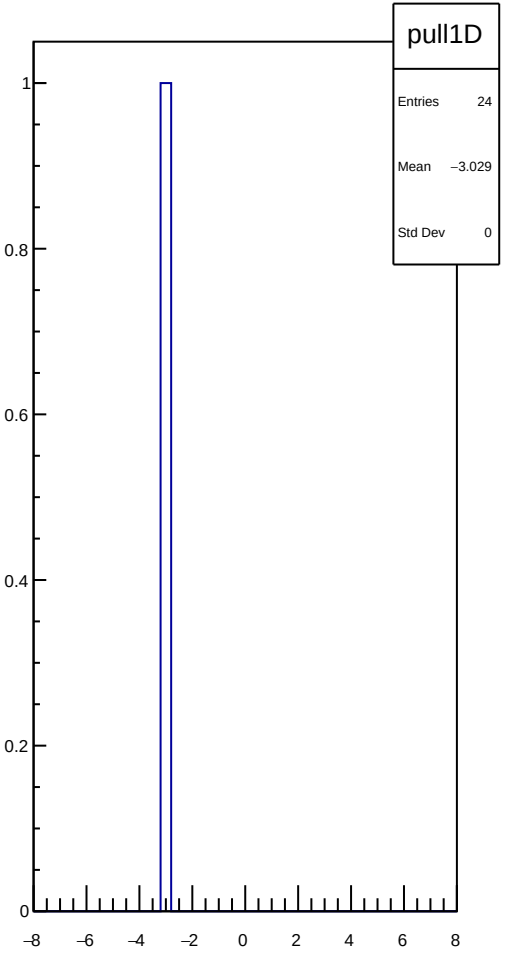

pull
Entries 24
Mean −20.27
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

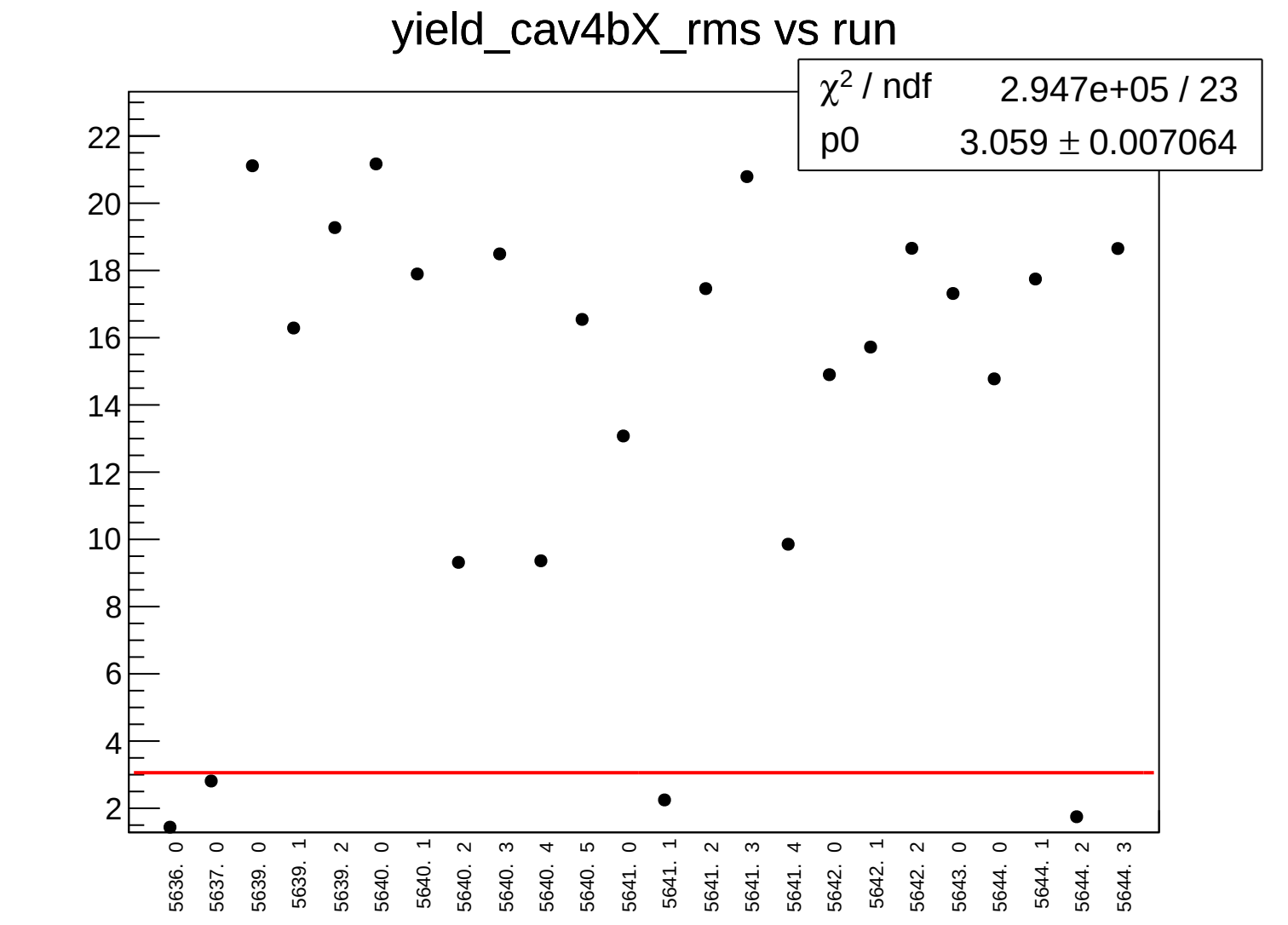

pull1D
Entries 24
Mean 0.05098
Std Dev 0.9351
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

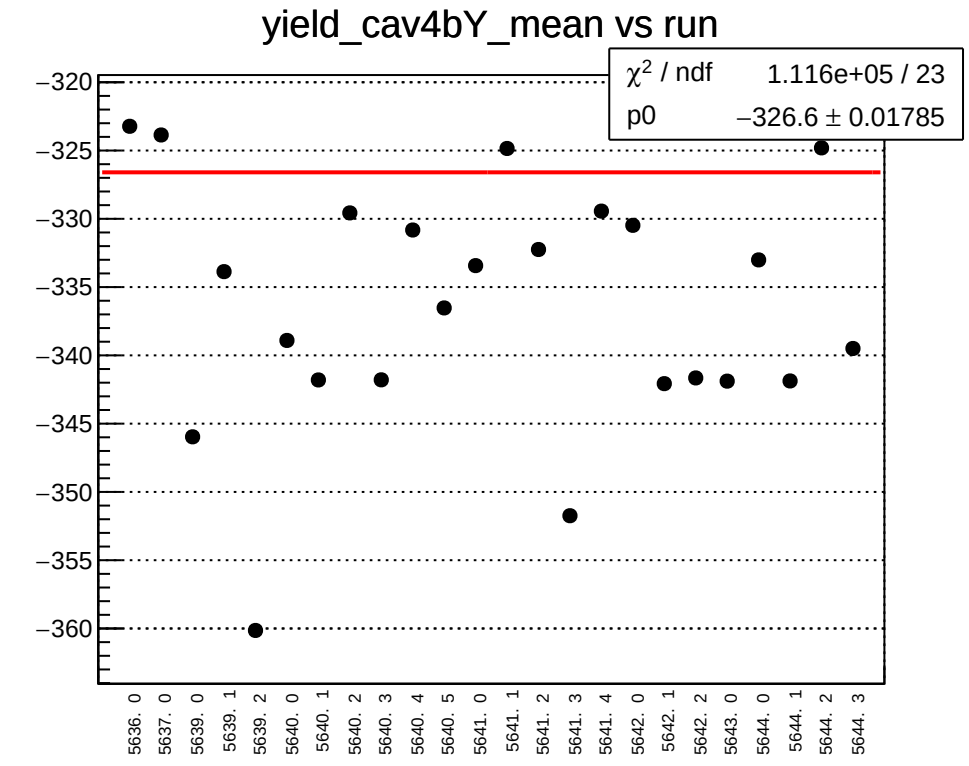

diff_bpmtargetdiffY_rms vs run
χ² / ndf 1.303e+04 / 23
p0 1391 ± 2.03
2400
2200
2000
1800
1600
1400
1200
1000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

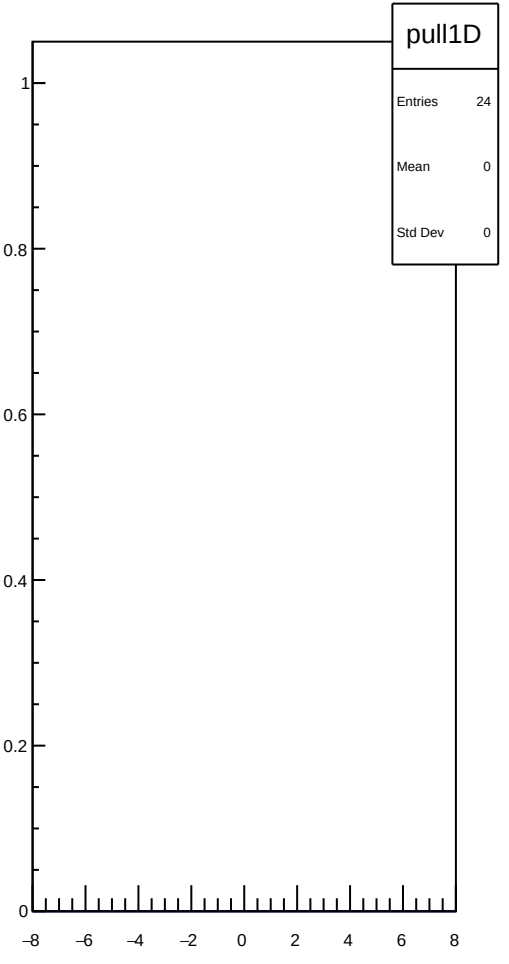

yield_cav4bX_mean vs run
χ² / ndf 1.185e+05 / 23
p0 −266.1 ± 0.00999
−265
−270
−275
−280
−285
−290
−295
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

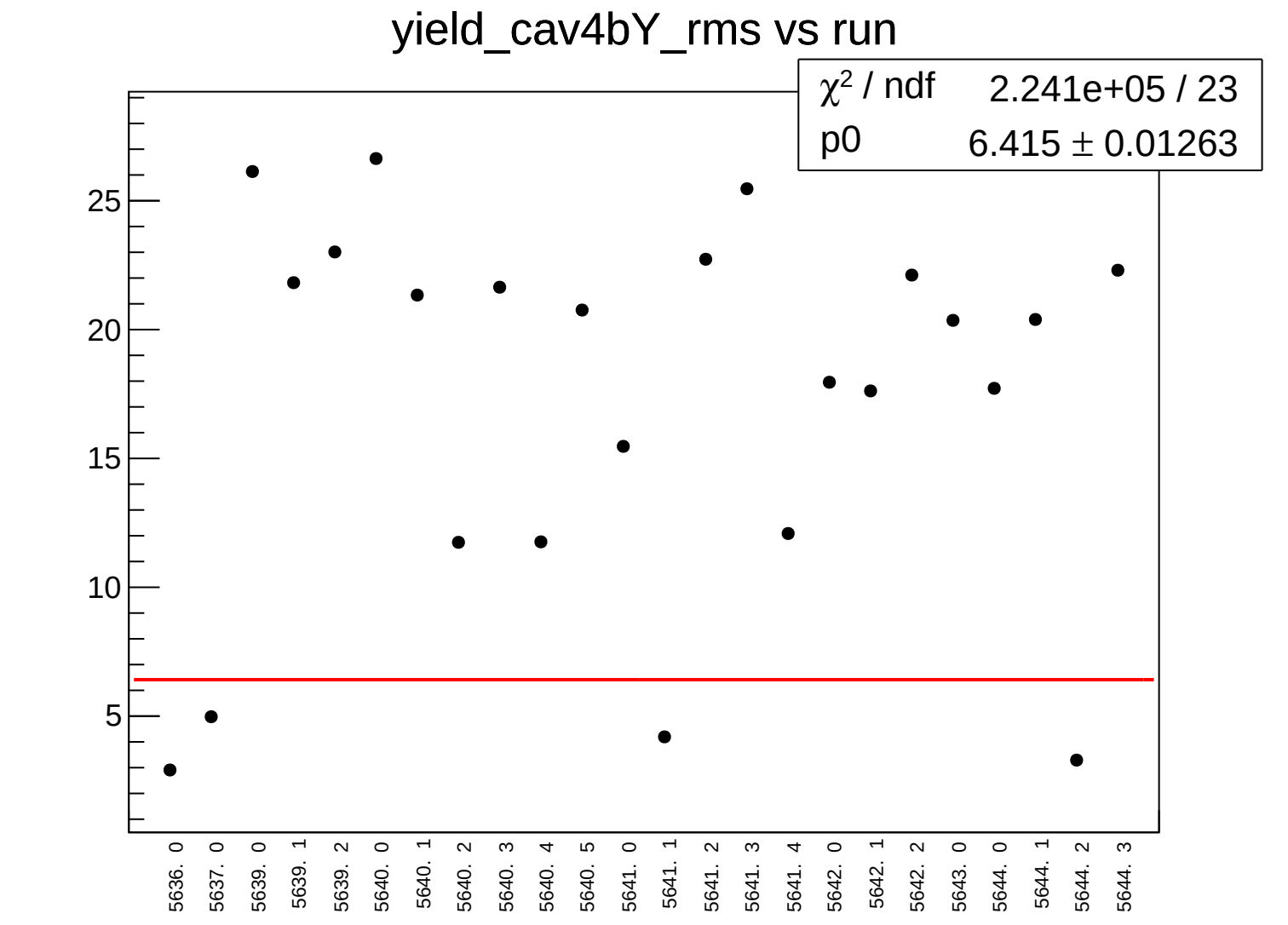

pull
Entries 24
Mean 11.09
Std Dev 6.075
100
50
0
−50
−100
−150

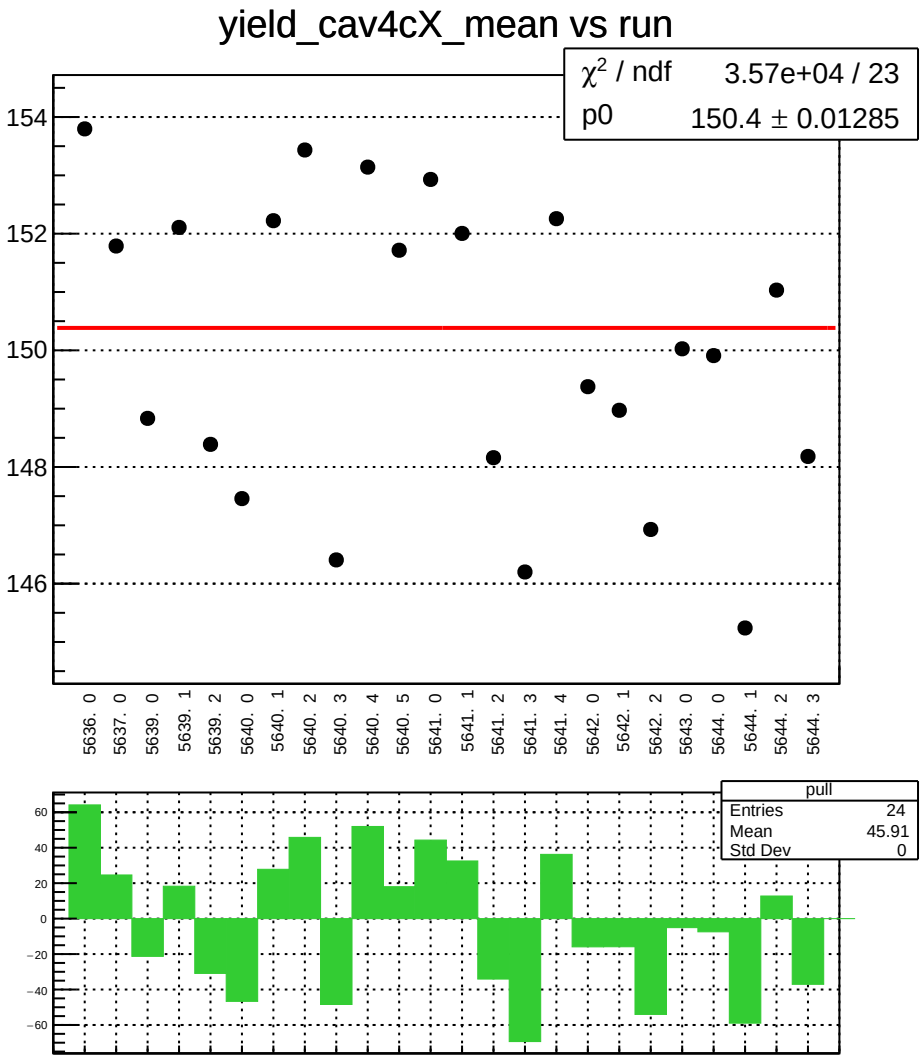

pull1D
Entries 24
Mean −3.029
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

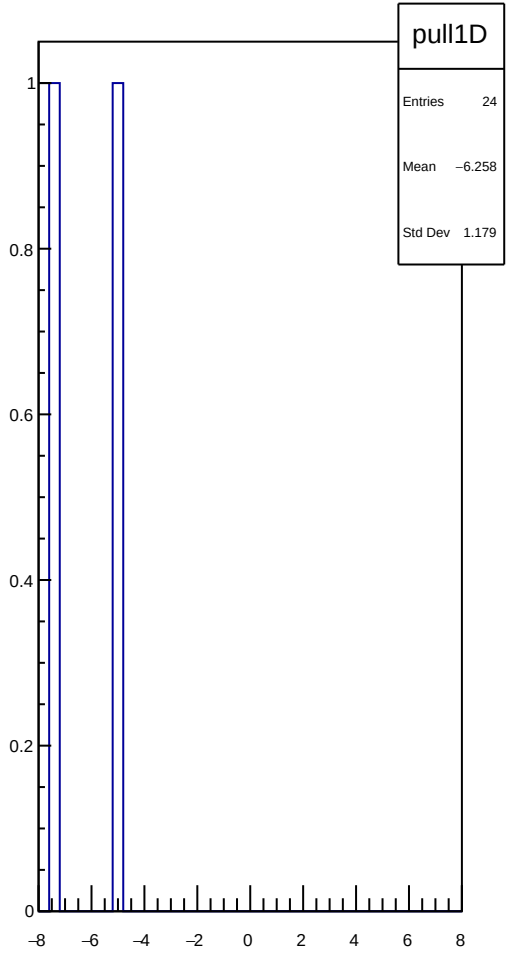

yield_cav4bX_rms vs run
χ^2 / ndf 2.947e+05 / 23
p0 3.059 ± 0.007064
22
20
18
16
14
12
10
8
6
4
2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

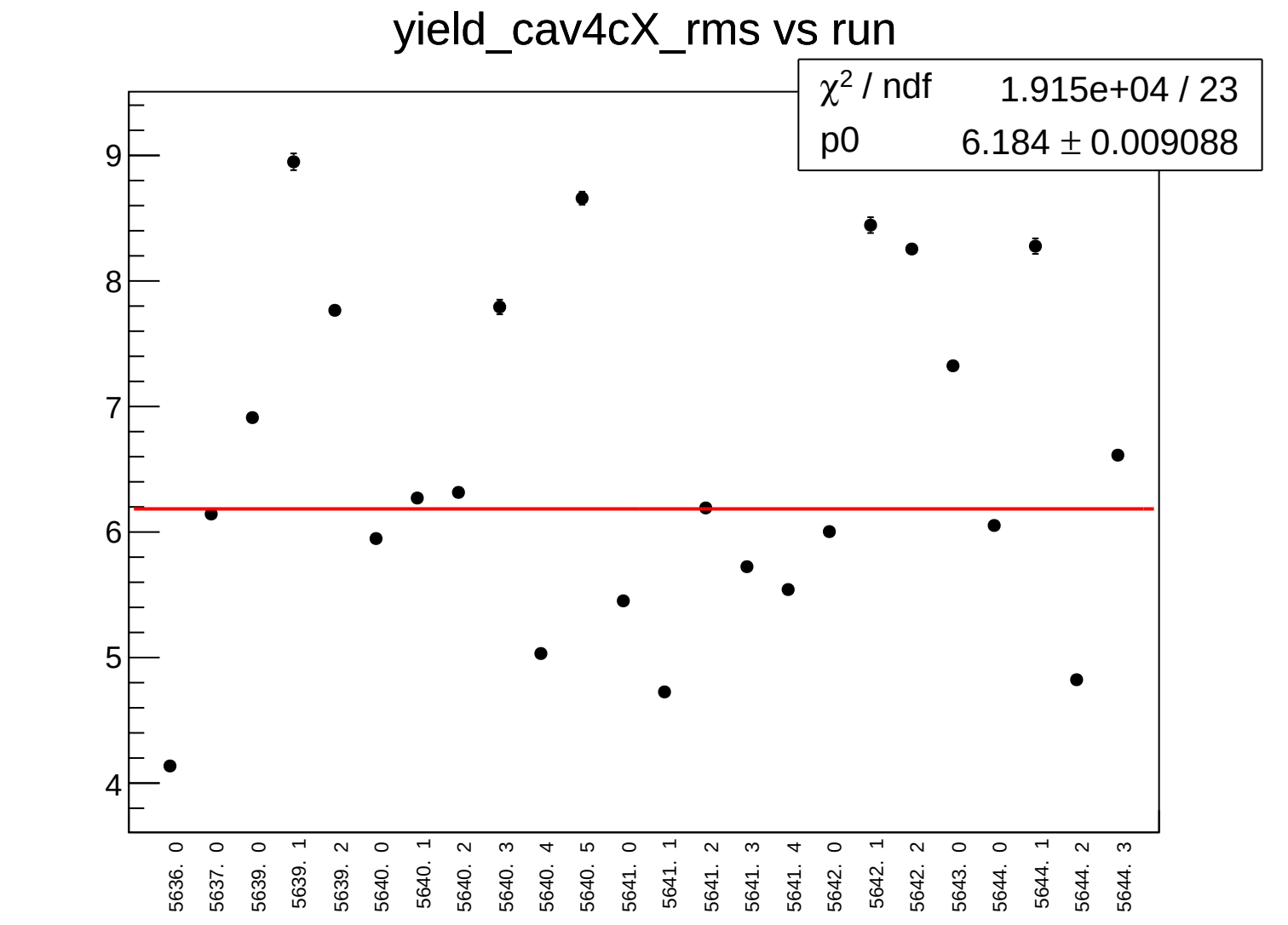

yield_cav4bY_mean vs run
χ² / ndf 1.116e+05 / 23
p0 −326.6 ± 0.01785
−320
−325
−330
−335
−340
−345
−350
−355
−360
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 13.5
Std Dev 5.336
100
50
0
−50
−100
−150

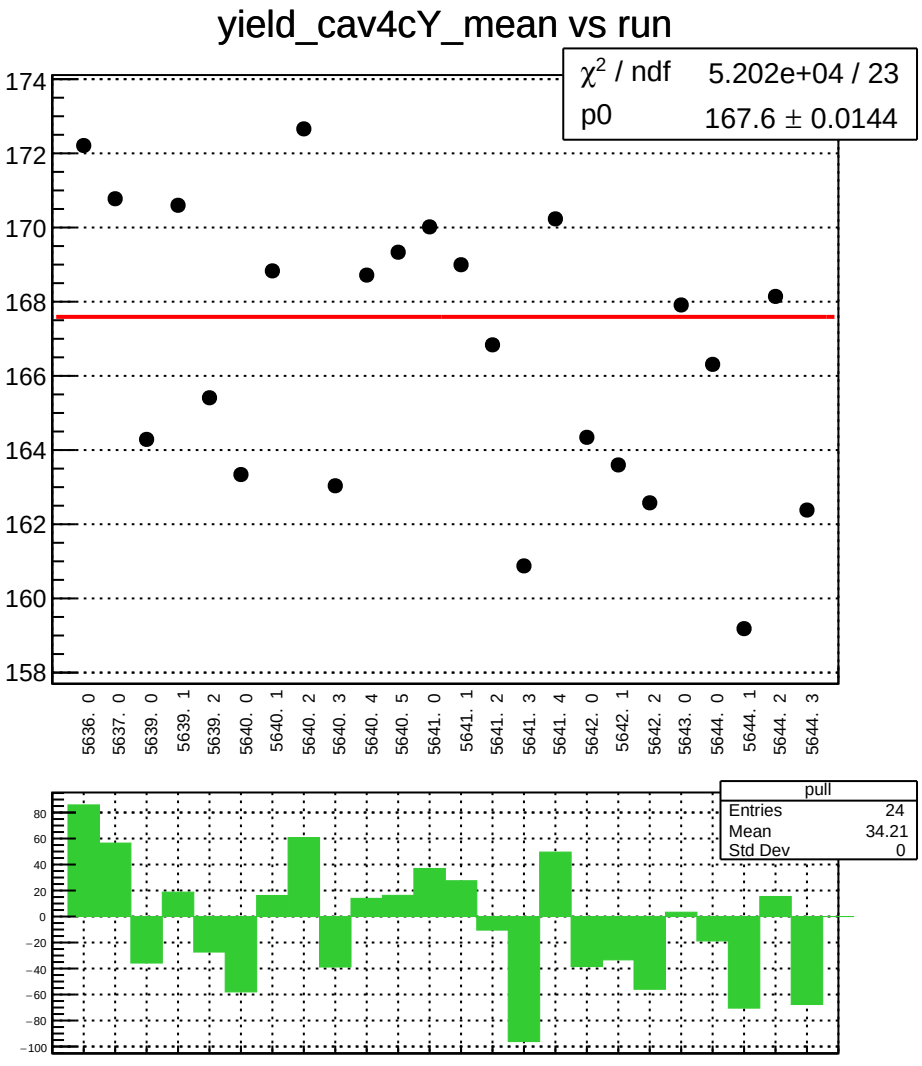

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

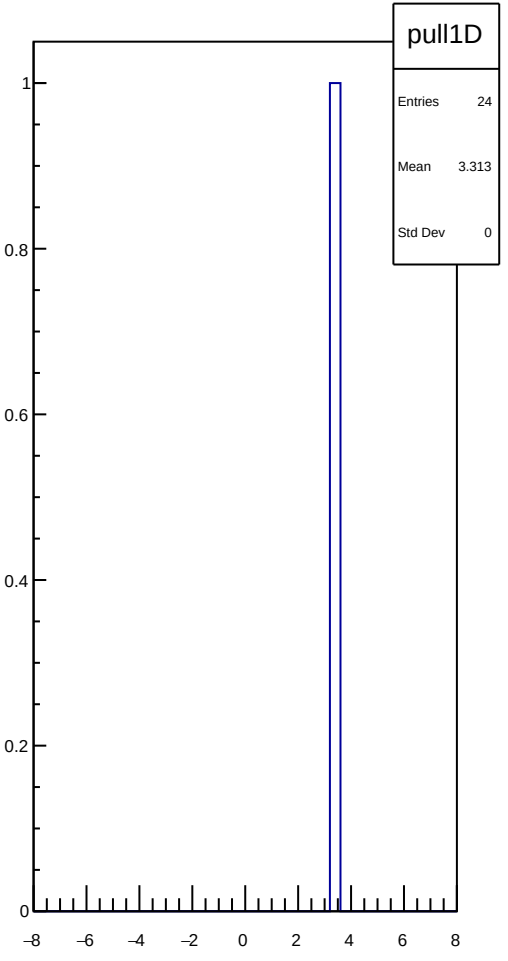

yield_cav4bY_rms vs run
χ² / ndf 2.241e+05 / 23
p0 6.415 ± 0.01263
25
20
15
10
5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

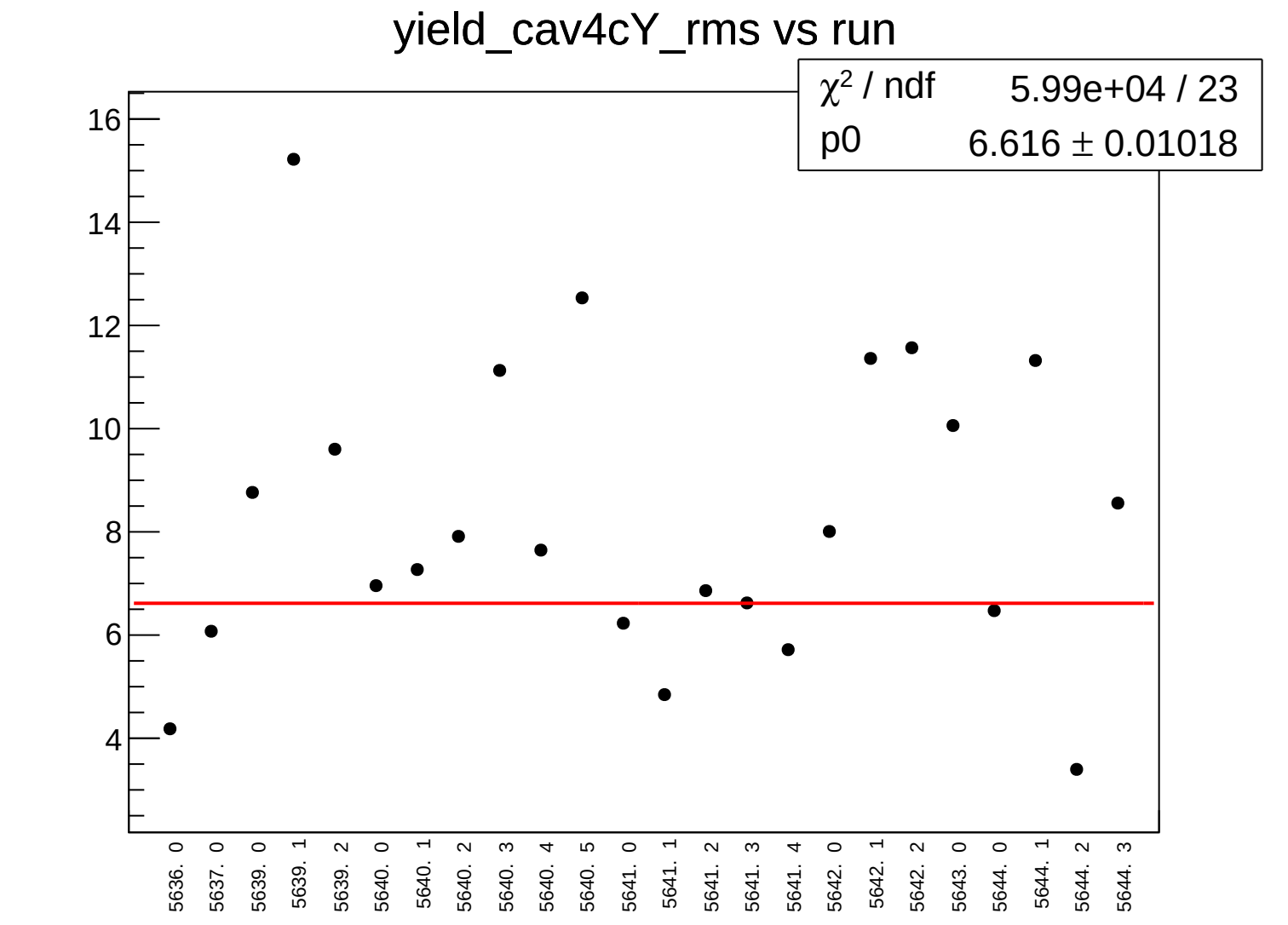

yield_cav4cX_mean vs run
χ² / ndf 3.57e+04 / 23
p0 150.4 ± 0.01285
154
152
150
148
146
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 45.91
Std Dev 0
60
40
20
0
−20
−40
−60

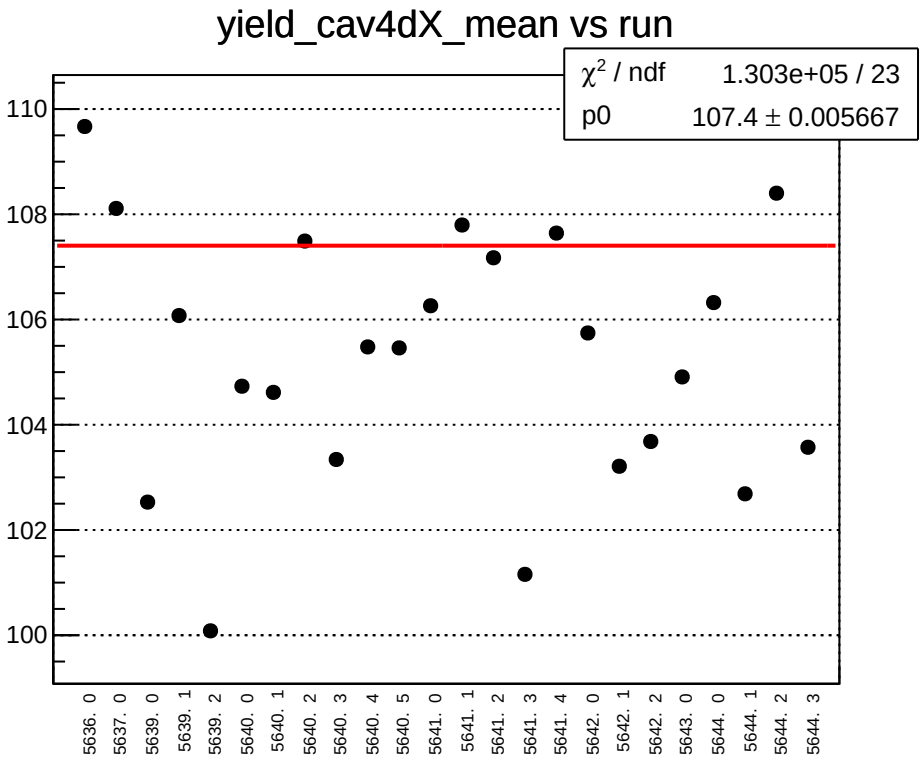

pull1D
Entries 24
Mean −6.258
Std Dev 1.179
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

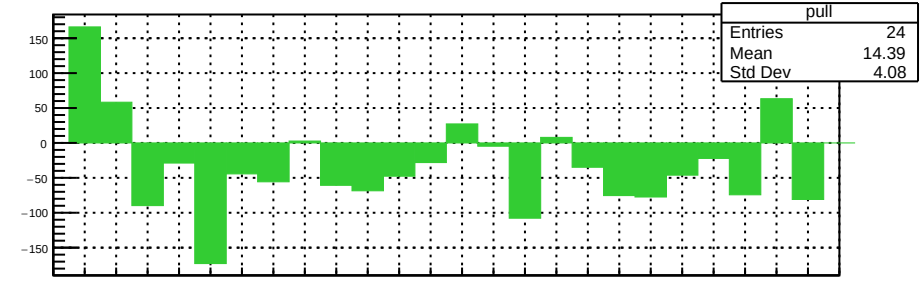

yield_cav4cX_rms vs run
χ² / ndf 1.915e+04 / 23
p0 6.184 ± 0.009088
9
8
7
6
5
4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

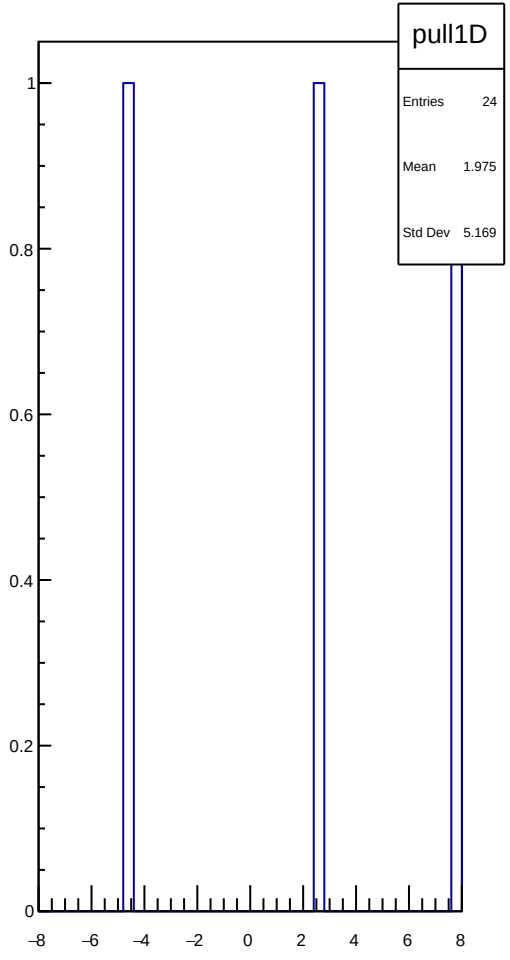

yield_cav4cY_mean vs run
χ² / ndf 5.202e+04 / 23
p0 167.6 ± 0.0144
174
172
170
168
166
164
162
160
158
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 34.21
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

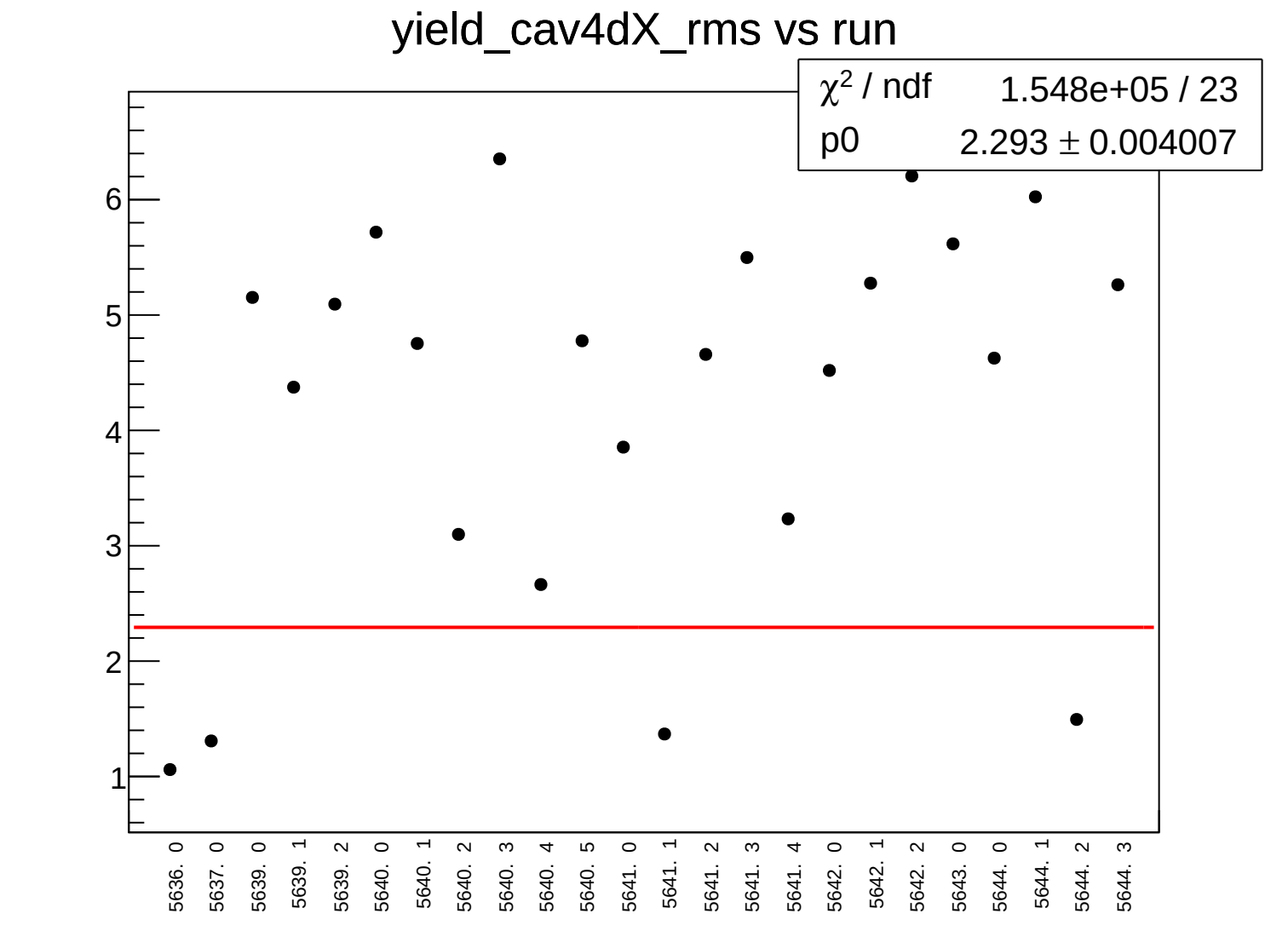

pull1D
Entries 24
Mean 3.313
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

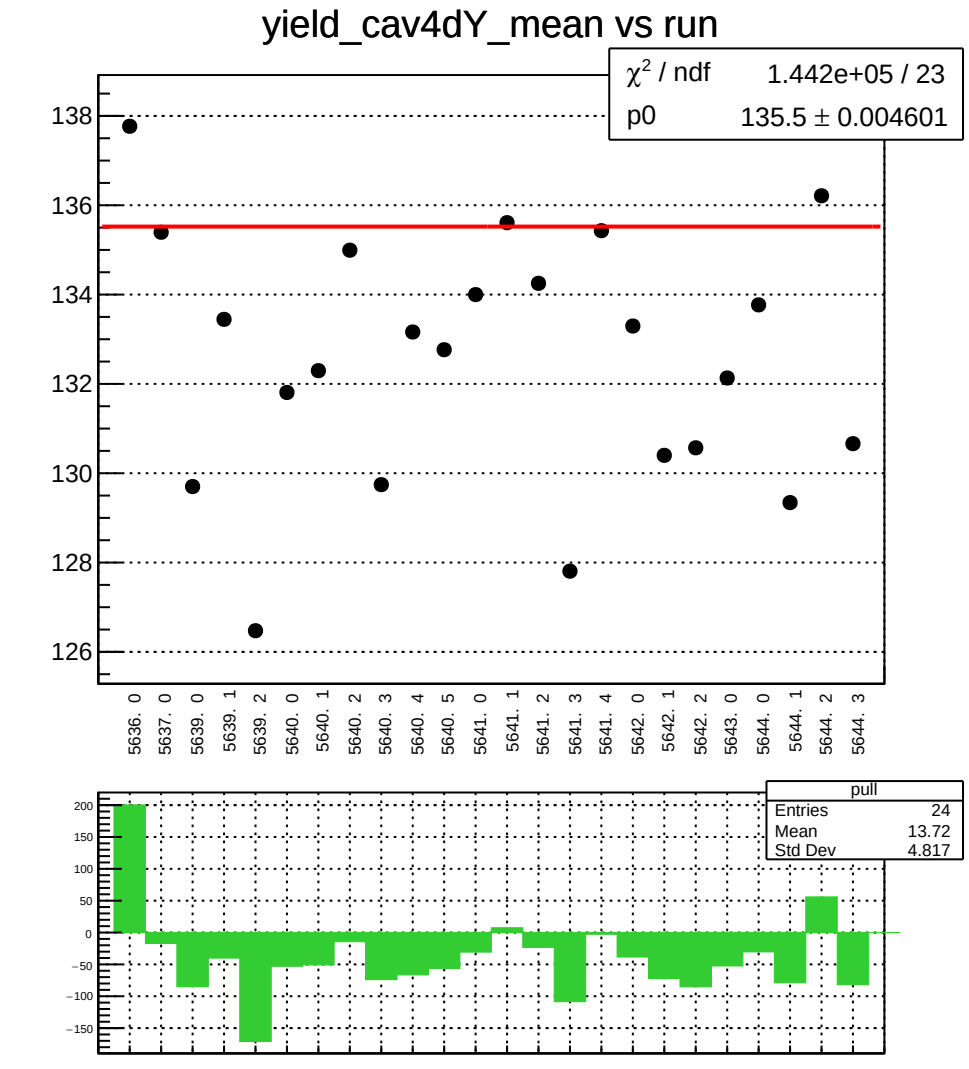

yield_cav4cY_rms vs run
χ² / ndf 5.99e+04 / 23
p0 6.616 ± 0.01018
16
14
12
10
8
6
4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

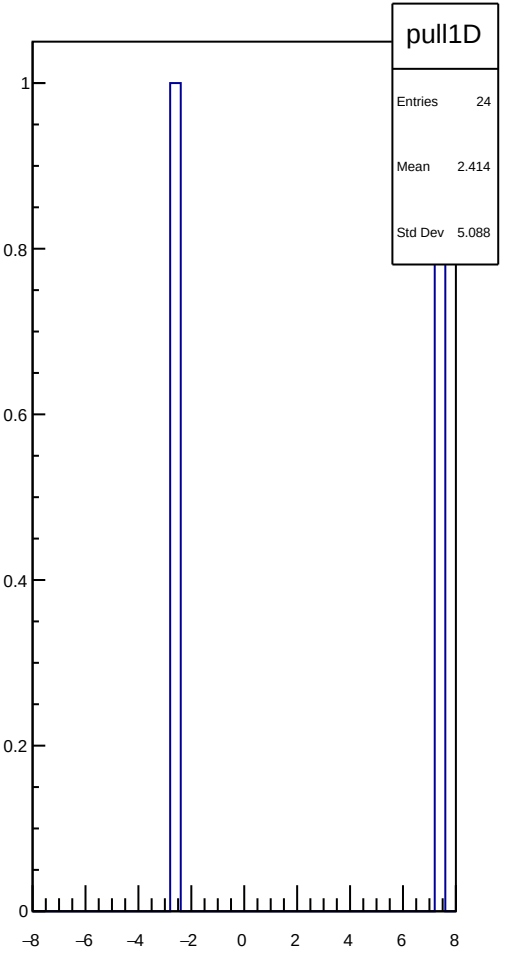

yield_cav4dX_mean vs run
χ² / ndf 1.303e+05 / 23
p0 107.4 ± 0.005667
110
108
106
104
102
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

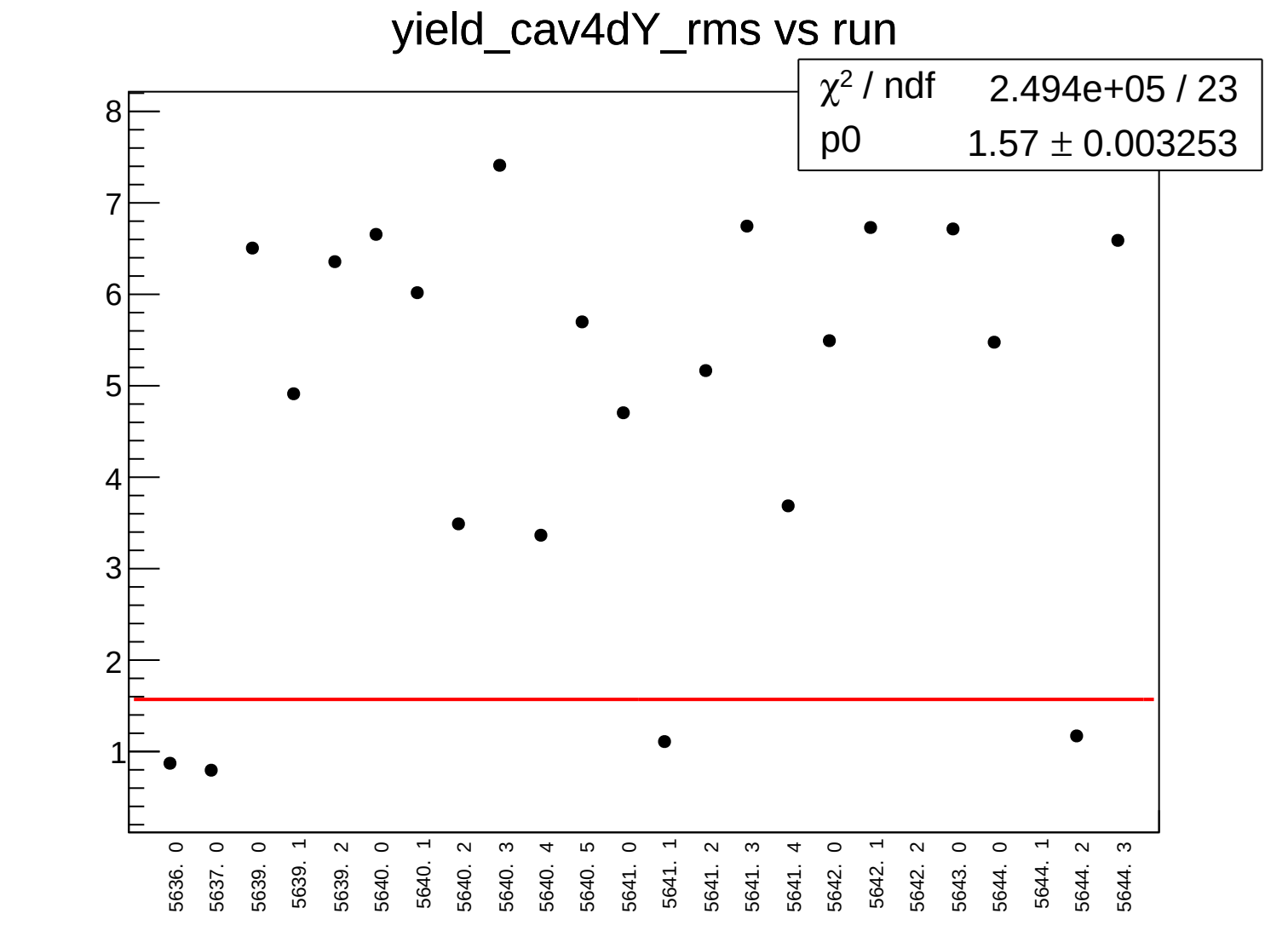

pull
Entries 24
Mean 14.39
Std Dev 4.08
150
100
50
0
−50
−100
−150

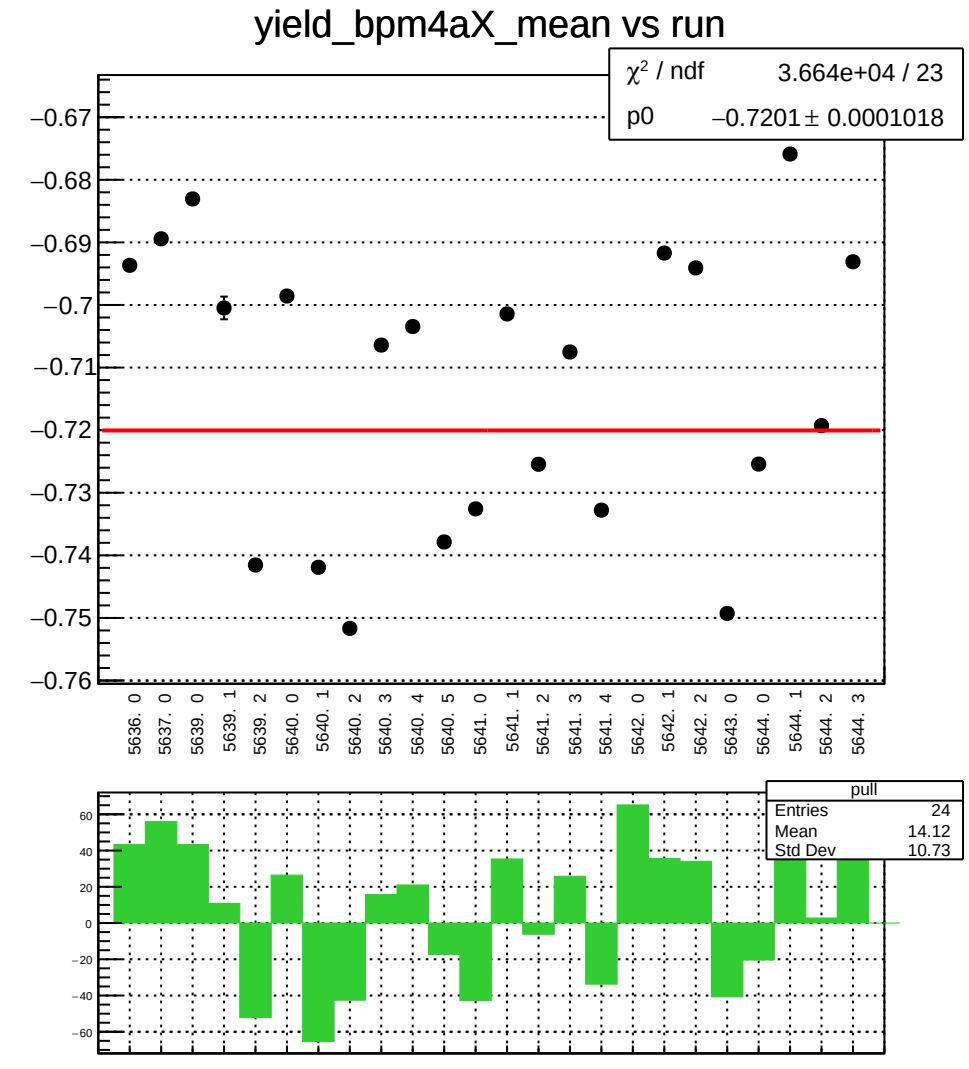

pull1D
Entries 24
Mean 1.975
Std Dev 5.169
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

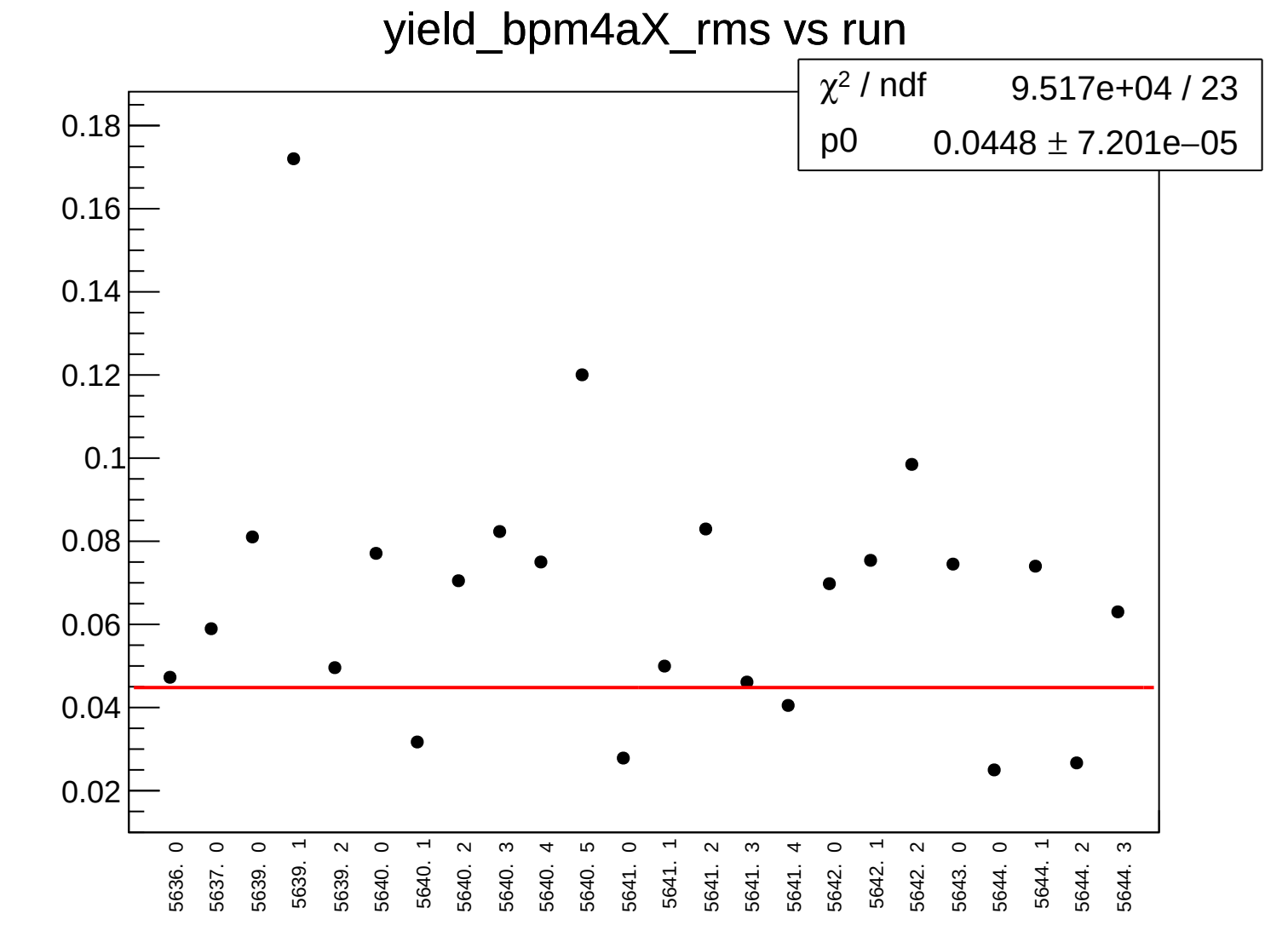

yield_cav4dX_rms vs run
χ^2 / ndf 1.548e+05 / 23
p0 2.293 ± 0.004007
1
2
3
4
5
6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

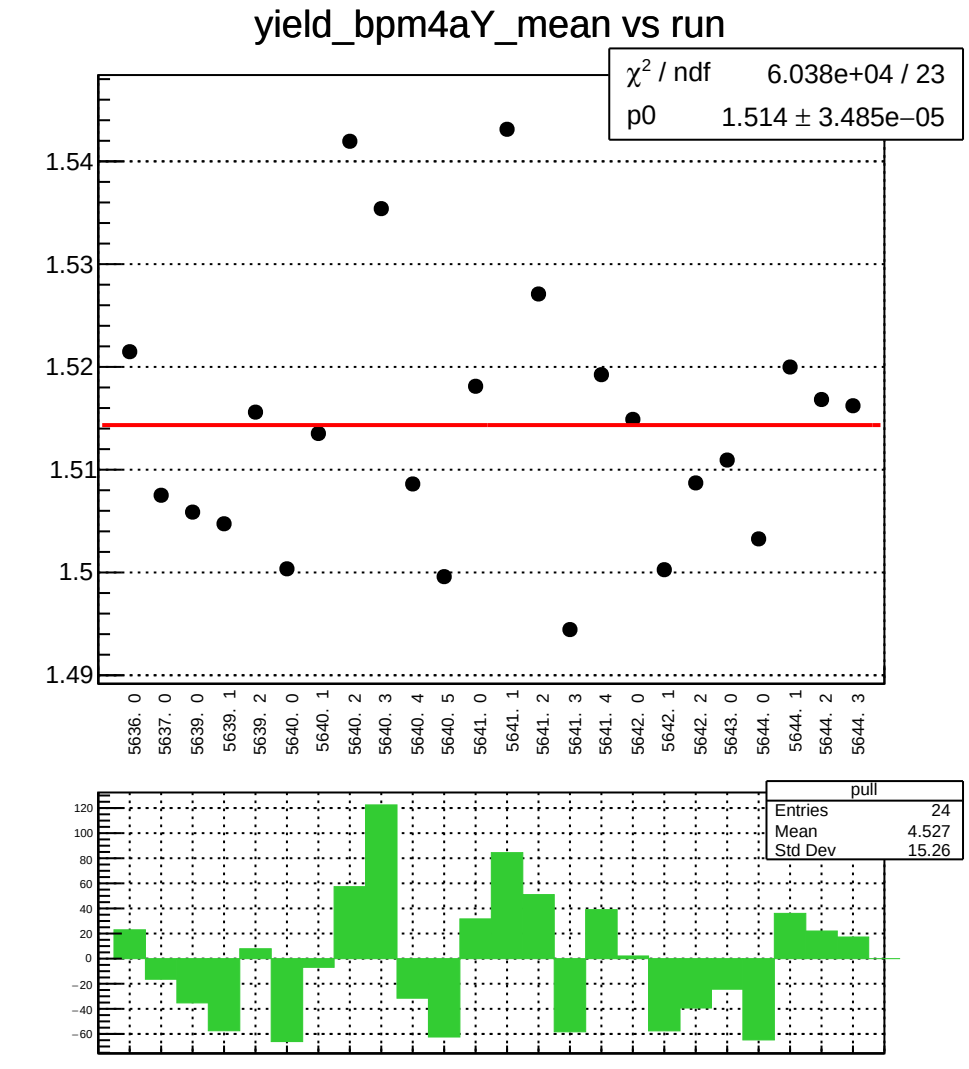

yield_cav4dY_mean vs run
χ² / ndf 1.442e+05 / 23
p0 135.5 ± 0.004601
138
136
134
132
130
128
126
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 13.72
Std Dev 4.817
200
150
100
50
0
−50
−100
−150

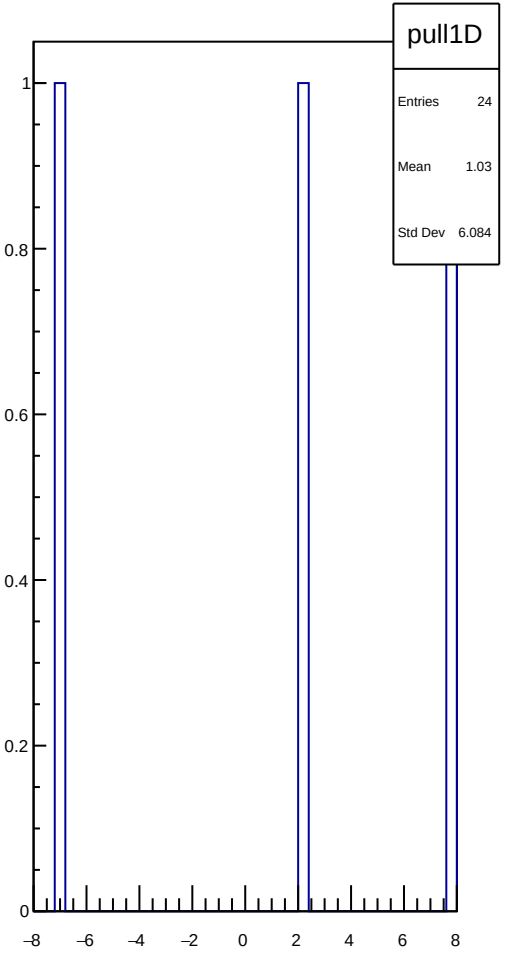

pull1D
Entries 24
Mean 2.414
Std Dev 5.088
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

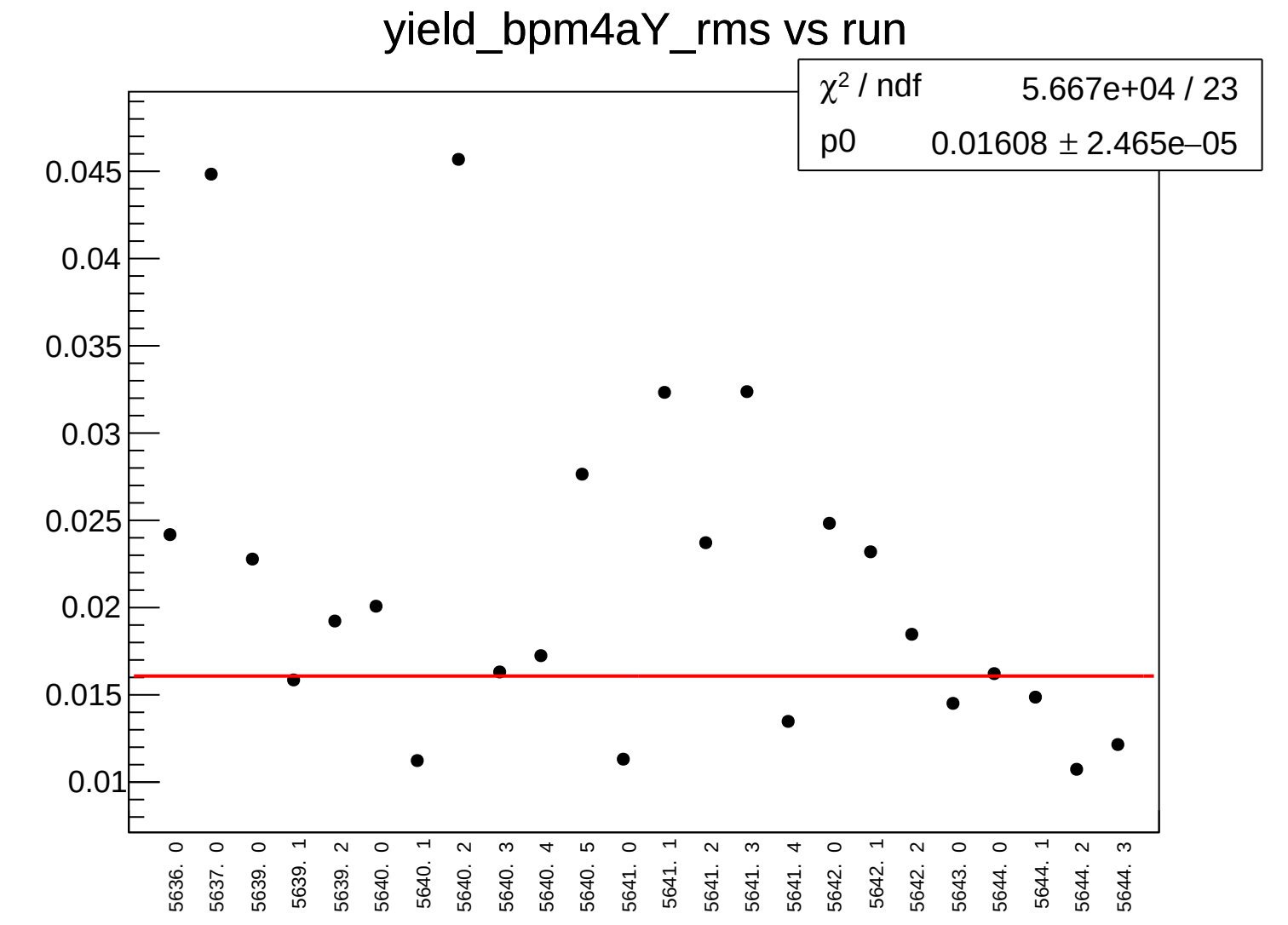

yield_cav4dY_rms vs run
χ² / ndf 2.494e+05 / 23
p0 1.57 ± 0.003253
8
7
6
5
4
3
2
1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

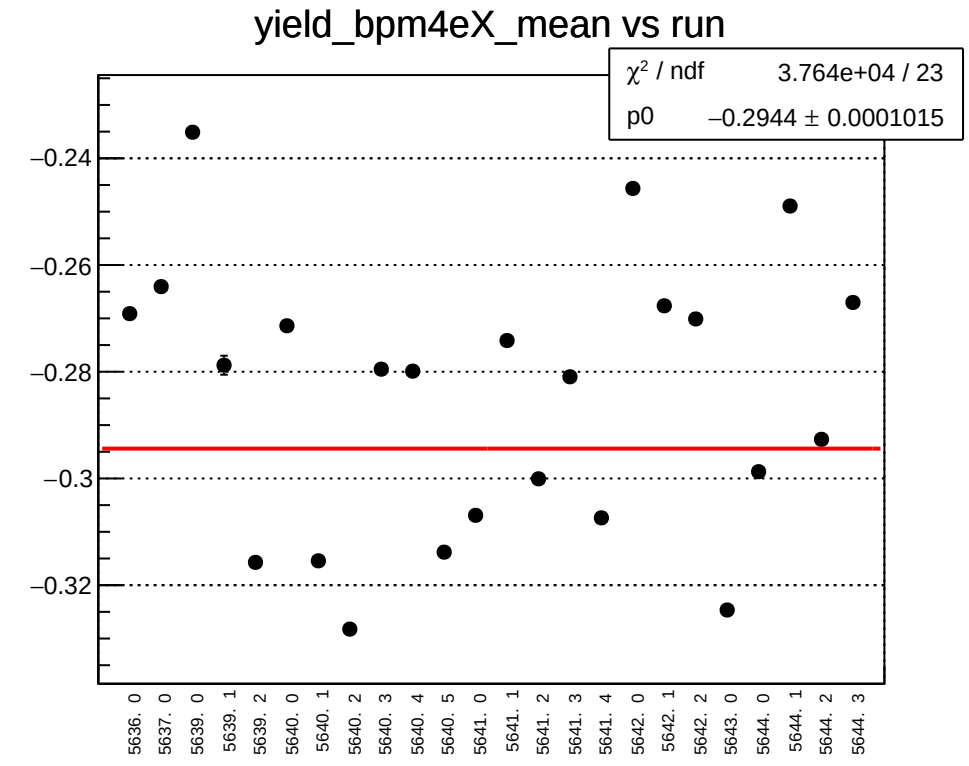

yield_bpm4aX_mean vs run
χ² / ndf 3.664e+04 / 23
p0 −0.7201 ± 0.0001018
−0.67
−0.68
−0.69
−0.7
−0.71
−0.72
−0.73
−0.74
−0.75
−0.76
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 14.12
Std Dev 10.73
60
40
20
0
−20
−40
−60
pull1D
Entries 24
Mean −1.706
Std Dev 4.47
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

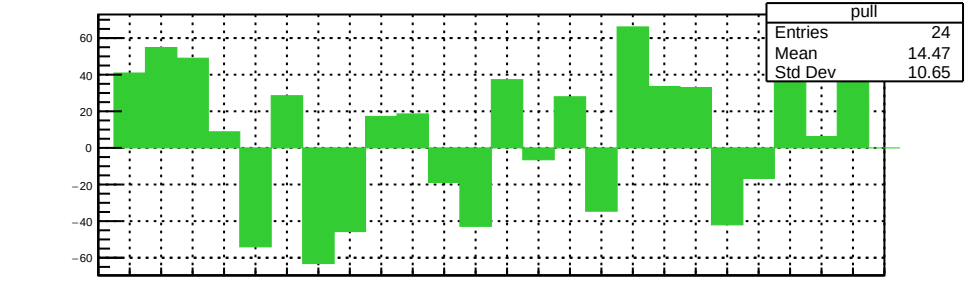

yield_bpm4aX_rms vs run
χ² / ndf 9.517e+04 / 23
p0 0.0448 ± 7.201e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

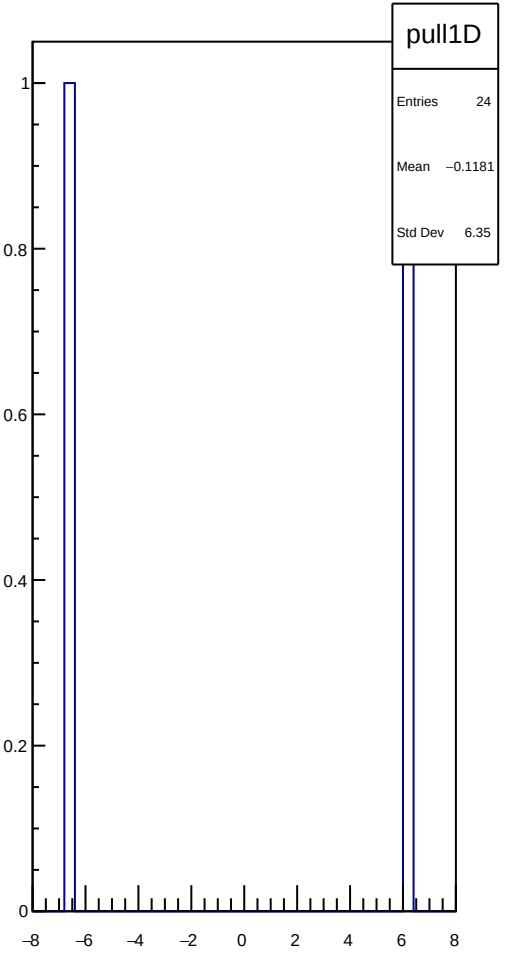

yield_bpm4aY_mean vs run
χ² / ndf 6.038e+04 / 23
p0 1.514 ± 3.485e−05
1.54
1.53
1.52
1.51
1.5
1.49
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 4.527
Std Dev 15.26
120
100
80
60
40
20
0
−20
−40
−60

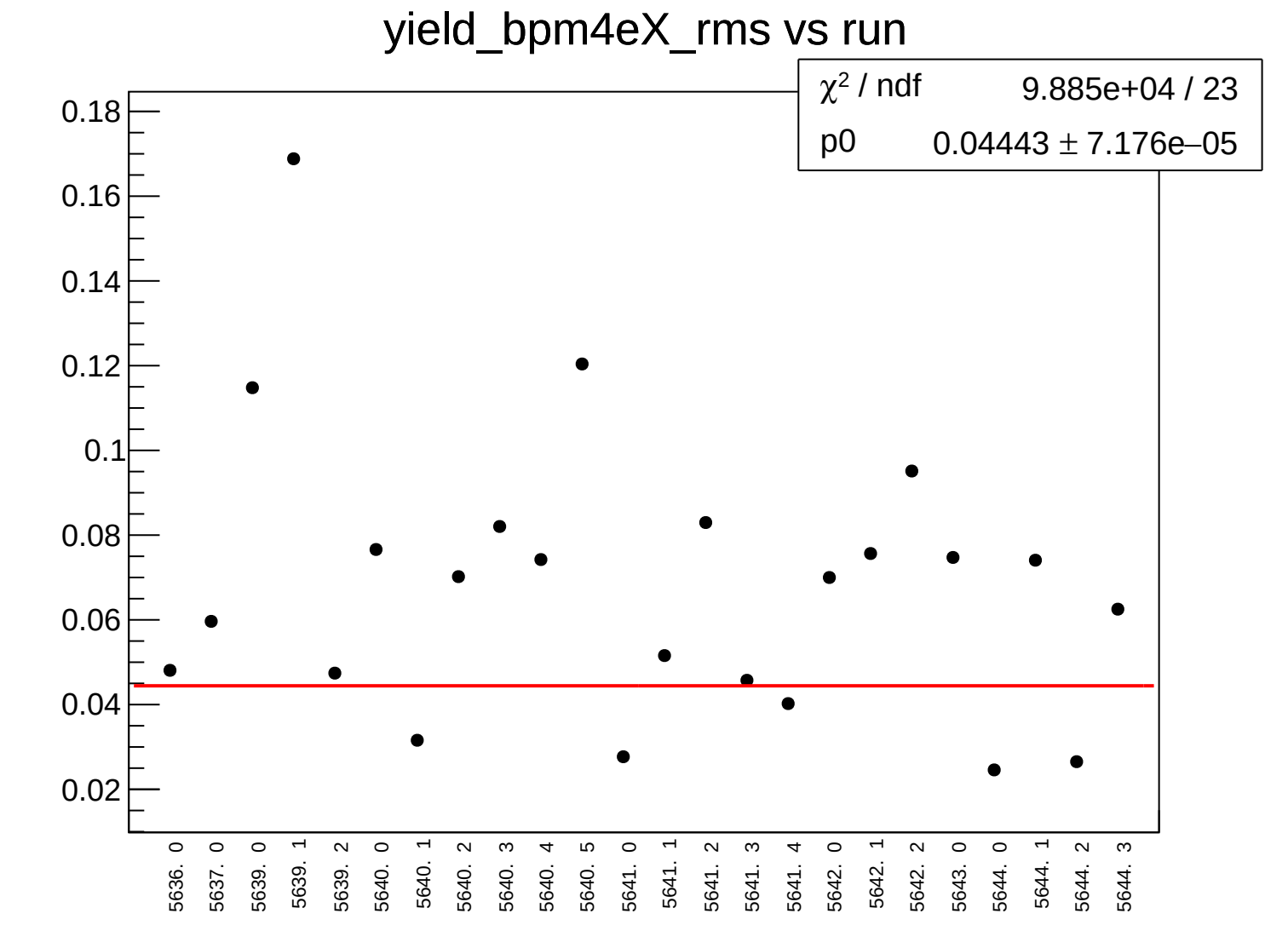

pull1D
Entries 24
Mean 1.03
Std Dev 6.084
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm4aY_rms vs run
χ² / ndf 5.667e+04 / 23
p0 0.01608 ± 2.465e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


yield_bpm4eX_mean vs run
χ² / ndf 3.764e+04 / 23
p0 −0.2944 ± 0.0001015
−0.24
−0.26
−0.28
−0.3
−0.32
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


pull
Entries 24
Mean 14.47
Std Dev 10.65
60
40
20
0
−20
−40
−60


pull1D
Entries 24
Mean −0.1181
Std Dev 6.35
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 9.885e+04 / 23
p0 0.04443 ± 7.176e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5641. 4
5642. 0
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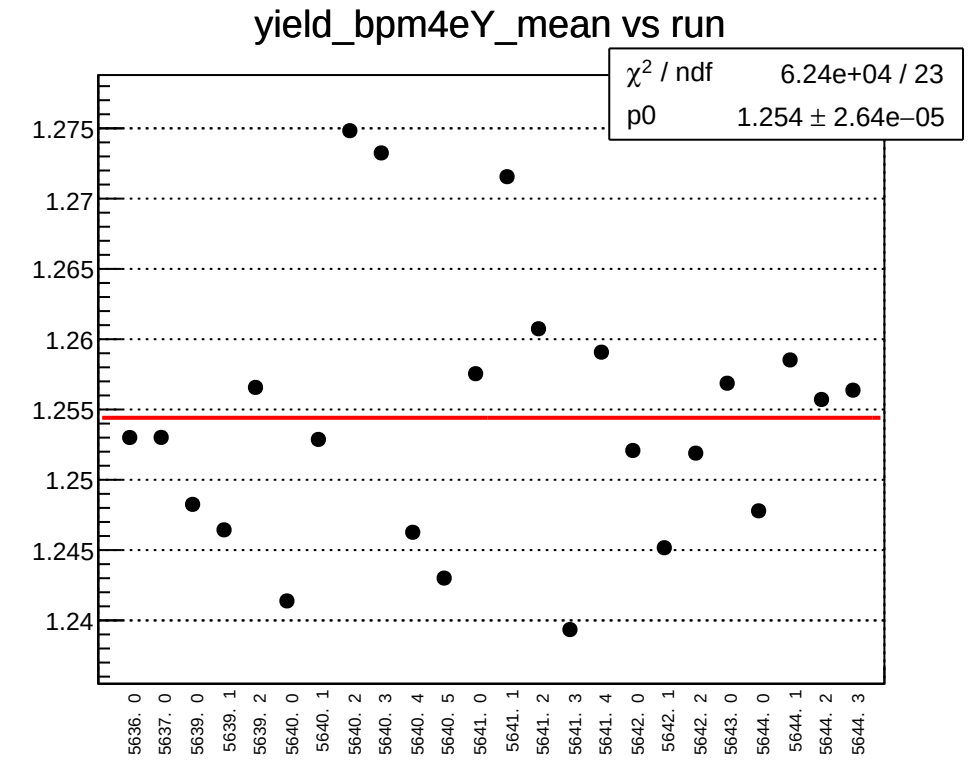
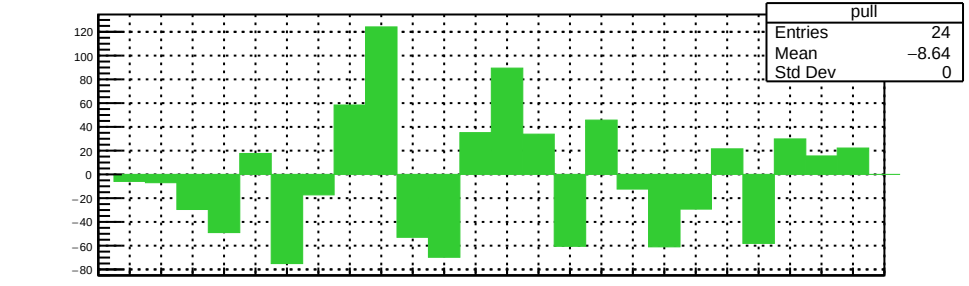
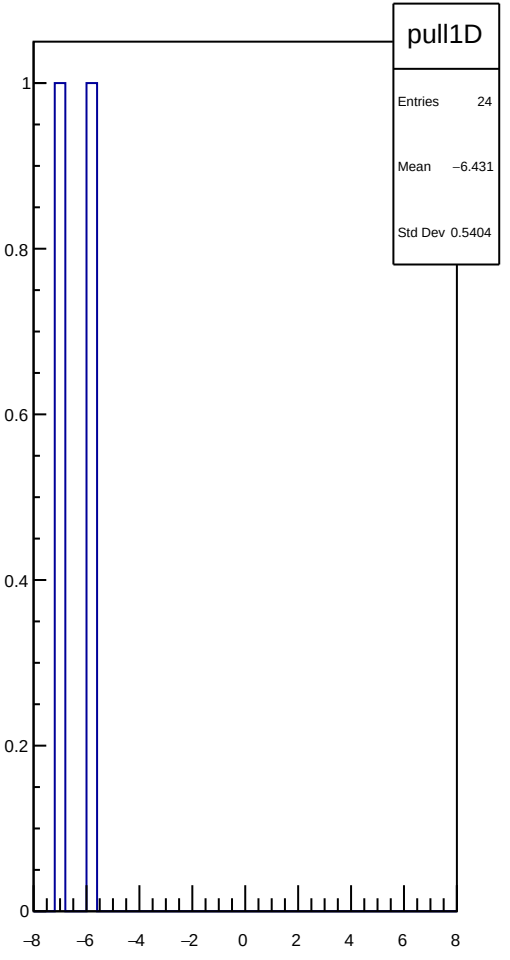
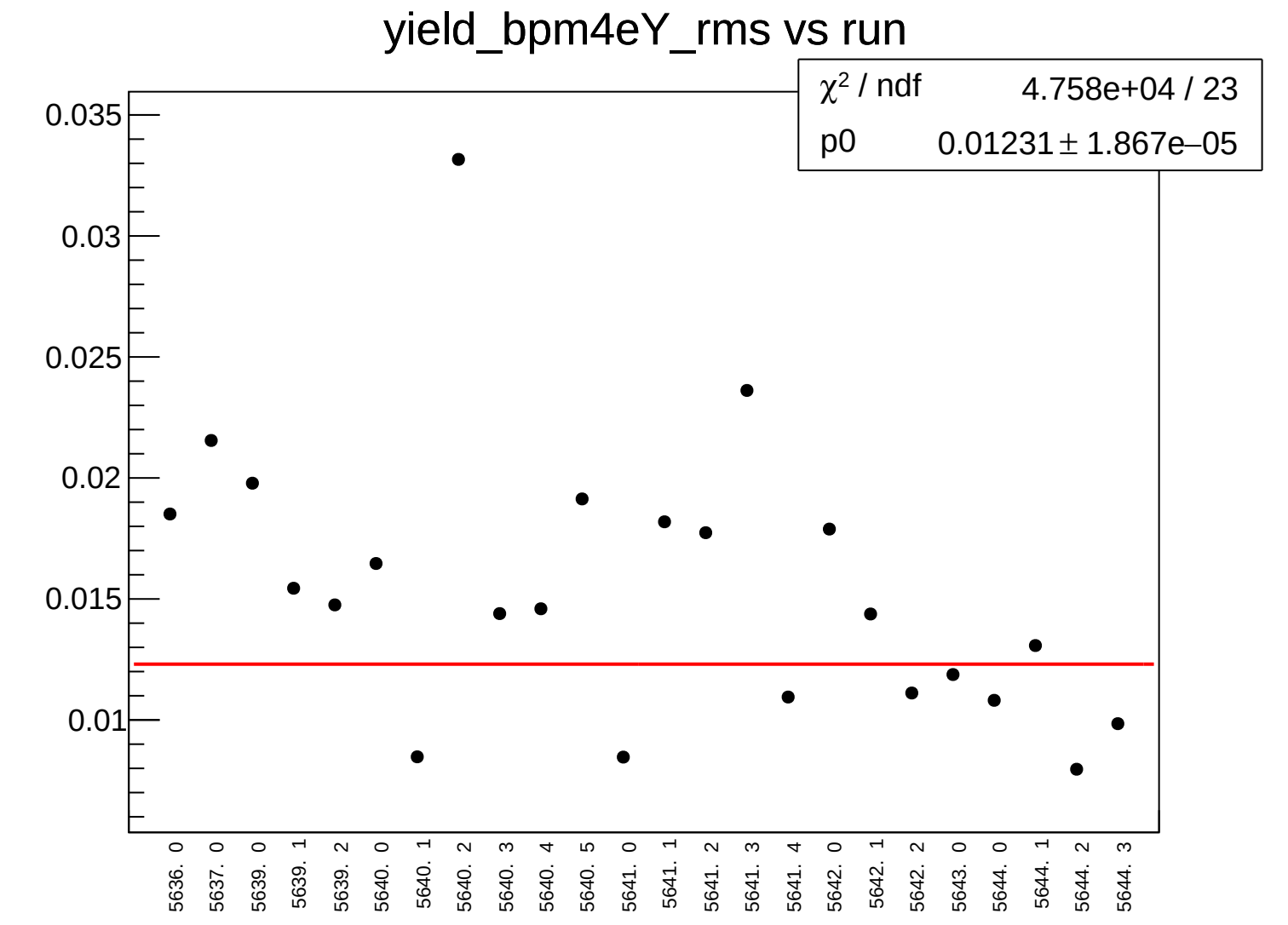
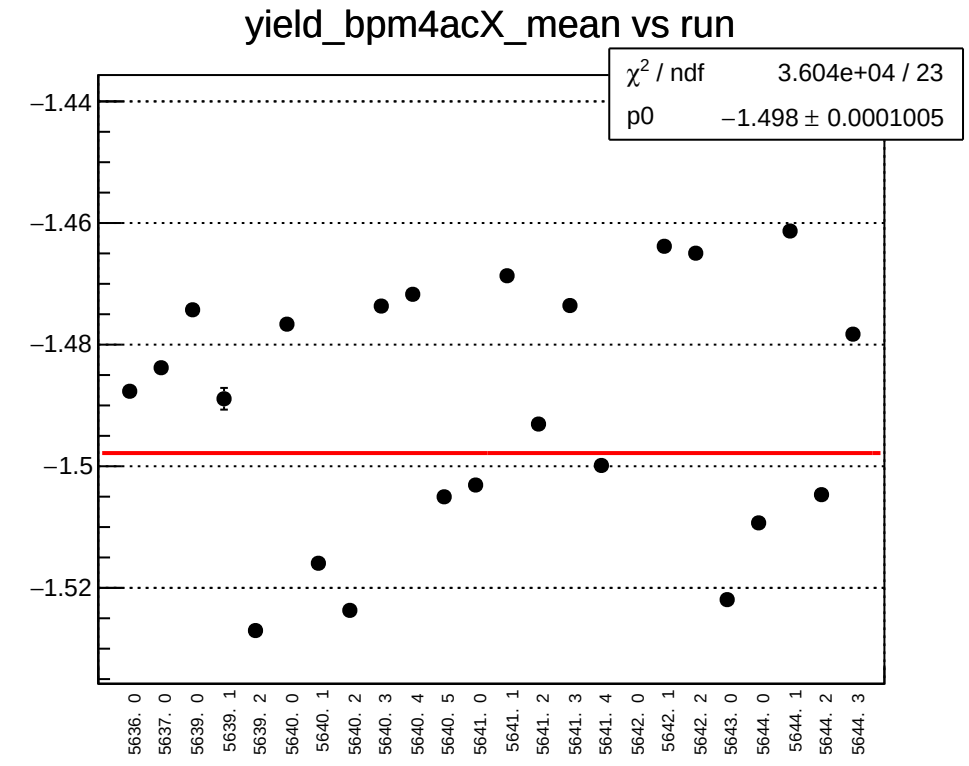
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

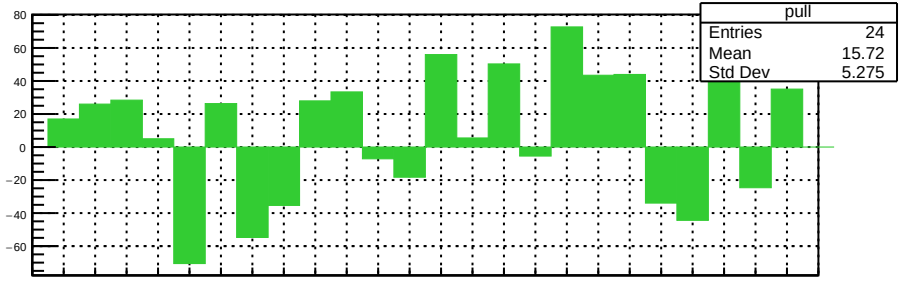

yield_bpm4eY_mean vs run
χ² / ndf 6.24e+04 / 23
p0 1.254 ± 2.64e−05
1.275
1.27
1.265
1.26
1.255
1.25
1.245
1.24
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

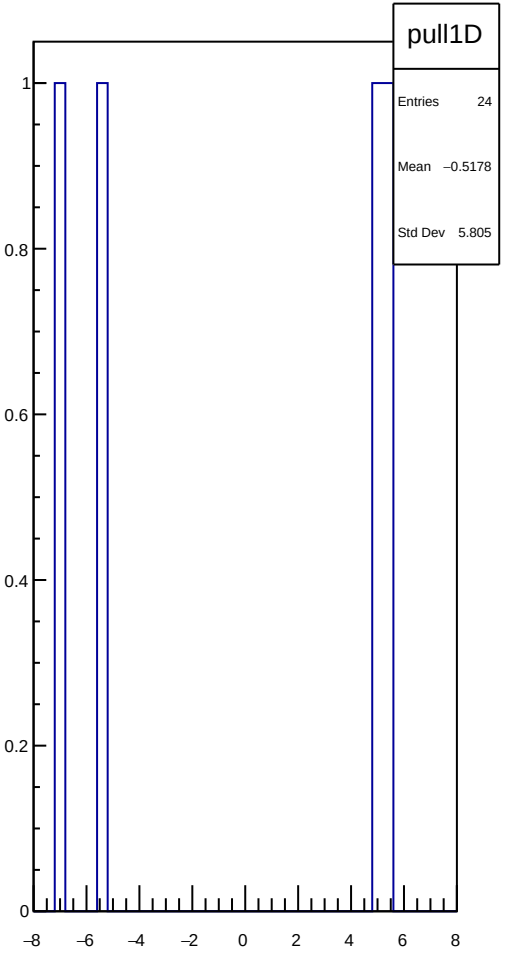

pull
Entries 24
Mean −8.64
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

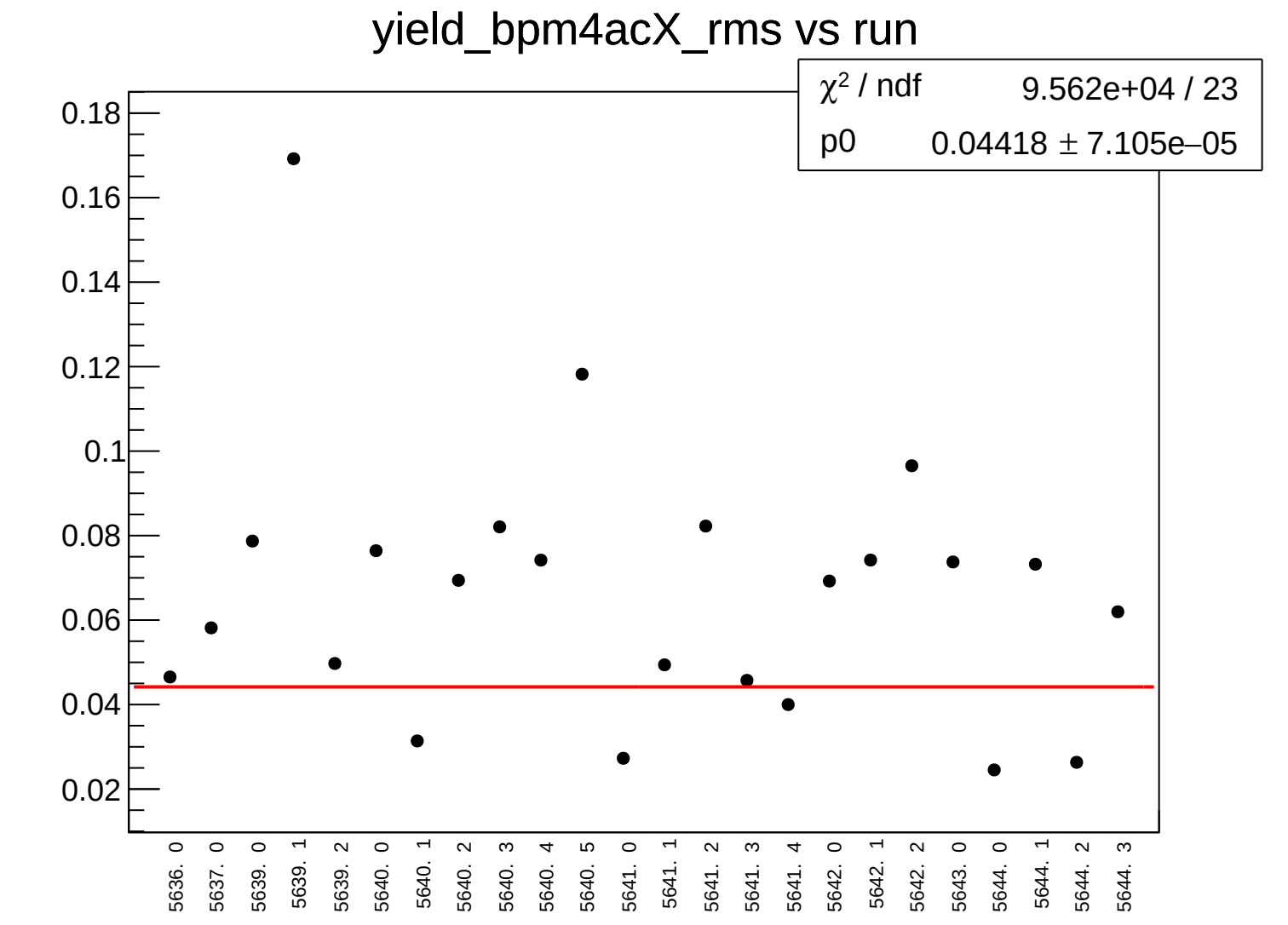

pull1D
Entries 24
Mean −6.431
Std Dev 0.5404
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

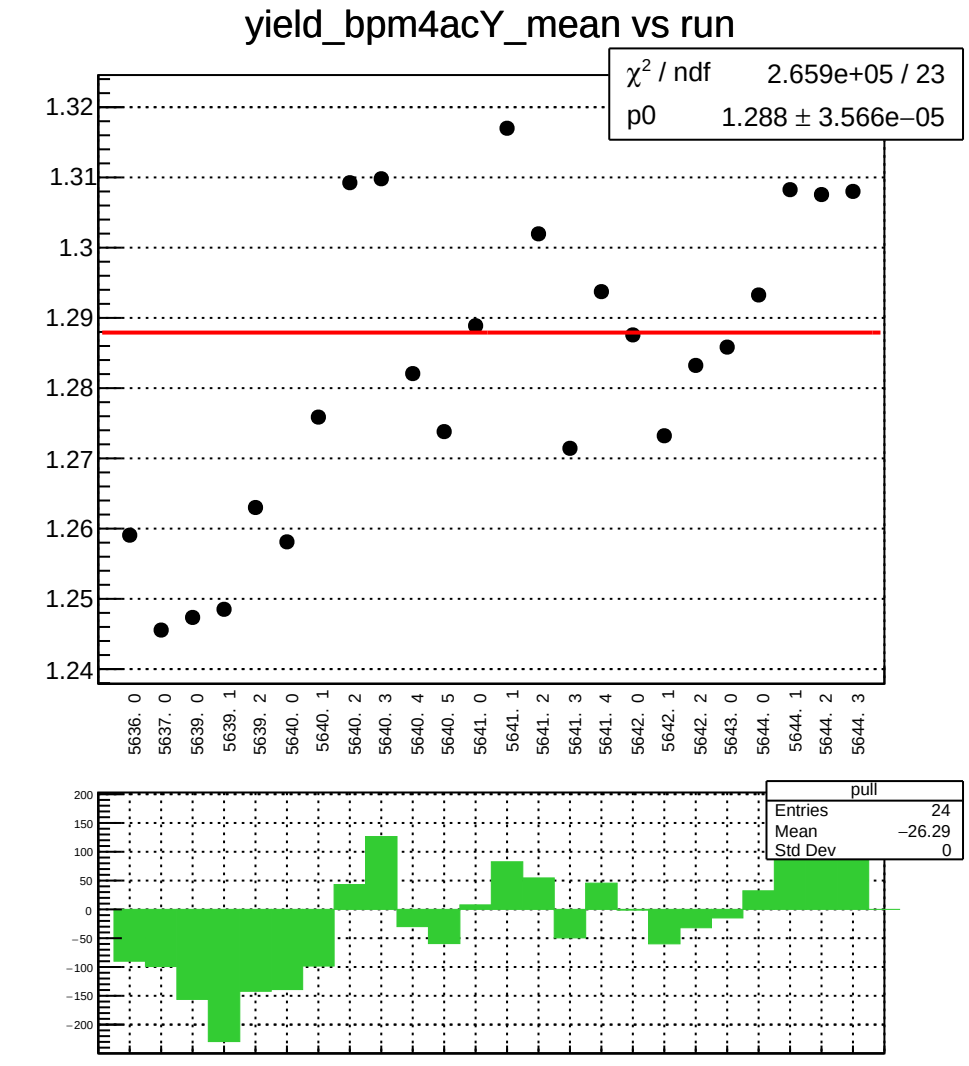

yield_bpm4eY_rms vs run
χ² / ndf 4.758e+04 / 23
p0 0.01231 ± 1.867e–05
0.035
0.03
0.025
0.02
0.015
0.01
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

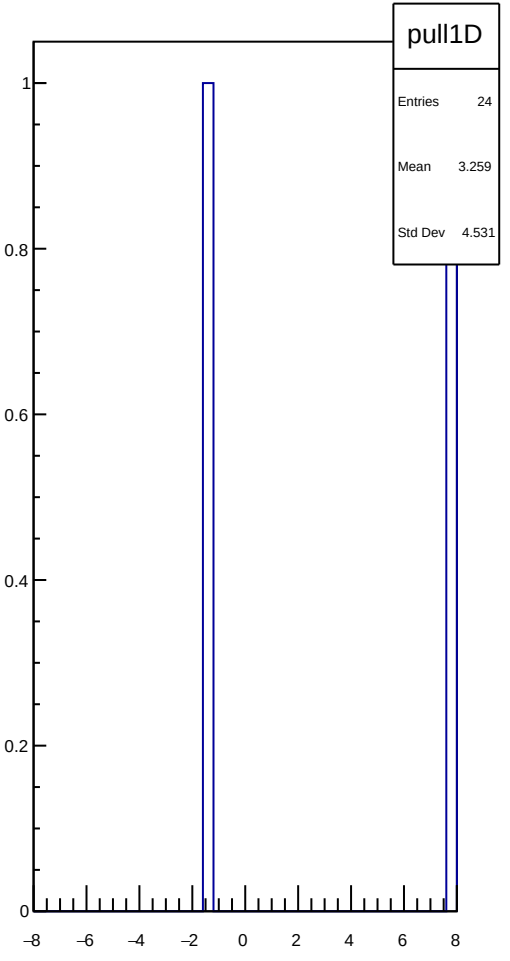

yield_bpm4acX_mean vs run
χ² / ndf 3.604e+04 / 23
p0 −1.498 ± 0.0001005
−1.44
−1.46
−1.48
−1.5
−1.52
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

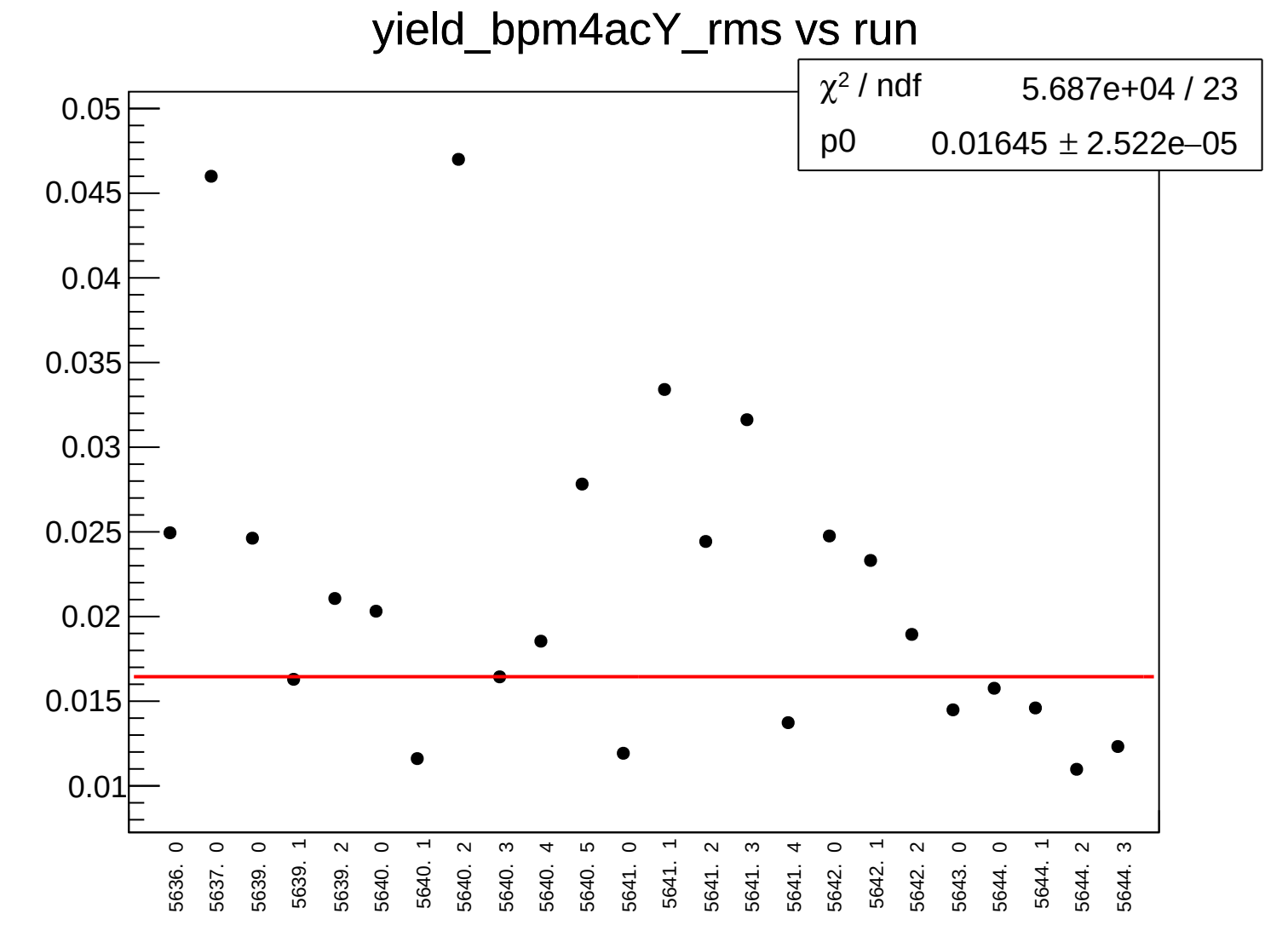

pull
Entries 24
Mean 15.72
Std Dev 5.275
80
60
40
20
0
−20
−40
−60

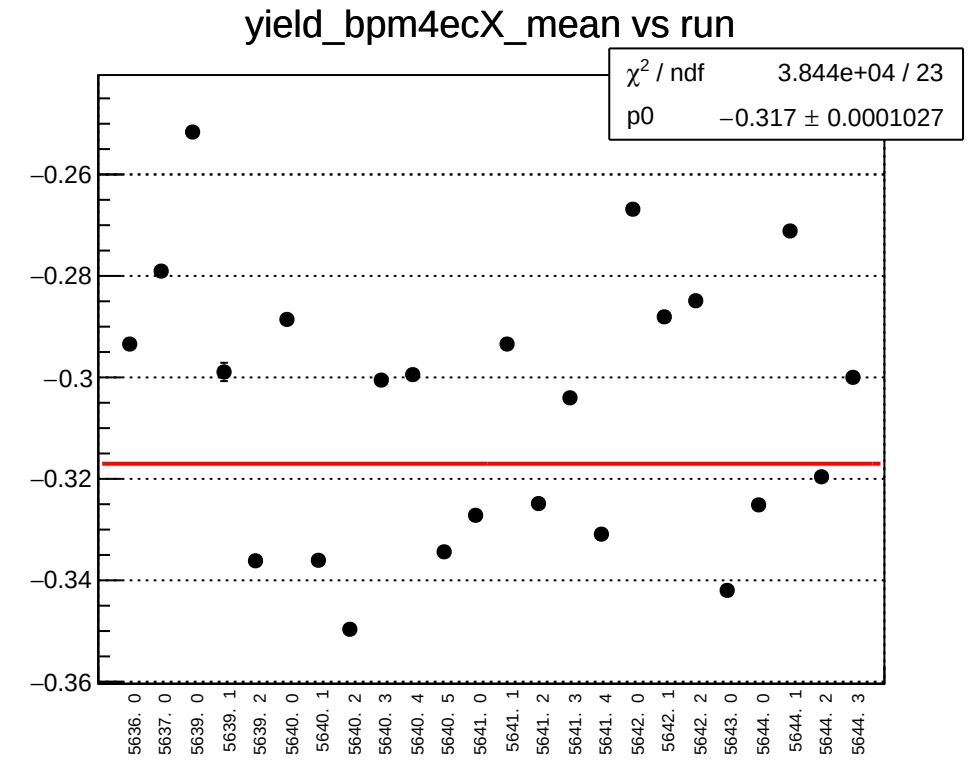

pull1D
Entries 24
Mean −0.5178
Std Dev 5.805
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

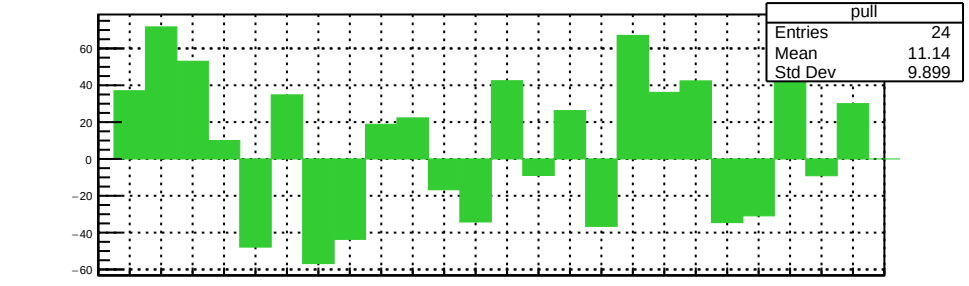

yield_bpm4acX_rms vs run
χ² / ndf 9.562e+04 / 23
p0 0.04418 ± 7.105e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

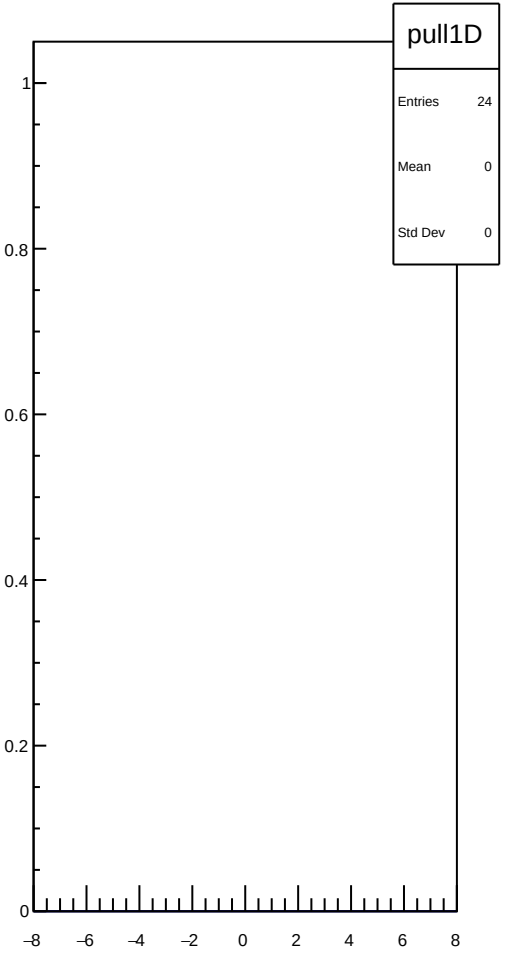

yield_bpm4acY_mean vs run
χ² / ndf 2.659e+05 / 23
p0 1.288 ± 3.566e−05
1.32
1.31
1.3
1.29
1.28
1.27
1.26
1.25
1.24
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −26.29
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

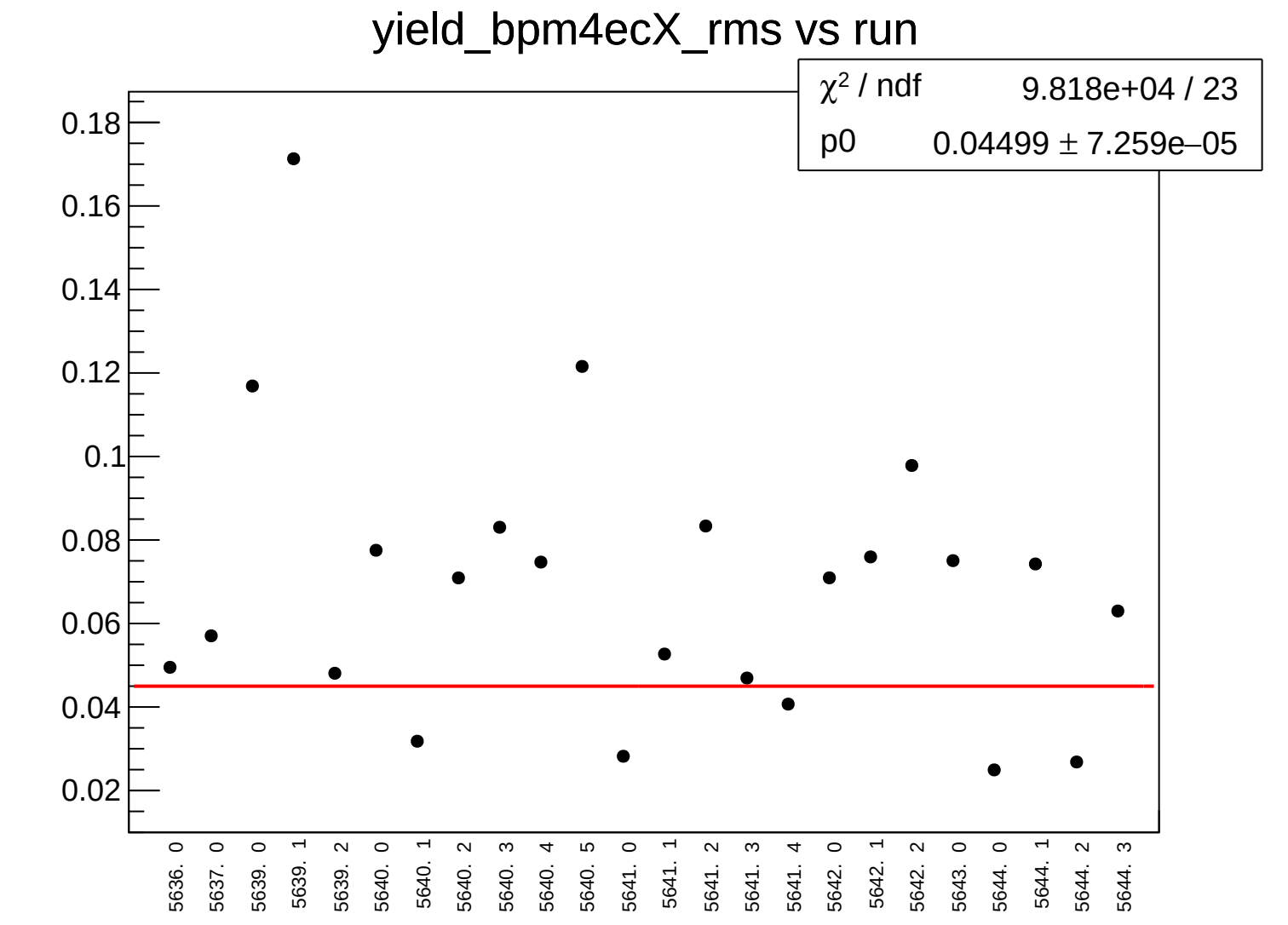

pull1D
Entries 24
Mean 3.259
Std Dev 4.531
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

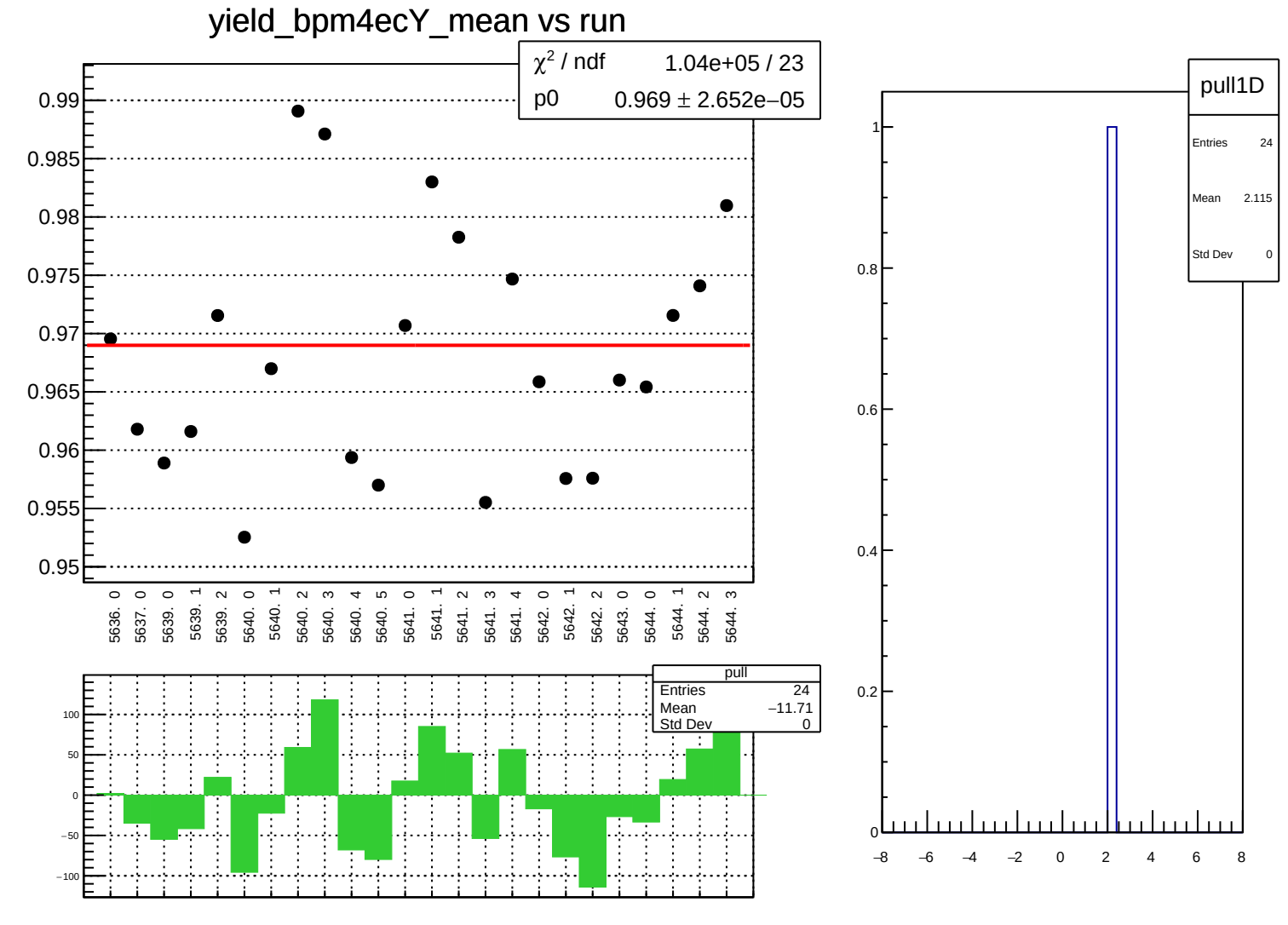

yield_bpm4acY_rms vs run
χ² / ndf 5.687e+04 / 23
p0 0.01645 ± 2.522e–05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

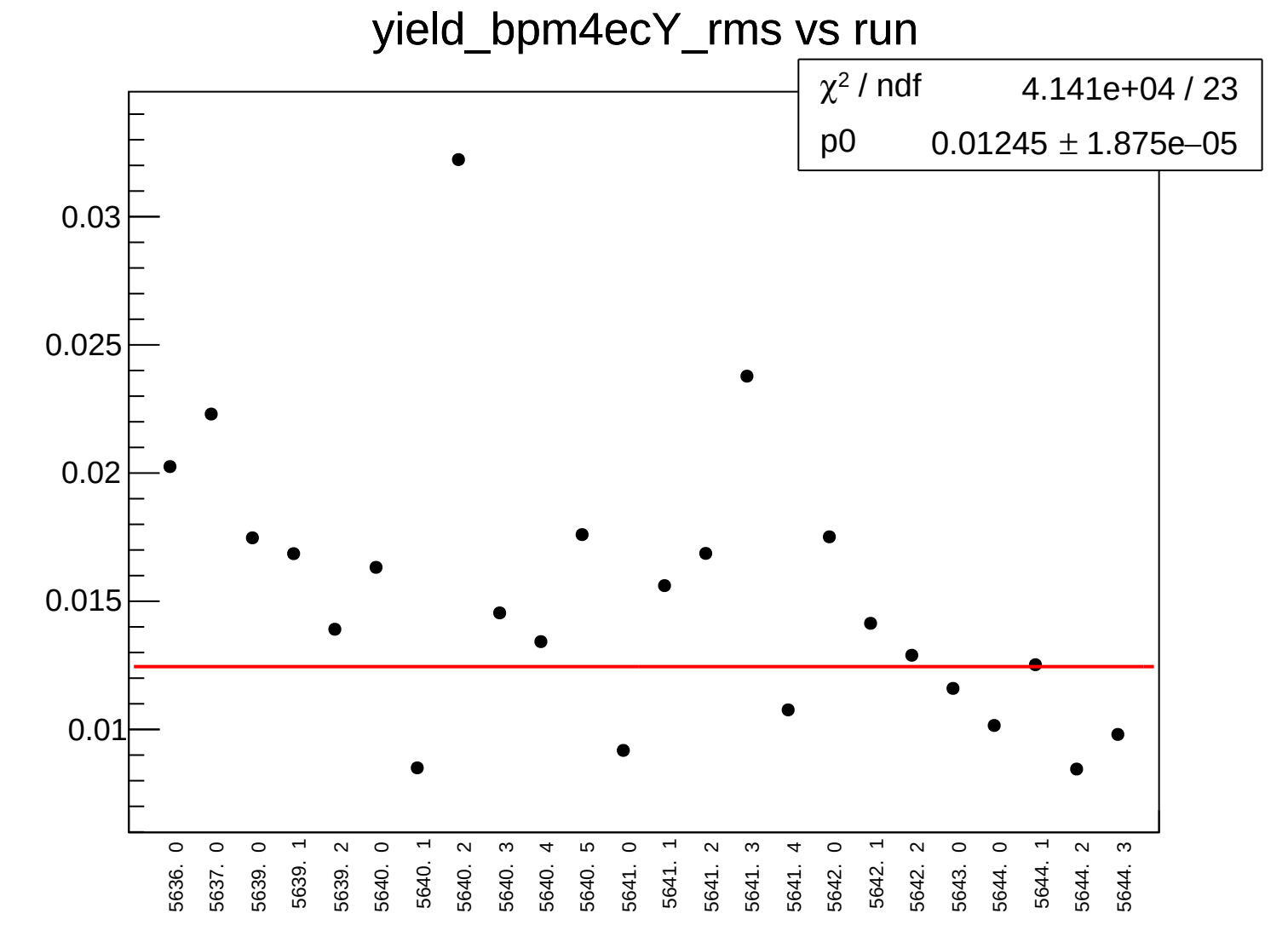

yield_bpm4ecX_mean vs run
χ² / ndf 3.844e+04 / 23
p0 −0.317 ± 0.0001027
−0.26
−0.28
−0.3
−0.32
−0.34
−0.36
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

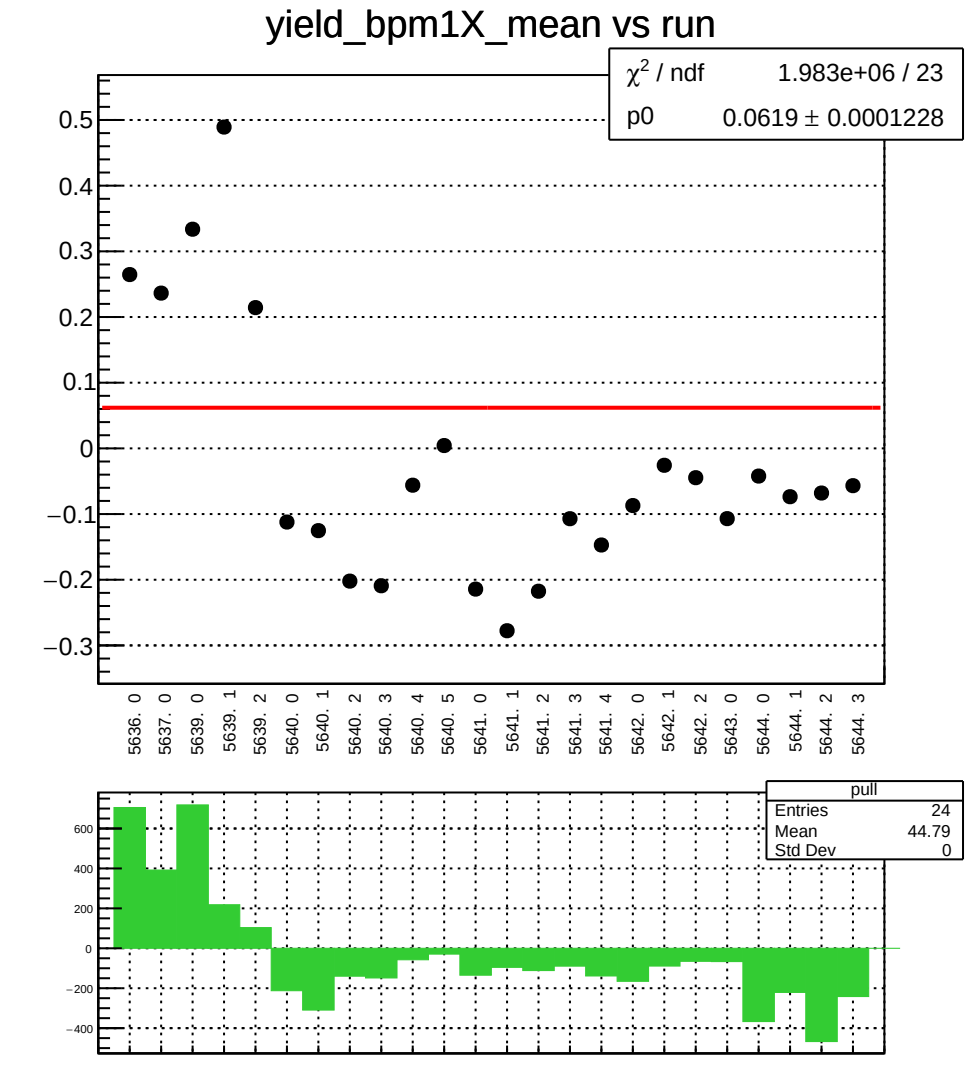

pull
Entries 24
Mean 11.14
Std Dev 9.899
60
40
20
0
−20
−40
−60

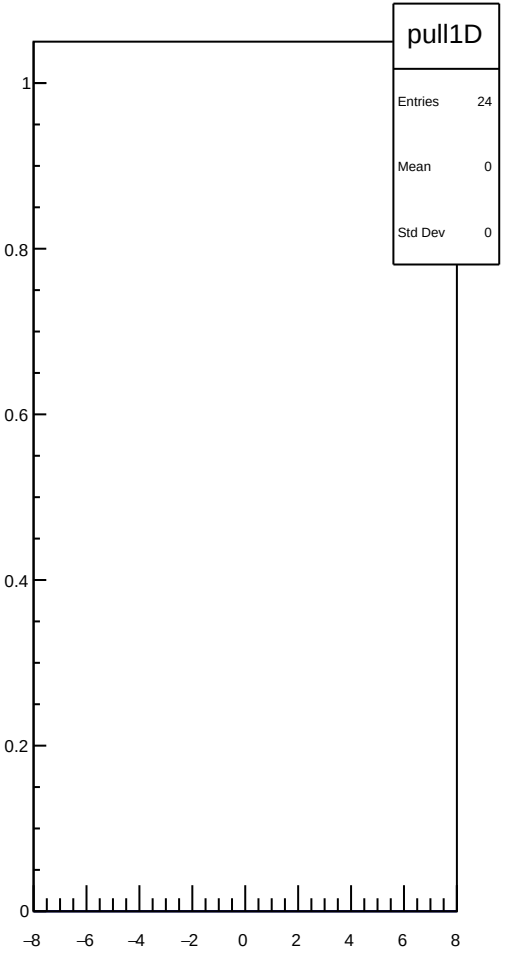

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

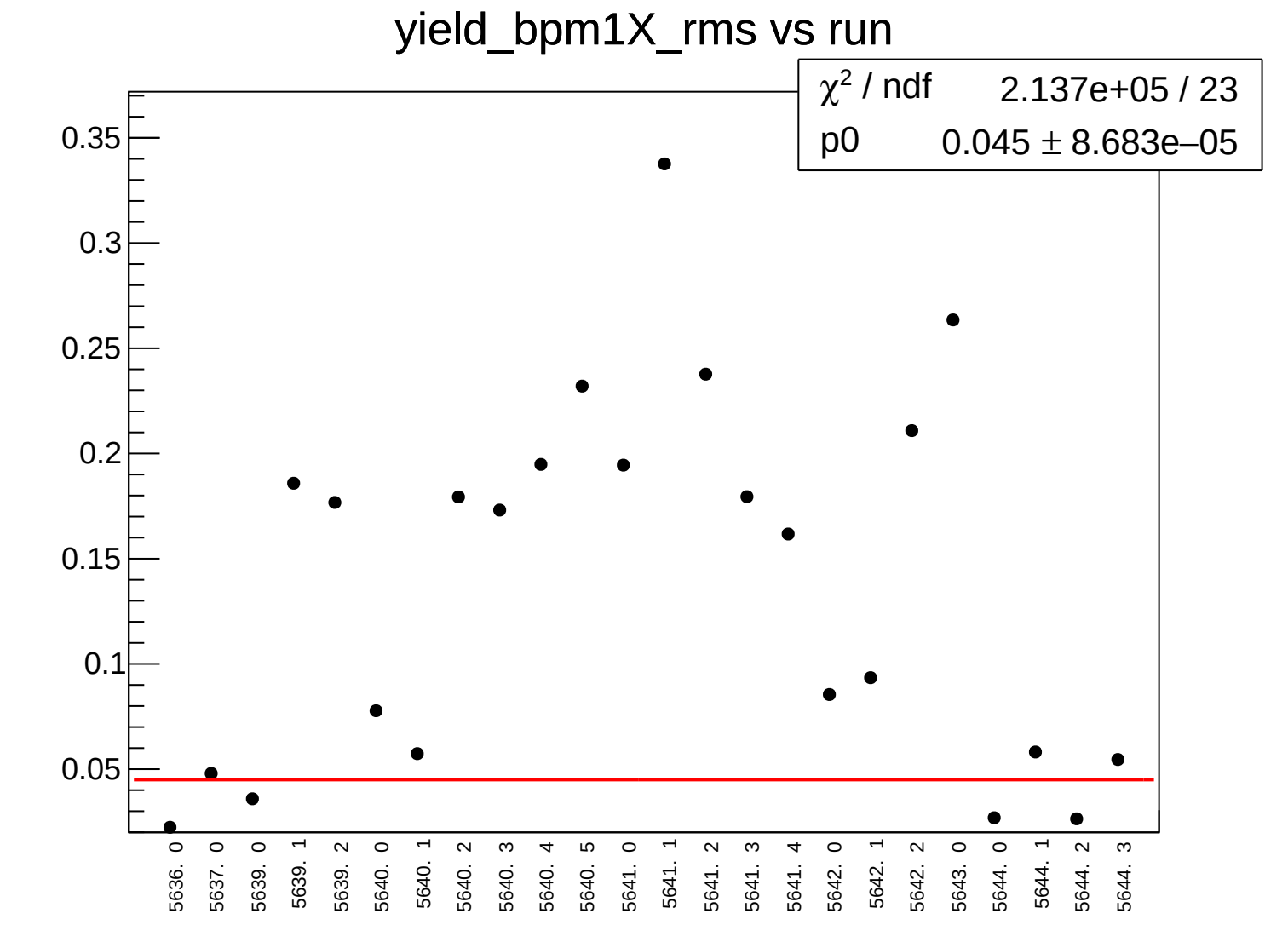

yield_bpm4ecX_rms vs run
χ² / ndf 9.818e+04 / 23
p0 0.04499 ± 7.259e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

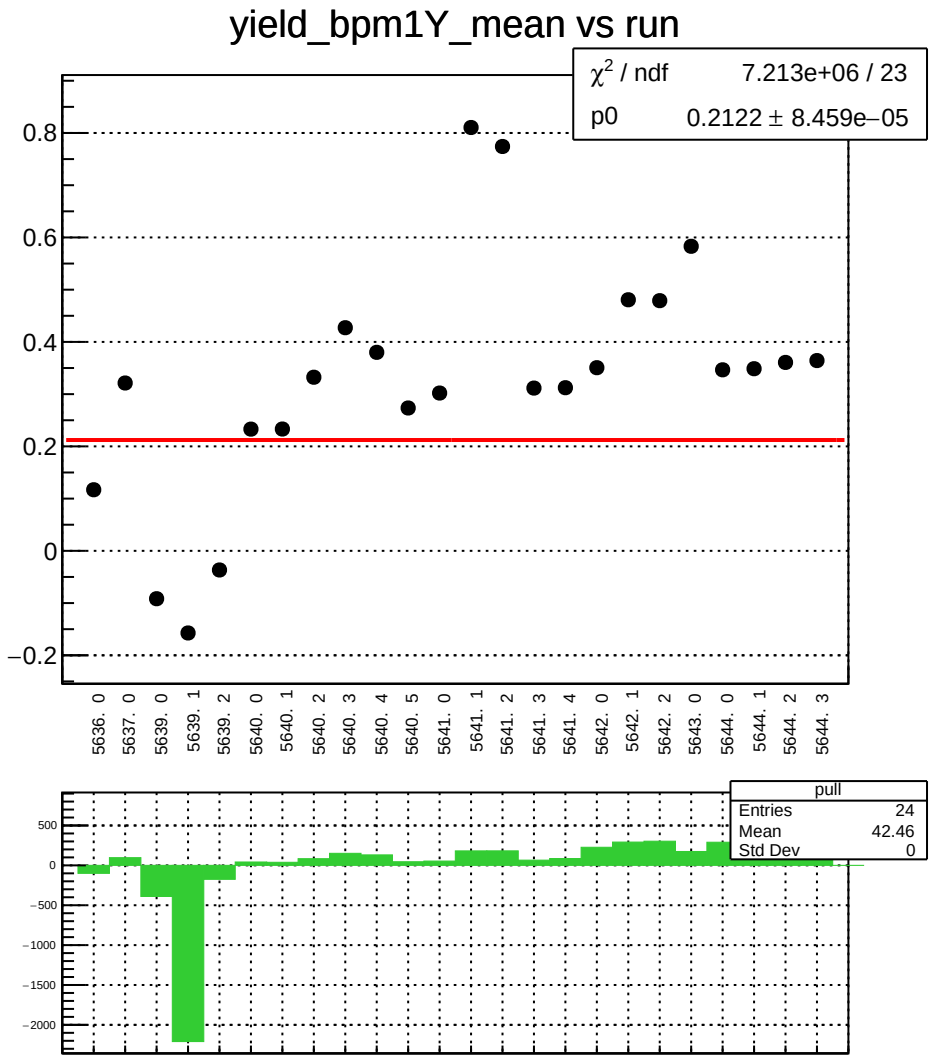

yield_bpm4ecY_mean vs run
χ² / ndf 1.04e+05 / 23
p0 0.969 ± 2.652e−05
0.99
0.985
0.98
0.975
0.97
0.965
0.96
0.955
0.95
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −11.71
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 24
Mean 2.115
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

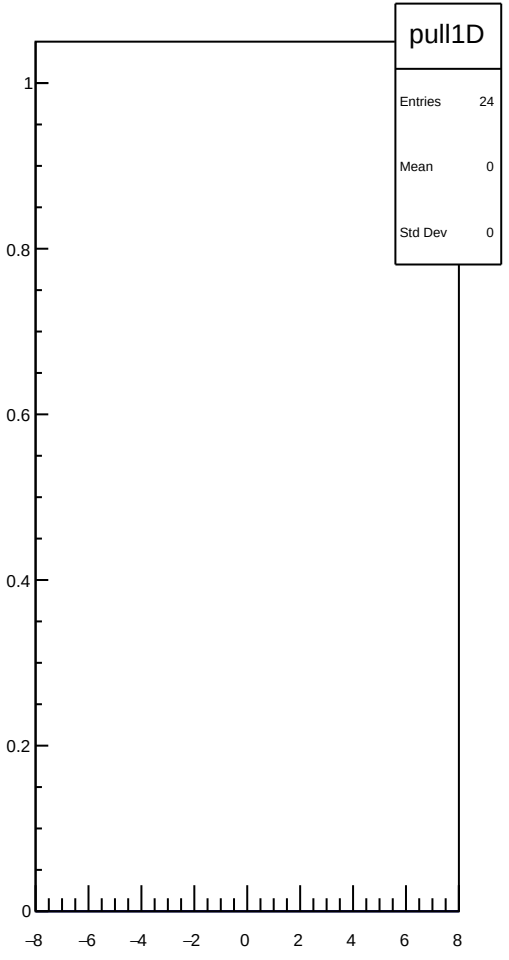

yield_bpm4ecY_rms vs run
χ² / ndf 4.141e+04 / 23
p0 0.01245 ± 1.875e−05
0.03
0.025
0.02
0.015
0.01
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

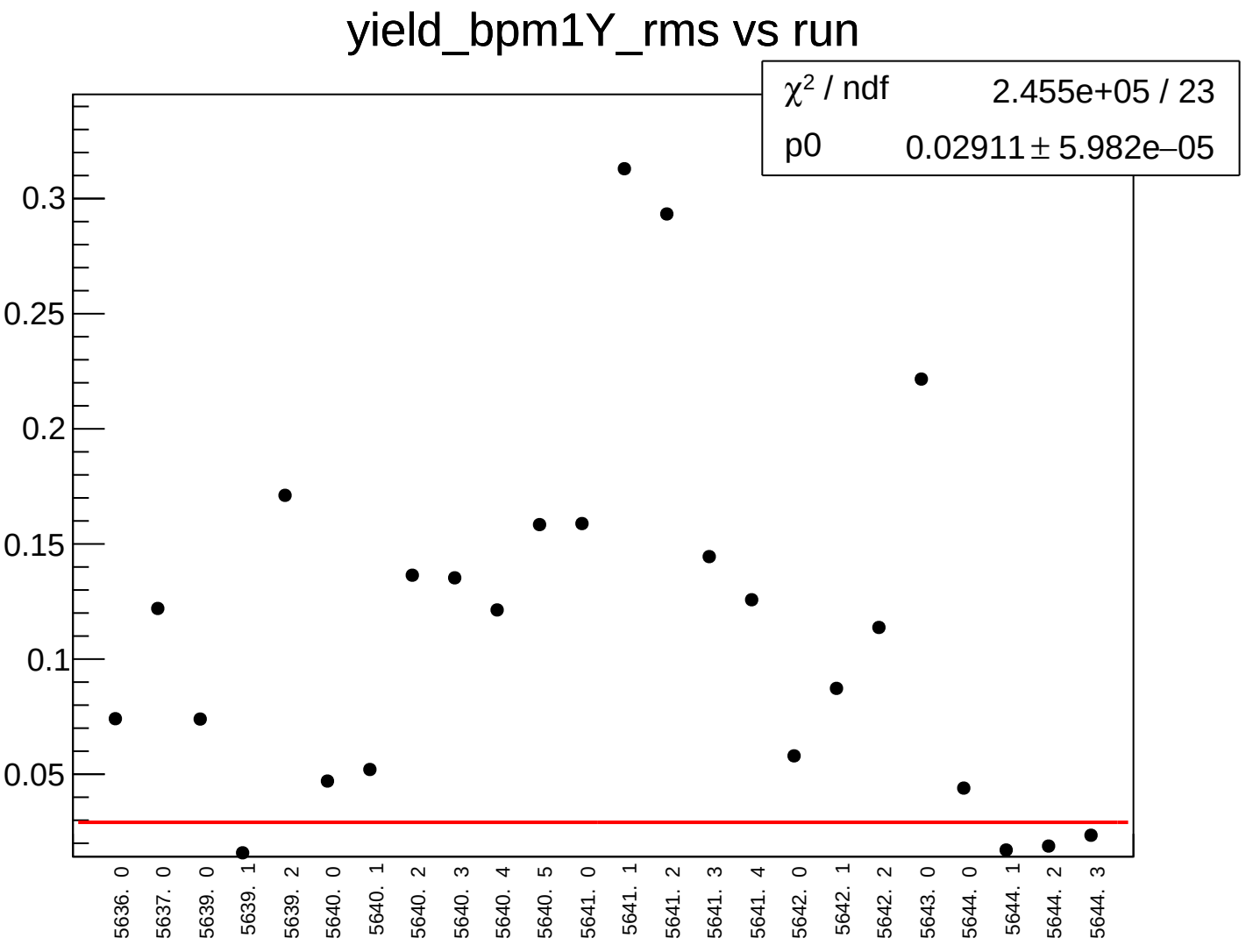

yield_bpm1X_mean vs run
χ² / ndf 1.983e+06 / 23
p0 0.0619 ± 0.0001228
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 44.79
Std Dev 0
600
400
200
0
−200
−400

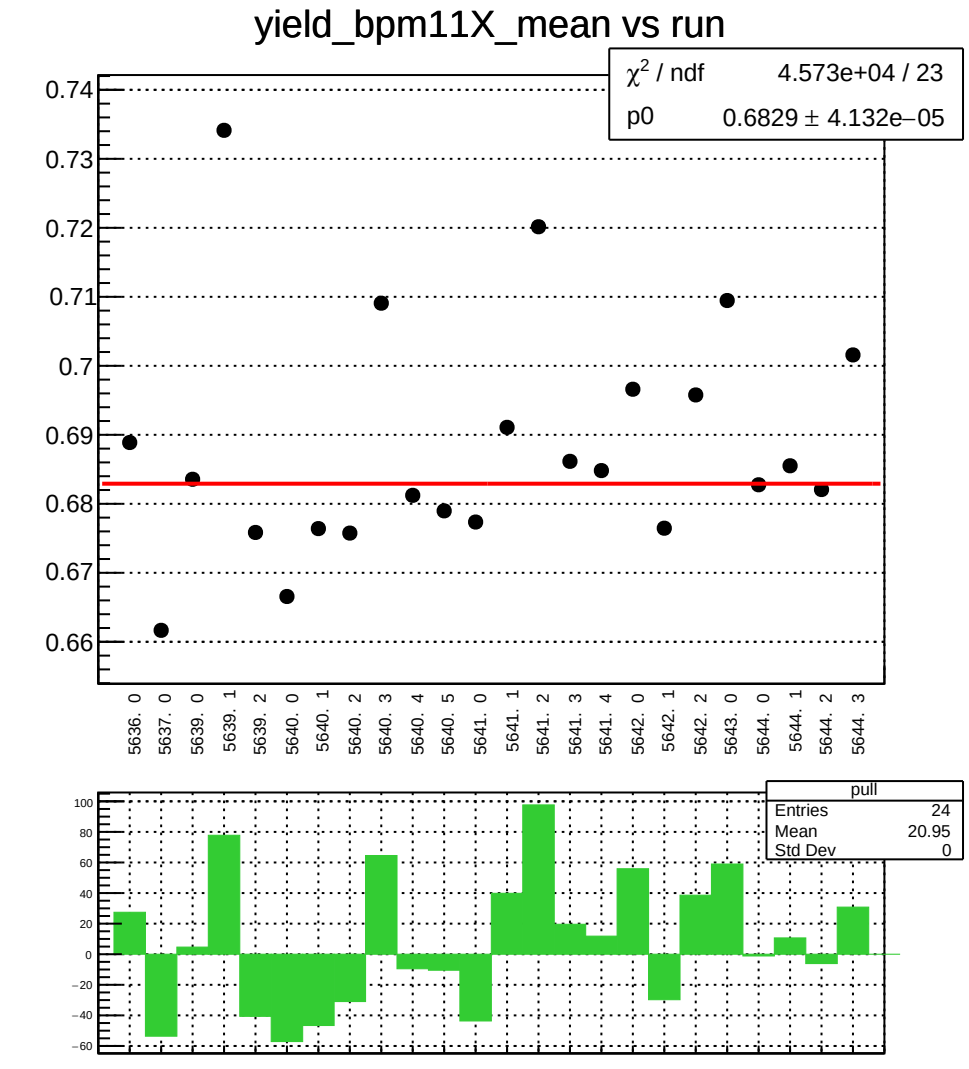

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

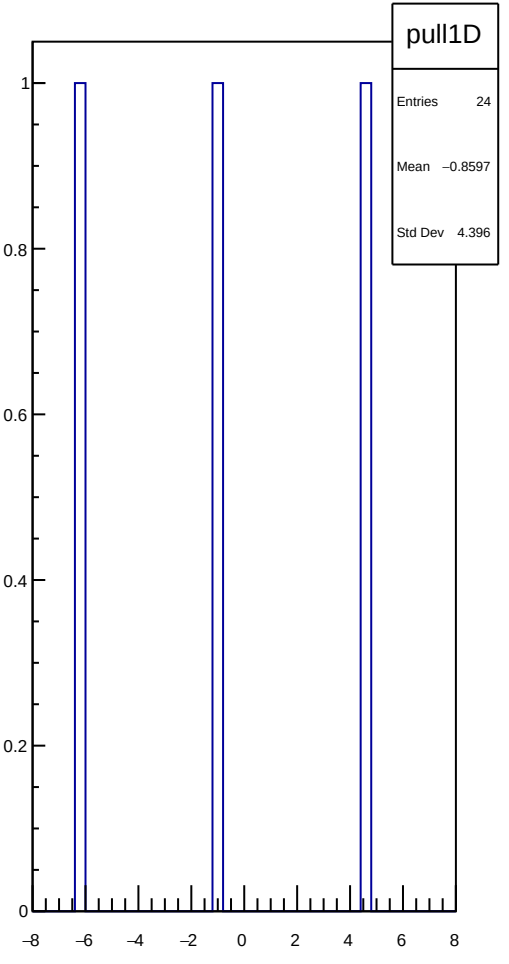

yield_bpm1X_rms vs run
χ² / ndf 2.137e+05 / 23
p0 0.045 ± 8.683e–05
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

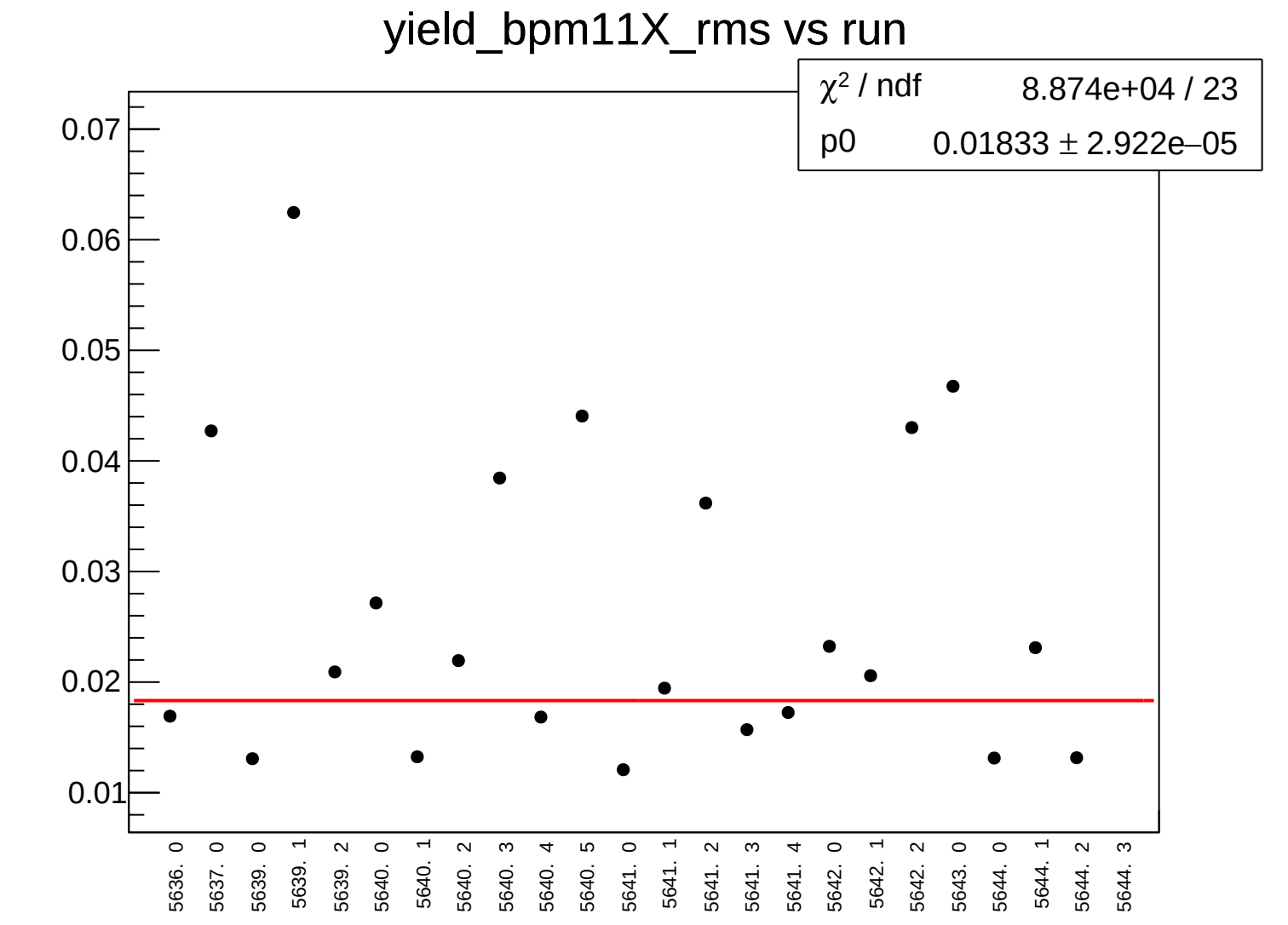

yield_bpm1Y_mean vs run
χ² / ndf 7.213e+06 / 23
p0 0.2122 ± 8.459e−05
0.8
0.6
0.4
0.2
0
−0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 42.46
Std Dev 0
500
0
−500
−1000
−1500
−2000

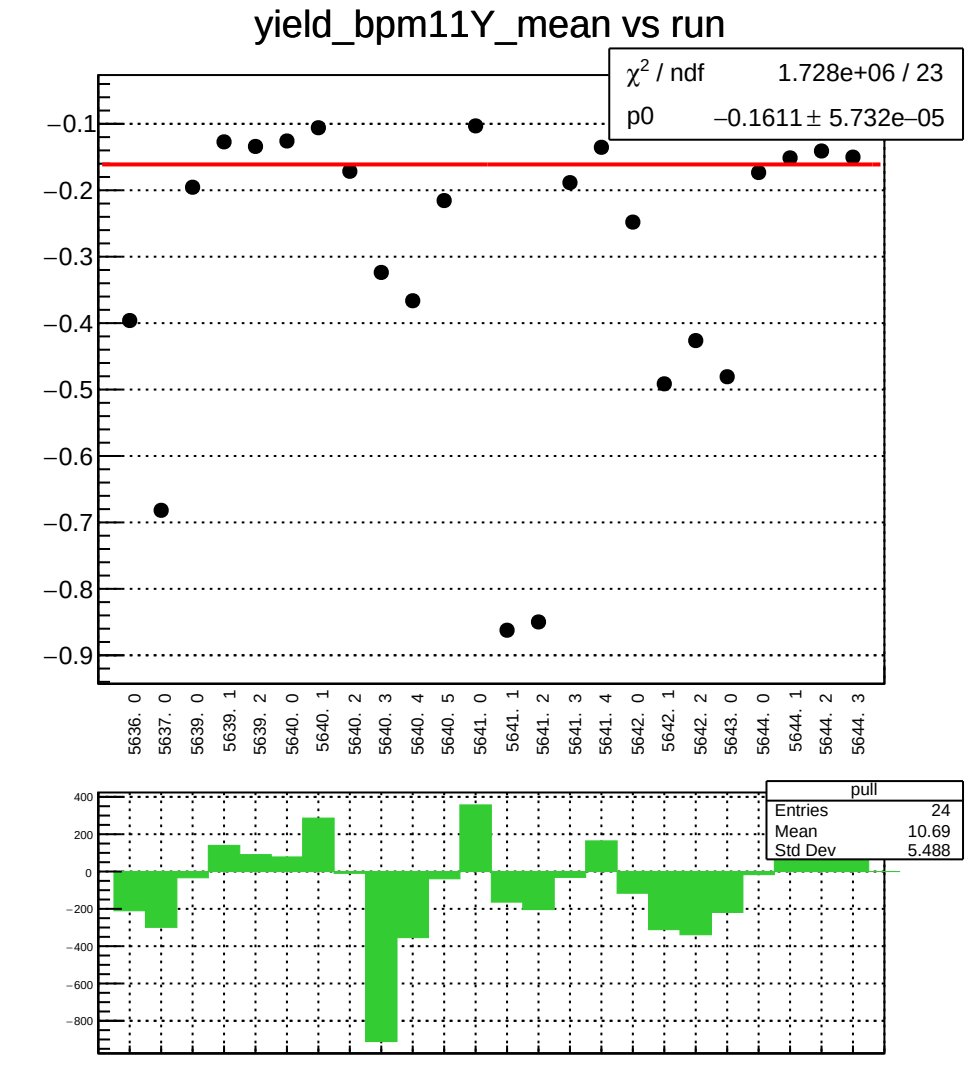

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

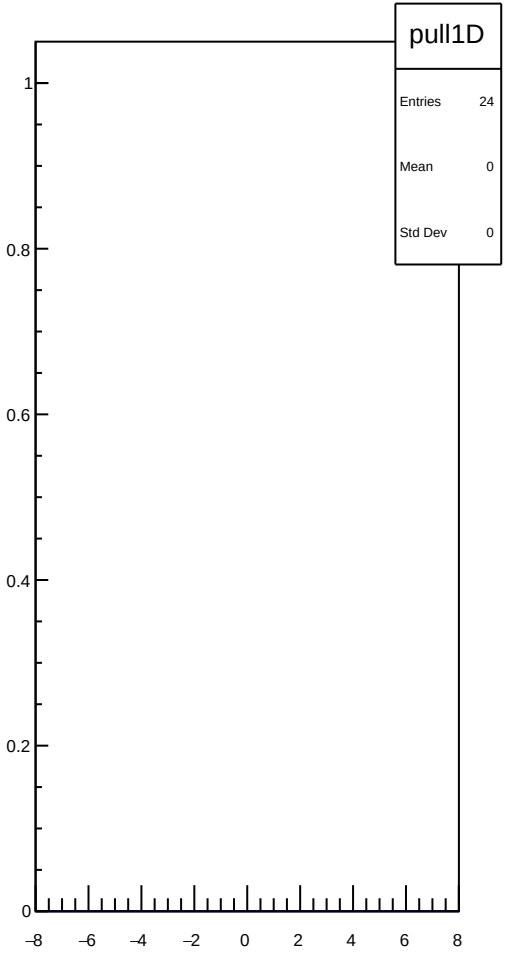

yield_bpm1Y_rms vs run
χ² / ndf 2.455e+05 / 23
p0 0.02911 ± 5.982e–05
0.3
0.25
0.2
0.15
0.1
0.05
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

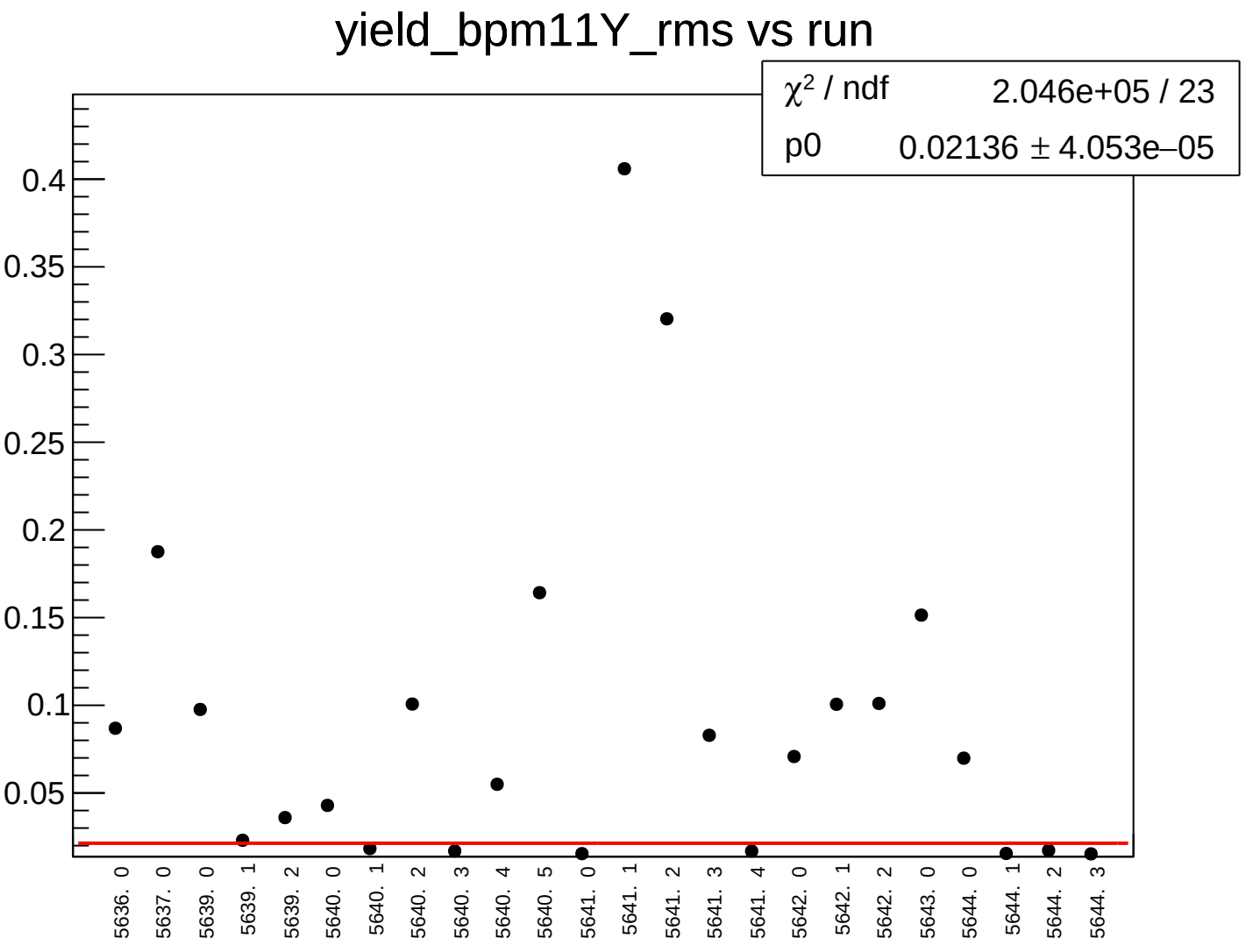

yield_bpm11X_mean vs run
χ² / ndf 4.573e+04 / 23
p0 0.6829 ± 4.132e−05
0.74
0.73
0.72
0.71
0.7
0.69
0.68
0.67
0.66
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 20.95
Std Dev 0
100
80
60
40
20
0
−20
−40
−60

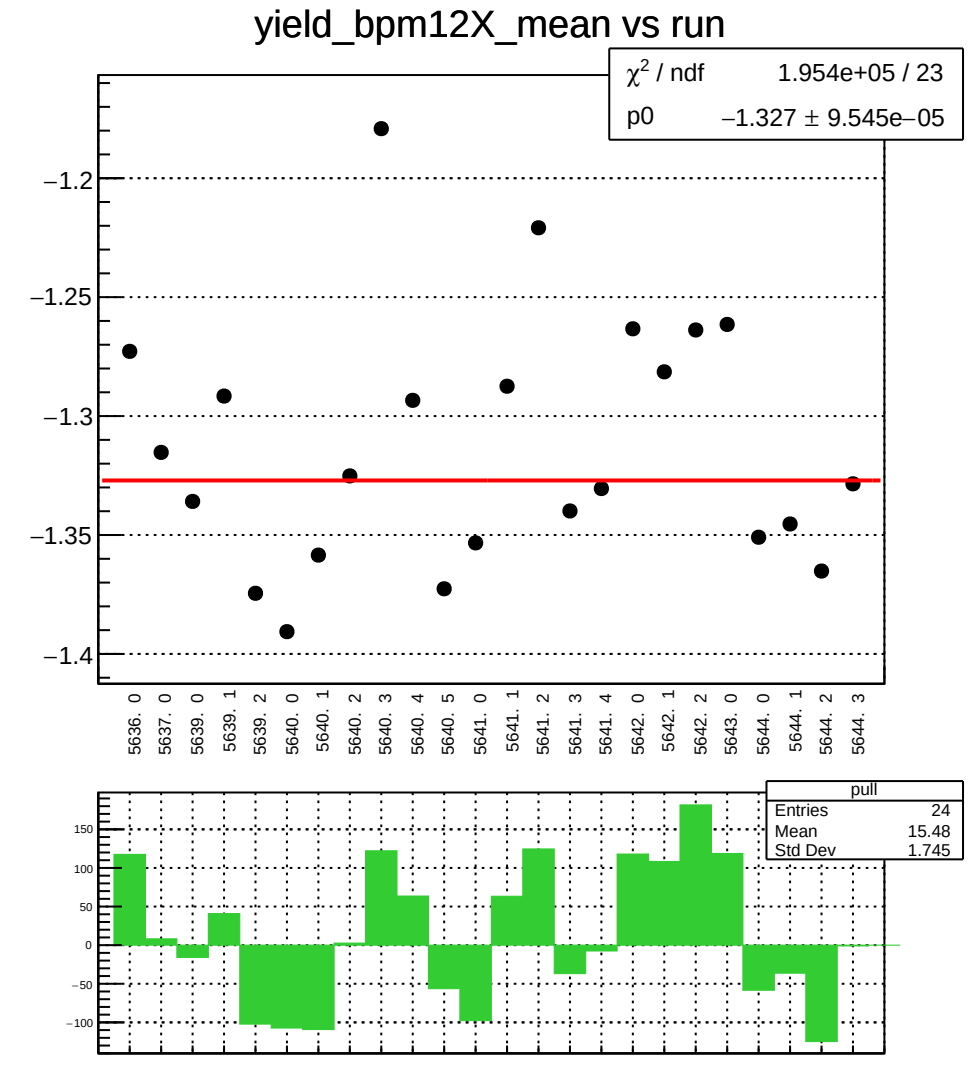

pull1D
Entries 24
Mean −0.8597
Std Dev 4.396
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

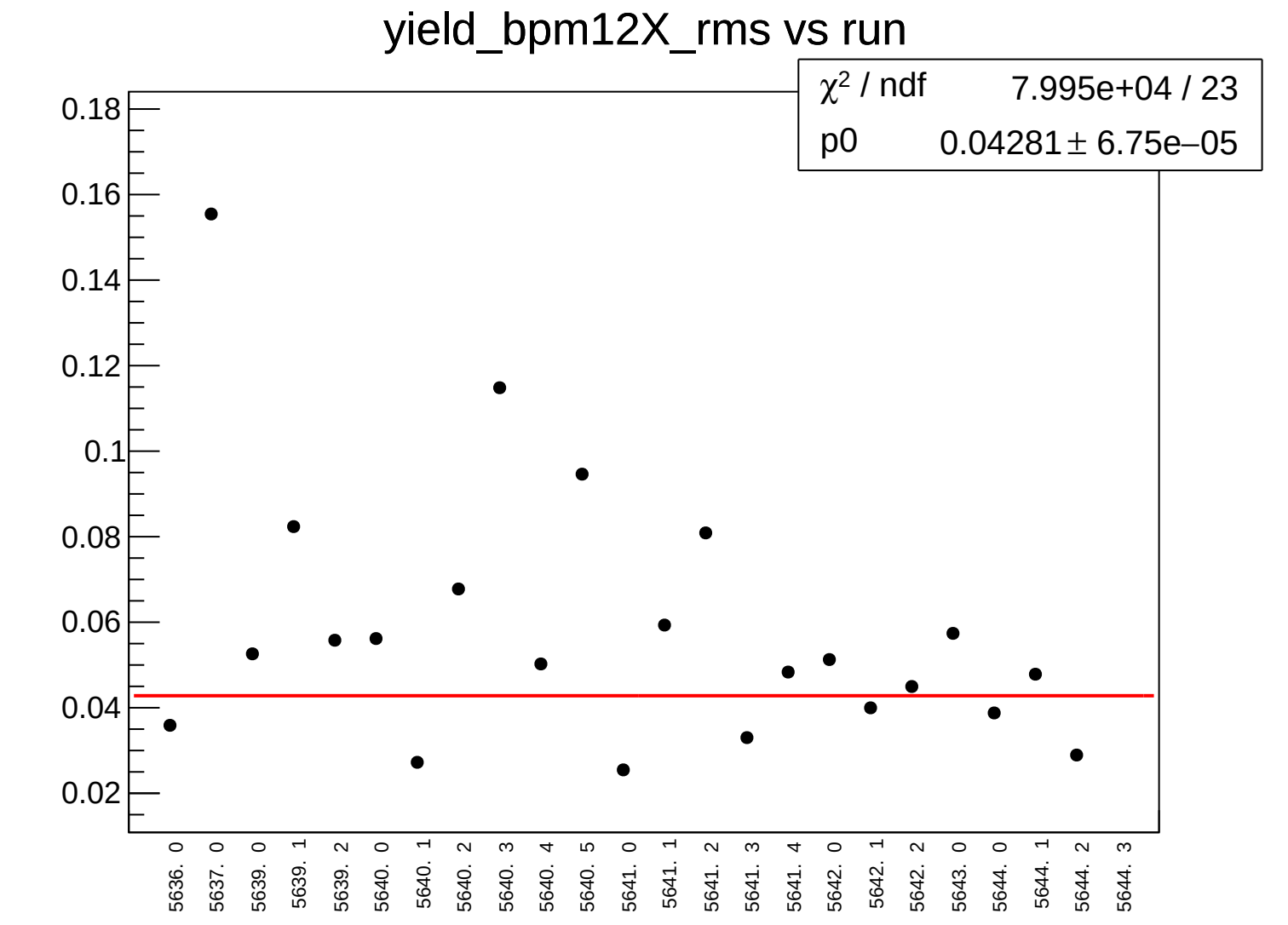

yield_bpm11X_rms vs run
χ² / ndf 8.874e+04 / 23
p0 0.01833 ± 2.922e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

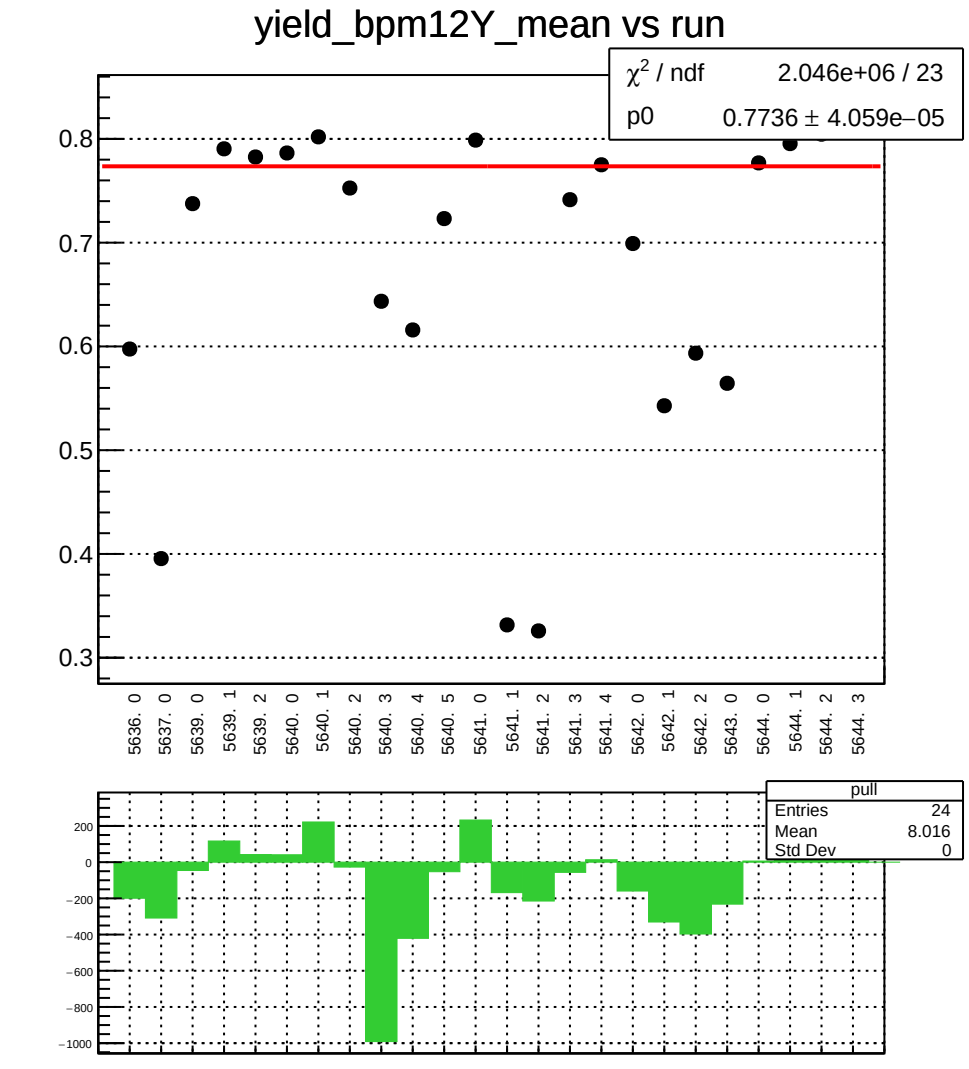

yield_bpm11Y_mean vs run
χ² / ndf 1.728e+06 / 23
p0 −0.1611 ± 5.732e−05
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
−0.9
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 10.69
Std Dev 5.488
400
200
0
−200
−400
−600
−800

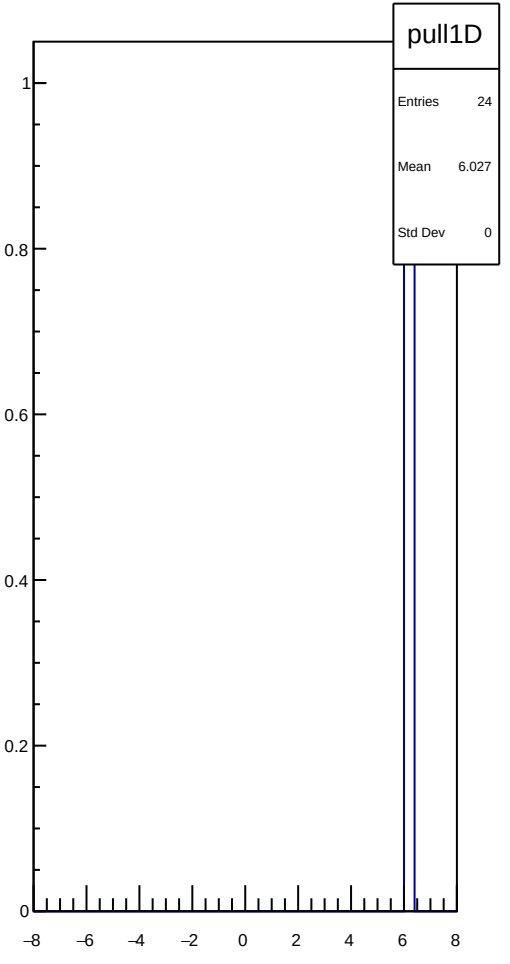

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

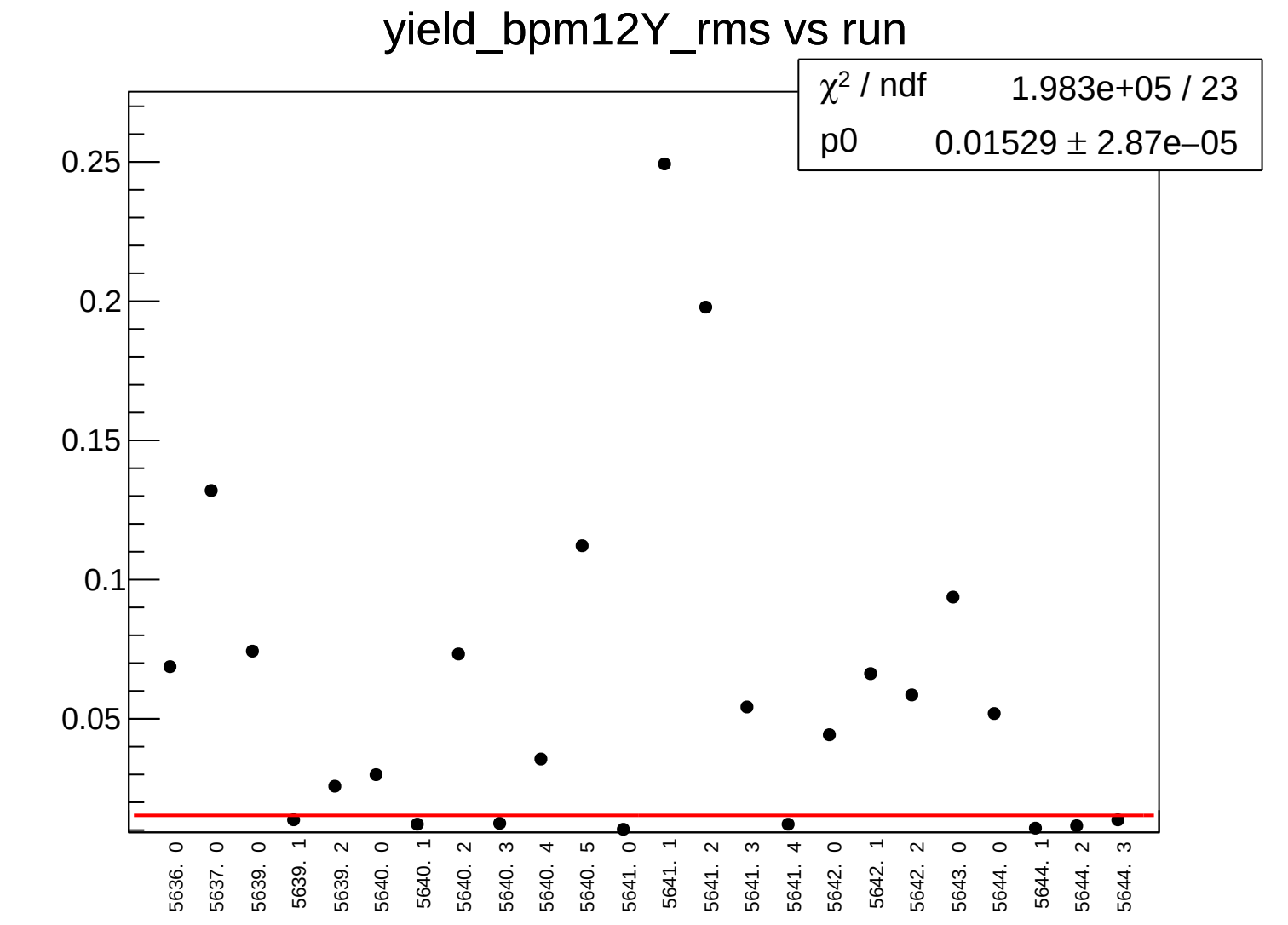

yield_bpm11Y_rms vs run
χ² / ndf 2.046e+05 / 23
p0 0.02136 ± 4.053e–05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

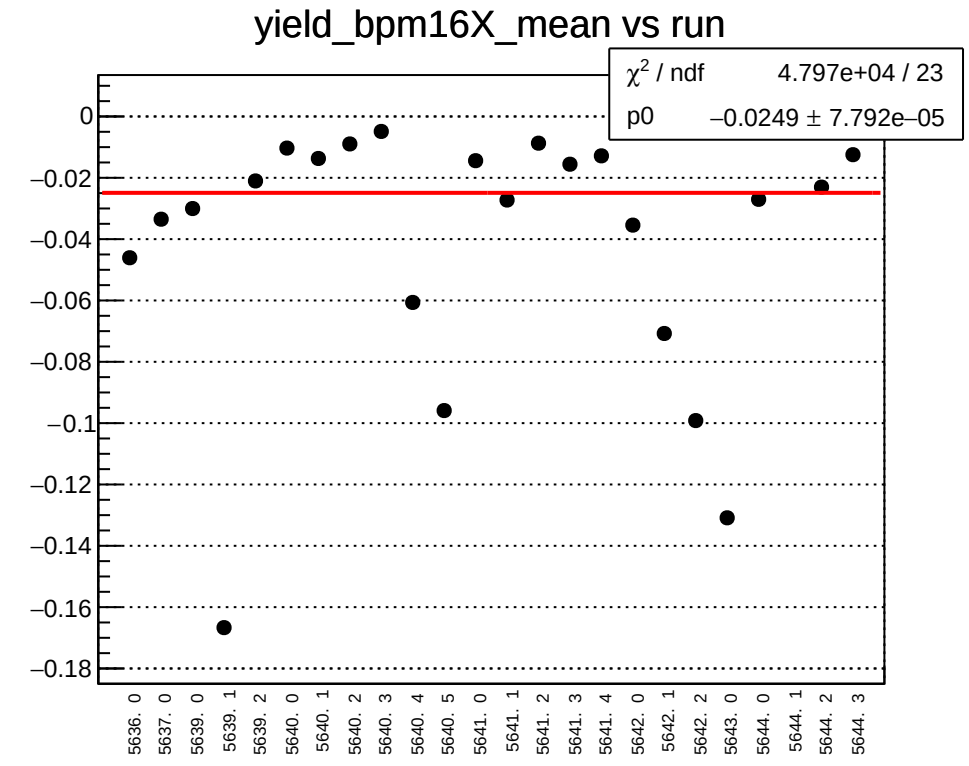

yield_bpm12X_mean vs run
χ² / ndf 1.954e+05 / 23
p0 −1.327 ± 9.545e−05
−1.2
−1.25
−1.3
−1.35
−1.4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 15.48
Std Dev 1.745
150
100
50
0
−50
−100
pull1D
Entries 24
Mean −1.923
Std Dev 4.229
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

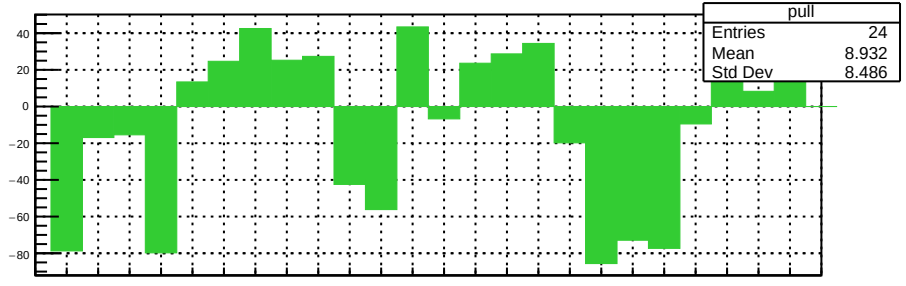

yield_bpm12X_rms vs run
χ² / ndf 7.995e+04 / 23
p0 0.04281 ± 6.75e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

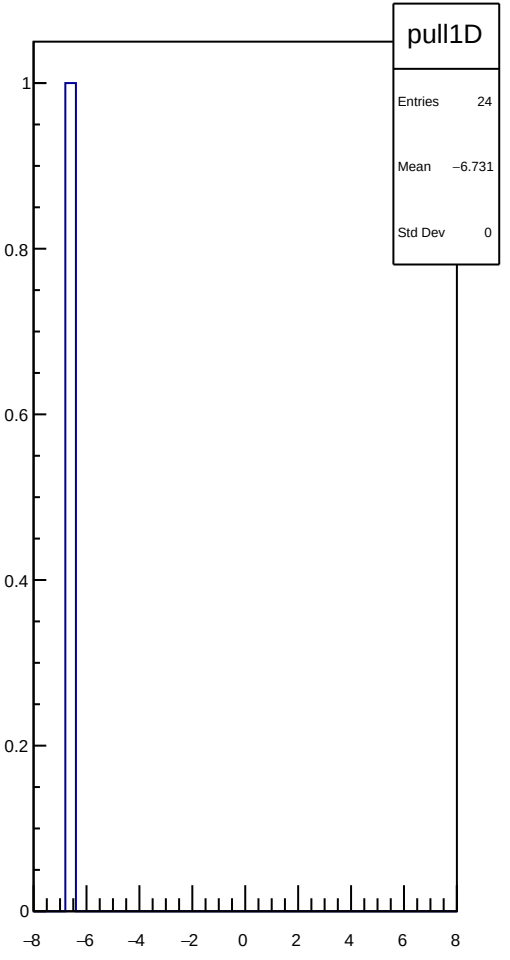

yield_bpm12Y_mean vs run
χ² / ndf 2.046e+06 / 23
p0 0.7736 ± 4.059e−05
0.8
0.7
0.6
0.5
0.4
0.3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 8.016
Std Dev 0
200
0
−200
−400
−600
−800
−1000

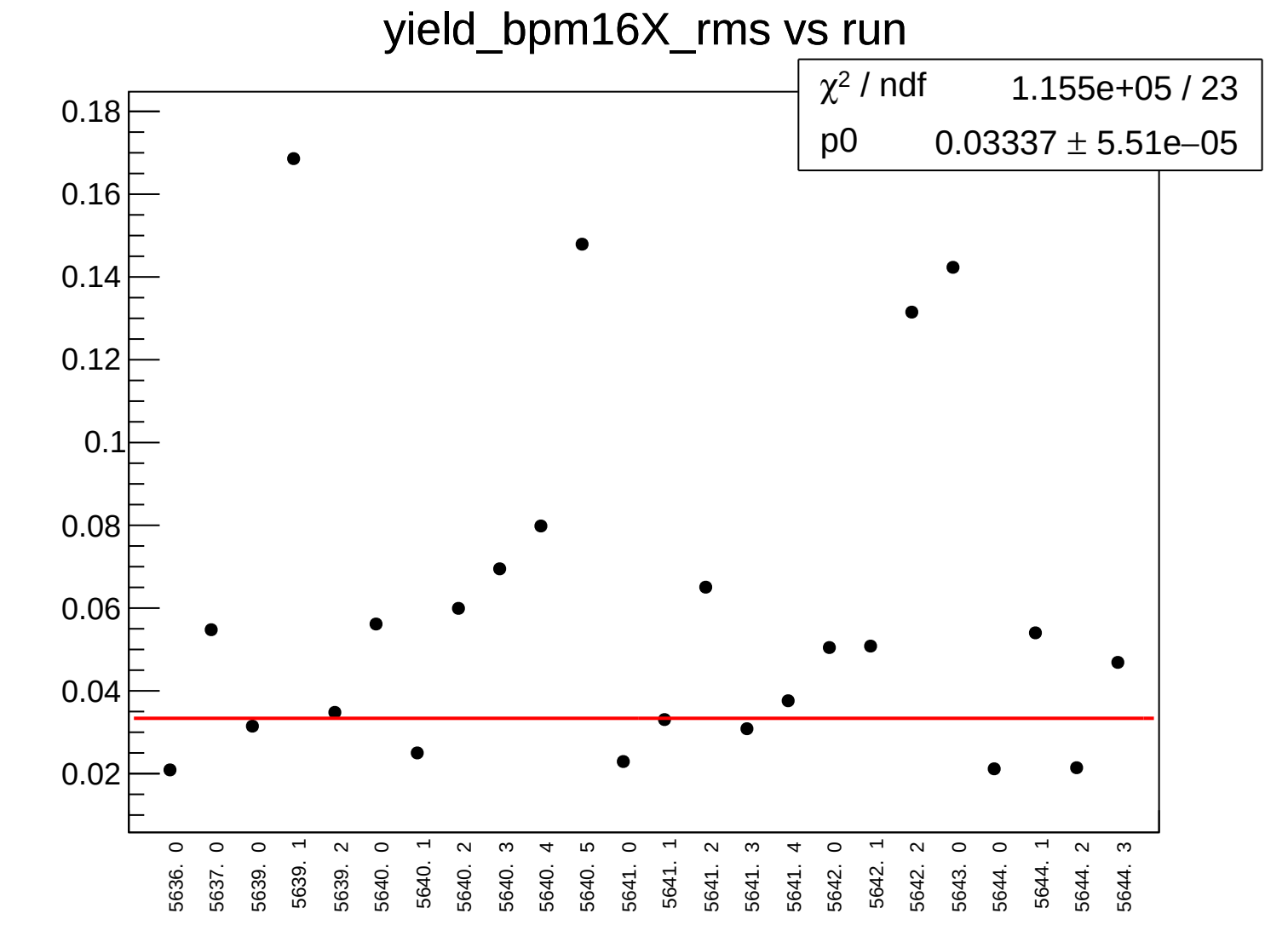

pull1D
Entries 24
Mean 6.027
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

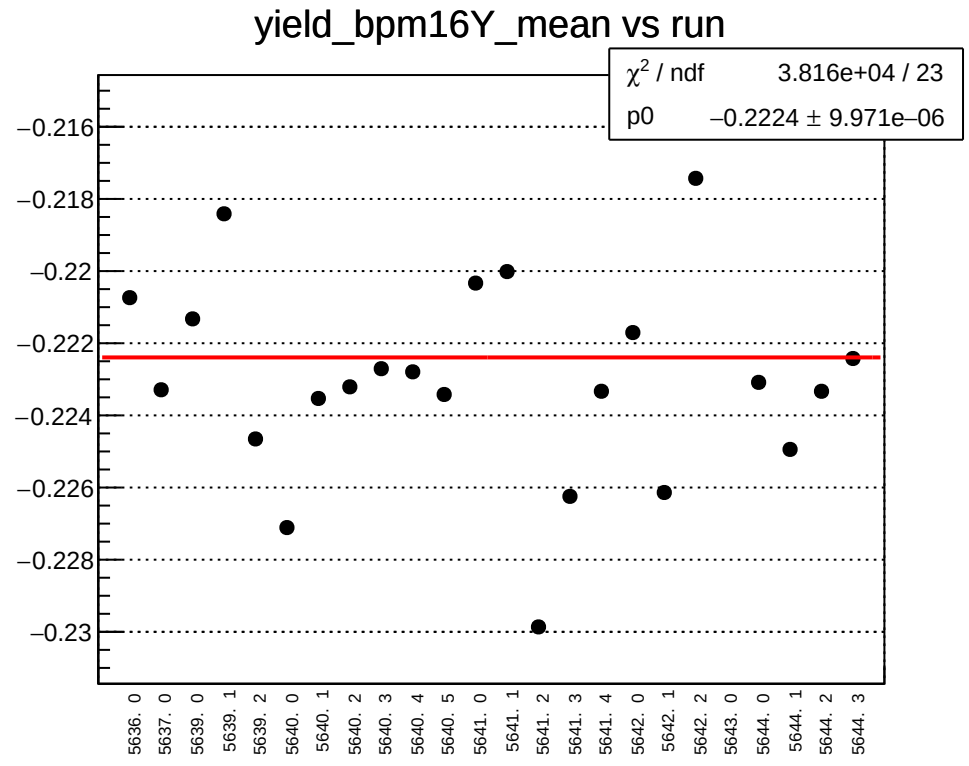

yield_bpm12Y_rms vs run
χ² / ndf 1.983e+05 / 23
p0 0.01529 ± 2.87e−05
0.25
0.2
0.15
0.1
0.05
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

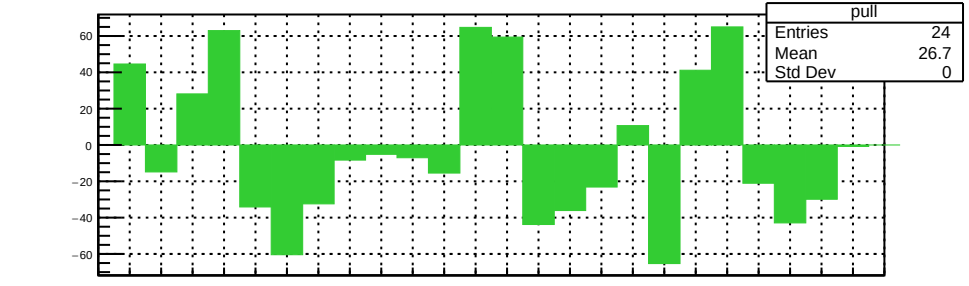

yield_bpm16X_mean vs run
χ² / ndf 4.797e+04 / 23
p0 −0.0249 ± 7.792e−05
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
−0.18
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

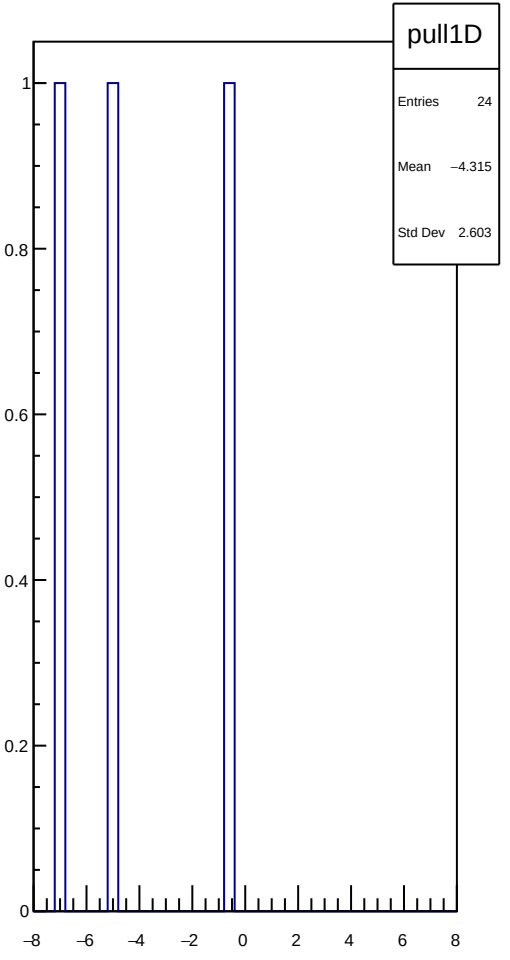

pull
Entries 24
Mean 8.932
Std Dev 8.486
40
20
0
−20
−40
−60
−80

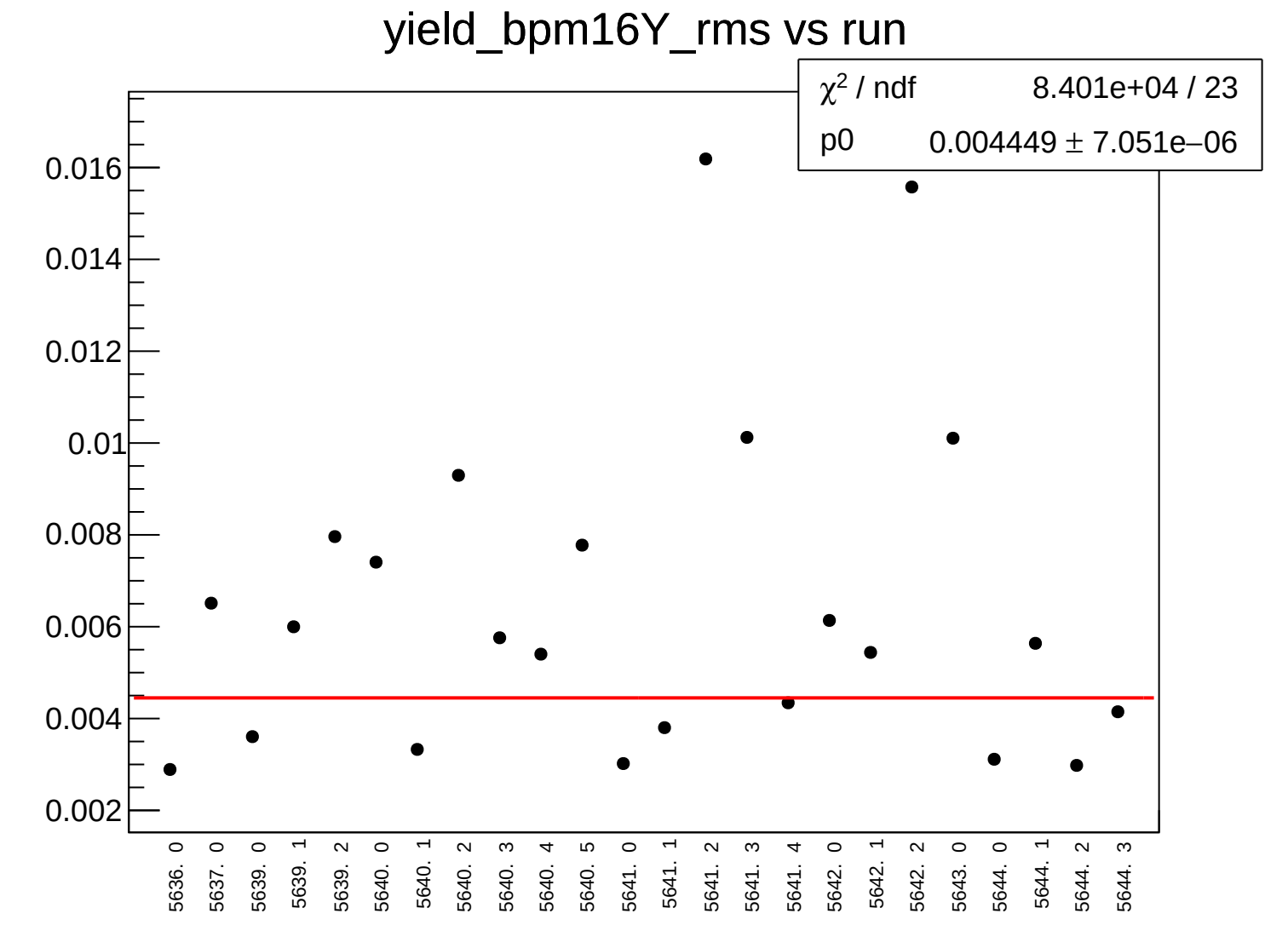

pull1D
Entries 24
Mean −6.731
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

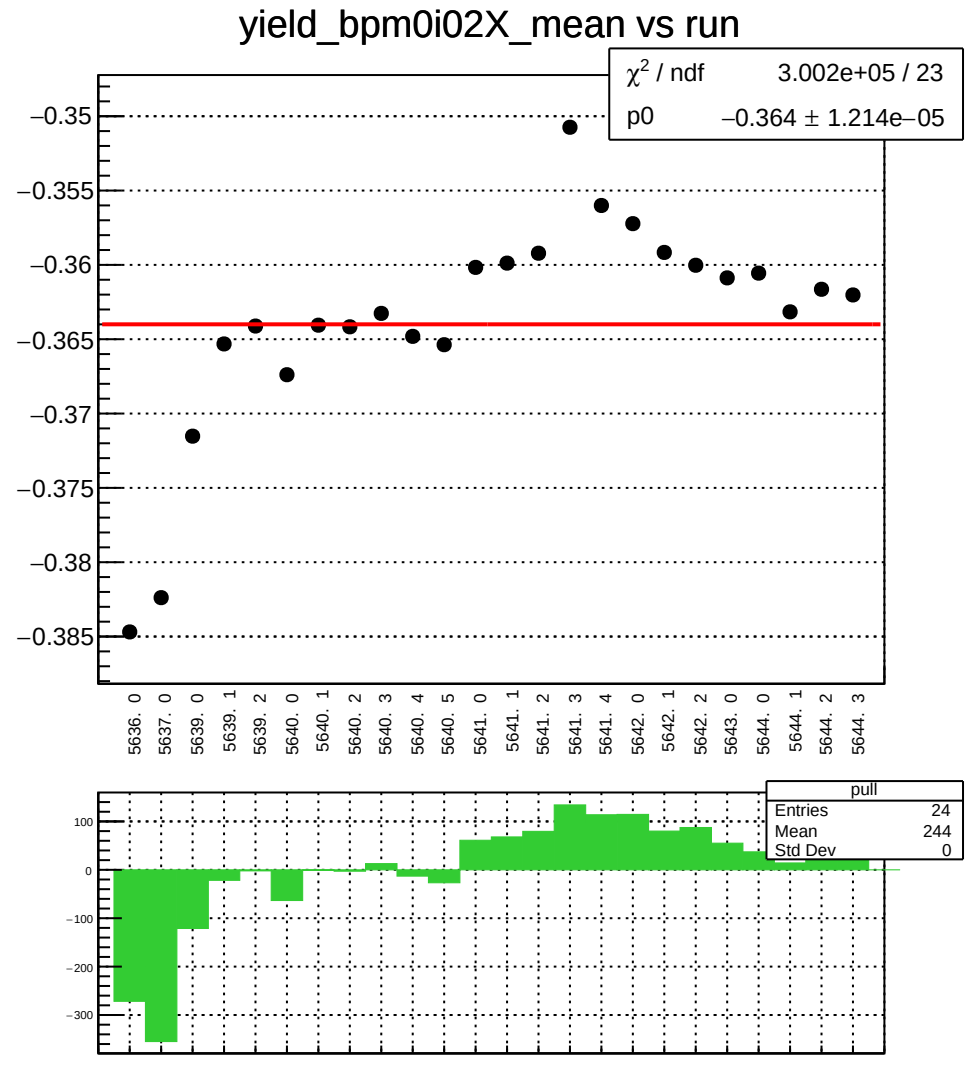

yield_bpm16X_rms vs run
χ² / ndf 1.155e+05 / 23
p0 0.03337 ± 5.51e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

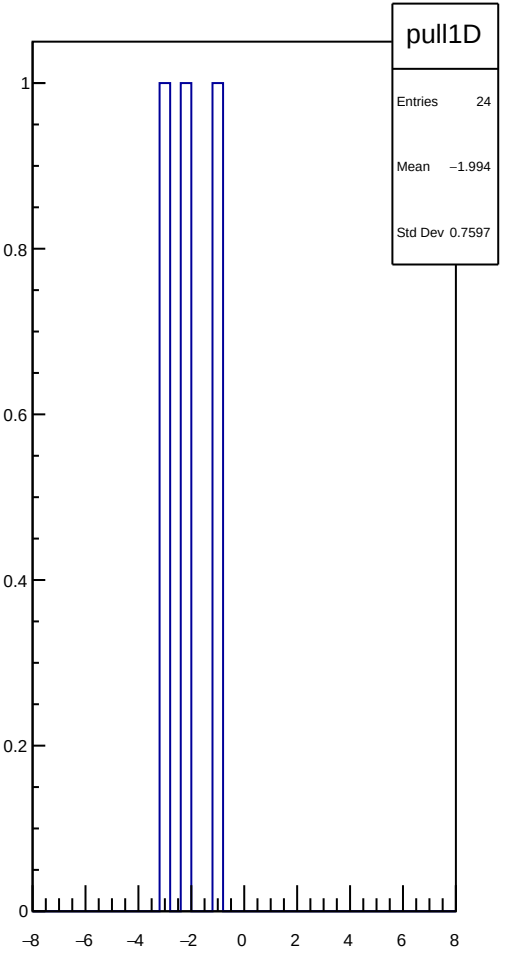

yield_bpm16Y_mean vs run
χ² / ndf 3.816e+04 / 23
p0 −0.2224 ± 9.971e−06
−0.216
−0.218
−0.22
−0.222
−0.224
−0.226
−0.228
−0.23
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

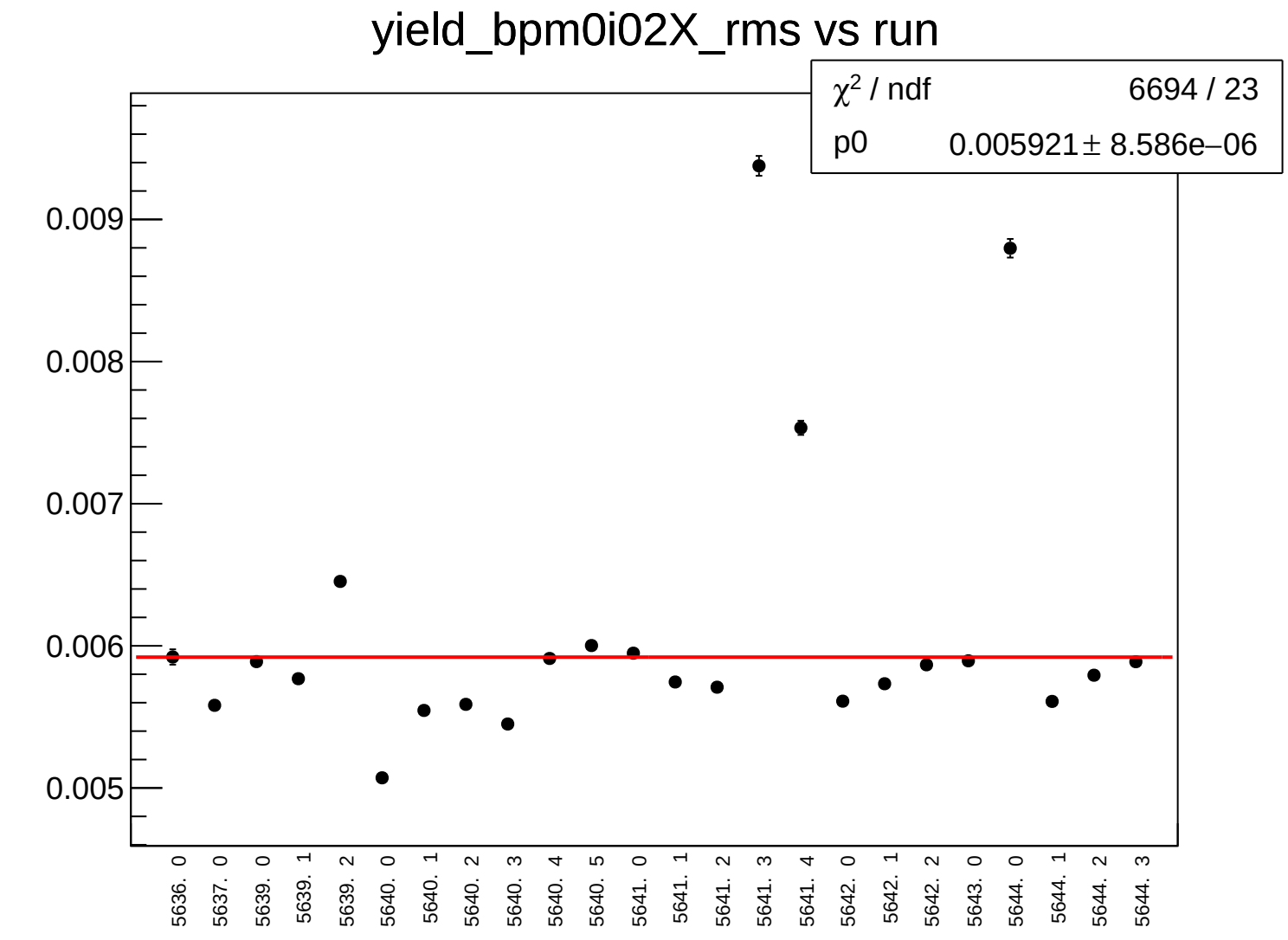

pull
Entries 24
Mean 26.7
Std Dev 0
60
40
20
0
−20
−40
−60

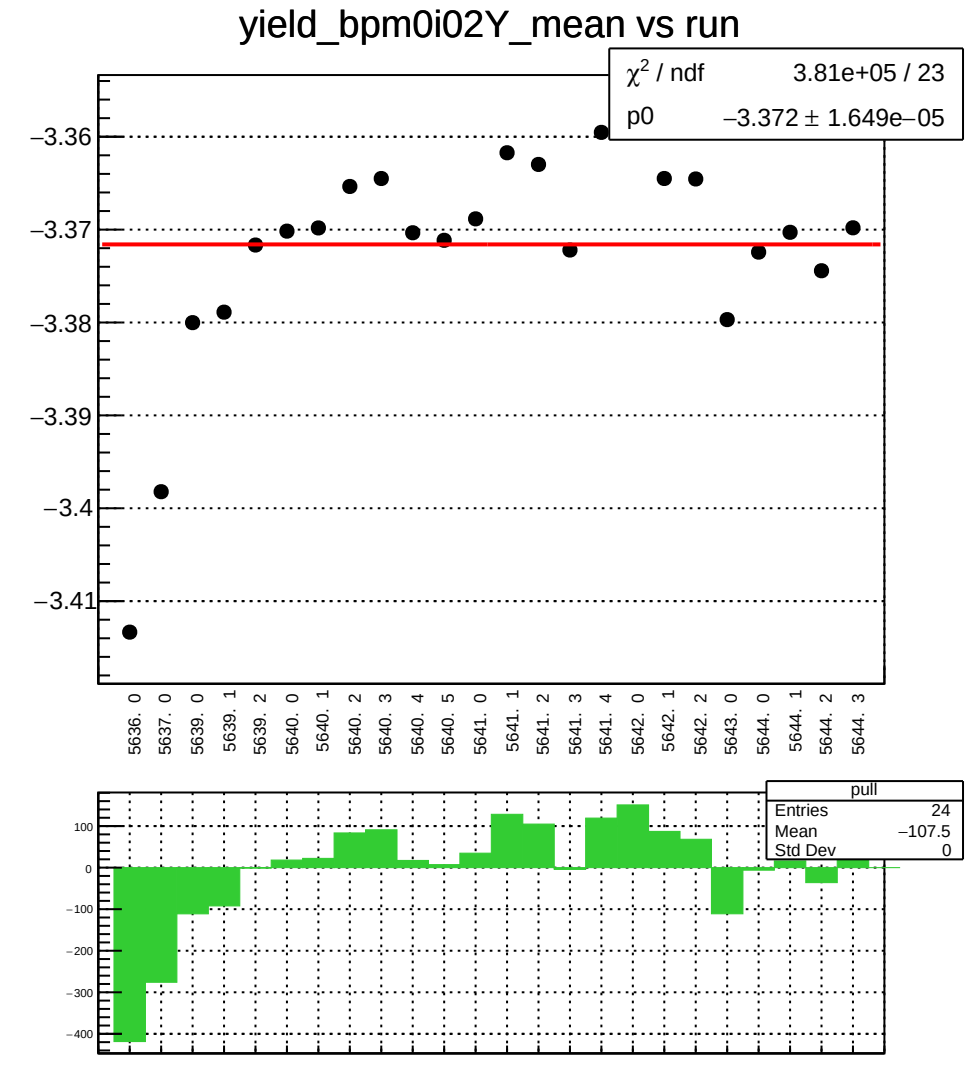

pull1D
Entries 24
Mean −4.315
Std Dev 2.603
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

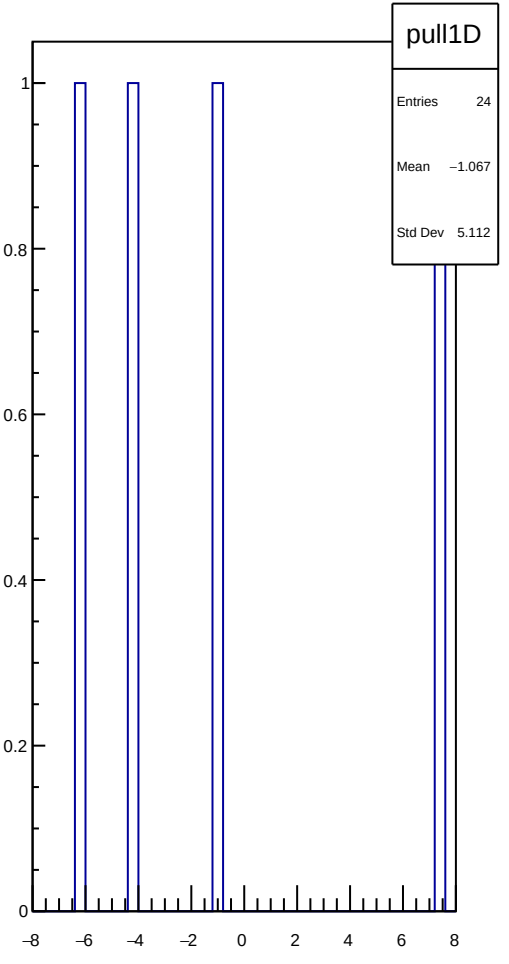

yield_bpm16Y_rms vs run
χ² / ndf 8.401e+04 / 23
p0 0.004449 ± 7.051e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

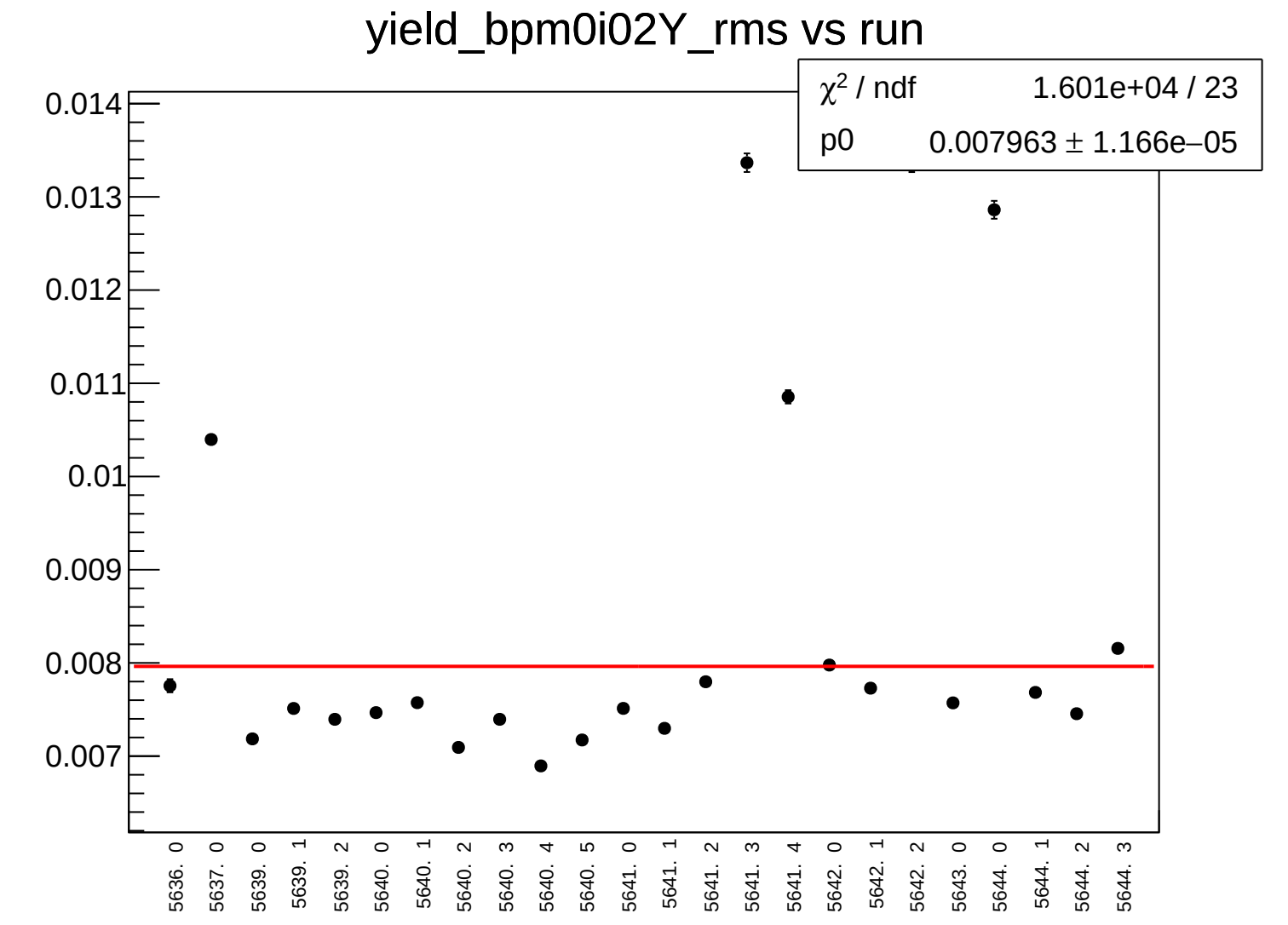

yield_bpm0i02X_mean vs run
χ² / ndf 3.002e+05 / 23
p0 −0.364 ± 1.214e−05
−0.35
−0.355
−0.36
−0.365
−0.37
−0.375
−0.38
−0.385
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 244
Std Dev 0
100
0
−100
−200
−300

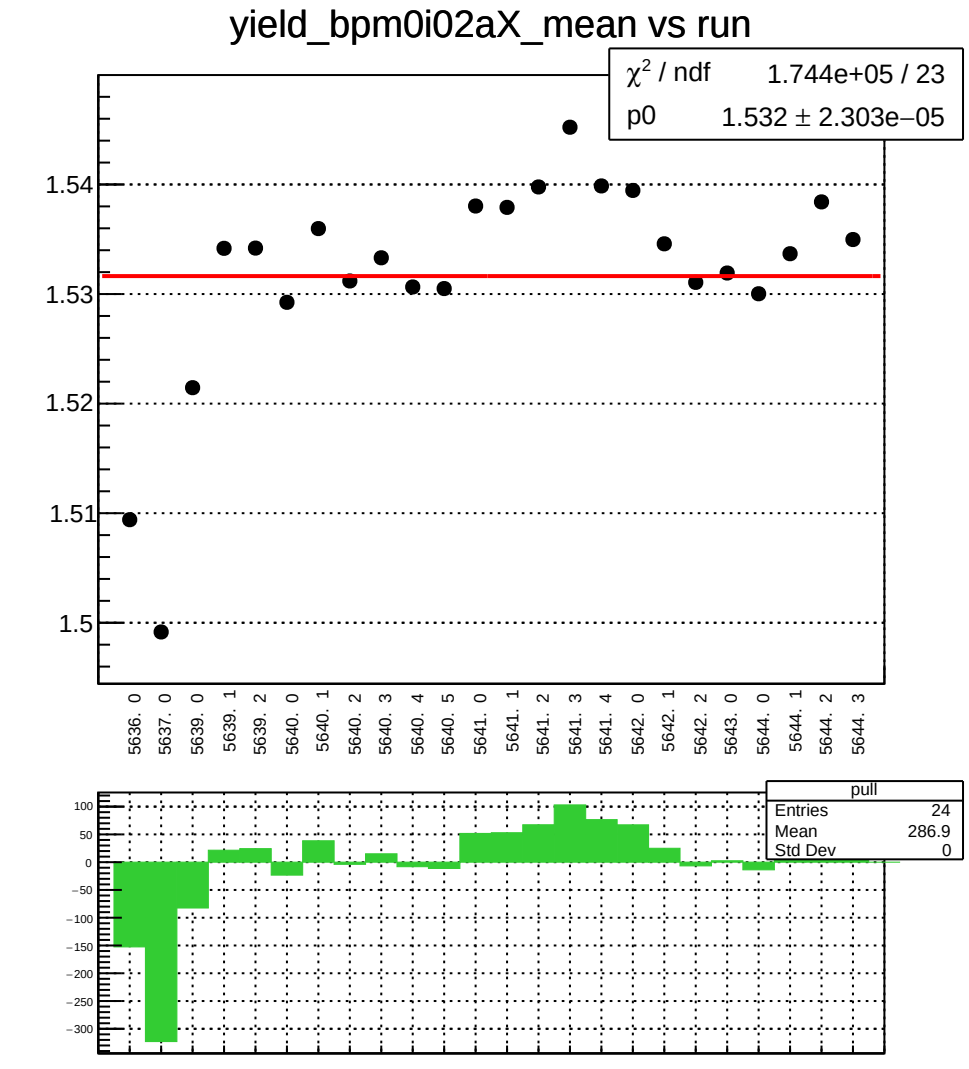

pull1D
Entries 24
Mean −1.994
Std Dev 0.7597
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

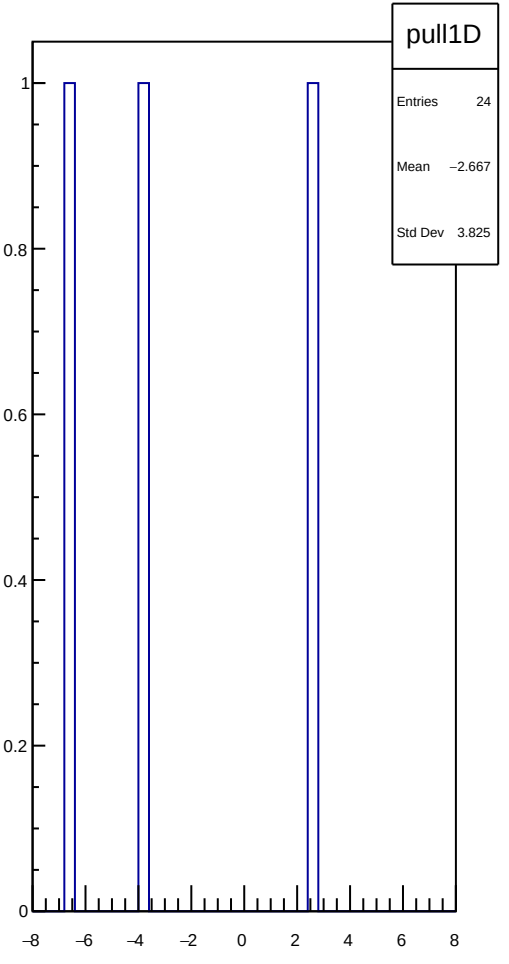

yield_bpm0i02X_rms vs run
χ² / ndf 6694 / 23
p0 0.005921 ± 8.586e−06
0.009
0.008
0.007
0.006
0.005
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

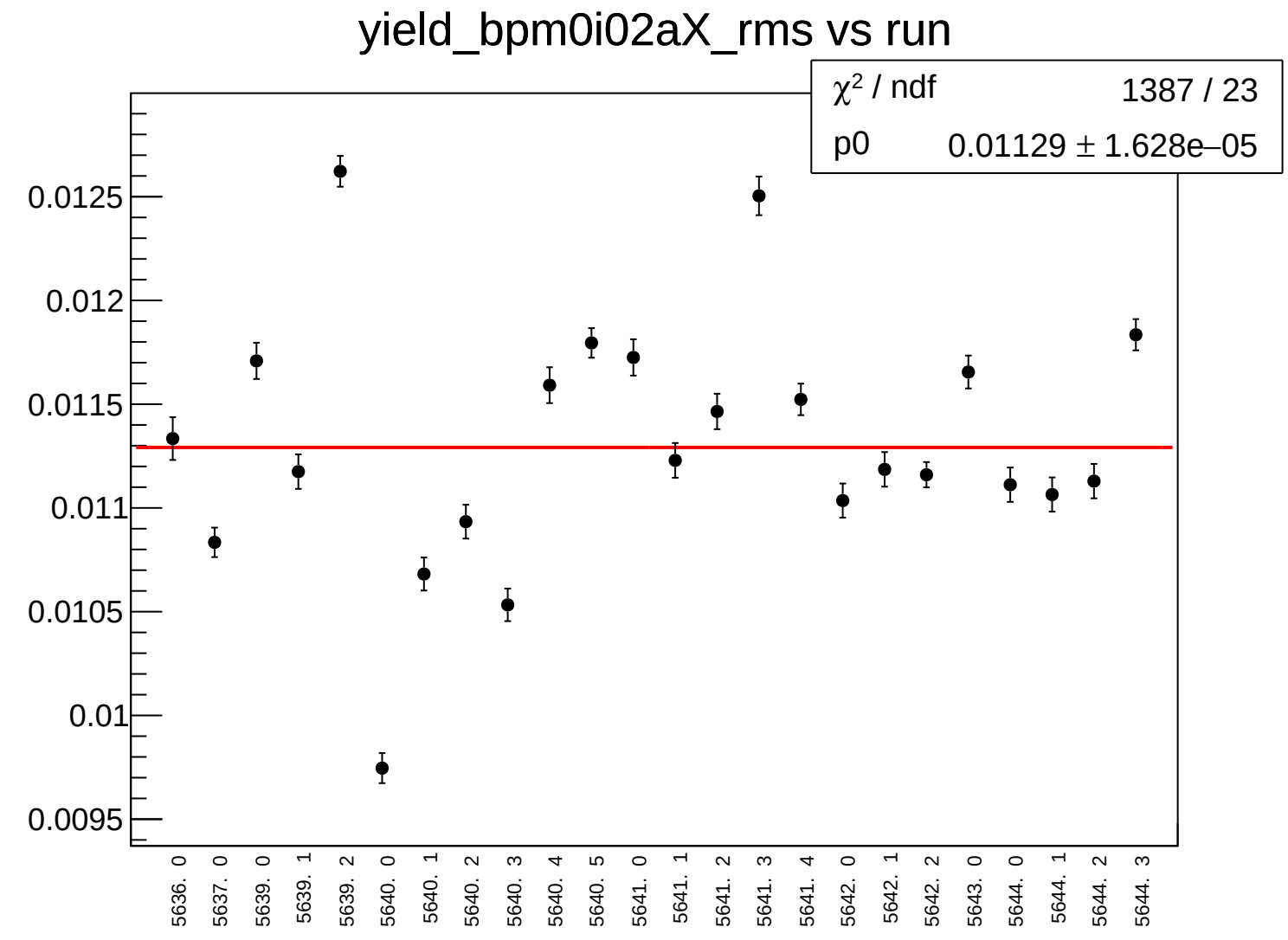

yield_bpm0i02Y_mean vs run
χ² / ndf 3.81e+05 / 23
p0 −3.372 ± 1.649e−05
−3.36
−3.37
−3.38
−3.39
−3.4
−3.41
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −107.5
Std Dev 0
100
0
−100
−200
−300
−400

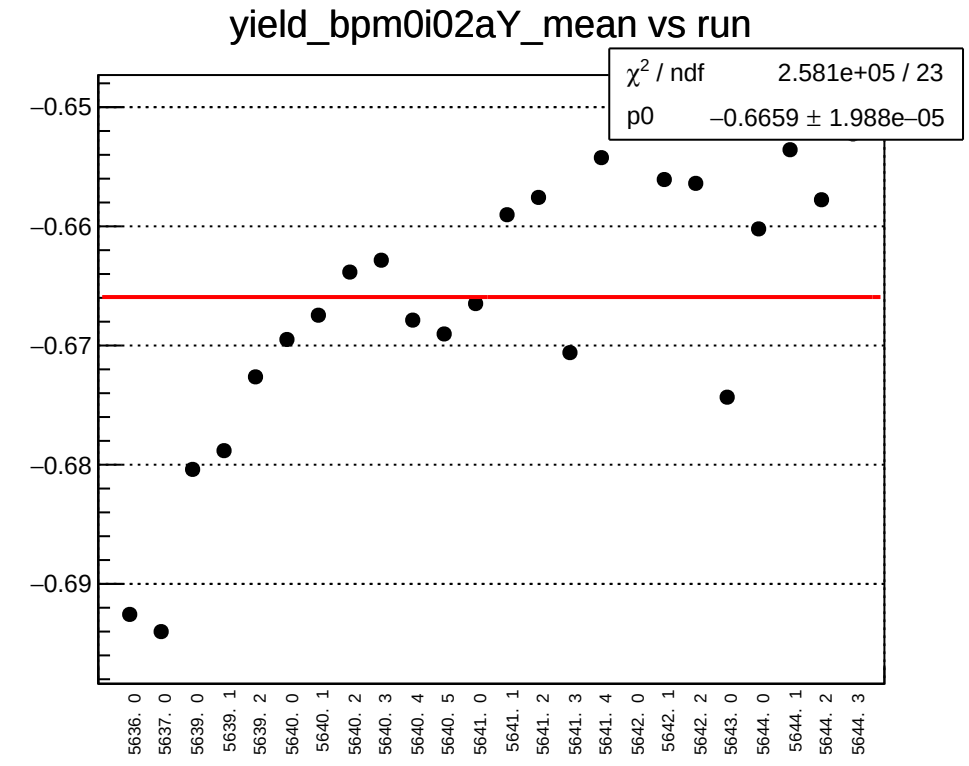

pull1D
Entries 24
Mean −1.067
Std Dev 5.112
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

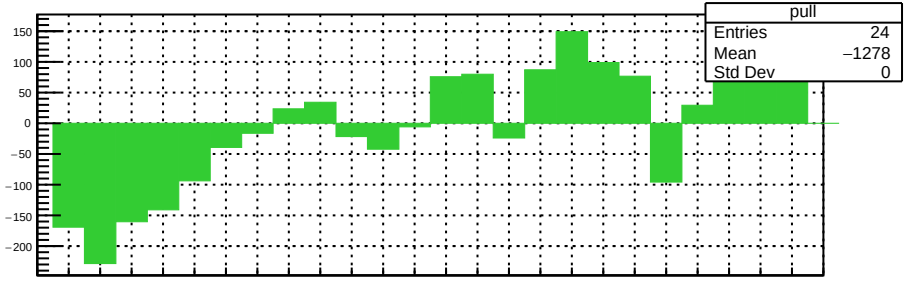

yield_bpm0i02Y_rms vs run
χ² / ndf 1.601e+04 / 23
p0 0.007963 ± 1.166e−05
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

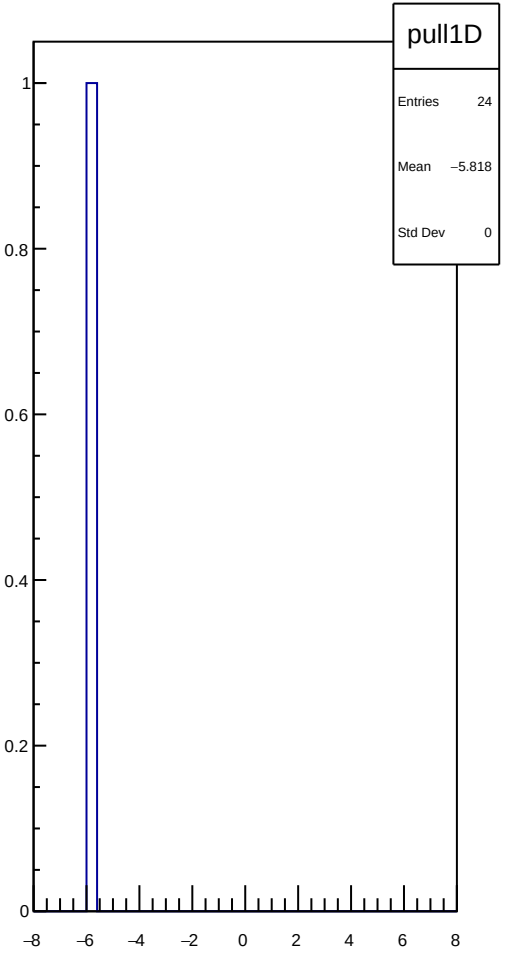

yield_bpm0i02aX_mean vs run
χ² / ndf 1.744e+05 / 23
p0 1.532 ± 2.303e−05
1.54
1.53
1.52
1.51
1.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 286.9
Std Dev 0
100
50
0
−50
−100
−150
−200
−250
−300

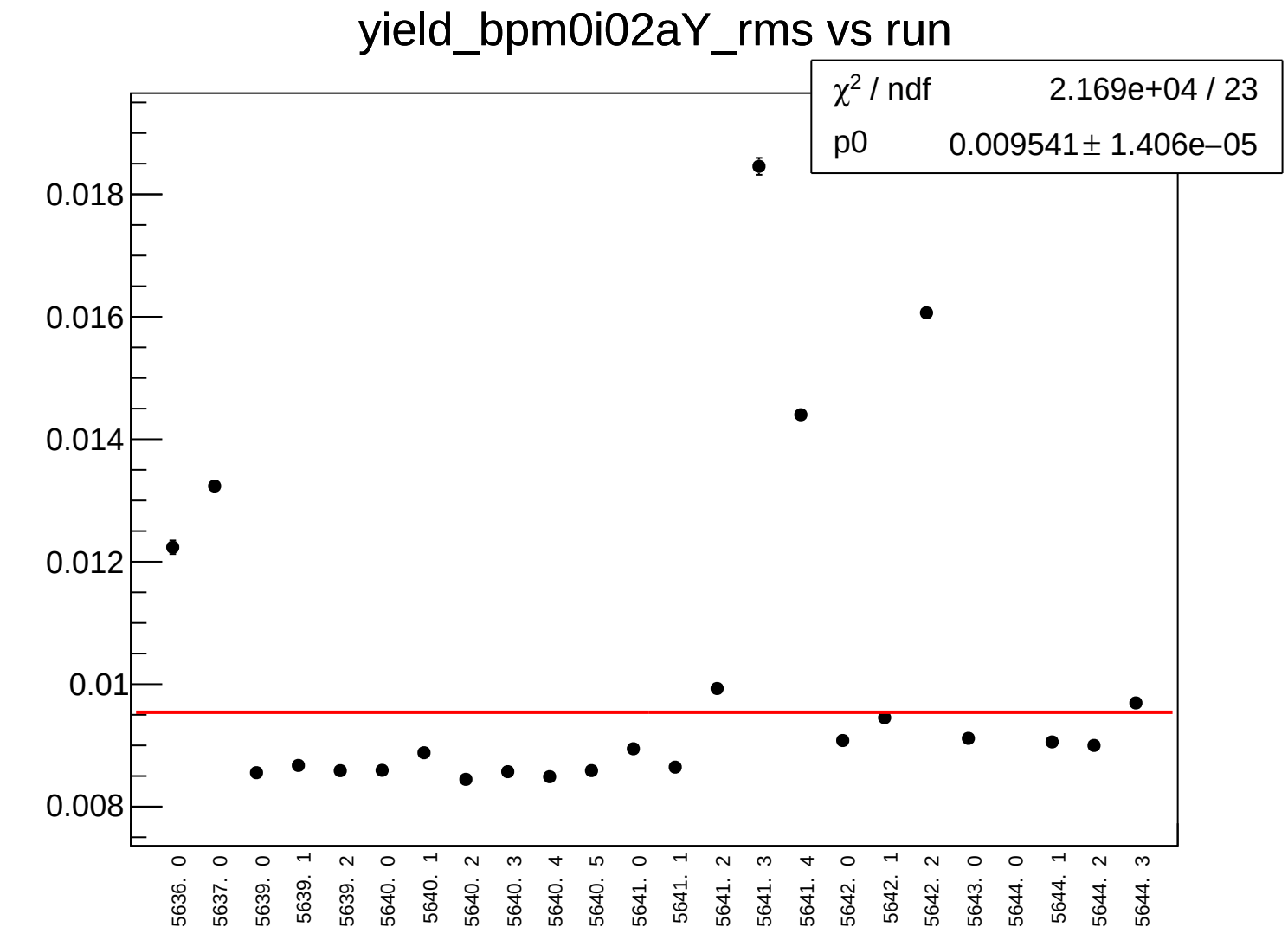

pull1D
Entries 24
Mean −2.667
Std Dev 3.825
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

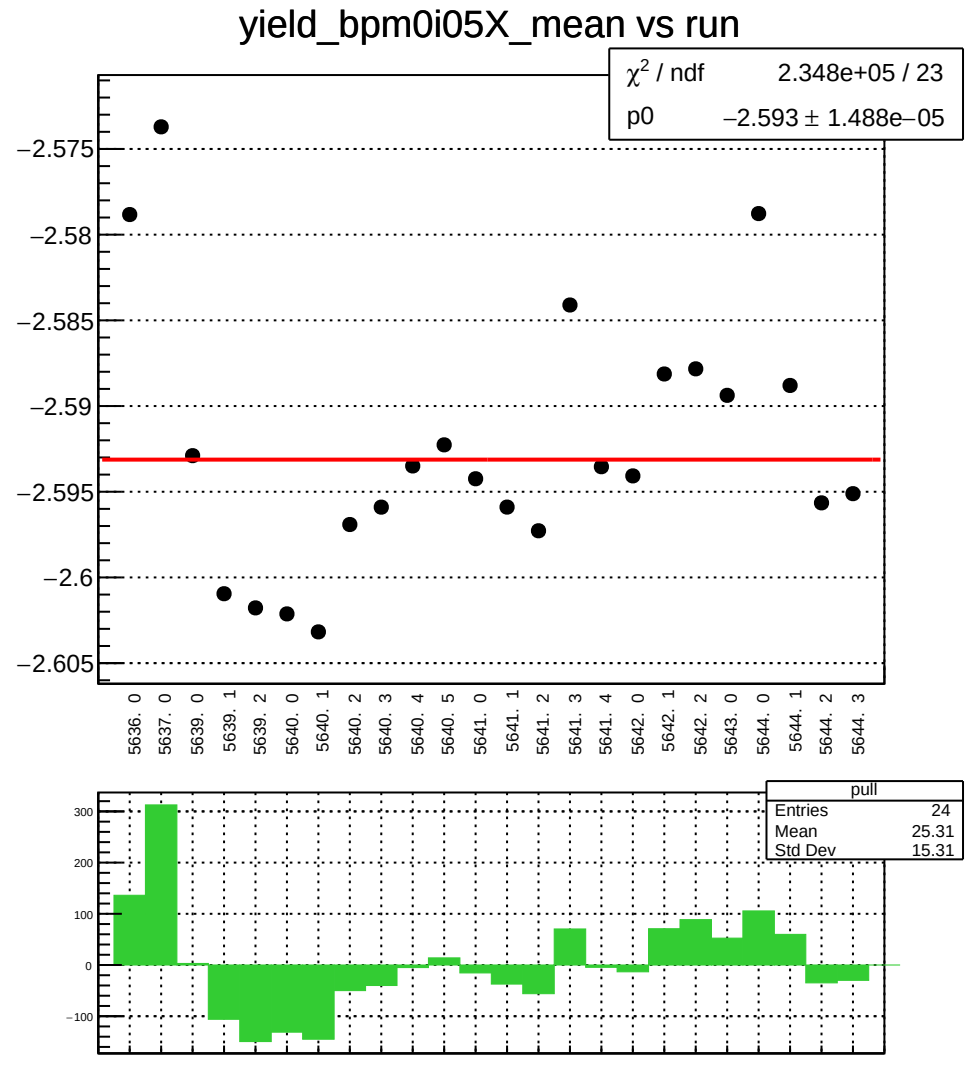

yield_bpm0i02aX_rms vs run
χ² / ndf 1387 / 23
p0 0.01129 ± 1.628e–05
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

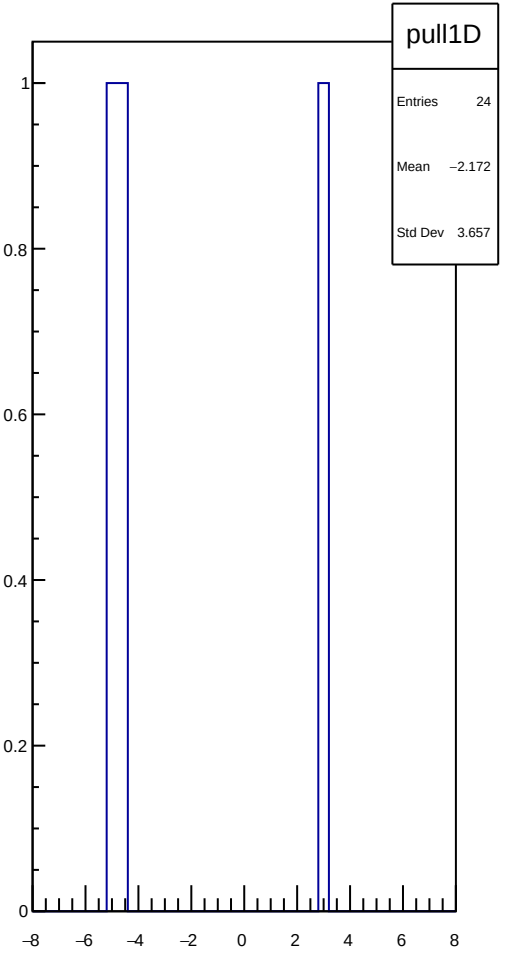

yield_bpm0i02aY_mean vs run
χ² / ndf 2.581e+05 / 23
p0 −0.6659 ± 1.988e−05
−0.65
−0.66
−0.67
−0.68
−0.69
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

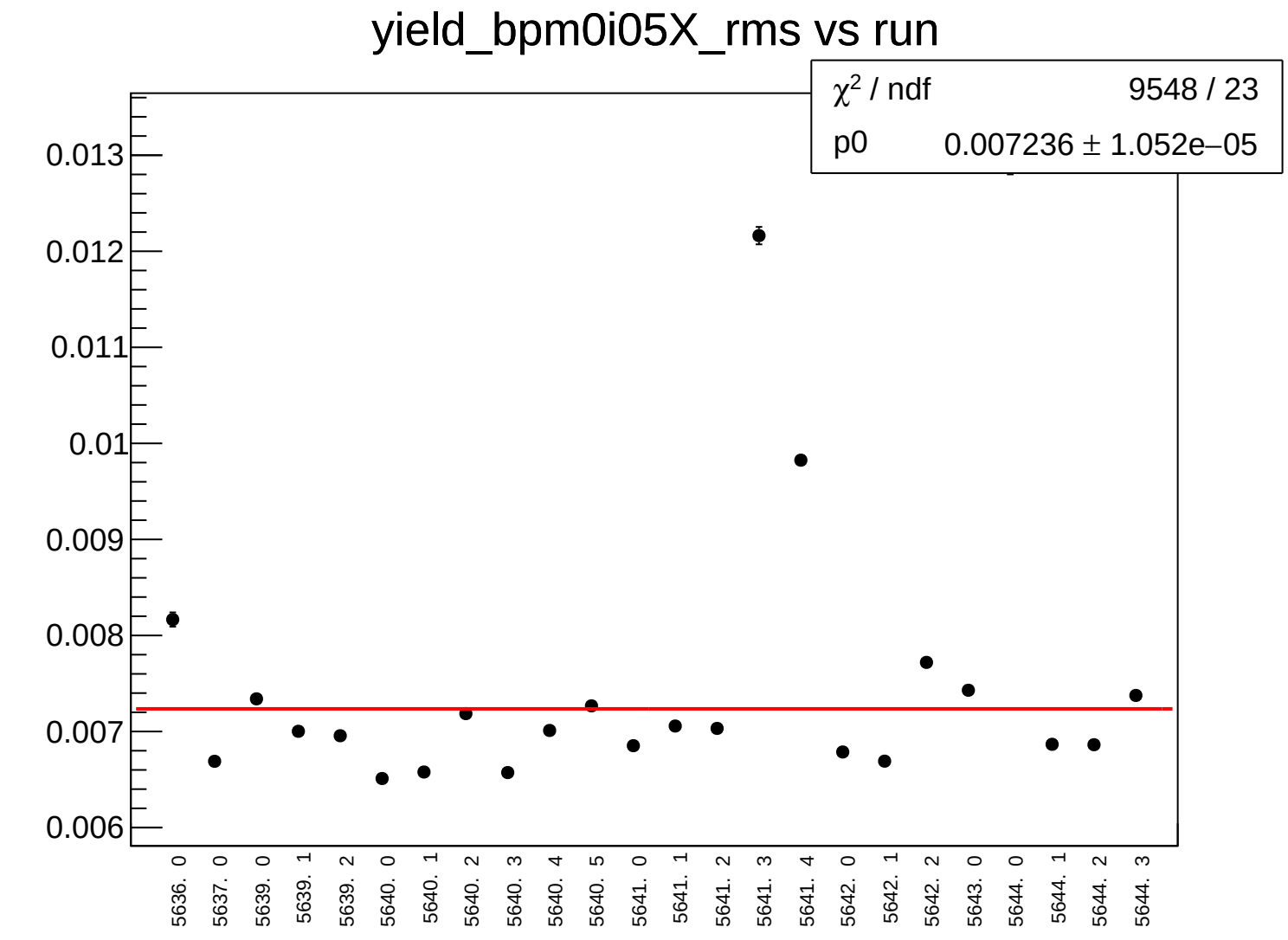

pull
Entries 24
Mean −1278
Std Dev 0
150
100
50
0
−50
−100
−150
−200

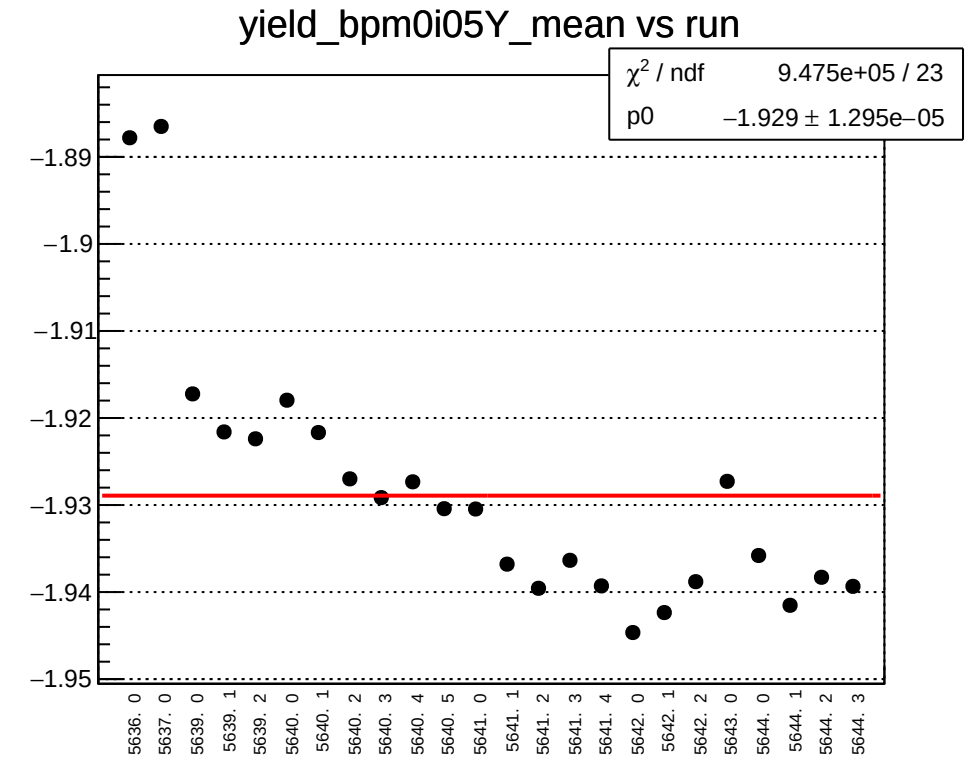

pull1D
Entries 24
Mean −5.818
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

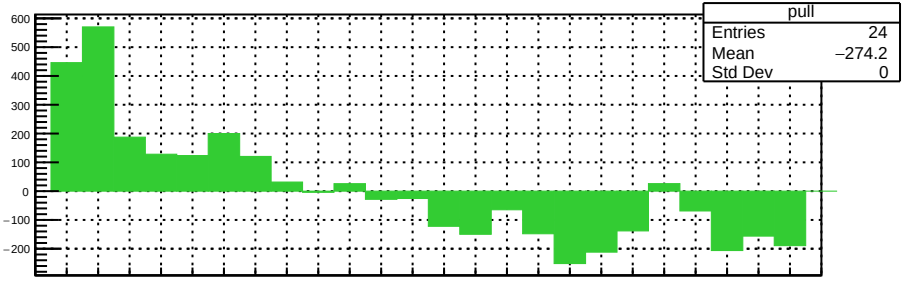

yield_bpm0i02aY_rms vs run
χ² / ndf 2.169e+04 / 23
p0 0.009541 ± 1.406e−05
0.018
0.016
0.014
0.012
0.01
0.008
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

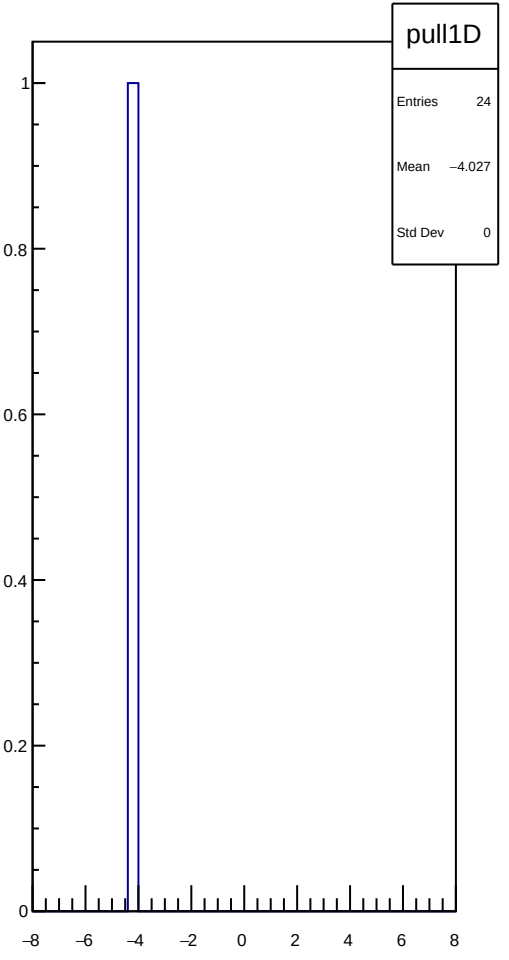

yield_bpm0i05X_mean vs run
χ² / ndf 2.348e+05 / 23
p0 −2.593 ± 1.488e−05
−2.575
−2.58
−2.585
−2.59
−2.595
−2.6
−2.605
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 25.31
Std Dev 15.31
300
200
100
0
−100

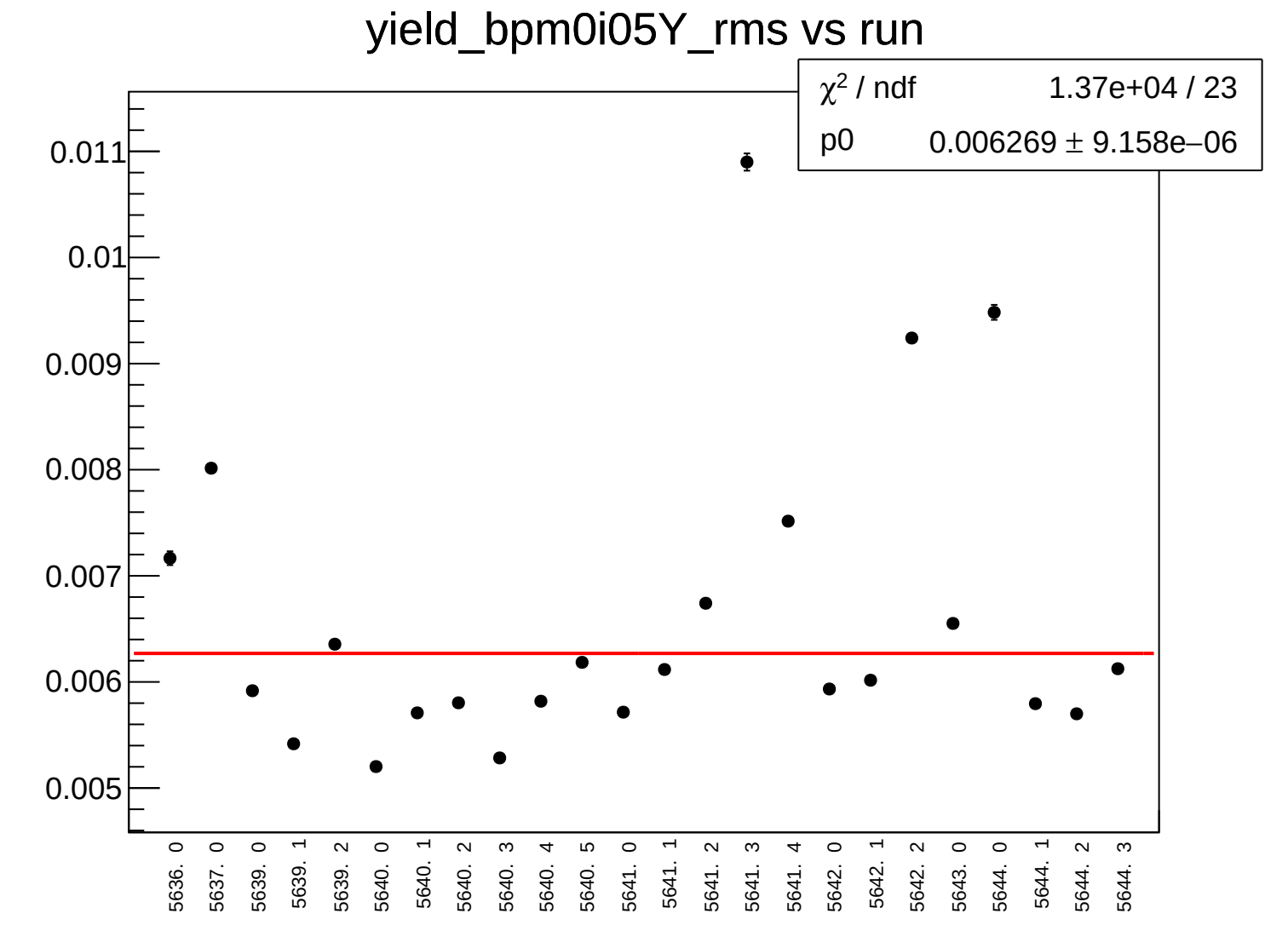

pull1D
Entries 24
Mean −2.172
Std Dev 3.657
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

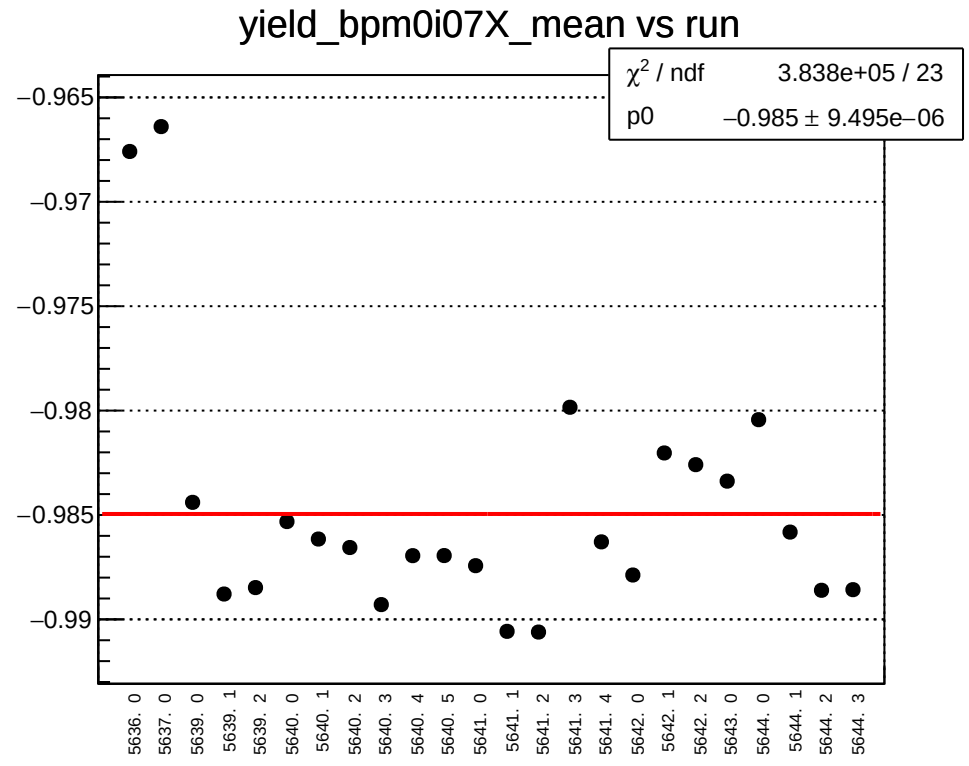

yield_bpm0i05X_rms vs run
χ² / ndf 9548 / 23
p0 0.007236 ± 1.052e−05
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

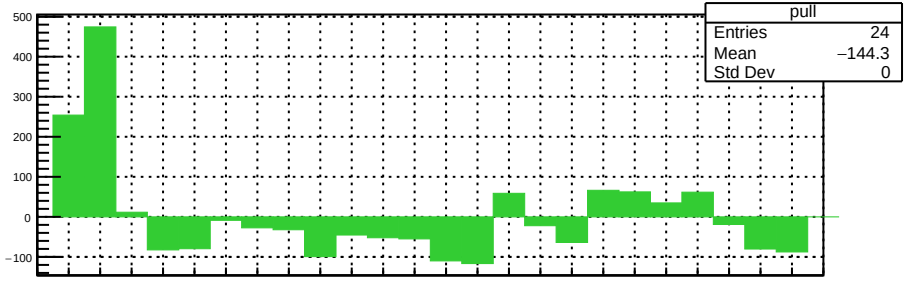

yield_bpm0i05Y_mean vs run
χ² / ndf 9.475e+05 / 23
p0 −1.929 ± 1.295e−05
−1.89
−1.9
−1.91
−1.92
−1.93
−1.94
−1.95
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

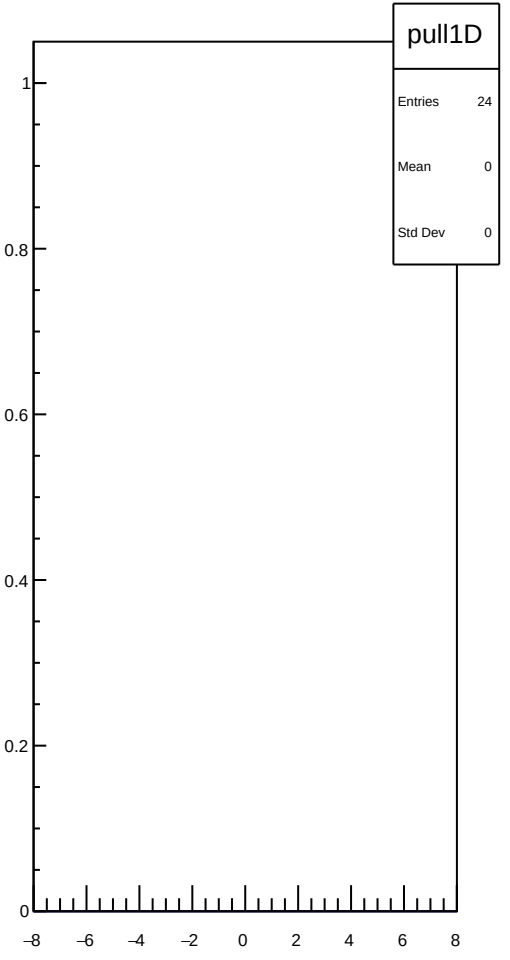

pull
Entries 24
Mean −274.2
Std Dev 0
600
500
400
300
200
100
0
−100
−200

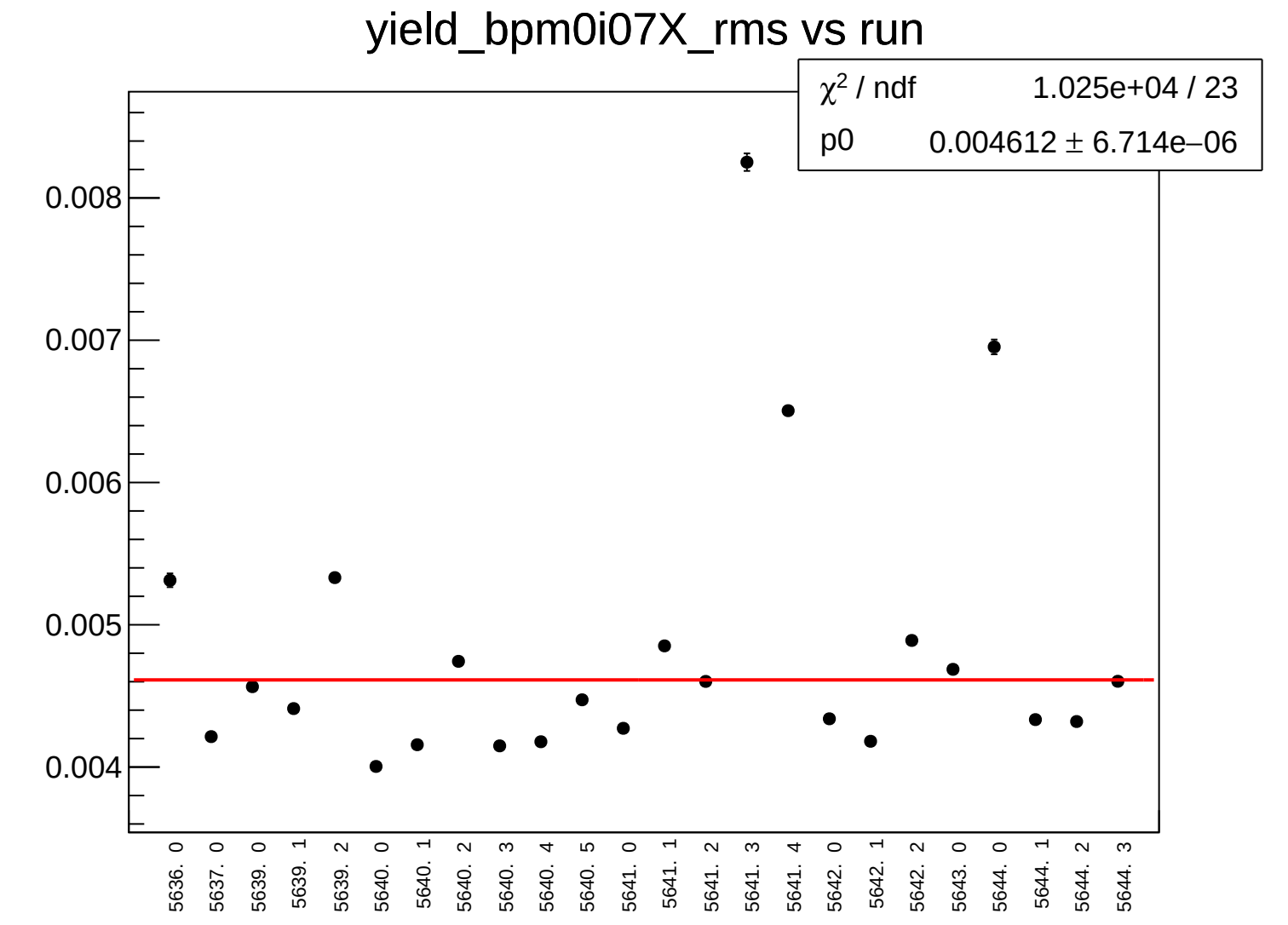

pull1D
Entries 24
Mean −4.027
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

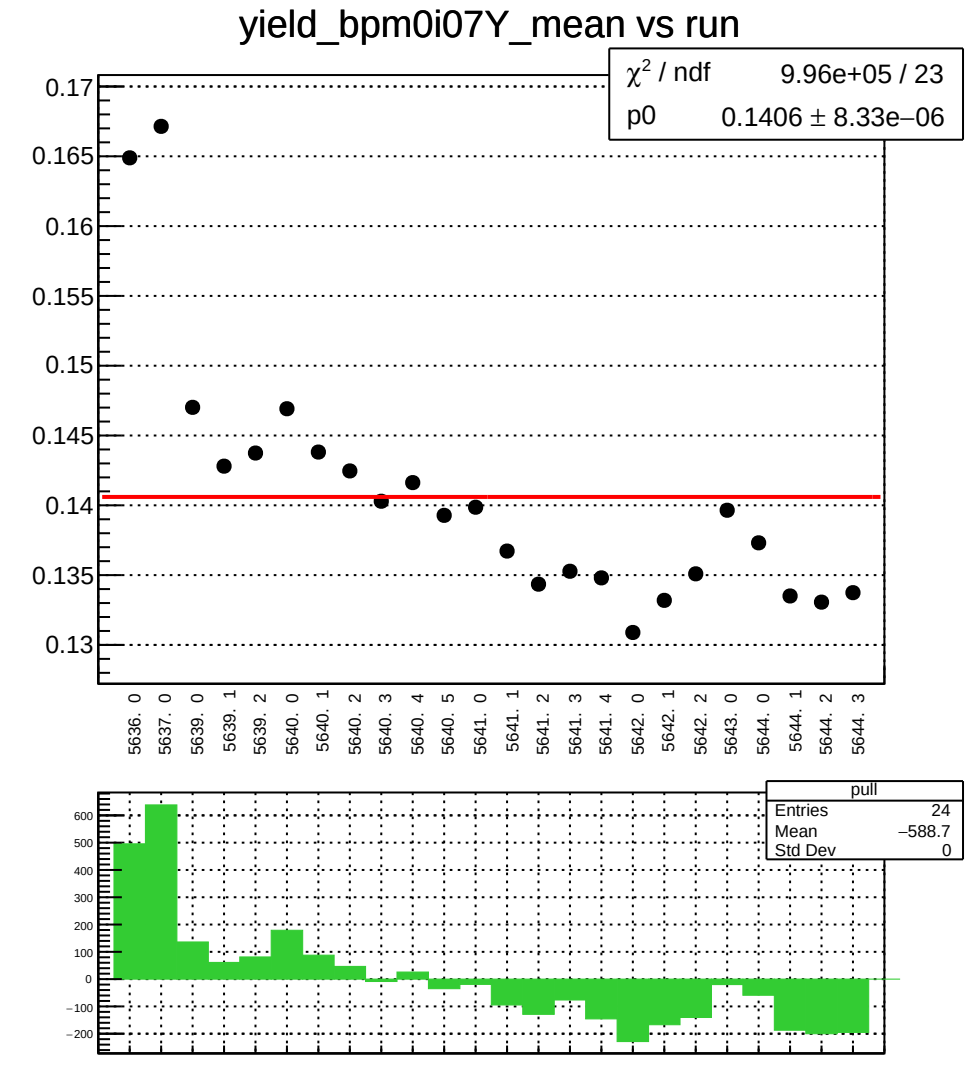

yield_bpm0i05Y_rms vs run
χ² / ndf 1.37e+04 / 23
p0 0.006269 ± 9.158e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

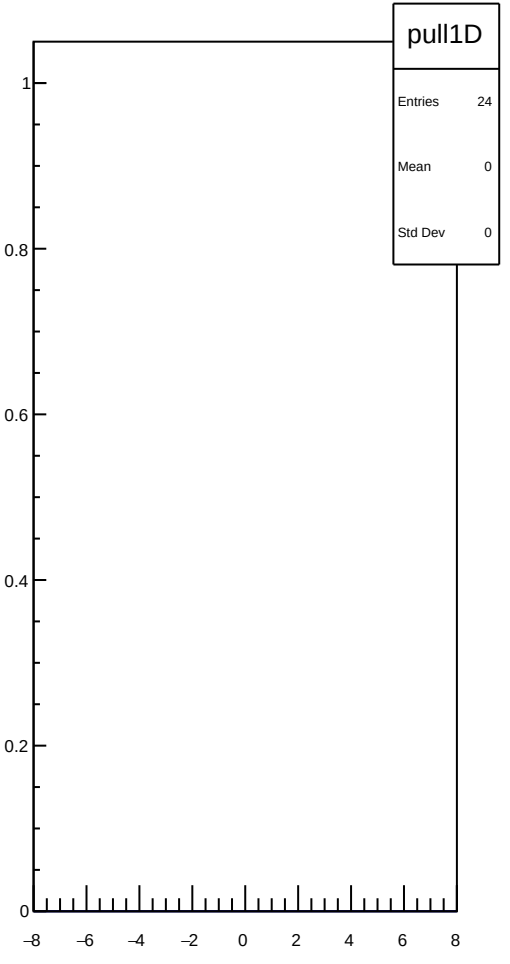

yield_bpm0i07X_mean vs run
χ² / ndf 3.838e+05 / 23
p0 −0.985 ± 9.495e−06
−0.965
−0.97
−0.975
−0.98
−0.985
−0.99
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

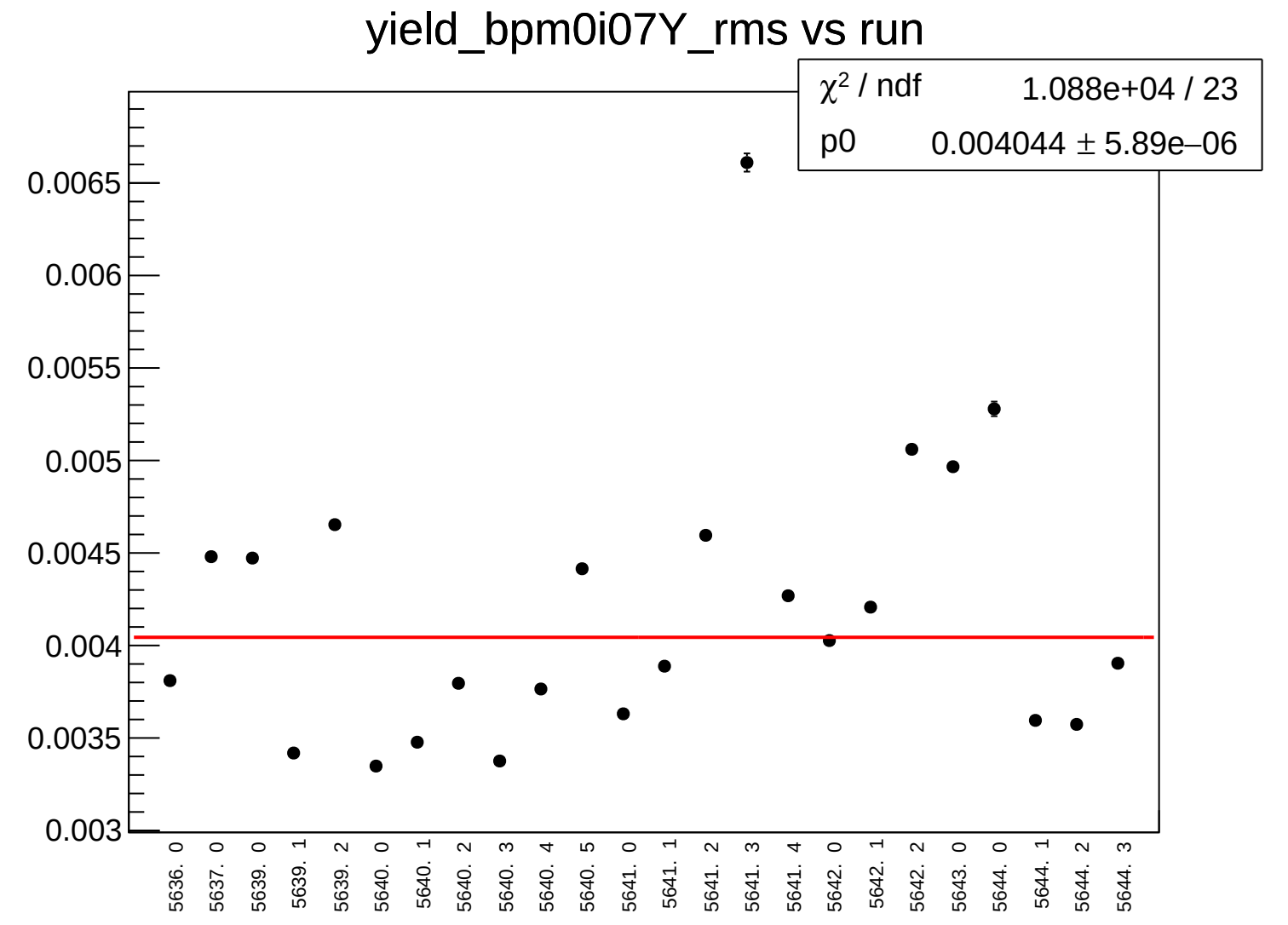

pull
Entries 24
Mean −144.3
Std Dev 0
500
400
300
200
100
0
−100

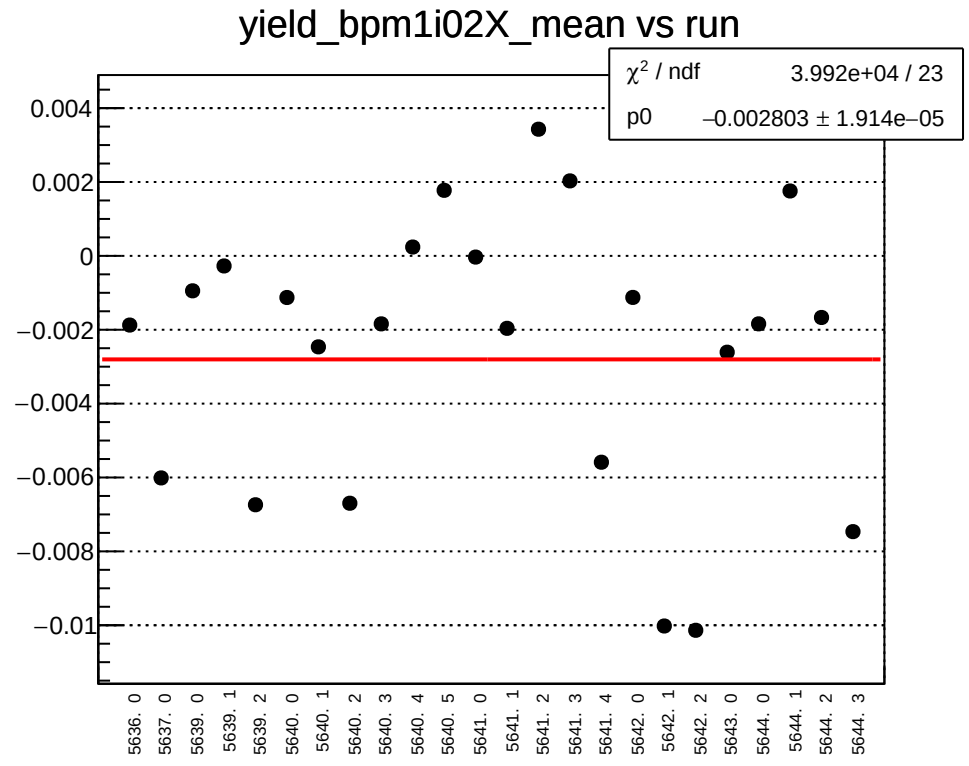

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

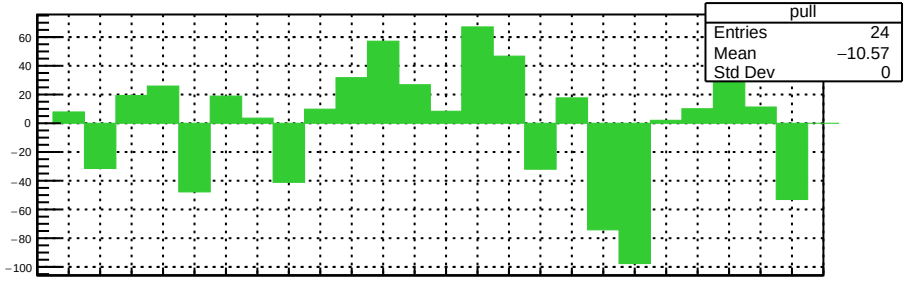

yield_bpm0i07X_rms vs run
χ² / ndf 1.025e+04 / 23
p0 0.004612 ± 6.714e−06
0.008
0.007
0.006
0.005
0.004
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

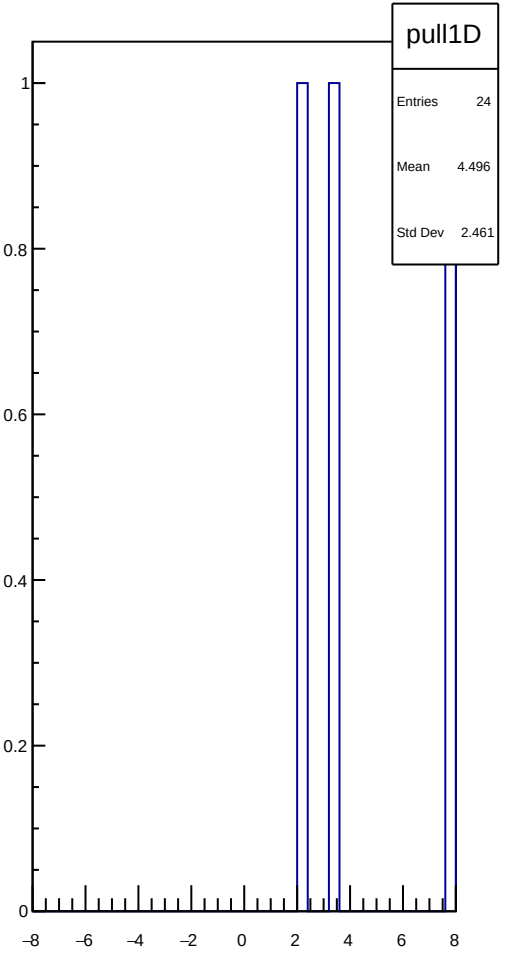

yield_bpm0i07Y_mean vs run
χ² / ndf 9.96e+05 / 23
p0 0.1406 ± 8.33e−06
0.17
0.165
0.16
0.155
0.15
0.145
0.14
0.135
0.13
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −588.7
Std Dev 0
600
500
400
300
200
100
0
−100
−200

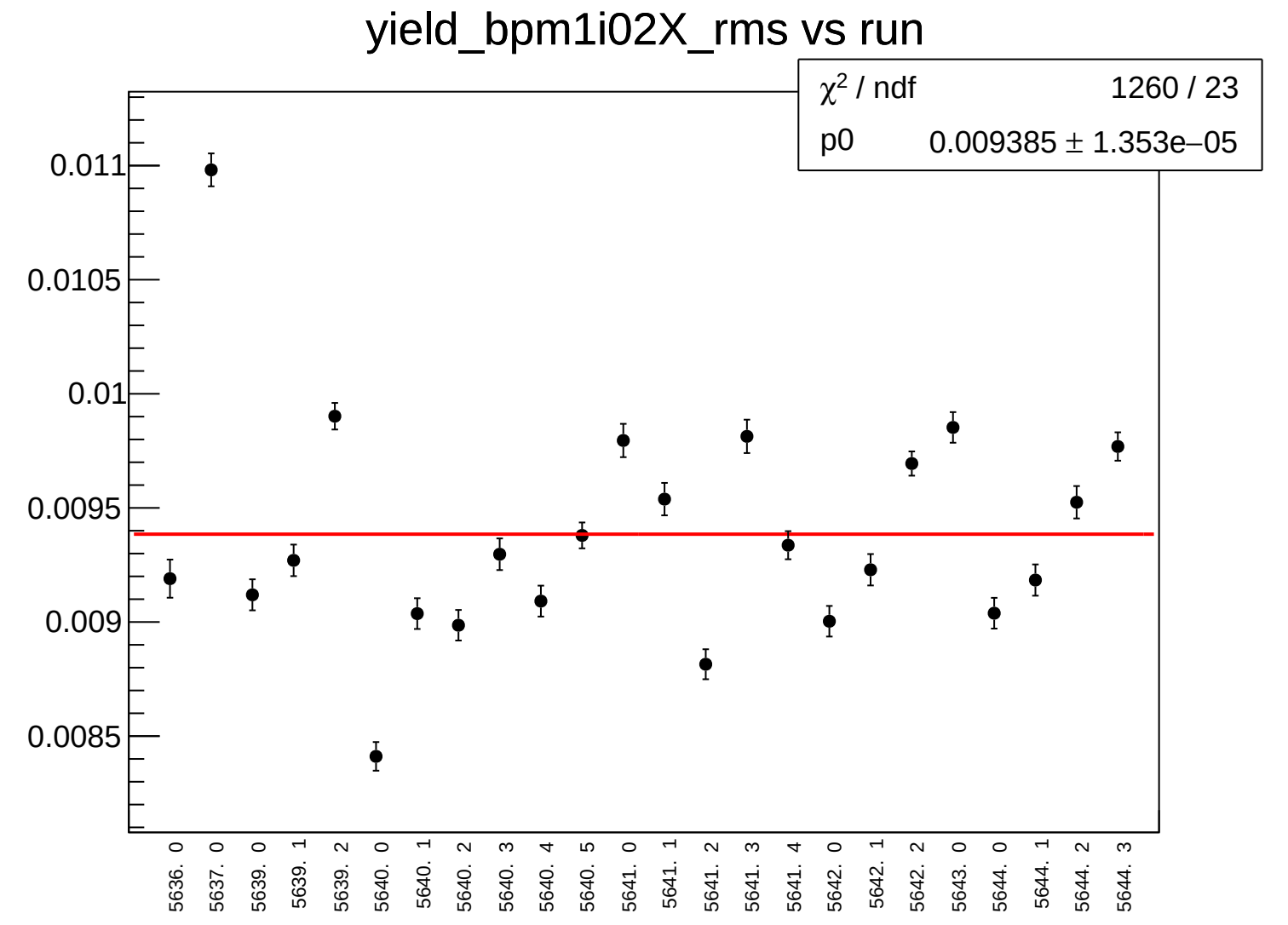

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

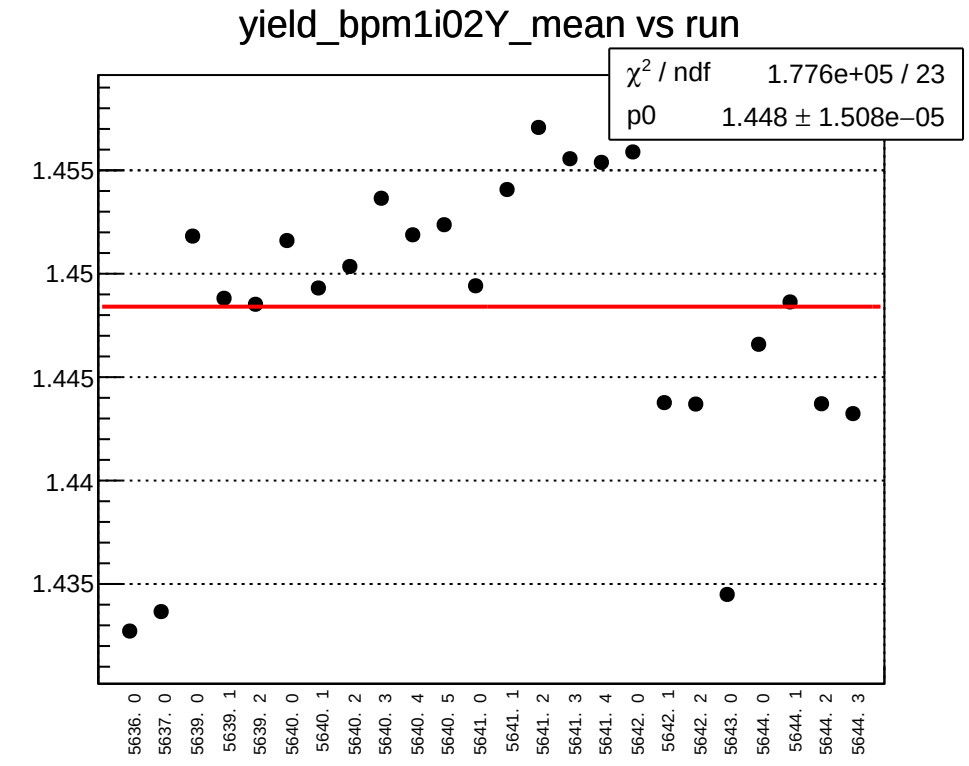

yield_bpm0i07Y_rms vs run
χ² / ndf 1.088e+04 / 23
p0 0.004044 ± 5.89e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

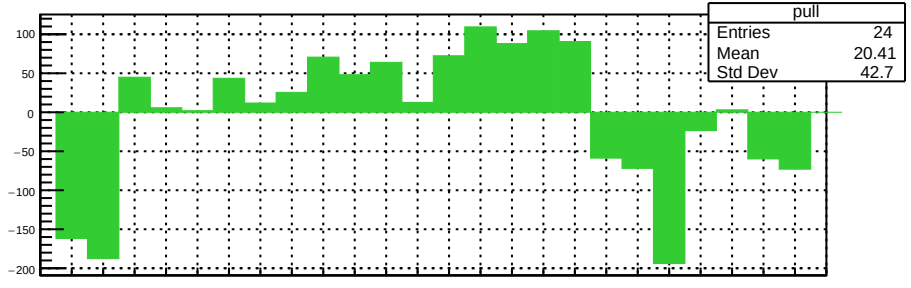

yield_bpm1i02X_mean vs run
χ² / ndf 3.992e+04 / 23
p0 −0.002803 ± 1.914e−05
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

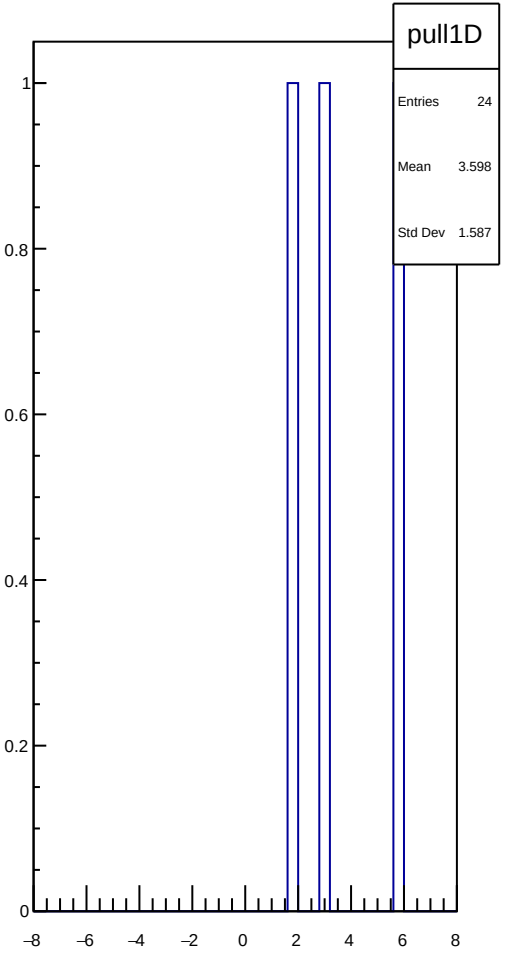

pull
Entries 24
Mean −10.57
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100

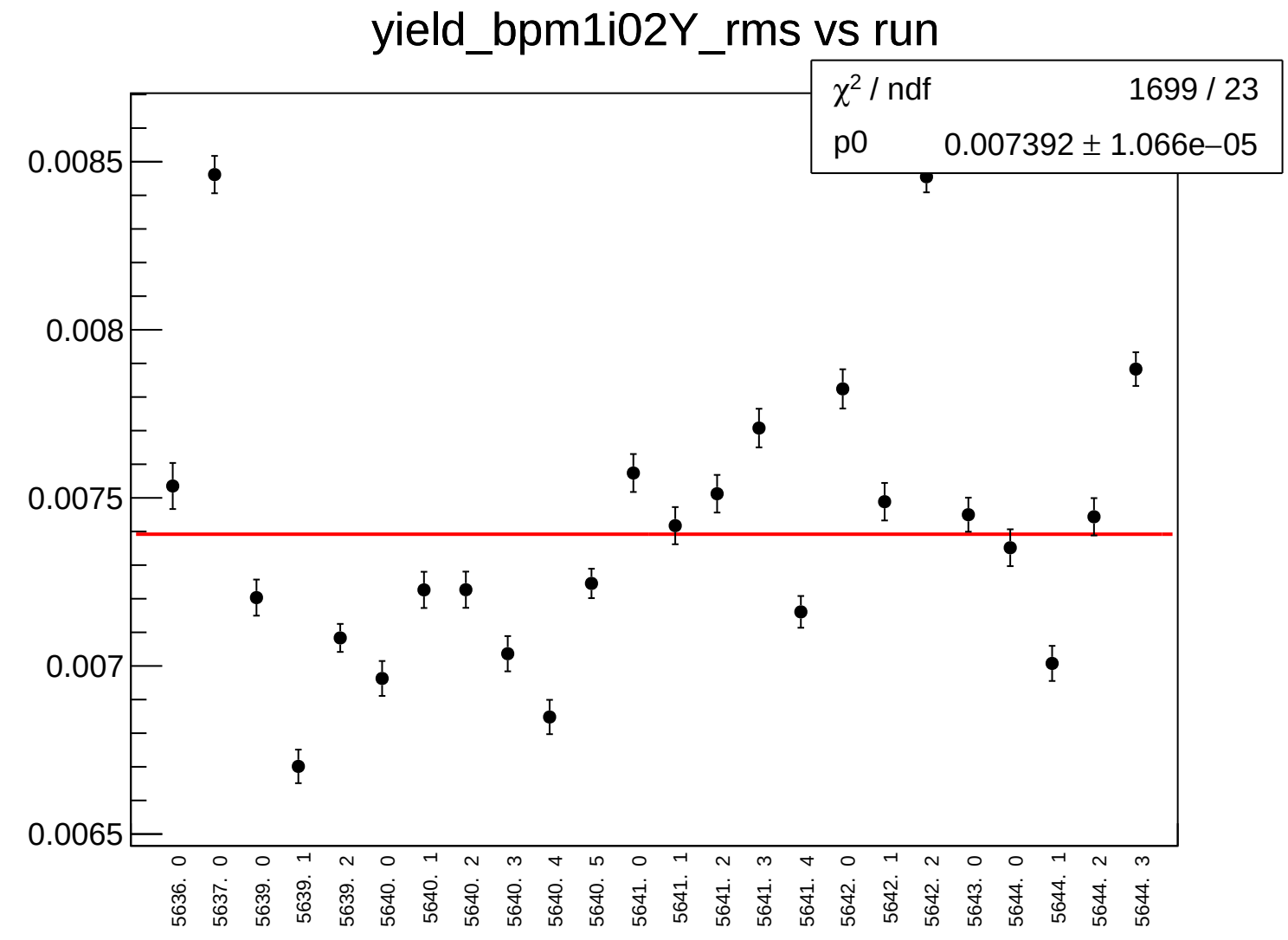

pull1D
Entries 24
Mean 4.496
Std Dev 2.461
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

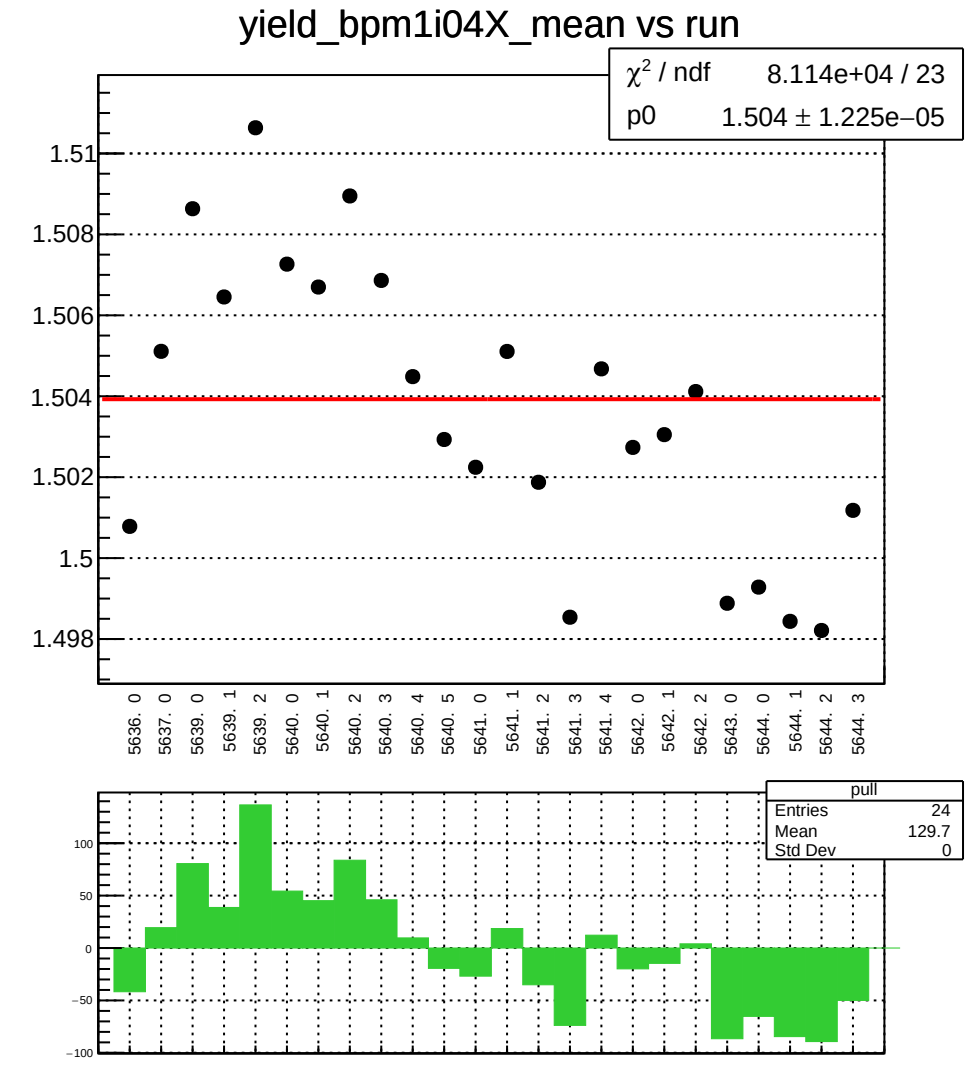

yield_bpm1i02X_rms vs run
χ² / ndf 1260 / 23
p0 0.009385 ± 1.353e−05
0.011
0.0105
0.01
0.0095
0.009
0.0085
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

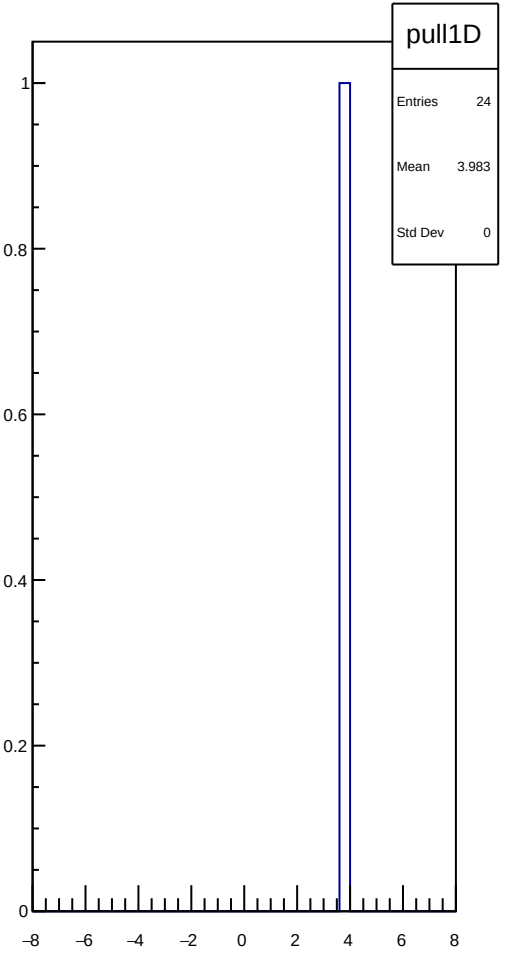

yield_bpm1i02Y_mean vs run
χ² / ndf 1.776e+05 / 23
p0 1.448 ± 1.508e−05
1.455
1.45
1.445
1.44
1.435
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

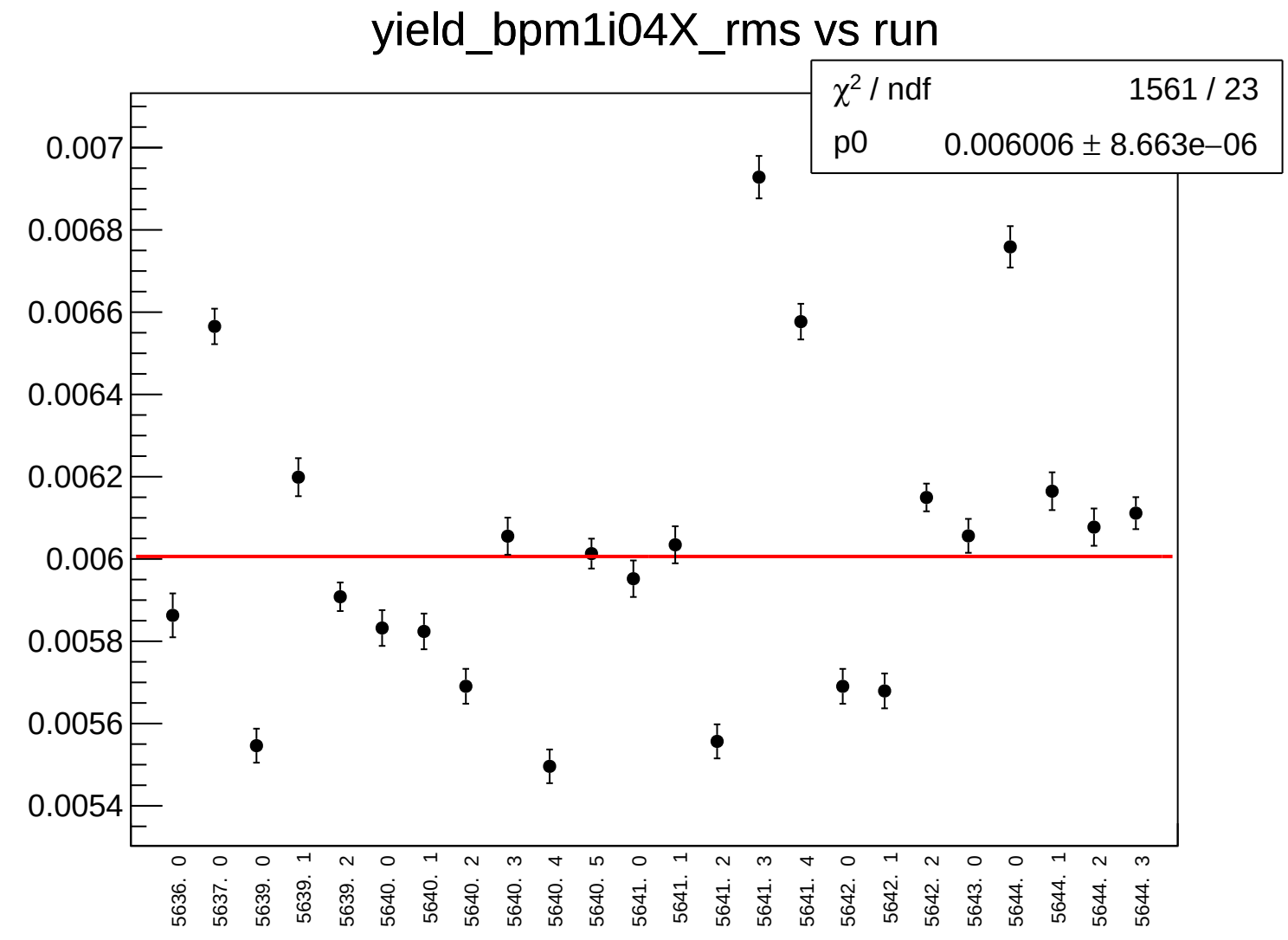

pull
Entries 24
Mean 20.41
Std Dev 42.7
100
50
0
−50
−100
−150
−200

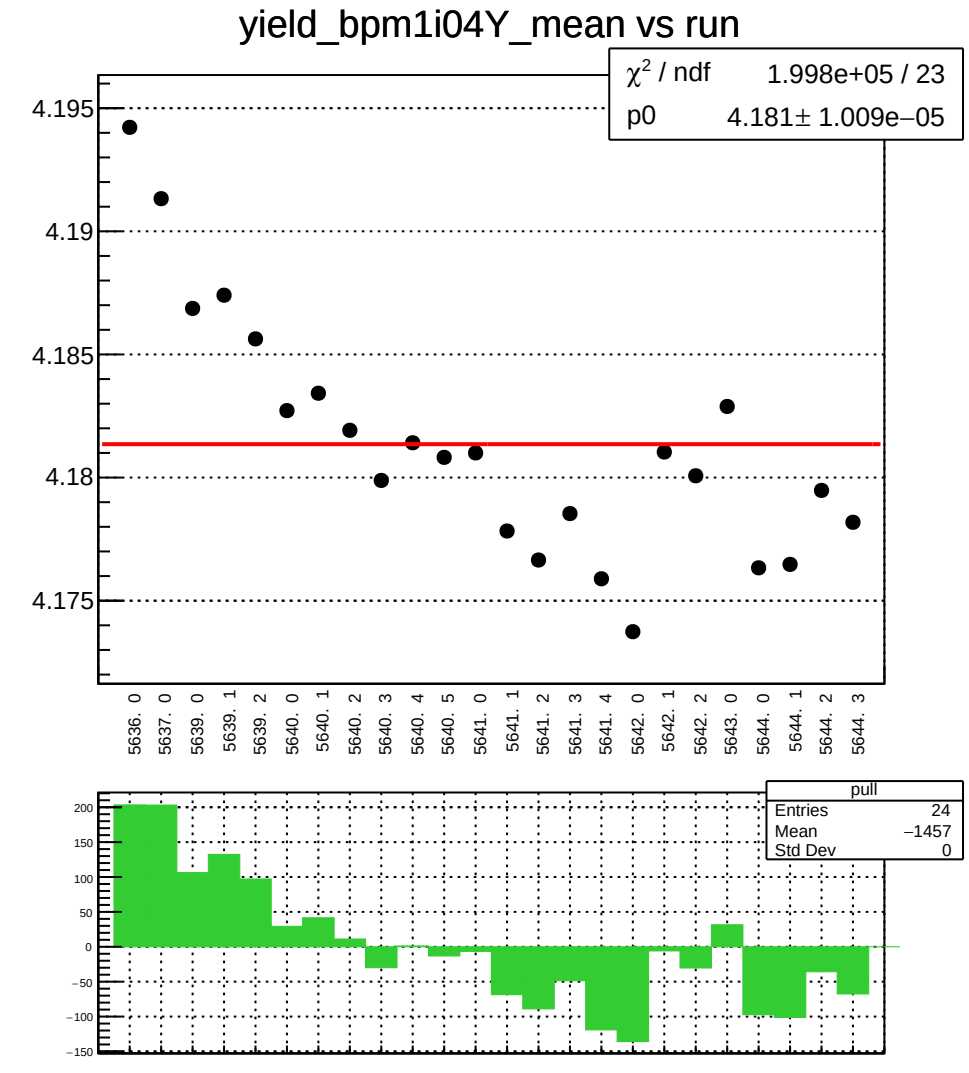

pull1D
Entries 24
Mean 3.598
Std Dev 1.587
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

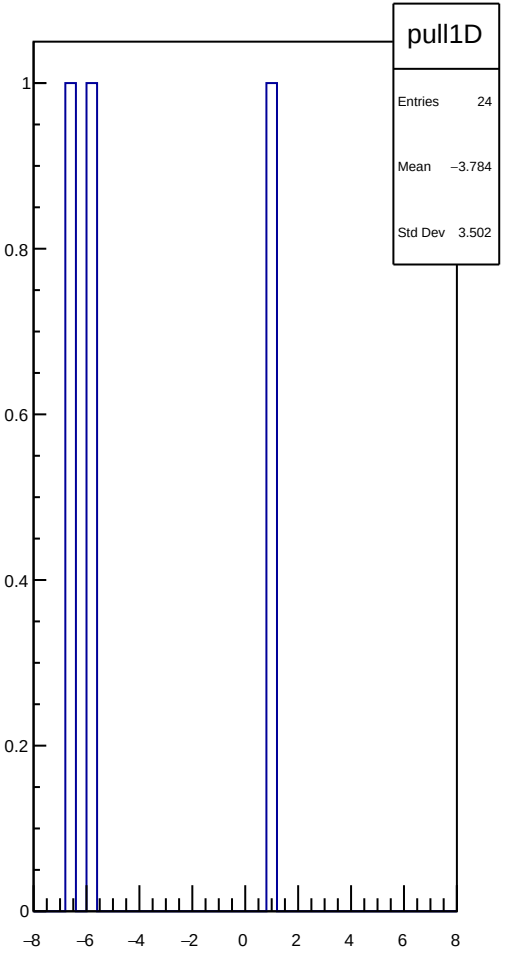

yield_bpm1i02Y_rms vs run
χ² / ndf 1699 / 23
p0 0.007392 ± 1.066e−05
0.0085
0.008
0.0075
0.007
0.0065
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

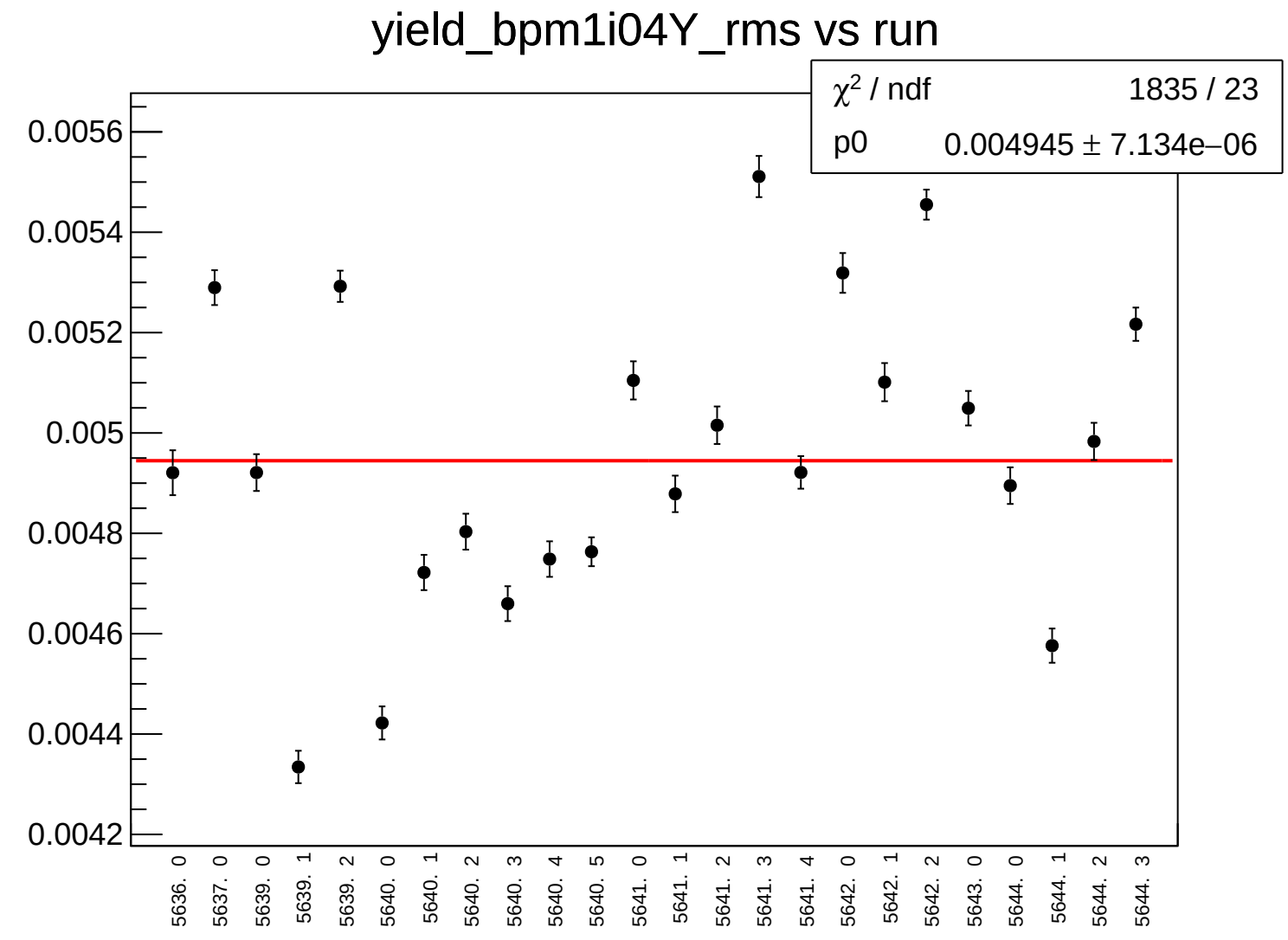

yield_bpm1i04X_mean vs run
χ² / ndf 8.114e+04 / 23
p0 1.504 ± 1.225e−05
1.51
1.508
1.506
1.504
1.502
1.5
1.498
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 129.7
Std Dev 0
100
50
0
−50
−100

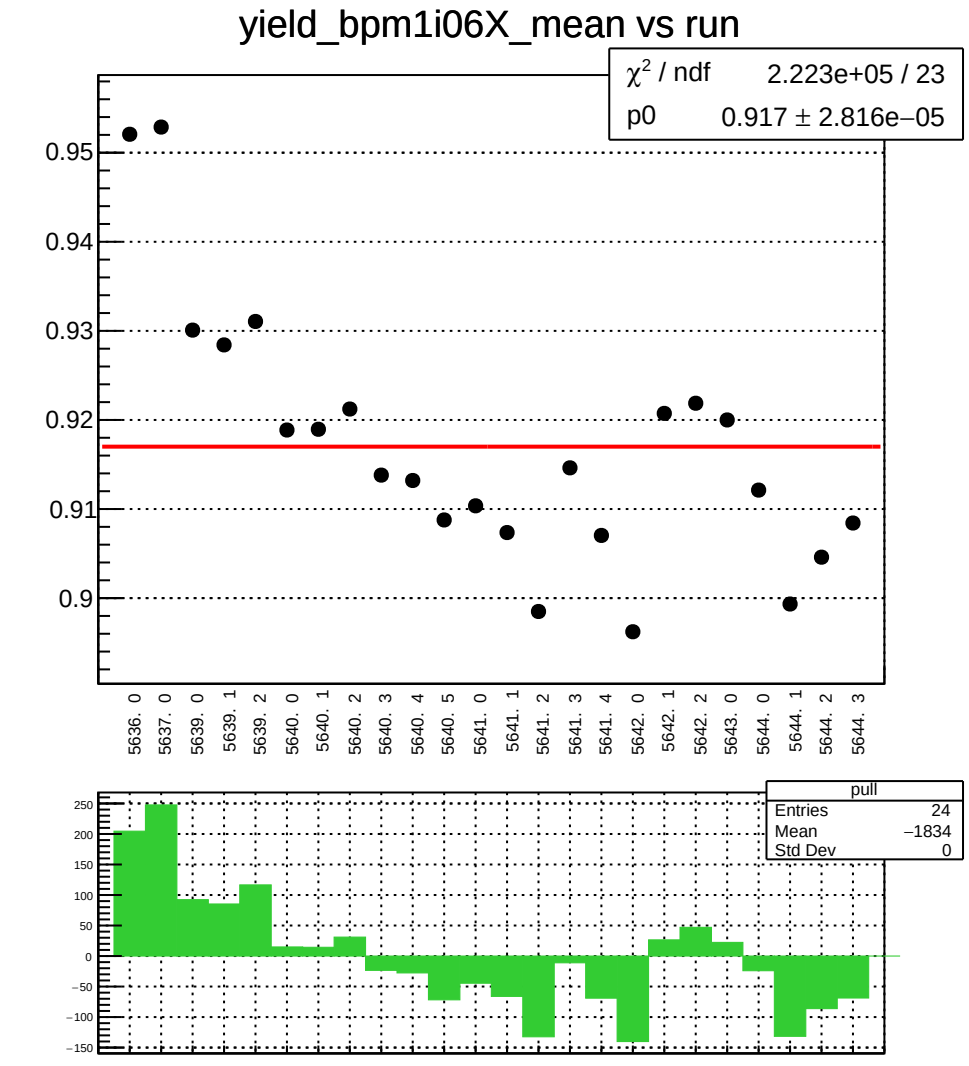

pull1D
Entries 24
Mean 3.983
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

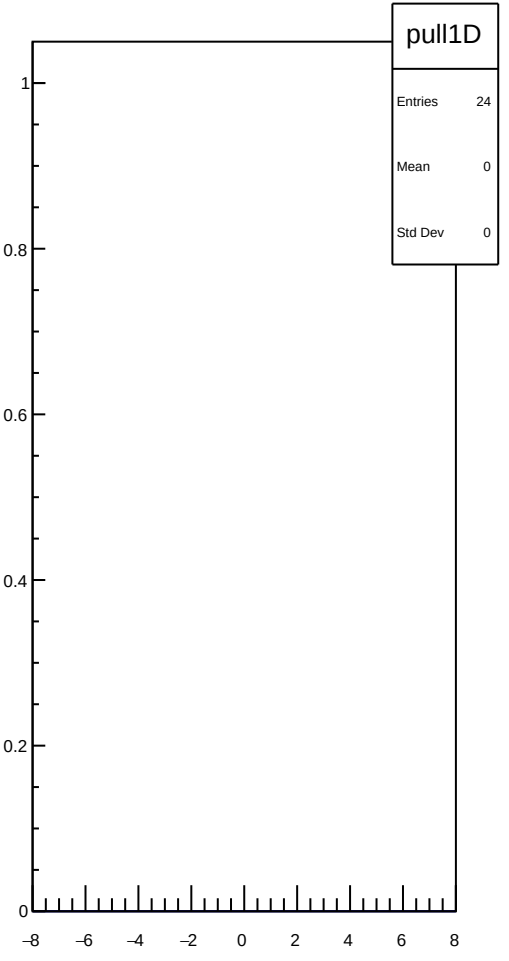

yield_bpm1i04X_rms vs run
χ² / ndf 1561 / 23
p0 0.006006 ± 8.663e−06
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

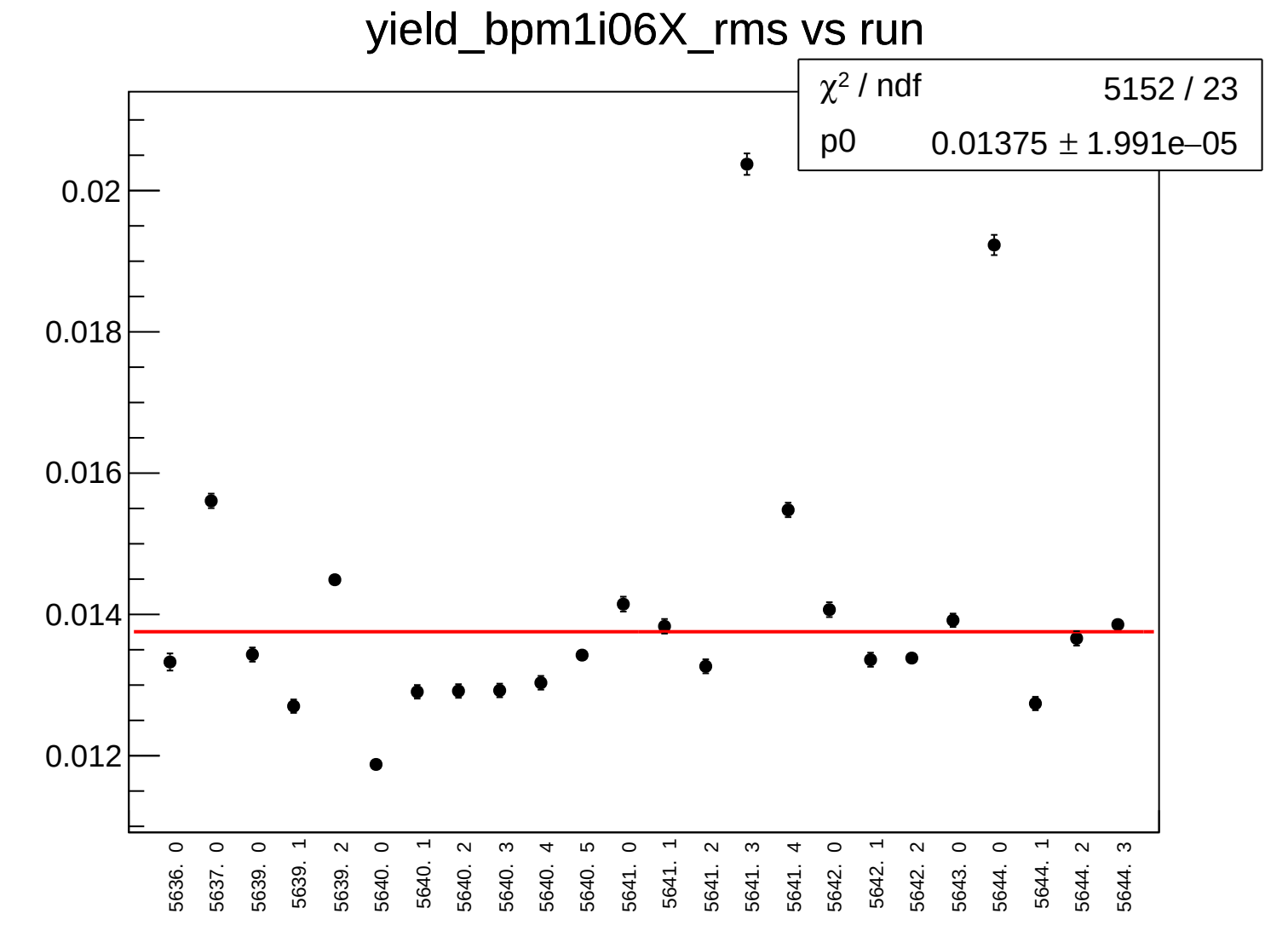

yield_bpm1i04Y_mean vs run
χ² / ndf 1.998e+05 / 23
p0 4.181± 1.009e−05
4.195
4.19
4.185
4.18
4.175
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −1457
Std Dev 0
200
150
100
50
0
−50
−100
−150

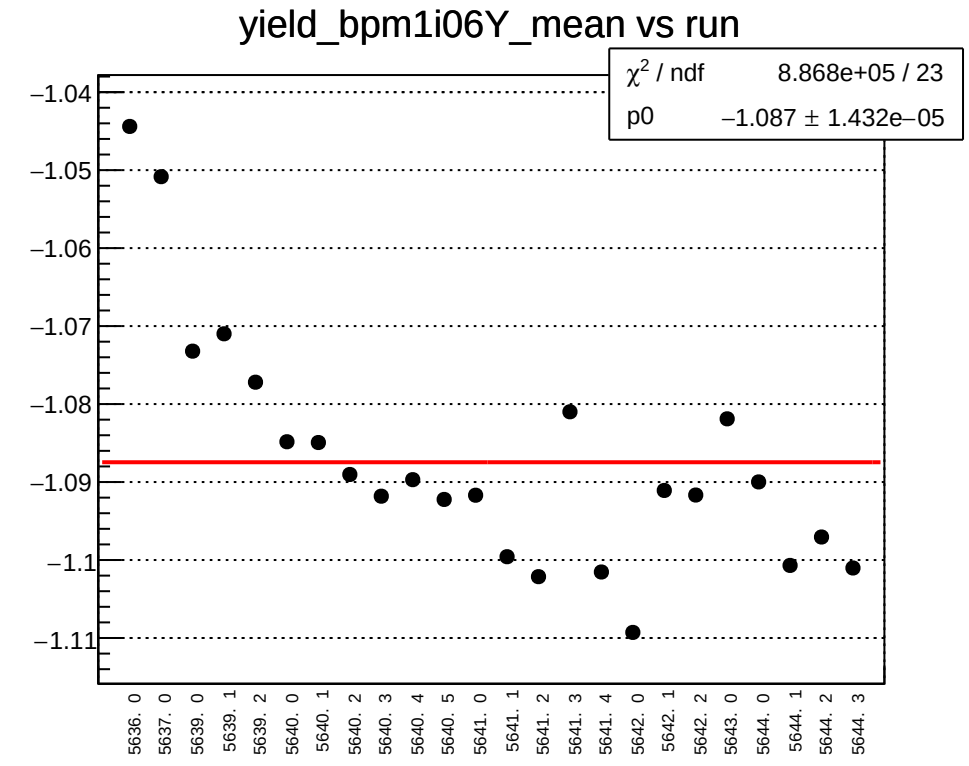

pull1D
Entries 24
Mean −3.784
Std Dev 3.502
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

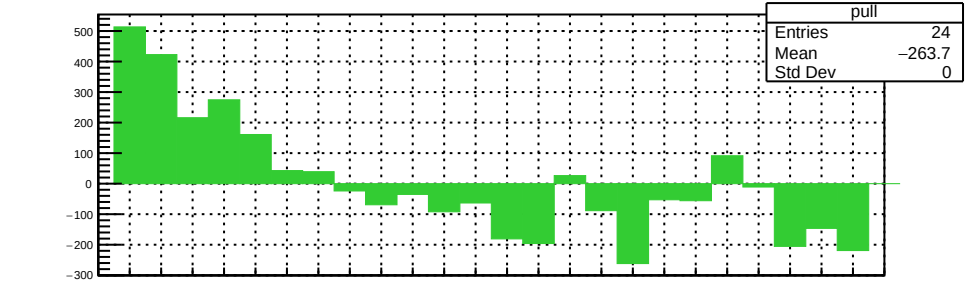

yield_bpm1i04Y_rms vs run
χ² / ndf 1835 / 23
p0 0.004945 ± 7.134e−06
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

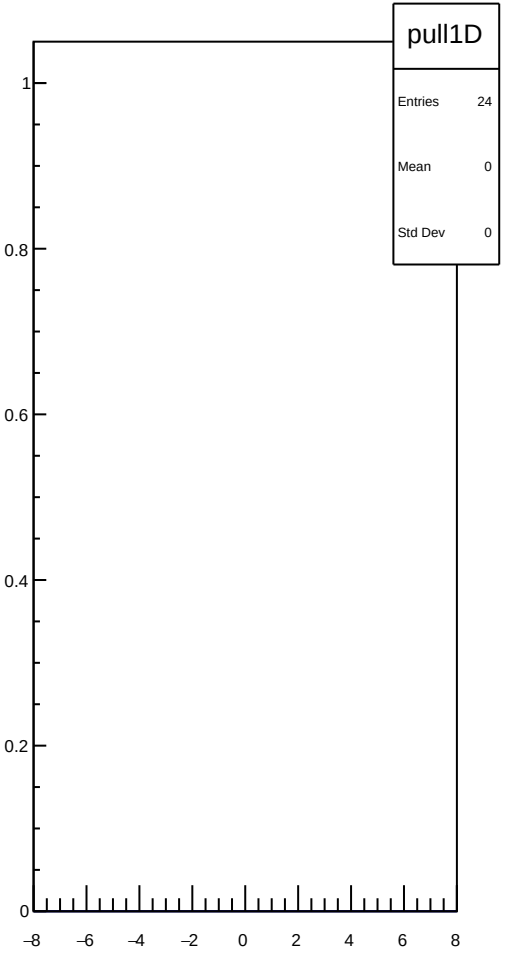

yield_bpm1i06X_mean vs run
χ² / ndf 2.223e+05 / 23
p0 0.917 ± 2.816e−05
0.95
0.94
0.93
0.92
0.91
0.9
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −1834
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

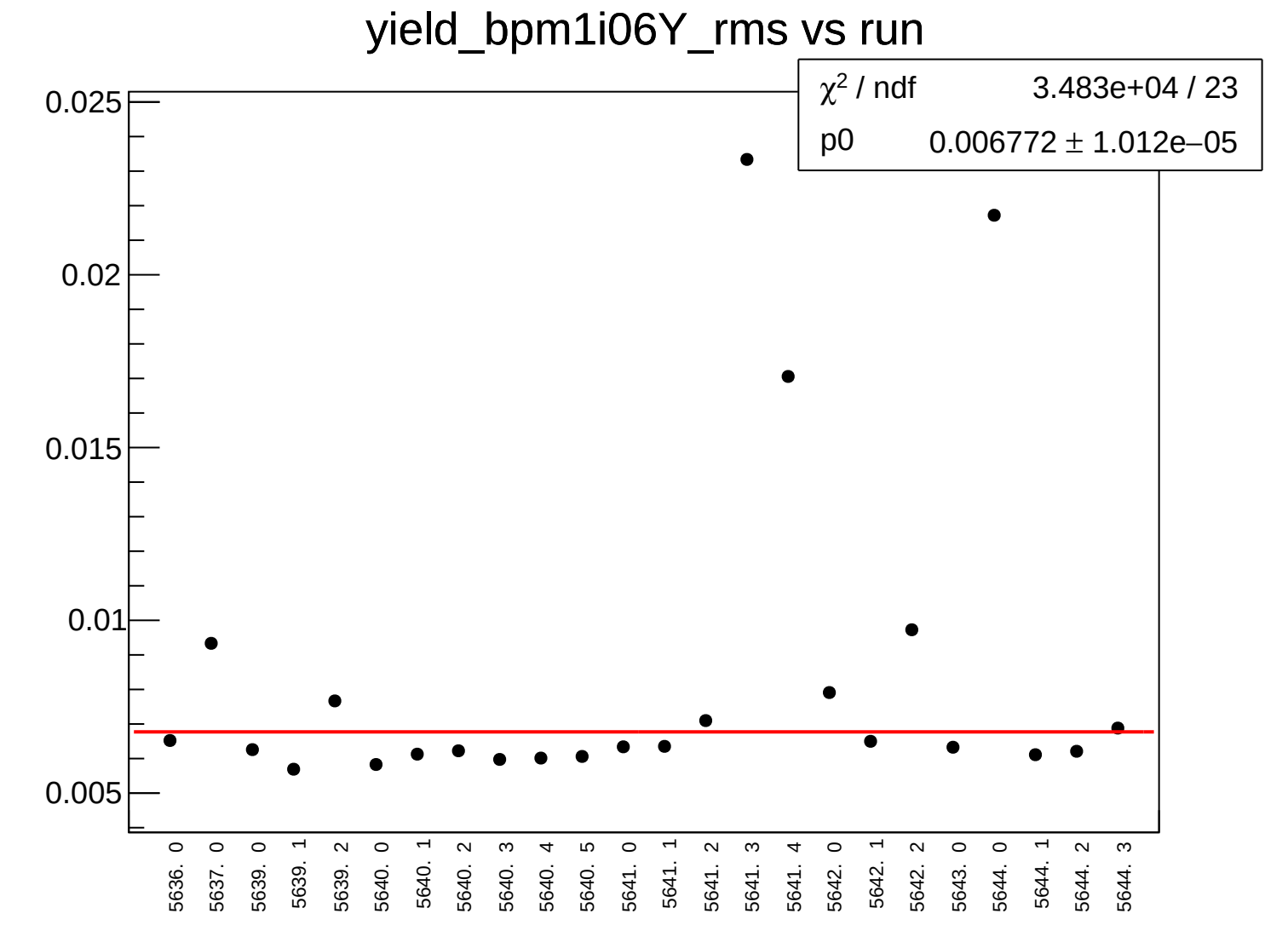

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

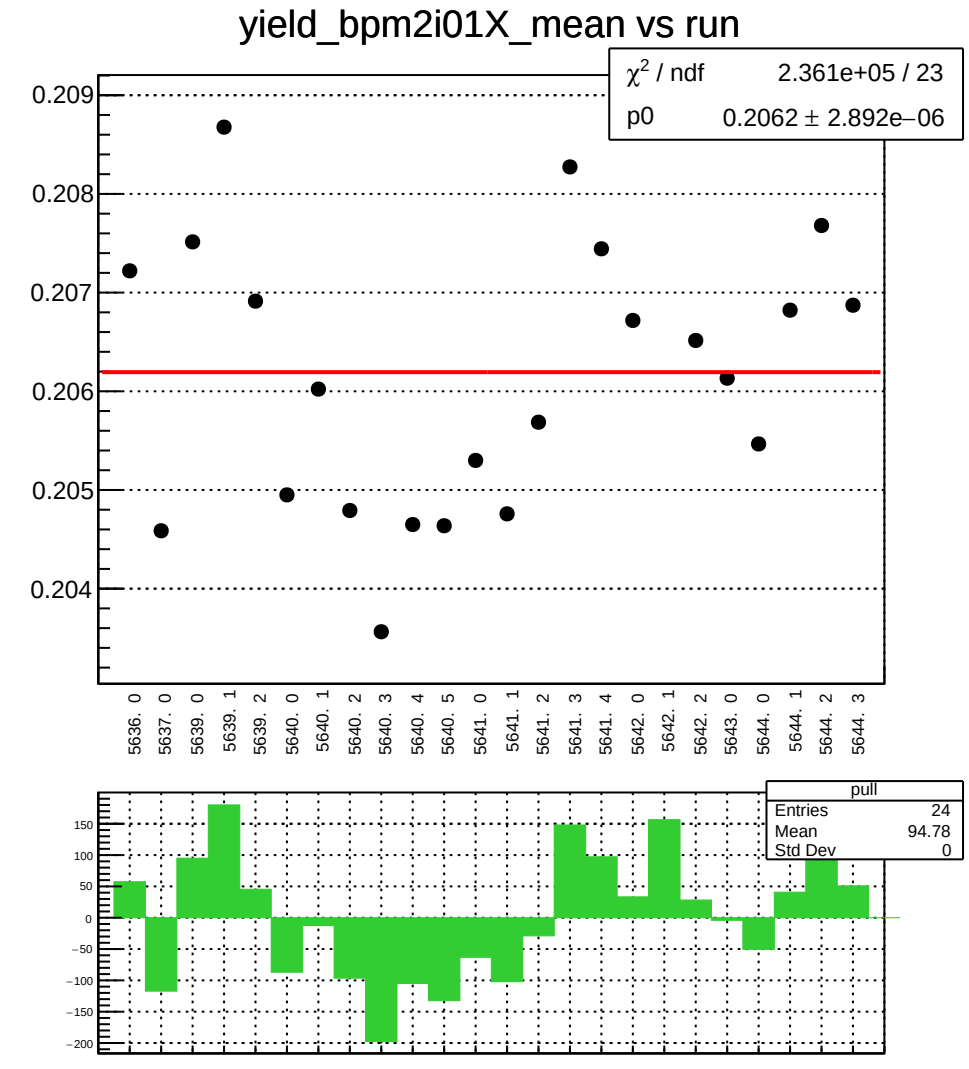

yield_bpm1i06X_rms vs run
χ² / ndf 5152 / 23
p0 0.01375 ± 1.991e–05
0.02
0.018
0.016
0.014
0.012
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

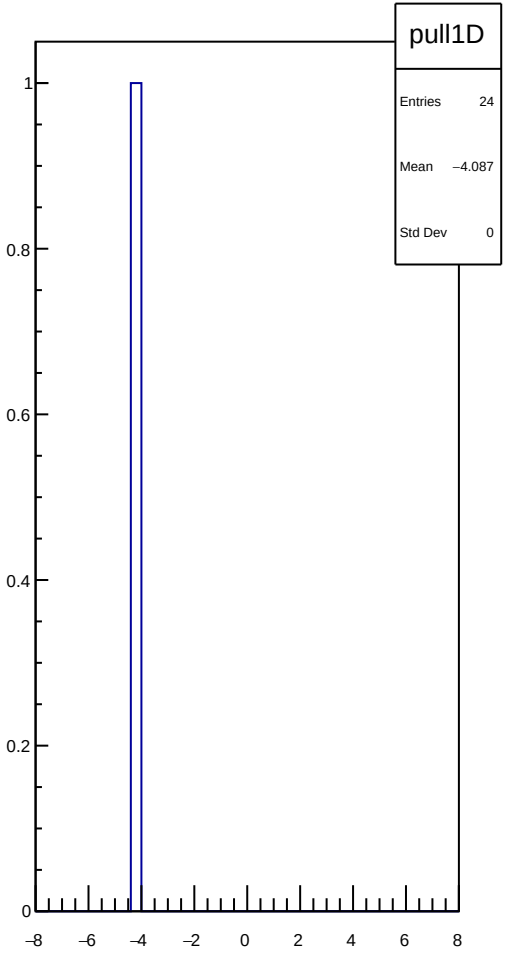

yield_bpm1i06Y_mean vs run
χ² / ndf 8.868e+05 / 23
p0 −1.087 ± 1.432e−05
−1.04
−1.05
−1.06
−1.07
−1.08
−1.09
−1.1
−1.11
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

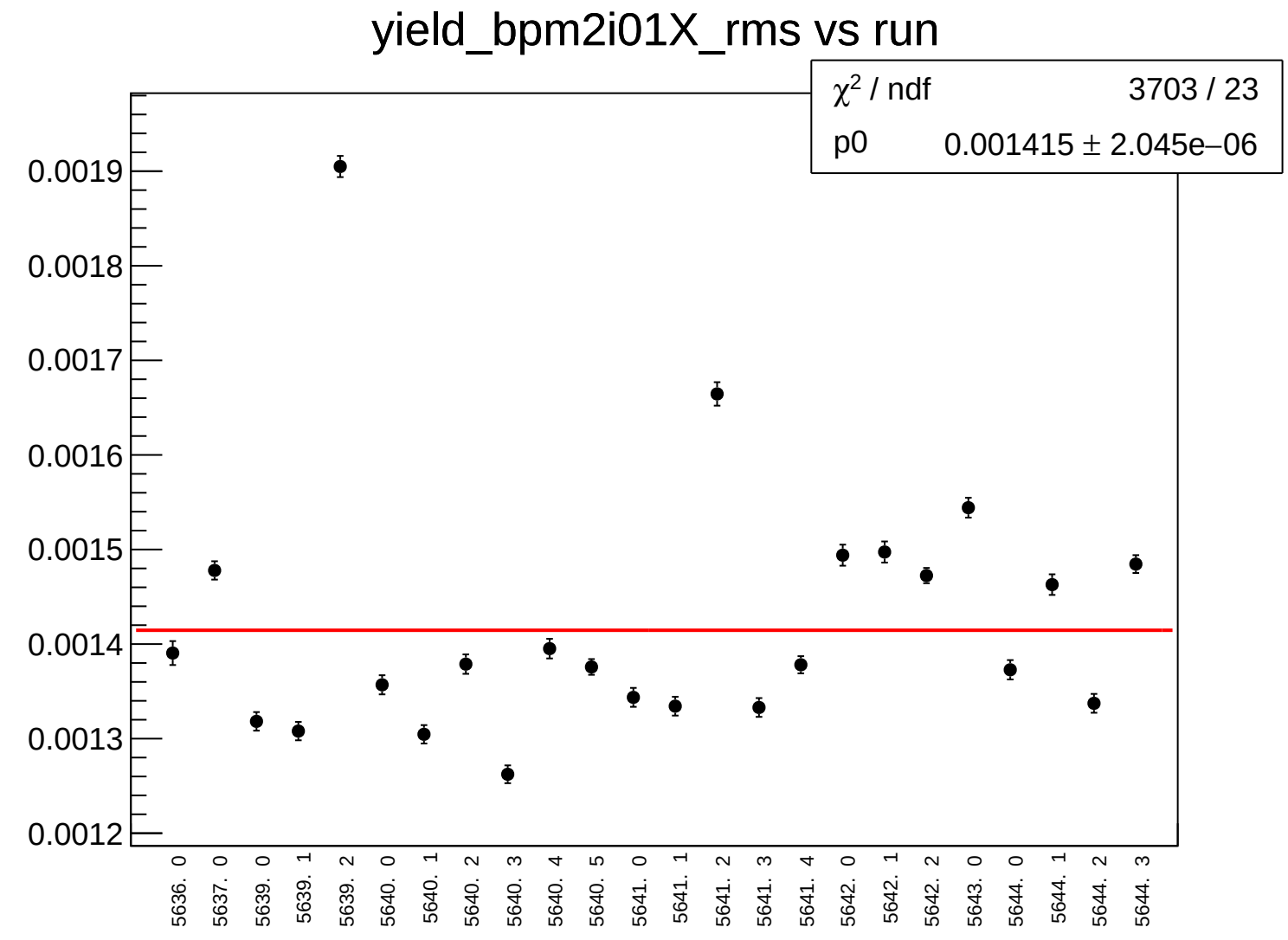

pull
Entries 24
Mean −263.7
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

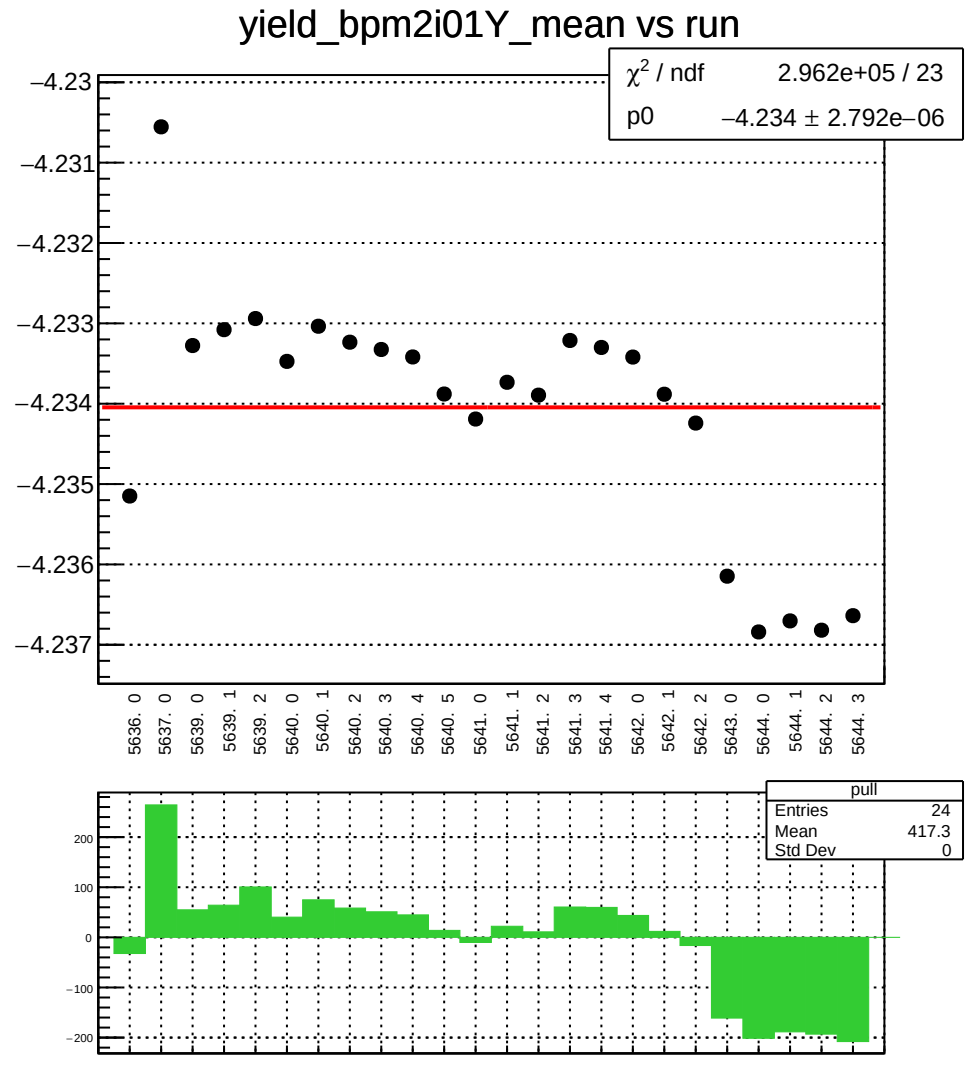

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

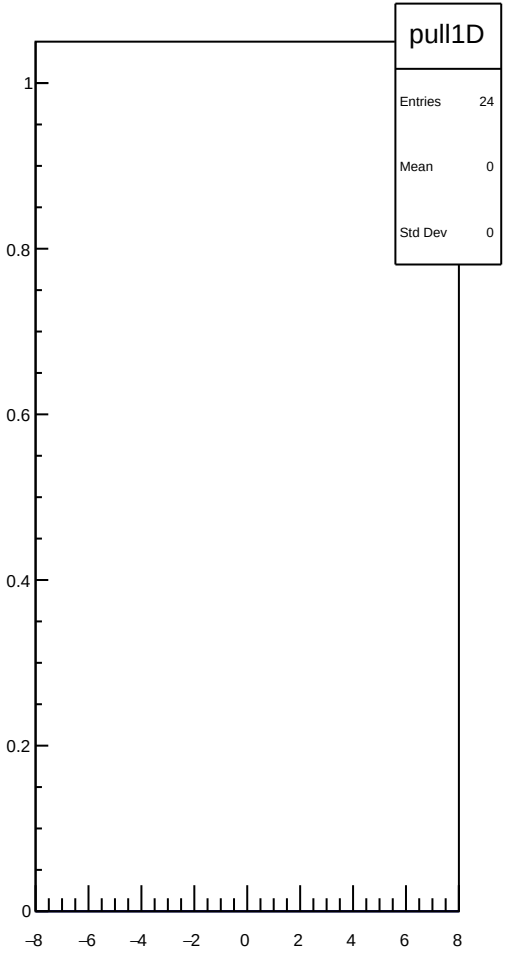

yield_bpm1i06Y_rms vs run
χ² / ndf 3.483e+04 / 23
p0 0.006772 ± 1.012e−05
0.025
0.02
0.015
0.01
0.005
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

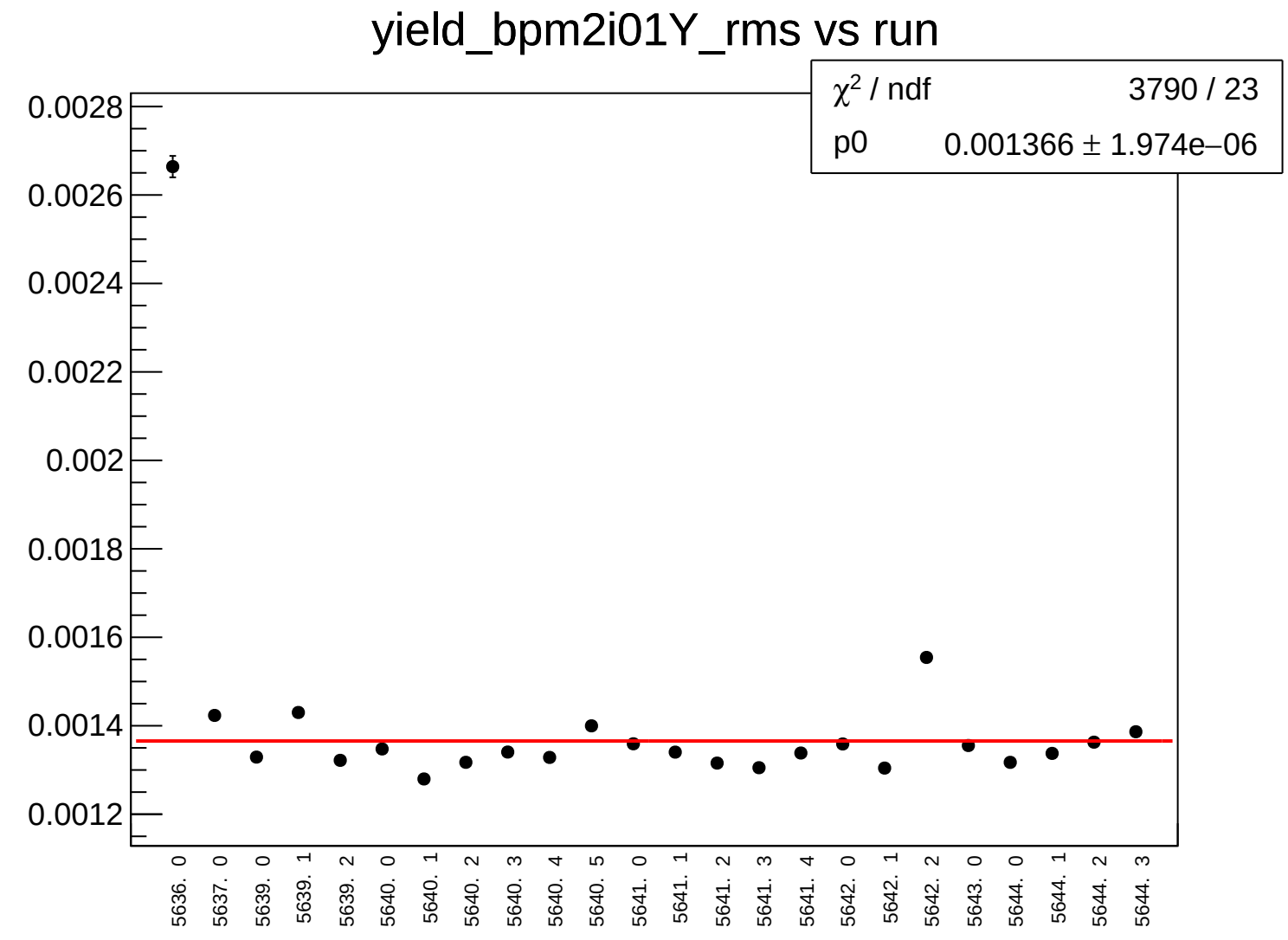

yield_bpm2i01X_mean vs run
χ² / ndf 2.361e+05 / 23
p0 0.2062 ± 2.892e−06
0.209
0.208
0.207
0.206
0.205
0.204
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 94.78
Std Dev 0
150
100
50
0
−50
−100
−150
−200

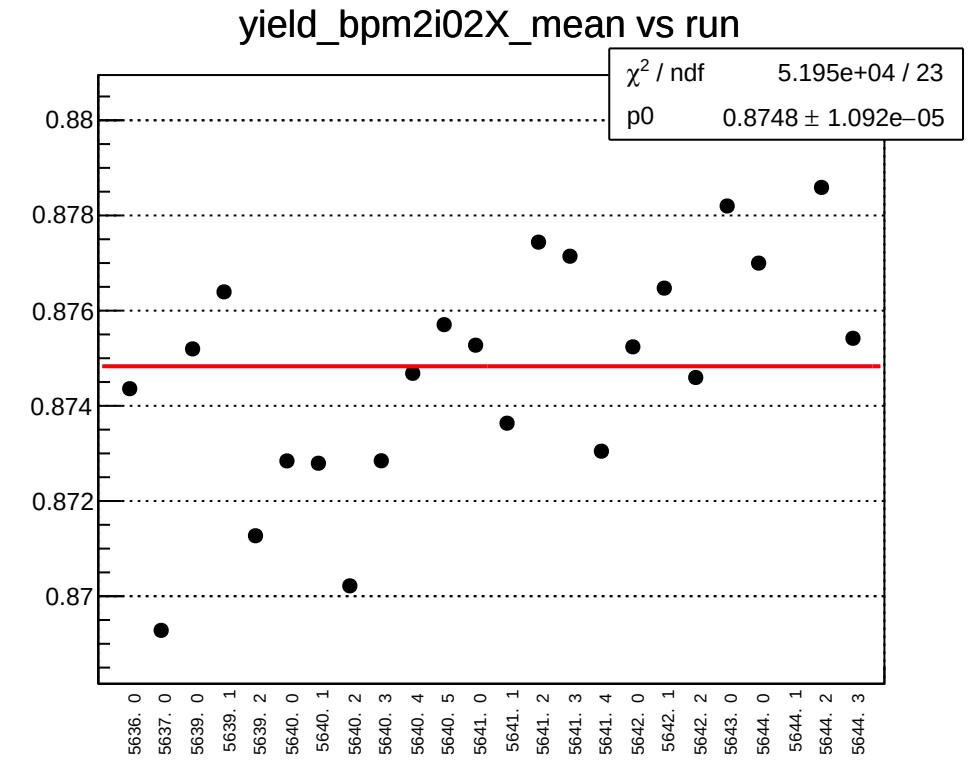

pull1D
Entries 24
Mean −4.087
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

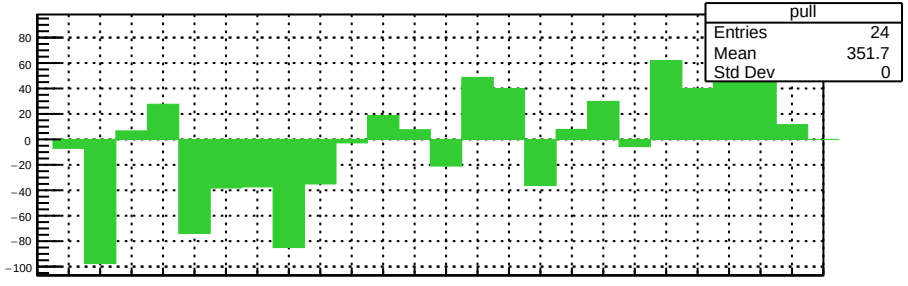

yield_bpm2i01X_rms vs run
χ² / ndf 3703 / 23
p0 0.001415 ± 2.045e−06
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

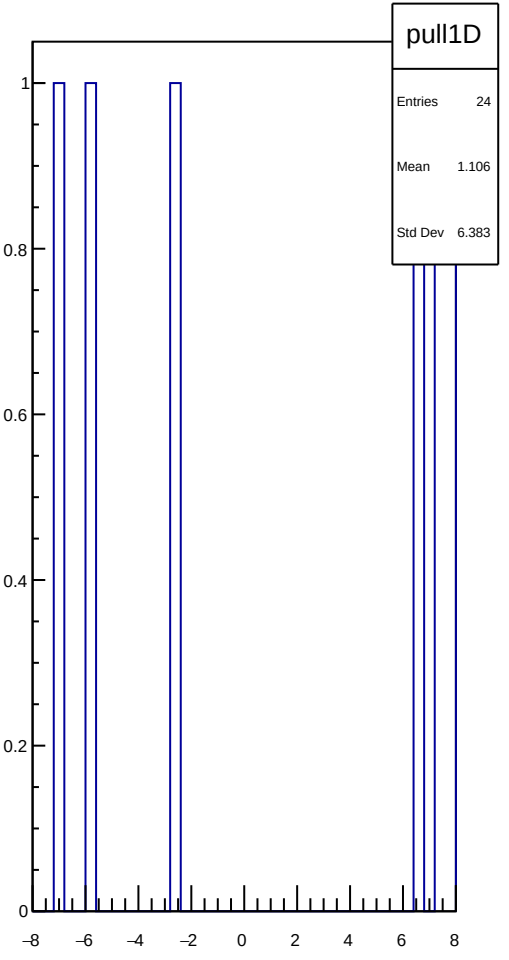

yield_bpm2i01Y_mean vs run
χ² / ndf 2.962e+05 / 23
p0 −4.234 ± 2.792e−06
−4.23
−4.231
−4.232
−4.233
−4.234
−4.235
−4.236
−4.237
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 417.3
Std Dev 0
200
100
0
−100
−200

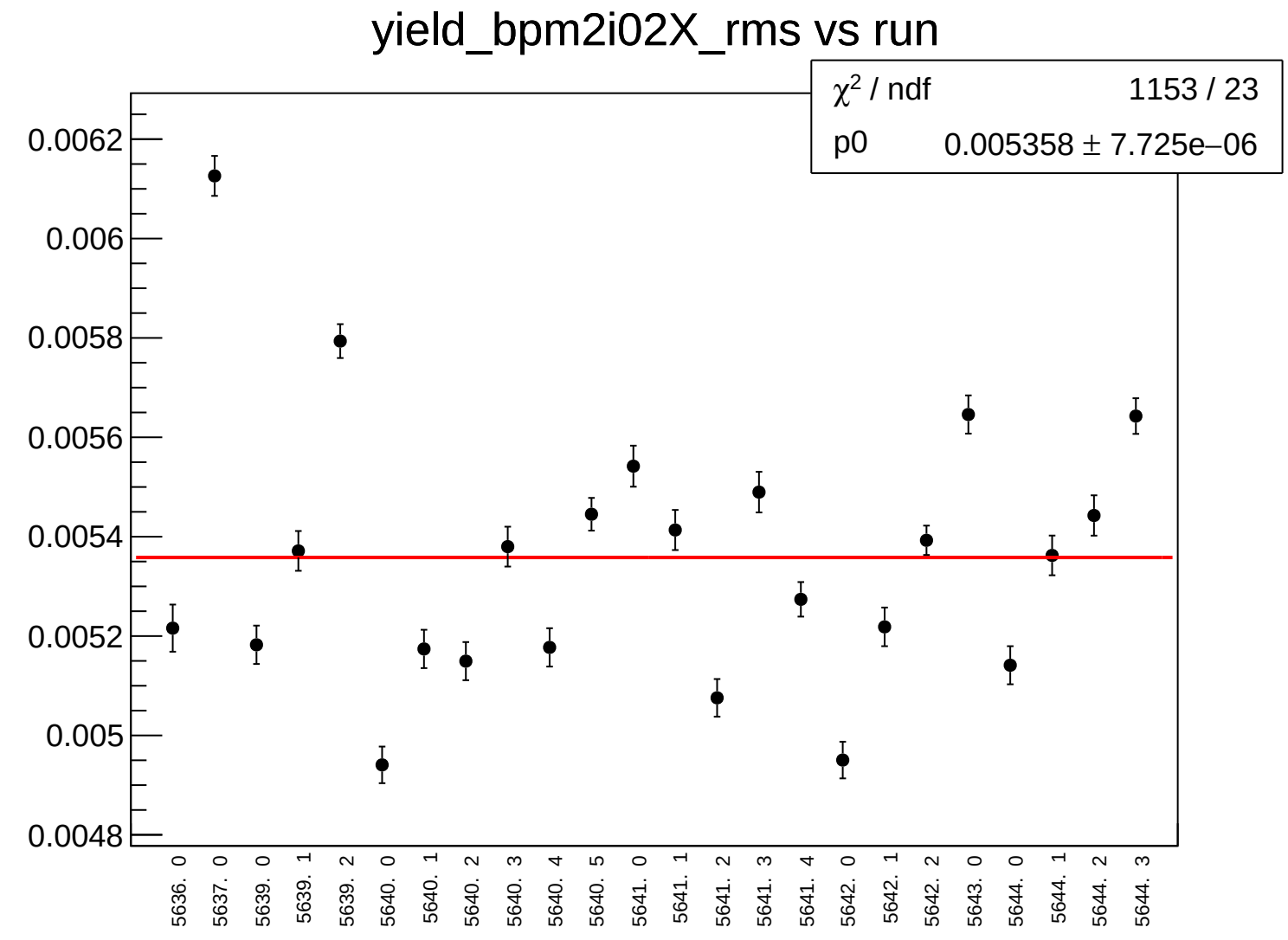

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

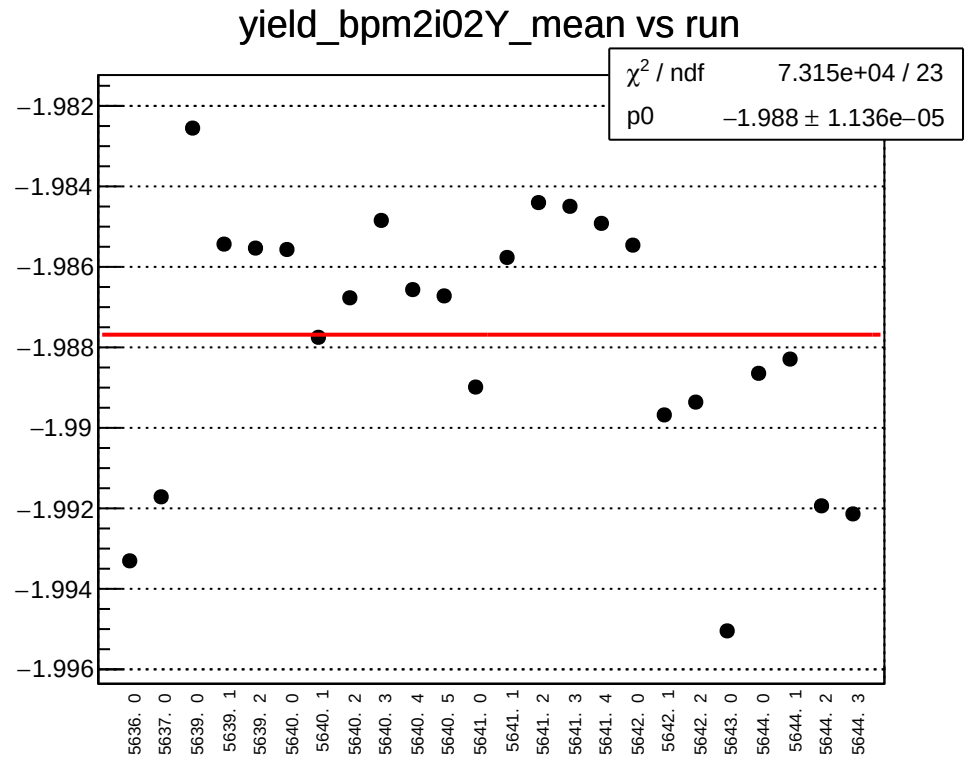

yield_bpm2i01Y_rms vs run
χ² / ndf 3790 / 23
p0 0.001366 ± 1.974e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

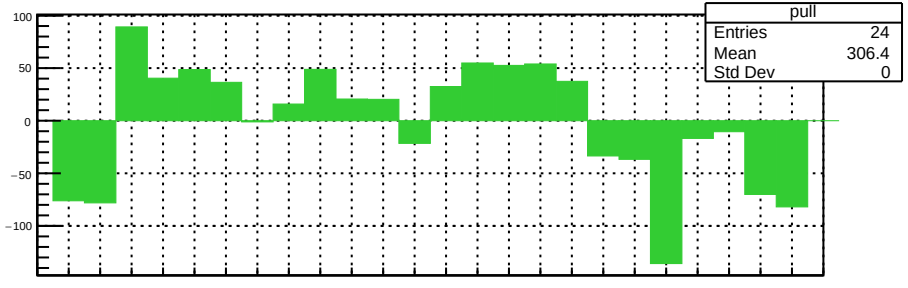

yield_bpm2i02X_mean vs run
χ² / ndf 5.195e+04 / 23
p0 0.8748 ± 1.092e−05
0.88
0.878
0.876
0.874
0.872
0.87
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

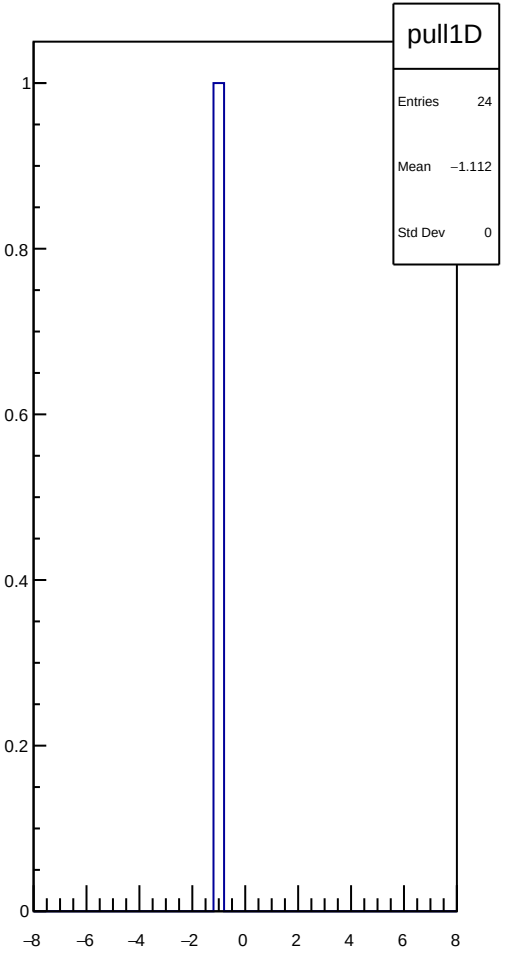

pull
Entries 24
Mean 351.7
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

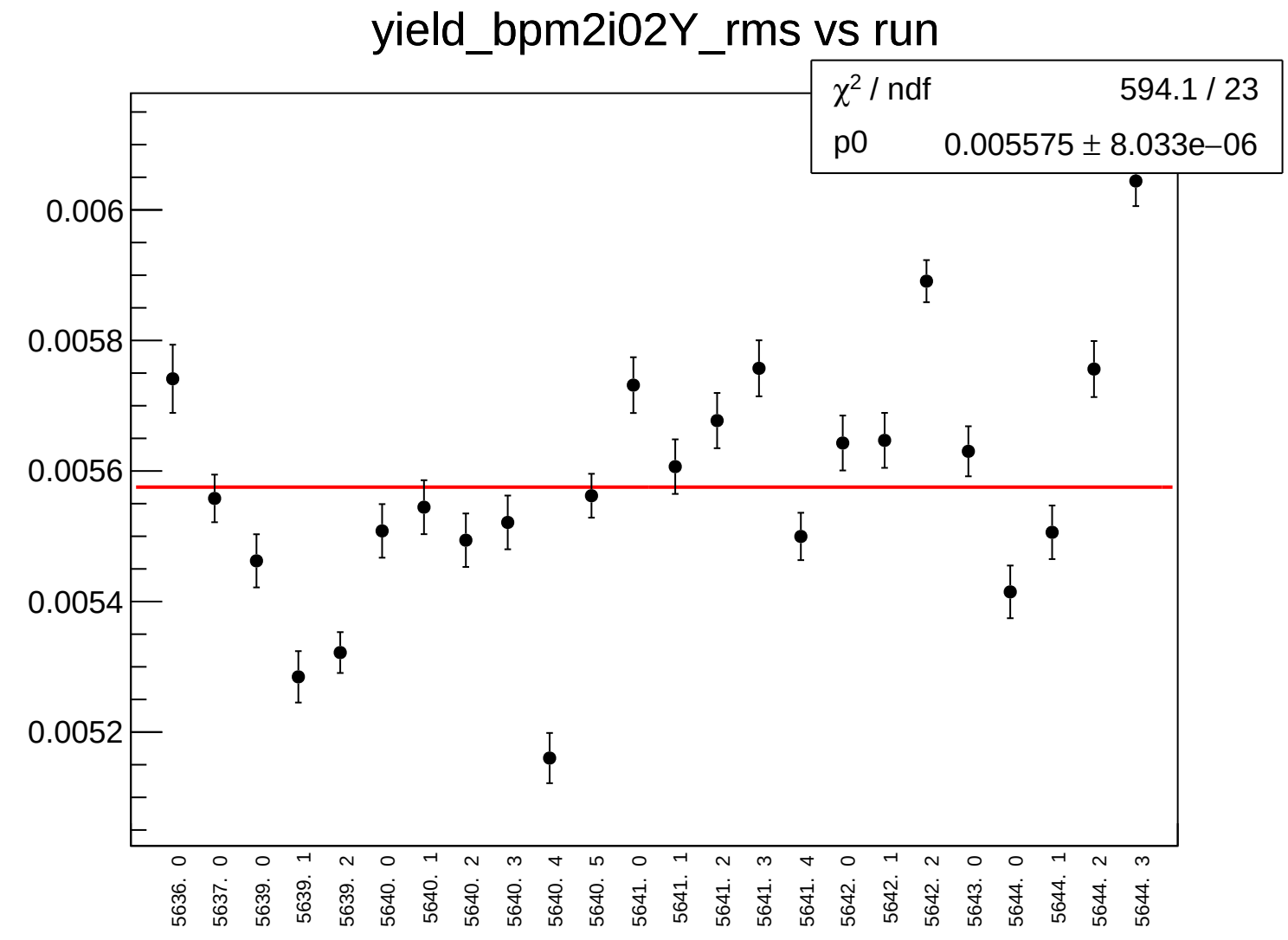

pull1D
Entries 24
Mean 1.106
Std Dev 6.383
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

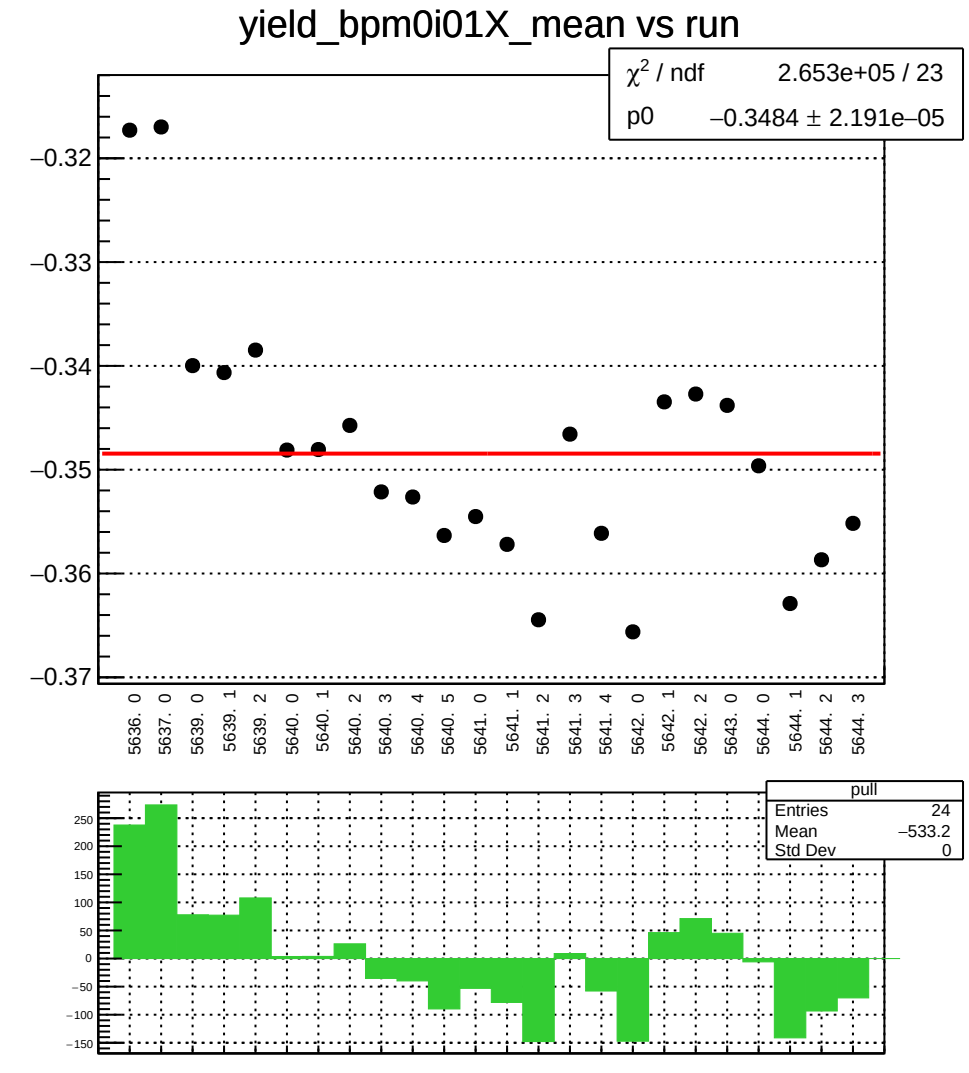

yield_bpm2i02X_rms vs run
χ² / ndf 1153 / 23
p0 0.005358 ± 7.725e−06
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

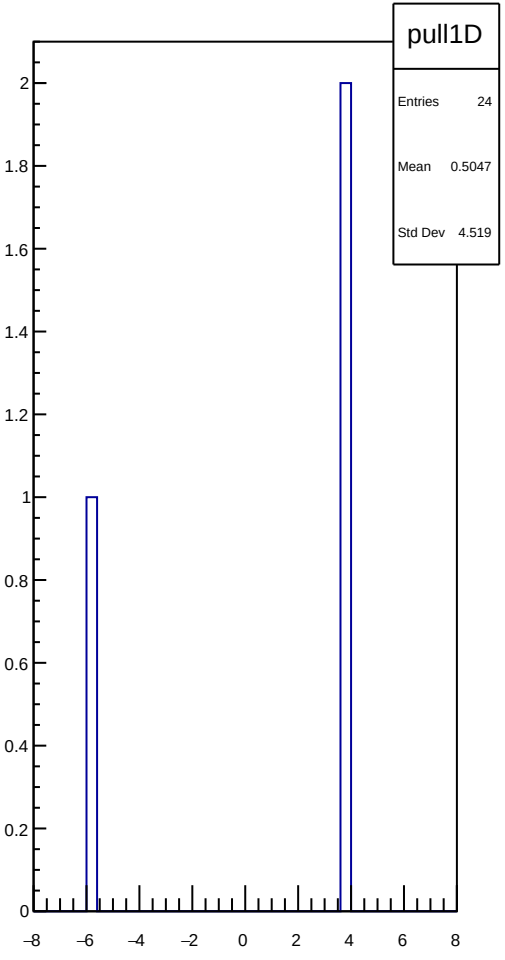

yield_bpm2i02Y_mean vs run
χ² / ndf 7.315e+04 / 23
p0 −1.988 ± 1.136e−05
−1.982
−1.984
−1.986
−1.988
−1.99
−1.992
−1.994
−1.996
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

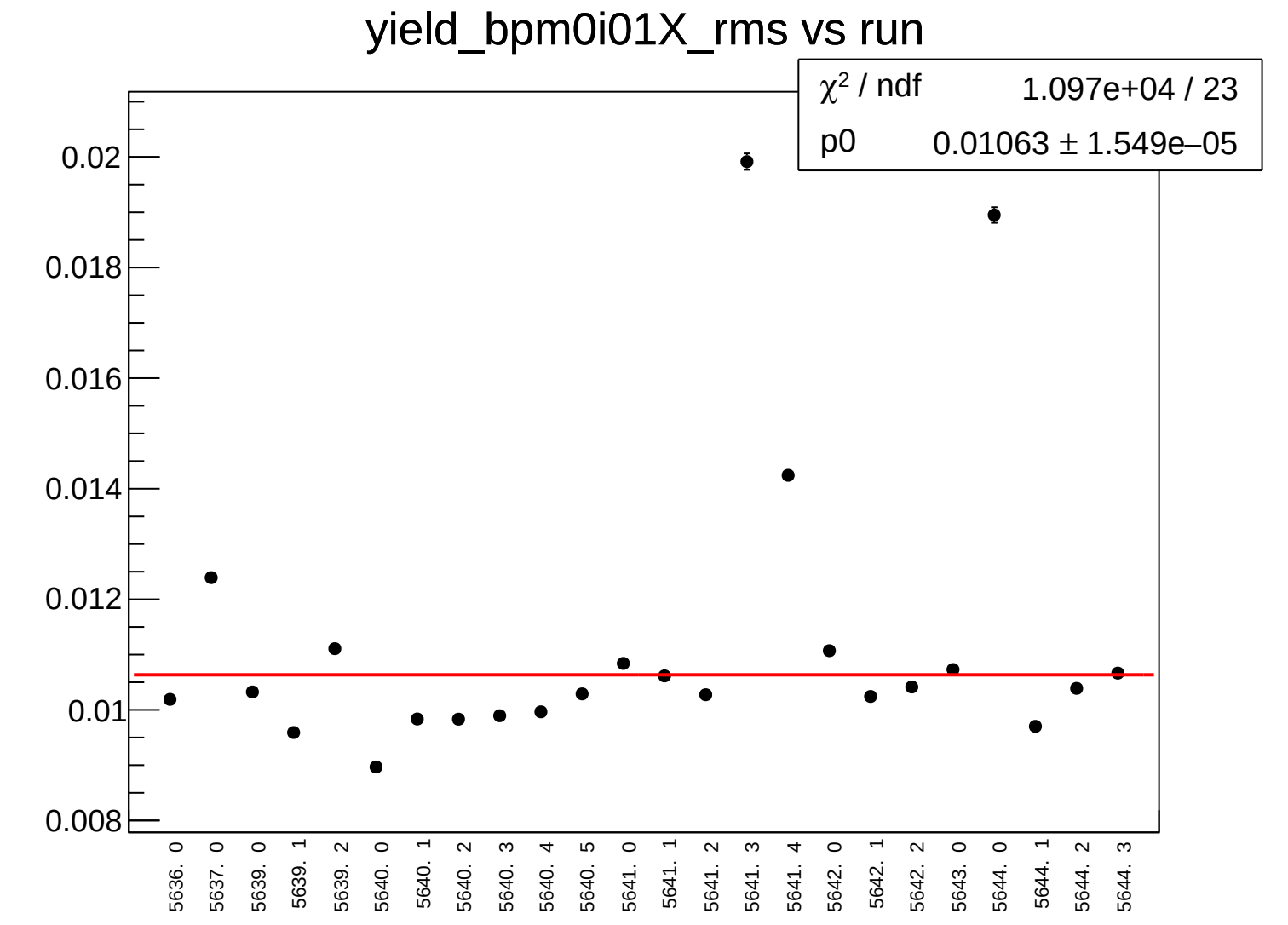

pull
Entries 24
Mean 306.4
Std Dev 0
100
50
0
−50
−100

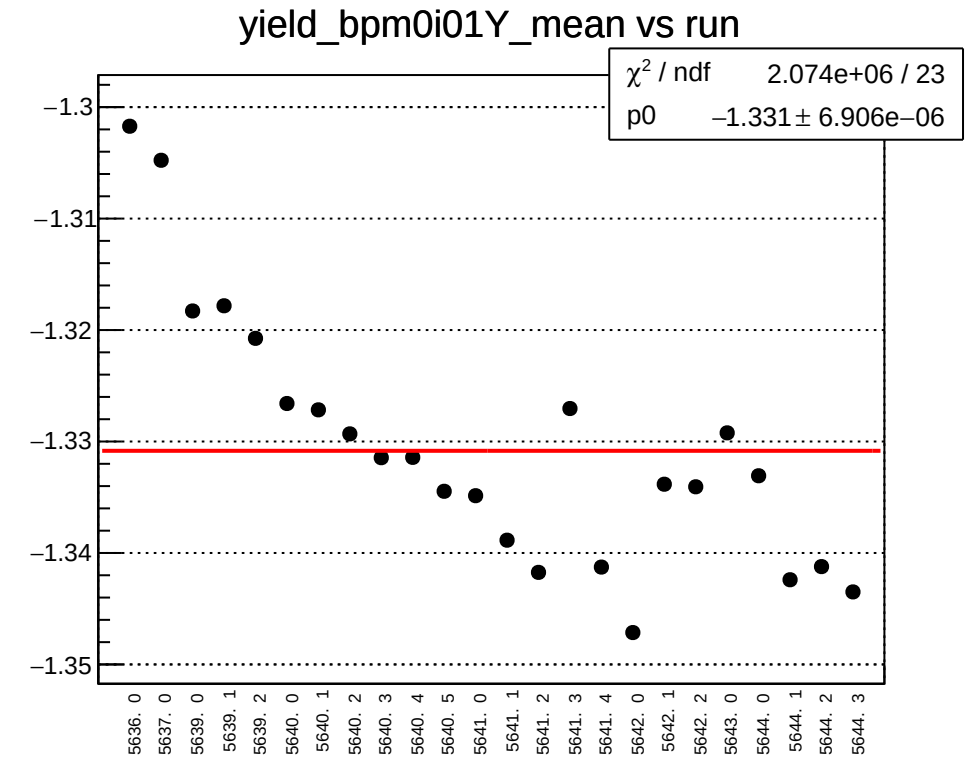

pull1D
Entries 24
Mean −1.112
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

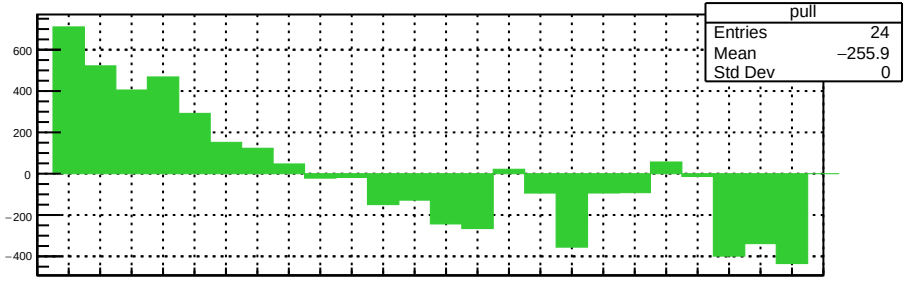

yield_bpm2i02Y_rms vs run
χ² / ndf 594.1 / 23
p0 0.005575 ± 8.033e−06
0.006
0.0058
0.0056
0.0054
0.0052
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

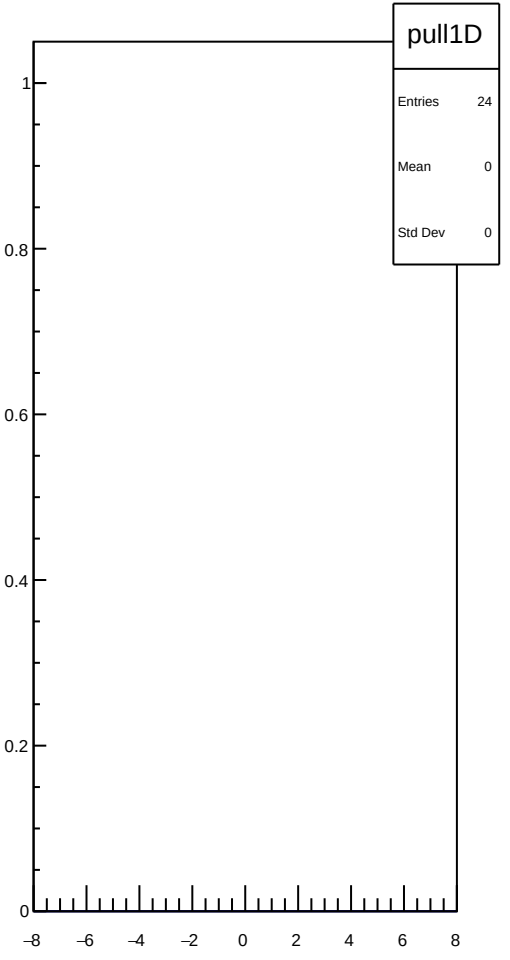

yield_bpm0i01X_mean vs run
χ² / ndf 2.653e+05 / 23
p0 −0.3484 ± 2.191e−05
−0.32
−0.33
−0.34
−0.35
−0.36
−0.37
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −533.2
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

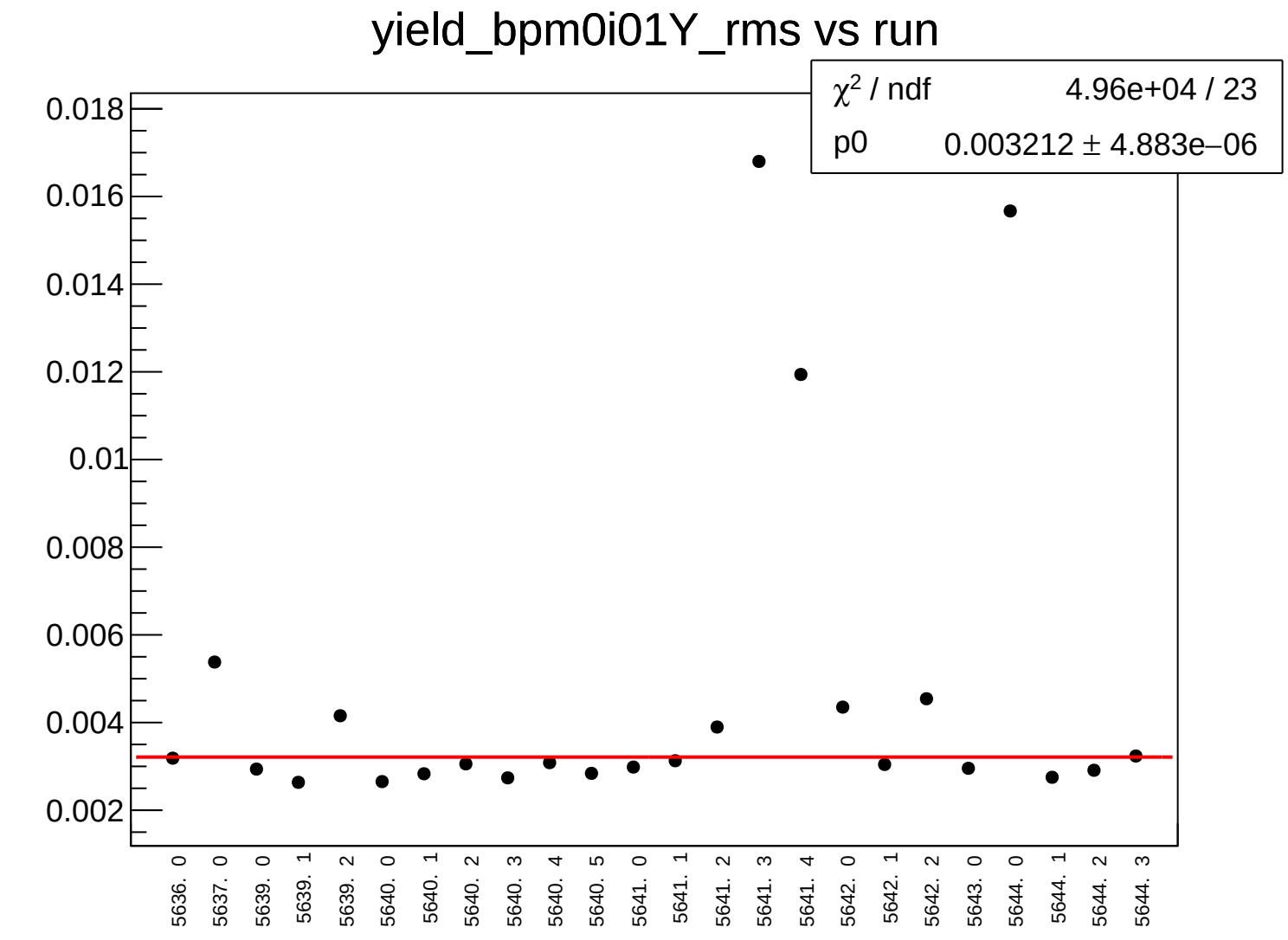

pull1D
Entries 24
Mean 0.5047
Std Dev 4.519
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

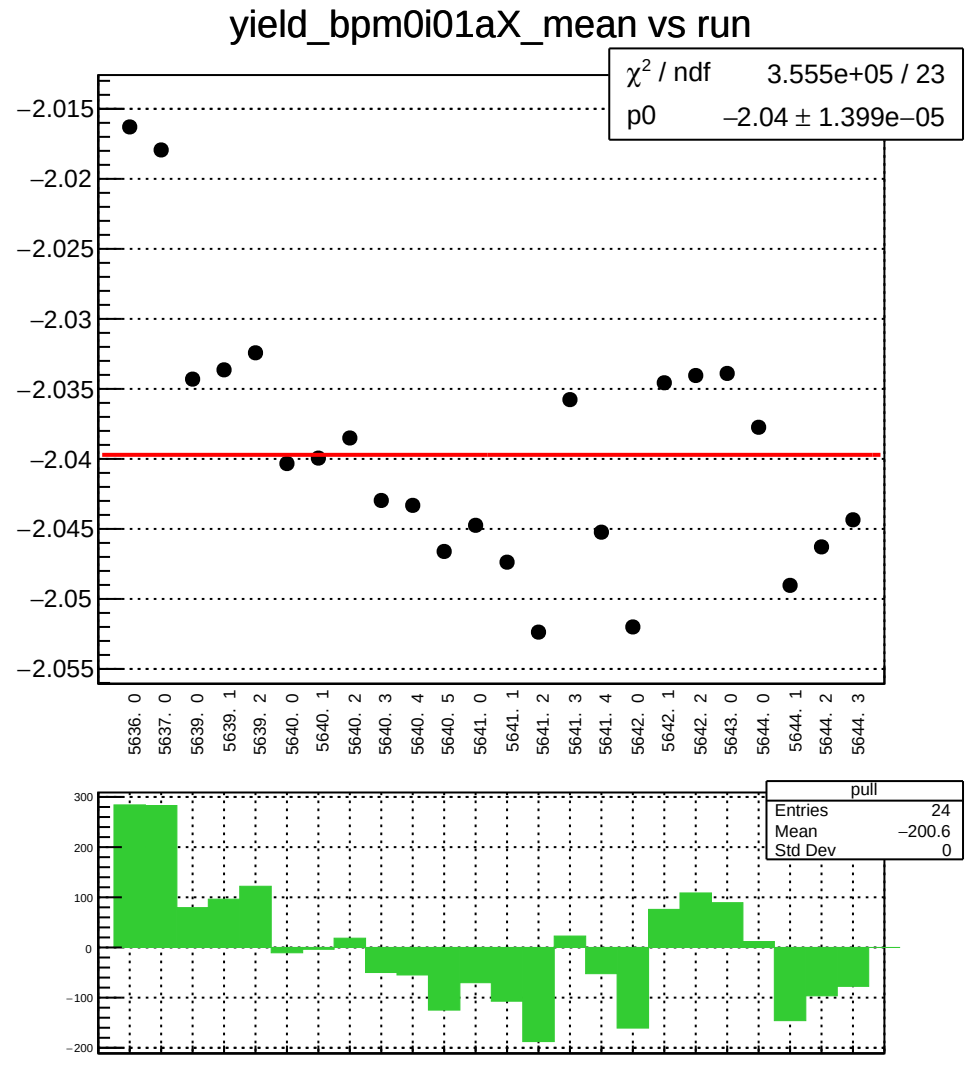

yield_bpm0i01X_rms vs run
χ² / ndf 1.097e+04 / 23
p0 0.01063 ± 1.549e–05
0.02
0.018
0.016
0.014
0.012
0.01
0.008
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

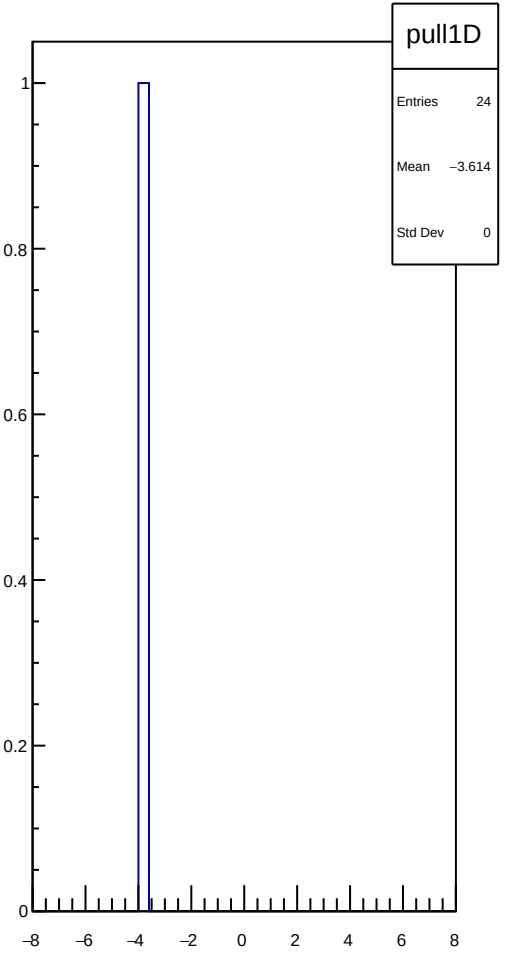

yield_bpm0i01Y_mean vs run
χ² / ndf 2.074e+06 / 23
p0 −1.331 ± 6.906e−06
−1.3
−1.31
−1.32
−1.33
−1.34
−1.35
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

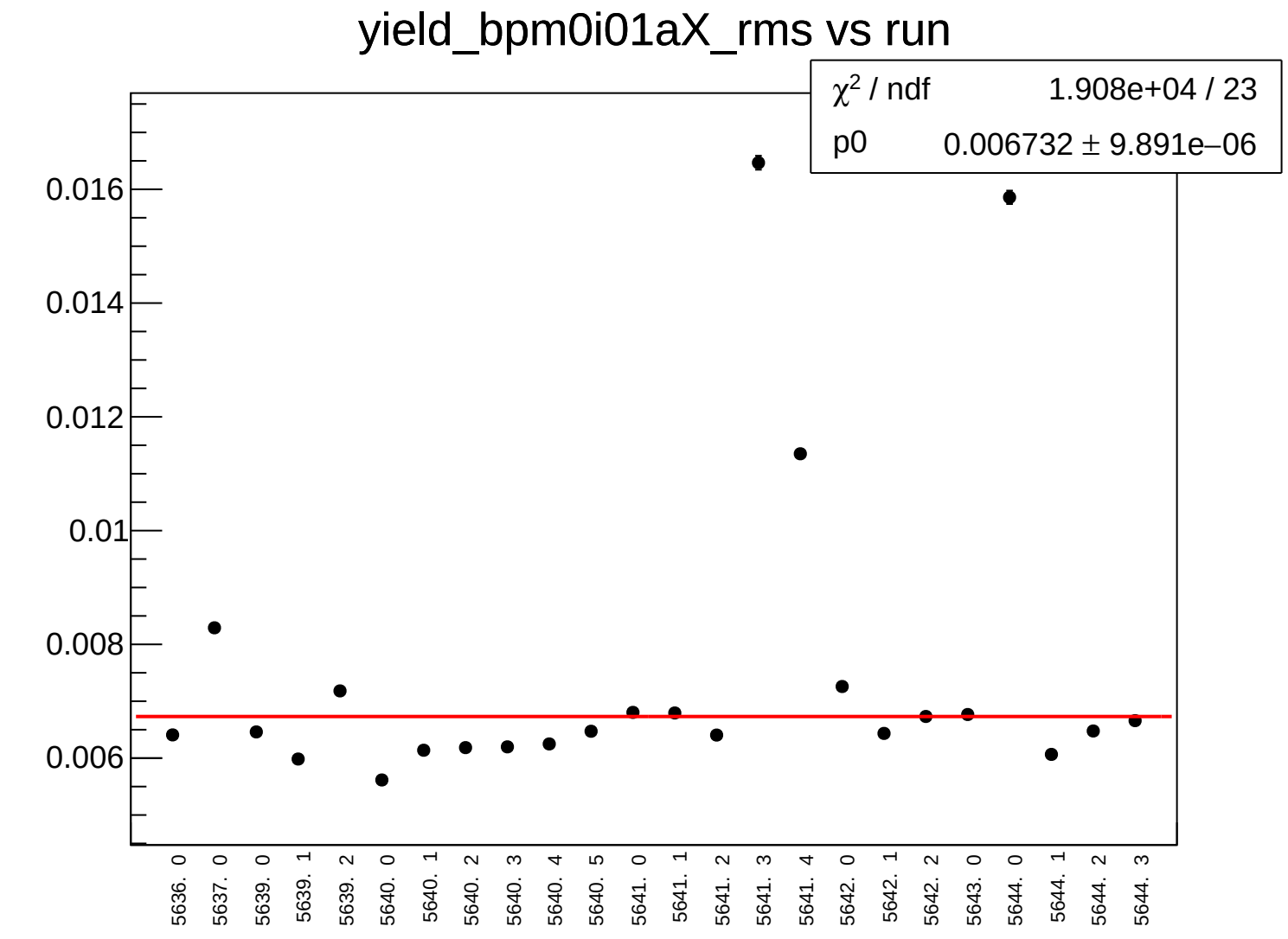

pull
Entries 24
Mean −255.9
Std Dev 0
600
400
200
0
−200
−400

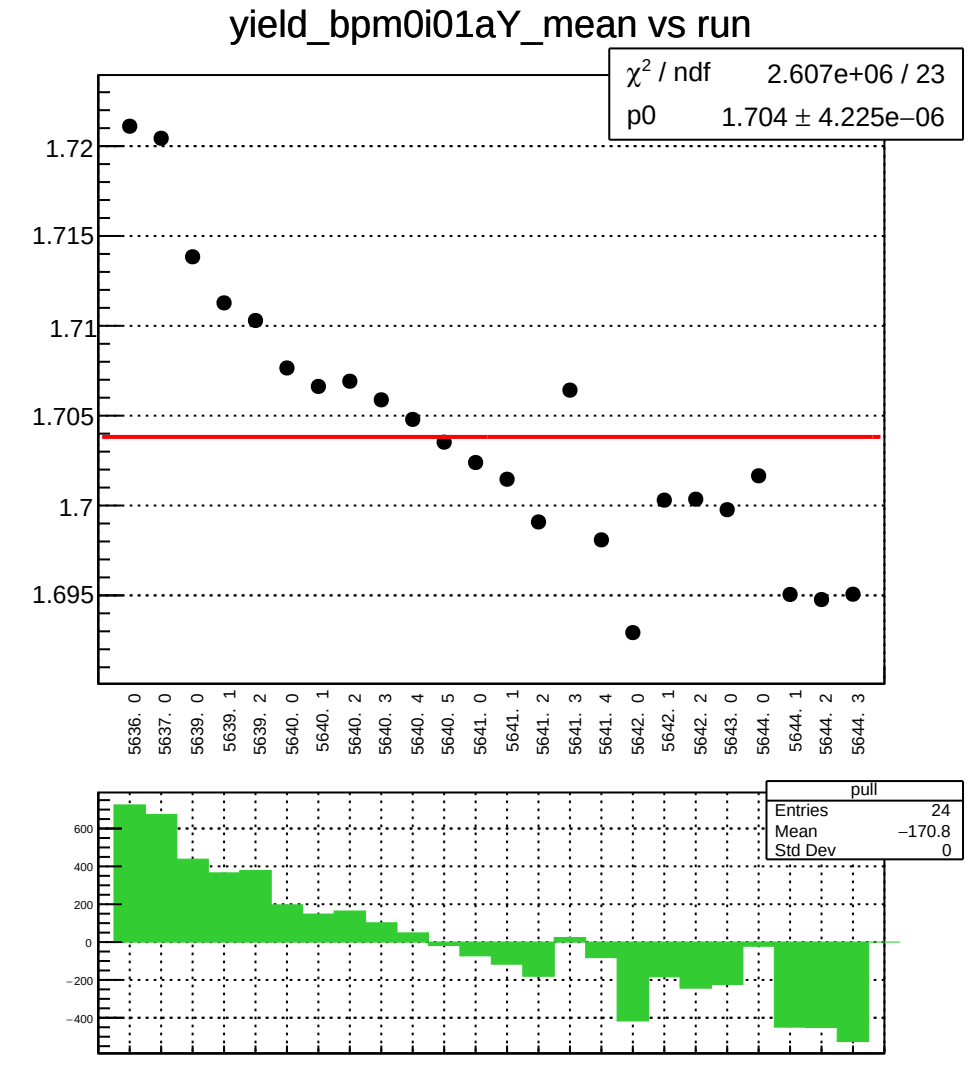

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

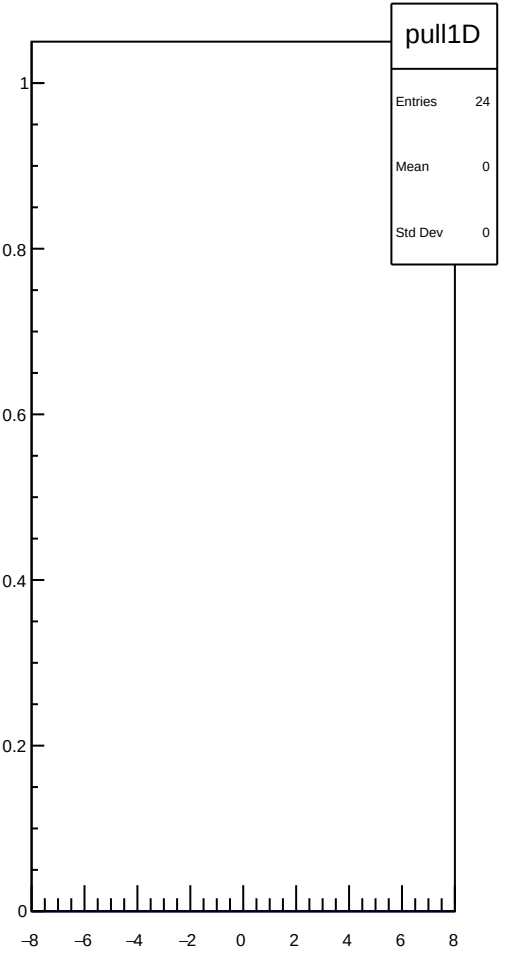

yield_bpm0i01Y_rms vs run
χ² / ndf 4.96e+04 / 23
p0 0.003212 ± 4.883e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

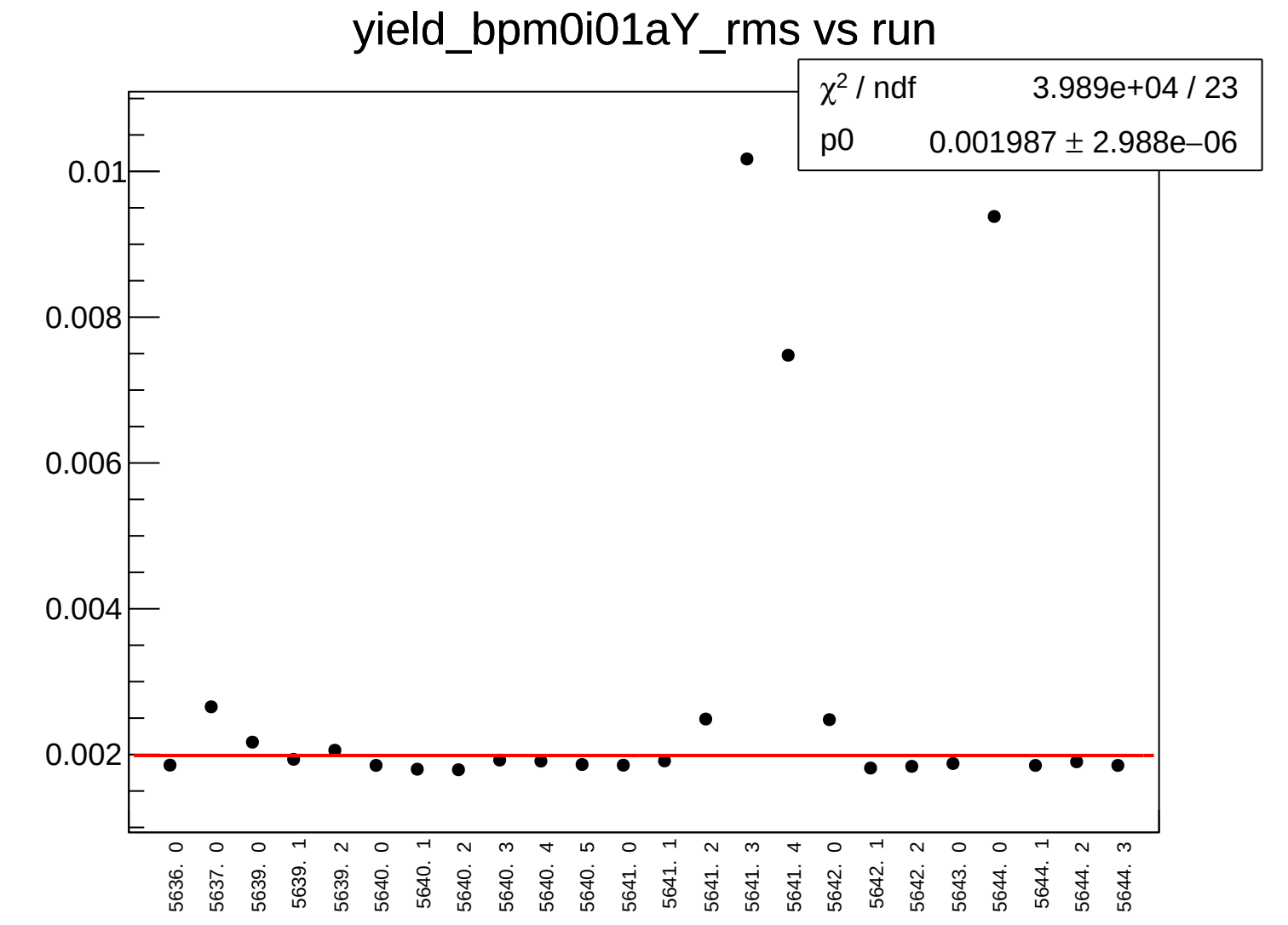

yield_bpm0i01aX_mean vs run
χ² / ndf 3.555e+05 / 23
p0 −2.04 ± 1.399e−05
−2.015
−2.02
−2.025
−2.03
−2.035
−2.04
−2.045
−2.05
−2.055
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −200.6
Std Dev 0
300
200
100
0
−100
−200

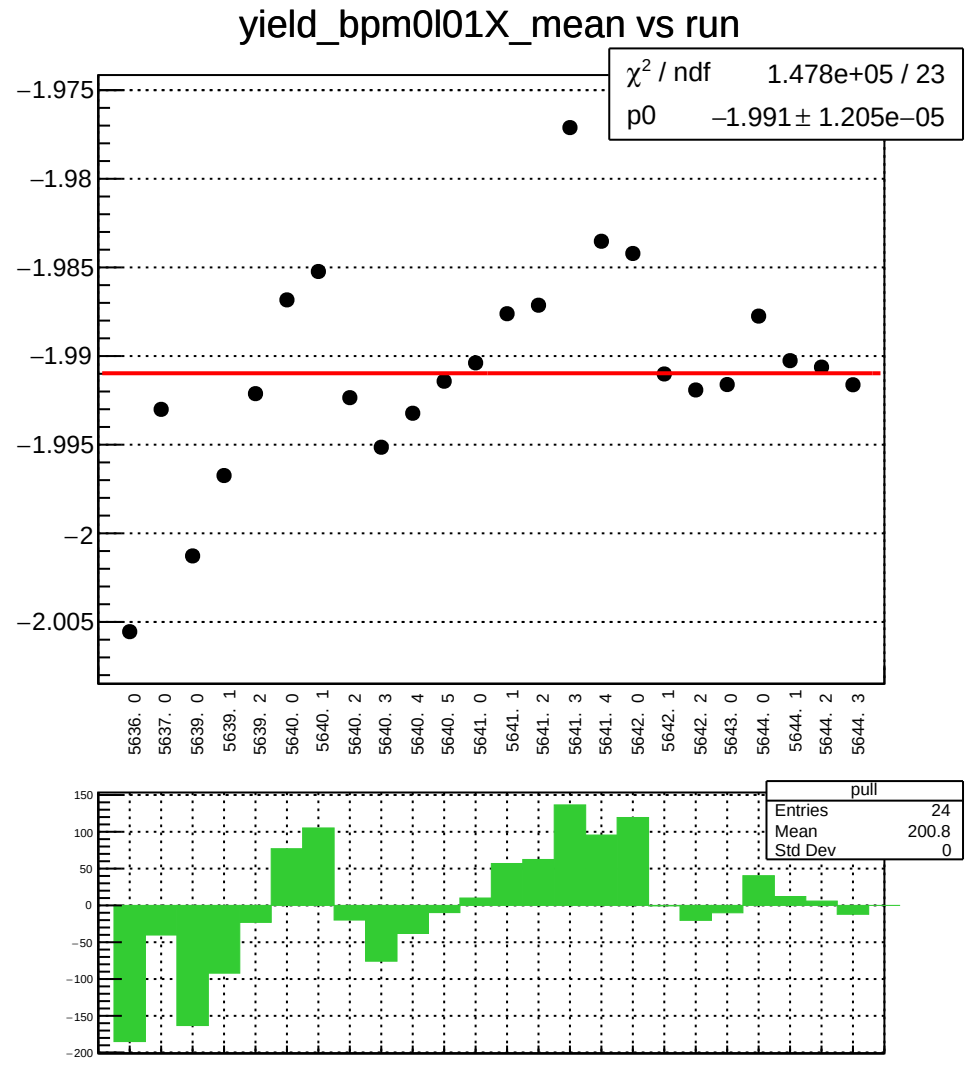

pull1D
Entries 24
Mean −3.614
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

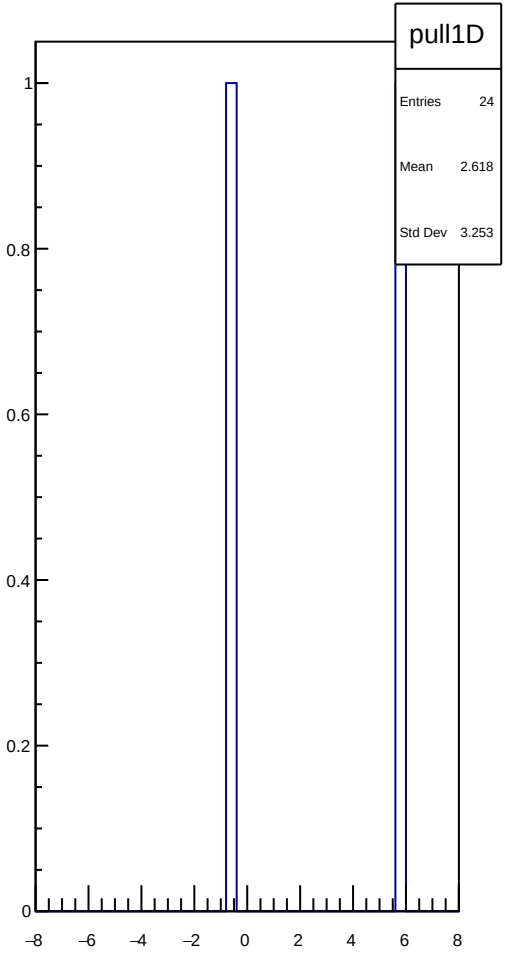

yield_bpm0i01aX_rms vs run
χ² / ndf 1.908e+04 / 23
p0 0.006732 ± 9.891e−06
0.016
0.014
0.012
0.01
0.008
0.006
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

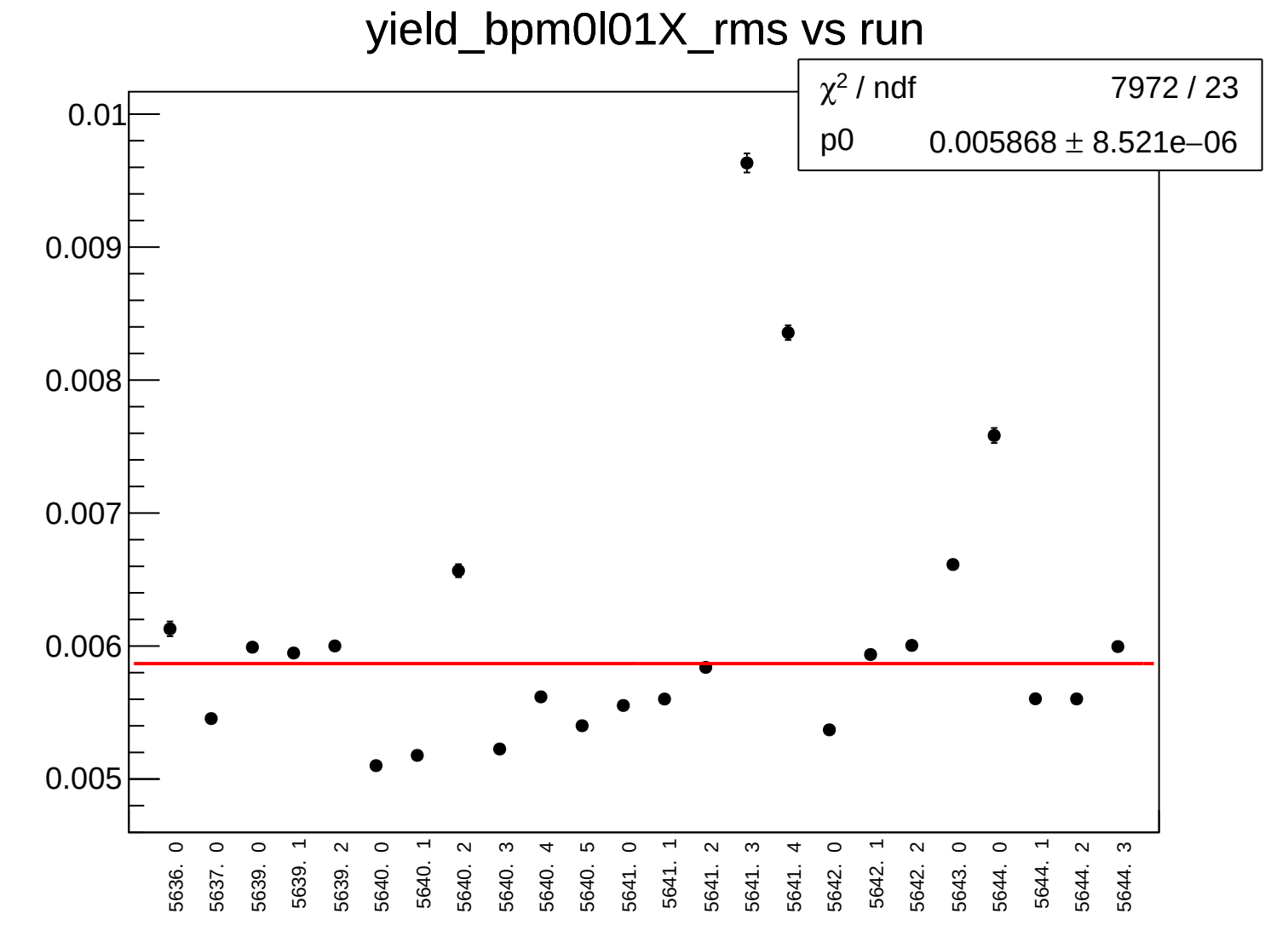

yield_bpm0i01aY_mean vs run
χ² / ndf 2.607e+06 / 23
p0 1.704 ± 4.225e−06
1.72
1.715
1.71
1.705
1.7
1.695
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −170.8
Std Dev 0
600
400
200
0
−200
−400

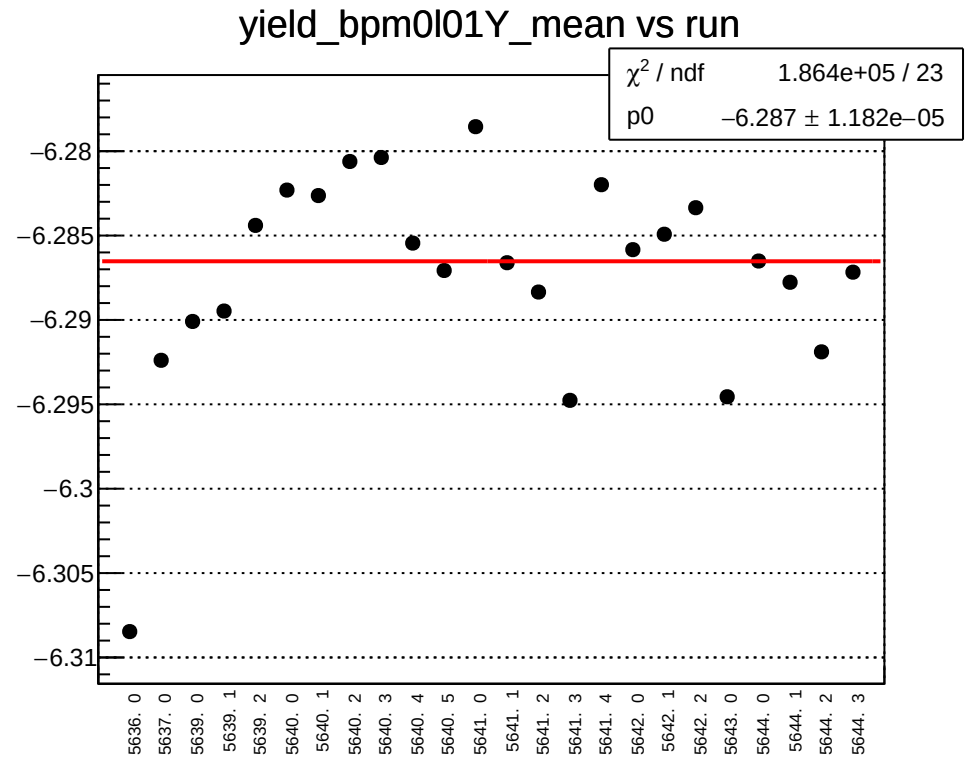

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

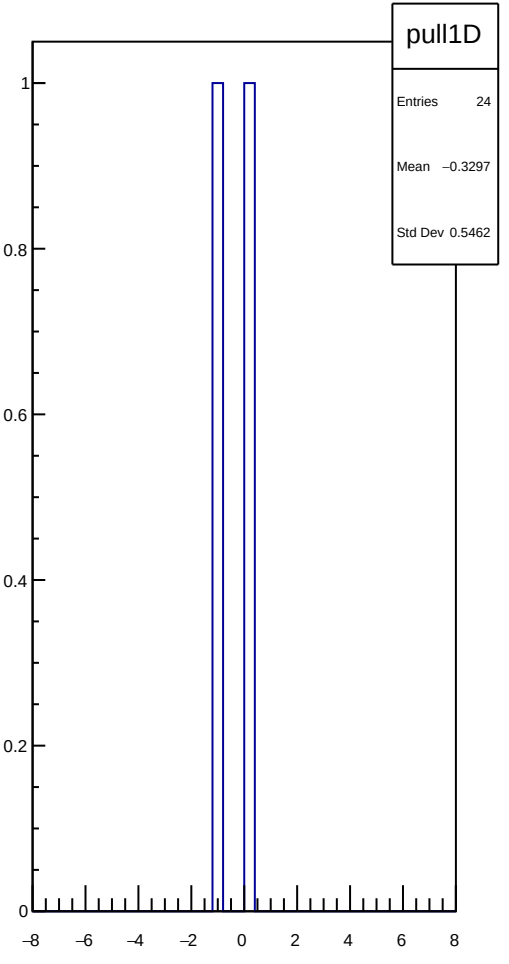

yield_bpm0i01aY_rms vs run
χ² / ndf 3.989e+04 / 23
p0 0.001987 ± 2.988e−06
0.01
0.008
0.006
0.004
0.002
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

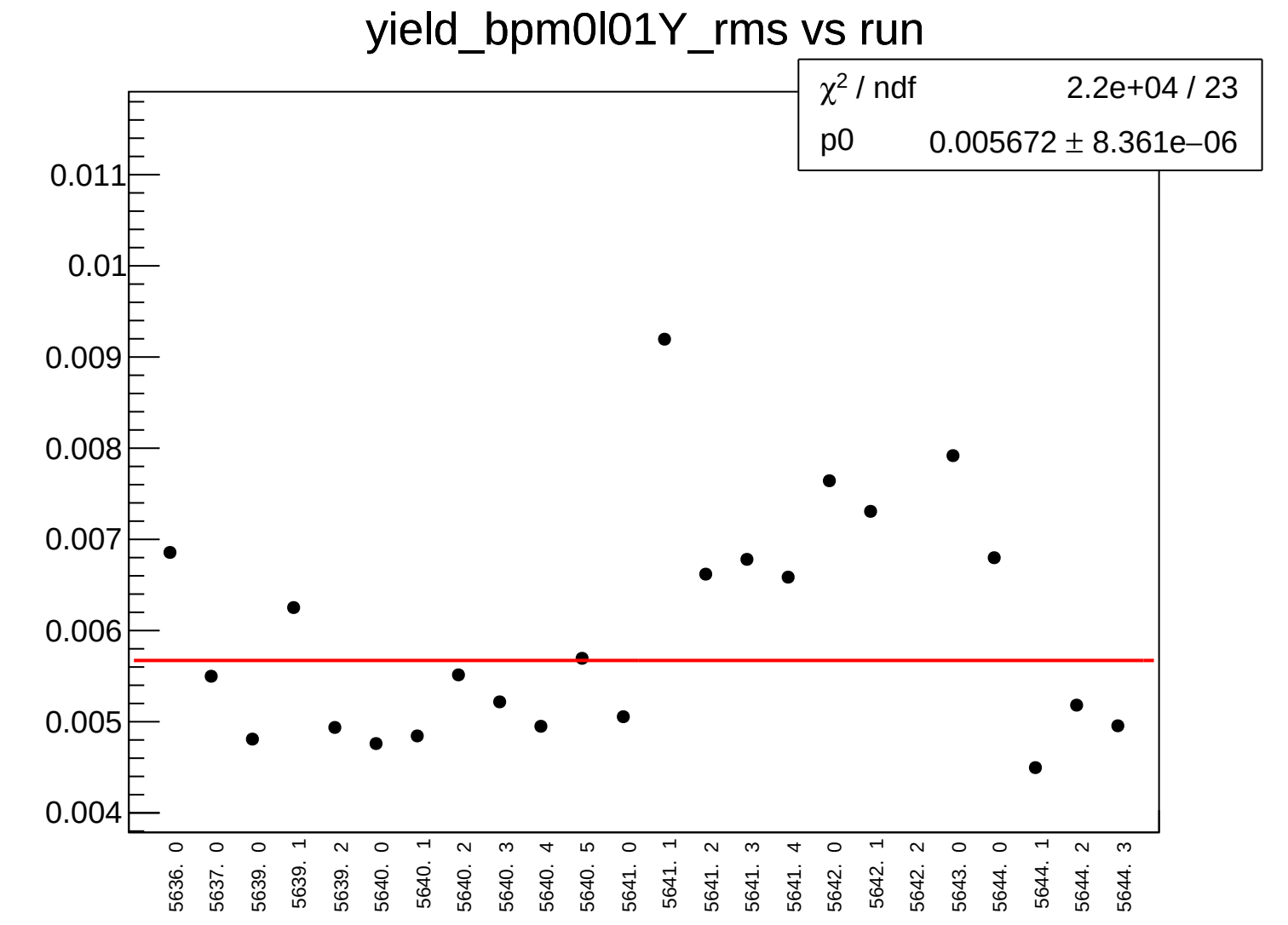

yield_bpm0l01X_mean vs run
χ² / ndf 1.478e+05 / 23
p0 −1.991 ± 1.205e−05
−1.975
−1.98
−1.985
−1.99
−1.995
−2
−2.005
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 200.8
Std Dev 0
150
100
50
0
−50
−100
−150
−200

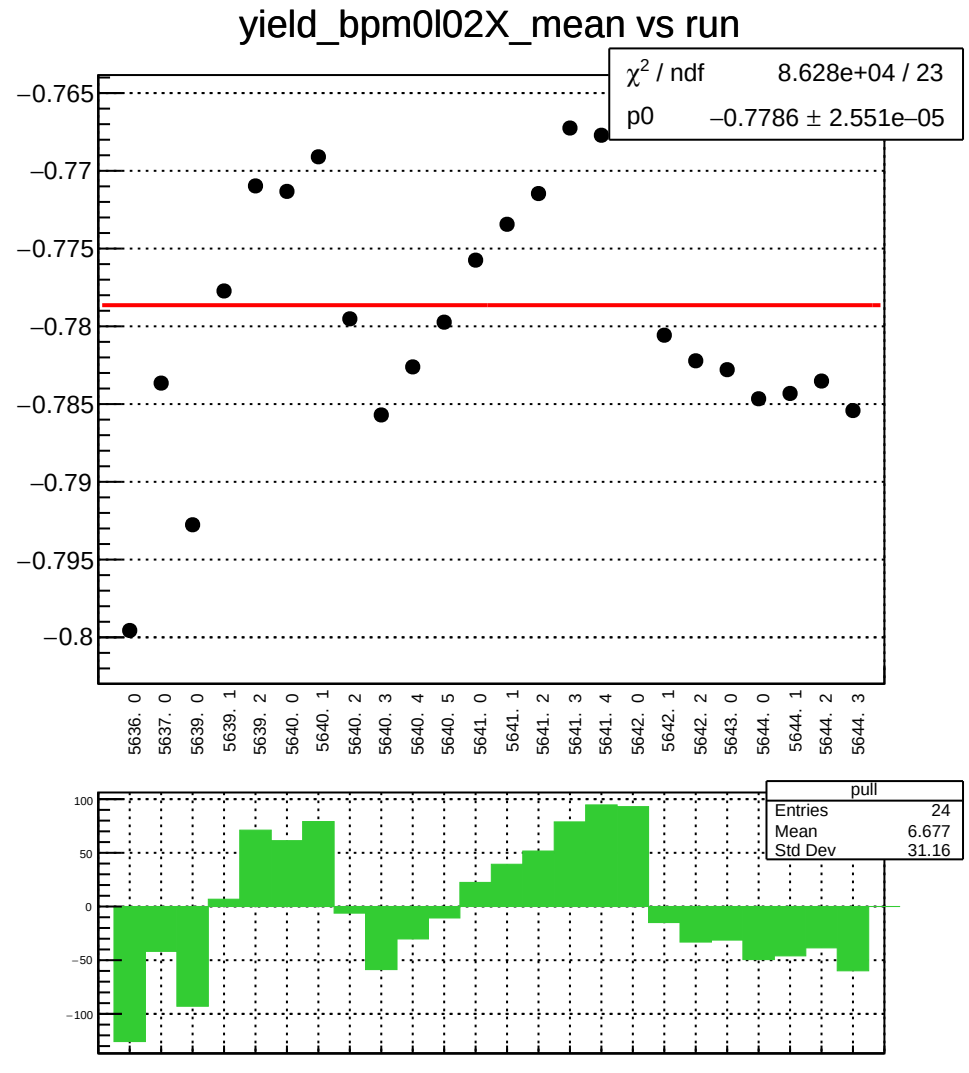

pull1D
Entries 24
Mean 2.618
Std Dev 3.253
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

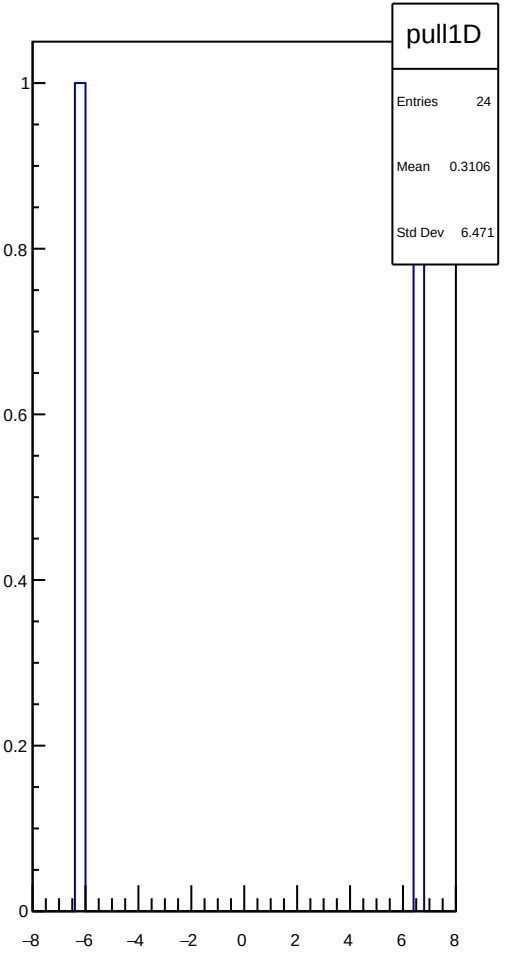

yield_bpm0l01X_rms vs run
χ² / ndf 7972 / 23
p0 0.005868 ± 8.521e−06
0.01
0.009
0.008
0.007
0.006
0.005
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

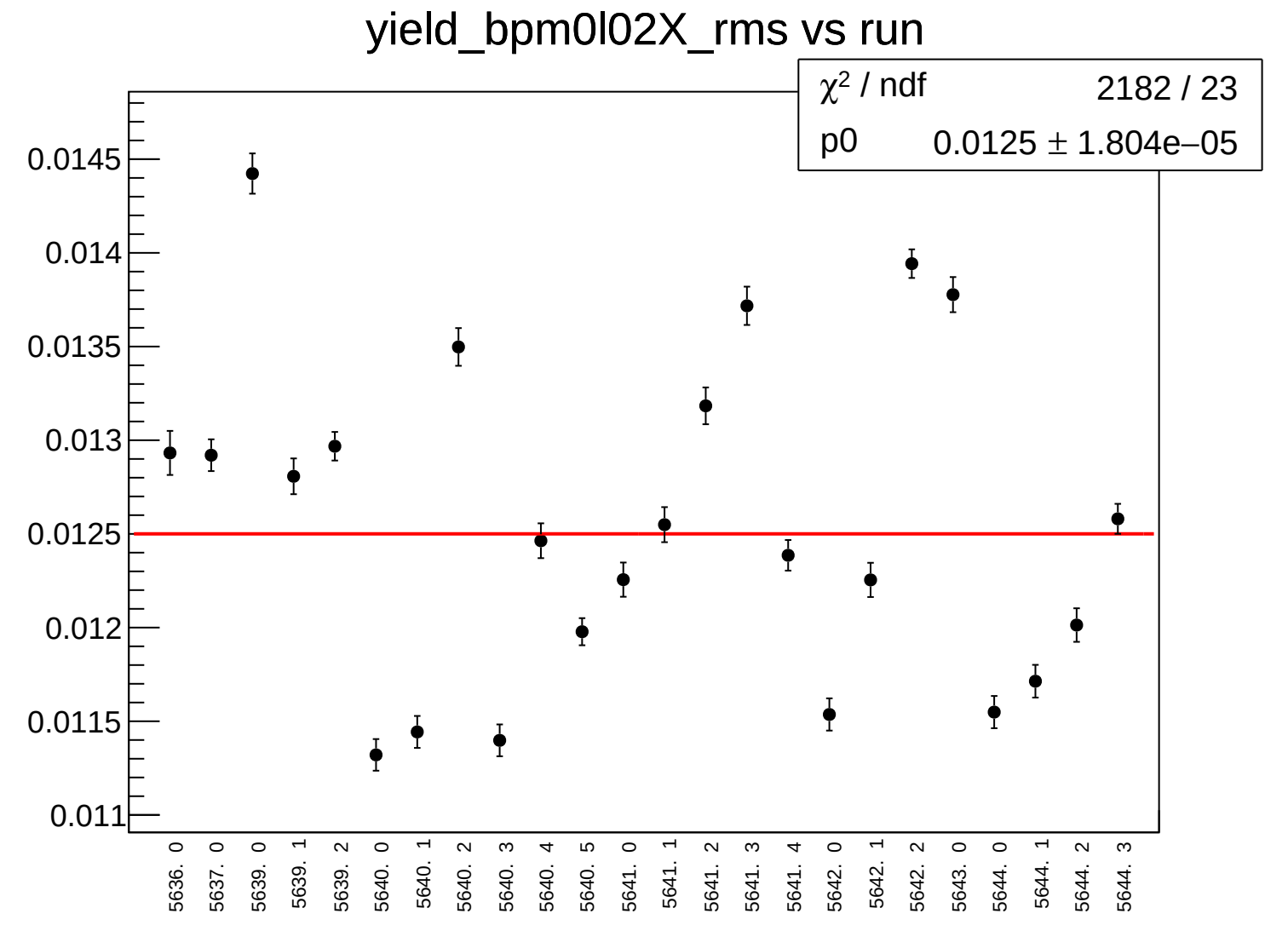

yield_bpm0l01Y_mean vs run
χ² / ndf 1.864e+05 / 23
p0 −6.287 ± 1.182e−05
−6.28
−6.285
−6.29
−6.295
−6.3
−6.305
−6.31
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 5.659
Std Dev 19.92
150
100
50
0
−50
−100
−150
−200
−250

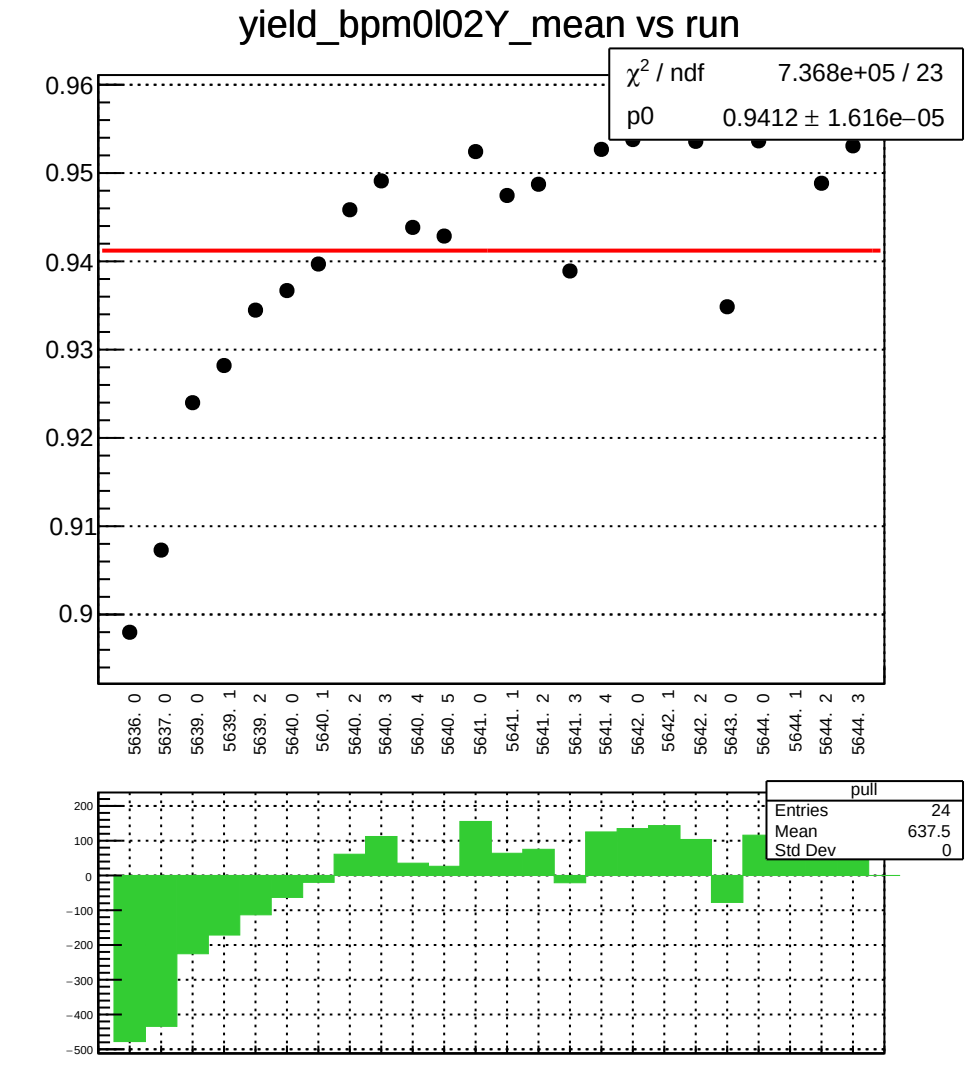

pull1D
Entries 24
Mean −0.3297
Std Dev 0.5462
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

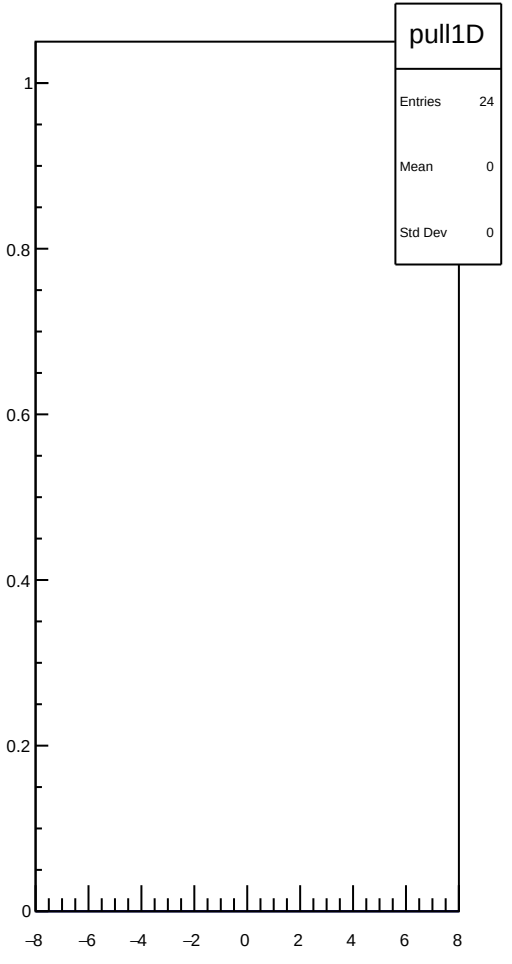

yield_bpm0l01Y_rms vs run
χ² / ndf 2.2e+04 / 23
p0 0.005672 ± 8.361e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

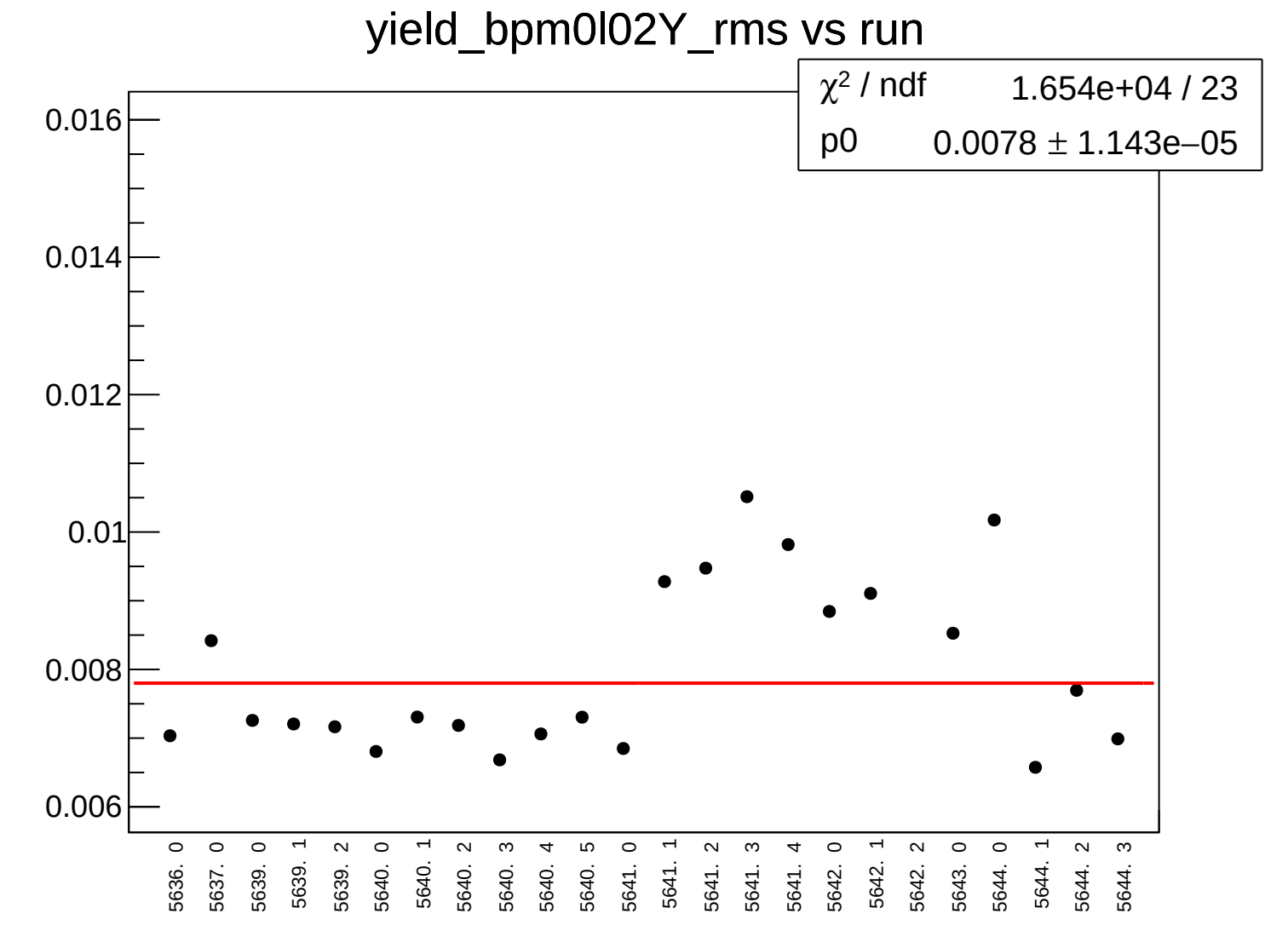

yield_bpm0l02X_mean vs run
χ² / ndf 8.628e+04 / 23
p0 −0.7786 ± 2.551e−05
−0.765
−0.77
−0.775
−0.78
−0.785
−0.79
−0.795
−0.8
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 6.677
Std Dev 31.16
100
50
0
−50
−100

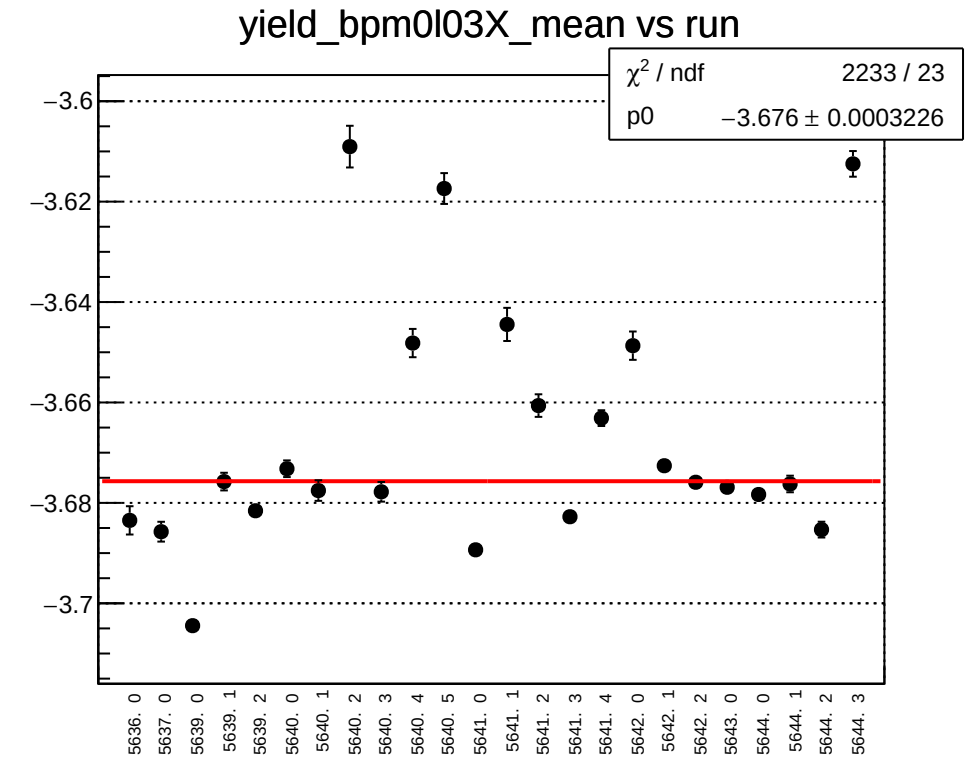

pull1D
Entries 24
Mean 0.3106
Std Dev 6.471
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

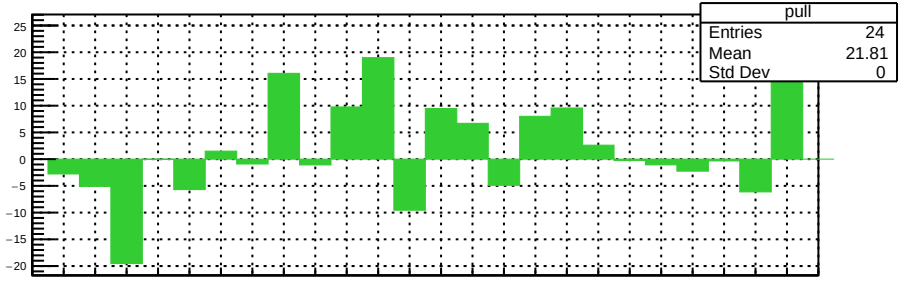

yield_bpm0l02X_rms vs run
χ² / ndf 2182 / 23
p0 0.0125 ± 1.804e−05
0.0145
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

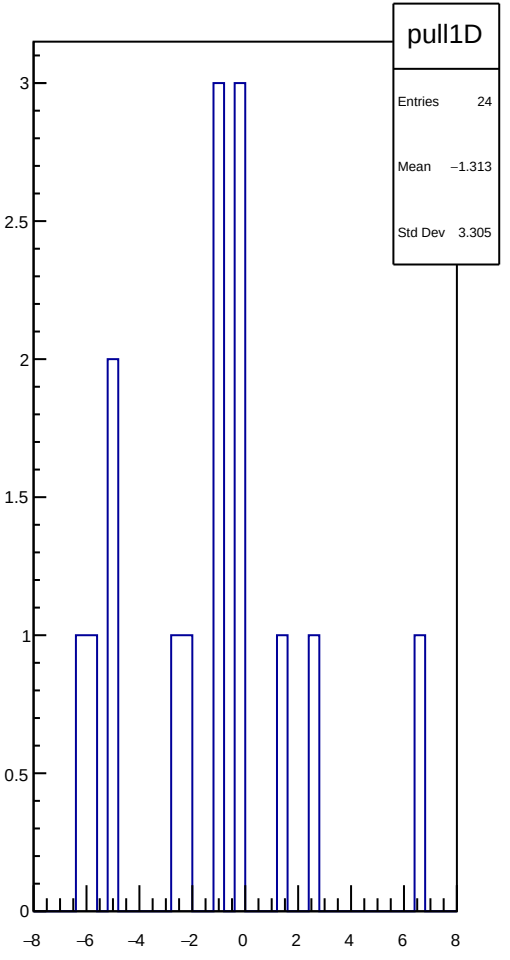

yield_bpm0l02Y_mean vs run
χ² / ndf 7.368e+05 / 23
p0 0.9412 ± 1.616e−05
0.96
0.95
0.94
0.93
0.92
0.91
0.9
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 637.5
Std Dev 0
200
100
0
−100
−200
−300
−400
−500

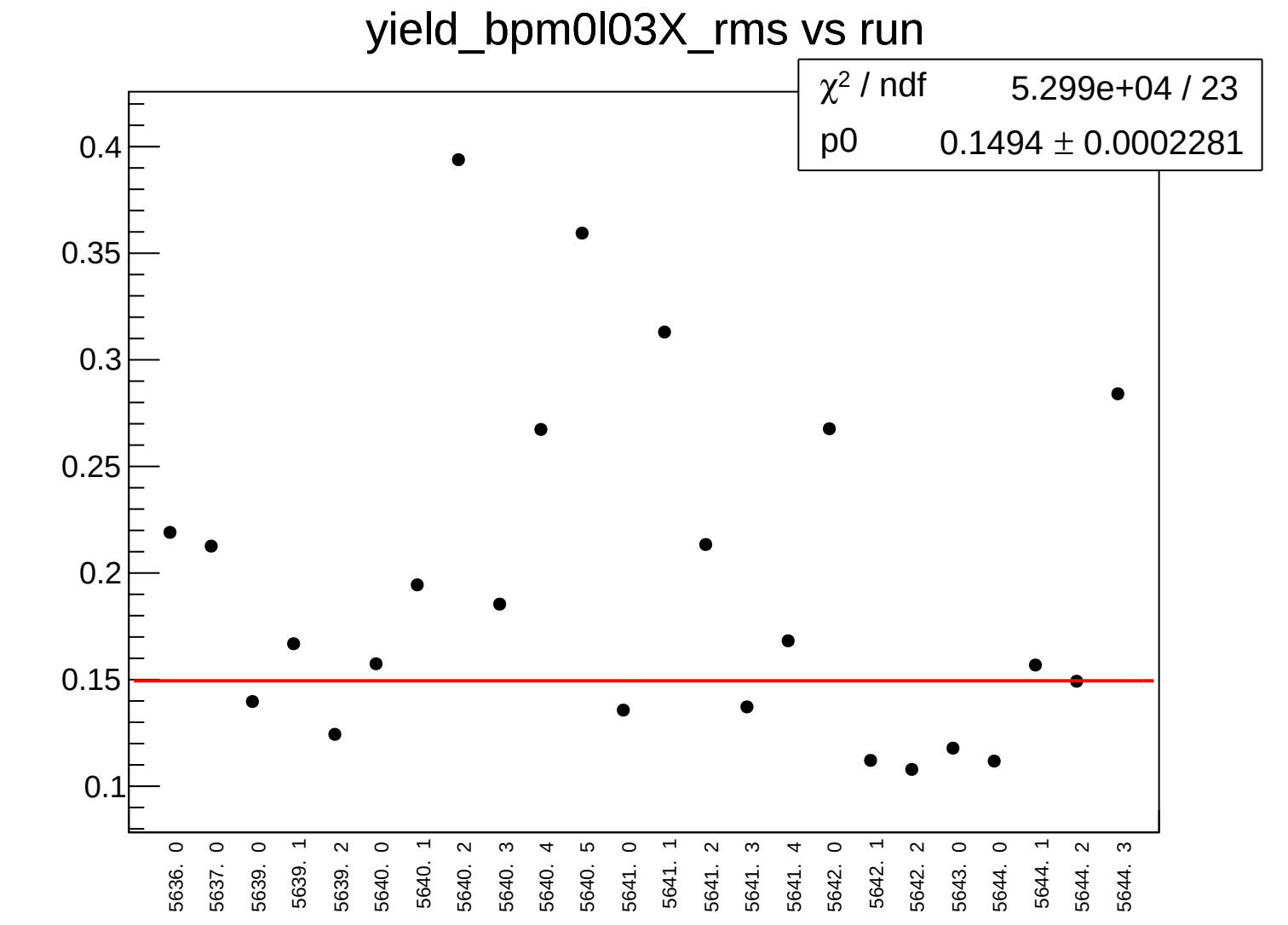

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

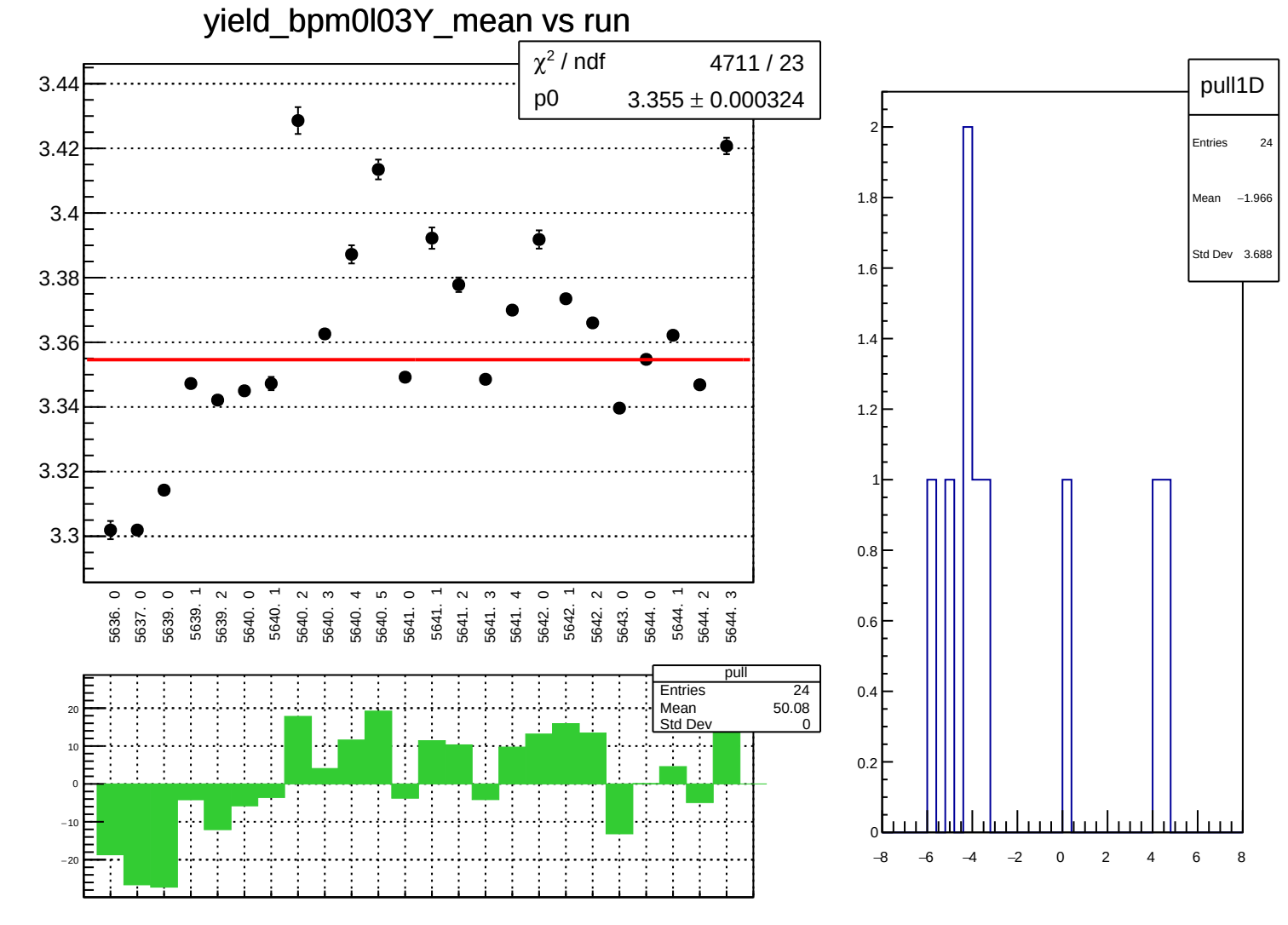

yield_bpm0l02Y_rms vs run
χ² / ndf 1.654e+04 / 23
p0 0.0078 ± 1.143e−05
0.016
0.014
0.012
0.01
0.008
0.006
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

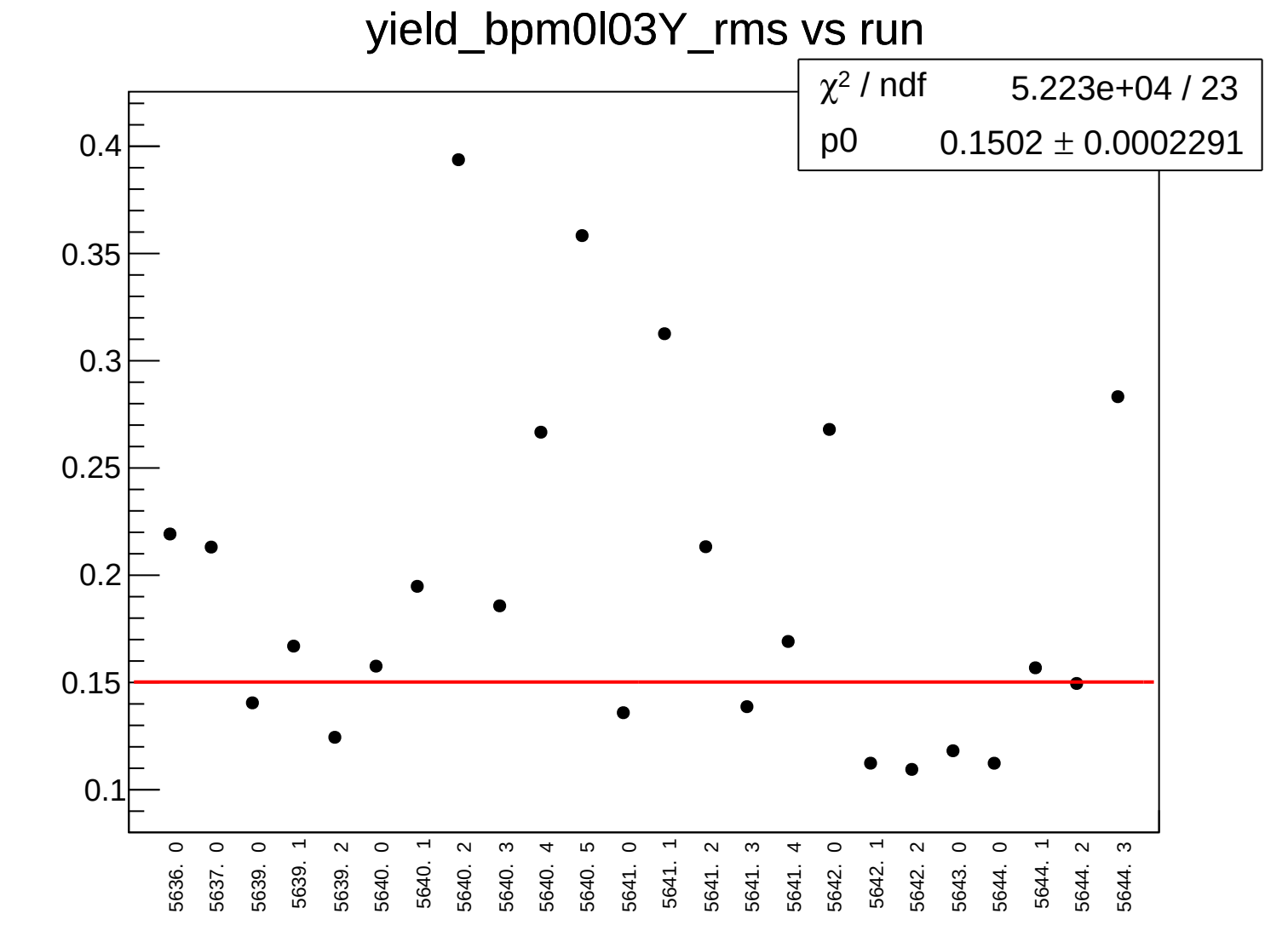

yield_bpm0l03X_mean vs run
χ² / ndf 2233 / 23
p0 −3.676 ± 0.0003226
−3.6
−3.62
−3.64
−3.66
−3.68
−3.7
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

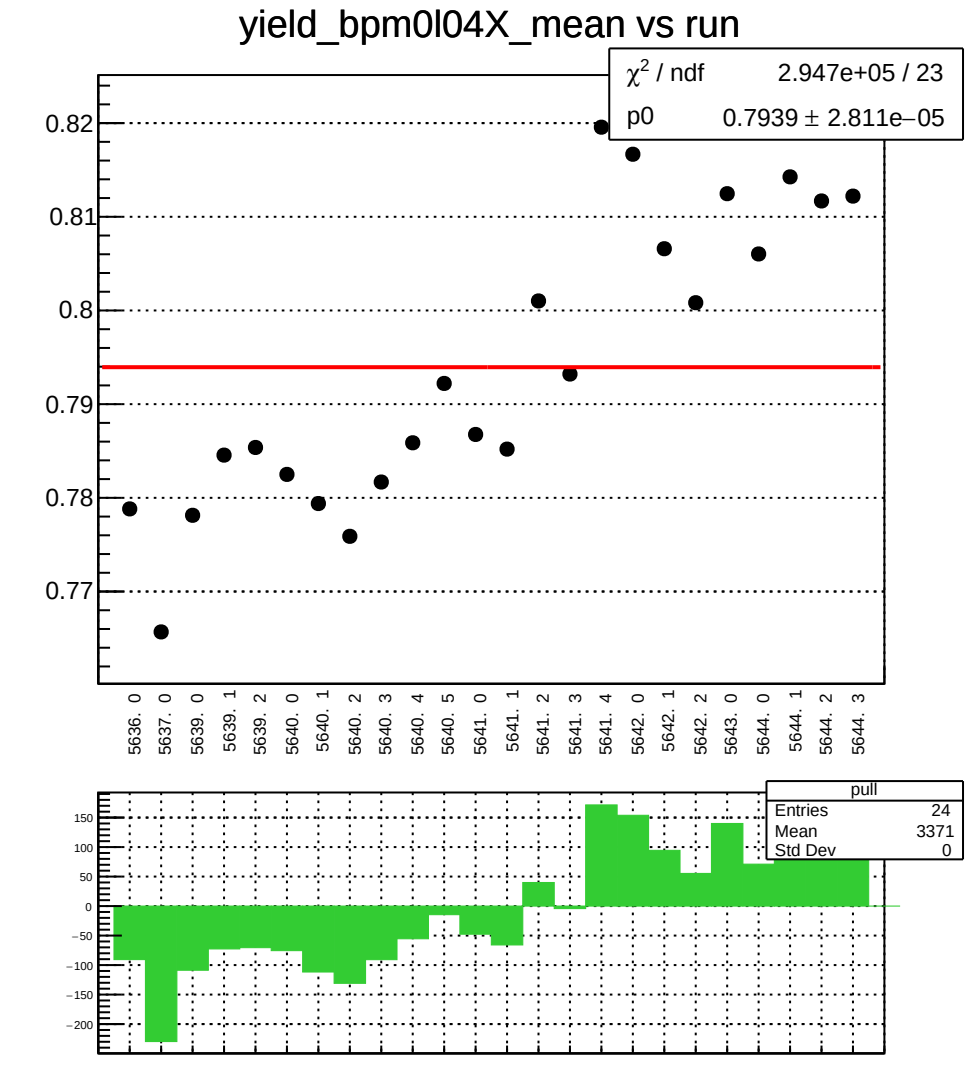

pull
Entries 24
Mean 21.81
Std Dev 0
25
20
15
10
5
0
−5
−10
−15
−20

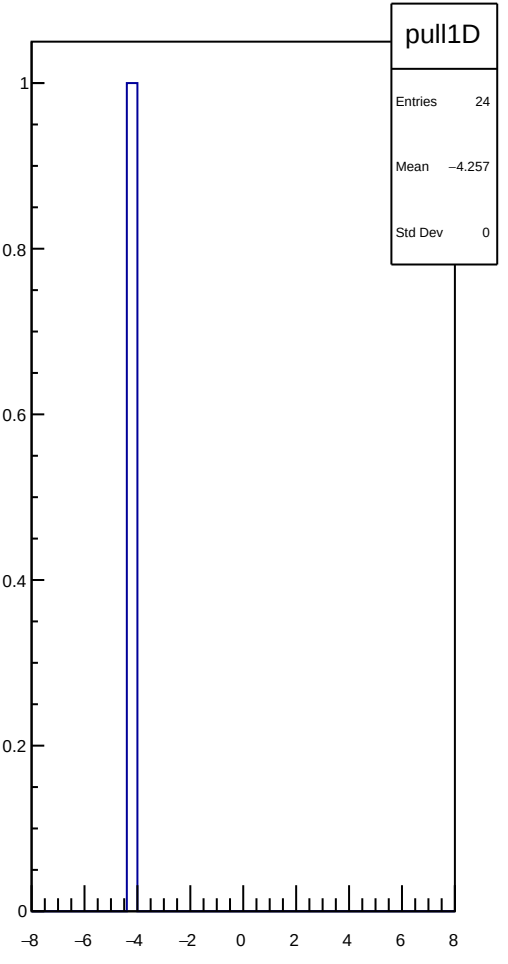

pull1D
Entries 24
Mean −1.313
Std Dev 3.305
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

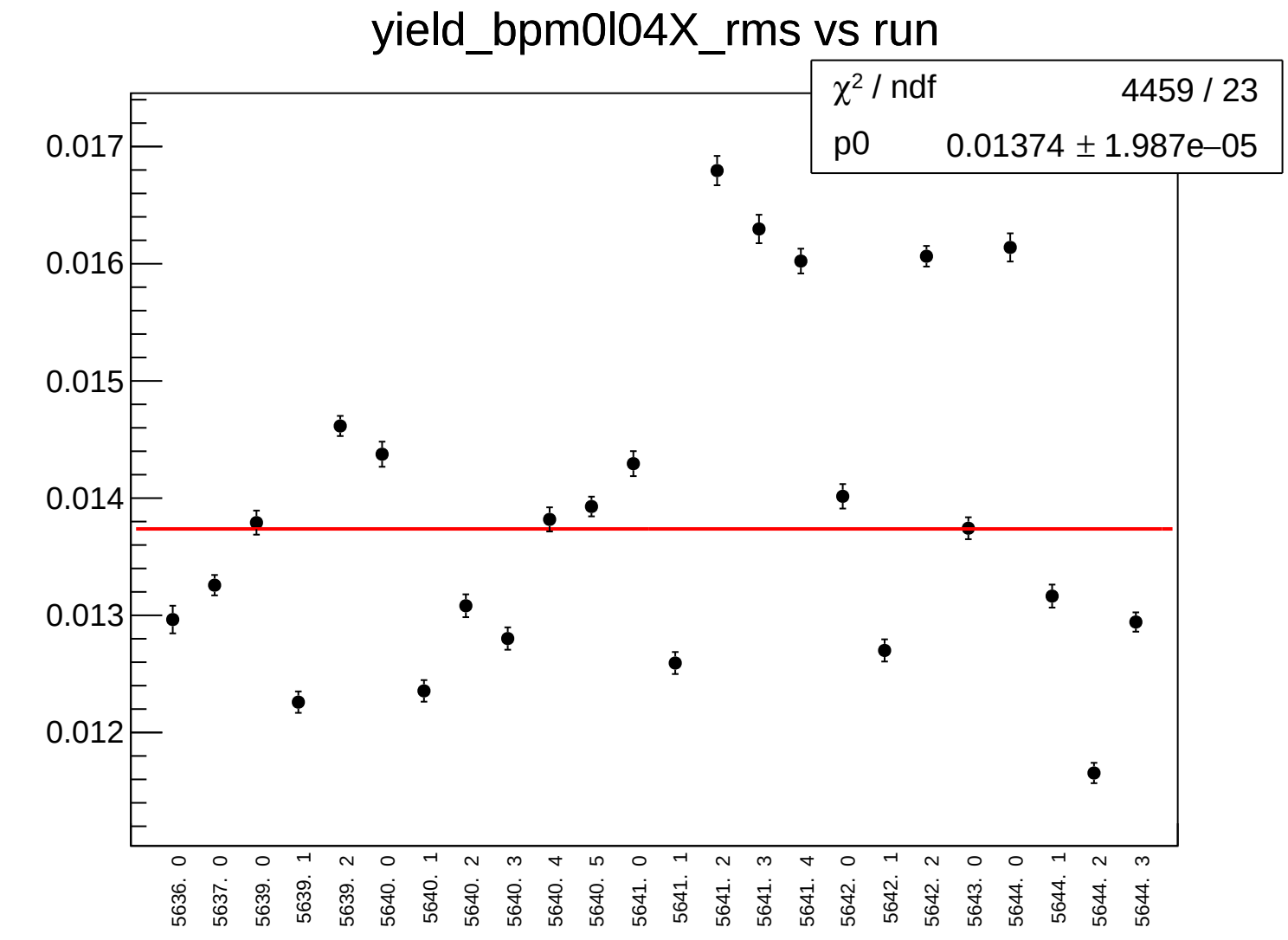

yield_bpm0l03X_rms vs run
χ² / ndf 5.299e+04 / 23
p0 0.1494 ± 0.0002281
0.4
0.35
0.3
0.25
0.2
0.15
0.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

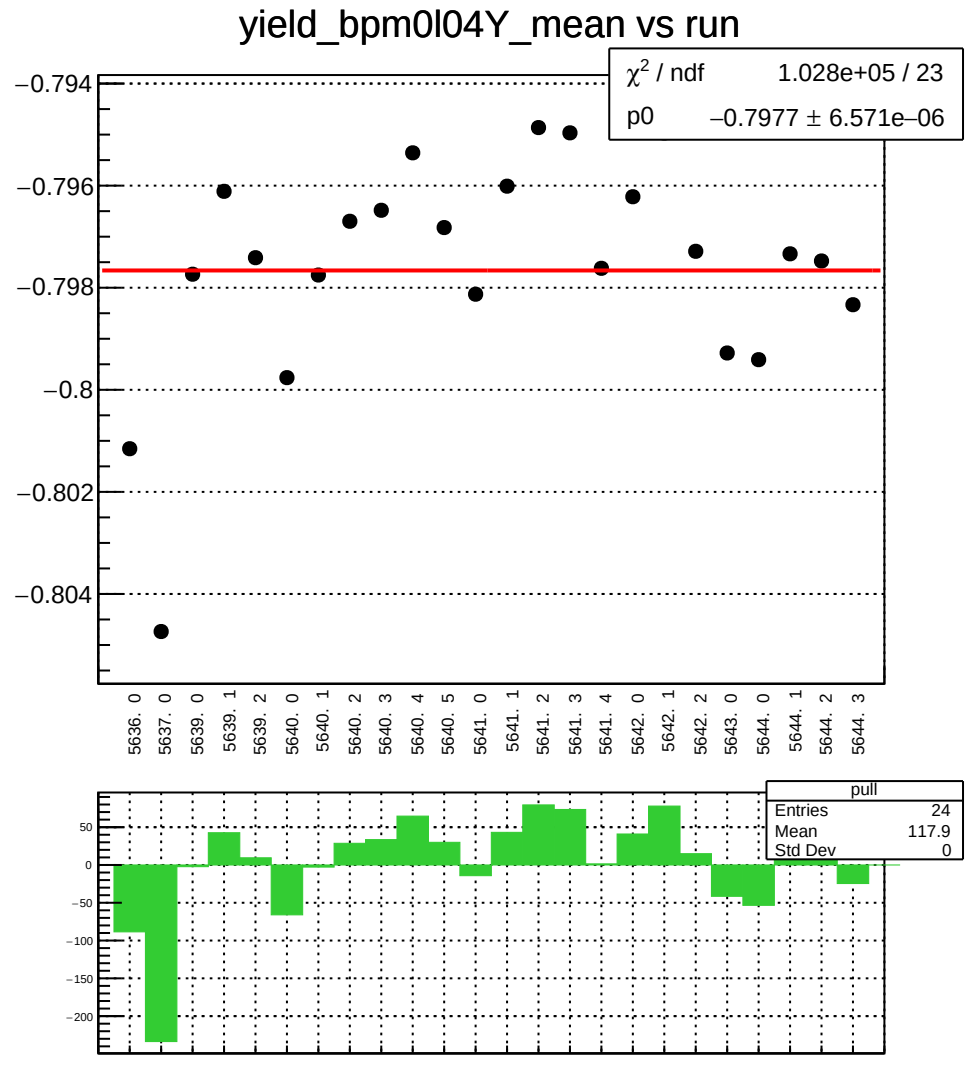

yield_bpm0l03Y_mean vs run
χ² / ndf 4711 / 23
p0 3.355 ± 0.000324
3.44
3.42
3.4
3.38
3.36
3.34
3.32
3.3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 50.08
Std Dev 0
20
10
0
−10
−20
pull1D
Entries 24
Mean −1.966
Std Dev 3.688
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

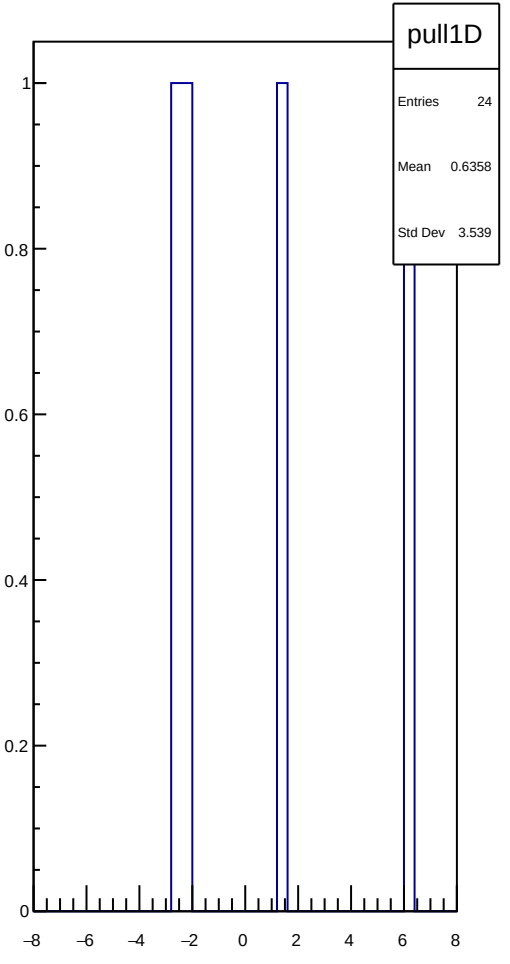

yield_bpm0l03Y_rms vs run
χ² / ndf 5.223e+04 / 23
p0 0.1502 ± 0.0002291
0.4
0.35
0.3
0.25
0.2
0.15
0.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

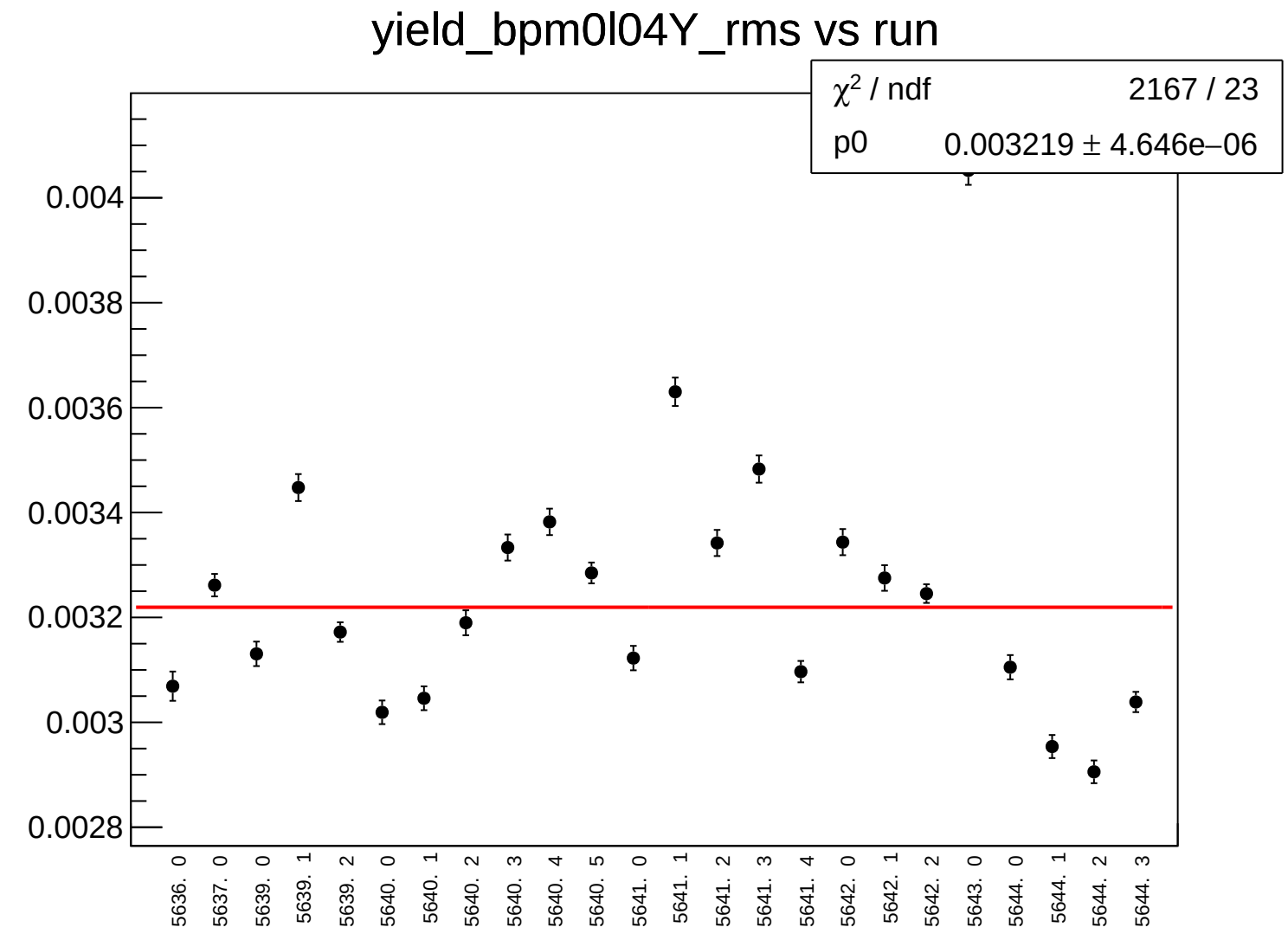

yield_bpm0l04X_mean vs run
χ² / ndf 2.947e+05 / 23
p0 0.7939 ± 2.811e−05
0.82
0.81
0.8
0.79
0.78
0.77
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 3371
Std Dev 0
150
100
50
0
−50
−100
−150
−200

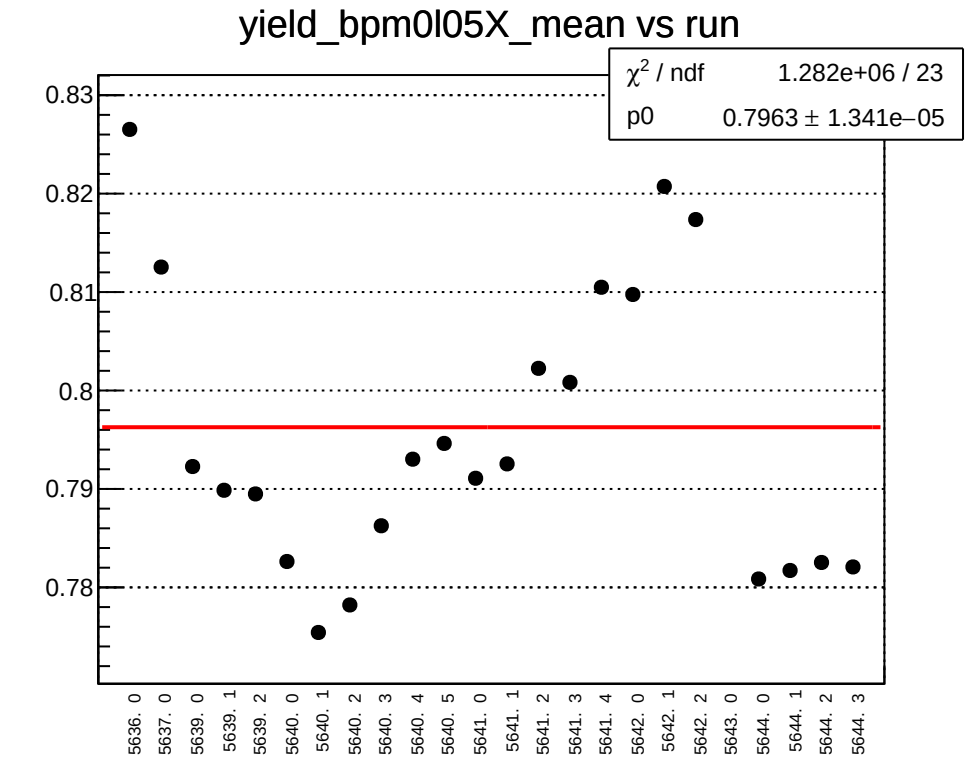

pull1D
Entries 24
Mean −4.257
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

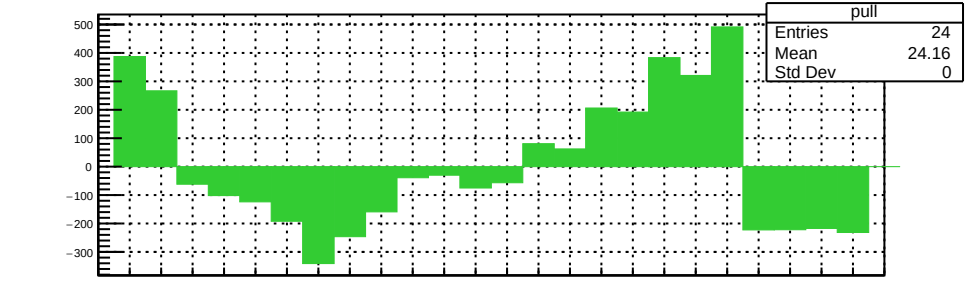

yield_bpm0l04X_rms vs run
χ² / ndf 4459 / 23
p0 0.01374 ± 1.987e–05
0.017
0.016
0.015
0.014
0.013
0.012
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

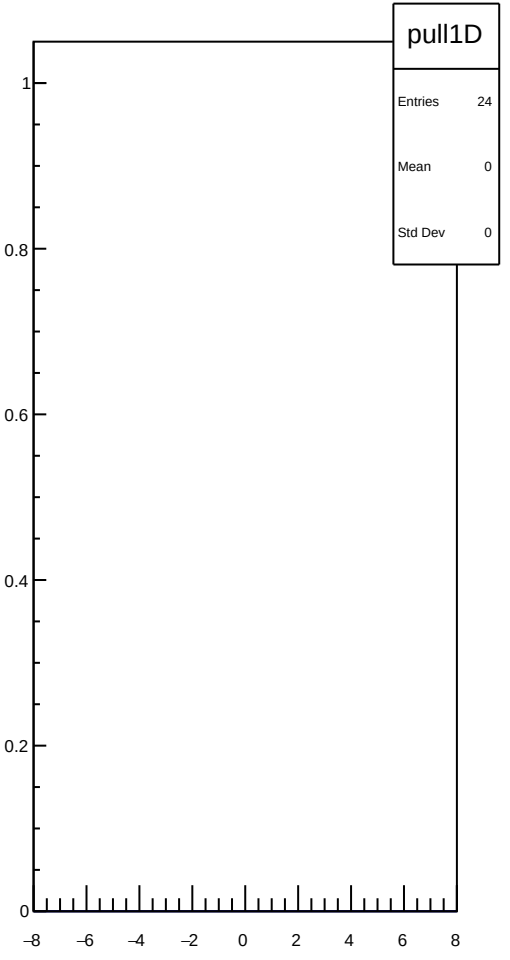

yield_bpm0l04Y_mean vs run
χ² / ndf 1.028e+05 / 23
p0 −0.7977 ± 6.571e−06
−0.794
−0.796
−0.798
−0.8
−0.802
−0.804
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 117.9
Std Dev 0
50
0
−50
−100
−150
−200

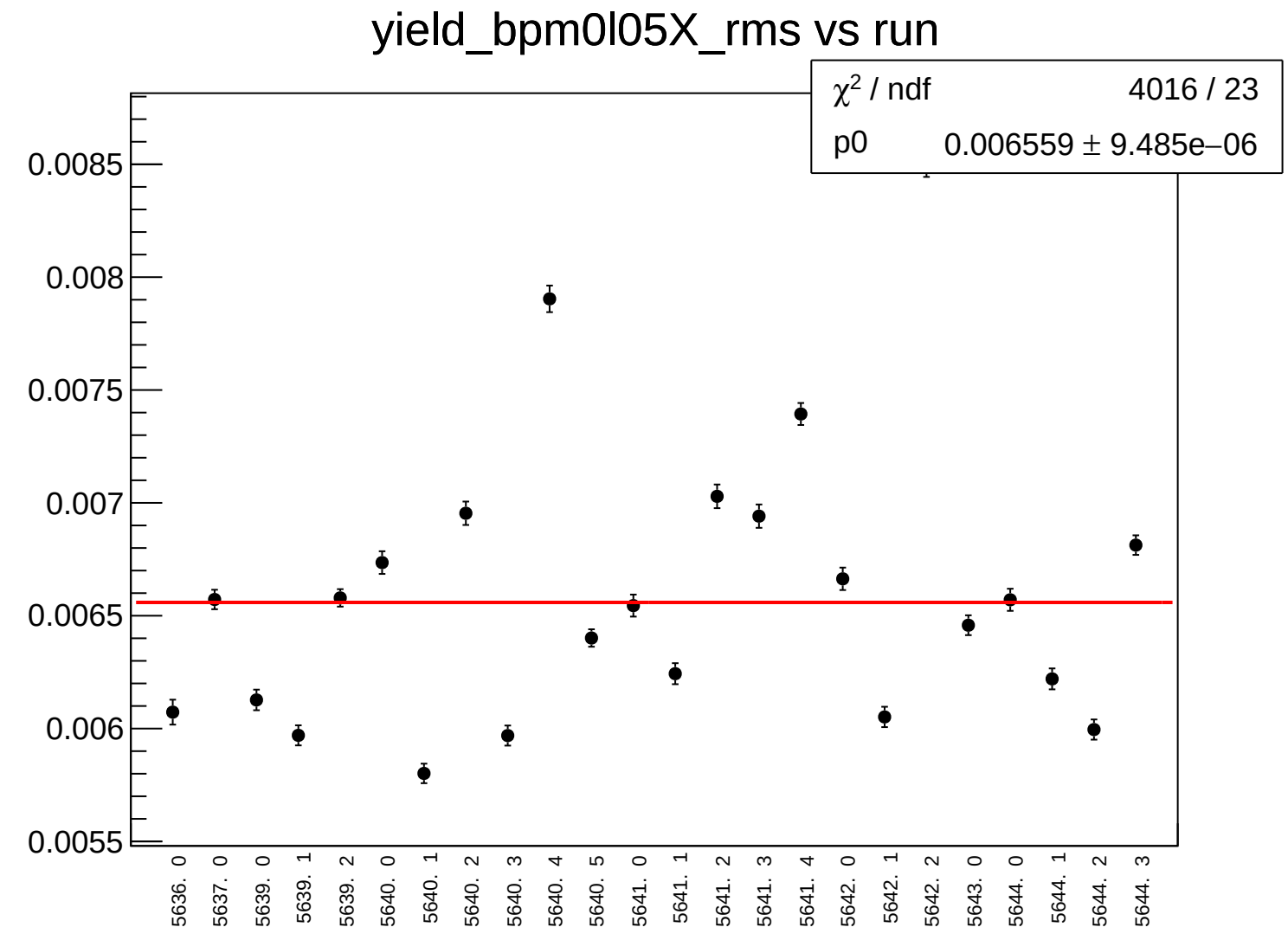

pull1D
Entries 24
Mean 0.6358
Std Dev 3.539
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

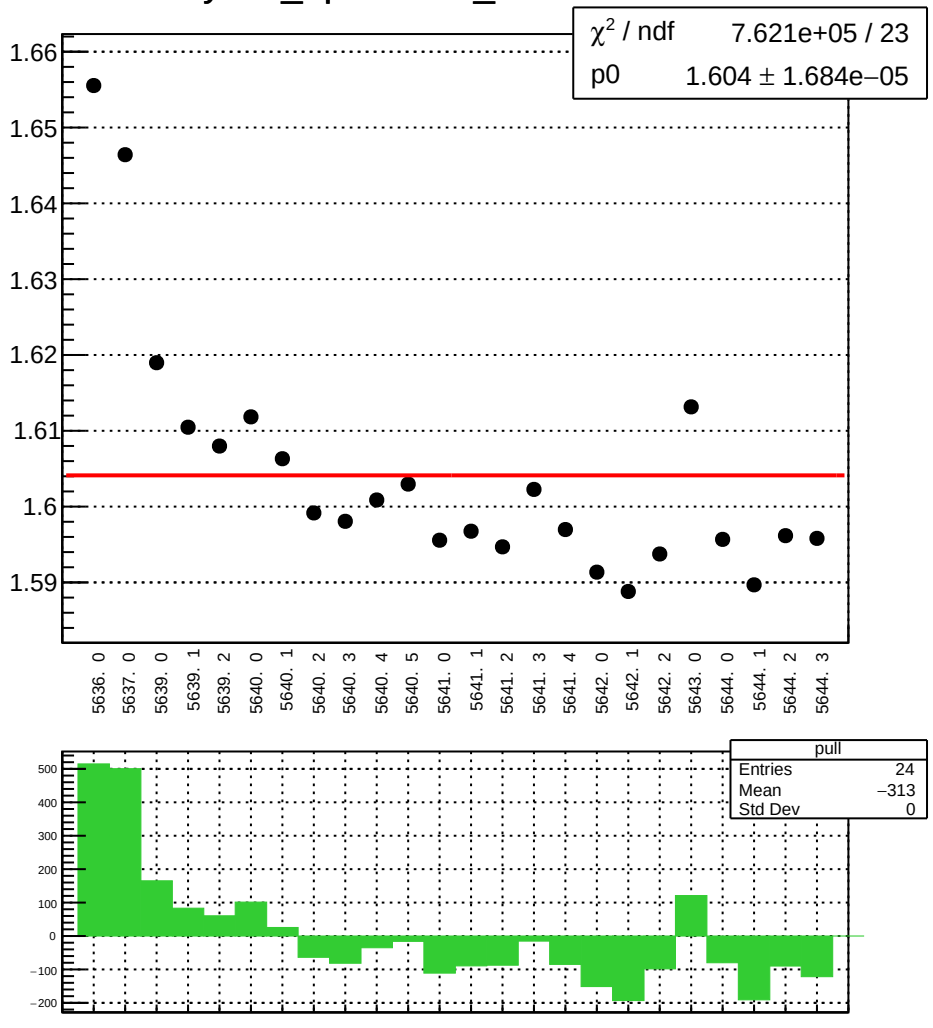

yield_bpm0l04Y_rms vs run
χ² / ndf 2167 / 23
p0 0.003219 ± 4.646e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

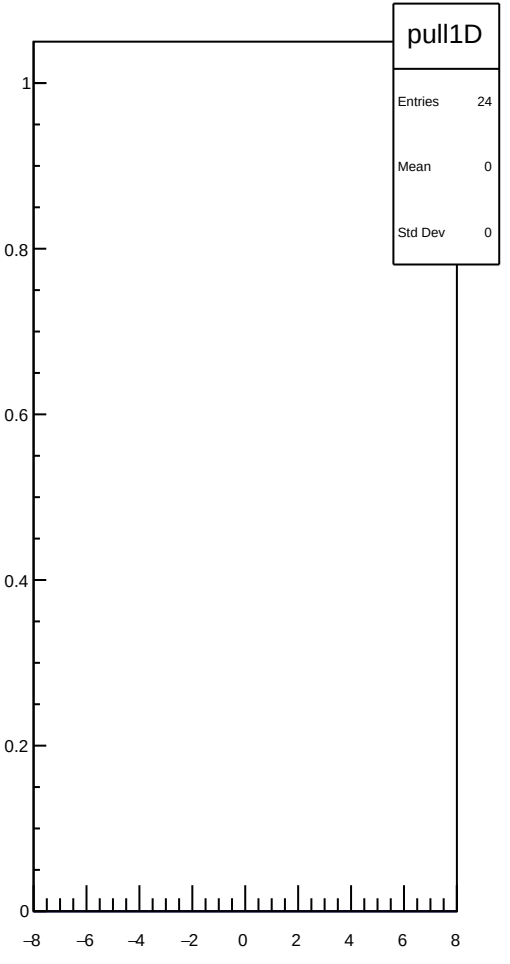

yield_bpm0l05X_mean vs run
χ² / ndf 1.282e+06 / 23
p0 0.7963 ± 1.341e−05
0.83
0.82
0.81
0.8
0.79
0.78
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

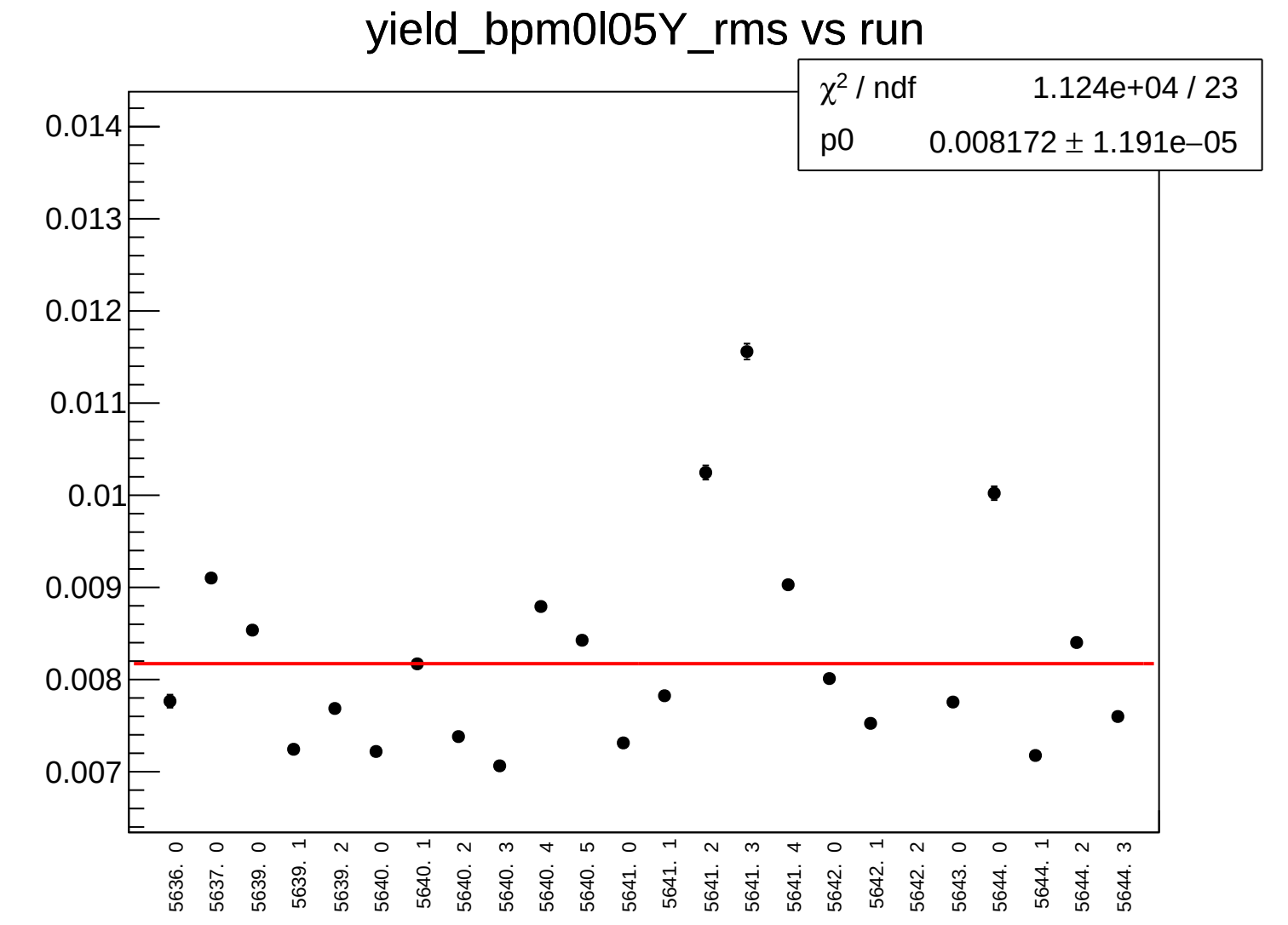

pull
Entries 24
Mean 24.16
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

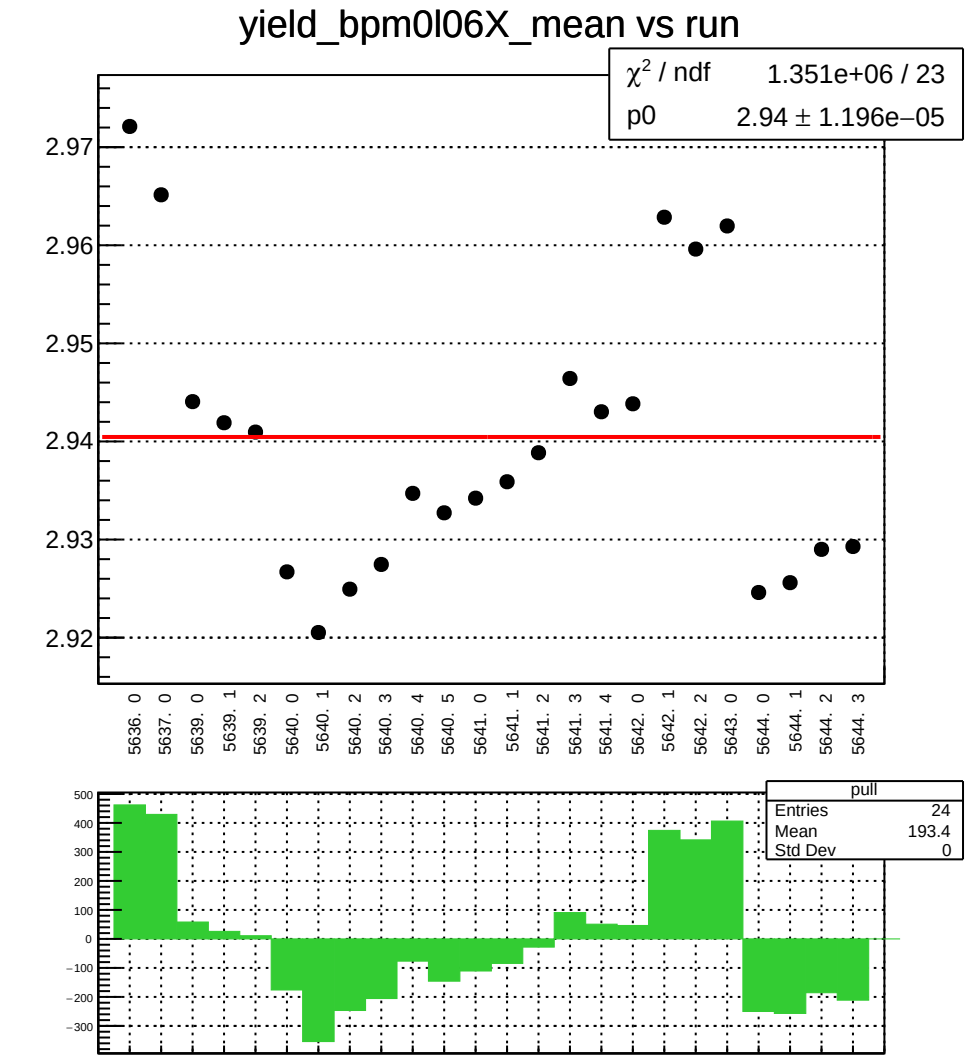

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

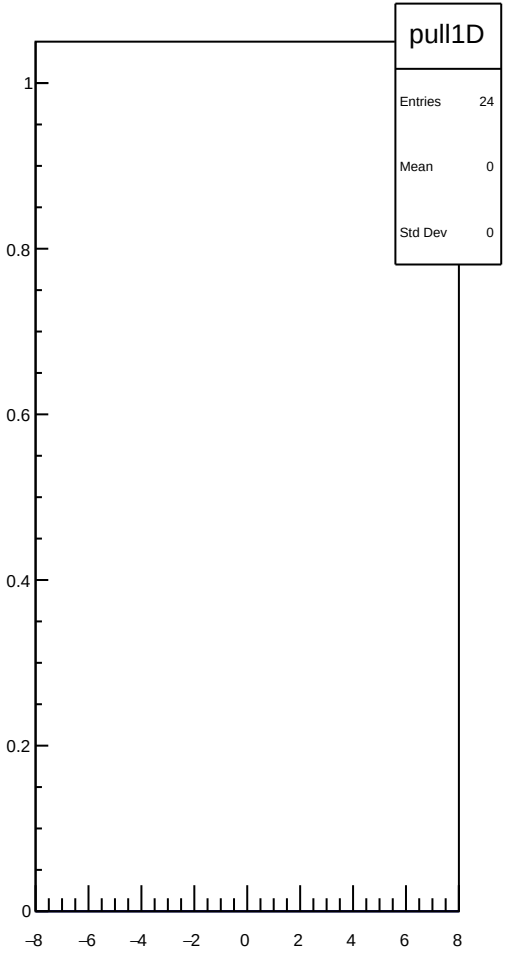

yield_bpm0l05X_rms vs run
χ² / ndf 4016 / 23
p0 0.006559 ± 9.485e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

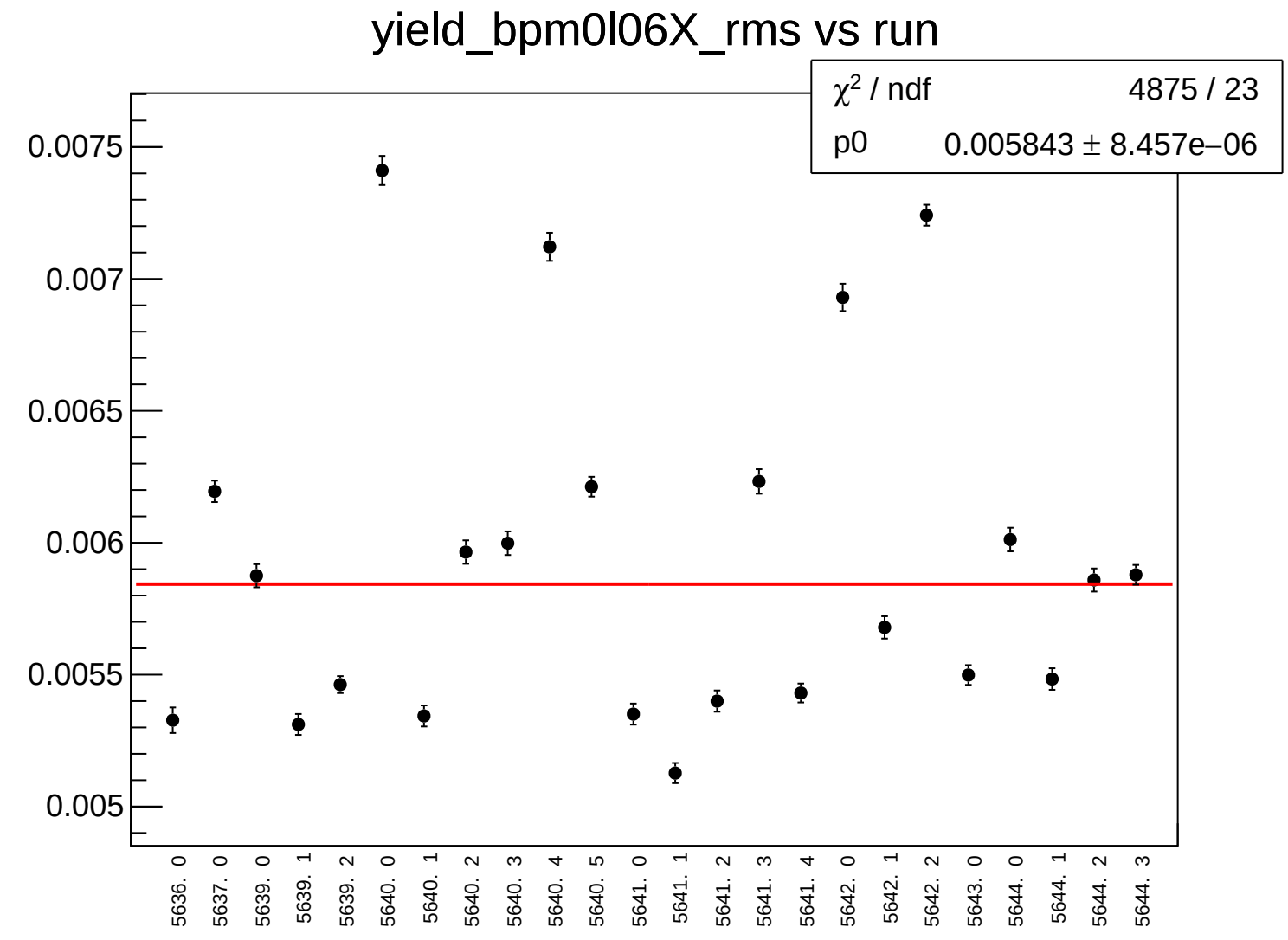

yield_bpm0l05Y_mean vs run
χ² / ndf 7.621e+05 / 23
p0 1.604 ± 1.684e−05
1.66
1.65
1.64
1.63
1.62
1.61
1.6
1.59
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −313
Std Dev 0
500
400
300
200
100
0
−100
−200

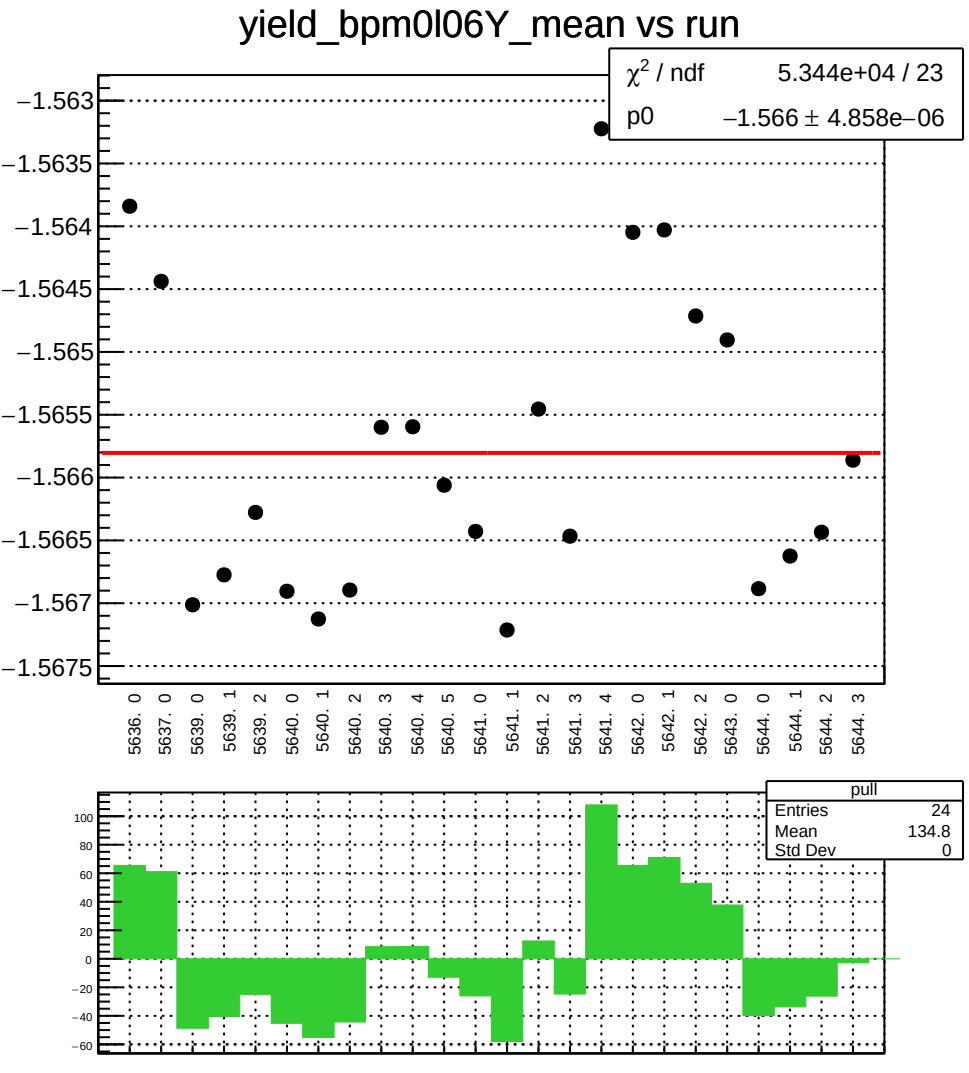

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

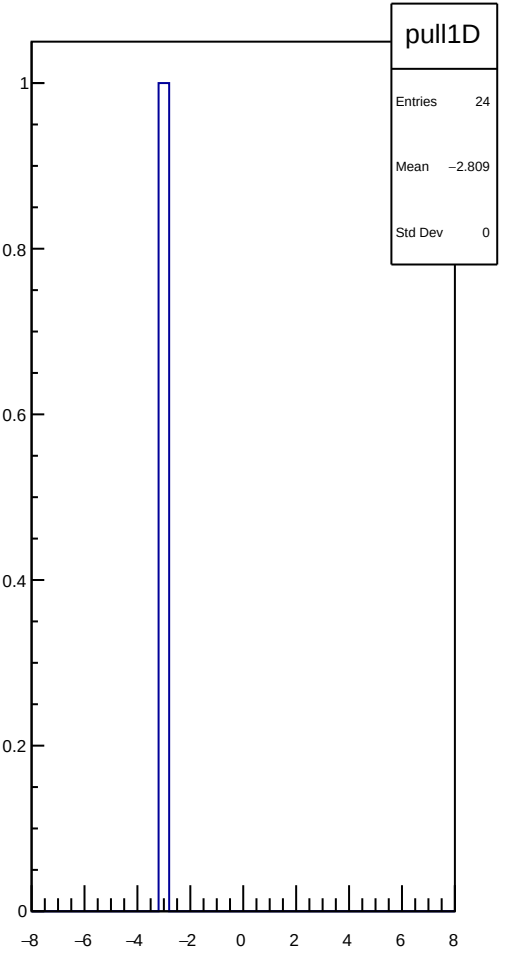

yield_bpm0l05Y_rms vs run
χ² / ndf 1.124e+04 / 23
p0 0.008172 ± 1.191e−05
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

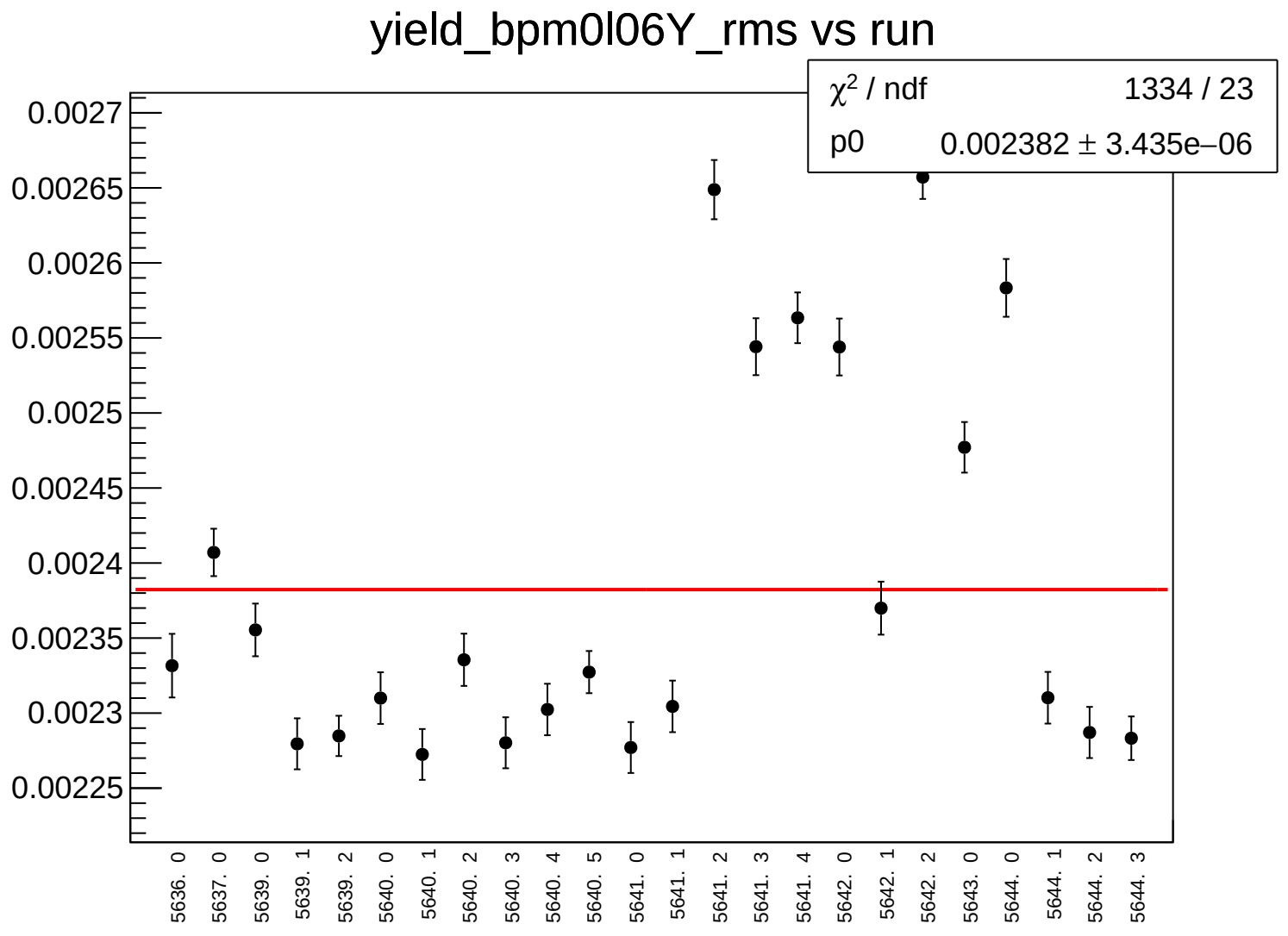

yield_bpm0l06X_mean vs run
χ² / ndf 1.351e+06 / 23
p0 2.94 ± 1.196e−05
2.97
2.96
2.95
2.94
2.93
2.92
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 193.4
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

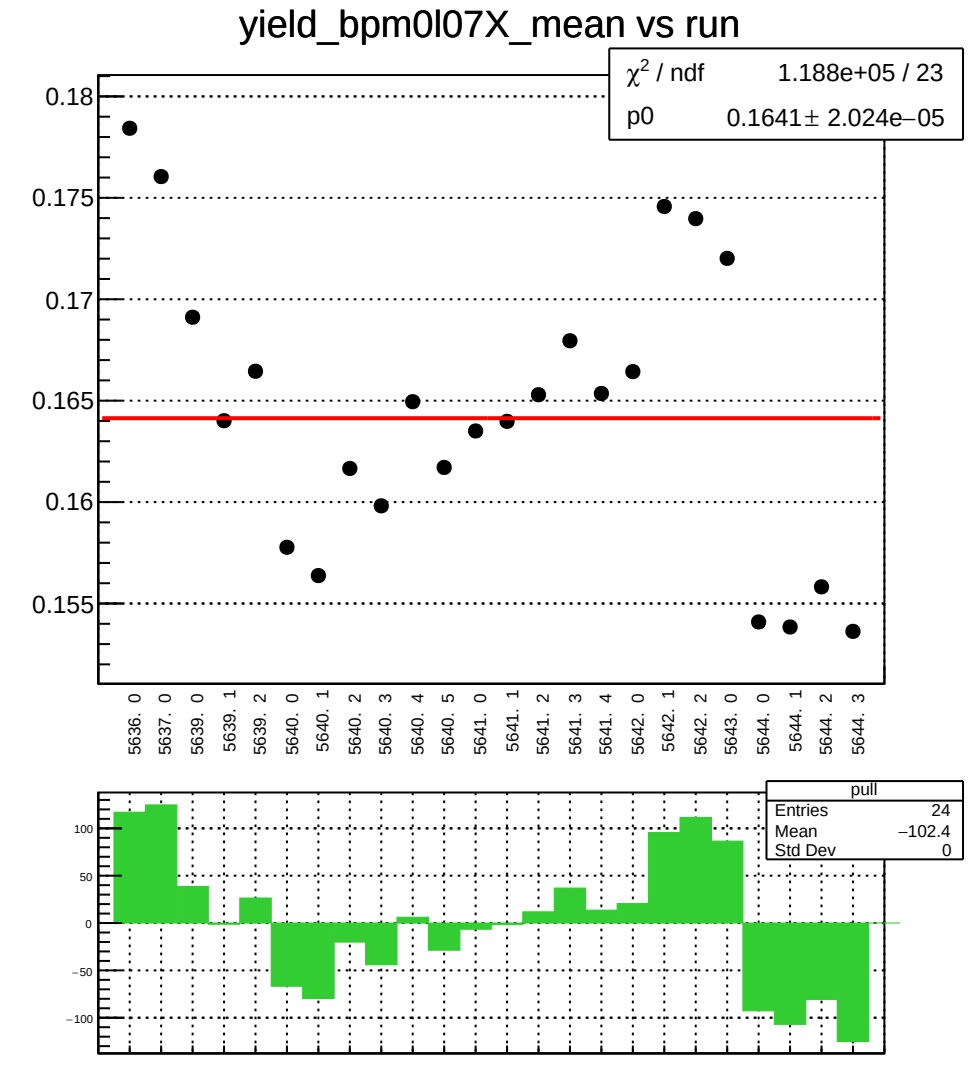

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

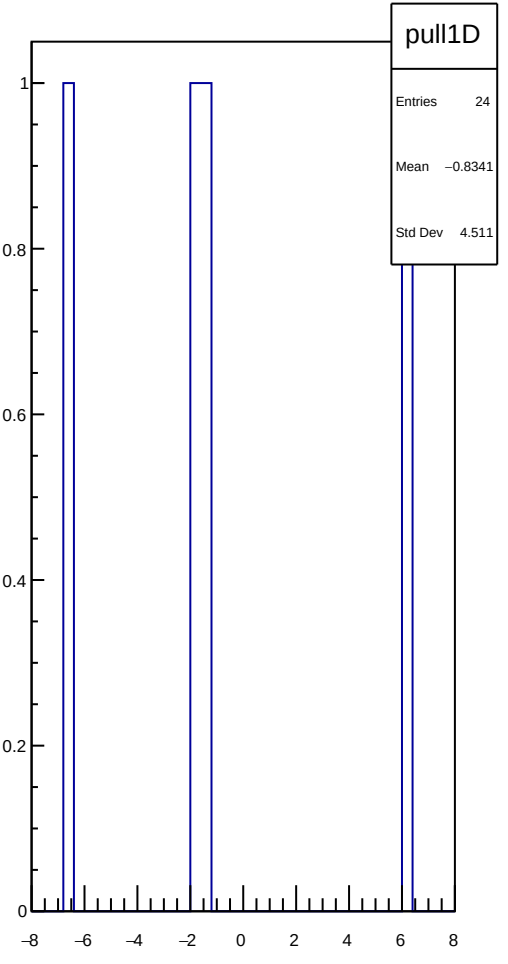

yield_bpm0l06X_rms vs run
χ² / ndf 4875 / 23
p0 0.005843 ± 8.457e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

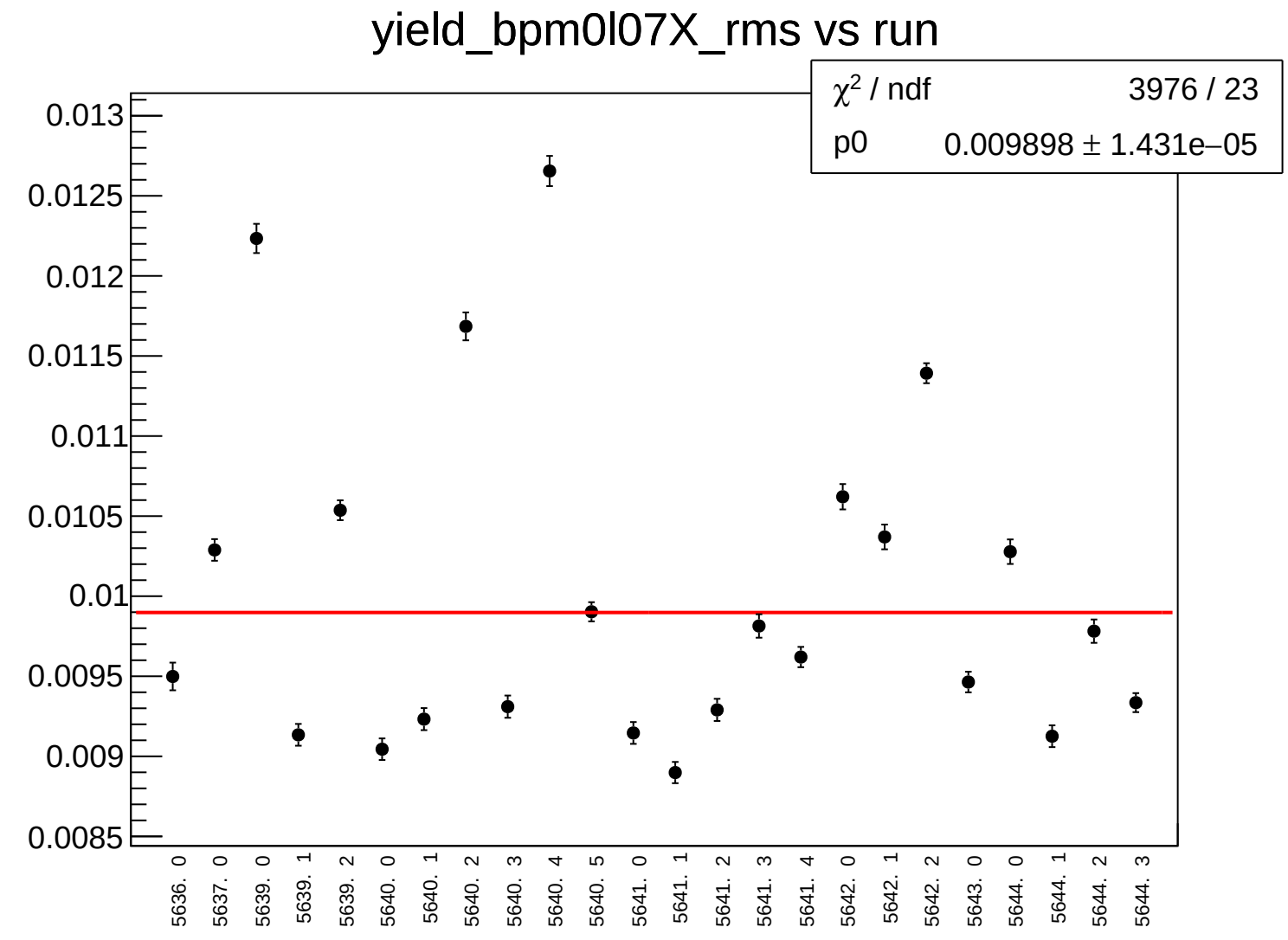

yield_bpm0l06Y_mean vs run
χ² / ndf 5.344e+04 / 23
p0 −1.566 ± 4.858e−06
−1.563
−1.5635
−1.564
−1.5645
−1.565
−1.5655
−1.566
−1.5665
−1.567
−1.5675
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 134.8
Std Dev 0
100
80
60
40
20
0
−20
−40
−60

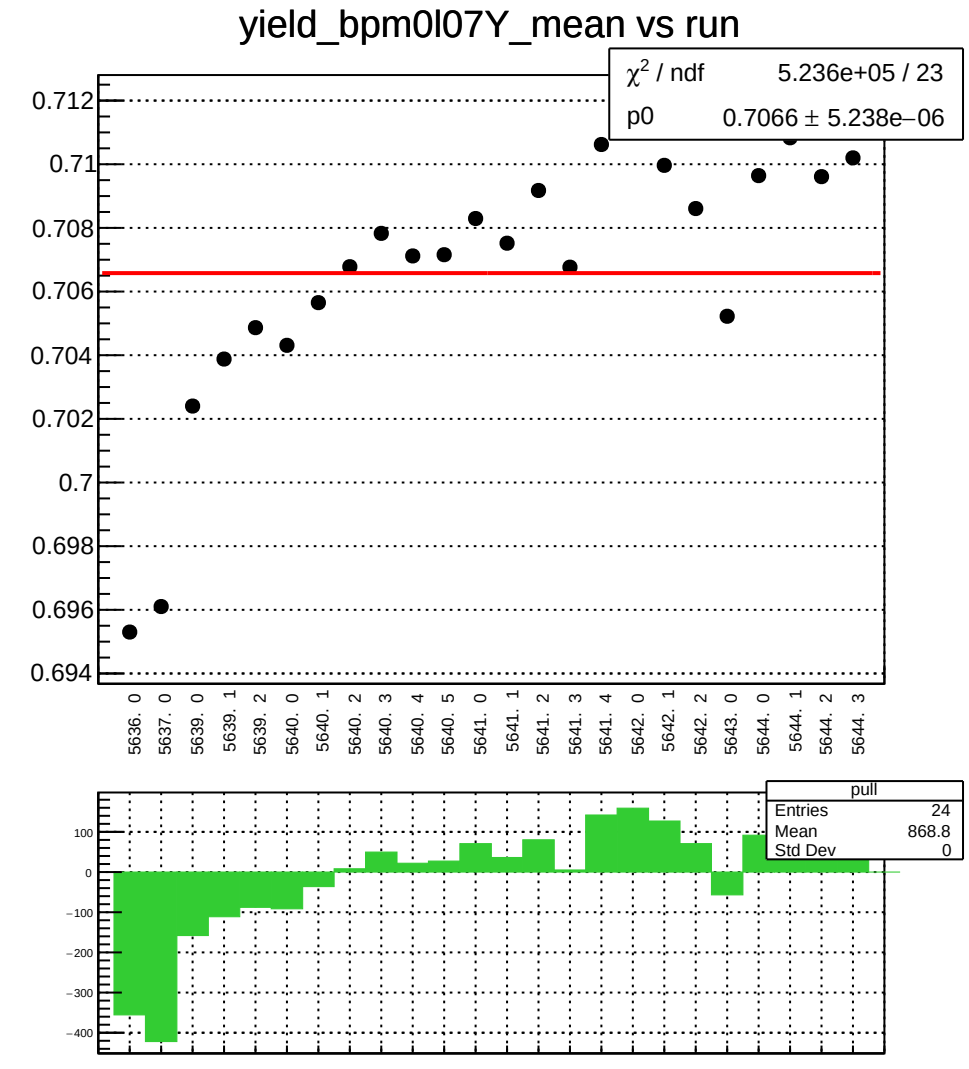

pull1D
Entries 24
Mean −2.809
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

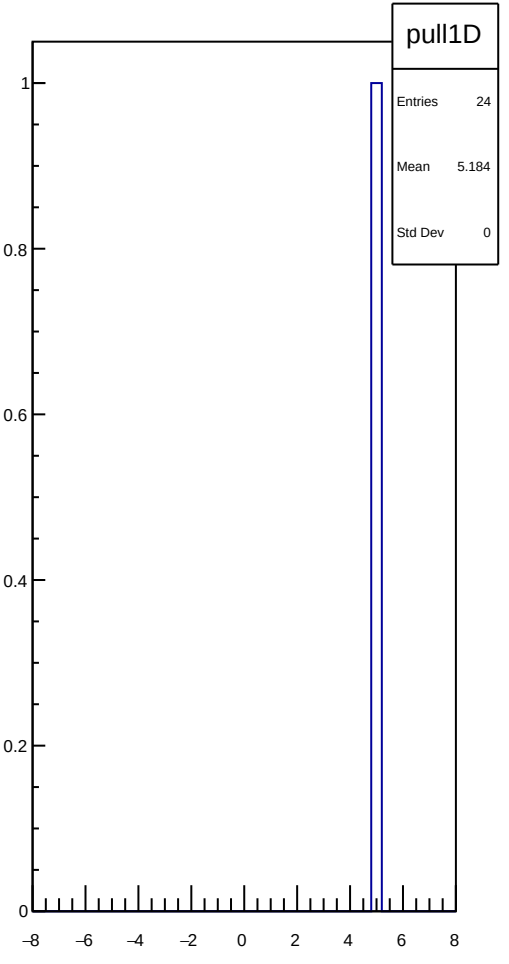

yield_bpm0l06Y_rms vs run
χ² / ndf 1334 / 23
p0 0.002382 ± 3.435e−06
0.0027
0.00265
0.0026
0.00255
0.0025
0.00245
0.0024
0.00235
0.0023
0.00225
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

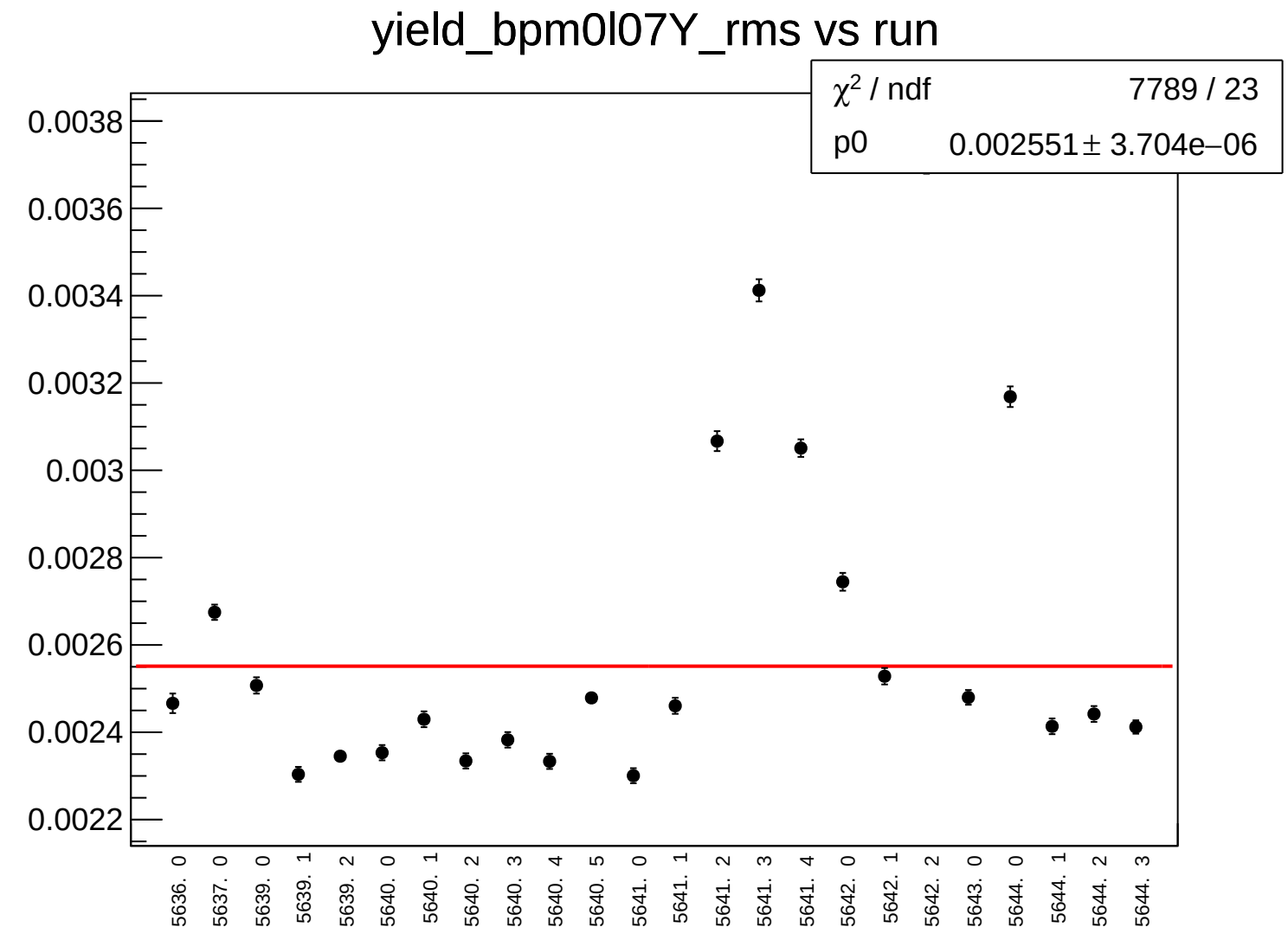

yield_bpm0l07X_mean vs run
χ² / ndf 1.188e+05 / 23
p0 0.1641 ± 2.024e−05
0.18
0.175
0.17
0.165
0.16
0.155
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −102.4
Std Dev 0
100
50
0
−50
−100

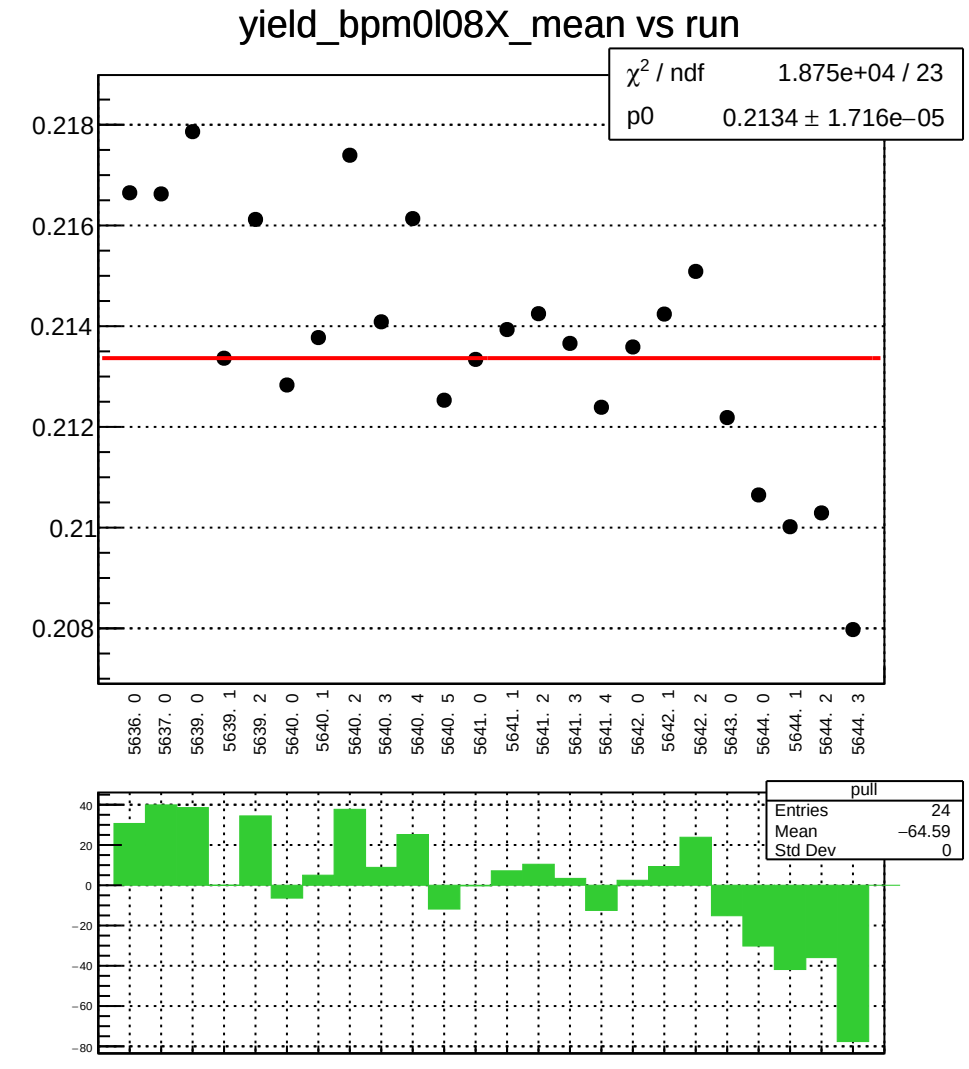

pull1D
Entries 24
Mean −0.8341
Std Dev 4.511
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

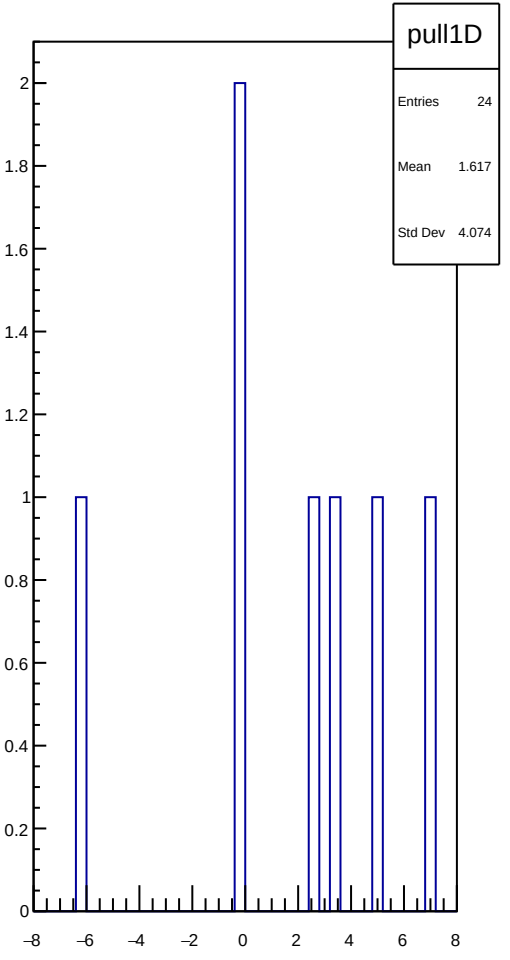

yield_bpm0l07X_rms vs run
χ² / ndf 3976 / 23
p0 0.009898 ± 1.431e−05
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009
0.0085
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

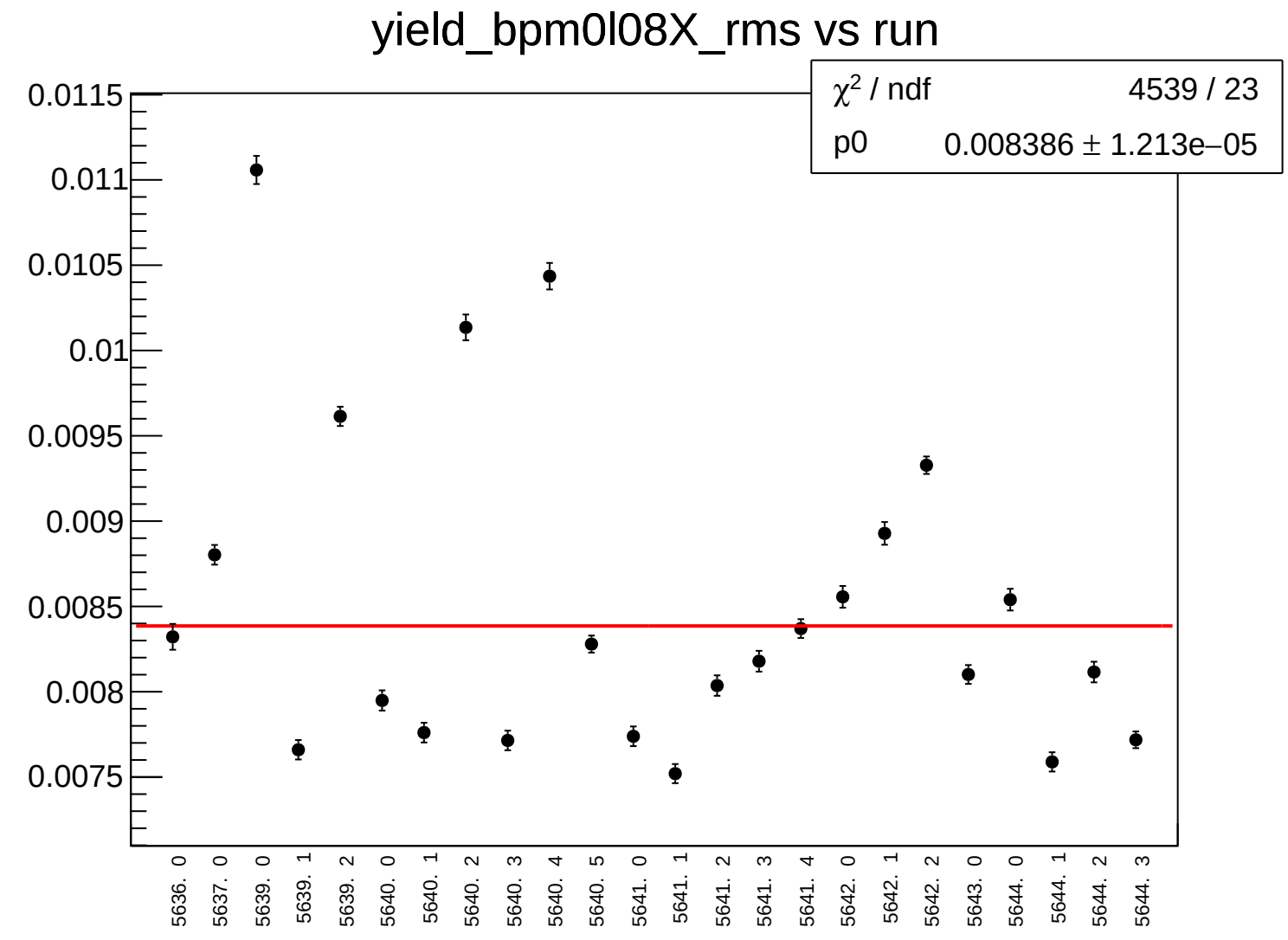

yield_bpm0l07Y_mean vs run
χ² / ndf 5.236e+05 / 23
p0 0.7066 ± 5.238e−06
0.712
0.71
0.708
0.706
0.704
0.702
0.7
0.698
0.696
0.694
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 868.8
Std Dev 0
100
0
−100
−200
−300
−400

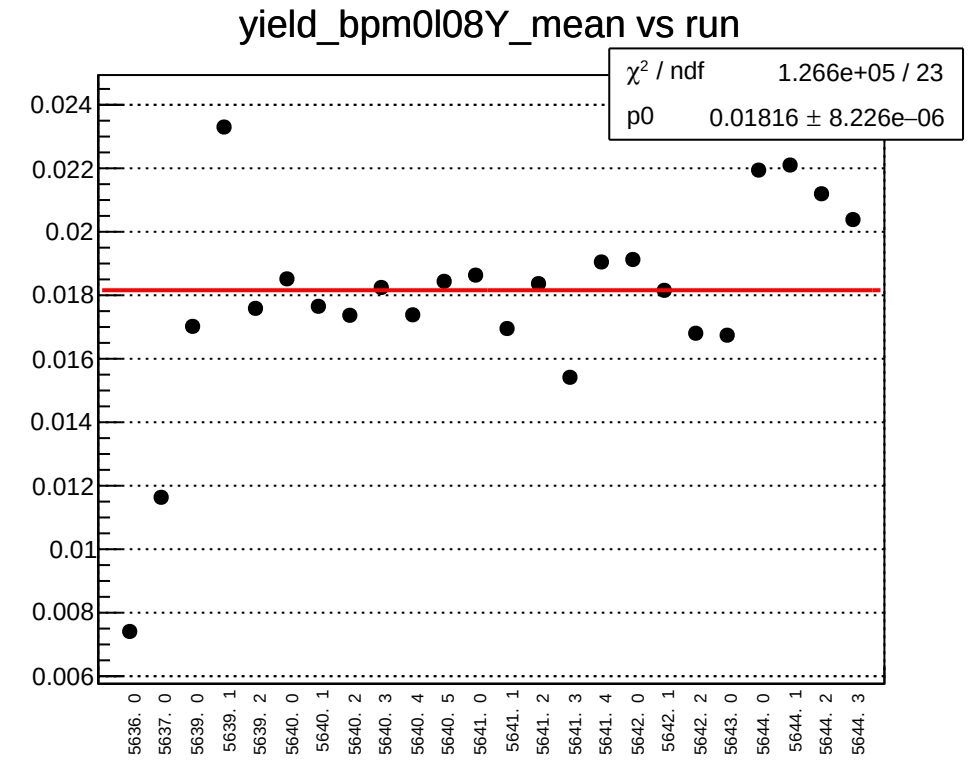

pull1D
Entries 24
Mean 5.184
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

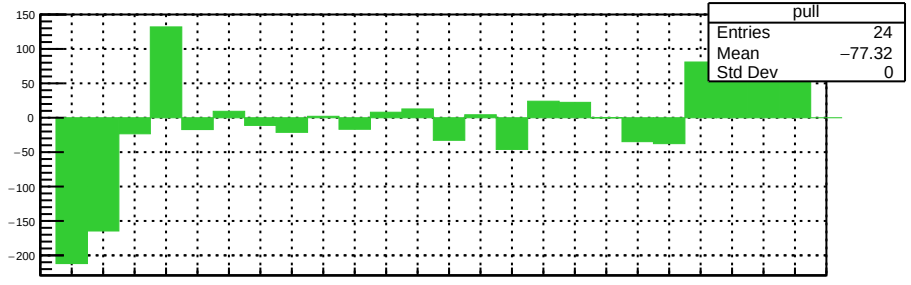

yield_bpm0l07Y_rms vs run
χ² / ndf 7789 / 23
p0 0.002551 ± 3.704e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

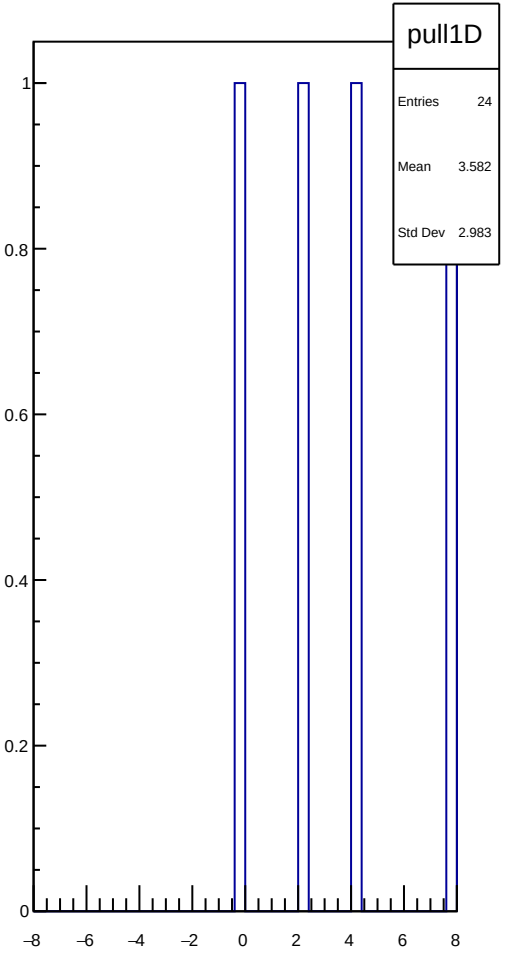

yield_bpm0l08X_mean vs run
χ² / ndf 1.875e+04 / 23
p0 0.2134 ± 1.716e−05
0.218
0.216
0.214
0.212
0.21
0.208
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −64.59
Std Dev 0
40
20
0
−20
−40
−60
−80

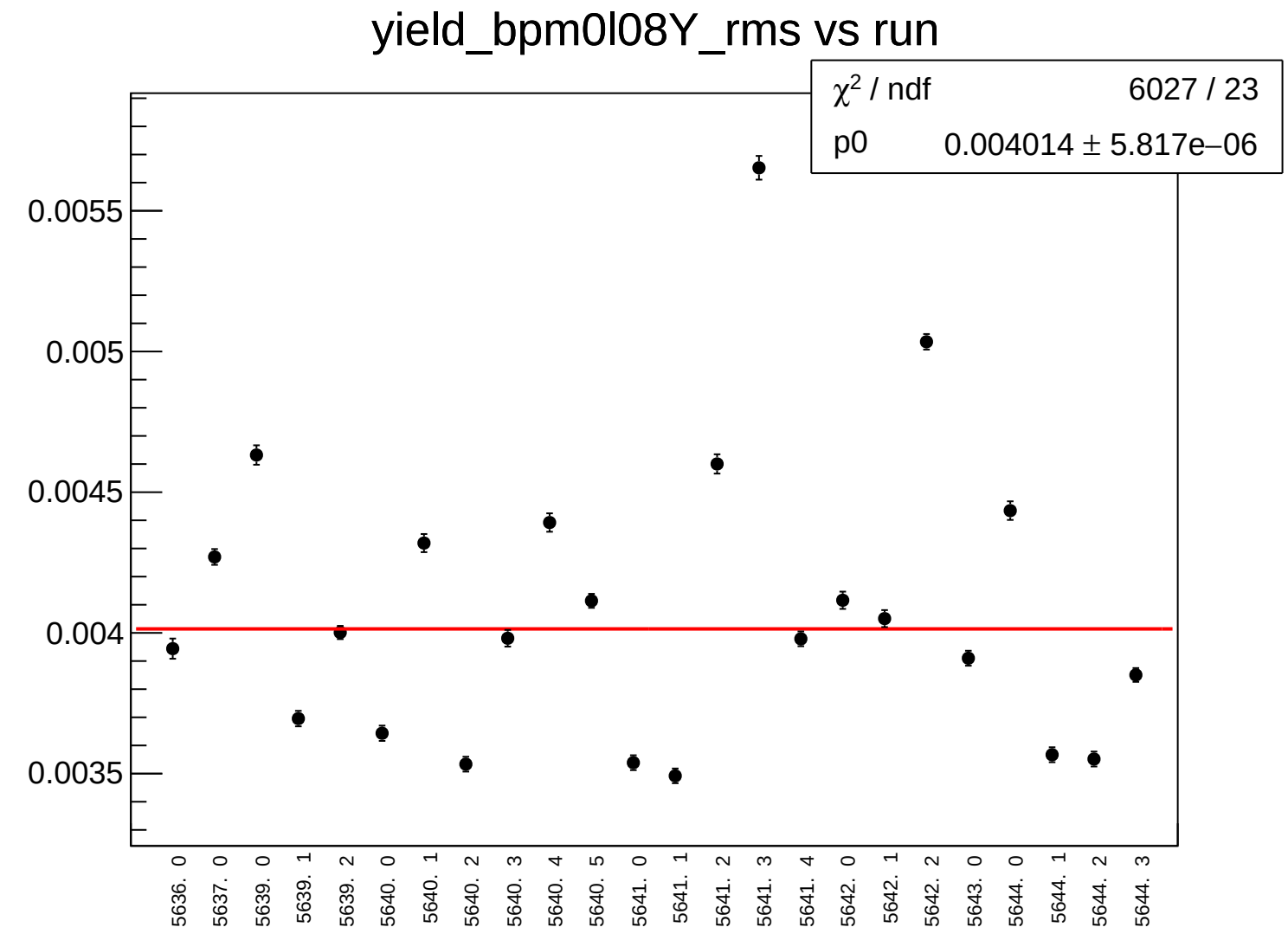

pull1D
Entries 24
Mean 1.617
Std Dev 4.074
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

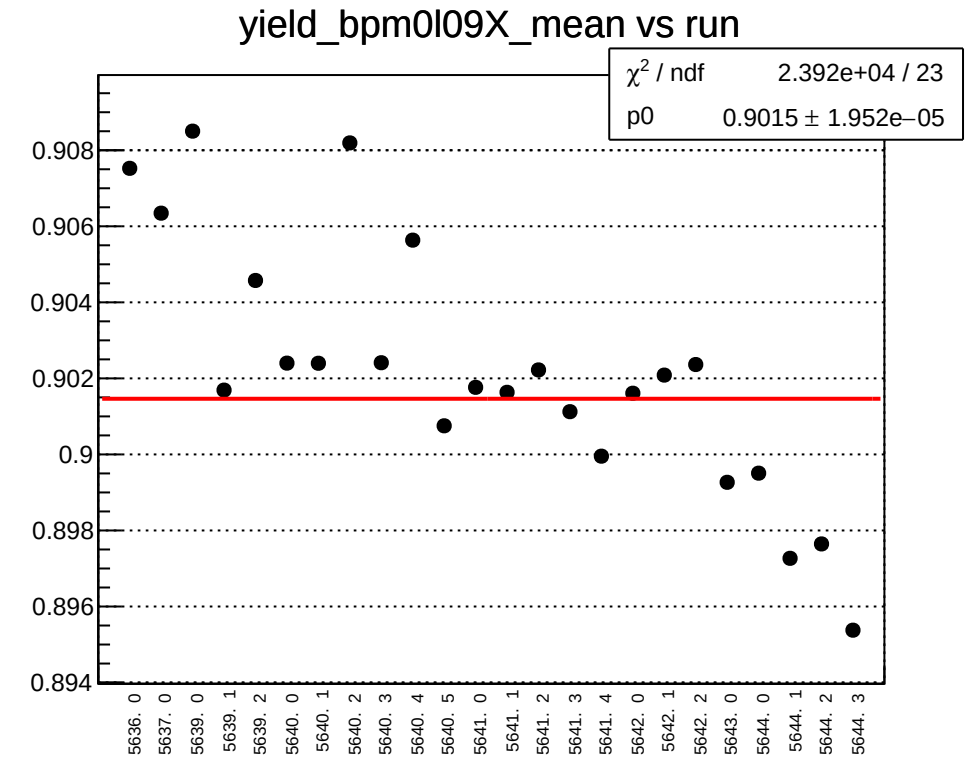

yield_bpm0l08X_rms vs run
χ² / ndf 4539 / 23
p0 0.008386 ± 1.213e−05
0.0115
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

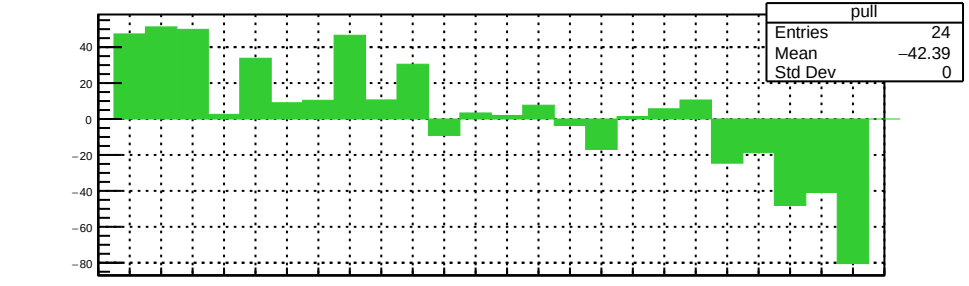

yield_bpm0l08Y_mean vs run
χ² / ndf 1.266e+05 / 23
p0 0.01816 ± 8.226e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

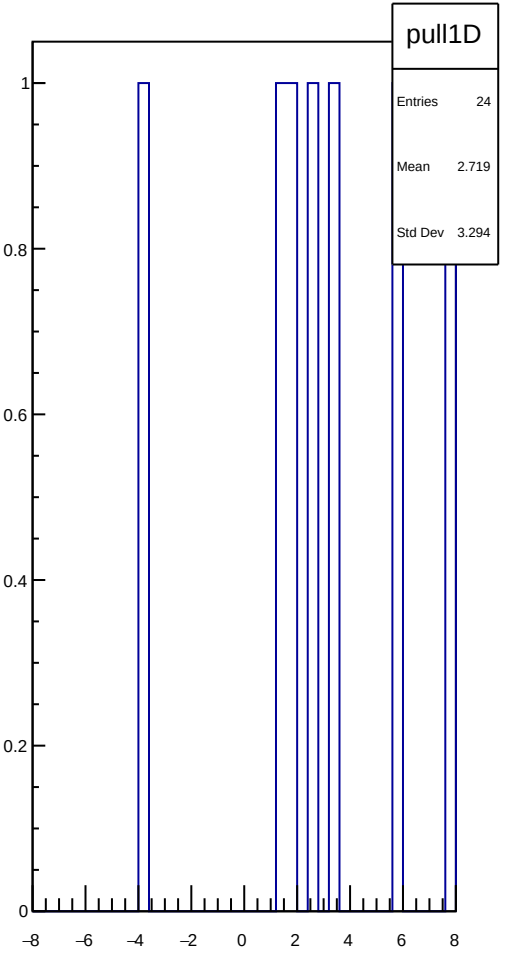

pull
Entries 24
Mean −77.32
Std Dev 0
150
100
50
0
−50
−100
−150
−200

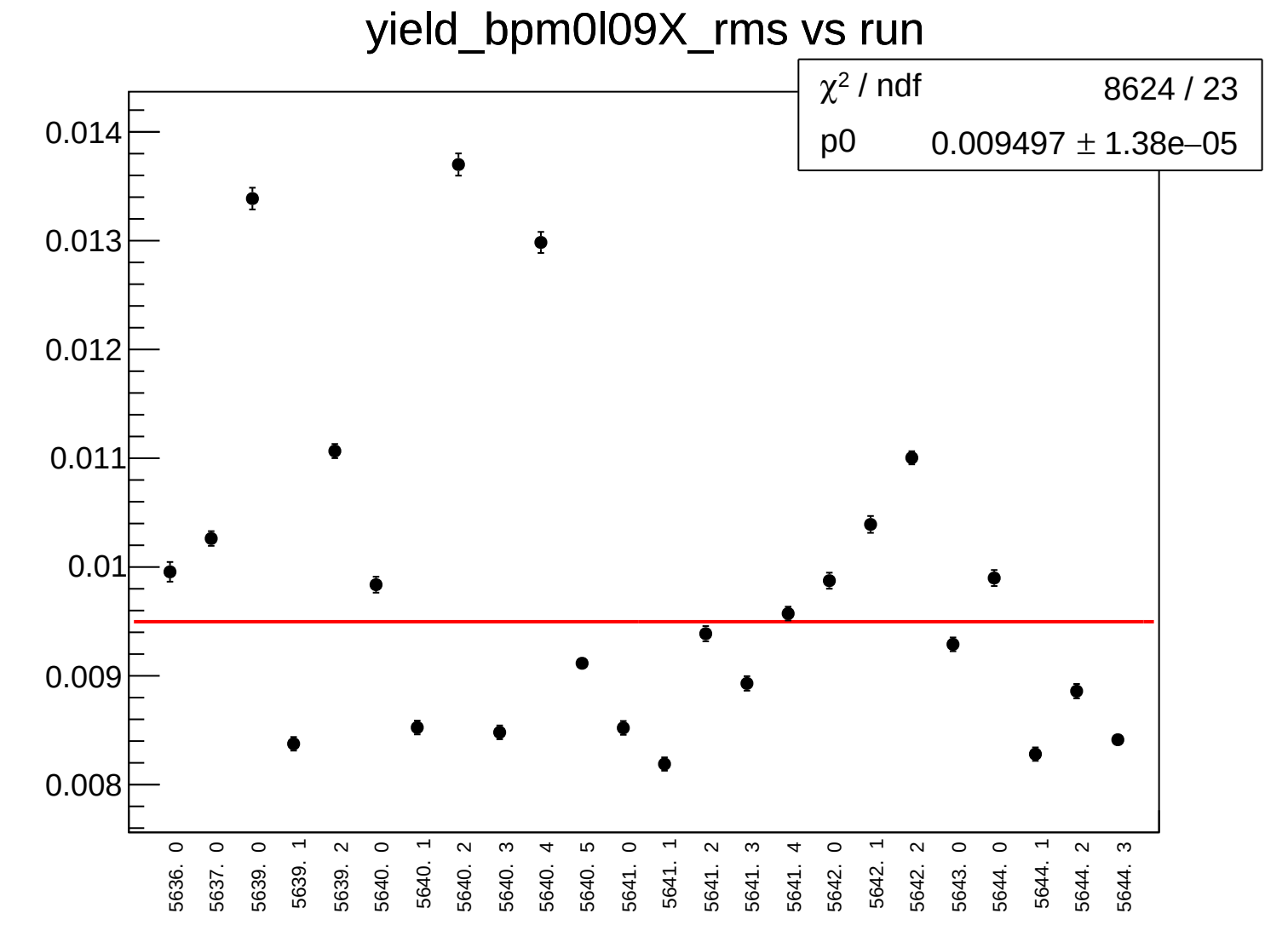

pull1D
Entries 24
Mean 3.582
Std Dev 2.983
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

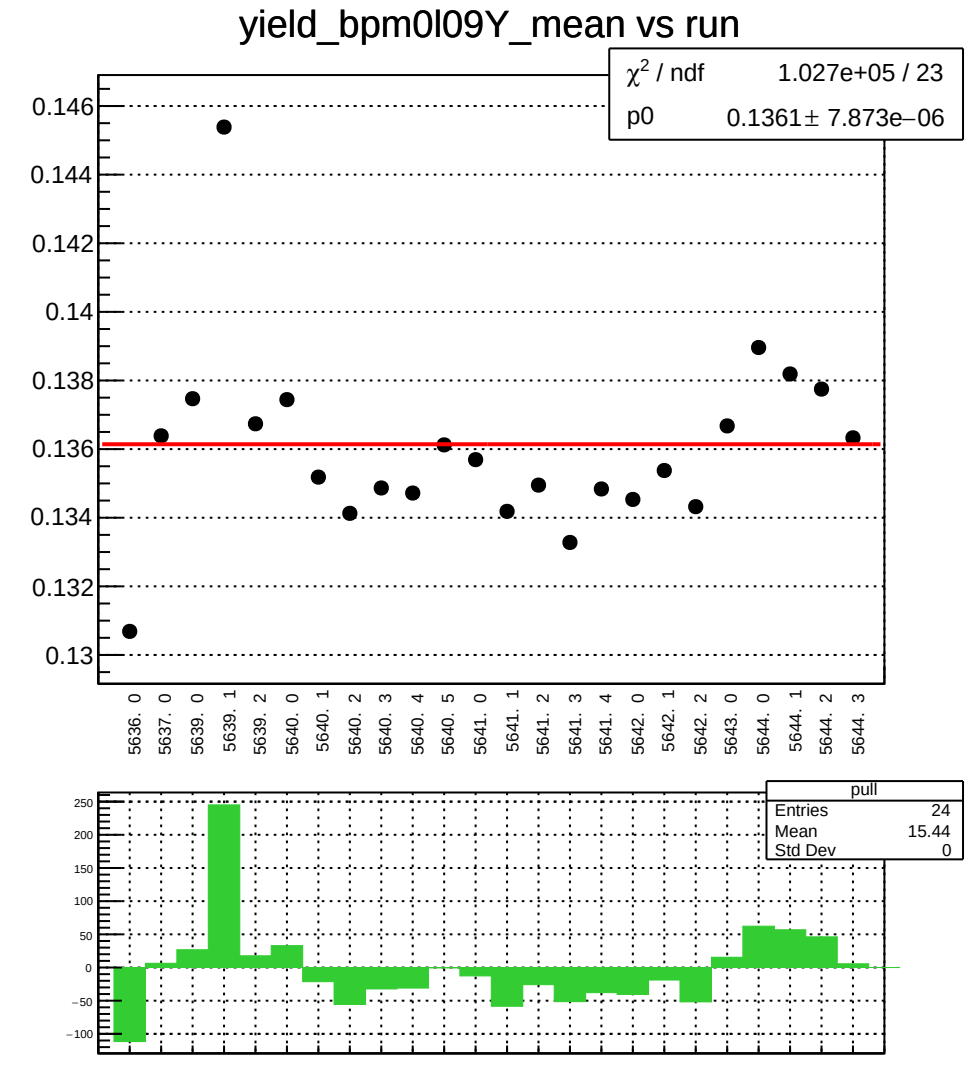

yield_bpm0l08Y_rms vs run
χ² / ndf 6027 / 23
p0 0.004014 ± 5.817e−06
0.0055
0.005
0.0045
0.004
0.0035
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

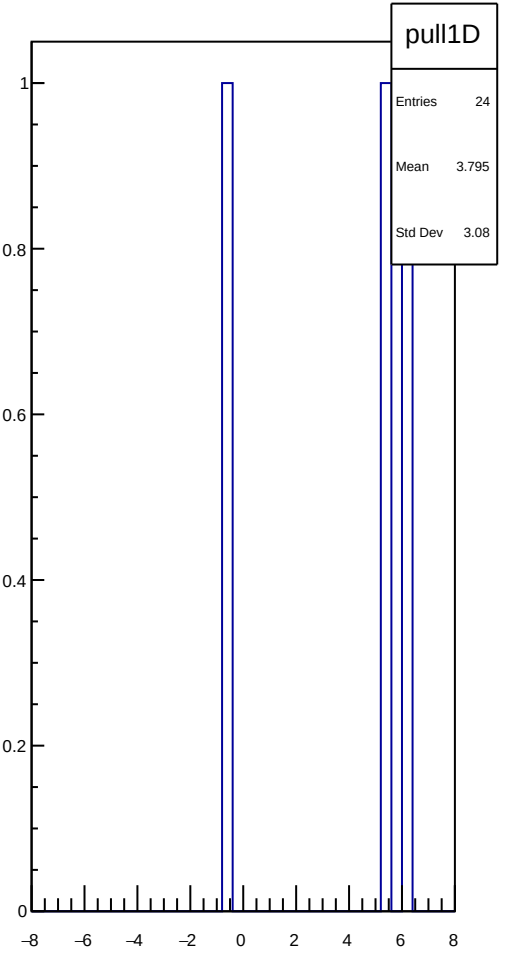

yield_bpm0l09X_mean vs run
χ² / ndf 2.392e+04 / 23
p0 0.9015 ± 1.952e−05
0.908
0.906
0.904
0.902
0.9
0.898
0.896
0.894
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

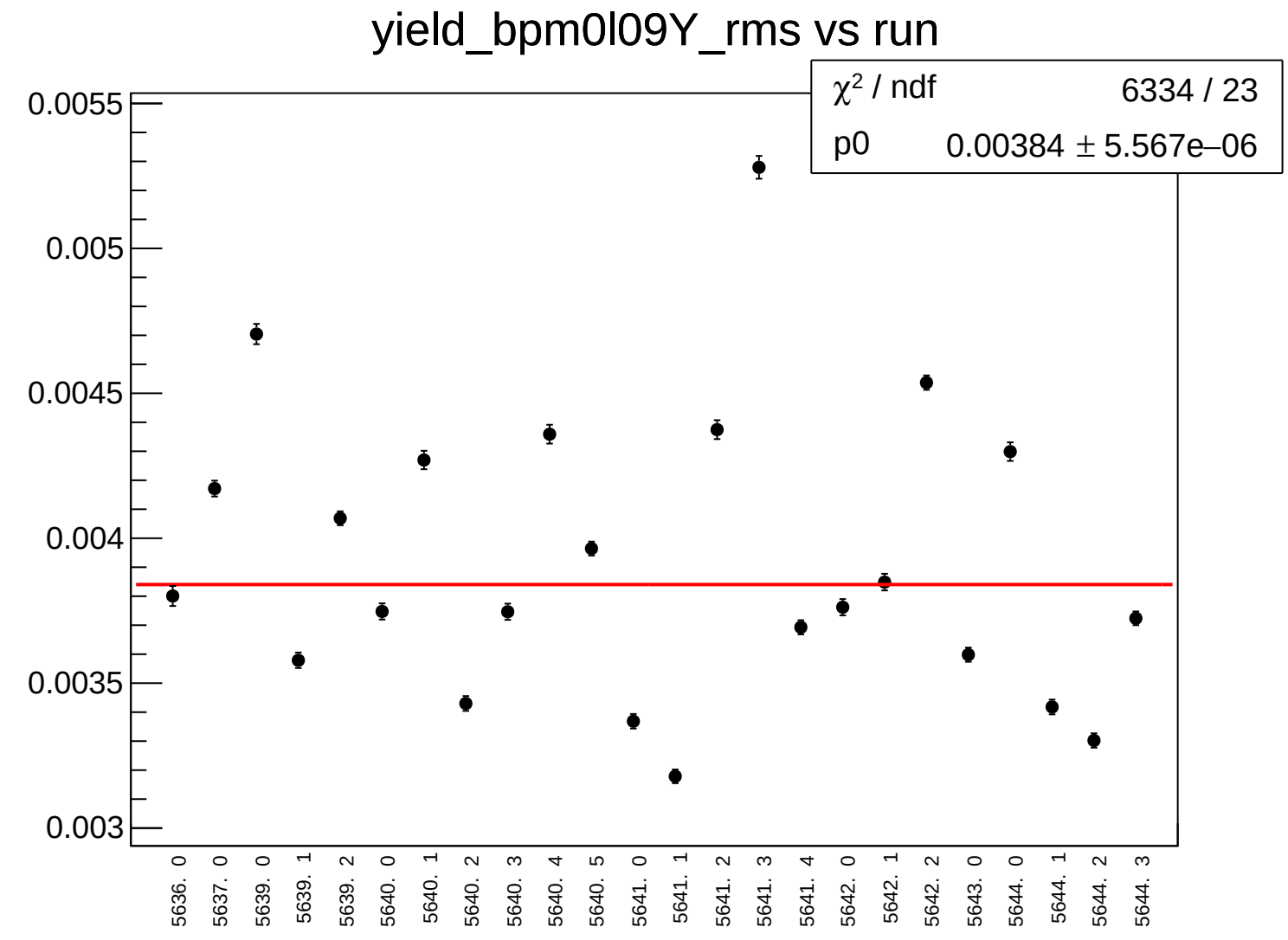

pull
Entries 24
Mean −42.39
Std Dev 0
40
20
0
−20
−40
−60
−80

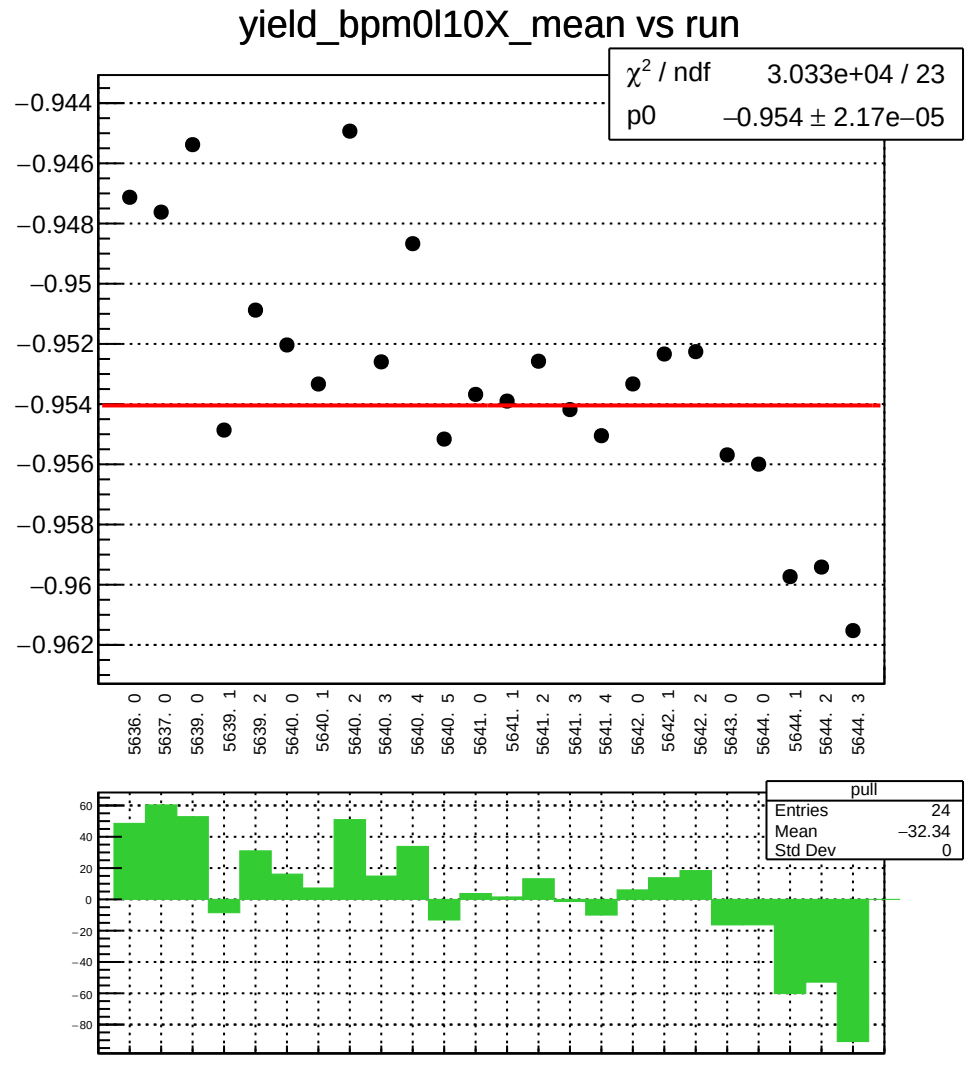

pull1D
Entries 24
Mean 2.719
Std Dev 3.294
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

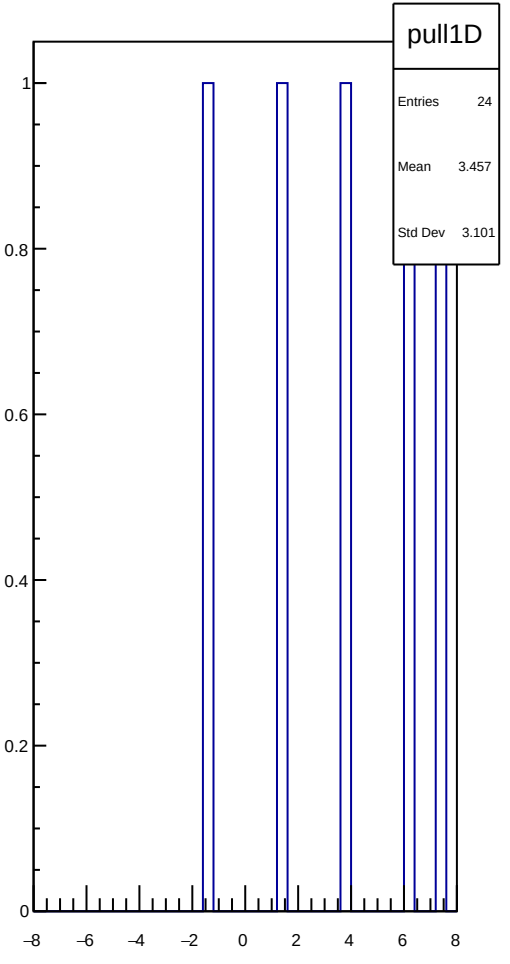

yield_bpm0l09X_rms vs run
χ² / ndf 8624 / 23
p0 0.009497 ± 1.38e−05
0.014
0.013
0.012
0.011
0.01
0.009
0.008
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

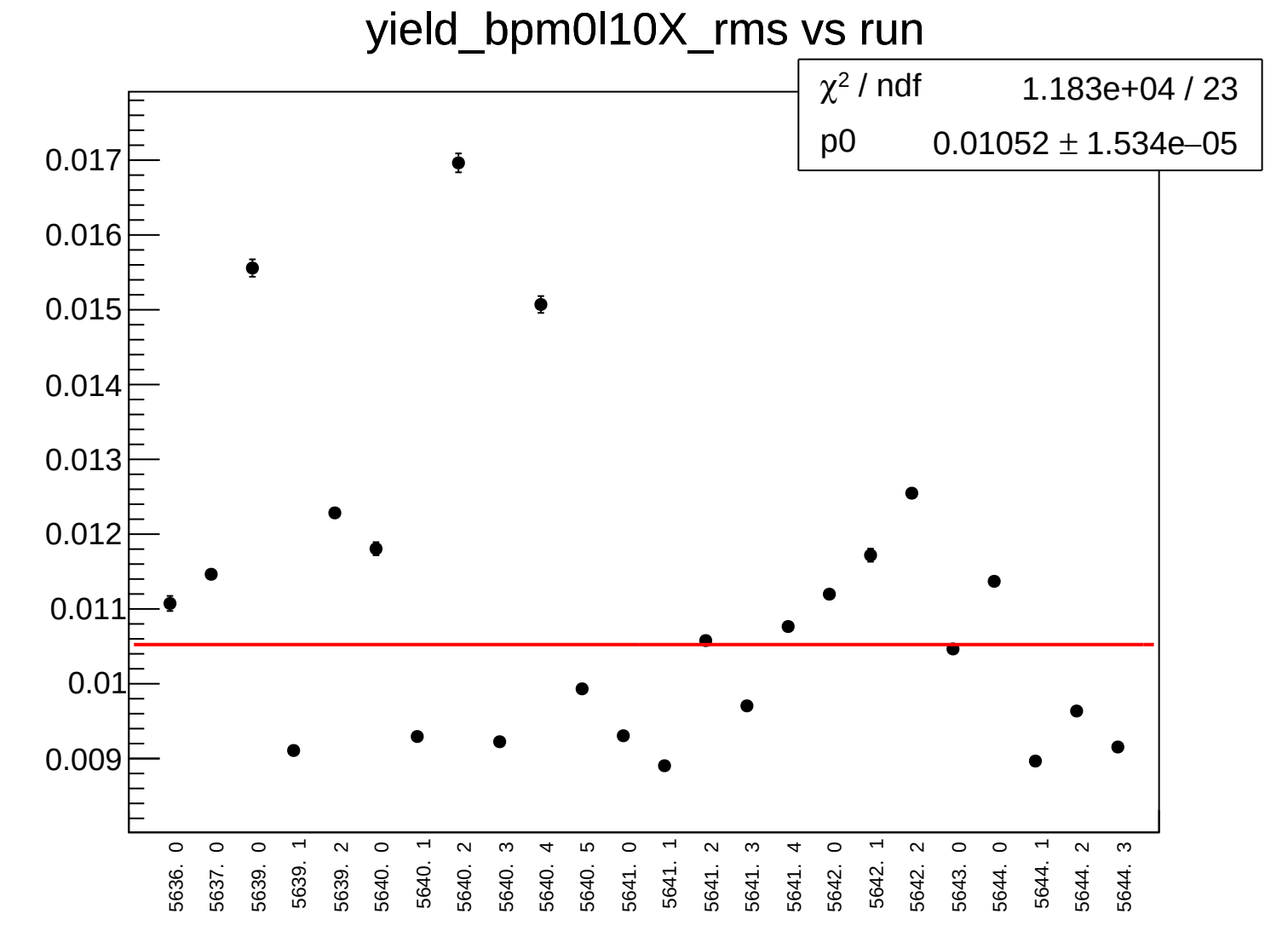

yield_bpm0l09Y_mean vs run
χ² / ndf 1.027e+05 / 23
p0 0.1361 ± 7.873e−06
0.146
0.144
0.142
0.14
0.138
0.136
0.134
0.132
0.13
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 15.44
Std Dev 0
250
200
150
100
50
0
−50
−100

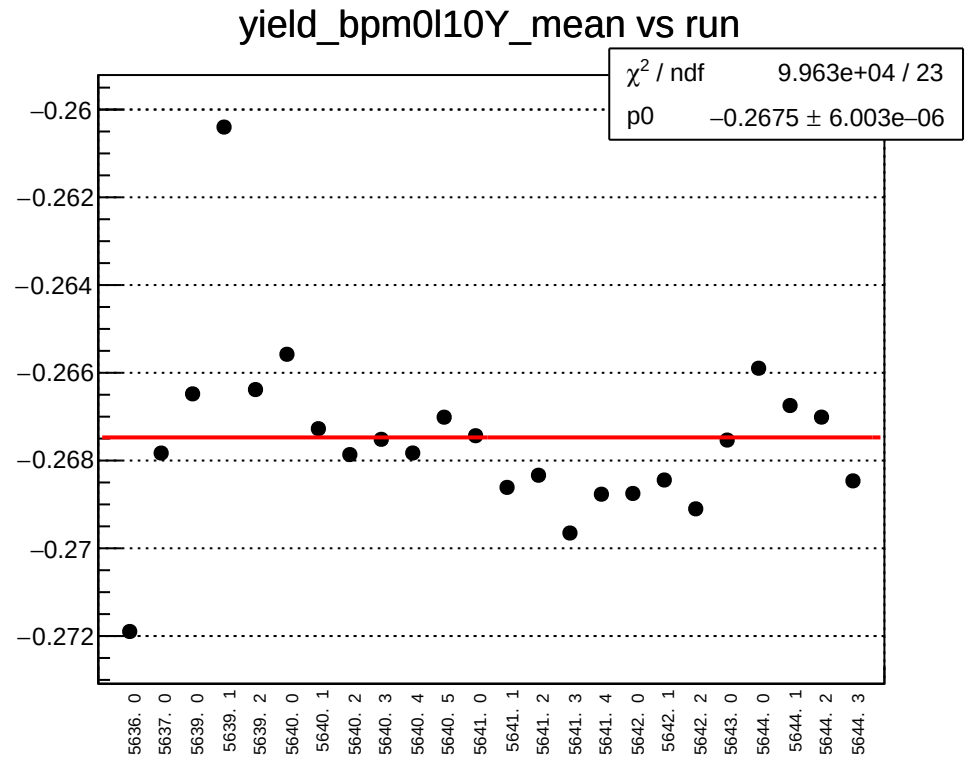

pull1D
Entries 24
Mean 3.795
Std Dev 3.08
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

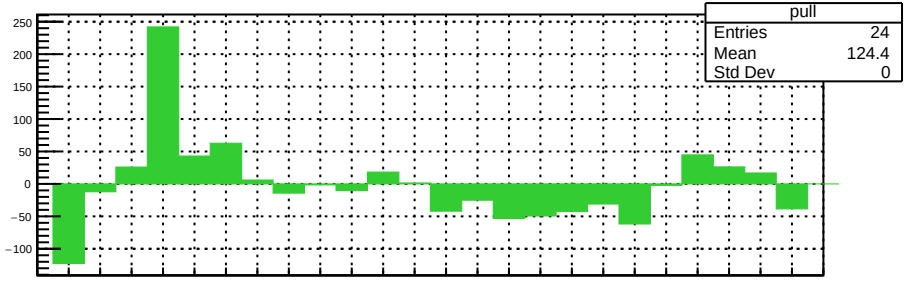

yield_bpm0l09Y_rms vs run
χ² / ndf 6334 / 23
p0 0.00384 ± 5.567e–06
0.0055
0.005
0.0045
0.004
0.0035
0.003
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

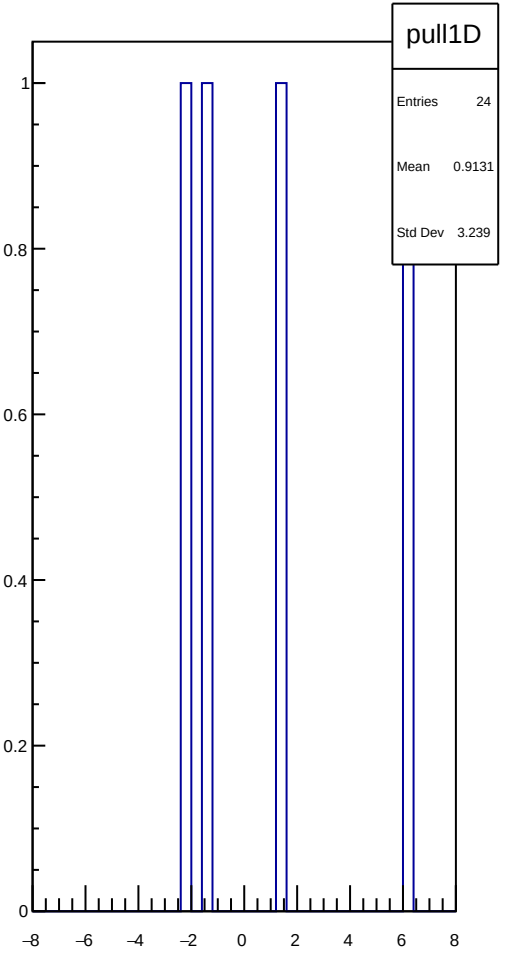

yield_bpm0l10X_mean vs run
χ² / ndf 3.033e+04 / 23
p0 −0.954 ± 2.17e−05
−0.944
−0.946
−0.948
−0.95
−0.952
−0.954
−0.956
−0.958
−0.96
−0.962
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −32.34
Std Dev 0
60
40
20
0
−20
−40
−60
−80

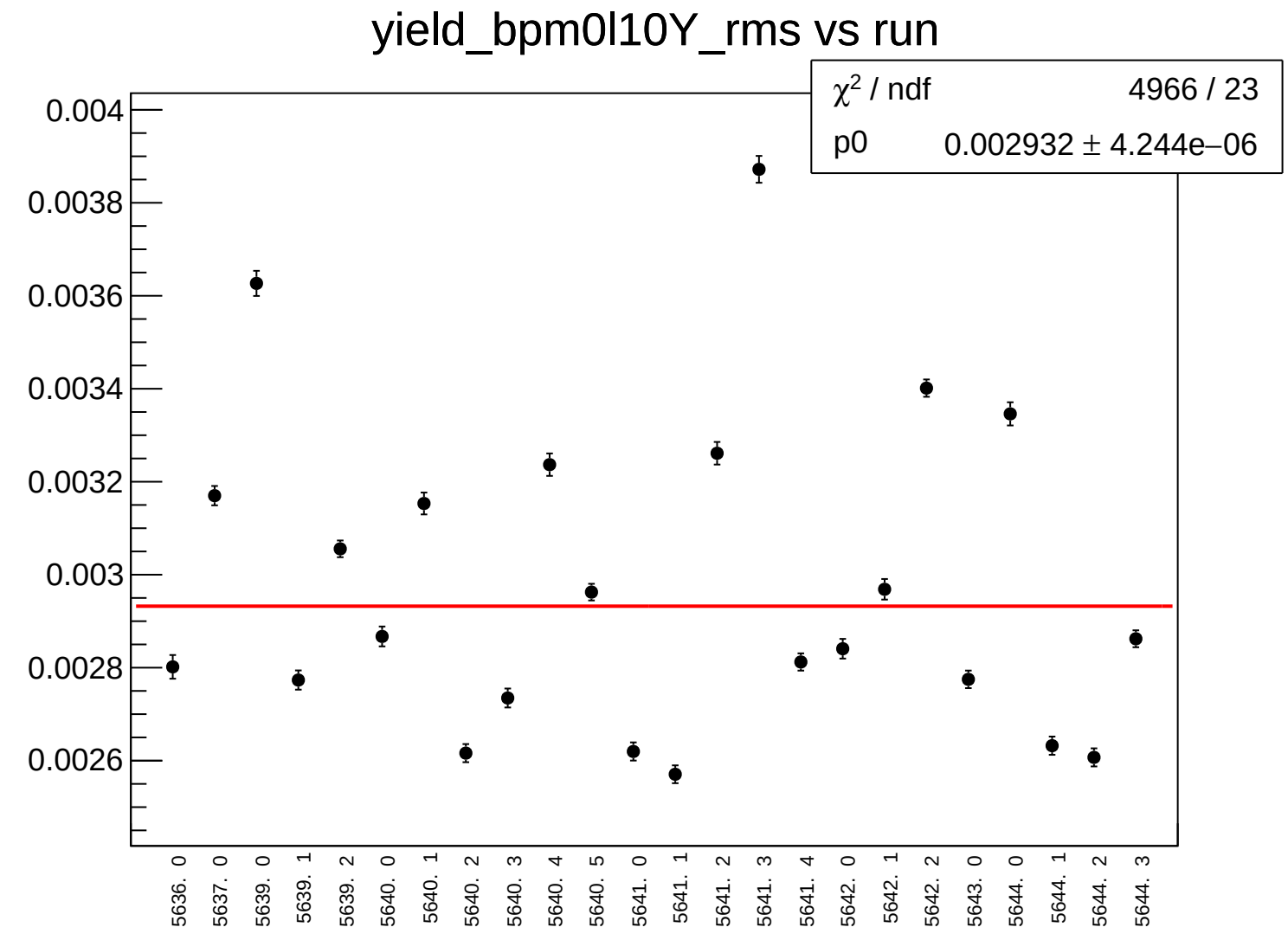

pull1D
Entries 24
Mean 3.457
Std Dev 3.101
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

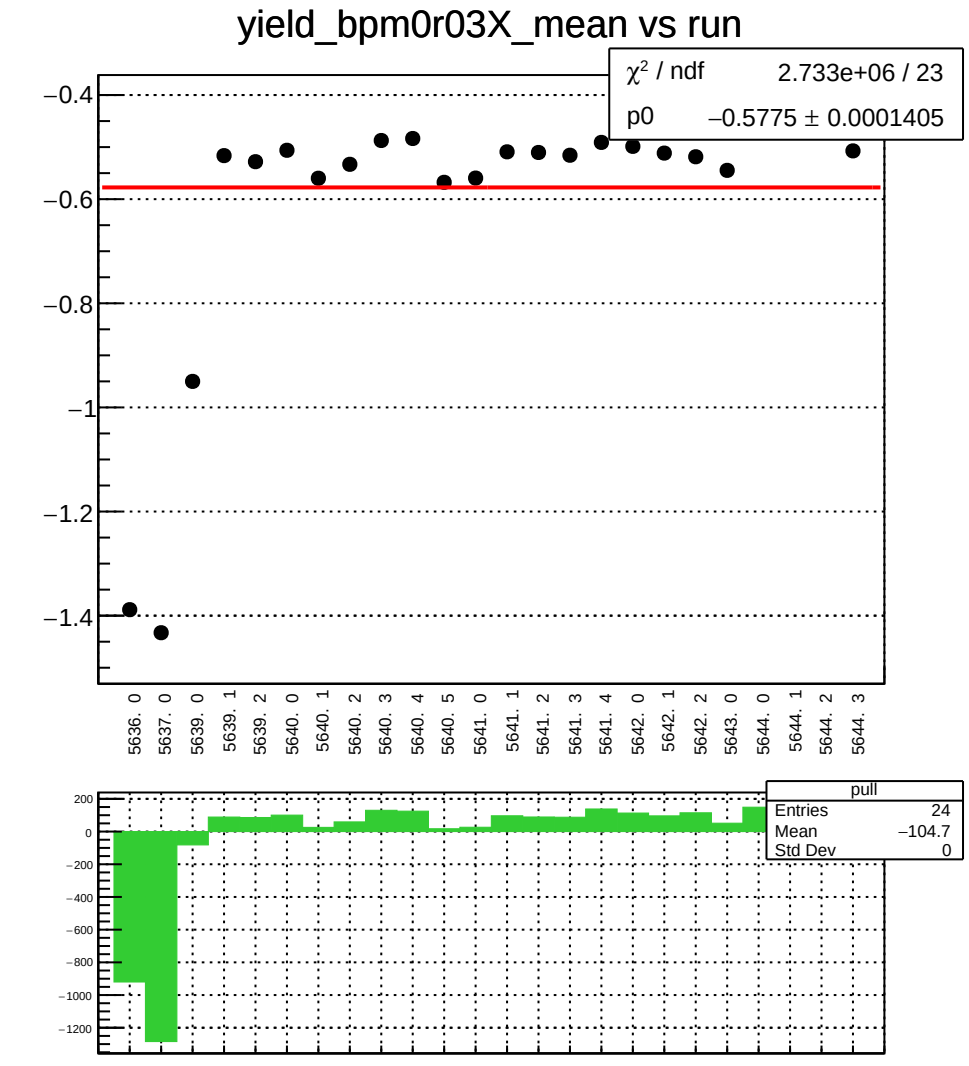

yield_bpm0l10X_rms vs run
χ² / ndf 1.183e+04 / 23
p0 0.01052 ± 1.534e–05
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

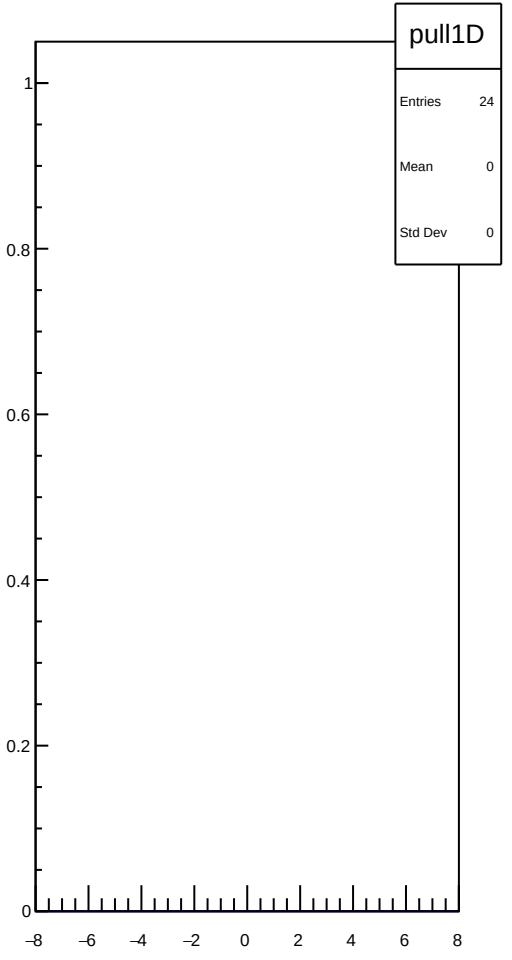

yield_bpm0l10Y_mean vs run
χ² / ndf 9.963e+04 / 23
p0 −0.2675 ± 6.003e−06
−0.26
−0.262
−0.264
−0.266
−0.268
−0.27
−0.272
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

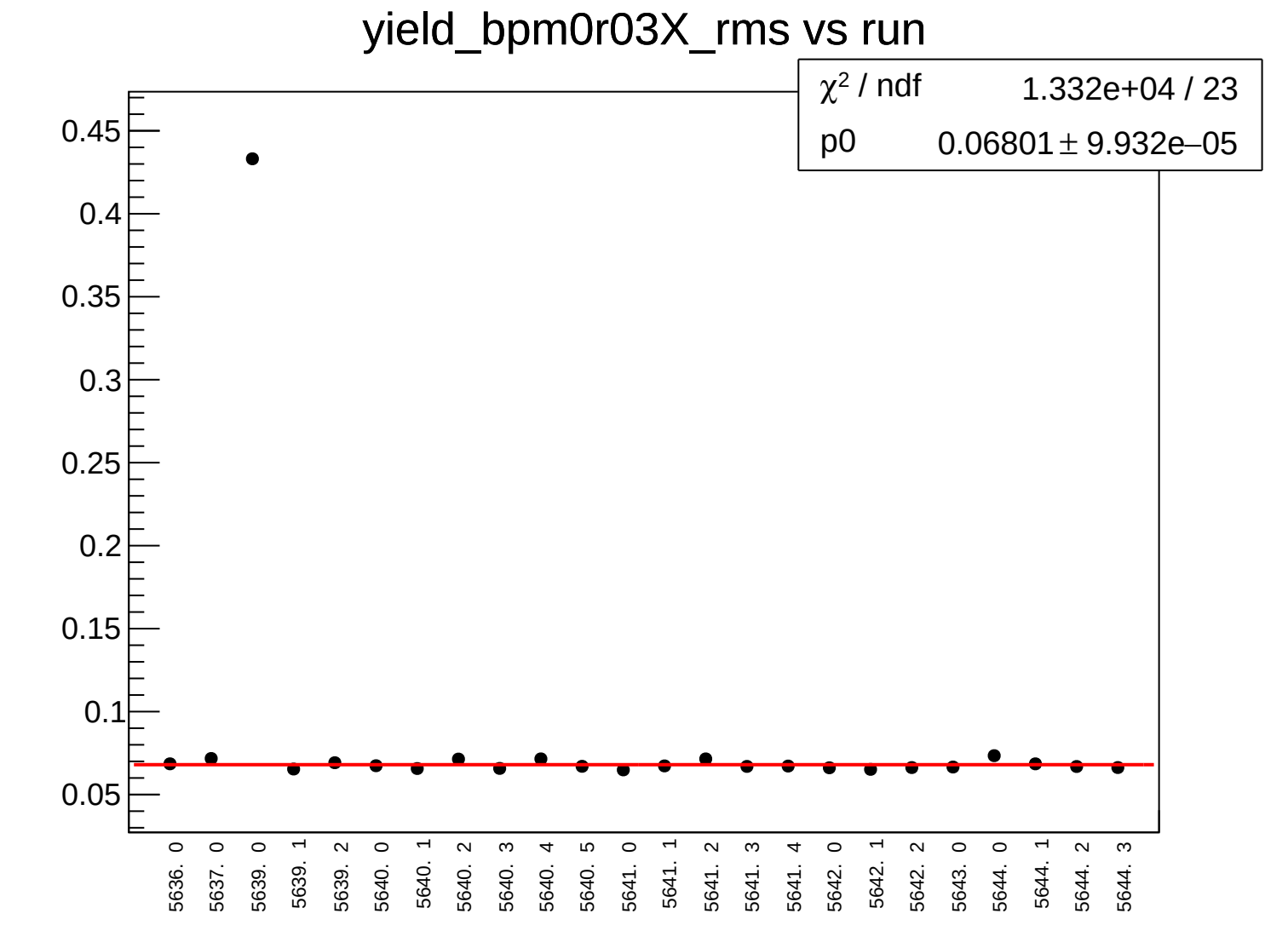

pull
Entries 24
Mean 124.4
Std Dev 0
250
200
150
100
50
0
−50
−100

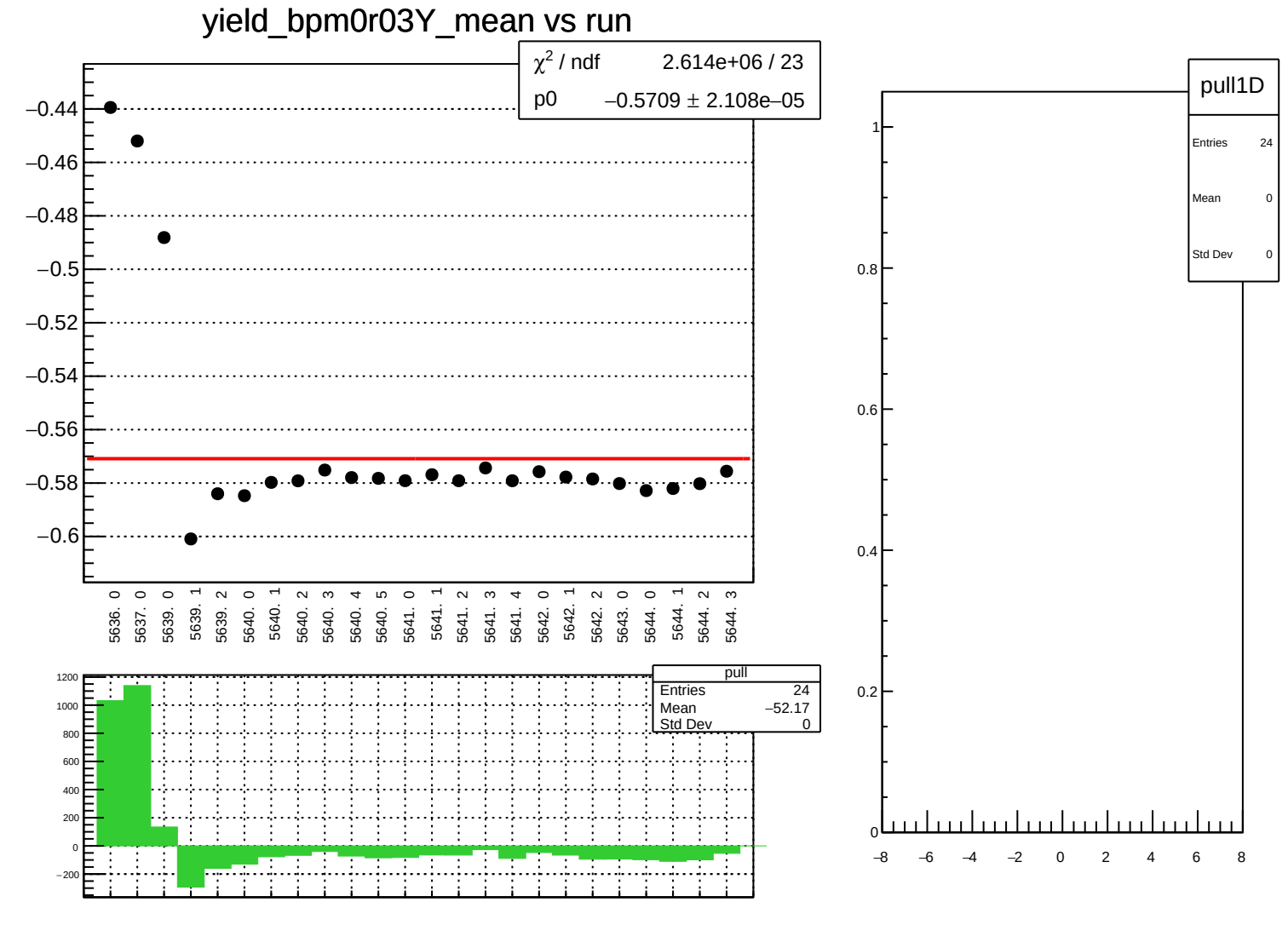

pull1D
Entries 24
Mean 0.9131
Std Dev 3.239
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

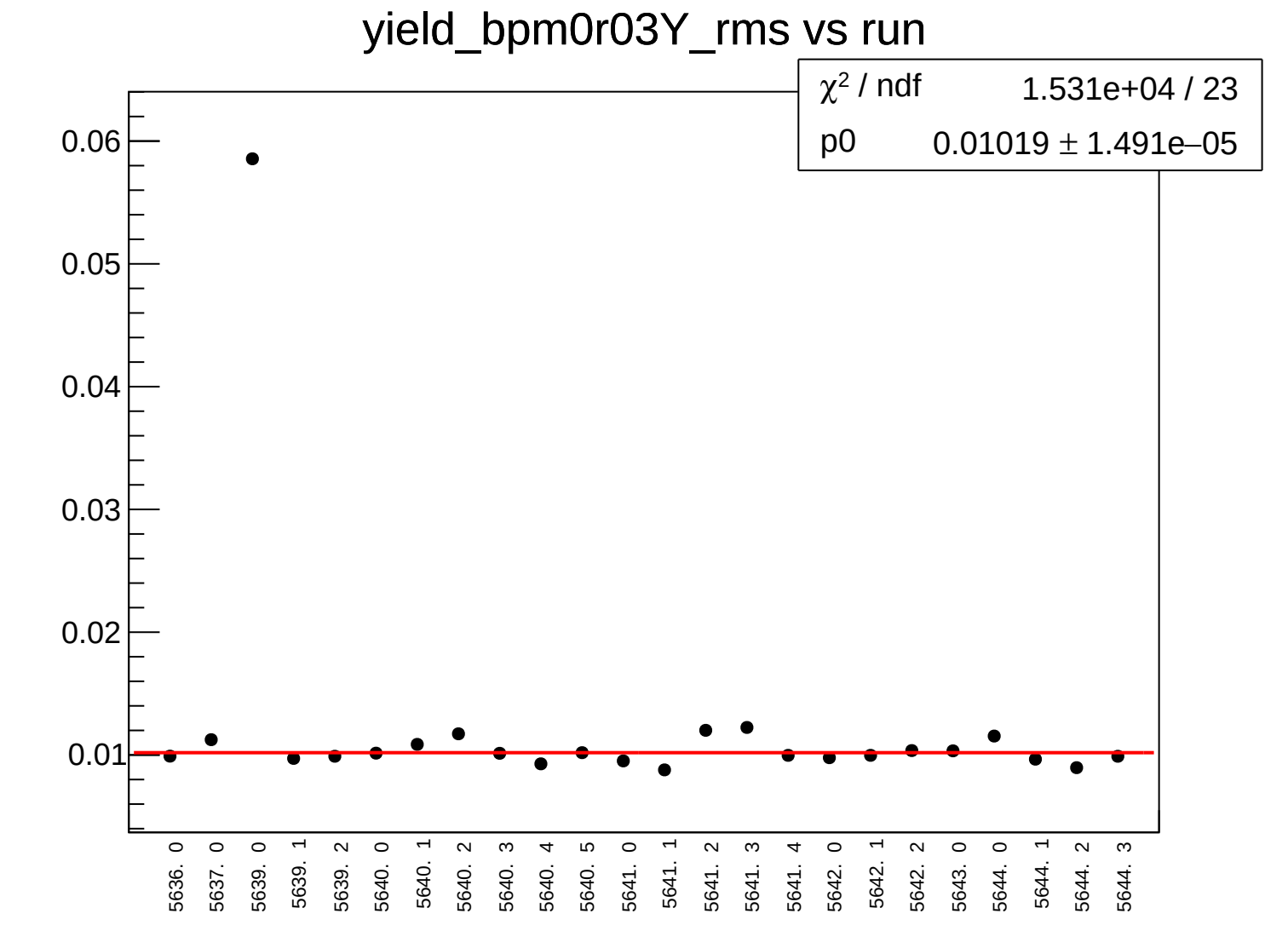

yield_bpm0l10Y_rms vs run
χ² / ndf 4966 / 23
p0 0.002932 ± 4.244e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

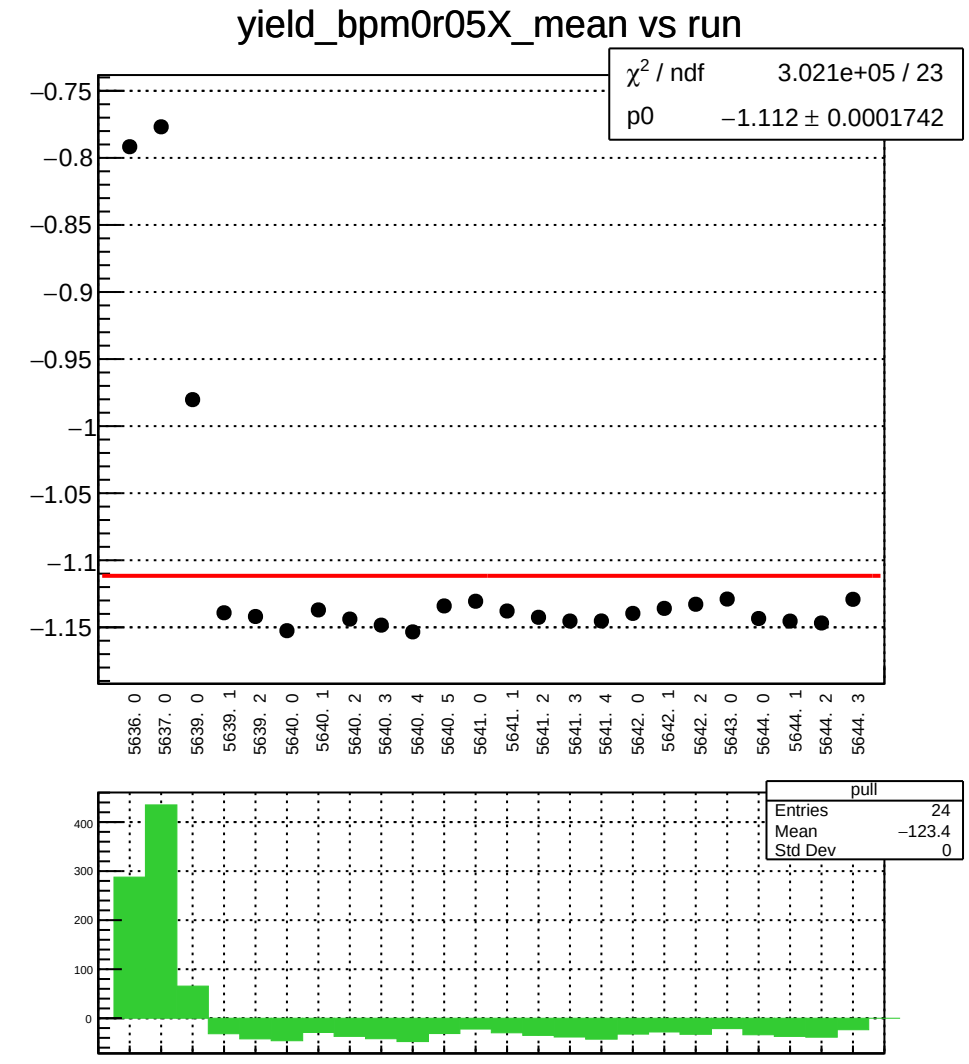

yield_bpm0r03X_mean vs run
χ² / ndf 2.733e+06 / 23
p0 −0.5775 ± 0.0001405
−0.4
−0.6
−0.8
−1
−1.2
−1.4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −104.7
Std Dev 0
200
0
−200
−400
−600
−800
−1000
−1200

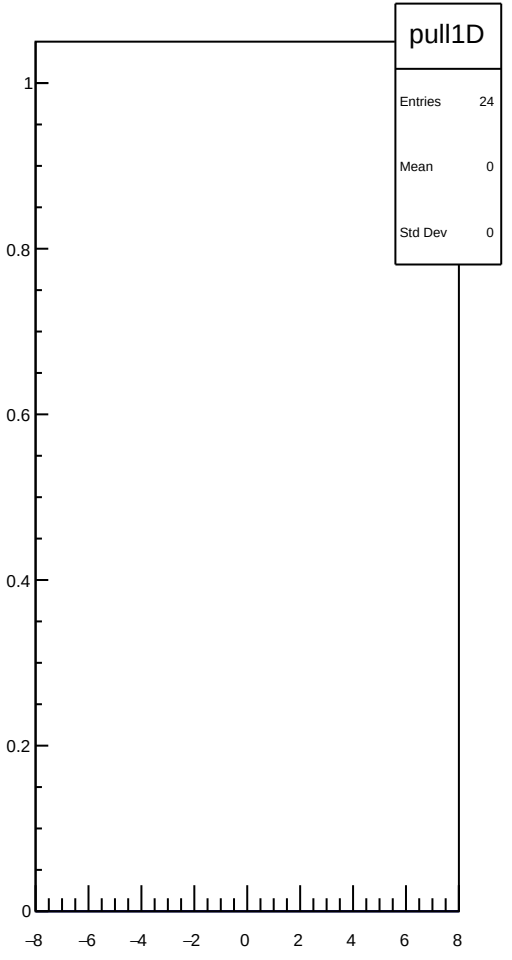

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

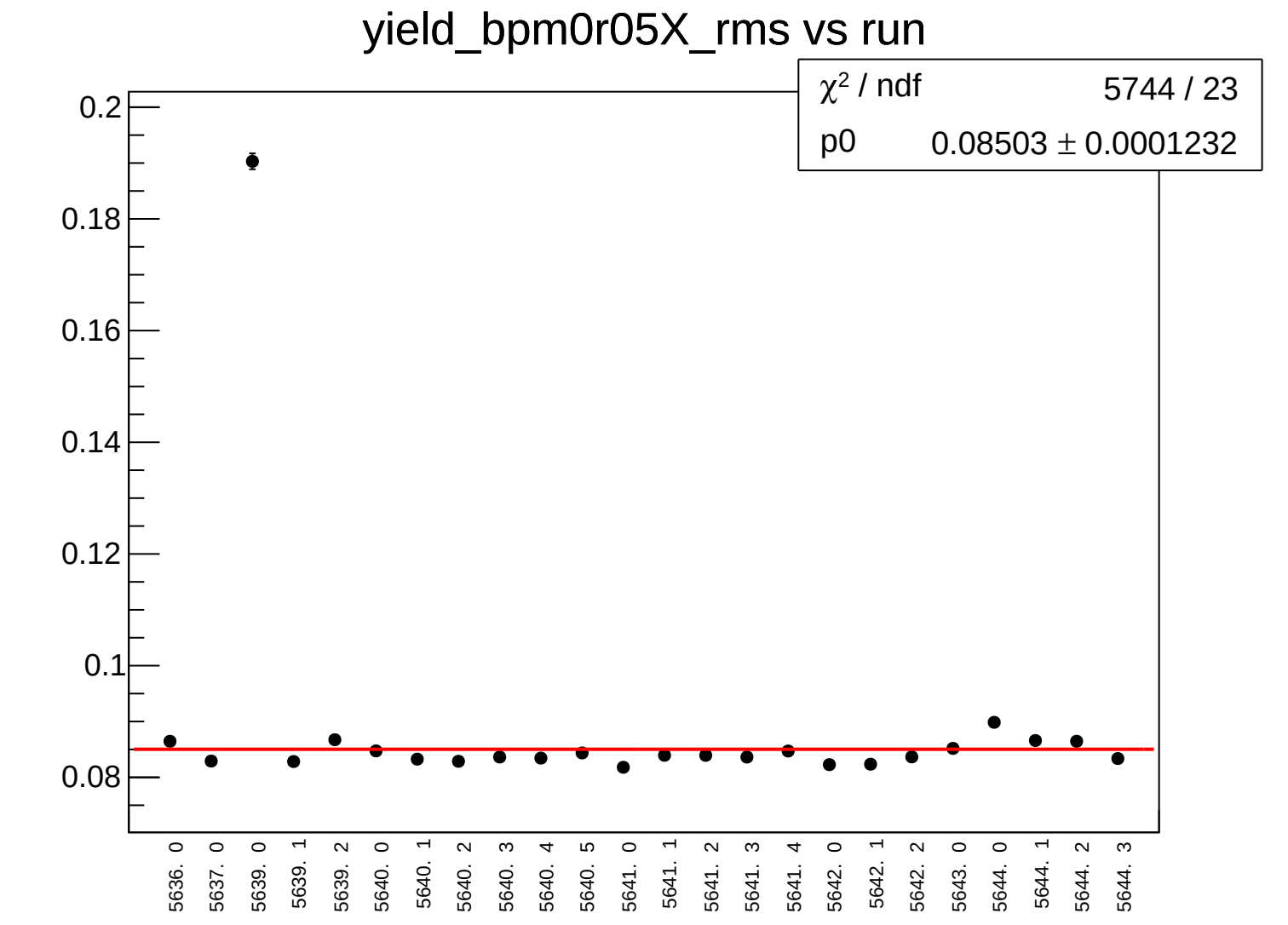

yield_bpm0r03X_rms vs run
χ² / ndf 1.332e+04 / 23
p0 0.06801 ± 9.932e–05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

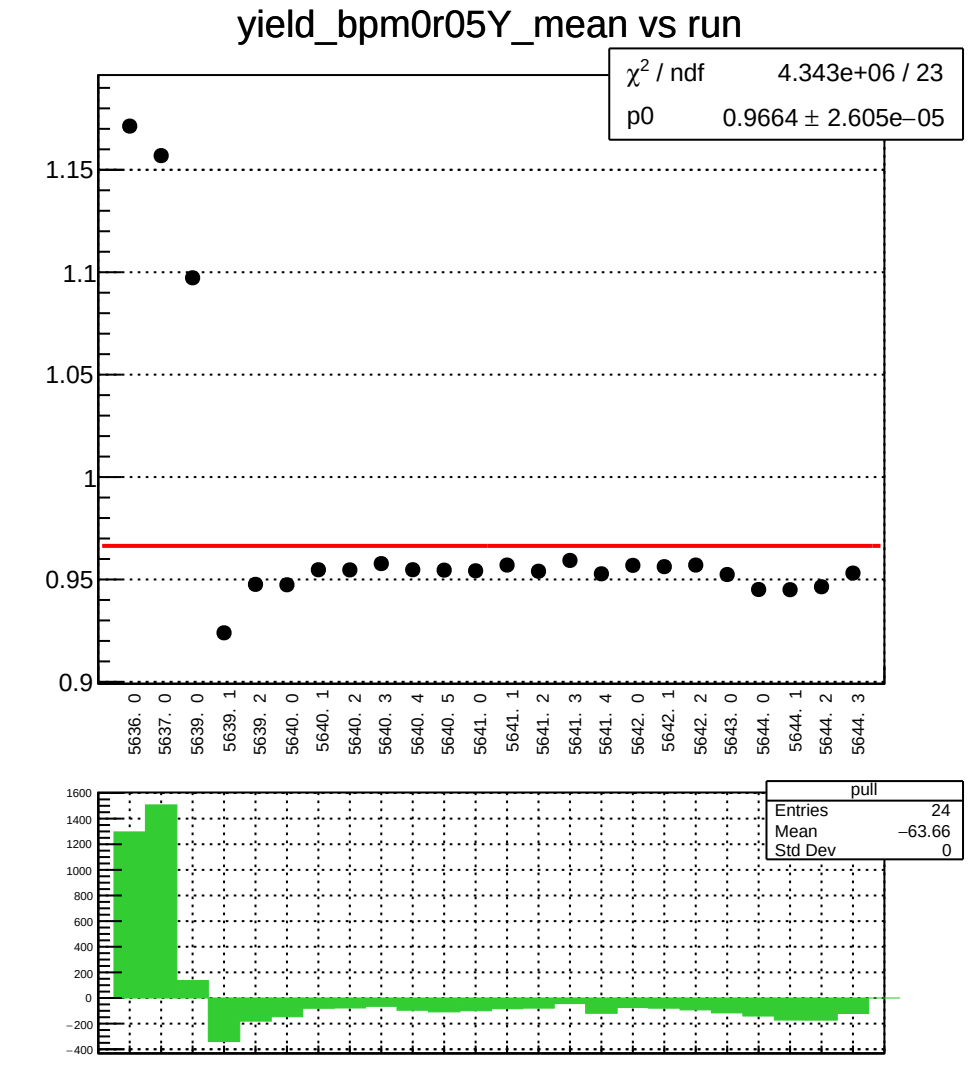

yield_bpm0r03Y_mean vs run
χ² / ndf 2.614e+06 / 23
p0 −0.5709 ± 2.108e−05
−0.44
−0.46
−0.48
−0.5
−0.52
−0.54
−0.56
−0.58
−0.6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −52.17
Std Dev 0
1200
1000
800
600
400
200
0
−200
pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

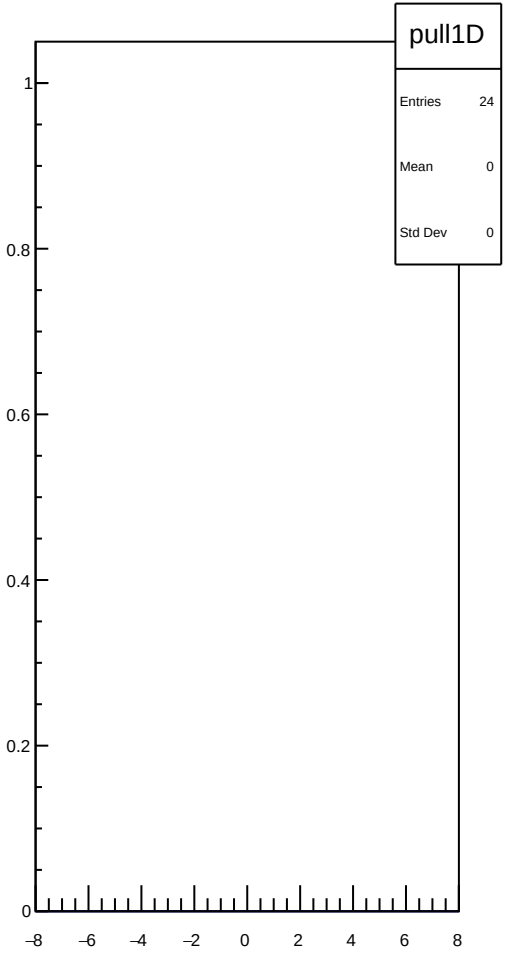

yield_bpm0r03Y_rms vs run
χ² / ndf 1.531e+04 / 23
p0 0.01019 ± 1.491e−05
0.06
0.05
0.04
0.03
0.02
0.01
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

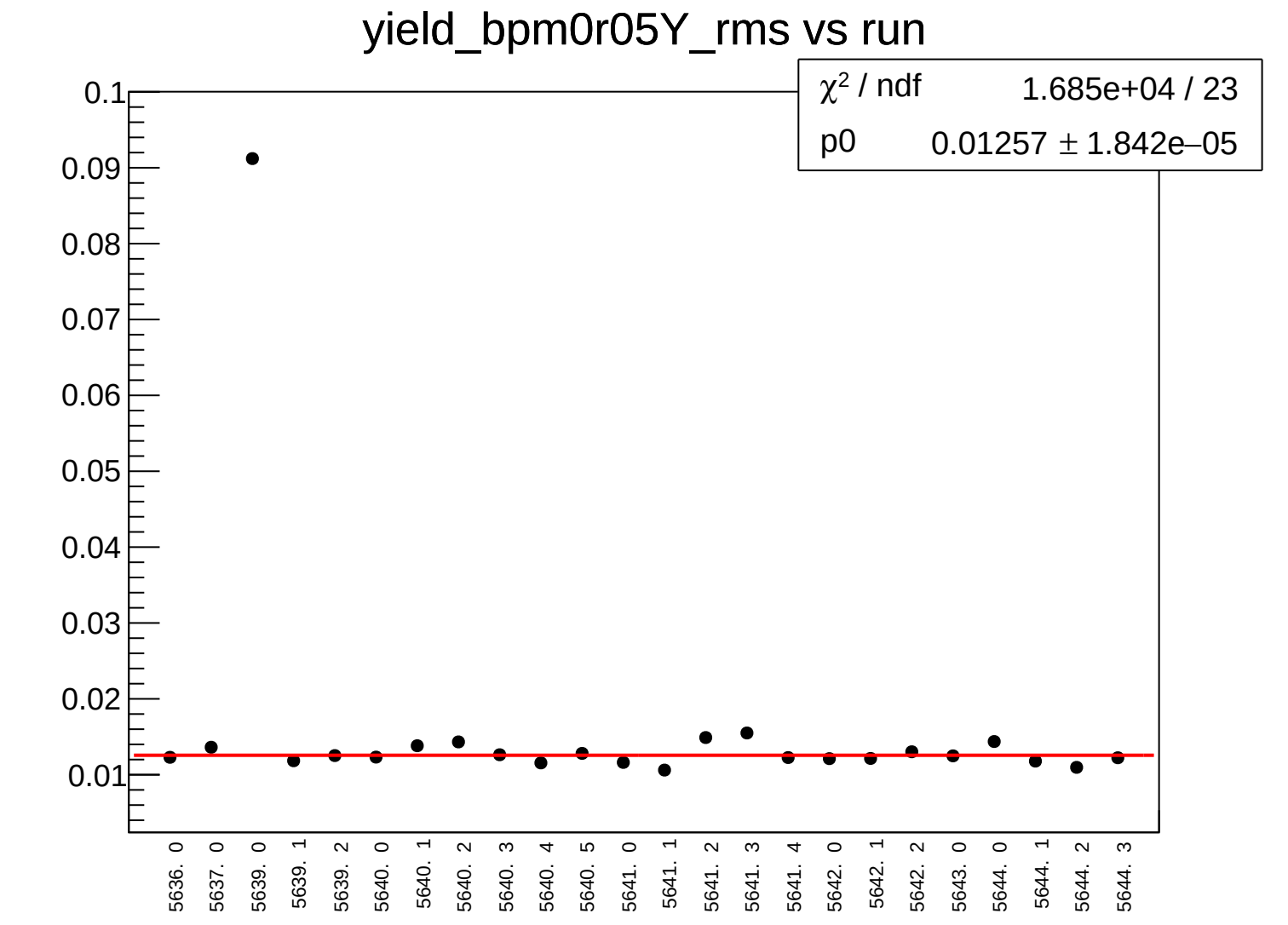

yield_bpm0r05X_mean vs run
χ² / ndf 3.021e+05 / 23
p0 −1.112 ± 0.0001742
−0.75
−0.8
−0.85
−0.9
−0.95
−1
−1.05
−1.1
−1.15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −123.4
Std Dev 0
400
300
200
100
0

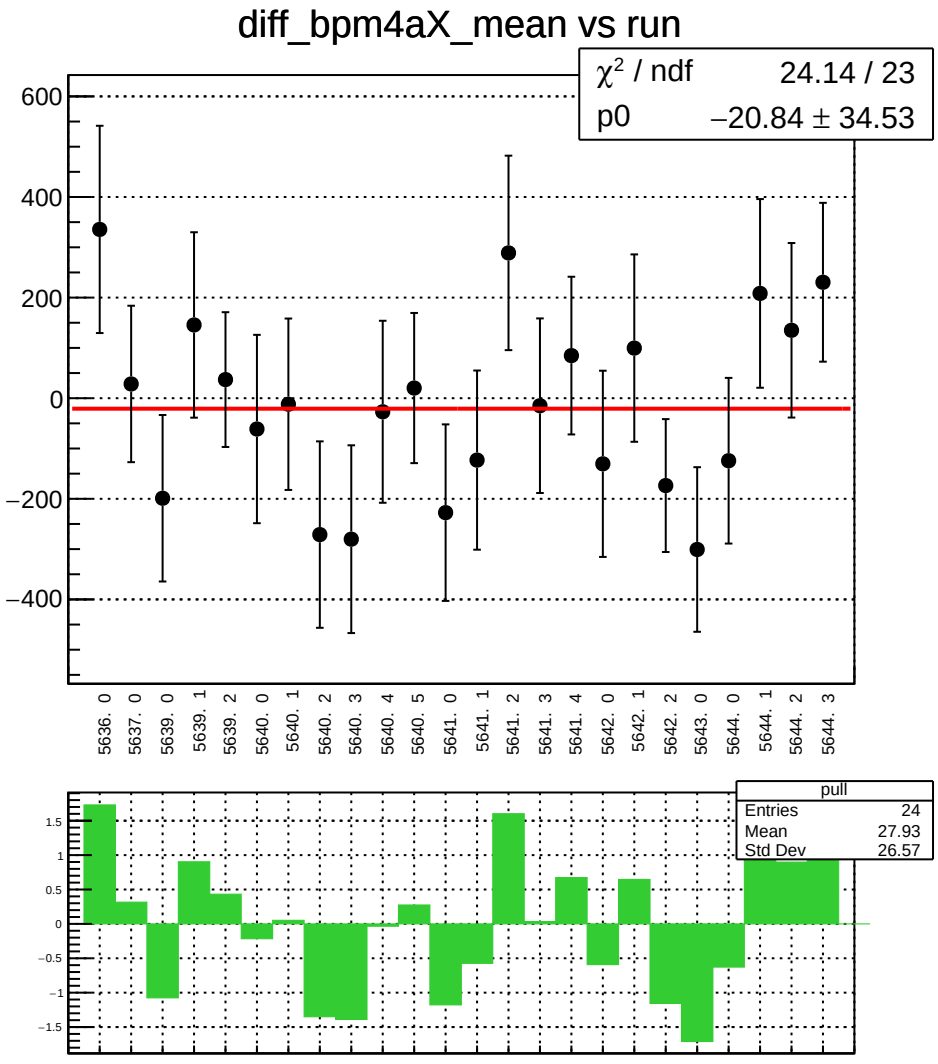

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

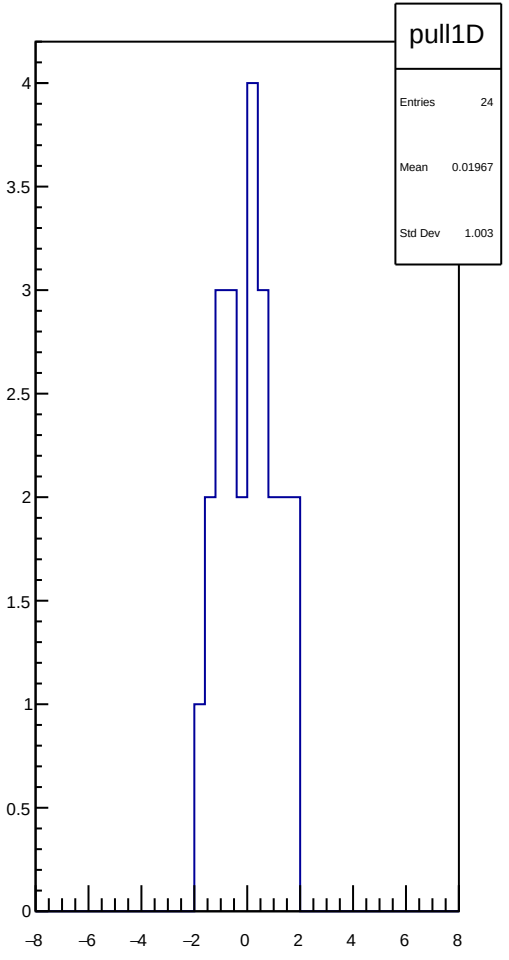

yield_bpm0r05X_rms vs run
χ² / ndf 5744 / 23
p0 0.08503 ± 0.0001232
0.2
0.18
0.16
0.14
0.12
0.1
0.08
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

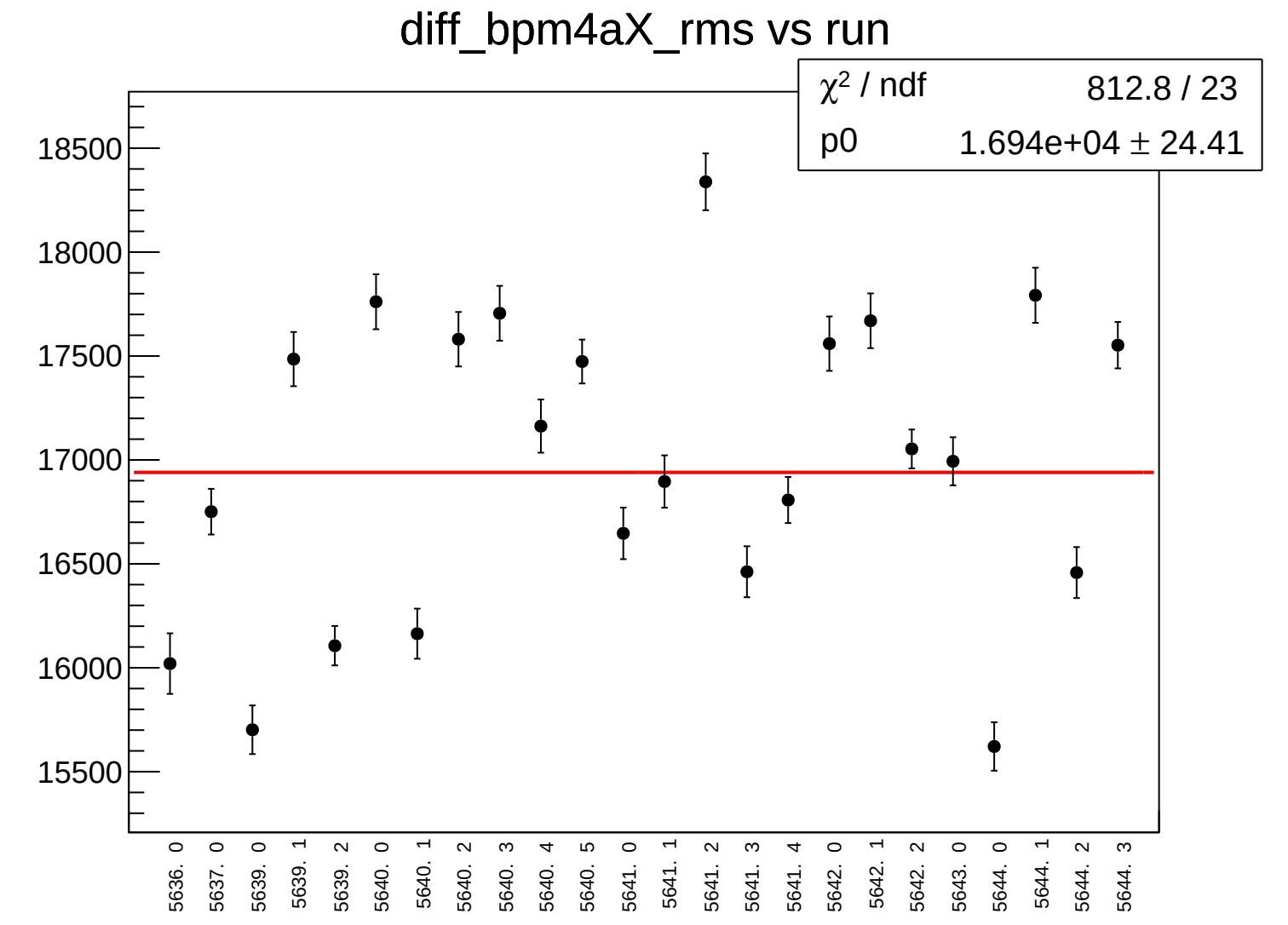

yield_bpm0r05Y_mean vs run
χ² / ndf 4.343e+06 / 23
p0 0.9664 ± 2.605e−05
1.15
1.1
1.05
1
0.95
0.9
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −63.66
Std Dev 0
1600
1400
1200
1000
800
600
400
200
0
−200
−400

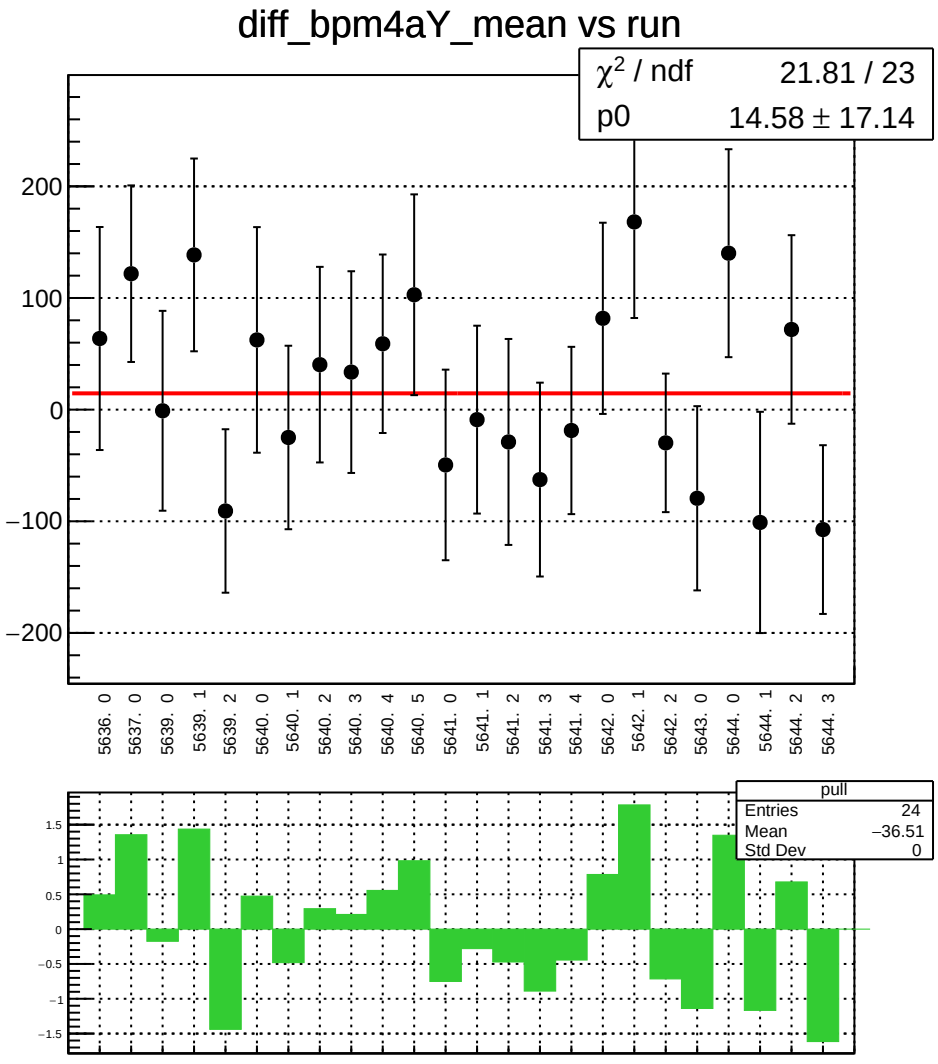

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

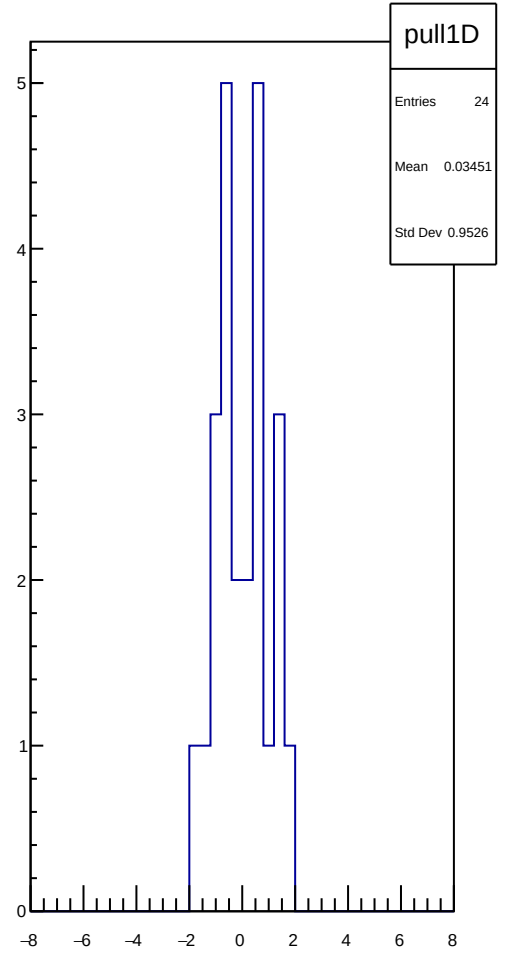

yield_bpm0r05Y_rms vs run
χ² / ndf 1.685e+04 / 23
p0 0.01257 ± 1.842e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

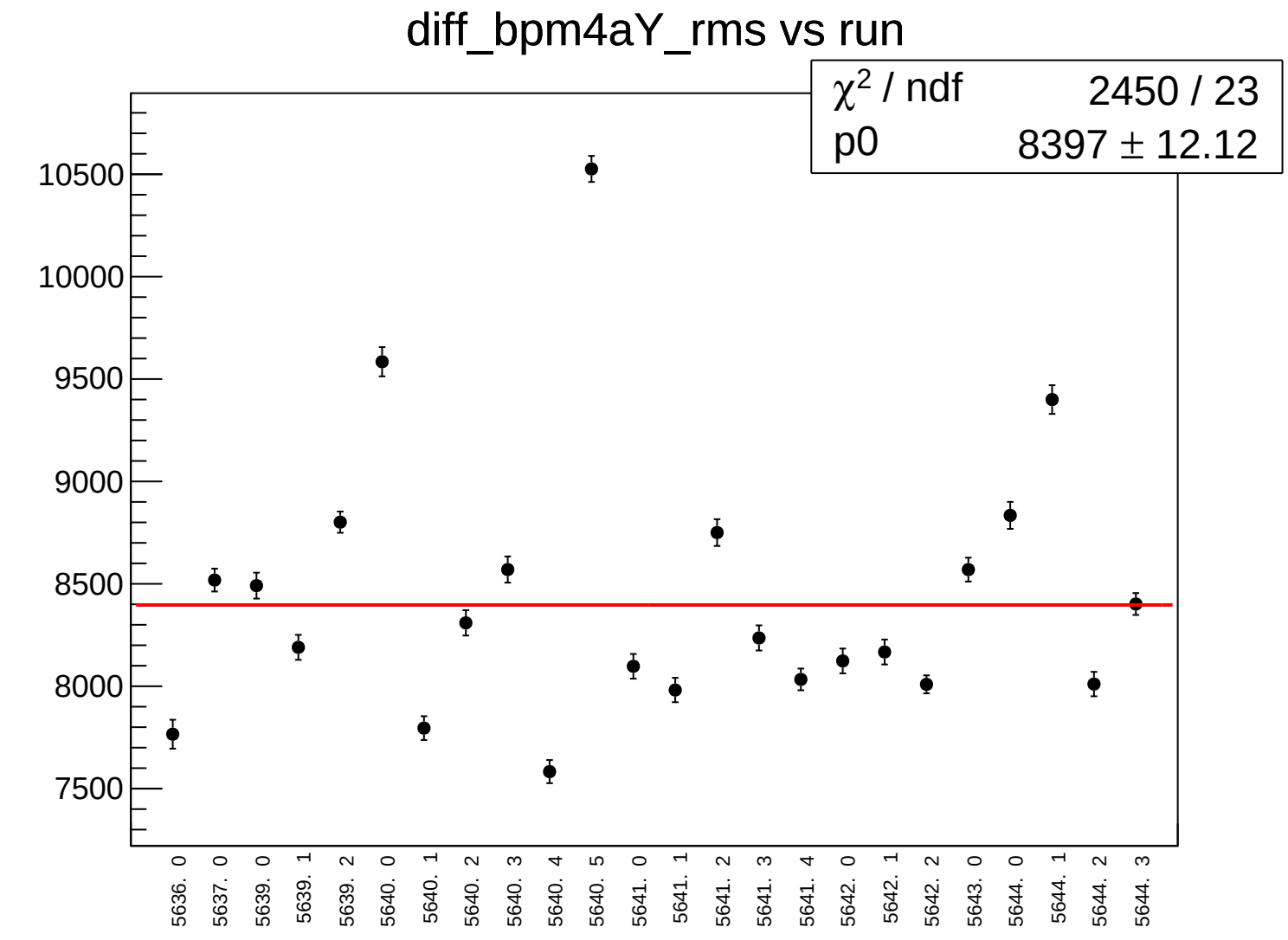

diff_bpm4aX_mean vs run
χ² / ndf 24.14 / 23
p0 −20.84 ± 34.53
600
400
200
0
−200
−400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 27.93
Std Dev 26.57
1.5
1
0.5
0
−0.5
−1
−1.5

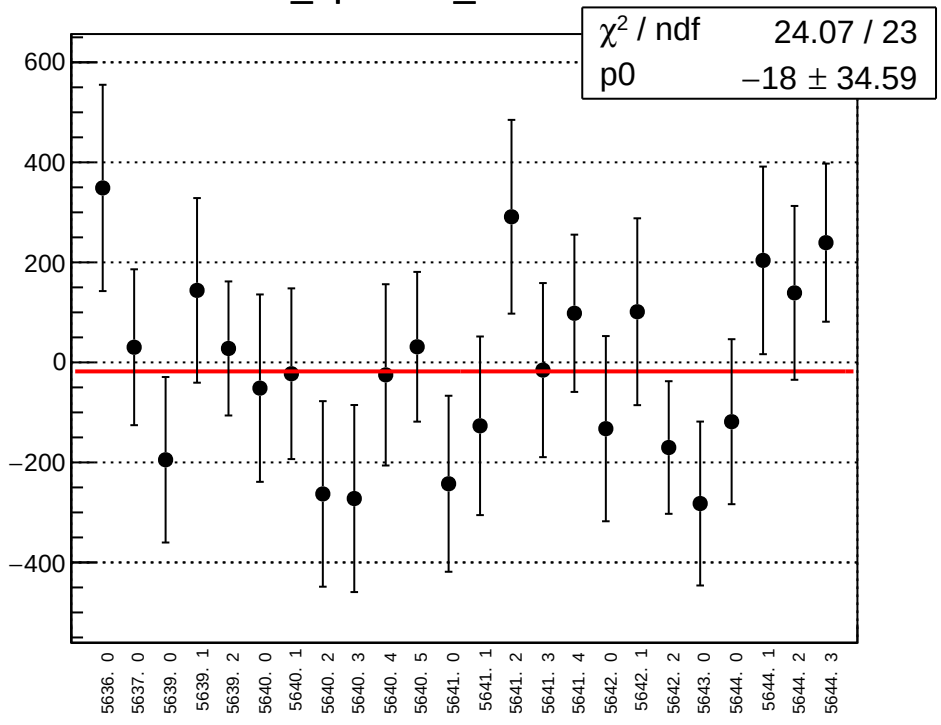

pull1D
Entries 24
Mean 0.01967
Std Dev 1.003
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

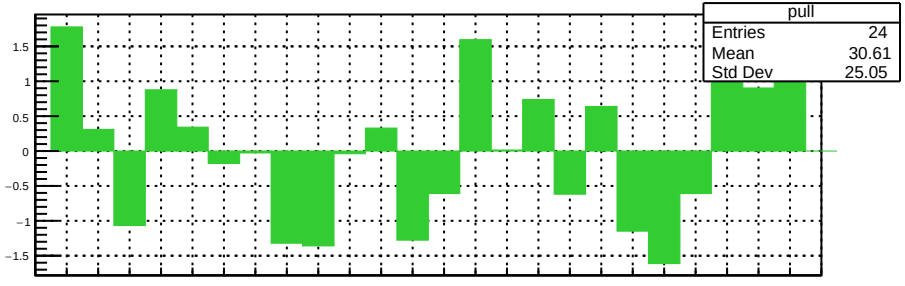

diff_bpm4aX_rms vs run
χ² / ndf 812.8 / 23
p0 1.694e+04 ± 24.41
18500
18000
17500
17000
16500
16000
15500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

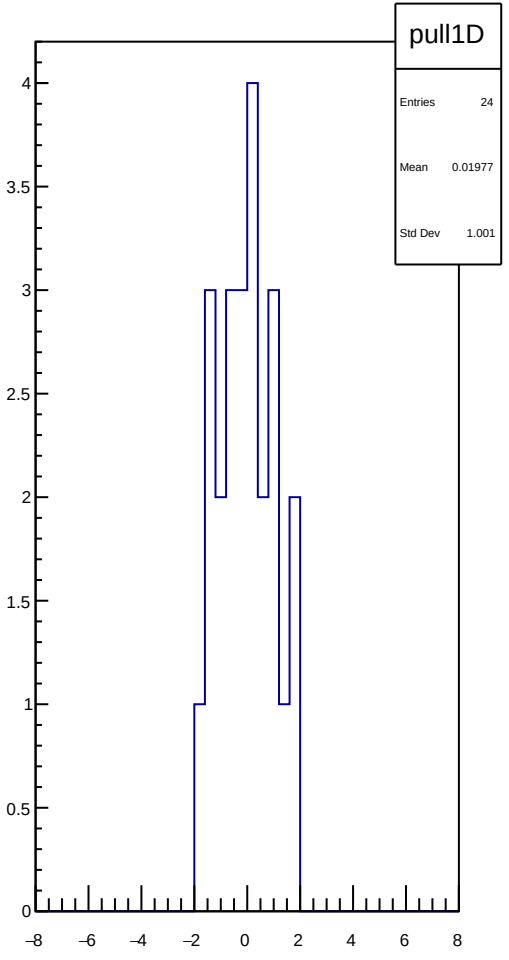

diff_bpm4aY_mean vs run
χ² / ndf 21.81 / 23
p0 14.58 ± 17.14
200
100
0
−100
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −36.51
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

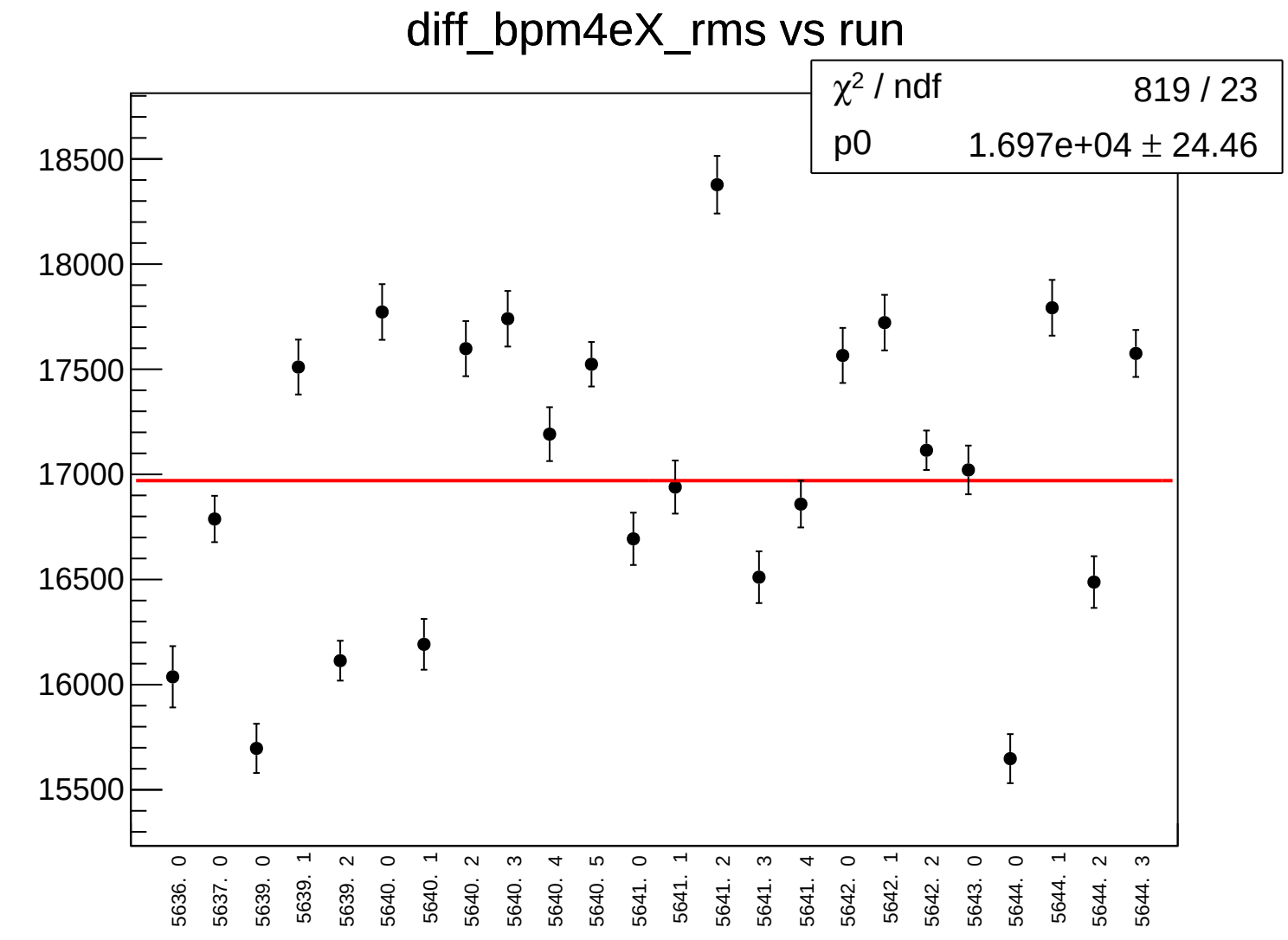

pull1D
Entries 24
Mean 0.03451
Std Dev 0.9526
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

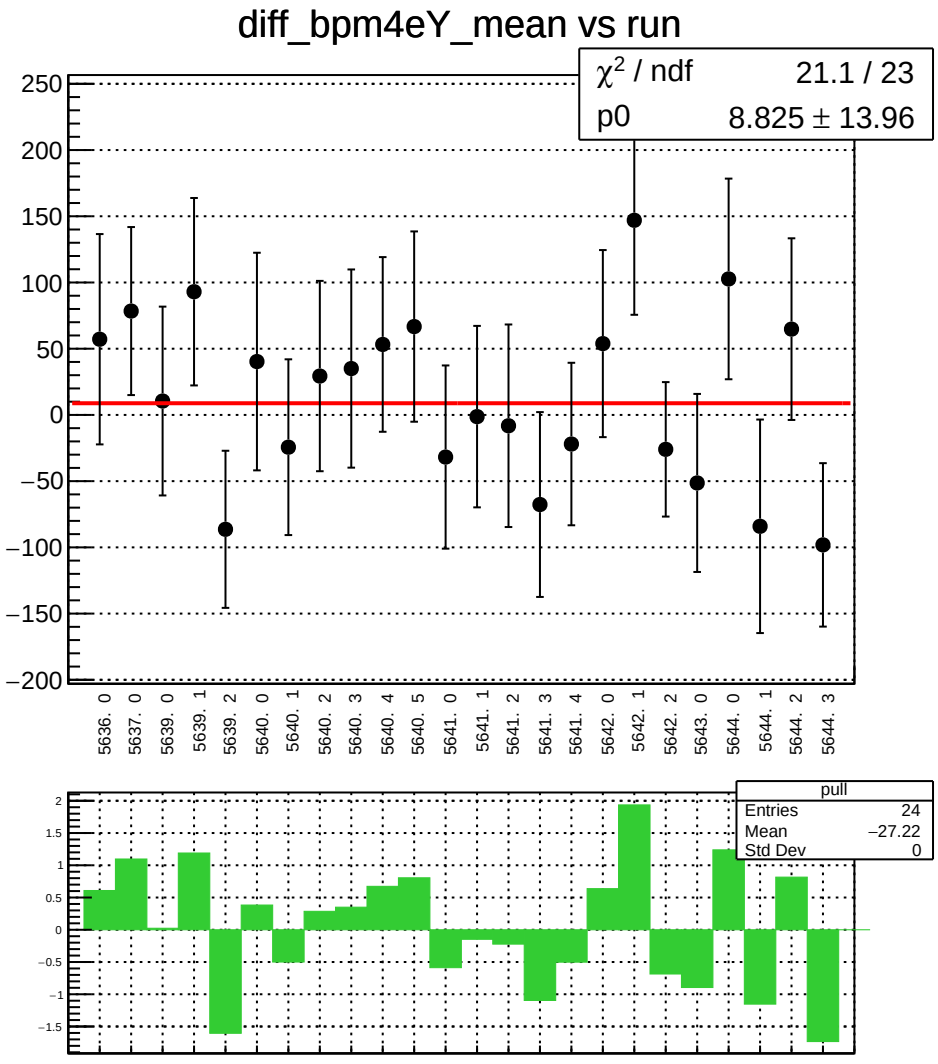

diff_bpm4aY_rms vs run
χ² / ndf 2450 / 23
p0 8397 ± 12.12
10500
10000
9500
9000
8500
8000
7500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

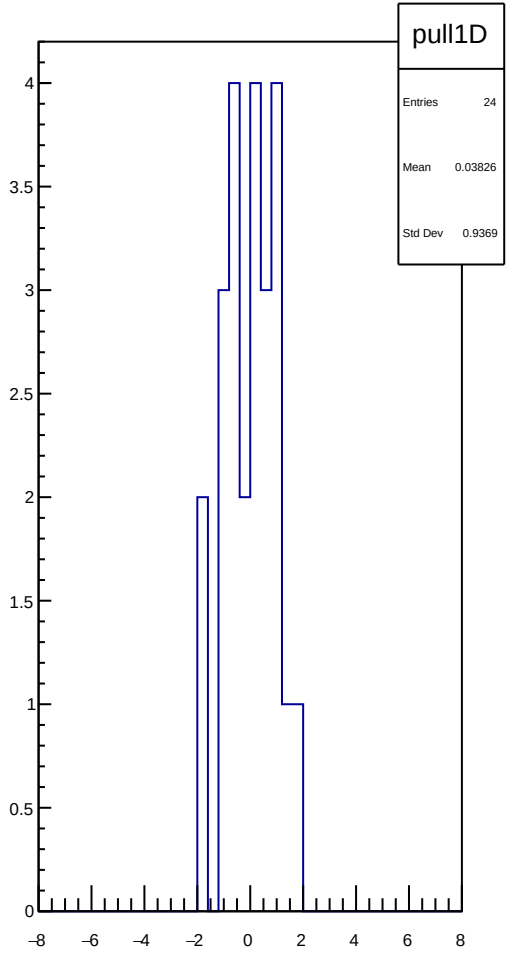

diff_bpm4eX_mean vs run
χ² / ndf 24.07 / 23
p0 −18 ± 34.59
600
400
200
0
−200
−400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

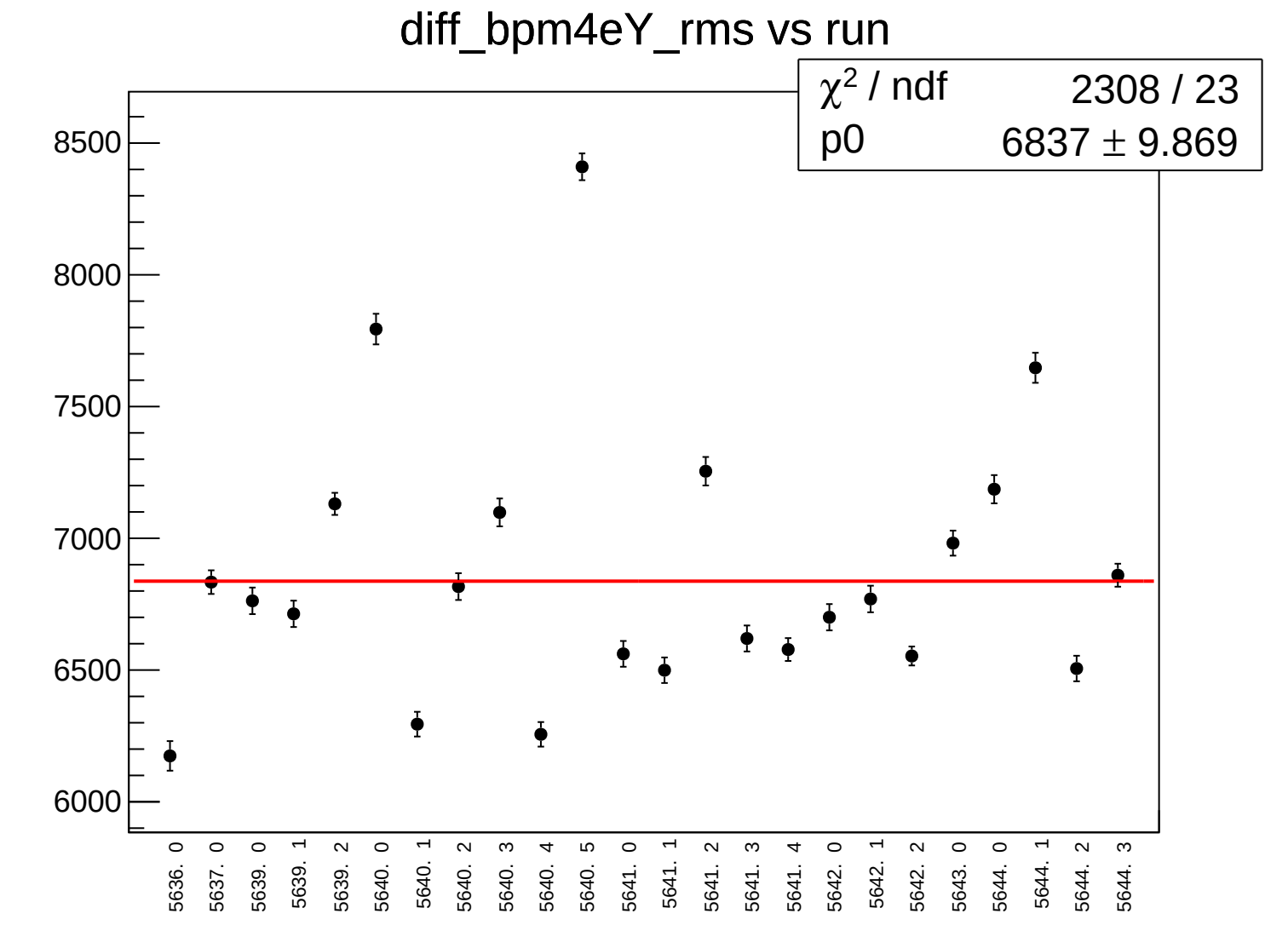

pull
Entries 24
Mean 30.61
Std Dev 25.05
1.5
1
0.5
0
−0.5
−1
−1.5

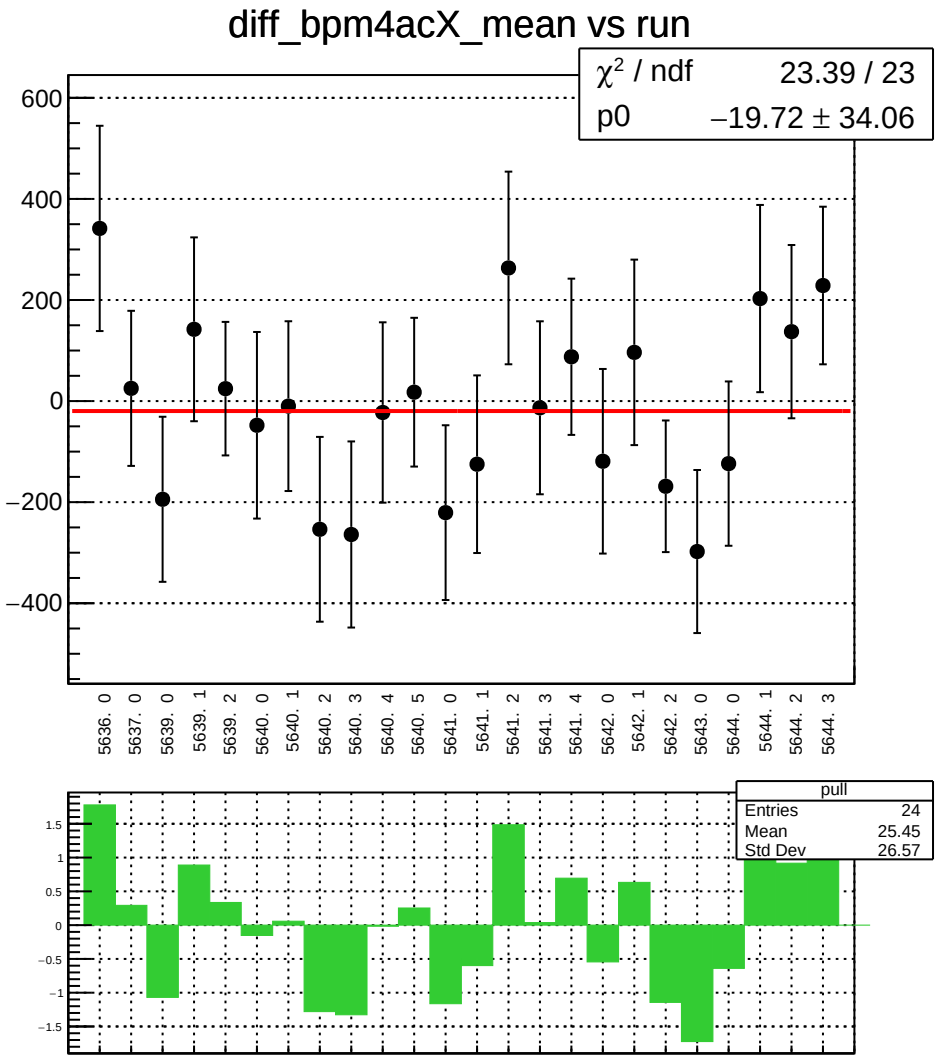

pull1D
Entries 24
Mean 0.01977
Std Dev 1.001
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

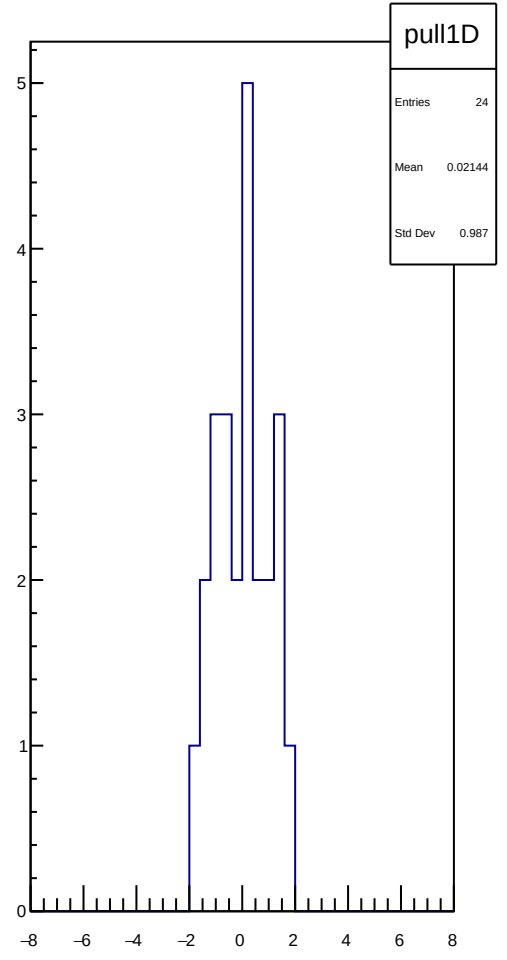

diff_bpm4eX_rms vs run
χ² / ndf 819 / 23
p0 1.697e+04 ± 24.46
18500
18000
17500
17000
16500
16000
15500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

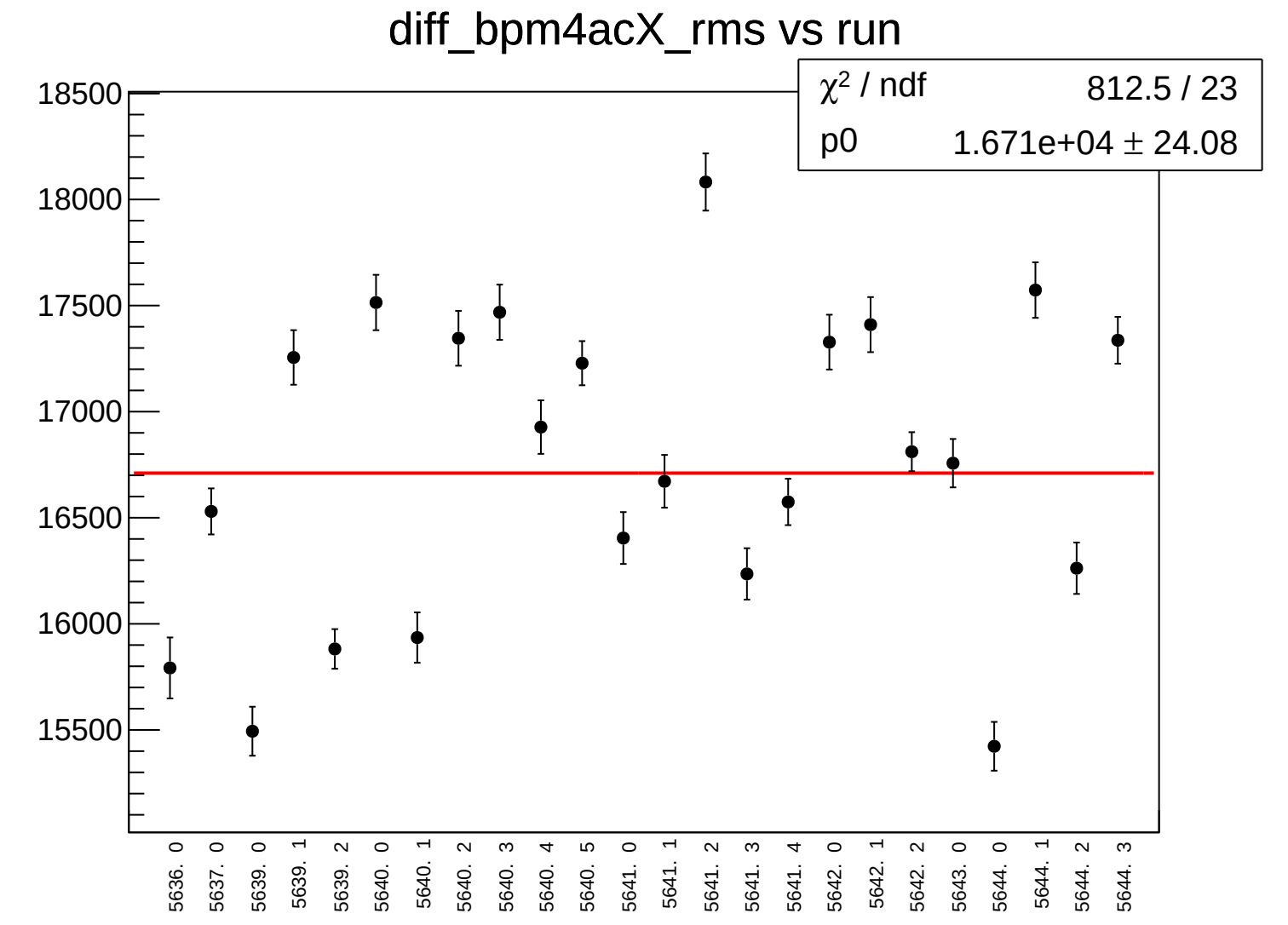

diff_bpm4eY_mean vs run
χ² / ndf 21.1 / 23
p0 8.825 ± 13.96
250
200
150
100
50
0
−50
−100
−150
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −27.22
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

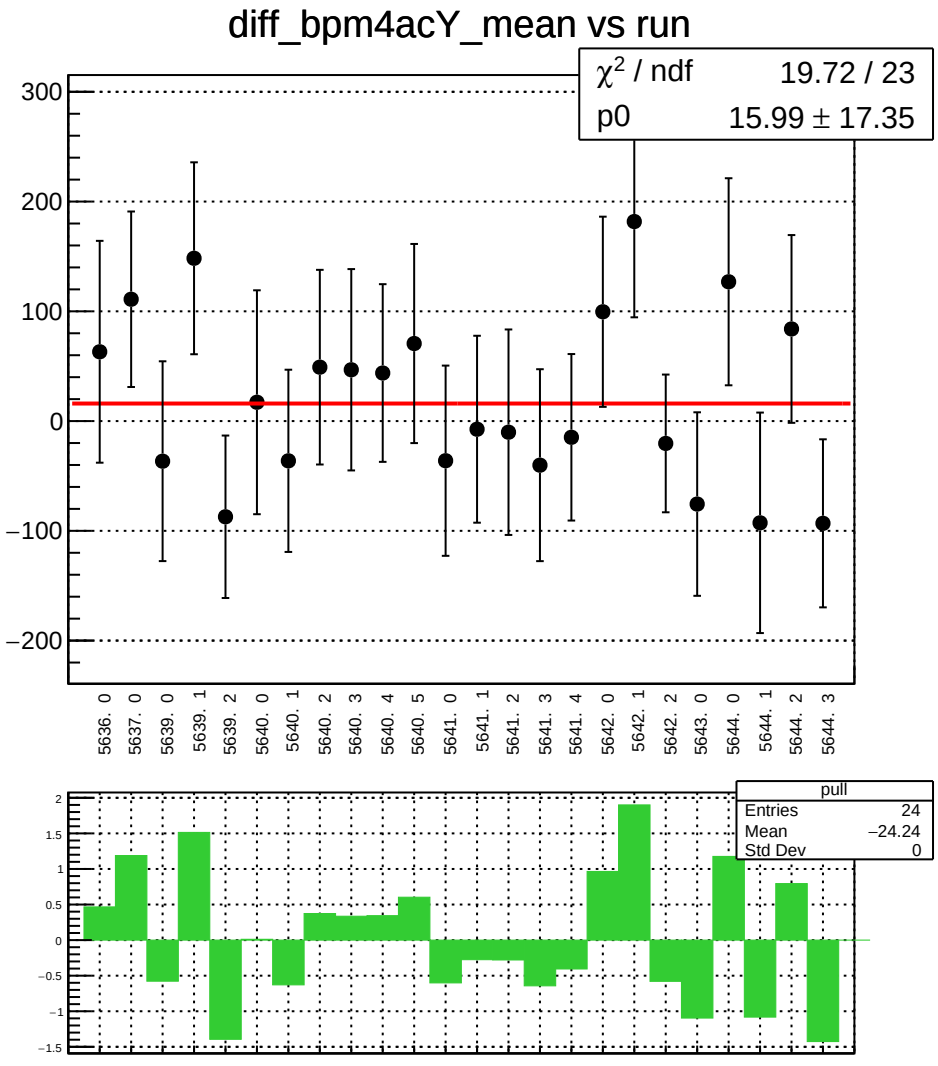

pull1D
Entries 24
Mean 0.03826
Std Dev 0.9369
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

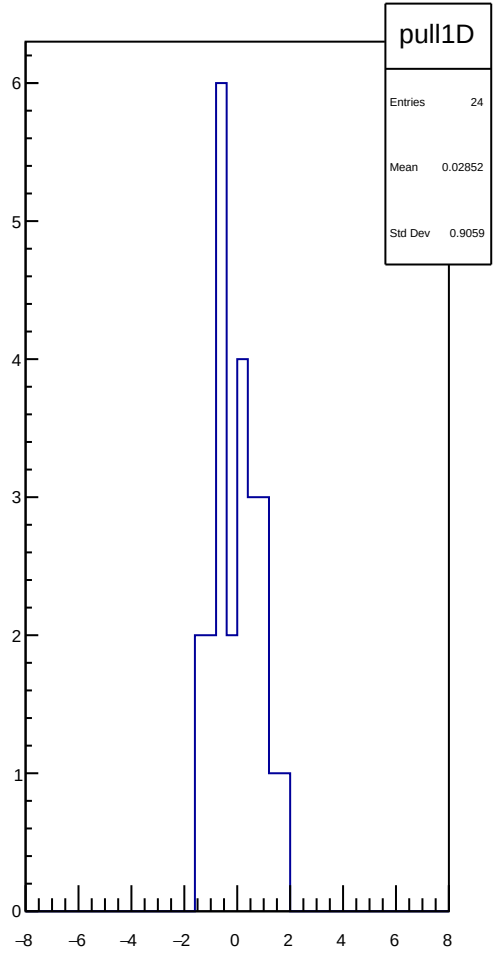

diff_bpm4eY_rms vs run
χ² / ndf 2308 / 23
p0 6837 ± 9.869
8500
8000
7500
7000
6500
6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

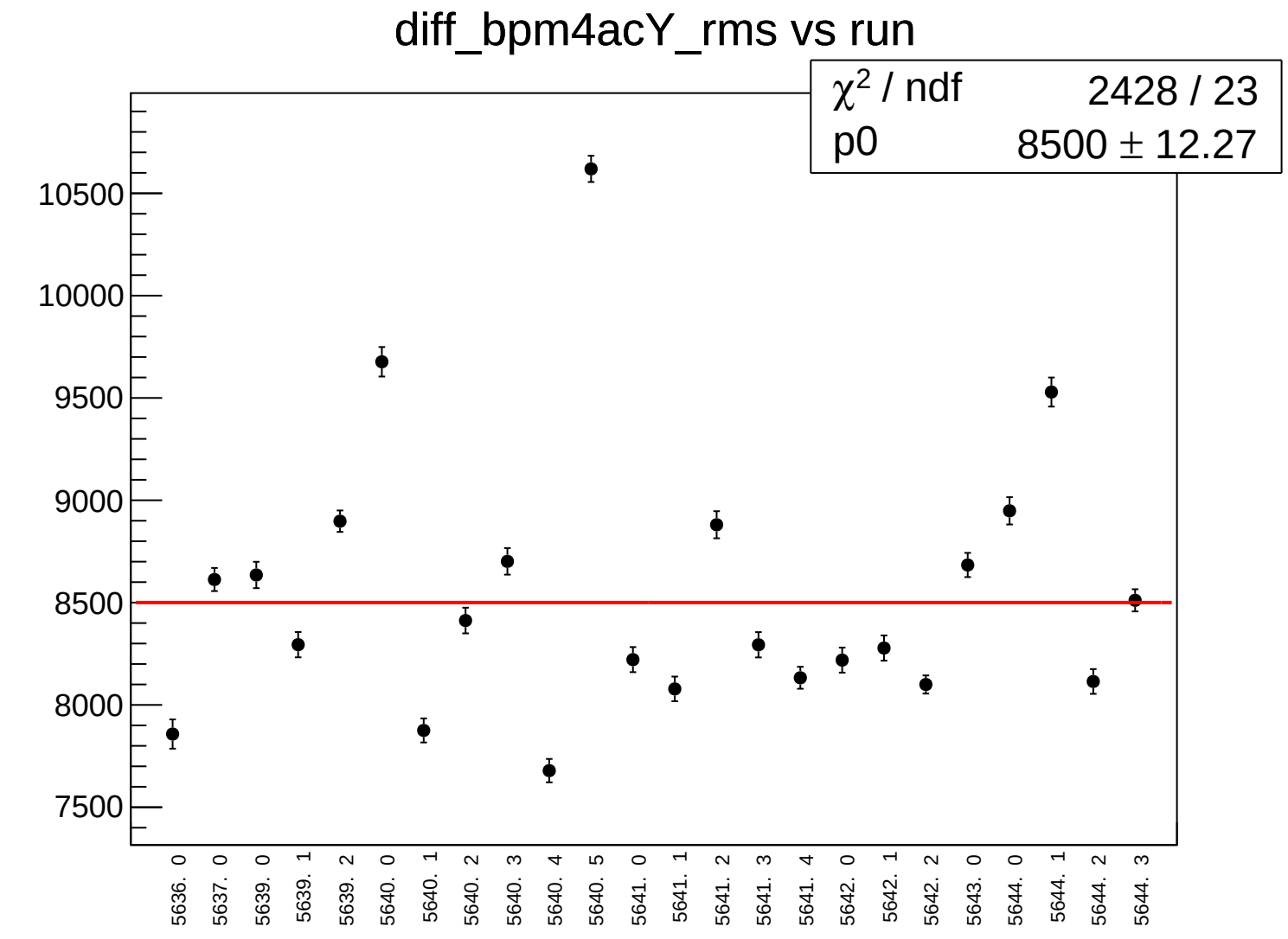

diff_bpm4acX_mean vs run
χ² / ndf 23.39 / 23
p0 −19.72 ± 34.06
600
400
200
0
−200
−400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 25.45
Std Dev 26.57
1.5
1
0.5
0
−0.5
−1
−1.5

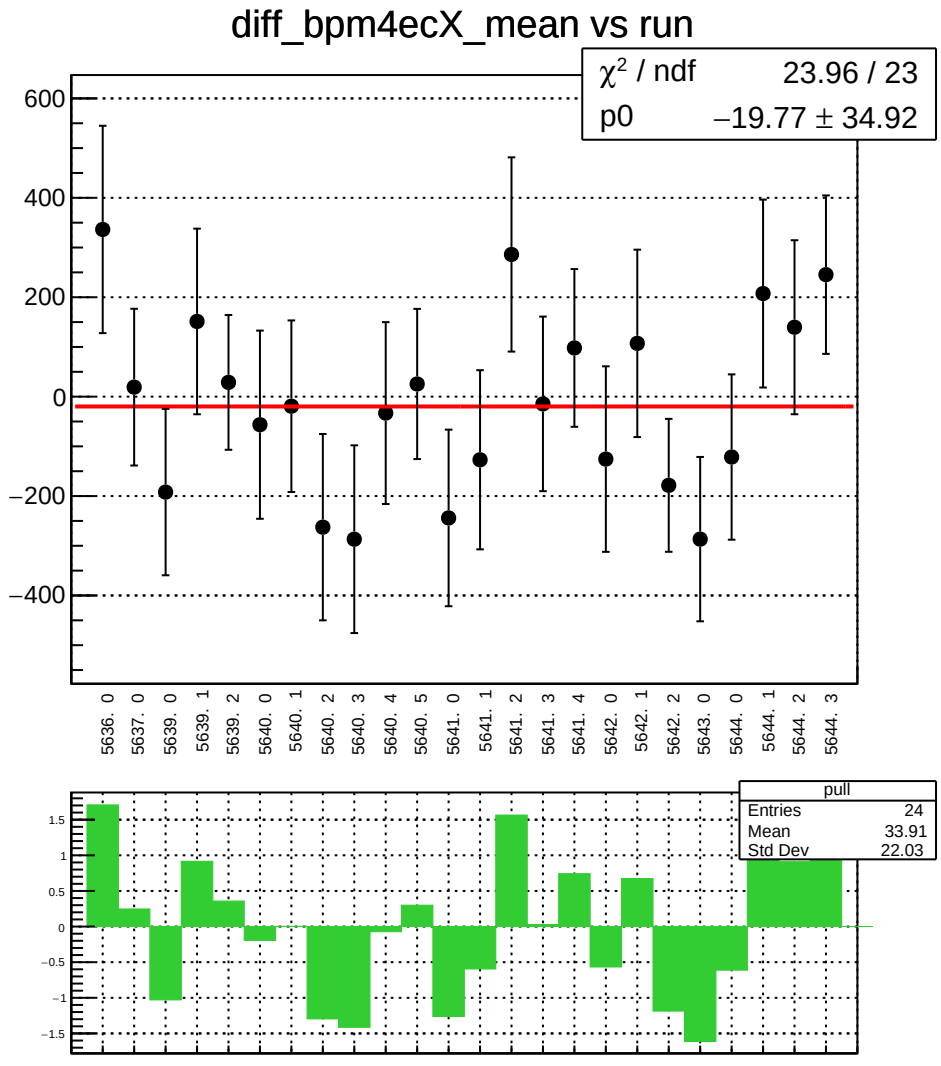

pull1D
Entries 24
Mean 0.02144
Std Dev 0.987
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

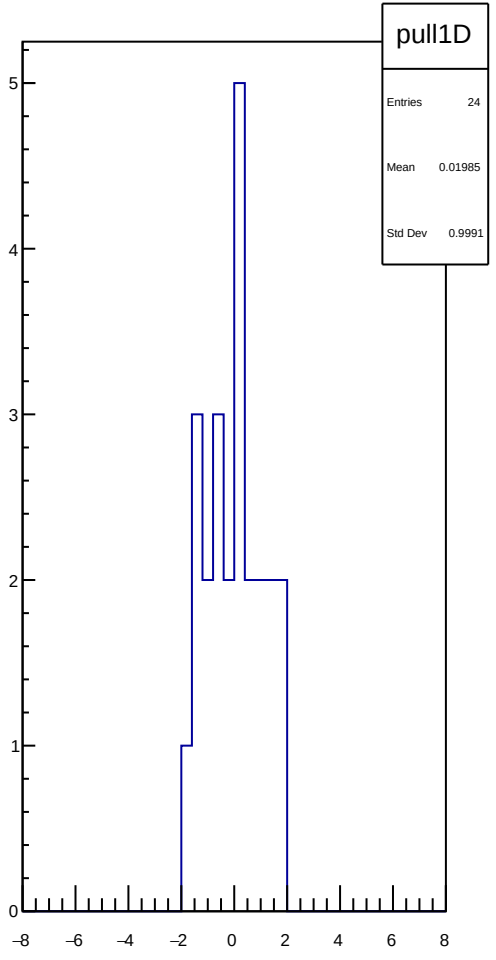

diff_bpm4acX_rms vs run
χ² / ndf 812.5 / 23
p0 1.671e+04 ± 24.08
18500
18000
17500
17000
16500
16000
15500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

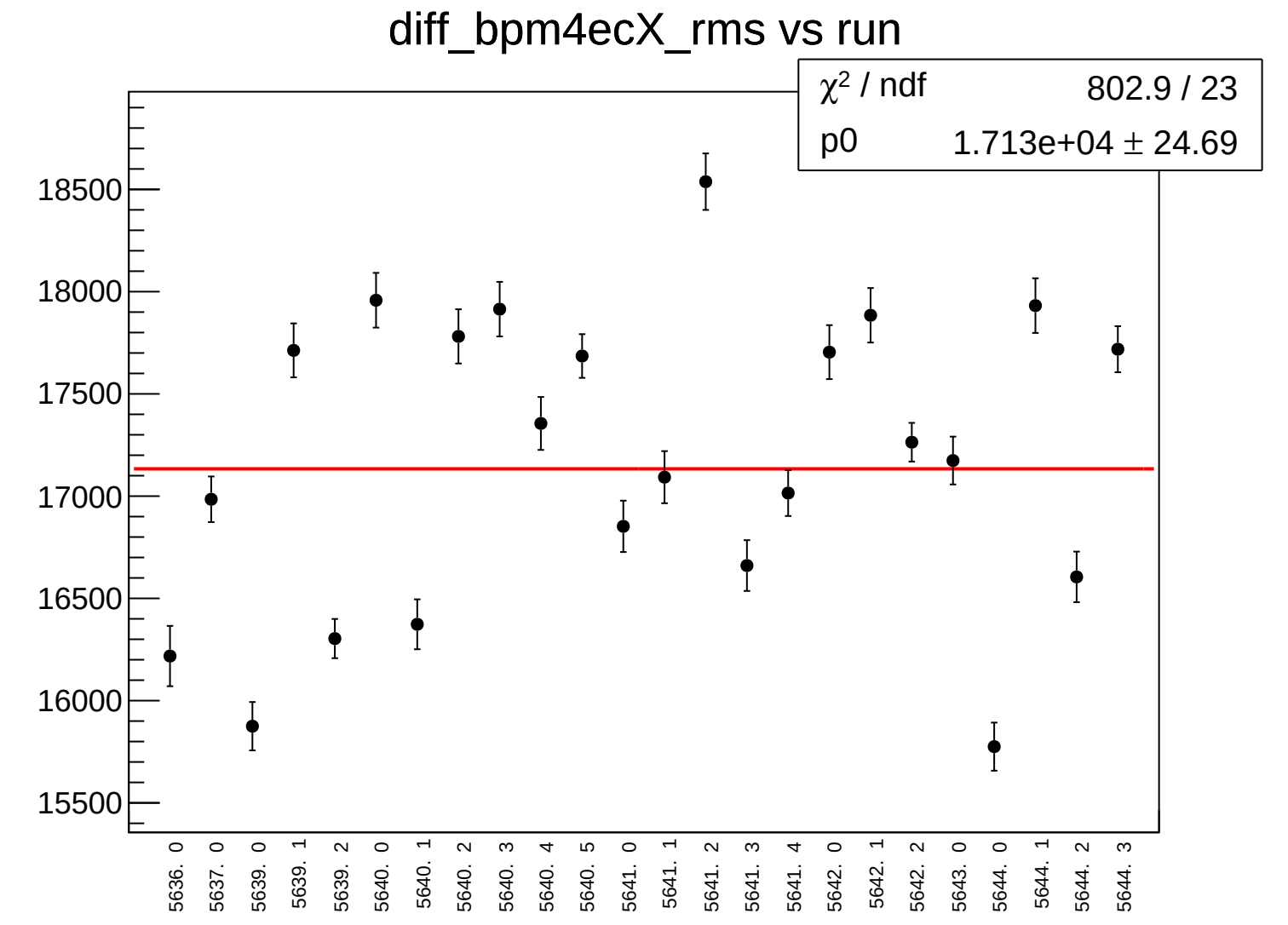

diff_bpm4acY_mean vs run
χ² / ndf 19.72 / 23
p0 15.99 ± 17.35
300
200
100
0
−100
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −24.24
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

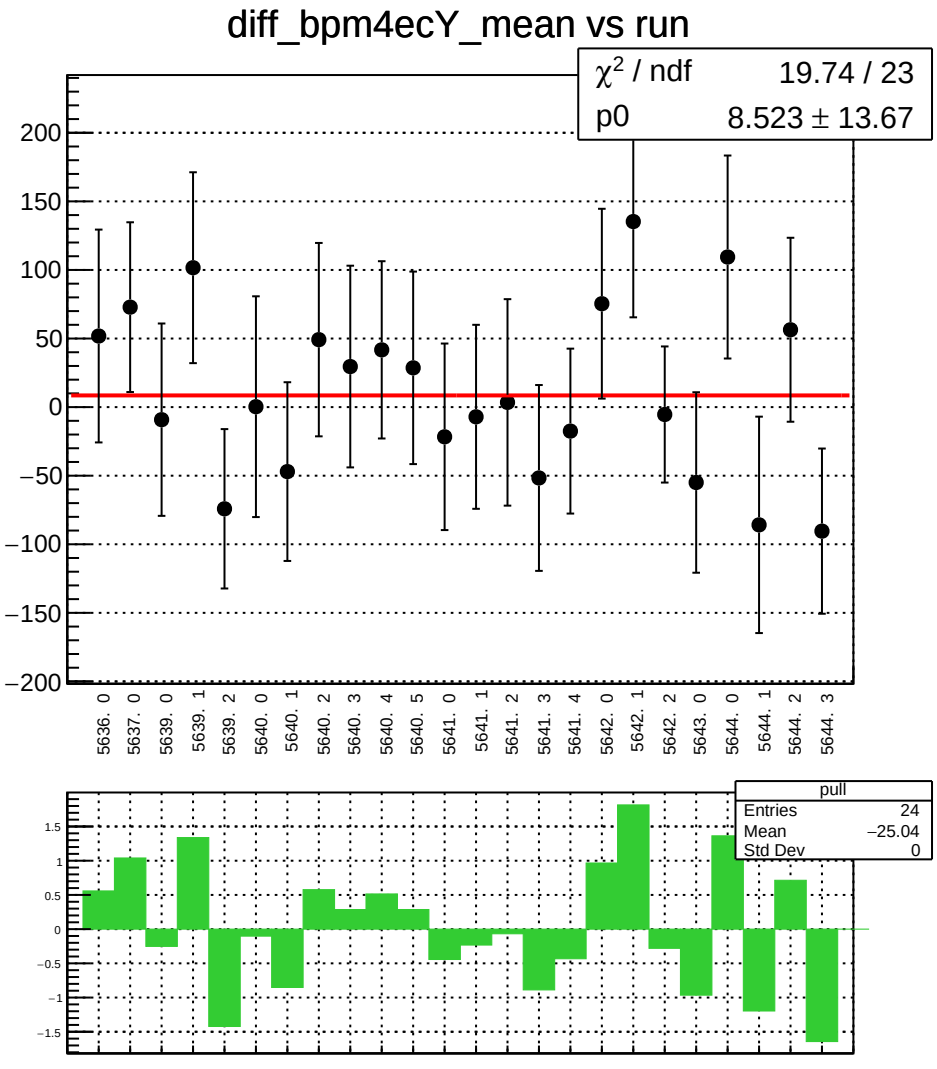

pull1D
Entries 24
Mean 0.02852
Std Dev 0.9059
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

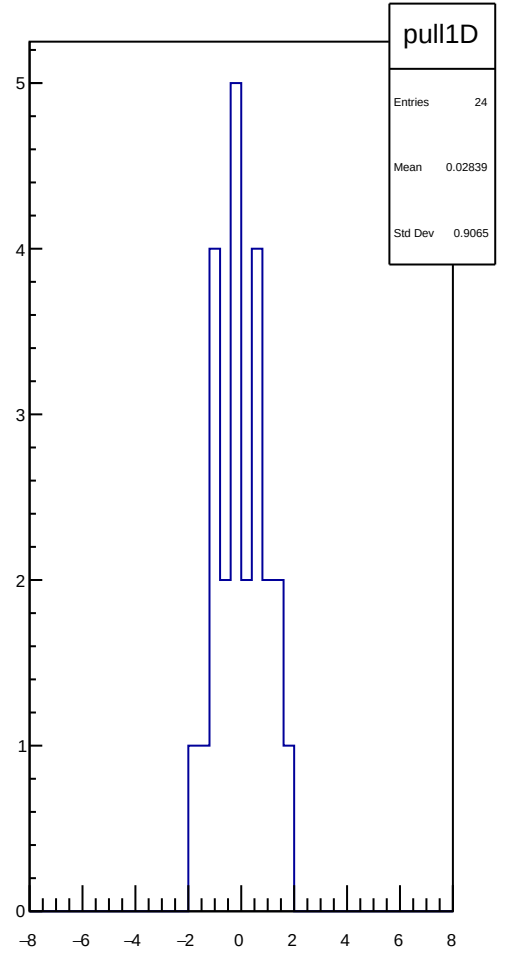

diff_bpm4acY_rms vs run
χ² / ndf 2428 / 23
p0 8500 ± 12.27
10500
10000
9500
9000
8500
8000
7500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

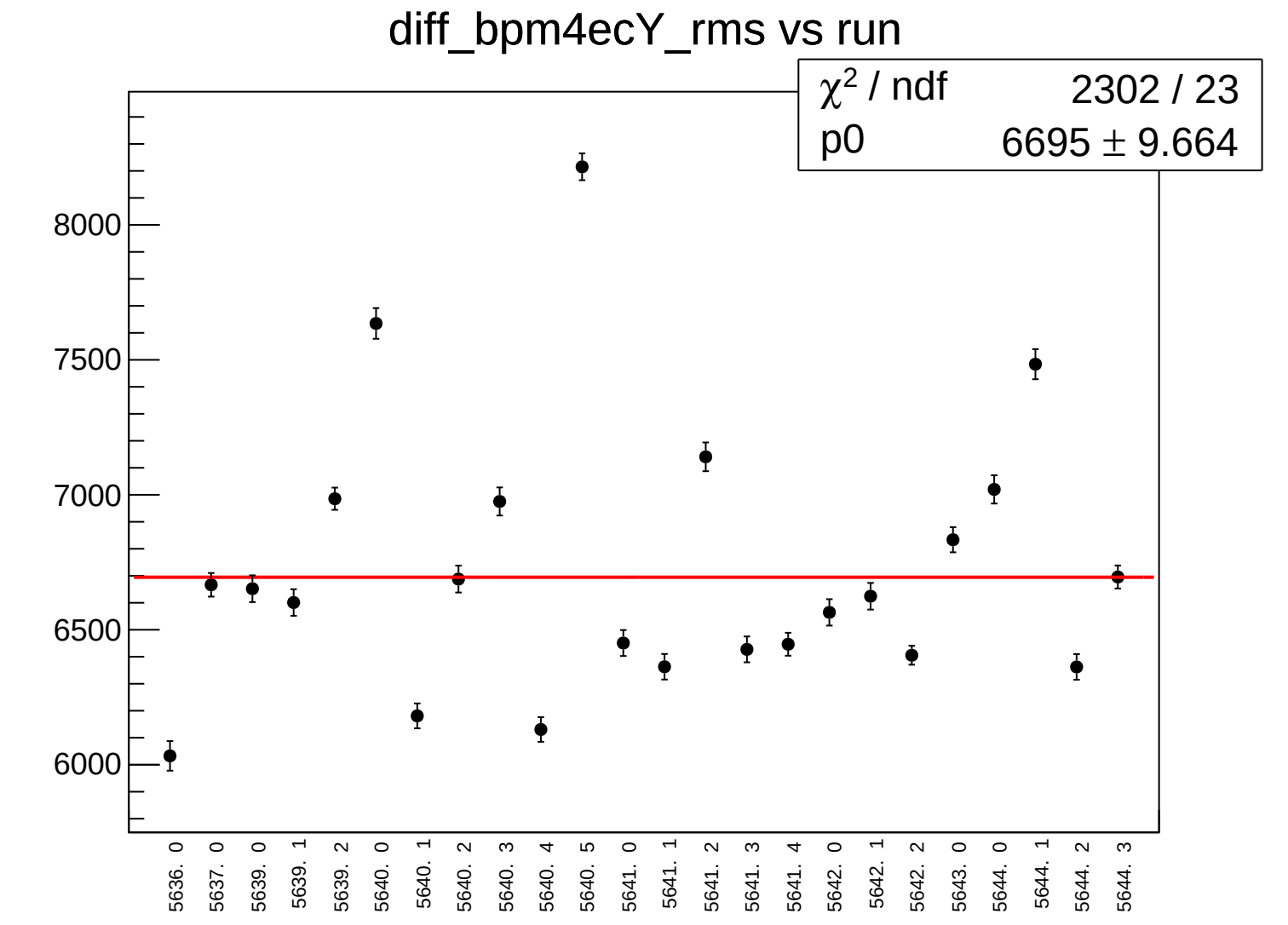

diff_bpm4ecX_mean vs run
χ² / ndf 23.96 / 23
p0 −19.77 ± 34.92
600
400
200
0
−200
−400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 33.91
Std Dev 22.03
1.5
1
0.5
0
−0.5
−1
−1.5

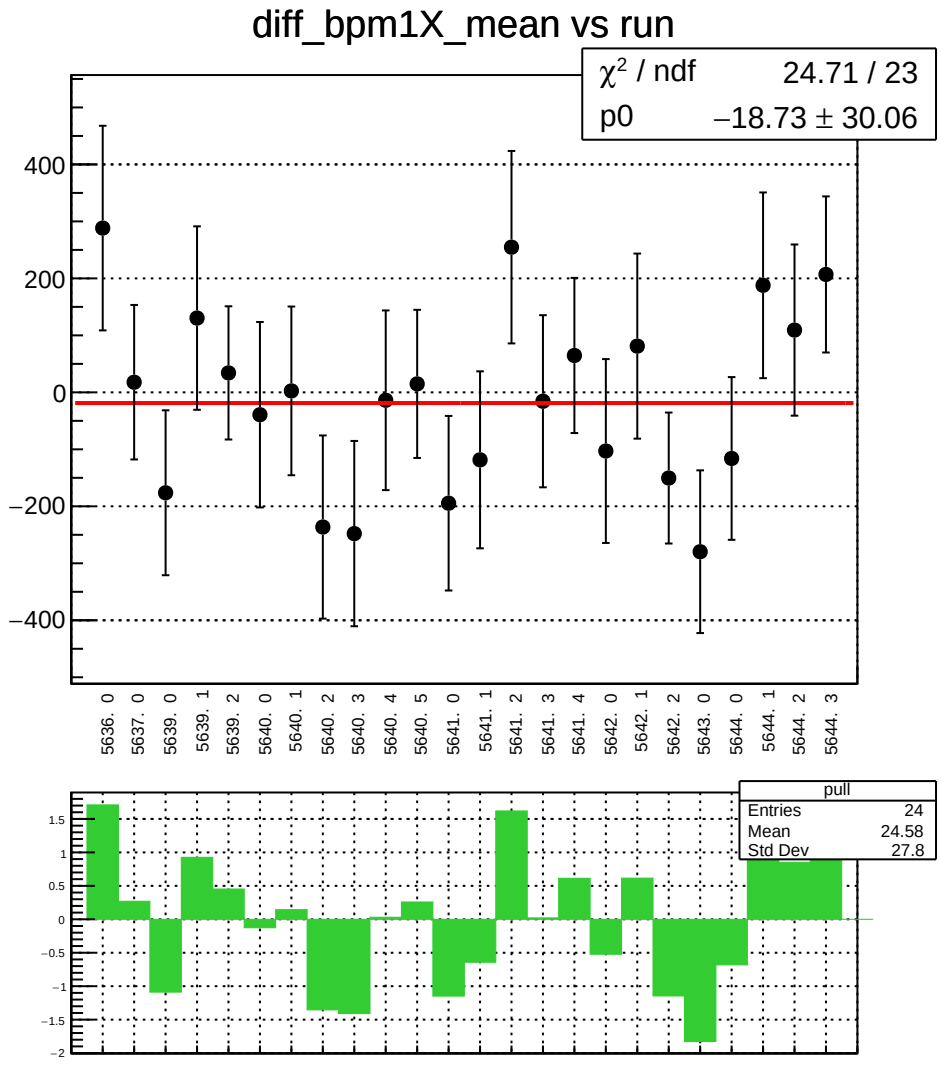

pull1D
Entries 24
Mean 0.01985
Std Dev 0.9991
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

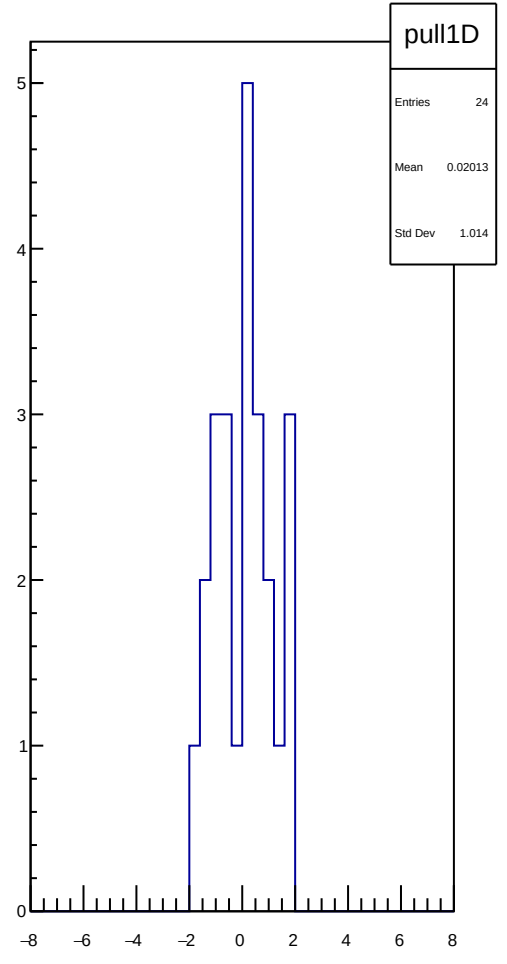

diff_bpm4ecX_rms vs run
χ² / ndf 802.9 / 23
p0 1.713e+04 ± 24.69
18500
18000
17500
17000
16500
16000
15500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

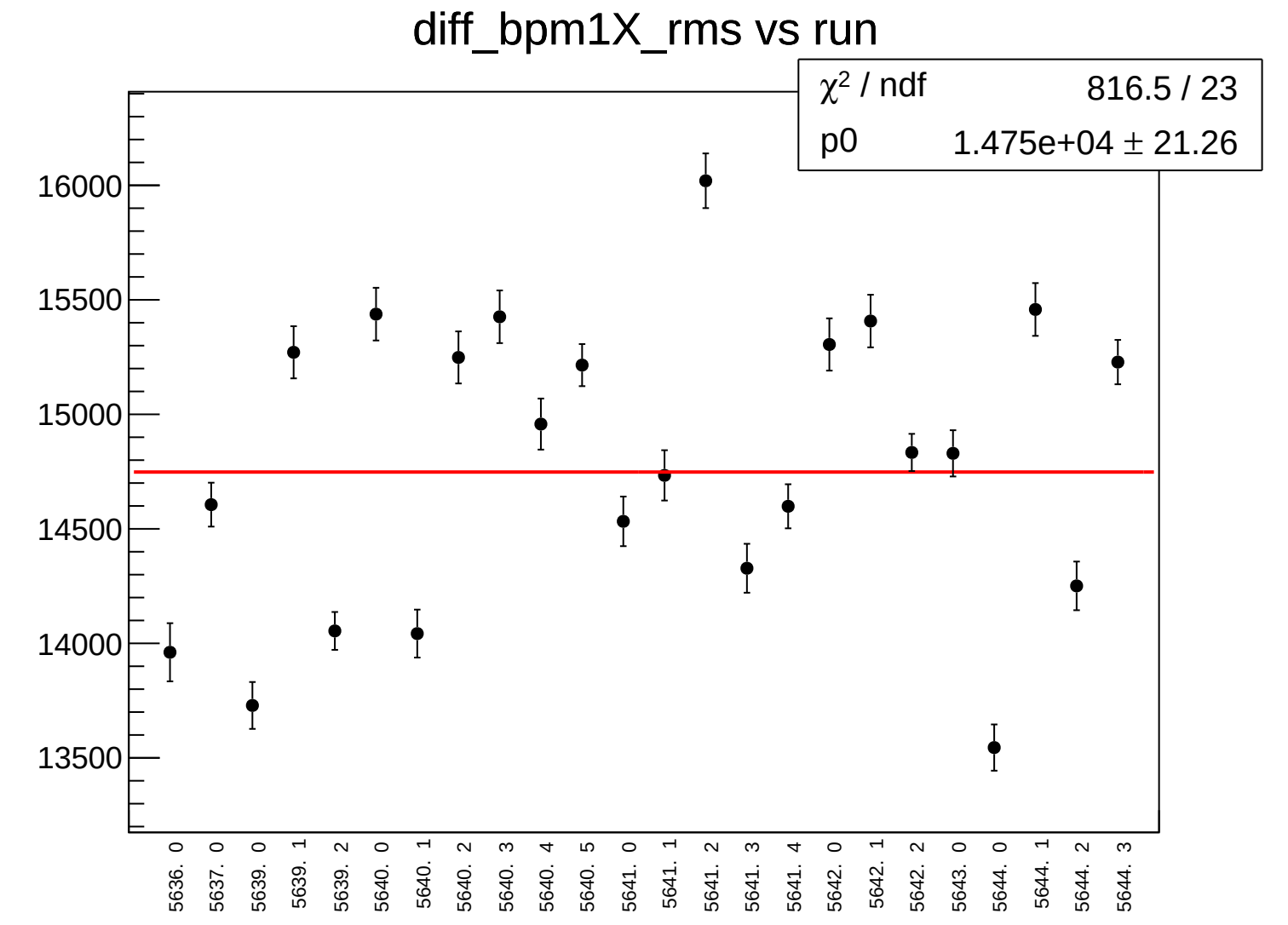

diff_bpm4ecY_mean vs run
χ² / ndf 19.74 / 23
p0 8.523 ± 13.67
200
150
100
50
0
−50
−100
−150
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −25.04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

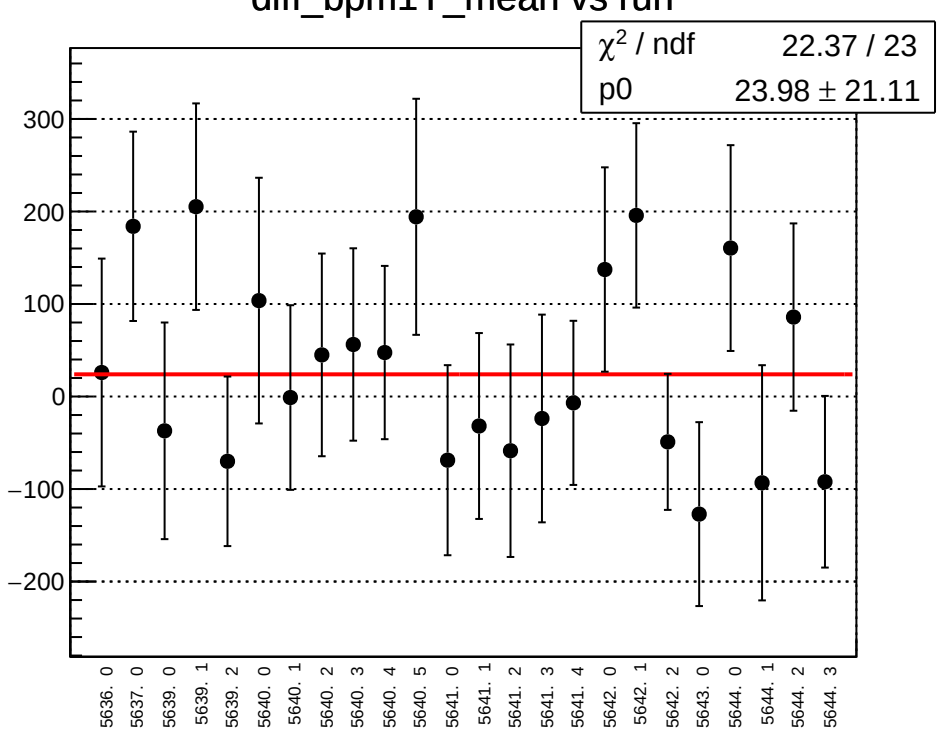

pull1D
Entries 24
Mean 0.02839
Std Dev 0.9065
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

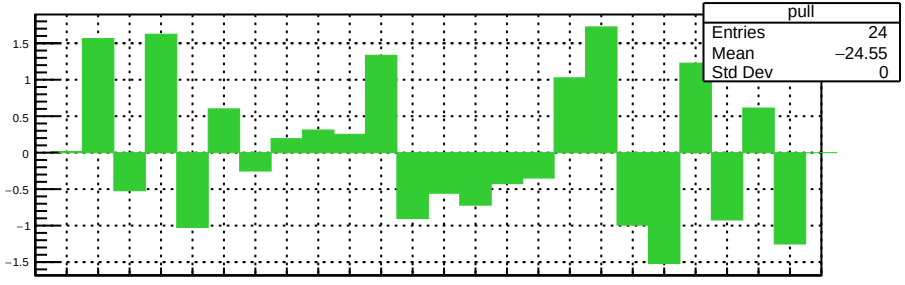

diff_bpm4ecY_rms vs run
χ² / ndf 2302 / 23
p0 6695 ± 9.664
8000
7500
7000
6500
6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

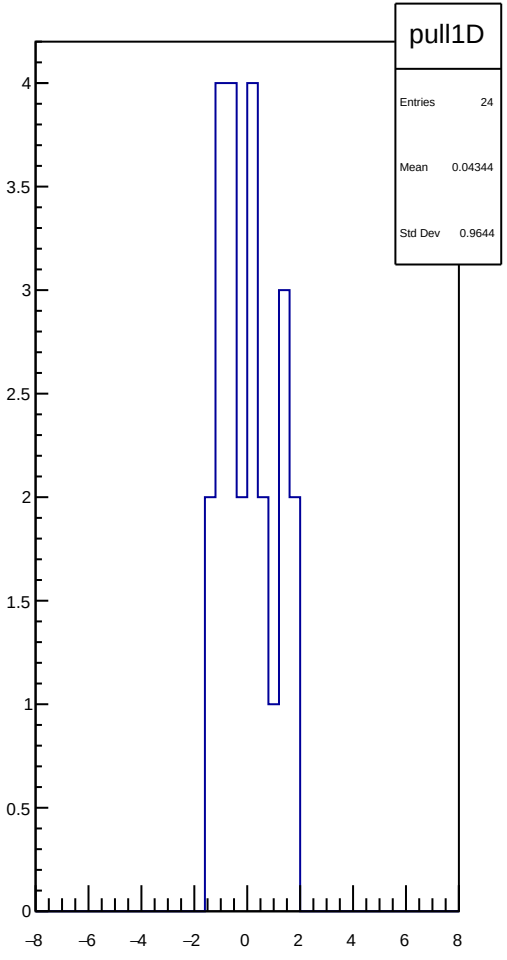

diff_bpm1X_mean vs run
χ² / ndf 24.71 / 23
p0 −18.73 ± 30.06
400
200
0
−200
−400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 24.58
Std Dev 27.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2

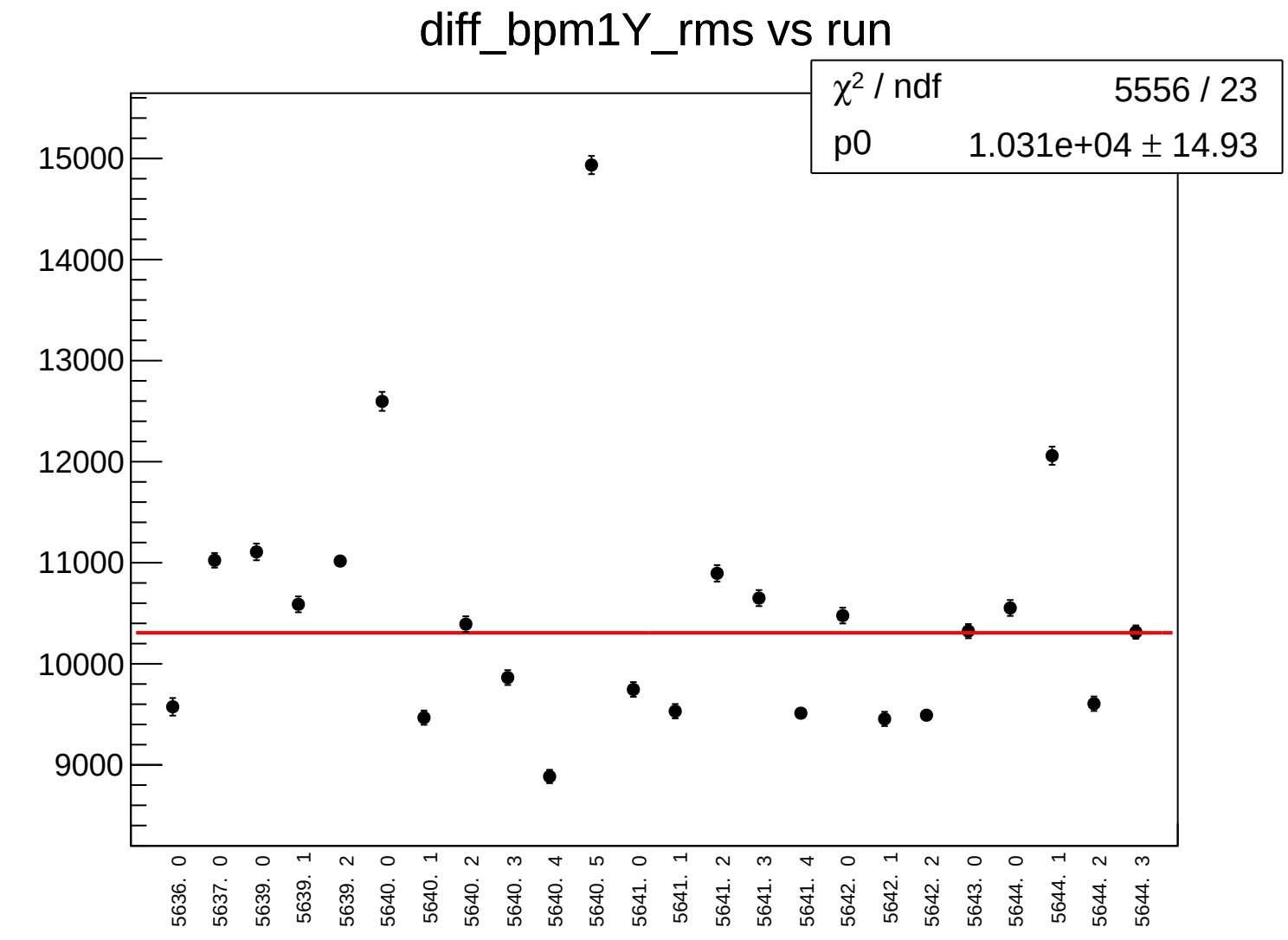

pull1D
Entries 24
Mean 0.02013
Std Dev 1.014
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

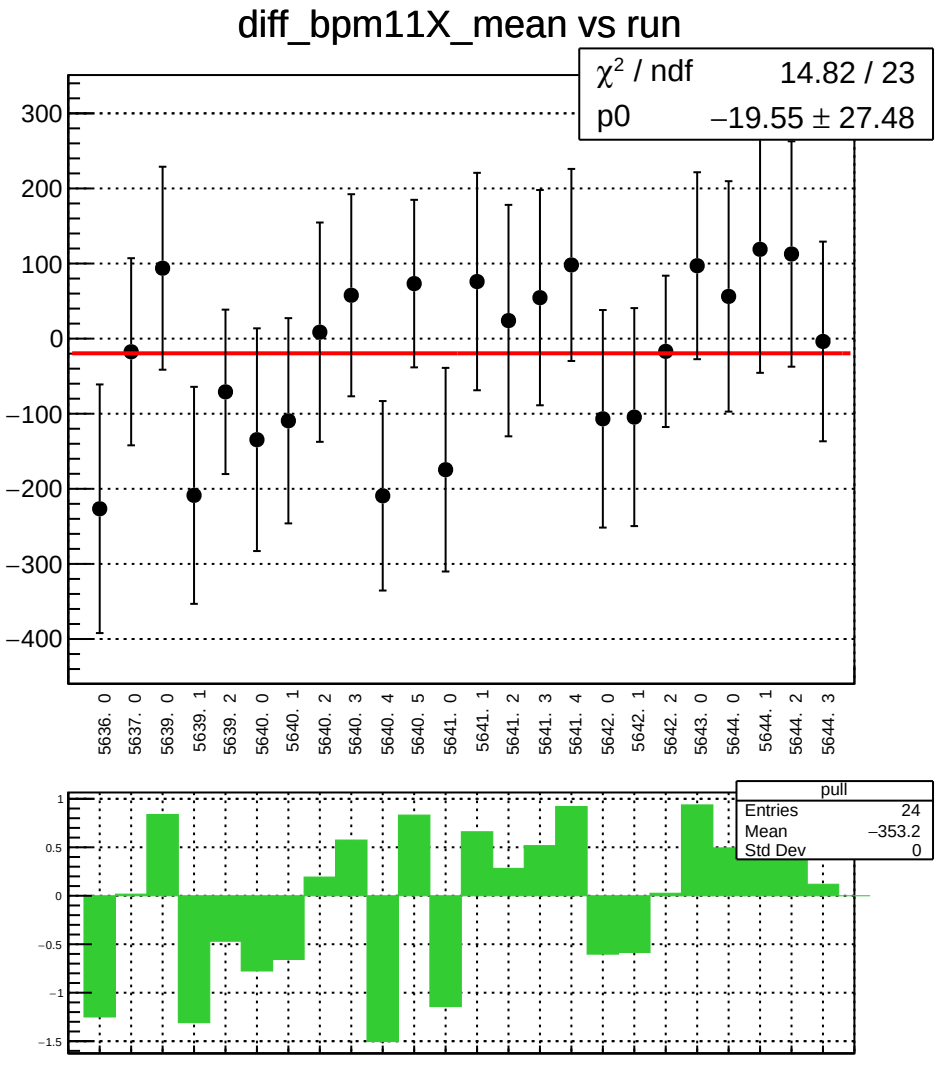

diff_bpm1X_rms vs run
χ² / ndf 816.5 / 23
p0 1.475e+04 ± 21.26
16000
15500
15000
14500
14000
13500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

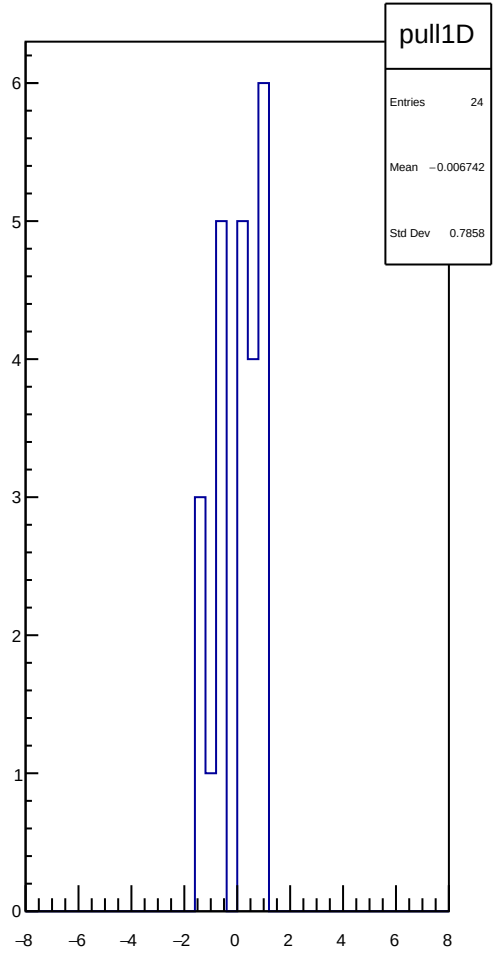

diff_bpm1Y_mean vs run
χ^2 / ndf 22.37 / 23
p0 23.98 ± 21.11
300
200
100
0
−100
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

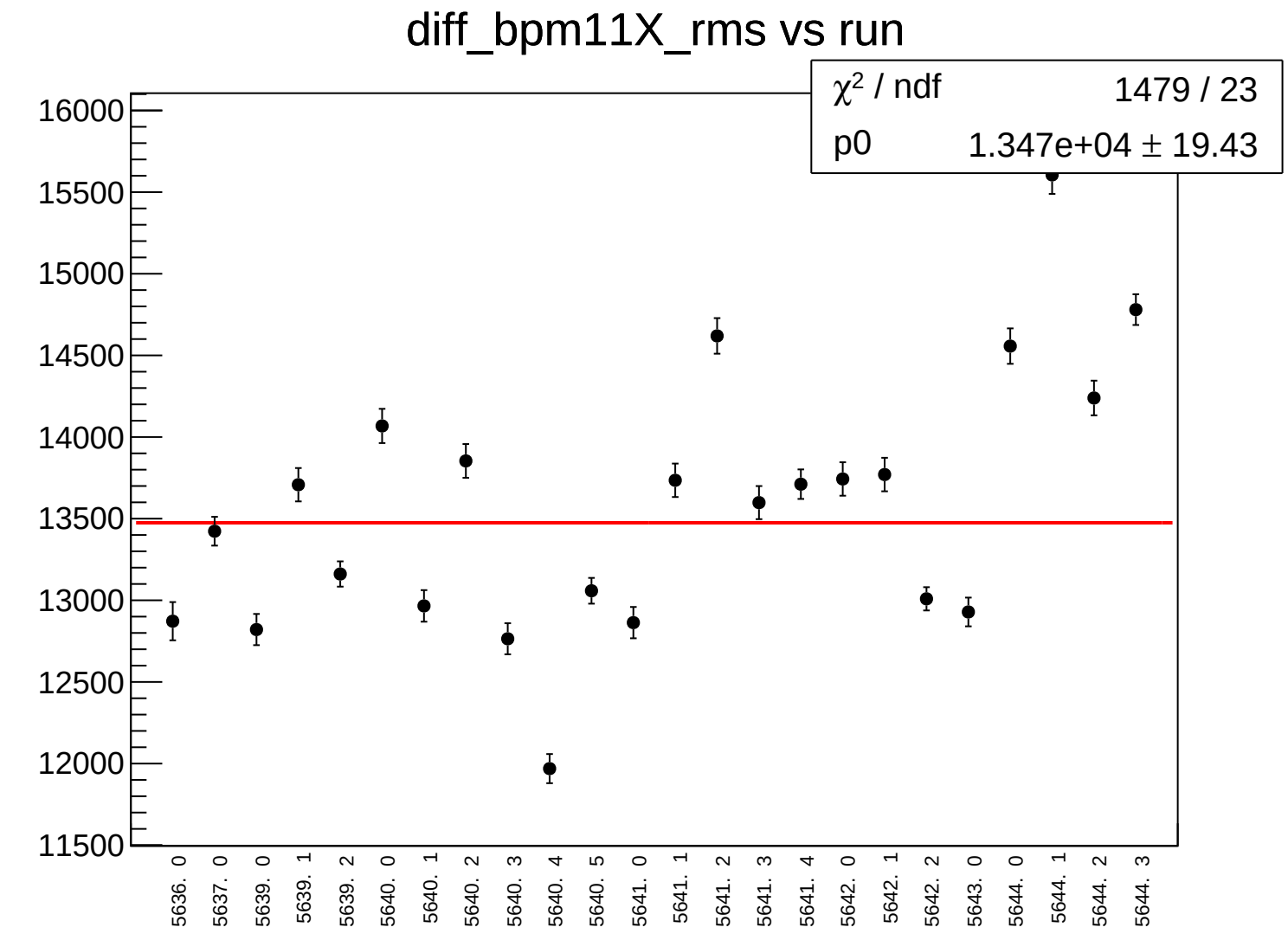

pull
Entries 24
Mean −24.55
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

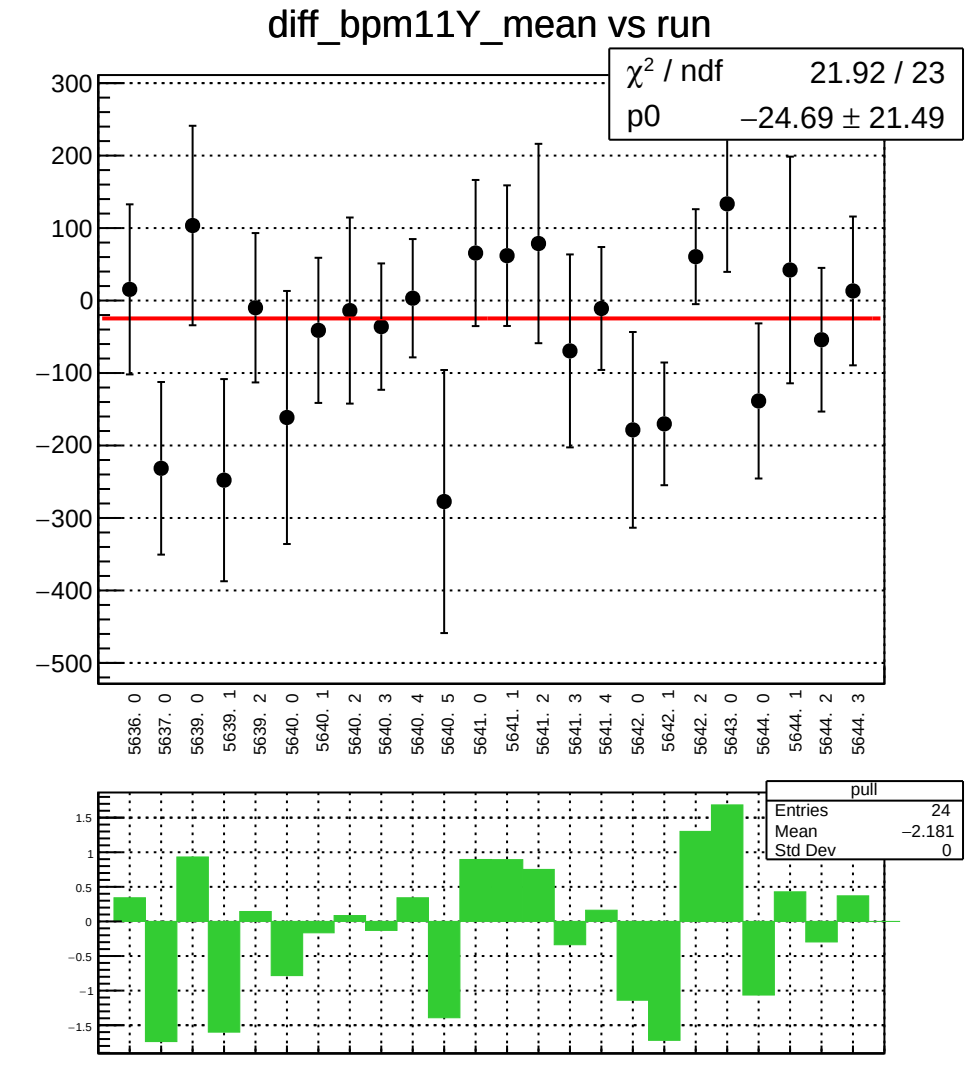

pull1D
Entries 24
Mean 0.04344
Std Dev 0.9644
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

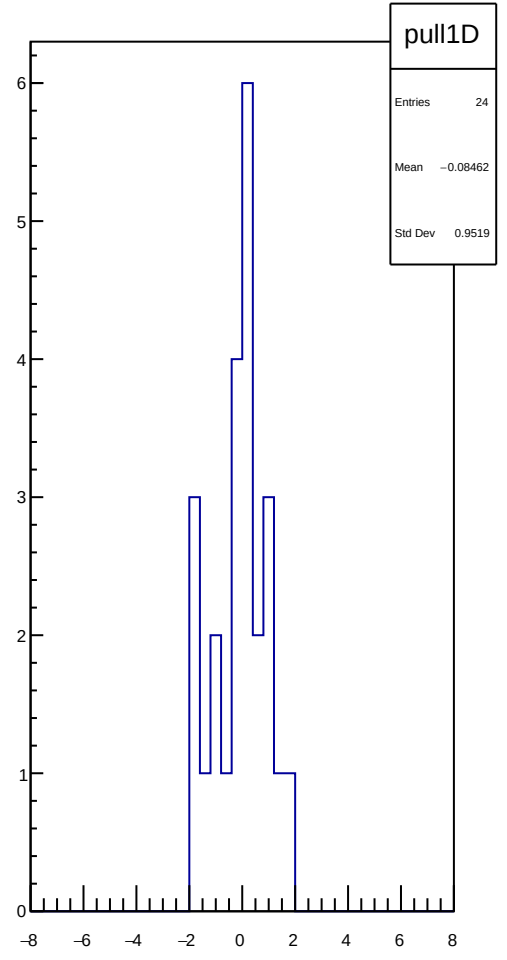

diff_bpm1Y_rms vs run
χ² / ndf 5556 / 23
p0 1.031e+04 ± 14.93
15000
14000
13000
12000
11000
10000
9000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

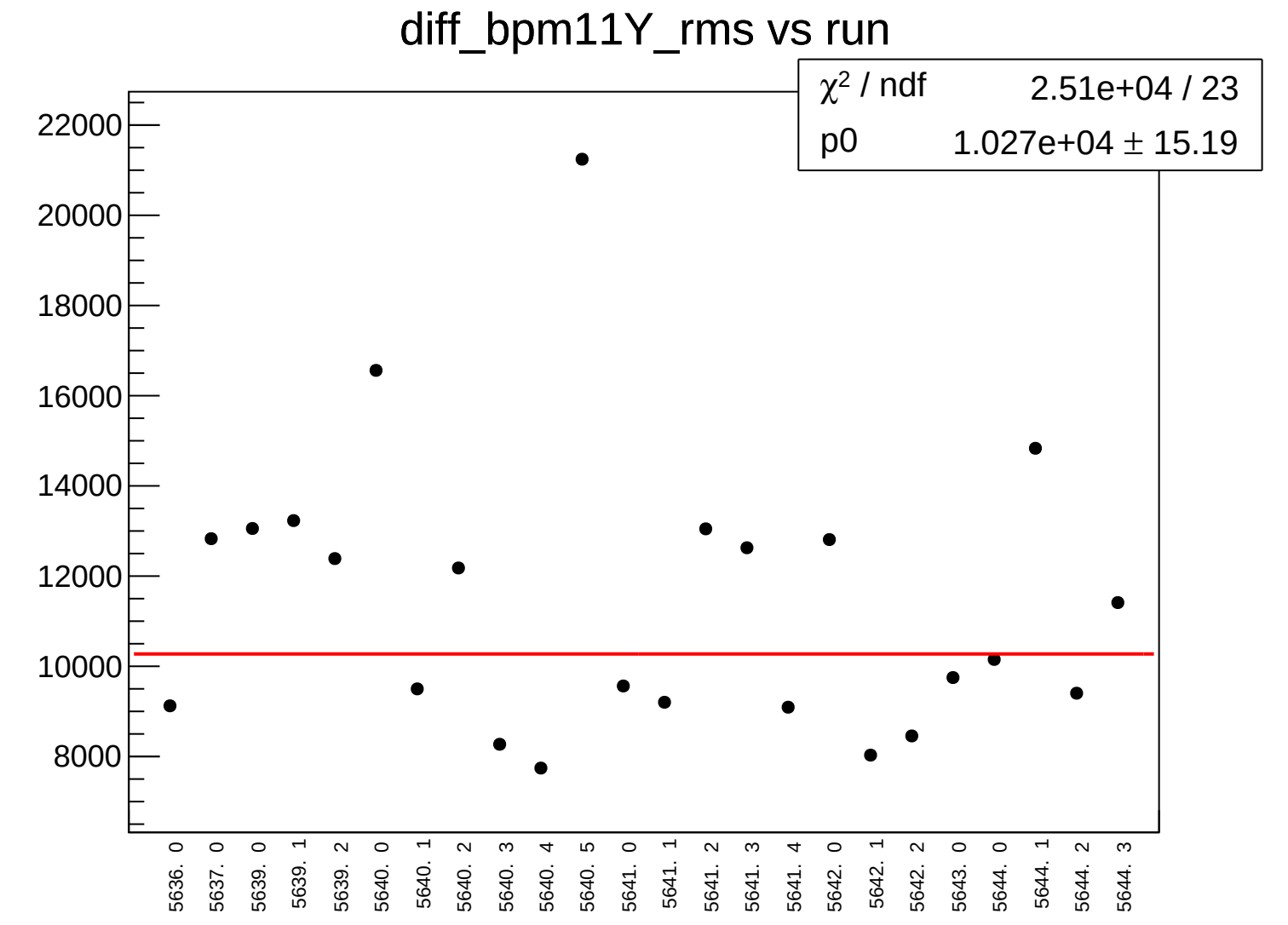

diff_bpm11X_mean vs run
χ² / ndf 14.82 / 23
p0 −19.55 ± 27.48
300
200
100
0
−100
−200
−300
−400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −353.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

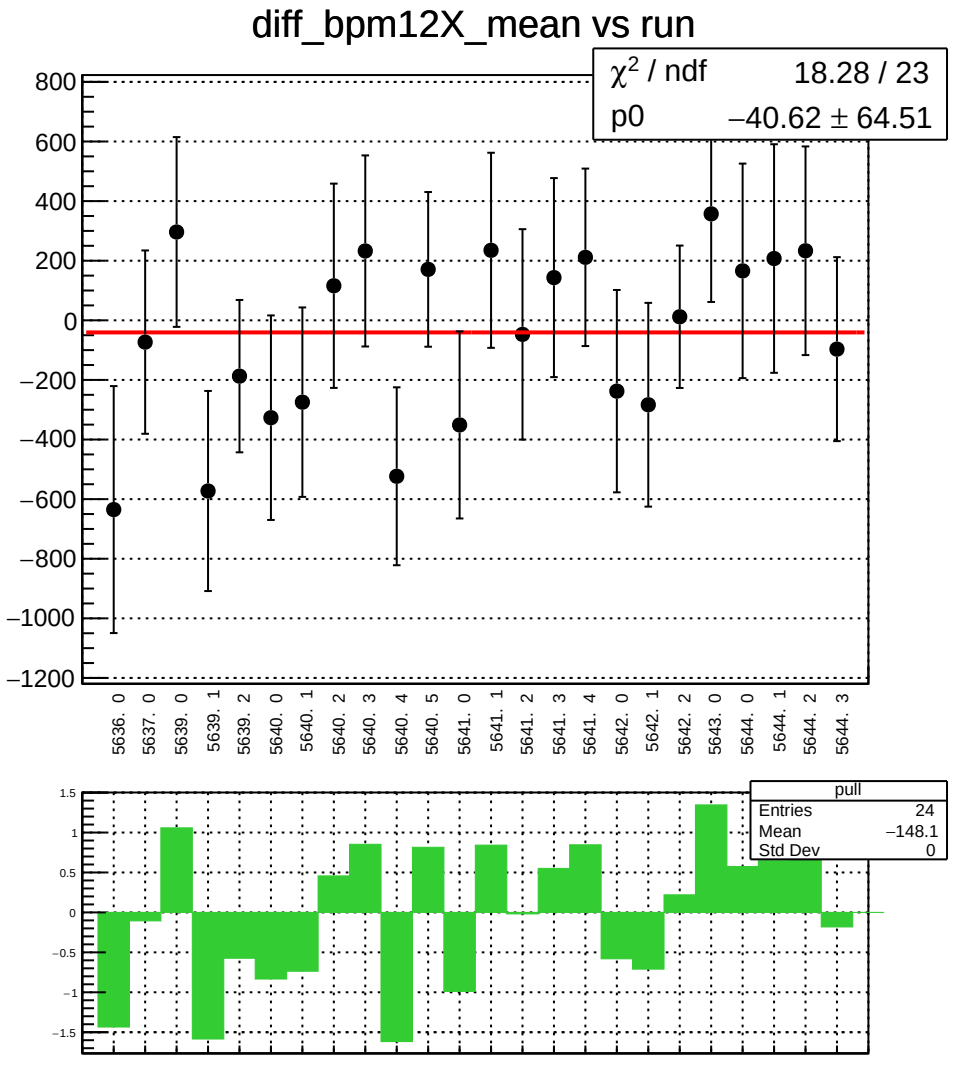

pull1D
Entries 24
Mean −0.006742
Std Dev 0.7858
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

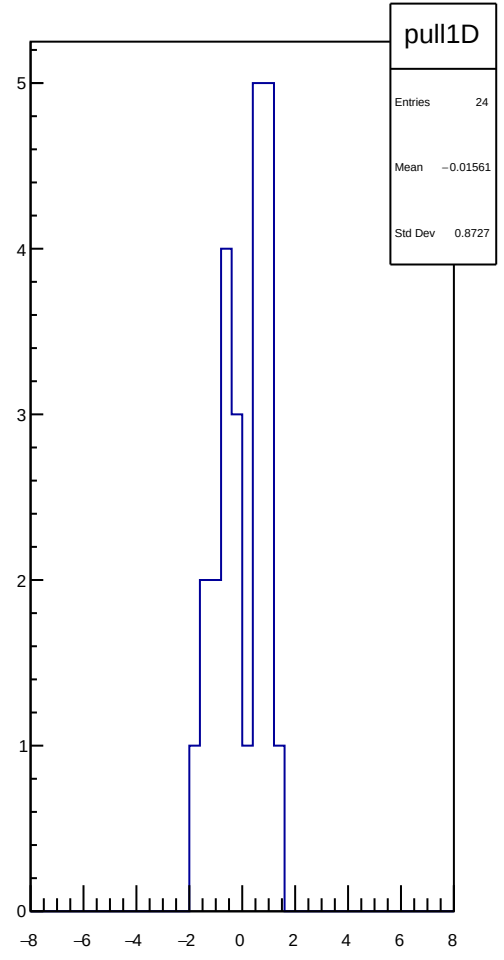

diff_bpm11X_rms vs run
χ² / ndf 1479 / 23
p0 1.347e+04 ± 19.43
16000
15500
15000
14500
14000
13500
13000
12500
12000
11500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

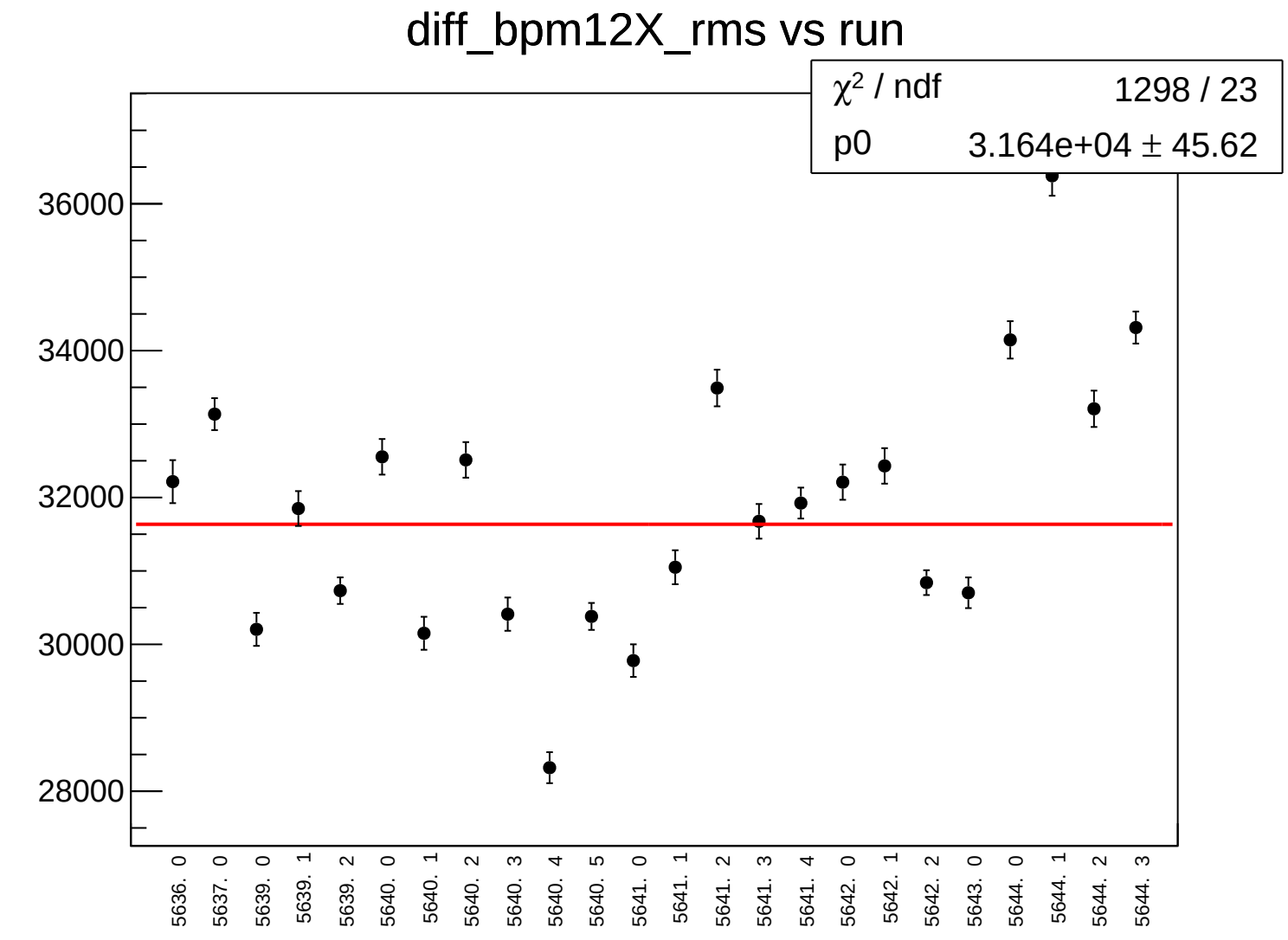

diff_bpm11Y_mean vs run
χ² / ndf 21.92 / 23
p0 −24.69 ± 21.49
300
200
100
0
−100
−200
−300
−400
−500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −2.181
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

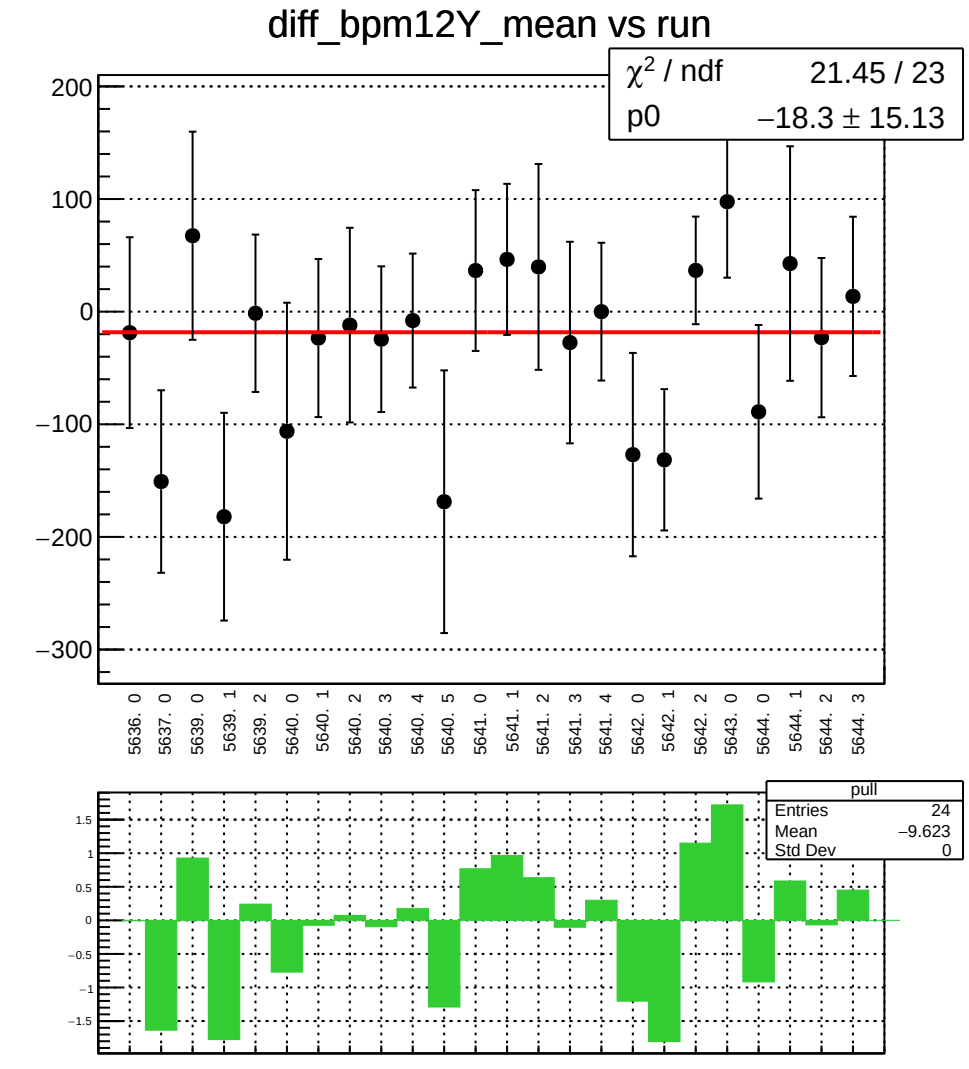

pull1D
Entries 24
Mean −0.08462
Std Dev 0.9519
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

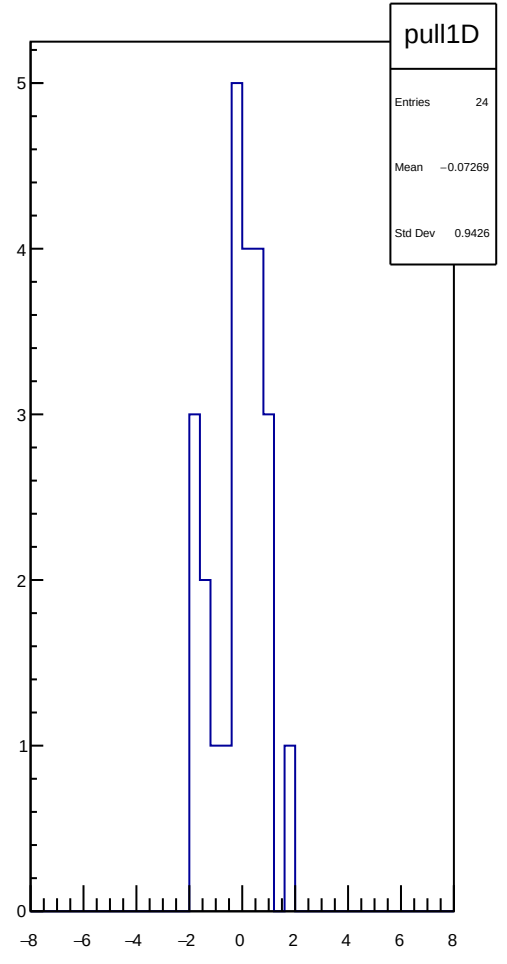

diff_bpm11Y_rms vs run
χ² / ndf 2.51e+04 / 23
p0 1.027e+04 ± 15.19
22000
20000
18000
16000
14000
12000
10000
8000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

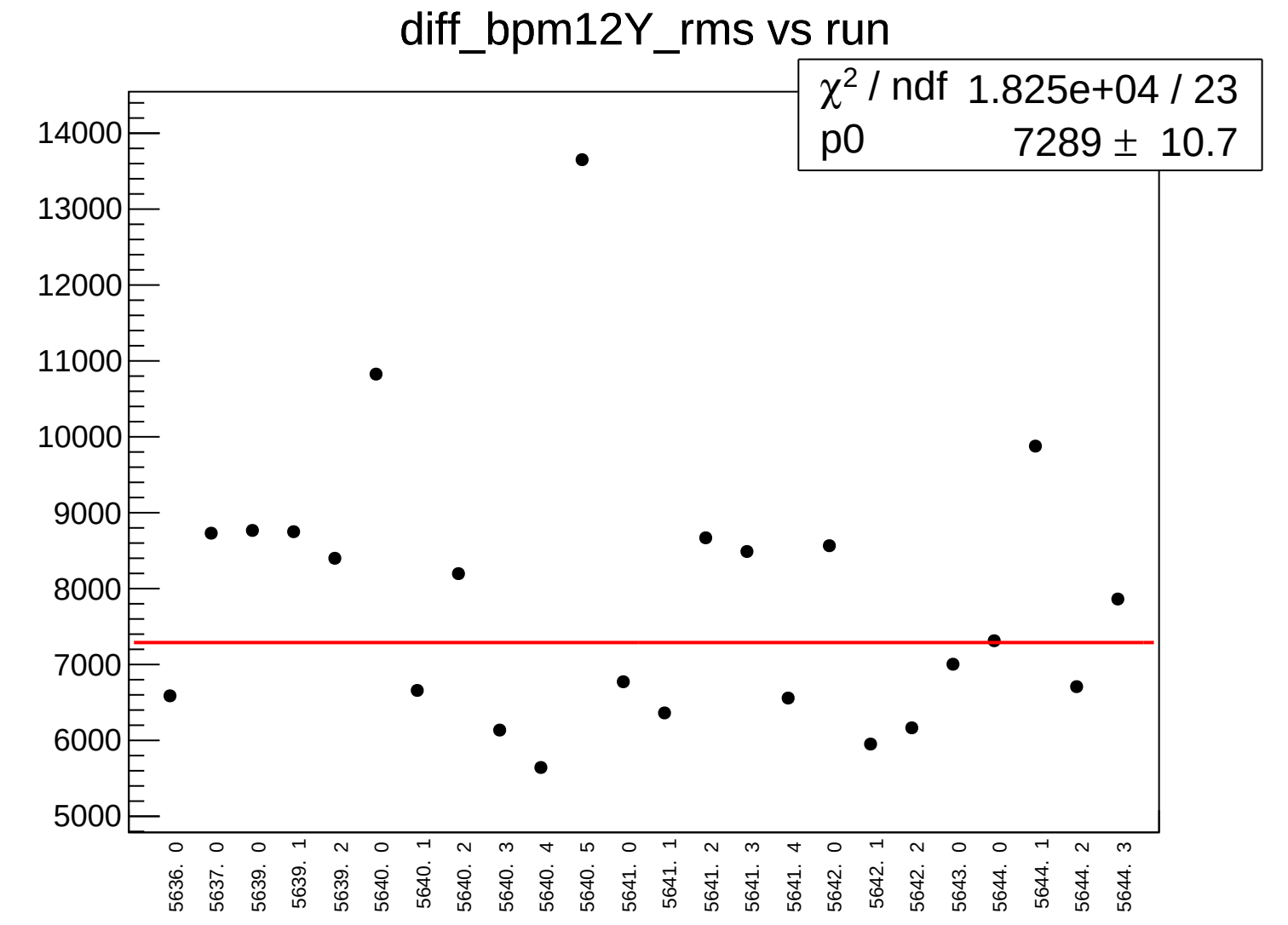

diff_bpm12X_mean vs run
χ² / ndf 18.28 / 23
p0 −40.62 ± 64.51
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −148.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

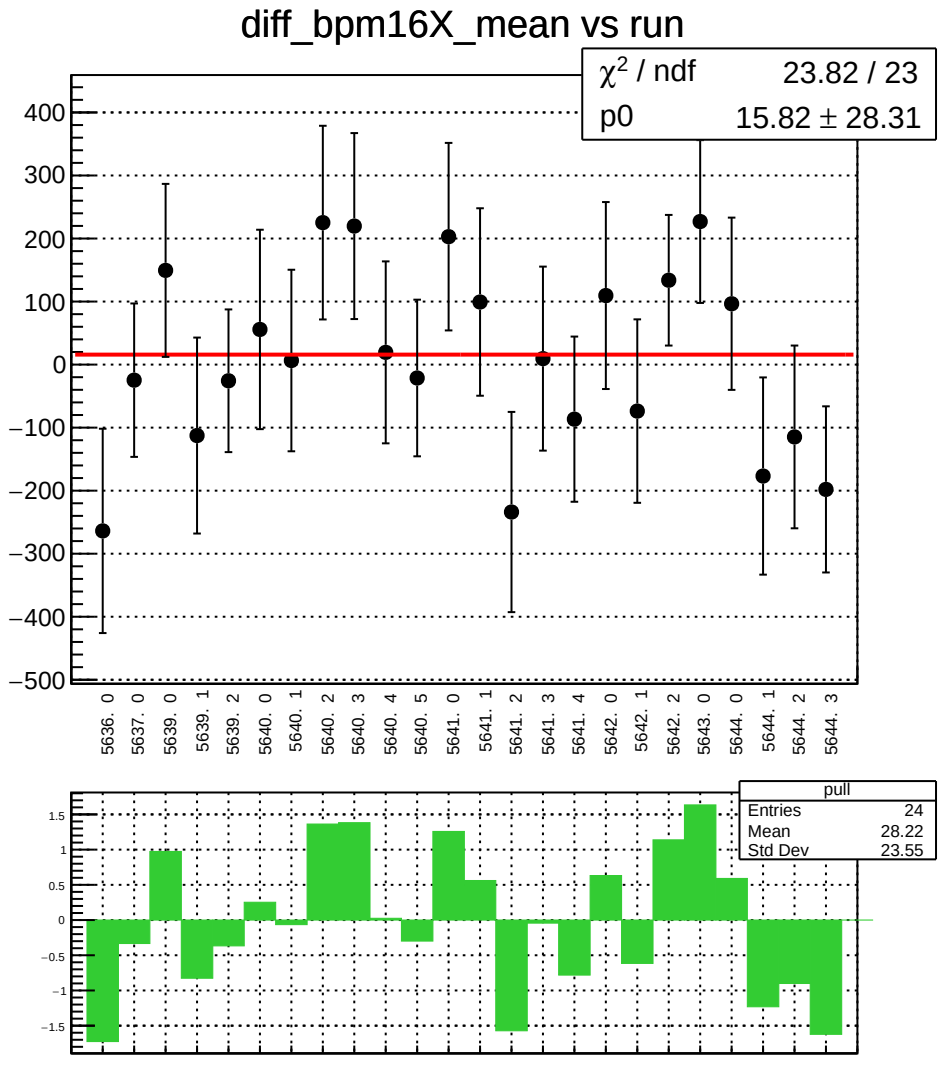

pull1D
Entries 24
Mean −0.01561
Std Dev 0.8727
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

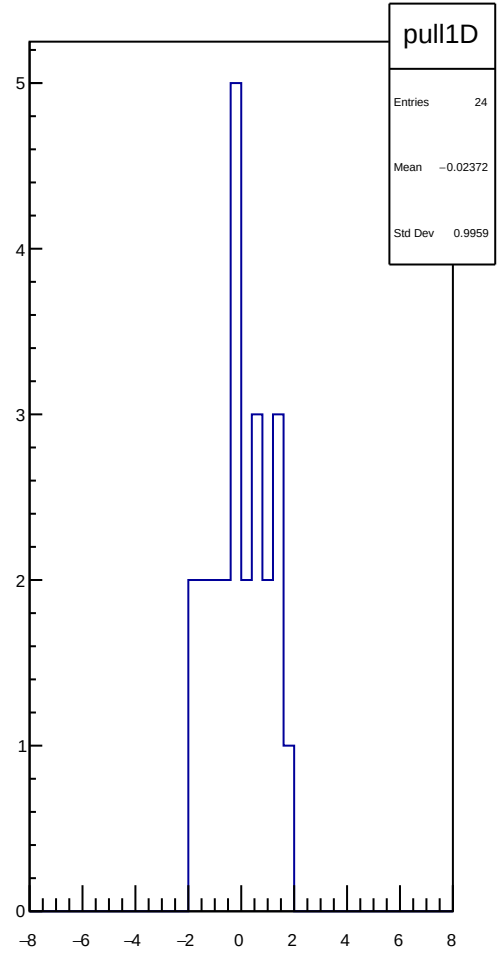

diff_bpm12X_rms vs run
χ² / ndf 1298 / 23
p0 3.164e+04 ± 45.62
36000
34000
32000
30000
28000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

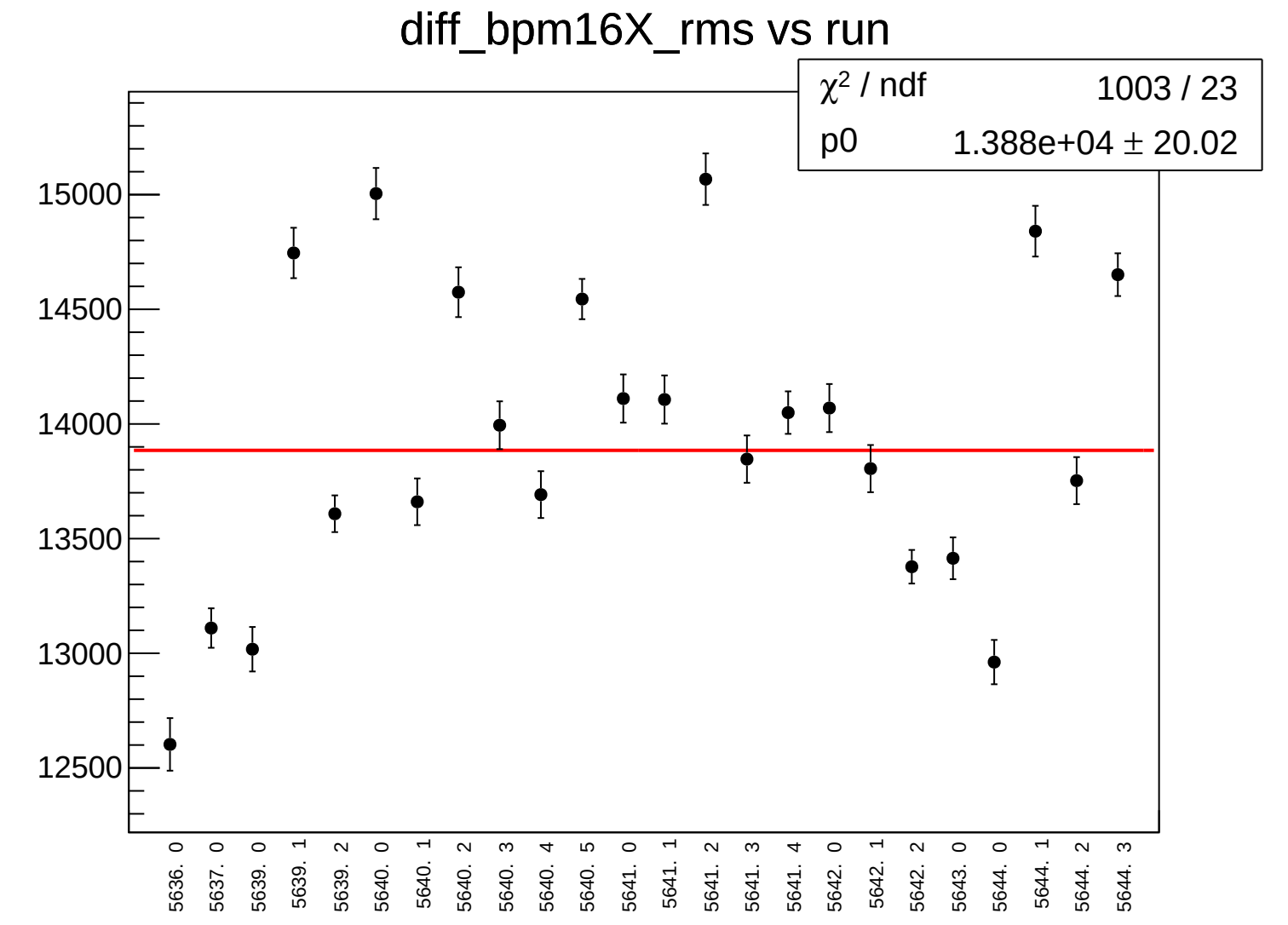

diff_bpm12Y_mean vs run
χ² / ndf 21.45 / 23
p0 −18.3 ± 15.13
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −9.623
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

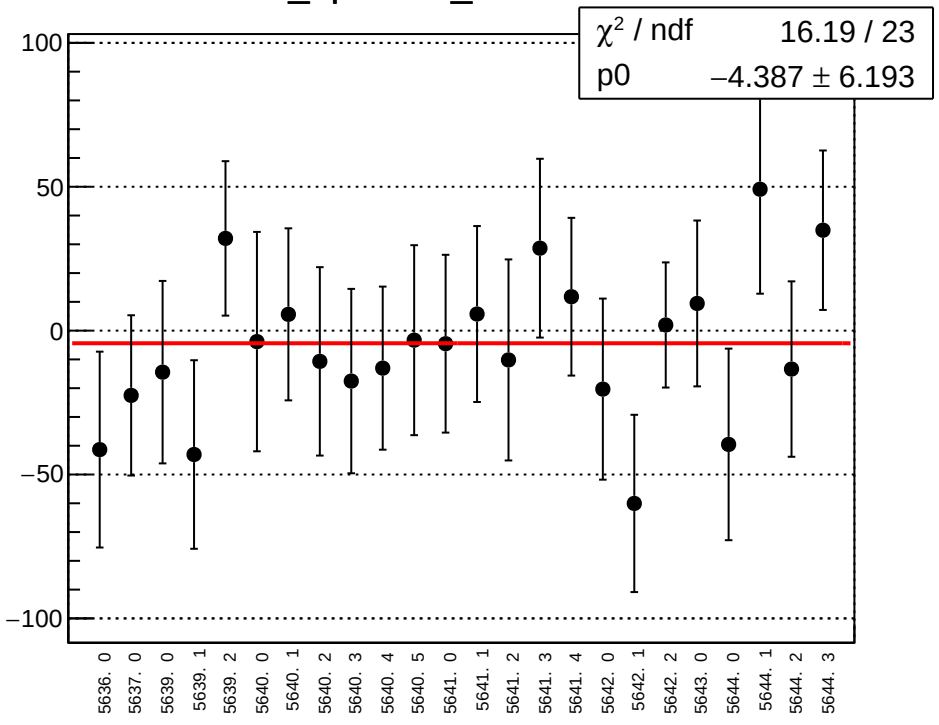

pull1D
Entries 24
Mean −0.07269
Std Dev 0.9426
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

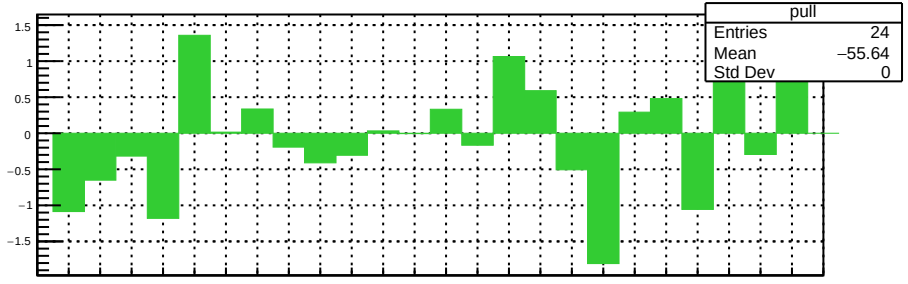

diff_bpm12Y_rms vs run
χ² / ndf 1.825e+04 / 23
p0 7289 ± 10.7
14000
13000
12000
11000
10000
9000
8000
7000
6000
5000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

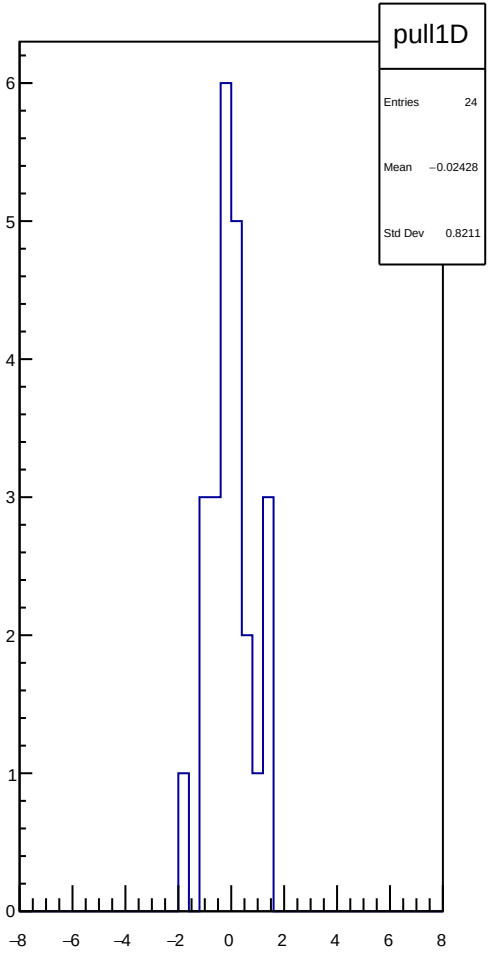

diff_bpm16X_mean vs run
χ² / ndf 23.82 / 23
p0 15.82 ± 28.31
400
300
200
100
0
−100
−200
−300
−400
−500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 28.22
Std Dev 23.55
1.5
1
0.5
0
−0.5
−1
−1.5

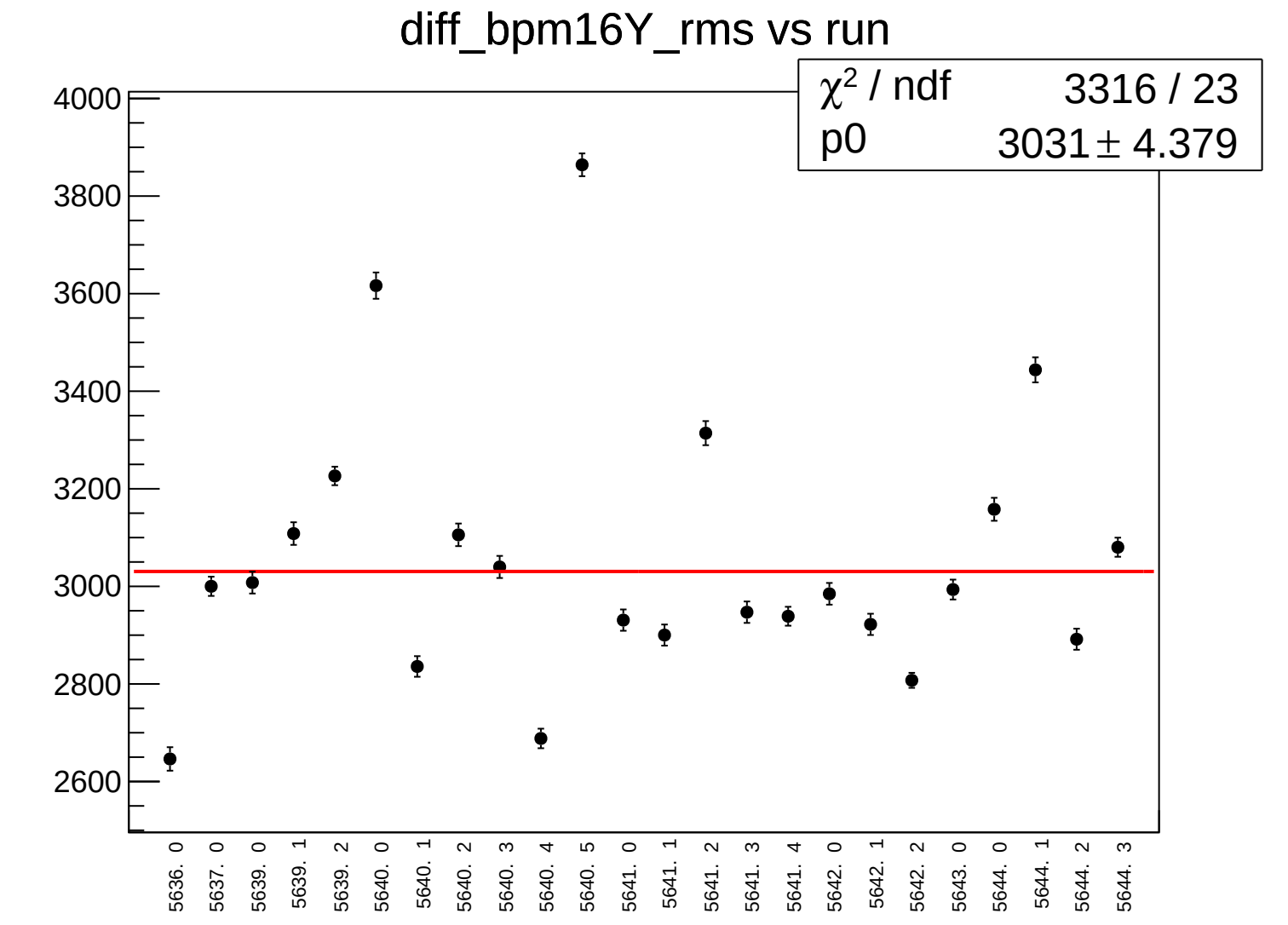

pull1D
Entries 24
Mean −0.02372
Std Dev 0.9959
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

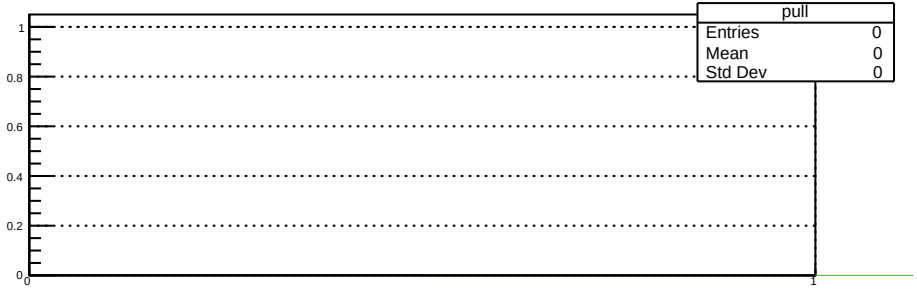

diff_bpm16X_rms vs run
χ² / ndf 1003 / 23
p0 1.388e+04 ± 20.02
15000
14500
14000
13500
13000
12500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

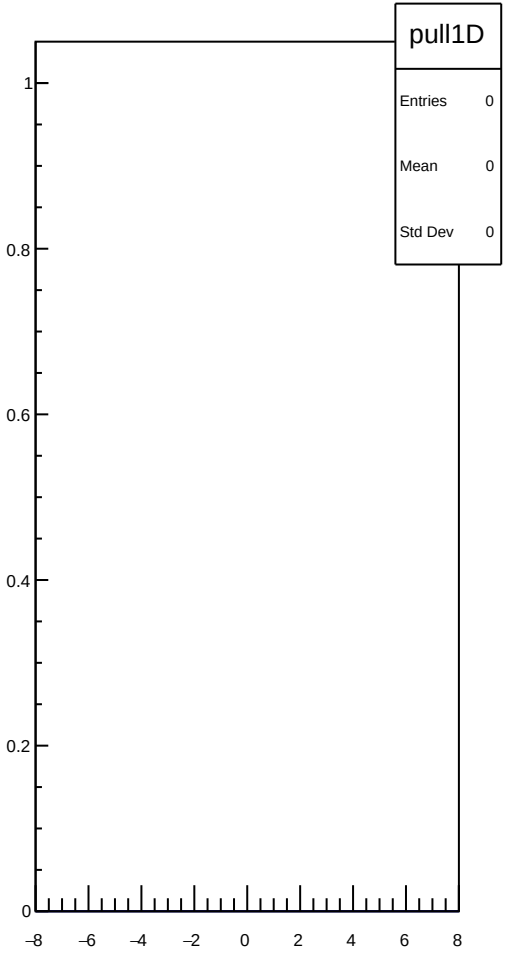

diff_bpm16Y_mean vs run
χ² / ndf 16.19 / 23
p0 −4.387 ± 6.193
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

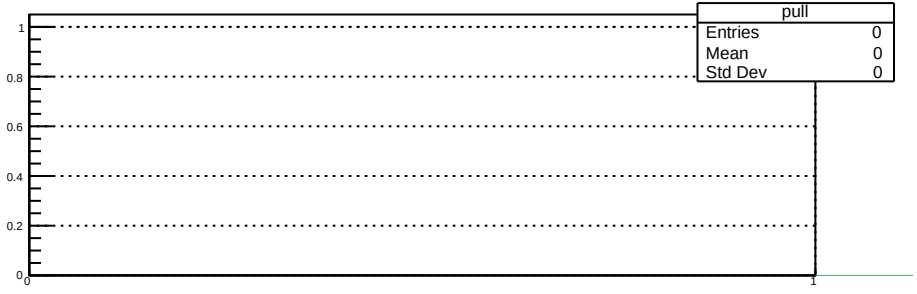

pull
Entries 24
Mean −55.64
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

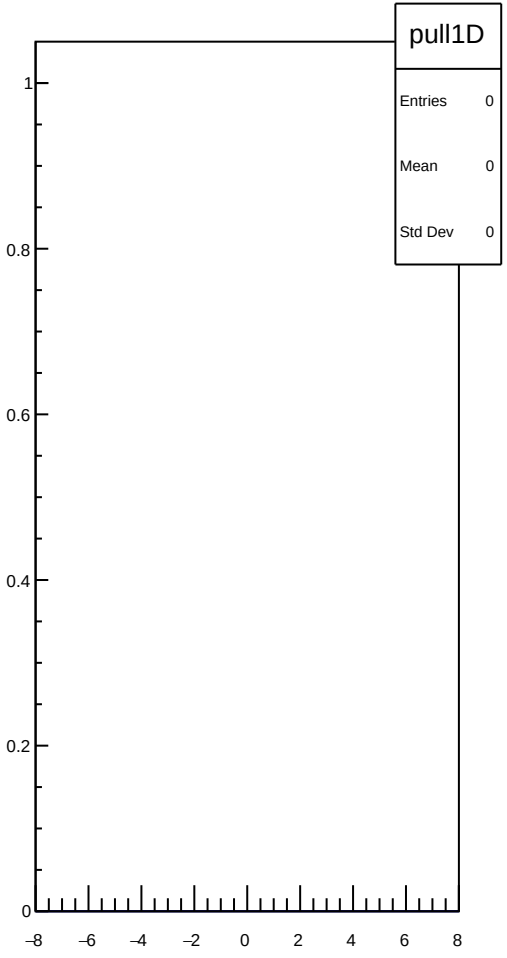

pull1D
Entries 24
Mean −0.02428
Std Dev 0.8211
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

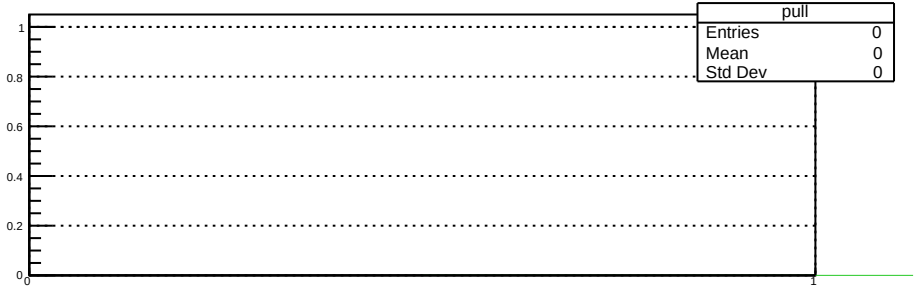

diff_bpm16Y_rms vs run
χ² / ndf 3316 / 23
p0 3031 ± 4.379
4000
3800
3600
3400
3200
3000
2800
2600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

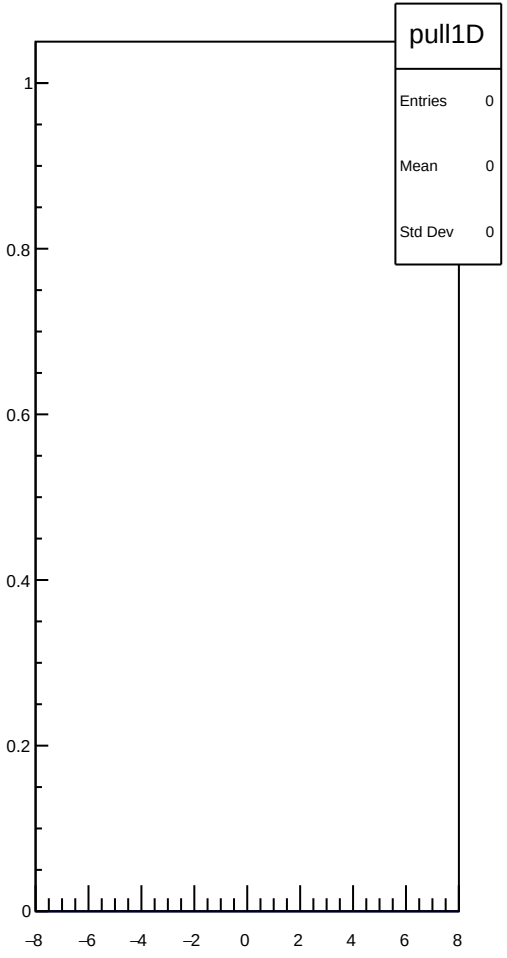

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

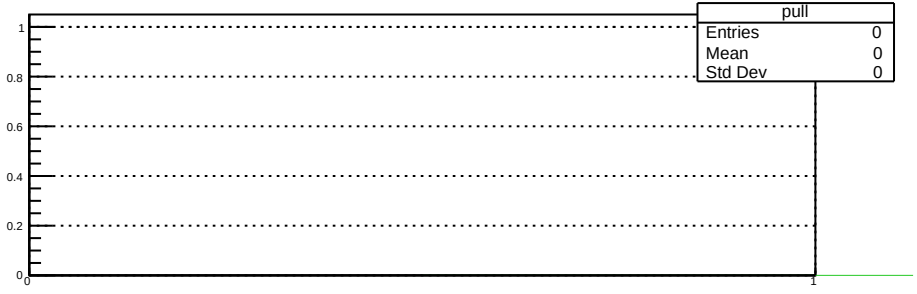

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

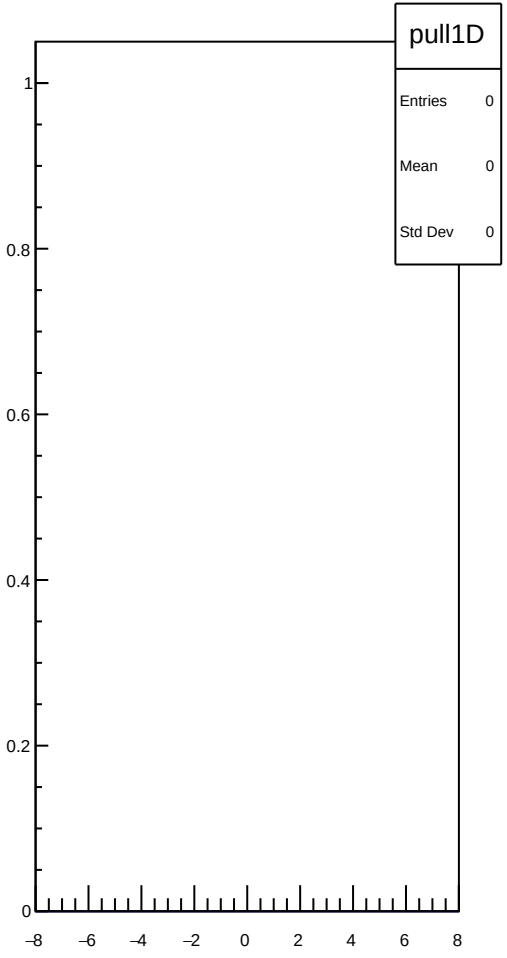

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

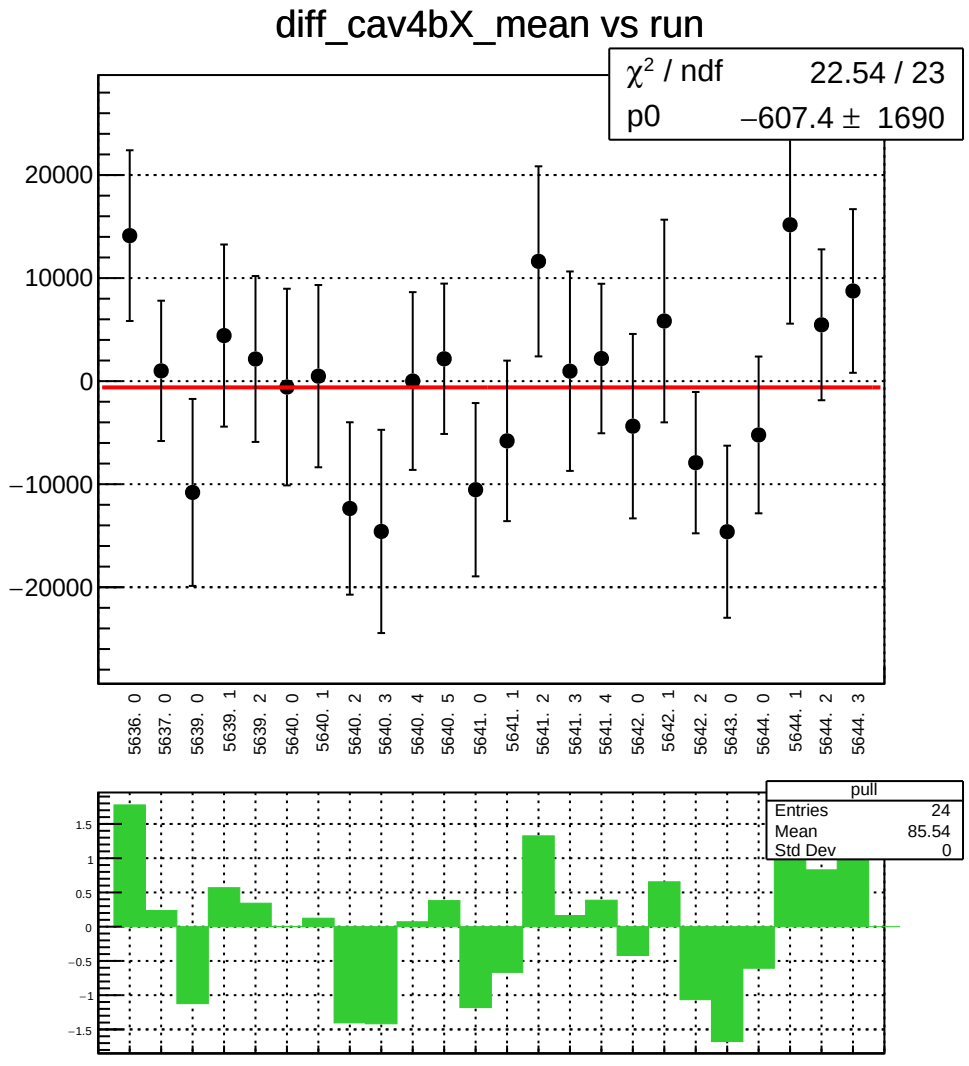

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

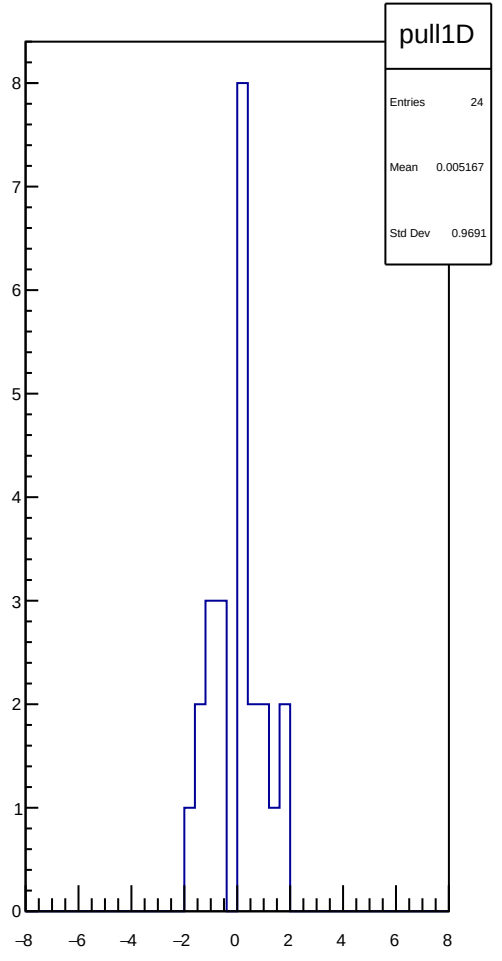

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

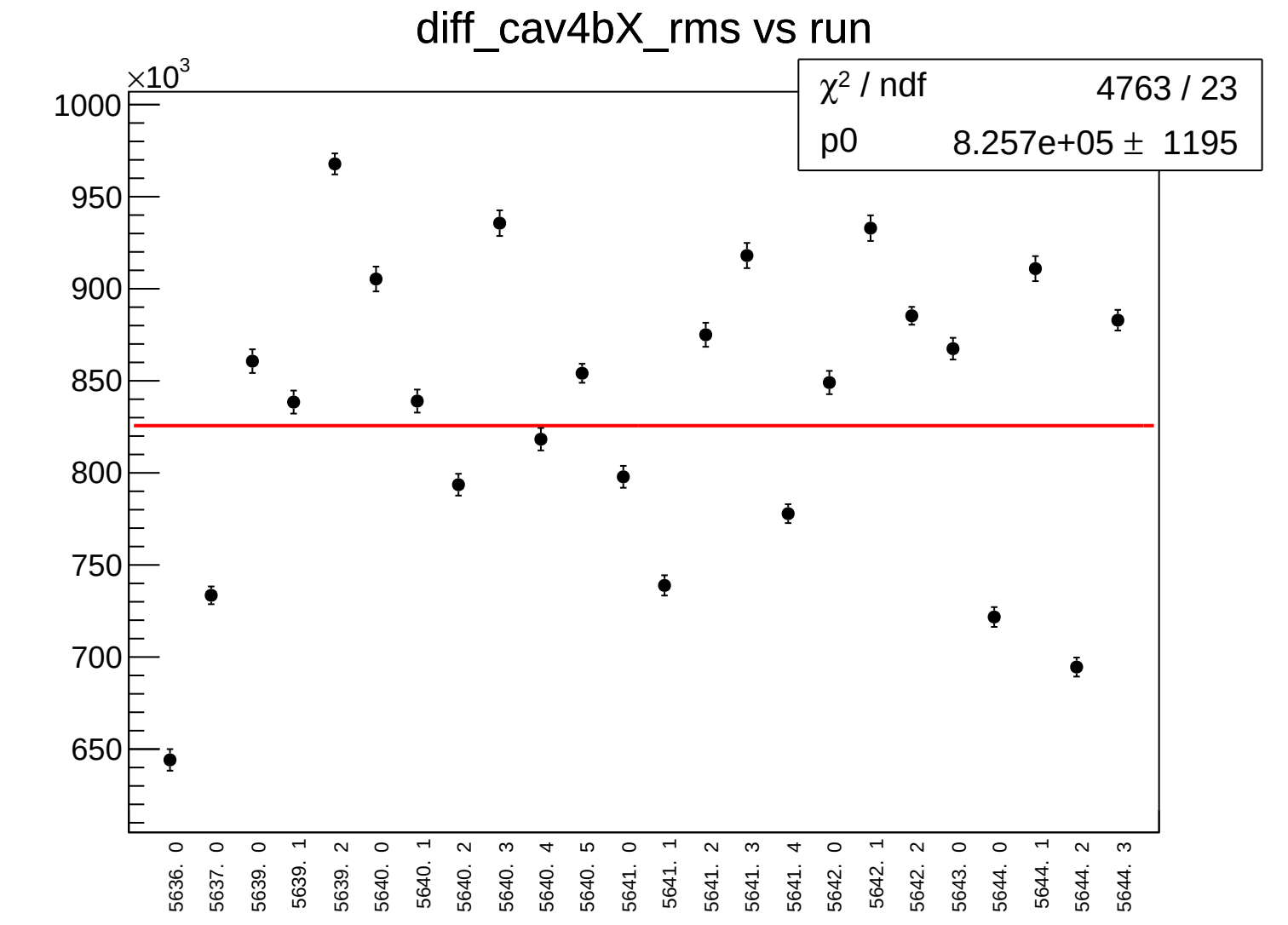

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

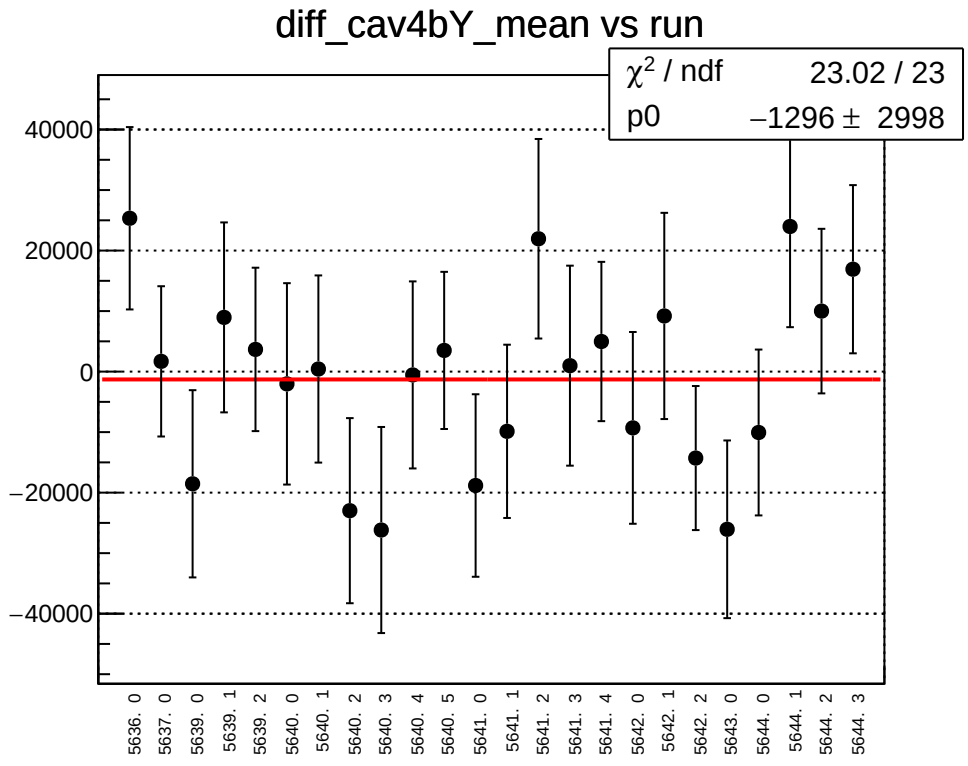

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

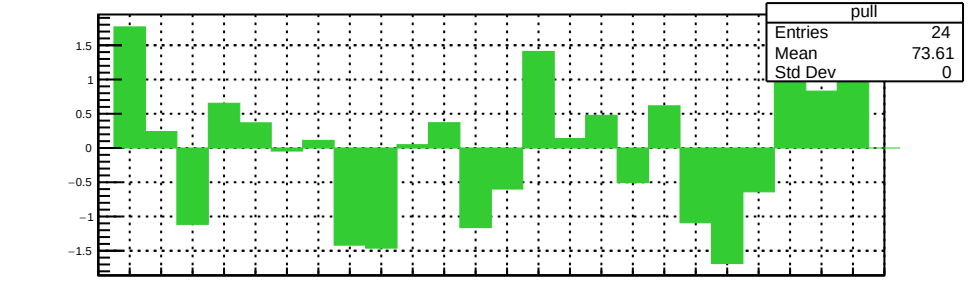

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

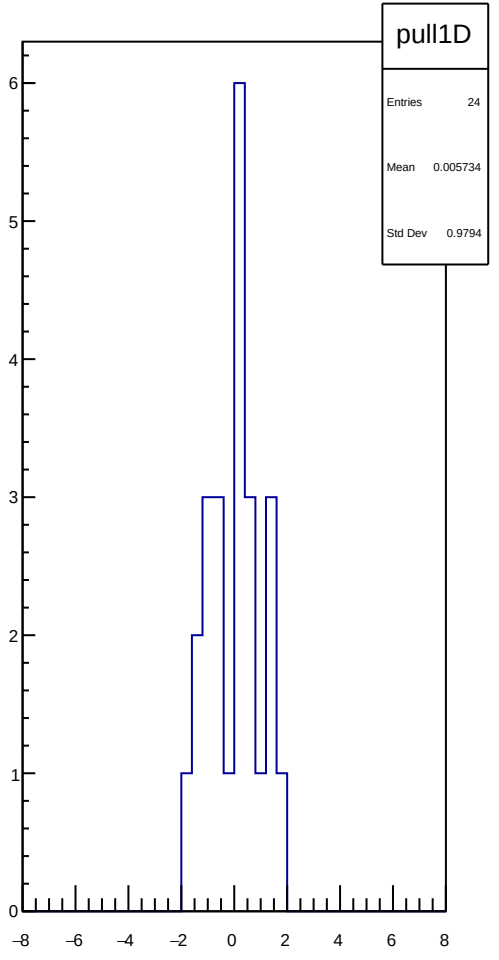

diff_cav4bX_mean vs run
χ² / ndf 22.54 / 23
p0 −607.4 ± 1690
20000
10000
0
−10000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 85.54
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

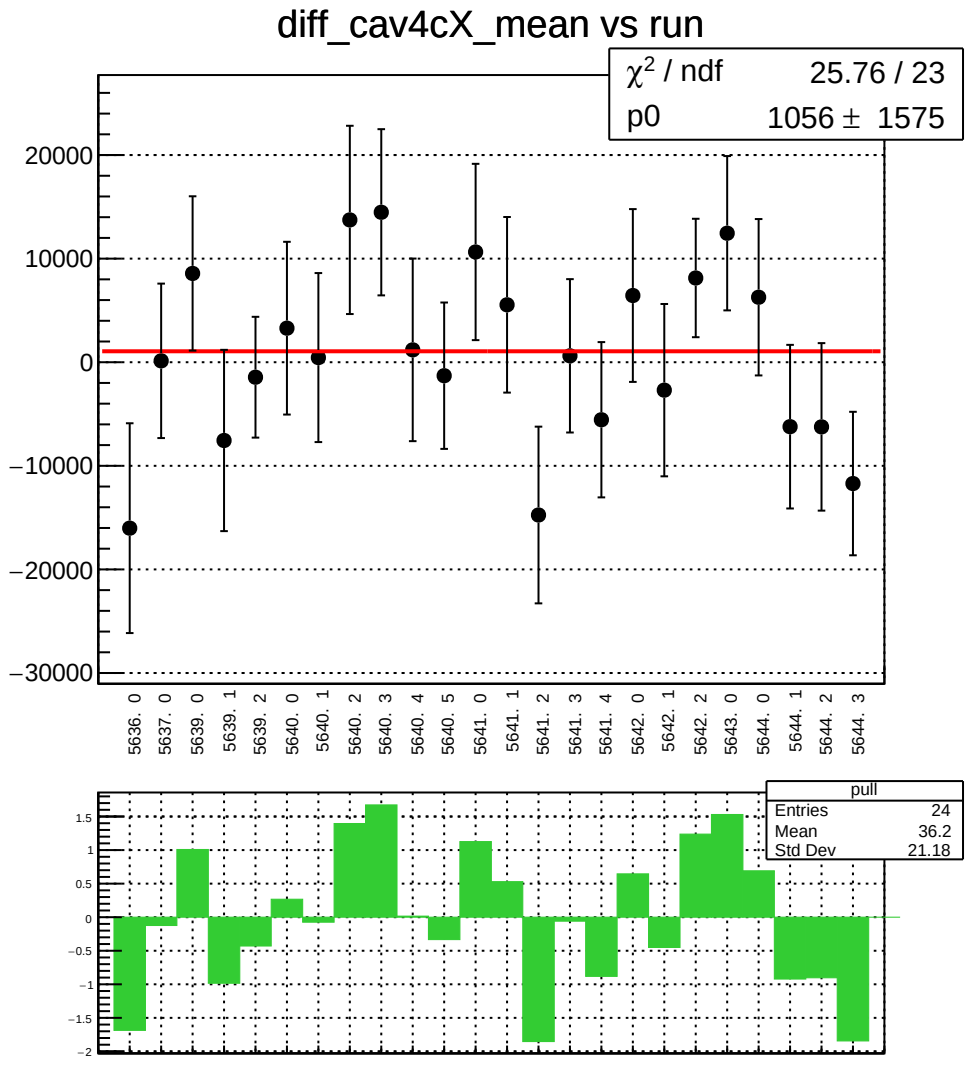

pull1D
Entries 24
Mean 0.005167
Std Dev 0.9691
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

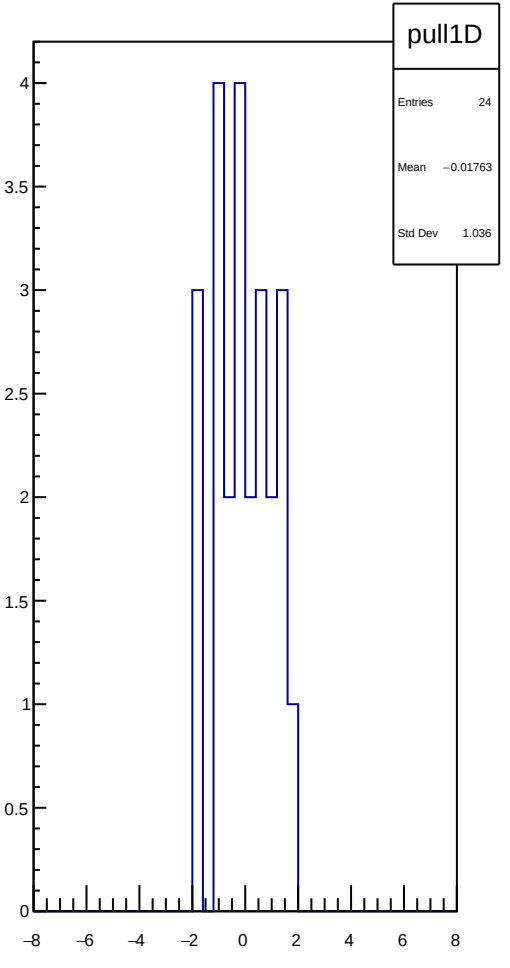

diff_cav4bX_rms vs run
×10^3
1000
950
900
850
800
750
700
650
χ² / ndf 4763 / 23
p0 8.257e+05 ± 1195
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

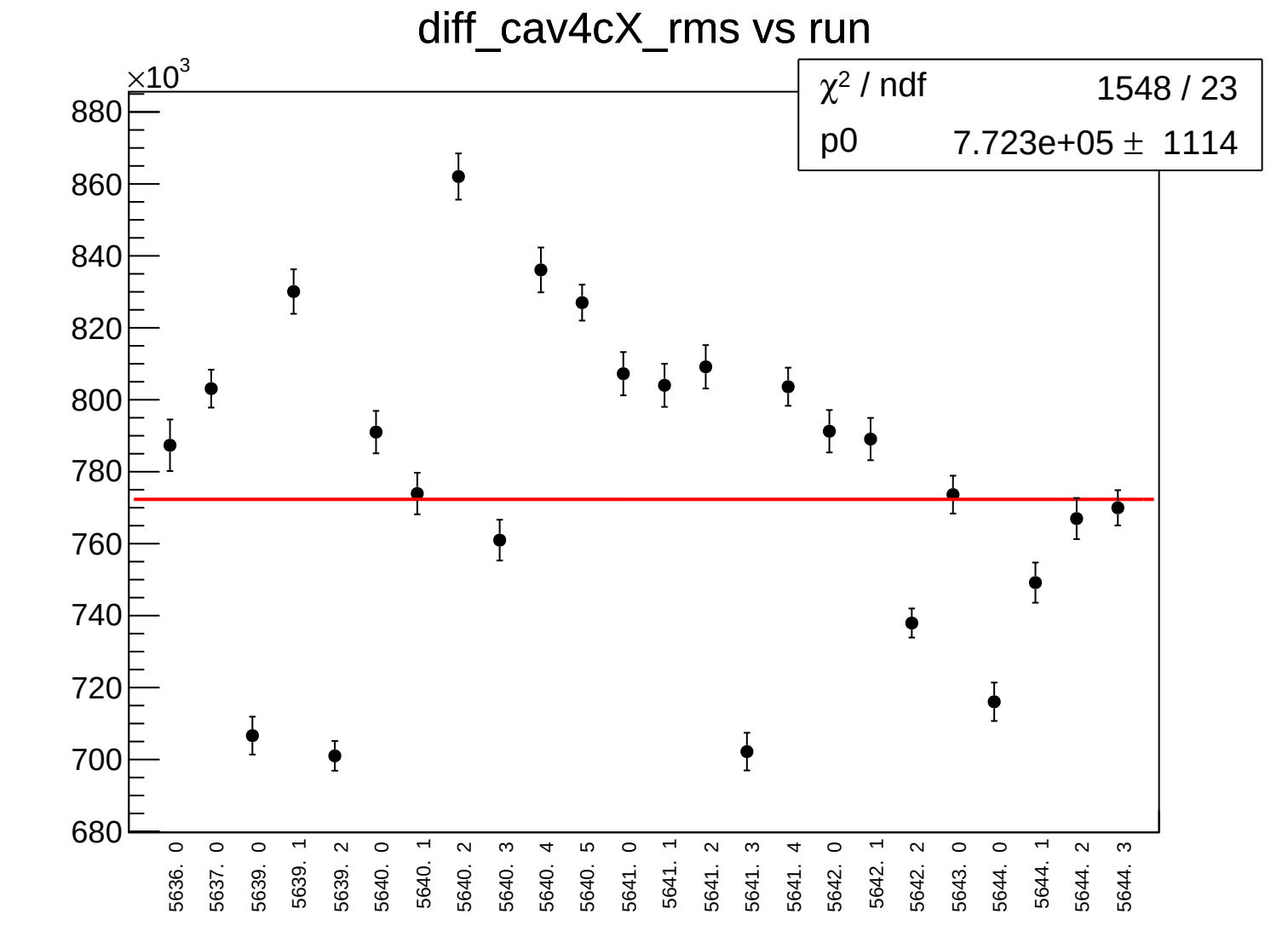

diff_cav4bY_mean vs run
χ² / ndf 23.02 / 23
p0 −1296 ± 2998
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

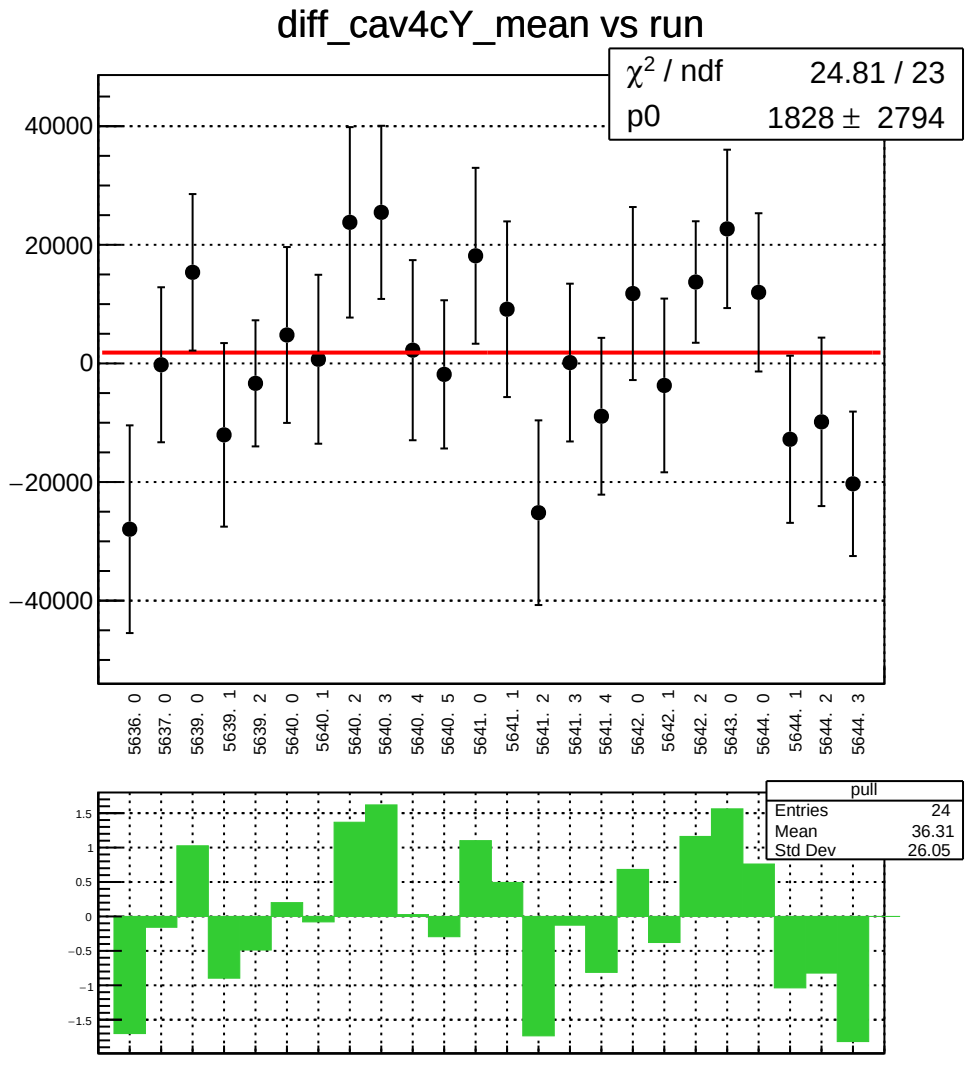

pull
Entries 24
Mean 73.61
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

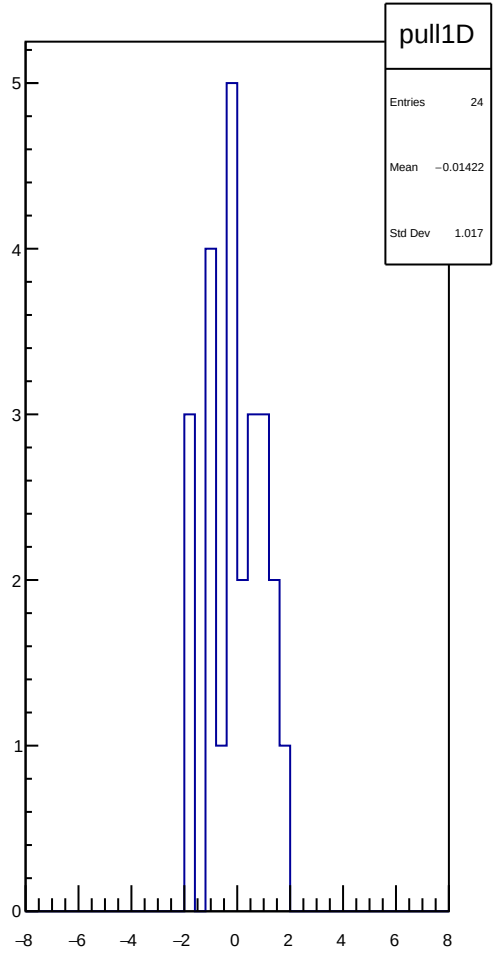

pull1D
Entries 24
Mean 0.005734
Std Dev 0.9794
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

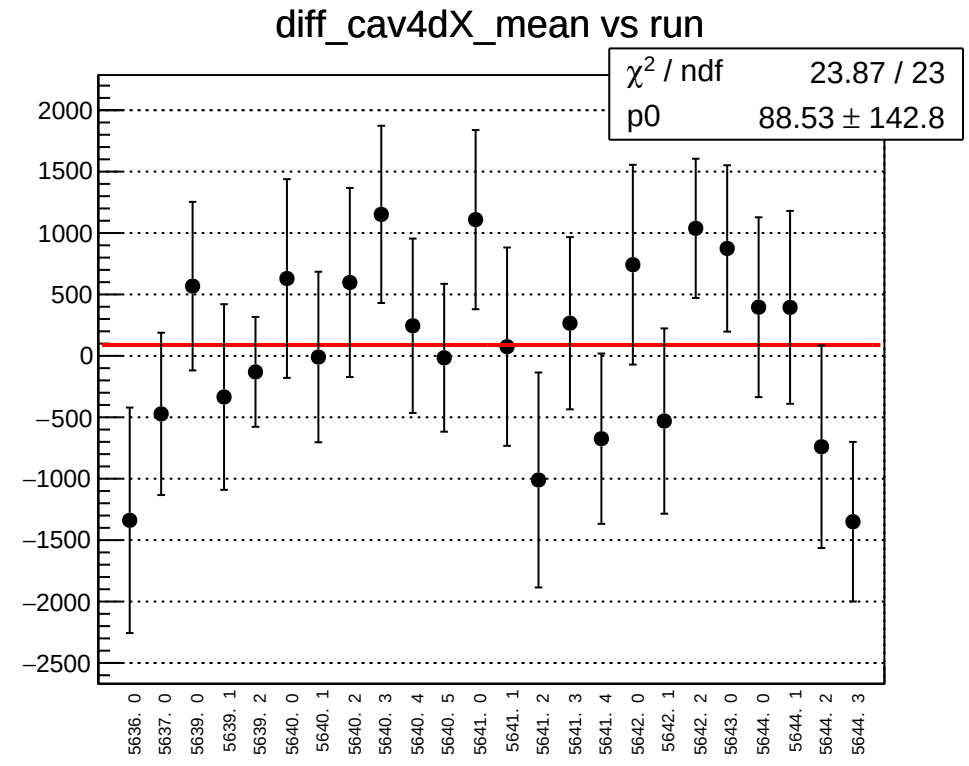

diff_cav4cX_mean vs run
χ² / ndf 25.76 / 23
p0 1056 ± 1575
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 36.2
Std Dev 21.18
1.5
1
0.5
0
−0.5
−1
−1.5
−2

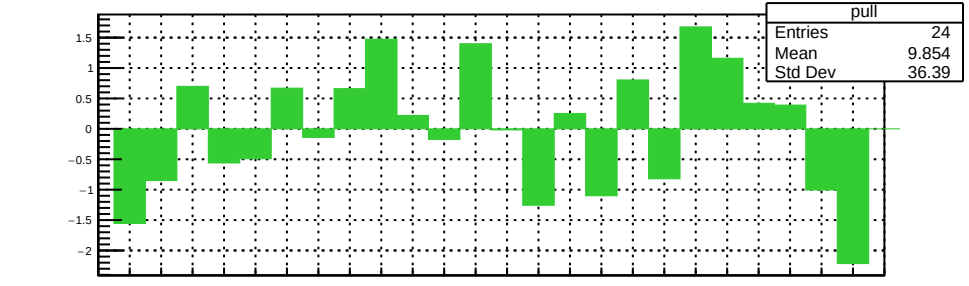

pull1D
Entries 24
Mean −0.01763
Std Dev 1.036
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

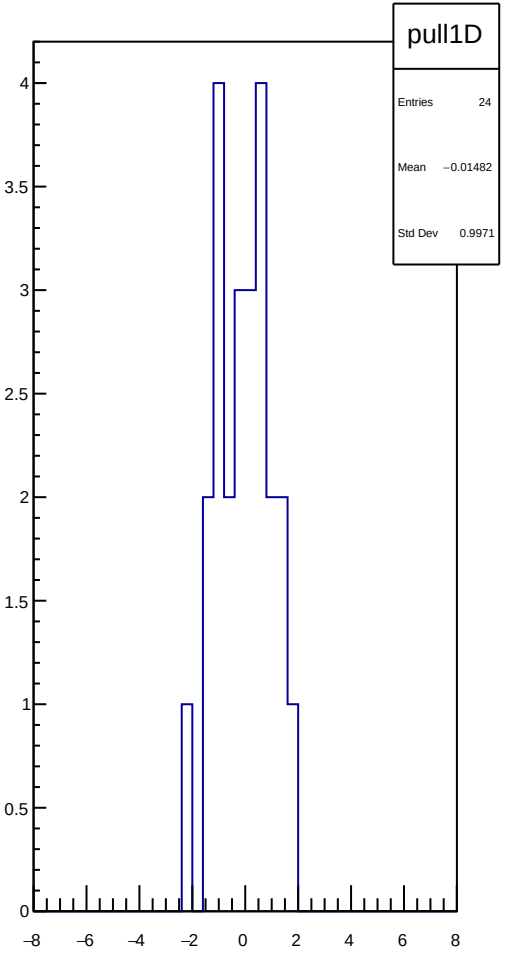

diff_cav4cX_rms vs run
×10^3
χ² / ndf 1548 / 23
p0 7.723e+05 ± 1114
880
860
840
820
800
780
760
740
720
700
680
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

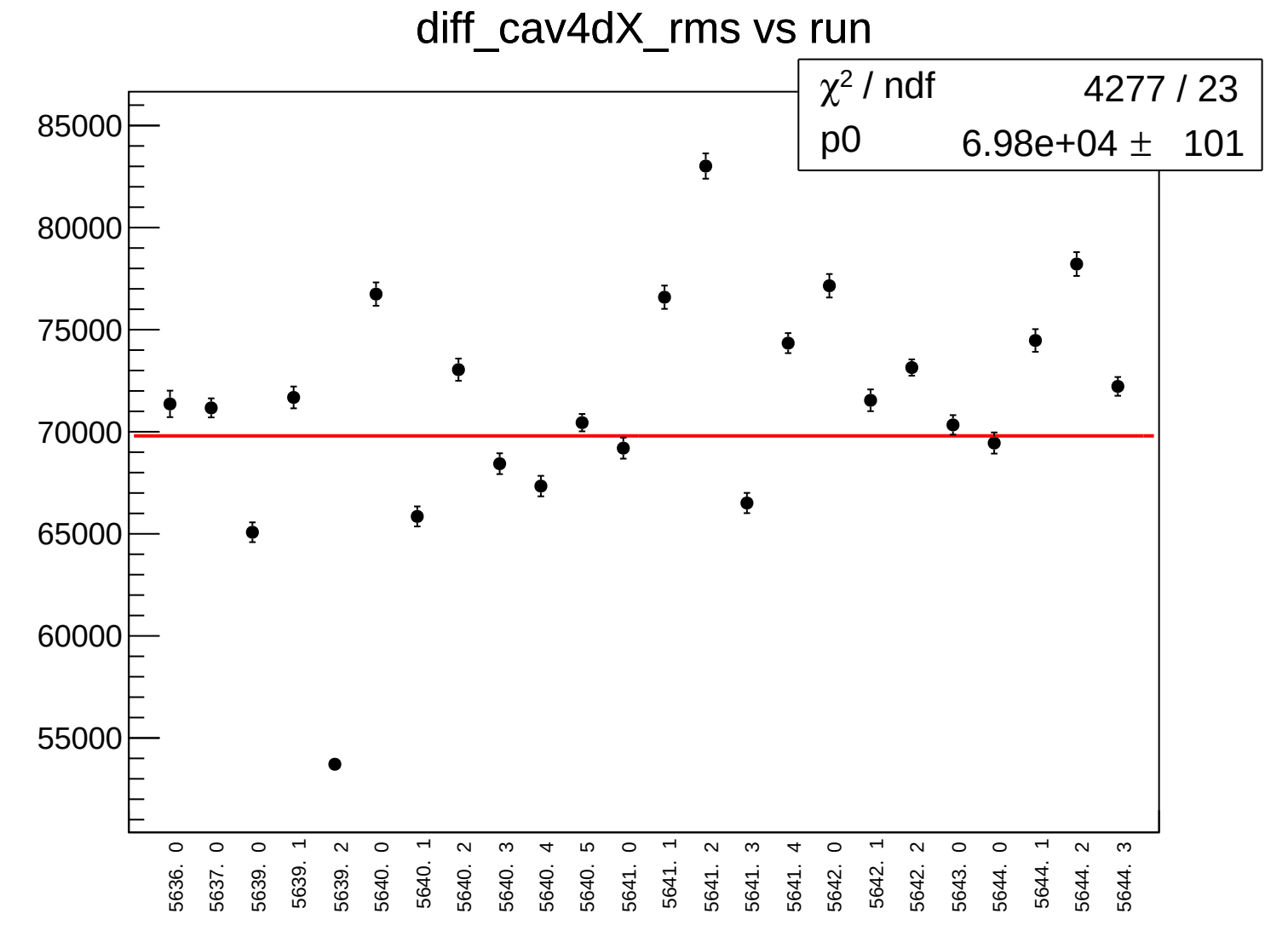

diff_cav4cY_mean vs run
χ² / ndf 24.81 / 23
p0 1828 ± 2794
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 36.31
Std Dev 26.05
1.5
1
0.5
0
−0.5
−1
−1.5

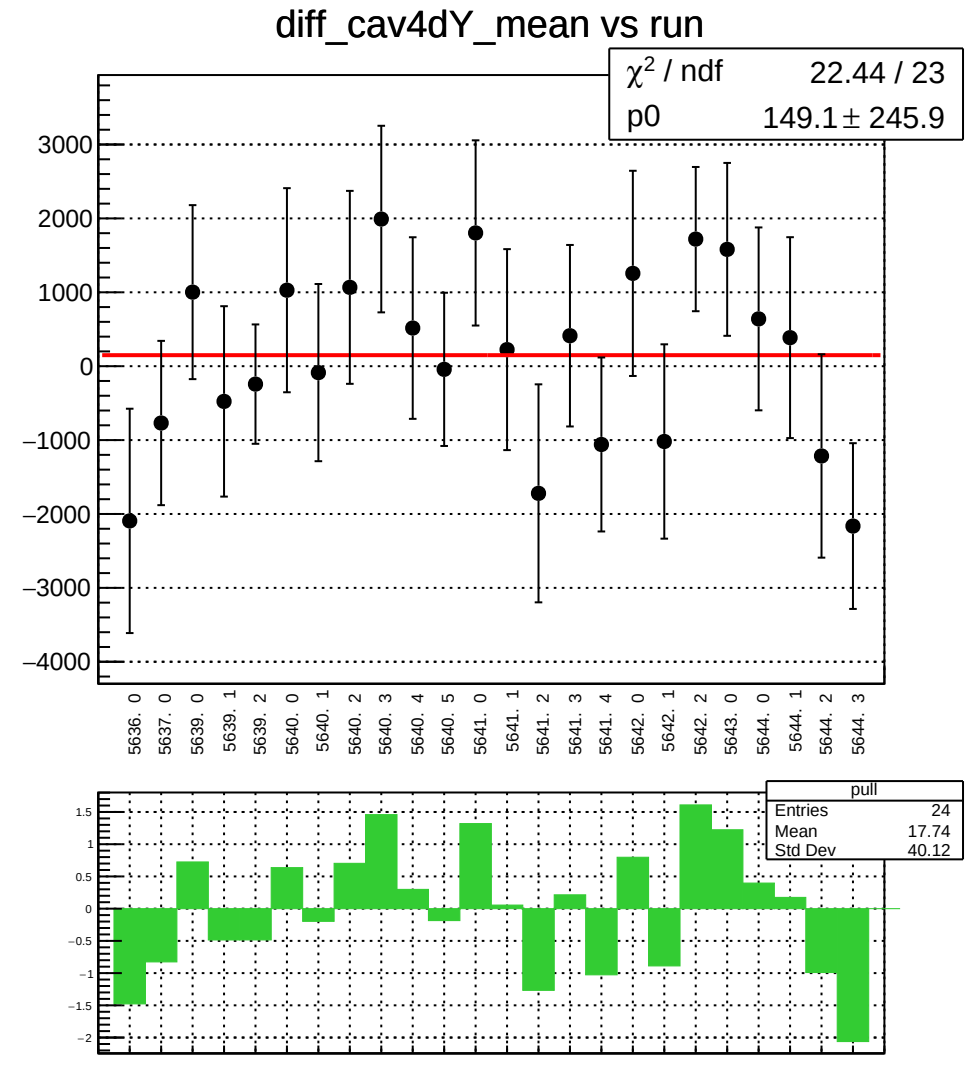

pull1D
Entries 24
Mean −0.01422
Std Dev 1.017
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

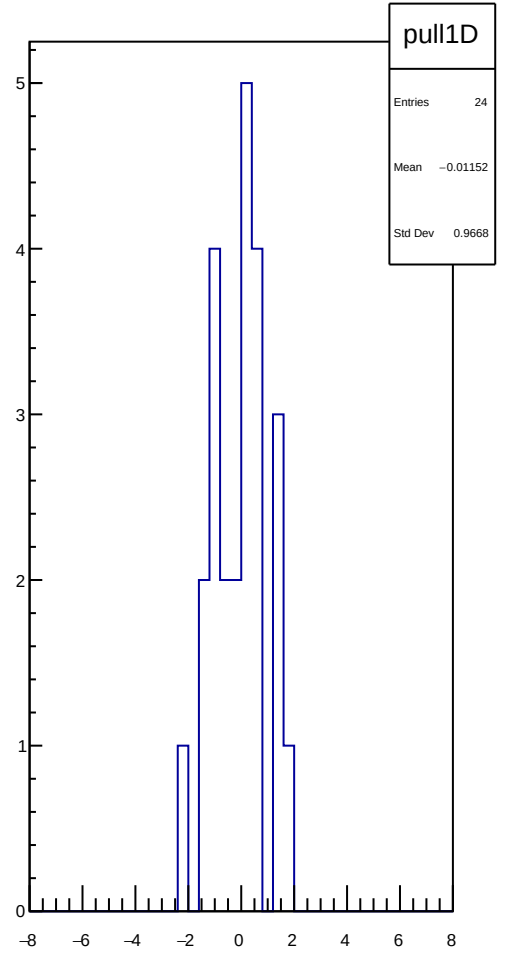

diff_cav4dX_mean vs run
χ² / ndf 23.87 / 23
p0 88.53 ± 142.8
2000
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

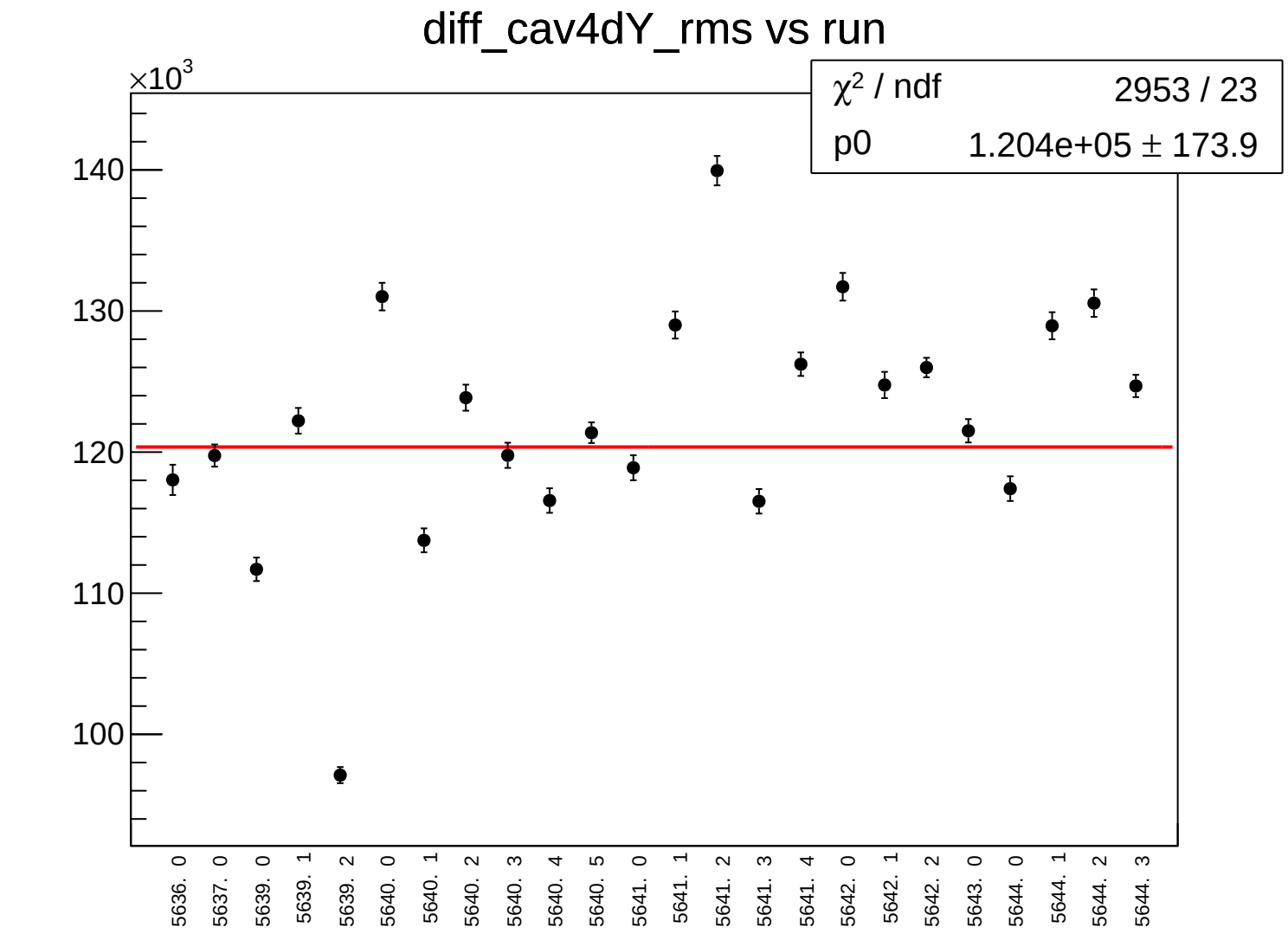

pull
Entries 24
Mean 9.854
Std Dev 36.39
1.5
1
0.5
0
−0.5
−1
−1.5
−2

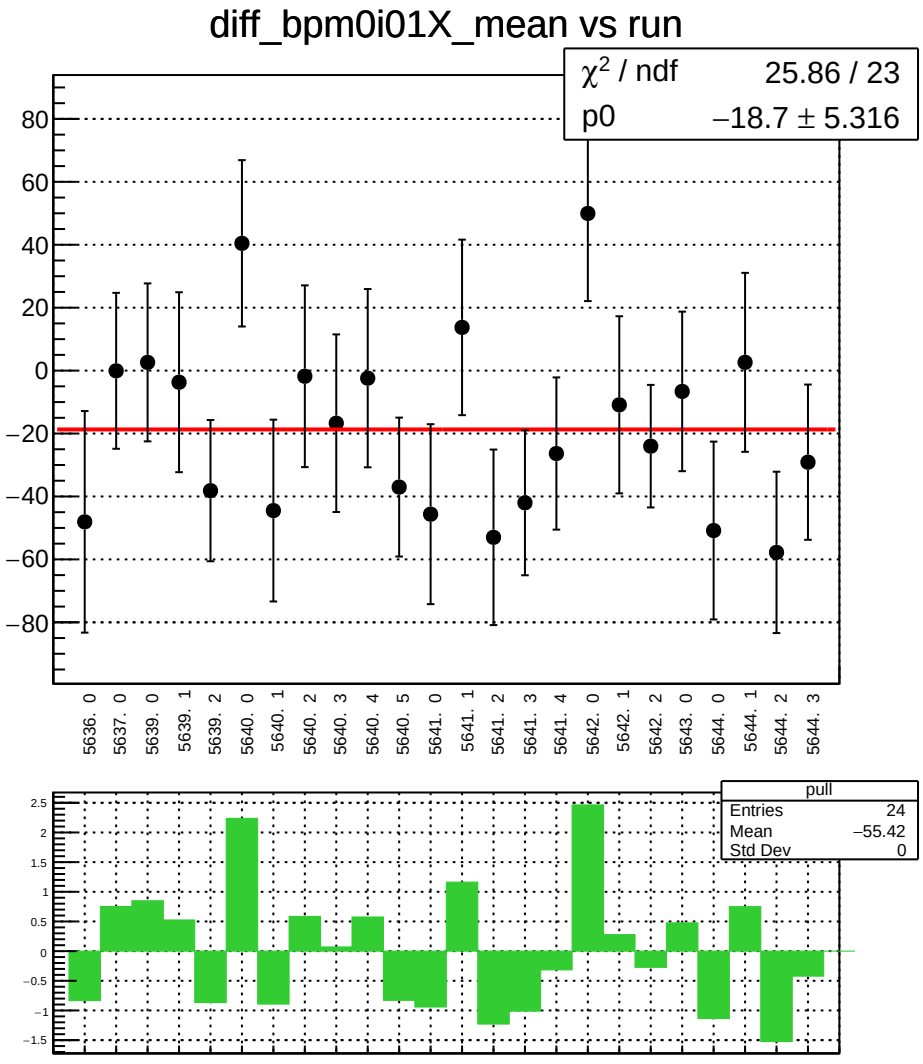

pull1D
Entries 24
Mean −0.01482
Std Dev 0.9971
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

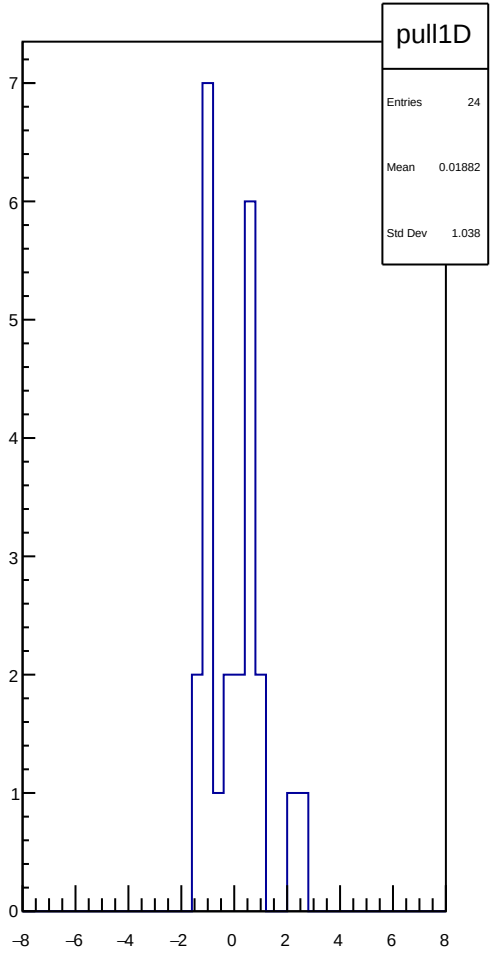

diff_cav4dX_rms vs run
χ² / ndf 4277 / 23
p0 6.98e+04 ± 101
85000
80000
75000
70000
65000
60000
55000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

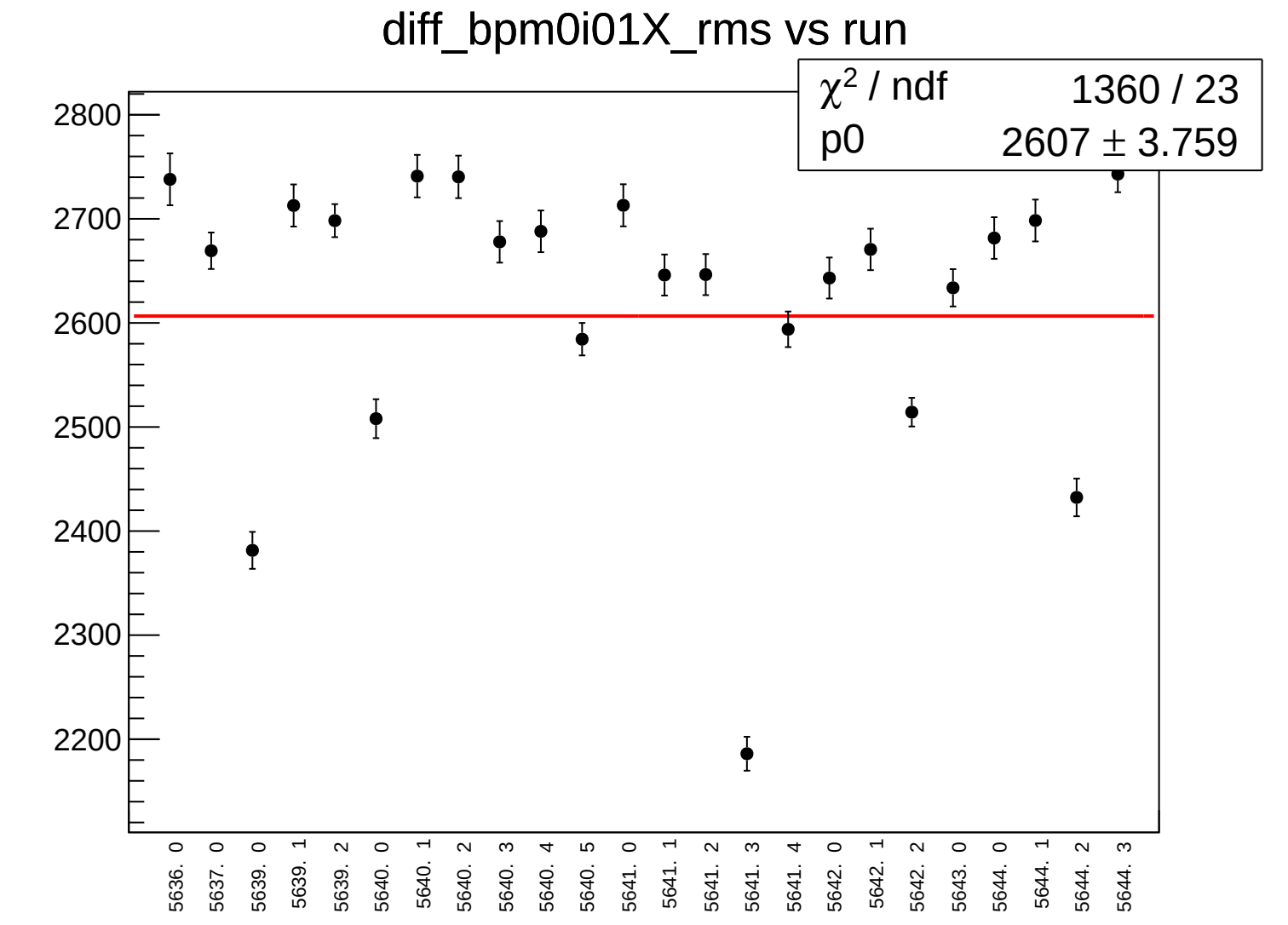

diff_cav4dY_mean vs run
χ² / ndf 22.44 / 23
p0 149.1 ± 245.9
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 17.74
Std Dev 40.12
1.5
1
0.5
0
−0.5
−1
−1.5
−2

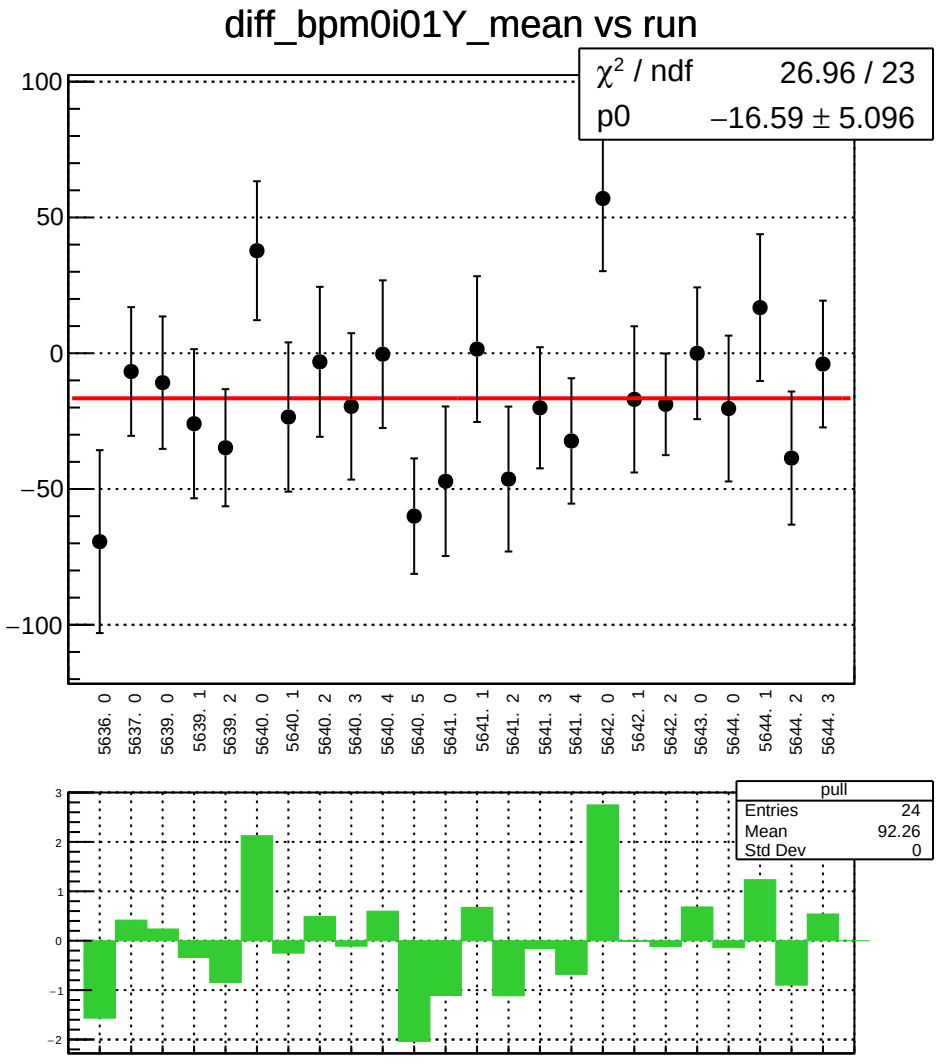

pull1D
Entries 24
Mean −0.01152
Std Dev 0.9668
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

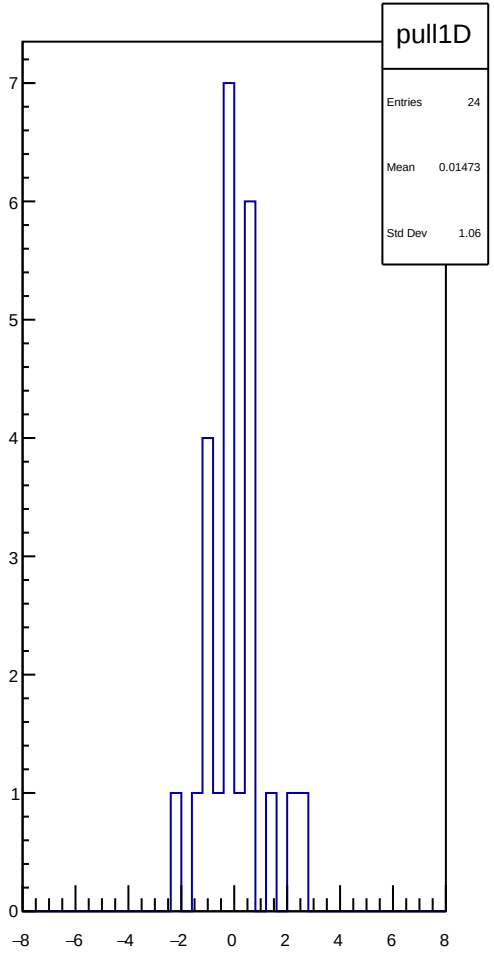

diff_cav4dY_rms vs run
×10^3
χ² / ndf 2953 / 23
p0 1.204e+05 ± 173.9
140
130
120
110
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

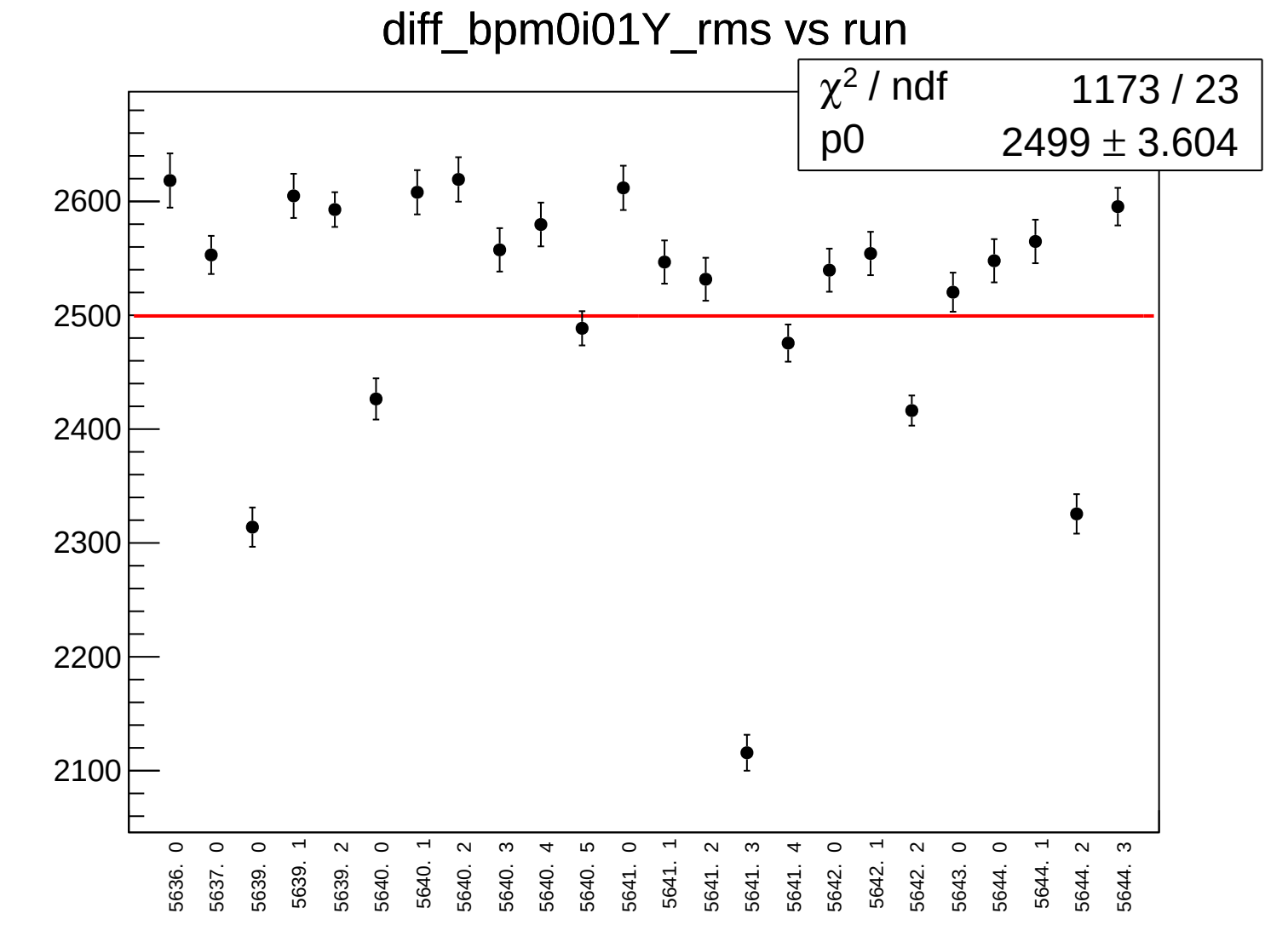

diff_bpm0i01X_mean vs run
χ² / ndf 25.86 / 23
p0 −18.7 ± 5.316
80
60
40
20
0
−20
−40
−60
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −55.42
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

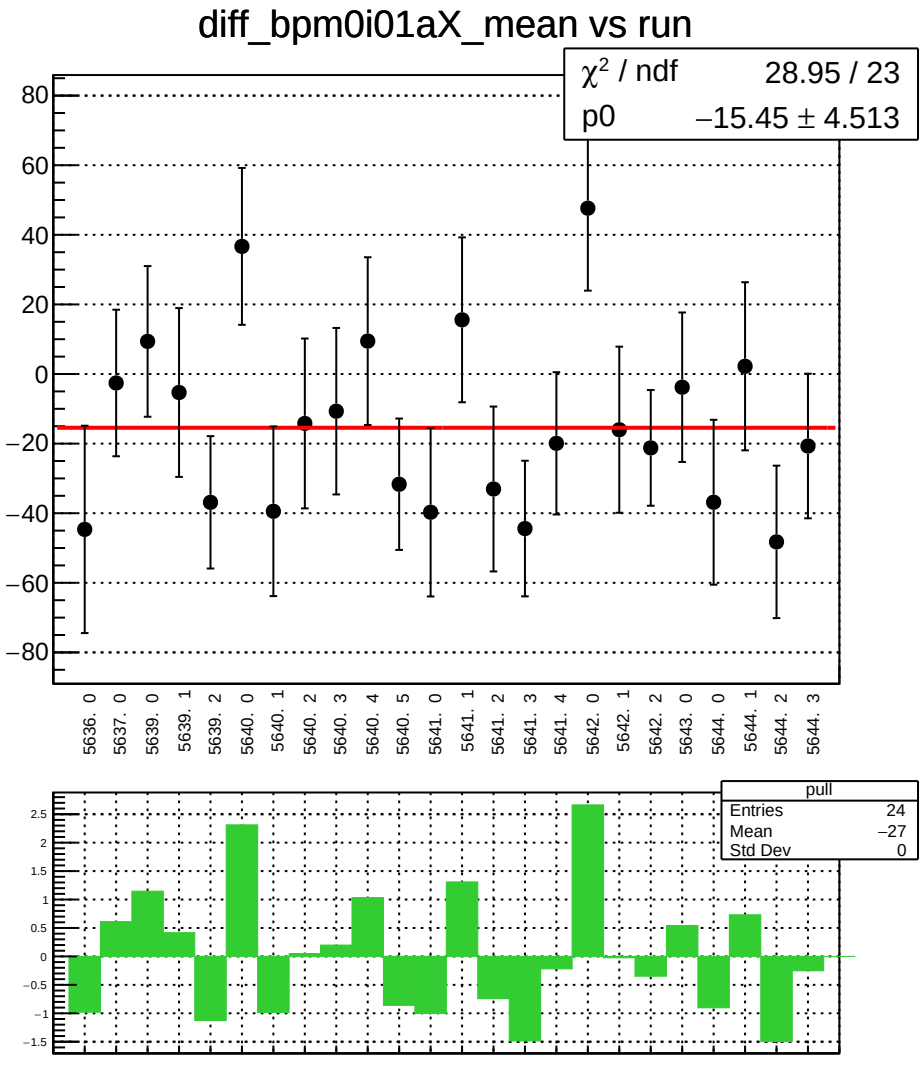

pull1D
Entries 24
Mean 0.01882
Std Dev 1.038
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

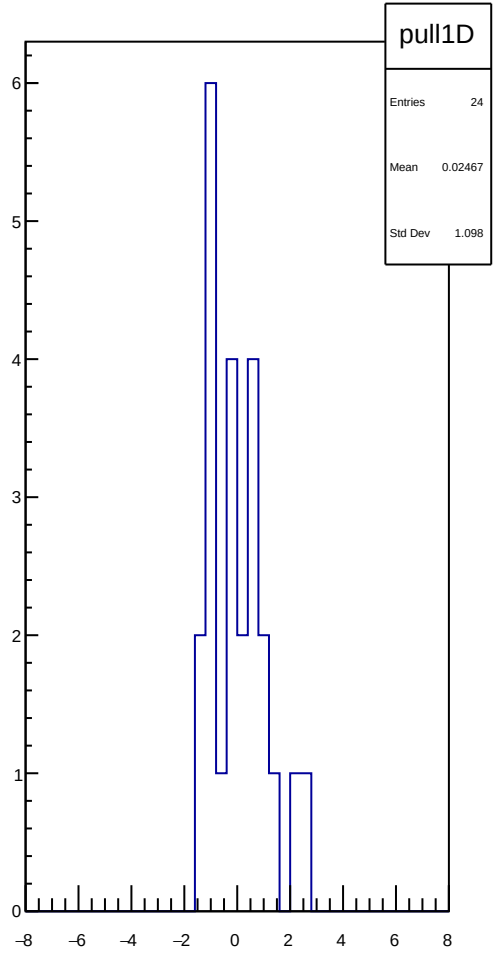

diff_bpm0i01X_rms vs run
χ² / ndf 1360 / 23
p0 2607 ± 3.759
2800
2700
2600
2500
2400
2300
2200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

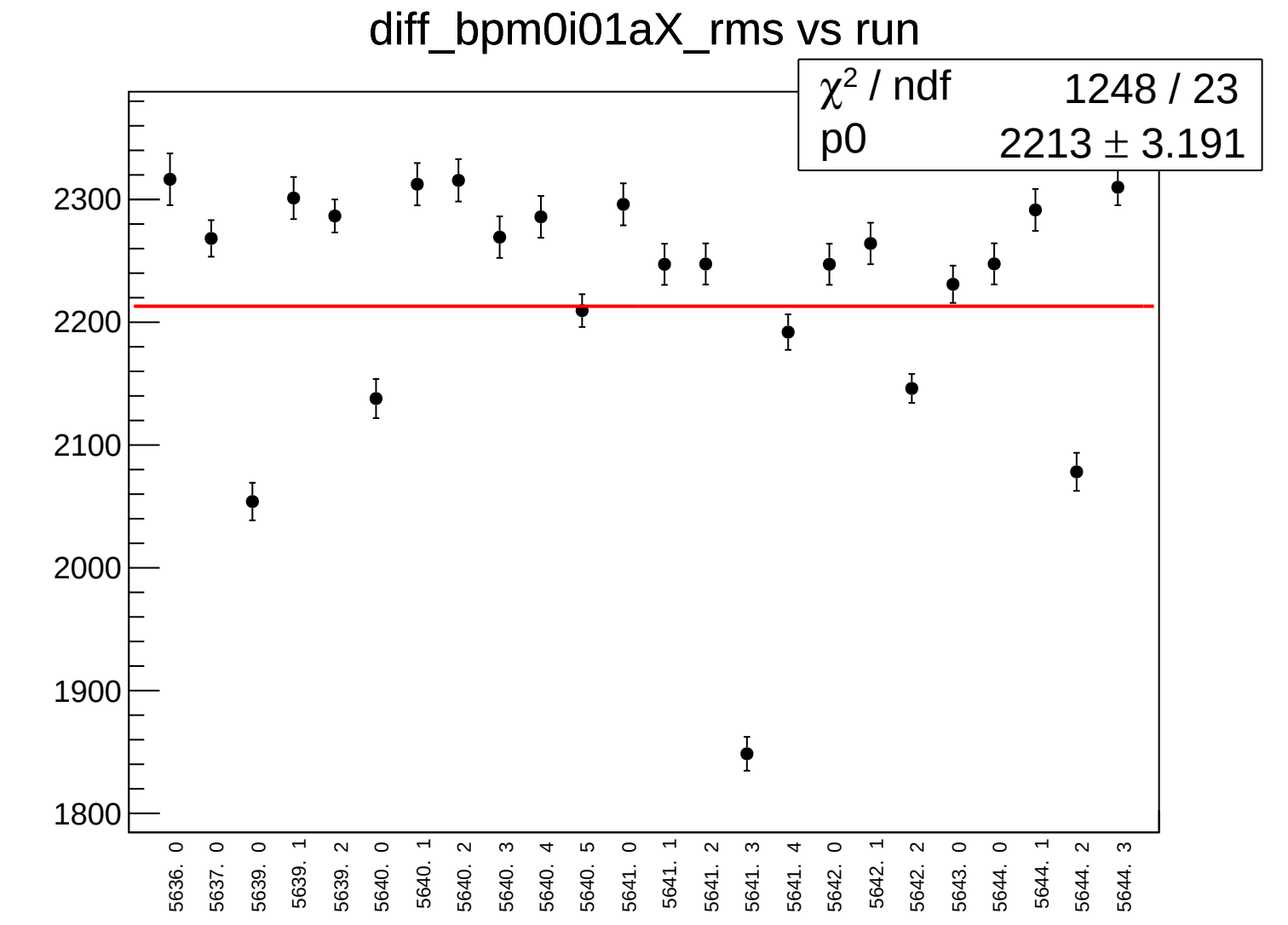

diff_bpm0i01Y_mean vs run
χ² / ndf 26.96 / 23
p0 −16.59 ± 5.096
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 92.26
Std Dev 0
3
2
1
0
−1
−2

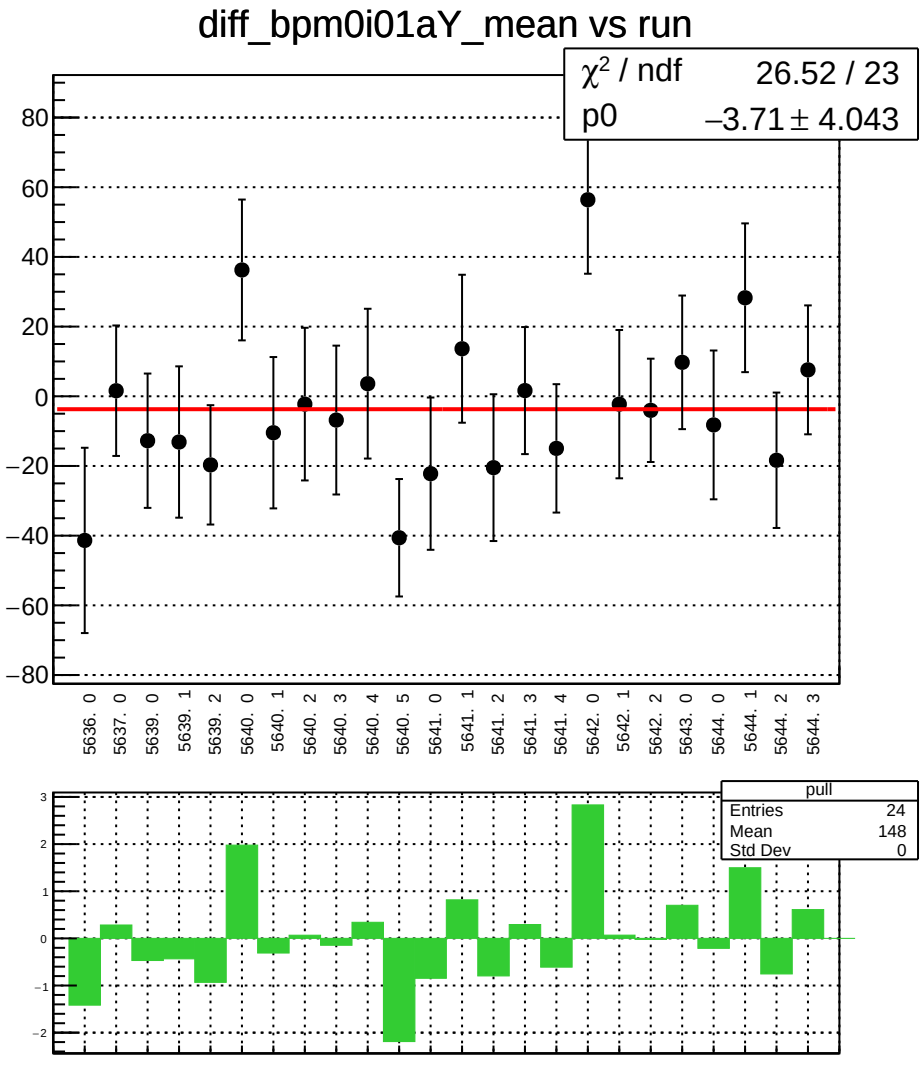

pull1D
Entries 24
Mean 0.01473
Std Dev 1.06
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

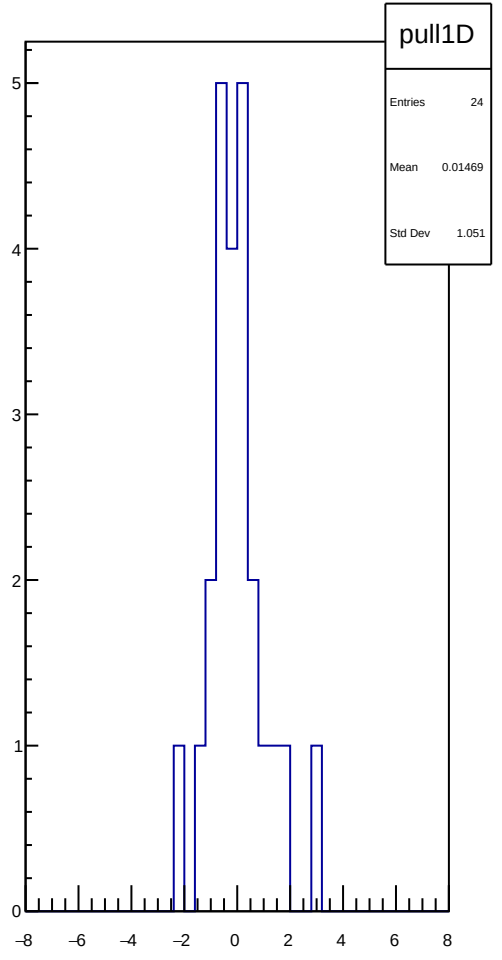

diff_bpm0i01Y_rms vs run
χ² / ndf 1173 / 23
p0 2499 ± 3.604
2600
2500
2400
2300
2200
2100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

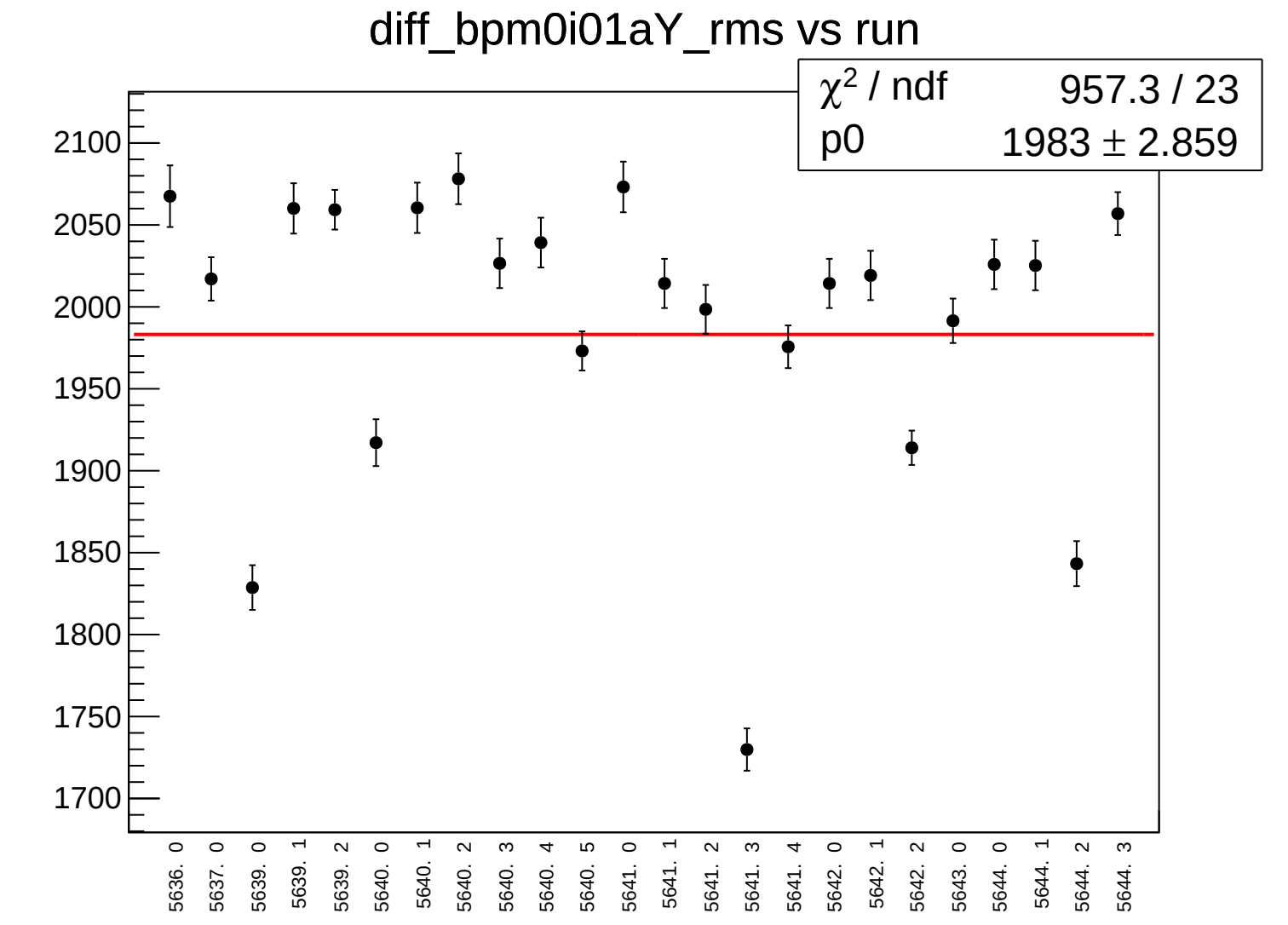

diff_bpm0i01aX_mean vs run
χ² / ndf 28.95 / 23
p0 −15.45 ± 4.513
80
60
40
20
0
−20
−40
−60
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −27
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

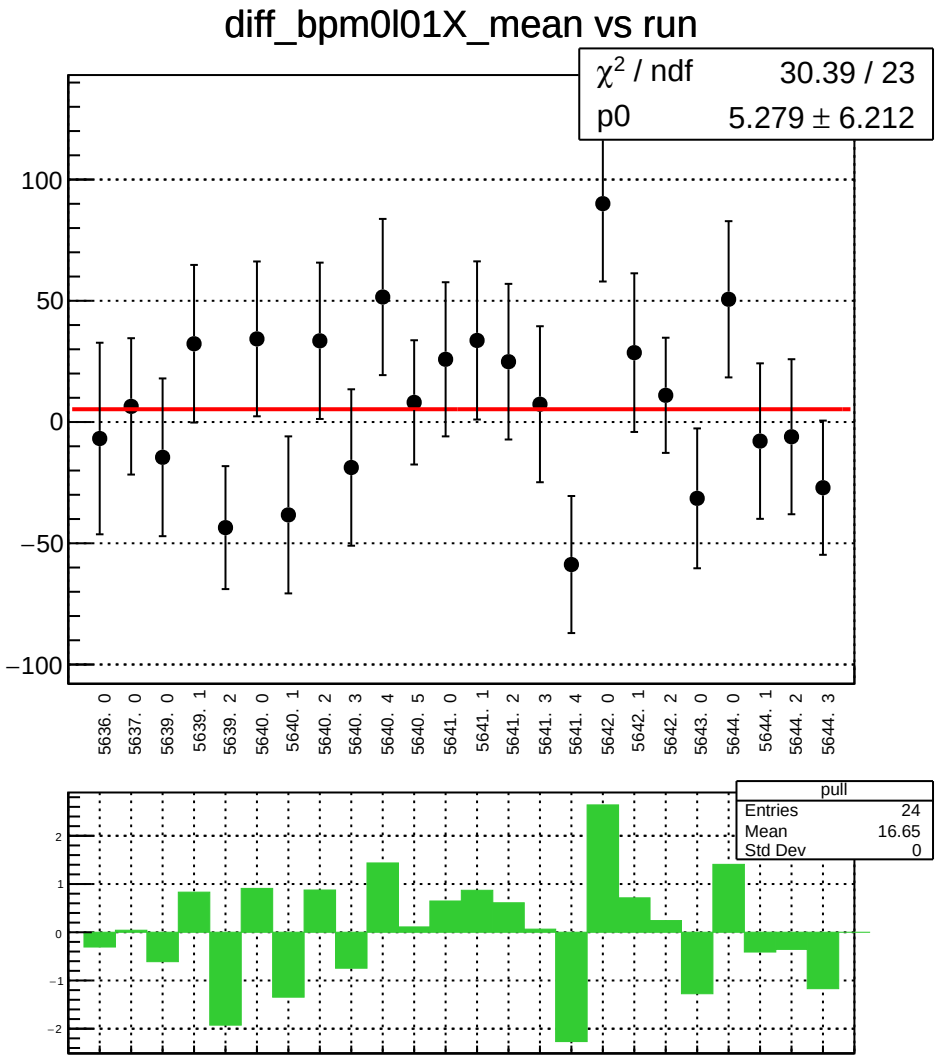

pull1D
Entries 24
Mean 0.02467
Std Dev 1.098
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

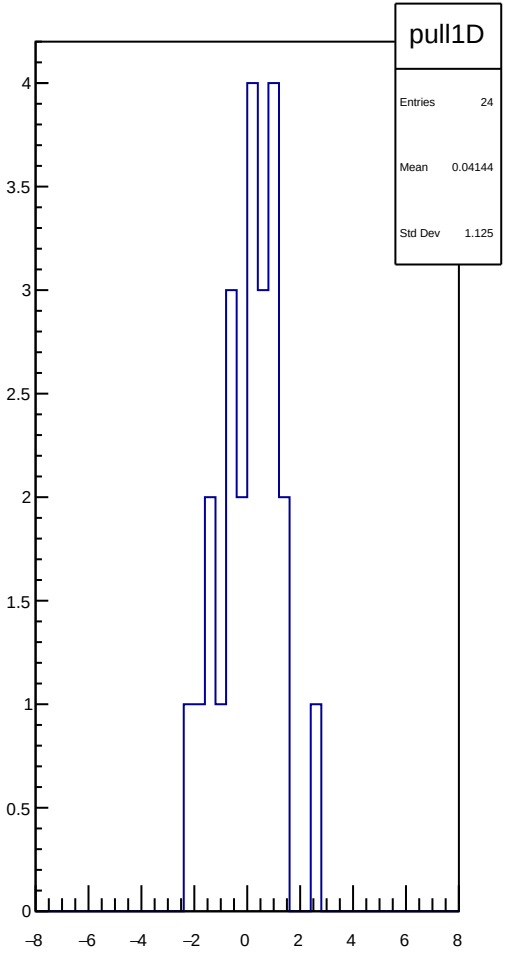

diff_bpm0i01aX_rms vs run
χ² / ndf 1248 / 23
p0 2213 ± 3.191
2300
2200
2100
2000
1900
1800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

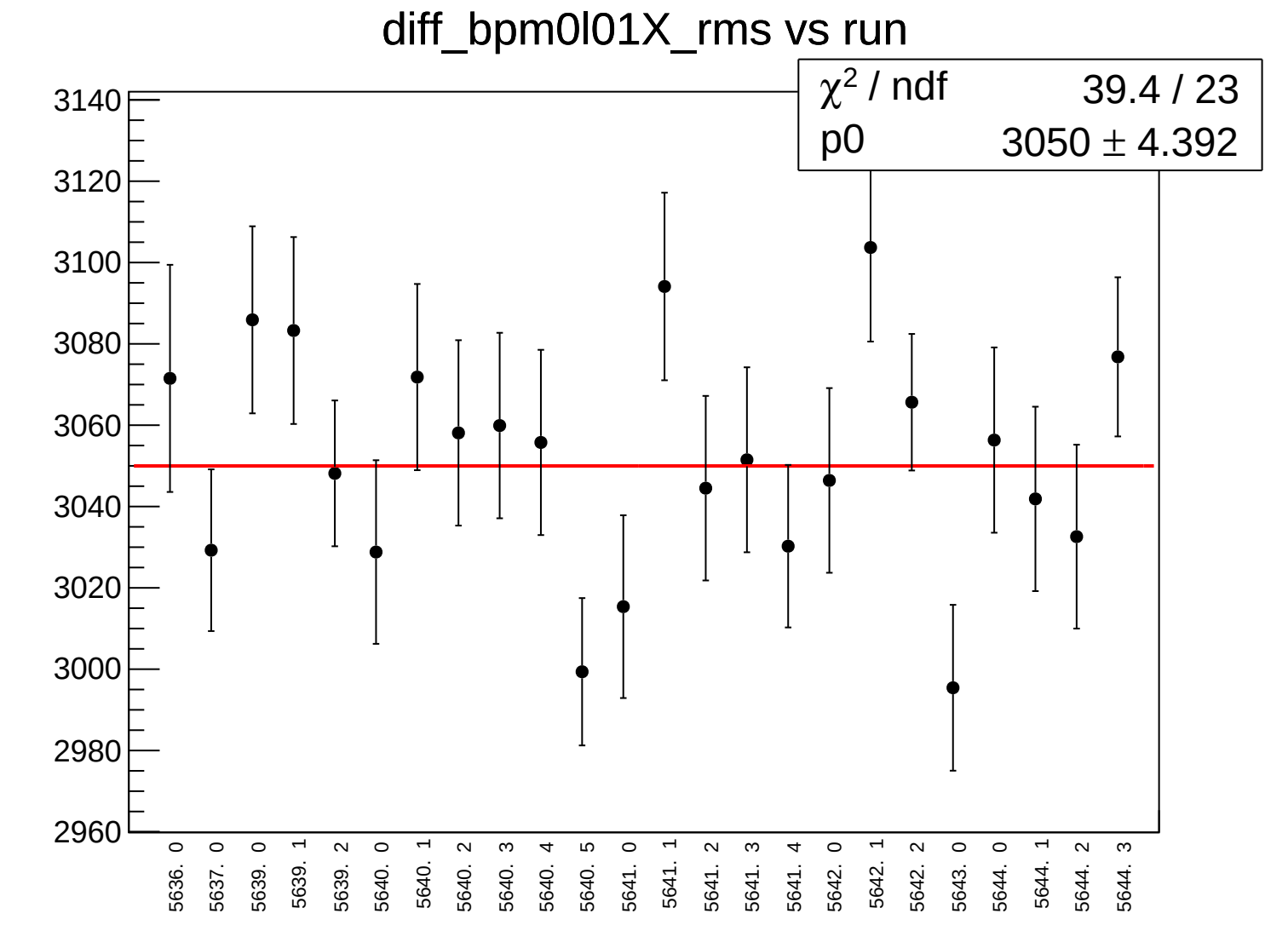

diff_bpm0i01aY_mean vs run
χ² / ndf 26.52 / 23
p0 −3.71 ± 4.043
80
60
40
20
0
−20
−40
−60
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 148
Std Dev 0
3
2
1
0
−1
−2

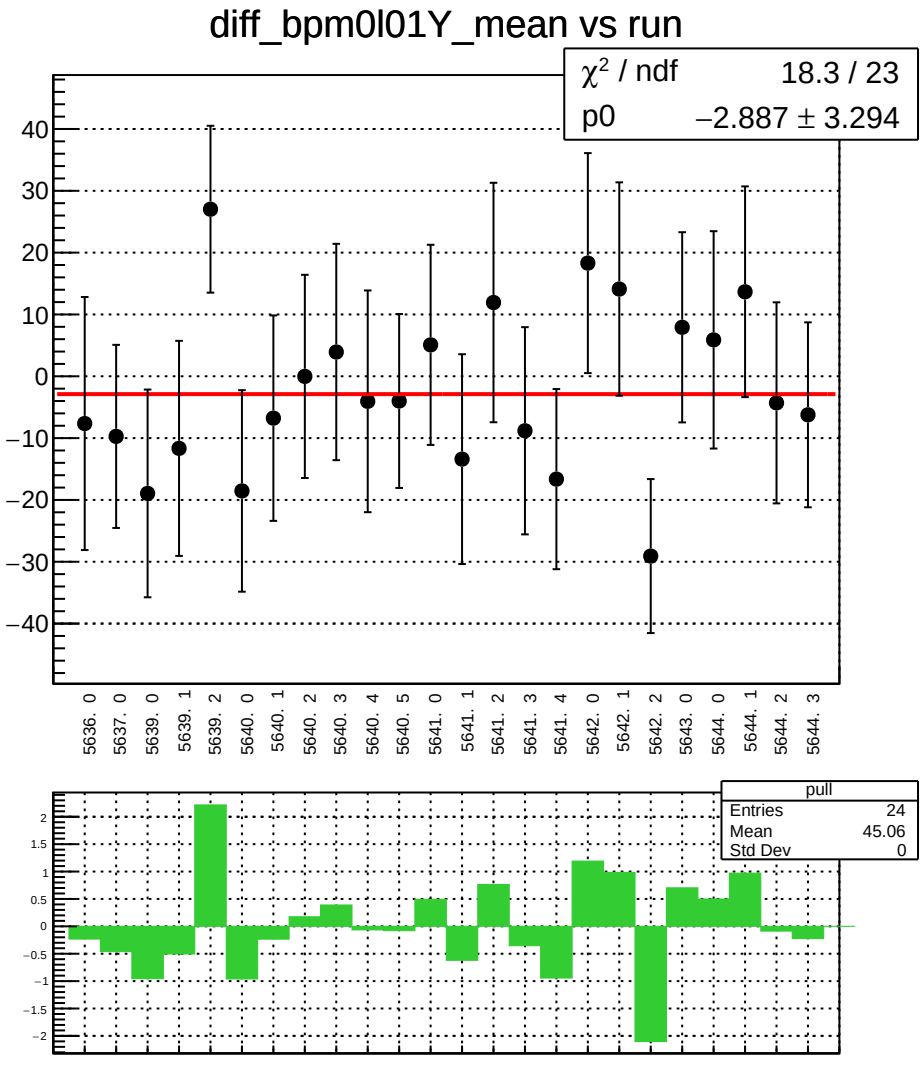

pull1D
Entries 24
Mean 0.01469
Std Dev 1.051
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

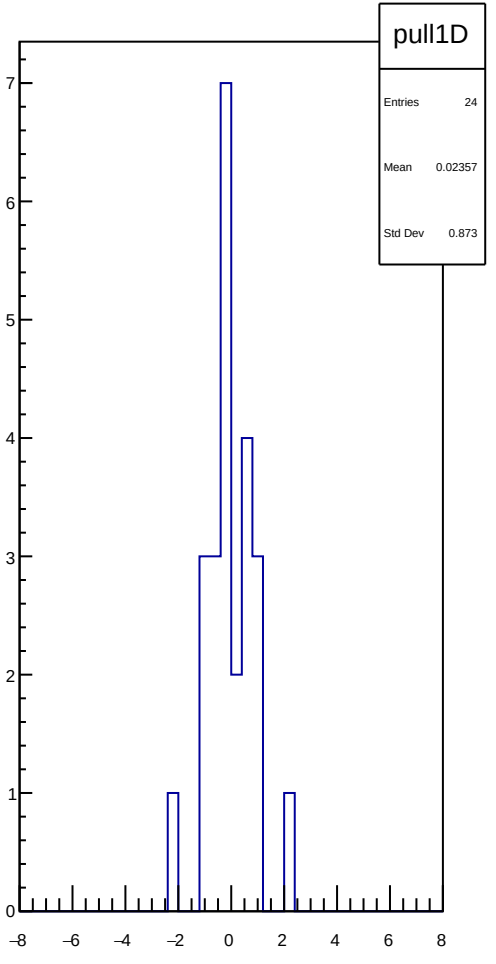

diff_bpm0i01aY_rms vs run
χ² / ndf 957.3 / 23
p0 1983 ± 2.859
2100
2050
2000
1950
1900
1850
1800
1750
1700
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

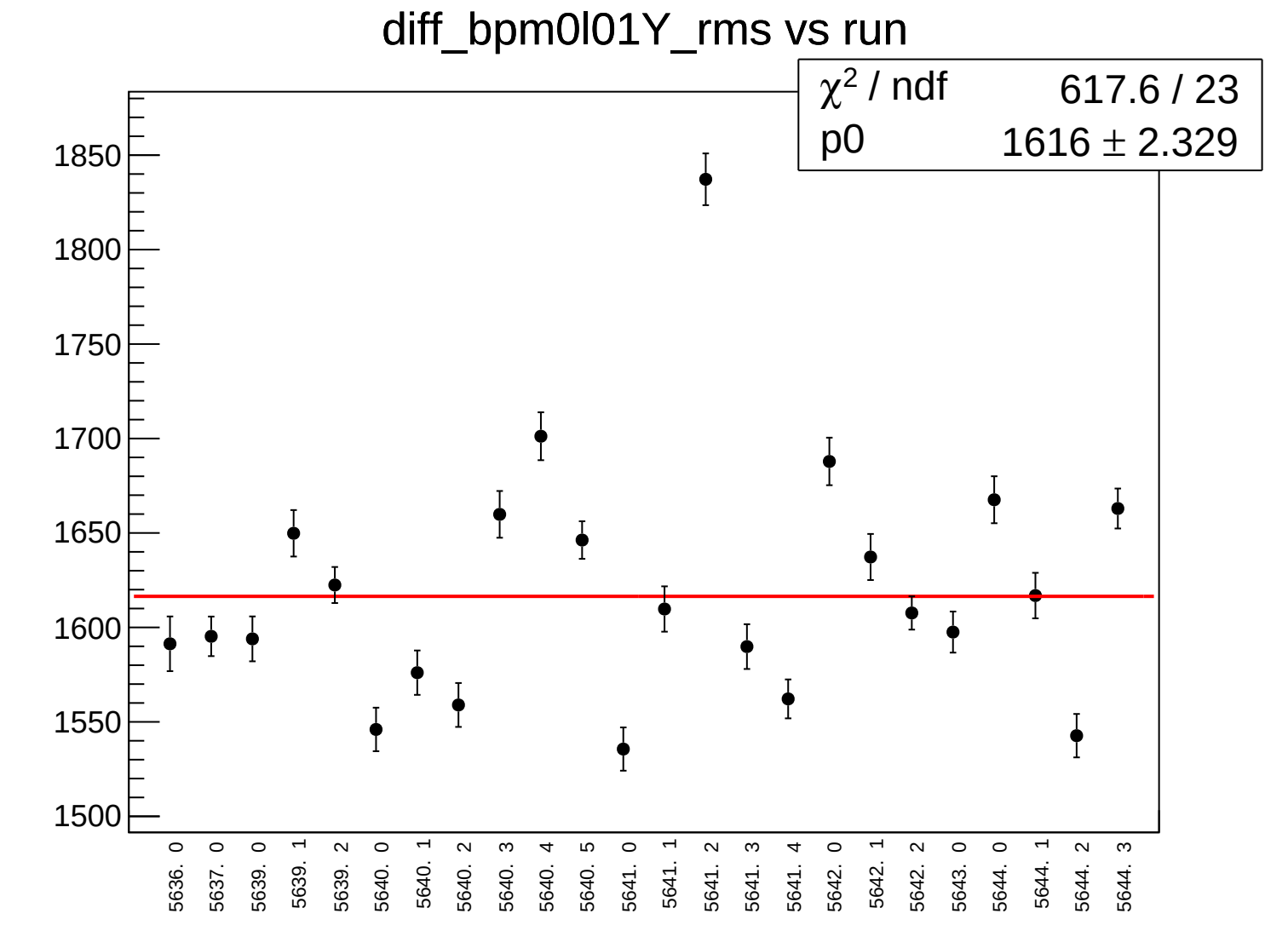

diff_bpm0l01X_mean vs run
χ² / ndf 30.39 / 23
p0 5.279 ± 6.212
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 16.65
Std Dev 0
2
1
0
−1
−2

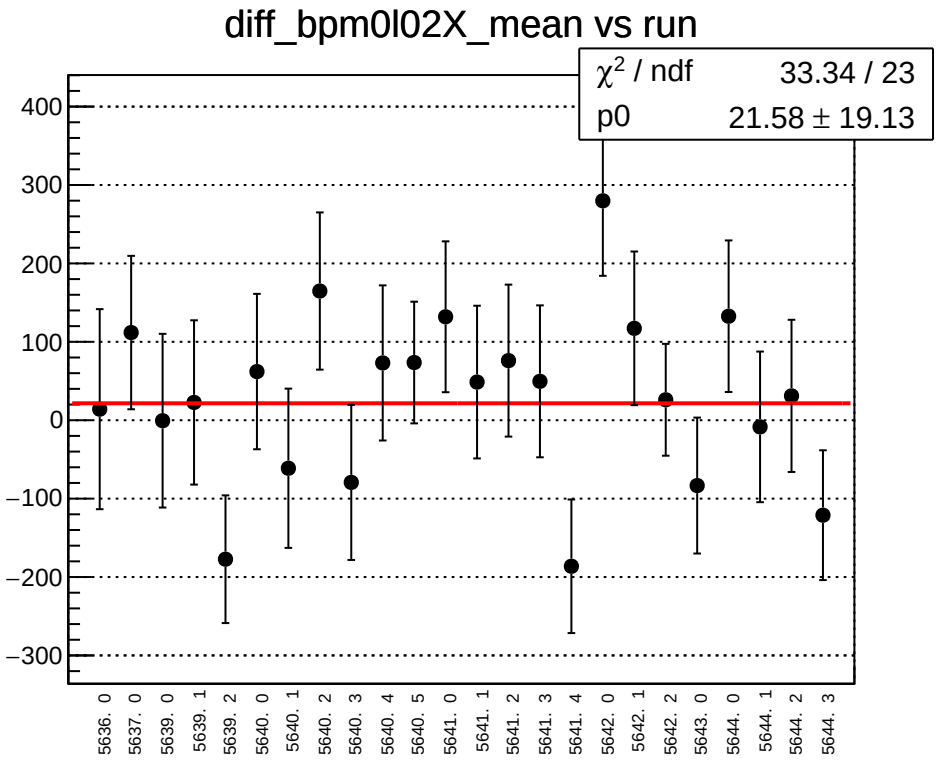

pull1D
Entries 24
Mean 0.04144
Std Dev 1.125
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

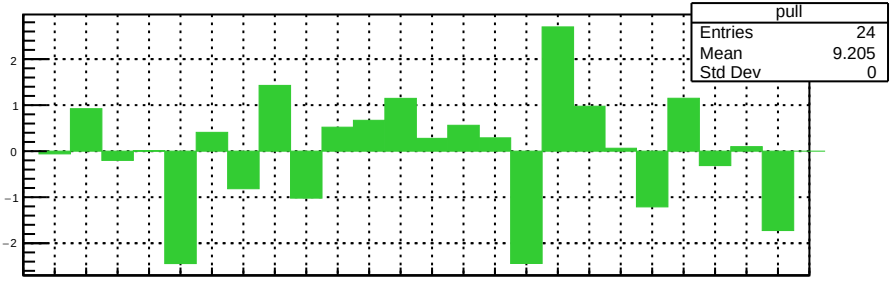

diff_bpm0l01X_rms vs run
χ² / ndf 39.4 / 23
p0 3050 ± 4.392
3140
3120
3100
3080
3060
3040
3020
3000
2980
2960
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

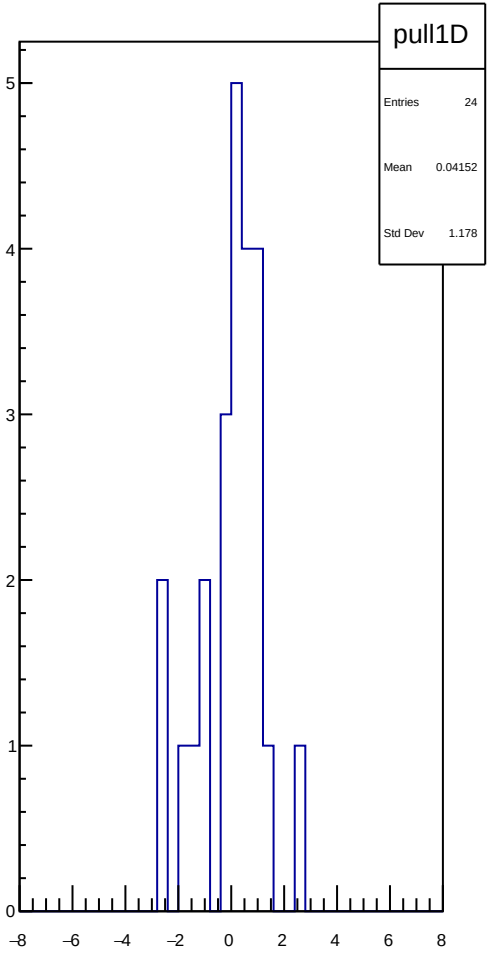

diff_bpm0l01Y_mean vs run
χ² / ndf 18.3 / 23
p0 −2.887 ± 3.294
40
30
20
10
0
−10
−20
−30
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 45.06
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

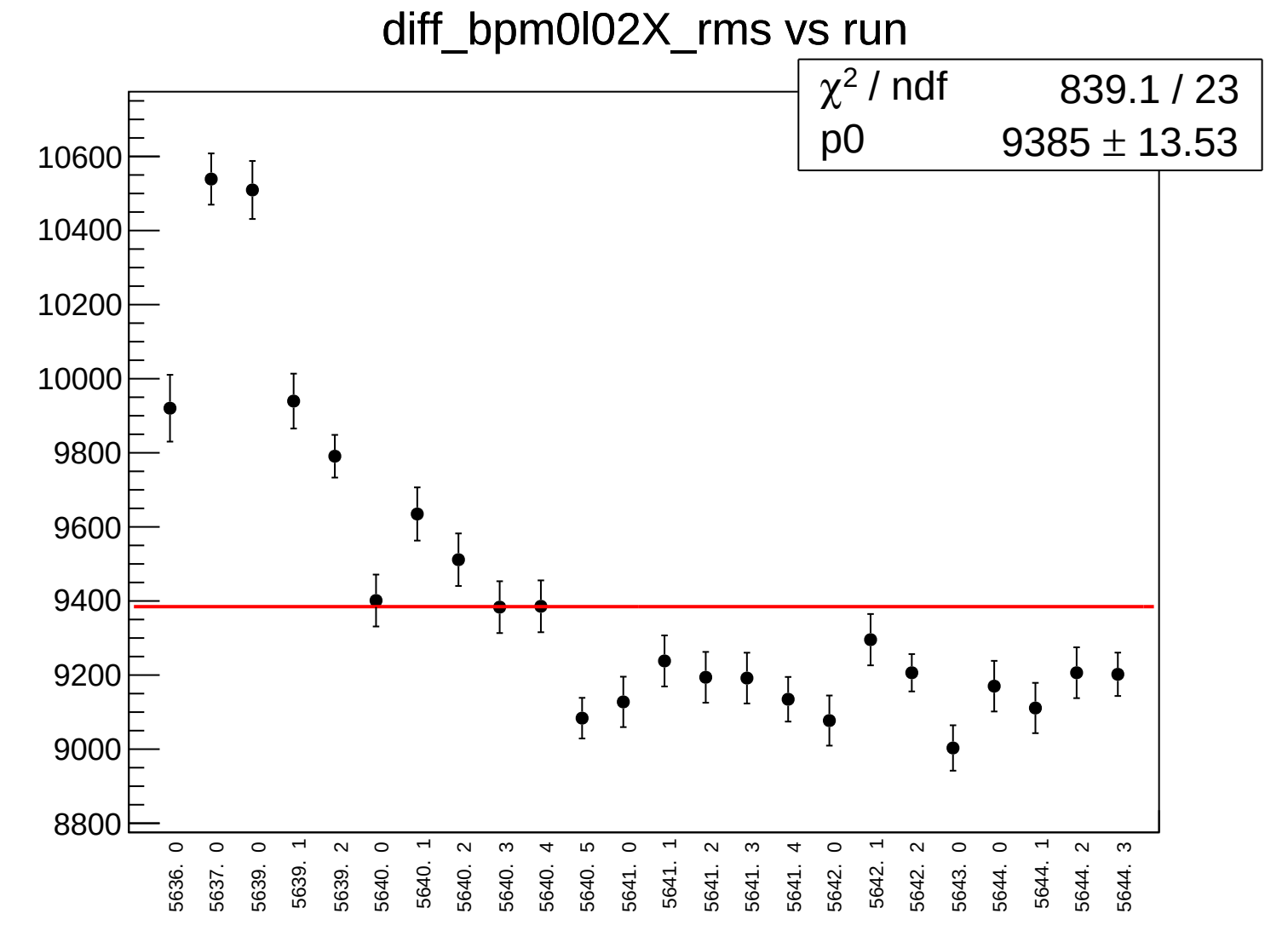

pull1D
Entries 24
Mean 0.02357
Std Dev 0.873
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

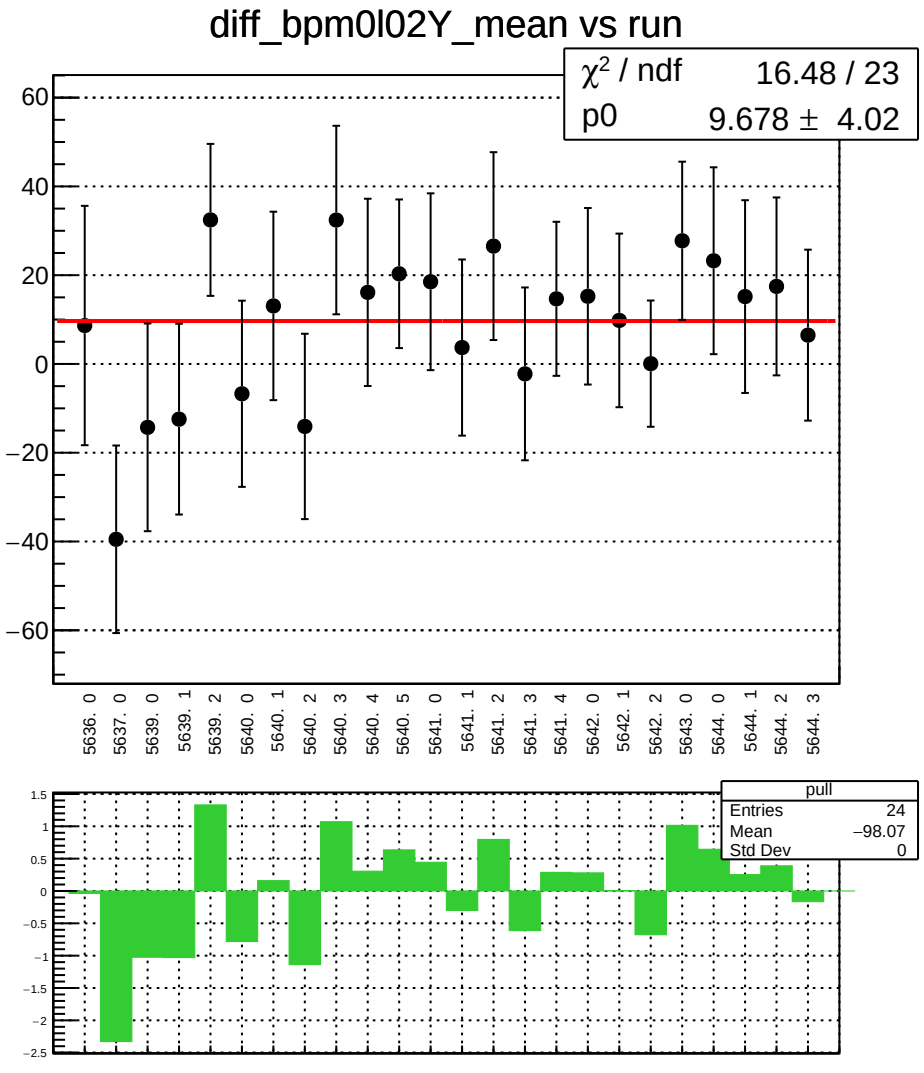

diff_bpm0l01Y_rms vs run
χ² / ndf 617.6 / 23
p0 1616 ± 2.329
1850
1800
1750
1700
1650
1600
1550
1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

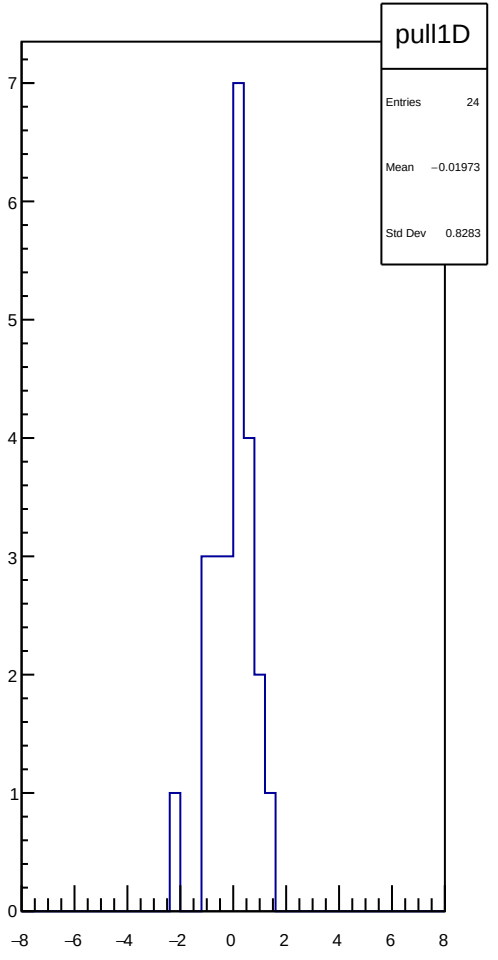

diff_bpm0l02X_mean vs run
χ² / ndf 33.34 / 23
p0 21.58 ± 19.13
400
300
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

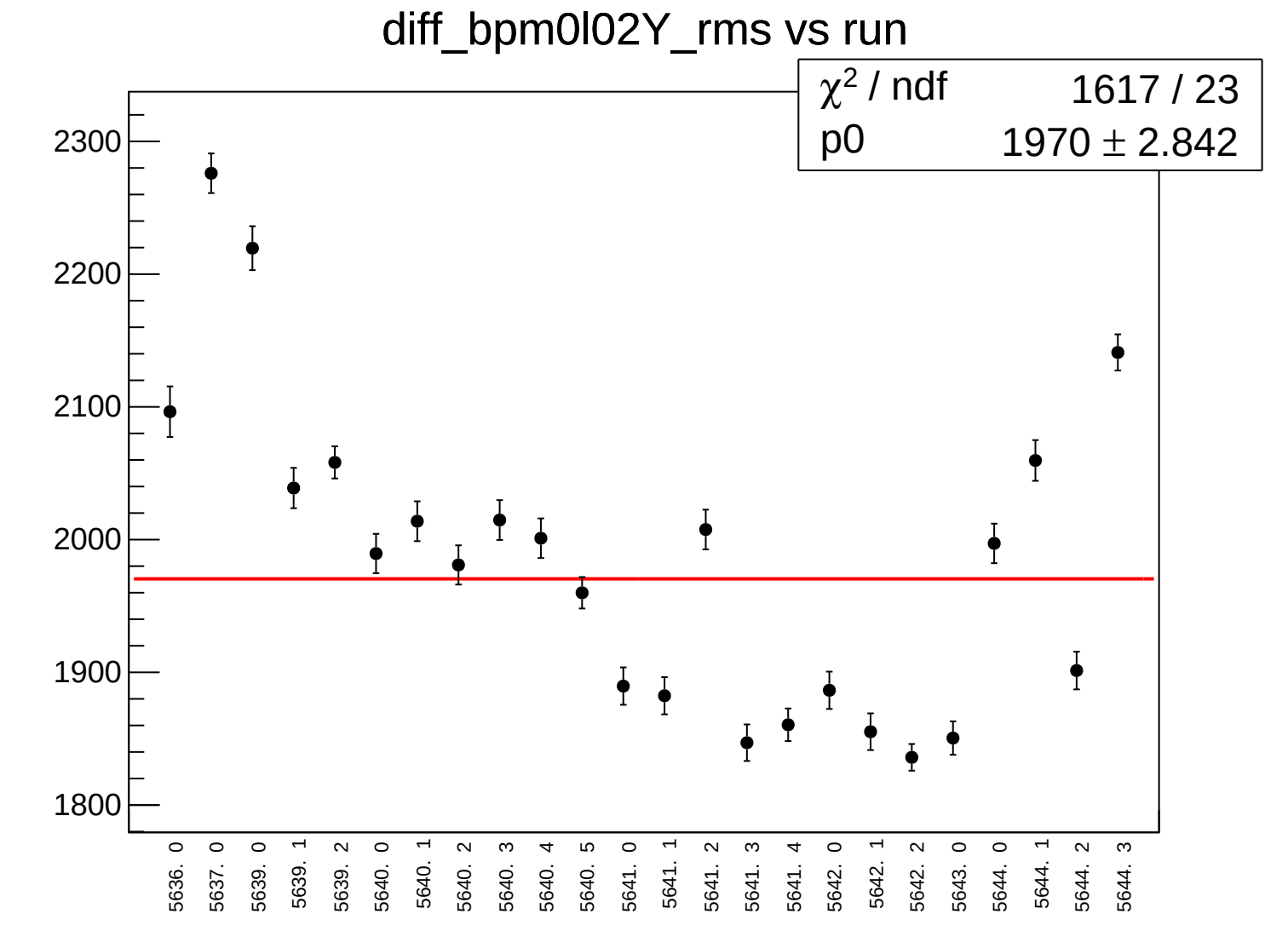

pull
Entries 24
Mean 9.205
Std Dev 0
2
1
0
−1
−2

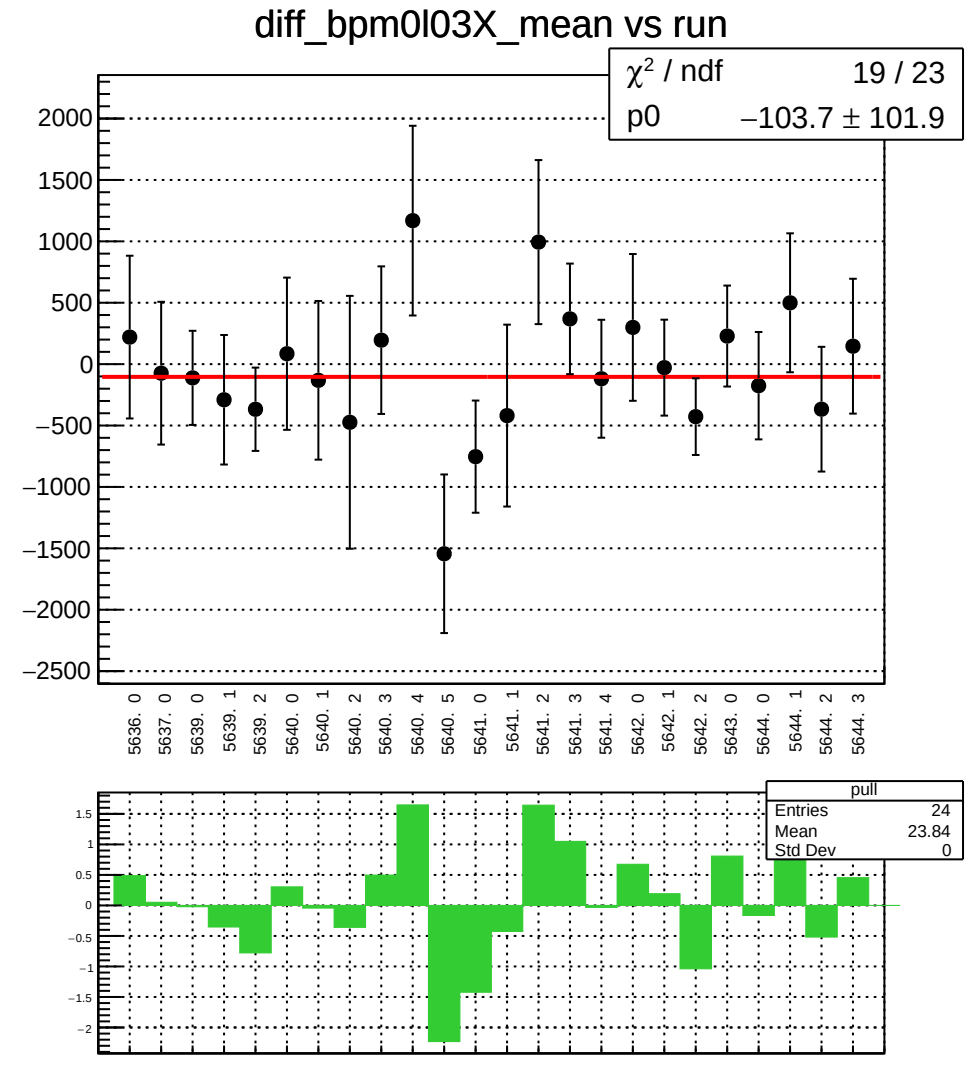

pull1D
Entries 24
Mean 0.04152
Std Dev 1.178
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

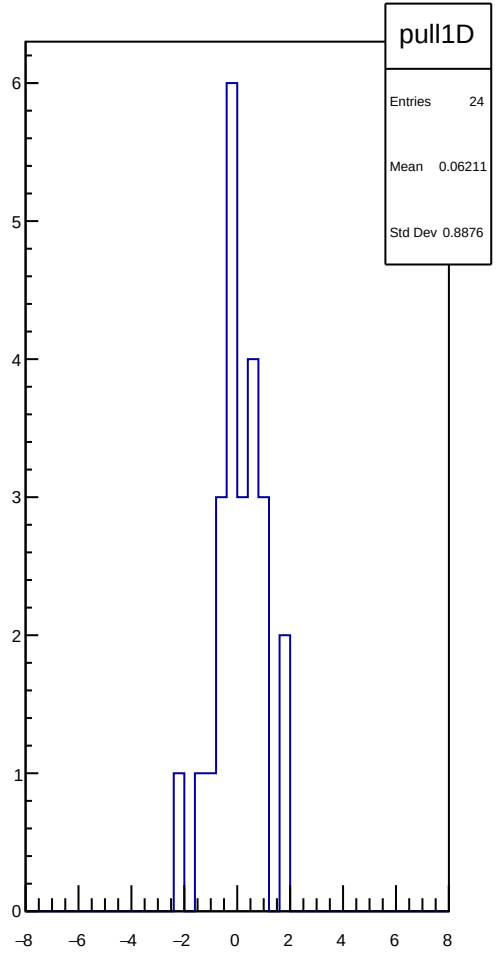

diff_bpm0l02X_rms vs run
χ² / ndf 839.1 / 23
p0 9385 ± 13.53
10600
10400
10200
10000
9800
9600
9400
9200
9000
8800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

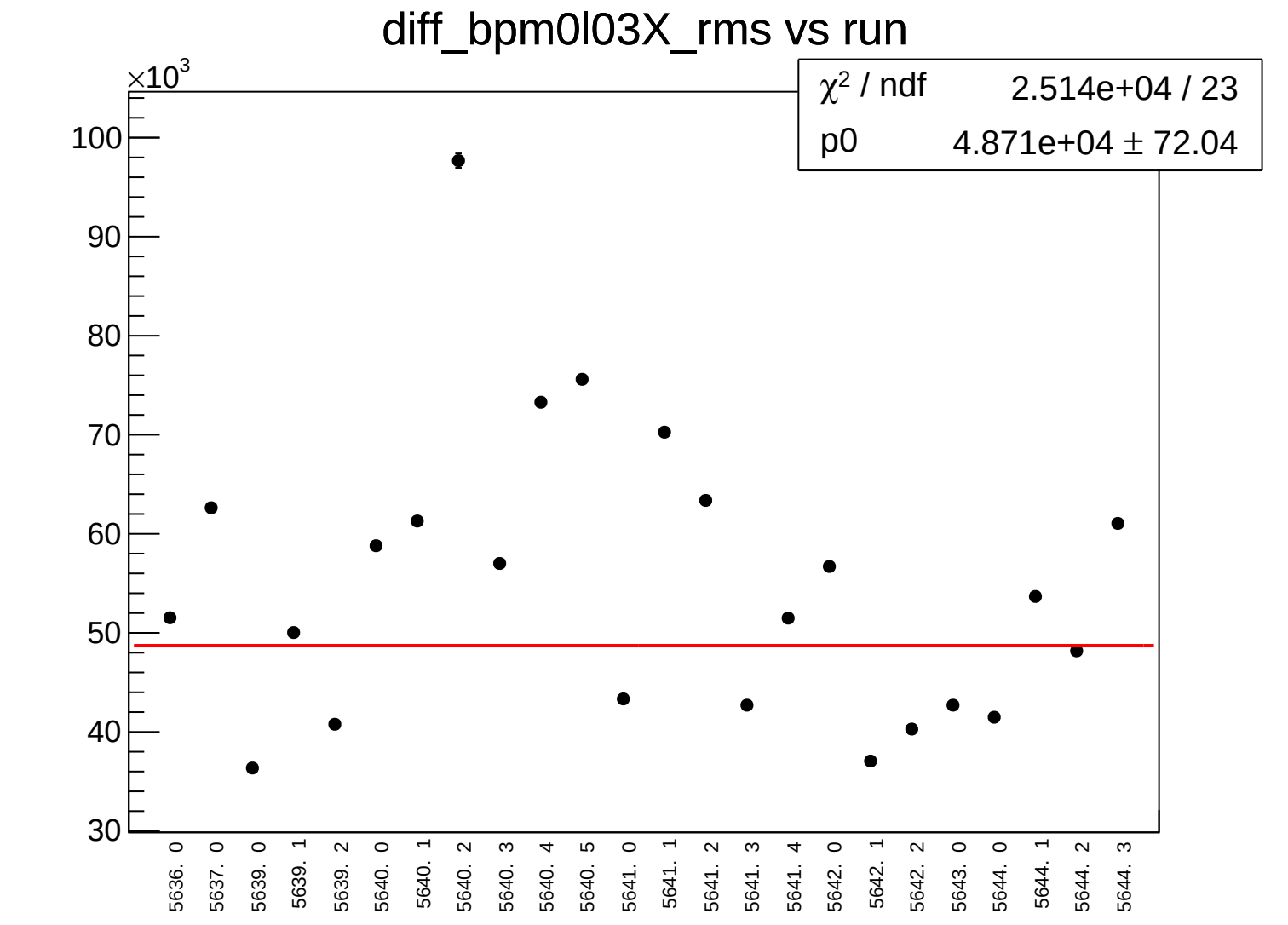

diff_bpm0l02Y_mean vs run
χ² / ndf 16.48 / 23
p0 9.678 ± 4.02
60
40
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −98.07
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

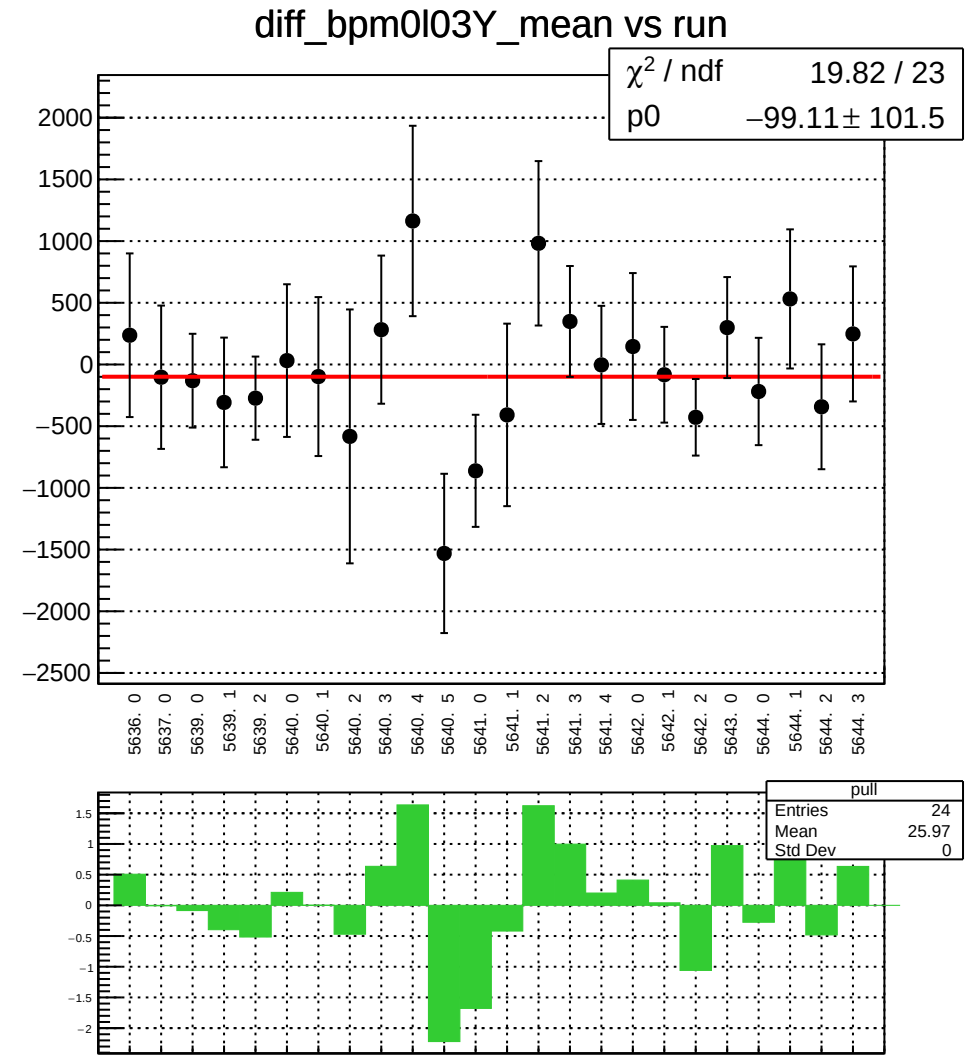

pull1D
Entries 24
Mean −0.01973
Std Dev 0.8283
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

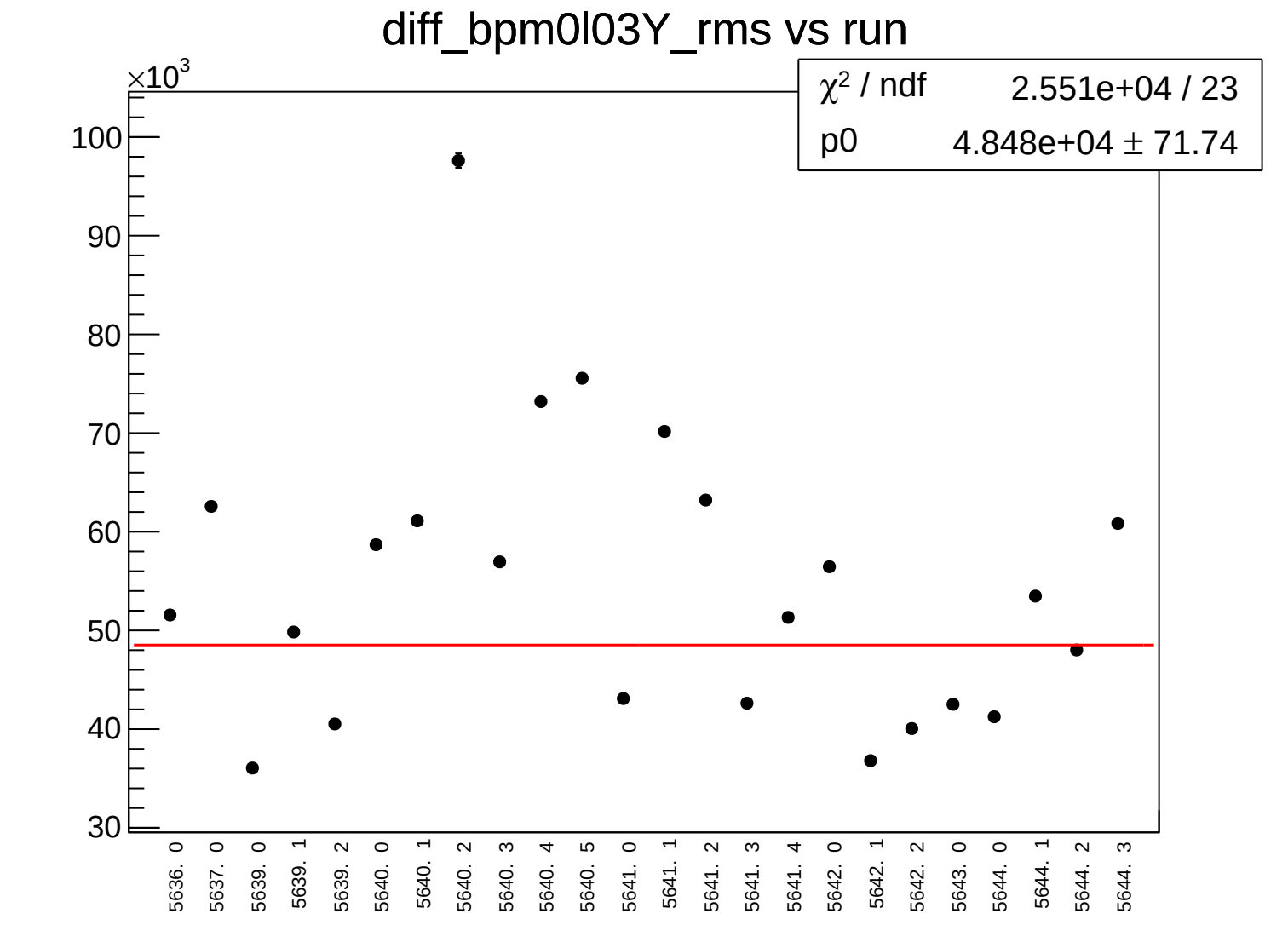

diff_bpm0l02Y_rms vs run
χ² / ndf 1617 / 23
p0 1970 ± 2.842
2300
2200
2100
2000
1900
1800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

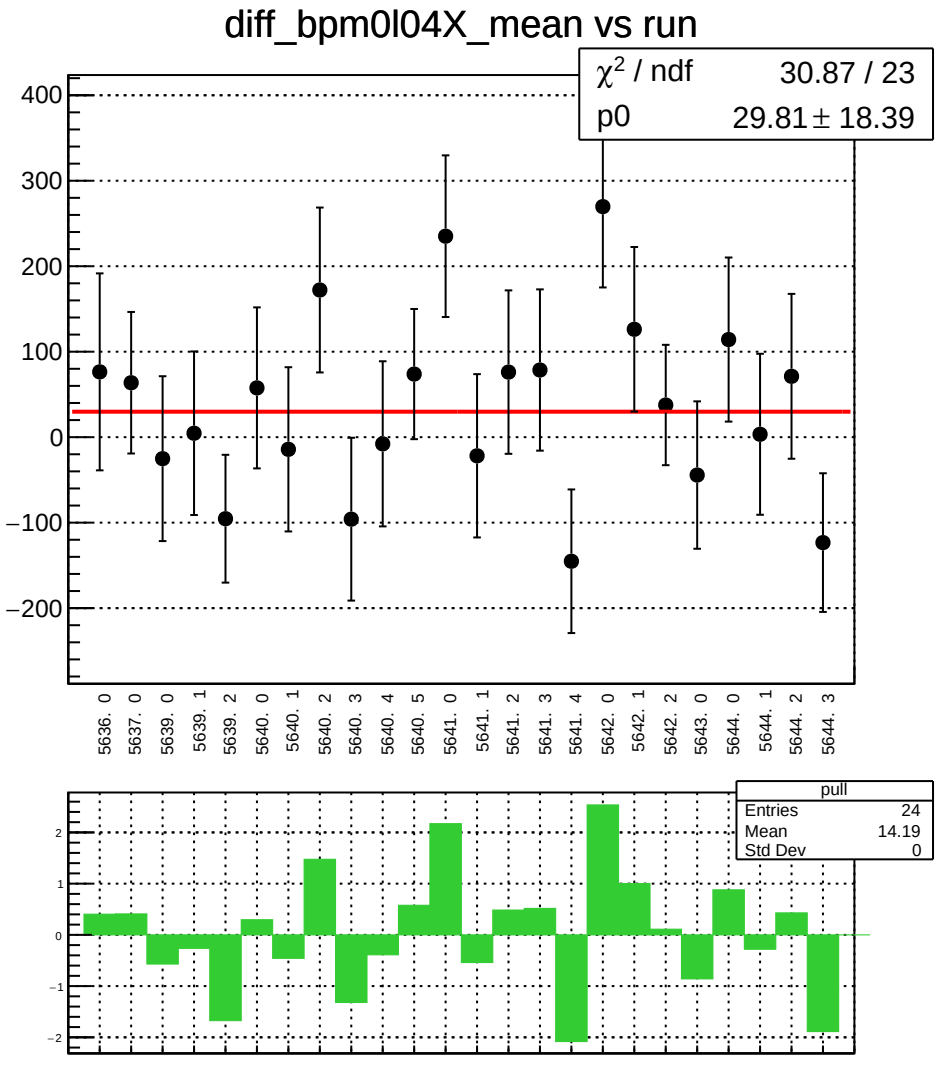

diff_bpm0l03X_mean vs run
χ² / ndf 19 / 23
p0 −103.7 ± 101.9
2000
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 23.84
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

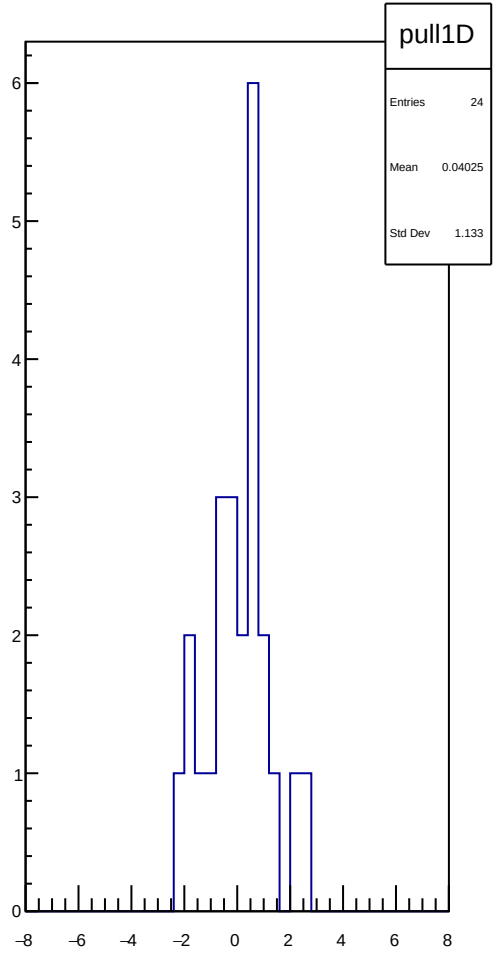

pull1D
Entries 24
Mean 0.06211
Std Dev 0.8876
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

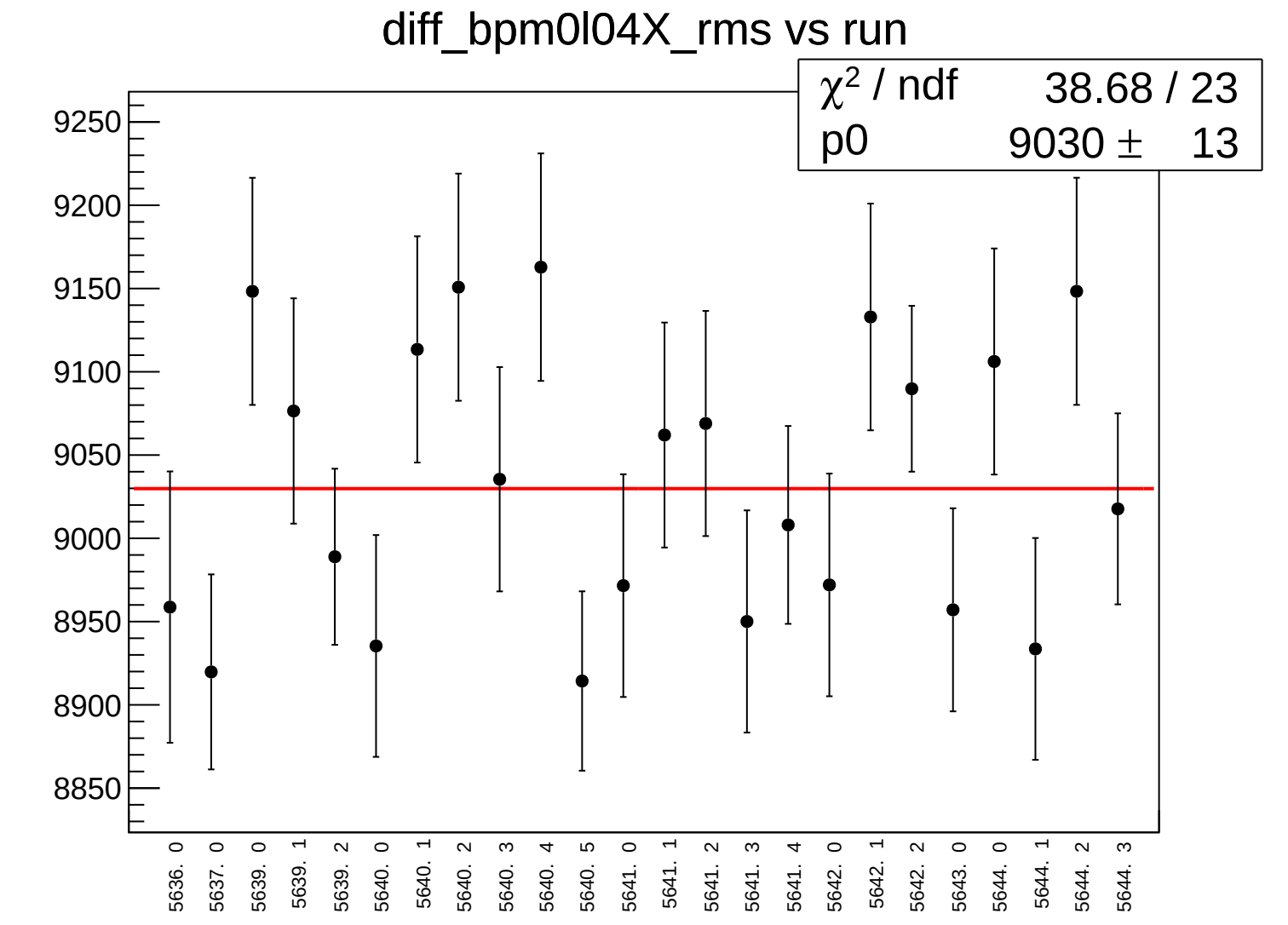

diff_bpm0l03X_rms vs run
×10^3
χ^2 / ndf 2.514e+04 / 23
p0 4.871e+04 ± 72.04
100
90
80
70
60
50
40
30
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

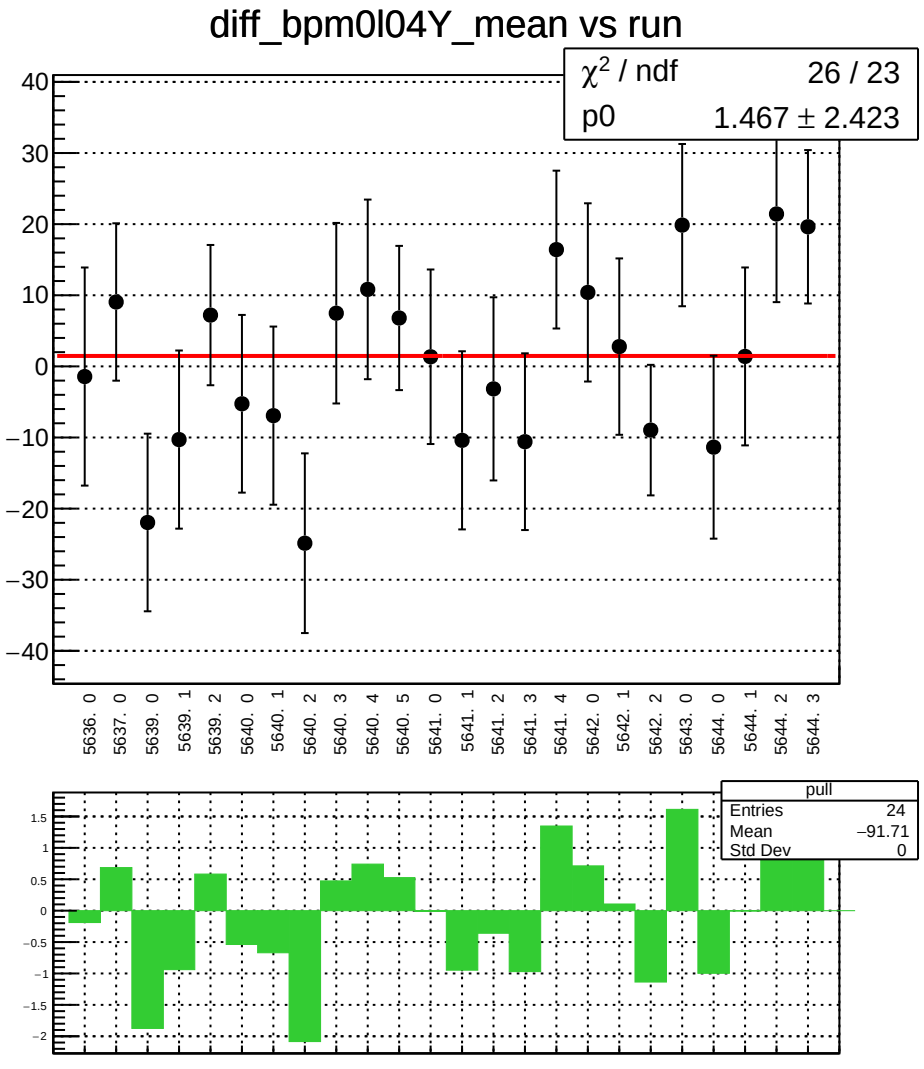

diff_bpm0l03Y_mean vs run
χ² / ndf 19.82 / 23
p0 −99.11 ± 101.5
2000
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 25.97
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.05756
Std Dev 0.9069
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

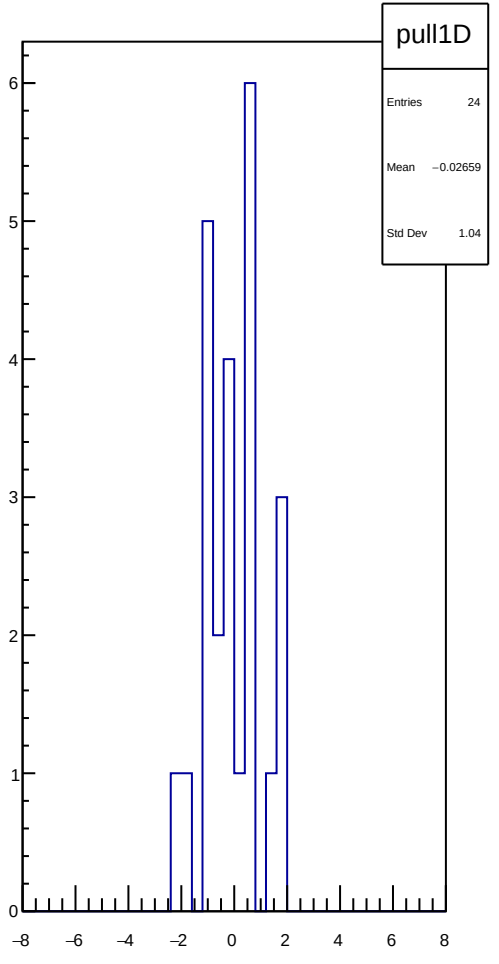

diff_bpm0l03Y_rms vs run
χ^2 / ndf 2.551e+04 / 23
p0 4.848e+04 ± 71.74
×10^3
100
90
80
70
60
50
40
30
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

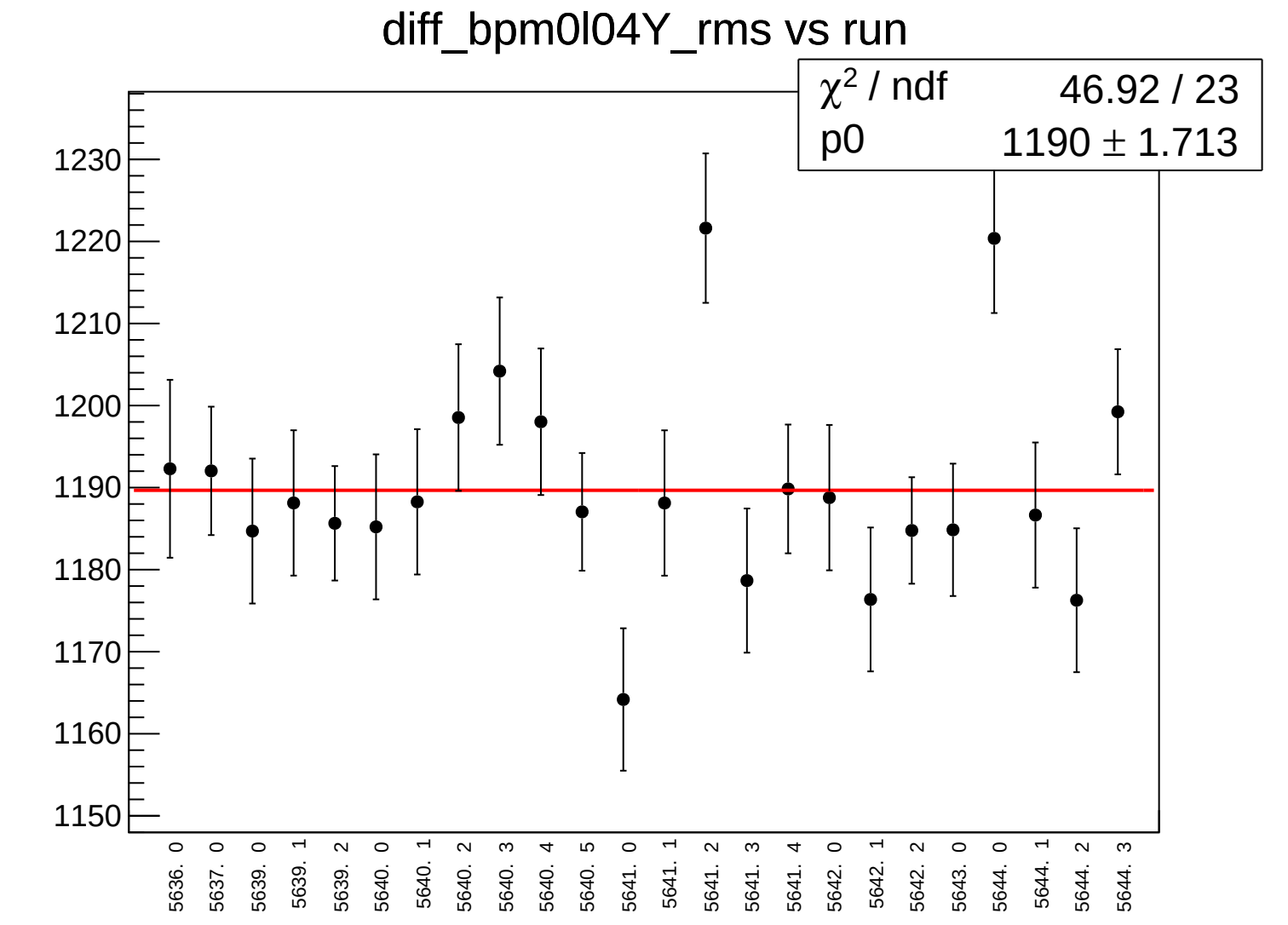

diff_bpm0l04X_mean vs run
χ^2 / ndf 30.87 / 23
p0 29.81 ± 18.39
400
300
200
100
0
−100
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 14.19
Std Dev 0
2
1
0
−1
−2

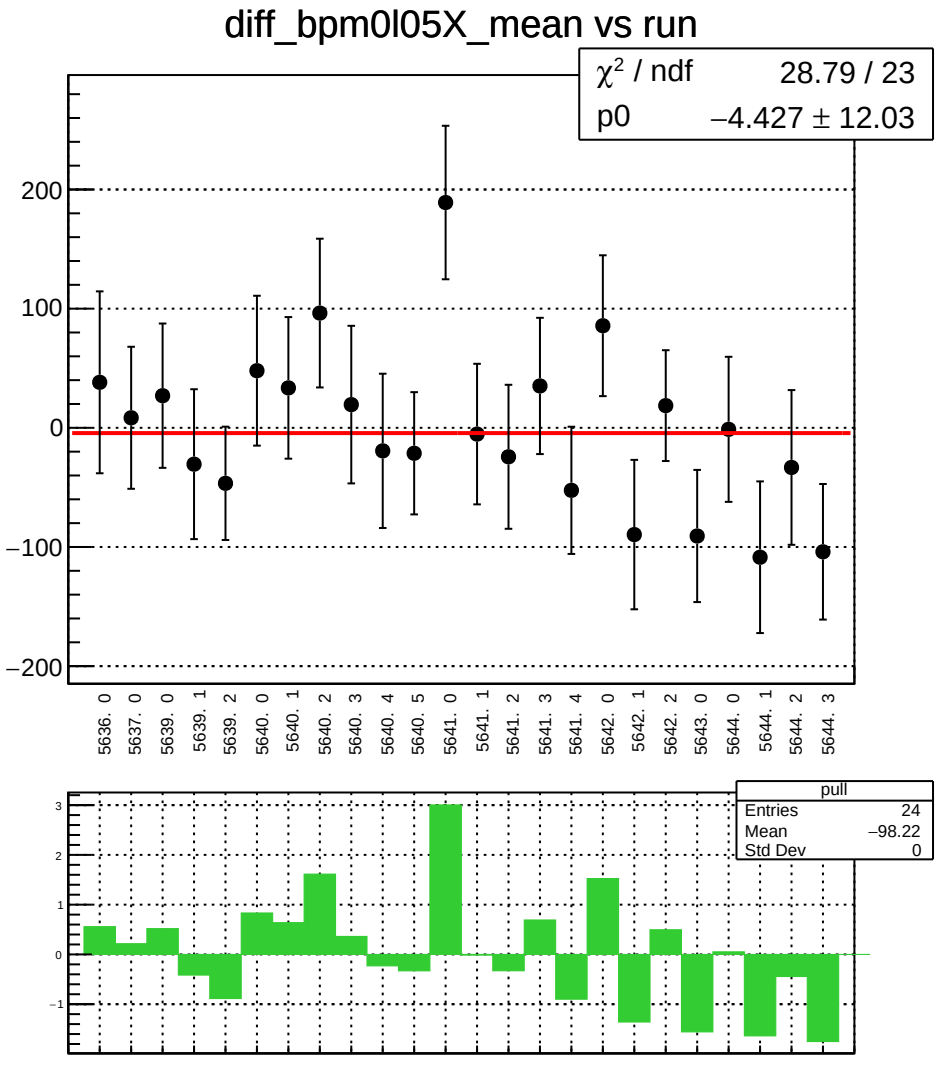

pull1D
Entries 24
Mean 0.04025
Std Dev 1.133
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

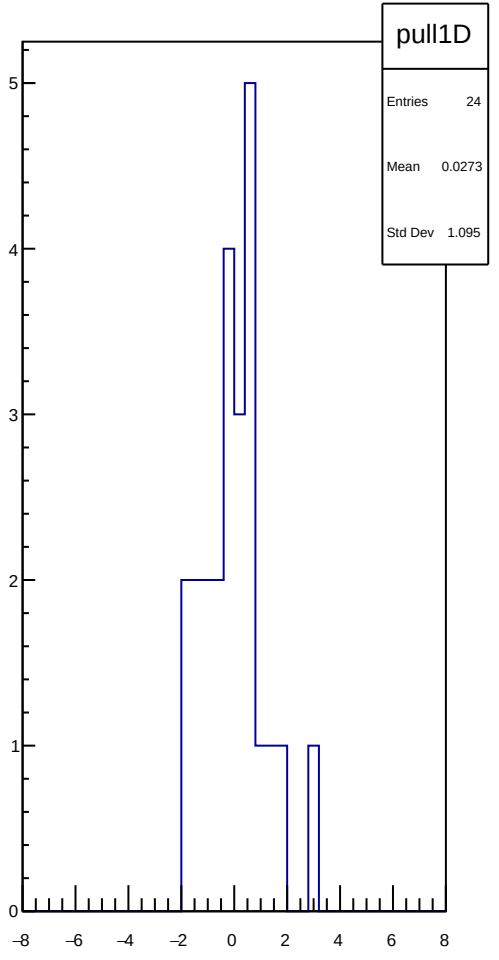

diff_bpm0l04X_rms vs run
χ² / ndf 38.68 / 23
p0 9030 ± 13
9250
9200
9150
9100
9050
9000
8950
8900
8850
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

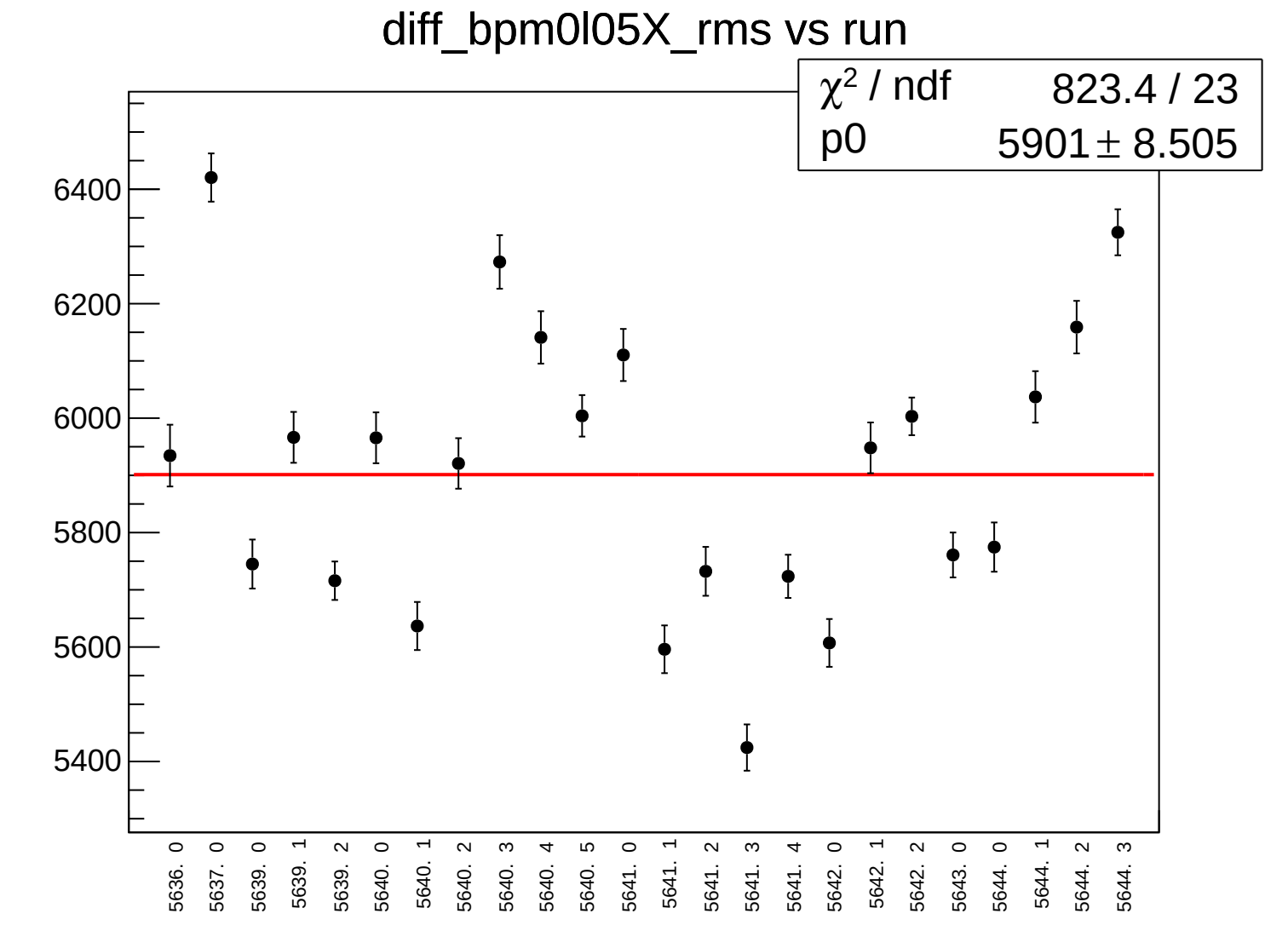

diff_bpm0l04Y_mean vs run
χ² / ndf 26 / 23
p0 1.467 ± 2.423
40
30
20
10
0
−10
−20
−30
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −91.71
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

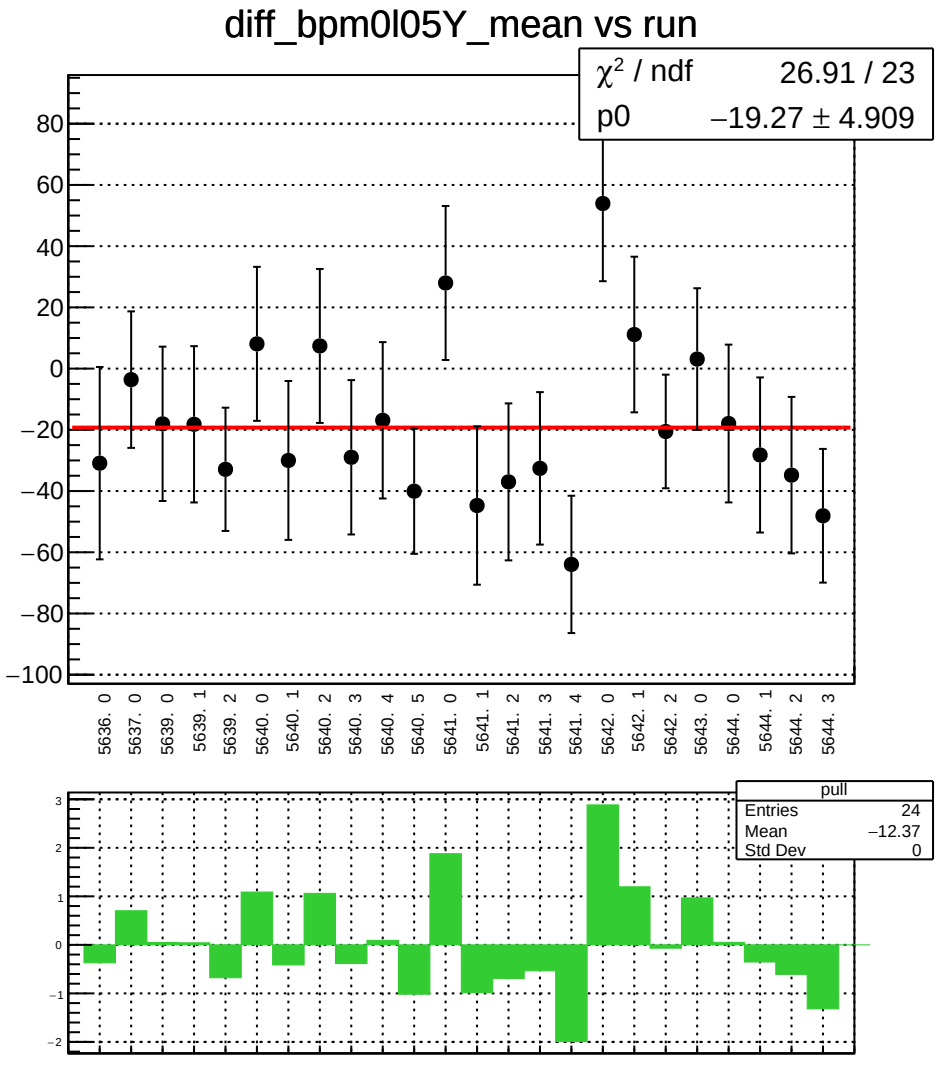

pull1D
Entries 24
Mean −0.02659
Std Dev 1.04
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

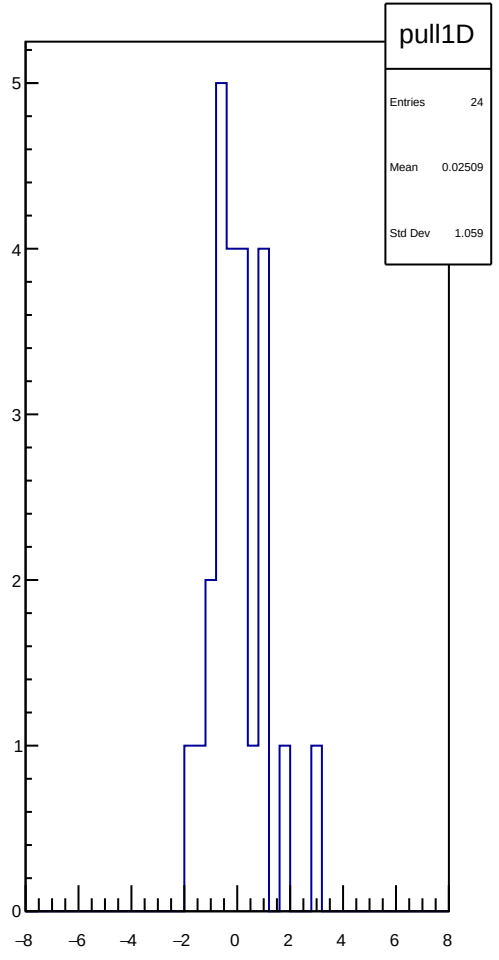

diff_bpm0l04Y_rms vs run
χ² / ndf 46.92 / 23
p0 1190 ± 1.713
1230
1220
1210
1200
1190
1180
1170
1160
1150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

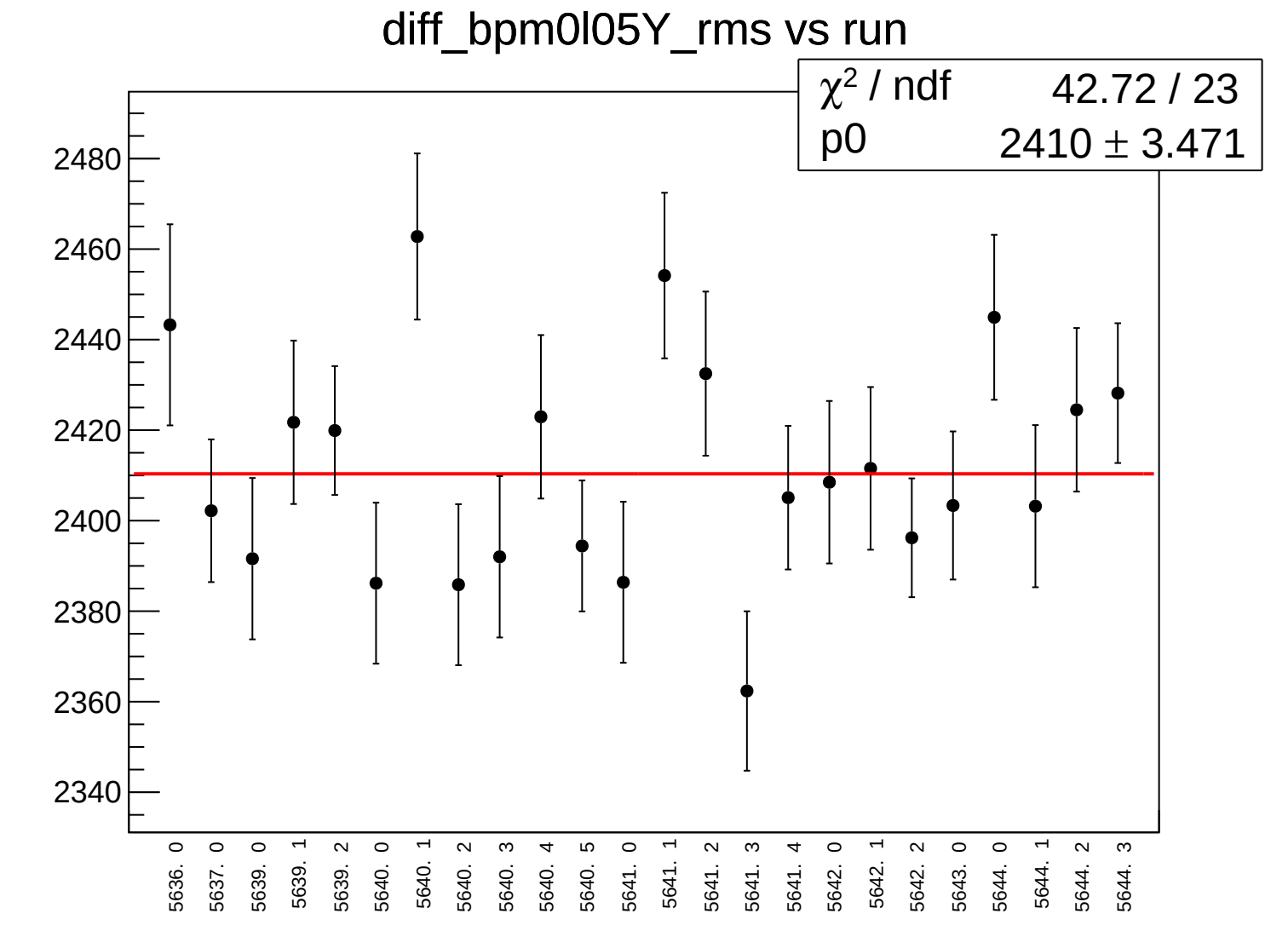

diff_bpm0l05X_mean vs run
χ² / ndf 28.79 / 23
p0 −4.427 ± 12.03
200
100
0
−100
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −98.22
Std Dev 0
3
2
1
0
−1

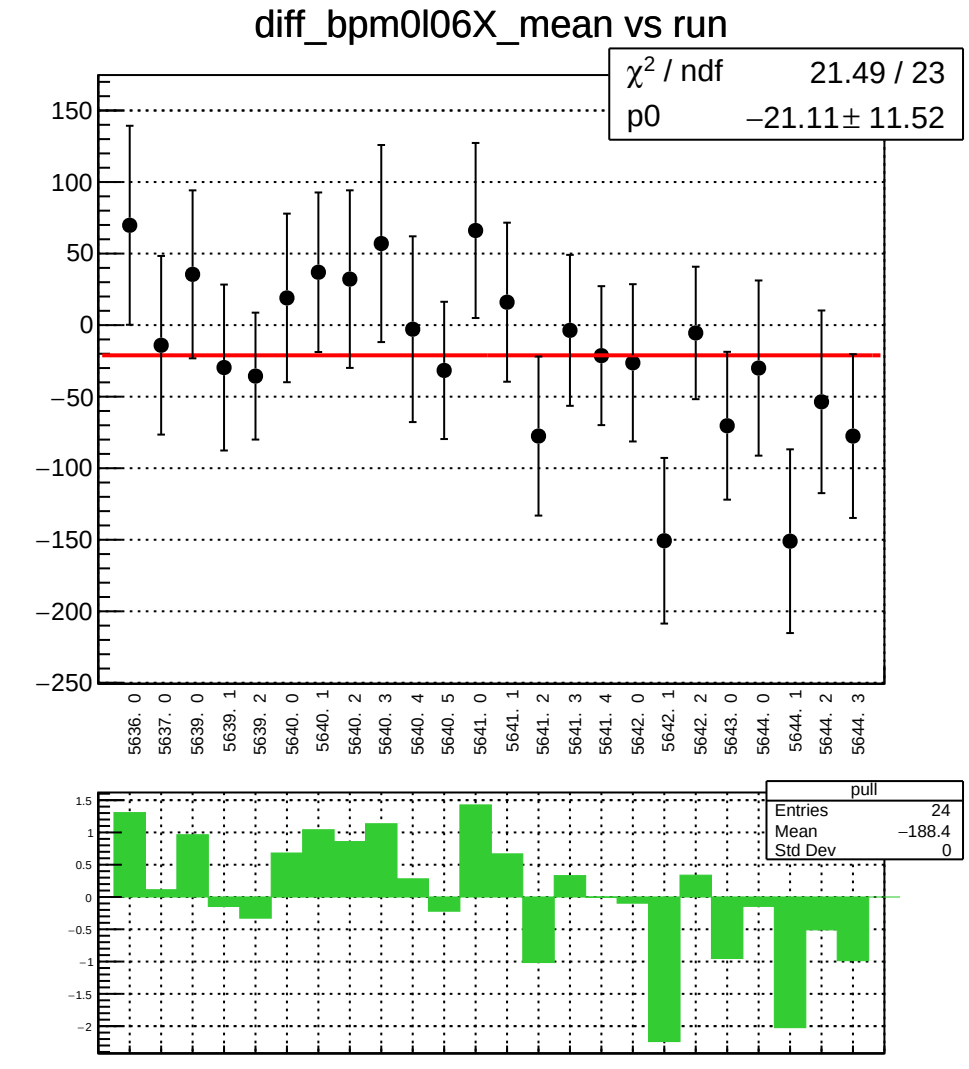

pull1D
Entries 24
Mean 0.0273
Std Dev 1.095
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

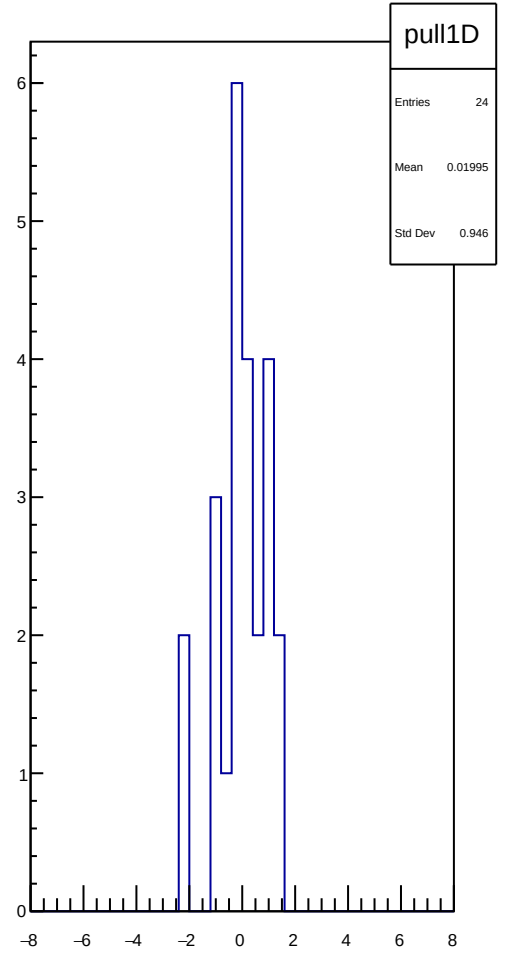

diff_bpm0l05X_rms vs run
χ² / ndf 823.4 / 23
p0 5901 ± 8.505
6400
6200
6000
5800
5600
5400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

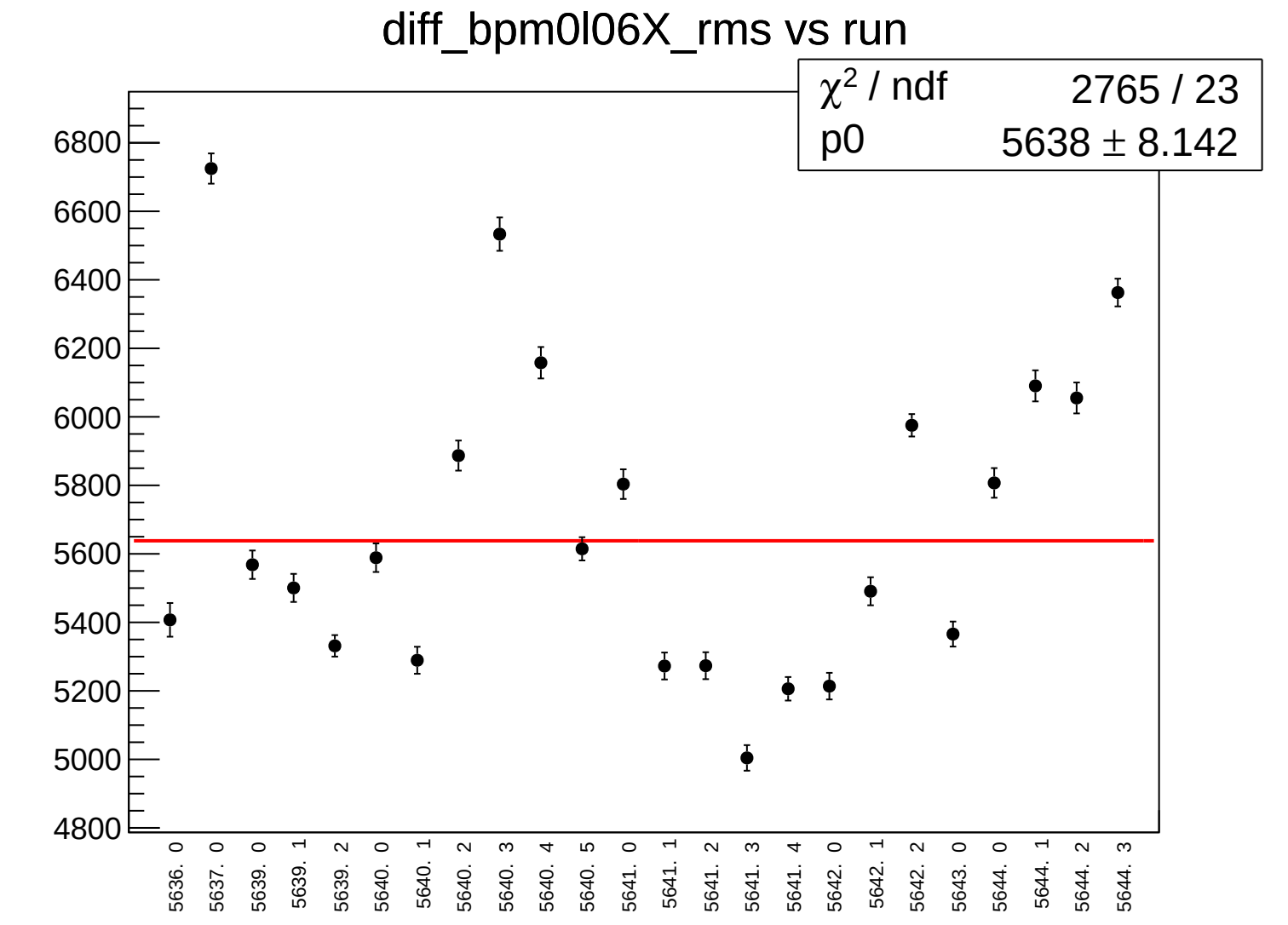

diff_bpm0l05Y_mean vs run
χ² / ndf 26.91 / 23
p0 −19.27 ± 4.909
80
60
40
20
0
−20
−40
−60
−80
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −12.37
Std Dev 0
3
2
1
0
−1
−2

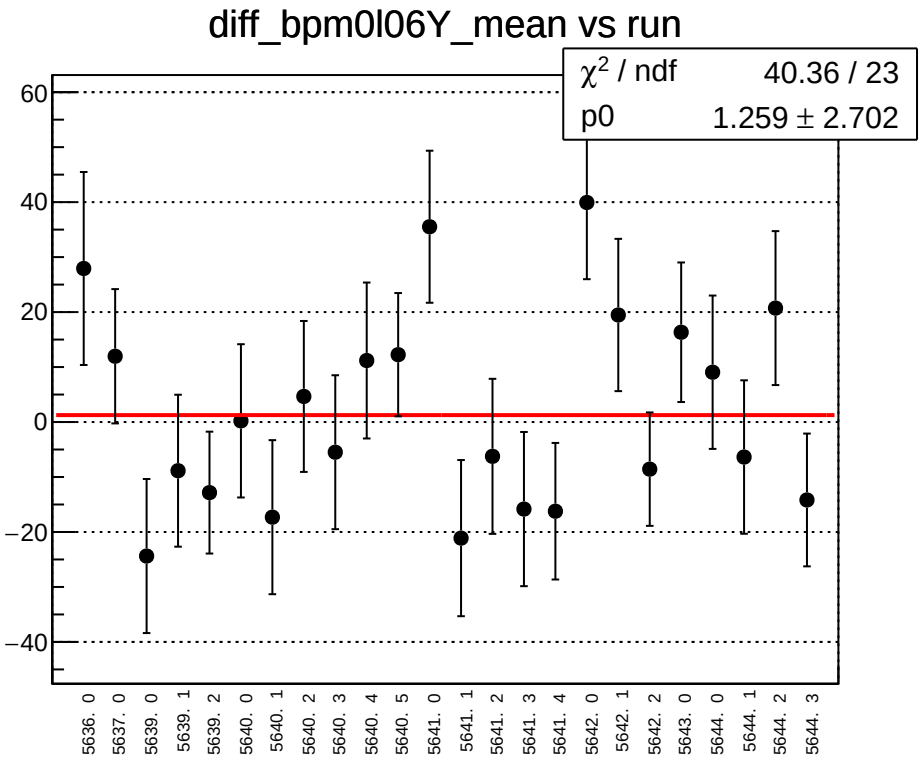

pull1D
Entries 24
Mean 0.02509
Std Dev 1.059
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

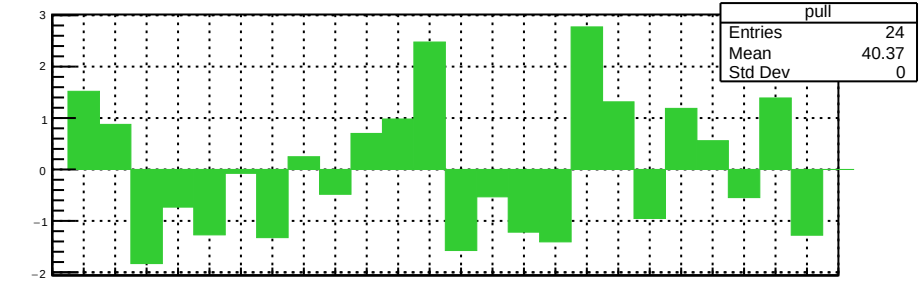

diff_bpm0l05Y_rms vs run
χ² / ndf 42.72 / 23
p0 2410 ± 3.471
2480
2460
2440
2420
2400
2380
2360
2340
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

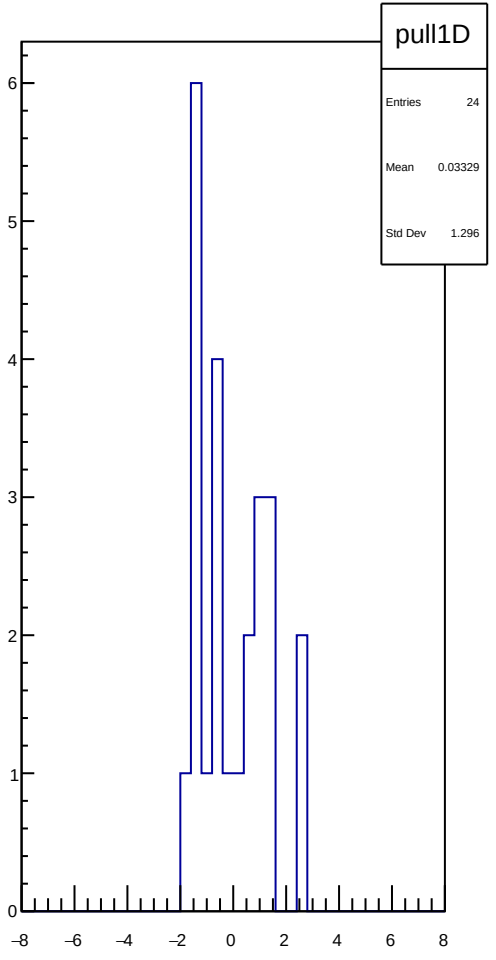

diff_bpm0l06X_mean vs run
χ² / ndf 21.49 / 23
p0 −21.11 ± 11.52
150
100
50
0
−50
−100
−150
−200
−250
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −188.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

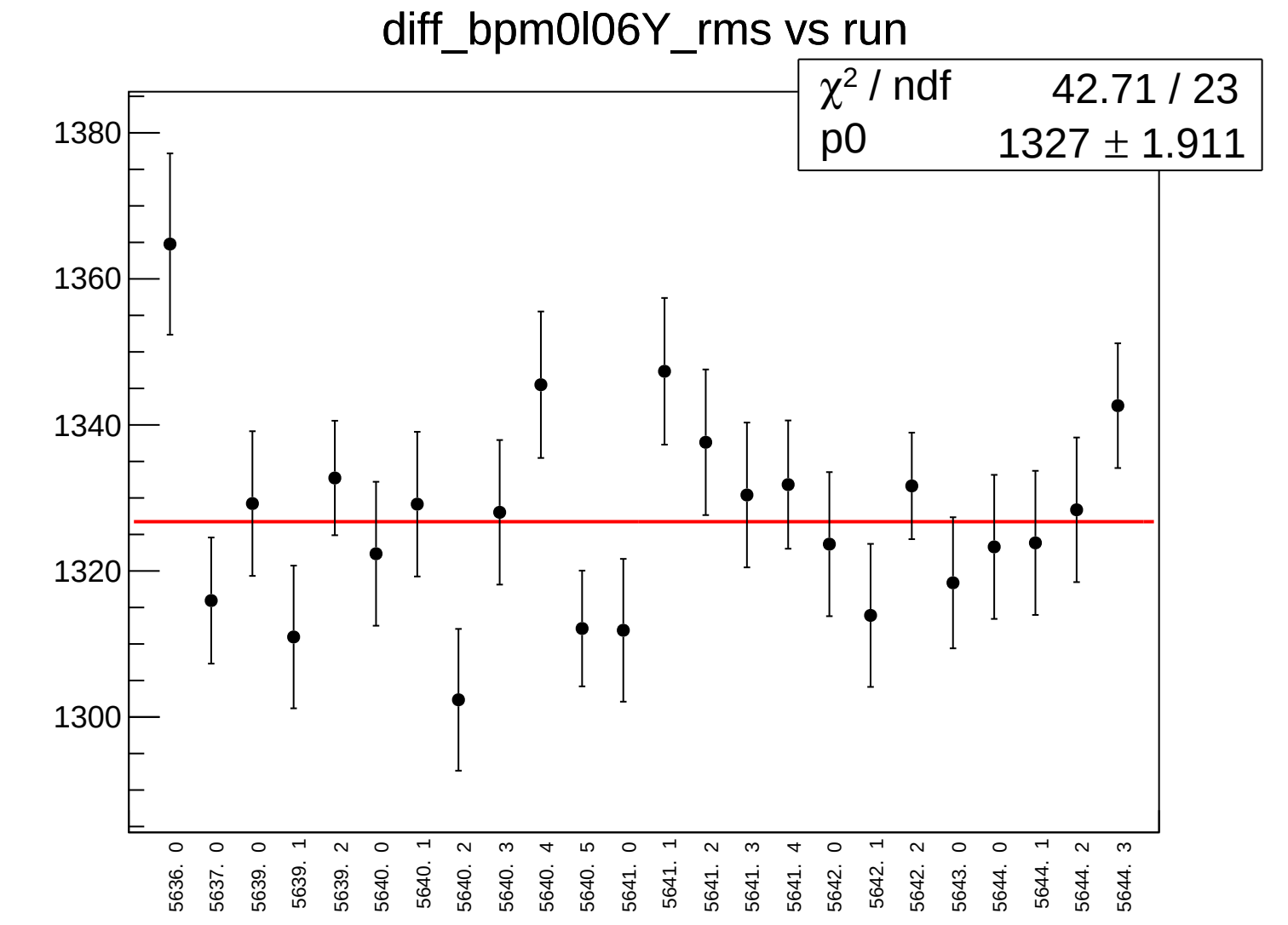

pull1D
Entries 24
Mean 0.01995
Std Dev 0.946
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

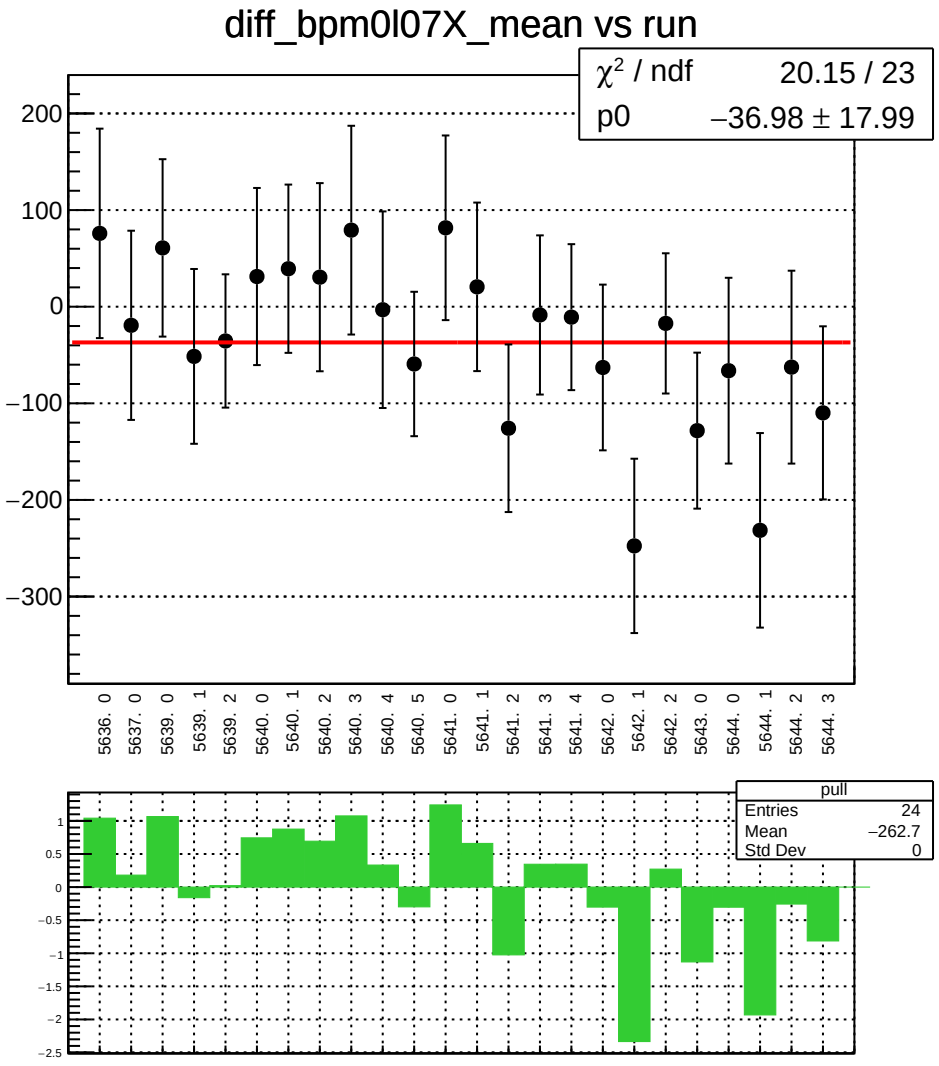

diff_bpm0l06X_rms vs run
χ² / ndf 2765 / 23
p0 5638 ± 8.142
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

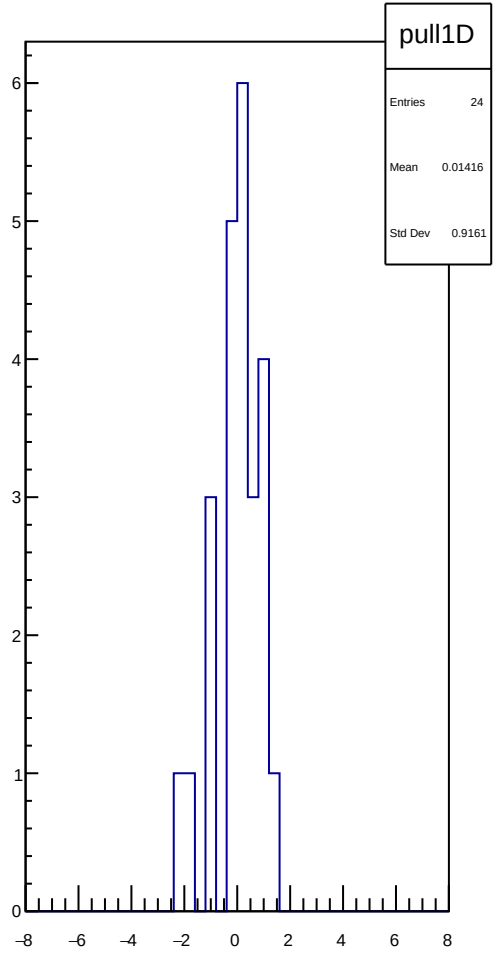

diff_bpm0l06Y_mean vs run
χ² / ndf 40.36 / 23
p0 1.259 ± 2.702
60
40
20
0
−20
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

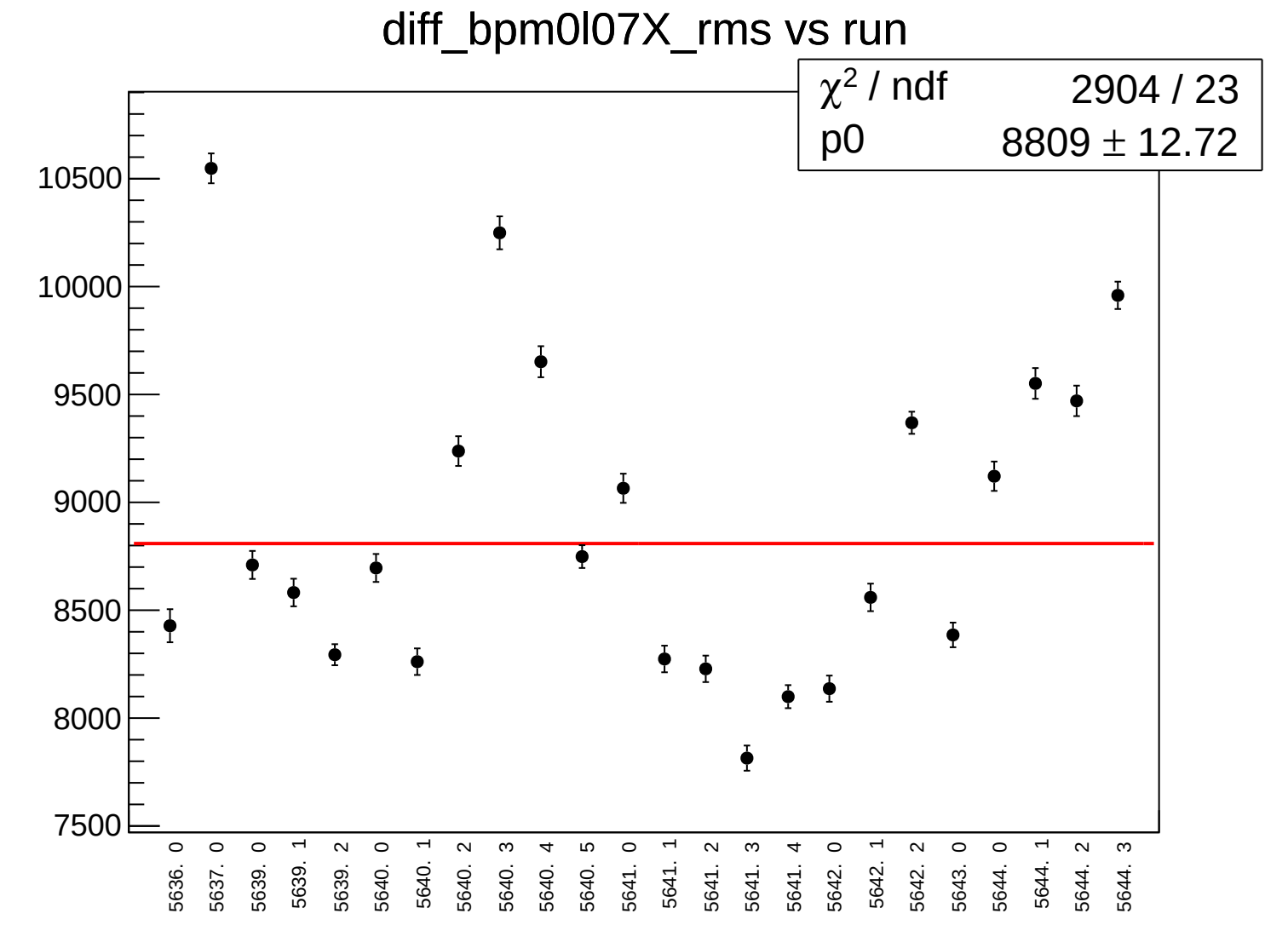

pull
Entries 24
Mean 40.37
Std Dev 0
3
2
1
0
−1
−2

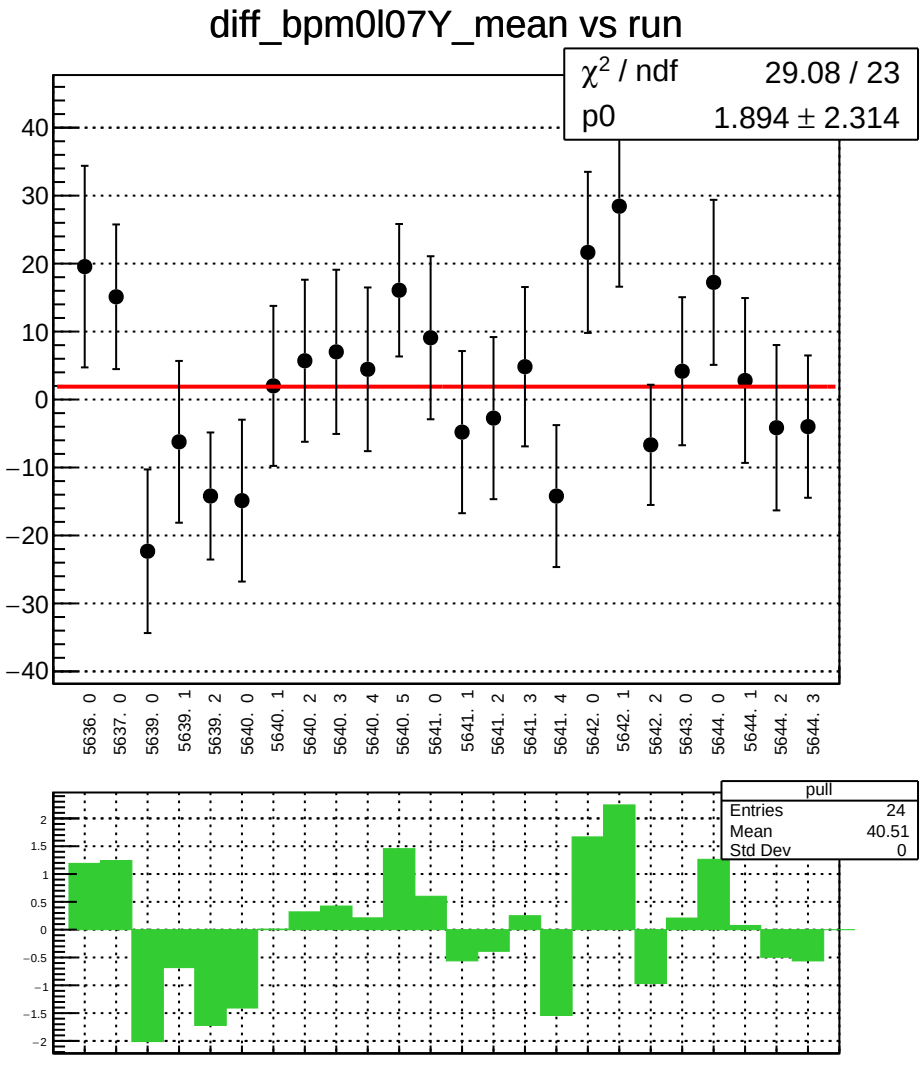

pull1D
Entries 24
Mean 0.03329
Std Dev 1.296
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

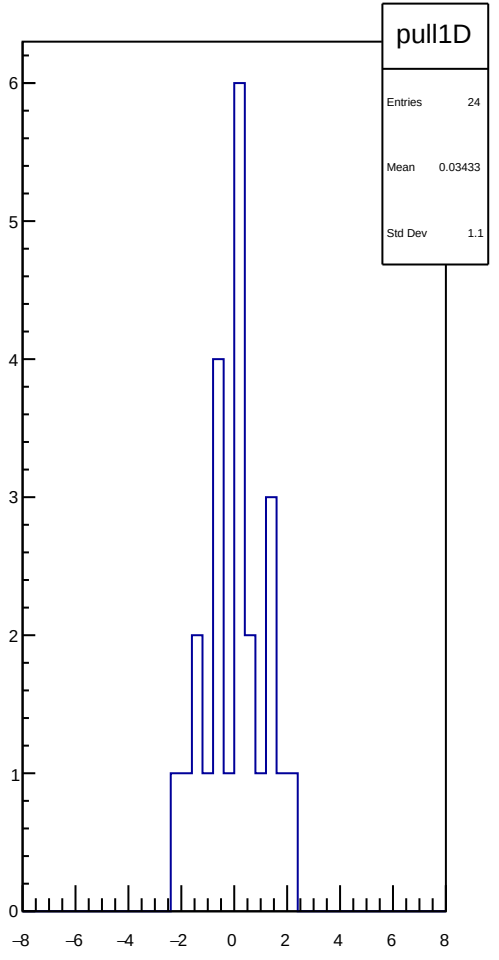

diff_bpm0l06Y_rms vs run
χ² / ndf 42.71 / 23
p0 1327 ± 1.911
1380
1360
1340
1320
1300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

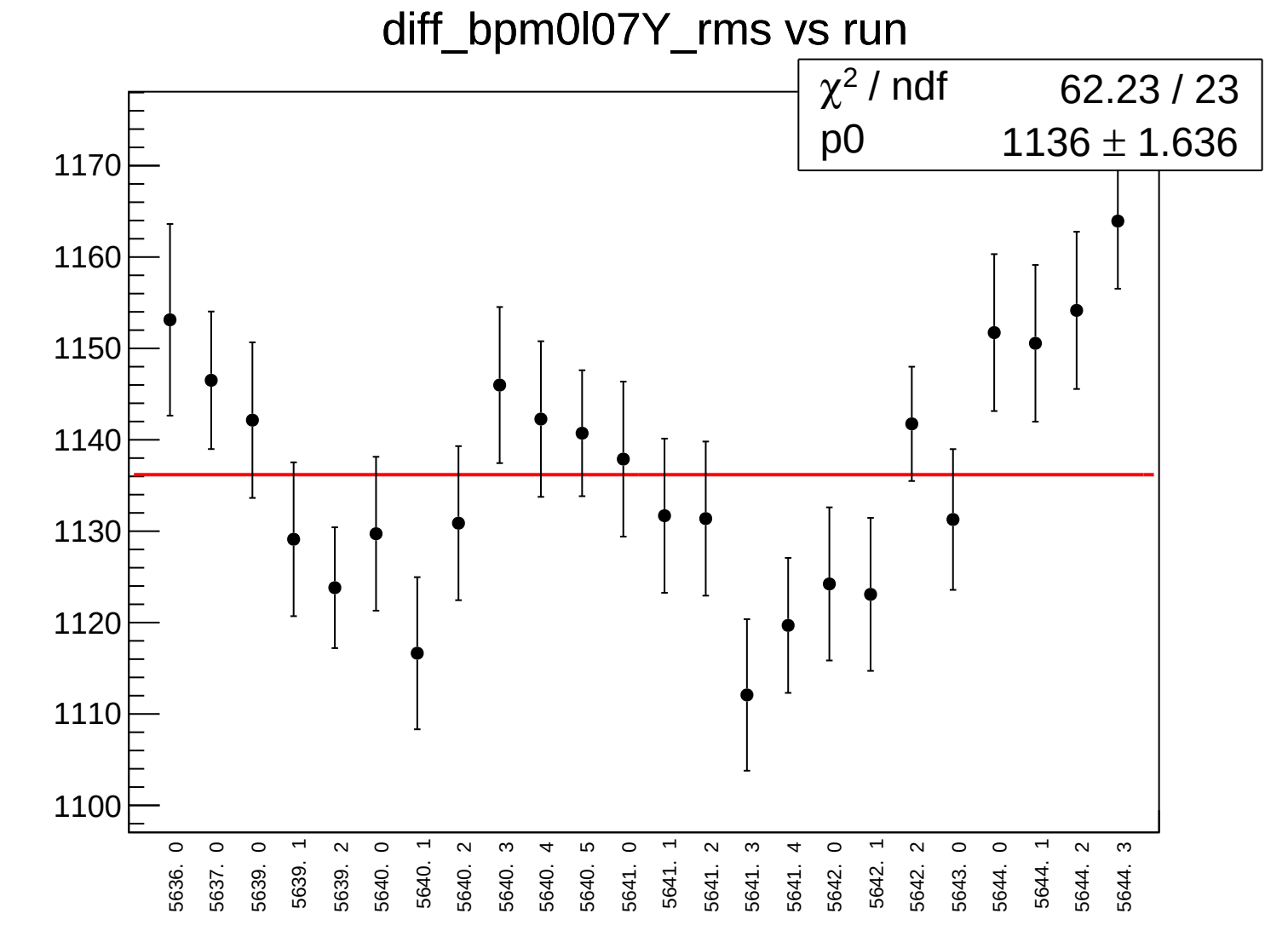

diff_bpm0l07X_mean vs run
χ² / ndf 20.15 / 23
p0 −36.98 ± 17.99
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −262.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

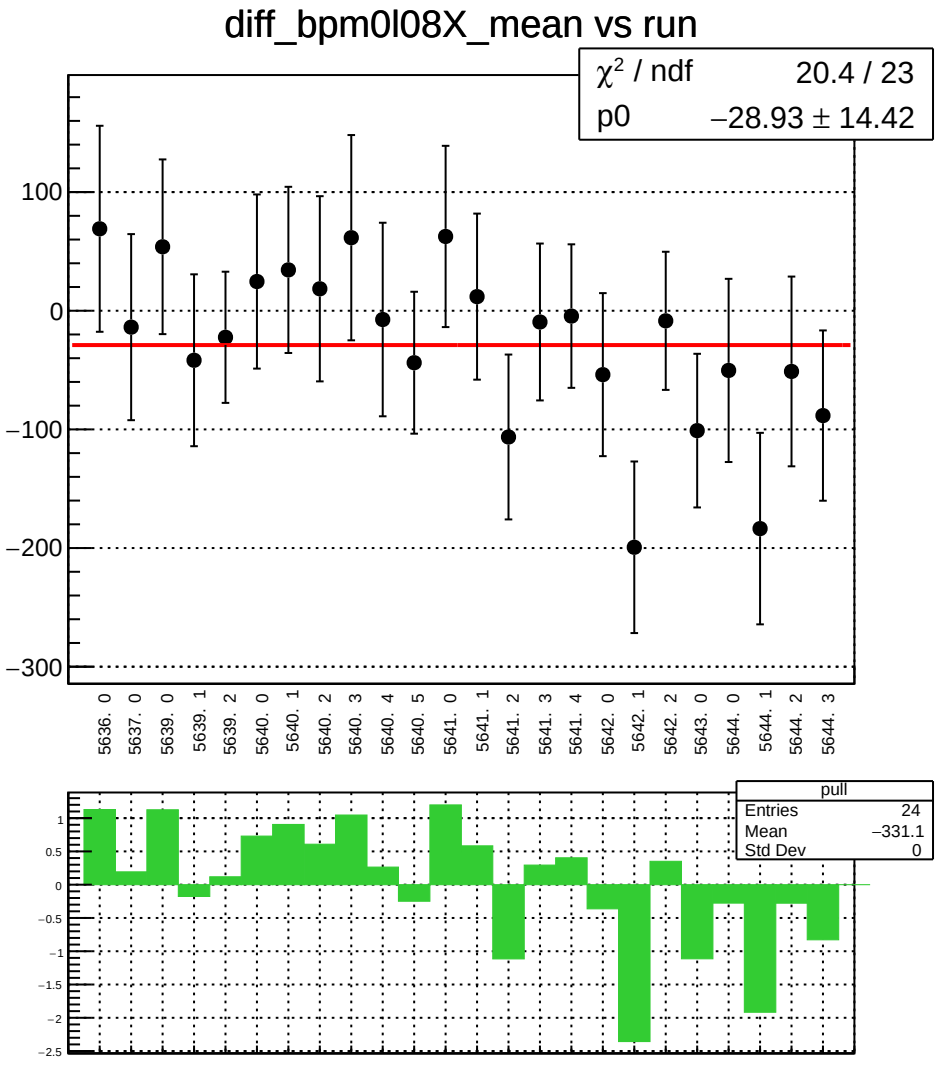

pull1D
Entries 24
Mean 0.01416
Std Dev 0.9161
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

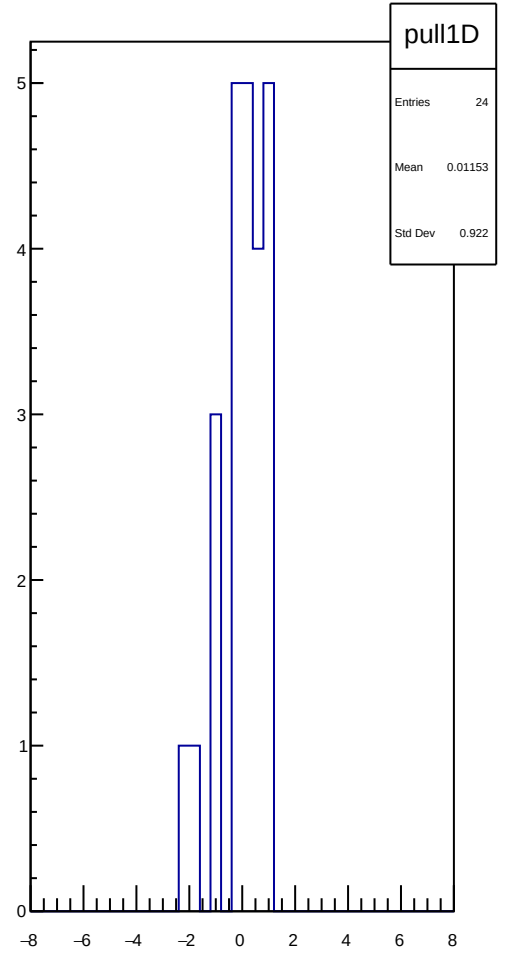

diff_bpm0l07X_rms vs run
χ² / ndf 2904 / 23
p0 8809 ± 12.72
10500
10000
9500
9000
8500
8000
7500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

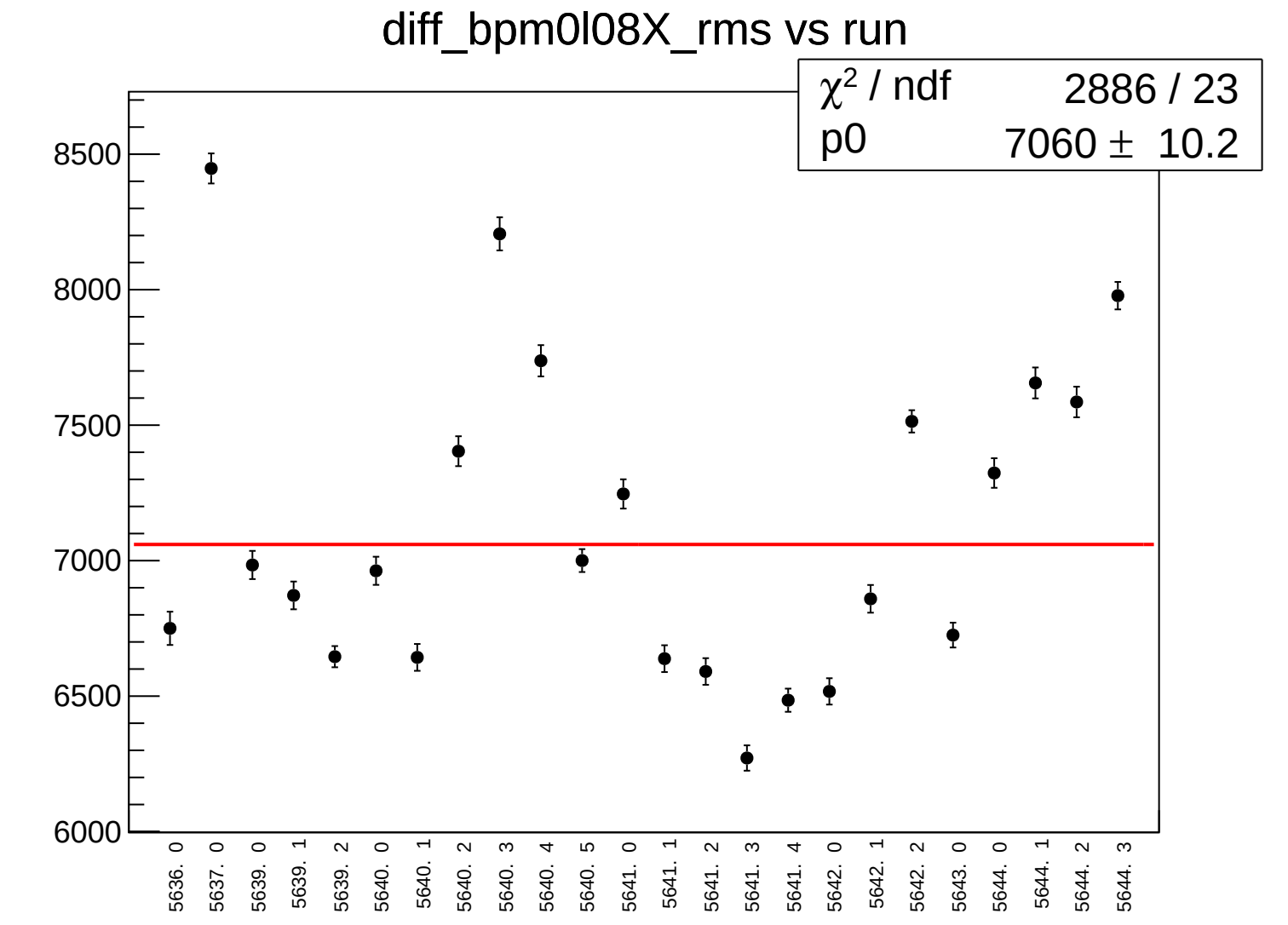

diff_bpm0l07Y_mean vs run
χ² / ndf 29.08 / 23
p0 1.894 ± 2.314
40
30
20
10
0
−10
−20
−30
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 40.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

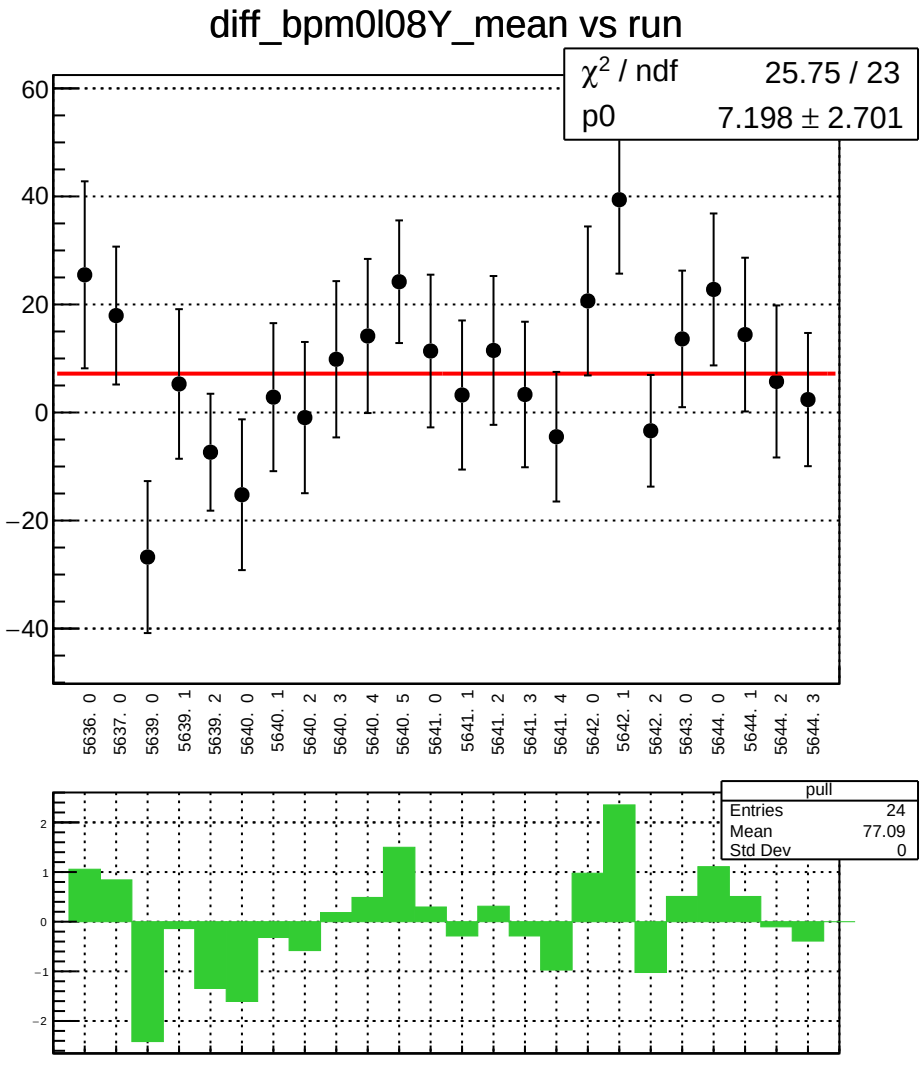

pull1D
Entries 24
Mean 0.03433
Std Dev 1.1
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

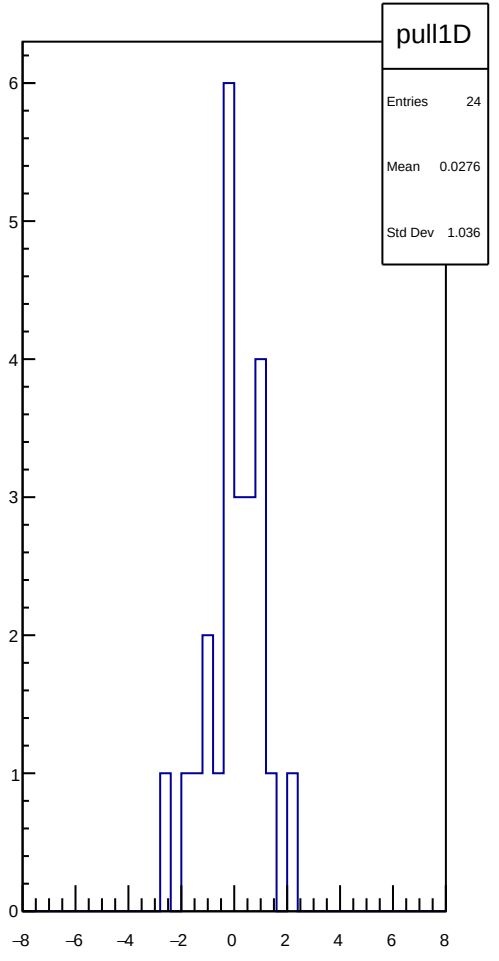

diff_bpm0l07Y_rms vs run
χ² / ndf 62.23 / 23
p0 1136 ± 1.636
1170
1160
1150
1140
1130
1120
1110
1100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

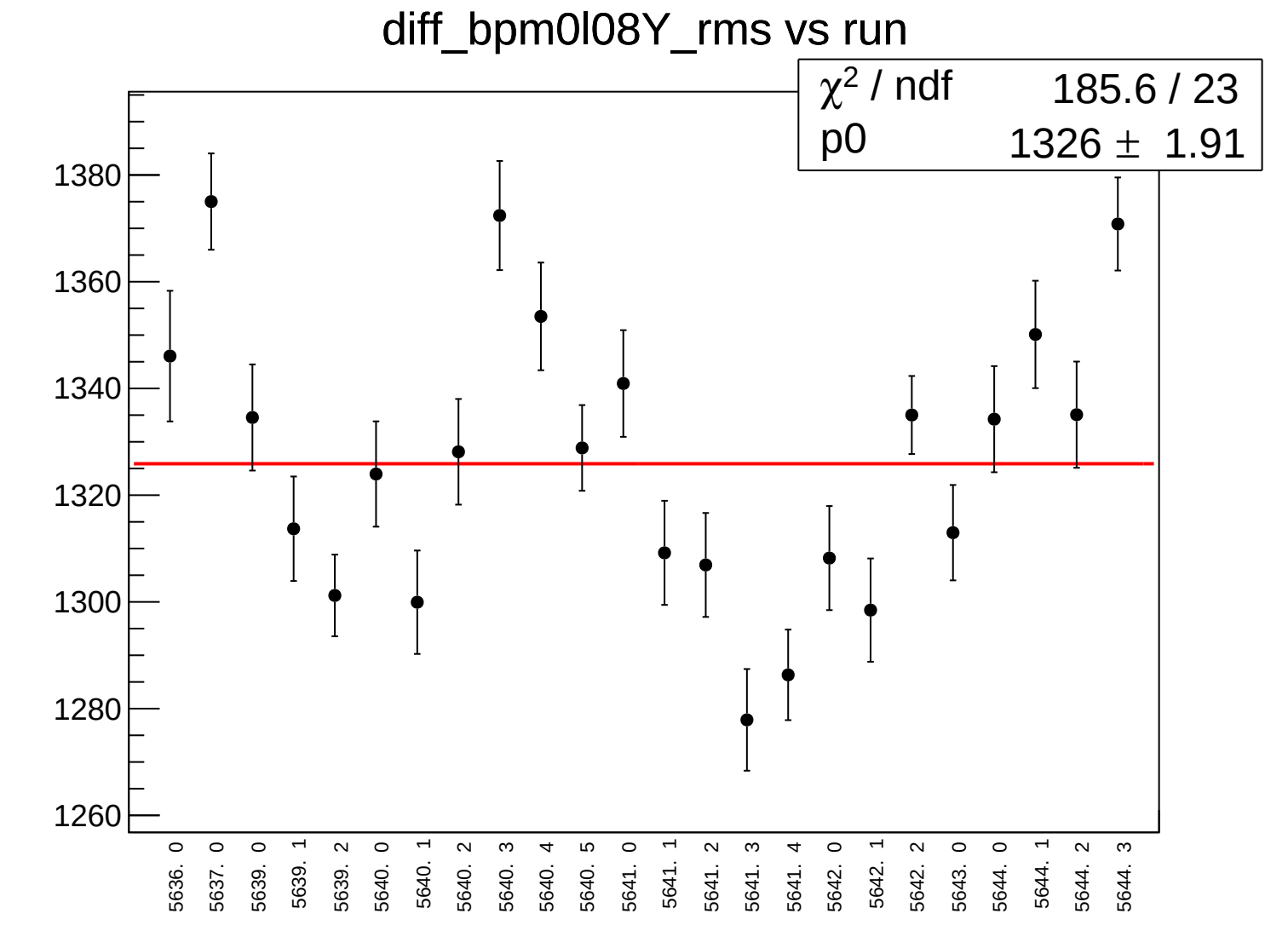

diff_bpm0l08X_mean vs run
χ² / ndf 20.4 / 23
p0 −28.93 ± 14.42
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −331.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

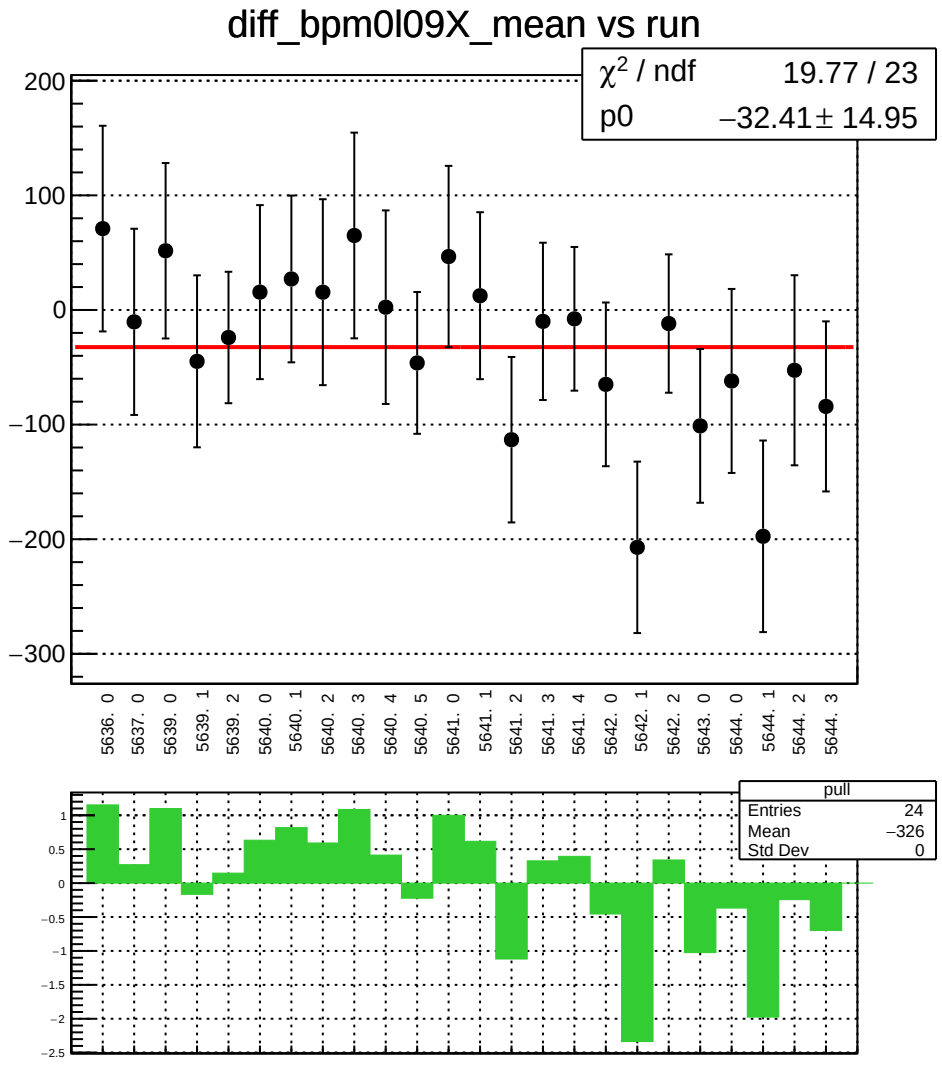

pull1D
Entries 24
Mean 0.01153
Std Dev 0.922
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

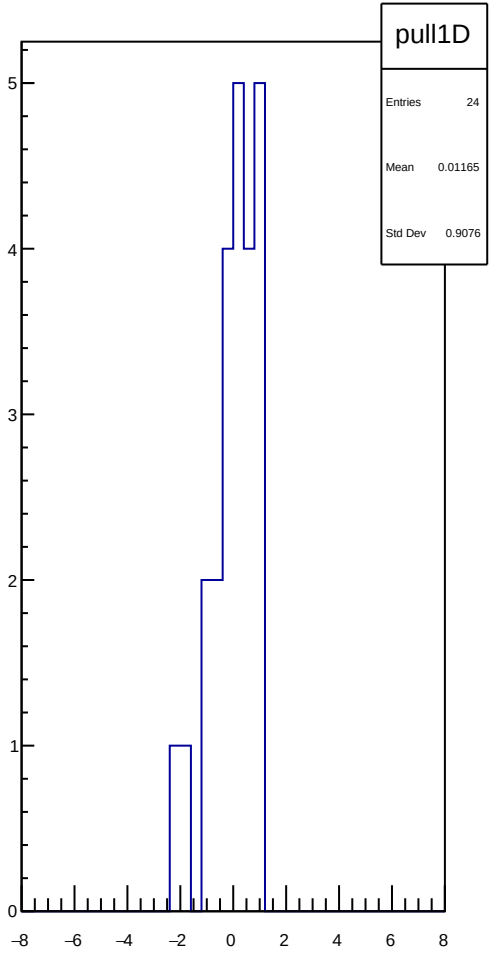

diff_bpm0l08X_rms vs run
χ² / ndf 2886 / 23
p0 7060 ± 10.2
8500
8000
7500
7000
6500
6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

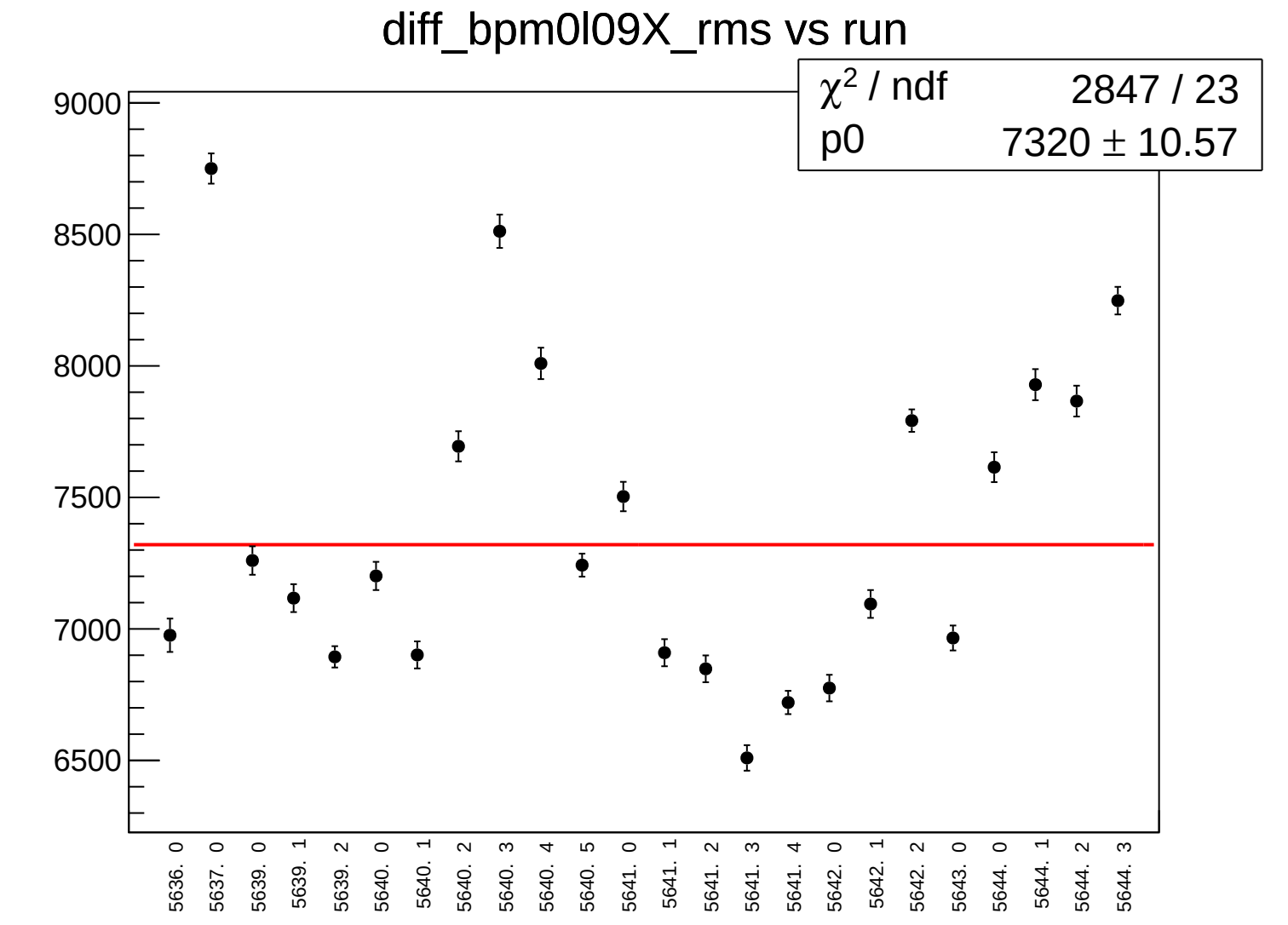

diff_bpm0l08Y_mean vs run
χ² / ndf 25.75 / 23
p0 7.198 ± 2.701
60
40
20
0
−20
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 77.09
Std Dev 0
2
1
0
−1
−2

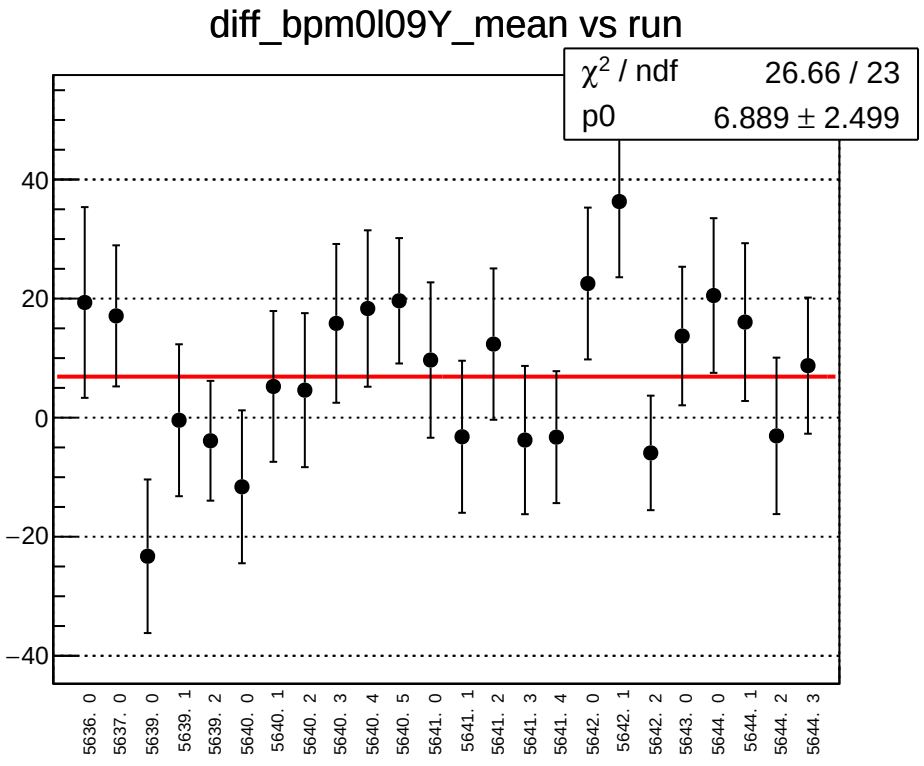

pull1D
Entries 24
Mean 0.0276
Std Dev 1.036
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

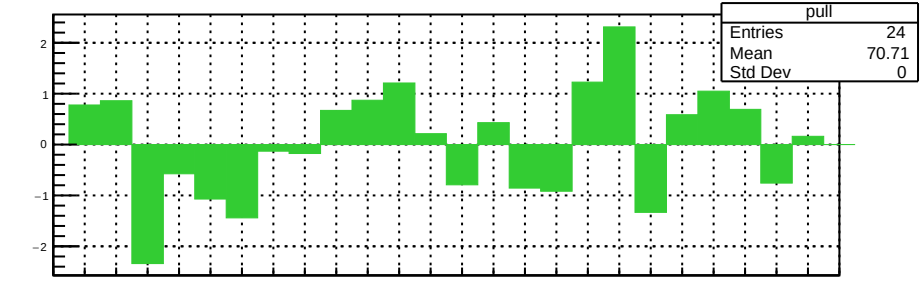

diff_bpm0l08Y_rms vs run
χ² / ndf 185.6 / 23
p0 1326 ± 1.91
1380
1360
1340
1320
1300
1280
1260
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

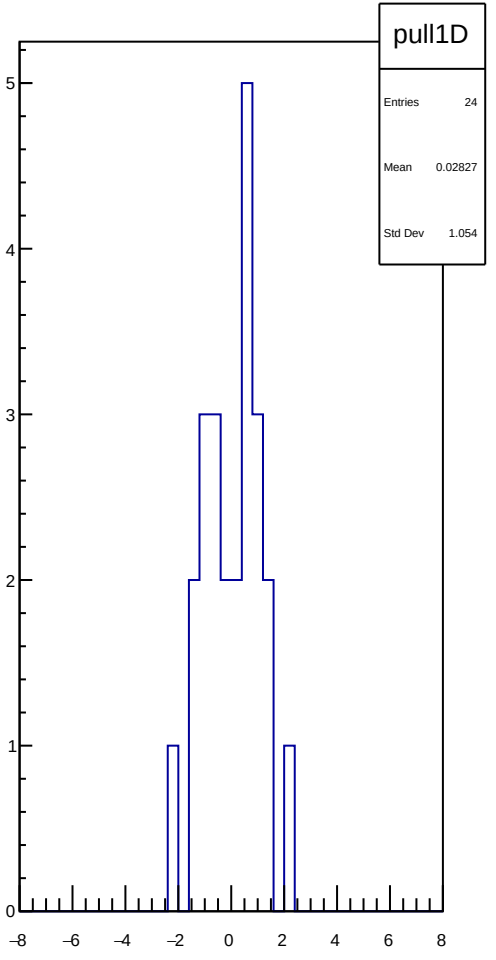

diff_bpm0l09X_mean vs run
χ² / ndf 19.77 / 23
p0 −32.41 ± 14.95
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −326
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

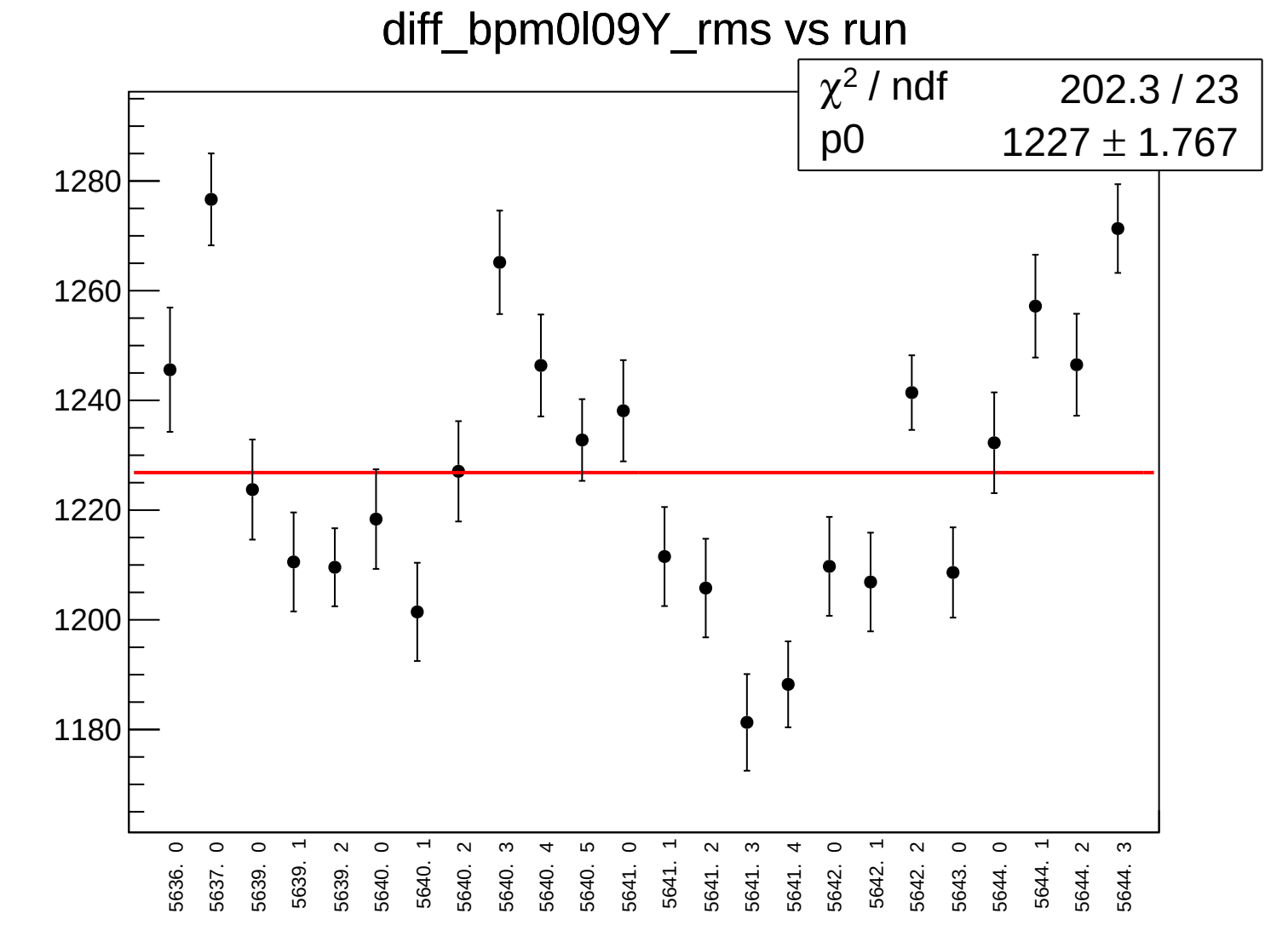

pull1D
Entries 24
Mean 0.01165
Std Dev 0.9076
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

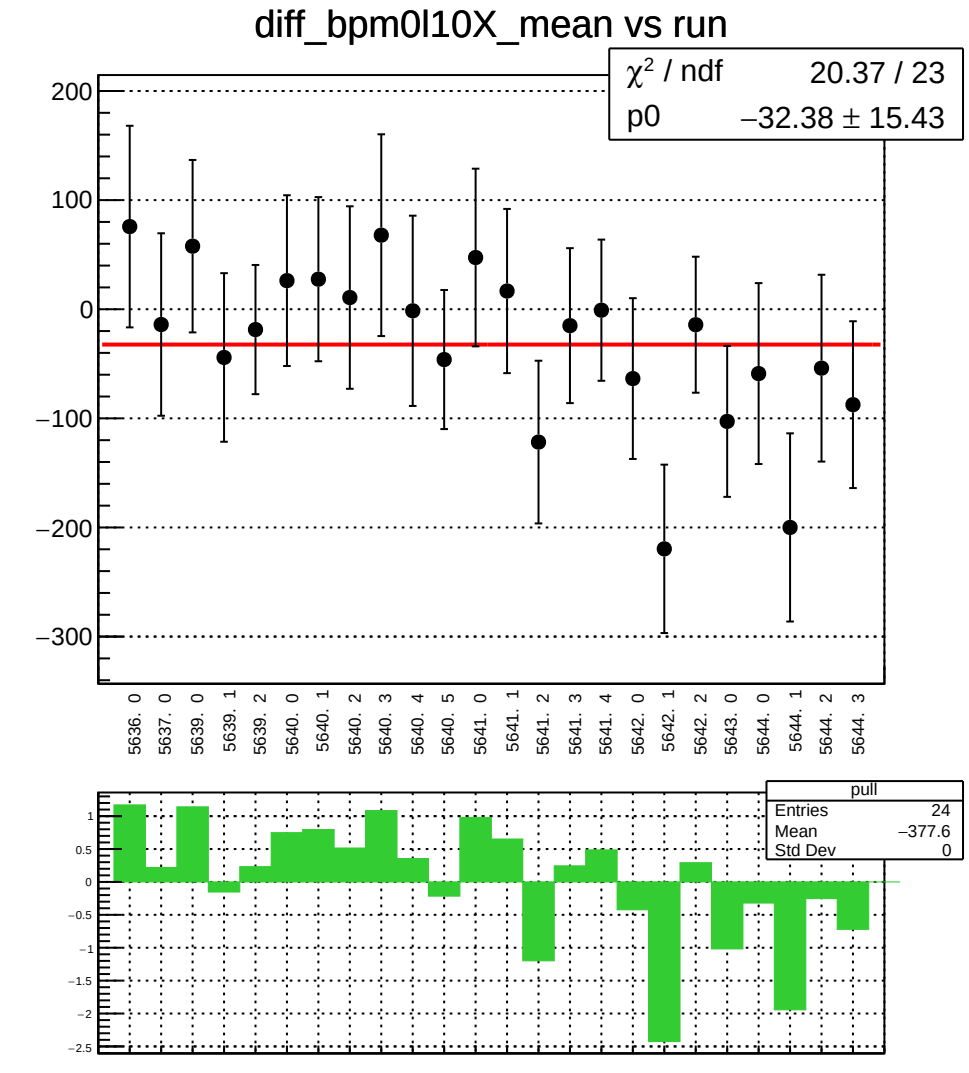

diff_bpm0l09X_rms vs run
χ² / ndf 2847 / 23
p0 7320 ± 10.57
9000
8500
8000
7500
7000
6500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

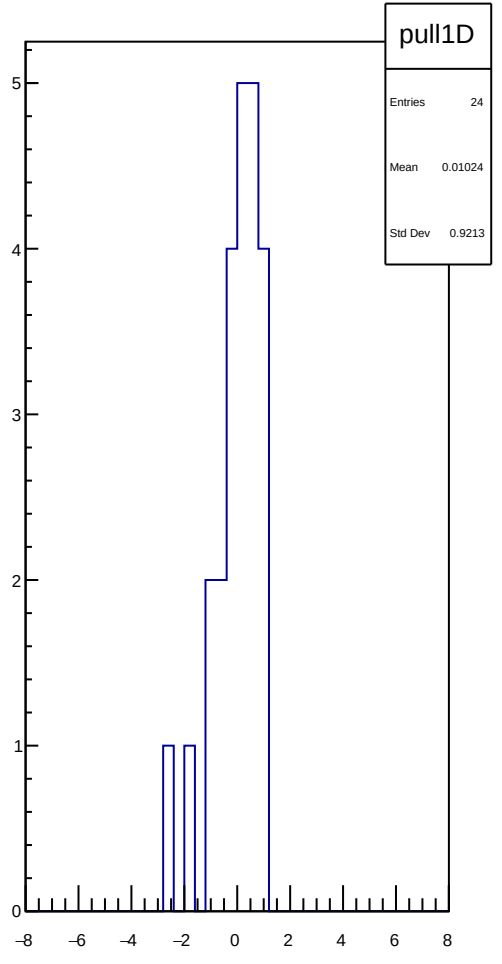

diff_bpm0l09Y_mean vs run
χ² / ndf 26.66 / 23
p0 6.889 ± 2.499
40
20
0
−20
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

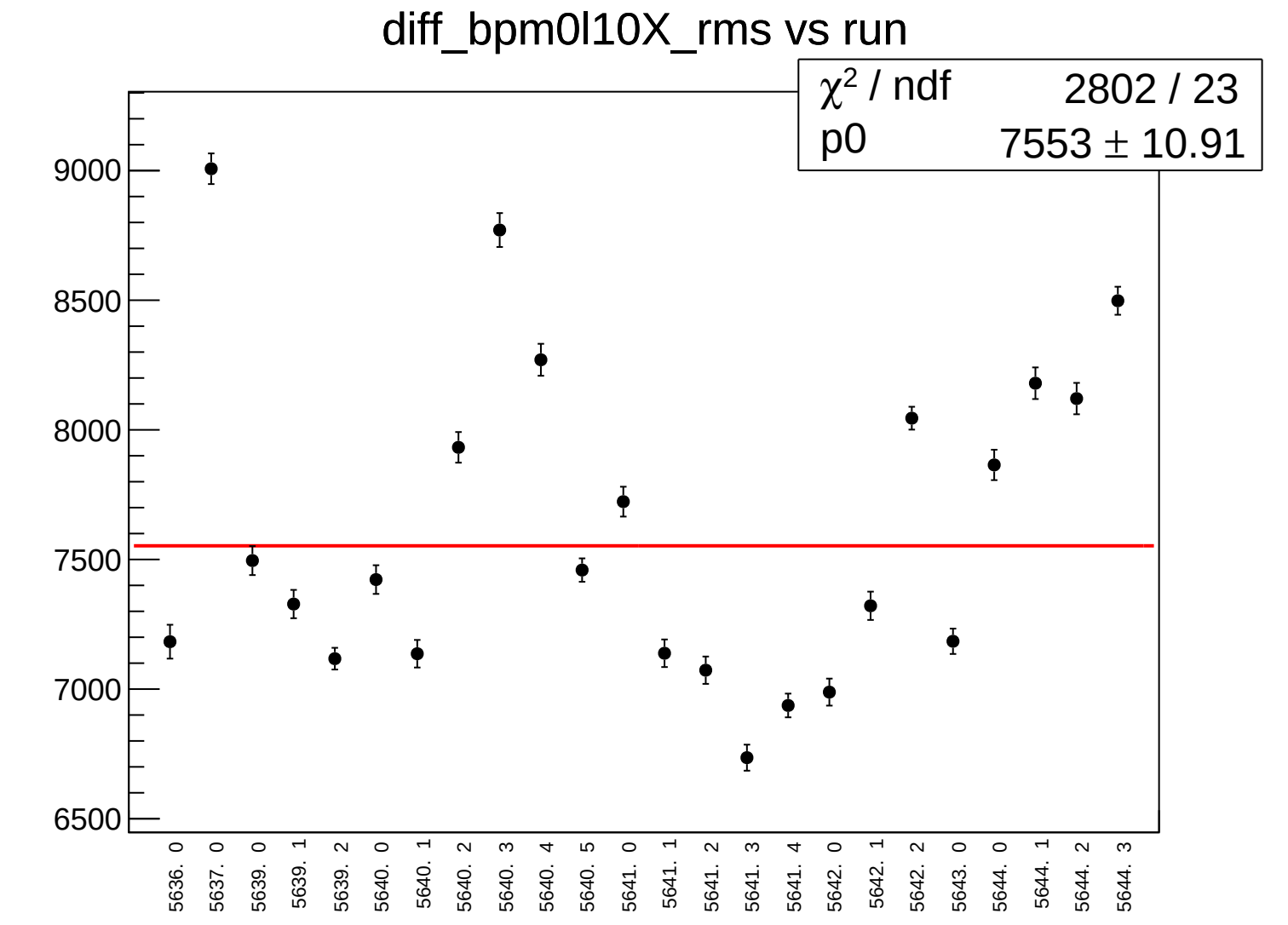

pull
Entries 24
Mean 70.71
Std Dev 0
2
1
0
−1
−2

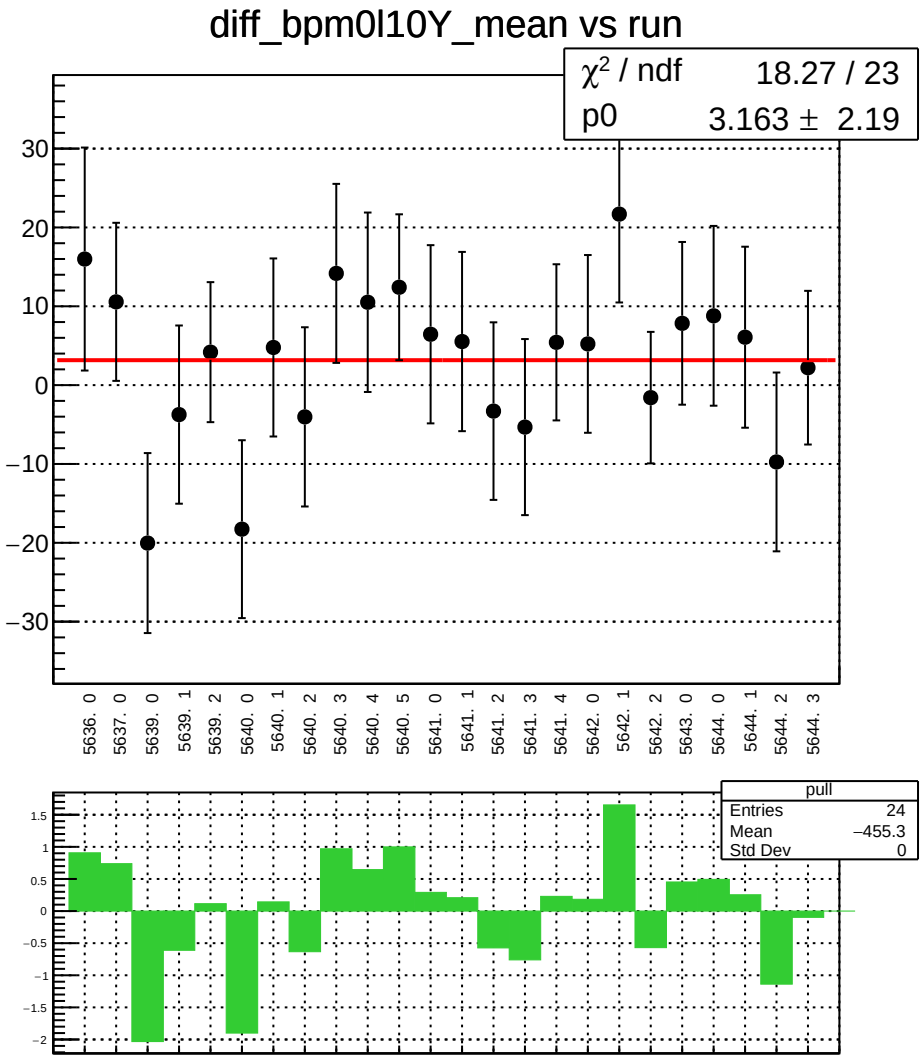

pull1D
Entries 24
Mean 0.02827
Std Dev 1.054
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

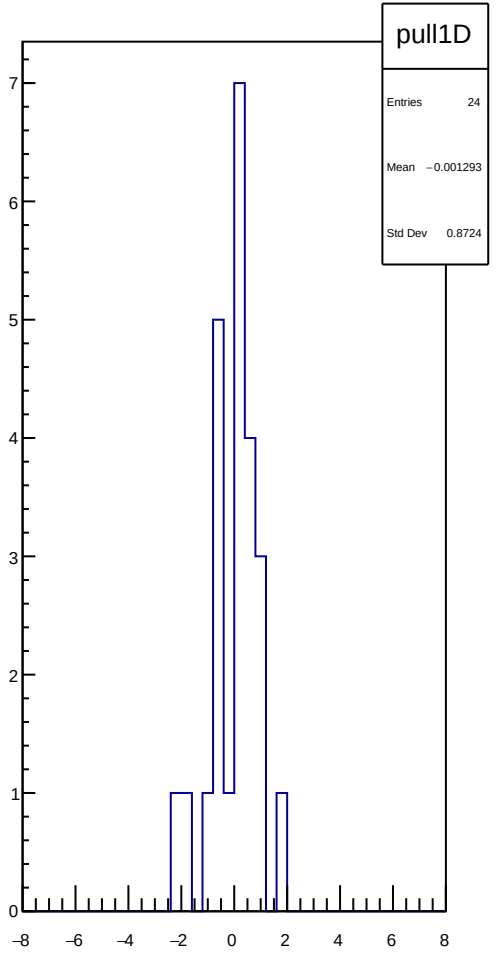

diff_bpm0l09Y_rms vs run
χ² / ndf 202.3 / 23
p0 1227 ± 1.767
1280
1260
1240
1220
1200
1180
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

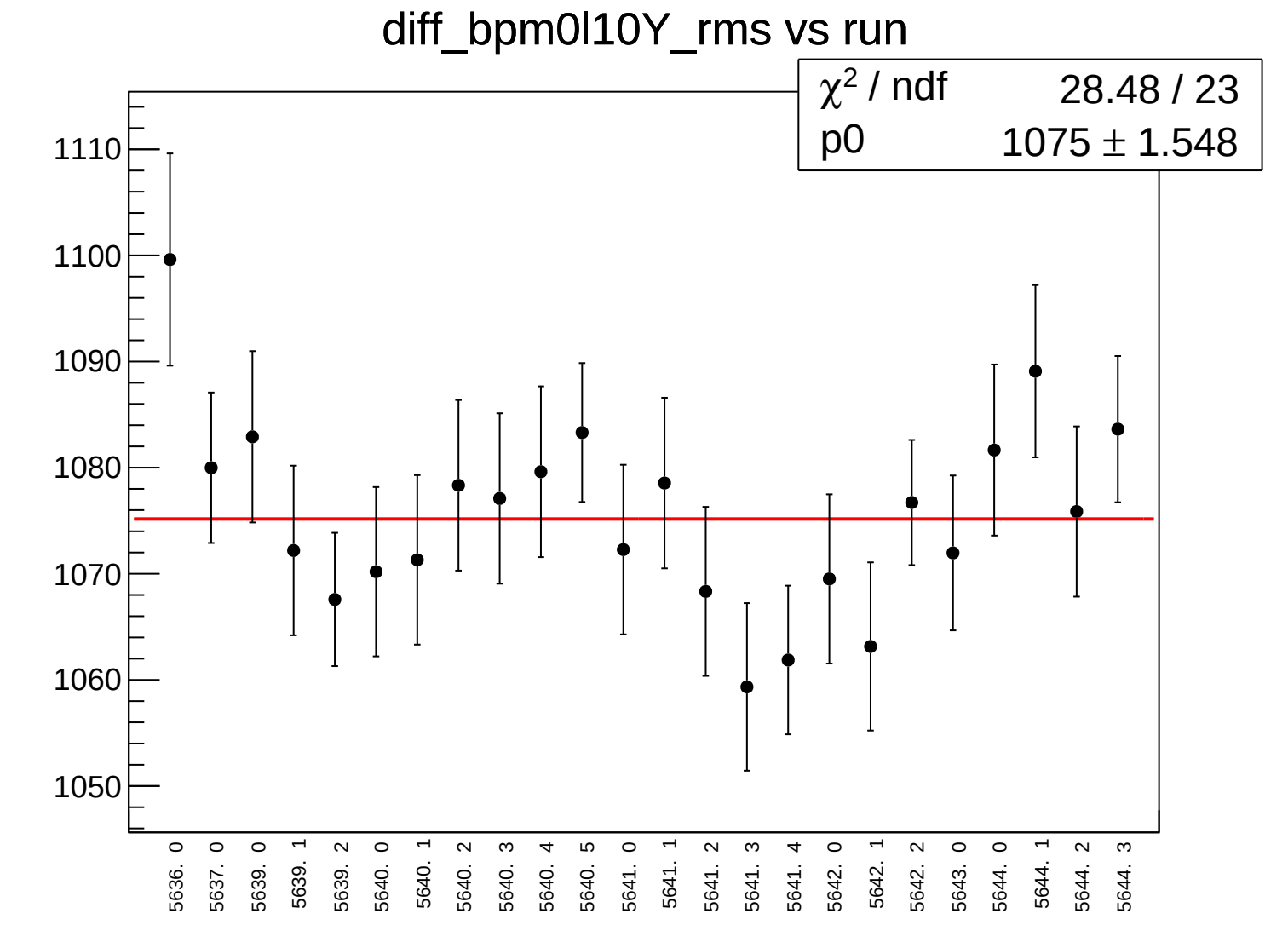

diff_bpm0l10X_mean vs run
χ² / ndf 20.37 / 23
p0 −32.38 ± 15.43
200
100
0
−100
−200
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −377.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

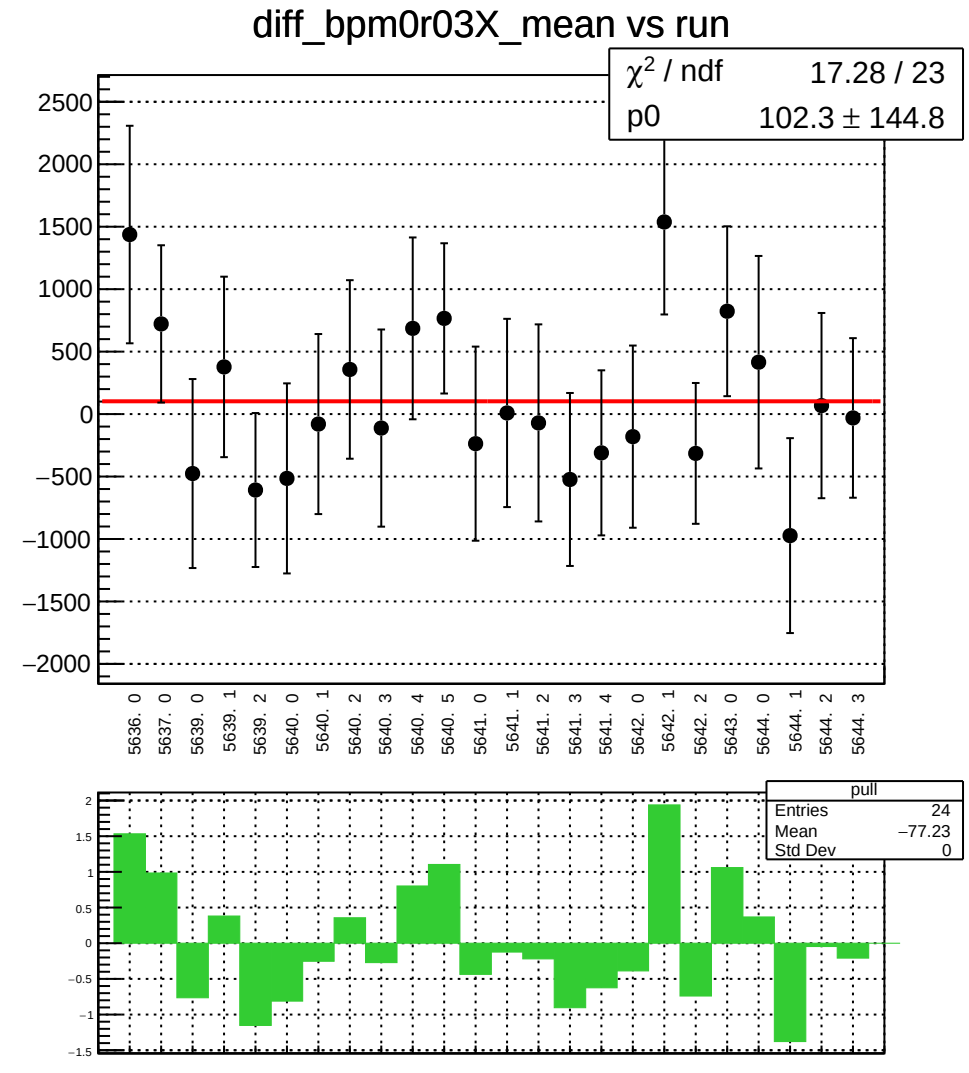

pull1D
Entries 24
Mean 0.01024
Std Dev 0.9213
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

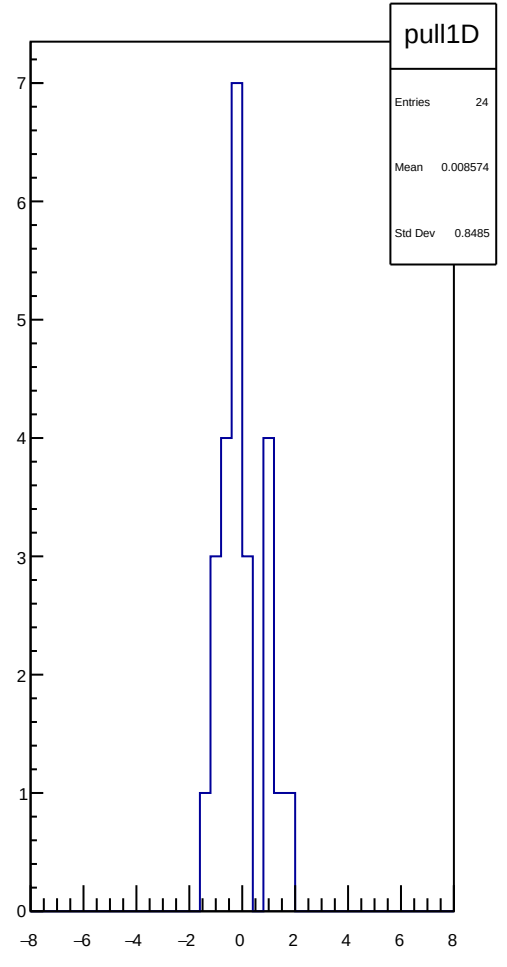

diff_bpm0l10X_rms vs run
χ² / ndf 2802 / 23
p0 7553 ± 10.91
9000
8500
8000
7500
7000
6500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

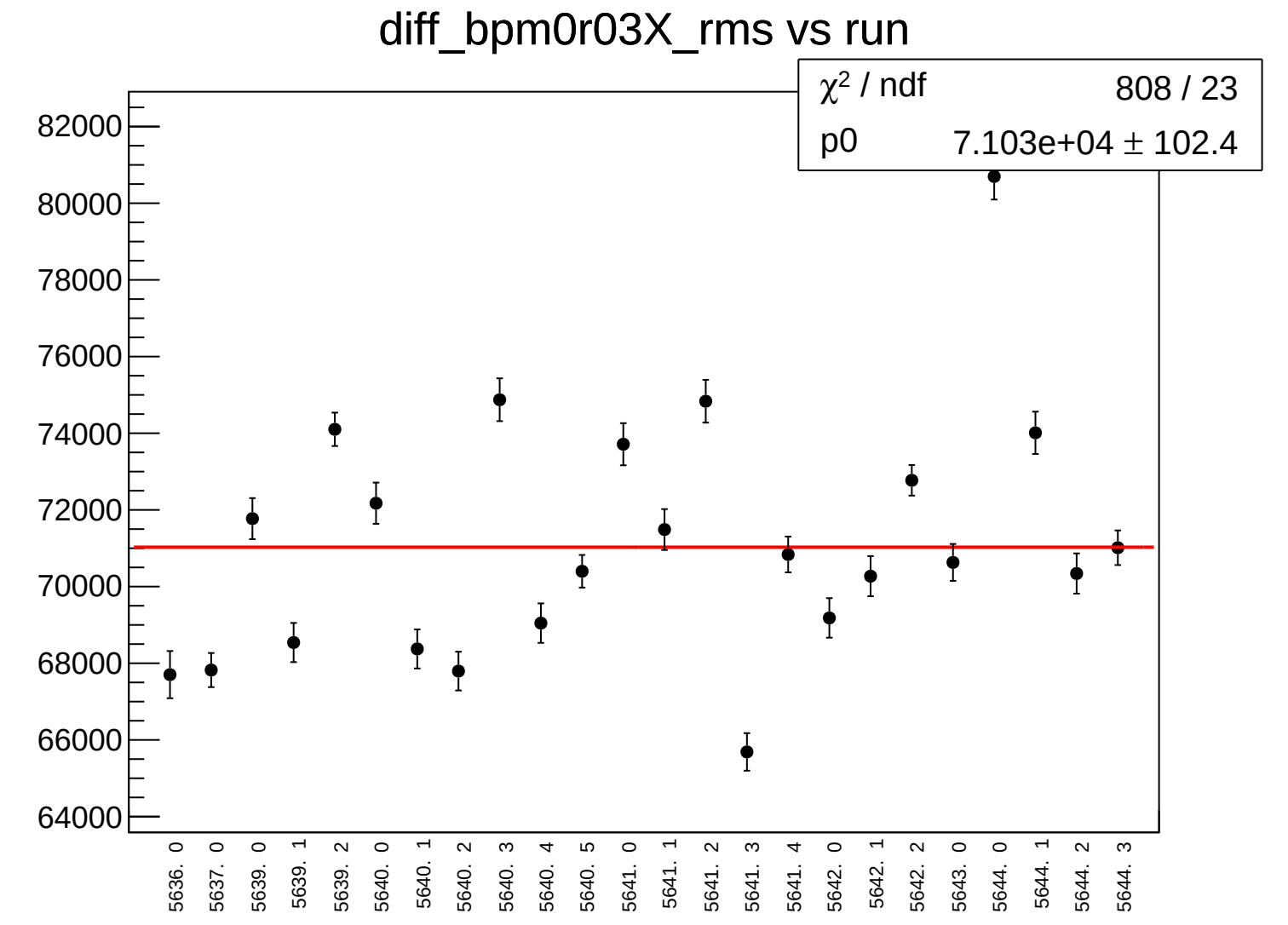

diff_bpm0l10Y_mean vs run
χ² / ndf 18.27 / 23
p0 3.163 ± 2.19
30
20
10
0
−10
−20
−30
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −455.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

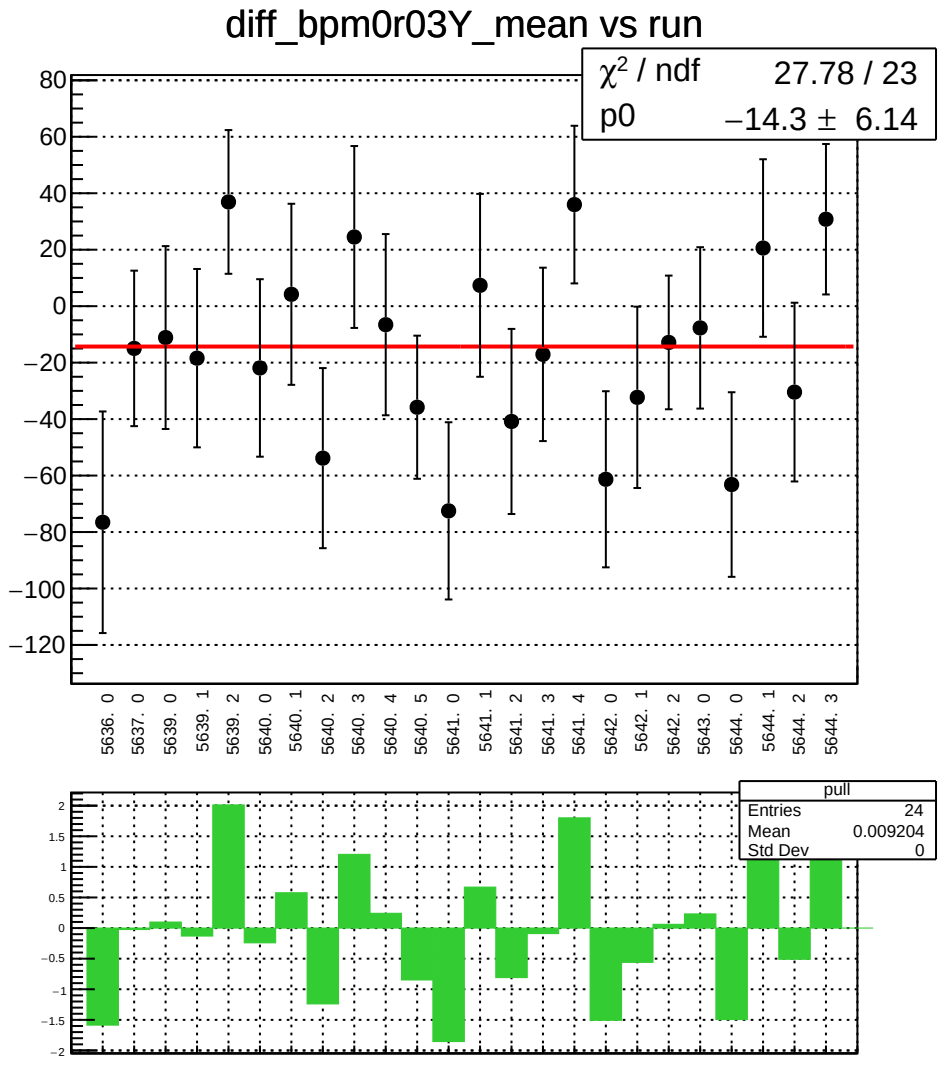

pull1D
Entries 24
Mean −0.001293
Std Dev 0.8724
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

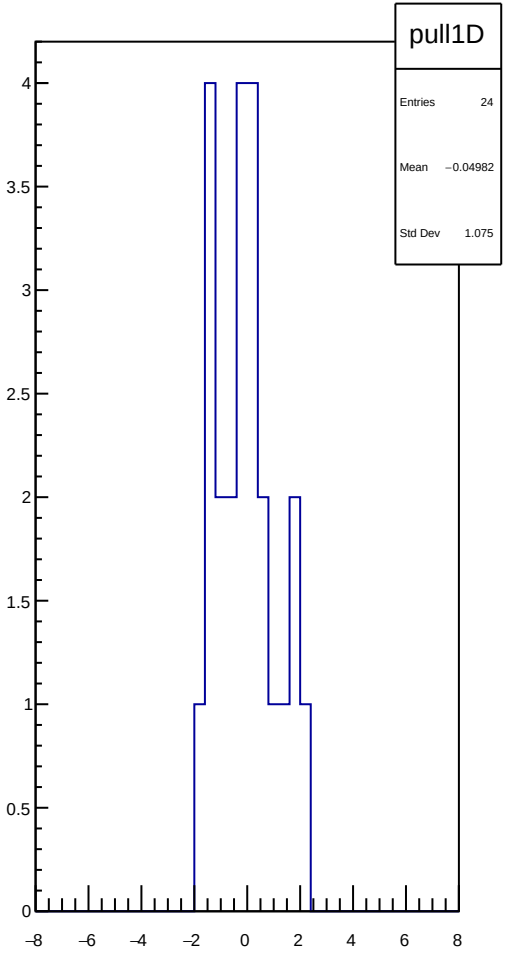

diff_bpm0l10Y_rms vs run
χ² / ndf 28.48 / 23
p0 1075 ± 1.548
1110
1100
1090
1080
1070
1060
1050
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

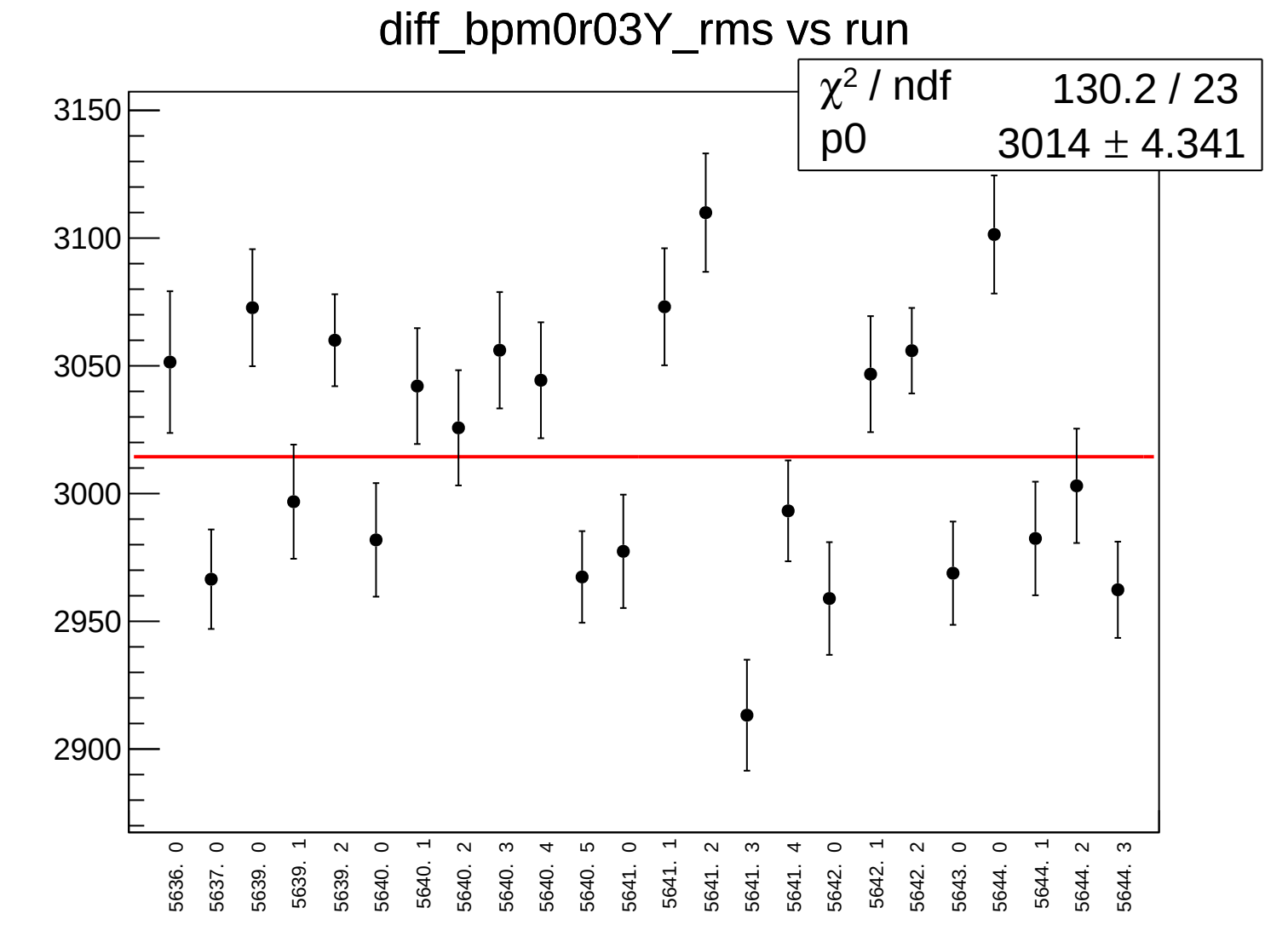

diff_bpm0r03X_mean vs run
χ² / ndf 17.28 / 23
p0 102.3 ± 144.8
2500
2000
1500
1000
500
0
−500
−1000
−1500
−2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −77.23
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

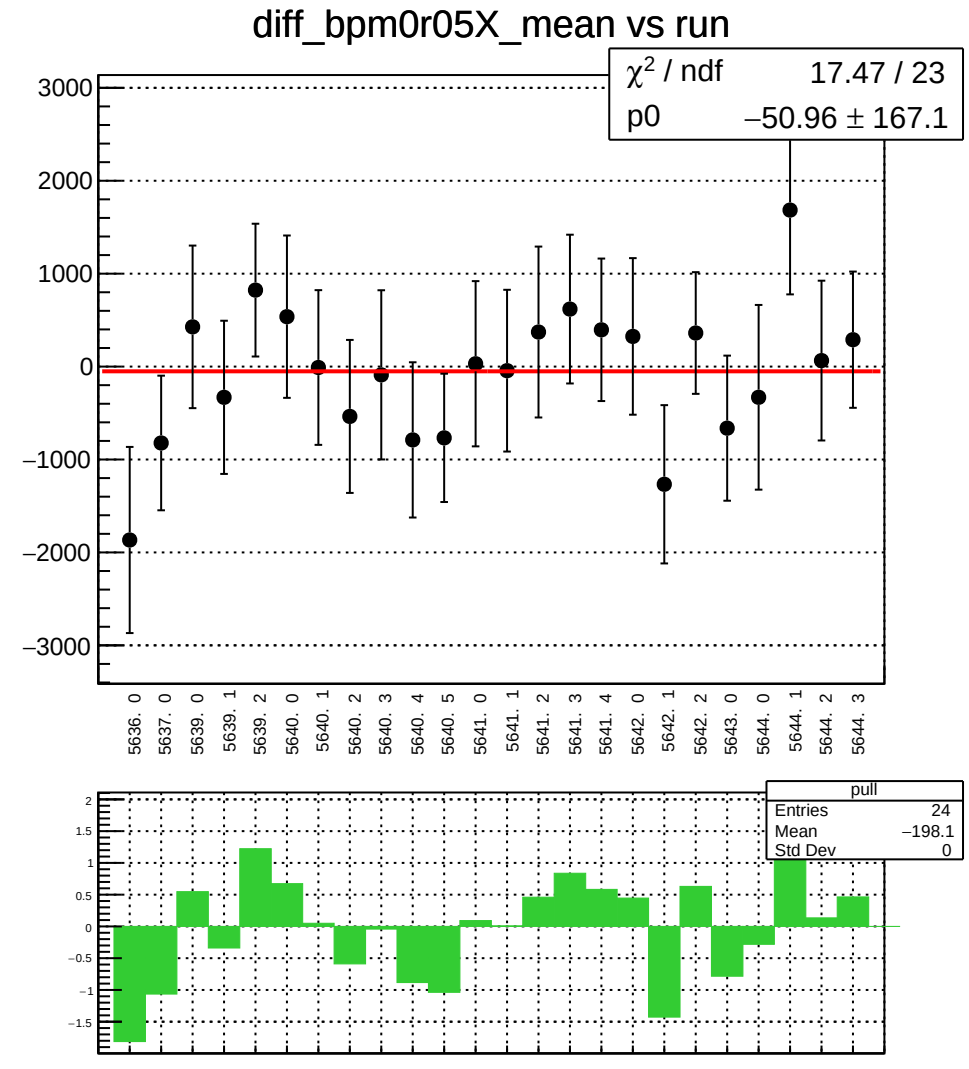

pull1D
Entries 24
Mean 0.008574
Std Dev 0.8485
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

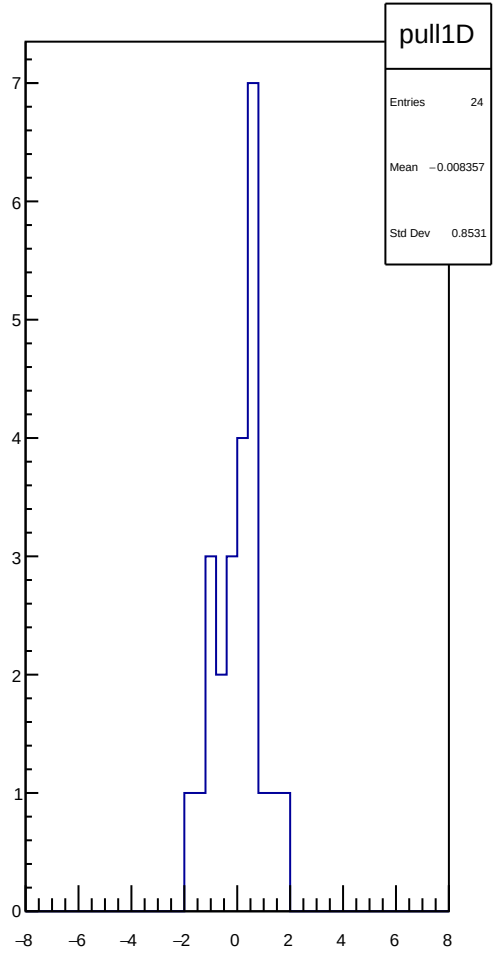

diff_bpm0r03X_rms vs run
χ² / ndf 808 / 23
p0 7.103e+04 ± 102.4
82000
80000
78000
76000
74000
72000
70000
68000
66000
64000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

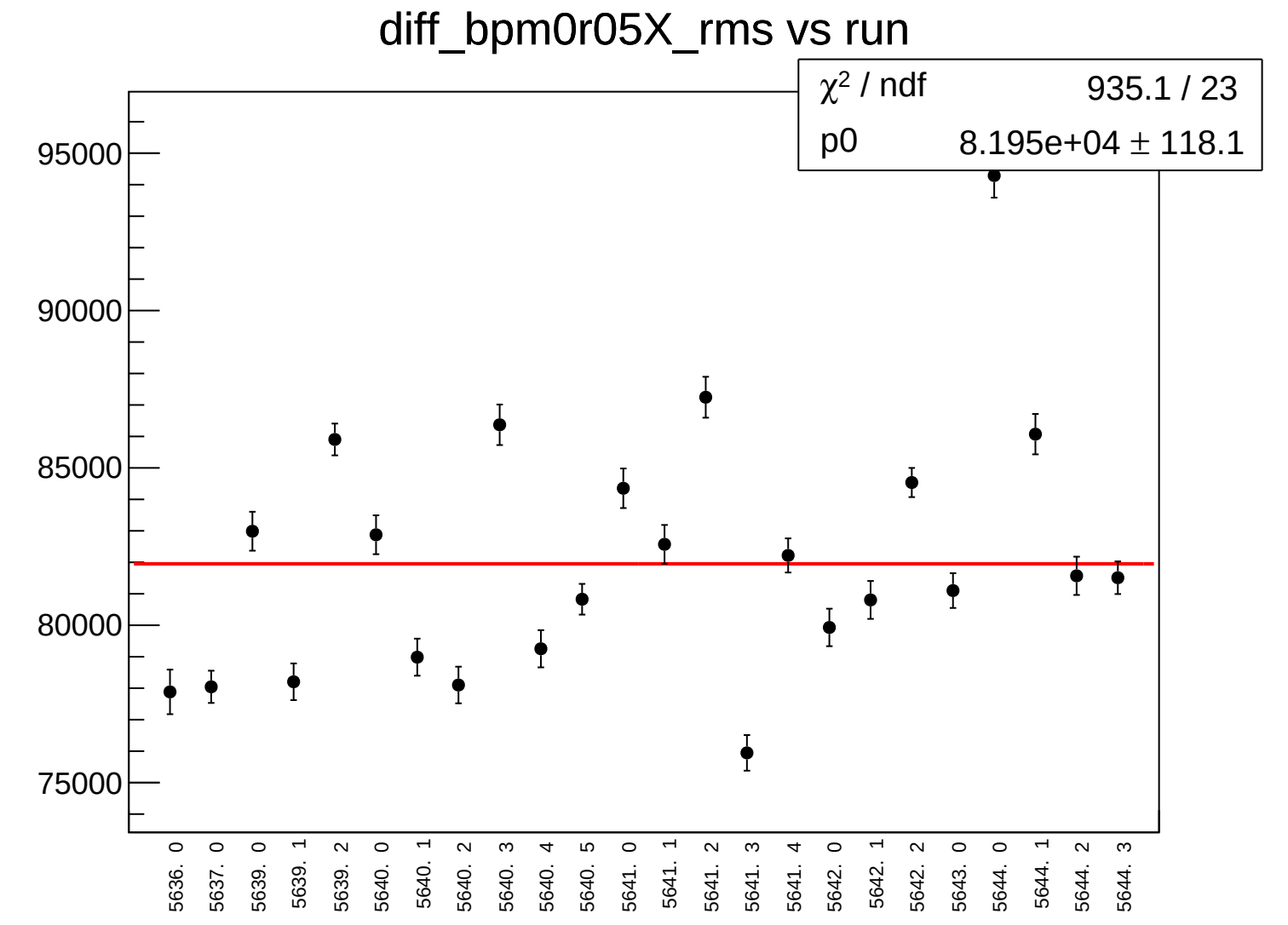

diff_bpm0r03Y_mean vs run
χ² / ndf 27.78 / 23
p0 −14.3 ± 6.14
80
60
40
20
0
−20
−40
−60
−80
−100
−120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 0.009204
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

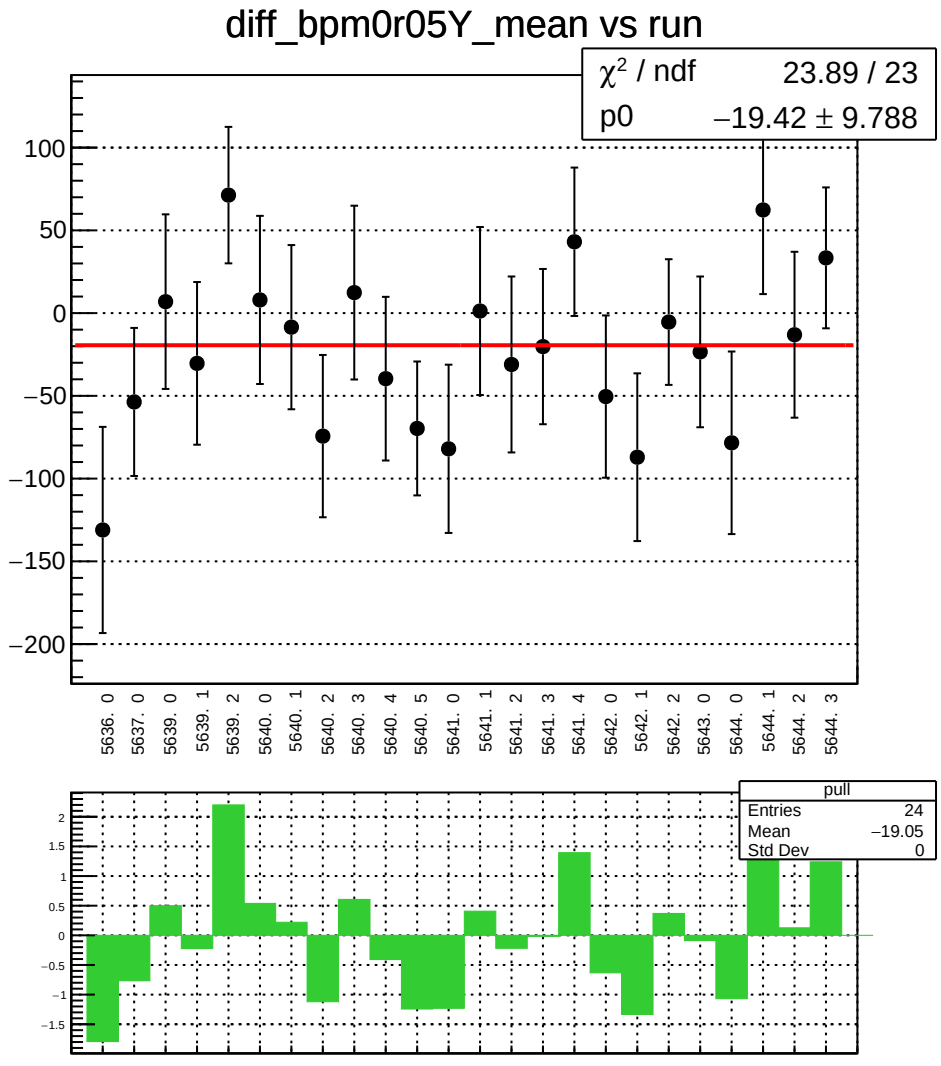

pull1D
Entries 24
Mean −0.04982
Std Dev 1.075
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

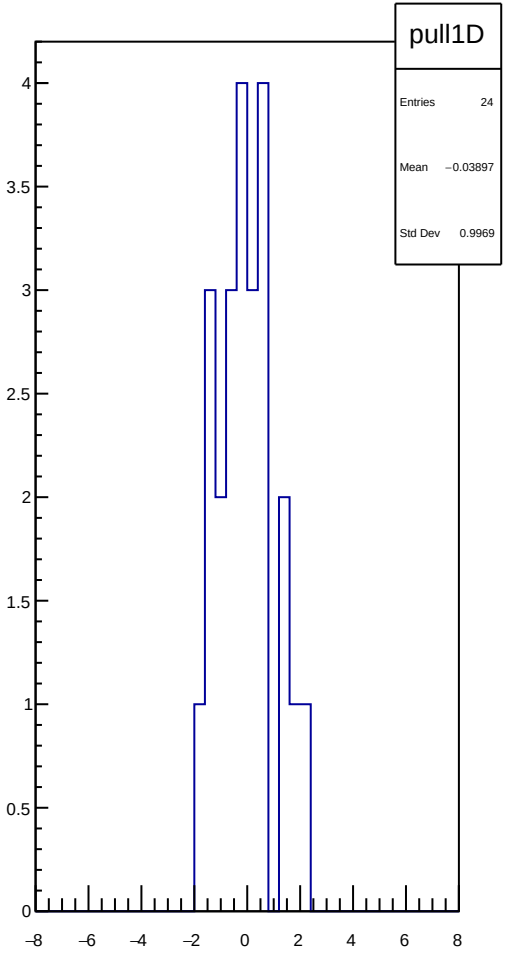

diff_bpm0r03Y_rms vs run
χ² / ndf 130.2 / 23
p0 3014 ± 4.341
3150
3100
3050
3000
2950
2900
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

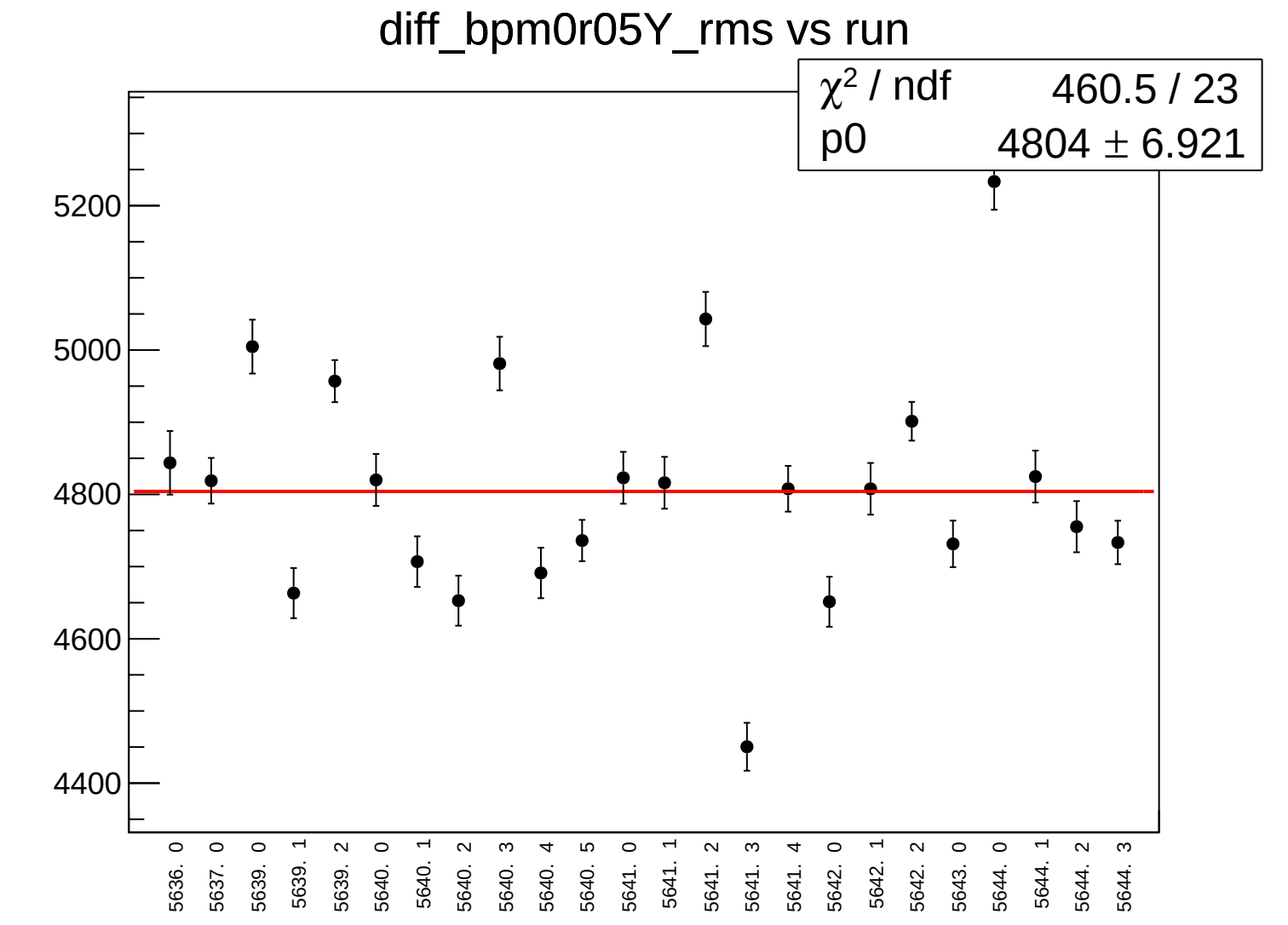

diff_bpm0r05X_mean vs run
χ² / ndf 17.47 / 23
p0 −50.96 ± 167.1
3000
2000
1000
0
−1000
−2000
−3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −198.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

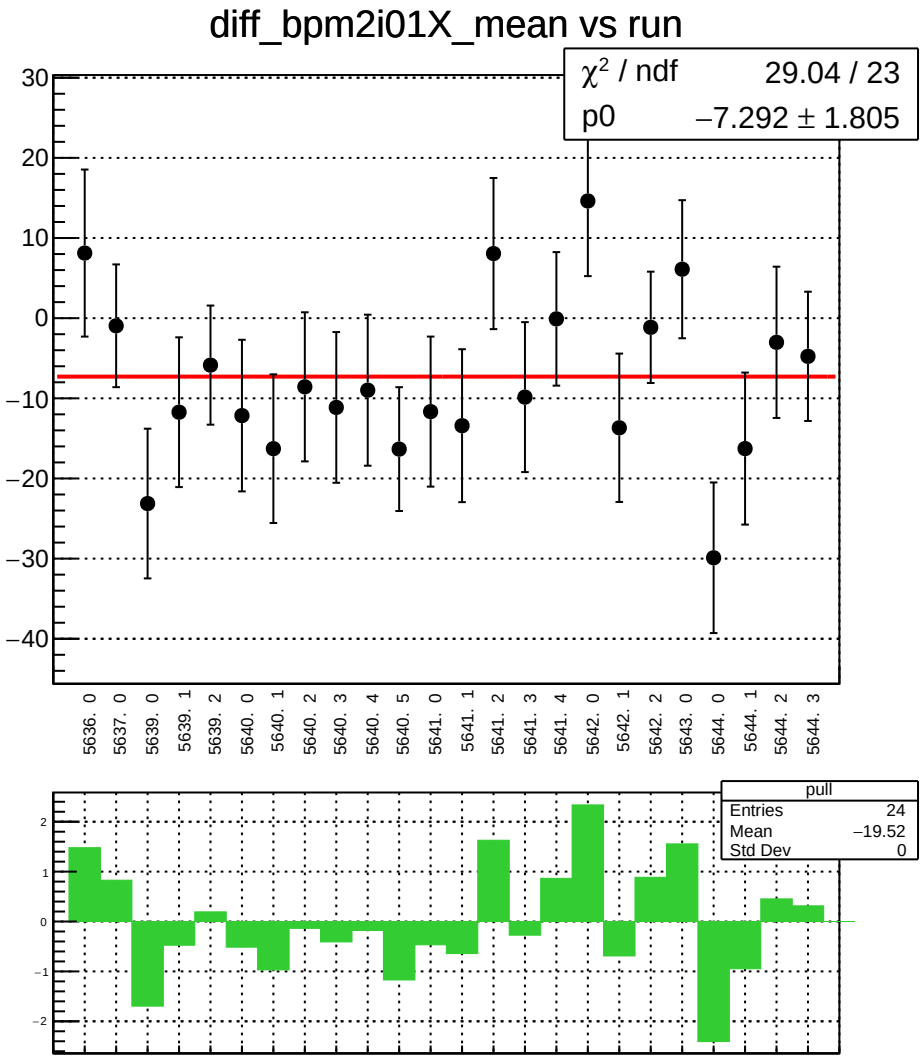

pull1D
Entries 24
Mean −0.008357
Std Dev 0.8531
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

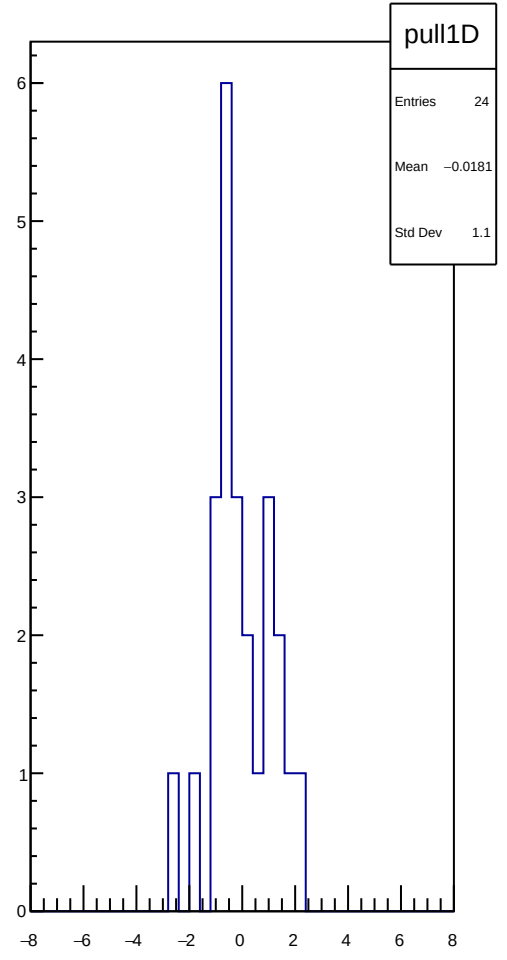

diff_bpm0r05X_rms vs run
χ² / ndf 935.1 / 23
p0 8.195e+04 ± 118.1
95000
90000
85000
80000
75000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

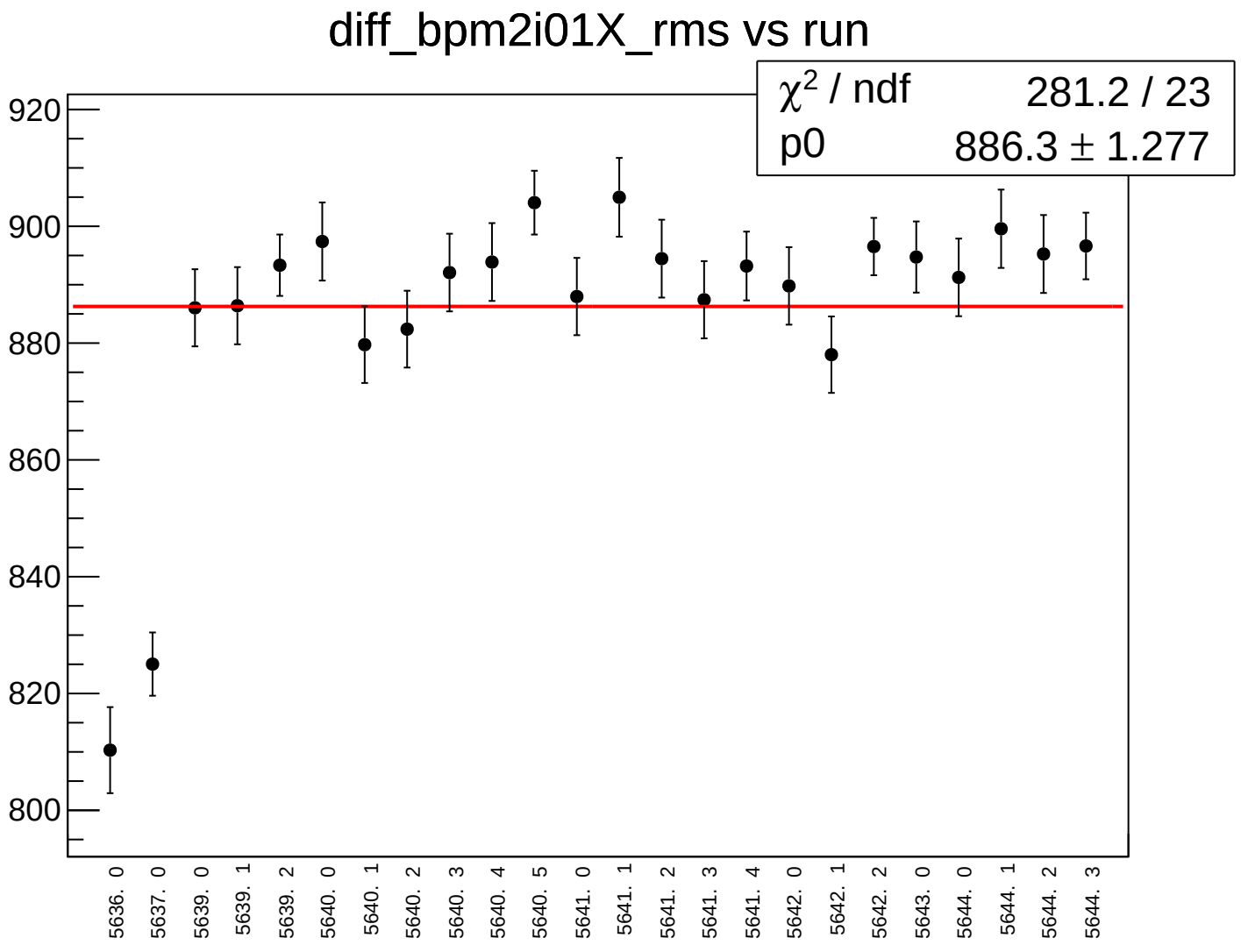

diff_bpm0r05Y_mean vs run
χ² / ndf 23.89 / 23
p0 −19.42 ± 9.788
100
50
0
−50
−100
−150
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −19.05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

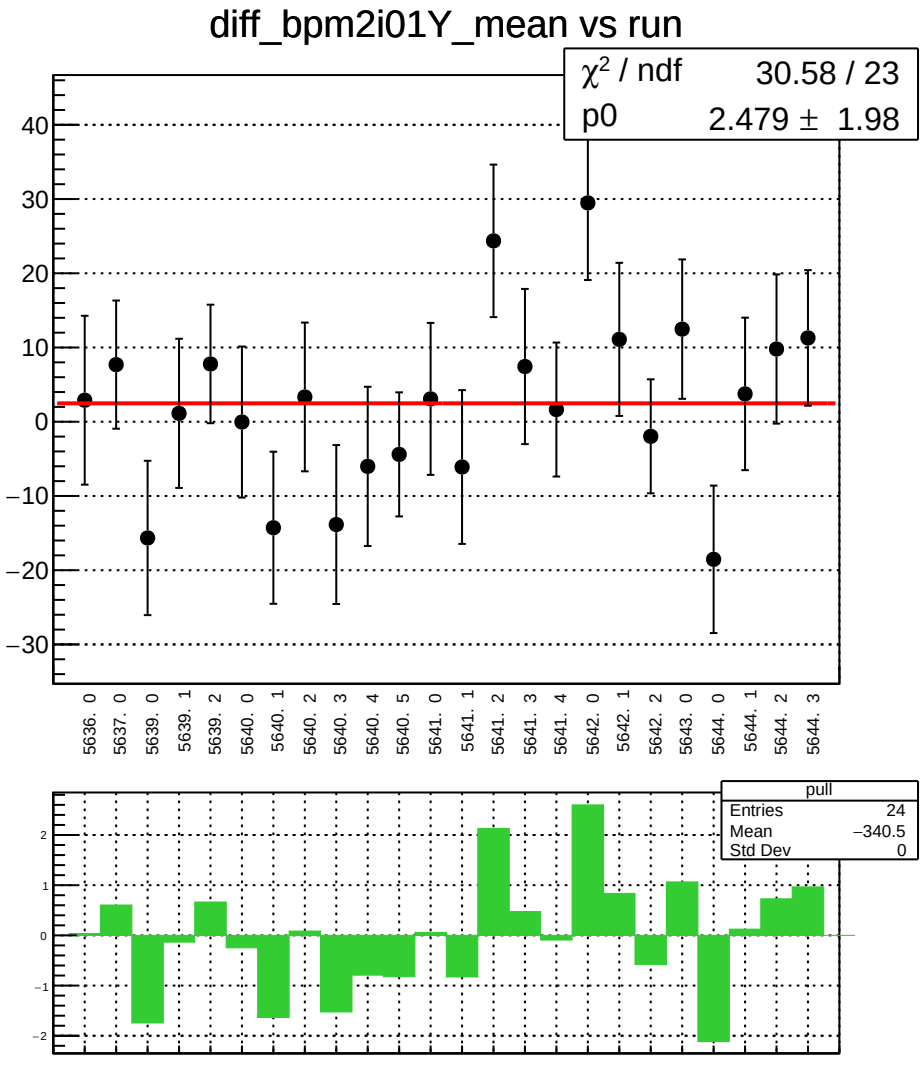

pull1D
Entries 24
Mean −0.03897
Std Dev 0.9969
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

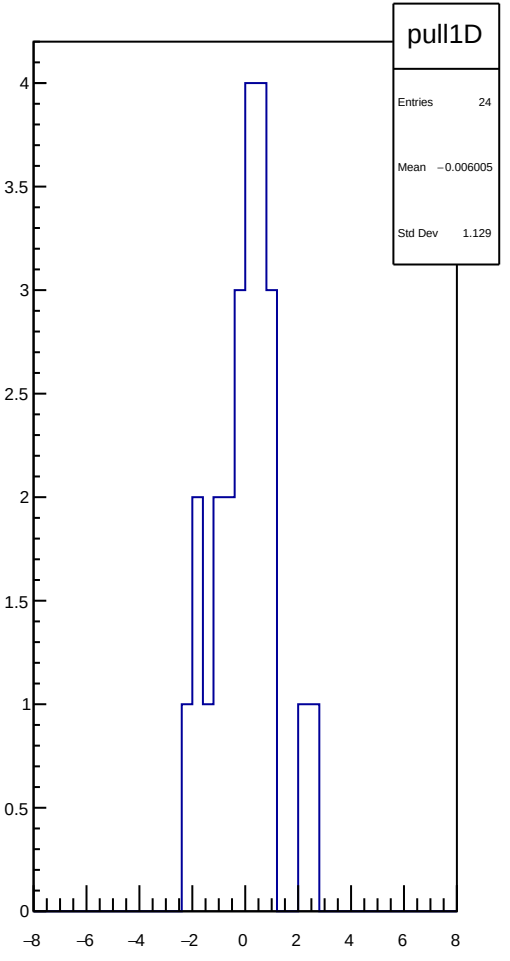

diff_bpm0r05Y_rms vs run
χ² / ndf 460.5 / 23
p0 4804 ± 6.921
5200
5000
4800
4600
4400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

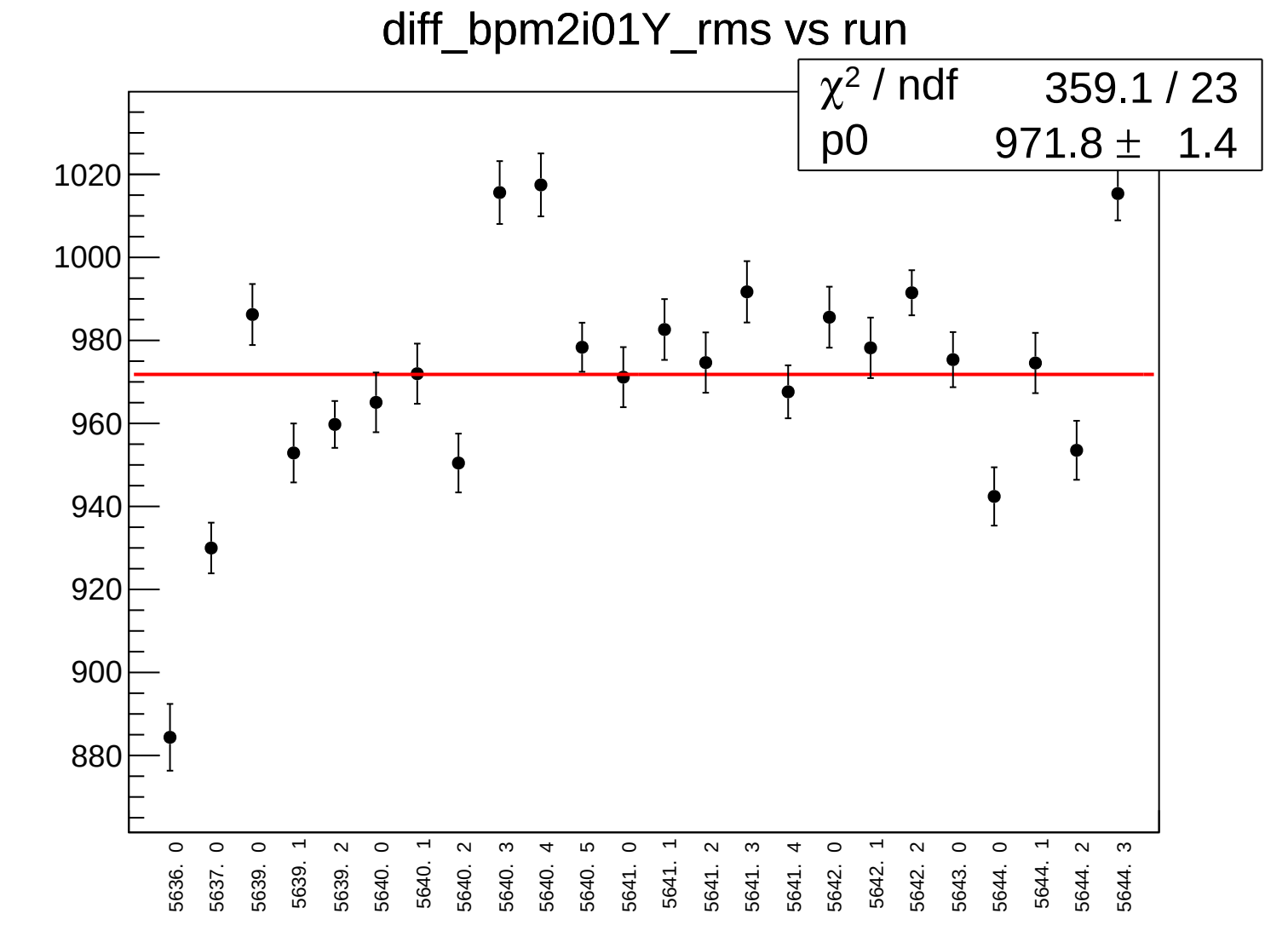

diff_bpm2i01X_mean vs run
χ² / ndf 29.04 / 23
p0 −7.292 ± 1.805
30
20
10
0
−10
−20
−30
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −19.52
Std Dev 0
2
1
0
−1
−2

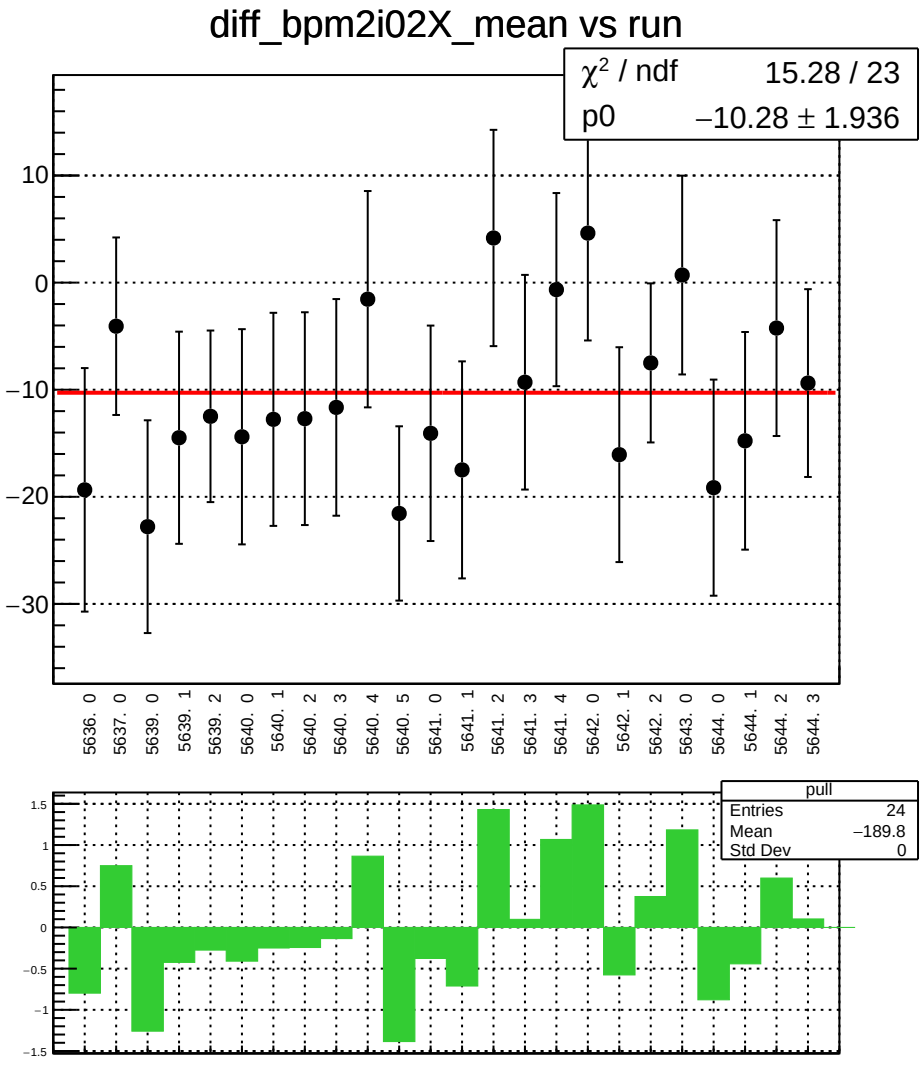

pull1D
Entries 24
Mean −0.0181
Std Dev 1.1
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

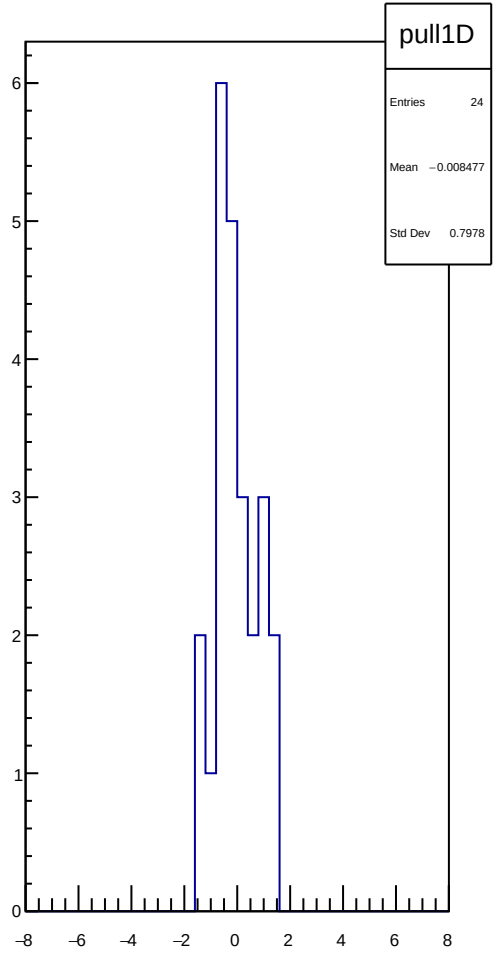

diff_bpm2i01X_rms vs run
χ² / ndf 281.2 / 23
p0 886.3 ± 1.277
920
900
880
860
840
820
800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

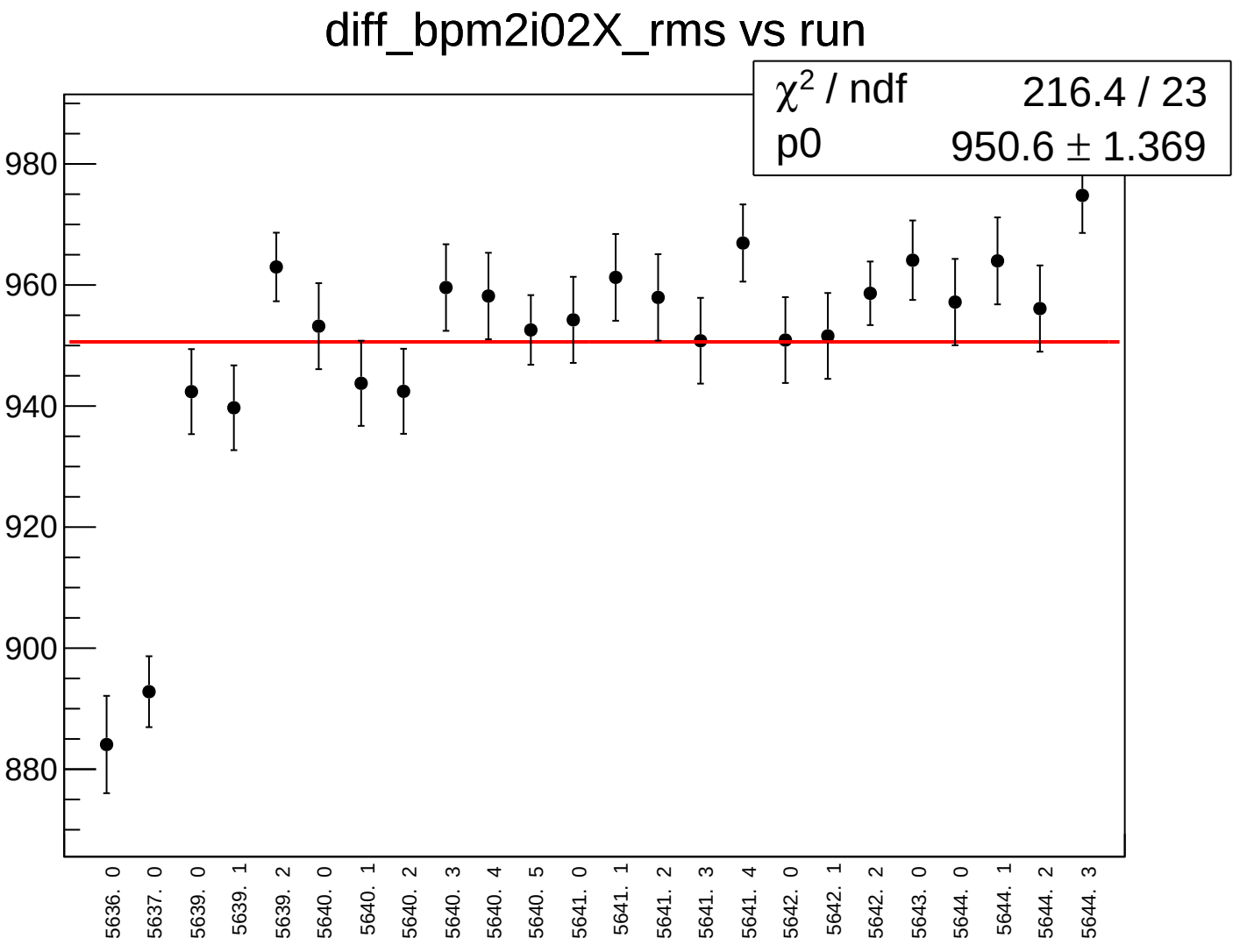

diff_bpm2i01Y_mean vs run
χ² / ndf 30.58 / 23
p0 2.479 ± 1.98
40
30
20
10
0
−10
−20
−30
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −340.5
Std Dev 0
2
1
0
−1
−2

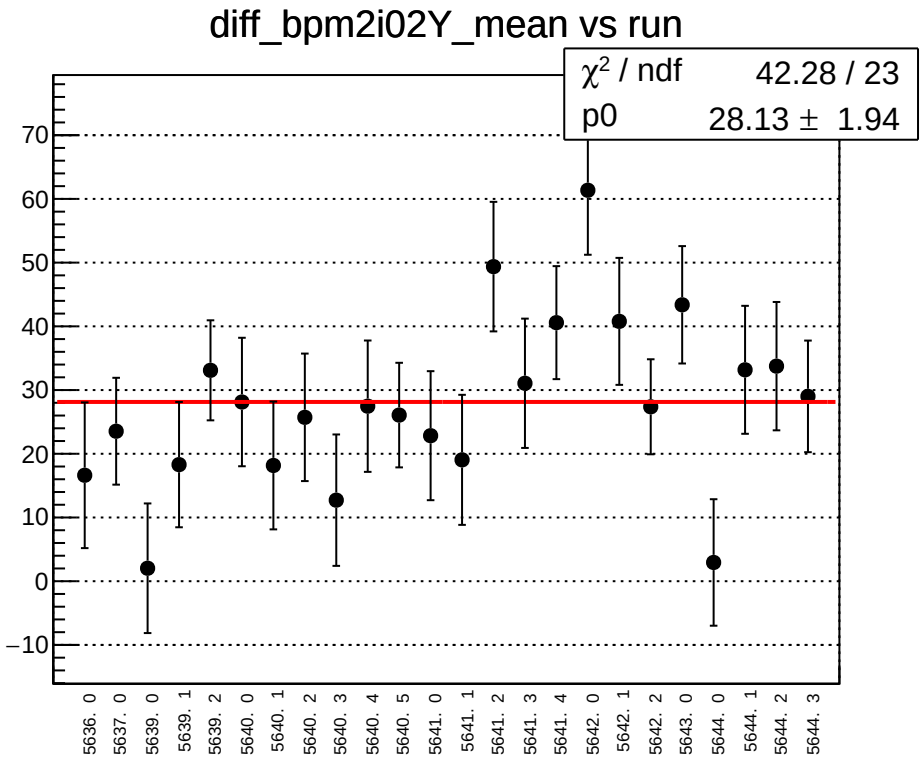

pull1D
Entries 24
Mean −0.006005
Std Dev 1.129
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

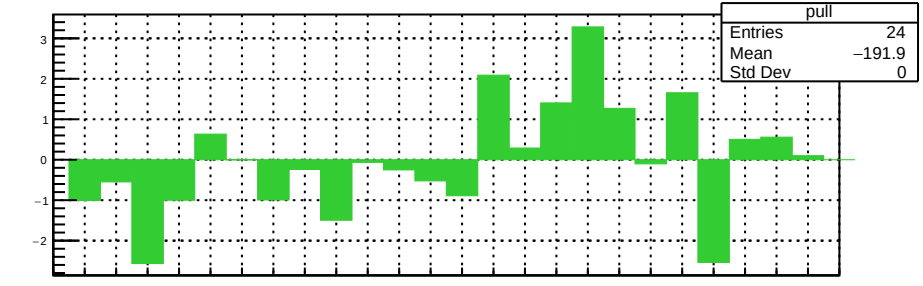

diff_bpm2i01Y_rms vs run
χ² / ndf 359.1 / 23
p0 971.8 ± 1.4
1020
1000
980
960
940
920
900
880
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

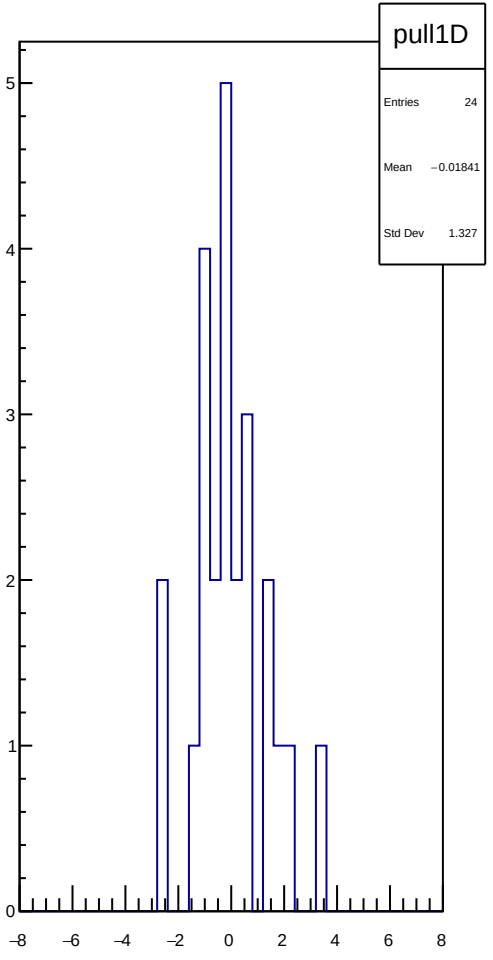

diff_bpm2i02X_mean vs run
χ² / ndf 15.28 / 23
p0 −10.28 ± 1.936
10
0
−10
−20
−30
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −189.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

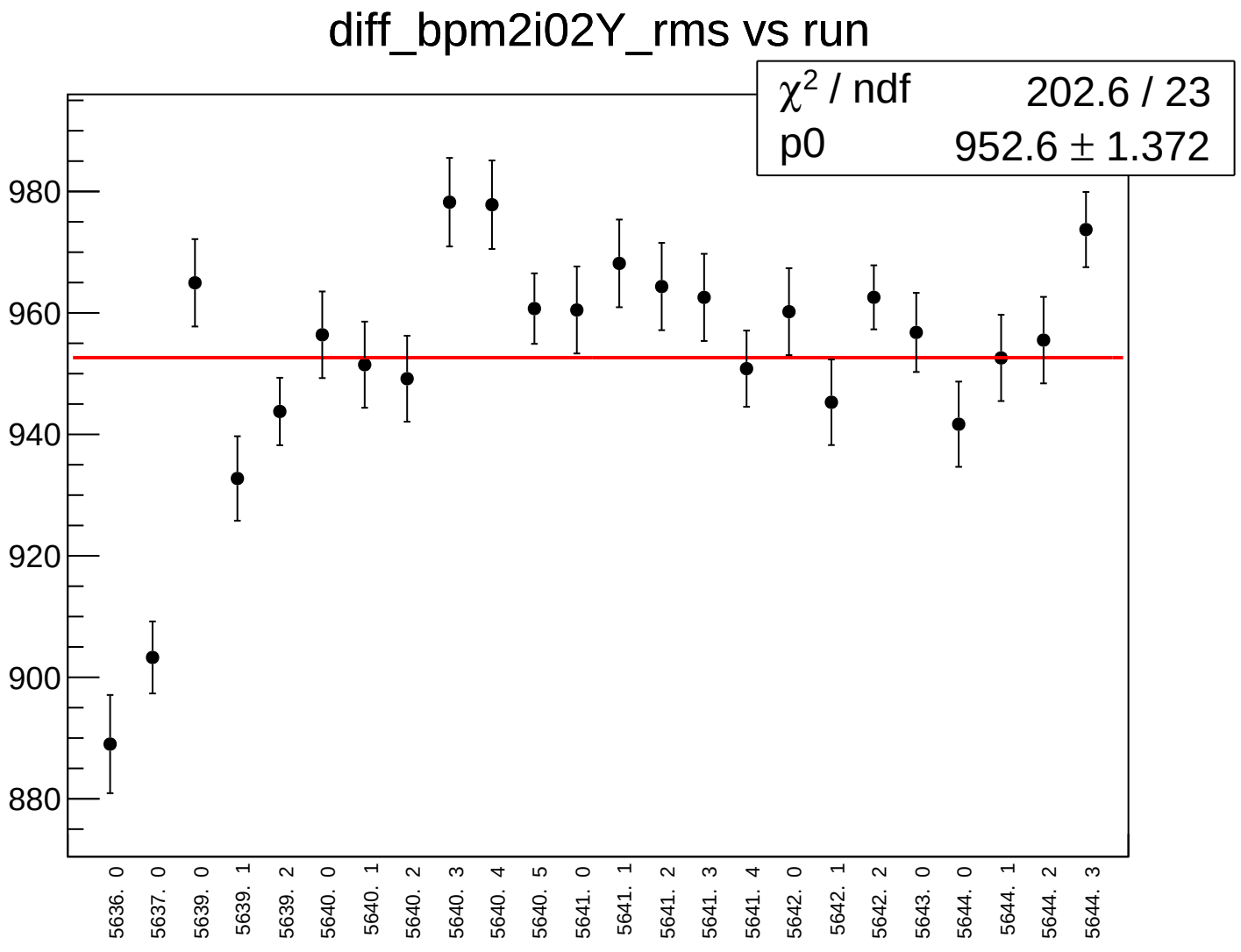

pull1D
Entries 24
Mean −0.008477
Std Dev 0.7978
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

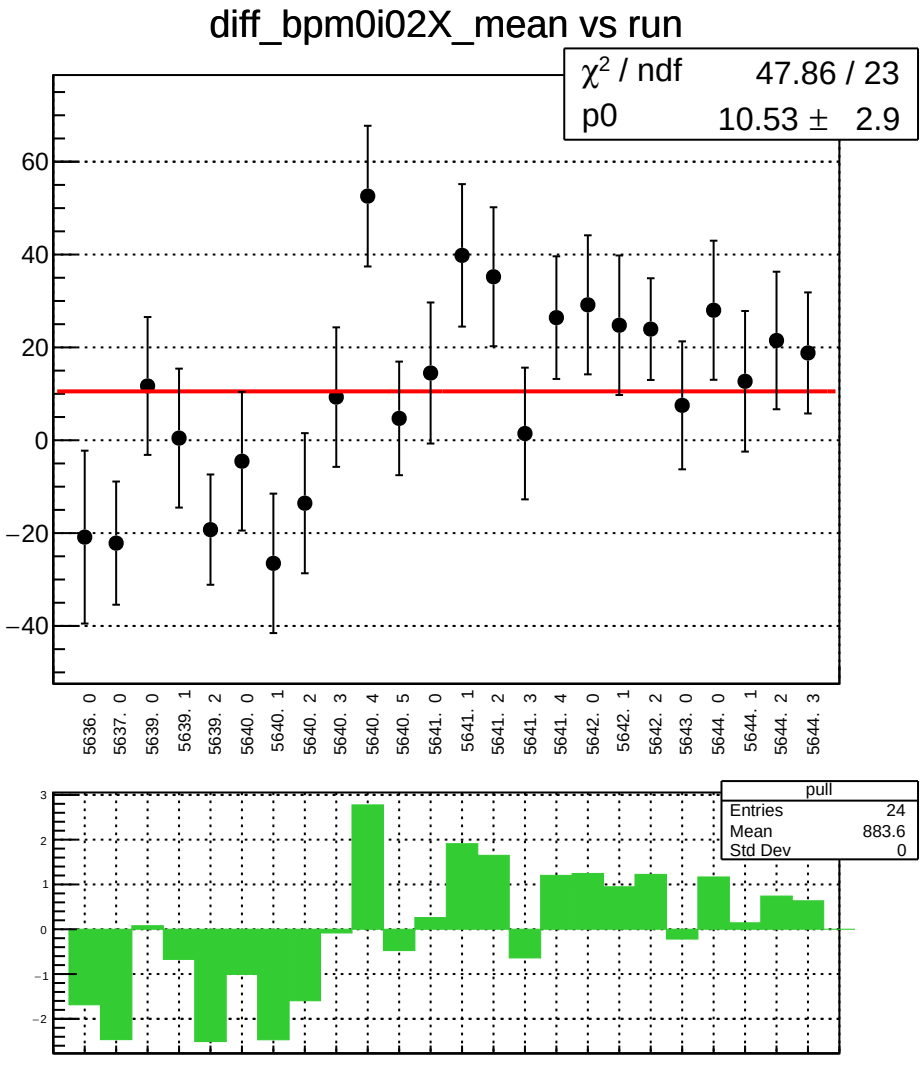

diff_bpm2i02X_rms vs run
χ² / ndf 216.4 / 23
p0 950.6 ± 1.369
980
960
940
920
900
880
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

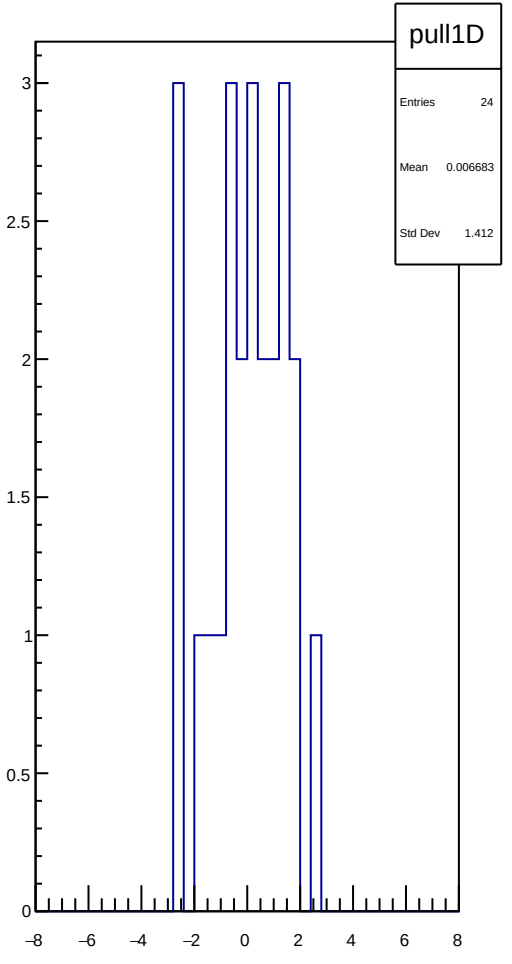

diff_bpm2i02Y_mean vs run
χ² / ndf 42.28 / 23
p0 28.13 ± 1.94
70
60
50
40
30
20
10
0
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

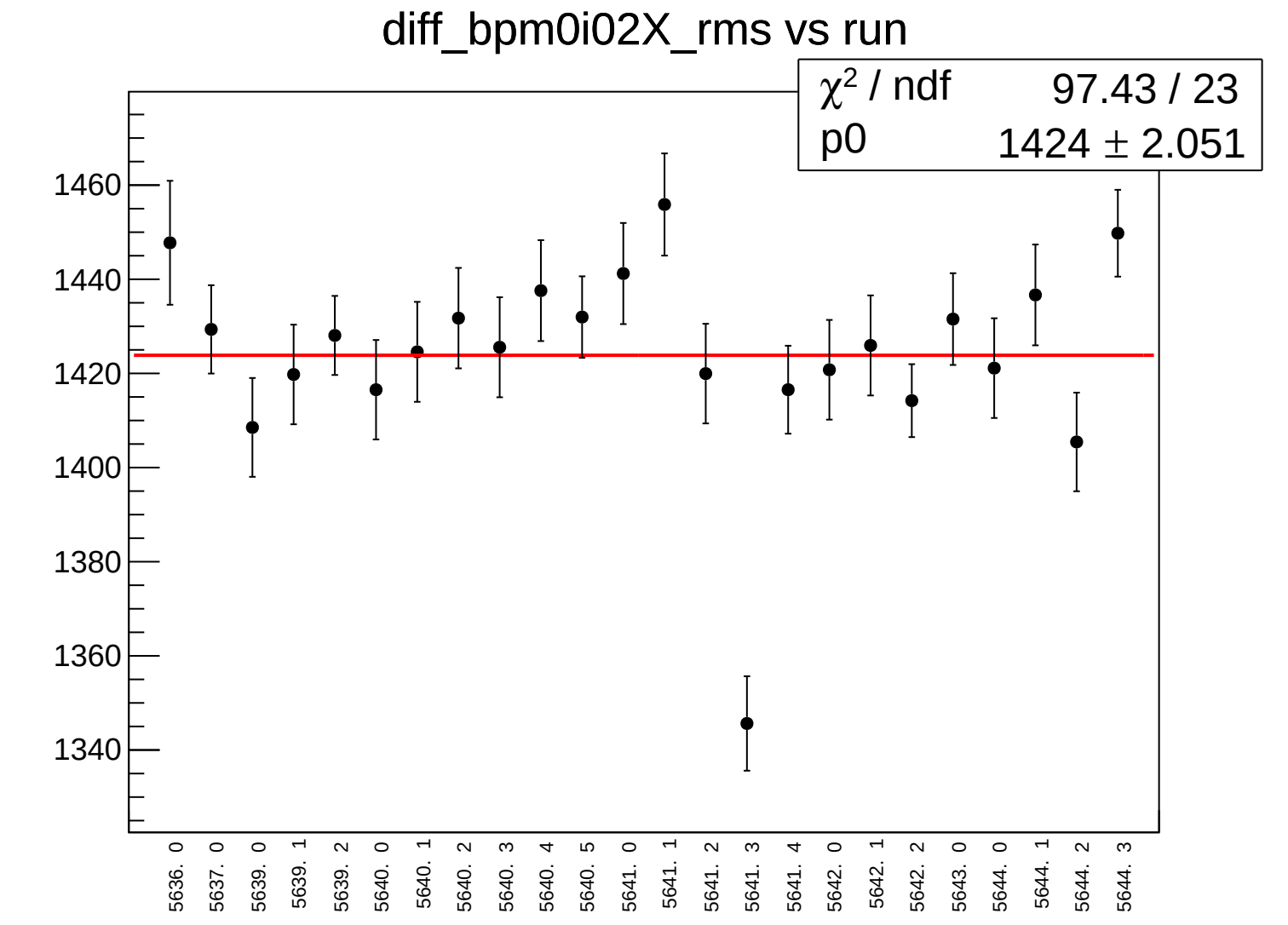

pull
Entries 24
Mean −191.9
Std Dev 0
3
2
1
0
−1
−2

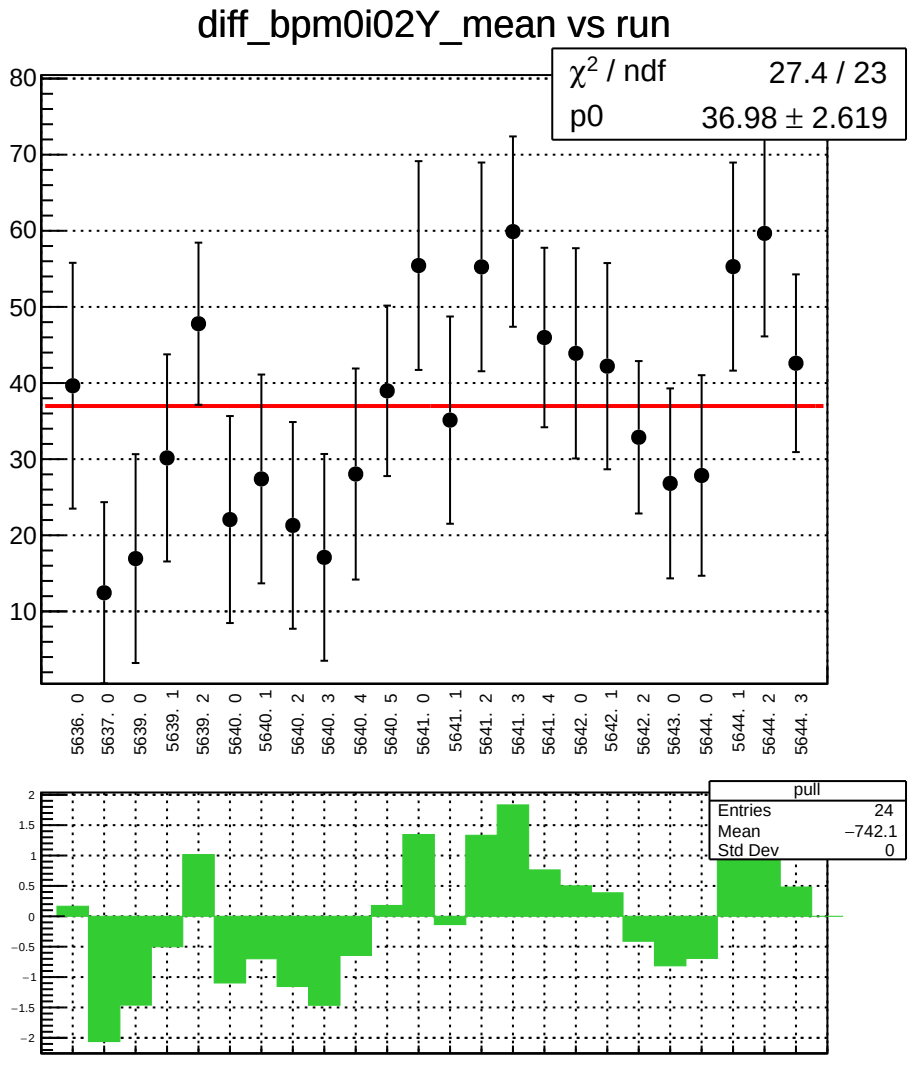

pull1D
Entries 24
Mean −0.01841
Std Dev 1.327
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

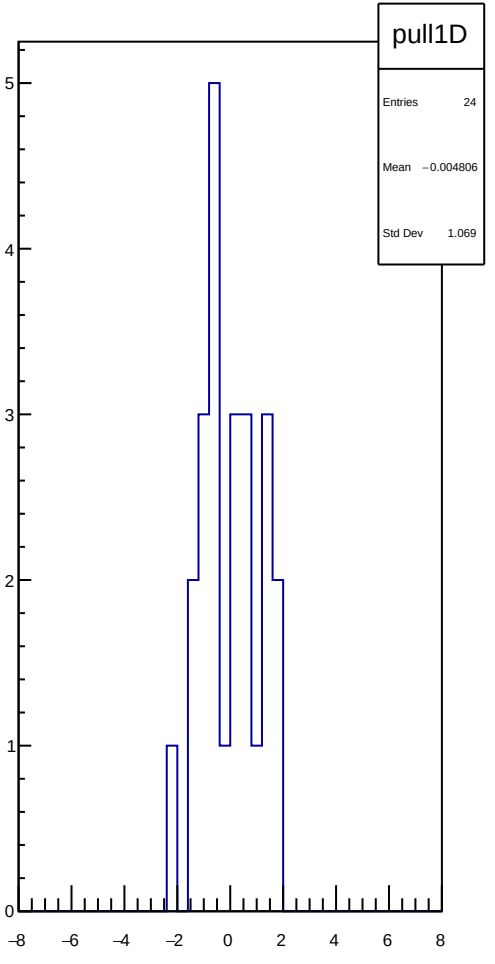

diff_bpm2i02Y_rms vs run
χ² / ndf 202.6 / 23
p0 952.6 ± 1.372
980
960
940
920
900
880
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

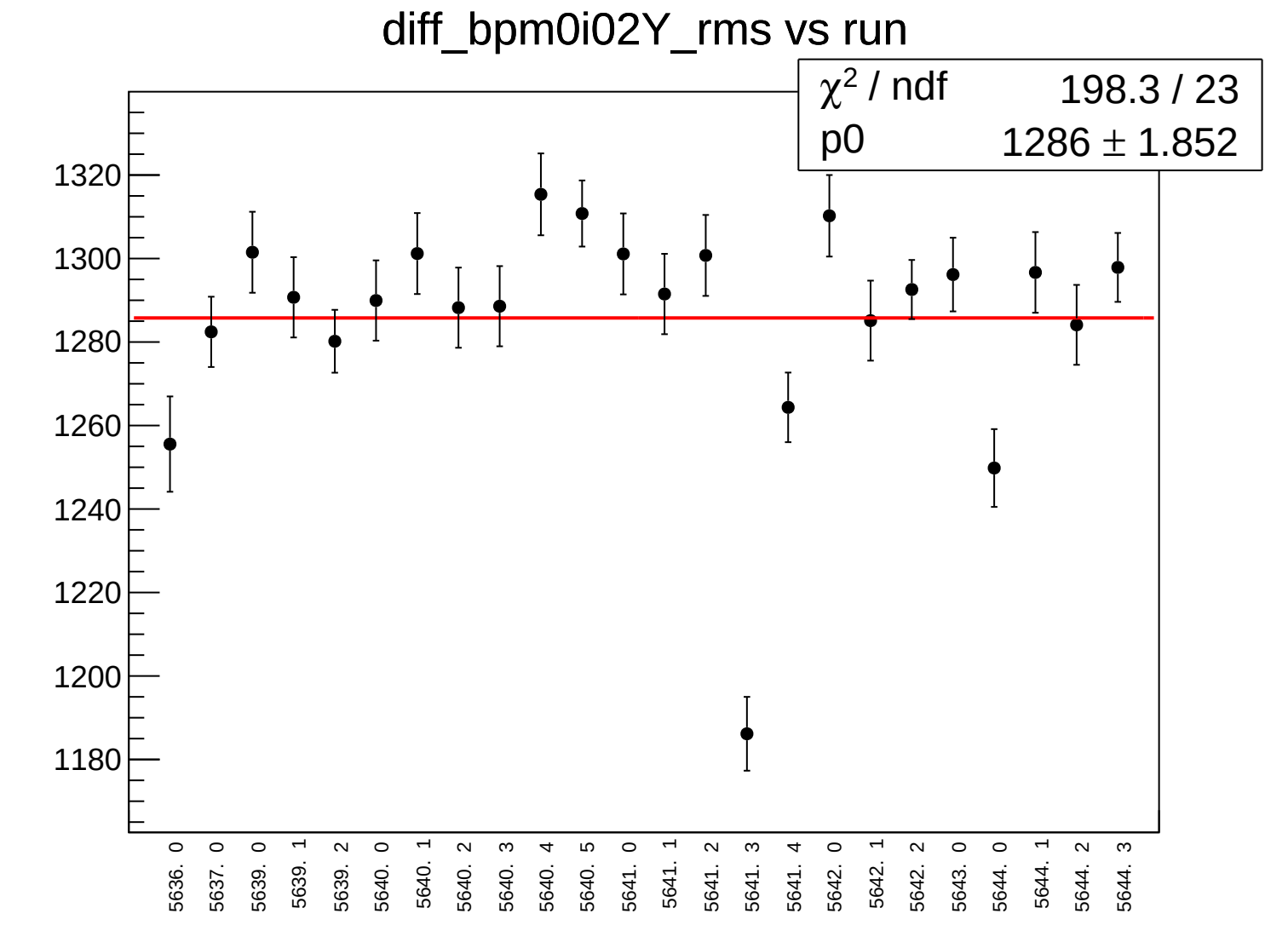

diff_bpm0i02X_mean vs run
χ² / ndf 47.86 / 23
p0 10.53 ± 2.9
60
40
20
0
−20
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 883.6
Std Dev 0
3
2
1
0
−1
−2

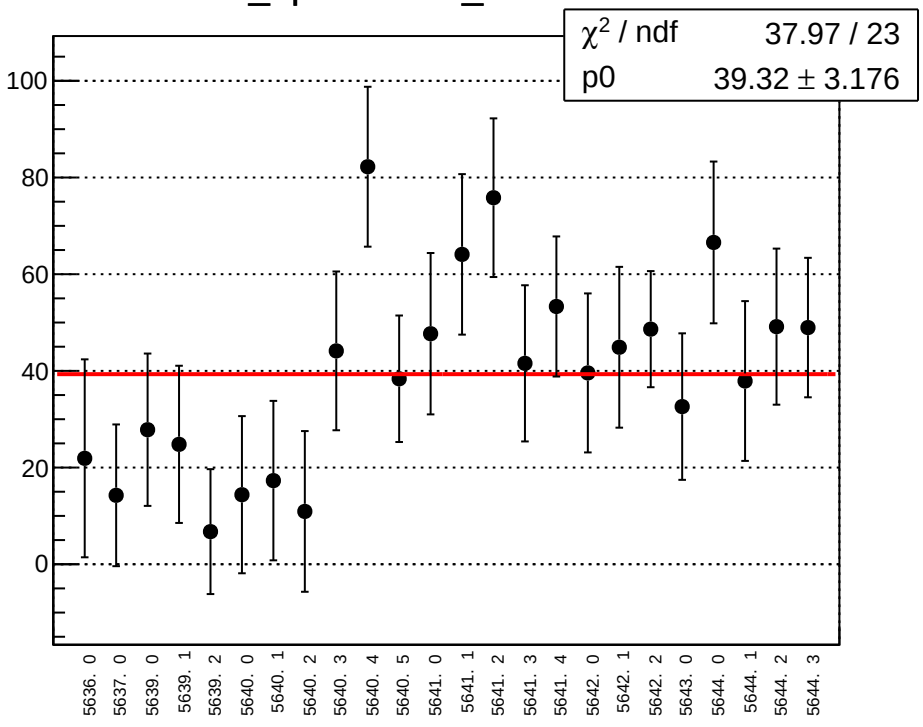

pull1D
Entries 24
Mean 0.006683
Std Dev 1.412
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

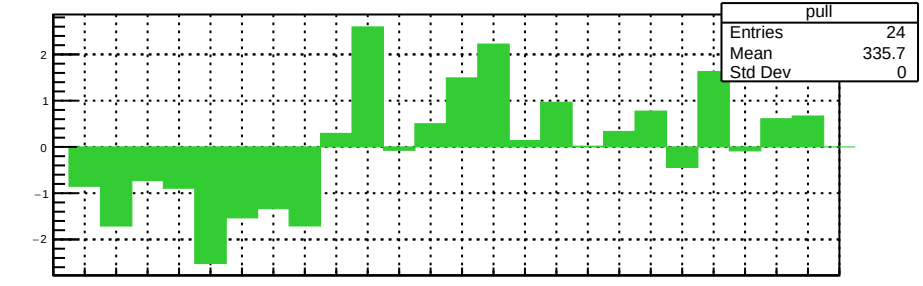

diff_bpm0i02X_rms vs run
χ² / ndf 97.43 / 23
p0 1424 ± 2.051
1460
1440
1420
1400
1380
1360
1340
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

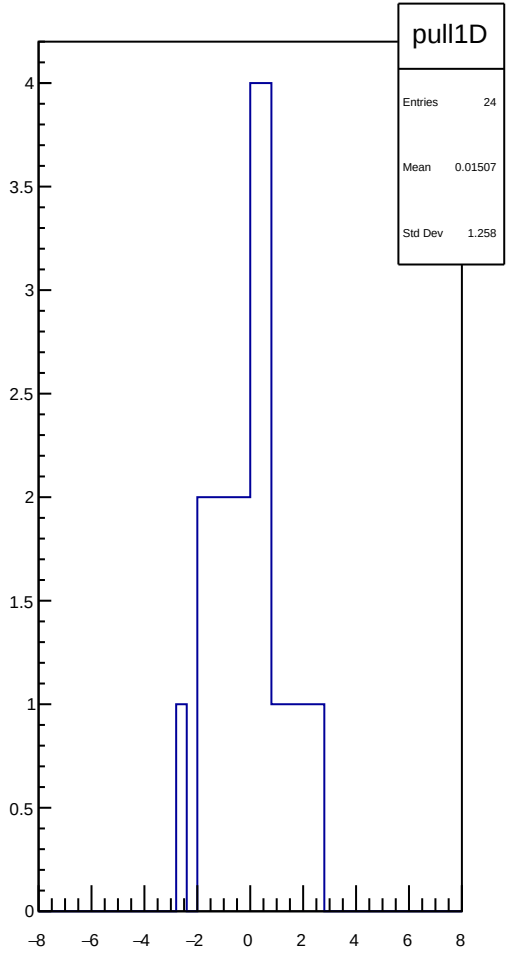

diff_bpm0i02Y_mean vs run
χ² / ndf 27.4 / 23
p0 36.98 ± 2.619
80
70
60
50
40
30
20
10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −742.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

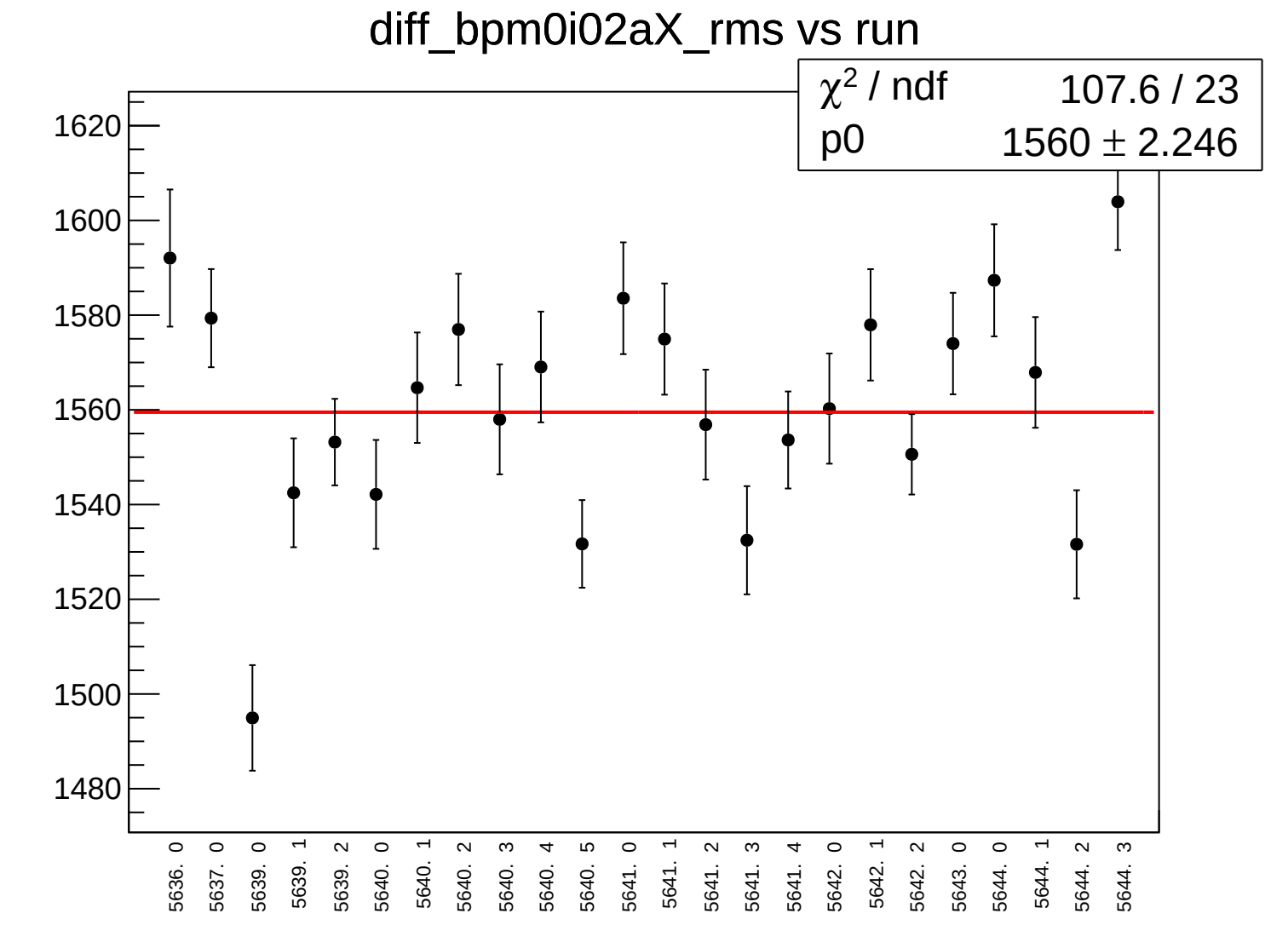

pull1D
Entries 24
Mean −0.004806
Std Dev 1.069
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

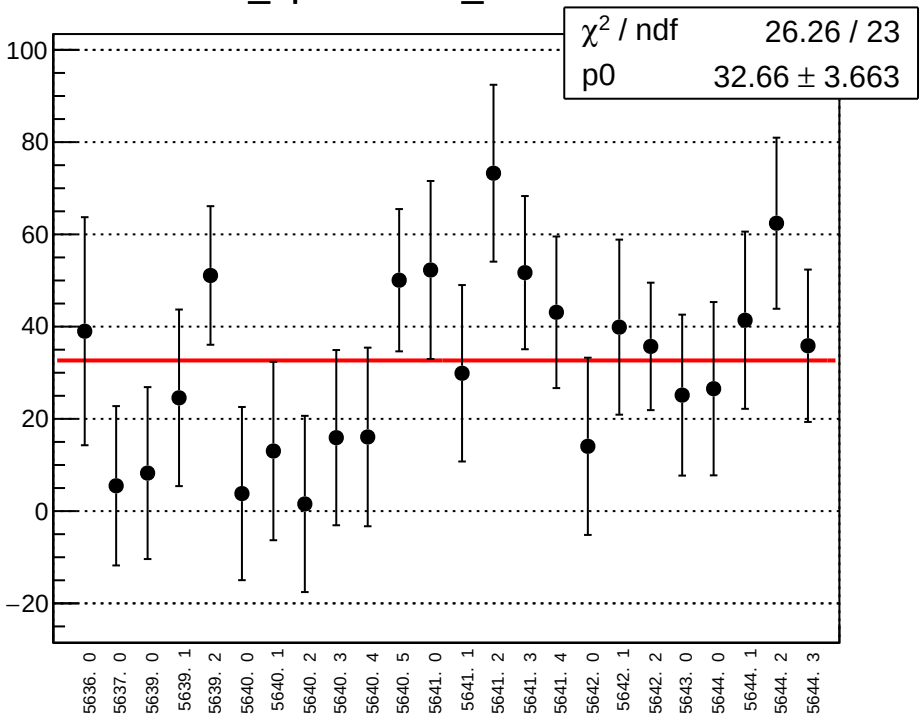

diff_bpm0i02Y_rms vs run
χ² / ndf 198.3 / 23
p0 1286 ± 1.852
1320
1300
1280
1260
1240
1220
1200
1180
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

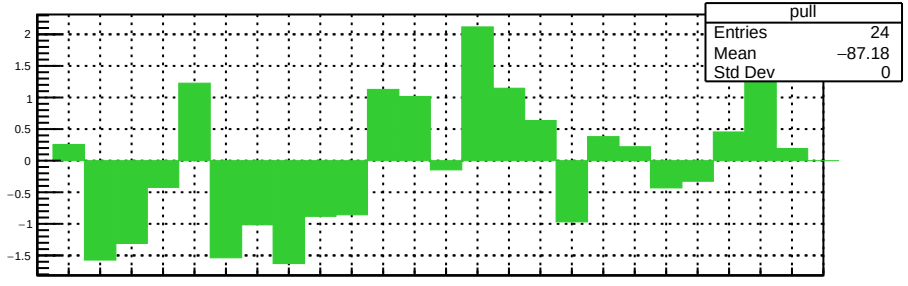

diff_bpm0i02aX_mean vs run
χ² / ndf 37.97 / 23
p0 39.32 ± 3.176
100
80
60
40
20
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

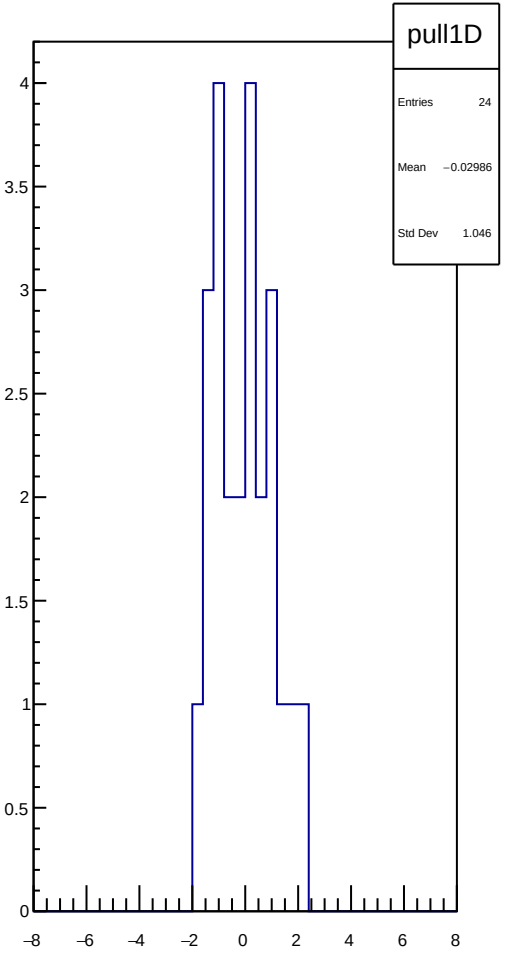

pull
Entries 24
Mean 335.7
Std Dev 0
2
1
0
−1
−2

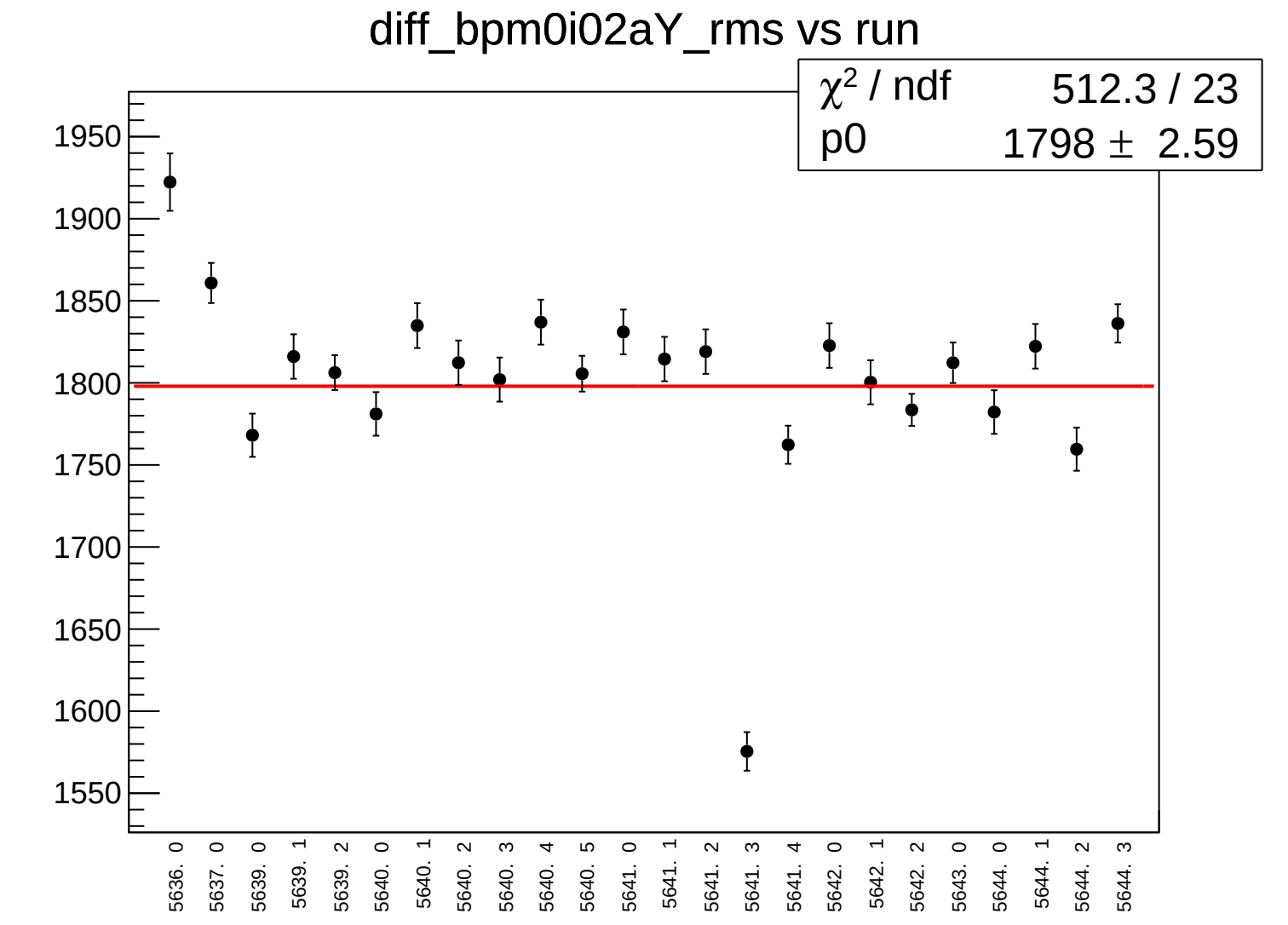

pull1D
Entries 24
Mean 0.01507
Std Dev 1.258
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

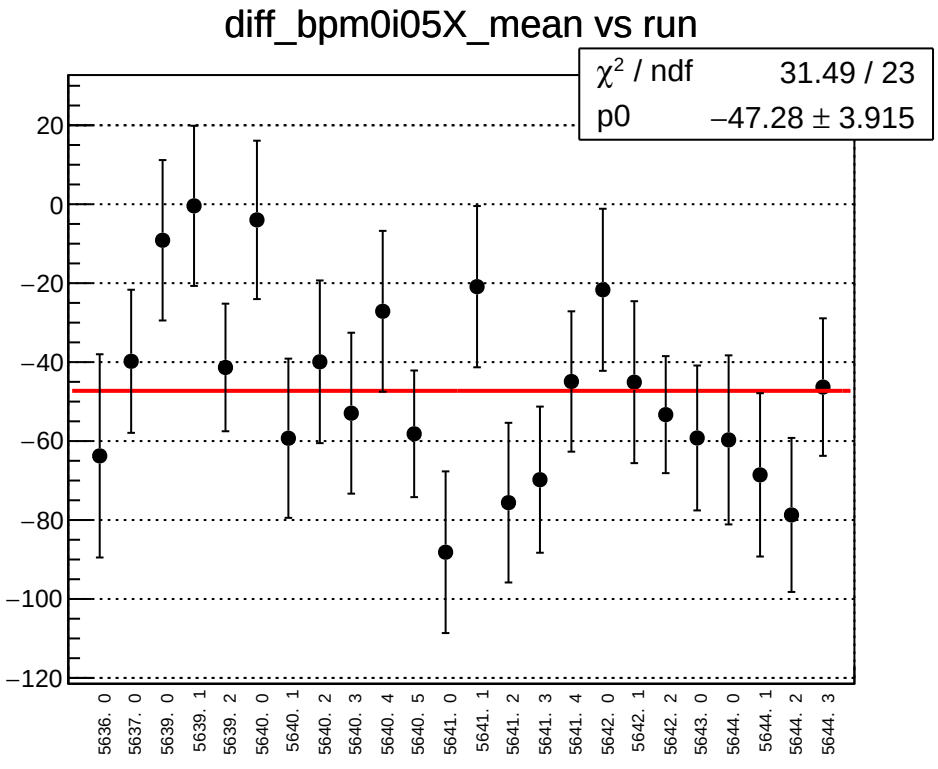

diff_bpm0i02aX_rms vs run
χ² / ndf 107.6 / 23
p0 1560 ± 2.246
1620
1600
1580
1560
1540
1520
1500
1480
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

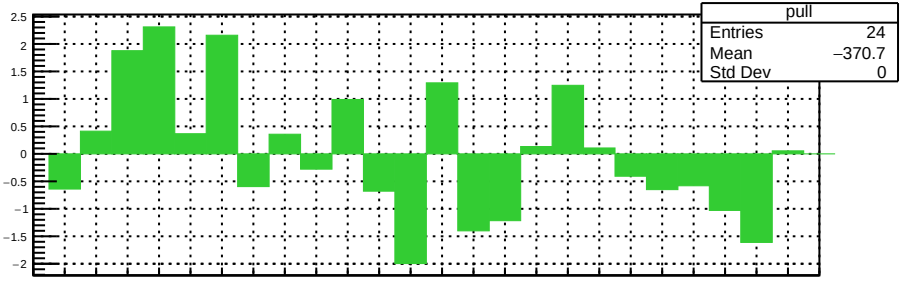

diff_bpm0i02aY_mean vs run
χ² / ndf 26.26 / 23
p0 32.66 ± 3.663
100
80
60
40
20
0
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

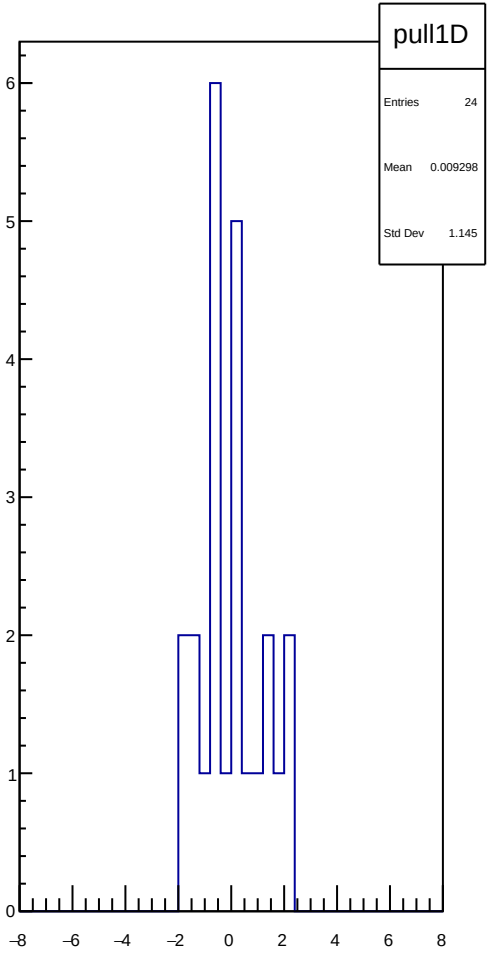

pull
Entries 24
Mean −87.18
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

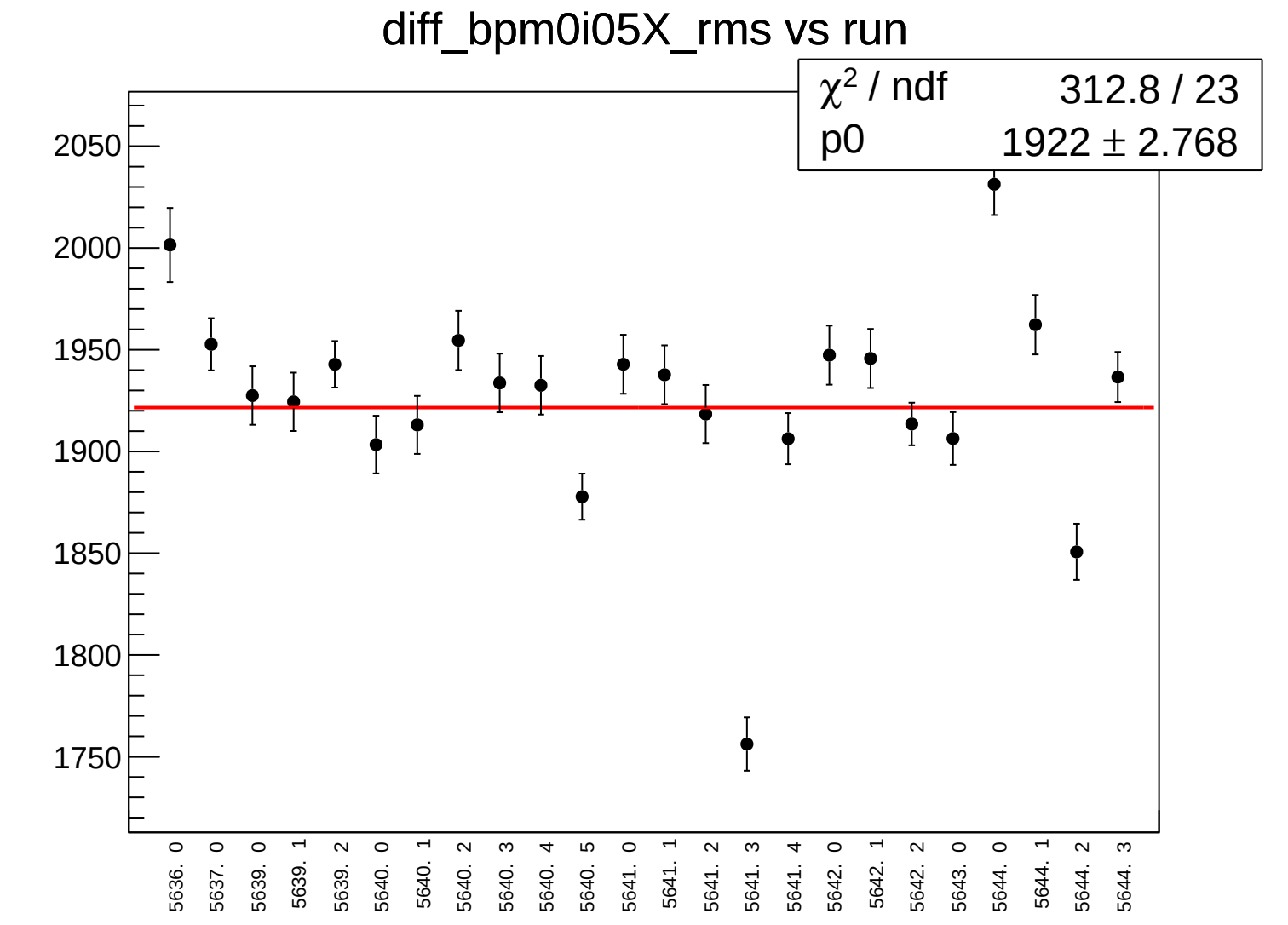

pull1D
Entries 24
Mean −0.02986
Std Dev 1.046
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

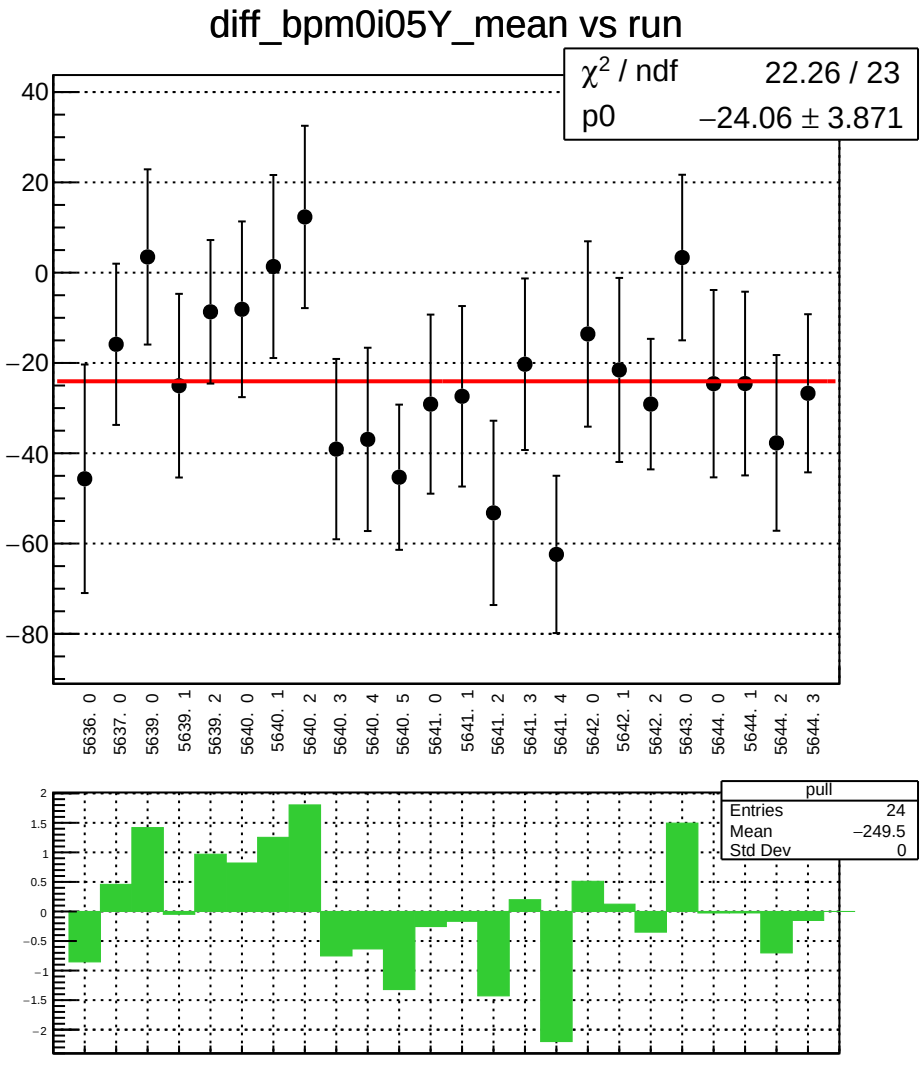

diff_bpm0i02aY_rms vs run
χ² / ndf 512.3 / 23
p0 1798 ± 2.59
1950
1900
1850
1800
1750
1700
1650
1600
1550
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

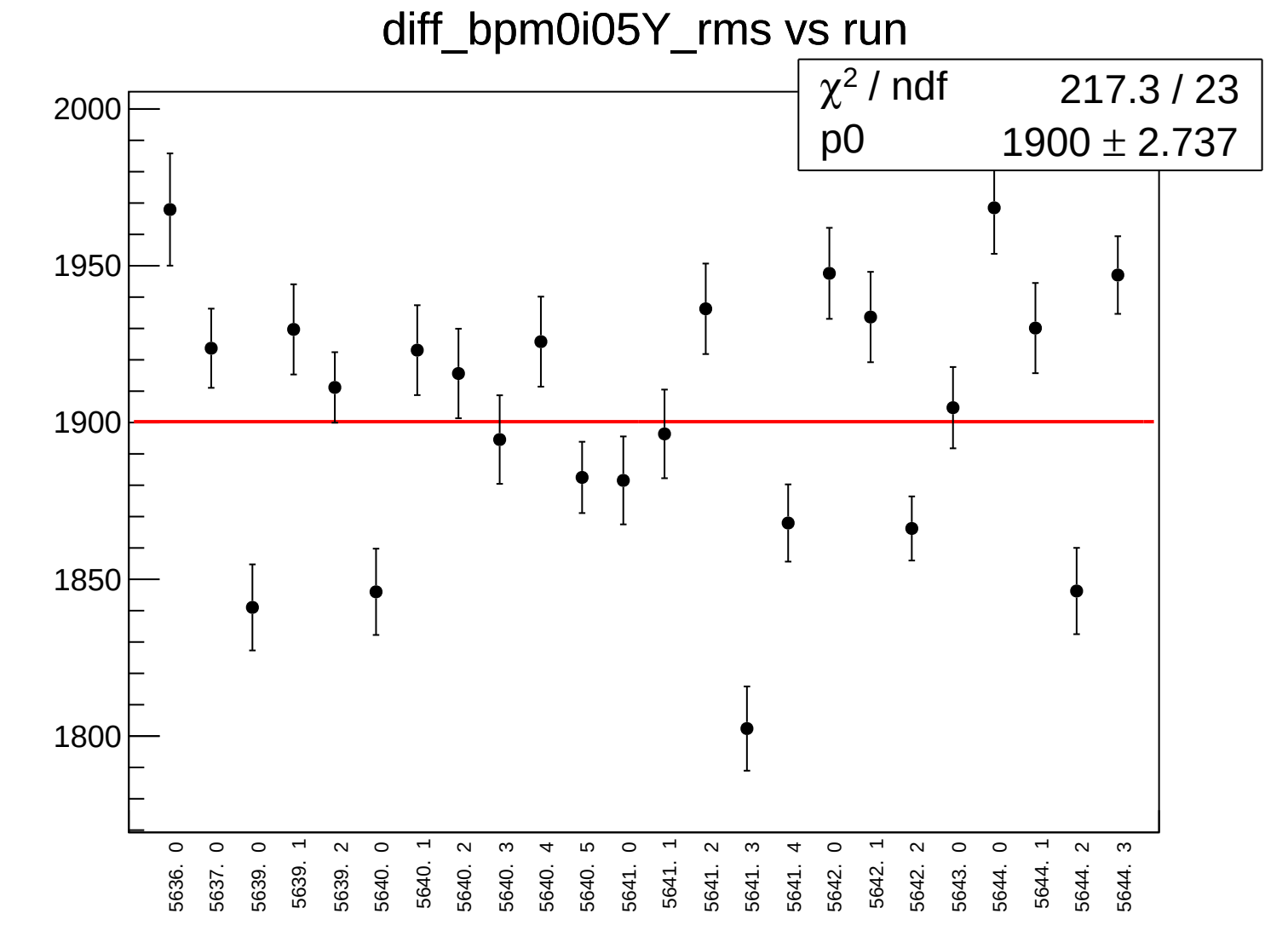

diff_bpm0i05X_mean vs run
χ² / ndf 31.49 / 23
p0 −47.28 ± 3.915
20
0
−20
−40
−60
−80
−100
−120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

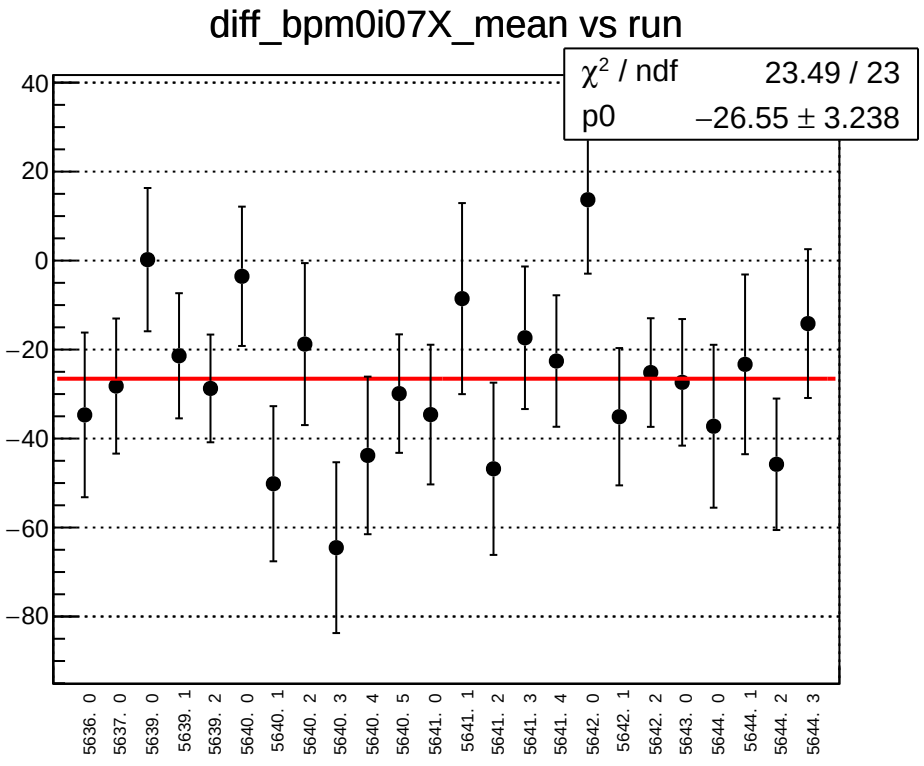

pull
Entries 24
Mean −370.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

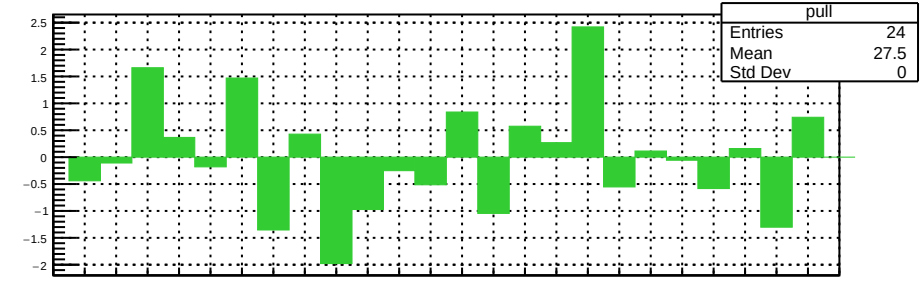

pull1D
Entries 24
Mean 0.009298
Std Dev 1.145
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

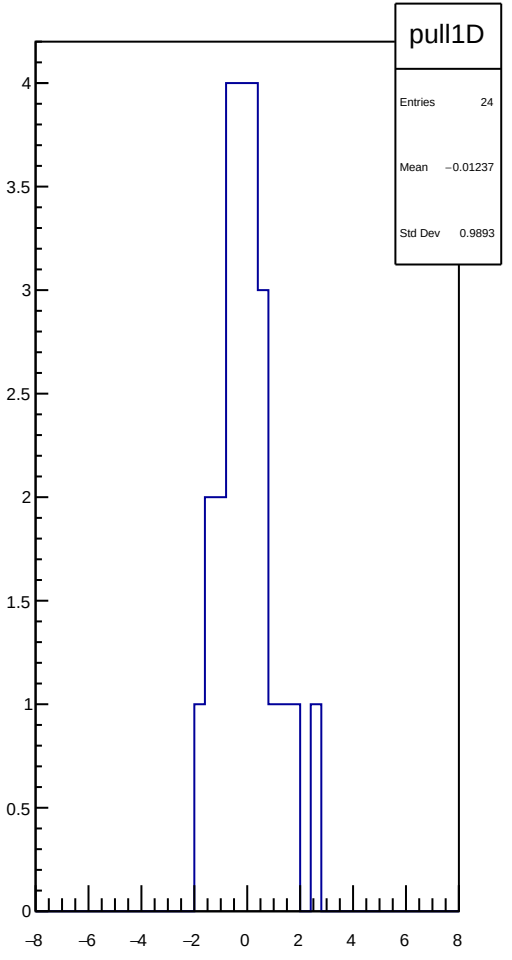

diff_bpm0i05X_rms vs run
χ² / ndf 312.8 / 23
p0 1922 ± 2.768
2050
2000
1950
1900
1850
1800
1750
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

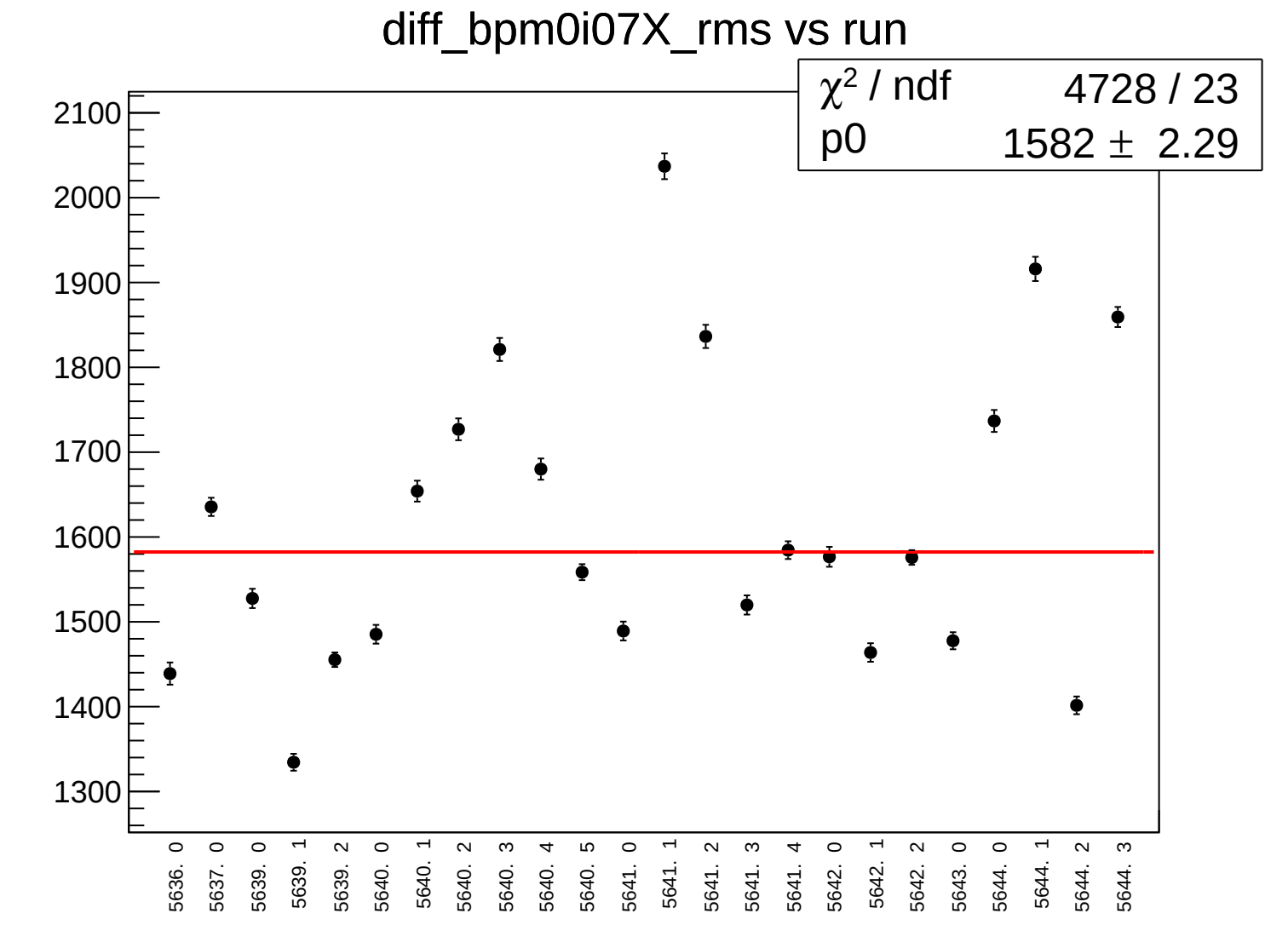

diff_bpm0i05Y_mean vs run
χ² / ndf 22.26 / 23
p0 −24.06 ± 3.871
40
20
0
−20
−40
−60
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −249.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.005804
Std Dev 0.9631
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

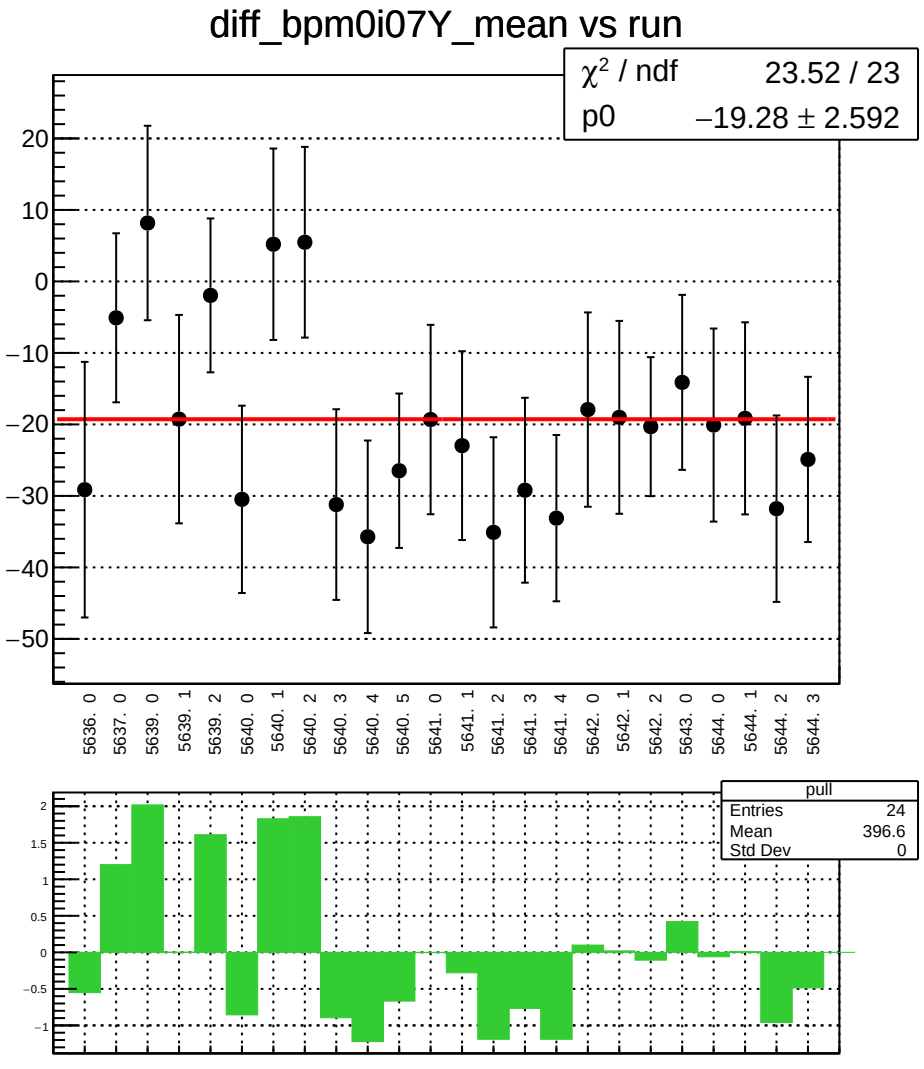

diff_bpm0i05Y_rms vs run
χ² / ndf 217.3 / 23
p0 1900 ± 2.737
2000
1950
1900
1850
1800
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

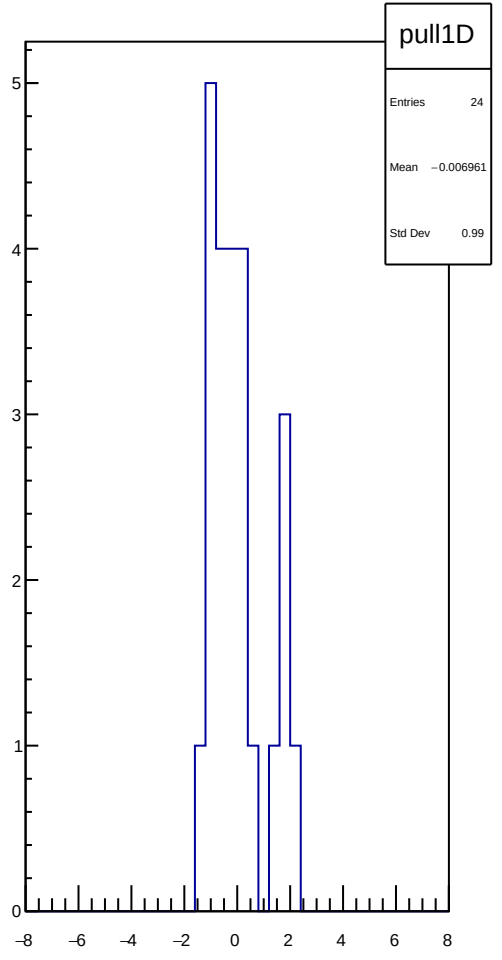

diff_bpm0i07X_mean vs run
χ² / ndf 23.49 / 23
p0 −26.55 ± 3.238
40
20
0
−20
−40
−60
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

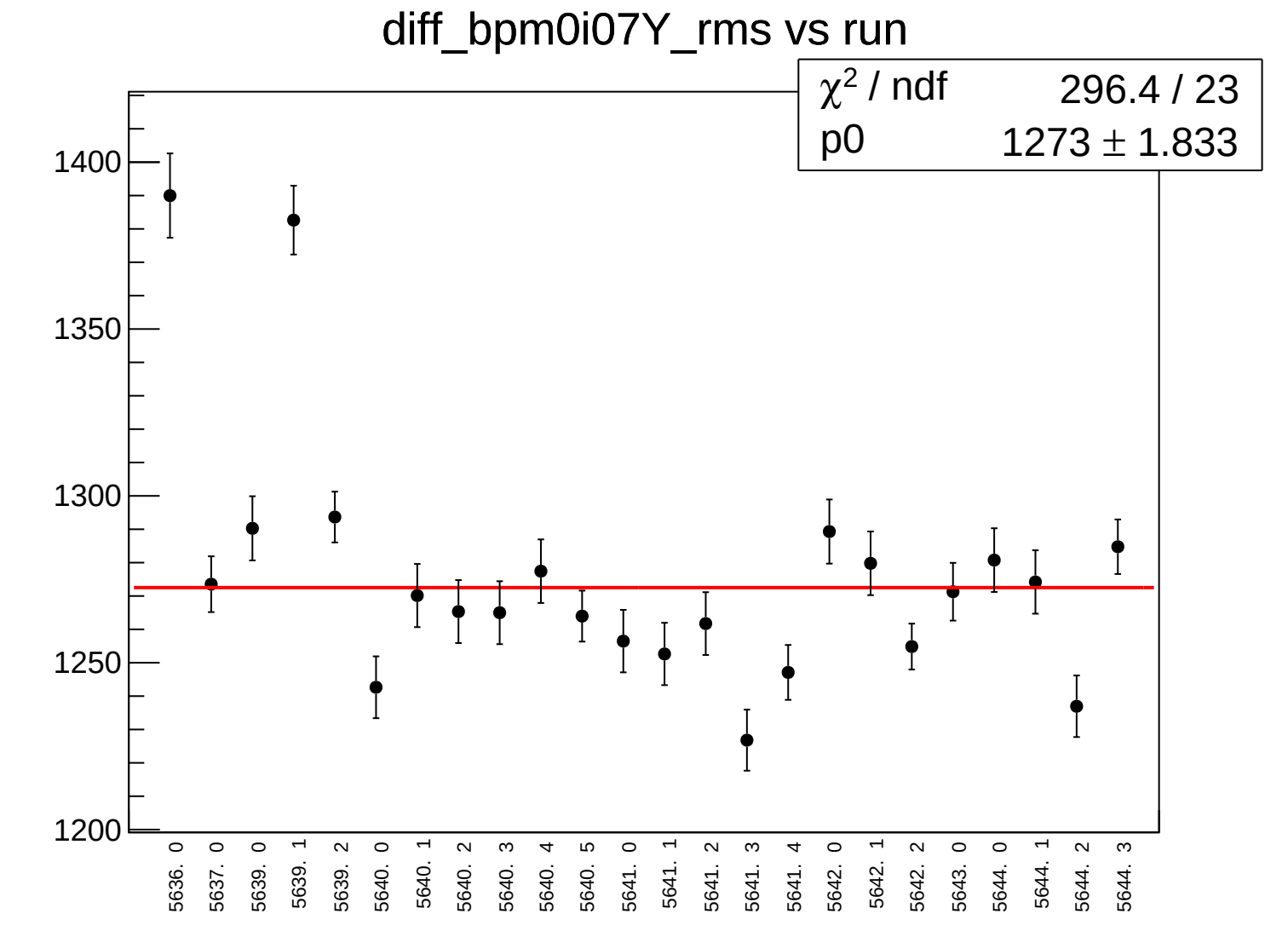

pull
Entries 24
Mean 27.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

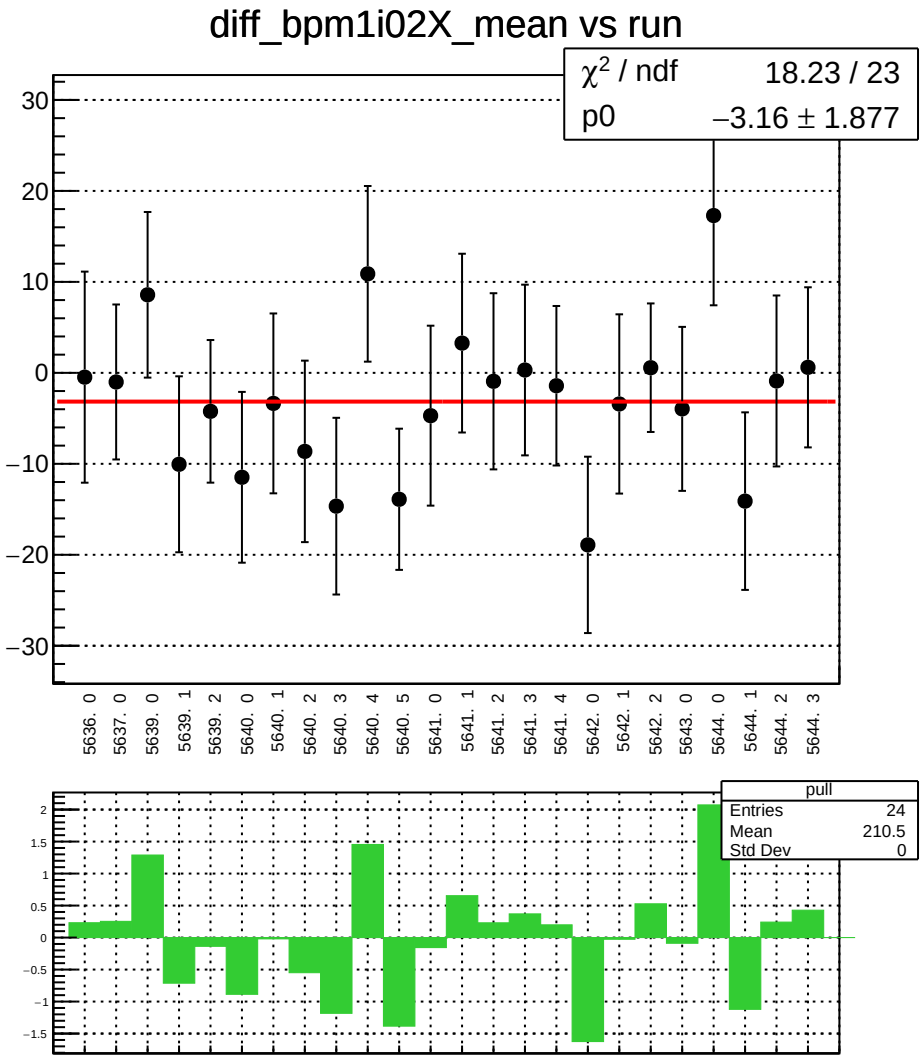

pull1D
Entries 24
Mean −0.01237
Std Dev 0.9893
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

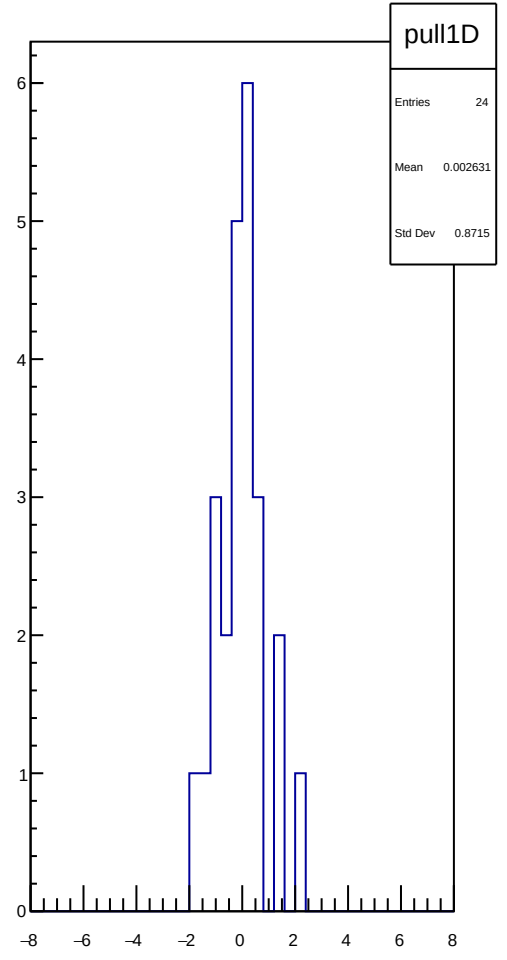

diff_bpm0i07X_rms vs run
χ² / ndf 4728 / 23
p0 1582 ± 2.29
2100
2000
1900
1800
1700
1600
1500
1400
1300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

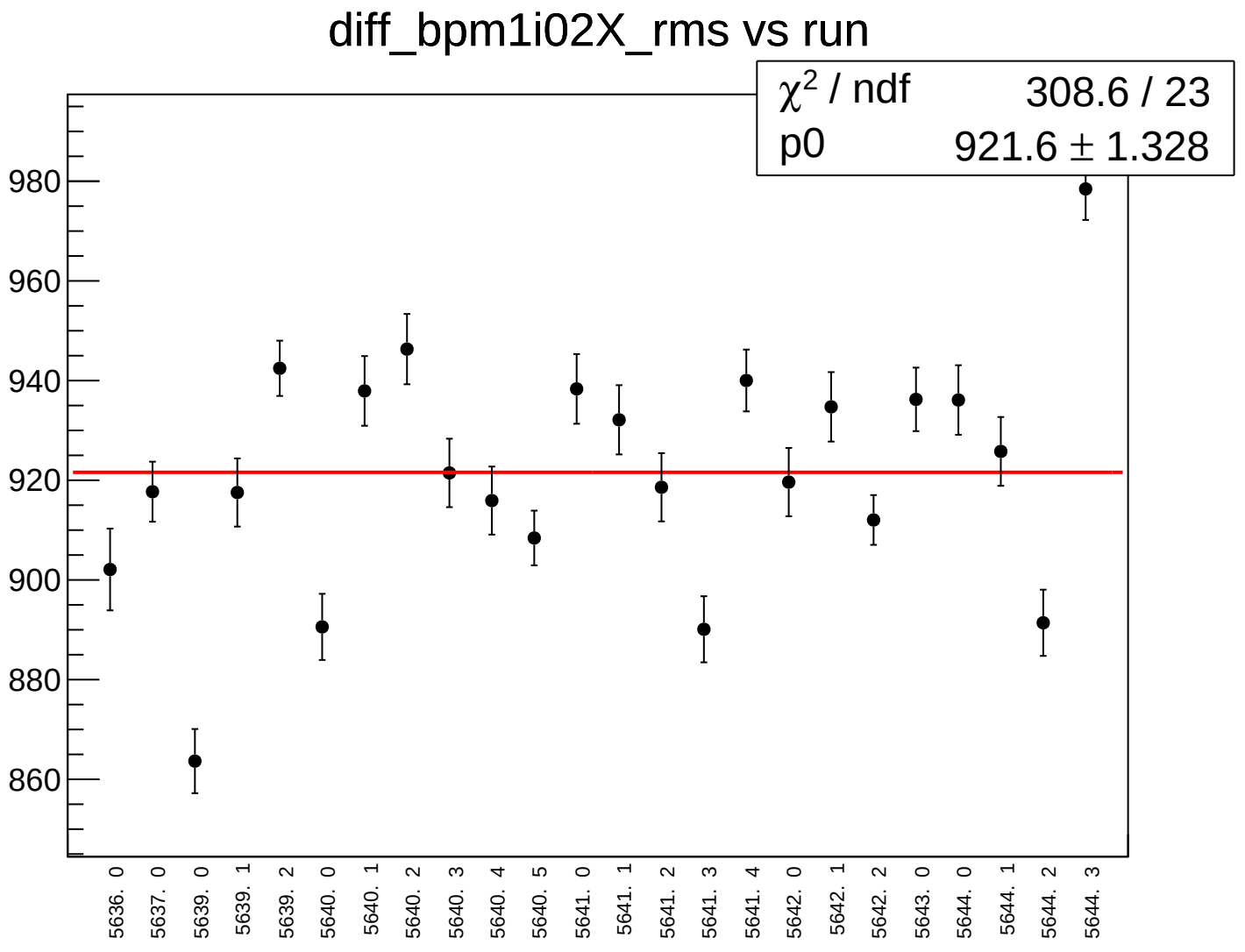

diff_bpm0i07Y_mean vs run
χ² / ndf 23.52 / 23
p0 −19.28 ± 2.592
20
10
0
−10
−20
−30
−40
−50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 396.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

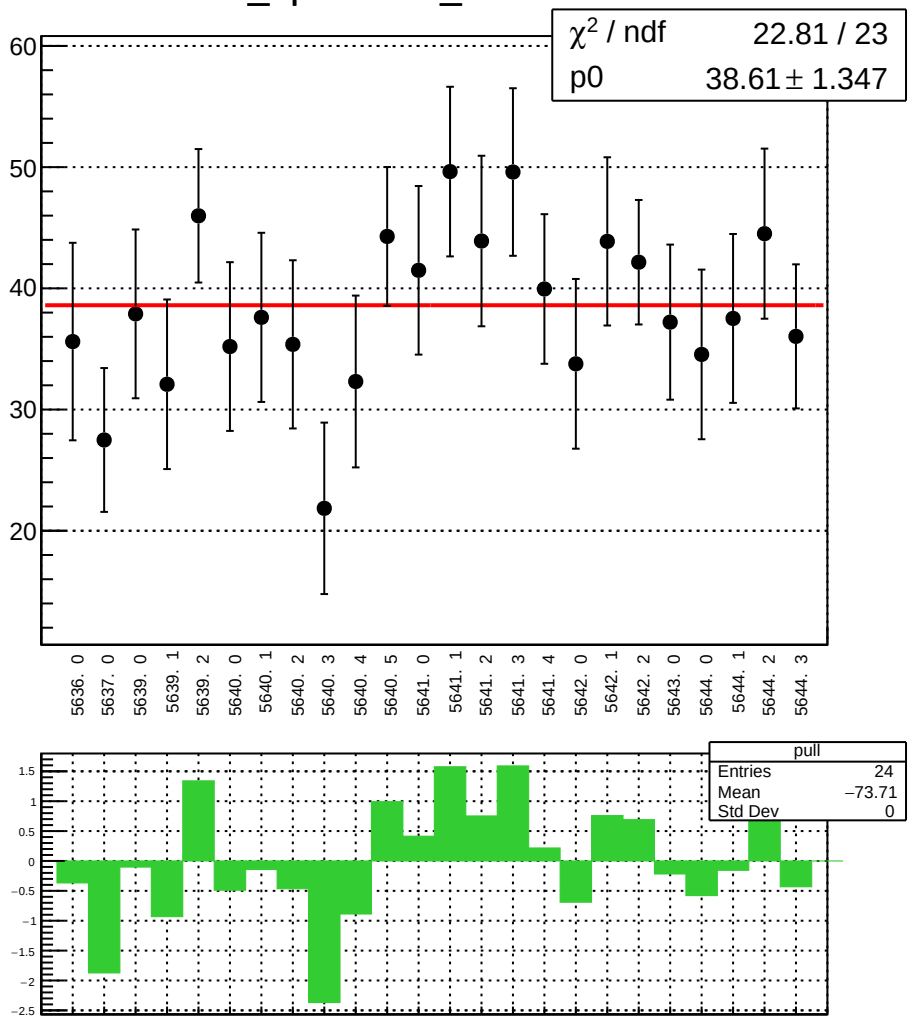

pull1D
Entries 24
Mean −0.006961
Std Dev 0.99
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

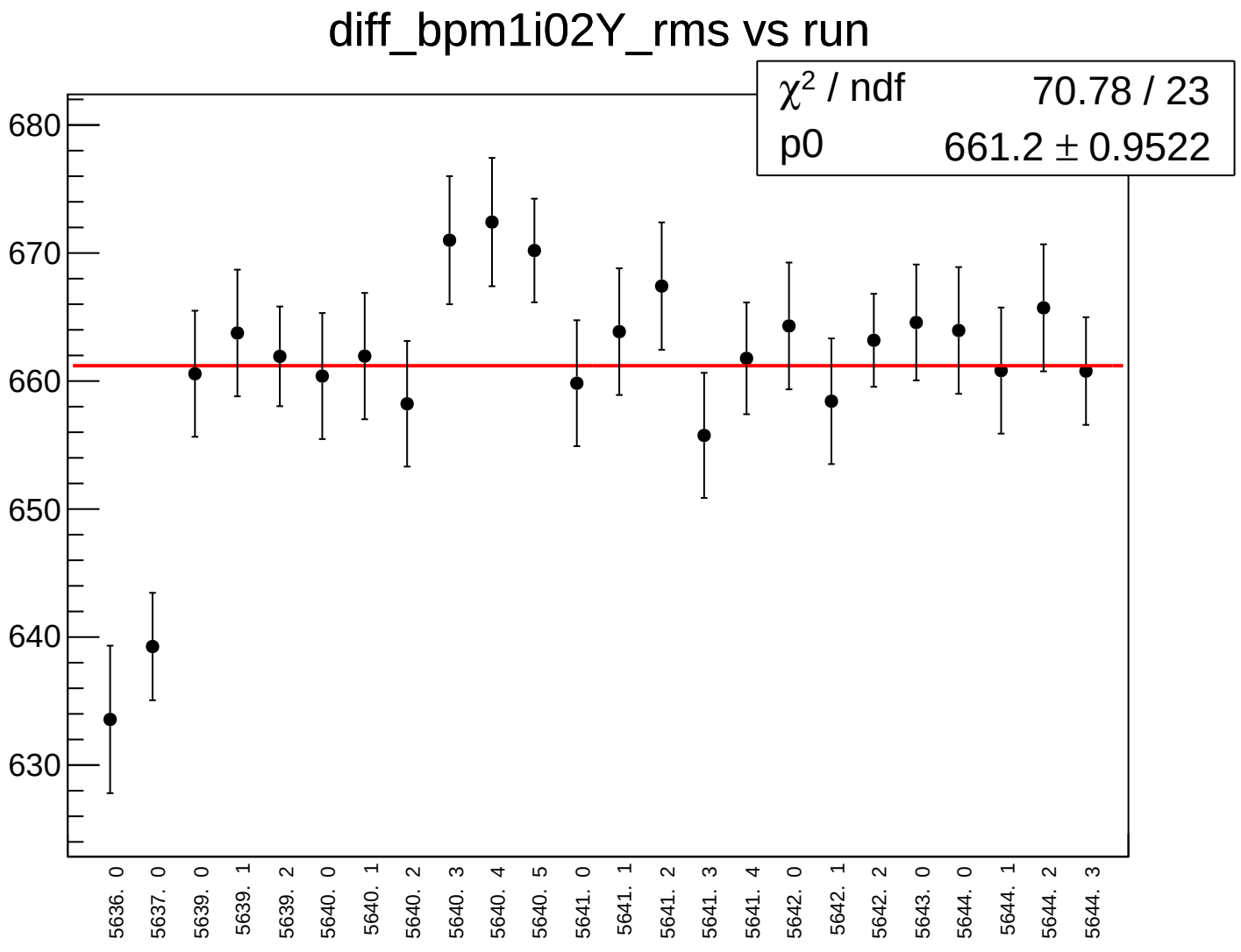

diff_bpm0i07Y_rms vs run
χ² / ndf 296.4 / 23
p0 1273 ± 1.833
1400
1350
1300
1250
1200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


diff_bpm1i02X_mean vs run
χ² / ndf 18.23 / 23
p0 −3.16 ± 1.877
30
20
10
0
−10
−20
−30
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 210.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean 0.002631
Std Dev 0.8715
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm1i02X_rms vs run
χ² / ndf 308.6 / 23
p0 921.6 ± 1.328
980
960
940
920
900
880
860
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


diff_bpm1i02Y_mean vs run
χ² / ndf 22.81 / 23
p0 38.61 ± 1.347
60
50
40
30
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −73.71
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean −0.02219
Std Dev 0.9747
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm1i02Y_rms vs run
χ² / ndf 70.78 / 23
p0 661.2 ± 0.9522
680
670
660
650
640
630
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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5643. 0
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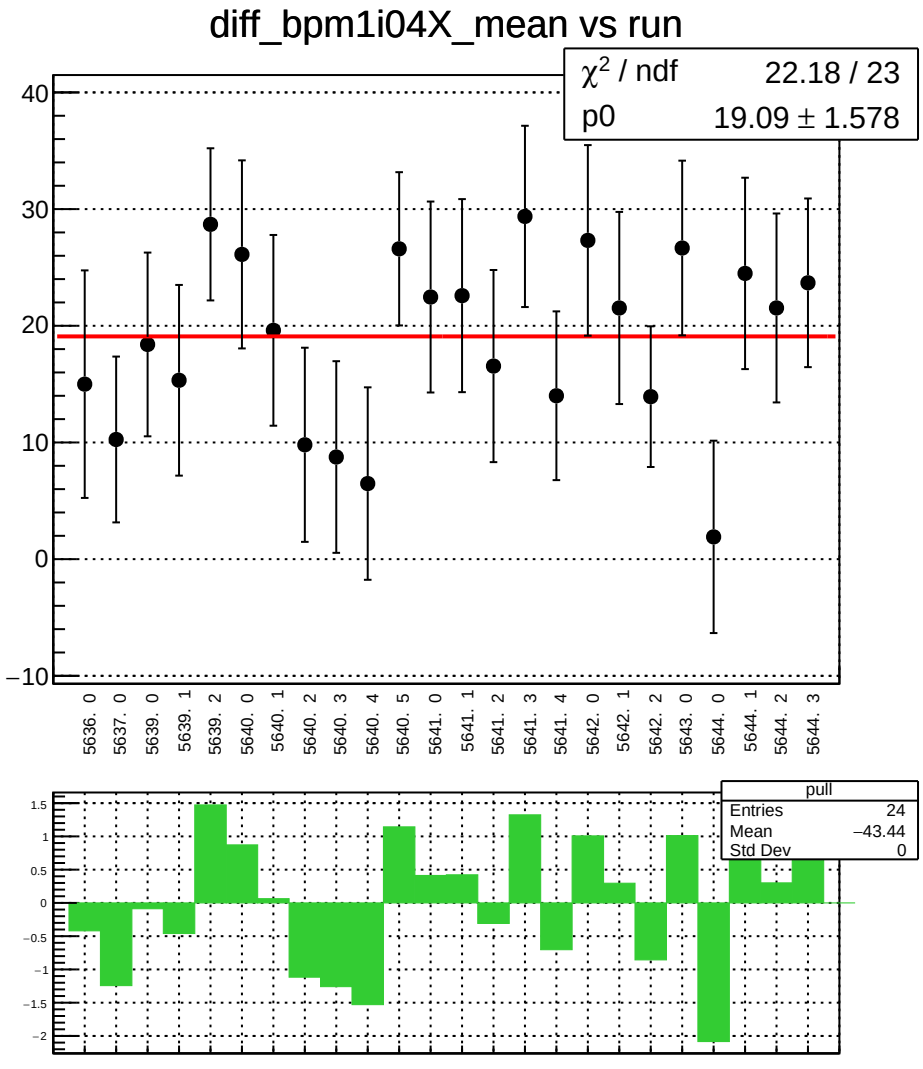
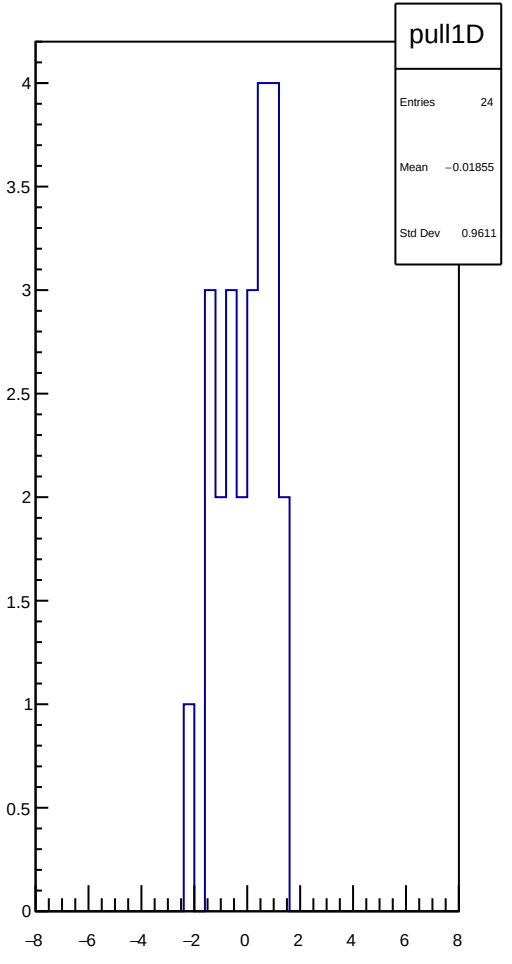
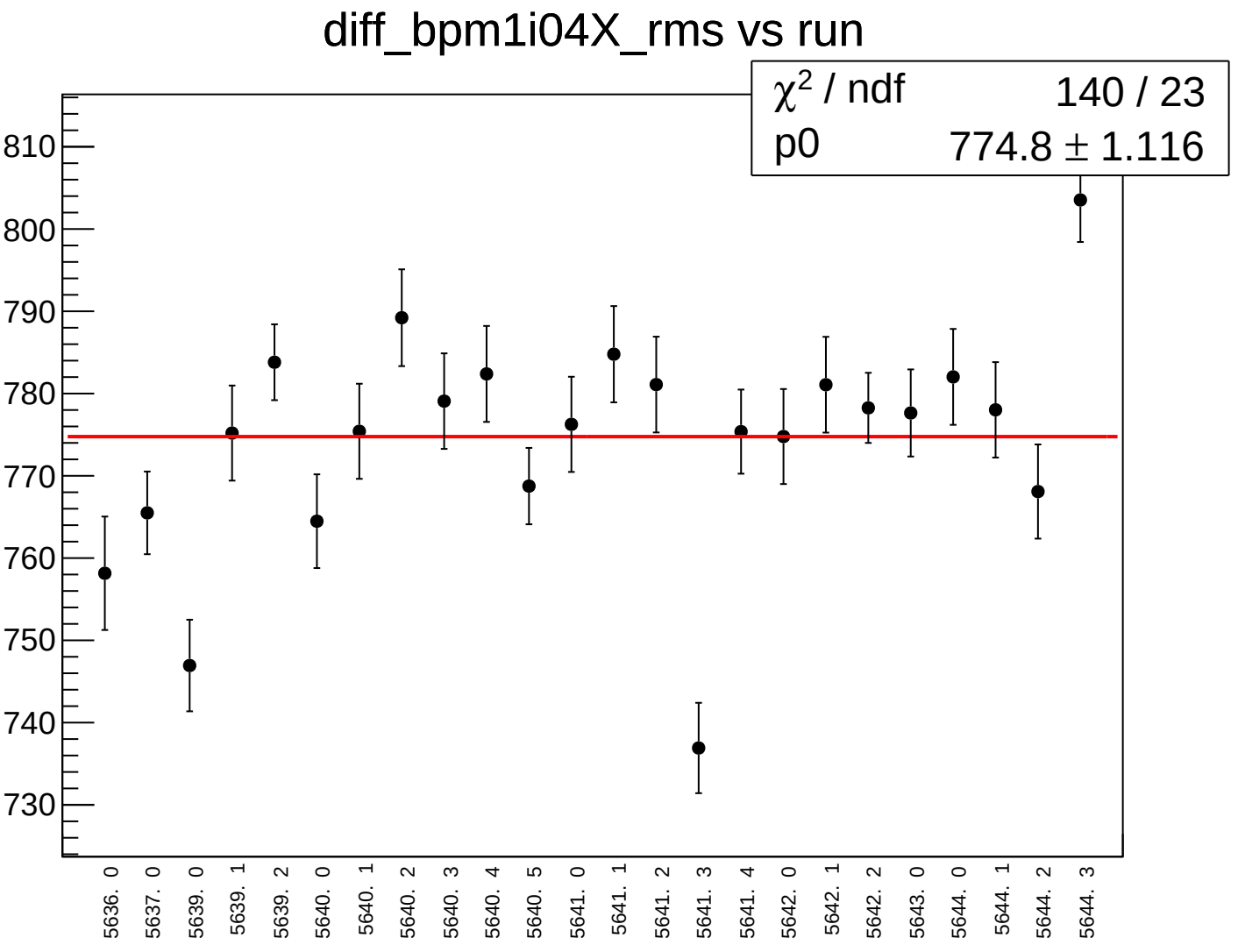
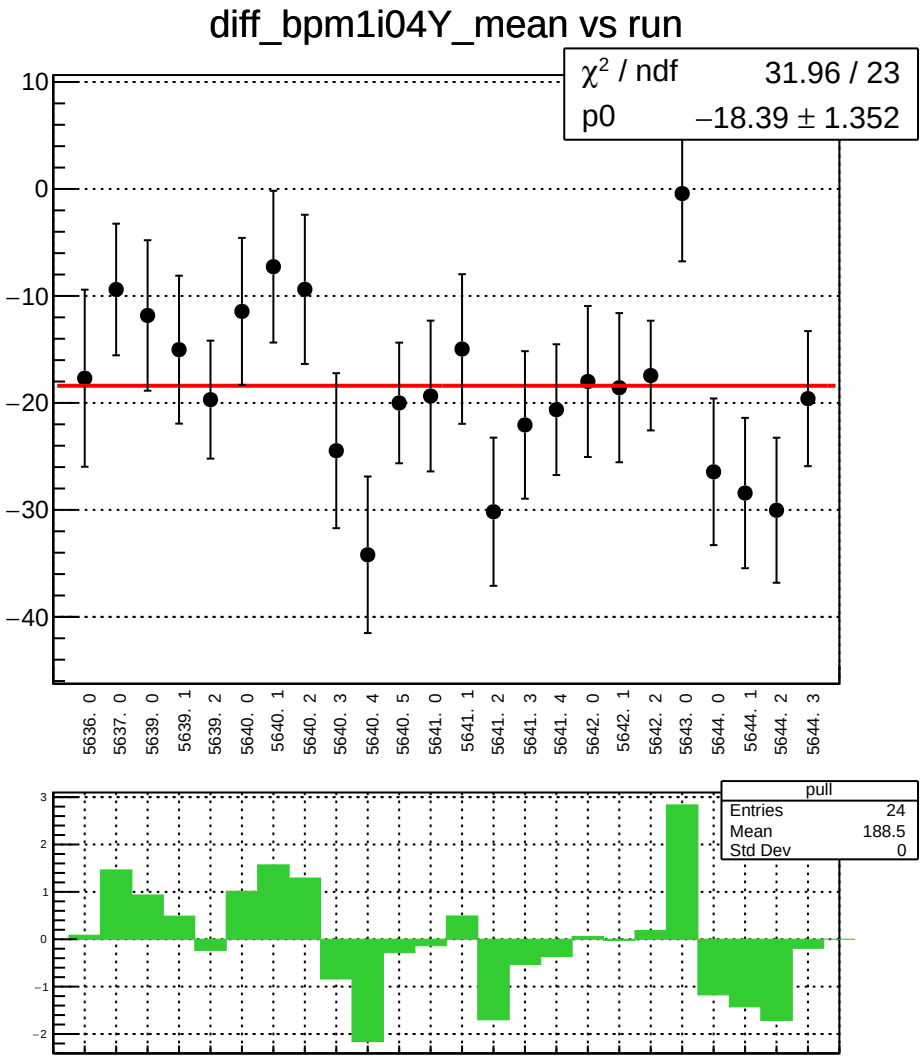
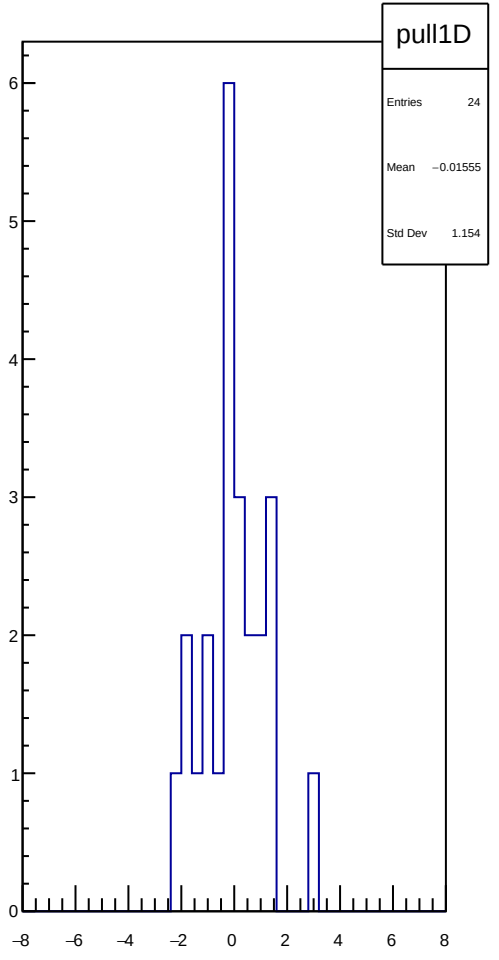
5644. 2
5644. 3

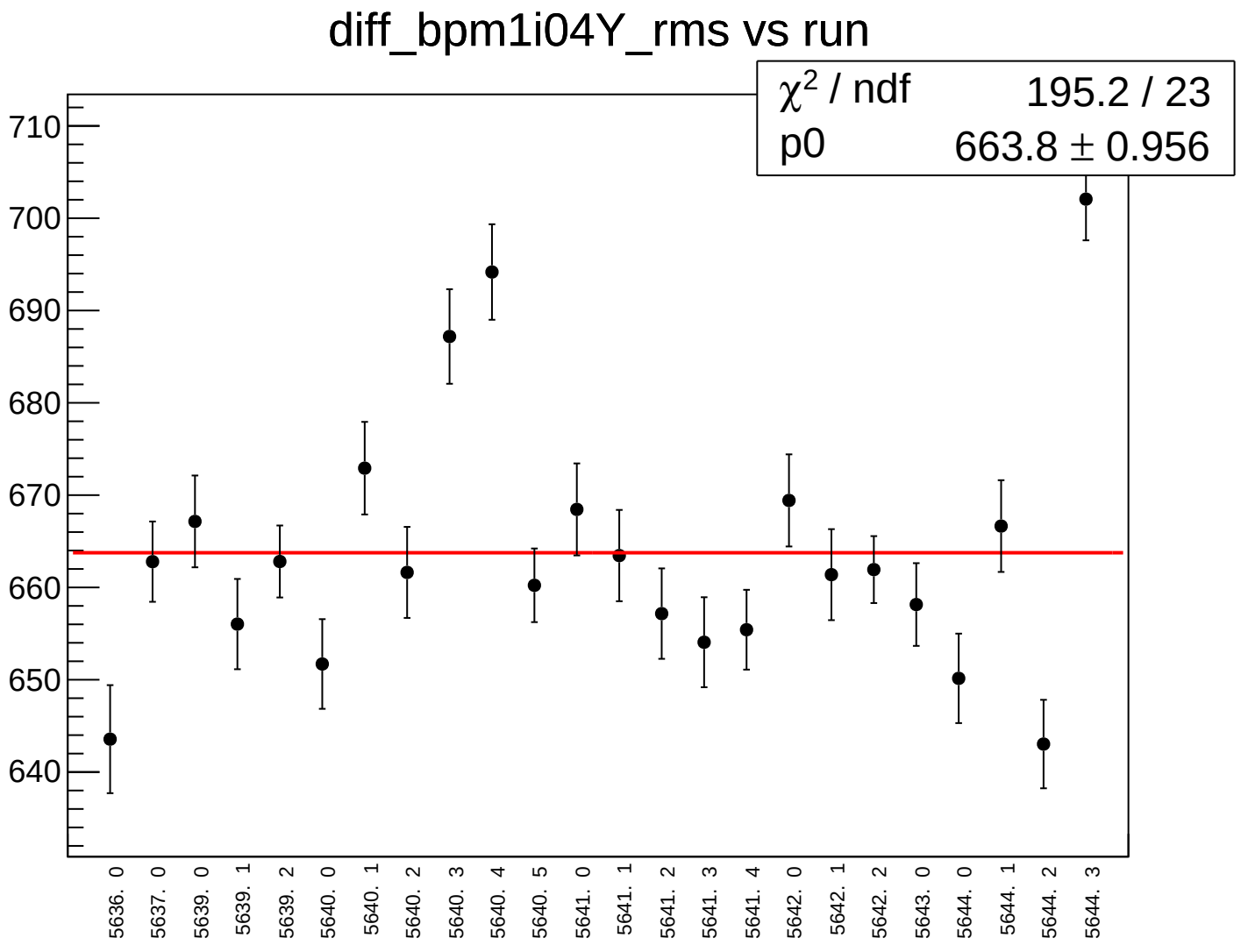

diff_bpm1i04X_mean vs run
χ² / ndf 22.18 / 23
p0 19.09 ± 1.578
40
30
20
10
0
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −43.44
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

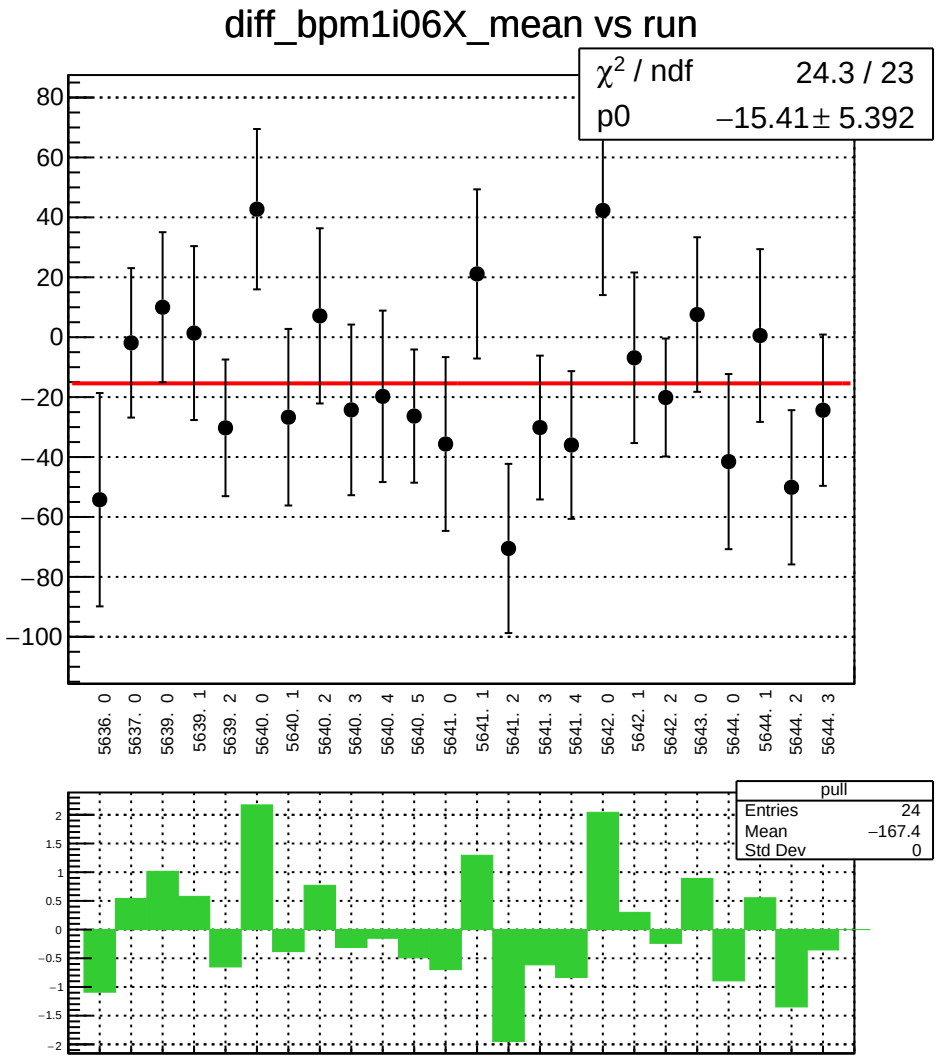

pull1D
Entries 24
Mean −0.01855
Std Dev 0.9611
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

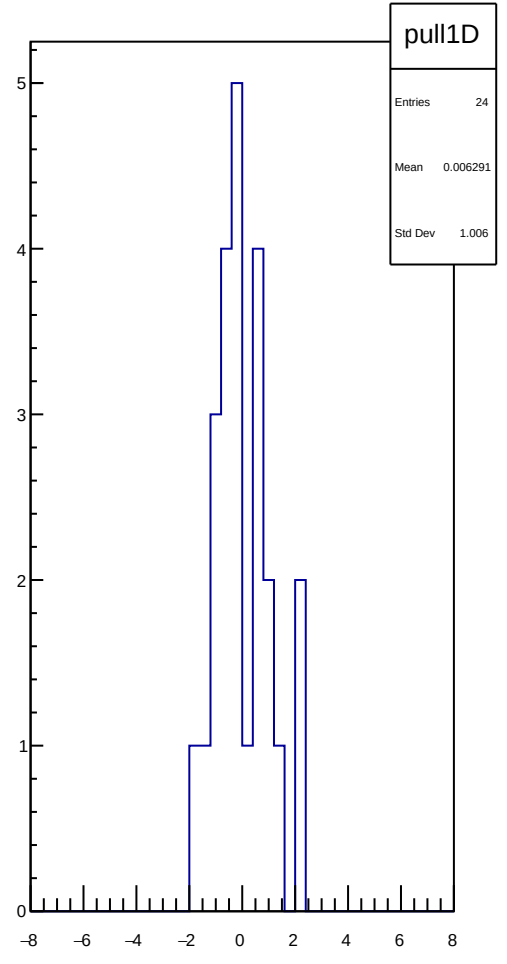

diff_bpm1i04X_rms vs run
χ² / ndf 140 / 23
p0 774.8 ± 1.116
810
800
790
780
770
760
750
740
730
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

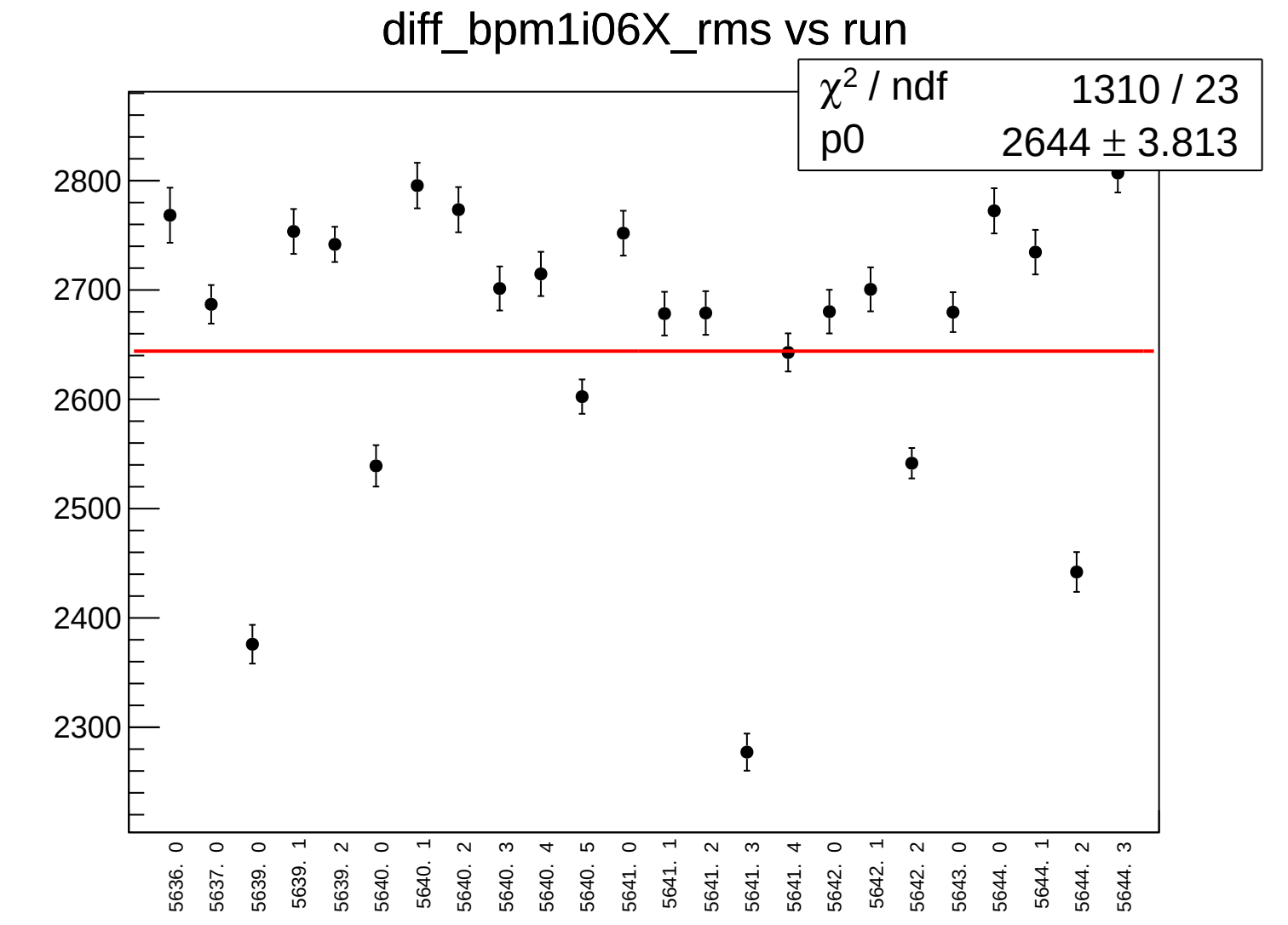

diff_bpm1i04Y_mean vs run
χ² / ndf 31.96 / 23
p0 −18.39 ± 1.352
10
0
−10
−20
−30
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 188.5
Std Dev 0
3
2
1
0
−1
−2

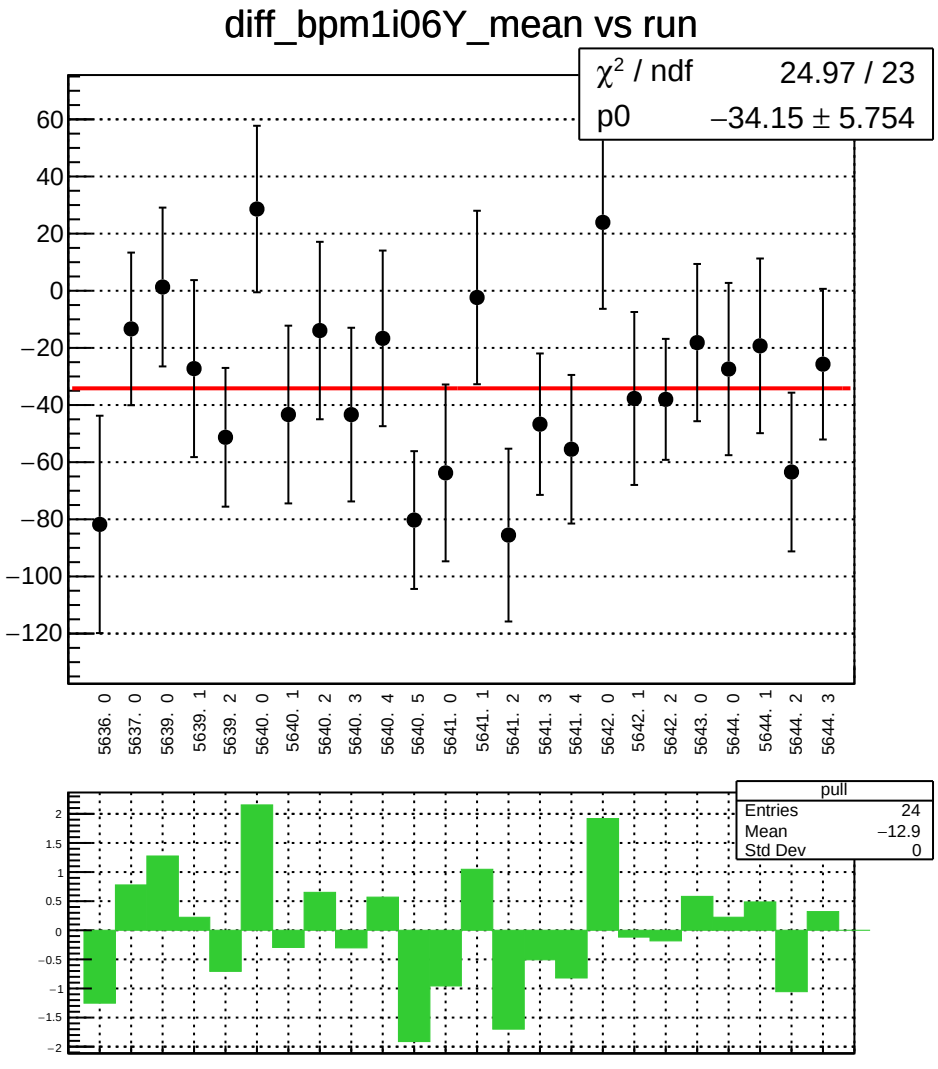

pull1D
Entries 24
Mean −0.01555
Std Dev 1.154
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

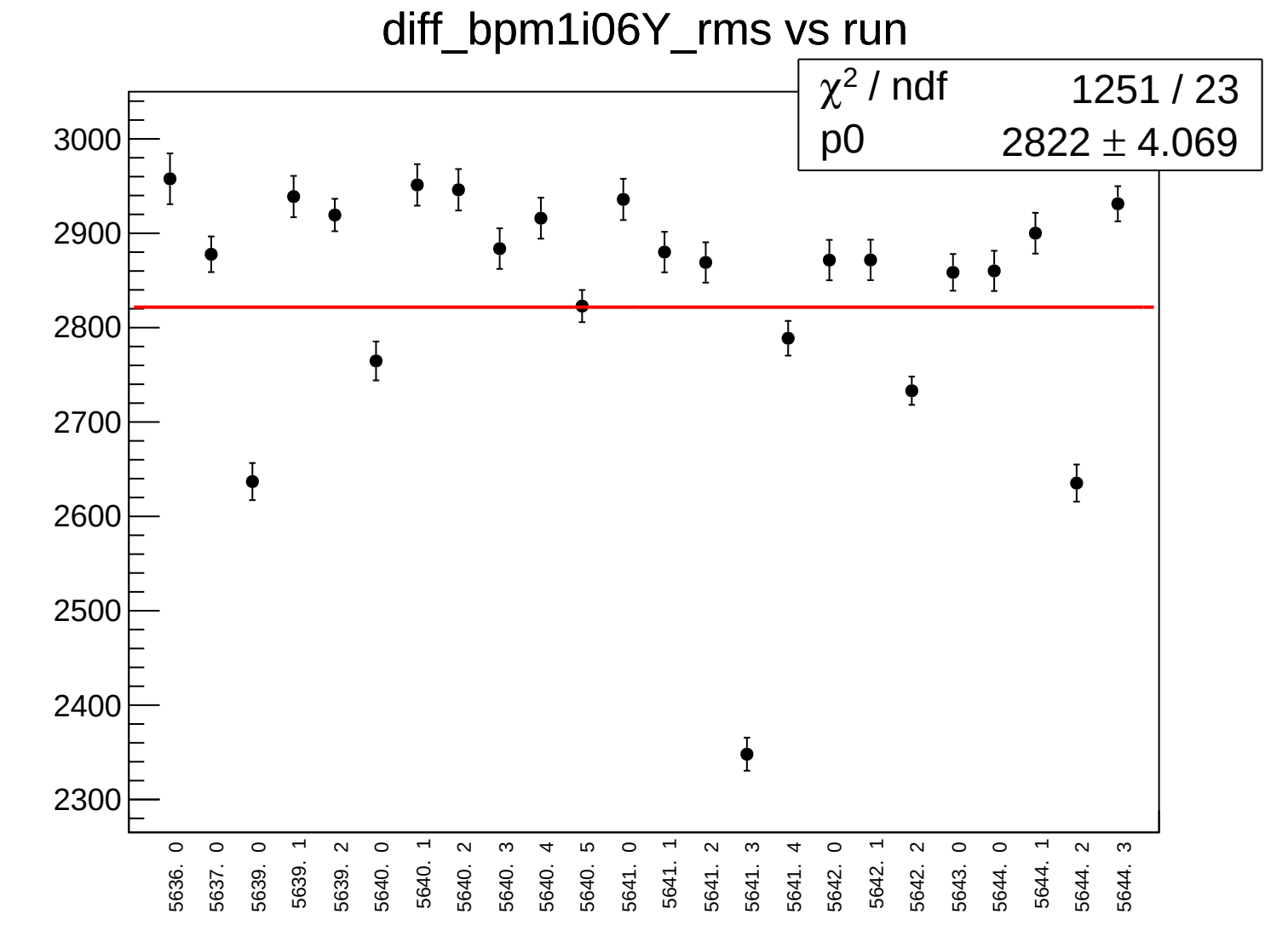

diff_bpm1i04Y_rms vs run
χ² / ndf 195.2 / 23
p0 663.8 ± 0.956
710
700
690
680
670
660
650
640
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

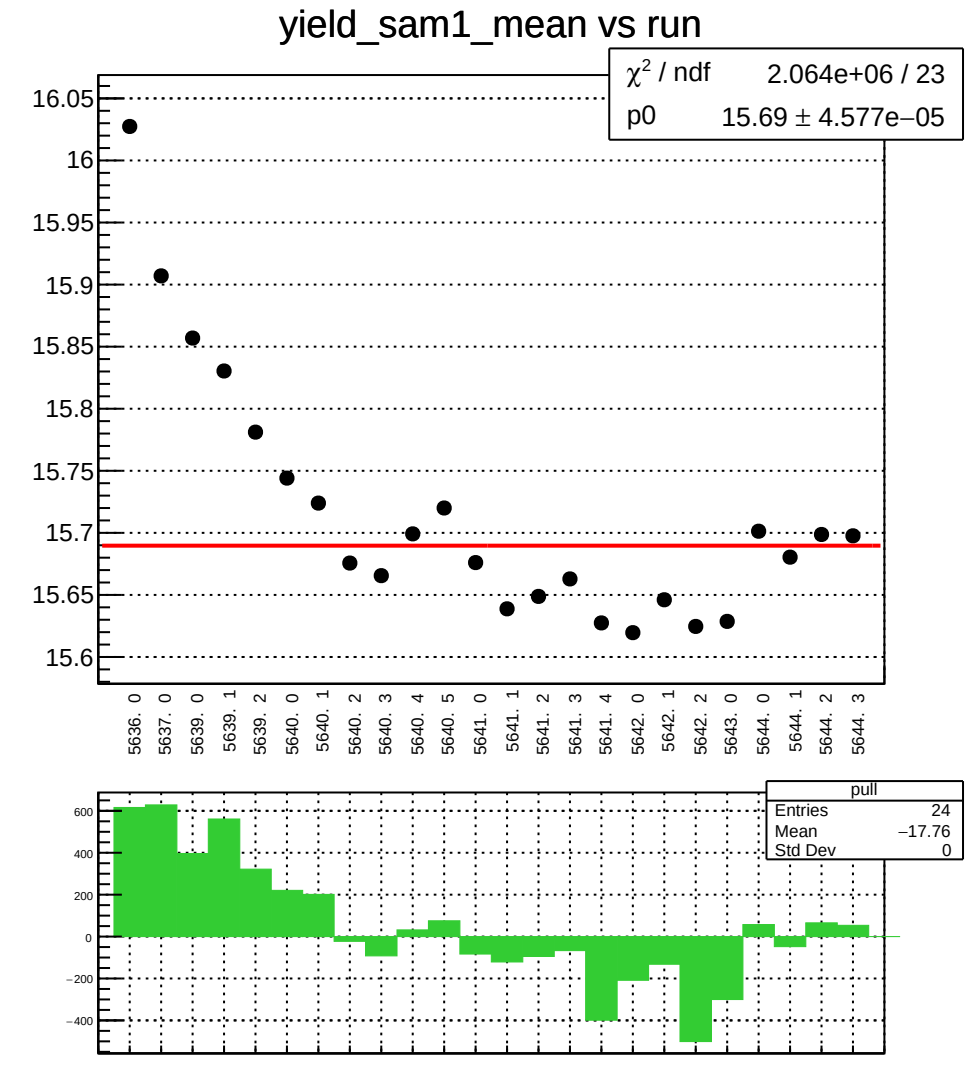

diff_bpm1i06X_mean vs run
χ² / ndf 24.3 / 23
p0 −15.41 ± 5.392
80
60
40
20
0
−20
−40
−60
−80
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −167.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

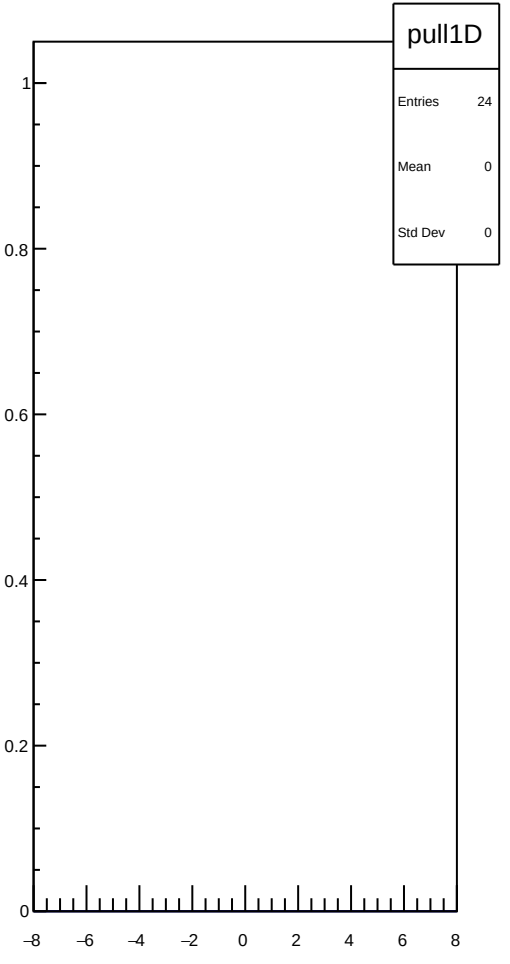

pull1D
Entries 24
Mean 0.006291
Std Dev 1.006
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

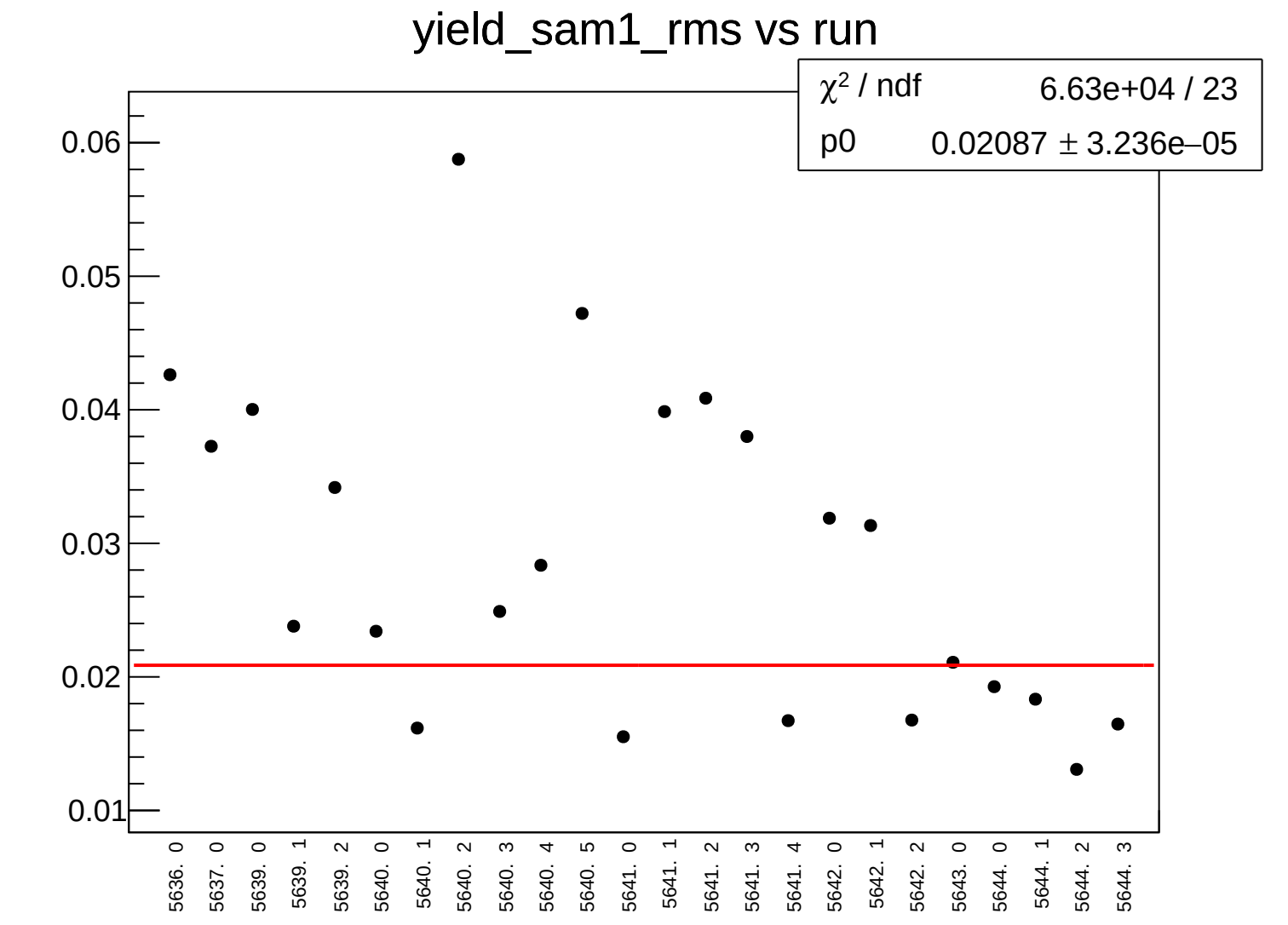

diff_bpm1i06X_rms vs run
χ² / ndf 1310 / 23
p0 2644 ± 3.813
2800
2700
2600
2500
2400
2300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

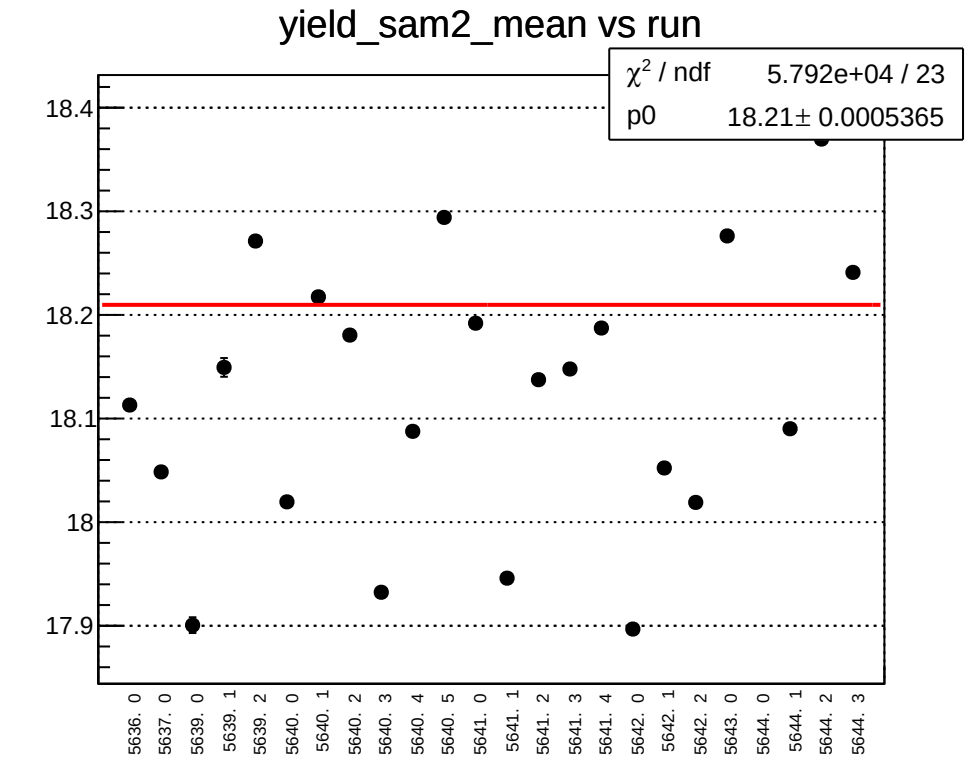

diff_bpm1i06Y_mean vs run
χ² / ndf 24.97 / 23
p0 −34.15 ± 5.754
60
40
20
0
−20
−40
−60
−80
−100
−120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −12.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.01787
Std Dev 1.02
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

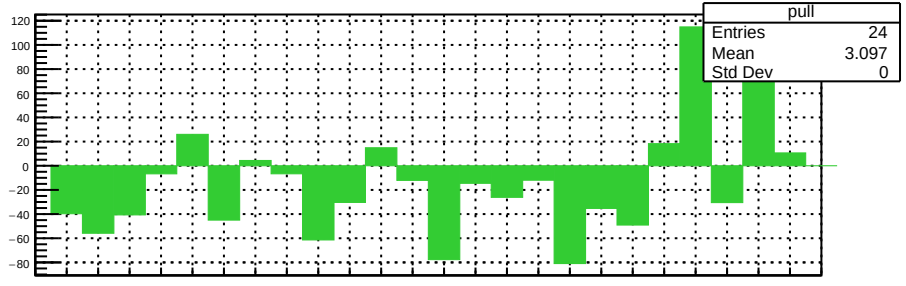

diff_bpm1i06Y_rms vs run
χ² / ndf 1251 / 23
p0 2822 ± 4.069
3000
2900
2800
2700
2600
2500
2400
2300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

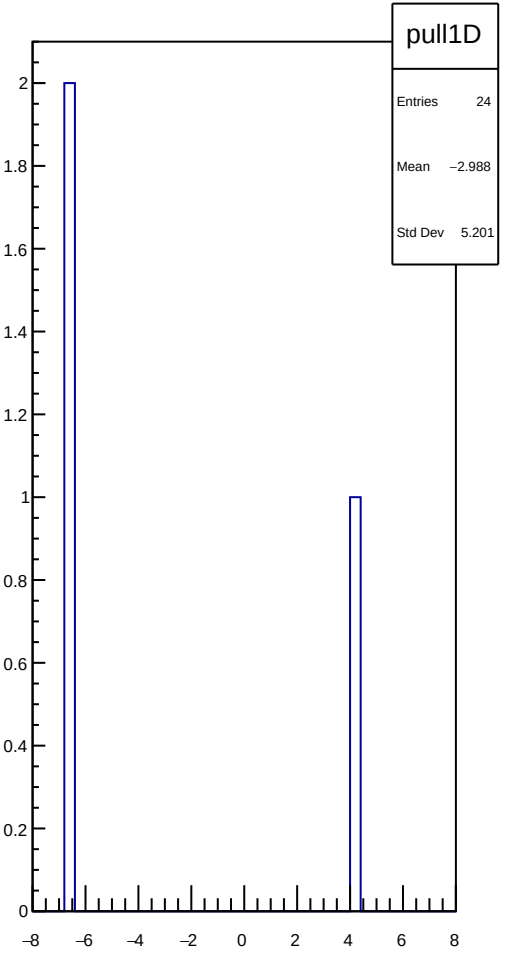

yield_sam1_mean vs run
χ² / ndf 2.064e+06 / 23
p0 15.69 ± 4.577e−05
16.05
16
15.95
15.9
15.85
15.8
15.75
15.7
15.65
15.6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −17.76
Std Dev 0
600
400
200
0
−200
−400

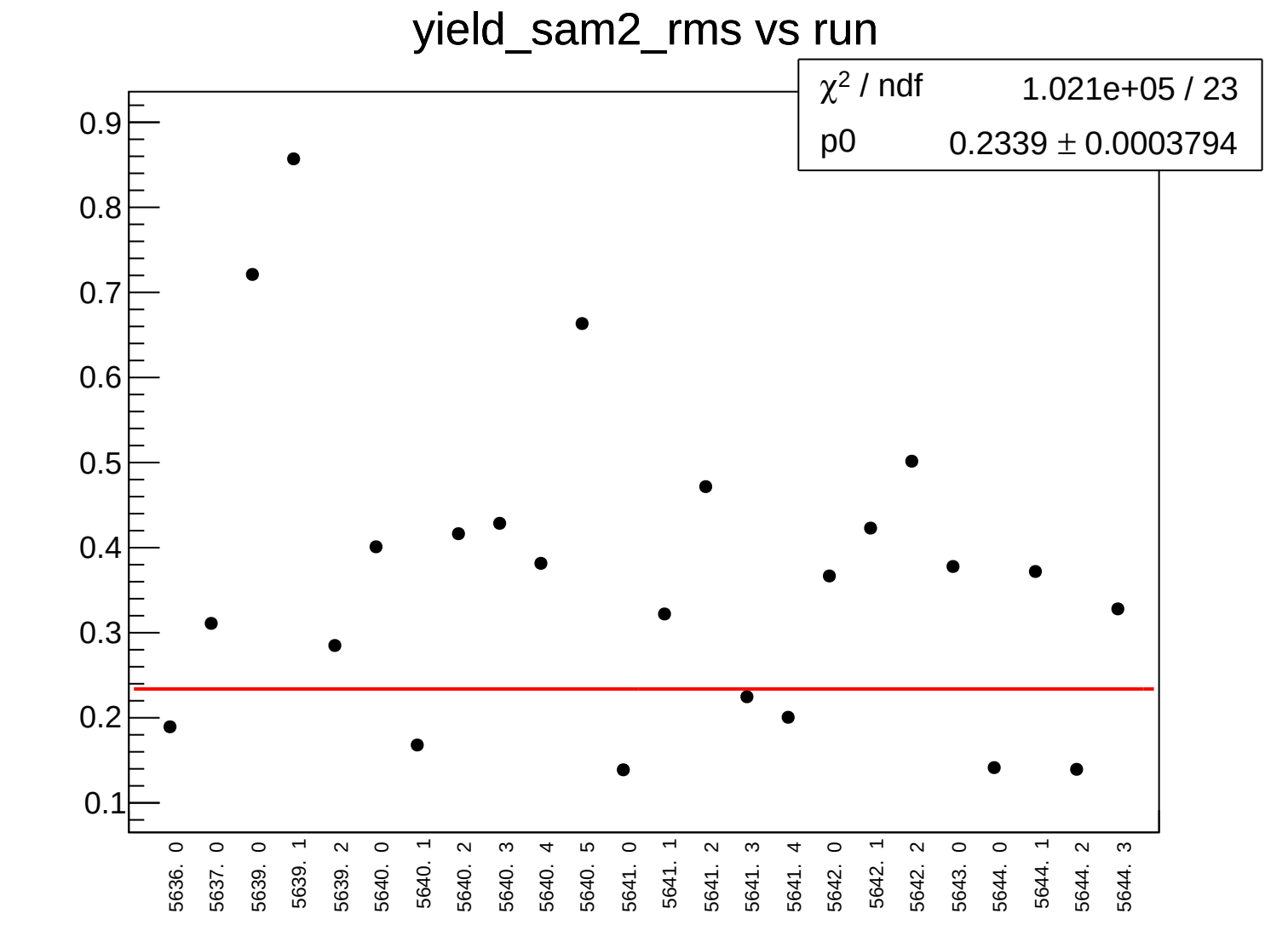

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

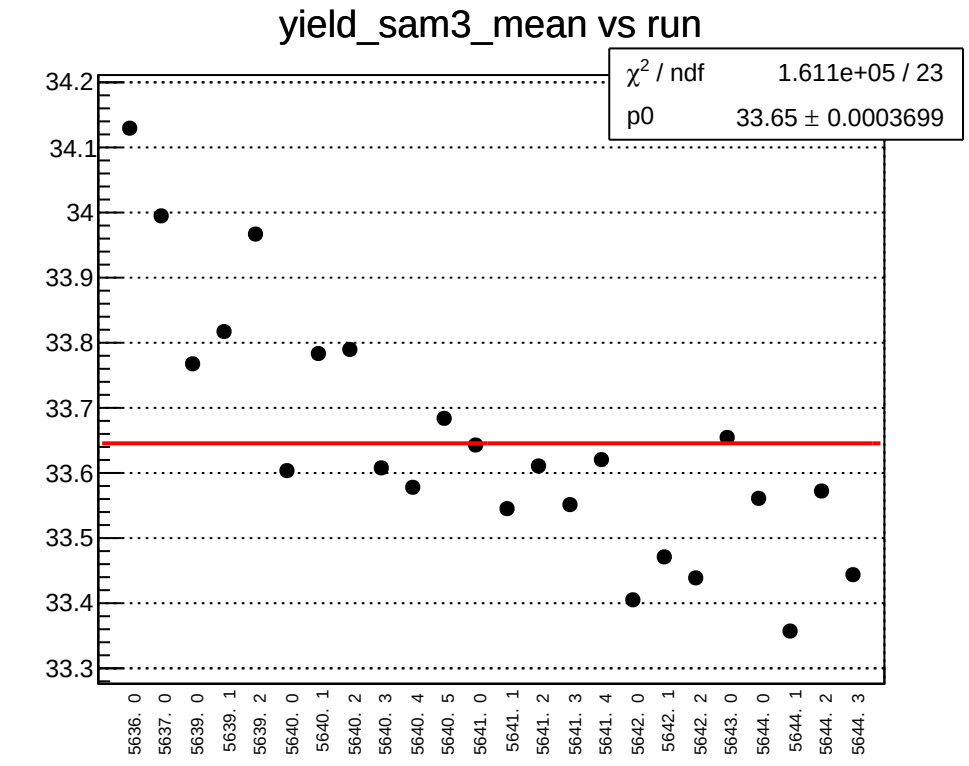

yield_sam1_rms vs run
χ² / ndf 6.63e+04 / 23
p0 0.02087 ± 3.236e−05
0.06
0.05
0.04
0.03
0.02
0.01
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

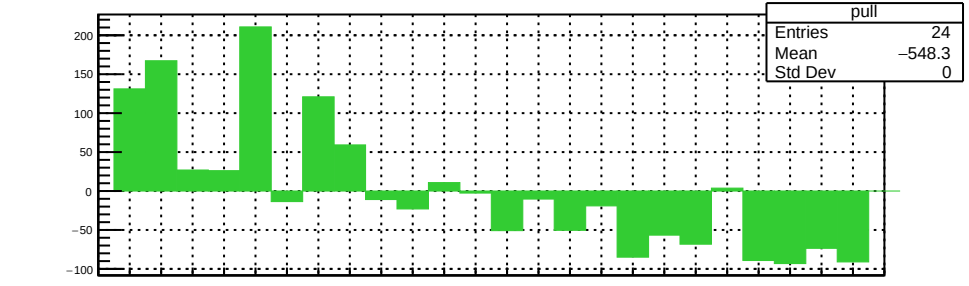

yield_sam2_mean vs run
χ² / ndf 5.792e+04 / 23
p0 18.21± 0.0005365
18.4
18.3
18.2
18.1
18
17.9
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

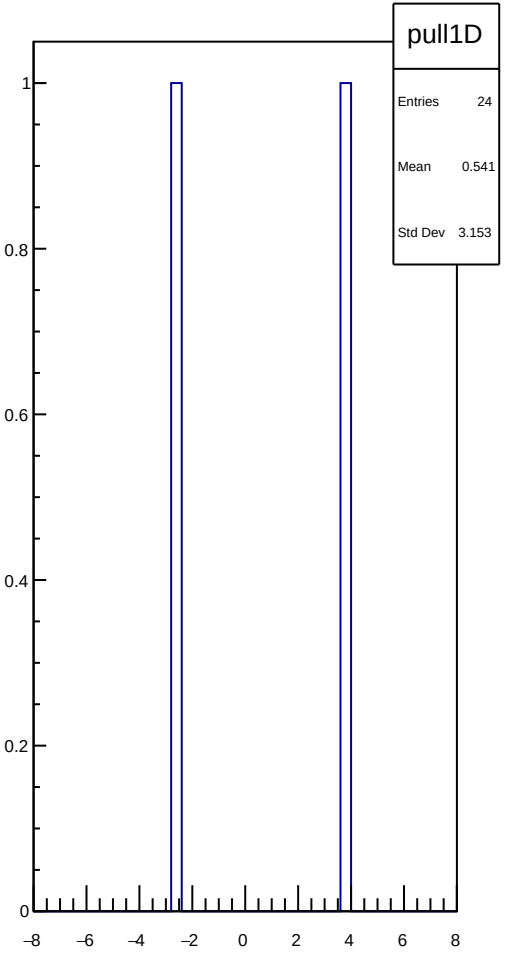

pull
Entries 24
Mean 3.097
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

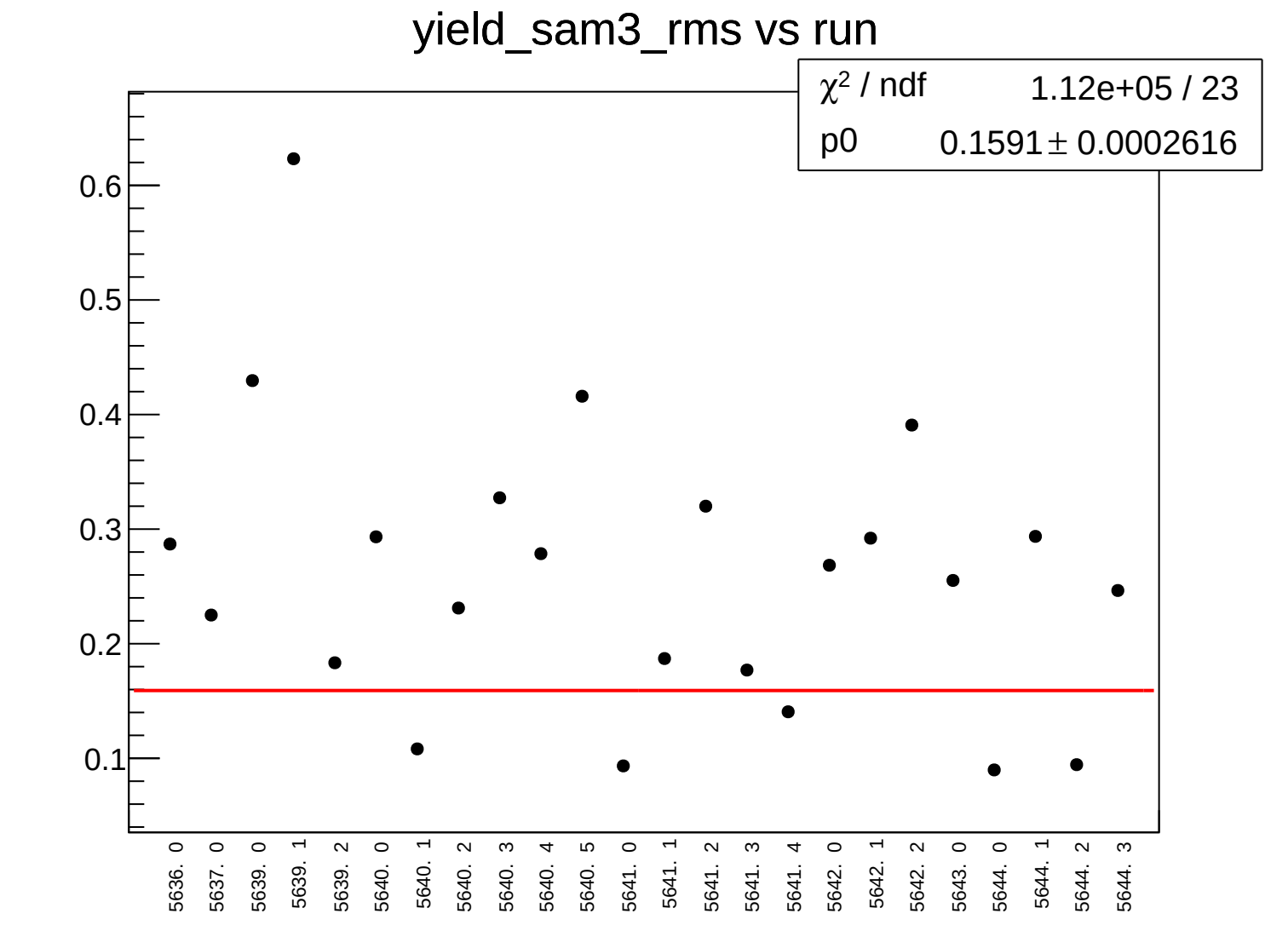

pull1D
Entries 24
Mean −2.988
Std Dev 5.201
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

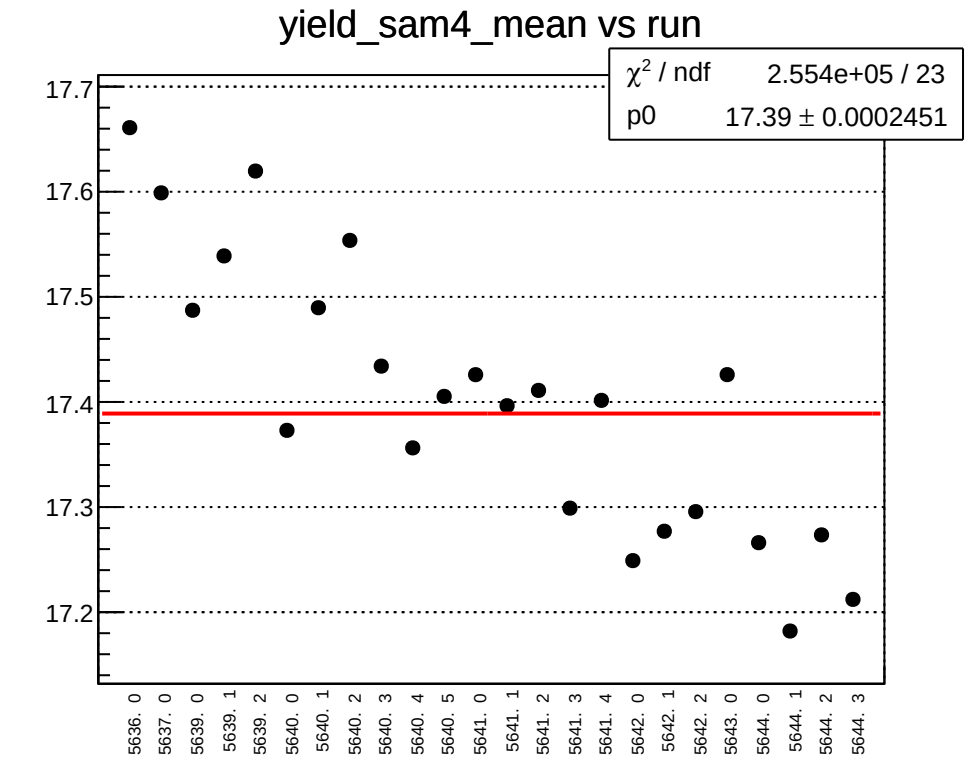

yield_sam2_rms vs run
χ² / ndf 1.021e+05 / 23
p0 0.2339 ± 0.0003794
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

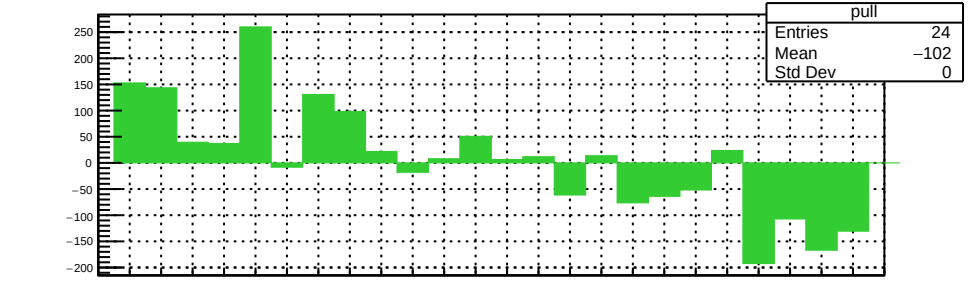

yield_sam3_mean vs run
χ² / ndf 1.611e+05 / 23
p0 33.65 ± 0.0003699
34.2
34.1
34
33.9
33.8
33.7
33.6
33.5
33.4
33.3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

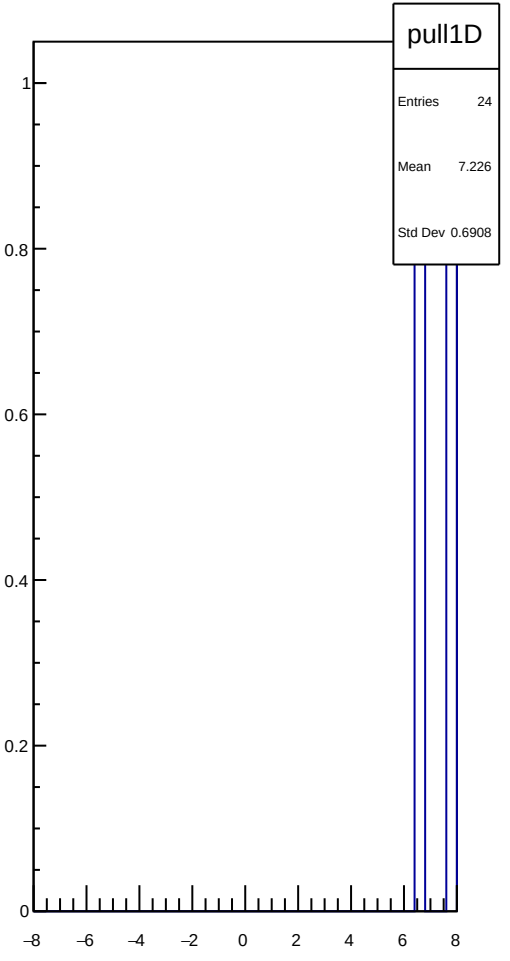

pull
Entries 24
Mean −548.3
Std Dev 0
200
150
100
50
0
−50
−100

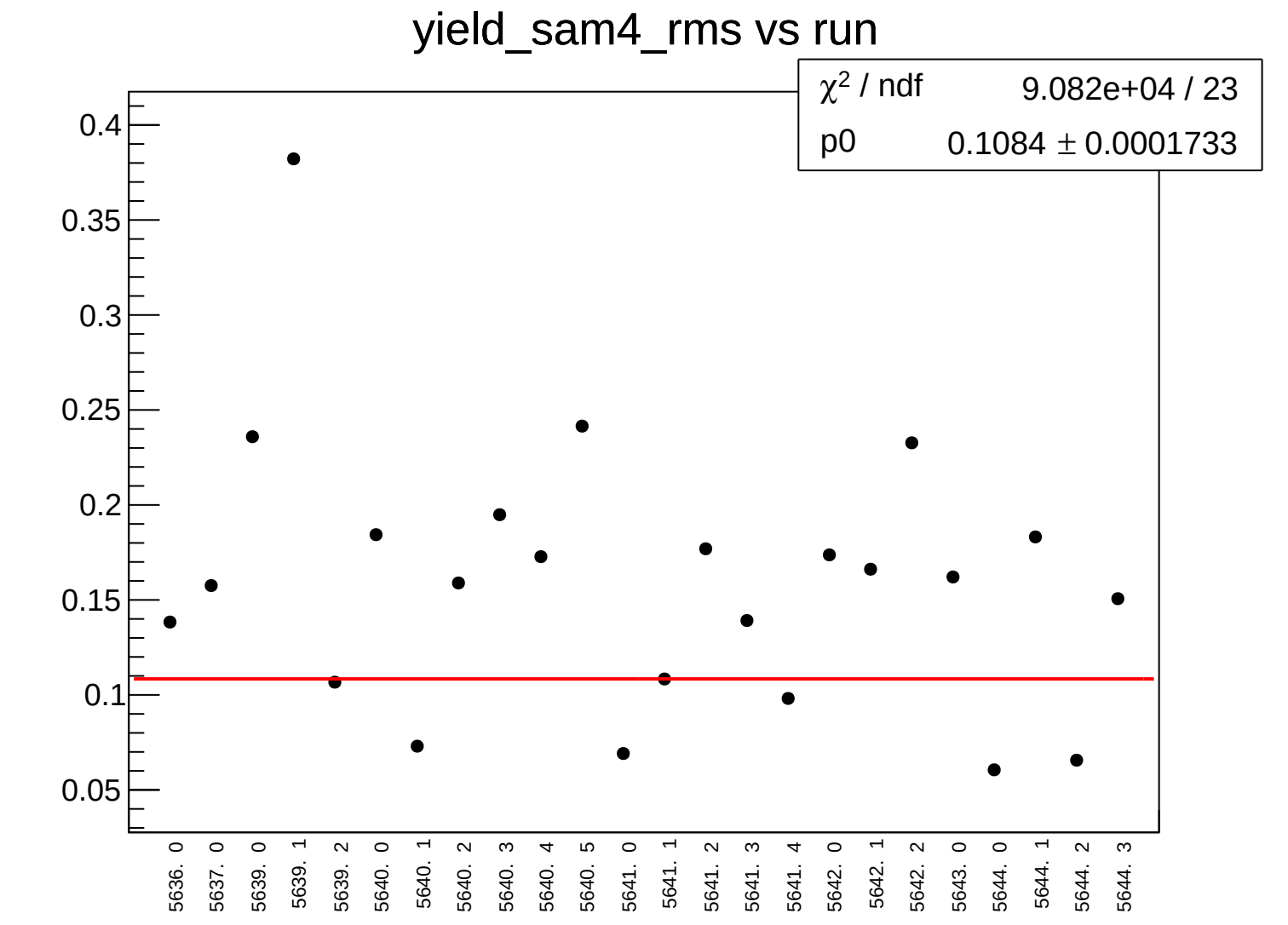

pull1D
Entries 24
Mean 0.541
Std Dev 3.153
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

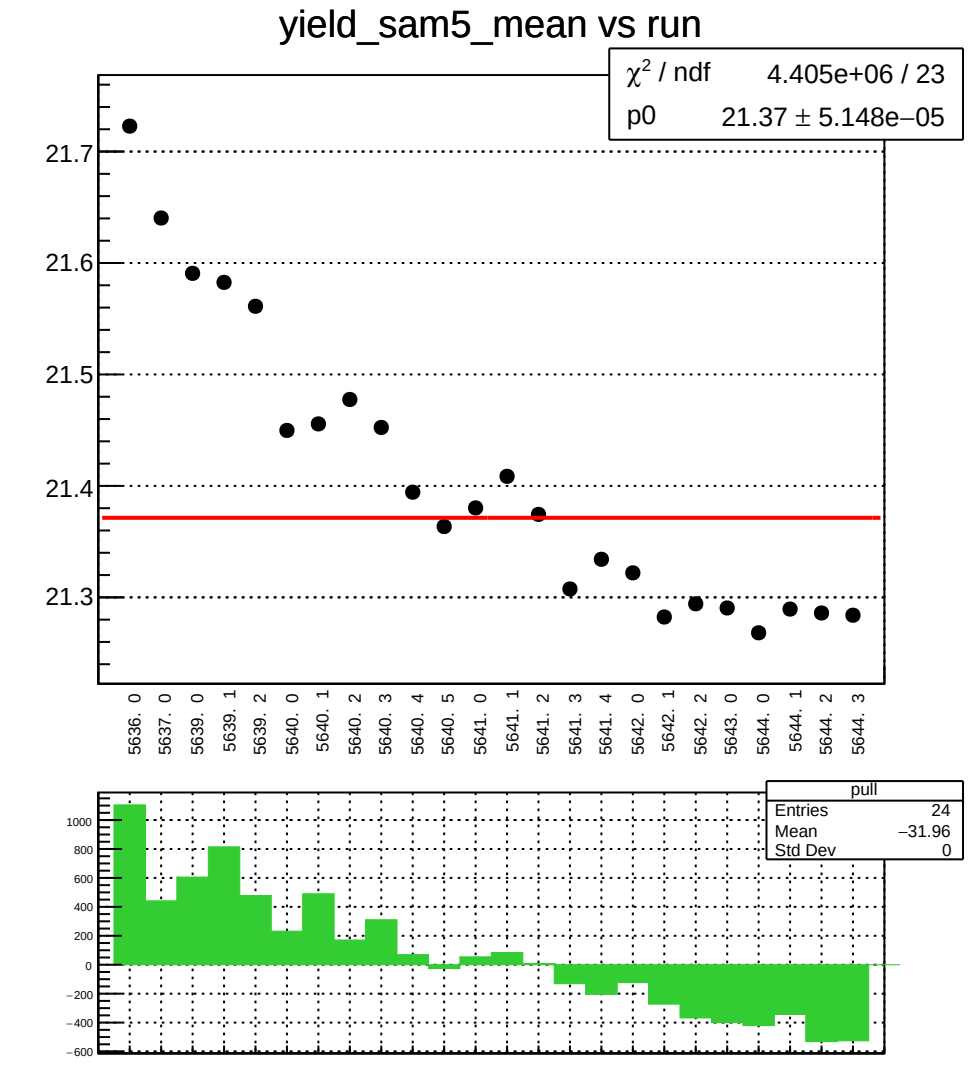

yield_sam3_rms vs run
χ² / ndf 1.12e+05 / 23
p0 0.1591 ± 0.0002616
0.6
0.5
0.4
0.3
0.2
0.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

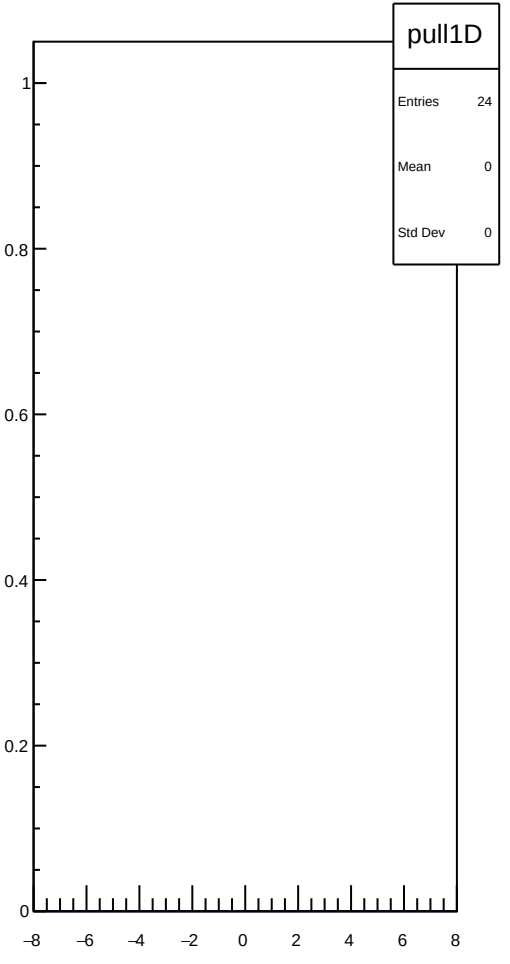

yield_sam4_mean vs run
χ² / ndf 2.554e+05 / 23
p0 17.39 ± 0.0002451
17.7
17.6
17.5
17.4
17.3
17.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

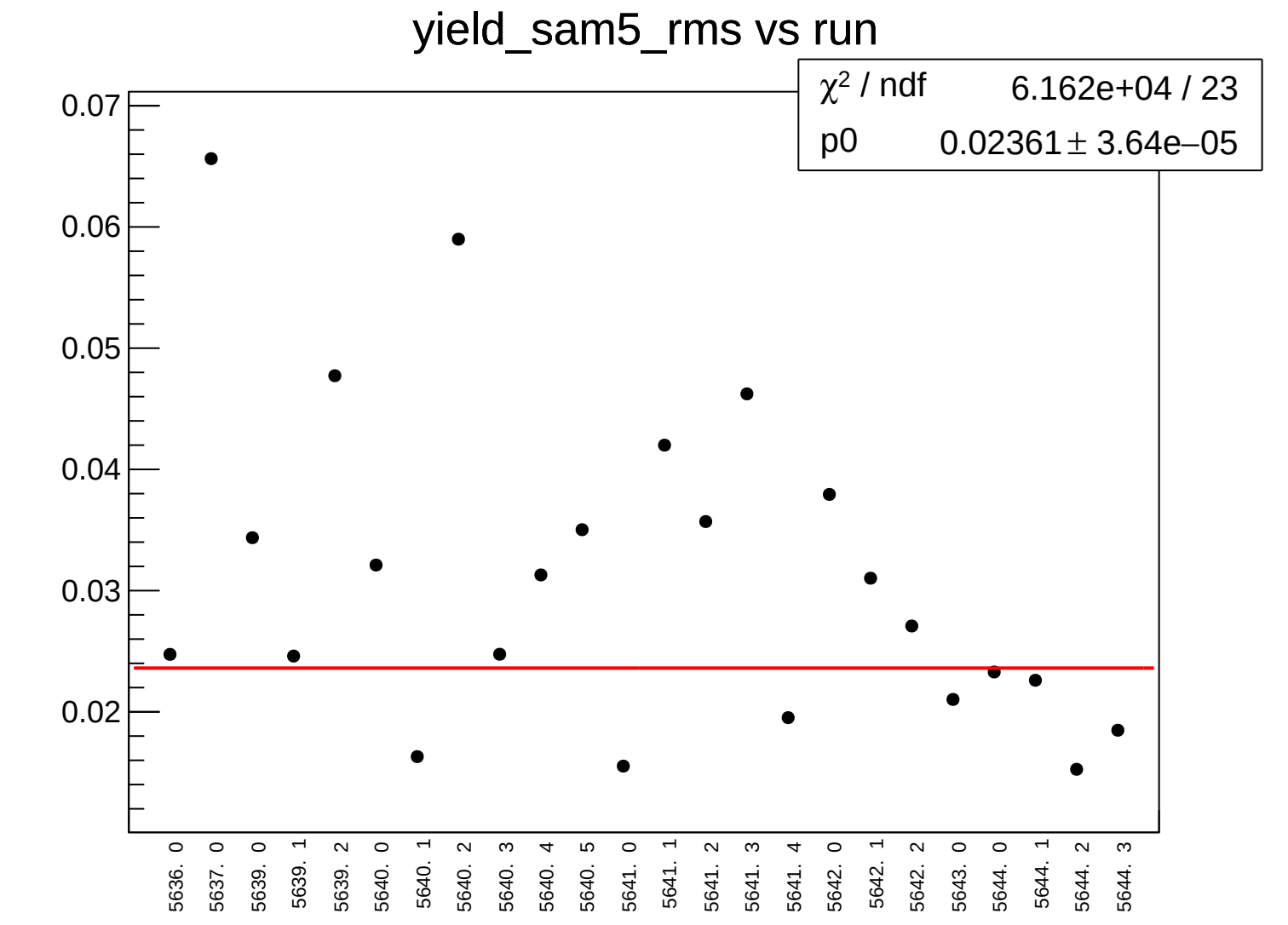

pull
Entries 24
Mean −102
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
−200

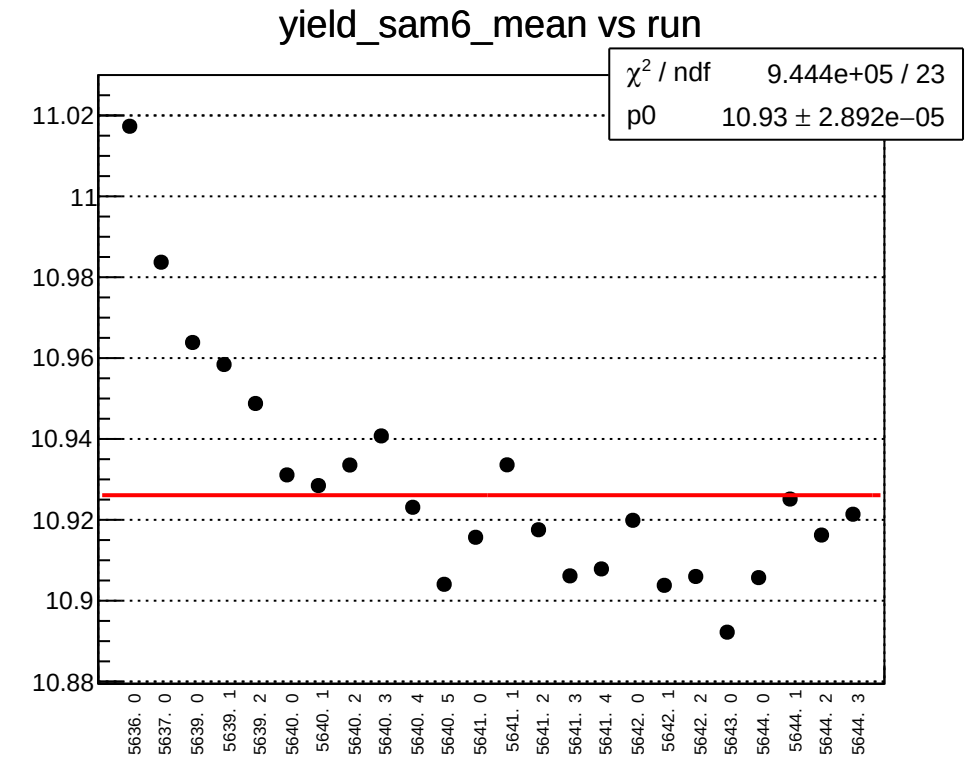

pull1D
Entries 24
Mean 7.226
Std Dev 0.6908
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

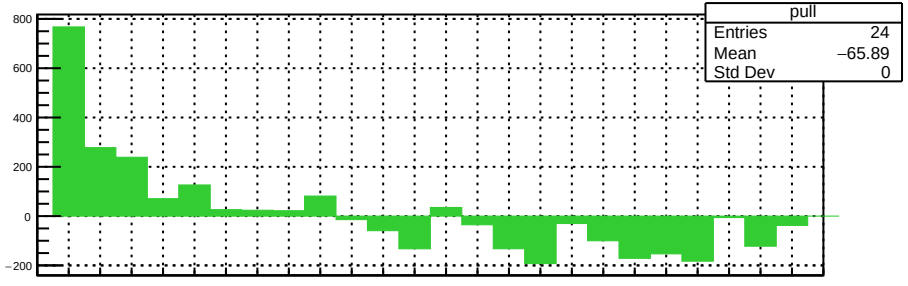

yield_sam4_rms vs run
χ² / ndf 9.082e+04 / 23
p0 0.1084 ± 0.0001733
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

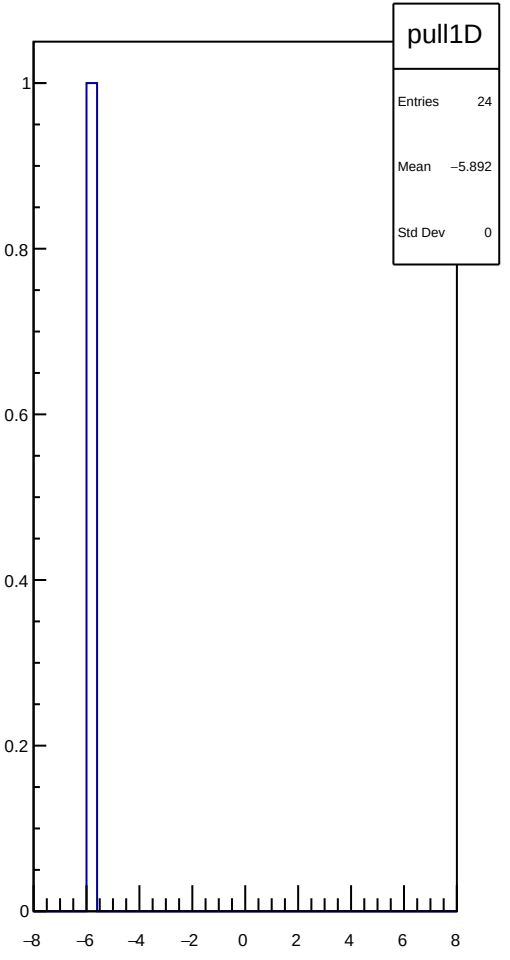

yield_sam5_mean vs run
χ² / ndf 4.405e+06 / 23
p0 21.37 ± 5.148e−05
21.7
21.6
21.5
21.4
21.3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −31.96
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600

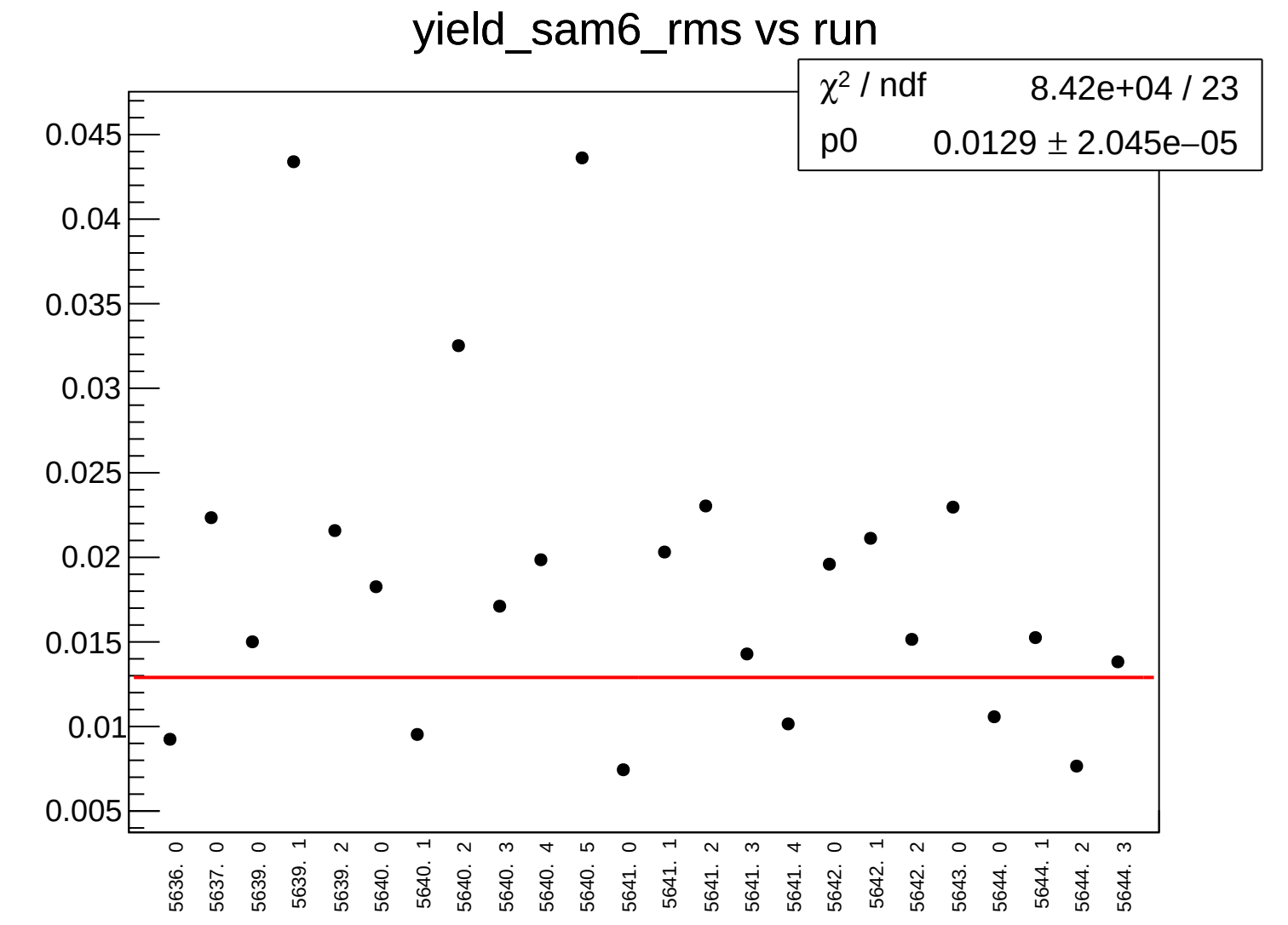

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

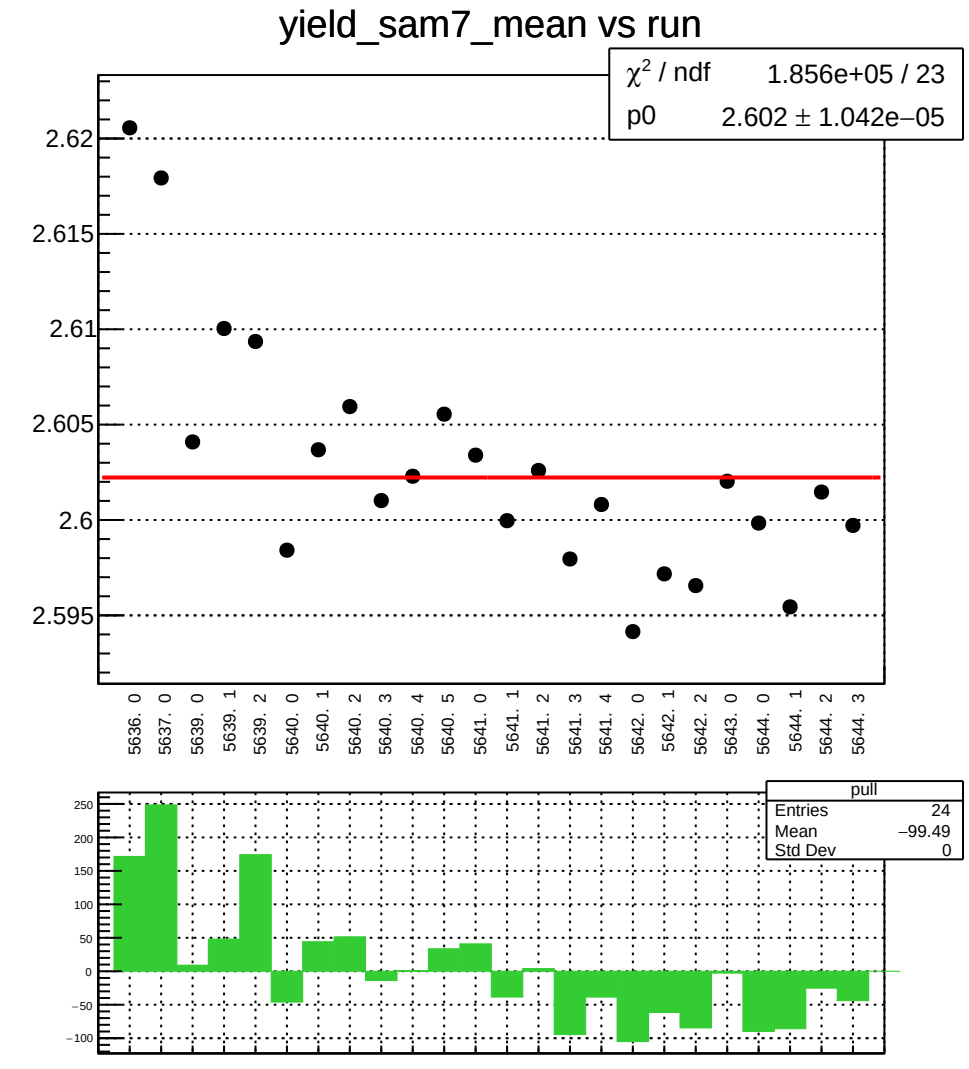

yield_sam5_rms vs run
χ² / ndf 6.162e+04 / 23
p0 0.02361 ± 3.64e–05
0.07
0.06
0.05
0.04
0.03
0.02
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

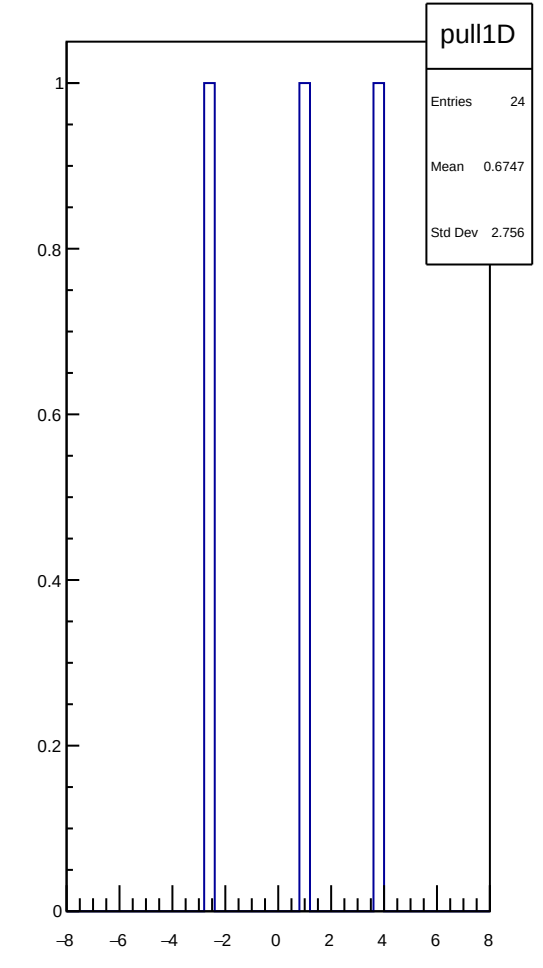

yield_sam6_mean vs run
χ² / ndf 9.444e+05 / 23
p0 10.93 ± 2.892e−05
11.02
11
10.98
10.96
10.94
10.92
10.9
10.88
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

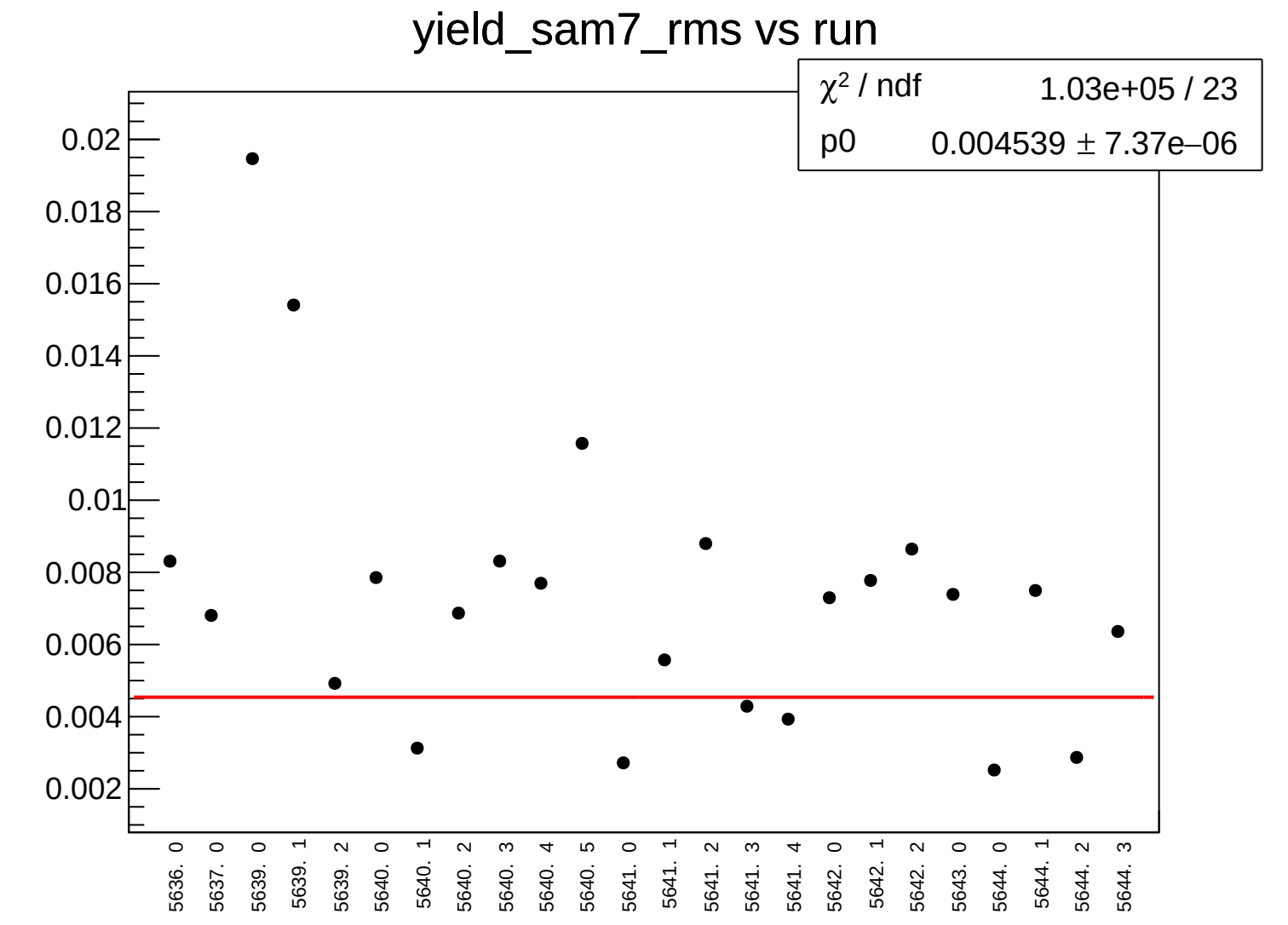

pull
Entries 24
Mean −65.89
Std Dev 0
800
600
400
200
0
−200

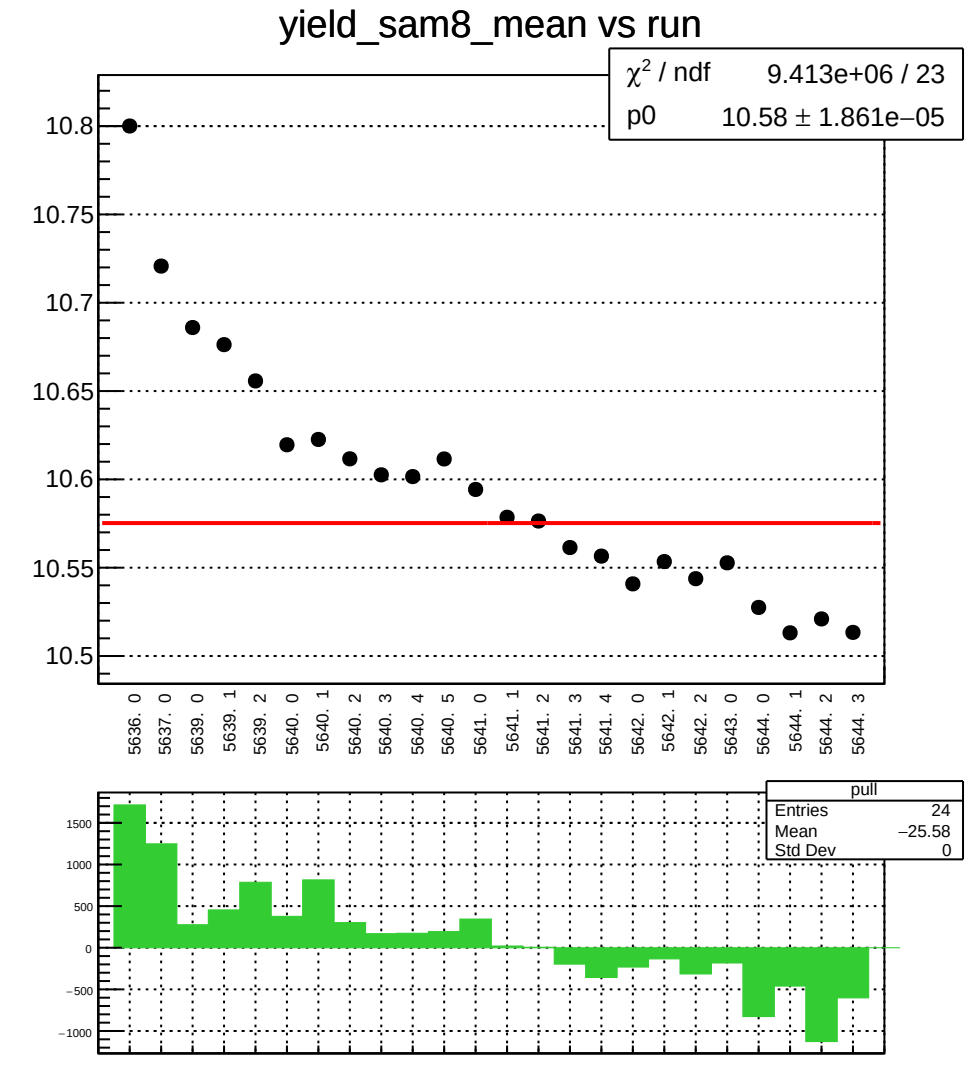

pull1D
Entries 24
Mean −5.892
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

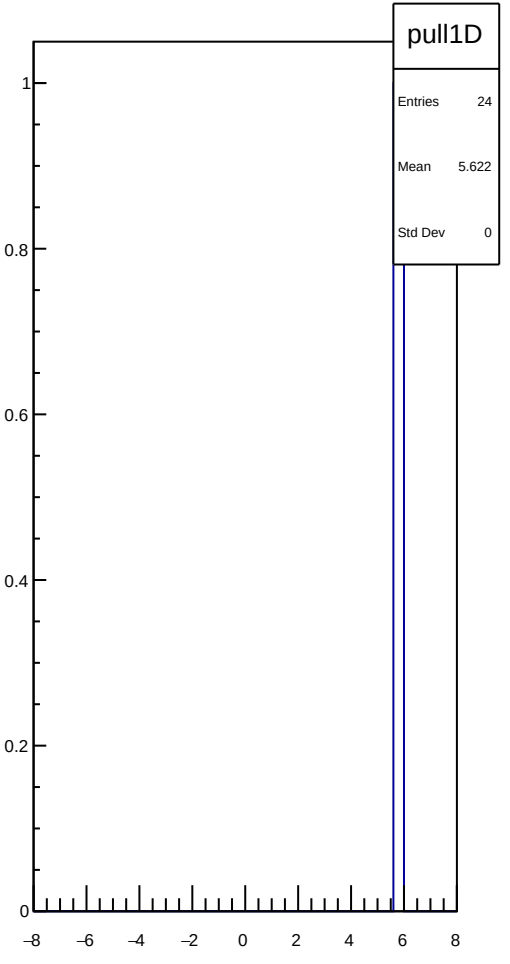

yield_sam6_rms vs run
χ² / ndf 8.42e+04 / 23
p0 0.0129 ± 2.045e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

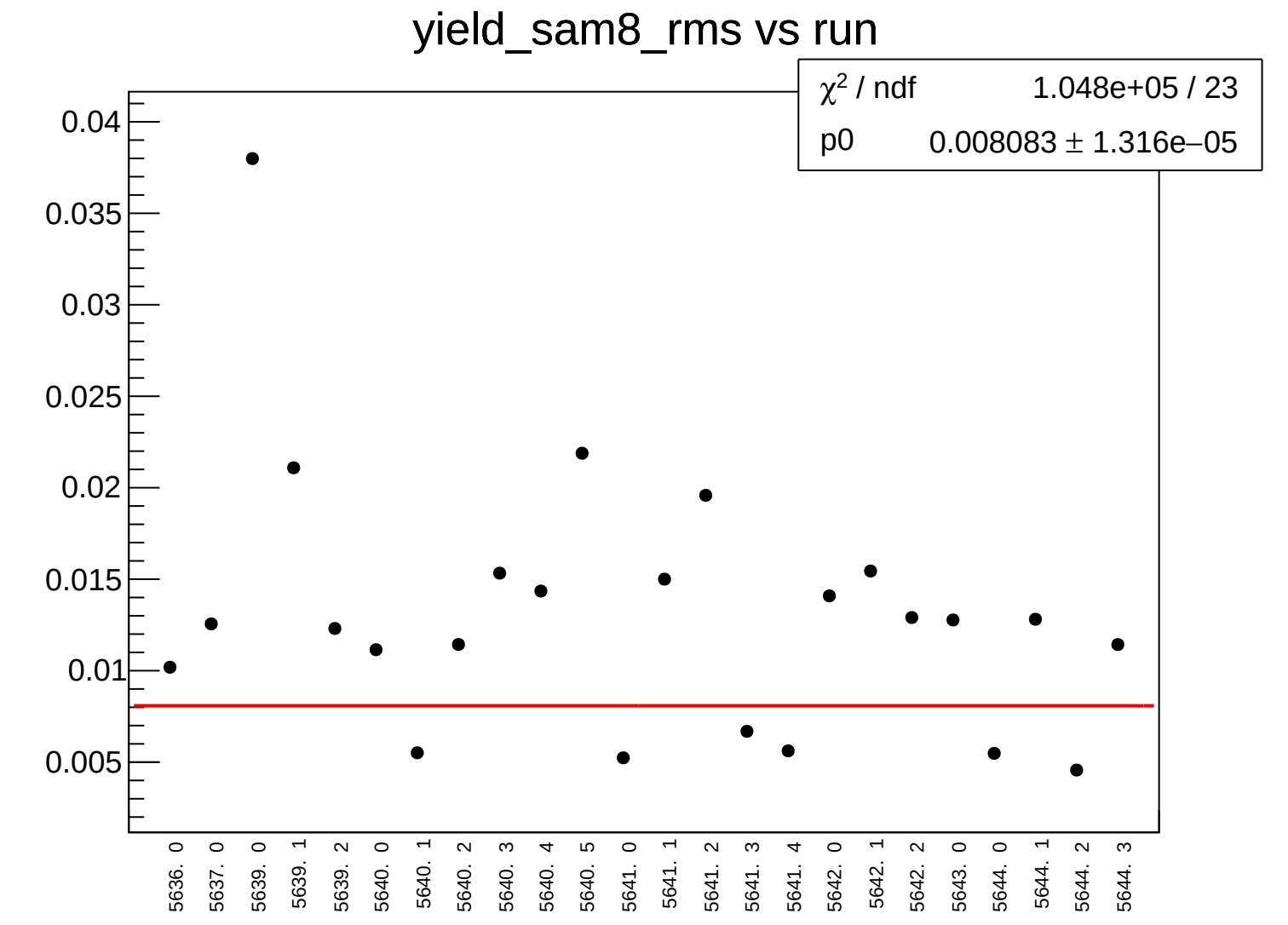

yield_sam7_mean vs run
χ² / ndf 1.856e+05 / 23
p0 2.602 ± 1.042e−05
2.62
2.615
2.61
2.605
2.6
2.595
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −99.49
Std Dev 0
250
200
150
100
50
0
−50
−100

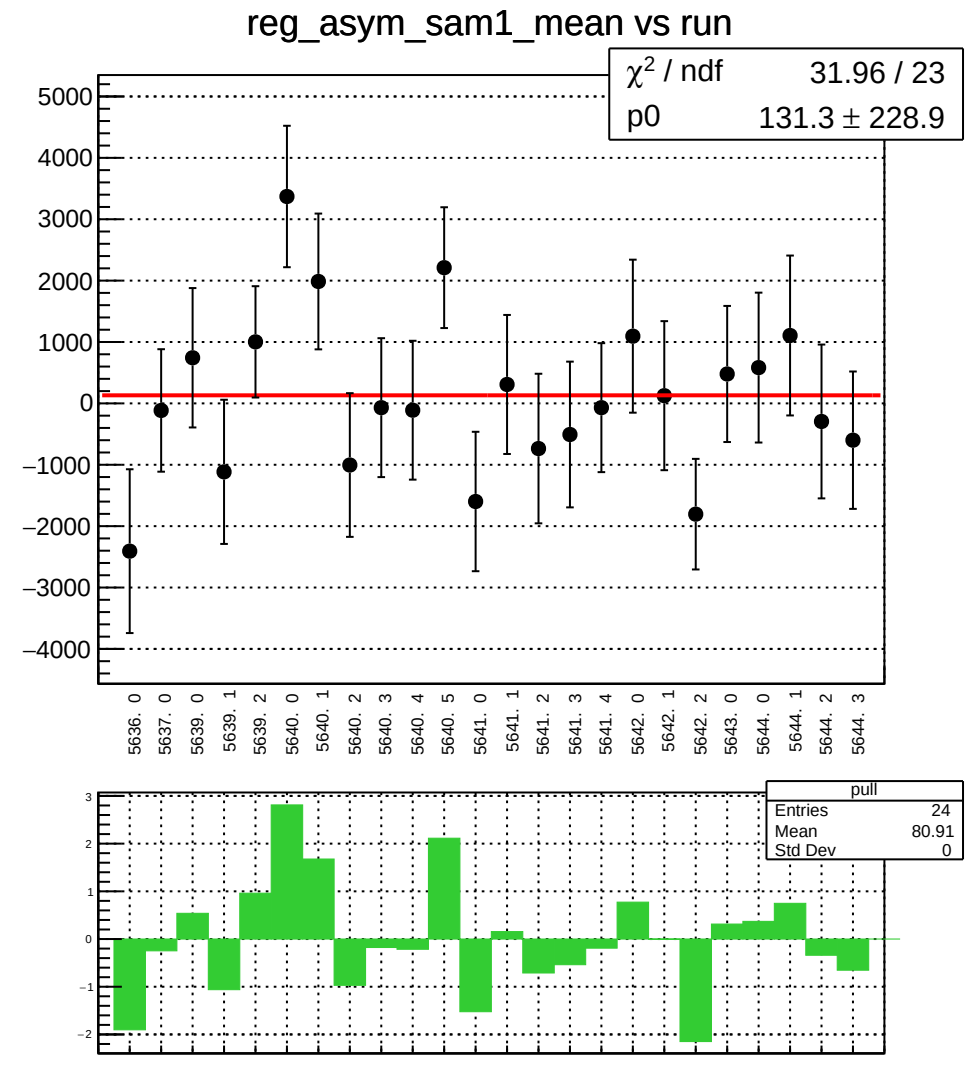

pull1D
Entries 24
Mean 0.6747
Std Dev 2.756
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

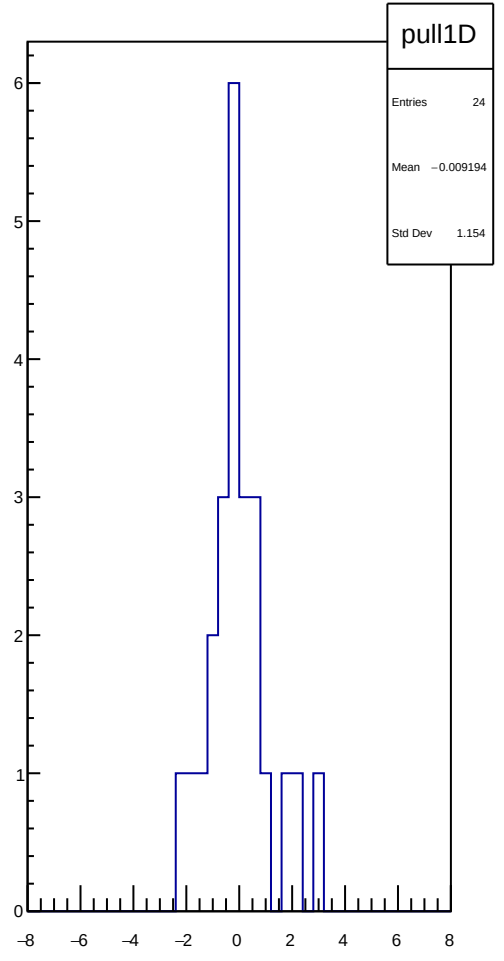

yield_sam7_rms vs run
χ² / ndf 1.03e+05 / 23
p0 0.004539 ± 7.37e–06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

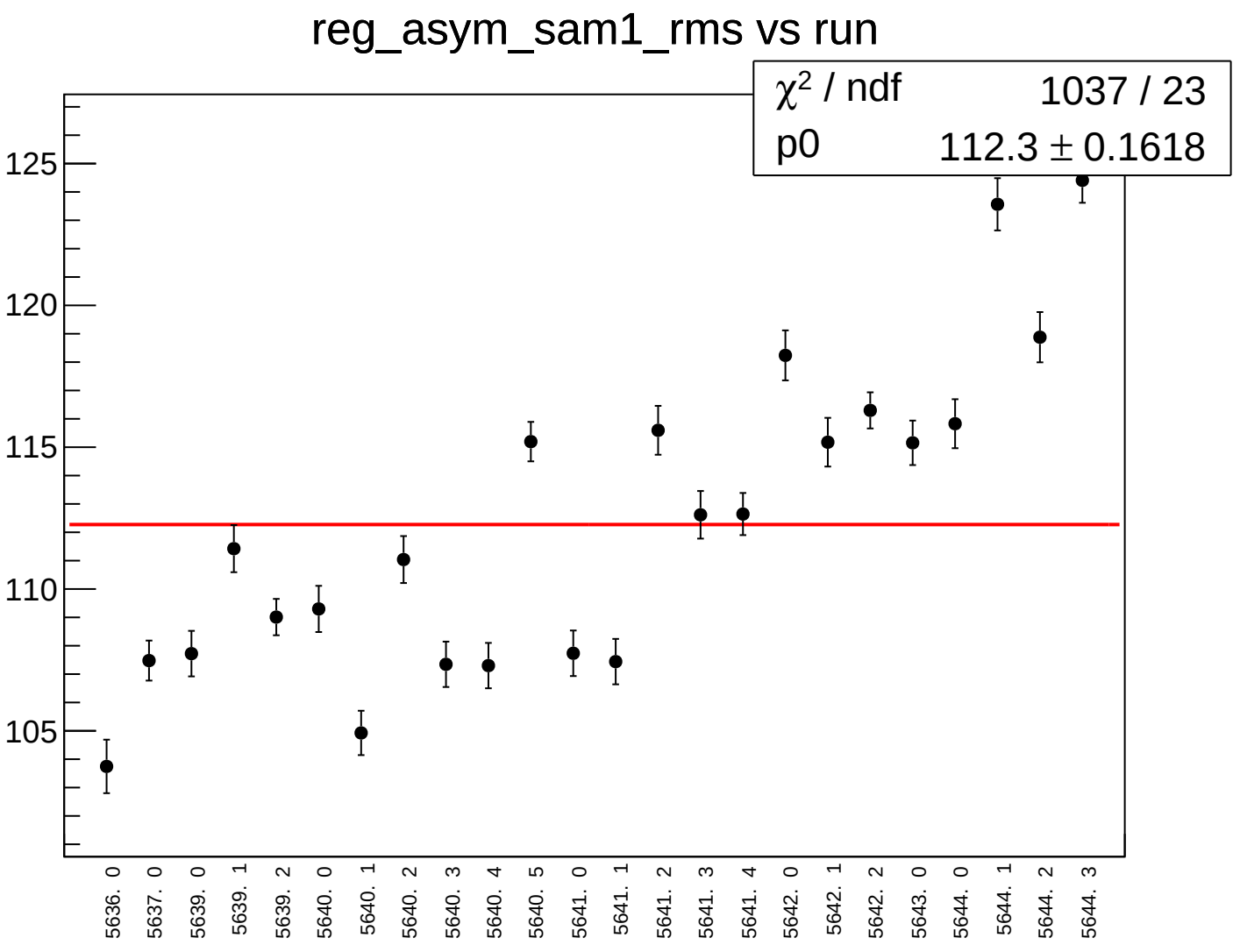

yield_sam8_mean vs run
χ² / ndf 9.413e+06 / 23
p0 10.58 ± 1.861e−05
10.8
10.75
10.7
10.65
10.6
10.55
10.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −25.58
Std Dev 0
1500
1000
500
0
−500
−1000

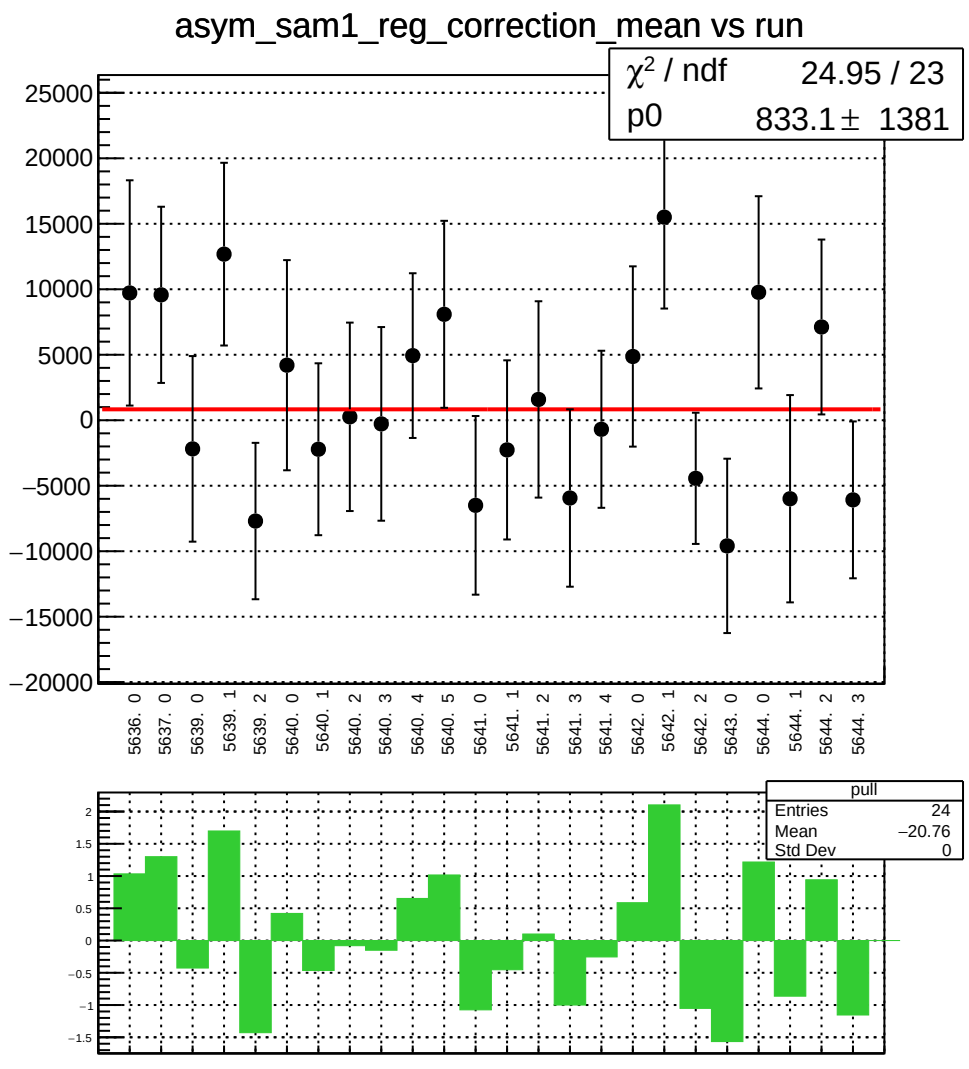

pull1D
Entries 24
Mean 5.622
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

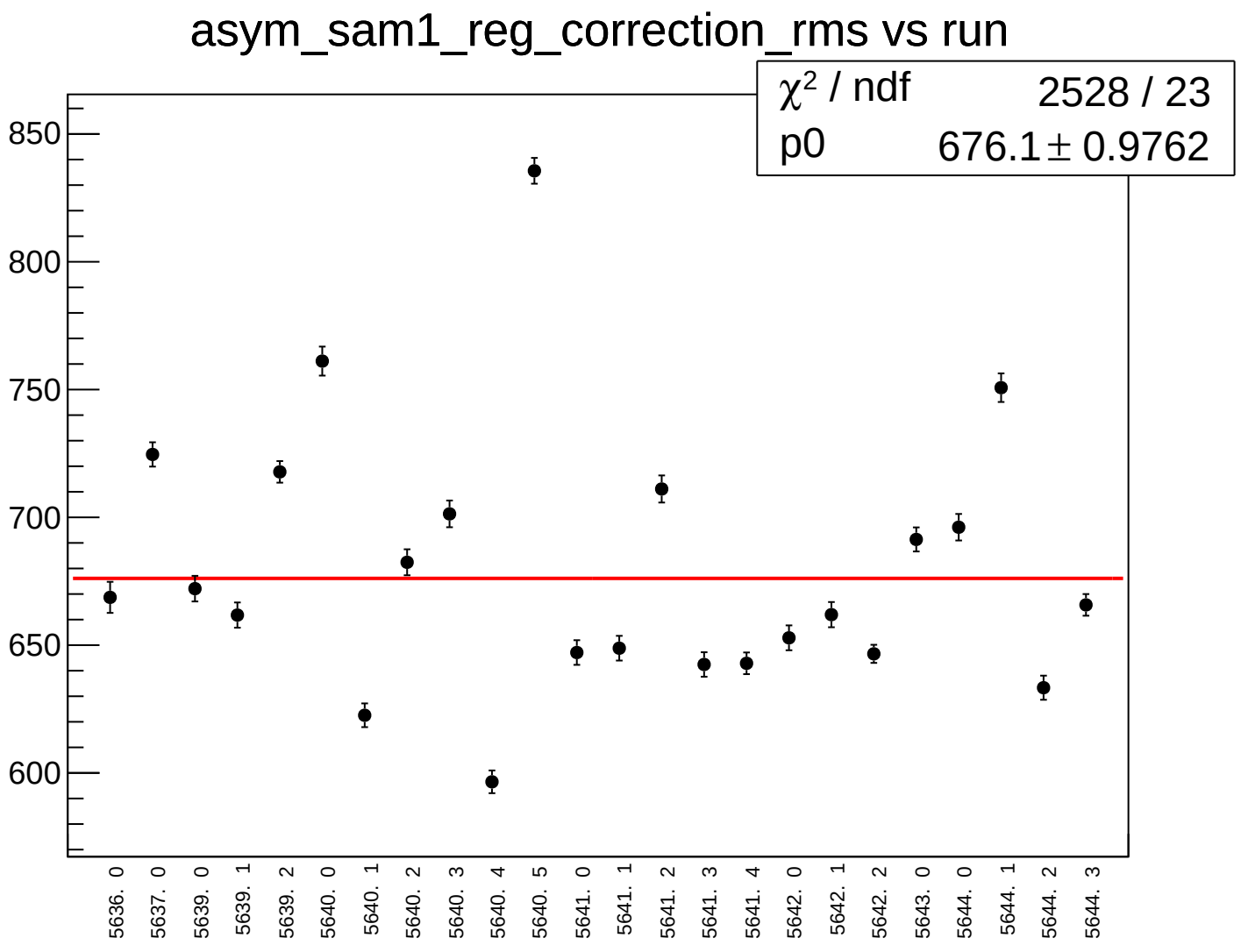

yield_sam8_rms vs run
χ² / ndf 1.048e+05 / 23
p0 0.008083 ± 1.316e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

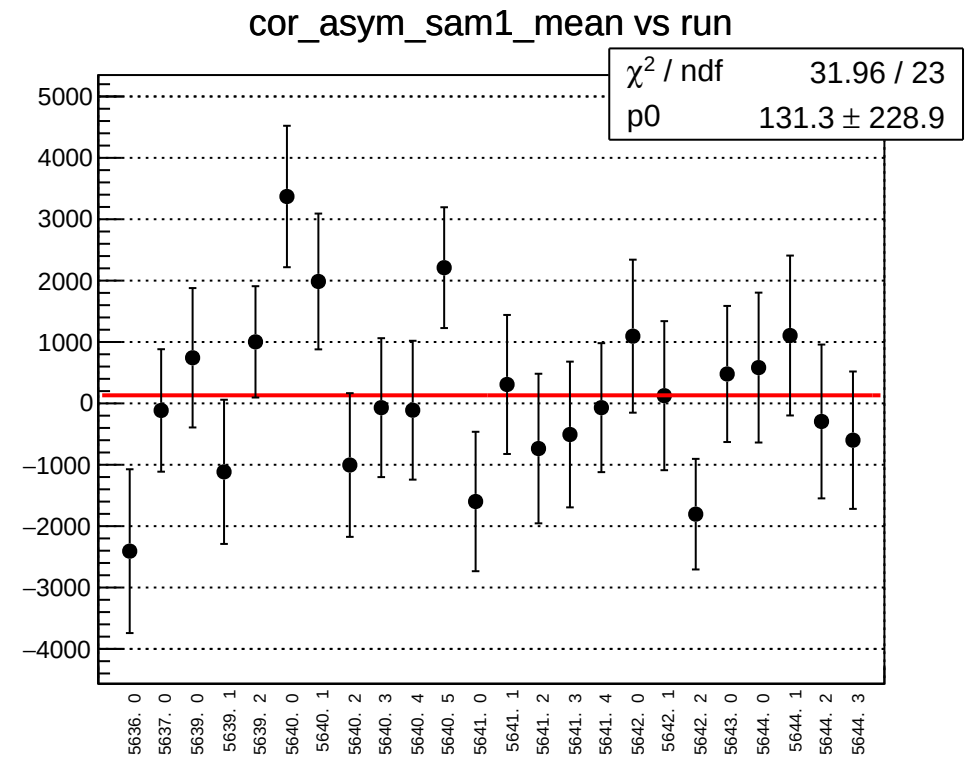

reg_asym_sam1_mean vs run
χ^2 / ndf 31.96 / 23
p0 131.3 ± 228.9
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 80.91
Std Dev 0
3
2
1
0
−1
−2

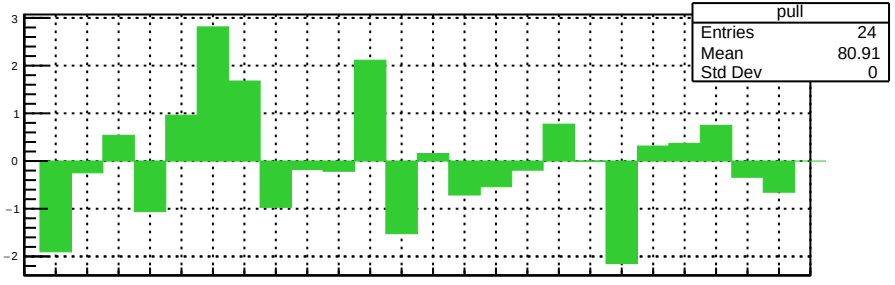

pull1D
Entries 24
Mean −0.009194
Std Dev 1.154
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

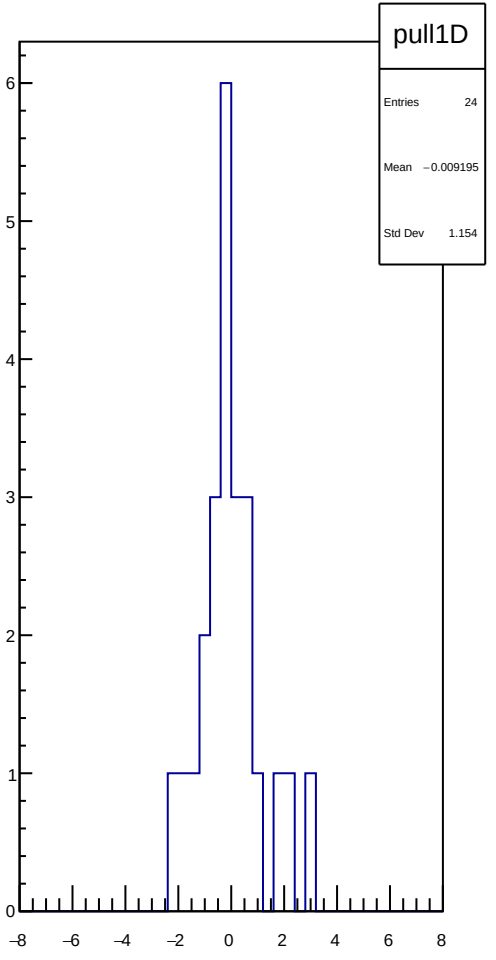

reg_asym_sam1_rms vs run
χ² / ndf 1037 / 23
p0 112.3 ± 0.1618
125
120
115
110
105
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

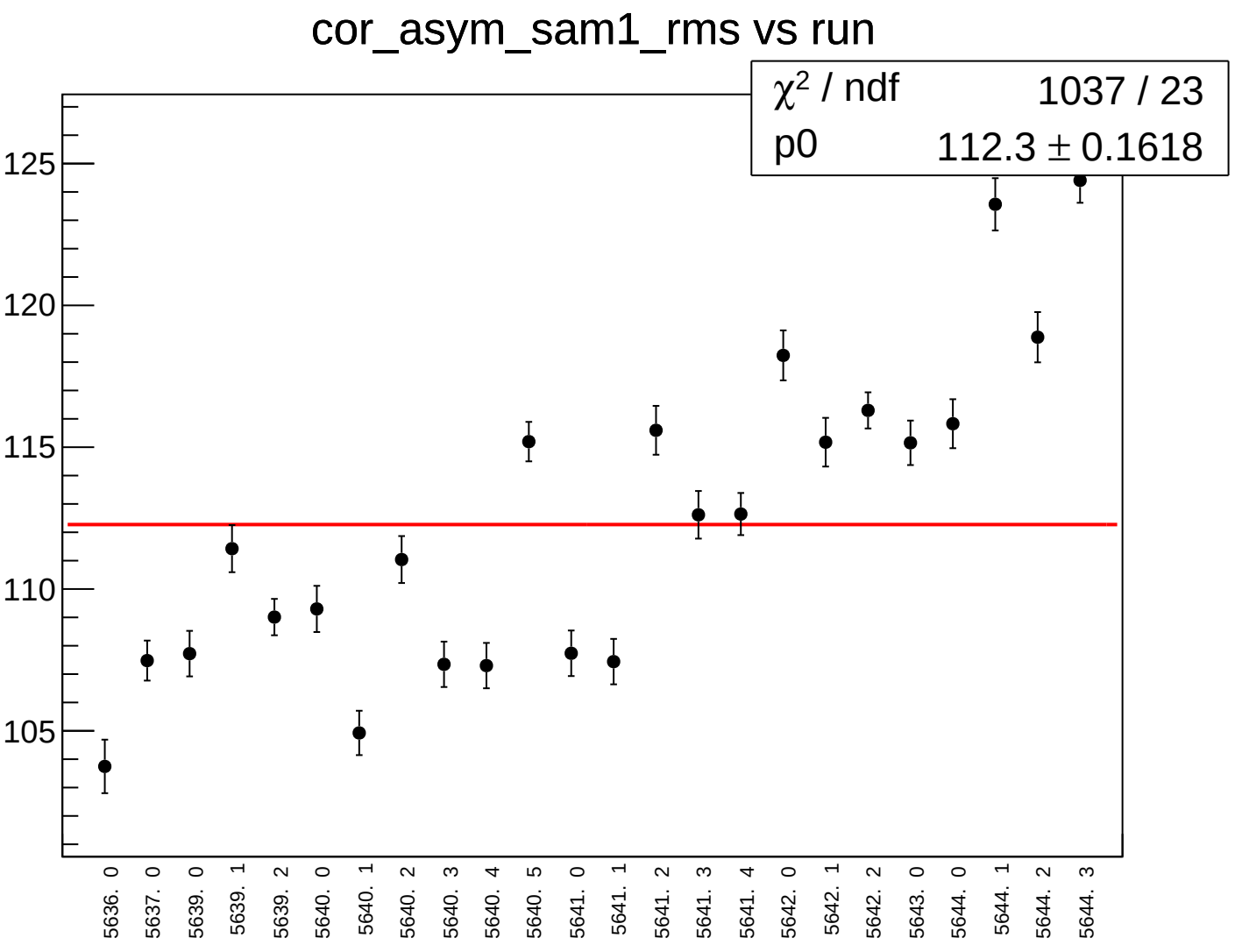

asym_sam1_reg_correction_mean vs run
χ² / ndf 24.95 / 23
p0 833.1 ± 1381
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −20.76
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.04603
Std Dev 1.019
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

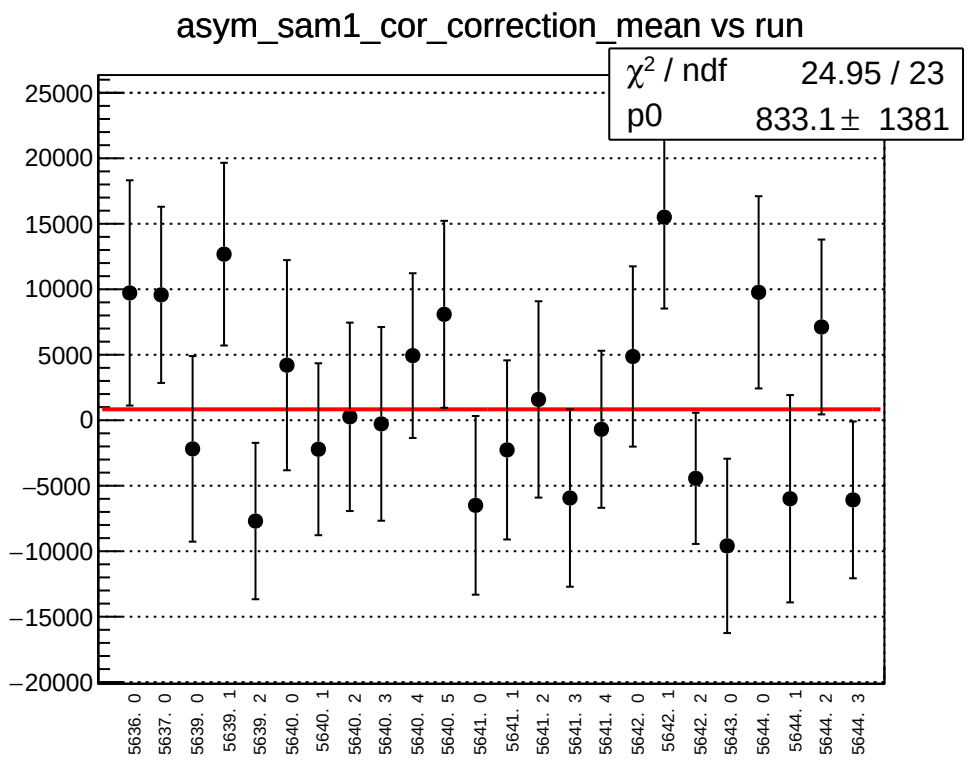

asym_sam1_reg_correction_rms vs run
χ² / ndf 2528 / 23
p0 676.1 ± 0.9762
850
800
750
700
650
600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

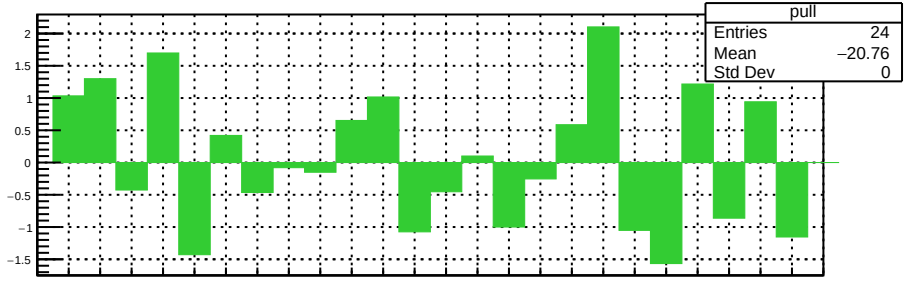

cor_asym_sam1_mean vs run
χ² / ndf 31.96 / 23
p0 131.3 ± 228.9
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

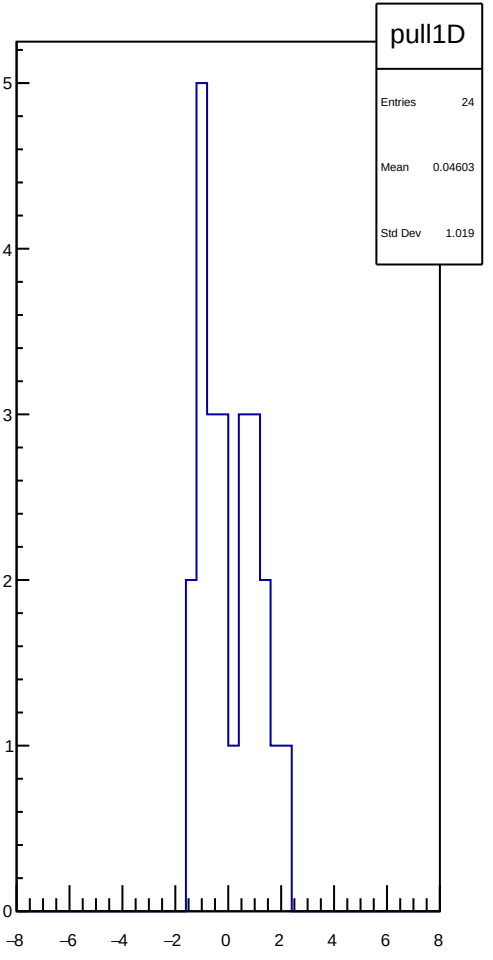

pull
Entries 24
Mean 80.91
Std Dev 0
3
2
1
0
−1
−2

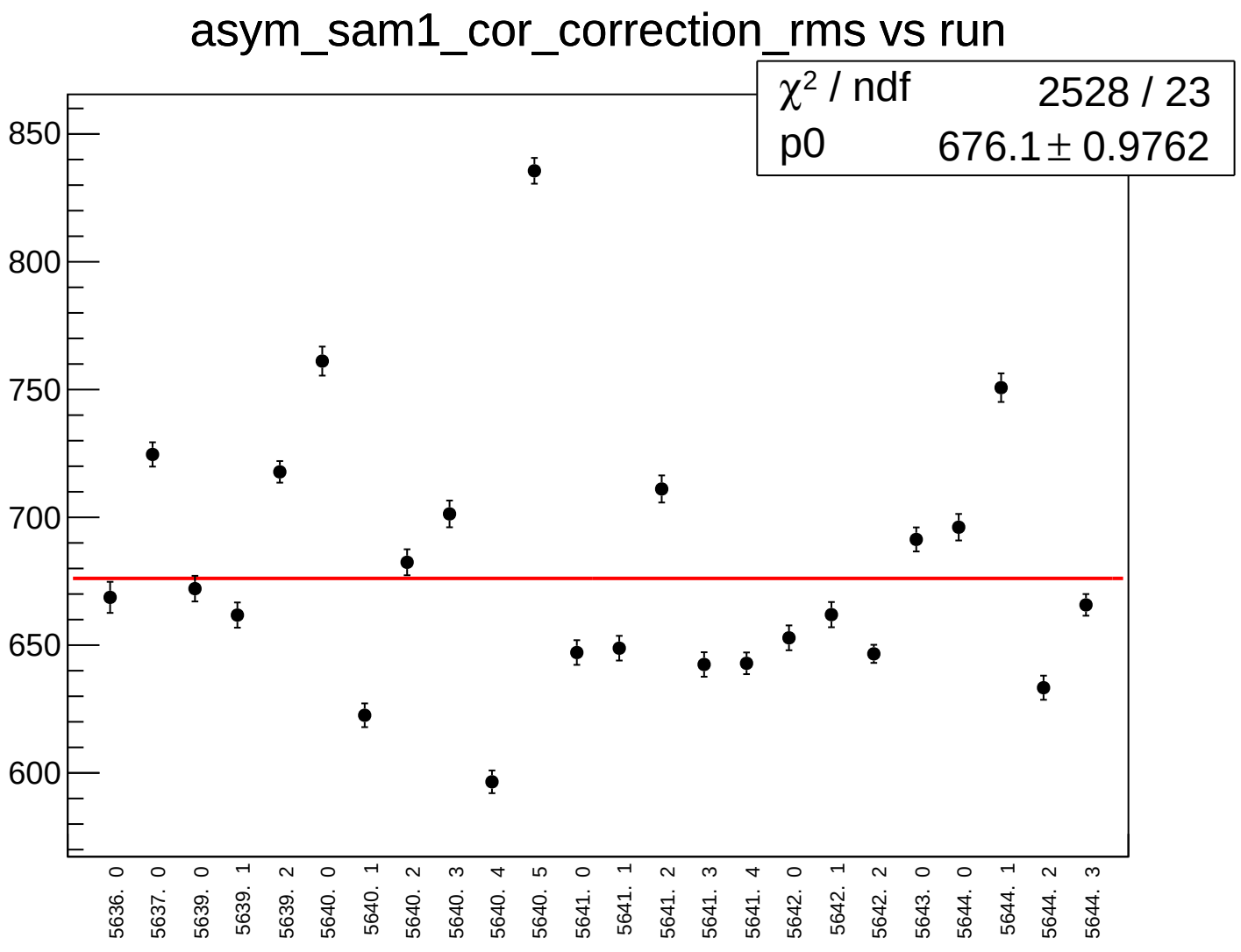

pull1D
Entries 24
Mean −0.009195
Std Dev 1.154
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

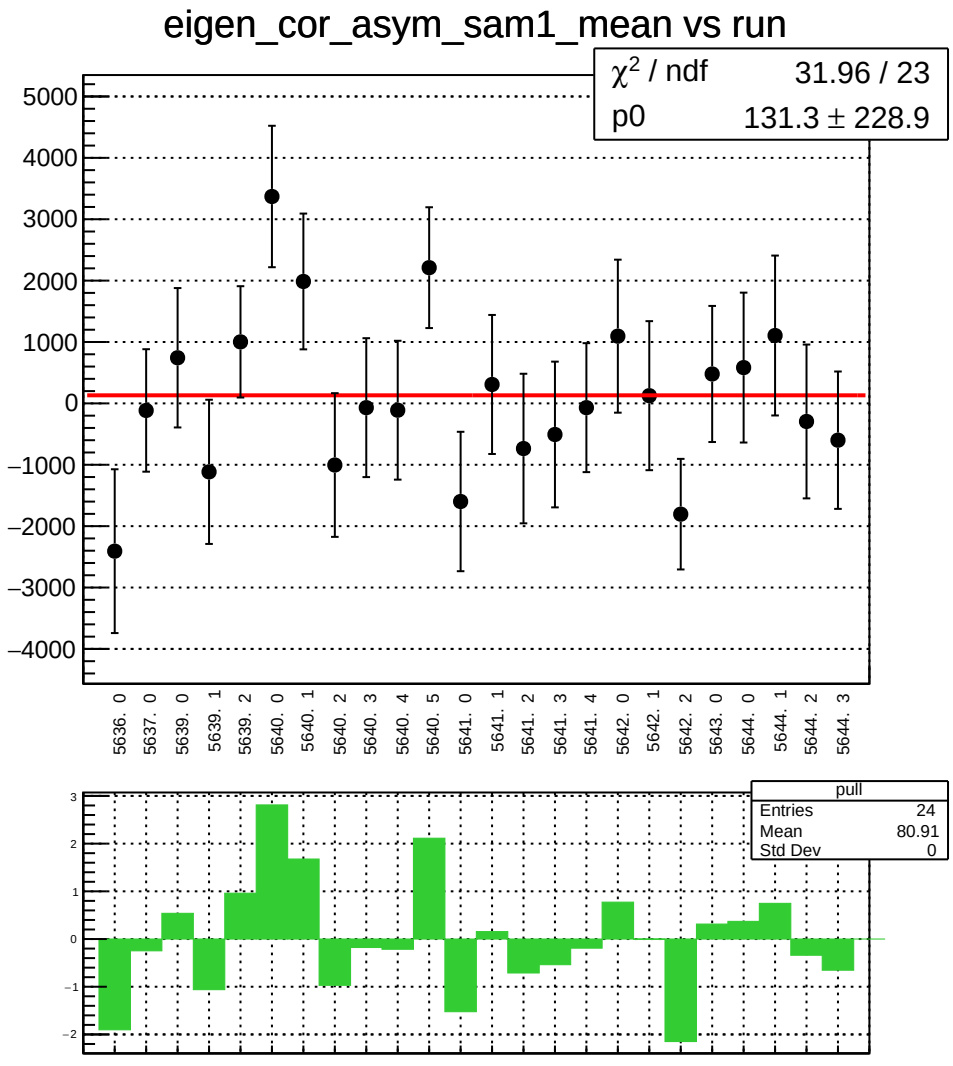

cor_asym_sam1_rms vs run
χ² / ndf 1037 / 23
p0 112.3 ± 0.1618
125
120
115
110
105
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

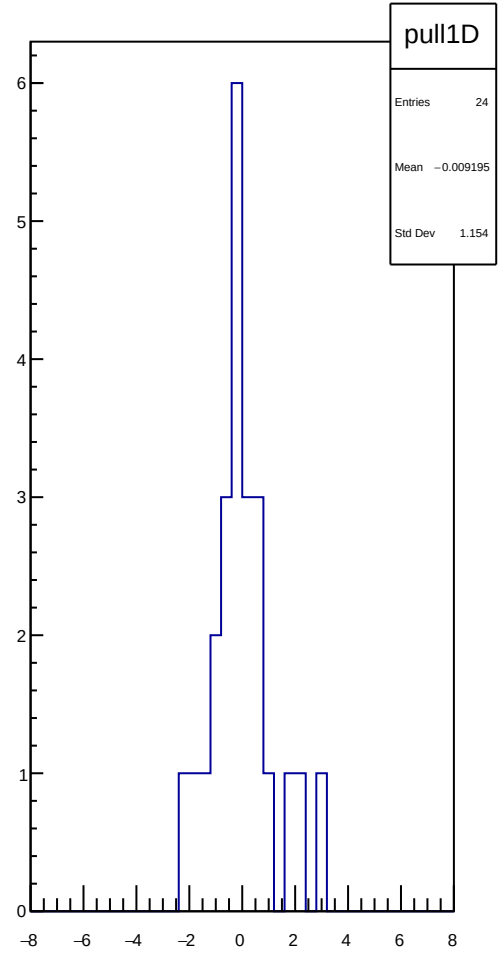

asym_sam1_cor_correction_mean vs run
χ² / ndf 24.95 / 23
p0 833.1 ± 1381
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

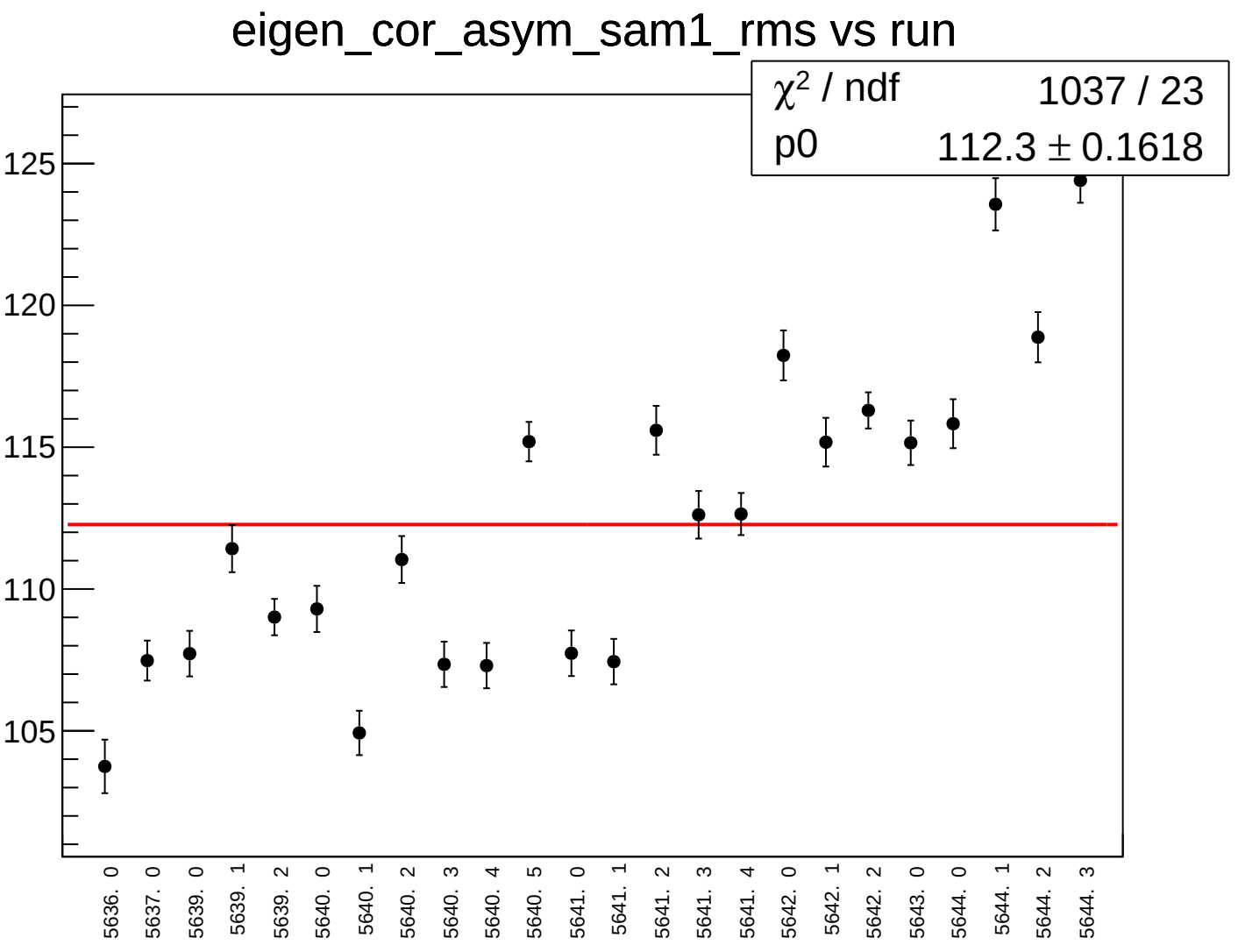

pull
Entries 24
Mean −20.76
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

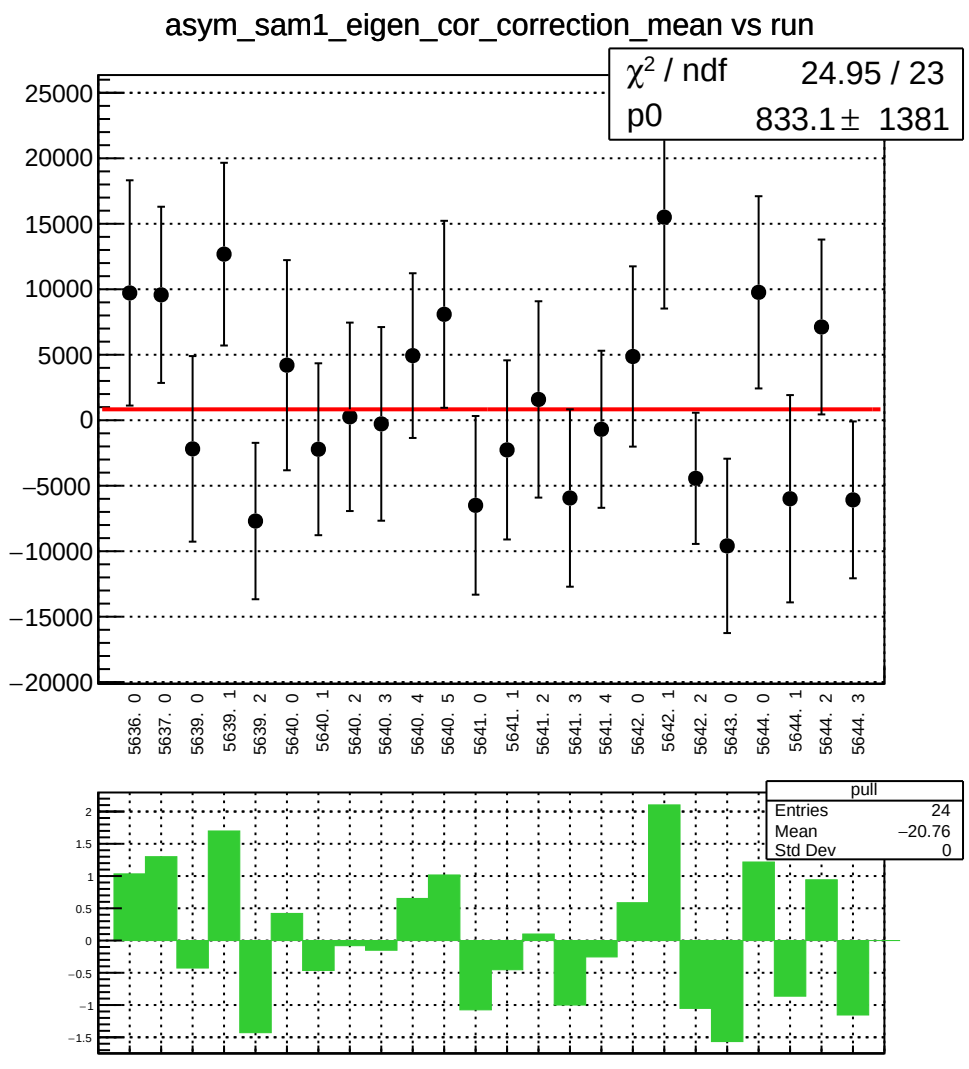

pull1D
Entries 24
Mean 0.04603
Std Dev 1.019
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

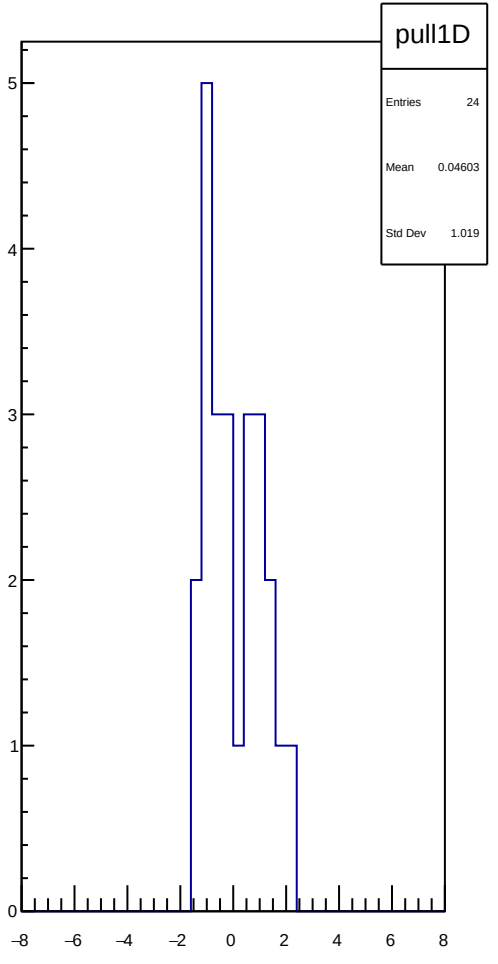

asym_sam1_cor_correction_rms vs run
χ² / ndf 2528 / 23
p0 676.1 ± 0.9762
850
800
750
700
650
600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

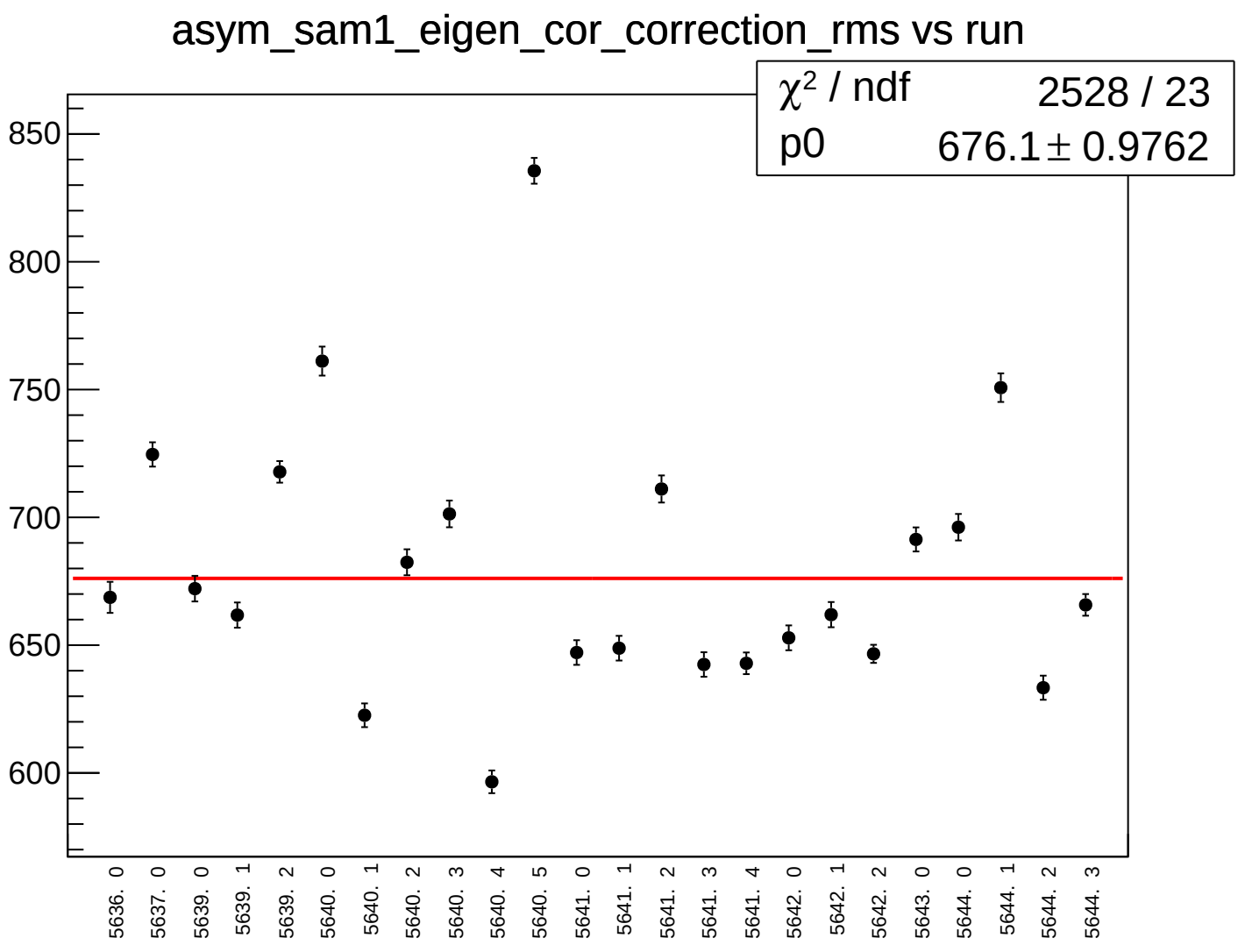

eigen_cor_asym_sam1_mean vs run
χ² / ndf 31.96 / 23
p0 131.3 ± 228.9
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 80.91
Std Dev 0
3
2
1
0
−1
−2

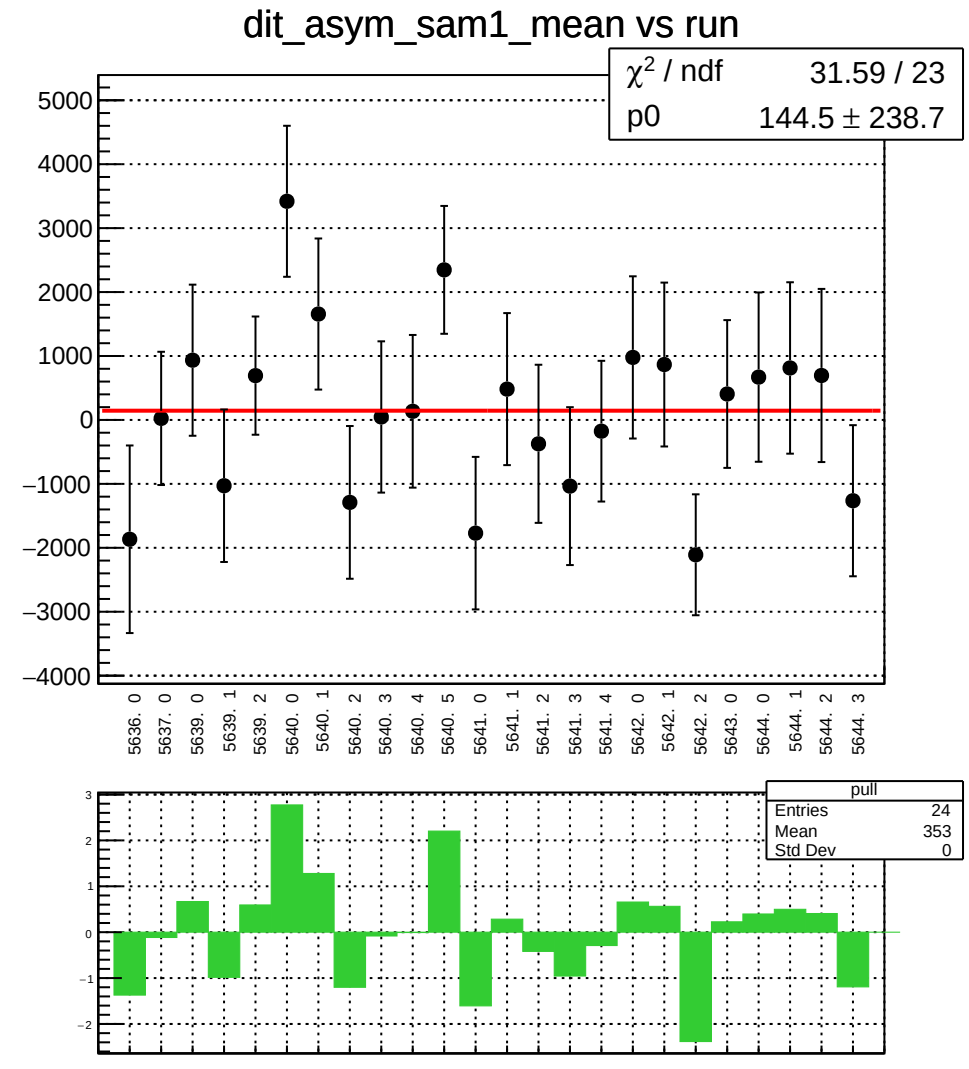

pull1D
Entries 24
Mean −0.009195
Std Dev 1.154
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

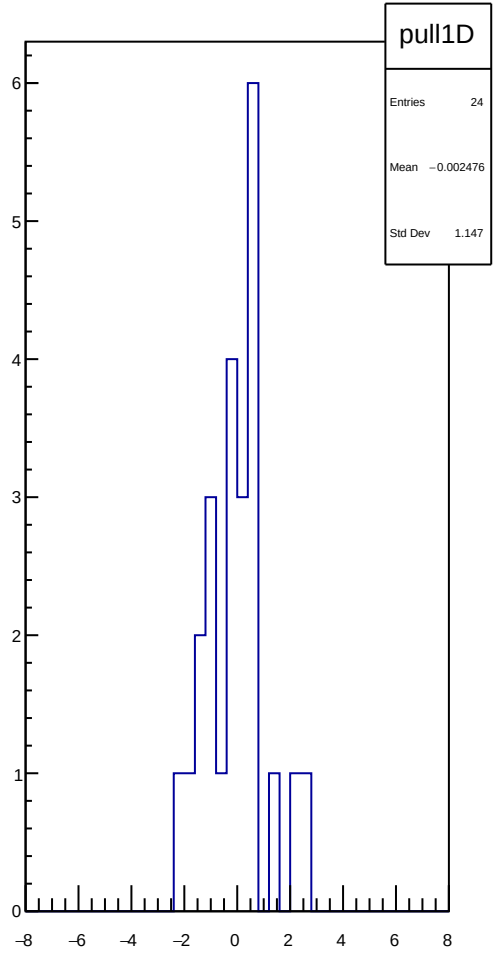

eigen_cor_asym_sam1_rms vs run
χ² / ndf 1037 / 23
p0 112.3 ± 0.1618
125
120
115
110
105
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

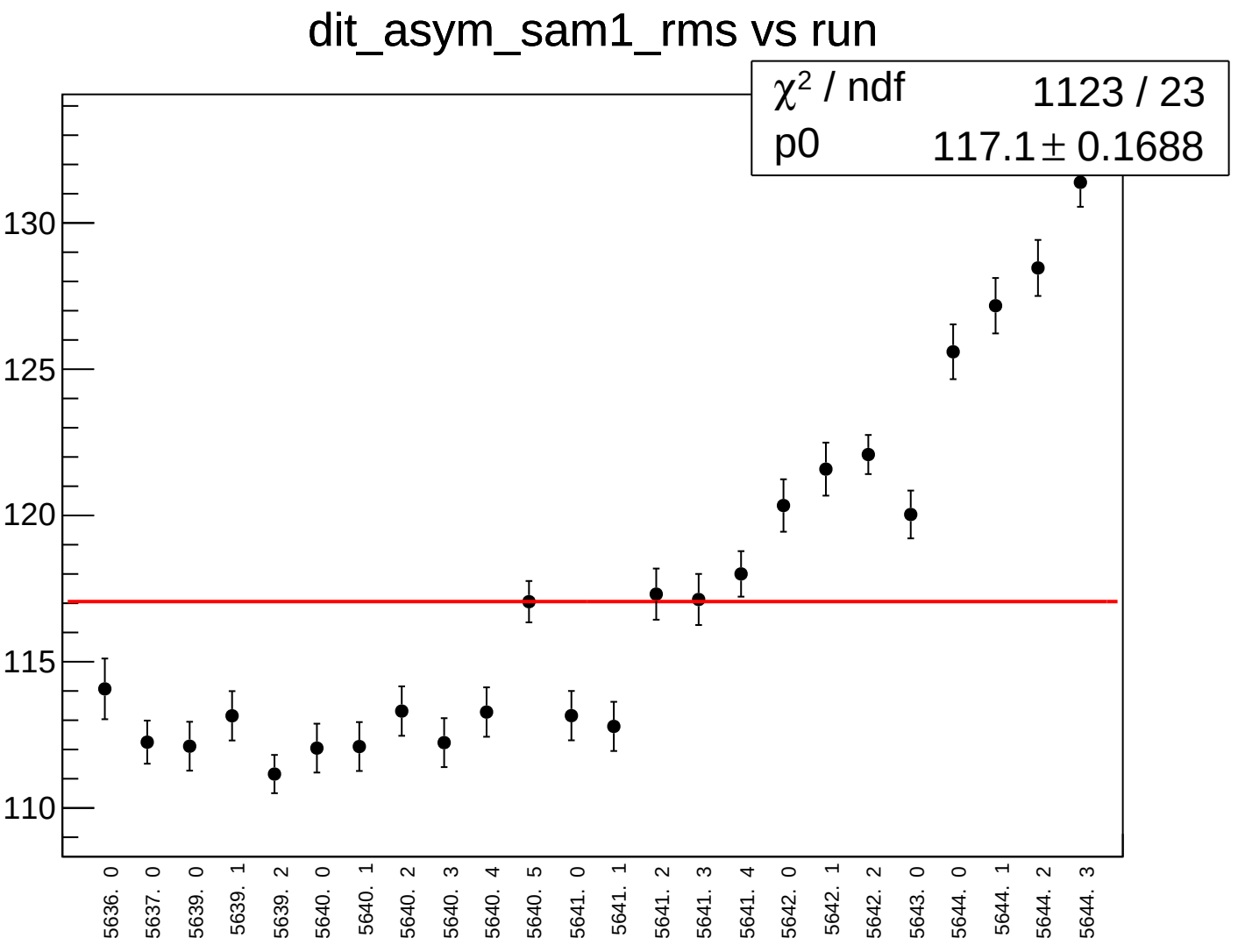

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 24.95 / 23
p0 833.1 ± 1381
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −20.76
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

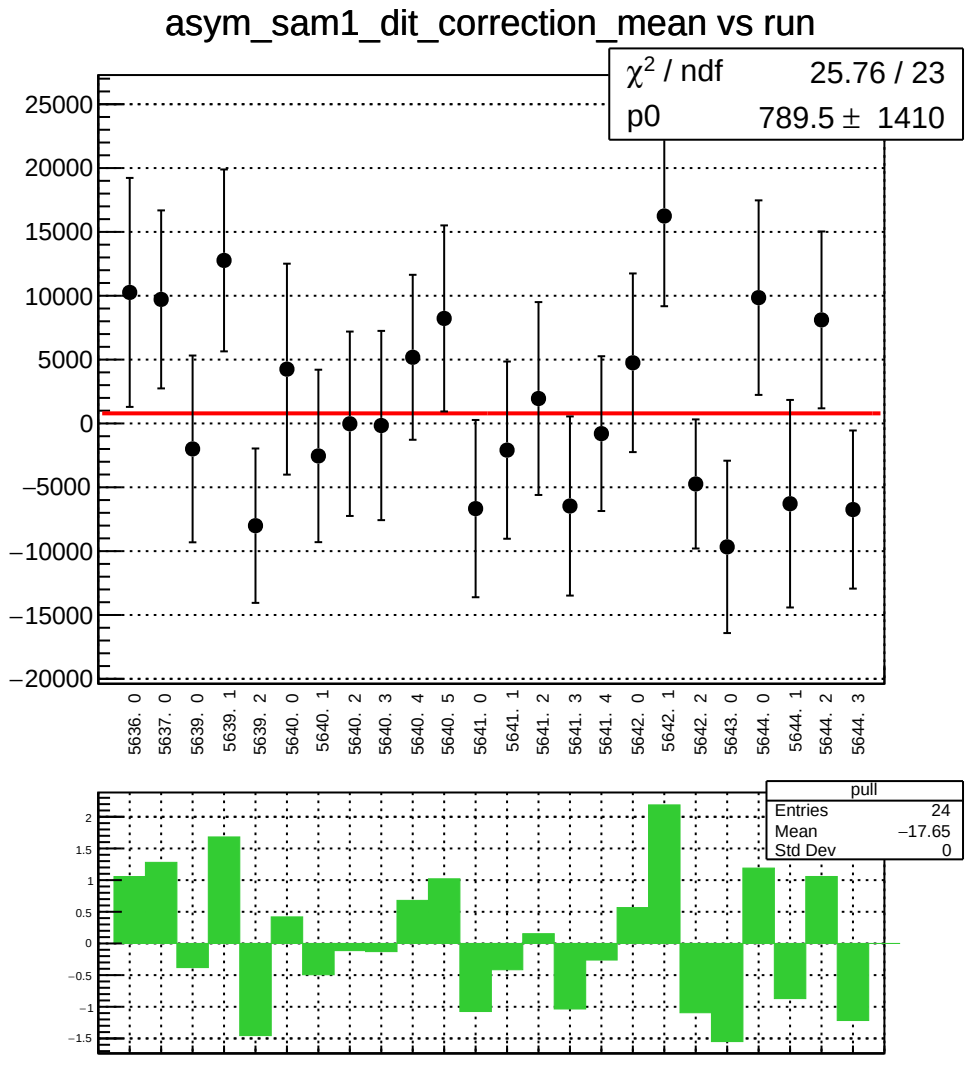

pull1D
Entries 24
Mean 0.04603
Std Dev 1.019
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

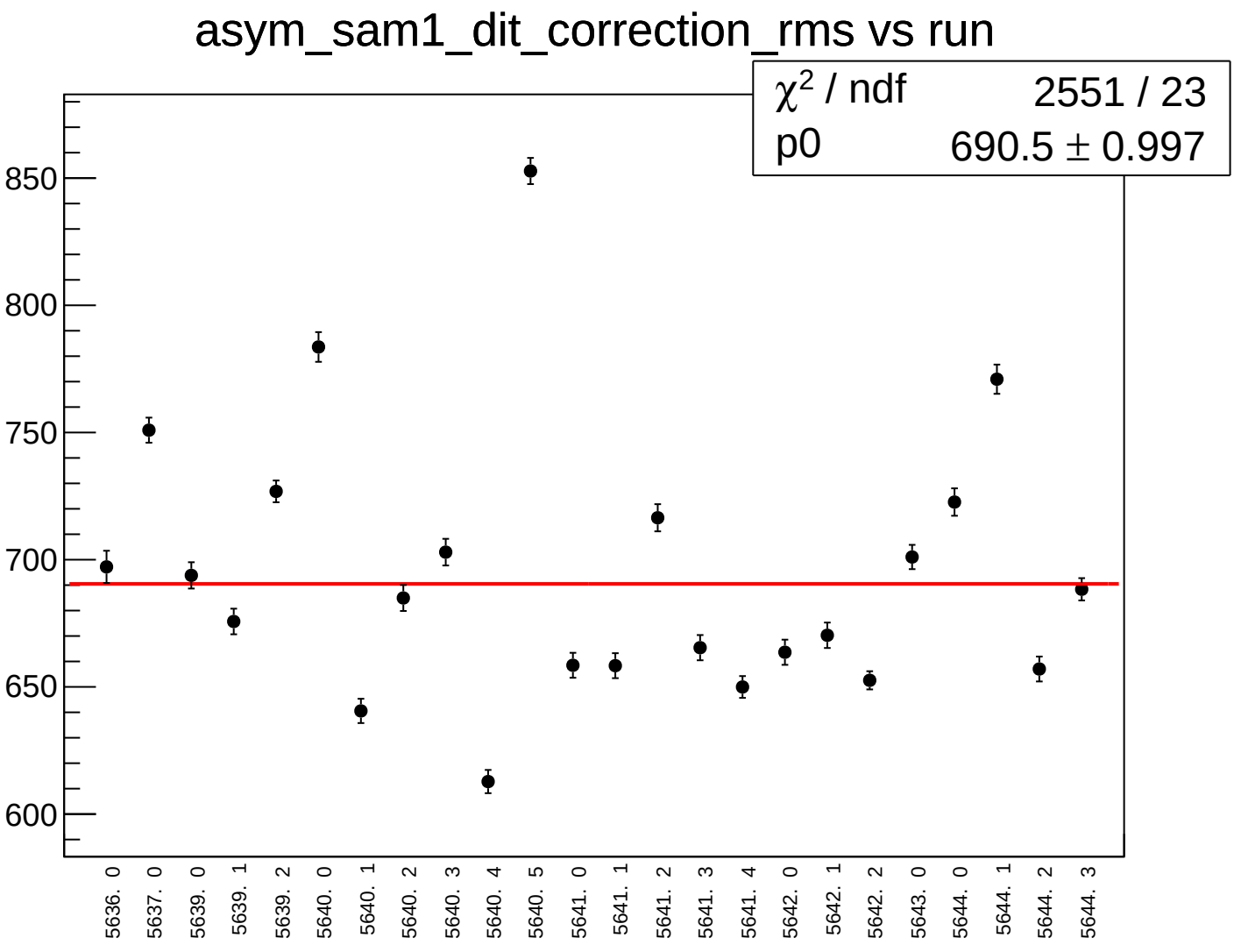

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 2528 / 23
p0 676.1 ± 0.9762
850
800
750
700
650
600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

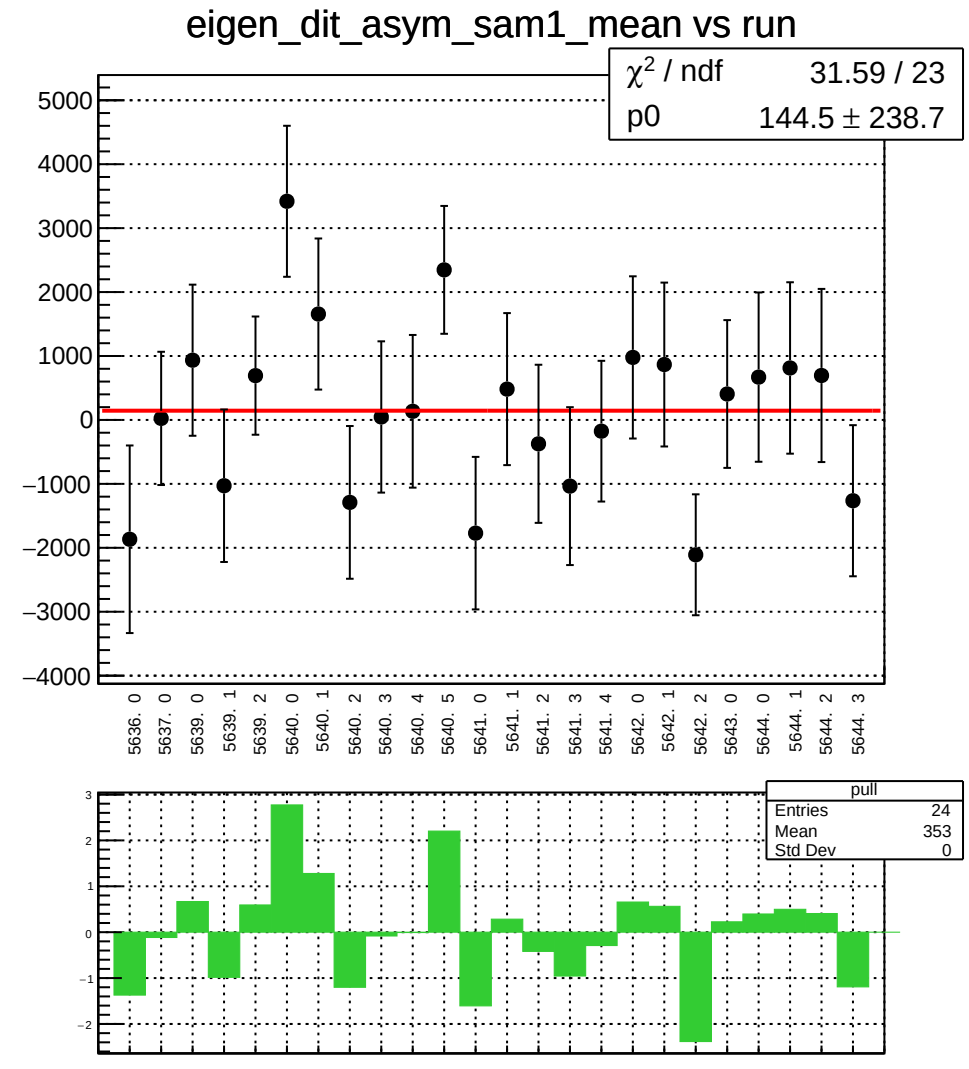

dit_asym_sam1_mean vs run
χ^2 / ndf 31.59 / 23
p0 144.5 ± 238.7
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 353
Std Dev 0
3
2
1
0
−1
−2

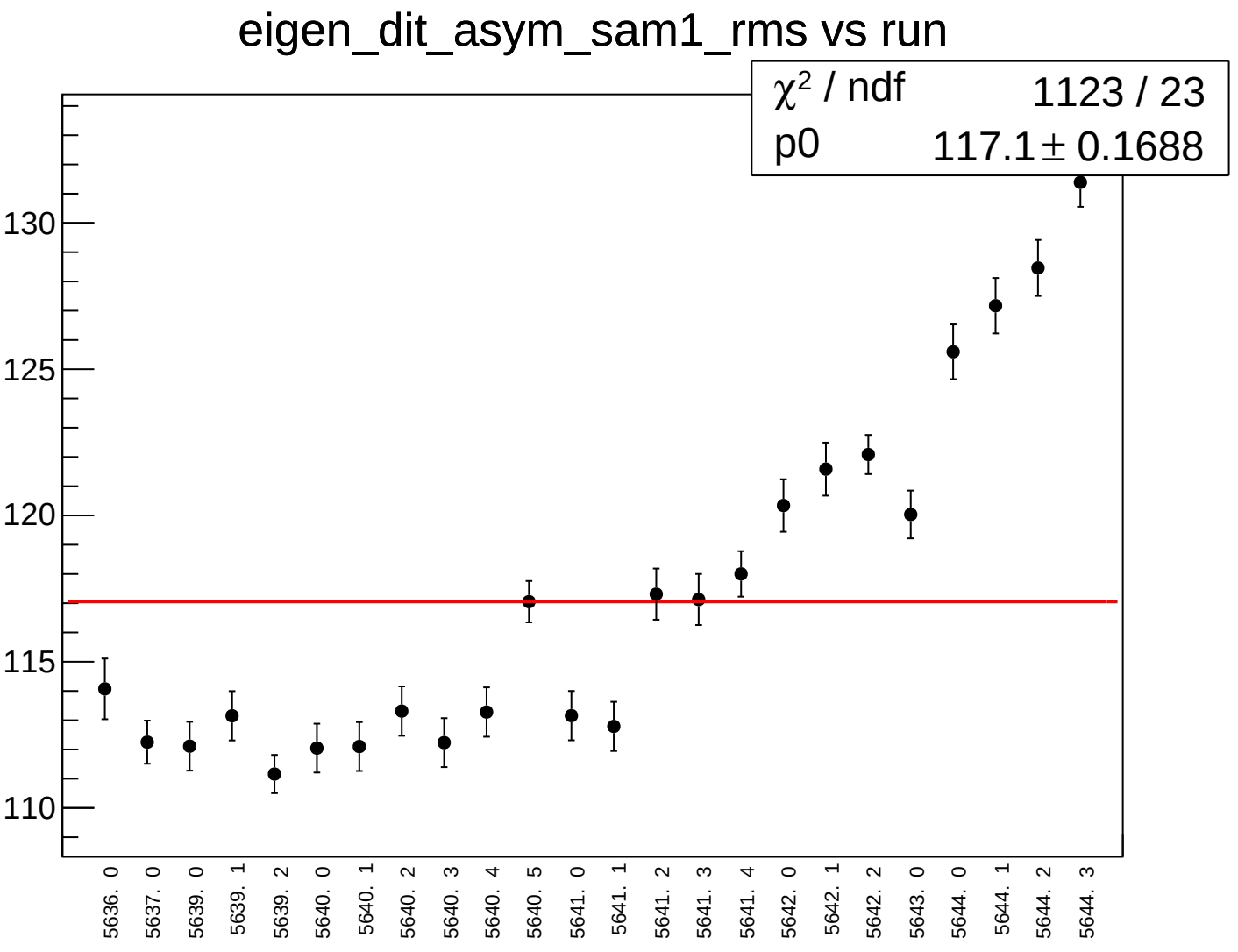

pull1D
Entries 24
Mean −0.002476
Std Dev 1.147
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

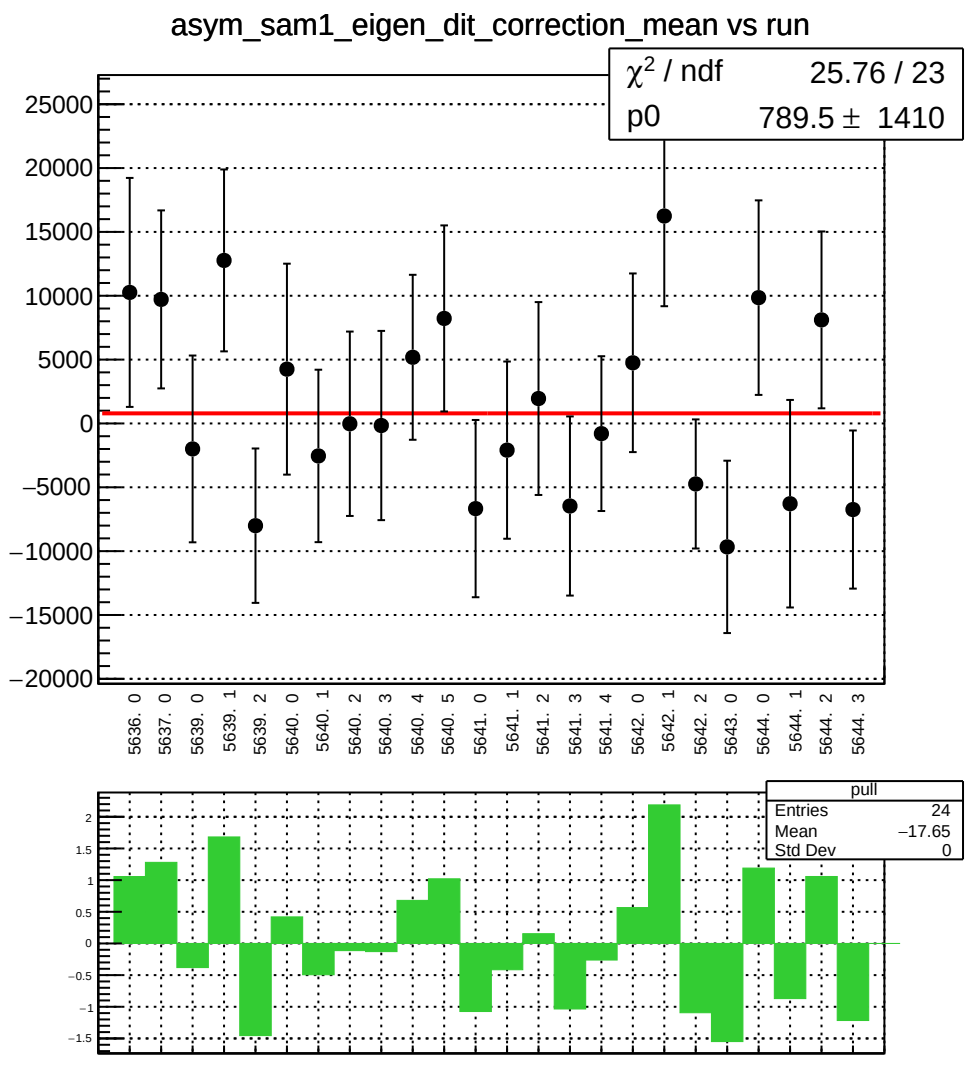

dit_asym_sam1_rms vs run
χ² / ndf 1123 / 23
p0 117.1 ± 0.1688
130
125
120
115
110
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

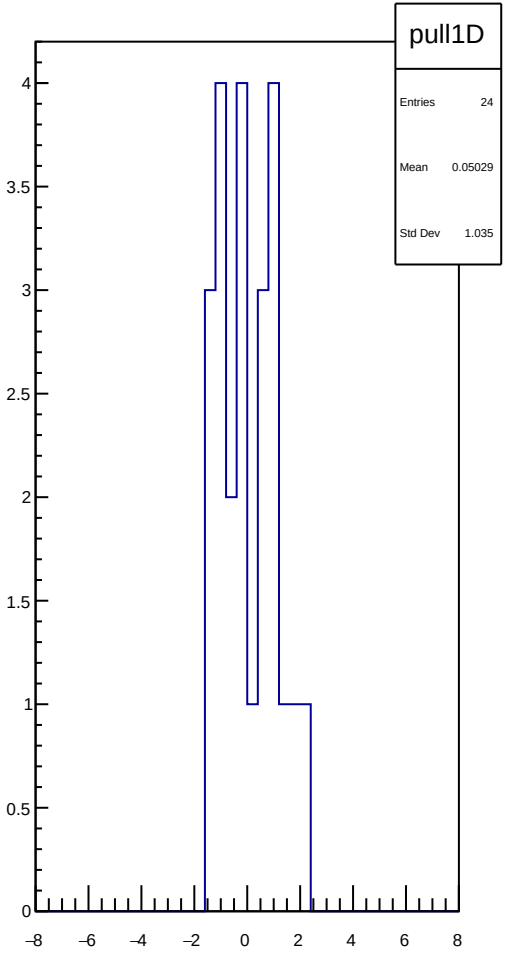

asym_sam1_dit_correction_mean vs run
χ² / ndf 25.76 / 23
p0 789.5 ± 1410
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −17.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.05029
Std Dev 1.035
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

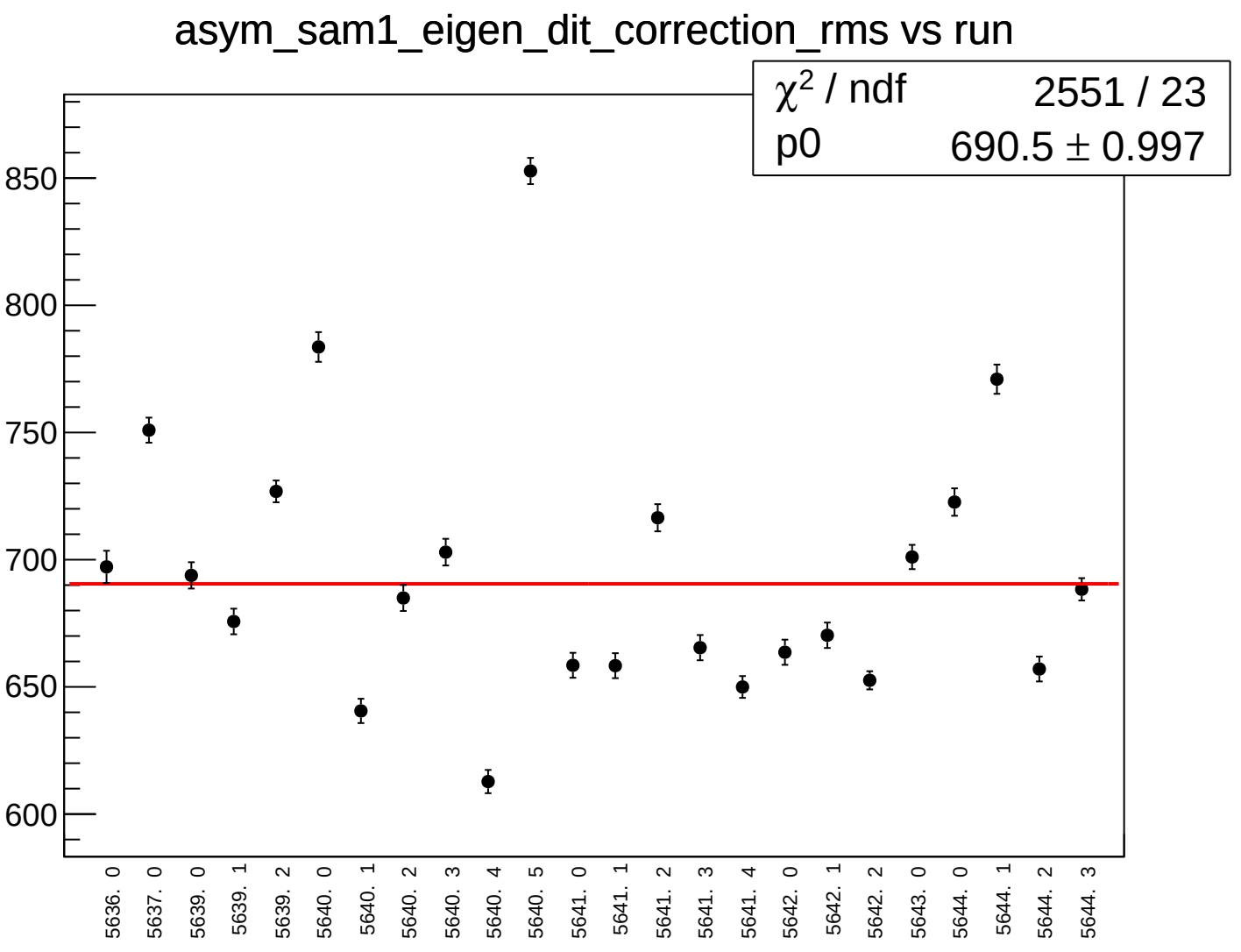

asym_sam1_dit_correction_rms vs run
χ² / ndf 2551 / 23
p0 690.5 ± 0.997
850
800
750
700
650
600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

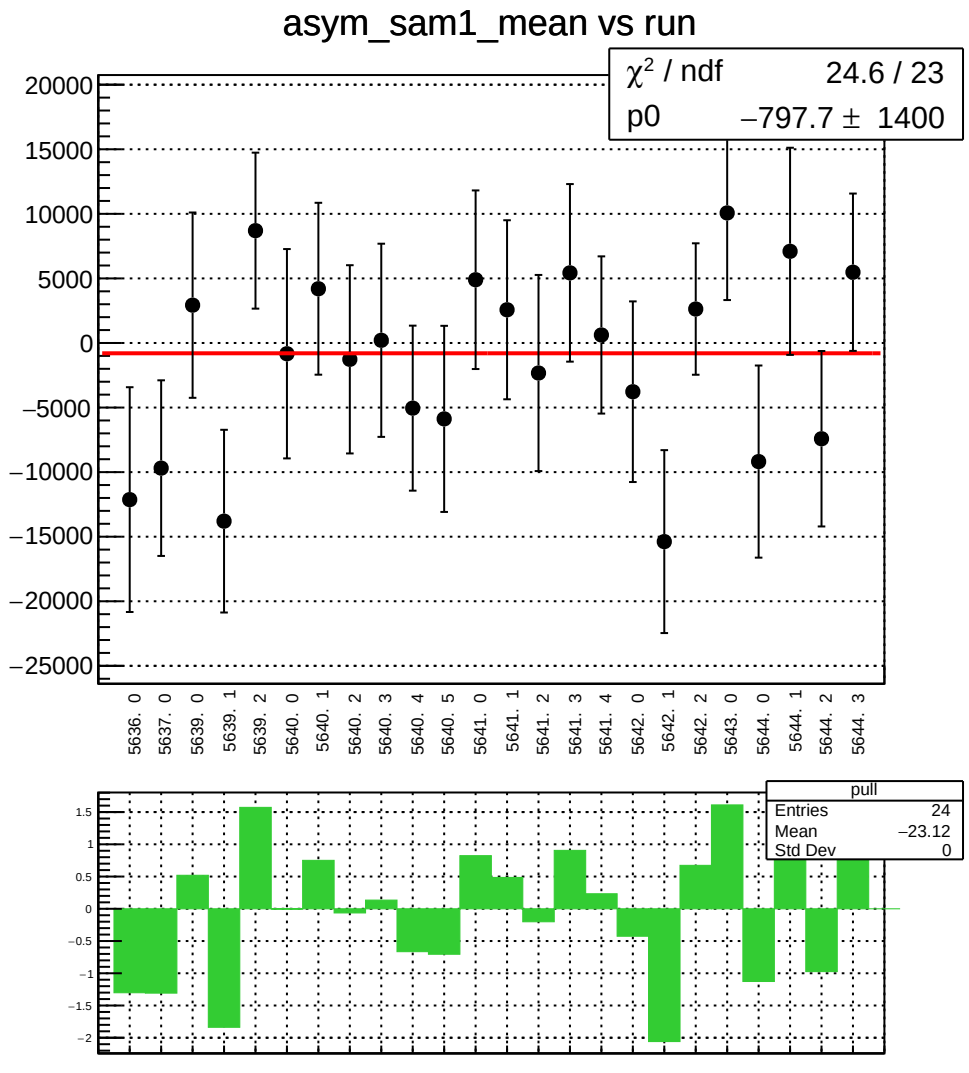

eigen_dit_asym_sam1_mean vs run
χ^2 / ndf 31.59 / 23
p0 144.5 ± 238.7
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 353
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 24
Mean −0.002476
Std Dev 1.147
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

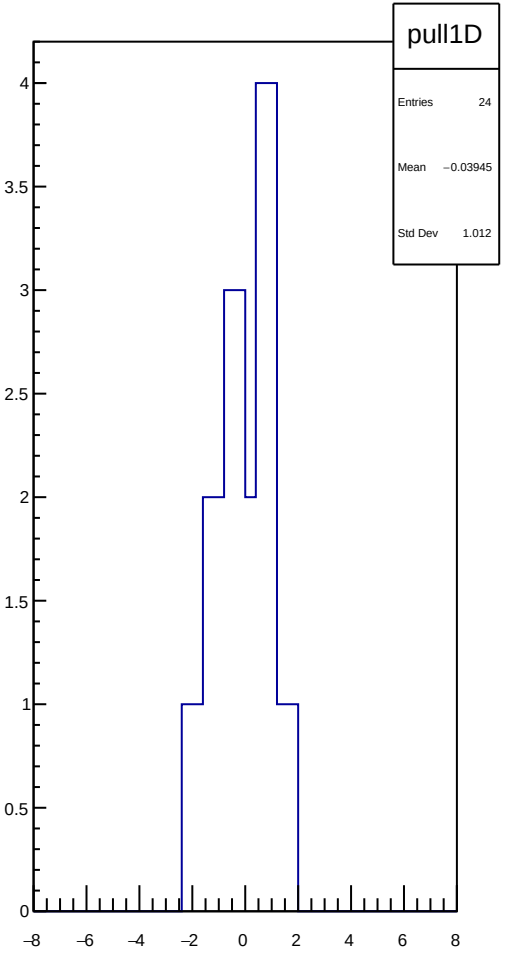

eigen_dit_asym_sam1_rms vs run
χ² / ndf 1123 / 23
p0 117.1 ± 0.1688
130
125
120
115
110
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

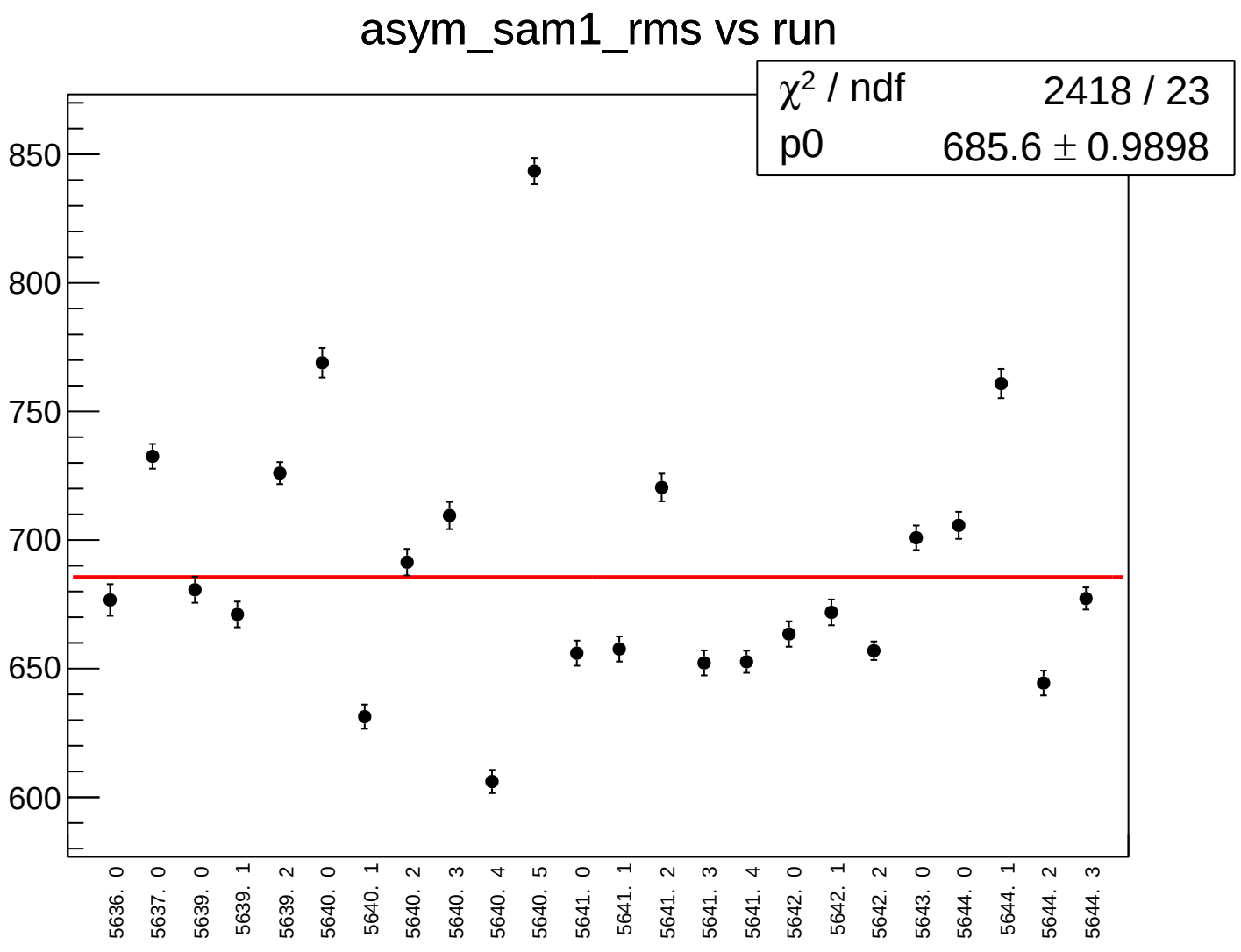

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 25.76 / 23
p0 789.5 ± 1410
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −17.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

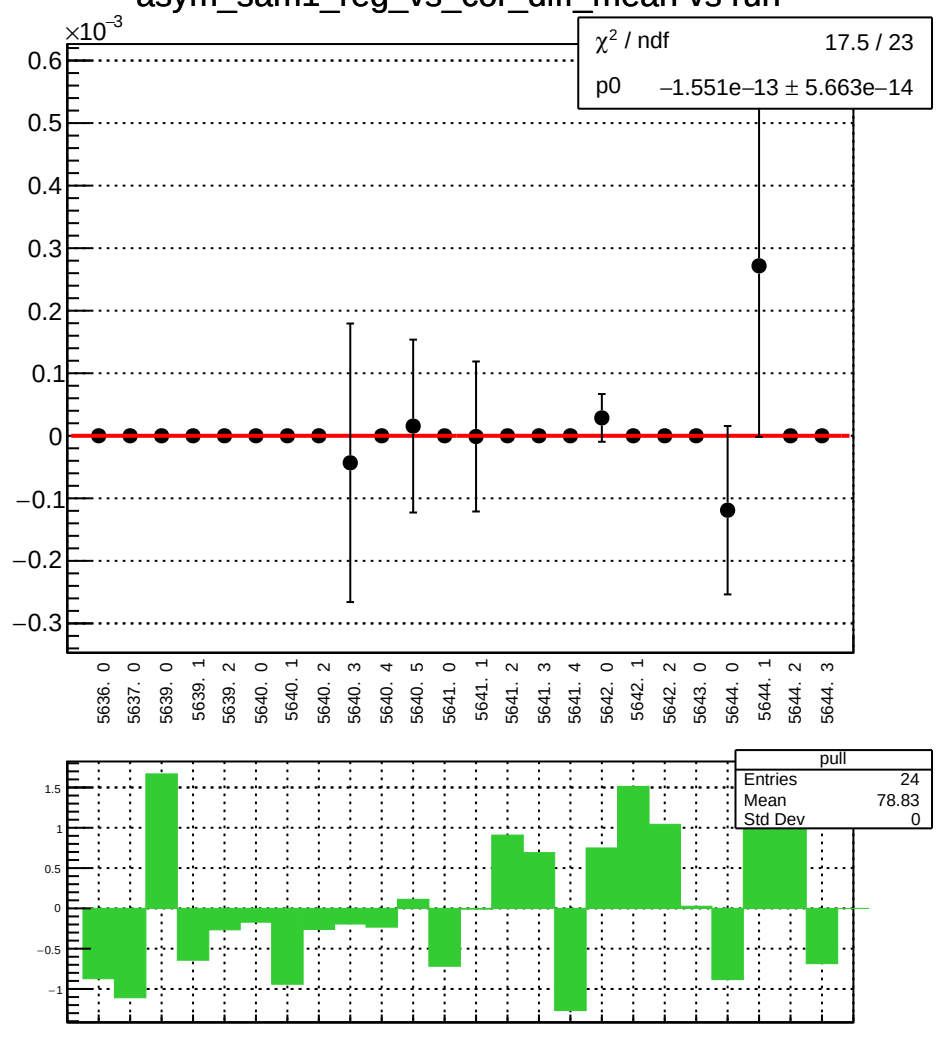

pull1D
Entries 24
Mean 0.05029
Std Dev 1.035
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

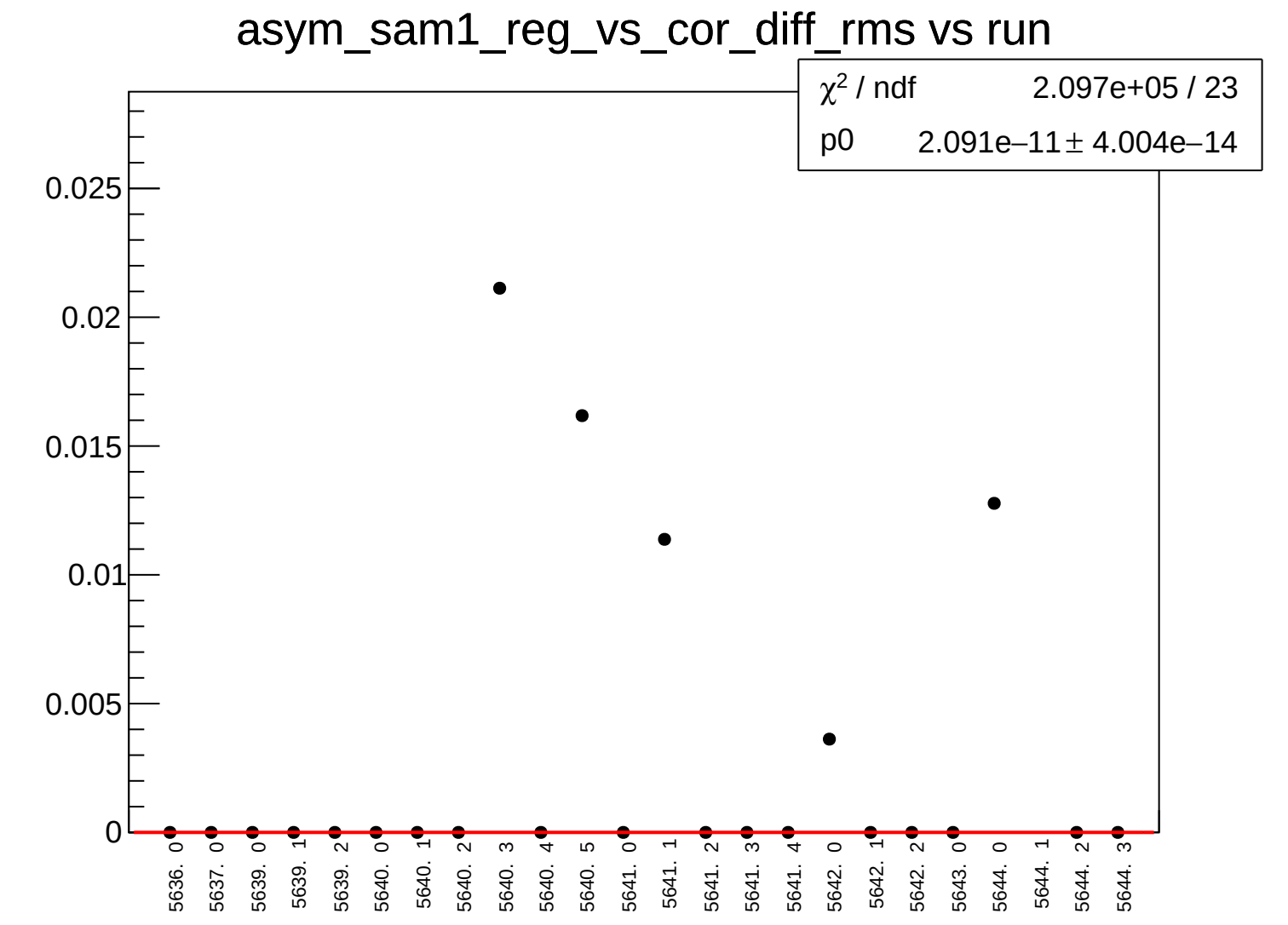

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 2551 / 23
p0 690.5 ± 0.997
850
800
750
700
650
600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

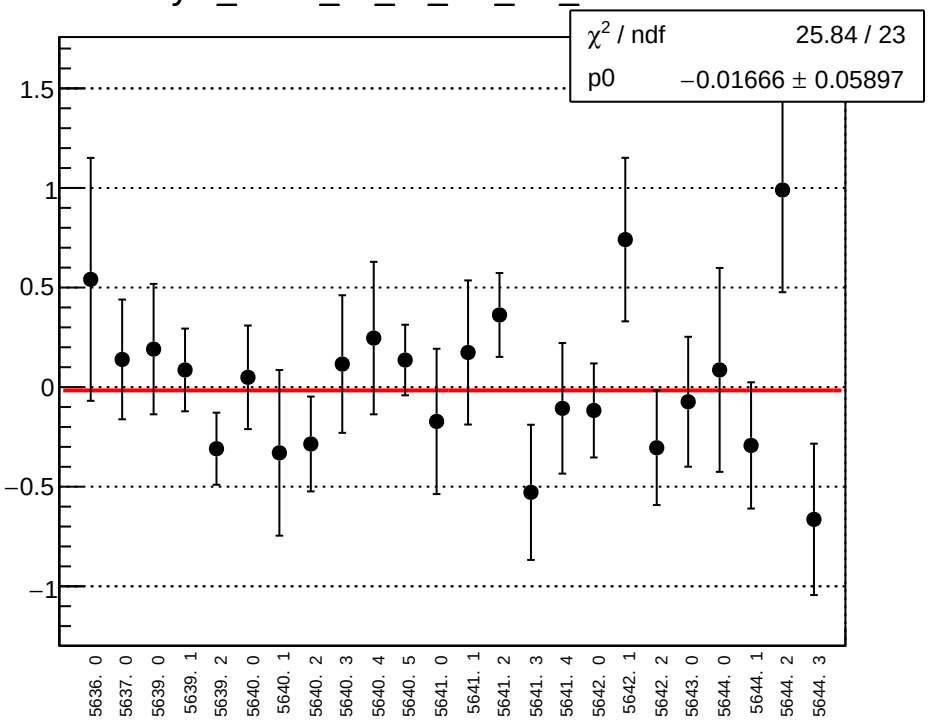

asym_sam1_mean vs run
χ² / ndf 24.6 / 23
p0 −797.7 ± 1400
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −23.12
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

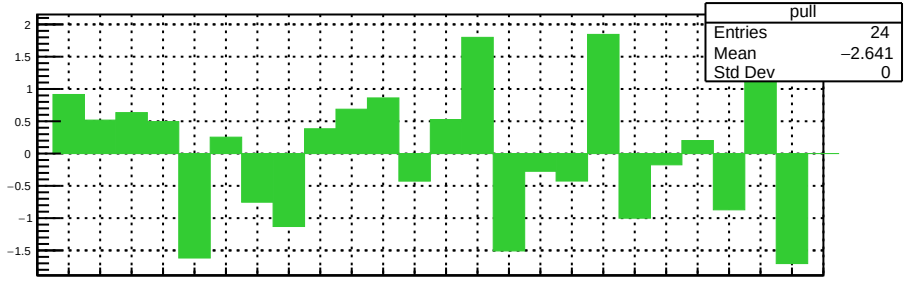

pull1D
Entries 24
Mean −0.03945
Std Dev 1.012
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

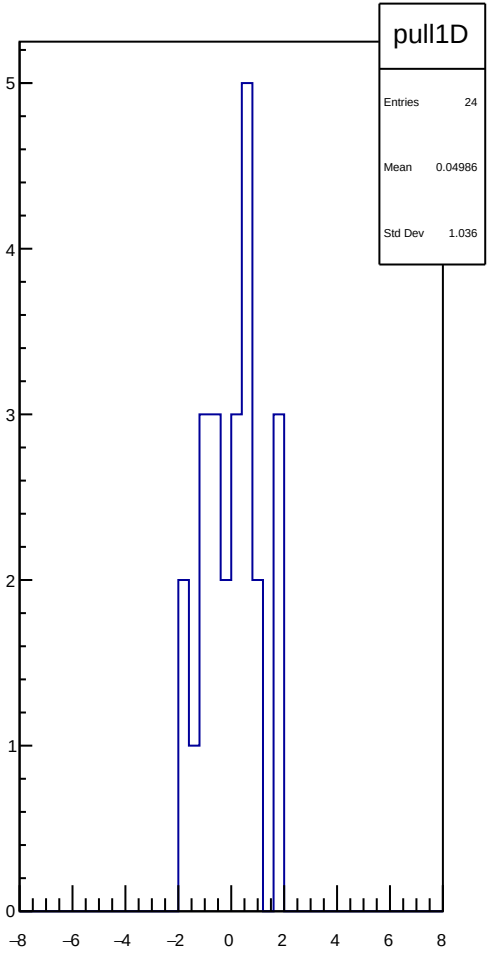

asym_sam1_rms vs run
χ² / ndf 2418 / 23
p0 685.6 ± 0.9898
850
800
750
700
650
600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

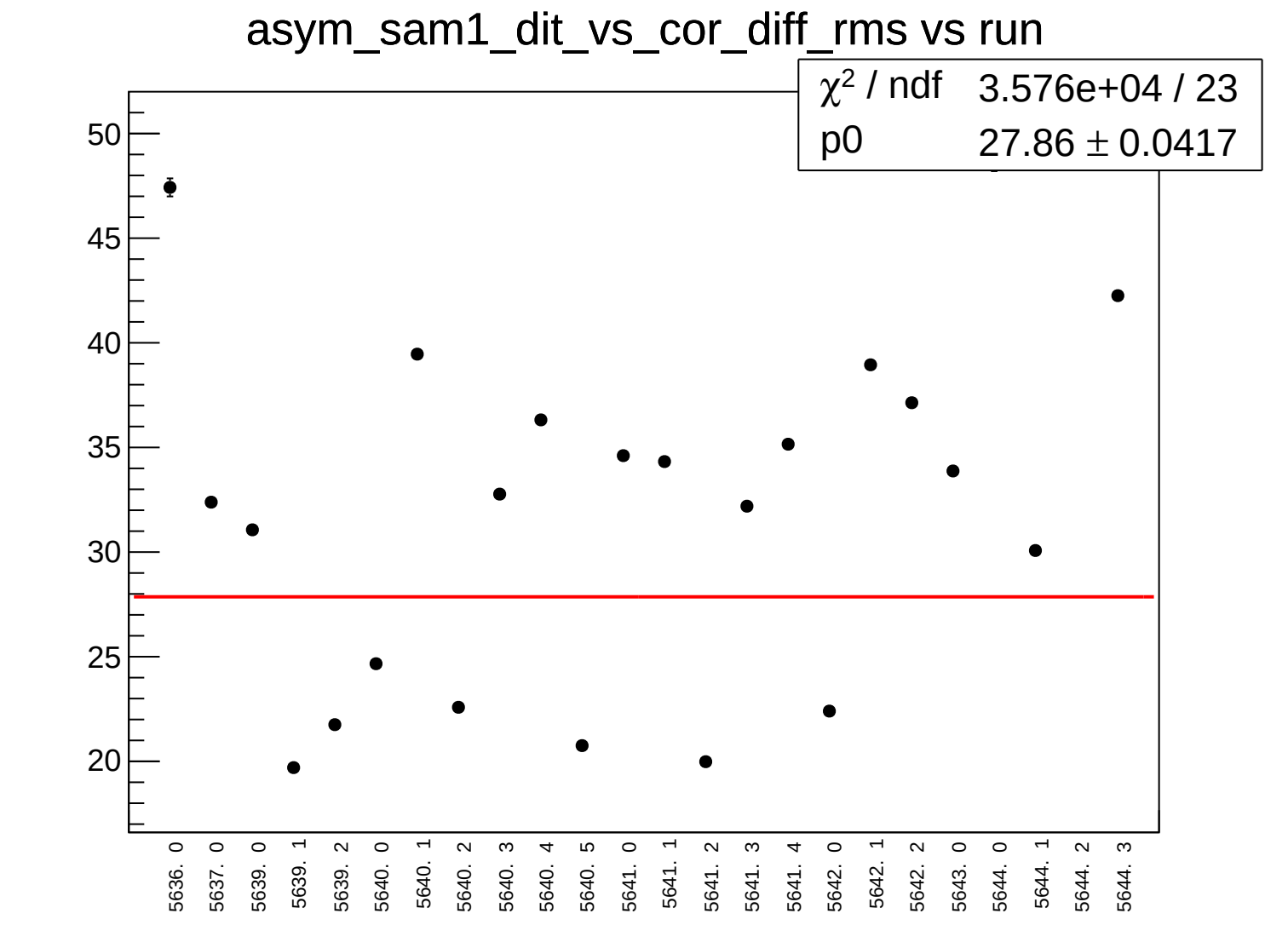

asym_sam1_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 17.5 / 23
p0 −1.551e−13 ± 5.663e−14
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 78.83
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.02907
Std Dev 0.8534
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

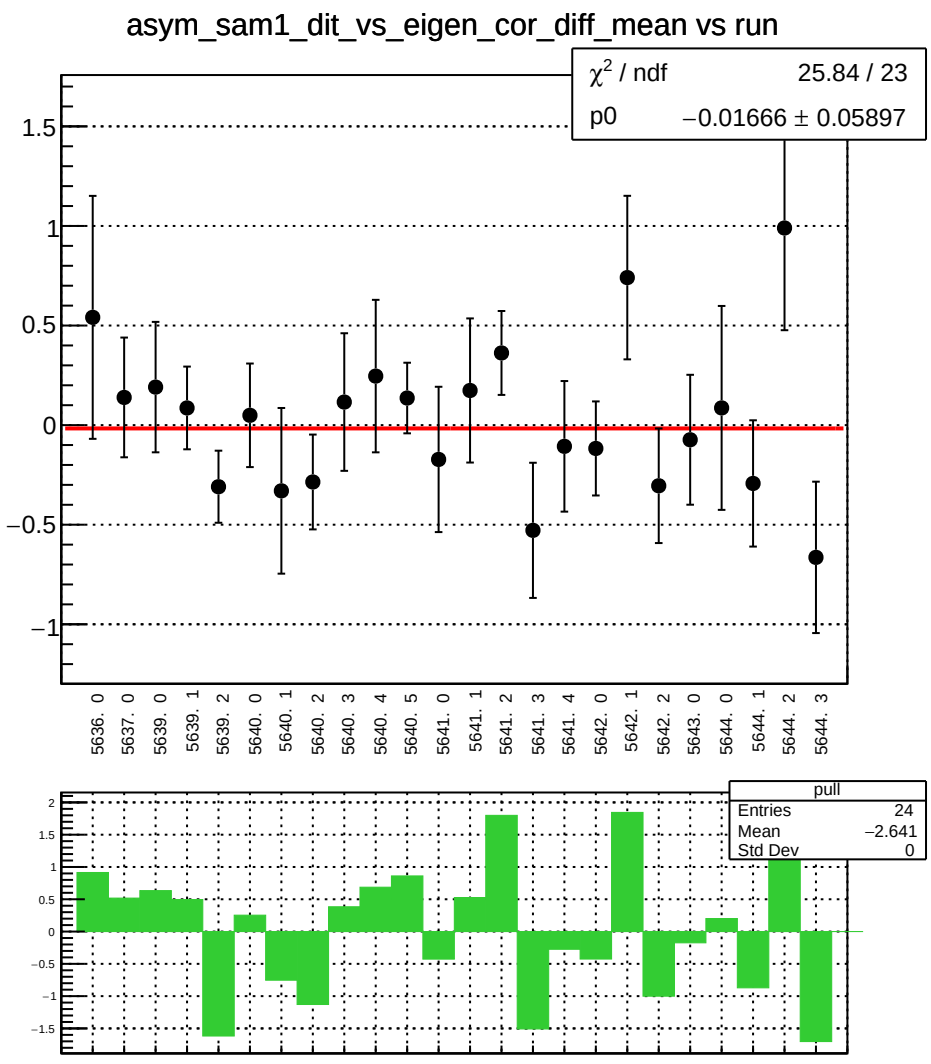

asym_sam1_reg_vs_cor_diff_rms vs run
χ2 / ndf 2.097e+05 / 23
p0 2.091e−11 ± 4.004e−14
0.025
0.02
0.015
0.01
0.005
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

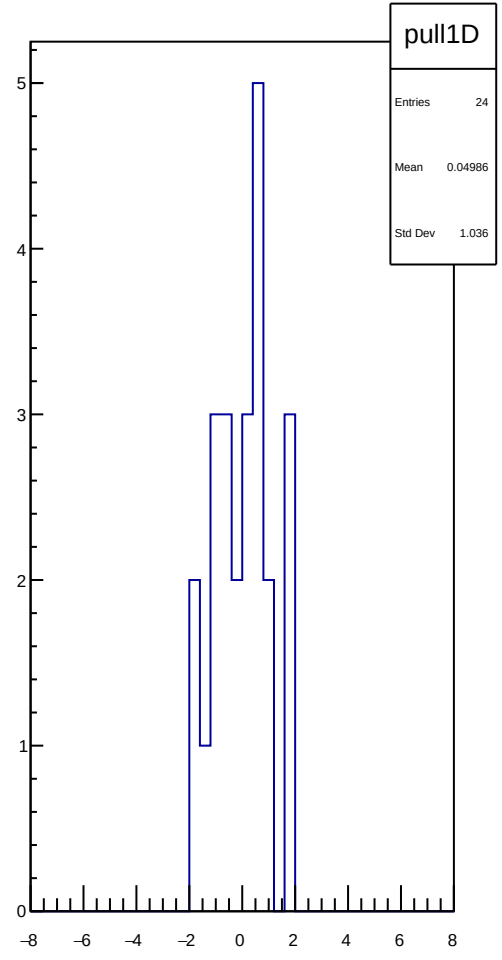

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 25.84 / 23
p0 −0.01666 ± 0.05897
1.5
1
0.5
0
−0.5
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

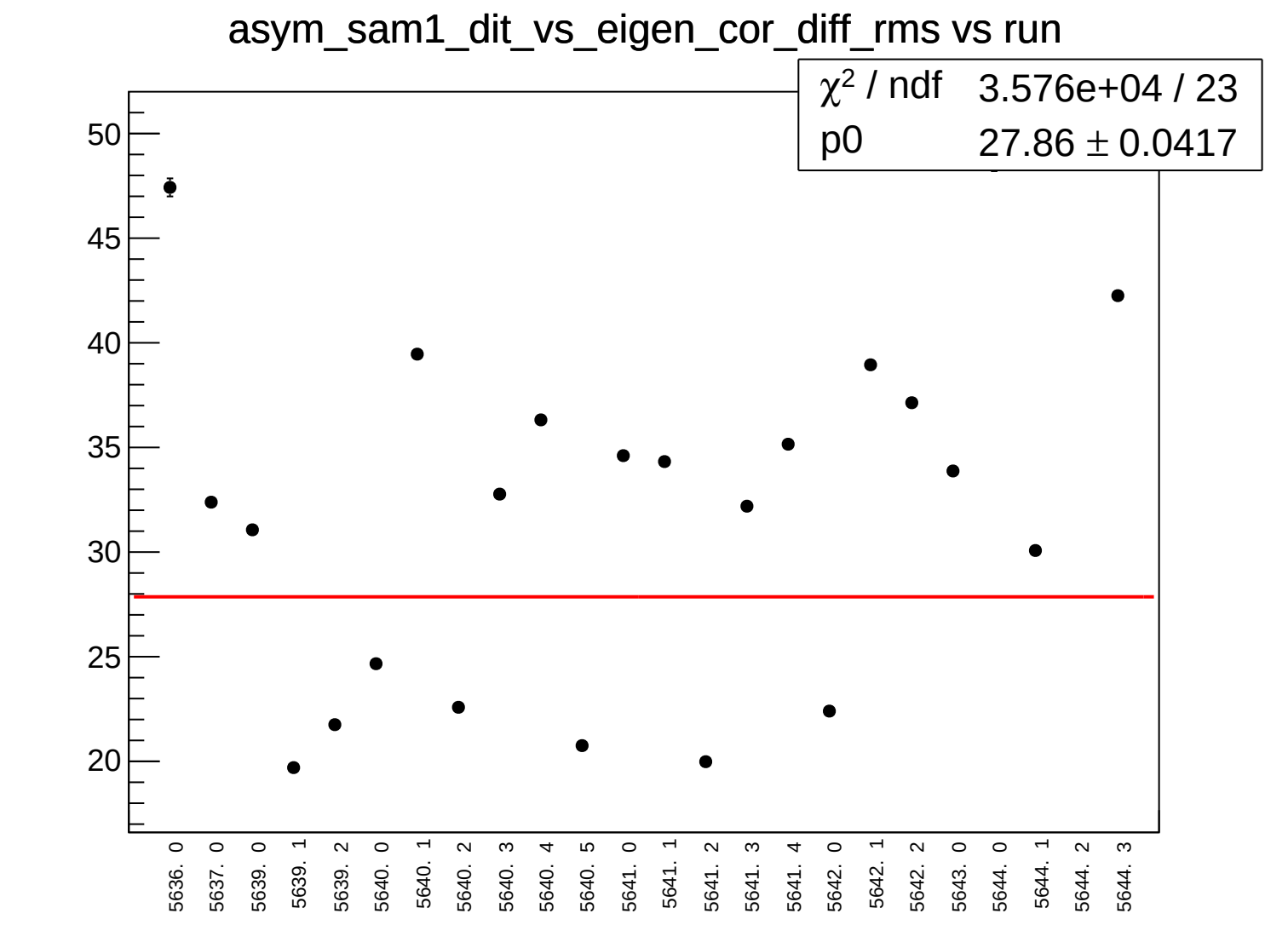

pull
Entries 24
Mean −2.641
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

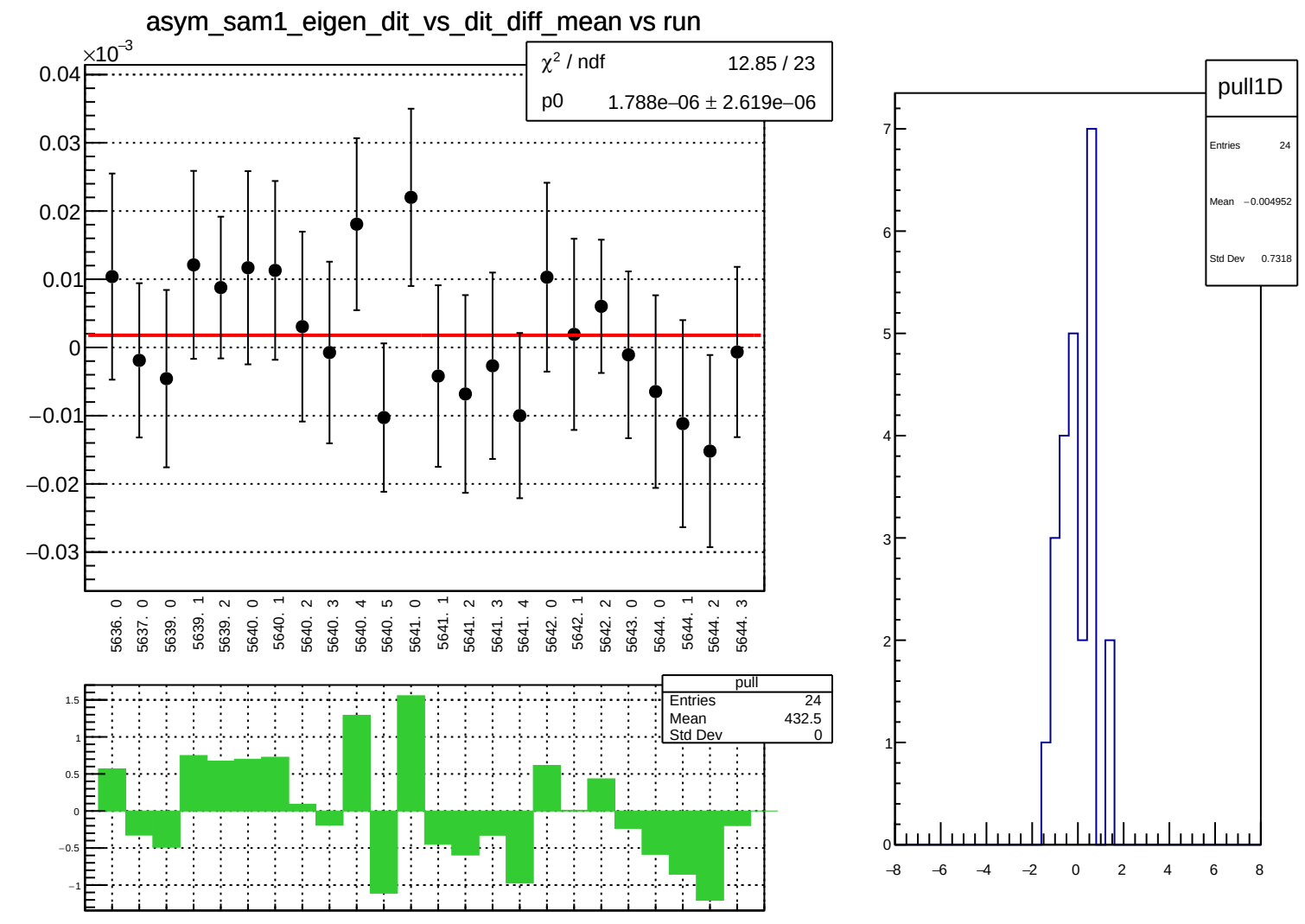

pull1D
Entries 24
Mean 0.04986
Std Dev 1.036
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

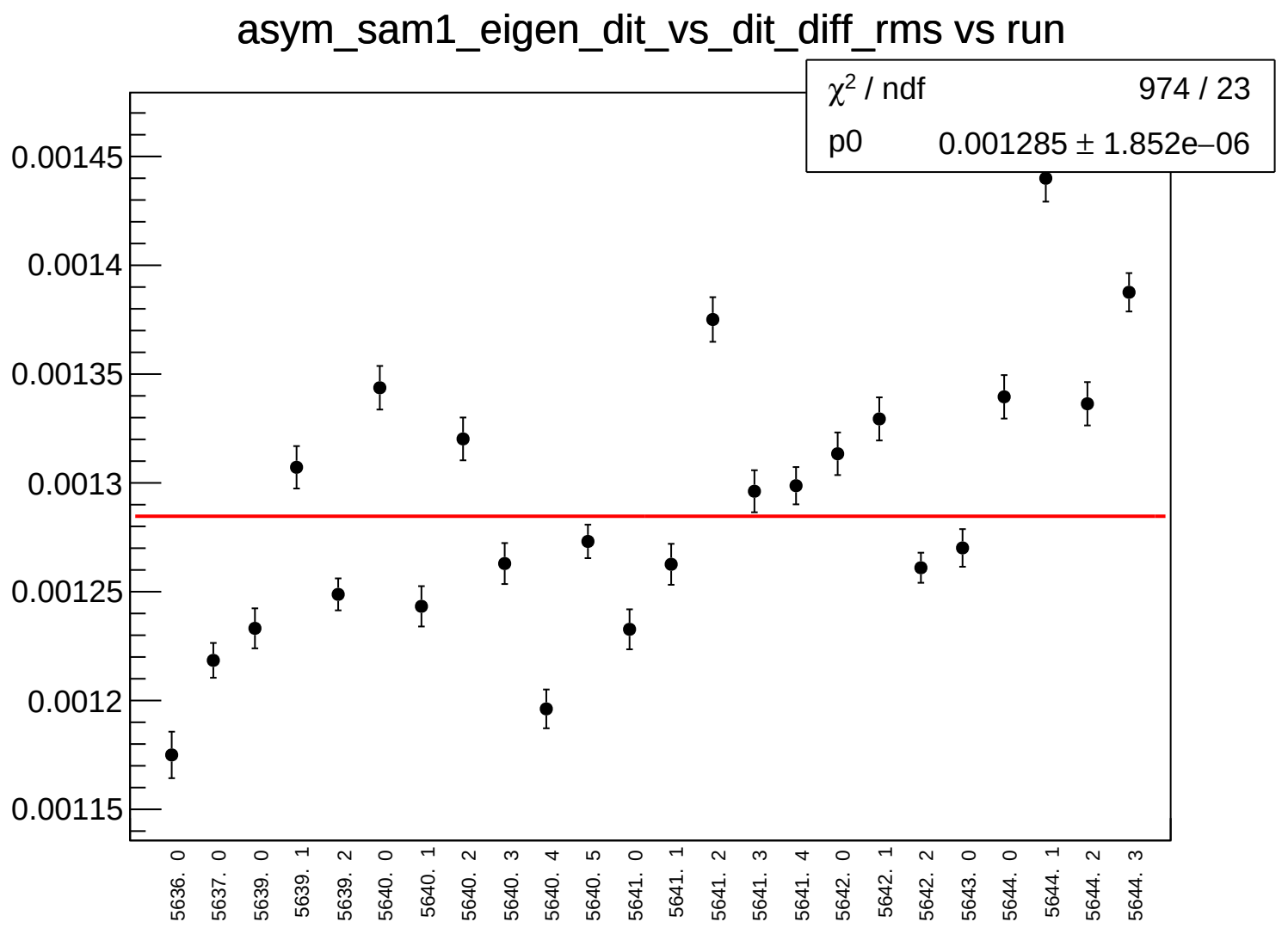

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 3.576e+04 / 23
p0 27.86 ± 0.0417
50
45
40
35
30
25
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

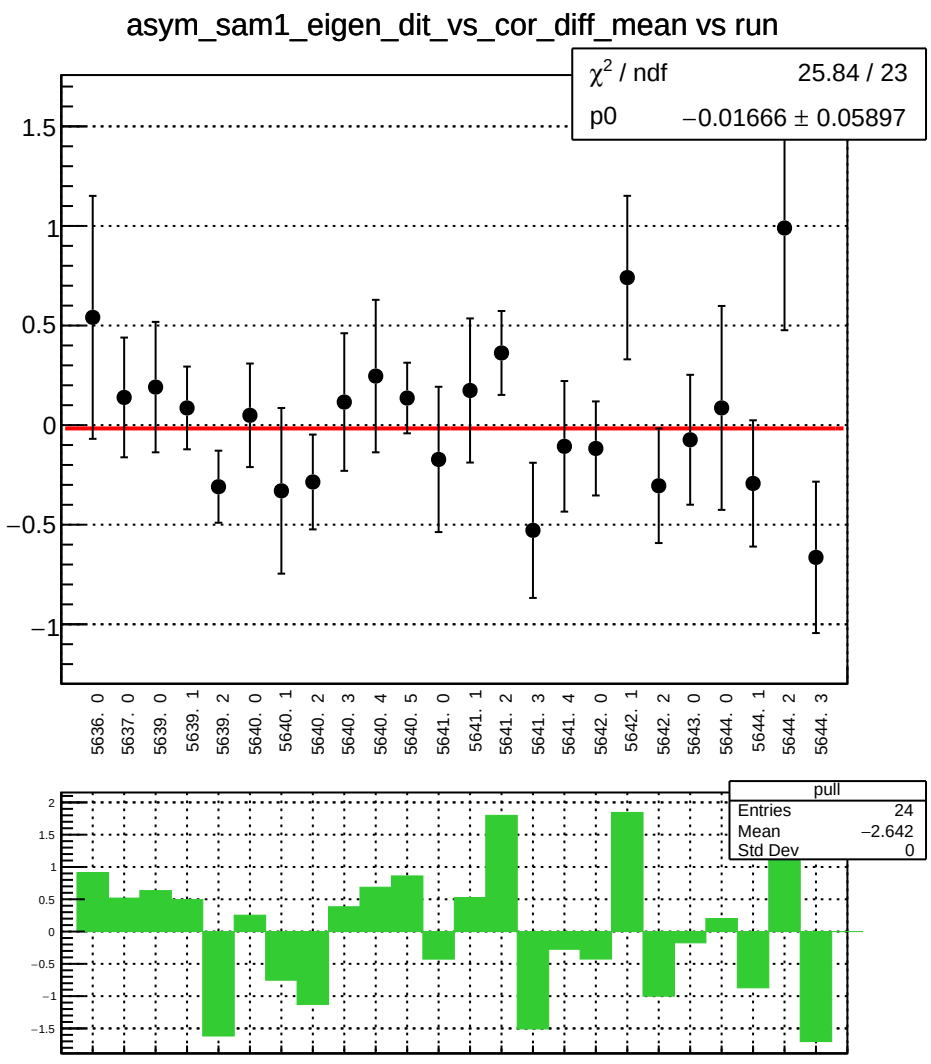

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.84 / 23
p0 −0.01666 ± 0.05897
1.5
1
0.5
0
−0.5
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −2.641
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

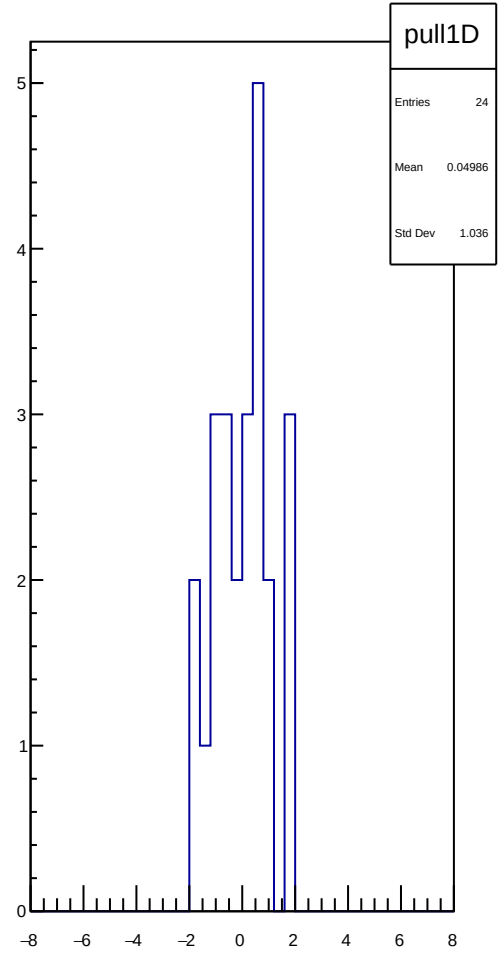

pull1D
Entries 24
Mean 0.04986
Std Dev 1.036
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

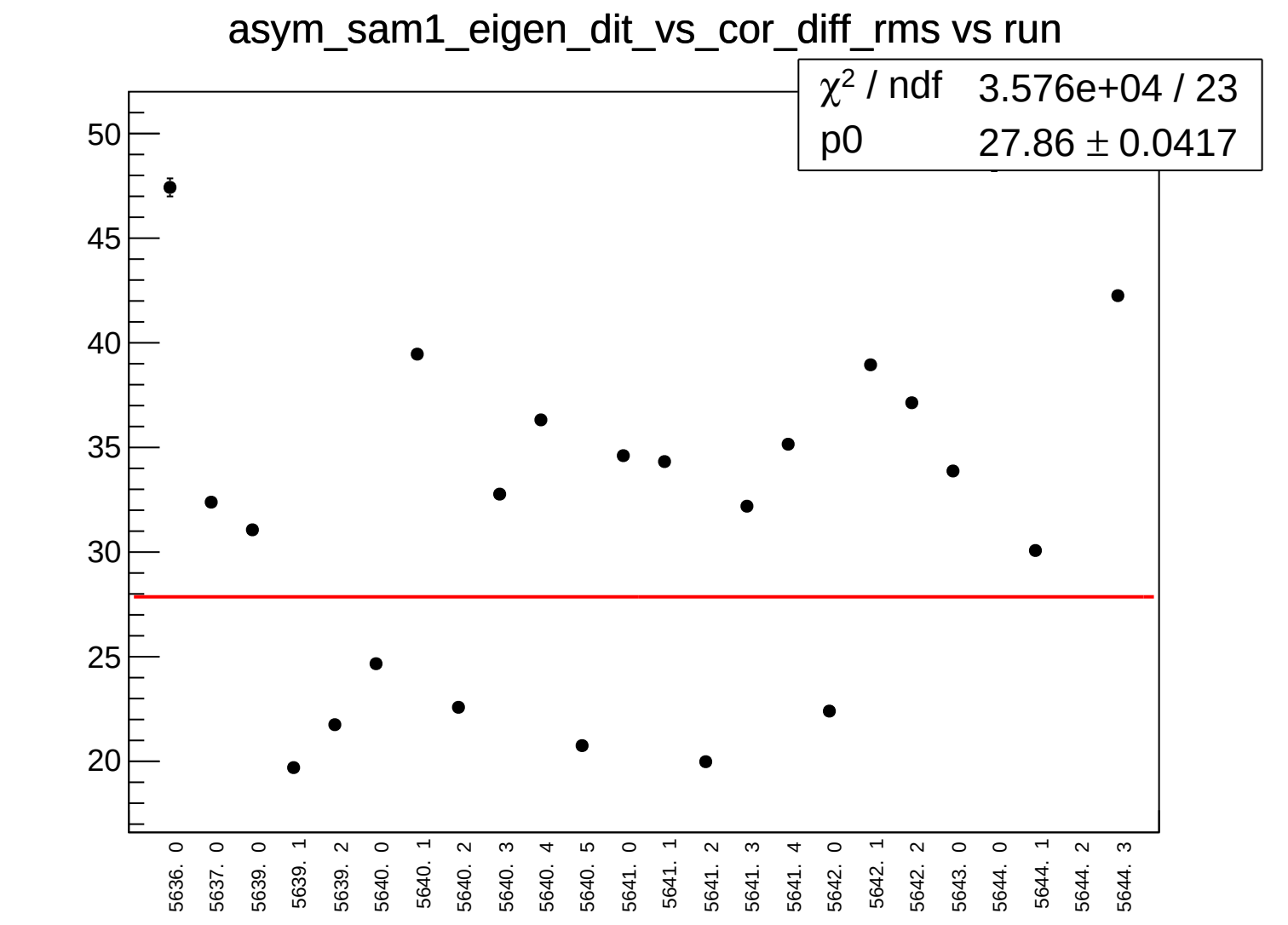

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.576e+04 / 23
p0 27.86 ± 0.0417
50
45
40
35
30
25
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

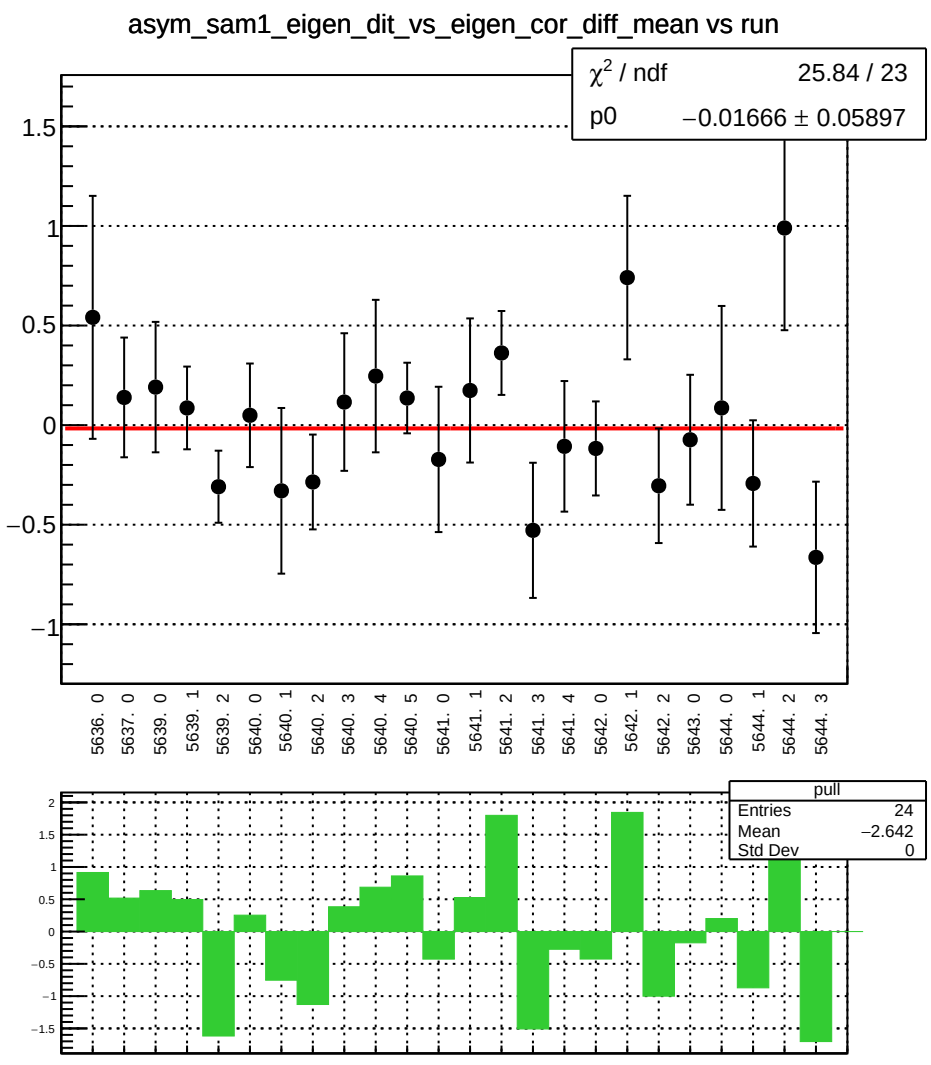

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 12.85 / 23
p0 1.788e−06 ± 2.619e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 432.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.004952
Std Dev 0.7318
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

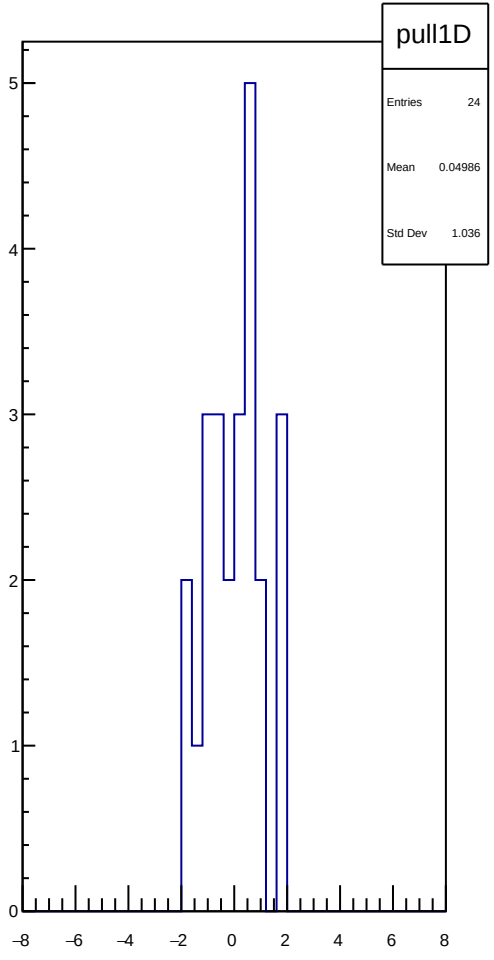

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 974 / 23
p0 0.001285 ± 1.852e−06
0.00145
0.0014
0.00135
0.0013
0.00125
0.0012
0.00115
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

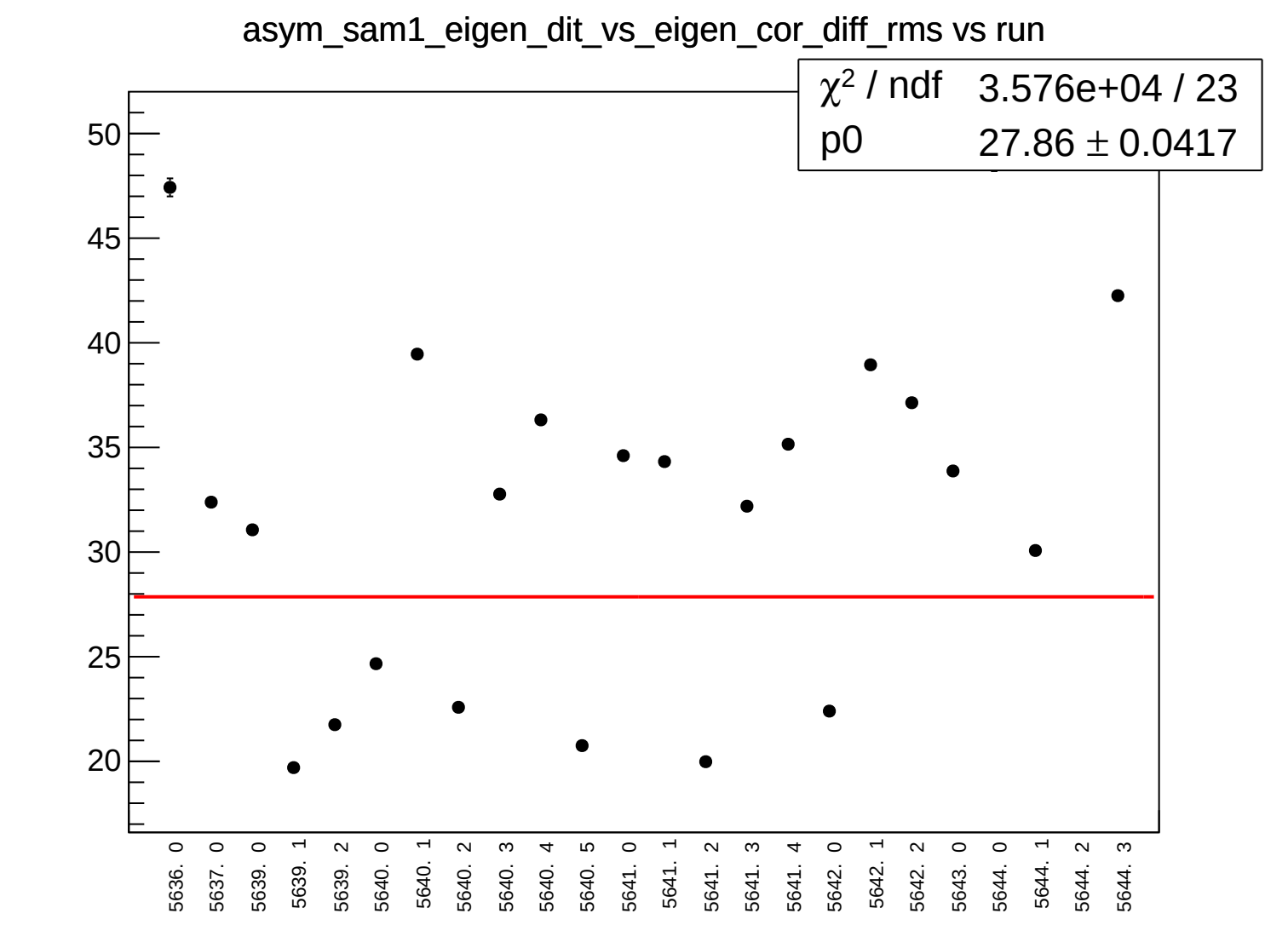

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 25.84 / 23
p0 −0.01666 ± 0.05897
1.5
1
0.5
0
−0.5
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −2.642
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

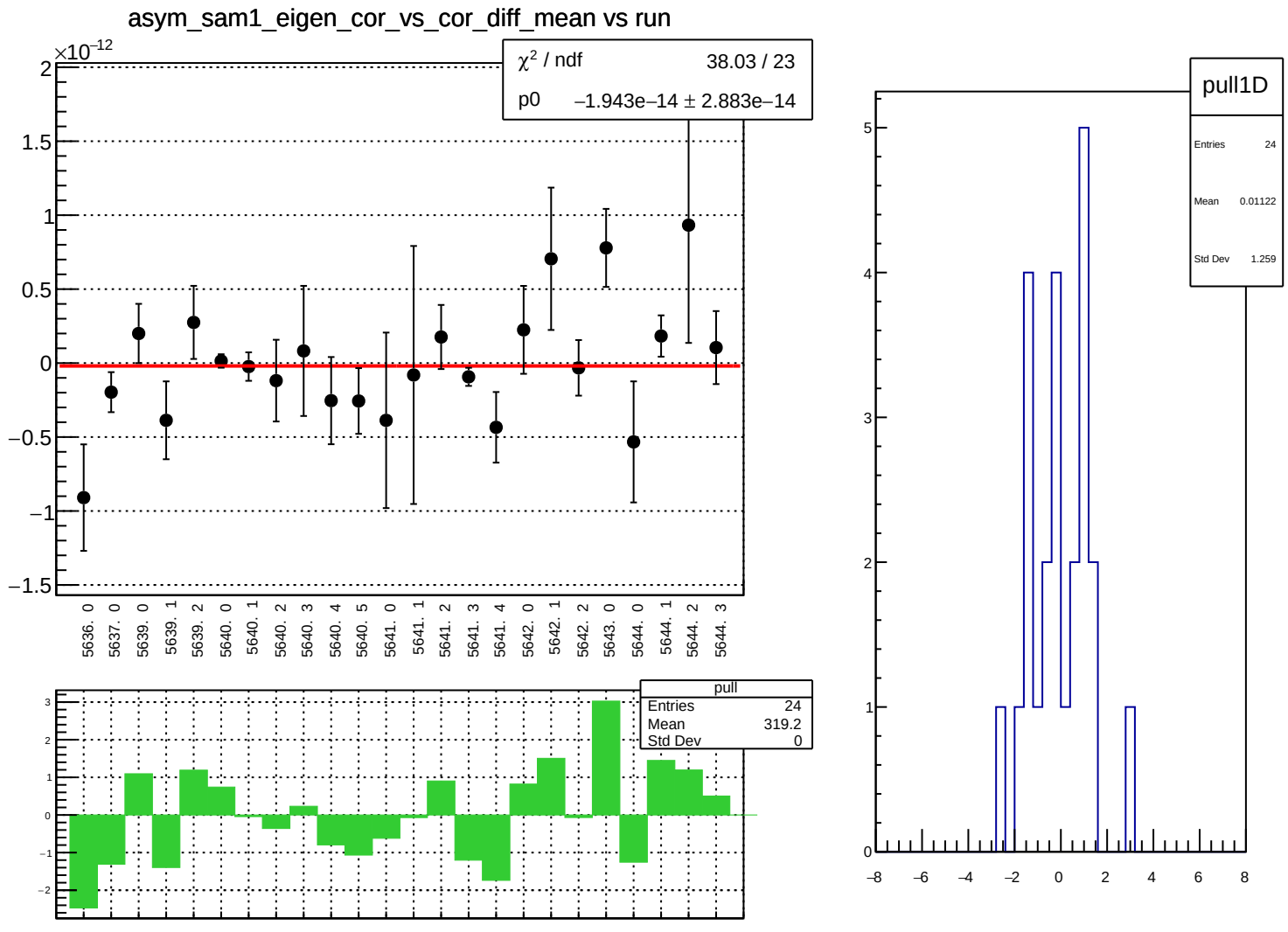

pull1D
Entries 24
Mean 0.04986
Std Dev 1.036
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

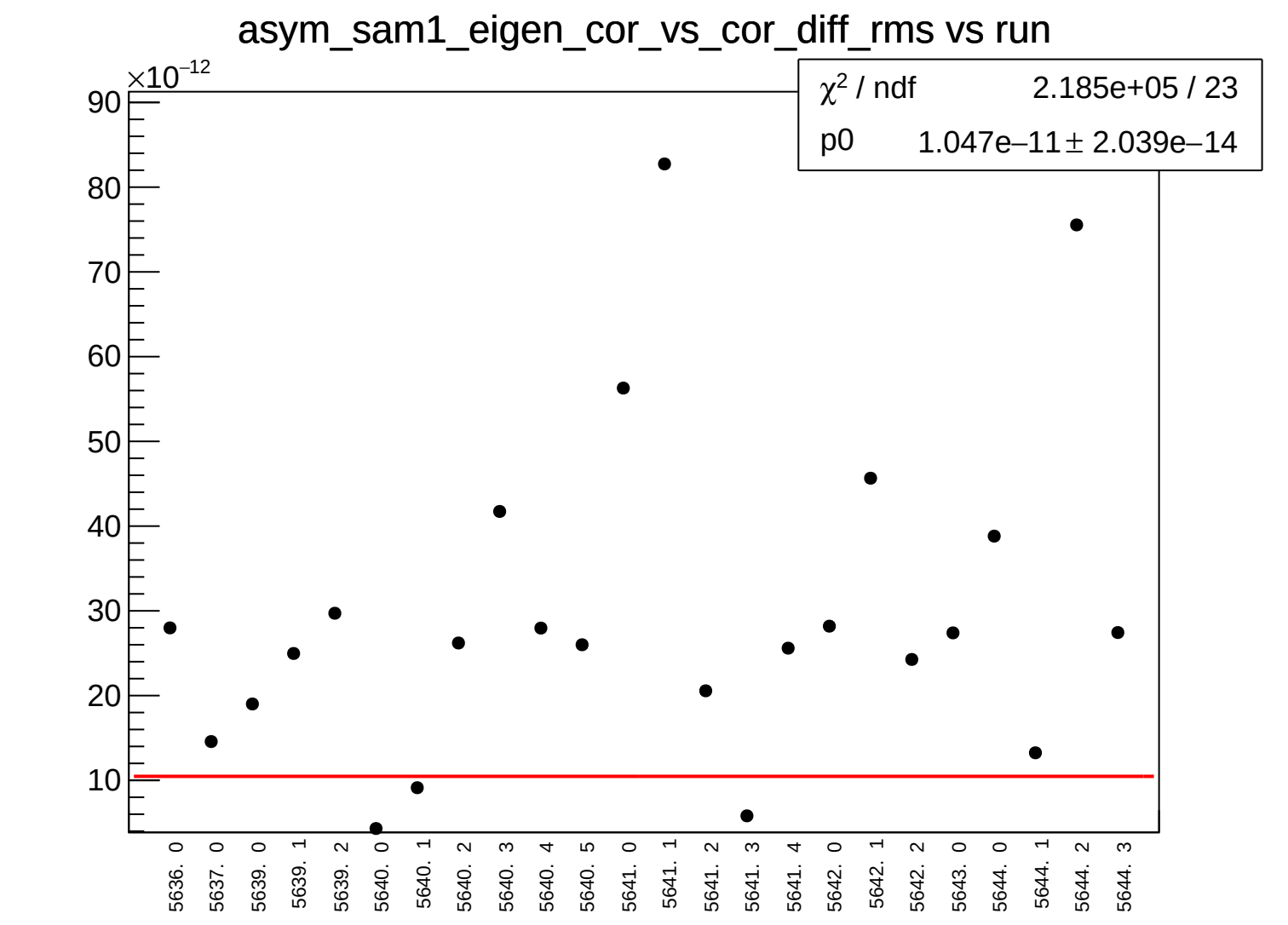

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.576e+04 / 23
p0 27.86 ± 0.0417
50
45
40
35
30
25
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

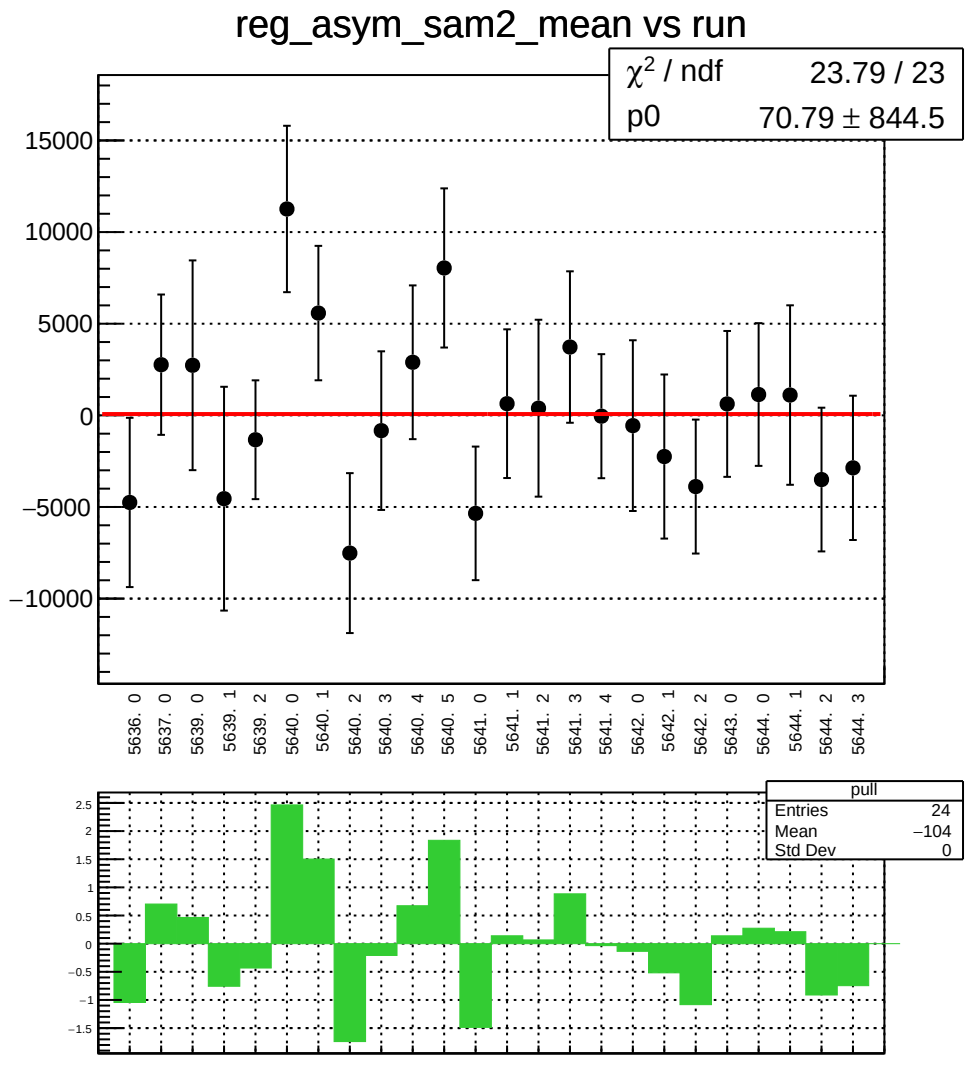

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.84 / 23
p0 −0.01666 ± 0.05897
1.5
1
0.5
0
−0.5
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −2.642
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

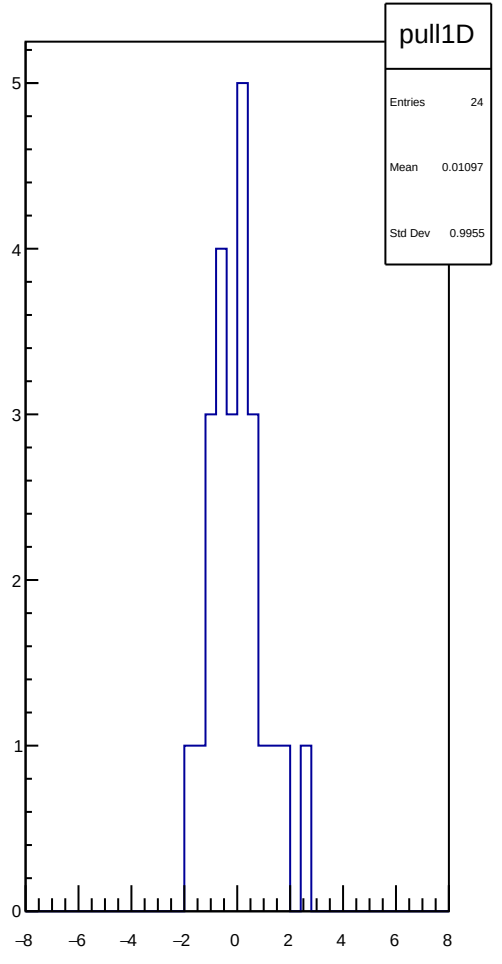

pull1D
Entries 24
Mean 0.04986
Std Dev 1.036
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

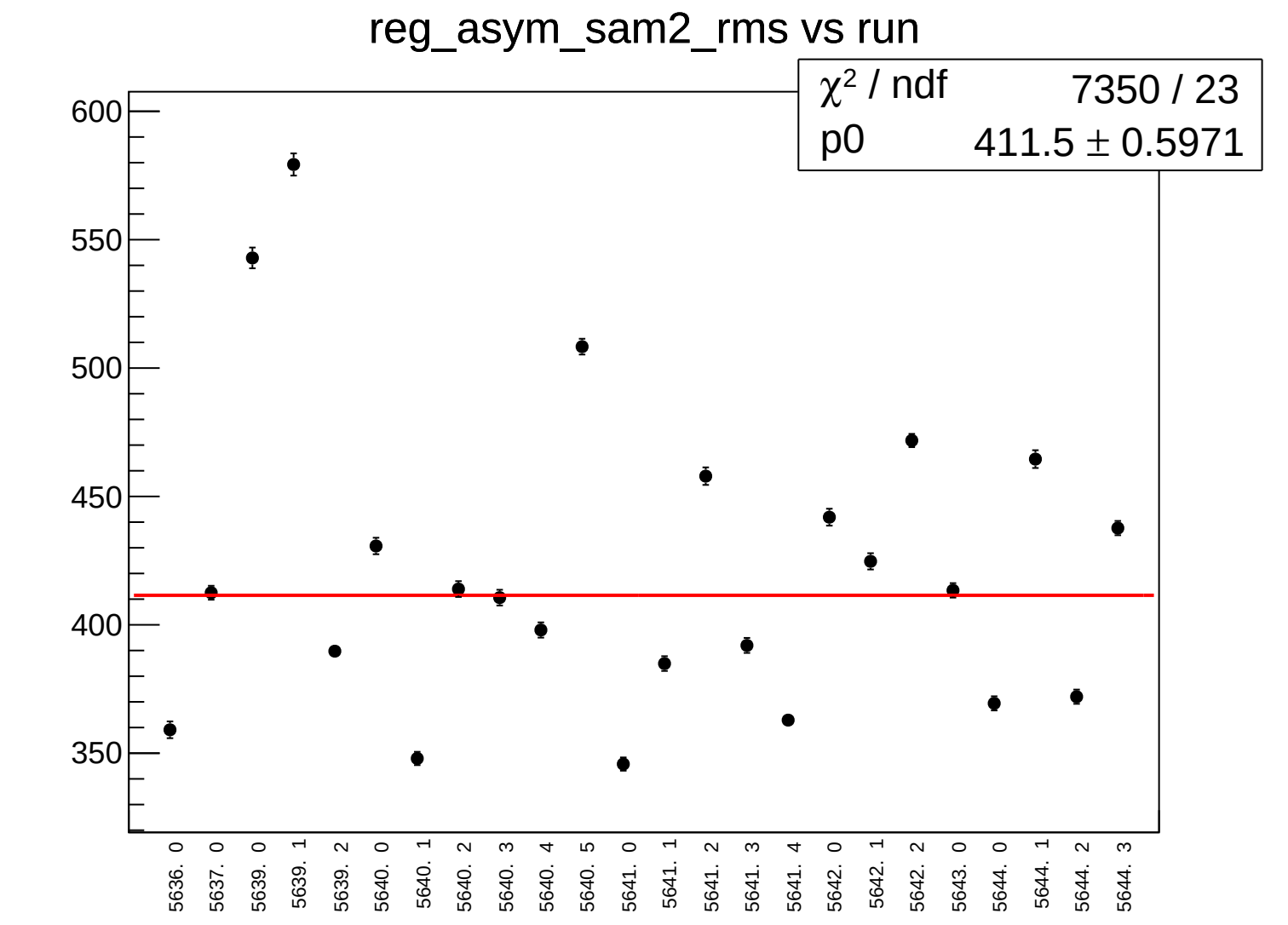

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.576e+04 / 23
p0 27.86 ± 0.0417
50
45
40
35
30
25
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

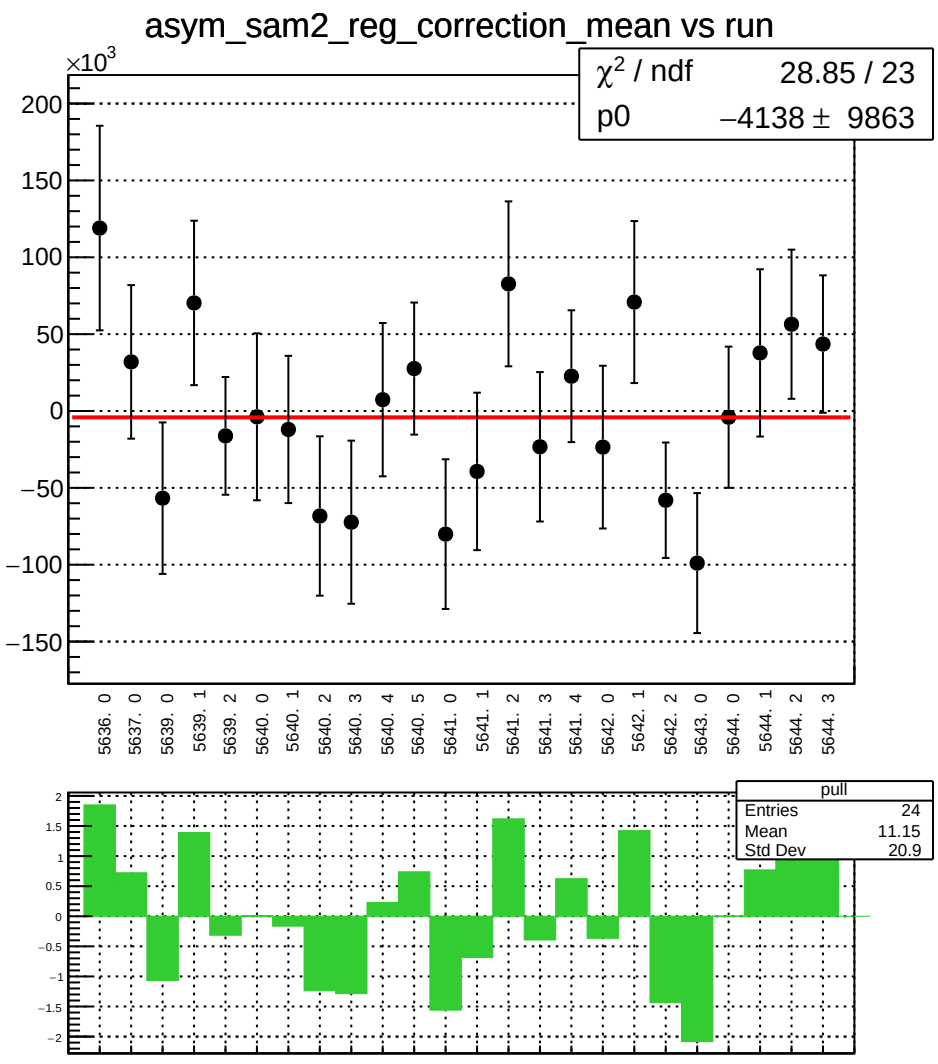

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 38.03 / 23
p0 −1.943e−14 ± 2.883e−14
2
1.5
1
0.5
0
−0.5
−1
−1.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 319.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 24
Mean 0.01122
Std Dev 1.259
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

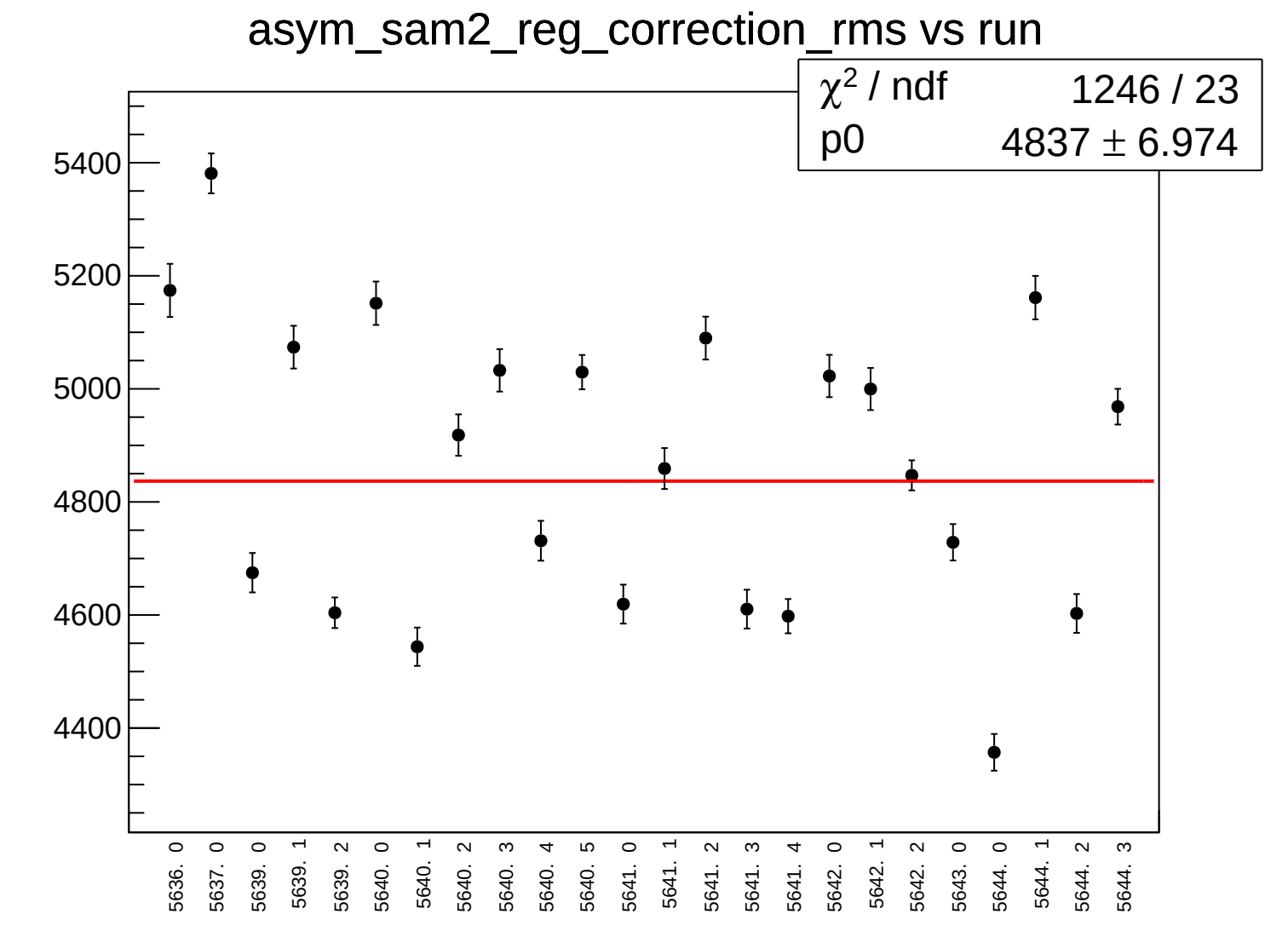

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.185e+05 / 23
p0 1.047e−11 ± 2.039e−14
90
80
70
60
50
40
30
20
10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

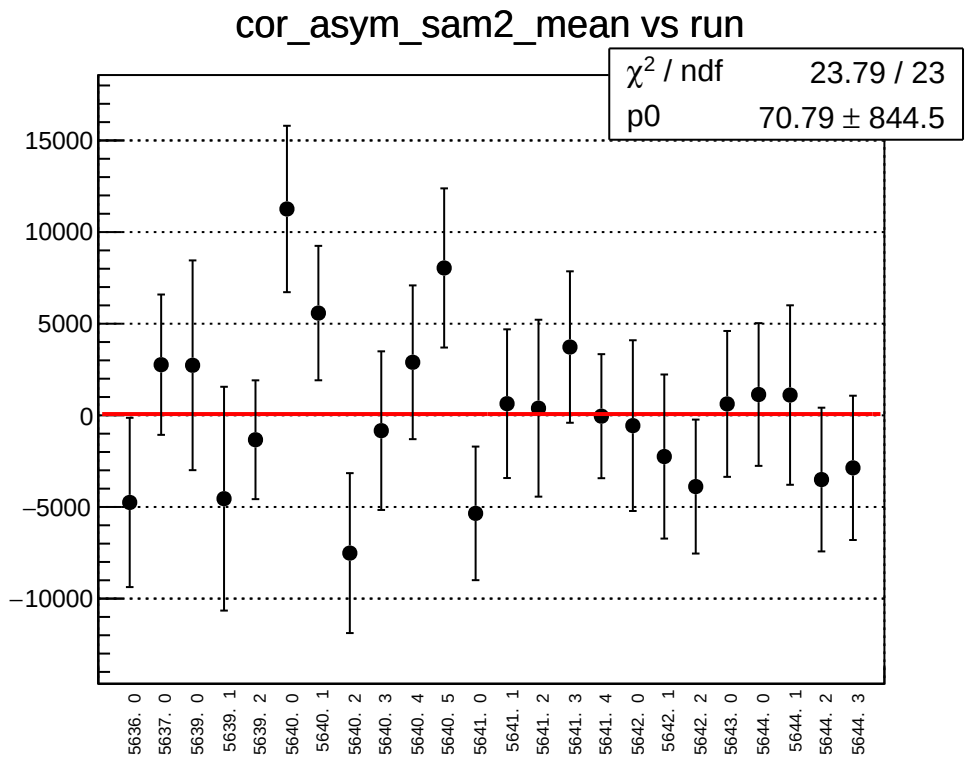

reg_asym_sam2_mean vs run
χ² / ndf 23.79 / 23
p0 70.79 ± 844.5
15000
10000
5000
0
−5000
−10000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −104
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

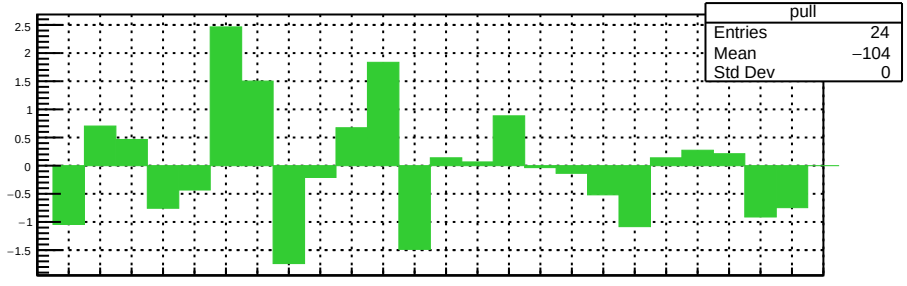

pull1D
Entries 24
Mean 0.01097
Std Dev 0.9955
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

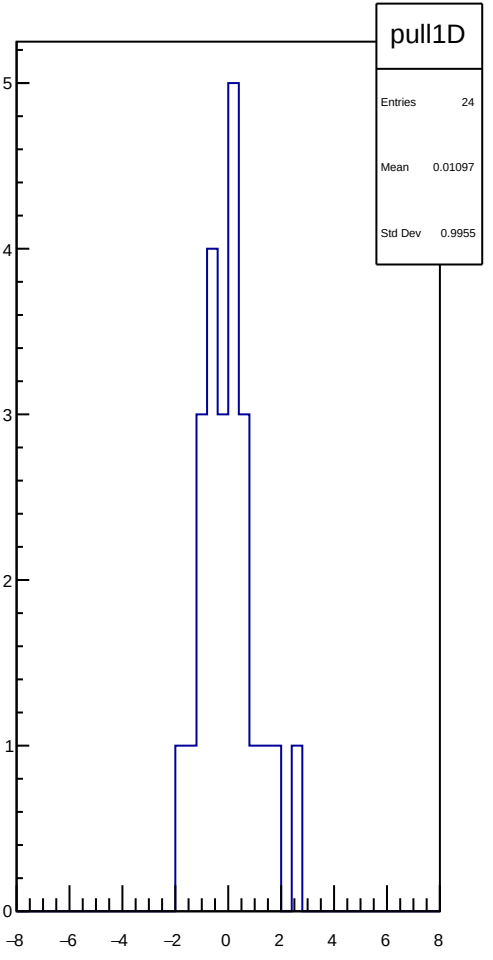

reg_asym_sam2_rms vs run
χ² / ndf 7350 / 23
p0 411.5 ± 0.5971
600
550
500
450
400
350
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

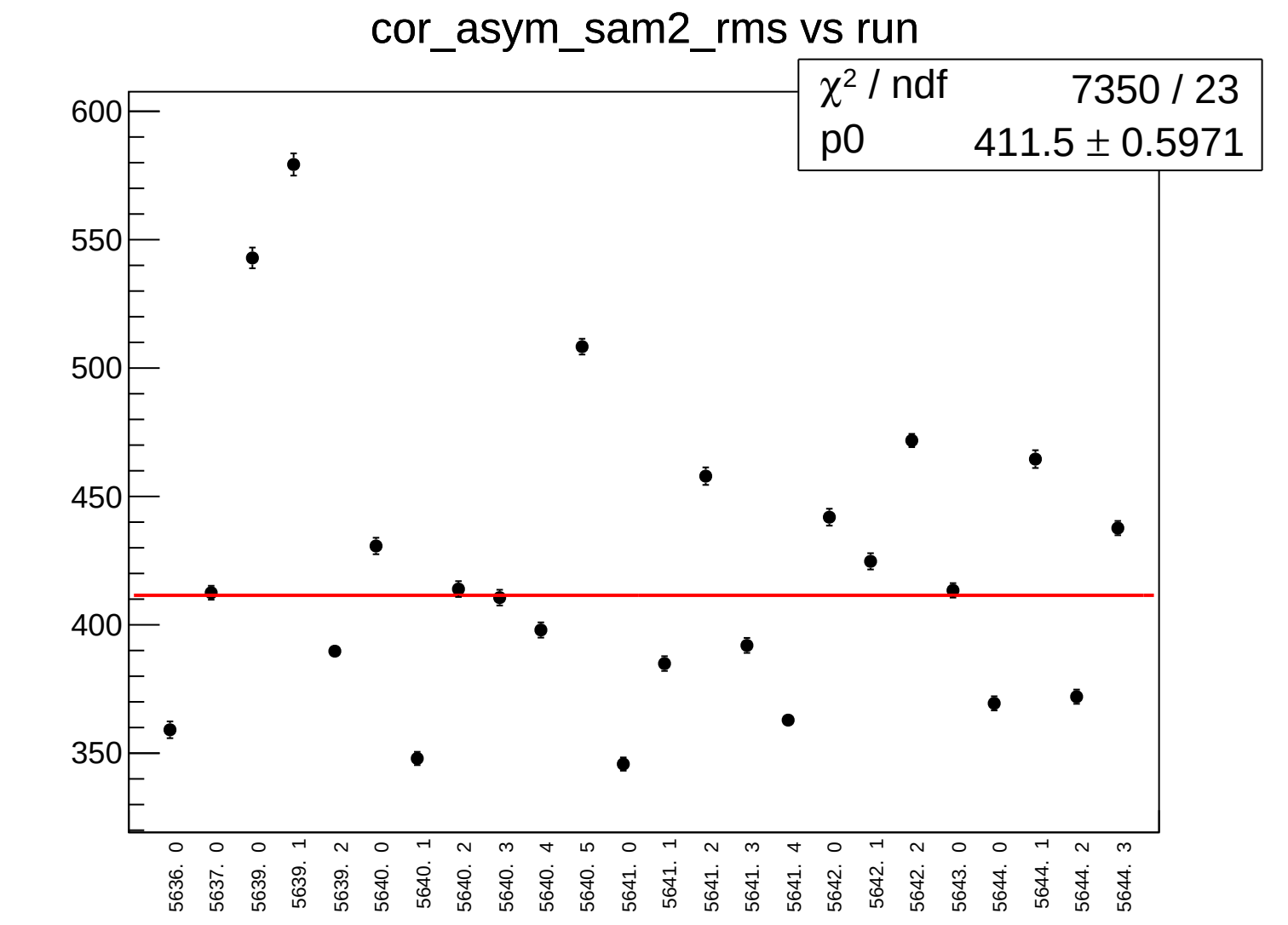

asym_sam2_reg_correction_mean vs run
×10^3
χ² / ndf 28.85 / 23
p0 −4138 ± 9863
200
150
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 11.15
Std Dev 20.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.04602
Std Dev 1.095
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

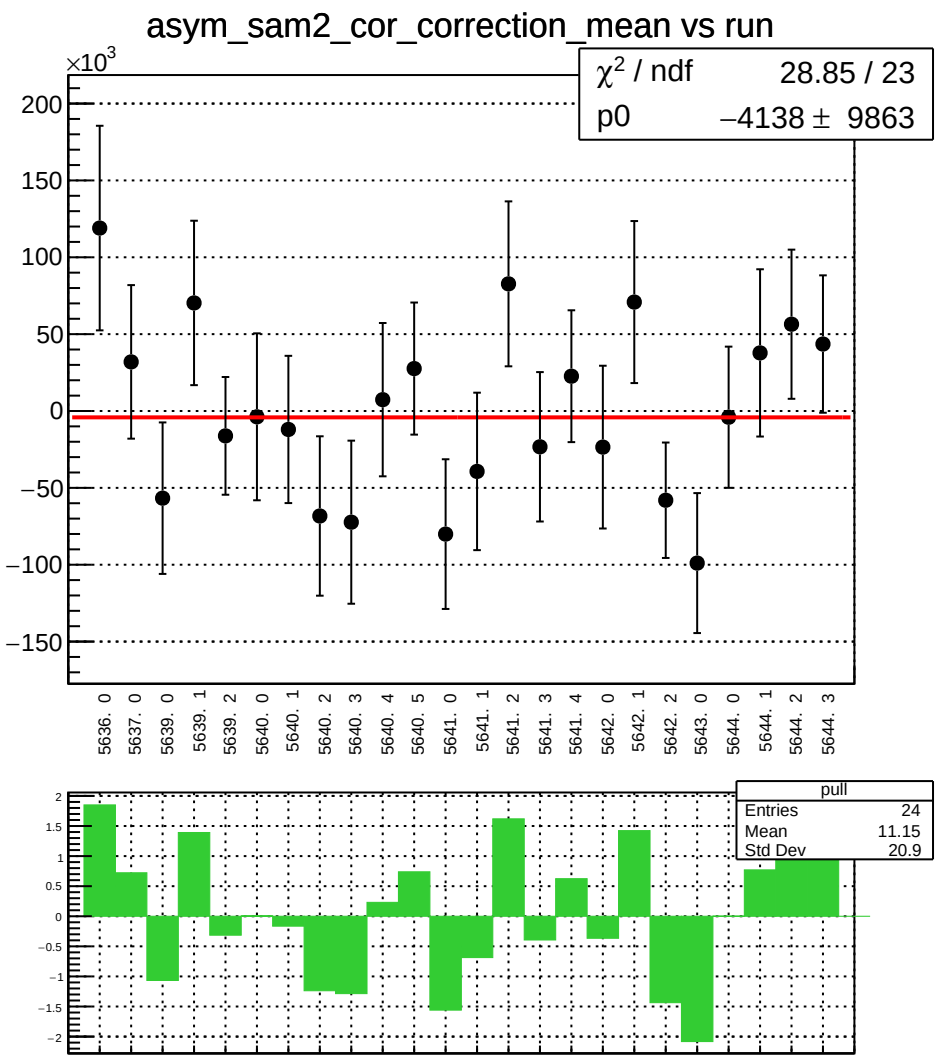

asym_sam2_reg_correction_rms vs run
χ² / ndf 1246 / 23
p0 4837 ± 6.974
5400
5200
5000
4800
4600
4400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

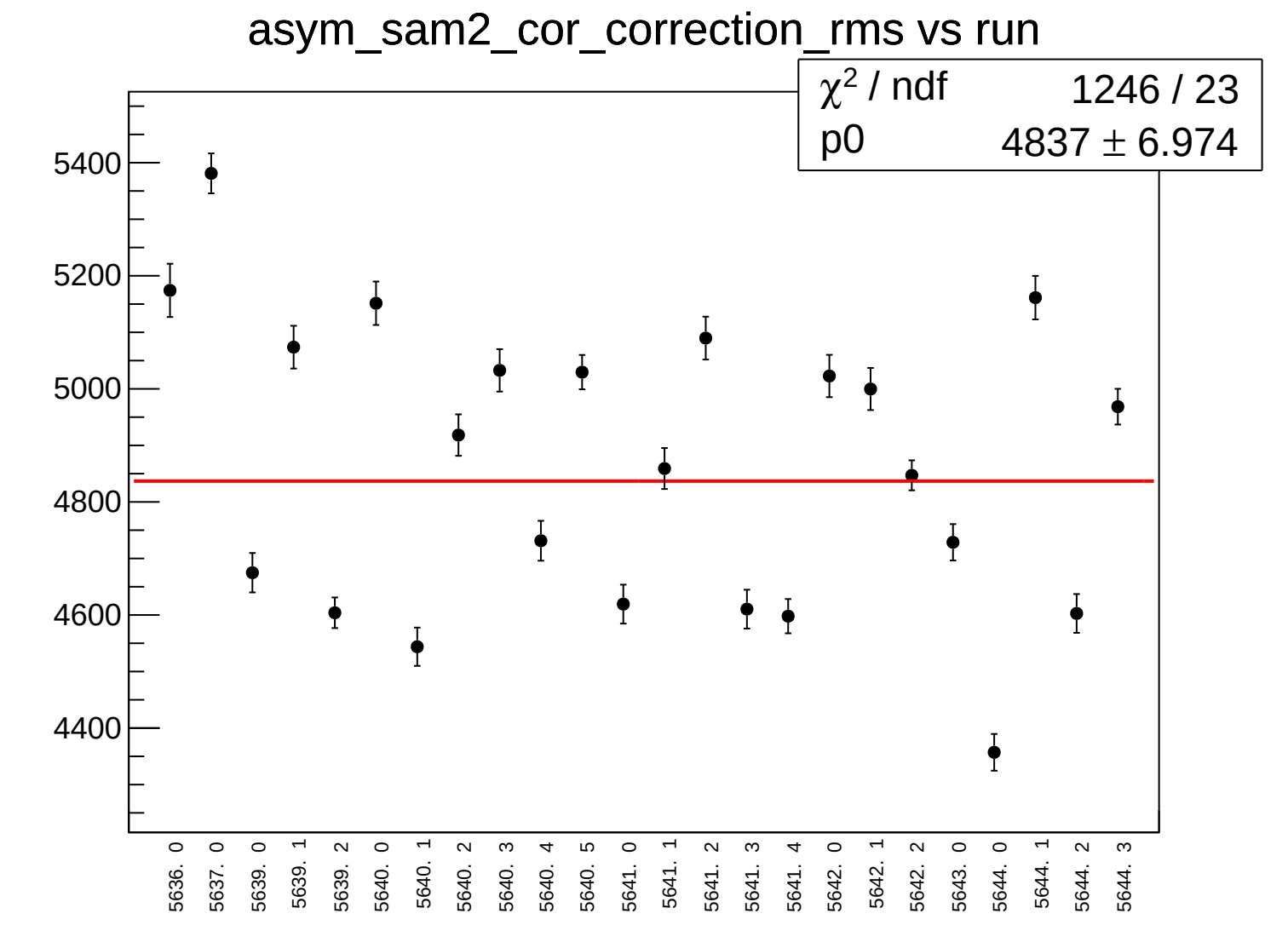

cor_asym_sam2_mean vs run
χ² / ndf 23.79 / 23
p0 70.79 ± 844.5
15000
10000
5000
0
−5000
−10000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

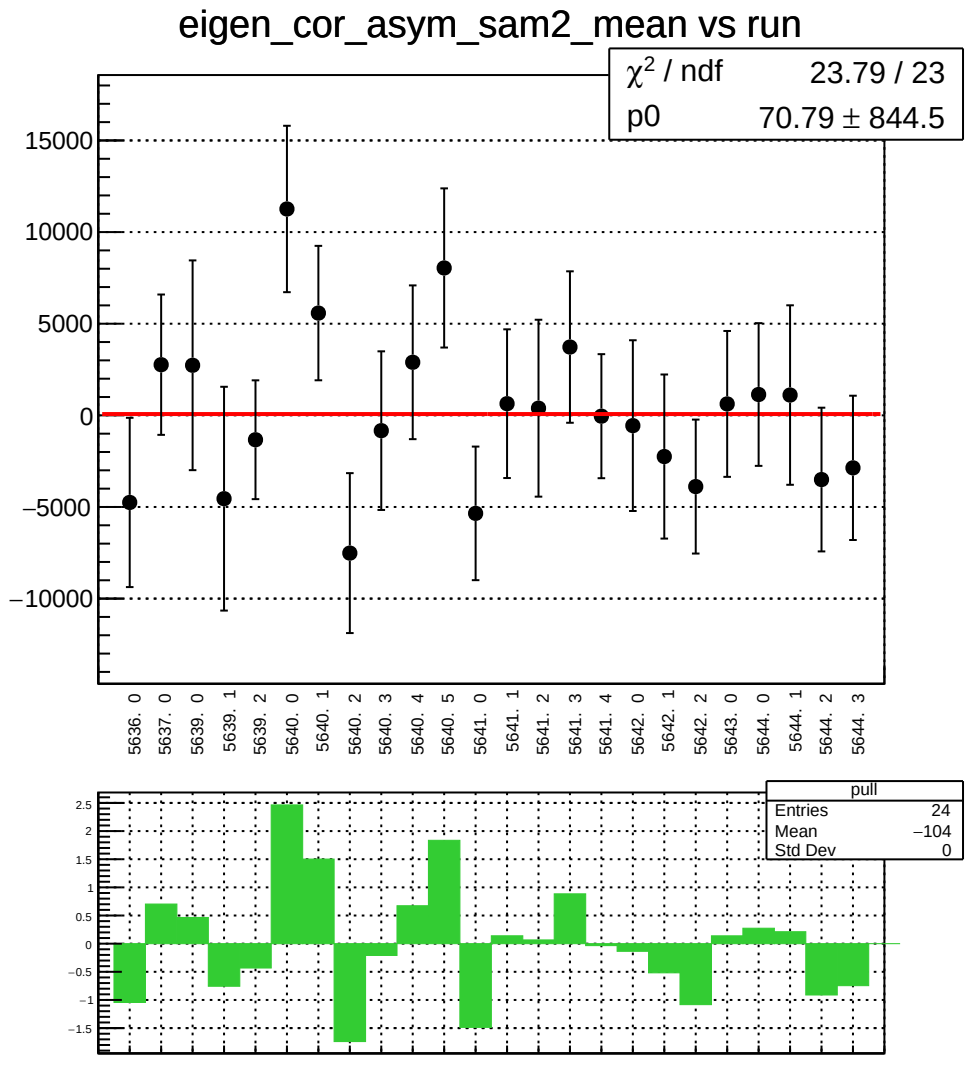

pull
Entries 24
Mean −104
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

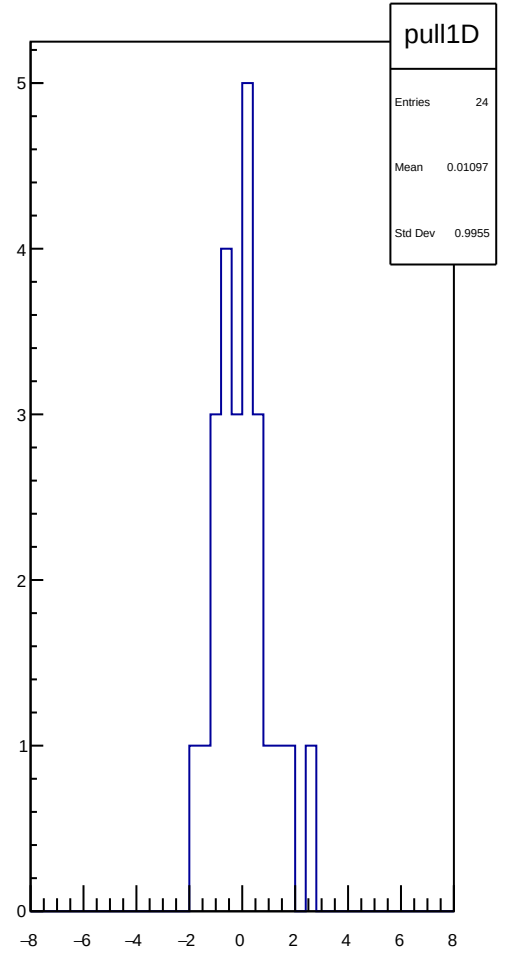

pull1D
Entries 24
Mean 0.01097
Std Dev 0.9955
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

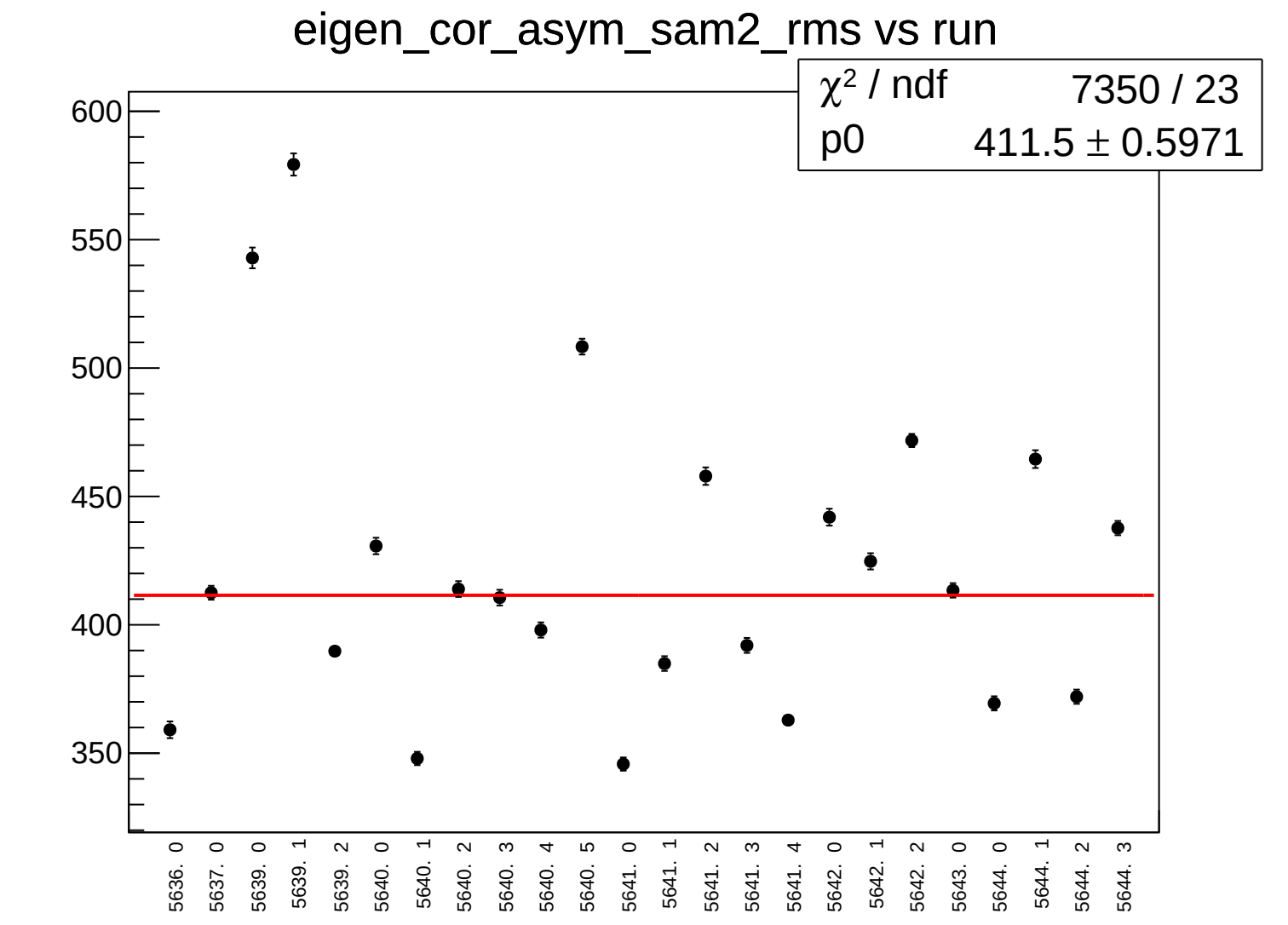

cor_asym_sam2_rms vs run
χ² / ndf 7350 / 23
p0 411.5 ± 0.5971
600
550
500
450
400
350
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

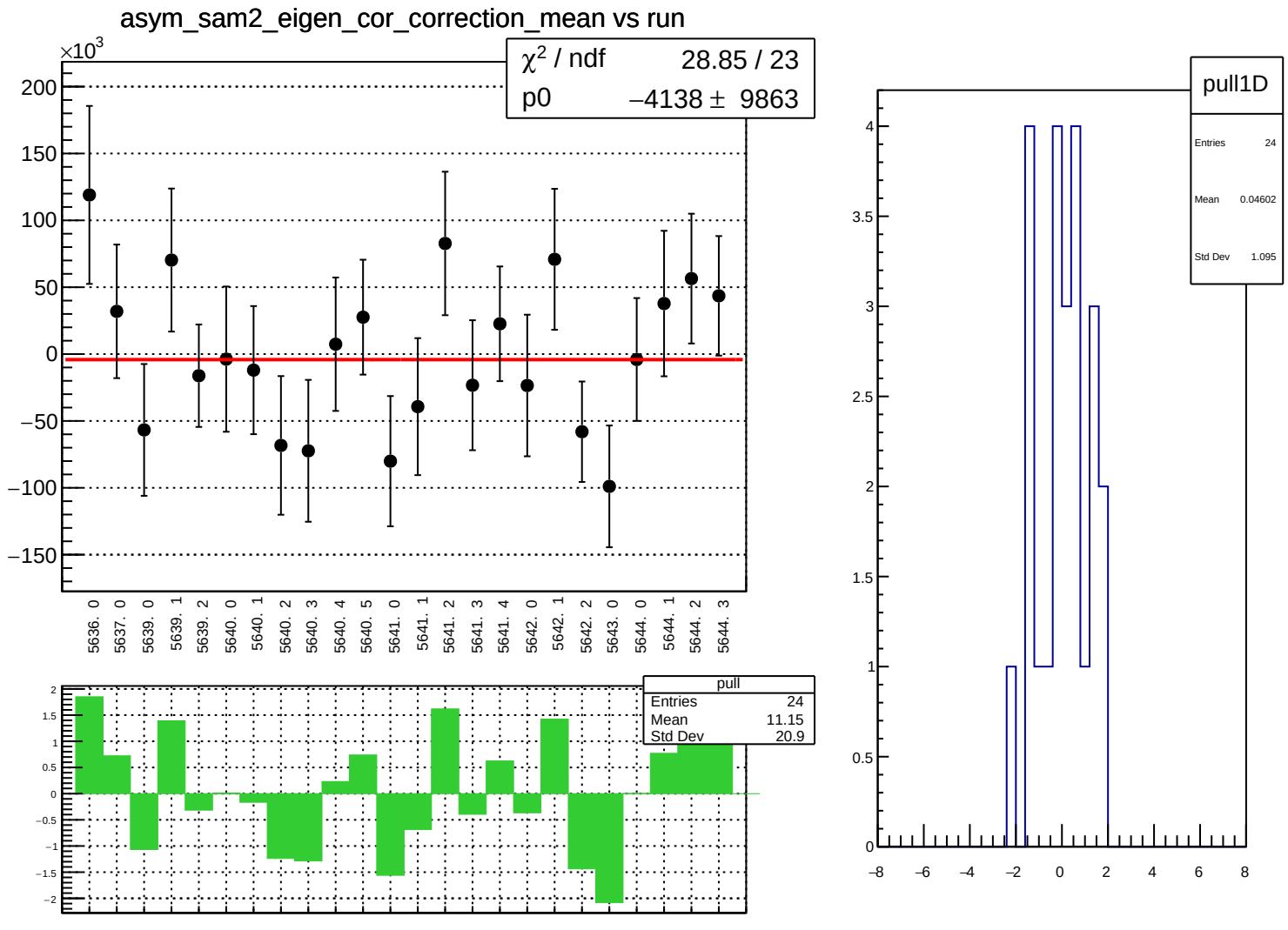

asym_sam2_cor_correction_mean vs run
×10^3
χ² / ndf 28.85 / 23
p0 −4138 ± 9863
200
150
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 11.15
Std Dev 20.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.04602
Std Dev 1.095
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

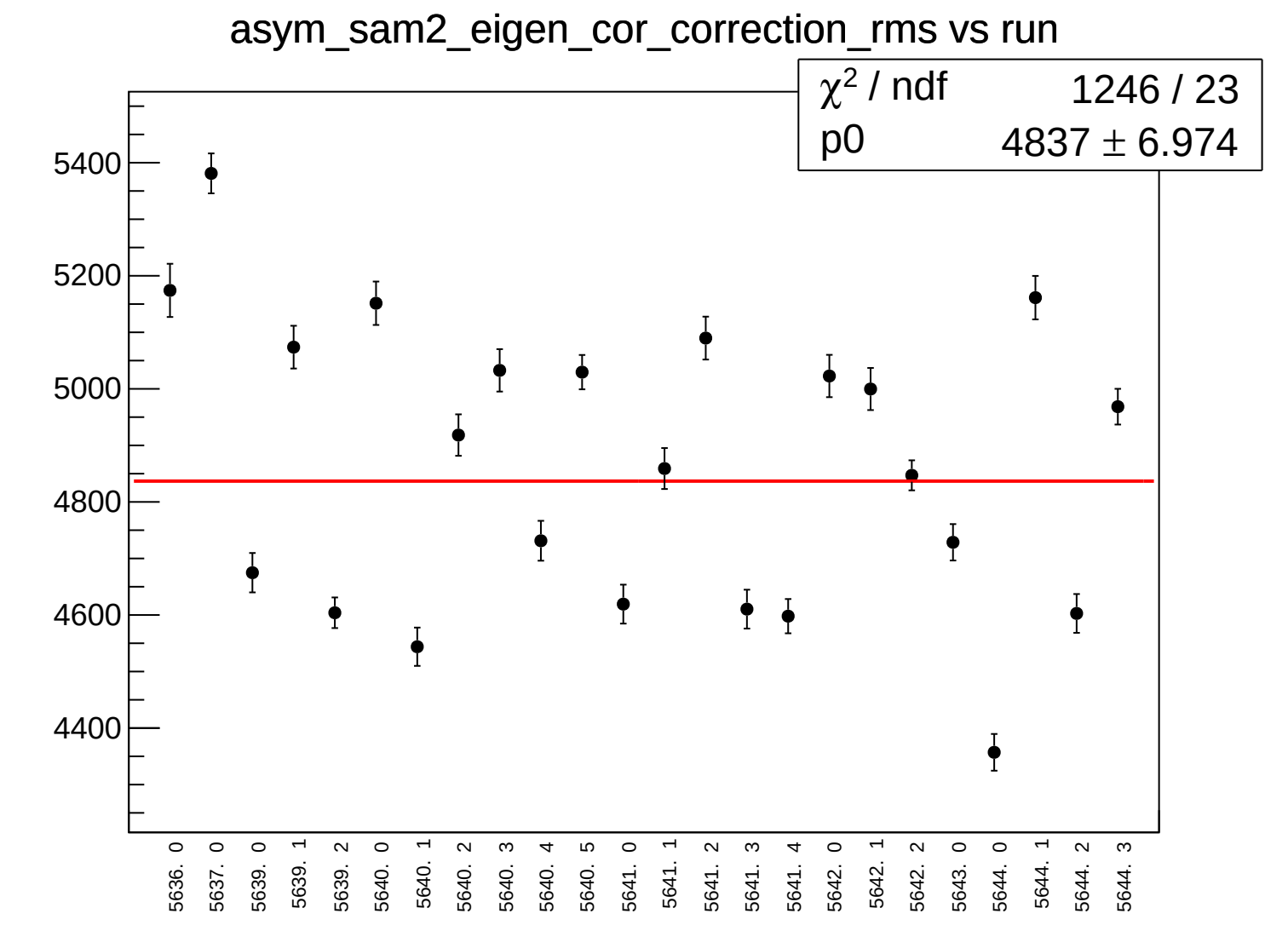

asym_sam2_cor_correction_rms vs run
χ² / ndf 1246 / 23
p0 4837 ± 6.974
5400
5200
5000
4800
4600
4400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

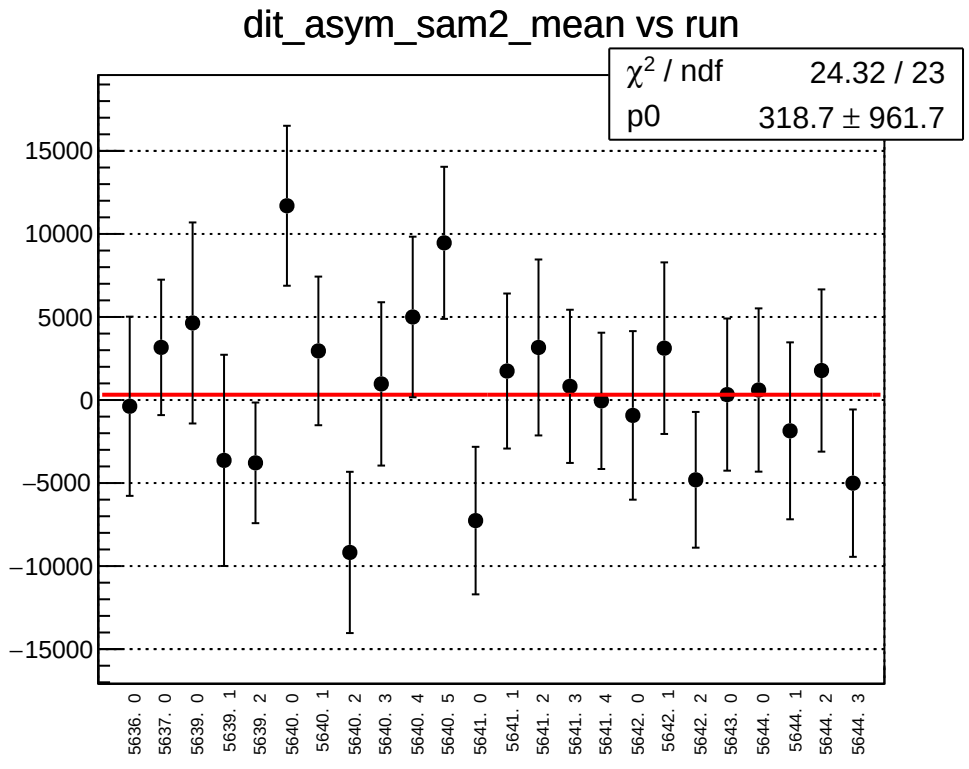

eigen_cor_asym_sam2_mean vs run
χ² / ndf 23.79 / 23
p0 70.79 ± 844.5
15000
10000
5000
0
−5000
−10000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −104
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean 0.01097
Std Dev 0.9955
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam2_rms vs run
χ² / ndf 7350 / 23
p0 411.5 ± 0.5971
600
550
500
450
400
350
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 28.85 / 23
p0 −4138 ± 9863
200
150
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 11.15
Std Dev 20.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.04602
Std Dev 1.095
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 1246 / 23
p0 4837 ± 6.974
5400
5200
5000
4800
4600
4400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


dit_asym_sam2_mean vs run
χ² / ndf 24.32 / 23
p0 318.7 ± 961.7
15000
10000
5000
0
−5000
−10000
−15000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
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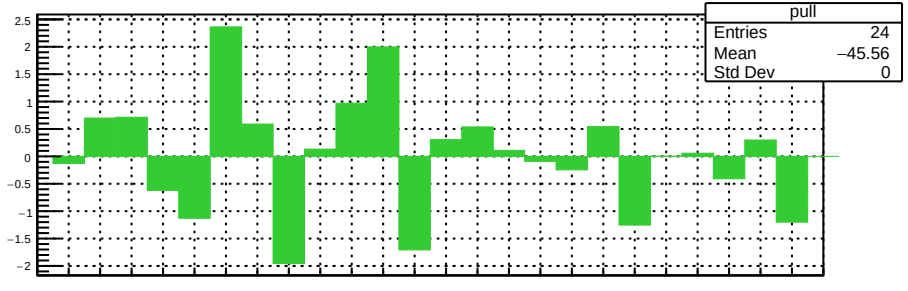
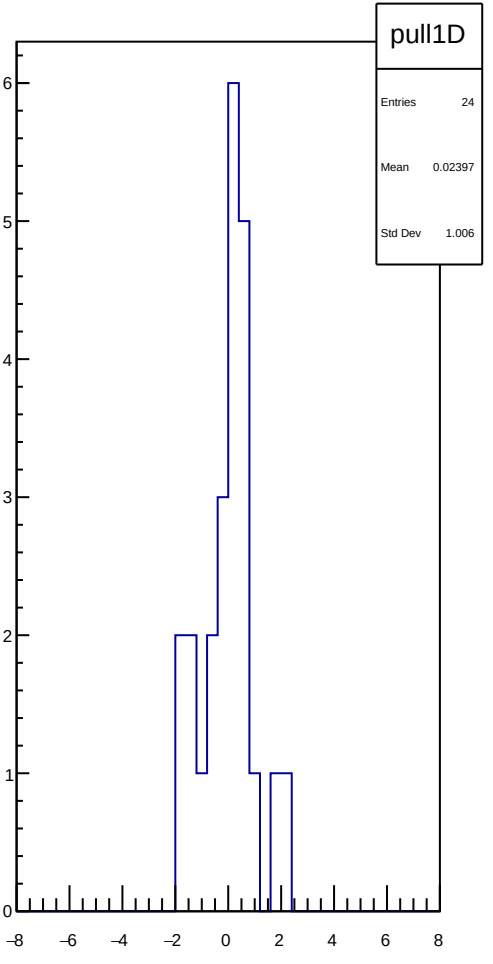
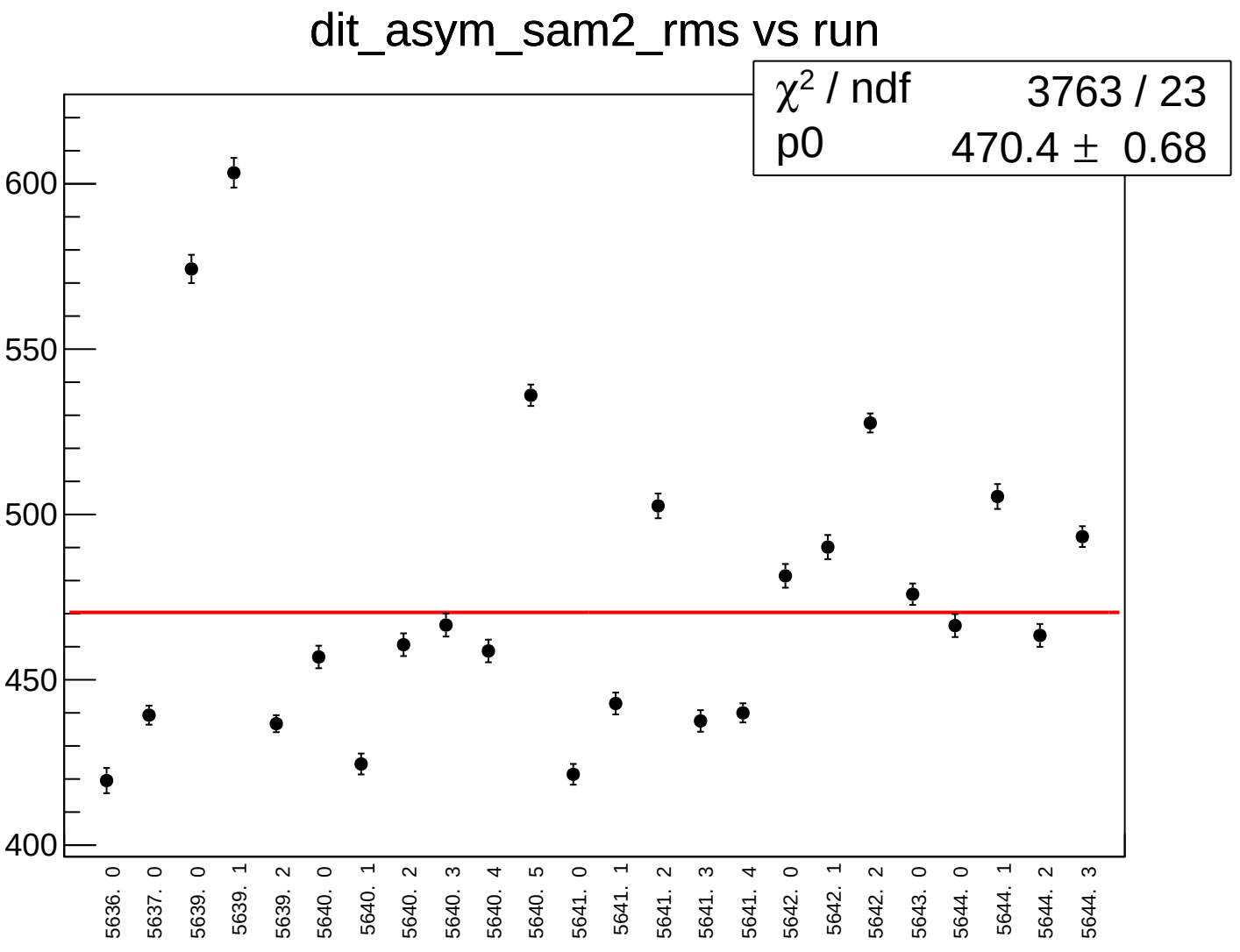
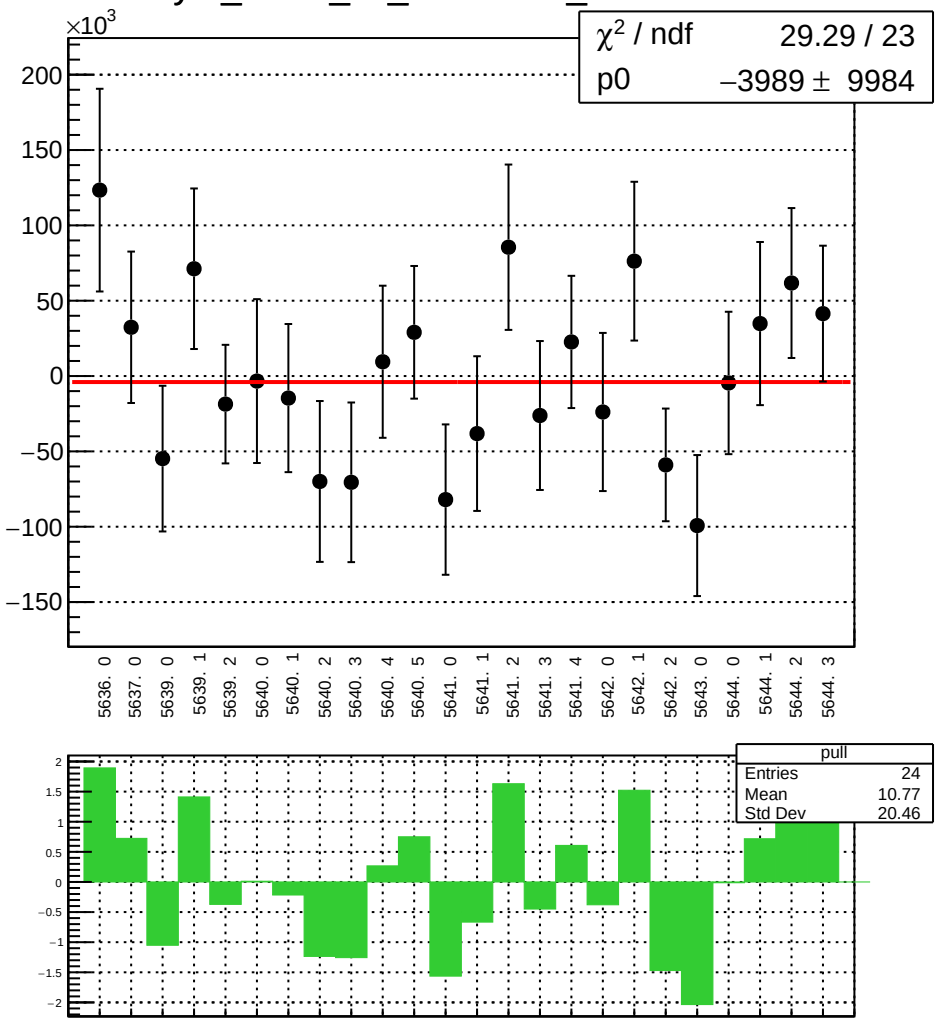
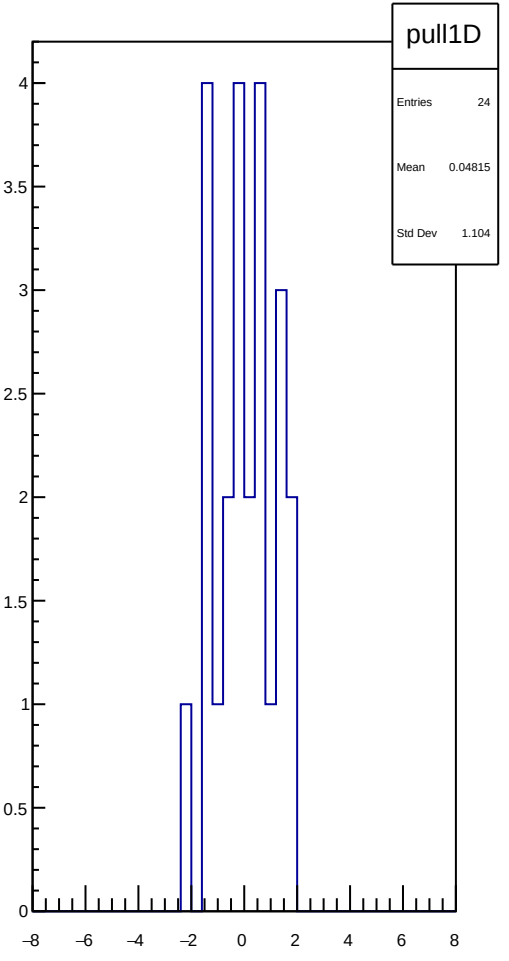
5644. 2
5644. 3

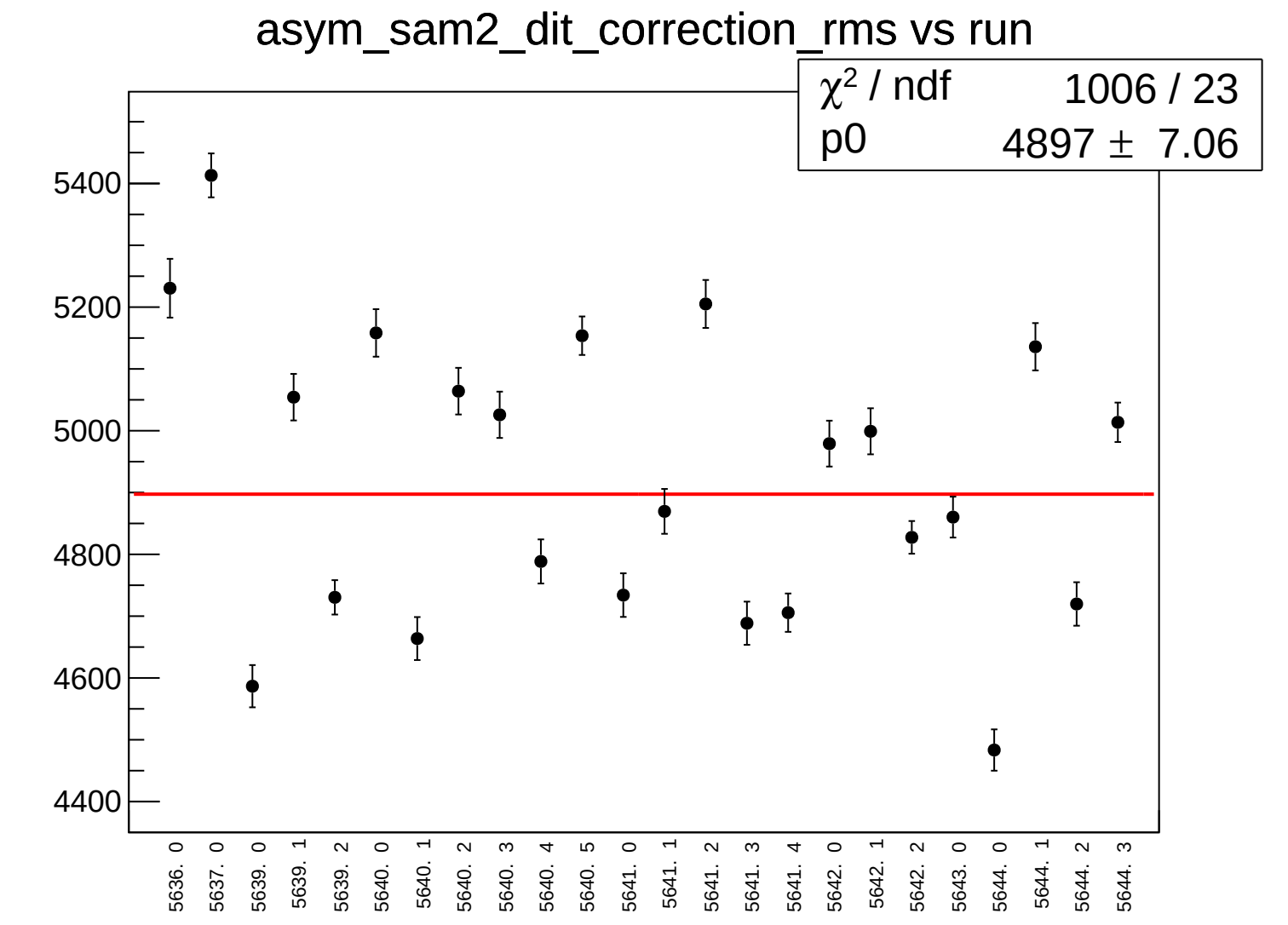

pull
Entries 24
Mean −45.56
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

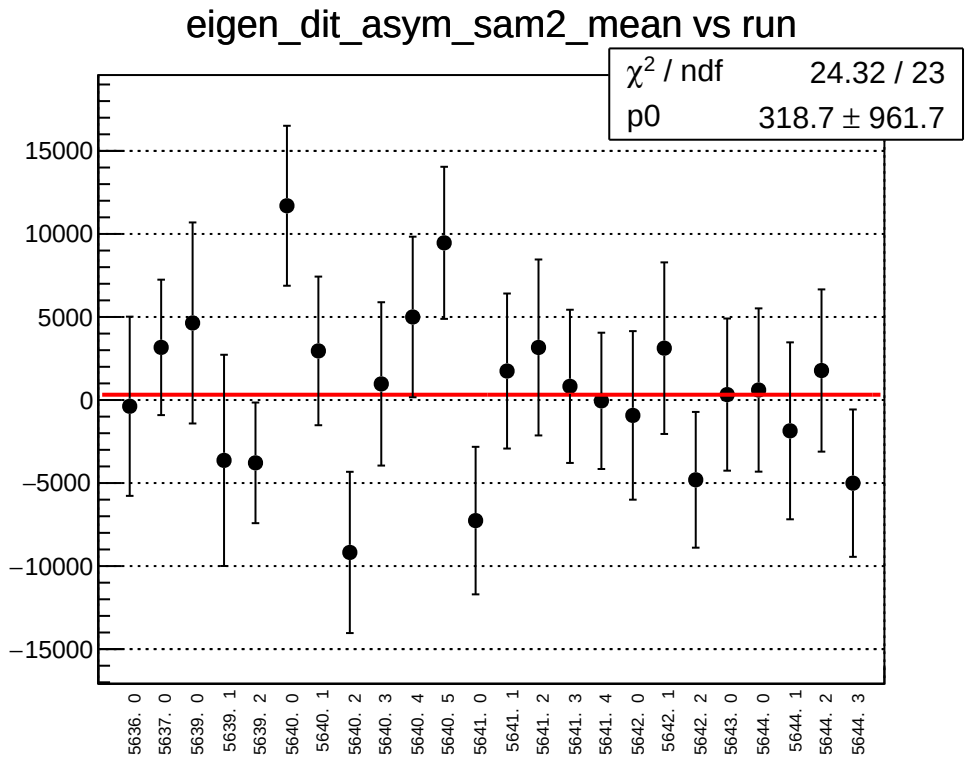

pull1D
Entries 24
Mean 0.02397
Std Dev 1.006
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam2_rms vs run
χ² / ndf 3763 / 23
p0 470.4 ± 0.68
600
550
500
450
400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 29.29 / 23
p0 −3989 ± 9984
200
150
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 10.77
Std Dev 20.46
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean 0.04815
Std Dev 1.104
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam2_dit_correction_rms vs run
χ² / ndf 1006 / 23
p0 4897 ± 7.06
5400
5200
5000
4800
4600
4400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_dit_asym_sam2_mean vs run
χ² / ndf 24.32 / 23
p0 318.7 ± 961.7
15000
10000
5000
0
−5000
−10000
−15000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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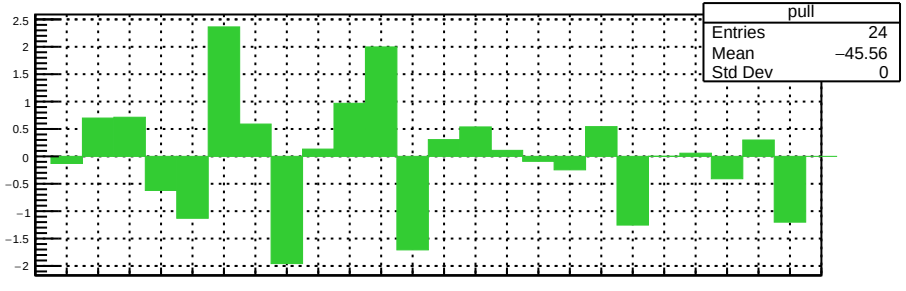
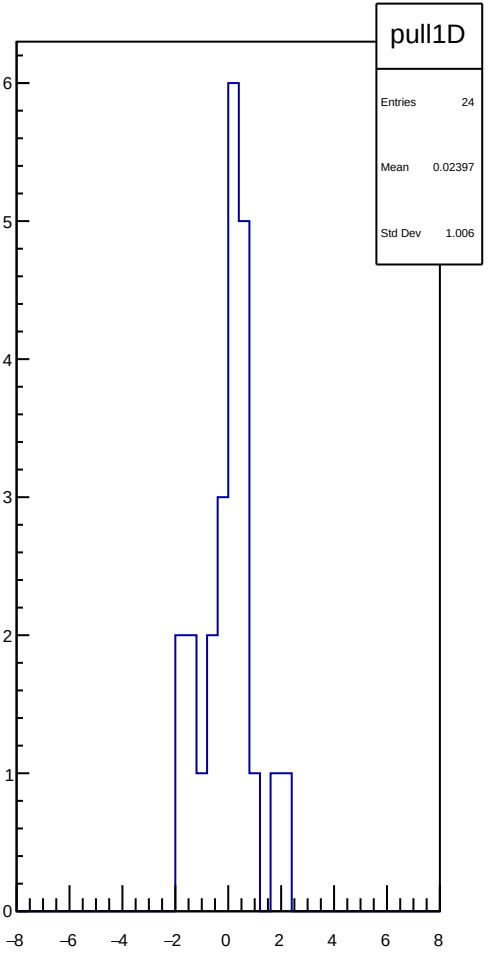
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


pull
Entries 24
Mean −45.56
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean 0.02397
Std Dev 1.006
6
5
4
3
2
1
0
−8
−6
−4
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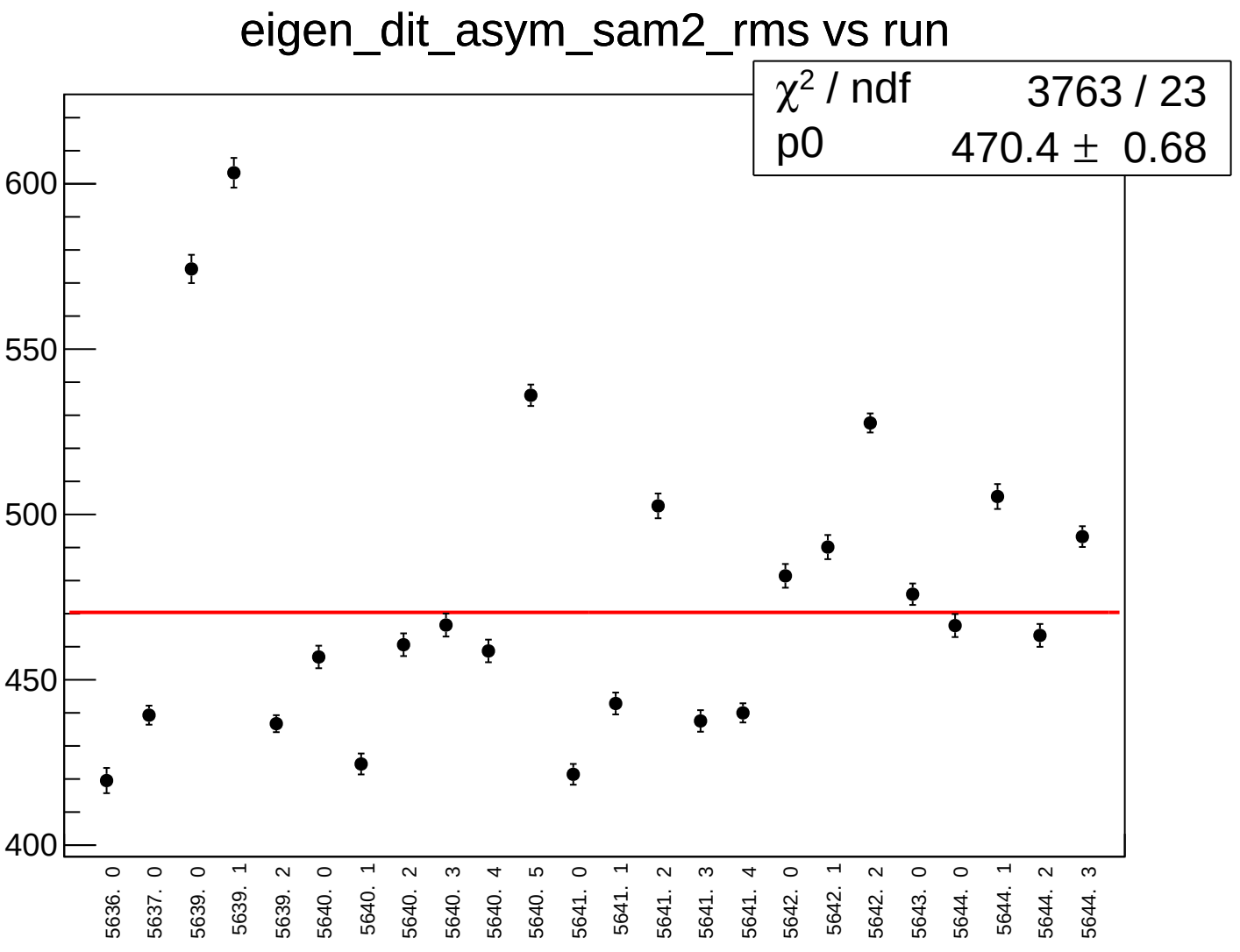
0
2
4
6
8


eigen_dit_asym_sam2_rms vs run
χ² / ndf 3763 / 23
p0 470.4 ± 0.68
600
550
500
450
400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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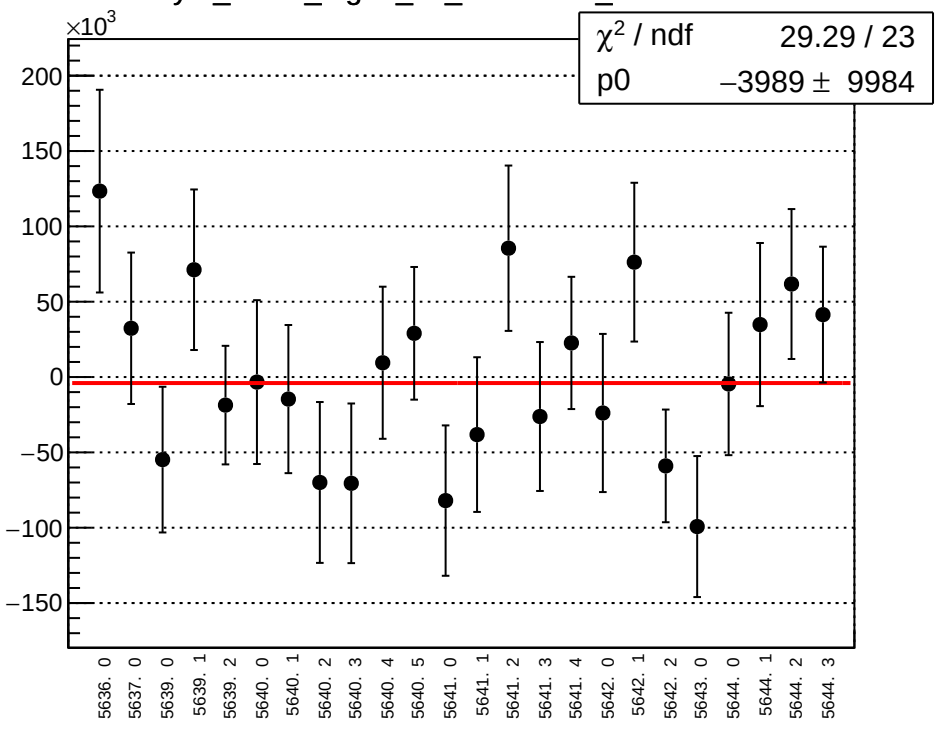
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 29.29 / 23
p0 −3989 ± 9984
200
150
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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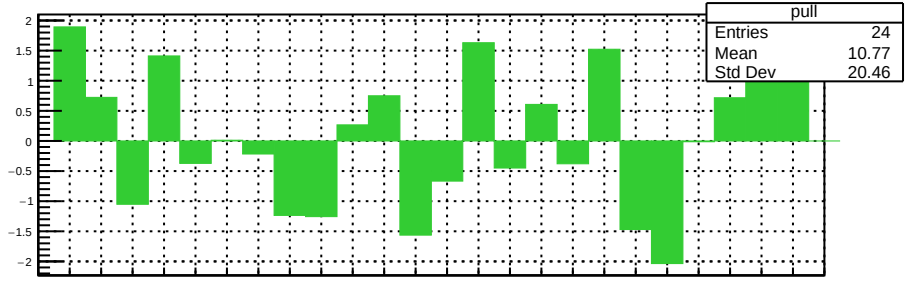
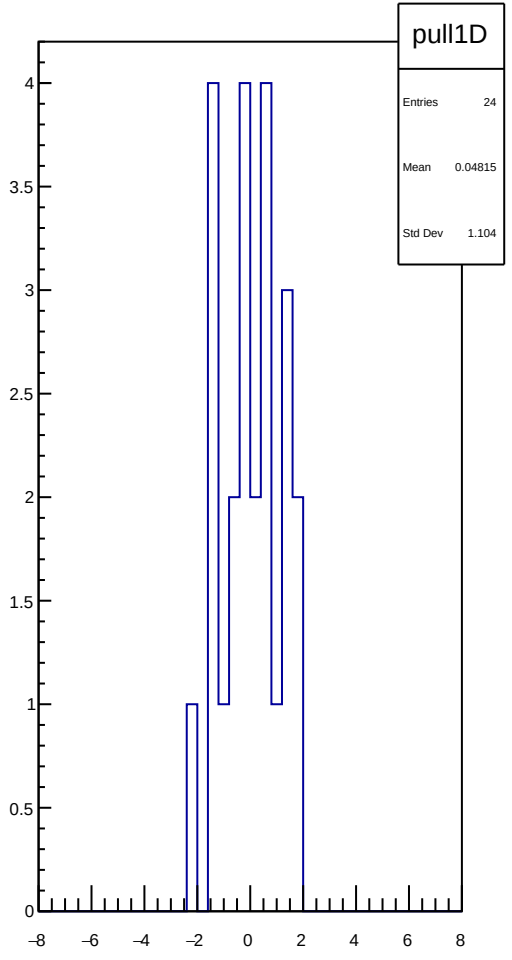
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


pull
Entries 24
Mean 10.77
Std Dev 20.46
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean 0.04815
Std Dev 1.104
4
3.5
3
2.5
2
1.5
1
0.5
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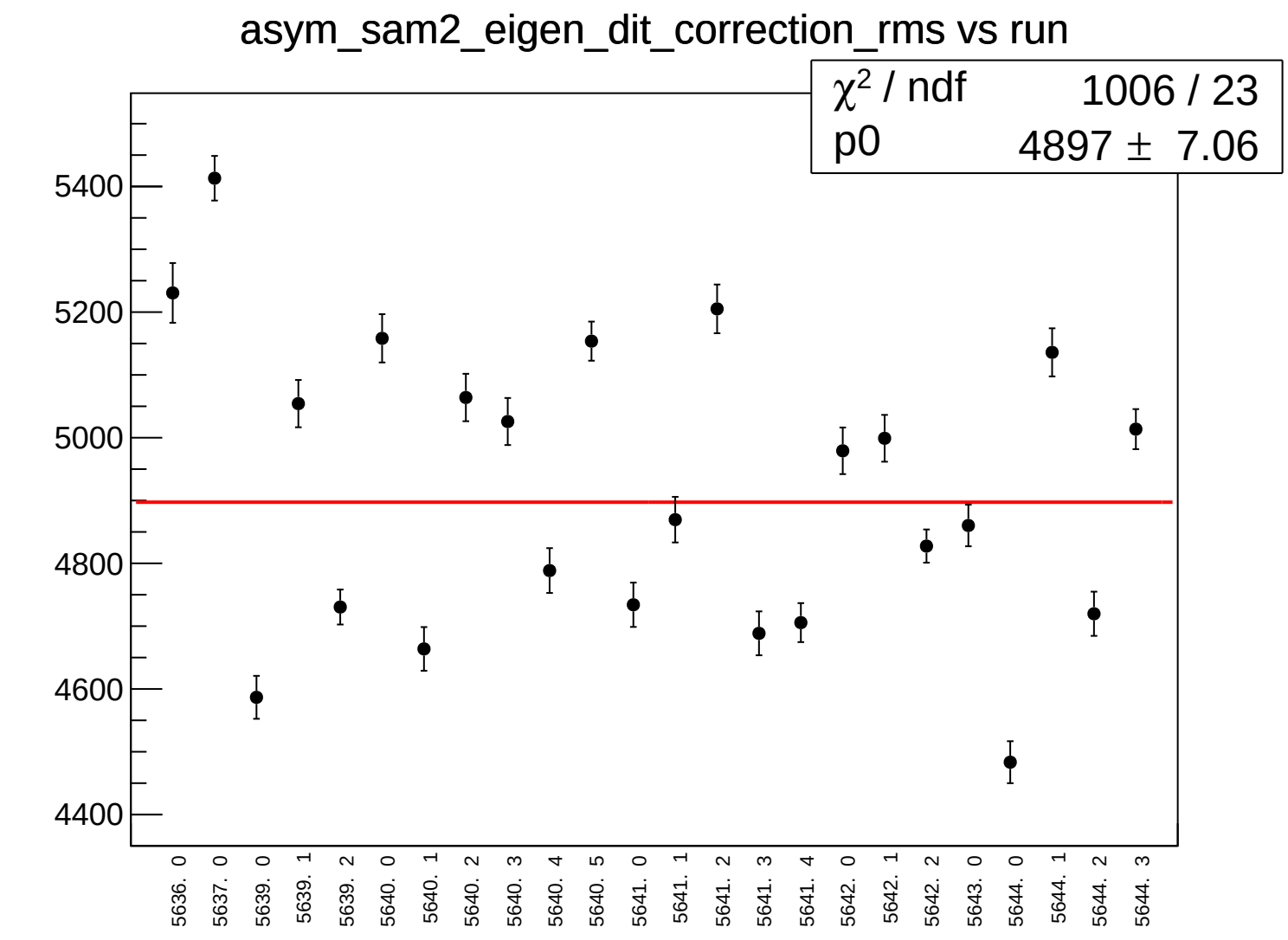
−8
−6
−4
−2
0
2
4
6
8


asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 1006 / 23
p0 4897 ± 7.06
5400
5200
5000
4800
4600
4400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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5642. 0
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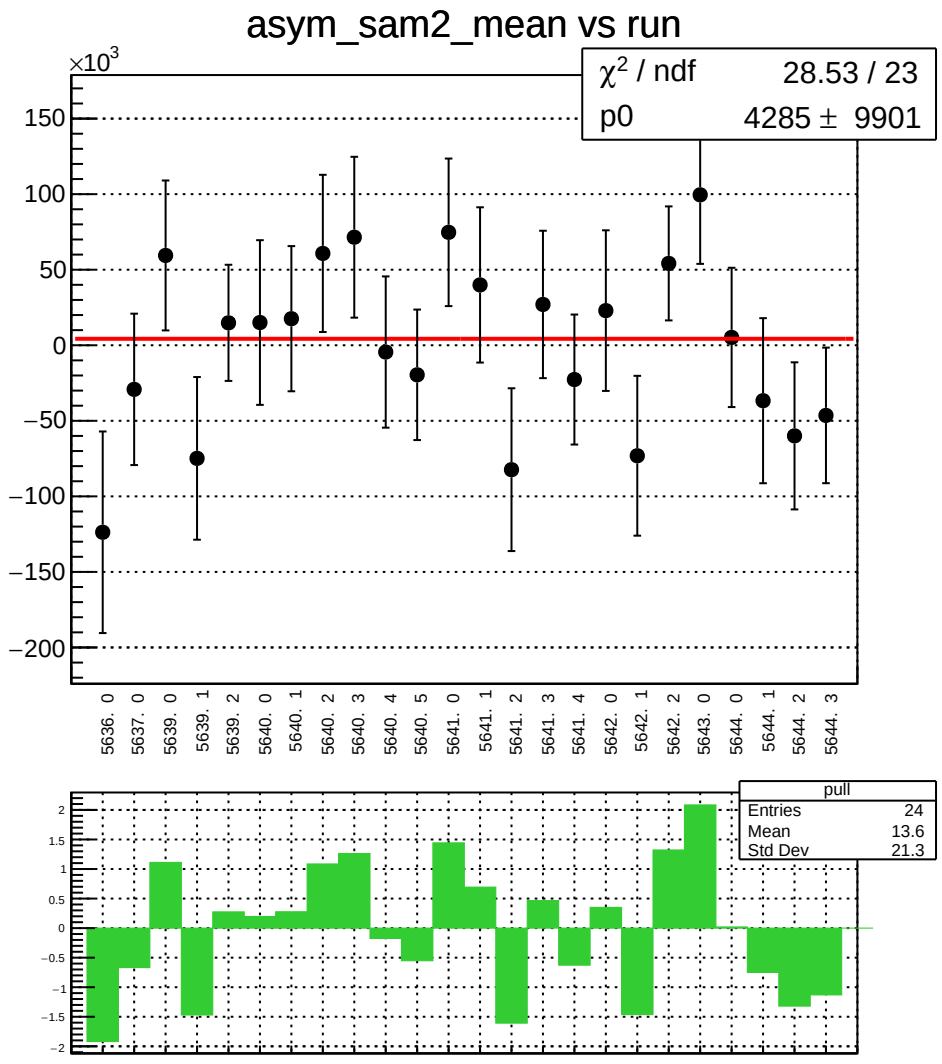
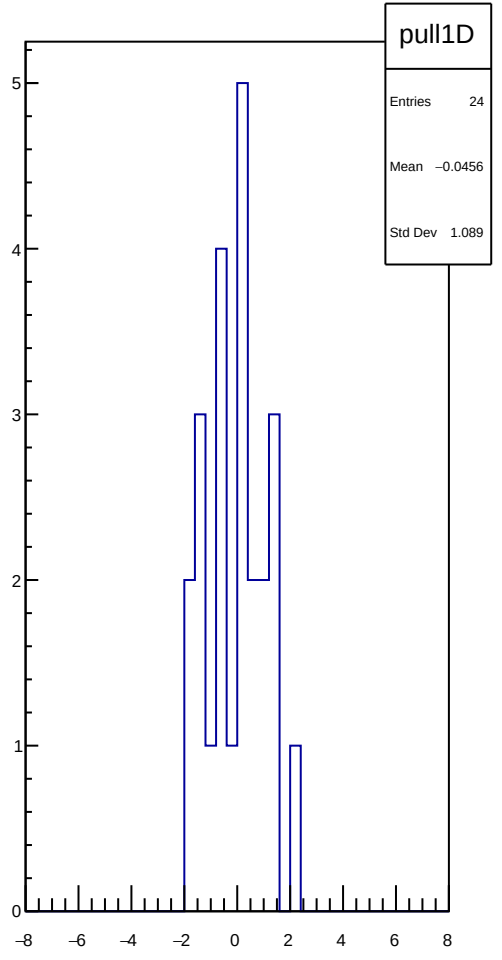
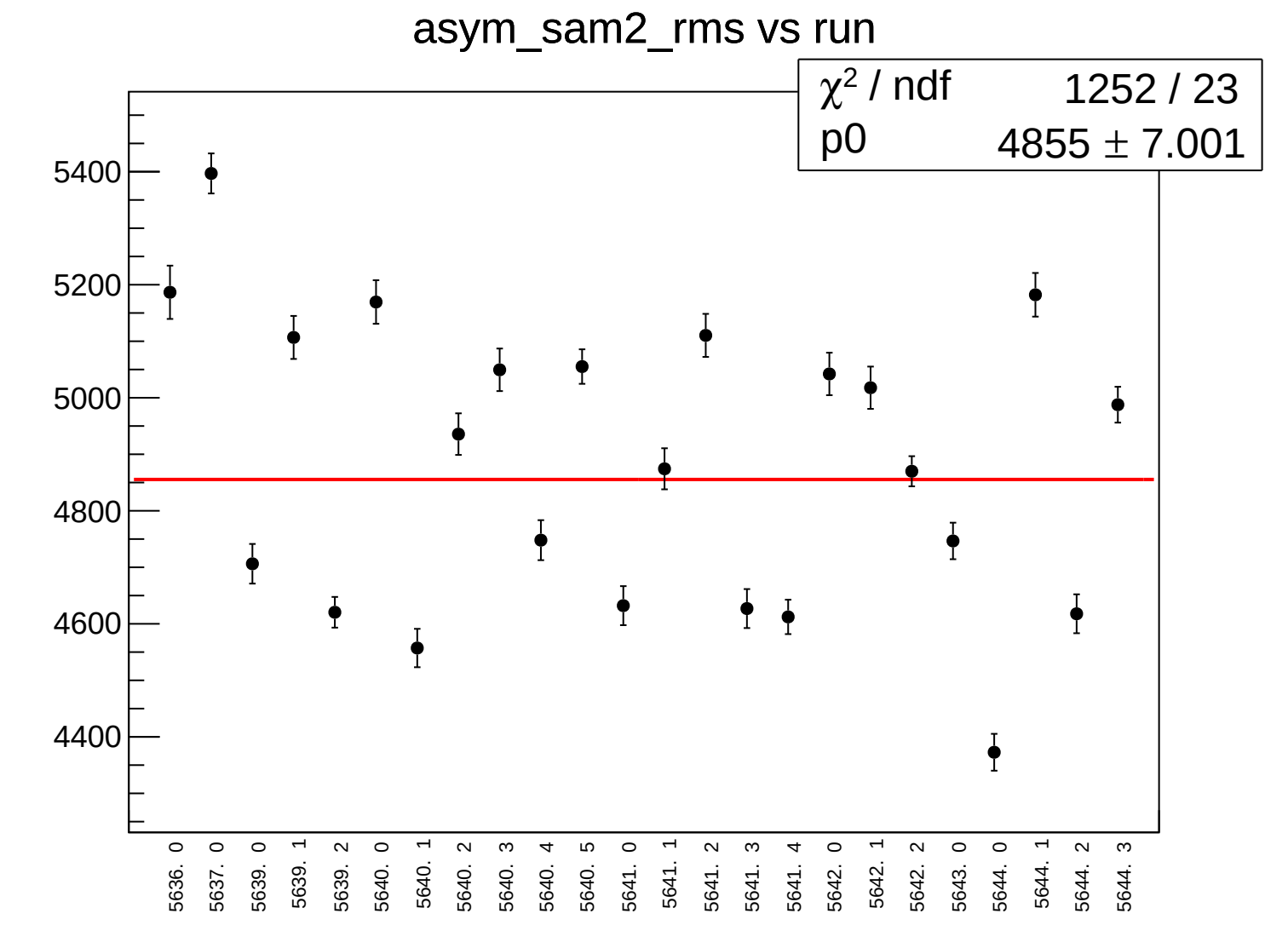
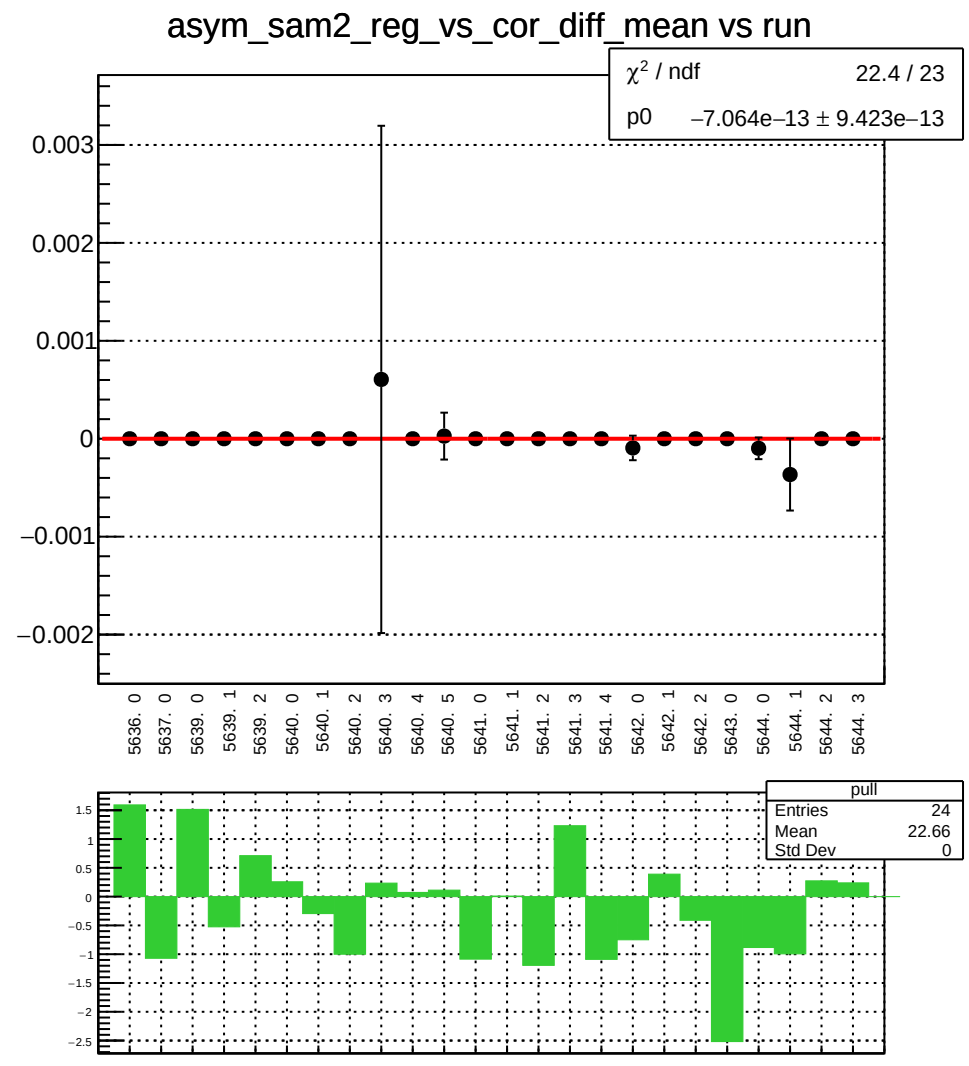
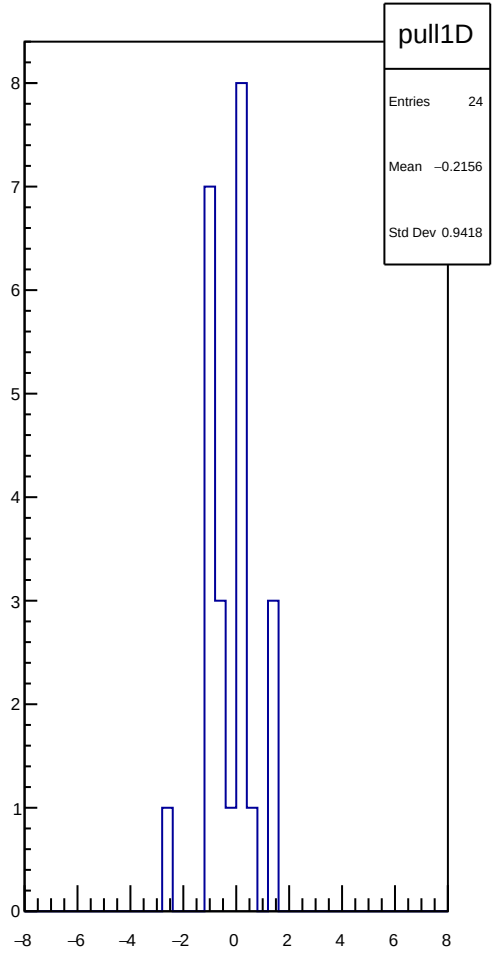
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

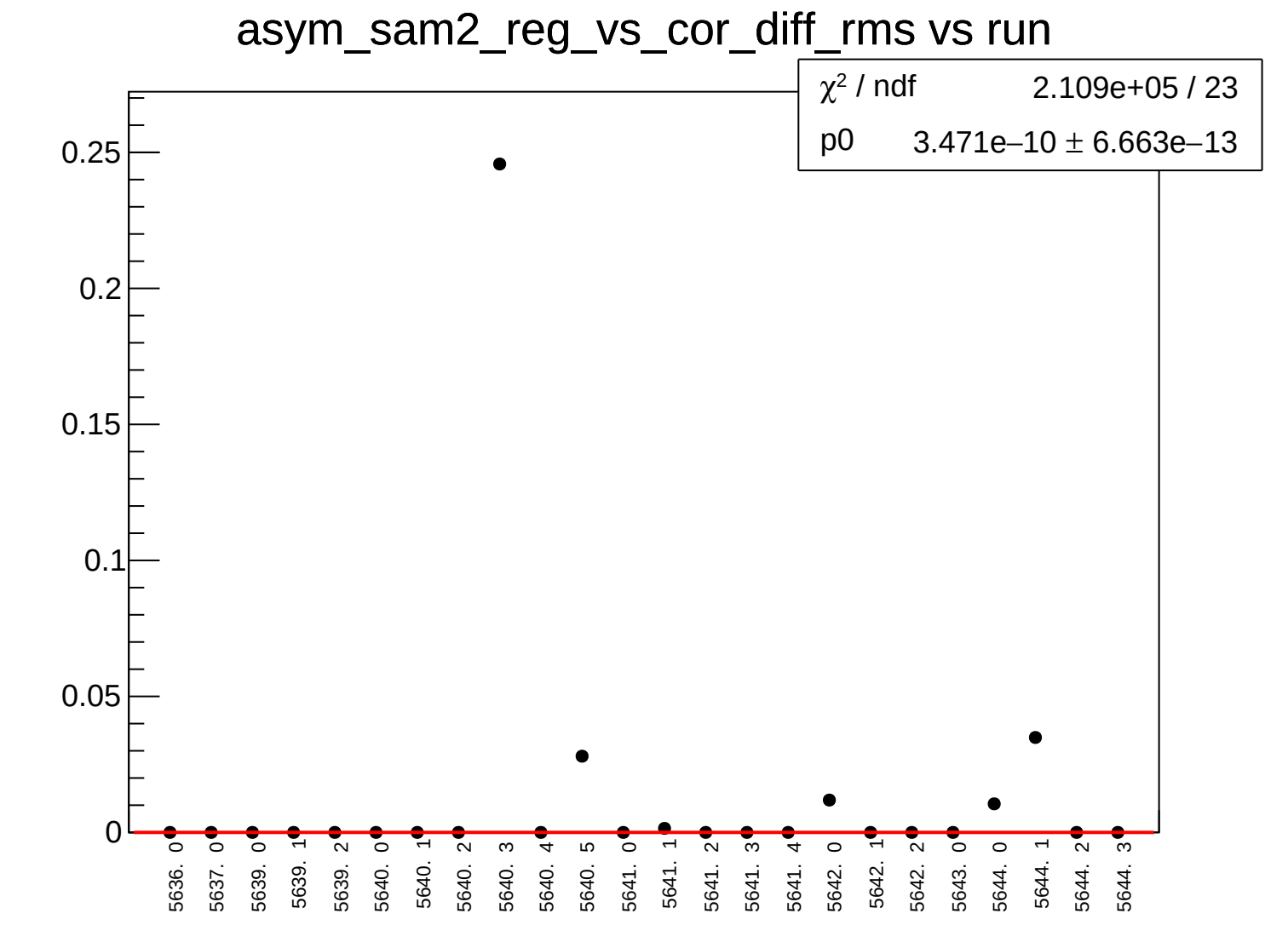

asym_sam2_mean vs run
×10^3
χ^2 / ndf 28.53 / 23
p0 4285 ± 9901
150
100
50
0
−50
−100
−150
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 13.6
Std Dev 21.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

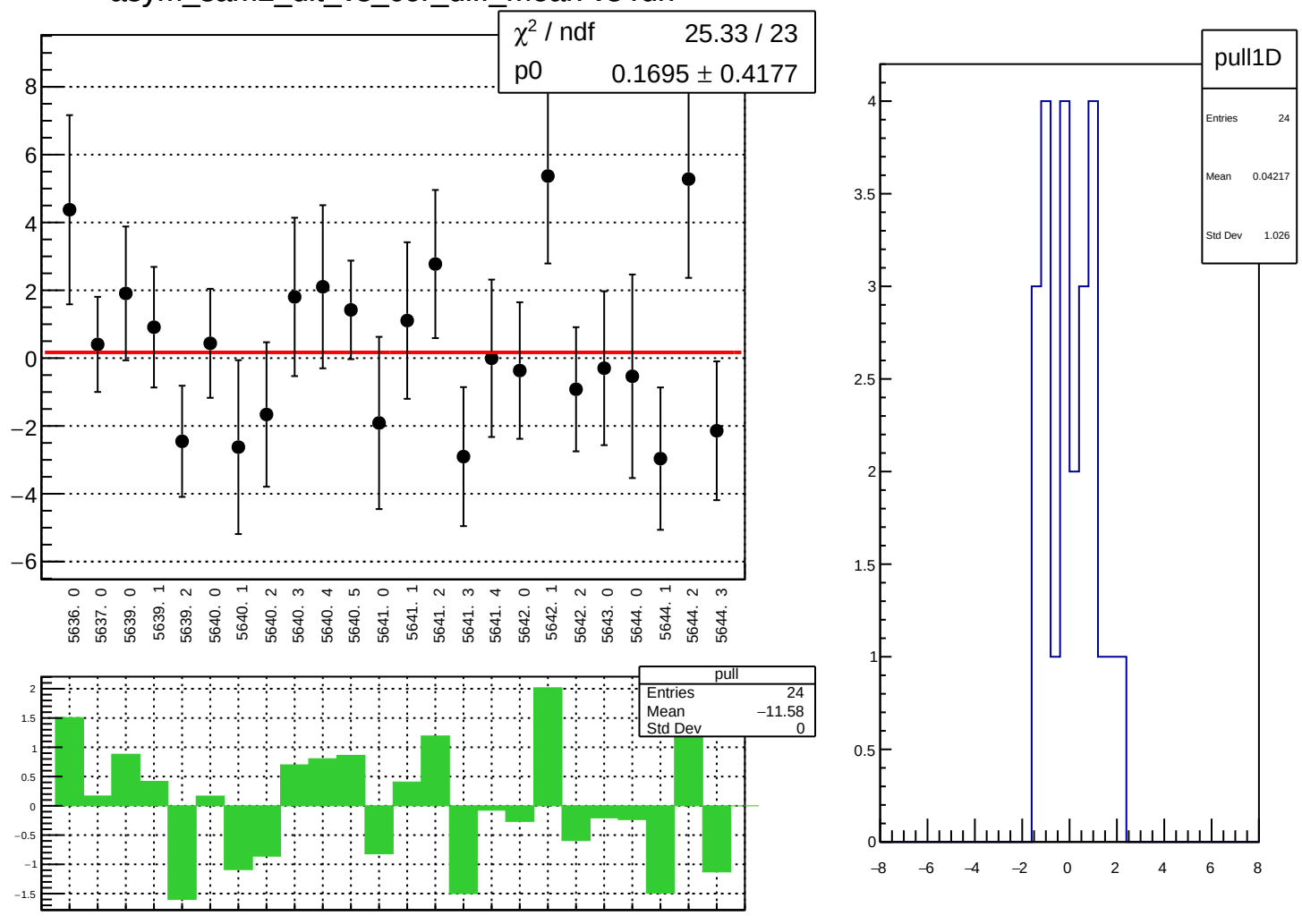

pull1D
Entries 24
Mean −0.0456
Std Dev 1.089
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

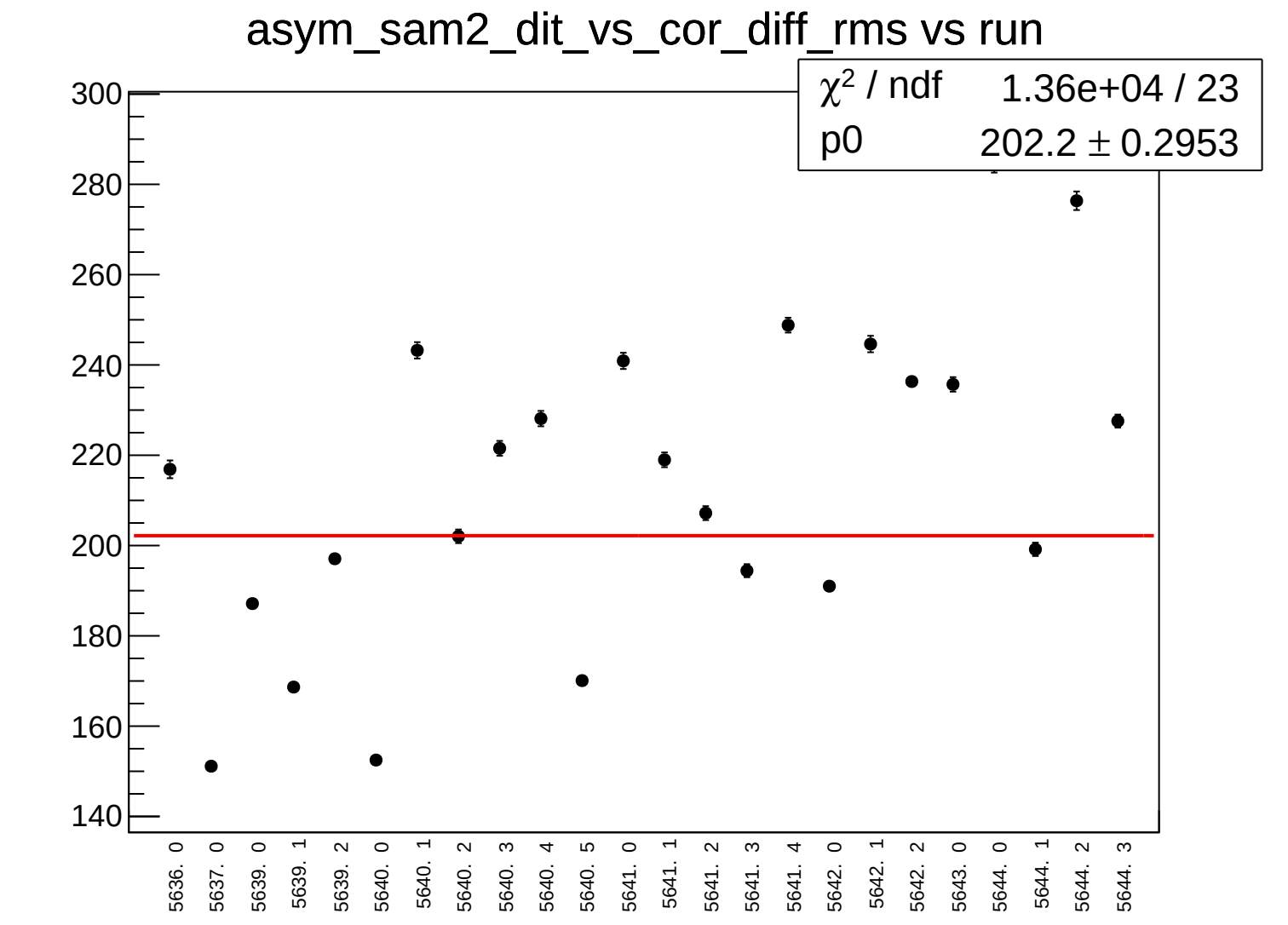

asym_sam2_rms vs run
χ² / ndf 1252 / 23
p0 4855 ± 7.001
5400
5200
5000
4800
4600
4400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

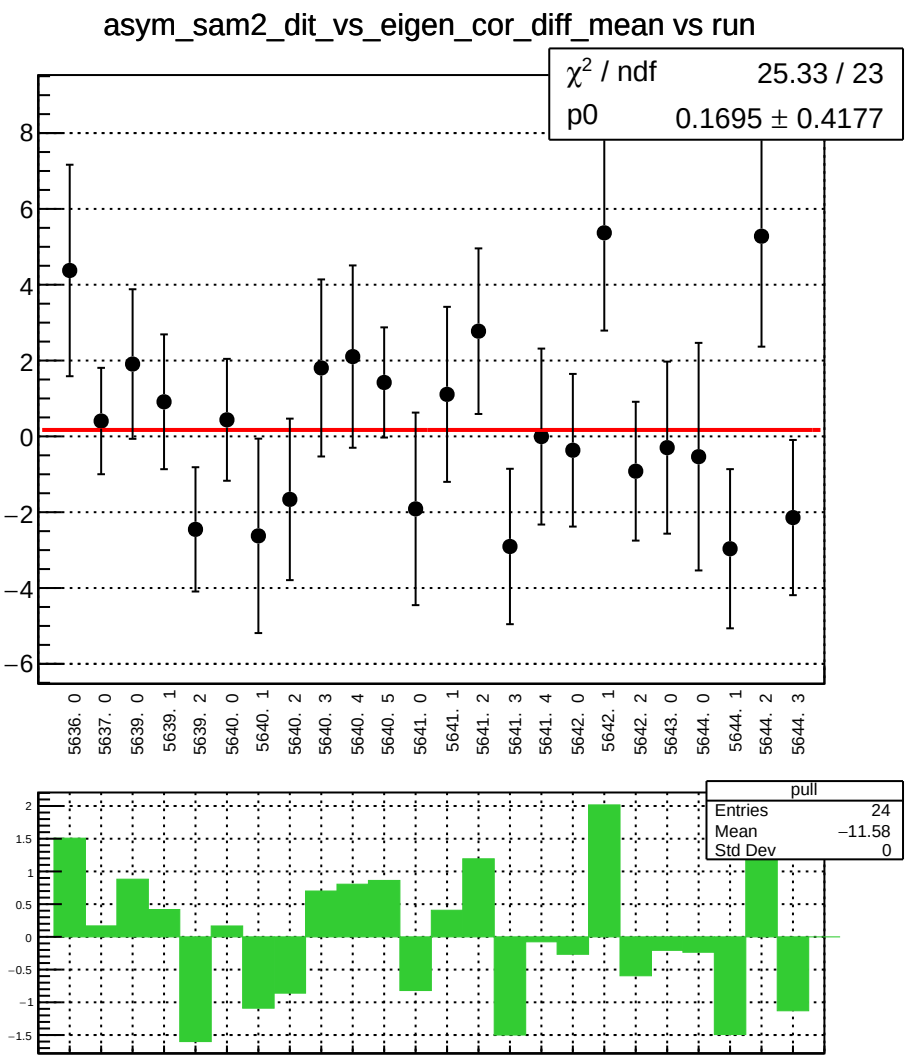

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 22.4 / 23
p0 −7.064e−13 ± 9.423e−13
0.003
0.002
0.001
0
−0.001
−0.002
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 22.66
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

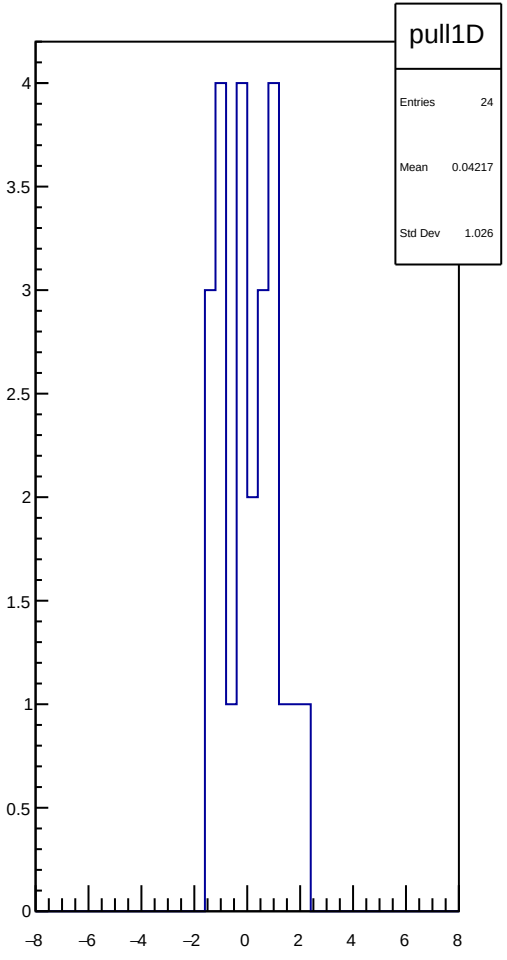

pull1D
Entries 24
Mean −0.2156
Std Dev 0.9418
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

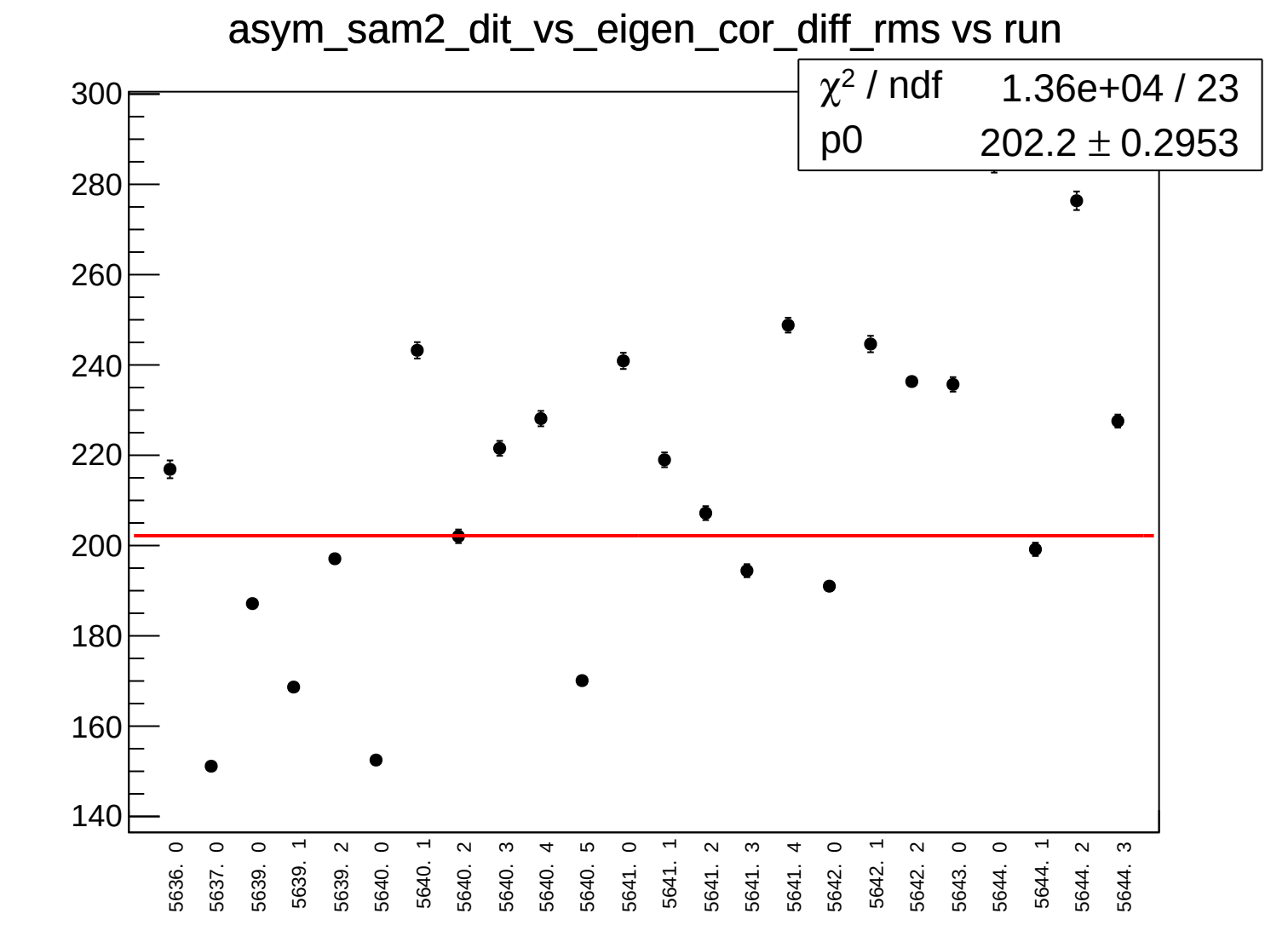

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 2.109e+05 / 23
p0 3.471e−10 ± 6.663e−13
0.25
0.2
0.15
0.1
0.05
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

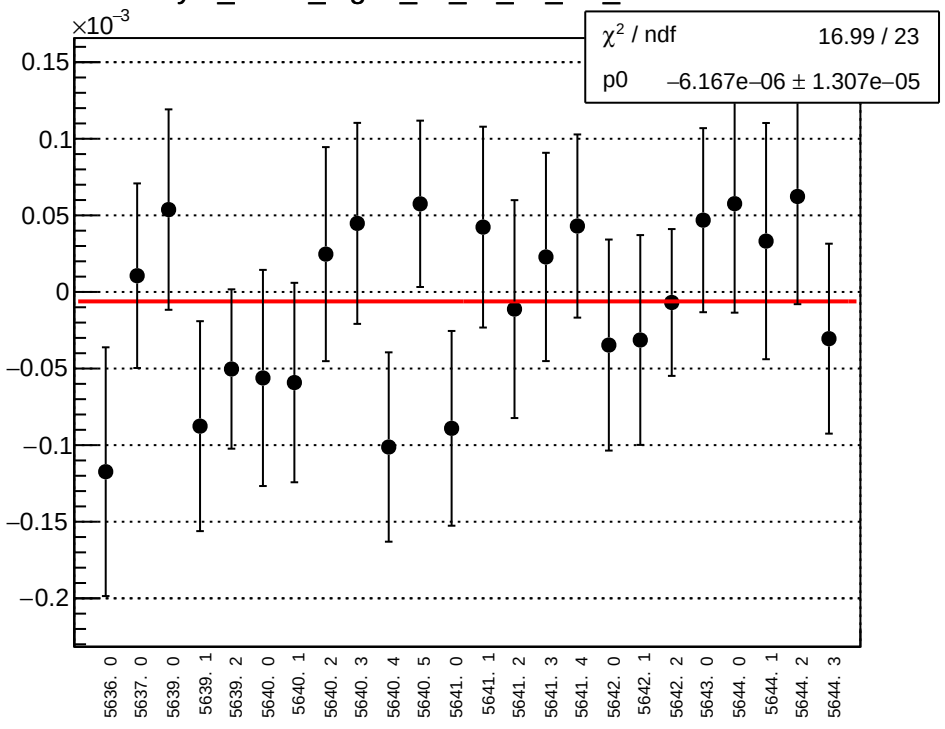

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 25.33 / 23
p0 0.1695 ± 0.4177
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −11.58
Std Dev 0
pull1D
Entries 24
Mean 0.04217
Std Dev 1.026

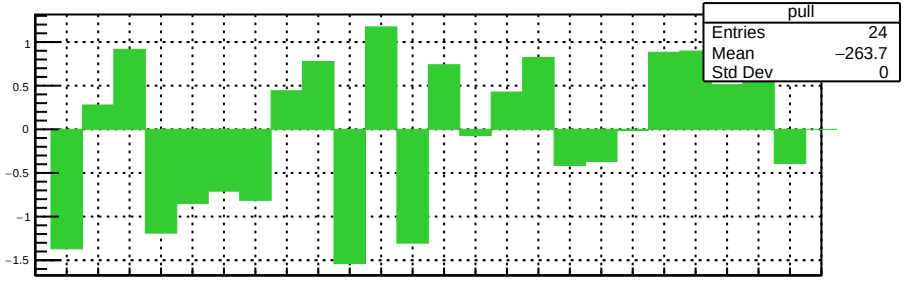

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.36e+04 / 23
p0 202.2 ± 0.2953
300
280
260
240
220
200
180
160
140
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

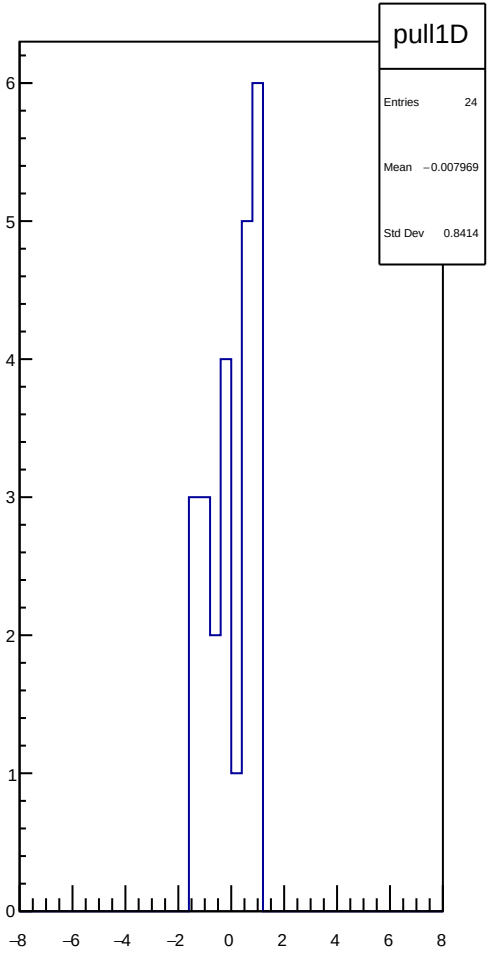

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.33 / 23
p0 0.1695 ± 0.4177
8
6
4
2
0
−2
−4
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −11.58
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

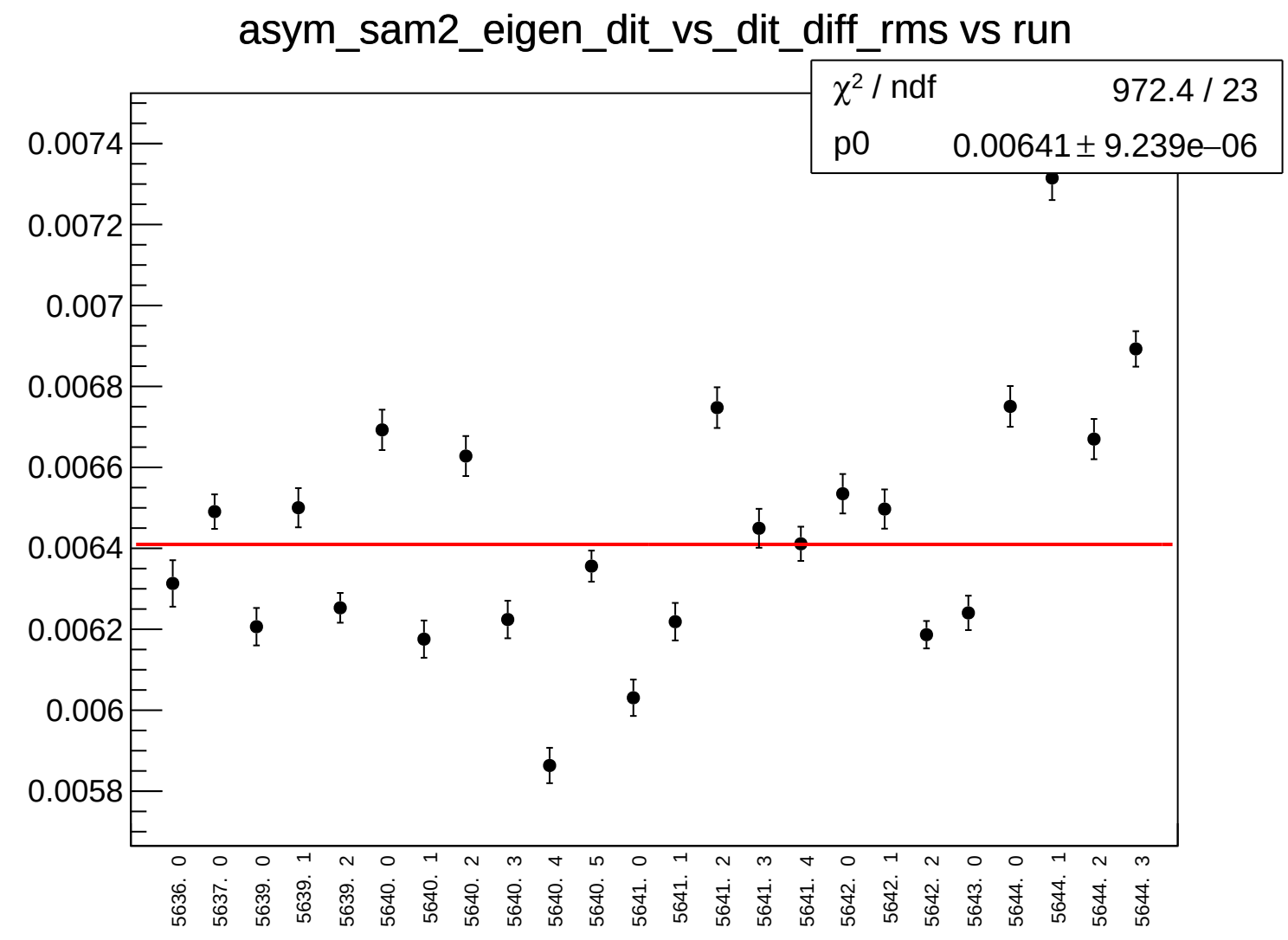

pull1D
Entries 24
Mean 0.04217
Std Dev 1.026
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

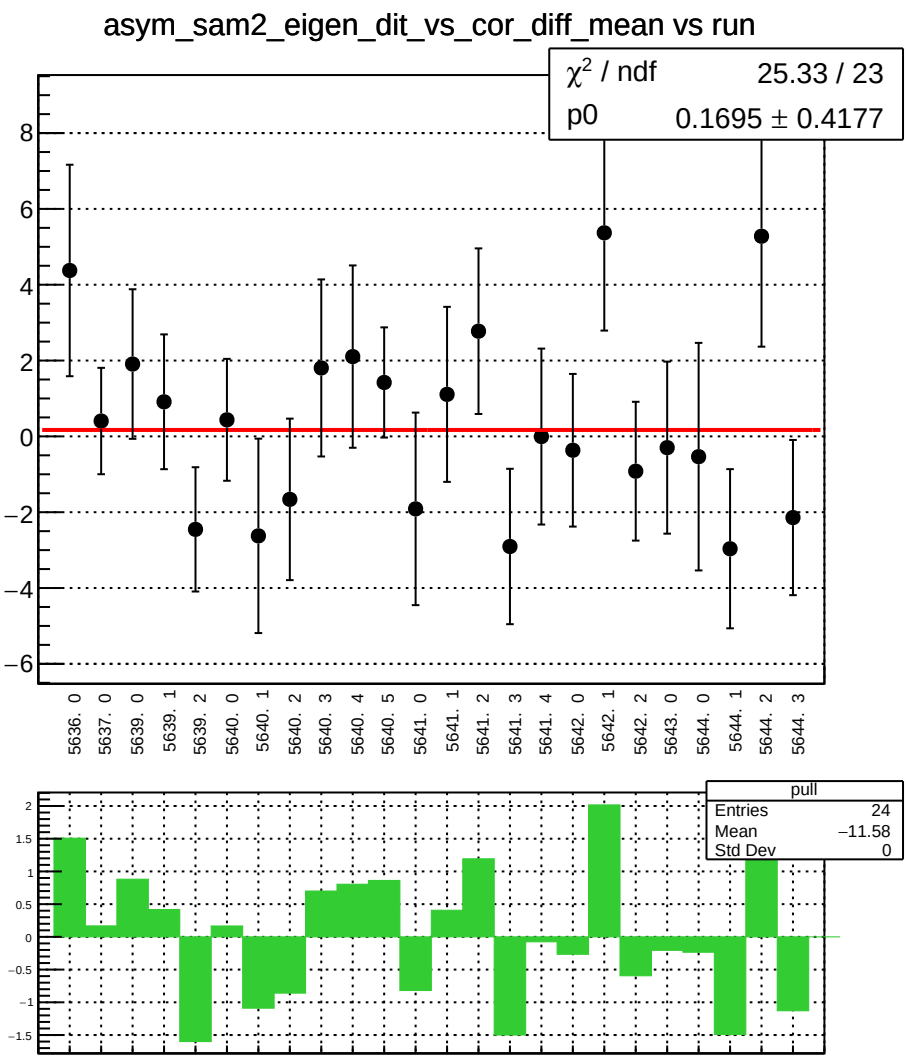

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.36e+04 / 23
p0 202.2 ± 0.2953
300
280
260
240
220
200
180
160
140
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

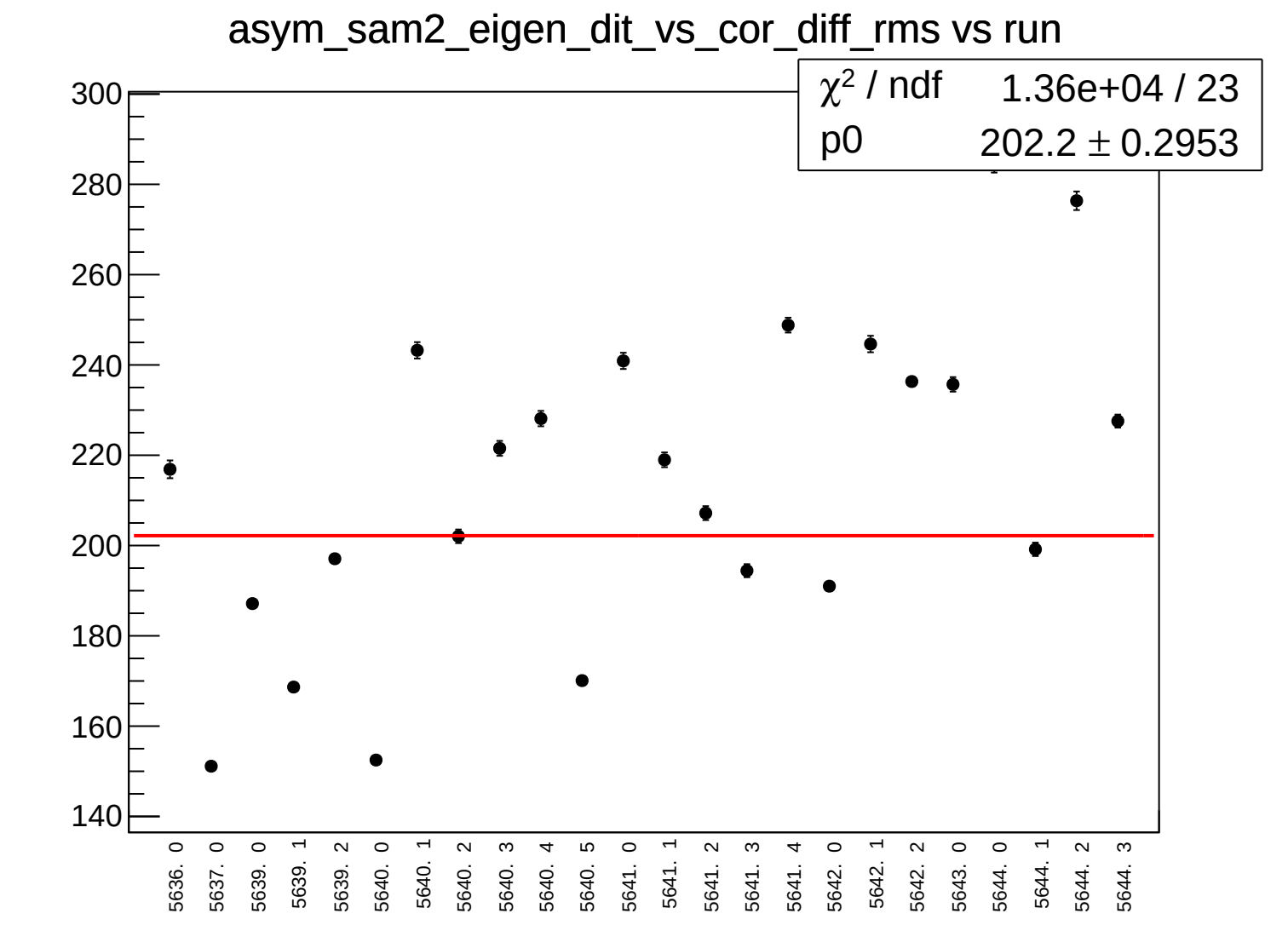

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 16.99 / 23
p0 −6.167e−06 ± 1.307e−05
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

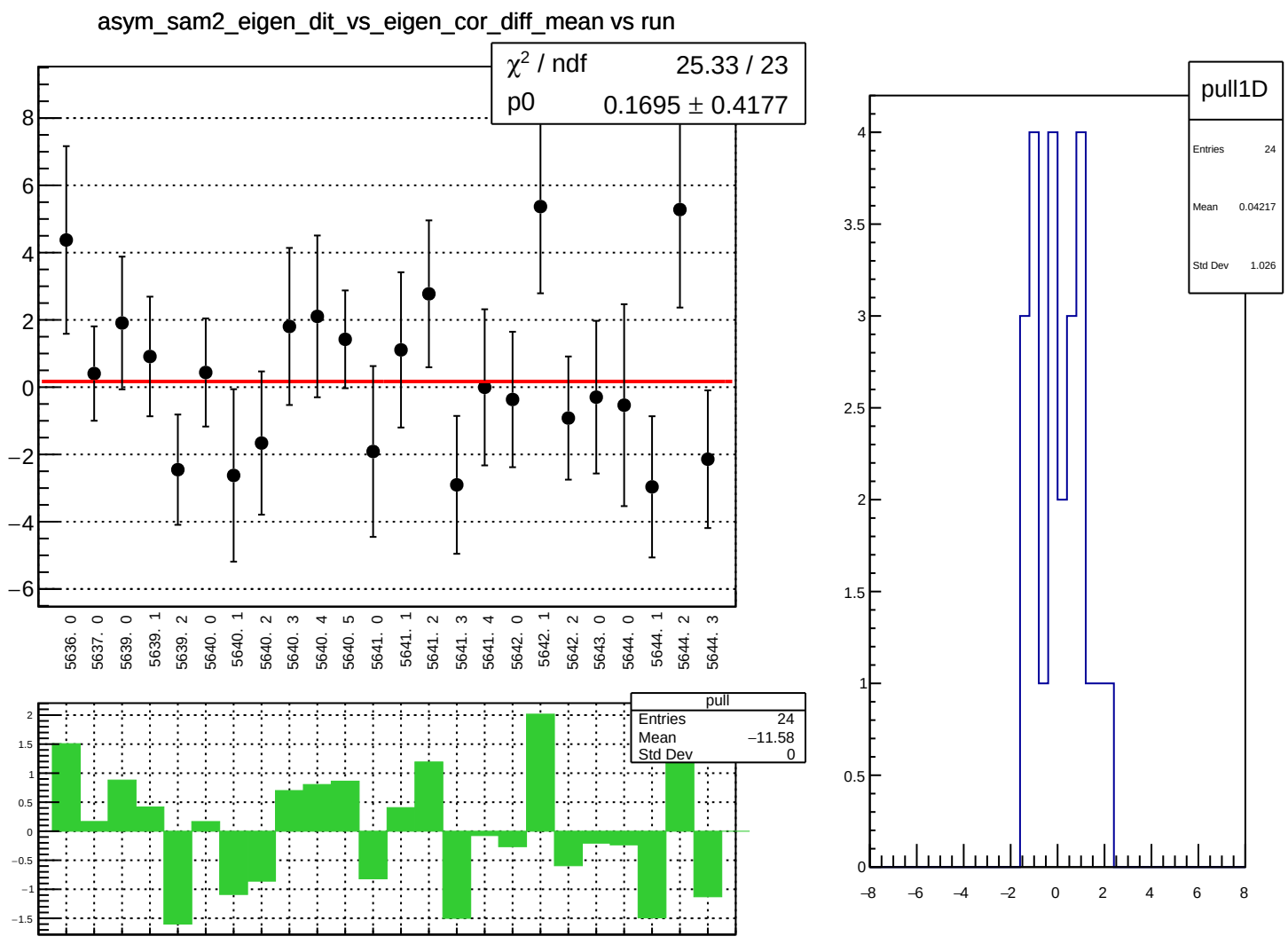

pull
Entries 24
Mean −263.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

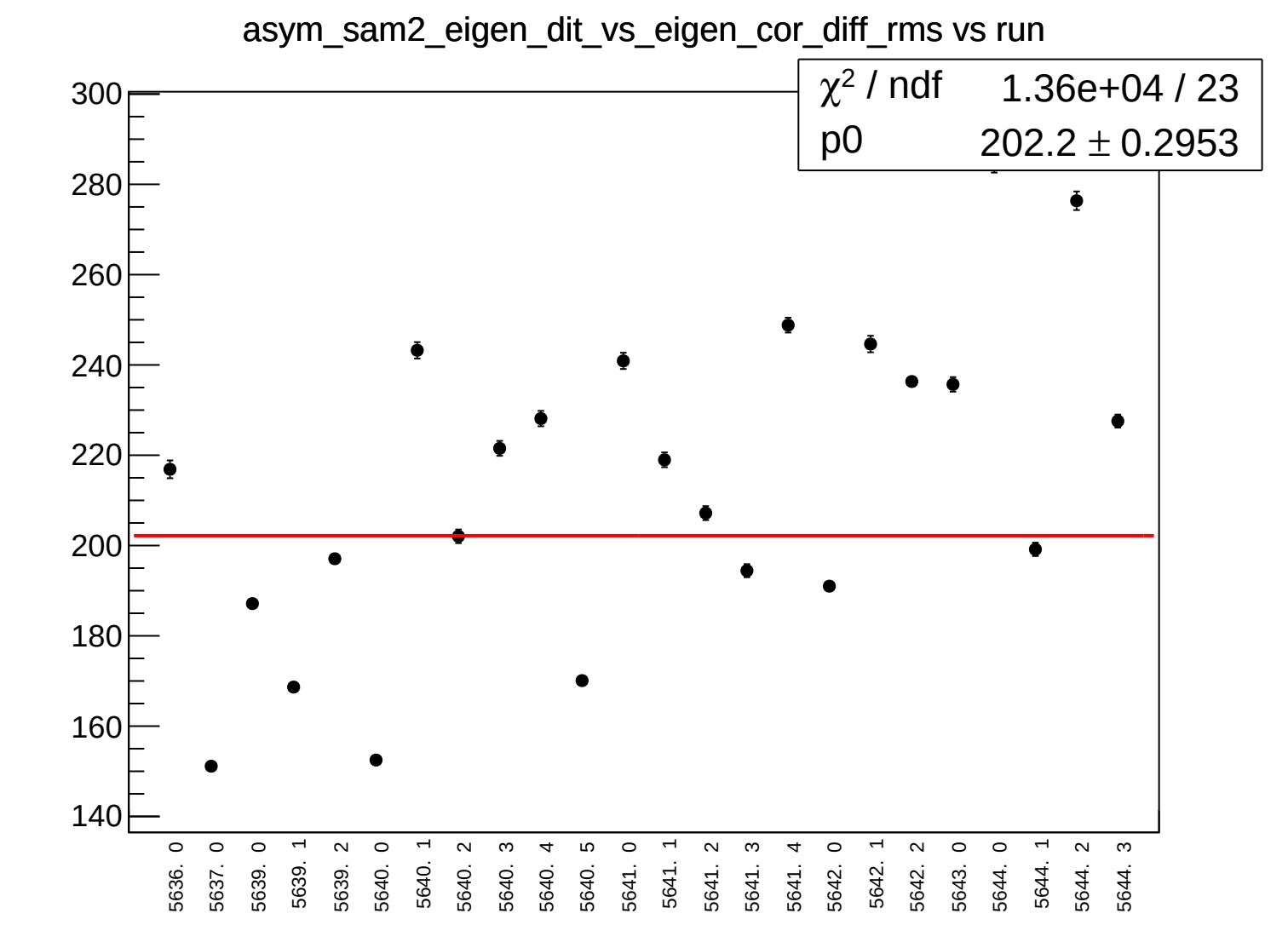

pull1D
Entries 24
Mean −0.007969
Std Dev 0.8414
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

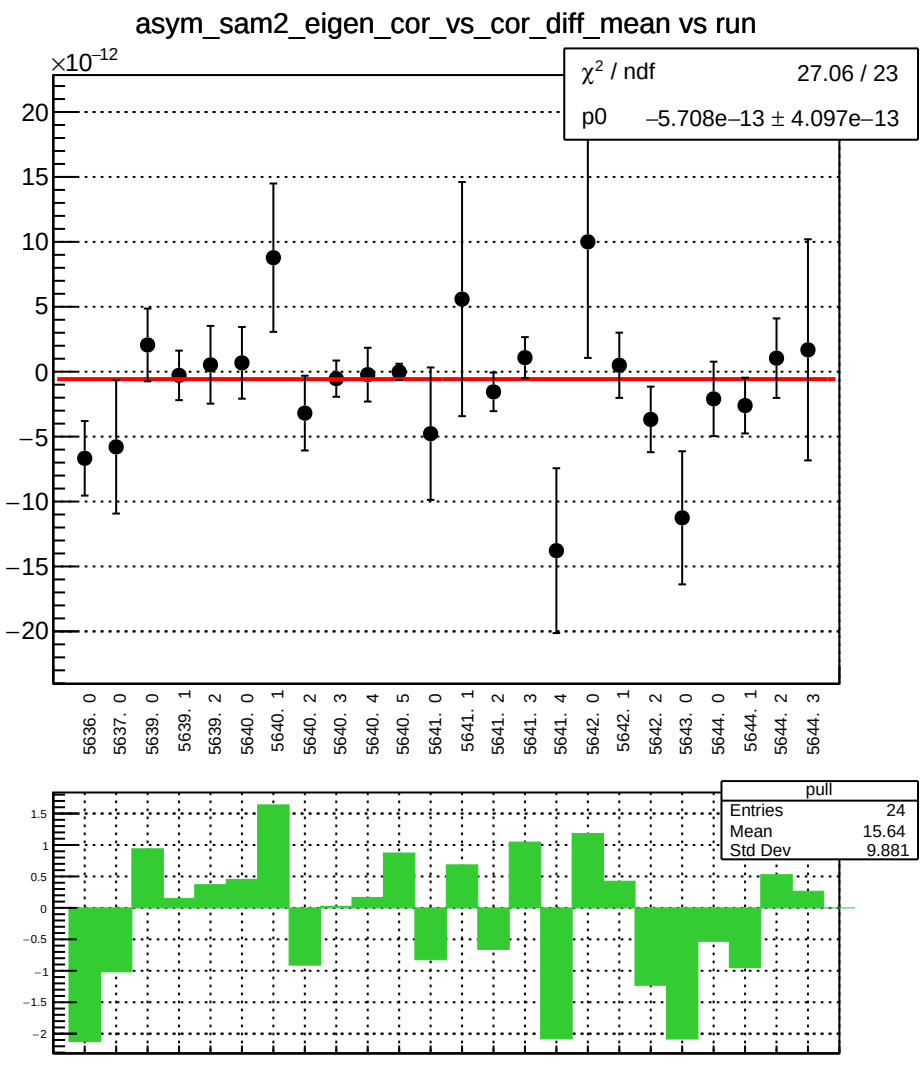

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 972.4 / 23
p0 0.00641 ± 9.239e–06
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

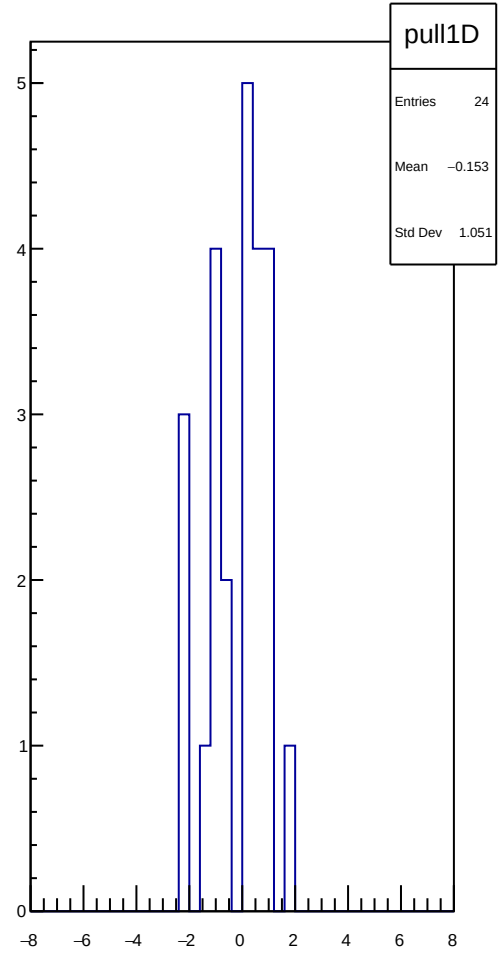

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 25.33 / 23
p0 0.1695 ± 0.4177
8
6
4
2
0
−2
−4
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −11.58
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.04217
Std Dev 1.026
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

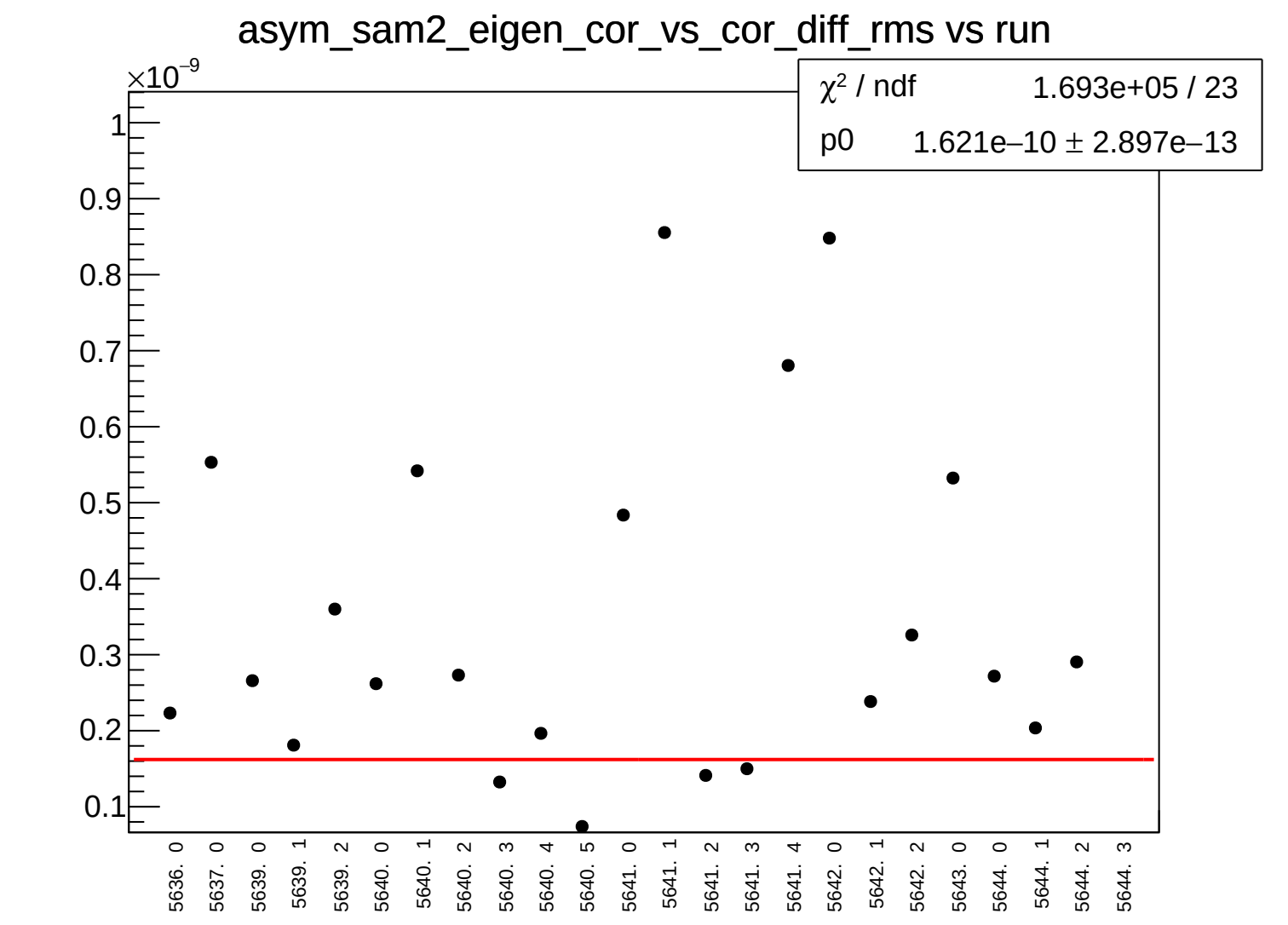

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.36e+04 / 23
p0 202.2 ± 0.2953
300
280
260
240
220
200
180
160
140
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

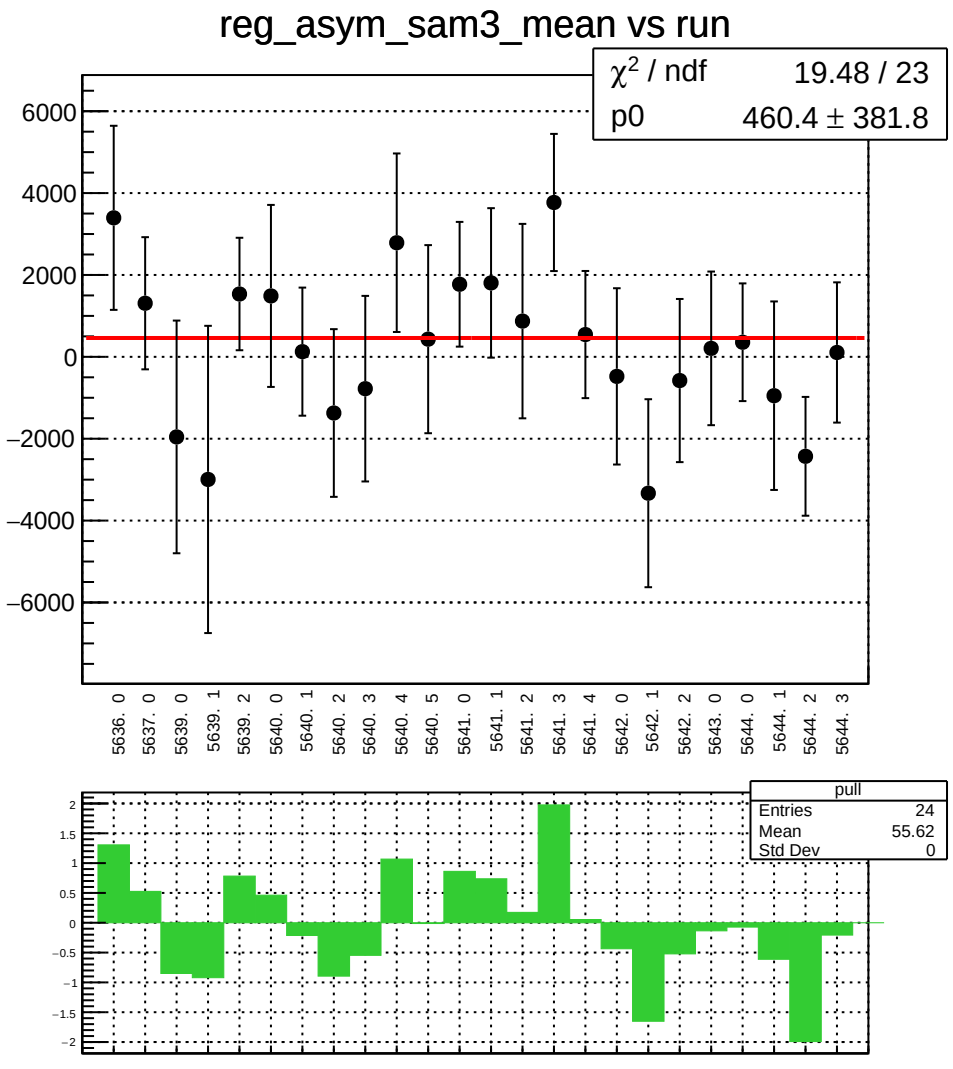

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.33 / 23
p0 0.1695 ± 0.4177
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −11.58
Std Dev 0
pull1D
Entries 24
Mean 0.04217
Std Dev 1.026

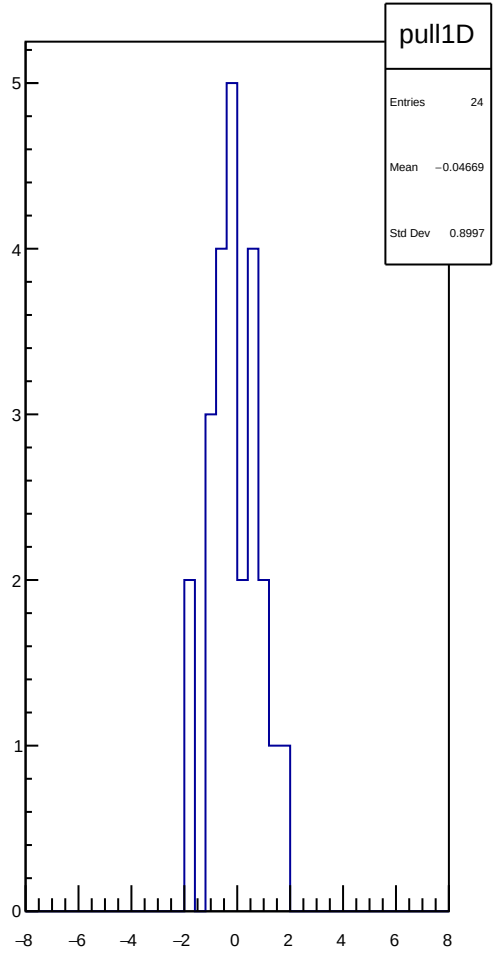

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.36e+04 / 23
p0 202.2 ± 0.2953
300
280
260
240
220
200
180
160
140
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

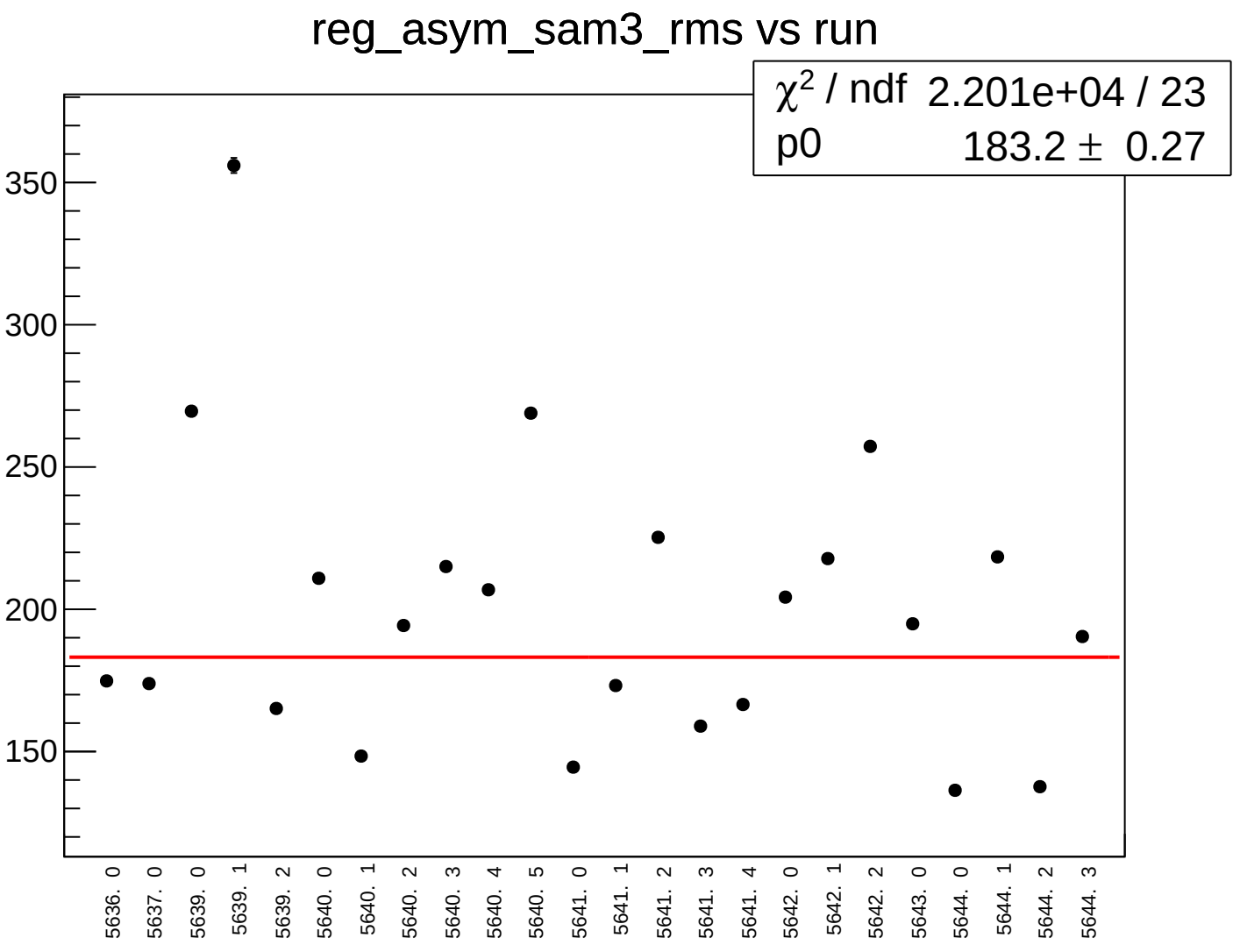

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 27.06 / 23
p0 −5.708e−13 ± 4.097e−13
20
15
10
5
0
−5
−10
−15
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 15.64
Std Dev 9.881
1.5
1
0.5
0
−0.5
−1
−1.5
−2

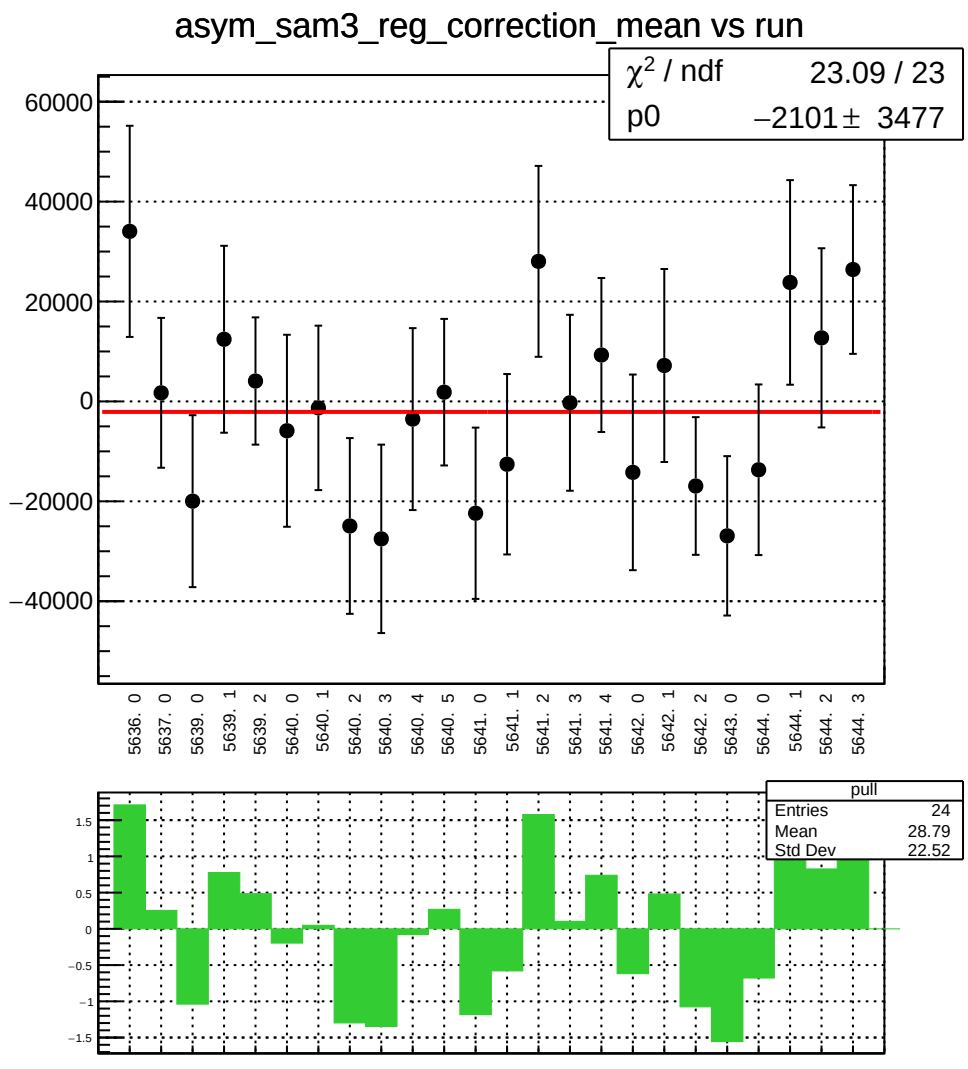

pull1D
Entries 24
Mean −0.153
Std Dev 1.051
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

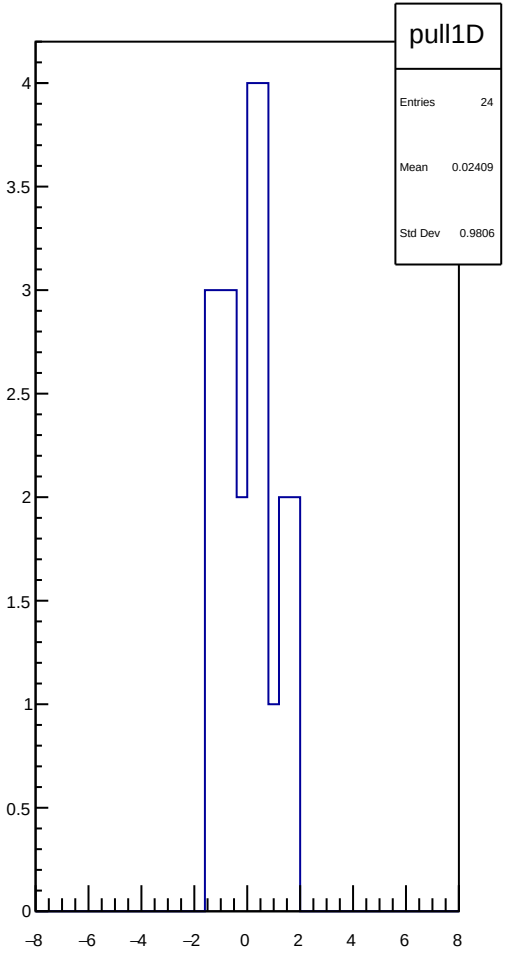

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.693e+05 / 23
p0 1.621e−10 ± 2.897e−13
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

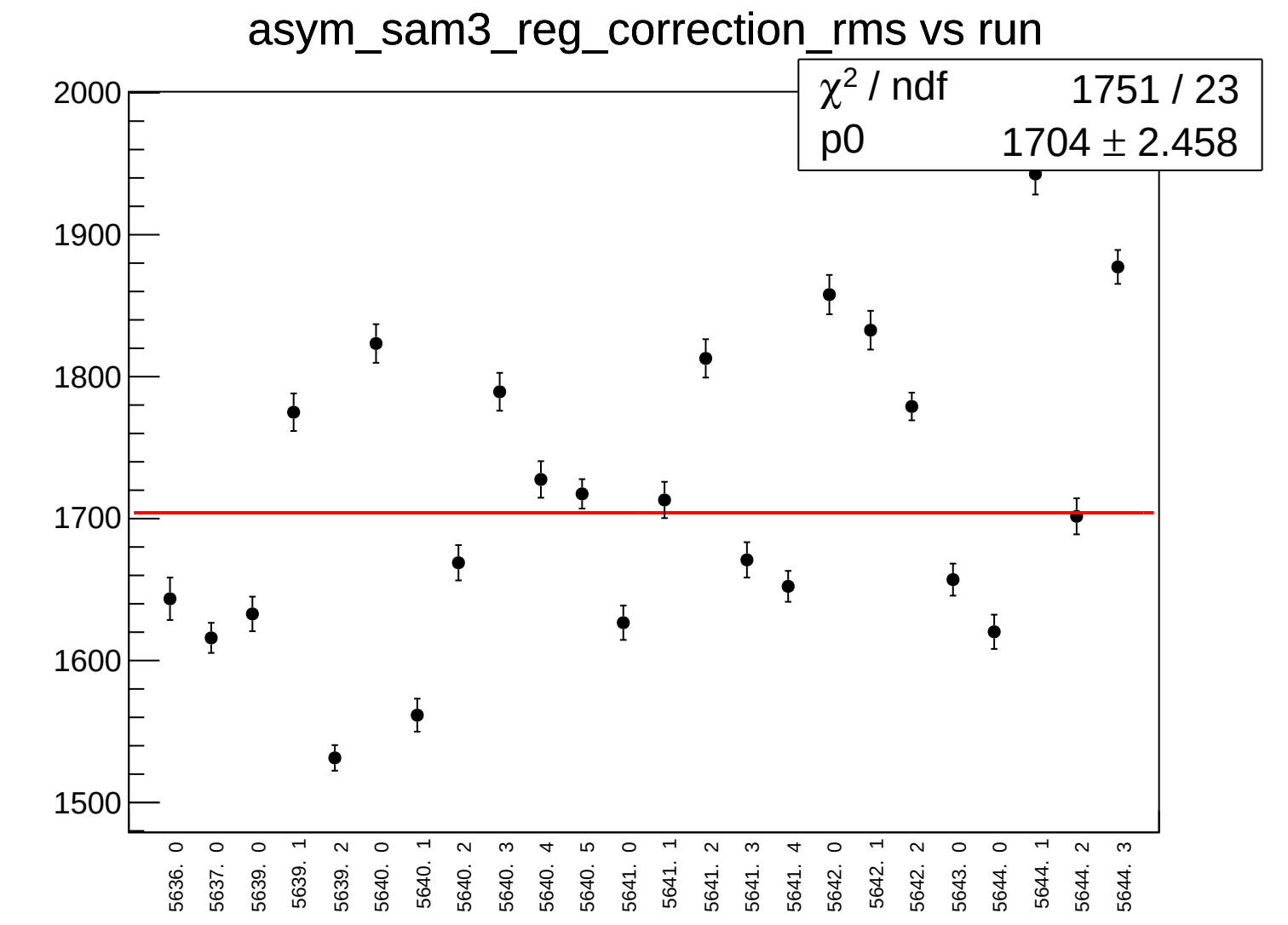

reg_asym_sam3_mean vs run
χ² / ndf 19.48 / 23
p0 460.4 ± 381.8
6000
4000
2000
0
−2000
−4000
−6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 55.62
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

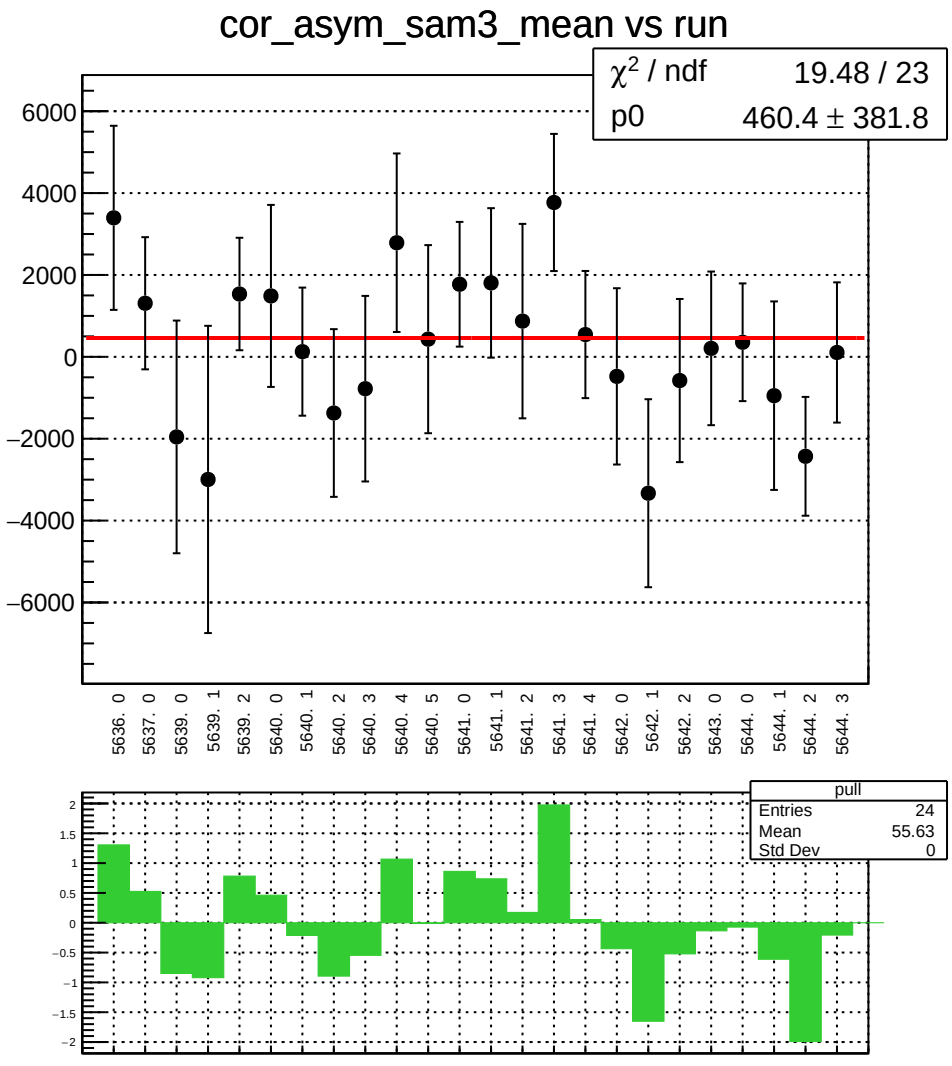

pull1D
Entries 24
Mean −0.04669
Std Dev 0.8997
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

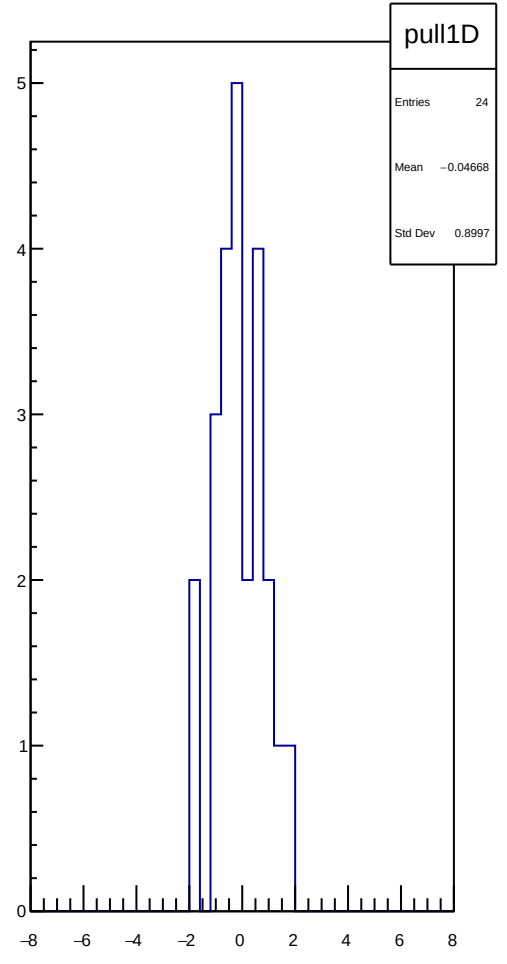

reg_asym_sam3_rms vs run
χ² / ndf 2.201e+04 / 23
p0 183.2 ± 0.27
350
300
250
200
150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

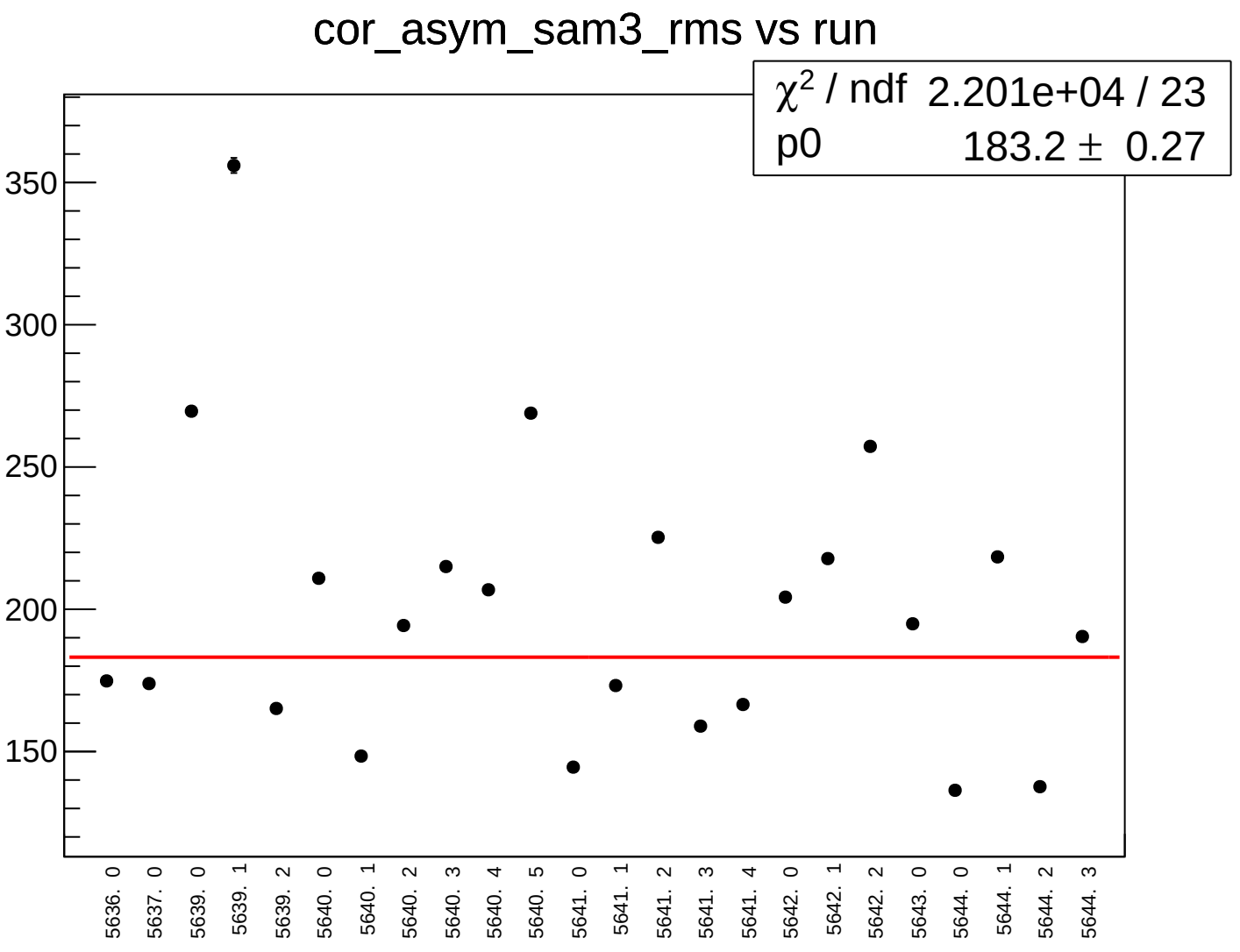

asym_sam3_reg_correction_mean vs run
χ² / ndf 23.09 / 23
p0 −2101 ± 3477
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 28.79
Std Dev 22.52
1.5
1
0.5
0
−0.5
−1
−1.5

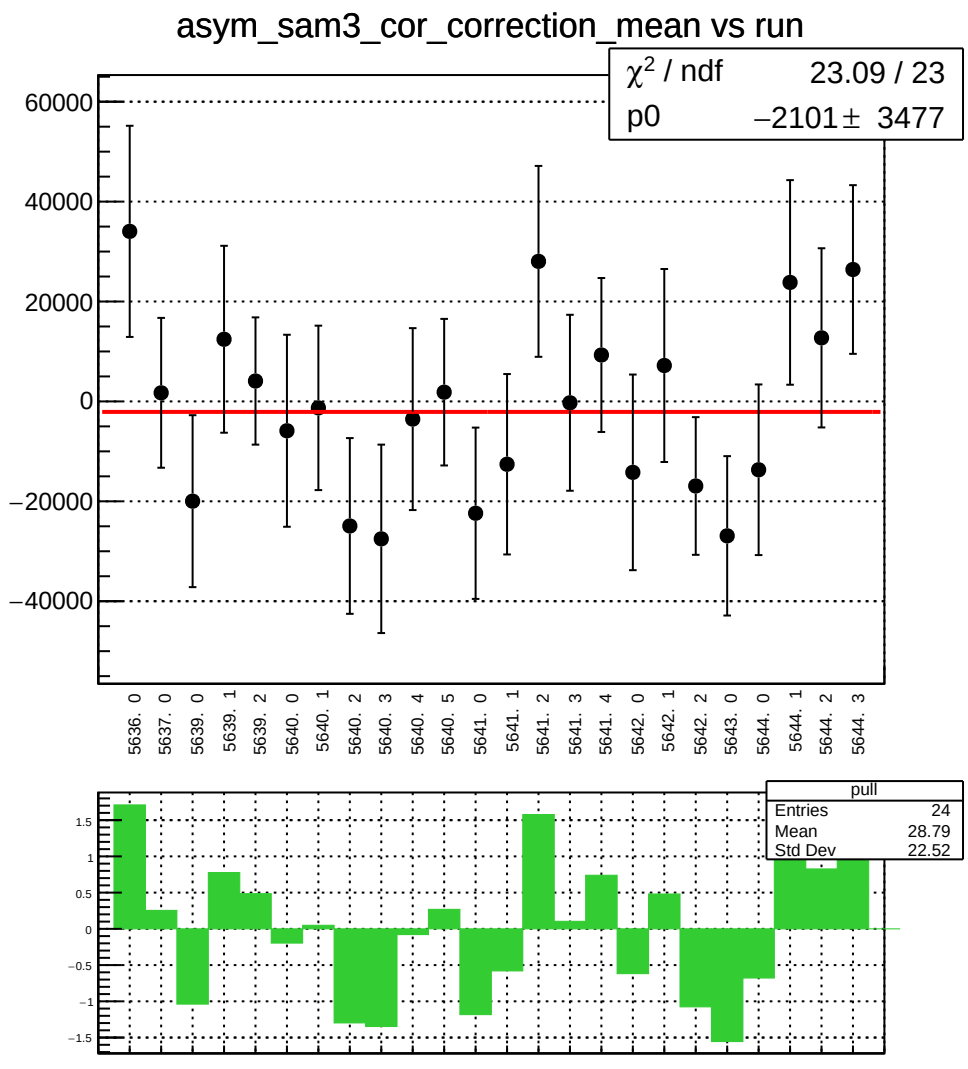

pull1D
Entries 24
Mean 0.02409
Std Dev 0.9806
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

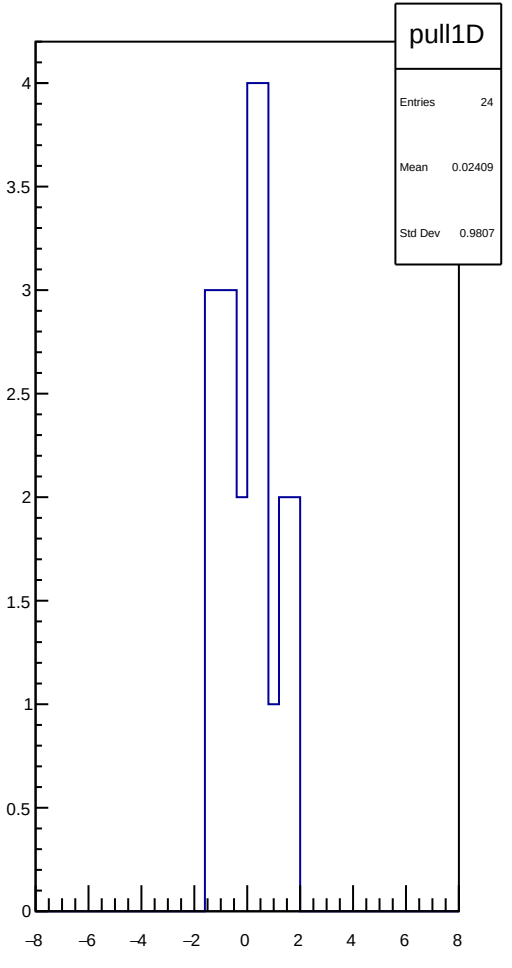

asym_sam3_reg_correction_rms vs run
χ² / ndf 1751 / 23
p0 1704 ± 2.458
2000
1900
1800
1700
1600
1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

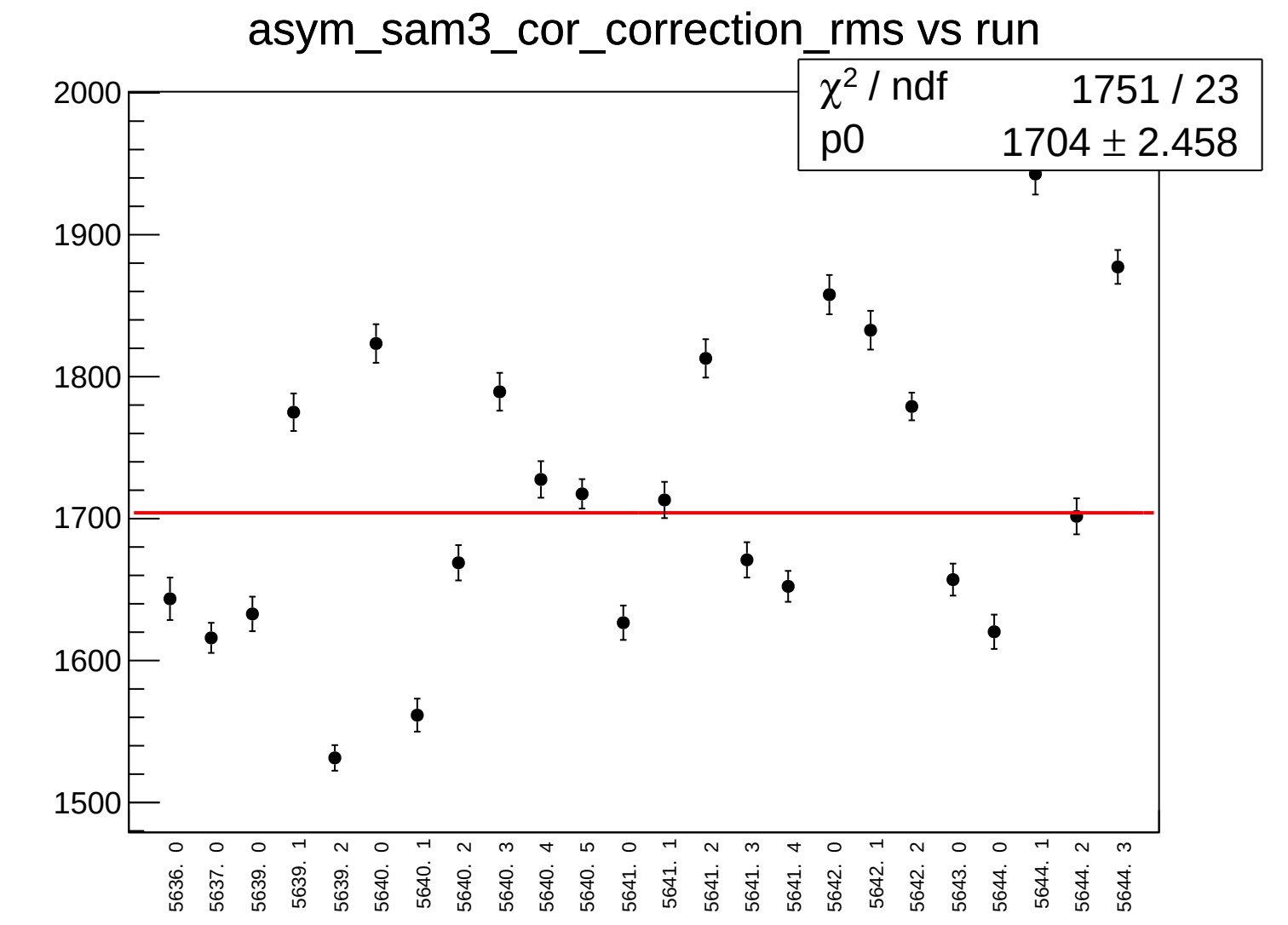

cor_asym_sam3_mean vs run
χ² / ndf 19.48 / 23
p0 460.4 ± 381.8
6000
4000
2000
0
−2000
−4000
−6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 55.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

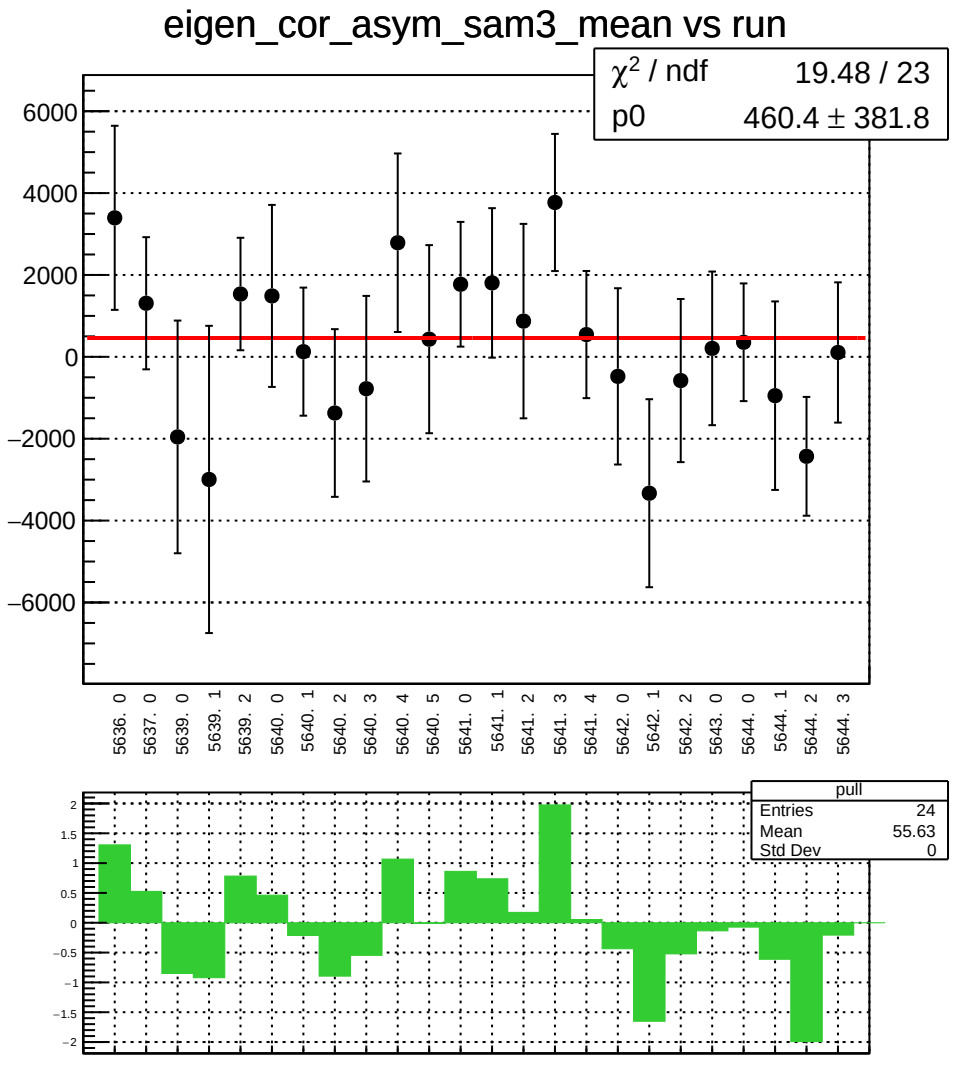

pull1D
Entries 24
Mean −0.04668
Std Dev 0.8997
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

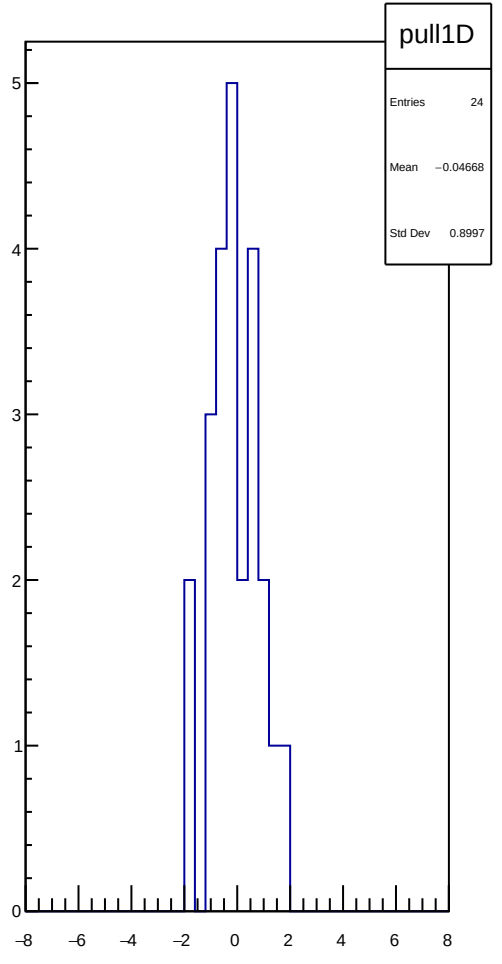

cor_asym_sam3_rms vs run
χ² / ndf 2.201e+04 / 23
p0 183.2 ± 0.27
350
300
250
200
150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

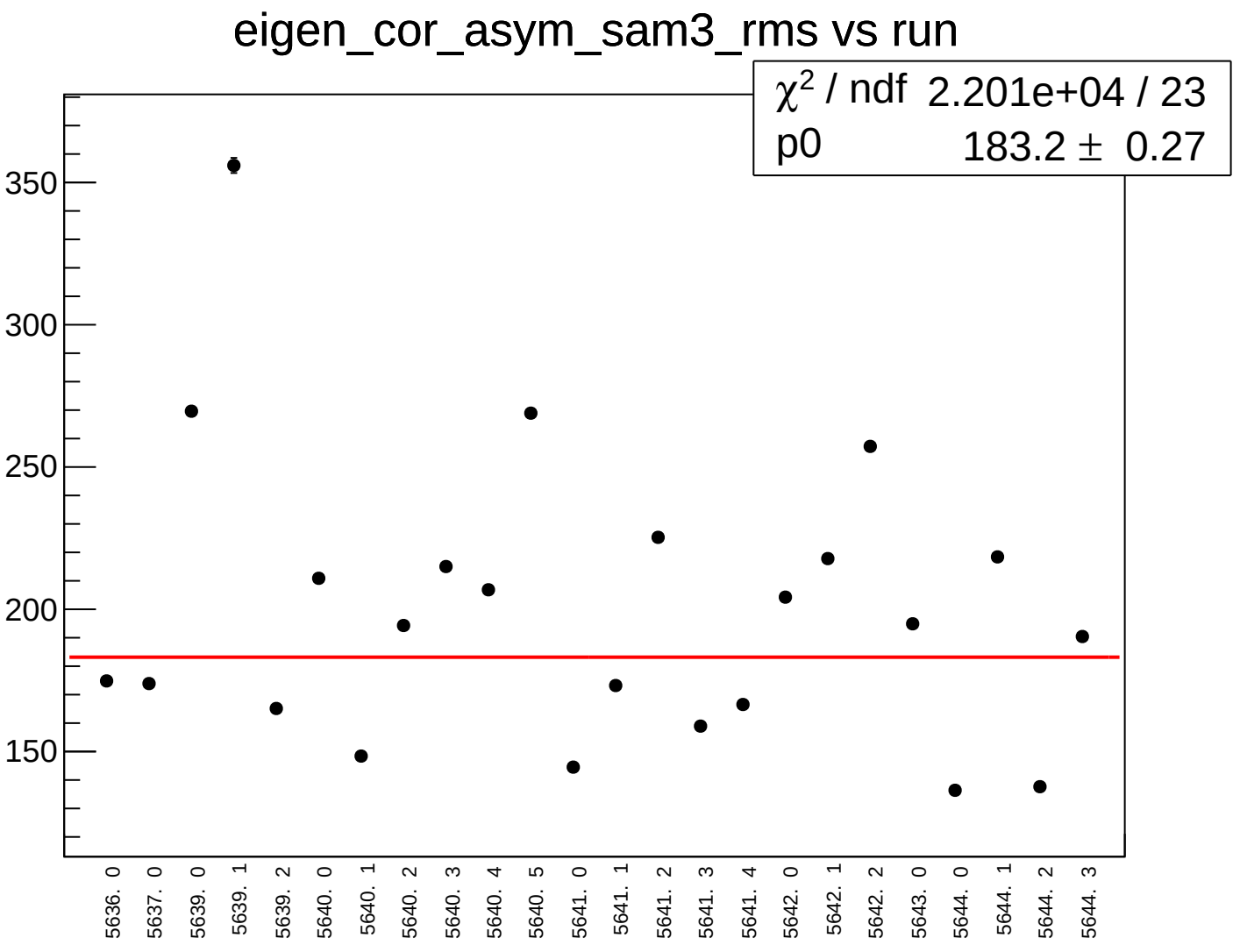

asym_sam3_cor_correction_mean vs run
χ² / ndf 23.09 / 23
p0 −2101 ± 3477
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 28.79
Std Dev 22.52
1.5
1
0.5
0
−0.5
−1
−1.5

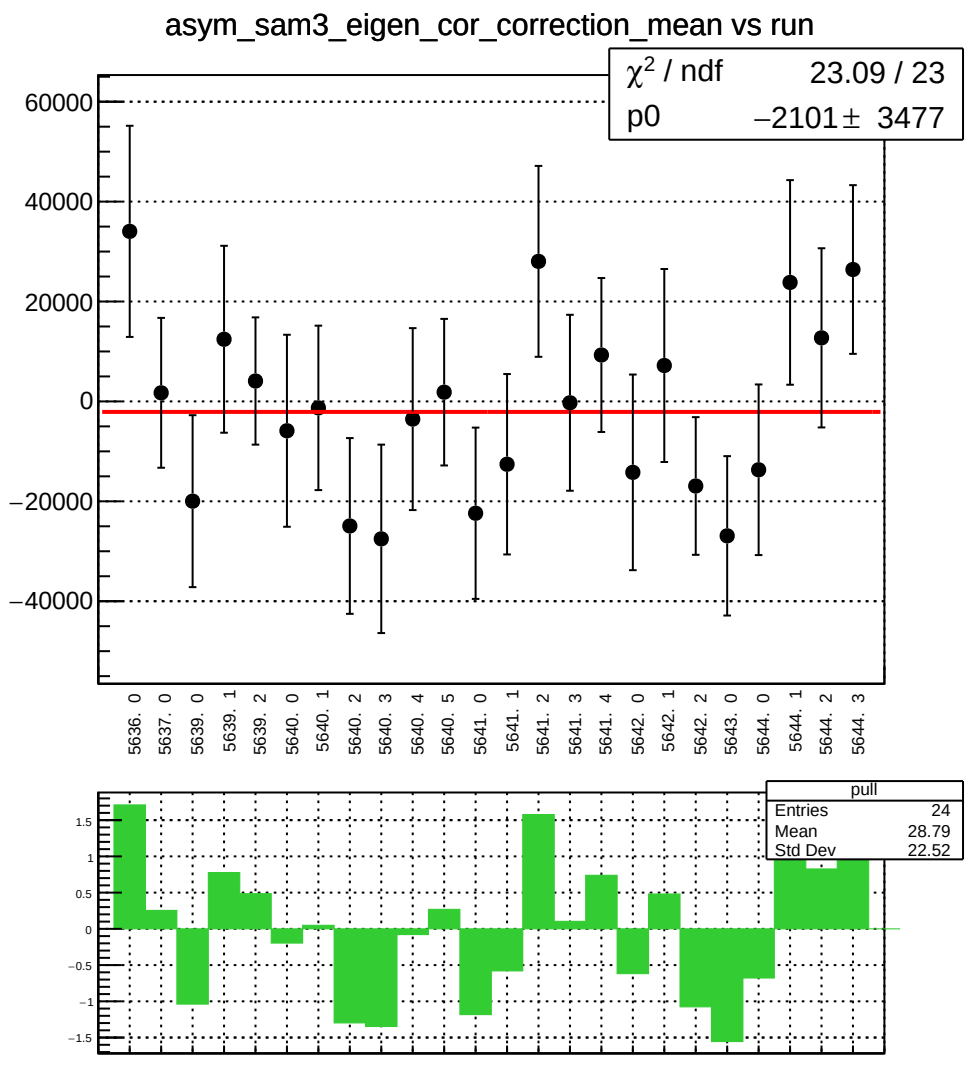

pull1D
Entries 24
Mean 0.02409
Std Dev 0.9807
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

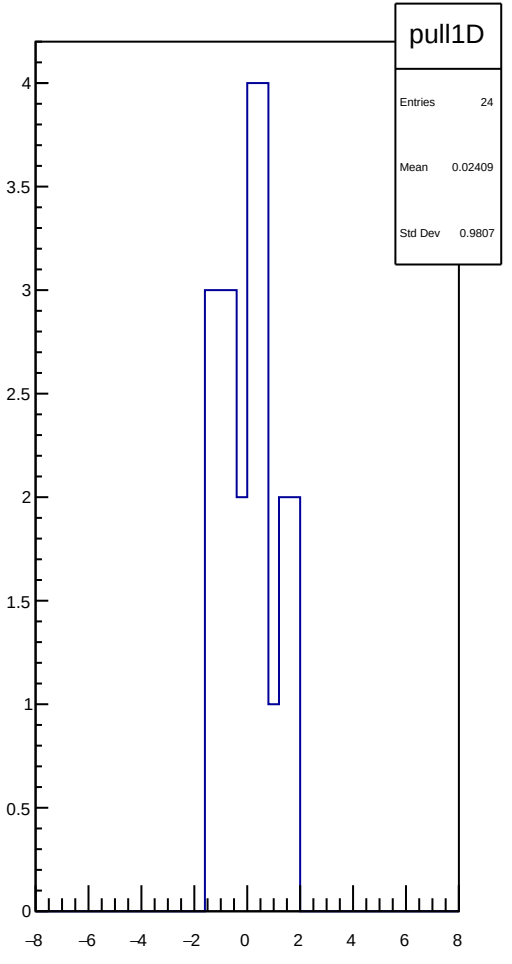

asym_sam3_cor_correction_rms vs run
χ² / ndf 1751 / 23
p0 1704 ± 2.458
2000
1900
1800
1700
1600
1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

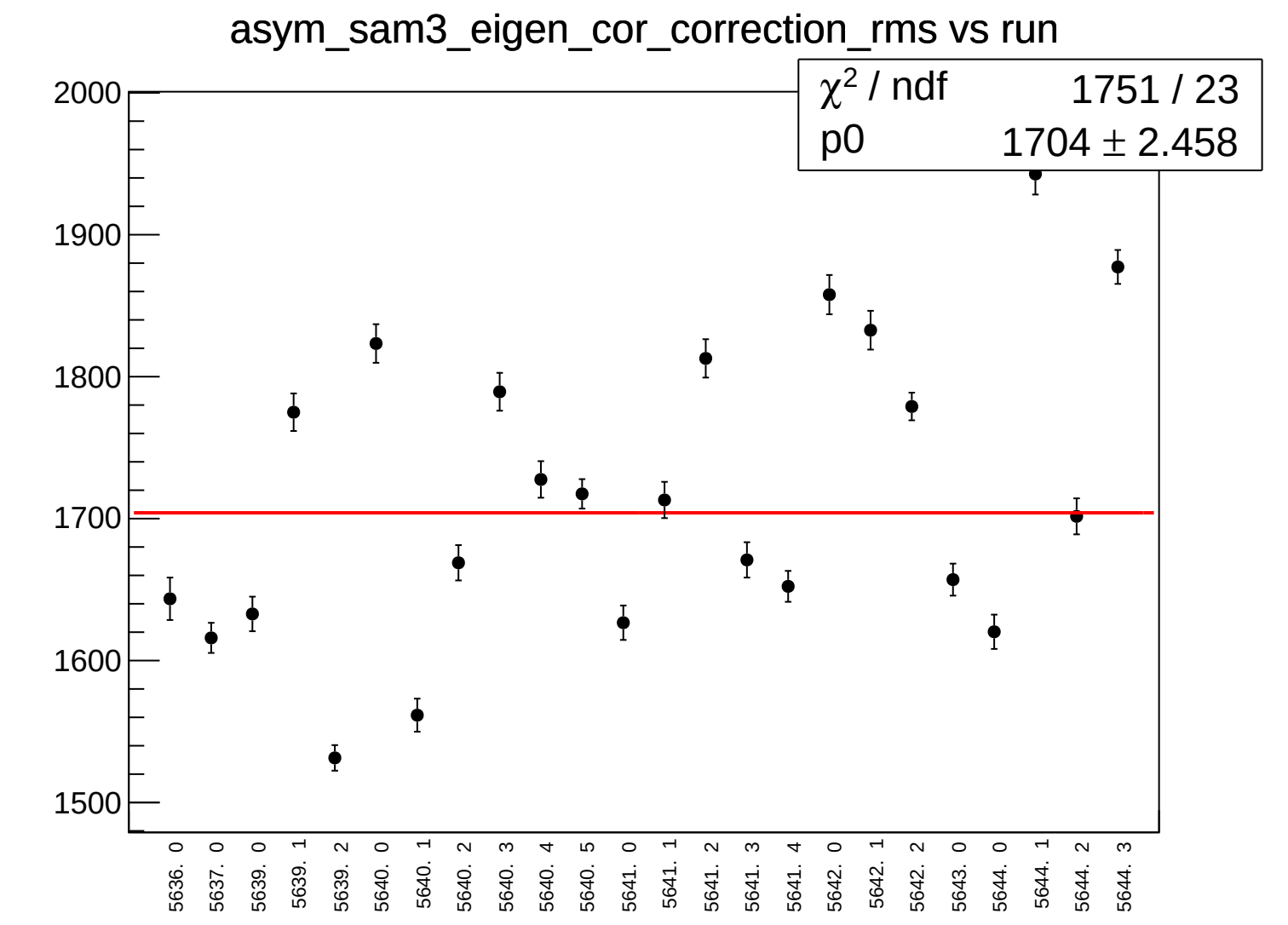

eigen_cor_asym_sam3_mean vs run
χ² / ndf 19.48 / 23
p0 460.4 ± 381.8
6000
4000
2000
0
−2000
−4000
−6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 55.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

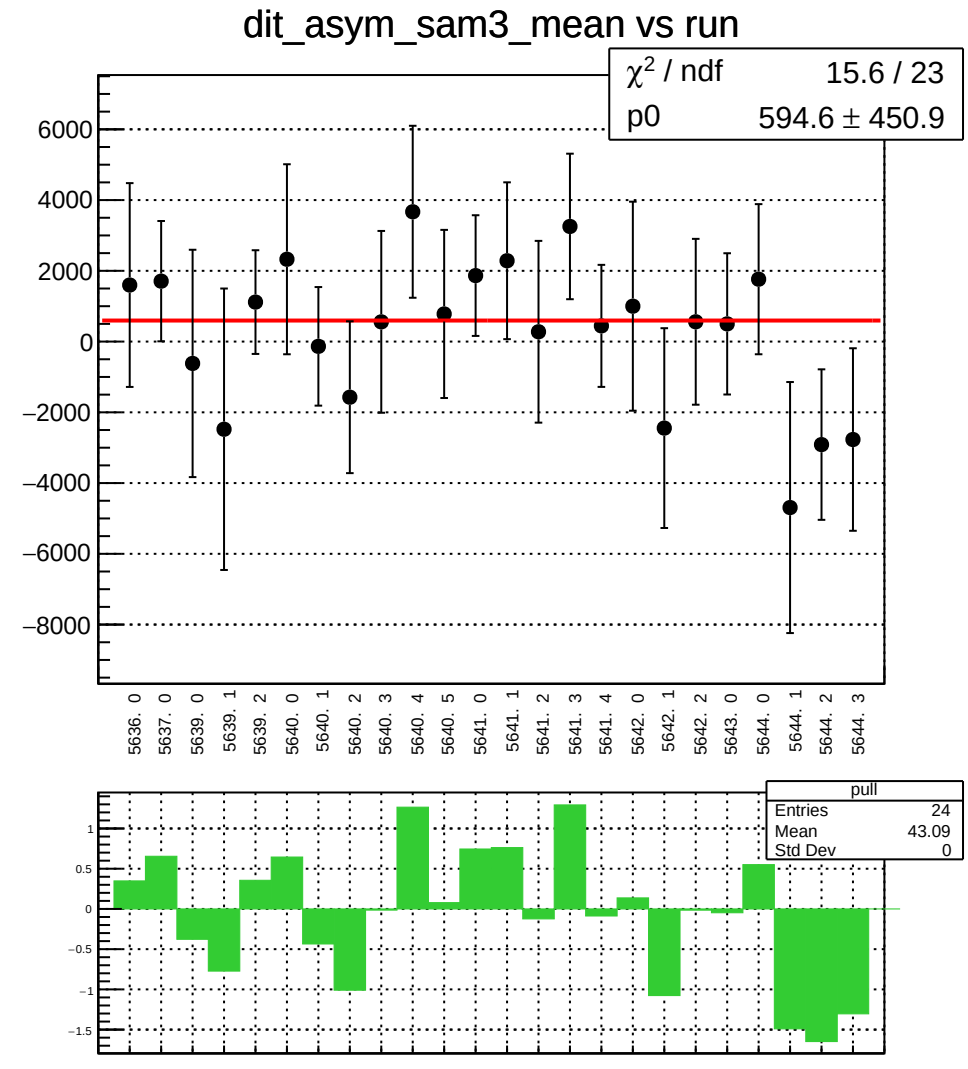

pull1D
Entries 24
Mean −0.04668
Std Dev 0.8997
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

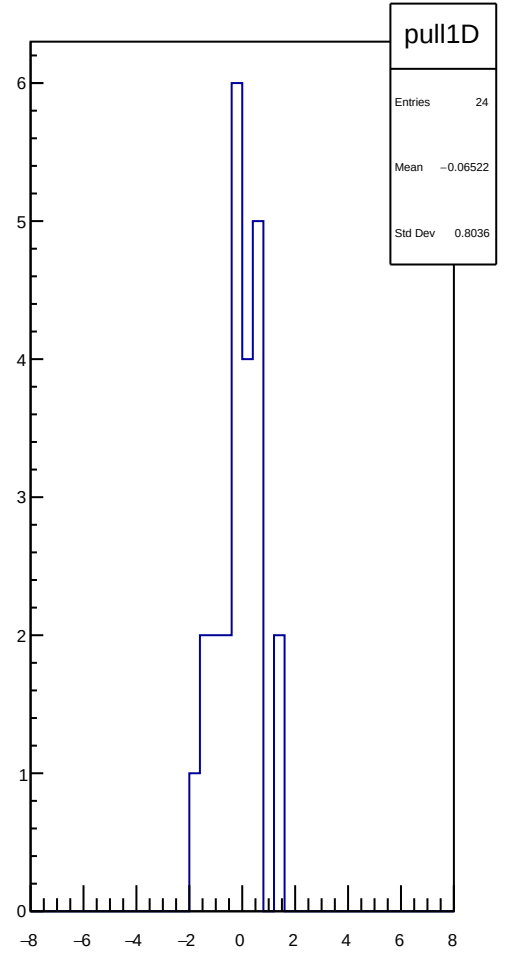

eigen_cor_asym_sam3_rms vs run
χ² / ndf 2.201e+04 / 23
p0 183.2 ± 0.27
350
300
250
200
150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

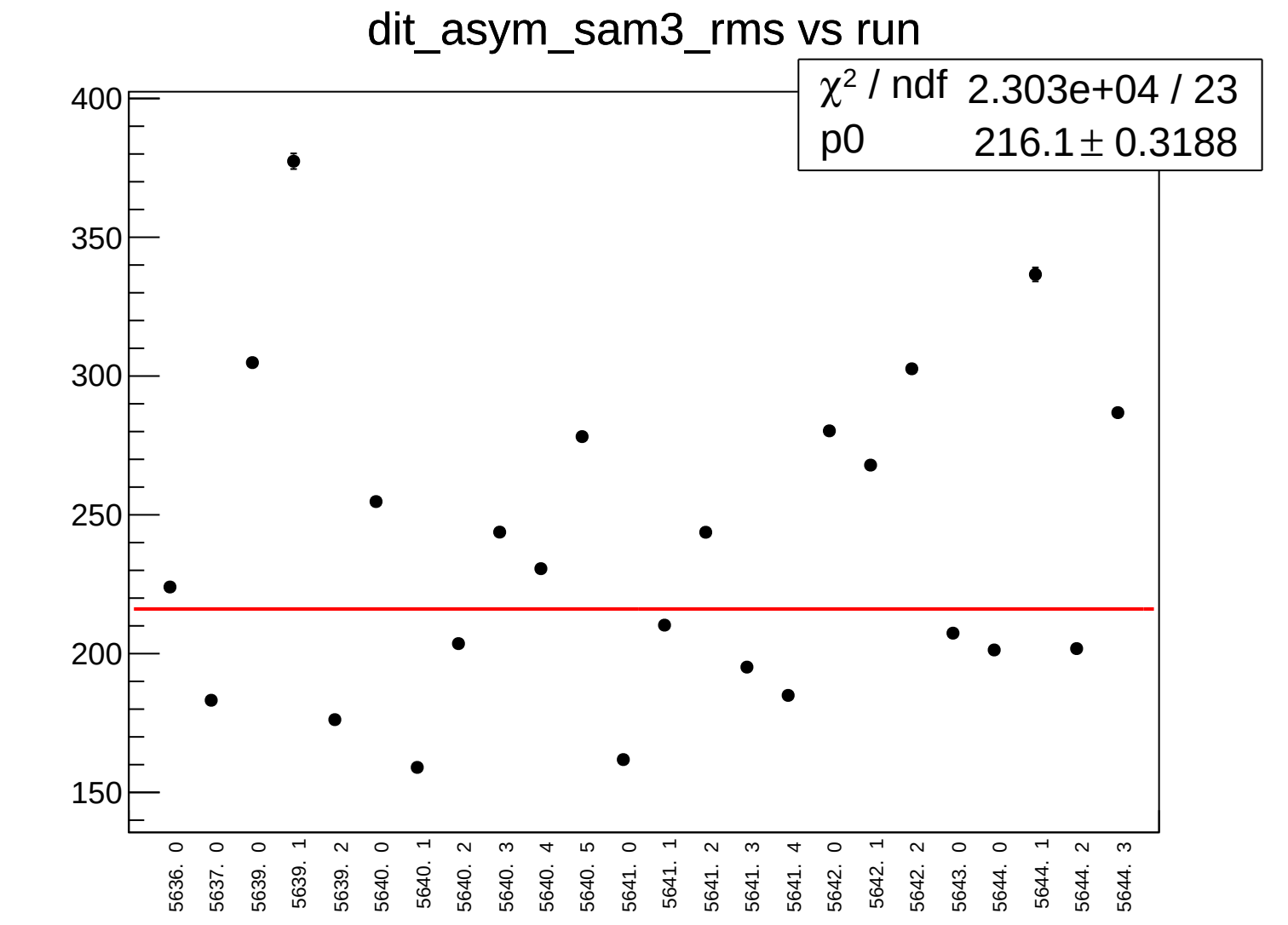

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 23.09 / 23
p0 −2101 ± 3477
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 28.79
Std Dev 22.52
1.5
1
0.5
0
−0.5
−1
−1.5

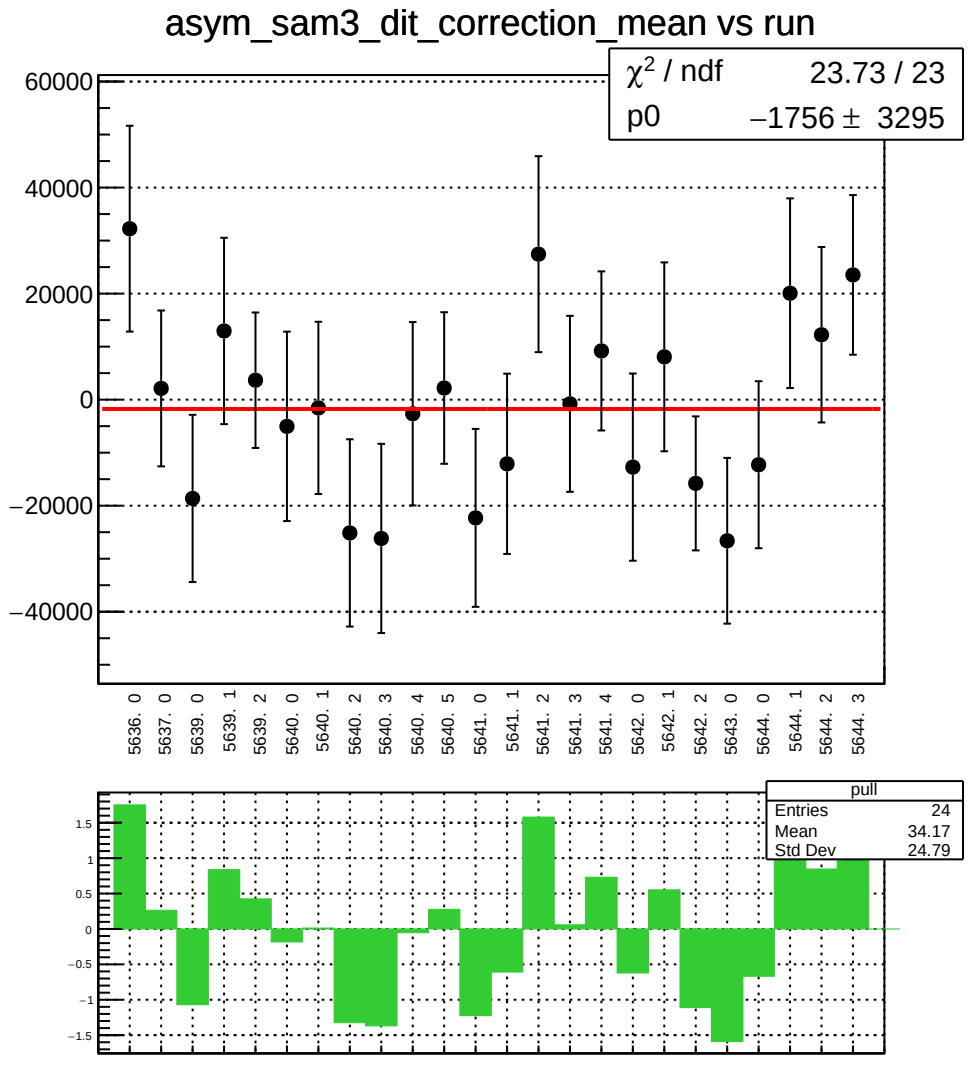

pull1D
Entries 24
Mean 0.02409
Std Dev 0.9807
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

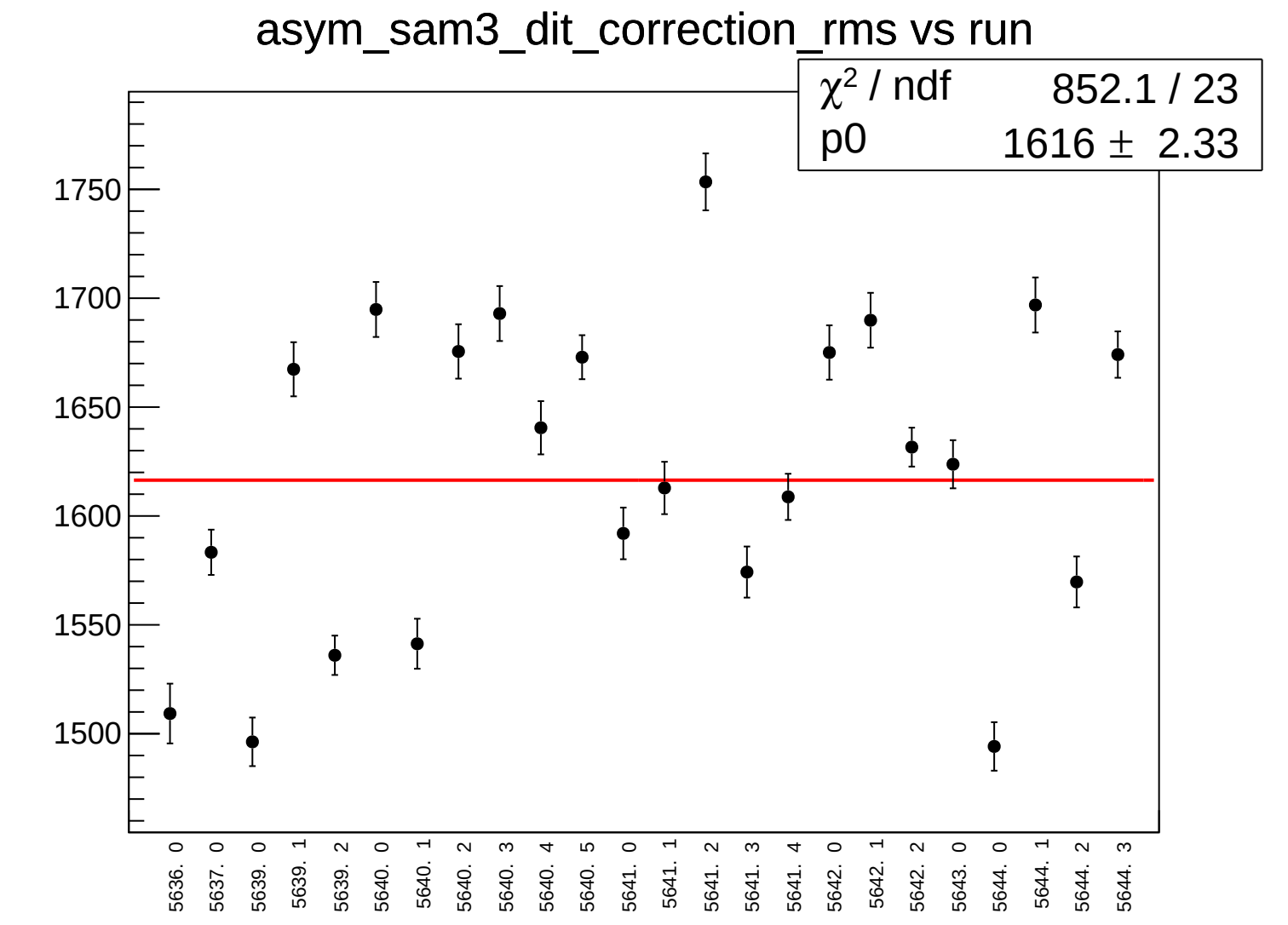

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 1751 / 23
p0 1704 ± 2.458
2000
1900
1800
1700
1600
1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

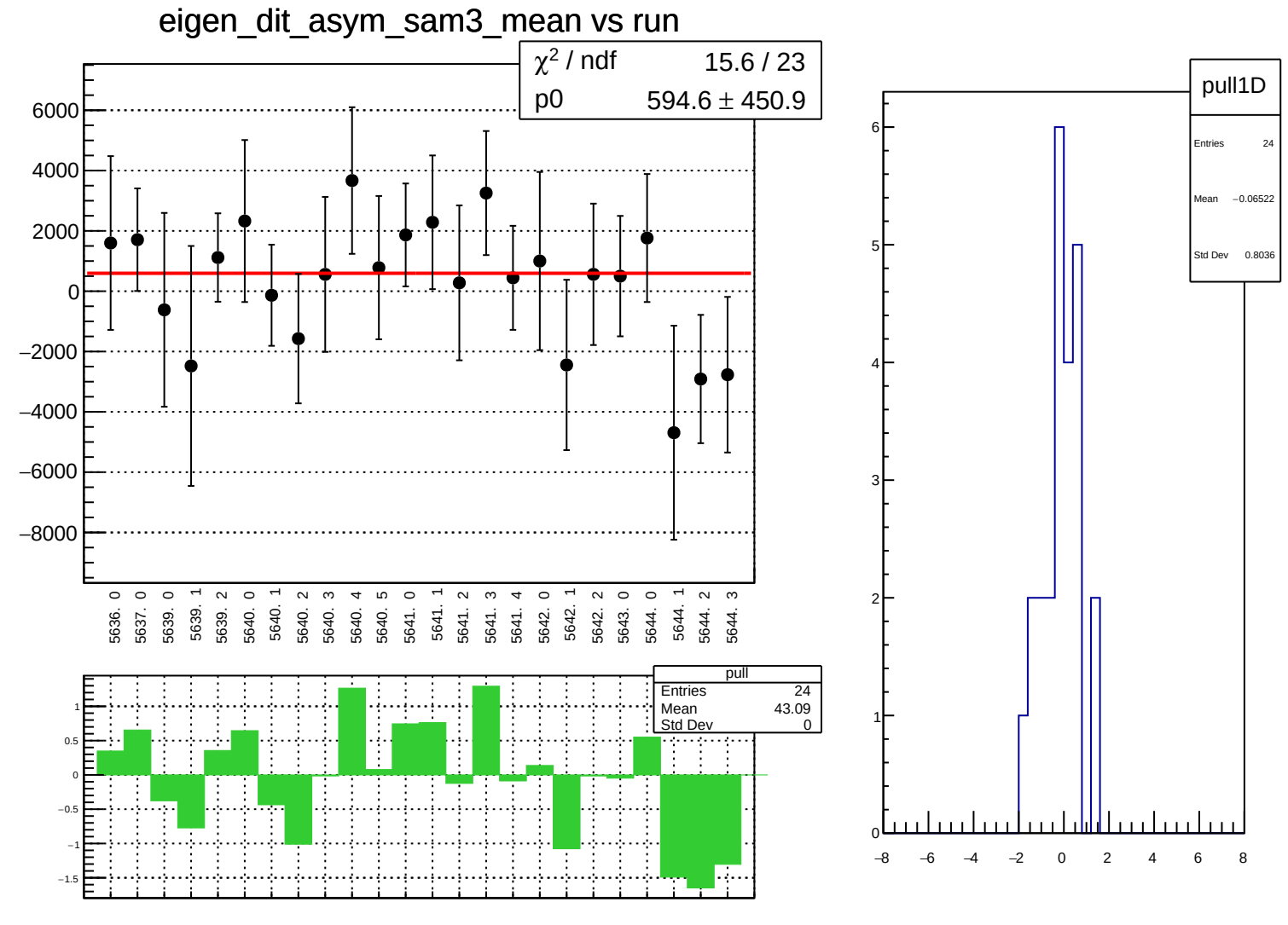

dit_asym_sam3_mean vs run
χ² / ndf 15.6 / 23
p0 594.6 ± 450.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 43.09
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

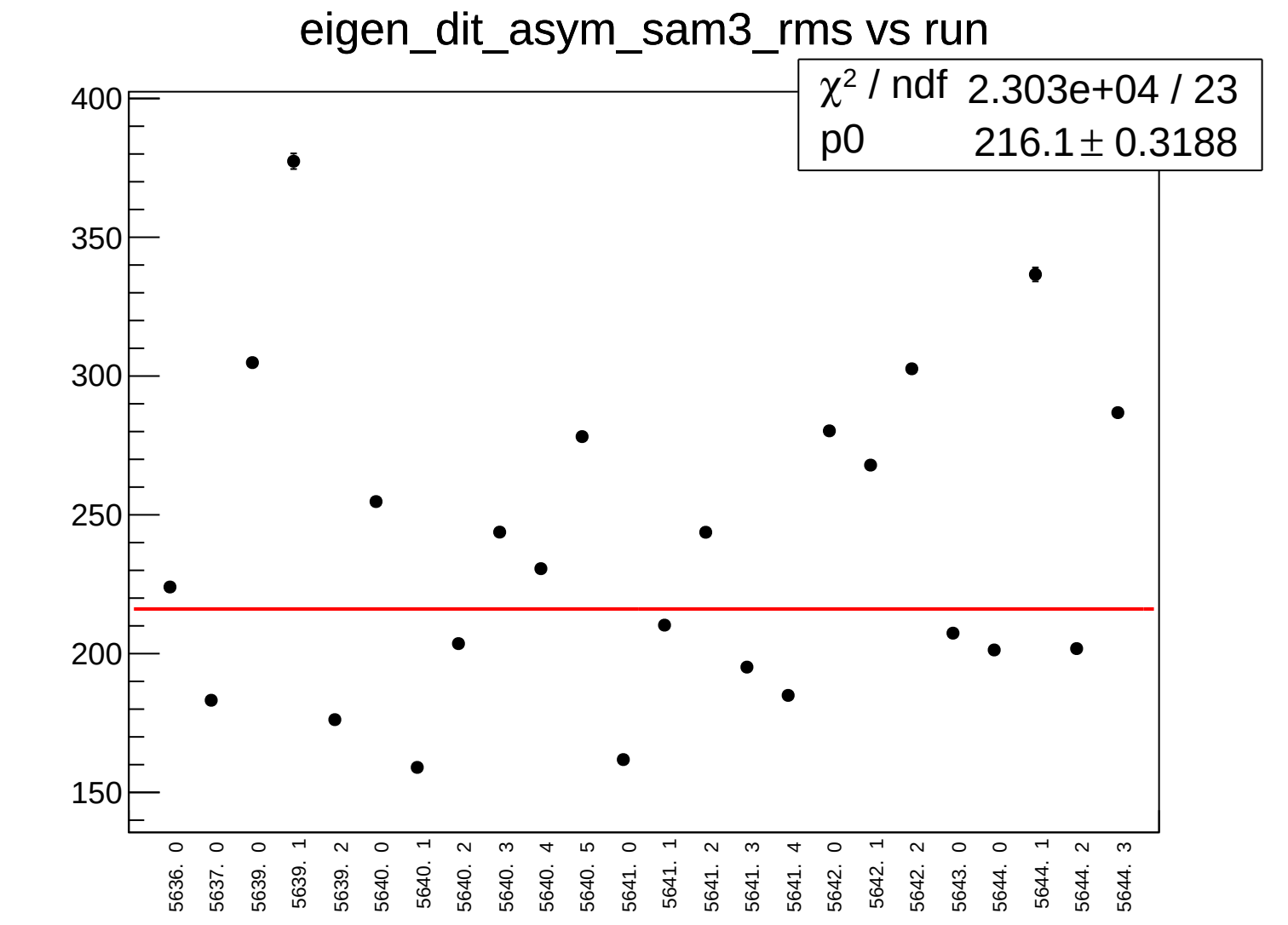

pull1D
Entries 24
Mean −0.06522
Std Dev 0.8036
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

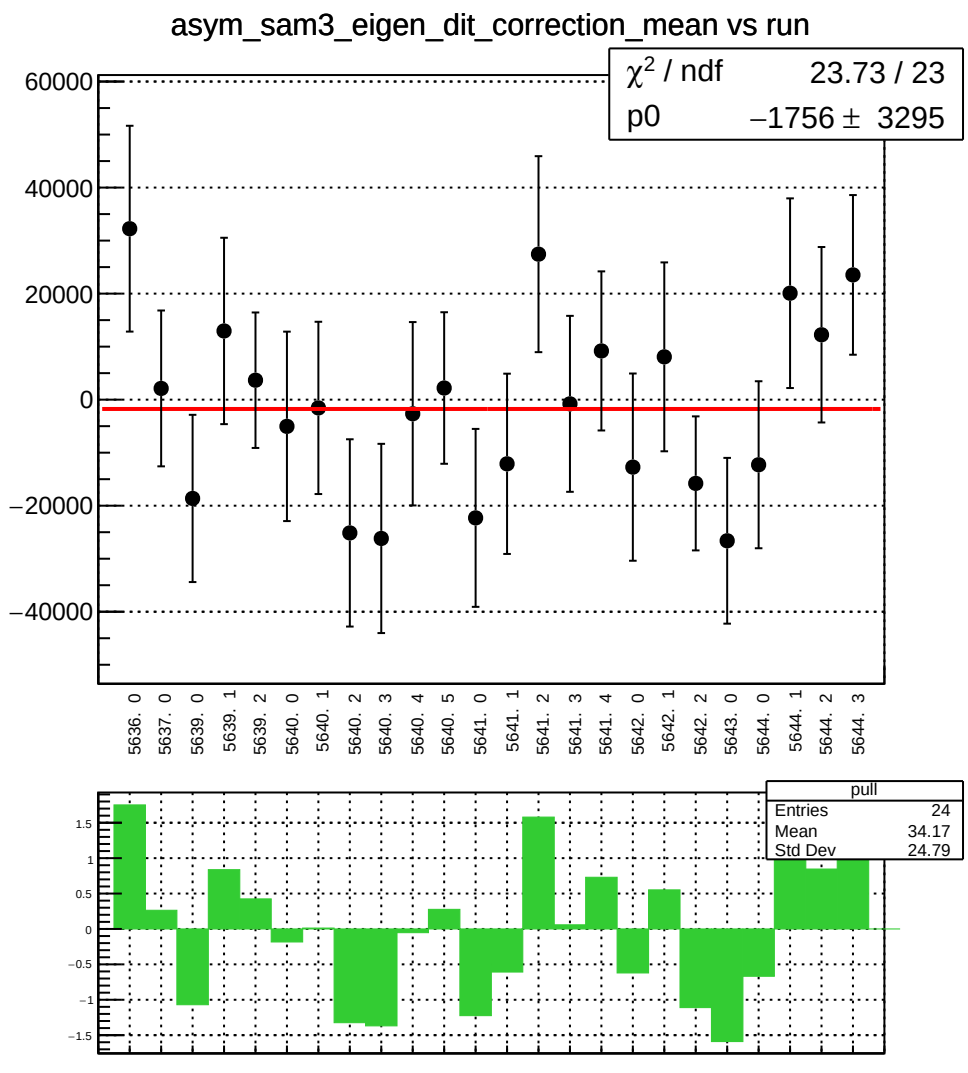

dit_asym_sam3_rms vs run
χ² / ndf 2.303e+04 / 23
p0 216.1 ± 0.3188
400
350
300
250
200
150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

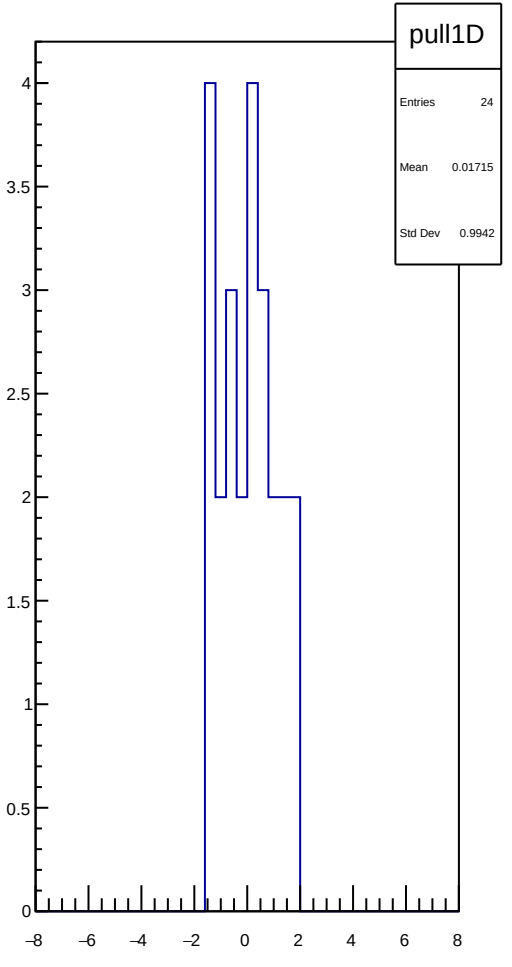

asym_sam3_dit_correction_mean vs run
χ² / ndf 23.73 / 23
p0 −1756 ± 3295
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 34.17
Std Dev 24.79
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.01715
Std Dev 0.9942
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

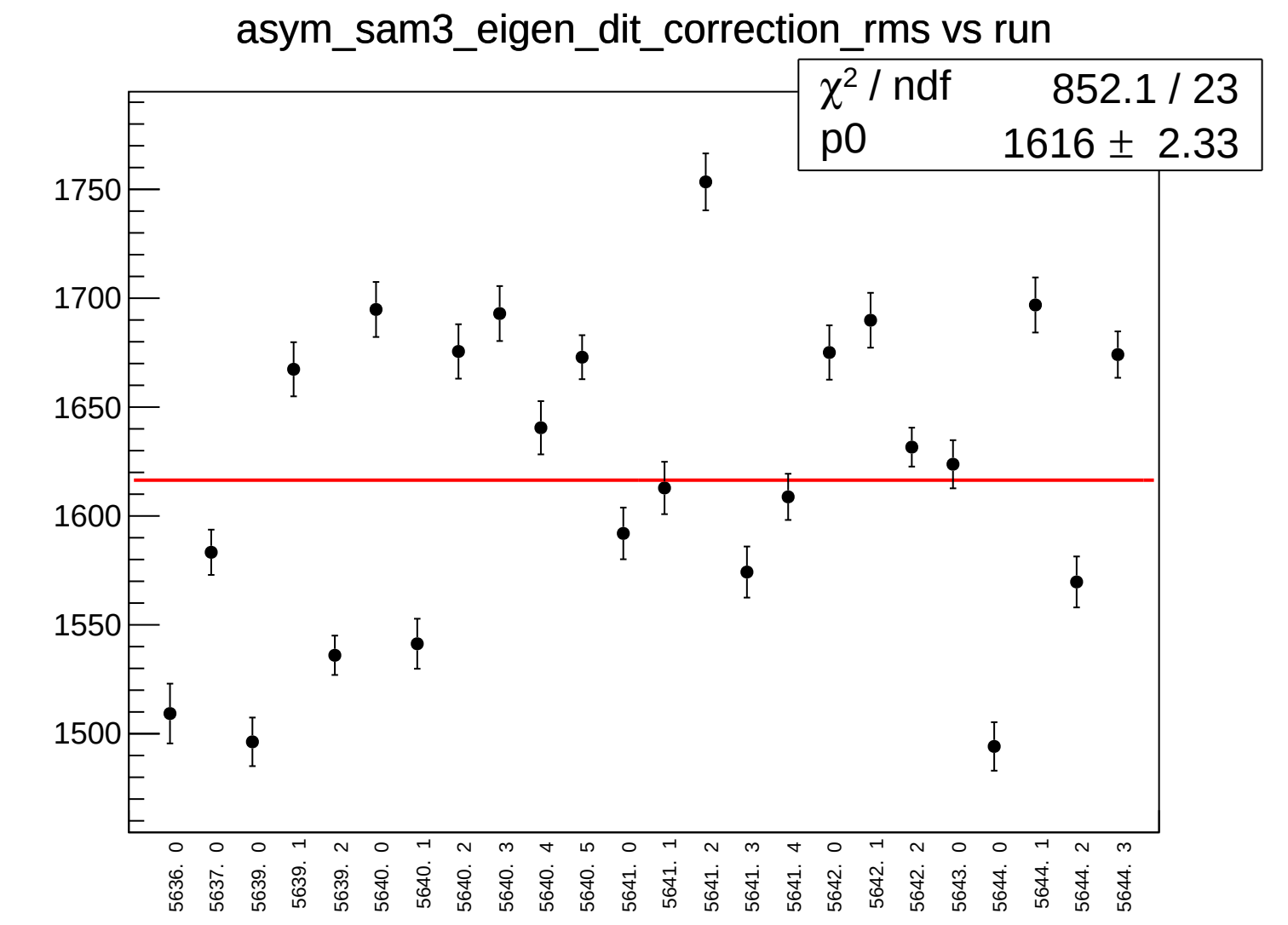

asym_sam3_dit_correction_rms vs run
χ² / ndf 852.1 / 23
p0 1616 ± 2.33
1750
1700
1650
1600
1550
1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

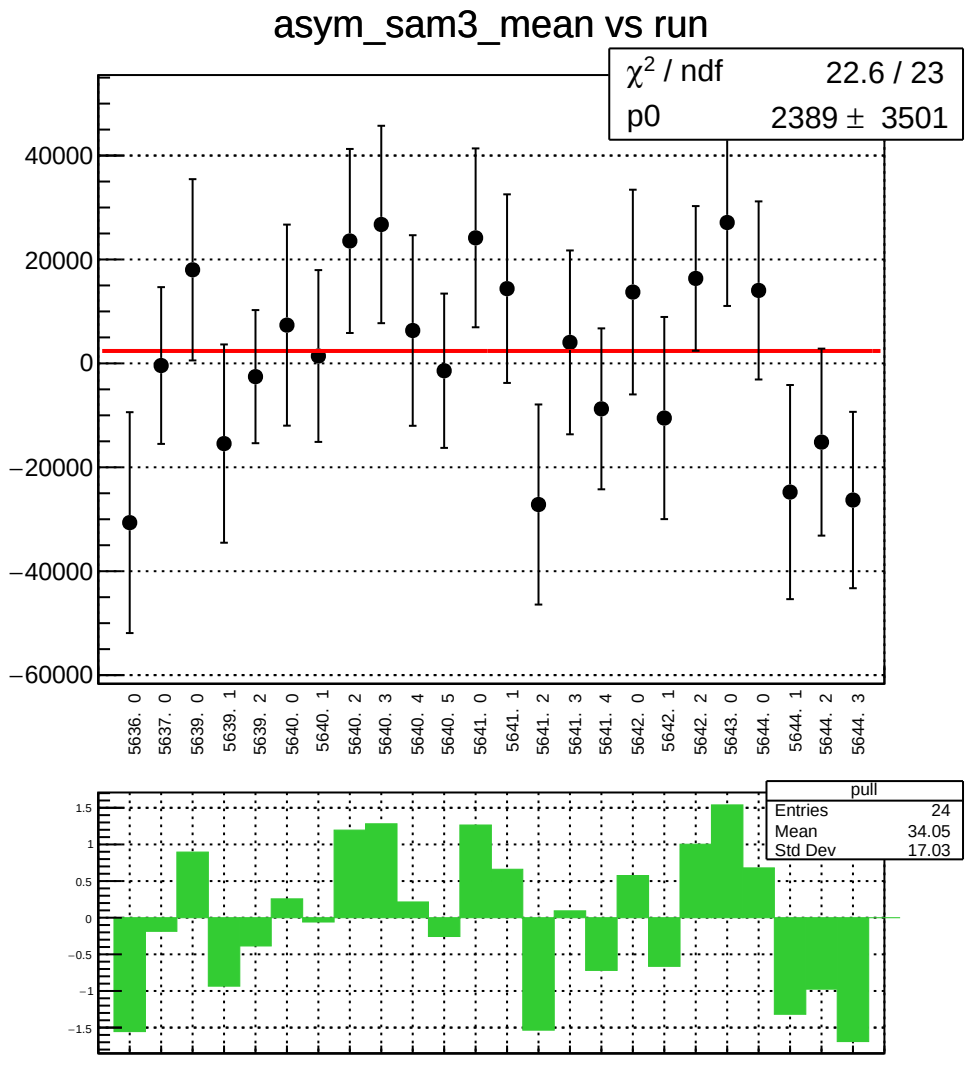

eigen_dit_asym_sam3_mean vs run
χ² / ndf 15.6 / 23
p0 594.6 ± 450.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 43.09
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.06522
Std Dev 0.8036
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

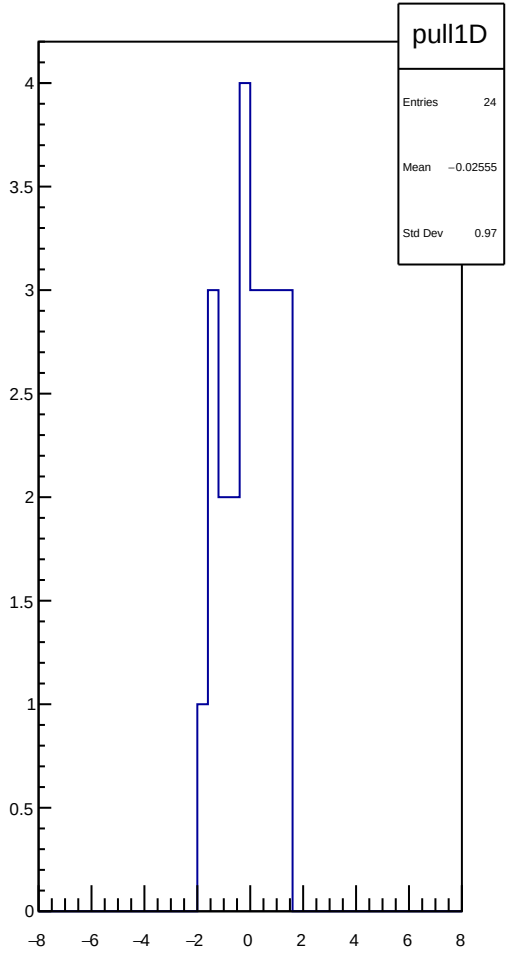

eigen_dit_asym_sam3_rms vs run
χ² / ndf 2.303e+04 / 23
p0 216.1 ± 0.3188
400
350
300
250
200
150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

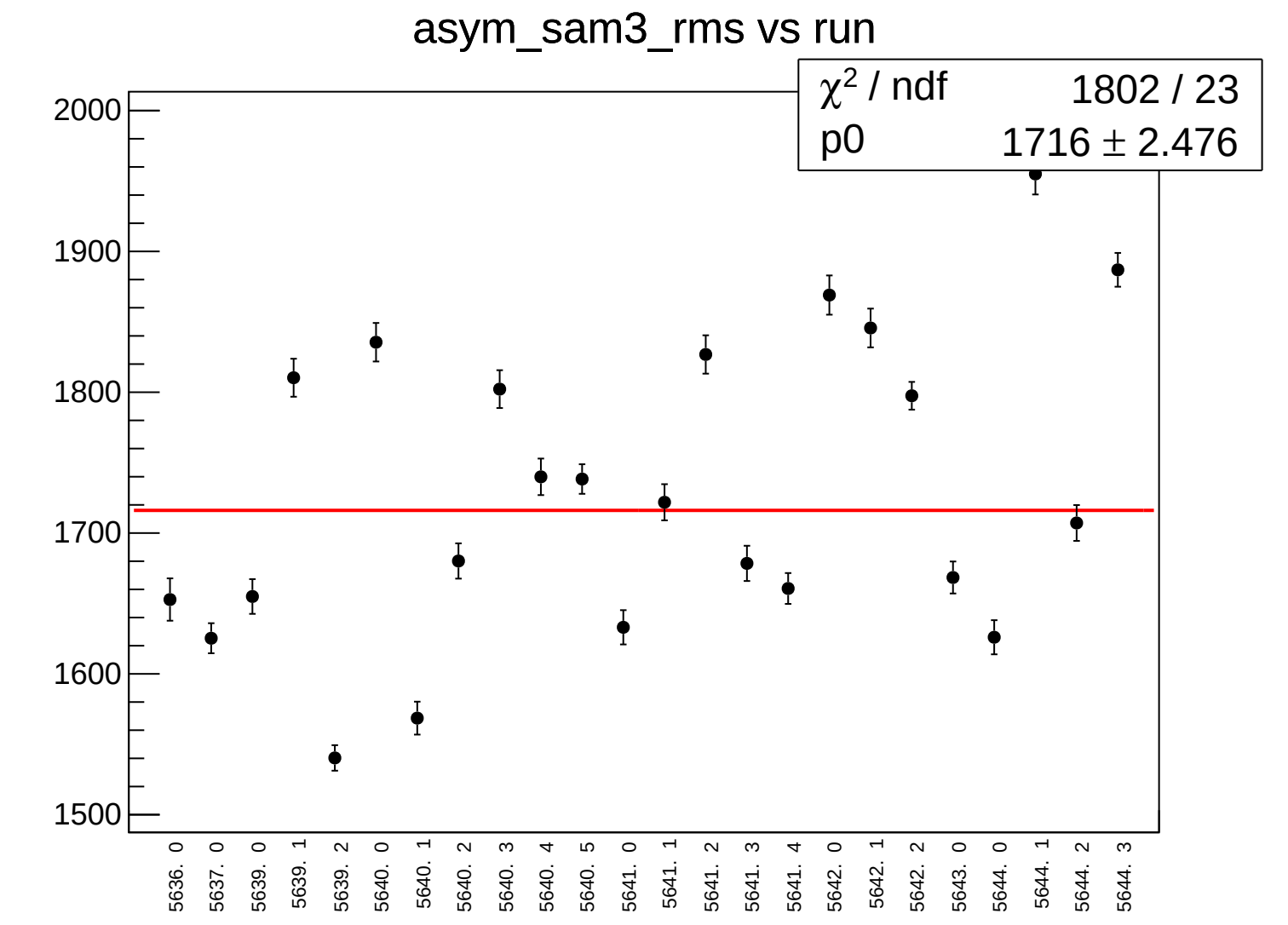

asym_sam3_eigen_dit_correction_mean vs run
χ² / ndf 23.73 / 23
p0 −1756 ± 3295
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 34.17
Std Dev 24.79
1.5
1
0.5
0
−0.5
−1
−1.5

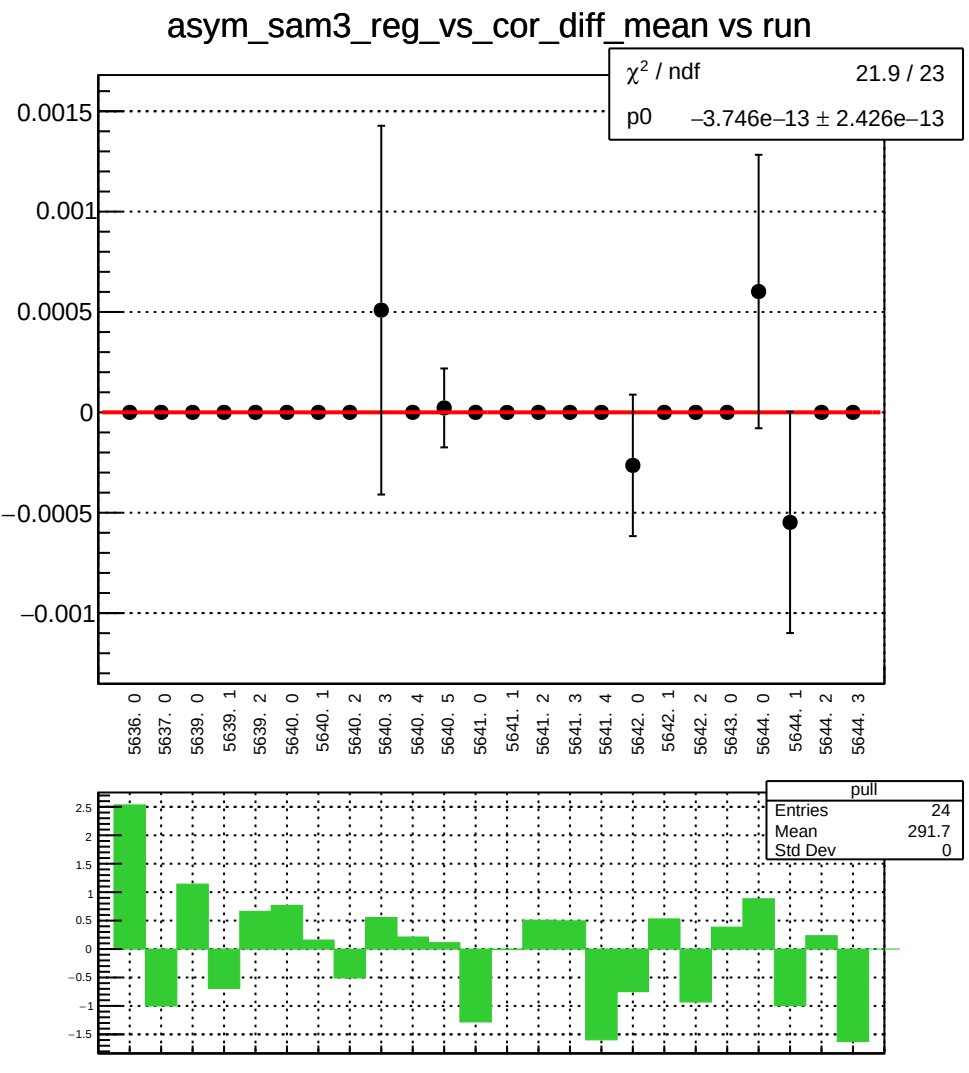

pull1D
Entries 24
Mean 0.01715
Std Dev 0.9942
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

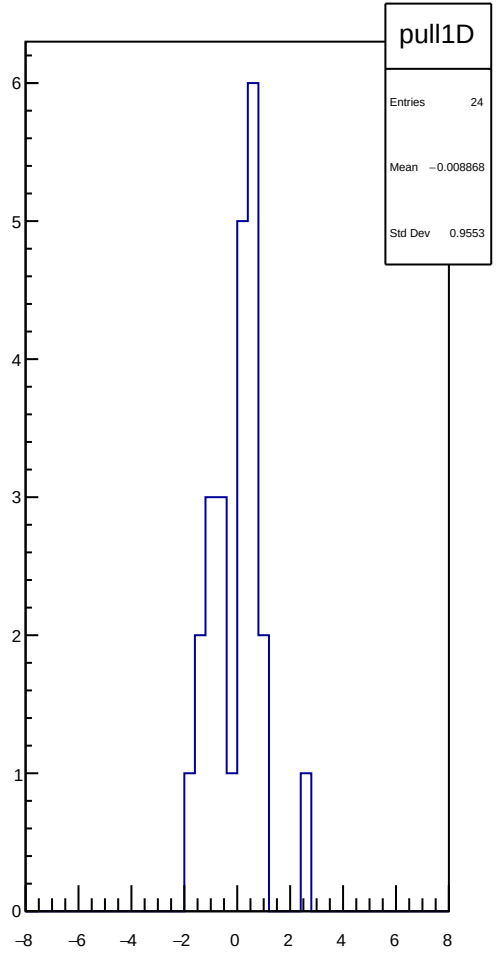

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 852.1 / 23
p0 1616 ± 2.33
1750
1700
1650
1600
1550
1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

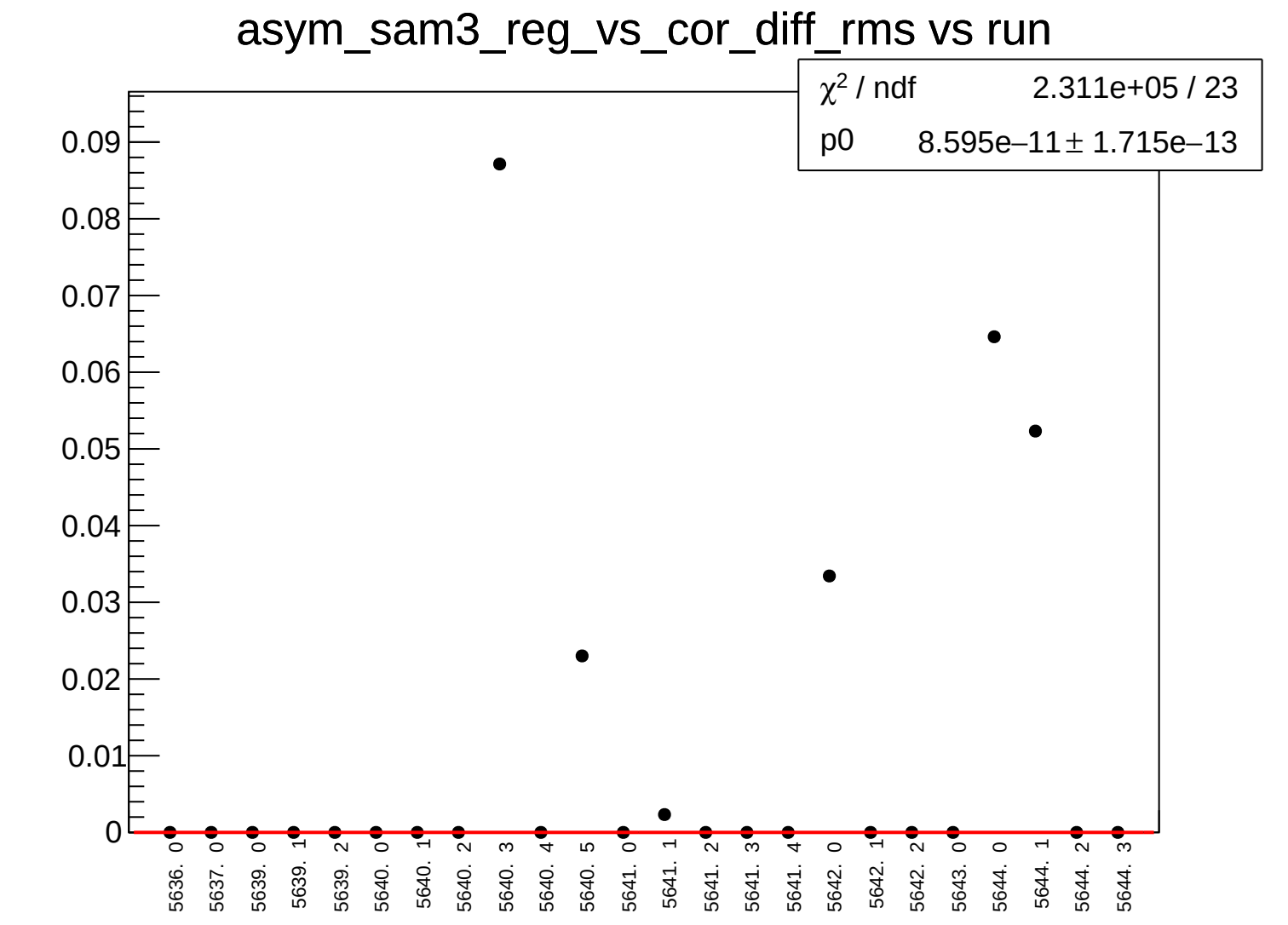

asym_sam3_mean vs run
χ² / ndf 22.6 / 23
p0 2389 ± 3501
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 34.05
Std Dev 17.03
1.5
1
0.5
0
−0.5
−1
−1.5

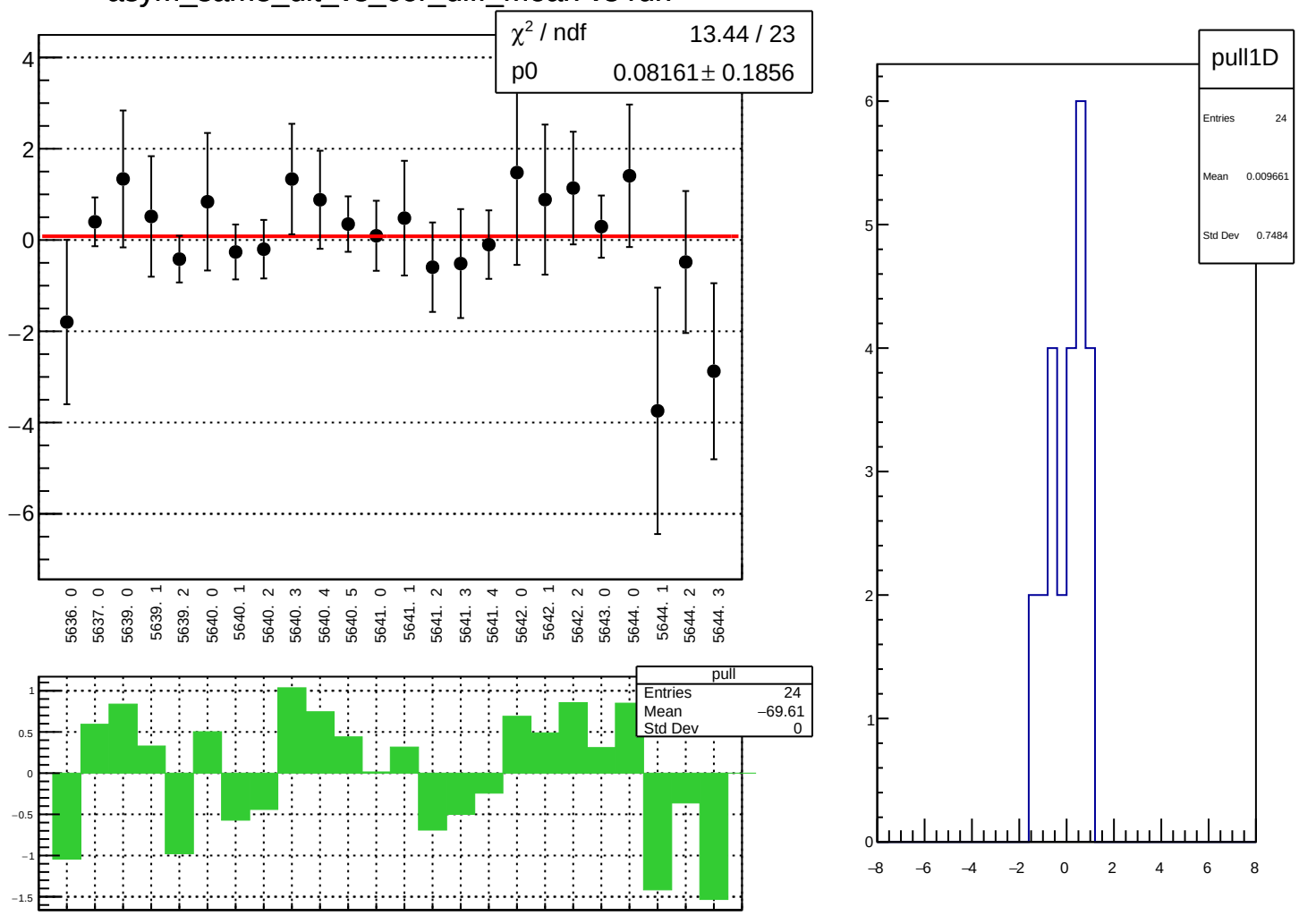

pull1D
Entries 24
Mean −0.02555
Std Dev 0.97
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

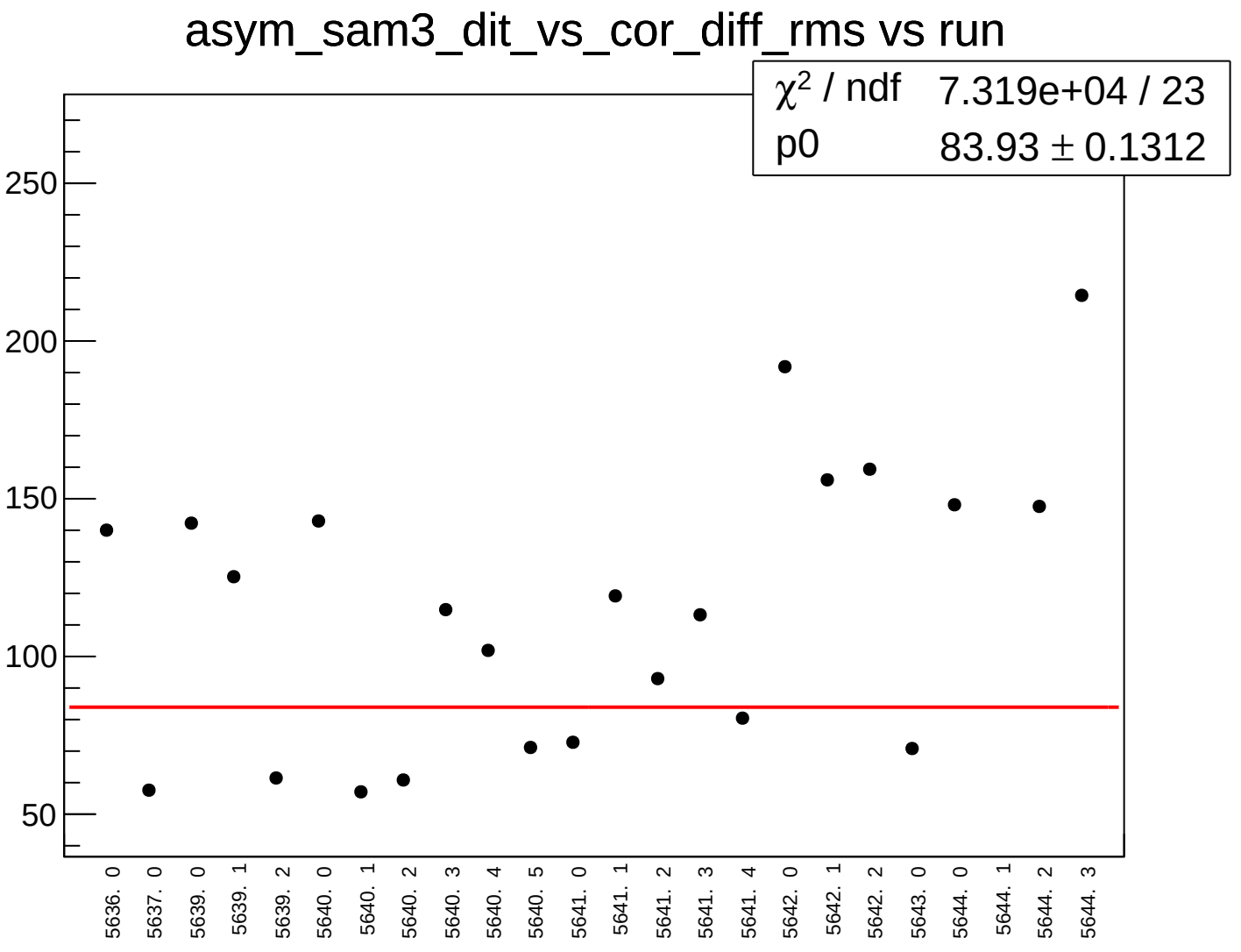

asym_sam3_rms vs run
χ² / ndf 1802 / 23
p0 1716 ± 2.476
2000
1900
1800
1700
1600
1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

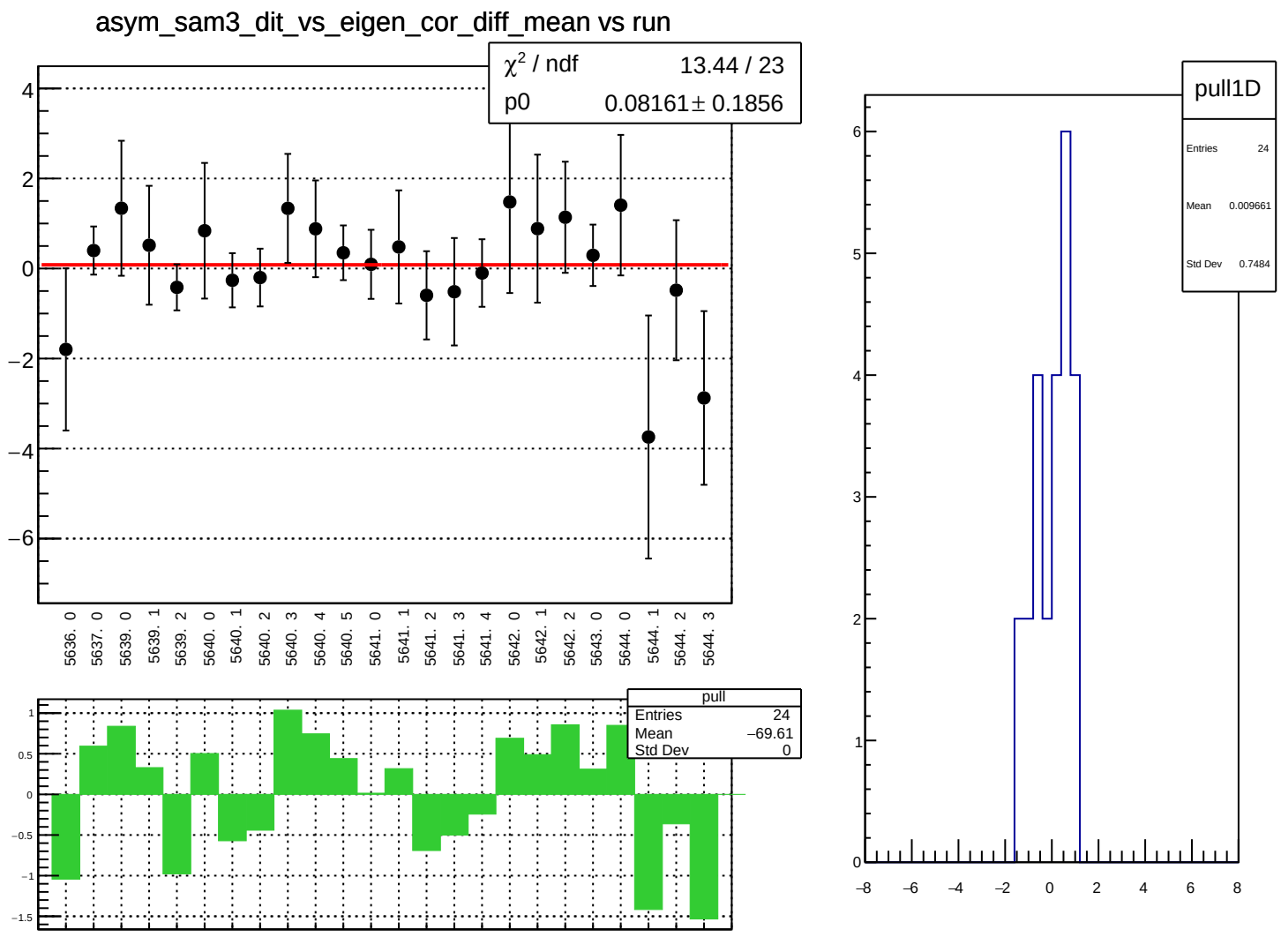

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 21.9 / 23
p0 −3.746e−13 ± 2.426e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 291.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

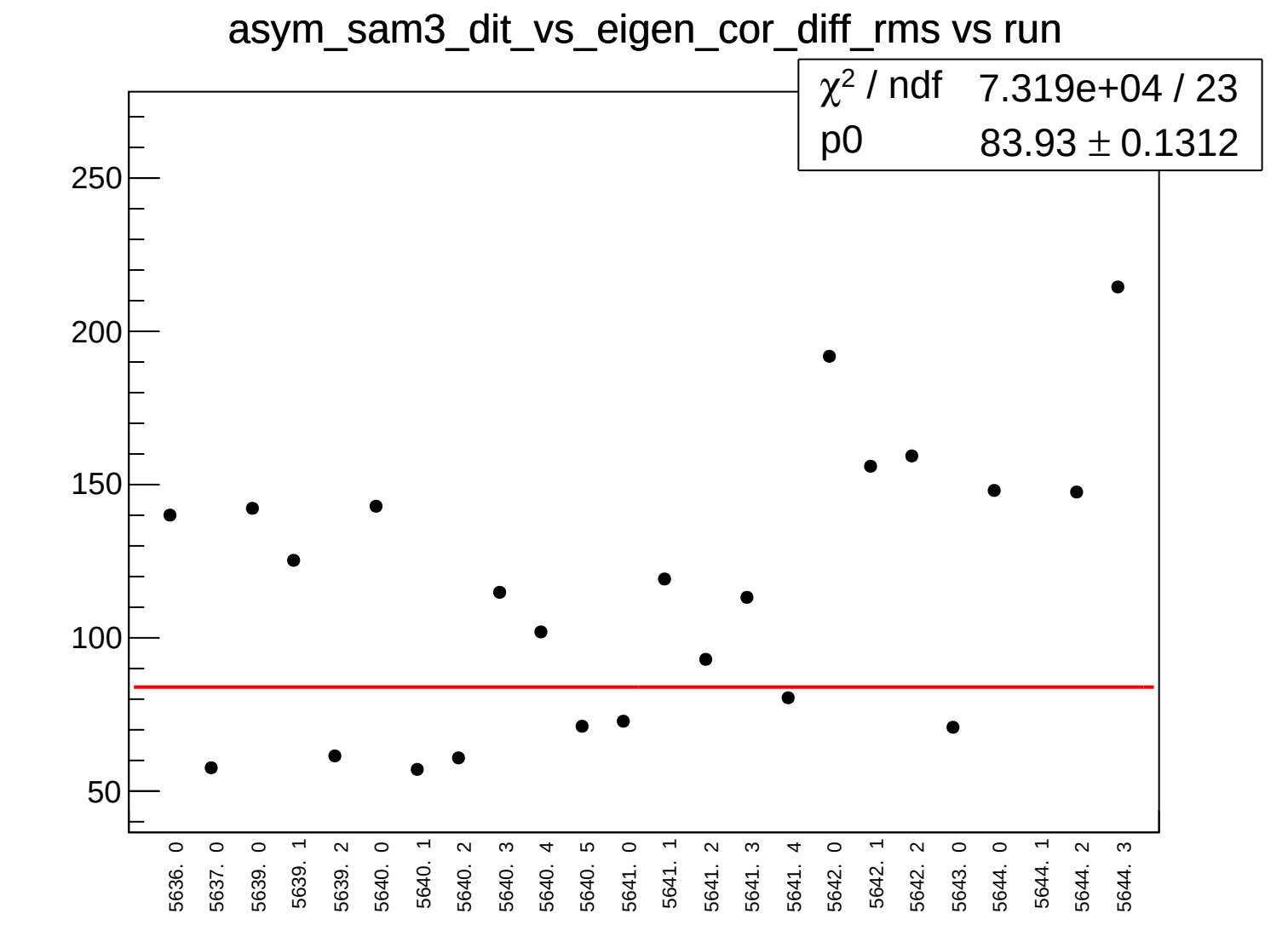

pull1D
Entries 24
Mean −0.008868
Std Dev 0.9553
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

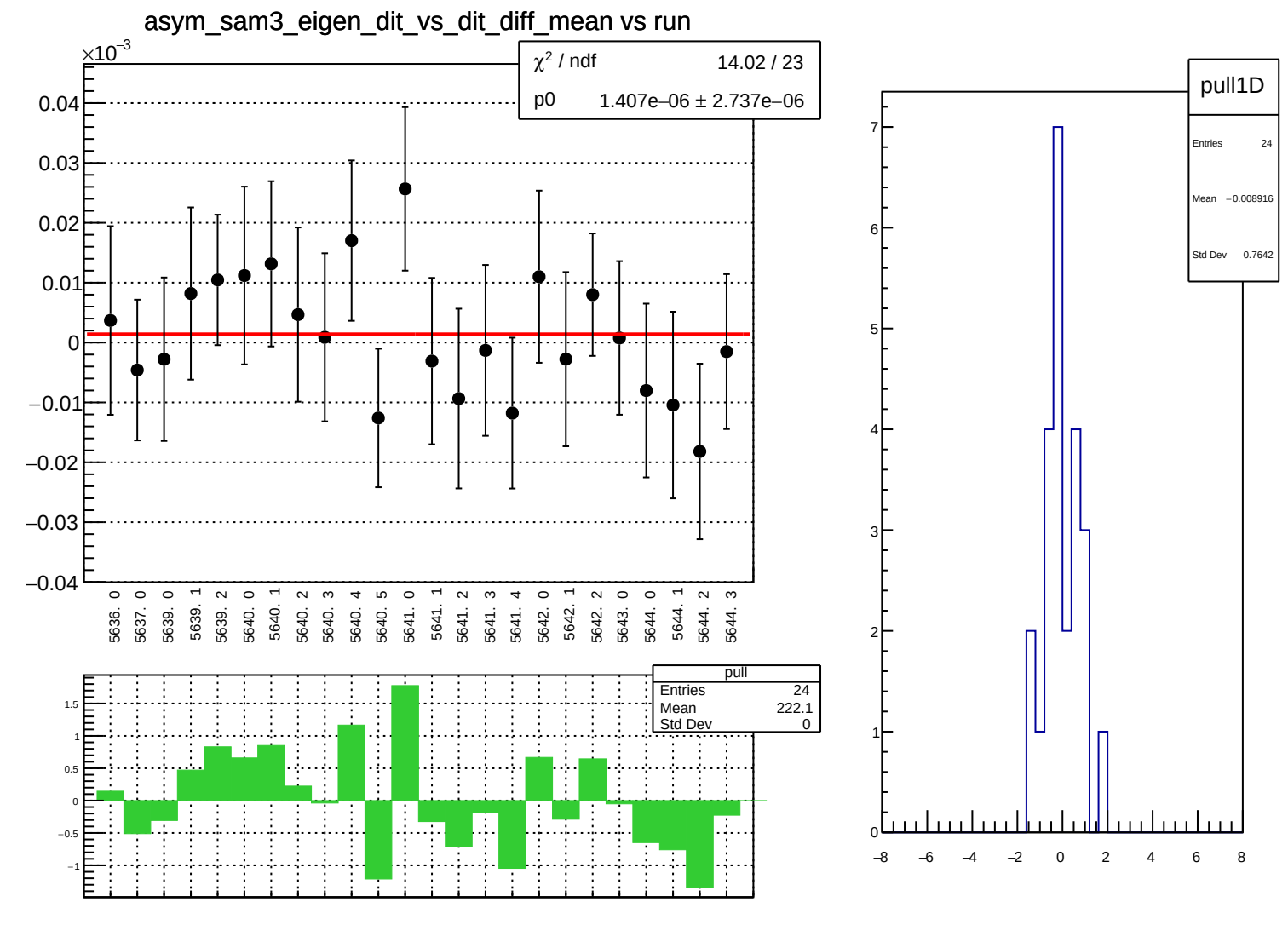

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 2.311e+05 / 23
p0 8.595e−11 ± 1.715e−13
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

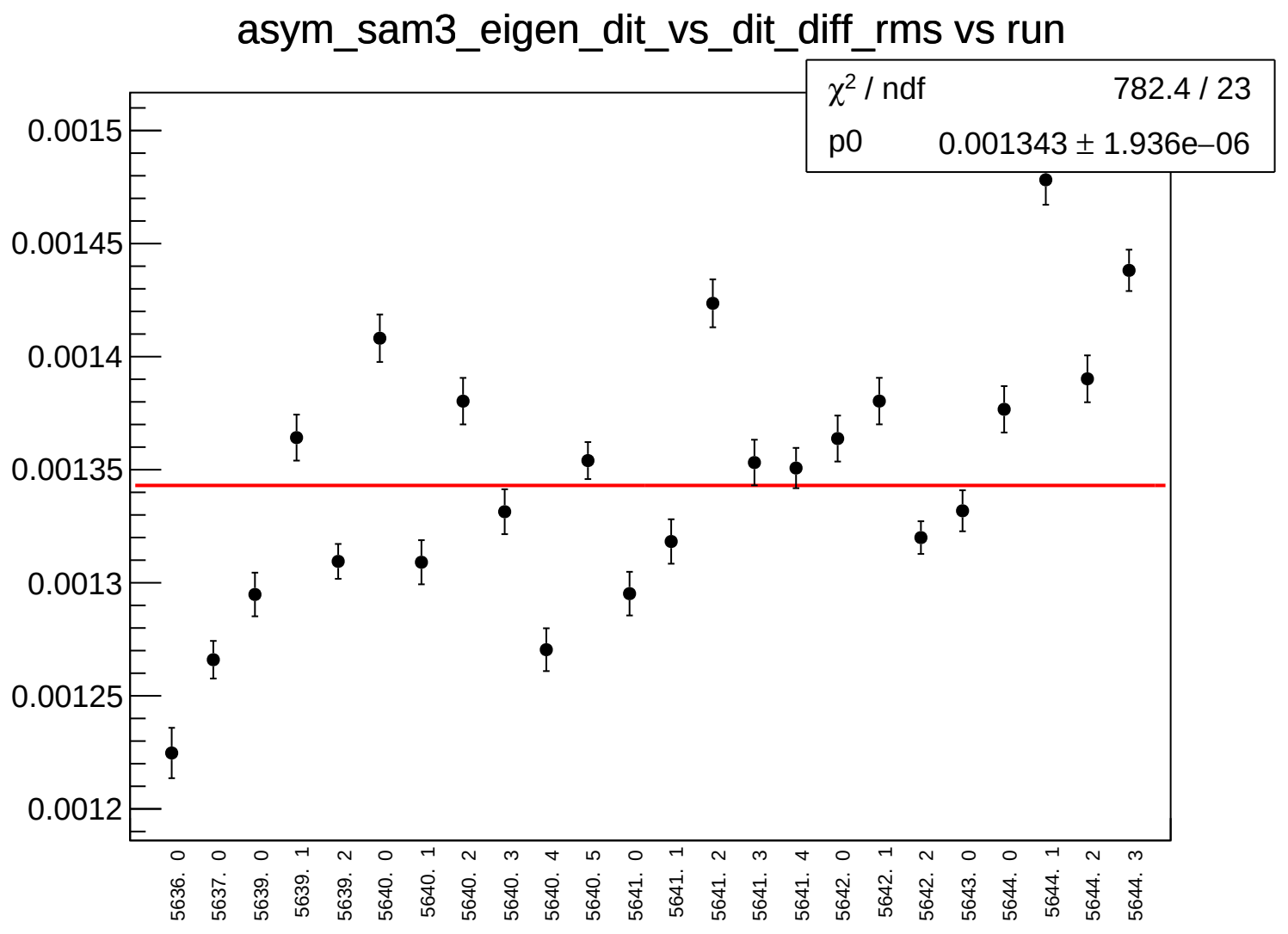

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 13.44 / 23
p0 0.08161± 0.1856
4
2
0
−2
−4
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −69.61
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.009661
Std Dev 0.7484
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

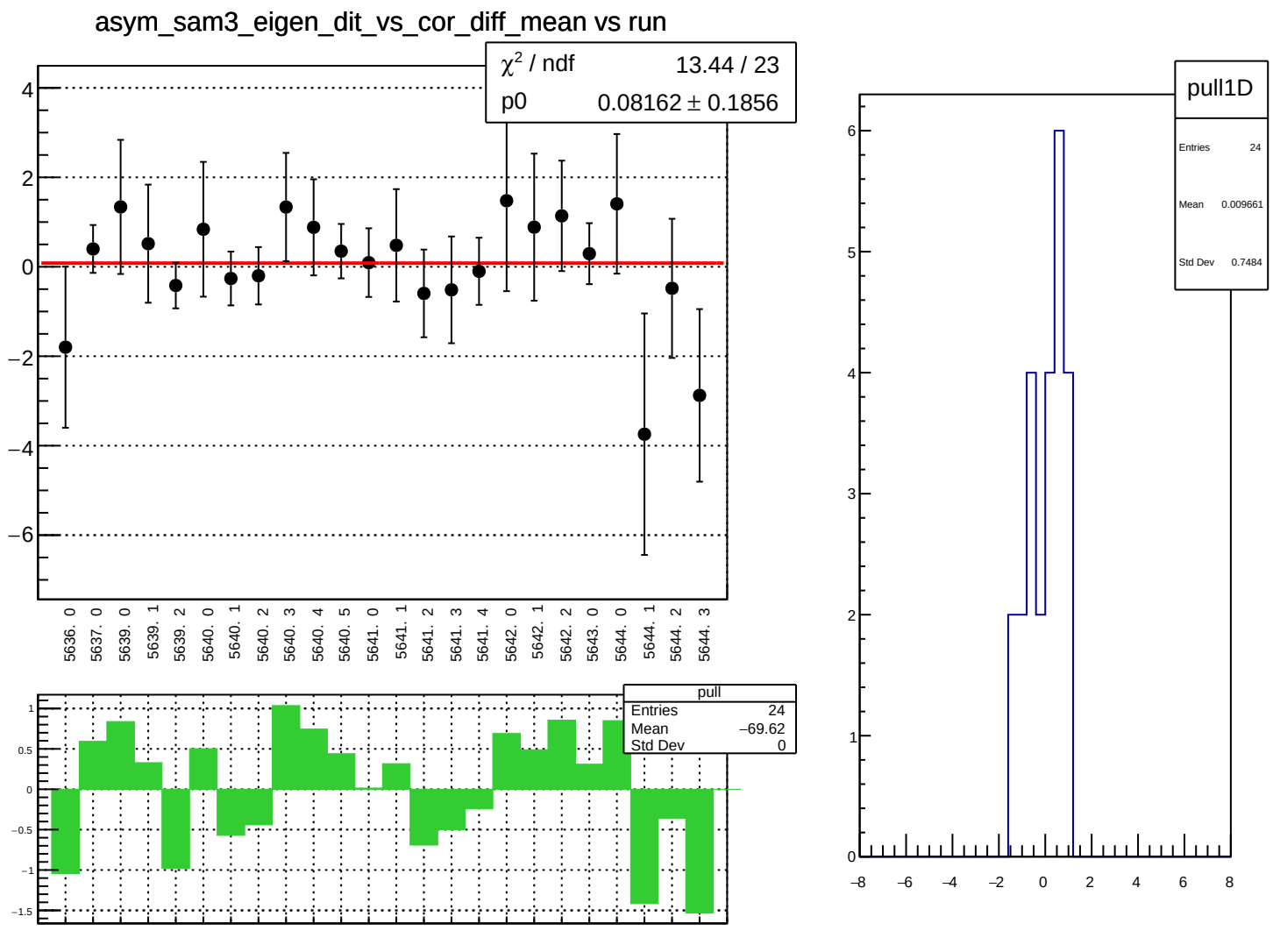

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 7.319e+04 / 23
p0 83.93 ± 0.1312
250
200
150
100
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

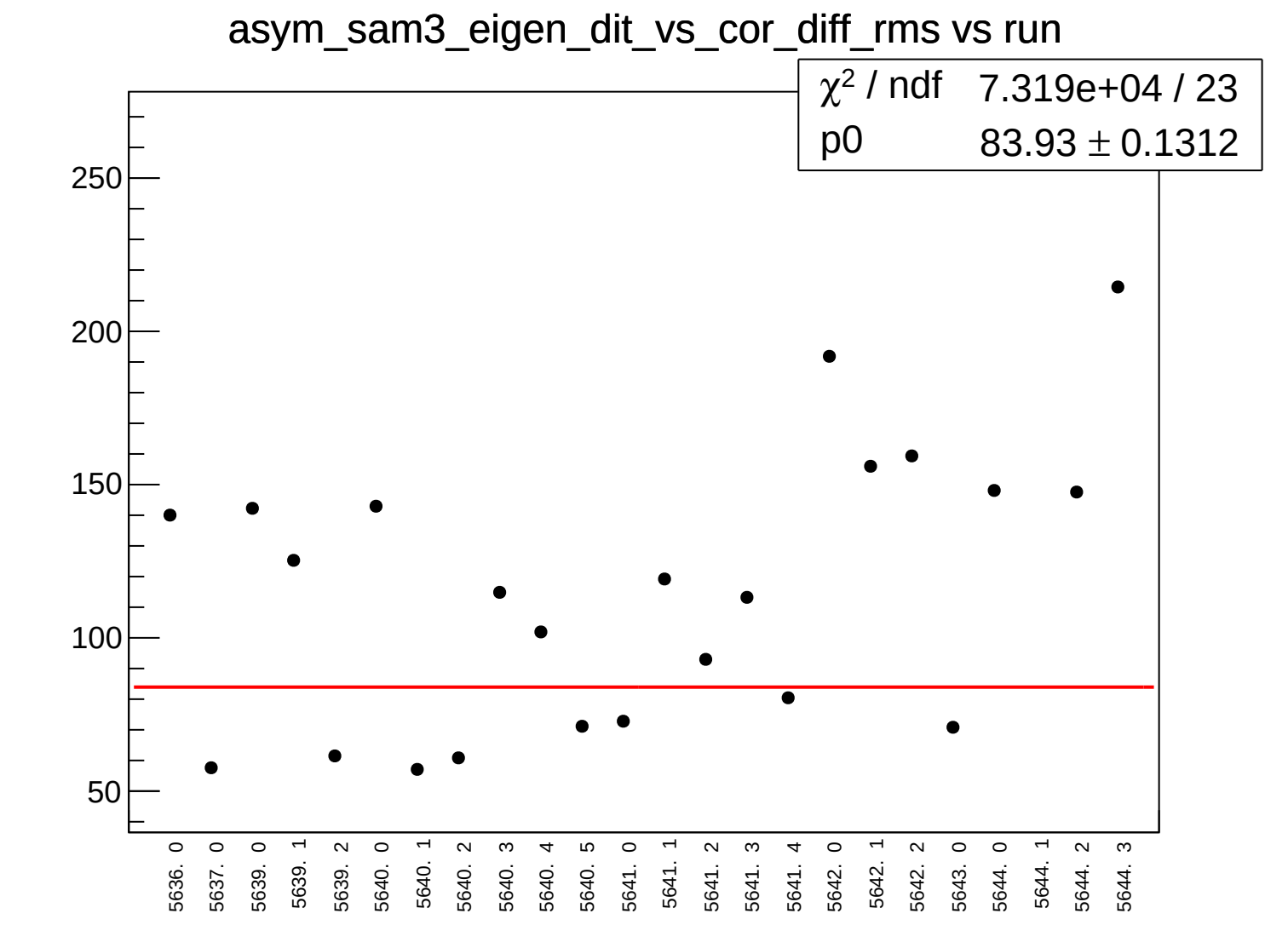

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 13.44 / 23
p0 0.08161 ± 0.1856
4
2
0
−2
−4
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −69.61
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.009661
Std Dev 0.7484
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

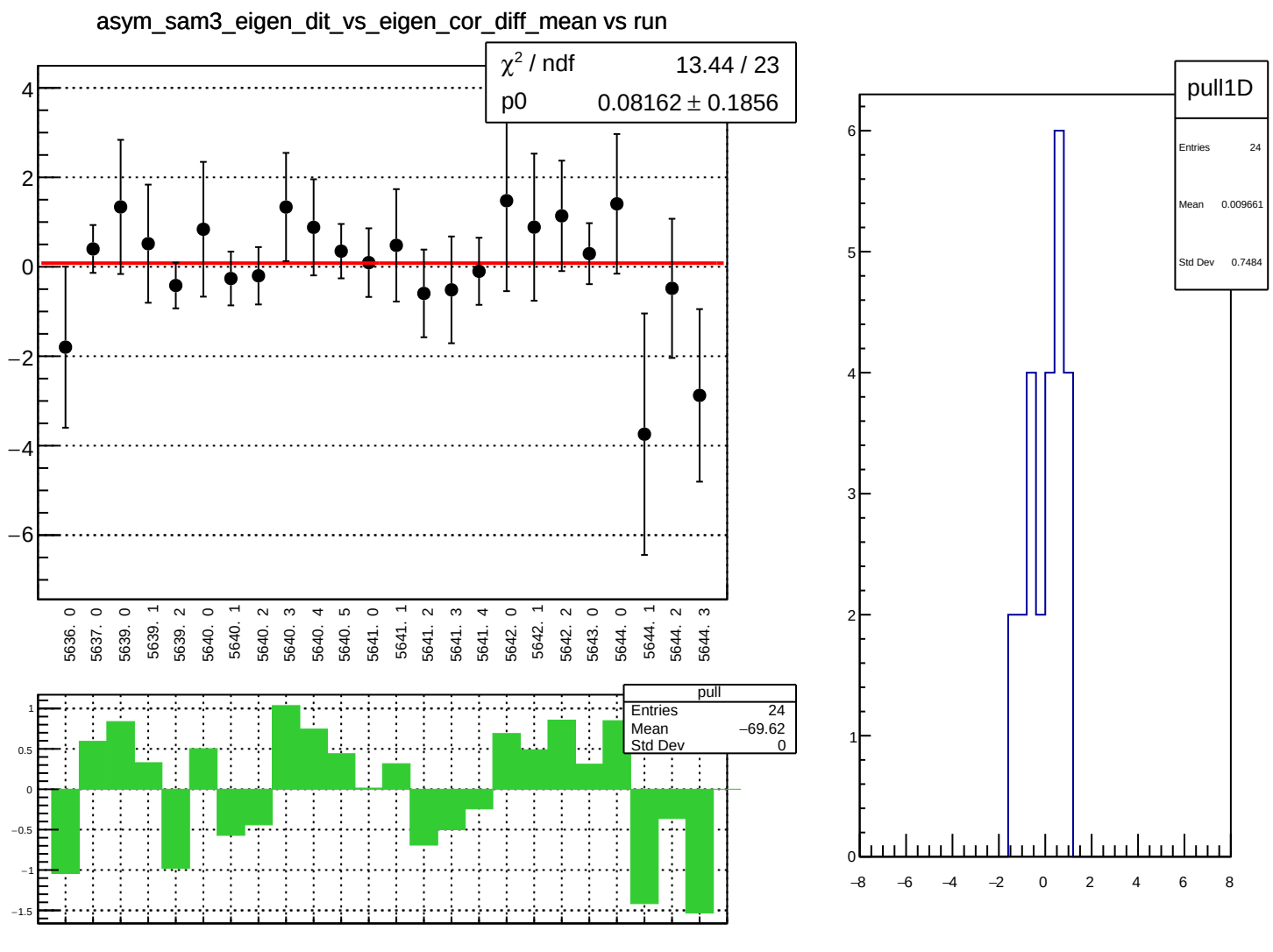

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.319e+04 / 23
p0 83.93 ± 0.1312
250
200
150
100
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

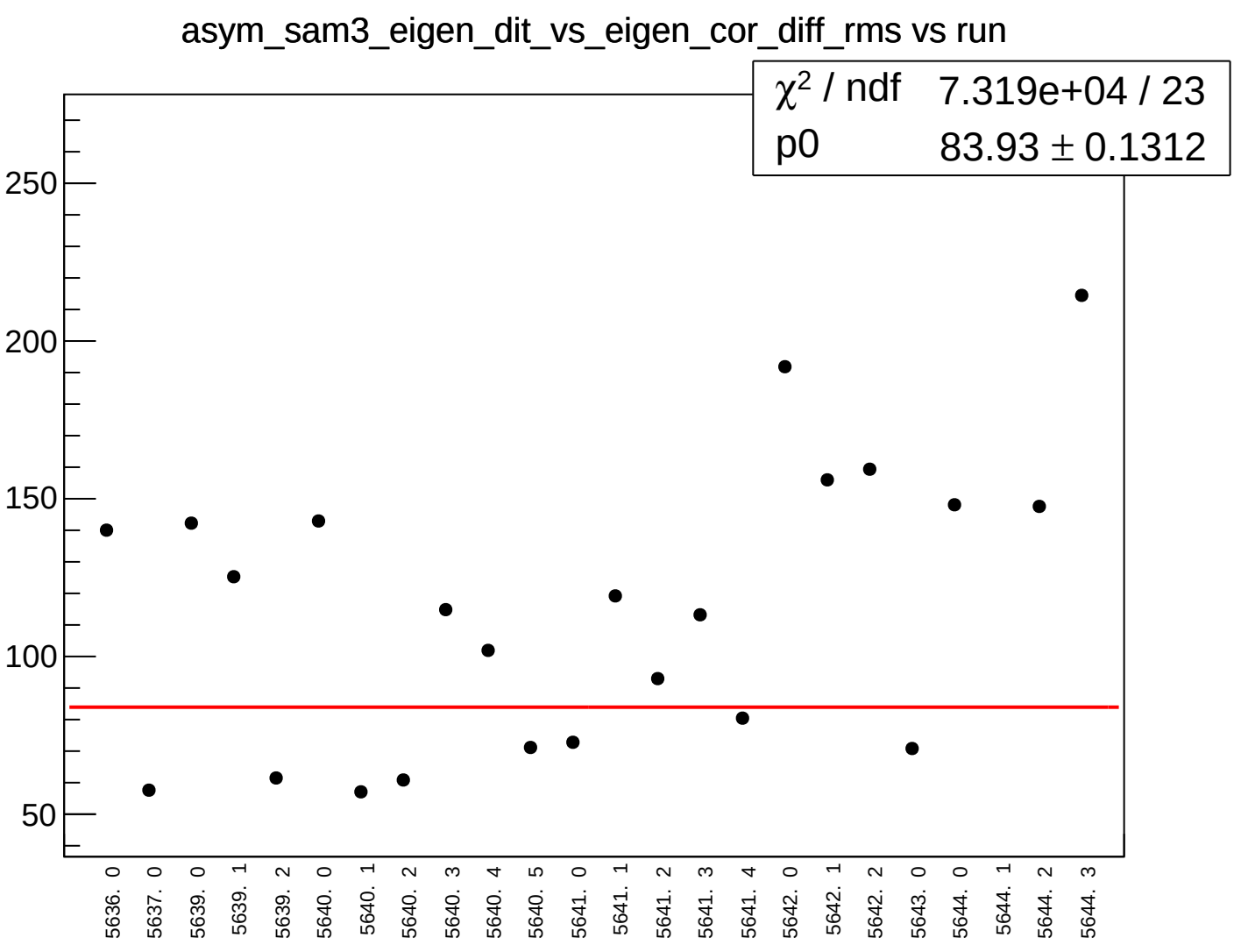

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 14.02 / 23
p0 1.407e−06 ± 2.737e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 222.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.008916
Std Dev 0.7642
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

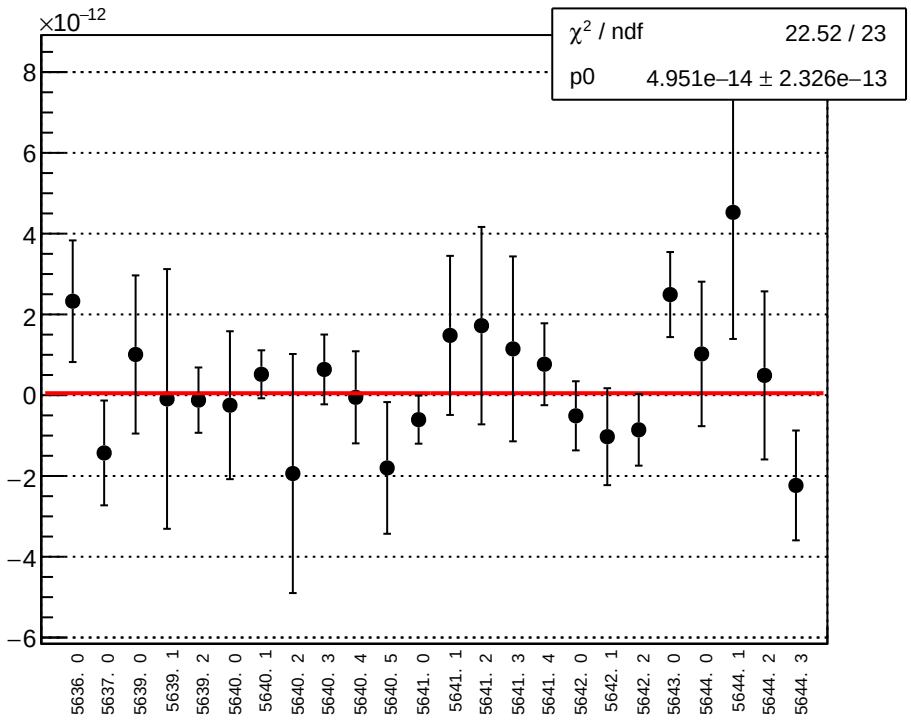

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 782.4 / 23
p0 0.001343 ± 1.936e−06
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125
0.0012
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

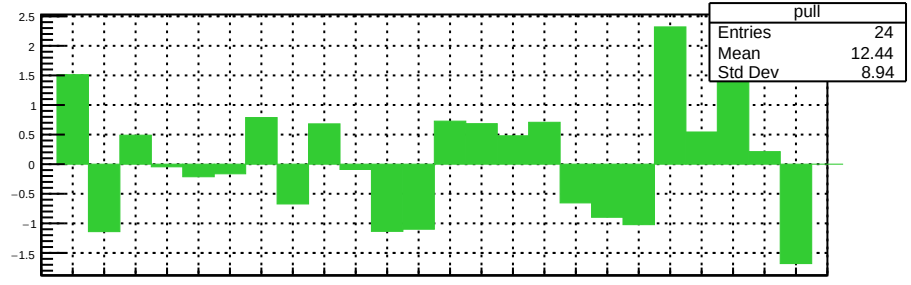

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 13.44 / 23
p0 0.08162 ± 0.1856
4
2
0
−2
−4
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −69.62
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.009661
Std Dev 0.7484
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

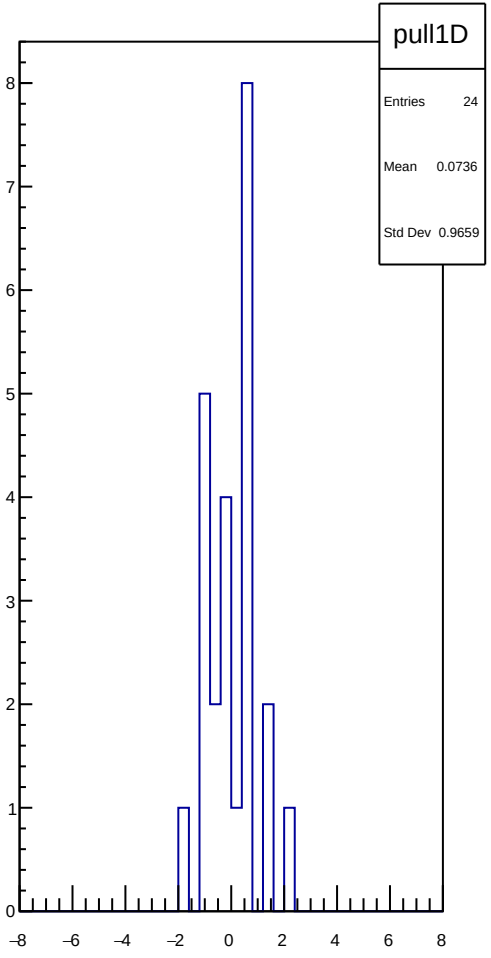

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.319e+04 / 23
p0 83.93 ± 0.1312
250
200
150
100
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

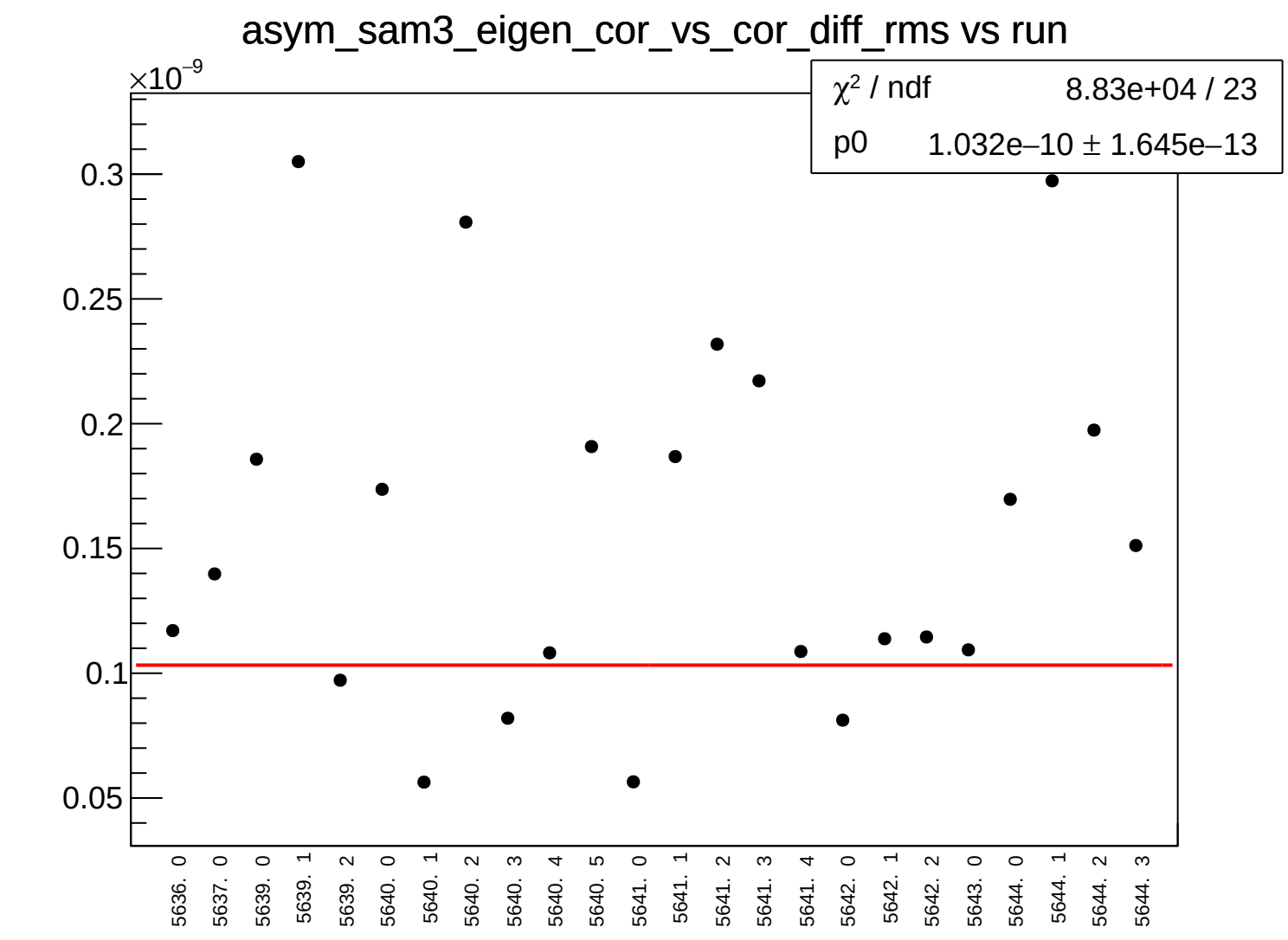

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 13.44 / 23
p0 0.08162 ± 0.1856
4
2
0
−2
−4
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −69.62
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.009661
Std Dev 0.7484
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

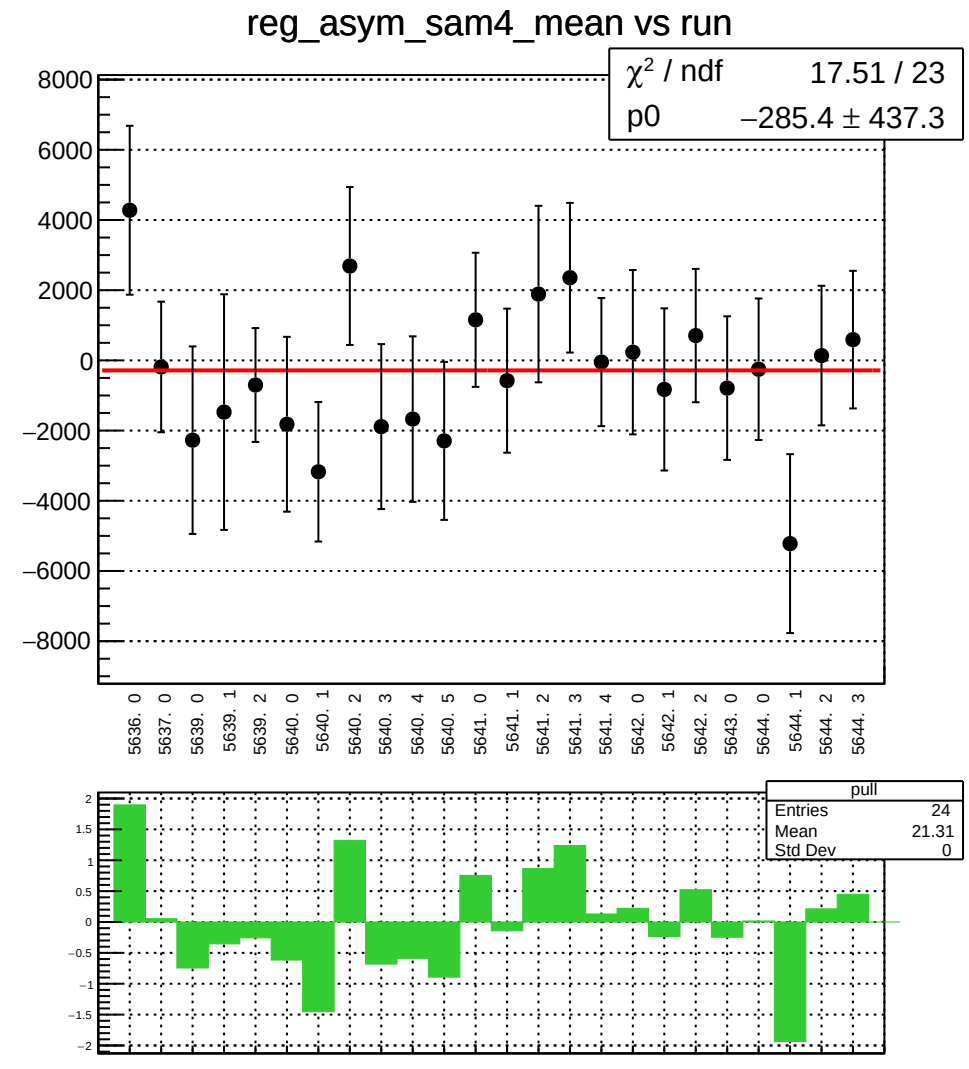

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.319e+04 / 23
p0 83.93 ± 0.1312
250
200
150
100
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

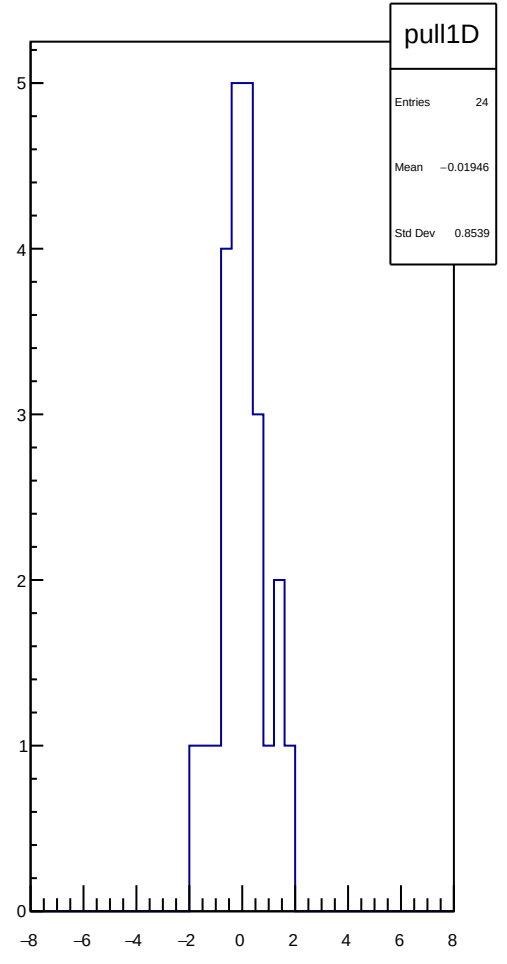

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 22.52 / 23
p0 4.951e−14 ± 2.326e−13
8
6
4
2
0
−2
−4
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

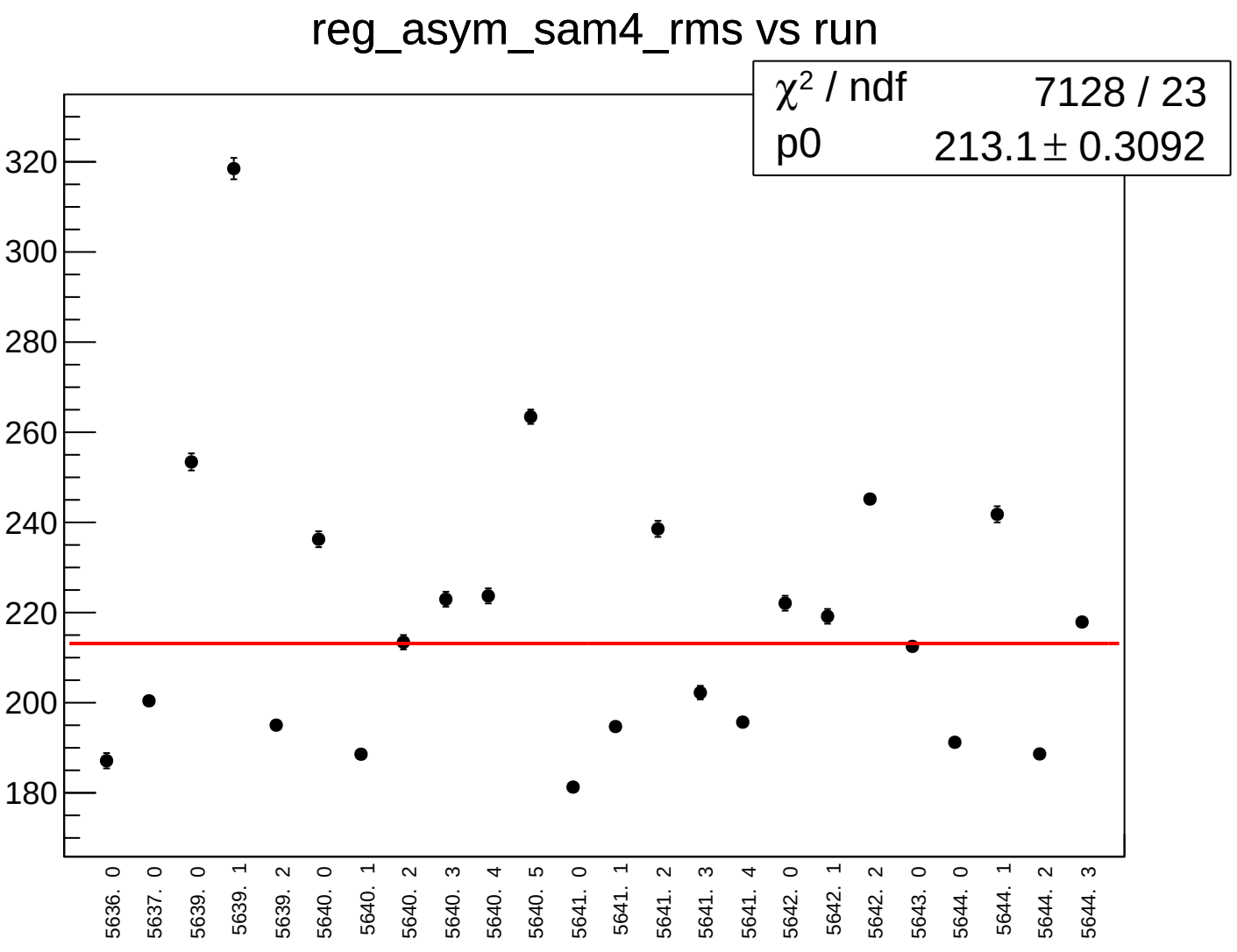

pull
Entries 24
Mean 12.44
Std Dev 8.94
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

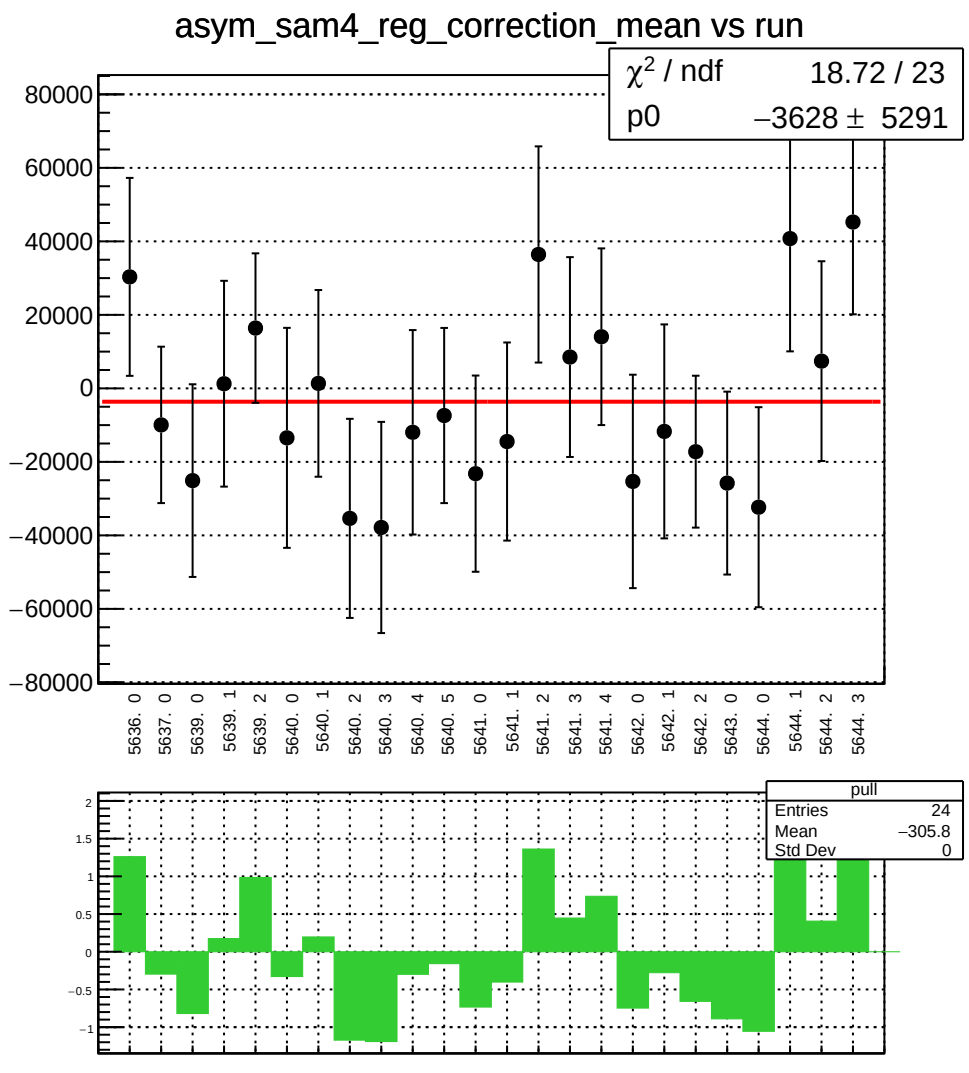

pull1D
Entries 24
Mean 0.0736
Std Dev 0.9659
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

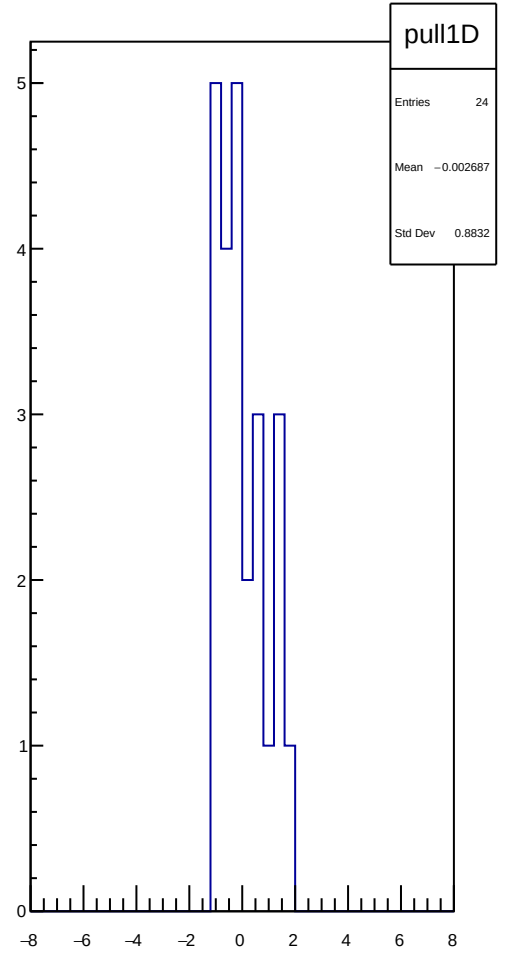

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.83e+04 / 23
p0 1.032e−10 ± 1.645e−13
0.3
0.25
0.2
0.15
0.1
0.05
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

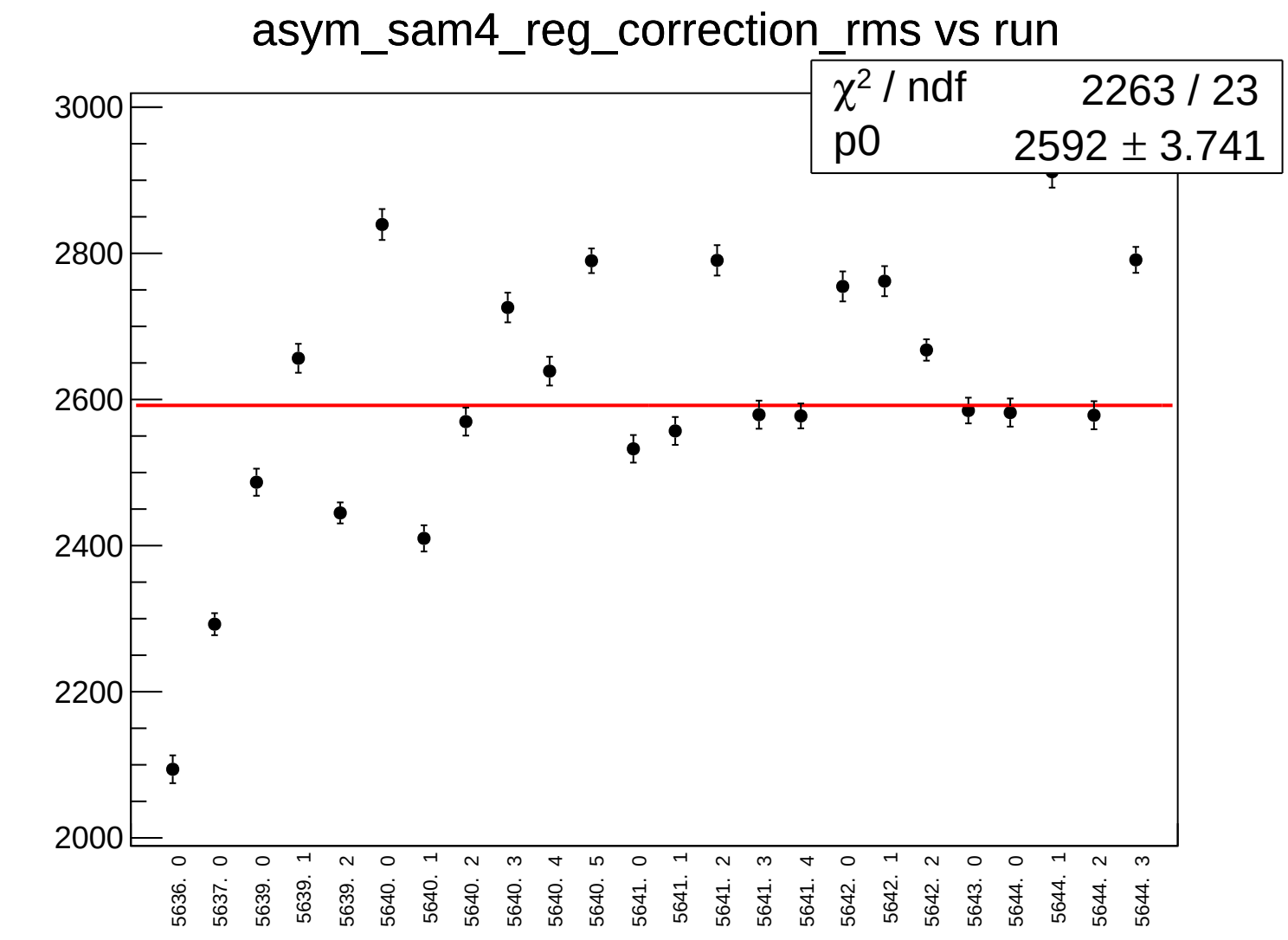

reg_asym_sam4_mean vs run
χ² / ndf 17.51 / 23
p0 −285.4 ± 437.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 21.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

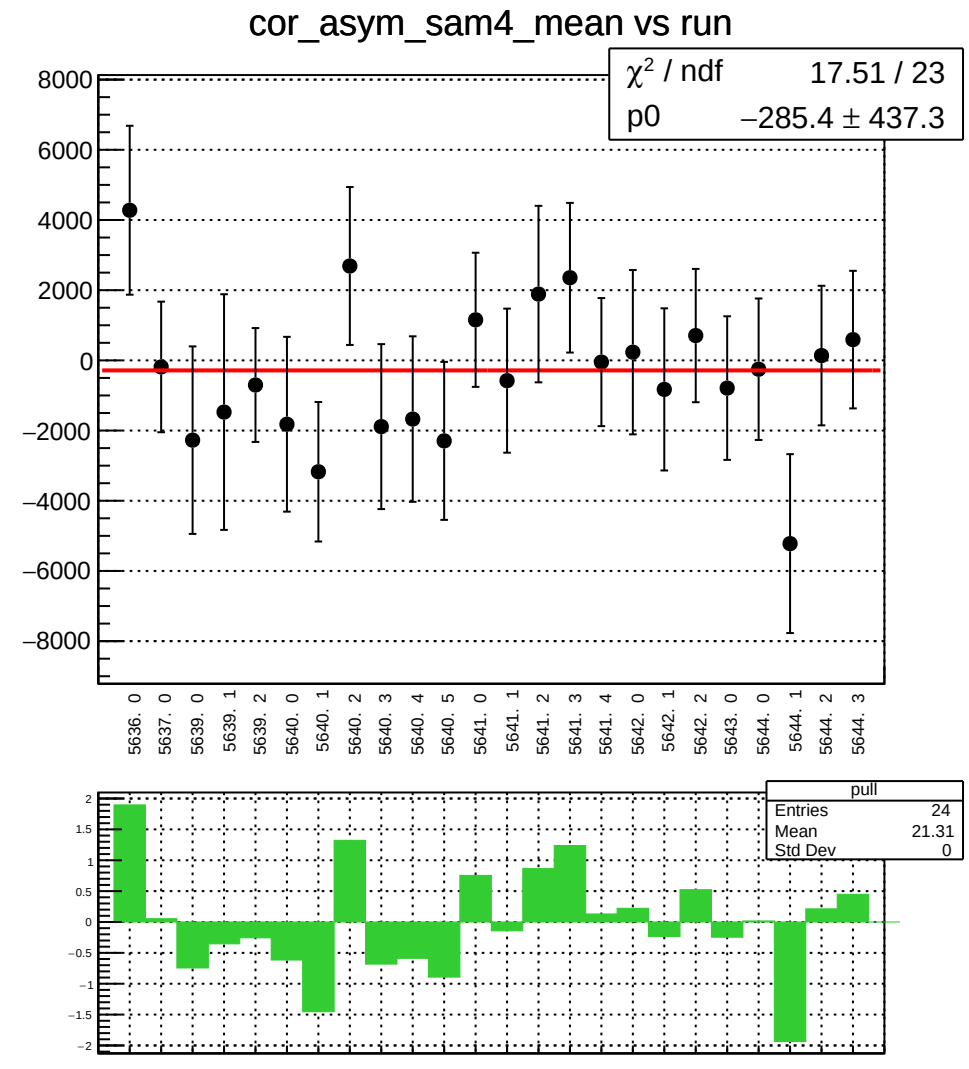

pull1D
Entries 24
Mean −0.01946
Std Dev 0.8539
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

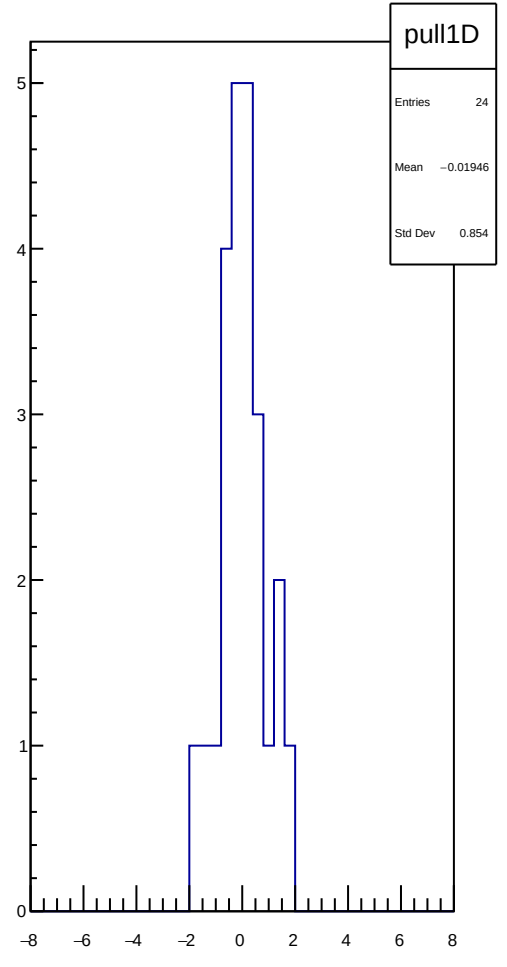

reg_asym_sam4_rms vs run
χ² / ndf 7128 / 23
p0 213.1 ± 0.3092
320
300
280
260
240
220
200
180
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

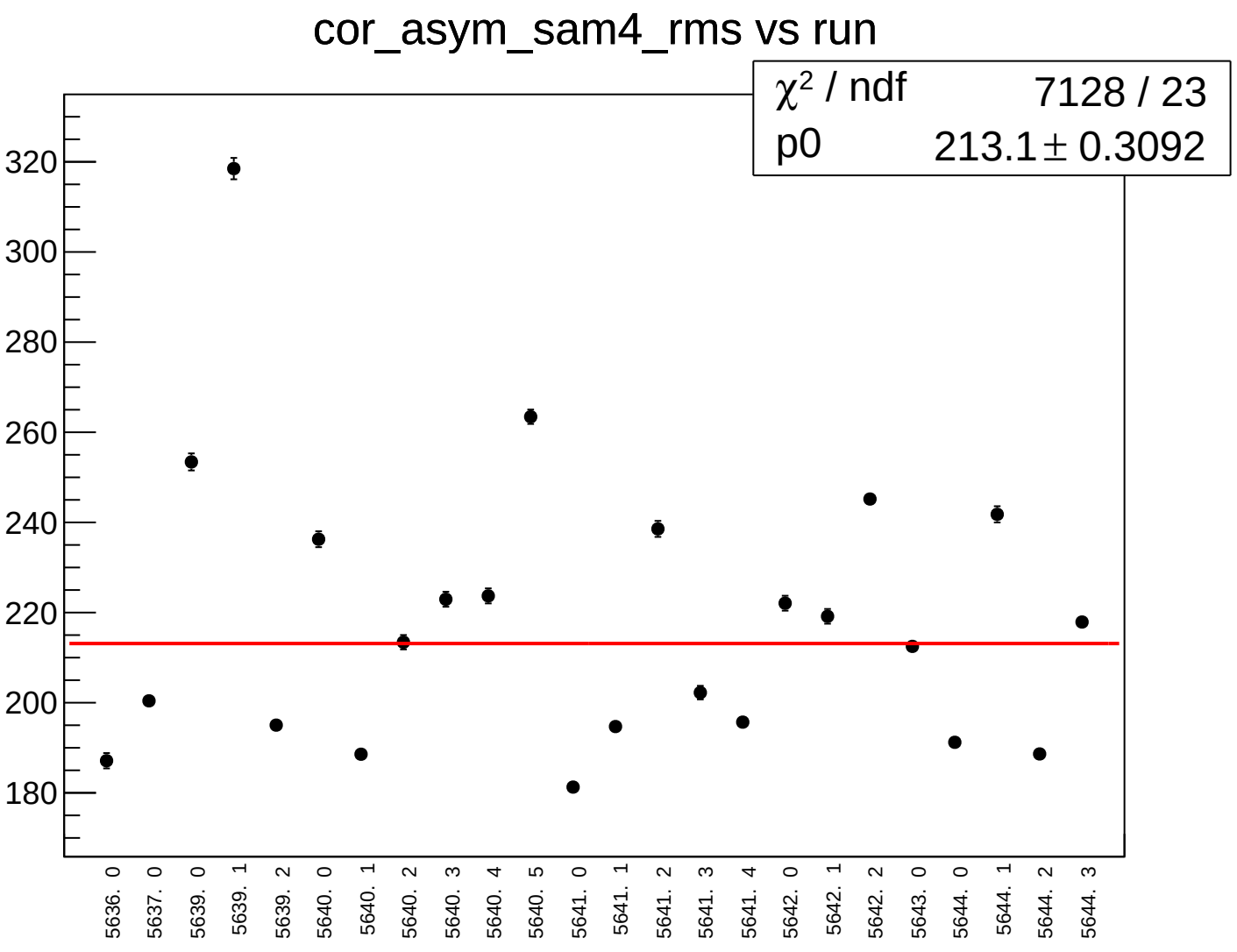

asym_sam4_reg_correction_mean vs run
χ² / ndf 18.72 / 23
p0 −3628 ± 5291
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −305.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 24
Mean −0.002687
Std Dev 0.8832
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam4_reg_correction_rms vs run
χ² / ndf 2263 / 23
p0 2592 ± 3.741
3000
2800
2600
2400
2200
2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


cor_asym_sam4_mean vs run
χ² / ndf 17.51 / 23
p0 −285.4 ± 437.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 21.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.01946
Std Dev 0.854
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam4_rms vs run
χ² / ndf 7128 / 23
p0 213.1 ± 0.3092
320
300
280
260
240
220
200
180
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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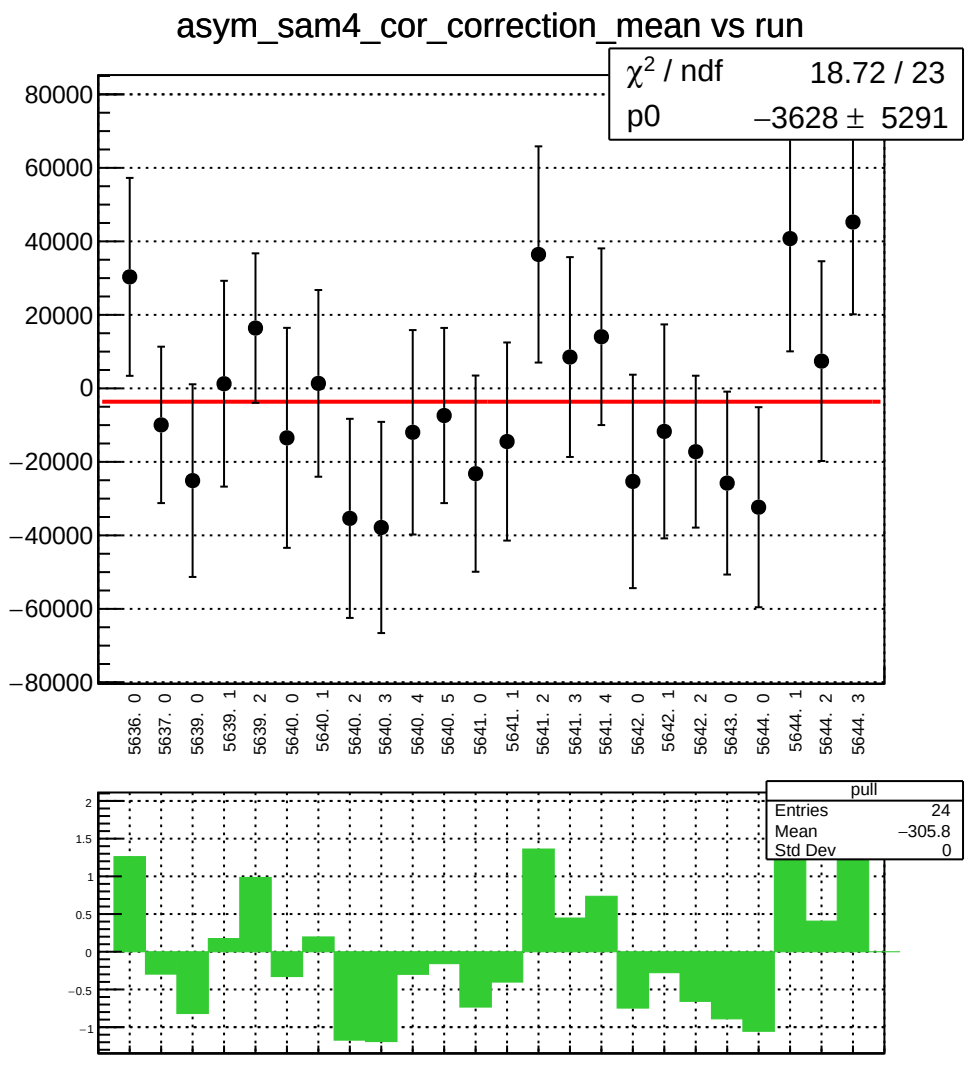
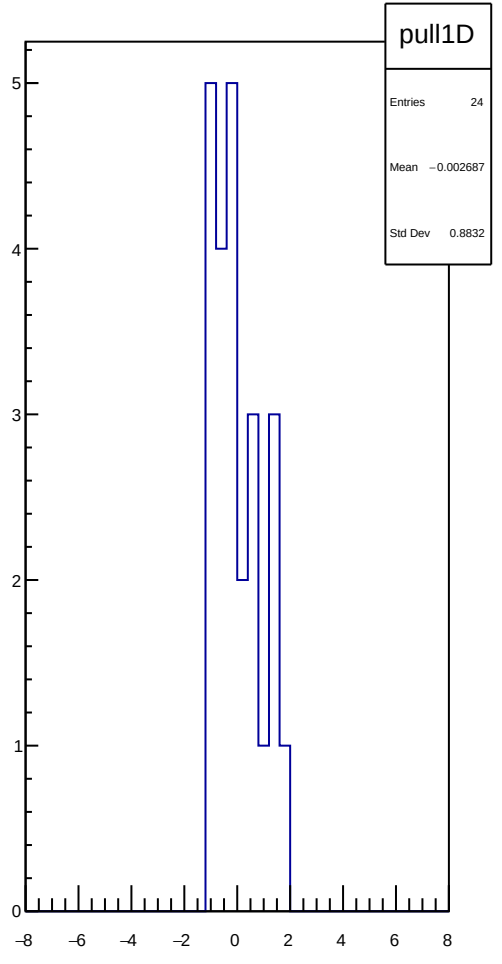
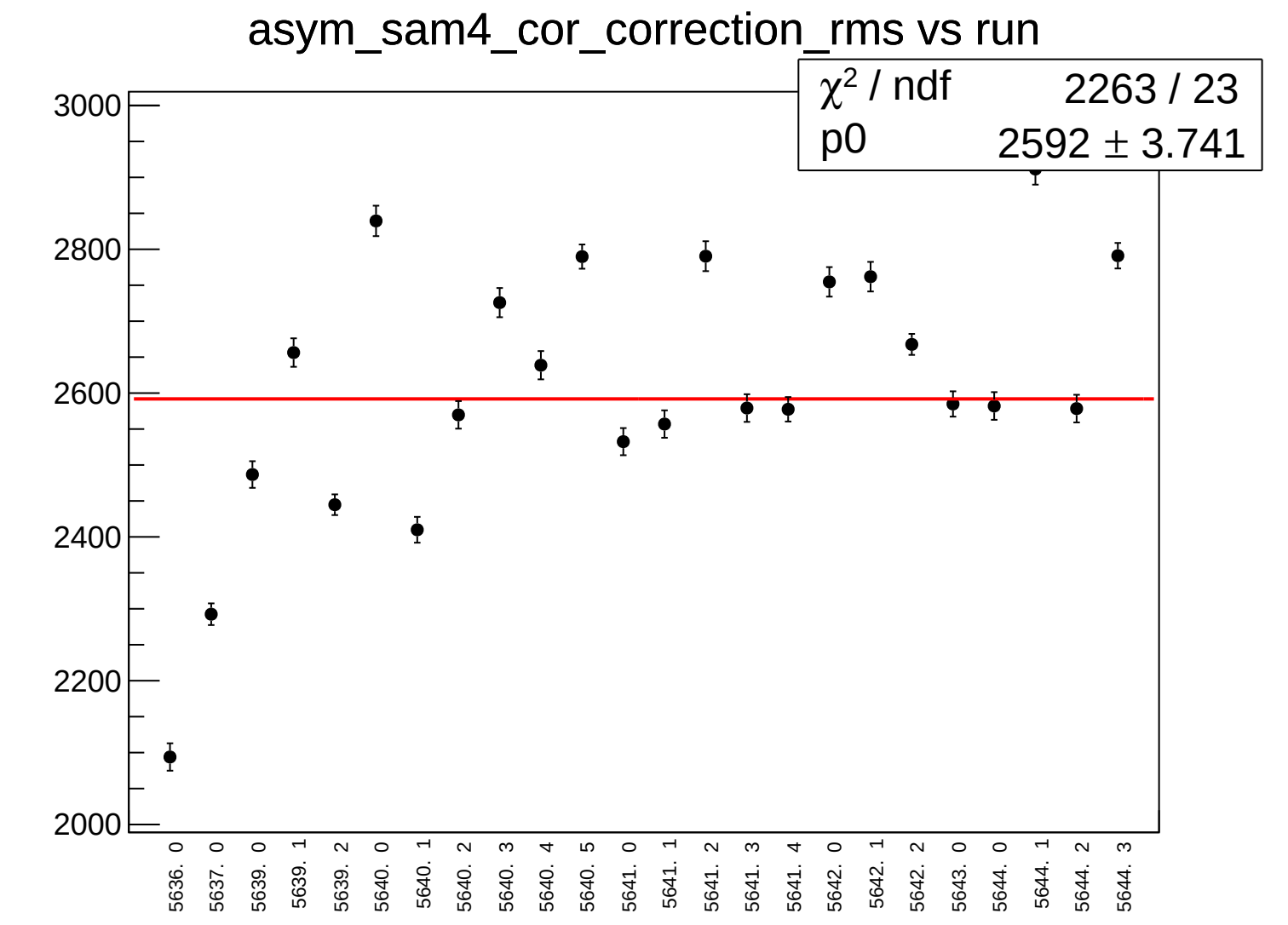
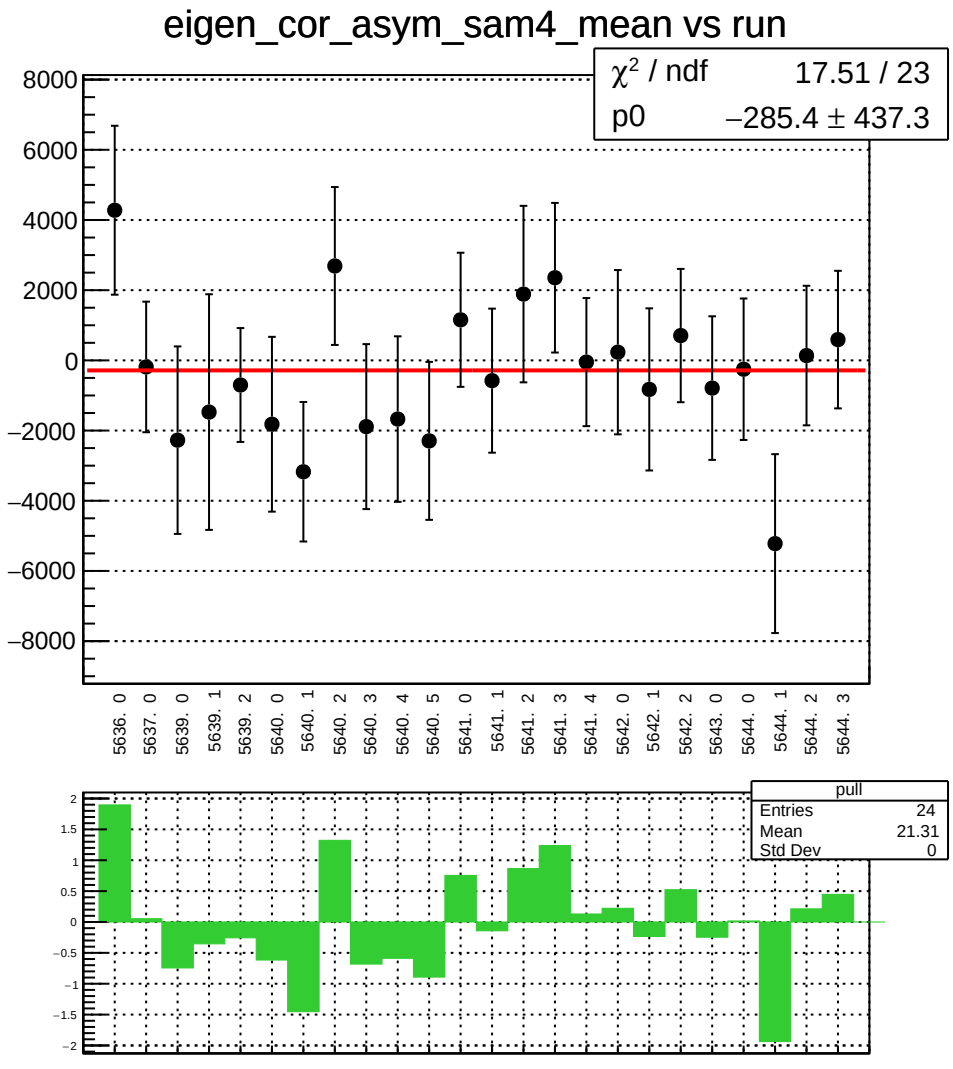
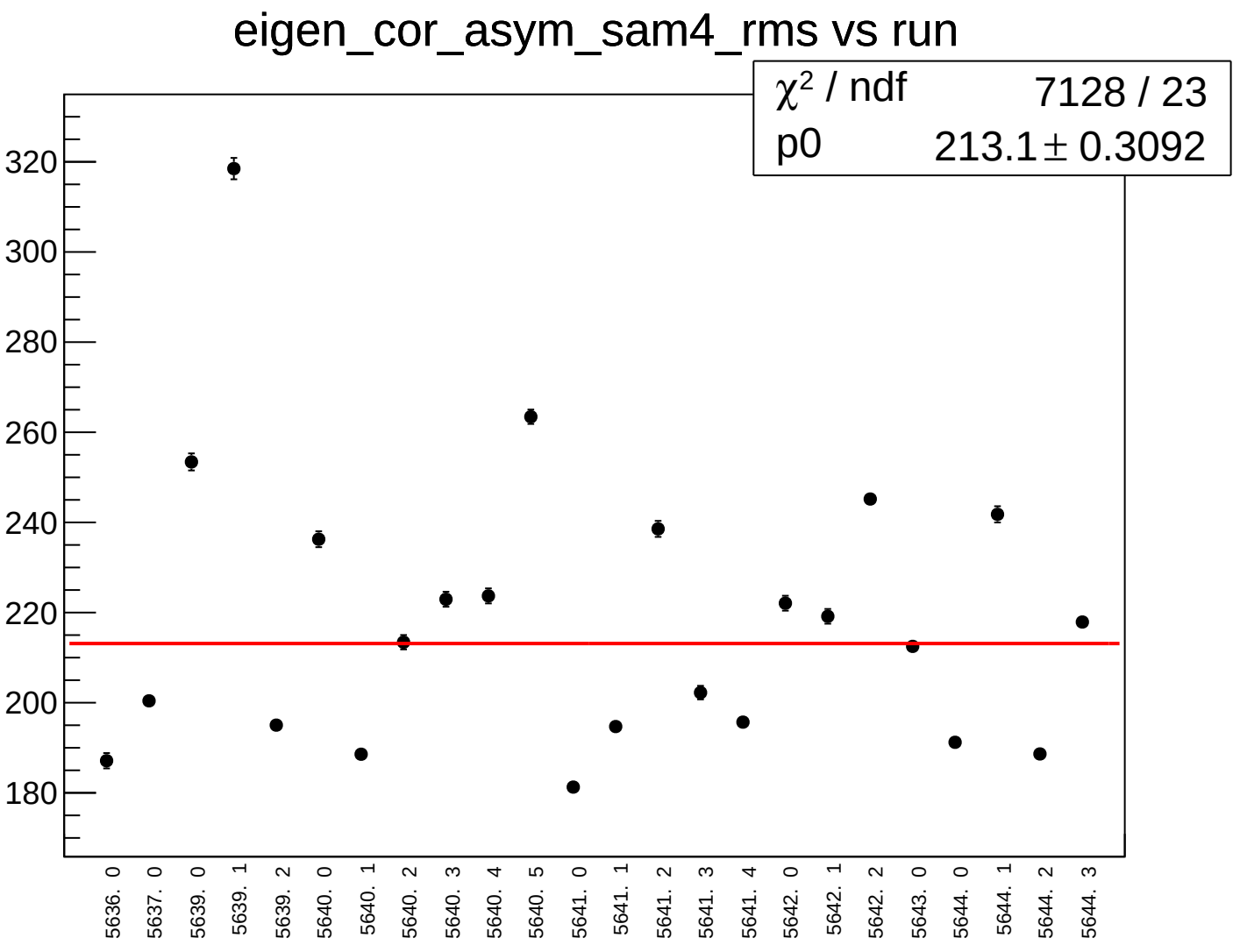
5644. 2
5644. 3

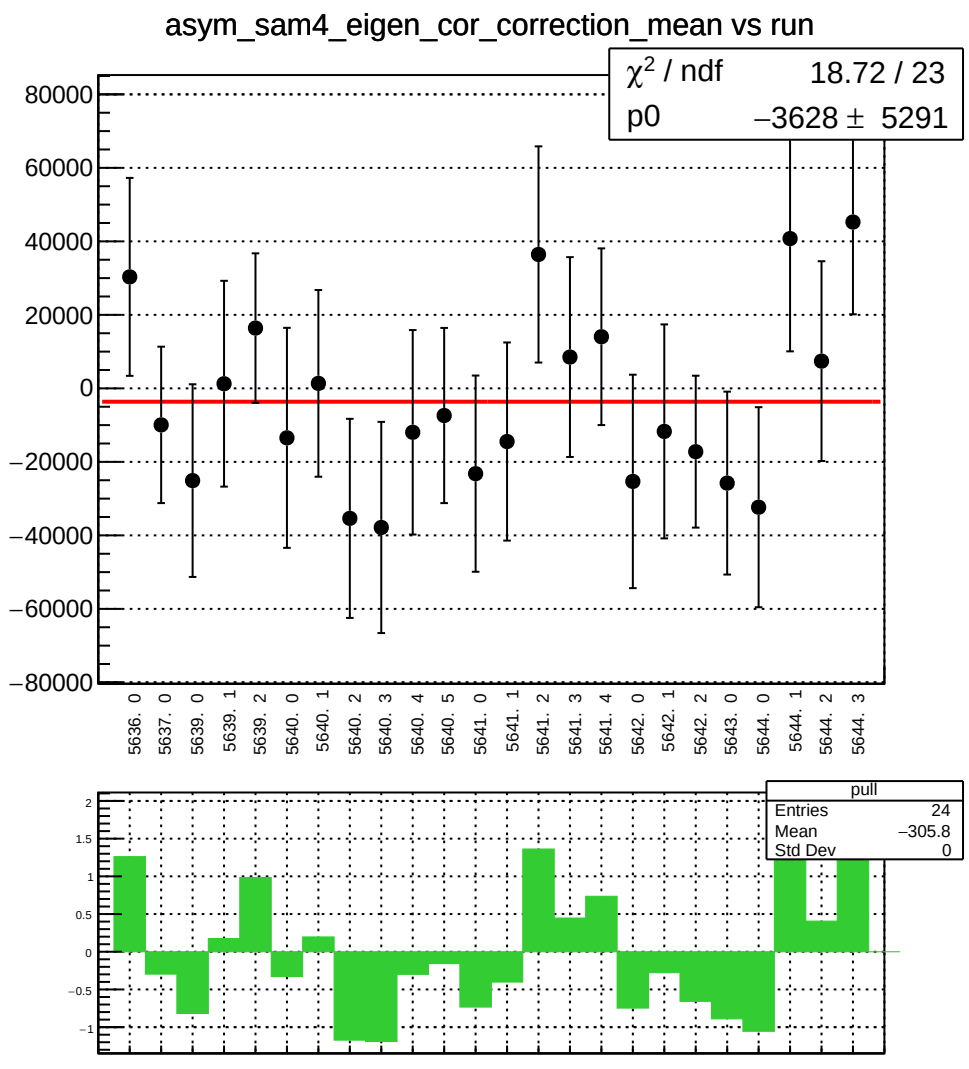

asym_sam4_cor_correction_mean vs run
χ² / ndf 18.72 / 23
p0 −3628 ± 5291
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −305.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

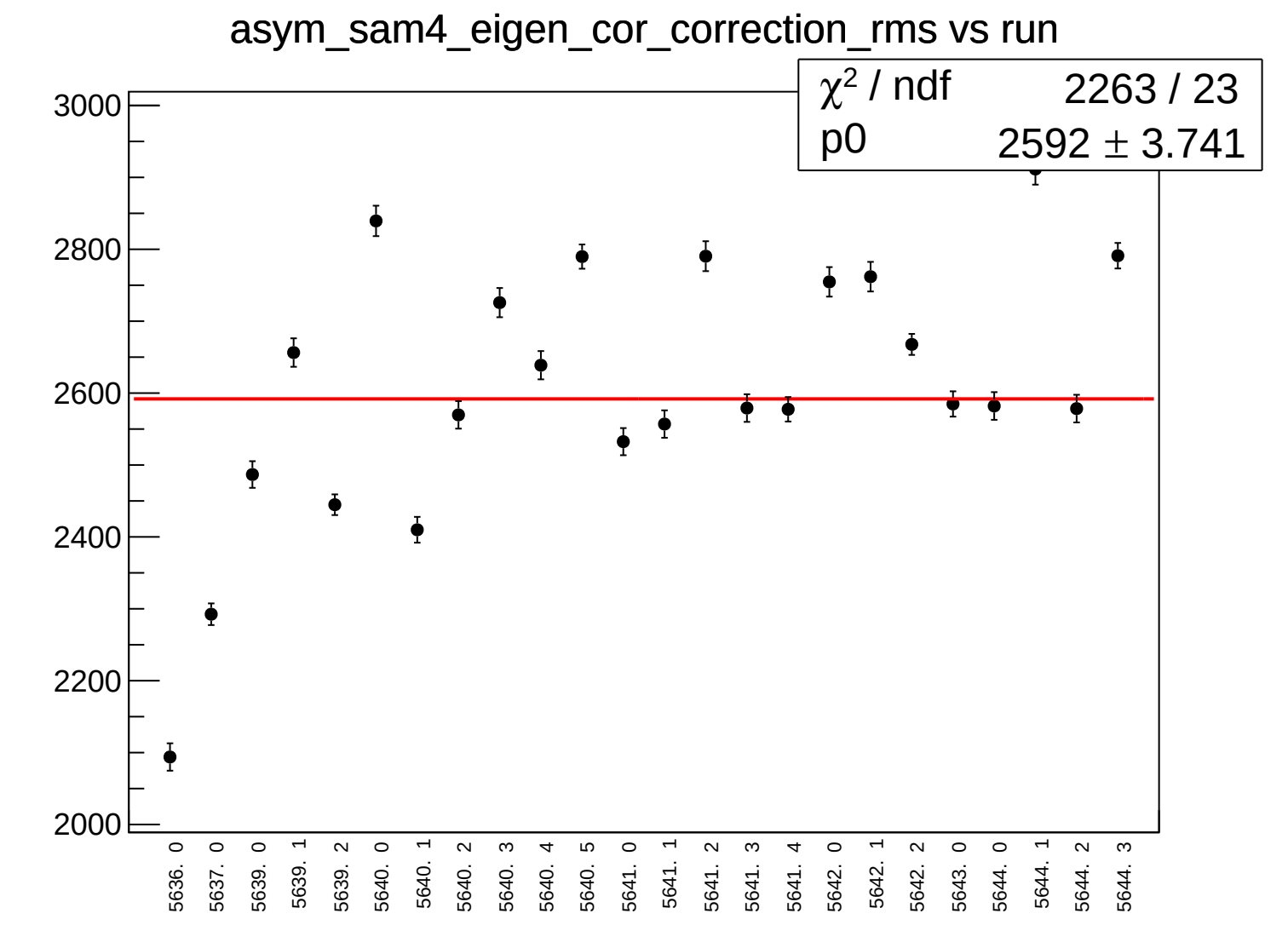

pull1D
Entries 24
Mean −0.002687
Std Dev 0.8832
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam4_cor_correction_rms vs run
χ² / ndf 2263 / 23
p0 2592 ± 3.741
3000
2800
2600
2400
2200
2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_cor_asym_sam4_mean vs run
χ² / ndf 17.51 / 23
p0 −285.4 ± 437.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 21.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.01946
Std Dev 0.854
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam4_rms vs run
χ² / ndf 7128 / 23
p0 213.1 ± 0.3092
320
300
280
260
240
220
200
180
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam4_eigen_cor_correction_mean vs run
χ² / ndf 18.72 / 23
p0 −3628 ± 5291
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −305.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.002687
Std Dev 0.8832
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 2263 / 23
p0 2592 ± 3.741
3000
2800
2600
2400
2200
2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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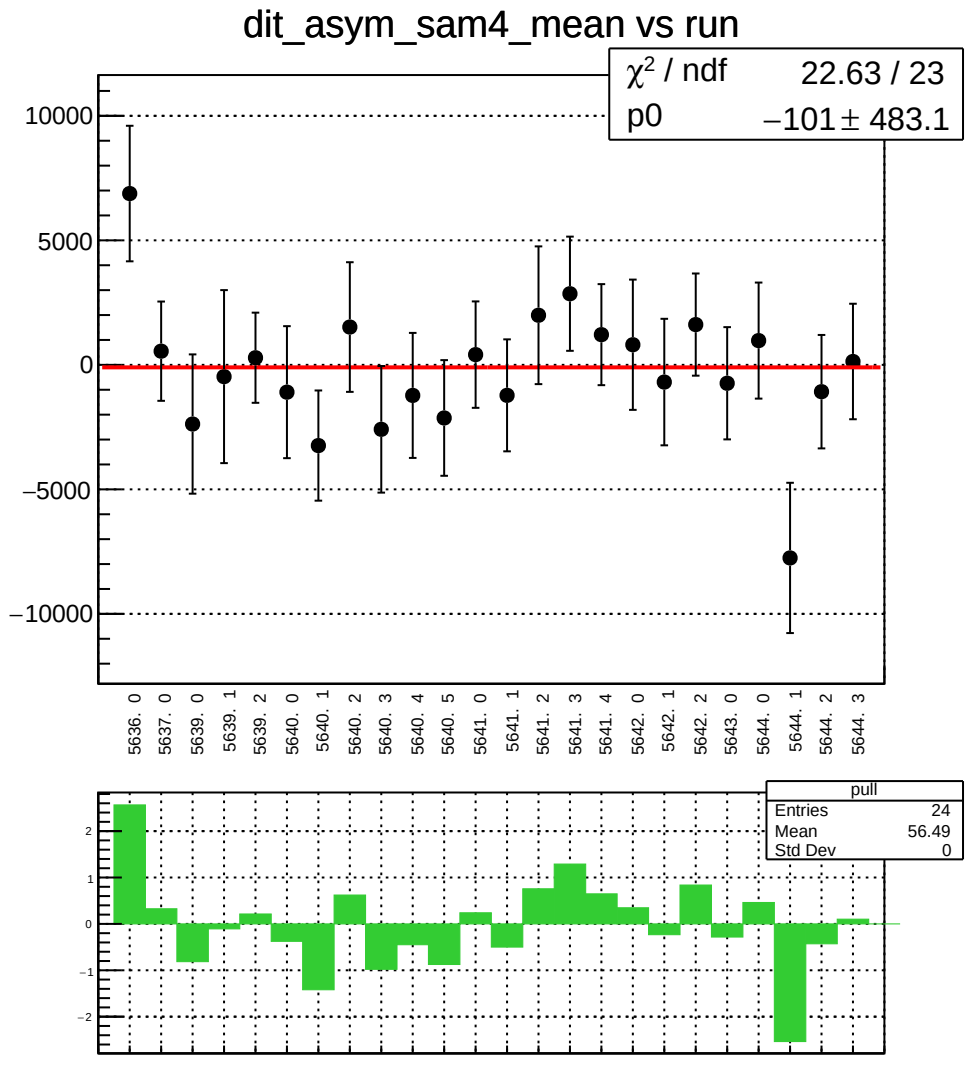
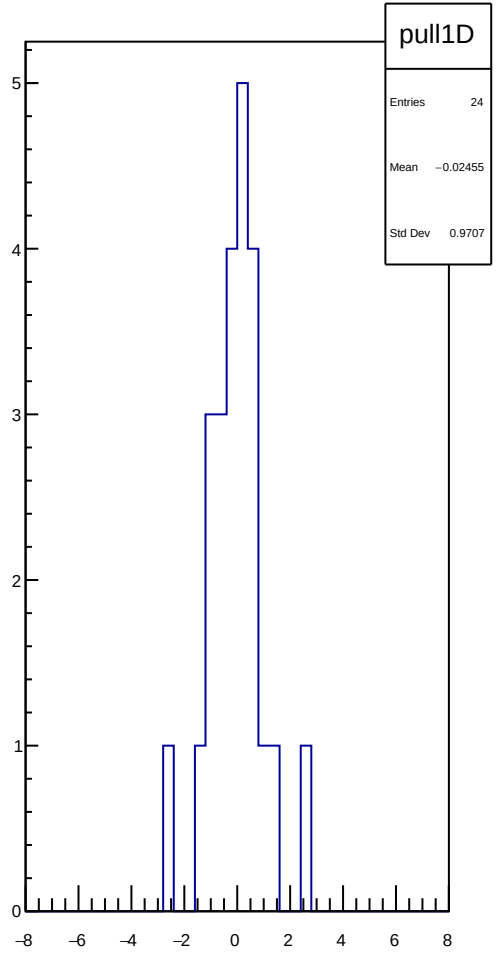
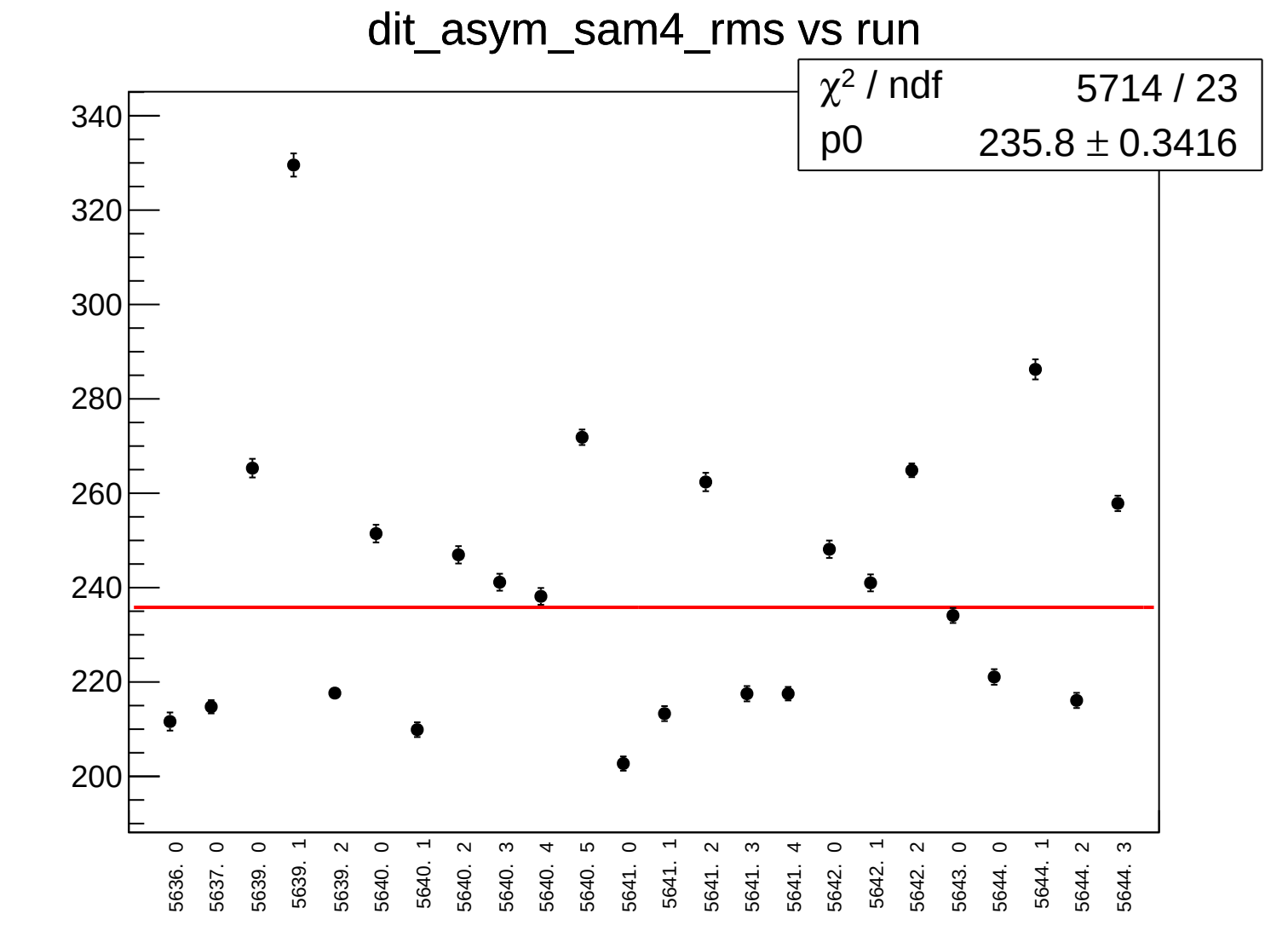
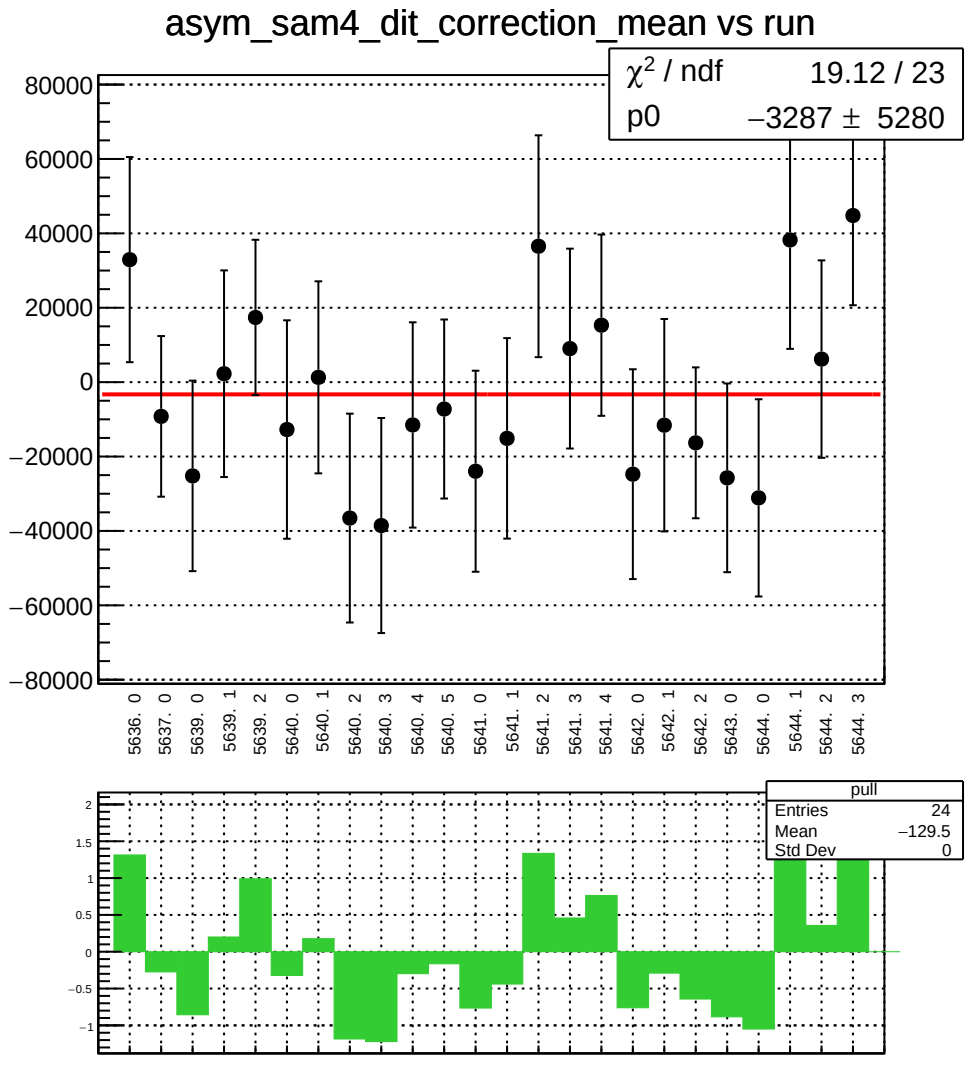
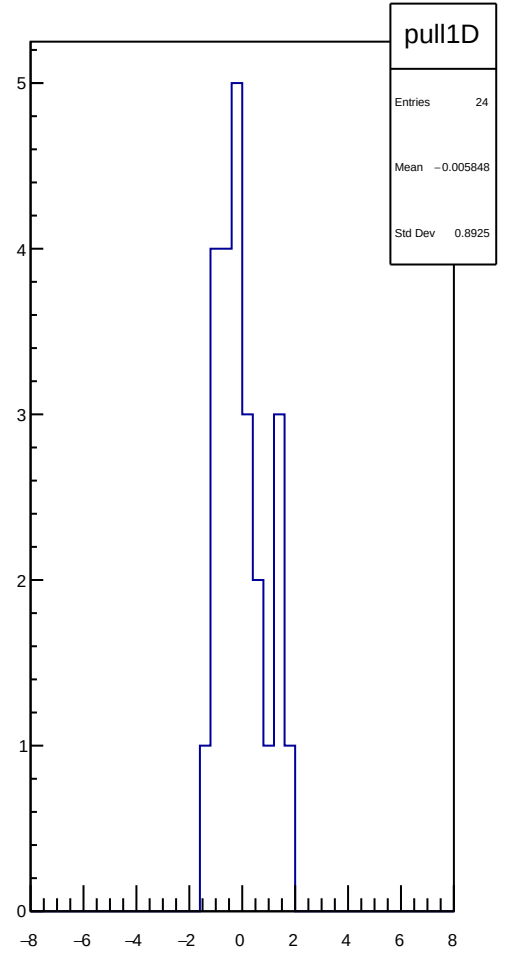
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

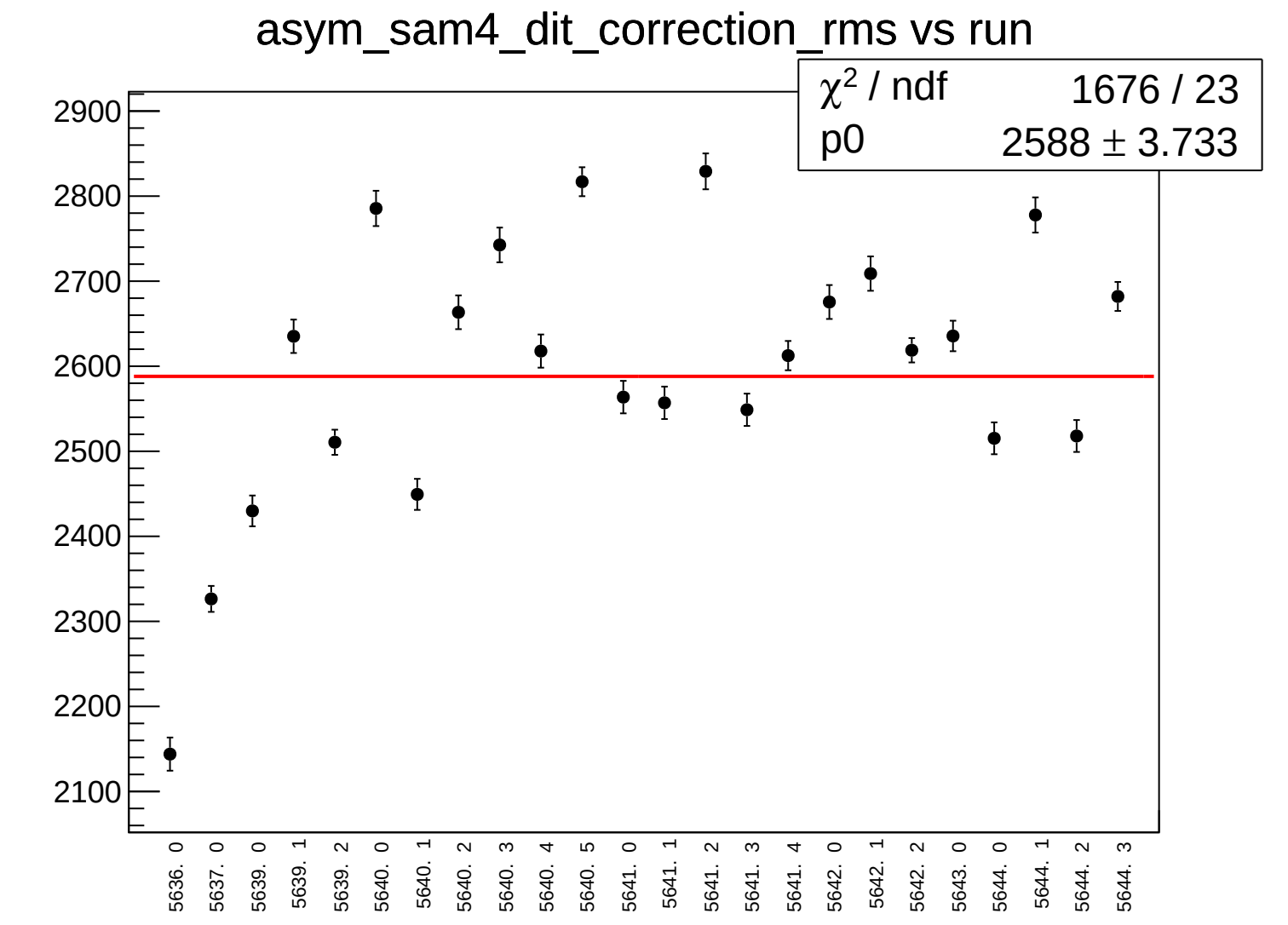

dit_asym_sam4_mean vs run
χ² / ndf 22.63 / 23
p0 −101 ± 483.1
10000
5000
0
−5000
−10000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 56.49
Std Dev 0
2
1
0
−1
−2

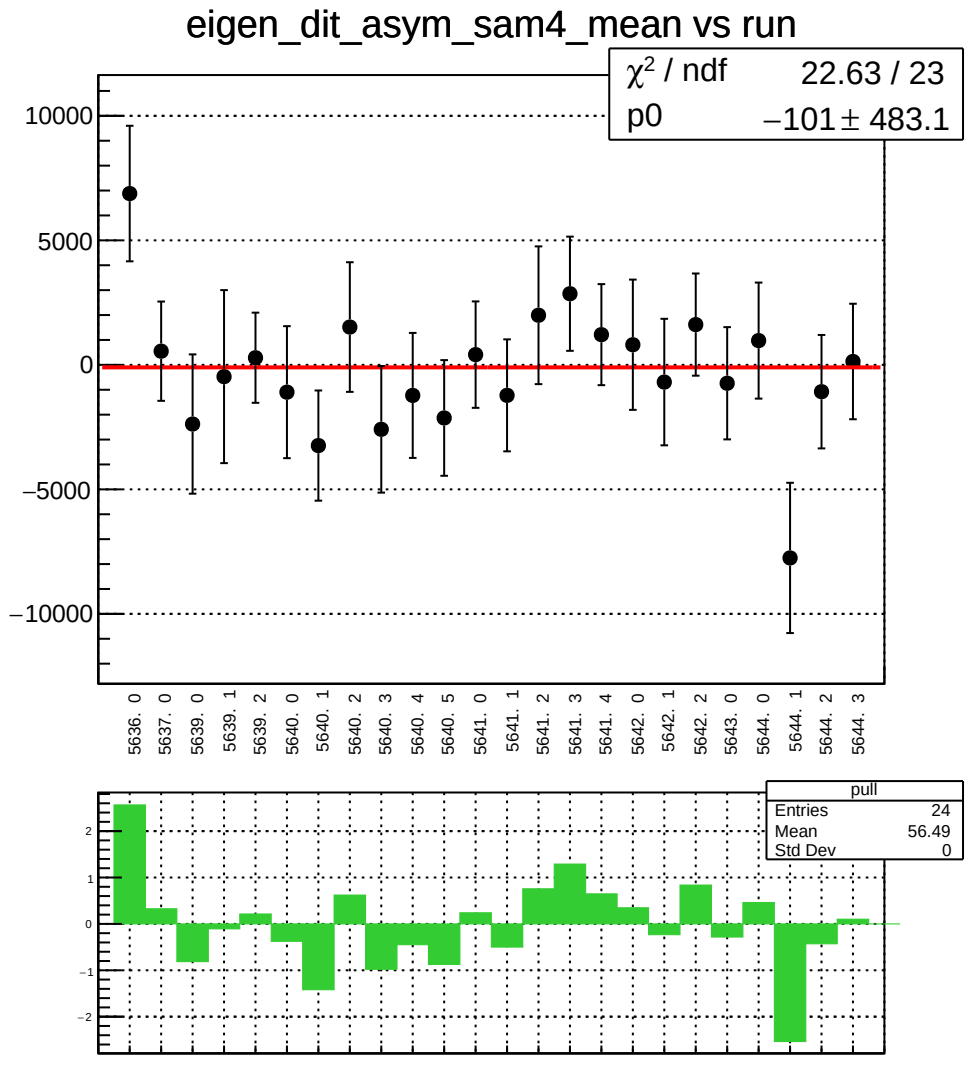

pull1D
Entries 24
Mean −0.02455
Std Dev 0.9707
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

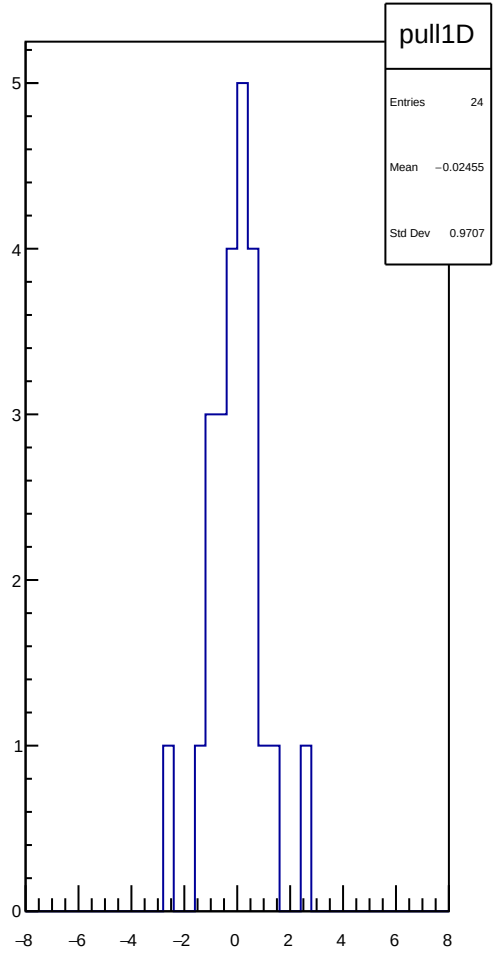

dit_asym_sam4_rms vs run
χ² / ndf 5714 / 23
p0 235.8 ± 0.3416
340
320
300
280
260
240
220
200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

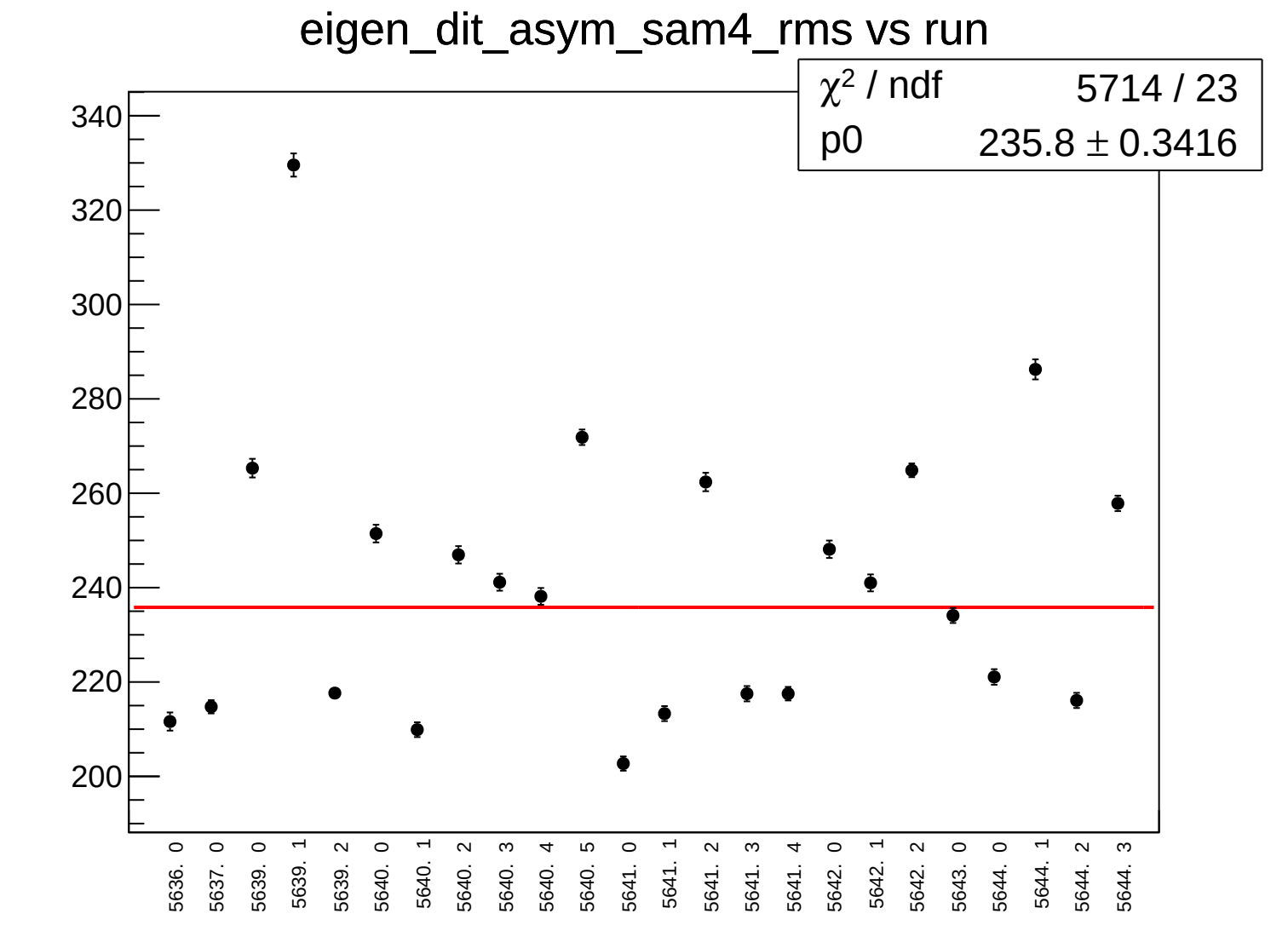

asym_sam4_dit_correction_mean vs run
χ² / ndf 19.12 / 23
p0 −3287 ± 5280
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −129.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 24
Mean −0.005848
Std Dev 0.8925
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam4_dit_correction_rms vs run
χ² / ndf 1676 / 23
p0 2588 ± 3.733
2900
2800
2700
2600
2500
2400
2300
2200
2100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_dit_asym_sam4_mean vs run
χ² / ndf 22.63 / 23
p0 −101 ± 483.1
10000
5000
0
−5000
−10000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 56.49
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 24
Mean −0.02455
Std Dev 0.9707
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam4_rms vs run
χ² / ndf 5714 / 23
p0 235.8 ± 0.3416
340
320
300
280
260
240
220
200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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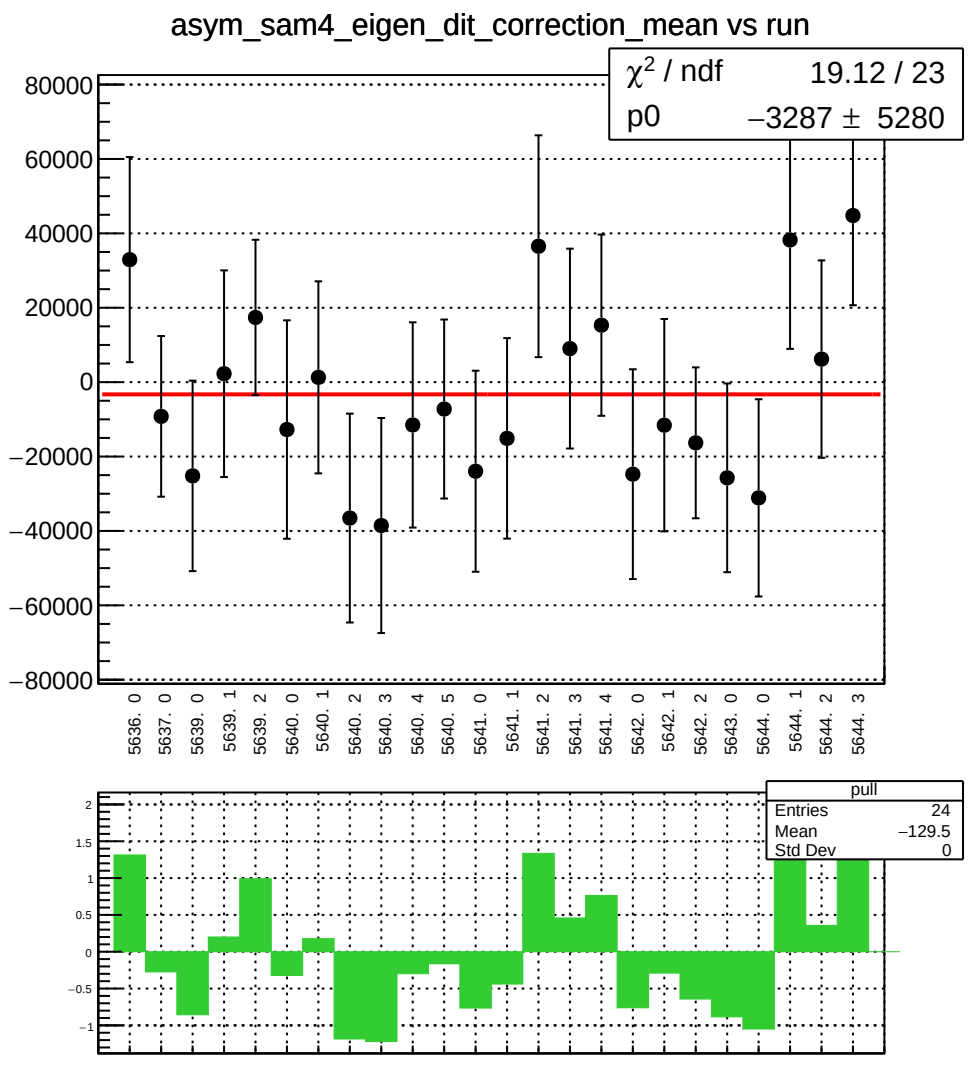
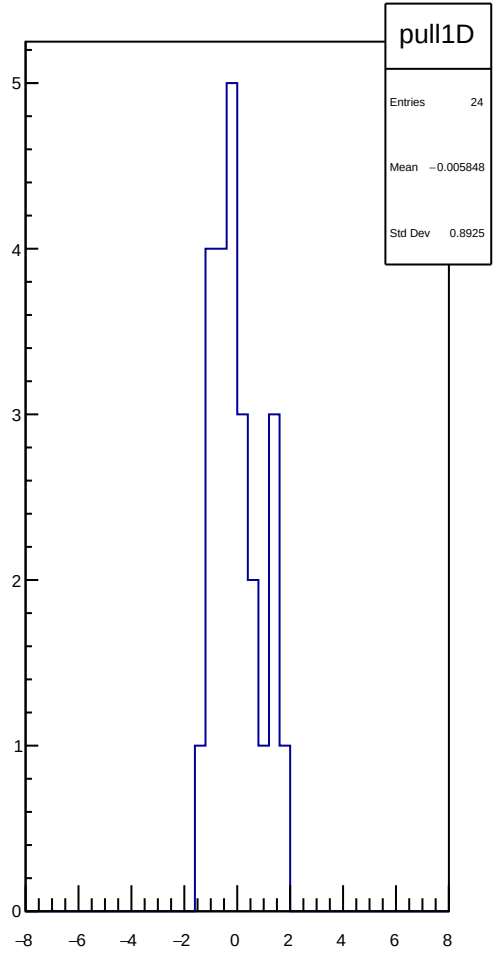
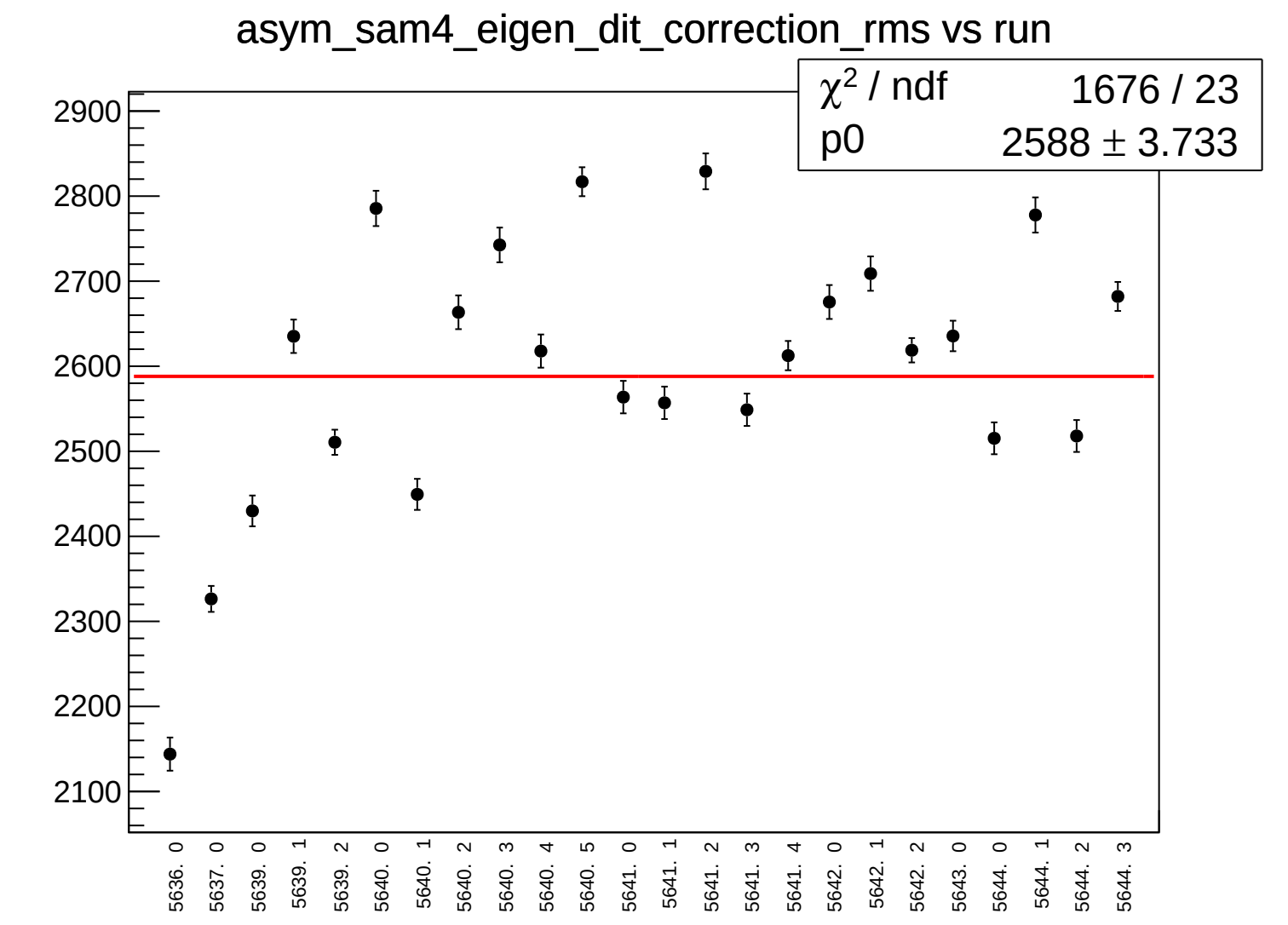
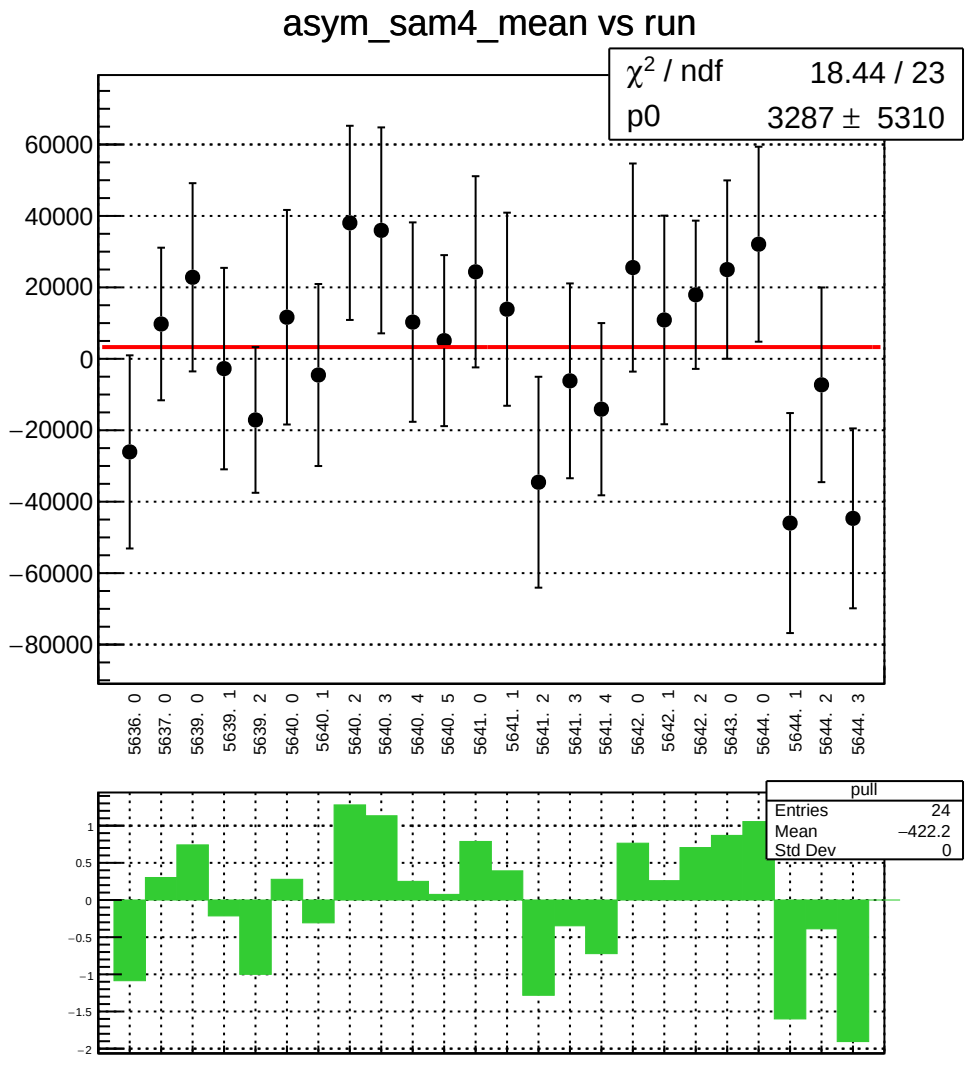
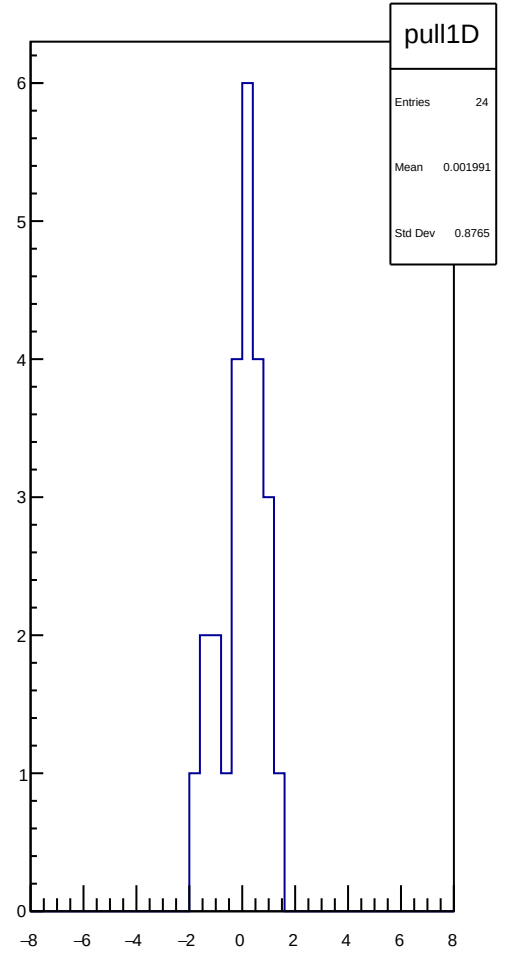
5644. 2
5644. 3

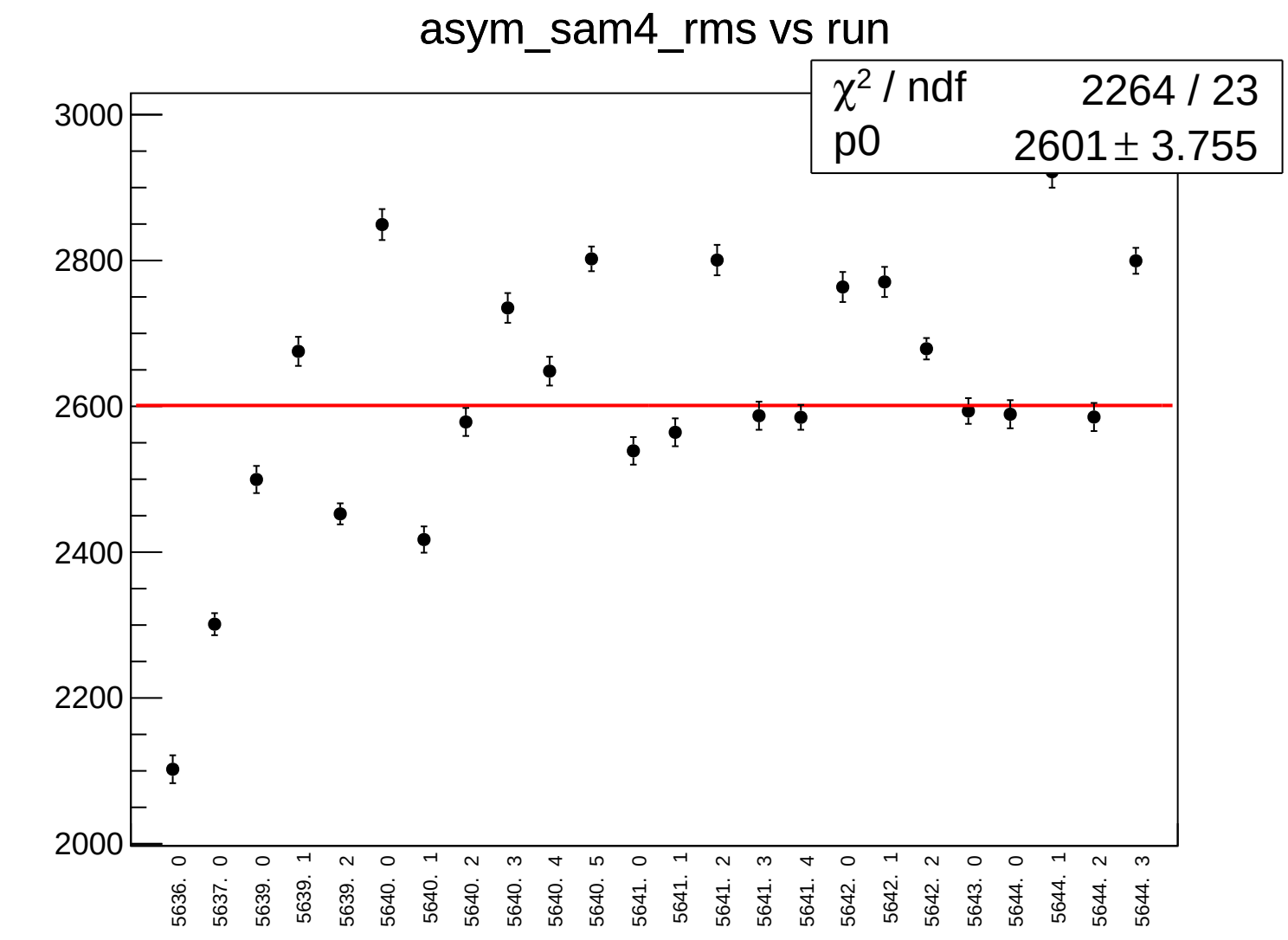

asym_sam4_eigen_dit_correction_mean vs run
χ² / ndf 19.12 / 23
p0 −3287 ± 5280
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −129.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

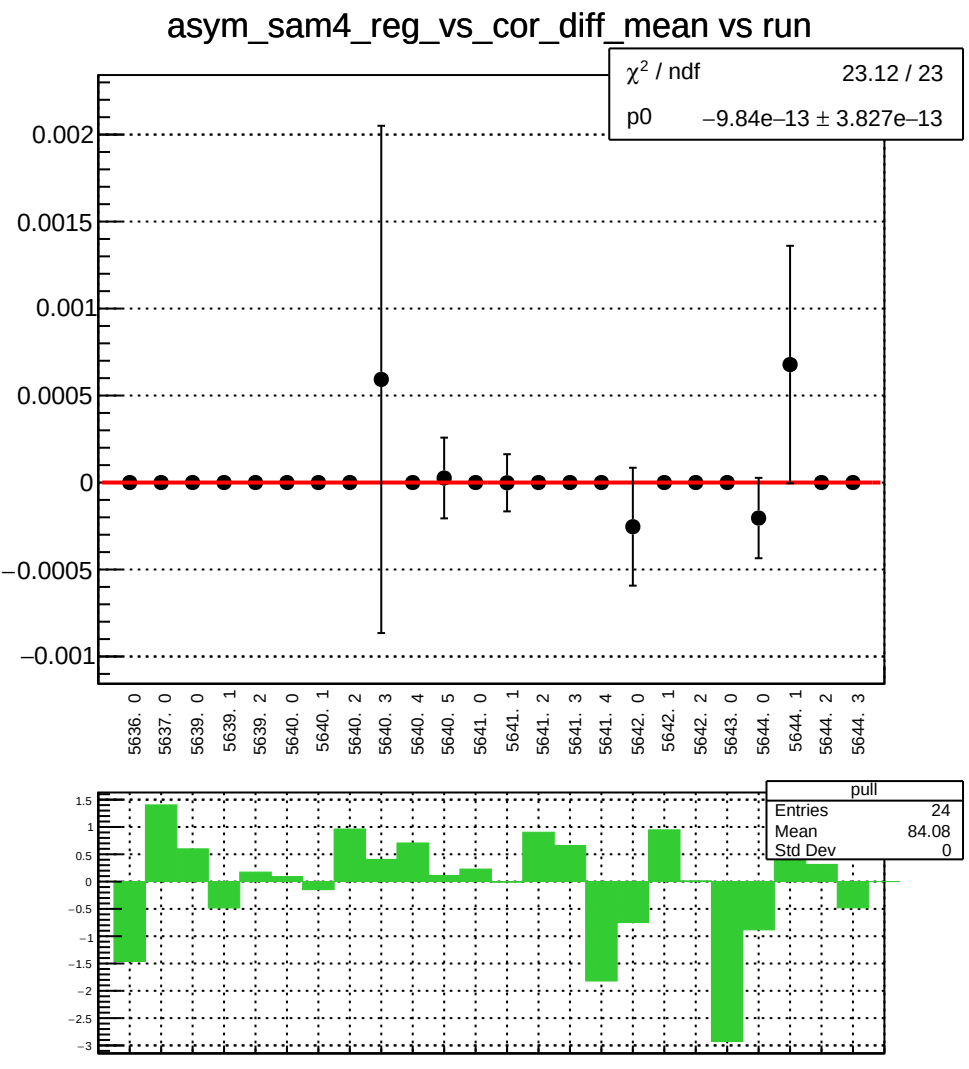

pull1D
Entries 24
Mean −0.005848
Std Dev 0.8925
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

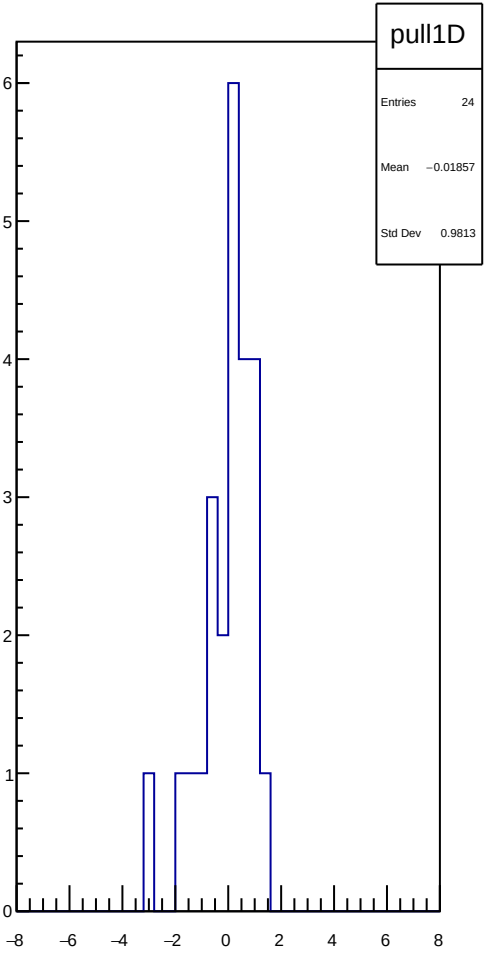

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 1676 / 23
p0 2588 ± 3.733
2900
2800
2700
2600
2500
2400
2300
2200
2100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

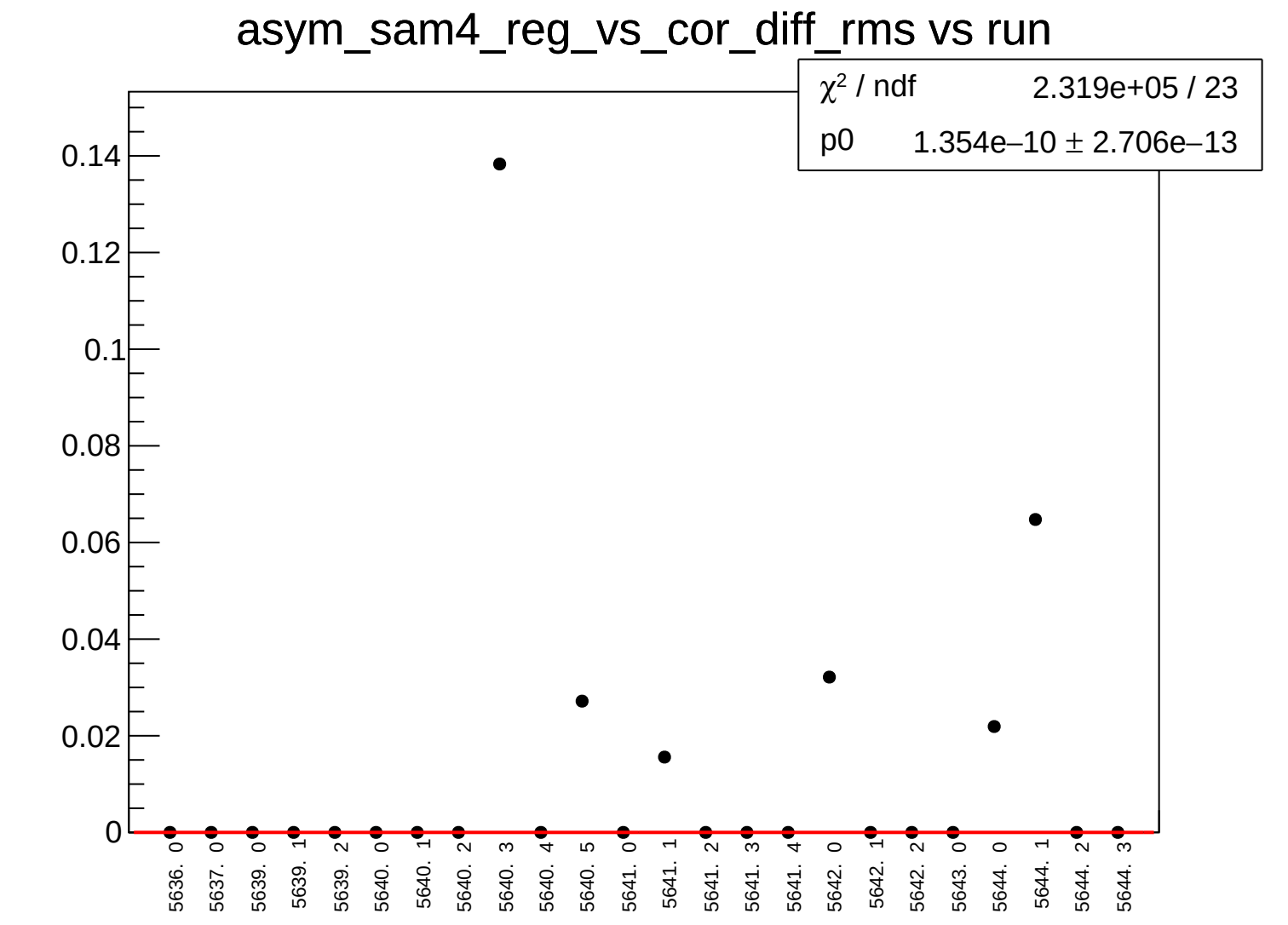

asym_sam4_mean vs run
χ² / ndf 18.44 / 23
p0 3287 ± 5310
60000
40000
20000
0
−20000
−40000
−60000
−80000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −422.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

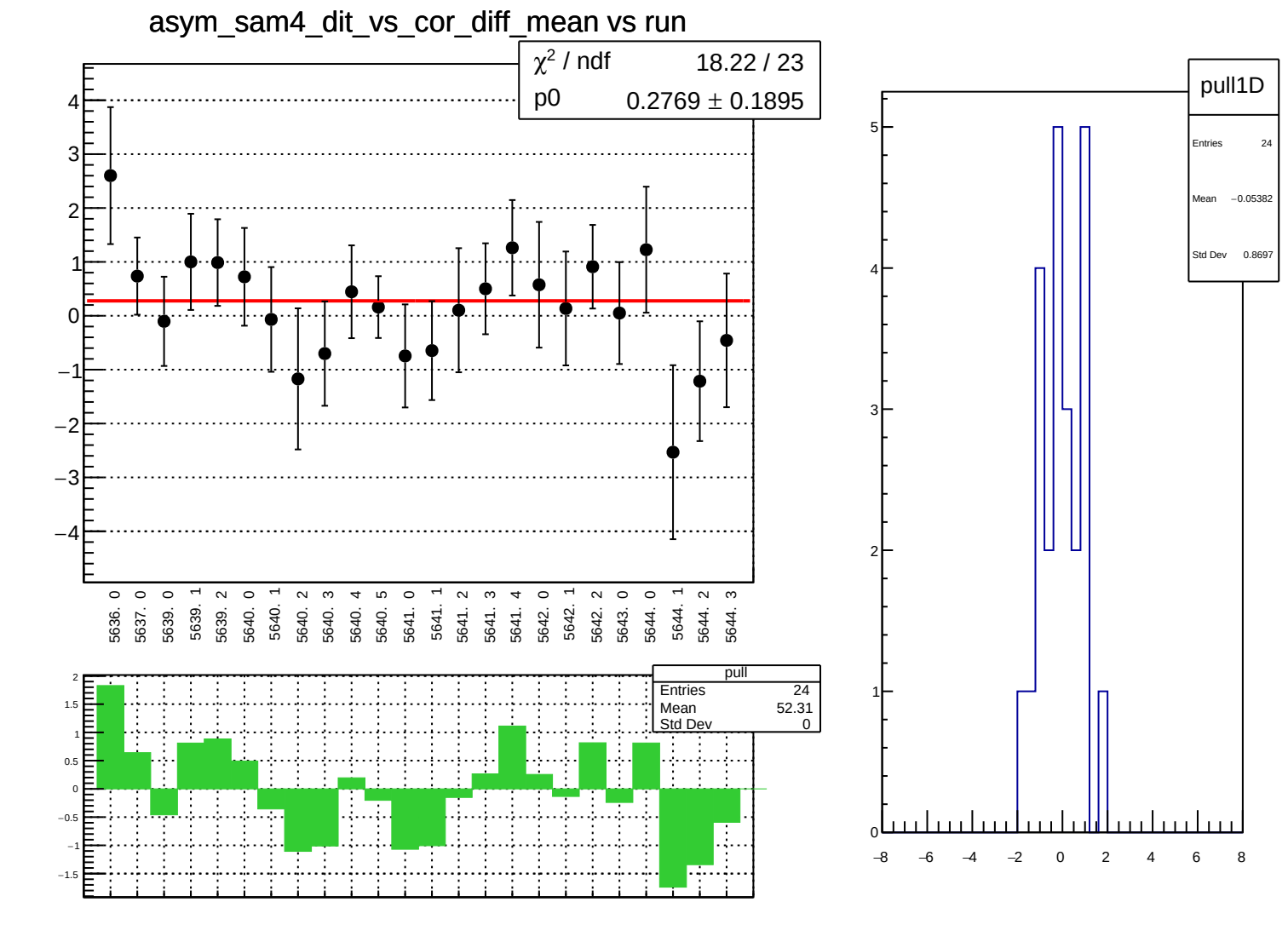

pull1D
Entries 24
Mean 0.001991
Std Dev 0.8765
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

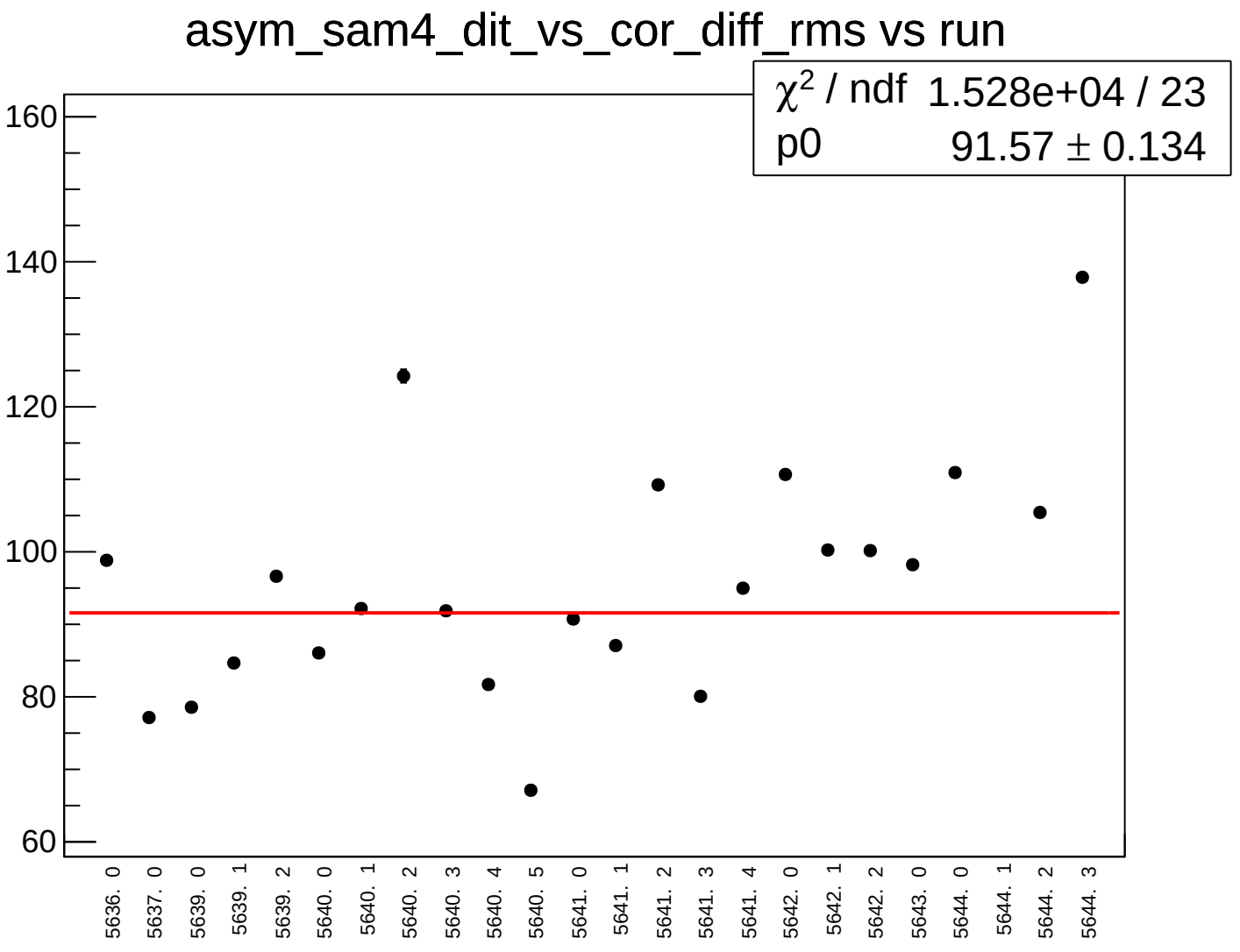

asym_sam4_rms vs run
χ² / ndf 2264 / 23
p0 2601 ± 3.755
3000
2800
2600
2400
2200
2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

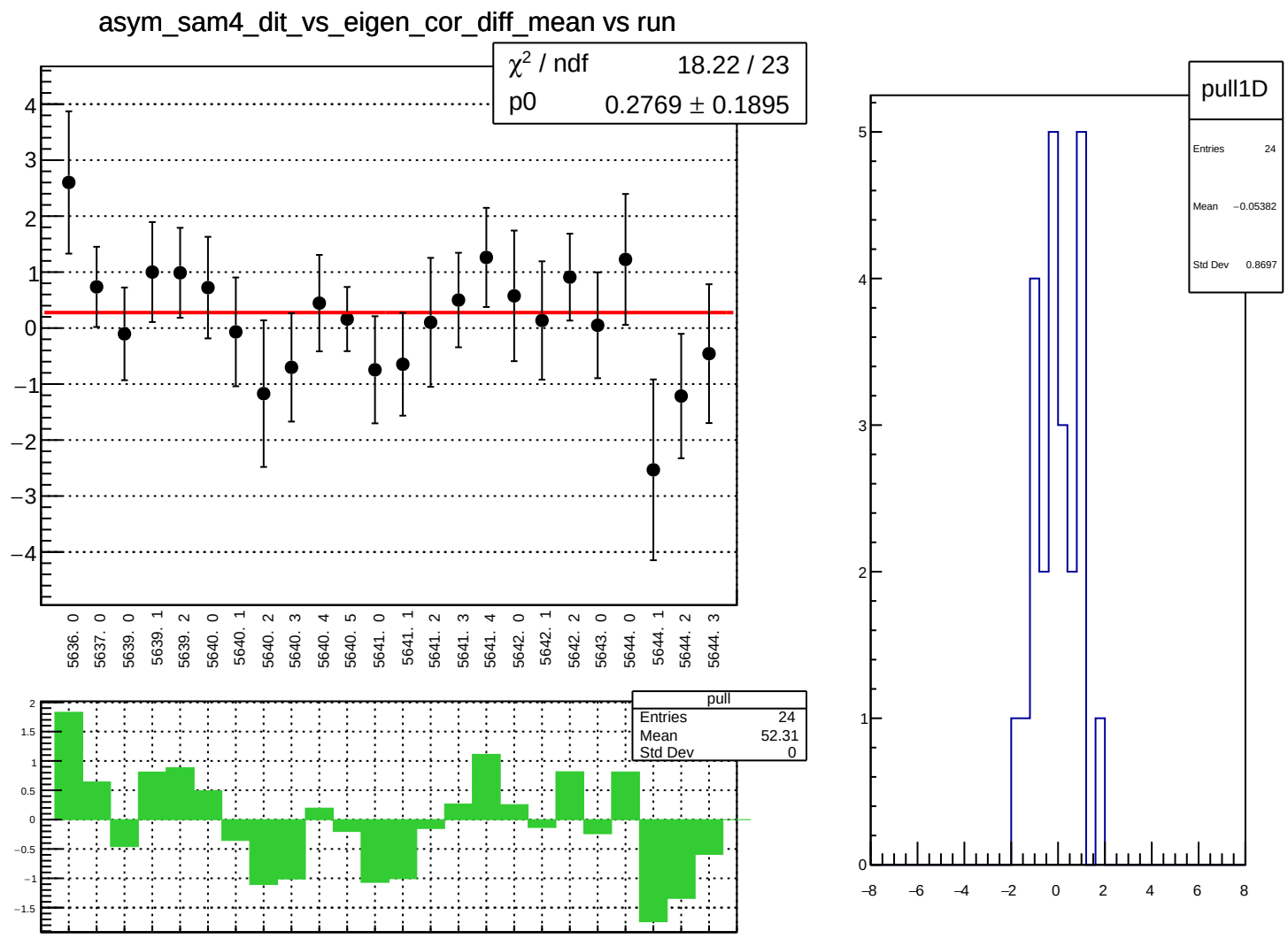

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 23.12 / 23
p0 −9.84e−13 ± 3.827e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 84.08
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

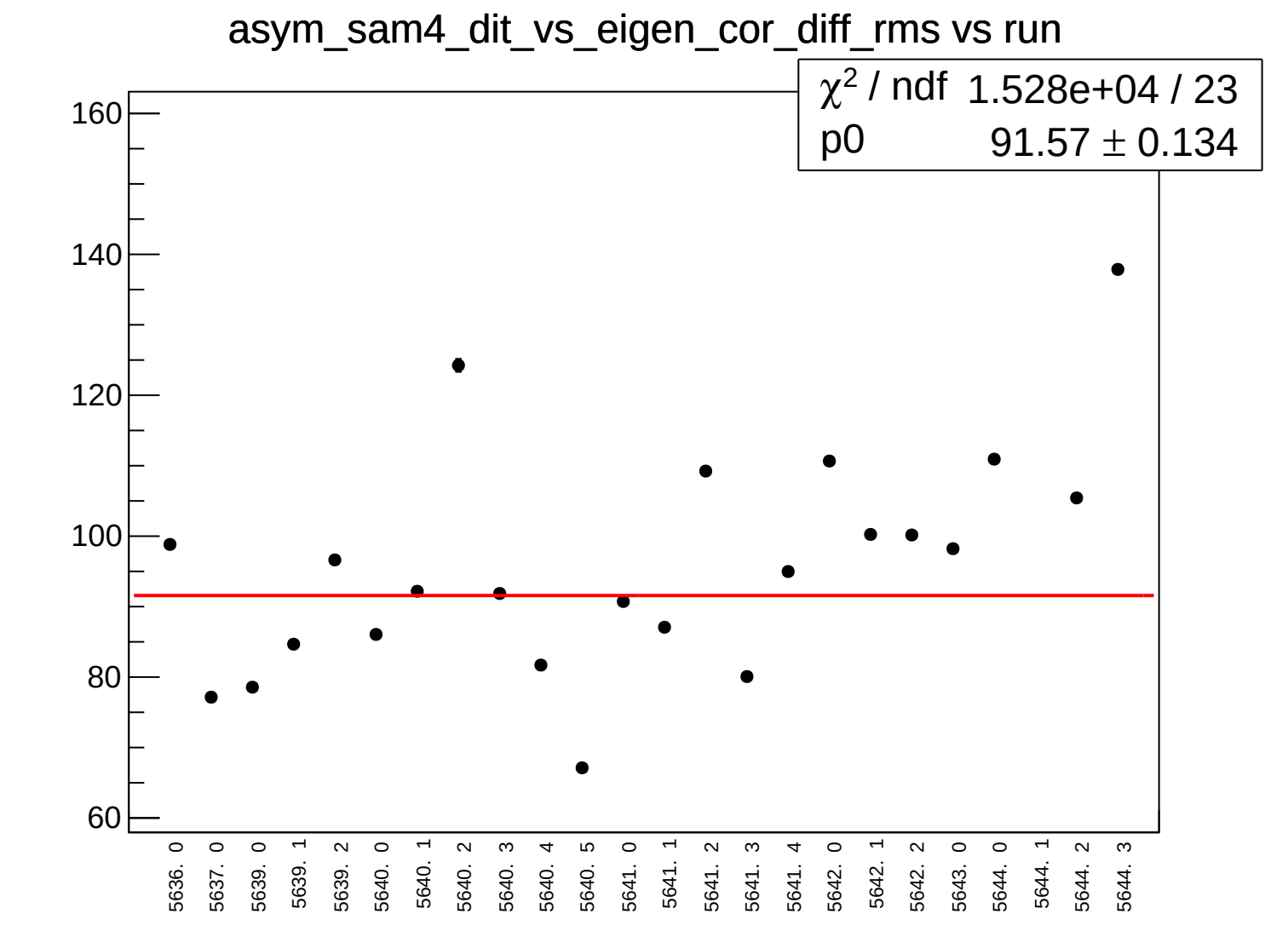

pull1D
Entries 24
Mean −0.01857
Std Dev 0.9813
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

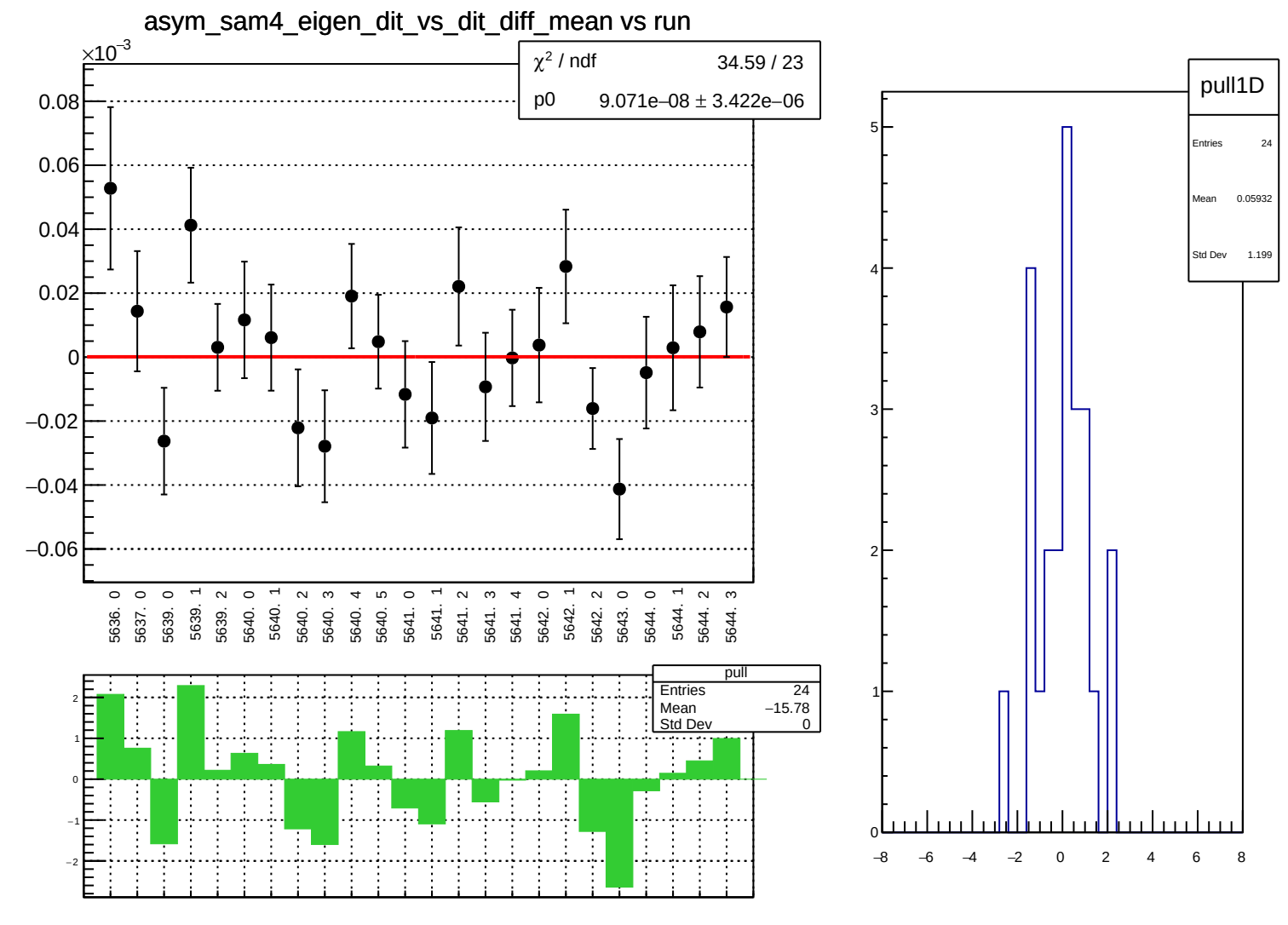

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 2.319e+05 / 23
p0 1.354e−10 ± 2.706e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

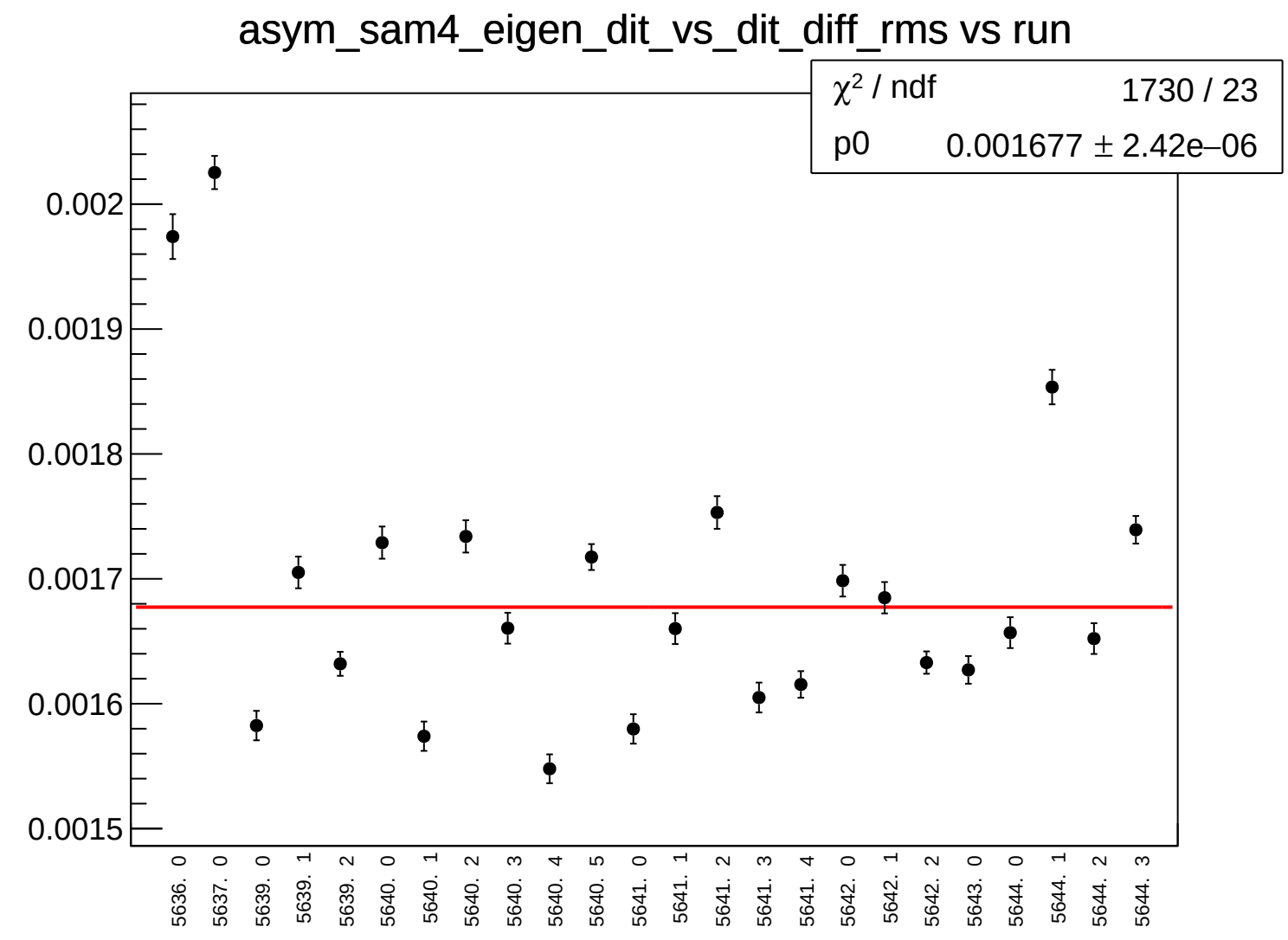

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 18.22 / 23
p0 0.2769 ± 0.1895
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 52.31
Std Dev 0
pull1D
Entries 24
Mean −0.05382
Std Dev 0.8697

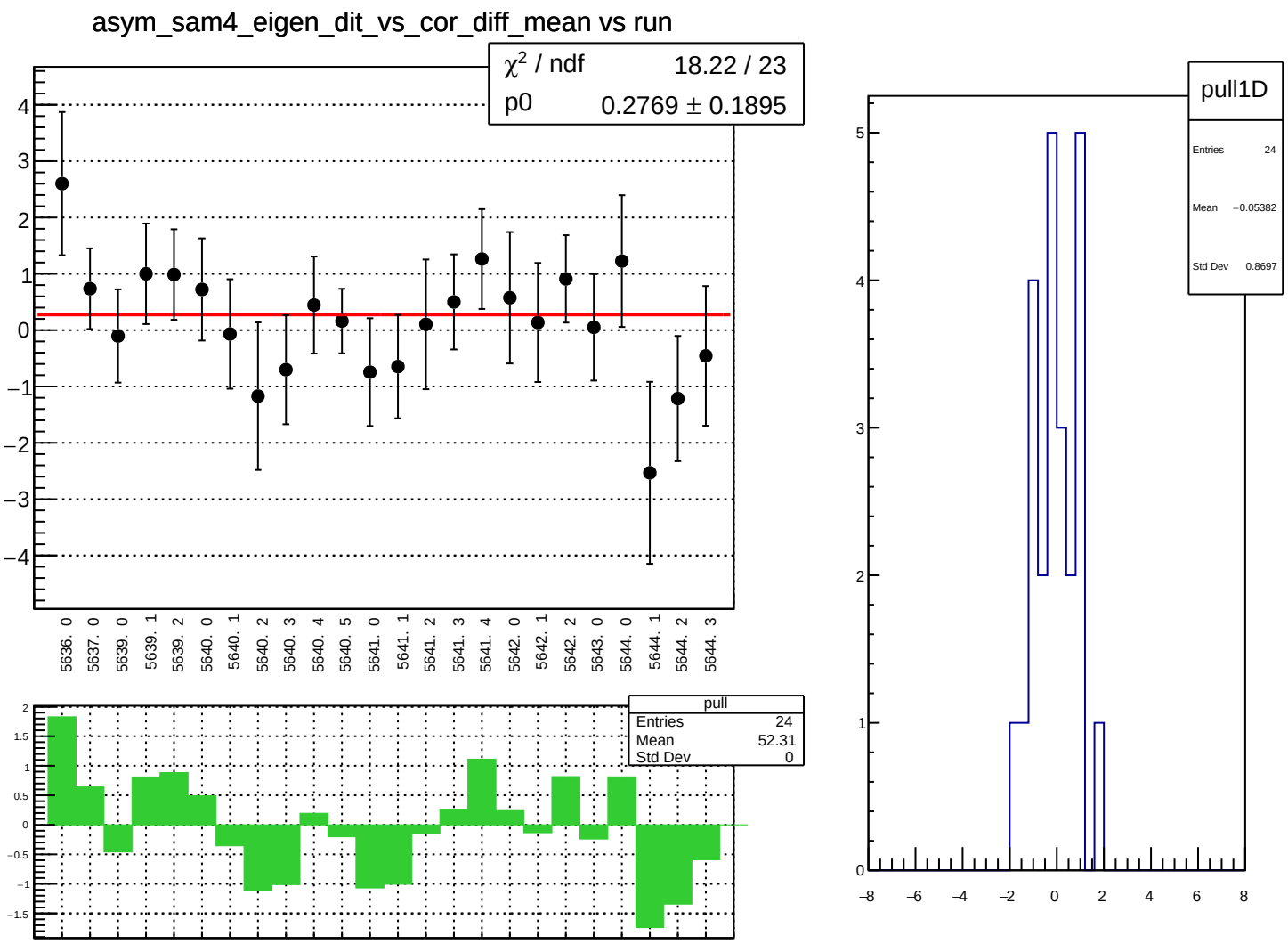

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 1.528e+04 / 23
p0 91.57 ± 0.134
160
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

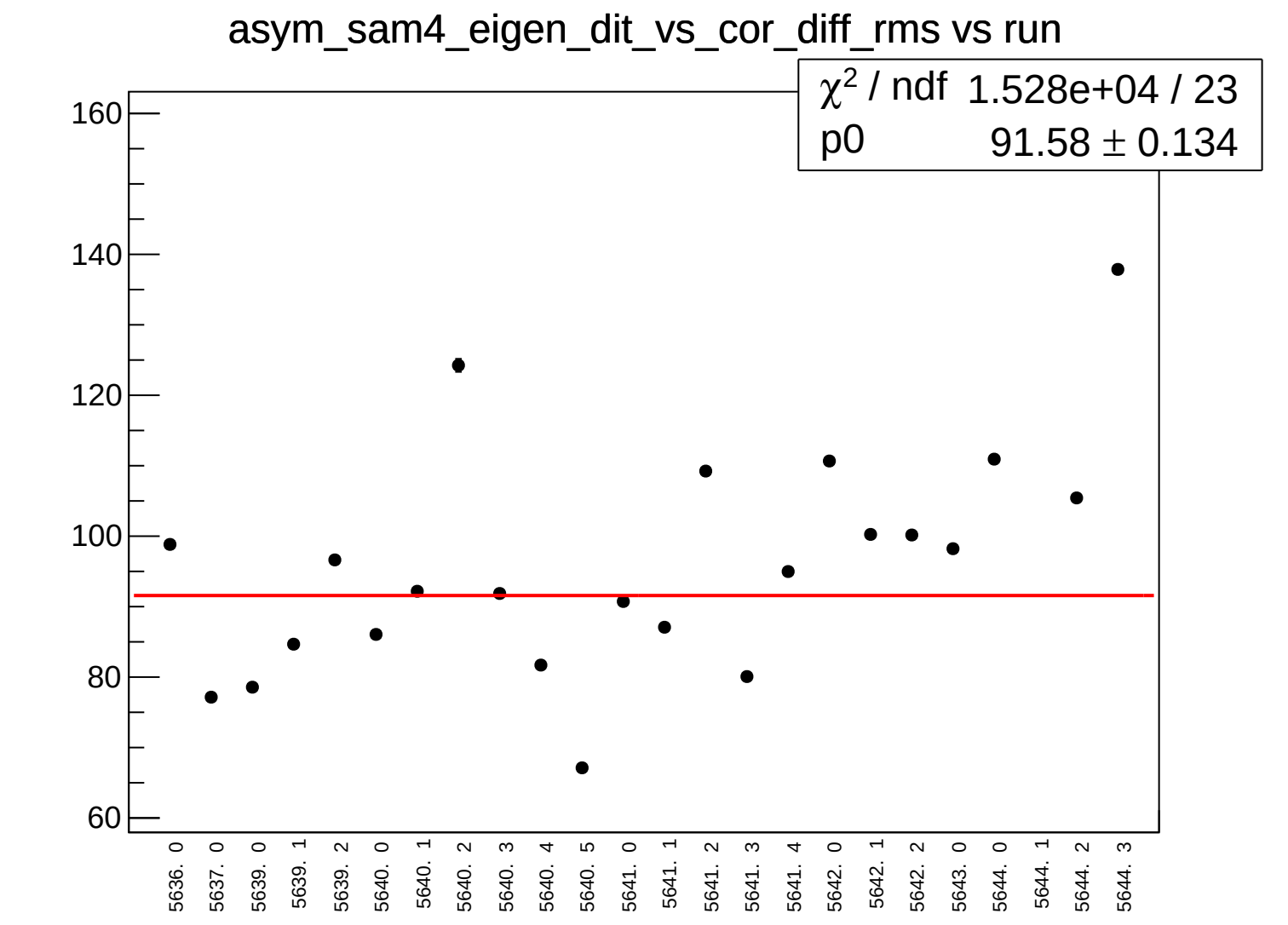

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 18.22 / 23
p0 0.2769 ± 0.1895
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 52.31
Std Dev 0
pull1D
Entries 24
Mean −0.05382
Std Dev 0.8697

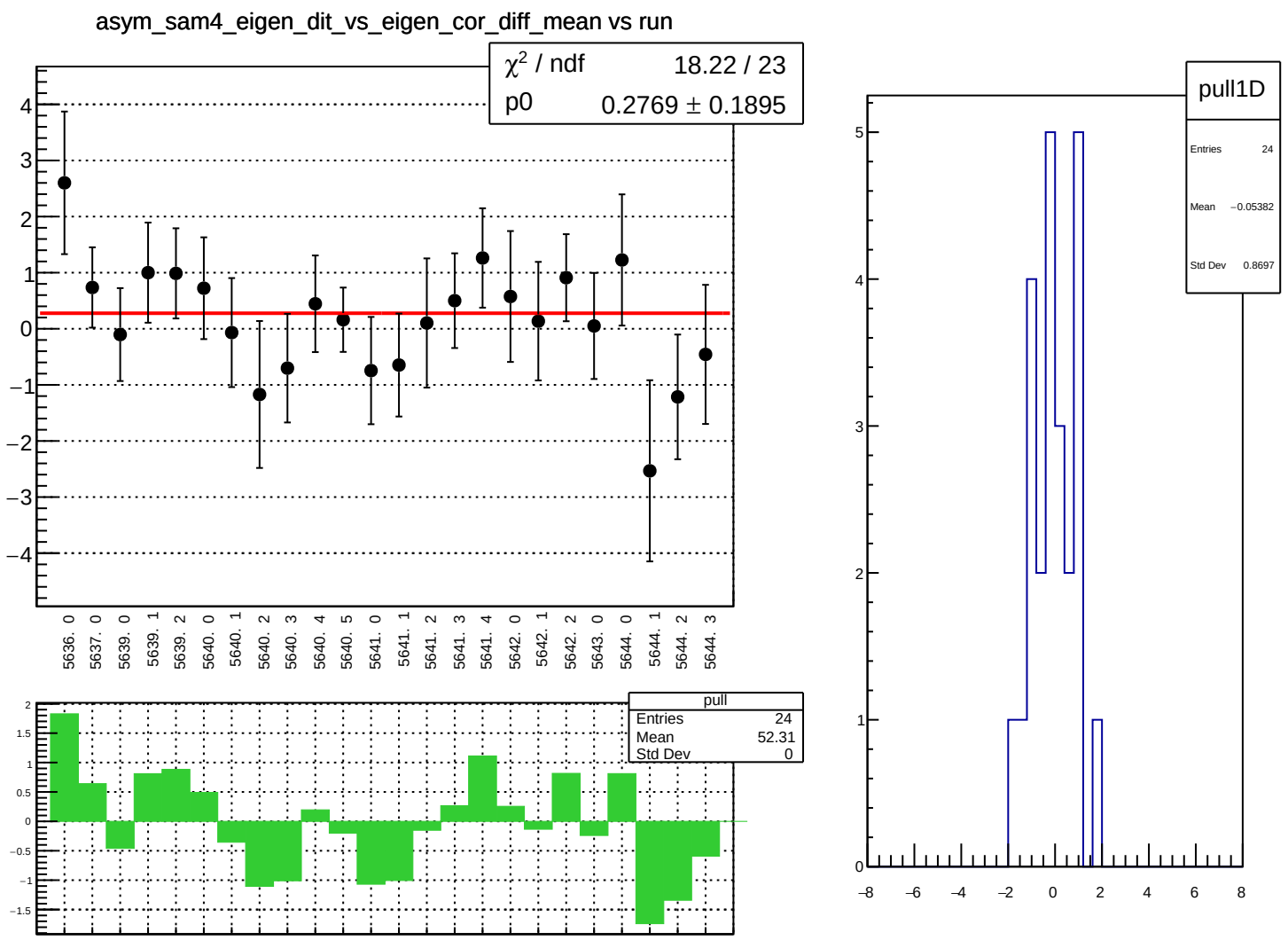

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.528e+04 / 23
p0 91.57 ± 0.134
160
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

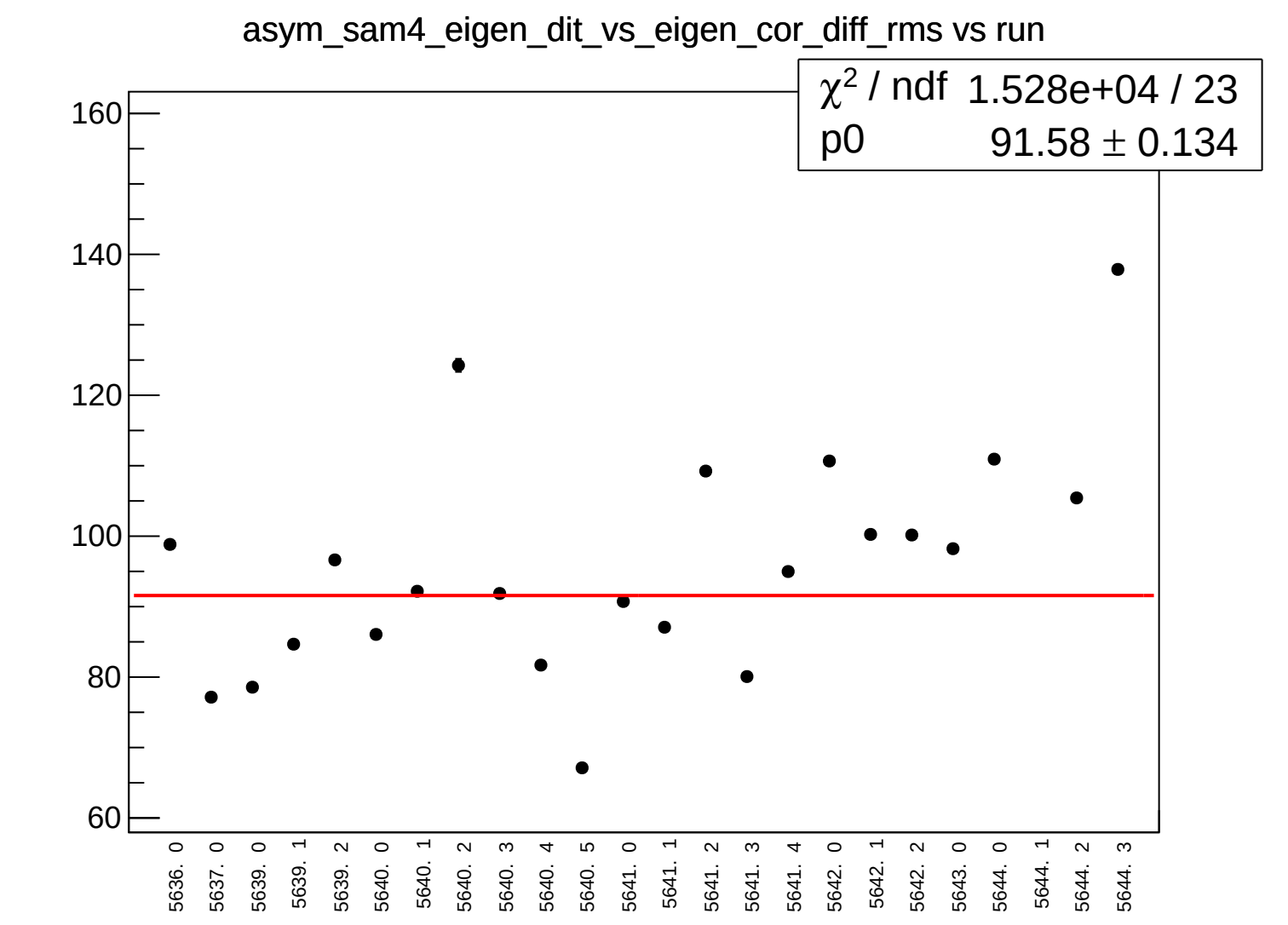

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 34.59 / 23
p0 9.071e−08 ± 3.422e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −15.78
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 24
Mean 0.05932
Std Dev 1.199
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

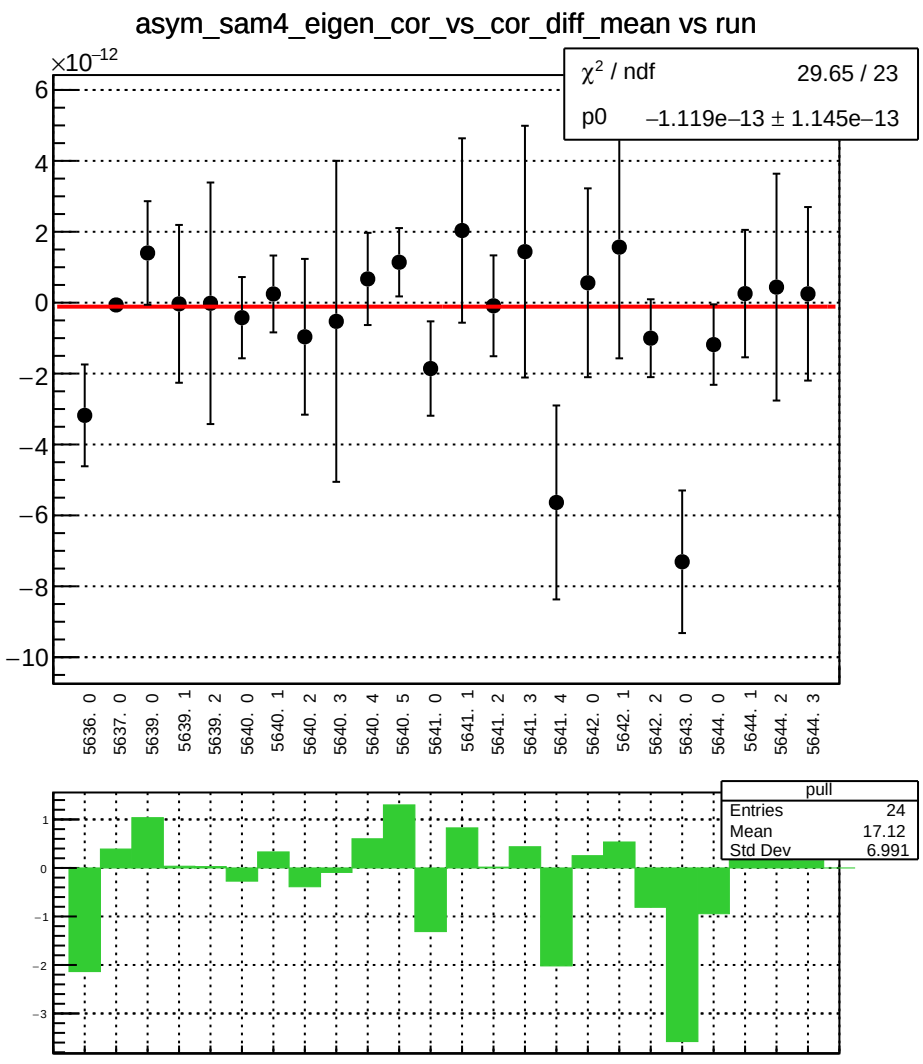

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1730 / 23
p0 0.001677 ± 2.42e–06
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

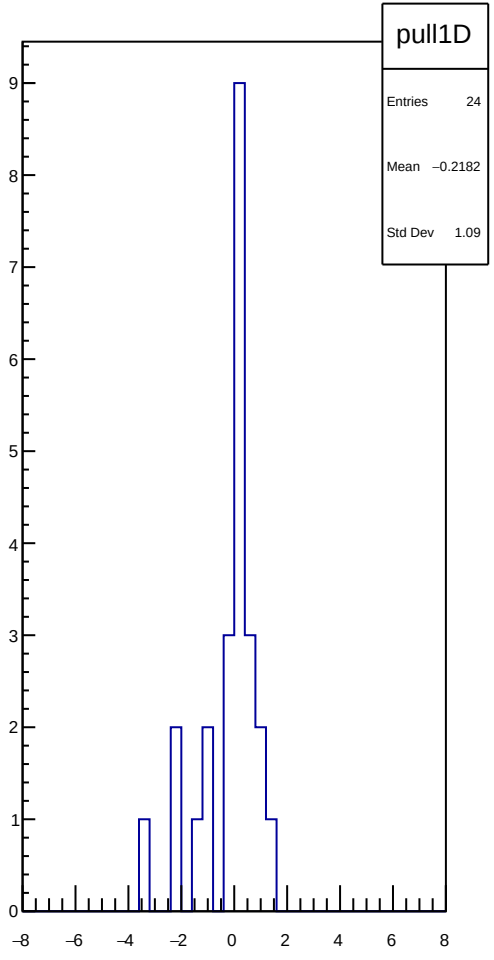

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 18.22 / 23
p0 0.2769 ± 0.1895
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 52.31
Std Dev 0
pull1D
Entries 24
Mean −0.05382
Std Dev 0.8697

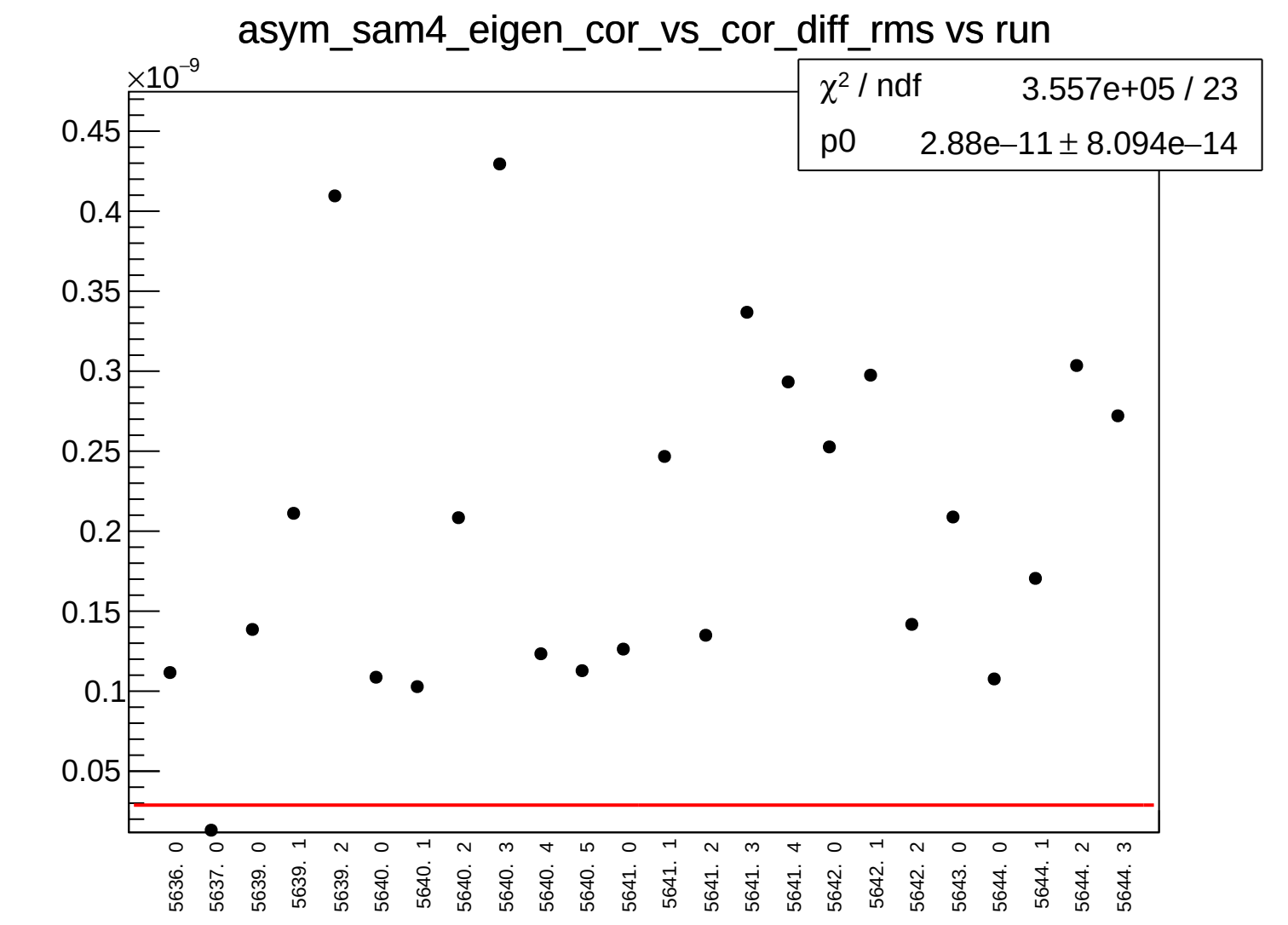

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.528e+04 / 23
p0 91.58 ± 0.134
160
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

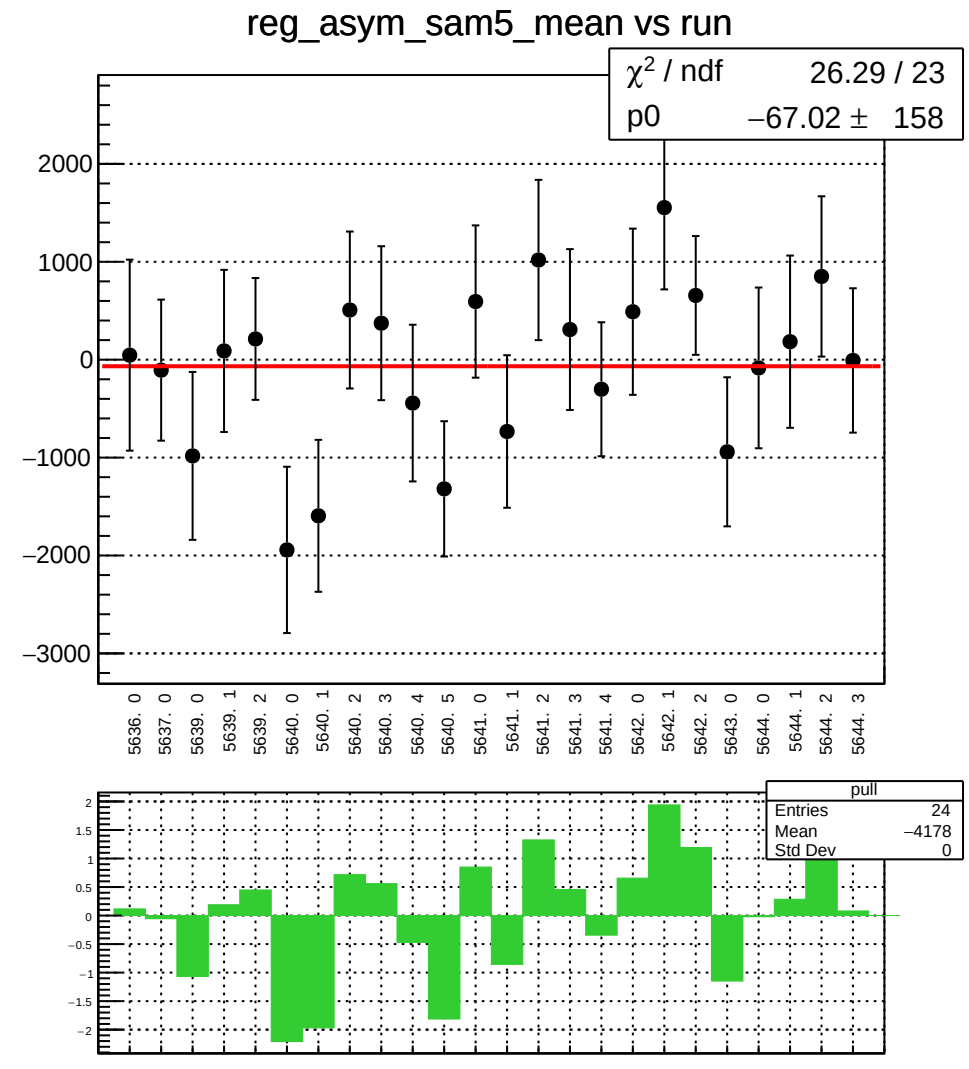

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 18.22 / 23
p0 0.2769 ± 0.1895
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 52.31
Std Dev 0
pull1D
Entries 24
Mean −0.05382
Std Dev 0.8697

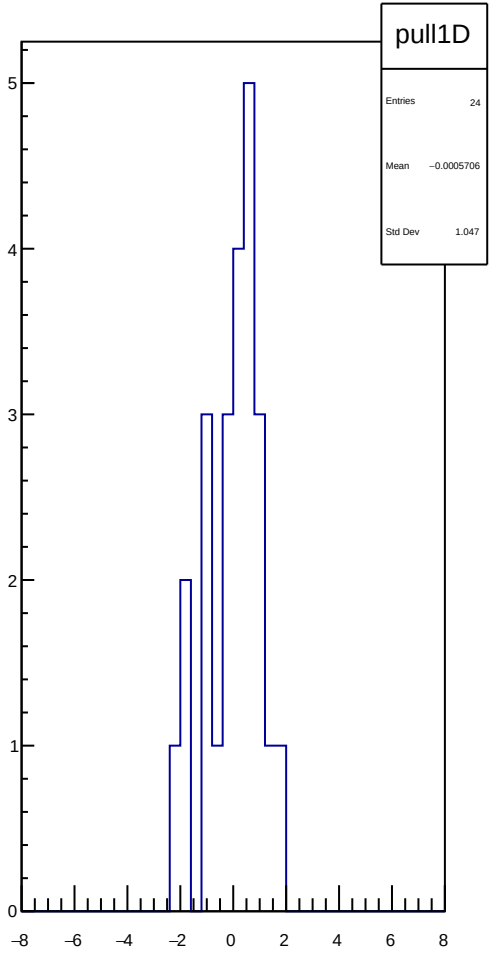

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.528e+04 / 23
p0 91.58 ± 0.134
160
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

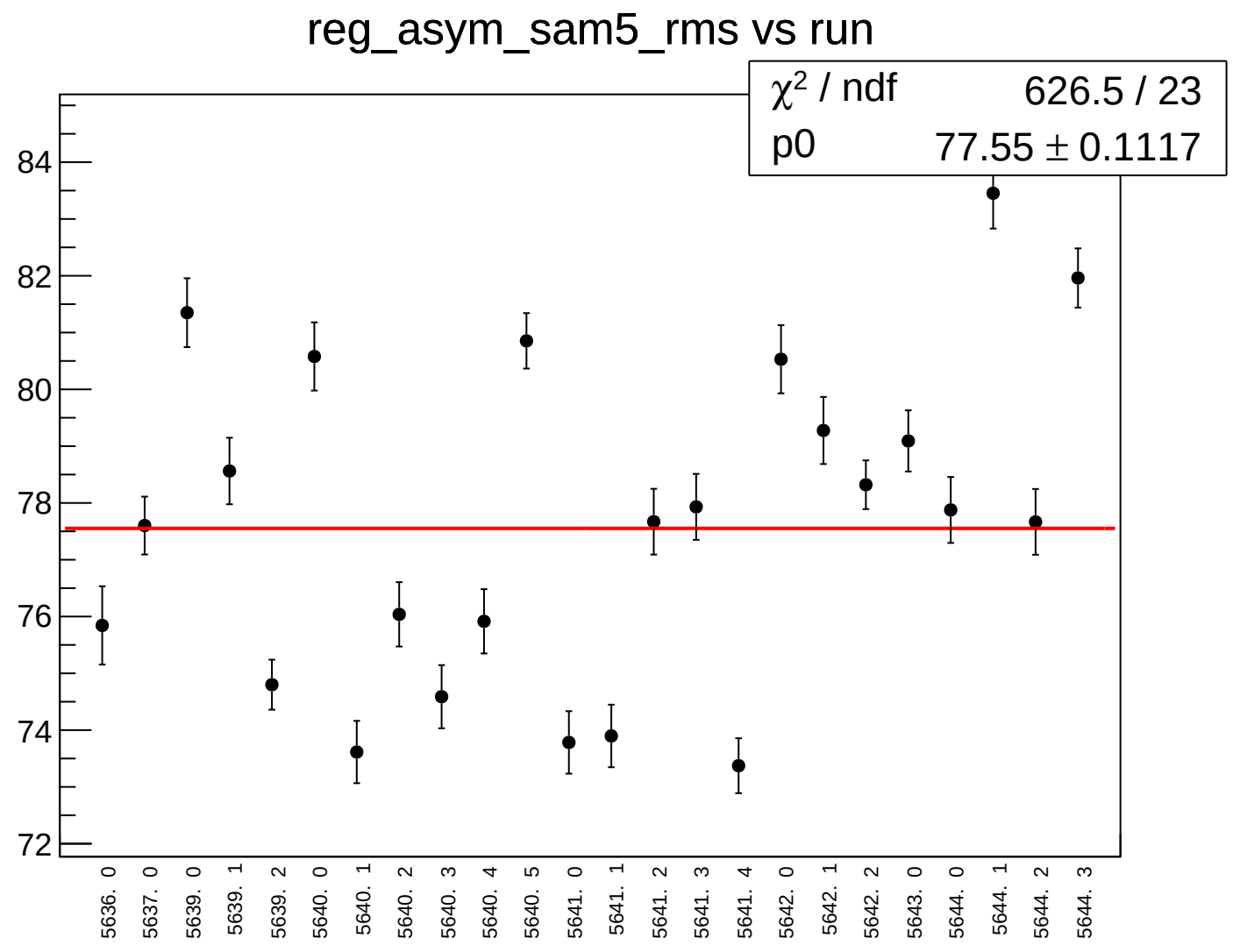

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 29.65 / 23
p0 −1.119e−13 ± 1.145e−13
6
4
2
0
−2
−4
−6
−8
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 17.12
Std Dev 6.991
1
0
−1
−2
−3


pull1D
Entries 24
Mean −0.2182
Std Dev 1.09
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.557e+05 / 23
p0 2.88e−11 ± 8.094e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


reg_asym_sam5_mean vs run
χ² / ndf 26.29 / 23
p0 −67.02 ± 158
2000
1000
0
−1000
−2000
−3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −4178
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.0005706
Std Dev 1.047
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam5_rms vs run
χ² / ndf 626.5 / 23
p0 77.55 ± 0.1117
84
82
80
78
76
74
72
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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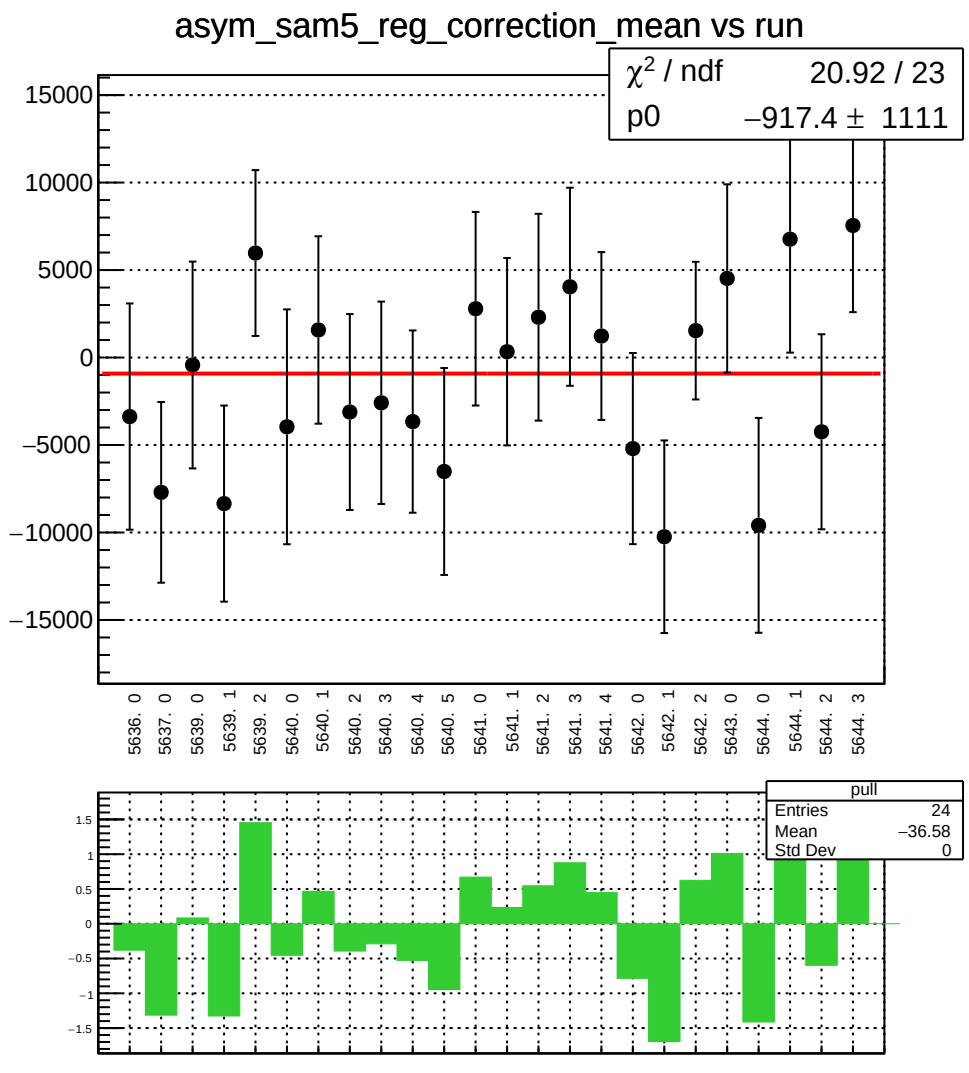
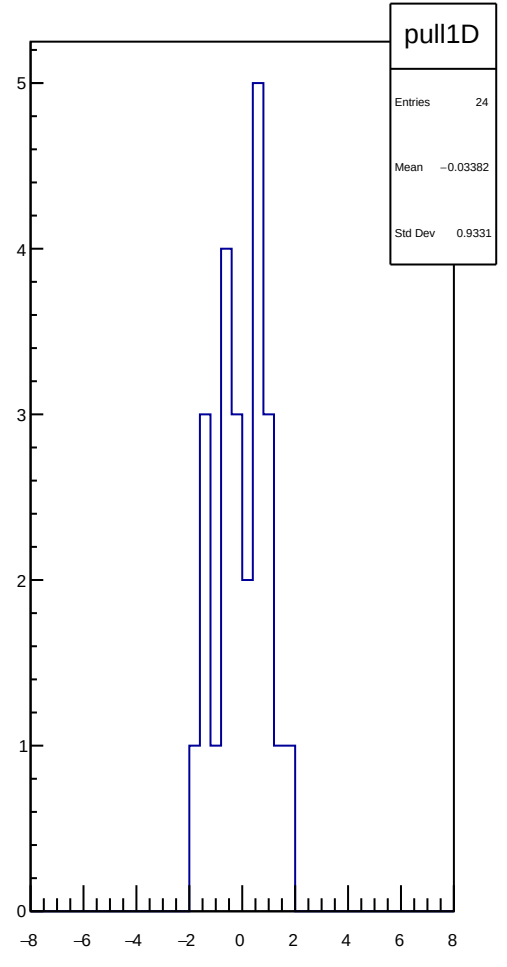
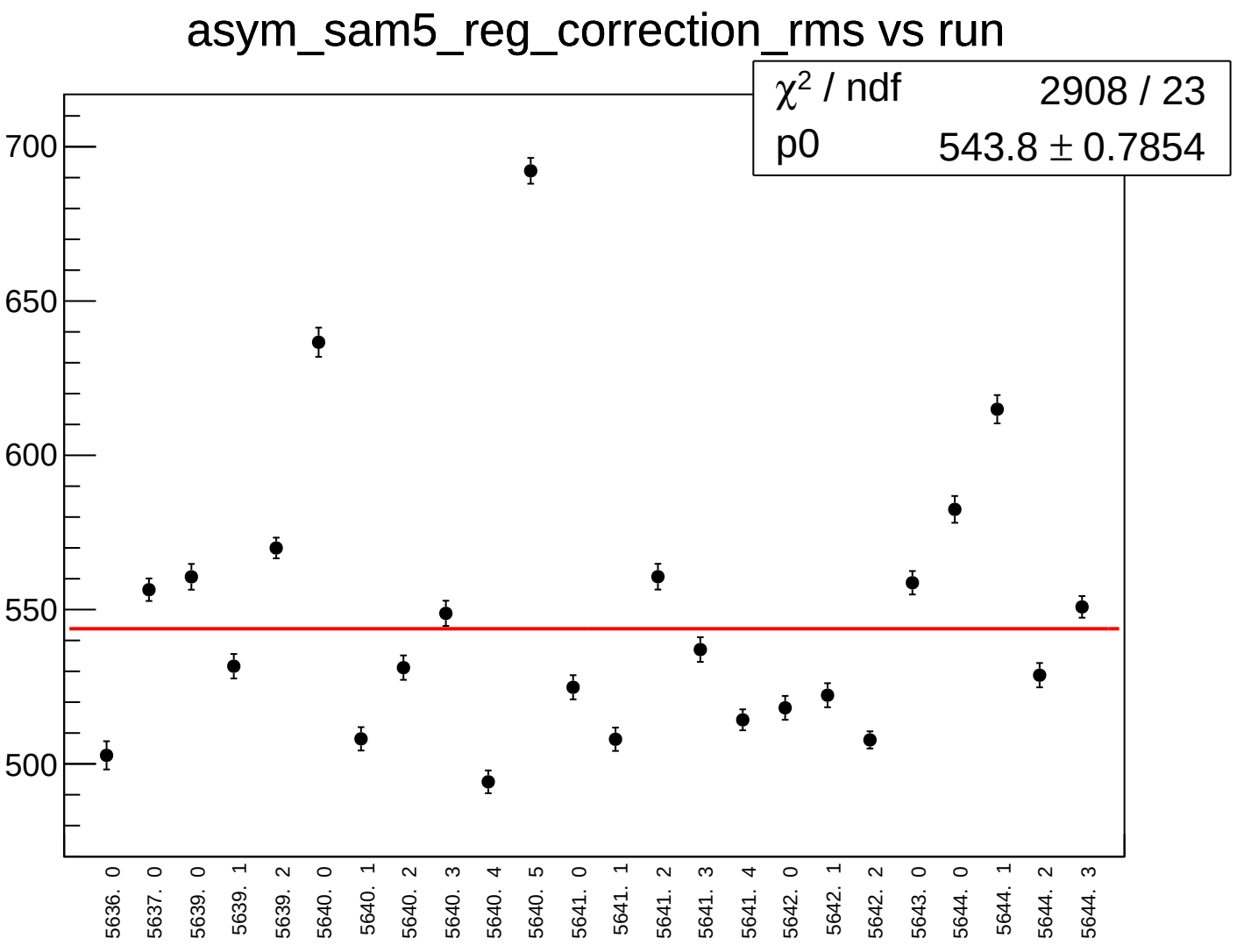
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam5_reg_correction_mean vs run
χ² / ndf 20.92 / 23
p0 −917.4 ± 1111
15000
10000
5000
0
−5000
−10000
−15000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −36.58
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean −0.03382
Std Dev 0.9331
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam5_reg_correction_rms vs run
χ² / ndf 2908 / 23
p0 543.8 ± 0.7854
700
650
600
550
500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5642. 1
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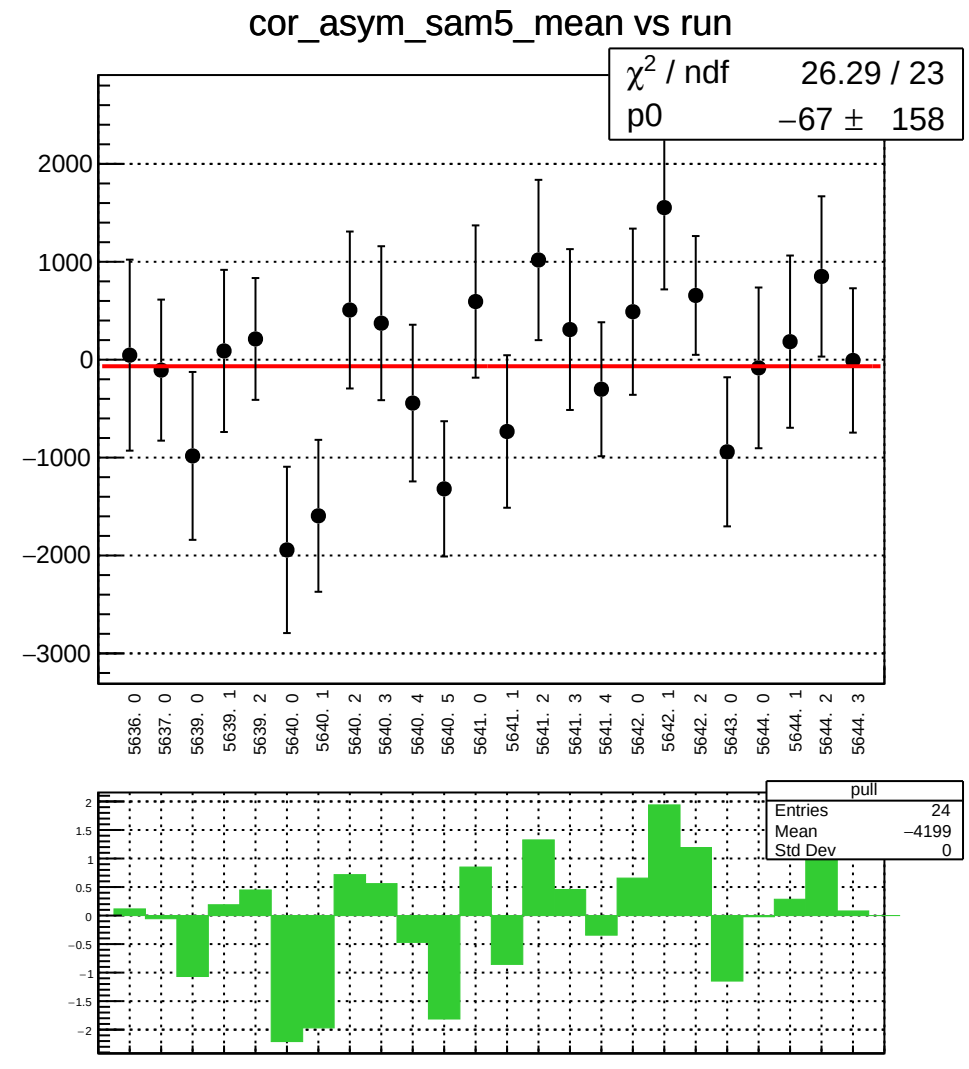
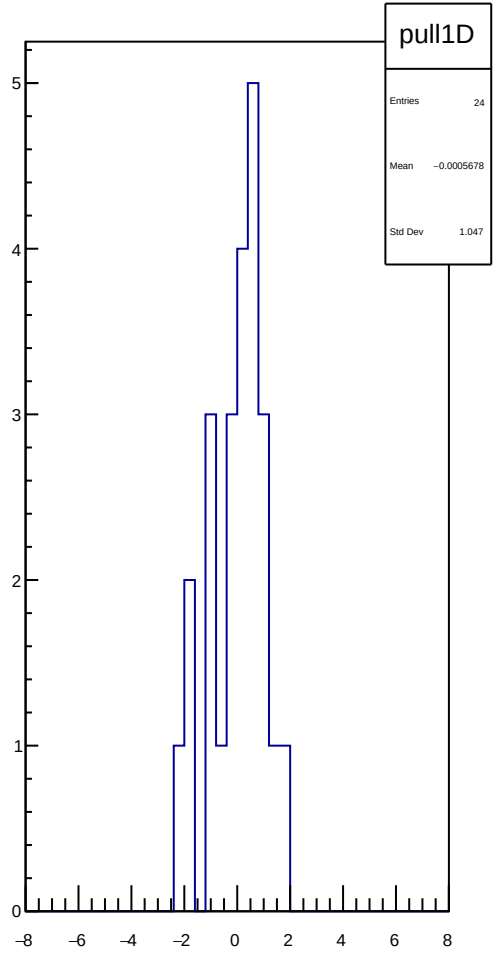
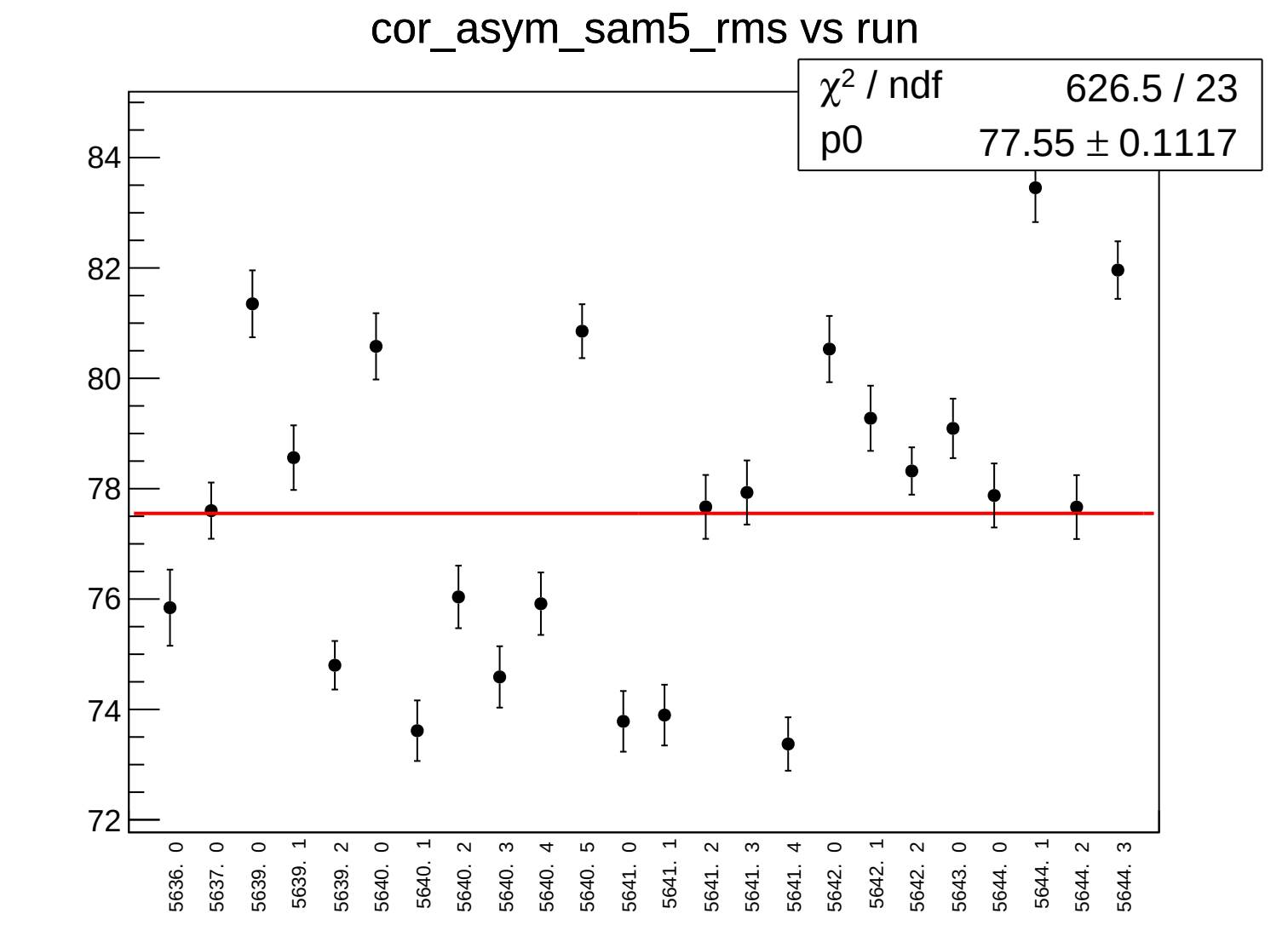
5644. 2
5644. 3


cor_asym_sam5_mean vs run
χ² / ndf 26.29 / 23
p0 −67 ± 158
2000
1000
0
−1000
−2000
−3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −4199
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.0005678
Std Dev 1.047
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam5_rms vs run
χ² / ndf 626.5 / 23
p0 77.55 ± 0.1117
84
82
80
78
76
74
72
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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5642. 0
5642. 1
5642. 2
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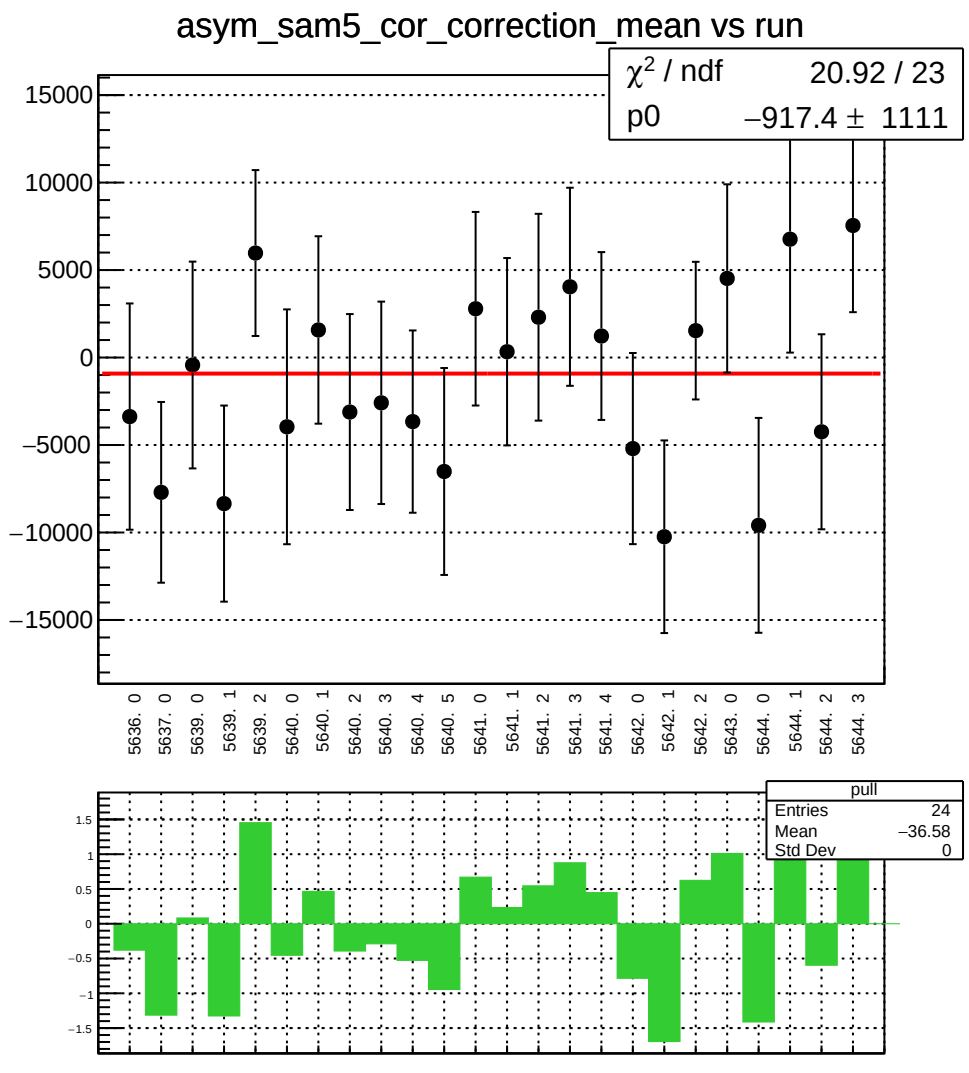
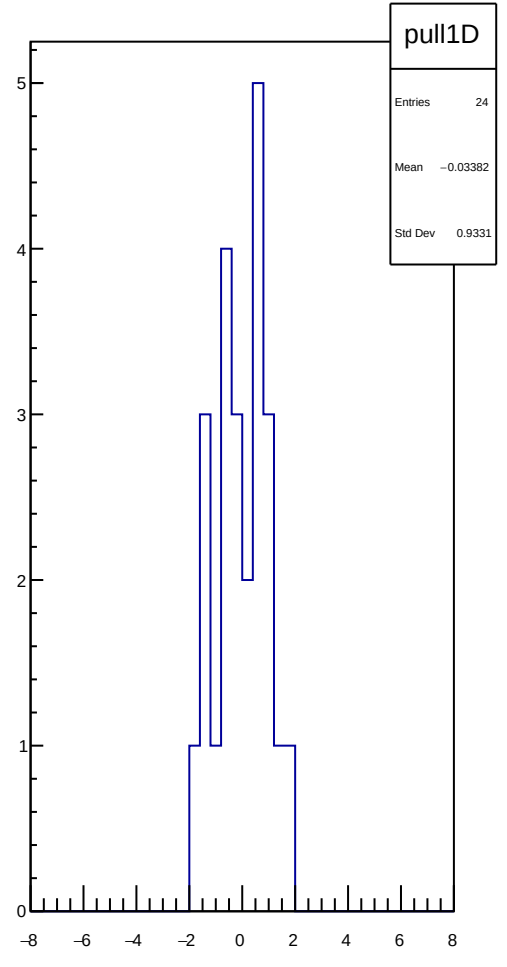
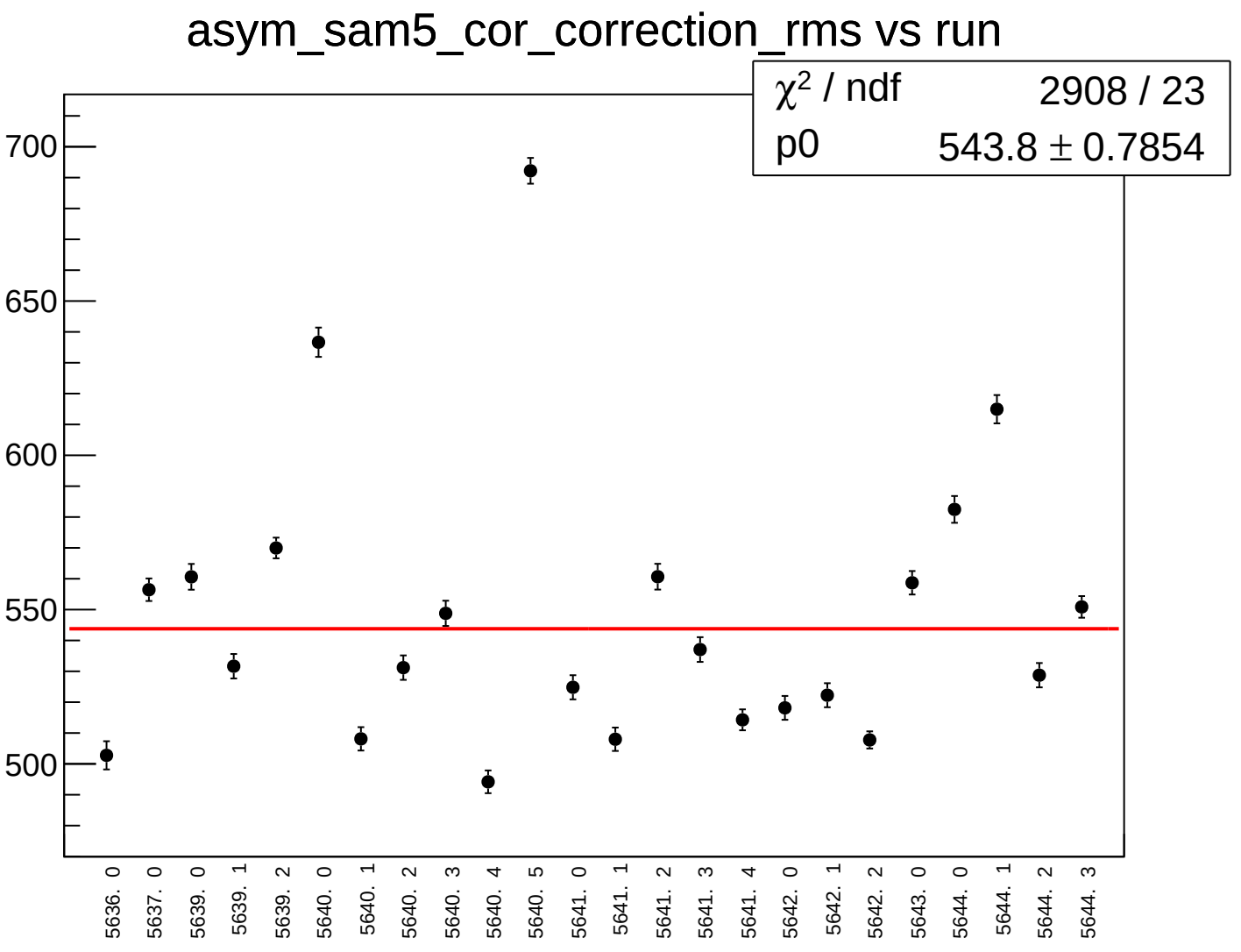
5644. 2
5644. 3


asym_sam5_cor_correction_mean vs run
χ² / ndf 20.92 / 23
p0 −917.4 ± 1111
15000
10000
5000
0
−5000
−10000
−15000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −36.58
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean −0.03382
Std Dev 0.9331
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam5_cor_correction_rms vs run
χ² / ndf 2908 / 23
p0 543.8 ± 0.7854
700
650
600
550
500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
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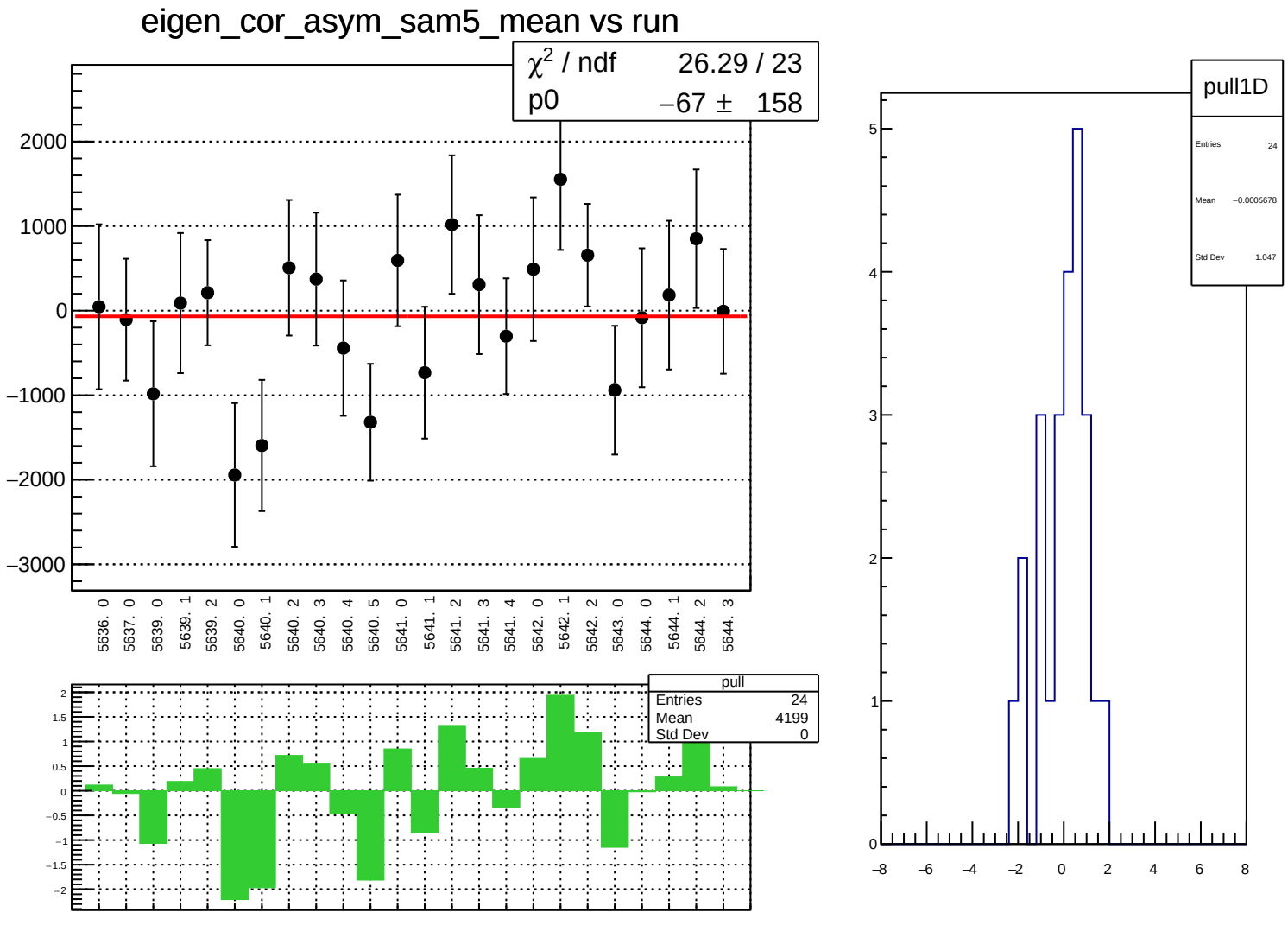
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_cor_asym_sam5_mean vs run
χ² / ndf 26.29 / 23
p0 −67 ± 158
2000
1000
0
−1000
−2000
−3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −4199
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.0005678
Std Dev 1.047
5
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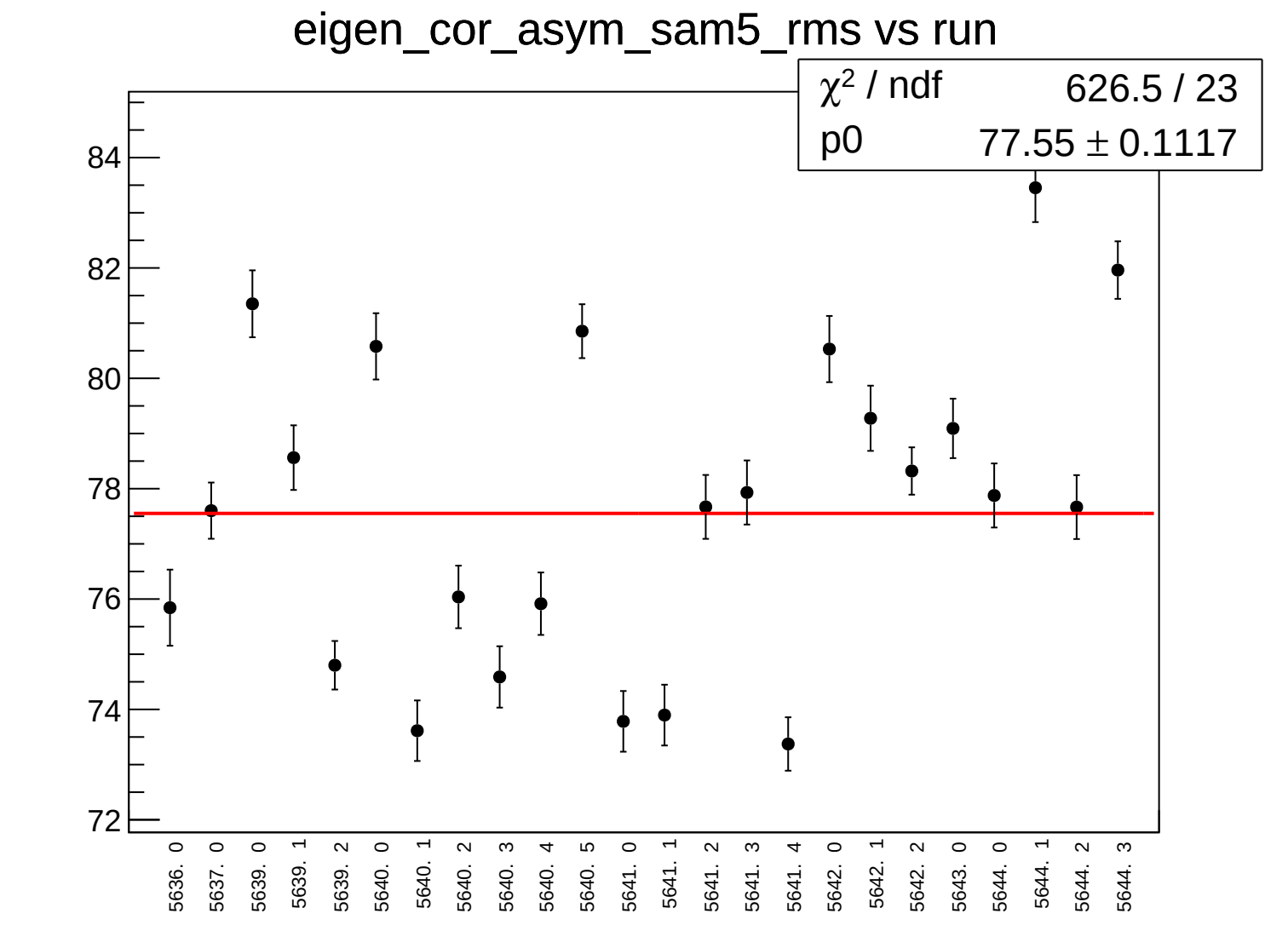
eigen_cor_asym_sam5_rms vs run
χ² / ndf 626.5 / 23
p0 77.55 ± 0.1117
84
82
80
78
76
74
72
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
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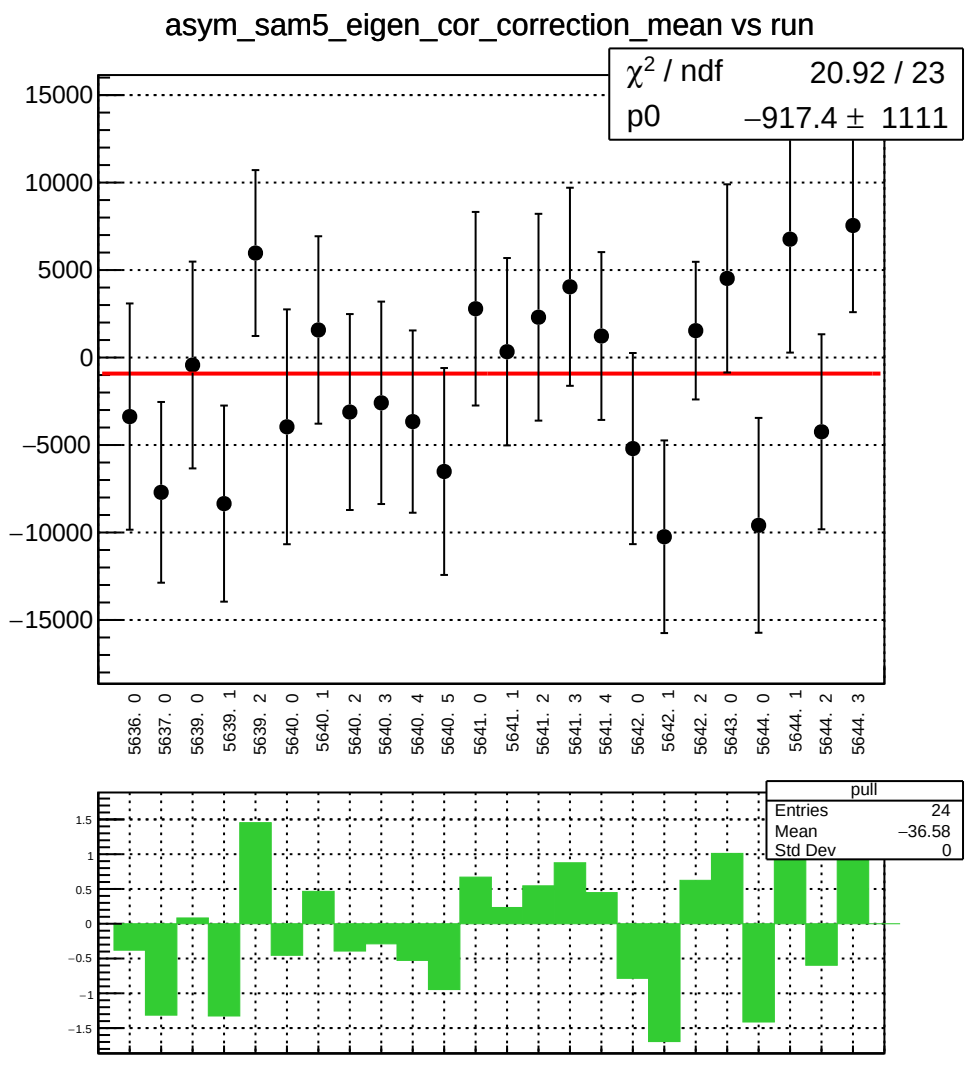
5644. 2
5644. 3


asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 20.92 / 23
p0 −917.4 ± 1111
15000
10000
5000
0
−5000
−10000
−15000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −36.58
Std Dev 0
1.5
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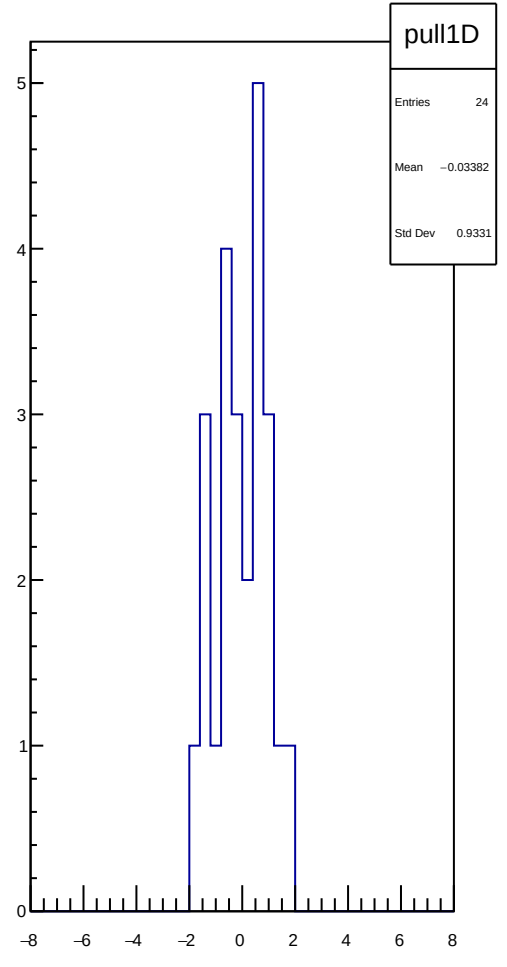
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean −0.03382
Std Dev 0.9331
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1
0
−8
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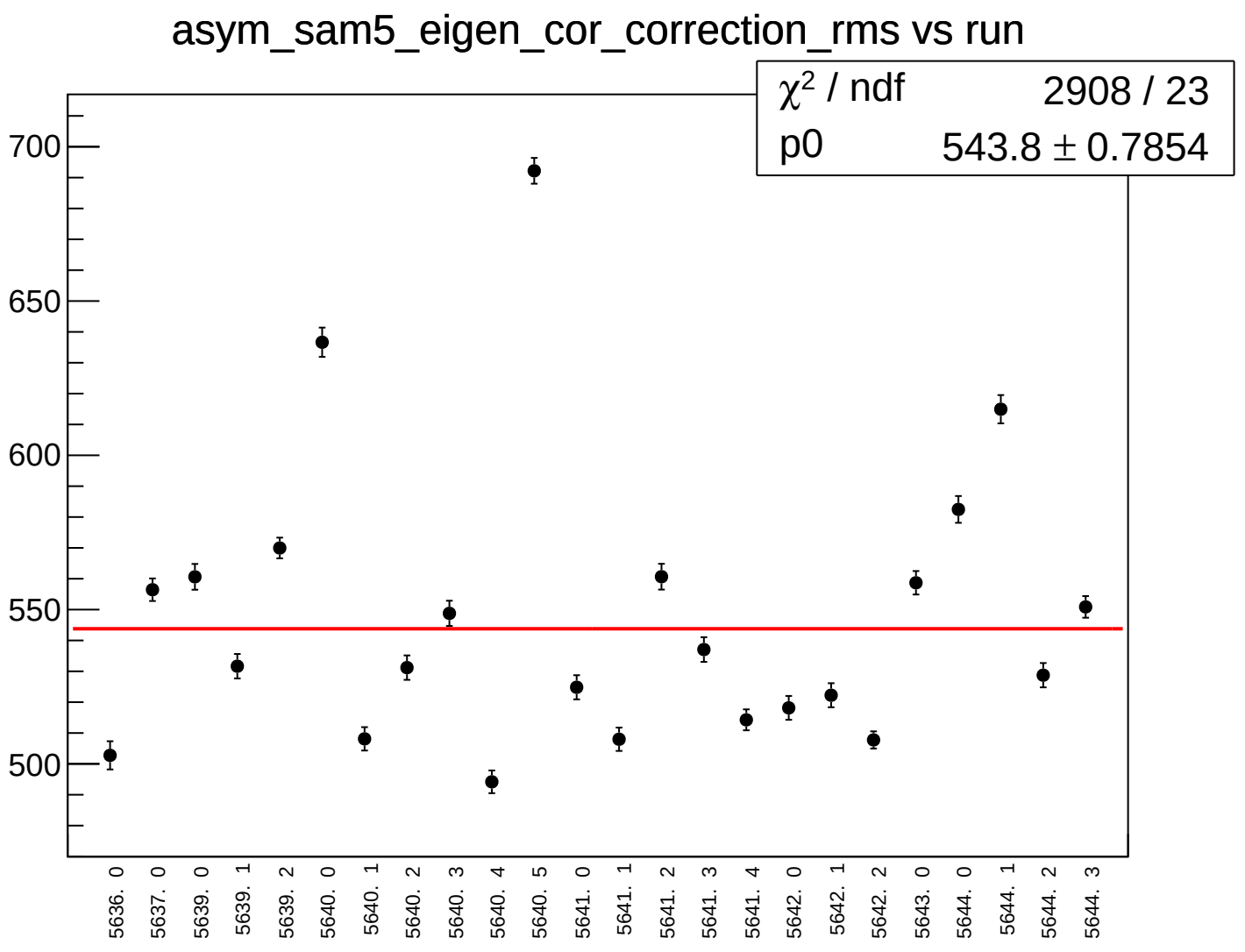
−4
−2
0
2
4
6
8


asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 2908 / 23
p0 543.8 ± 0.7854
700
650
600
550
500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5642. 0
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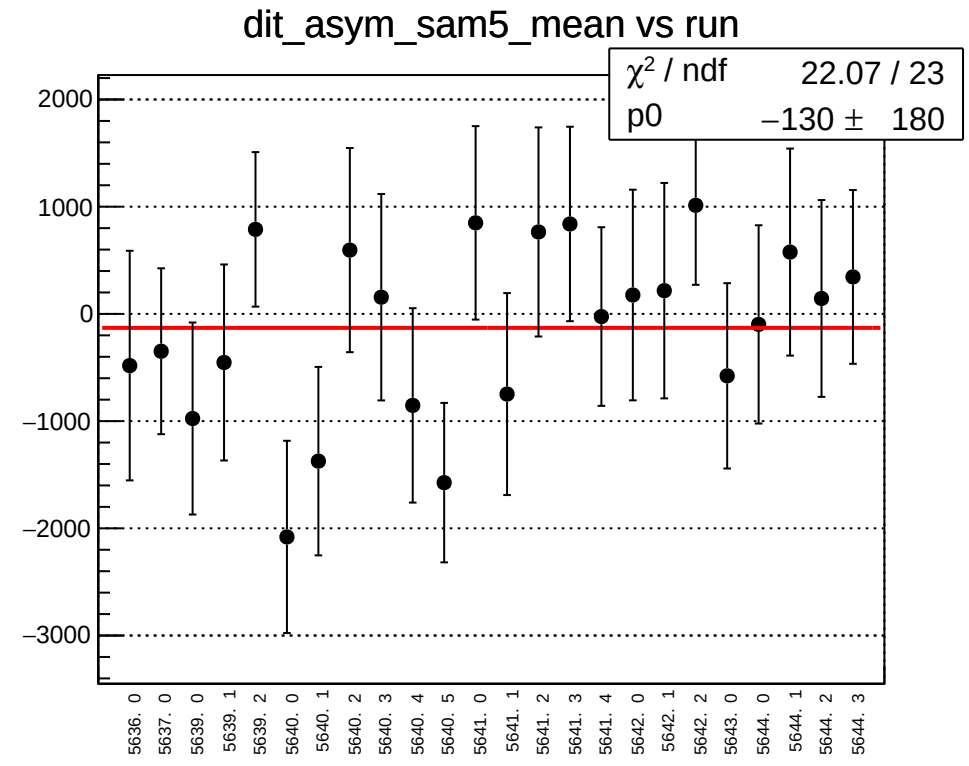
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


dit_asym_sam5_mean vs run
χ² / ndf 22.07 / 23
p0 −130 ± 180
2000
1000
0
−1000
−2000
−3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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5642. 0
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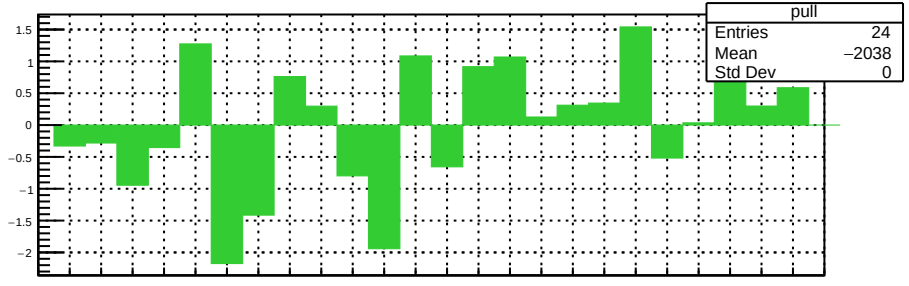
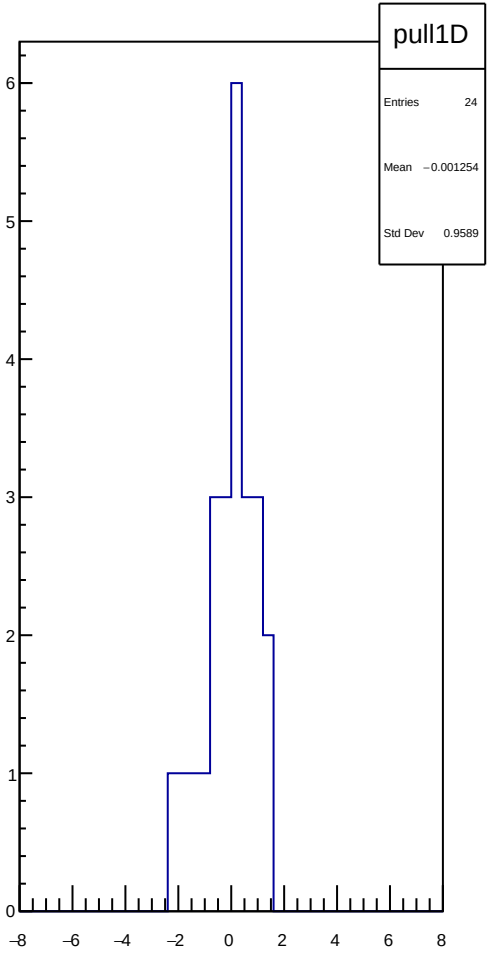
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


pull
Entries 24
Mean −2038
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.001254
Std Dev 0.9589
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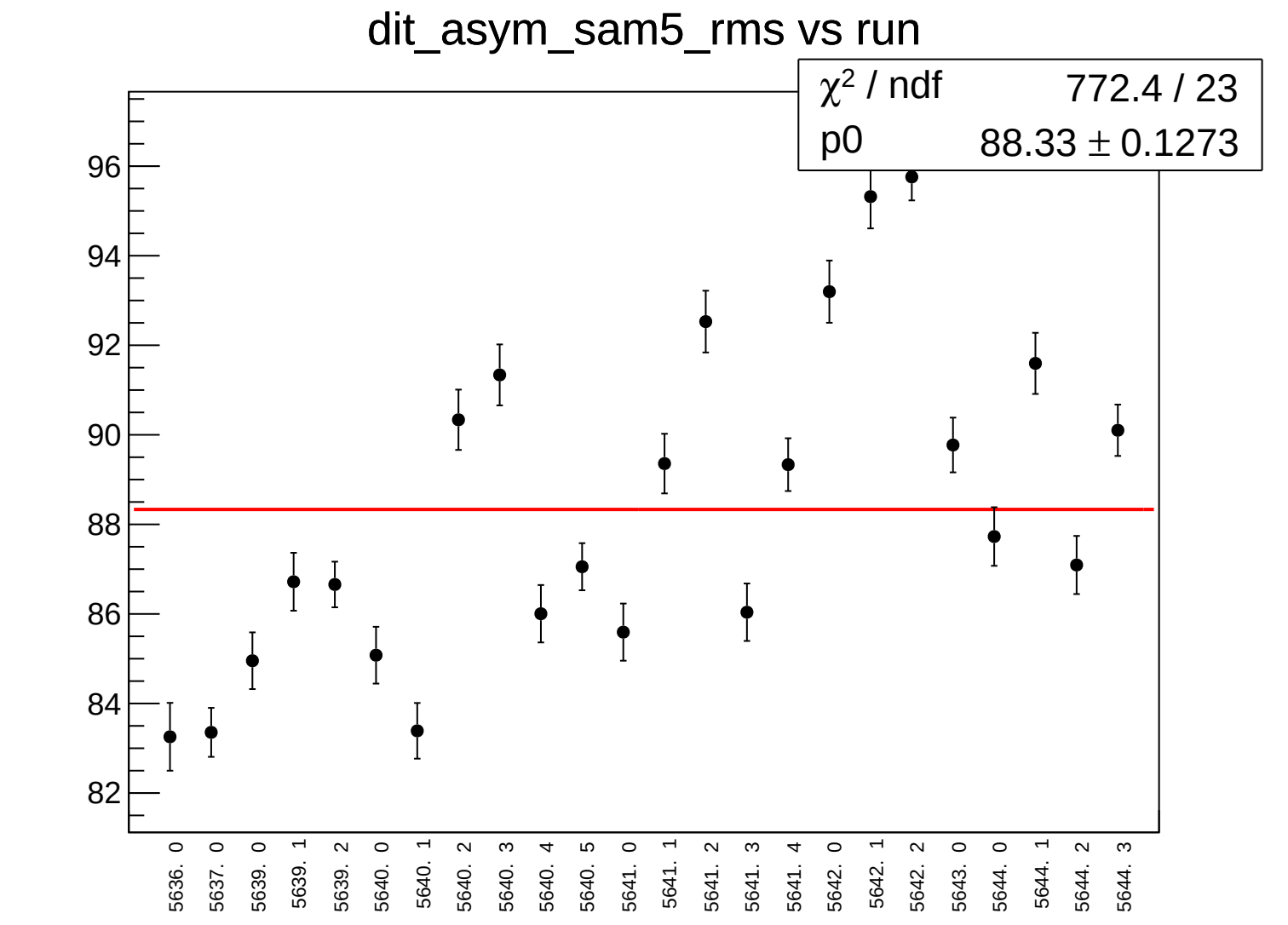
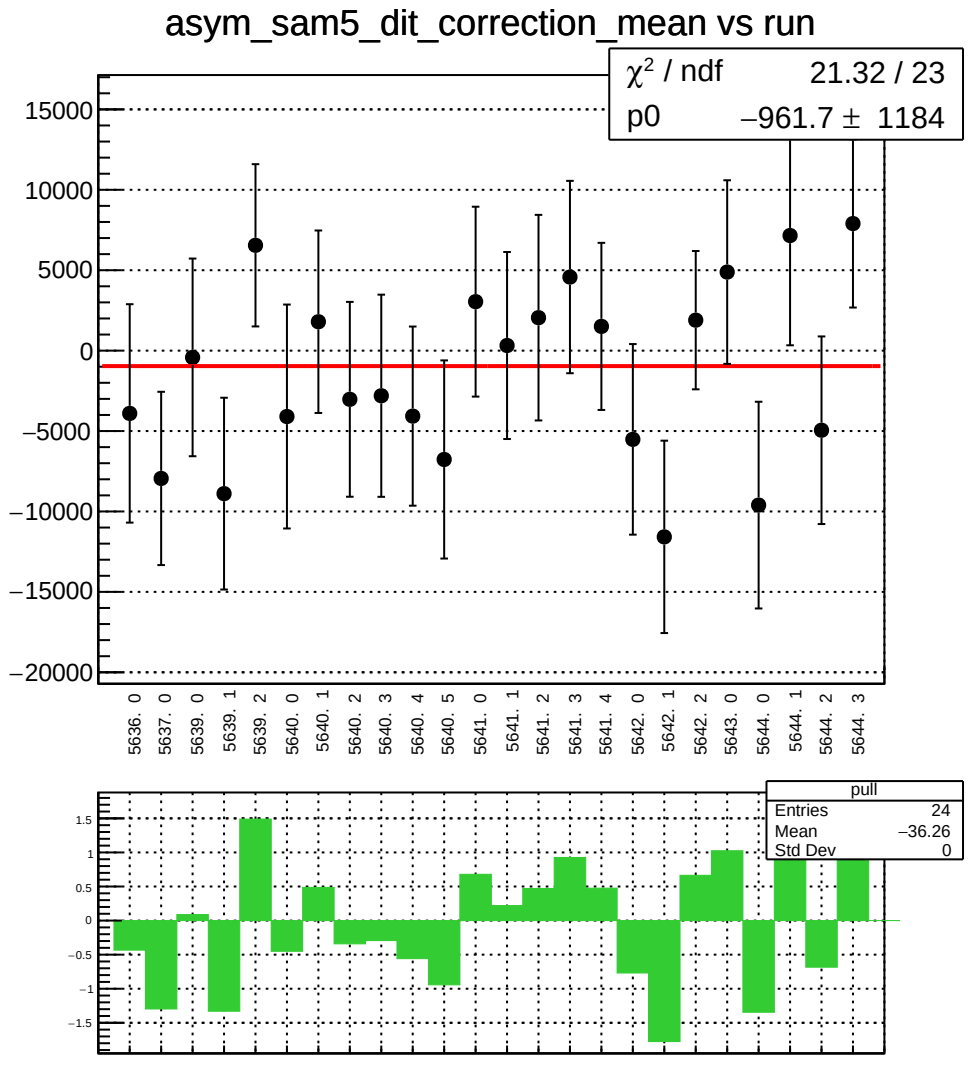
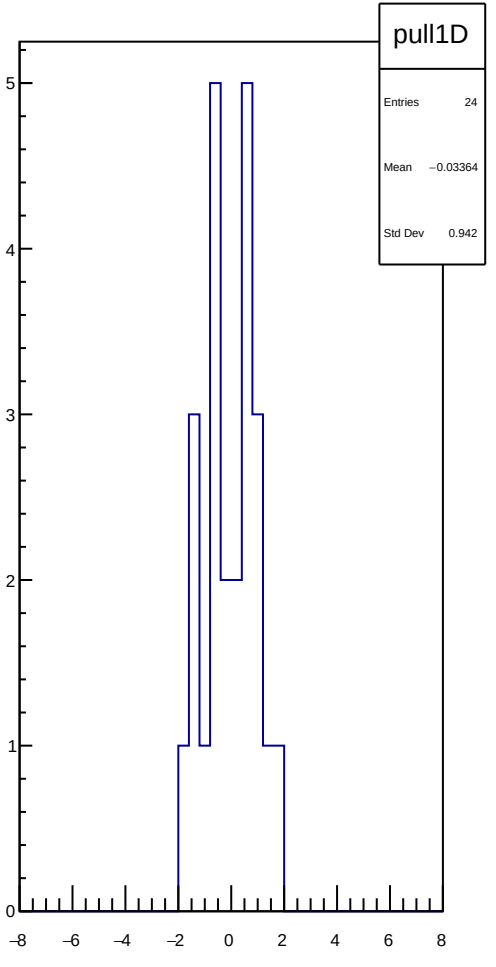
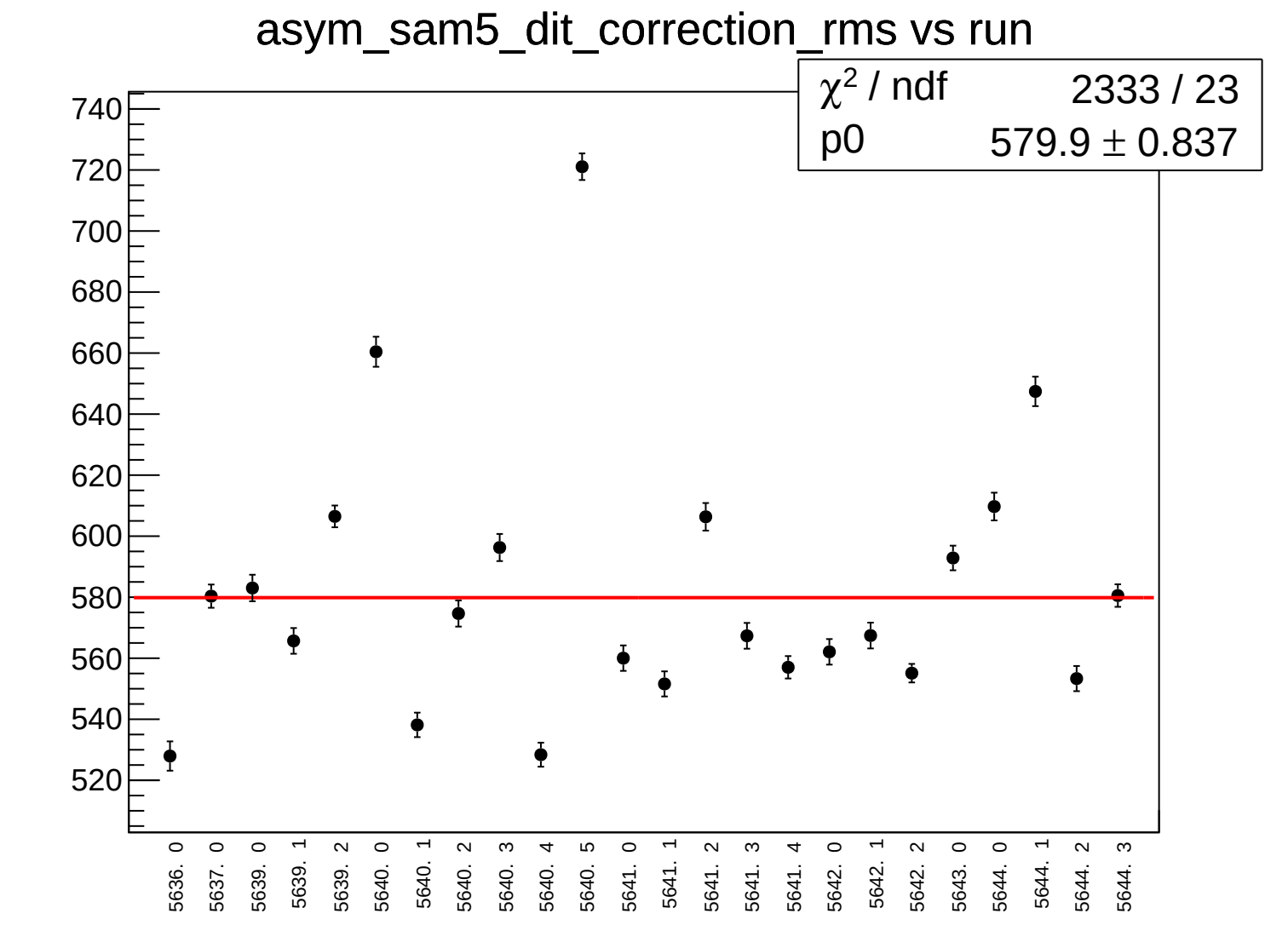
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam5_rms vs run
χ² / ndf 772.4 / 23
p0 88.33 ± 0.1273
96
94
92
90
88
86
84
82
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam5_dit_correction_mean vs run
χ² / ndf 21.32 / 23
p0 −961.7 ± 1184
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −36.26
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean −0.03364
Std Dev 0.942
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam5_dit_correction_rms vs run
χ² / ndf 2333 / 23
p0 579.9 ± 0.837
740
720
700
680
660
640
620
600
580
560
540
520
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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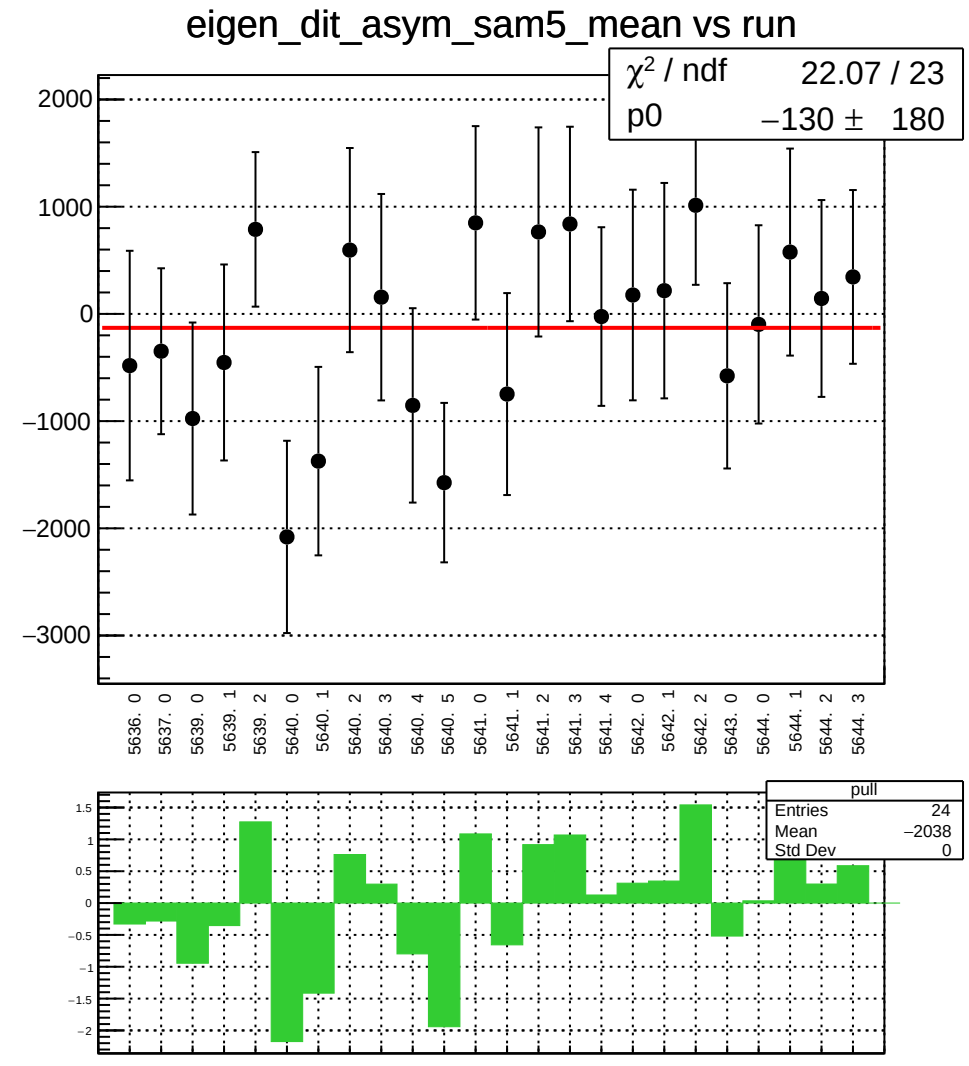
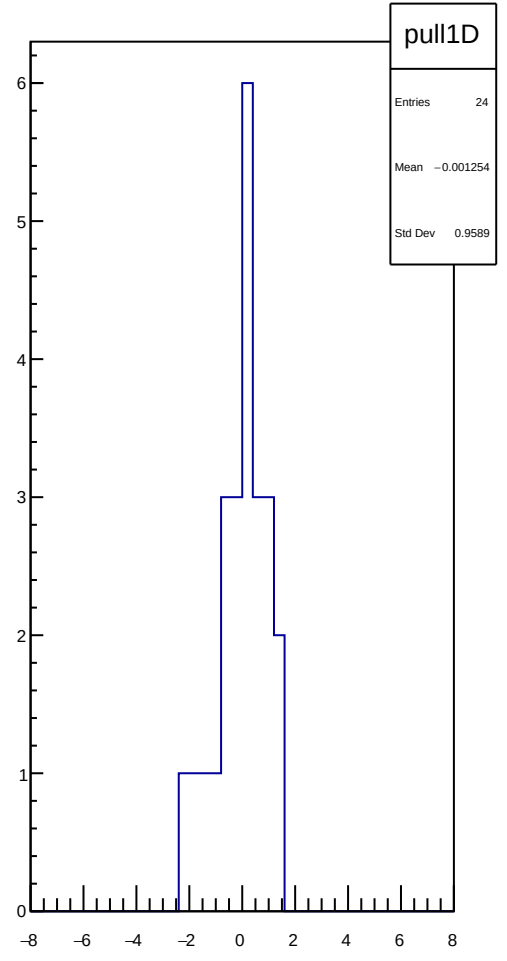
5644. 2
5644. 3


eigen_dit_asym_sam5_mean vs run
χ² / ndf 22.07 / 23
p0 −130 ± 180
2000
1000
0
−1000
−2000
−3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −2038
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.001254
Std Dev 0.9589
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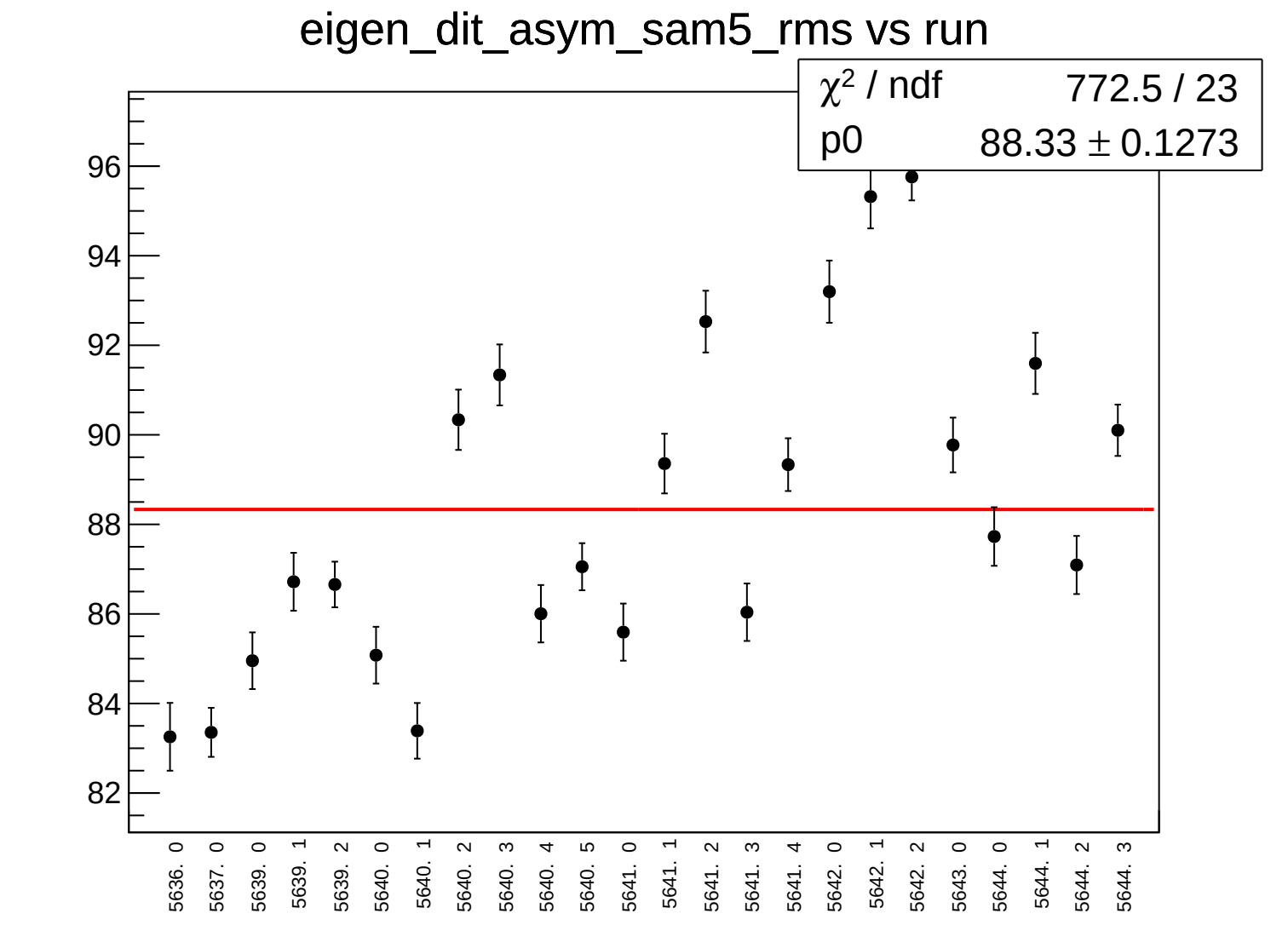
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam5_rms vs run
χ² / ndf 772.5 / 23
p0 88.33 ± 0.1273
96
94
92
90
88
86
84
82
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5642. 0
5642. 1
5642. 2
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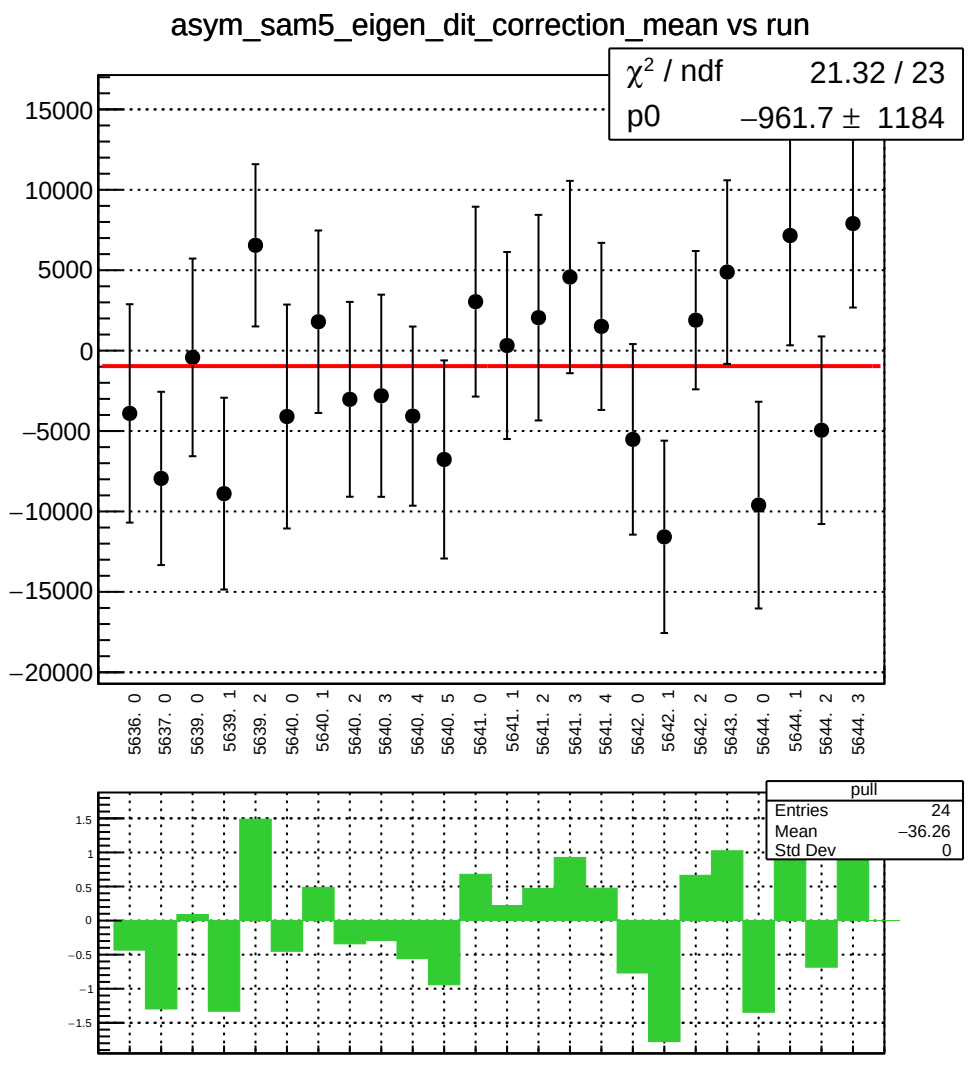
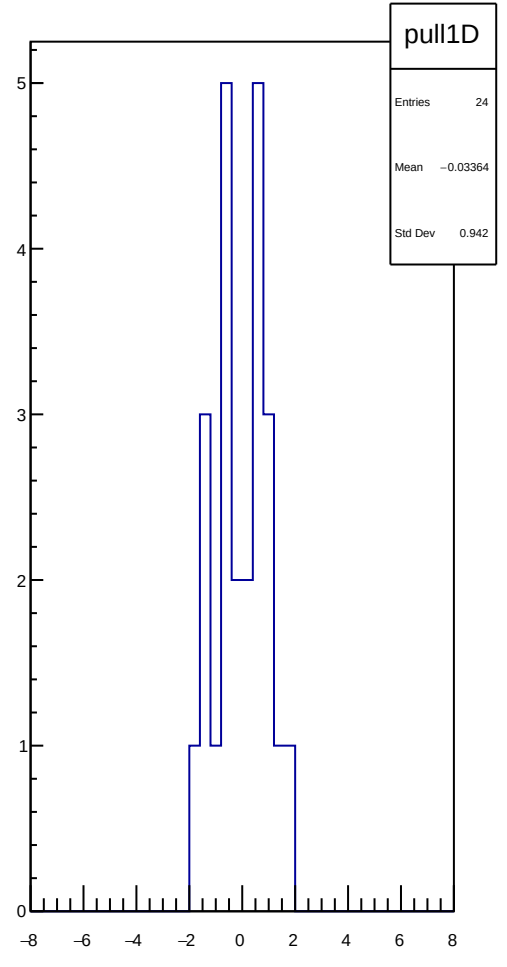
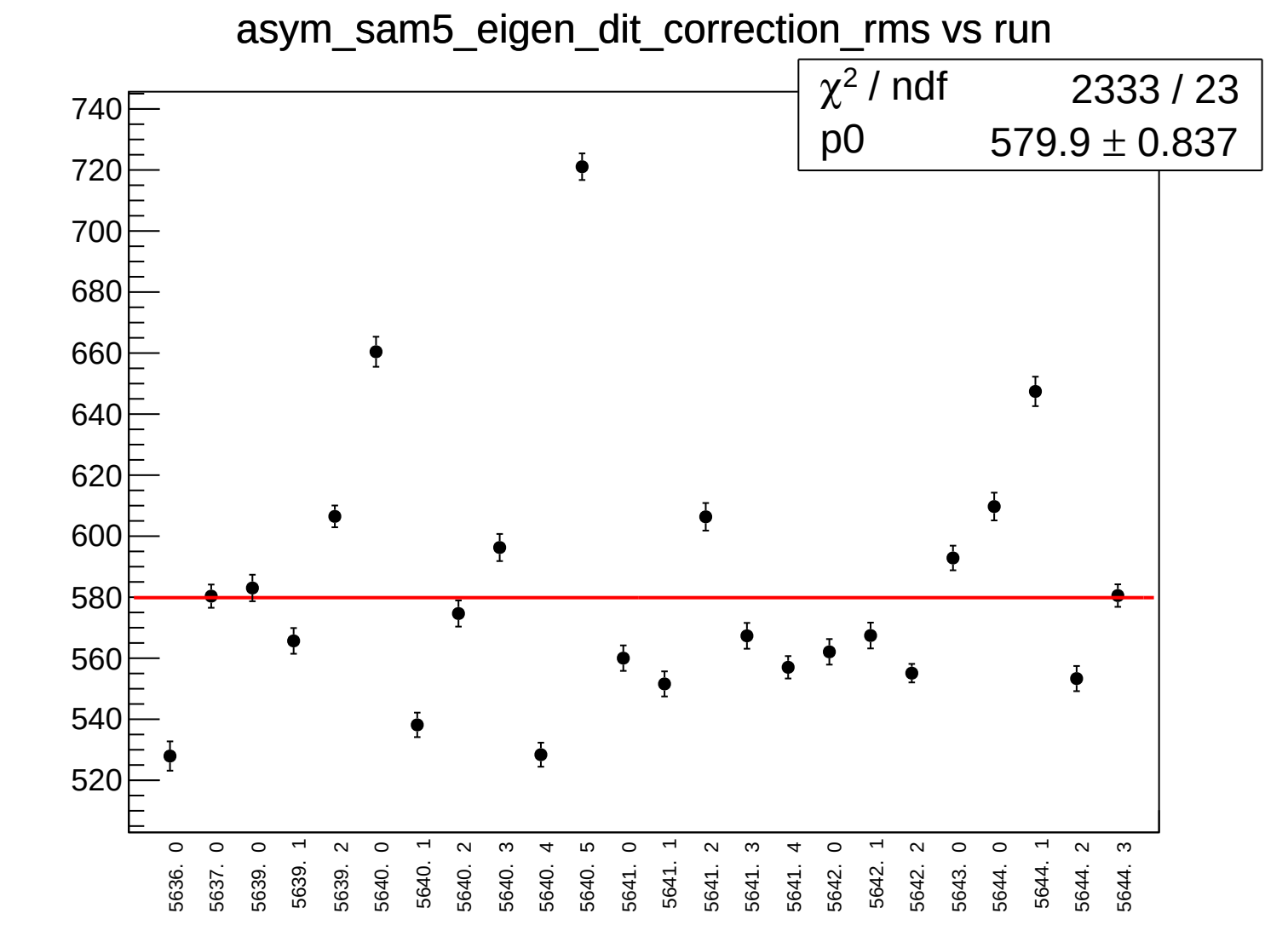
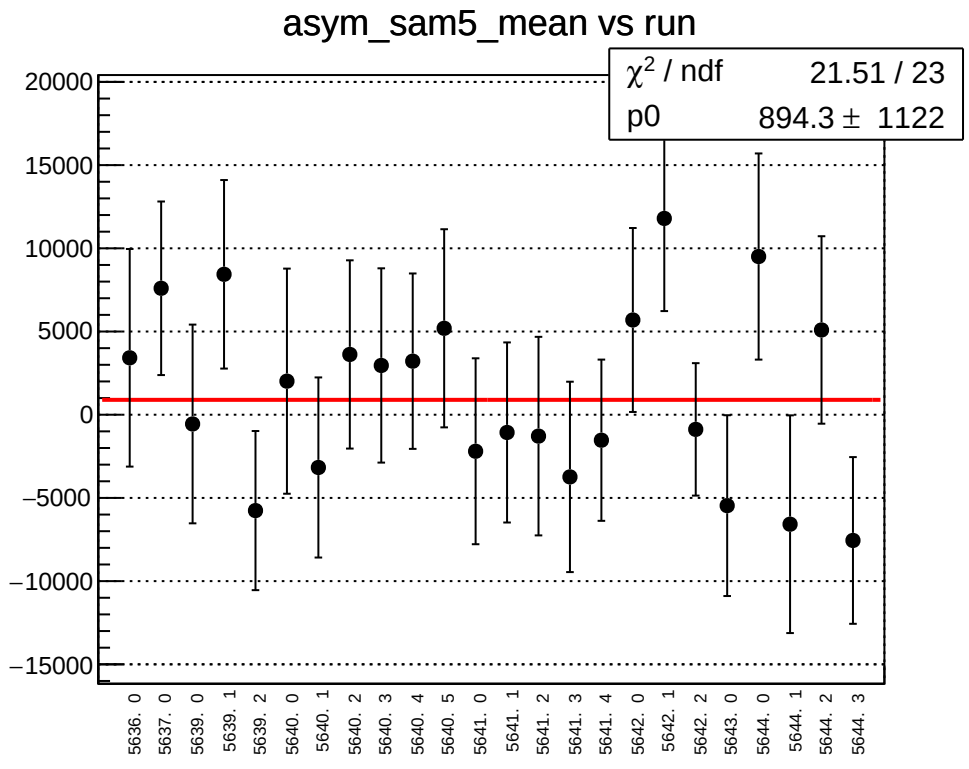
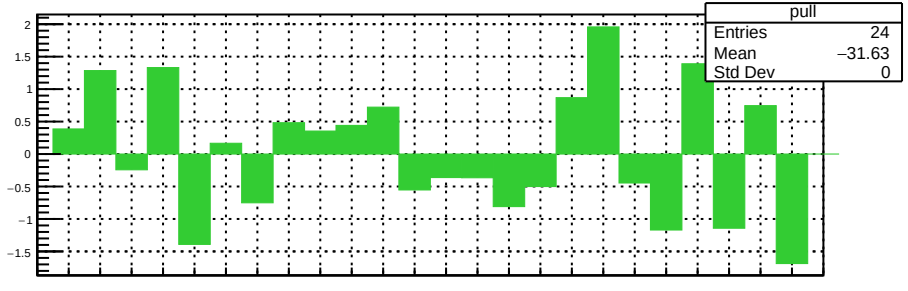
5644. 1
5644. 2
5644. 3

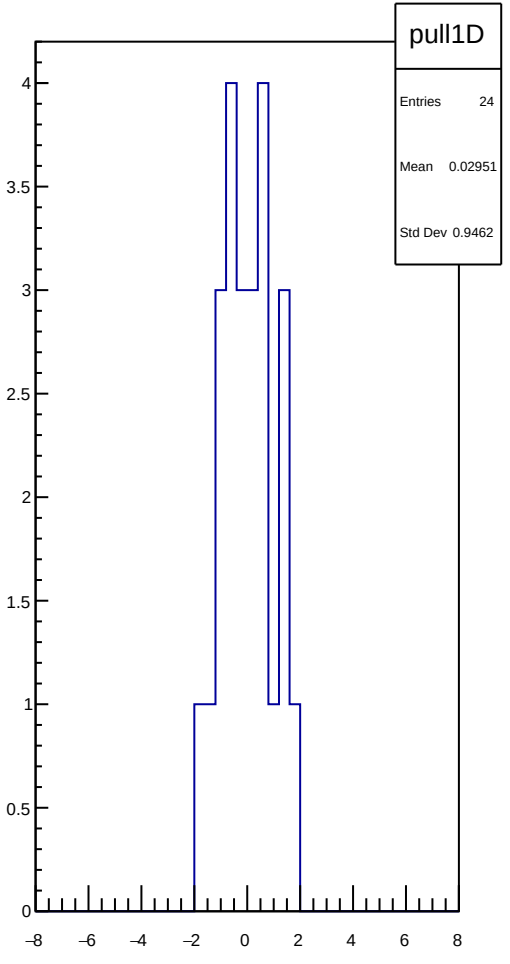

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 21.32 / 23
p0 −961.7 ± 1184
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −36.26
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

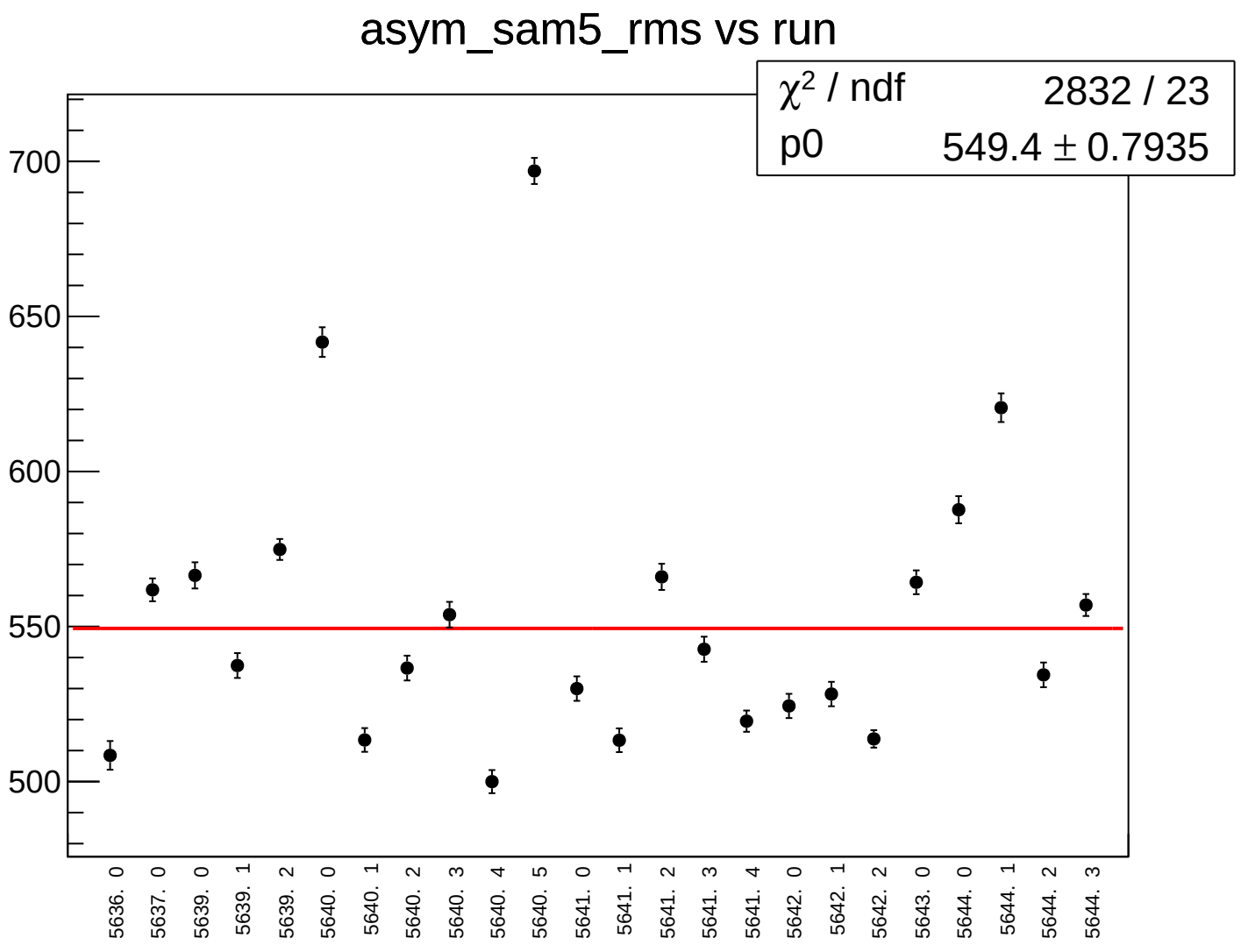

pull1D
Entries 24
Mean −0.03364
Std Dev 0.942
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

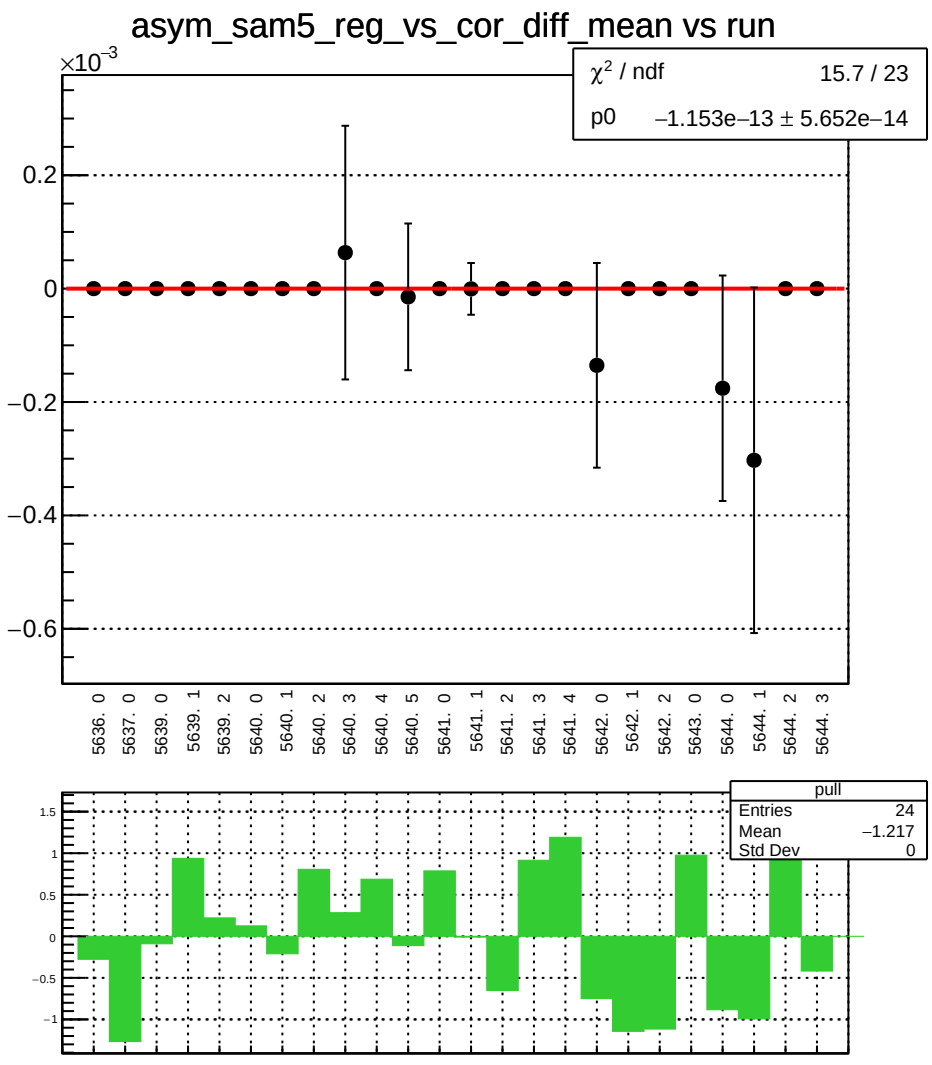

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 2333 / 23
p0 579.9 ± 0.837
740
720
700
680
660
640
620
600
580
560
540
520
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

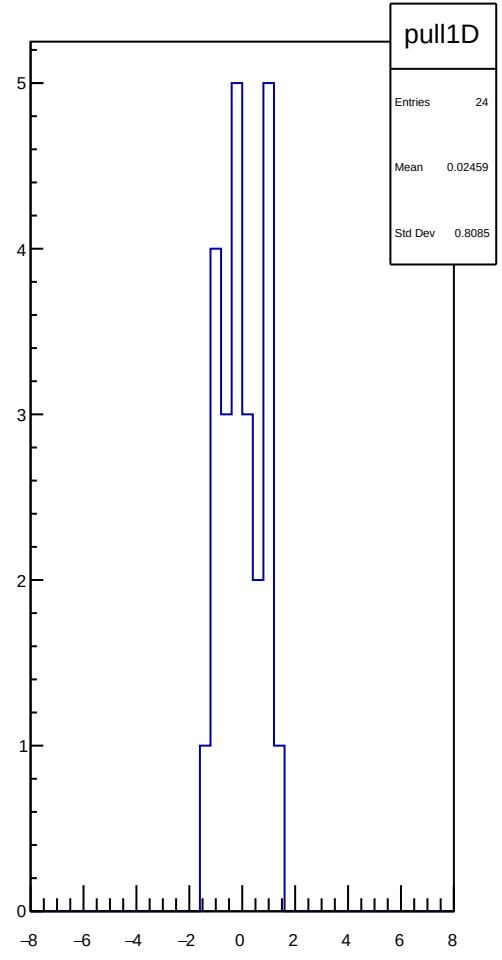

asym_sam5_mean vs run
χ² / ndf 21.51 / 23
p0 894.3 ± 1122
20000
15000
10000
5000
0
−5000
−10000
−15000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

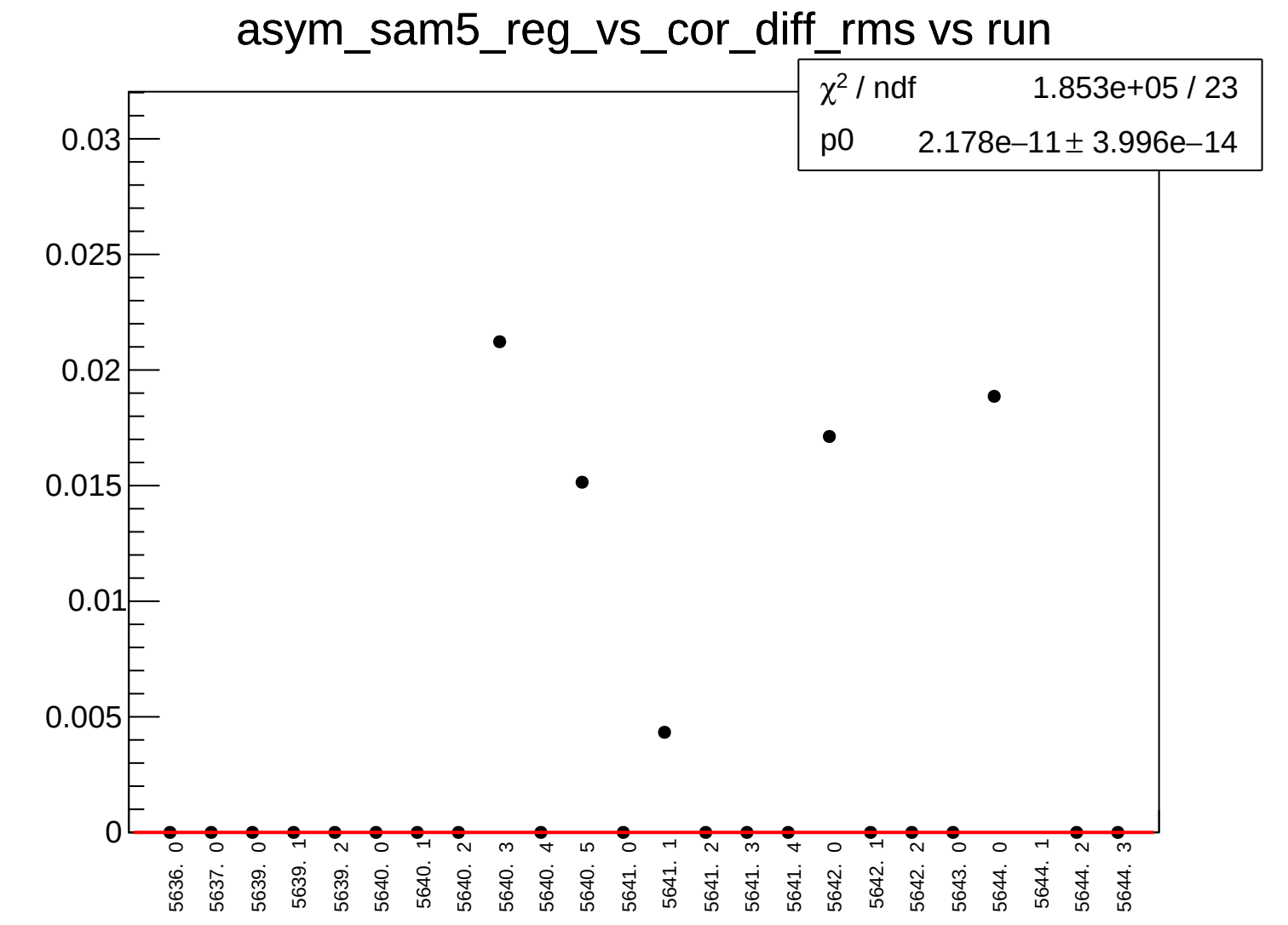

pull
Entries 24
Mean −31.63
Std Dev 0

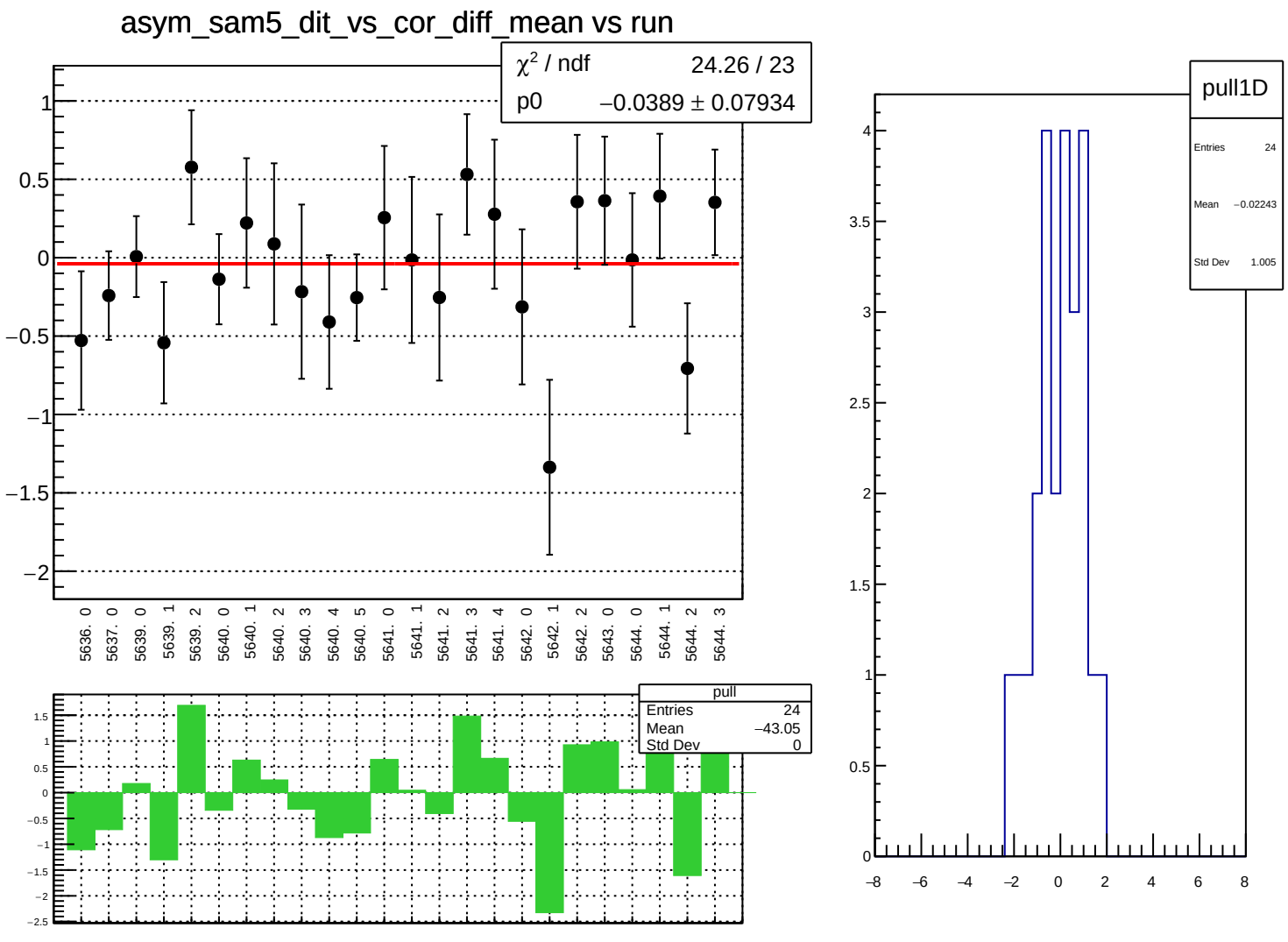

pull1D
Entries 24
Mean 0.02951
Std Dev 0.9462
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

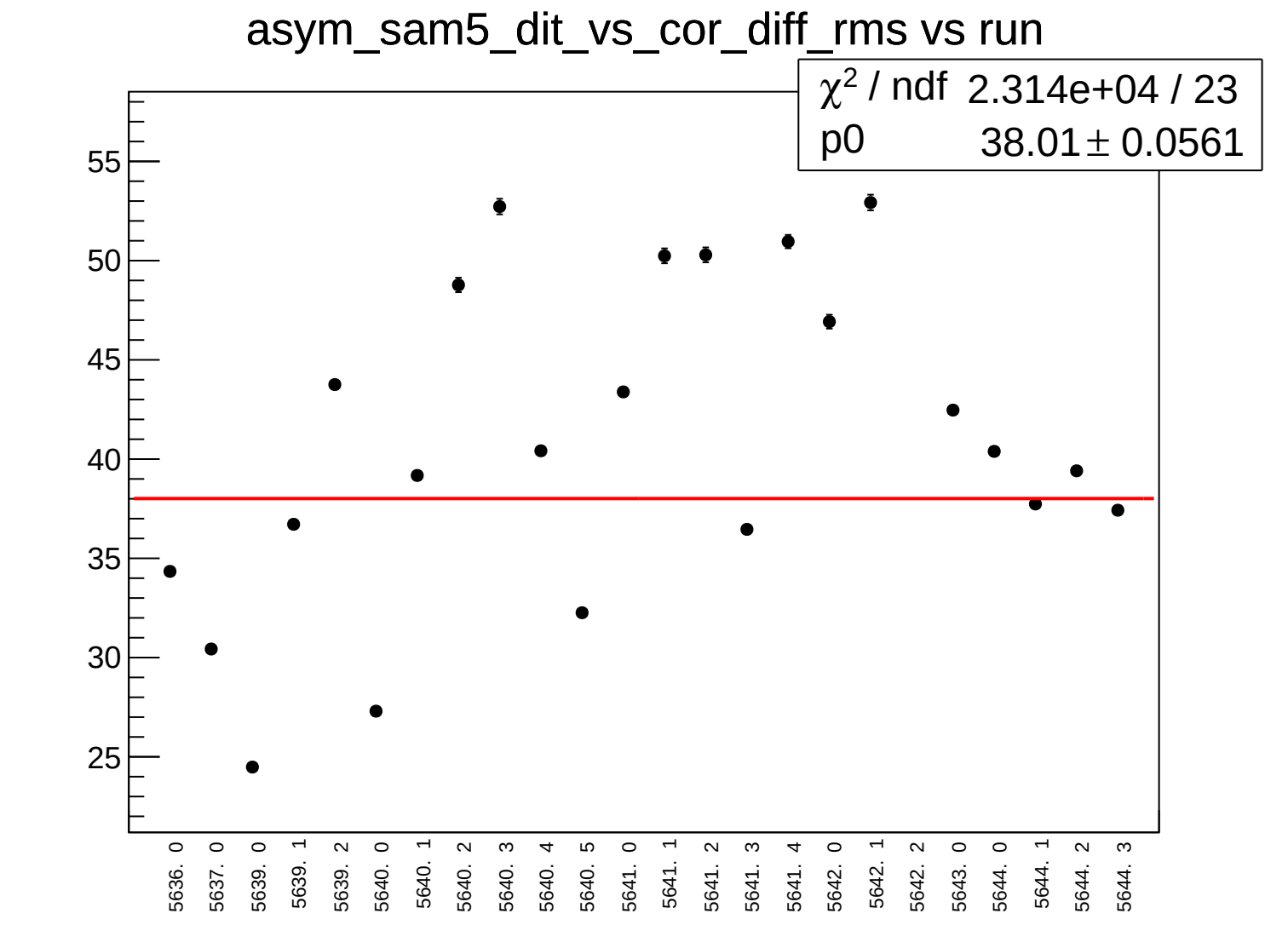

asym_sam5_rms vs run
χ² / ndf 2832 / 23
p0 549.4 ± 0.7935
700
650
600
550
500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

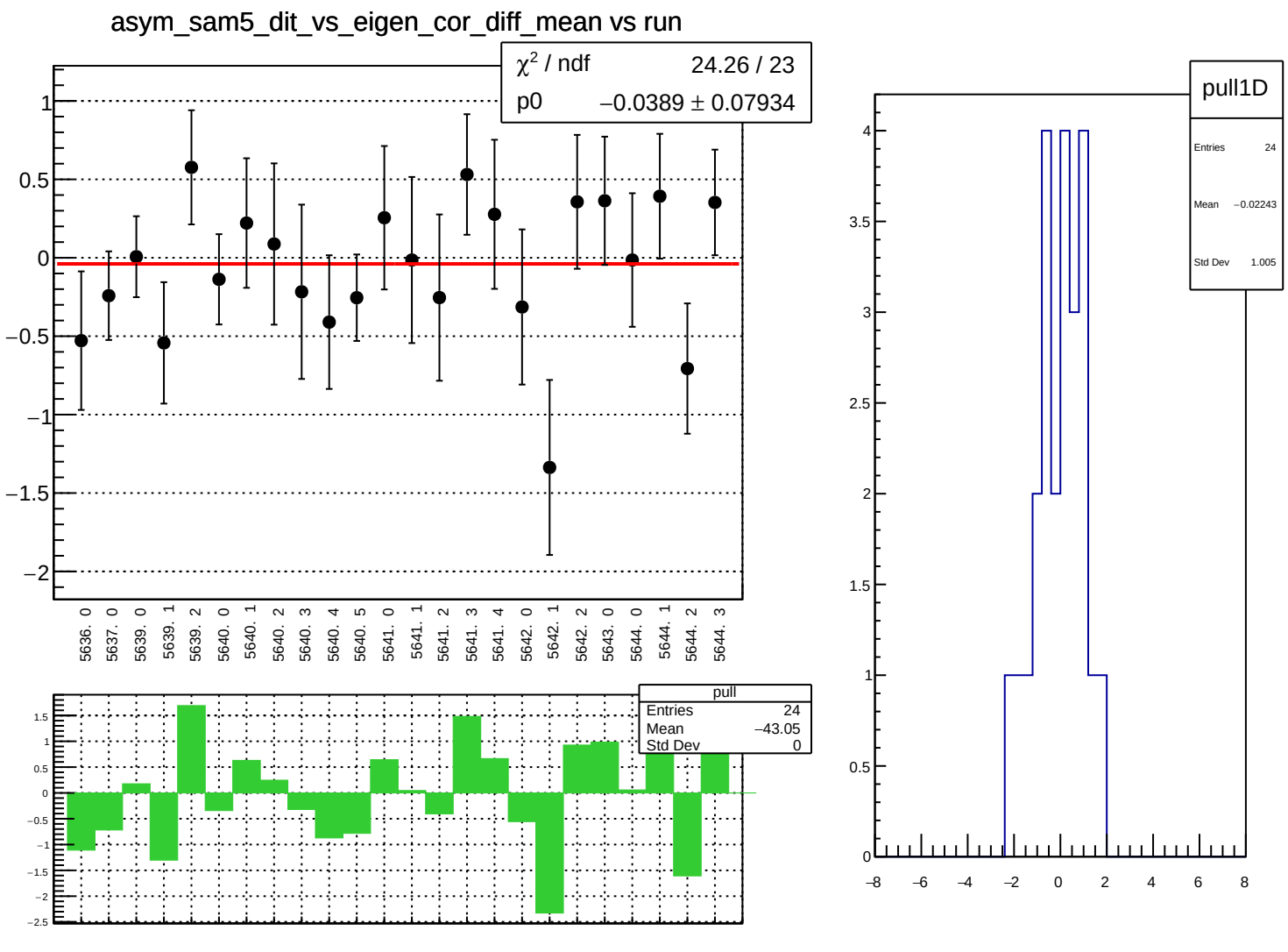

asym_sam5_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 15.7 / 23
p0 −1.153e−13 ± 5.652e−14
0.2
0
−0.2
−0.4
−0.6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −1.217
Std Dev 0
1.5
1
0.5
0
−0.5
−1

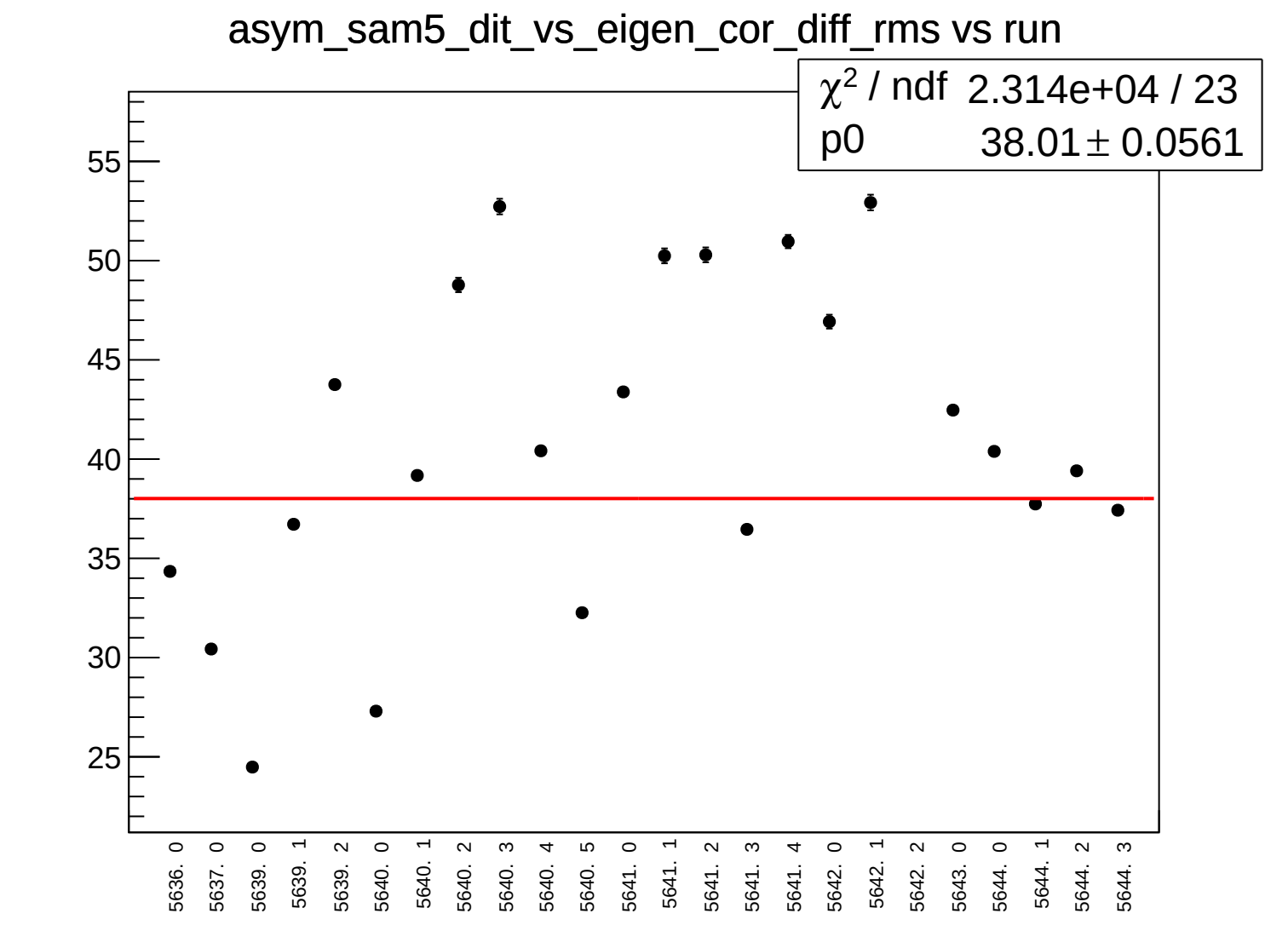

pull1D
Entries 24
Mean 0.02459
Std Dev 0.8085
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

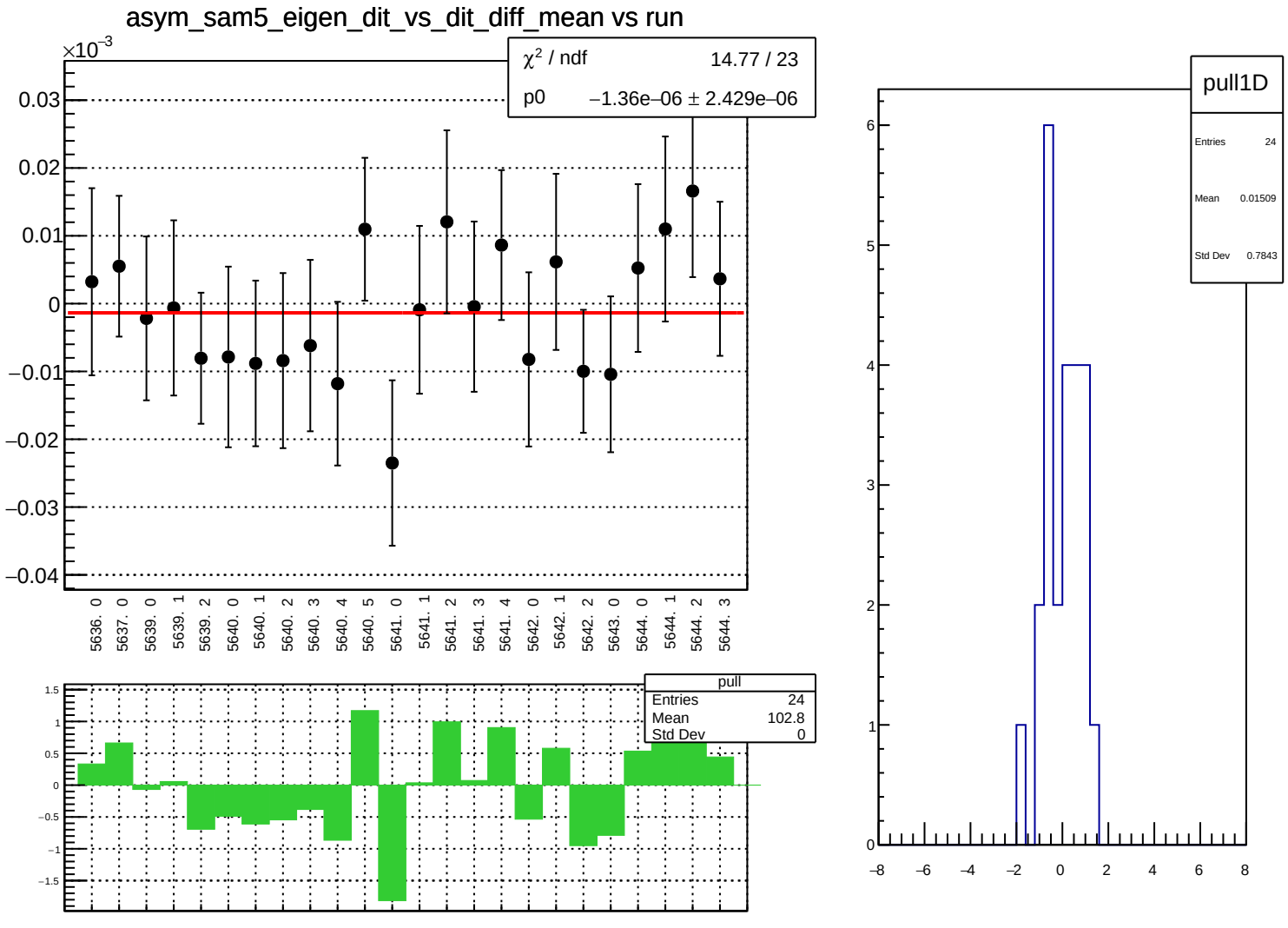

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 1.853e+05 / 23
p0 2.178e−11 ± 3.996e−14
0.03
0.025
0.02
0.015
0.01
0.005
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

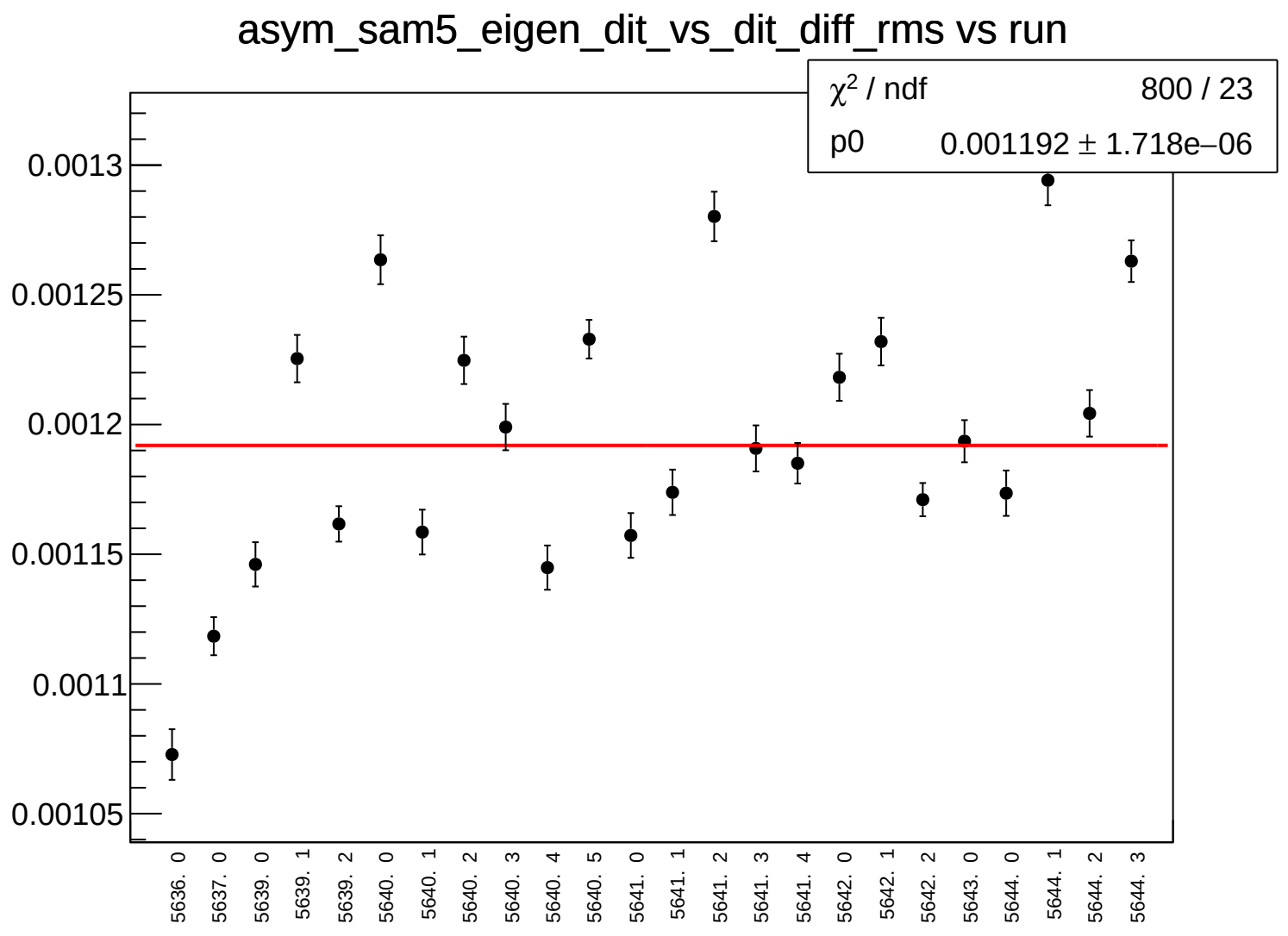

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 24.26 / 23
p0 −0.0389 ± 0.07934
1
0.5
0
−0.5
−1
−1.5
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −43.05
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean −0.02243
Std Dev 1.005
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

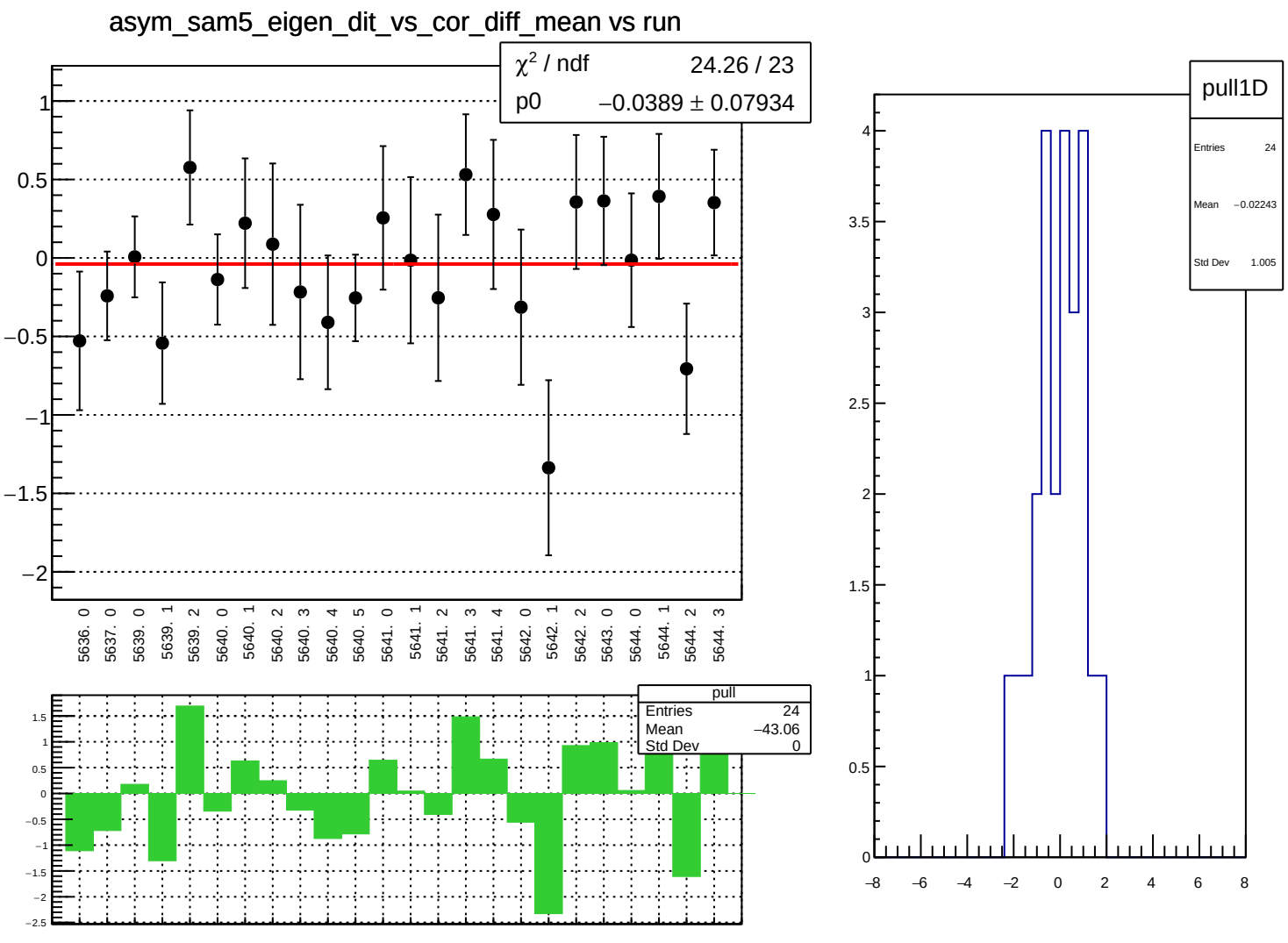

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 2.314e+04 / 23
p0 38.01 ± 0.0561
55
50
45
40
35
30
25
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

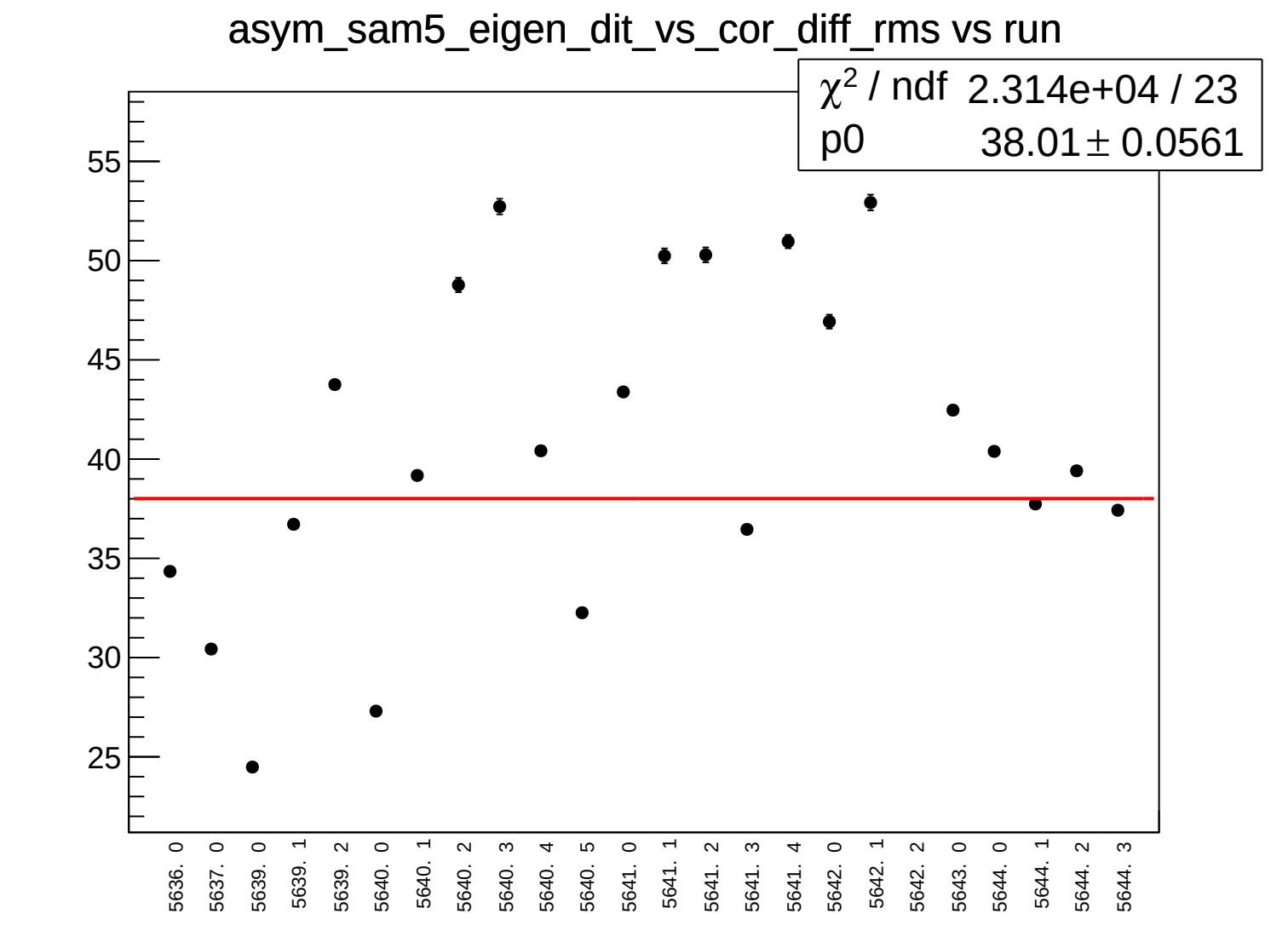

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.26 / 23
p0 −0.0389 ± 0.07934
1
0.5
0
−0.5
−1
−1.5
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −43.05
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean −0.02243
Std Dev 1.005
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

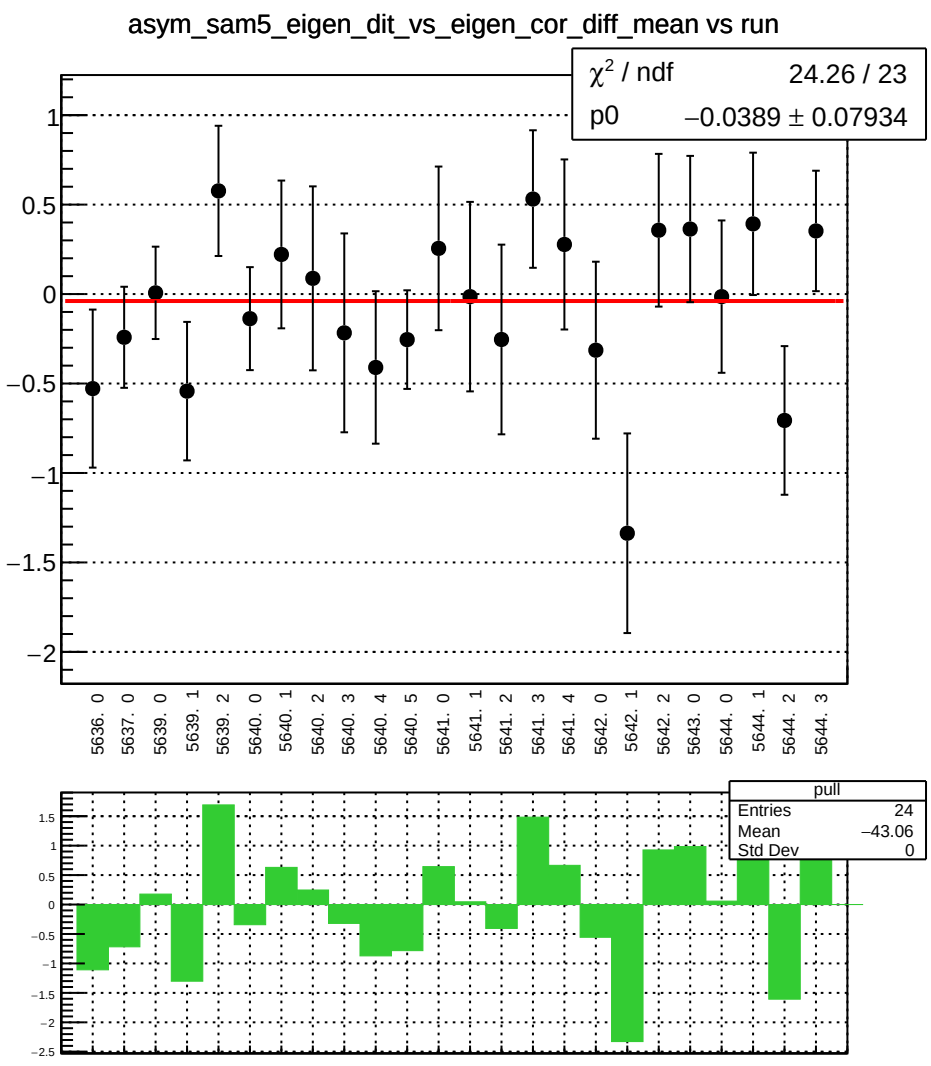

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.314e+04 / 23
p0 38.01 ± 0.0561
55
50
45
40
35
30
25
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

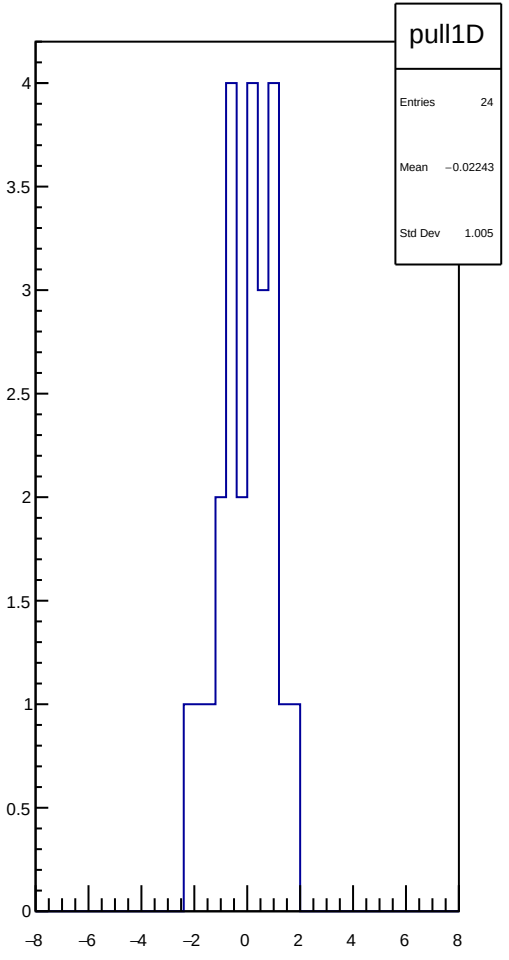

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 14.77 / 23
p0 −1.36e−06 ± 2.429e−06
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 102.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.01509
Std Dev 0.7843
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

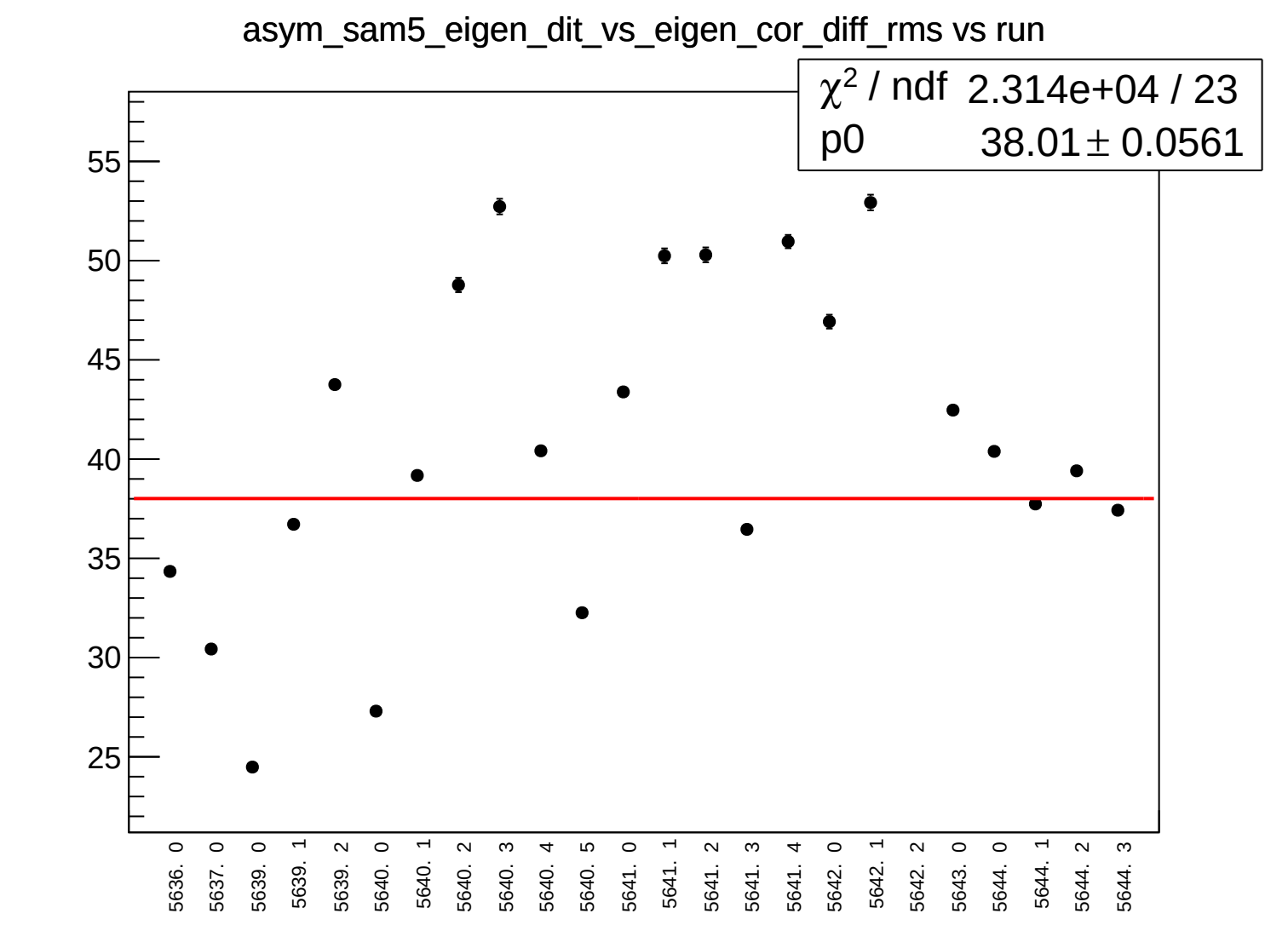

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 800 / 23
p0 0.001192 ± 1.718e−06
0.0013
0.00125
0.0012
0.00115
0.0011
0.00105
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

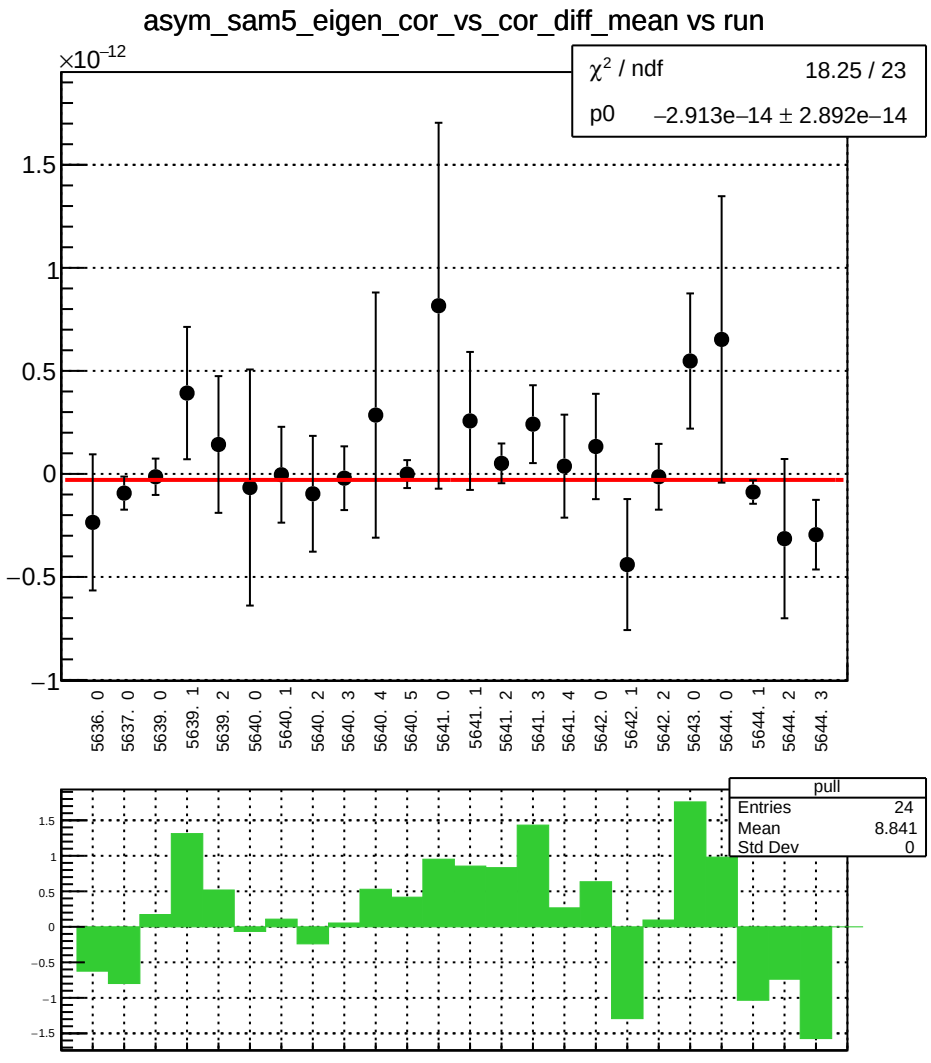

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 24.26 / 23
p0 −0.0389 ± 0.07934
1
0.5
0
−0.5
−1
−1.5
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −43.06
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean −0.02243
Std Dev 1.005
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

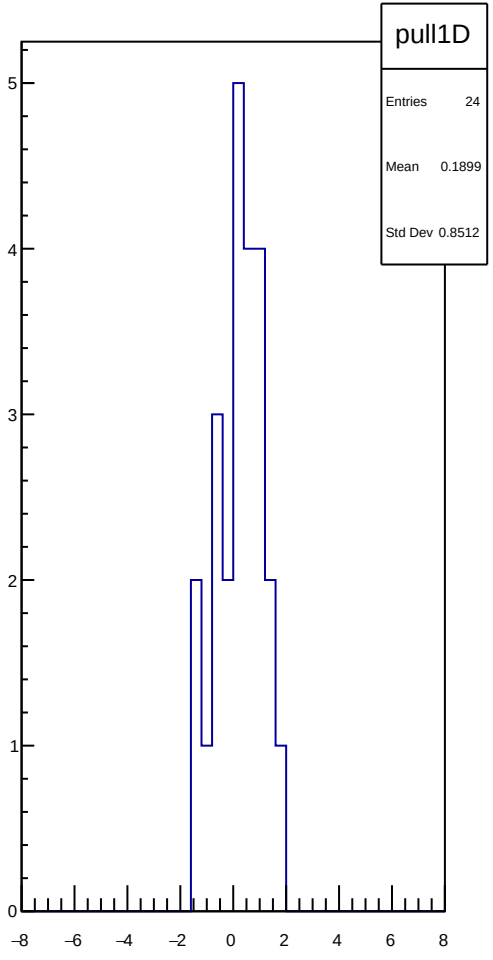

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.314e+04 / 23
p0 38.01 ± 0.0561
55
50
45
40
35
30
25
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

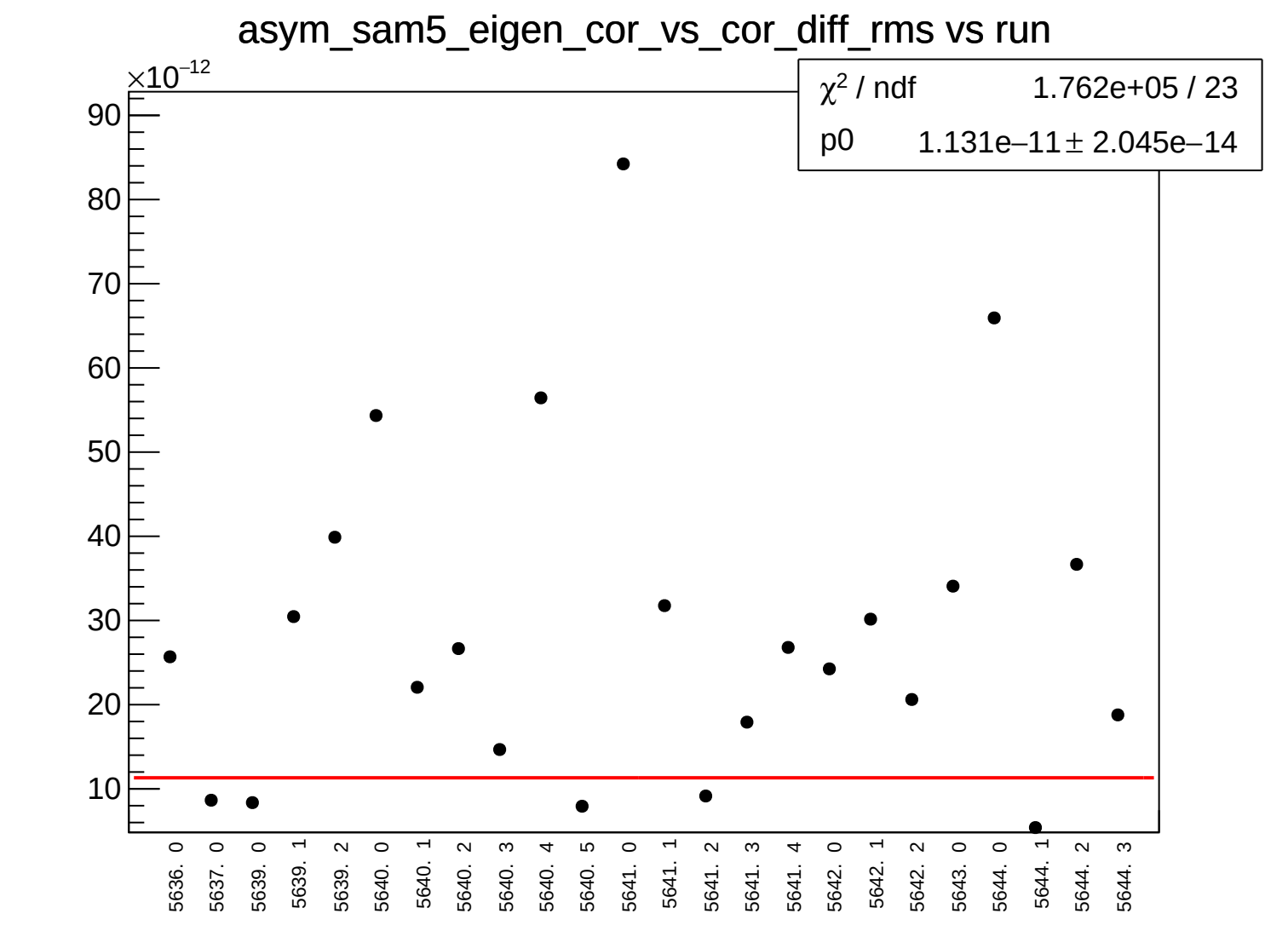

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.26 / 23
p0 −0.0389 ± 0.07934
1
0.5
0
−0.5
−1
−1.5
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −43.06
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

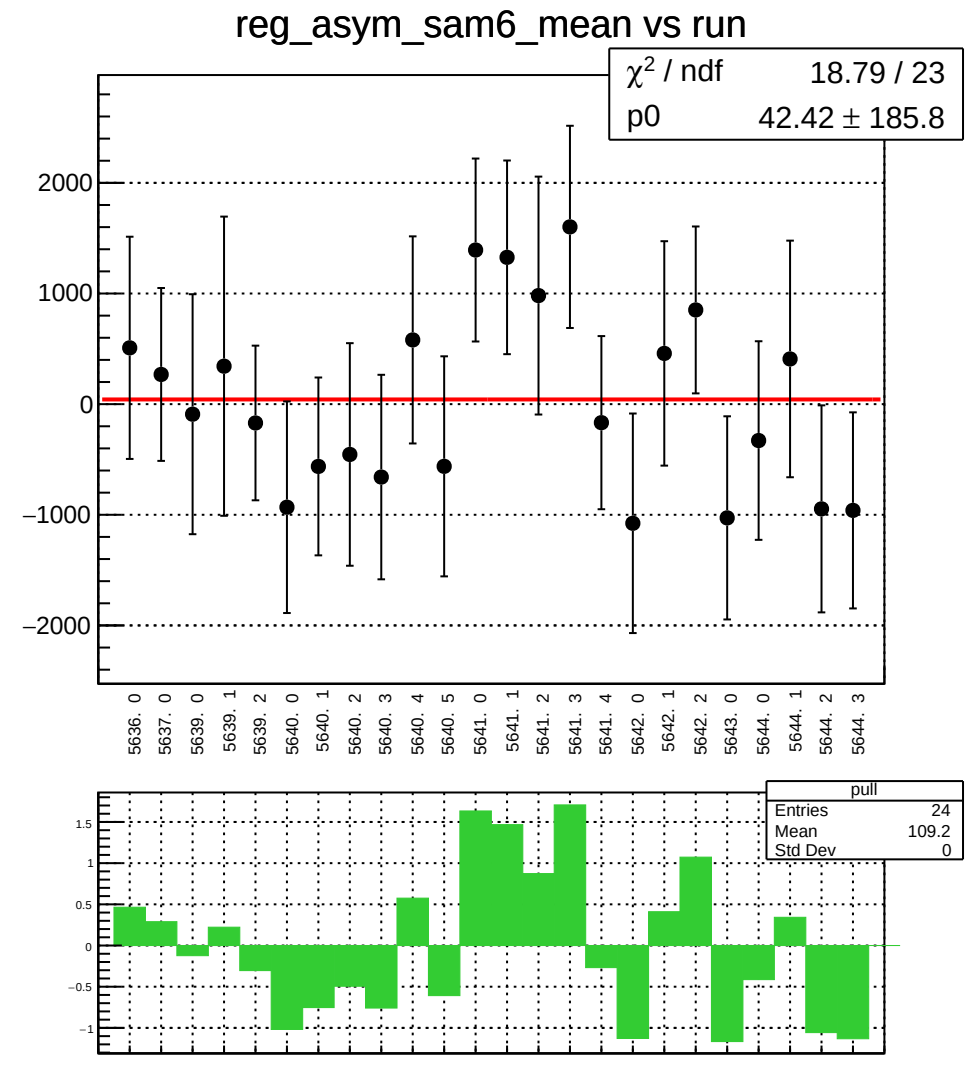

pull1D
Entries 24
Mean −0.02243
Std Dev 1.005
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

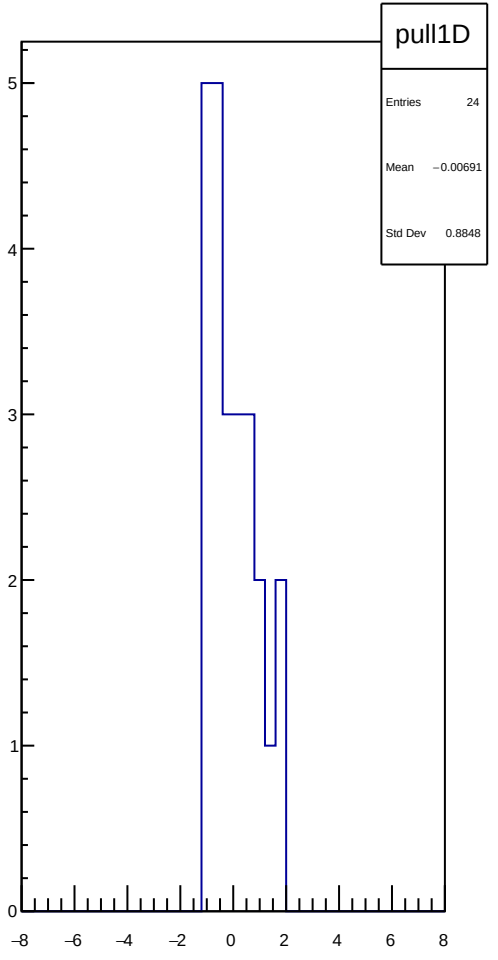

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.314e+04 / 23
p0 38.01 ± 0.0561
55
50
45
40
35
30
25
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

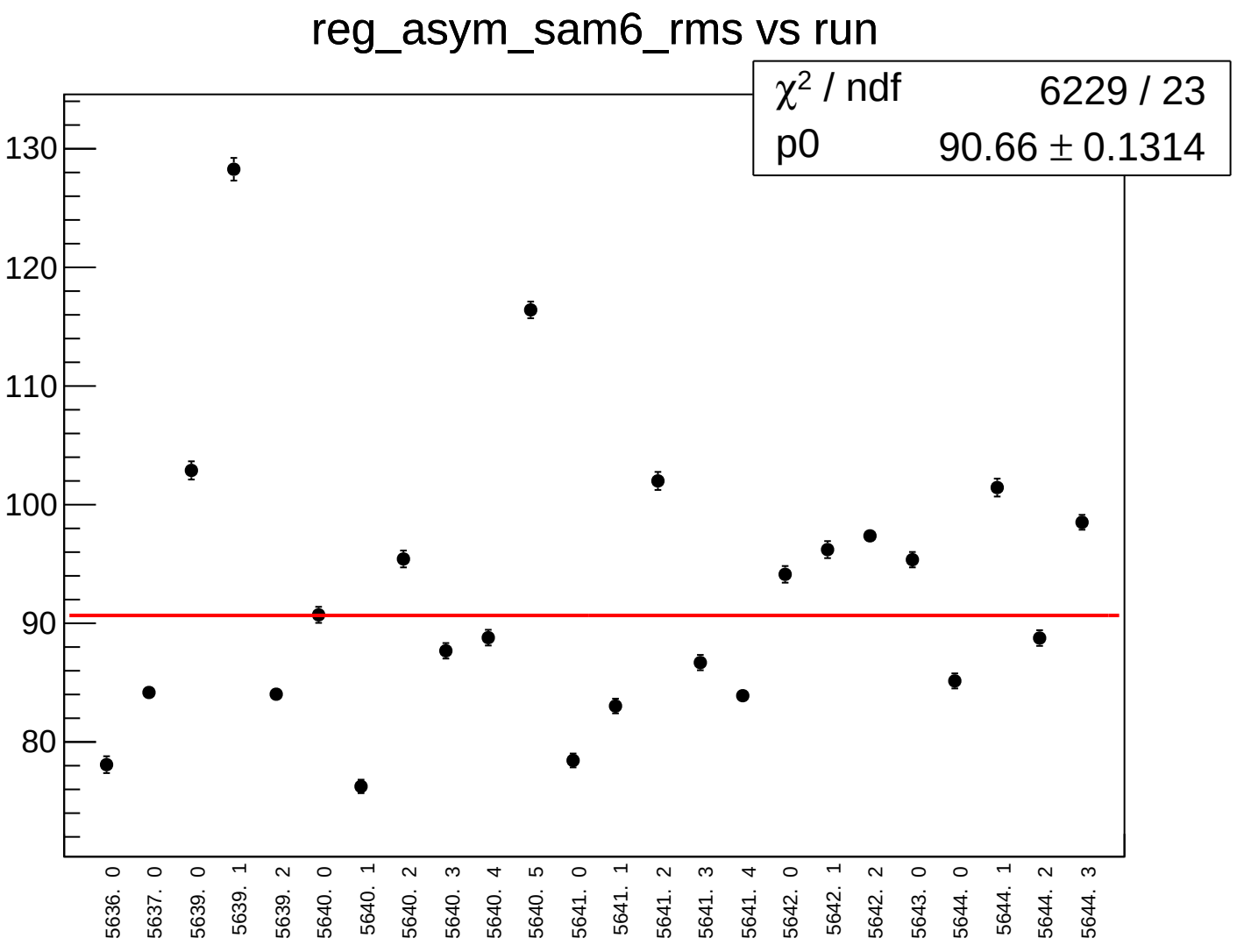

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 18.25 / 23
p0 −2.913e−14 ± 2.892e−14
1.5
1
0.5
0
−0.5
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 8.841
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

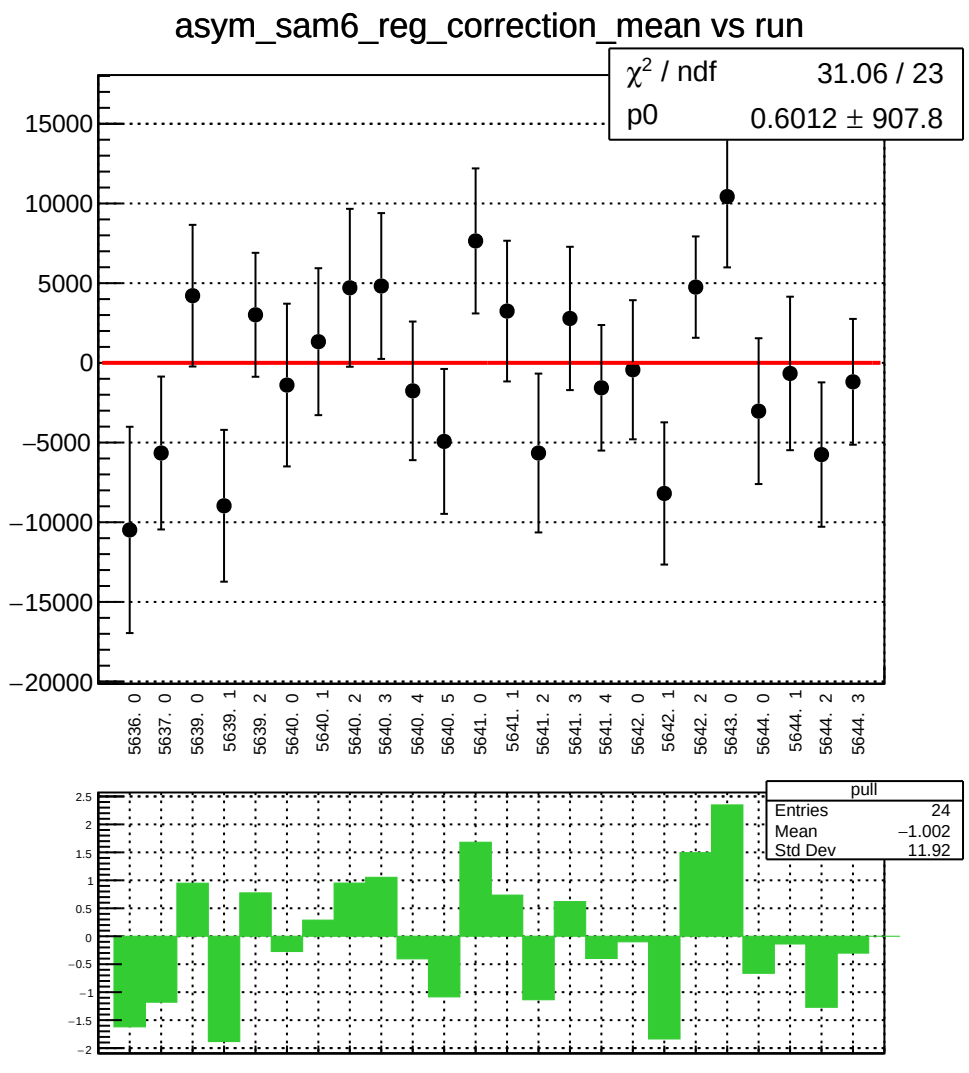

pull1D
Entries 24
Mean 0.1899
Std Dev 0.8512
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

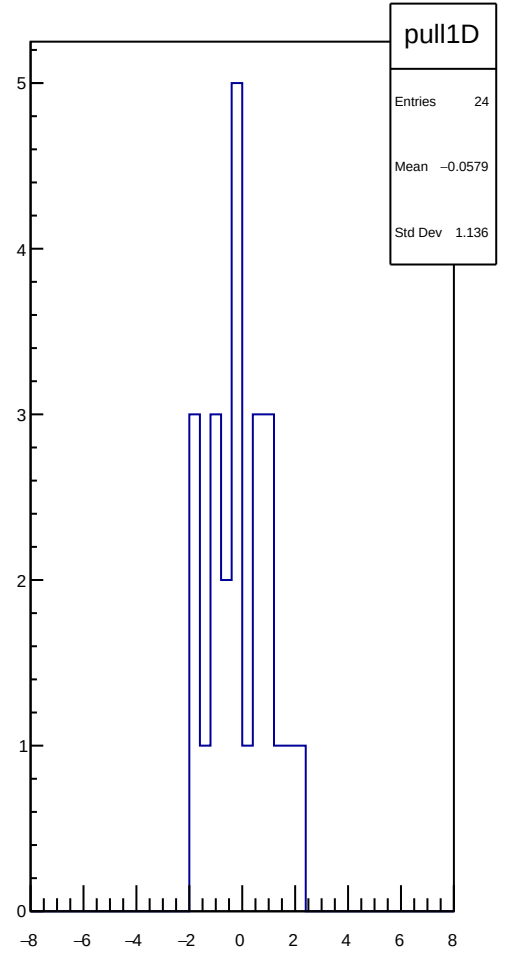

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.762e+05 / 23
p0 1.131e−11 ± 2.045e−14
90
80
70
60
50
40
30
20
10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

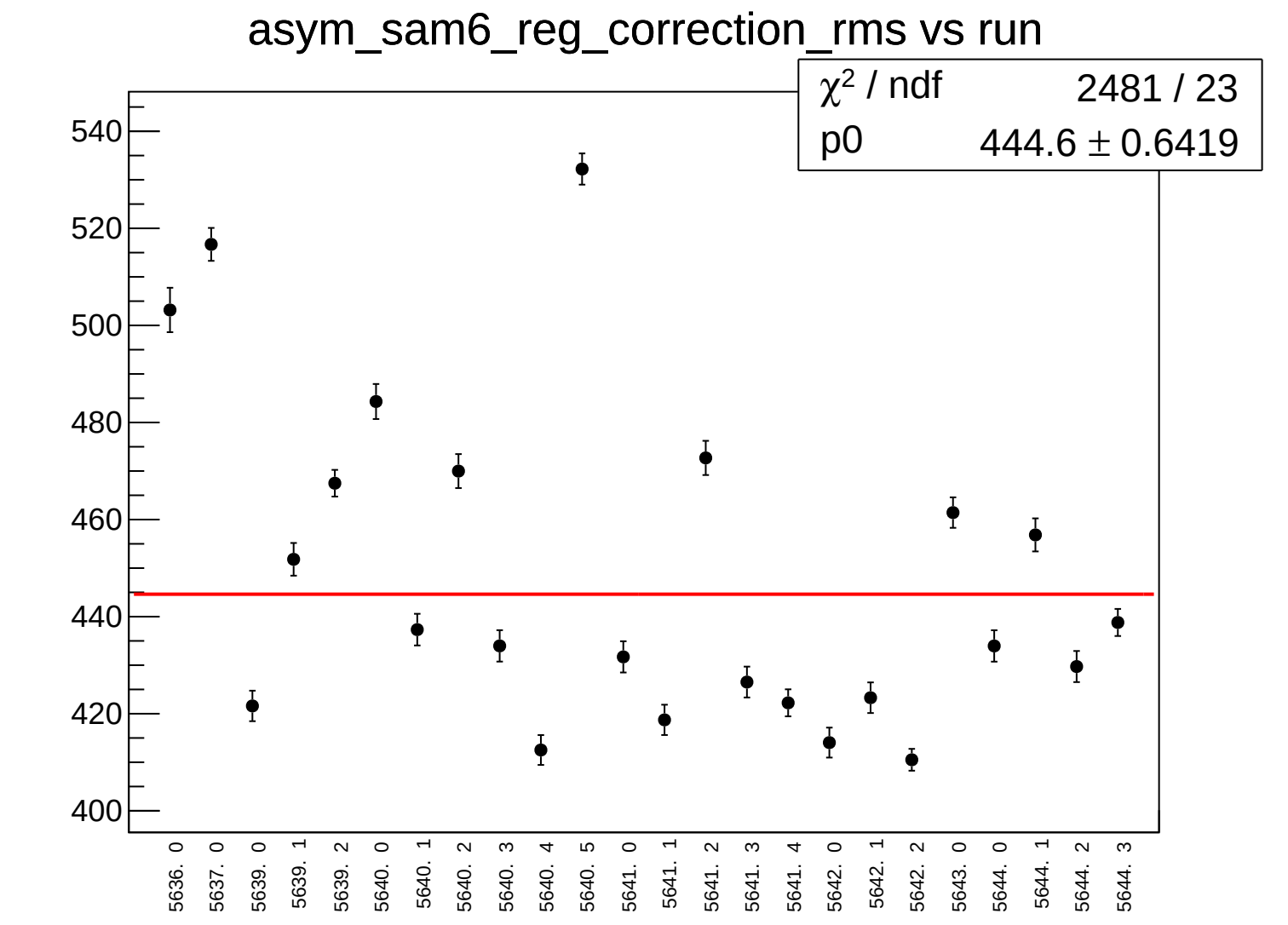

reg_asym_sam6_mean vs run
χ² / ndf 18.79 / 23
p0 42.42 ± 185.8
2000
1000
0
−1000
−2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 109.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1

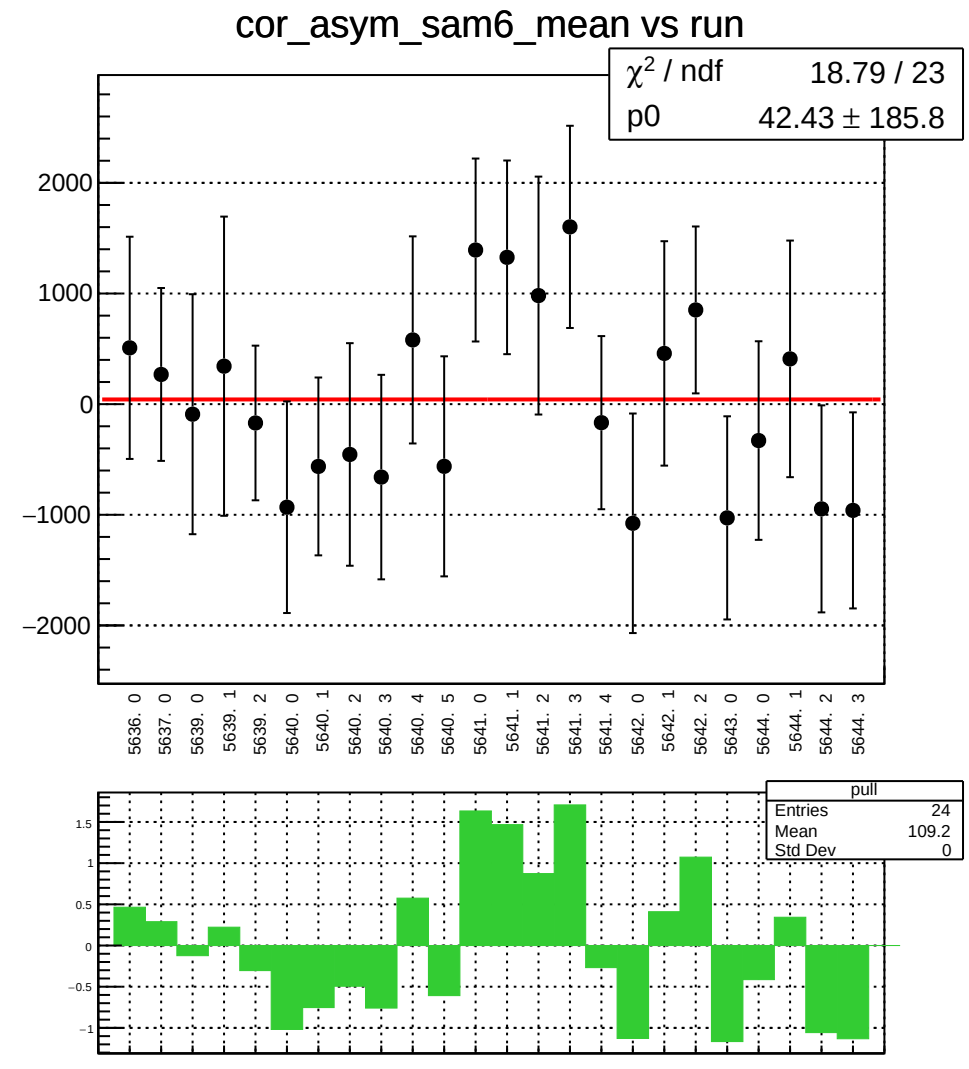

pull1D
Entries 24
Mean −0.00691
Std Dev 0.8848
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

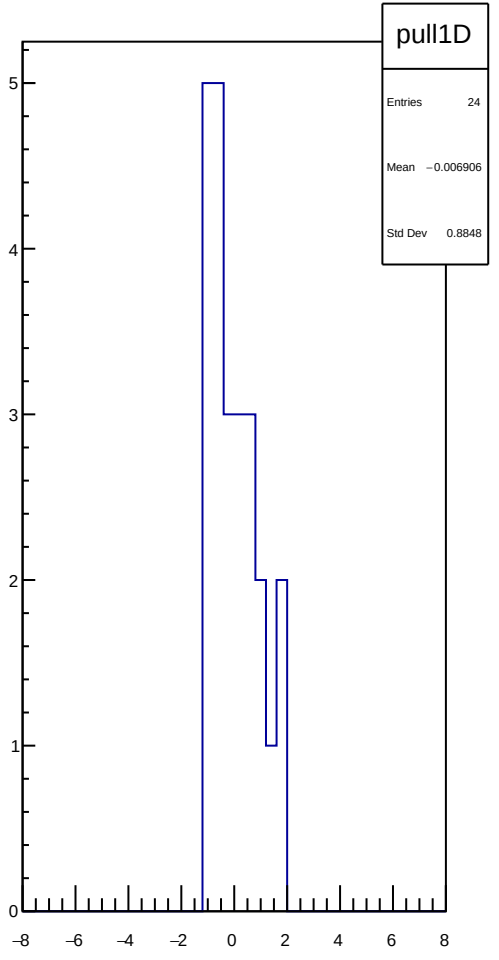

reg_asym_sam6_rms vs run
χ² / ndf 6229 / 23
p0 90.66 ± 0.1314
130
120
110
100
90
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

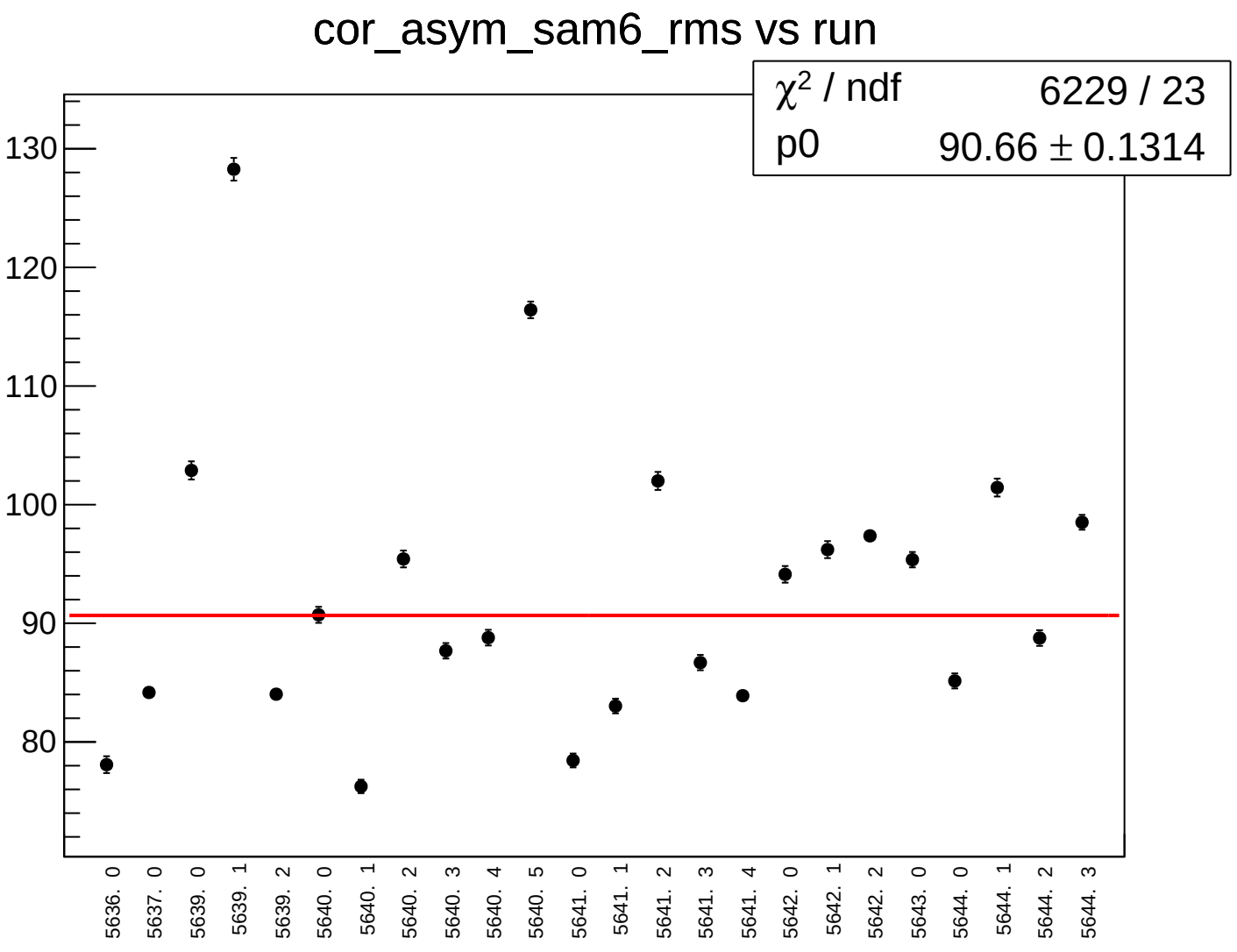

asym_sam6_reg_correction_mean vs run
χ² / ndf 31.06 / 23
p0 0.6012 ± 907.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −1.002
Std Dev 11.92
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.0579
Std Dev 1.136
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam6_reg_correction_rms vs run
χ² / ndf 2481 / 23
p0 444.6 ± 0.6419
540
520
500
480
460
440
420
400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


cor_asym_sam6_mean vs run
χ² / ndf 18.79 / 23
p0 42.43 ± 185.8
2000
1000
0
−1000
−2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 109.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 24
Mean −0.006906
Std Dev 0.8848
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam6_rms vs run
χ² / ndf 6229 / 23
p0 90.66 ± 0.1314
130
120
110
100
90
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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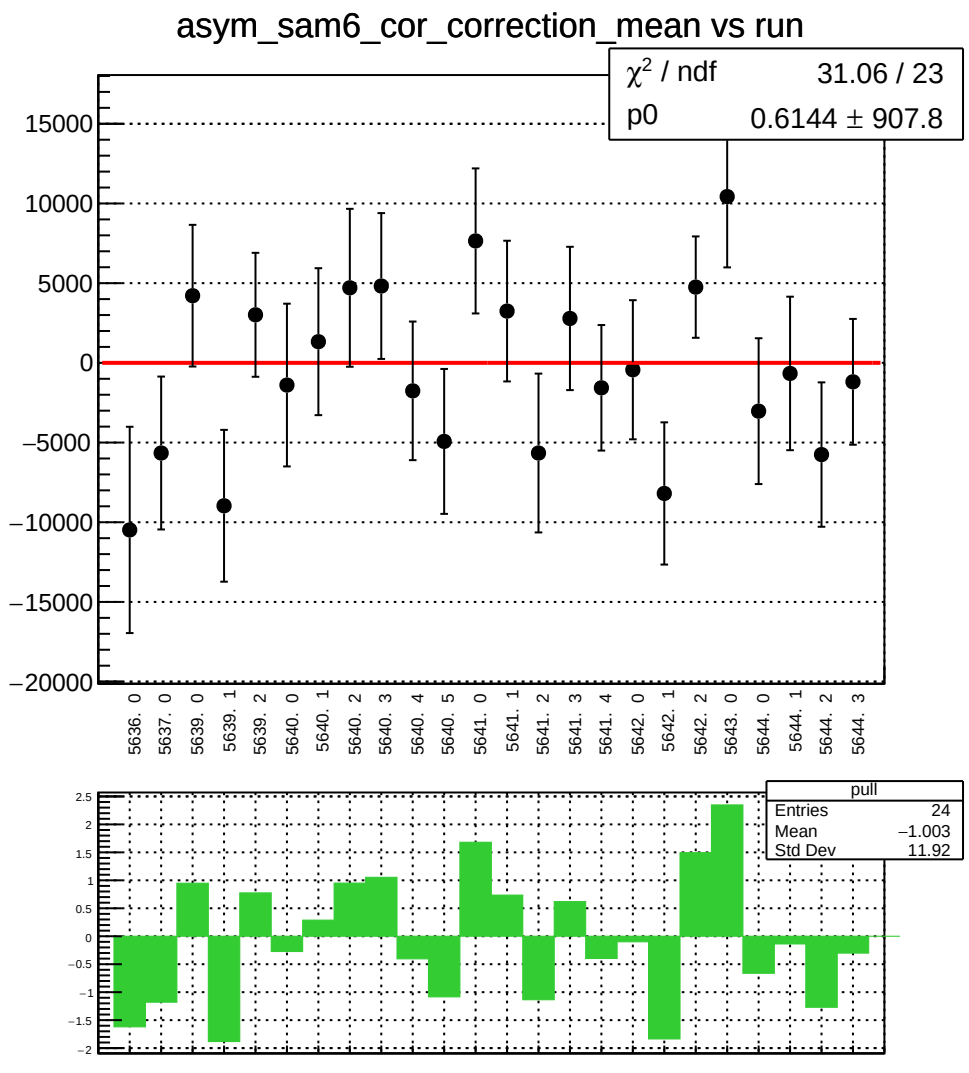
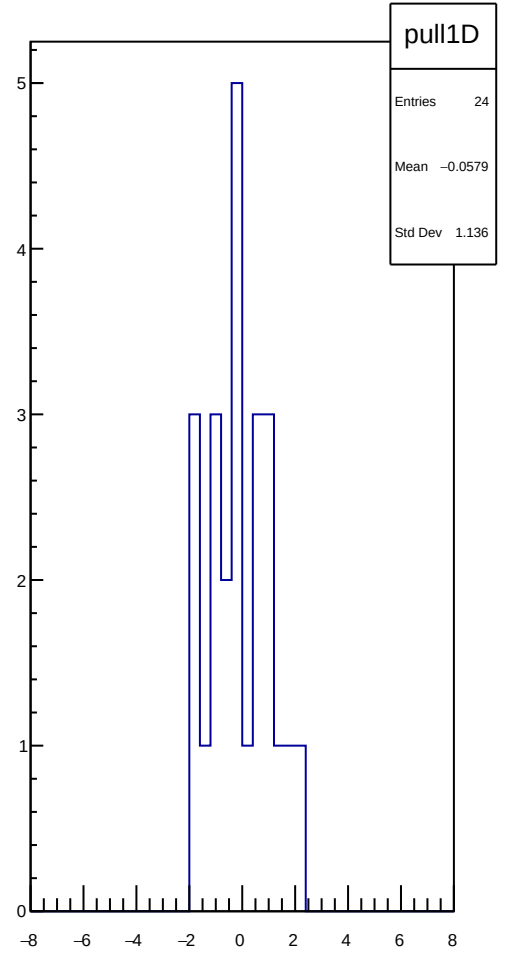
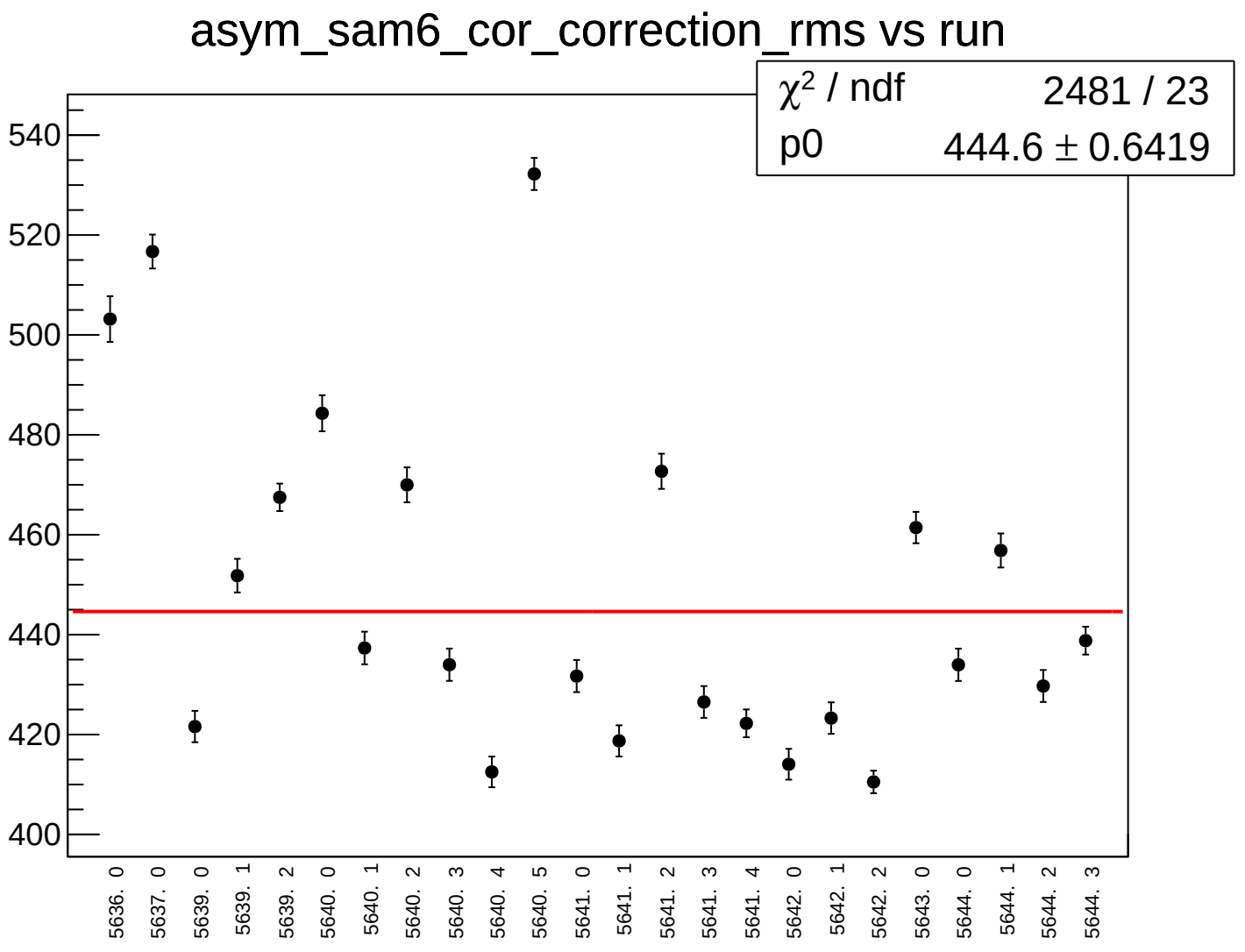
5644. 2
5644. 3


asym_sam6_cor_correction_mean vs run
χ² / ndf 31.06 / 23
p0 0.6144 ± 907.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −1.003
Std Dev 11.92
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.0579
Std Dev 1.136
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam6_cor_correction_rms vs run
χ² / ndf 2481 / 23
p0 444.6 ± 0.6419
540
520
500
480
460
440
420
400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
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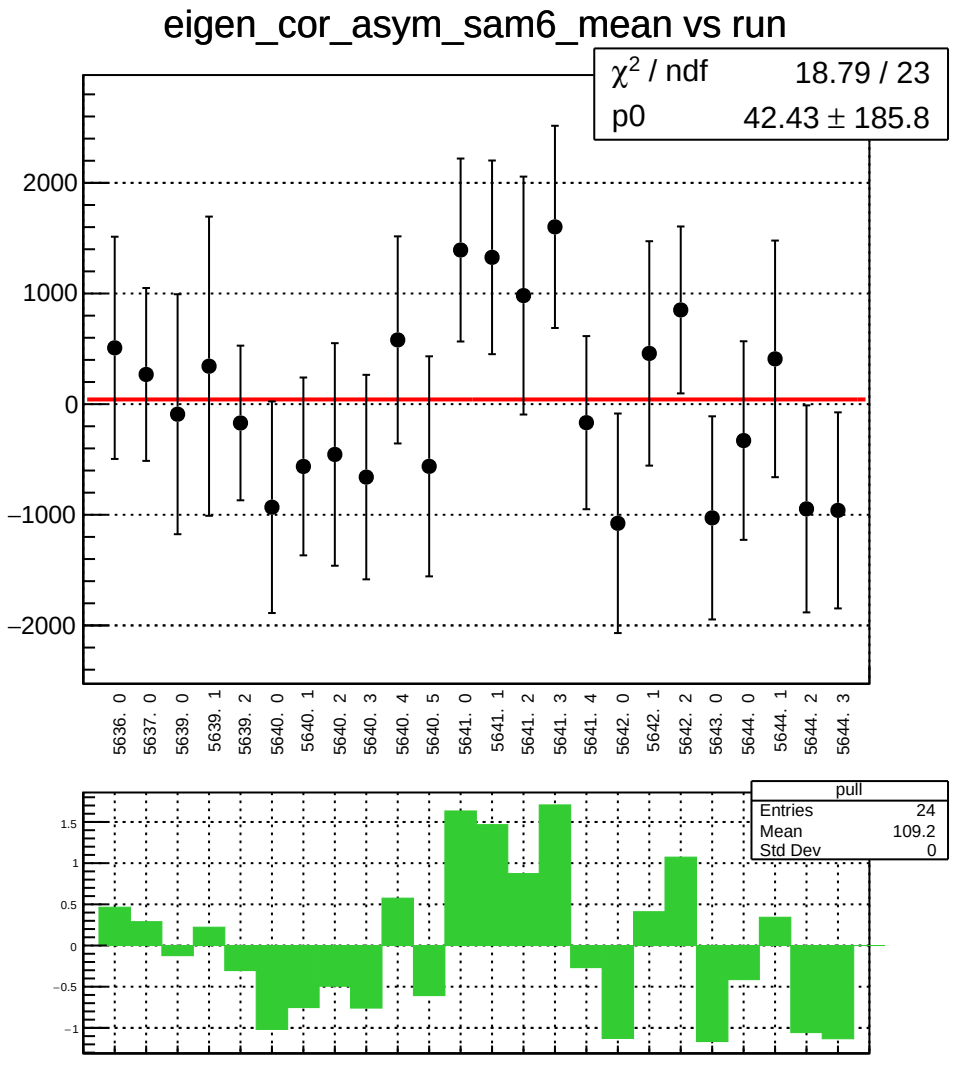
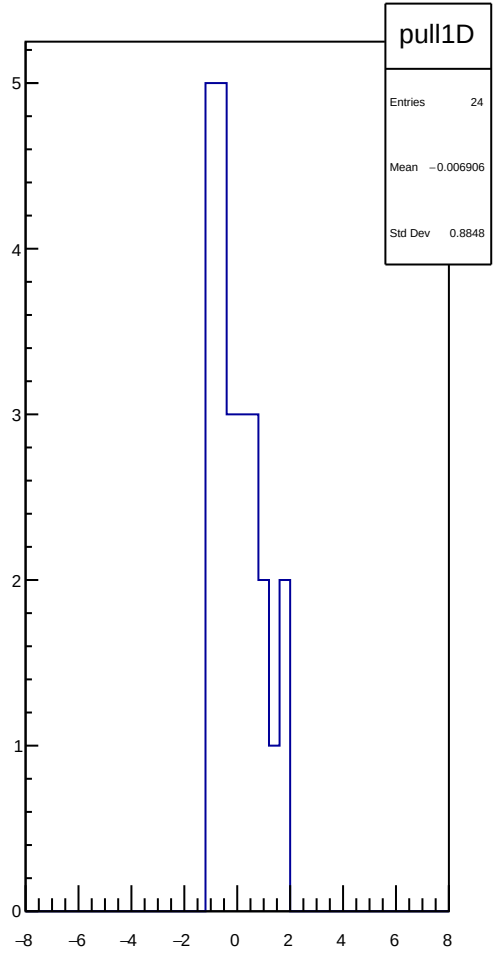
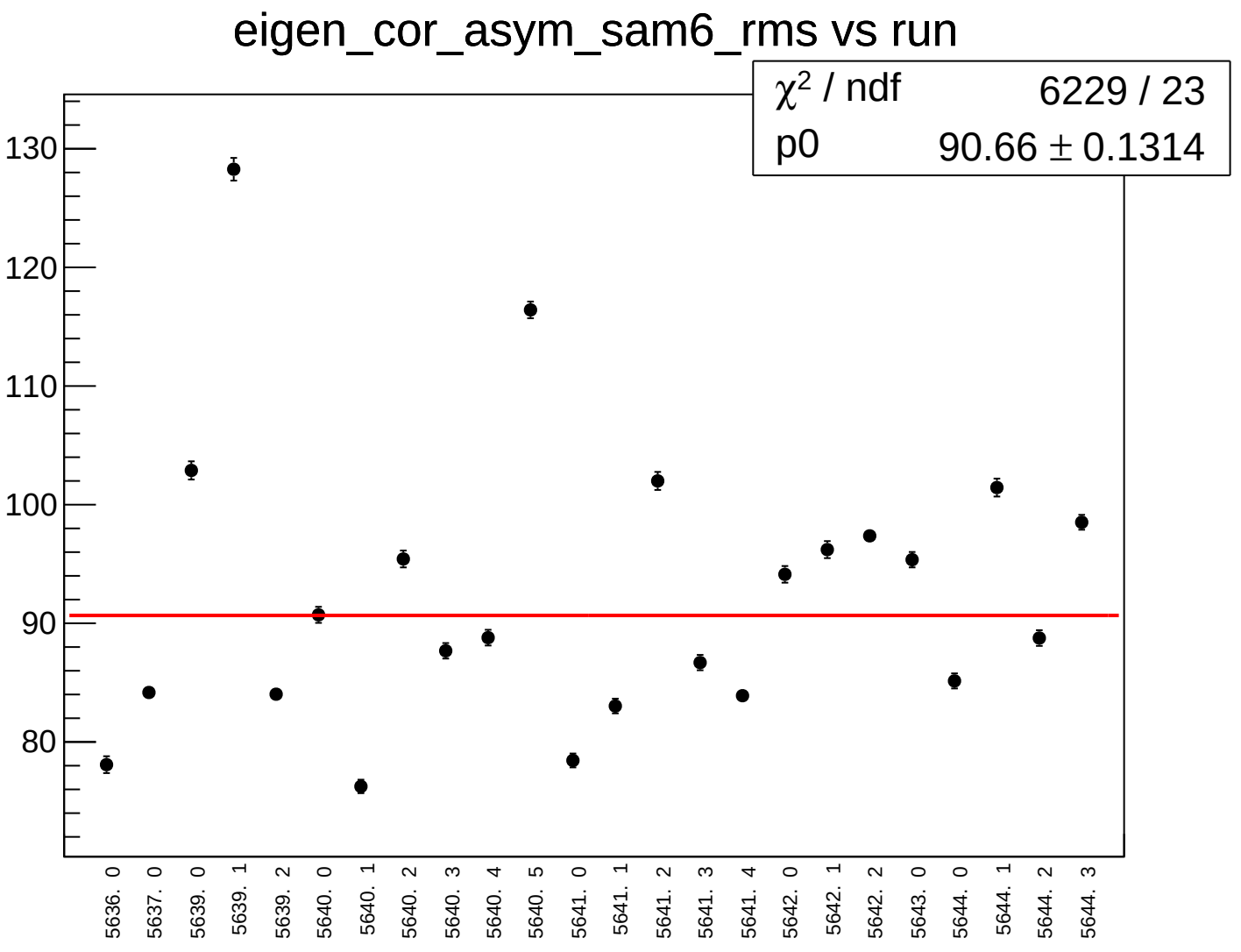
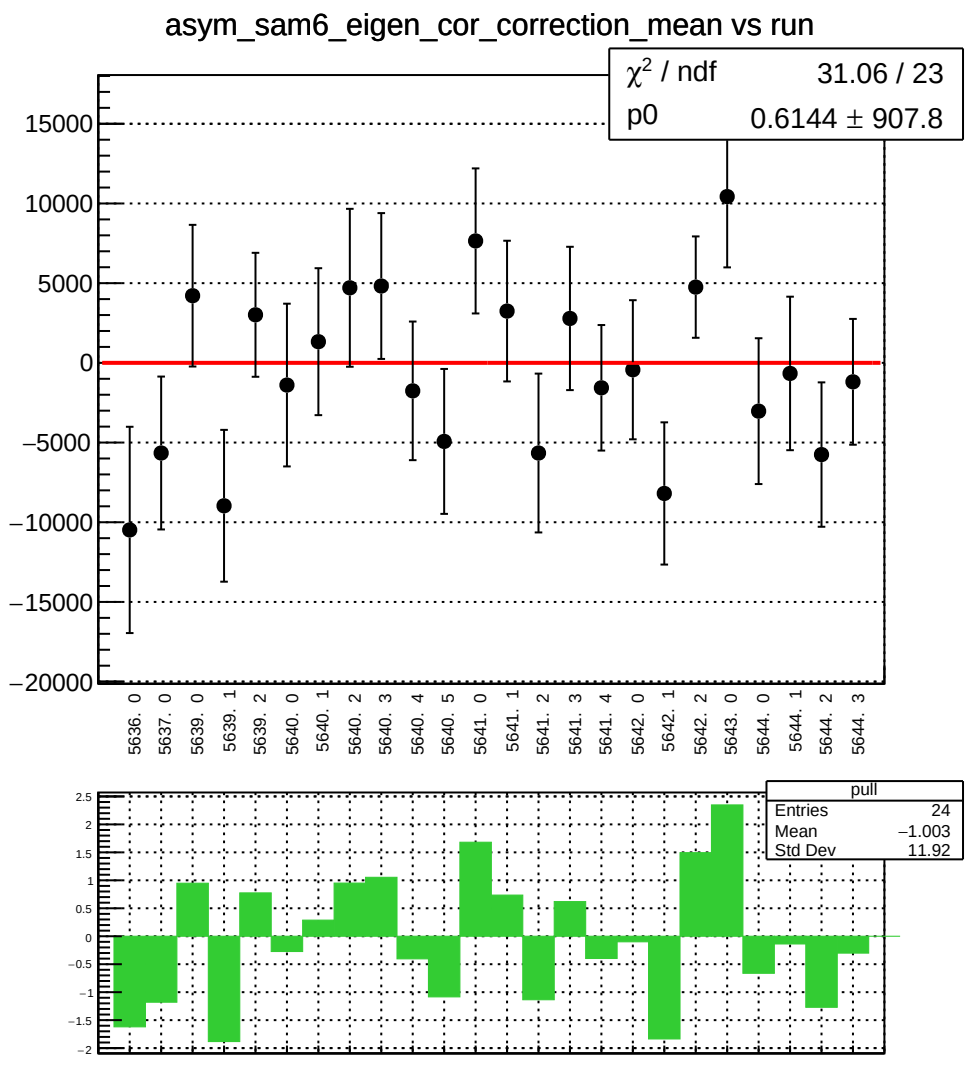
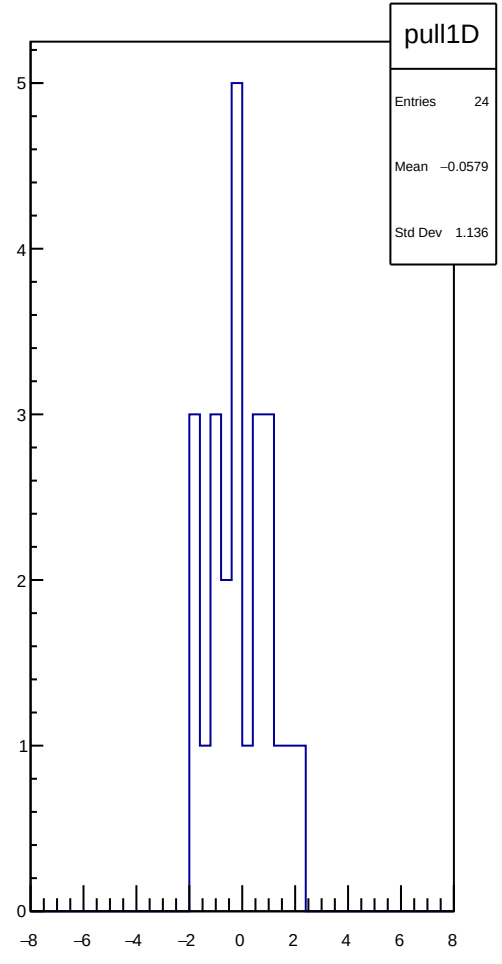
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

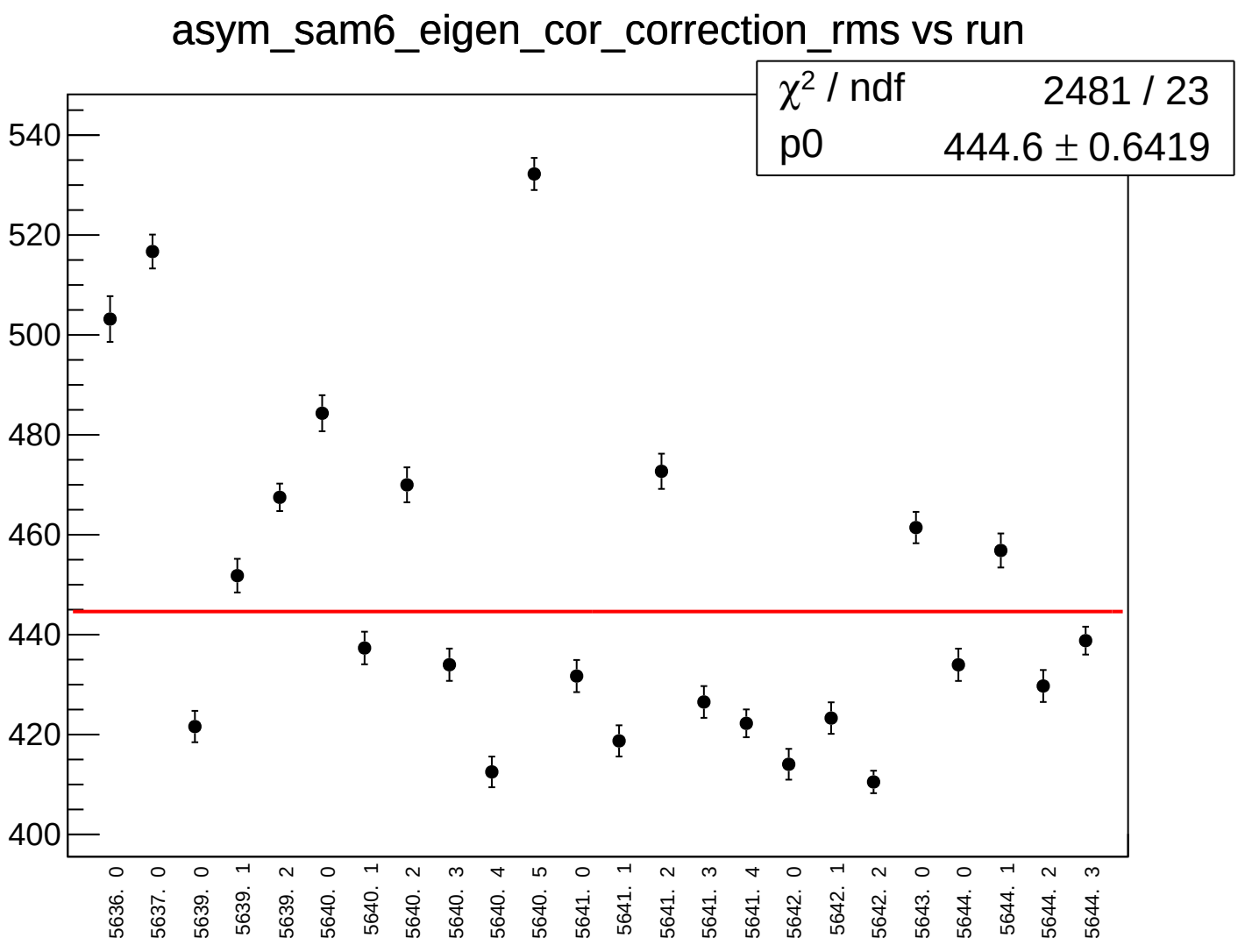

eigen_cor_asym_sam6_mean vs run
χ² / ndf 18.79 / 23
p0 42.43 ± 185.8
2000
1000
0
−1000
−2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 109.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 24
Mean −0.006906
Std Dev 0.8848
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam6_rms vs run
χ² / ndf 6229 / 23
p0 90.66 ± 0.1314
130
120
110
100
90
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 31.06 / 23
p0 0.6144 ± 907.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −1.003
Std Dev 11.92
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.0579
Std Dev 1.136
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 2481 / 23
p0 444.6 ± 0.6419
540
520
500
480
460
440
420
400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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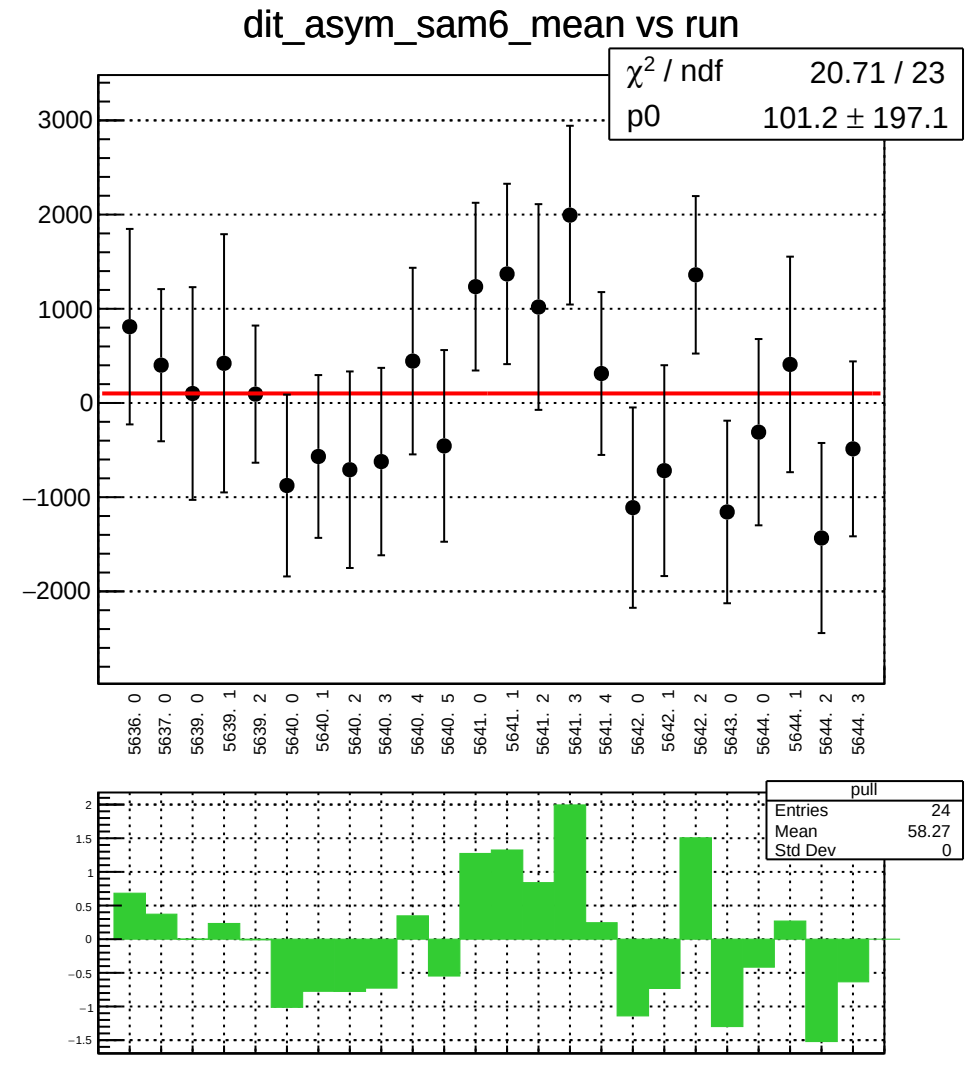
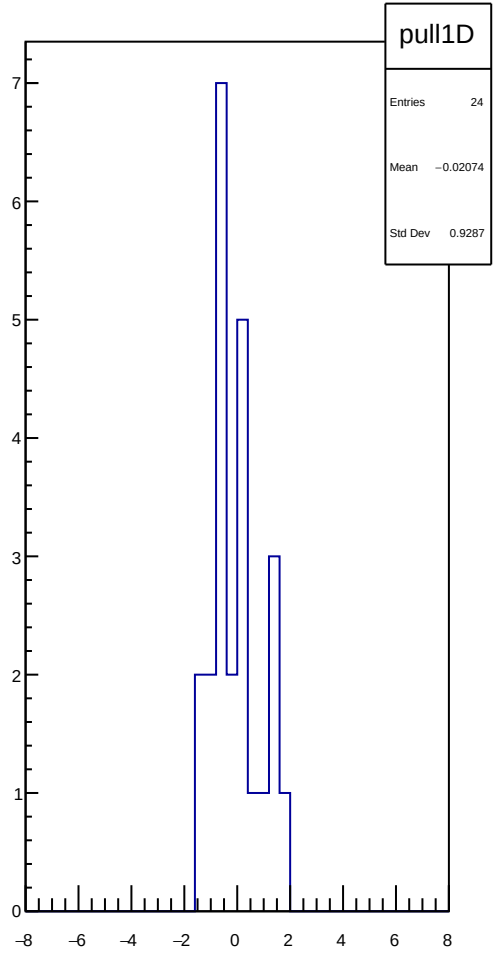
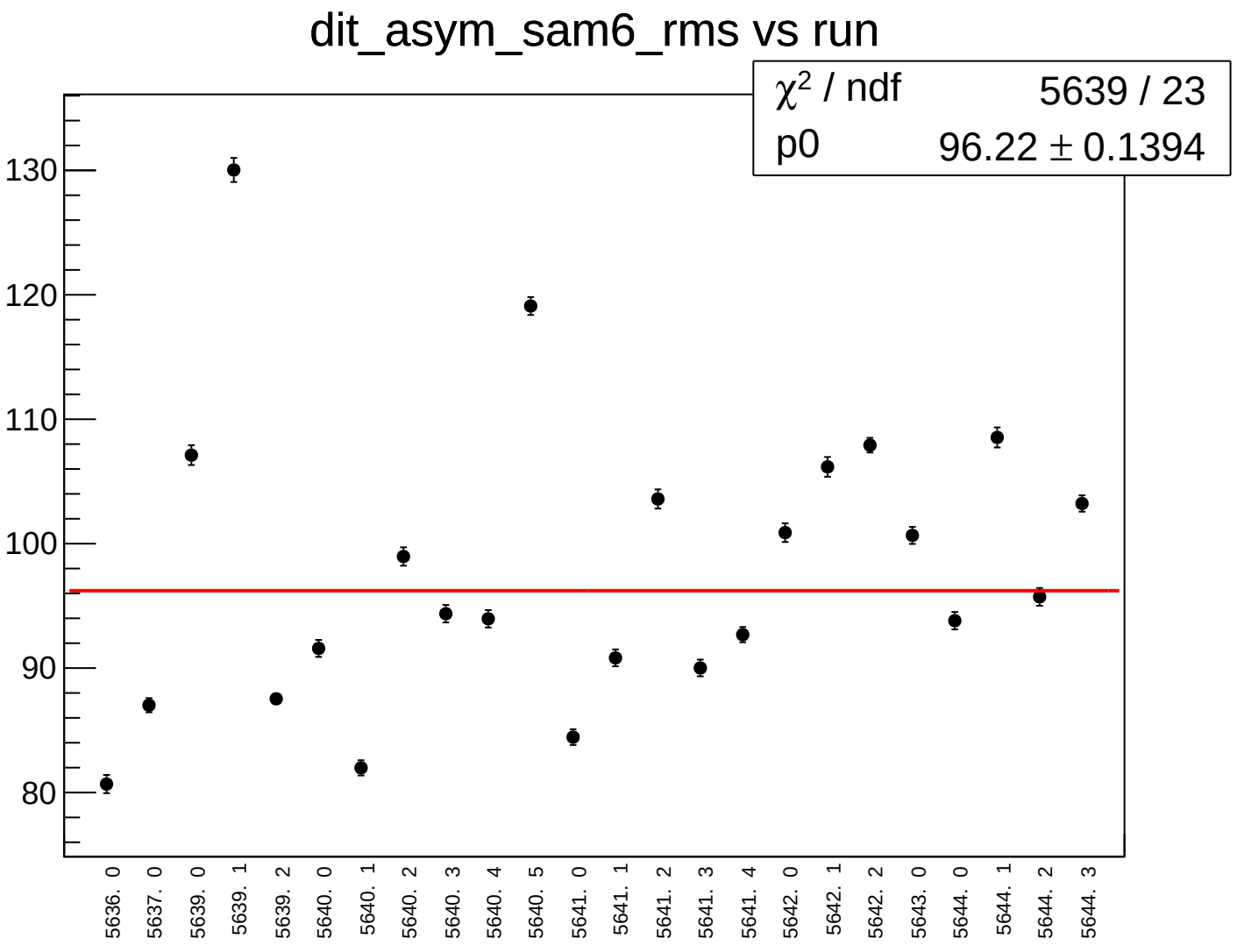
5644. 2
5644. 3


dit_asym_sam6_mean vs run
χ² / ndf 20.71 / 23
p0 101.2 ± 197.1
3000
2000
1000
0
−1000
−2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 58.27
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean −0.02074
Std Dev 0.9287
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam6_rms vs run
χ² / ndf 5639 / 23
p0 96.22 ± 0.1394
130
120
110
100
90
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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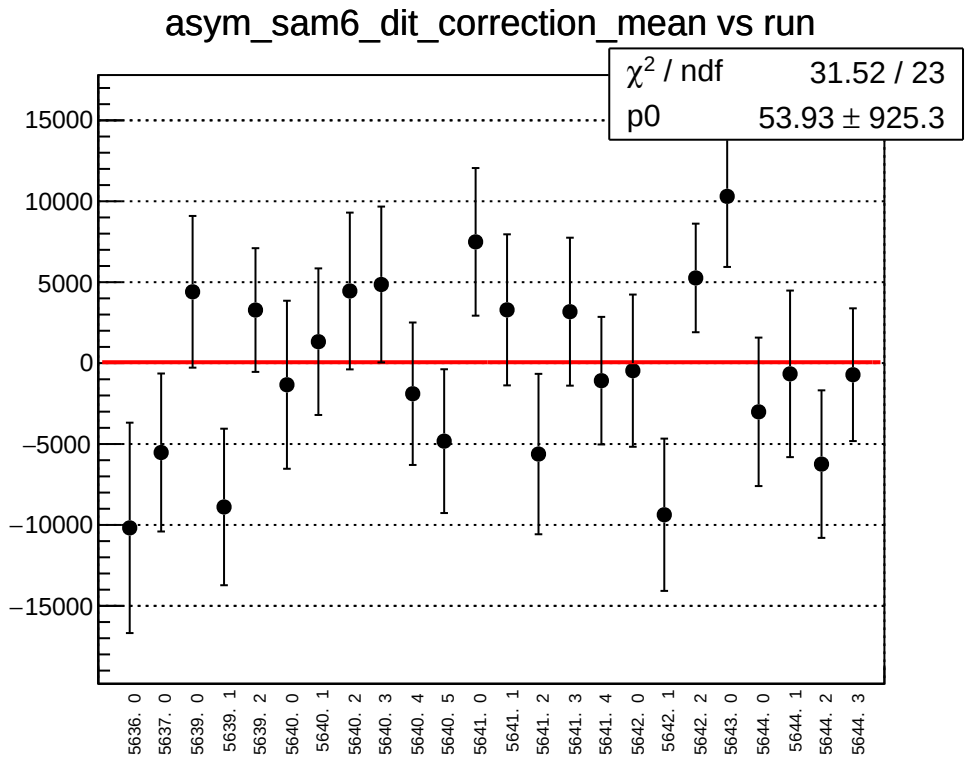
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam6_dit_correction_mean vs run
χ² / ndf 31.52 / 23
p0 53.93 ± 925.3
15000
10000
5000
0
−5000
−10000
−15000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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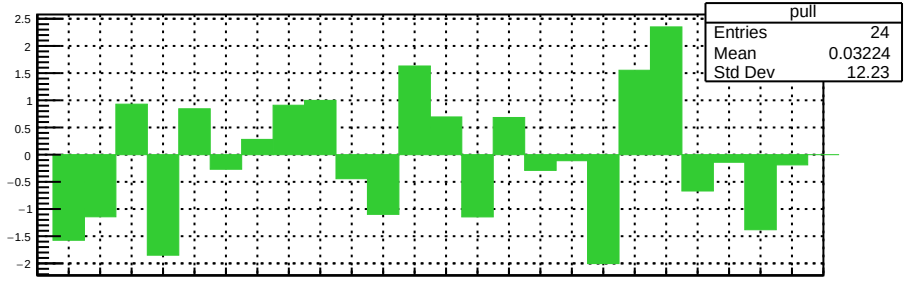
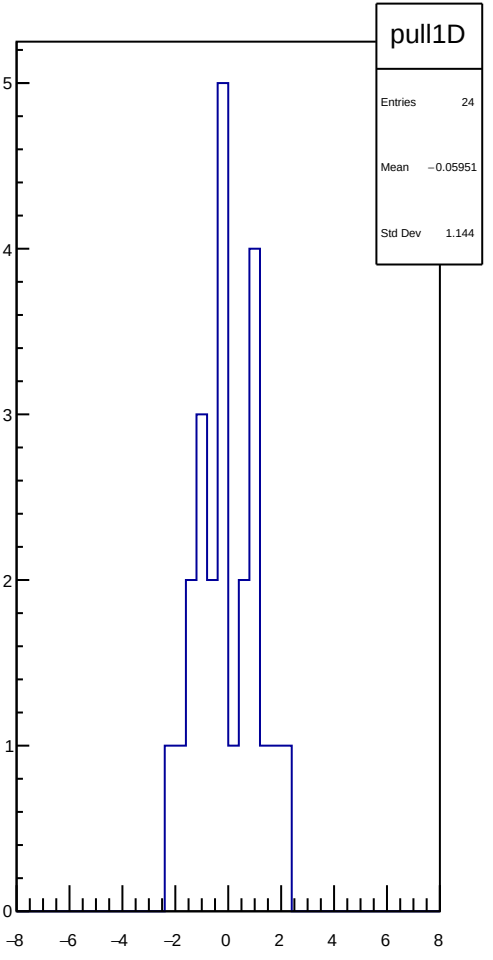
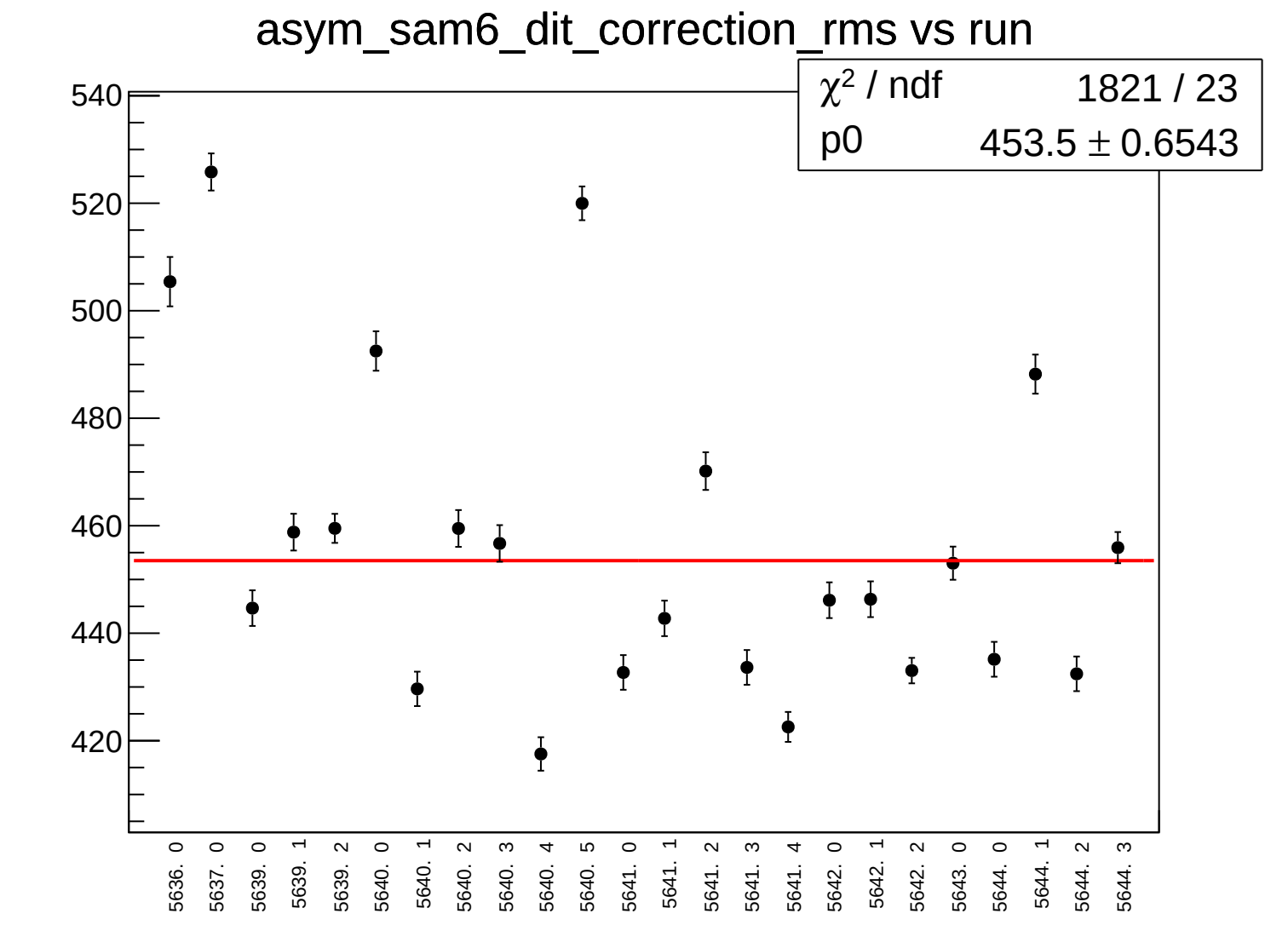
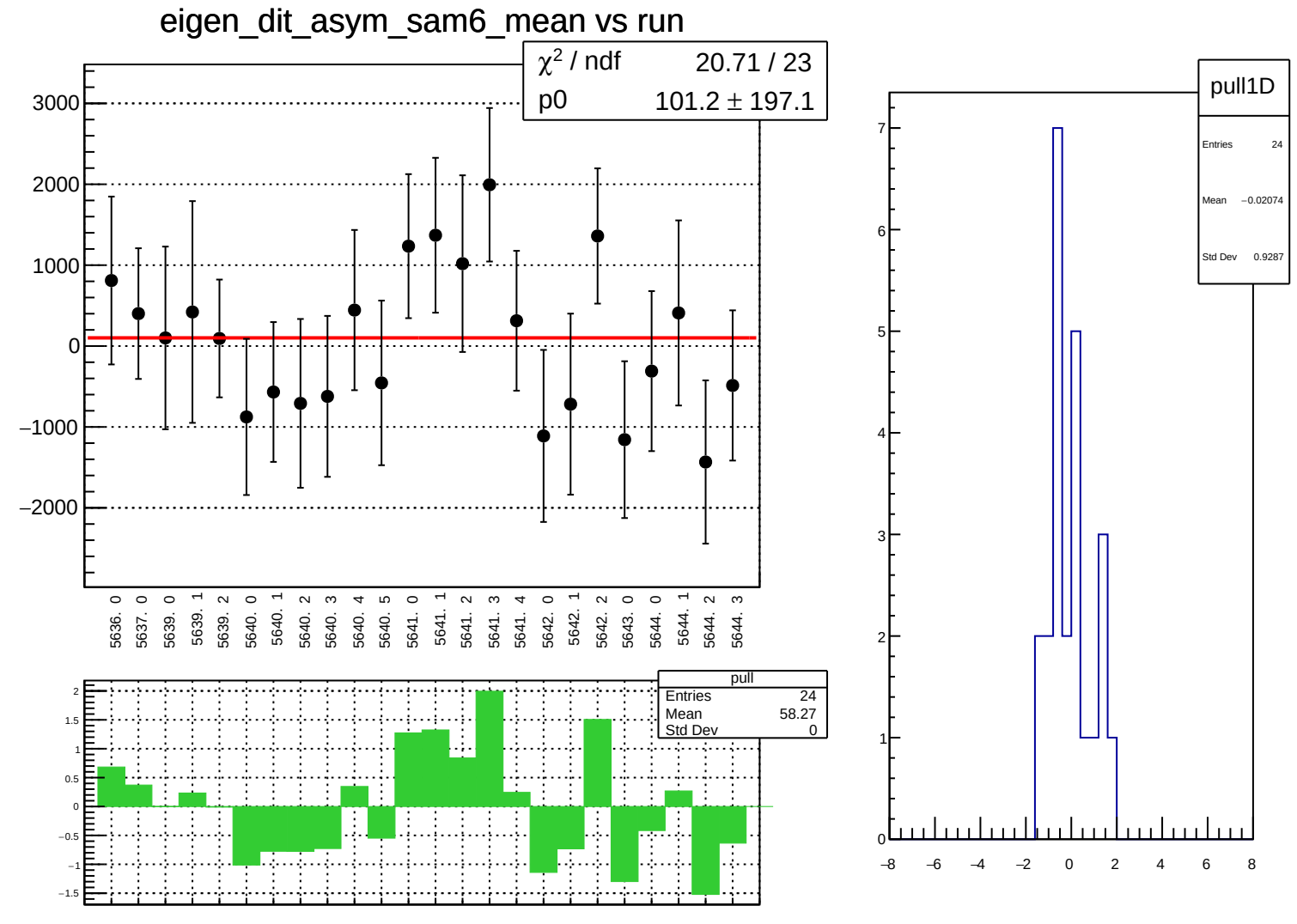
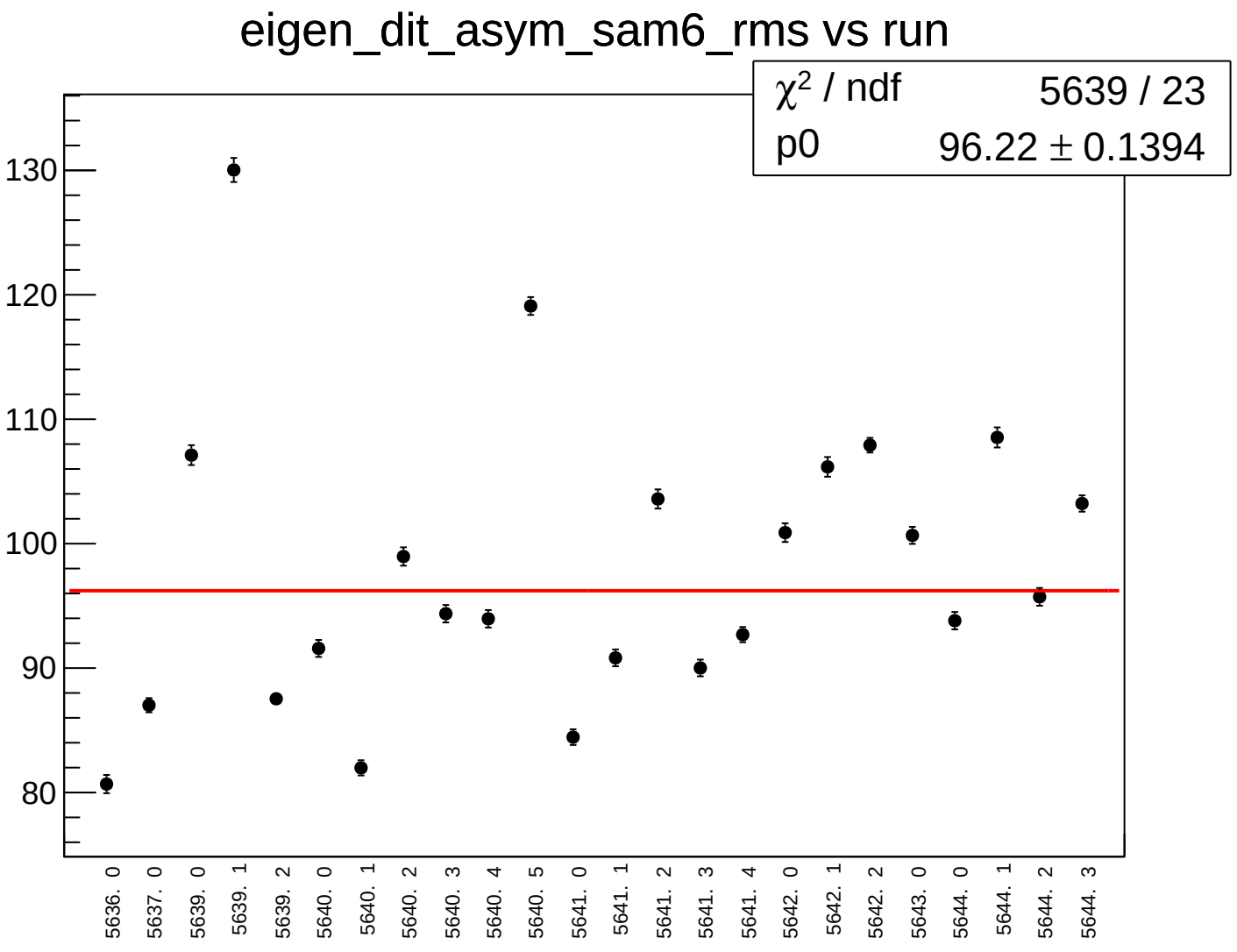
5644. 2
5644. 3

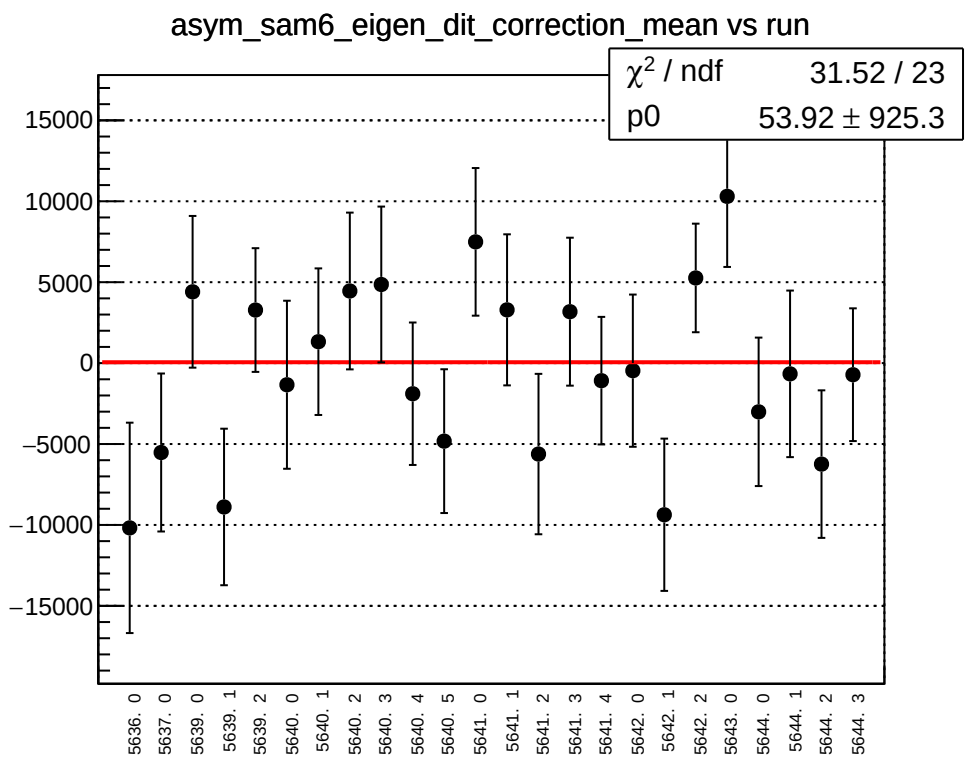

pull
Entries 24
Mean 0.03224
Std Dev 12.23
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

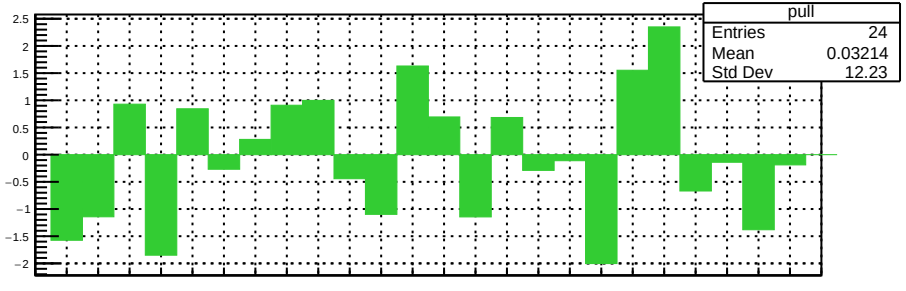

pull1D
Entries 24
Mean −0.05951
Std Dev 1.144
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

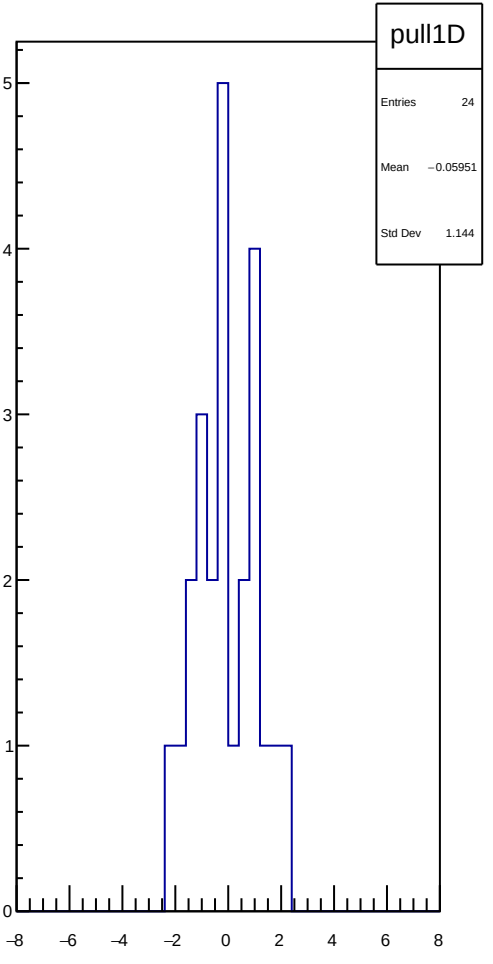

asym_sam6_dit_correction_rms vs run
χ² / ndf 1821 / 23
p0 453.5 ± 0.6543
540
520
500
480
460
440
420
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

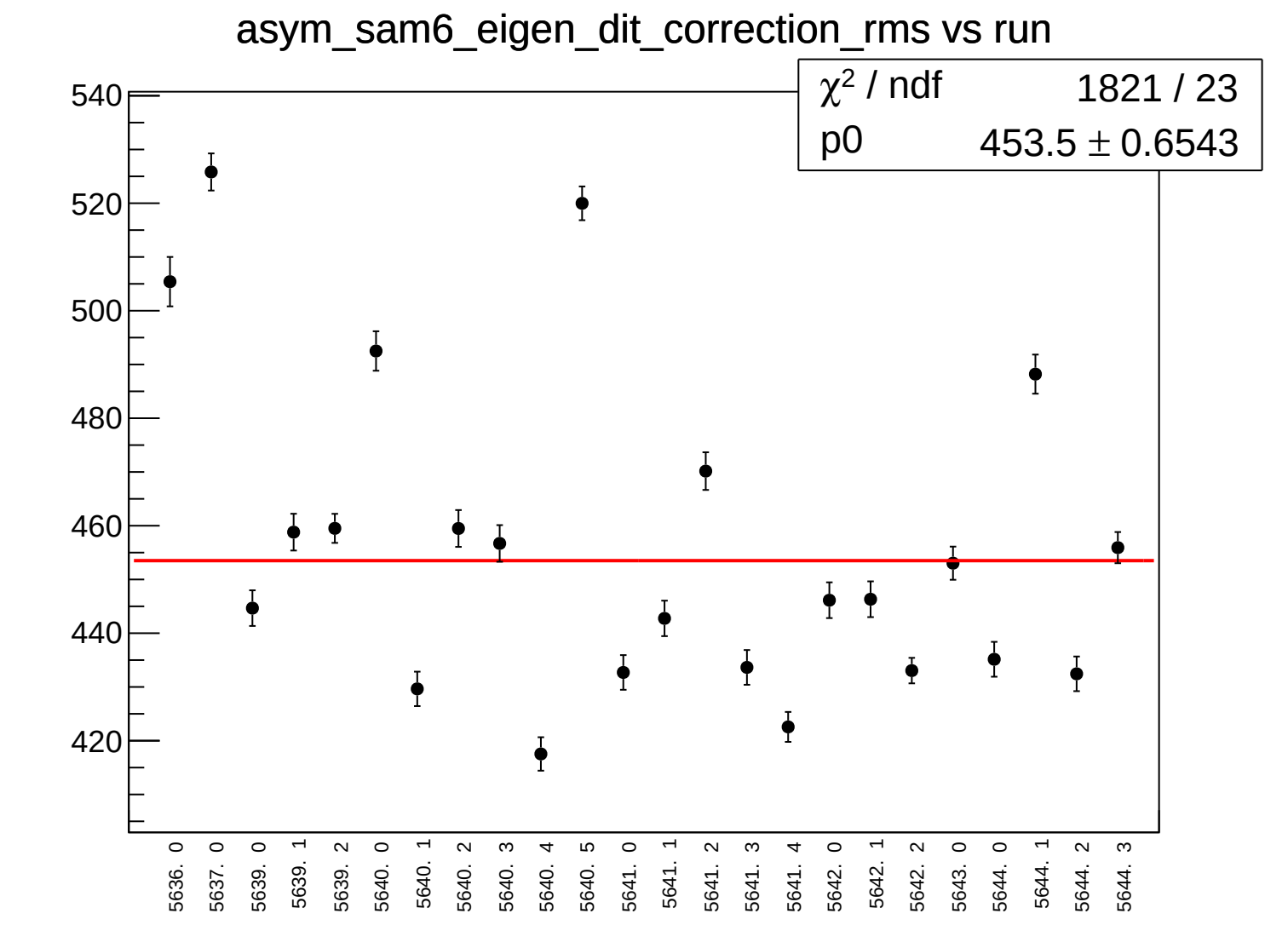

eigen_dit_asym_sam6_mean vs run
χ² / ndf 20.71 / 23
p0 101.2 ± 197.1
3000
2000
1000
0
−1000
−2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 58.27
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.02074
Std Dev 0.9287
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

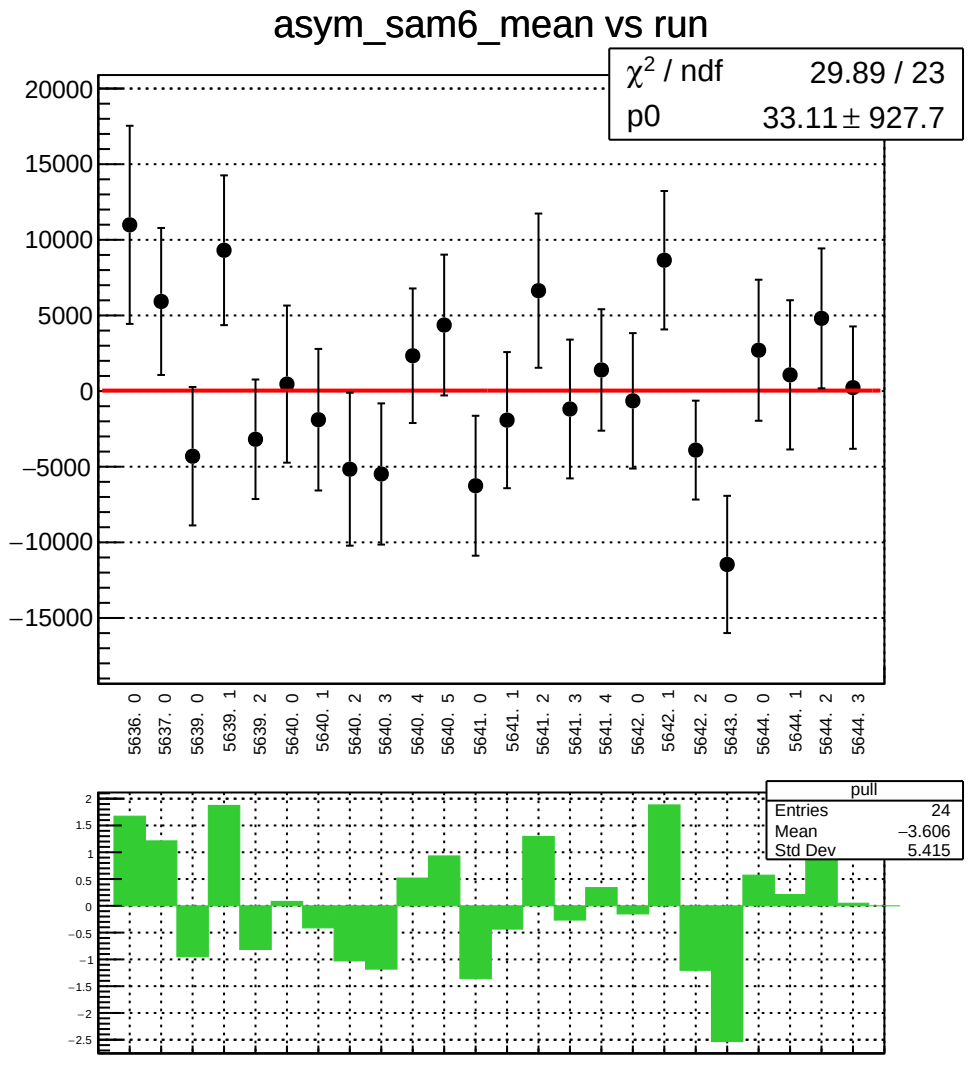

eigen_dit_asym_sam6_rms vs run
χ² / ndf 5639 / 23
p0 96.22 ± 0.1394
130
120
110
100
90
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

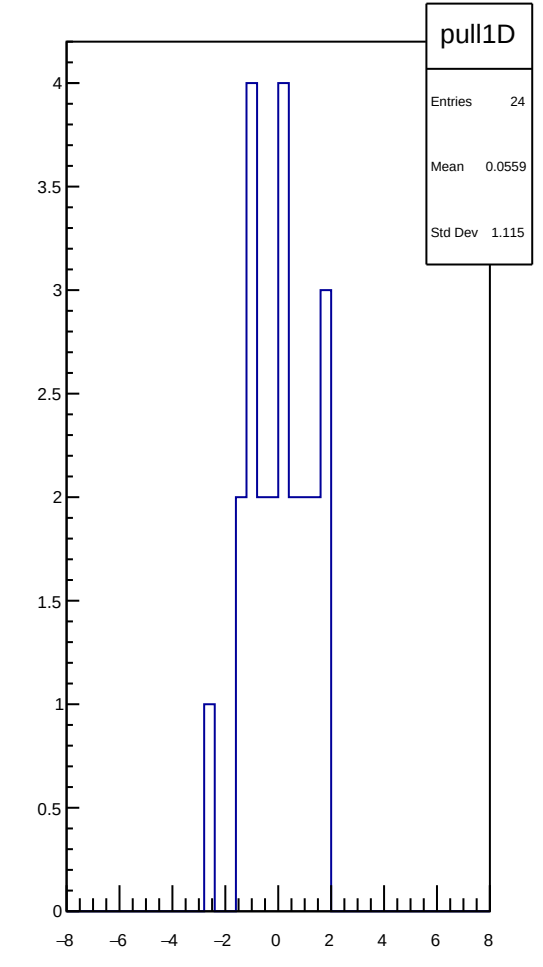

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 31.52 / 23
p0 53.92 ± 925.3
15000
10000
5000
0
−5000
−10000
−15000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

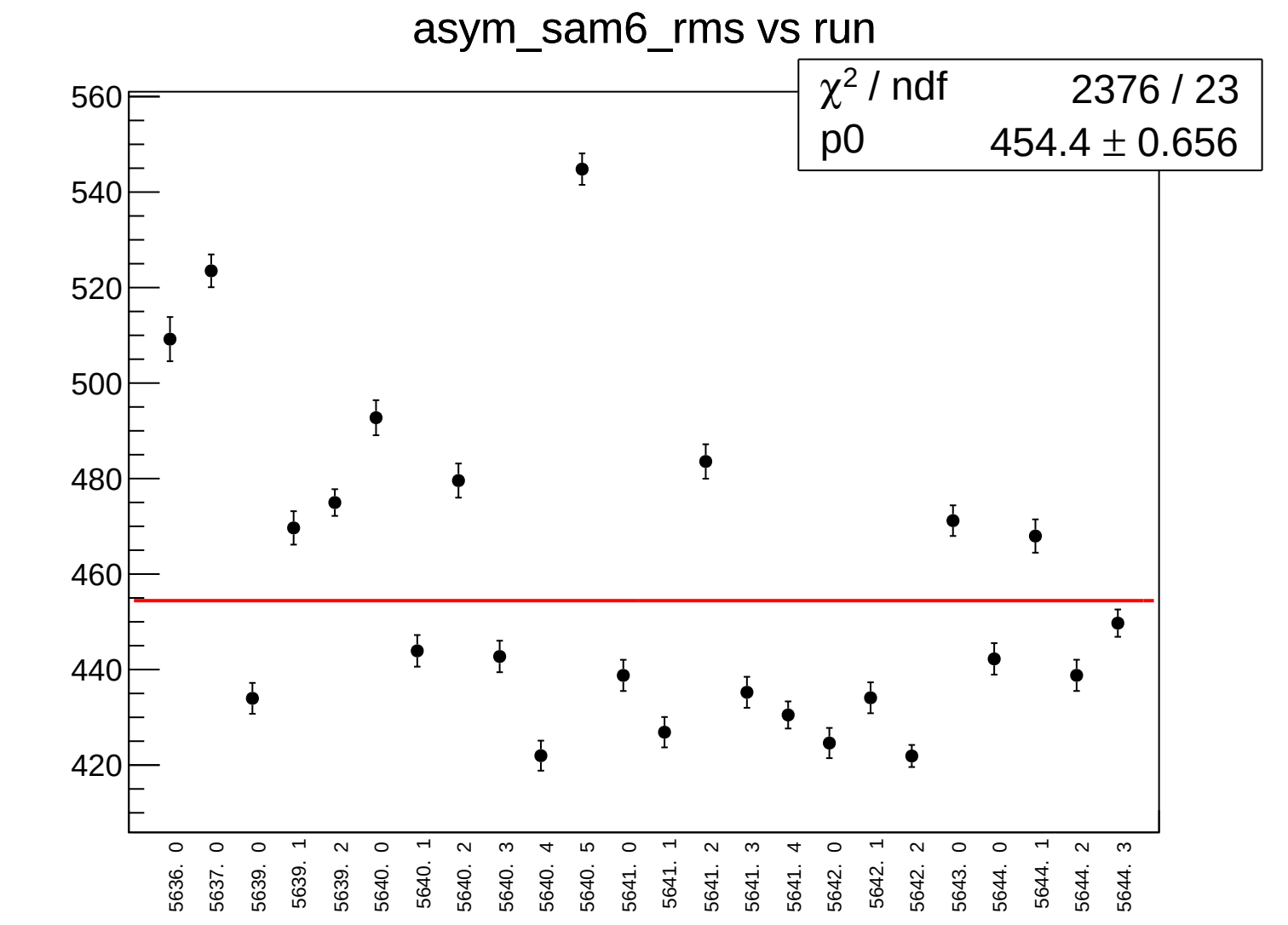

pull
Entries 24
Mean 0.03214
Std Dev 12.23
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

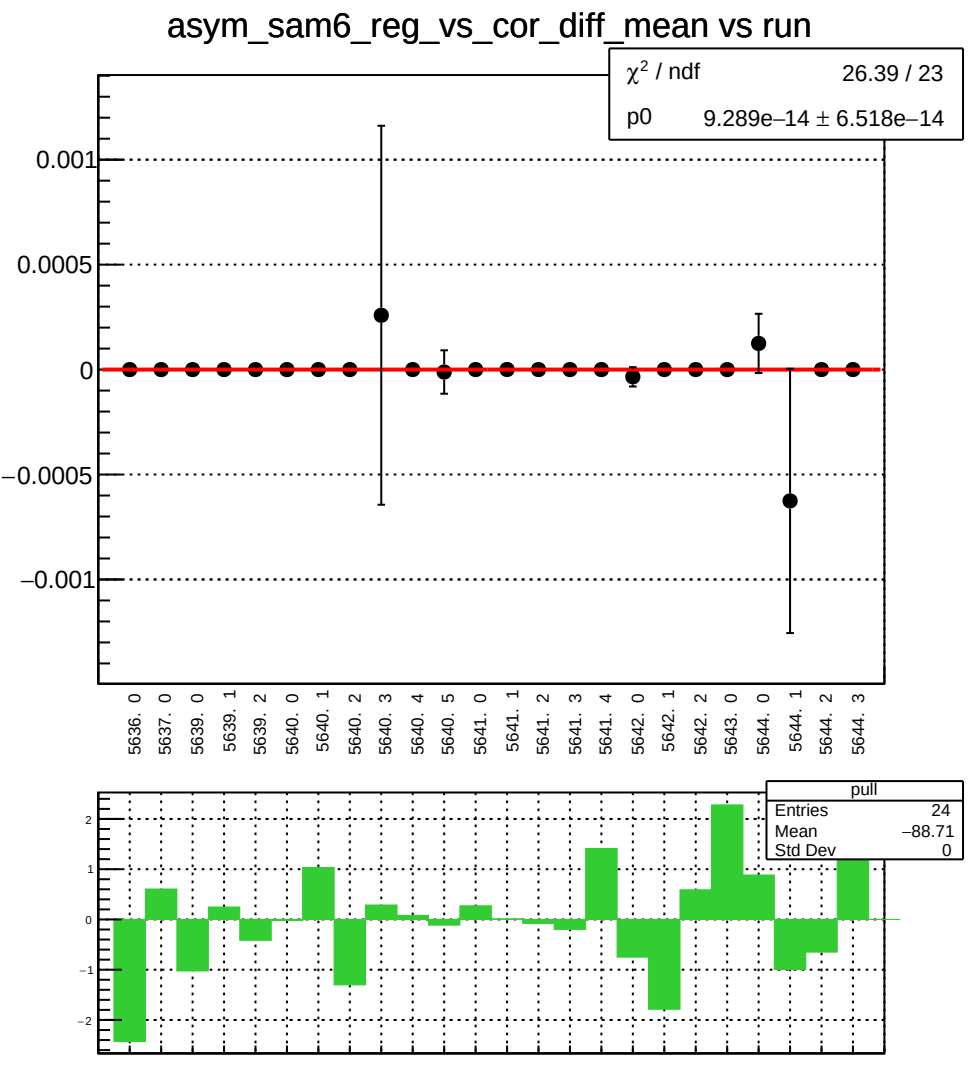

pull1D
Entries 24
Mean −0.05951
Std Dev 1.144
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

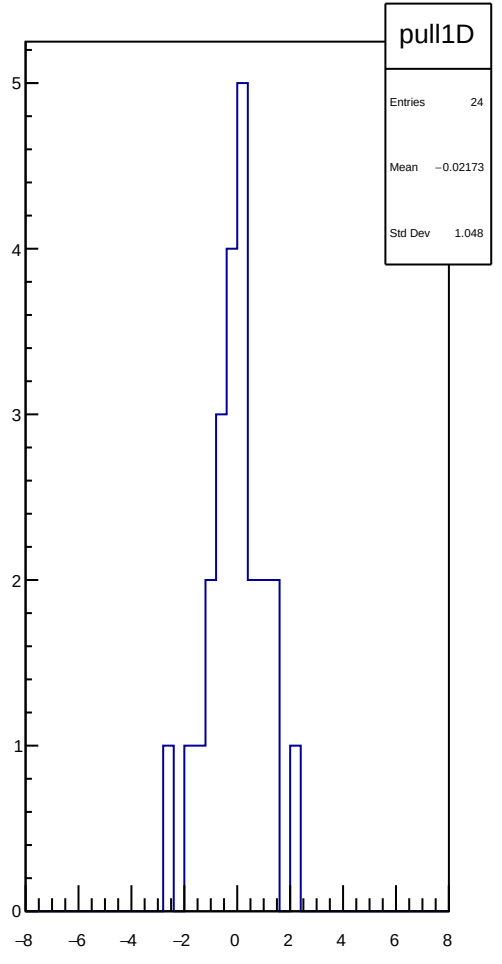

asym_sam6_eigen_dit_correction_rms vs run
χ^2 / ndf 1821 / 23
p0 453.5 ± 0.6543
540
520
500
480
460
440
420
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

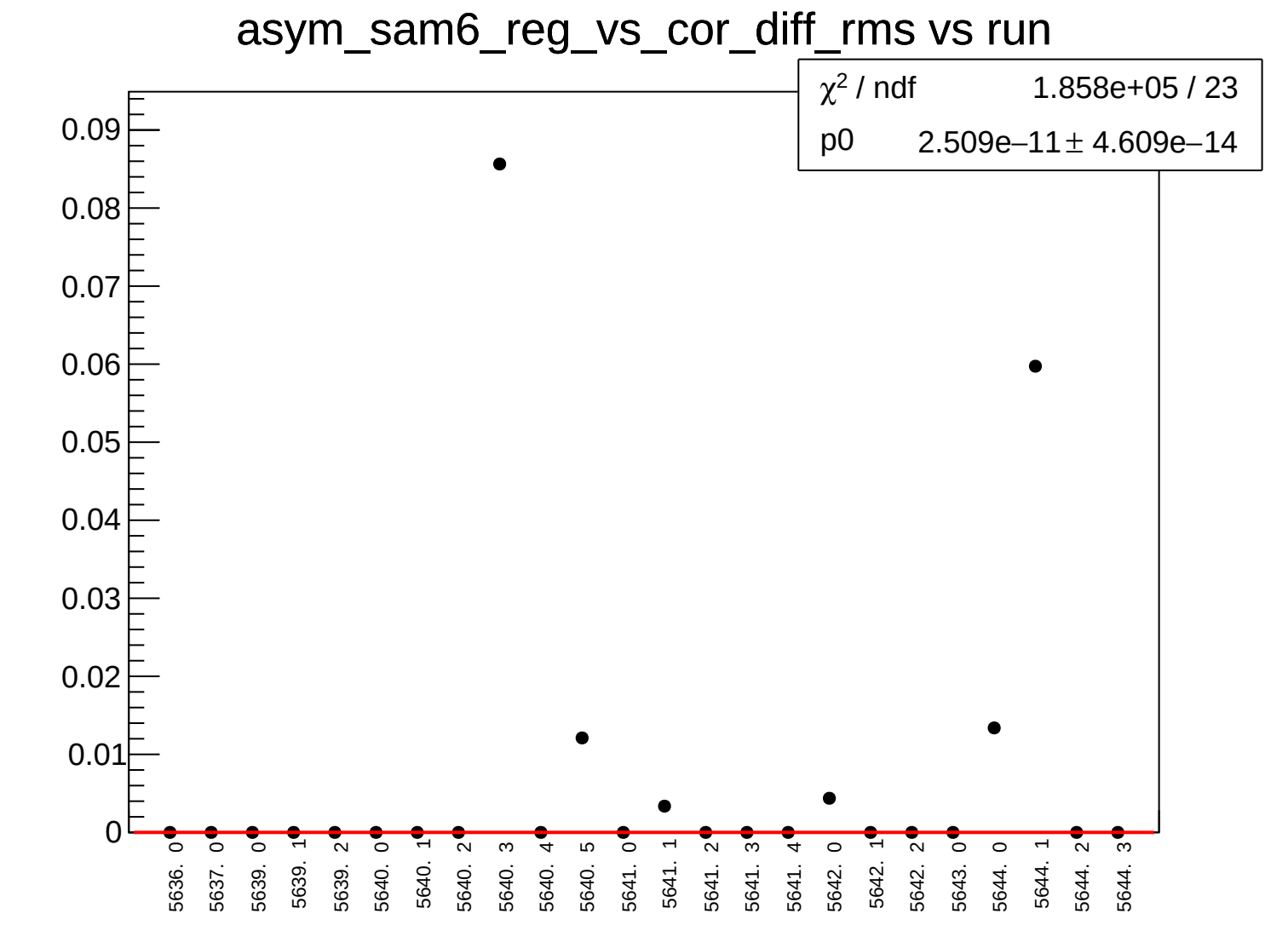

asym_sam6_mean vs run
χ² / ndf 29.89 / 23
p0 33.11 ± 927.7
20000
15000
10000
5000
0
−5000
−10000
−15000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −3.606
Std Dev 5.415
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

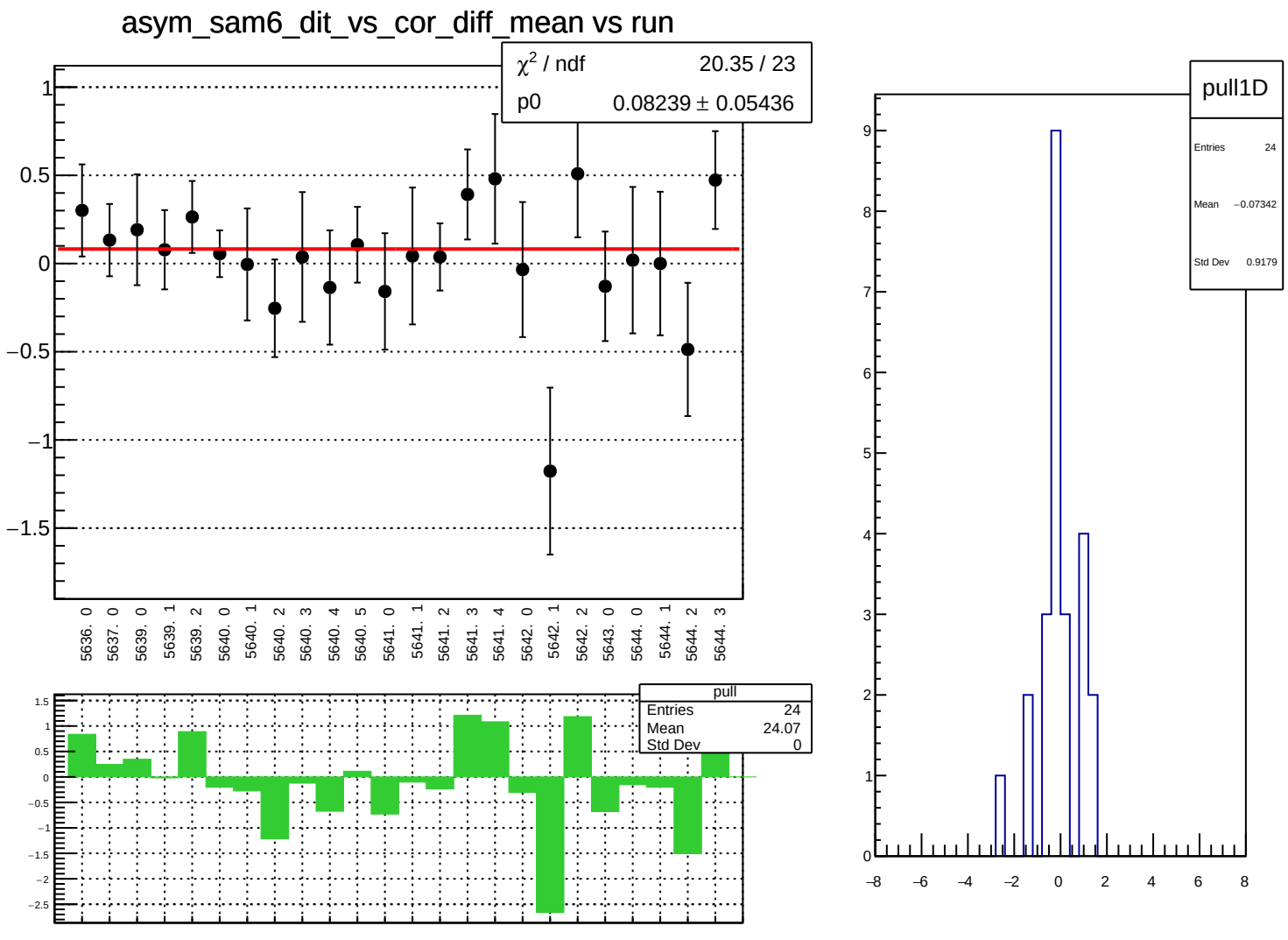

pull1D
Entries 24
Mean 0.0559
Std Dev 1.115
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

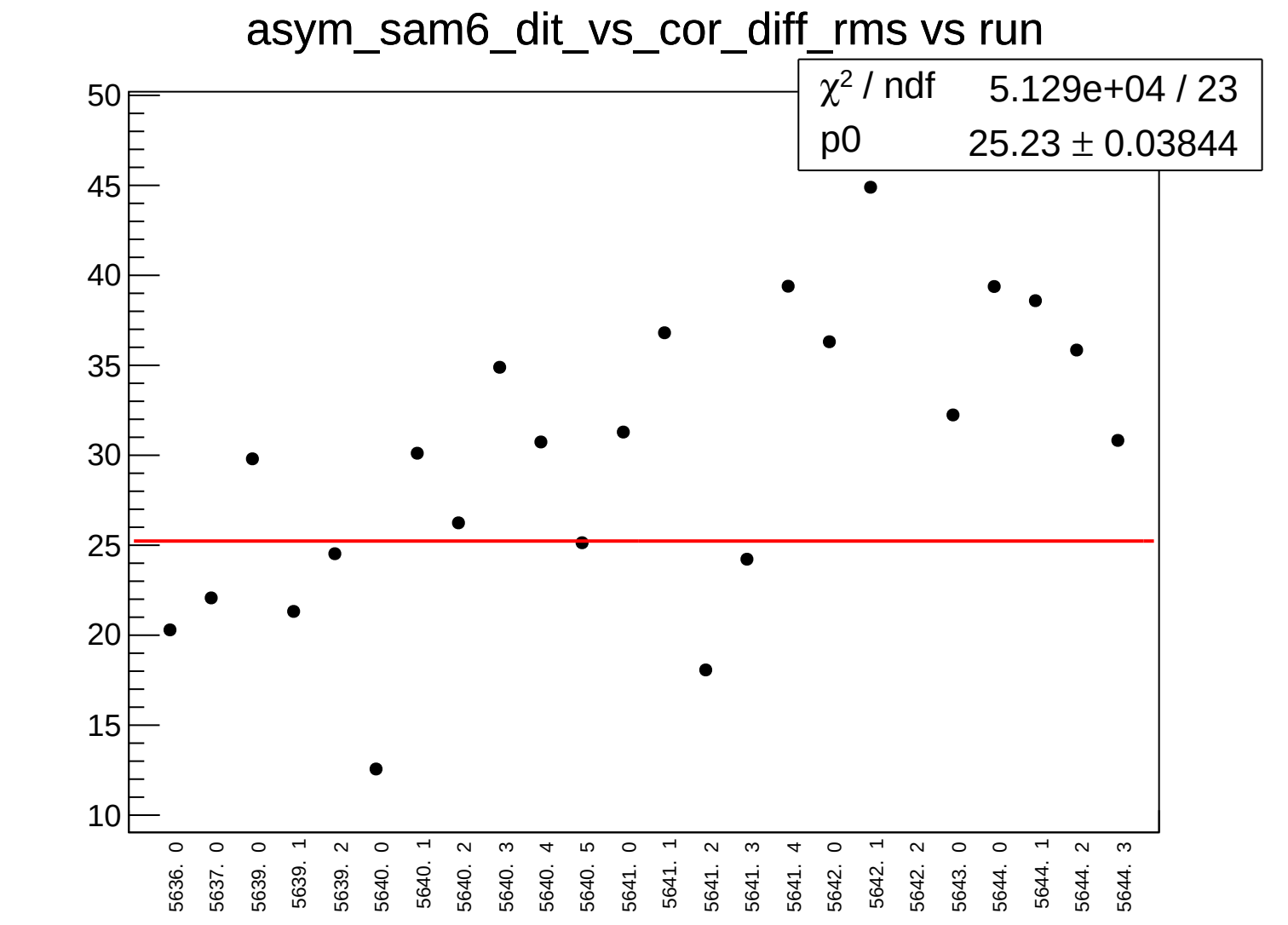

asym_sam6_rms vs run
χ² / ndf 2376 / 23
p0 454.4 ± 0.656
560
540
520
500
480
460
440
420
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

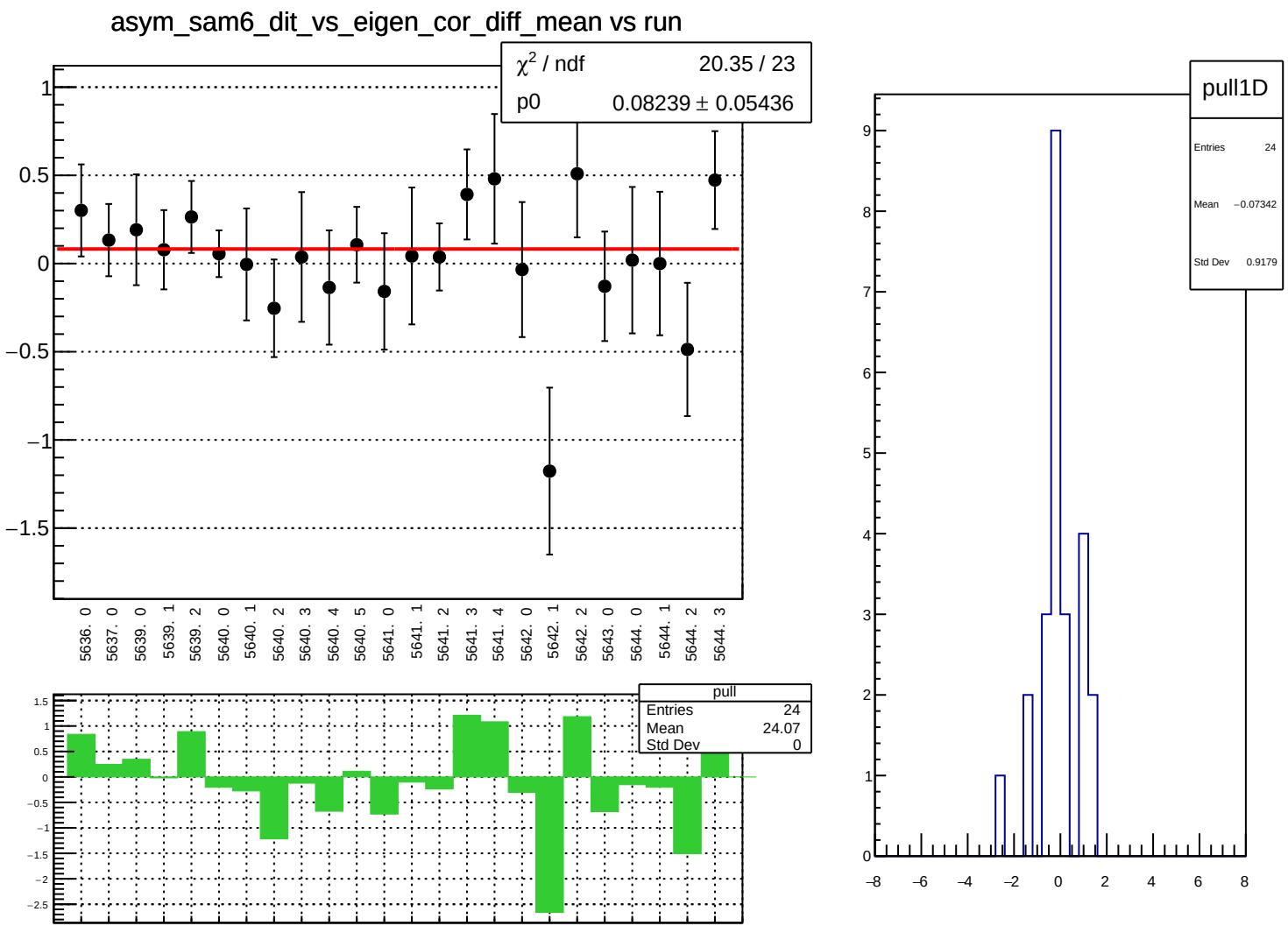

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 26.39 / 23
p0 9.289e−14 ± 6.518e−14
0.001
0.0005
0
−0.0005
−0.001
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −88.71
Std Dev 0
2
1
0
−1
−2

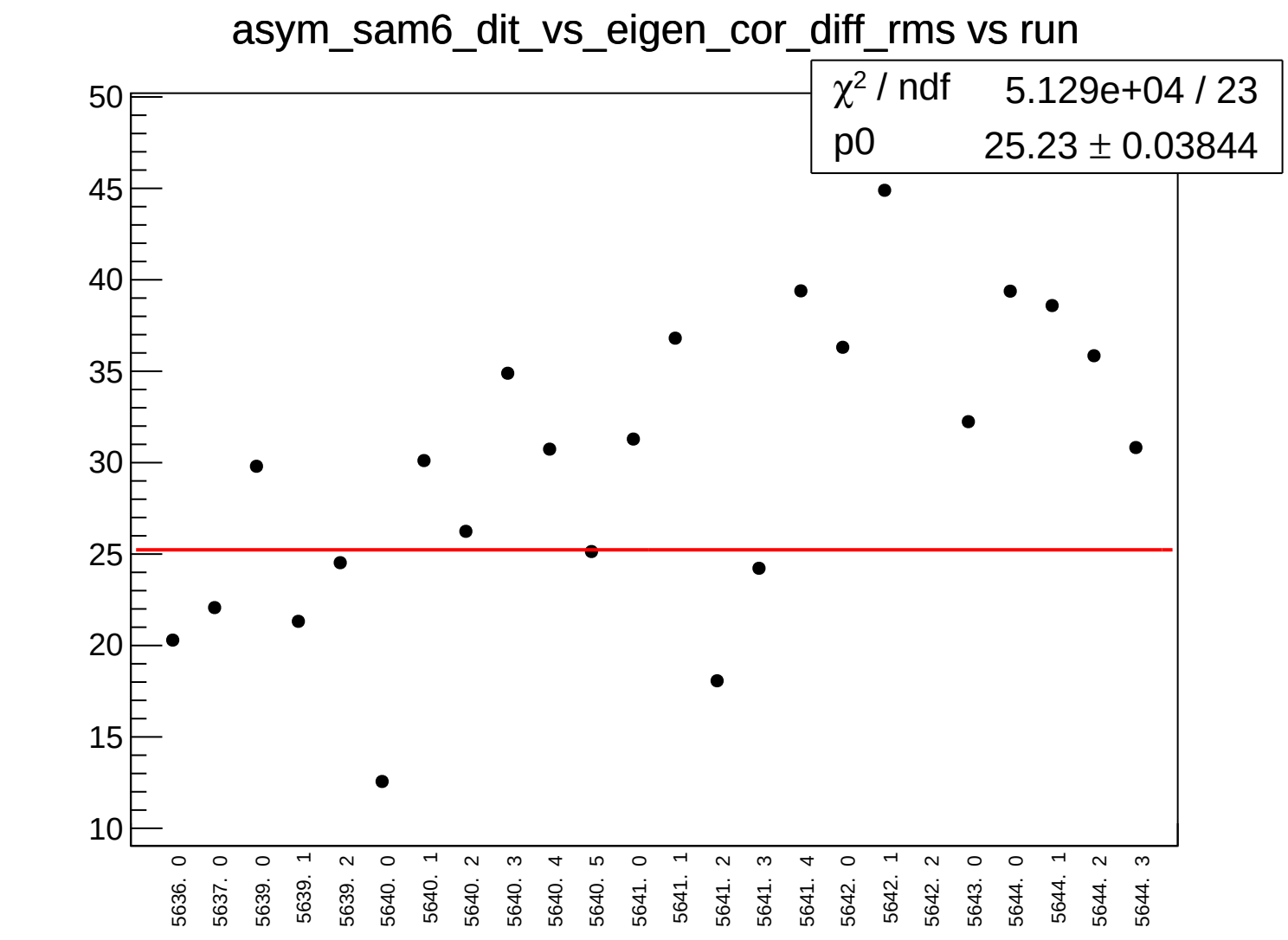

pull1D
Entries 24
Mean −0.02173
Std Dev 1.048
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

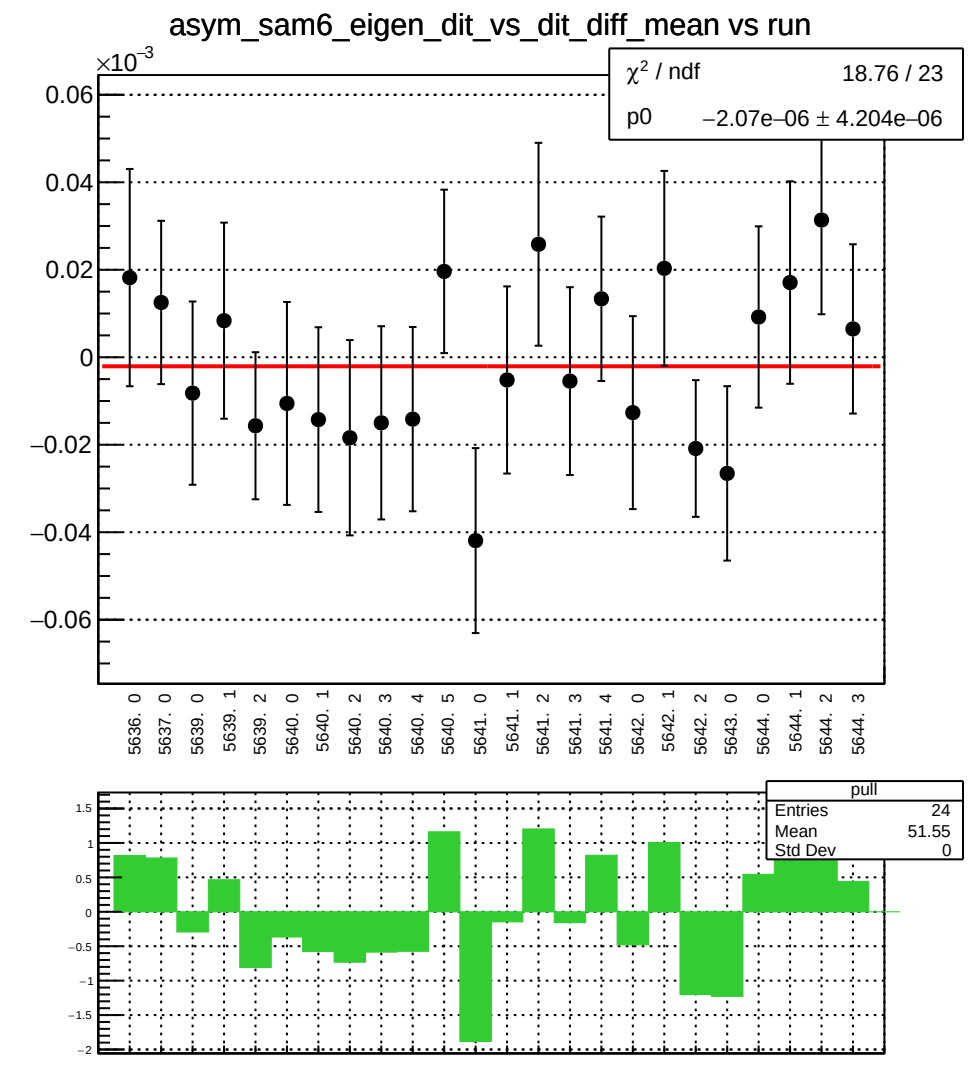

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 1.858e+05 / 23
p0 2.509e−11 ± 4.609e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

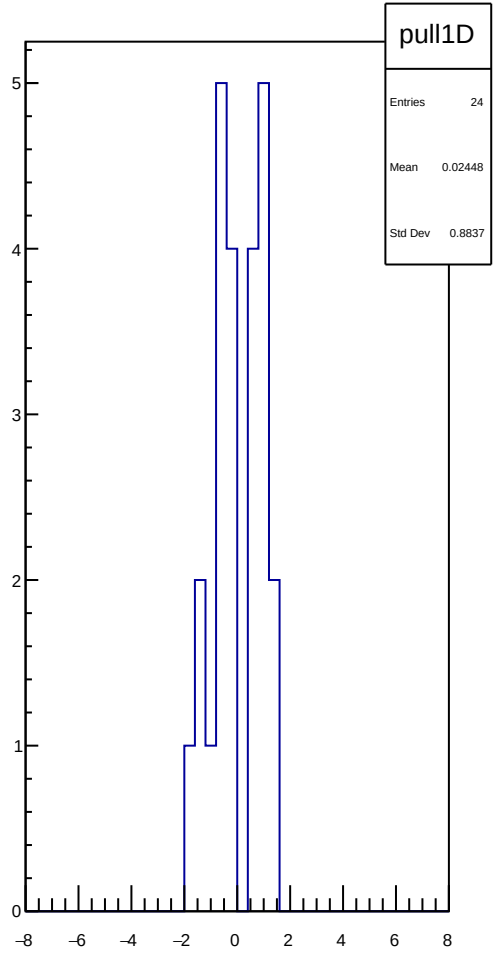

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 20.35 / 23
p0 0.08239 ± 0.05436
1
0.5
0
−0.5
−1
−1.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 24.07
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean −0.07342
Std Dev 0.9179
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

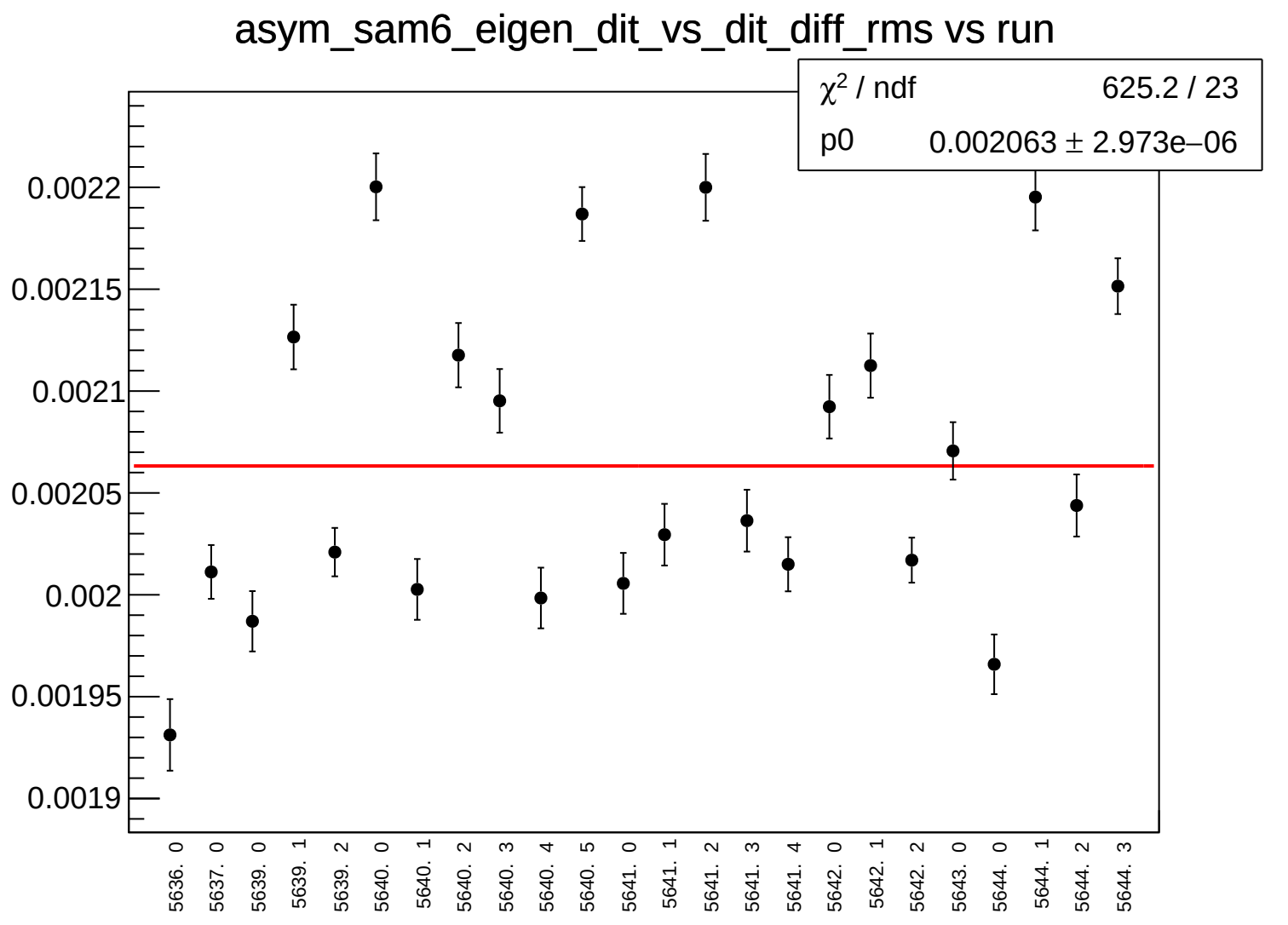

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 5.129e+04 / 23
p0 25.23 ± 0.03844
50
45
40
35
30
25
20
15
10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

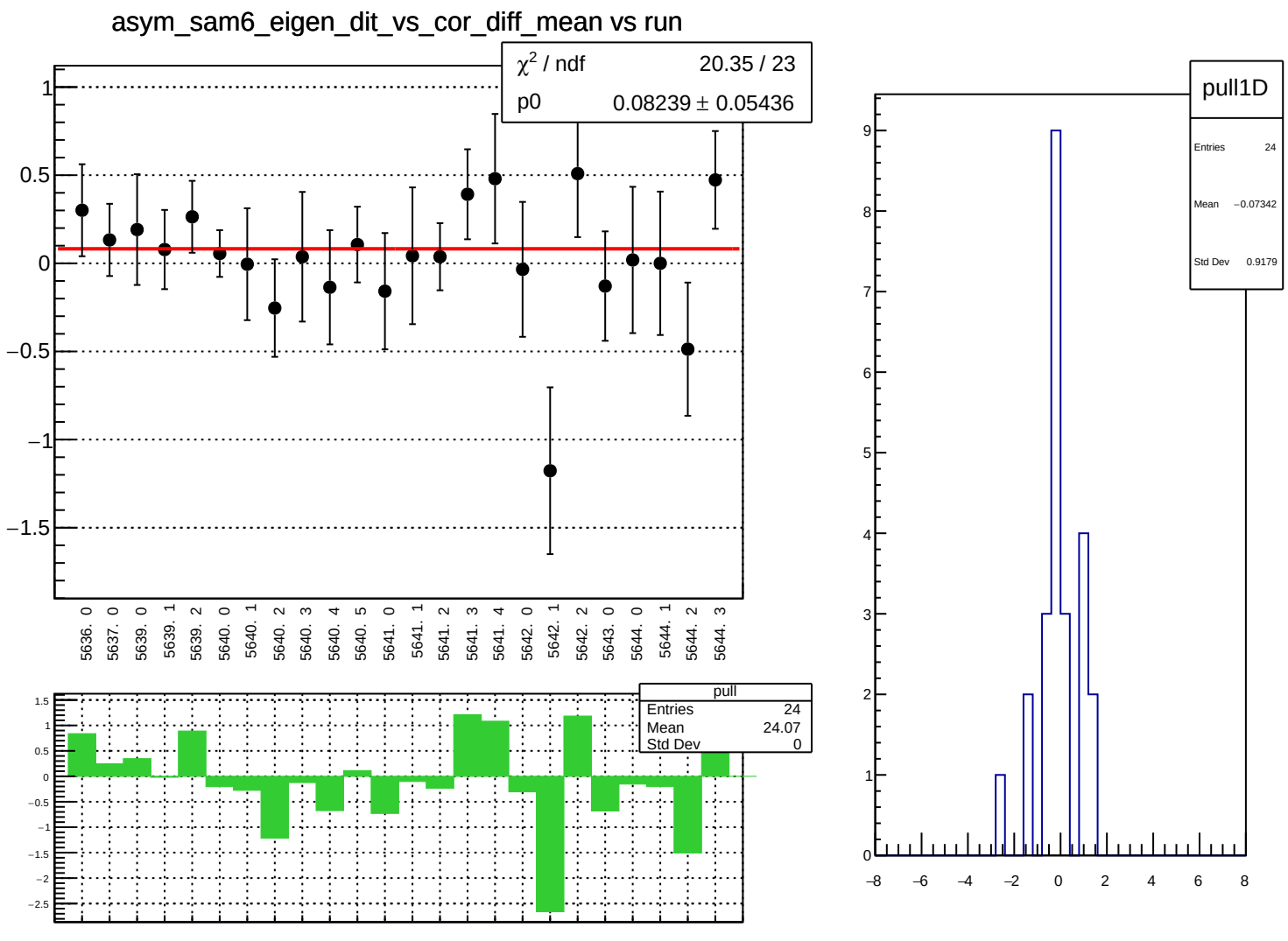

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 20.35 / 23
p0 0.08239 ± 0.05436
1
0.5
0
−0.5
−1
−1.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 24.07
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean −0.07342
Std Dev 0.9179
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

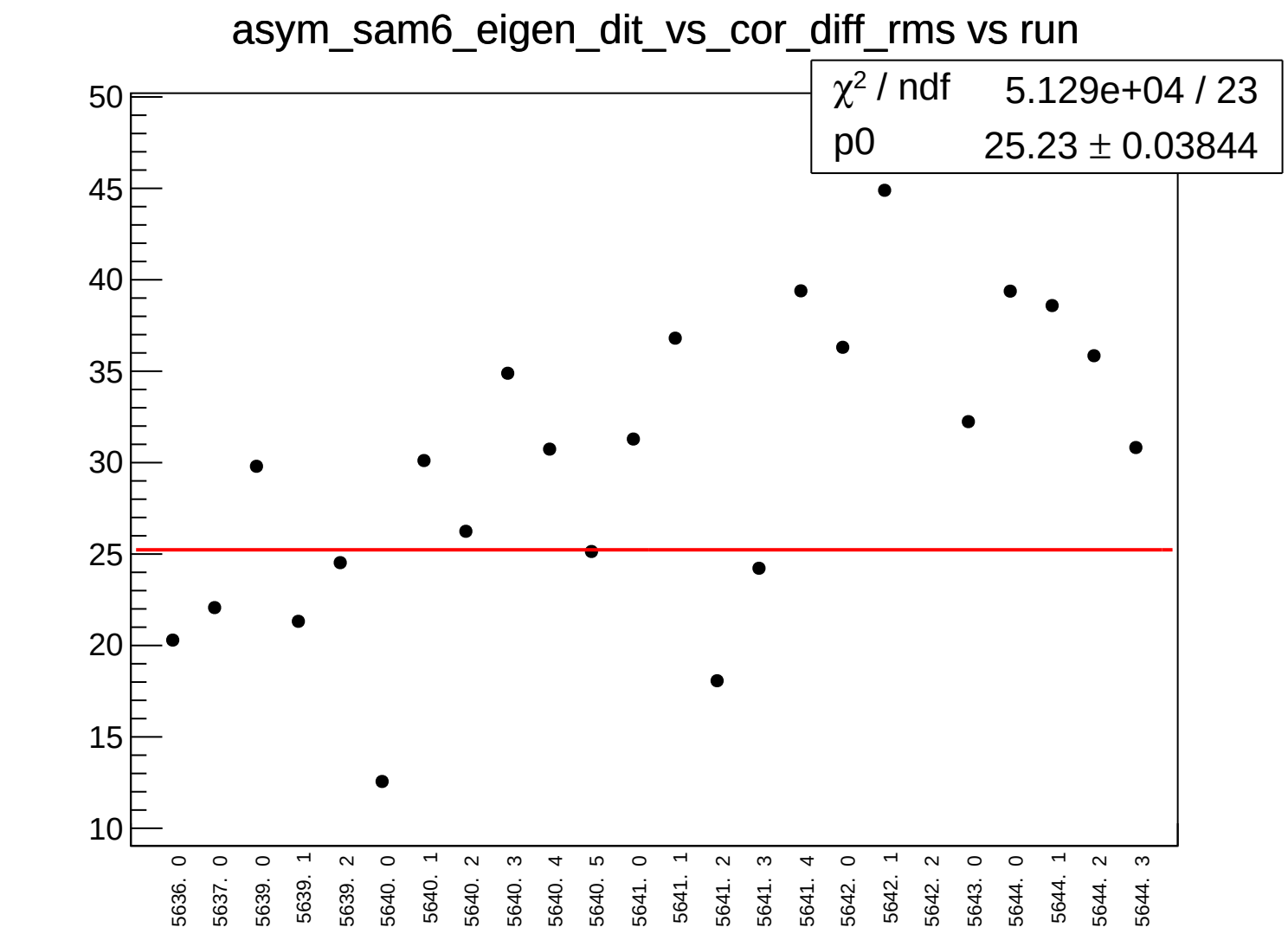

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.129e+04 / 23
p0 25.23 ± 0.03844
50
45
40
35
30
25
20
15
10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

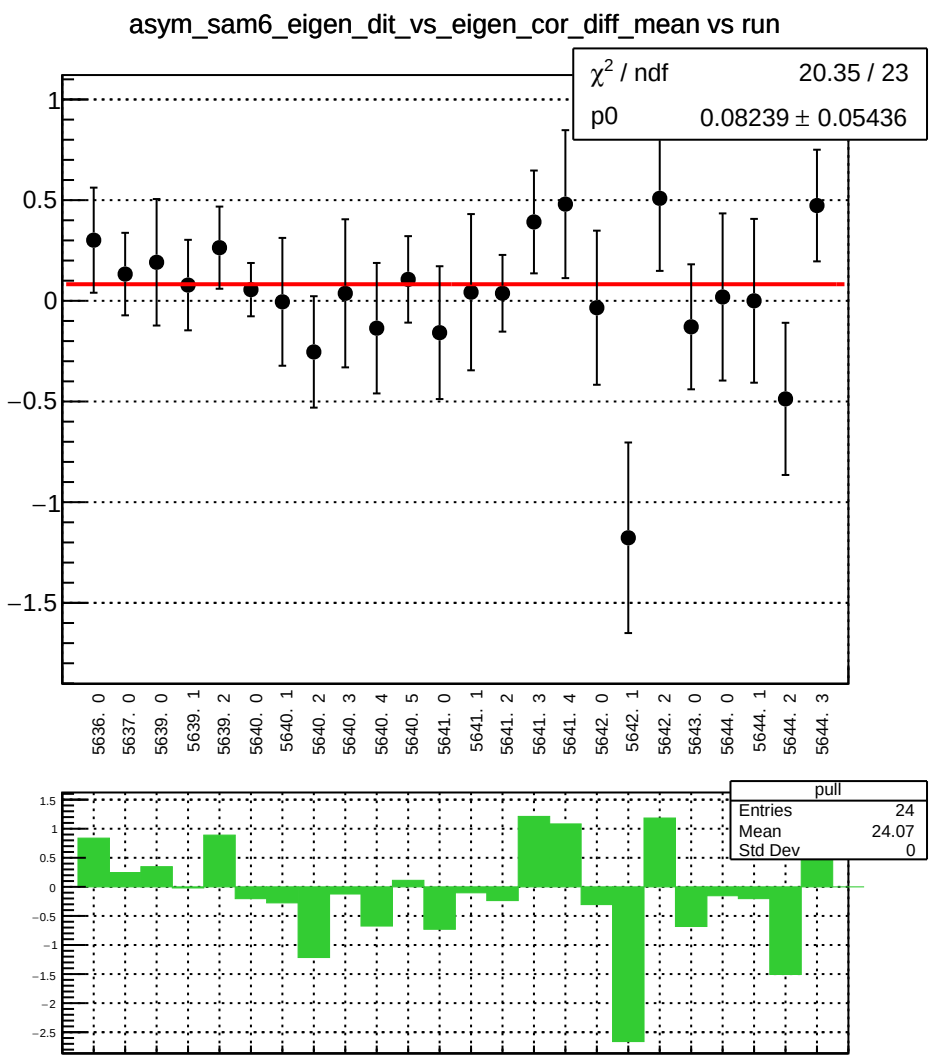

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 18.76 / 23
p0 −2.07e−06 ± 4.204e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 51.55
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

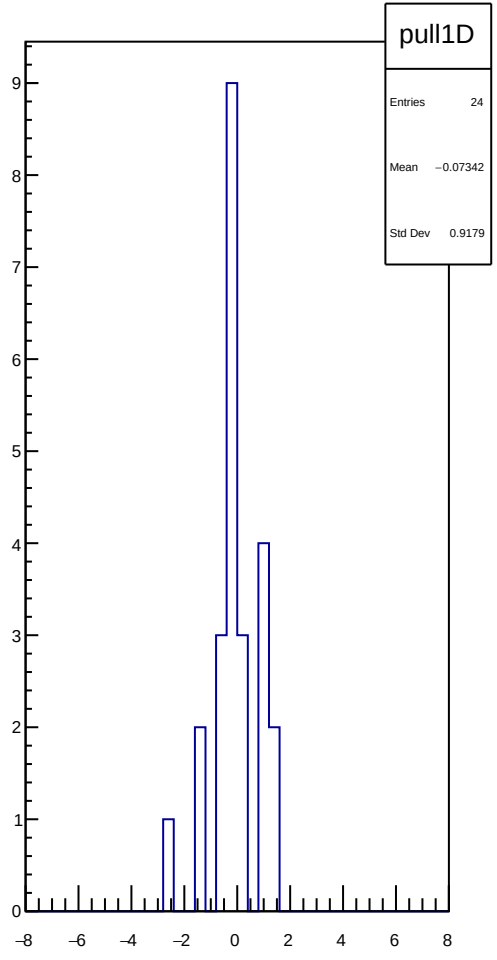

pull1D
Entries 24
Mean 0.02448
Std Dev 0.8837
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

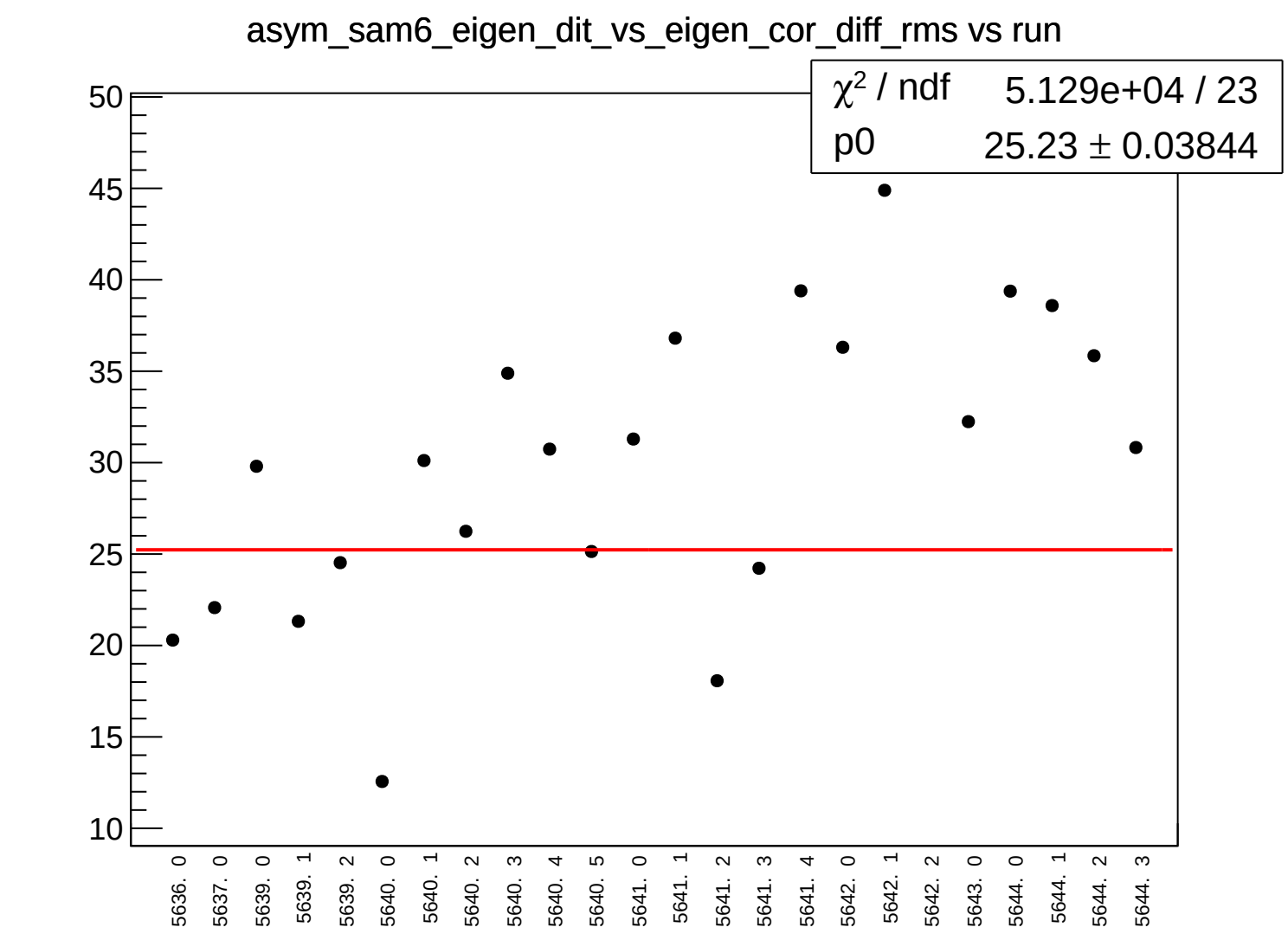

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 625.2 / 23
p0 0.002063 ± 2.973e−06
0.0022
0.00215
0.0021
0.00205
0.002
0.00195
0.0019
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

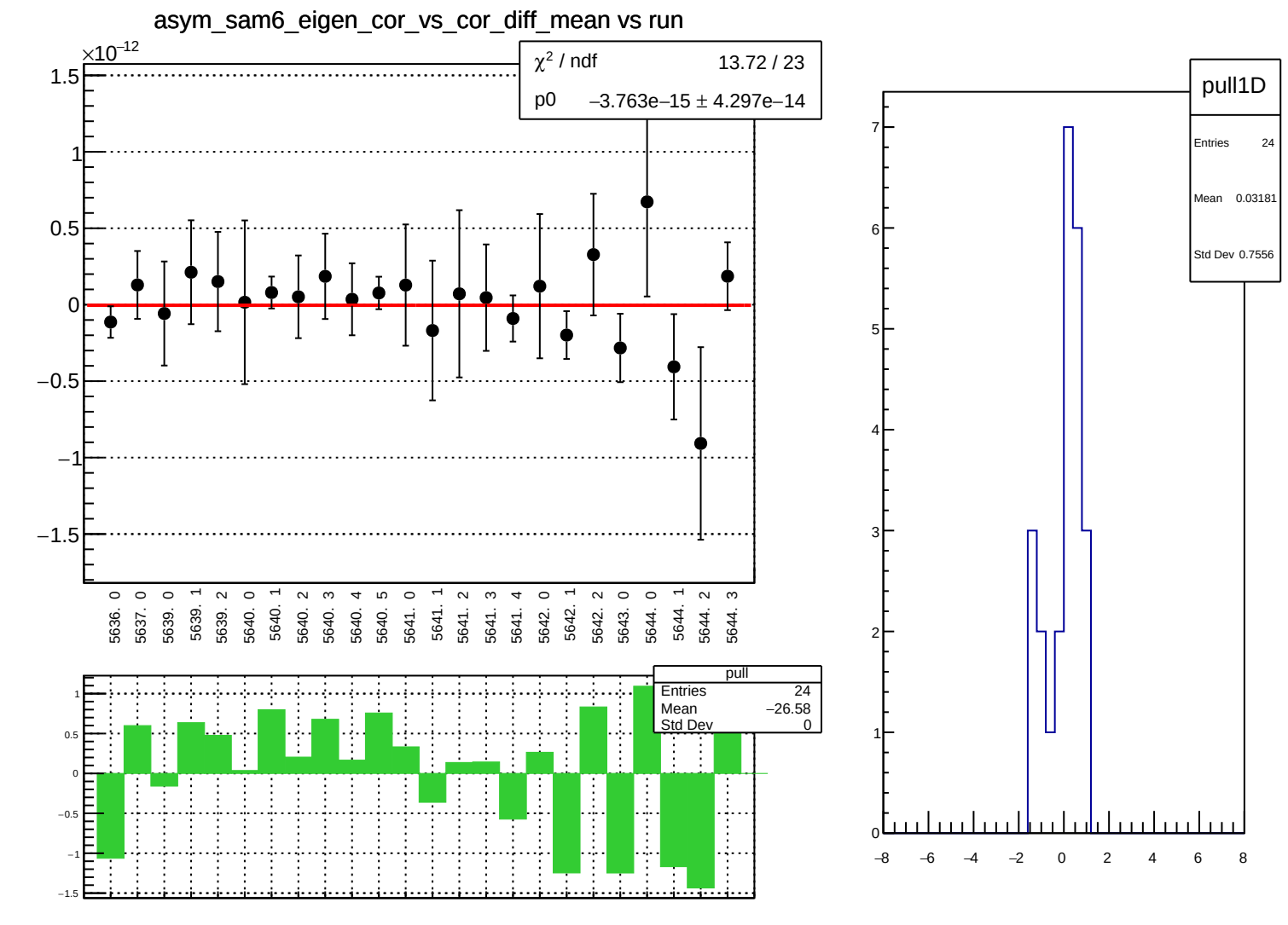

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 20.35 / 23
p0 0.08239 ± 0.05436
1
0.5
0
−0.5
−1
−1.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 24.07
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean −0.07342
Std Dev 0.9179
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

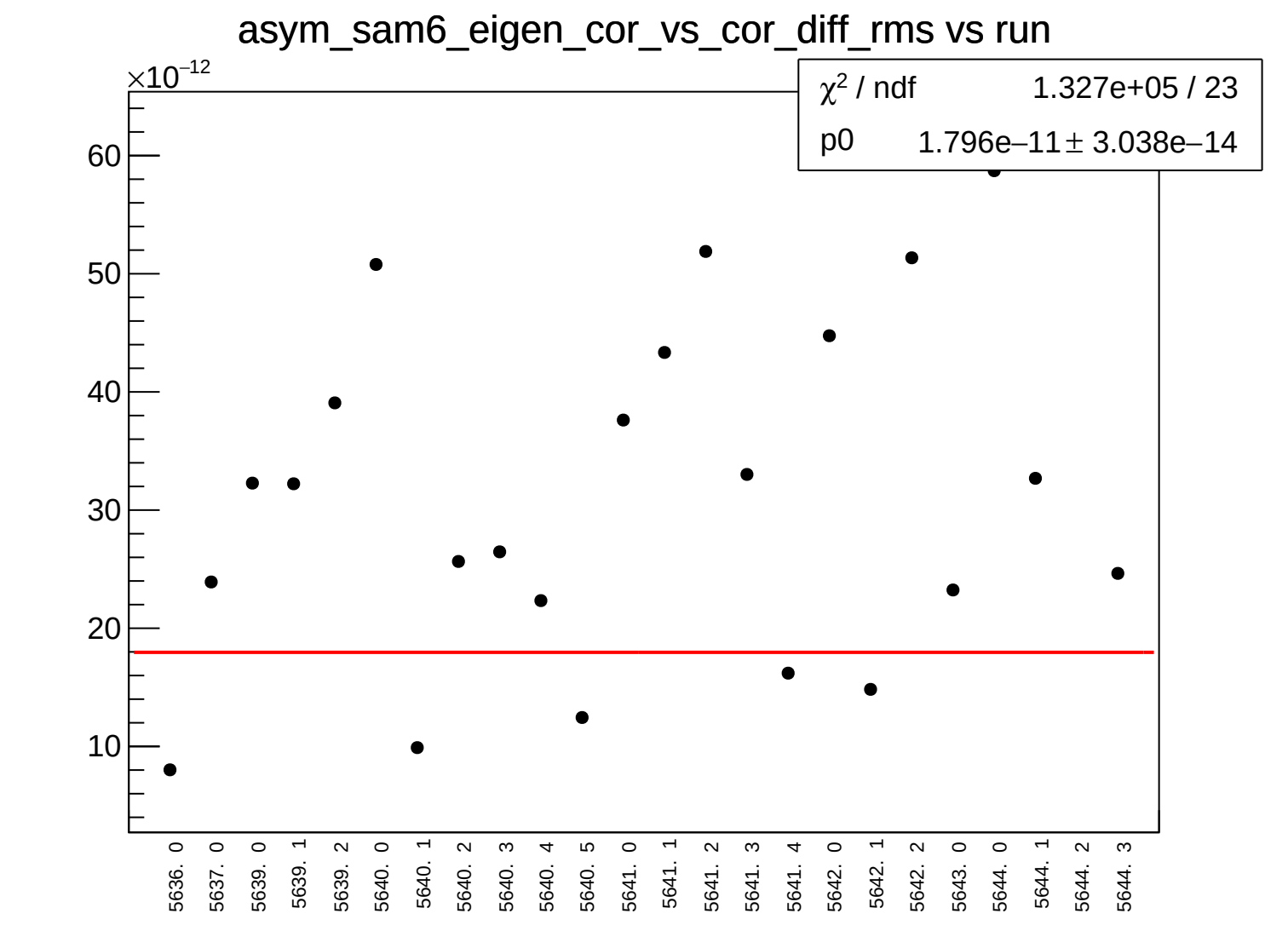

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.129e+04 / 23
p0 25.23 ± 0.03844
50
45
40
35
30
25
20
15
10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

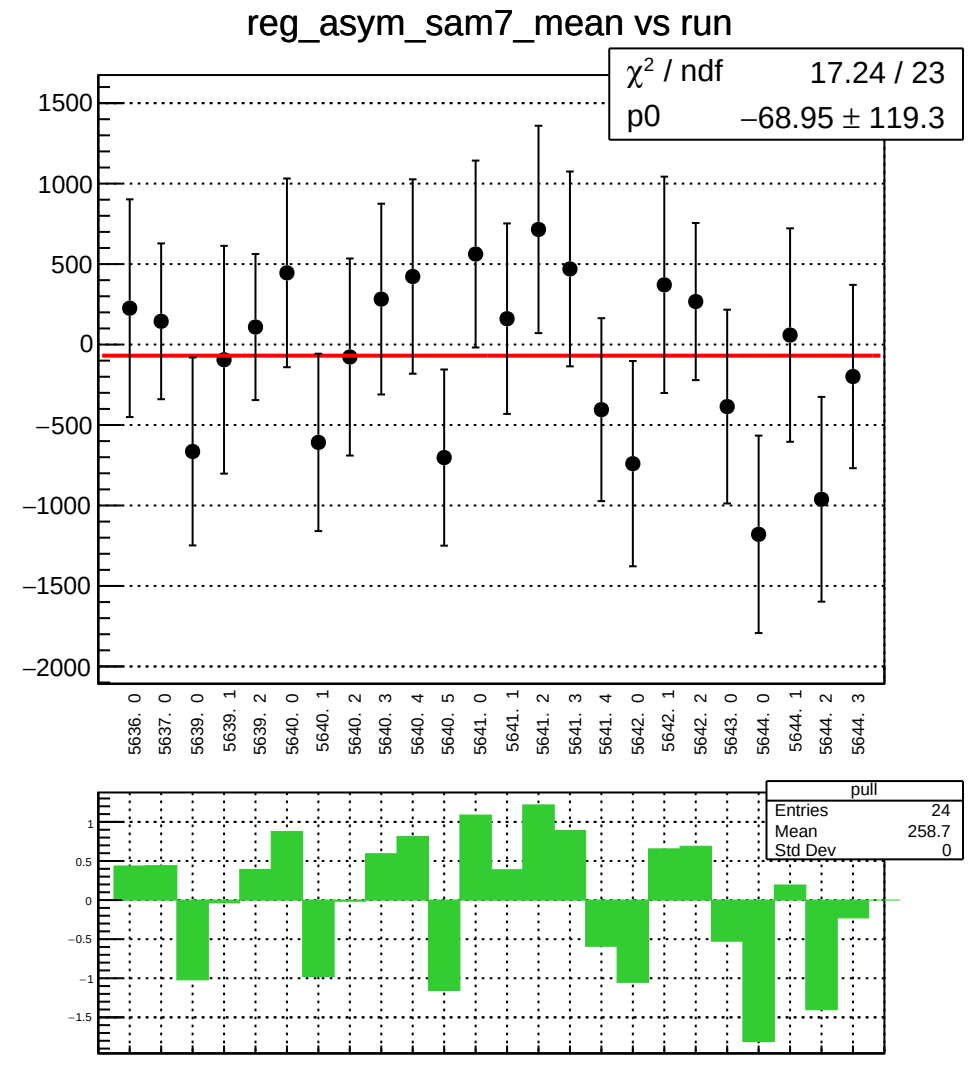

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 20.35 / 23
p0 0.08239 ± 0.05436
1
0.5
0
−0.5
−1
−1.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 24.07
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

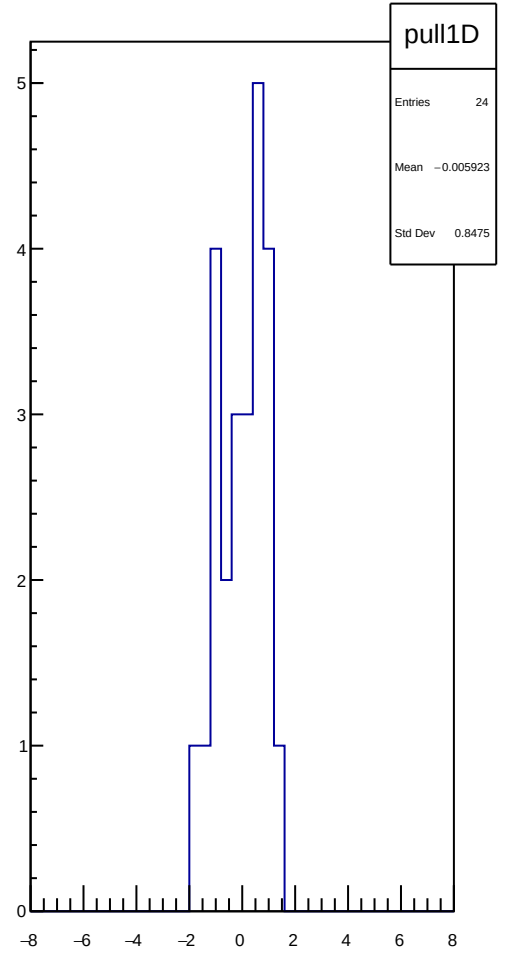

pull1D
Entries 24
Mean −0.07342
Std Dev 0.9179
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

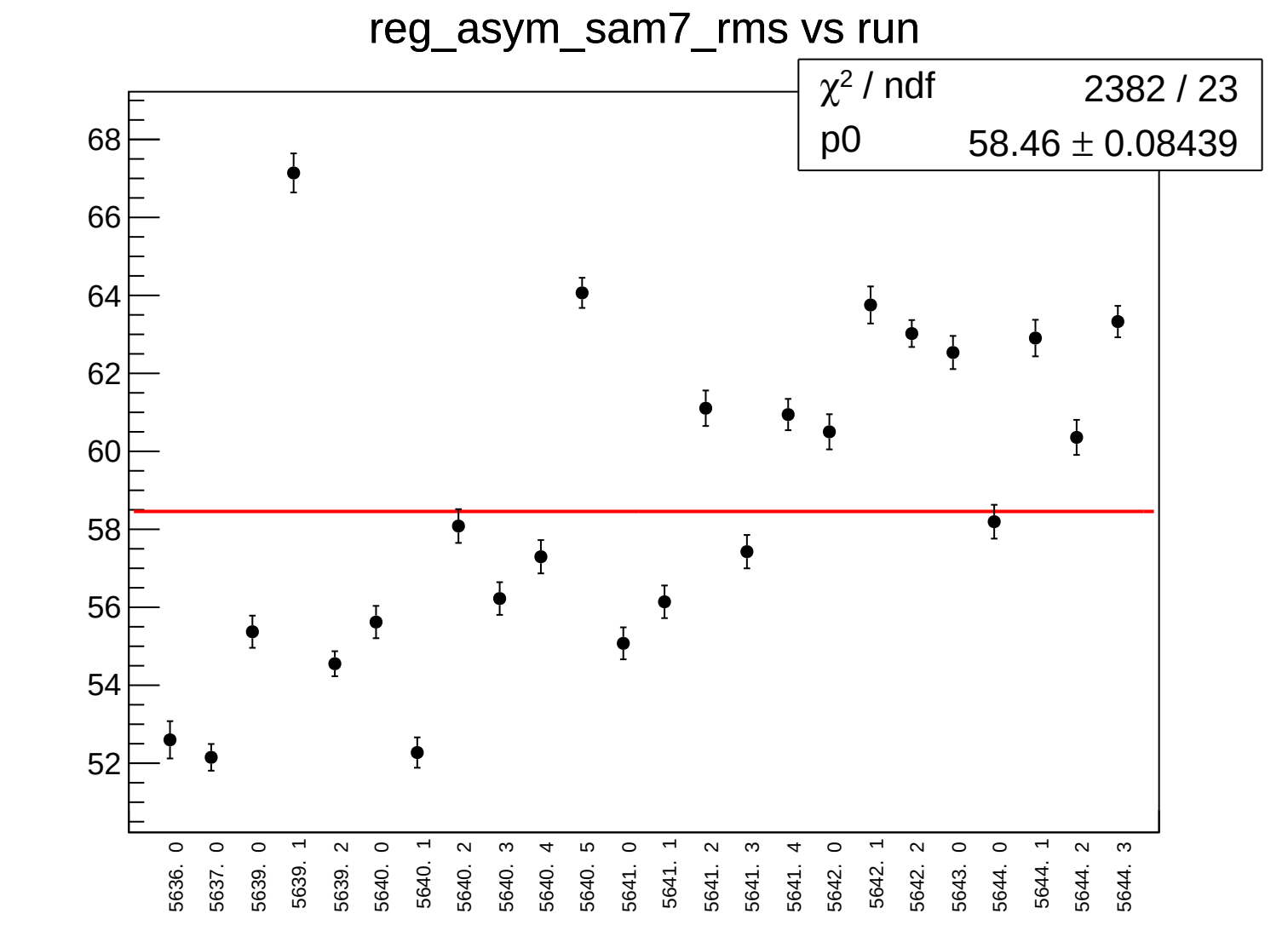

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.129e+04 / 23
p0 25.23 ± 0.03844
50
45
40
35
30
25
20
15
10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

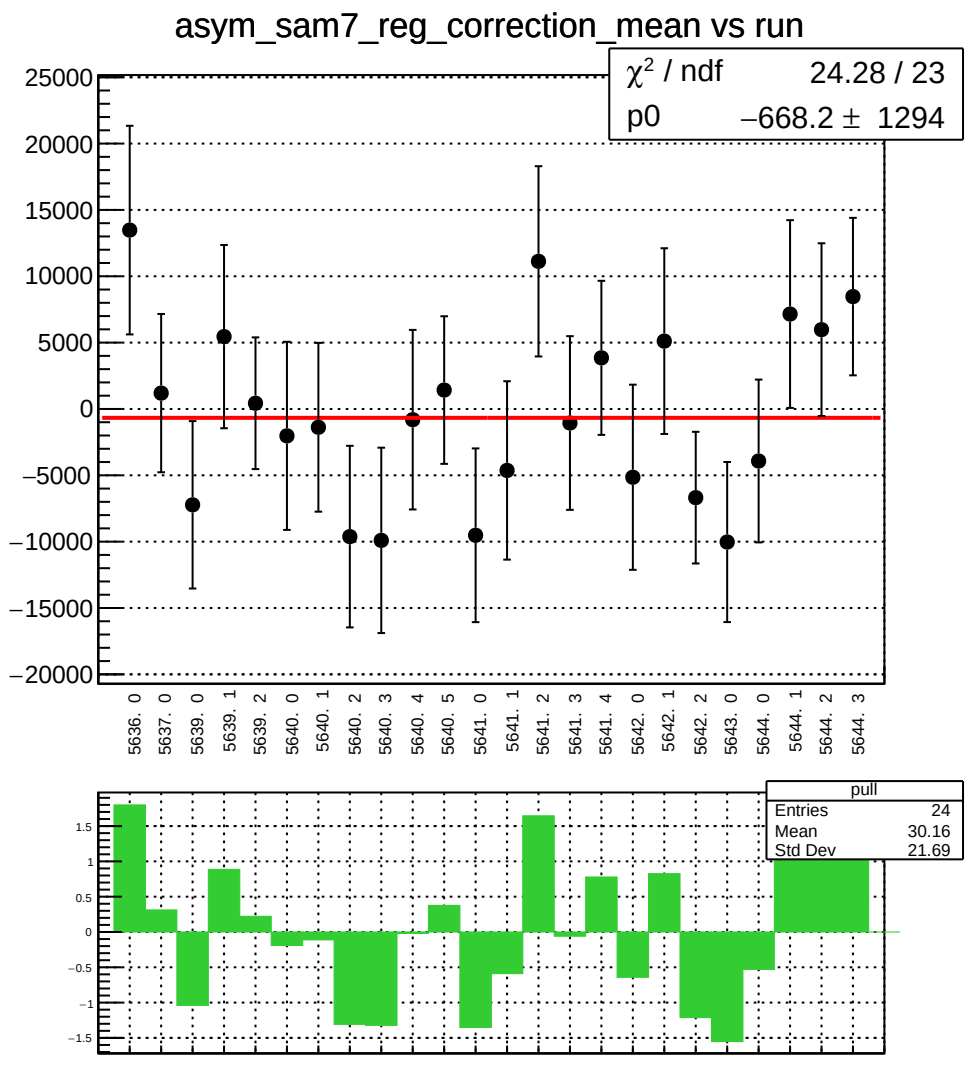

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 13.72 / 23
p0 −3.763e−15 ± 4.297e−14
1.5
1
0.5
0
−0.5
−1
−1.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −26.58
Std Dev 0
pull1D
Entries 24
Mean 0.03181
Std Dev 0.7556
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

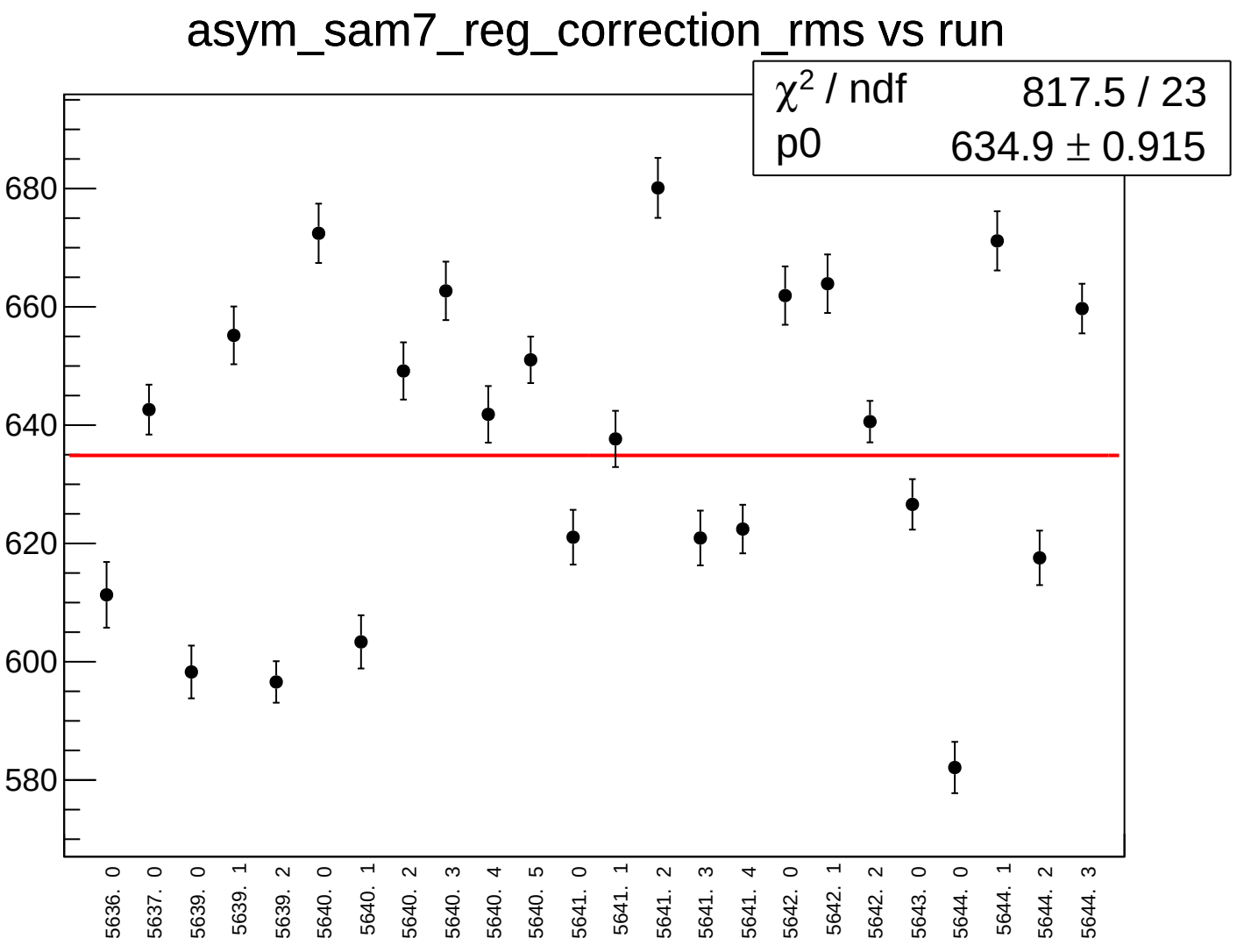

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10−12
χ2 / ndf 1.327e+05 / 23
p0 1.796e−11 ± 3.038e−14
60
50
40
30
20
10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

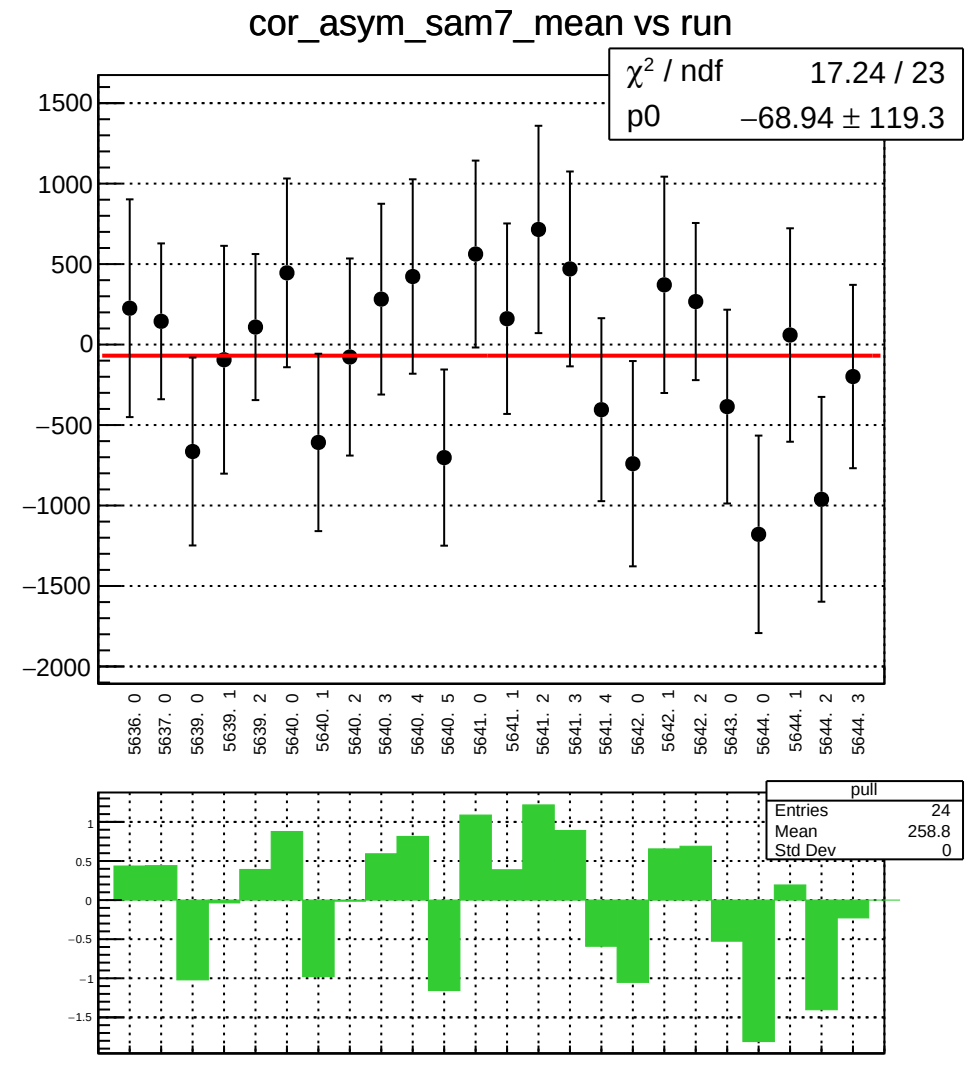

reg_asym_sam7_mean vs run
χ² / ndf 17.24 / 23
p0 −68.95 ± 119.3
1500
1000
500
0
−500
−1000
−1500
−2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 258.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

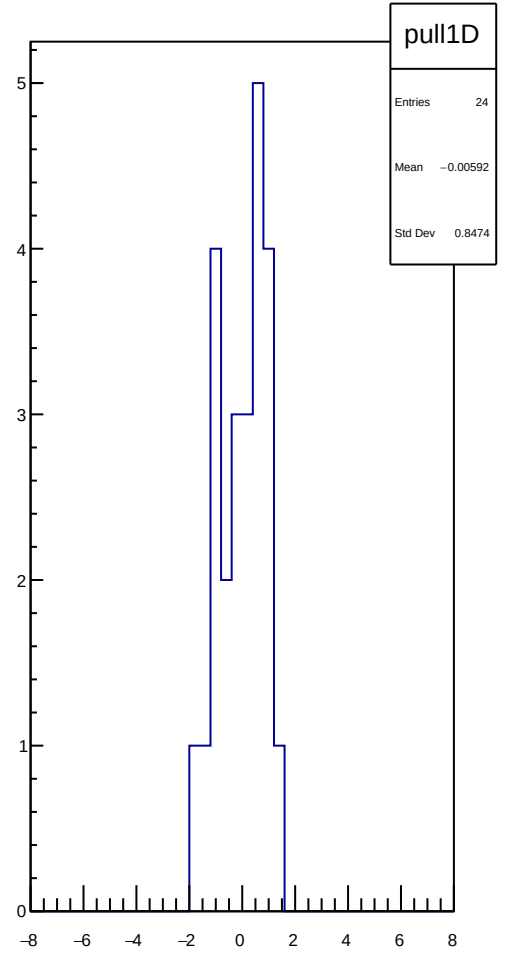

pull1D
Entries 24
Mean −0.005923
Std Dev 0.8475
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

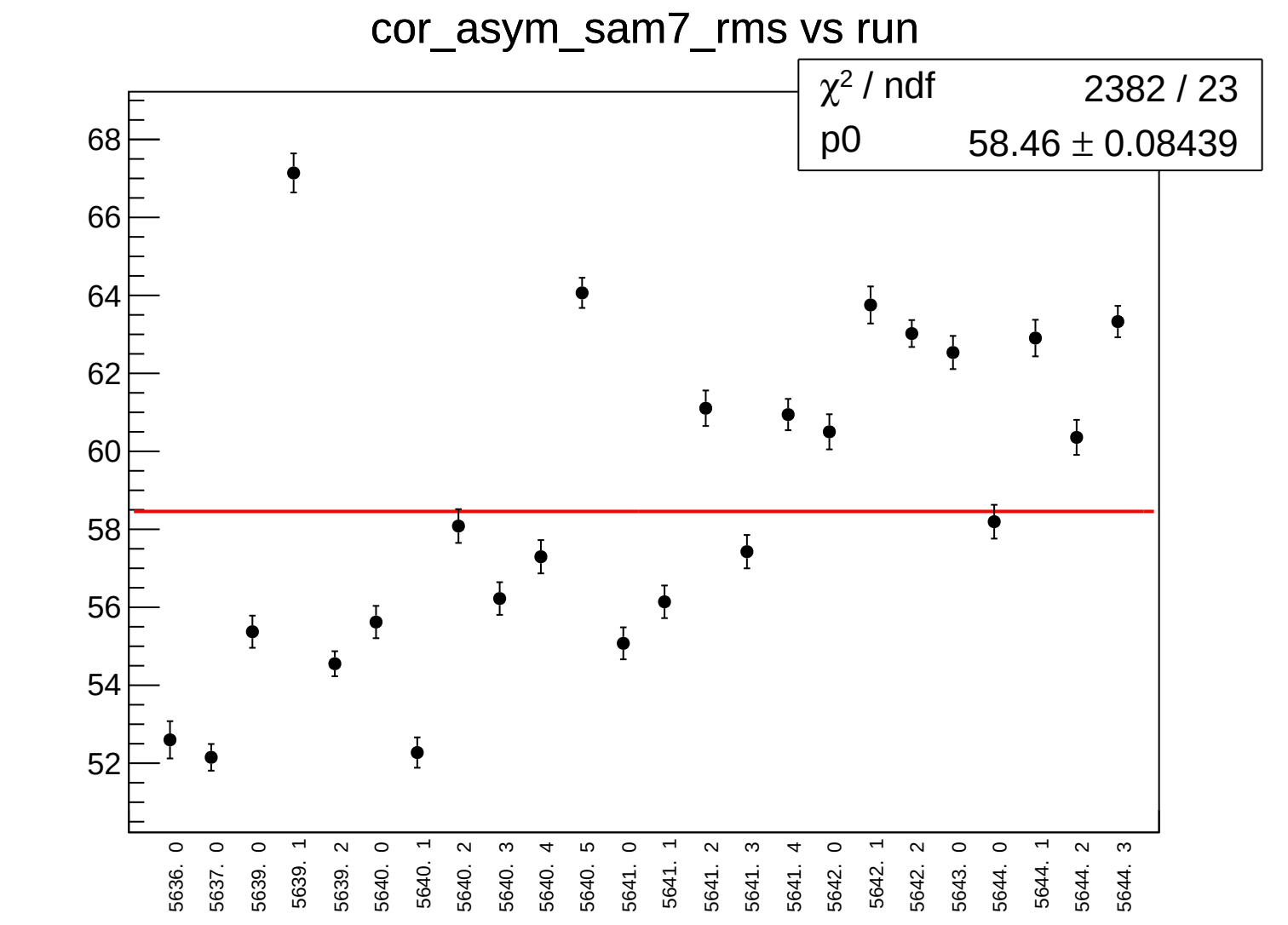

reg_asym_sam7_rms vs run
χ² / ndf 2382 / 23
p0 58.46 ± 0.08439
68
66
64
62
60
58
56
54
52
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

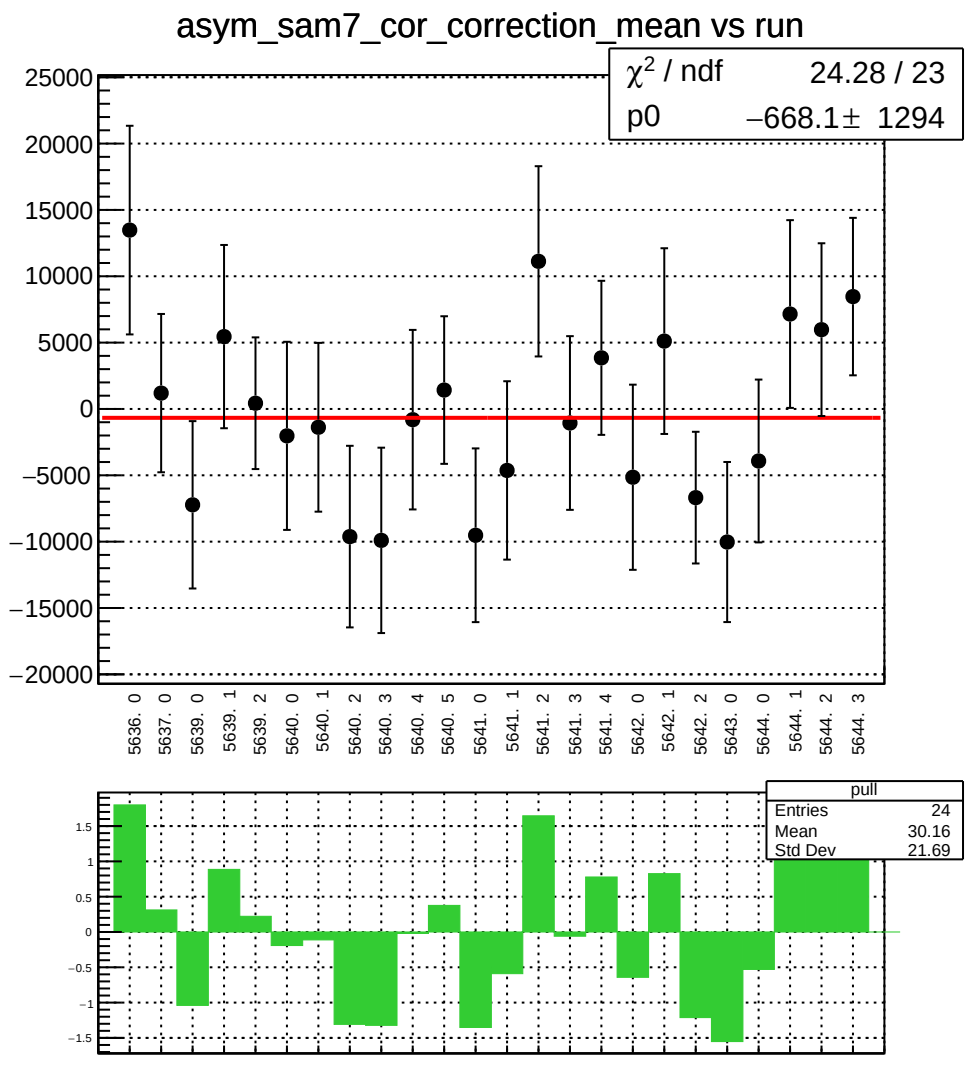

asym_sam7_reg_correction_mean vs run
χ² / ndf 24.28 / 23
p0 −668.2 ± 1294
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 30.16
Std Dev 21.69
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.02422
Std Dev 1.006
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

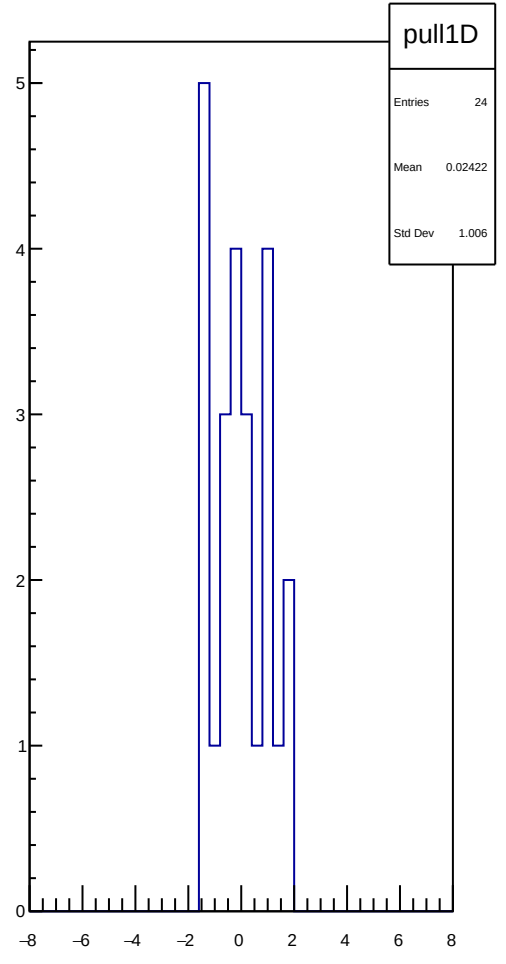

asym_sam7_reg_correction_rms vs run
χ² / ndf 817.5 / 23
p0 634.9 ± 0.915
680
660
640
620
600
580
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

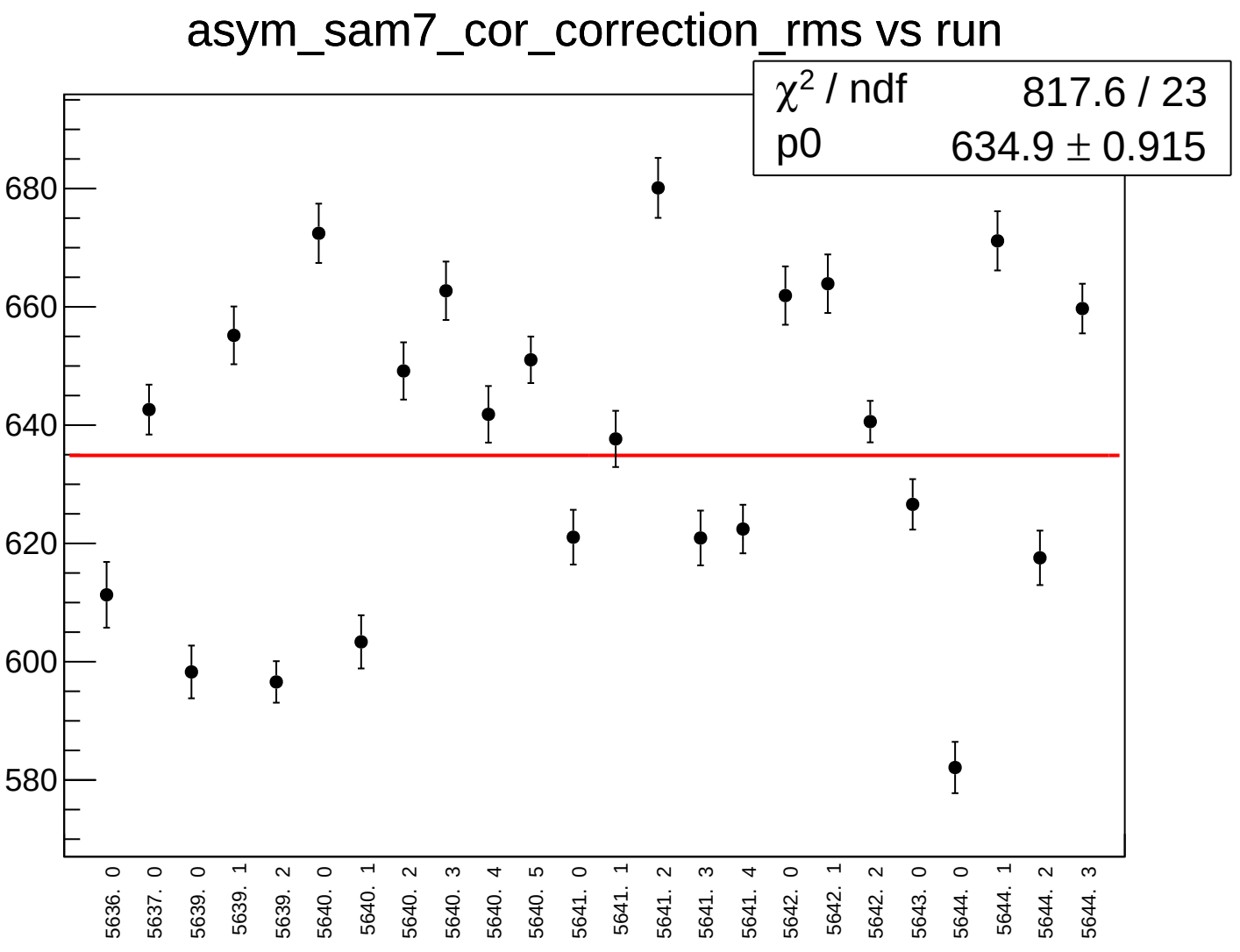

cor_asym_sam7_mean vs run
χ² / ndf 17.24 / 23
p0 −68.94 ± 119.3
1500
1000
500
0
−500
−1000
−1500
−2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 258.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

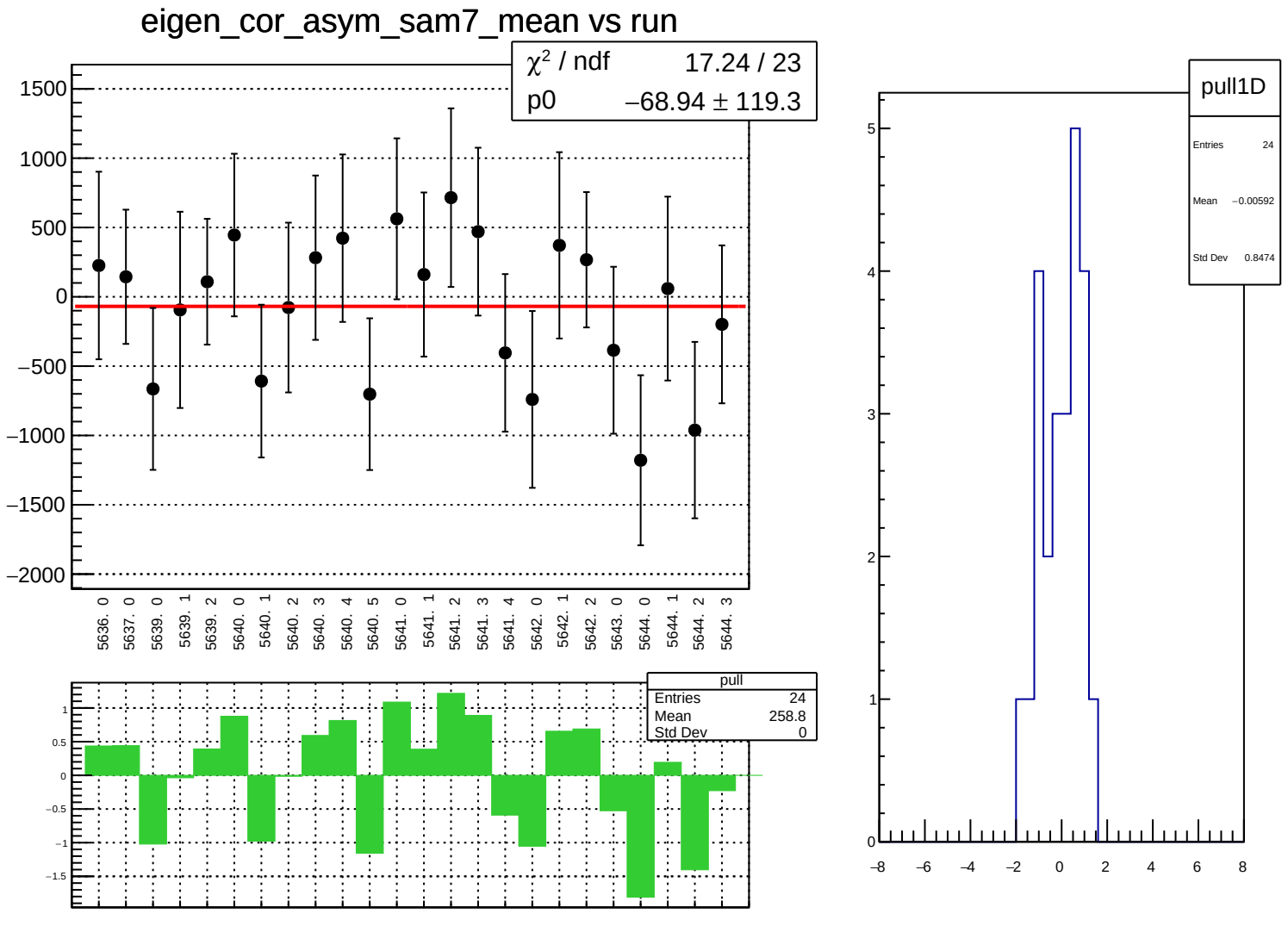

pull1D
Entries 24
Mean −0.00592
Std Dev 0.8474
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

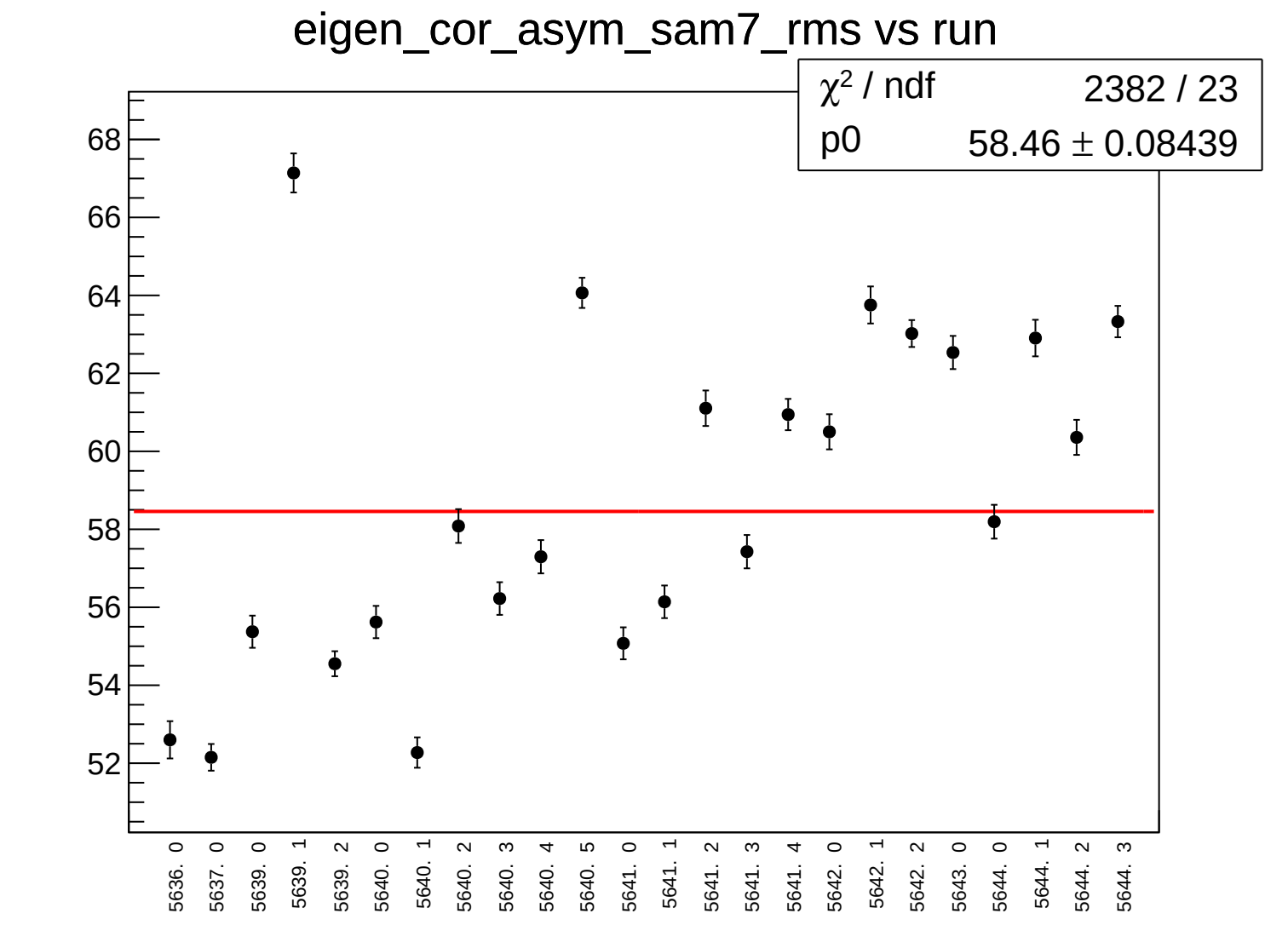

cor_asym_sam7_rms vs run
χ² / ndf 2382 / 23
p0 58.46 ± 0.08439
68
66
64
62
60
58
56
54
52
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam7_cor_correction_mean vs run
χ² / ndf 24.28 / 23
p0 −668.1± 1294
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 30.16
Std Dev 21.69
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean 0.02422
Std Dev 1.006
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam7_cor_correction_rms vs run
χ² / ndf 817.6 / 23
p0 634.9 ± 0.915
680
660
640
620
600
580
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_cor_asym_sam7_mean vs run
χ² / ndf 17.24 / 23
p0 −68.94 ± 119.3
1500
1000
500
0
−500
−1000
−1500
−2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 258.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.00592
Std Dev 0.8474
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam7_rms vs run
χ² / ndf 2382 / 23
p0 58.46 ± 0.08439
68
66
64
62
60
58
56
54
52
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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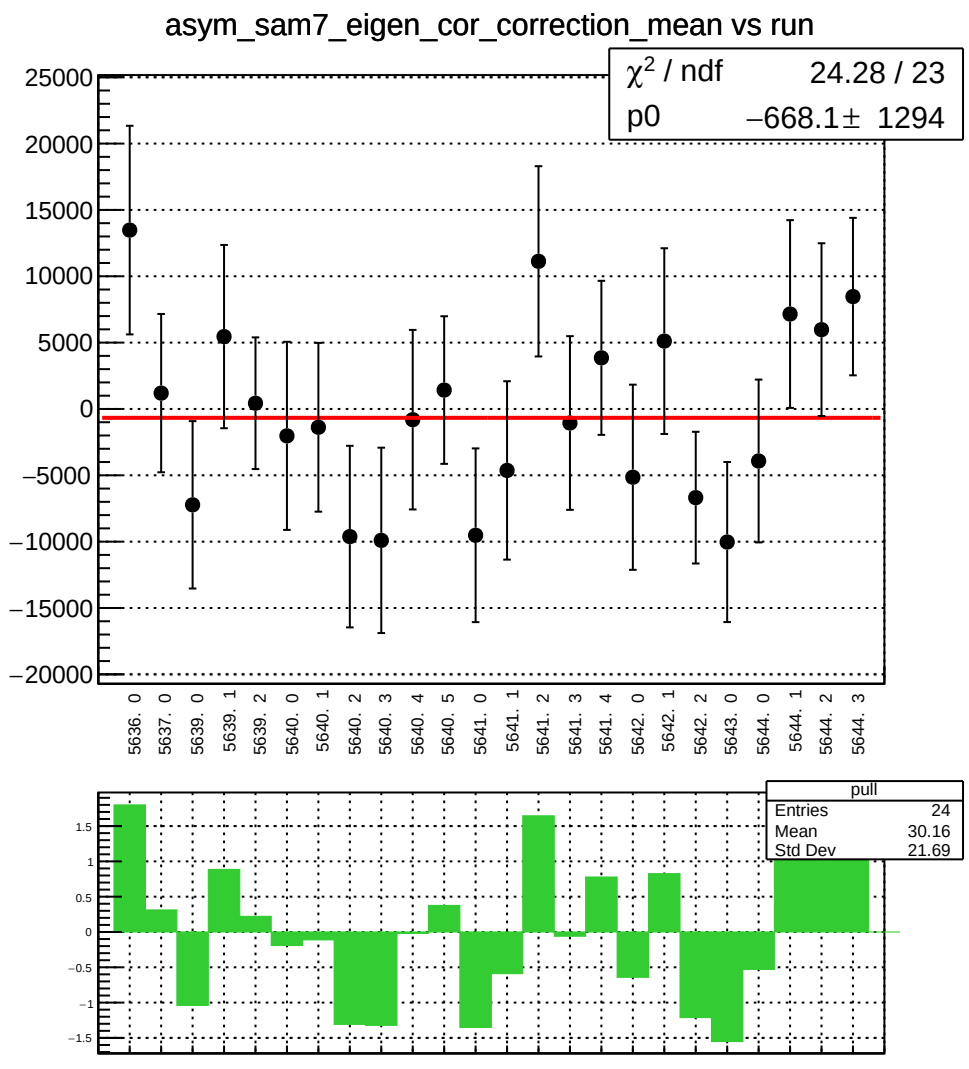
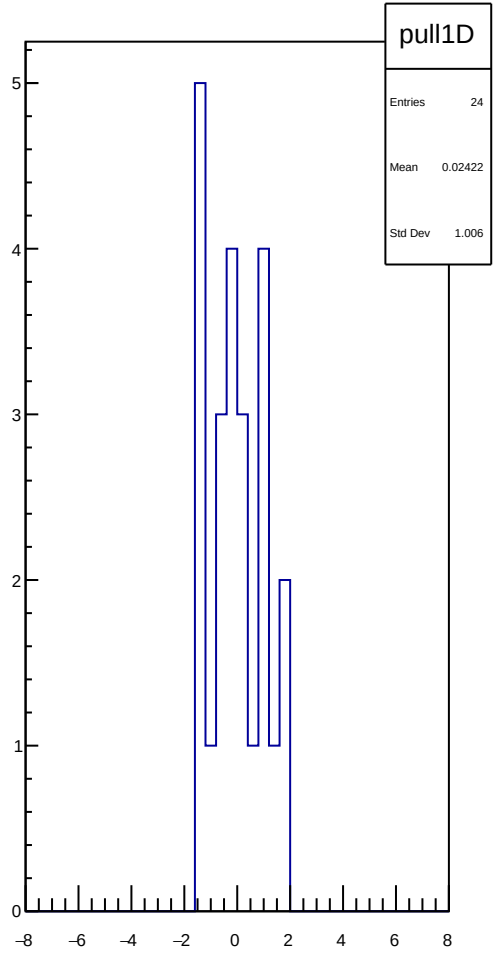
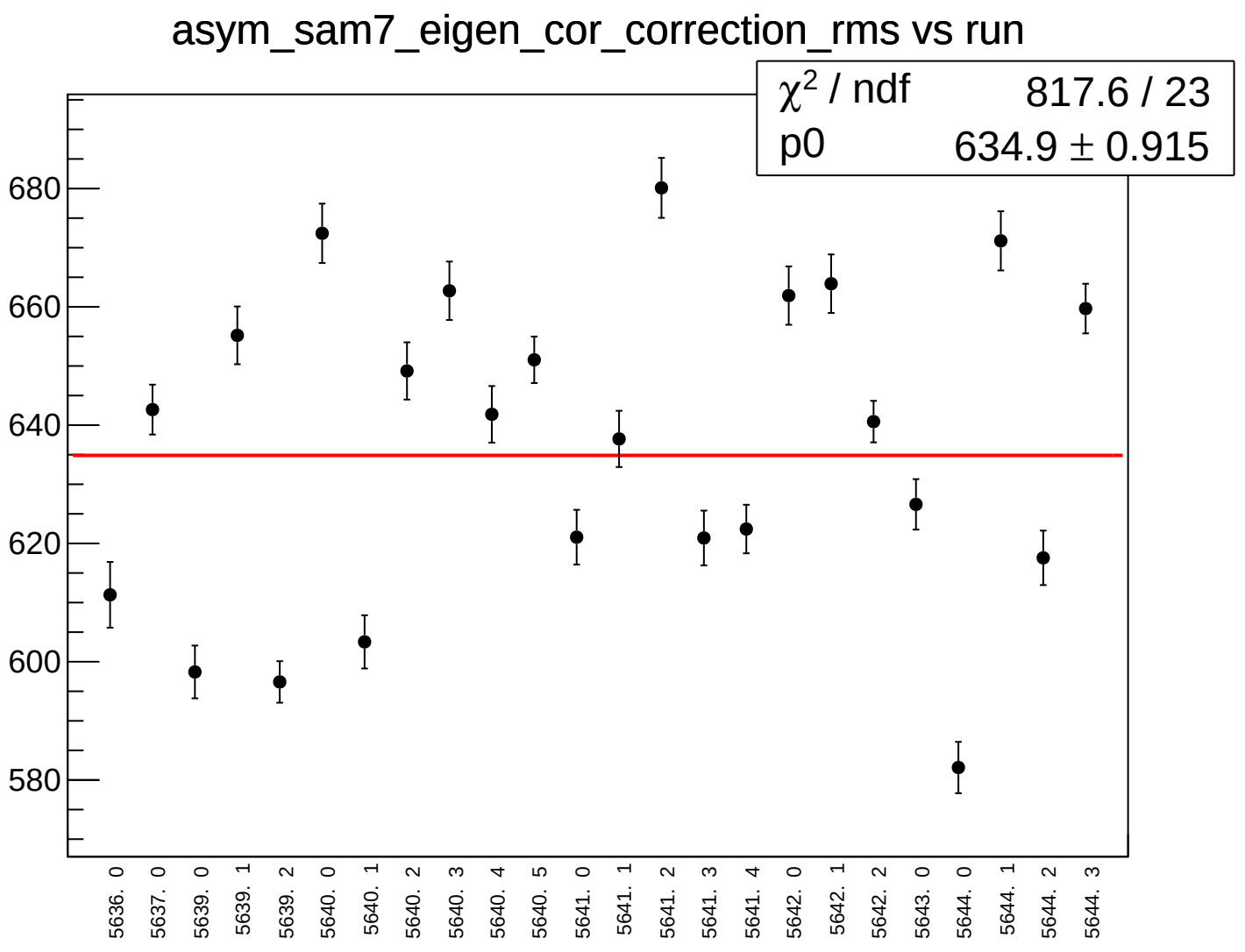
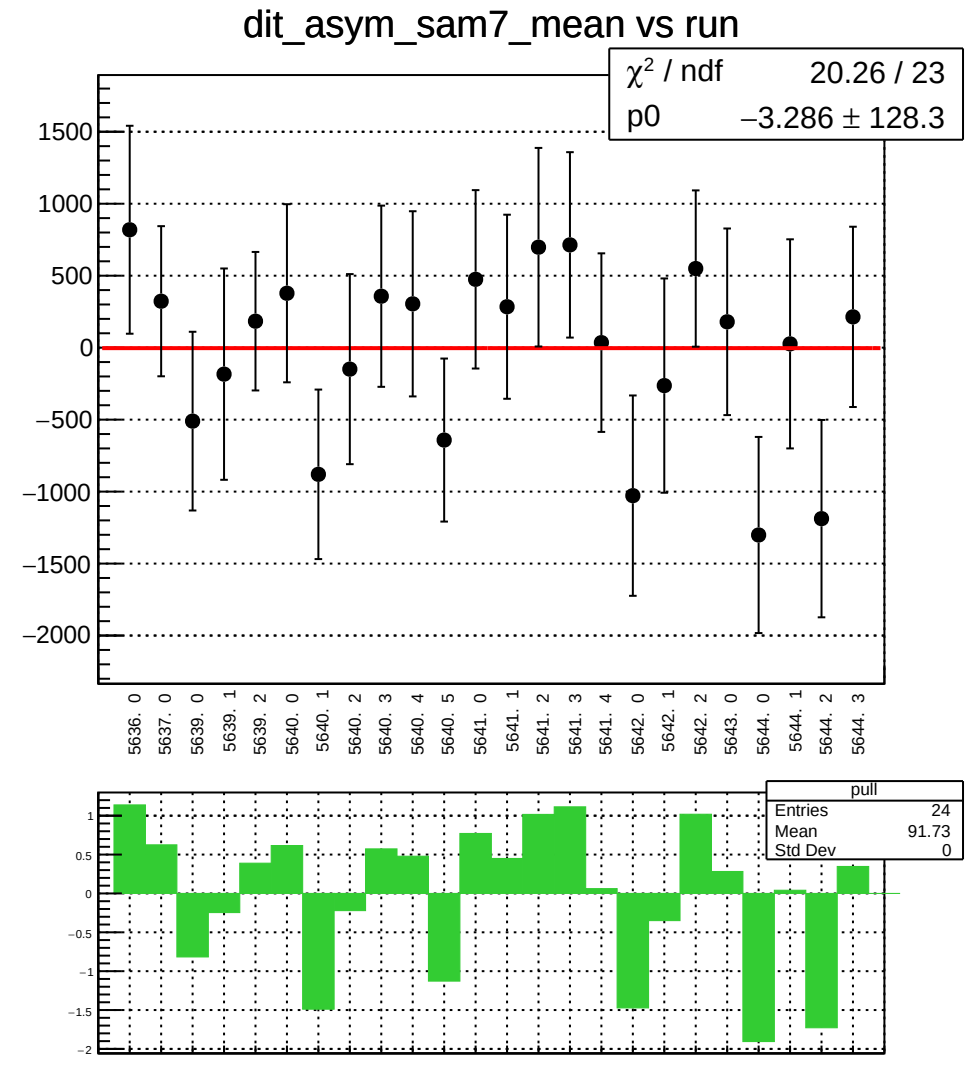
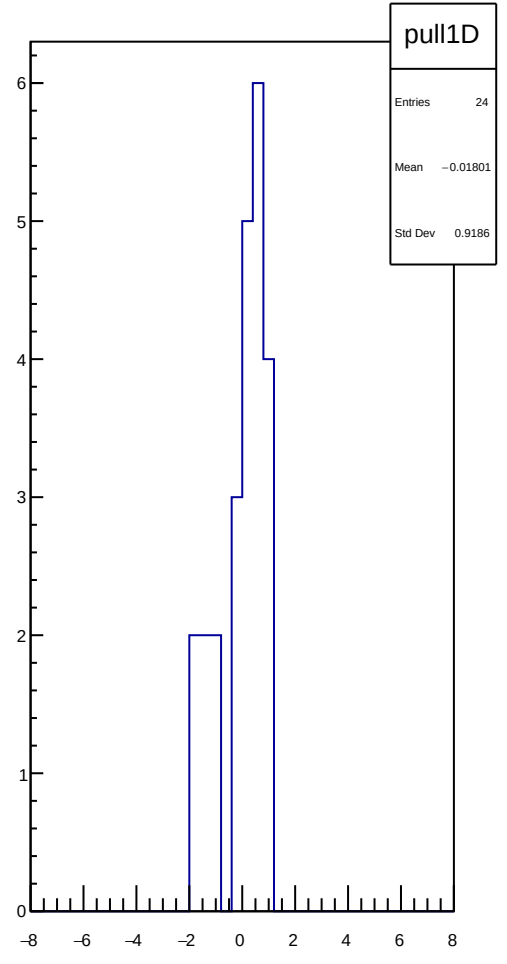
5644. 2
5644. 3

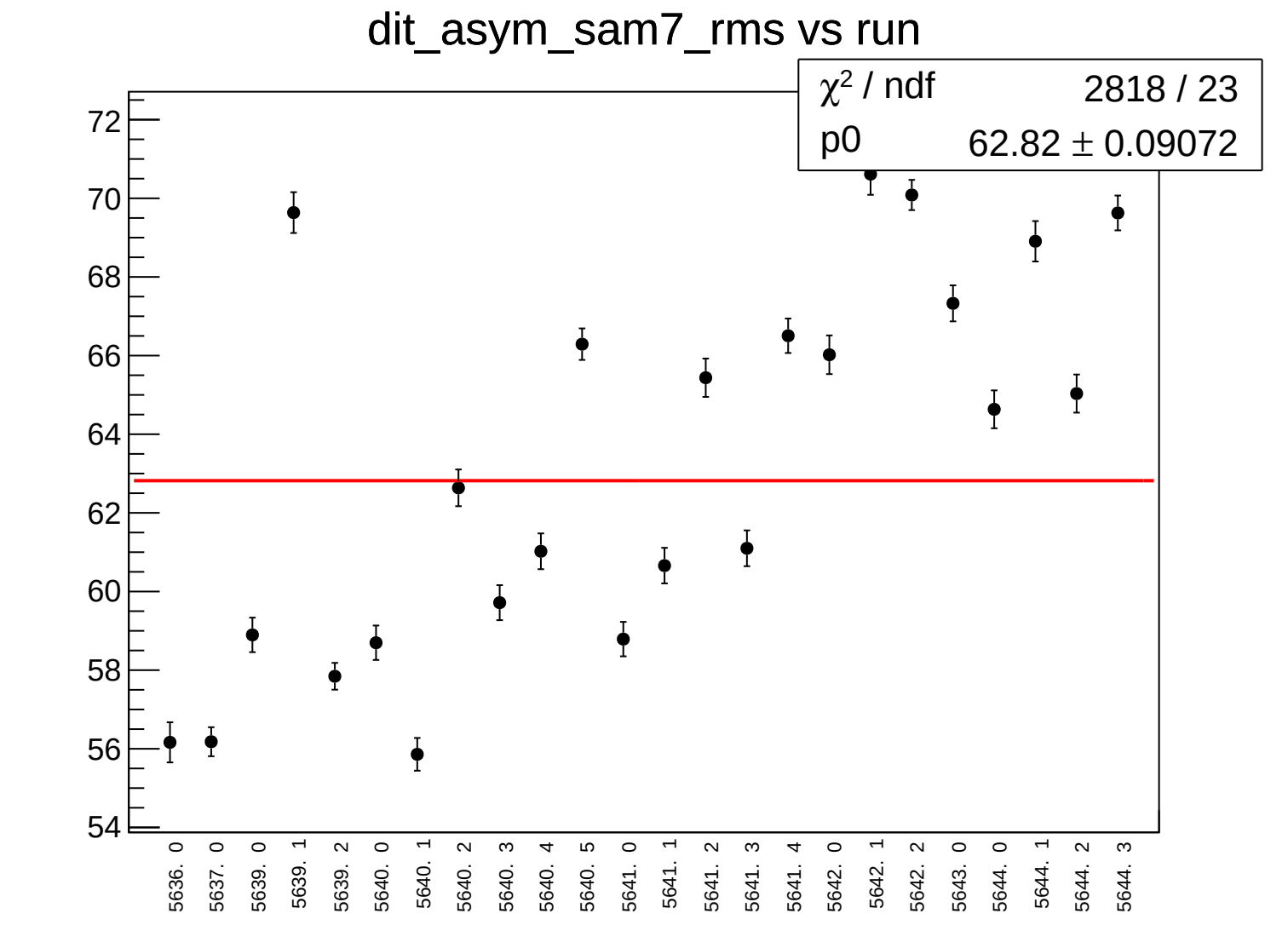

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 24.28 / 23
p0 −668.1± 1294
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 30.16
Std Dev 21.69
1.5
1
0.5
0
−0.5
−1
−1.5

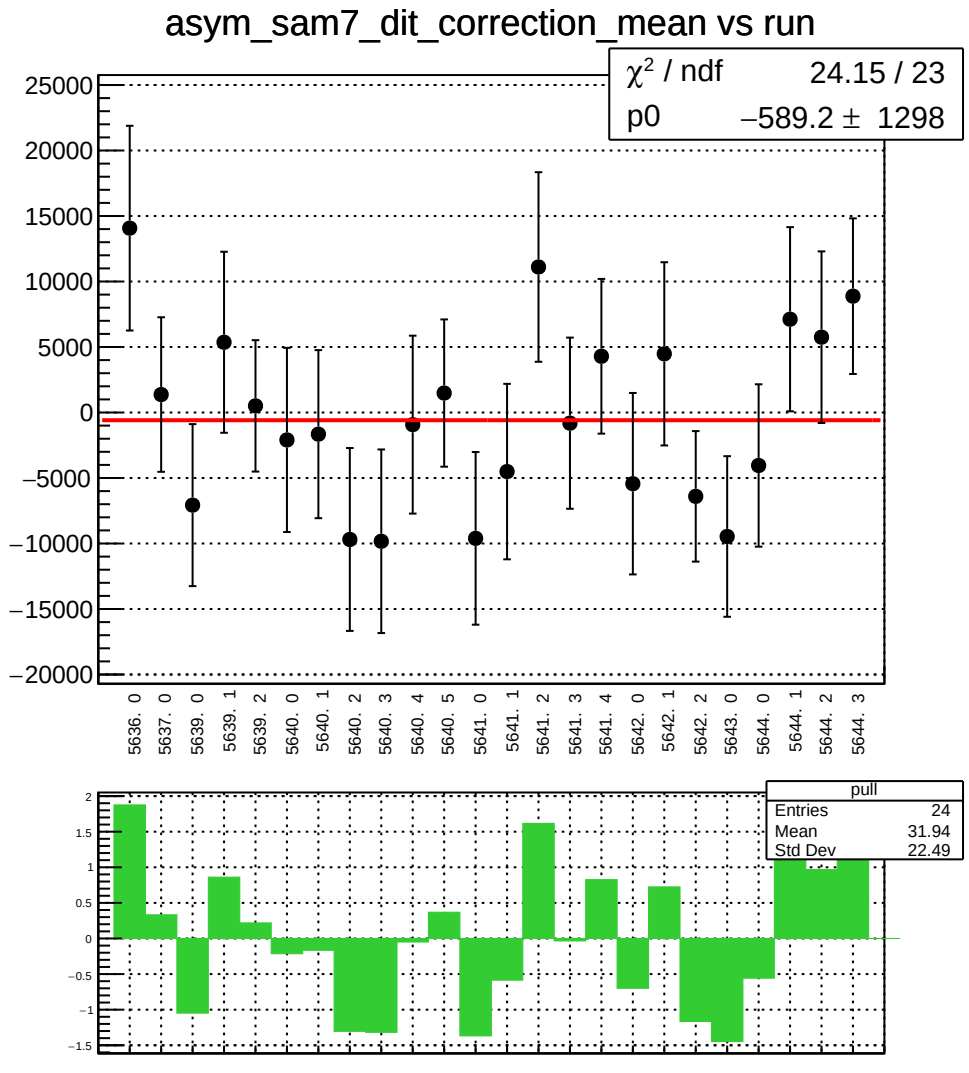

pull1D
Entries 24
Mean 0.02422
Std Dev 1.006
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

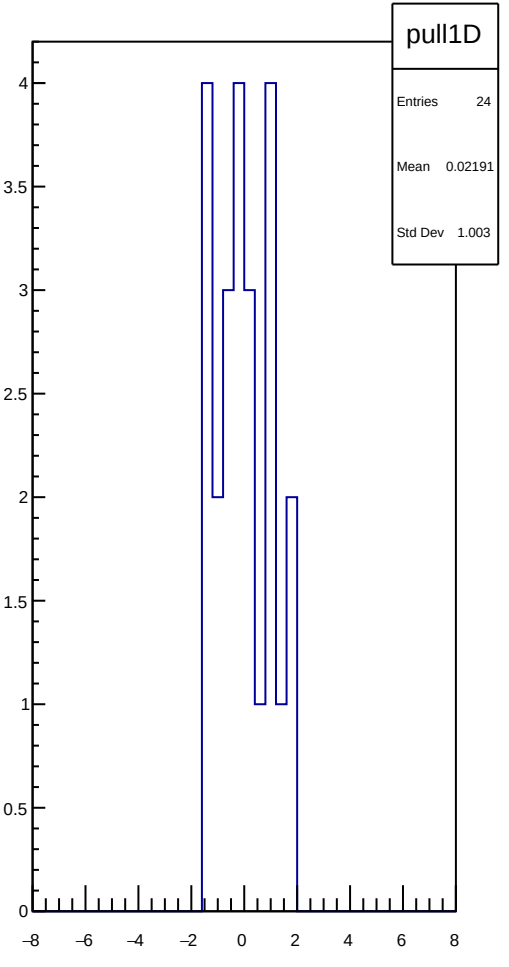

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 817.6 / 23
p0 634.9 ± 0.915
680
660
640
620
600
580
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

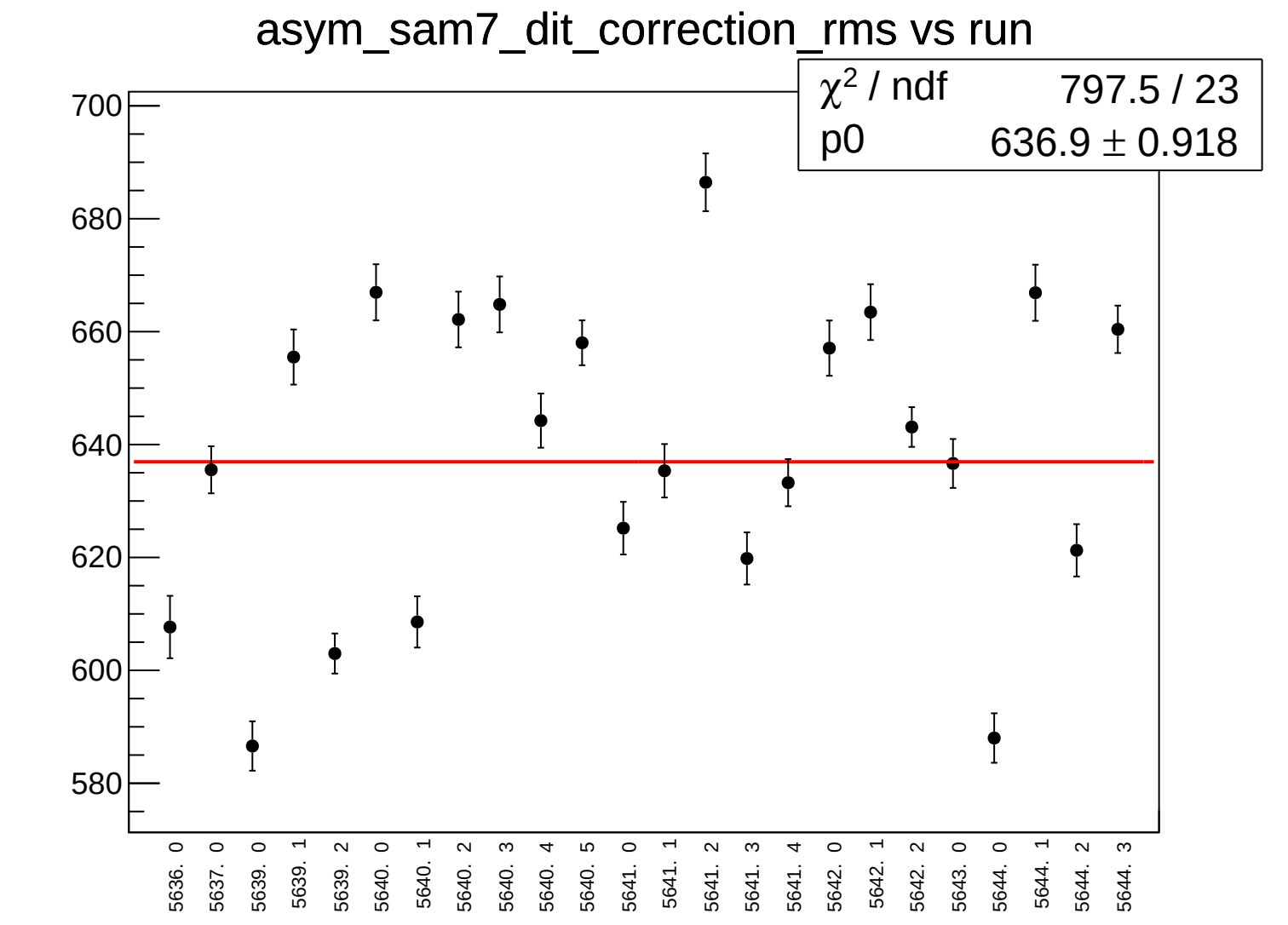

dit_asym_sam7_mean vs run
χ² / ndf 20.26 / 23
p0 −3.286 ± 128.3
1500
1000
500
0
−500
−1000
−1500
−2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 91.73
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

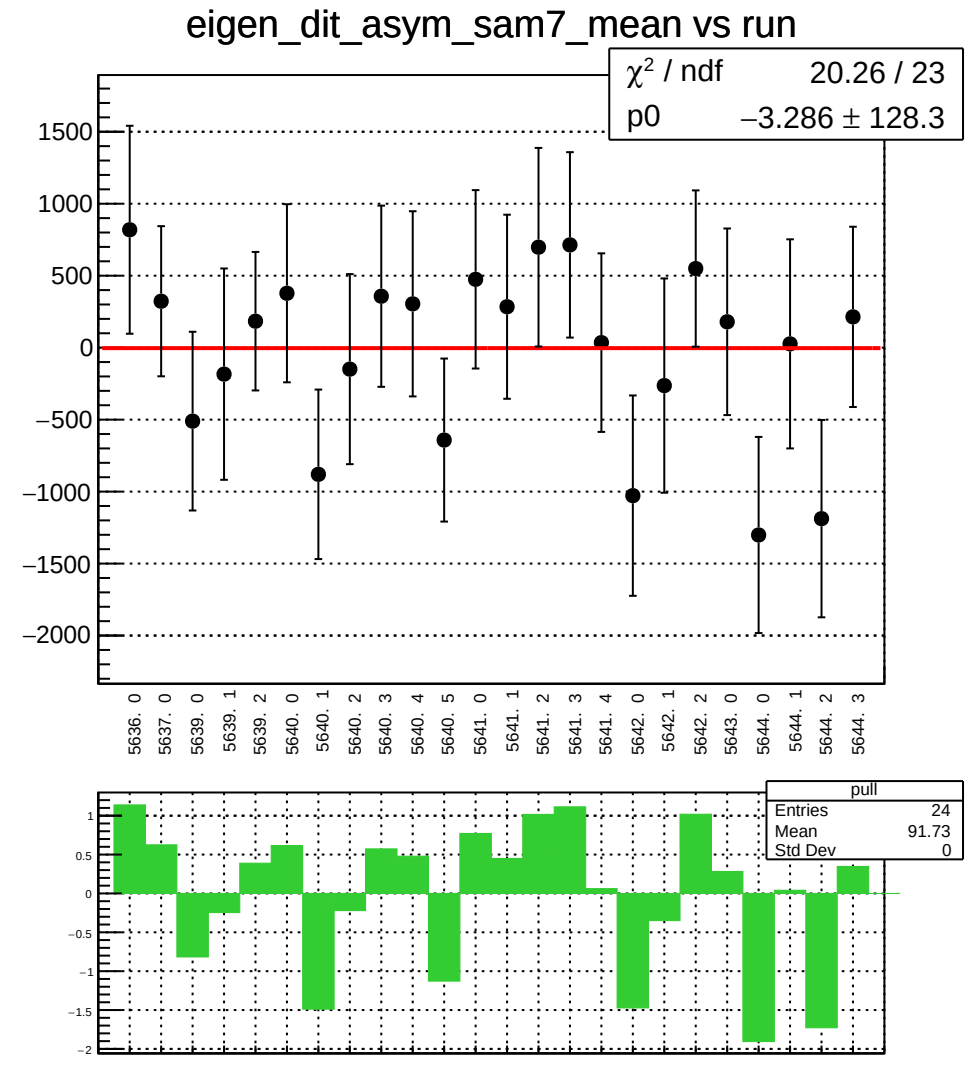

pull1D
Entries 24
Mean −0.01801
Std Dev 0.9186
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

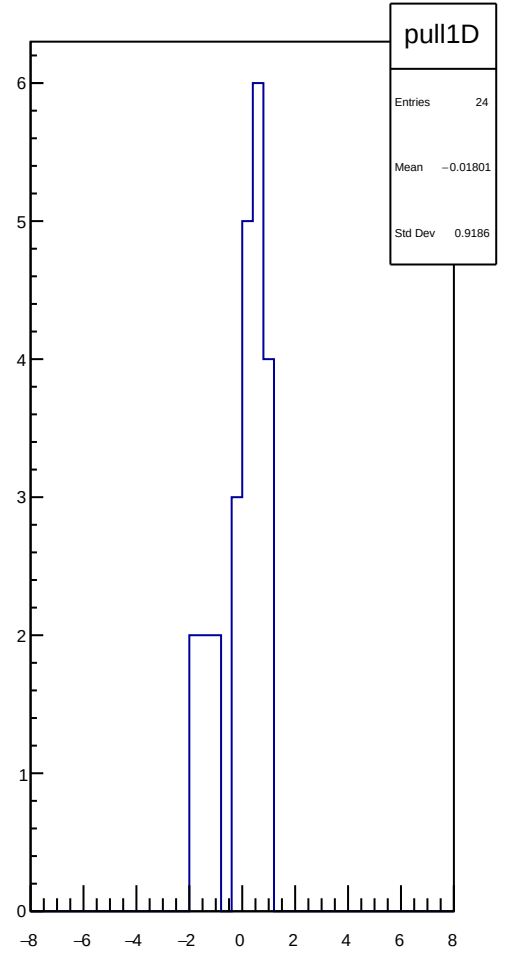

dit_asym_sam7_rms vs run
χ² / ndf 2818 / 23
p0 62.82 ± 0.09072
72
70
68
66
64
62
60
58
56
54
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

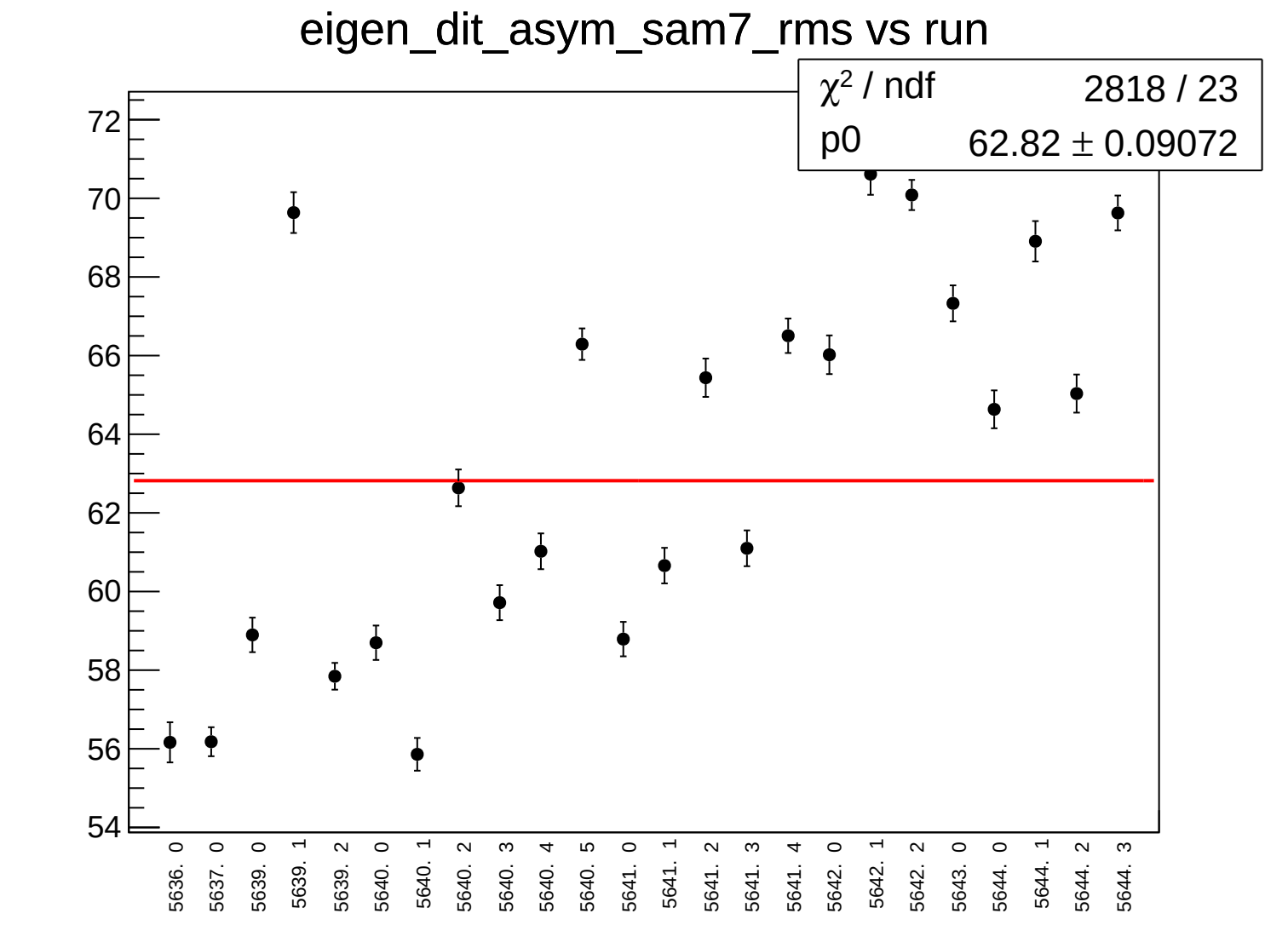

asym_sam7_dit_correction_mean vs run
χ² / ndf 24.15 / 23
p0 −589.2 ± 1298
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 31.94
Std Dev 22.49
2
1.5
1
0.5
0
−0.5
−1
−1.5

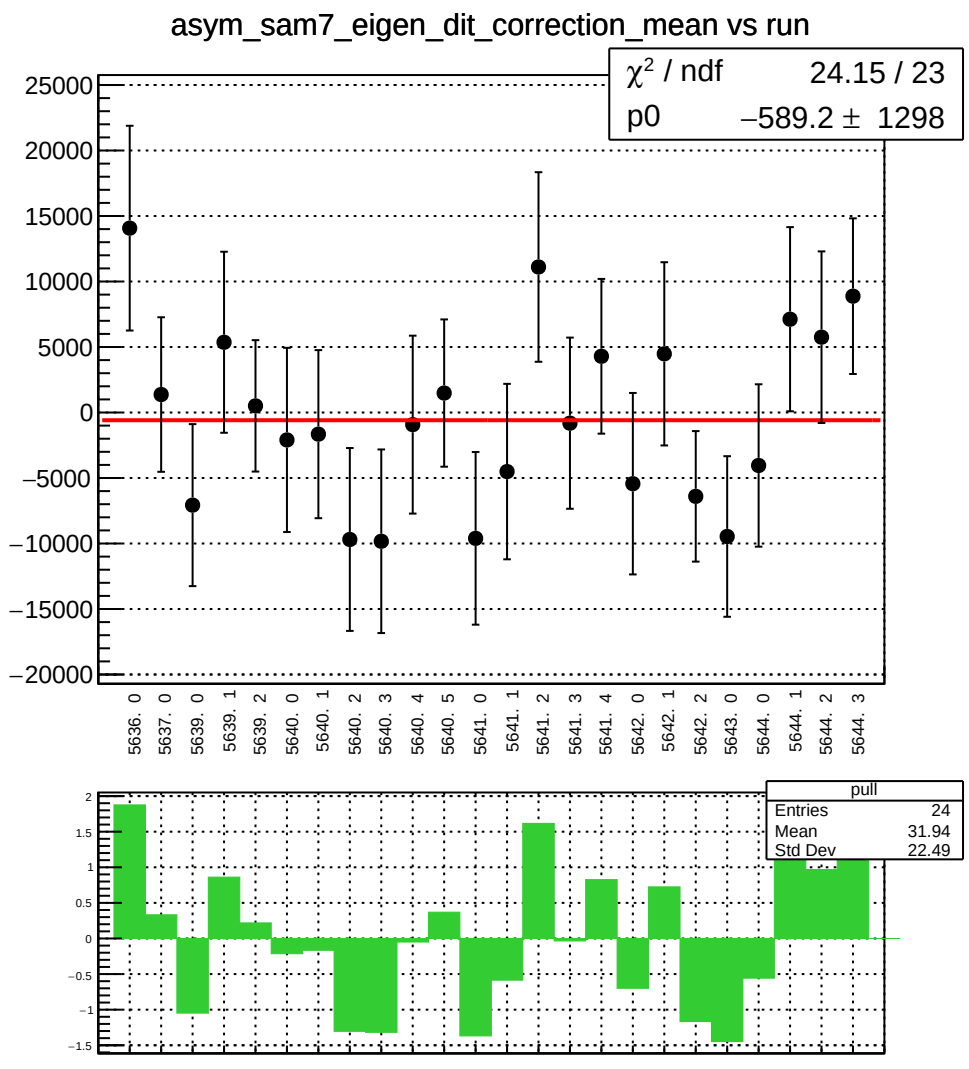

pull1D
Entries 24
Mean 0.02191
Std Dev 1.003
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

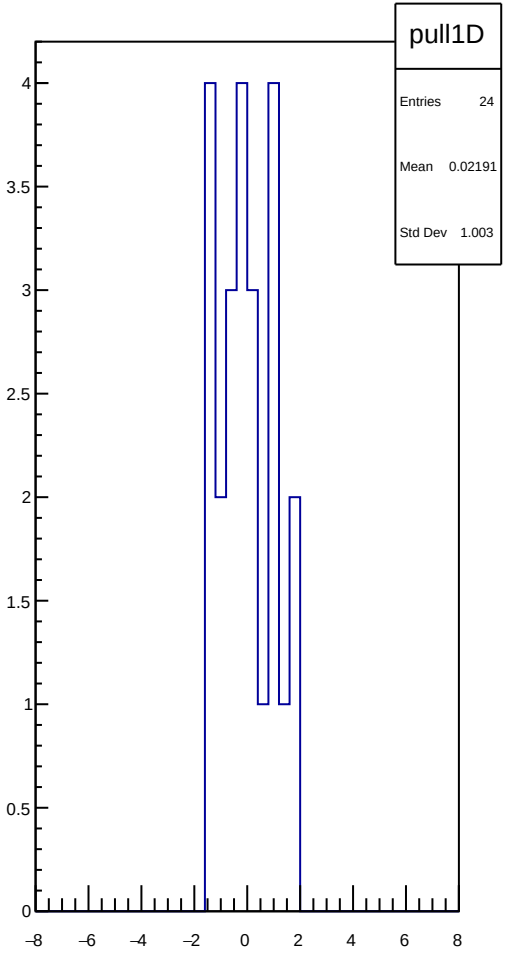

asym_sam7_dit_correction_rms vs run
χ² / ndf 797.5 / 23
p0 636.9 ± 0.918
700
680
660
640
620
600
580
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

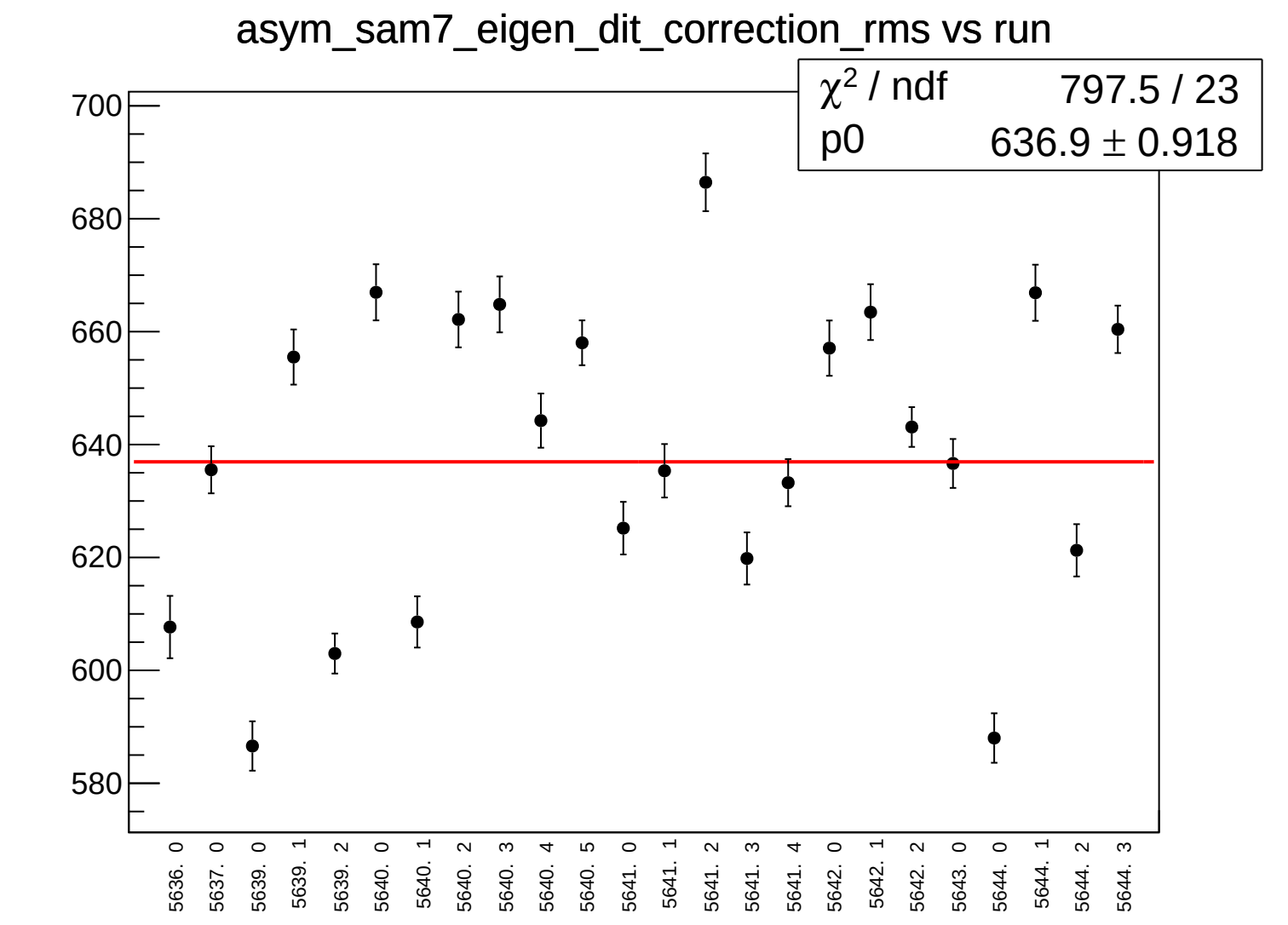

eigen_dit_asym_sam7_mean vs run
χ² / ndf 20.26 / 23
p0 −3.286 ± 128.3
1500
1000
500
0
−500
−1000
−1500
−2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 91.73
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

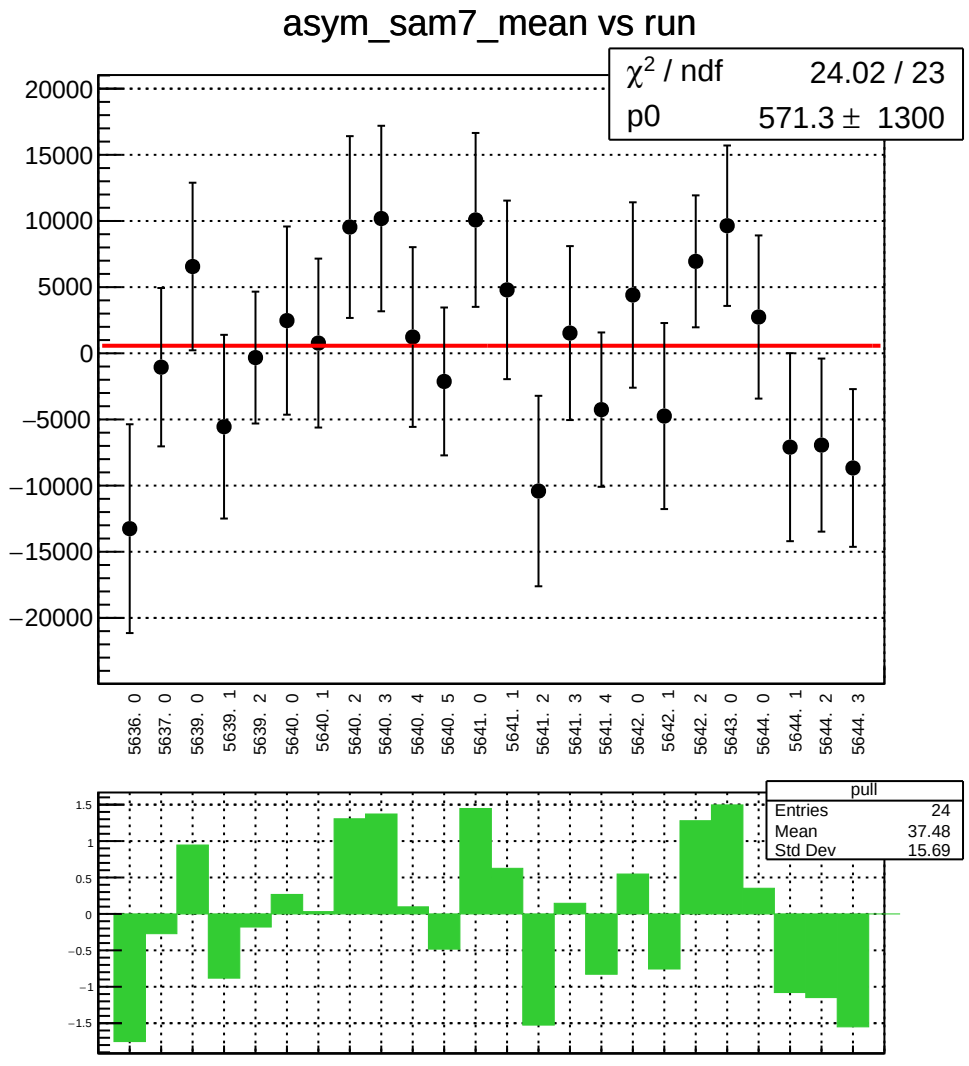

pull1D
Entries 24
Mean −0.01801
Std Dev 0.9186
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

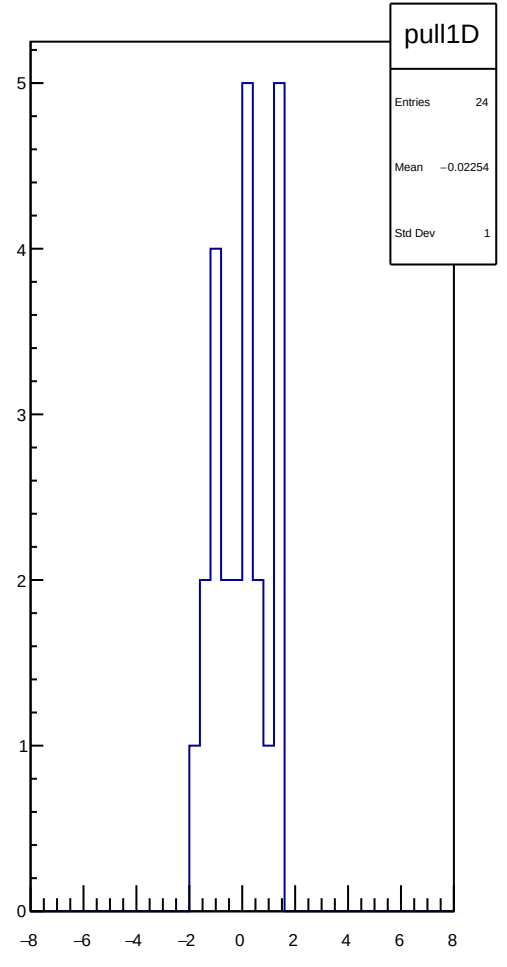

eigen_dit_asym_sam7_rms vs run
χ² / ndf 2818 / 23
p0 62.82 ± 0.09072
72
70
68
66
64
62
60
58
56
54
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

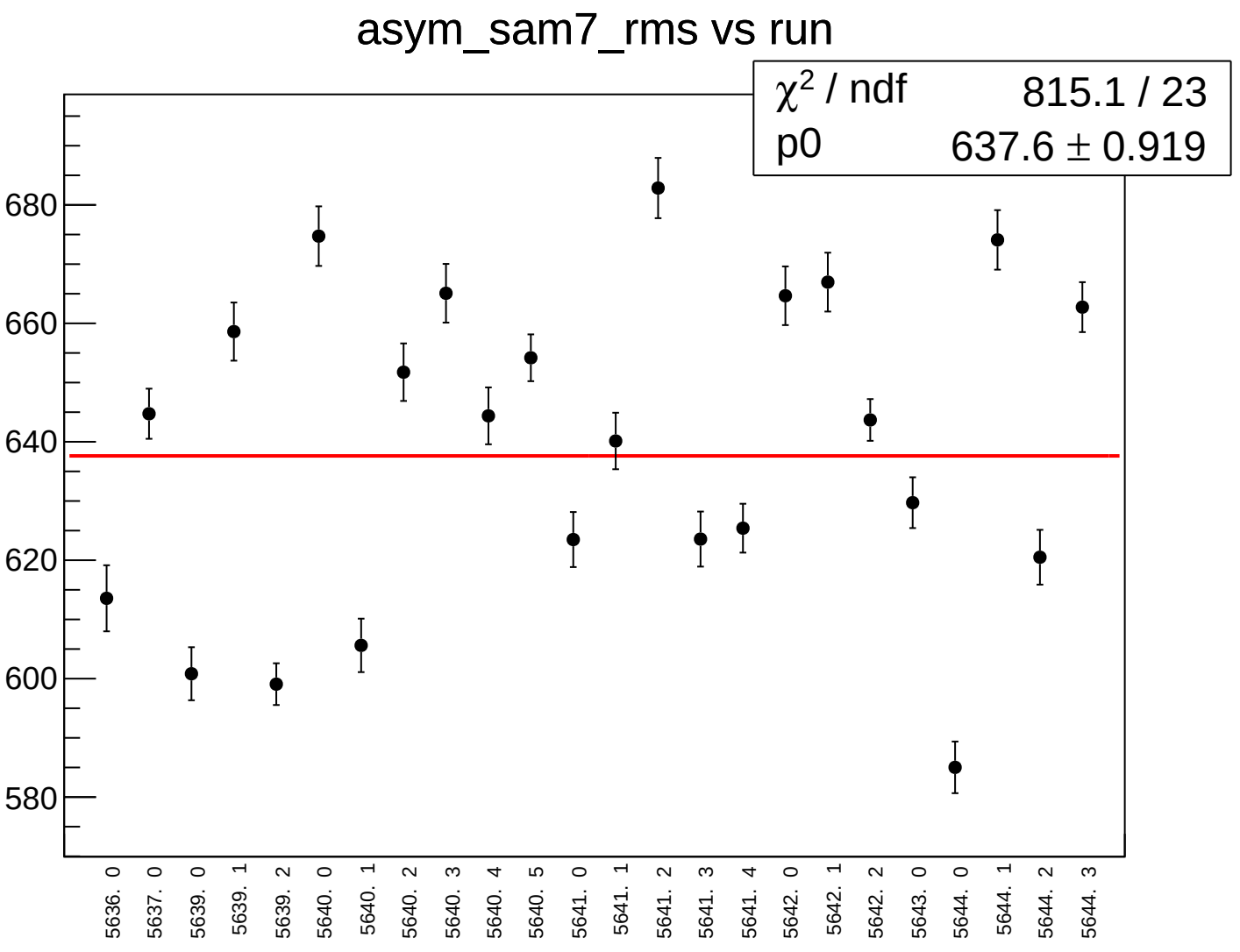

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 24.15 / 23
p0 −589.2 ± 1298
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 31.94
Std Dev 22.49
2
1.5
1
0.5
0
−0.5
−1
−1.5

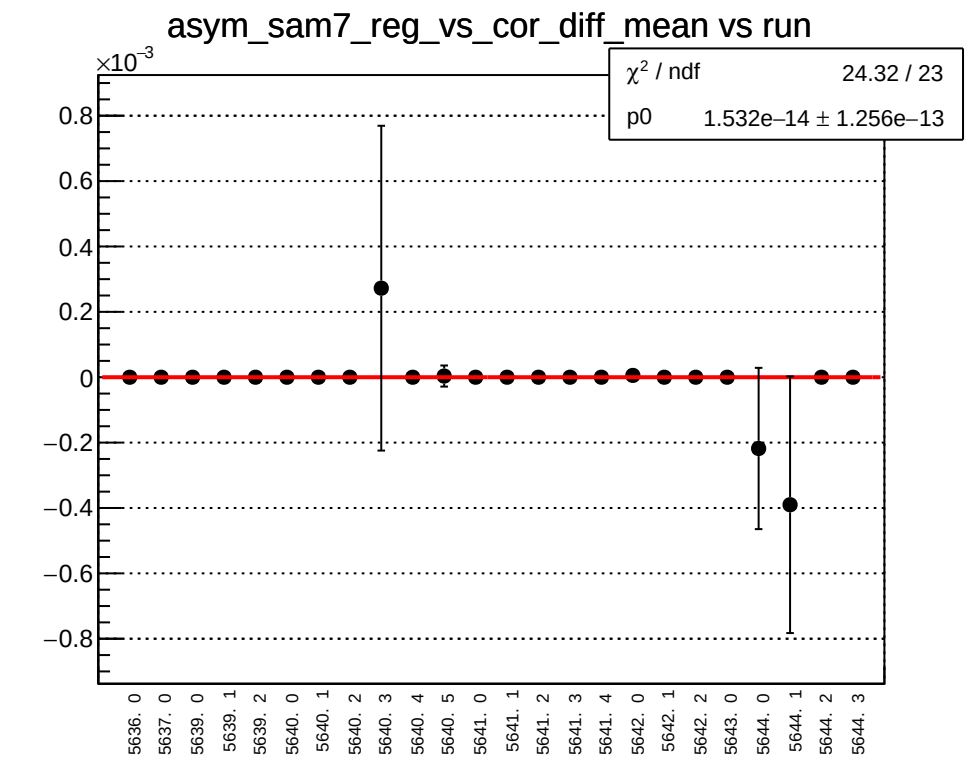

pull1D
Entries 24
Mean 0.02191
Std Dev 1.003
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

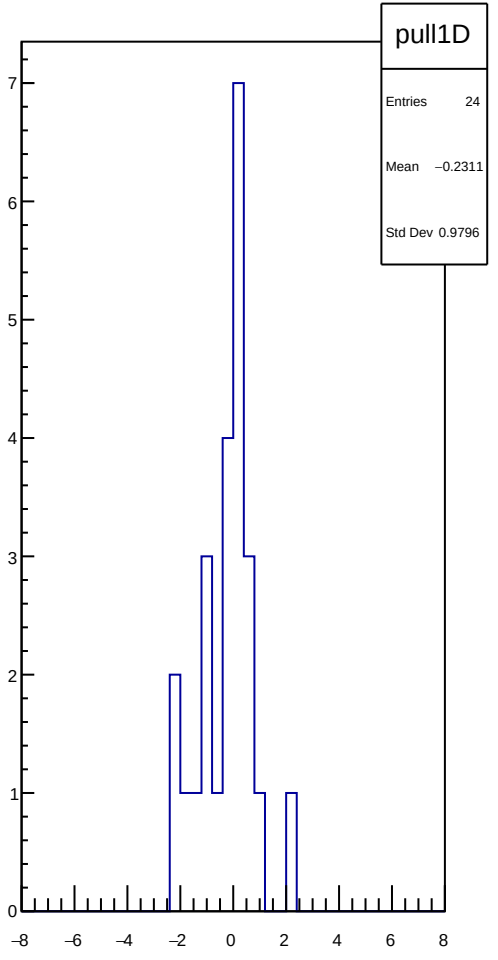

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 797.5 / 23
p0 636.9 ± 0.918
700
680
660
640
620
600
580
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

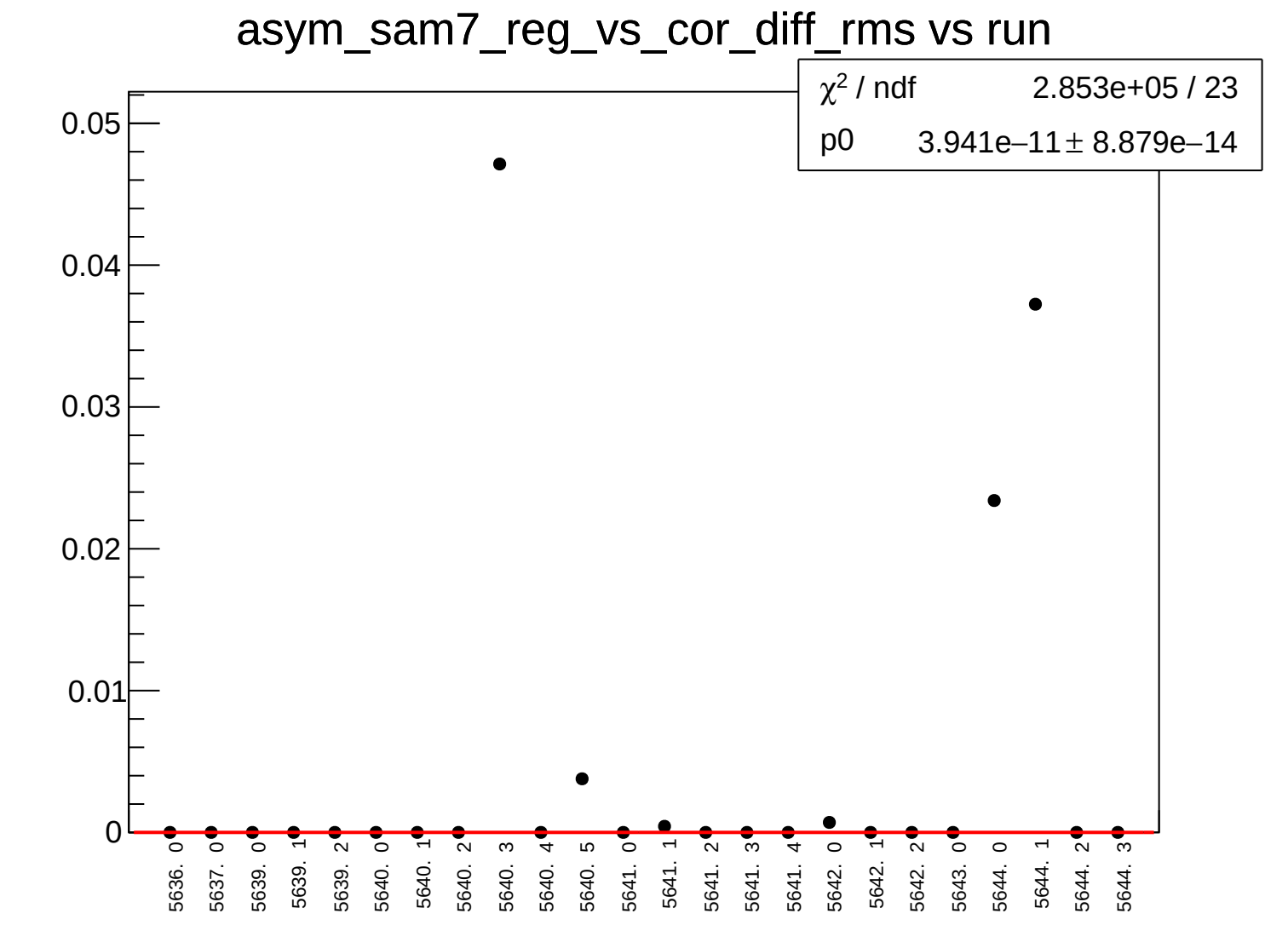

asym_sam7_mean vs run
χ² / ndf 24.02 / 23
p0 571.3 ± 1300
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 37.48
Std Dev 15.69
1.5
1
0.5
0
−0.5
−1
−1.5

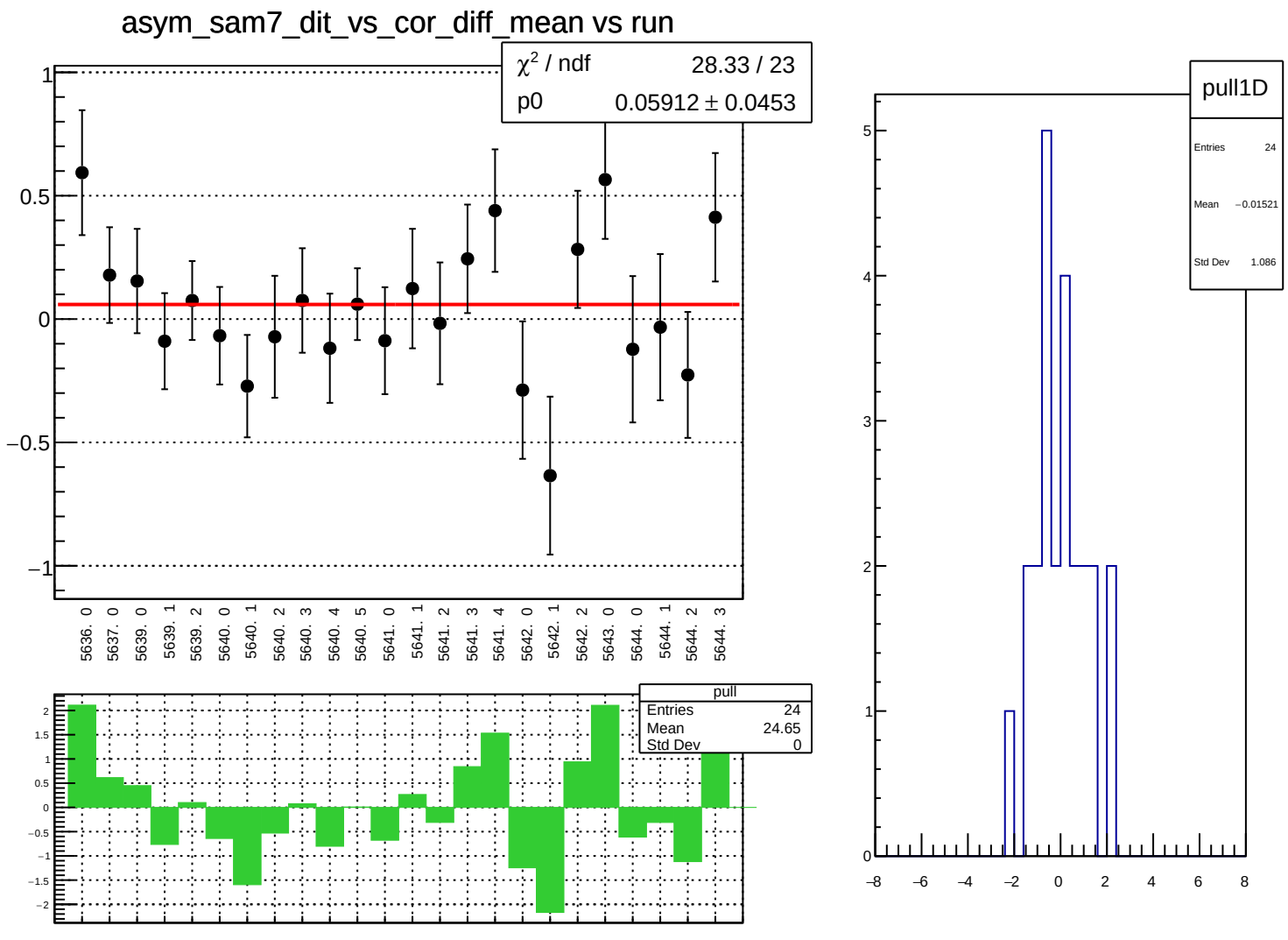

pull1D
Entries 24
Mean −0.02254
Std Dev 1
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

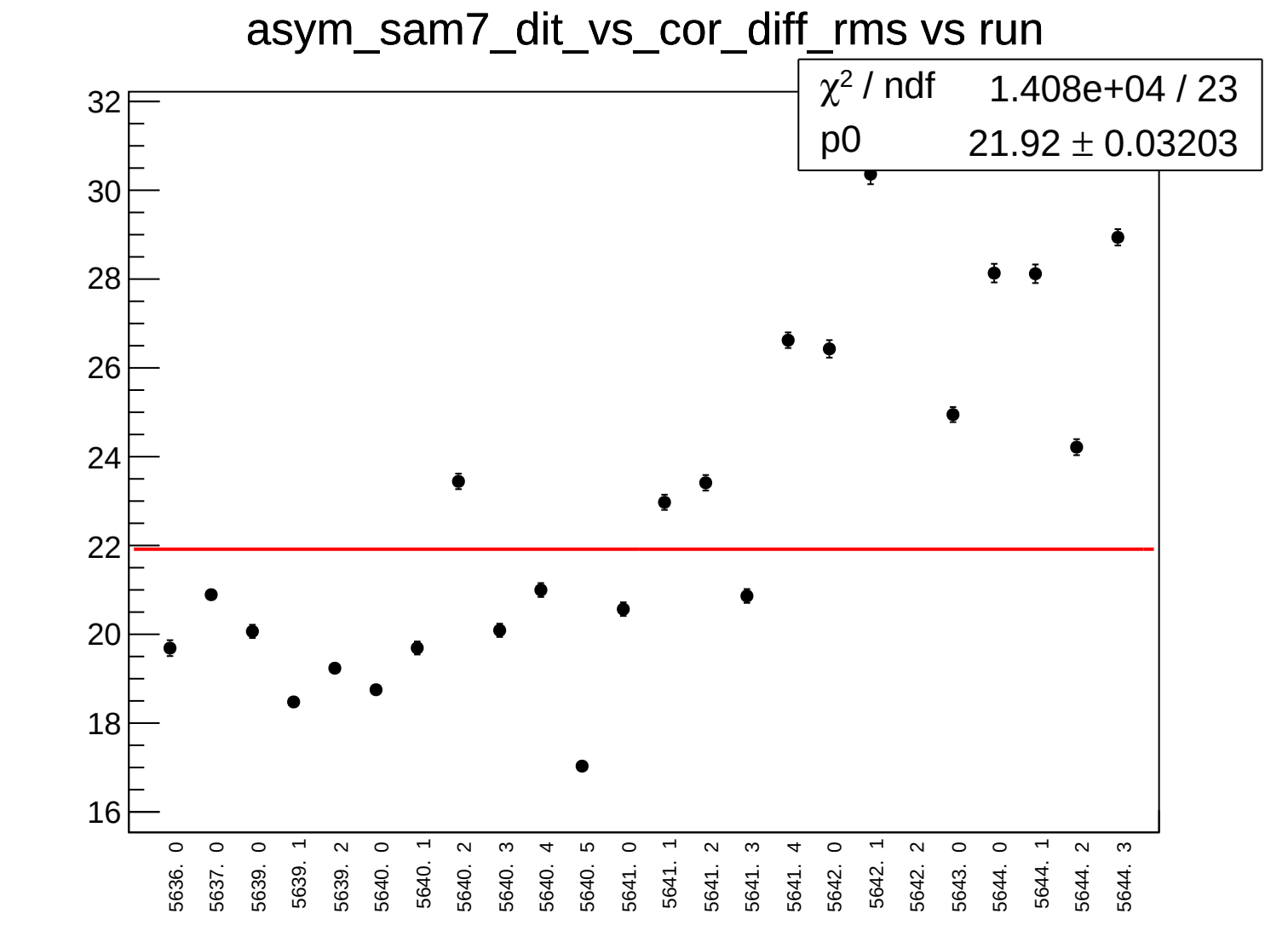

asym_sam7_rms vs run
χ² / ndf 815.1 / 23
p0 637.6 ± 0.919
680
660
640
620
600
580
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

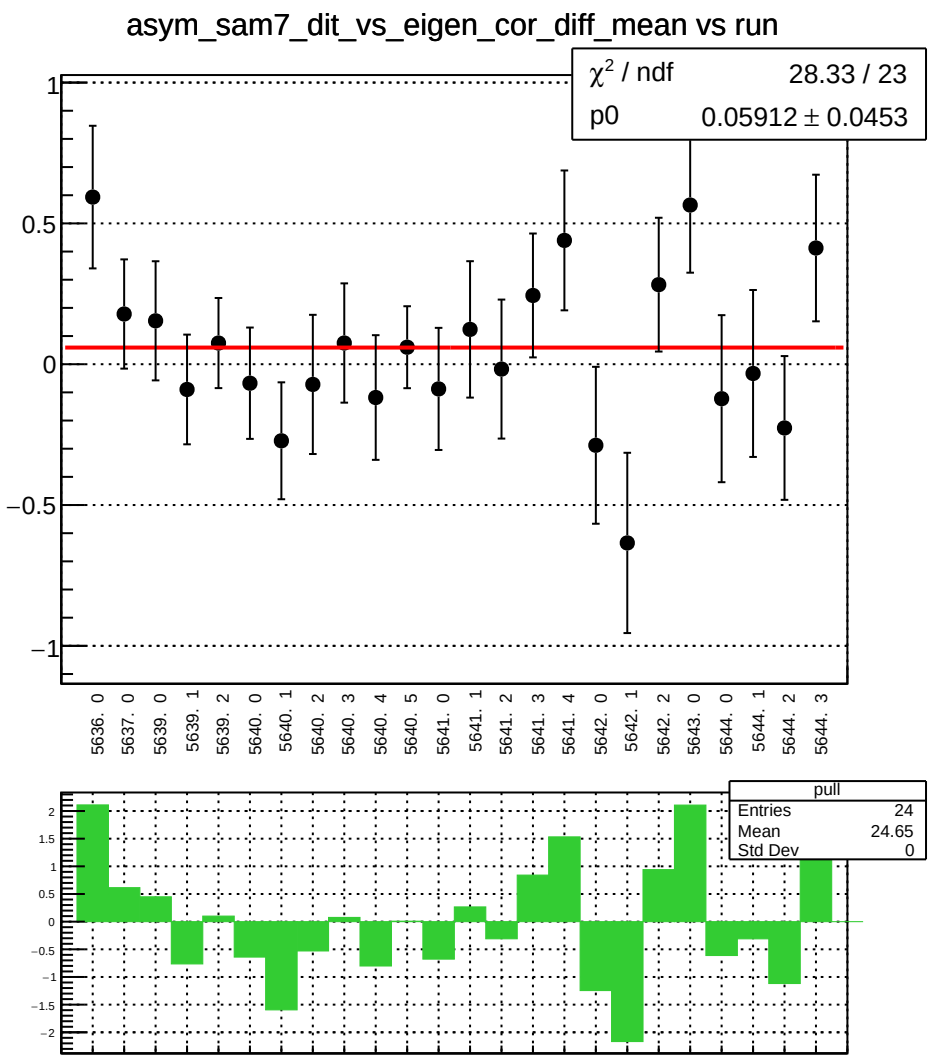

asym_sam7_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 24.32 / 23
p0 1.532e−14 ± 1.256e−13
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 6.552
Std Dev 6.641
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

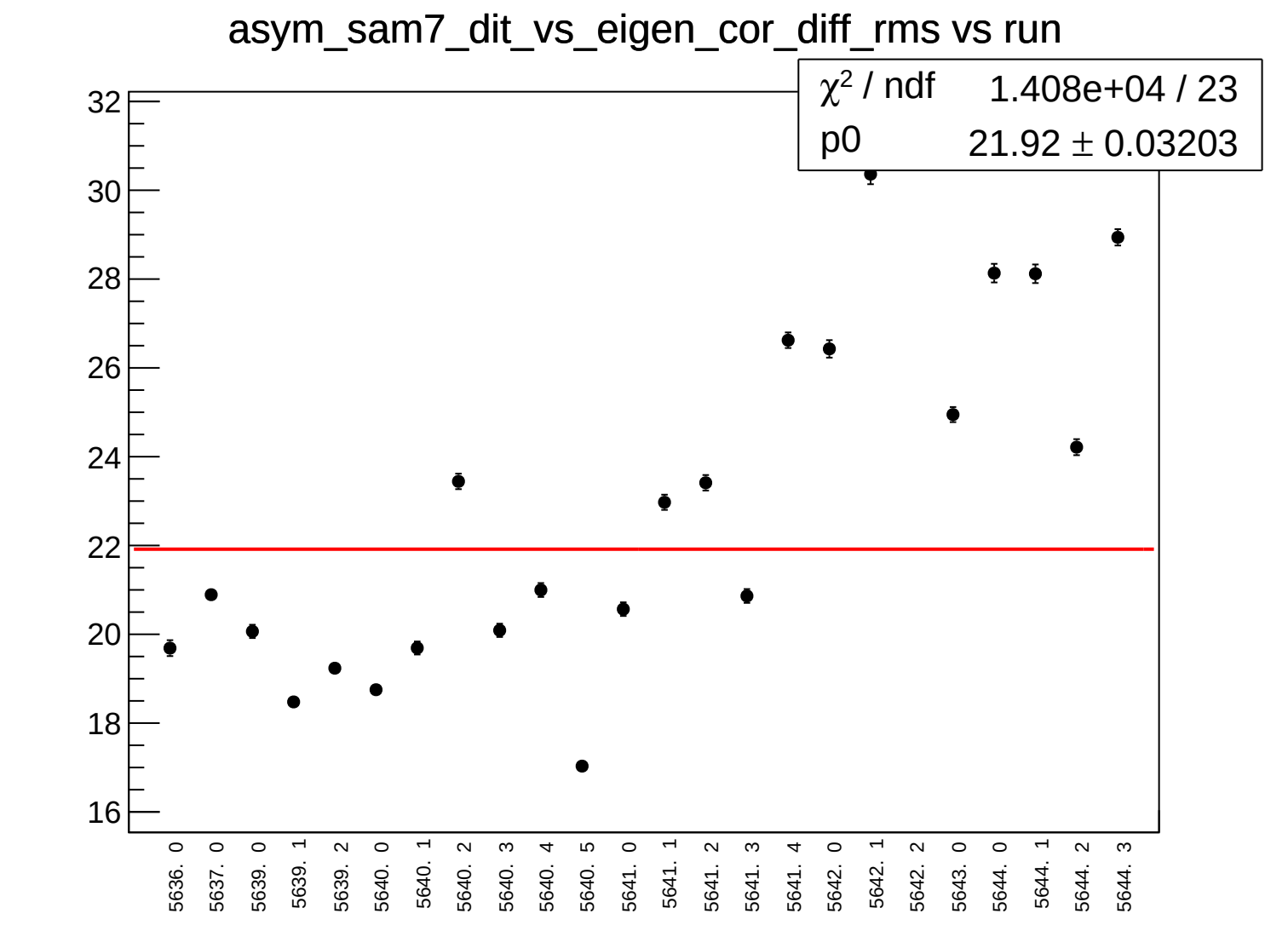

pull1D
Entries 24
Mean −0.2311
Std Dev 0.9796
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

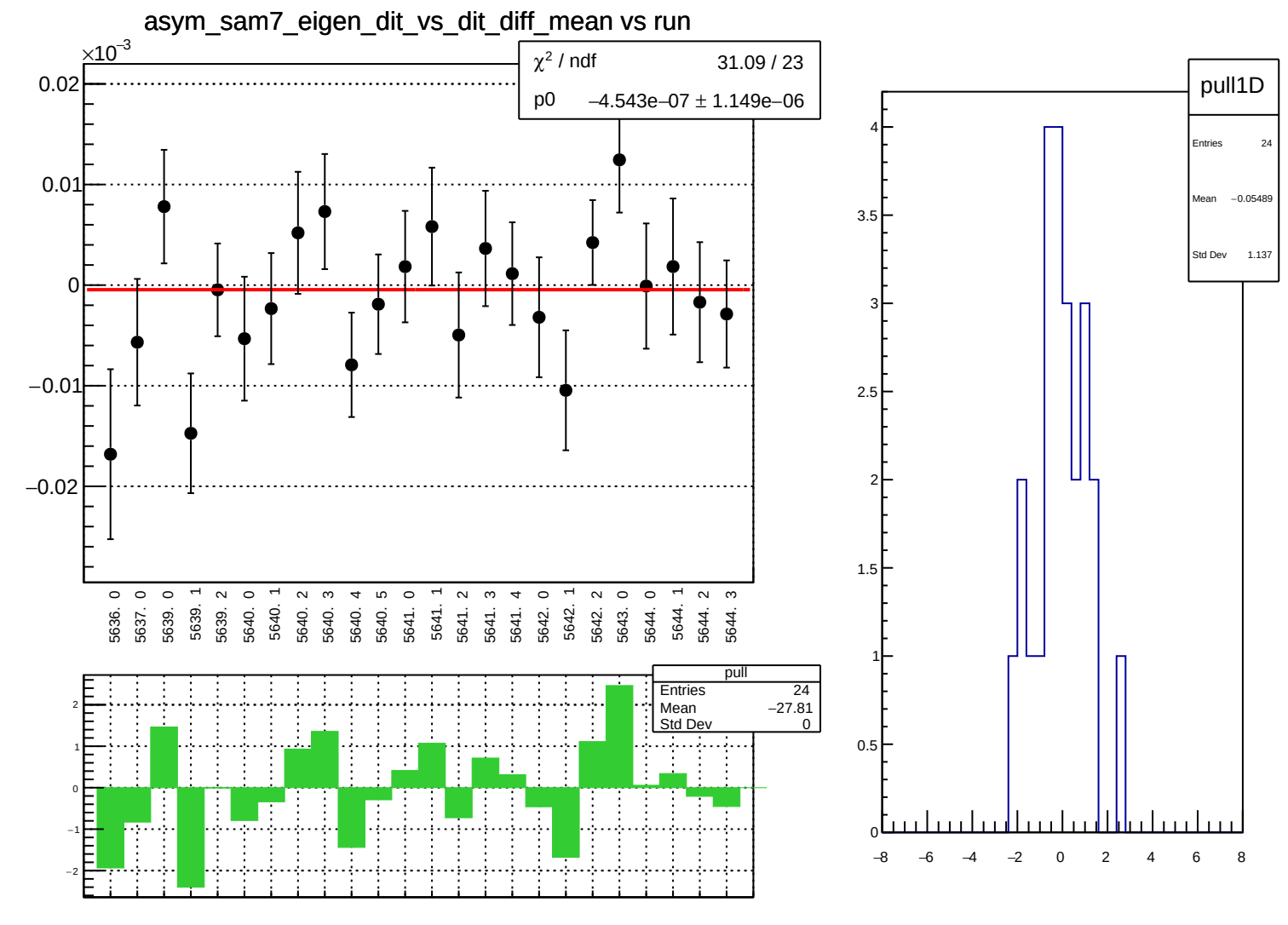

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 2.853e+05 / 23
p0 3.941e−11 ± 8.879e−14
0.05
0.04
0.03
0.02
0.01
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

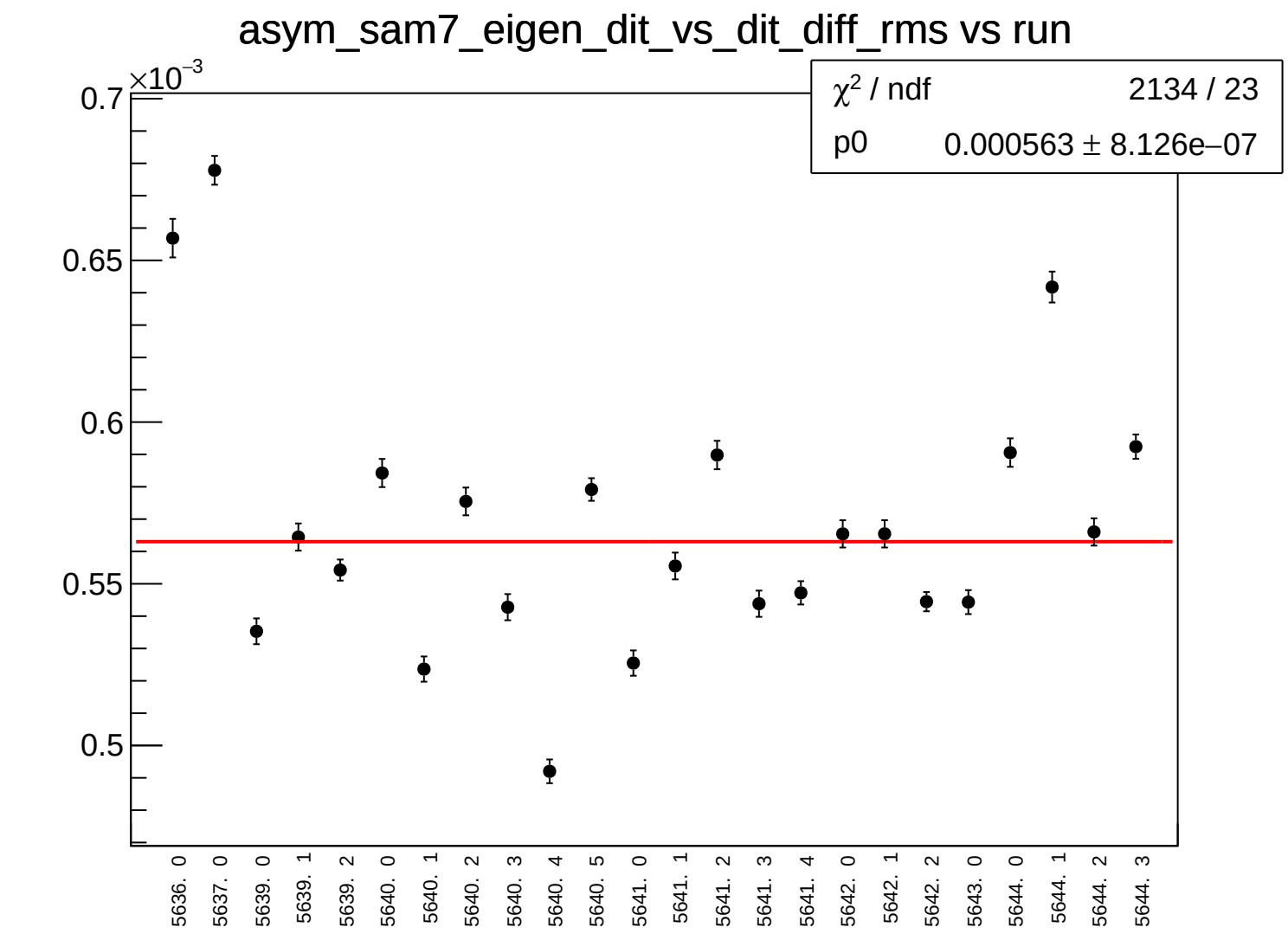

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 28.33 / 23
p0 0.05912 ± 0.0453
1
0.5
0
−0.5
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 24.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.01521
Std Dev 1.086
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 1.408e+04 / 23
p0 21.92 ± 0.03203
32
30
28
26
24
22
20
18
16
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 28.33 / 23
p0 0.05912 ± 0.0453
1
0.5
0
−0.5
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 24.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.01521
Std Dev 1.086
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.408e+04 / 23
p0 21.92 ± 0.03203
32
30
28
26
24
22
20
18
16
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 31.09 / 23
p0 −4.543e−07 ± 1.149e−06
0.02
0.01
0
−0.01
−0.02
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −27.81
Std Dev 0
pull1D
Entries 24
Mean −0.05489
Std Dev 1.137


asym_sam7_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 2134 / 23
p0 0.000563 ± 8.126e−07
0.7
0.65
0.6
0.55
0.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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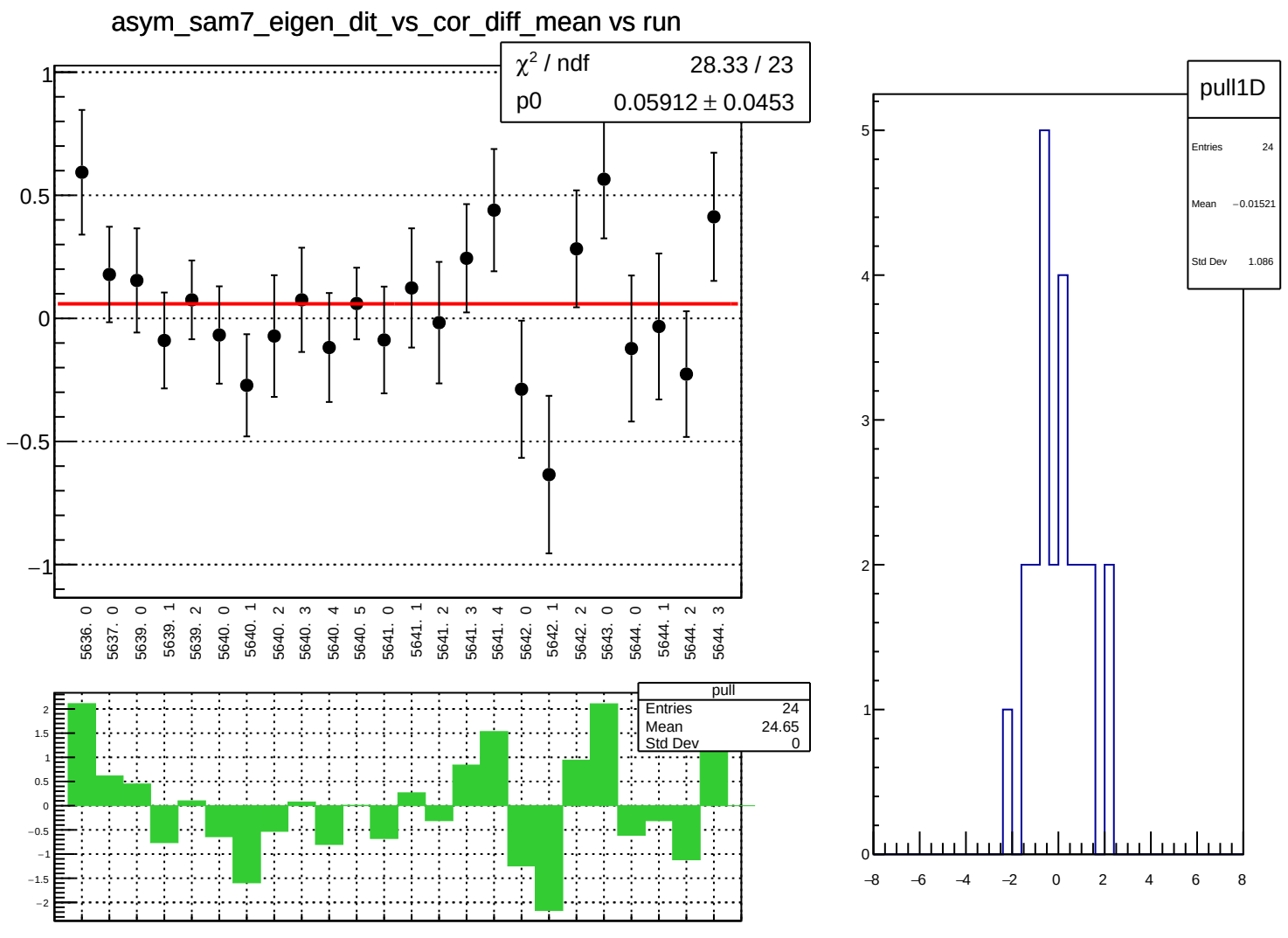
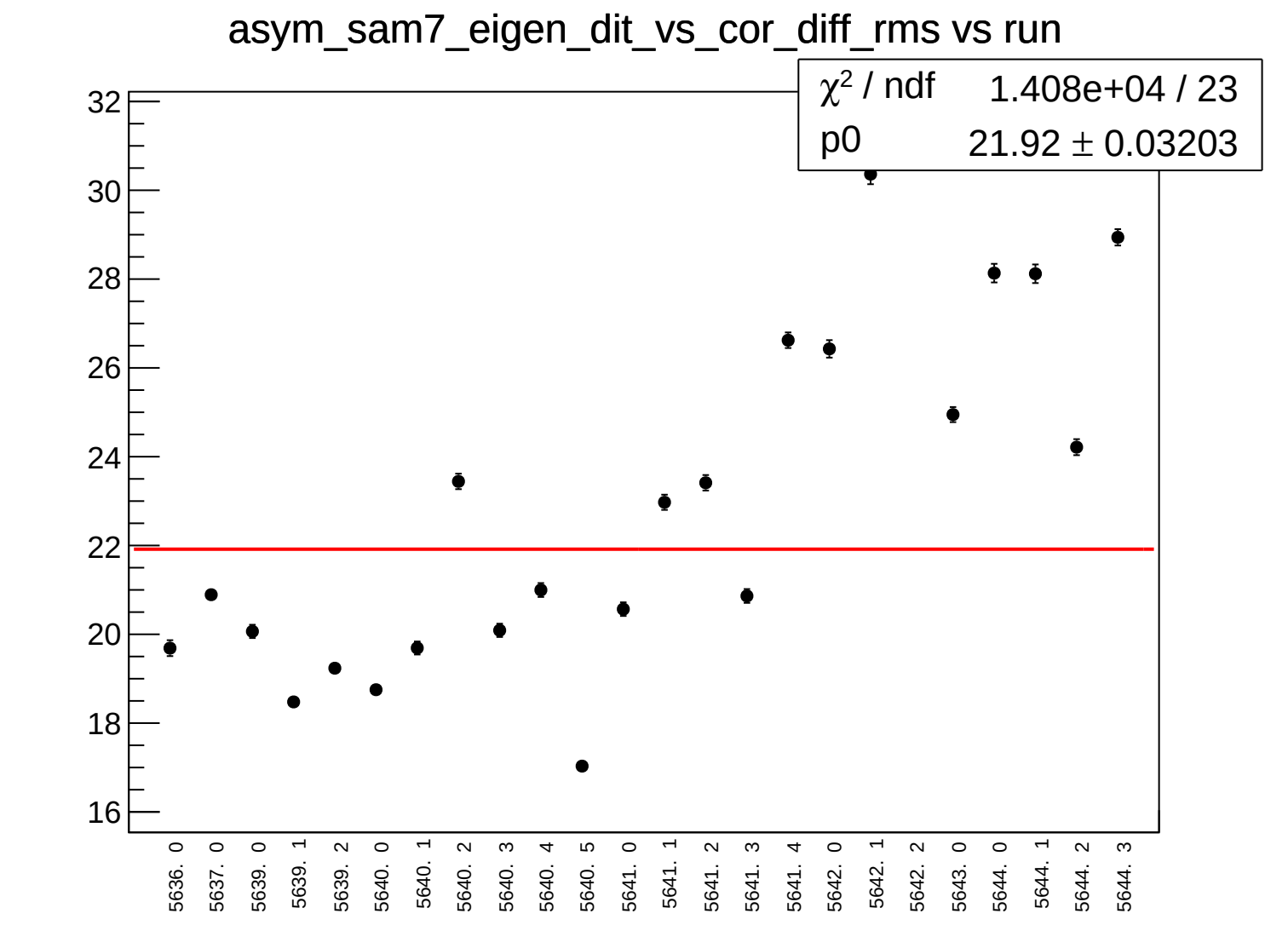
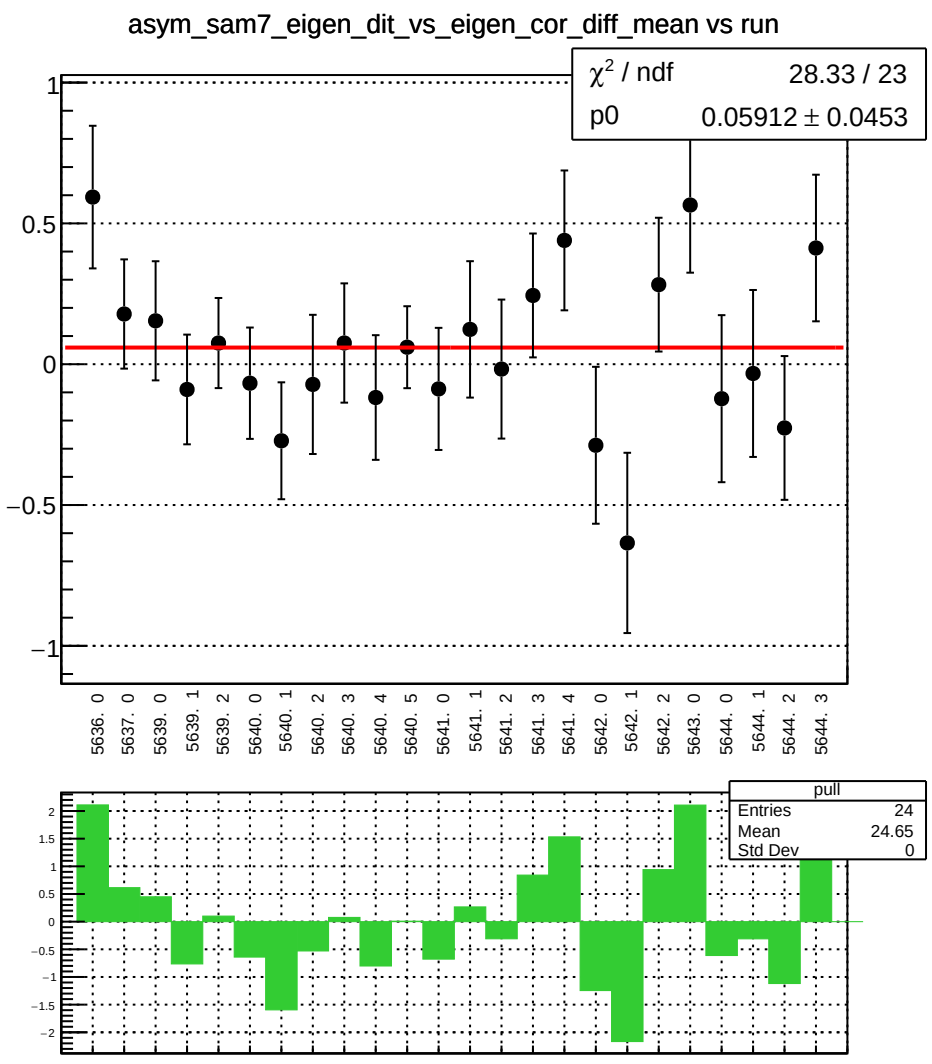
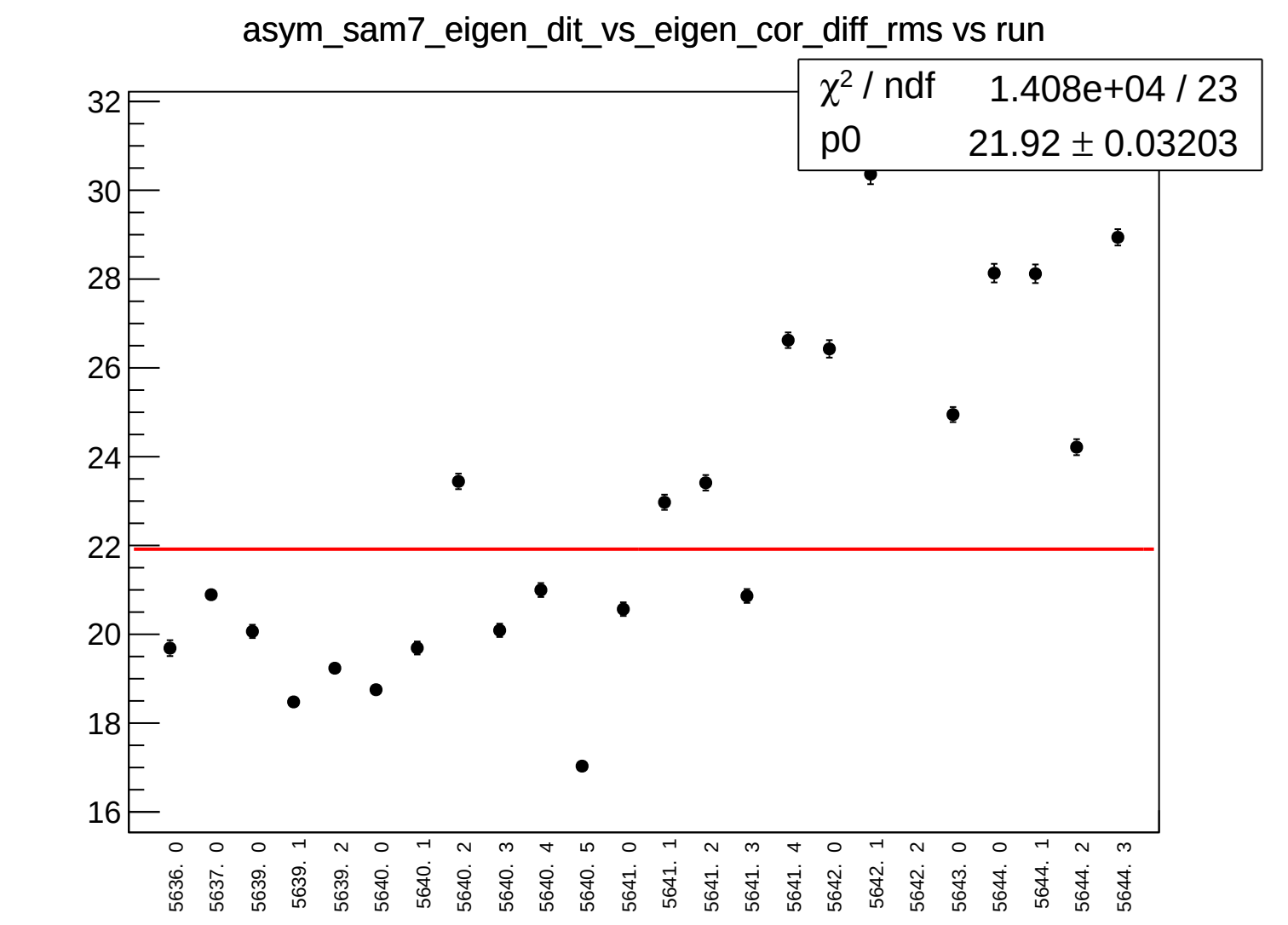
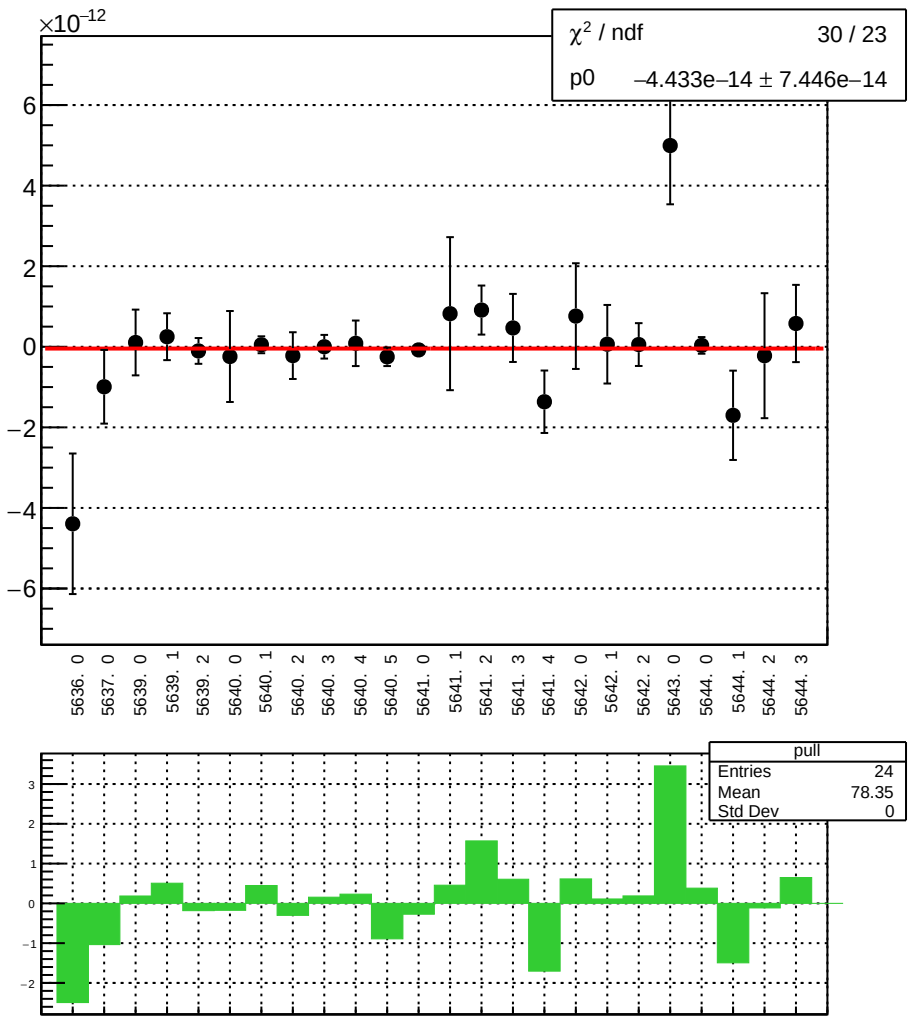
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

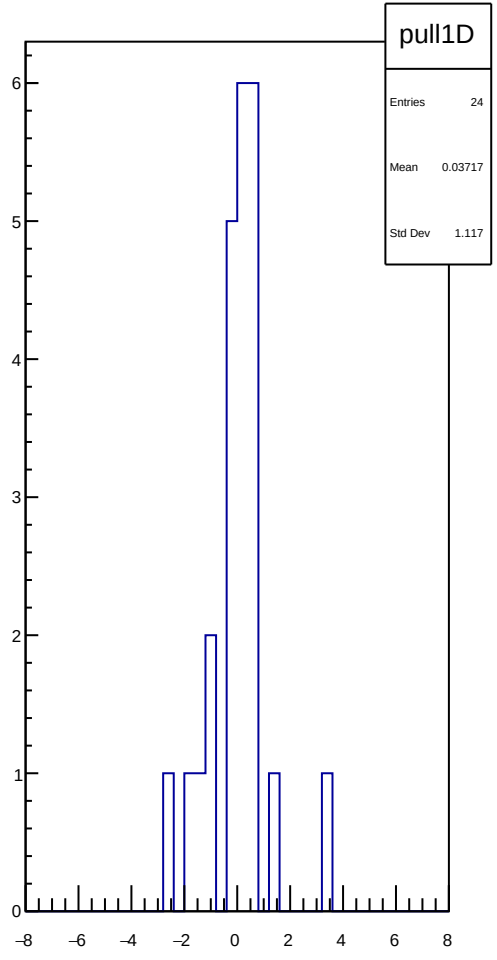

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 28.33 / 23
p0 0.05912 ± 0.0453
1
0.5
0
−0.5
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 24.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.01521
Std Dev 1.086
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

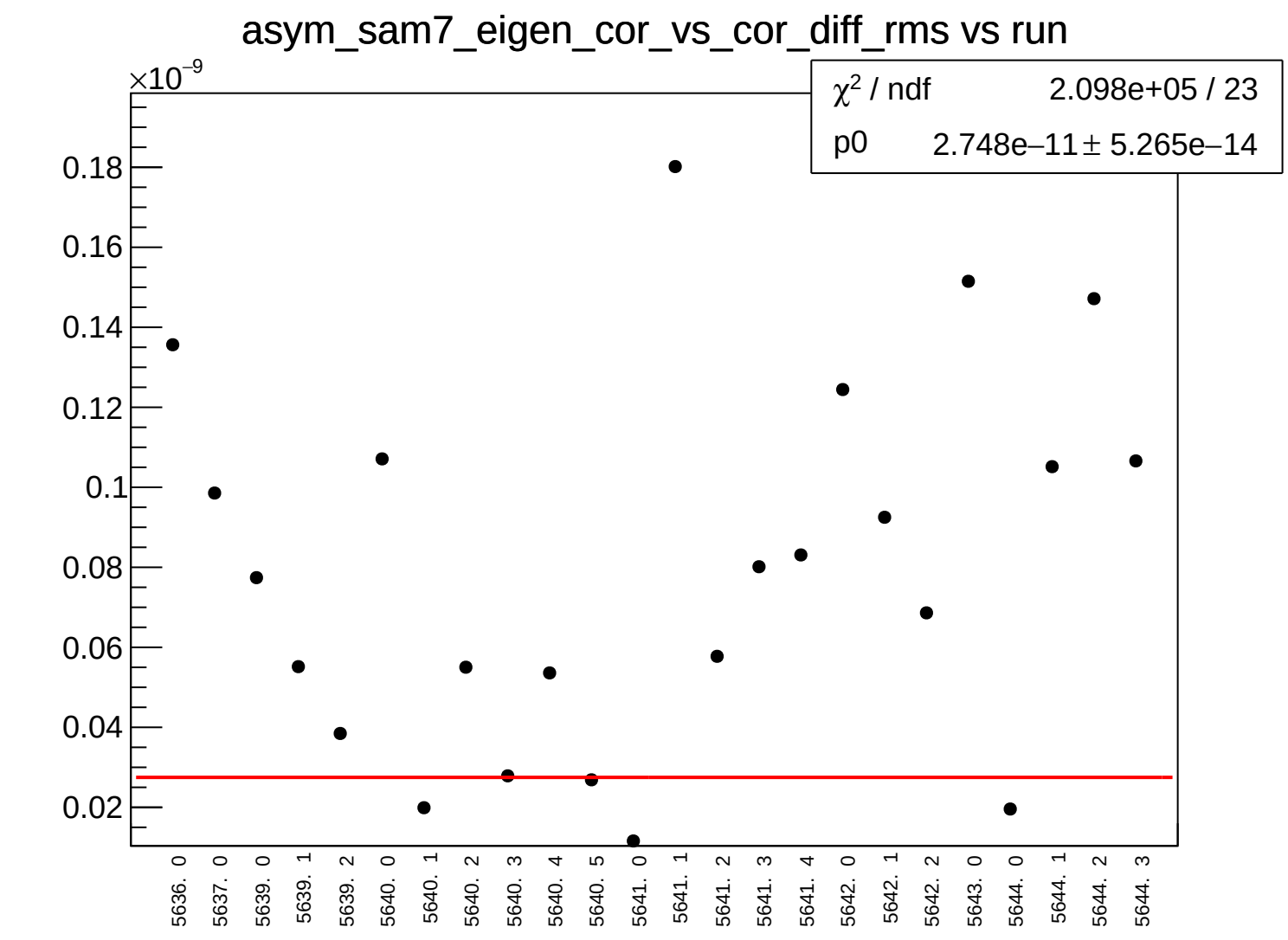

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.408e+04 / 23
p0 21.92 ± 0.03203
32
30
28
26
24
22
20
18
16
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

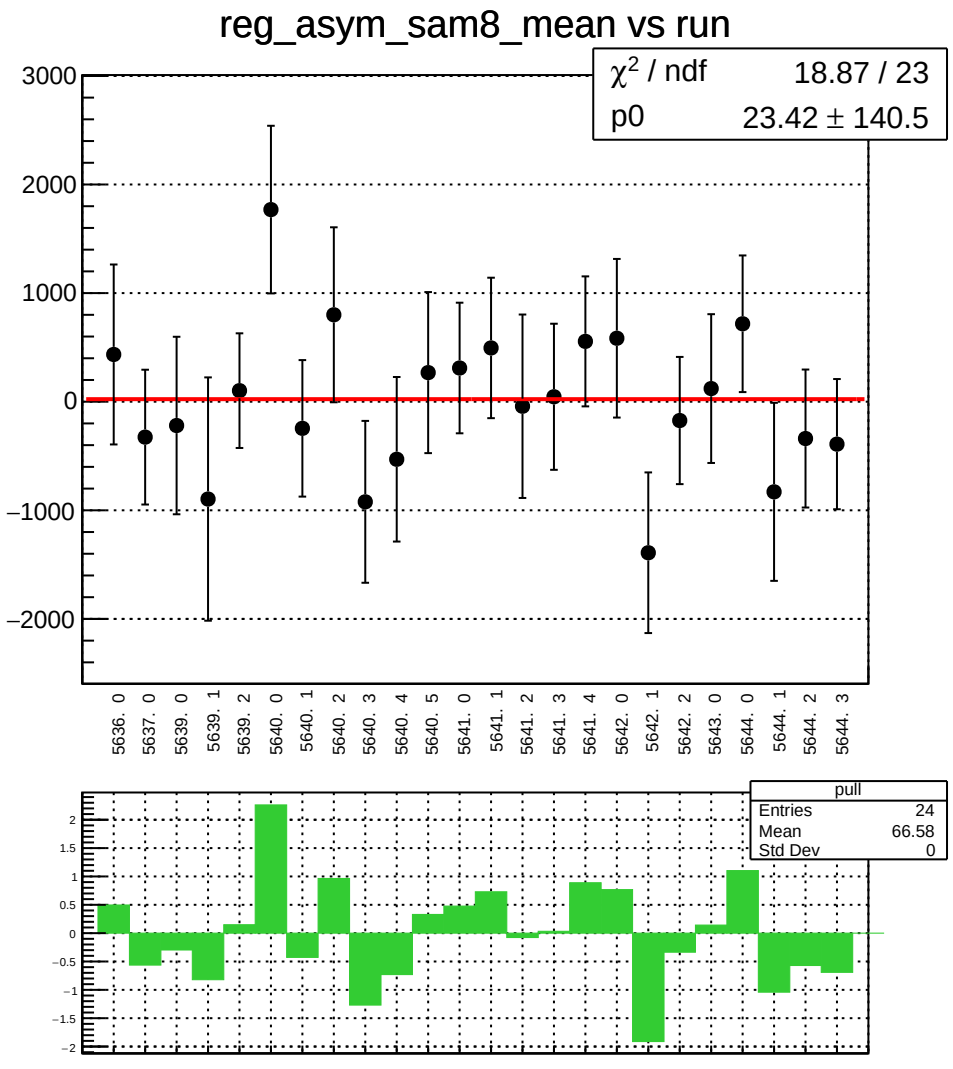

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 28.33 / 23
p0 0.05912 ± 0.0453
1
0.5
0
−0.5
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 24.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.01521
Std Dev 1.086
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

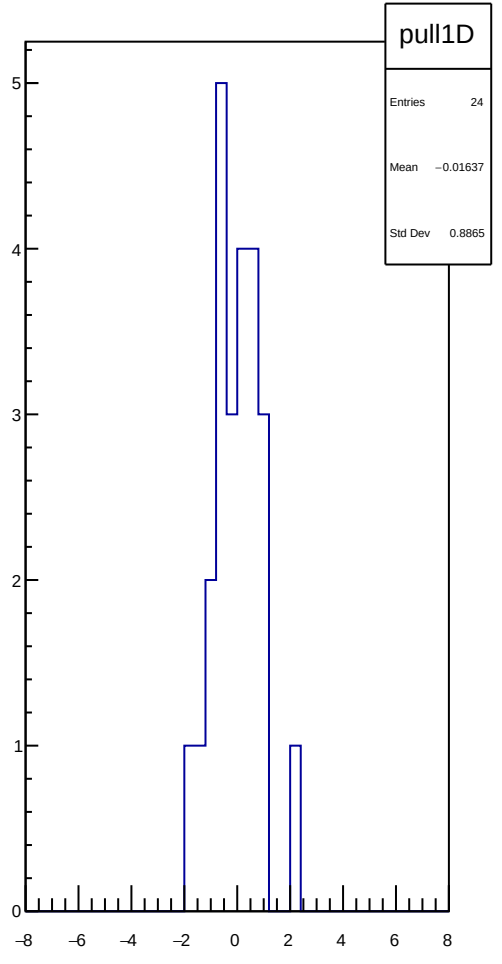

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.408e+04 / 23
p0 21.92 ± 0.03203
32
30
28
26
24
22
20
18
16
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

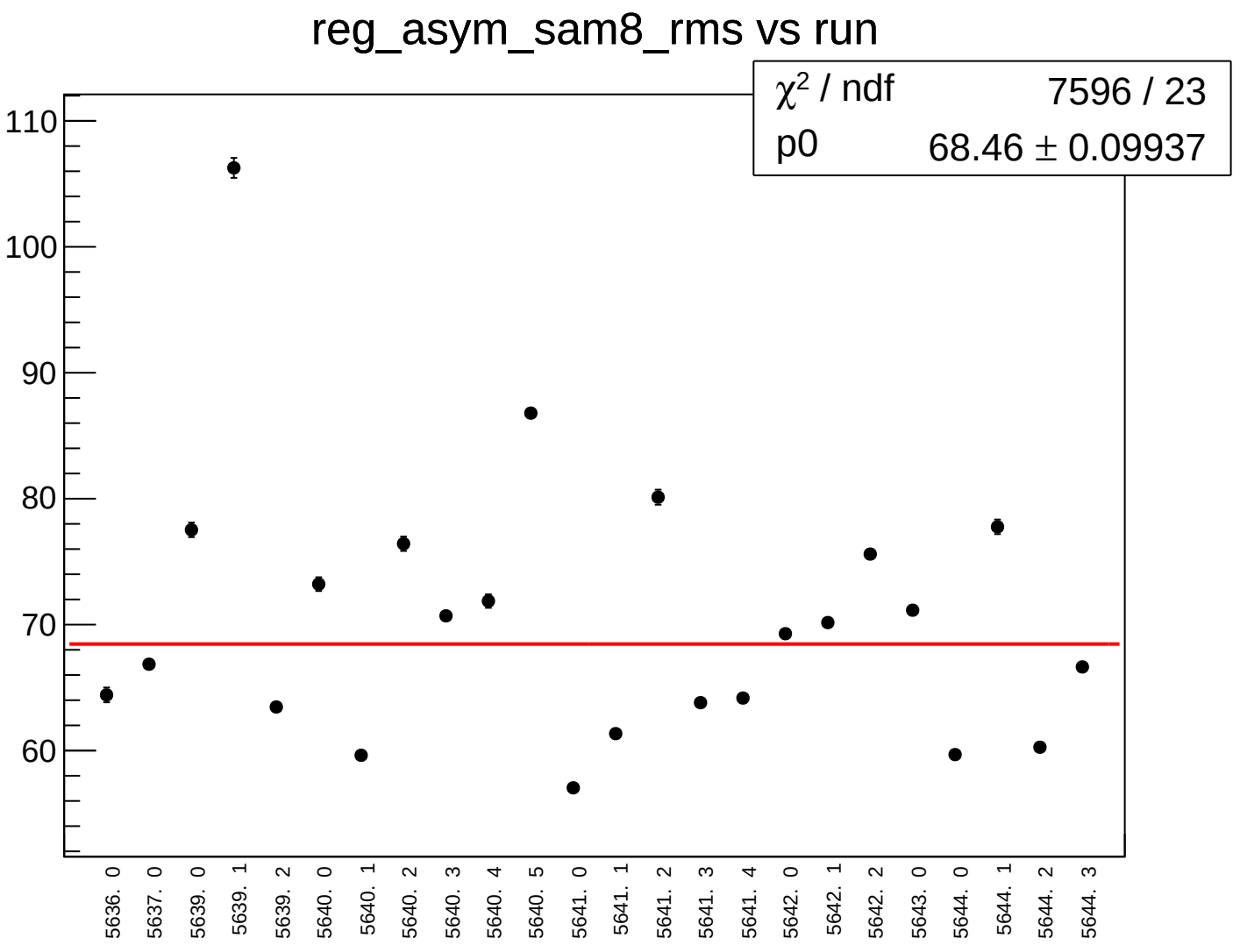

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 30 / 23
p0 −4.433e−14 ± 7.446e−14
6
4
2
0
−2
−4
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 78.35
Std Dev 0
3
2
1
0
−1
−2

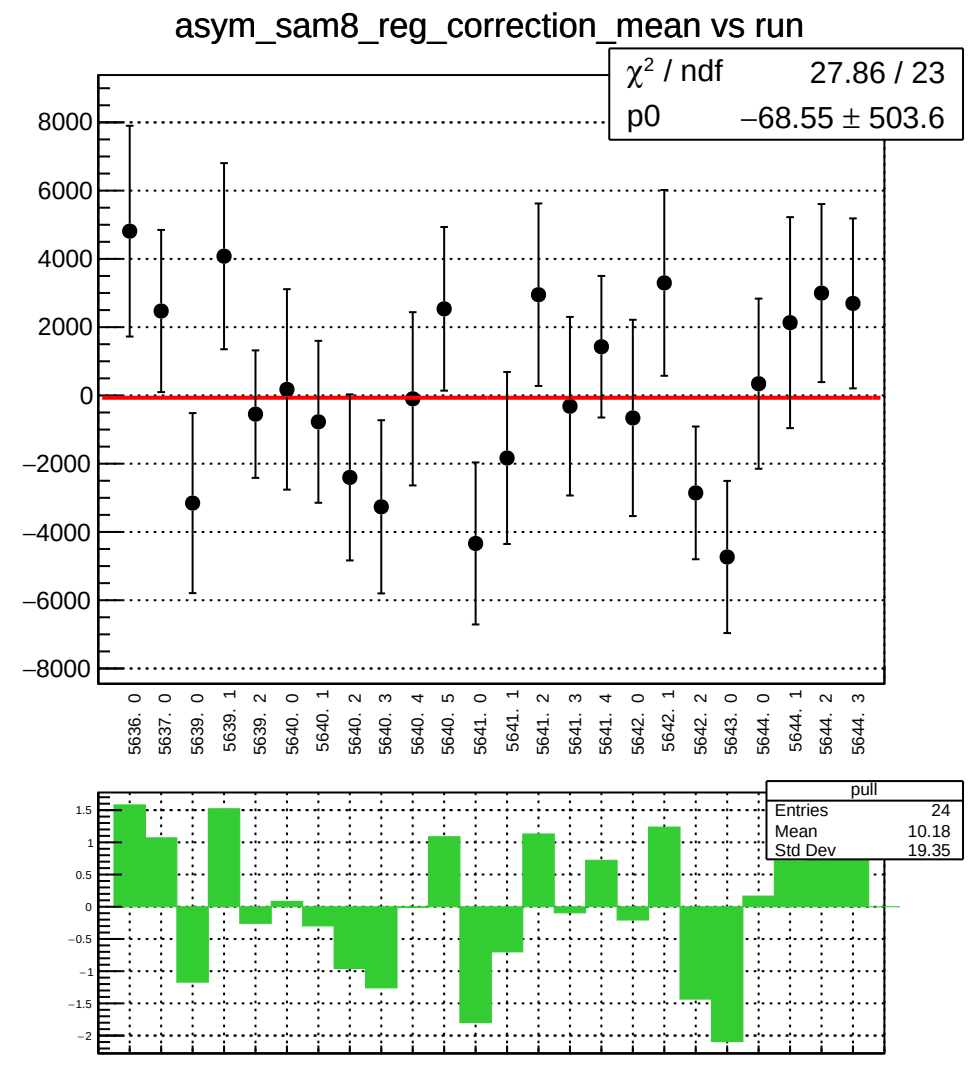

pull1D
Entries 24
Mean 0.03717
Std Dev 1.117
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

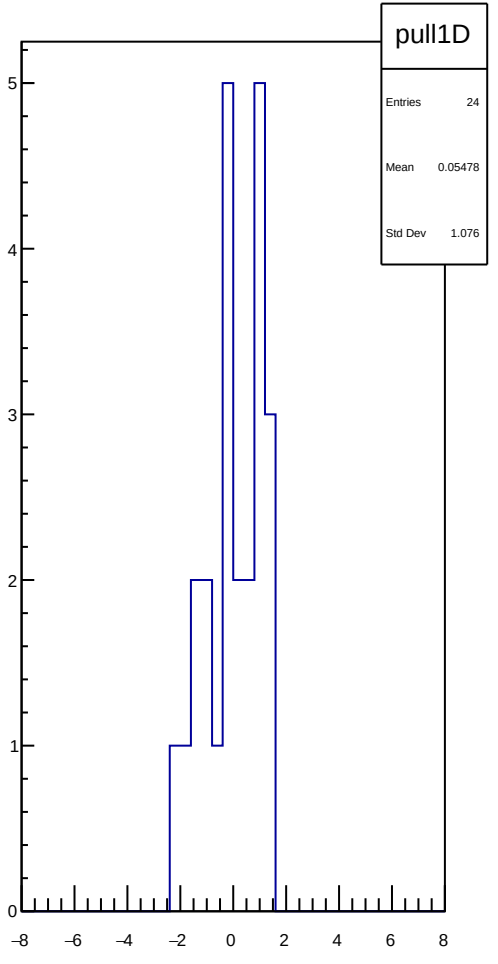

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.098e+05 / 23
p0 2.748e−11 ± 5.265e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

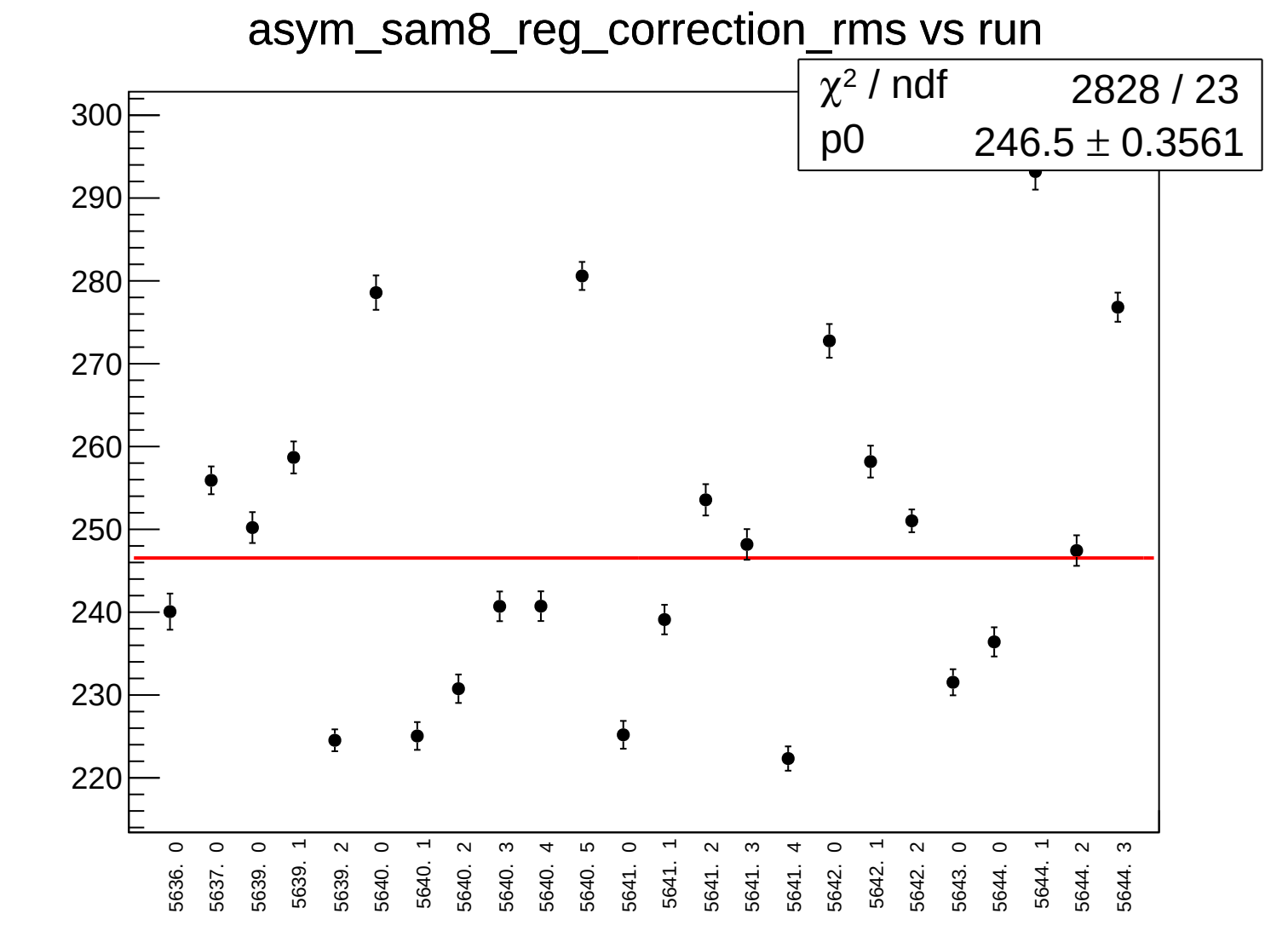

reg_asym_sam8_mean vs run
χ² / ndf 18.87 / 23
p0 23.42 ± 140.5
3000
2000
1000
0
−1000
−2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 66.58
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

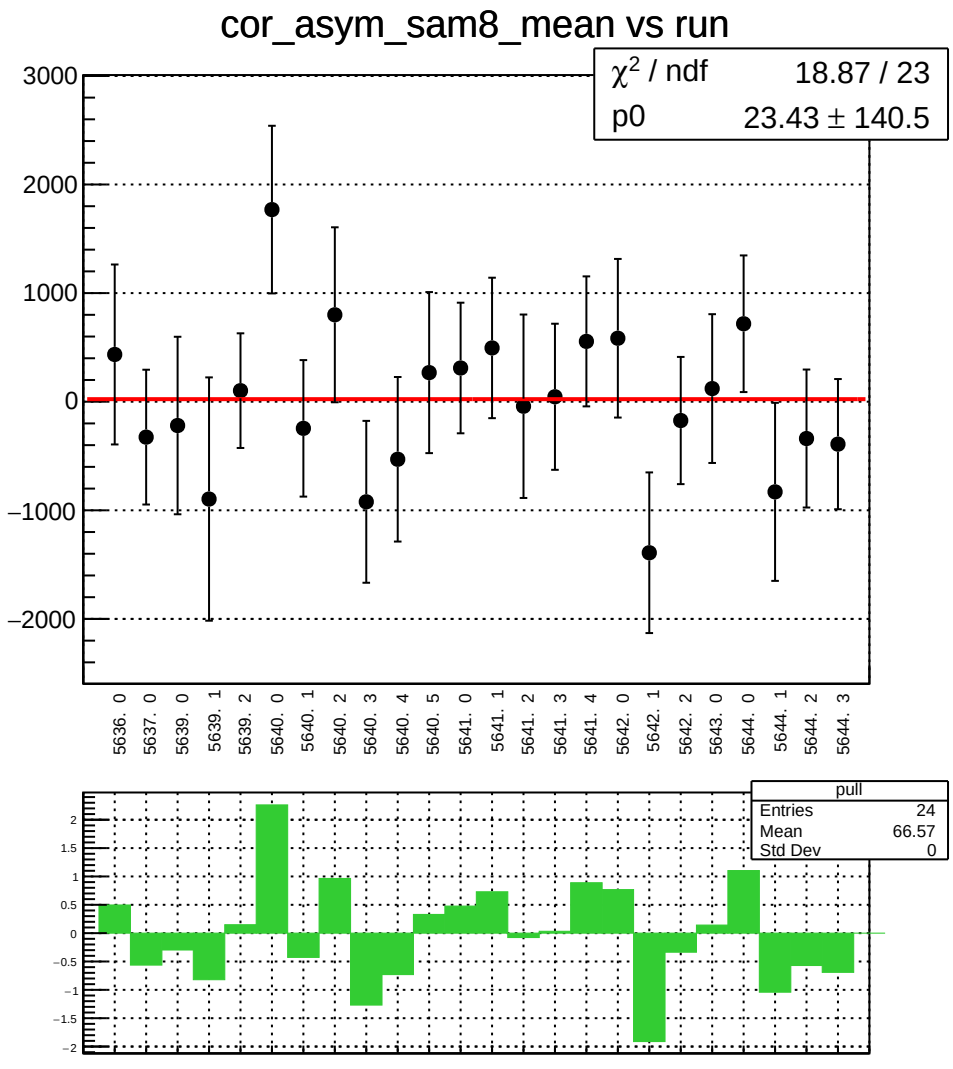

pull1D
Entries 24
Mean −0.01637
Std Dev 0.8865
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

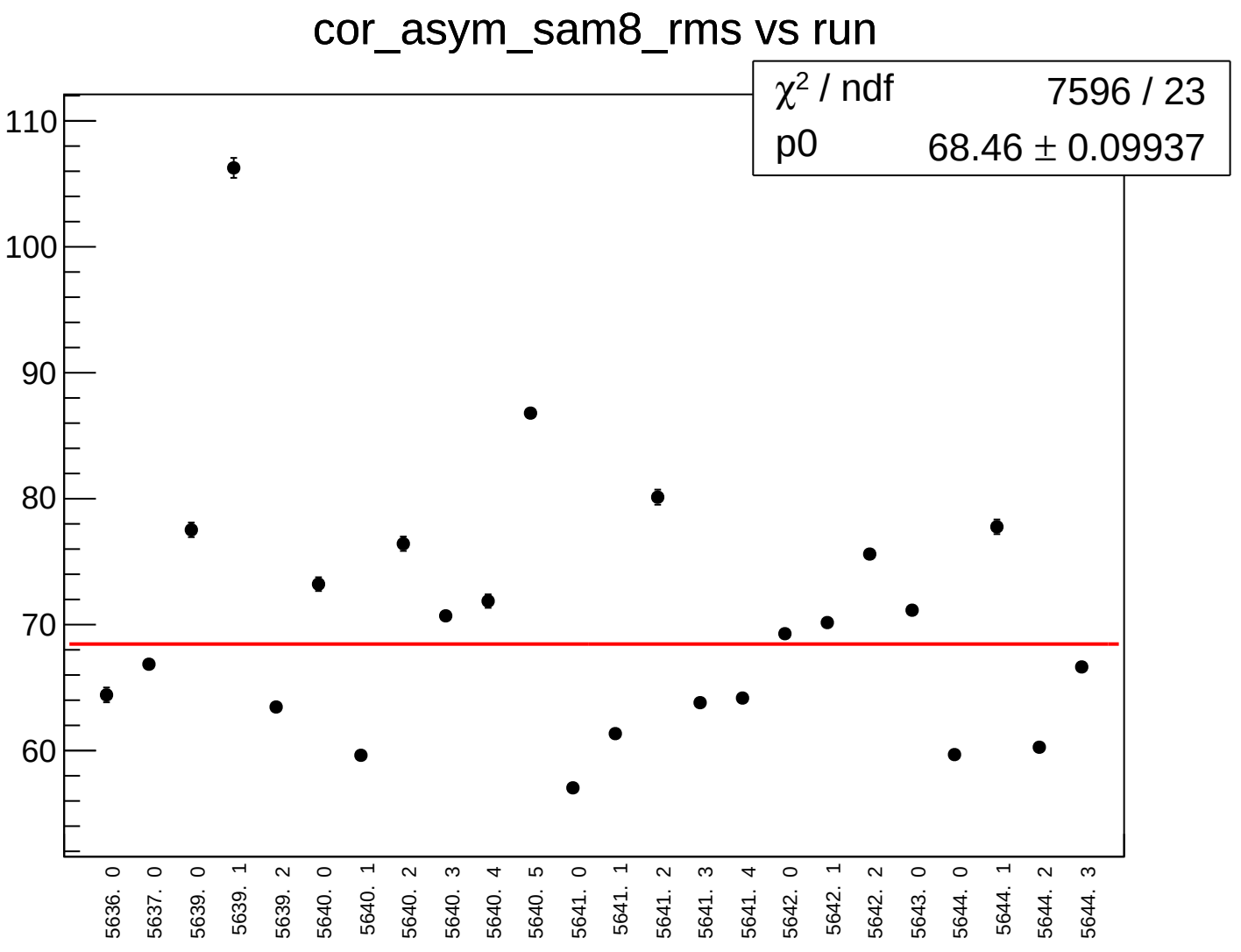

reg_asym_sam8_rms vs run
χ² / ndf 7596 / 23
p0 68.46 ± 0.09937
110
100
90
80
70
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

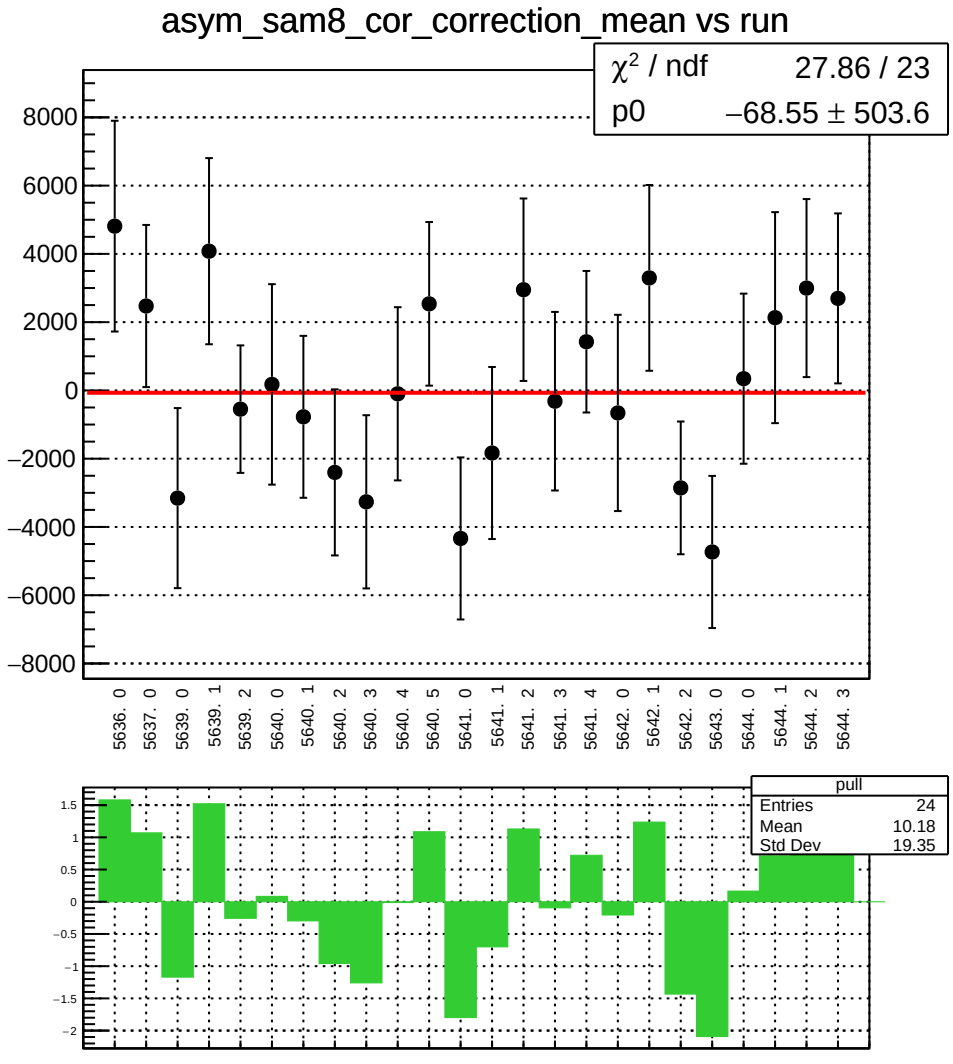

asym_sam8_reg_correction_mean vs run
χ² / ndf 27.86 / 23
p0 −68.55 ± 503.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 10.18
Std Dev 19.35
1.5
1
0.5
0
−0.5
−1
−1.5
−2

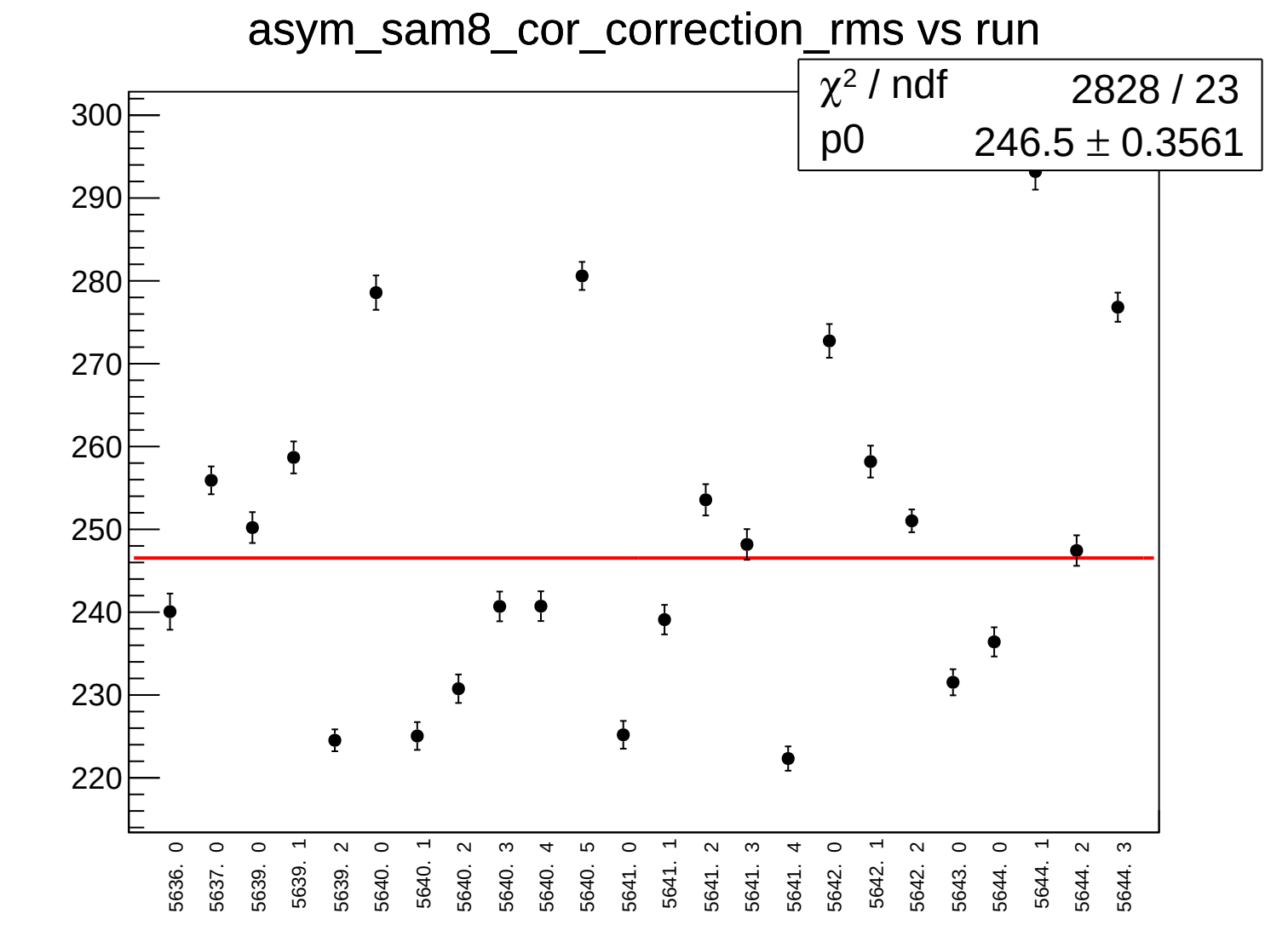

pull1D
Entries 24
Mean 0.05478
Std Dev 1.076
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

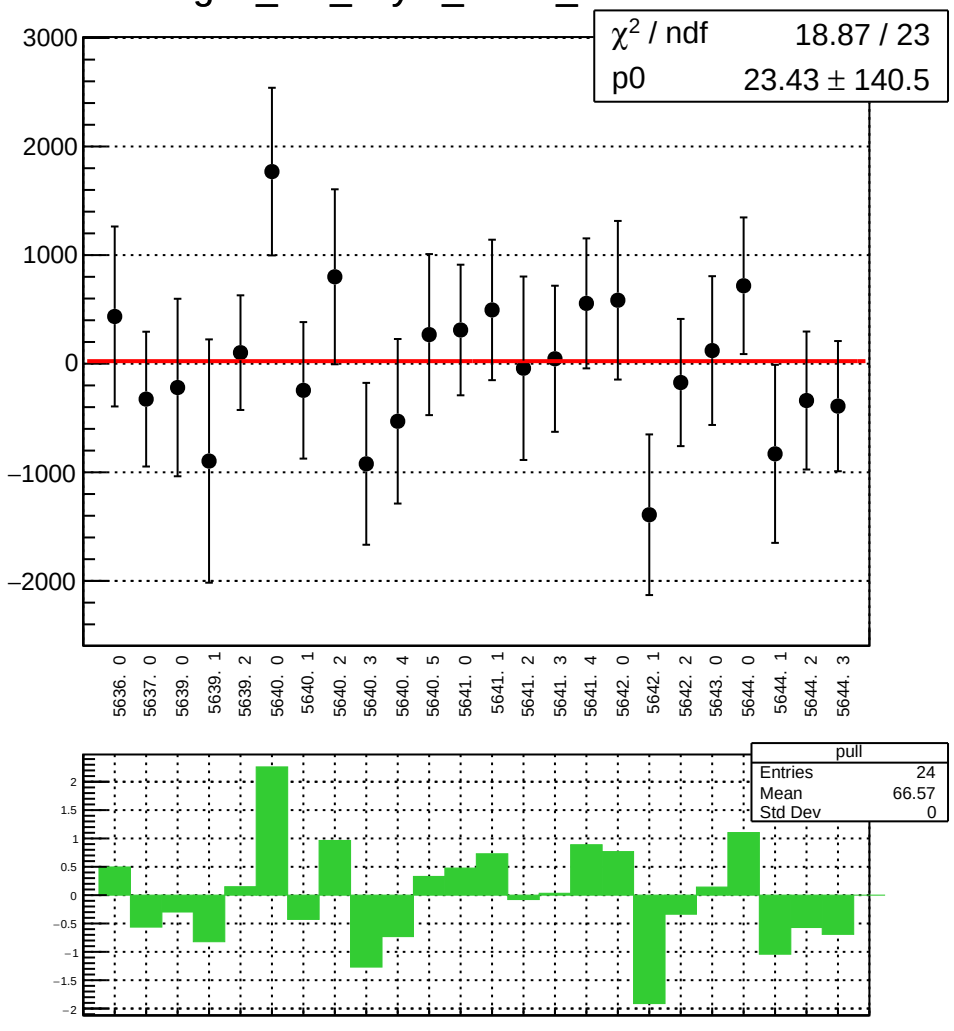

asym_sam8_reg_correction_rms vs run
χ² / ndf 2828 / 23
p0 246.5 ± 0.3561
300
290
280
270
260
250
240
230
220
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

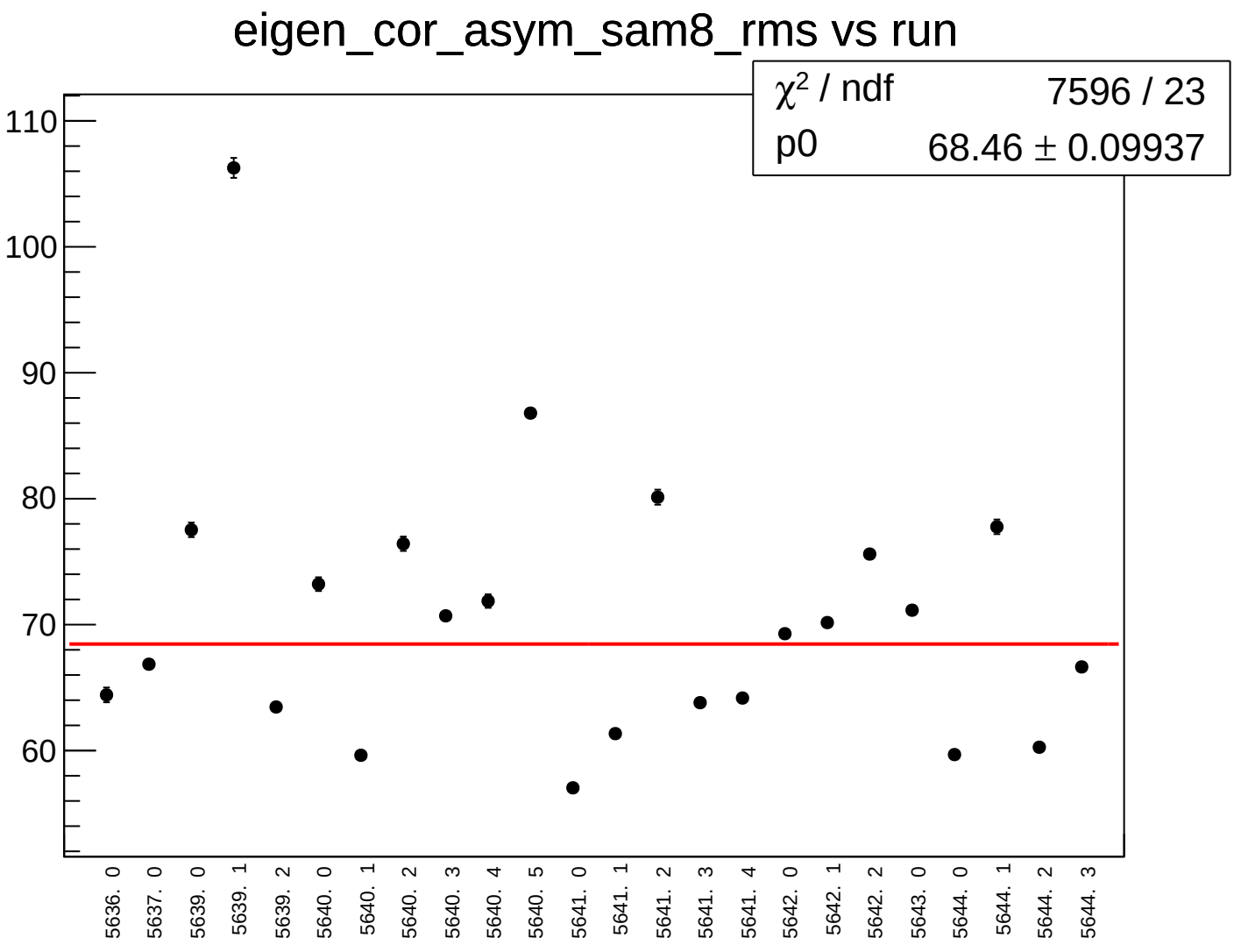

cor_asym_sam8_mean vs run
χ² / ndf 18.87 / 23
p0 23.43 ± 140.5
3000
2000
1000
0
−1000
−2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 66.57
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.01637
Std Dev 0.8865
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

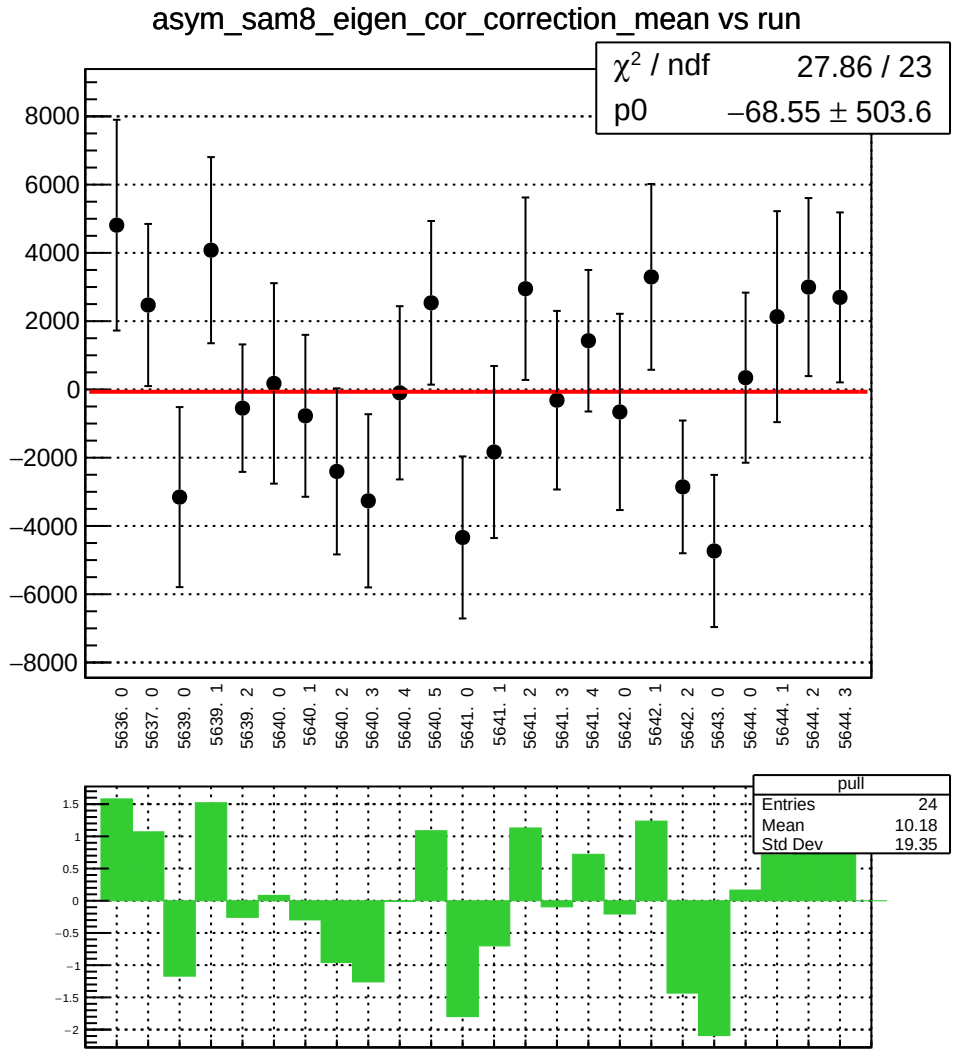

cor_asym_sam8_rms vs run
χ² / ndf 7596 / 23
p0 68.46 ± 0.09937
110
100
90
80
70
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

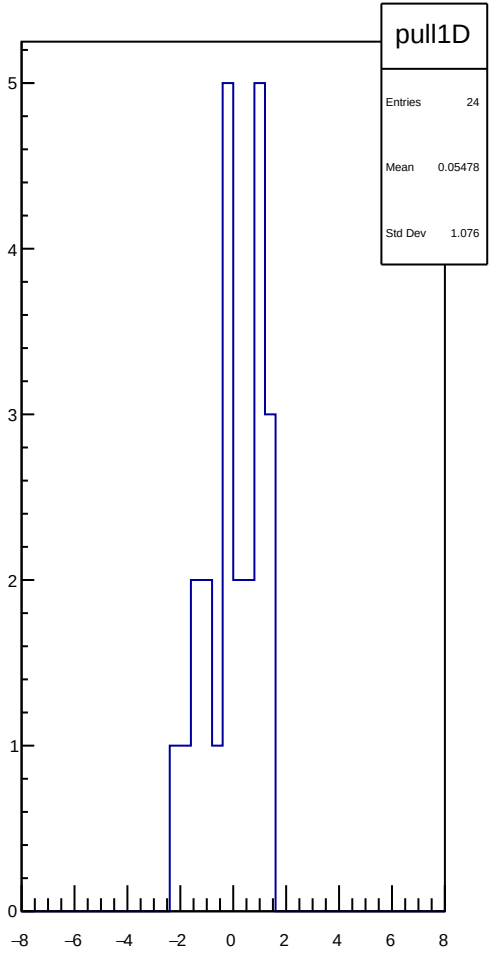

asym_sam8_cor_correction_mean vs run
χ² / ndf 27.86 / 23
p0 −68.55 ± 503.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 10.18
Std Dev 19.35
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.05478
Std Dev 1.076
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

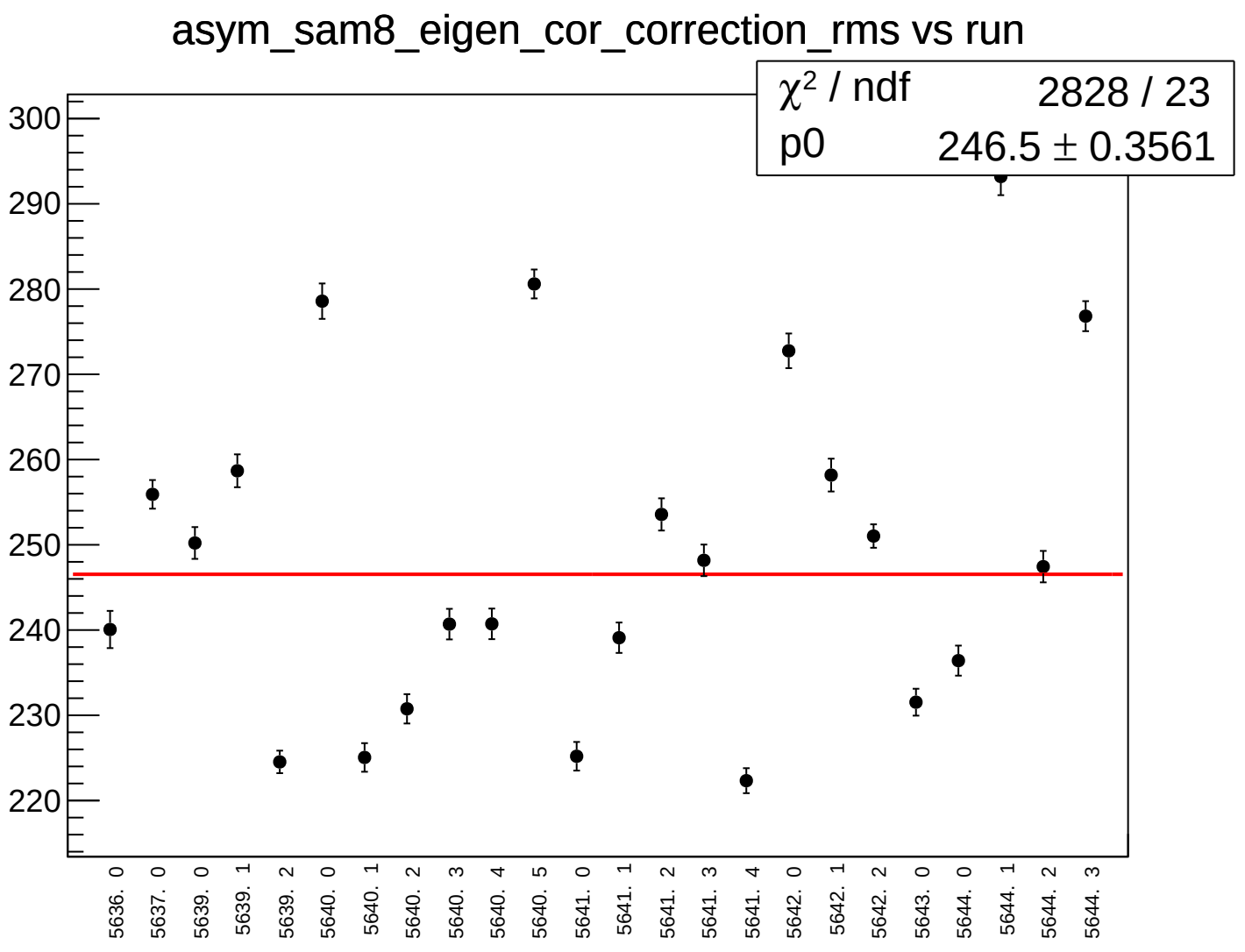

asym_sam8_cor_correction_rms vs run
χ² / ndf 2828 / 23
p0 246.5 ± 0.3561
300
290
280
270
260
250
240
230
220
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_cor_asym_sam8_mean vs run
χ² / ndf 18.87 / 23
p0 23.43 ± 140.5
3000
2000
1000
0
−1000
−2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 66.57
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.01637
Std Dev 0.8865
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam8_rms vs run
χ² / ndf 7596 / 23
p0 68.46 ± 0.09937
110
100
90
80
70
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 27.86 / 23
p0 −68.55 ± 503.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 10.18
Std Dev 19.35
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean 0.05478
Std Dev 1.076
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 2828 / 23
p0 246.5 ± 0.3561
300
290
280
270
260
250
240
230
220
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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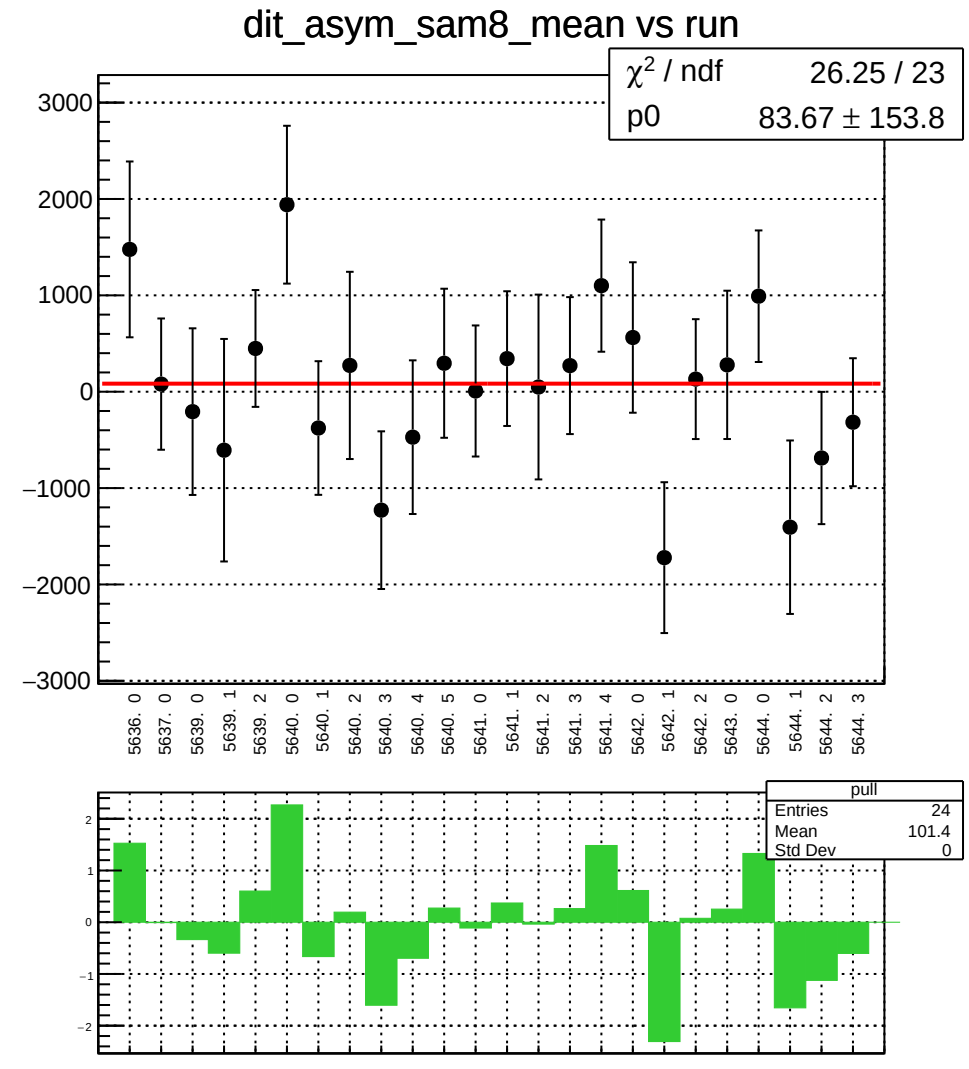
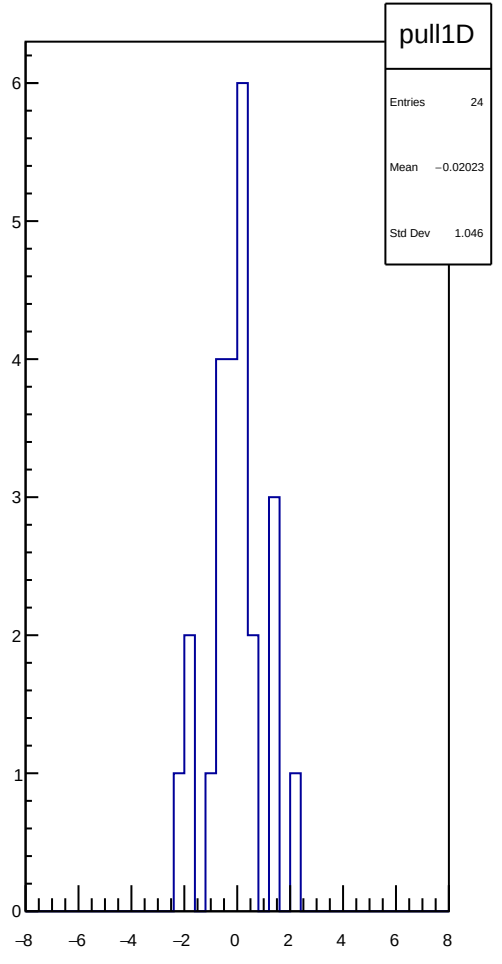
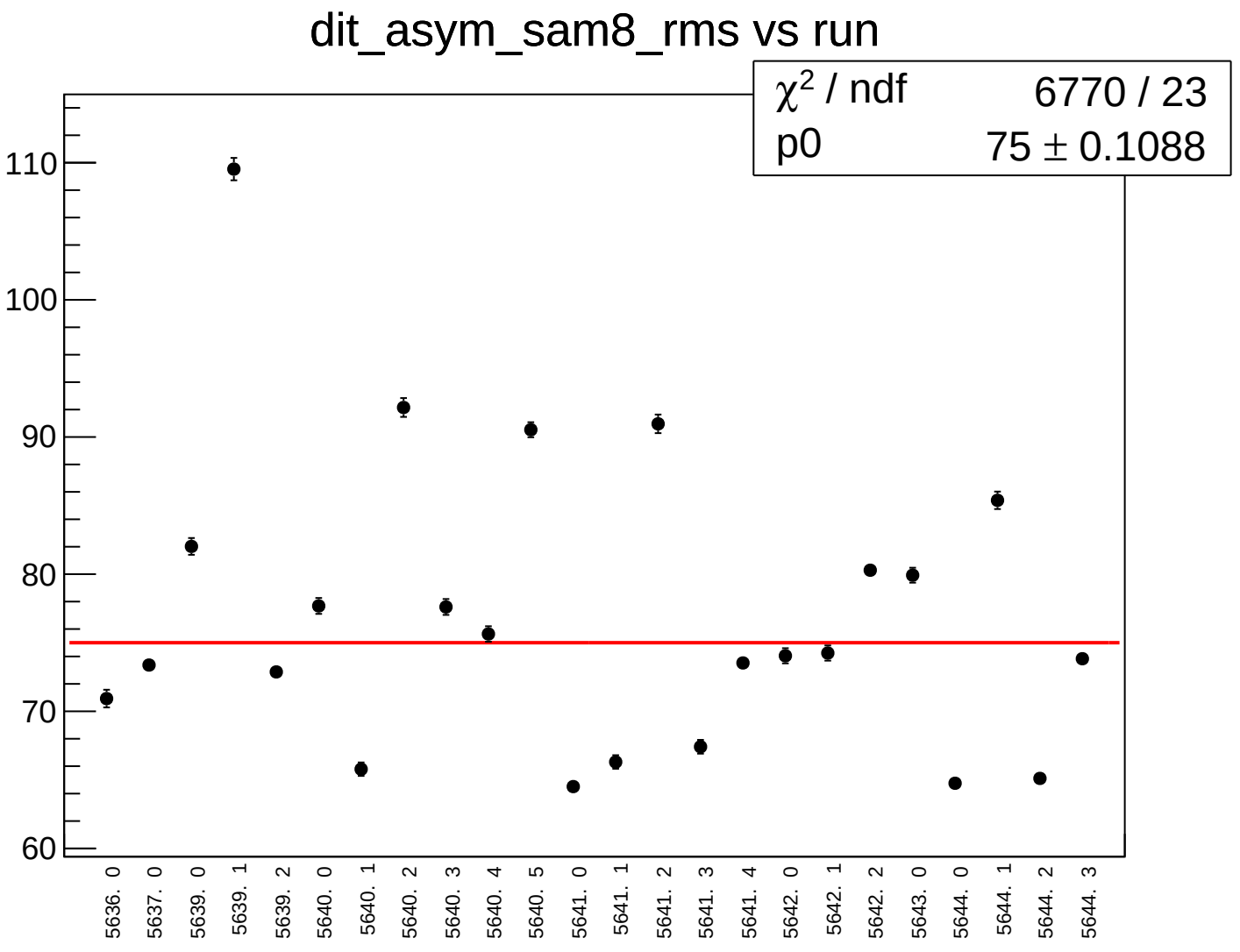
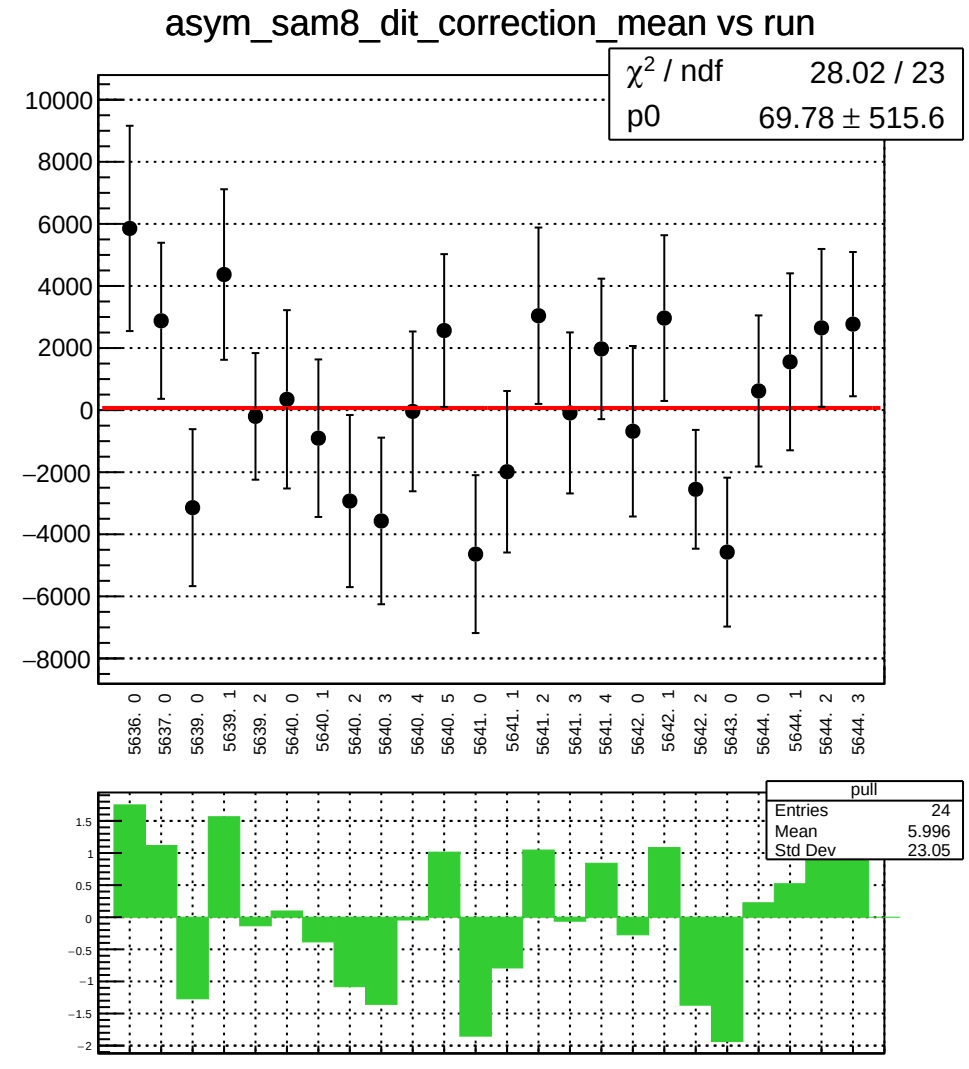
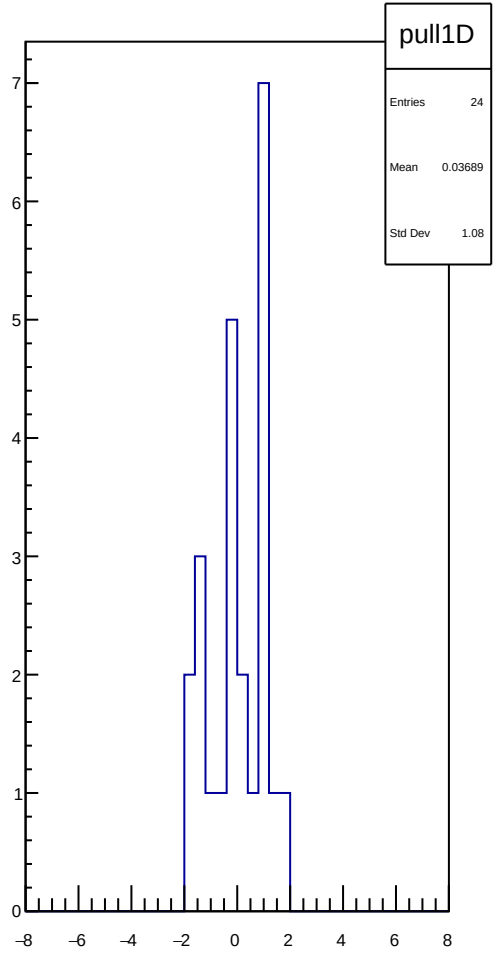
5644. 0
5644. 1
5644. 2
5644. 3

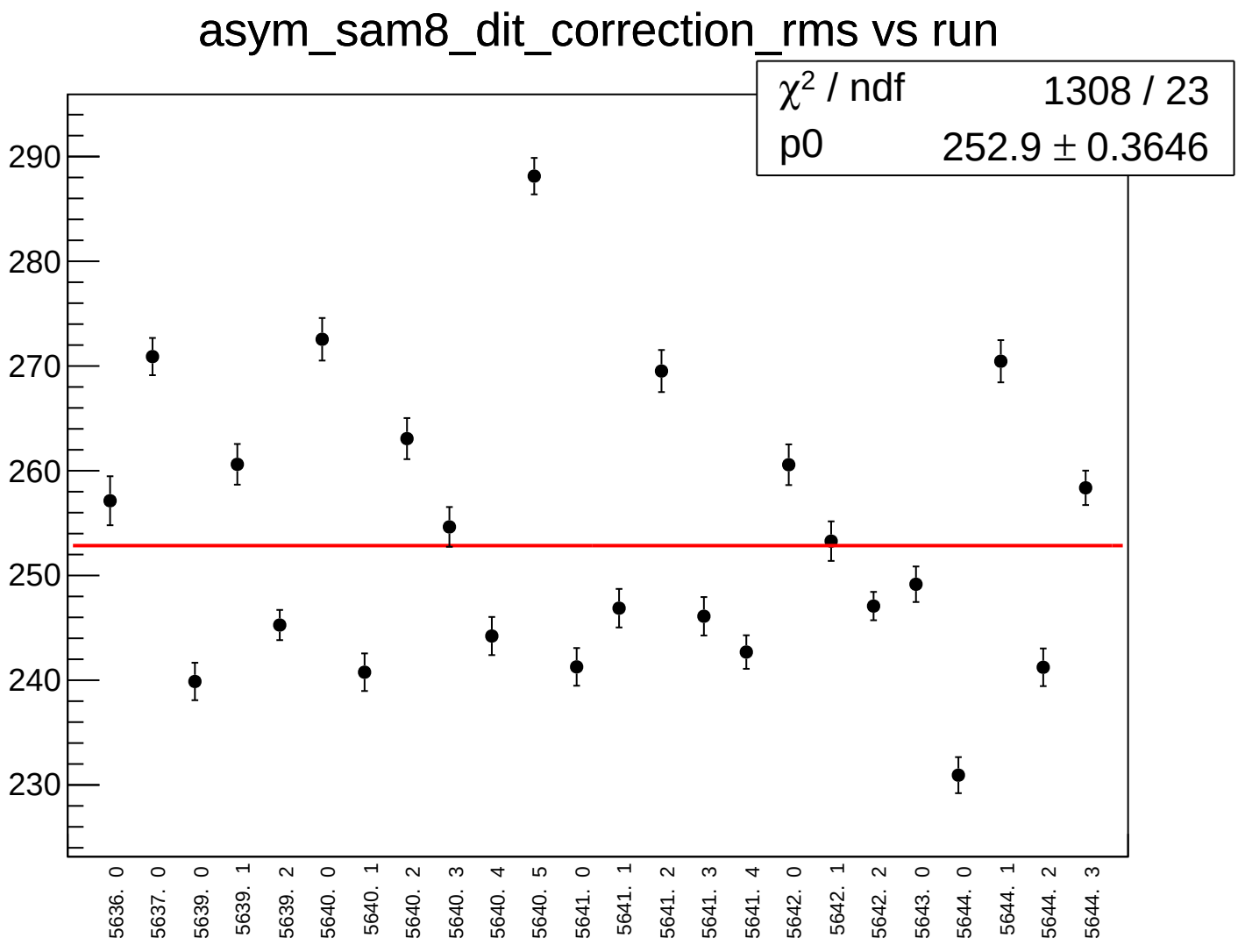

dit_asym_sam8_mean vs run
χ² / ndf 26.25 / 23
p0 83.67 ± 153.8
3000
2000
1000
0
−1000
−2000
−3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 101.4
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 24
Mean −0.02023
Std Dev 1.046
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam8_rms vs run
χ² / ndf 6770 / 23
p0 75 ± 0.1088
110
100
90
80
70
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam8_dit_correction_mean vs run
χ² / ndf 28.02 / 23
p0 69.78 ± 515.6
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 5.996
Std Dev 23.05
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean 0.03689
Std Dev 1.08
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam8_dit_correction_rms vs run
χ² / ndf 1308 / 23
p0 252.9 ± 0.3646
290
280
270
260
250
240
230
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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5642. 0
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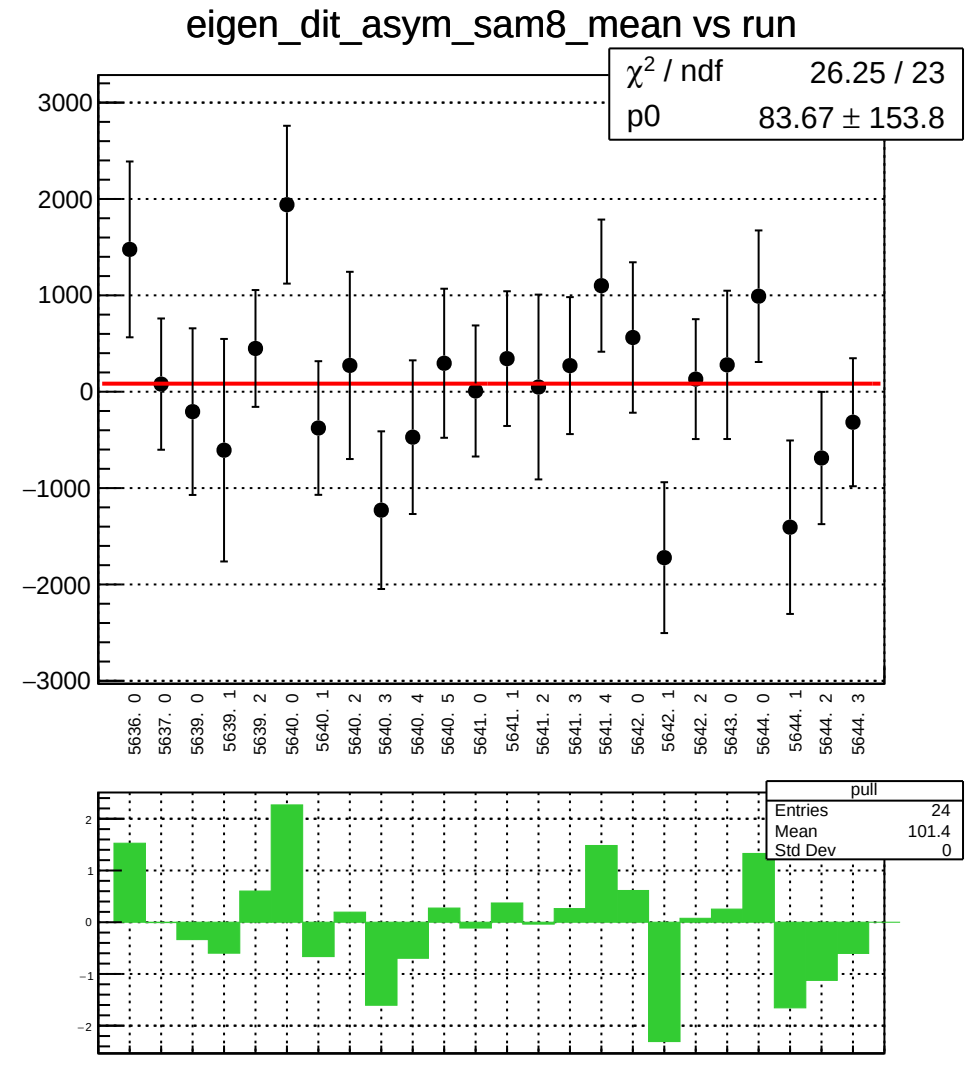
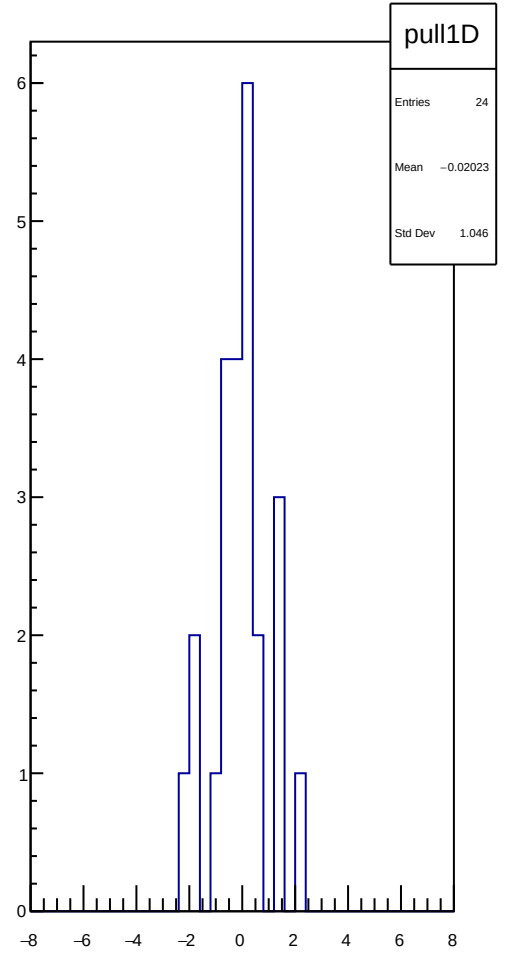
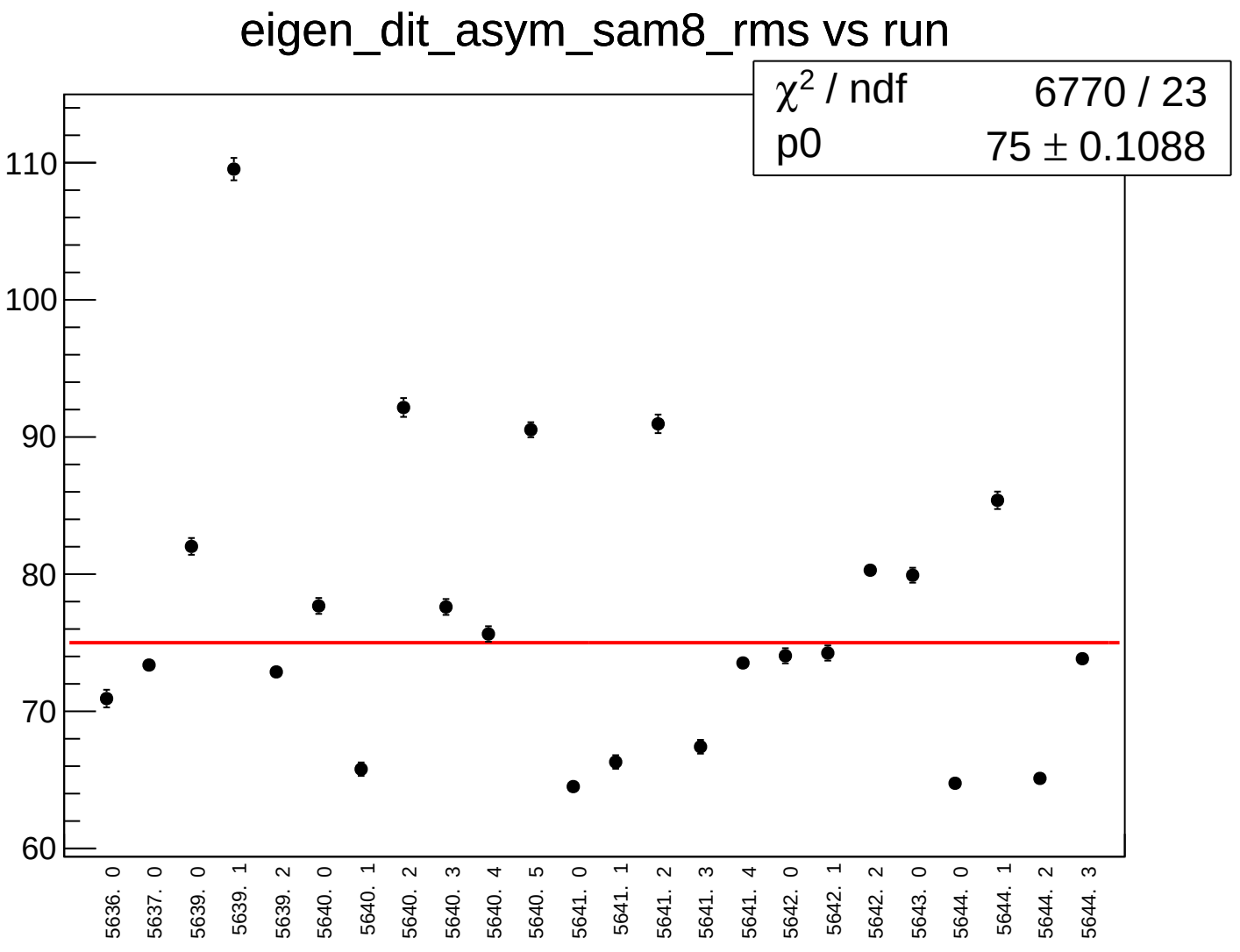
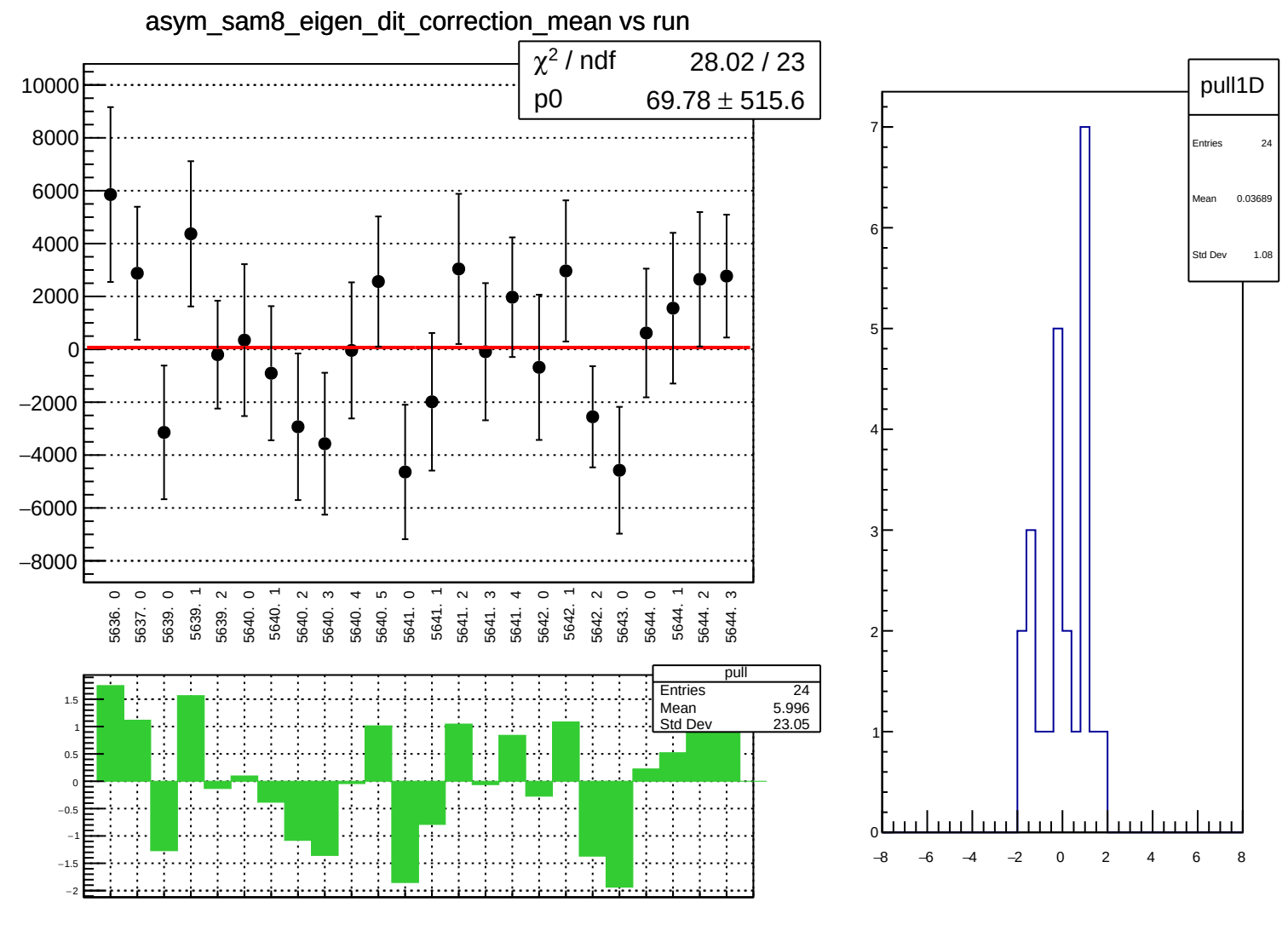
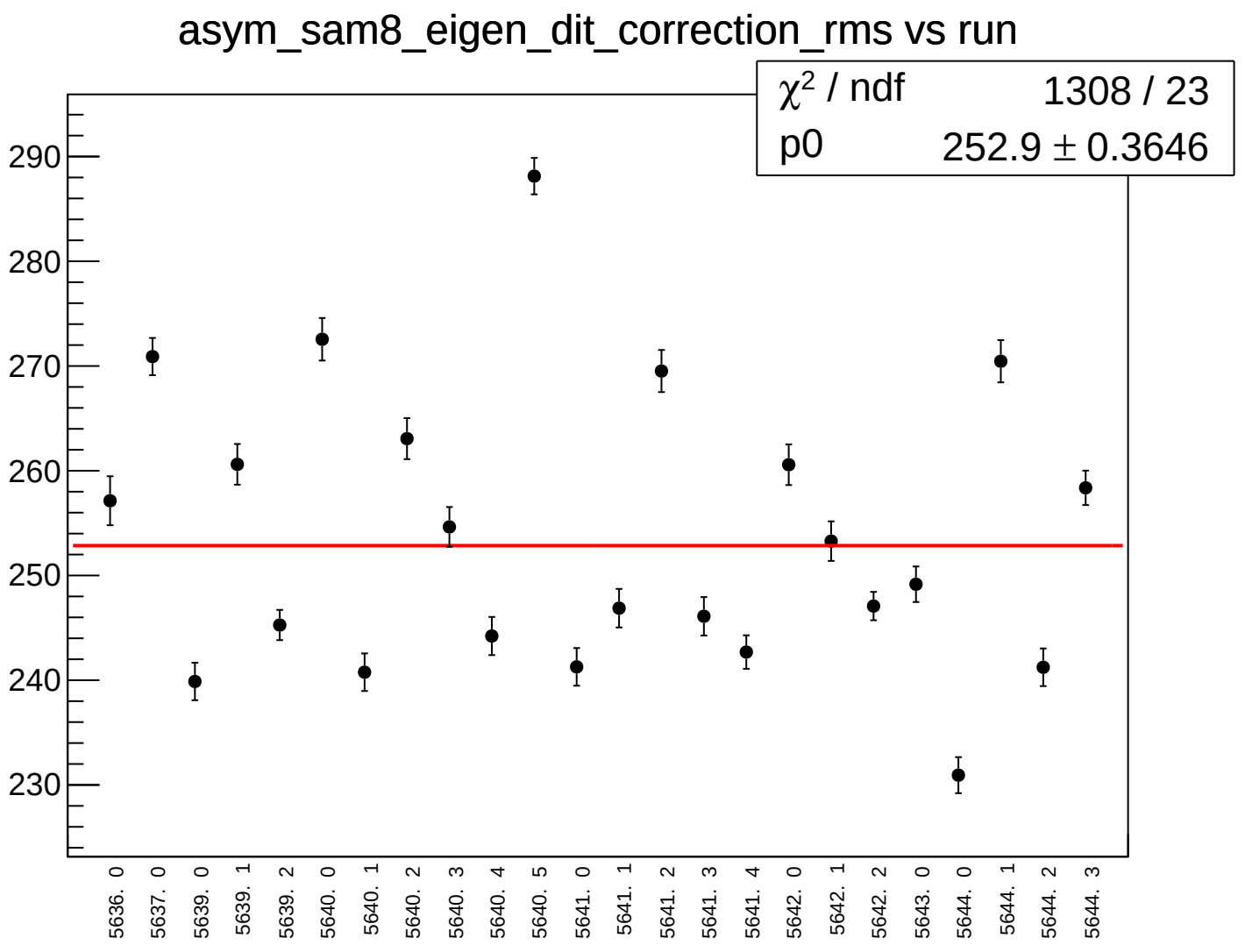
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

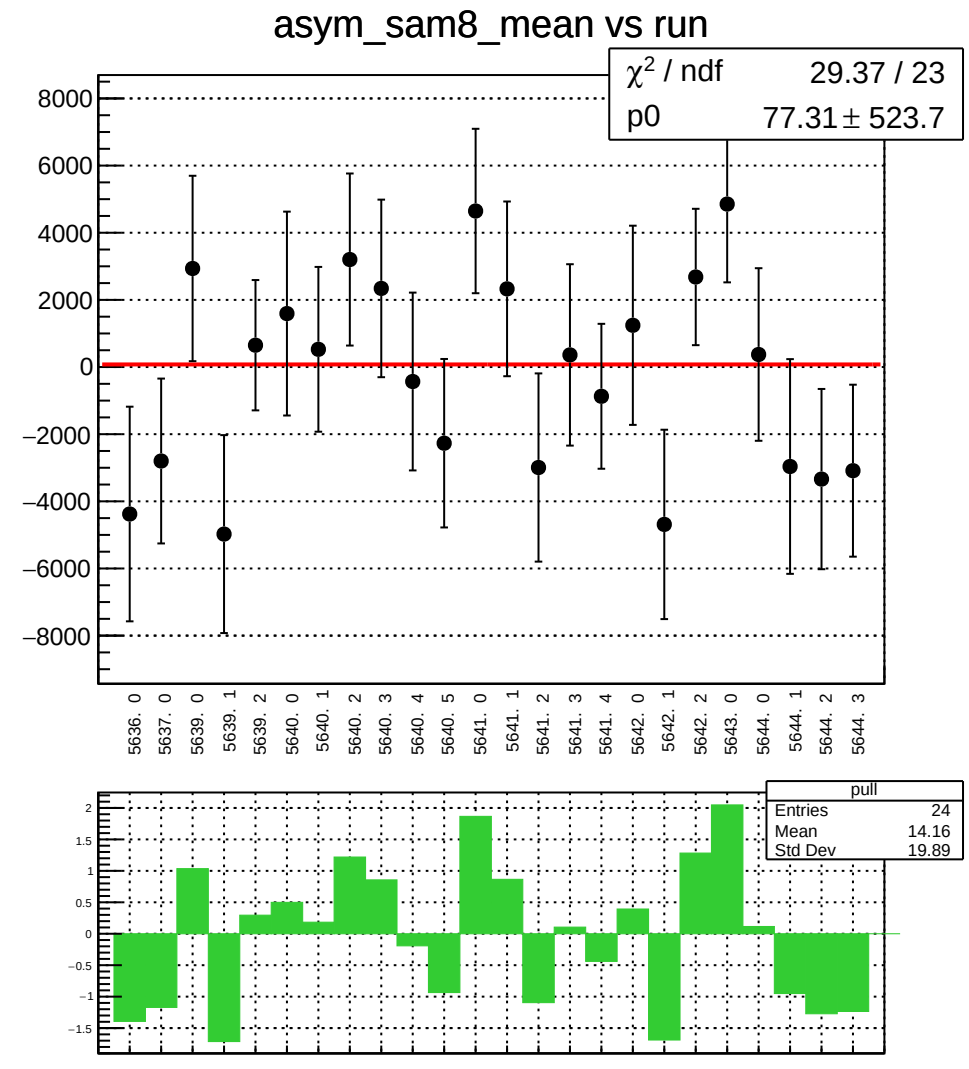

eigen_dit_asym_sam8_mean vs run
χ² / ndf 26.25 / 23
p0 83.67 ± 153.8
3000
2000
1000
0
−1000
−2000
−3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 101.4
Std Dev 0
2
1
0
−1
−2

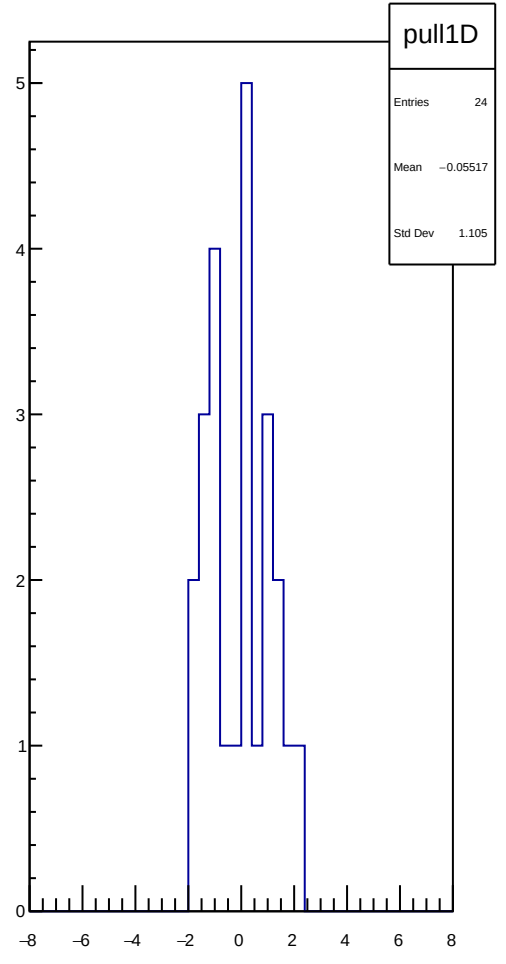

pull1D
Entries 24
Mean −0.02023
Std Dev 1.046
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

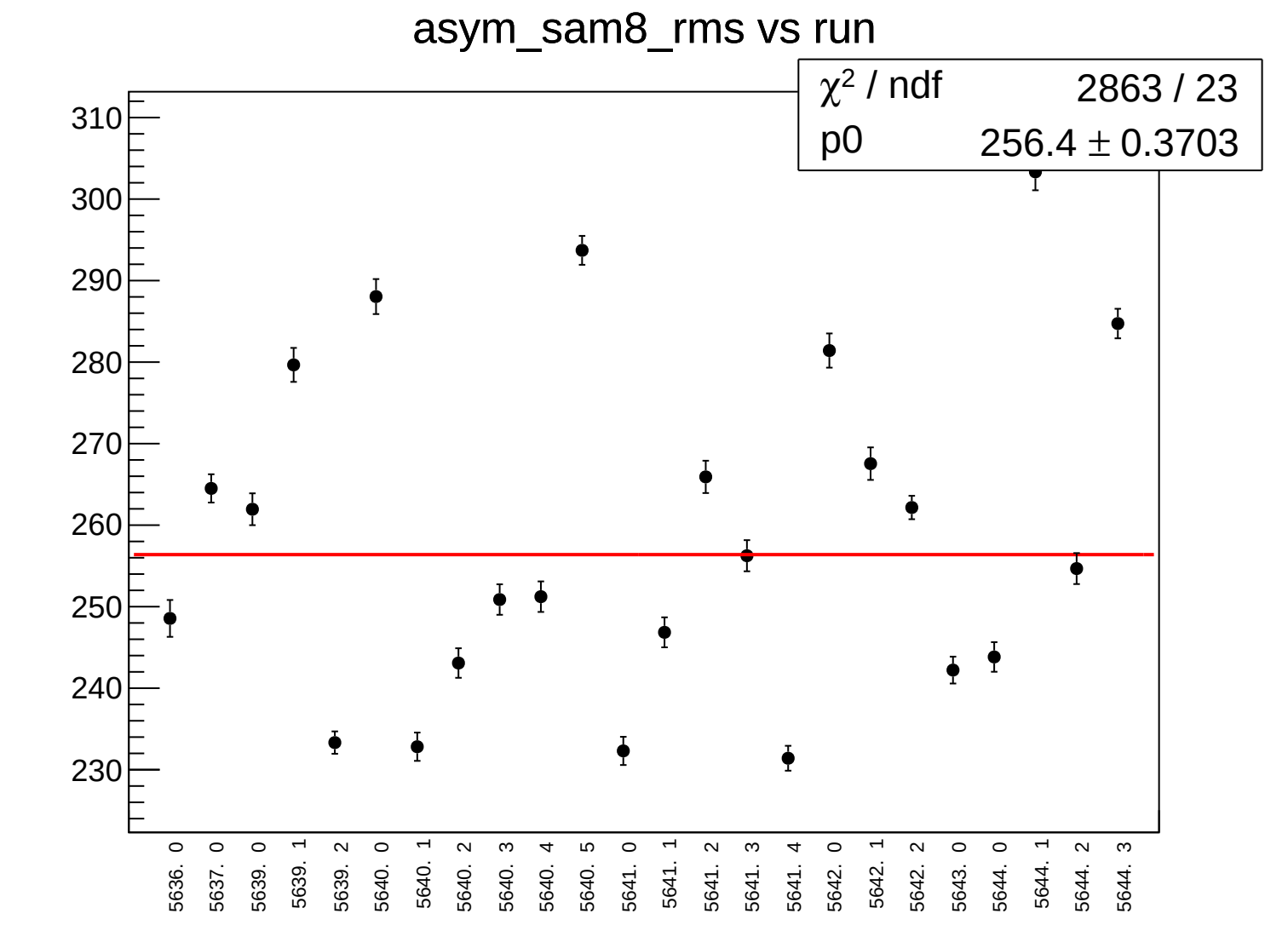

eigen_dit_asym_sam8_rms vs run
χ² / ndf 6770 / 23
p0 75 ± 0.1088
110
100
90
80
70
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

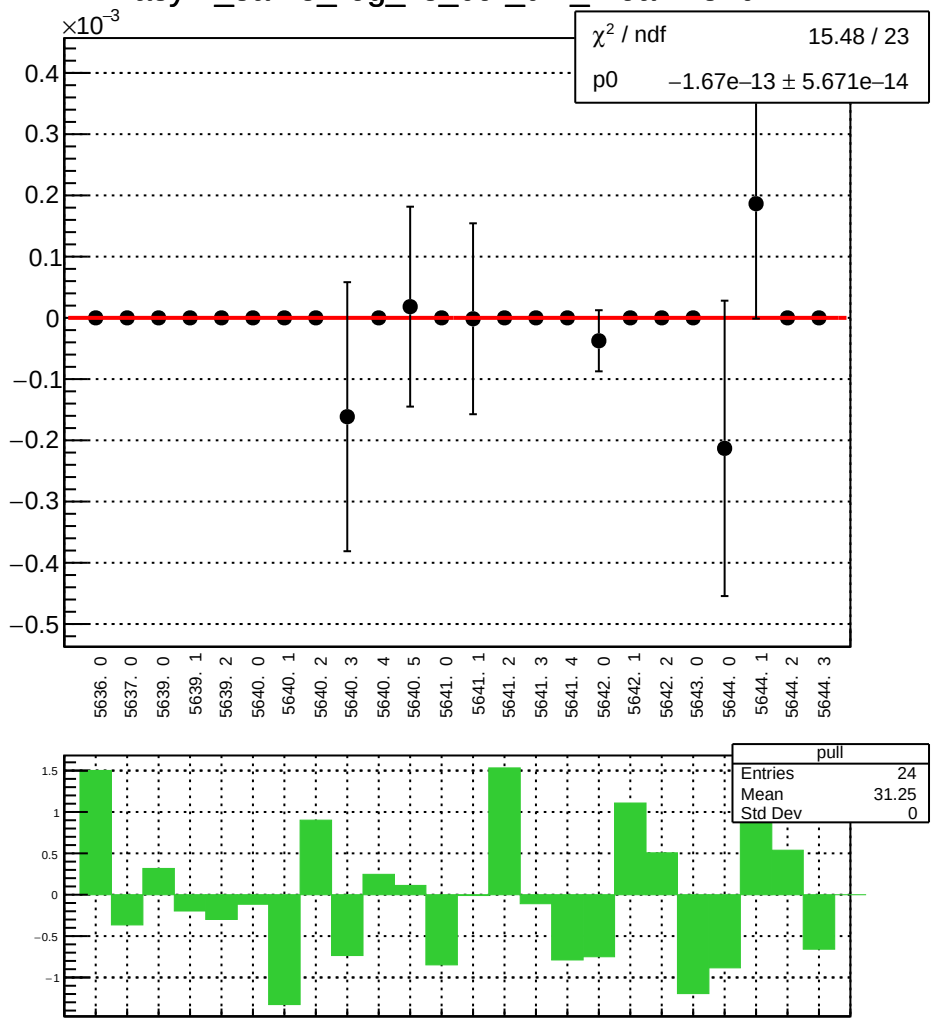

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 28.02 / 23
p0 69.78 ± 515.6
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 5.996
Std Dev 23.05
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.03689
Std Dev 1.08
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

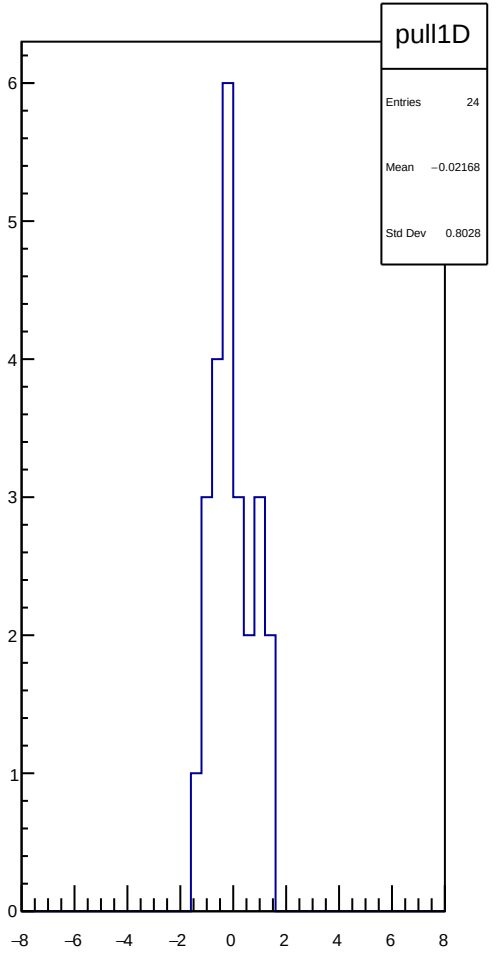

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 1308 / 23
p0 252.9 ± 0.3646
290
280
270
260
250
240
230
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

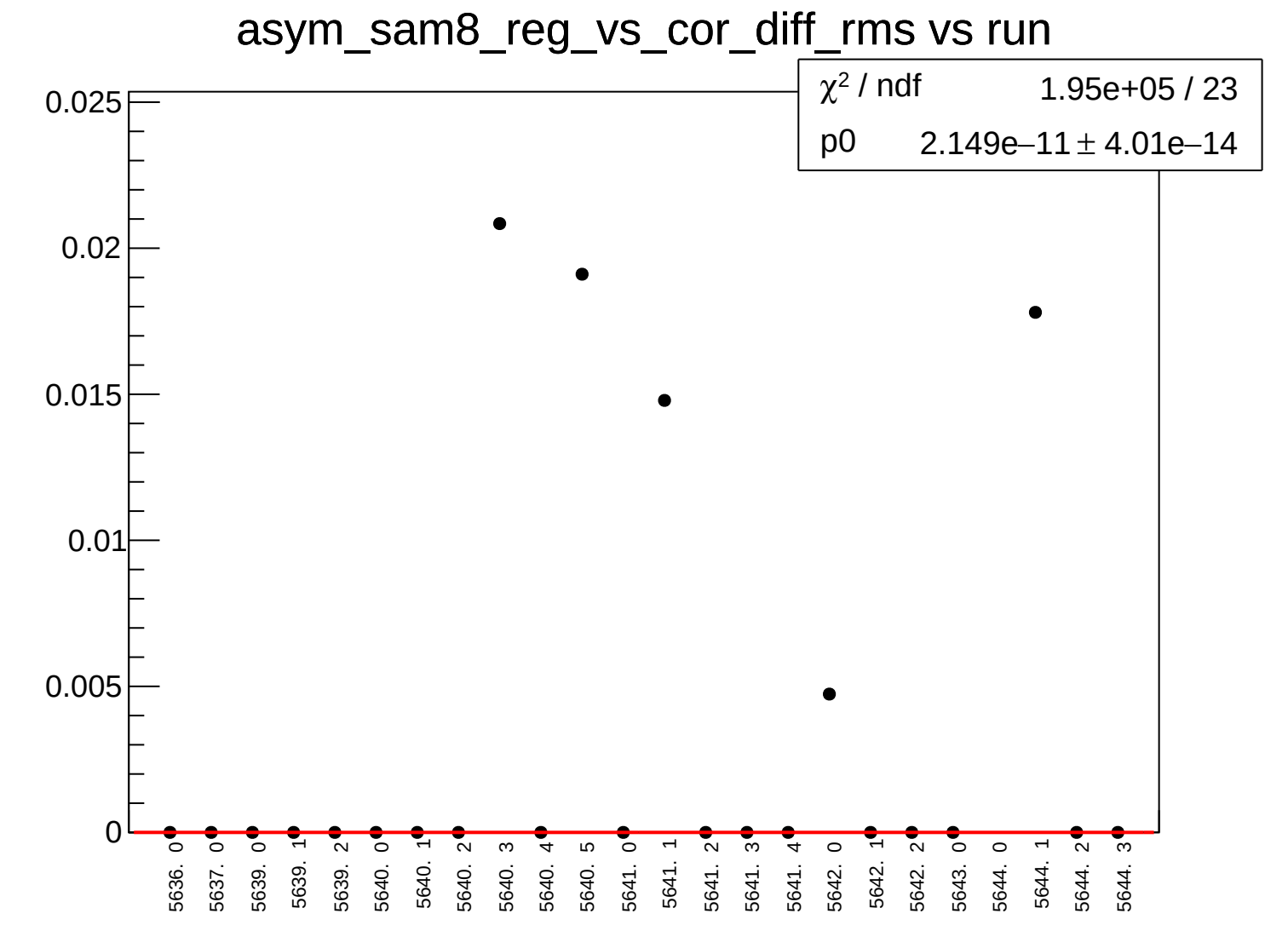

asym_sam8_mean vs run
χ² / ndf 29.37 / 23
p0 77.31 ± 523.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 14.16
Std Dev 19.89
2
1.5
1
0.5
0
−0.5
−1
−1.5

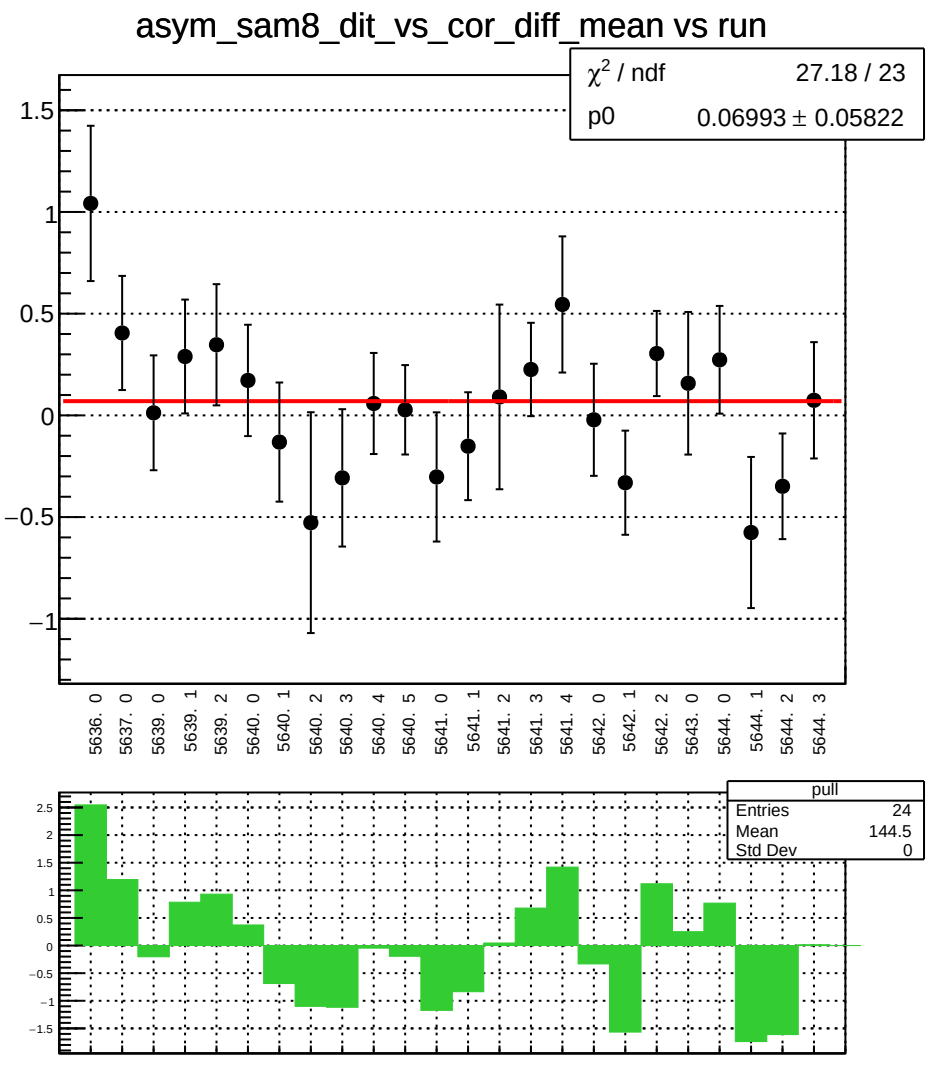

pull1D
Entries 24
Mean −0.05517
Std Dev 1.105
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

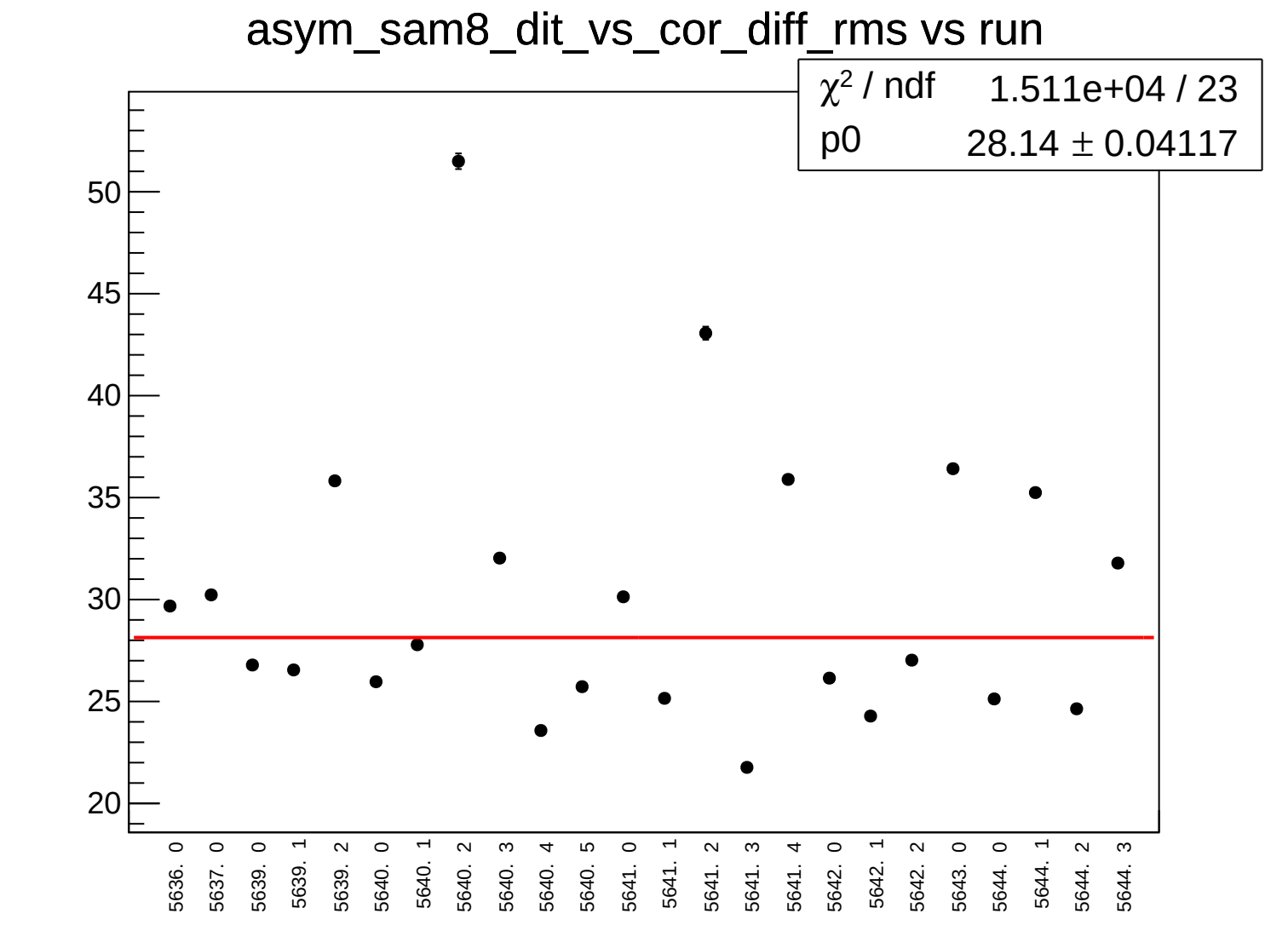

asym_sam8_rms vs run
χ² / ndf 2863 / 23
p0 256.4 ± 0.3703
310
300
290
280
270
260
250
240
230
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

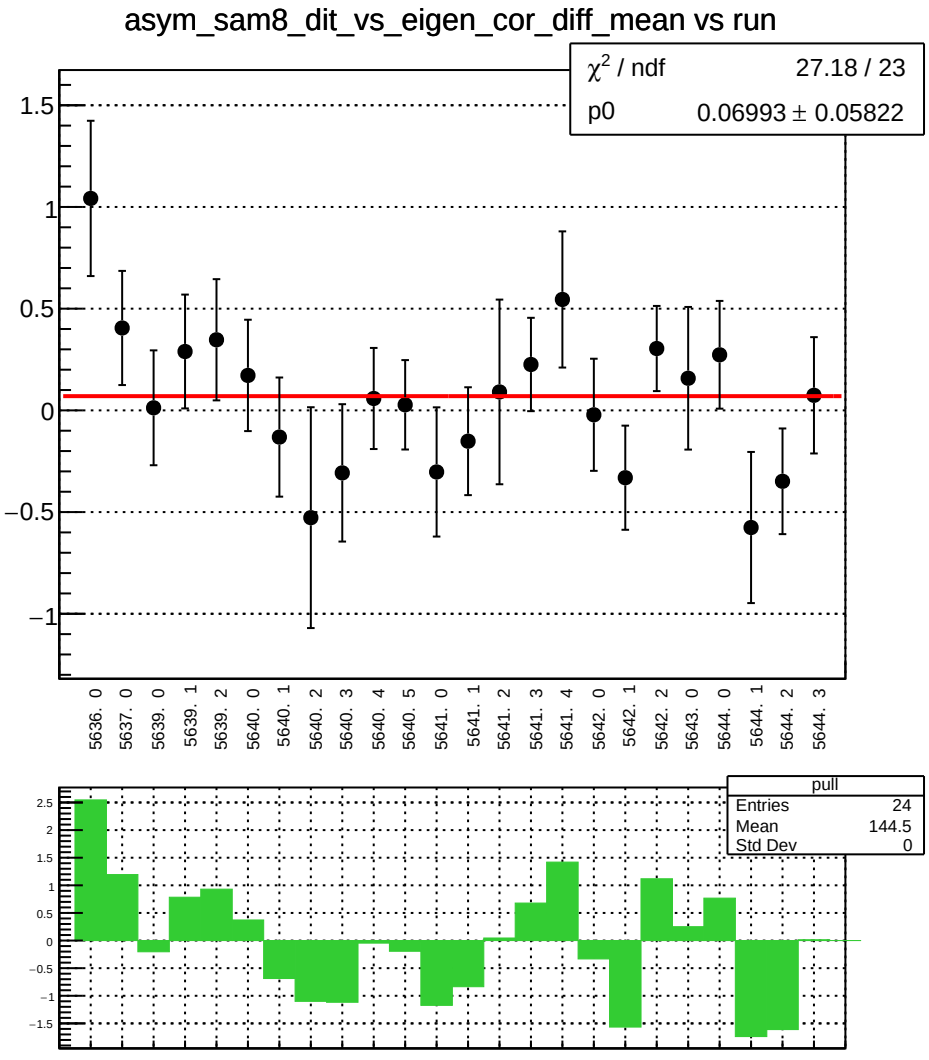

asym_sam8_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 15.48 / 23
p0 −1.67e−13 ± 5.671e−14
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 31.25
Std Dev 0
1.5
1
0.5
0
−0.5
−1

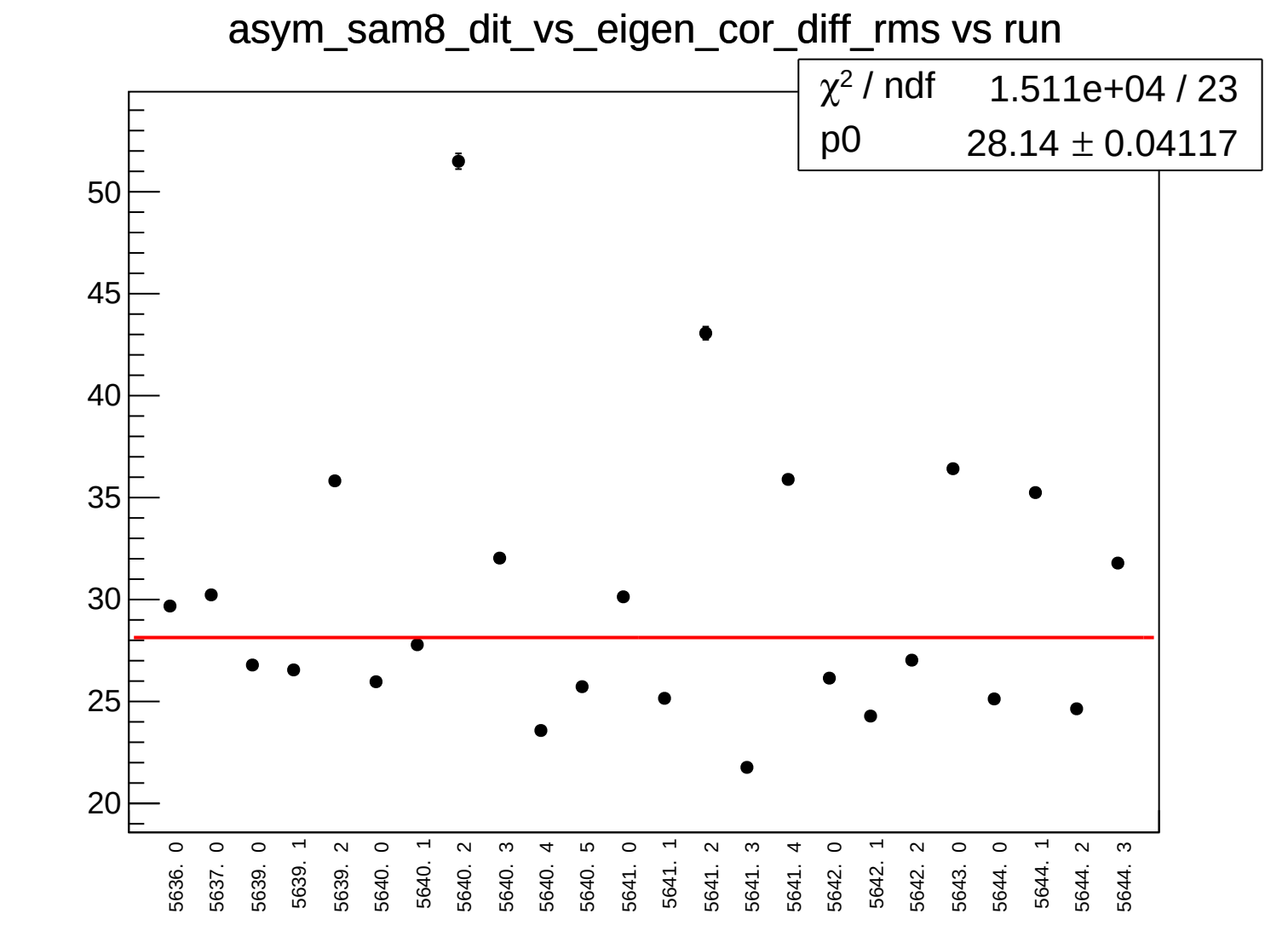

pull1D
Entries 24
Mean −0.02168
Std Dev 0.8028
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

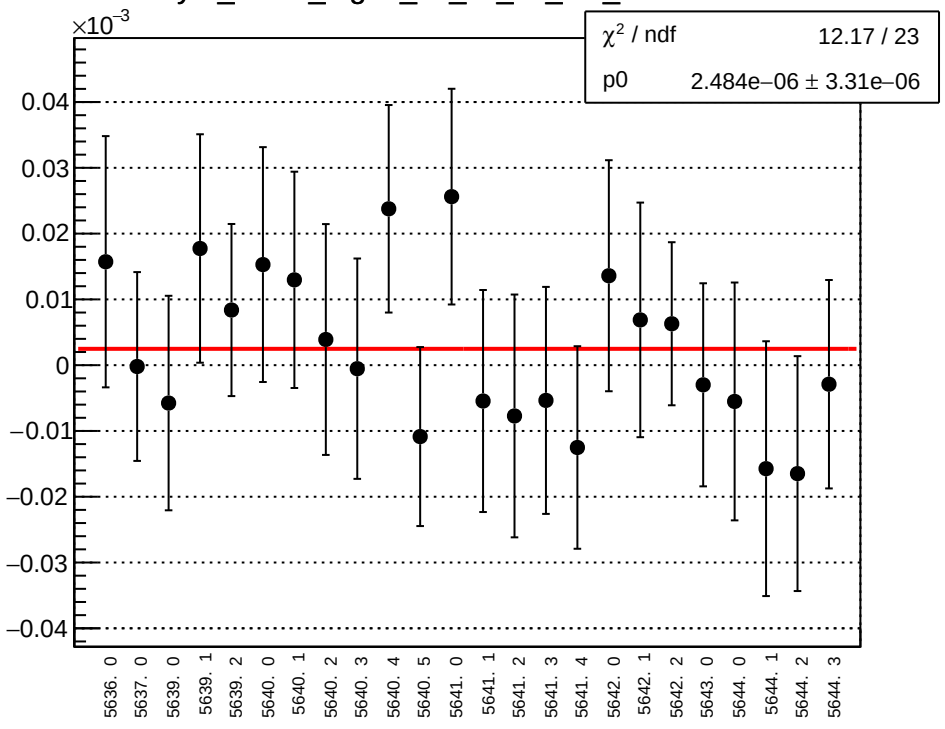

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.95e+05 / 23
p0 2.149e−11 ± 4.01e−14
0.025
0.02
0.015
0.01
0.005
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

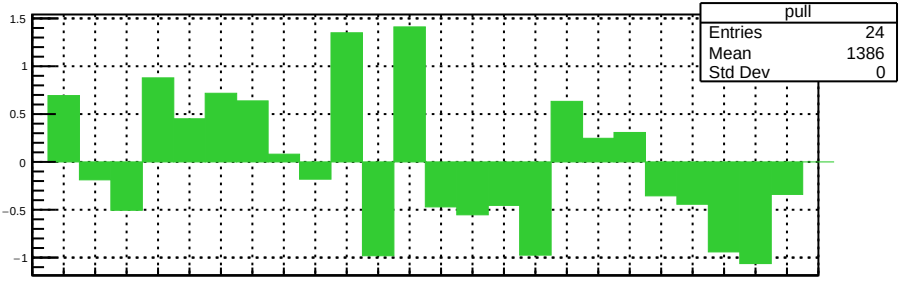

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 27.18 / 23
p0 0.06993 ± 0.05822
1.5
1
0.5
0
−0.5
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 144.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.02004
Std Dev 1.064
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

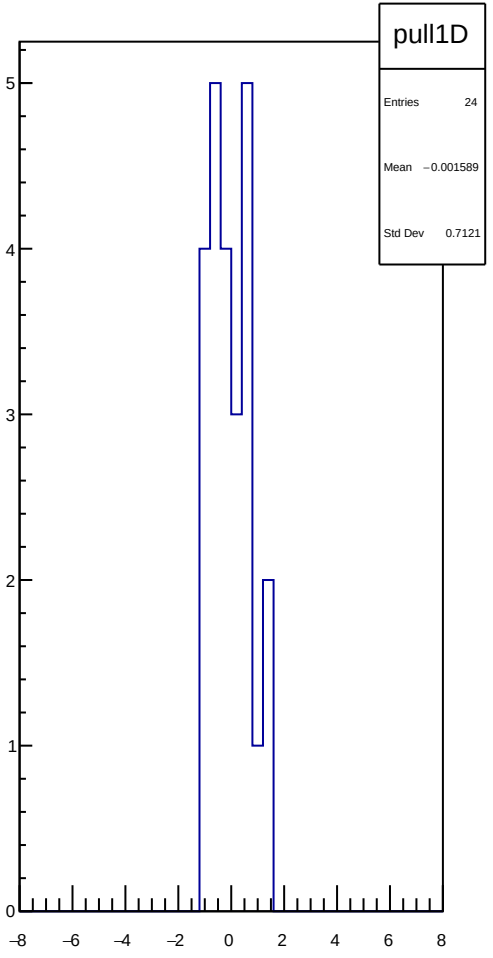

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 1.511e+04 / 23
p0 28.14 ± 0.04117
50
45
40
35
30
25
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

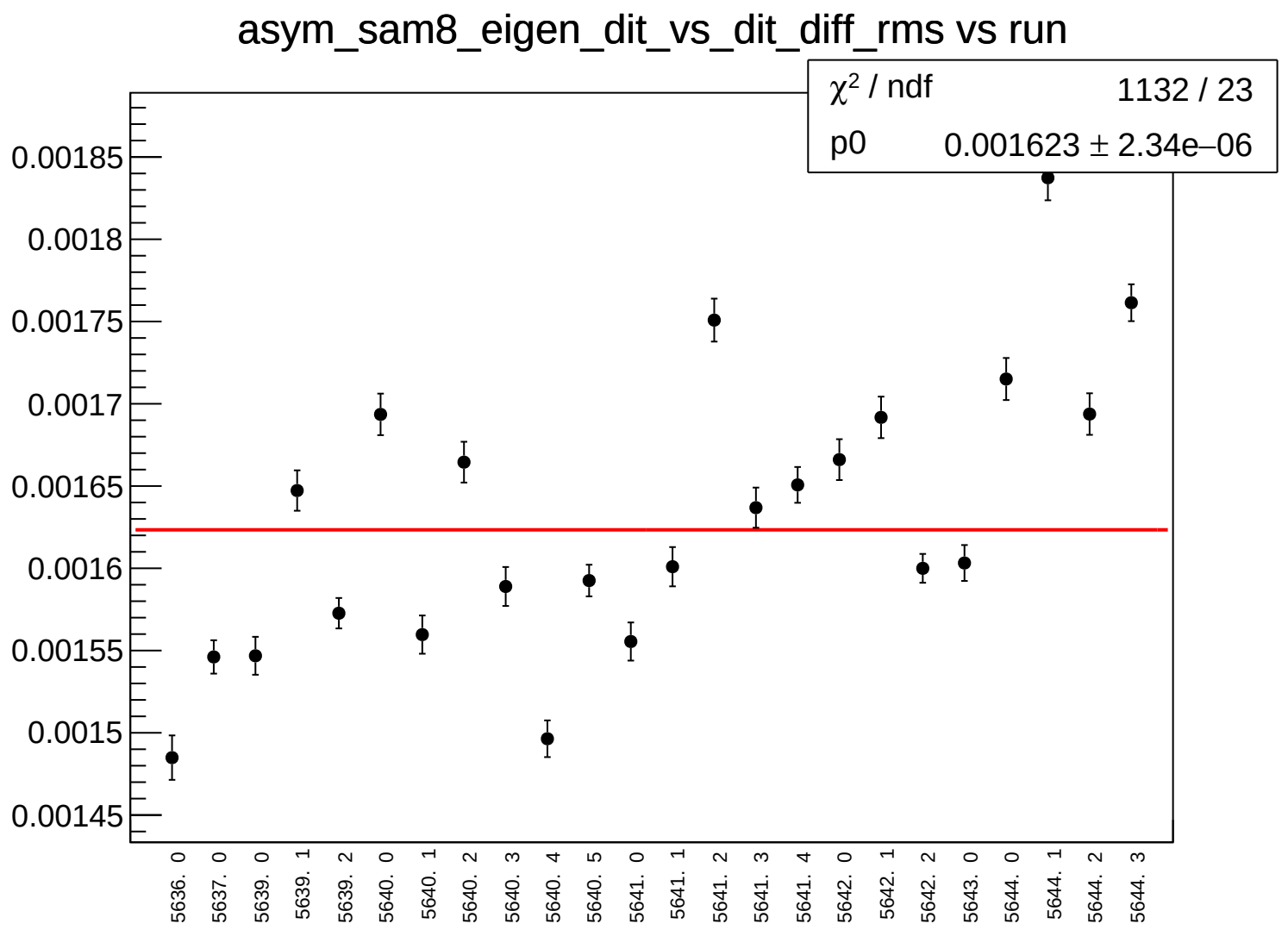

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.18 / 23
p0 0.06993 ± 0.05822
1.5
1
0.5
0
−0.5
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 144.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.02004
Std Dev 1.064
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

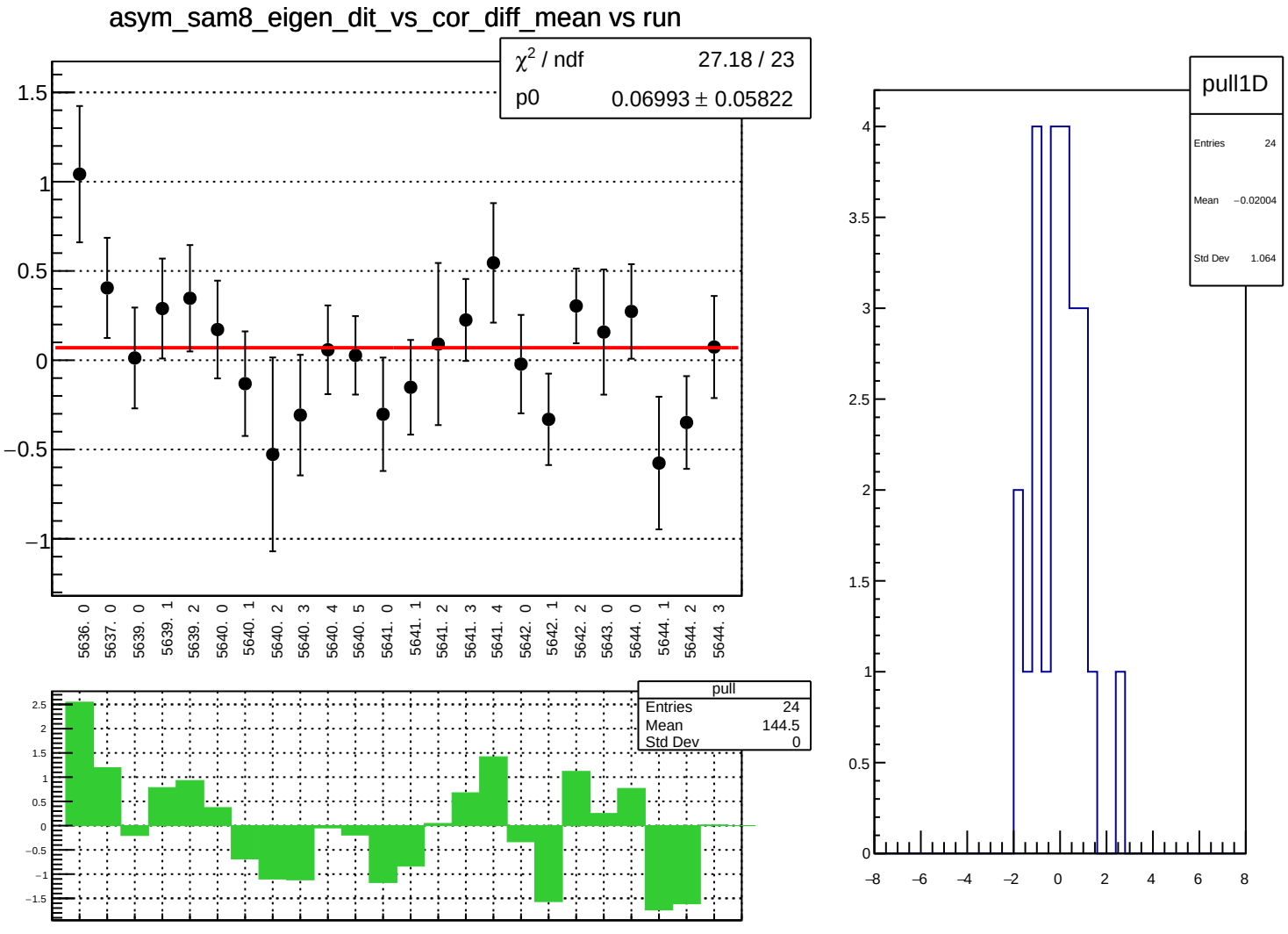

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.511e+04 / 23
p0 28.14 ± 0.04117
50
45
40
35
30
25
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

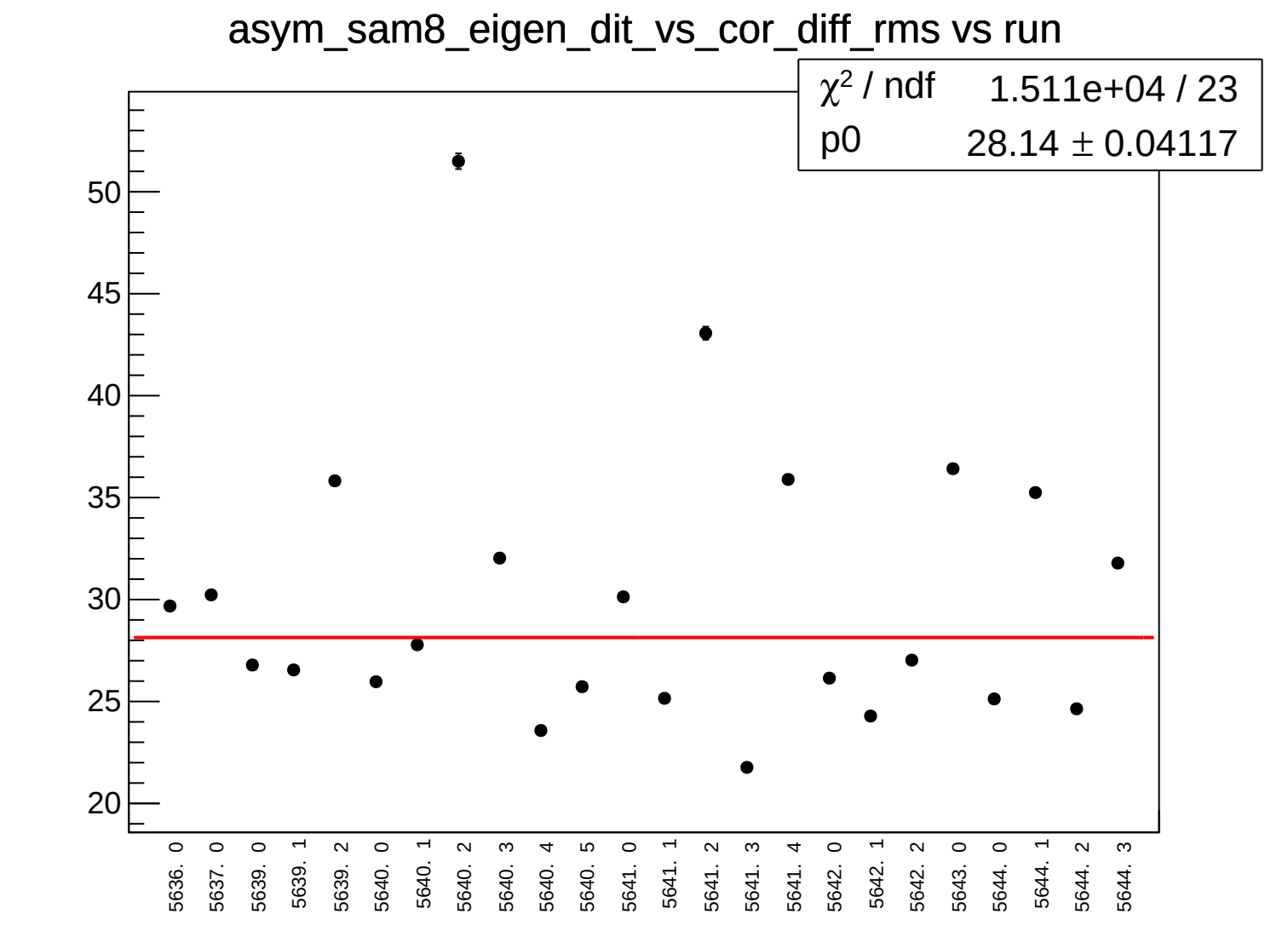

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 12.17 / 23
p0 2.484e−06 ± 3.31e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

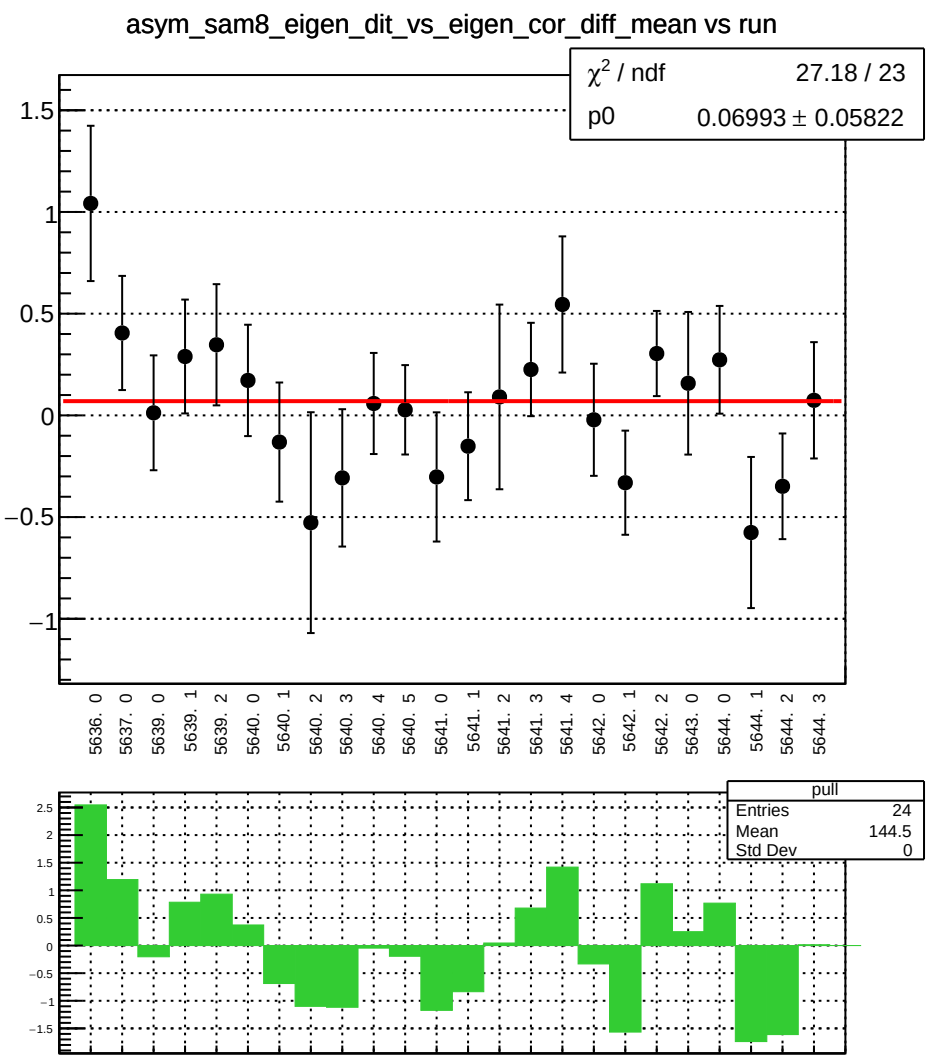

pull
Entries 24
Mean 1386
Std Dev 0
1.5
1
0.5
0
−0.5
−1

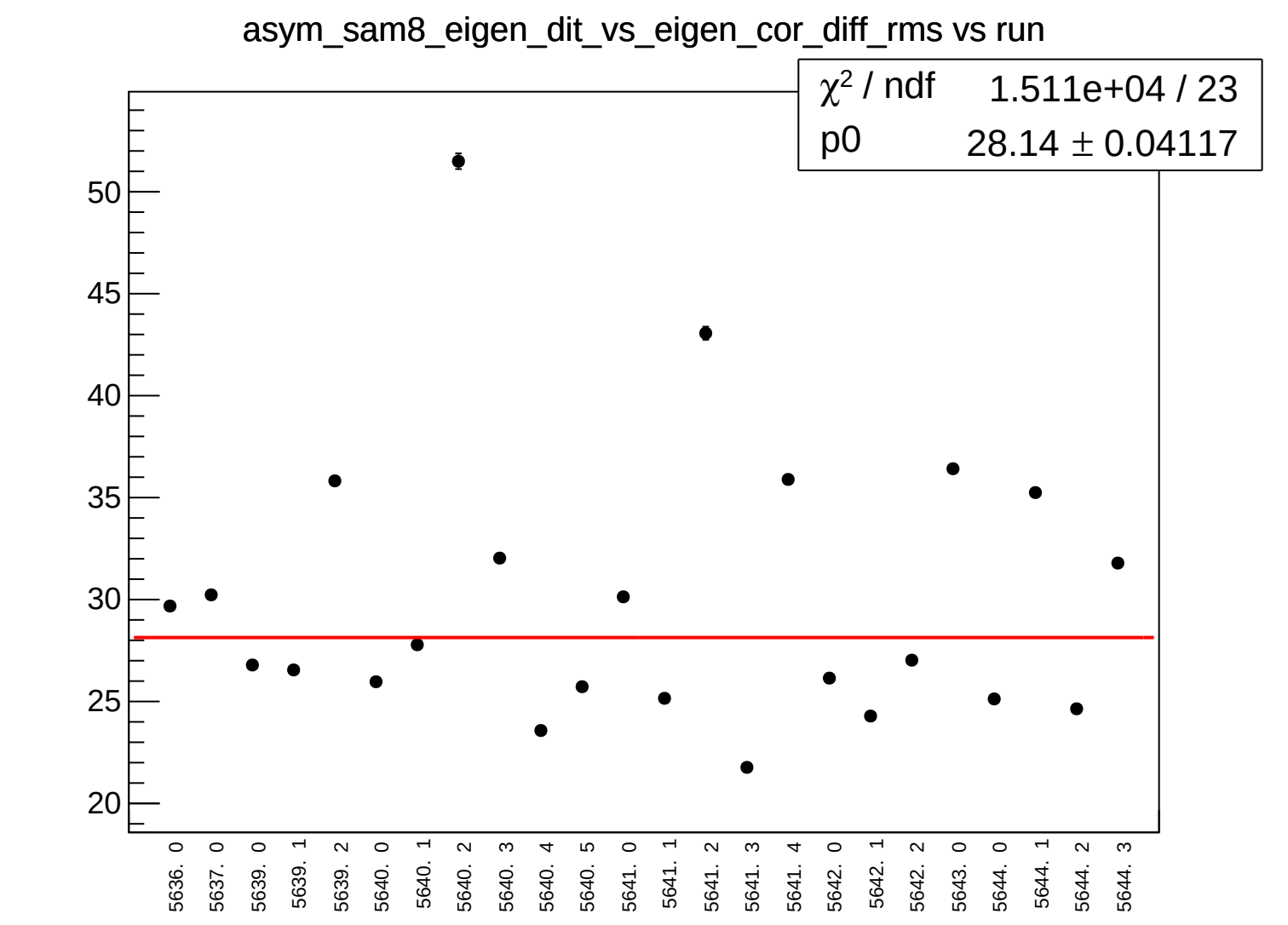

pull1D
Entries 24
Mean −0.001589
Std Dev 0.7121
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

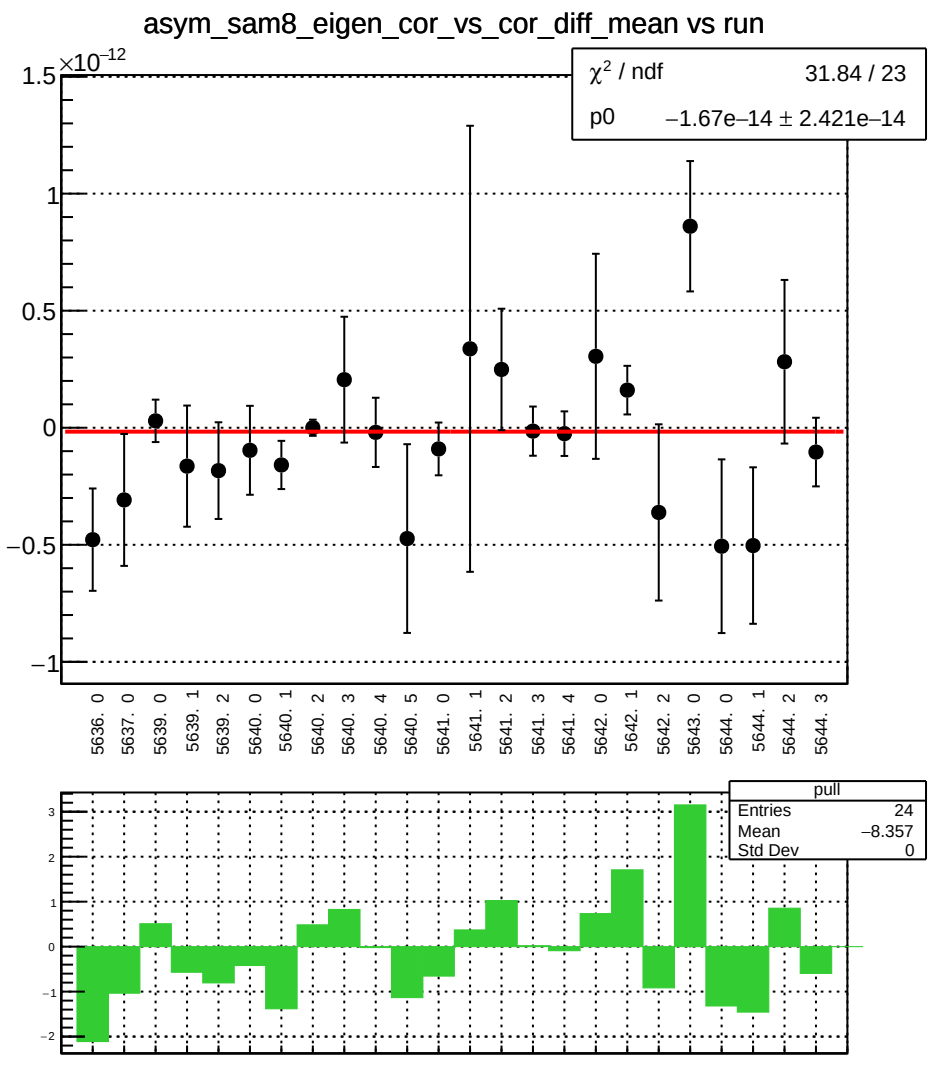

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1132 / 23
p0 0.001623 ± 2.34e–06
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

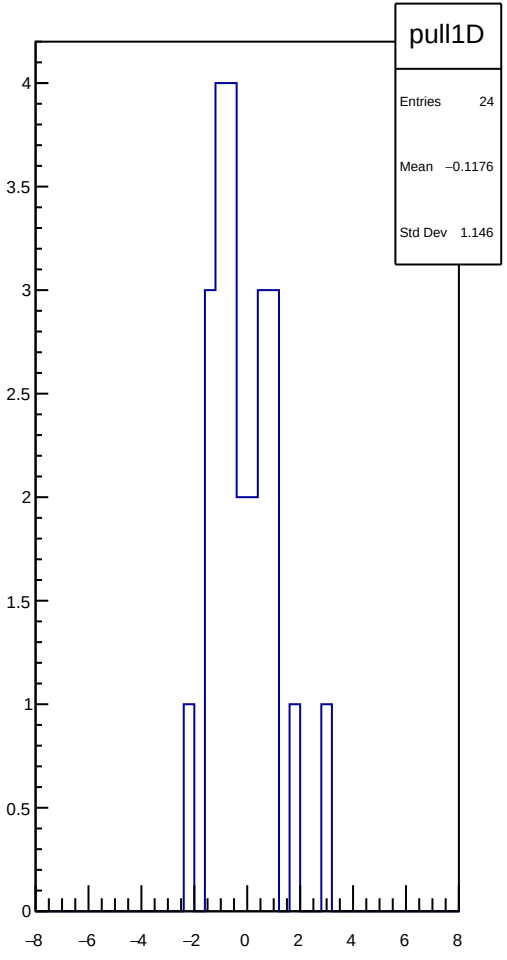

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 27.18 / 23
p0 0.06993 ± 0.05822
1.5
1
0.5
0
−0.5
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 144.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.02004
Std Dev 1.064
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

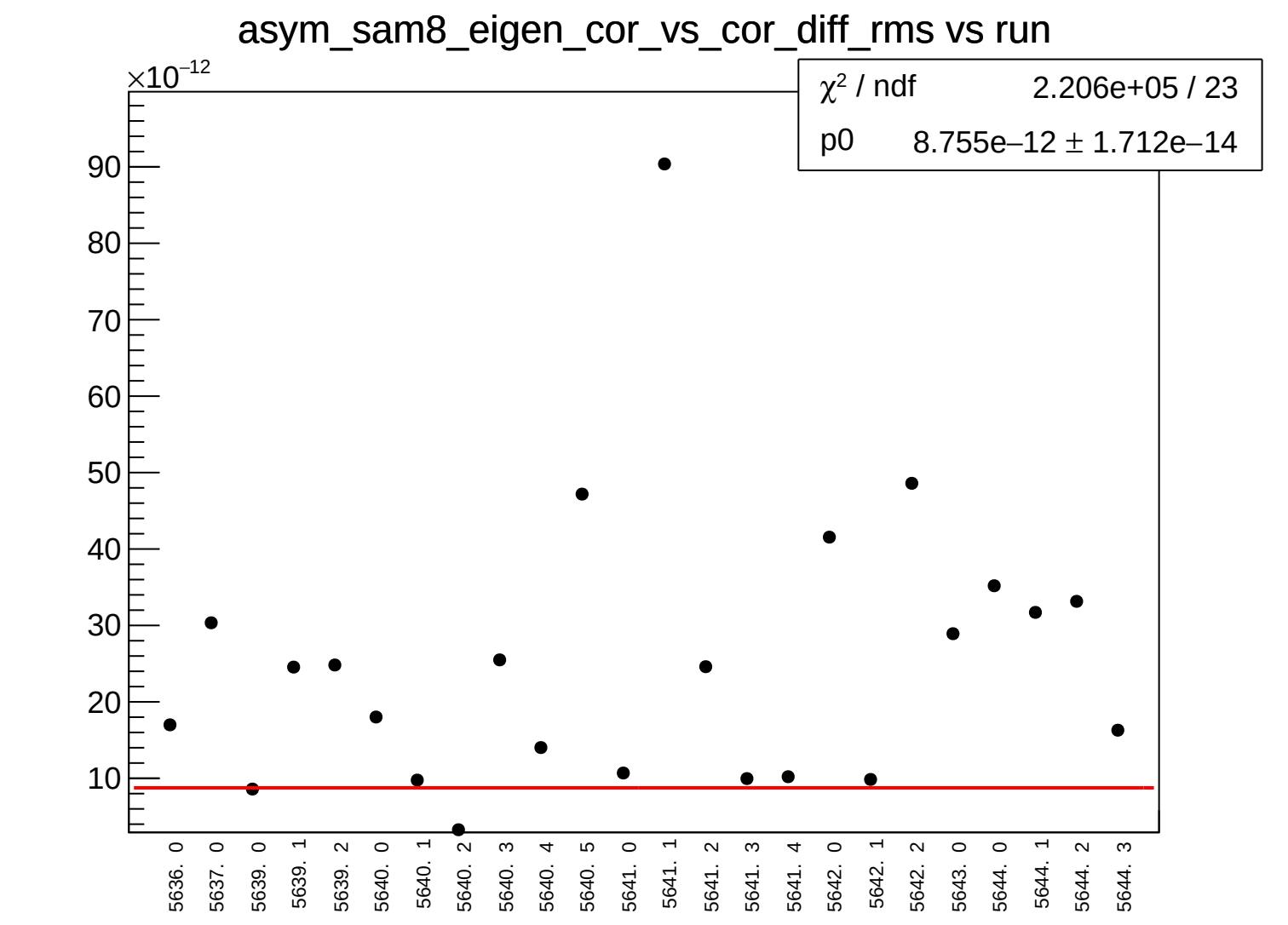

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.511e+04 / 23
p0 28.14 ± 0.04117
50
45
40
35
30
25
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

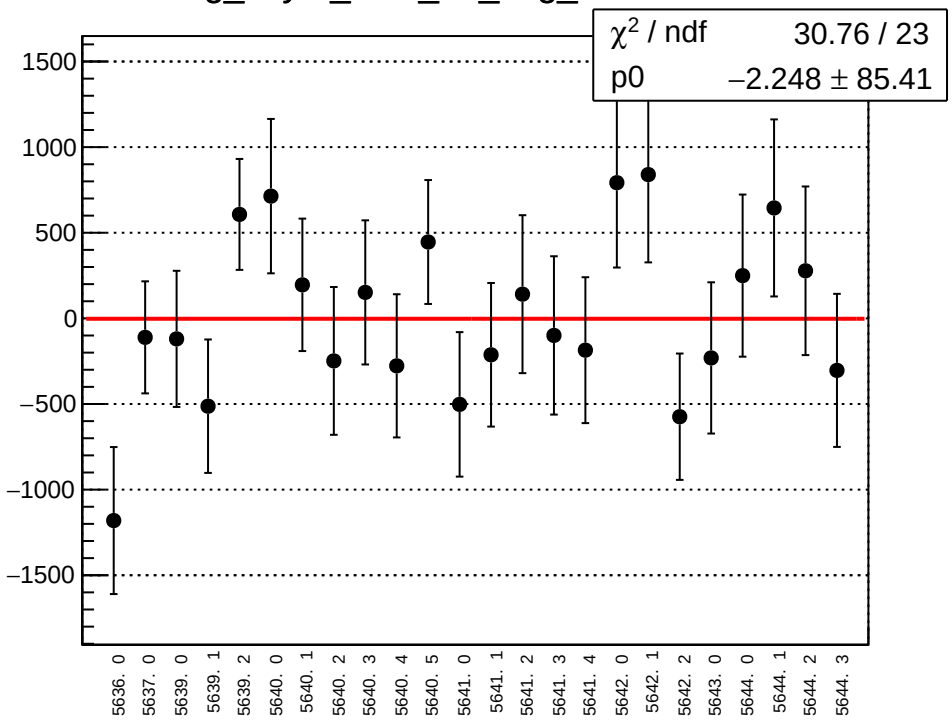

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.18 / 23
p0 0.06993 ± 0.05822
1.5
1
0.5
0
−0.5
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 144.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.02004
Std Dev 1.064
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

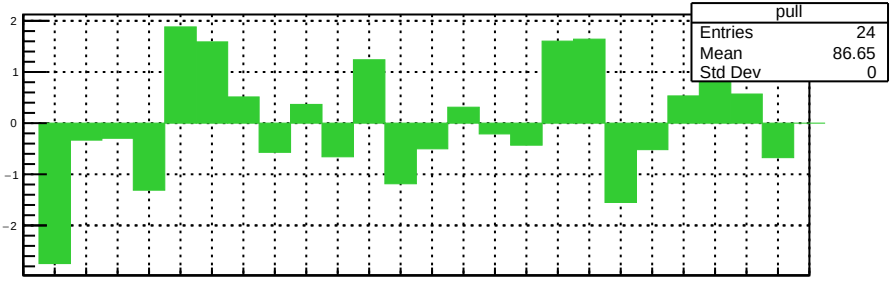

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.511e+04 / 23
p0 28.14 ± 0.04117
50
45
40
35
30
25
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

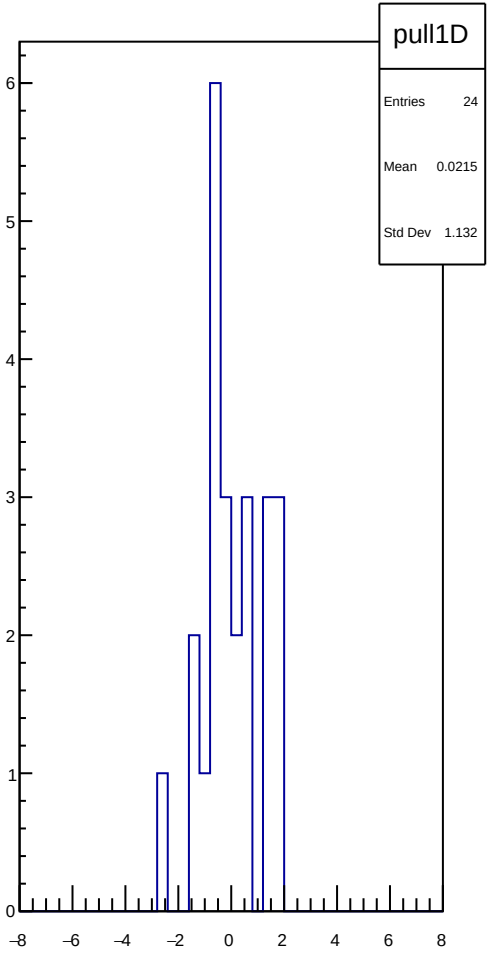

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 31.84 / 23
p0 −1.67e−14 ± 2.421e−14
1.5
1
0.5
0
−0.5
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −8.357
Std Dev 0
3
2
1
0
−1
−2

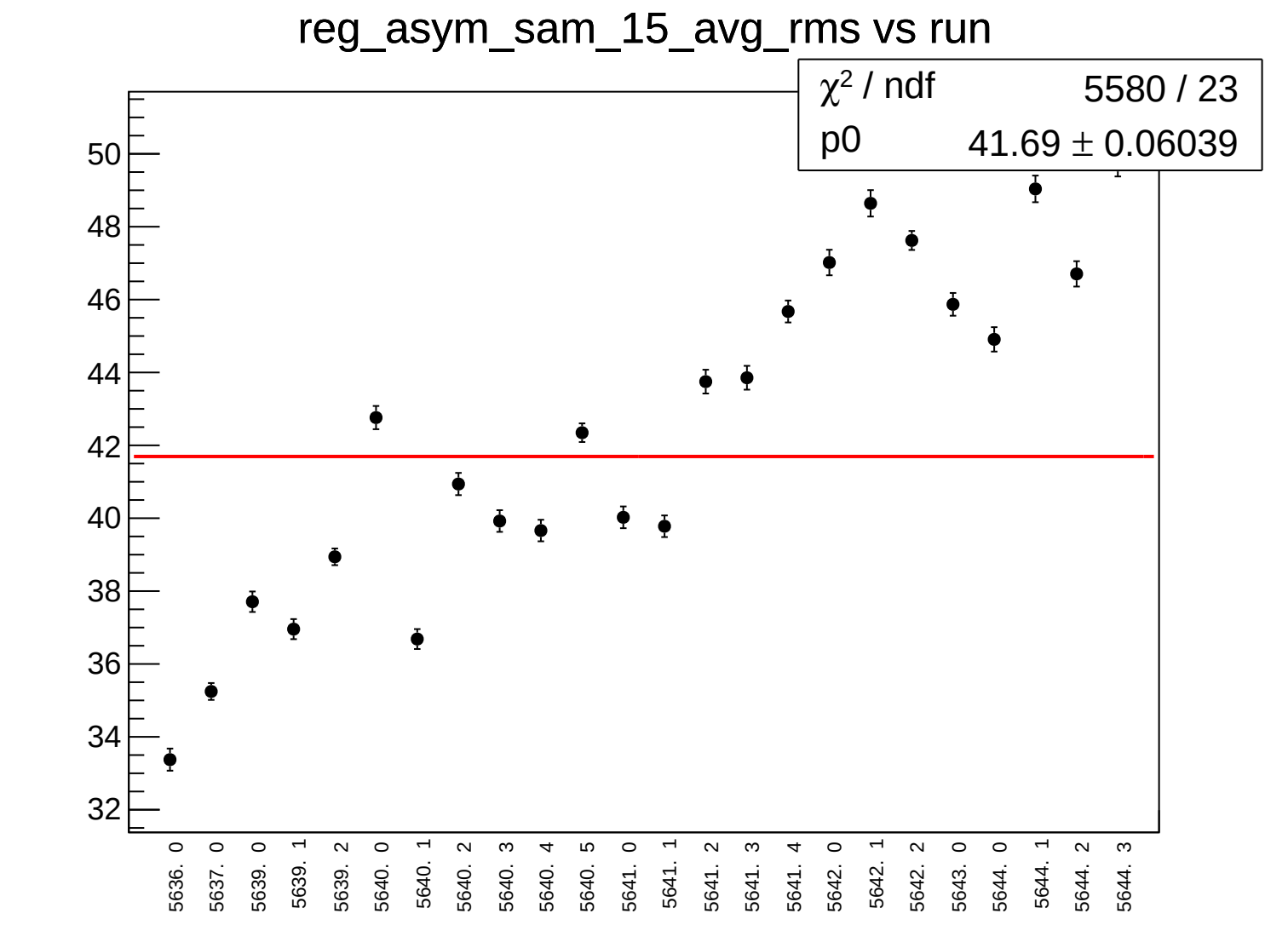

pull1D
Entries 24
Mean −0.1176
Std Dev 1.146
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

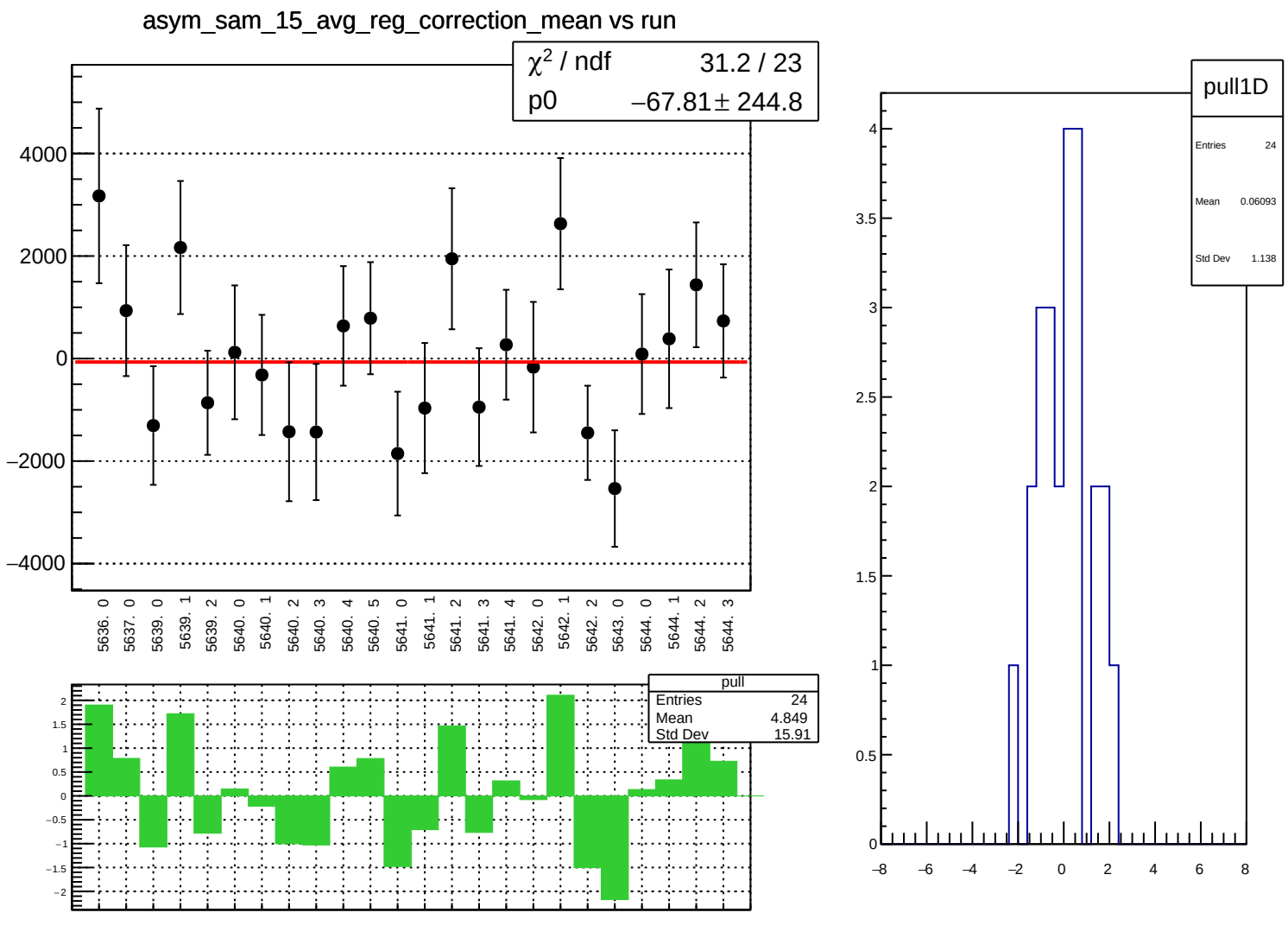

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.206e+05 / 23
p0 8.755e−12 ± 1.712e−14
90
80
70
60
50
40
30
20
10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

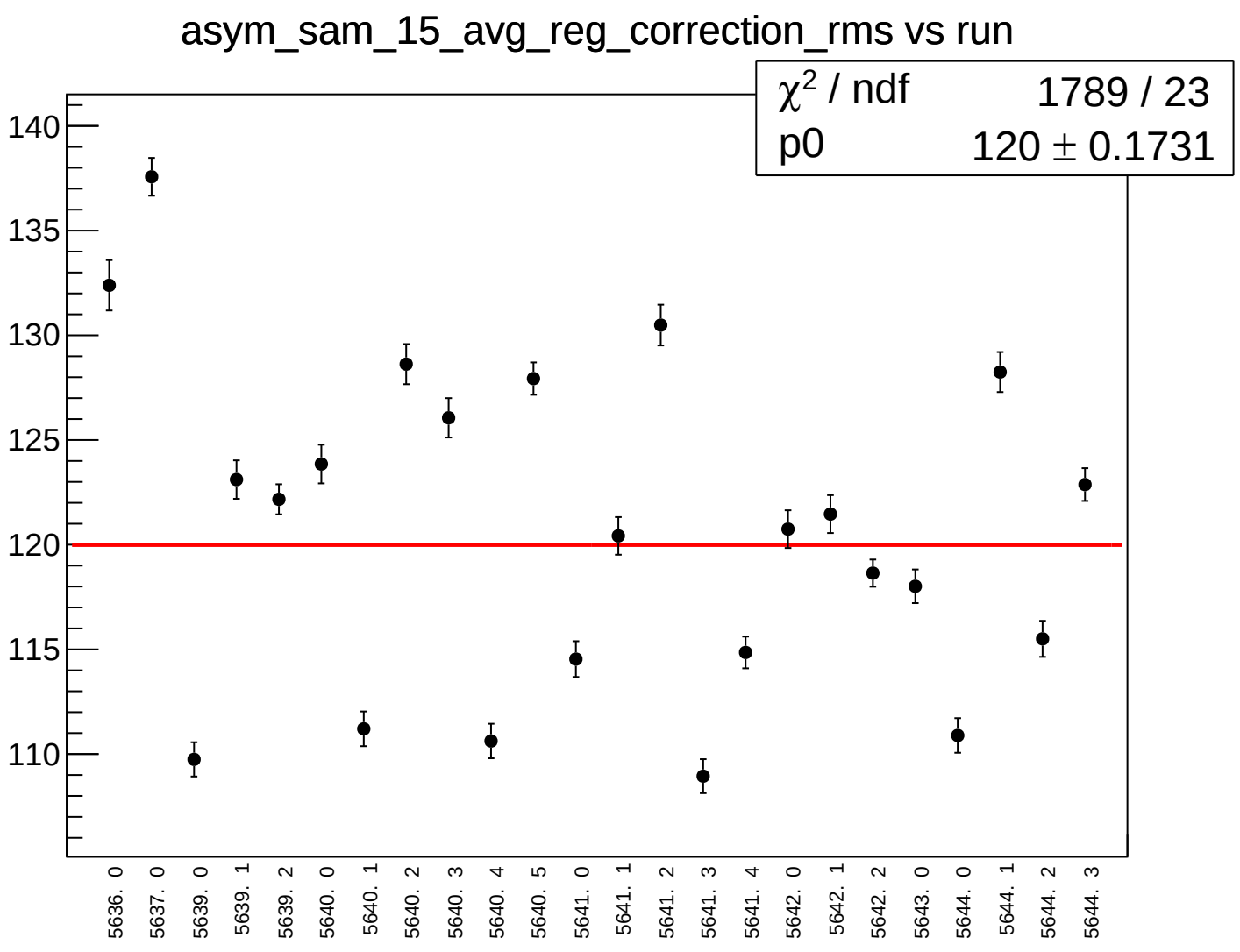

reg_asym_sam_15_avg_mean vs run
χ² / ndf 30.76 / 23
p0 −2.248 ± 85.41
1500
1000
500
0
−500
−1000
−1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

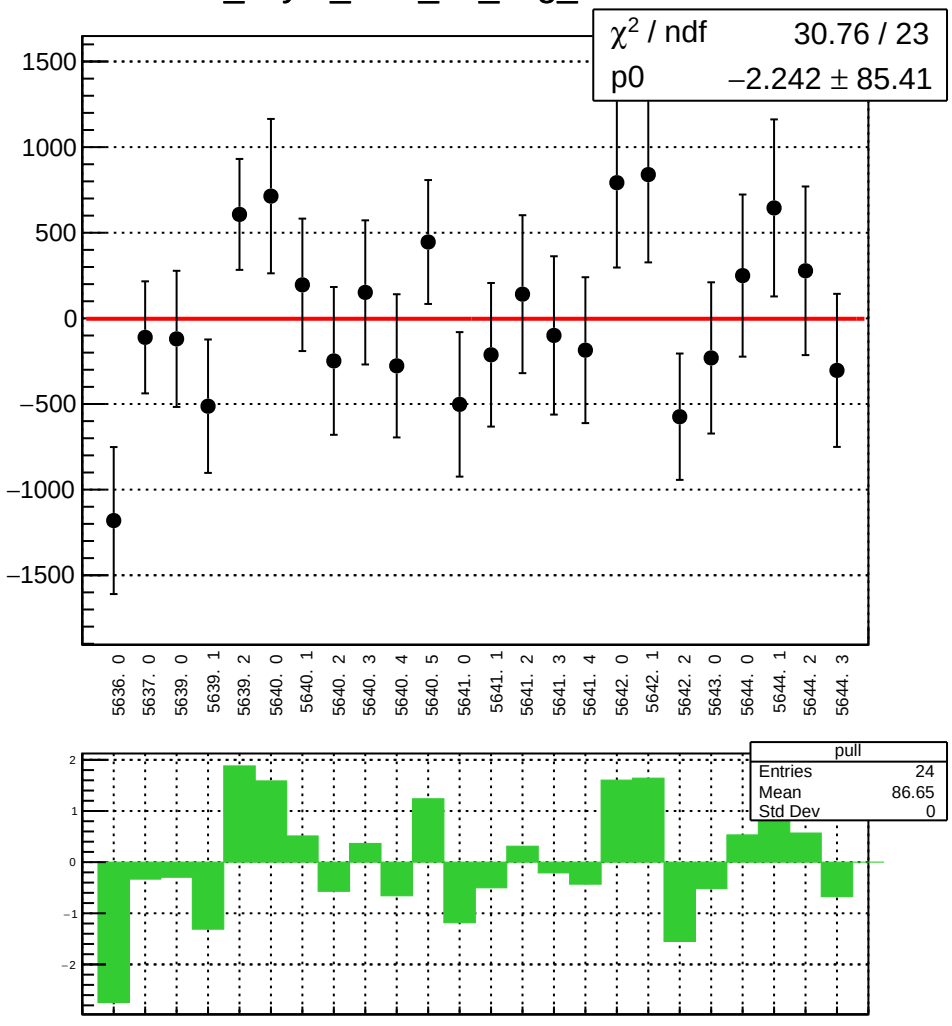

pull
Entries 24
Mean 86.65
Std Dev 0
2
1
0
−1
−2

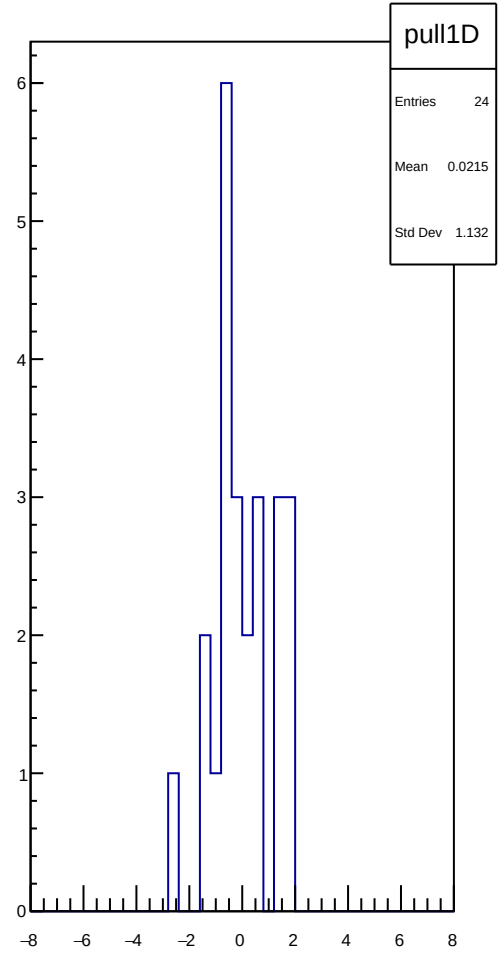

pull1D
Entries 24
Mean 0.0215
Std Dev 1.132
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

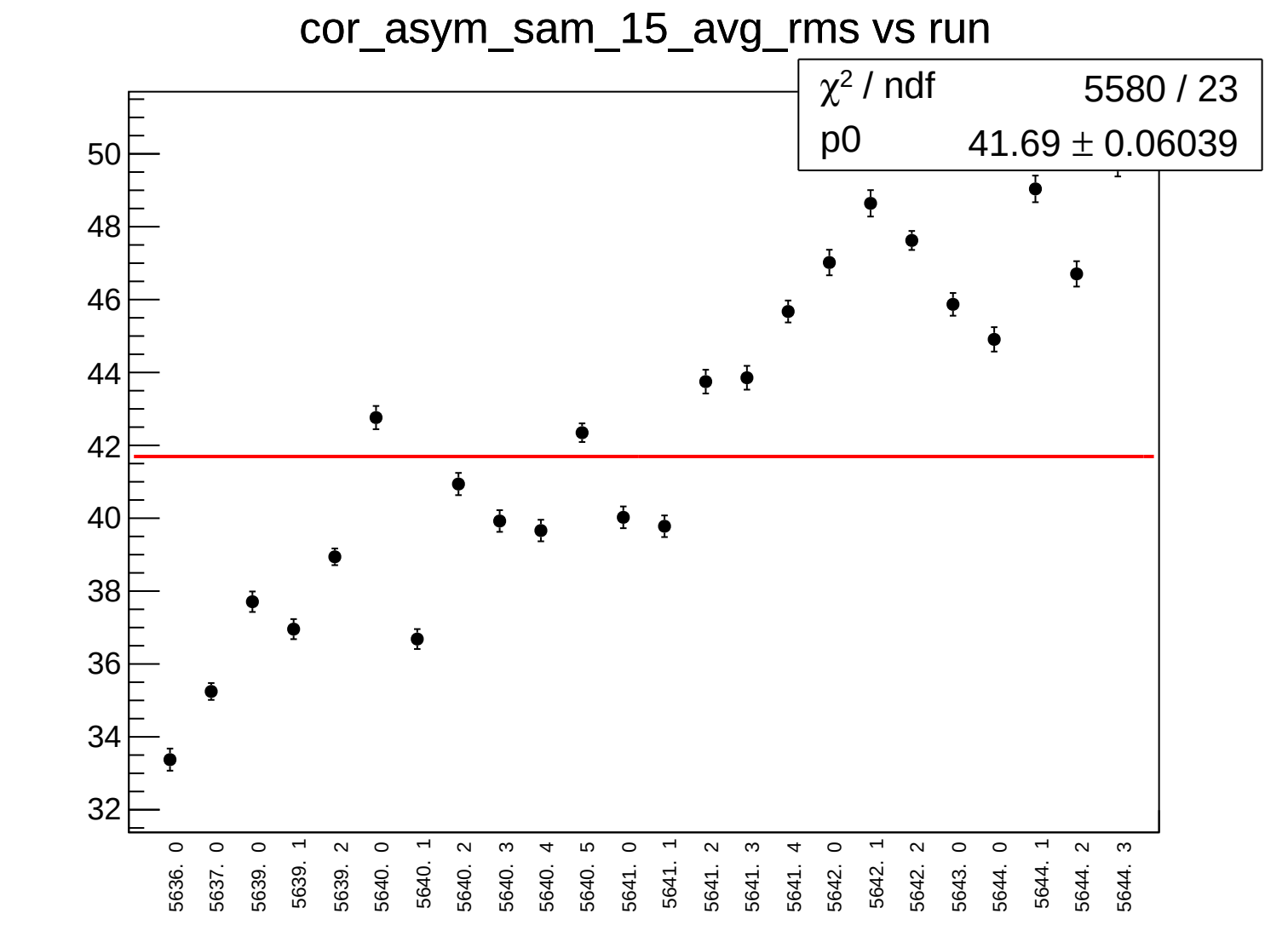

reg_asym_sam_15_avg_rms vs run
χ² / ndf 5580 / 23
p0 41.69 ± 0.06039
50
48
46
44
42
40
38
36
34
32
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

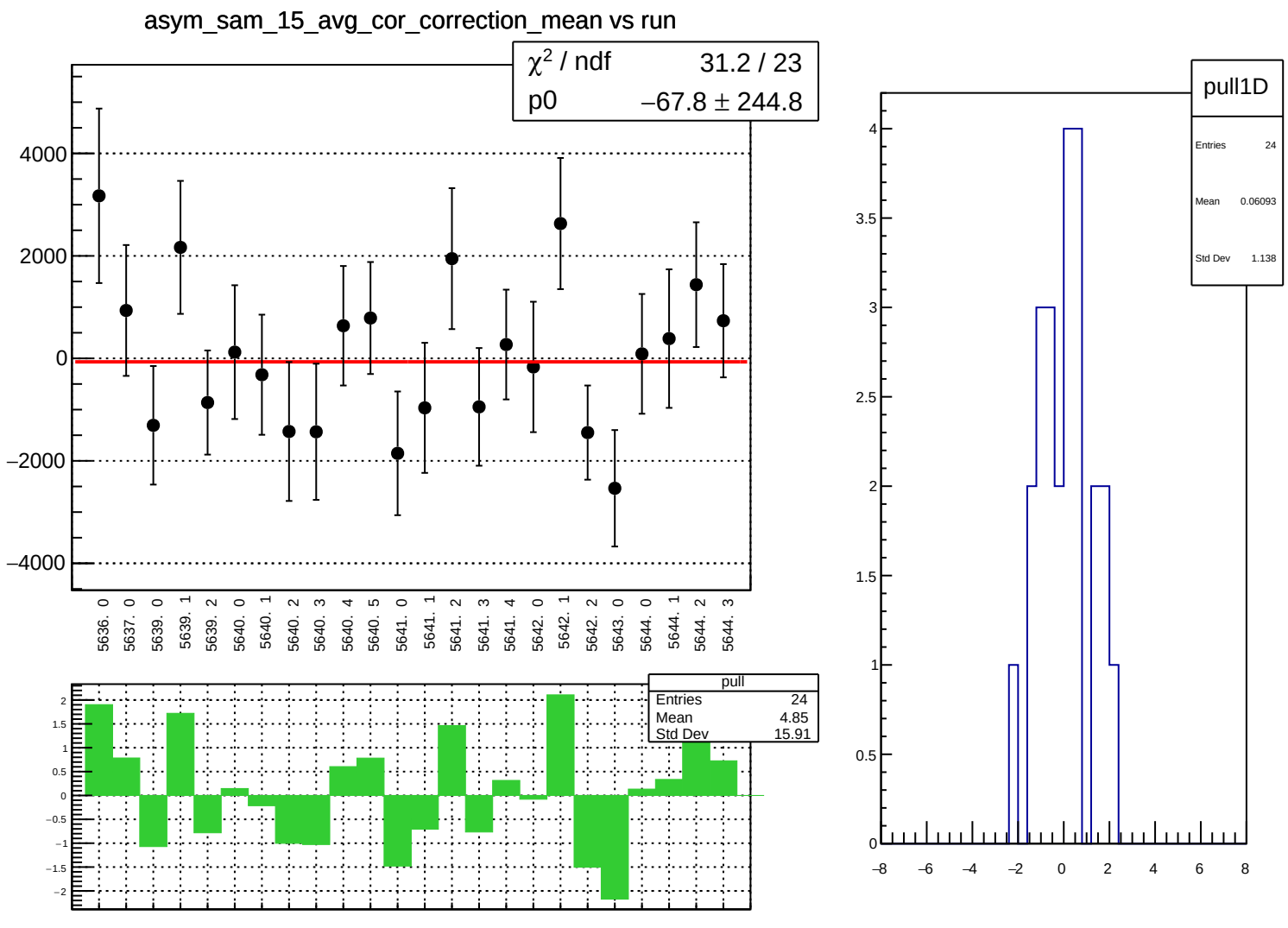

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 31.2 / 23
p0 −67.81 ± 244.8
4000
2000
0
−2000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 4.849
Std Dev 15.91
pull1D
Entries 24
Mean 0.06093
Std Dev 1.138

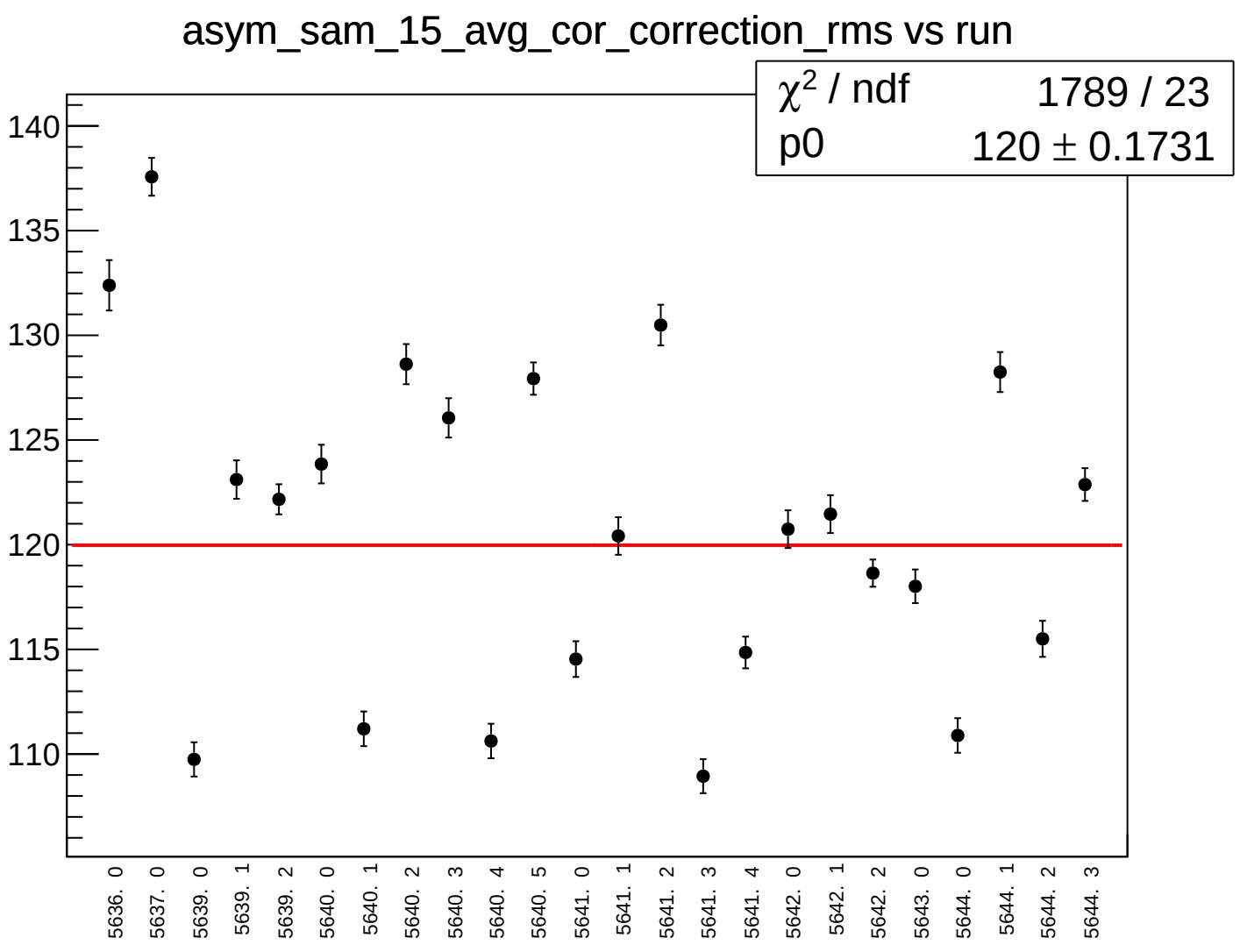

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 1789 / 23
p0 120 ± 0.1731
140
135
130
125
120
115
110
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

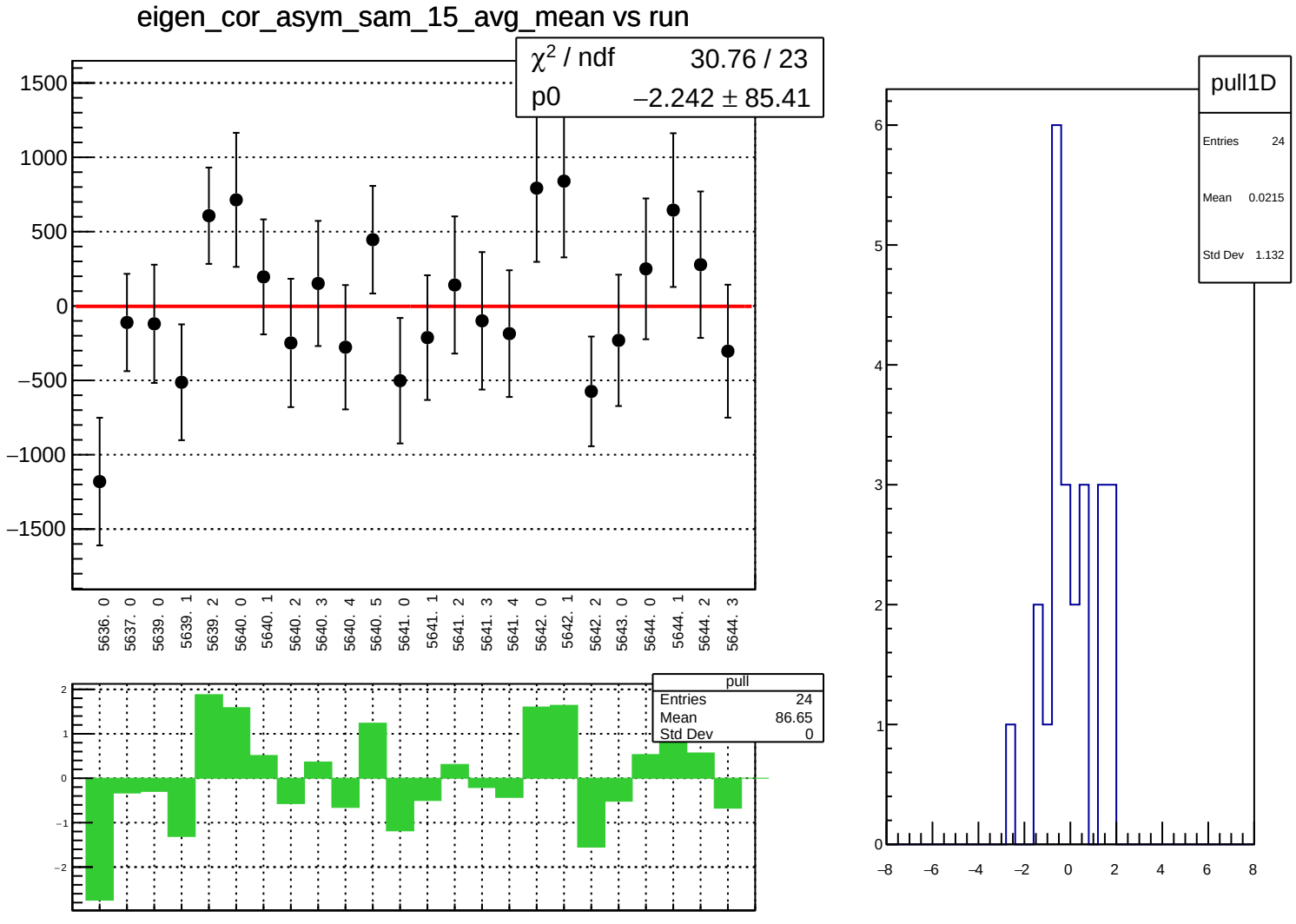

cor_asym_sam_15_avg_mean vs run
χ² / ndf 30.76 / 23
p0 −2.242 ± 85.41
1500
1000
500
0
−500
−1000
−1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 86.65
Std Dev 0
2
1
0
−1
−2

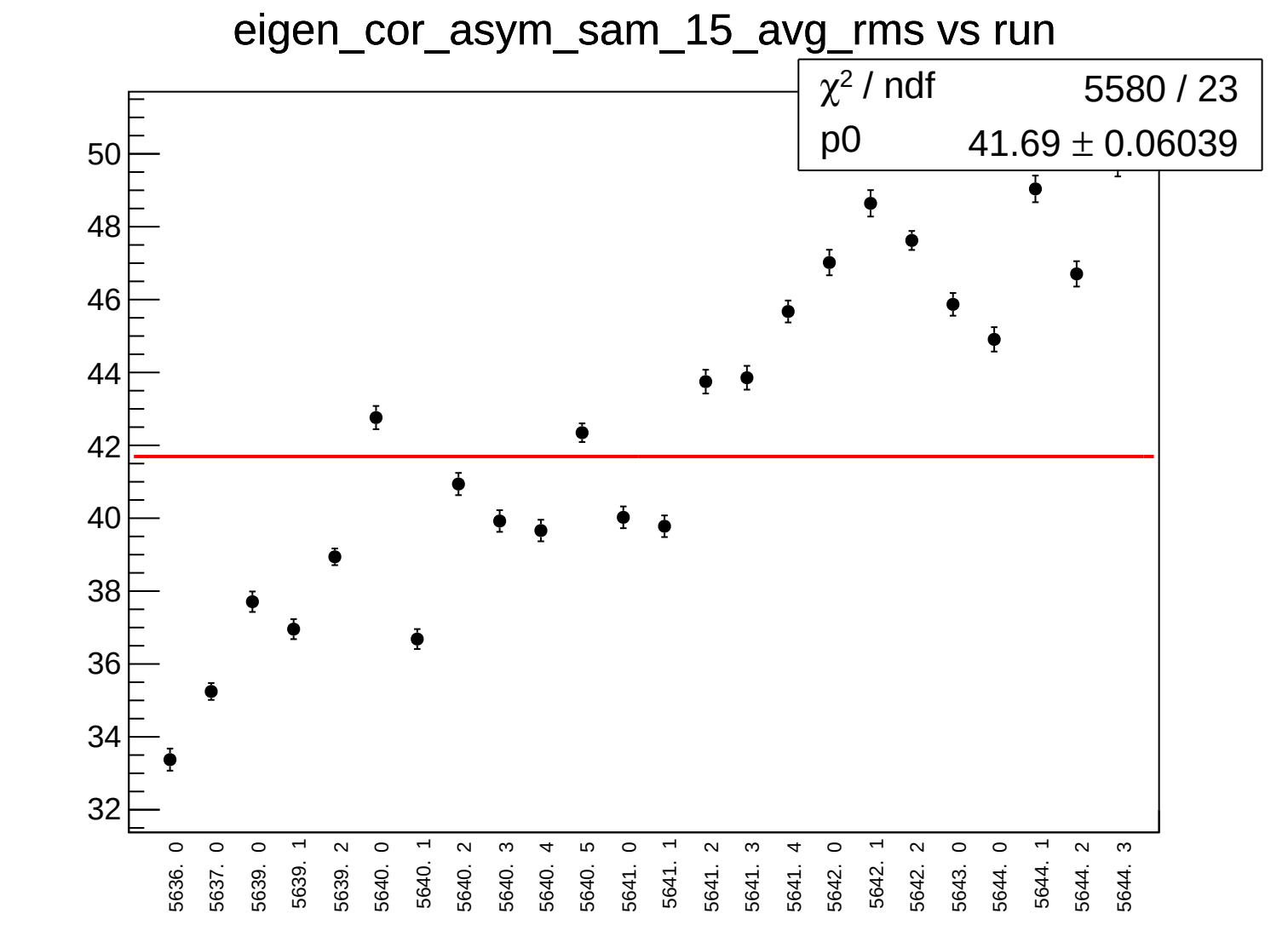

pull1D
Entries 24
Mean 0.0215
Std Dev 1.132
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

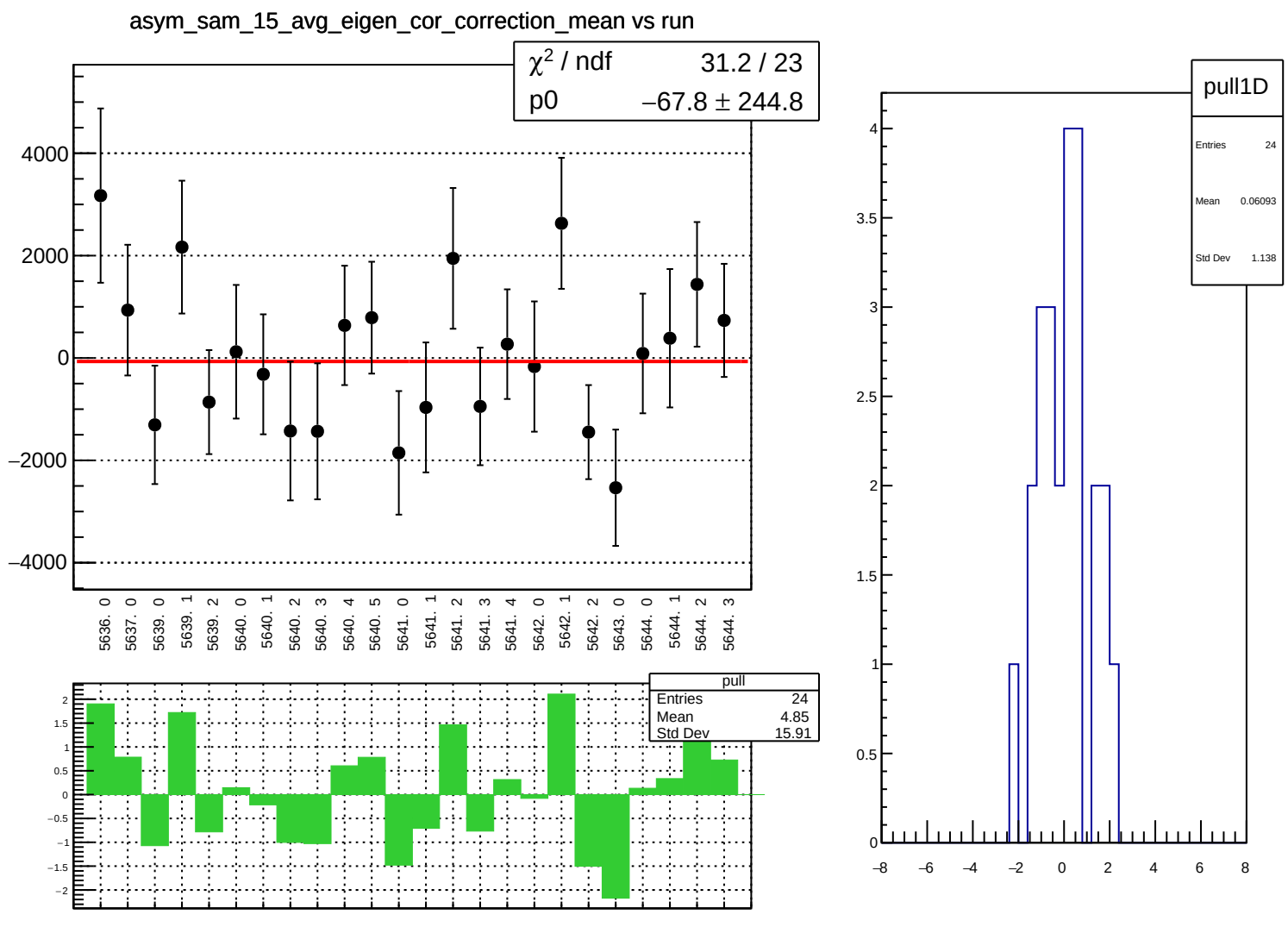

cor_asym_sam_15_avg_rms vs run
χ² / ndf 5580 / 23
p0 41.69 ± 0.06039
50
48
46
44
42
40
38
36
34
32
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

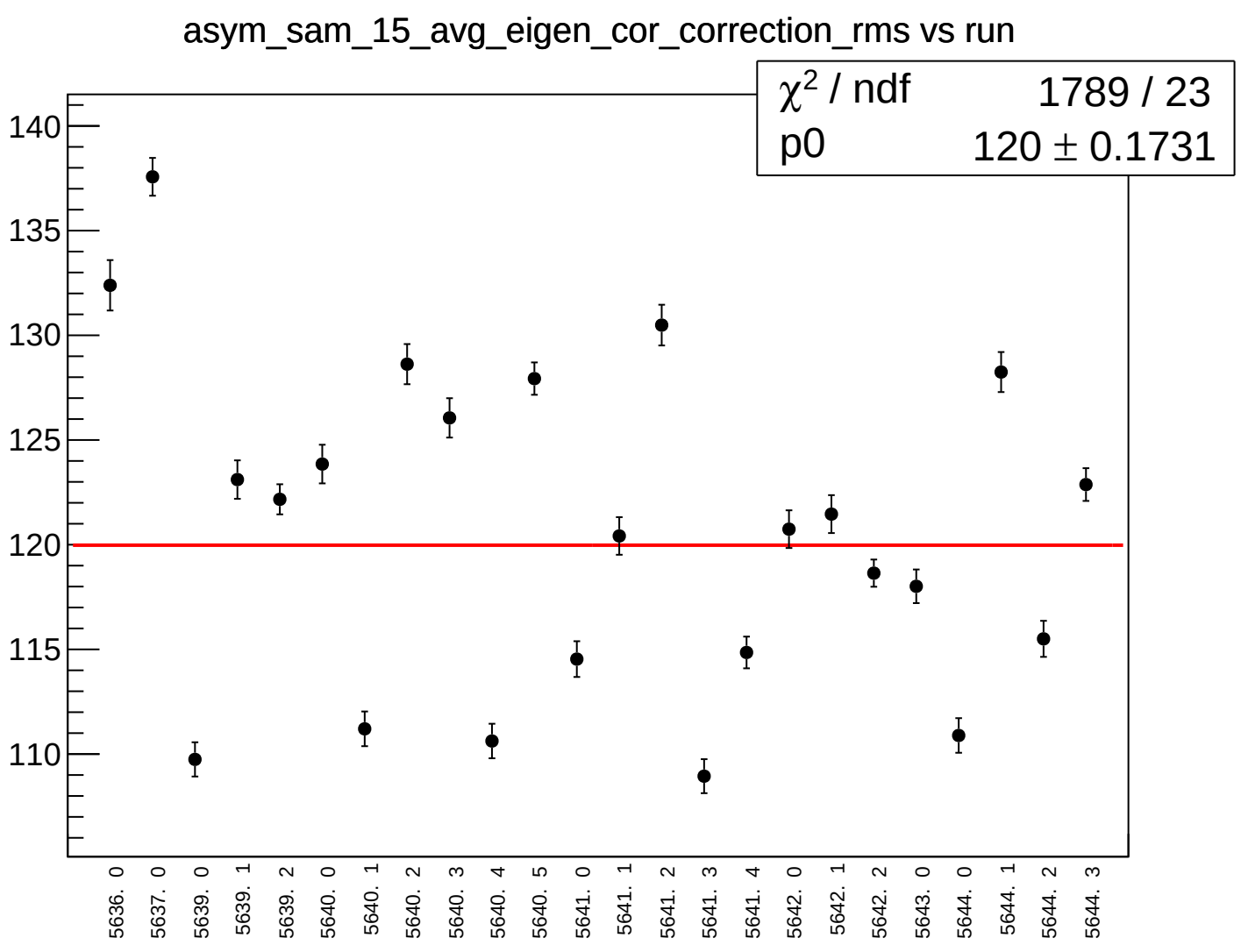

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 31.2 / 23
p0 −67.8 ± 244.8
4000
2000
0
−2000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 4.85
Std Dev 15.91
pull1D
Entries 24
Mean 0.06093
Std Dev 1.138

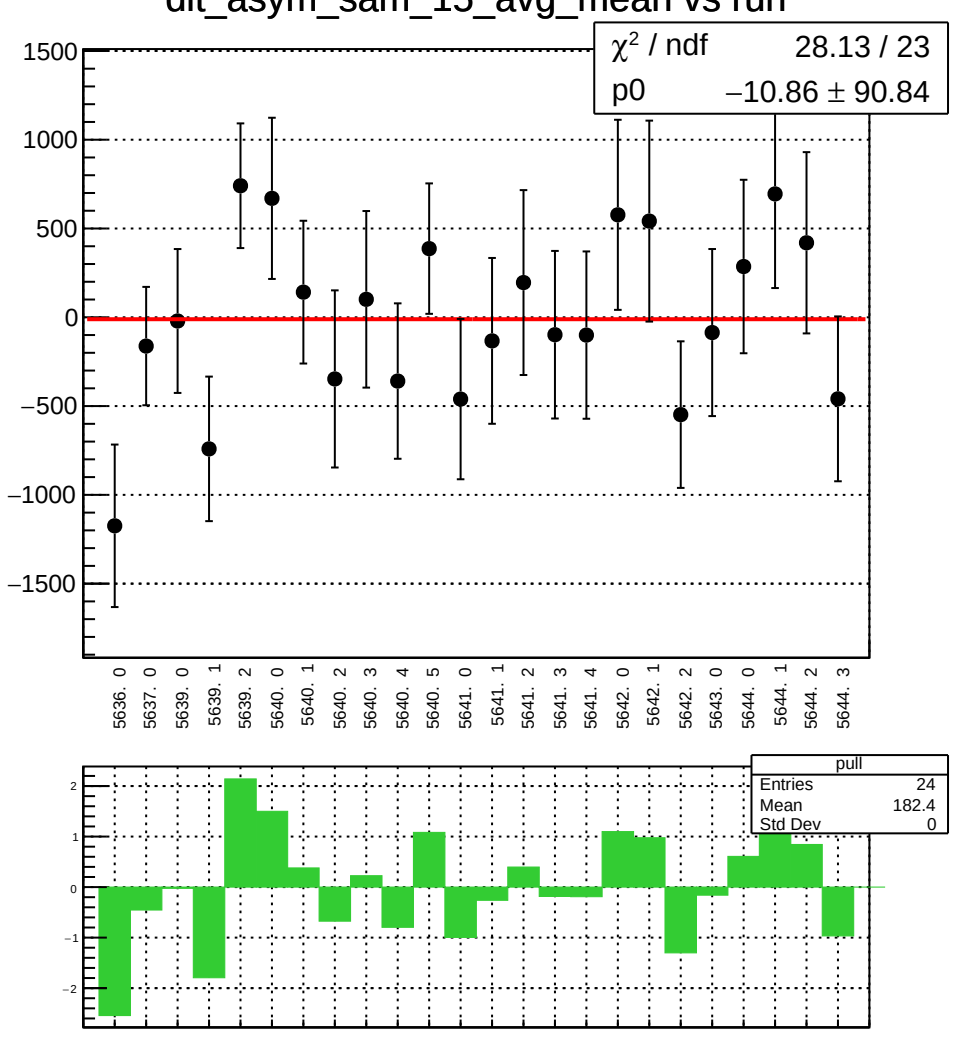

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 1789 / 23
p0 120 ± 0.1731
140
135
130
125
120
115
110
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

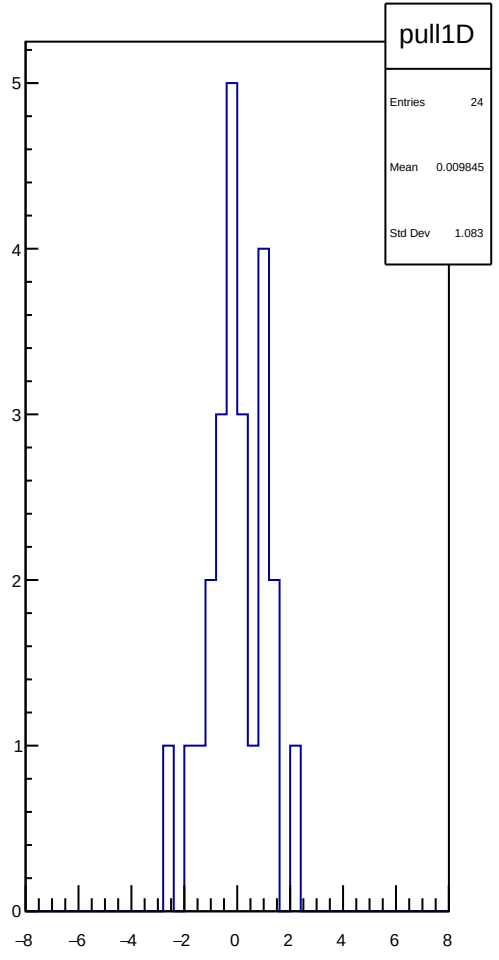

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 30.76 / 23
p0 −2.242 ± 85.41
1500
1000
500
0
−500
−1000
−1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 86.65
Std Dev 0
pull1D
Entries 24
Mean 0.0215
Std Dev 1.132

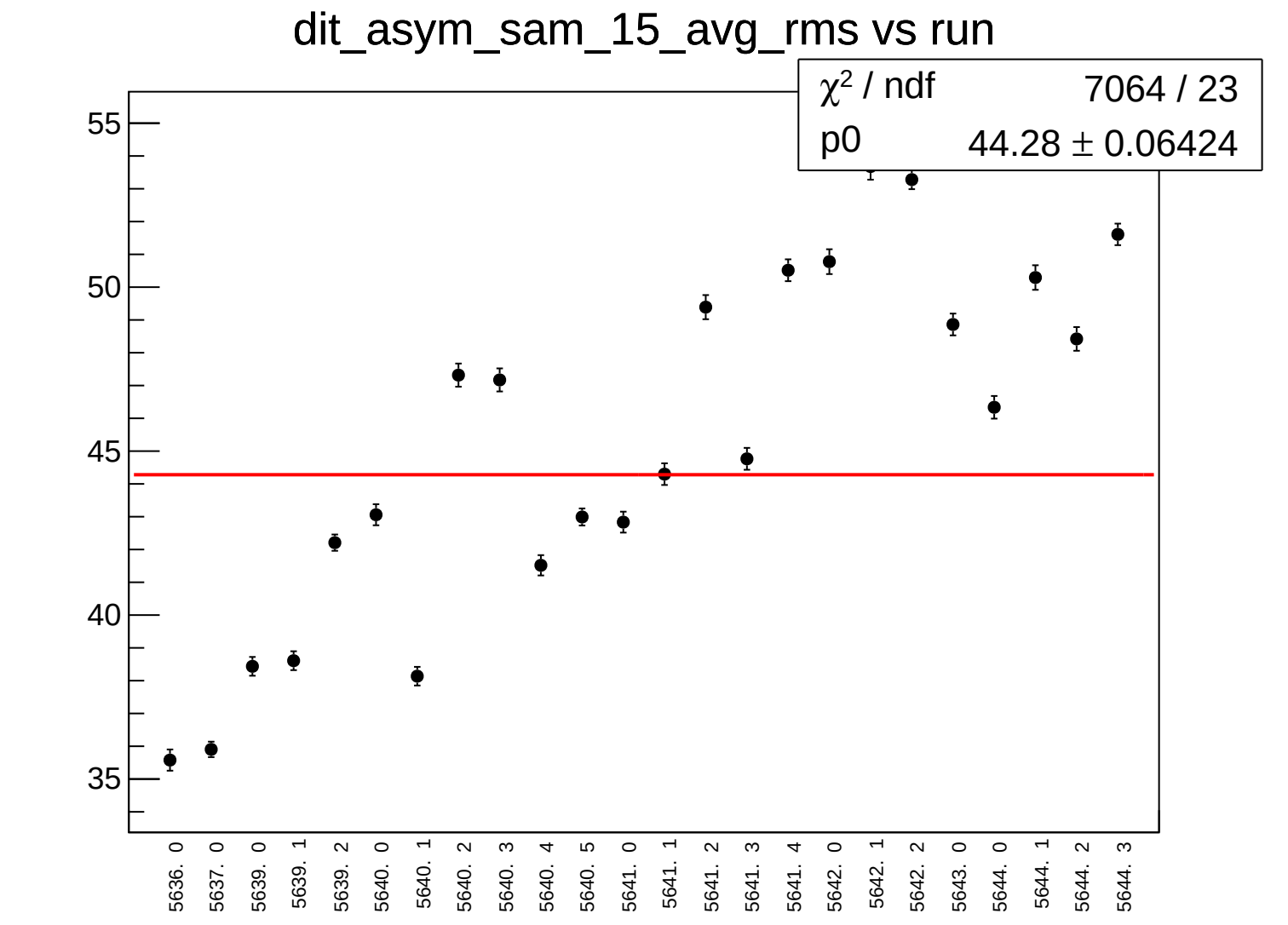

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 5580 / 23
p0 41.69 ± 0.06039
50
48
46
44
42
40
38
36
34
32
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

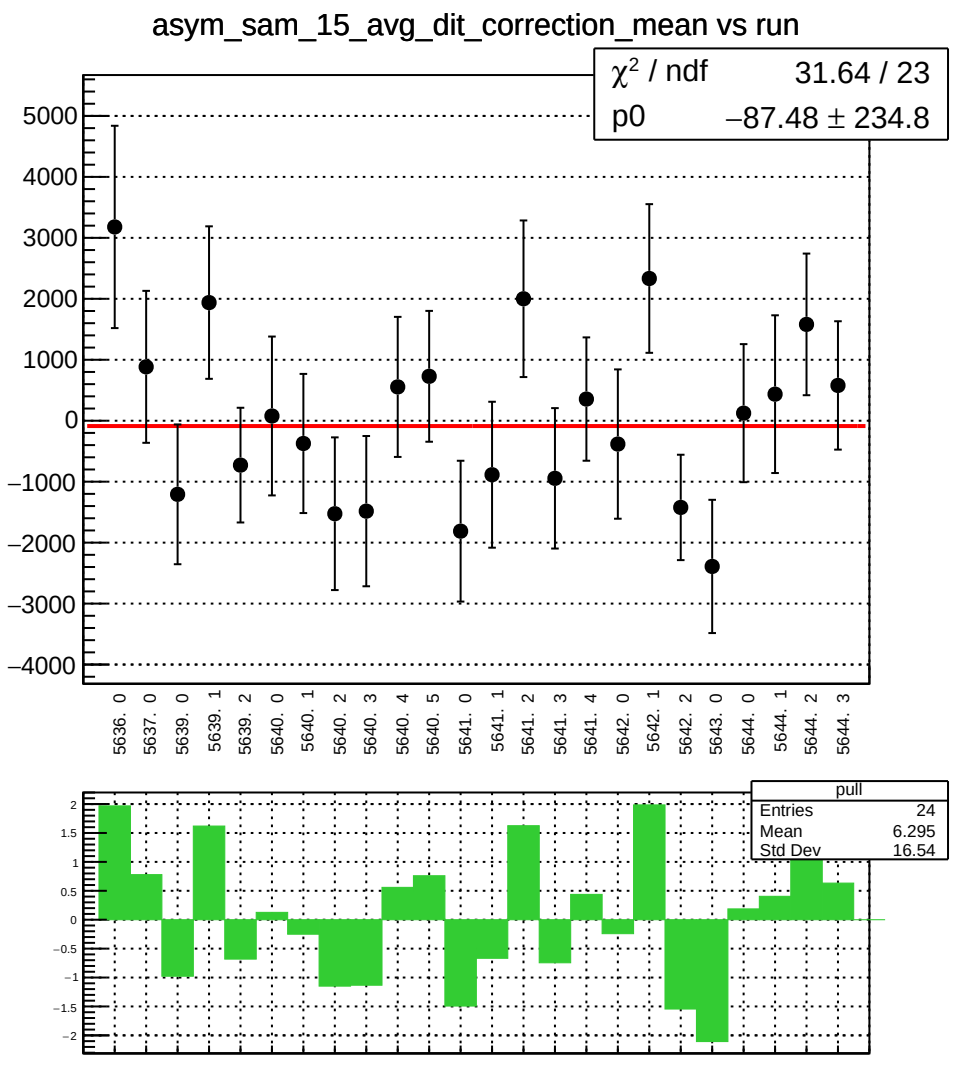

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 31.2 / 23
p0 −67.8 ± 244.8
4000
2000
0
−2000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 4.85
Std Dev 15.91
pull1D
Entries 24
Mean 0.06093
Std Dev 1.138

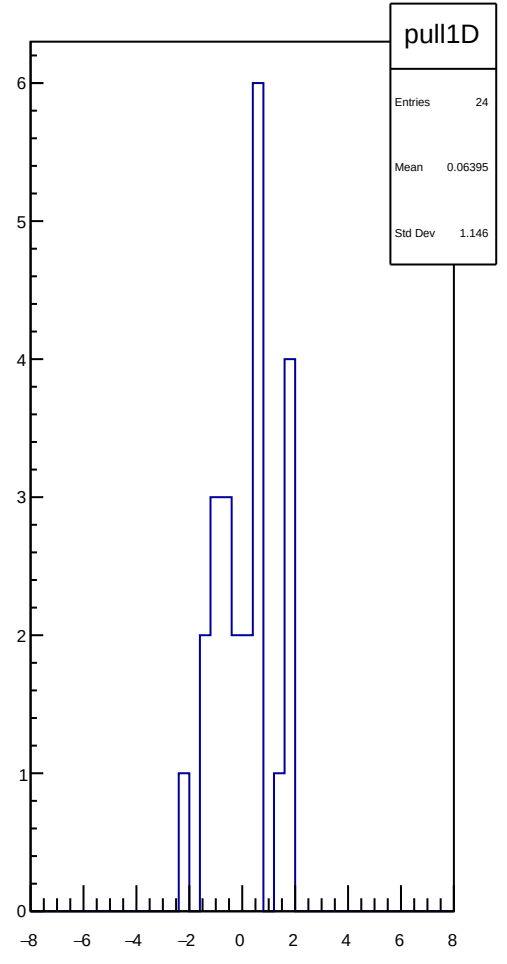

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 1789 / 23
p0 120 ± 0.1731
140
135
130
125
120
115
110
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

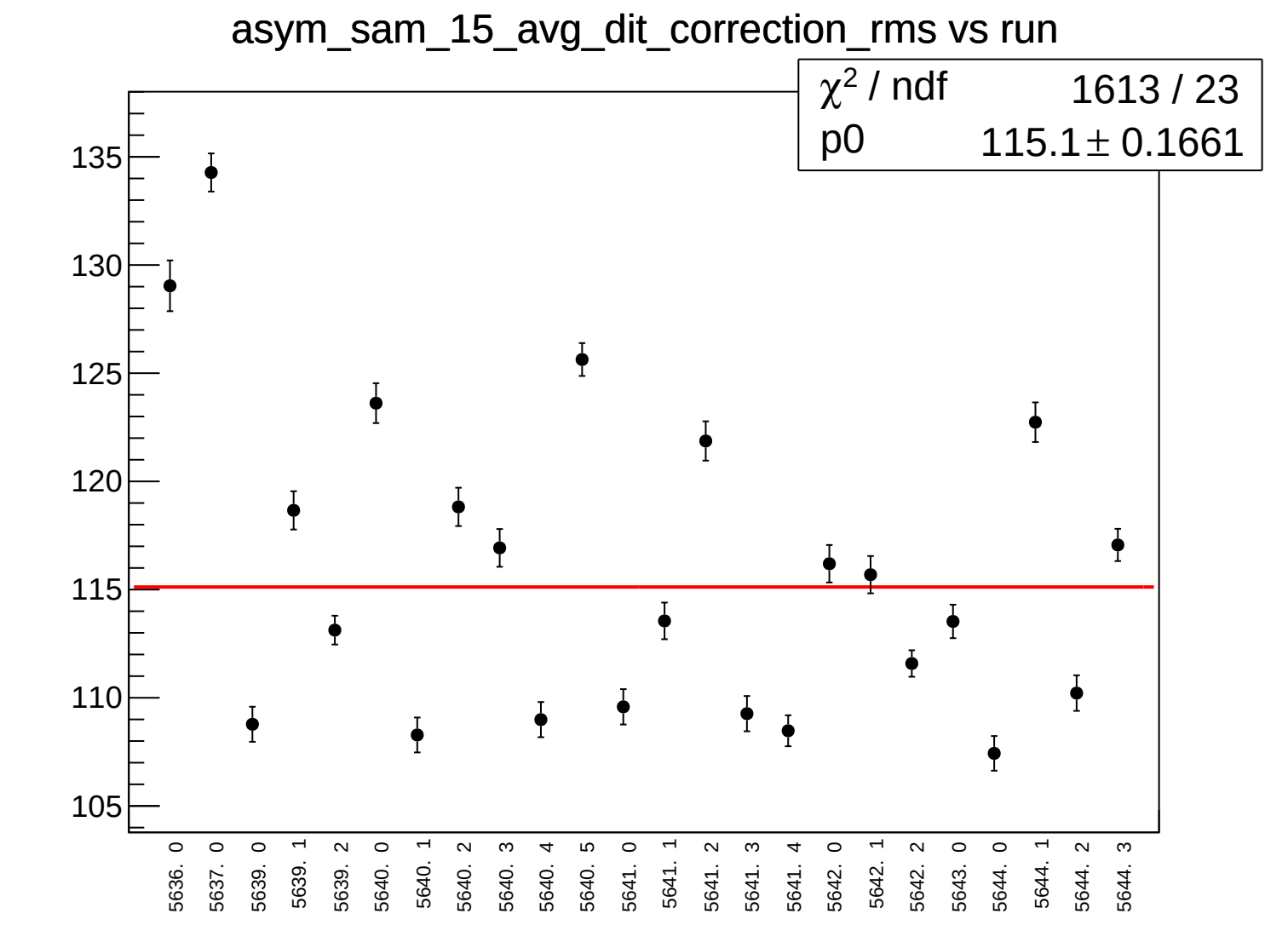

dit_asym_sam_15_avg_mean vs run
χ² / ndf 28.13 / 23
p0 −10.86 ± 90.84
1500
1000
500
0
−500
−1000
−1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 182.4
Std Dev 0
2
1
0
−1
−2

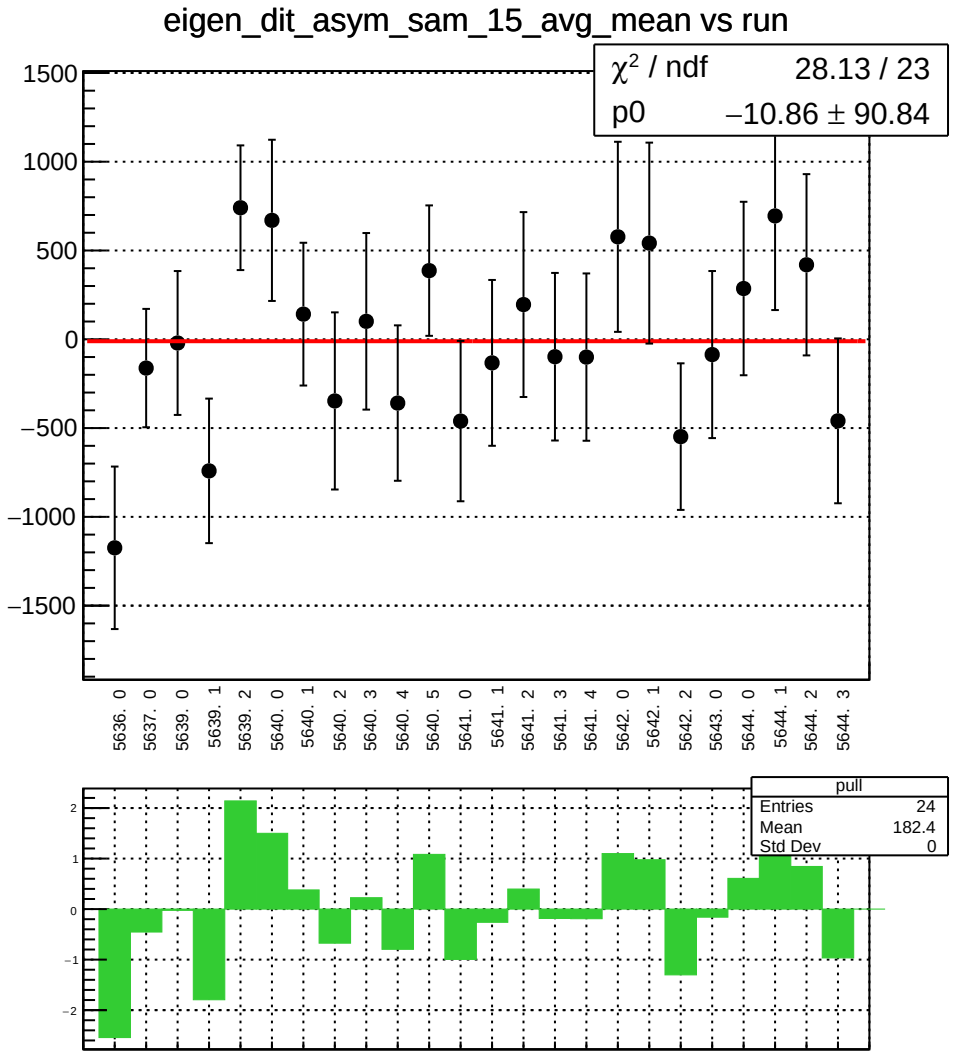

pull1D
Entries 24
Mean 0.009845
Std Dev 1.083
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

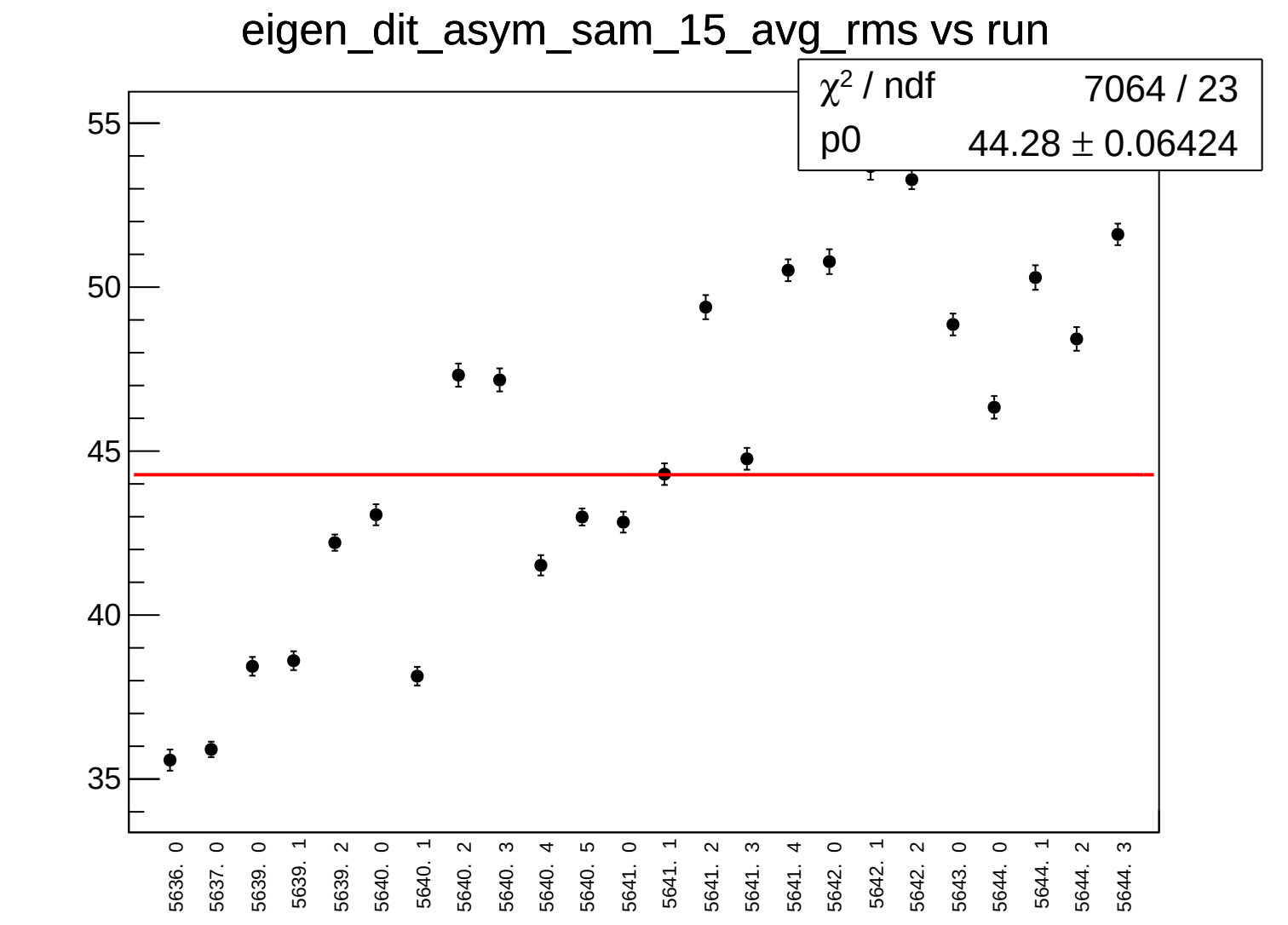

dit_asym_sam_15_avg_rms vs run
χ² / ndf 7064 / 23
p0 44.28 ± 0.06424
55
50
45
40
35
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

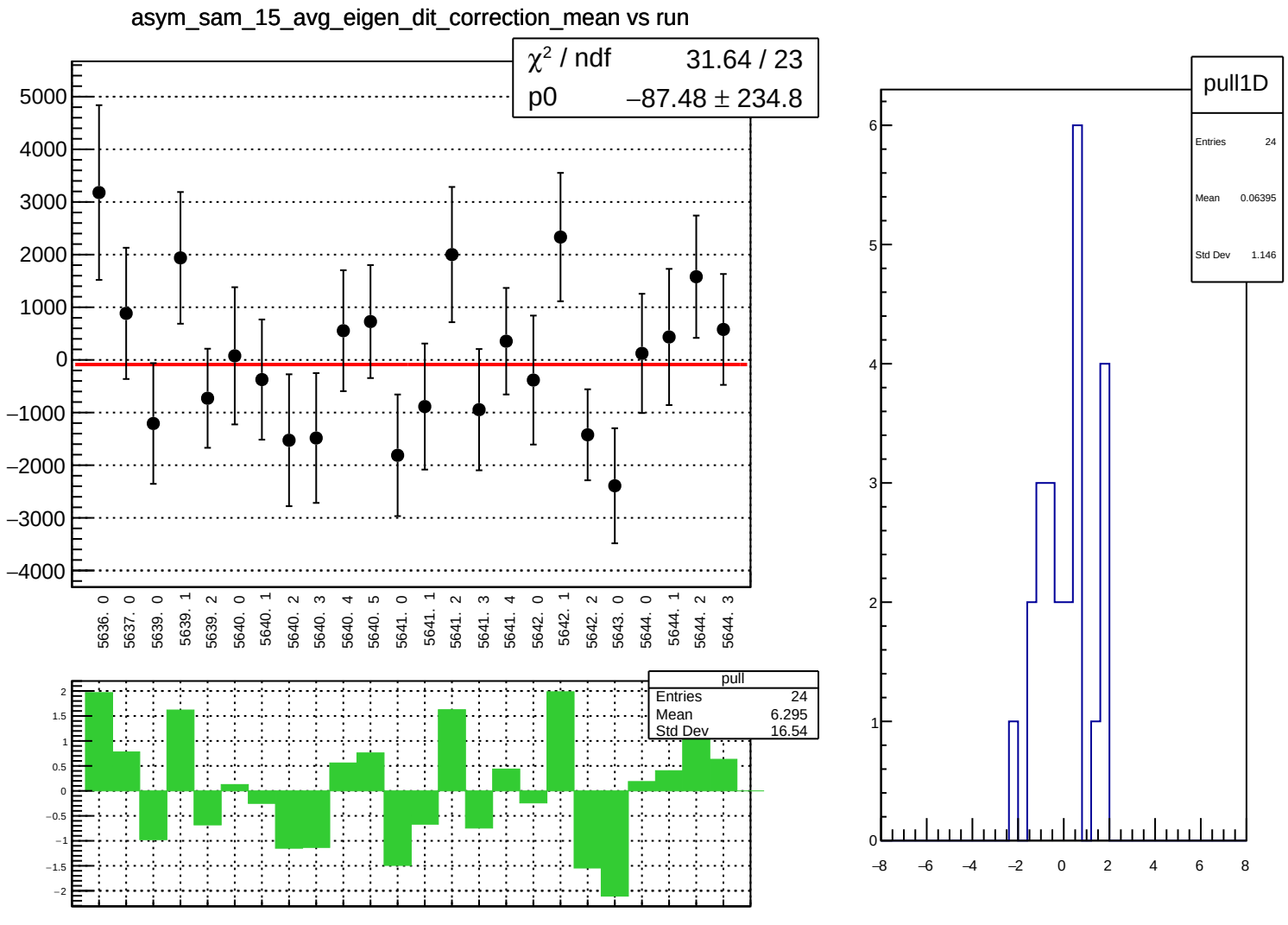

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 31.64 / 23
p0 −87.48 ± 234.8
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 6.295
Std Dev 16.54
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

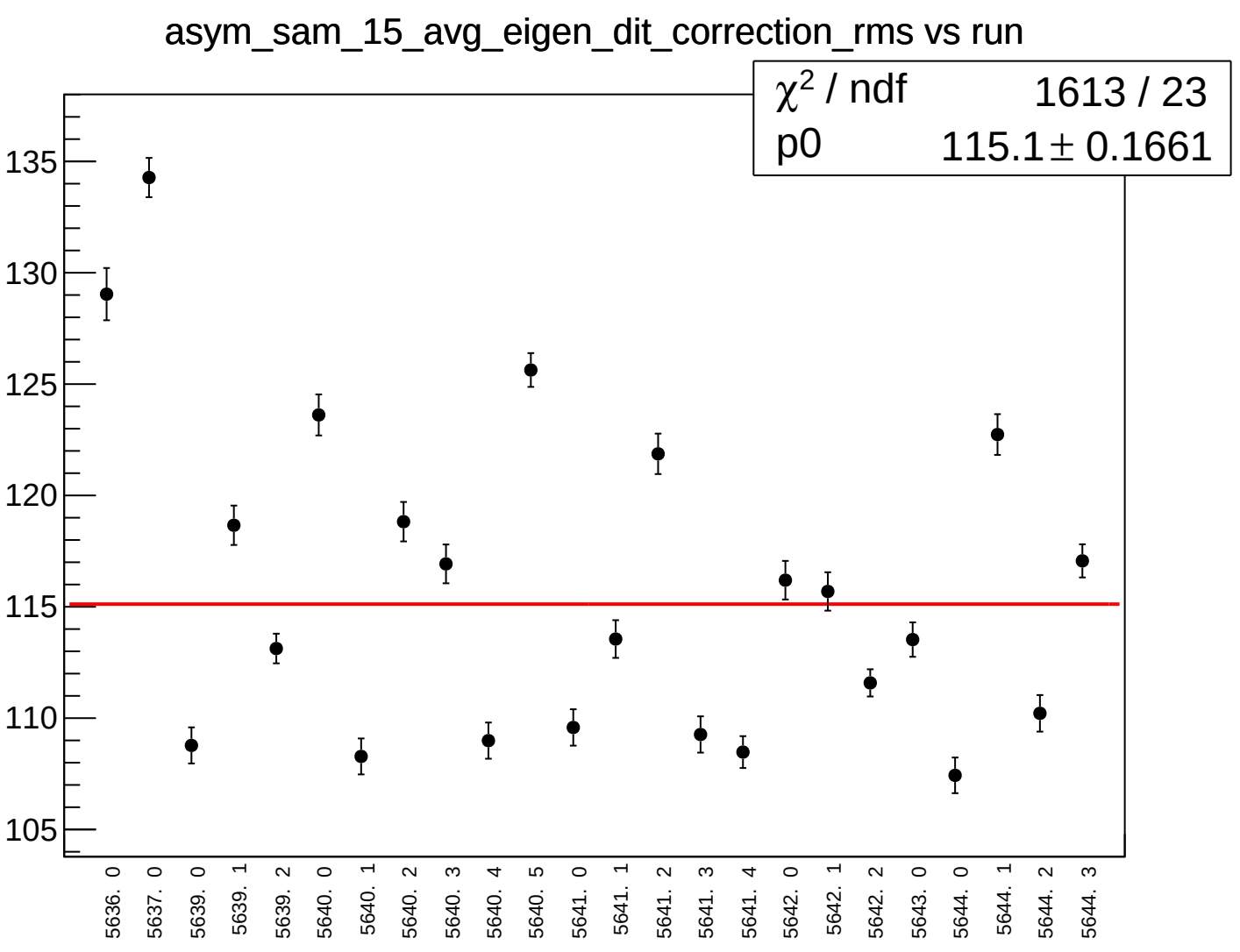

pull1D
Entries 24
Mean 0.06395
Std Dev 1.146
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

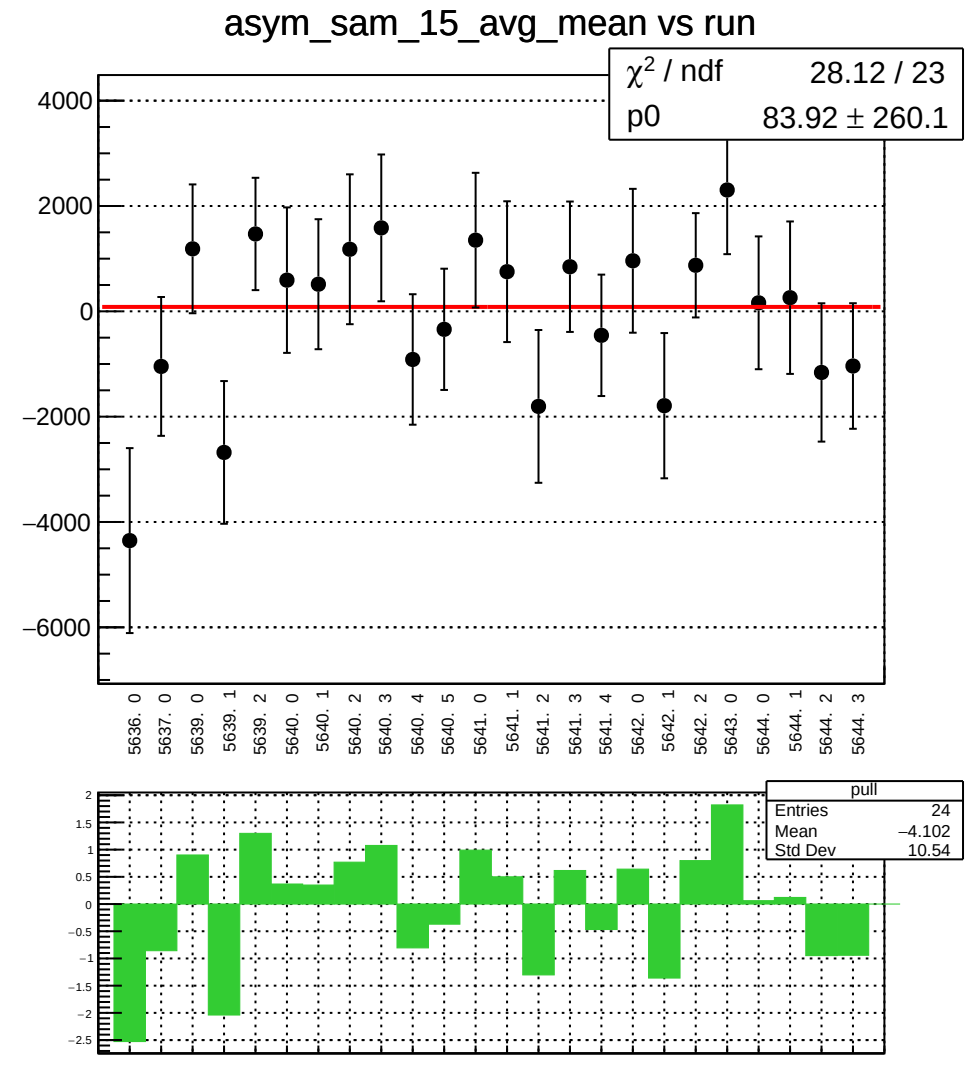

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 1613 / 23
p0 115.1 ± 0.1661
135
130
125
120
115
110
105
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

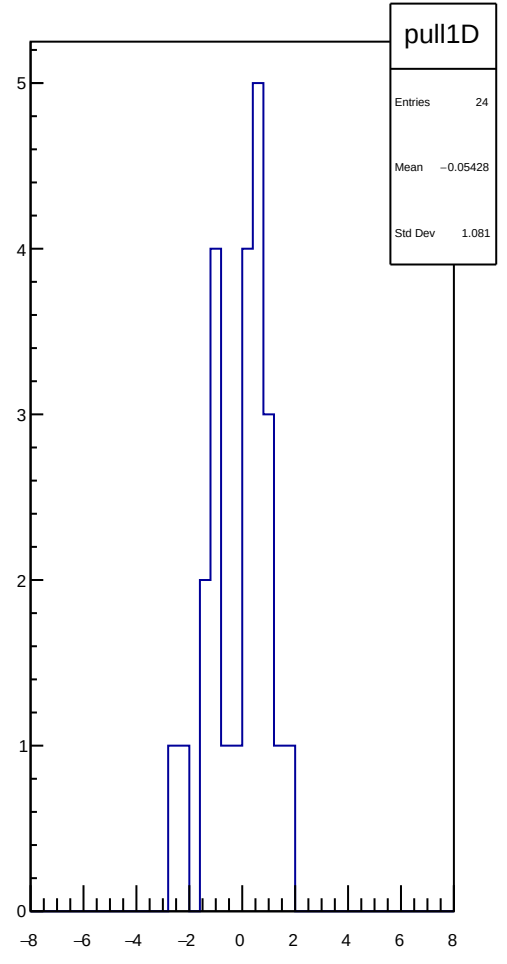

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 28.13 / 23
p0 −10.86 ± 90.84
1500
1000
500
0
−500
−1000
−1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 182.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 24
Mean 0.009845
Std Dev 1.083
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

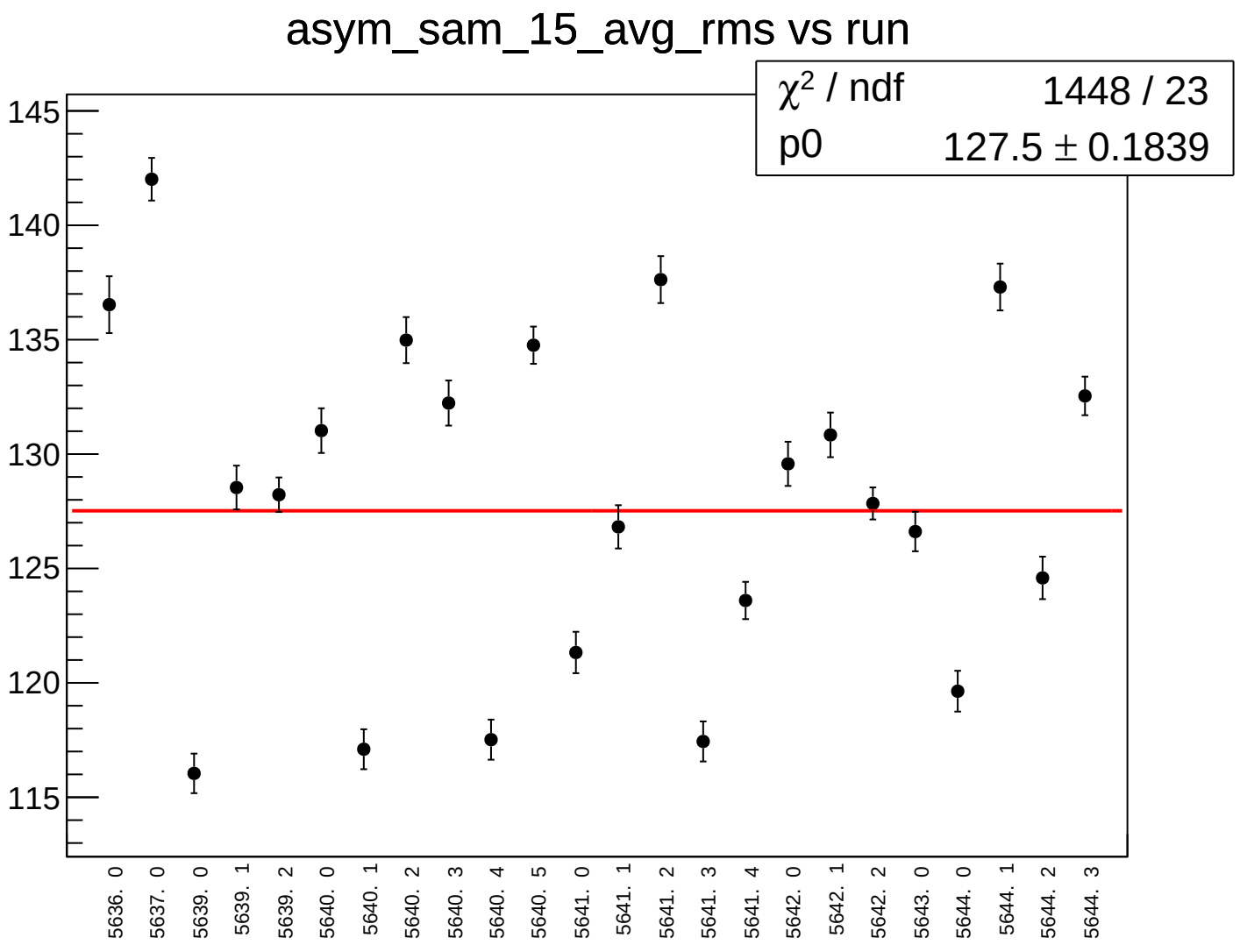

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 7064 / 23
p0 44.28 ± 0.06424
55
50
45
40
35
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

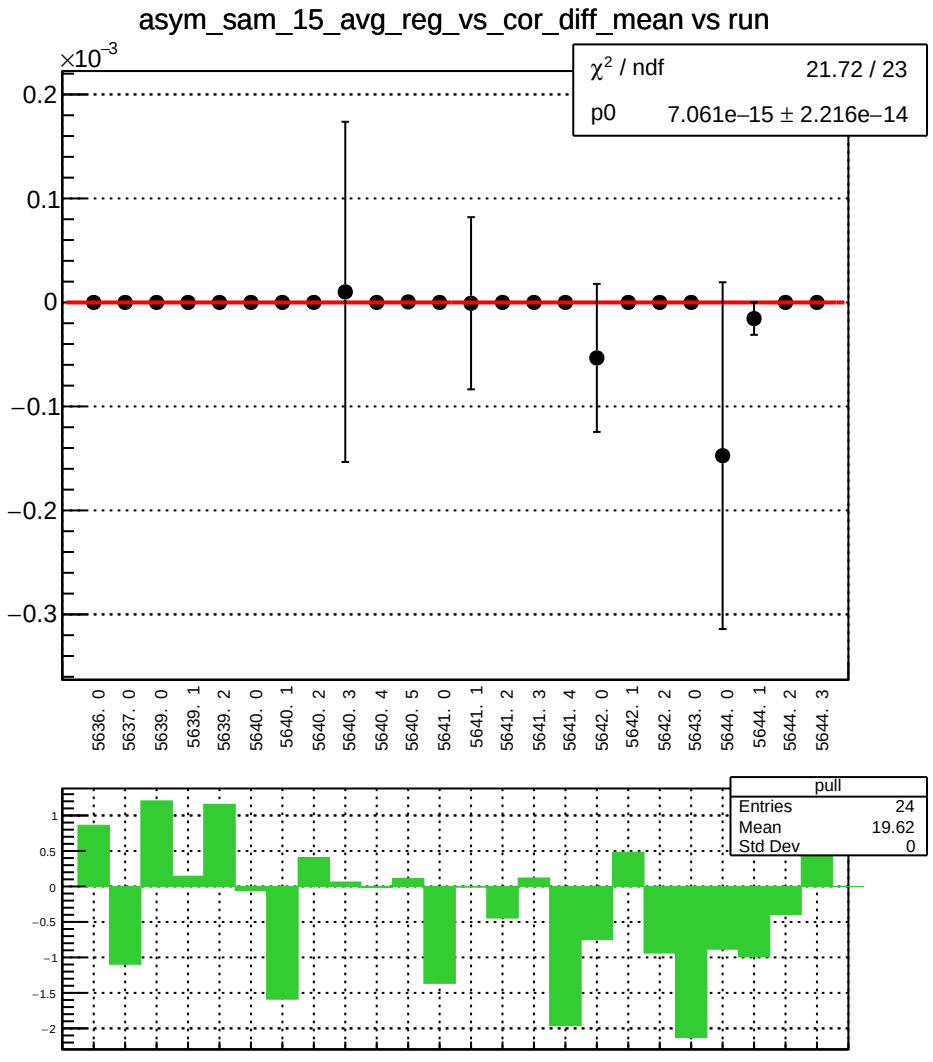

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 31.64 / 23
p0 −87.48 ± 234.8
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 6.295
Std Dev 16.54
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.06395
Std Dev 1.146
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

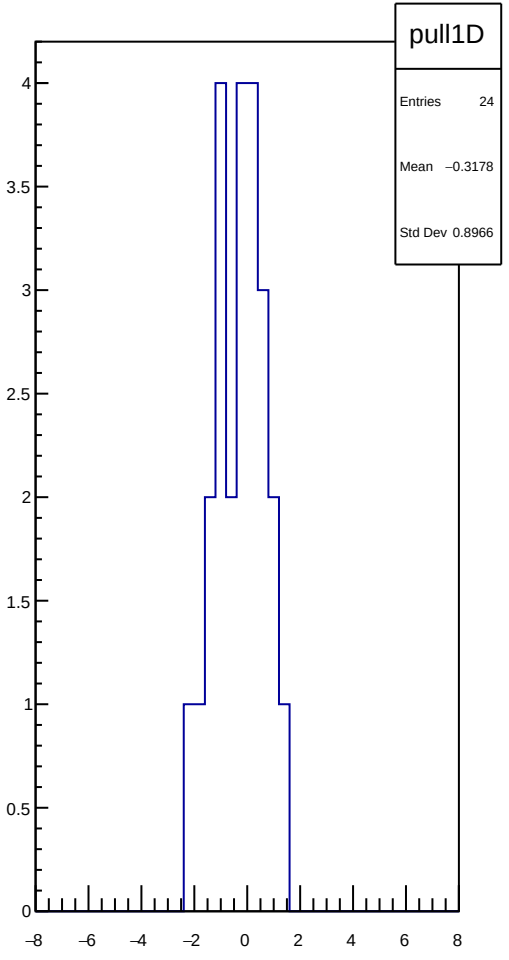

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 1613 / 23
p0 115.1 ± 0.1661
135
130
125
120
115
110
105
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

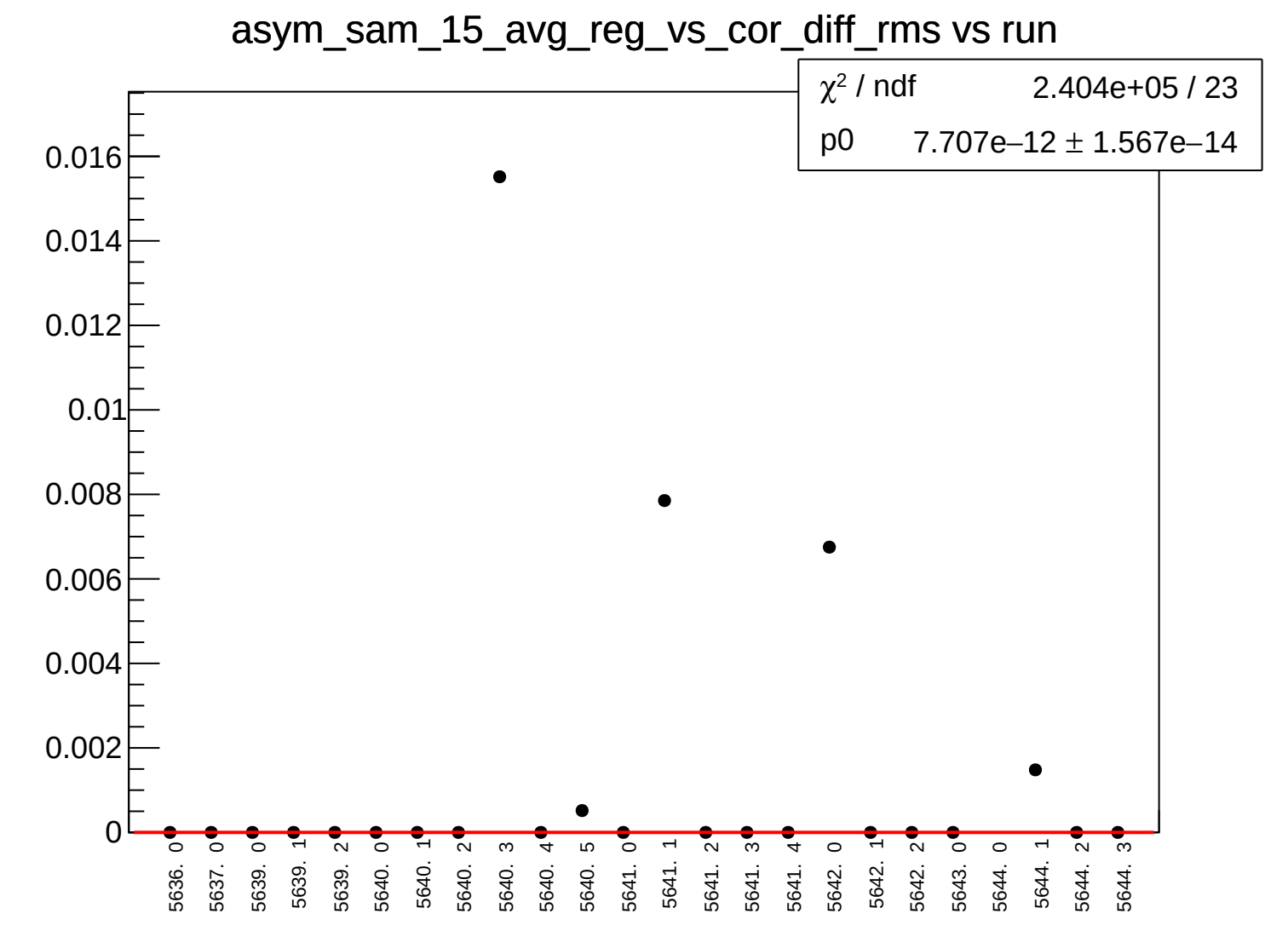

asym_sam_15_avg_mean vs run
χ² / ndf 28.12 / 23
p0 83.92 ± 260.1
4000
2000
0
−2000
−4000
−6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −4.102
Std Dev 10.54
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

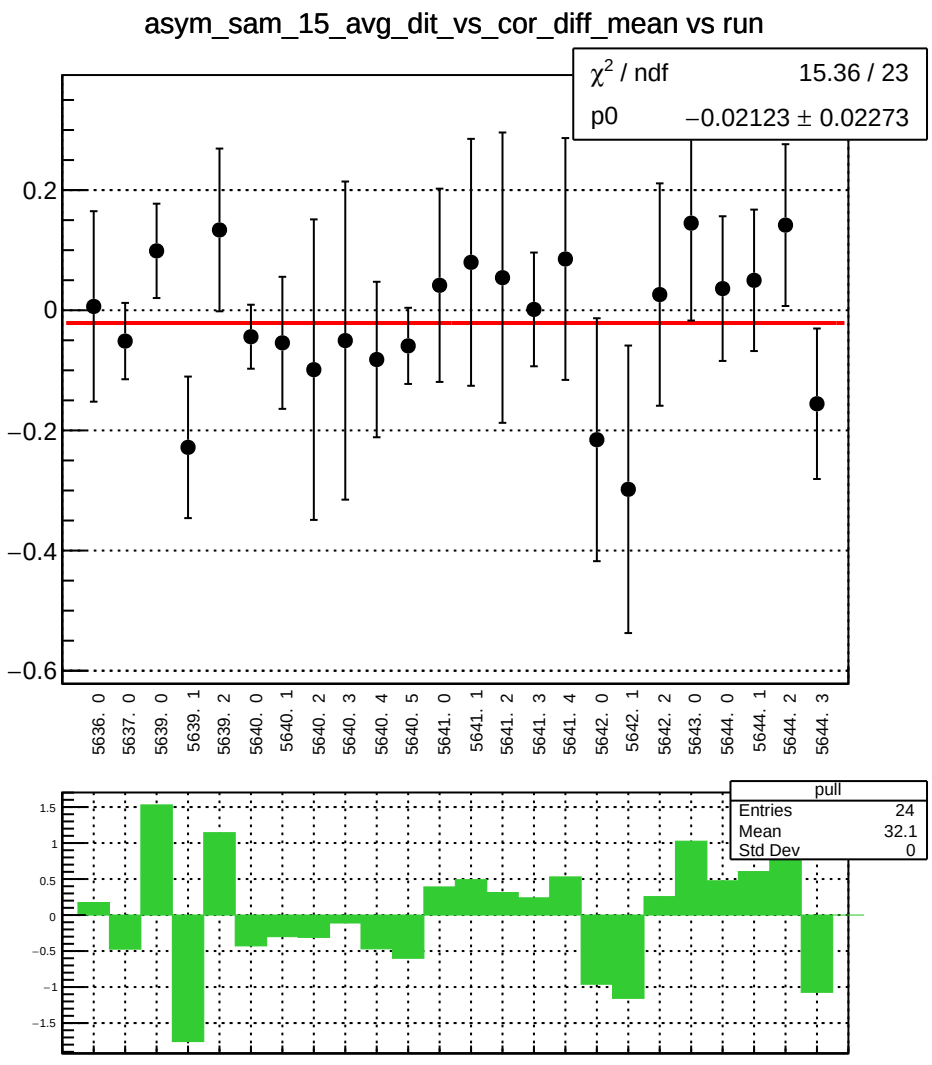

pull1D
Entries 24
Mean −0.05428
Std Dev 1.081
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

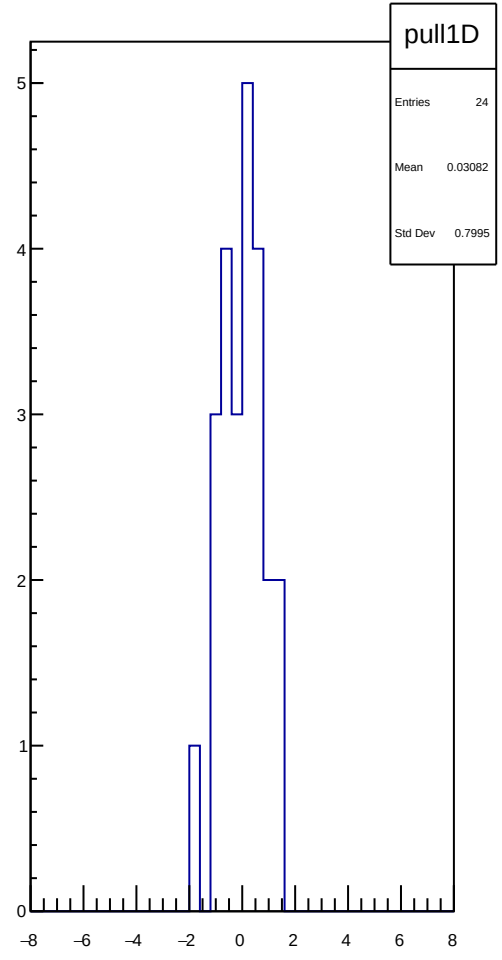

asym_sam_15_avg_rms vs run
χ² / ndf 1448 / 23
p0 127.5 ± 0.1839
145
140
135
130
125
120
115
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

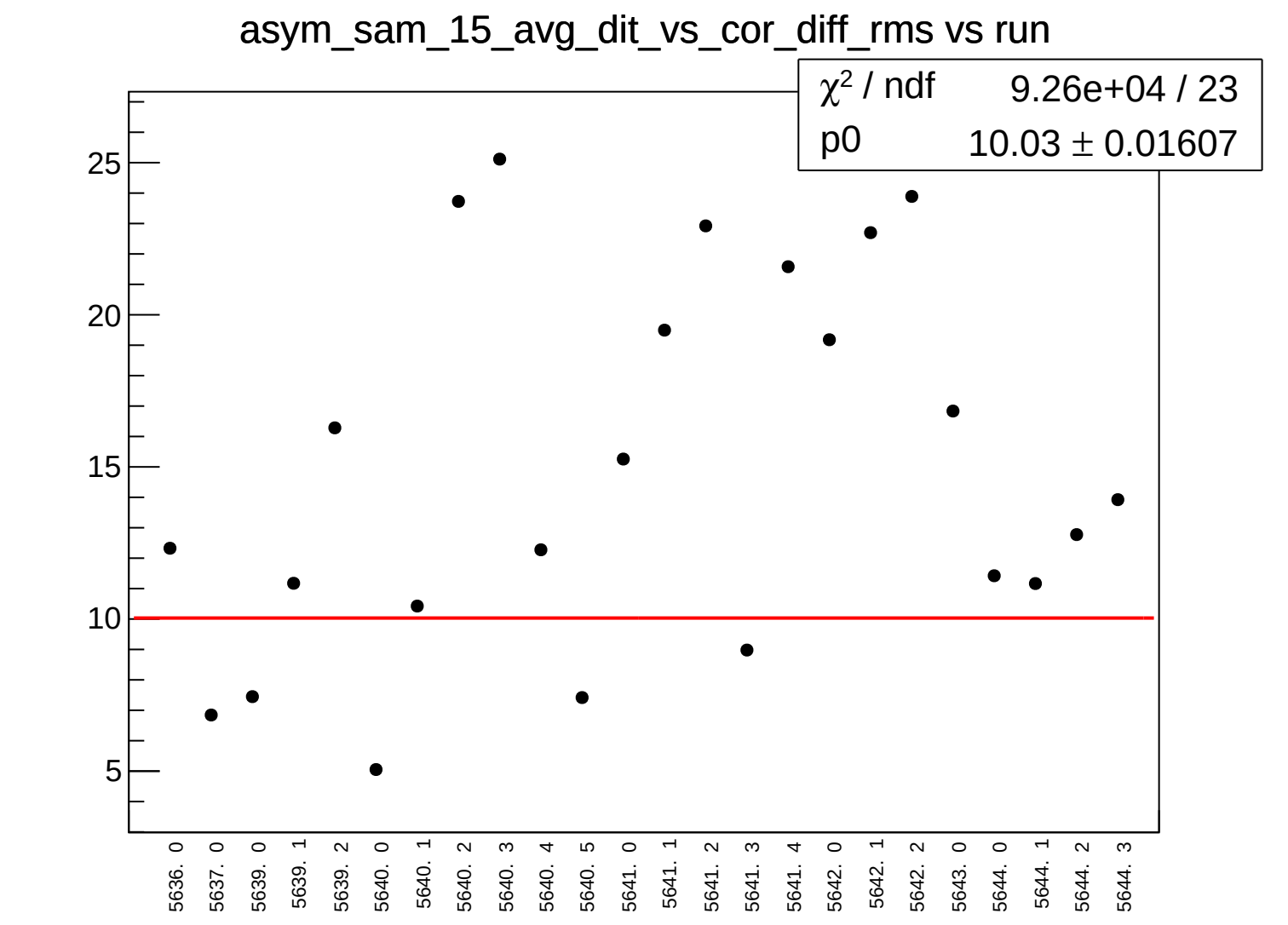

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 21.72 / 23
p0 7.061e−15 ± 2.216e−14
0.2
0.1
0
−0.1
−0.2
−0.3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 19.62
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

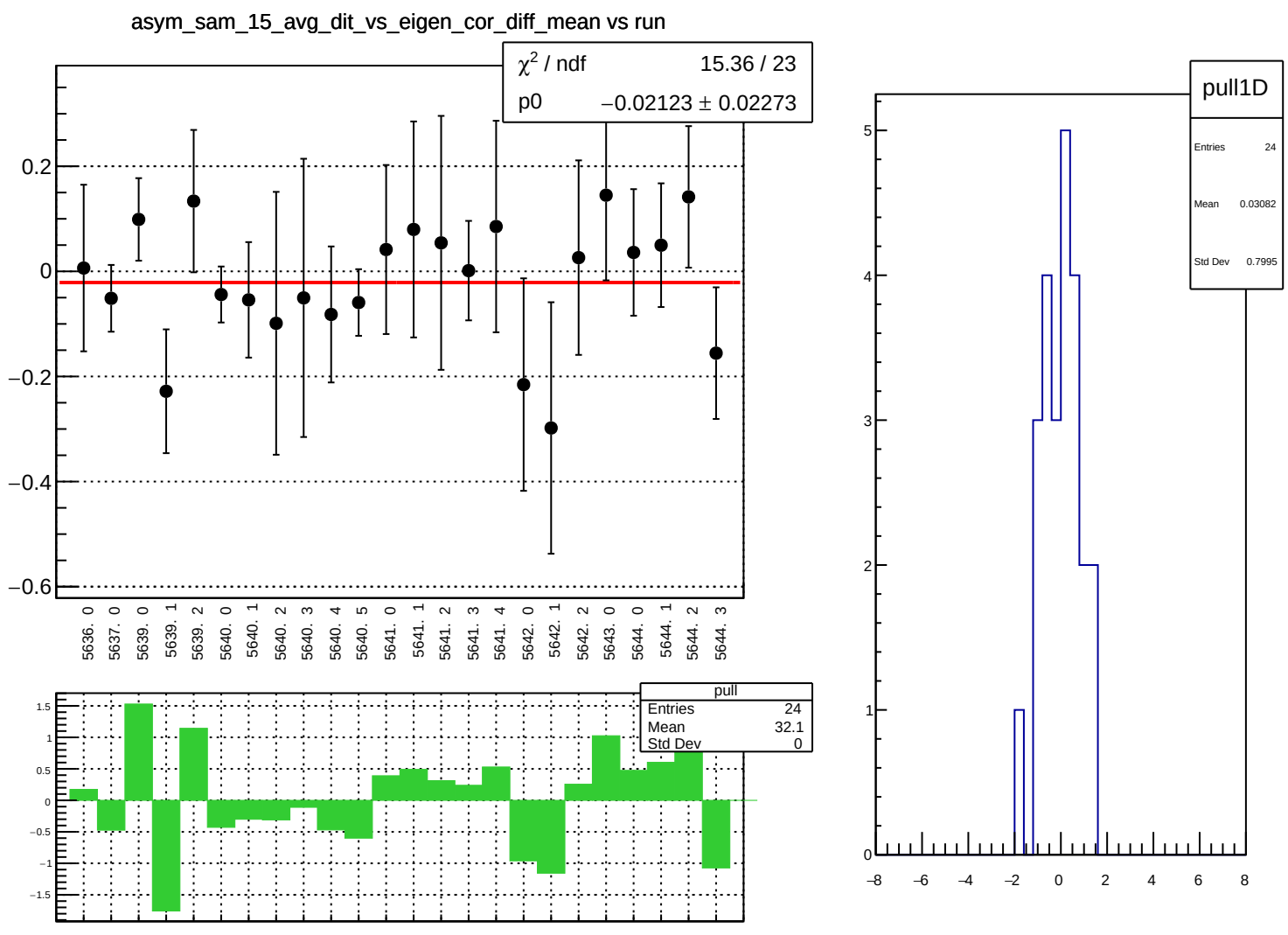

pull1D
Entries 24
Mean −0.3178
Std Dev 0.8966
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

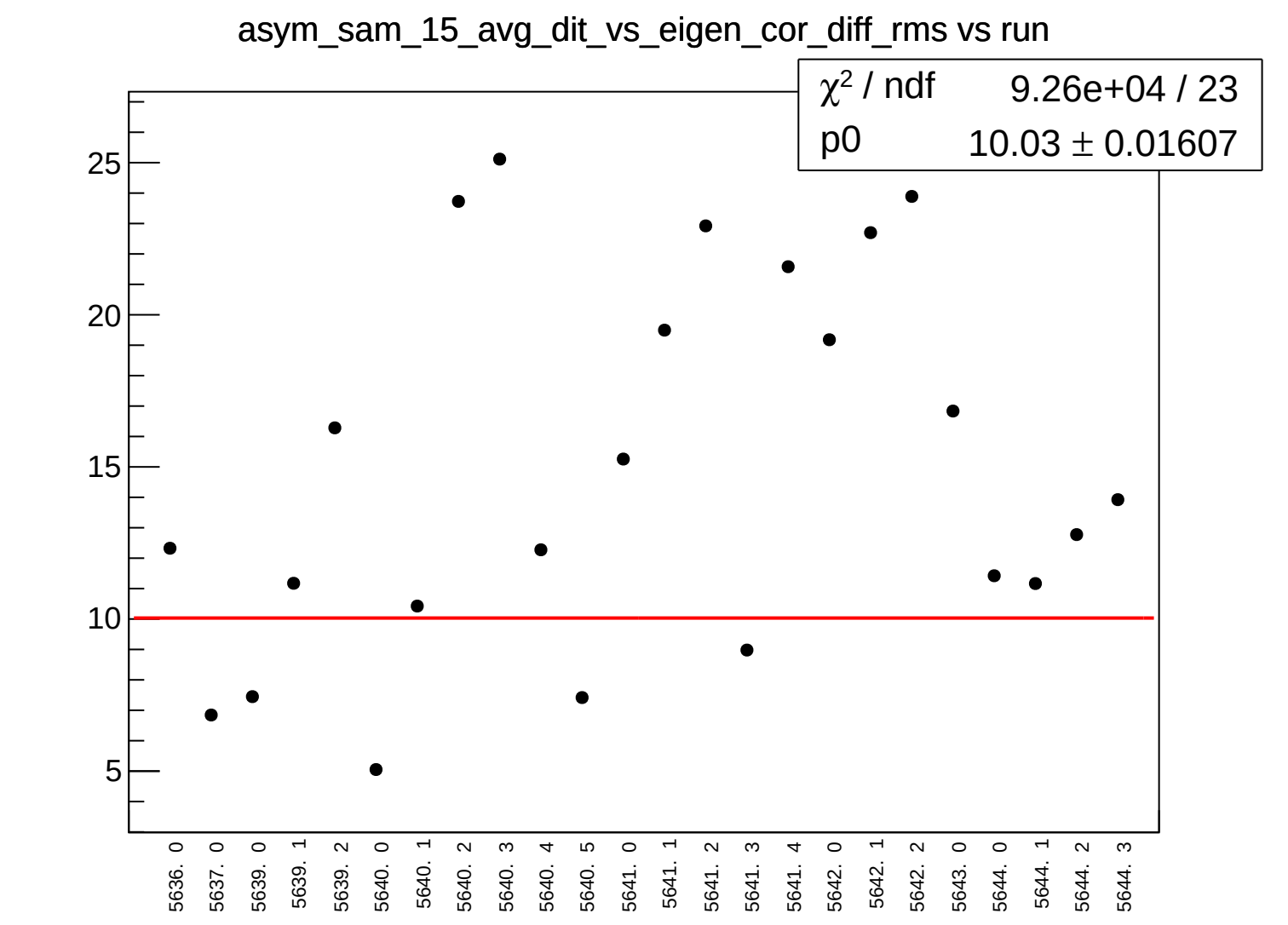

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.404e+05 / 23
p0 7.707e−12 ± 1.567e−14
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

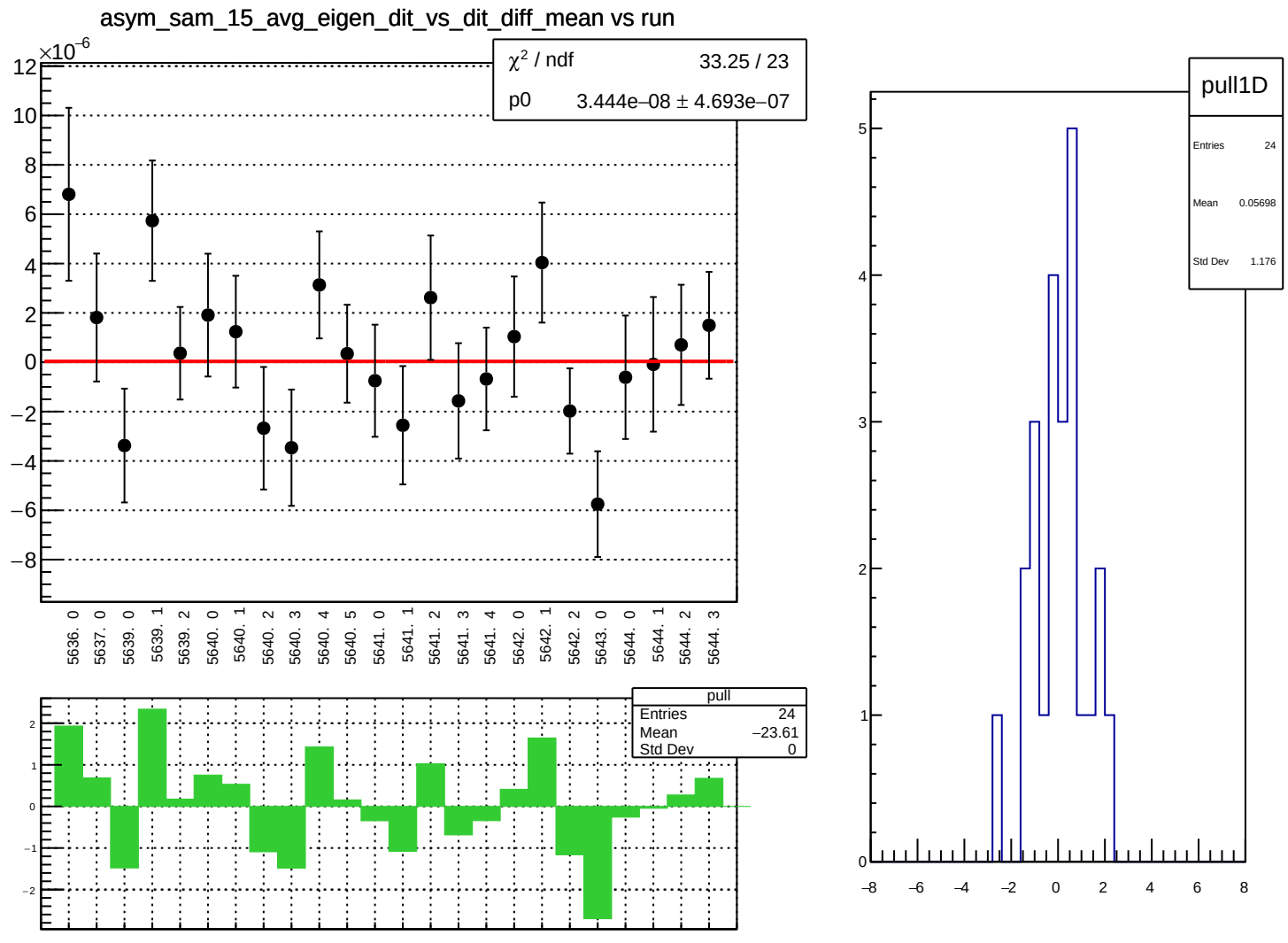

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 15.36 / 23
p0 −0.02123 ± 0.02273
0.2
0
−0.2
−0.4
−0.6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 32.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

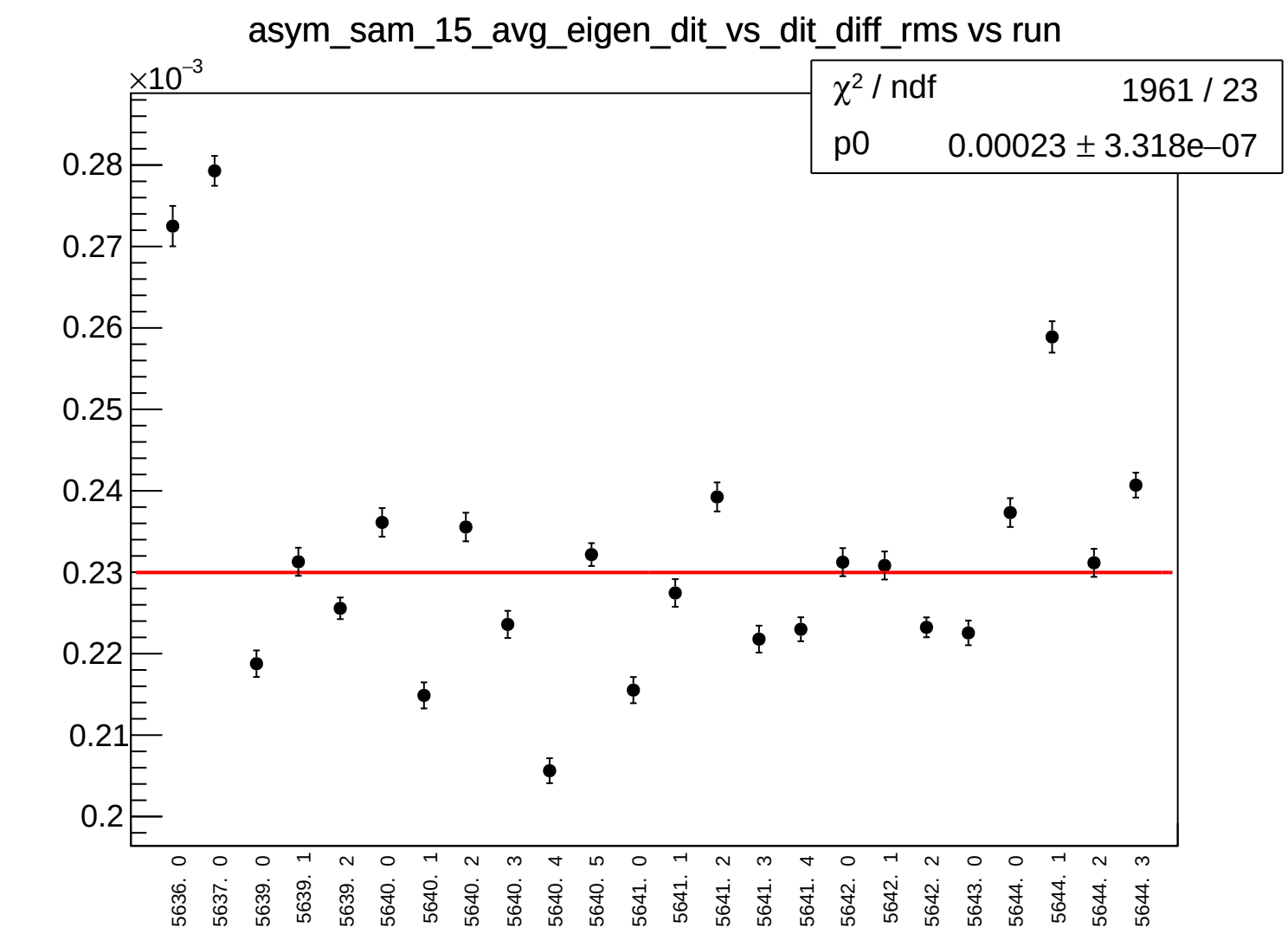

pull1D
Entries 24
Mean 0.03082
Std Dev 0.7995
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

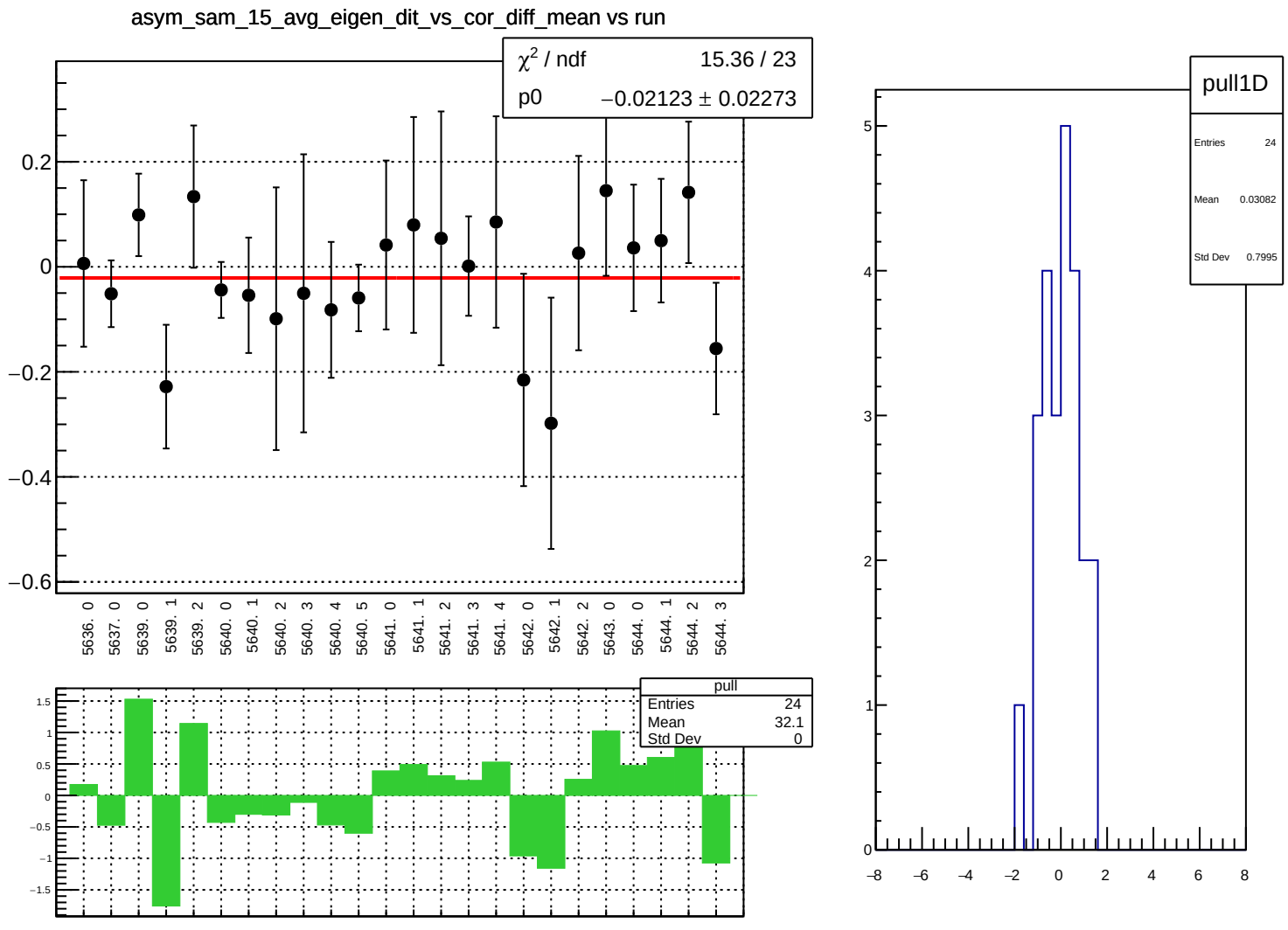

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.26e+04 / 23
p0 10.03 ± 0.01607
25
20
15
10
5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

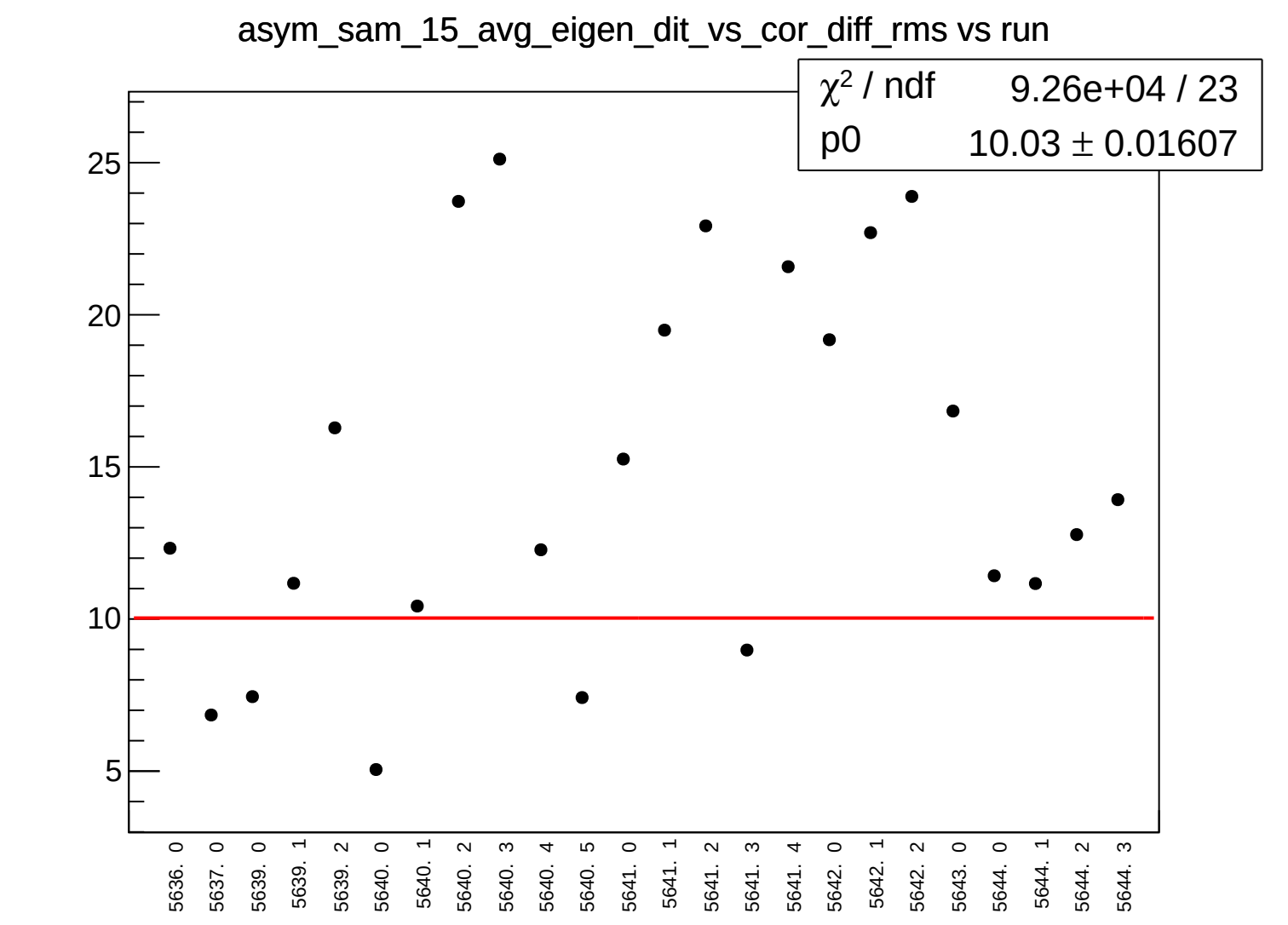

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 15.36 / 23
p0 −0.02123 ± 0.02273
0.2
0
−0.2
−0.4
−0.6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 32.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.03082
Std Dev 0.7995
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.26e+04 / 23
p0 10.03 ± 0.01607
25
20
15
10
5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 33.25 / 23
p0 3.444e−08 ± 4.693e−07
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −23.61
Std Dev 0
pull1D
Entries 24
Mean 0.05698
Std Dev 1.176


asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1961 / 23
p0 0.00023 ± 3.318e–07
0.28
0.27
0.26
0.25
0.24
0.23
0.22
0.21
0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 15.36 / 23
p0 −0.02123 ± 0.02273
0.2
0
−0.2
−0.4
−0.6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 32.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.03082
Std Dev 0.7995
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.26e+04 / 23
p0 10.03 ± 0.01607
25
20
15
10
5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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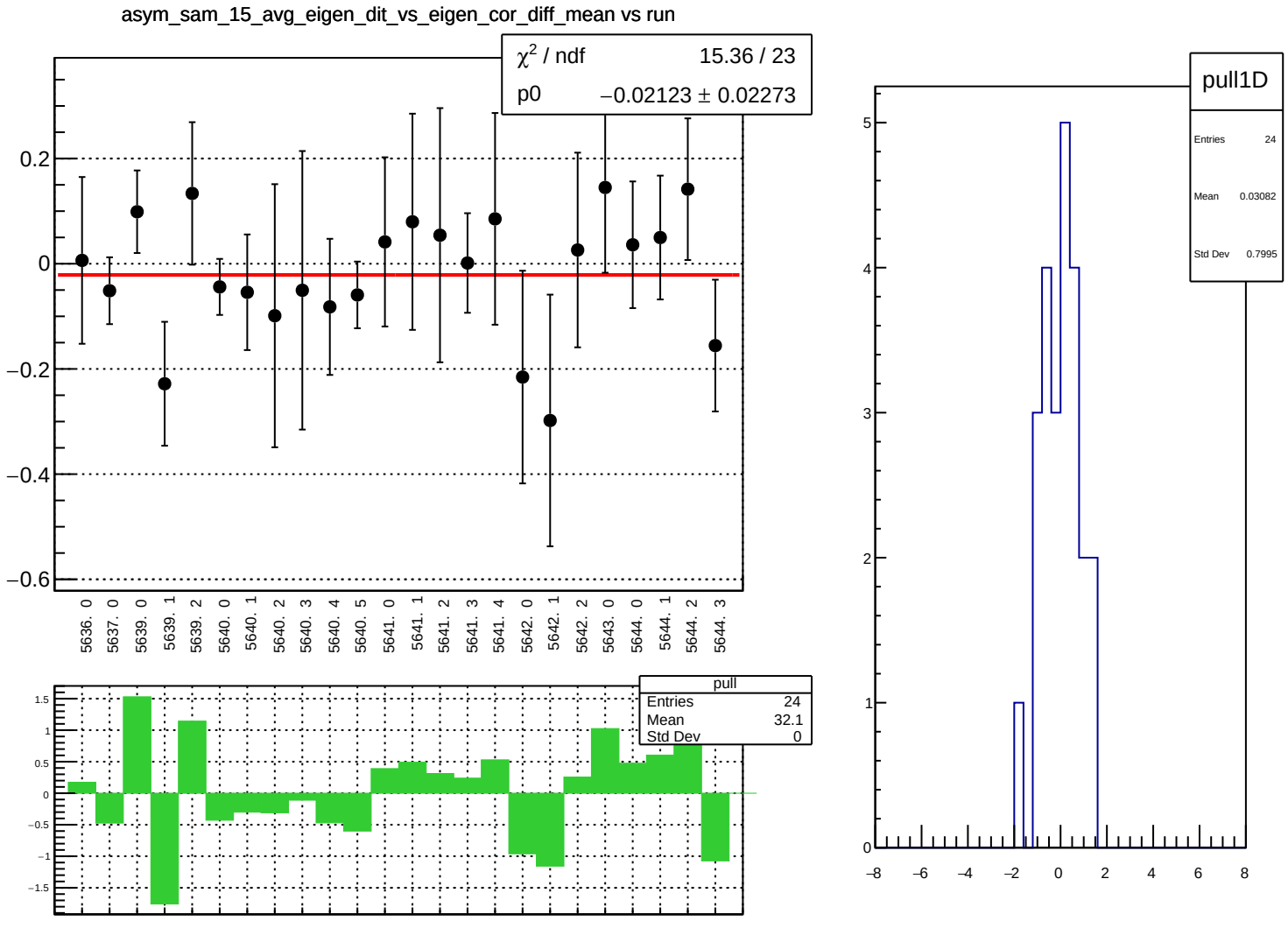
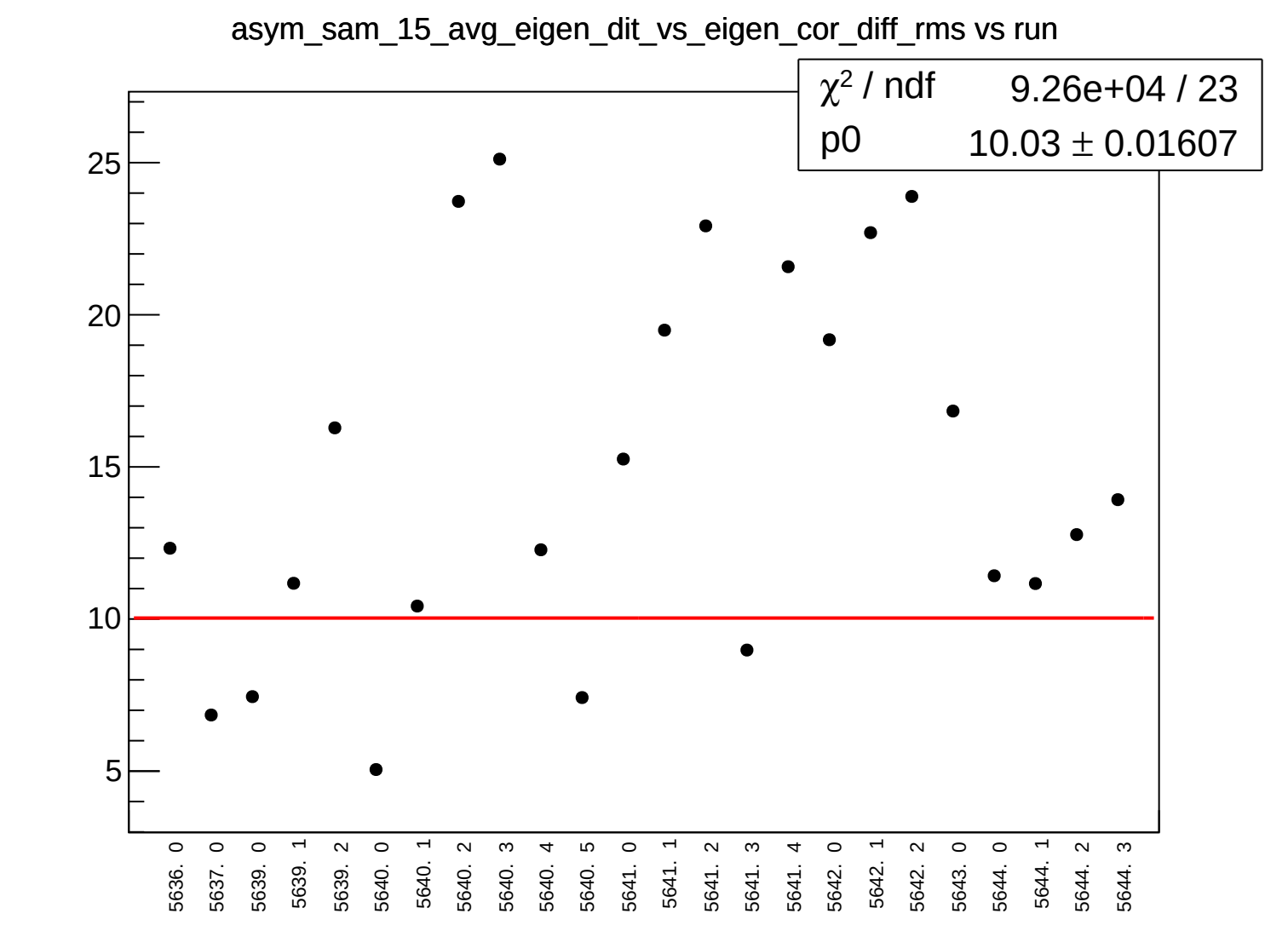
5644. 2
5644. 3


asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 15.36 / 23
p0 −0.02123 ± 0.02273
0.2
0
−0.2
−0.4
−0.6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 32.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.03082
Std Dev 0.7995
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.26e+04 / 23
p0 10.03 ± 0.01607
25
20
15
10
5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
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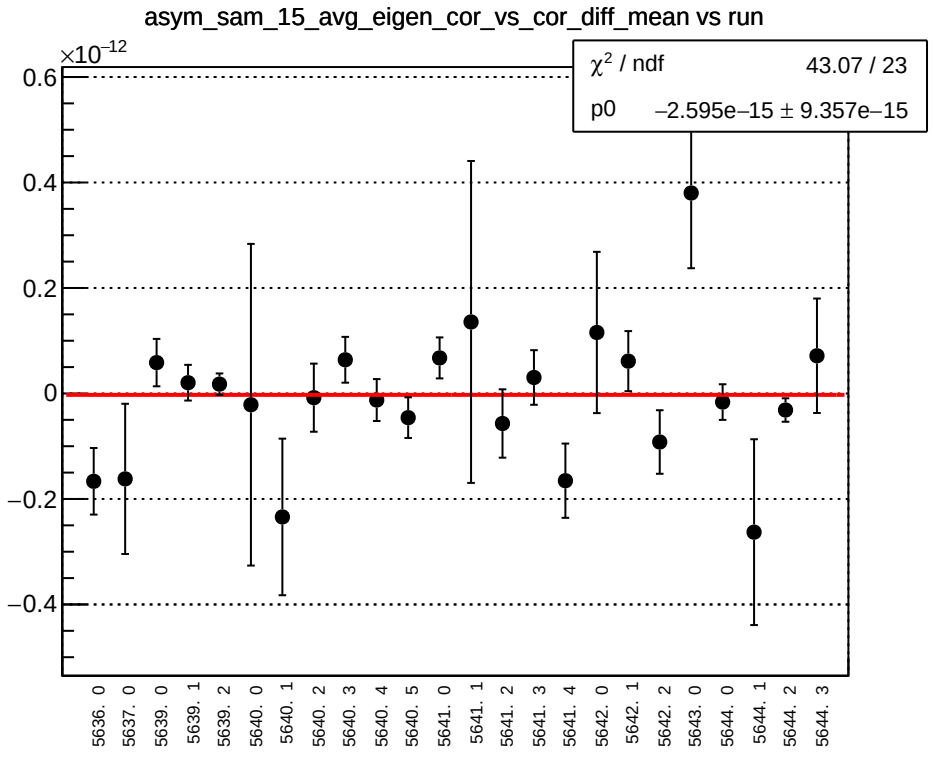
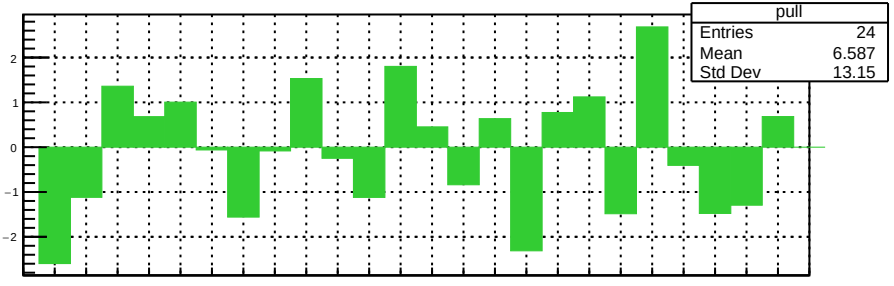
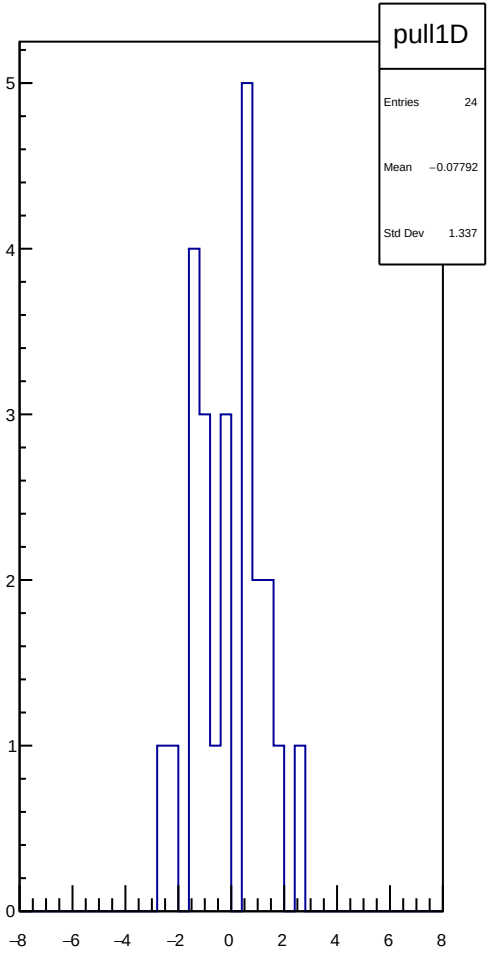
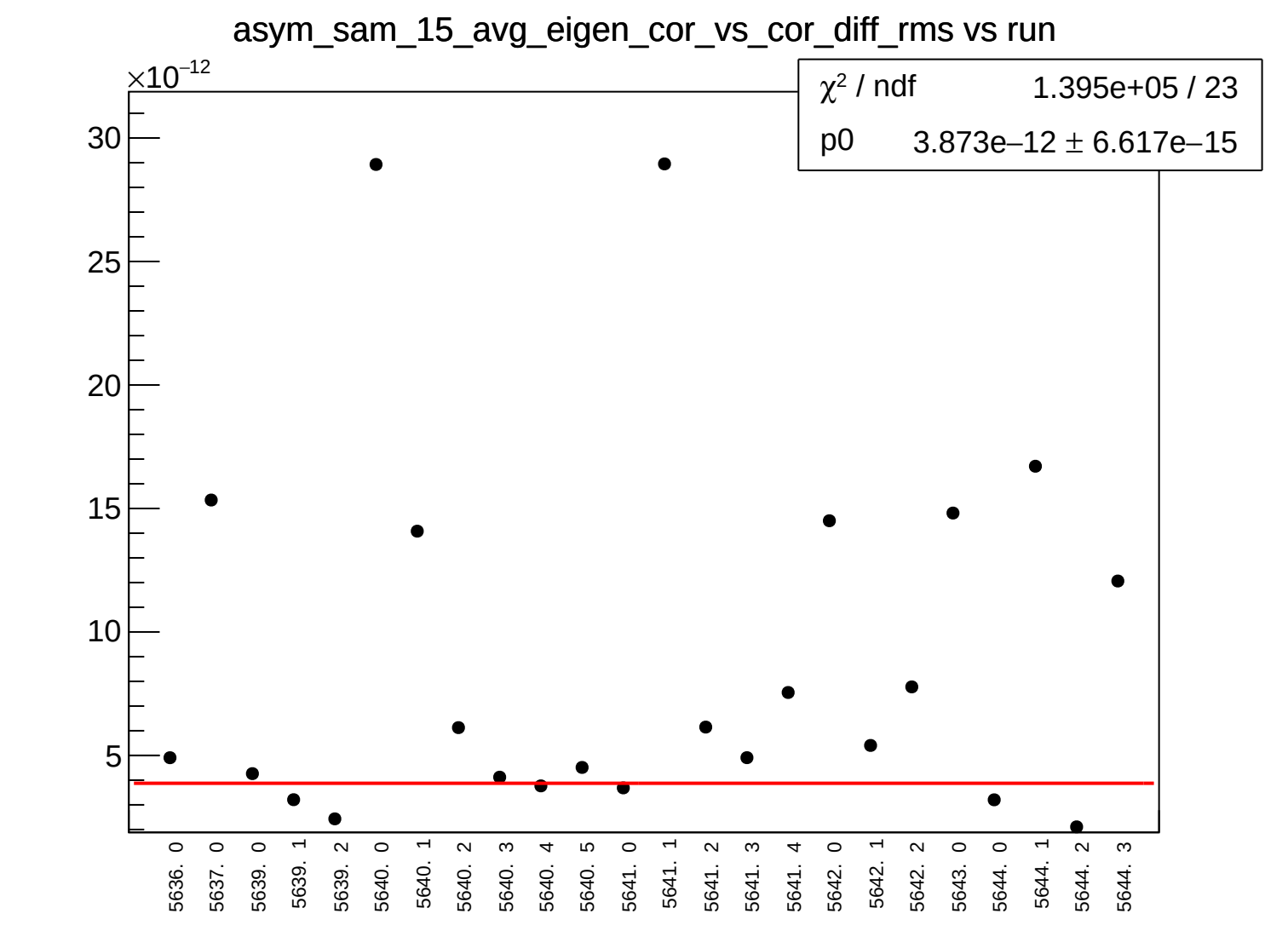
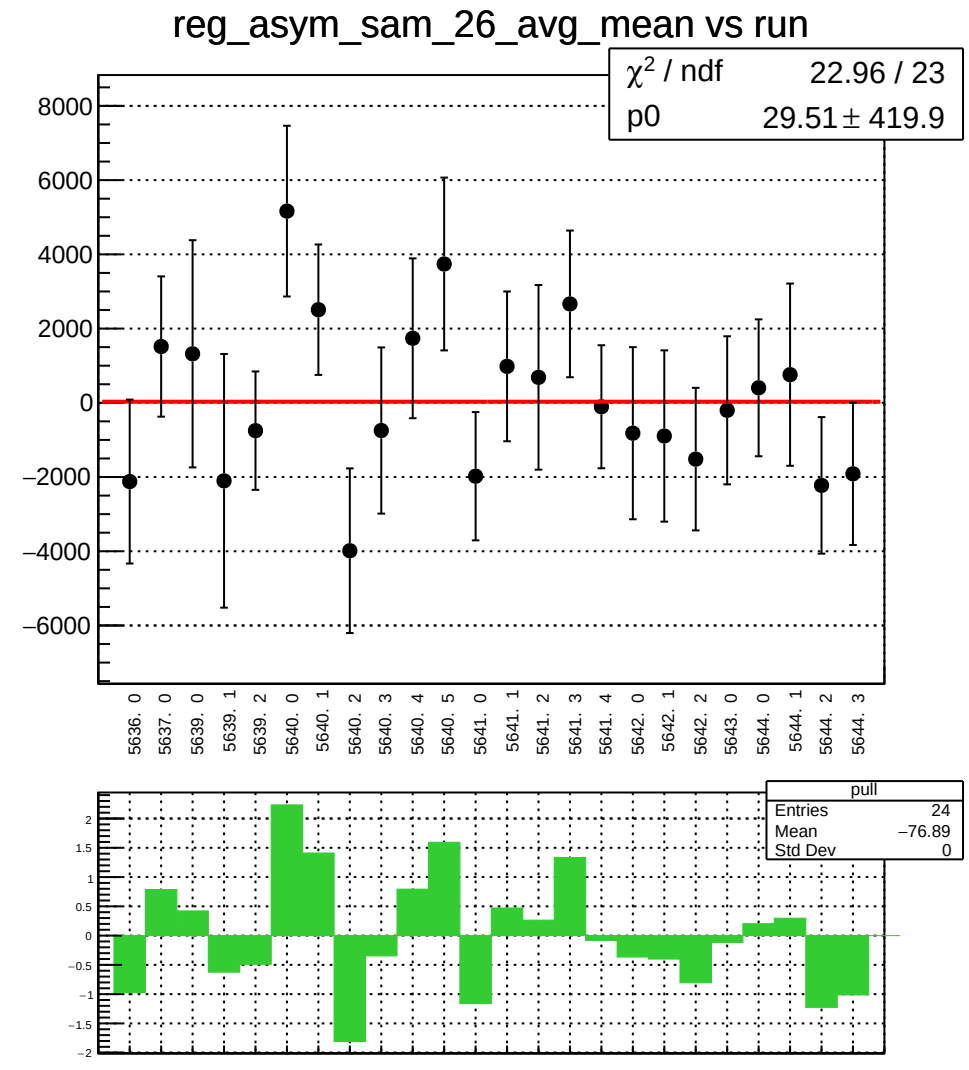
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

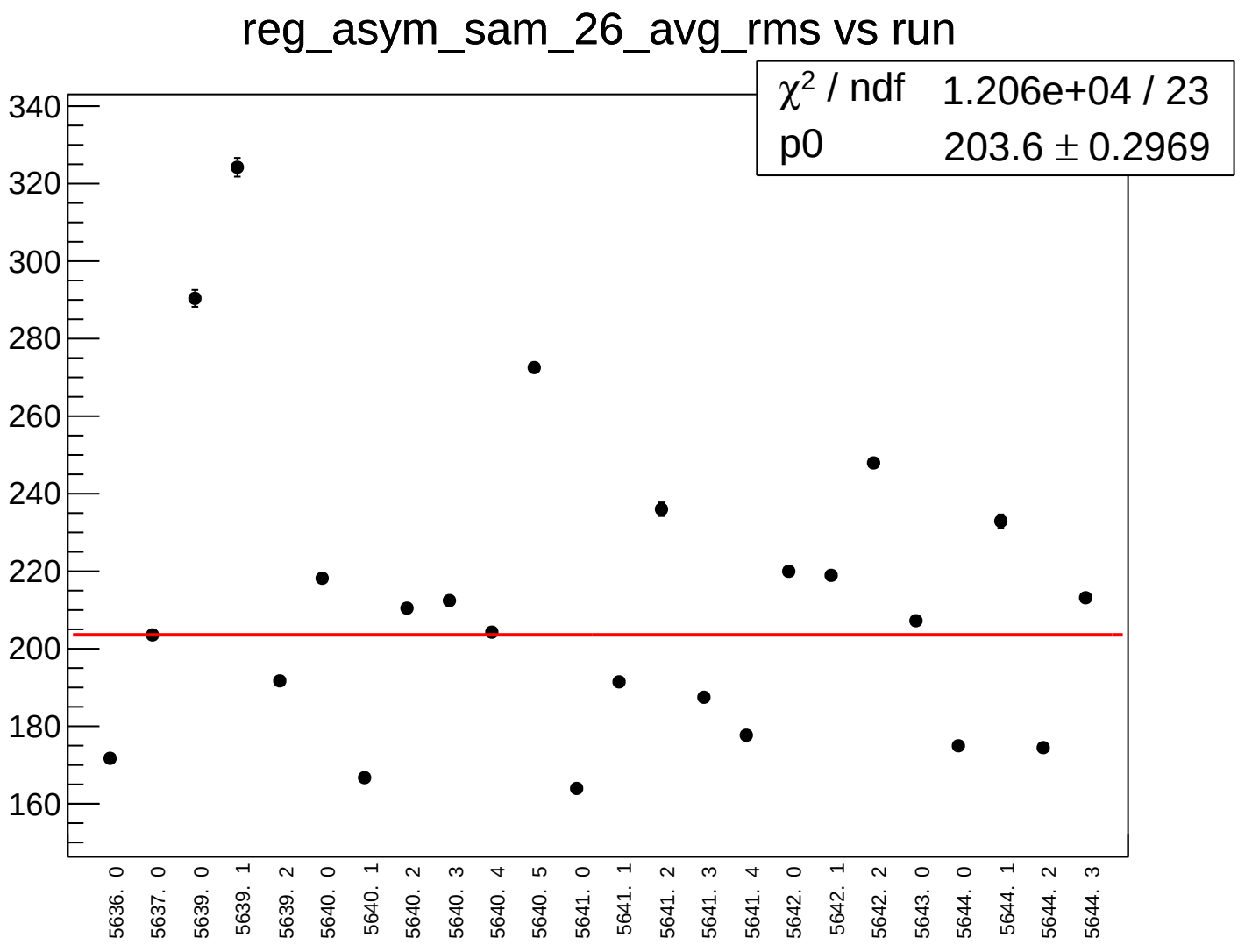

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 43.07 / 23
p0 −2.595e−15 ± 9.357e−15
0.6
0.4
0.2
0
−0.2
−0.4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

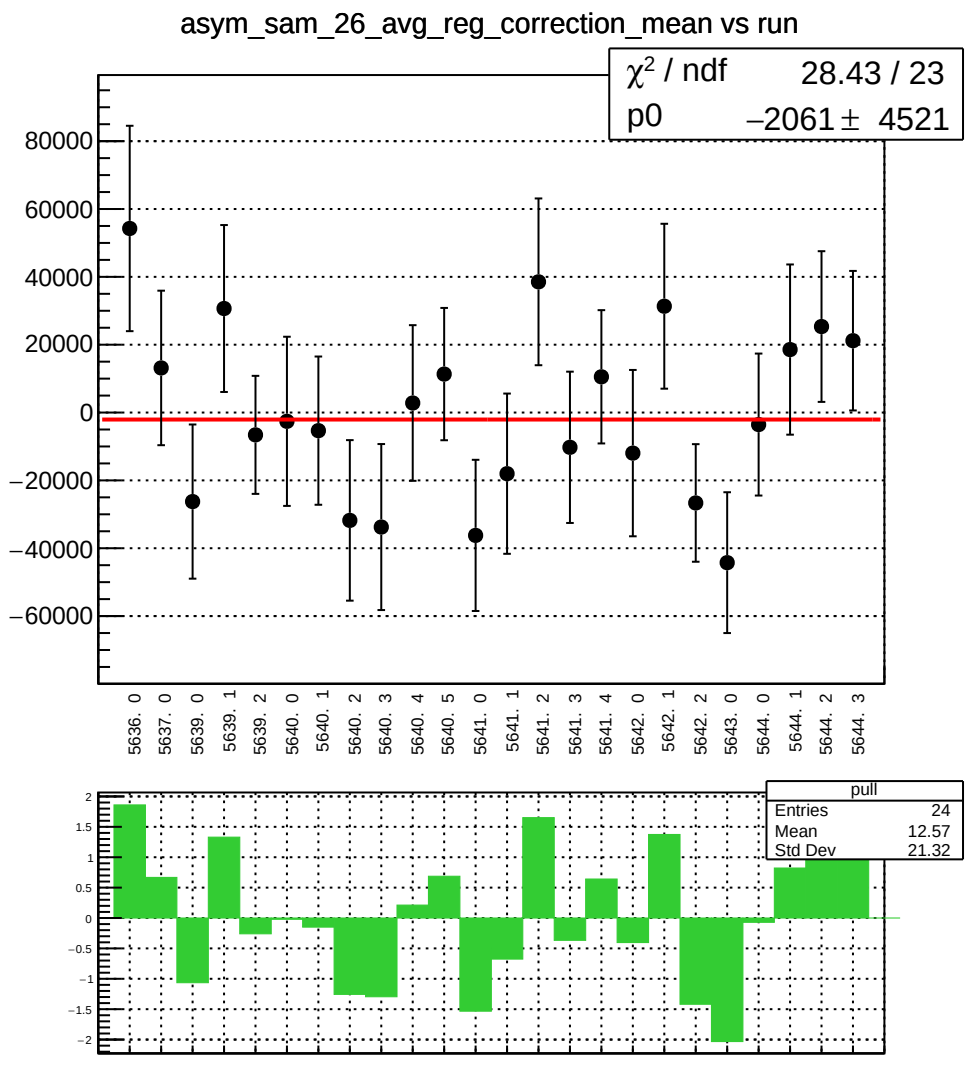

pull
Entries 24
Mean 6.587
Std Dev 13.15
2
1
0
−1
−2

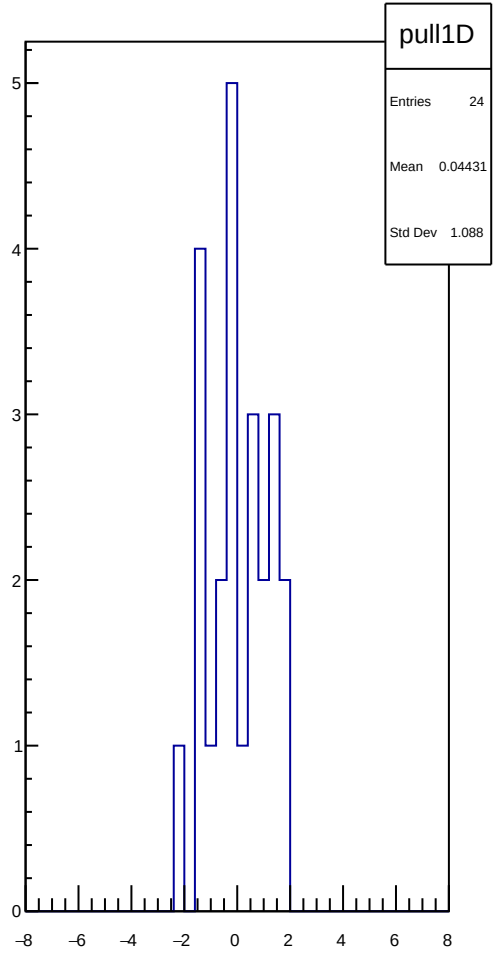

pull1D
Entries 24
Mean −0.07792
Std Dev 1.337
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

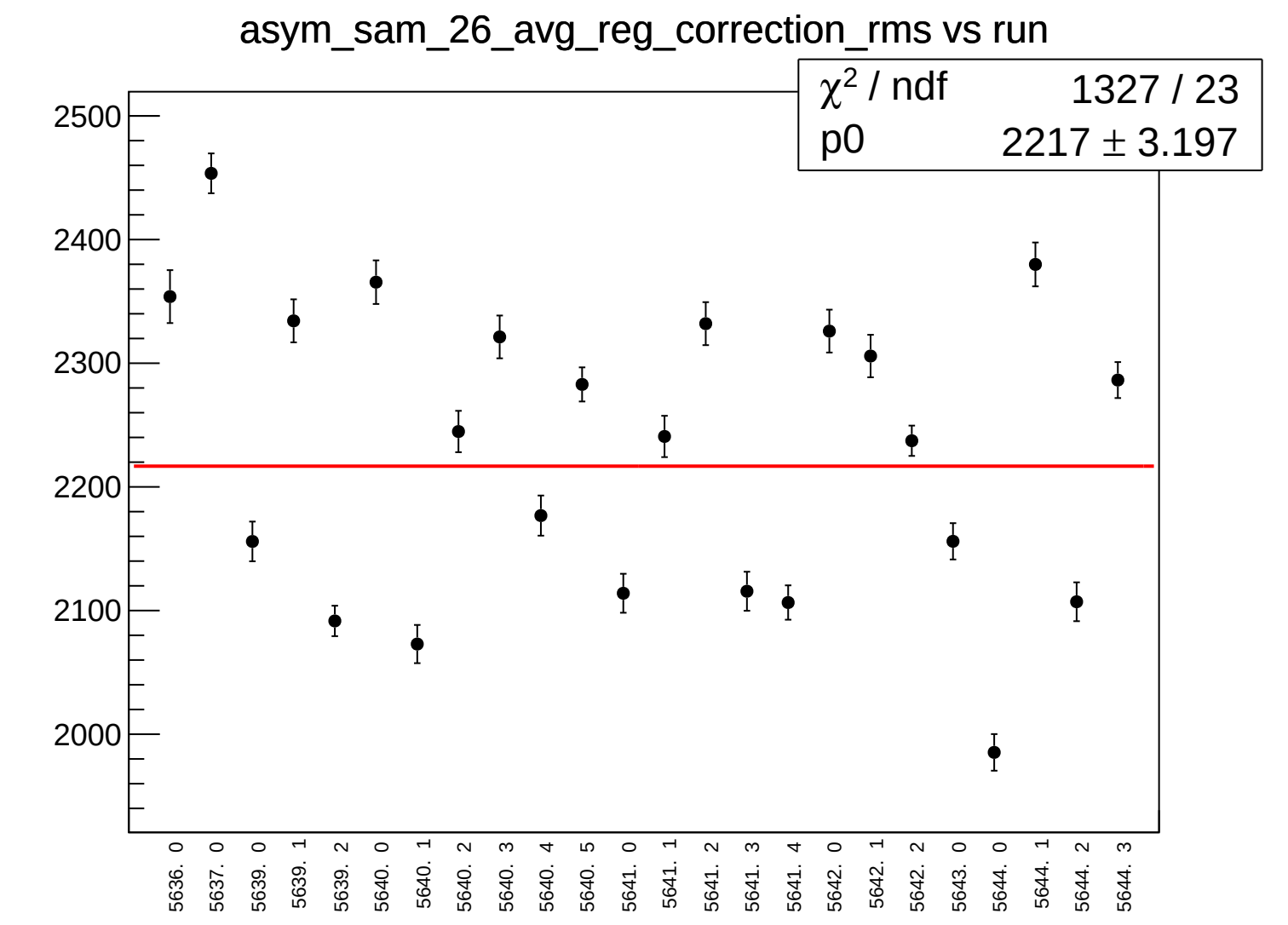

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.395e+05 / 23
p0 3.873e−12 ± 6.617e−15
30
25
20
15
10
5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

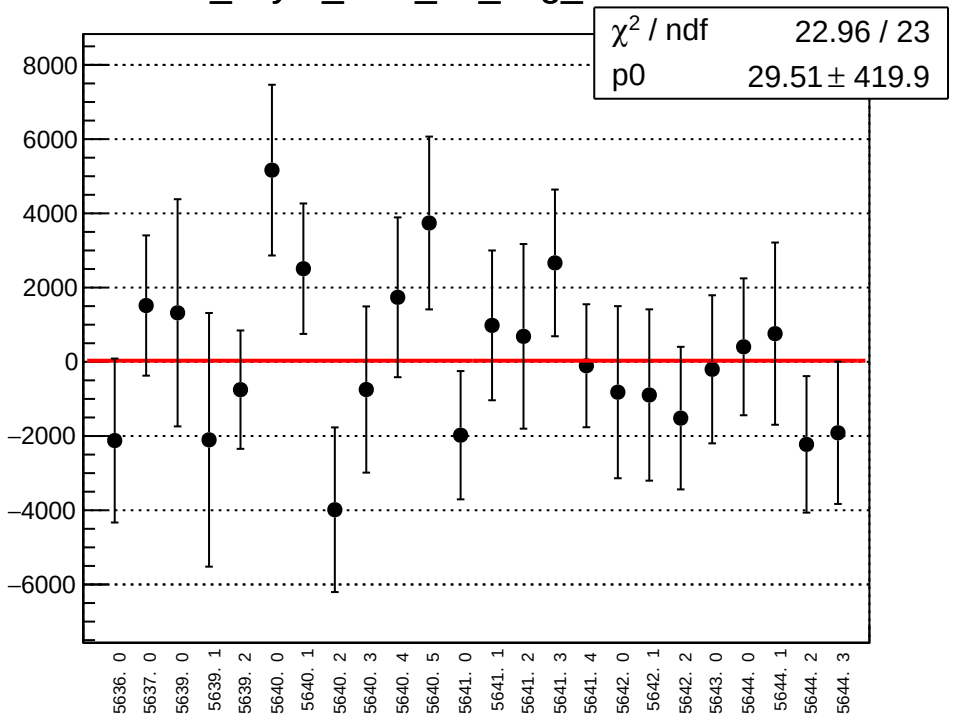

reg_asym_sam_26_avg_mean vs run
χ² / ndf 22.96 / 23
p0 29.51 ± 419.9
8000
6000
4000
2000
0
−2000
−4000
−6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −76.89
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.01643
Std Dev 0.9779
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

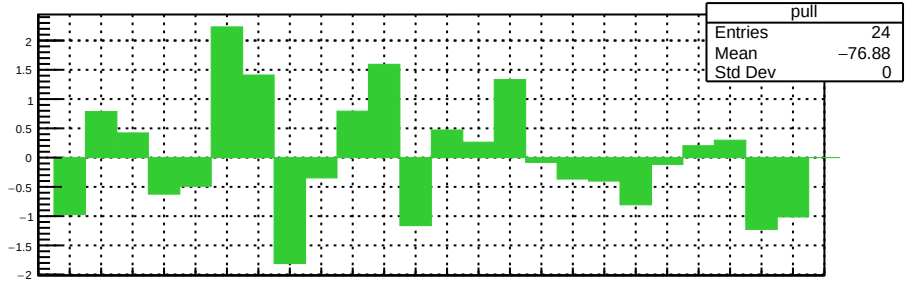

reg_asym_sam_26_avg_rms vs run
χ² / ndf 1.206e+04 / 23
p0 203.6 ± 0.2969
340
320
300
280
260
240
220
200
180
160
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

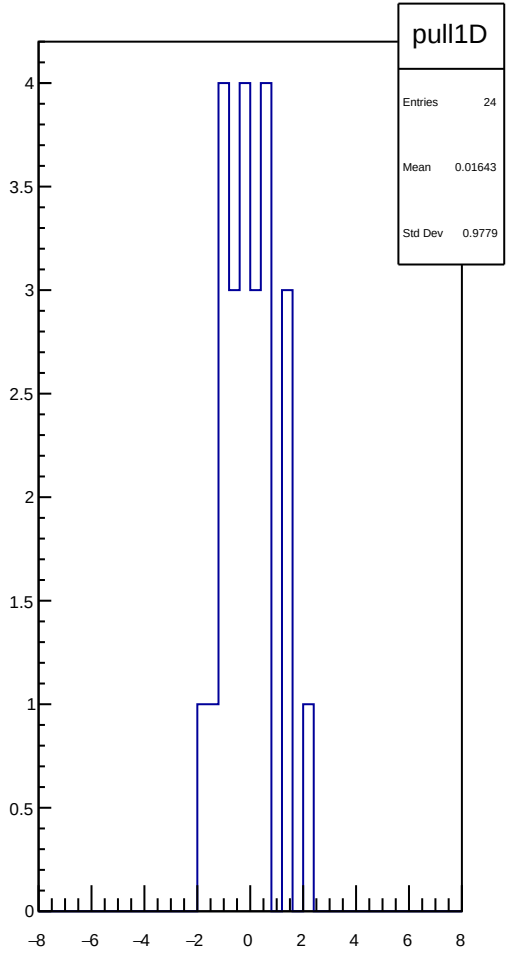

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 28.43 / 23
p0 −2061 ± 4521
80000
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 12.57
Std Dev 21.32
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

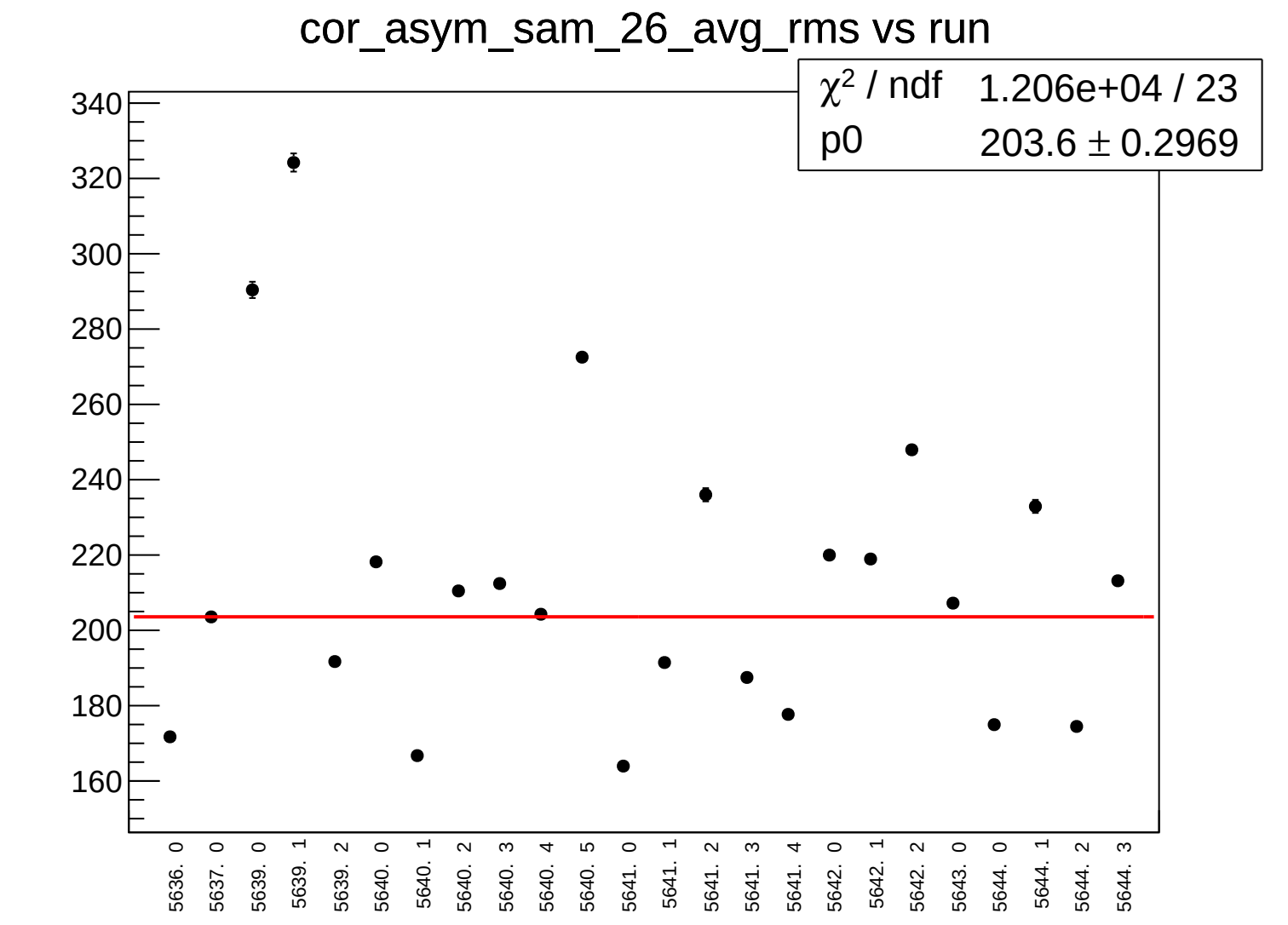

pull1D
Entries 24
Mean 0.04431
Std Dev 1.088
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

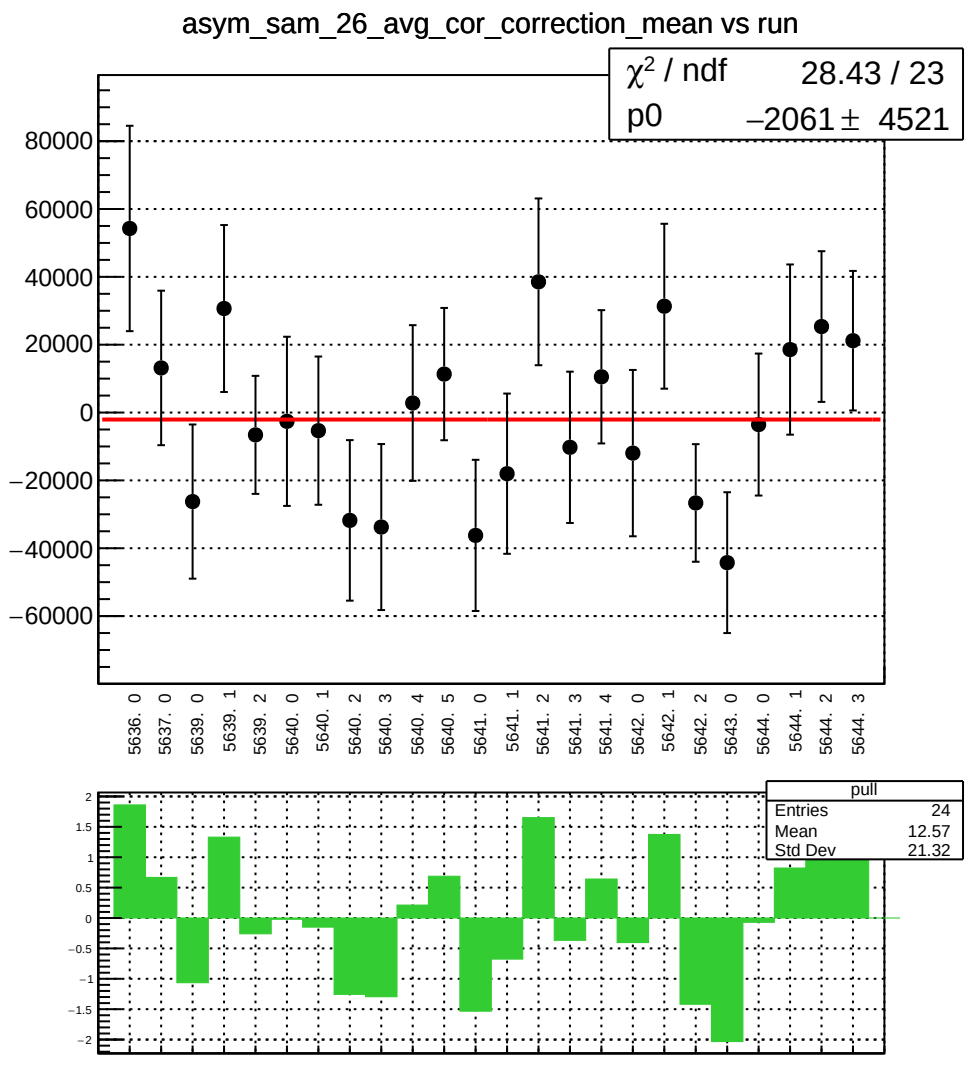

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 1327 / 23
p0 2217 ± 3.197
2500
2400
2300
2200
2100
2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

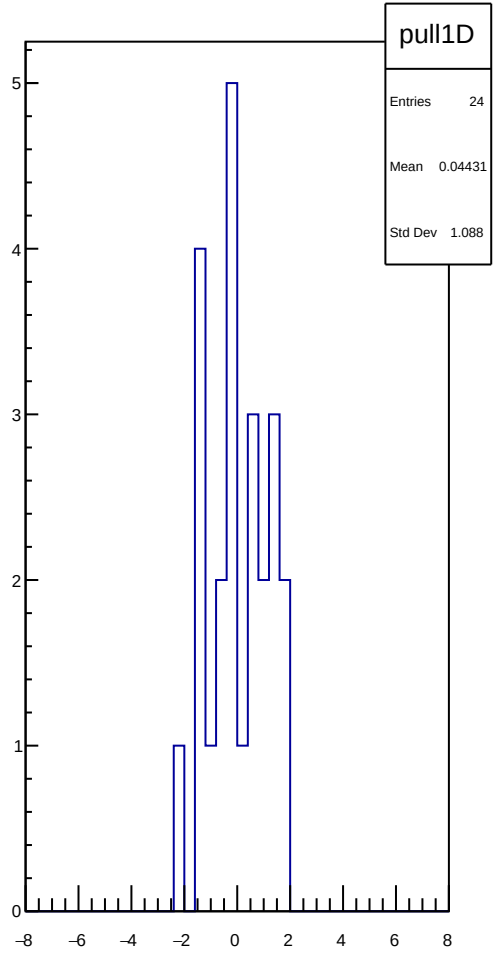

cor_asym_sam_26_avg_mean vs run
χ² / ndf 22.96 / 23
p0 29.51 ± 419.9
8000
6000
4000
2000
0
−2000
−4000
−6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

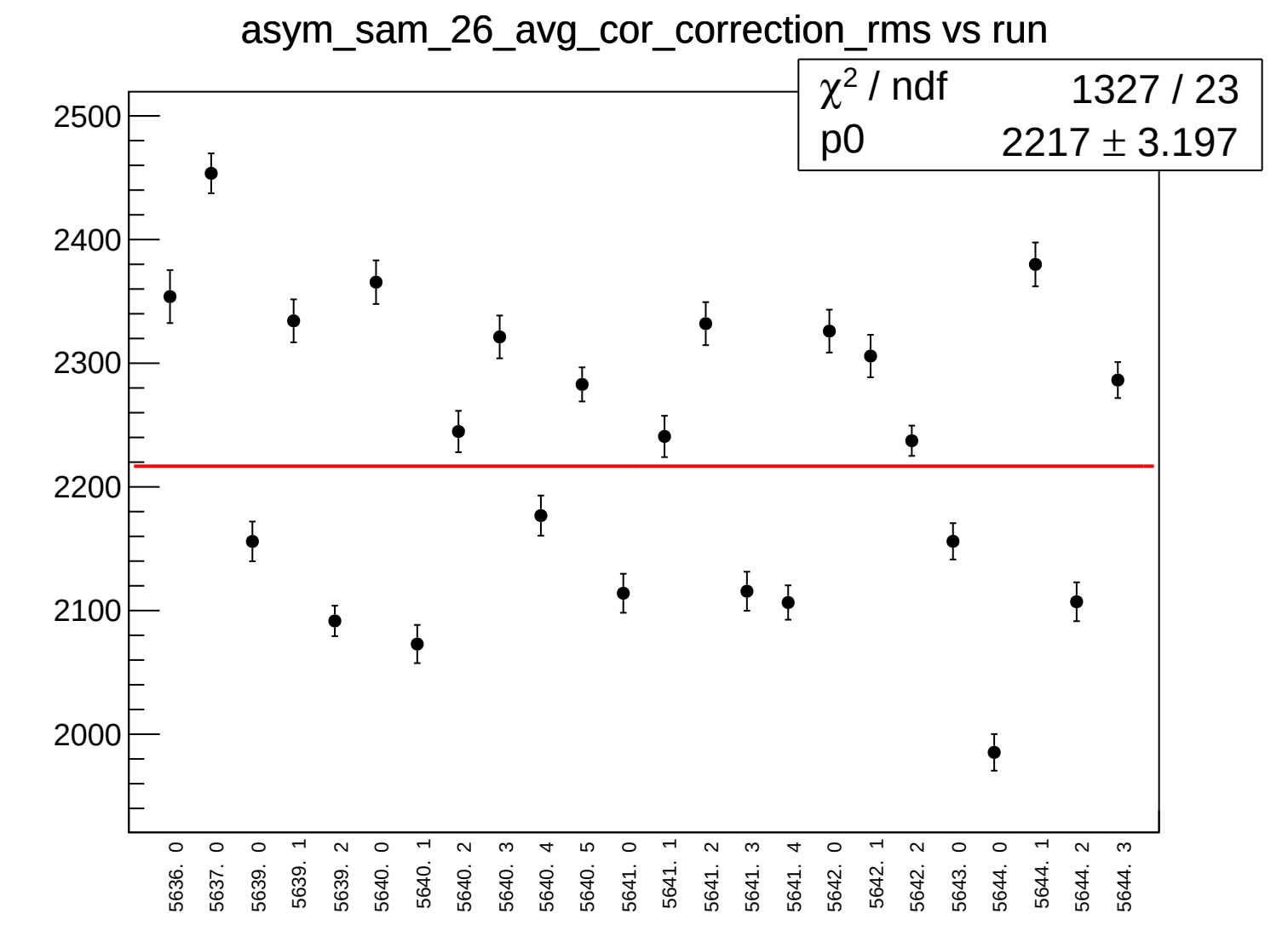

pull
Entries 24
Mean −76.88
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

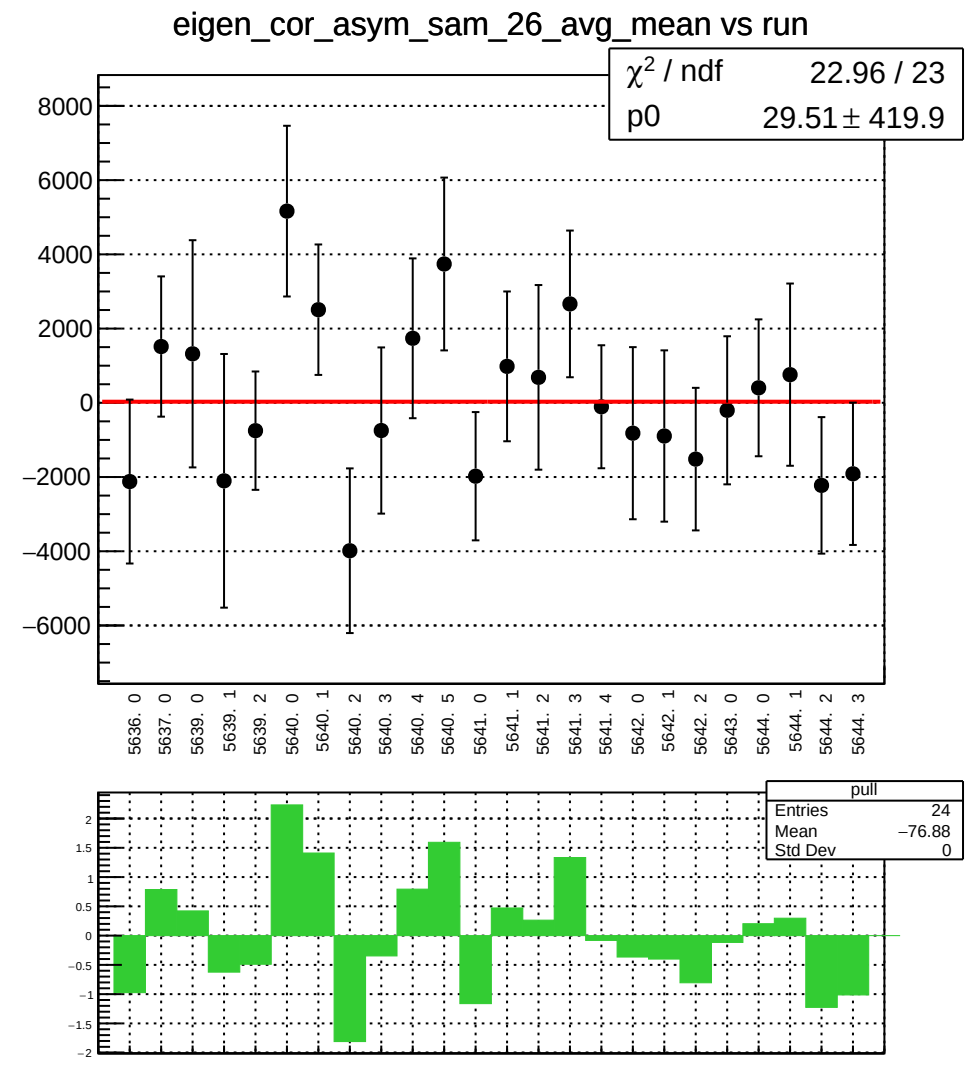

pull1D
Entries 24
Mean 0.01643
Std Dev 0.9779
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

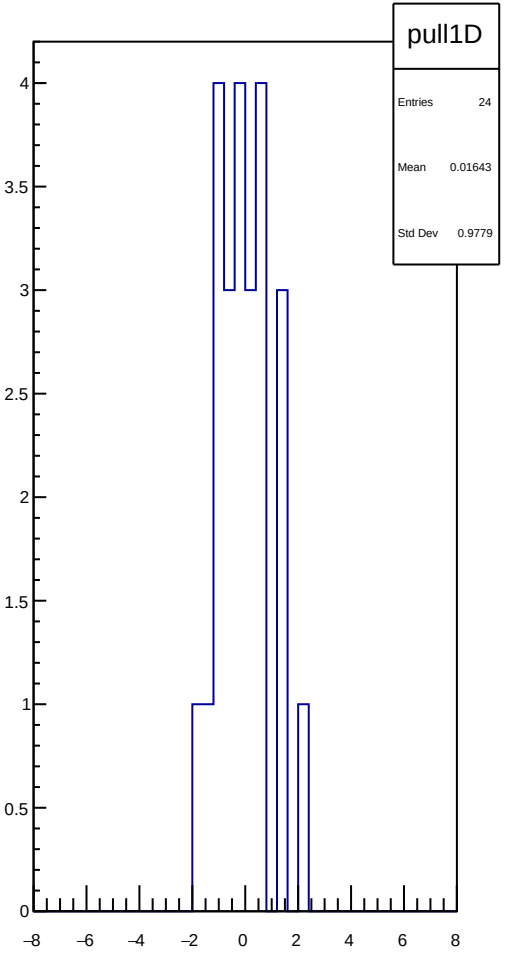

cor_asym_sam_26_avg_rms vs run
χ² / ndf 1.206e+04 / 23
p0 203.6 ± 0.2969
340
320
300
280
260
240
220
200
180
160
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

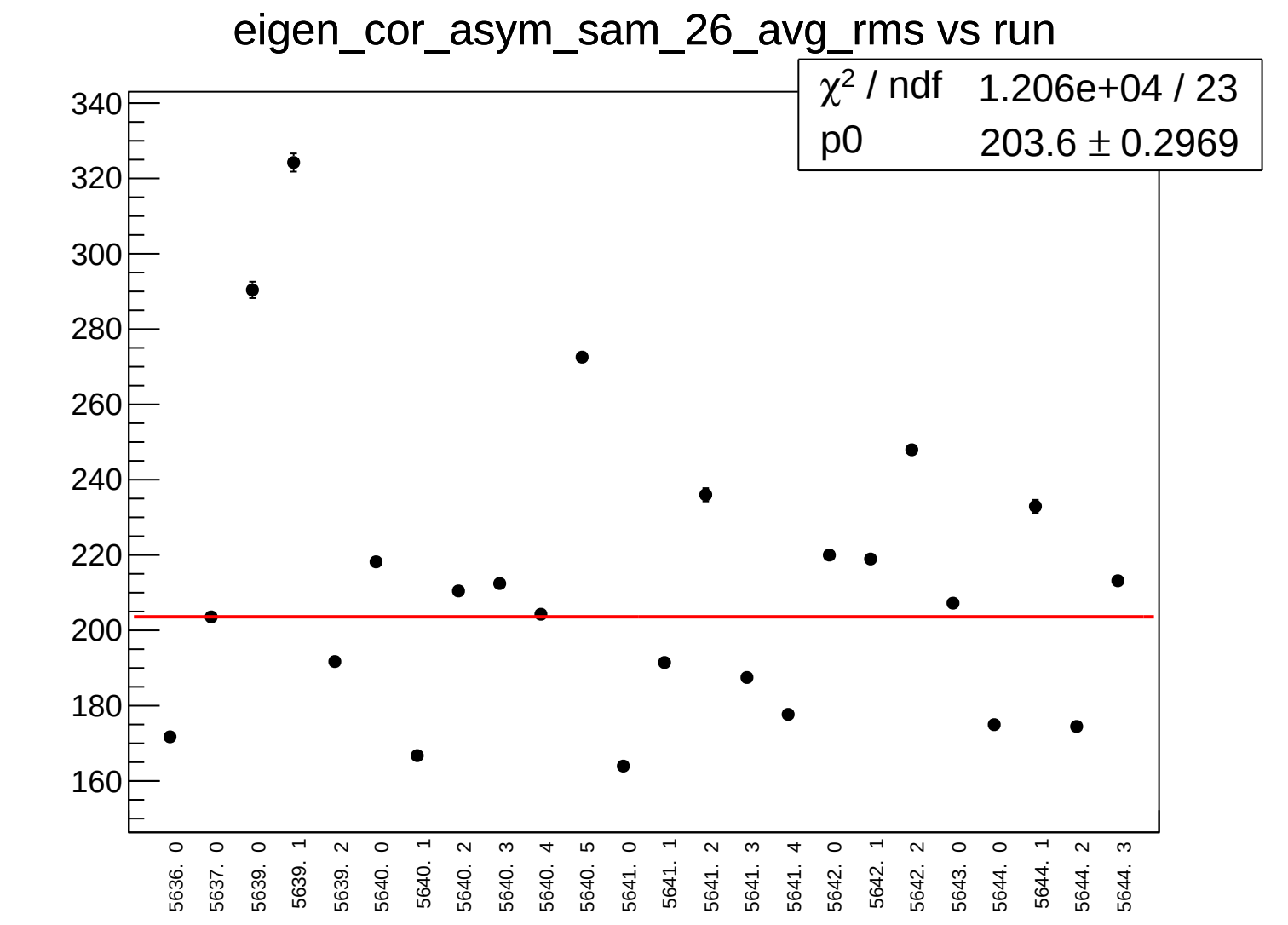

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 28.43 / 23
p0 −2061 ± 4521
80000
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 12.57
Std Dev 21.32
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

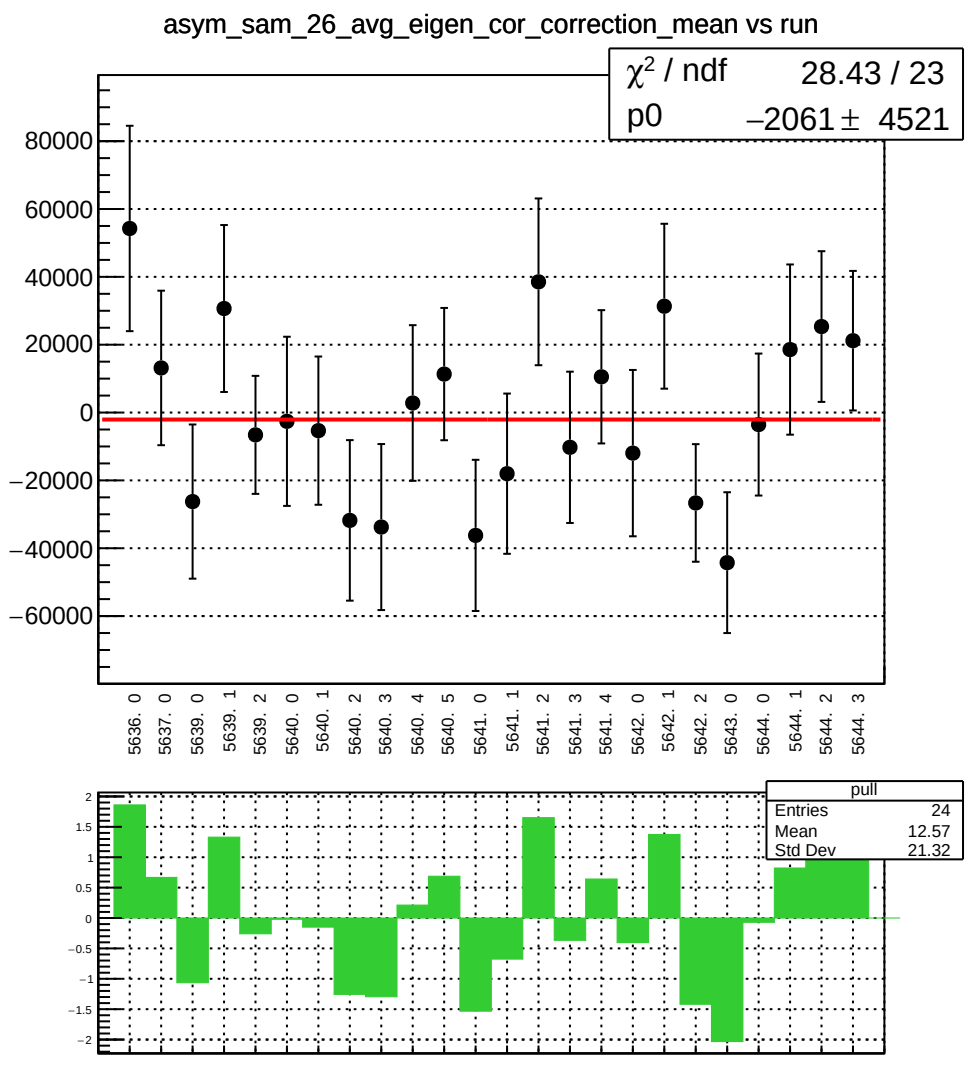

pull1D
Entries 24
Mean 0.04431
Std Dev 1.088
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

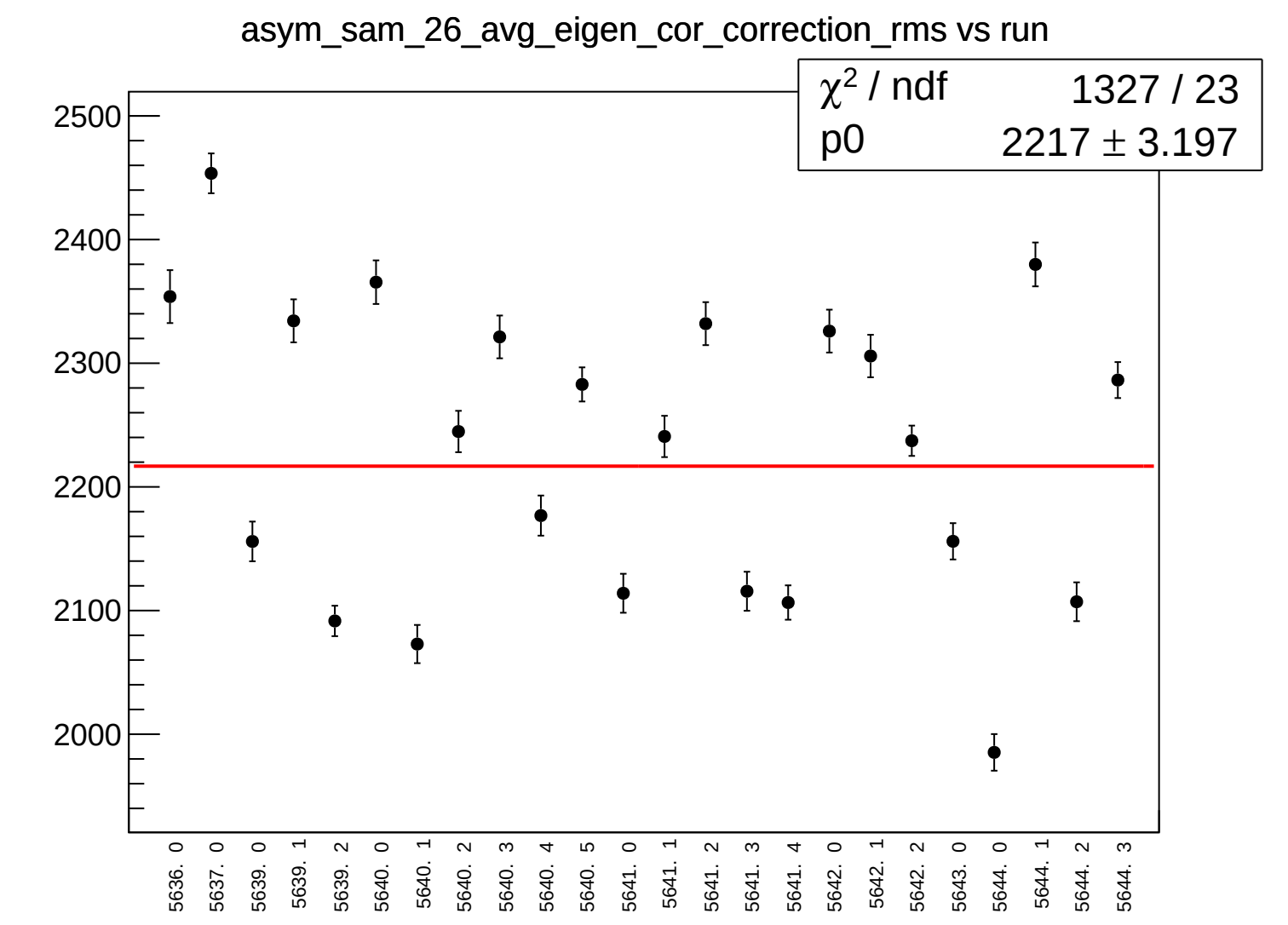

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 1327 / 23
p0 2217 ± 3.197
2500
2400
2300
2200
2100
2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

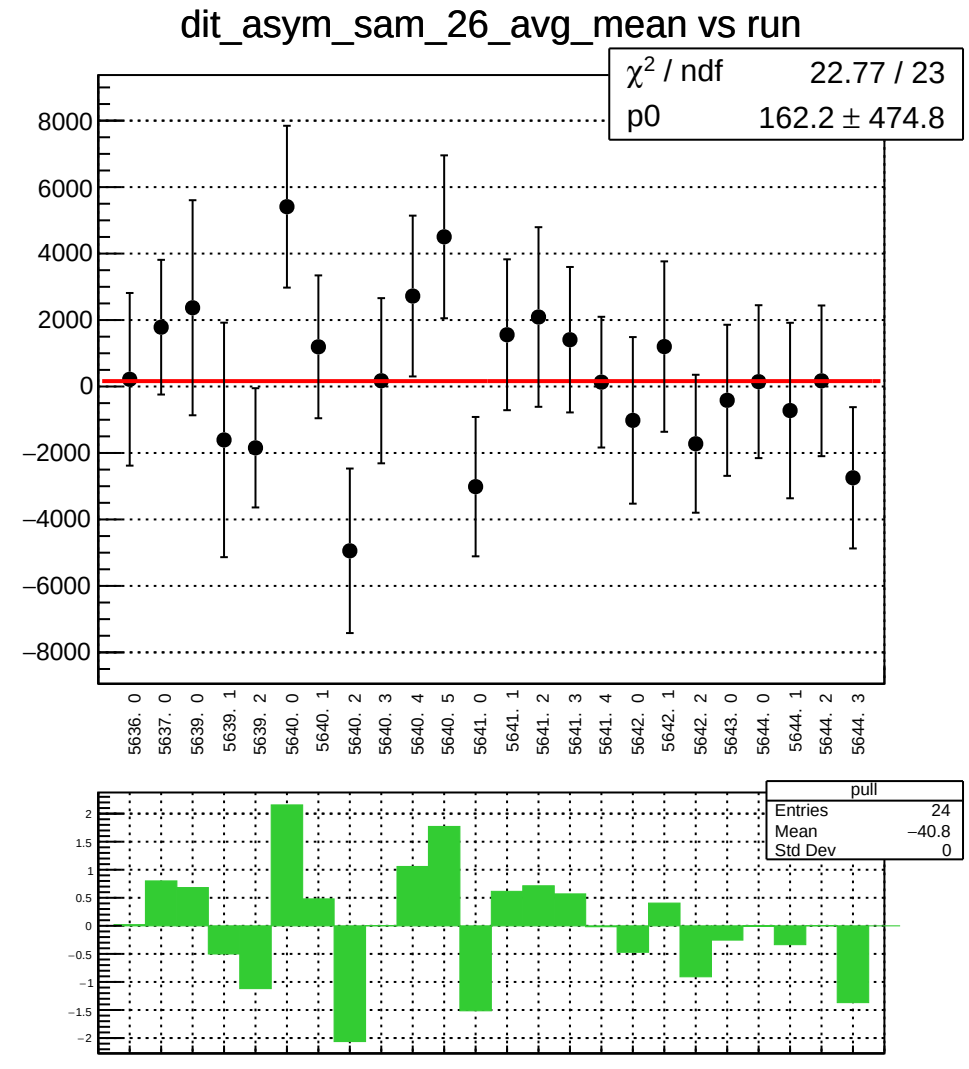

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 22.96 / 23
p0 29.51 ± 419.9
8000
6000
4000
2000
0
−2000
−4000
−6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −76.88
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

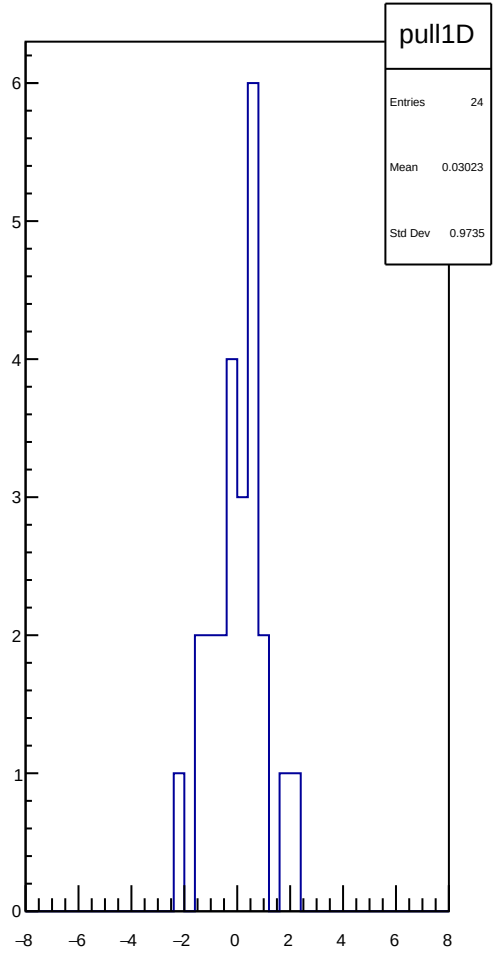

pull1D
Entries 24
Mean 0.01643
Std Dev 0.9779
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

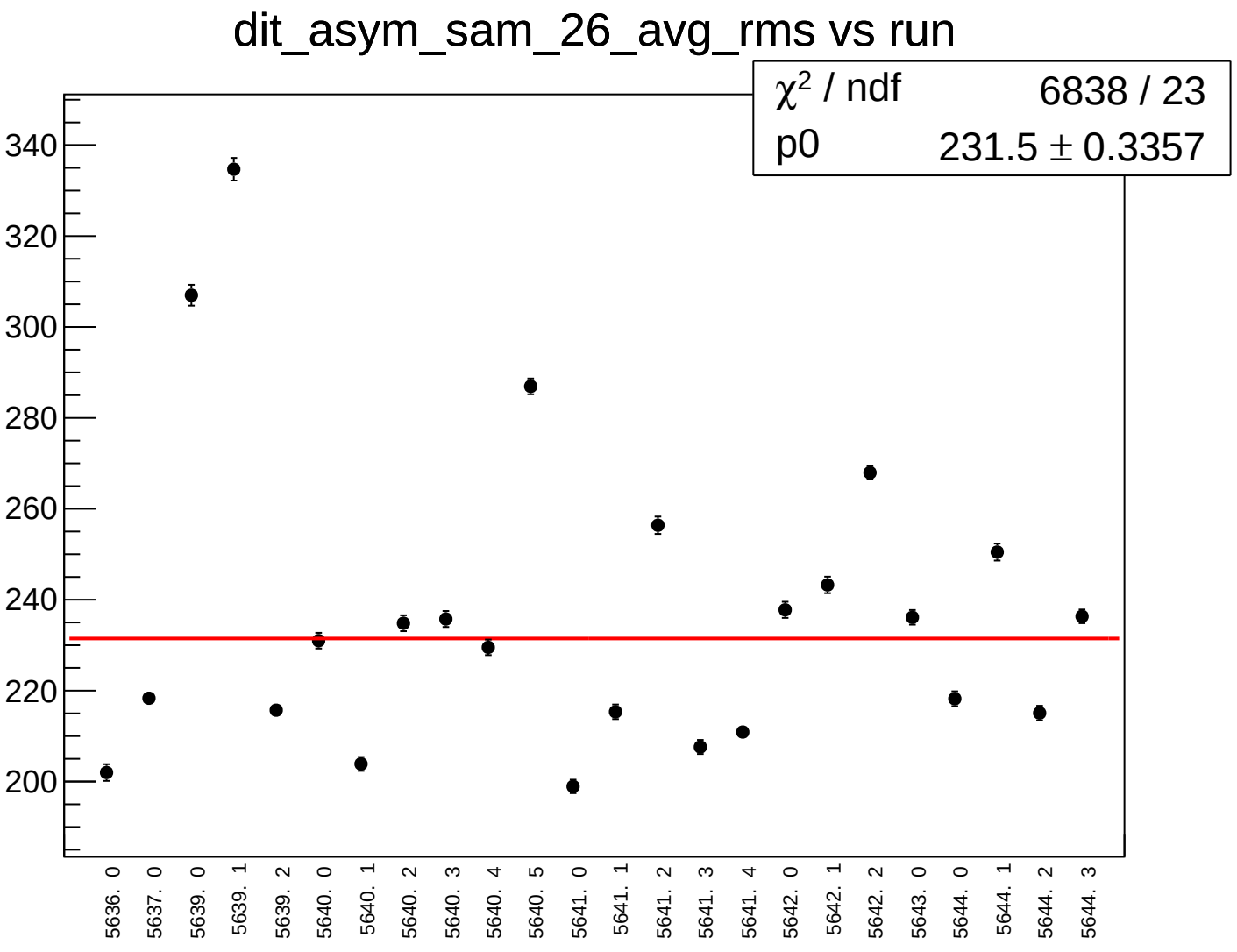

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 1.206e+04 / 23
p0 203.6 ± 0.2969
340
320
300
280
260
240
220
200
180
160
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

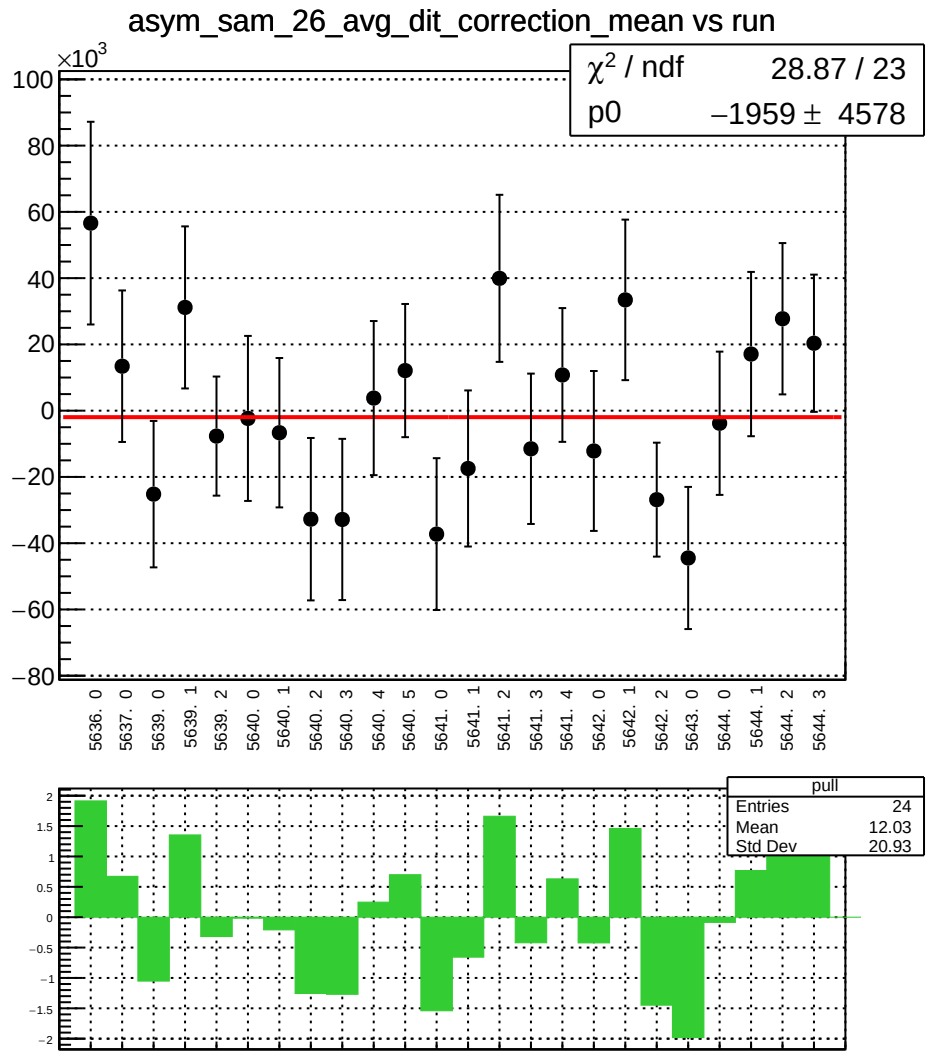

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 28.43 / 23
p0 −2061 ± 4521
80000
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 12.57
Std Dev 21.32
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.04431
Std Dev 1.088
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

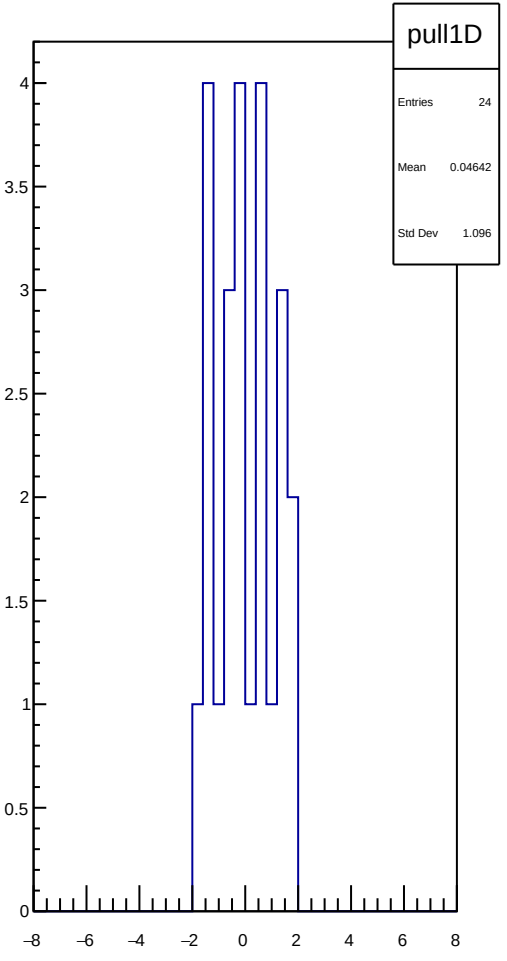

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 1327 / 23
p0 2217 ± 3.197
2500
2400
2300
2200
2100
2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

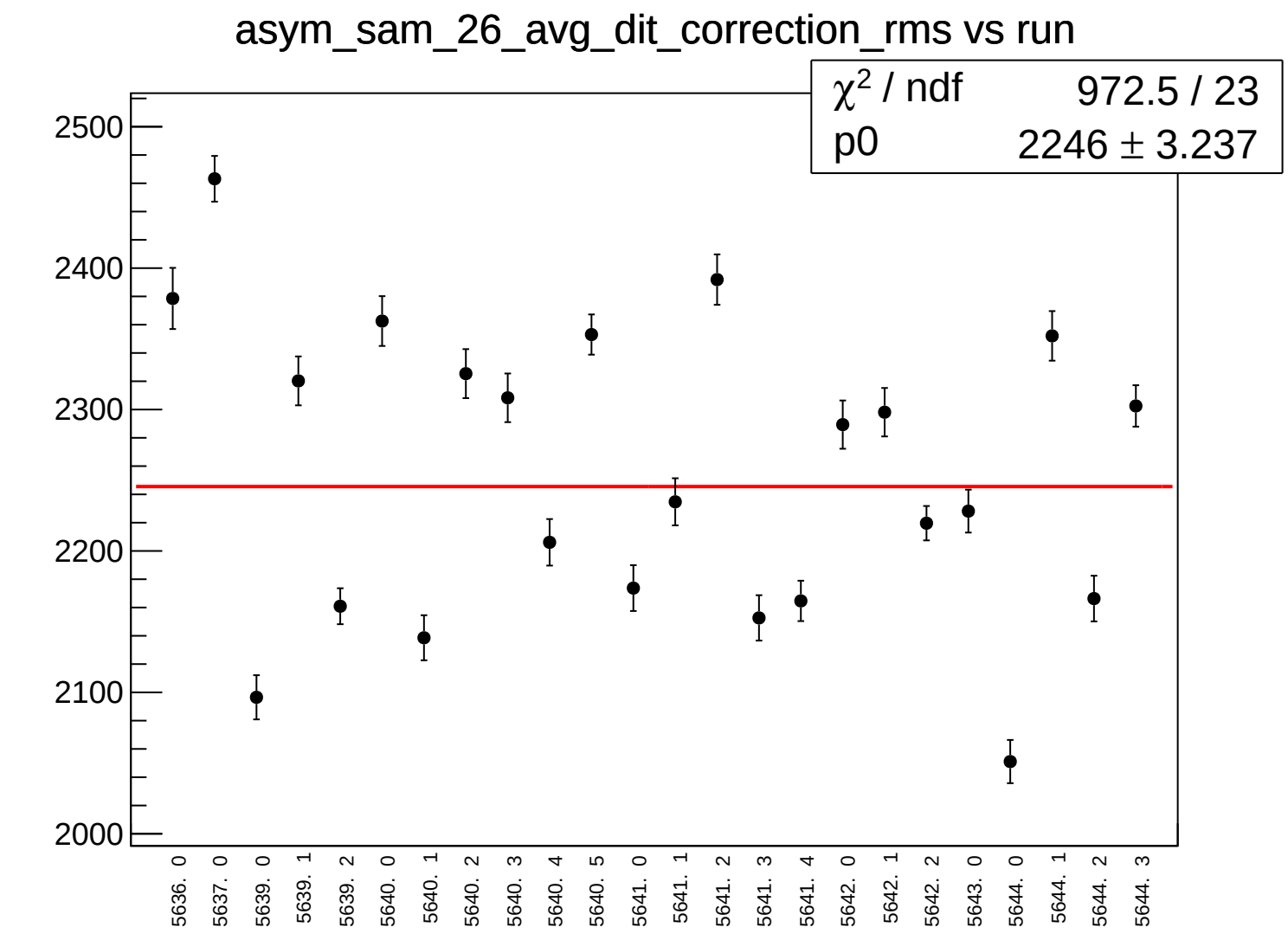

dit_asym_sam_26_avg_mean vs run
χ² / ndf 22.77 / 23
p0 162.2 ± 474.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −40.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

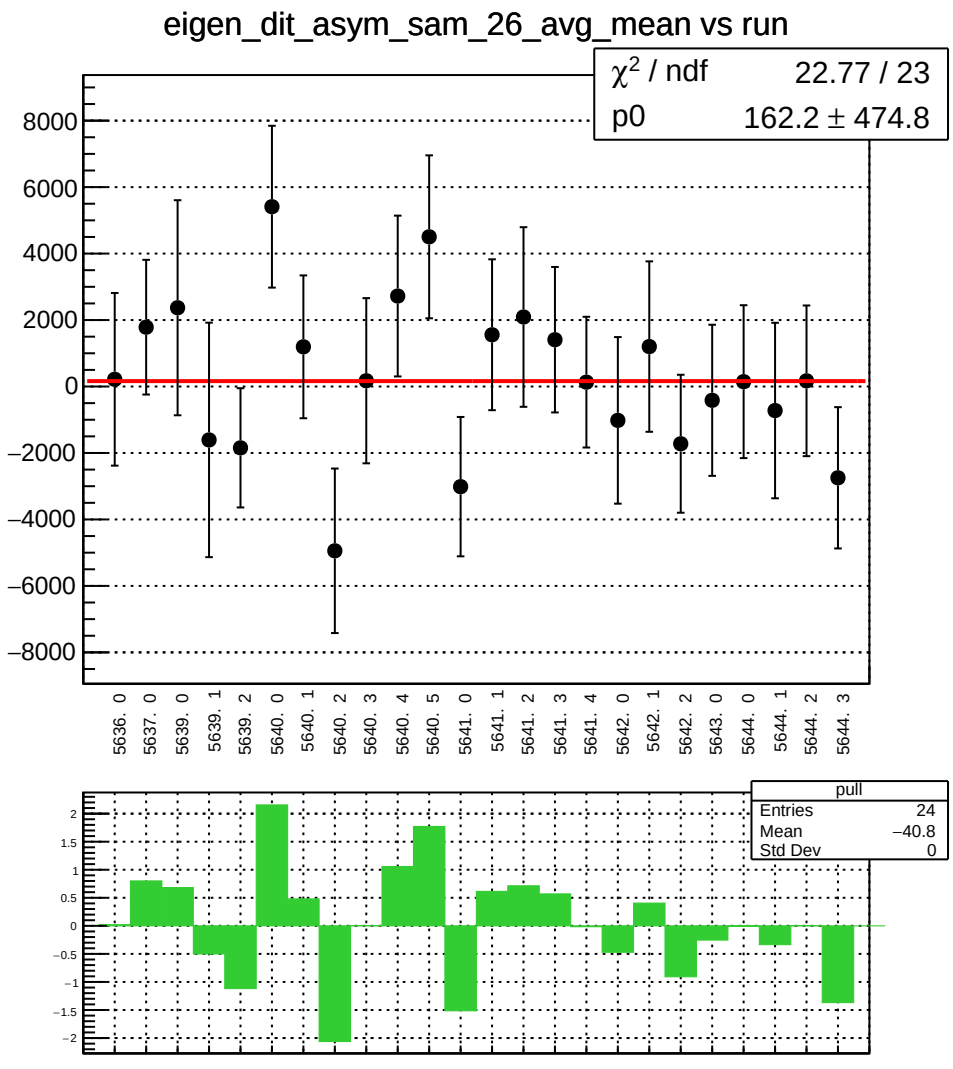

pull1D
Entries 24
Mean 0.03023
Std Dev 0.9735
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

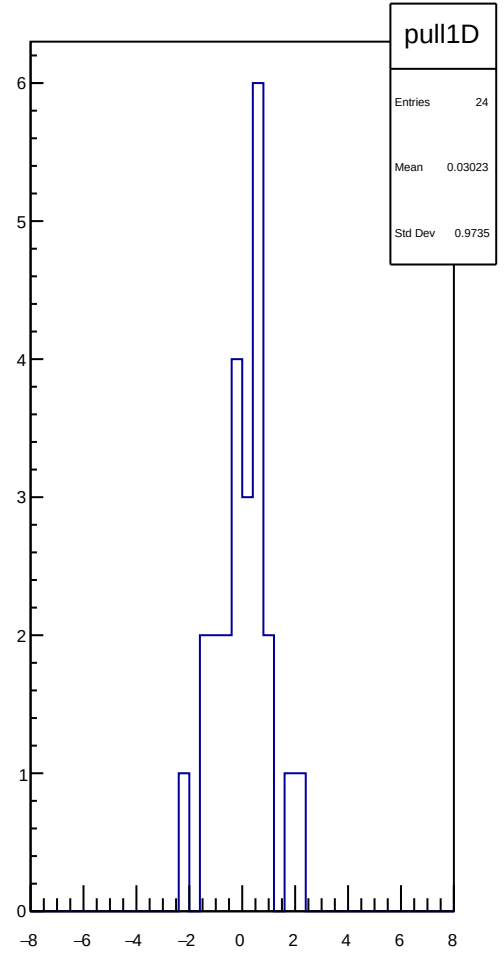

dit_asym_sam_26_avg_rms vs run
χ² / ndf 6838 / 23
p0 231.5 ± 0.3357
340
320
300
280
260
240
220
200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

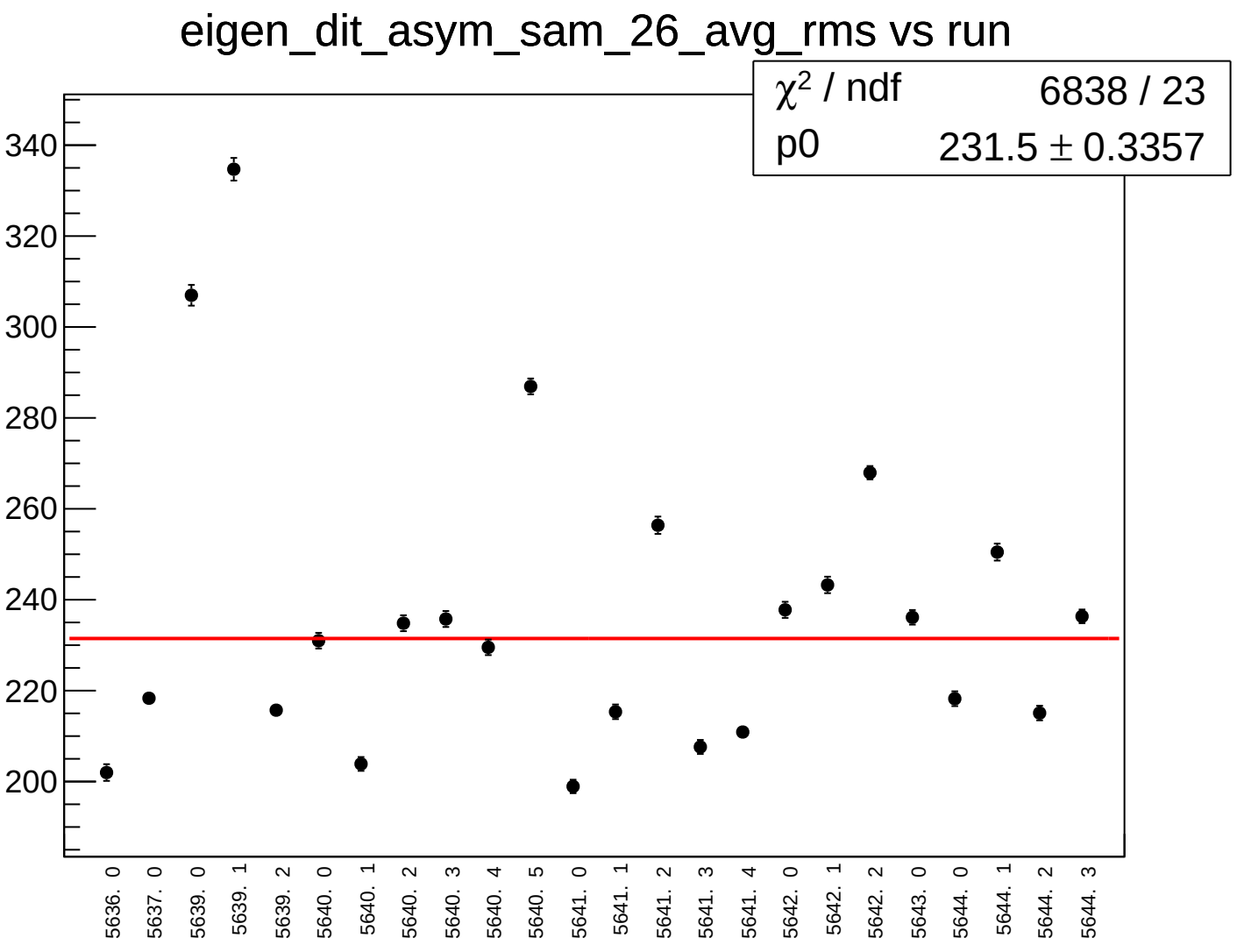

asym_sam_26_avg_dit_correction_mean vs run
×10^3
χ² / ndf 28.87 / 23
p0 −1959 ± 4578
100
80
60
40
20
0
−20
−40
−60
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 12.03
Std Dev 20.93
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

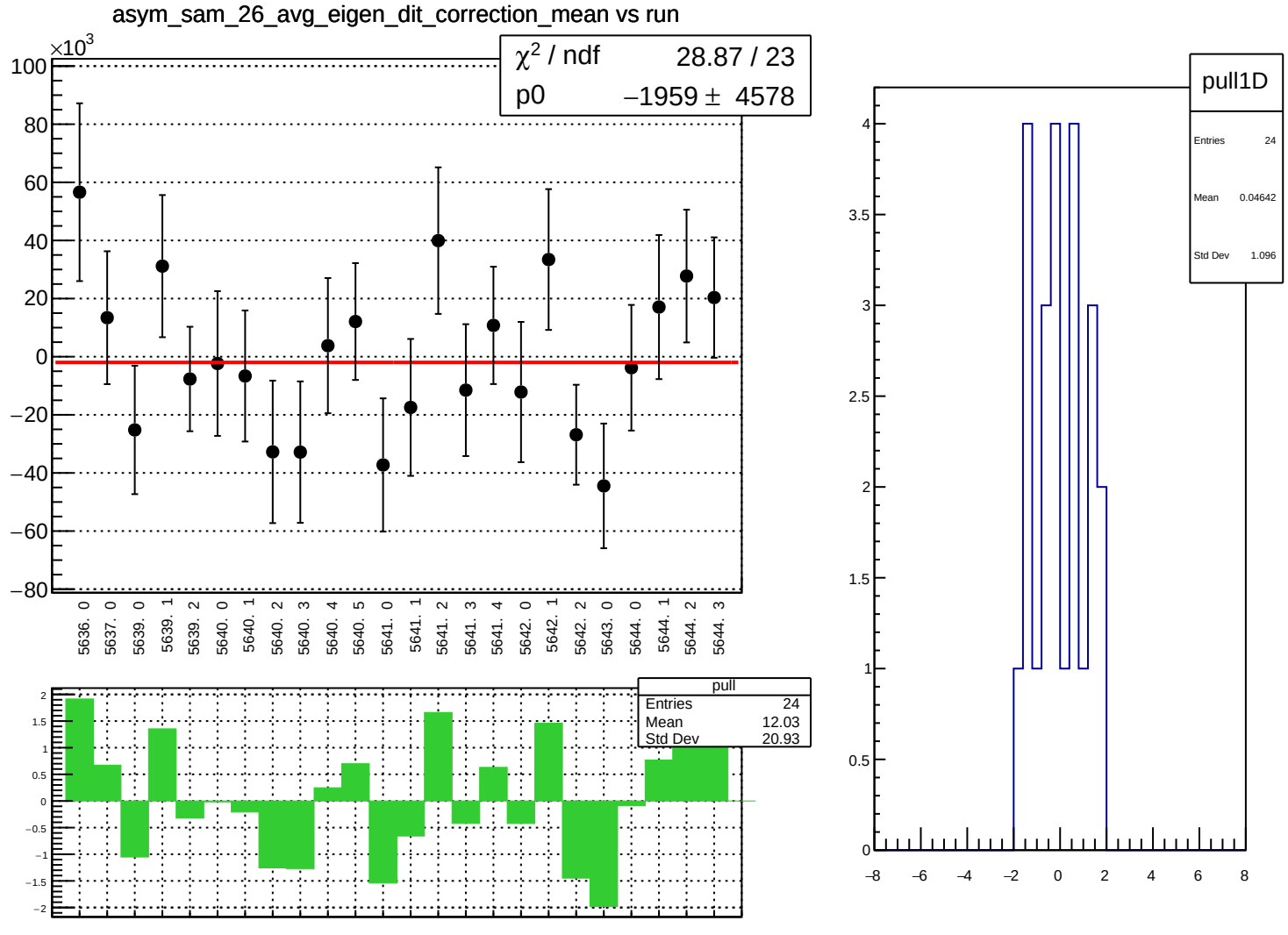

pull1D
Entries 24
Mean 0.04642
Std Dev 1.096
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

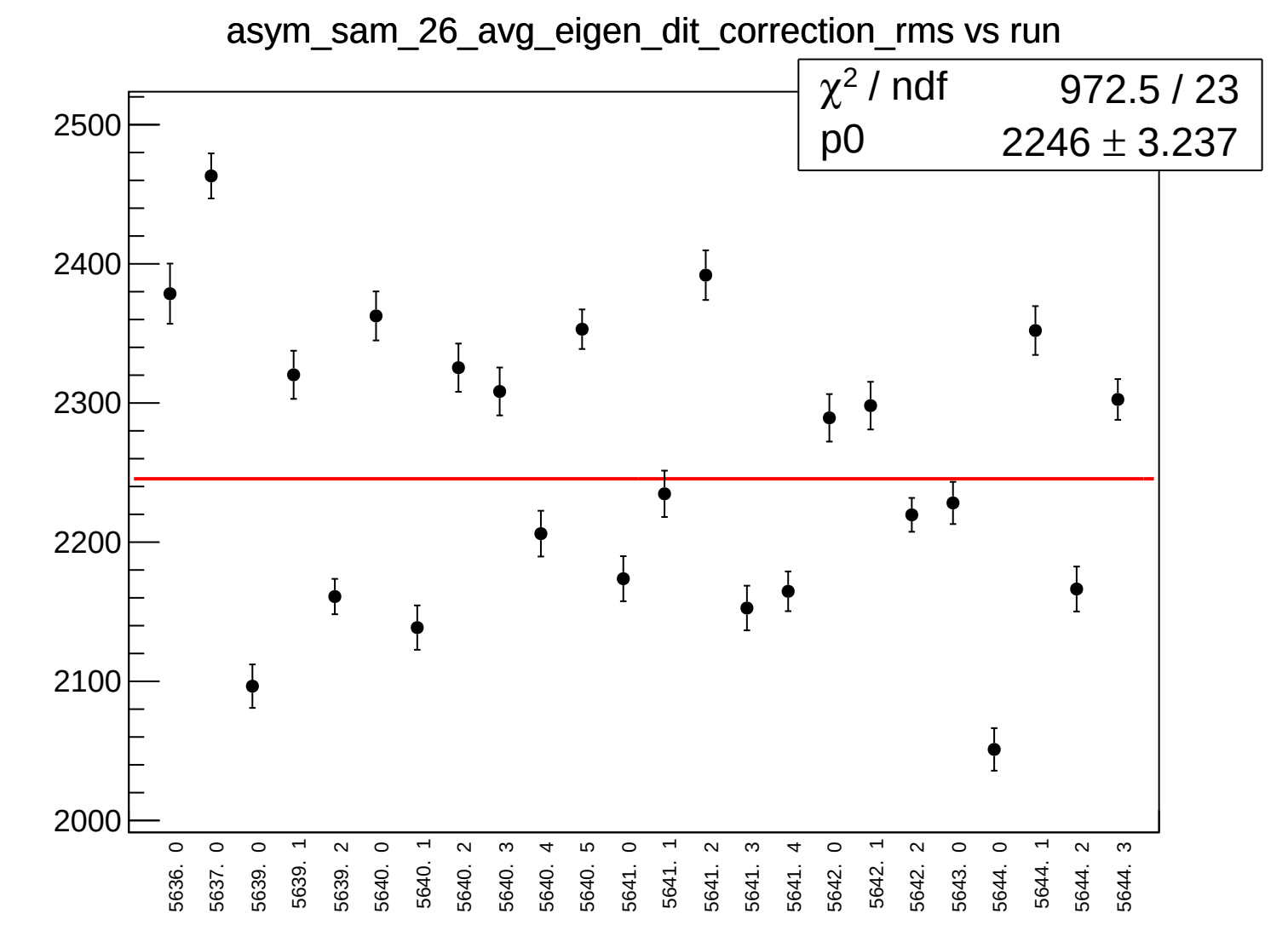

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 972.5 / 23
p0 2246 ± 3.237
2500
2400
2300
2200
2100
2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

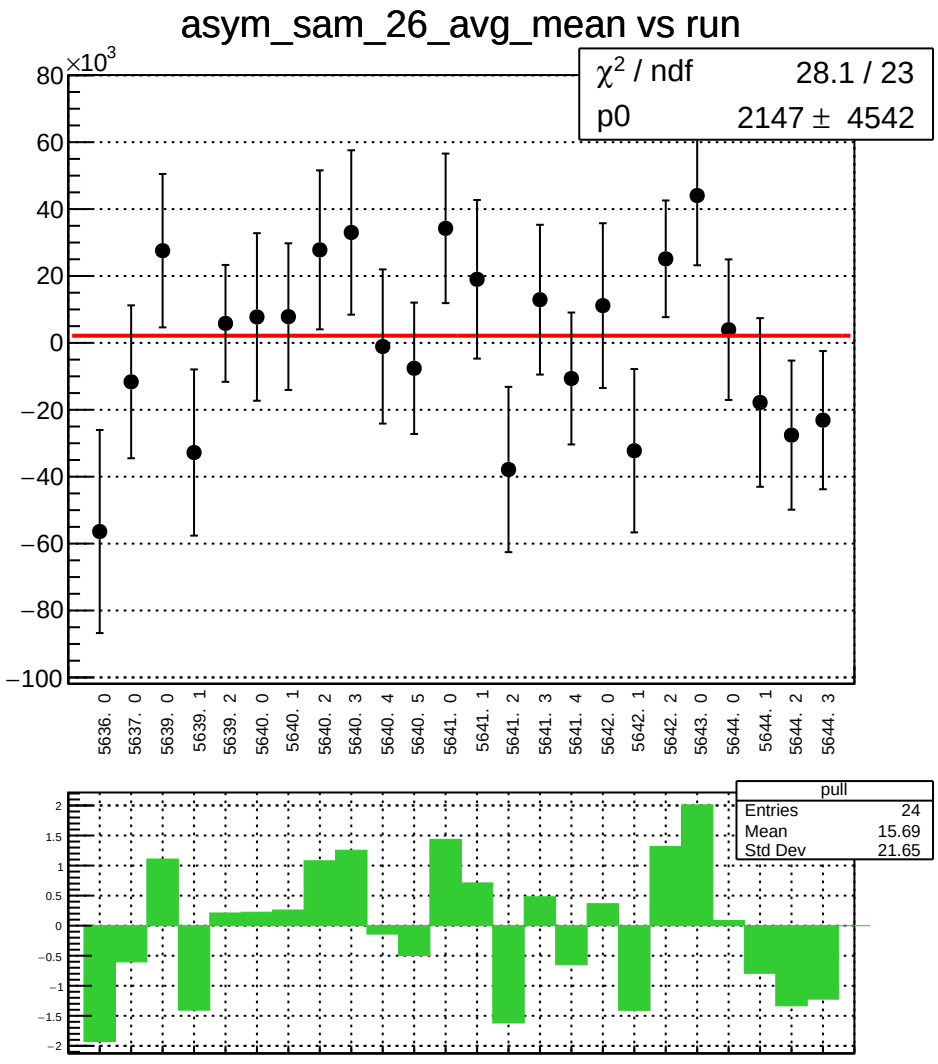

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 22.77 / 23
p0 162.2 ± 474.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −40.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

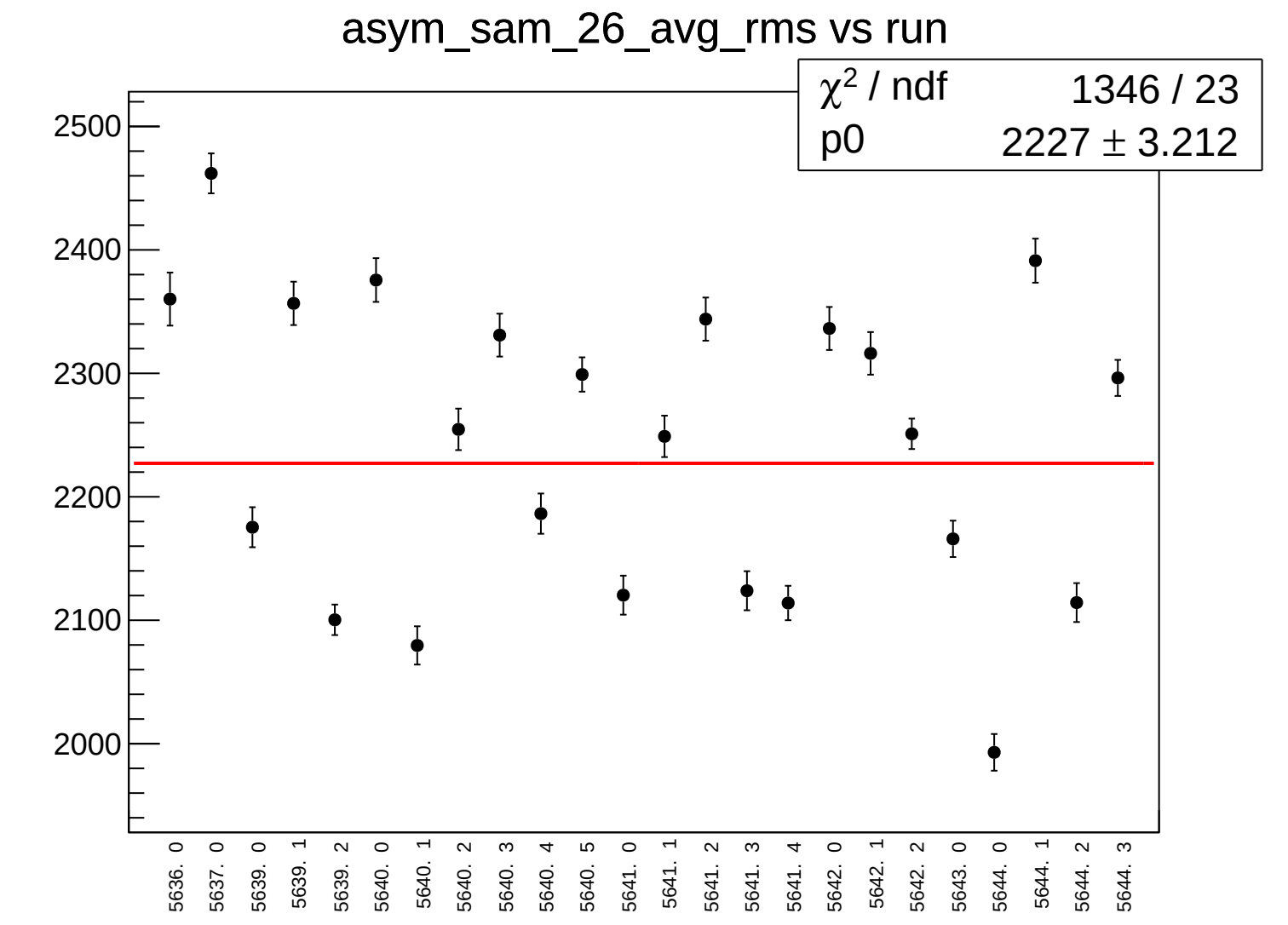

pull1D
Entries 24
Mean 0.03023
Std Dev 0.9735
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

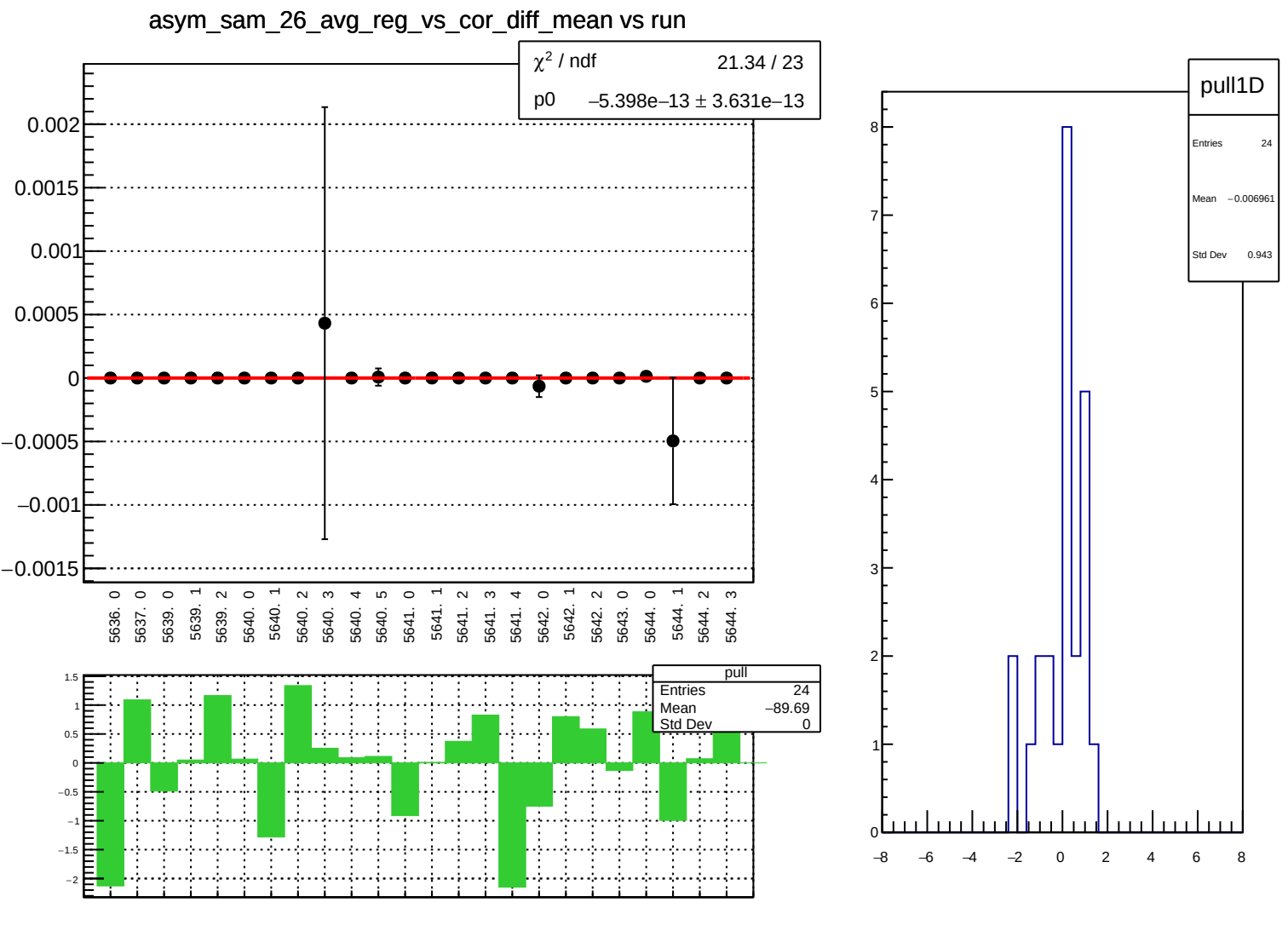

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 6838 / 23
p0 231.5 ± 0.3357
340
320
300
280
260
240
220
200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

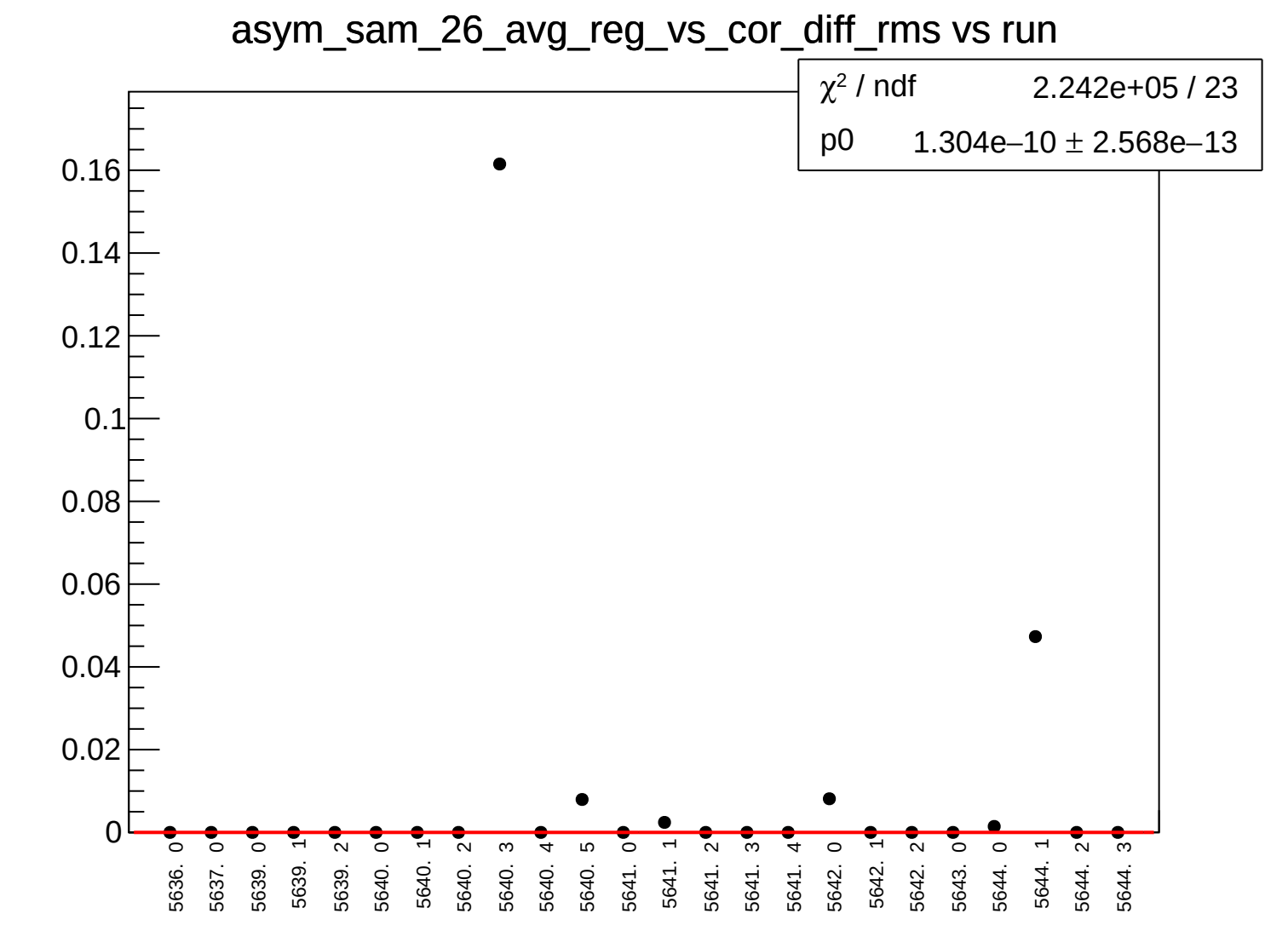

asym_sam_26_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 28.87 / 23
p0 −1959 ± 4578
100
80
60
40
20
0
−20
−40
−60
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 12.03
Std Dev 20.93
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.04642
Std Dev 1.096
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

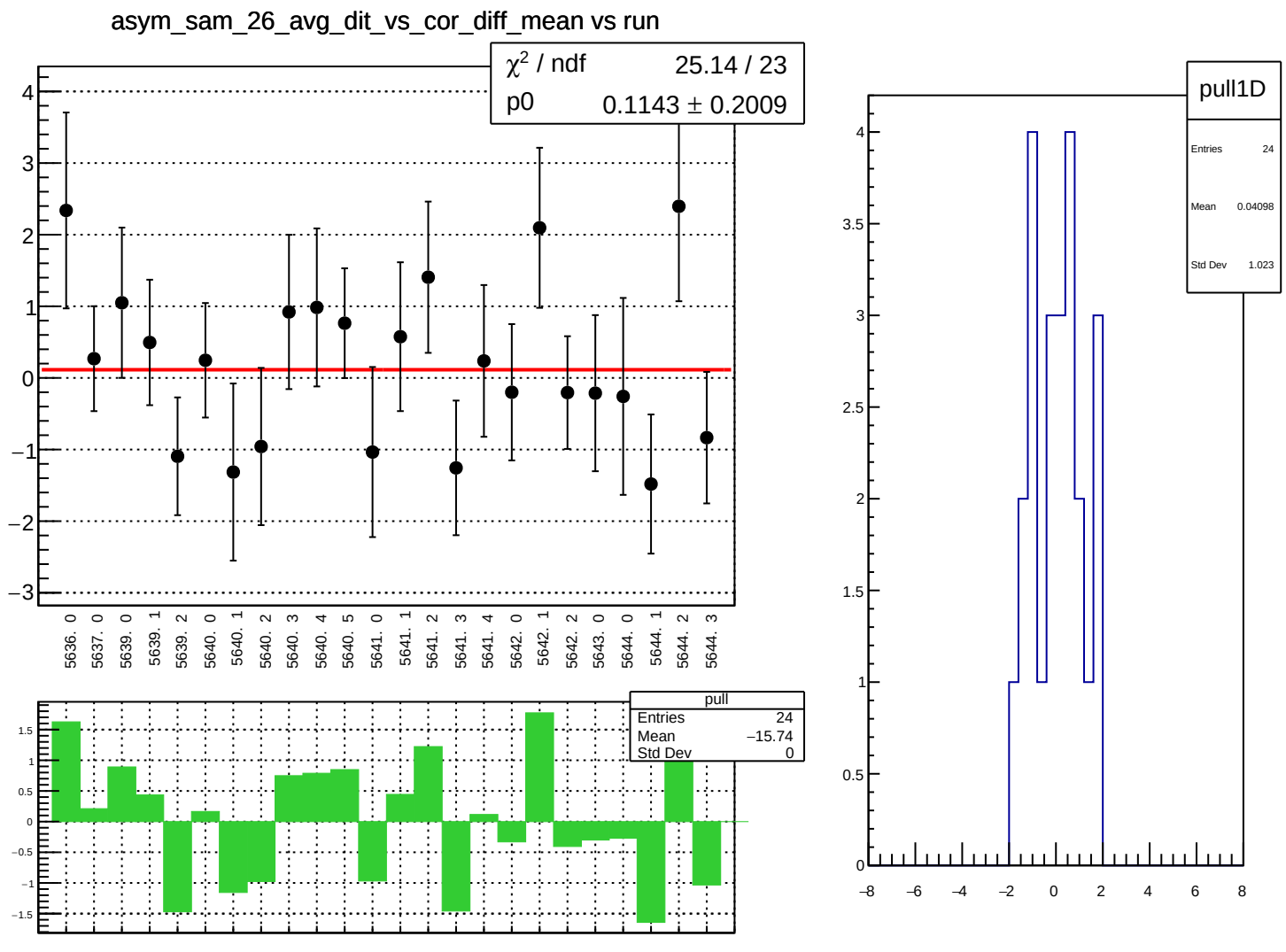

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 972.5 / 23
p0 2246 ± 3.237
2500
2400
2300
2200
2100
2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

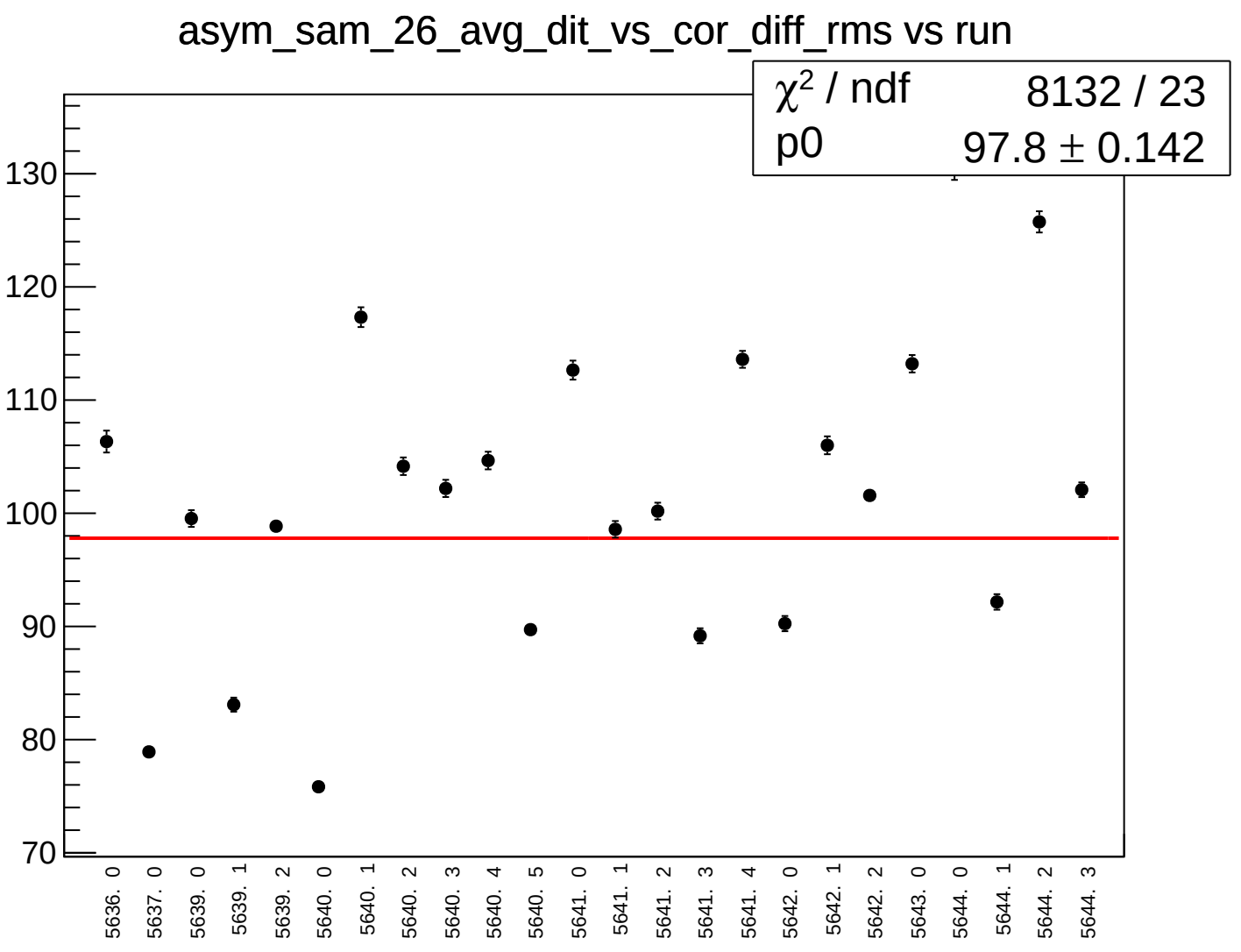

asym_sam_26_avg_mean vs run
χ² / ndf 28.1 / 23
p0 2147 ± 4542
×10³
80
60
40
20
0
−20
−40
−60
−80
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 15.69
Std Dev 21.65
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.04378
Std Dev 1.081
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_avg_rms vs run
χ² / ndf 1346 / 23
p0 2227 ± 3.212
2500
2400
2300
2200
2100
2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 21.34 / 23
p0 −5.398e−13 ± 3.631e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −89.69
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.006961
Std Dev 0.943
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.242e+05 / 23
p0 1.304e−10 ± 2.568e−13
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 25.14 / 23
p0 0.1143 ± 0.2009
4
3
2
1
0
−1
−2
−3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −15.74
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.04098
Std Dev 1.023
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8132 / 23
p0 97.8 ± 0.142
130
120
110
100
90
80
70
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5642. 0
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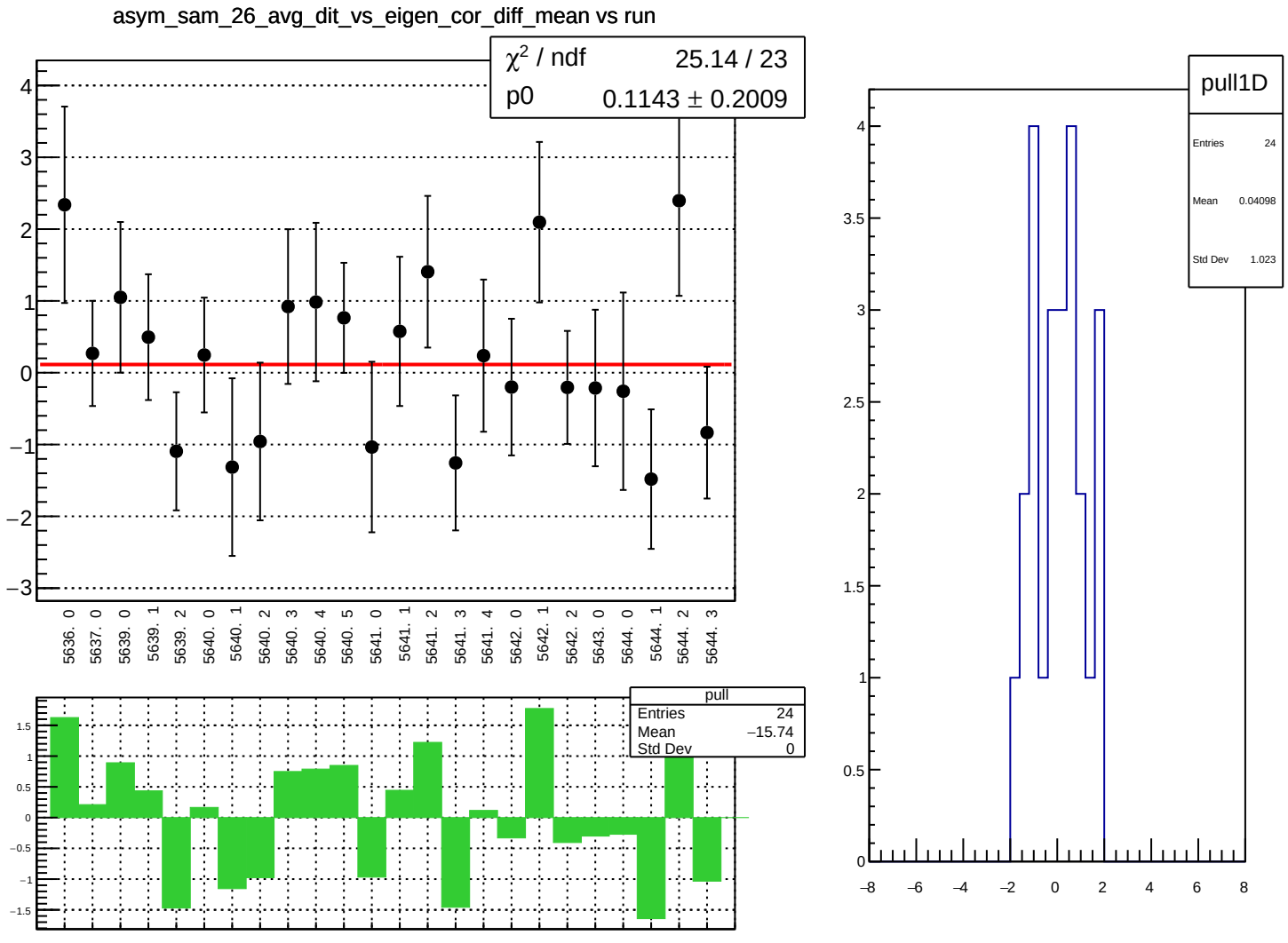
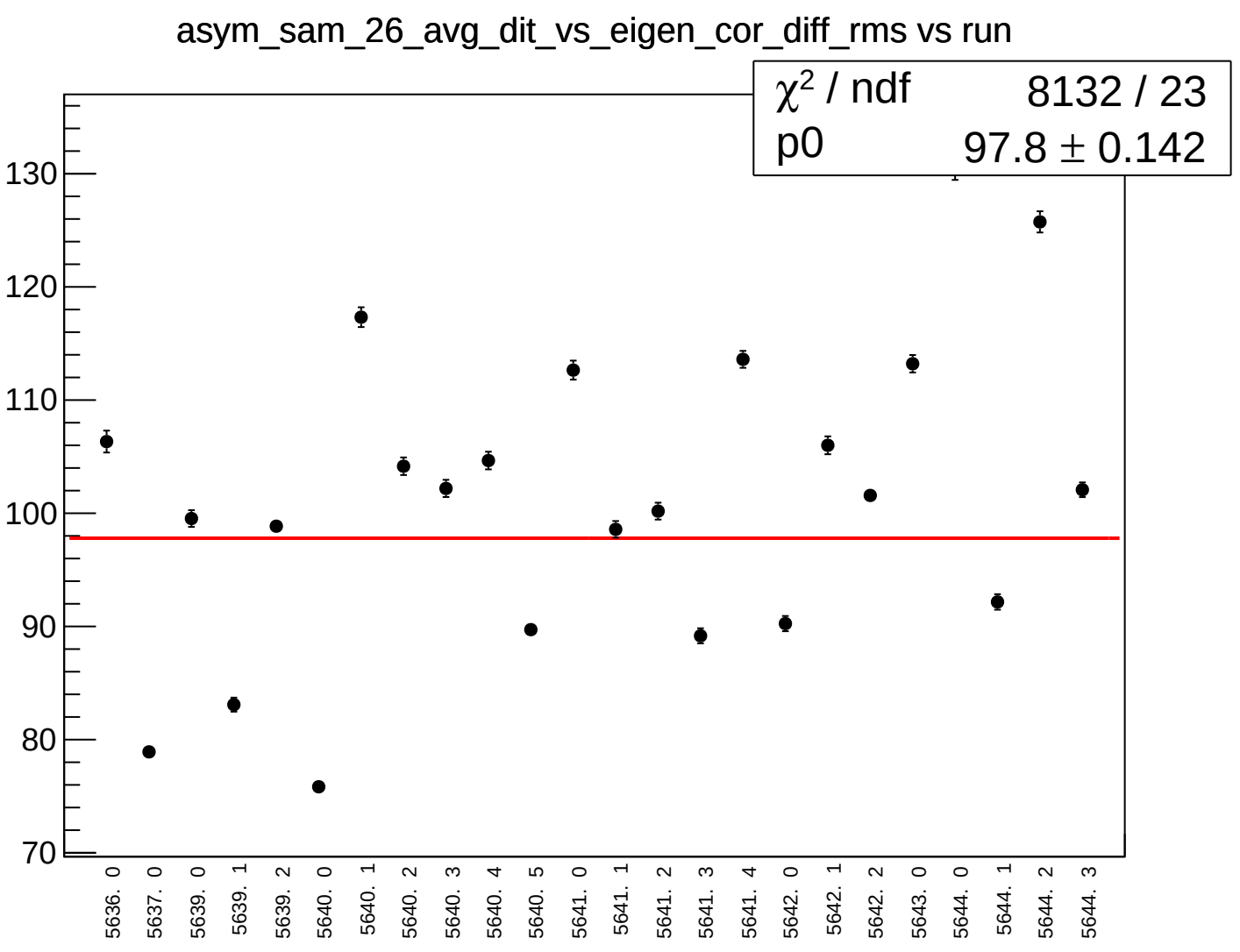
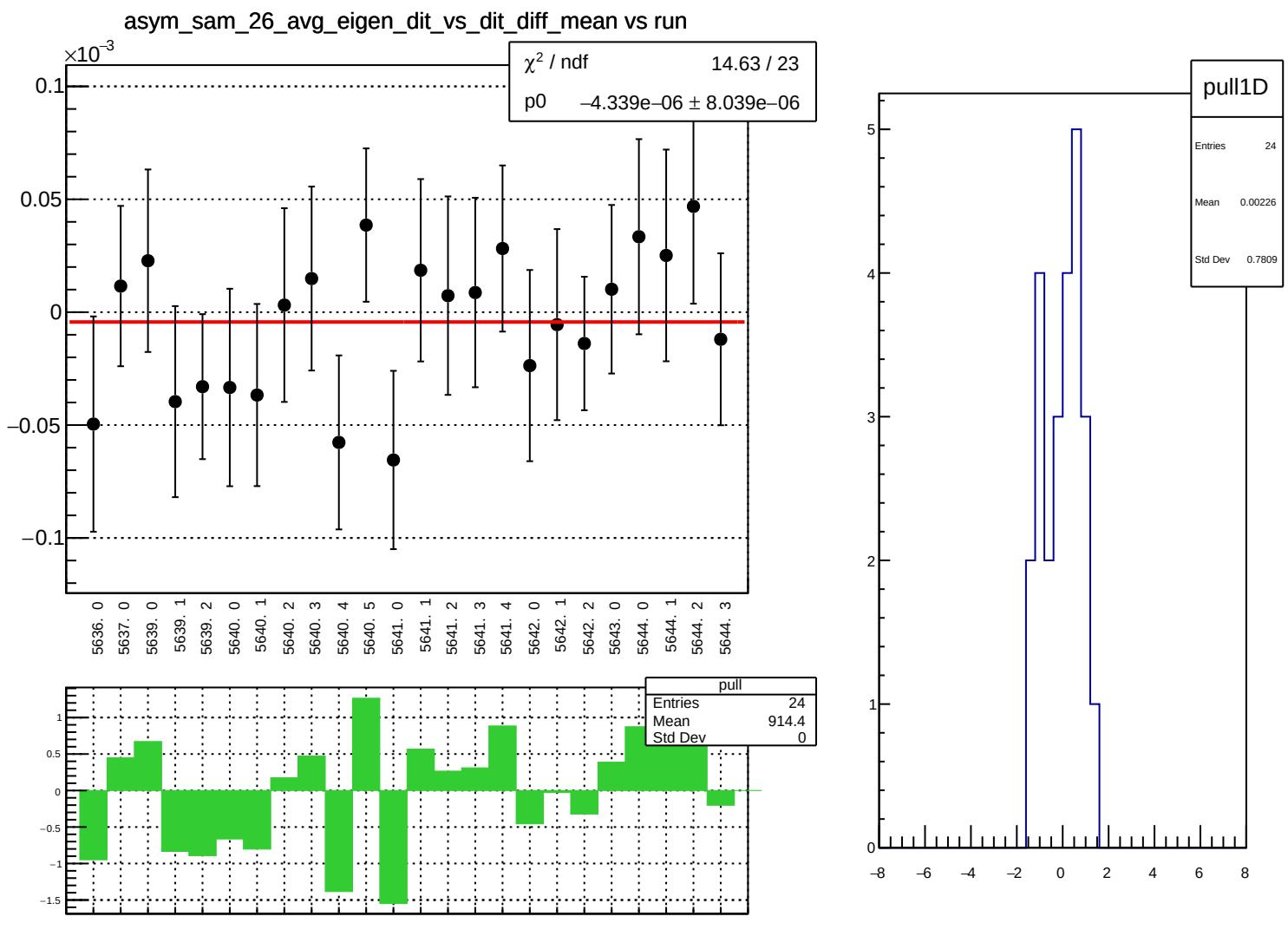
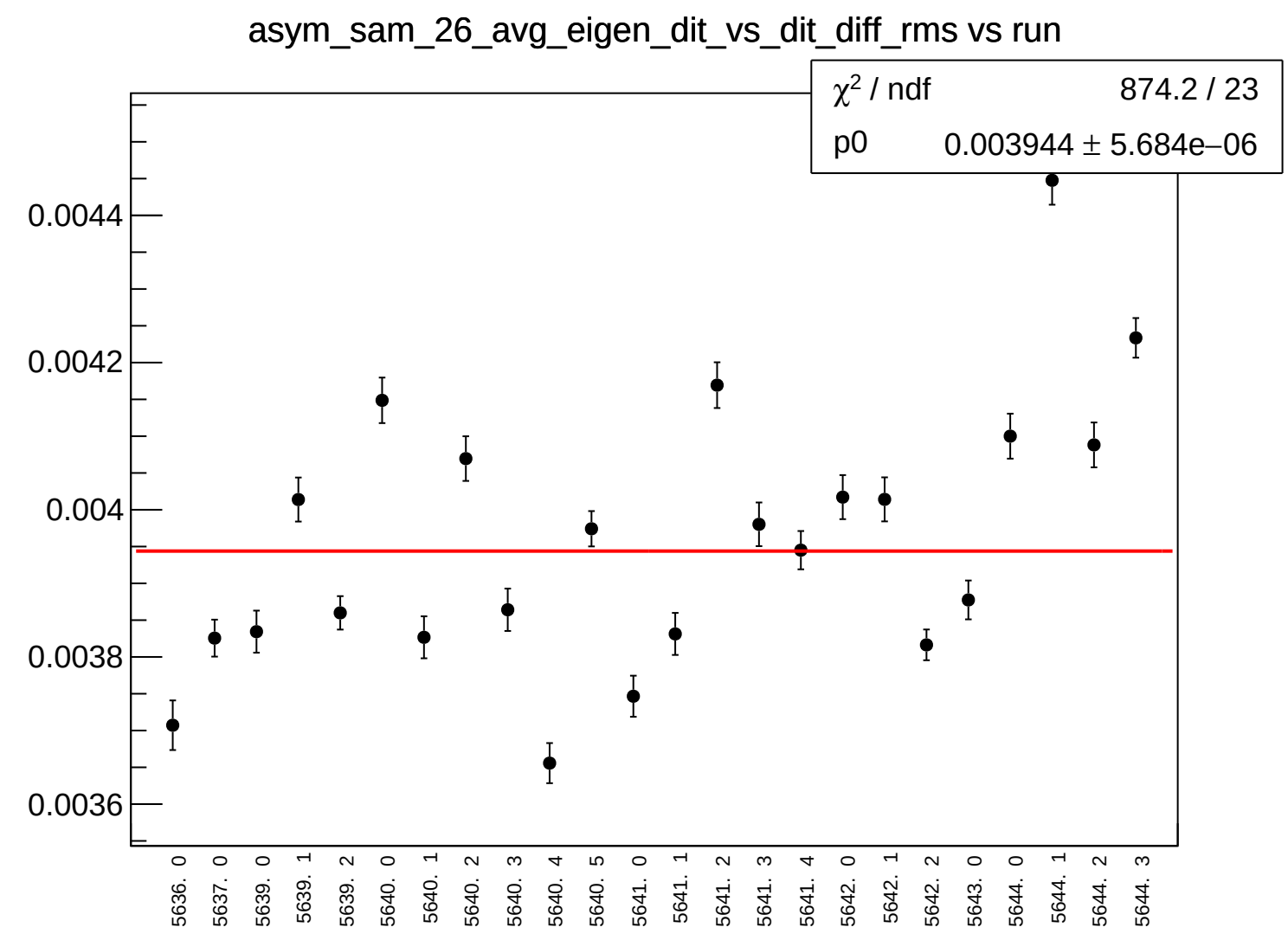
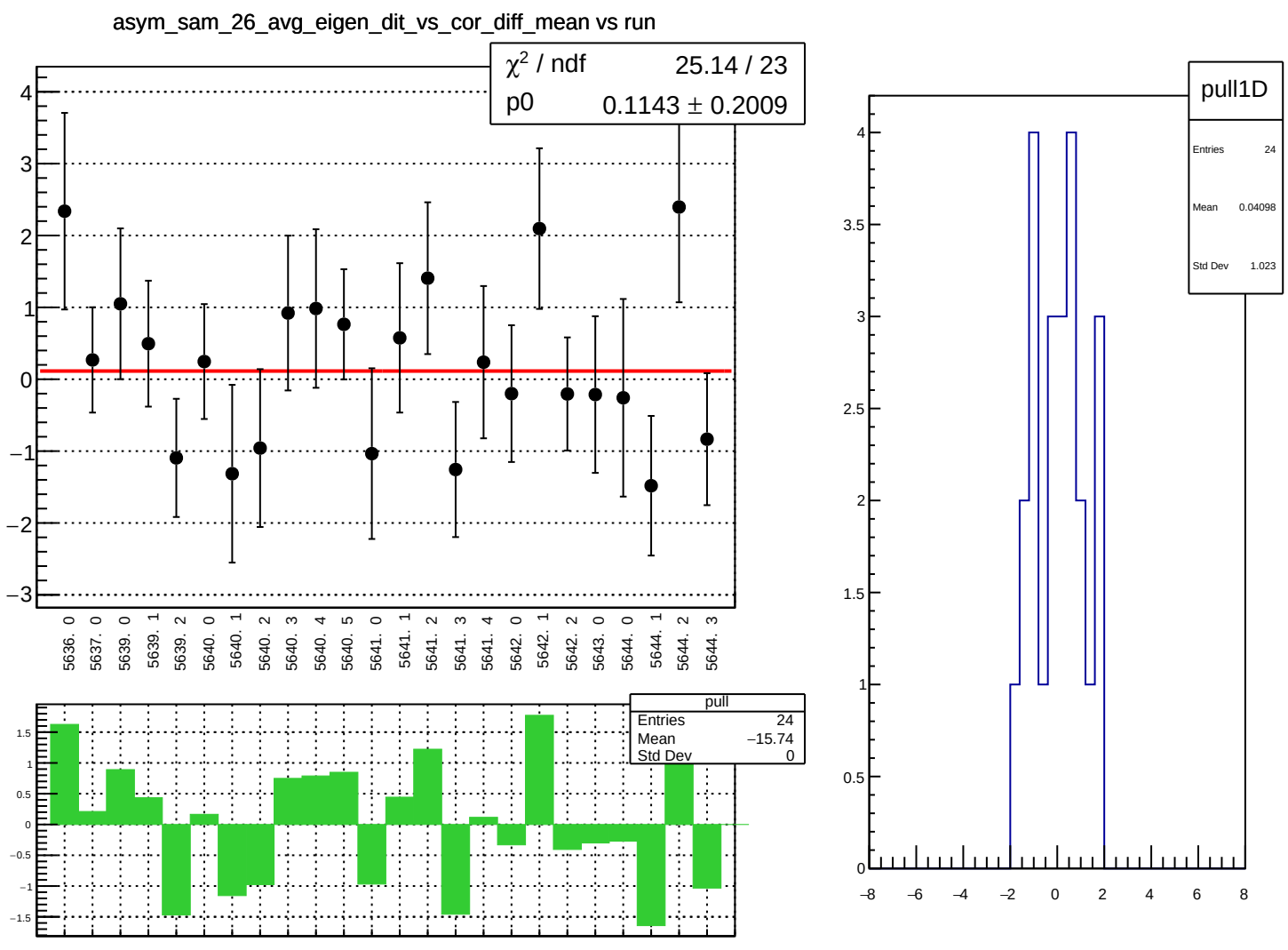
5644. 2
5644. 3

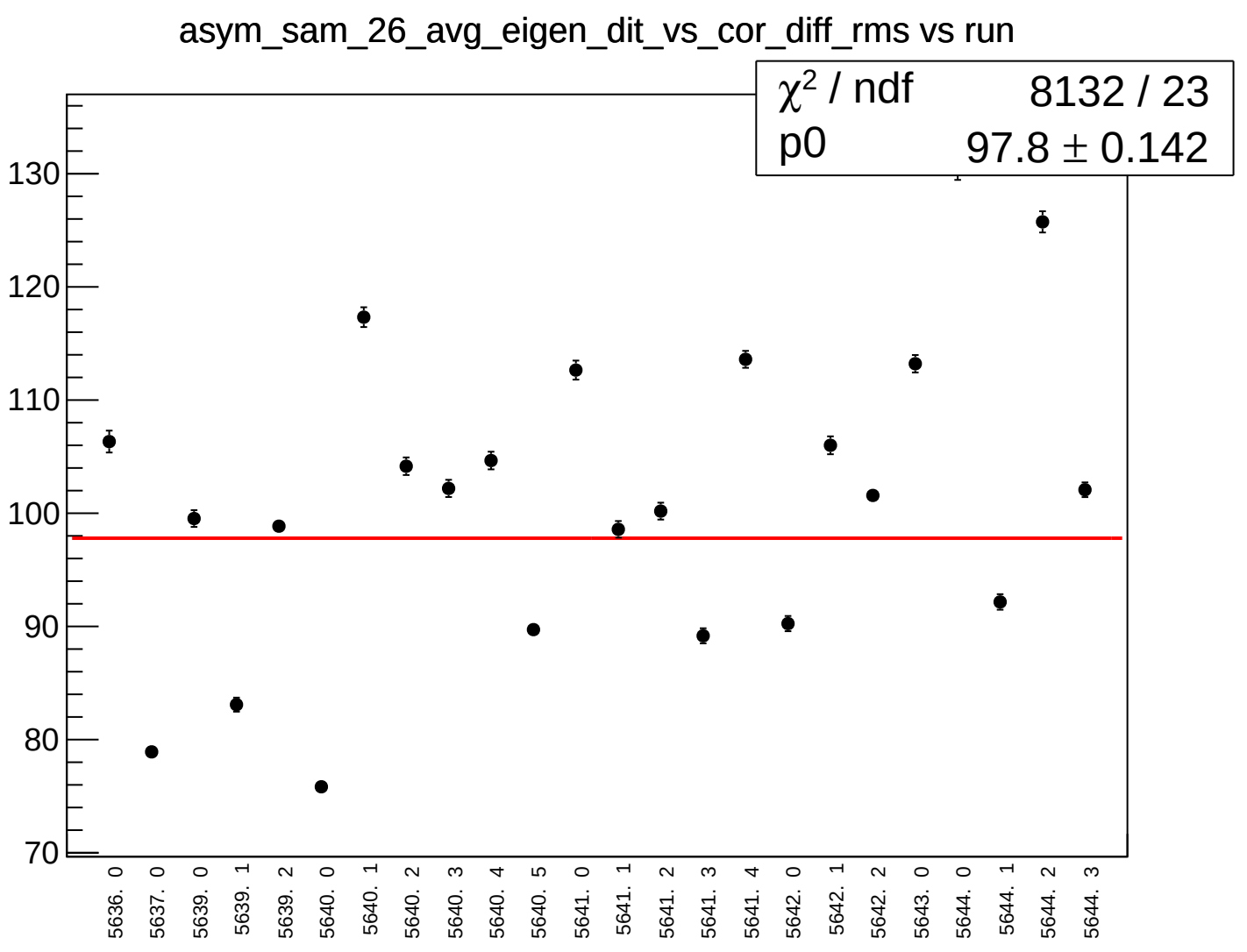

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.14 / 23
p0 0.1143 ± 0.2009
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −15.74
Std Dev 0
pull1D
Entries 24
Mean 0.04098
Std Dev 1.023

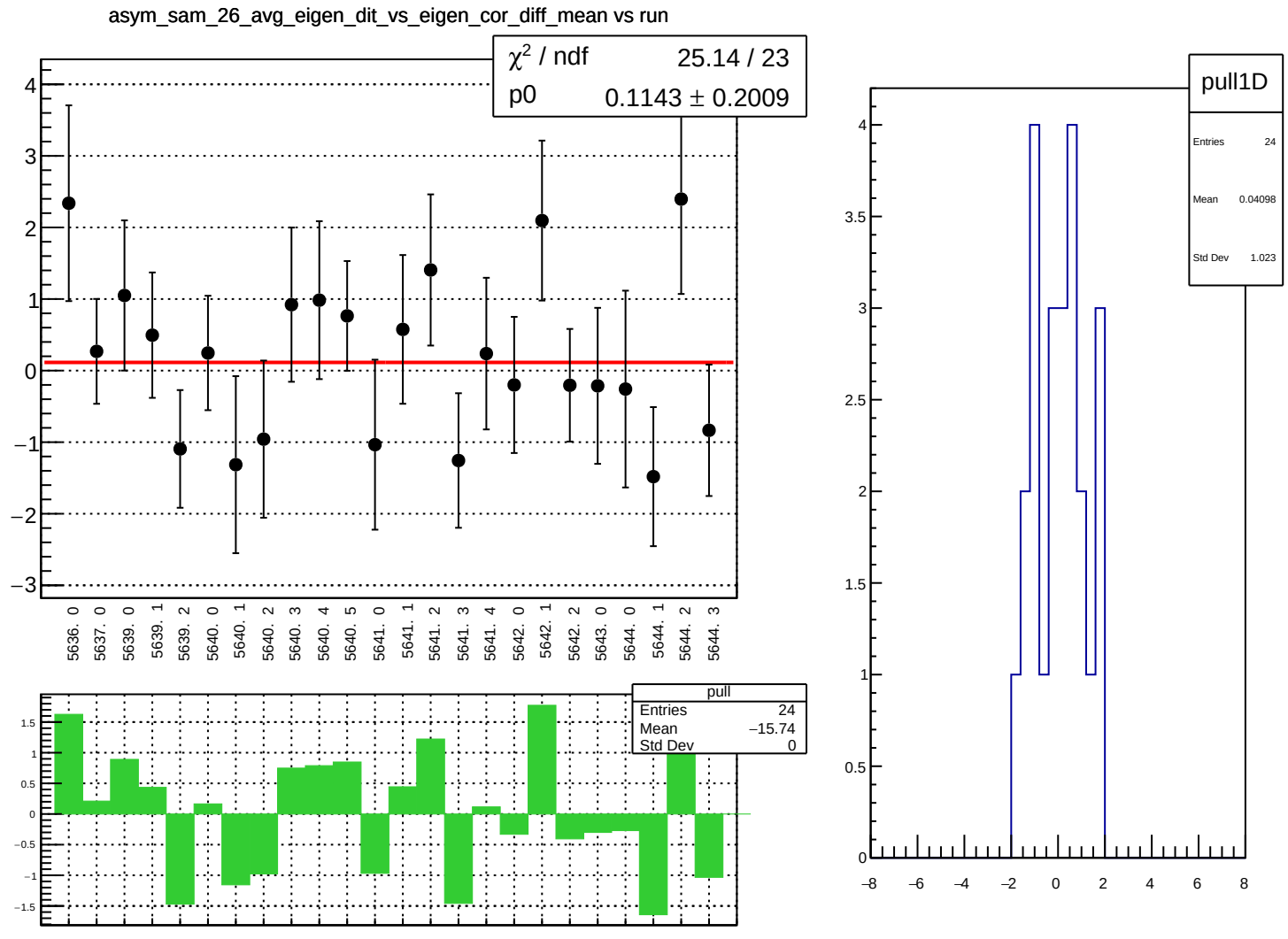

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8132 / 23
p0 97.8 ± 0.142
130
120
110
100
90
80
70
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

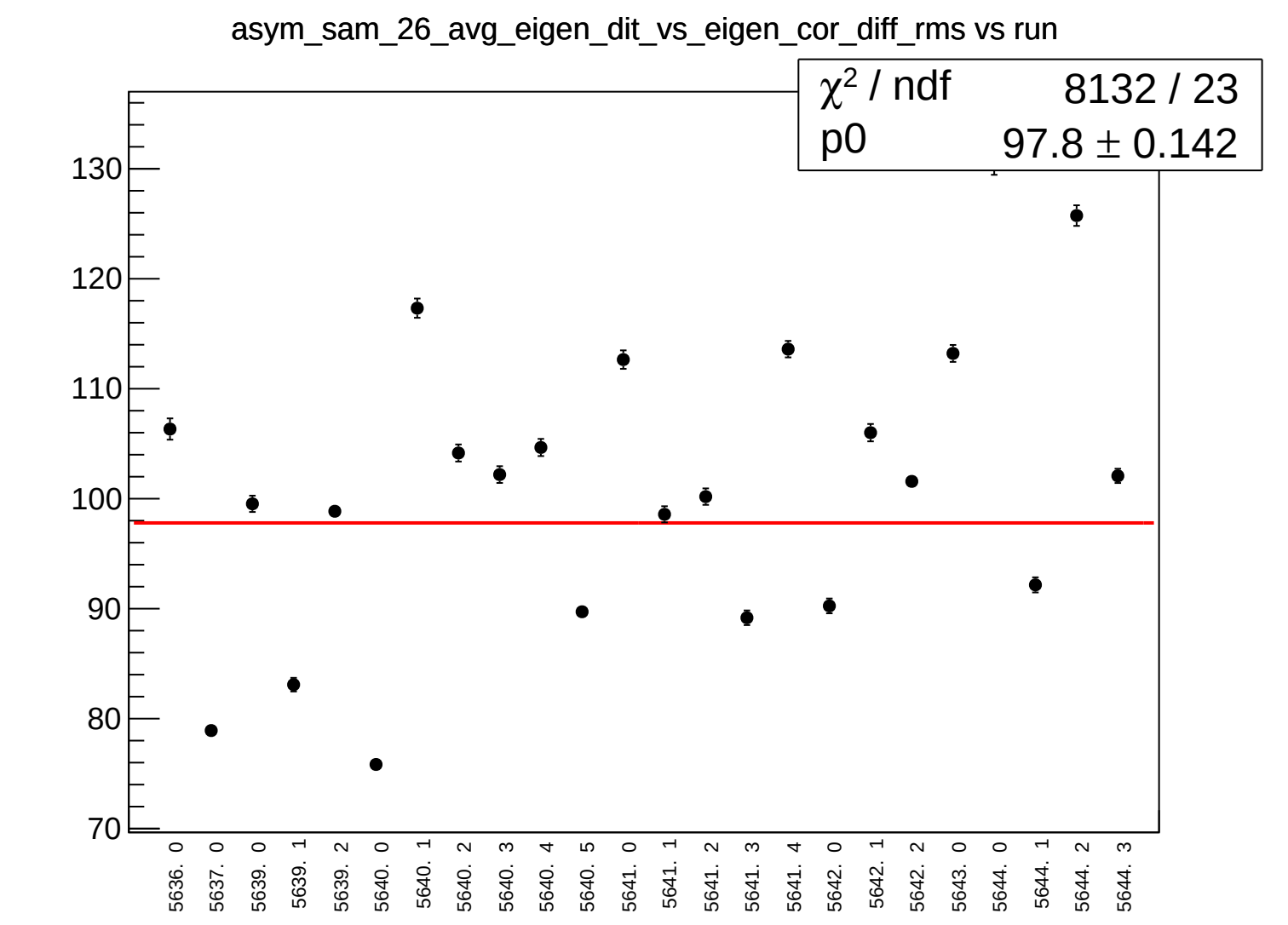

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 14.63 / 23
p0 −4.339e−06 ± 8.039e−06
0.1
0.05
0
−0.05
−0.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 914.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.00226
Std Dev 0.7809
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

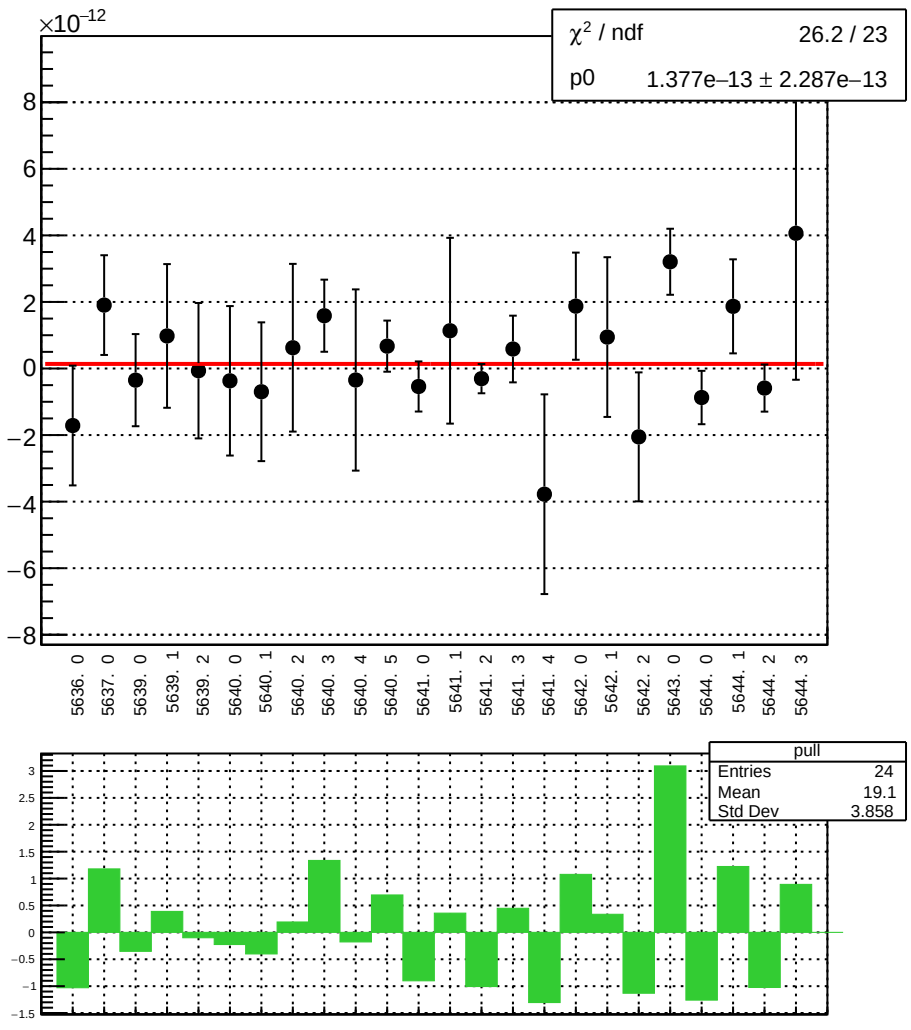

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 874.2 / 23
p0 0.003944 ± 5.684e−06
0.0044
0.0042
0.004
0.0038
0.0036
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

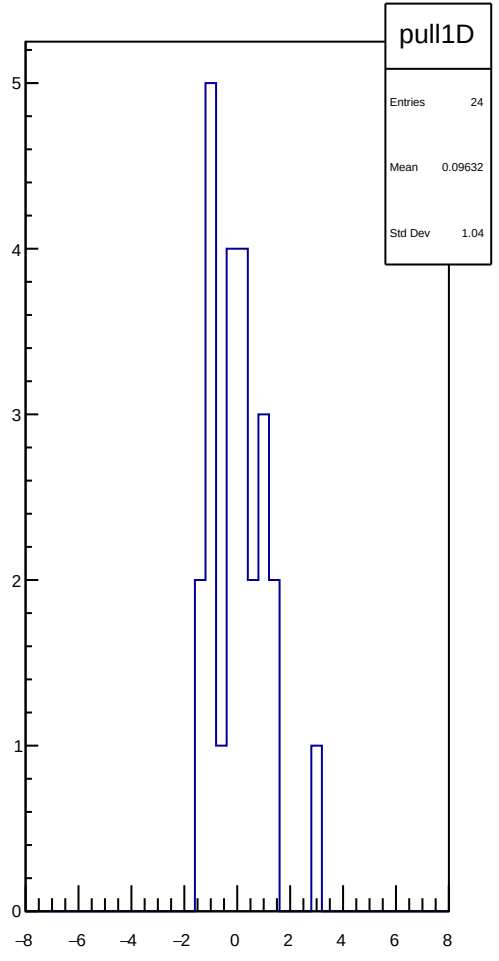

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 25.14 / 23
p0 0.1143 ± 0.2009
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −15.74
Std Dev 0
pull1D
Entries 24
Mean 0.04098
Std Dev 1.023

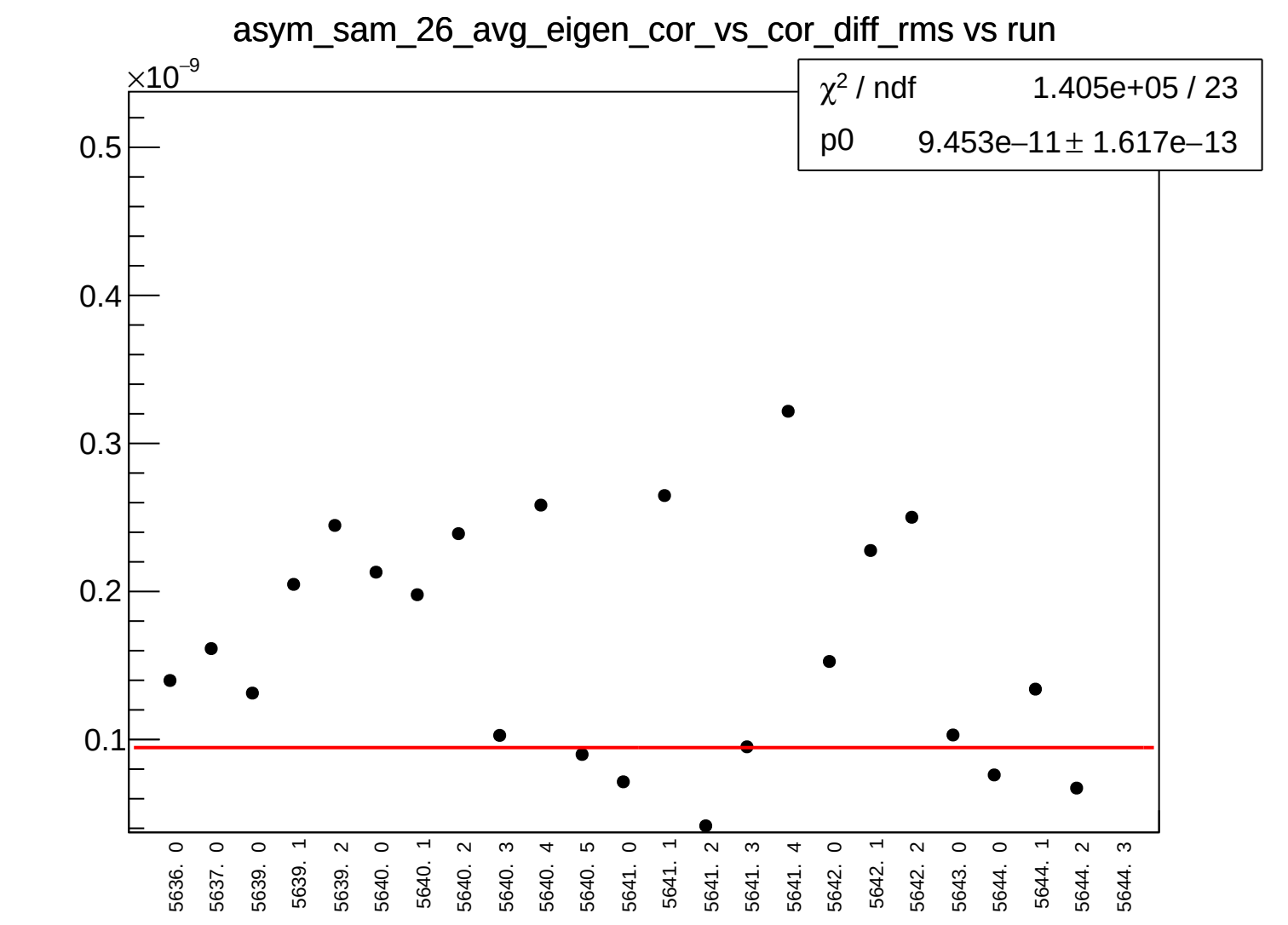

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8132 / 23
p0 97.8 ± 0.142
130
120
110
100
90
80
70
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

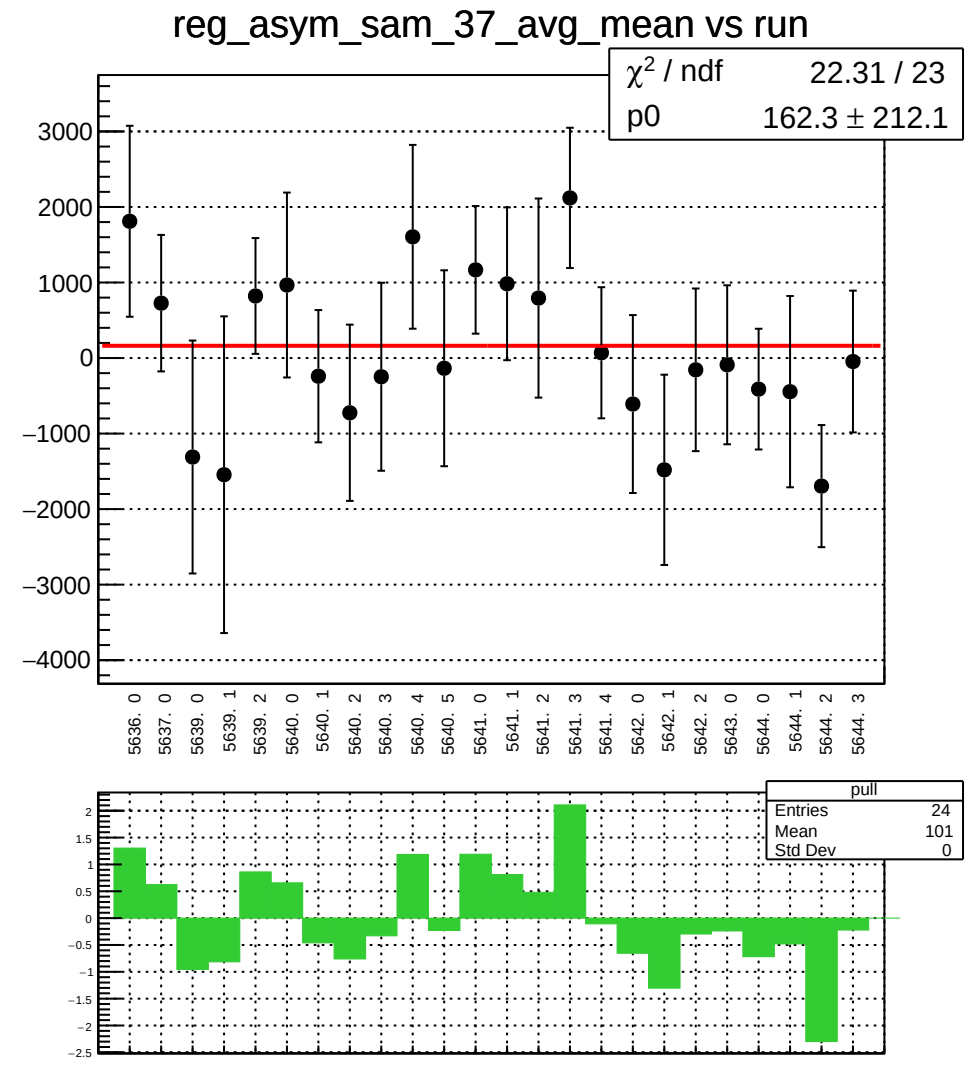

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.14 / 23
p0 0.1143 ± 0.2009
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −15.74
Std Dev 0
pull1D
Entries 24
Mean 0.04098
Std Dev 1.023

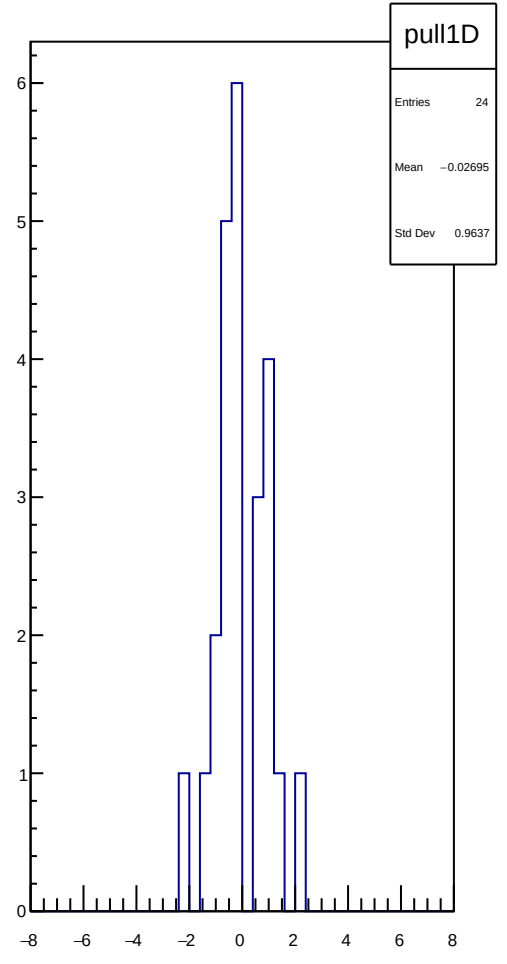

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8132 / 23
p0 97.8 ± 0.142
130
120
110
100
90
80
70
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

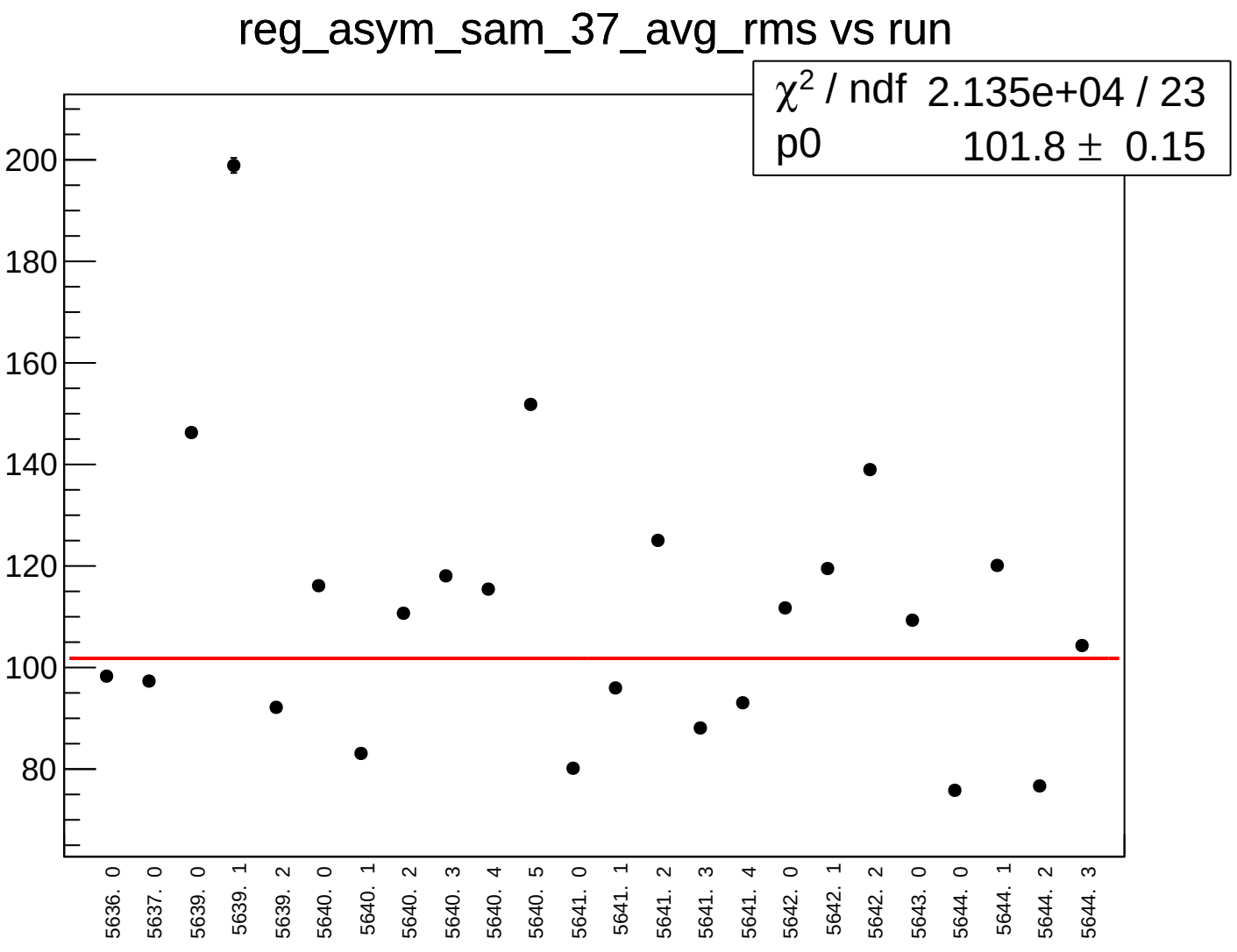

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 26.2 / 23
p0 1.377e−13 ± 2.287e−13
8
6
4
2
0
−2
−4
−6
−8
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 19.1
Std Dev 3.858
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

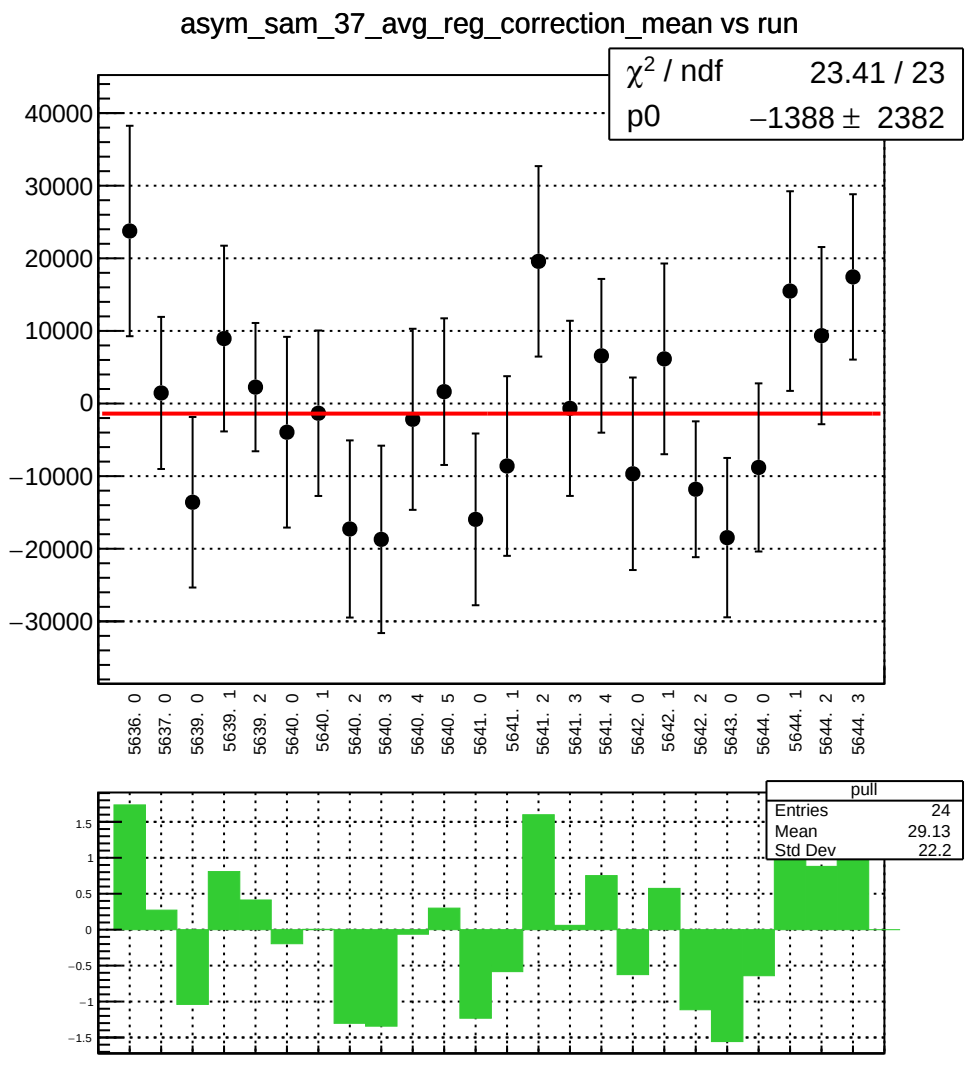

pull1D
Entries 24
Mean 0.09632
Std Dev 1.04
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

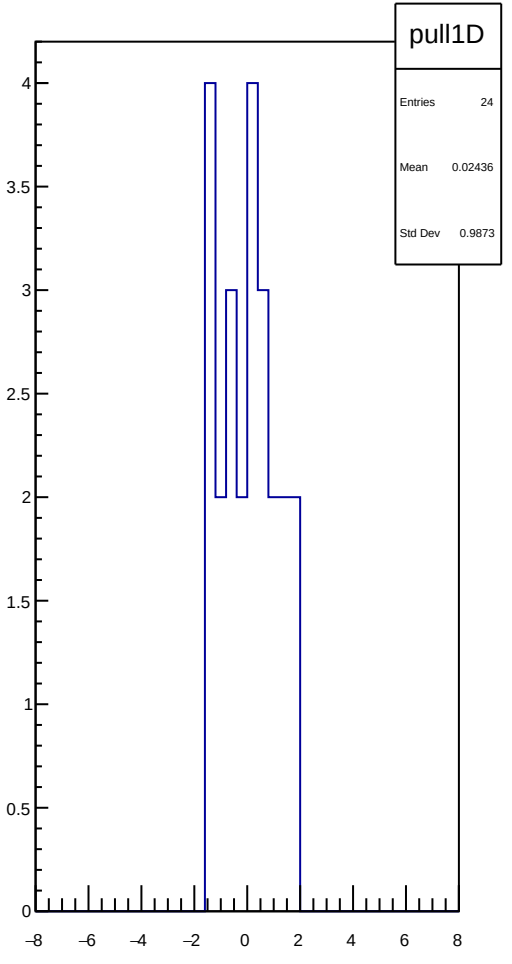

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.405e+05 / 23
p0 9.453e−11 ± 1.617e−13
0.5
0.4
0.3
0.2
0.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

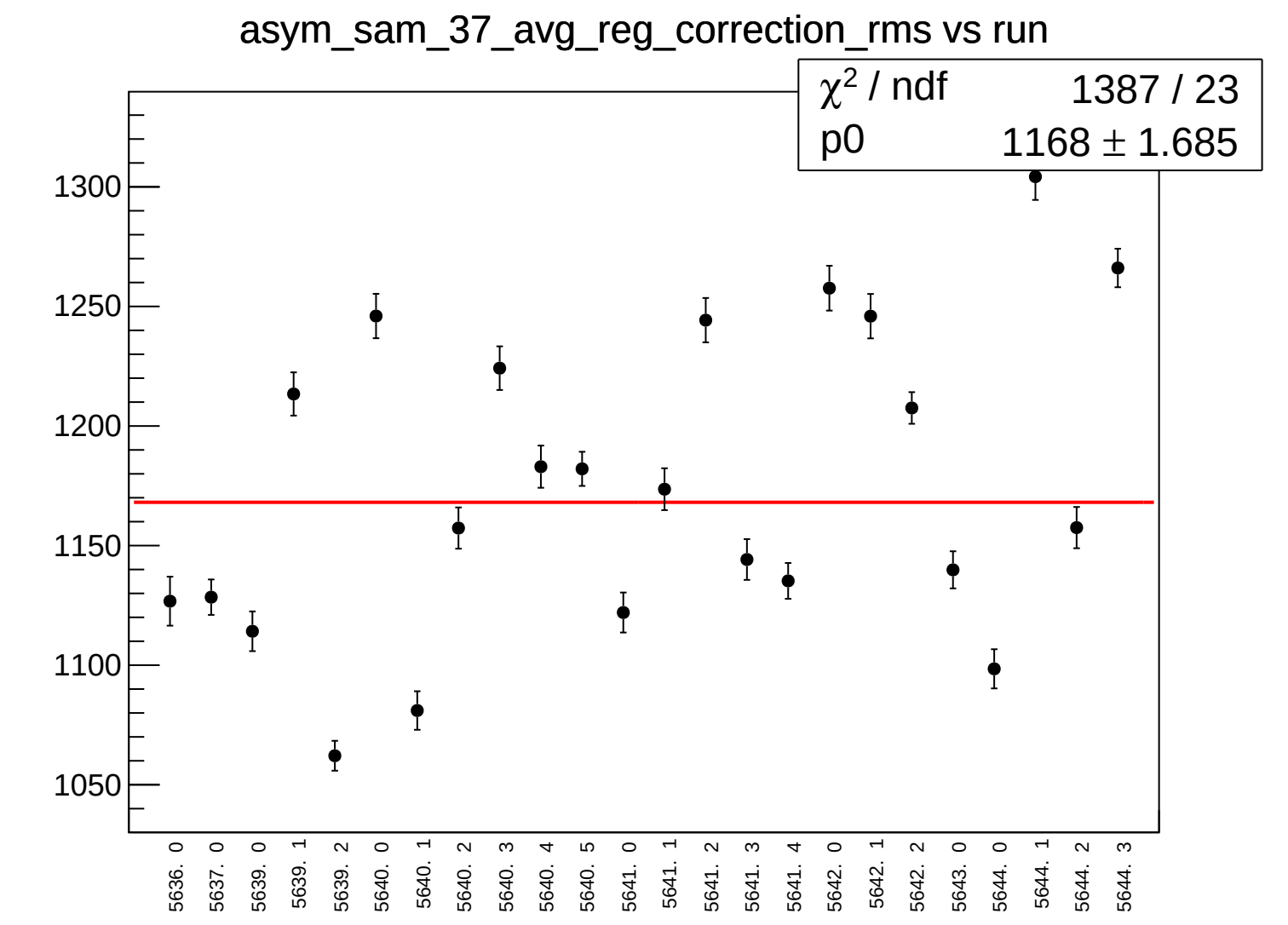

reg_asym_sam_37_avg_mean vs run
χ² / ndf 22.31 / 23
p0 162.3 ± 212.1
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 101
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

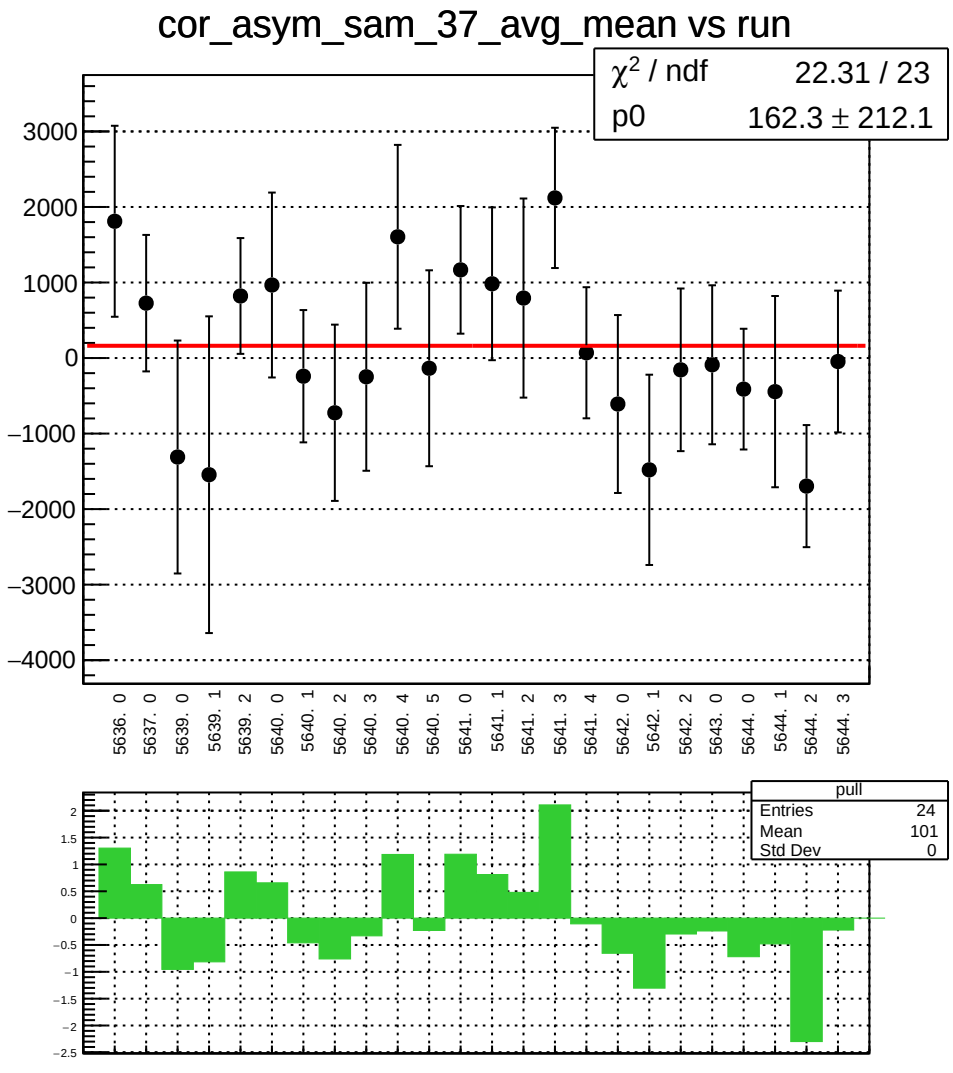

pull1D
Entries 24
Mean −0.02695
Std Dev 0.9637
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

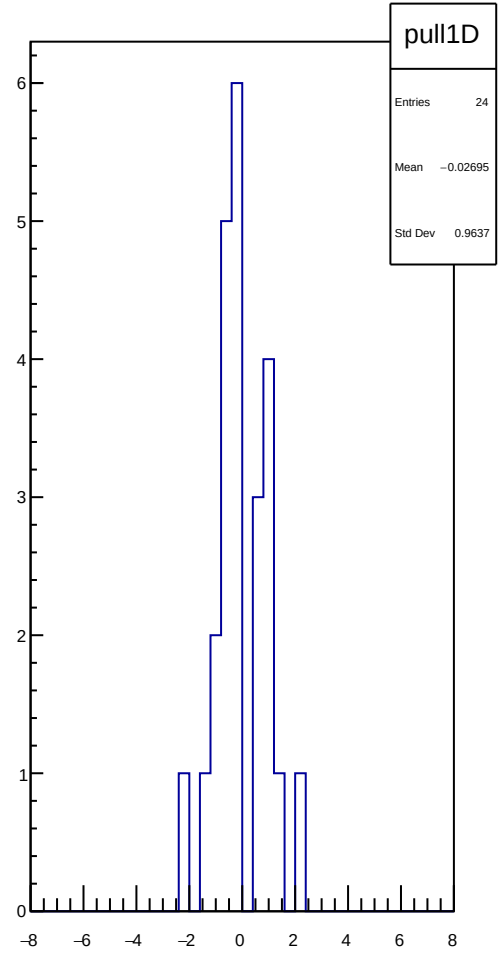

reg_asym_sam_37_avg_rms vs run
χ² / ndf 2.135e+04 / 23
p0 101.8 ± 0.15
200
180
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

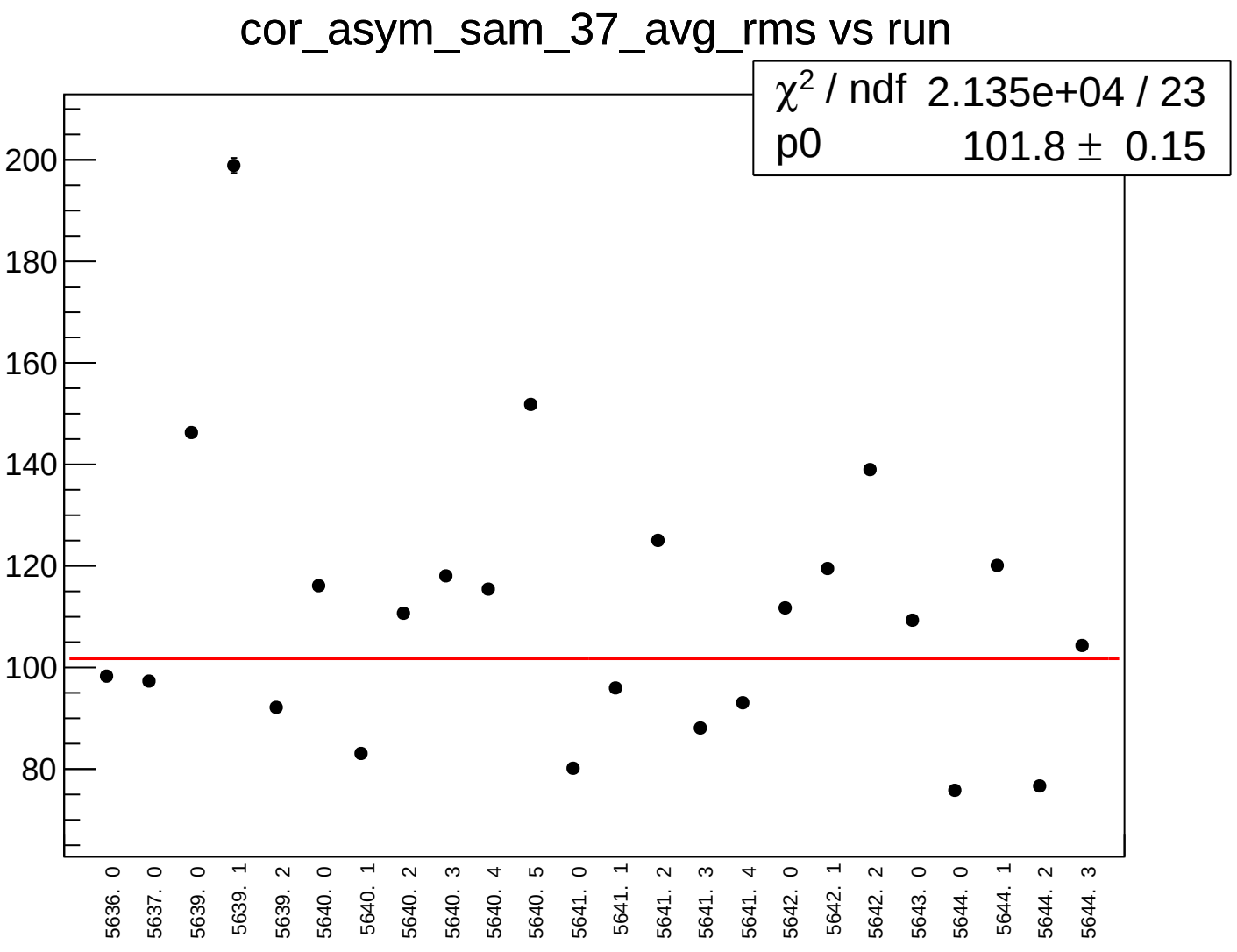

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 23.41 / 23
p0 −1388 ± 2382
40000
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 29.13
Std Dev 22.2
1.5
1
0.5
0
−0.5
−1
−1.5

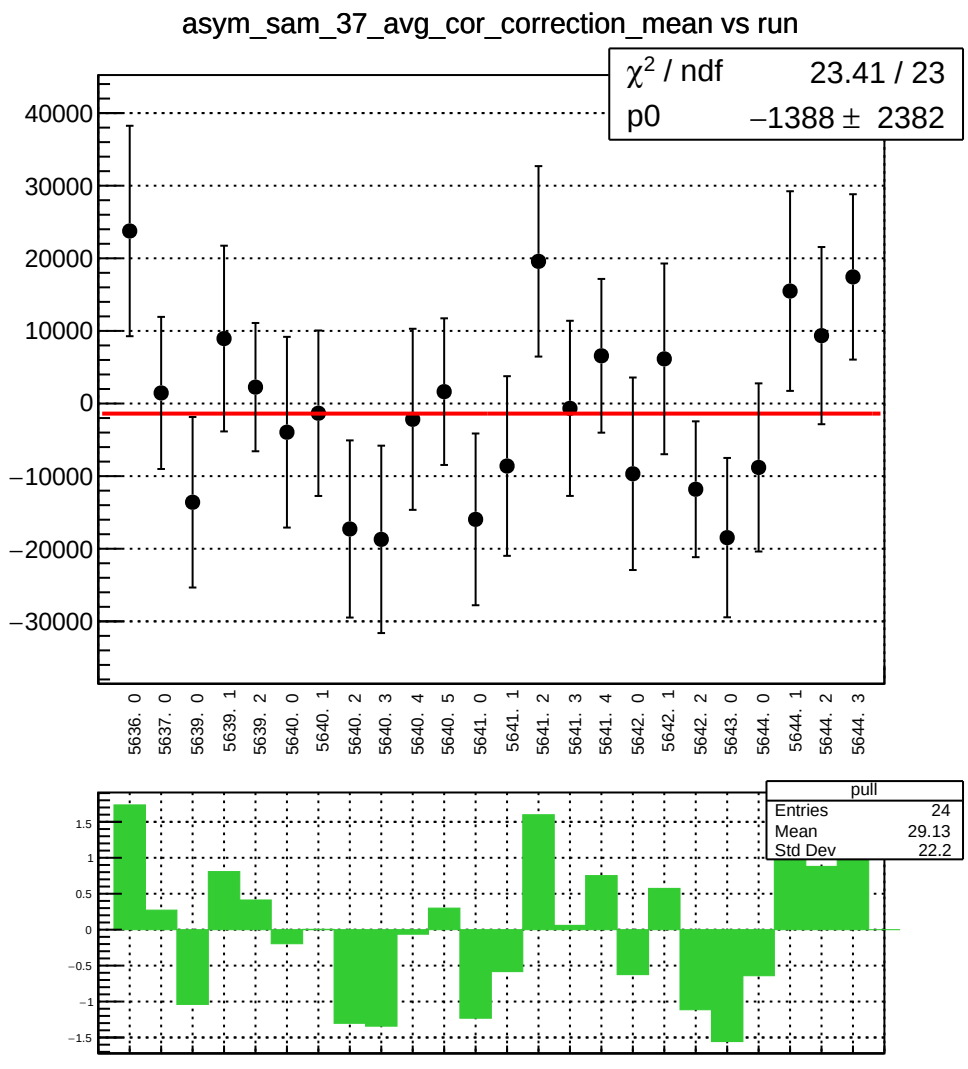

pull1D
Entries 24
Mean 0.02436
Std Dev 0.9873
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

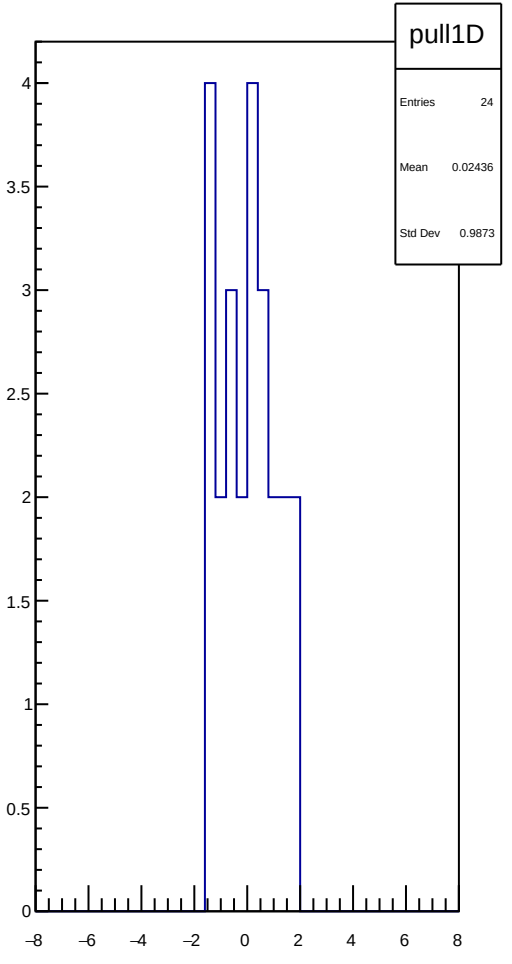

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 1387 / 23
p0 1168 ± 1.685
1300
1250
1200
1150
1100
1050
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

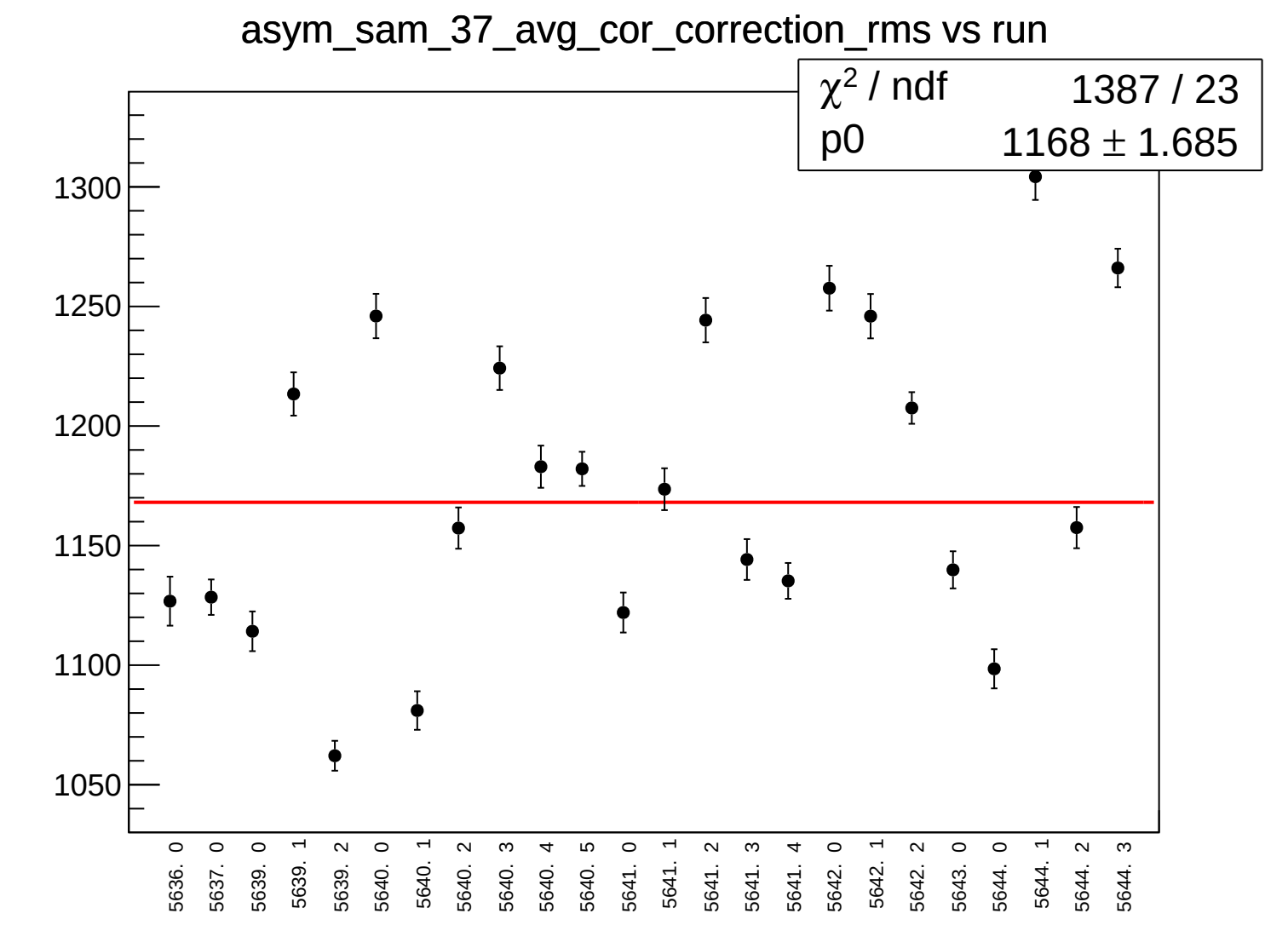

cor_asym_sam_37_avg_mean vs run
χ² / ndf 22.31 / 23
p0 162.3 ± 212.1
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 101
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

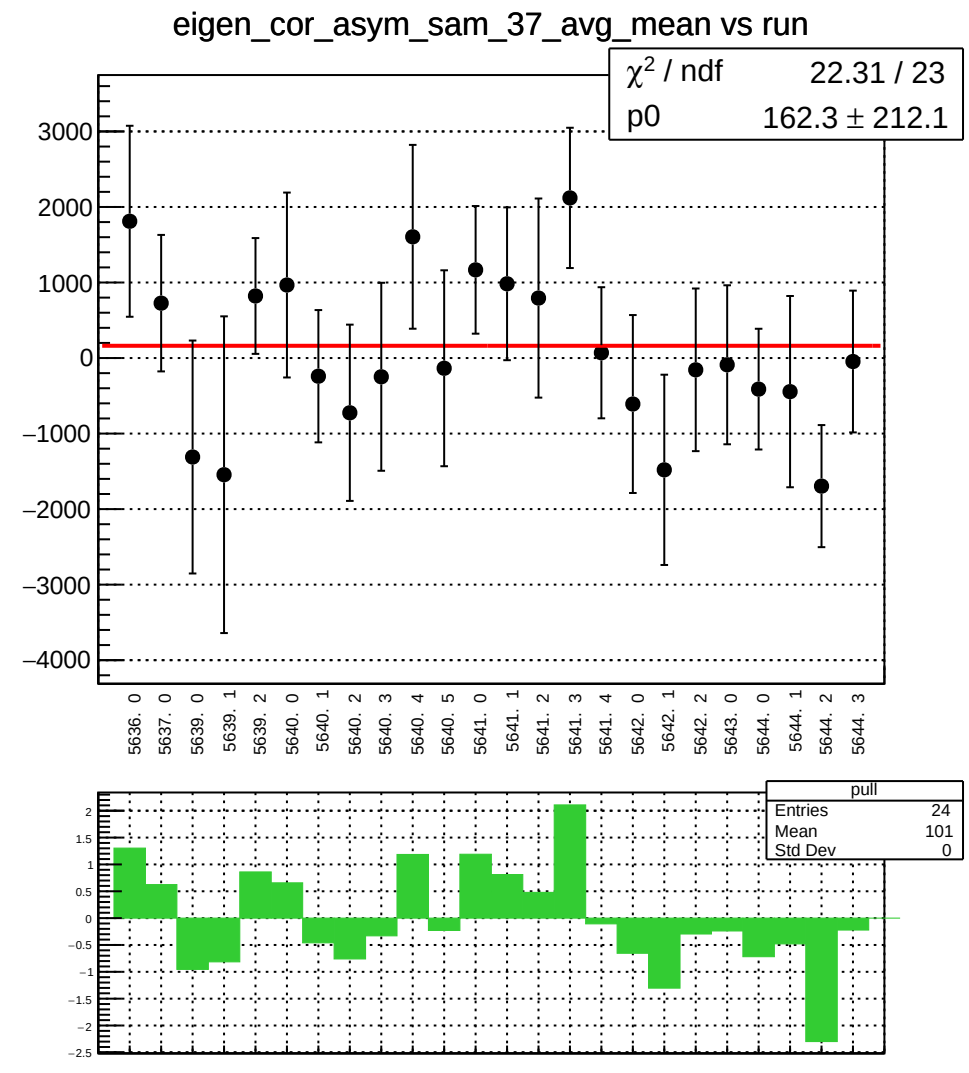

pull1D
Entries 24
Mean −0.02695
Std Dev 0.9637
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

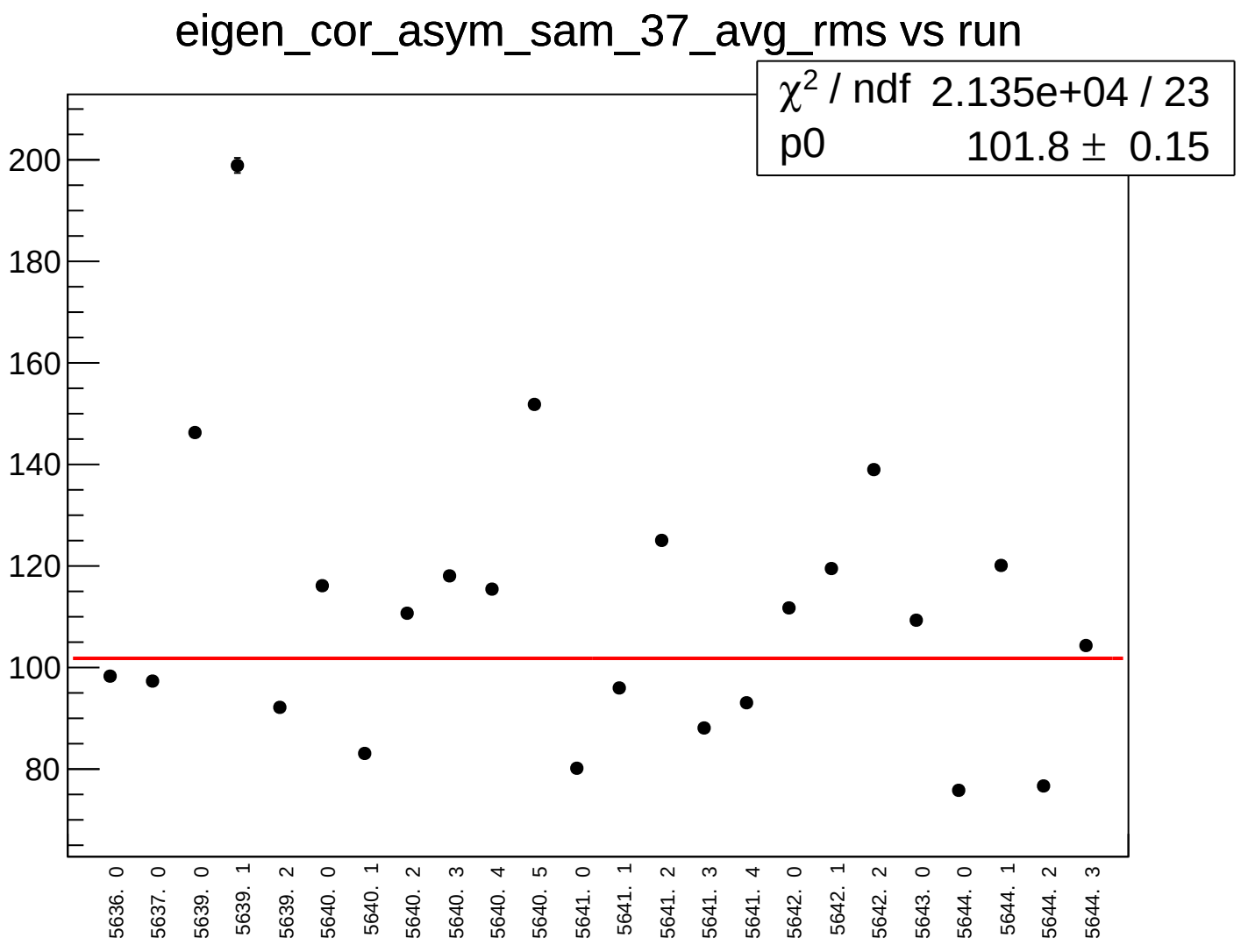

cor_asym_sam_37_avg_rms vs run
χ² / ndf 2.135e+04 / 23
p0 101.8 ± 0.15
200
180
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

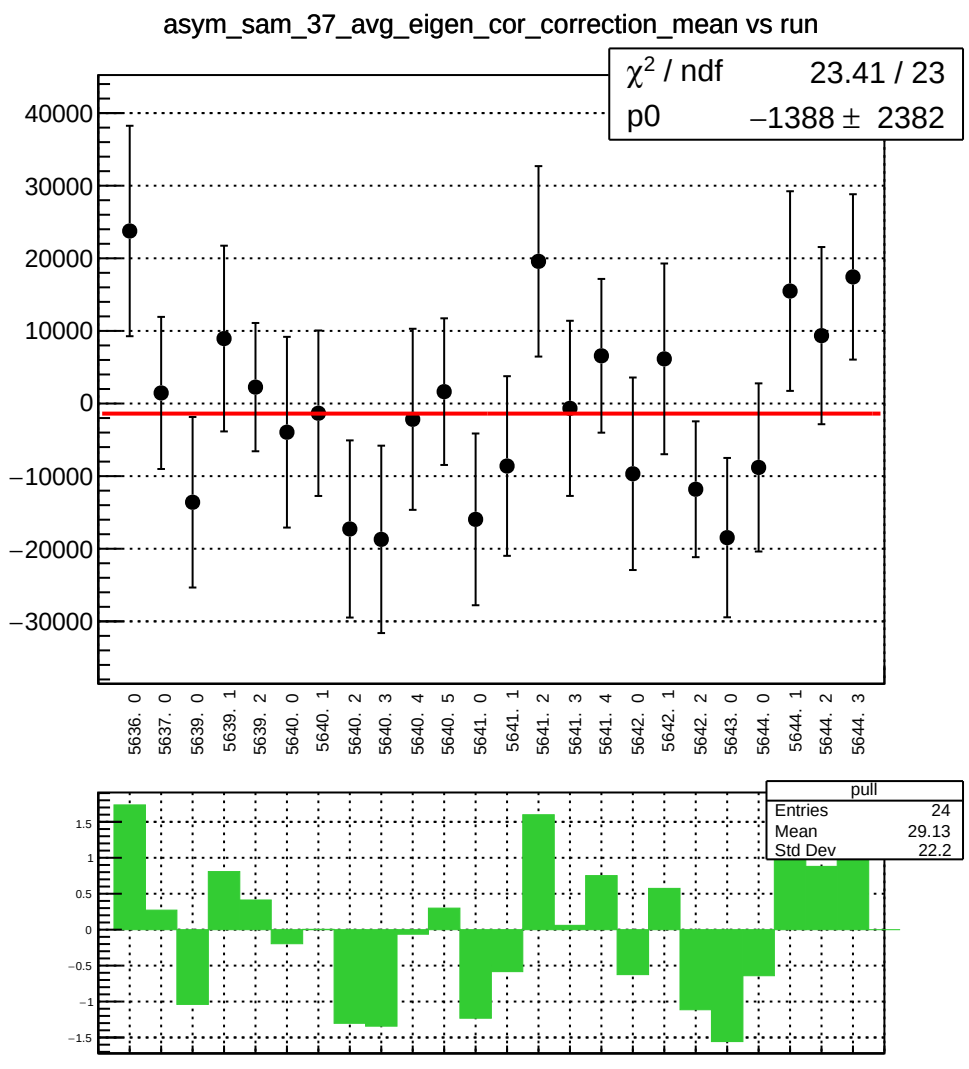

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 23.41 / 23
p0 −1388 ± 2382
40000
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 29.13
Std Dev 22.2
1.5
1
0.5
0
−0.5
−1
−1.5

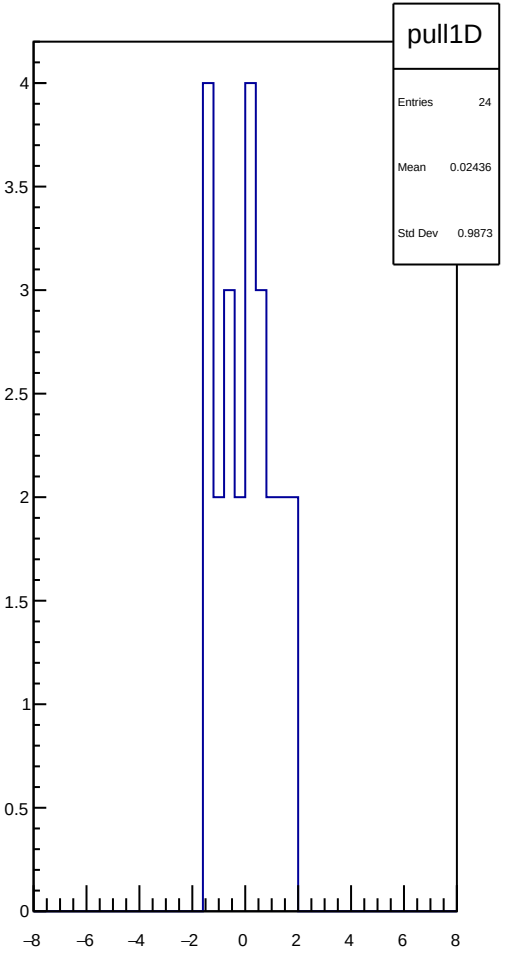

pull1D
Entries 24
Mean 0.02436
Std Dev 0.9873
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

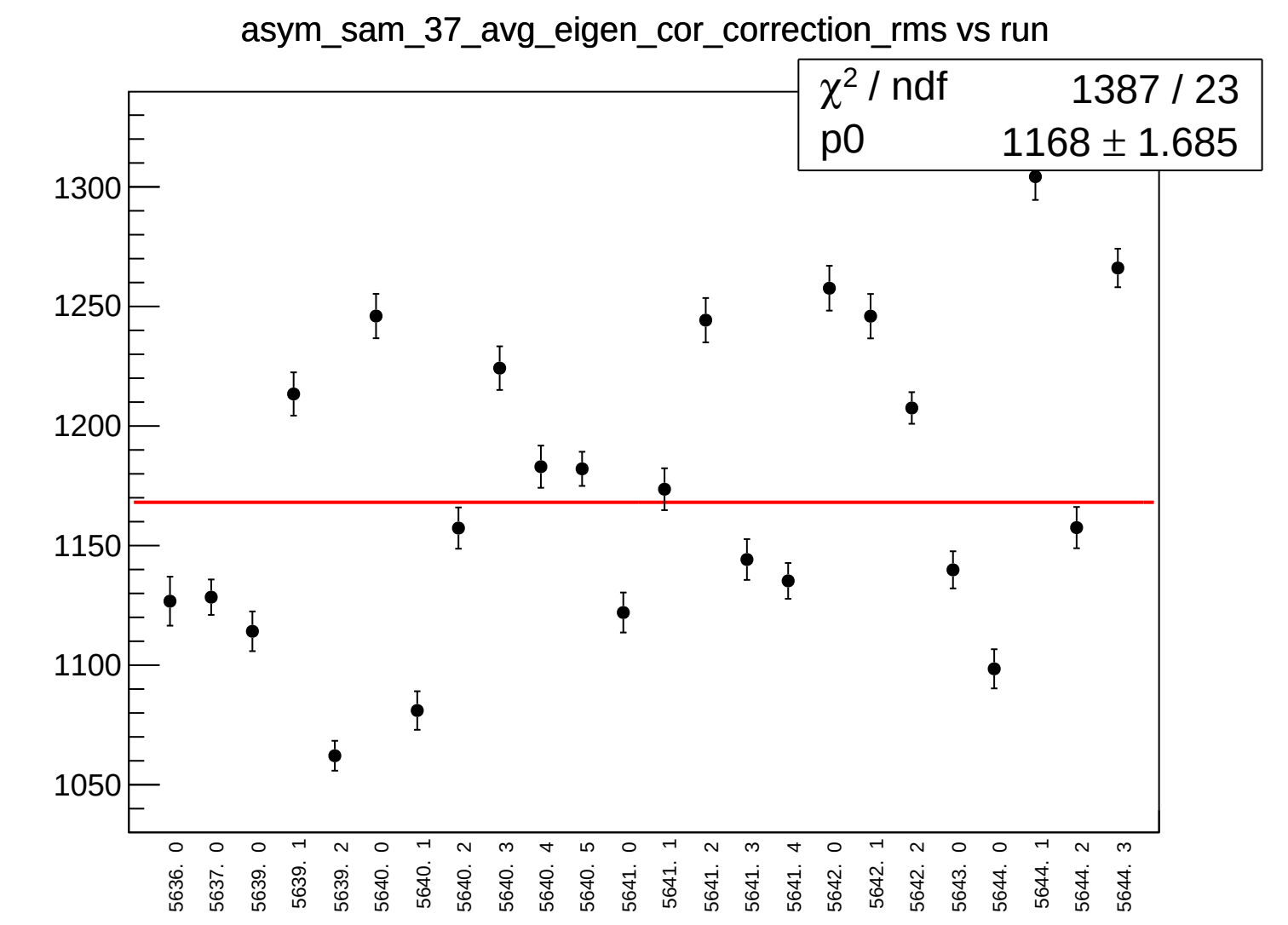

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 1387 / 23
p0 1168 ± 1.685
1300
1250
1200
1150
1100
1050
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

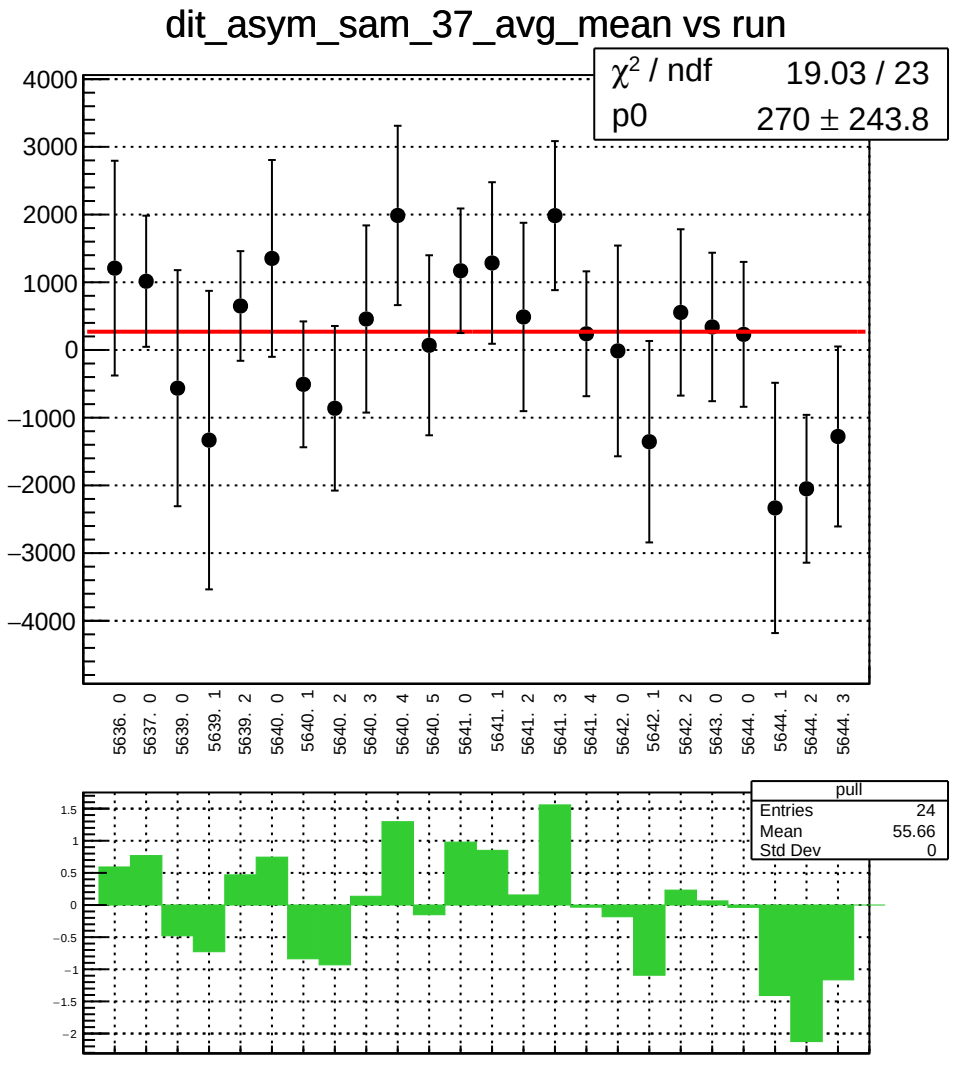

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 22.31 / 23
p0 162.3 ± 212.1
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 101
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean −0.02695
Std Dev 0.9637
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

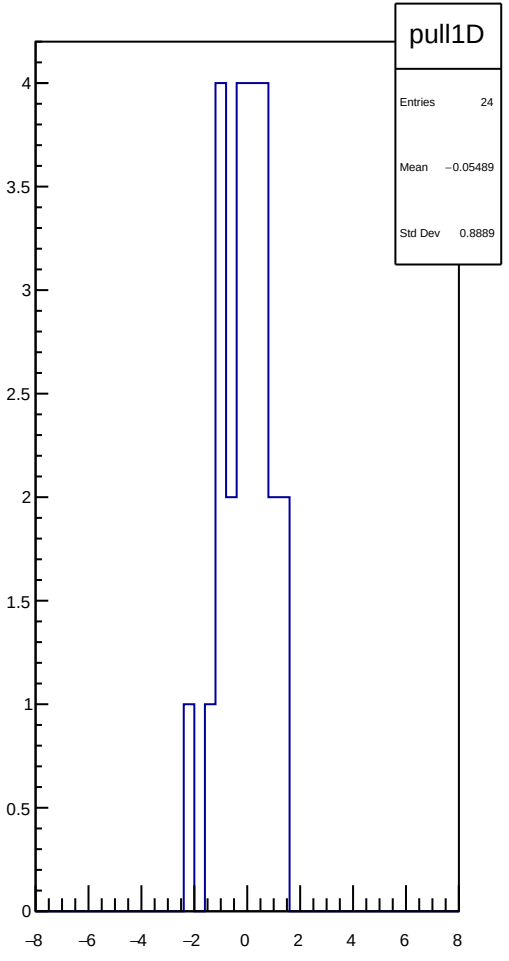

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 2.135e+04 / 23
p0 101.8 ± 0.15
200
180
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

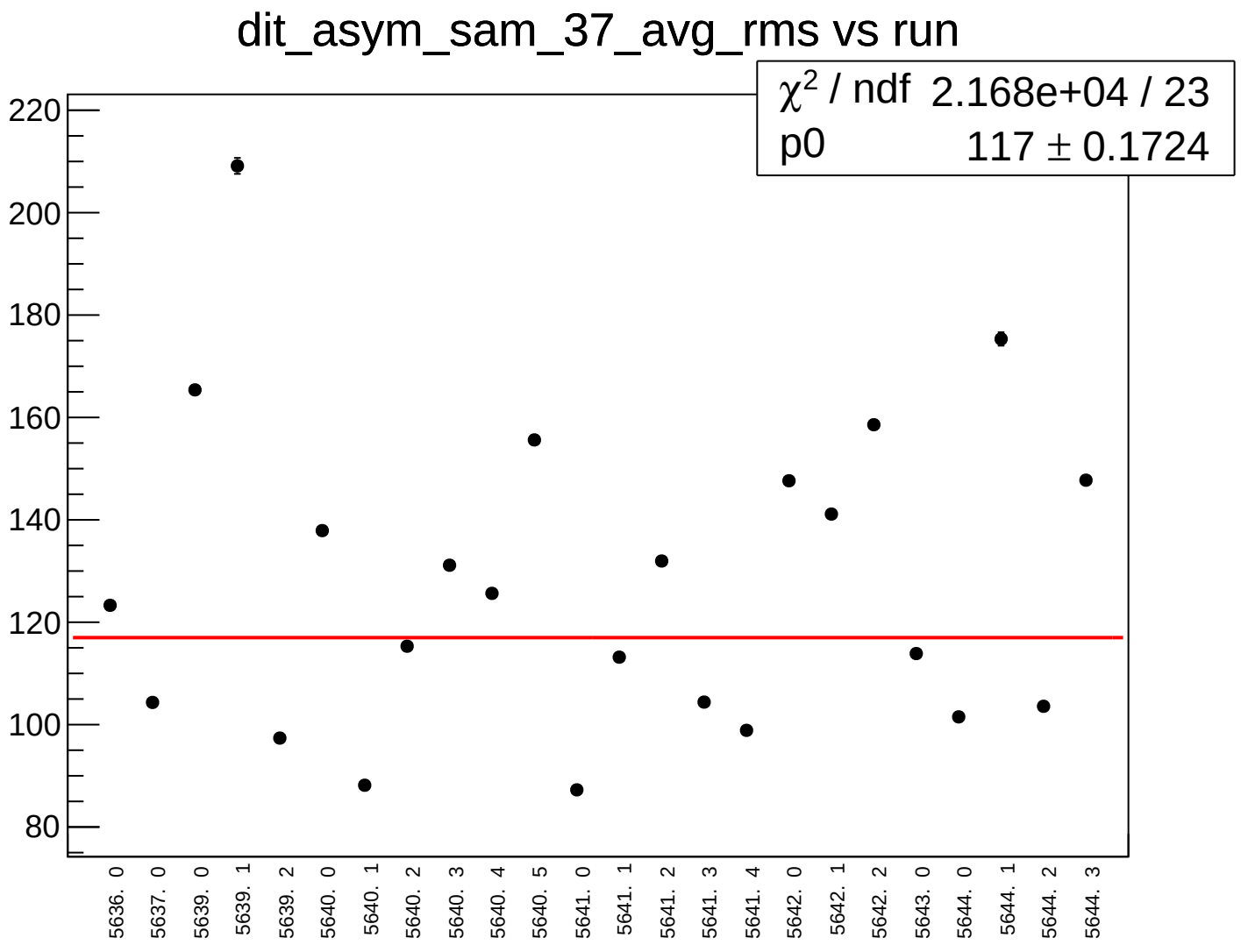

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 23.41 / 23
p0 −1388 ± 2382
40000
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 29.13
Std Dev 22.2
1.5
1
0.5
0
−0.5
−1
−1.5

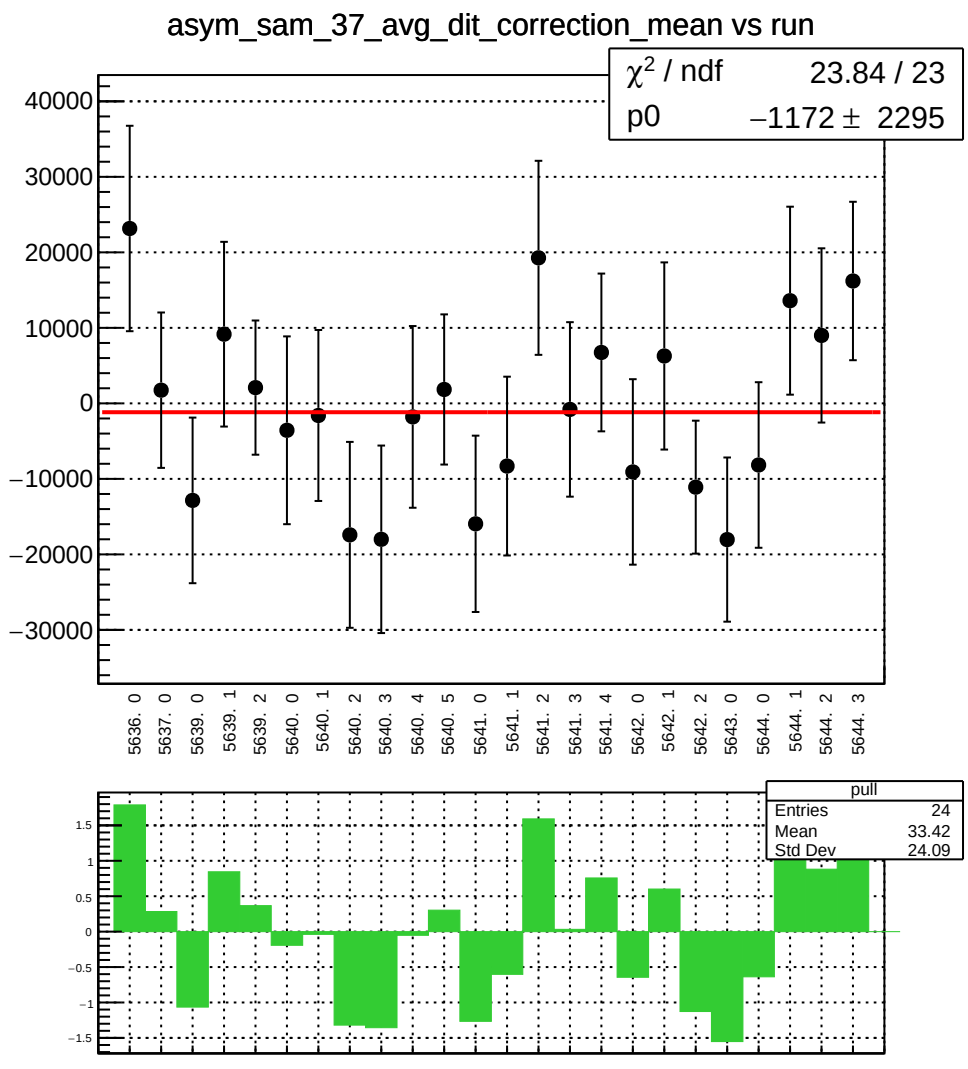

pull1D
Entries 24
Mean 0.02436
Std Dev 0.9873
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

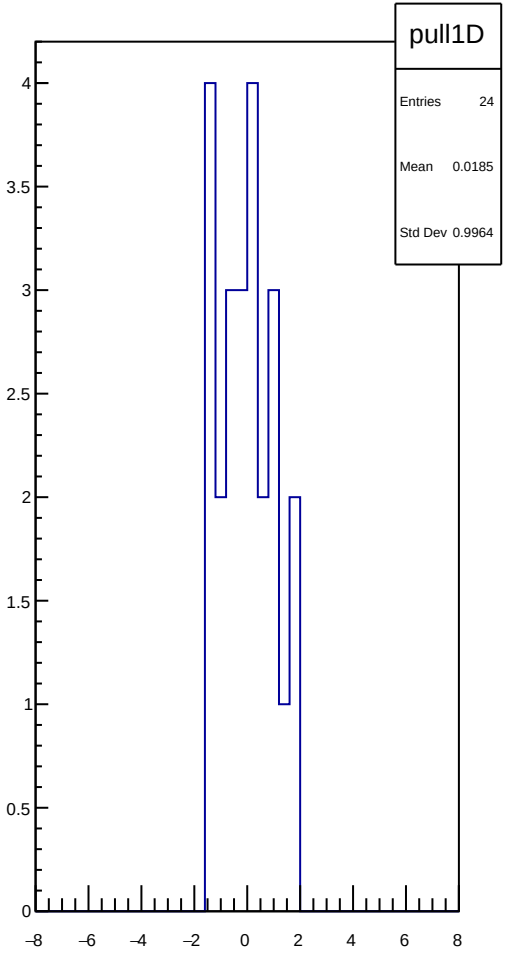

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 1387 / 23
p0 1168 ± 1.685
1300
1250
1200
1150
1100
1050
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

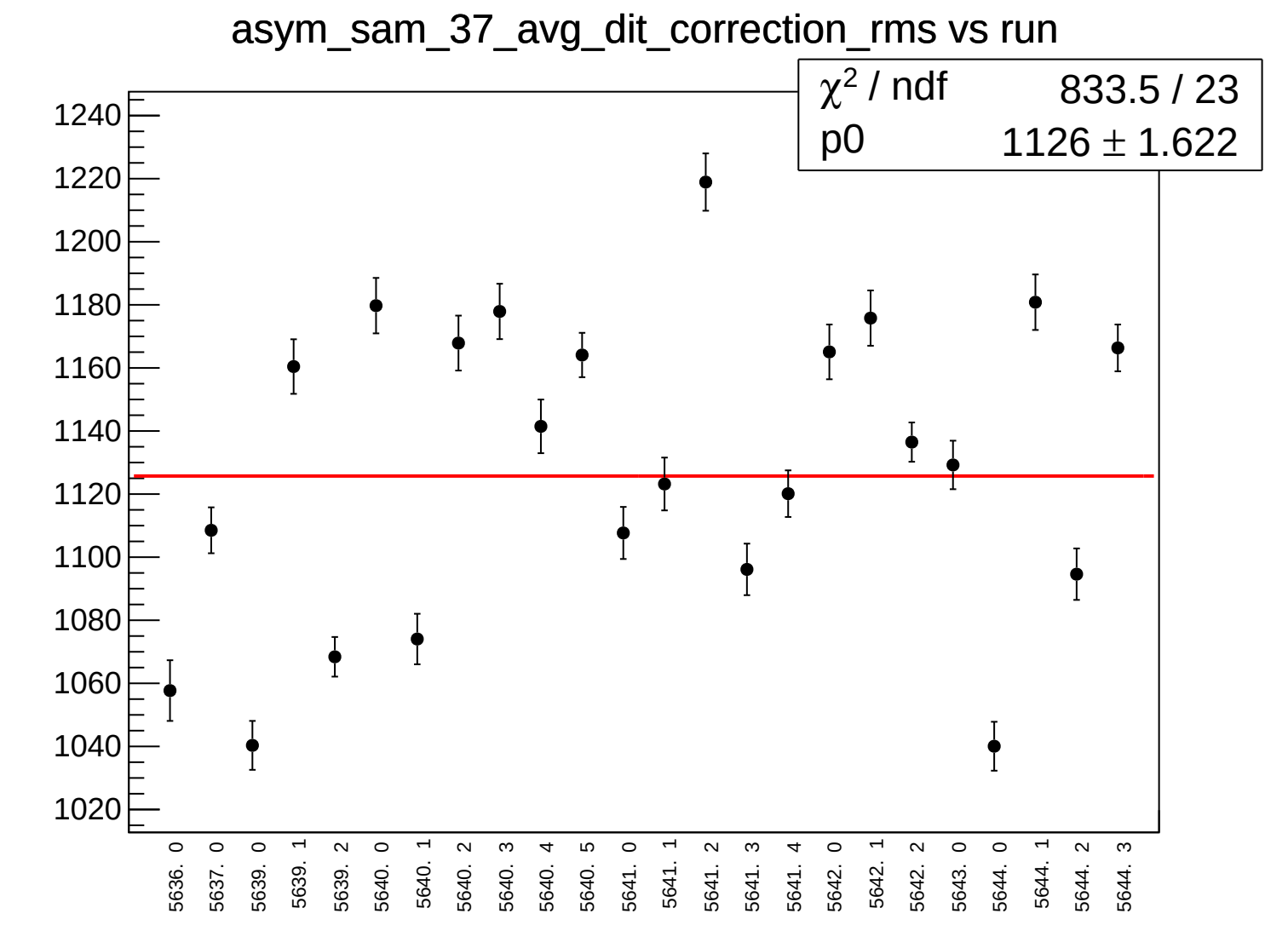

dit_asym_sam_37_avg_mean vs run
χ² / ndf 19.03 / 23
p0 270 ± 243.8
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 55.66
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

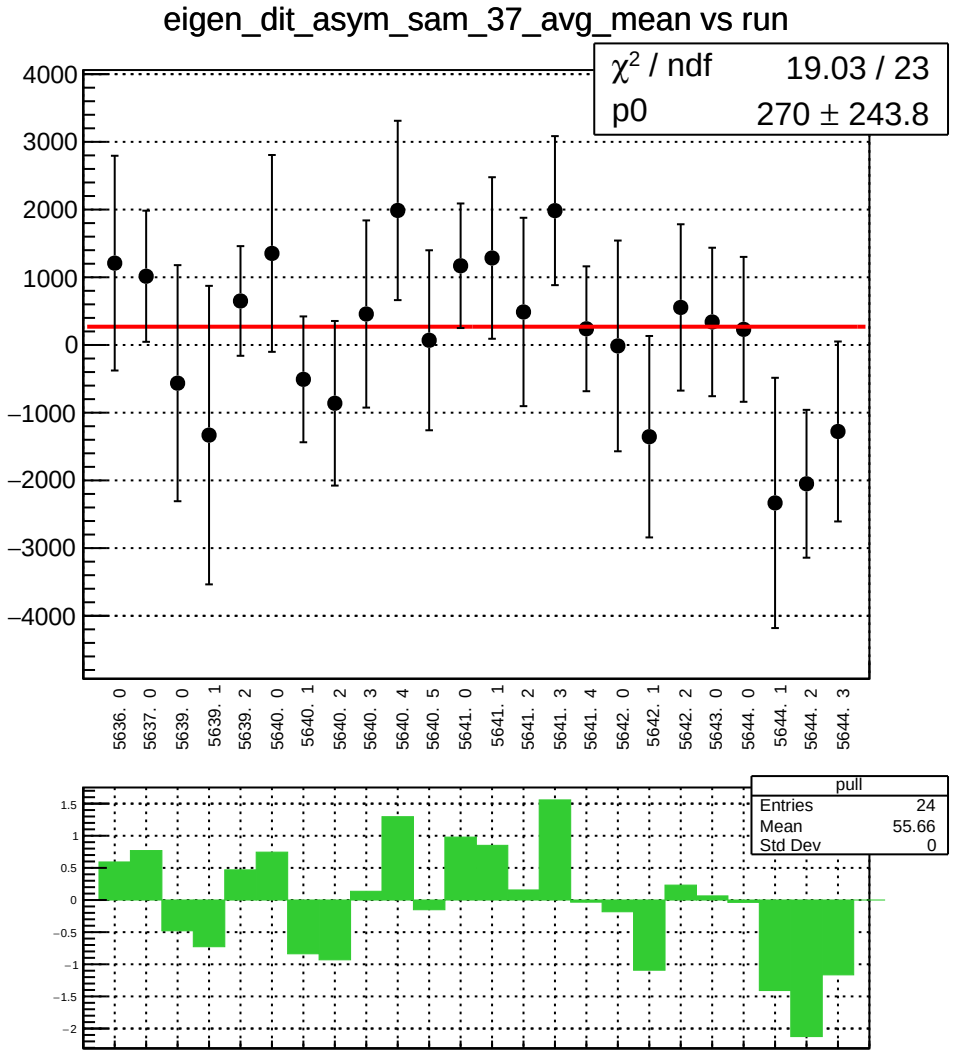

pull1D
Entries 24
Mean −0.05489
Std Dev 0.8889
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

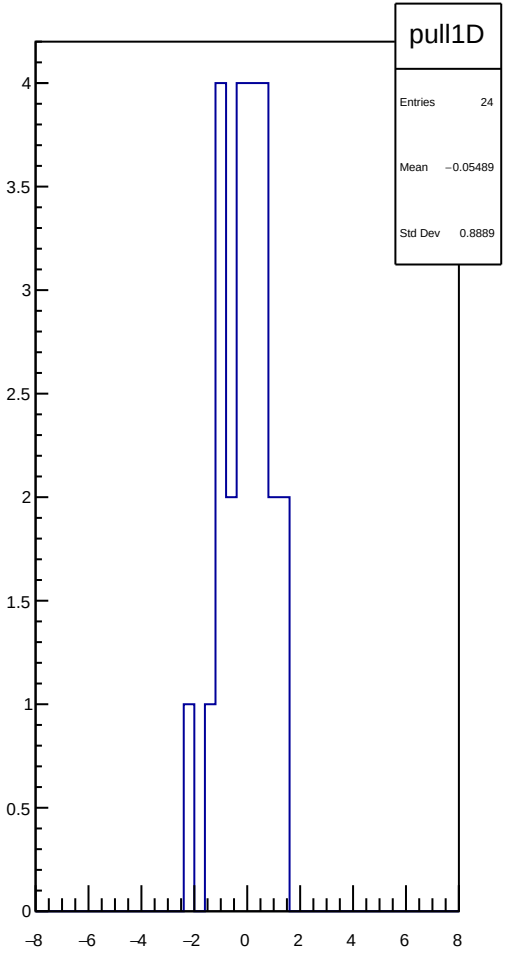

dit_asym_sam_37_avg_rms vs run
χ² / ndf 2.168e+04 / 23
p0 117 ± 0.1724
220
200
180
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

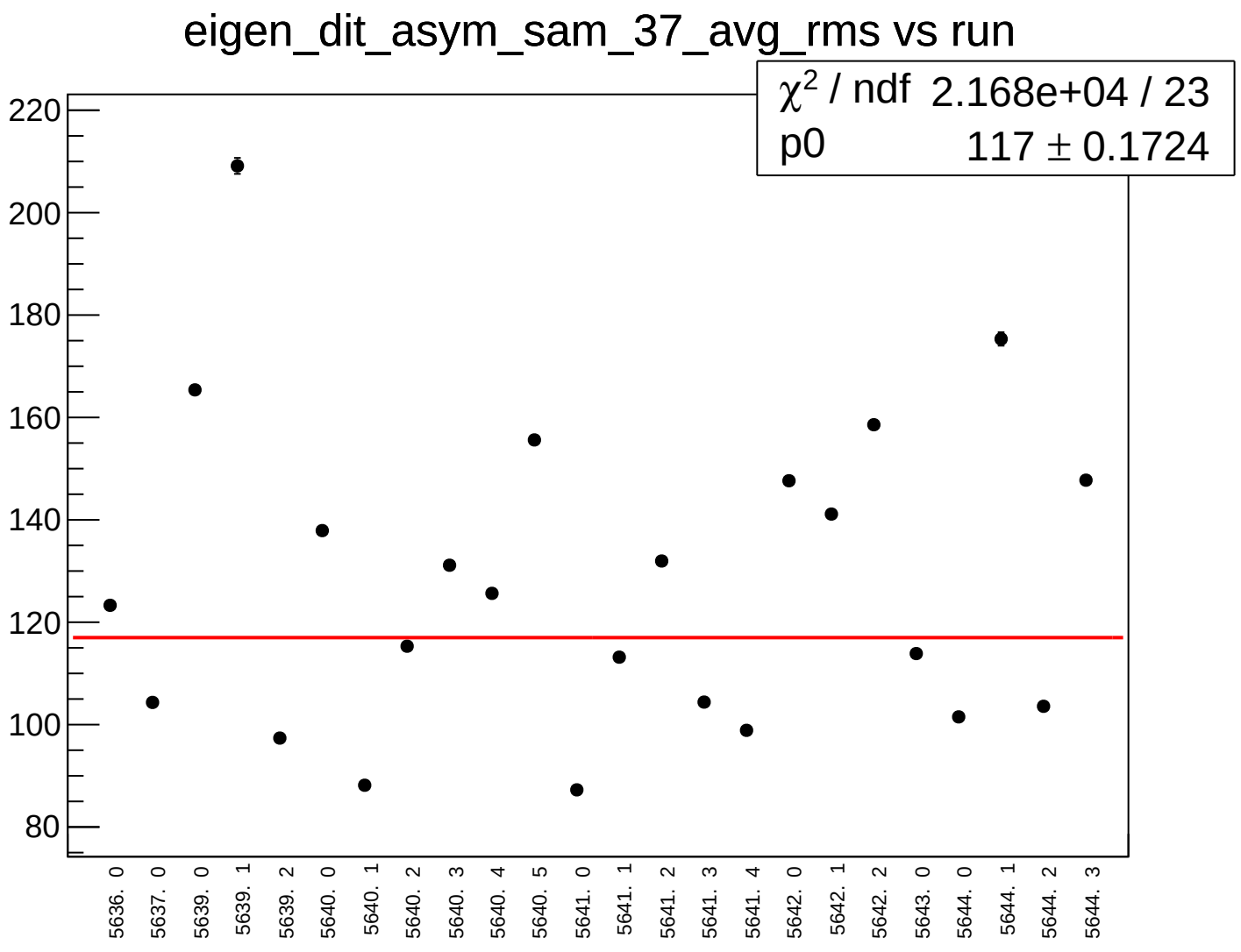

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 23.84 / 23
p0 −1172 ± 2295
40000
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 33.42
Std Dev 24.09
1.5
1
0.5
0
−0.5
−1
−1.5

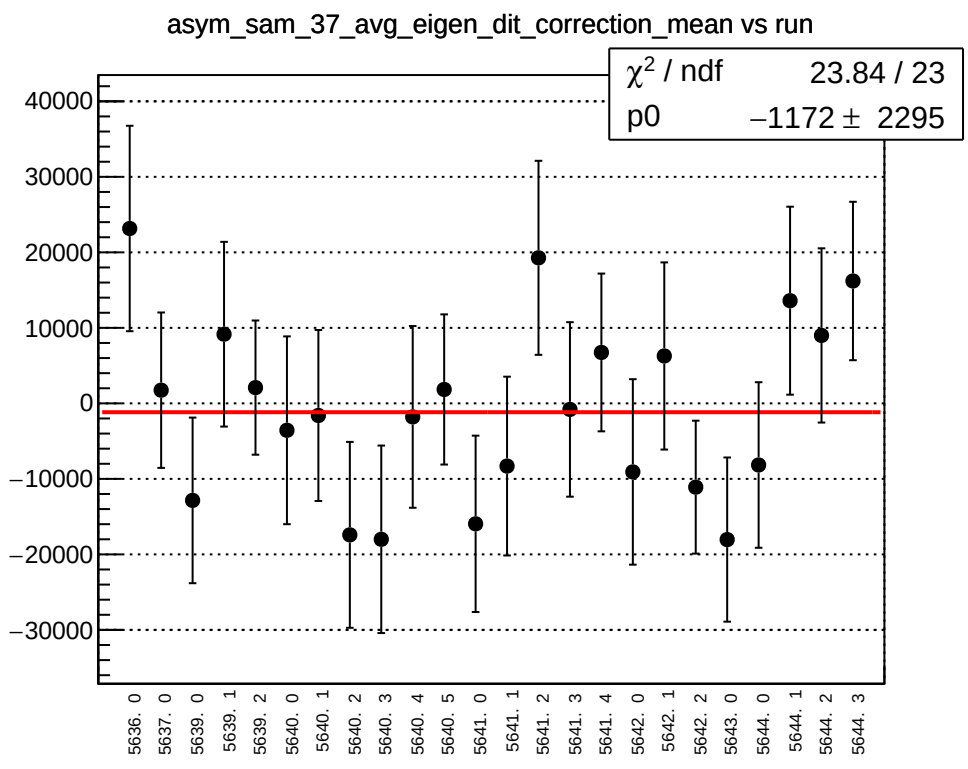

pull1D
Entries 24
Mean 0.0185
Std Dev 0.9964
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

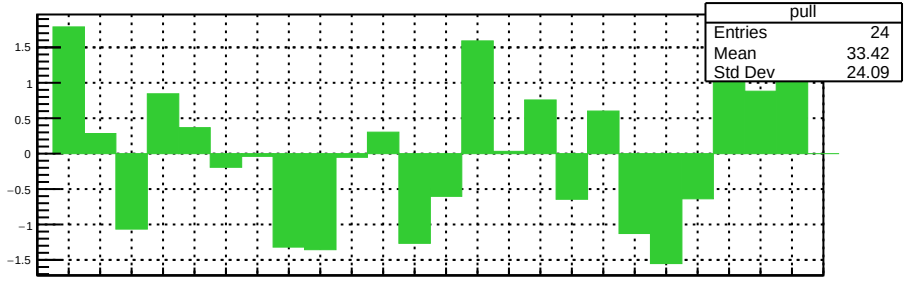

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 833.5 / 23
p0 1126 ± 1.622
1240
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040
1020
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

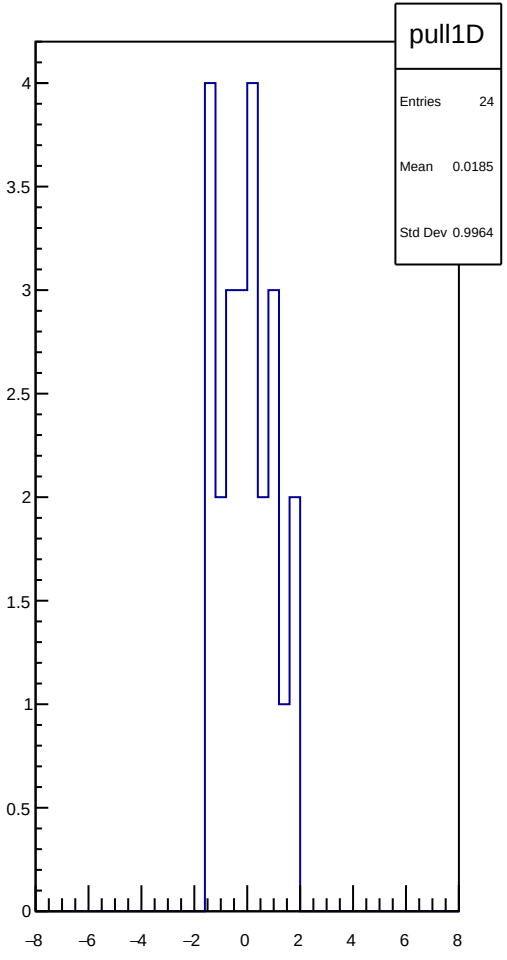

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 19.03 / 23
p0 270 ± 243.8
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 55.66
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

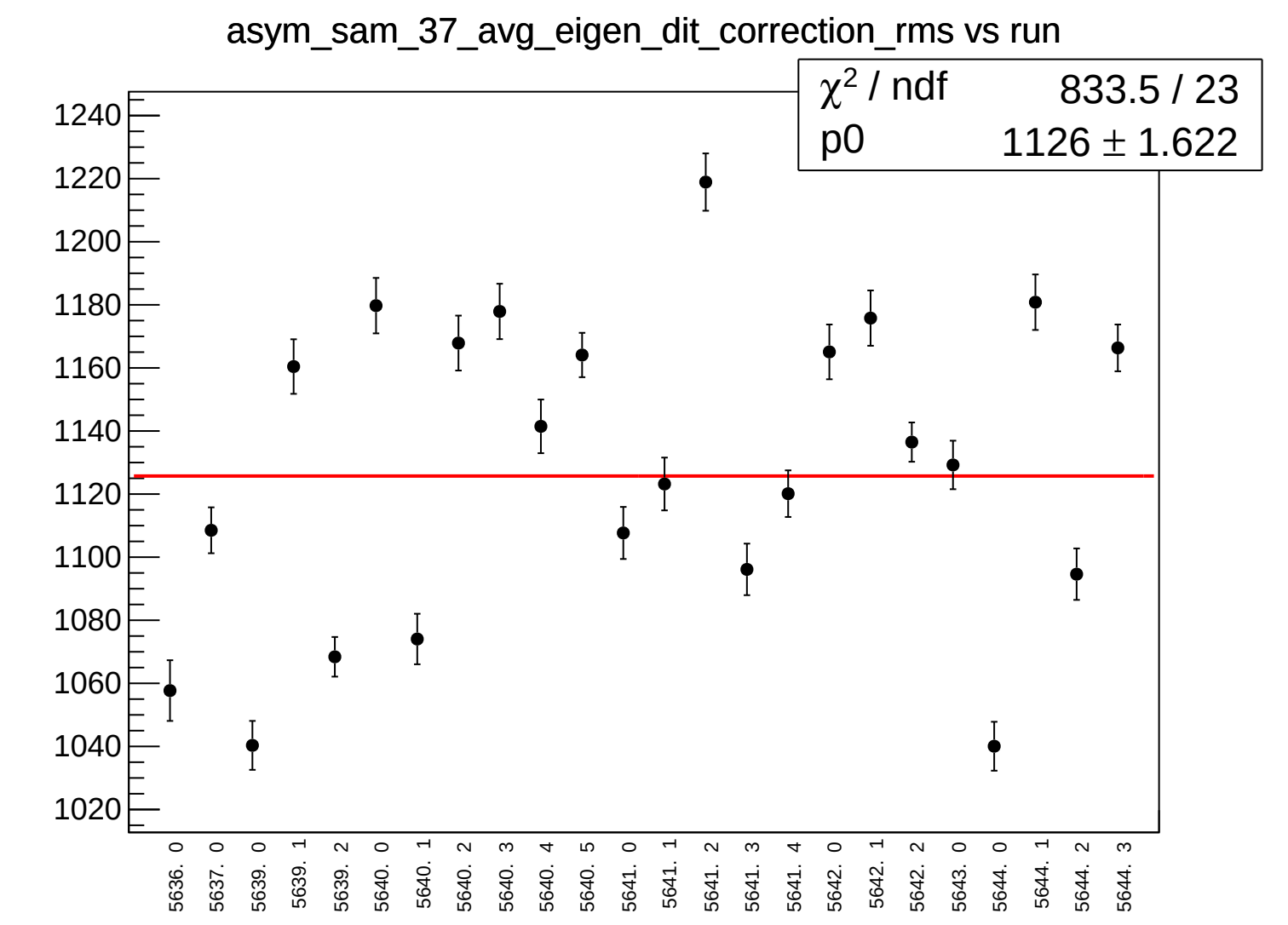

pull1D
Entries 24
Mean −0.05489
Std Dev 0.8889
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

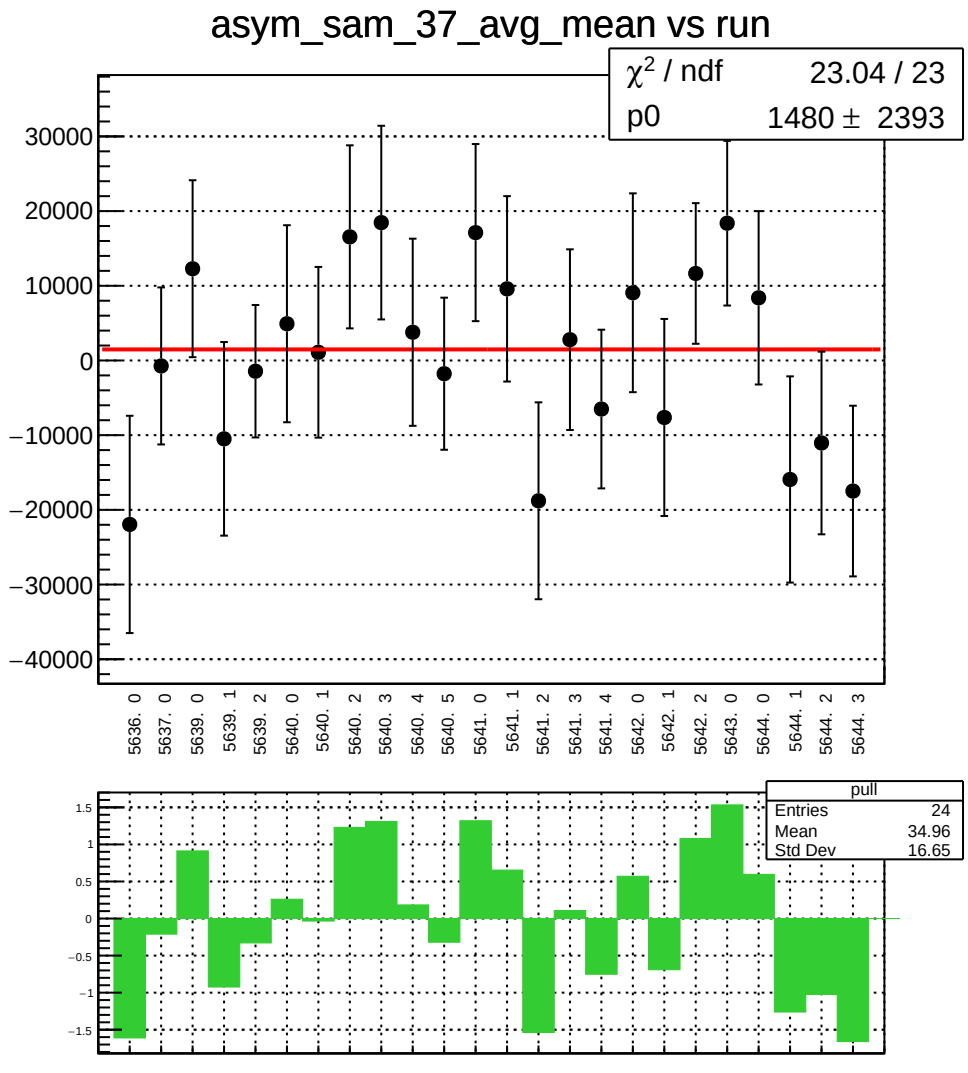

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 2.168e+04 / 23
p0 117 ± 0.1724
220
200
180
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

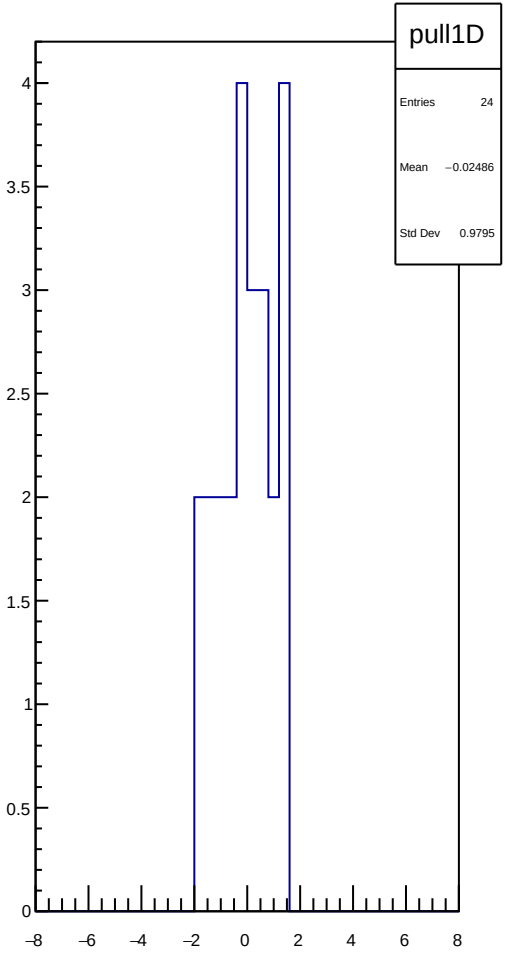

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 23.84 / 23
p0 −1172 ± 2295
40000
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

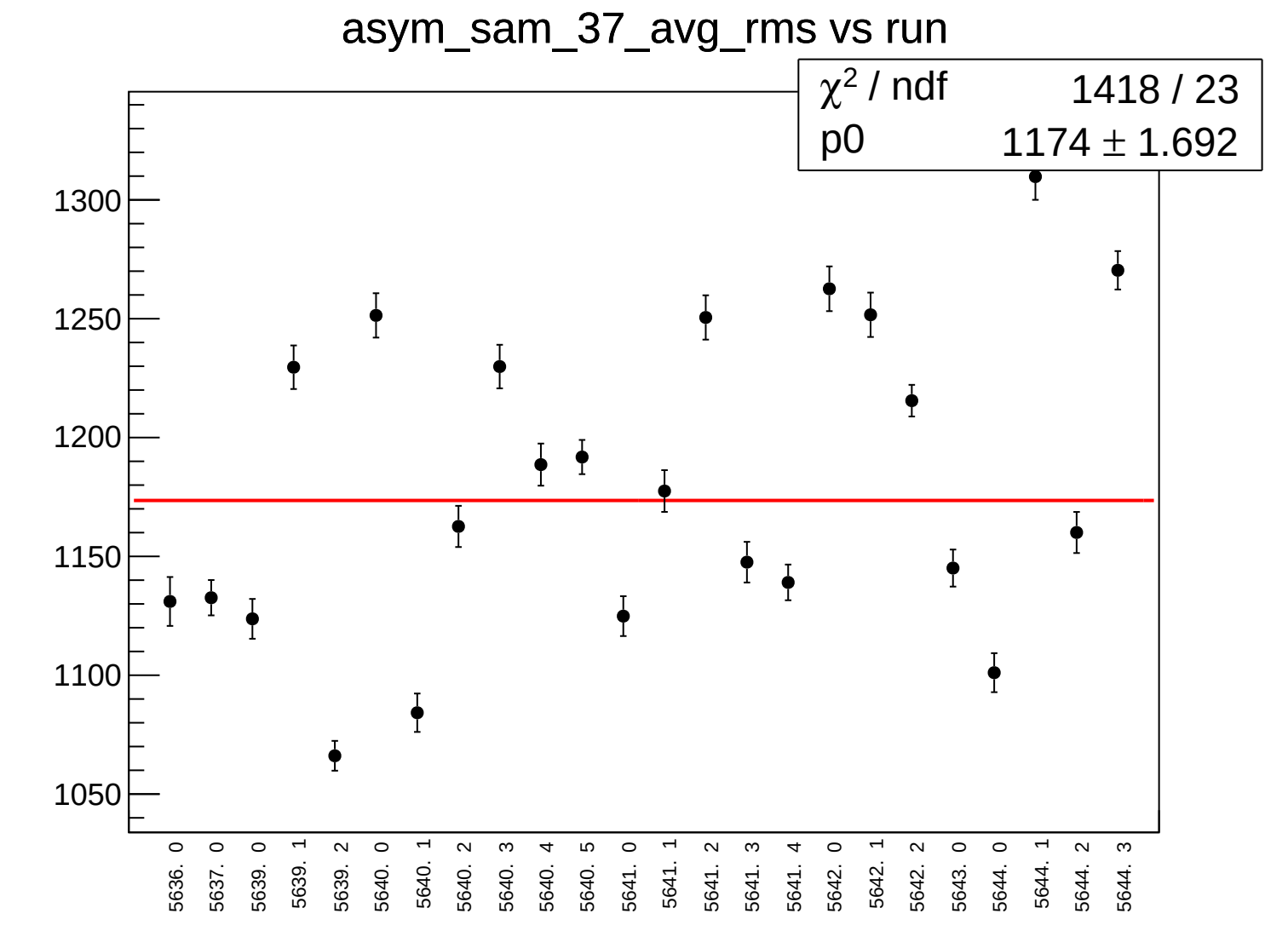

pull
Entries 24
Mean 33.42
Std Dev 24.09
1.5
1
0.5
0
−0.5
−1
−1.5

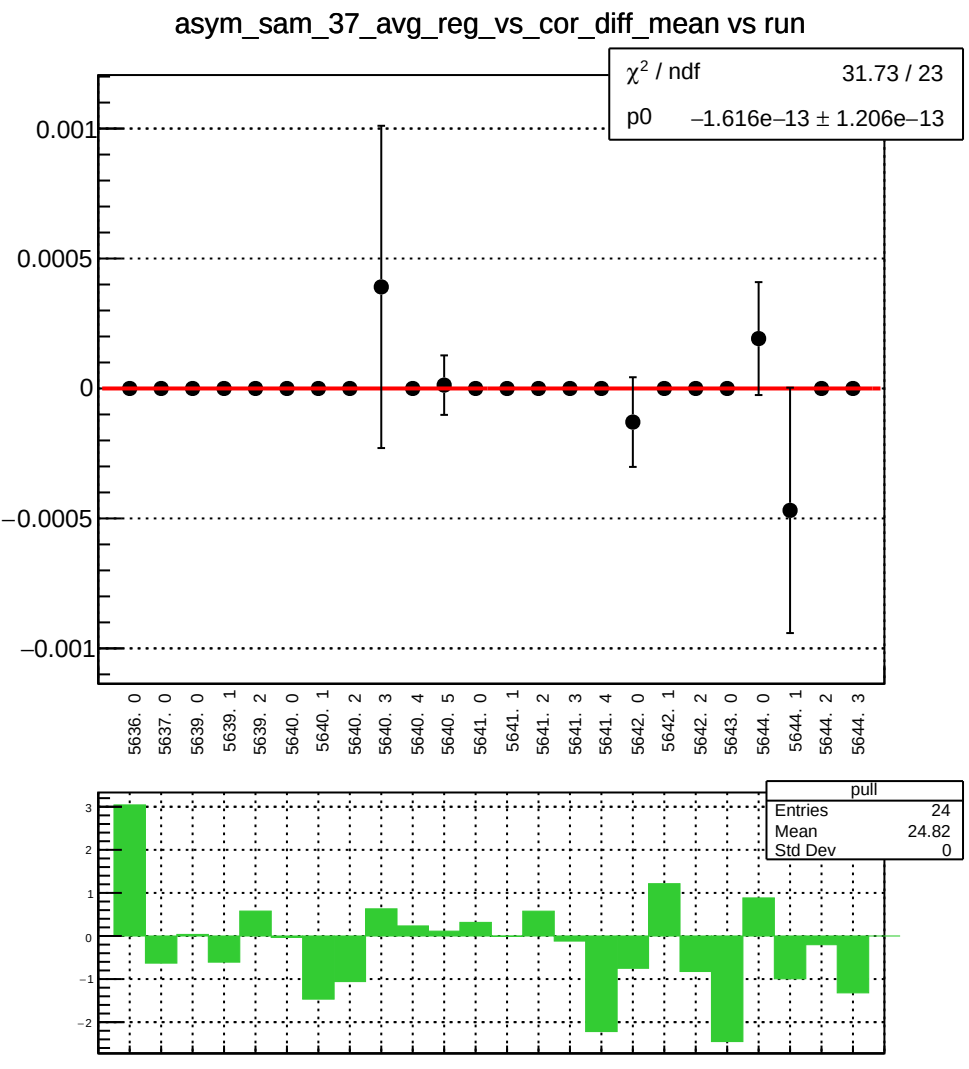

pull1D
Entries 24
Mean 0.0185
Std Dev 0.9964
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

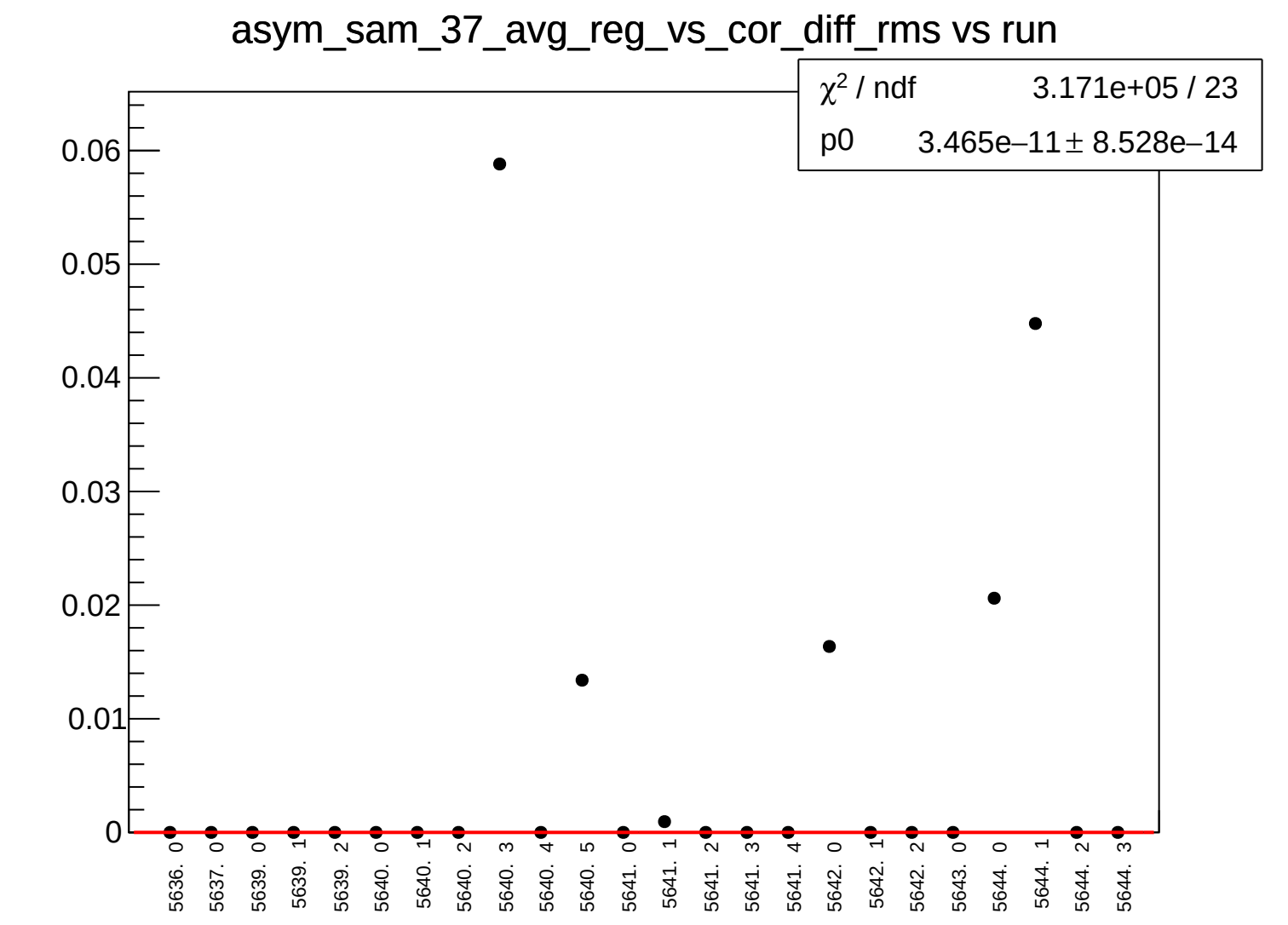

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 833.5 / 23
p0 1126 ± 1.622
1240
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040
1020
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

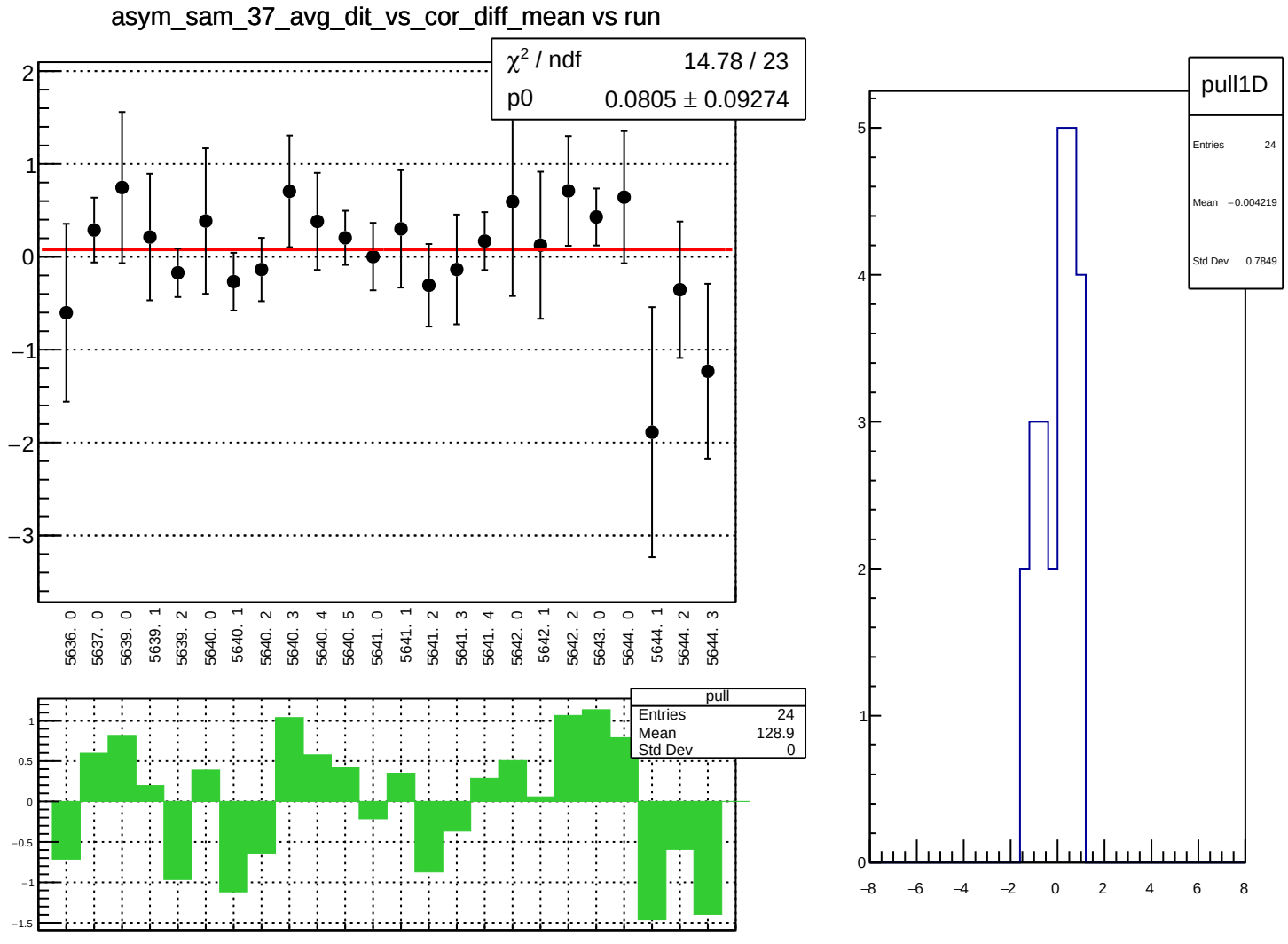

asym_sam_37_avg_mean vs run
χ² / ndf 23.04 / 23
p0 1480 ± 2393
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 34.96
Std Dev 16.65
1.5
1
0.5
0
−0.5
−1
−1.5

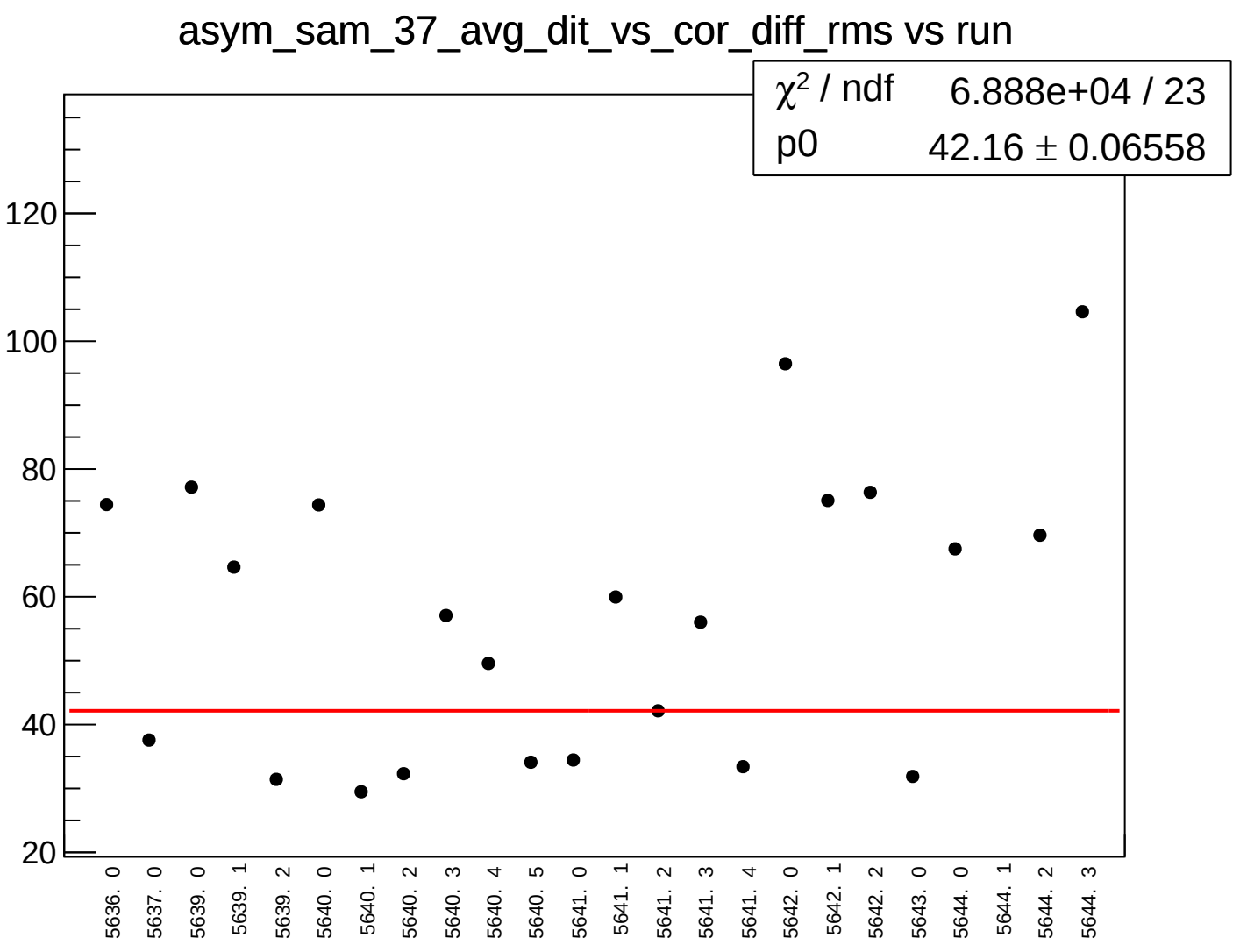

pull1D
Entries 24
Mean −0.02486
Std Dev 0.9795
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

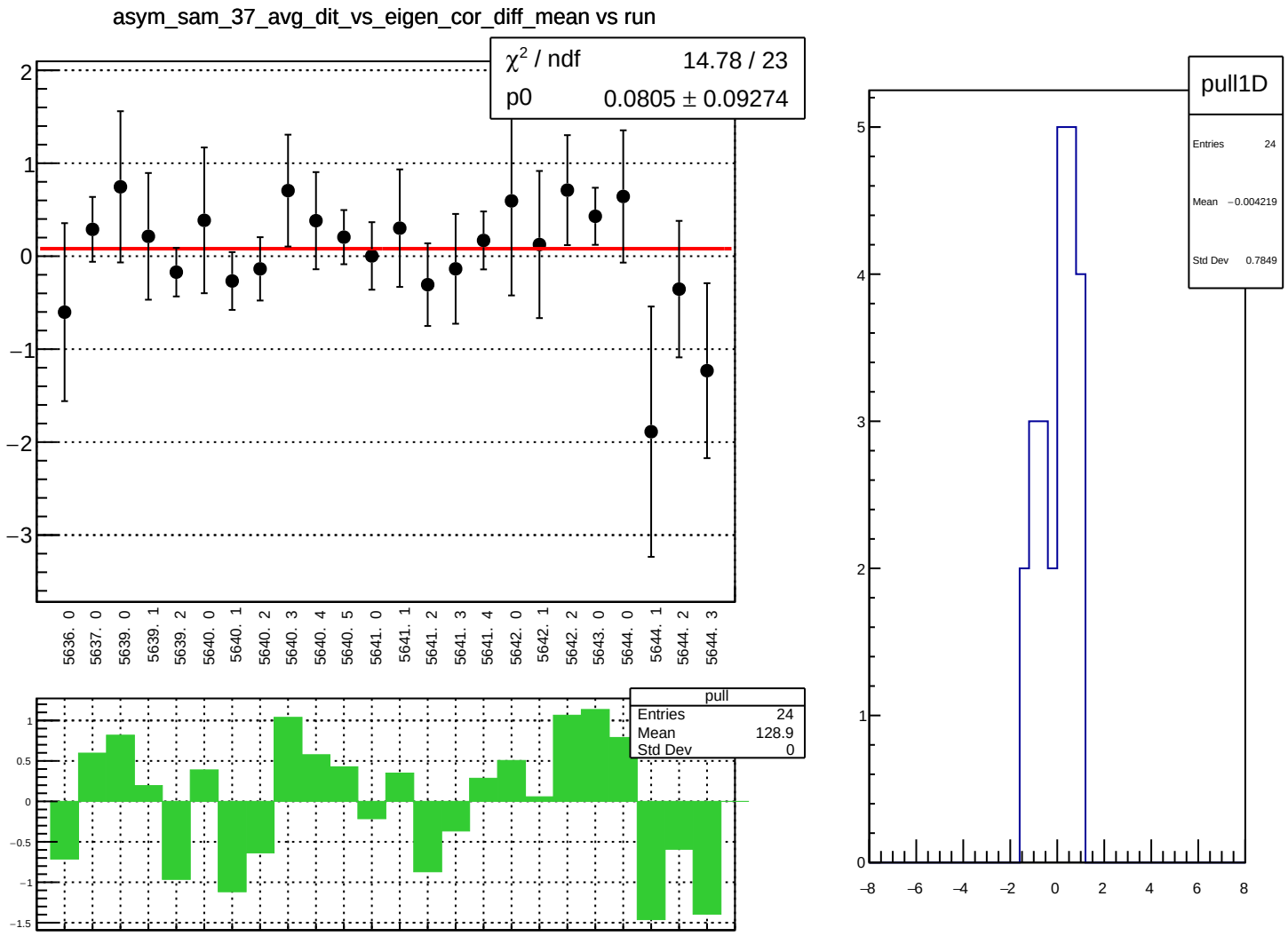

asym_sam_37_avg_rms vs run
χ² / ndf 1418 / 23
p0 1174 ± 1.692
1300
1250
1200
1150
1100
1050
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

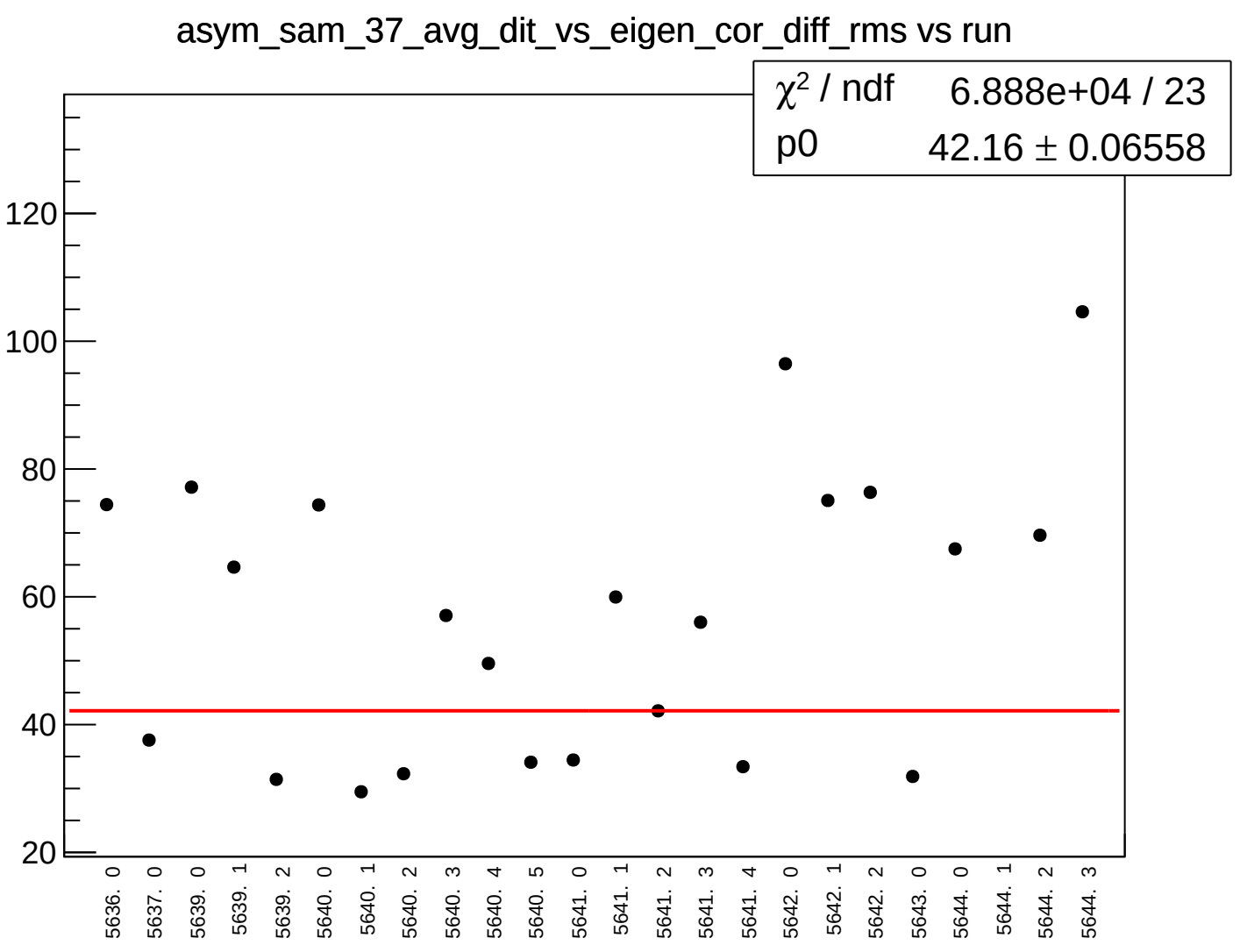

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 31.73 / 23
p0 −1.616e−13 ± 1.206e−13
0.001
0.0005
0
−0.0005
−0.001
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 24.82
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 24
Mean −0.2108
Std Dev 1.13
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

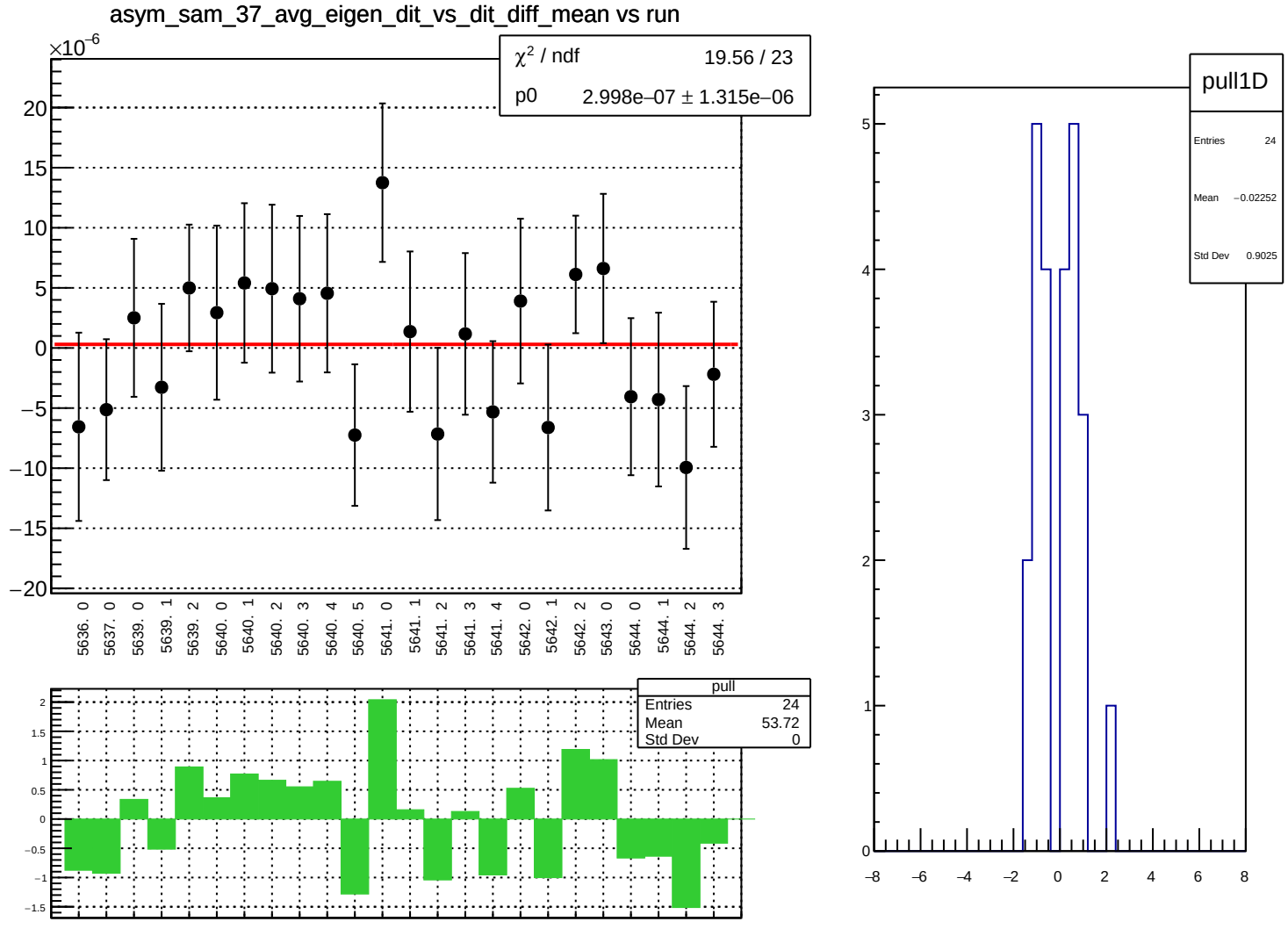

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.171e+05 / 23
p0 3.465e−11 ± 8.528e−14
0.06
0.05
0.04
0.03
0.02
0.01
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

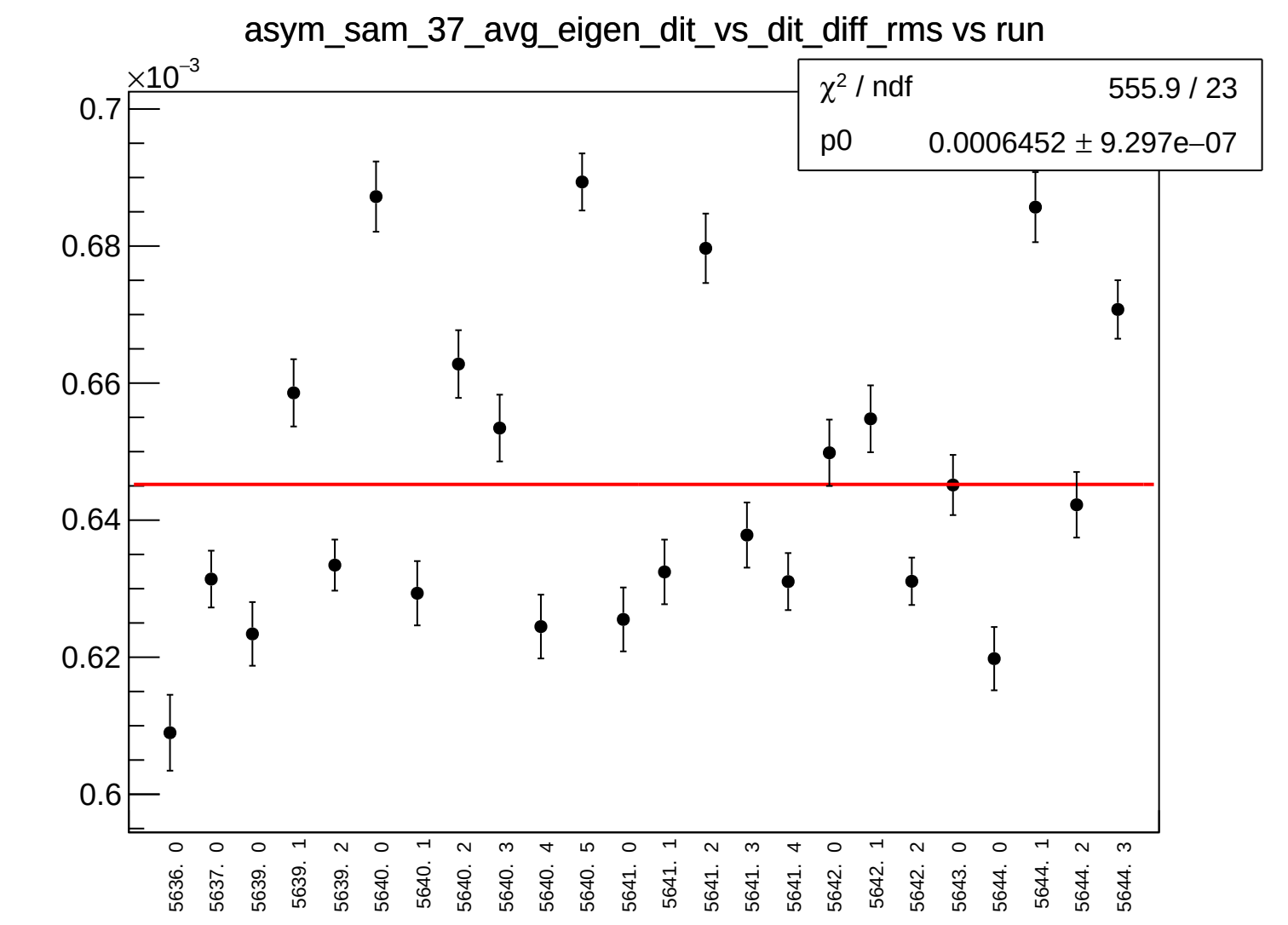

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 14.78 / 23
p0 0.0805 ± 0.09274
2
1
0
−1
−2
−3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 128.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.004219
Std Dev 0.7849
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

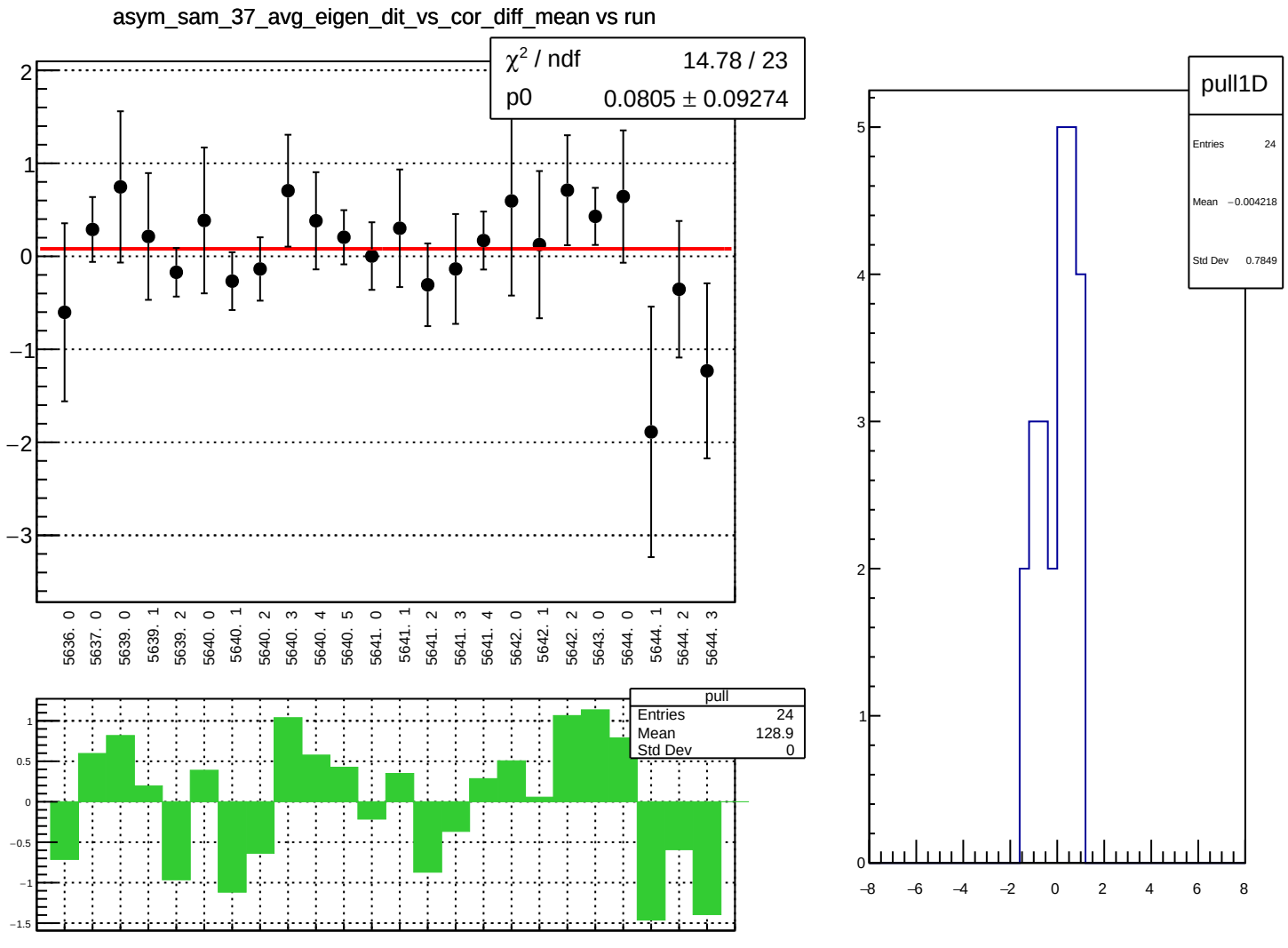

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.888e+04 / 23
p0 42.16 ± 0.06558
120
100
80
60
40
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

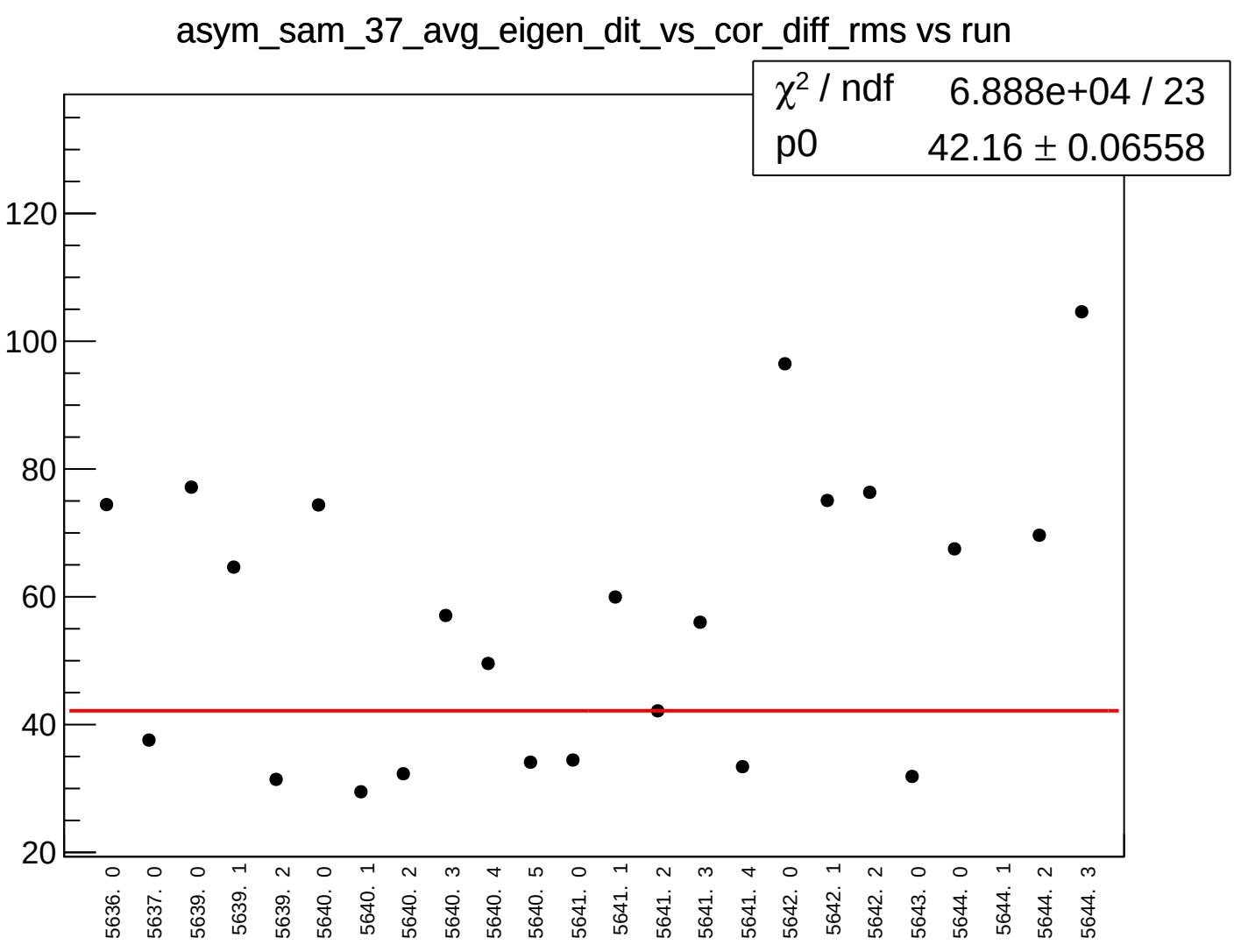

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 14.78 / 23
p0 0.0805 ± 0.09274
2
1
0
−1
−2
−3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 128.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.004219
Std Dev 0.7849
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

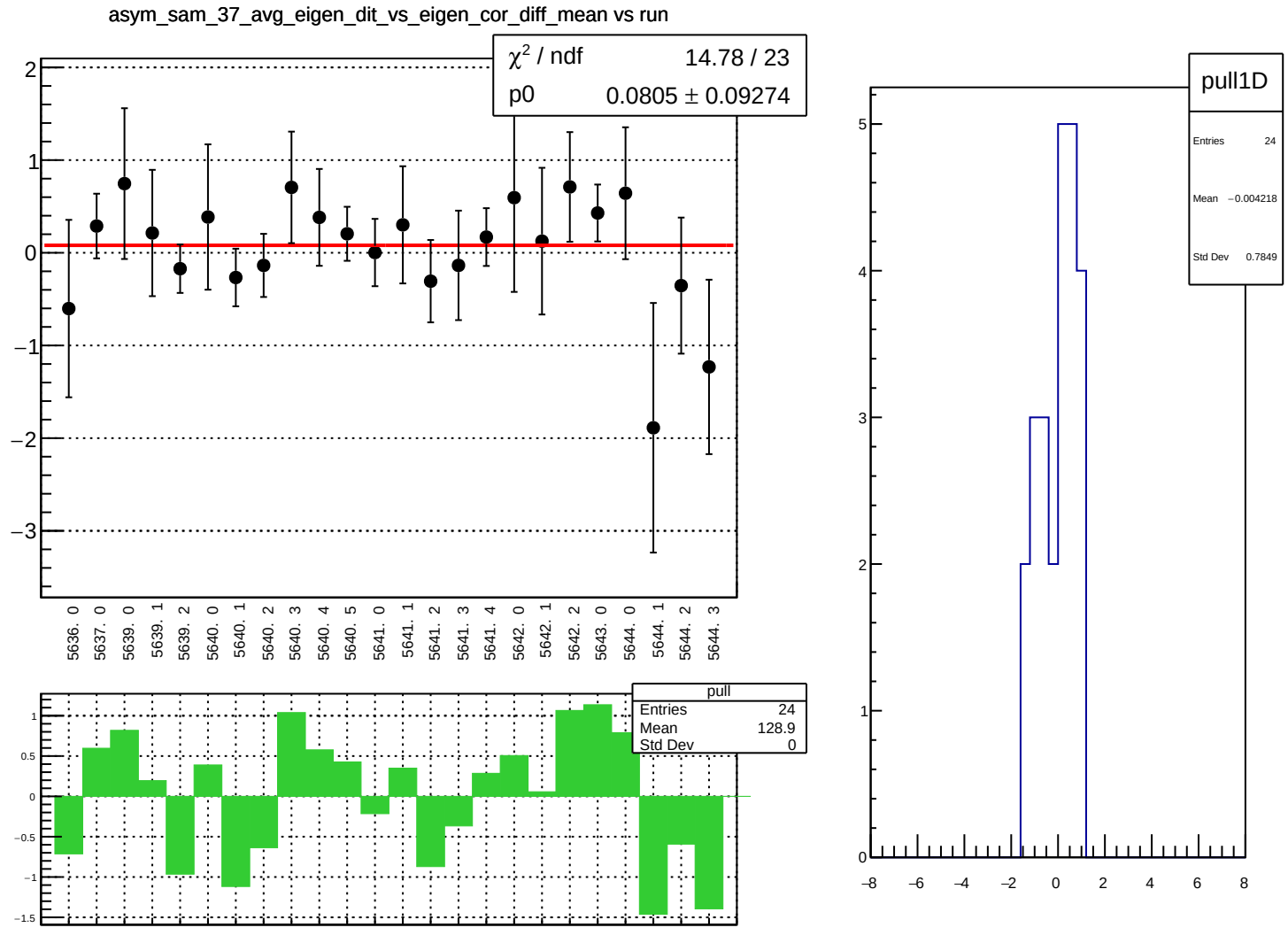

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.888e+04 / 23
p0 42.16 ± 0.06558
120
100
80
60
40
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

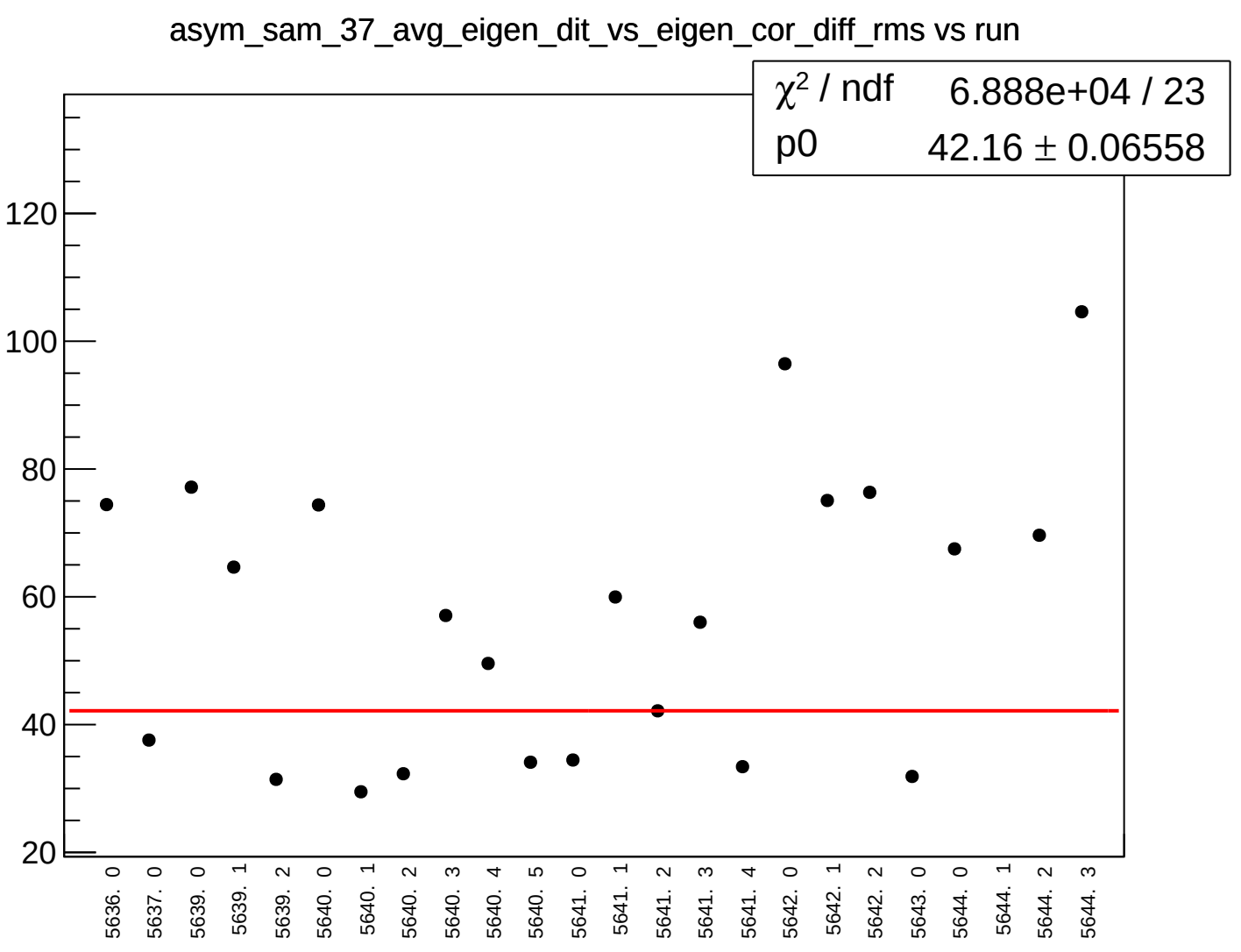

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 19.56 / 23
p0 2.998e−07 ± 1.315e−06
20
15
10
5
0
−5
−10
−15
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 53.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.02252
Std Dev 0.9025
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

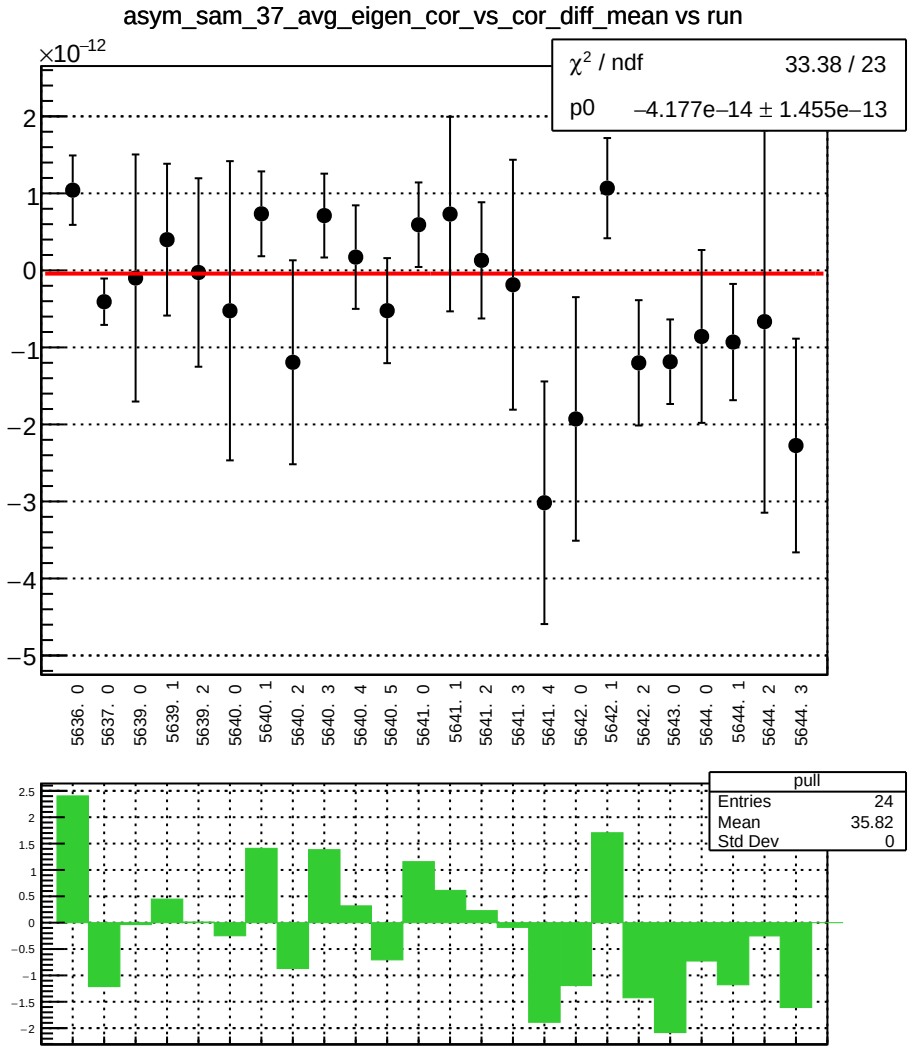

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 555.9 / 23
p0 0.0006452 ± 9.297e−07
0.7
0.68
0.66
0.64
0.62
0.6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

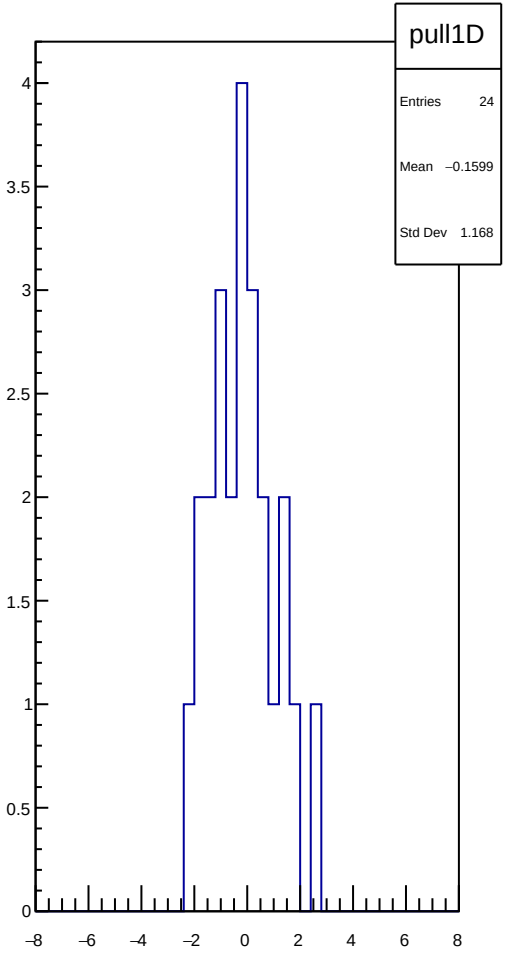

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 14.78 / 23
p0 0.0805 ± 0.09274
2
1
0
−1
−2
−3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 128.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.004218
Std Dev 0.7849
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

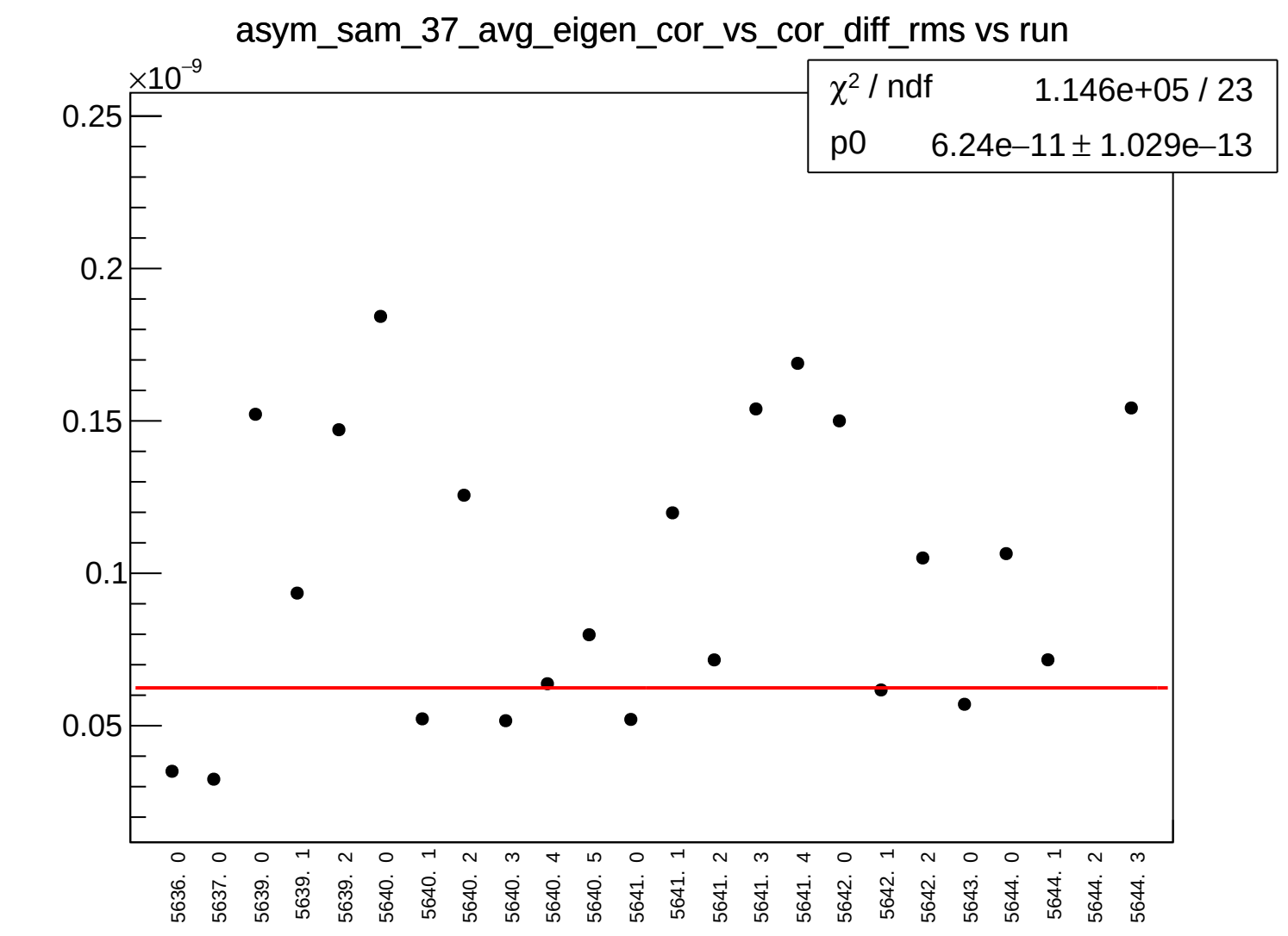

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.888e+04 / 23
p0 42.16 ± 0.06558
120
100
80
60
40
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

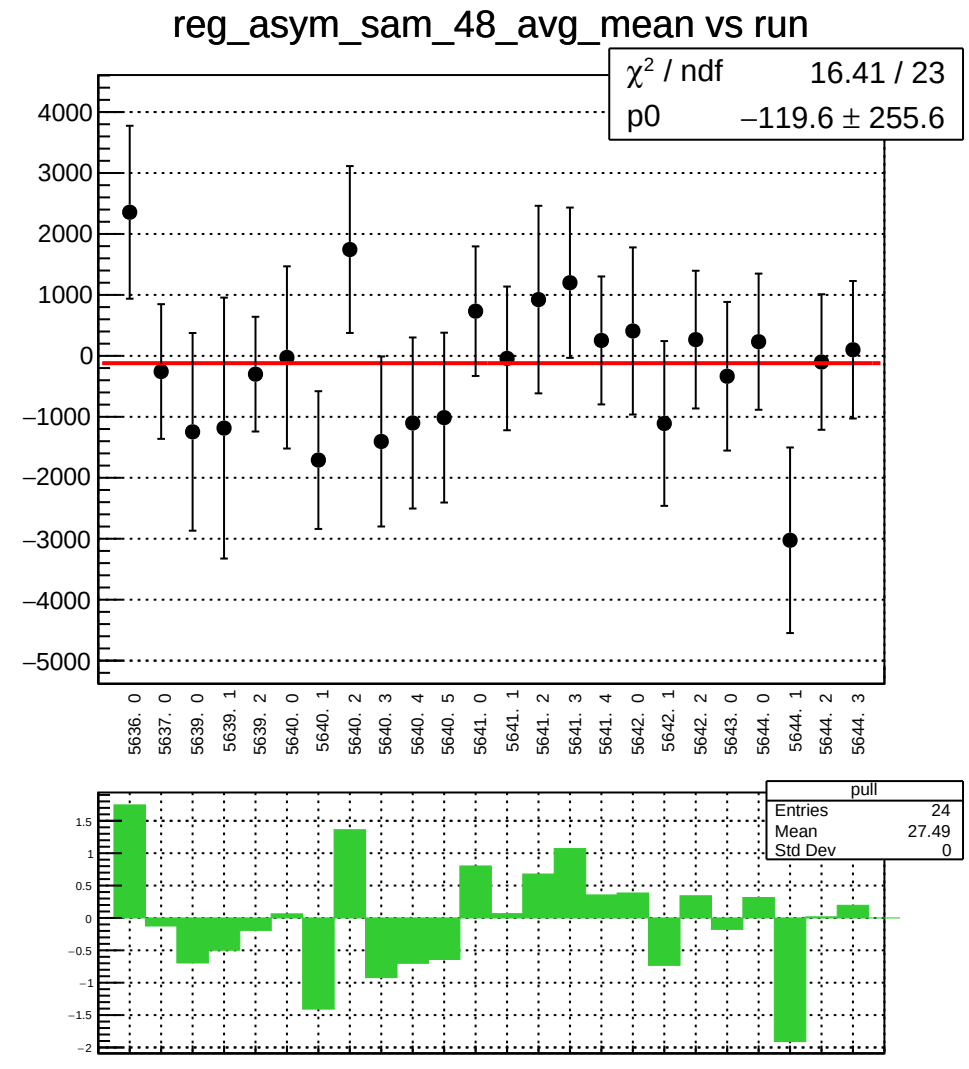

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 14.78 / 23
p0 0.0805 ± 0.09274
2
1
0
−1
−2
−3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 128.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.004218
Std Dev 0.7849
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

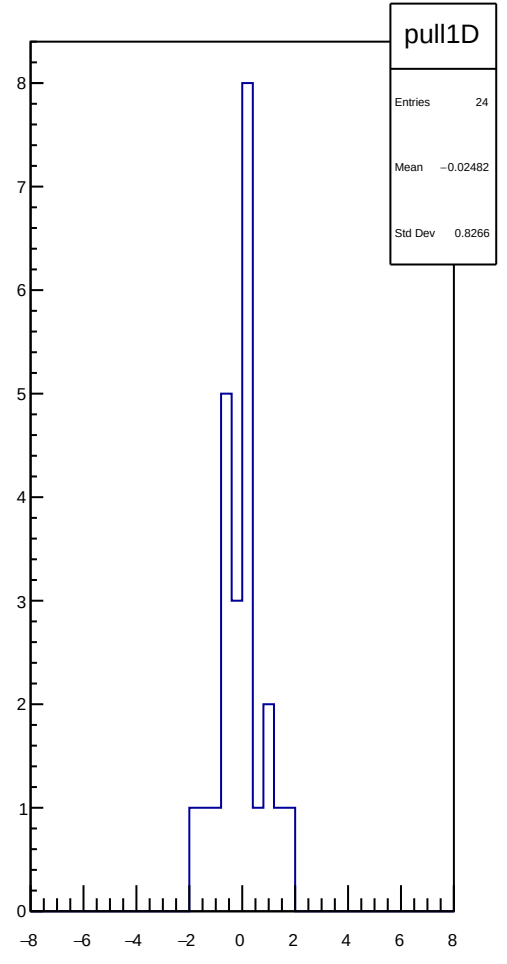

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.888e+04 / 23
p0 42.16 ± 0.06558
120
100
80
60
40
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

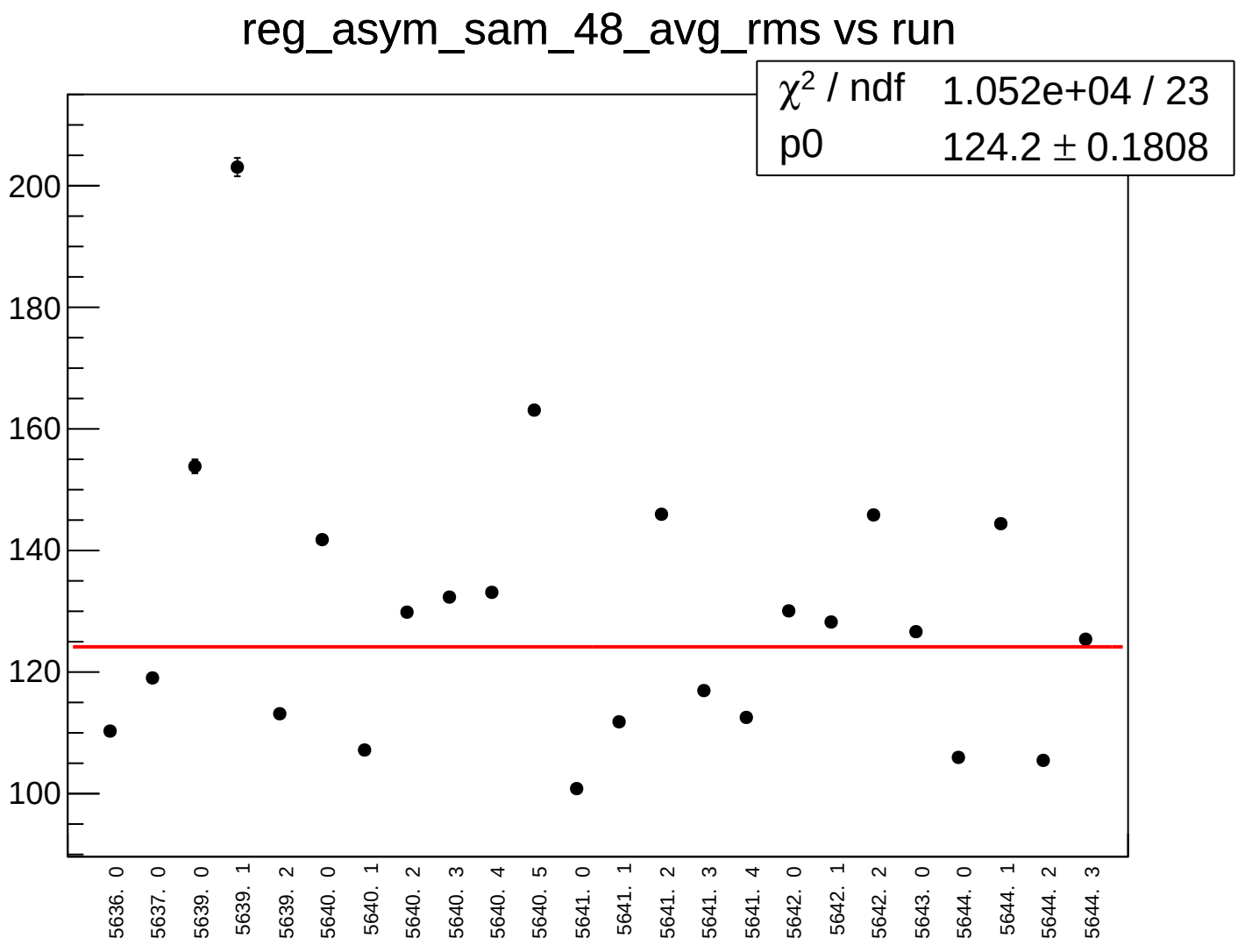

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 33.38 / 23
p0 −4.177e−14 ± 1.455e−13
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 35.82
Std Dev 0

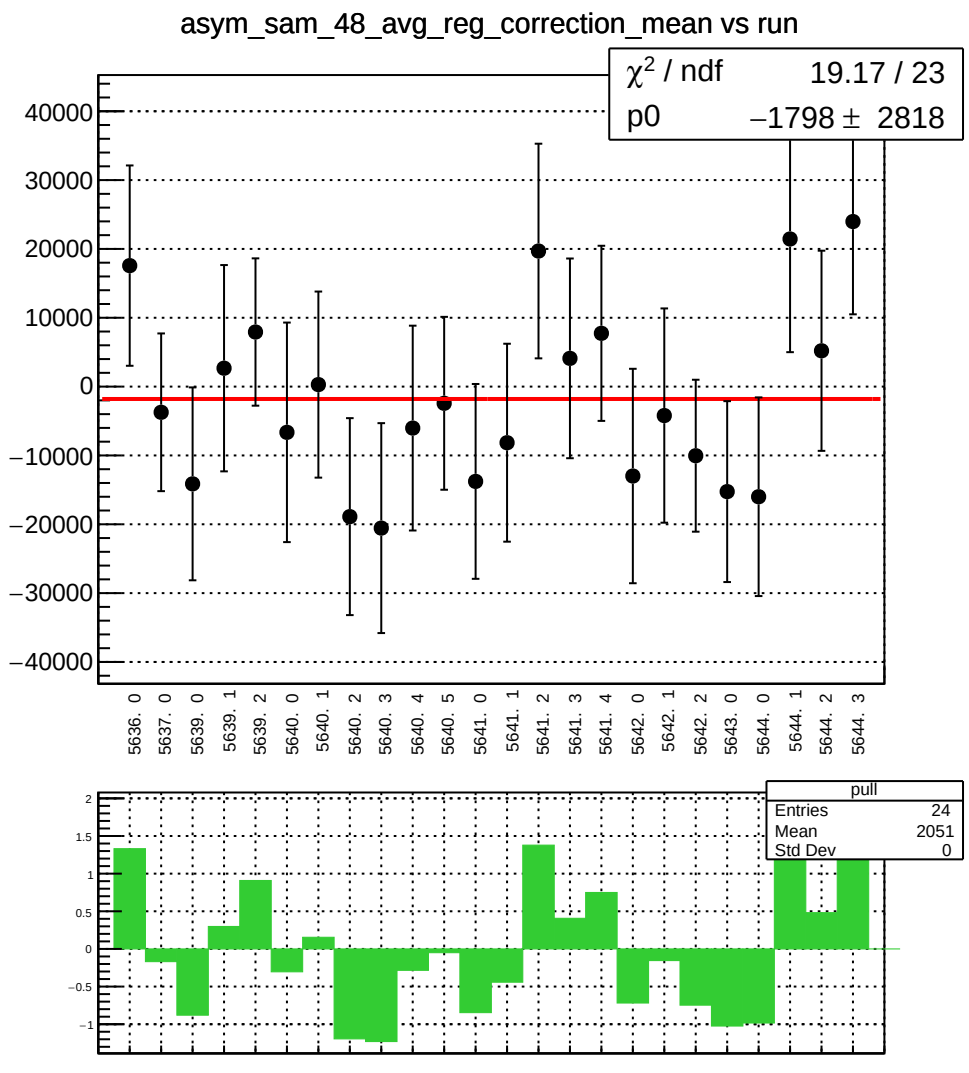

pull1D
Entries 24
Mean −0.1599
Std Dev 1.168

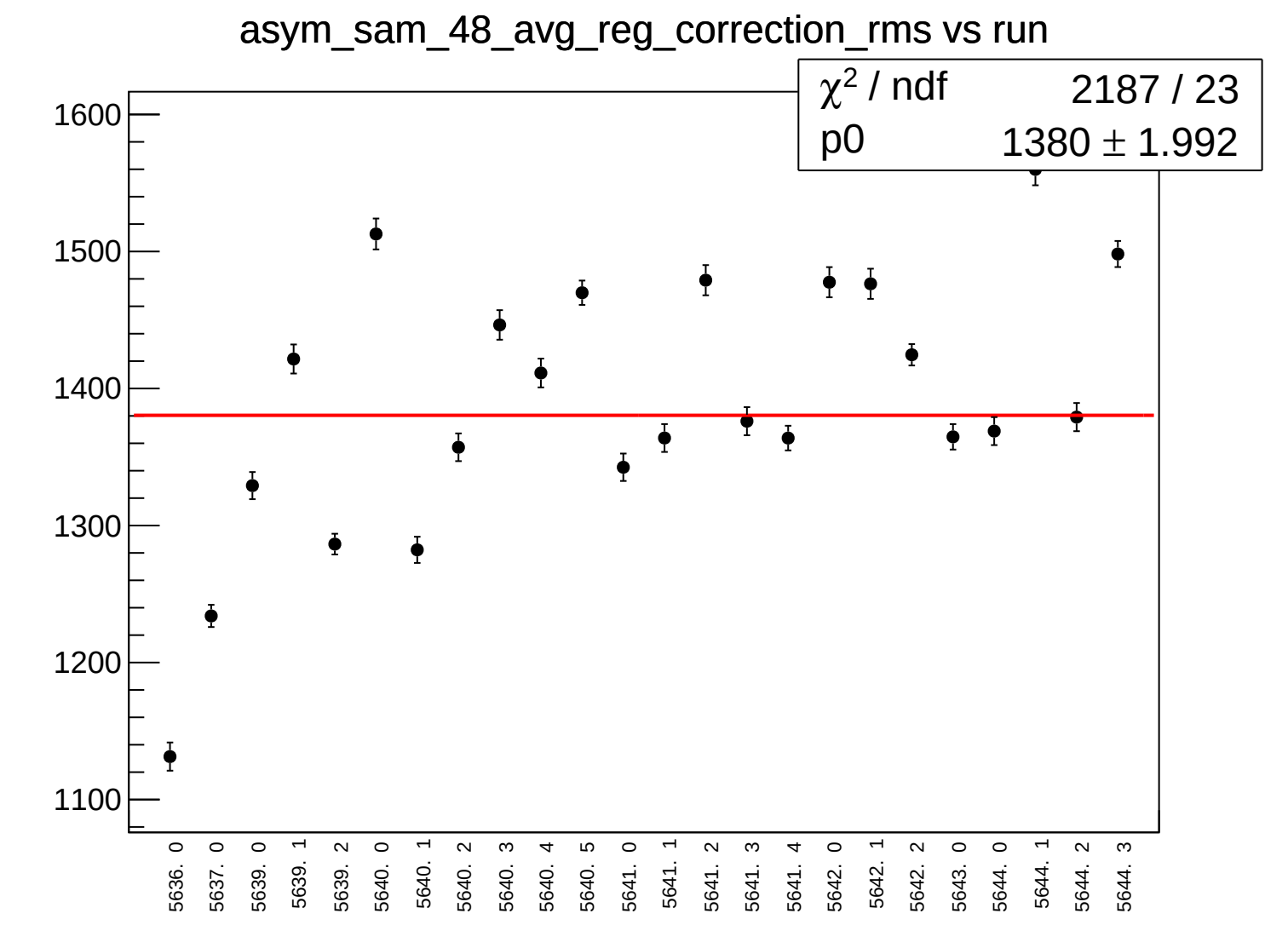

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.146e+05 / 23
p0 6.24e−11 ± 1.029e−13
0.25
0.2
0.15
0.1
0.05
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

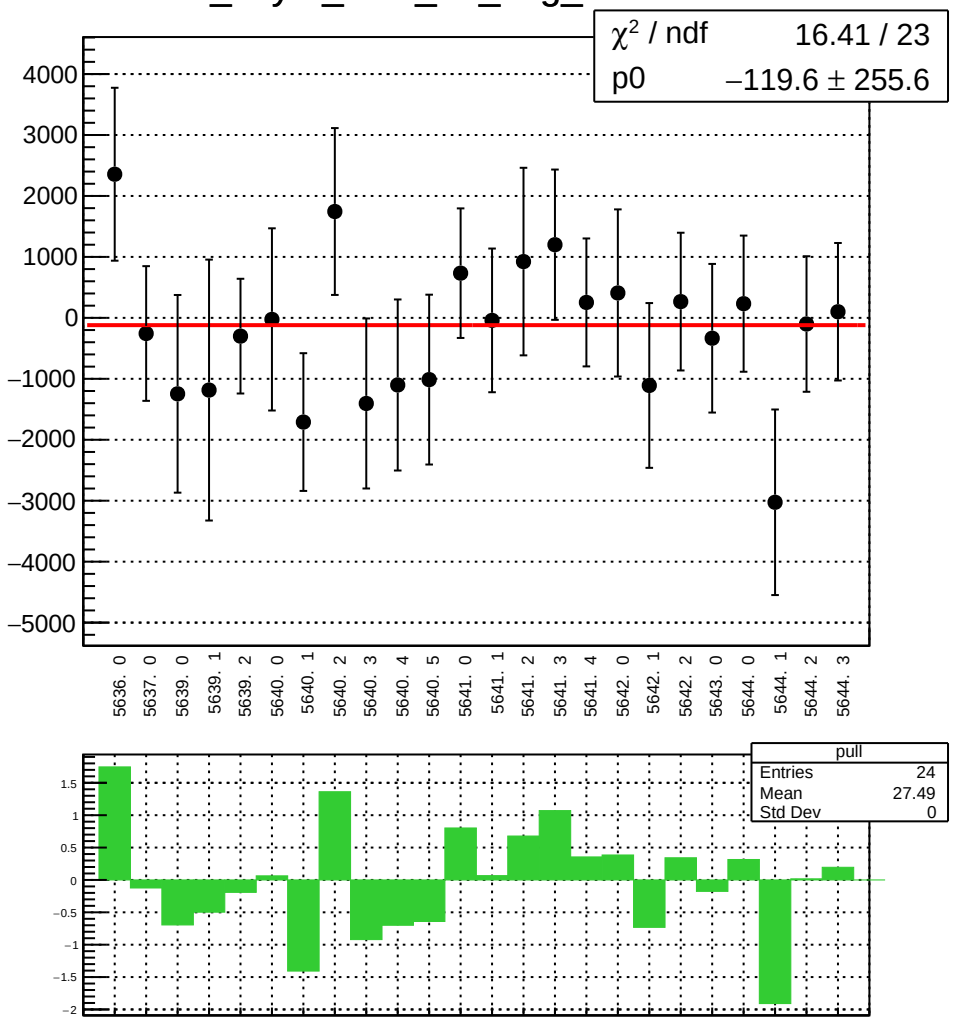

reg_asym_sam_48_avg_mean vs run
χ² / ndf 16.41 / 23
p0 −119.6 ± 255.6
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 27.49
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

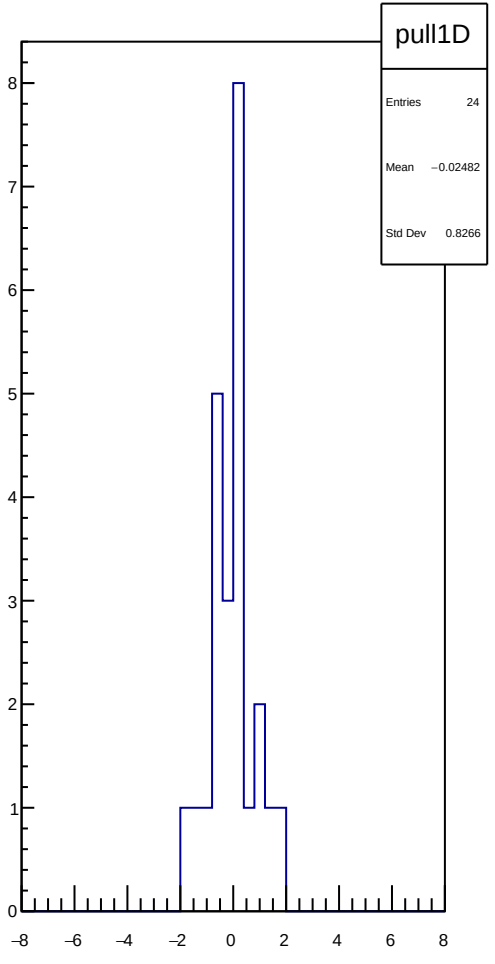

pull1D
Entries 24
Mean −0.02482
Std Dev 0.8266
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

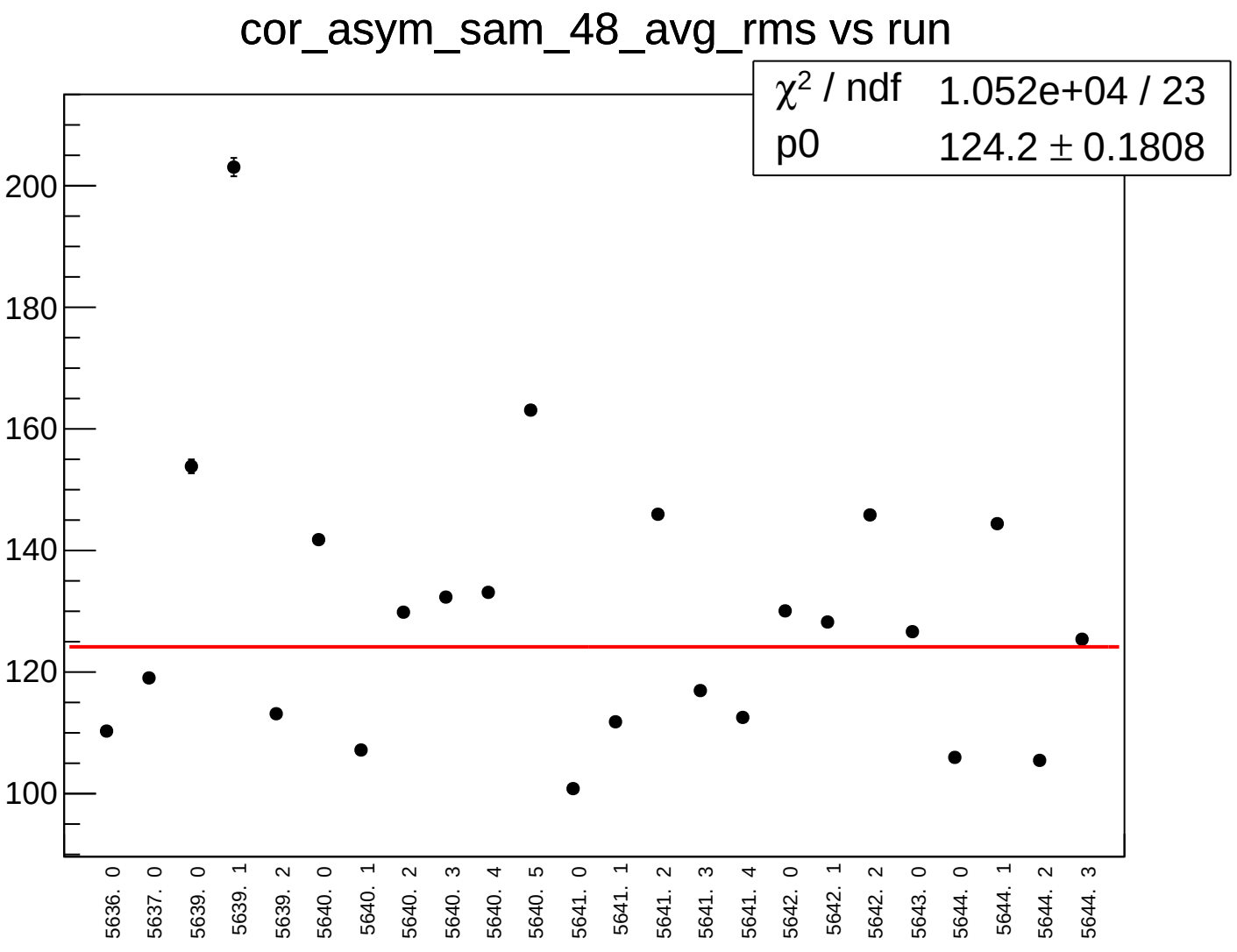

reg_asym_sam_48_avg_rms vs run
χ² / ndf 1.052e+04 / 23
p0 124.2 ± 0.1808
200
180
160
140
120
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 19.17 / 23
p0 −1798 ± 2818
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 2051
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.0003775
Std Dev 0.8938
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 2187 / 23
p0 1380 ± 1.992
1600
1500
1400
1300
1200
1100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


cor_asym_sam_48_avg_mean vs run
χ² / ndf 16.41 / 23
p0 −119.6 ± 255.6
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 27.49
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.02482
Std Dev 0.8266
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_48_avg_rms vs run
χ² / ndf 1.052e+04 / 23
p0 124.2 ± 0.1808
200
180
160
140
120
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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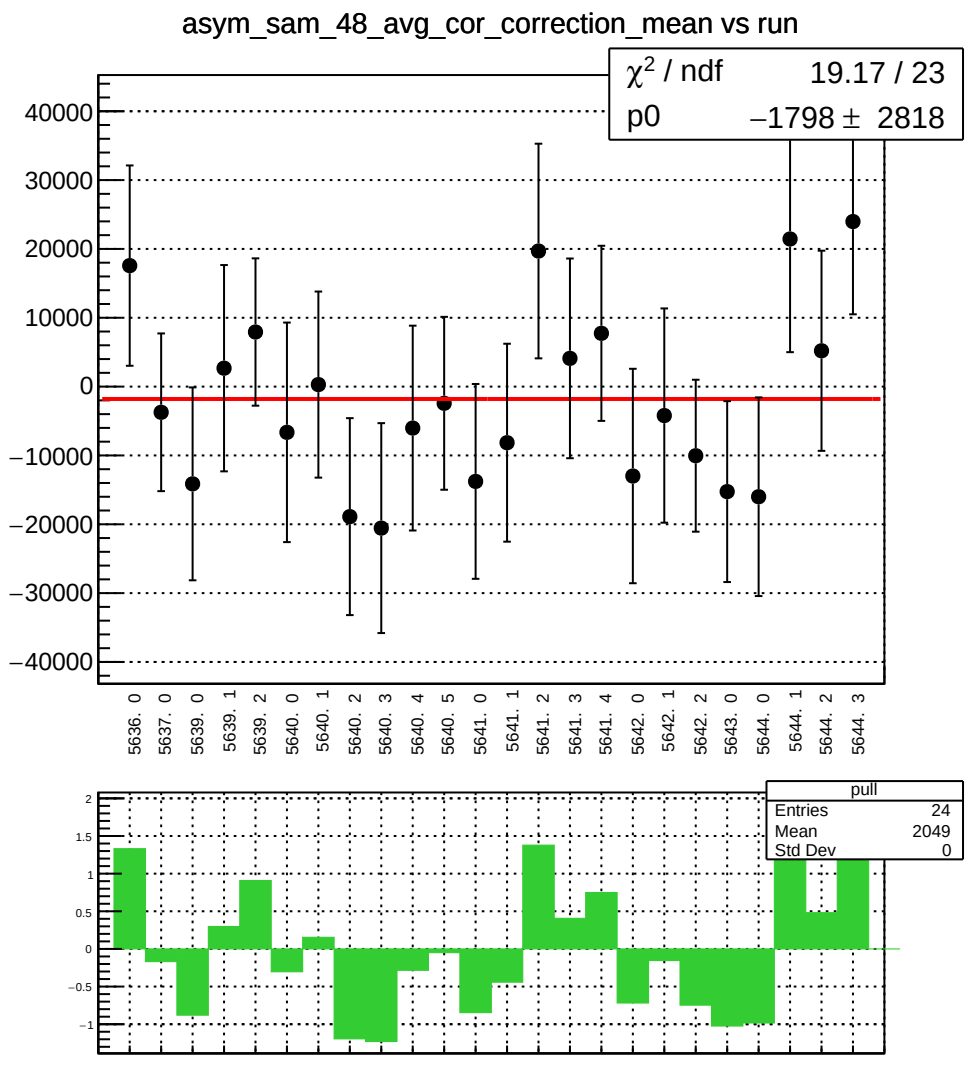
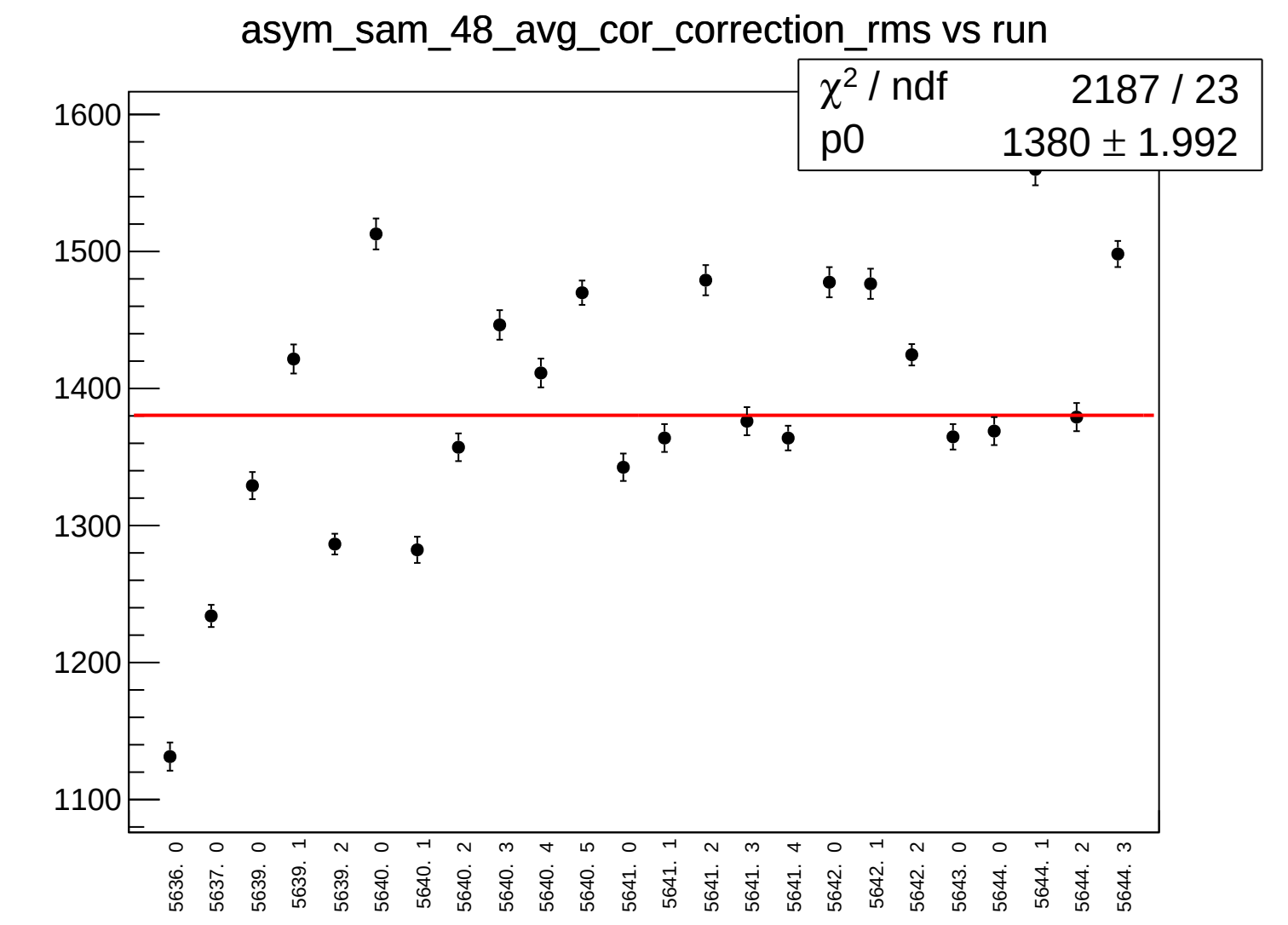
5644. 2
5644. 3


asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 19.17 / 23
p0 −1798 ± 2818
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 2049
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.0003777
Std Dev 0.8938
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 2187 / 23
p0 1380 ± 1.992
1600
1500
1400
1300
1200
1100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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5642. 0
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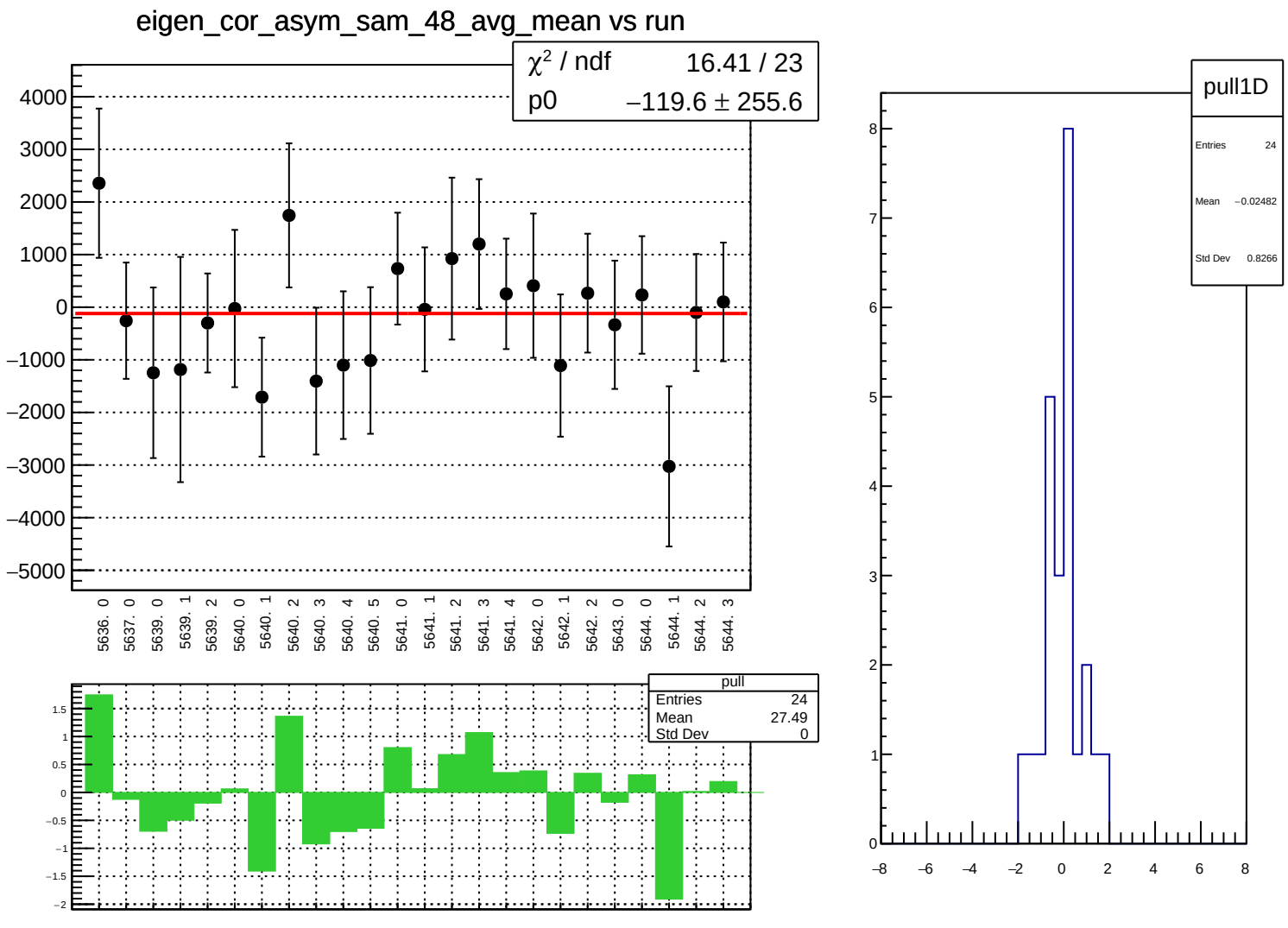
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 16.41 / 23
p0 −119.6 ± 255.6
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 27.49
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.02482
Std Dev 0.8266
8
7
6
5
4
3
2
1
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−8
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−4
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2
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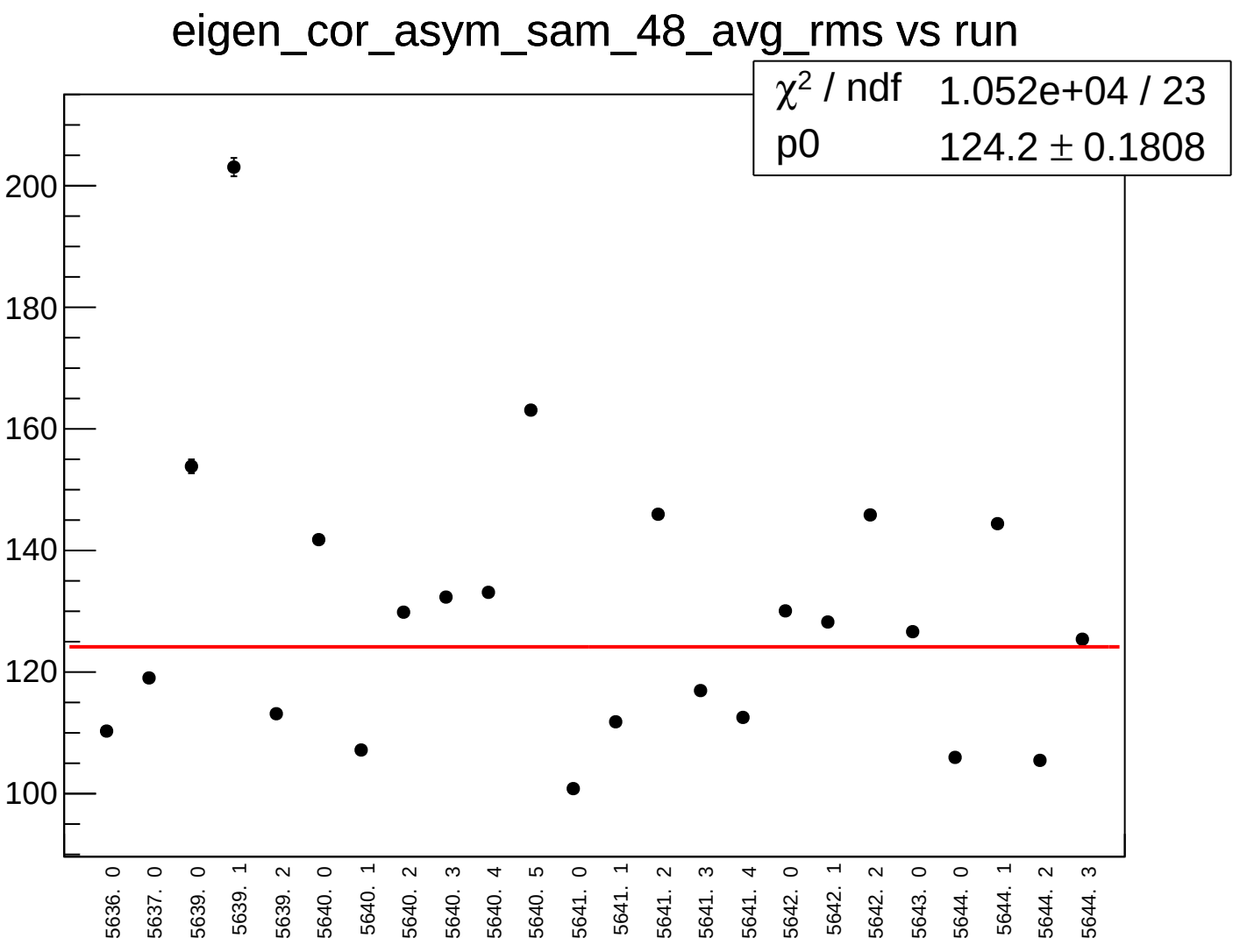
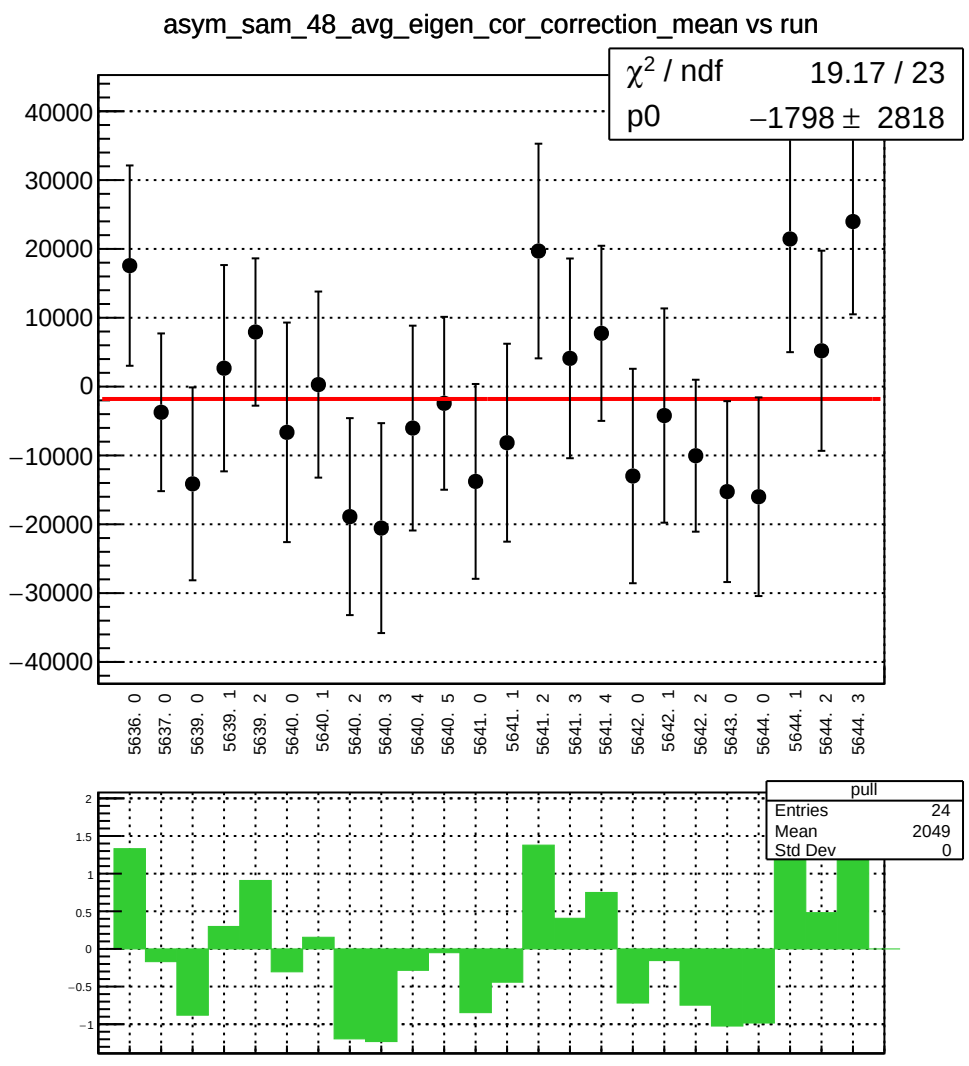
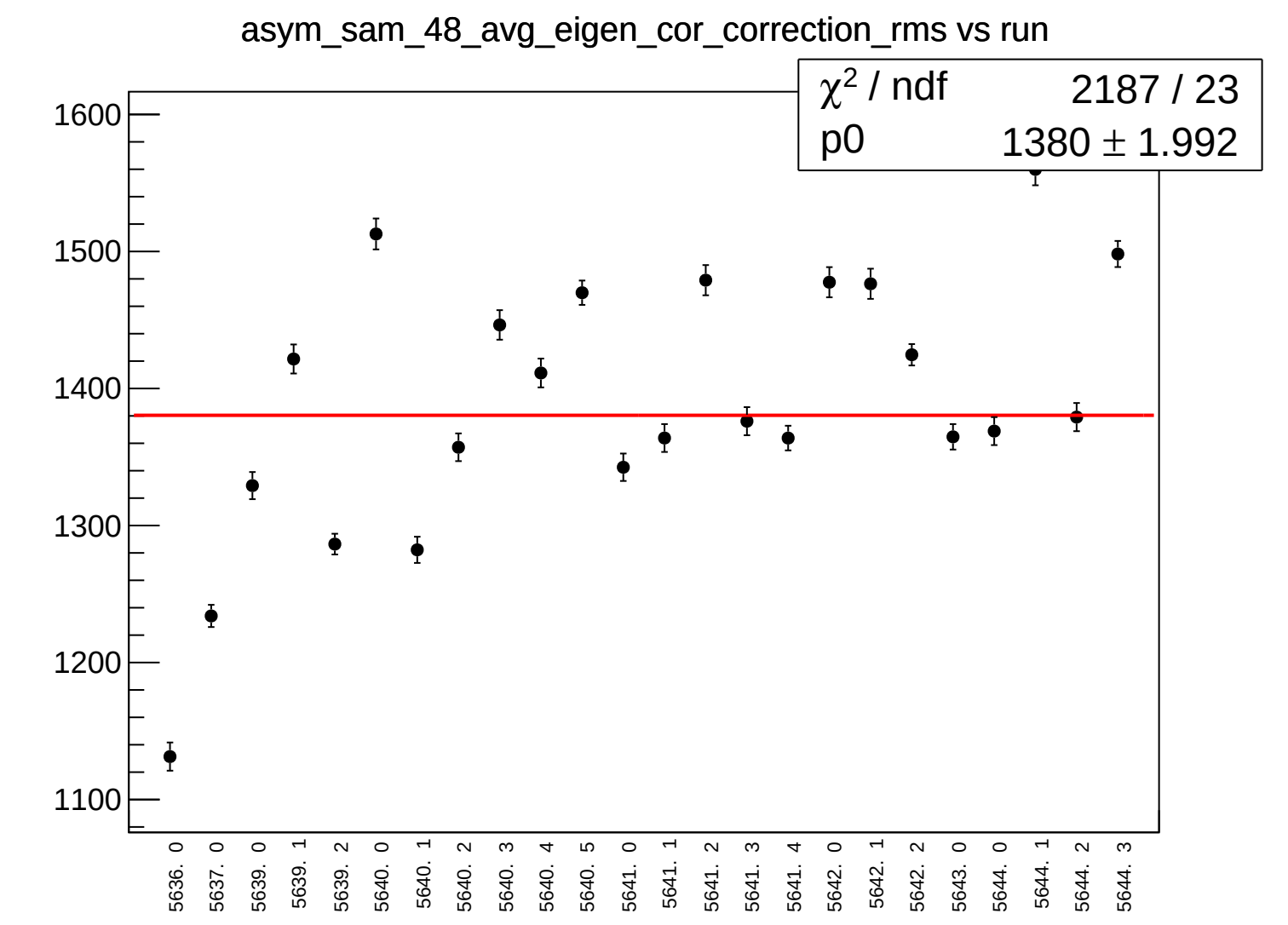
6
8


eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 1.052e+04 / 23
p0 124.2 ± 0.1808
200
180
160
140
120
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 19.17 / 23
p0 −1798 ± 2818
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 2049
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.0003777
Std Dev 0.8938
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 2187 / 23
p0 1380 ± 1.992
1600
1500
1400
1300
1200
1100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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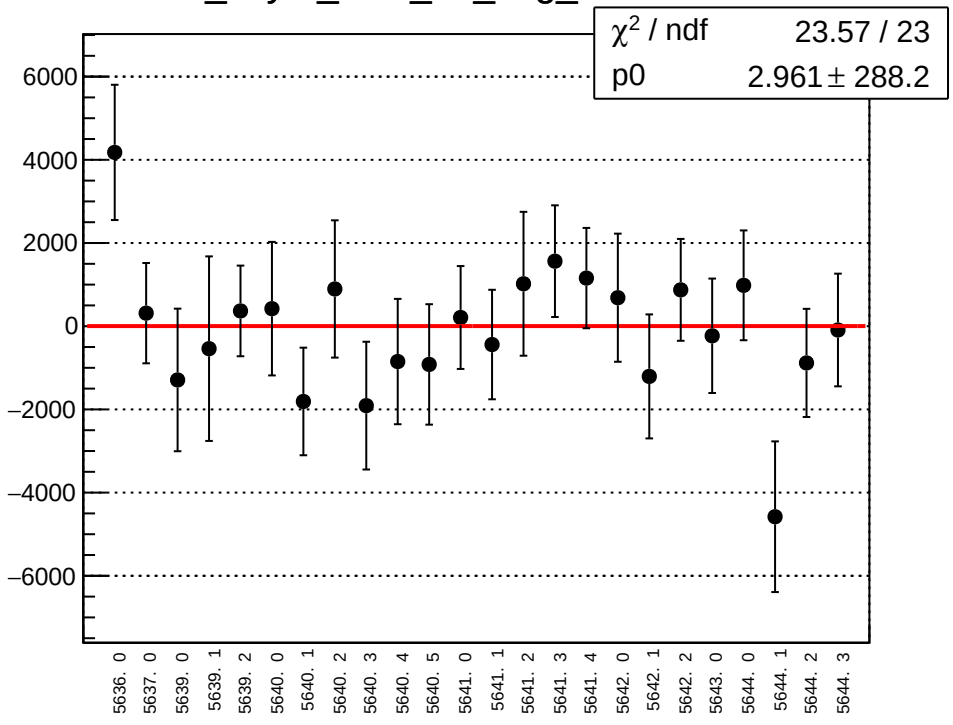
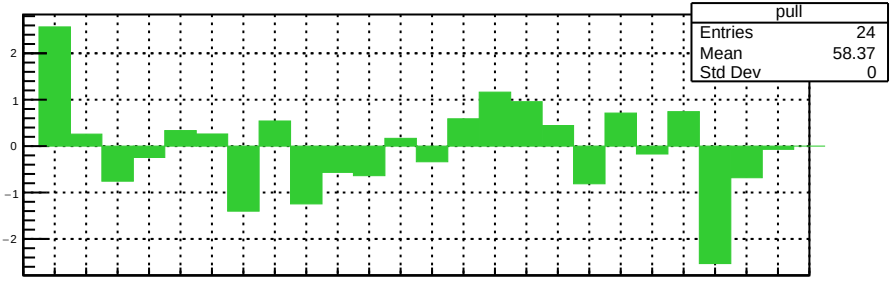
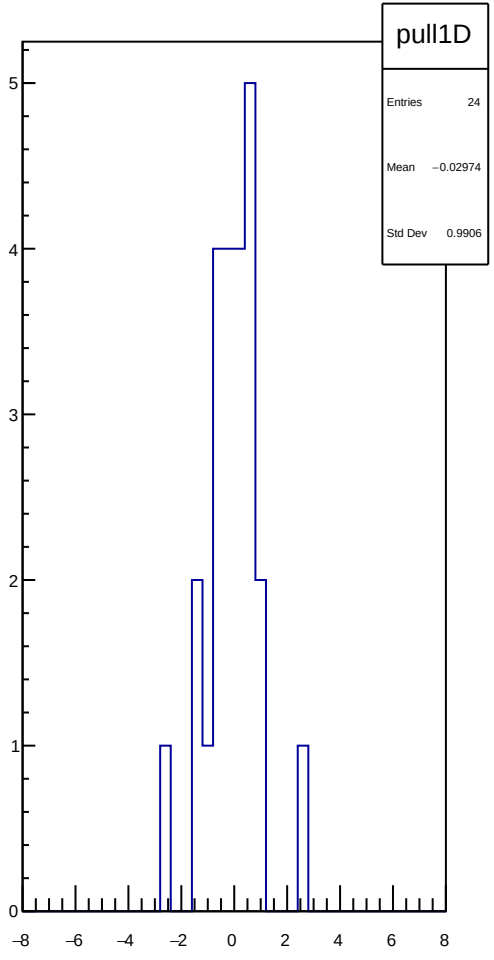
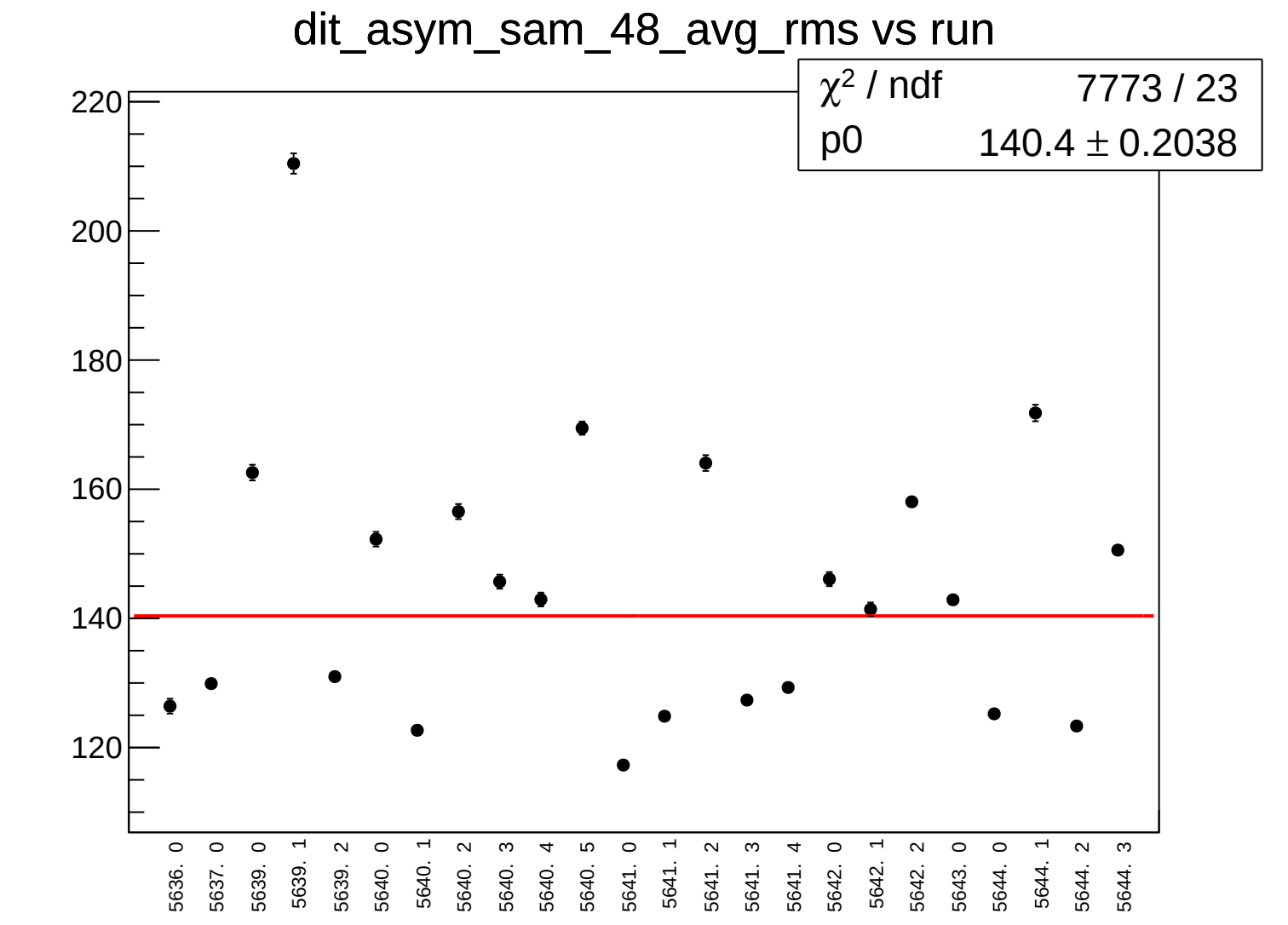
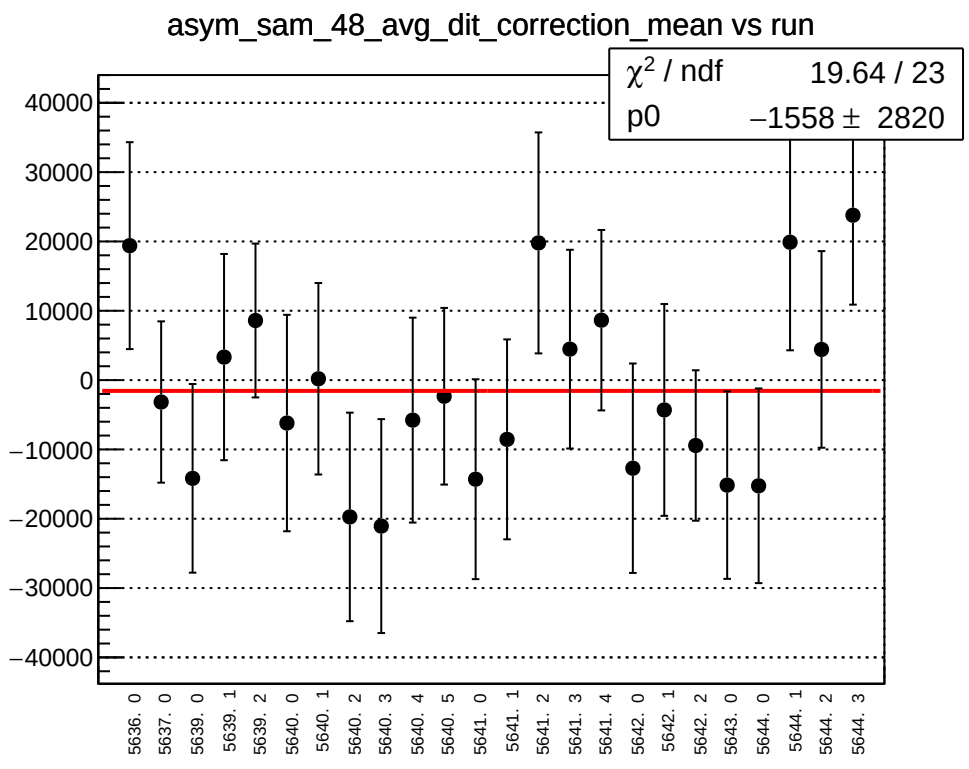
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

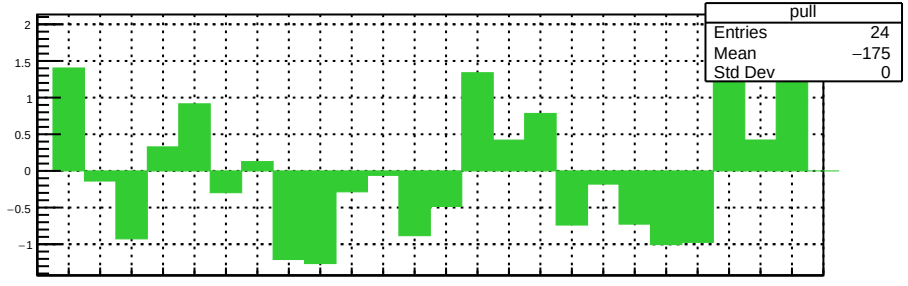

dit_asym_sam_48_avg_mean vs run
χ² / ndf 23.57 / 23
p0 2.961 ± 288.2
6000
4000
2000
0
−2000
−4000
−6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

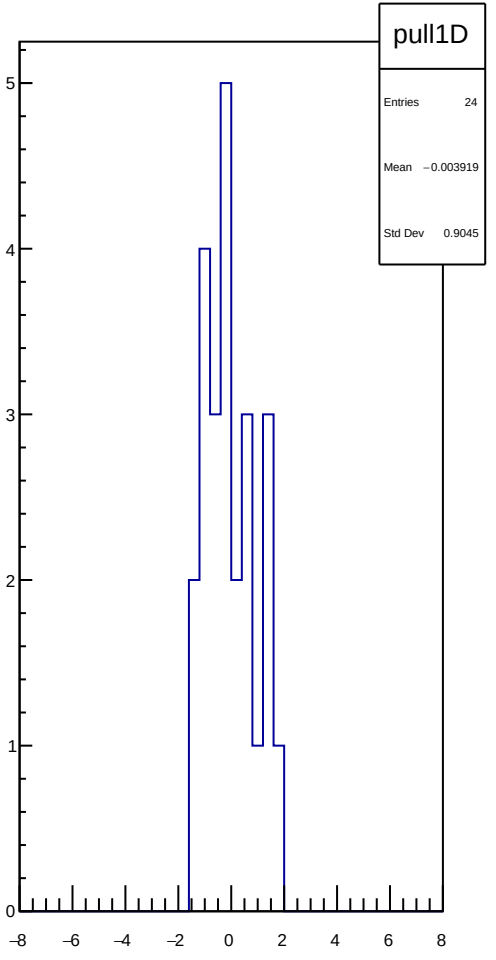

pull
Entries 24
Mean 58.37
Std Dev 0
2
1
0
−1
−2

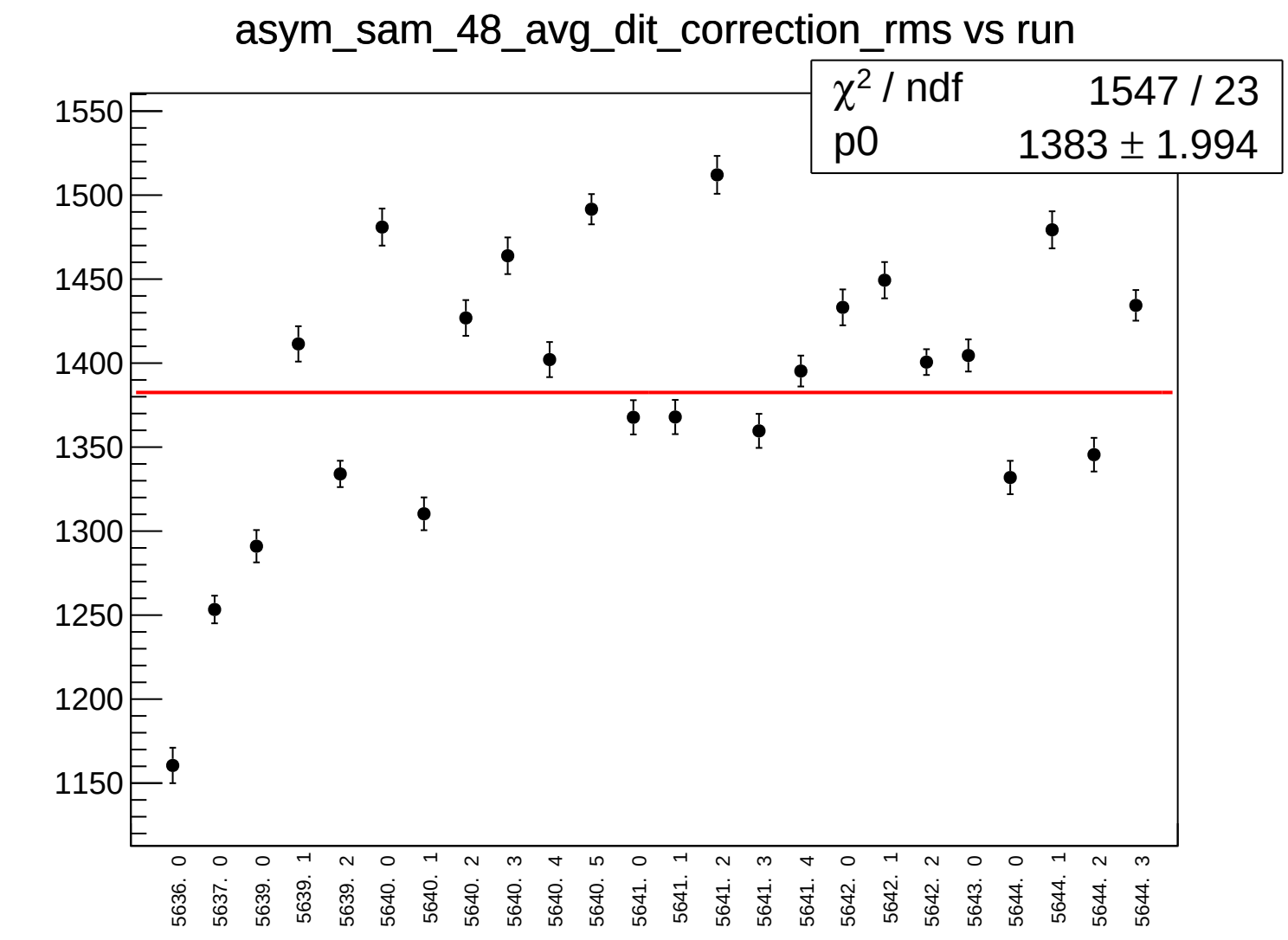

pull1D
Entries 24
Mean −0.02974
Std Dev 0.9906
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

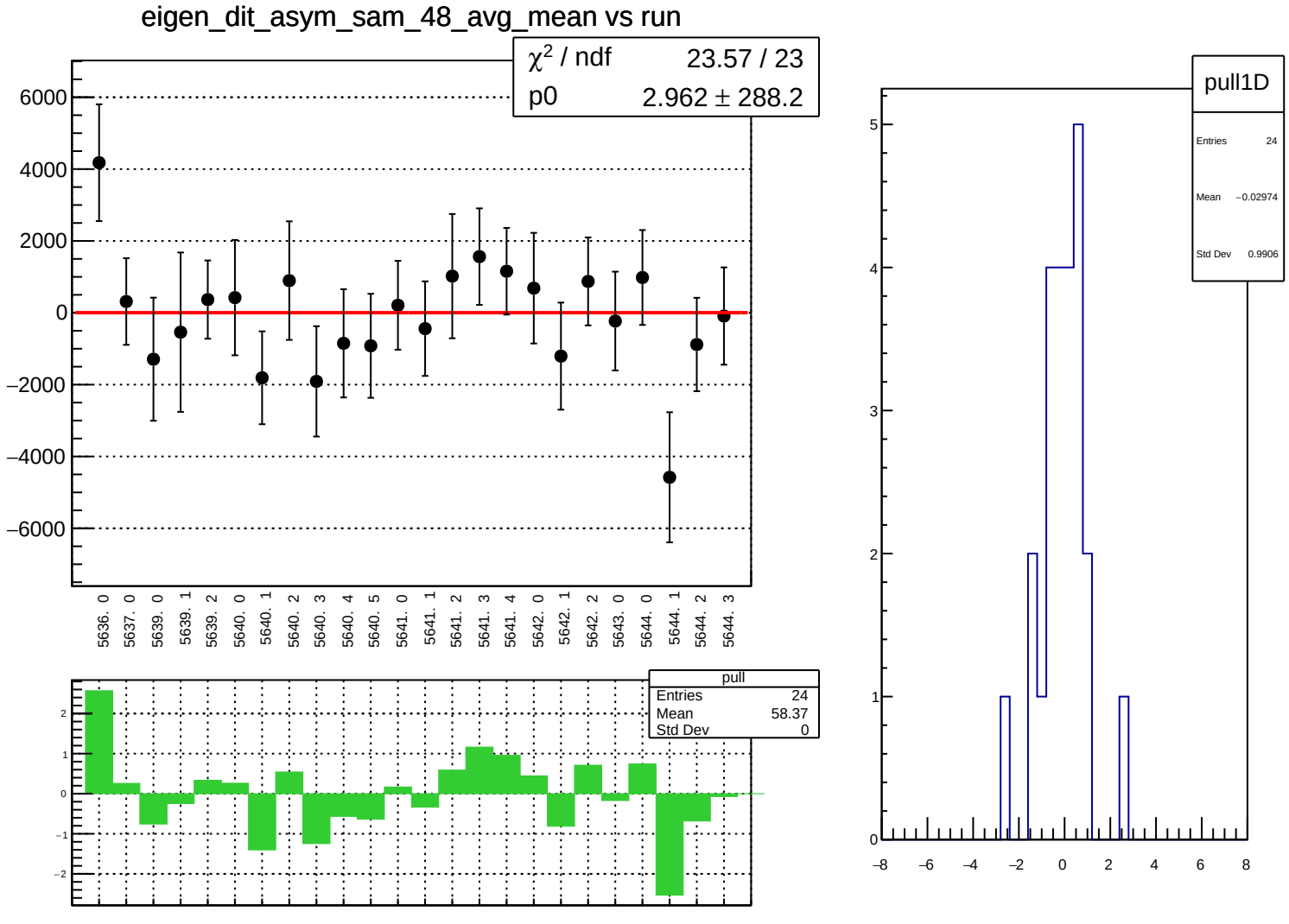

dit_asym_sam_48_avg_rms vs run
χ² / ndf 7773 / 23
p0 140.4 ± 0.2038
220
200
180
160
140
120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

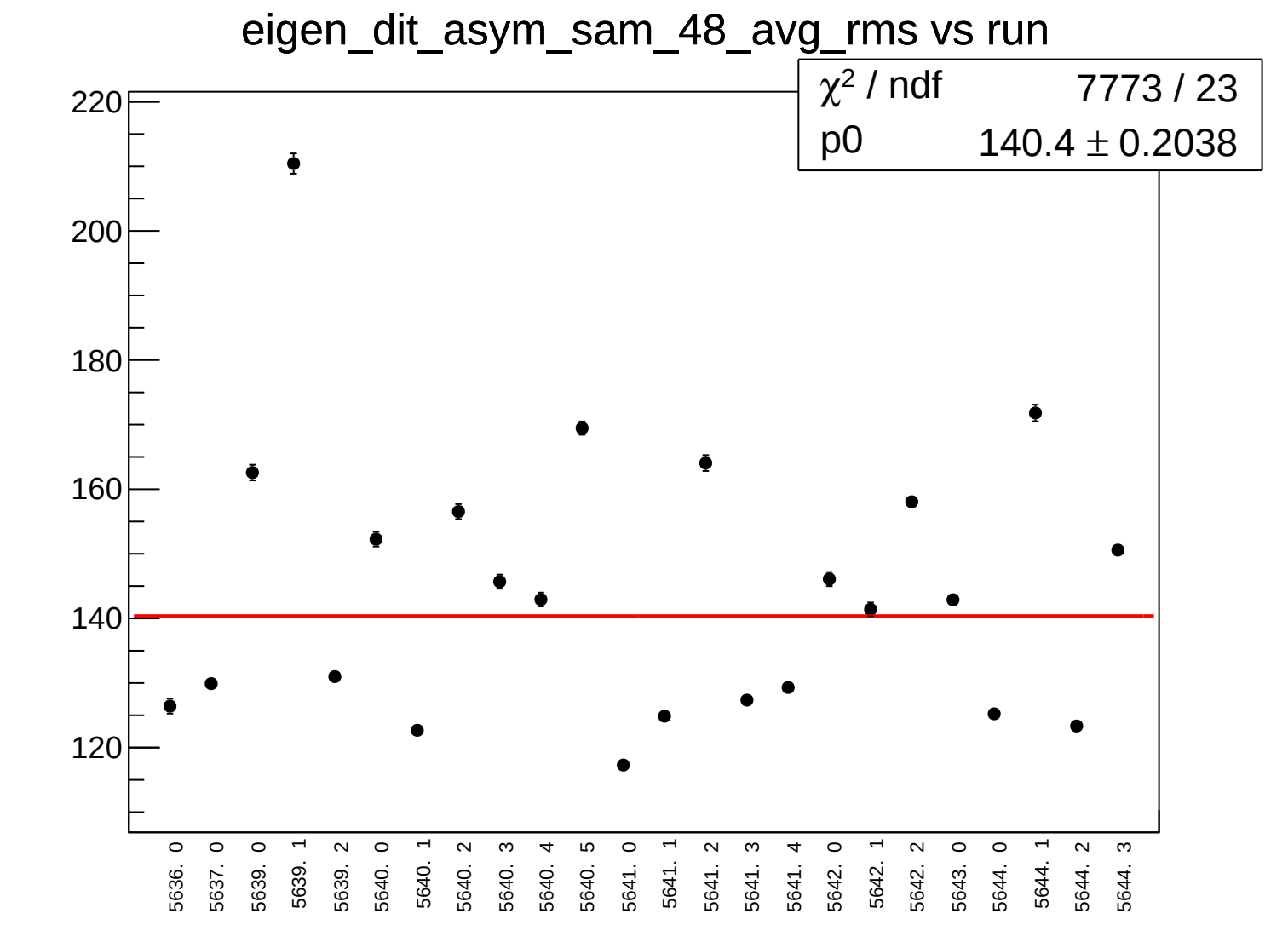

asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 19.64 / 23
p0 −1558 ± 2820
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

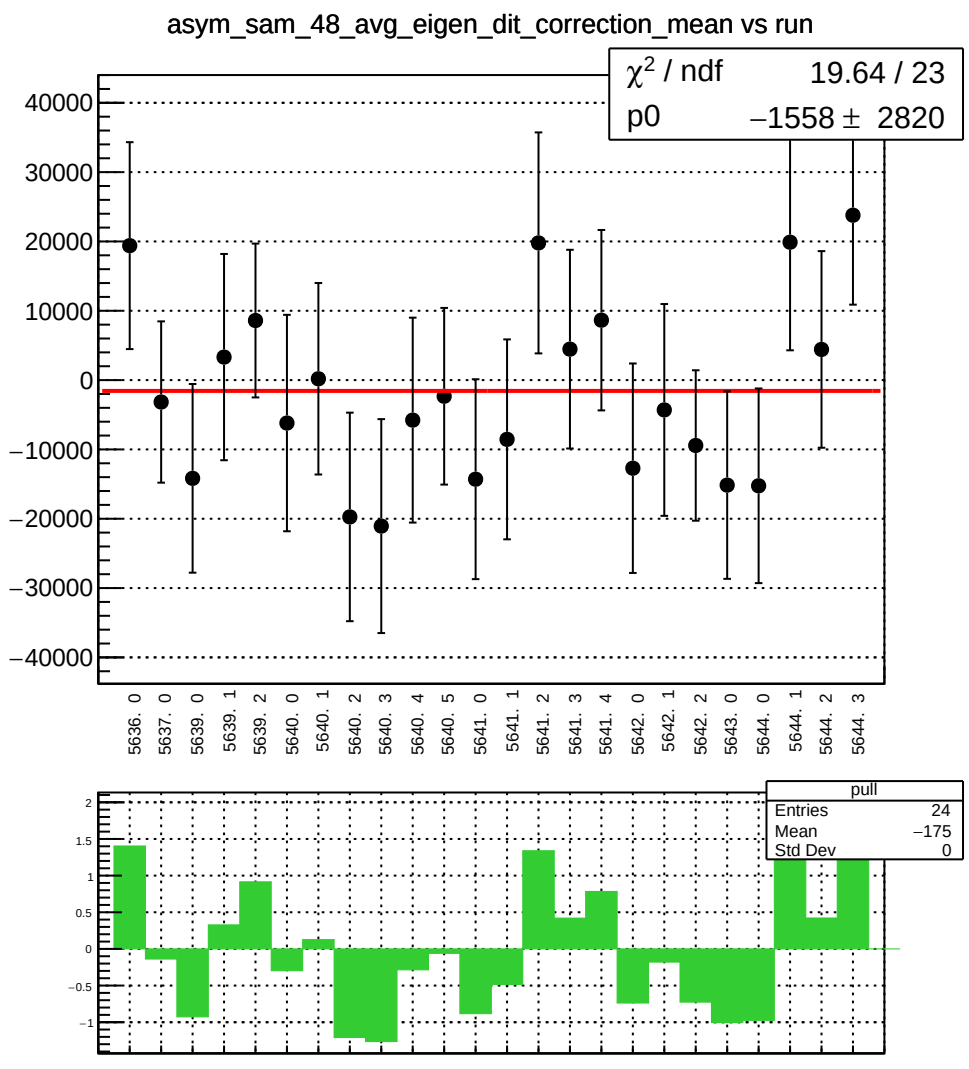

pull
Entries 24
Mean −175
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

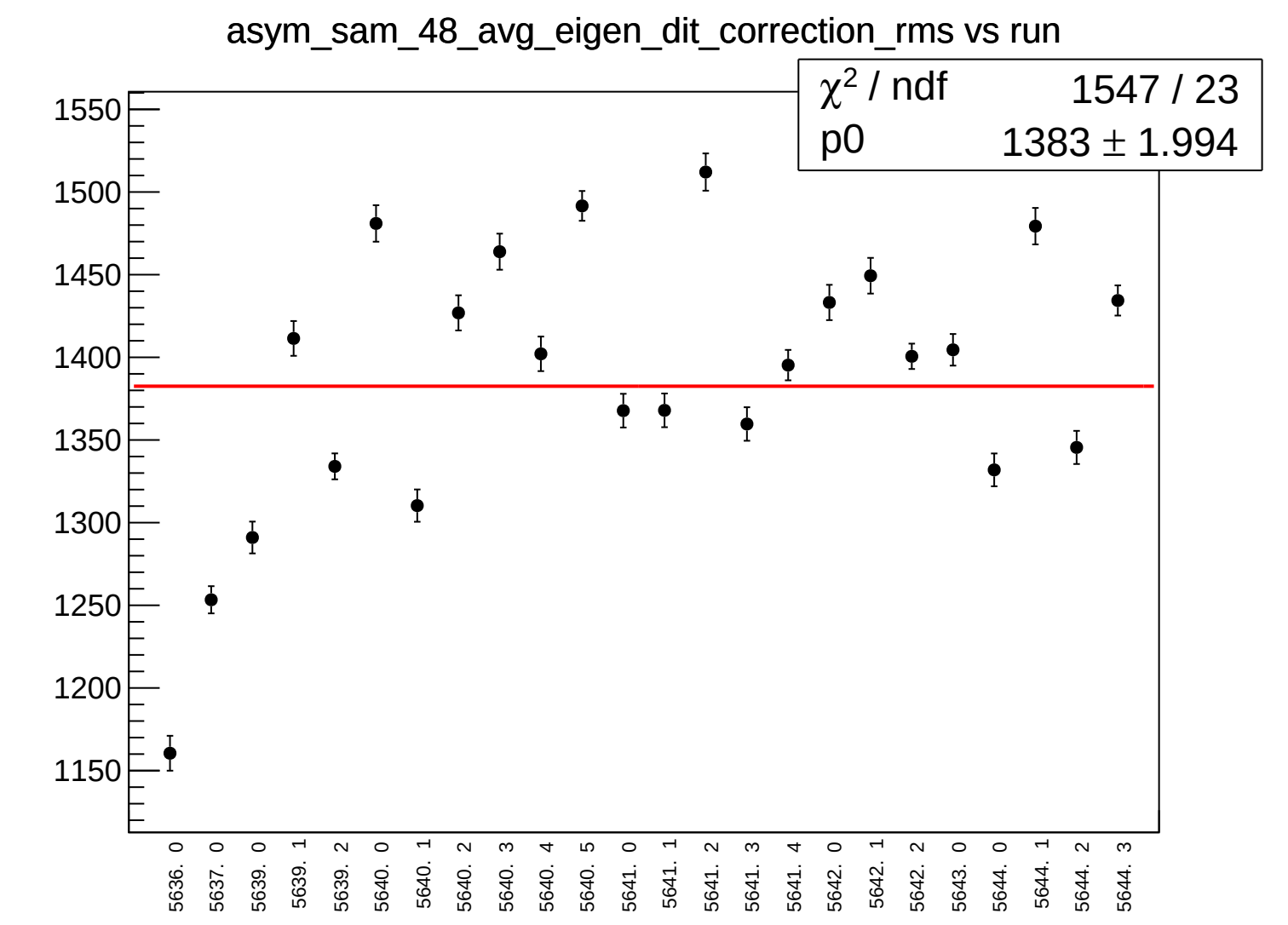

pull1D
Entries 24
Mean −0.003919
Std Dev 0.9045
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

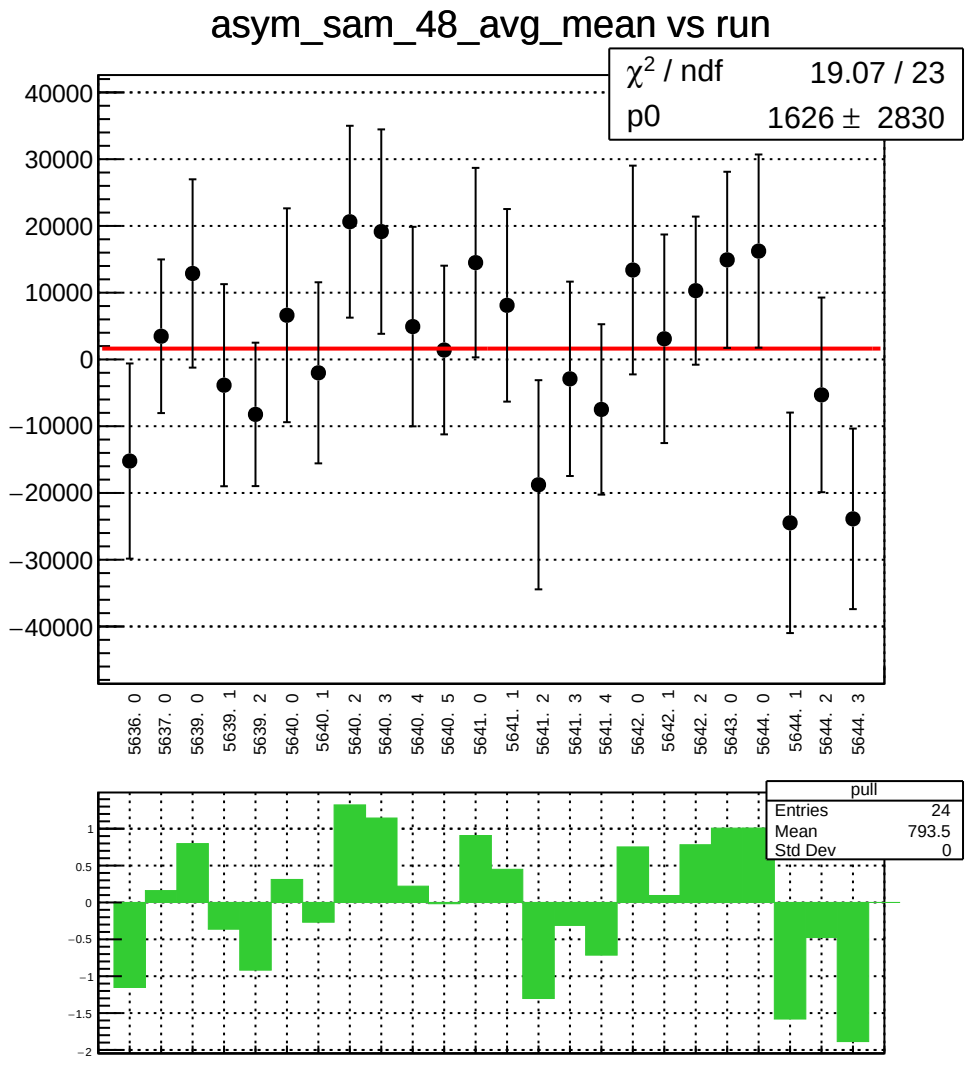

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 1547 / 23
p0 1383 ± 1.994
1550
1500
1450
1400
1350
1300
1250
1200
1150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

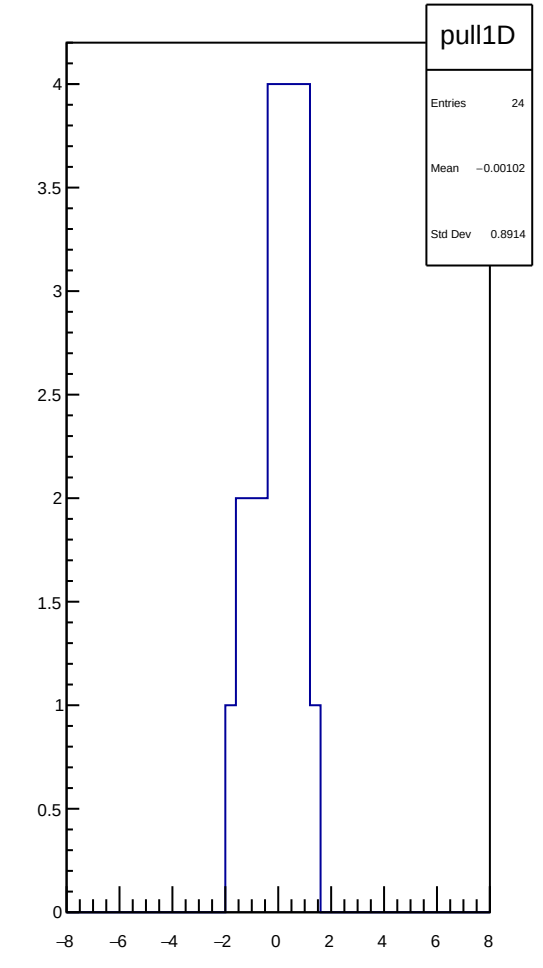

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 23.57 / 23
p0 2.962 ± 288.2
6000
4000
2000
0
−2000
−4000
−6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 58.37
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 24
Mean −0.02974
Std Dev 0.9906
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

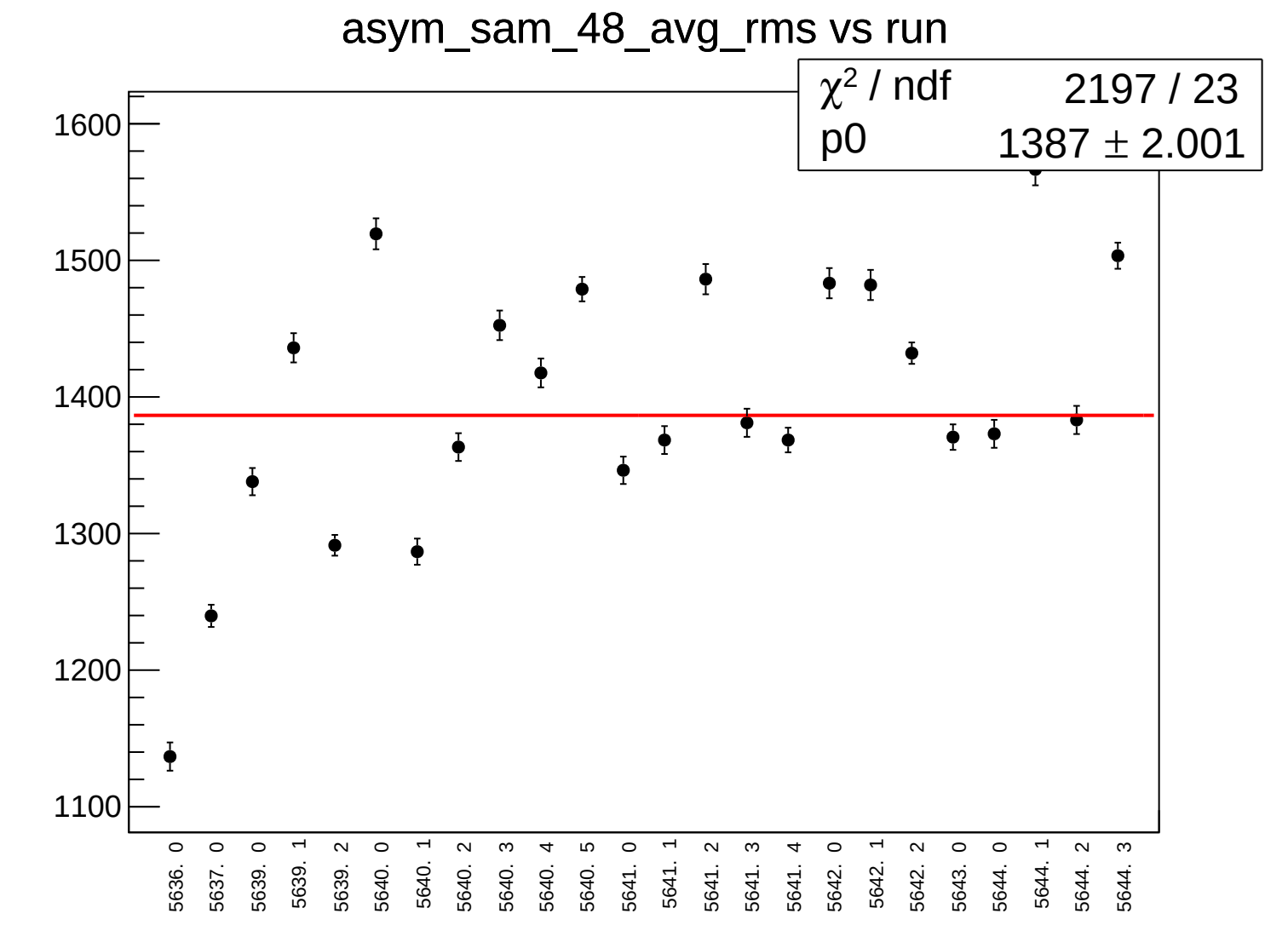

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 7773 / 23
p0 140.4 ± 0.2038
220
200
180
160
140
120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

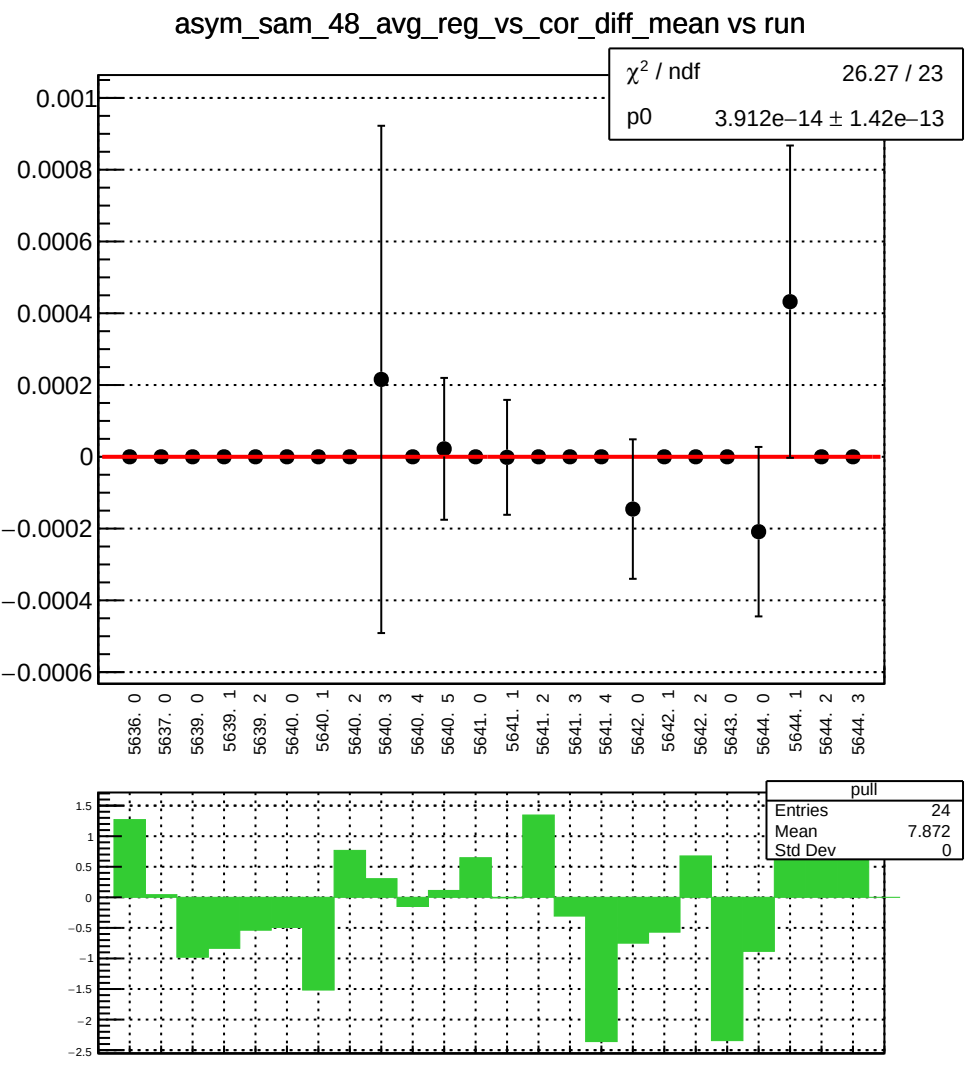

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 19.64 / 23
p0 −1558 ± 2820
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −175
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.003919
Std Dev 0.9045
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

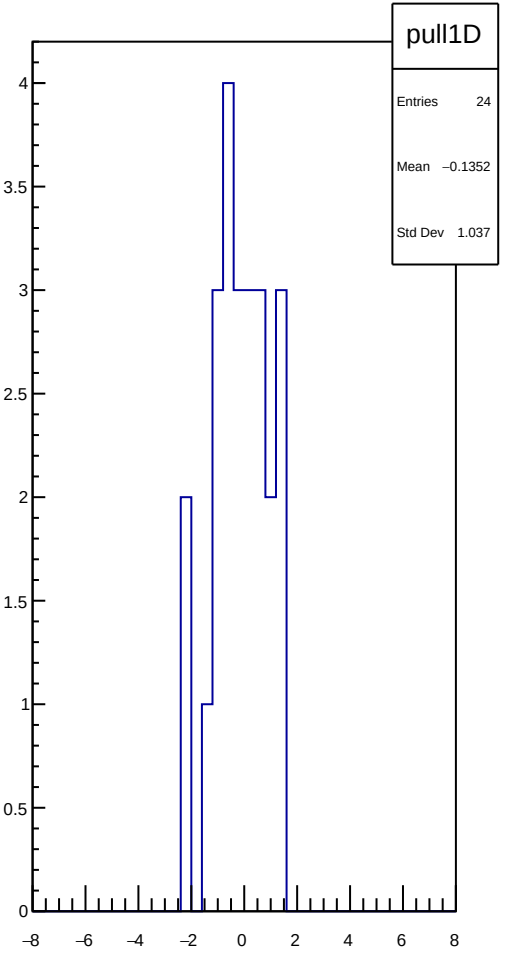

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 1547 / 23
p0 1383 ± 1.994
1550
1500
1450
1400
1350
1300
1250
1200
1150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

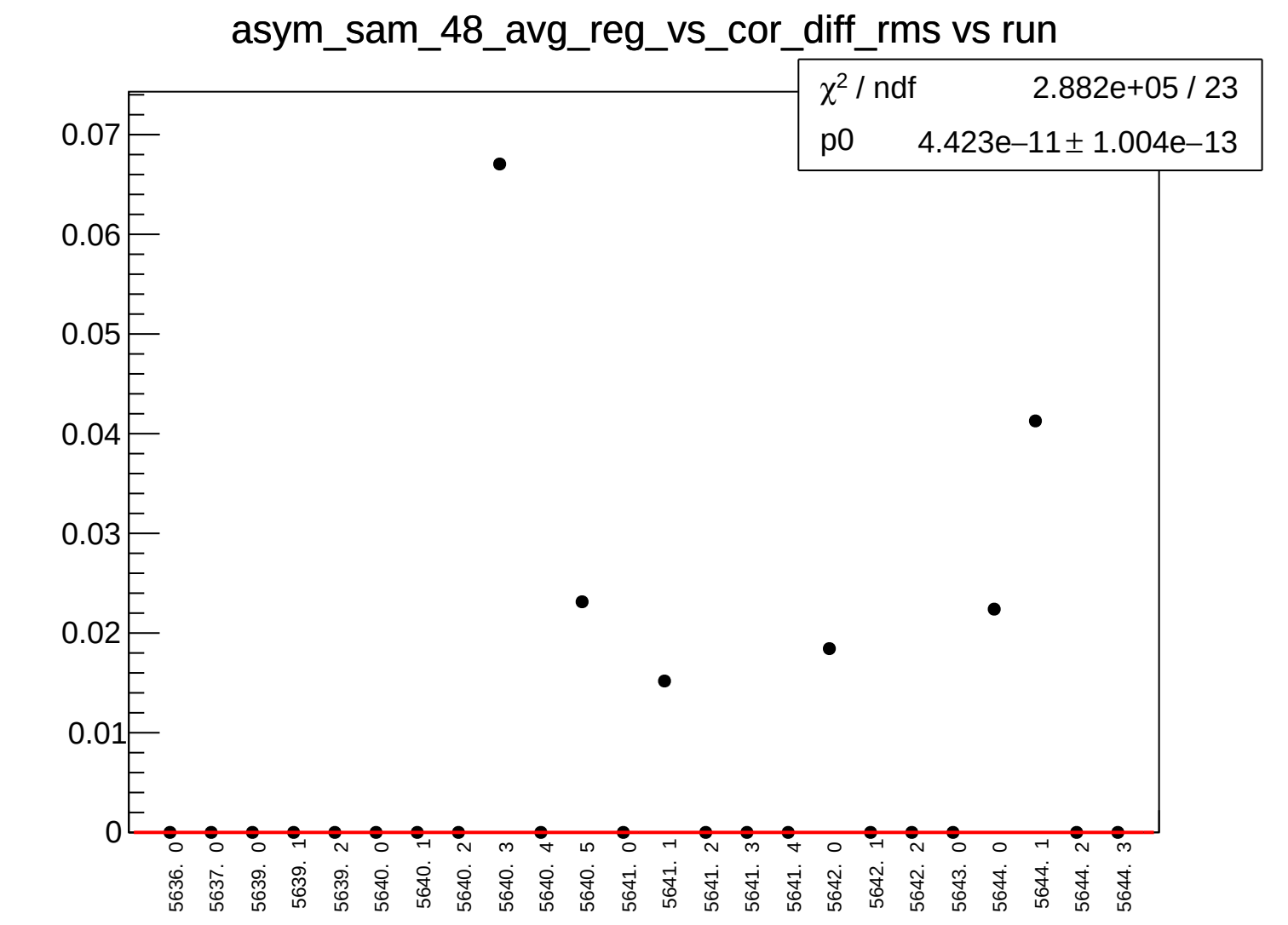

asym_sam_48_avg_mean vs run
χ² / ndf 19.07 / 23
p0 1626 ± 2830
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 793.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

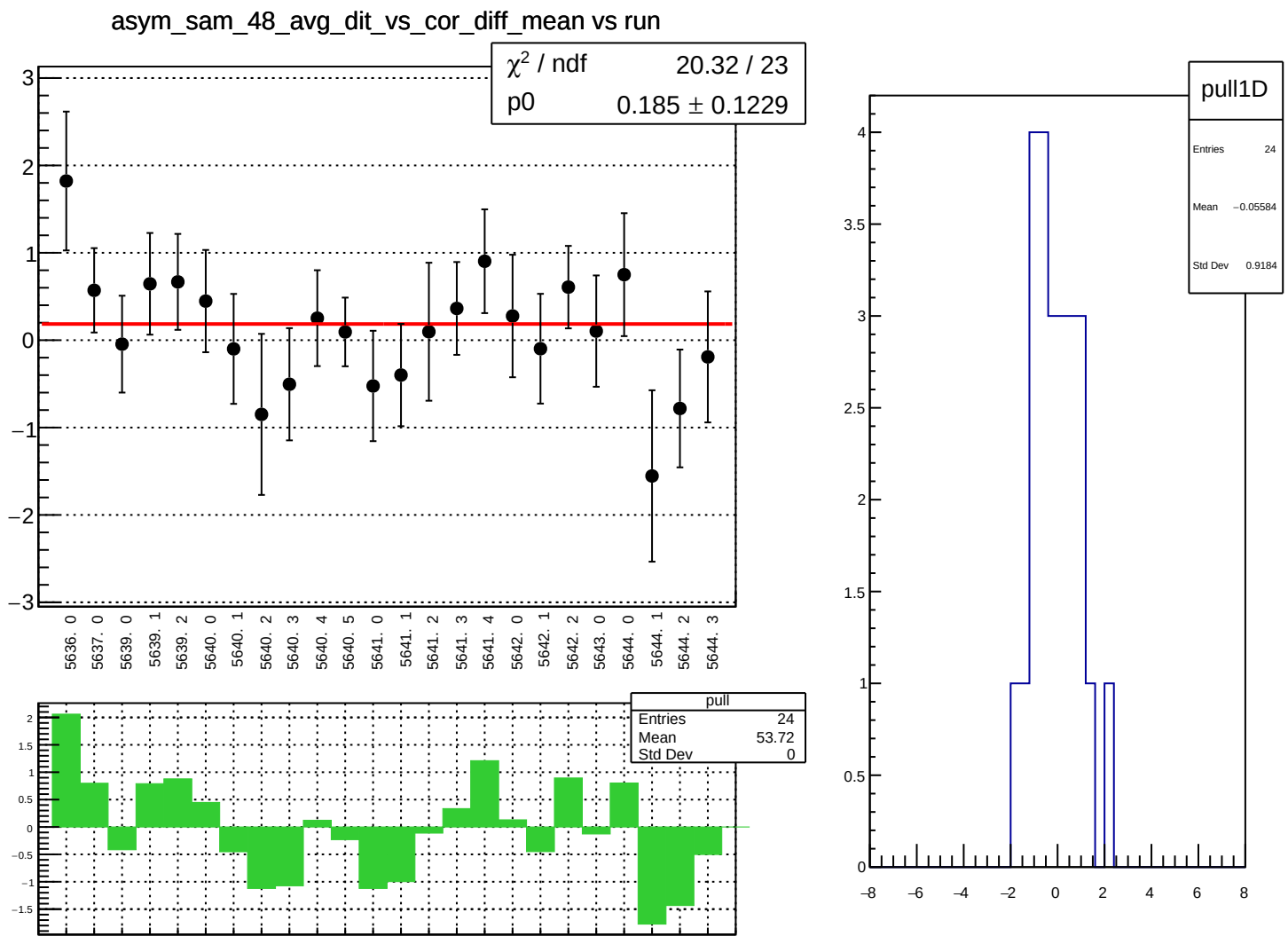

pull1D
Entries 24
Mean −0.00102
Std Dev 0.8914
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

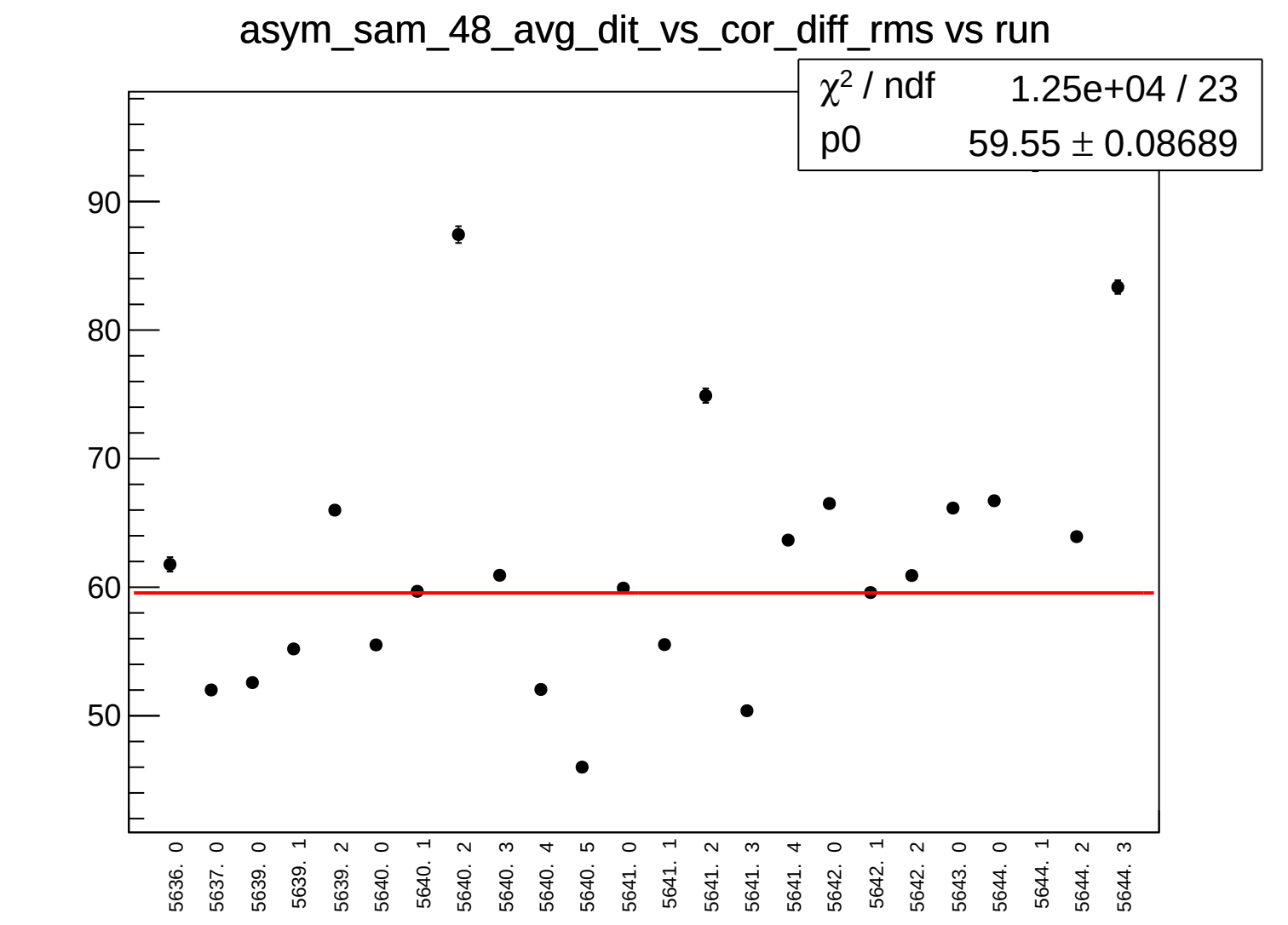

asym_sam_48_avg_rms vs run
χ² / ndf 2197 / 23
p0 1387 ± 2.001
1600
1500
1400
1300
1200
1100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

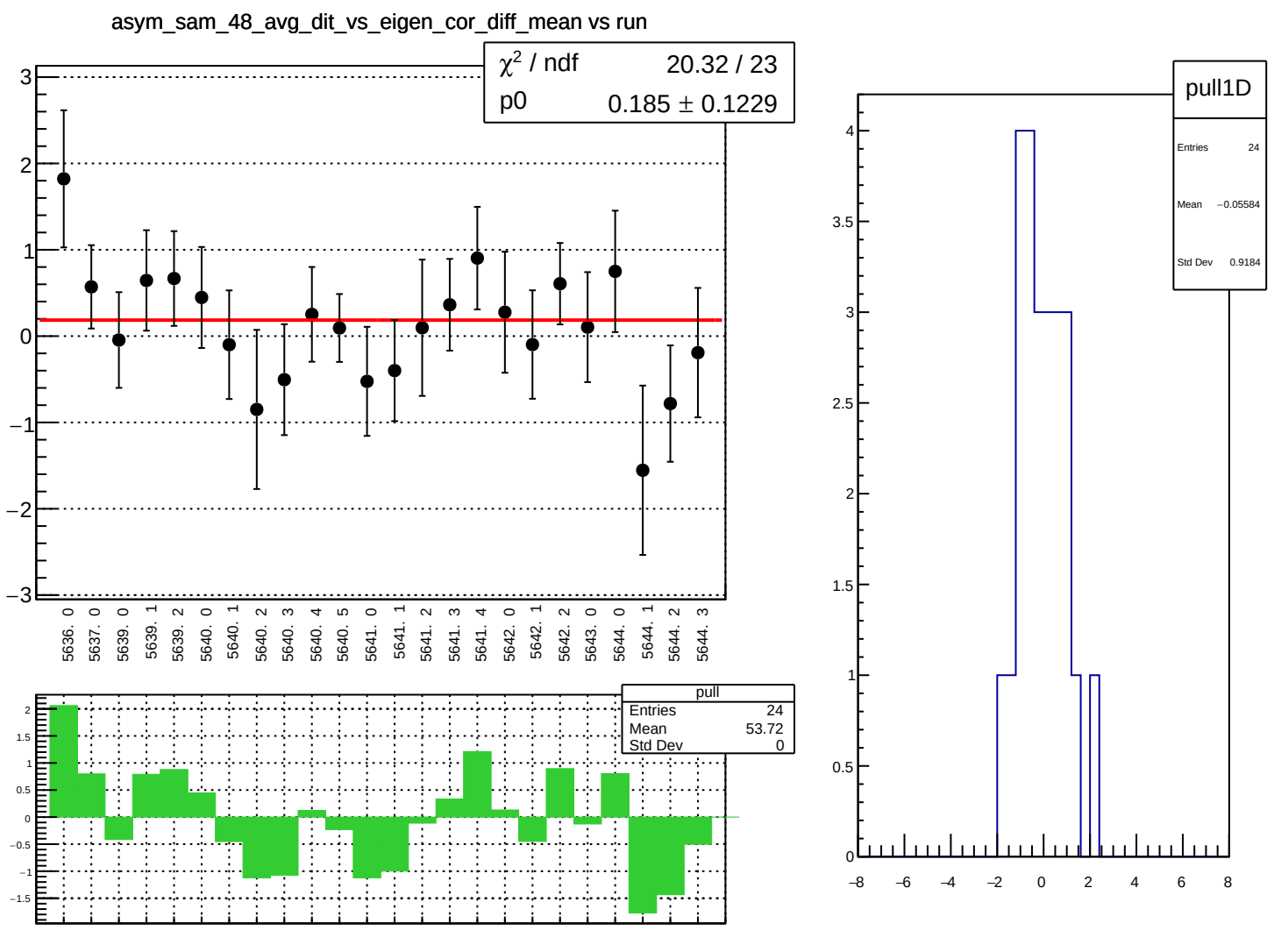

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 26.27 / 23
p0 3.912e−14 ± 1.42e−13
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 7.872
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

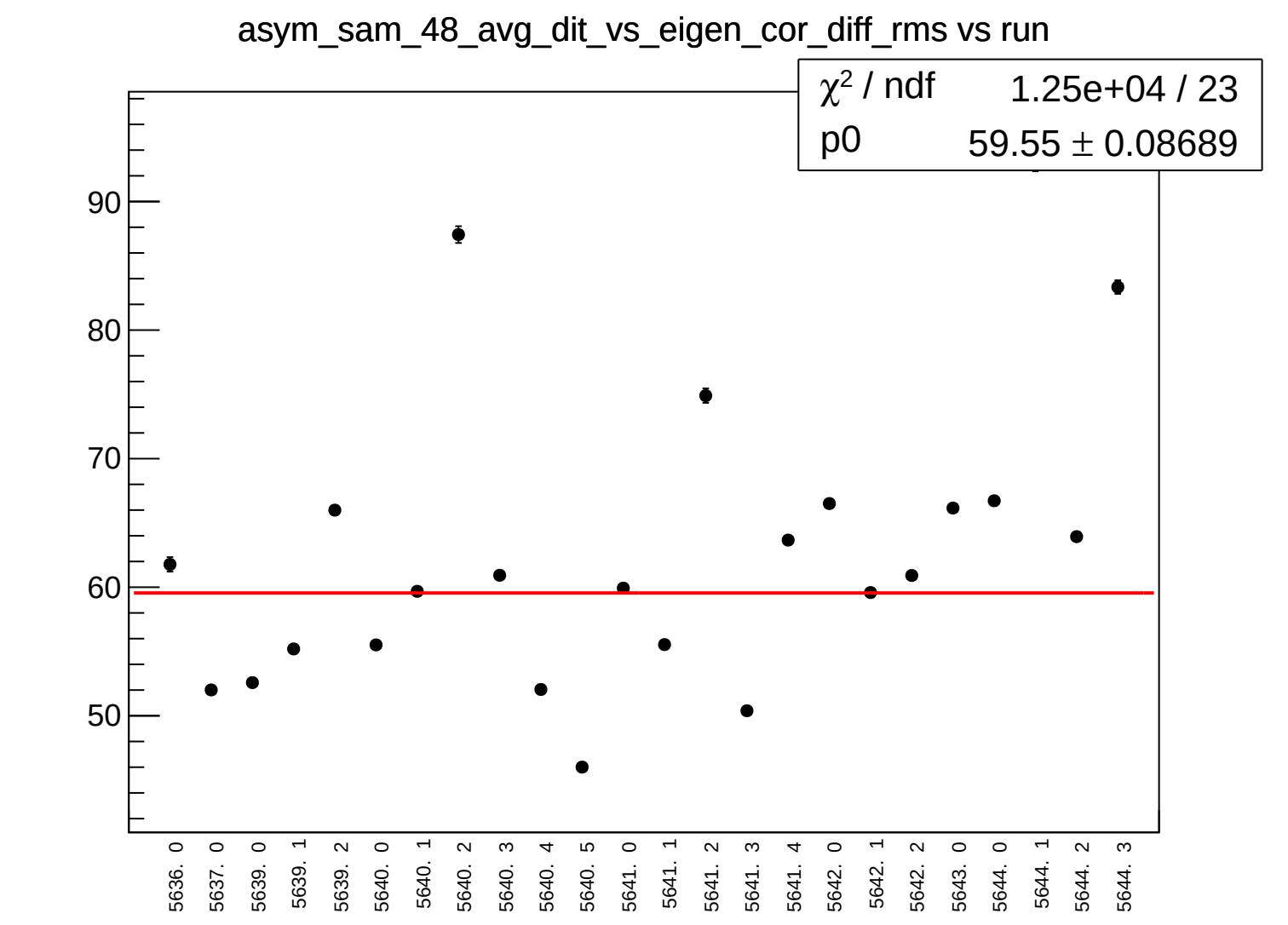

pull1D
Entries 24
Mean −0.1352
Std Dev 1.037
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

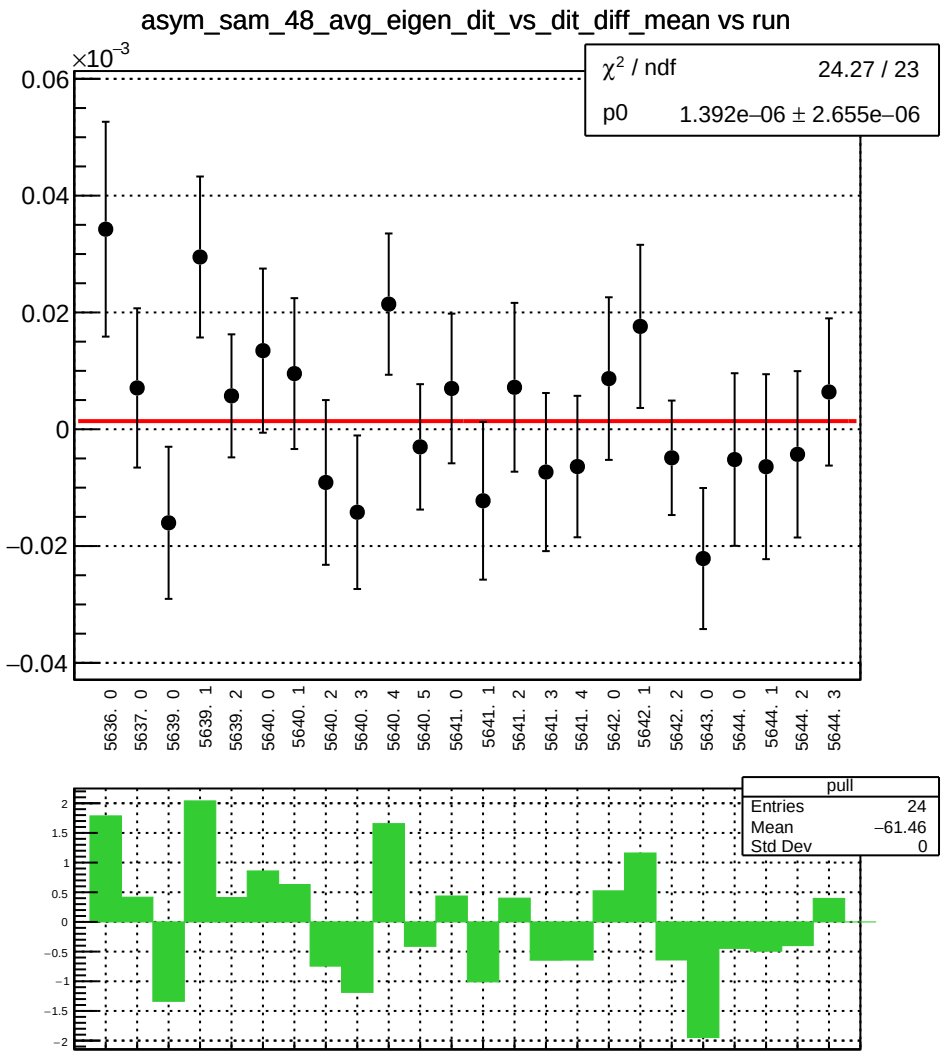

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.882e+05 / 23
p0 4.423e−11 ± 1.004e−13
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

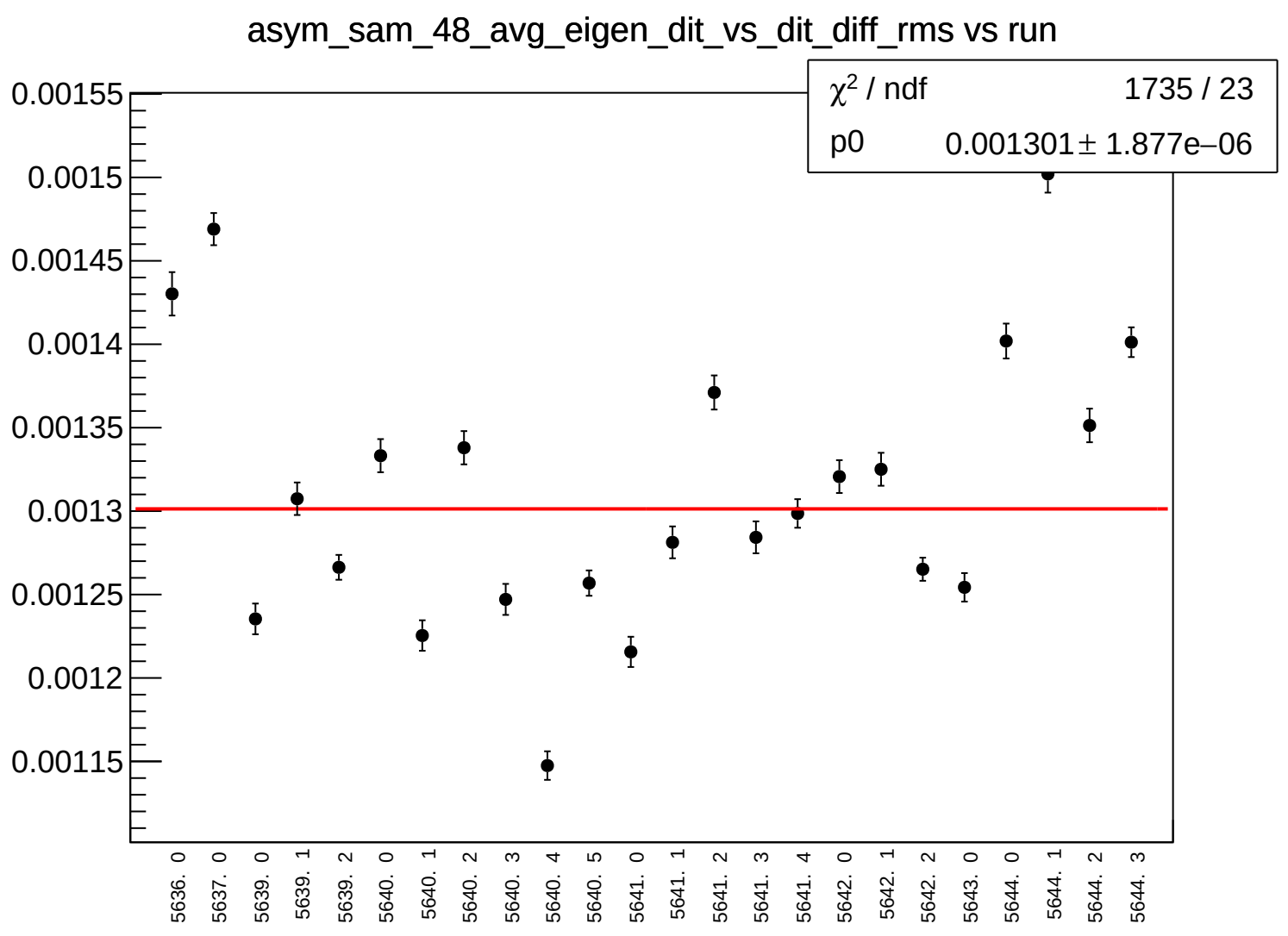

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 20.32 / 23
p0 0.185 ± 0.1229
3
2
1
0
−1
−2
−3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 53.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.05584
Std Dev 0.9184
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.25e+04 / 23
p0 59.55 ± 0.08689
90
80
70
60
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

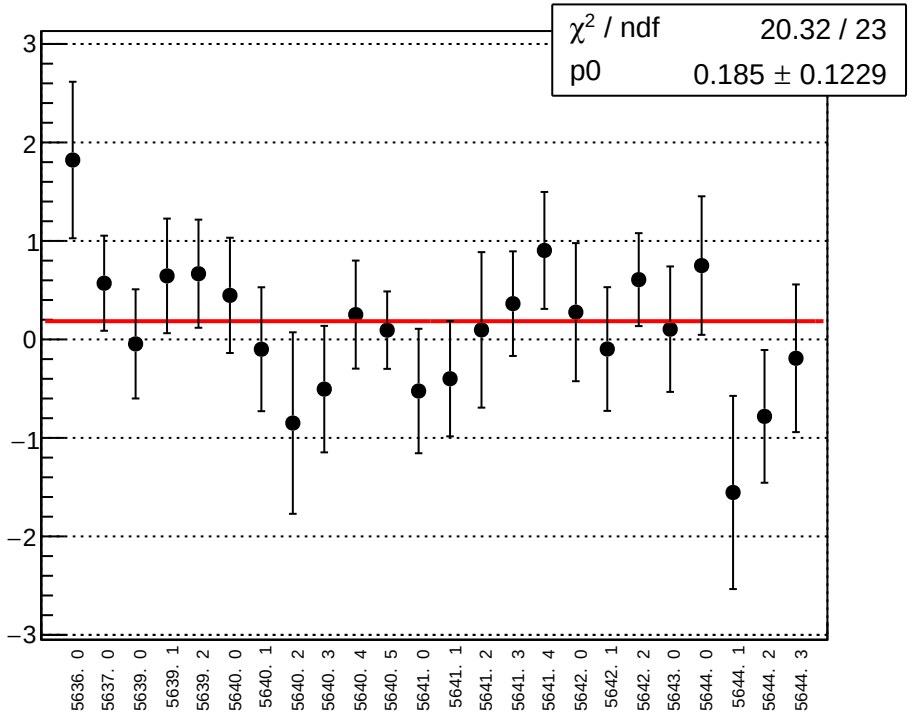

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 20.32 / 23
p0 0.185 ± 0.1229
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 53.72
Std Dev 0
pull1D
Entries 24
Mean −0.05584
Std Dev 0.9184

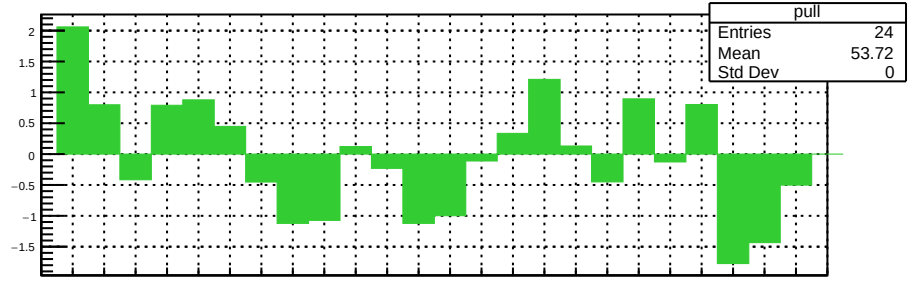

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.25e+04 / 23
p0 59.55 ± 0.08689
90
80
70
60
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

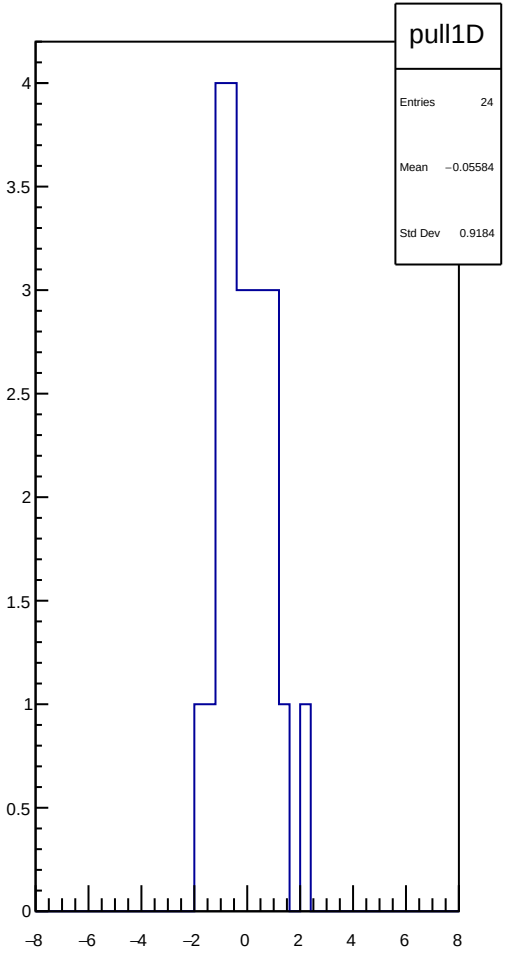

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 24.27 / 23
p0 1.392e−06 ± 2.655e−06
0.06
0.04
0.02
0
−0.02
−0.04
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −61.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.03392
Std Dev 1.005
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

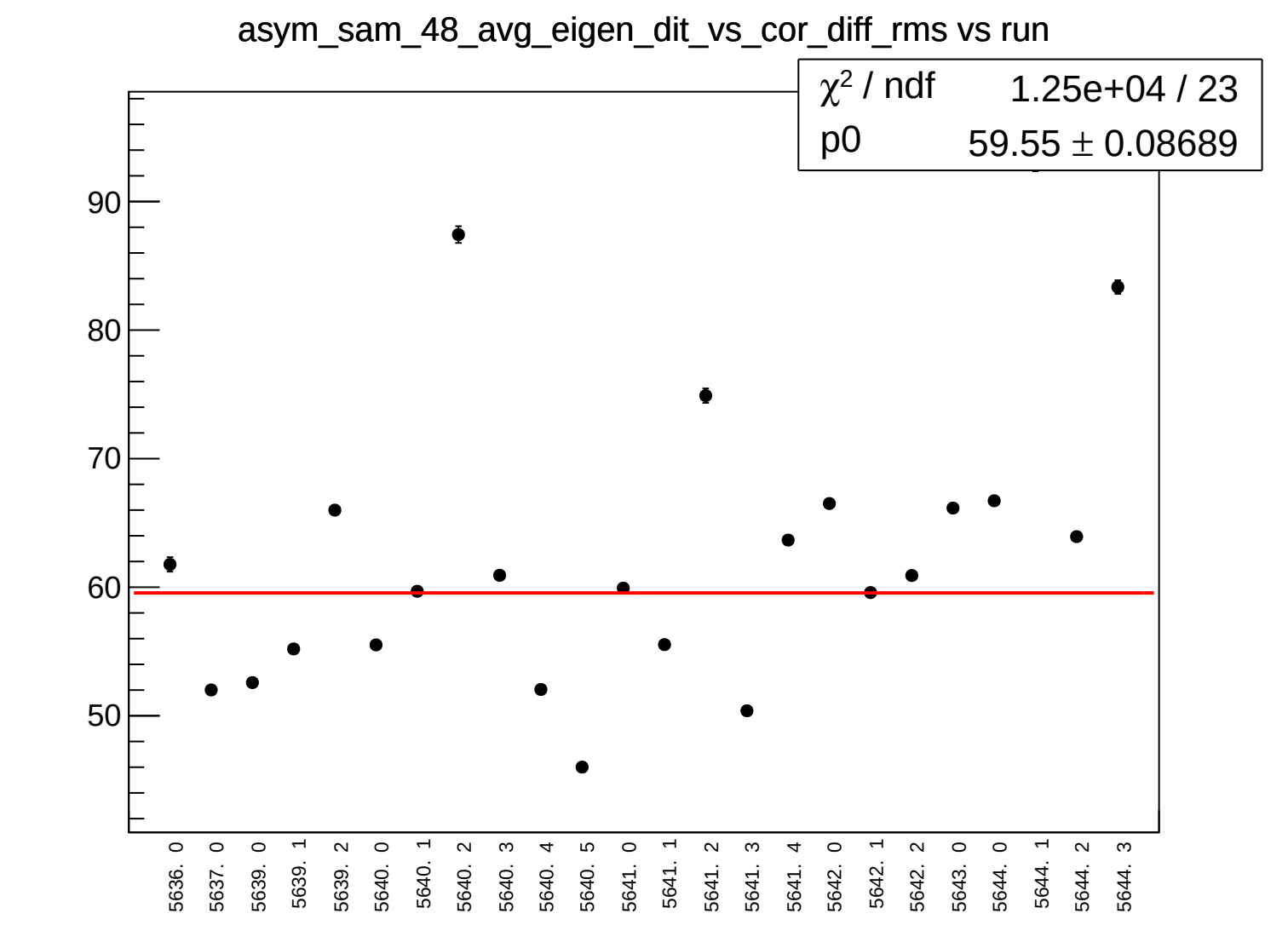

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1735 / 23
p0 0.001301 ± 1.877e−06
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125
0.0012
0.00115
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

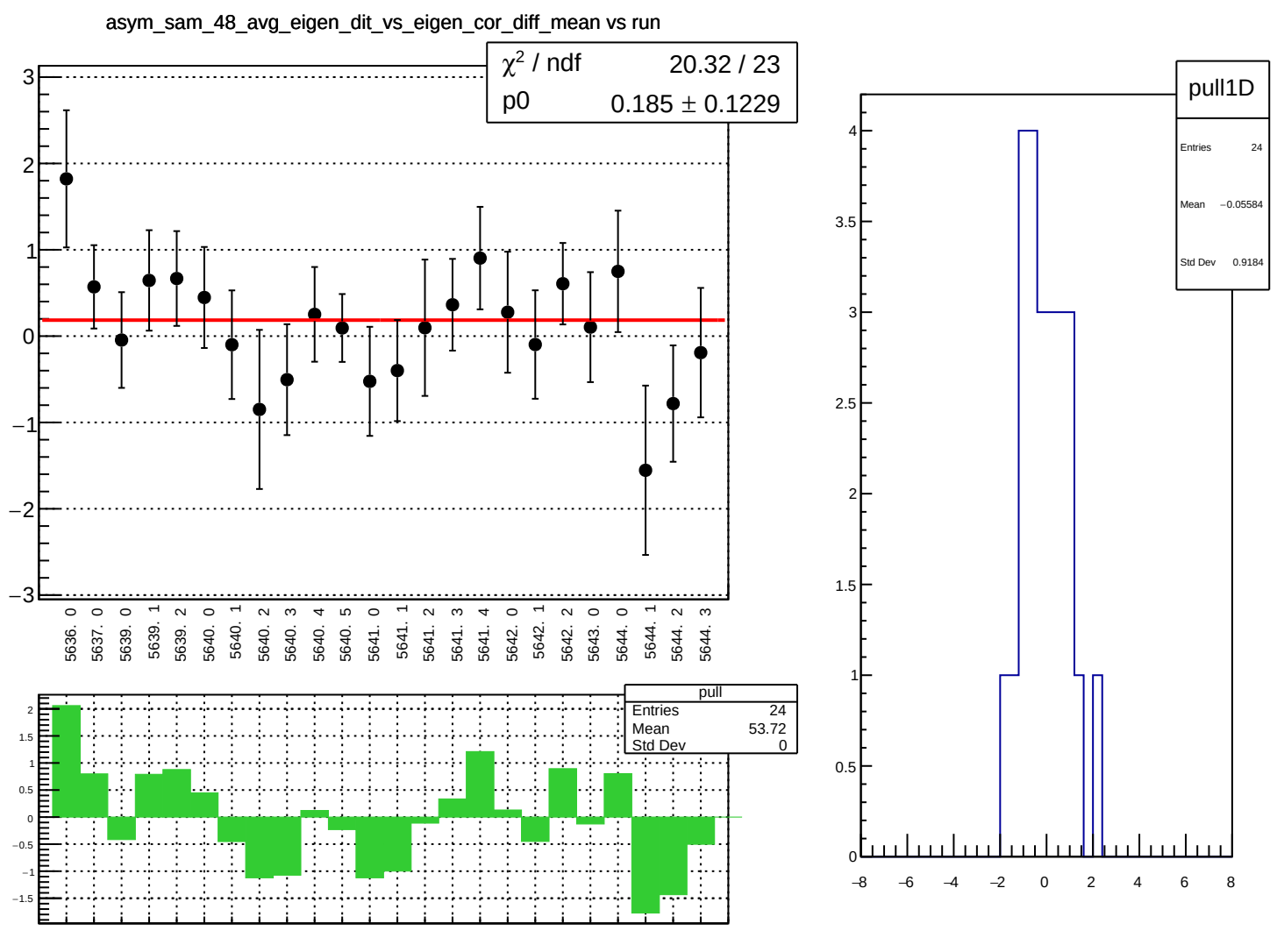
asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run

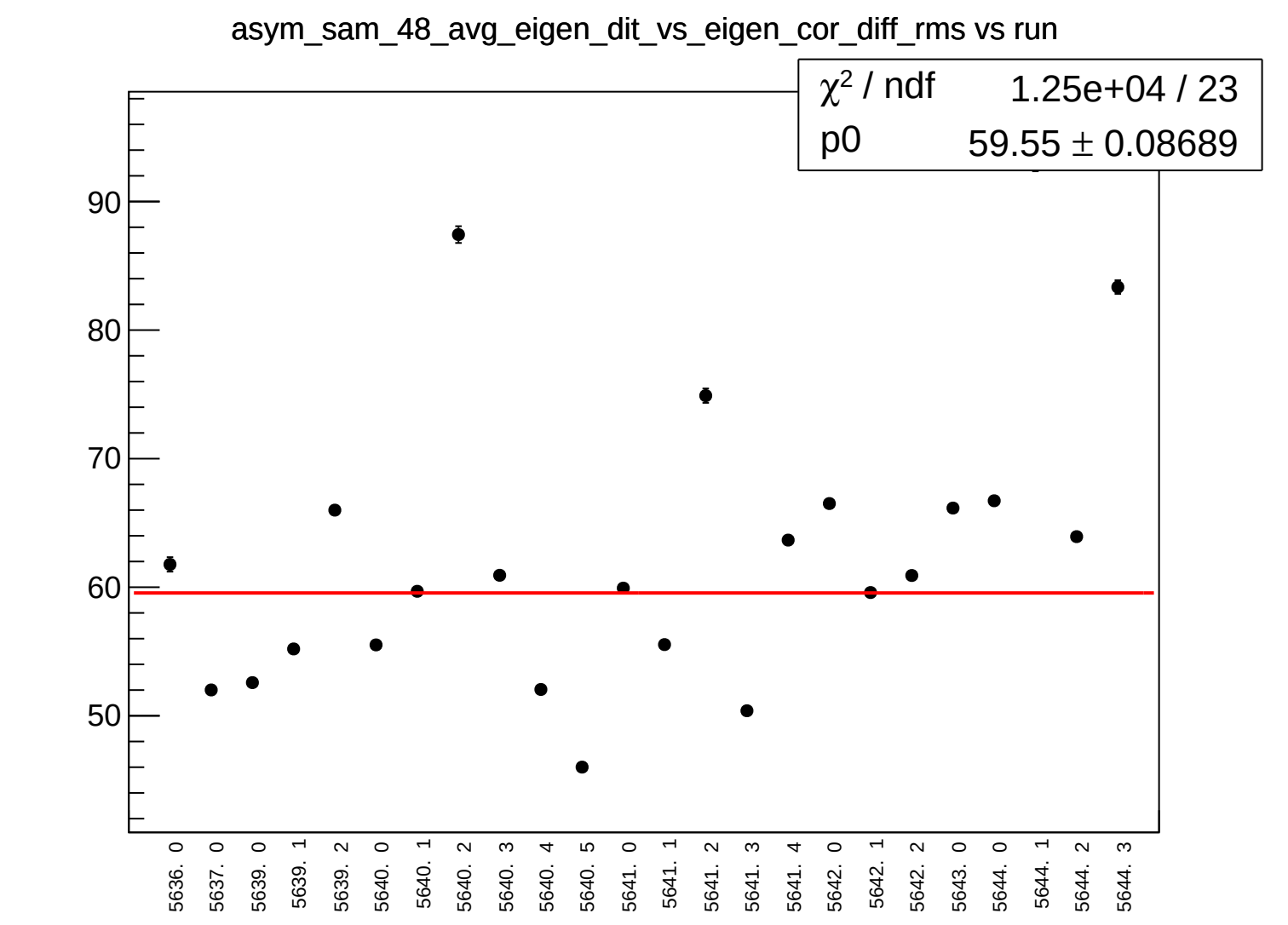


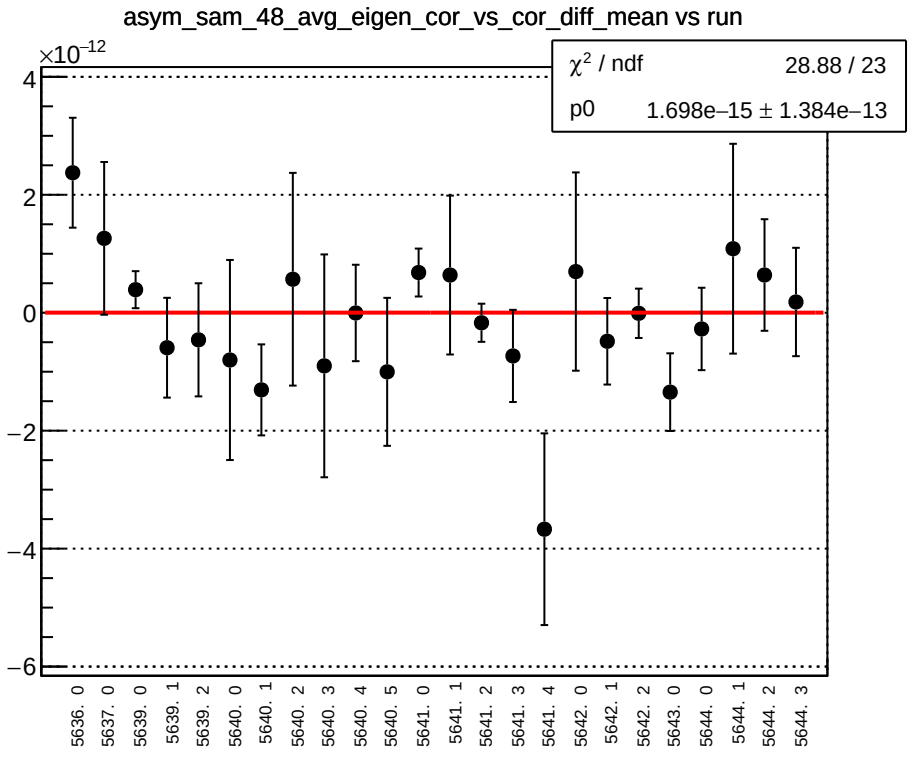


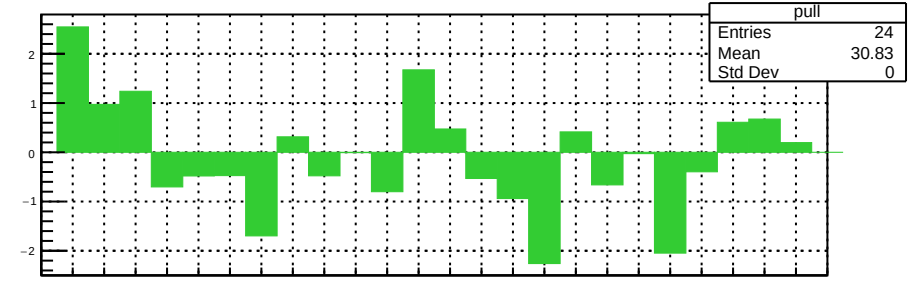


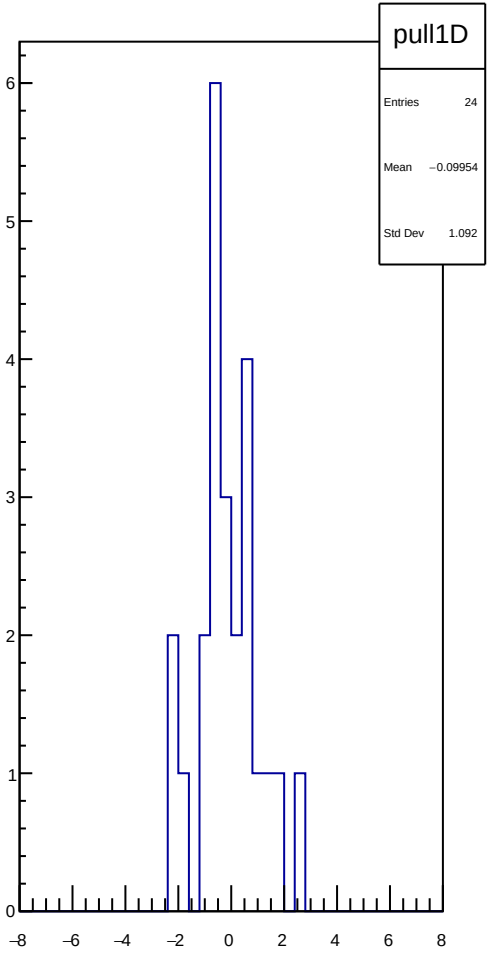

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.25e+04 / 23
p0 59.55 ± 0.08689
90
80
70
60
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

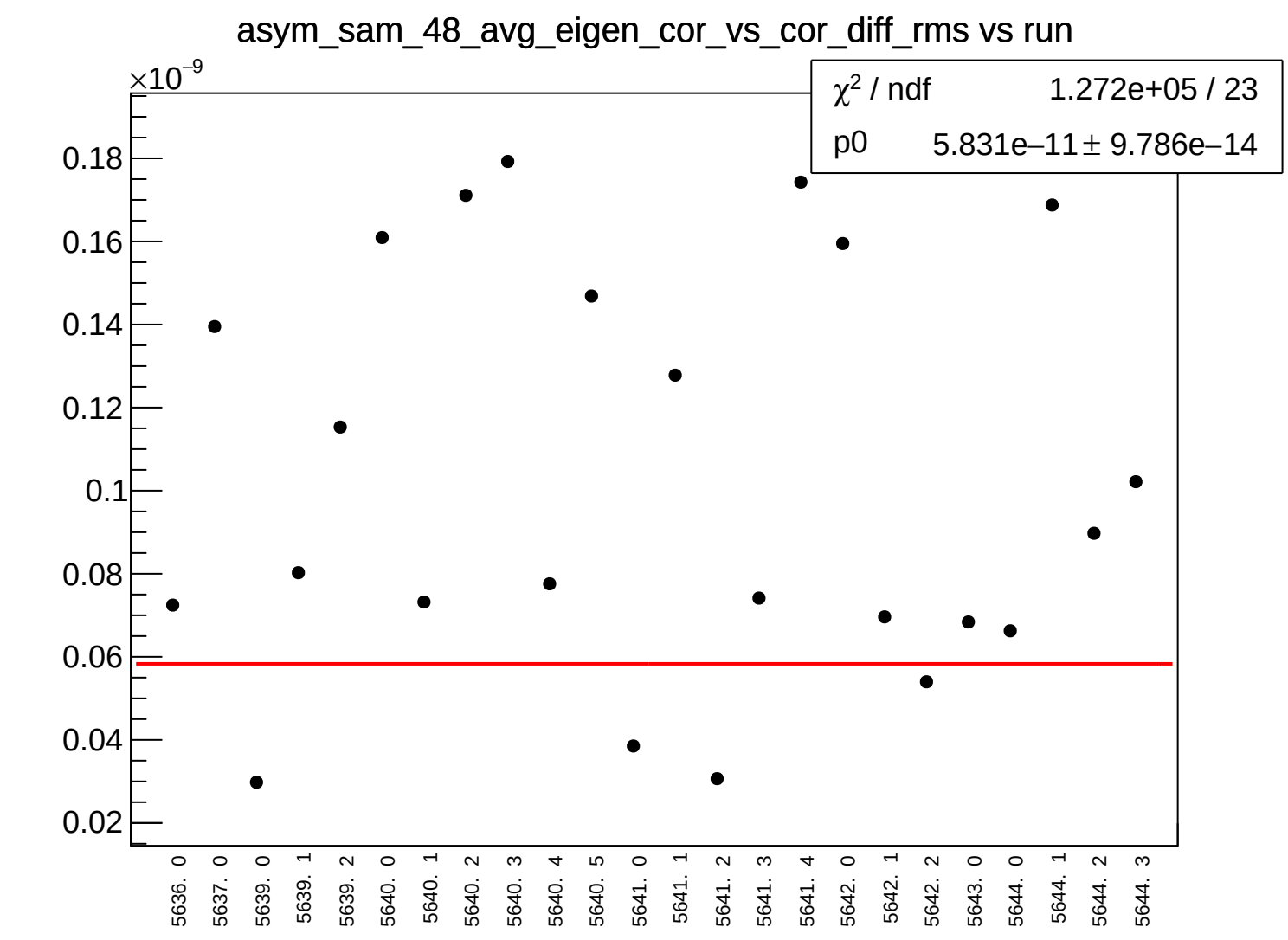

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 20.32 / 23
p0 0.185 ± 0.1229
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 53.72
Std Dev 0
pull1D
Entries 24
Mean −0.05584
Std Dev 0.9184

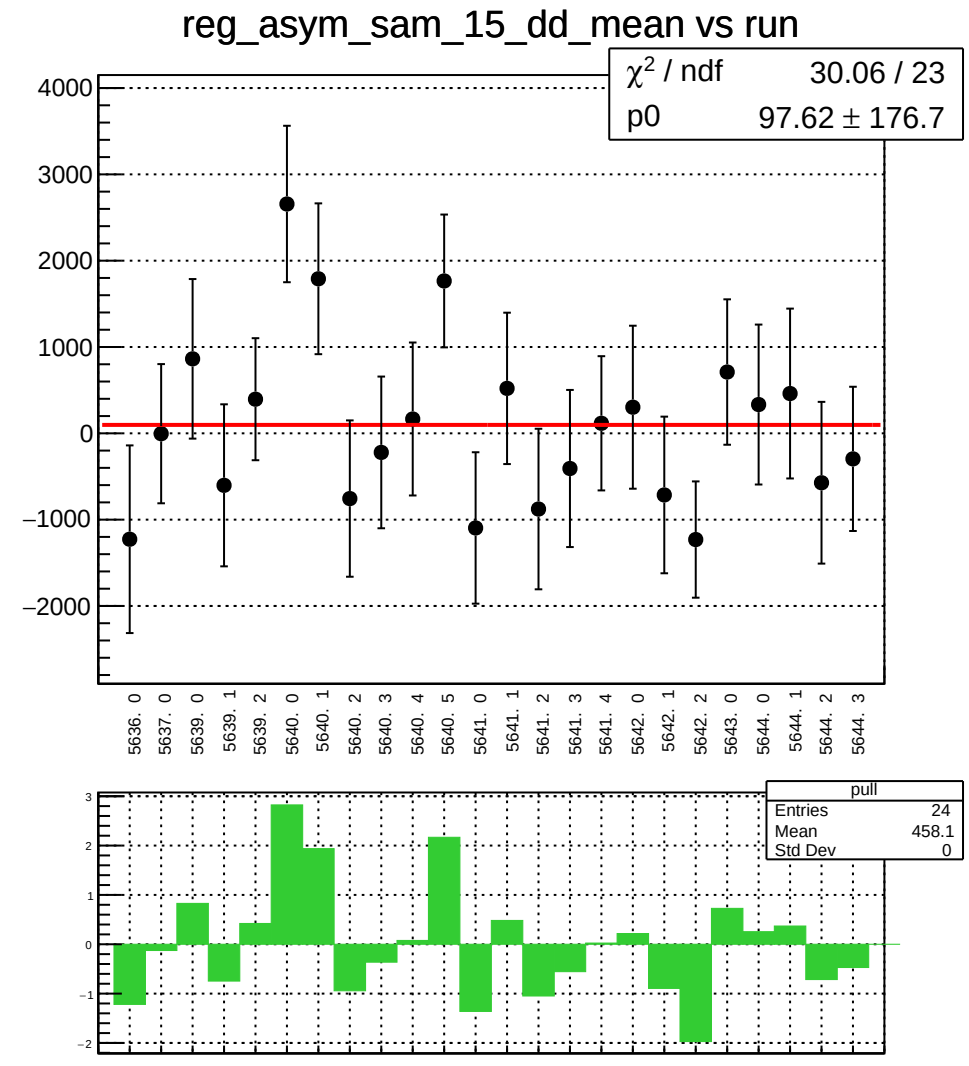

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.25e+04 / 23
p0 59.55 ± 0.08689
90
80
70
60
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

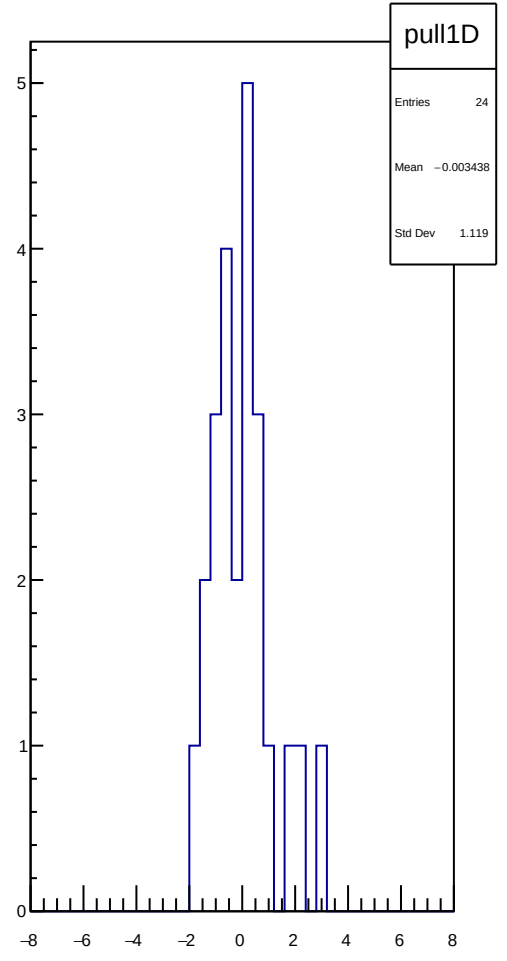

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 28.88 / 23
p0 1.698e−15 ± 1.384e−13
4
2
0
−2
−4
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

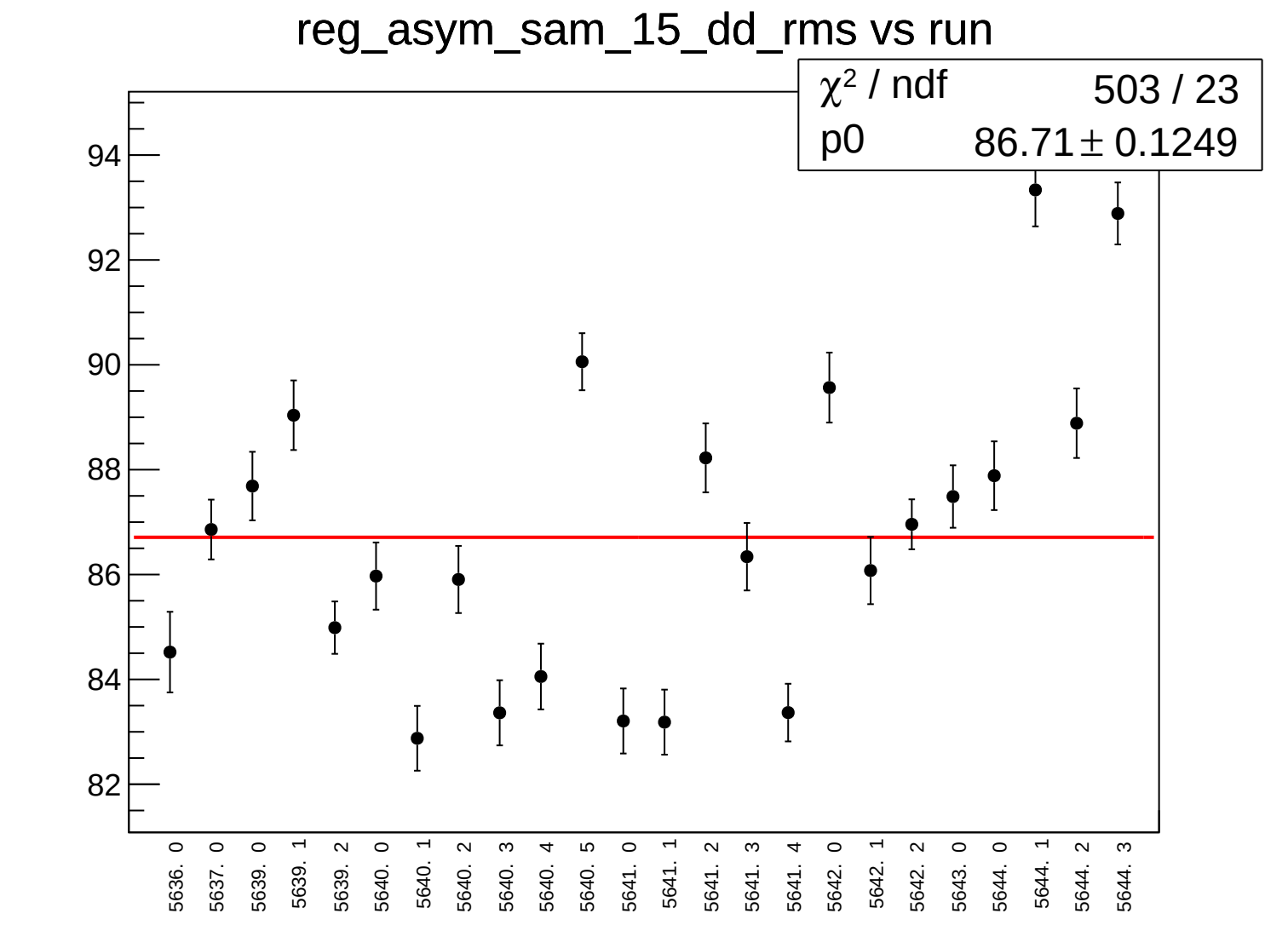

pull
Entries 24
Mean 30.83
Std Dev 0
2
1
0
−1
−2

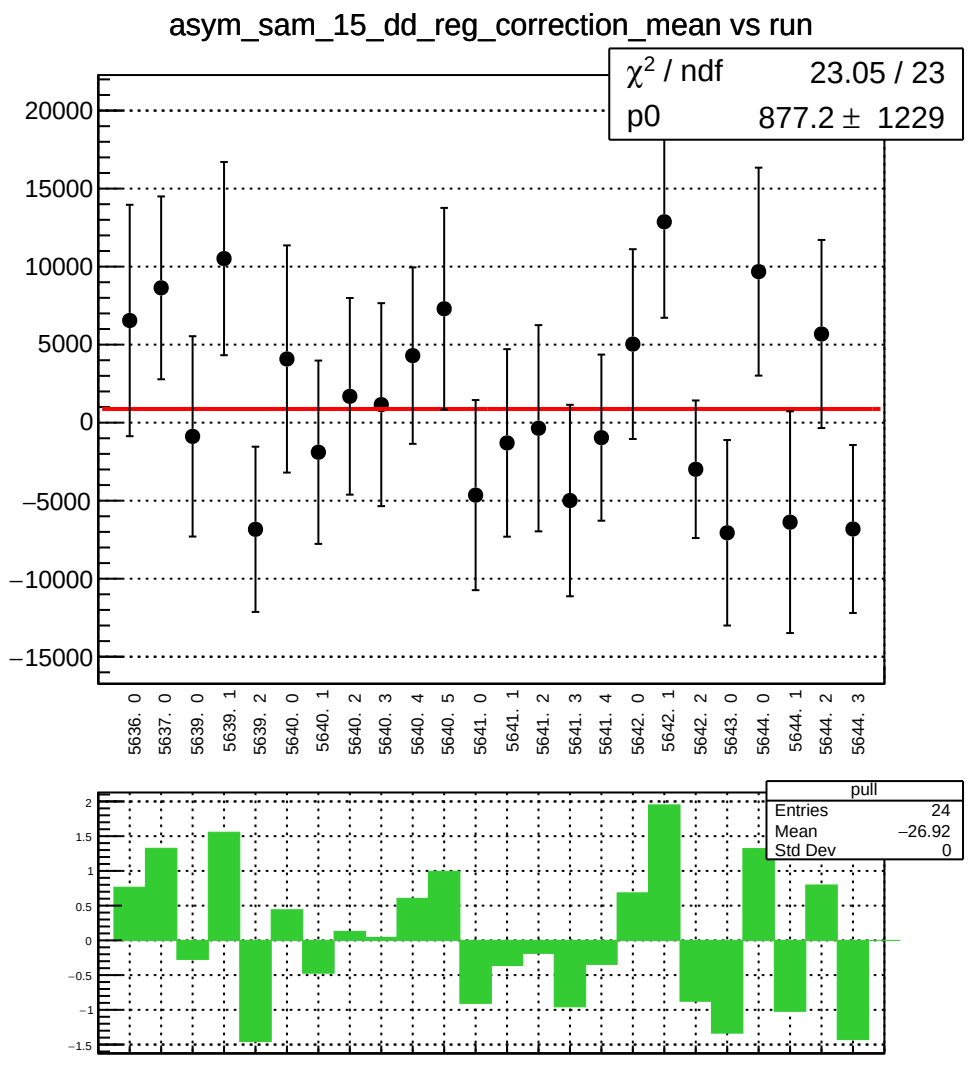

pull1D
Entries 24
Mean −0.09954
Std Dev 1.092
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

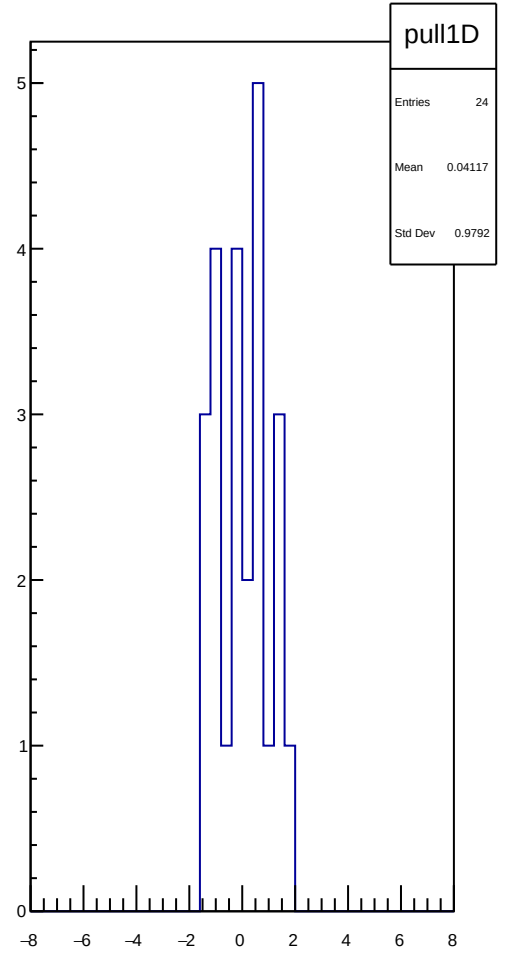

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.272e+05 / 23
p0 5.831e−11 ± 9.786e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

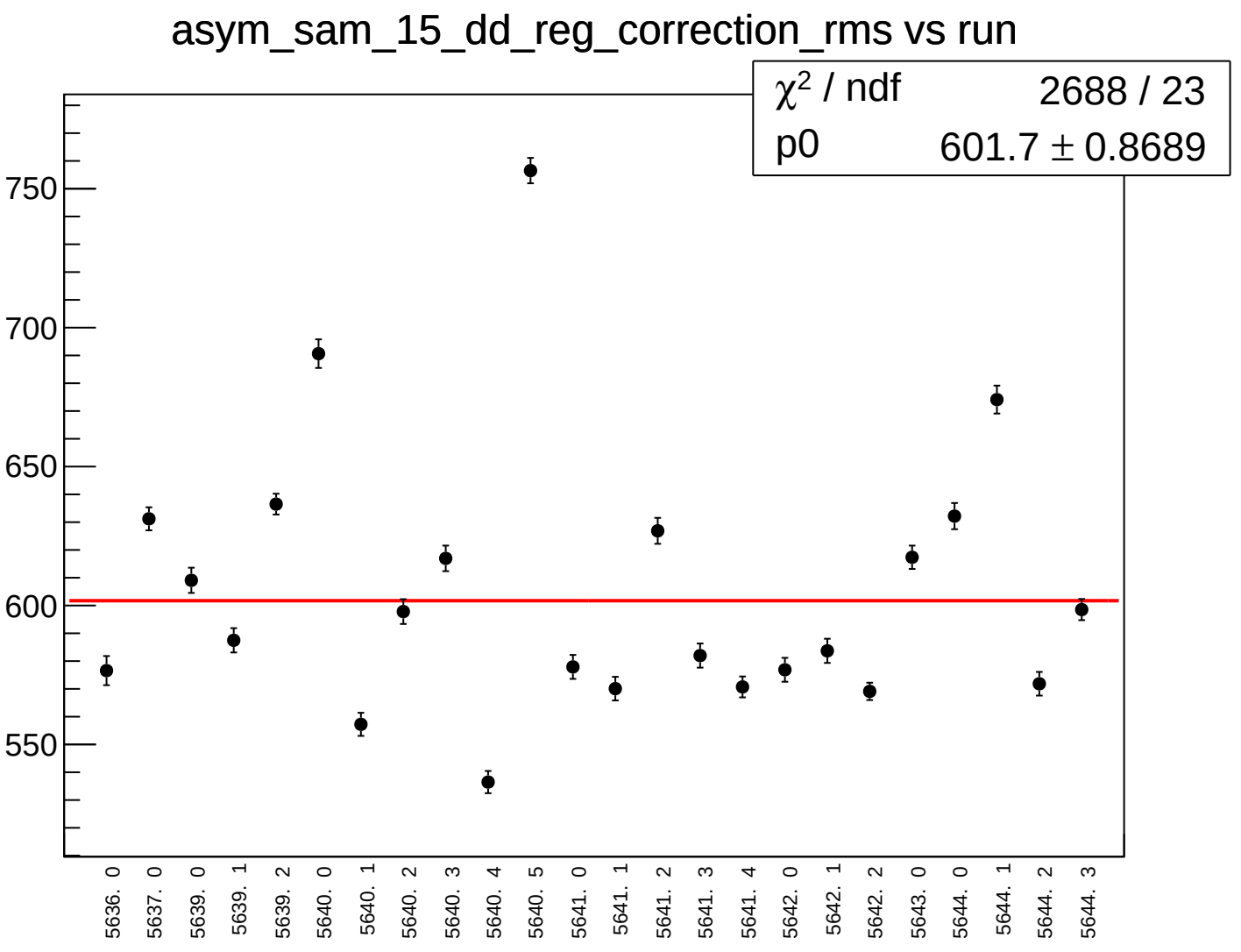

reg_asym_sam_15_dd_mean vs run
χ² / ndf 30.06 / 23
p0 97.62 ± 176.7
4000
3000
2000
1000
0
−1000
−2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 458.1
Std Dev 0
3
2
1
0
−1
−2

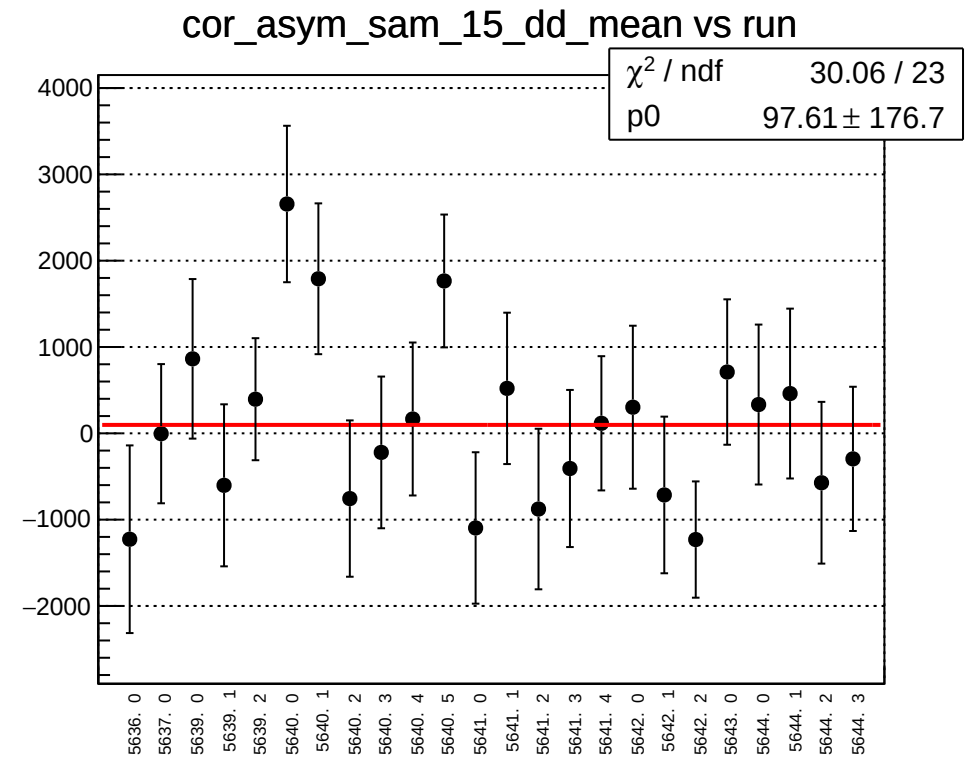

pull1D
Entries 24
Mean −0.003438
Std Dev 1.119
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

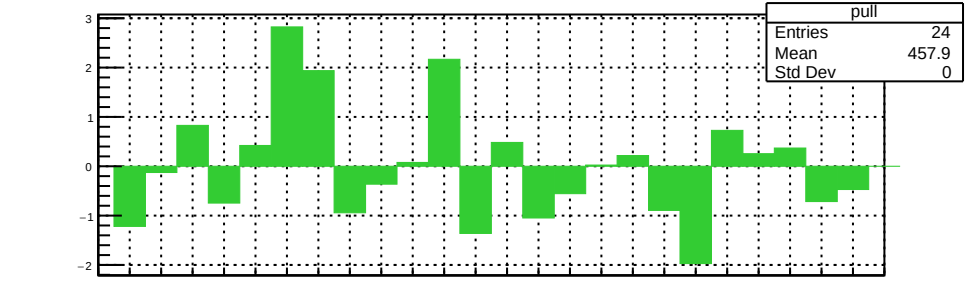

reg_asym_sam_15_dd_rms vs run
χ² / ndf 503 / 23
p0 86.71 ± 0.1249
94
92
90
88
86
84
82
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

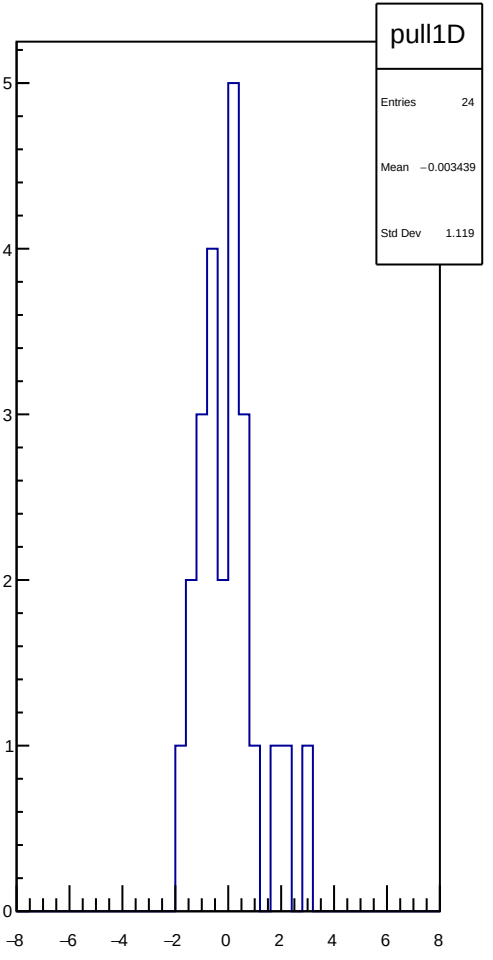

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 23.05 / 23
p0 877.2 ± 1229
20000
15000
10000
5000
0
−5000
−10000
−15000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −26.92
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

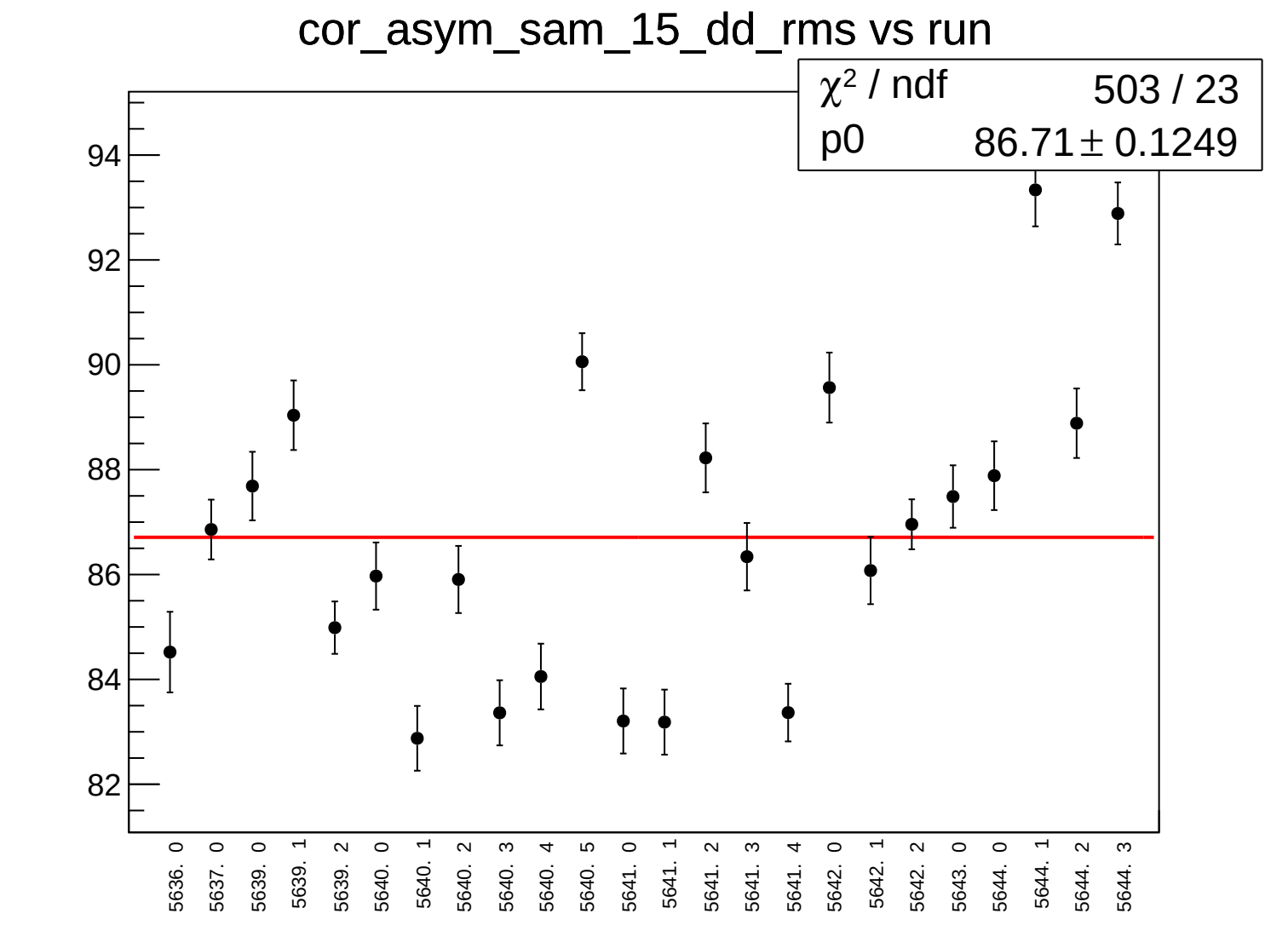

pull1D
Entries 24
Mean 0.04117
Std Dev 0.9792
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 2688 / 23
p0 601.7 ± 0.8689
750
700
650
600
550
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


cor_asym_sam_15_dd_mean vs run
χ² / ndf 30.06 / 23
p0 97.61 ± 176.7
4000
3000
2000
1000
0
−1000
−2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


pull
Entries 24
Mean 457.9
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 24
Mean −0.003439
Std Dev 1.119
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_15_dd_rms vs run
χ² / ndf 503 / 23
p0 86.71 ± 0.1249
94
92
90
88
86
84
82
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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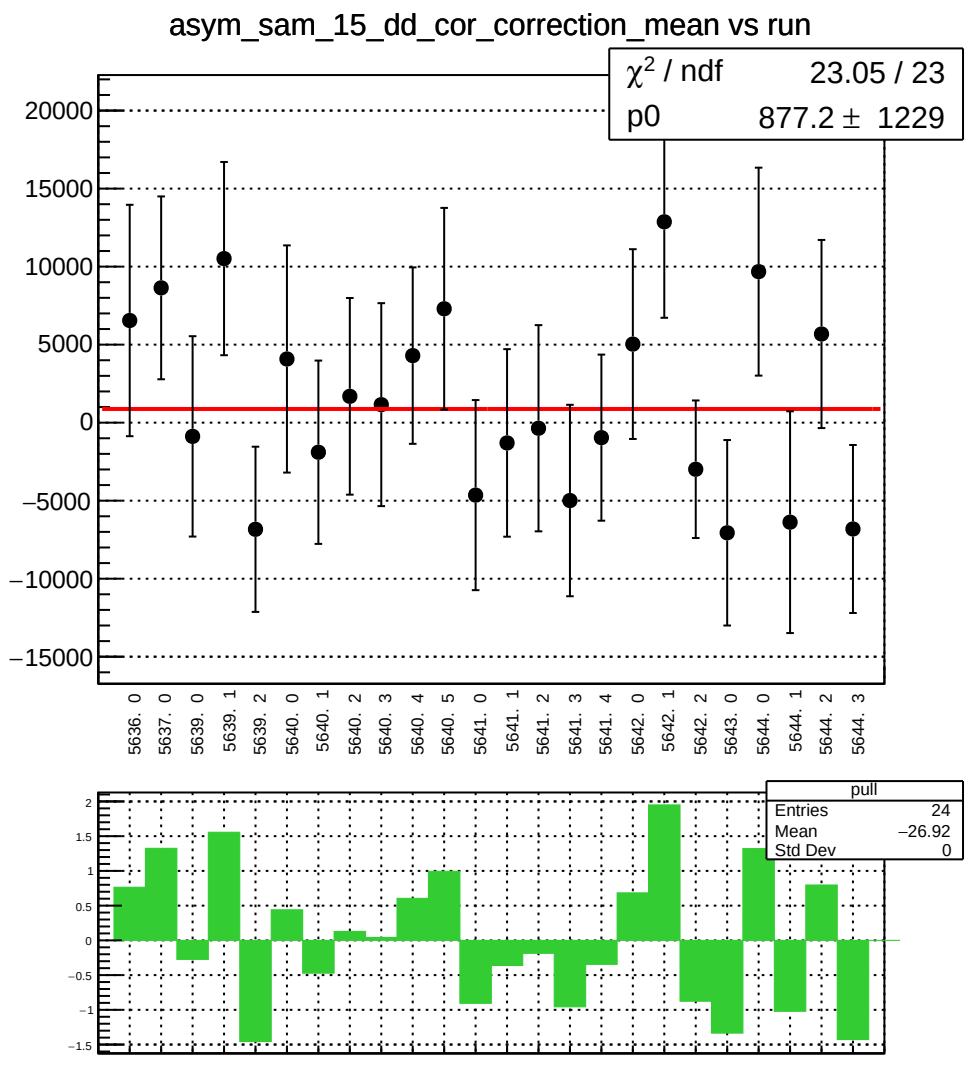
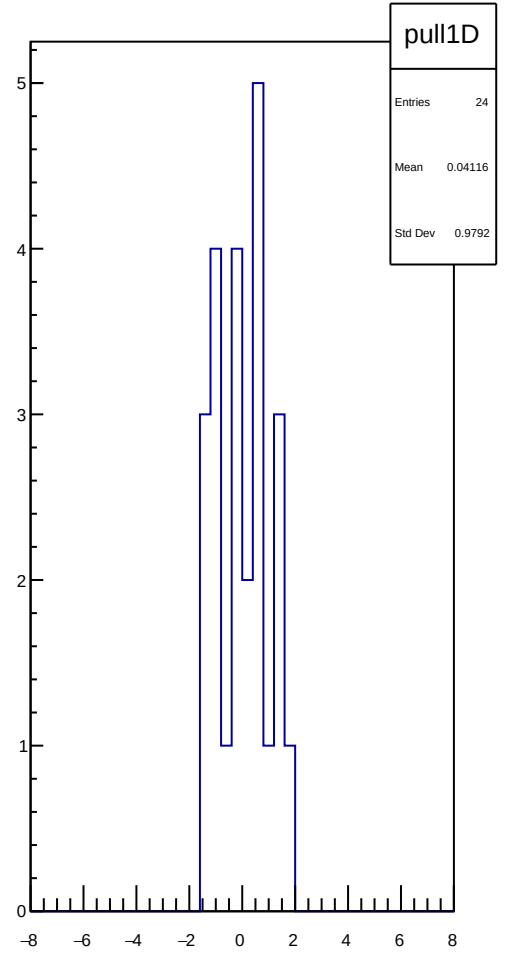
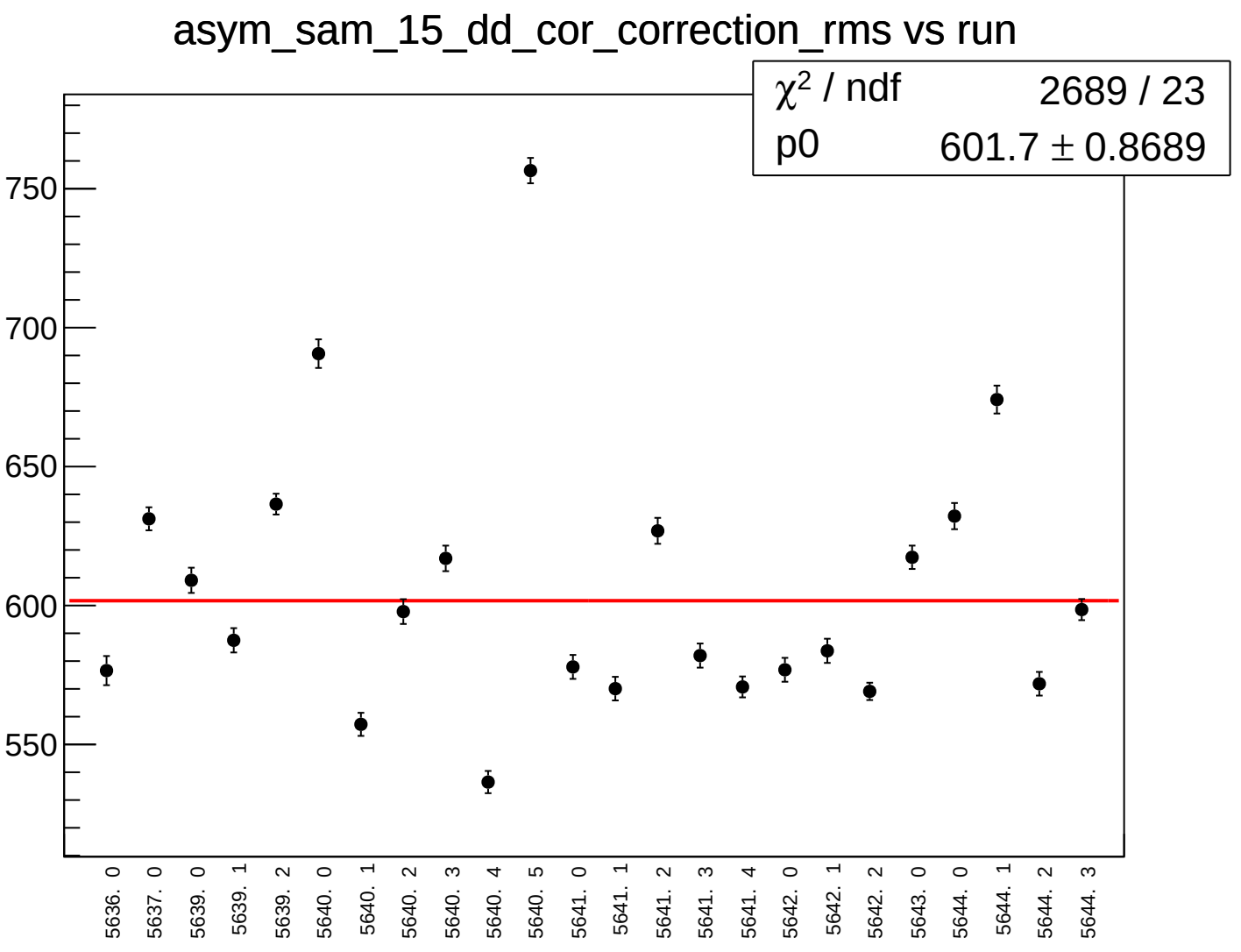
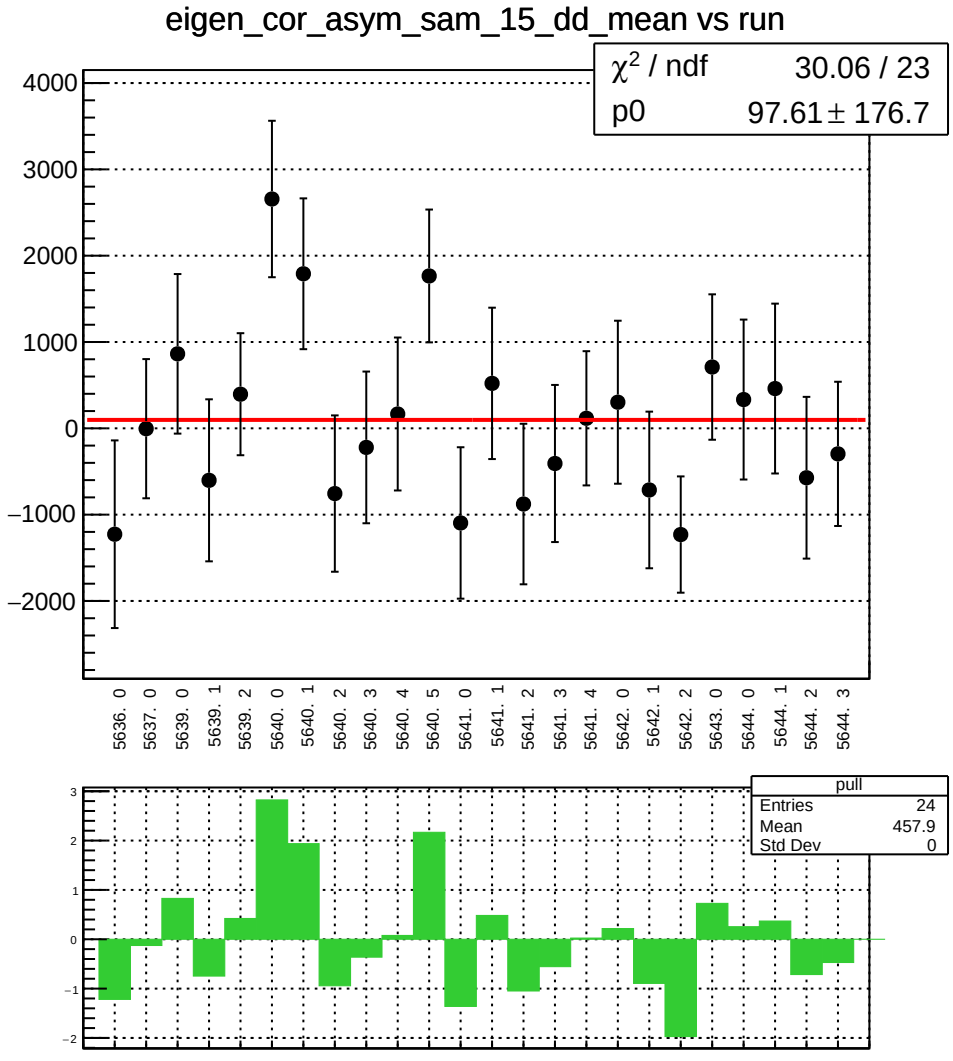
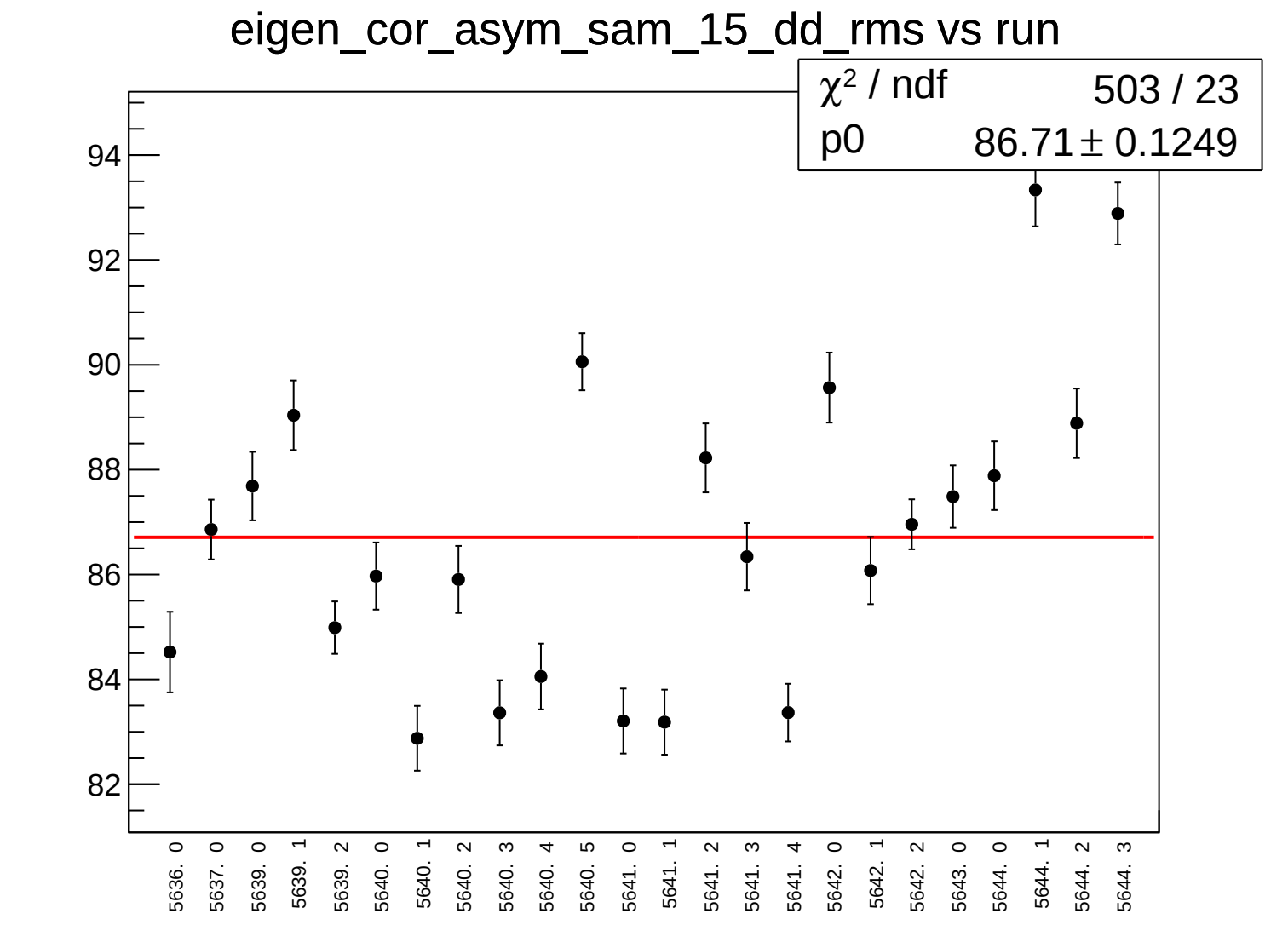
5644. 2
5644. 3

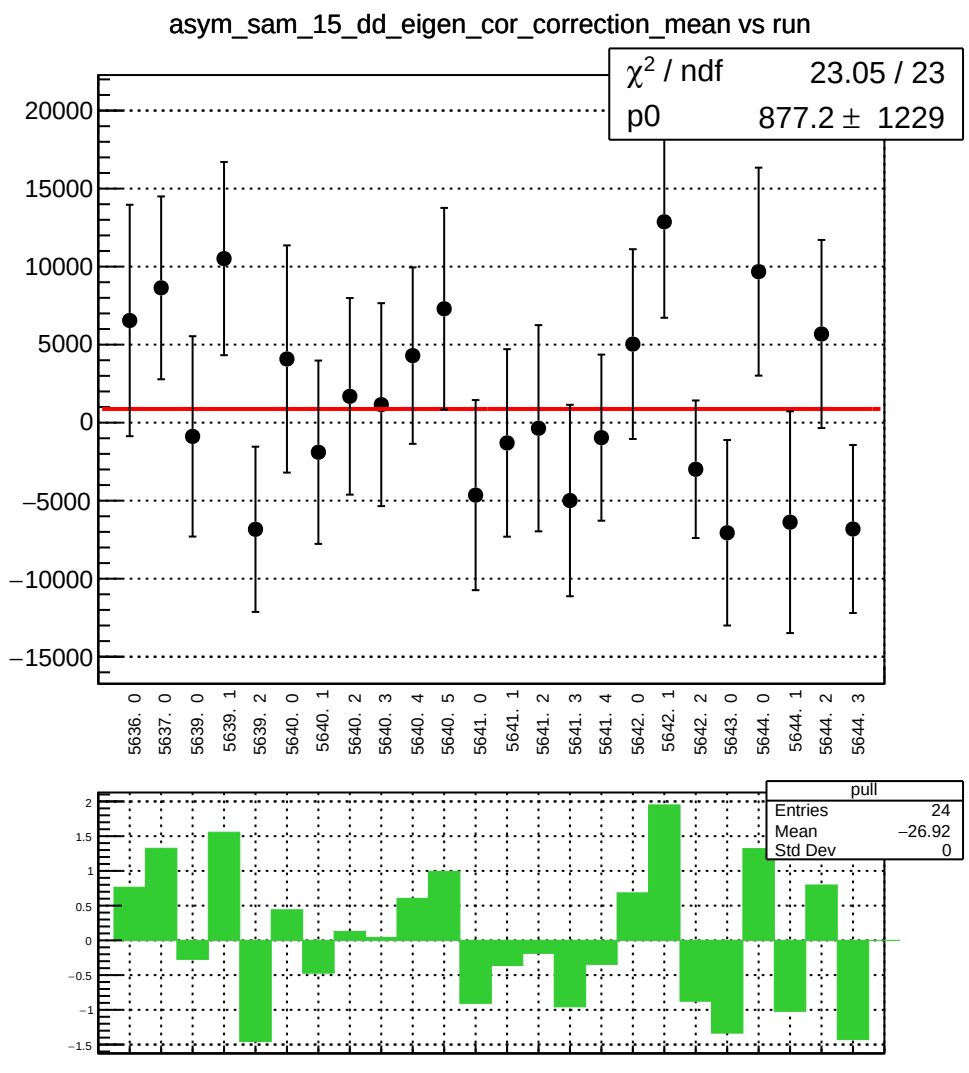

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 23.05 / 23
p0 877.2 ± 1229
20000
15000
10000
5000
0
−5000
−10000
−15000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −26.92
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

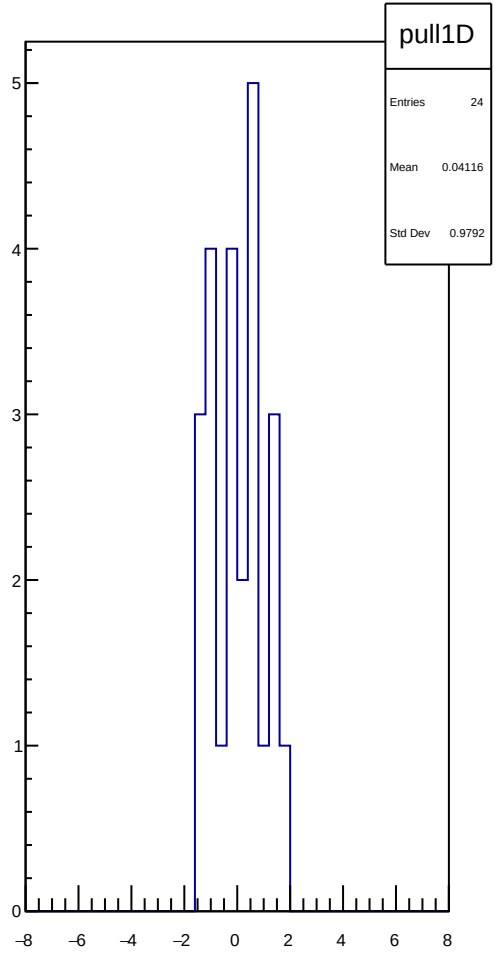

pull1D
Entries 24
Mean 0.04116
Std Dev 0.9792
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

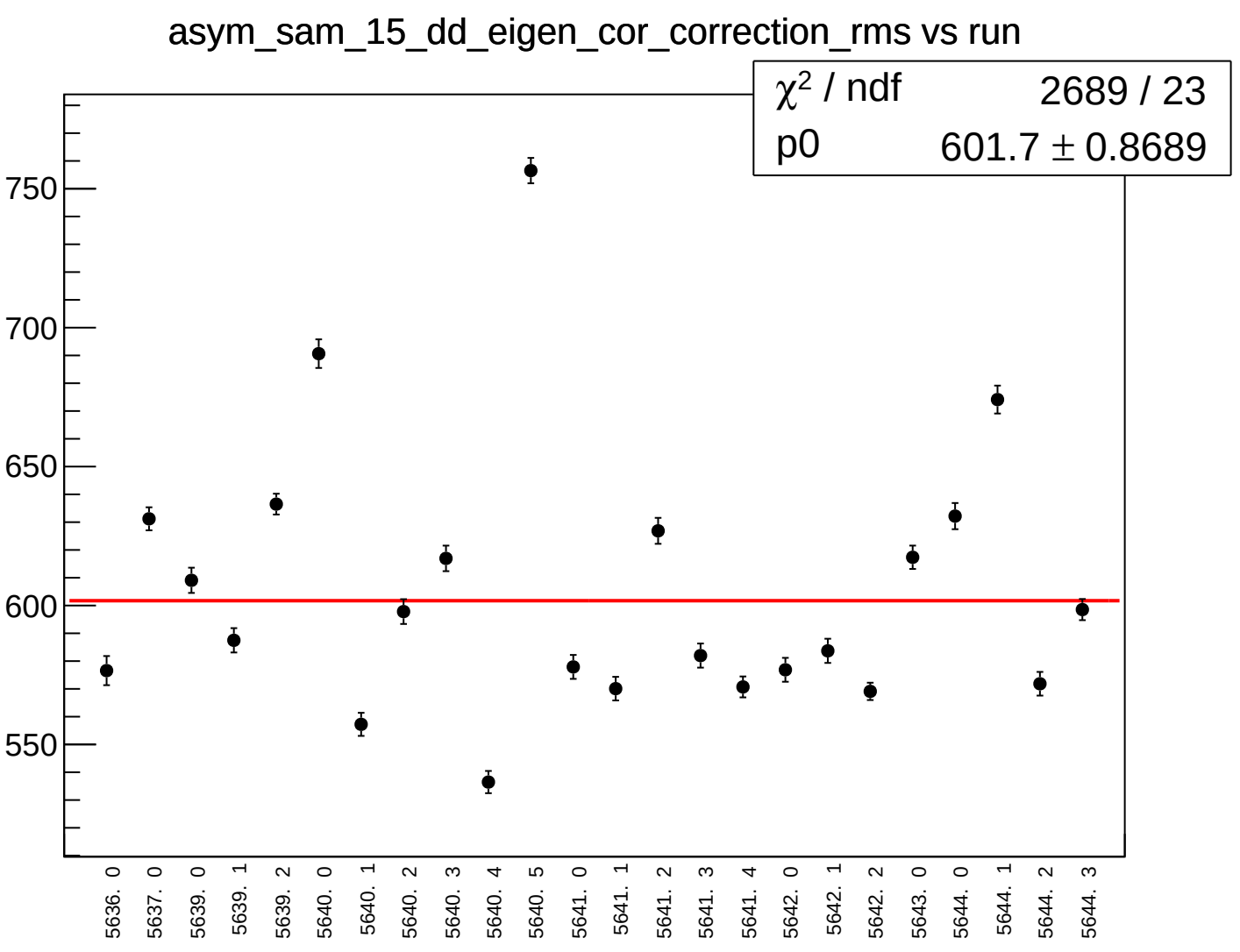

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 2689 / 23
p0 601.7 ± 0.8689
750
700
650
600
550
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

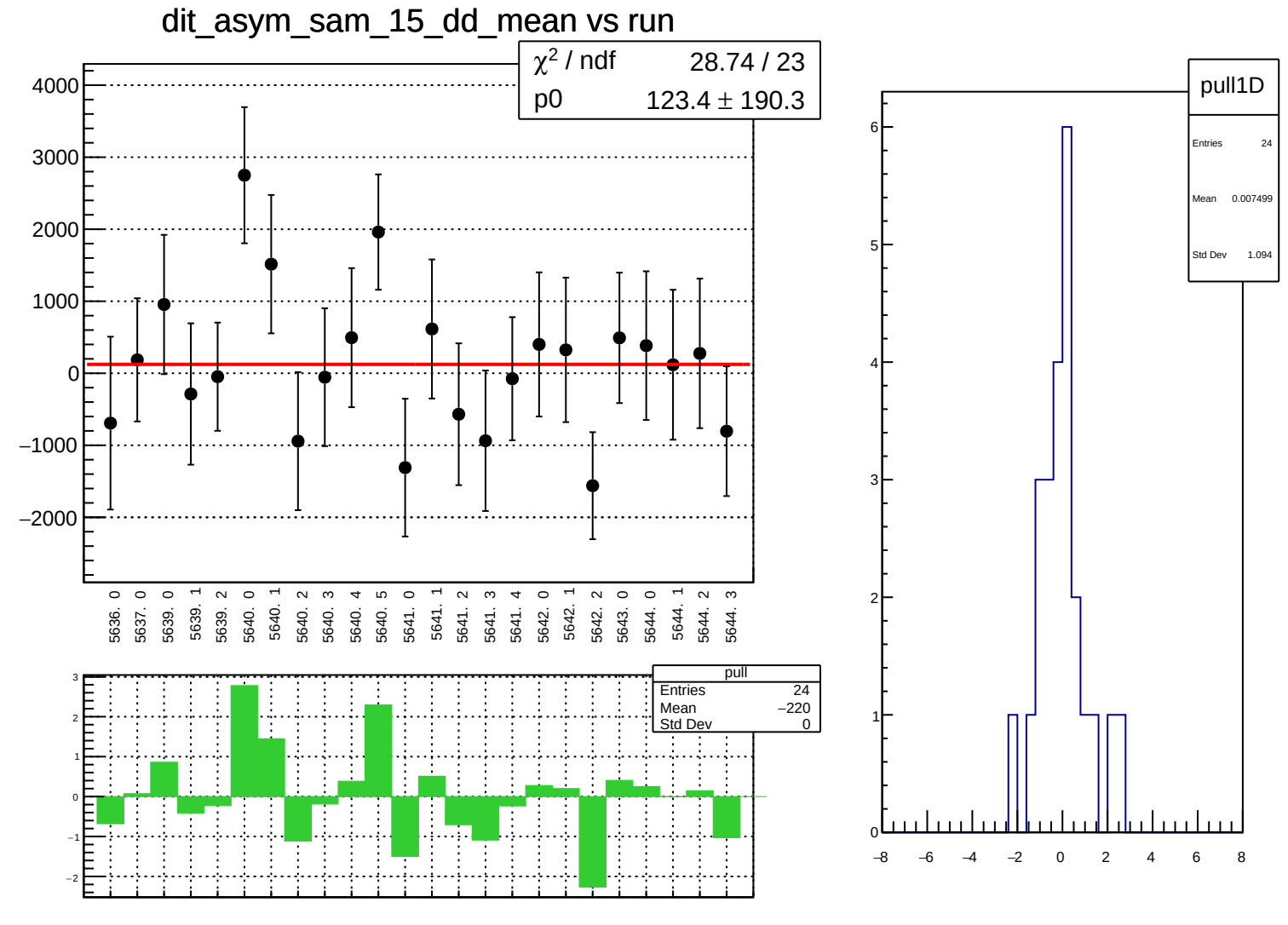

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 30.06 / 23
p0 97.61 ± 176.7
4000
3000
2000
1000
0
−1000
−2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 457.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 24
Mean −0.003439
Std Dev 1.119
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

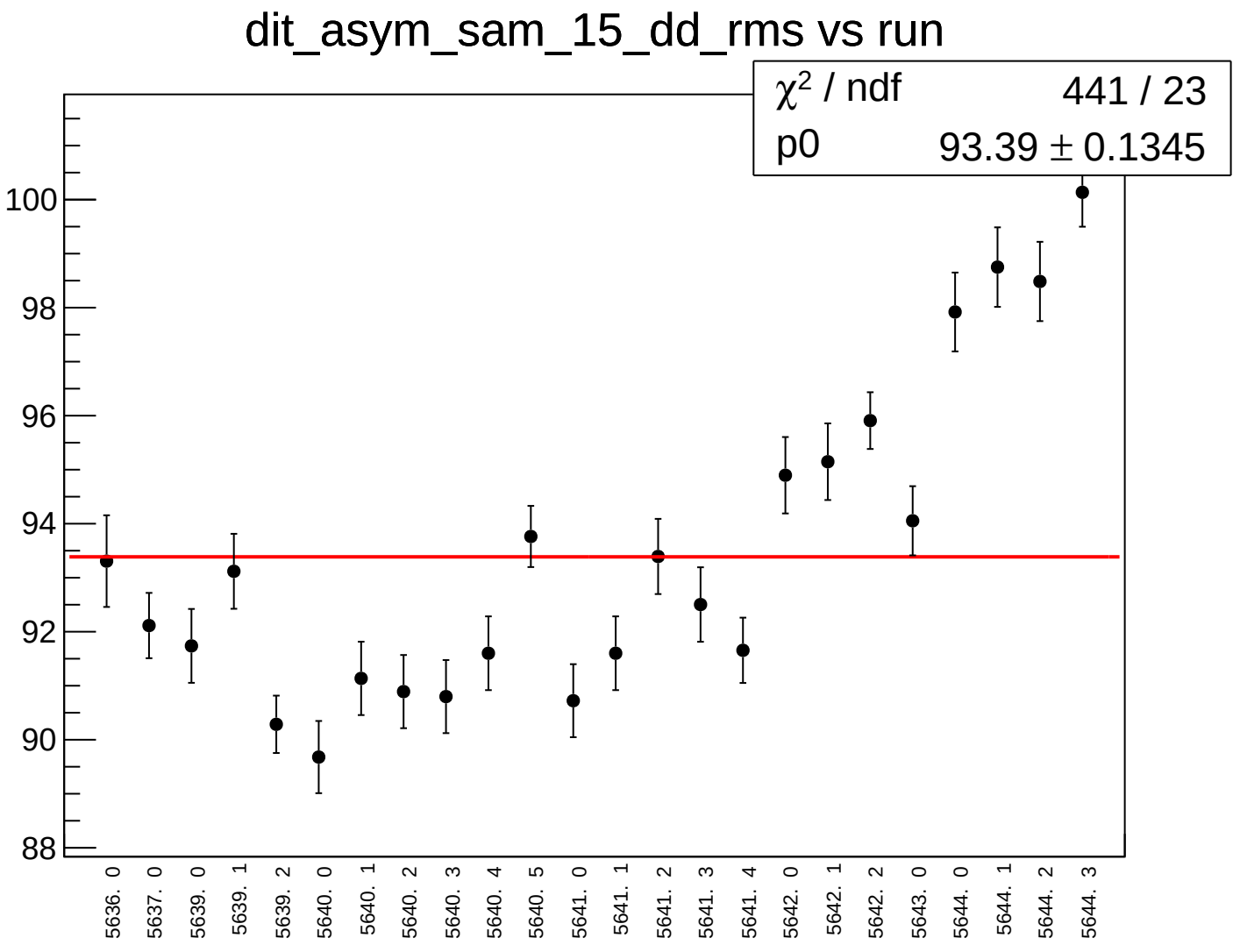

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 503 / 23
p0 86.71 ± 0.1249
94
92
90
88
86
84
82
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 23.05 / 23
p0 877.2 ± 1229
20000
15000
10000
5000
0
−5000
−10000
−15000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −26.92
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean 0.04116
Std Dev 0.9792
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 2689 / 23
p0 601.7 ± 0.8689
750
700
650
600
550
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


dit_asym_sam_15_dd_mean vs run
χ² / ndf 28.74 / 23
p0 123.4 ± 190.3
4000
3000
2000
1000
0
−1000
−2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −220
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 24
Mean 0.007499
Std Dev 1.094
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_15_dd_rms vs run
χ² / ndf 441 / 23
p0 93.39 ± 0.1345
100
98
96
94
92
90
88
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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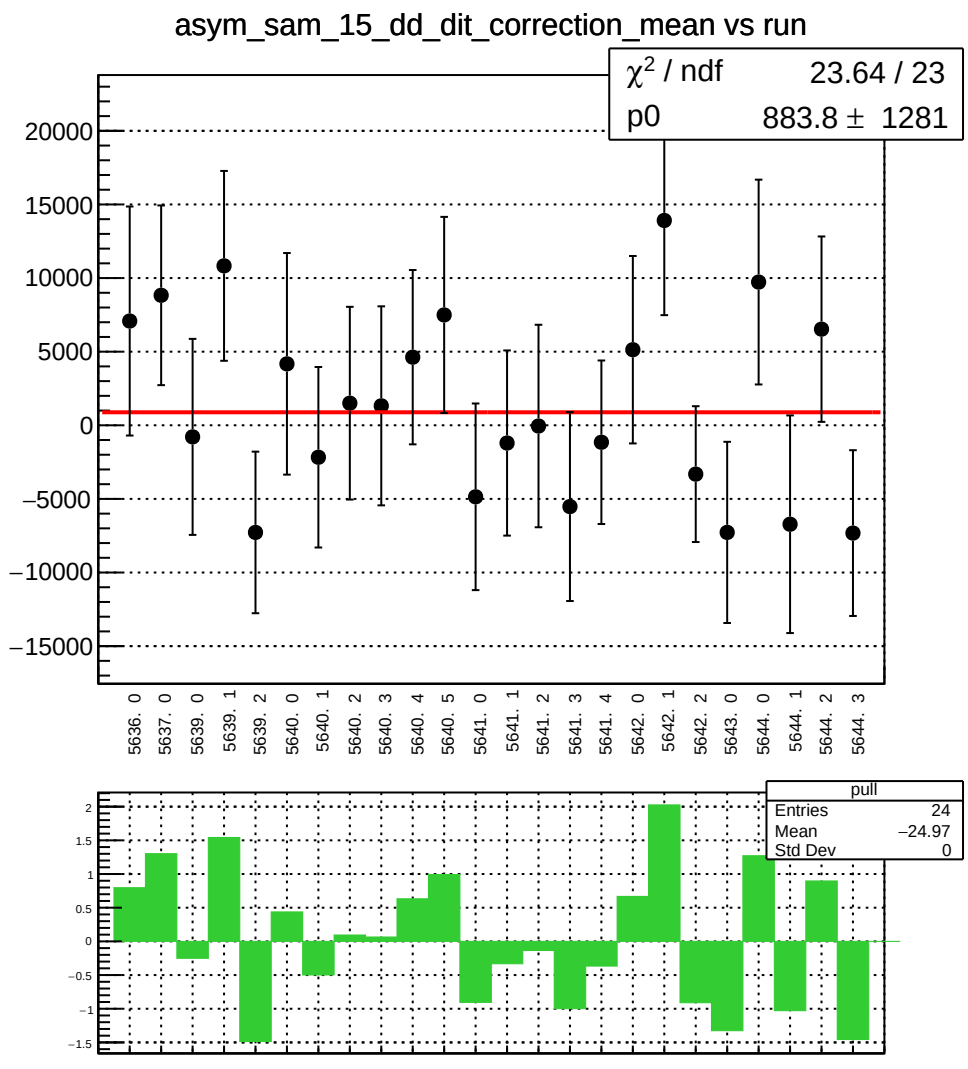
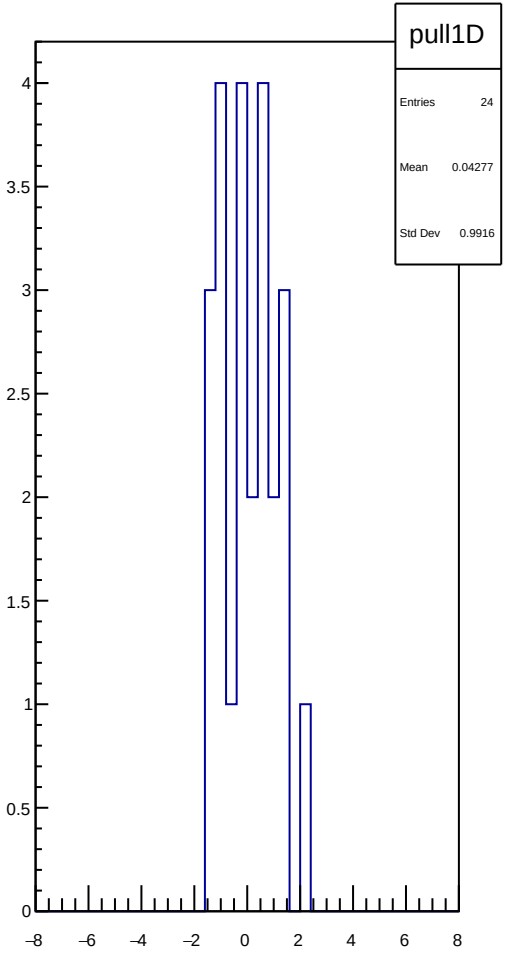
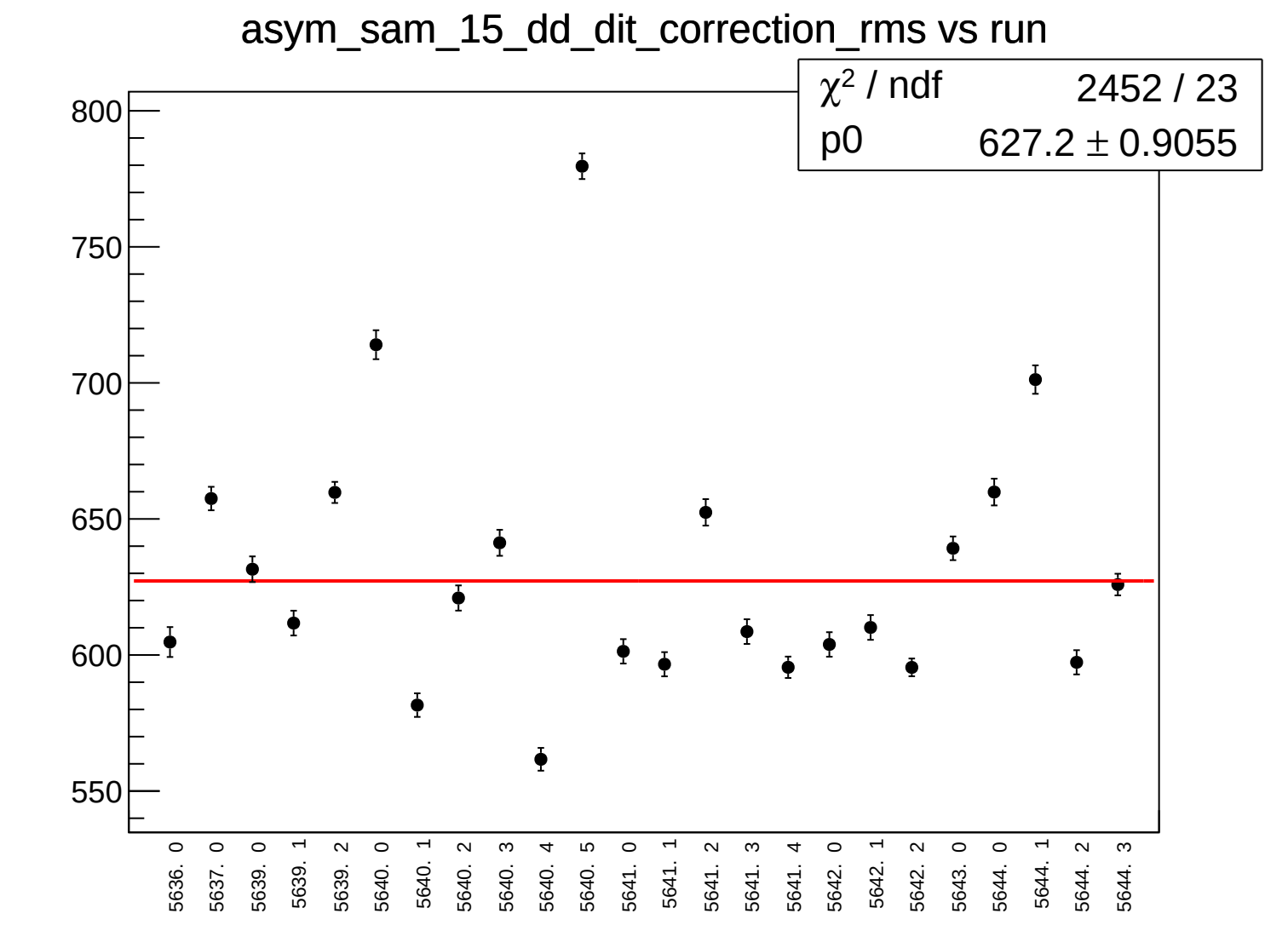
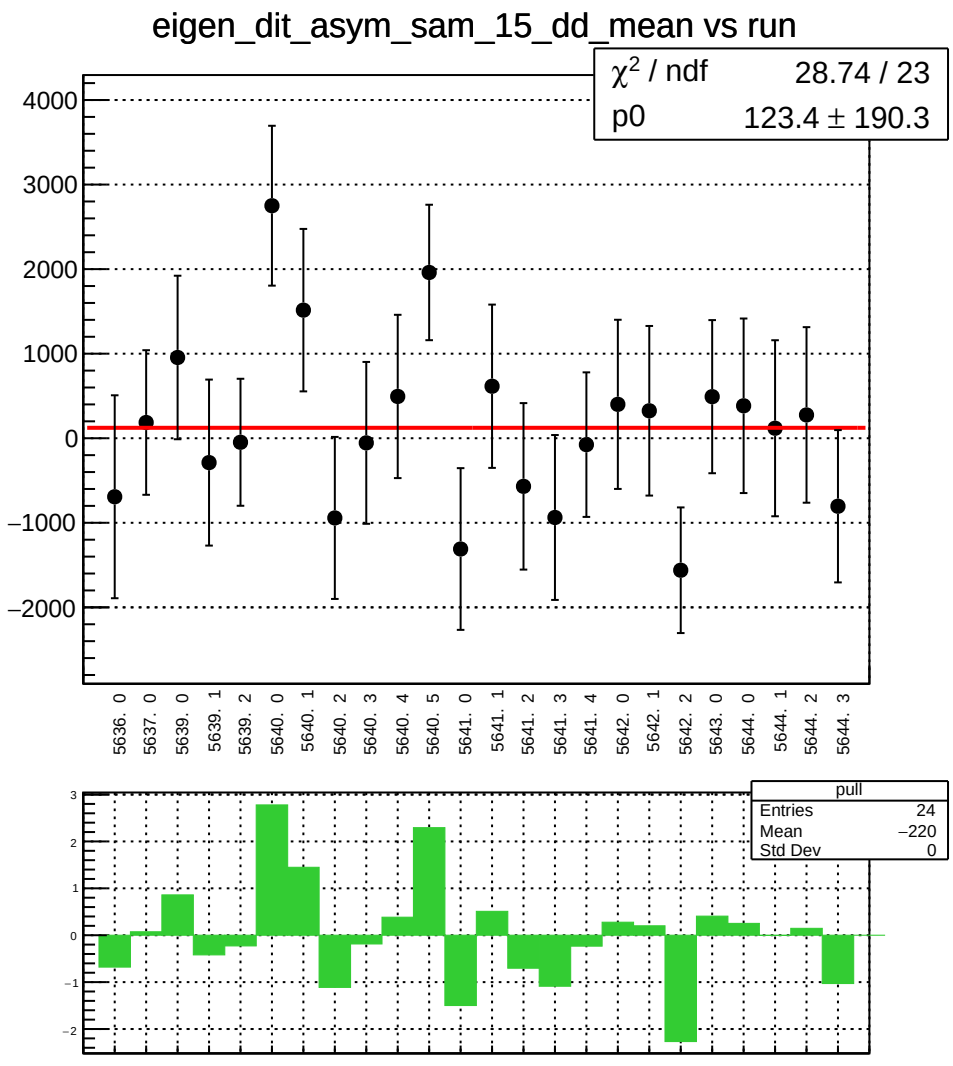
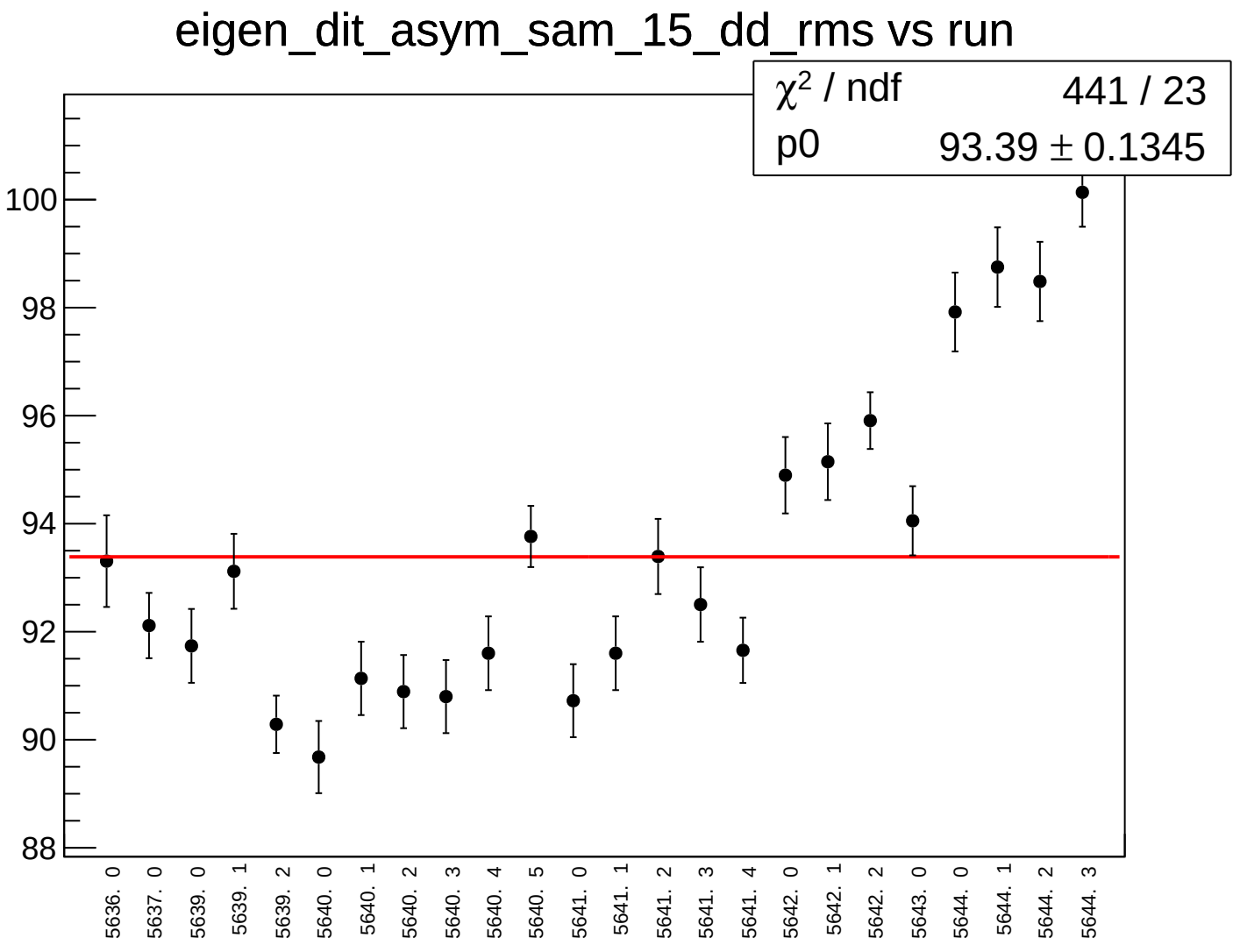
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 23.64 / 23
p0 883.8 ± 1281
20000
15000
10000
5000
0
−5000
−10000
−15000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −24.97
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean 0.04277
Std Dev 0.9916
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 2452 / 23
p0 627.2 ± 0.9055
800
750
700
650
600
550
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 28.74 / 23
p0 123.4 ± 190.3
4000
3000
2000
1000
0
−1000
−2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −220
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 24
Mean 0.007499
Std Dev 1.094
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 441 / 23
p0 93.39 ± 0.1345
100
98
96
94
92
90
88
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5642. 0
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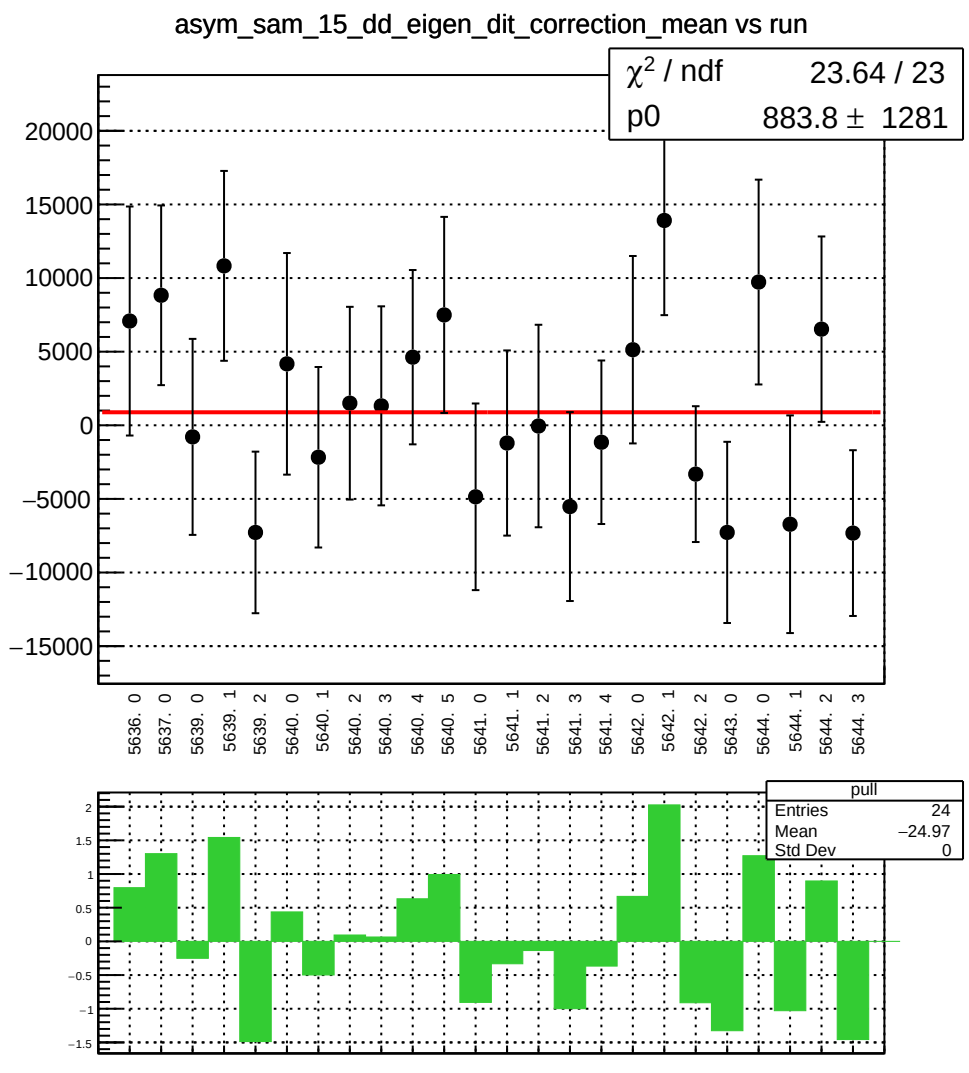
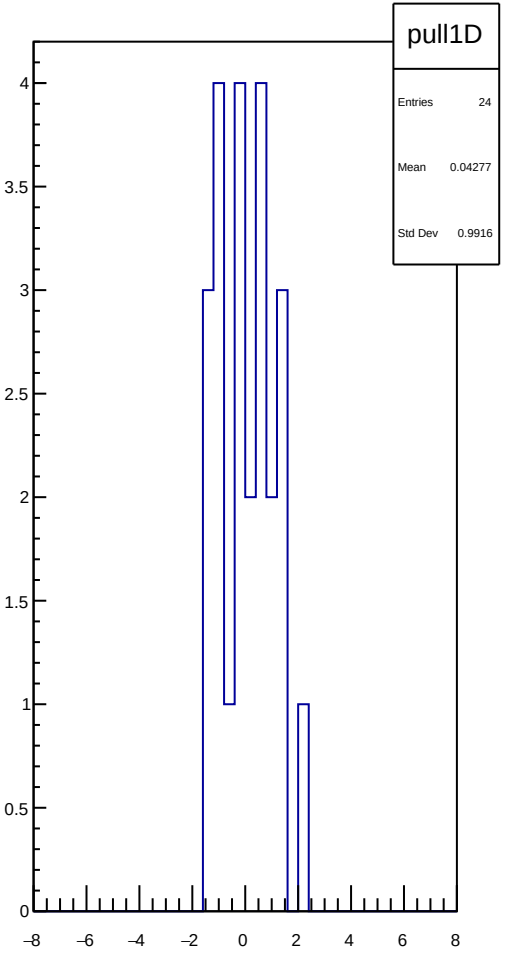
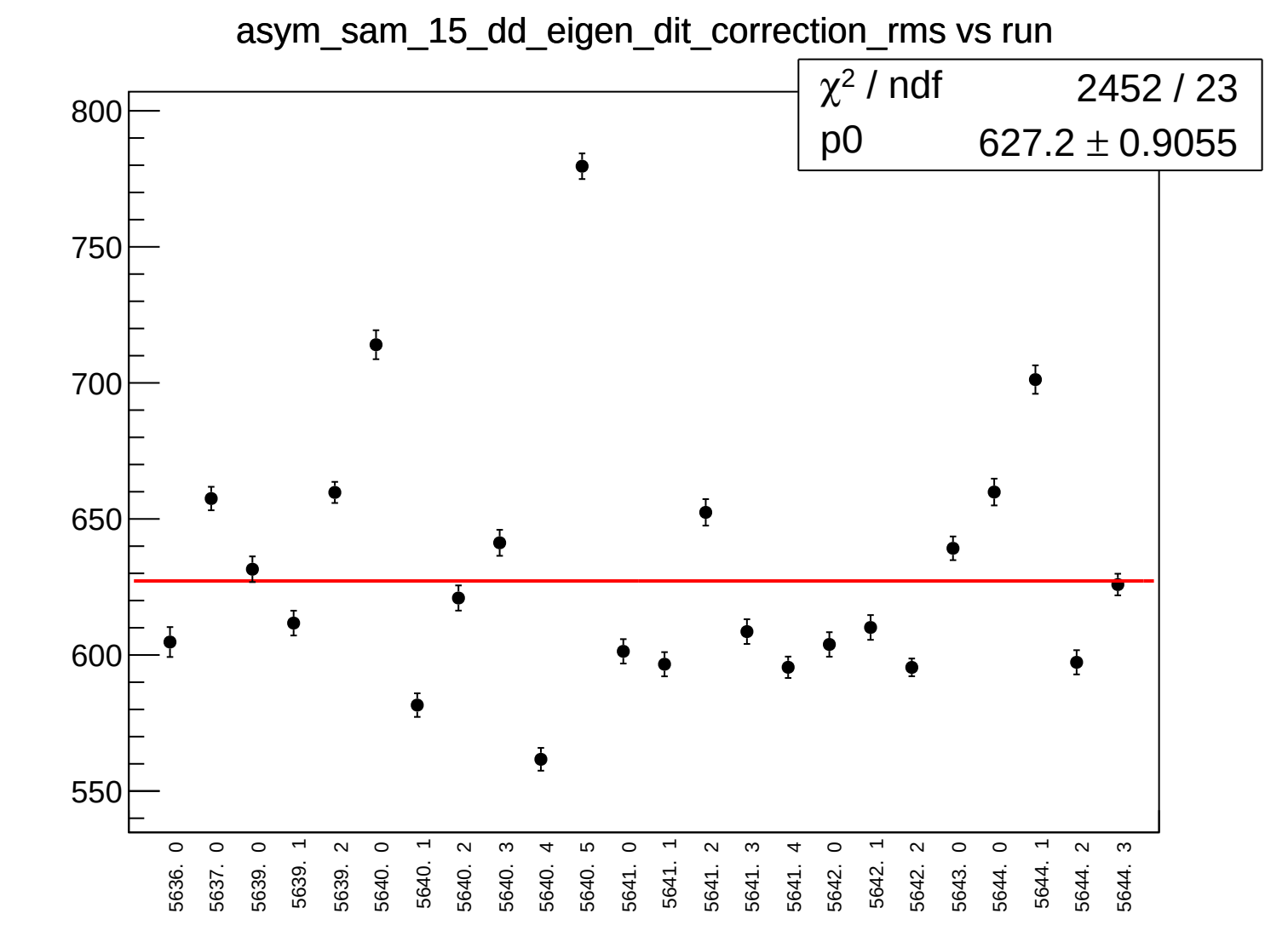
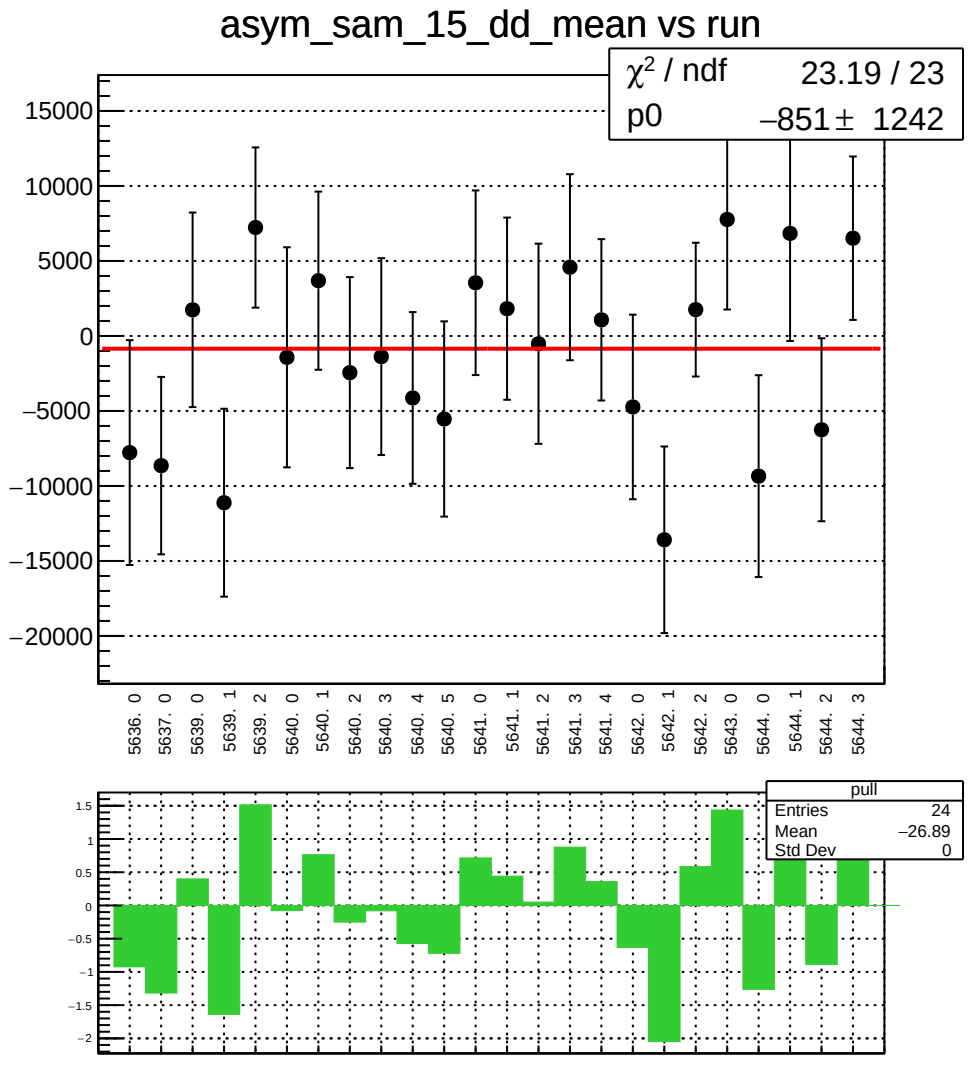
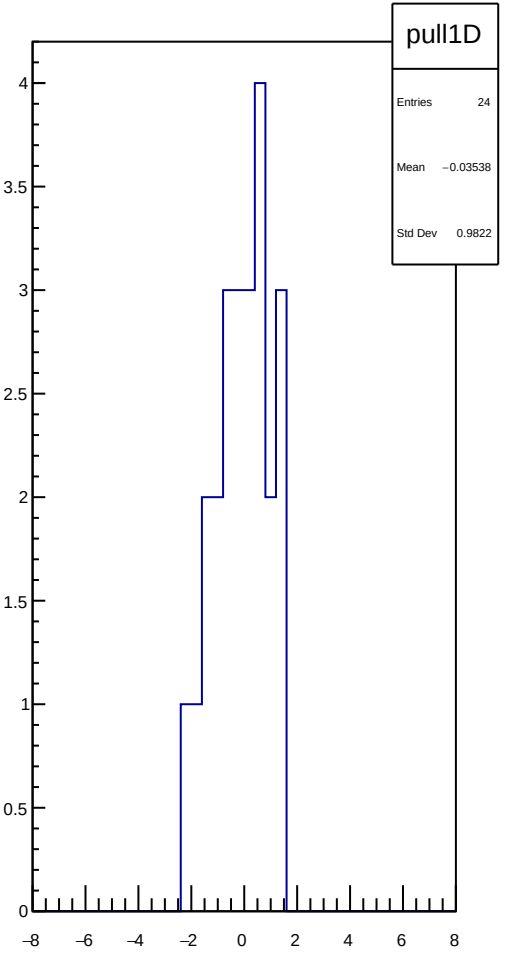
5644. 2
5644. 3

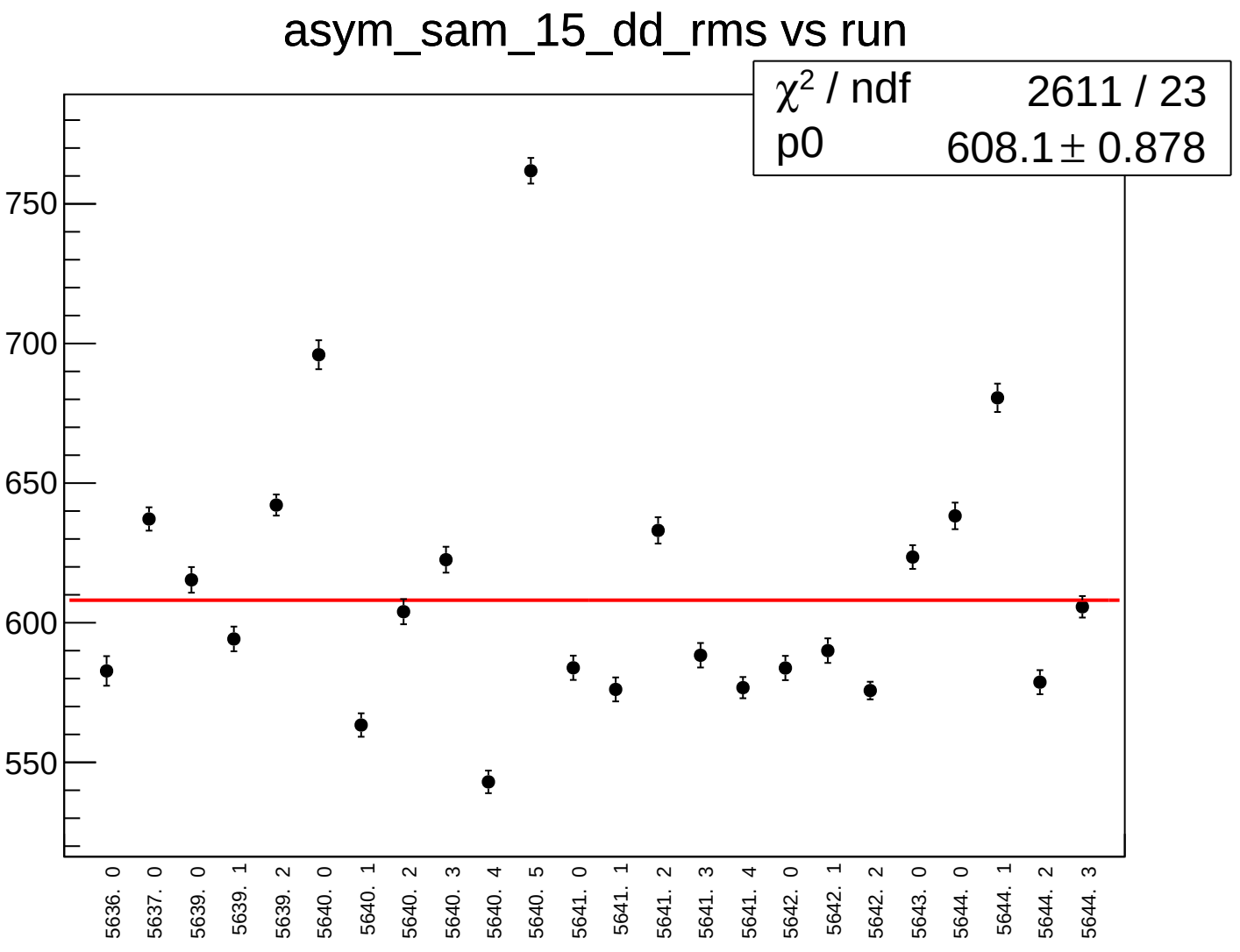

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 23.64 / 23
p0 883.8 ± 1281
20000
15000
10000
5000
0
−5000
−10000
−15000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −24.97
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

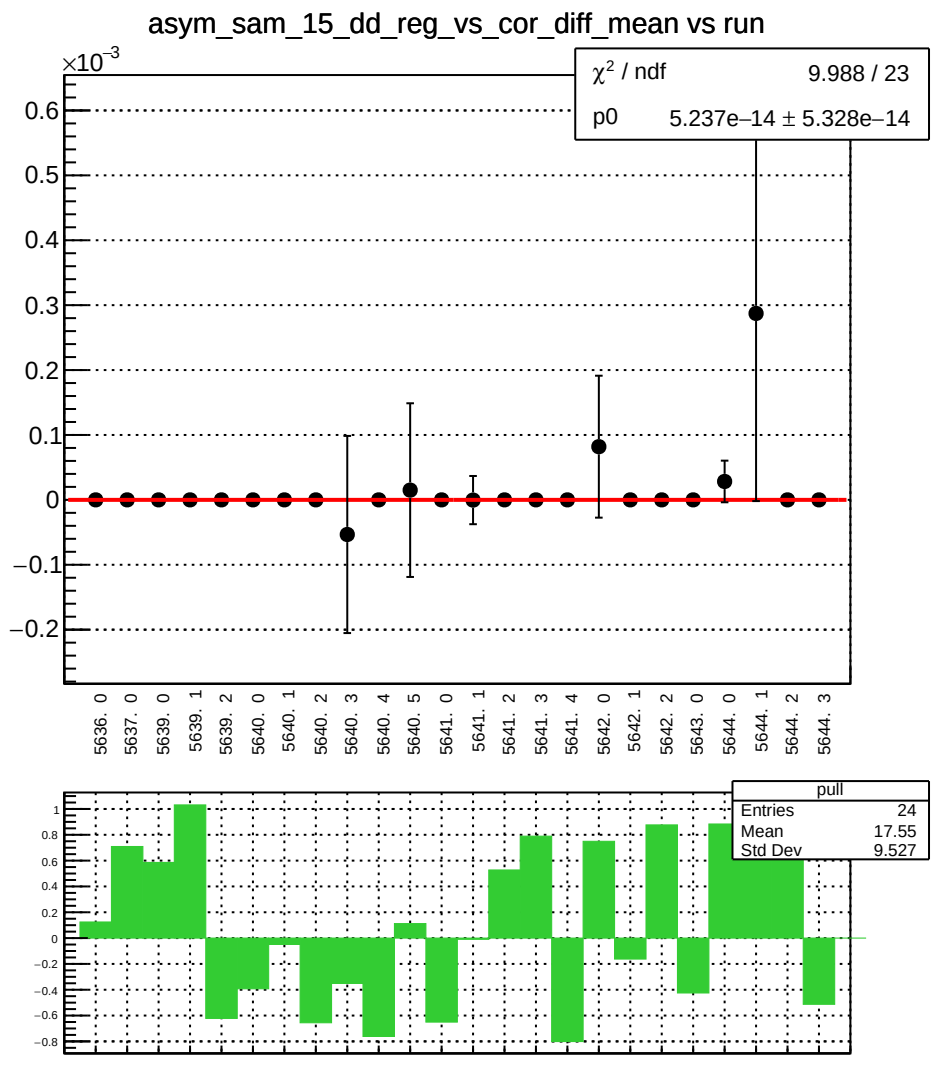

pull1D
Entries 24
Mean 0.04277
Std Dev 0.9916
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

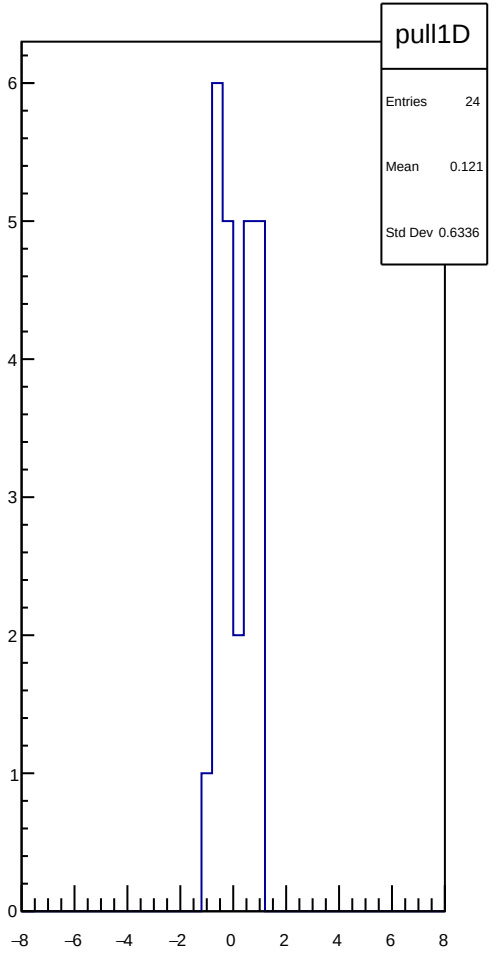

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 2452 / 23
p0 627.2 ± 0.9055
800
750
700
650
600
550
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

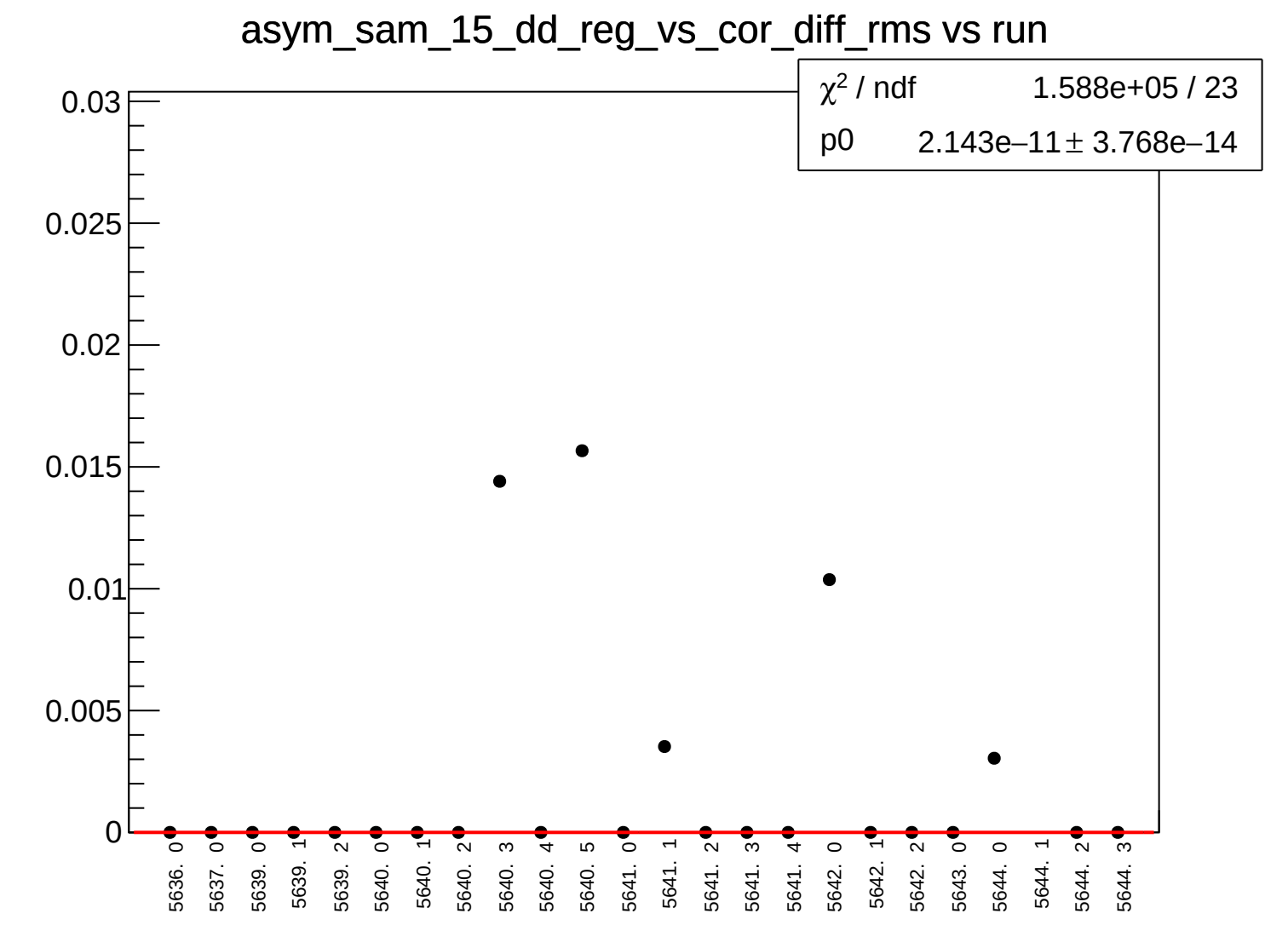

asym_sam_15_dd_mean vs run
χ² / ndf 23.19 / 23
p0 −851 ± 1242
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −26.89
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

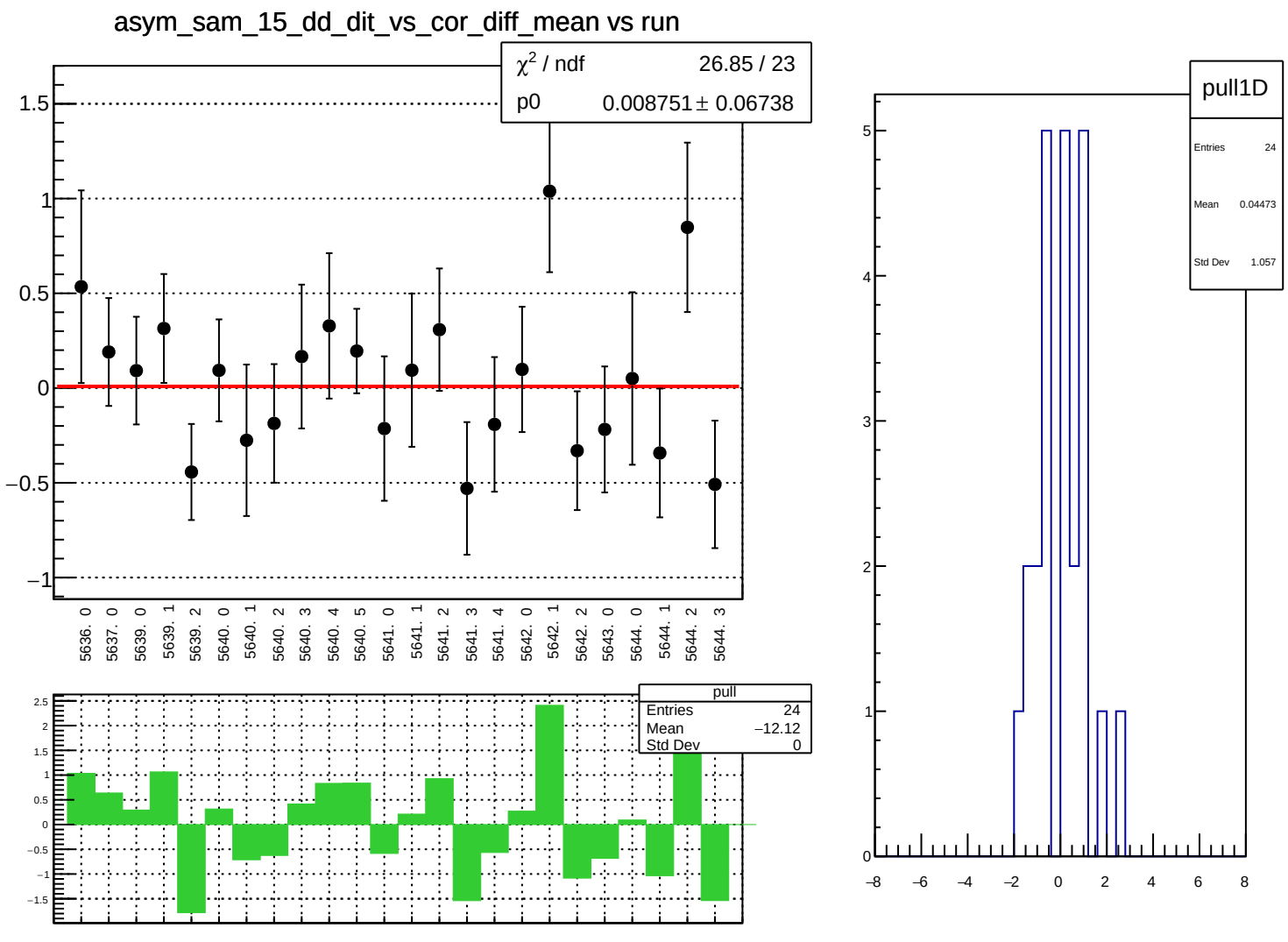

pull1D
Entries 24
Mean −0.03538
Std Dev 0.9822
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

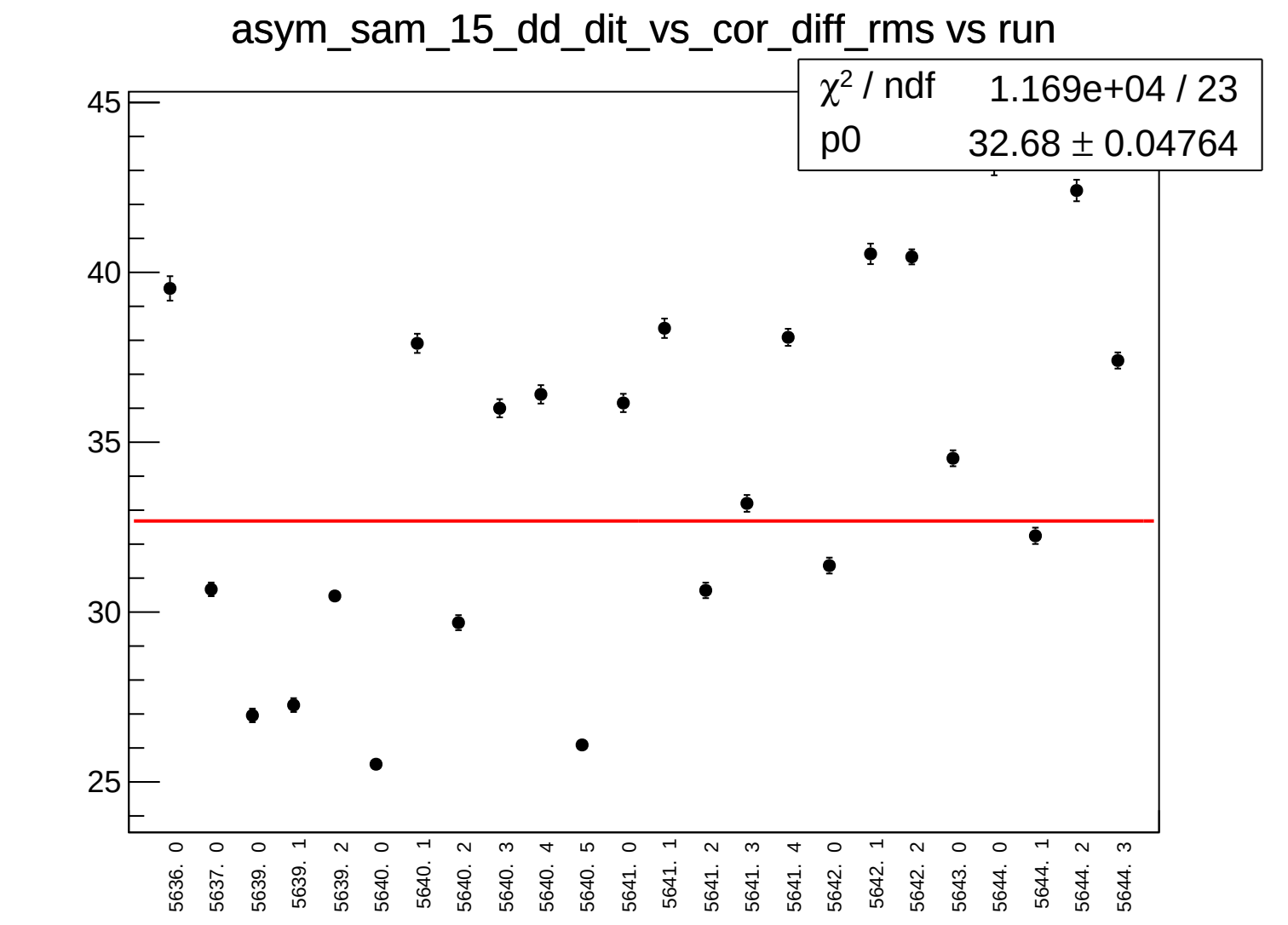

asym_sam_15_dd_rms vs run
χ² / ndf 2611 / 23
p0 608.1 ± 0.878
750
700
650
600
550
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

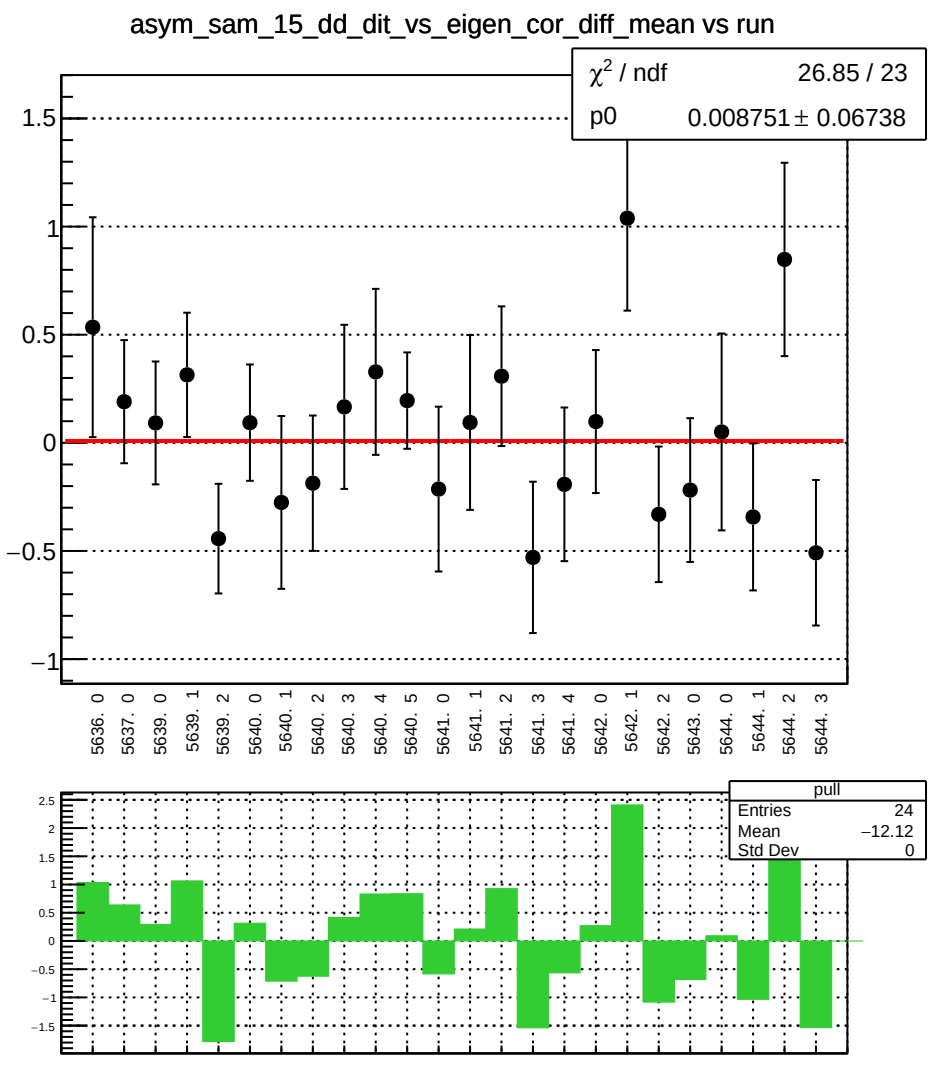

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 9.988 / 23
p0 5.237e−14 ± 5.328e−14
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 17.55
Std Dev 9.527
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

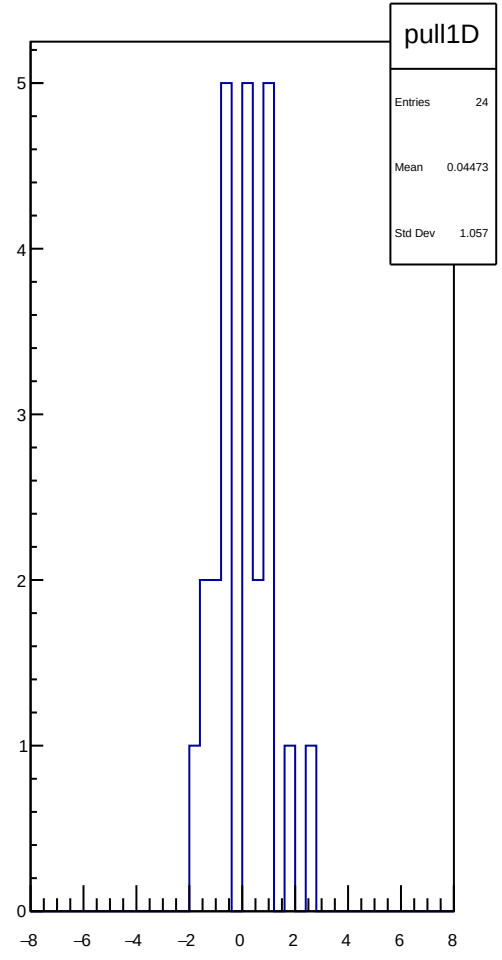

pull1D
Entries 24
Mean 0.121
Std Dev 0.6336
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

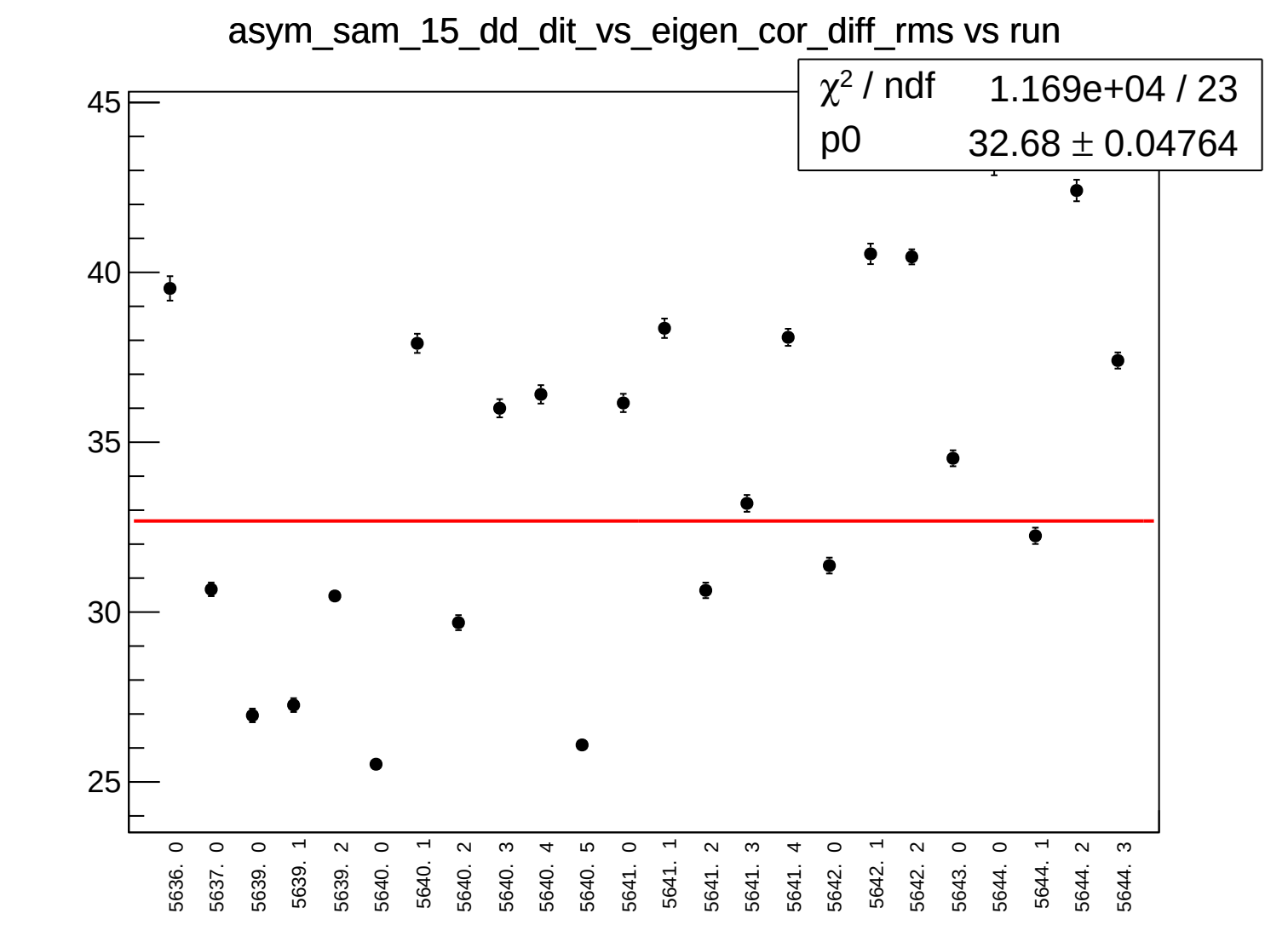

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.588e+05 / 23
p0 2.143e−11 ± 3.768e−14
0.03
0.025
0.02
0.015
0.01
0.005
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

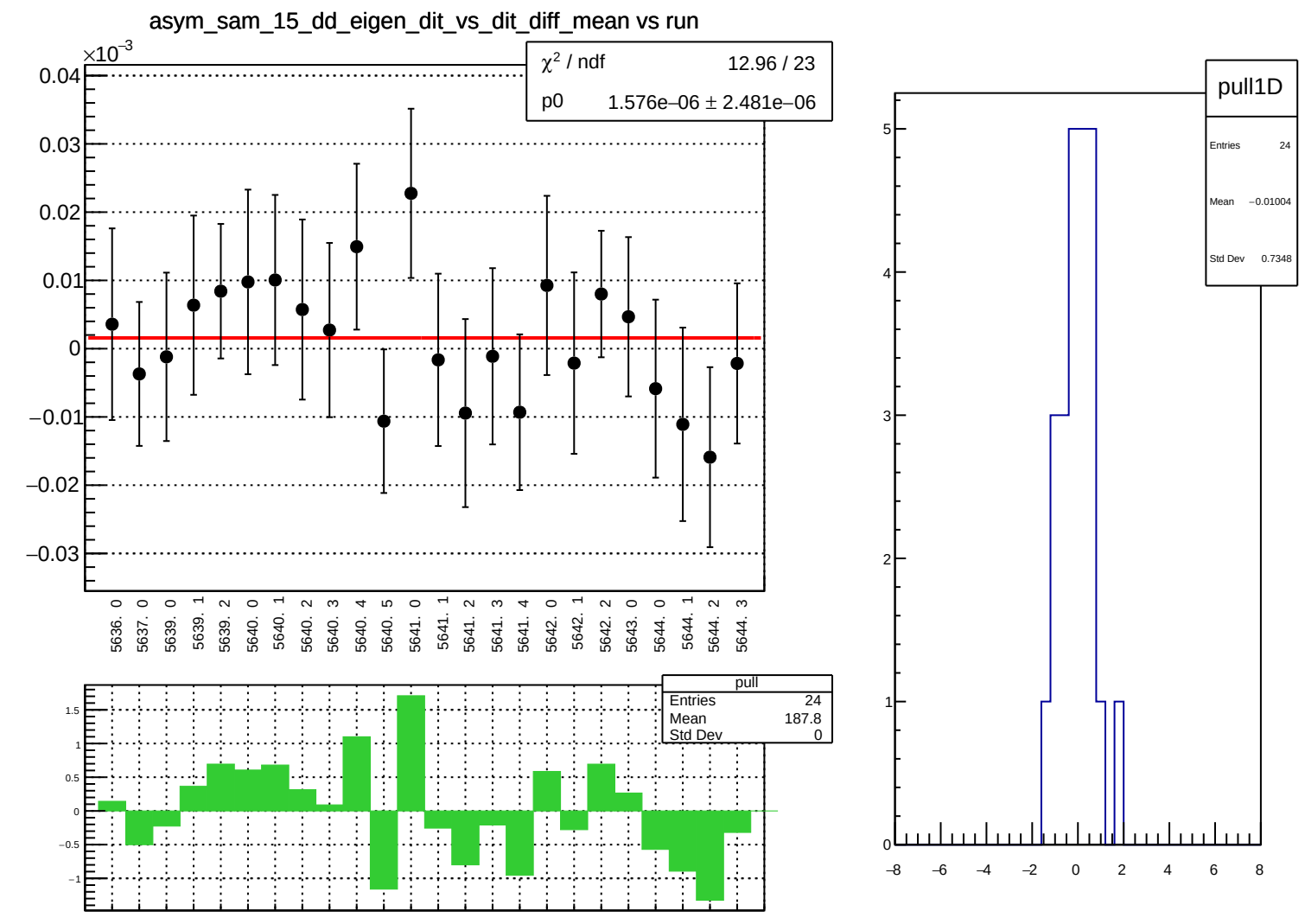

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 26.85 / 23
p0 0.008751 ± 0.06738
1.5
1
0.5
0
−0.5
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −12.12
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.04473
Std Dev 1.057
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

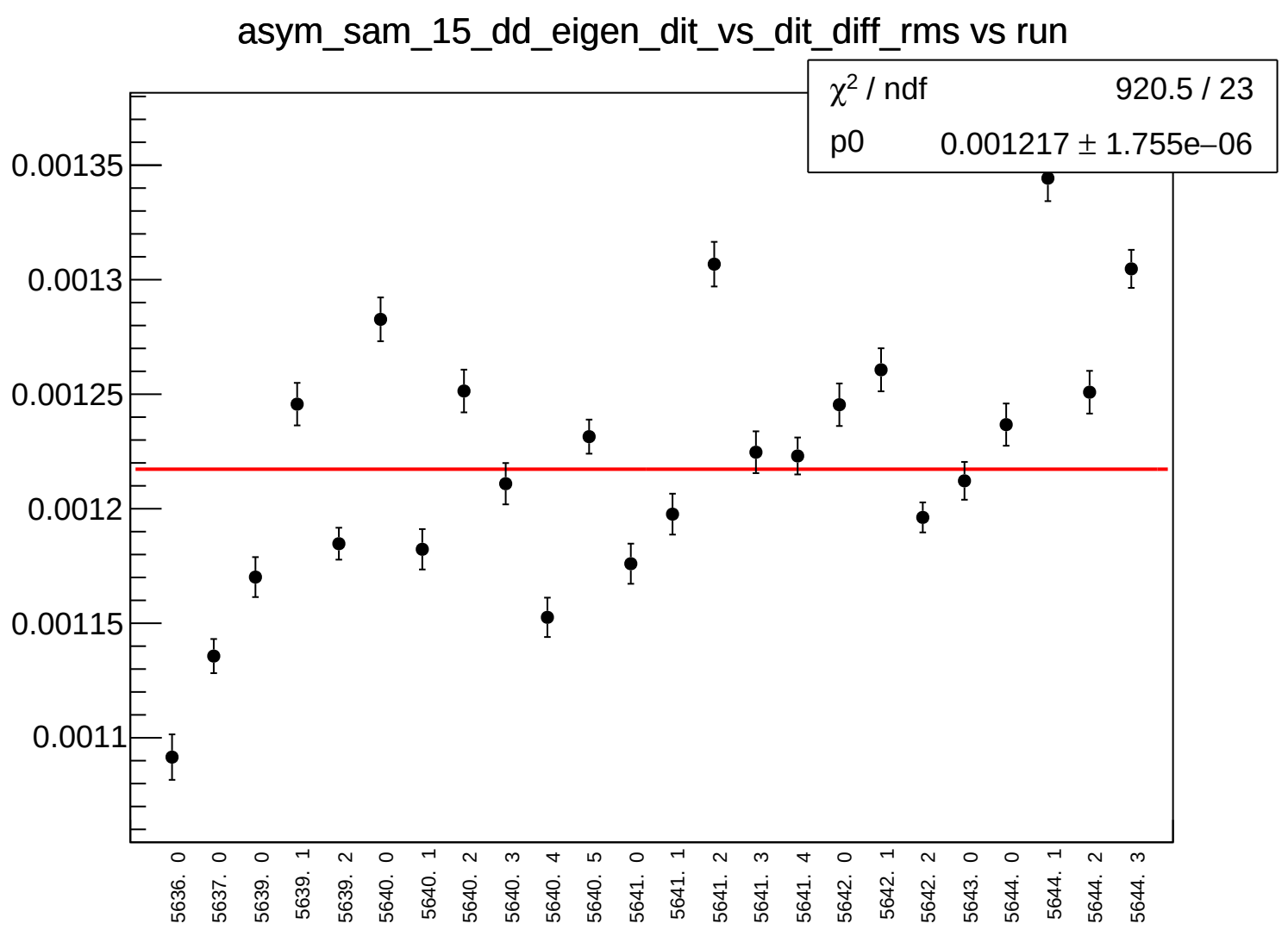

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.169e+04 / 23
p0 32.68 ± 0.04764
45
40
35
30
25
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

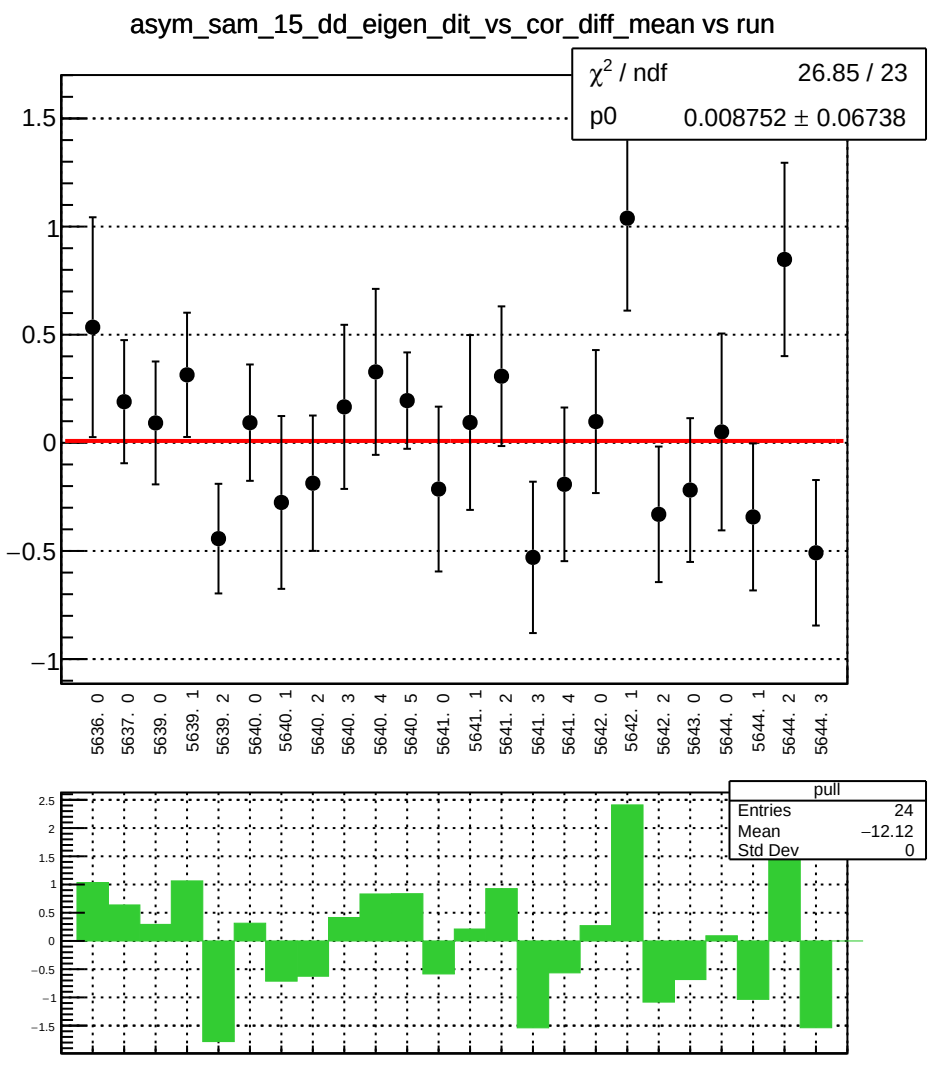

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 26.85 / 23
p0 0.008751 ± 0.06738
1.5
1
0.5
0
−0.5
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −12.12
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

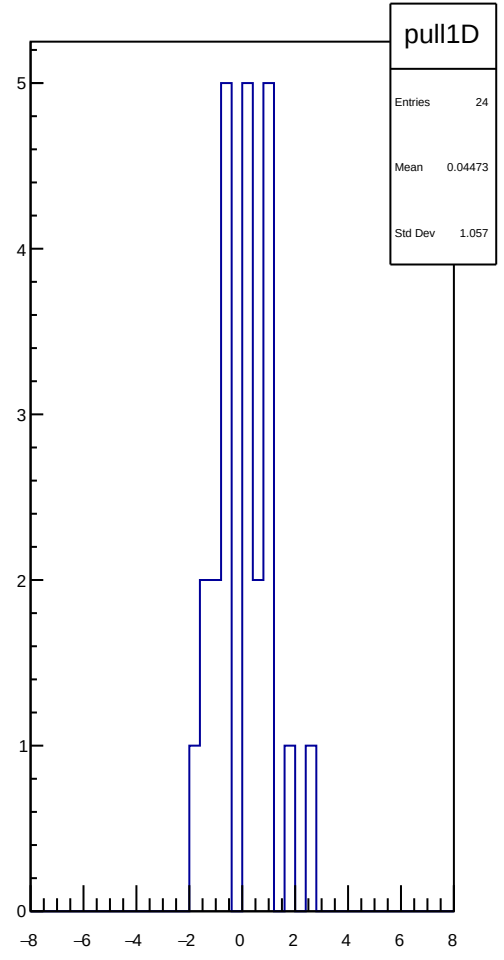

pull1D
Entries 24
Mean 0.04473
Std Dev 1.057
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

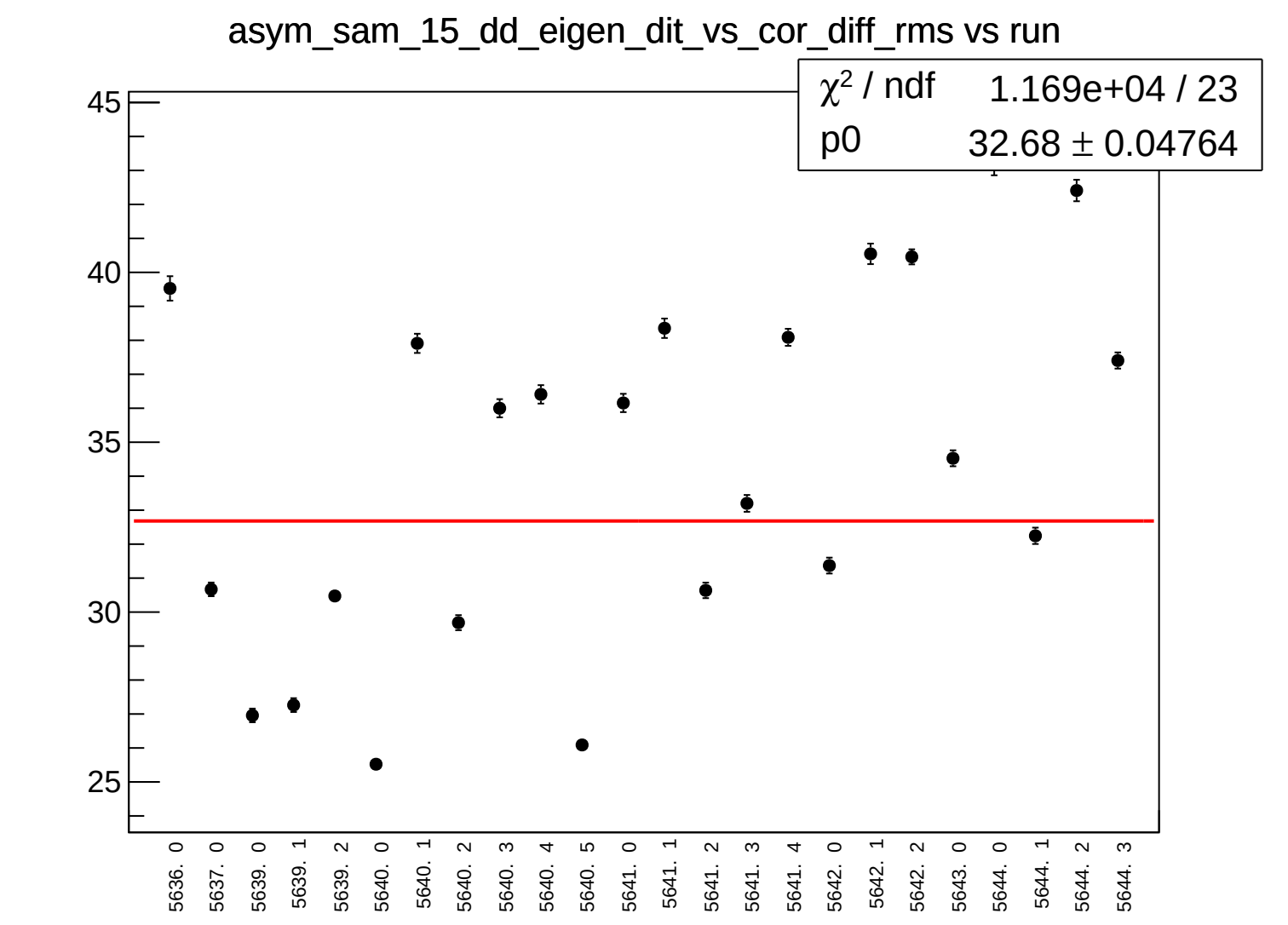

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.169e+04 / 23
p0 32.68 ± 0.04764
45
40
35
30
25
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

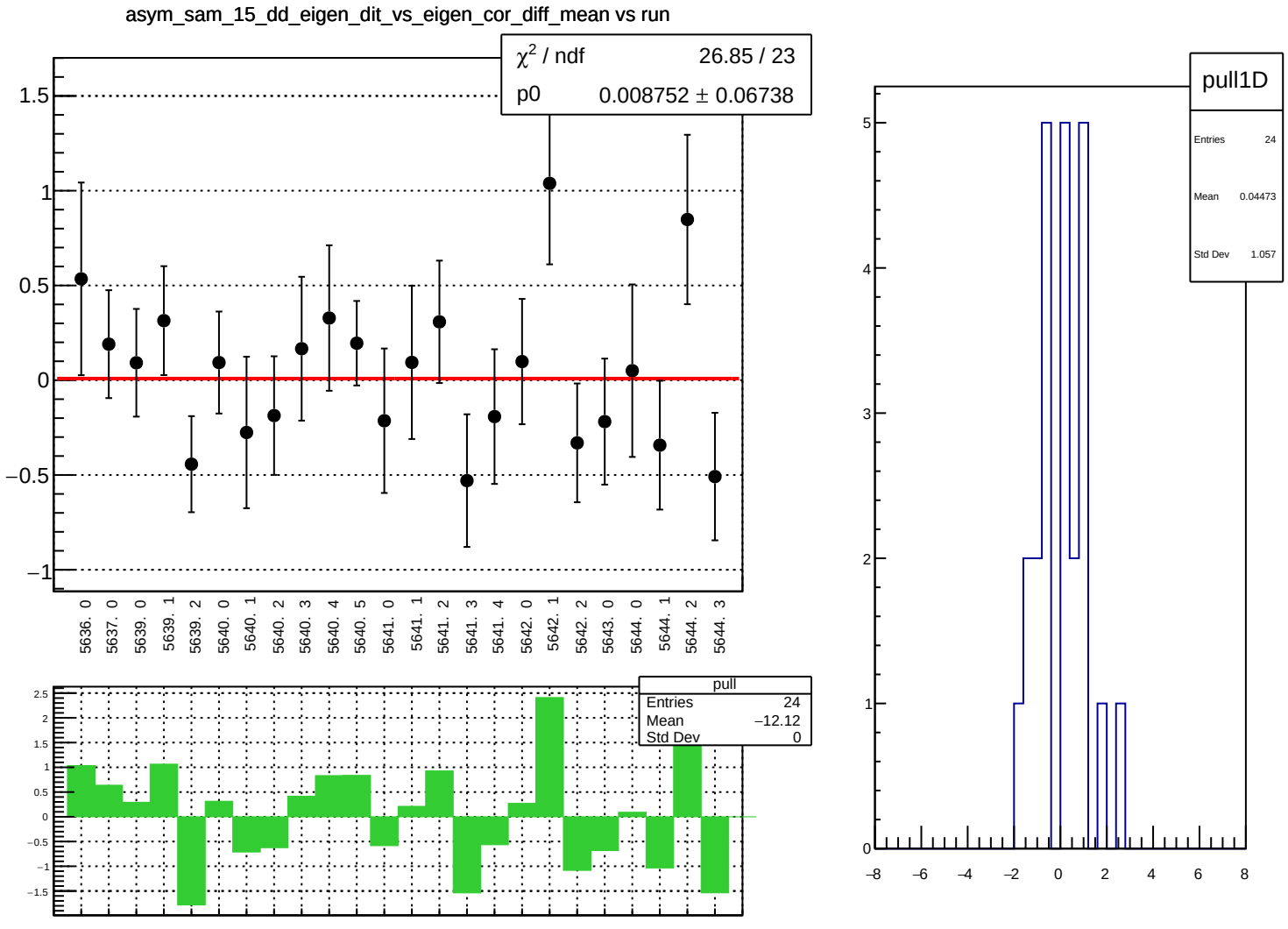

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 12.96 / 23
p0 1.576e−06 ± 2.481e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 187.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.01004
Std Dev 0.7348
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

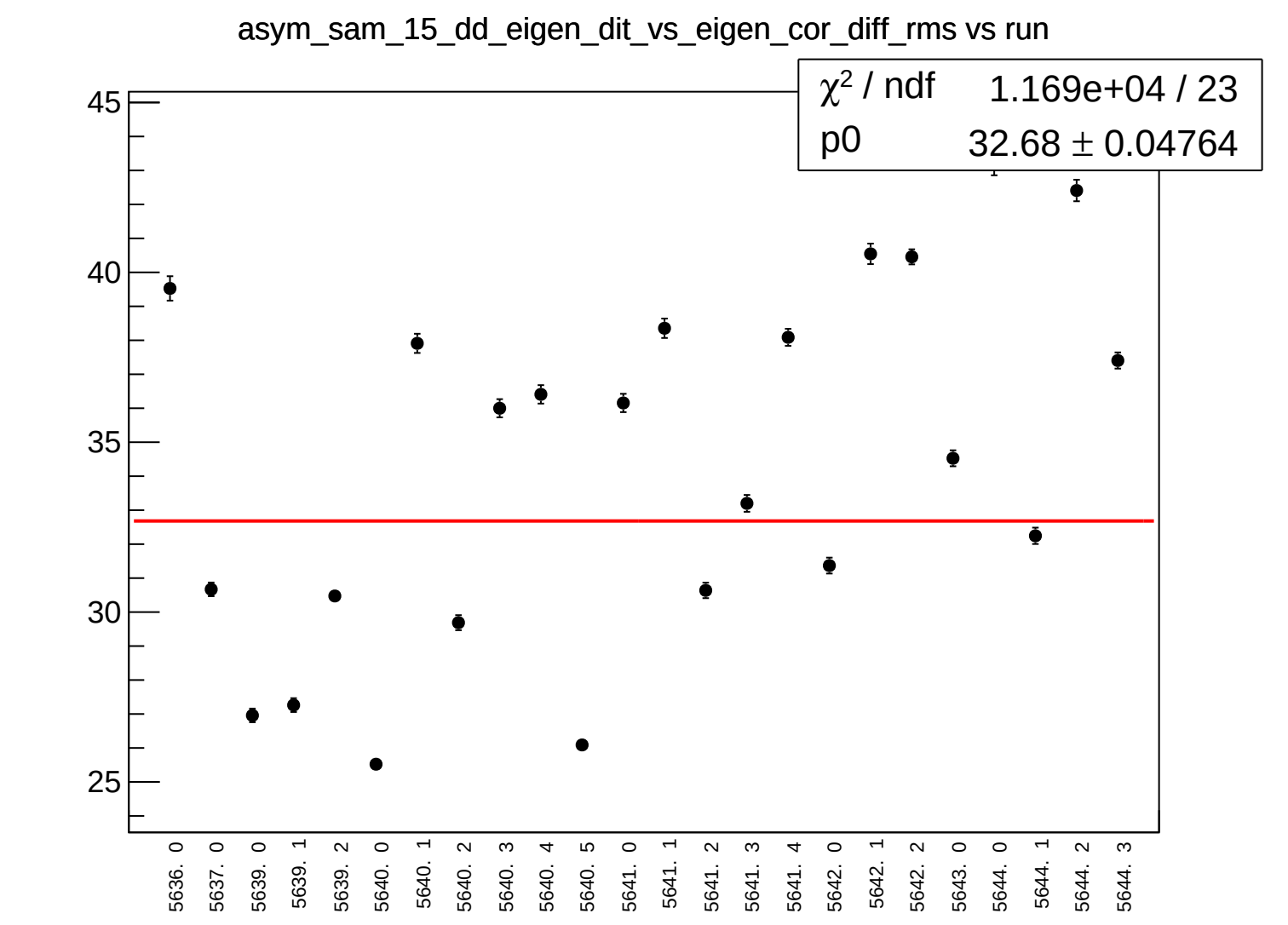

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 920.5 / 23
p0 0.001217 ± 1.755e−06
0.00135
0.0013
0.00125
0.0012
0.00115
0.0011
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

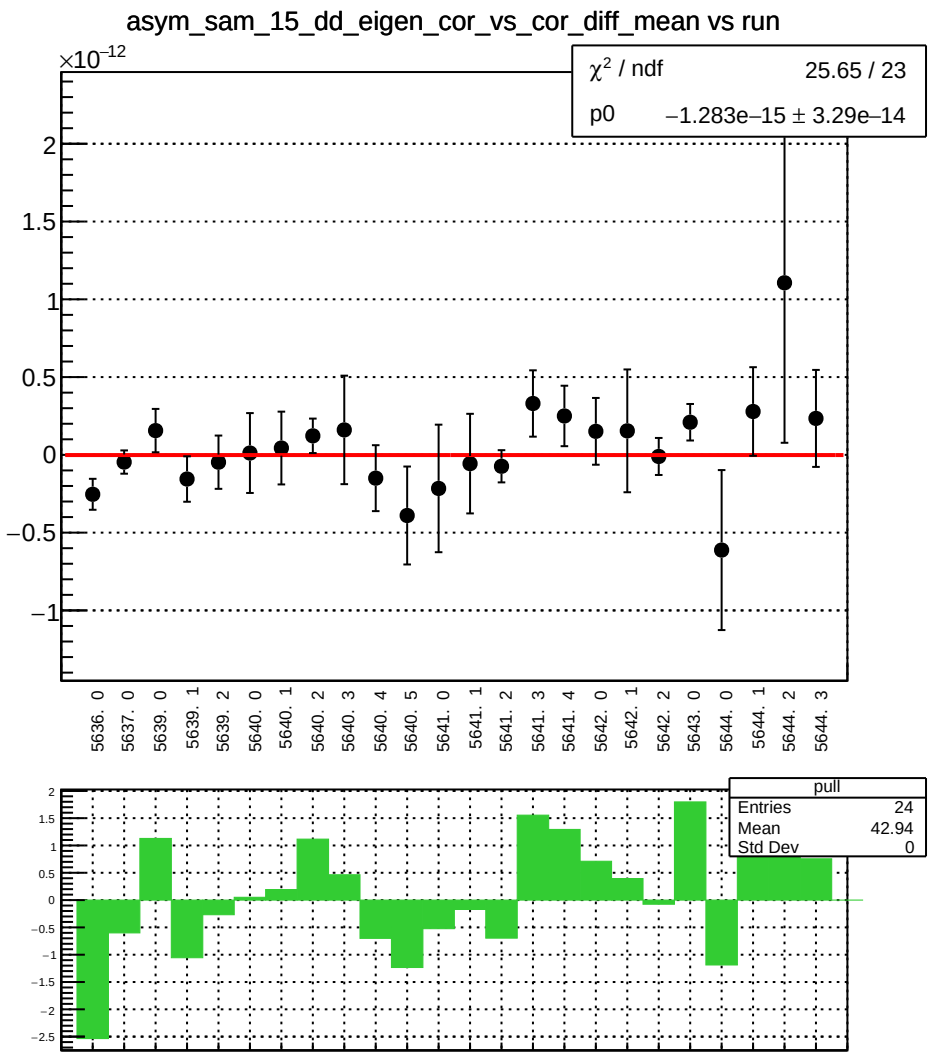

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 26.85 / 23
p0 0.008752 ± 0.06738
1.5
1
0.5
0
−0.5
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −12.12
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

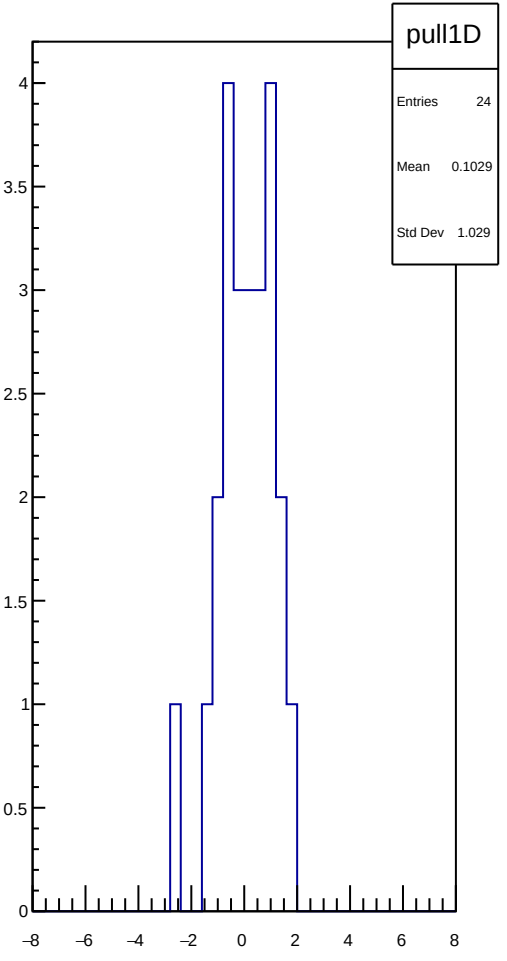

pull1D
Entries 24
Mean 0.04473
Std Dev 1.057
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

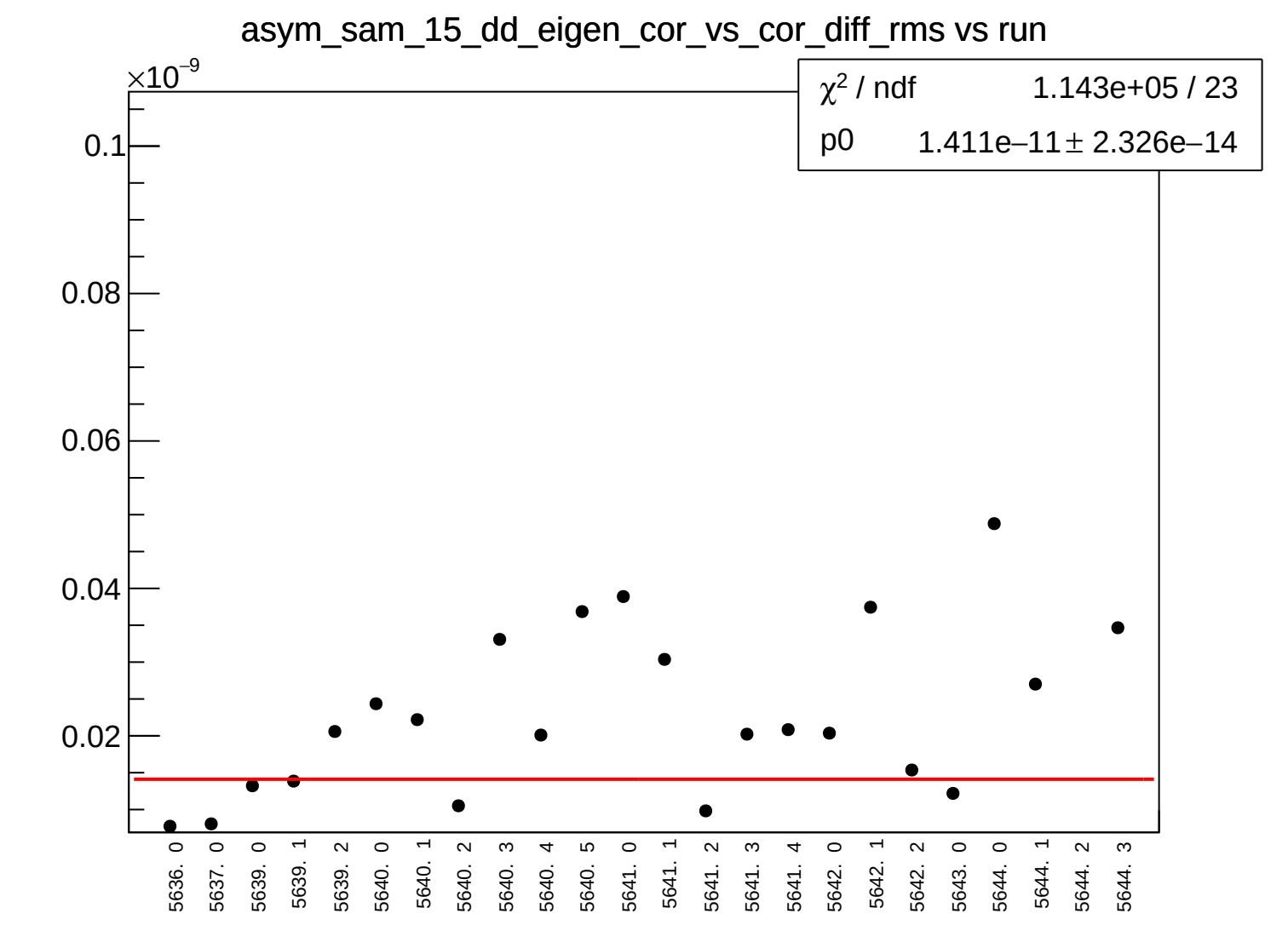

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.169e+04 / 23
p0 32.68 ± 0.04764
45
40
35
30
25
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

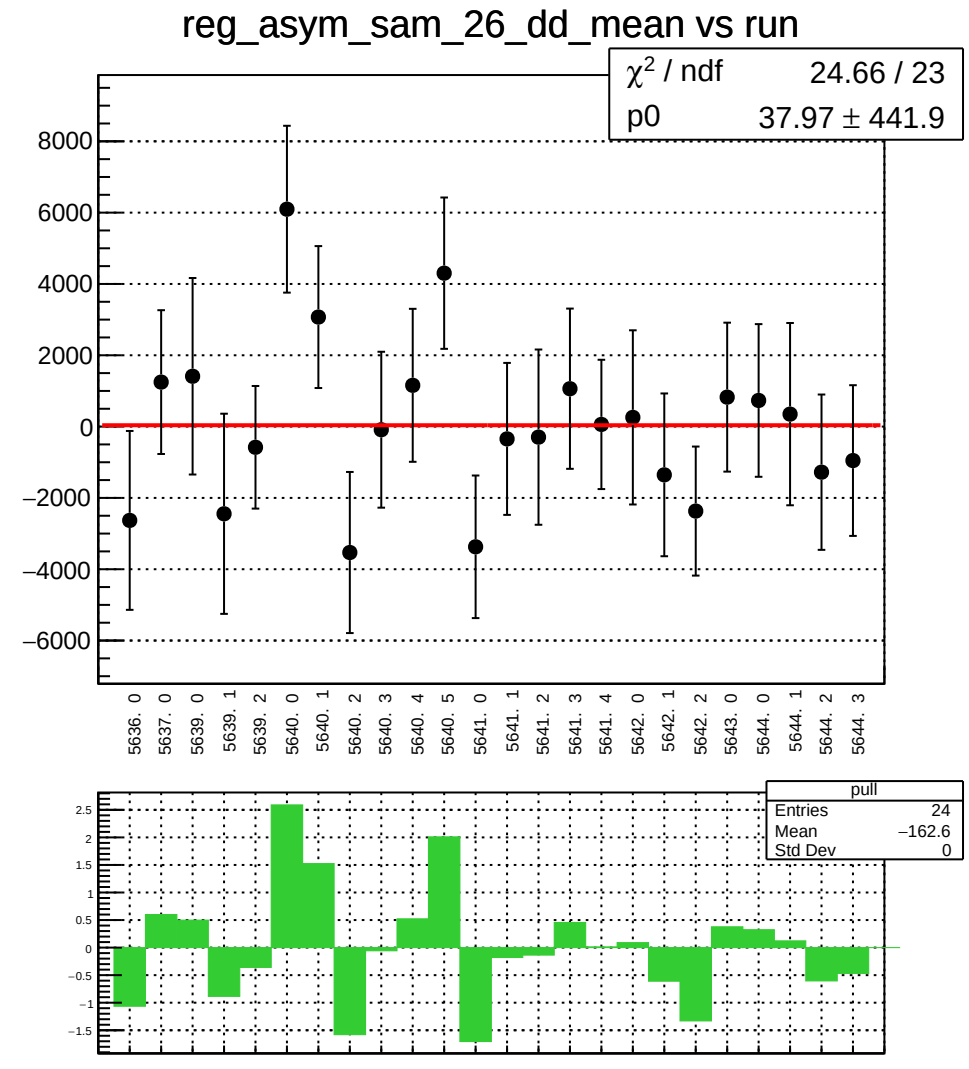

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 26.85 / 23
p0 0.008752 ± 0.06738
1.5
1
0.5
0
−0.5
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −12.12
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.04473
Std Dev 1.057
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

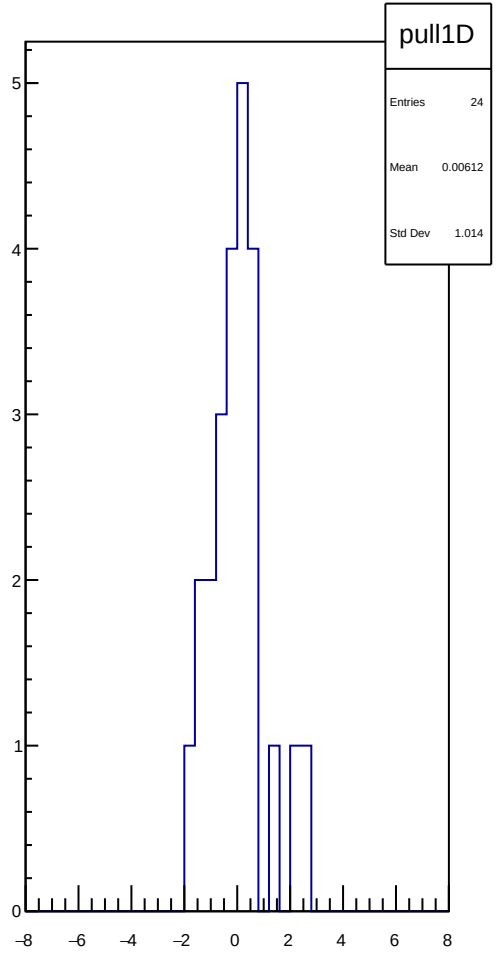

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.169e+04 / 23
p0 32.68 ± 0.04764
45
40
35
30
25
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

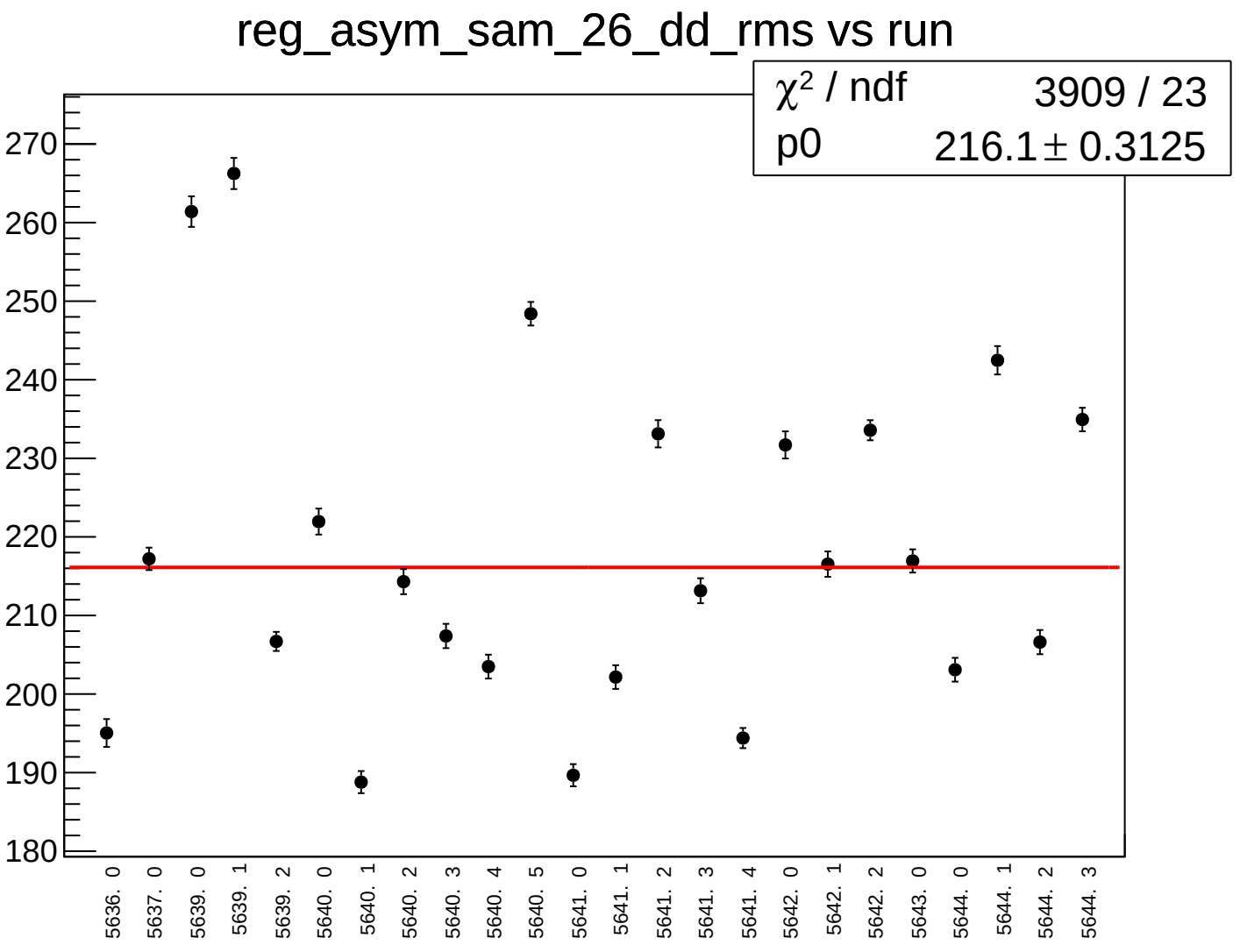

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 25.65 / 23
p0 −1.283e−15 ± 3.29e−14
2
1.5
1
0.5
0
−0.5
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 42.94
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

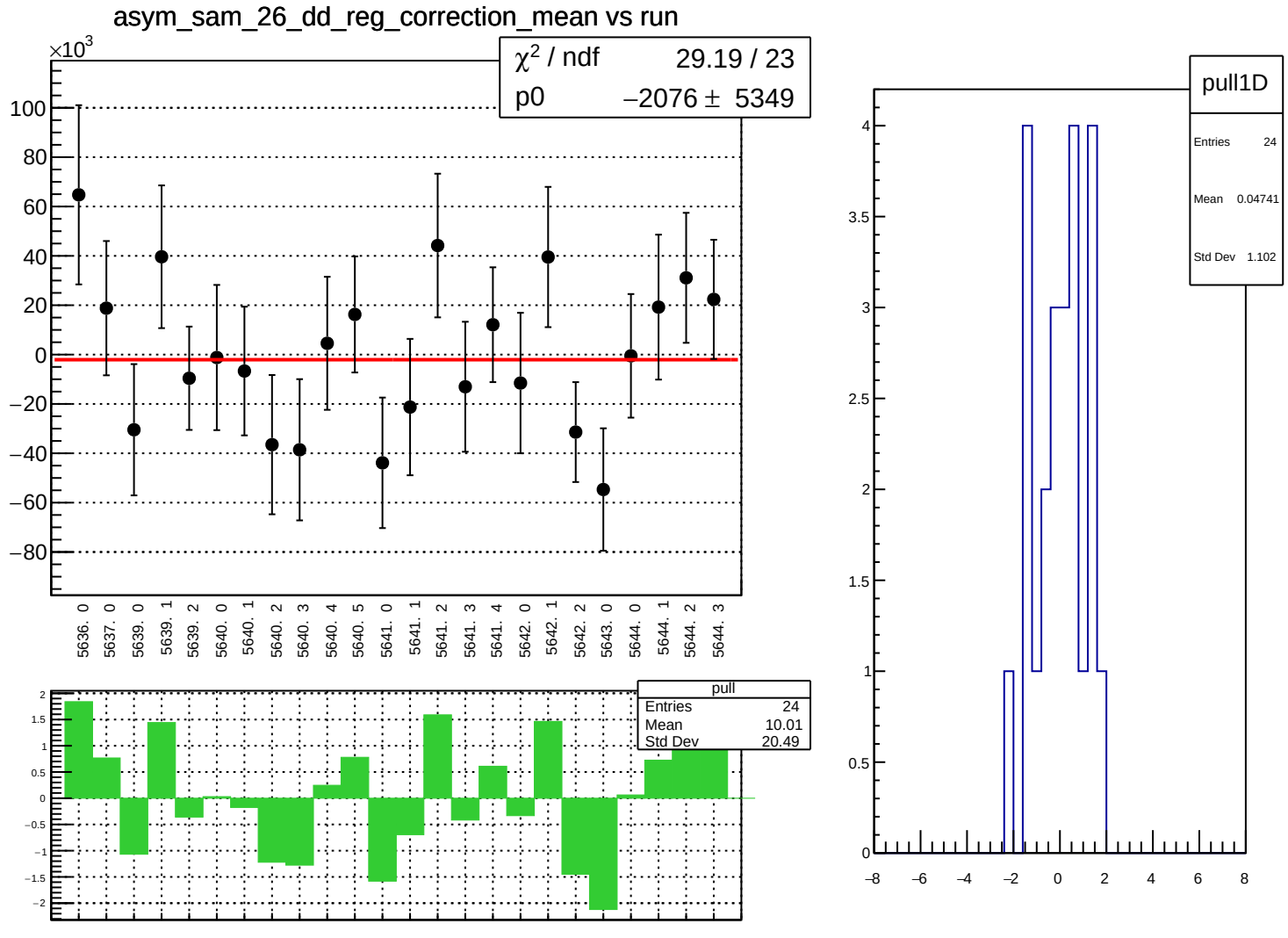

pull1D
Entries 24
Mean 0.1029
Std Dev 1.029
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

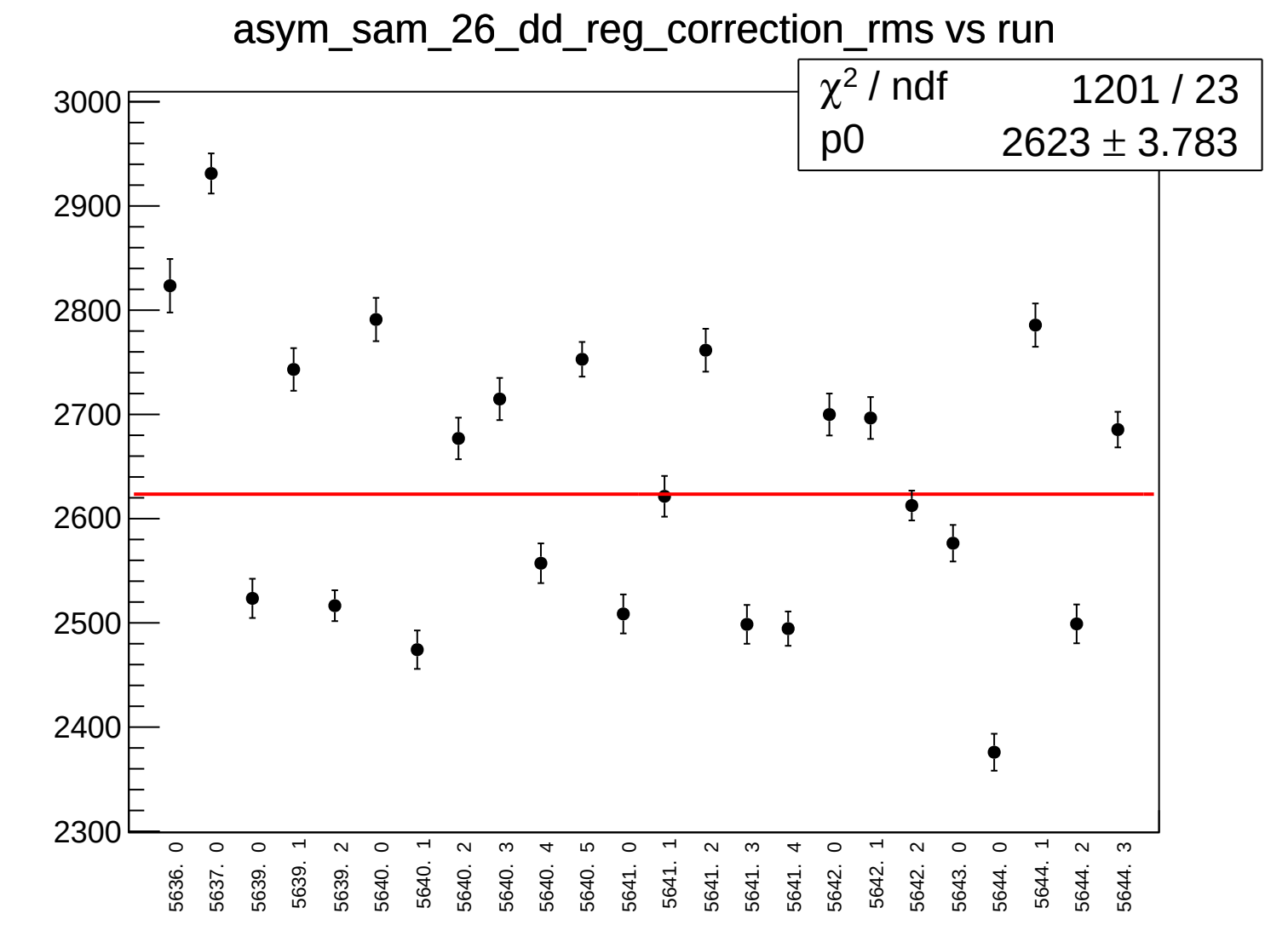

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.143e+05 / 23
p0 1.411e−11 ± 2.326e−14
0.1
0.08
0.06
0.04
0.02
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

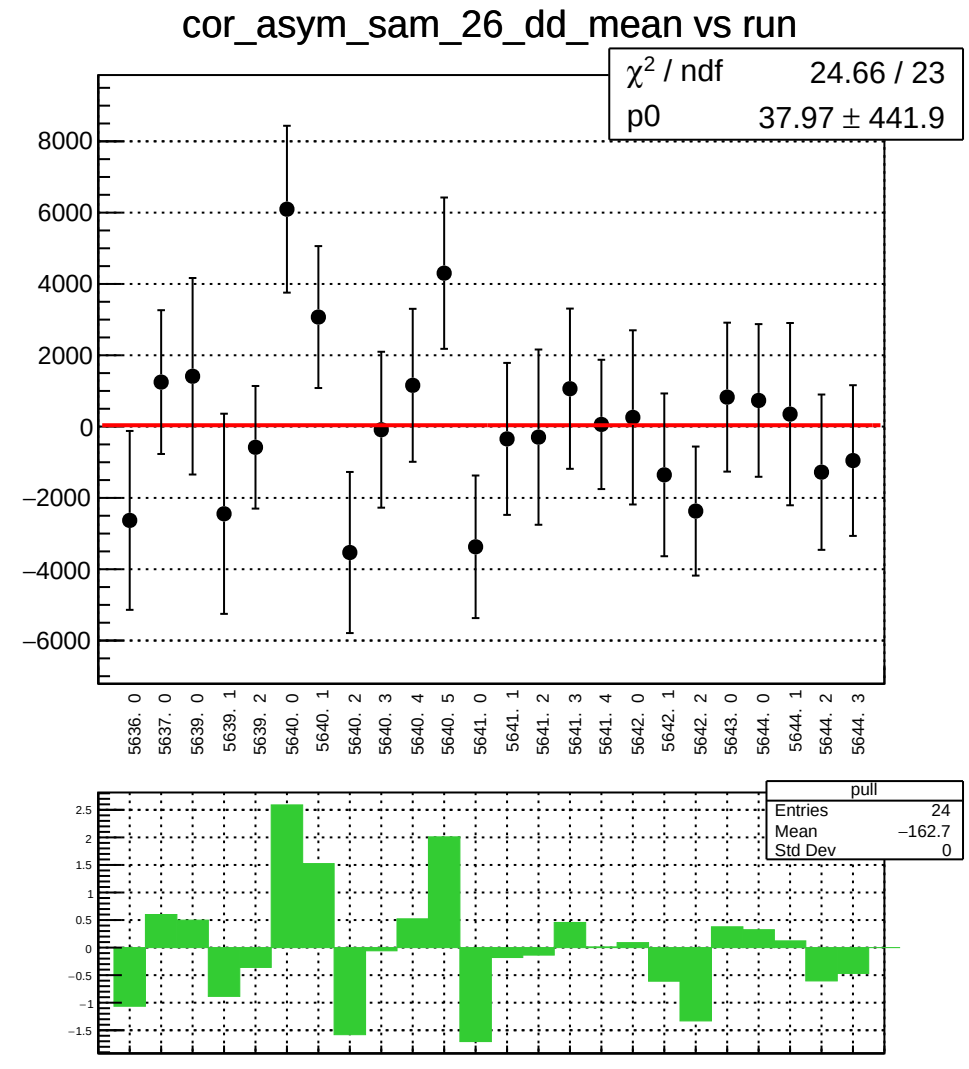

reg_asym_sam_26_dd_mean vs run
χ² / ndf 24.66 / 23
p0 37.97 ± 441.9
8000
6000
4000
2000
0
−2000
−4000
−6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −162.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

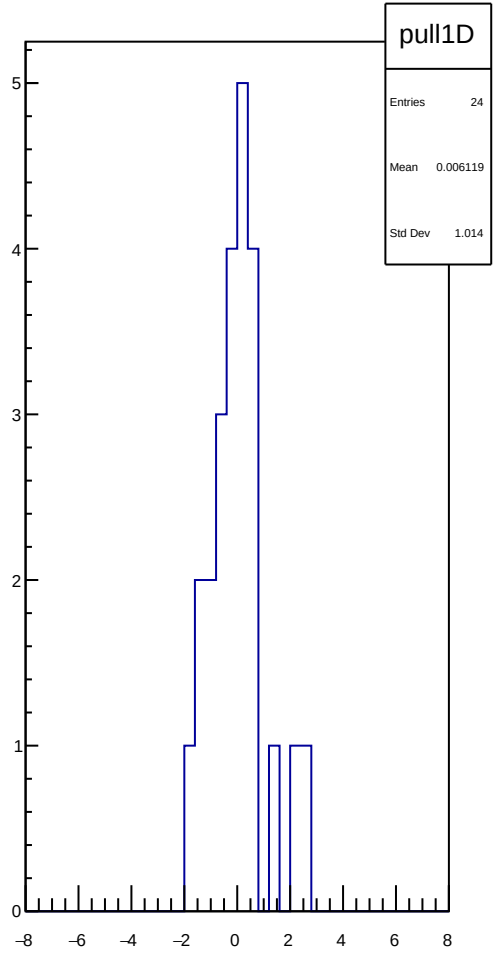

pull1D
Entries 24
Mean 0.00612
Std Dev 1.014
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

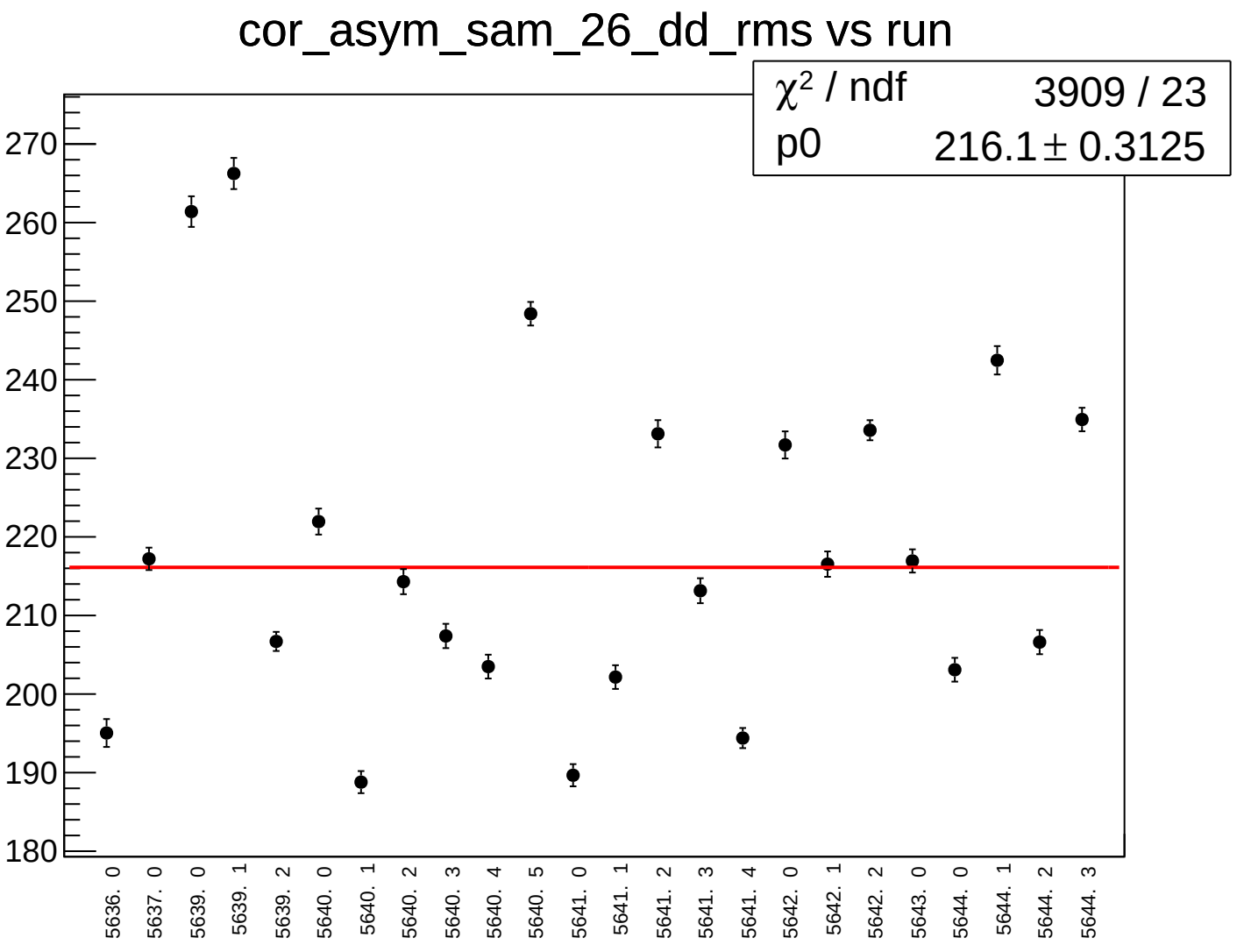

reg_asym_sam_26_dd_rms vs run
χ² / ndf 3909 / 23
p0 216.1 ± 0.3125
270
260
250
240
230
220
210
200
190
180
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

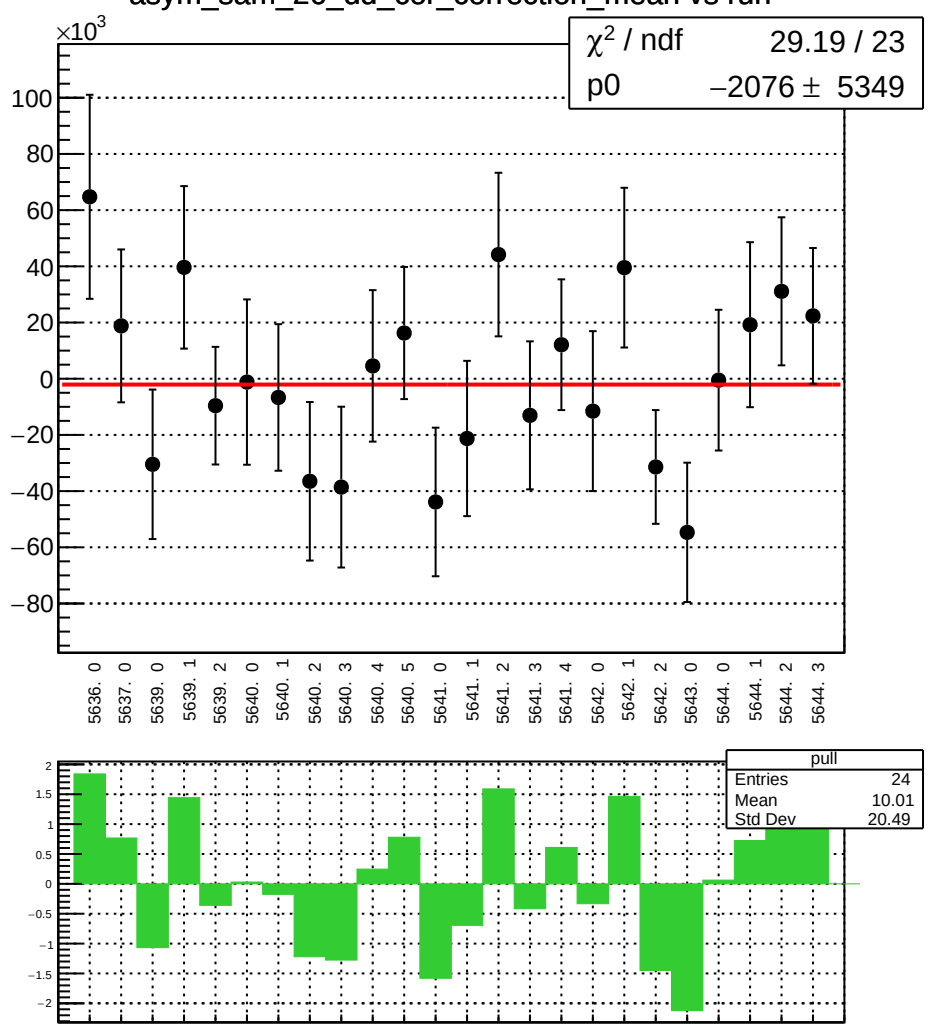

asym_sam_26_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 29.19 / 23
p0 −2076 ± 5349
100
80
60
40
20
0
−20
−40
−60
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 10.01
Std Dev 20.49
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.04741
Std Dev 1.102
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

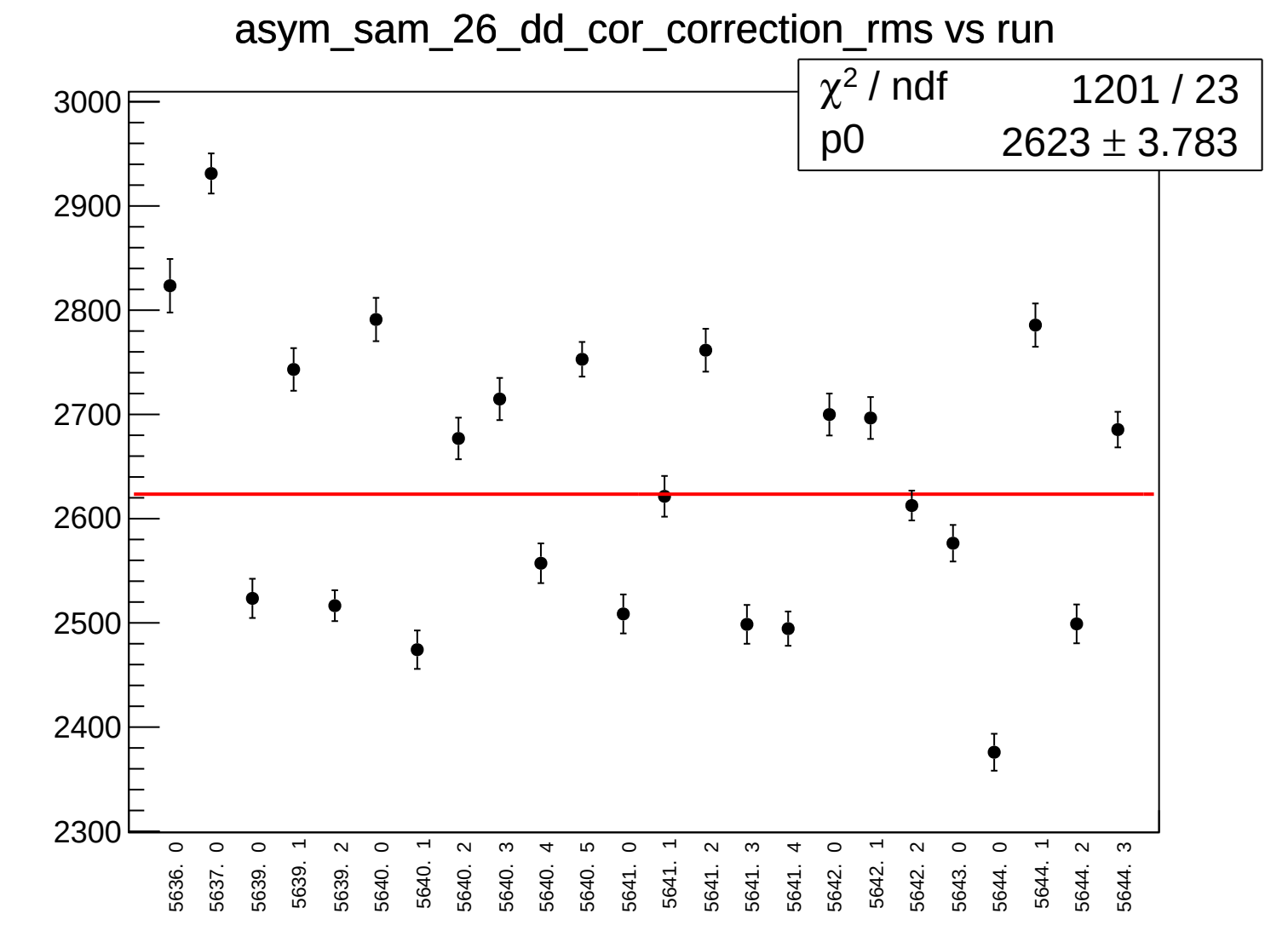

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 1201 / 23
p0 2623 ± 3.783
3000
2900
2800
2700
2600
2500
2400
2300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

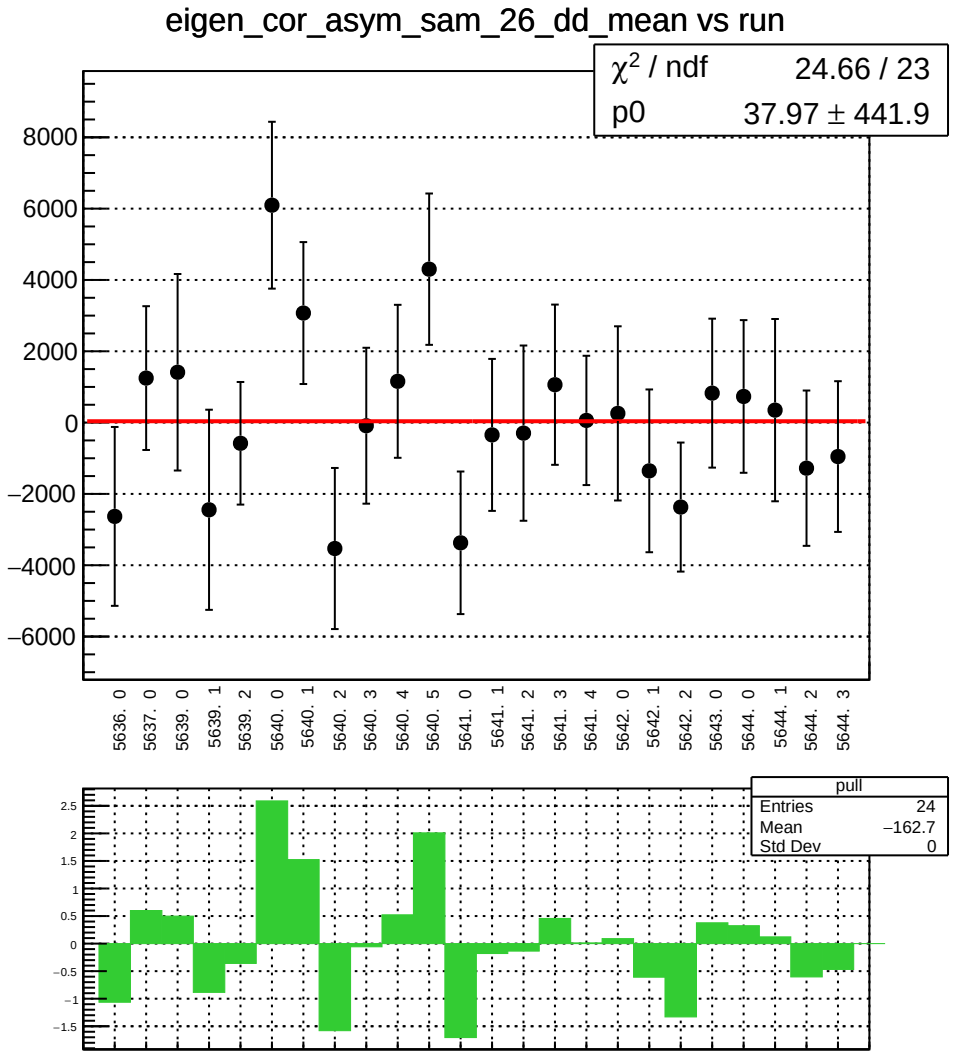

cor_asym_sam_26_dd_mean vs run
χ² / ndf 24.66 / 23
p0 37.97 ± 441.9
8000
6000
4000
2000
0
−2000
−4000
−6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −162.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

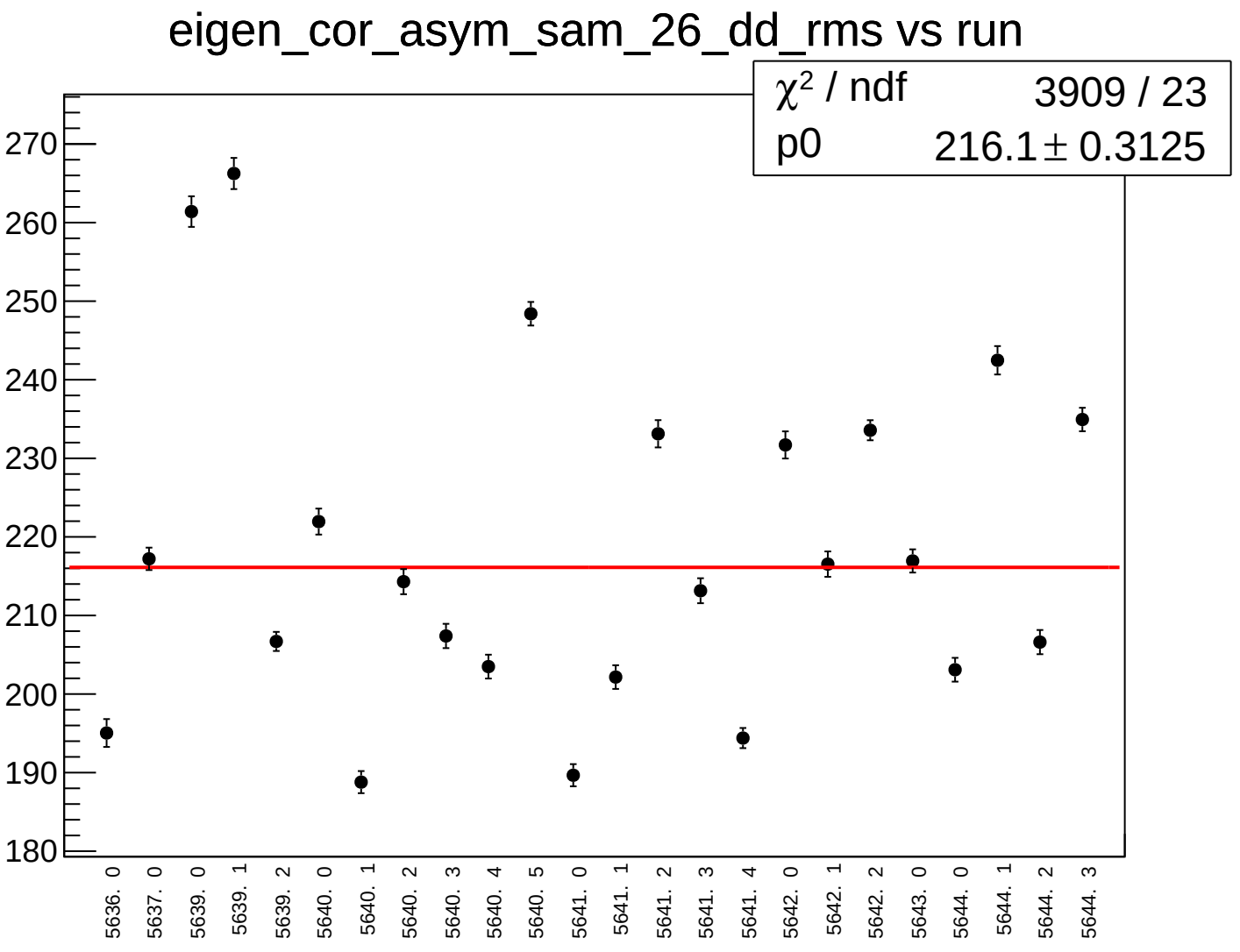

pull1D
Entries 24
Mean 0.006119
Std Dev 1.014
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

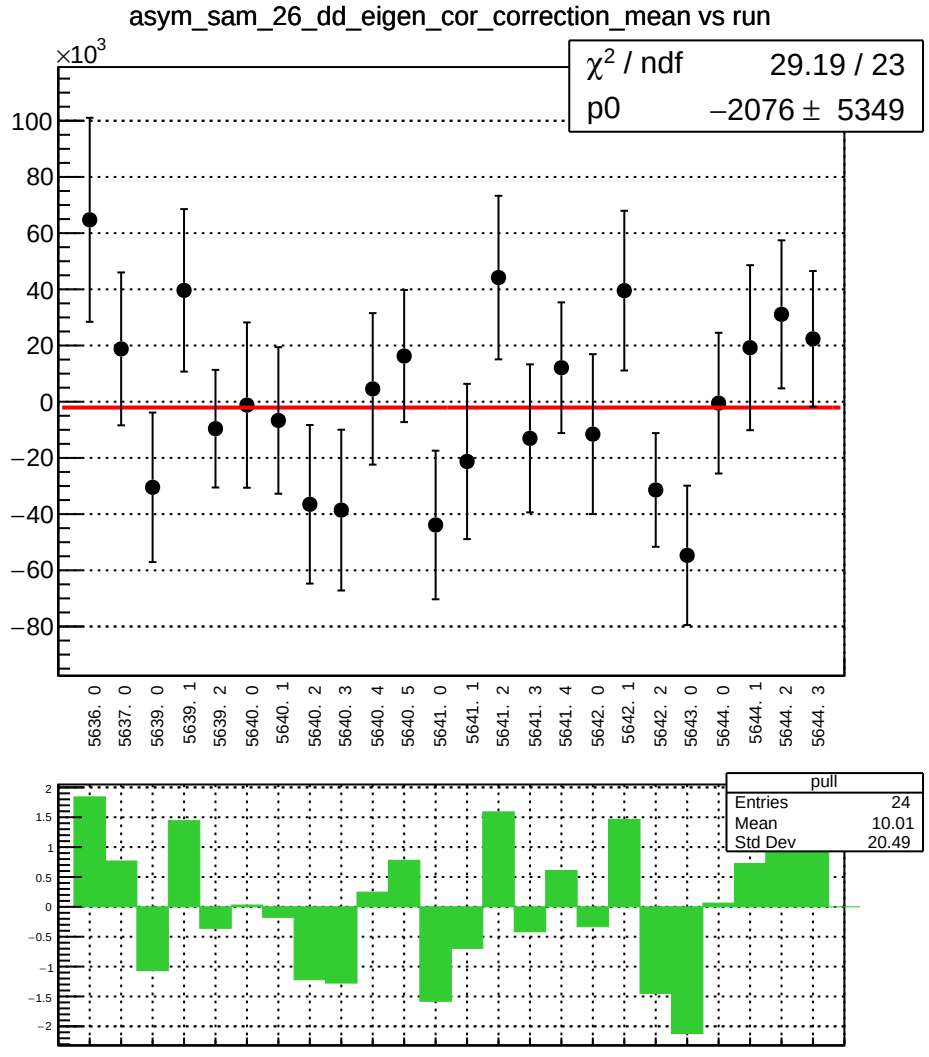

cor_asym_sam_26_dd_rms vs run
χ² / ndf 3909 / 23
p0 216.1 ± 0.3125
270
260
250
240
230
220
210
200
190
180
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

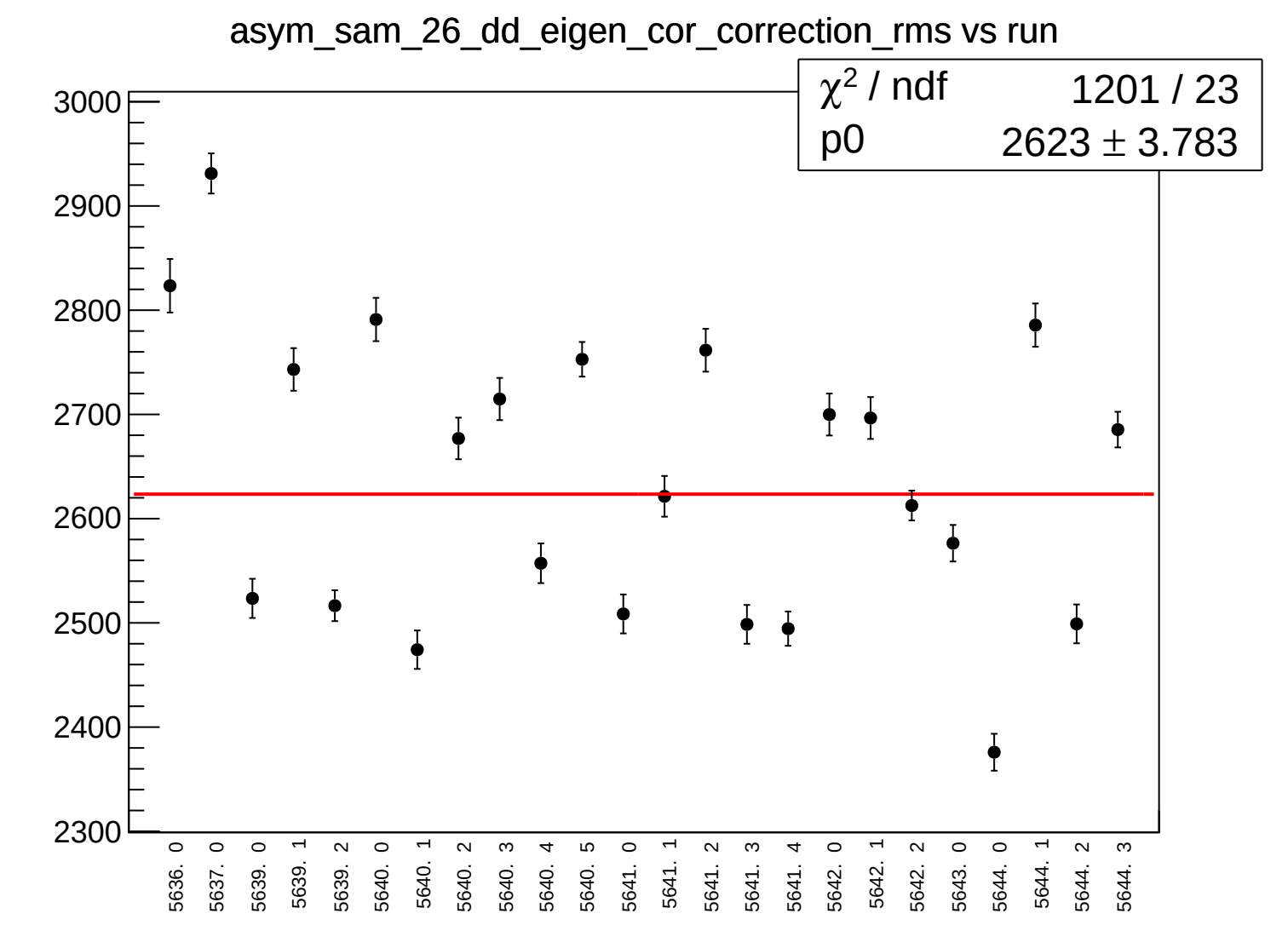

asym_sam_26_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 29.19 / 23
p0 −2076 ± 5349
100
80
60
40
20
0
−20
−40
−60
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 10.01
Std Dev 20.49
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.04741
Std Dev 1.102
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

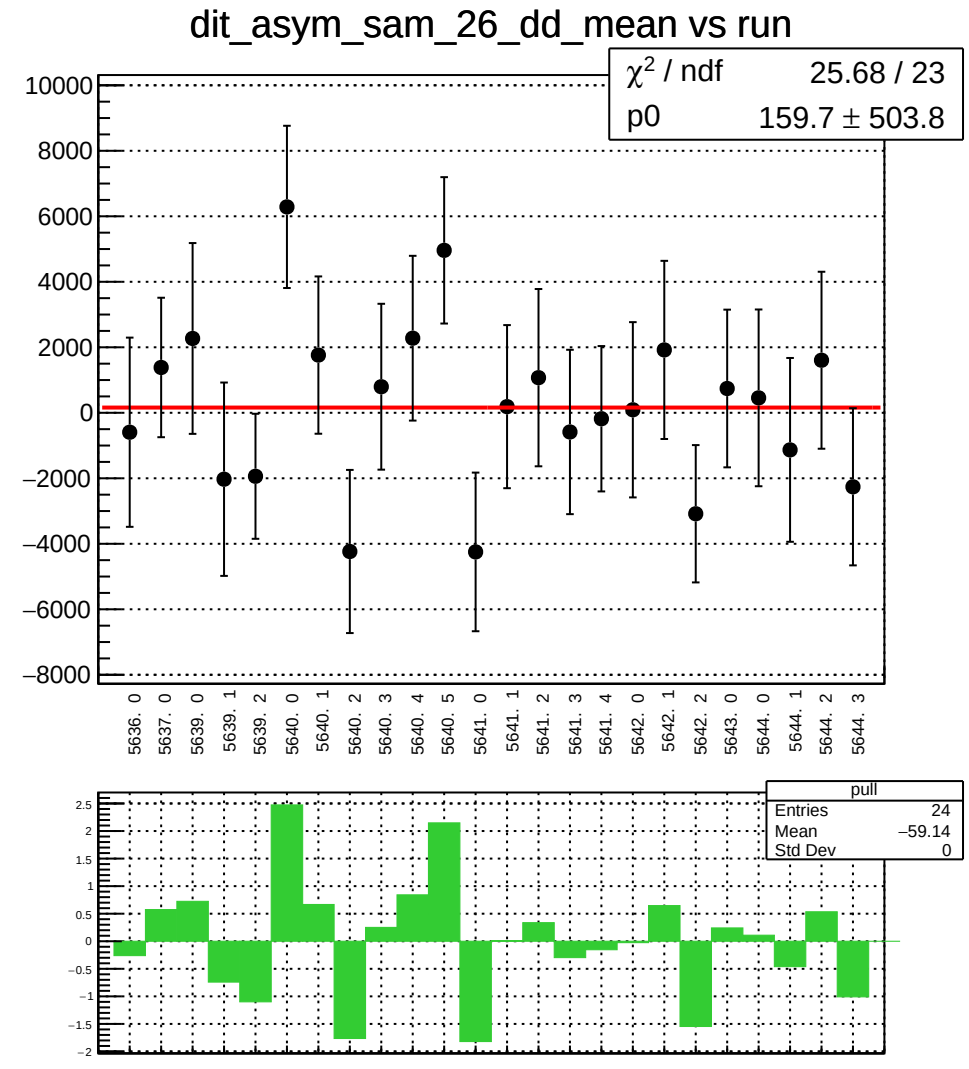

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 1201 / 23
p0 2623 ± 3.783
3000
2900
2800
2700
2600
2500
2400
2300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

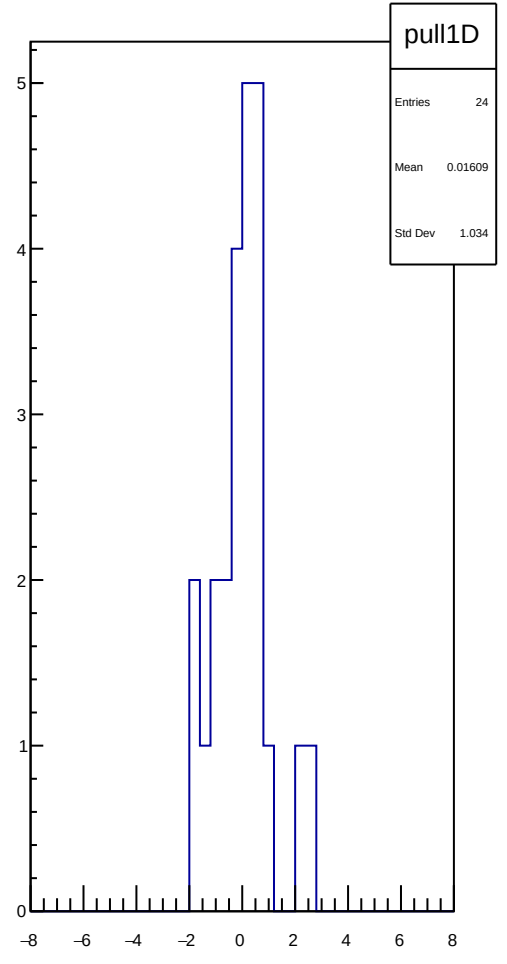

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 24.66 / 23
p0 37.97 ± 441.9
8000
6000
4000
2000
0
−2000
−4000
−6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −162.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.006119
Std Dev 1.014
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

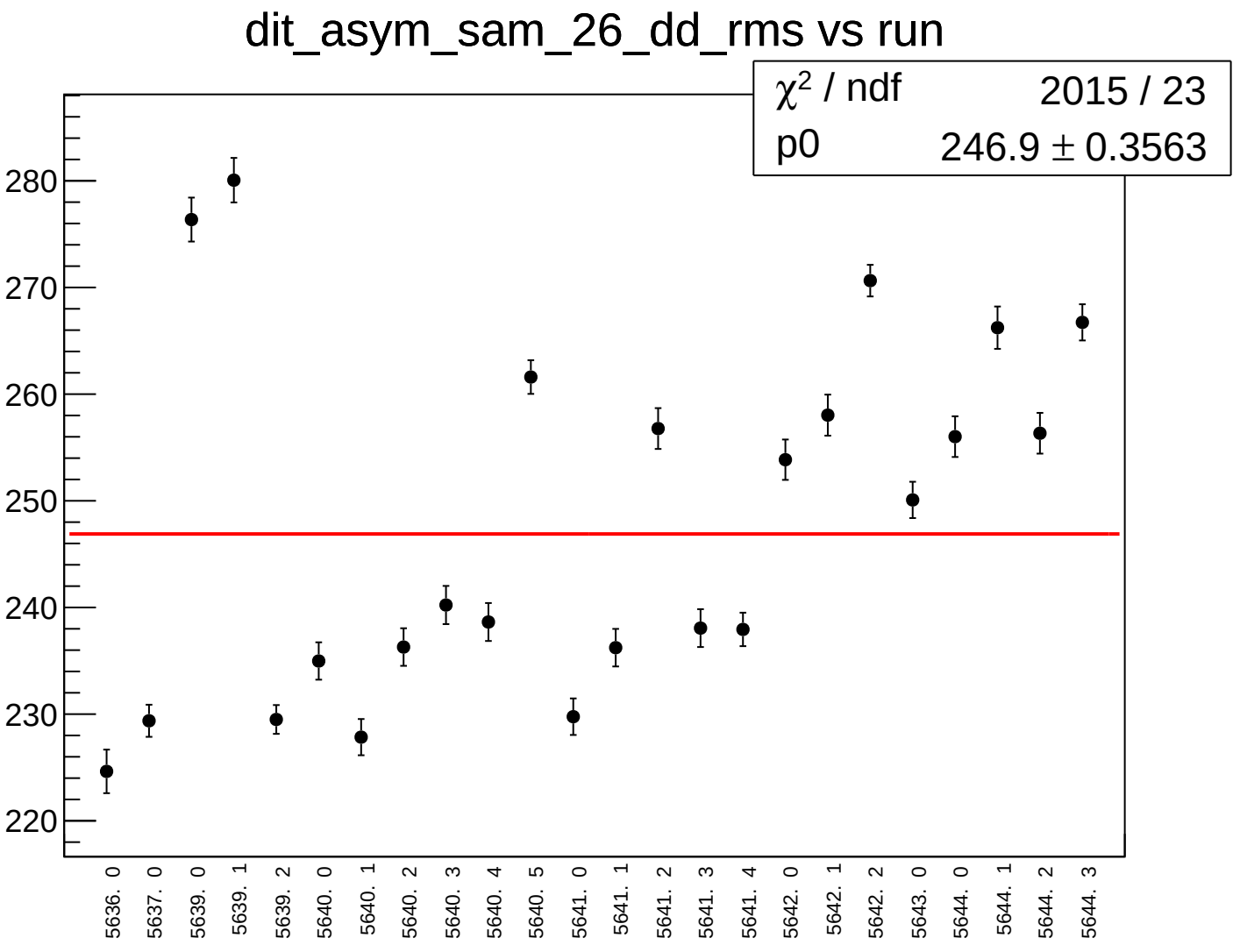

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 3909 / 23
p0 216.1 ± 0.3125
270
260
250
240
230
220
210
200
190
180
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

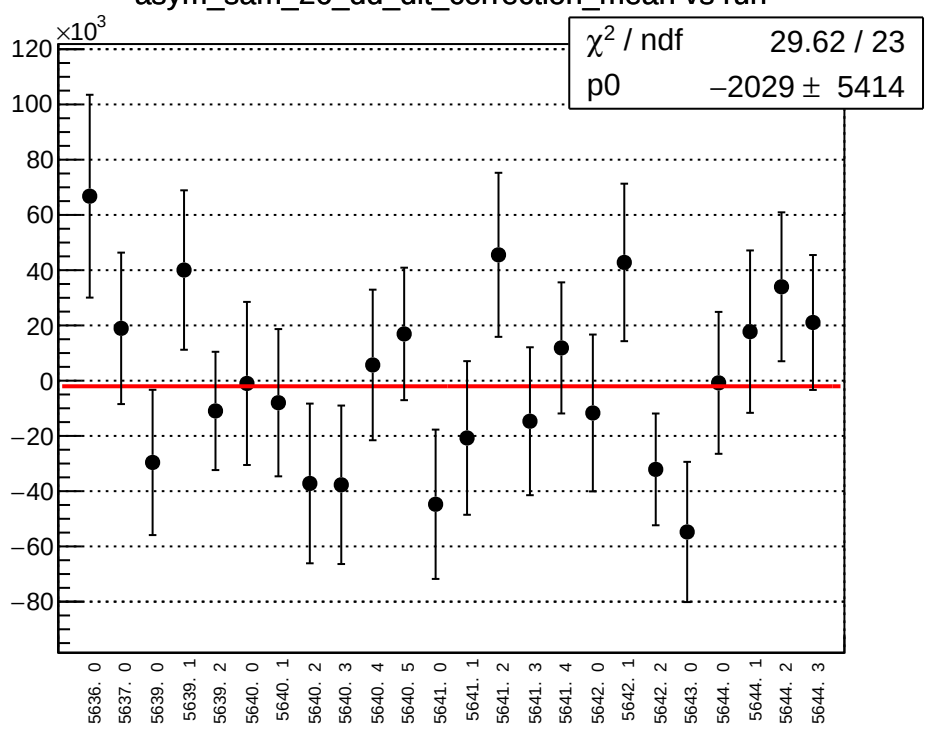

asym_sam_26_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 29.19 / 23
p0 −2076 ± 5349
100
80
60
40
20
0
−20
−40
−60
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 10.01
Std Dev 20.49
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.04741
Std Dev 1.102
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

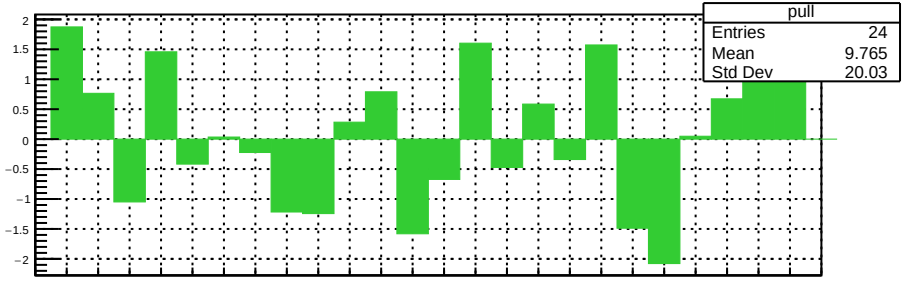

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1201 / 23
p0 2623 ± 3.783
3000
2900
2800
2700
2600
2500
2400
2300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

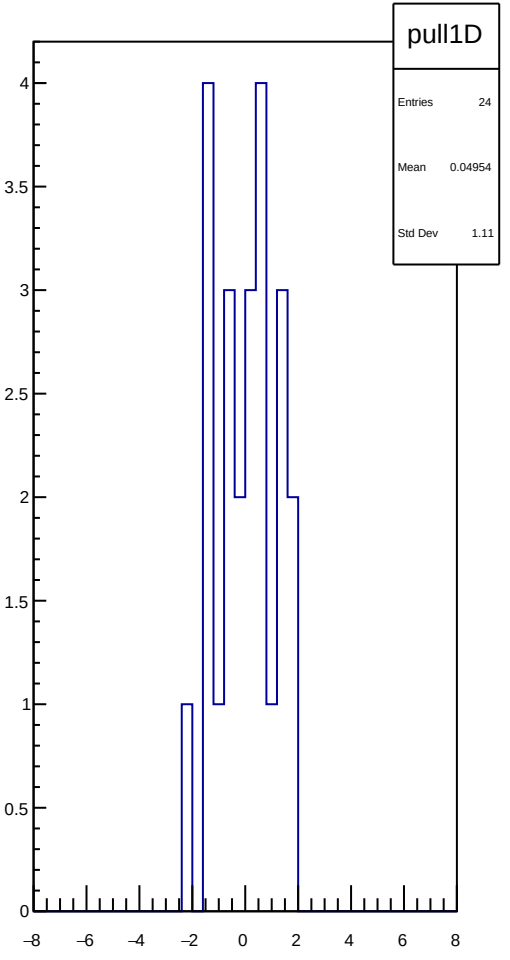

dit_asym_sam_26_dd_mean vs run
χ² / ndf 25.68 / 23
p0 159.7 ± 503.8
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −59.14
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

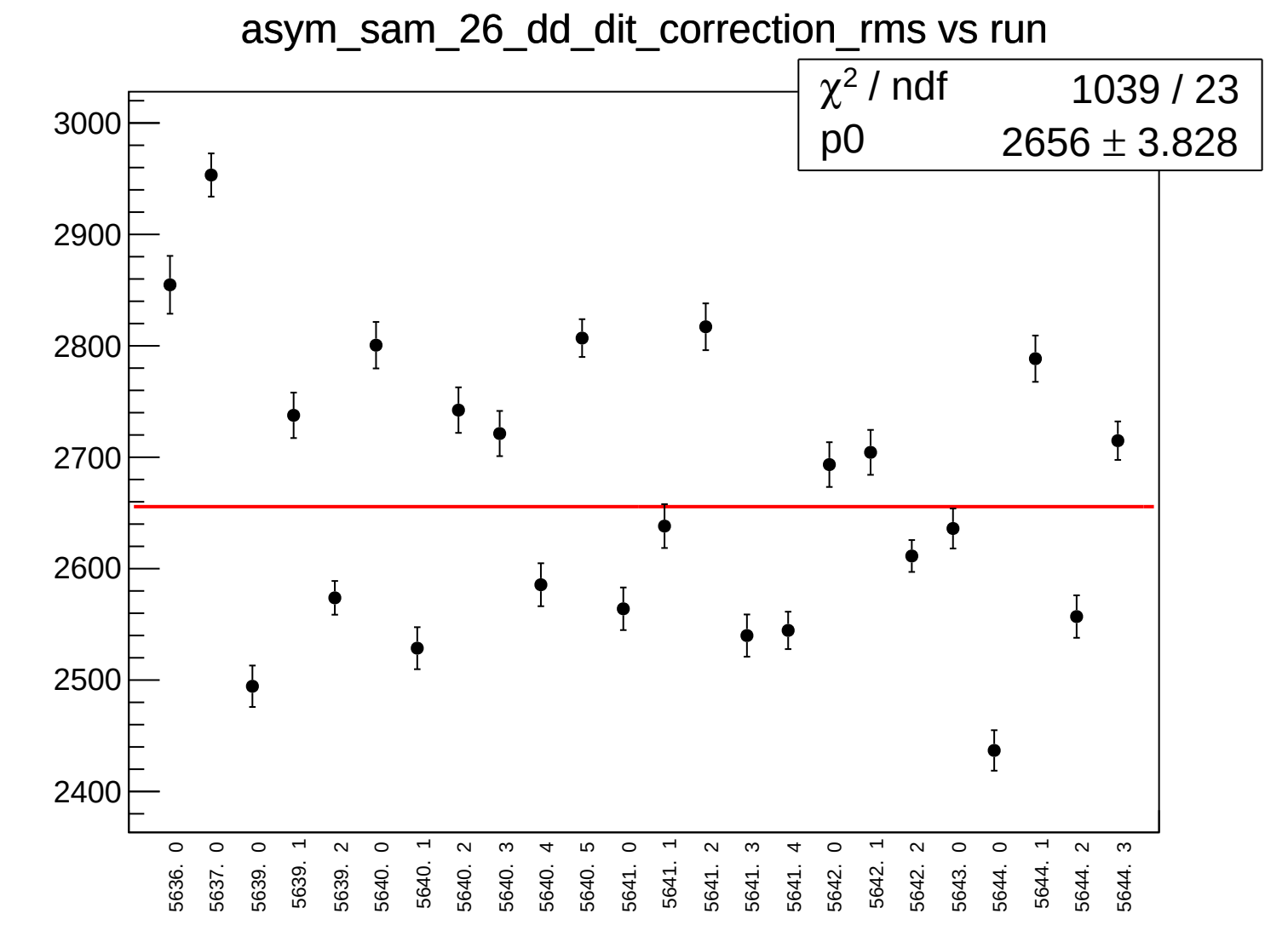

pull1D
Entries 24
Mean 0.01609
Std Dev 1.034
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

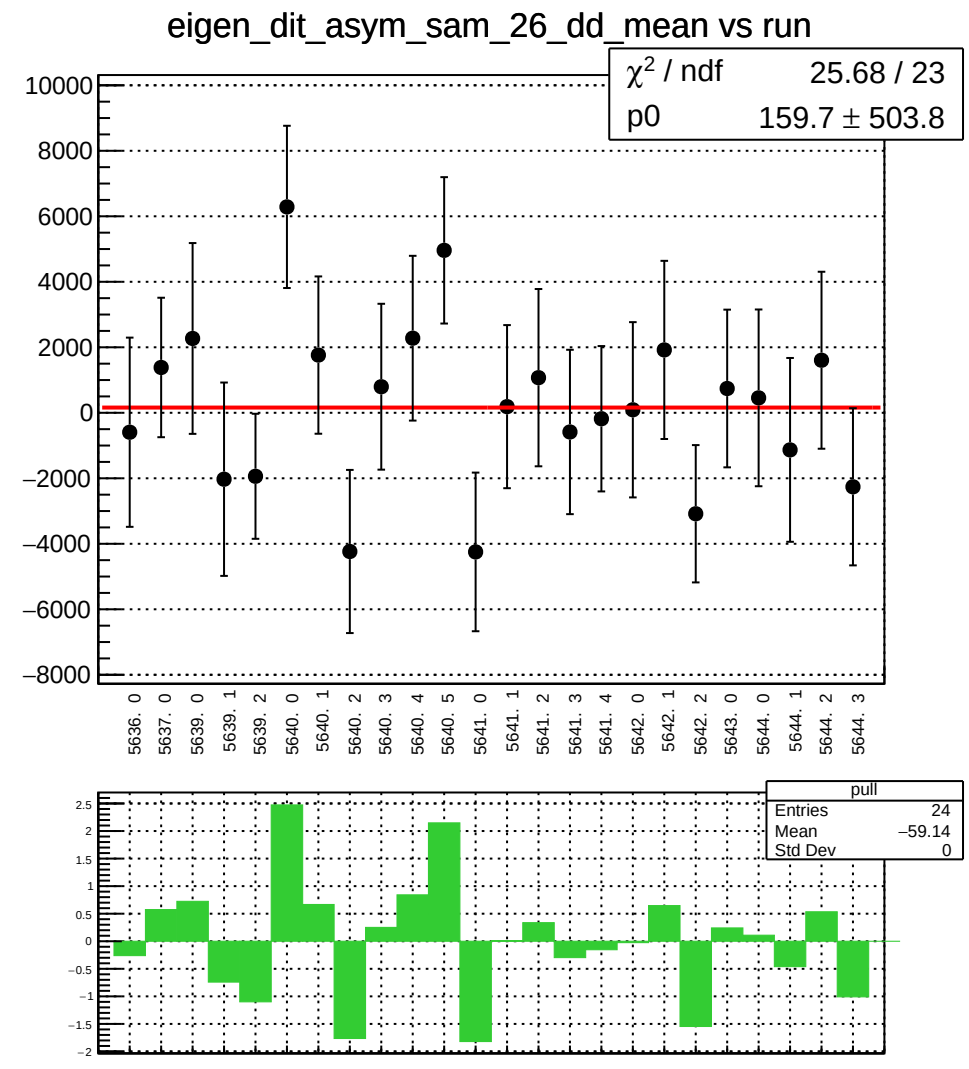

dit_asym_sam_26_dd_rms vs run
χ² / ndf 2015 / 23
p0 246.9 ± 0.3563
280
270
260
250
240
230
220
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

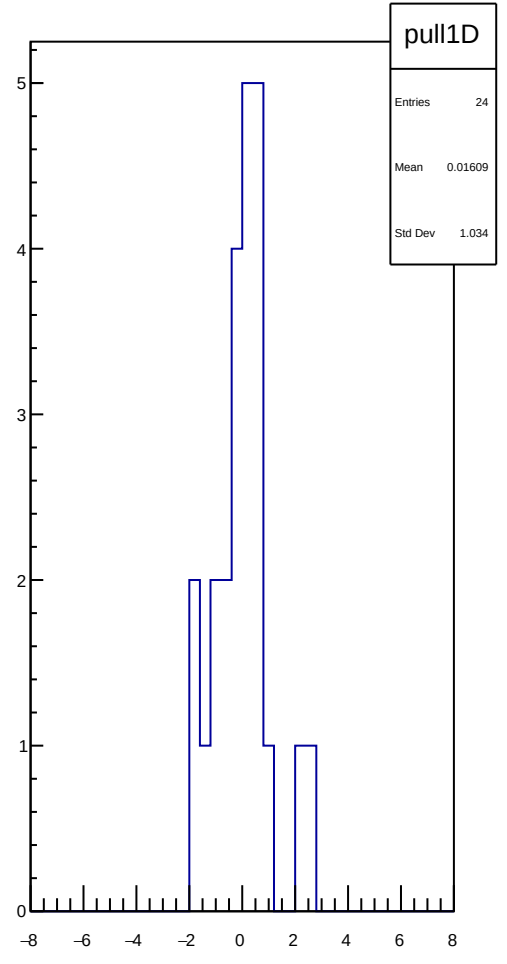

asym_sam_26_dd_dit_correction_mean vs run
×10^3
χ² / ndf 29.62 / 23
p0 −2029 ± 5414
120
100
80
60
40
20
0
−20
−40
−60
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

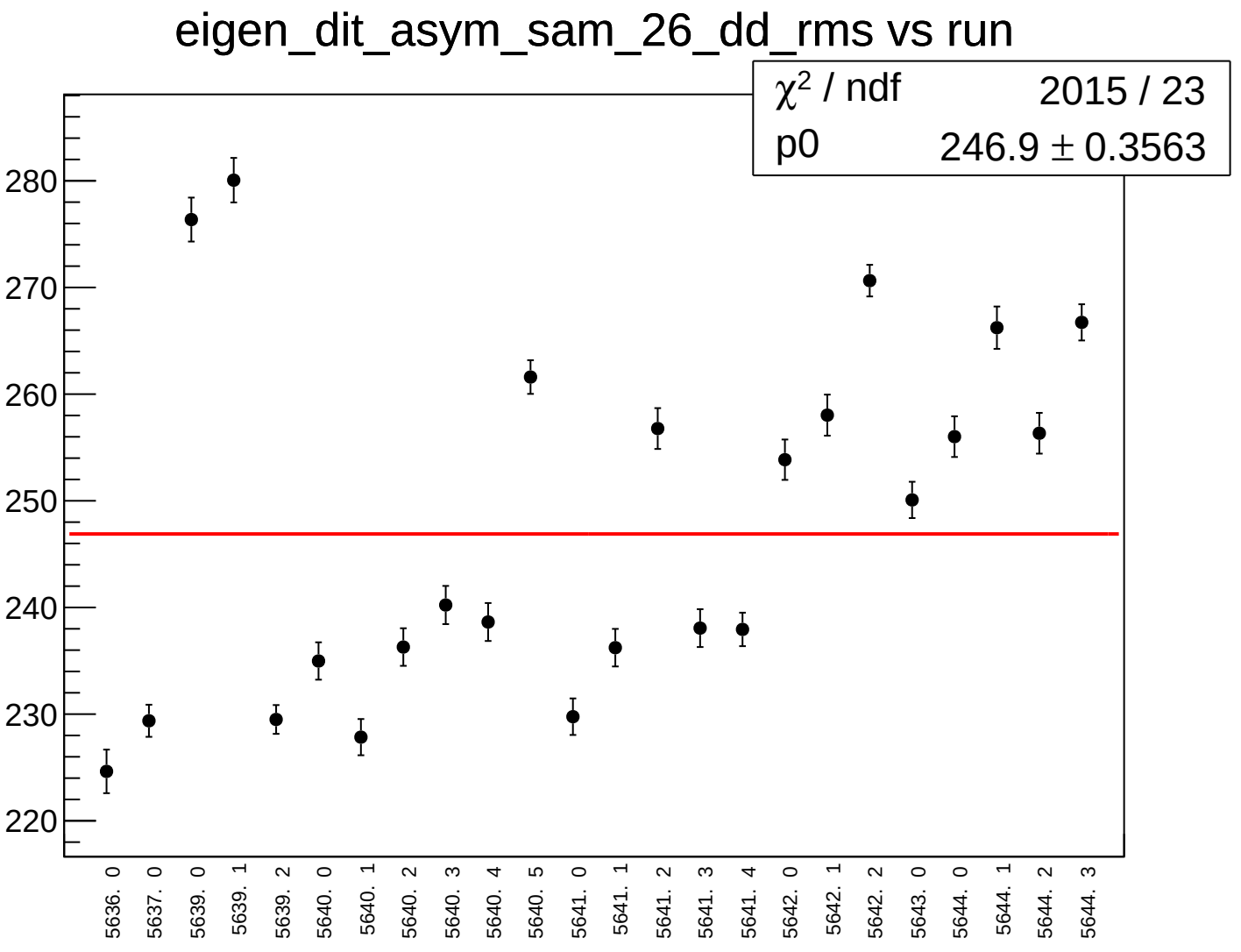

pull
Entries 24
Mean 9.765
Std Dev 20.03
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

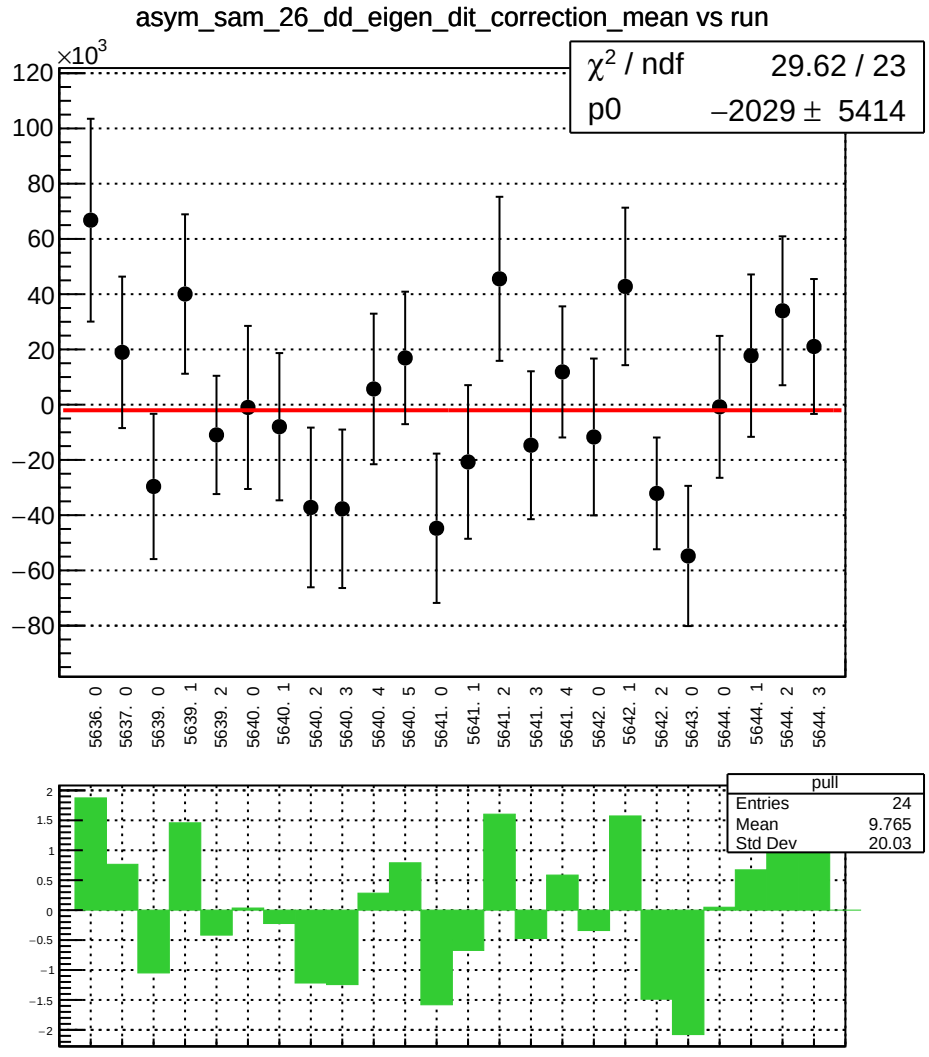

pull1D
Entries 24
Mean 0.04954
Std Dev 1.11
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

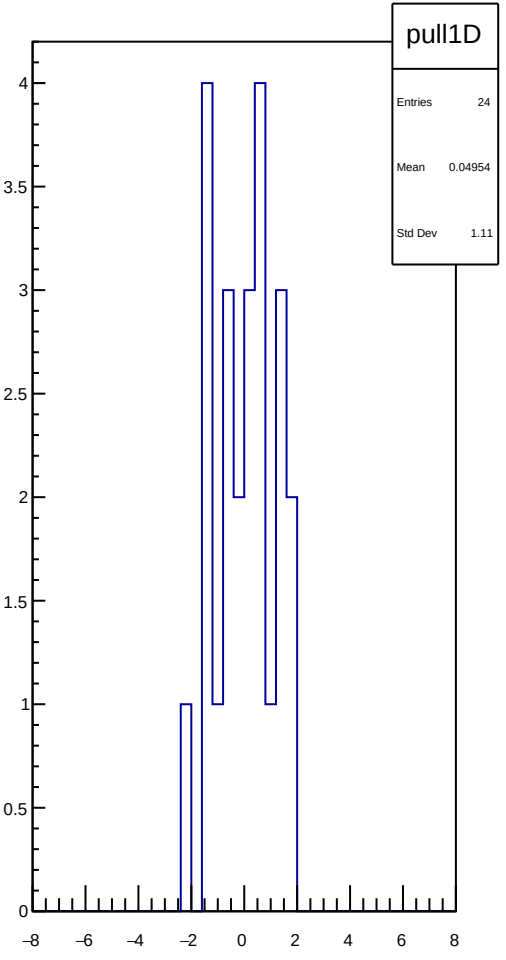

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 1039 / 23
p0 2656 ± 3.828
3000
2900
2800
2700
2600
2500
2400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

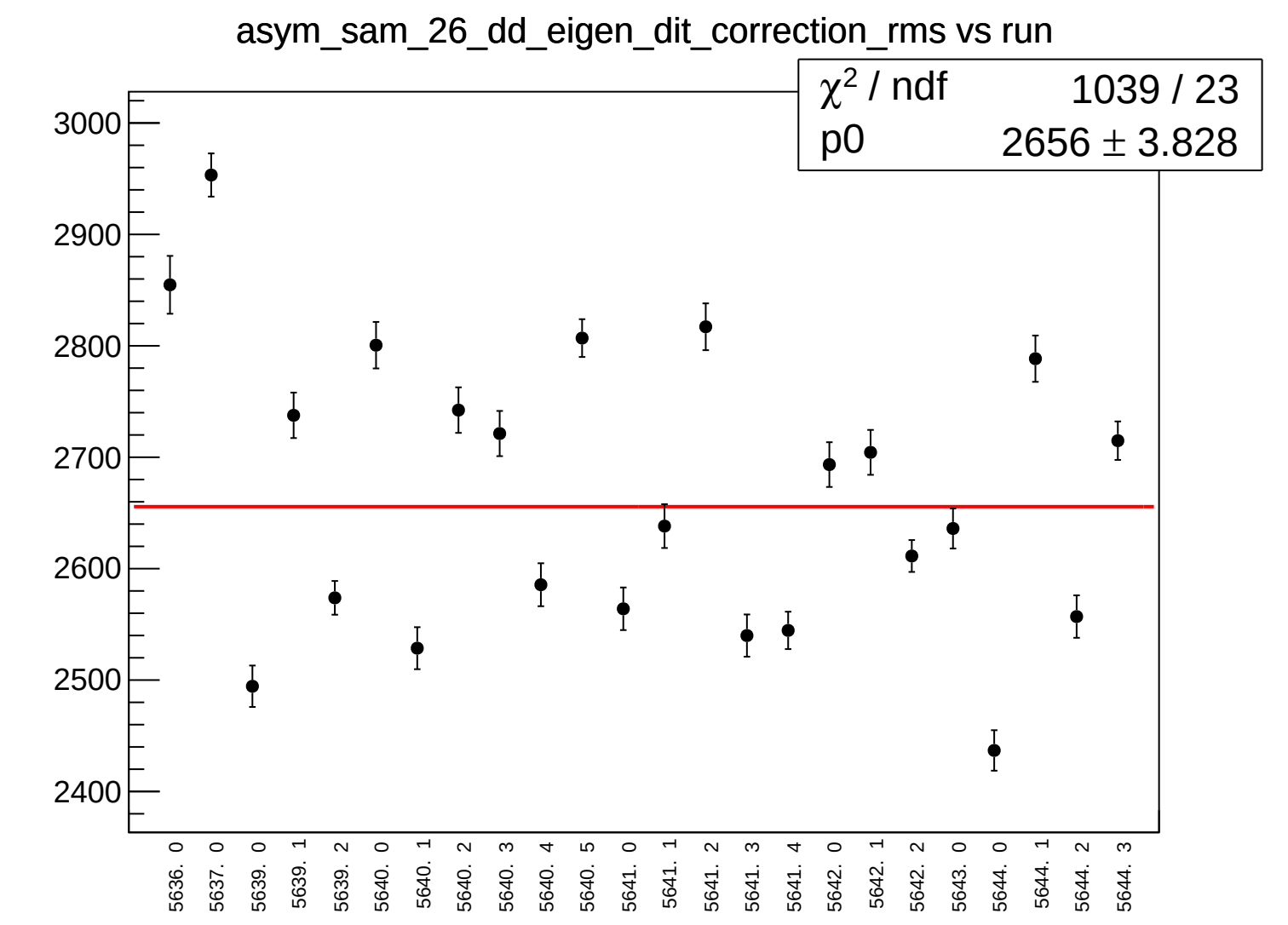

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 25.68 / 23
p0 159.7 ± 503.8
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −59.14
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

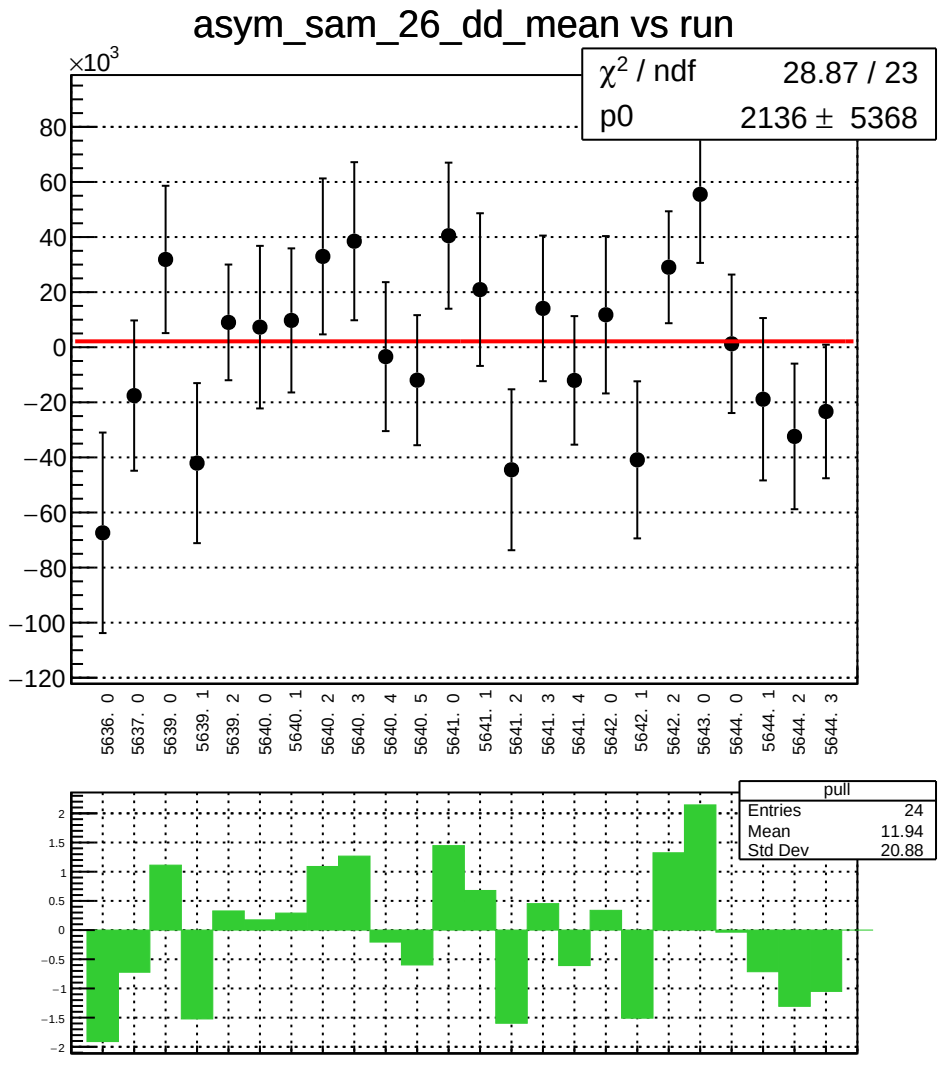

pull1D
Entries 24
Mean 0.01609
Std Dev 1.034
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

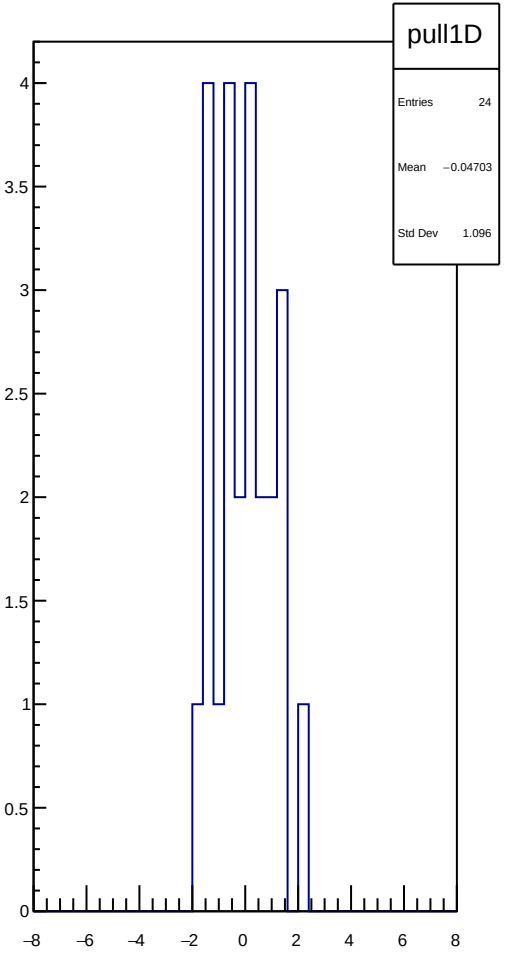

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 2015 / 23
p0 246.9 ± 0.3563
280
270
260
250
240
230
220
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

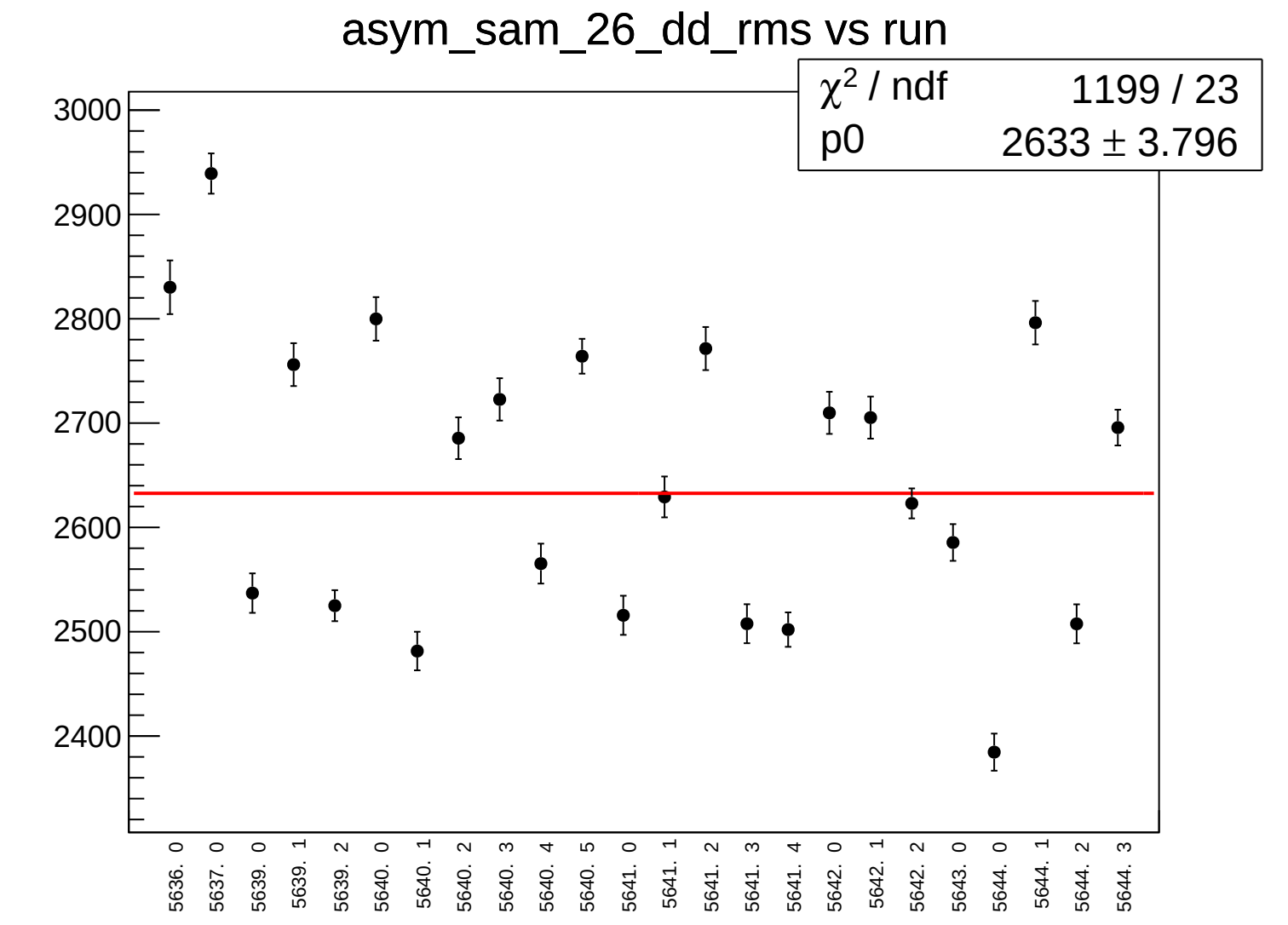

asym_sam_26_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 29.62 / 23
p0 −2029 ± 5414
120
100
80
60
40
20
0
−20
−40
−60
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 9.765
Std Dev 20.03
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

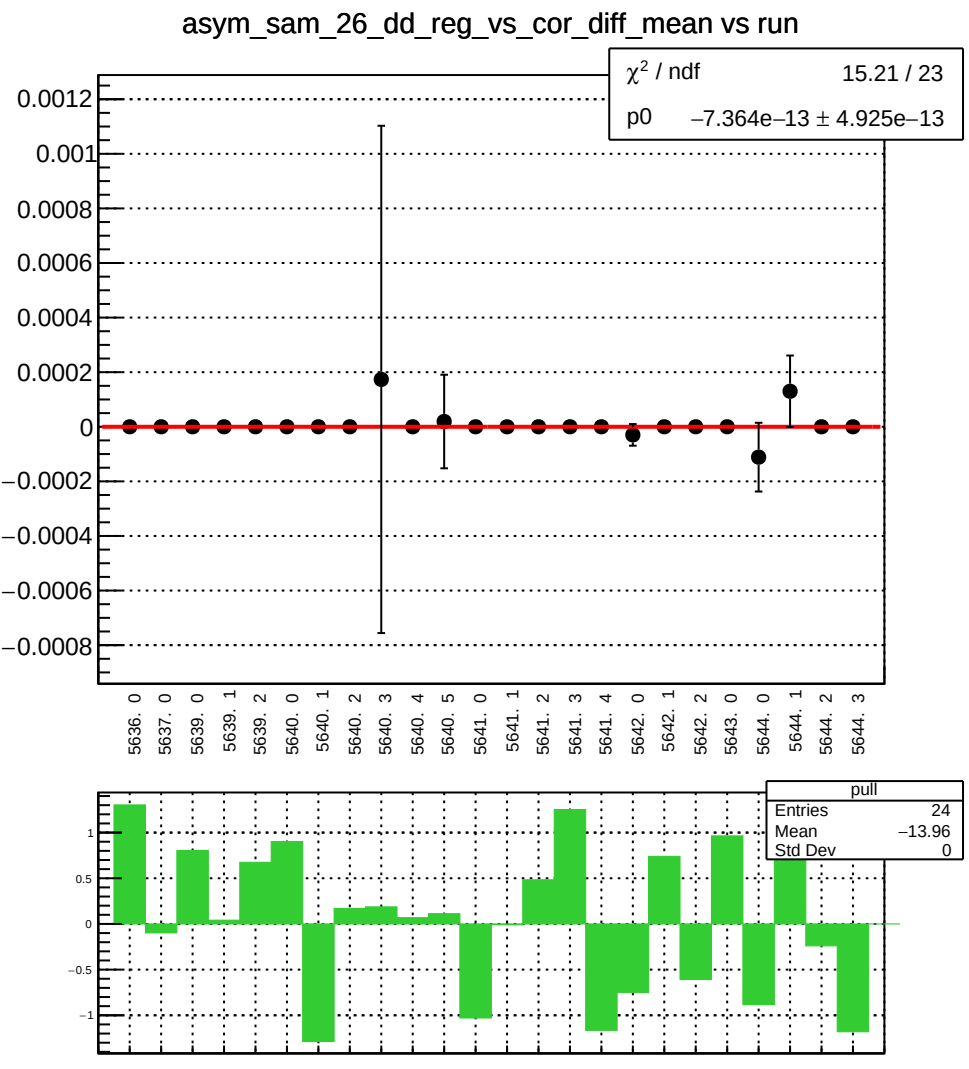

pull1D
Entries 24
Mean 0.04954
Std Dev 1.11
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

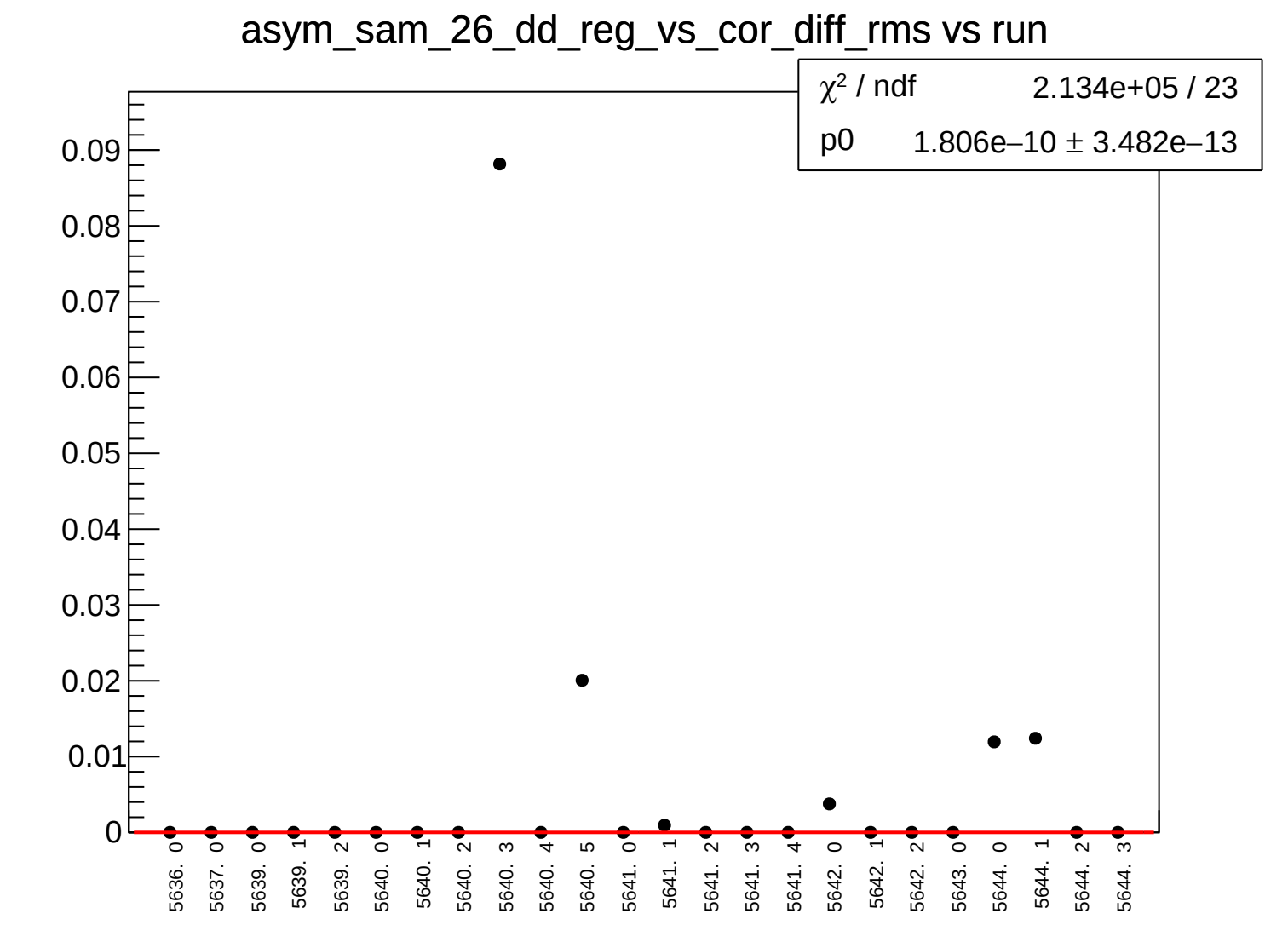

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1039 / 23
p0 2656 ± 3.828
3000
2900
2800
2700
2600
2500
2400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

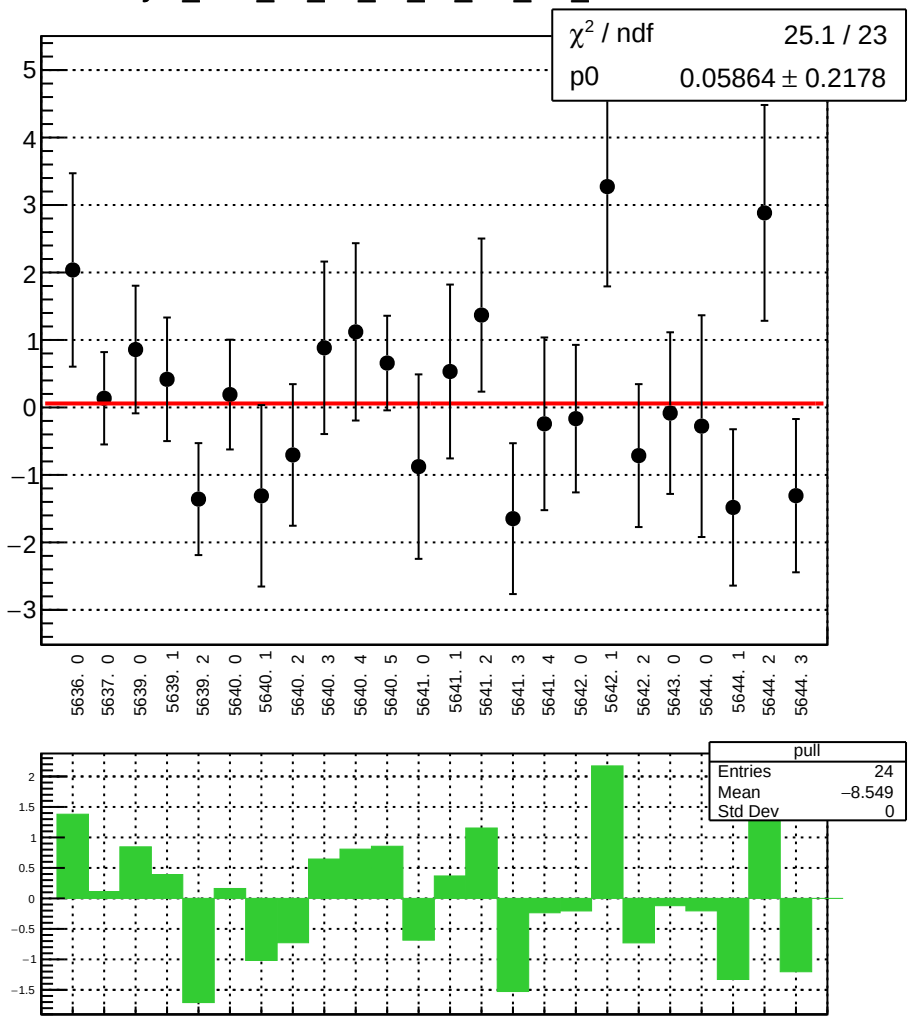

asym_sam_26_dd_mean vs run
×10^3
χ^2 / ndf 28.87 / 23
p0 2136 ± 5368
80
60
40
20
0
−20
−40
−60
−80
−100
−120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 11.94
Std Dev 20.88
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

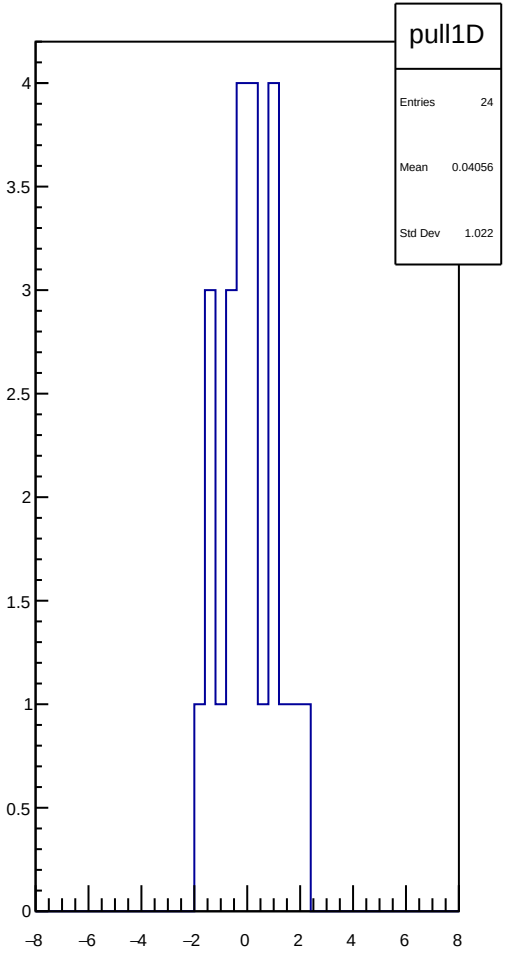

pull1D
Entries 24
Mean −0.04703
Std Dev 1.096
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

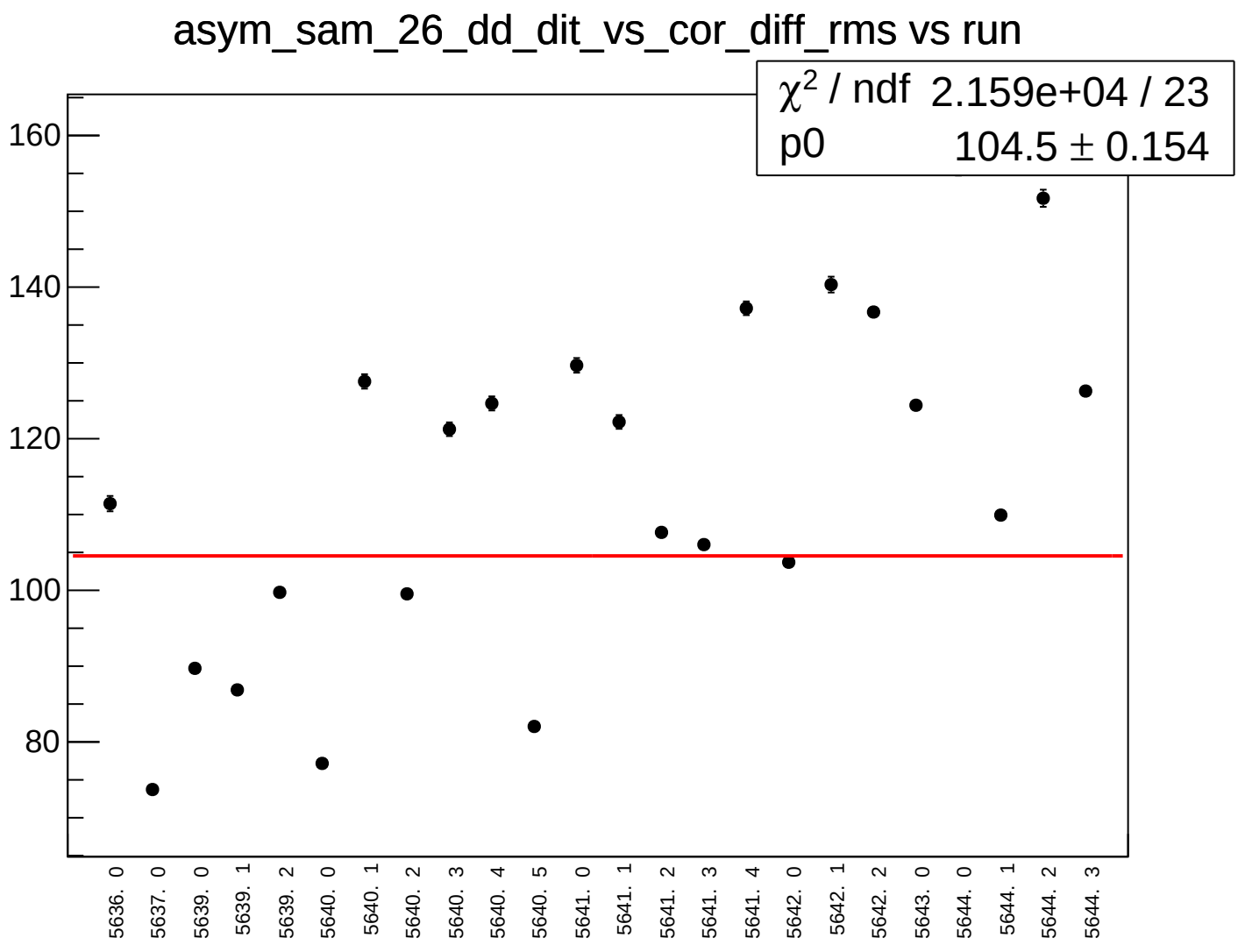

asym_sam_26_dd_rms vs run
χ² / ndf 1199 / 23
p0 2633 ± 3.796
3000
2900
2800
2700
2600
2500
2400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

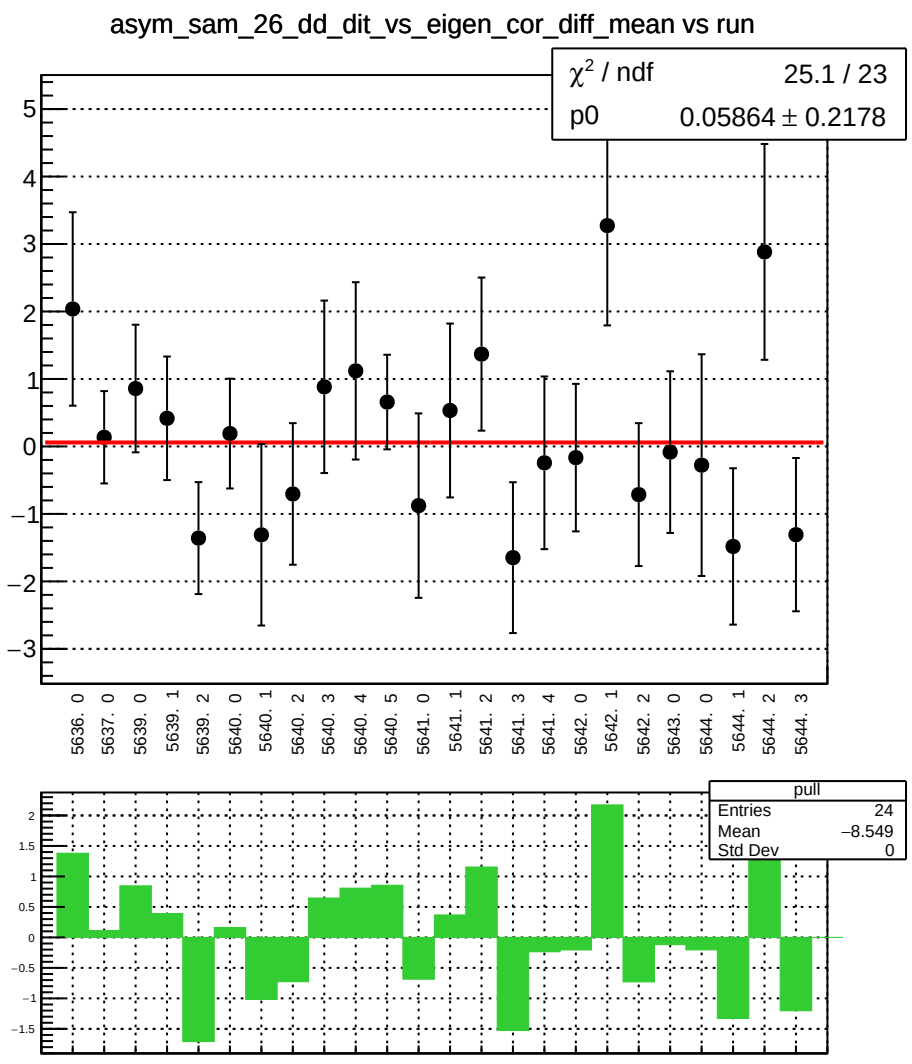

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 15.21 / 23
p0 −7.364e−13 ± 4.925e−13
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −13.96
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.0601
Std Dev 0.7937
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

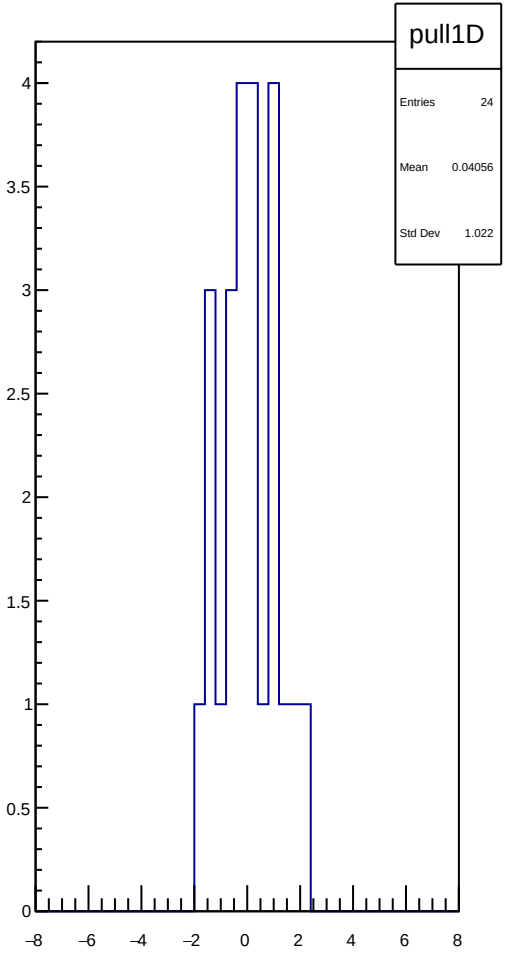

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.134e+05 / 23
p0 1.806e−10 ± 3.482e−13
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

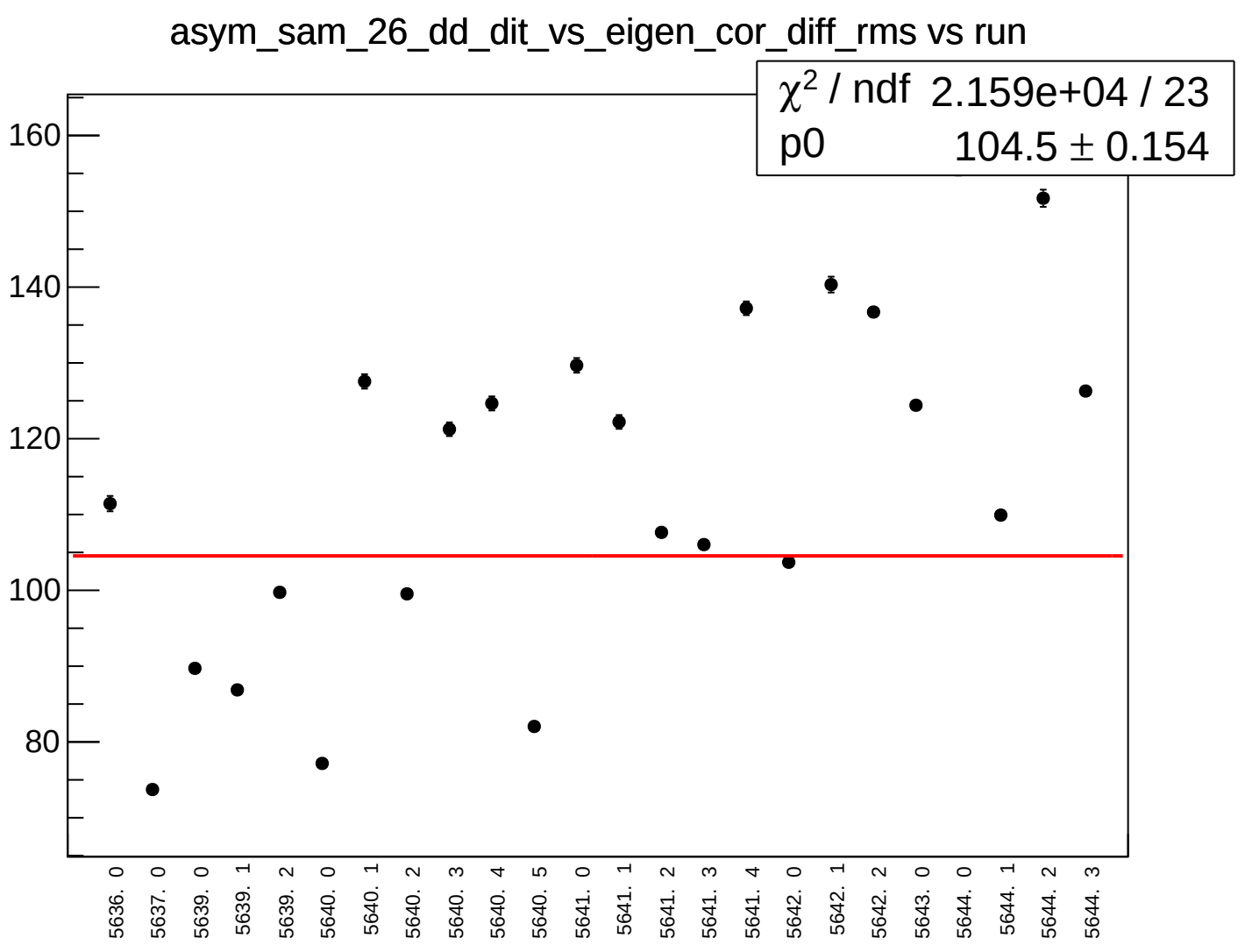

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 25.1 / 23
p0 0.05864 ± 0.2178
pull
Entries 24
Mean −8.549
Std Dev 0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

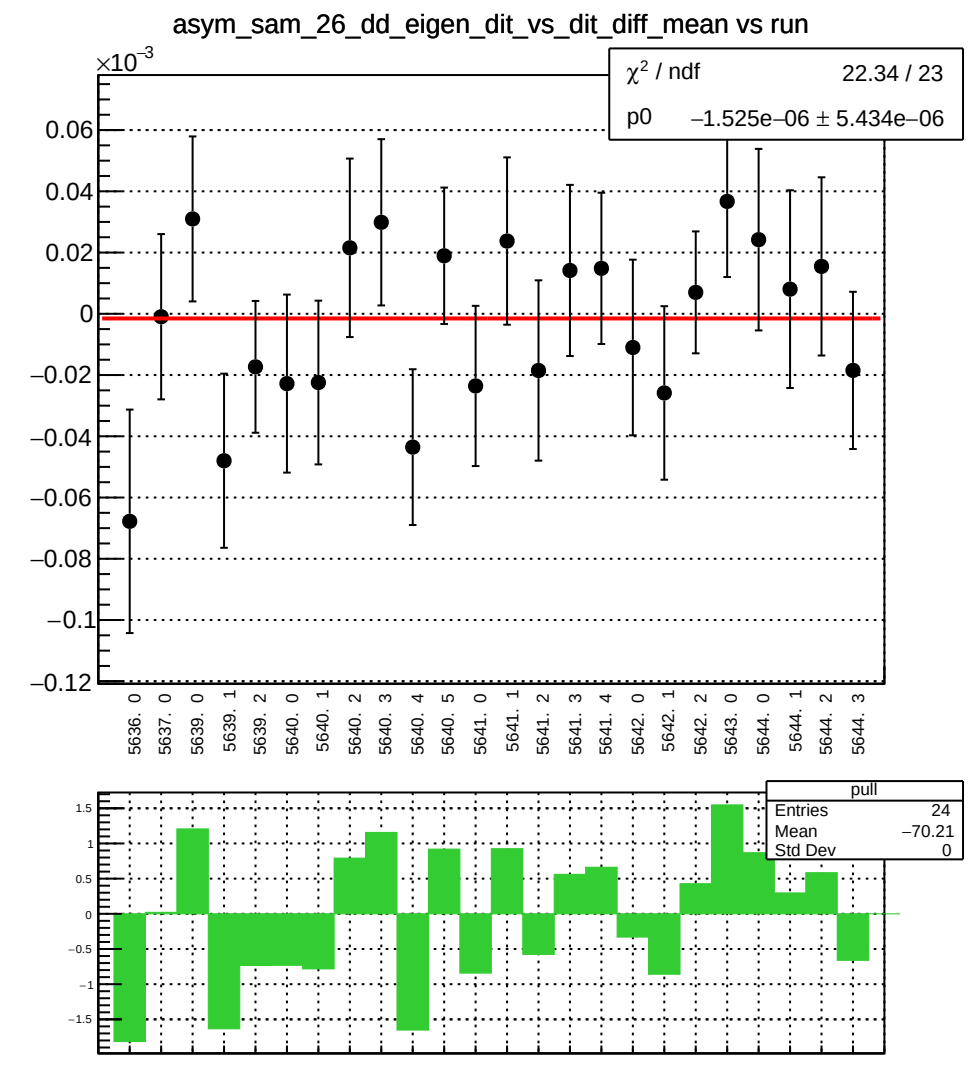

pull1D
Entries 24
Mean 0.04056
Std Dev 1.022

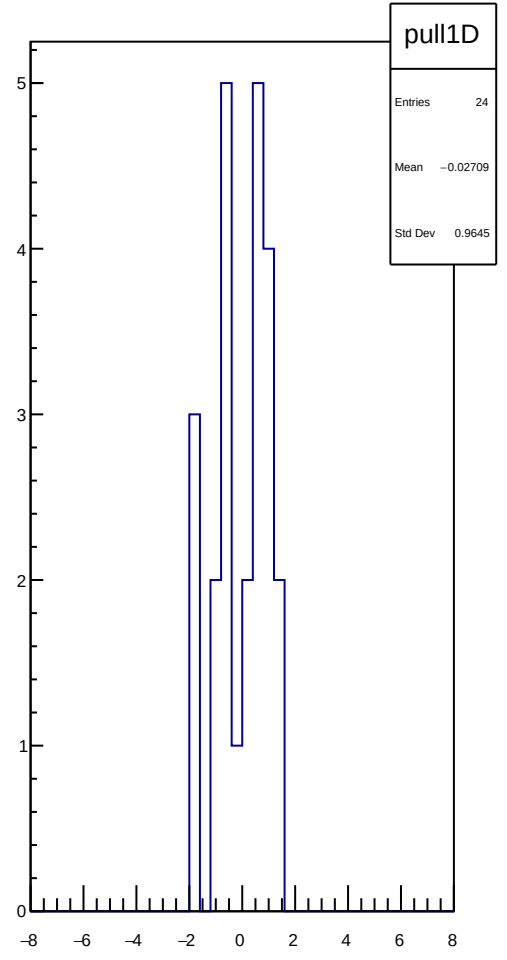

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.159e+04 / 23
p0 104.5 ± 0.154
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

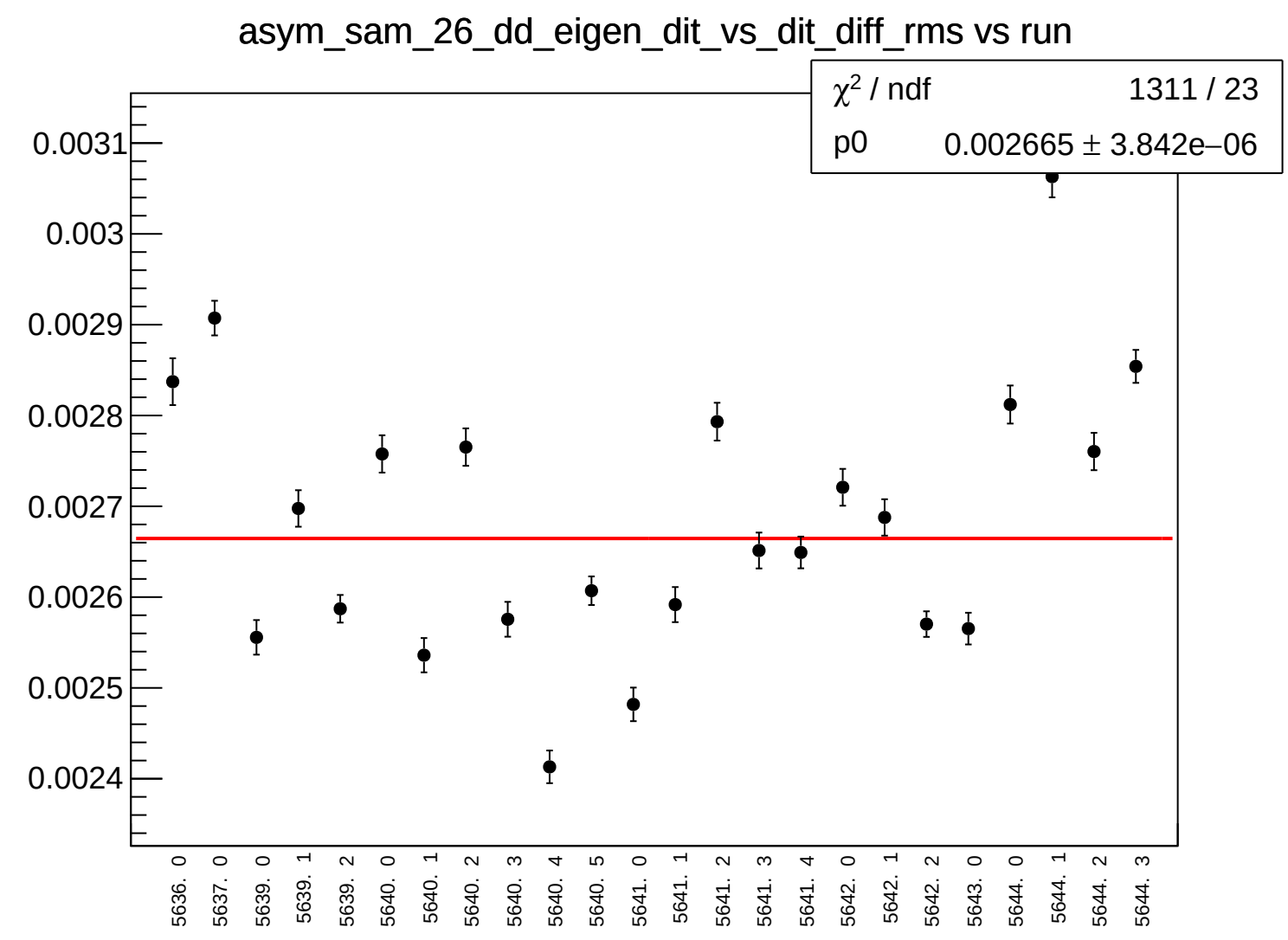

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.1 / 23
p0 0.05864 ± 0.2178
5
4
3
2
1
0
−1
−2
−3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −8.549
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

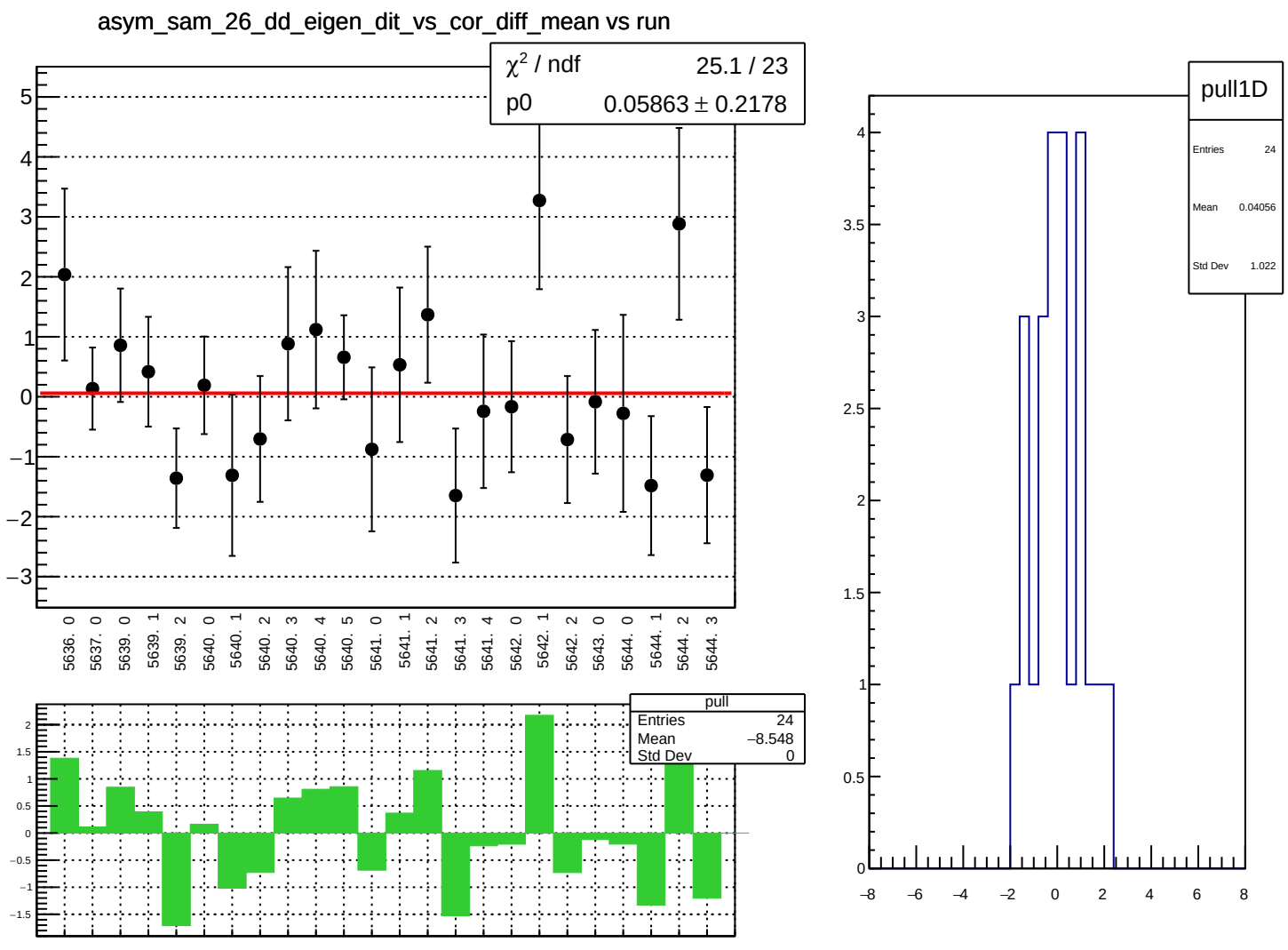

pull1D
Entries 24
Mean 0.04056
Std Dev 1.022
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

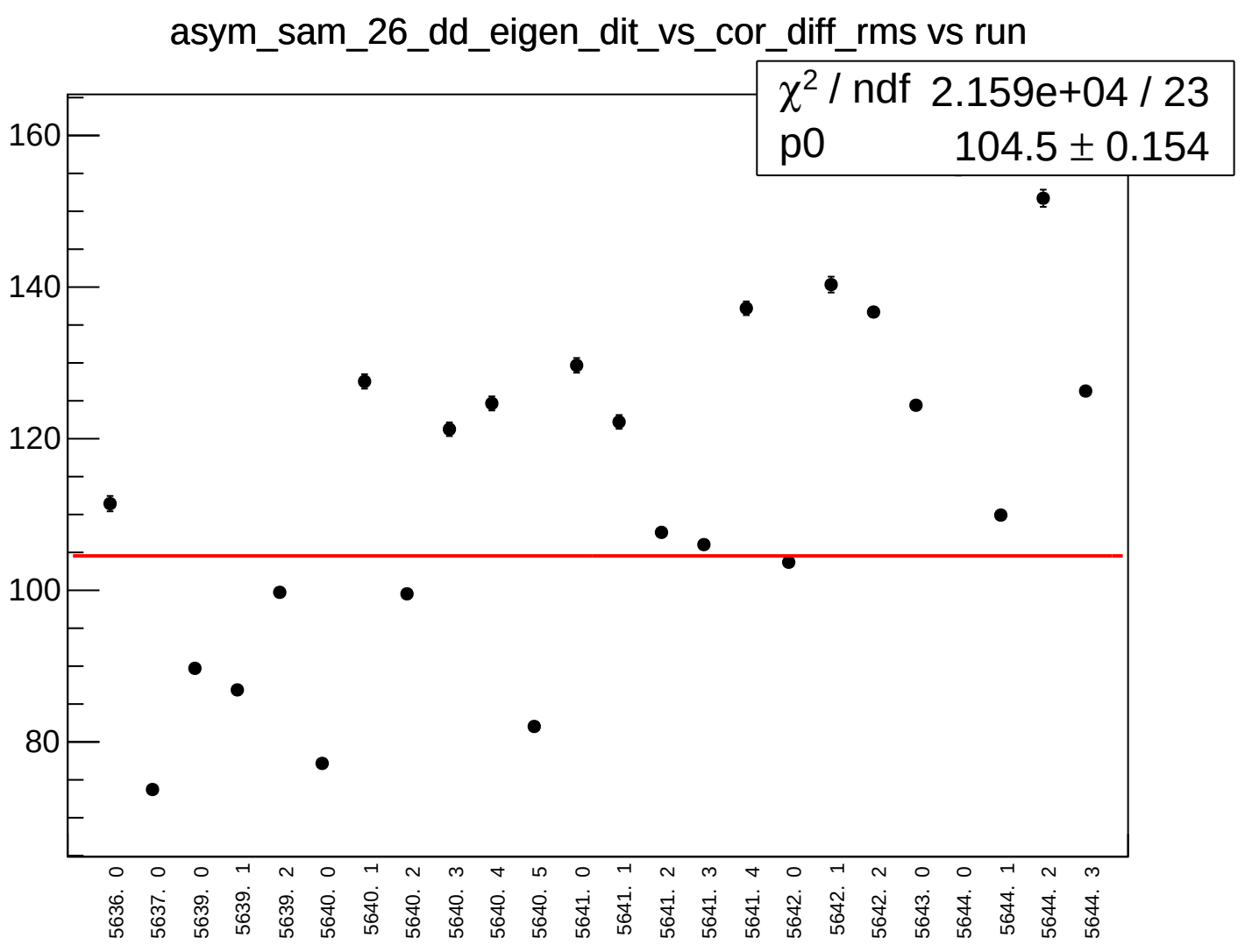

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.159e+04 / 23
p0 104.5 ± 0.154
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 22.34 / 23
p0 −1.525e−06 ± 5.434e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −70.21
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

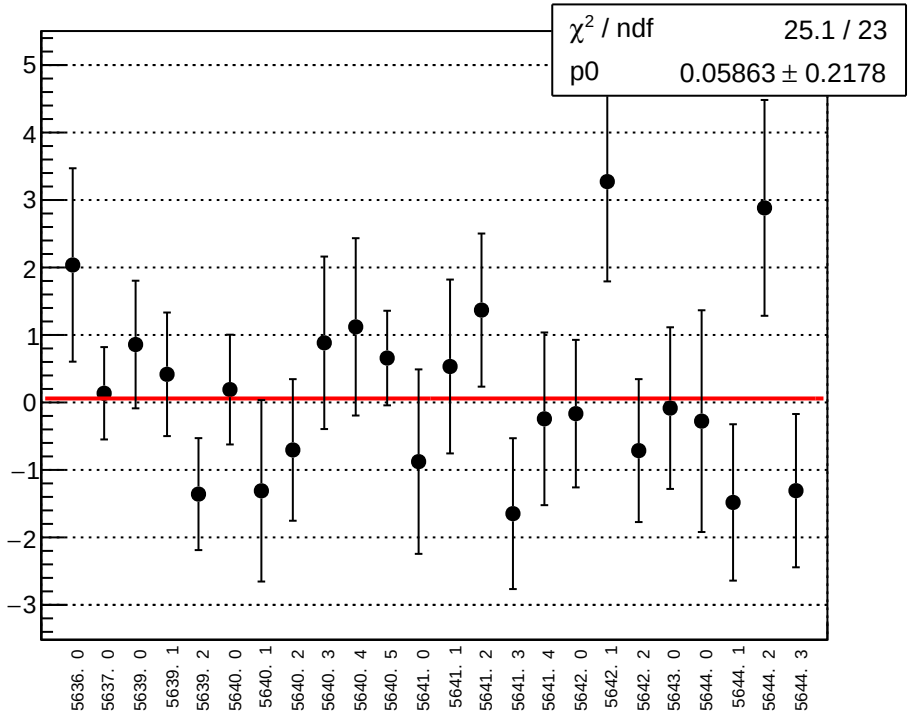

pull1D
Entries 24
Mean −0.02709
Std Dev 0.9645
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

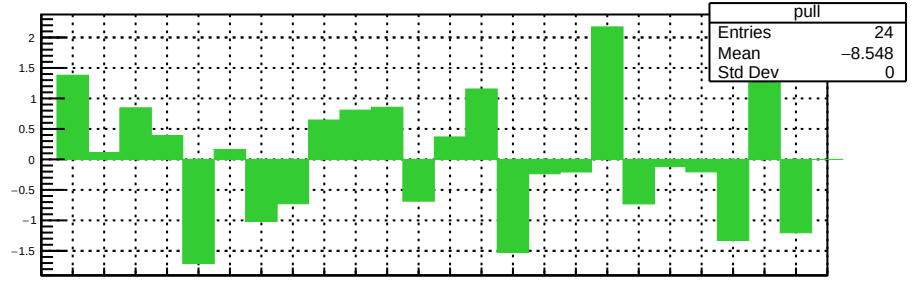

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1311 / 23
p0 0.002665 ± 3.842e−06
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

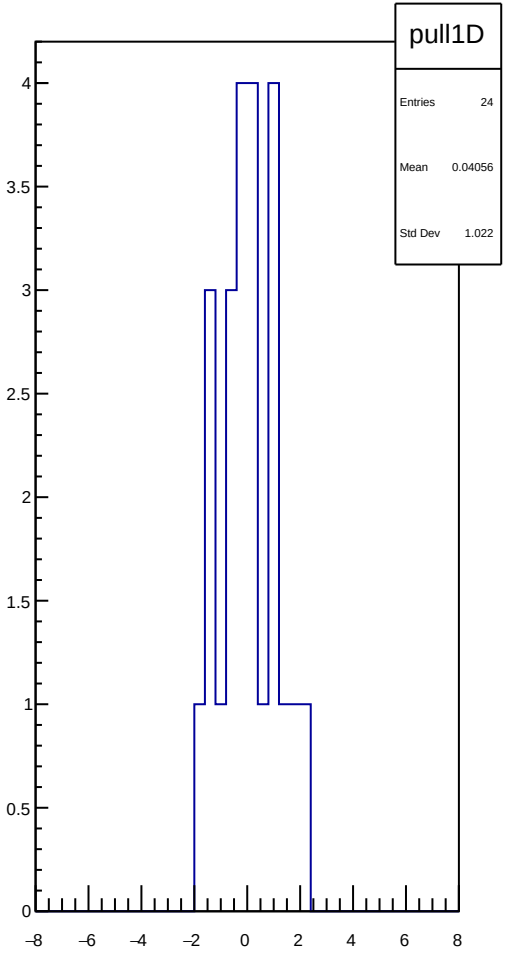

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 25.1 / 23
p0 0.05863 ± 0.2178
5
4
3
2
1
0
−1
−2
−3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −8.548
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.04056
Std Dev 1.022
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

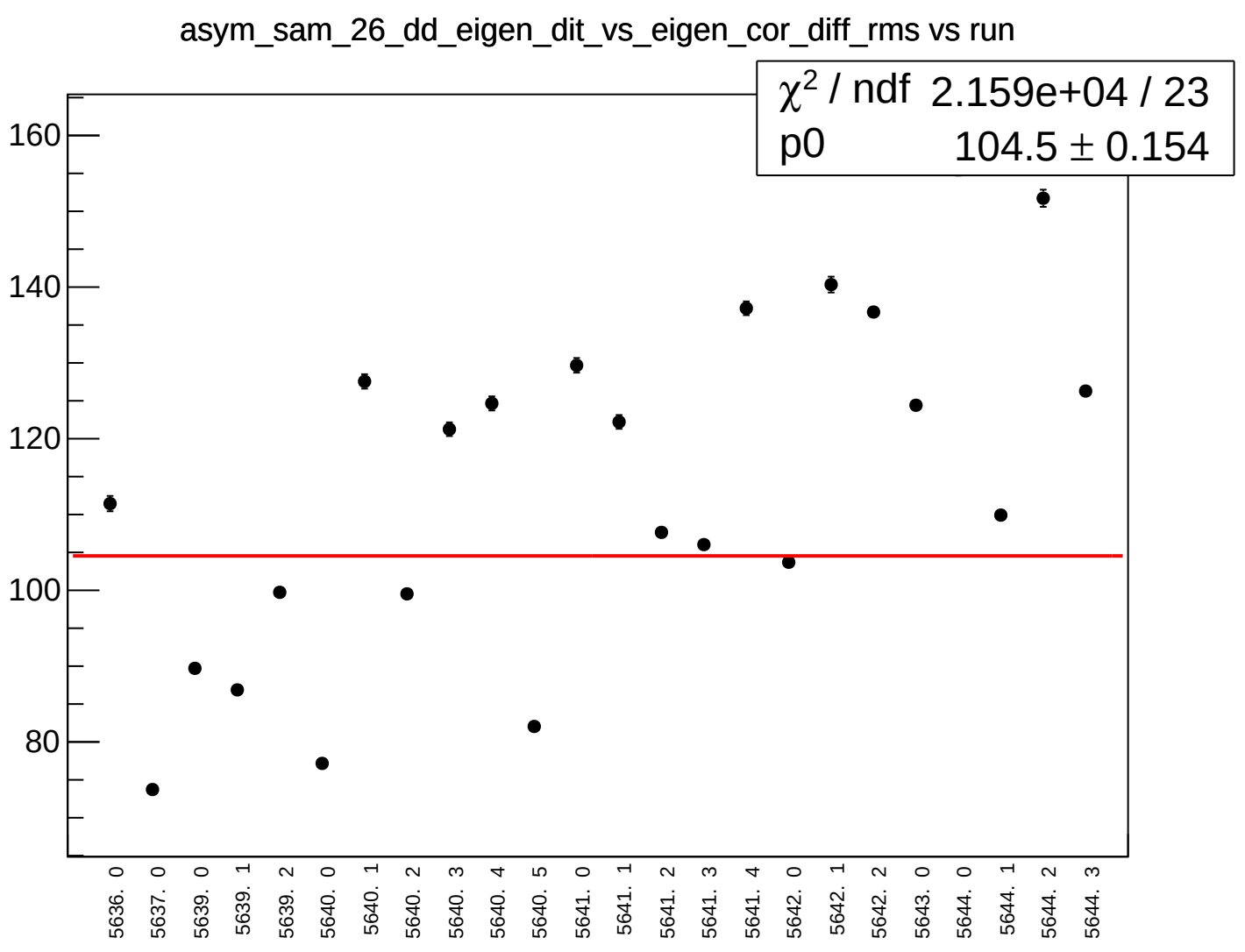

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.159e+04 / 23
p0 104.5 ± 0.154
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

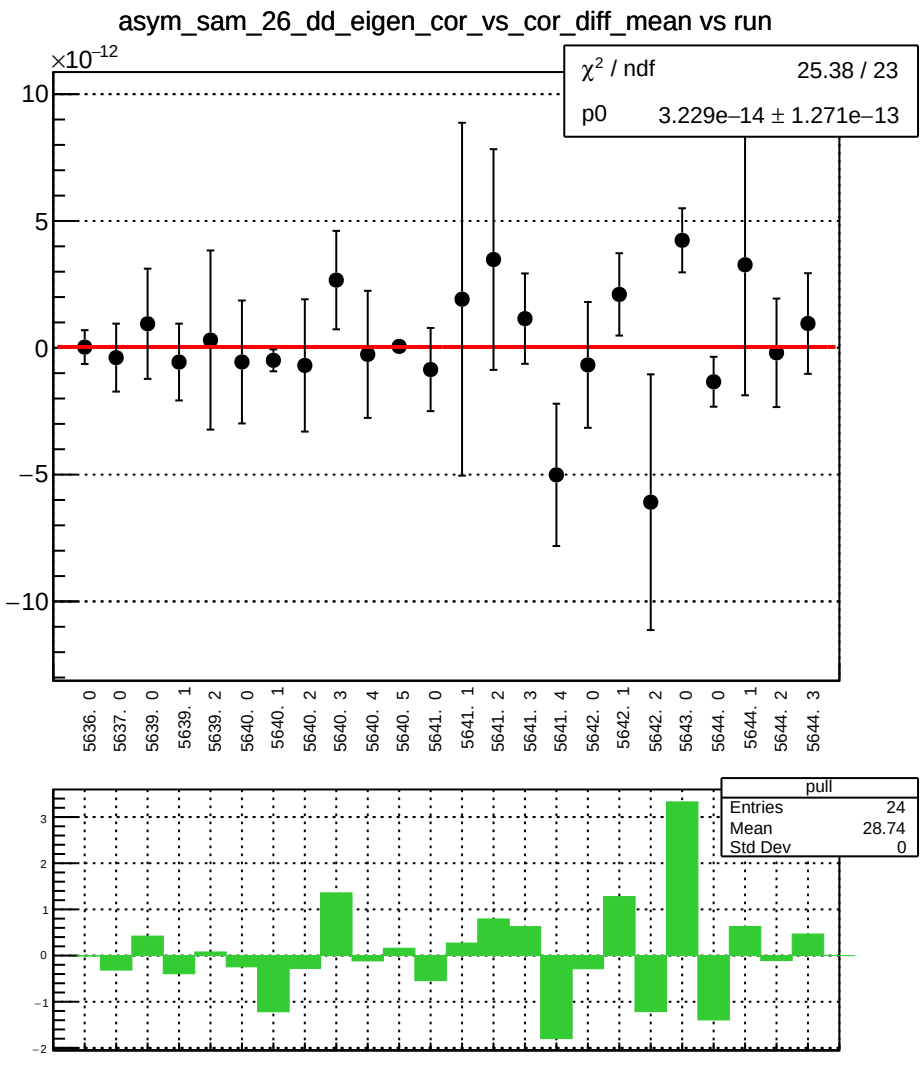
asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

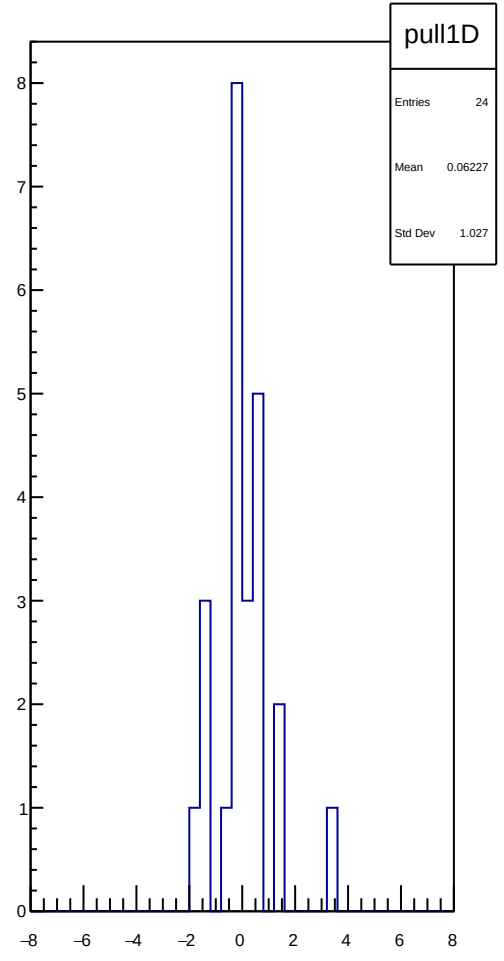


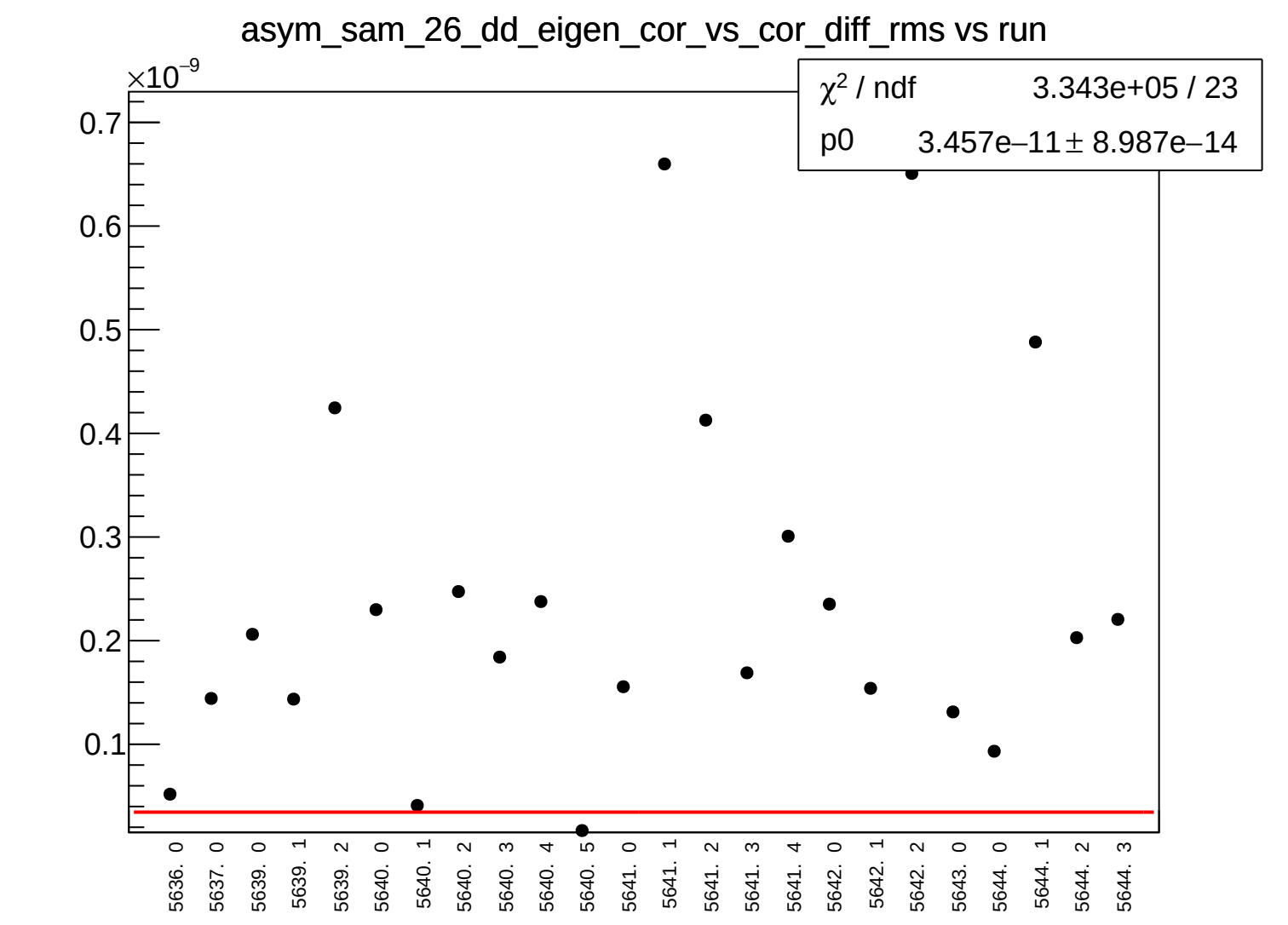


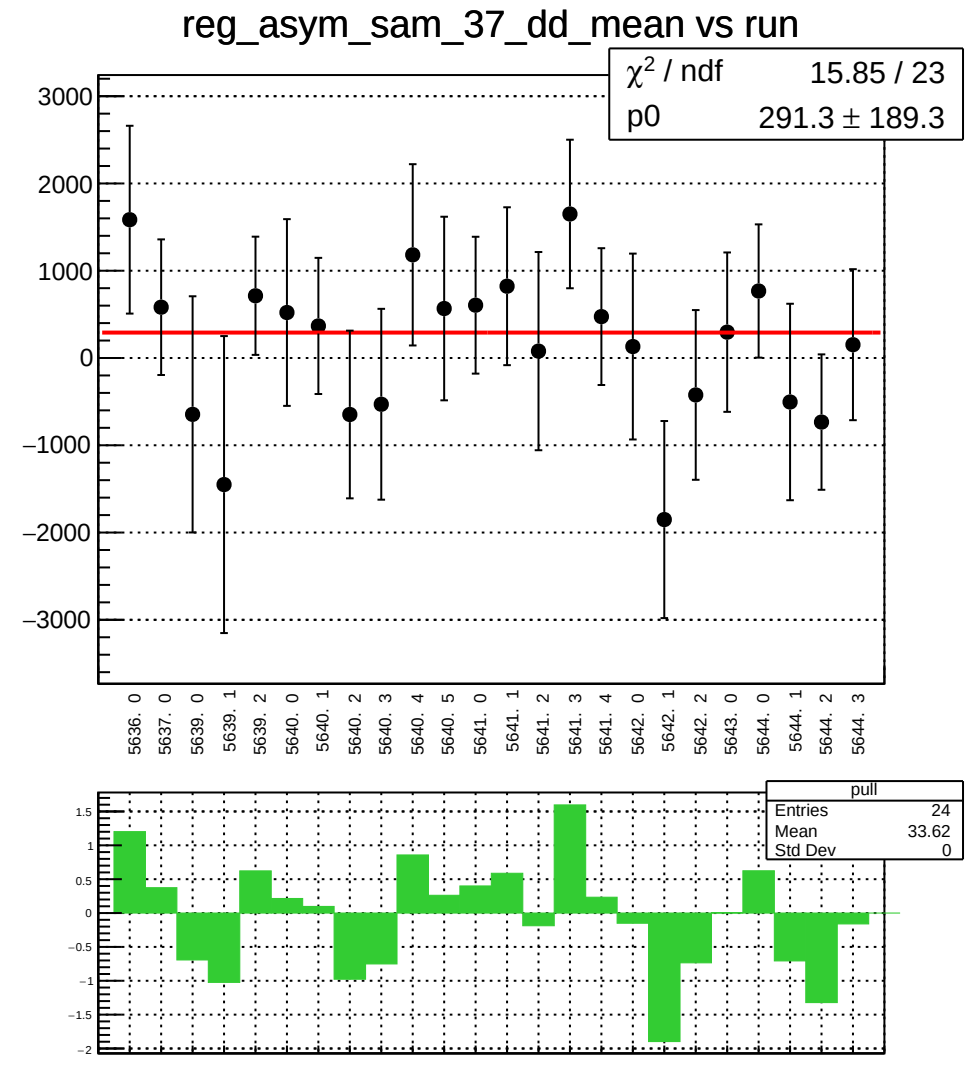


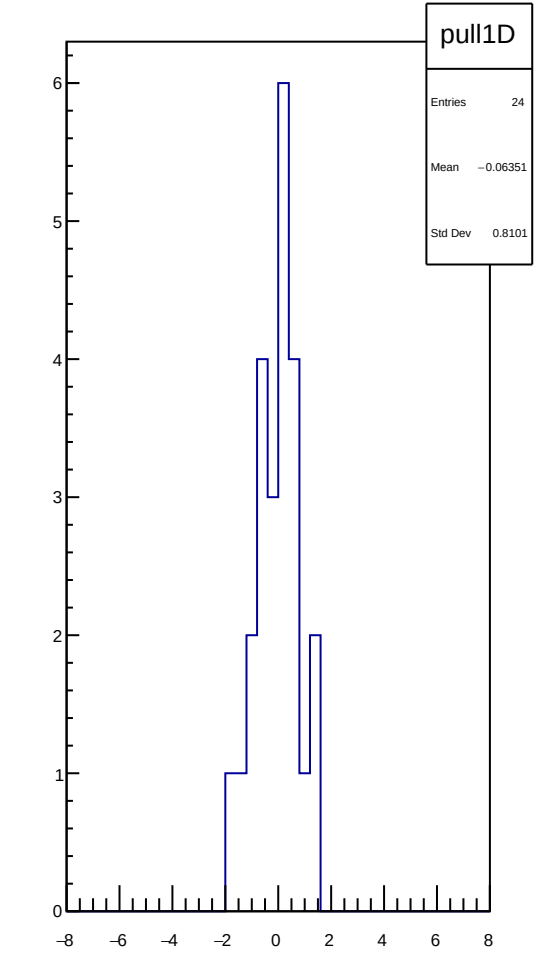

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.159e+04 / 23
p0 104.5 ± 0.154
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

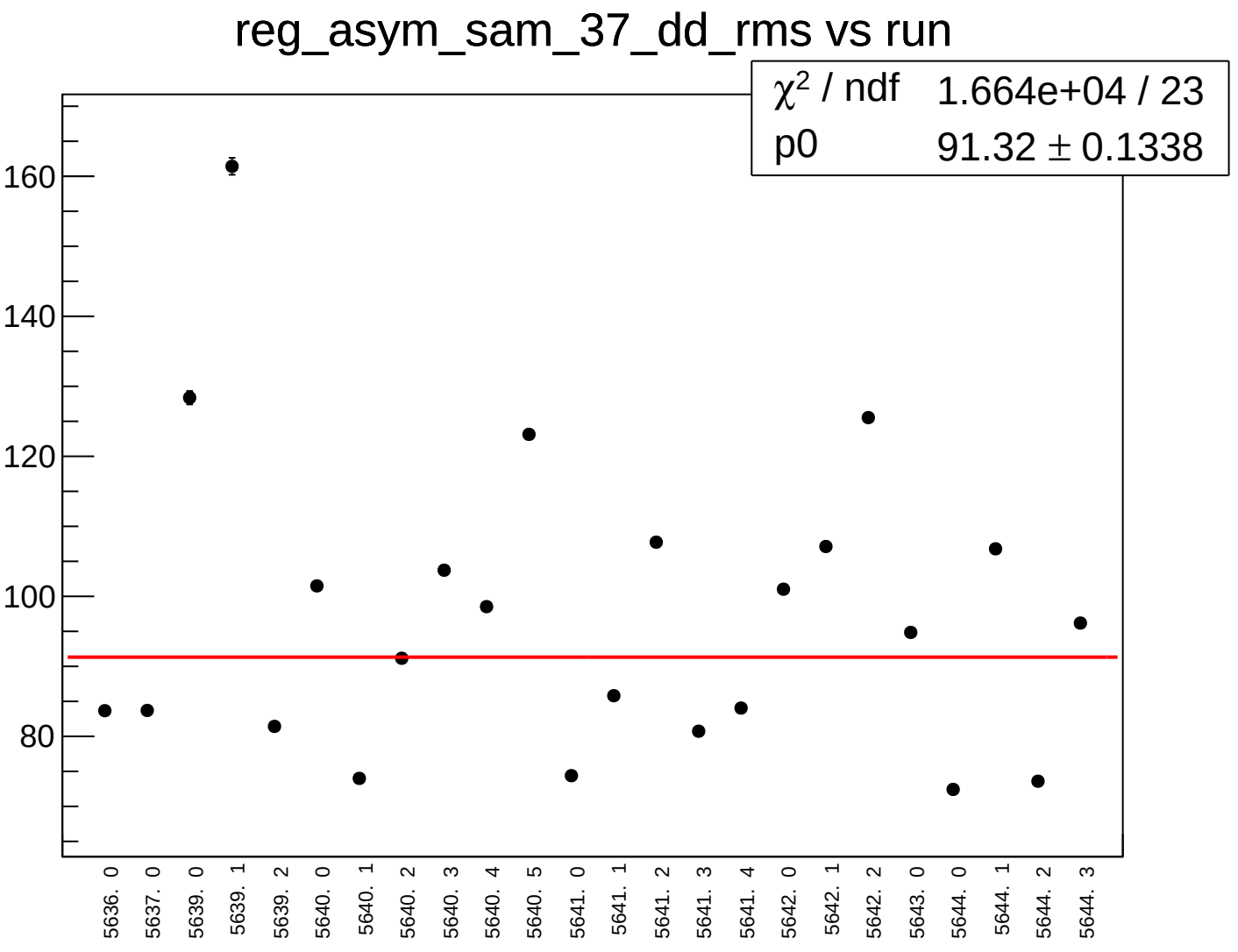

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 25.38 / 23
p0 3.229e−14 ± 1.271e−13
10
5
0
−5
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 28.74
Std Dev 0
3
2
1
0
−1
−2

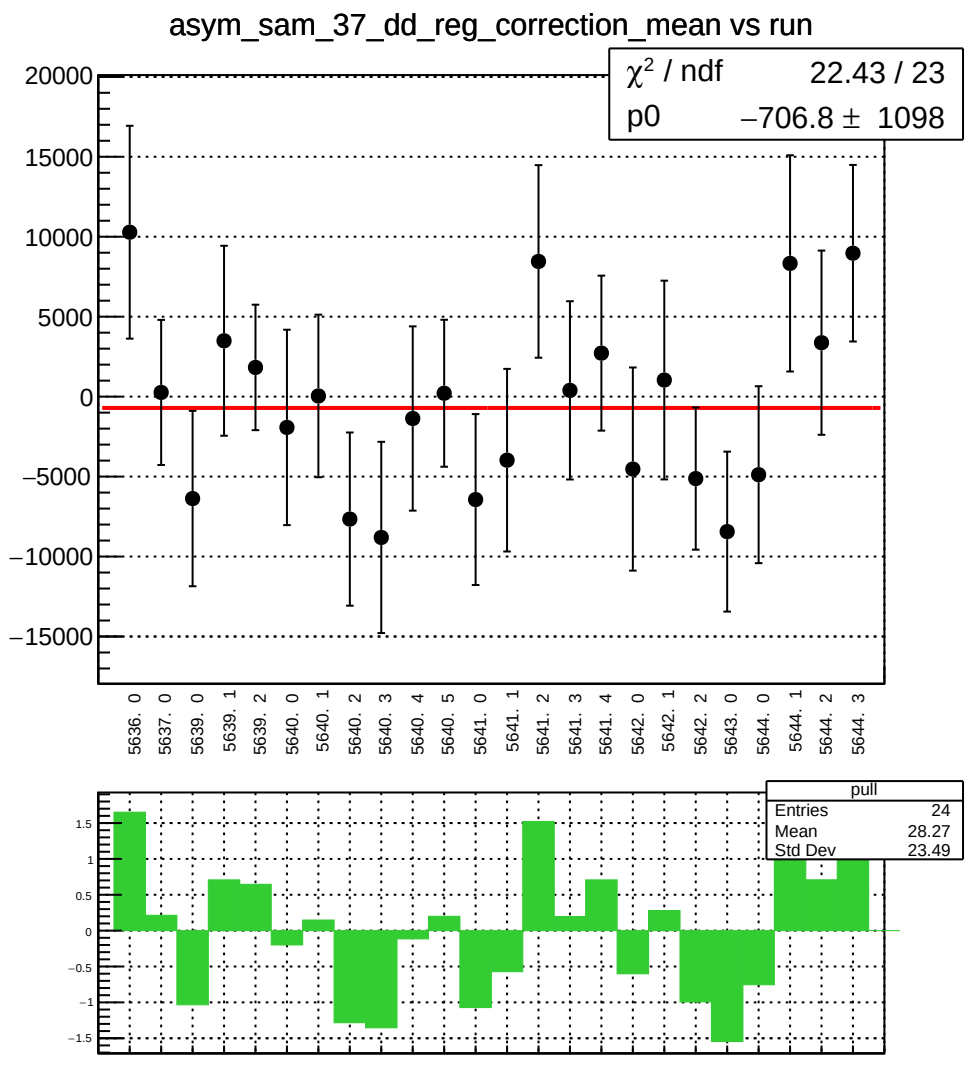

pull1D
Entries 24
Mean 0.06227
Std Dev 1.027
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

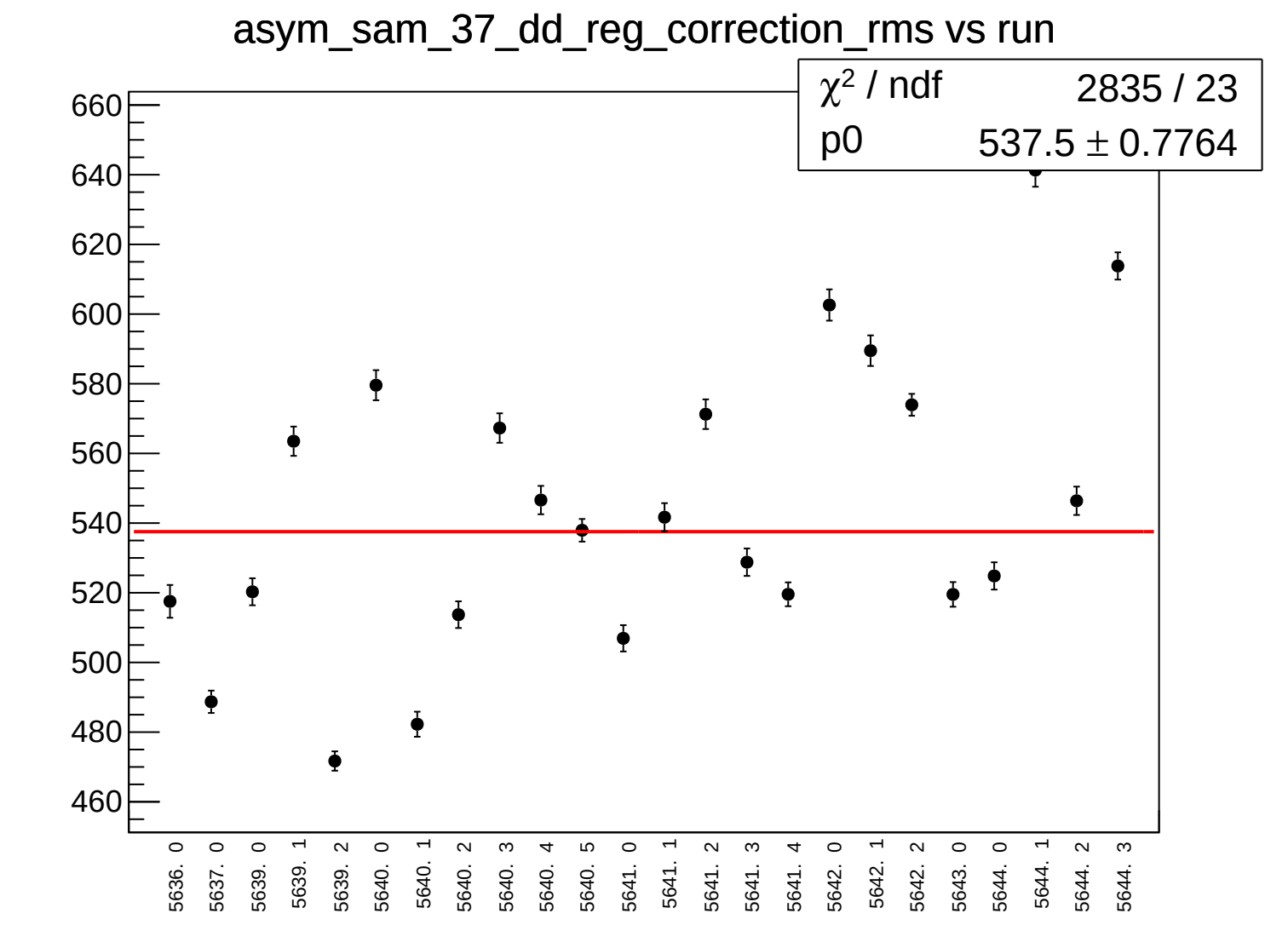

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.343e+05 / 23
p0 3.457e−11 ± 8.987e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

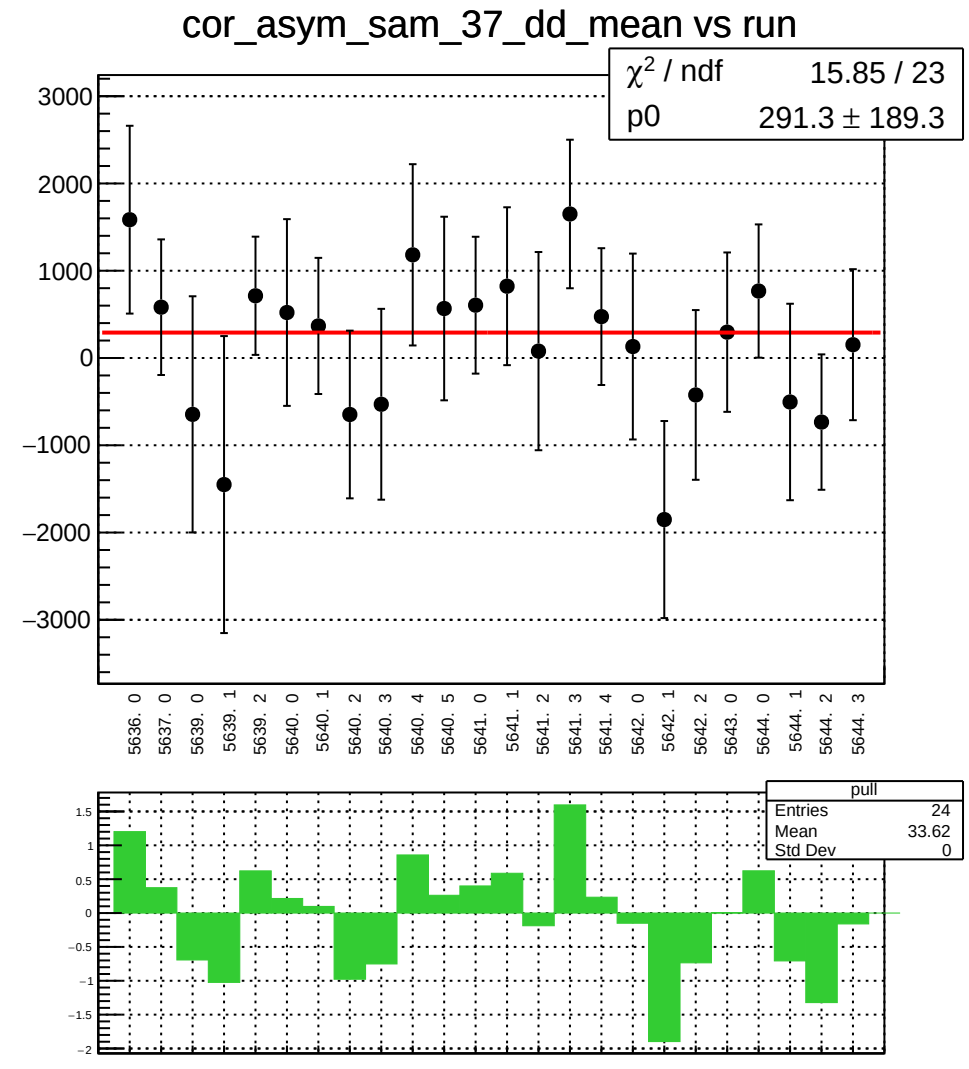

reg_asym_sam_37_dd_mean vs run
χ² / ndf 15.85 / 23
p0 291.3 ± 189.3
3000
2000
1000
0
−1000
−2000
−3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 33.62
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

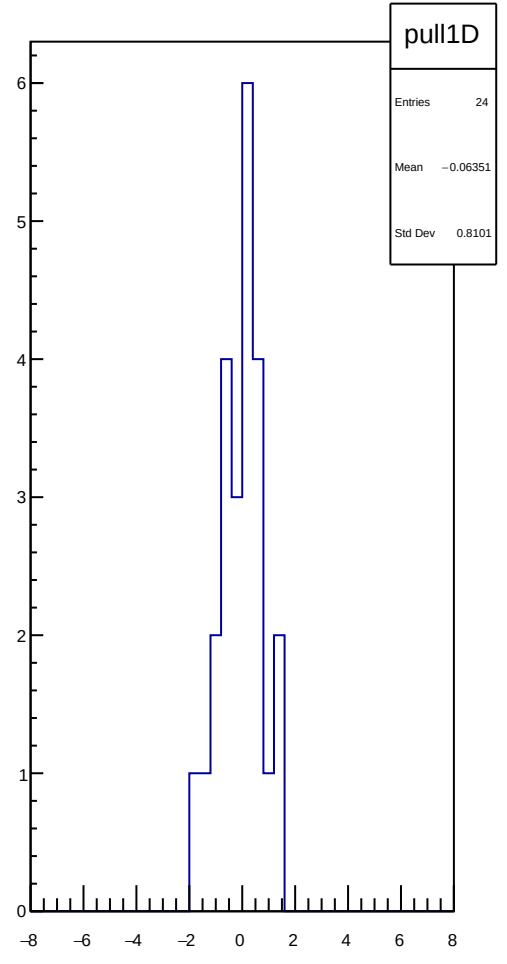

pull1D
Entries 24
Mean −0.06351
Std Dev 0.8101
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

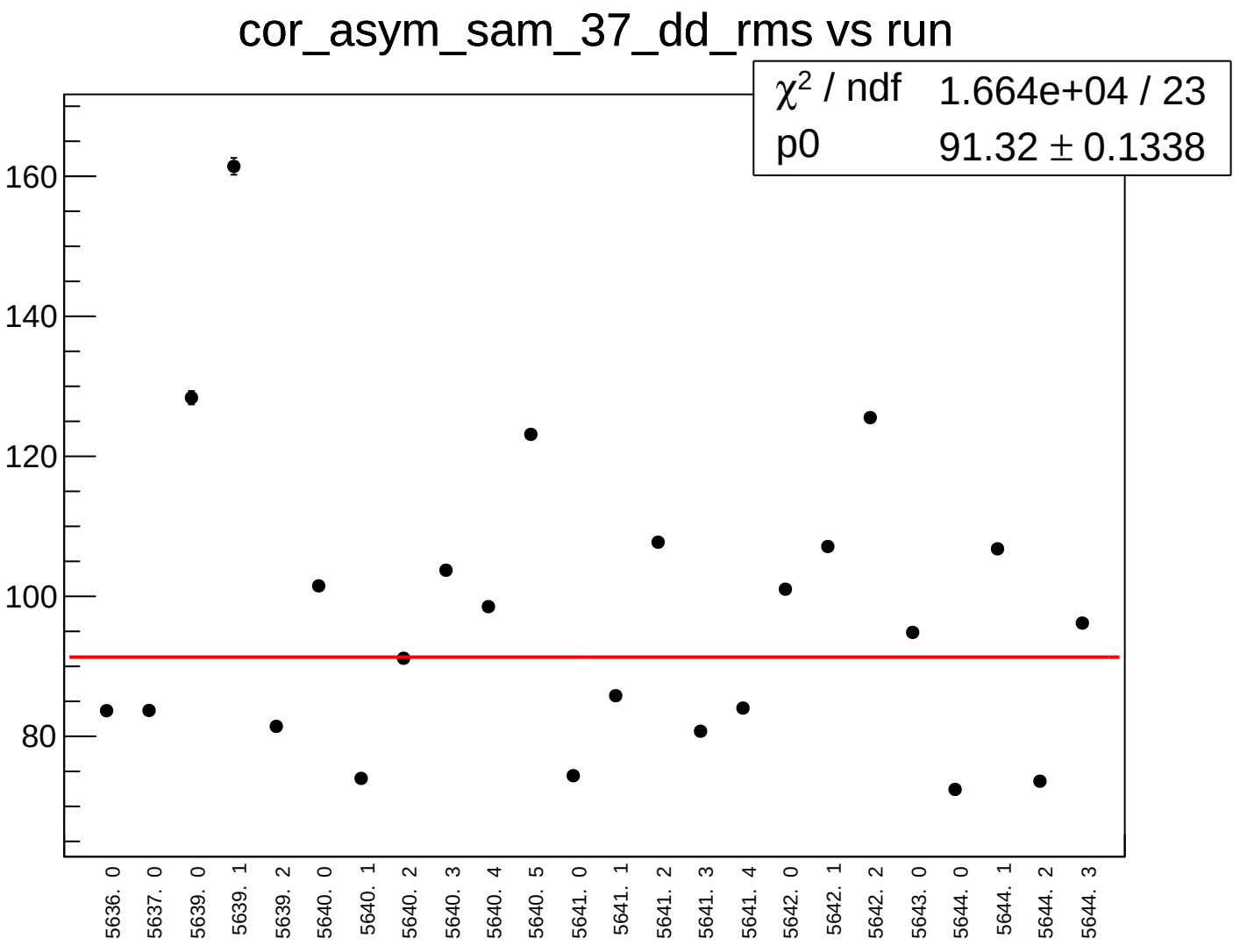

reg_asym_sam_37_dd_rms vs run
χ² / ndf 1.664e+04 / 23
p0 91.32 ± 0.1338
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

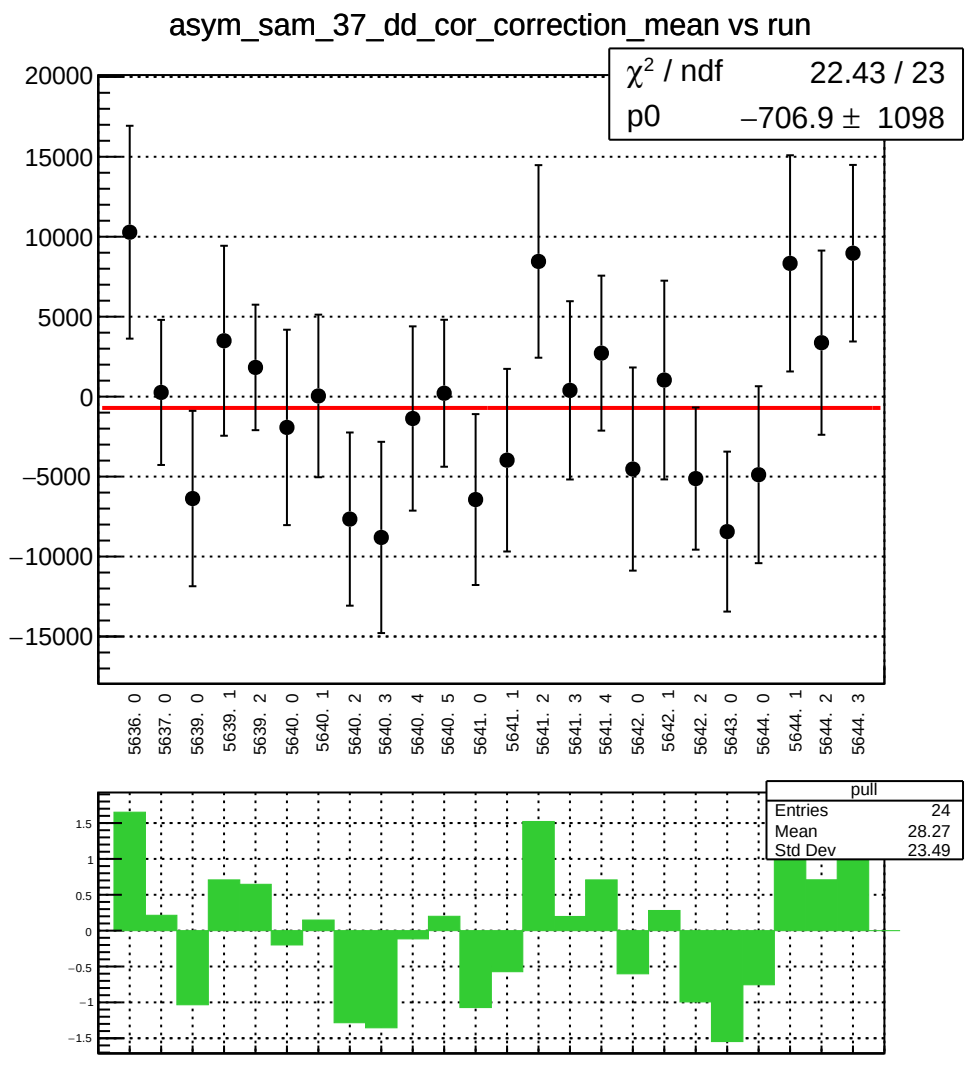

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 22.43 / 23
p0 −706.8 ± 1098
20000
15000
10000
5000
0
−5000
−10000
−15000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 28.27
Std Dev 23.49
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.02275
Std Dev 0.9666
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

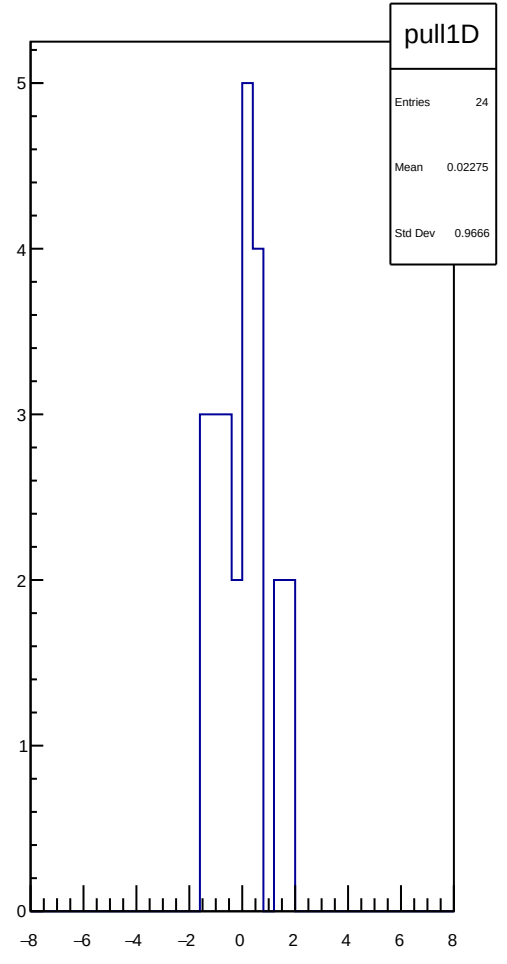

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 2835 / 23
p0 537.5 ± 0.7764
660
640
620
600
580
560
540
520
500
480
460
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

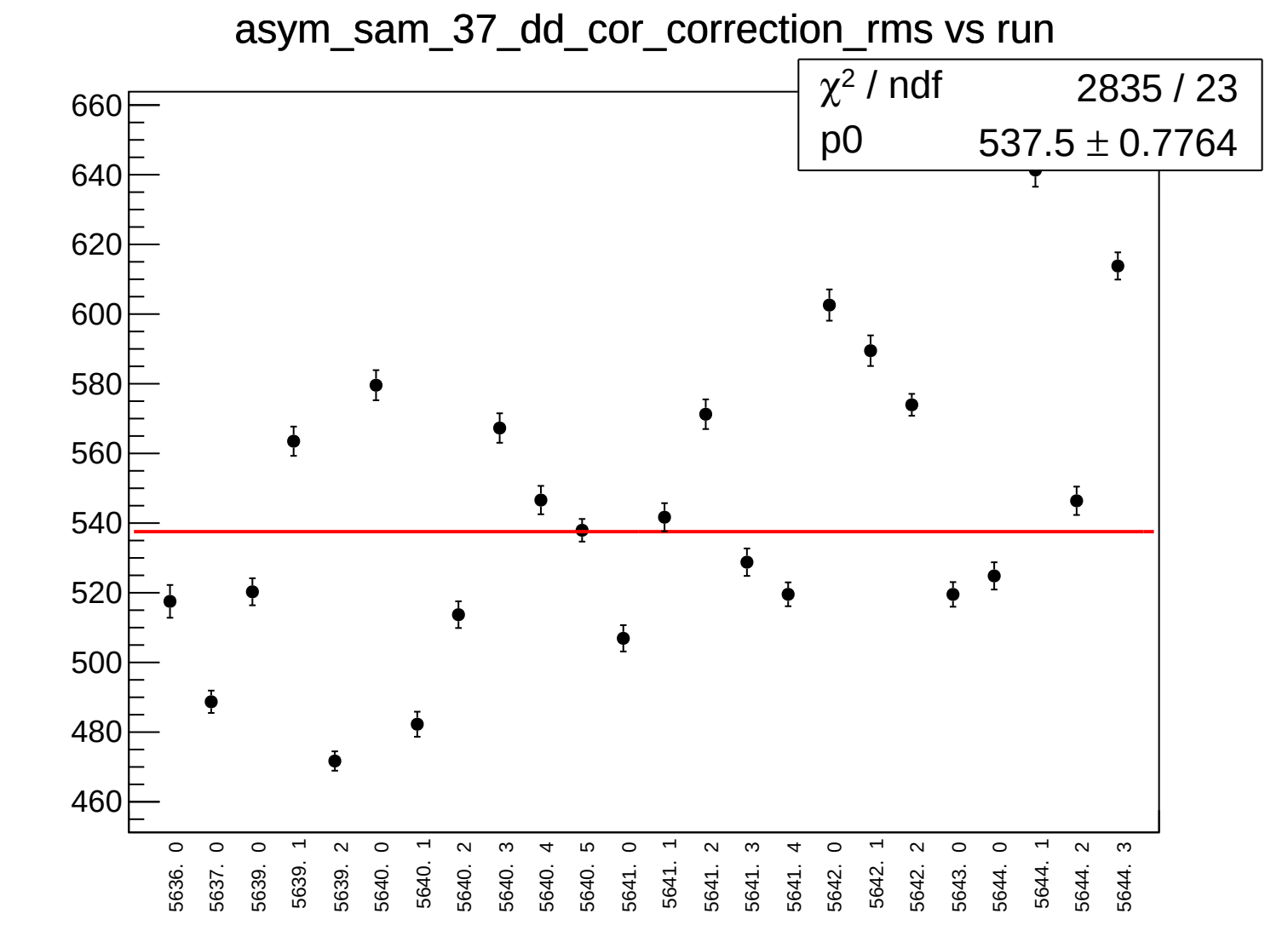

cor_asym_sam_37_dd_mean vs run
χ² / ndf 15.85 / 23
p0 291.3 ± 189.3
3000
2000
1000
0
−1000
−2000
−3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 33.62
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.06351
Std Dev 0.8101
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_37_dd_rms vs run
χ² / ndf 1.664e+04 / 23
p0 91.32 ± 0.1338
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 22.43 / 23
p0 −706.9 ± 1098
20000
15000
10000
5000
0
−5000
−10000
−15000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 28.27
Std Dev 23.49
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean 0.02275
Std Dev 0.9666
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 2835 / 23
p0 537.5 ± 0.7764
660
640
620
600
580
560
540
520
500
480
460
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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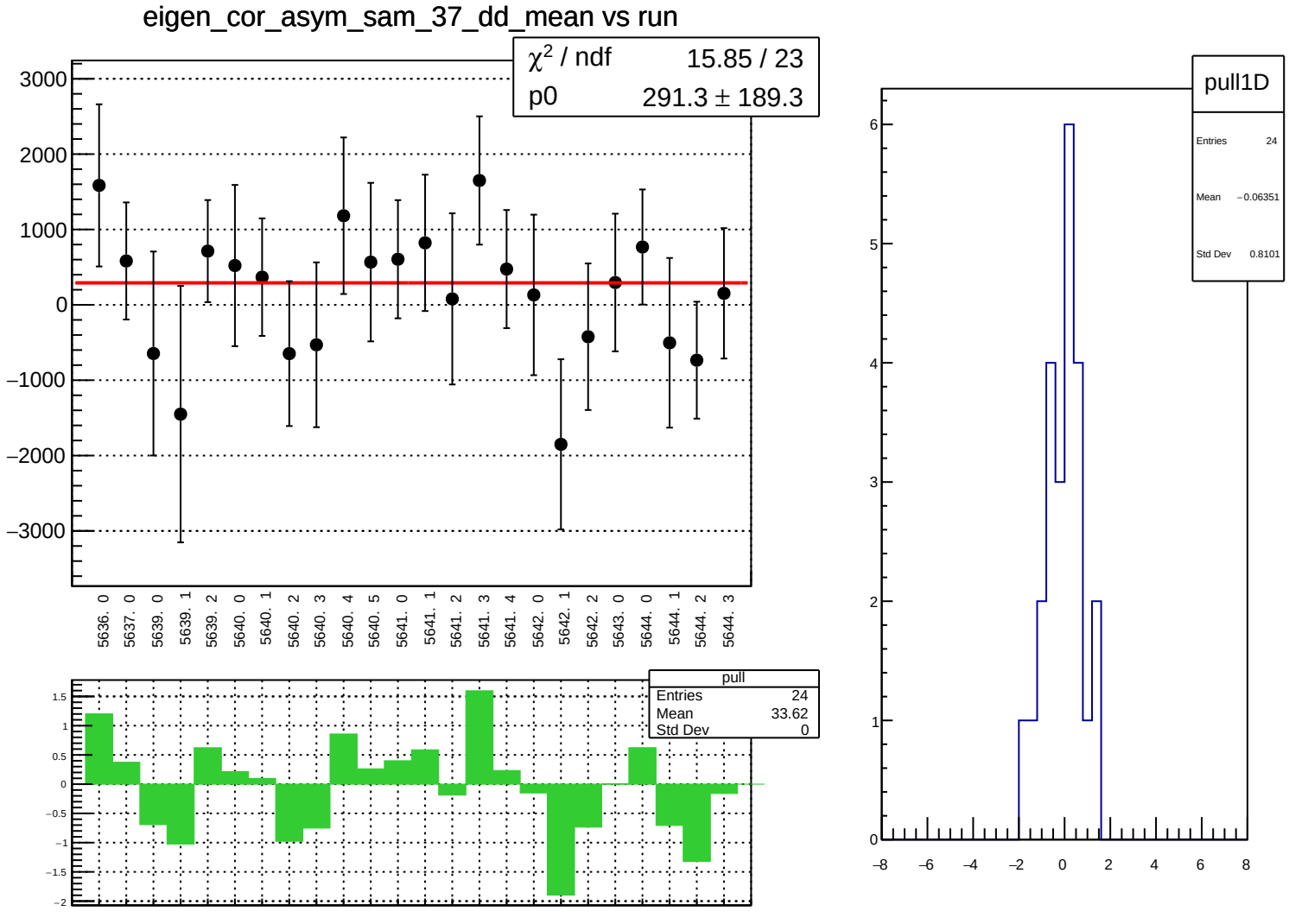
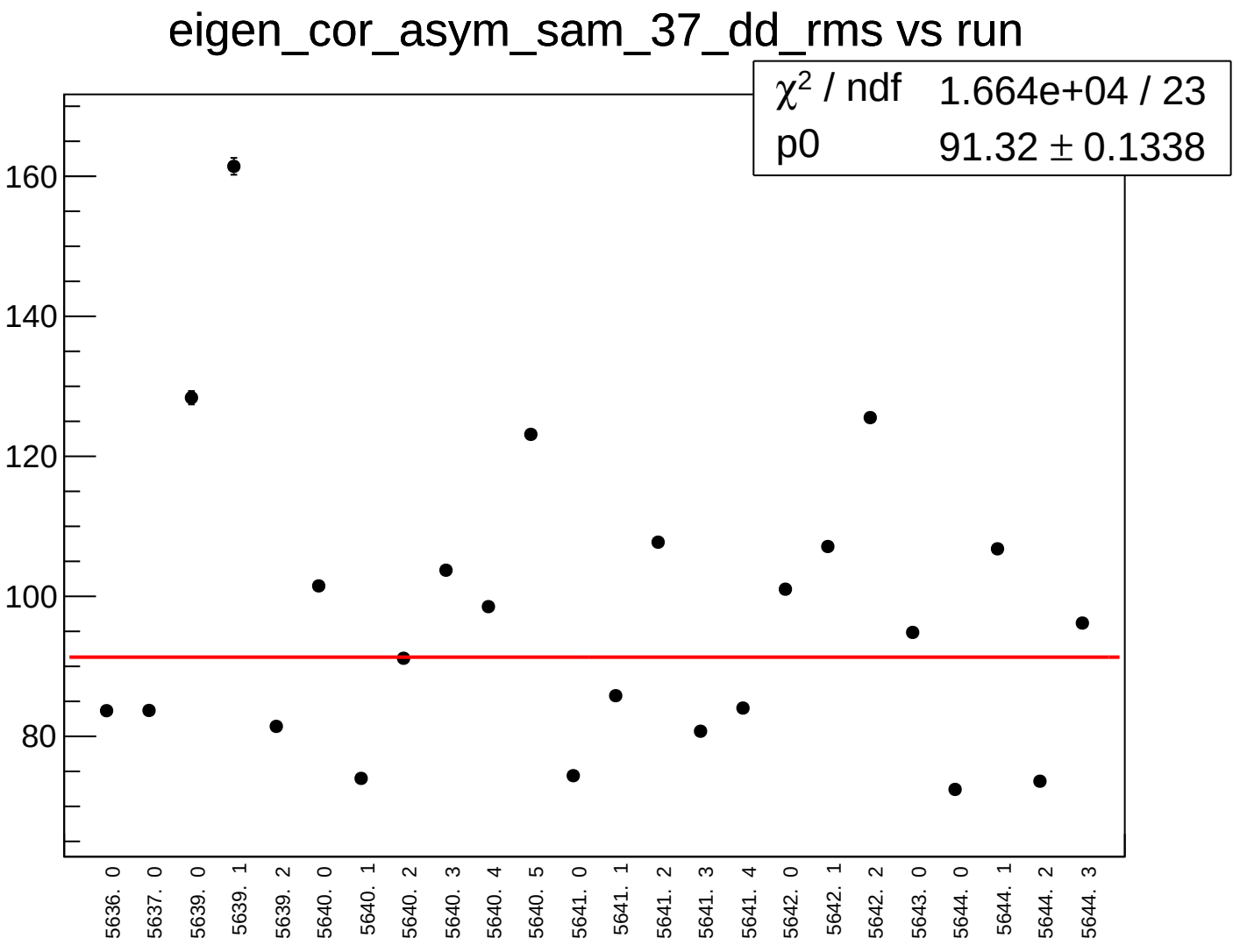
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 15.85 / 23
p0 291.3 ± 189.3
3000
2000
1000
0
−1000
−2000
−3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 33.62
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.06351
Std Dev 0.8101
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 1.664e+04 / 23
p0 91.32 ± 0.1338
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5642. 0
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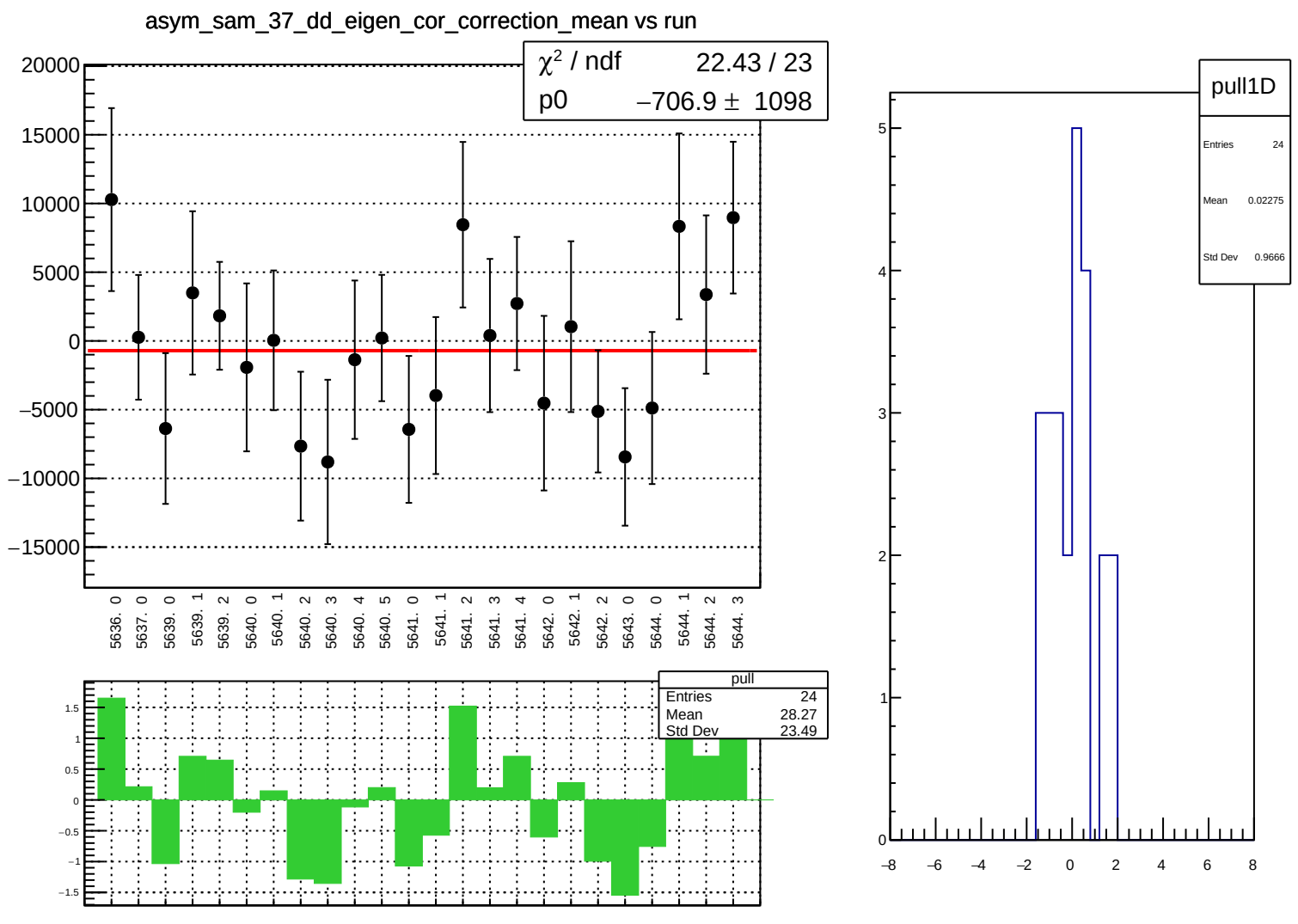
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 22.43 / 23
p0 −706.9 ± 1098
20000
15000
10000
5000
0
−5000
−10000
−15000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 28.27
Std Dev 23.49
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.02275
Std Dev 0.9666
5
4
3
2
1
0
−8
−6
−4
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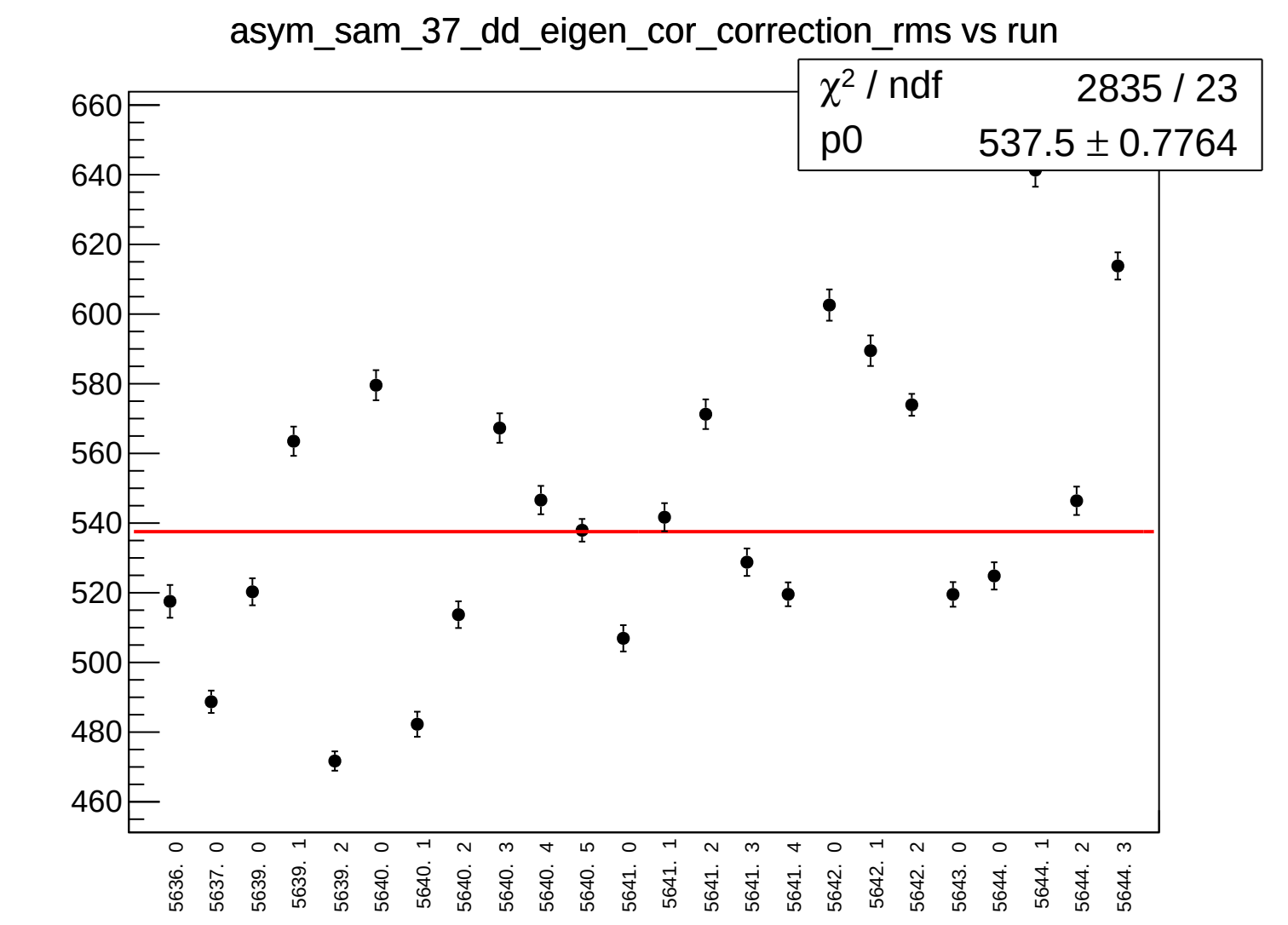
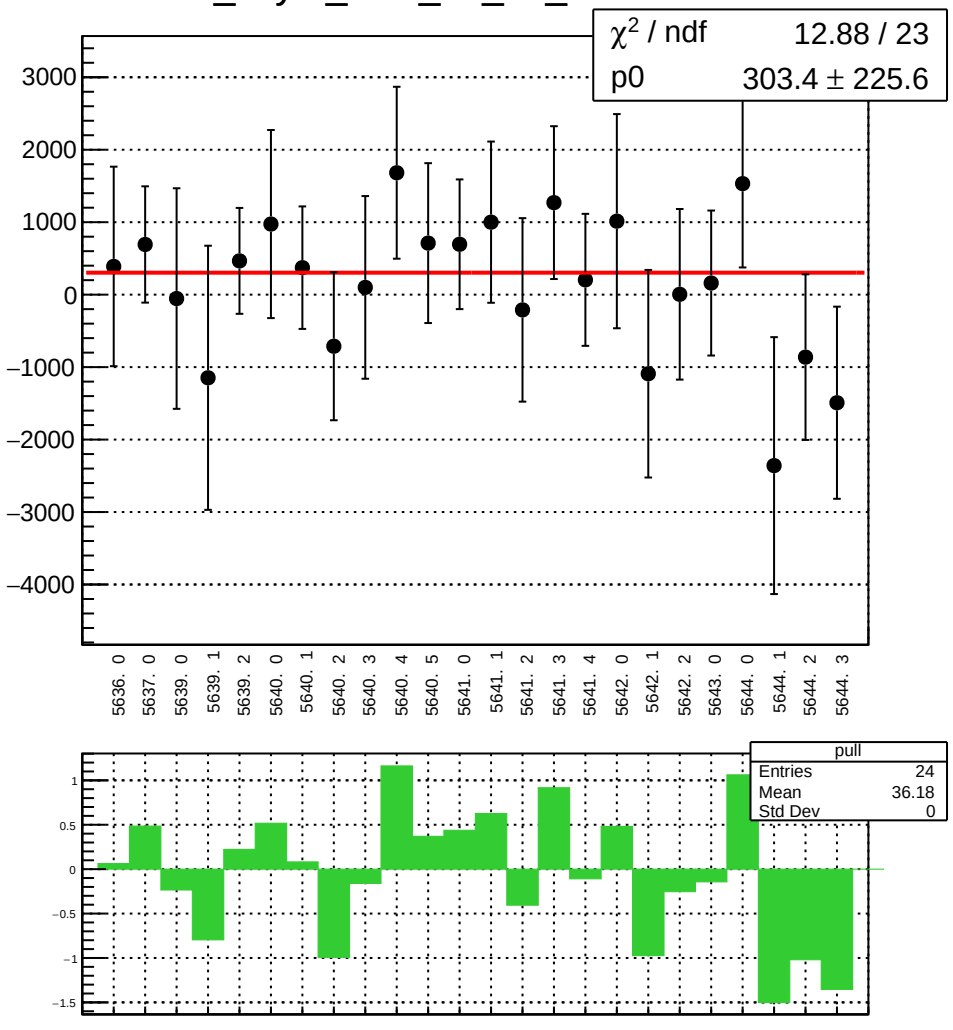
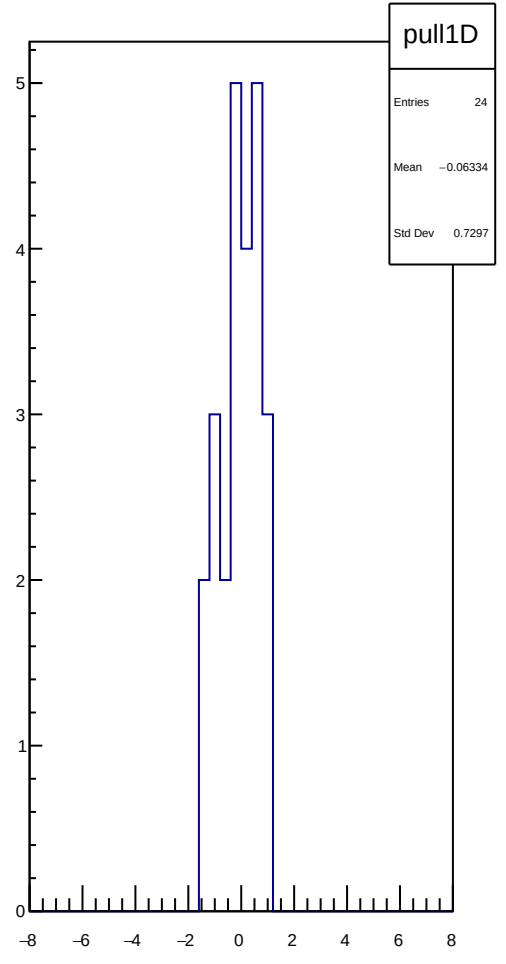
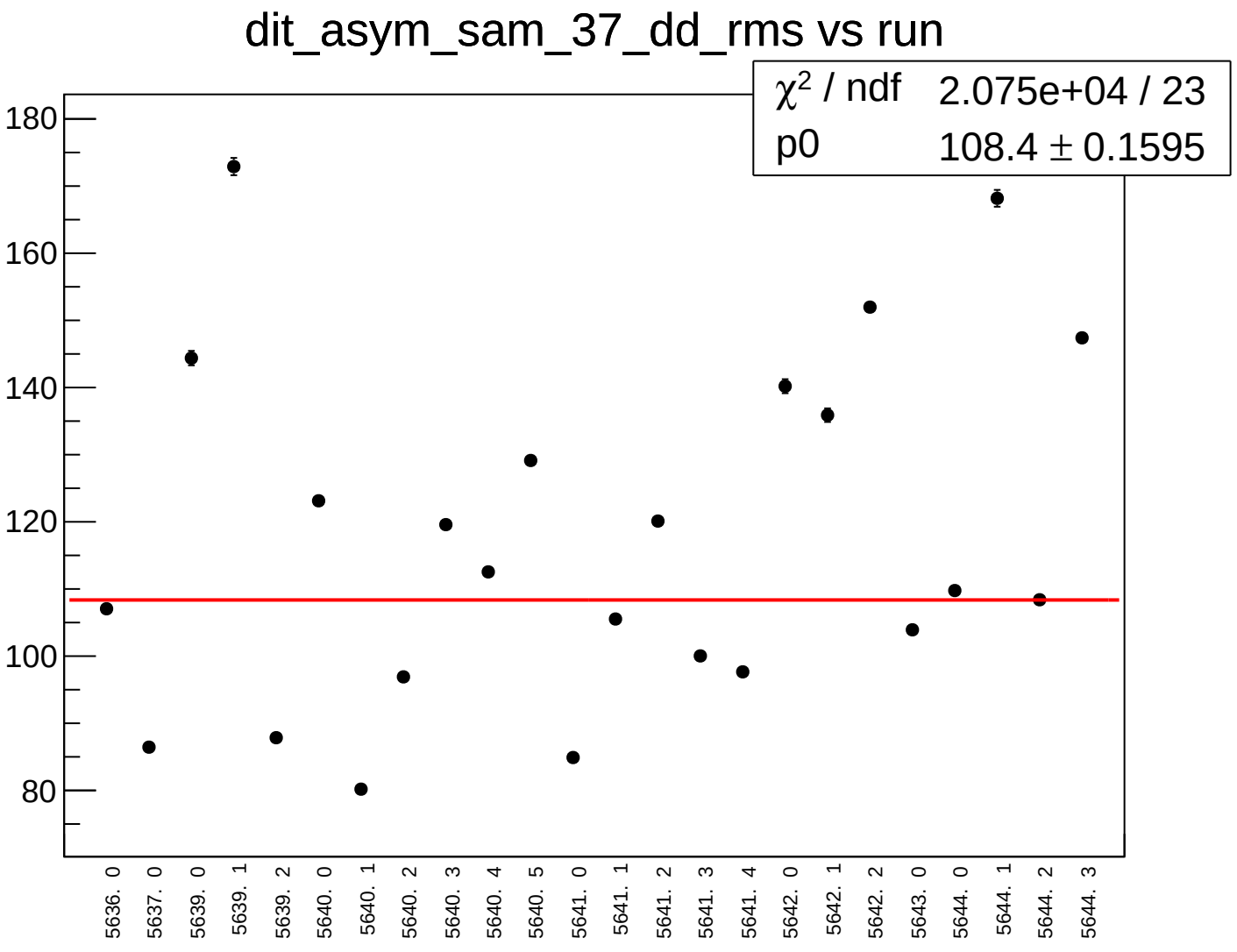
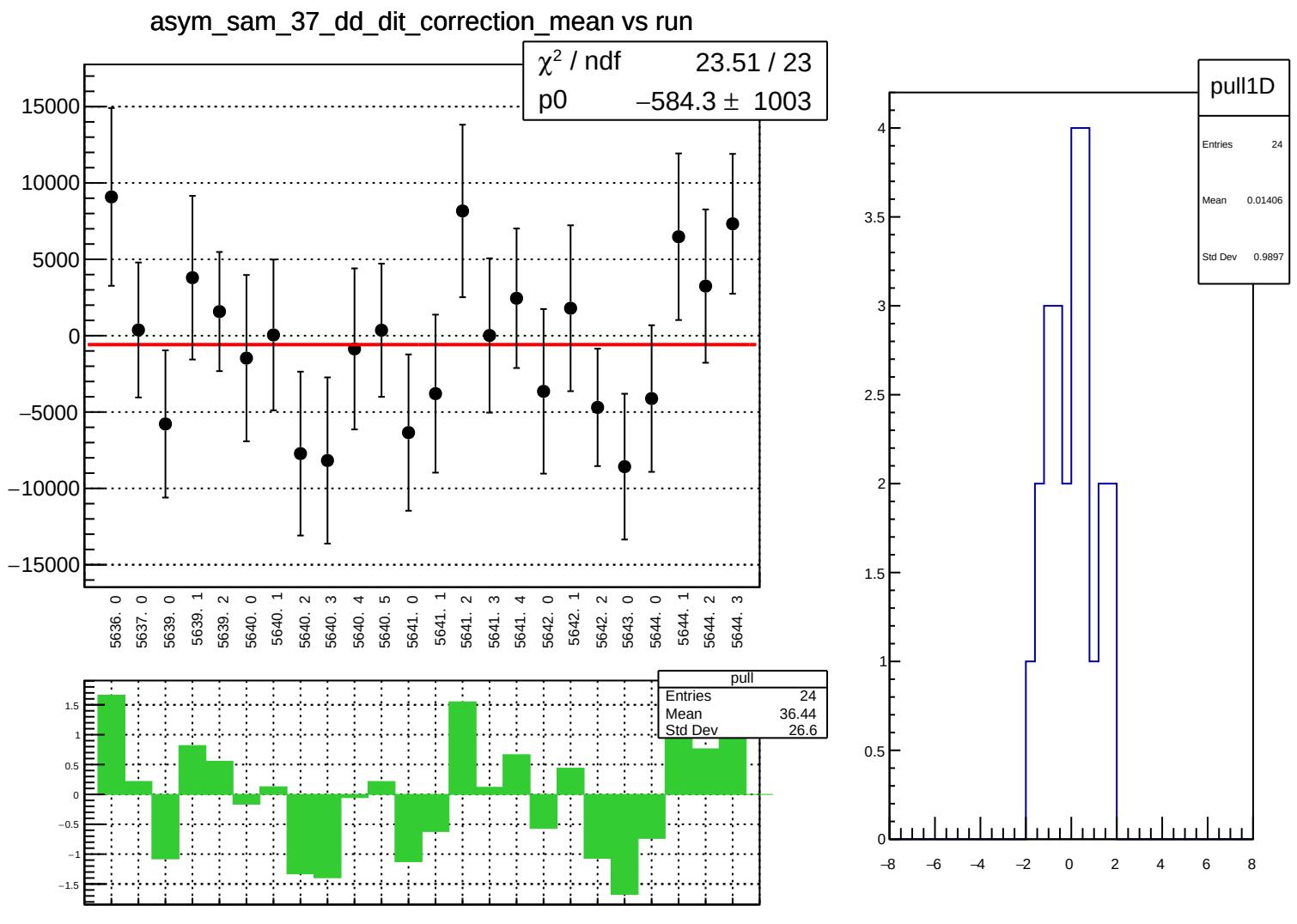
2
4
6
8

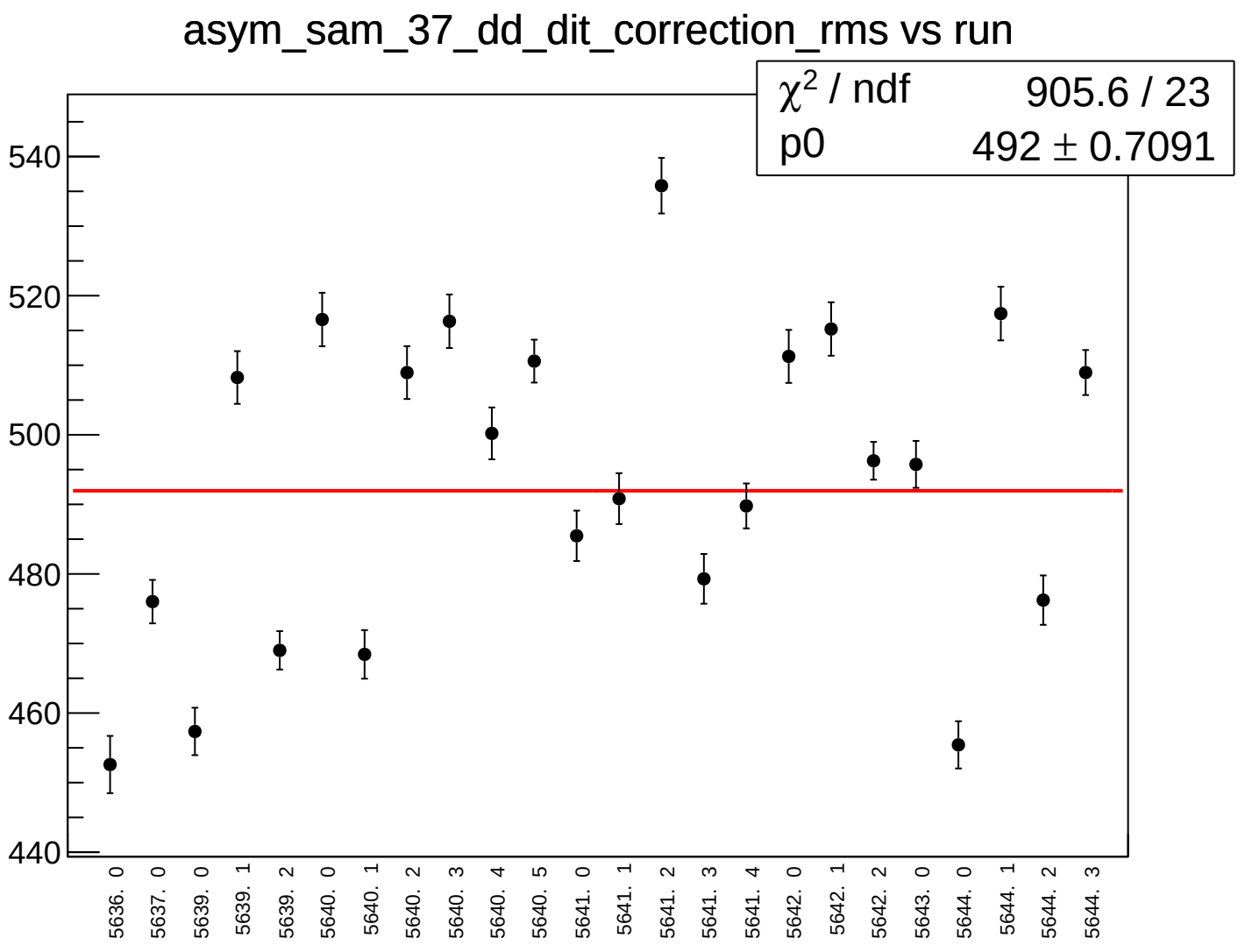

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 2835 / 23
p0 537.5 ± 0.7764
660
640
620
600
580
560
540
520
500
480
460
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

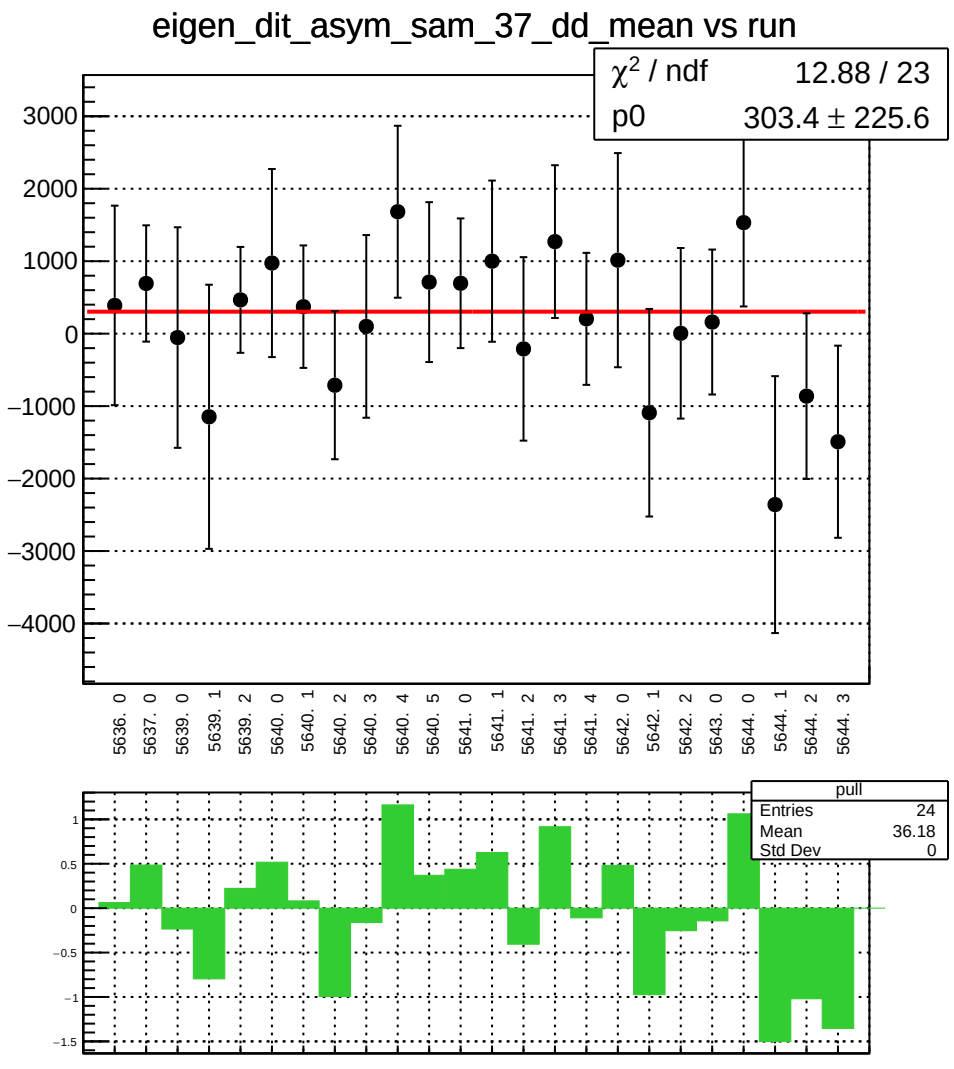

dit_asym_sam_37_dd_mean vs run
χ² / ndf 12.88 / 23
p0 303.4 ± 225.6
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 36.18
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

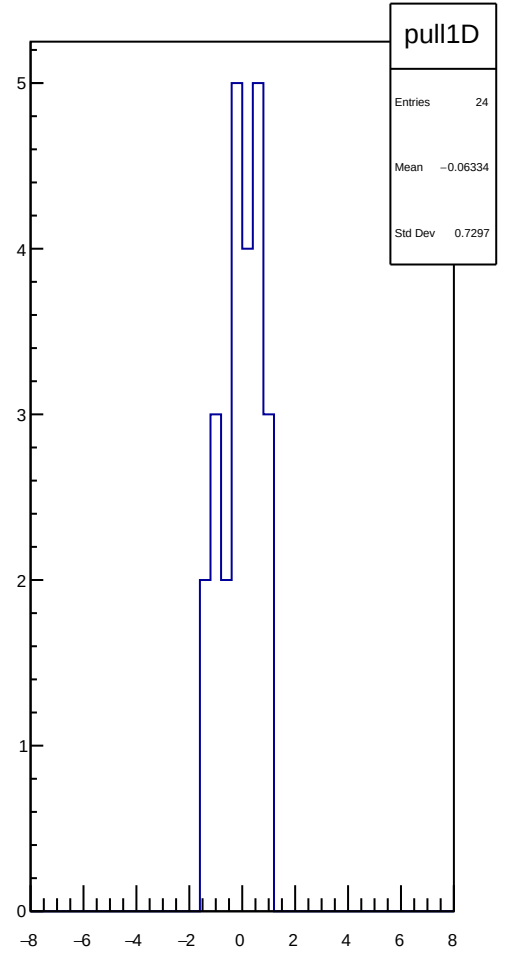

pull1D
Entries 24
Mean −0.06334
Std Dev 0.7297
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

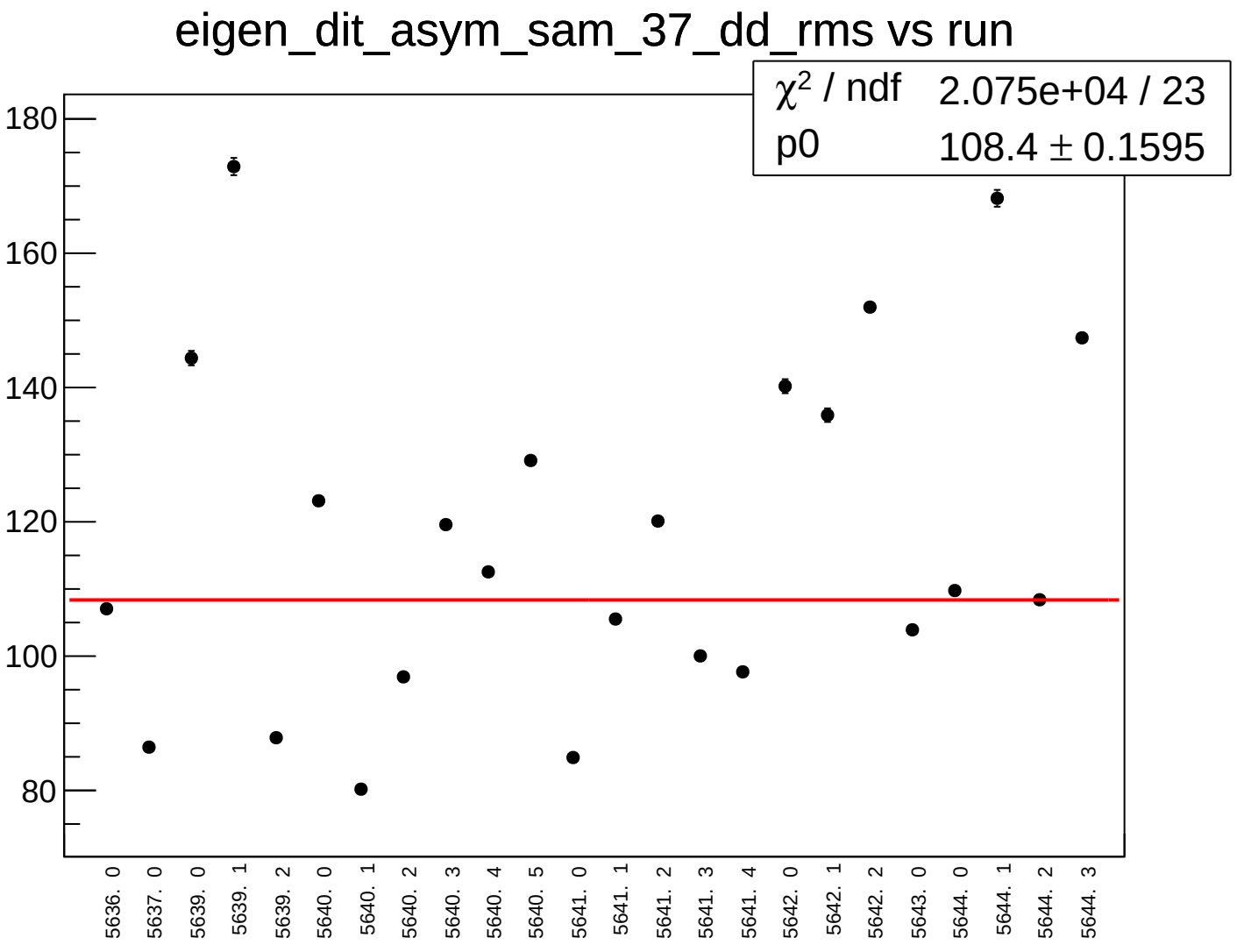

dit_asym_sam_37_dd_rms vs run
χ² / ndf 2.075e+04 / 23
p0 108.4 ± 0.1595
180
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

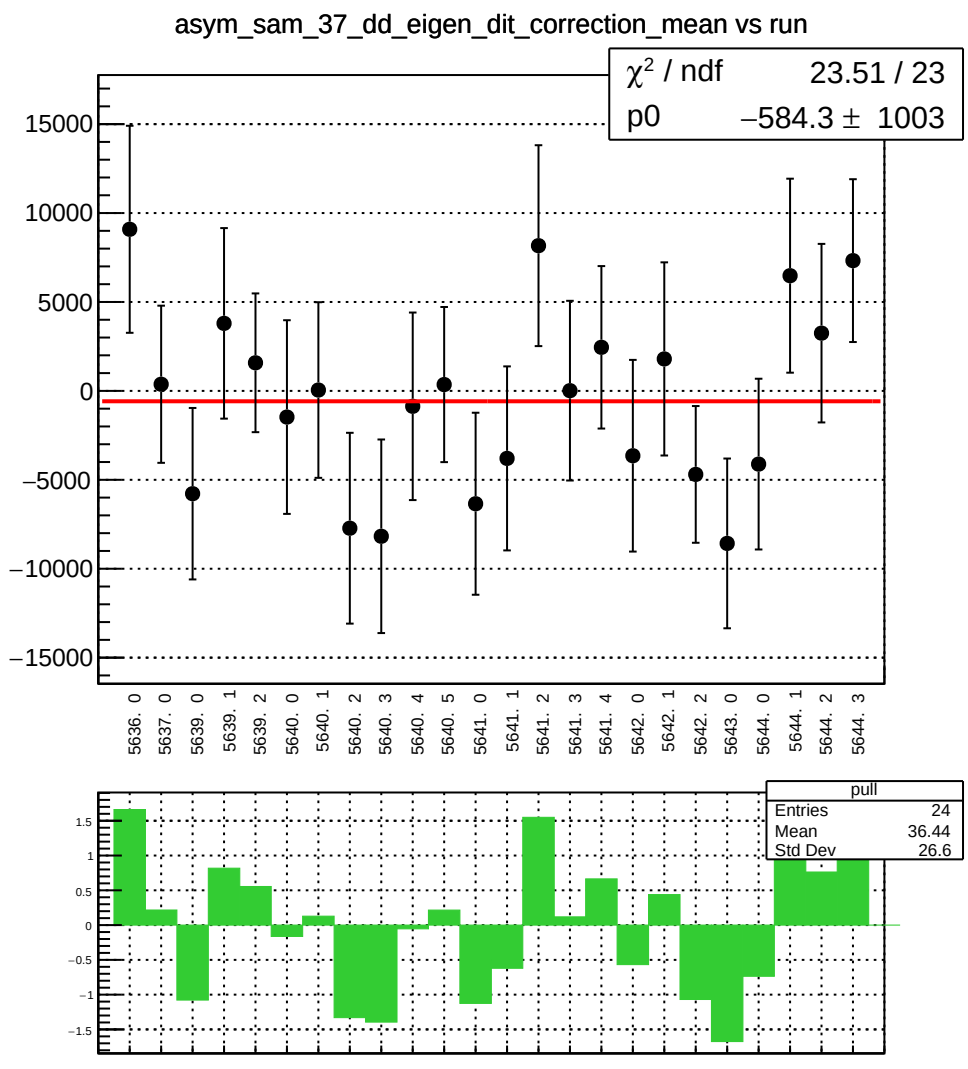

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 23.51 / 23
p0 −584.3 ± 1003
15000
10000
5000
0
−5000
−10000
−15000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 36.44
Std Dev 26.6
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.01406
Std Dev 0.9897
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

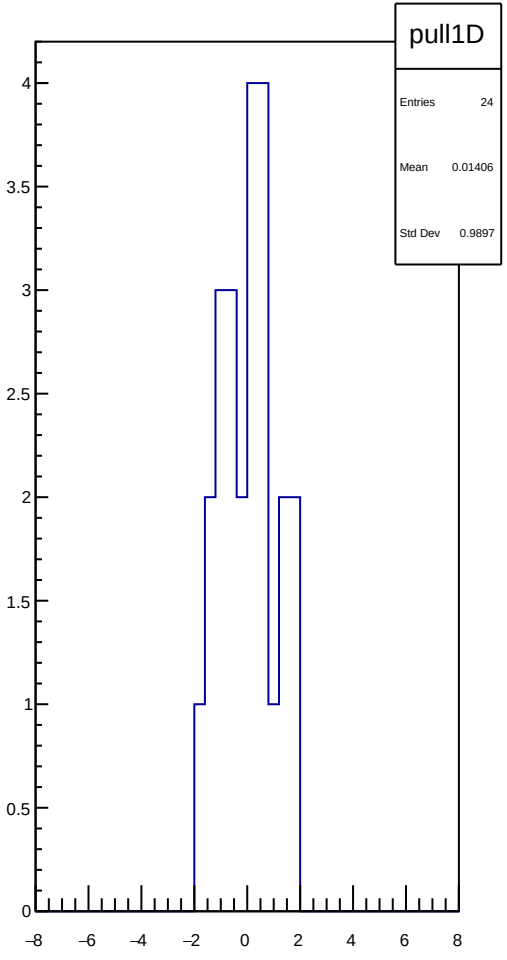

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 905.6 / 23
p0 492 ± 0.7091
540
520
500
480
460
440
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

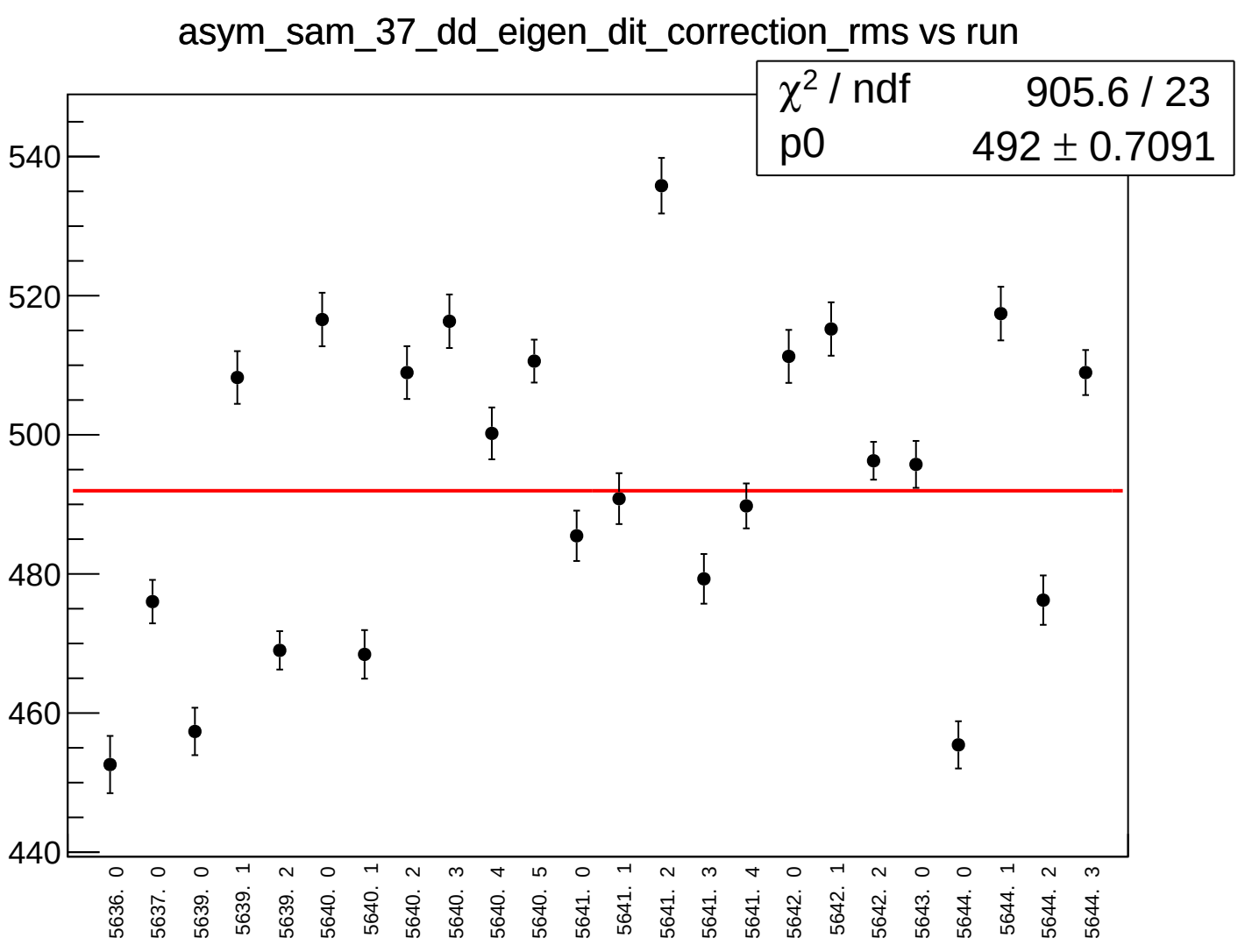

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 12.88 / 23
p0 303.4 ± 225.6
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 36.18
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

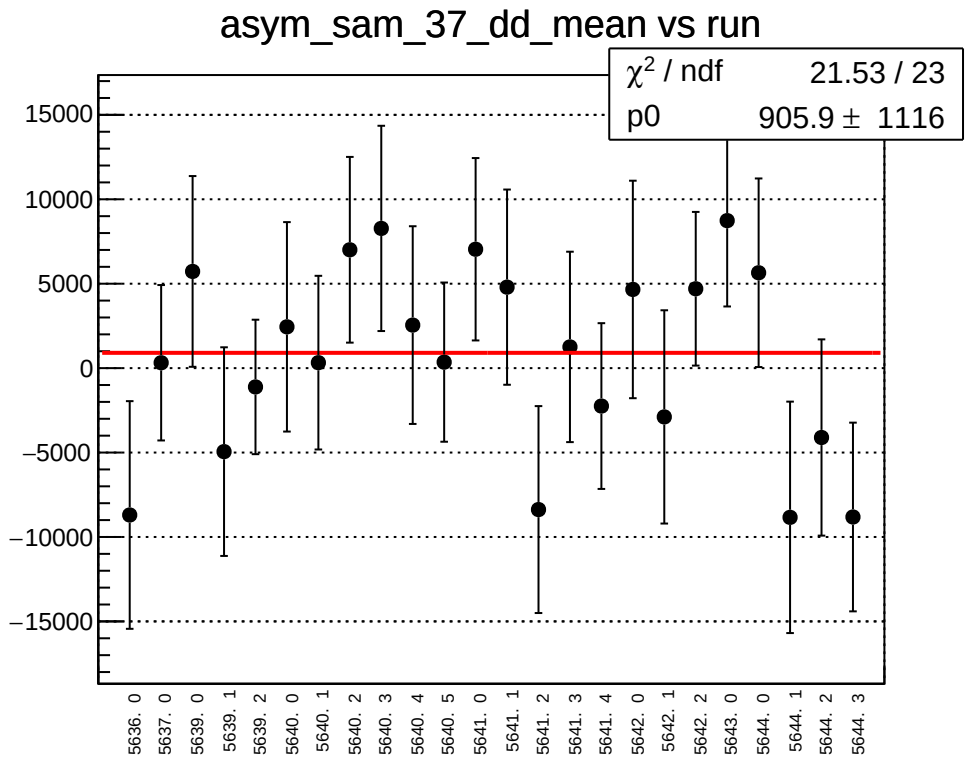

pull1D
Entries 24
Mean −0.06334
Std Dev 0.7297
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 2.075e+04 / 23
p0 108.4 ± 0.1595
180
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 23.51 / 23
p0 −584.3 ± 1003
15000
10000
5000
0
−5000
−10000
−15000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 36.44
Std Dev 26.6
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean 0.01406
Std Dev 0.9897
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_dd_eigen_dit_correction_rms vs run
χ² / ndf 905.6 / 23
p0 492 ± 0.7091
540
520
500
480
460
440
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_37_dd_mean vs run
χ² / ndf 21.53 / 23
p0 905.9 ± 1116
15000
10000
5000
0
−5000
−10000
−15000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5642. 0
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5643. 0
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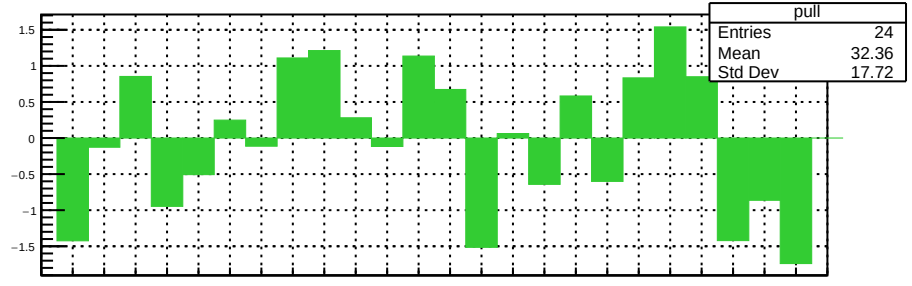
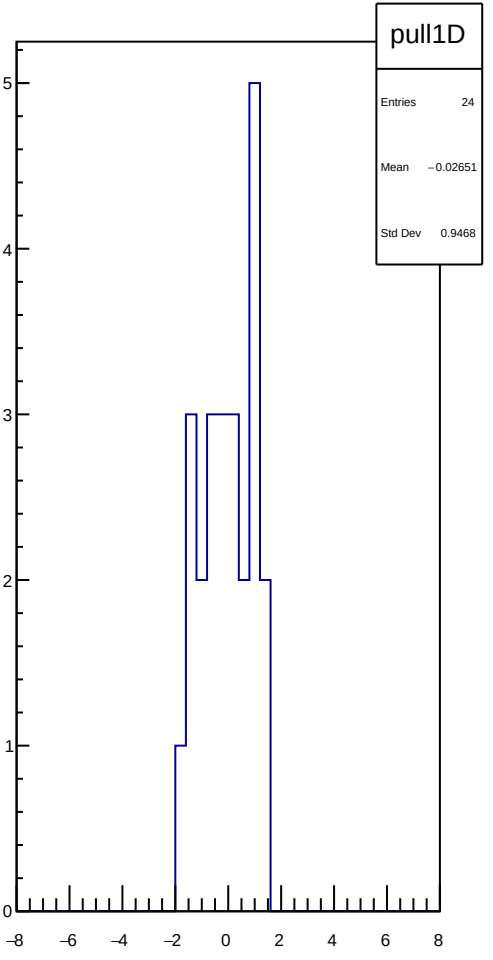
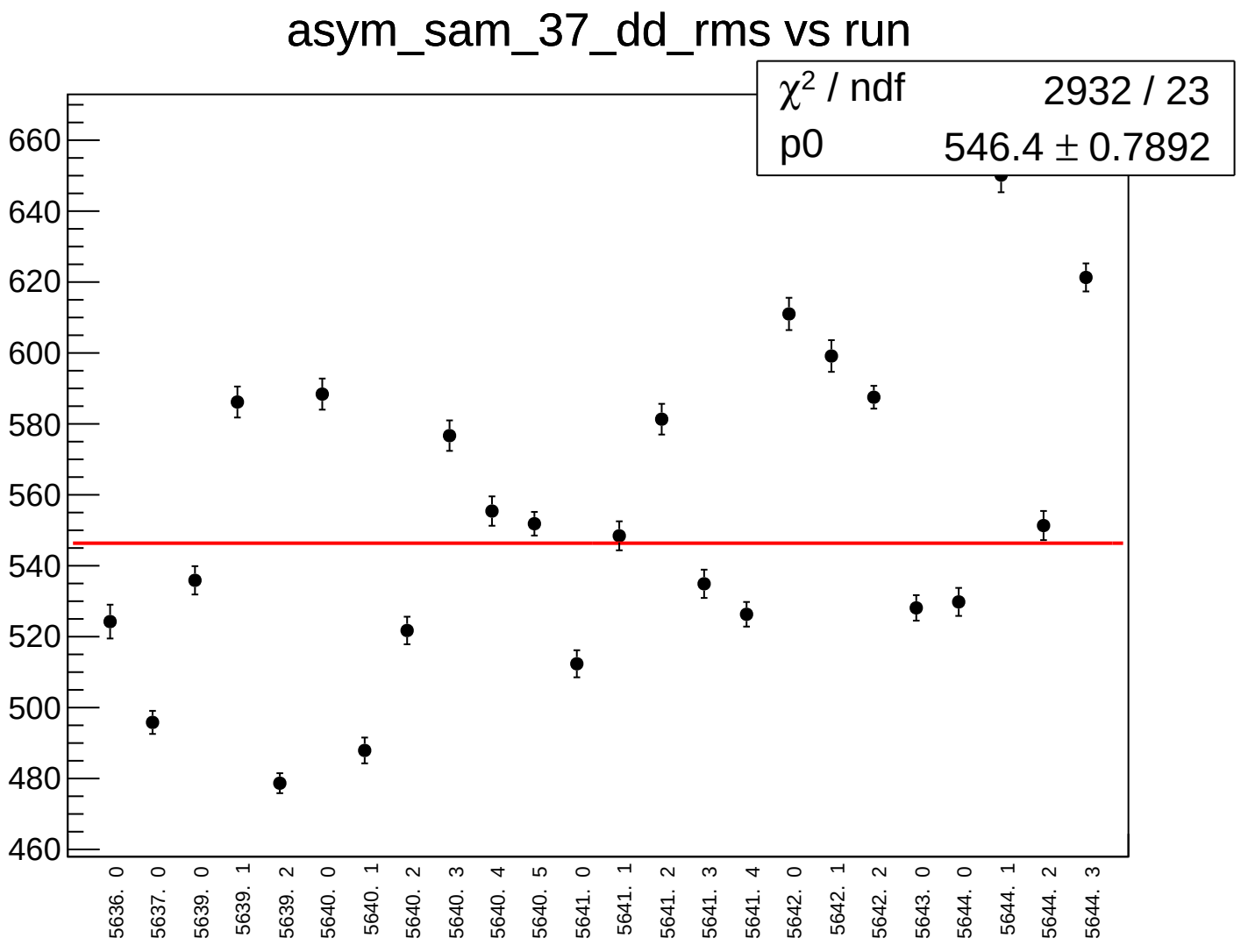
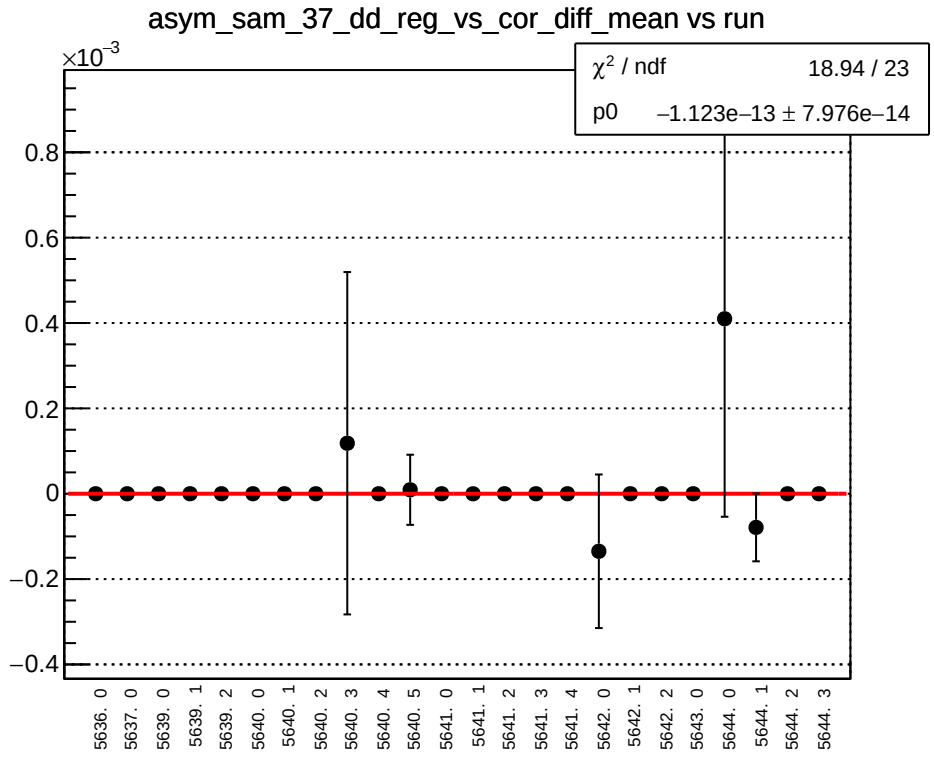
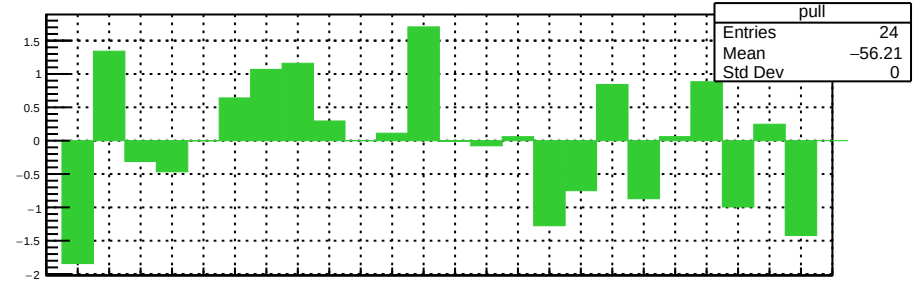
5644. 2
5644. 3

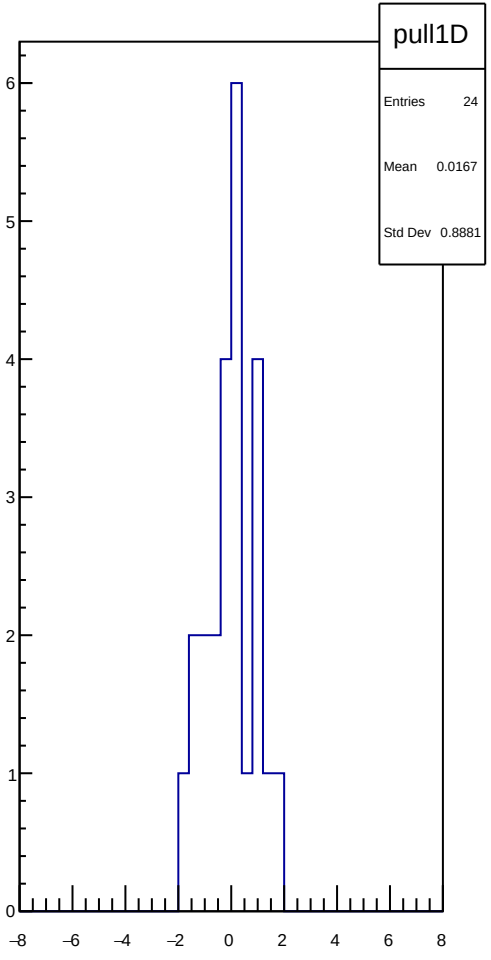

pull
Entries 24
Mean 32.36
Std Dev 17.72
1.5
1
0.5
0
−0.5
−1
−1.5

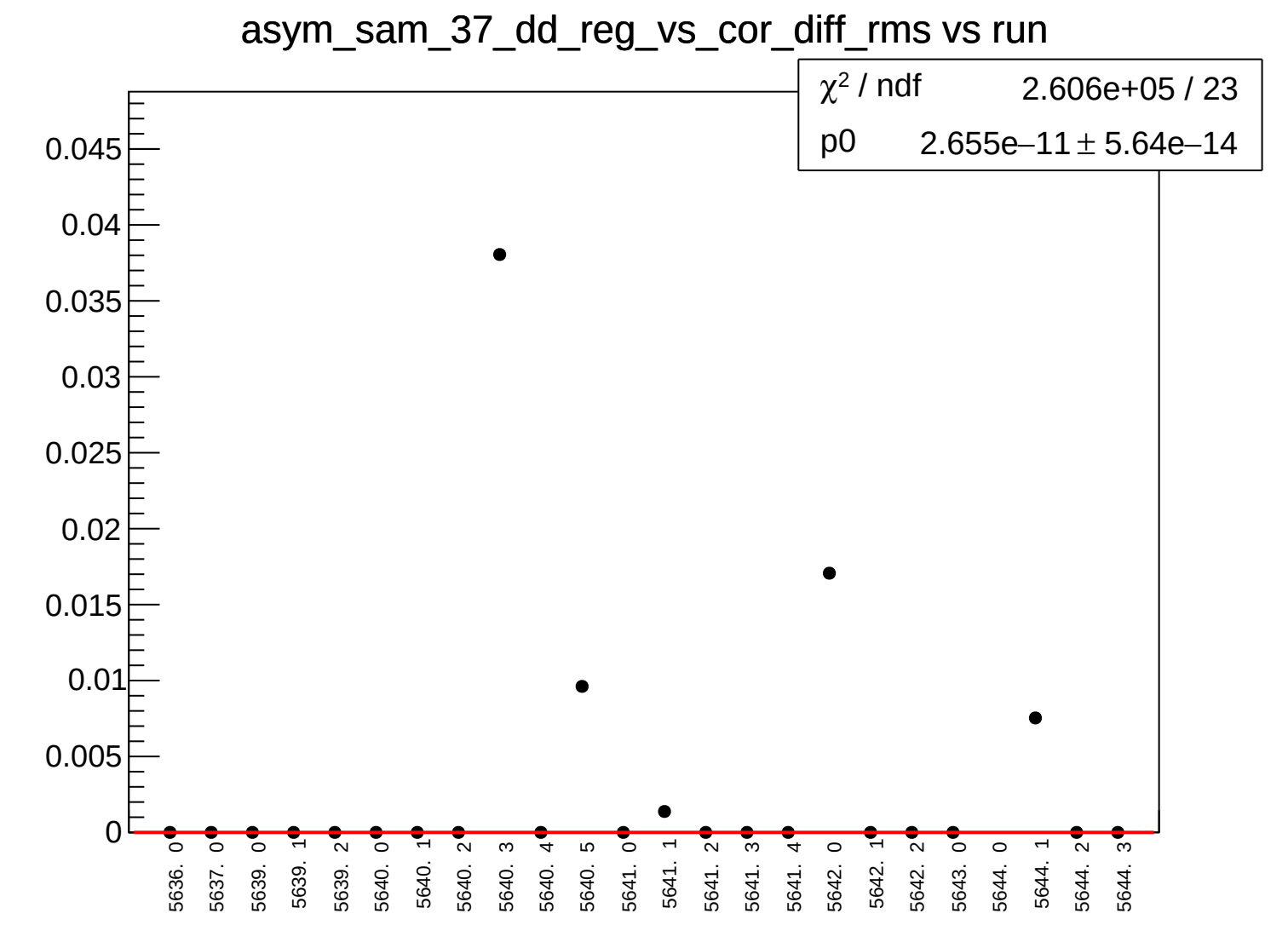

pull1D
Entries 24
Mean −0.02651
Std Dev 0.9468
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

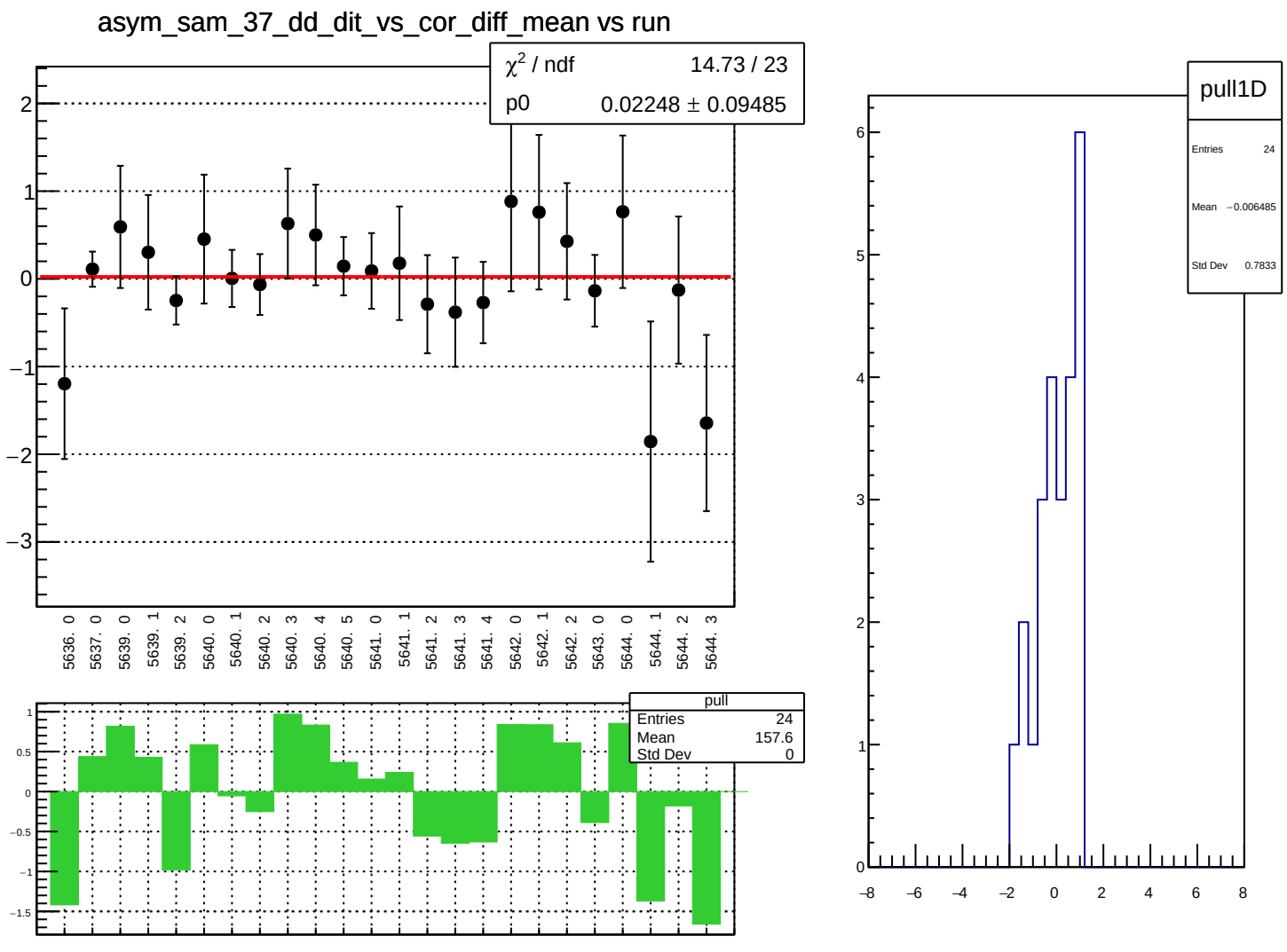

asym_sam_37_dd_rms vs run
χ² / ndf 2932 / 23
p0 546.4 ± 0.7892
660
640
620
600
580
560
540
520
500
480
460
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

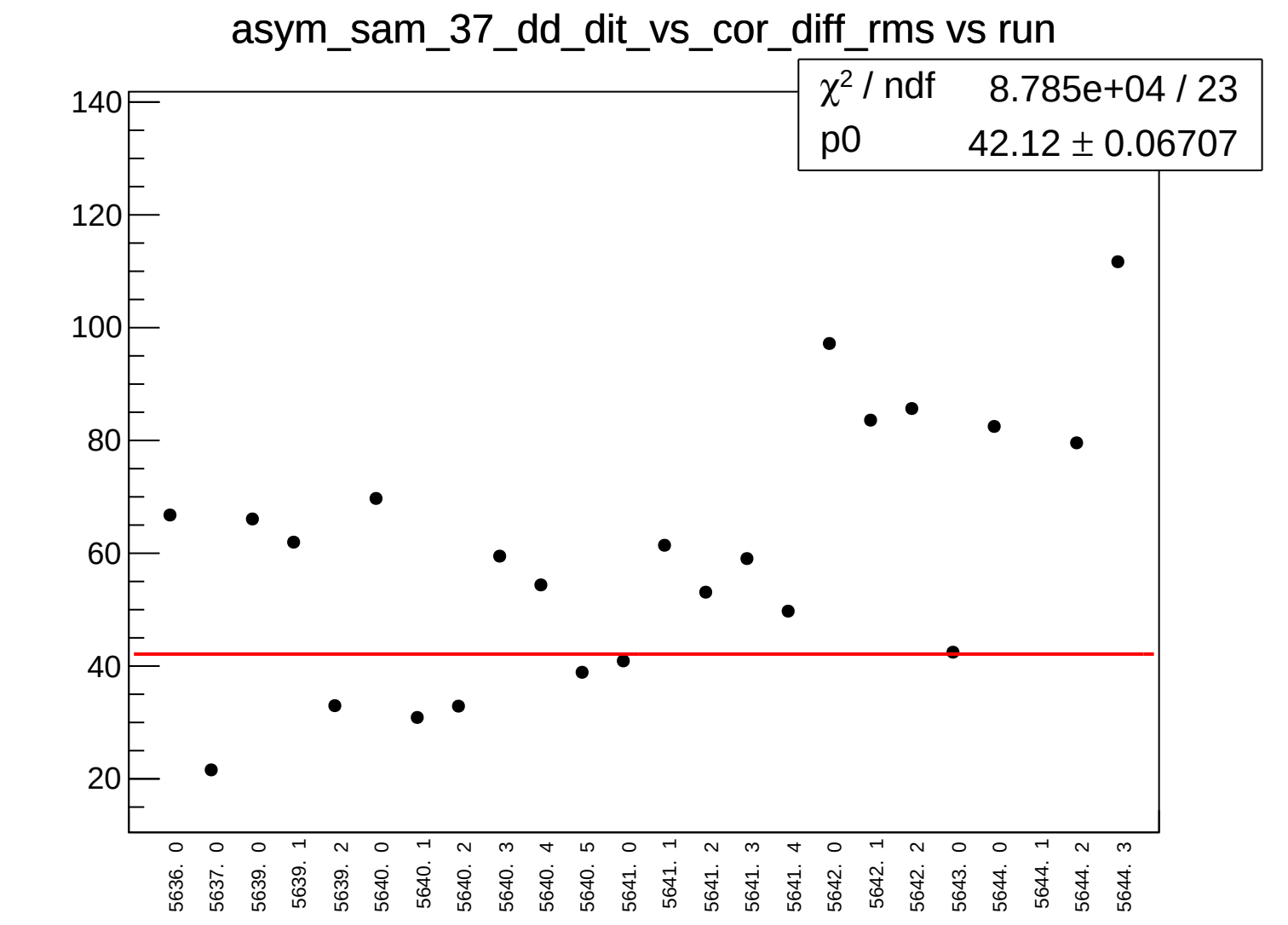

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 18.94 / 23
p0 −1.123e−13 ± 7.976e−14
0.8
0.6
0.4
0.2
0
−0.2
−0.4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

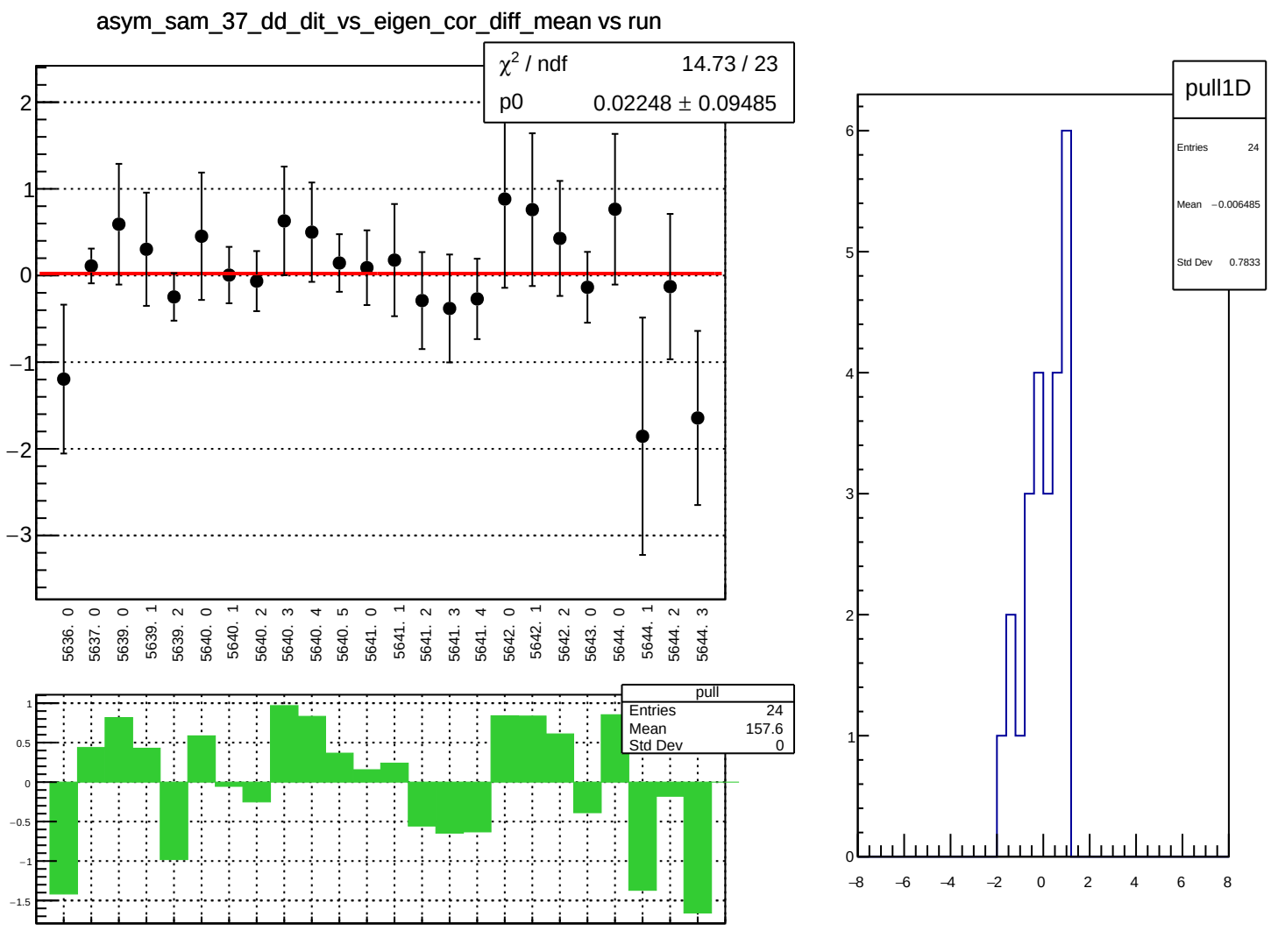

pull
Entries 24
Mean −56.21
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

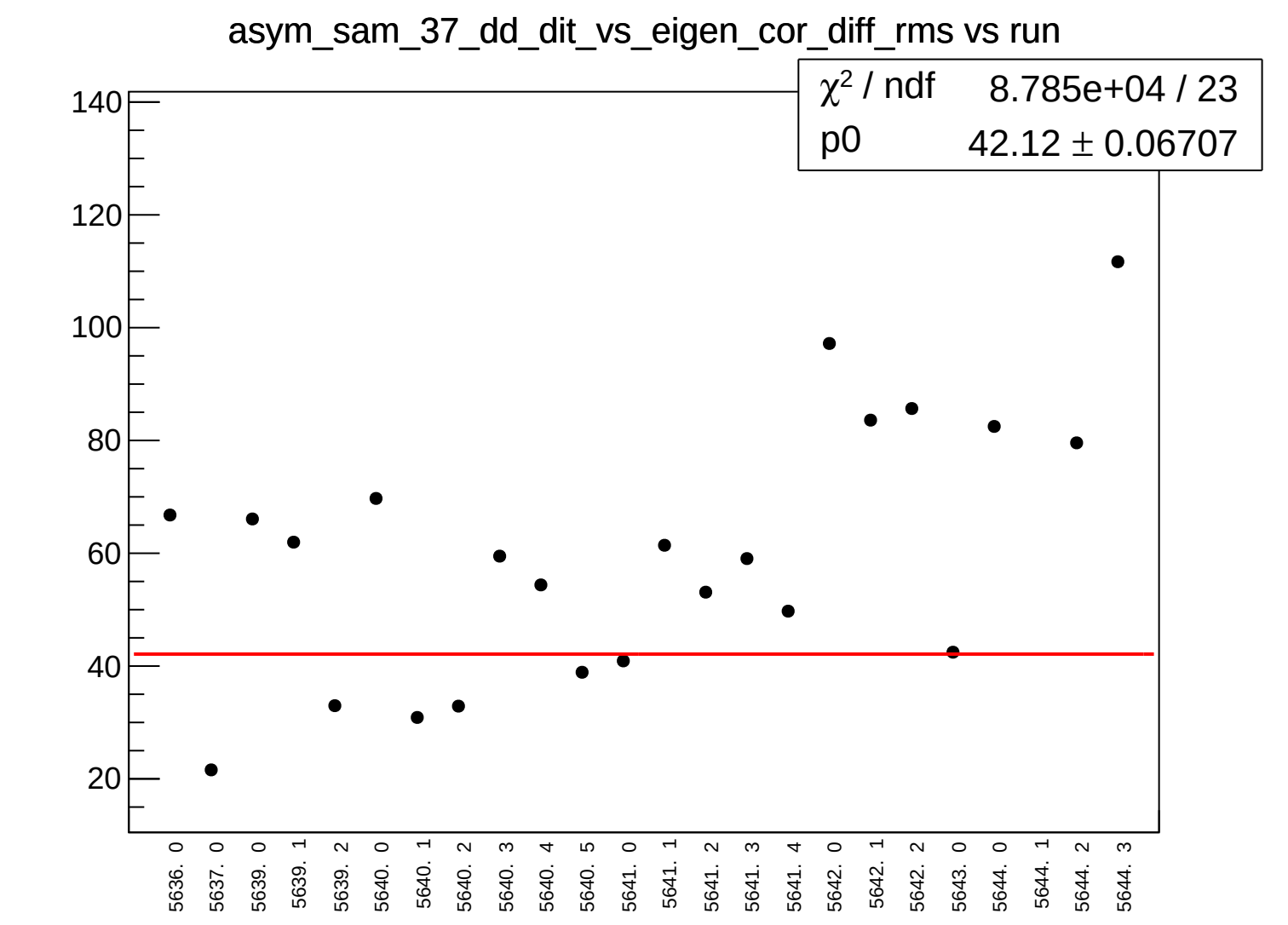

pull1D
Entries 24
Mean 0.0167
Std Dev 0.8881
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.606e+05 / 23
p0 2.655e−11 ± 5.64e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 14.73 / 23
p0 0.02248 ± 0.09485
2
1
0
−1
−2
−3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 157.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.006485
Std Dev 0.7833
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.785e+04 / 23
p0 42.12 ± 0.06707
140
120
100
80
60
40
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 14.73 / 23
p0 0.02248 ± 0.09485
2
1
0
−1
−2
−3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 157.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.006485
Std Dev 0.7833
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.785e+04 / 23
p0 42.12 ± 0.06707
140
120
100
80
60
40
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
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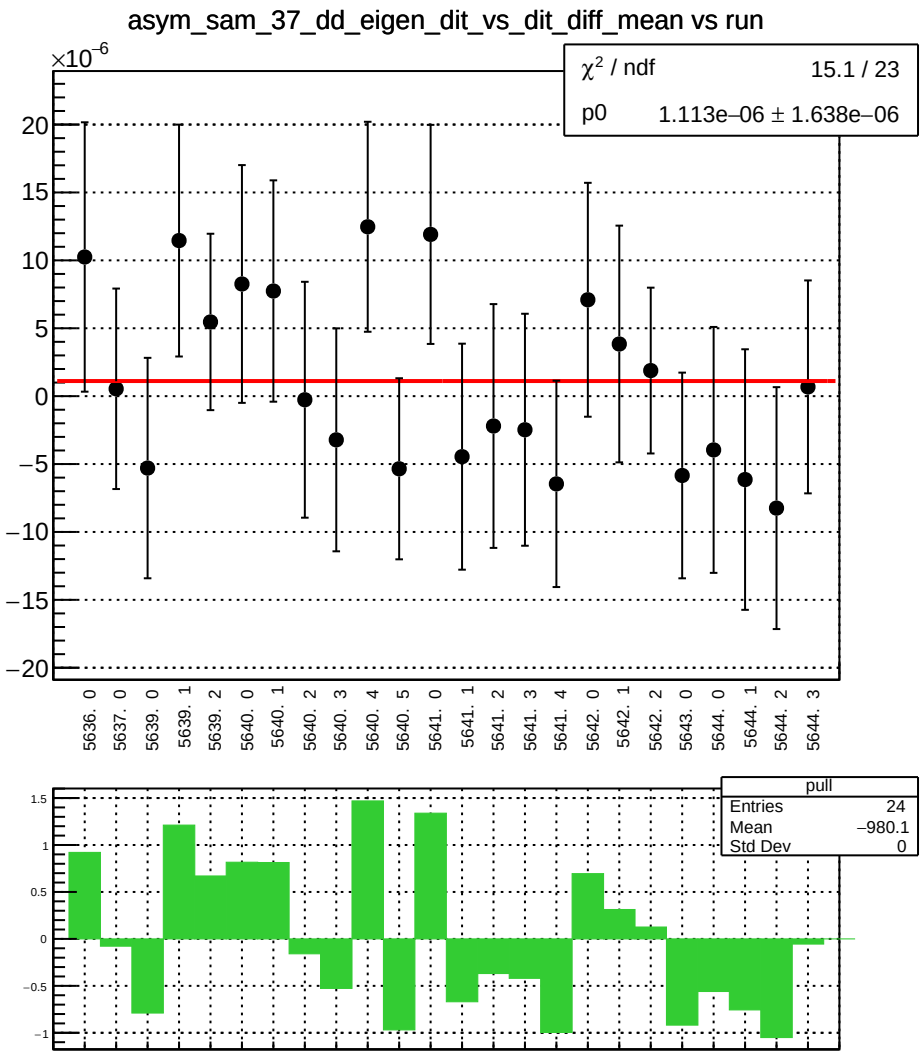
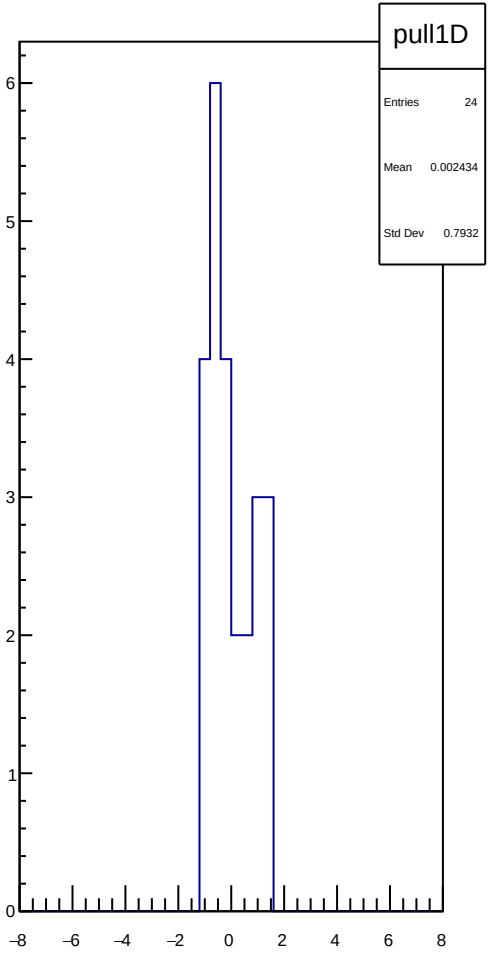
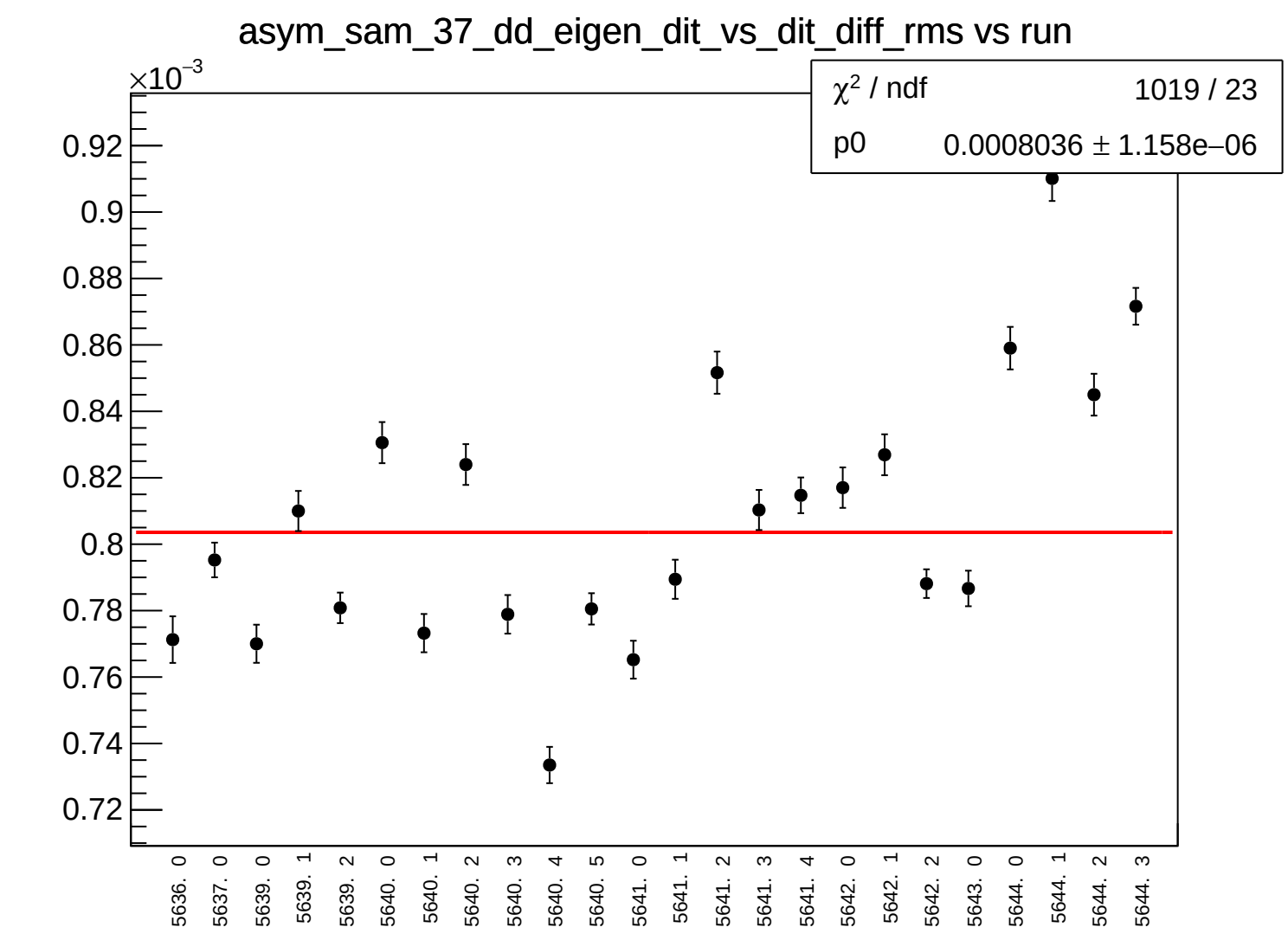
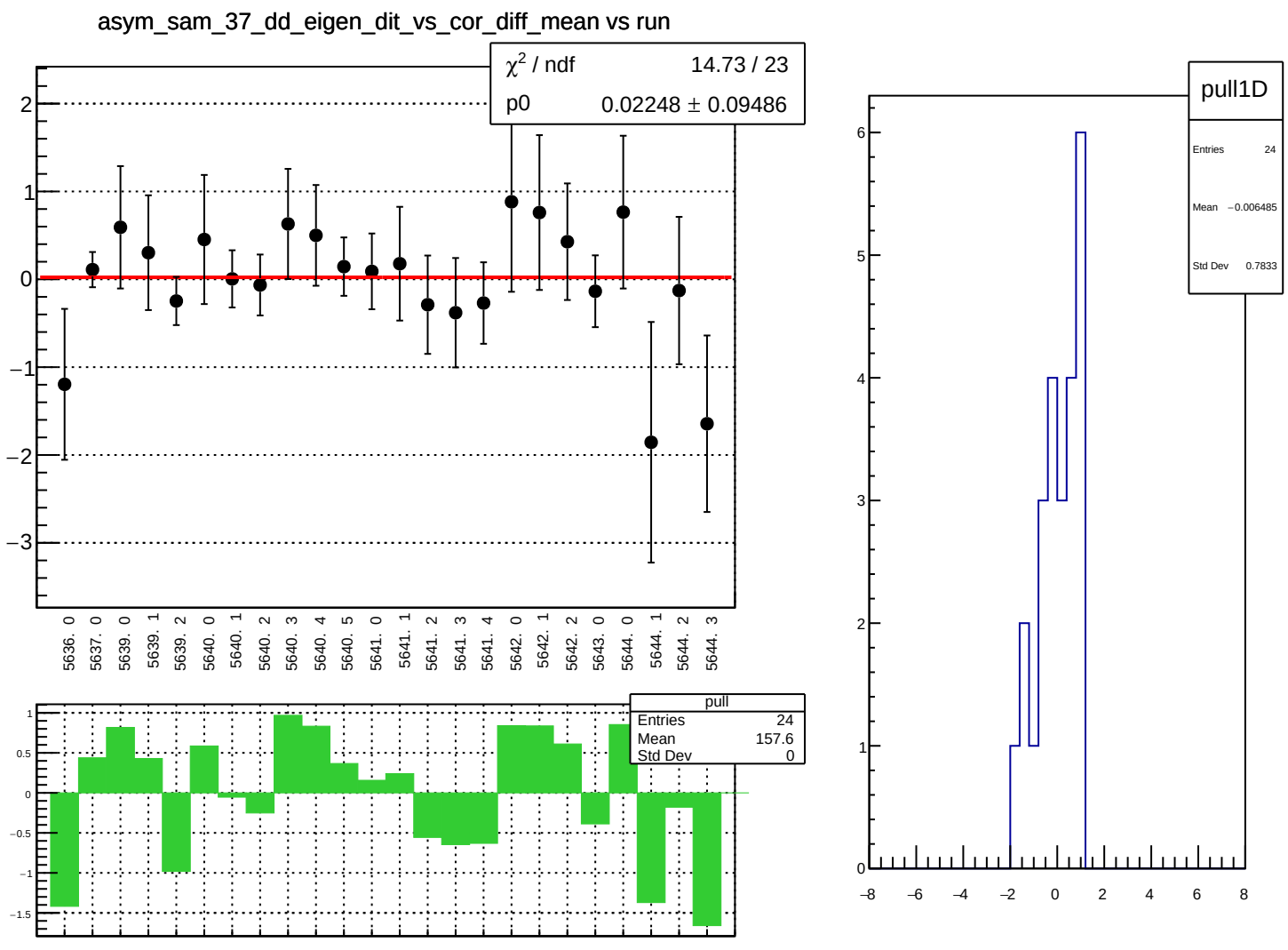
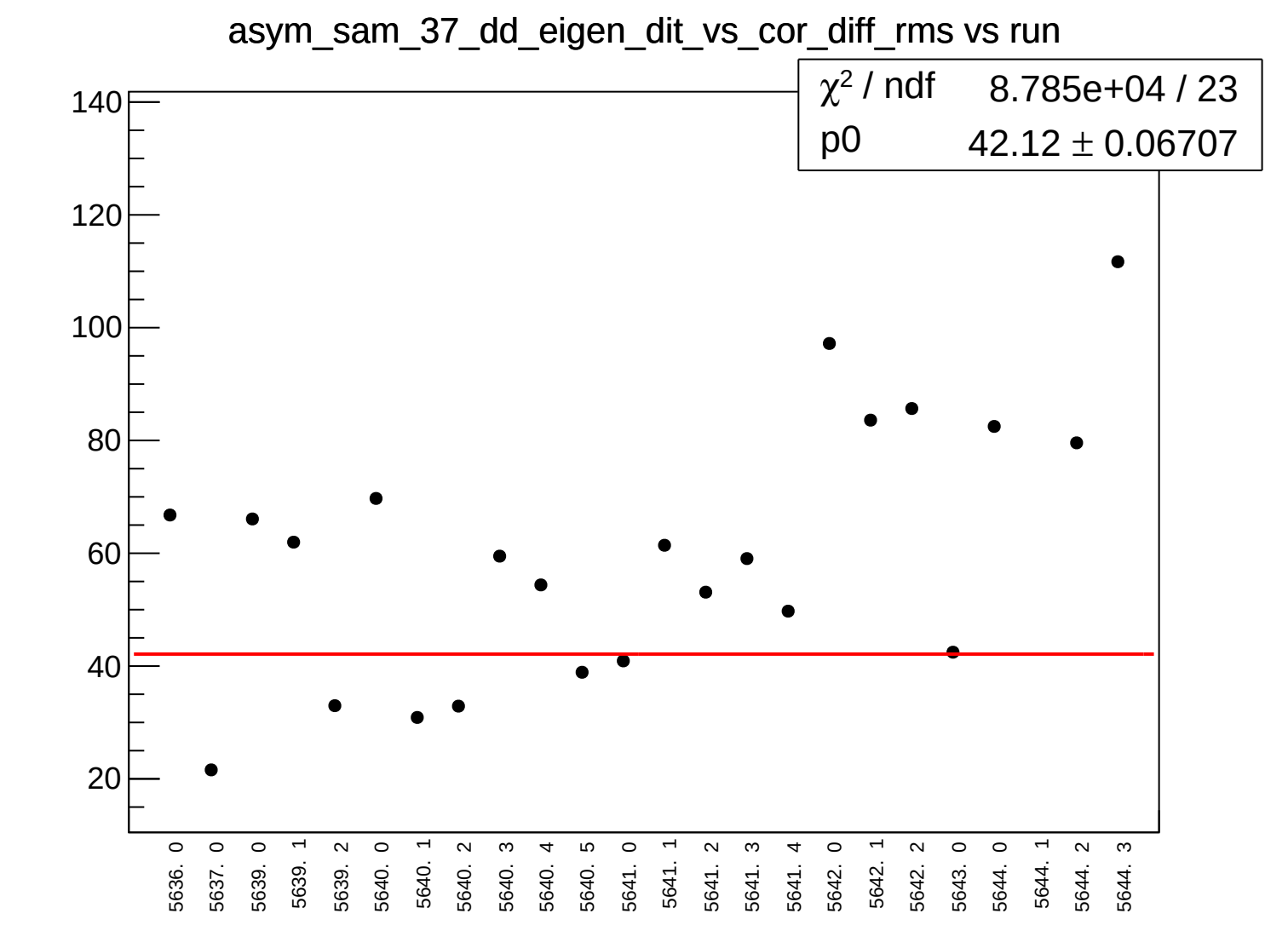
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

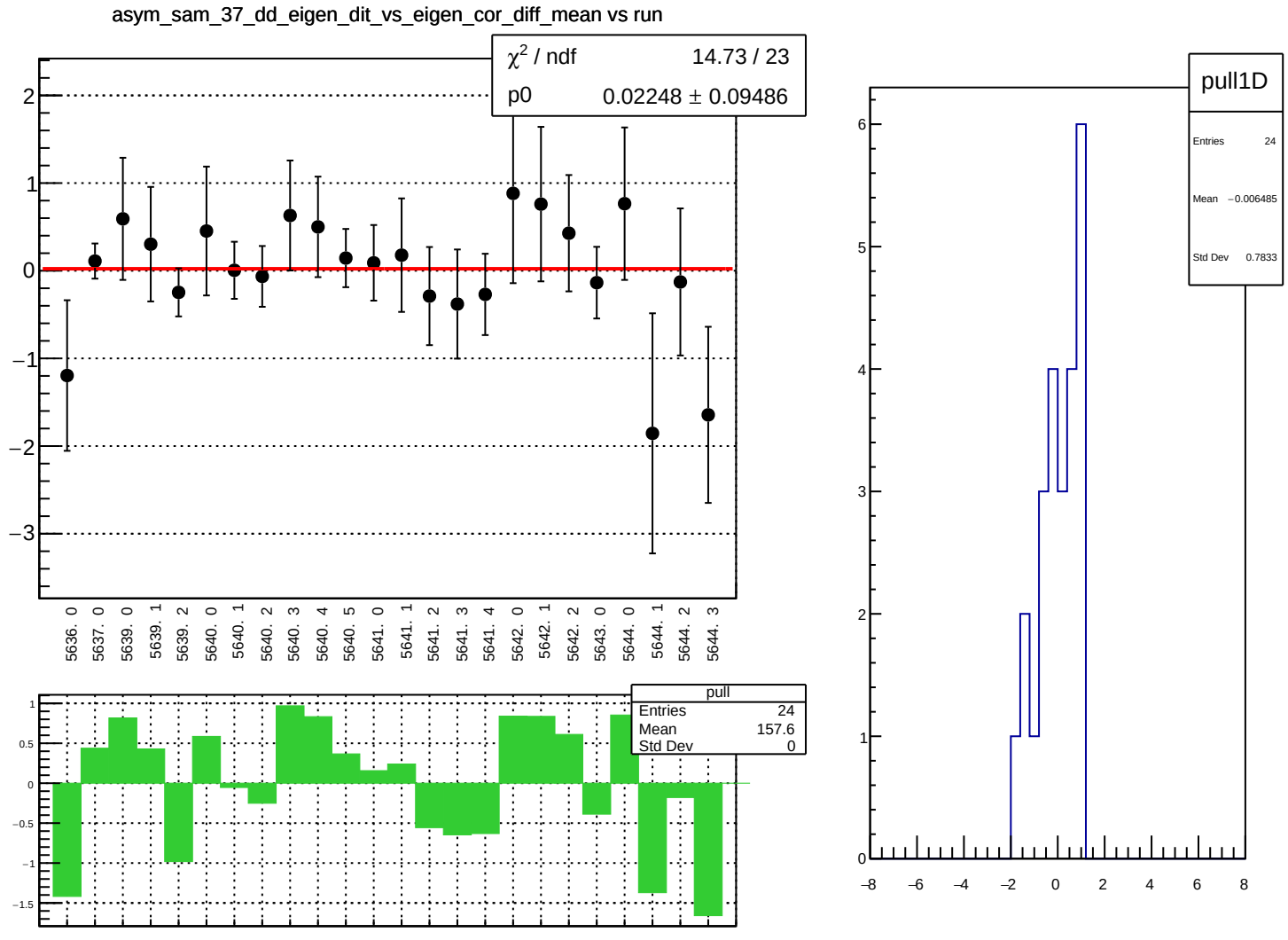

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 15.1 / 23
p0 1.113e−06 ± 1.638e−06
20
15
10
5
0
−5
−10
−15
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −980.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1

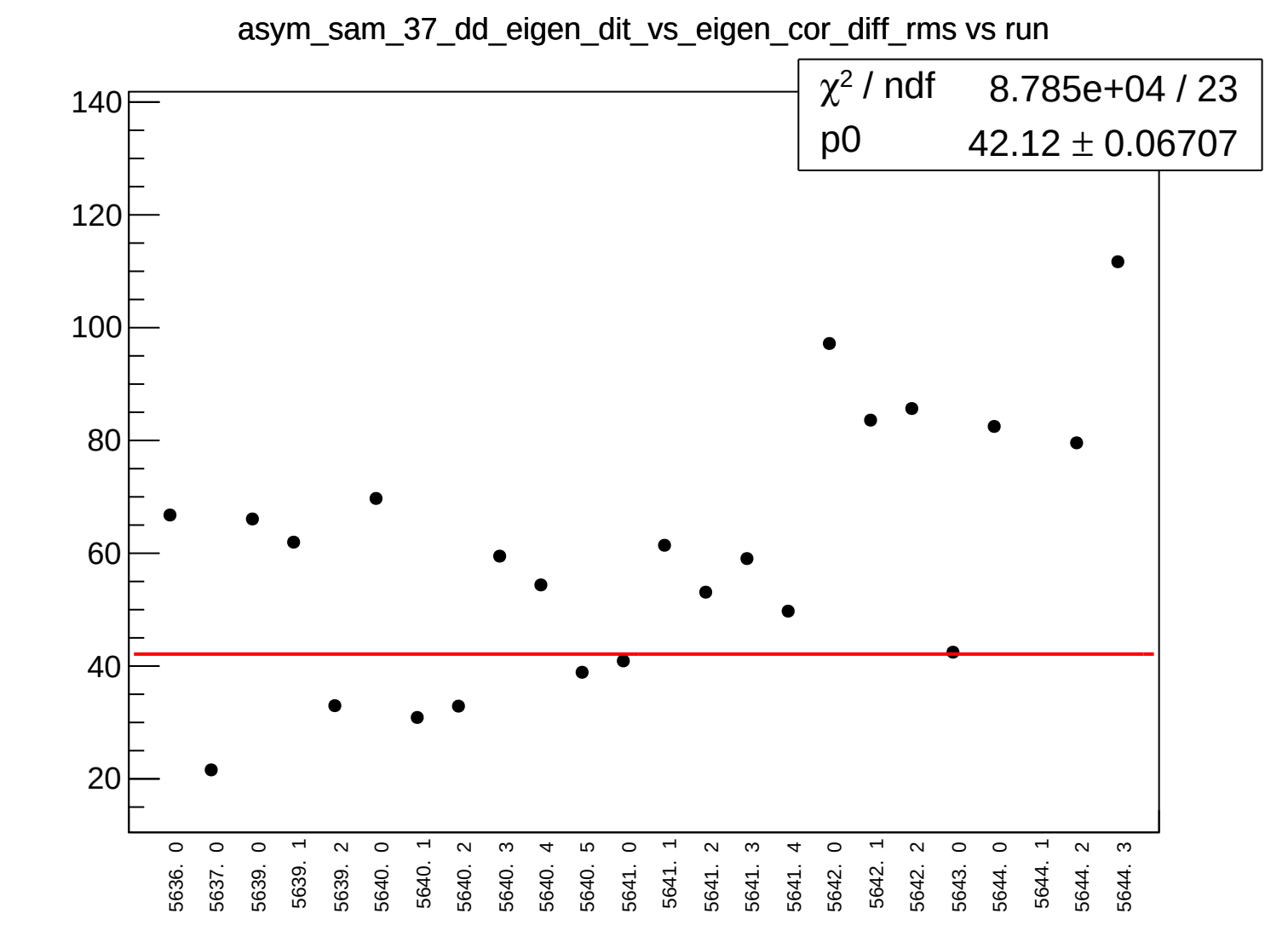

pull1D
Entries 24
Mean 0.002434
Std Dev 0.7932
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

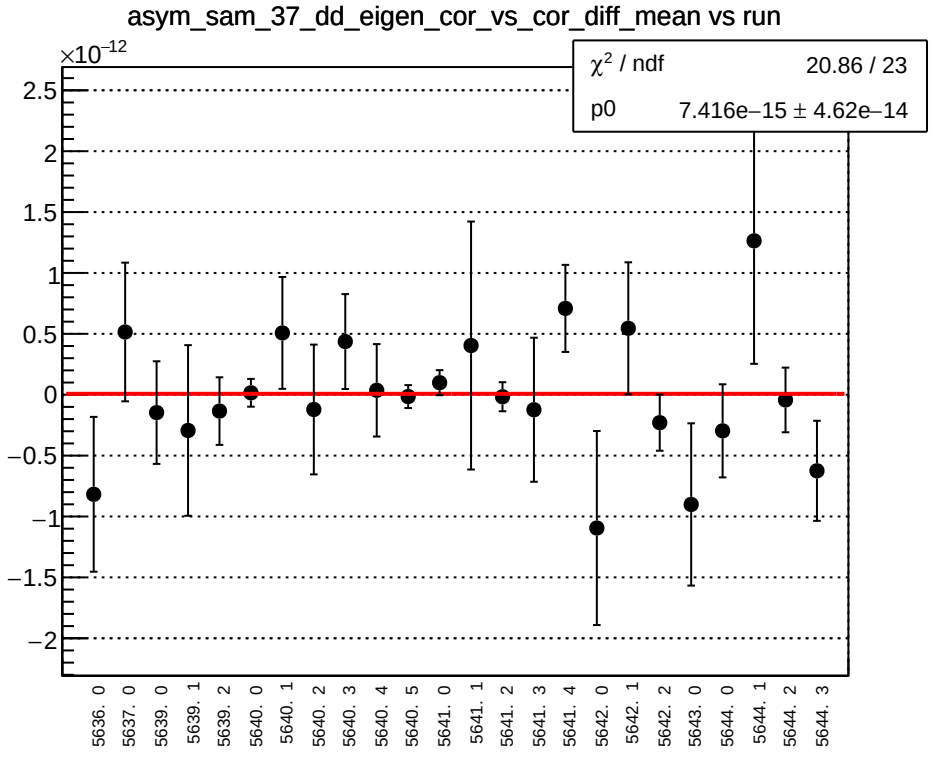

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1019 / 23
p0 0.0008036 ± 1.158e−06
0.92
0.9
0.88
0.86
0.84
0.82
0.8
0.78
0.76
0.74
0.72
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

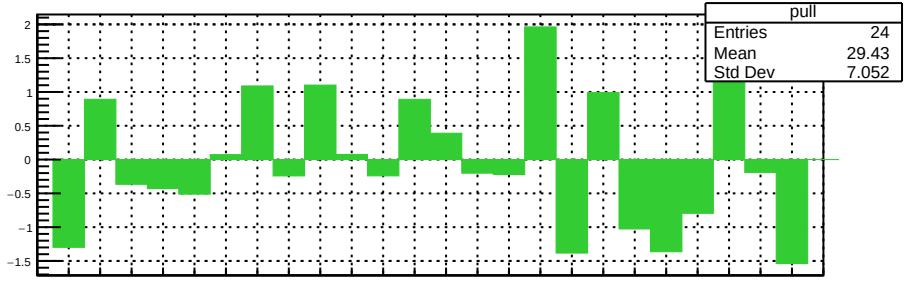

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 14.73 / 23
p0 0.02248 ± 0.09486
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 157.6
Std Dev 0
pull1D
Entries 24
Mean −0.006485
Std Dev 0.7833

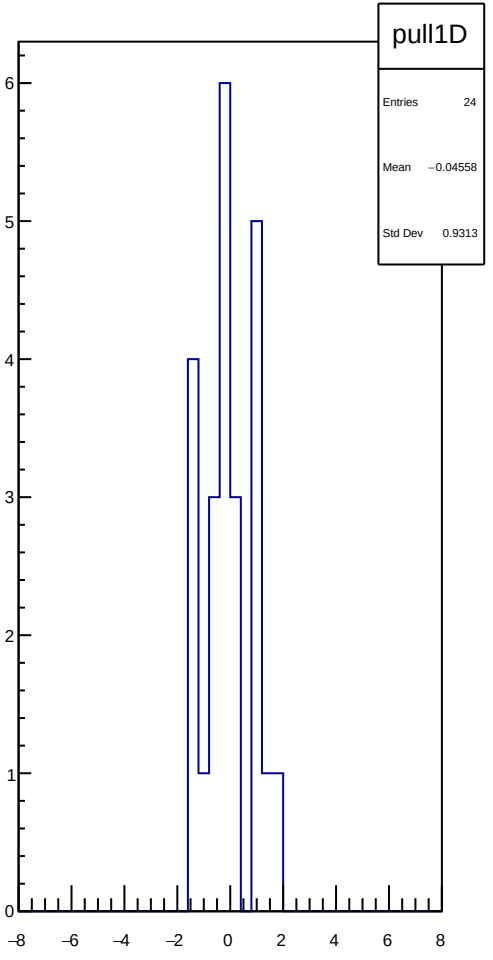

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.785e+04 / 23
p0 42.12 ± 0.06707
140
120
100
80
60
40
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

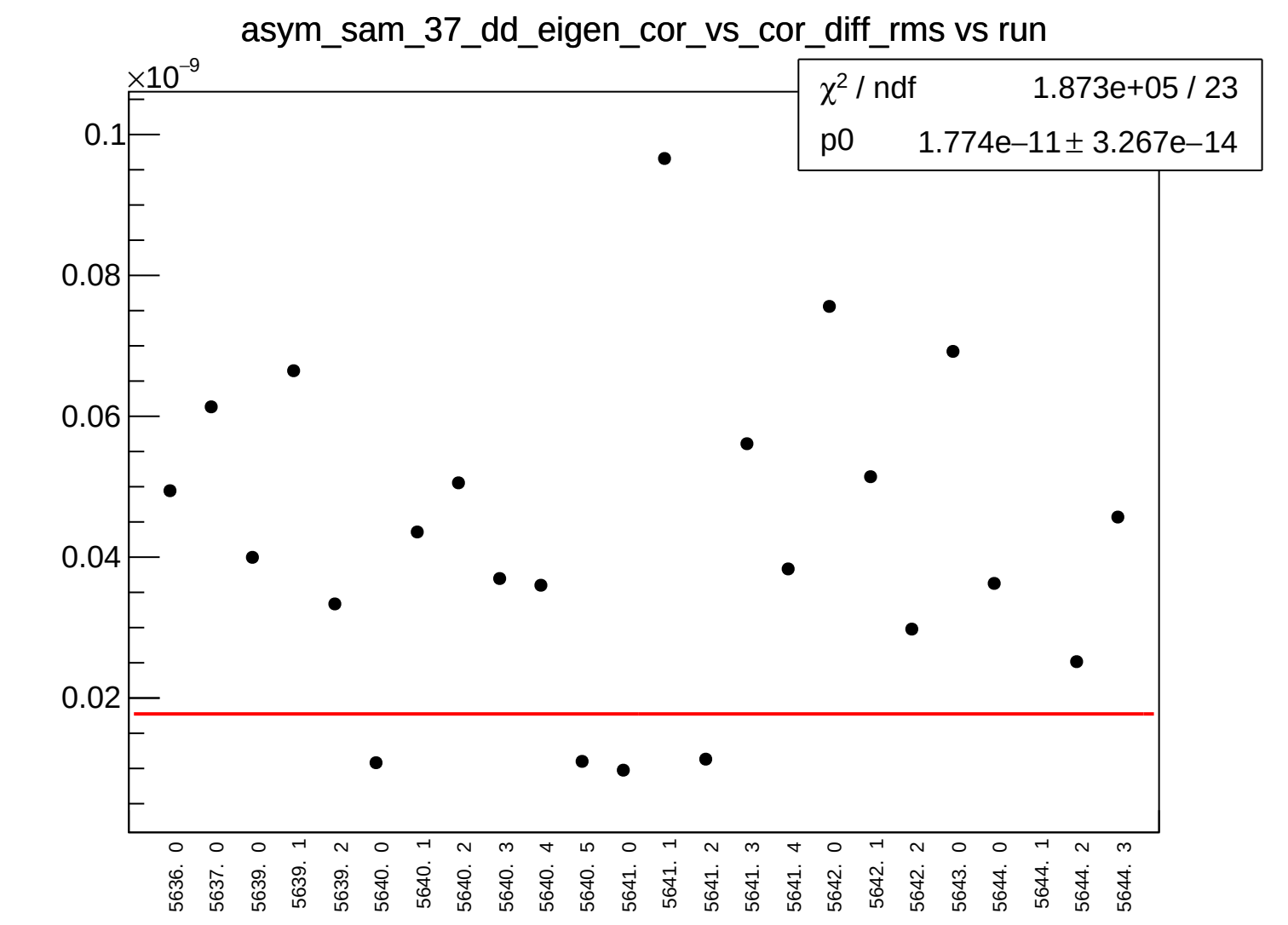

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 14.73 / 23
p0 0.02248 ± 0.09486
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 157.6
Std Dev 0
pull1D
Entries 24
Mean −0.006485
Std Dev 0.7833

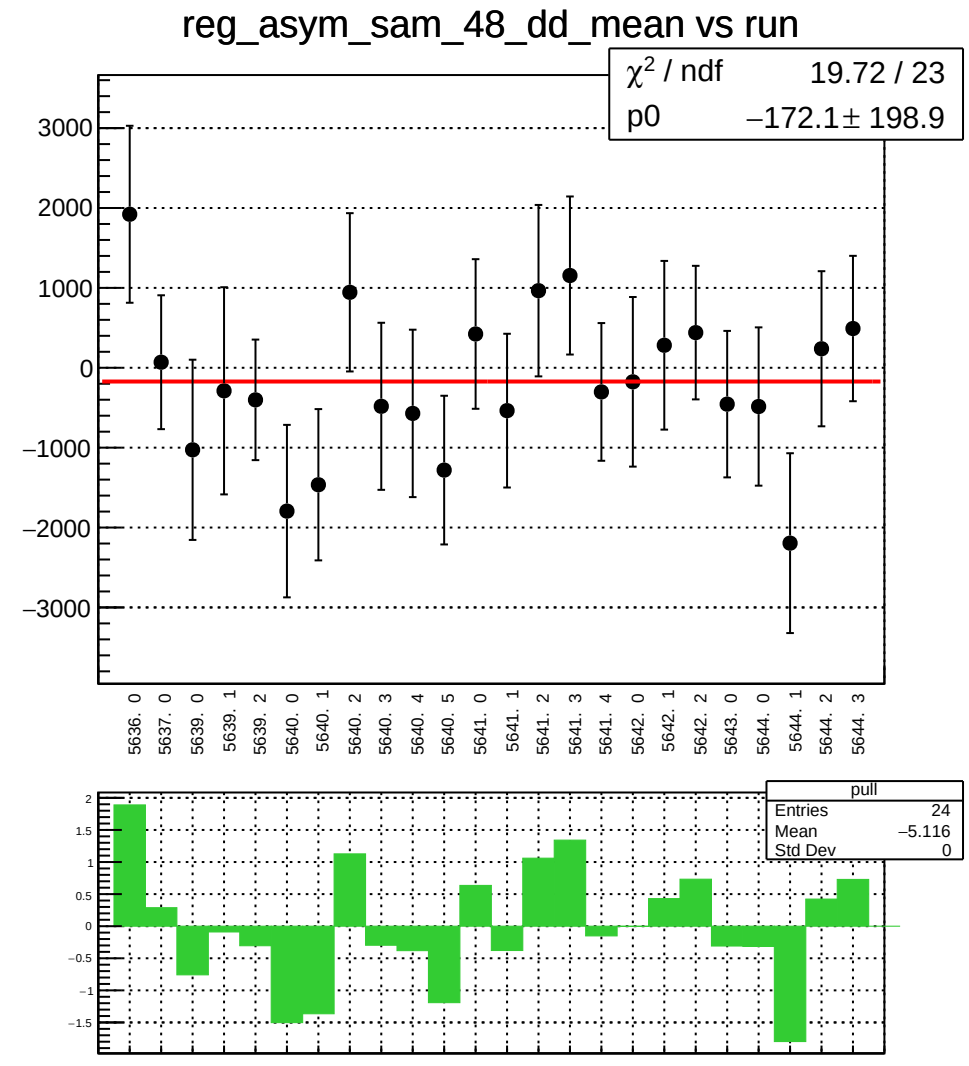

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.785e+04 / 23
p0 42.12 ± 0.06707
140
120
100
80
60
40
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

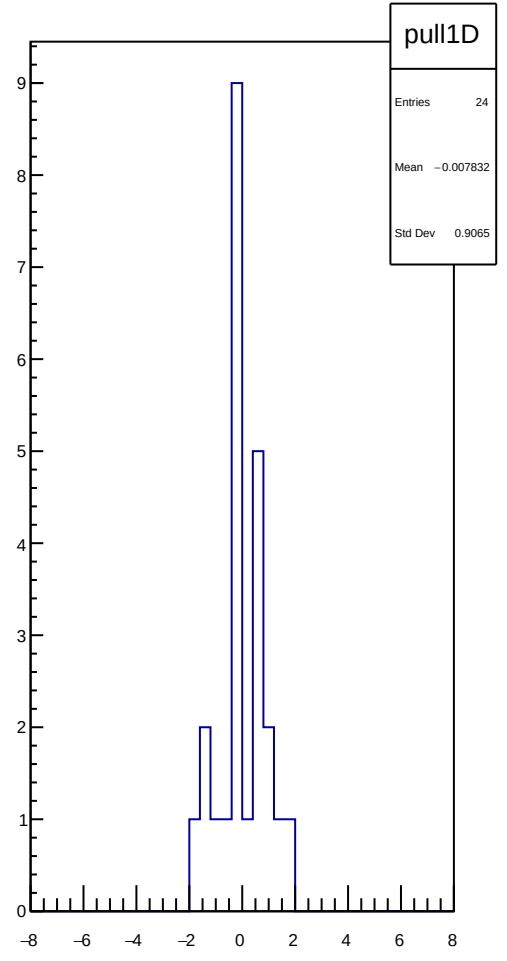

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 20.86 / 23
p0 7.416e−15 ± 4.62e−14
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

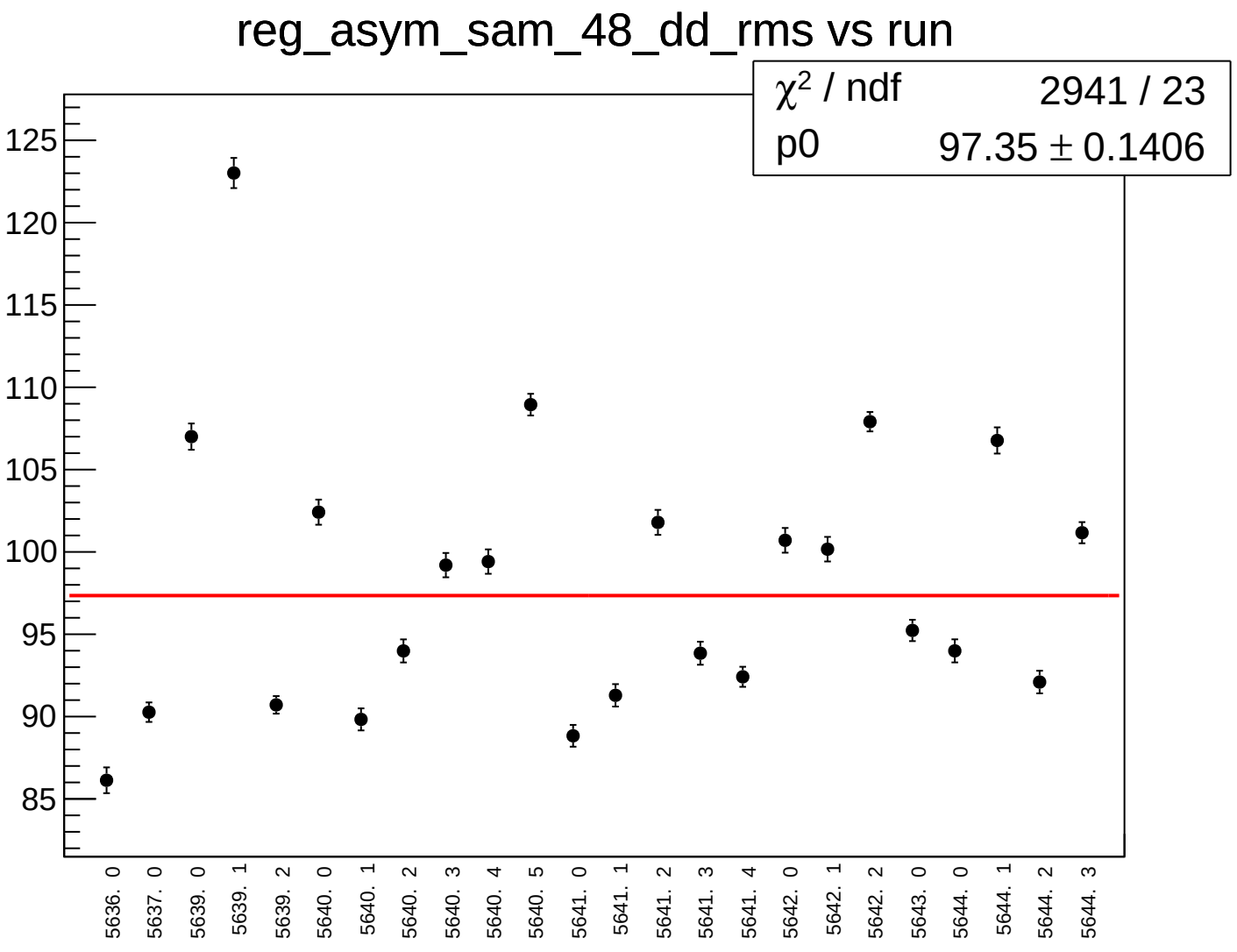

pull
Entries 24
Mean 29.43
Std Dev 7.052
2
1.5
1
0.5
0
−0.5
−1
−1.5

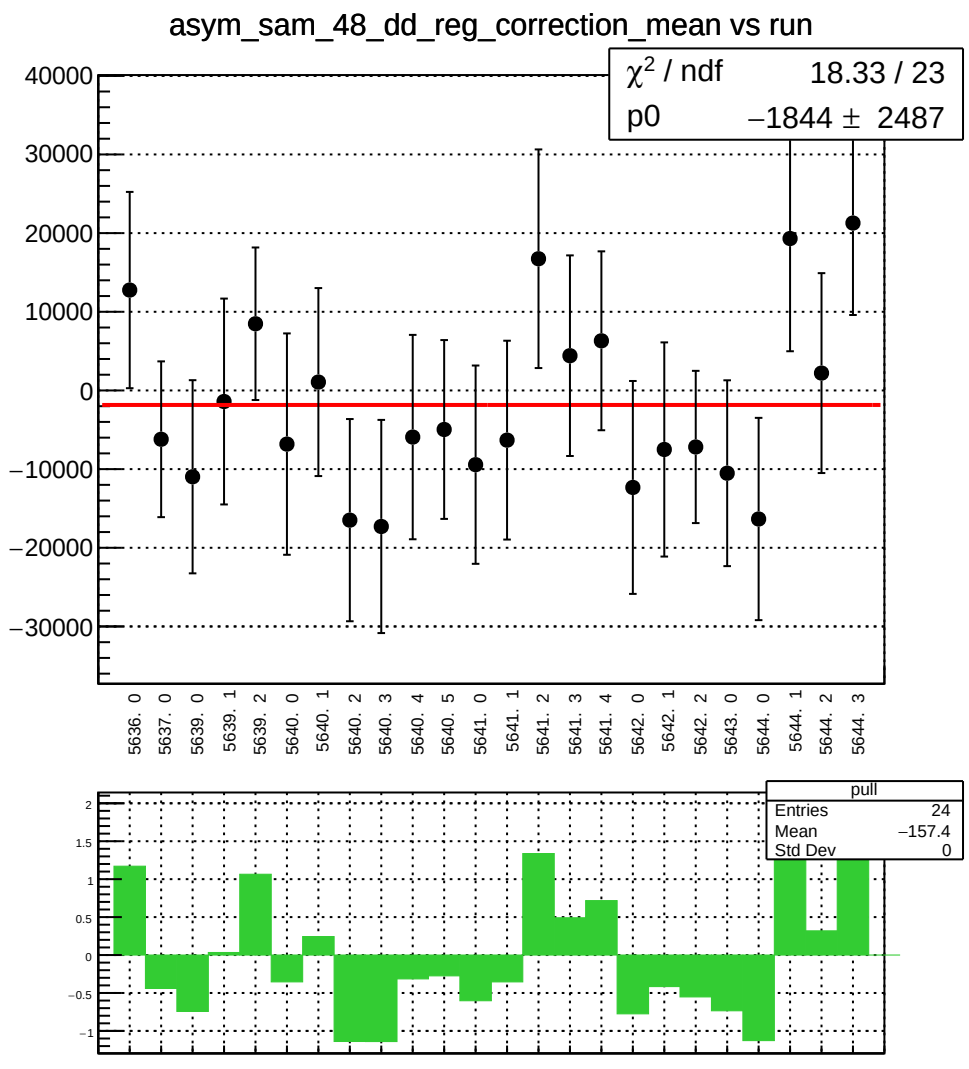

pull1D
Entries 24
Mean −0.04558
Std Dev 0.9313
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

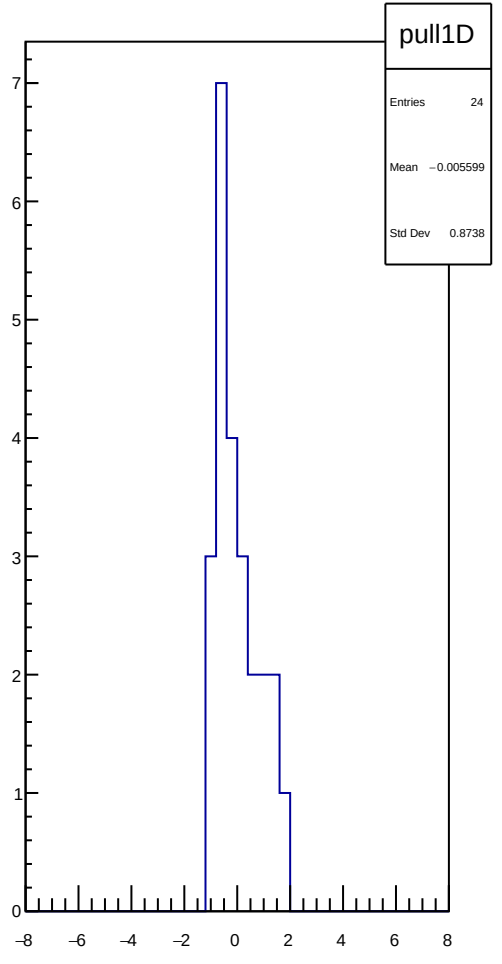

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.873e+05 / 23
p0 1.774e−11 ± 3.267e−14
0.1
0.08
0.06
0.04
0.02
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

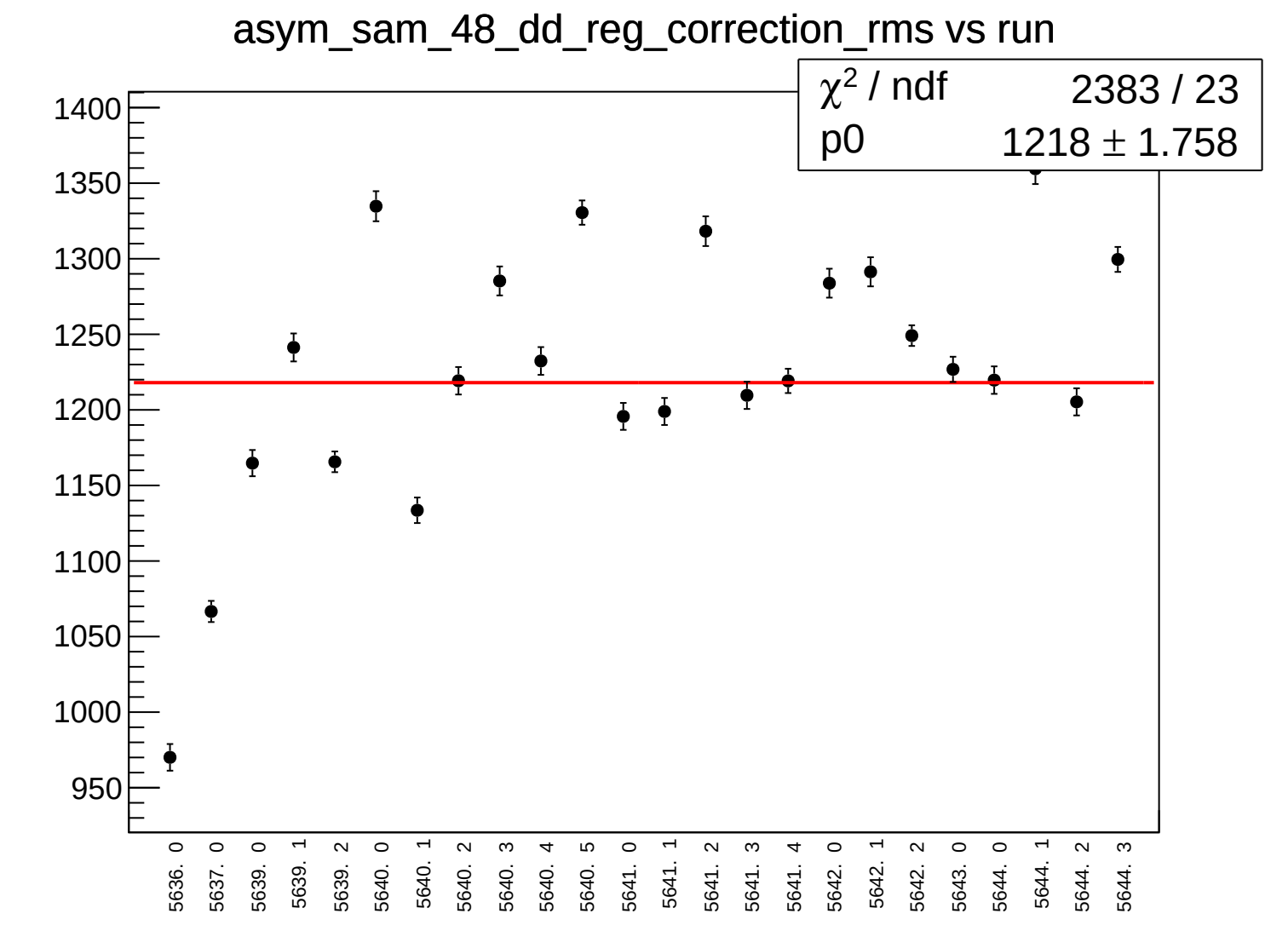

reg_asym_sam_48_dd_mean vs run
χ² / ndf 19.72 / 23
p0 −172.1± 198.9
3000
2000
1000
0
−1000
−2000
−3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −5.116
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

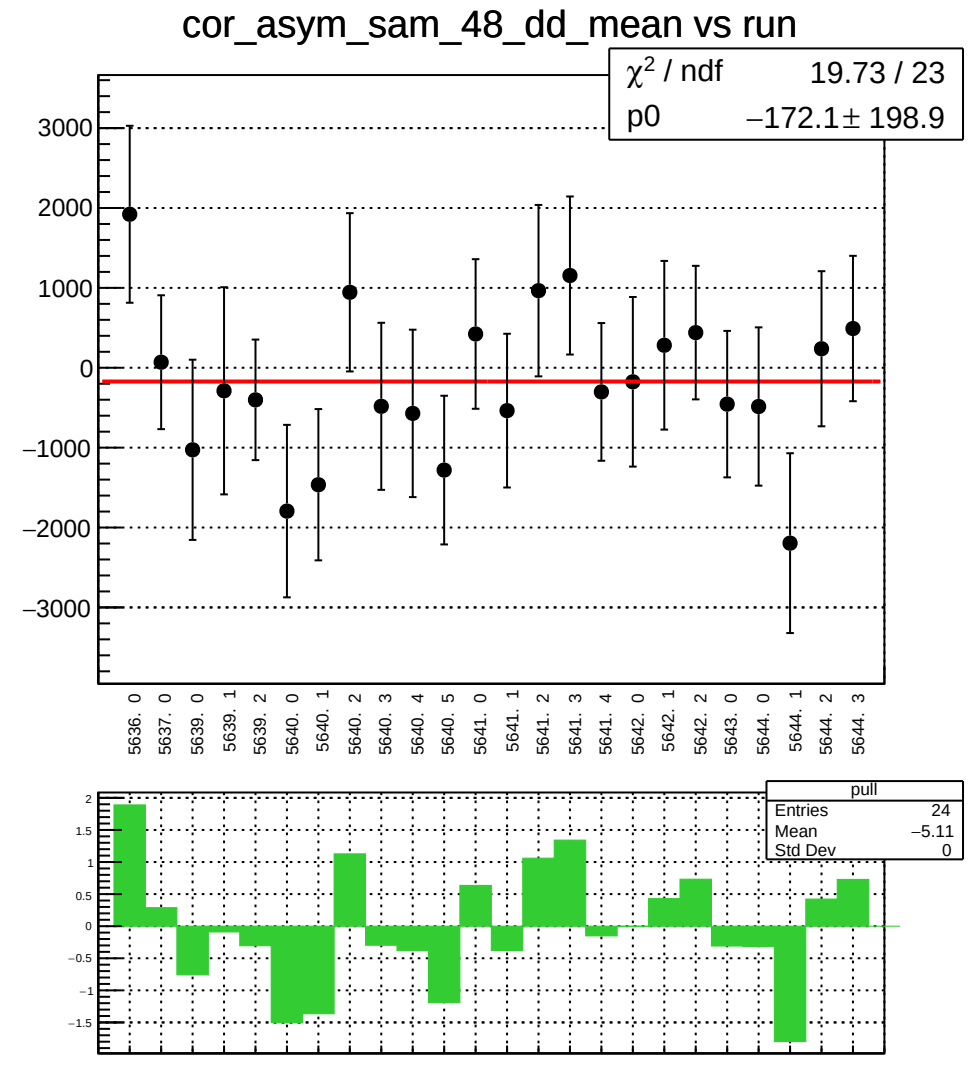

pull1D
Entries 24
Mean −0.007832
Std Dev 0.9065
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

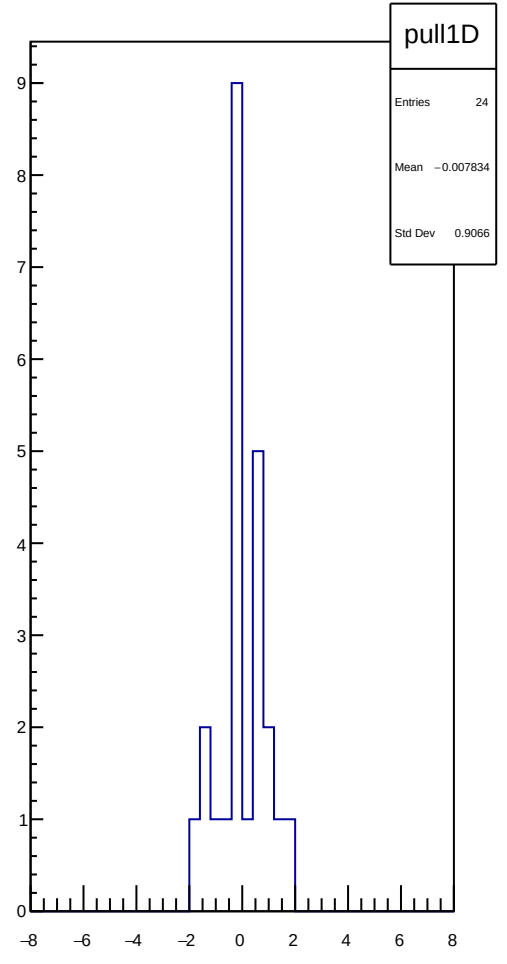

reg_asym_sam_48_dd_rms vs run
χ² / ndf 2941 / 23
p0 97.35 ± 0.1406
125
120
115
110
105
100
95
90
85
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

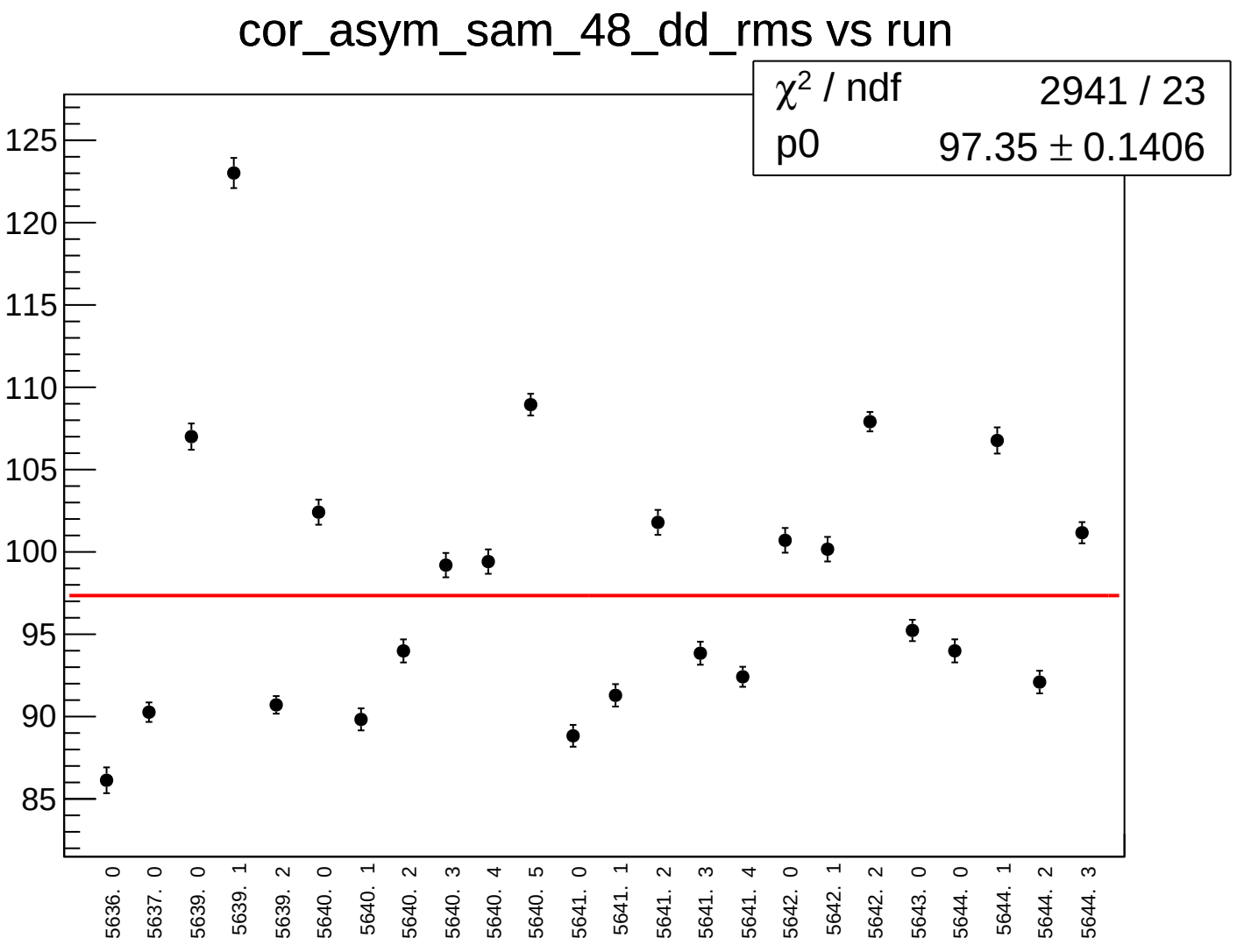

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 18.33 / 23
p0 −1844 ± 2487
40000
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −157.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 24
Mean −0.005599
Std Dev 0.8738
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 2383 / 23
p0 1218 ± 1.758
1400
1350
1300
1250
1200
1150
1100
1050
1000
950
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


cor_asym_sam_48_dd_mean vs run
χ² / ndf 19.73 / 23
p0 −172.1± 198.9
3000
2000
1000
0
−1000
−2000
−3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −5.11
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean −0.007834
Std Dev 0.9066
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_48_dd_rms vs run
χ² / ndf 2941 / 23
p0 97.35 ± 0.1406
125
120
115
110
105
100
95
90
85
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5642. 2
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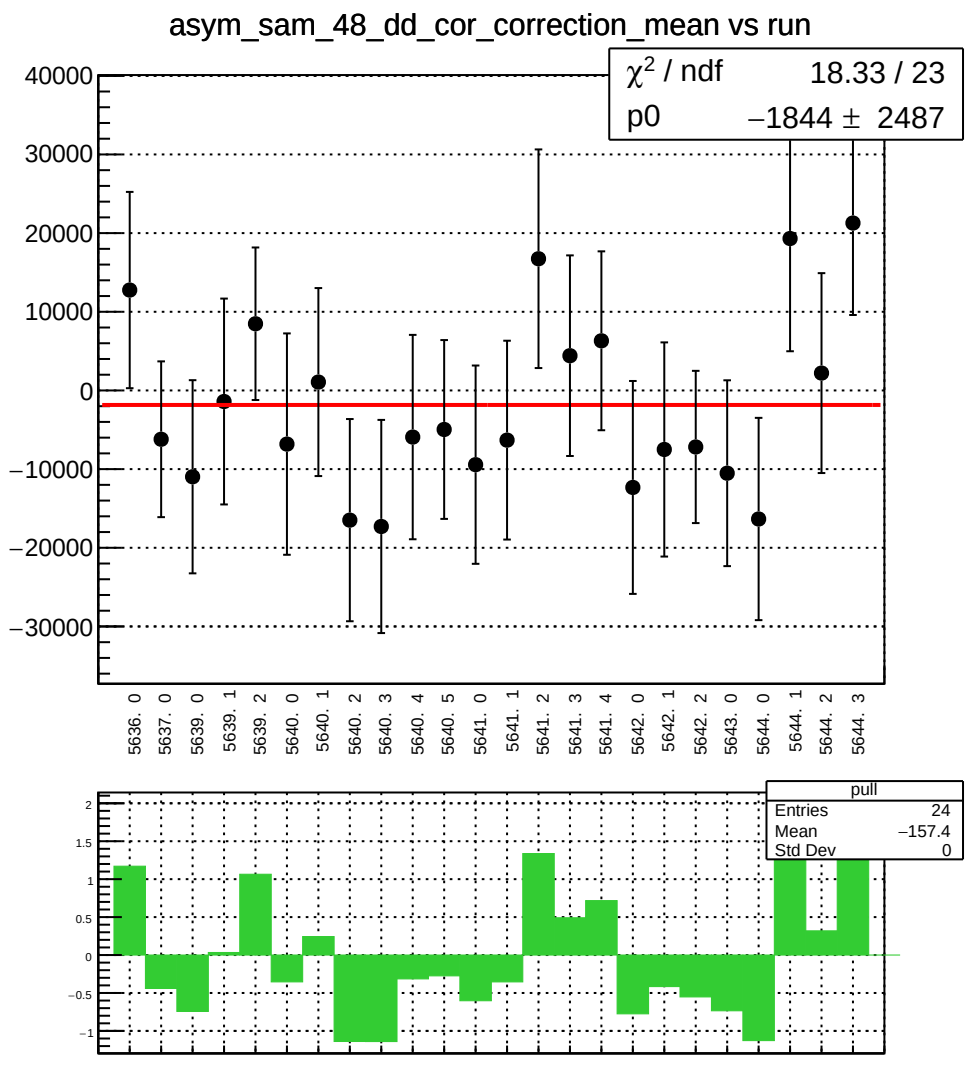
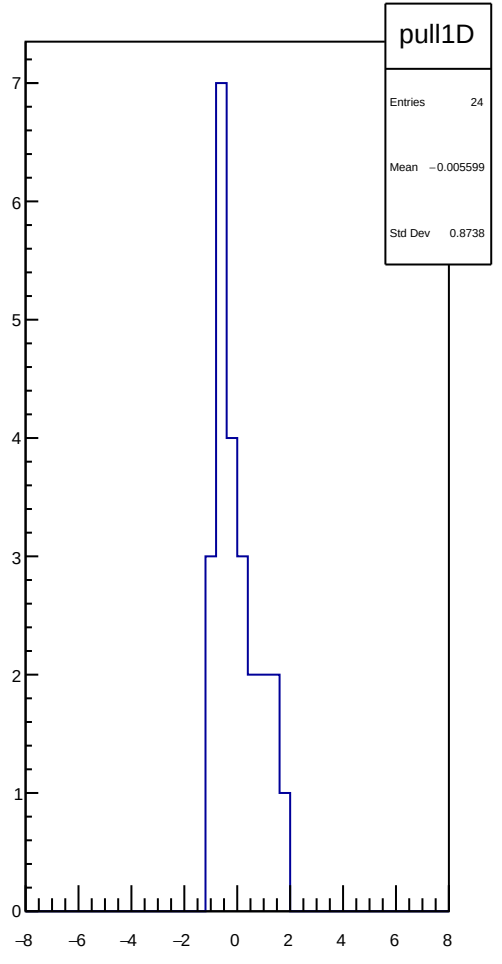
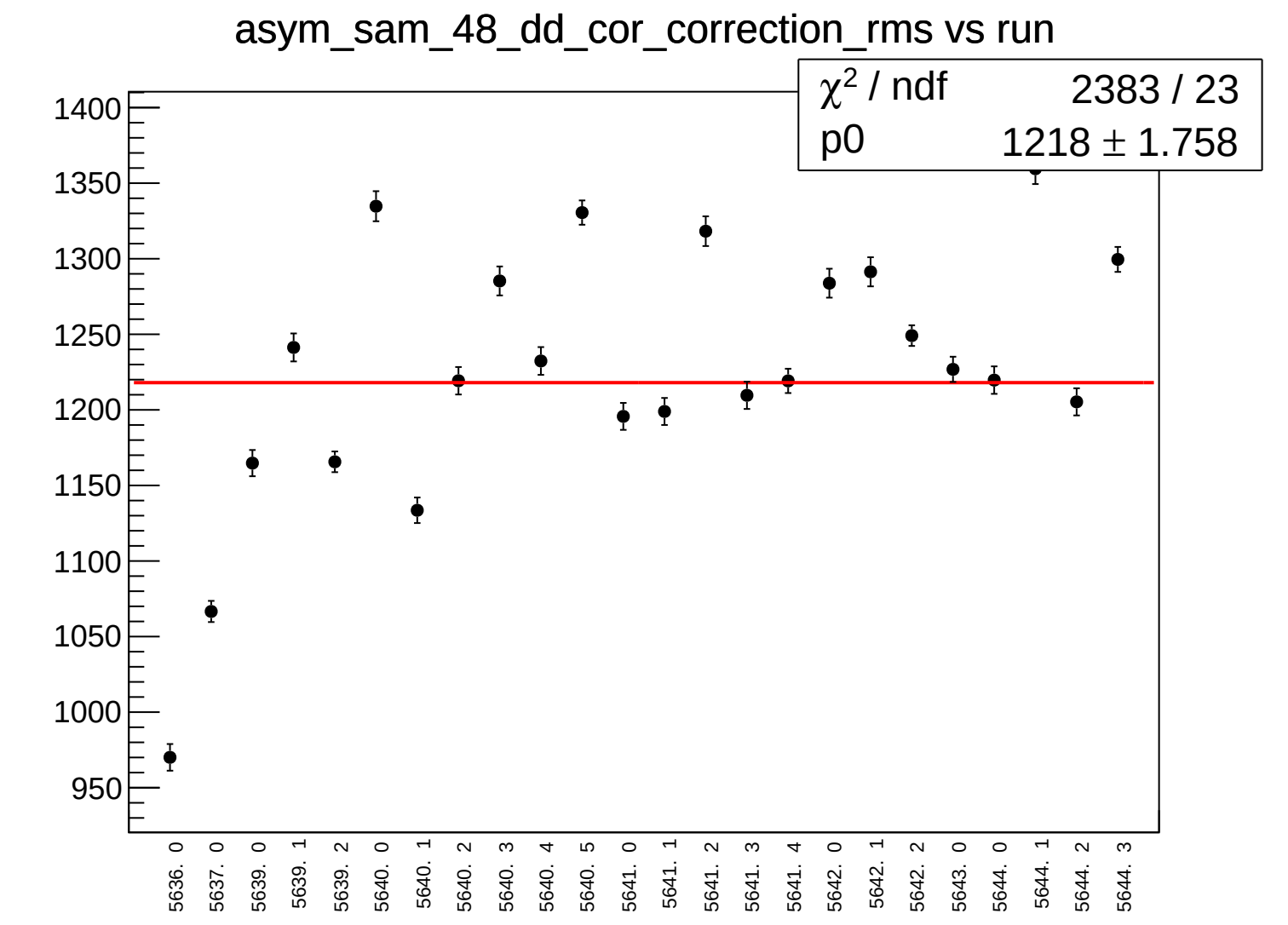
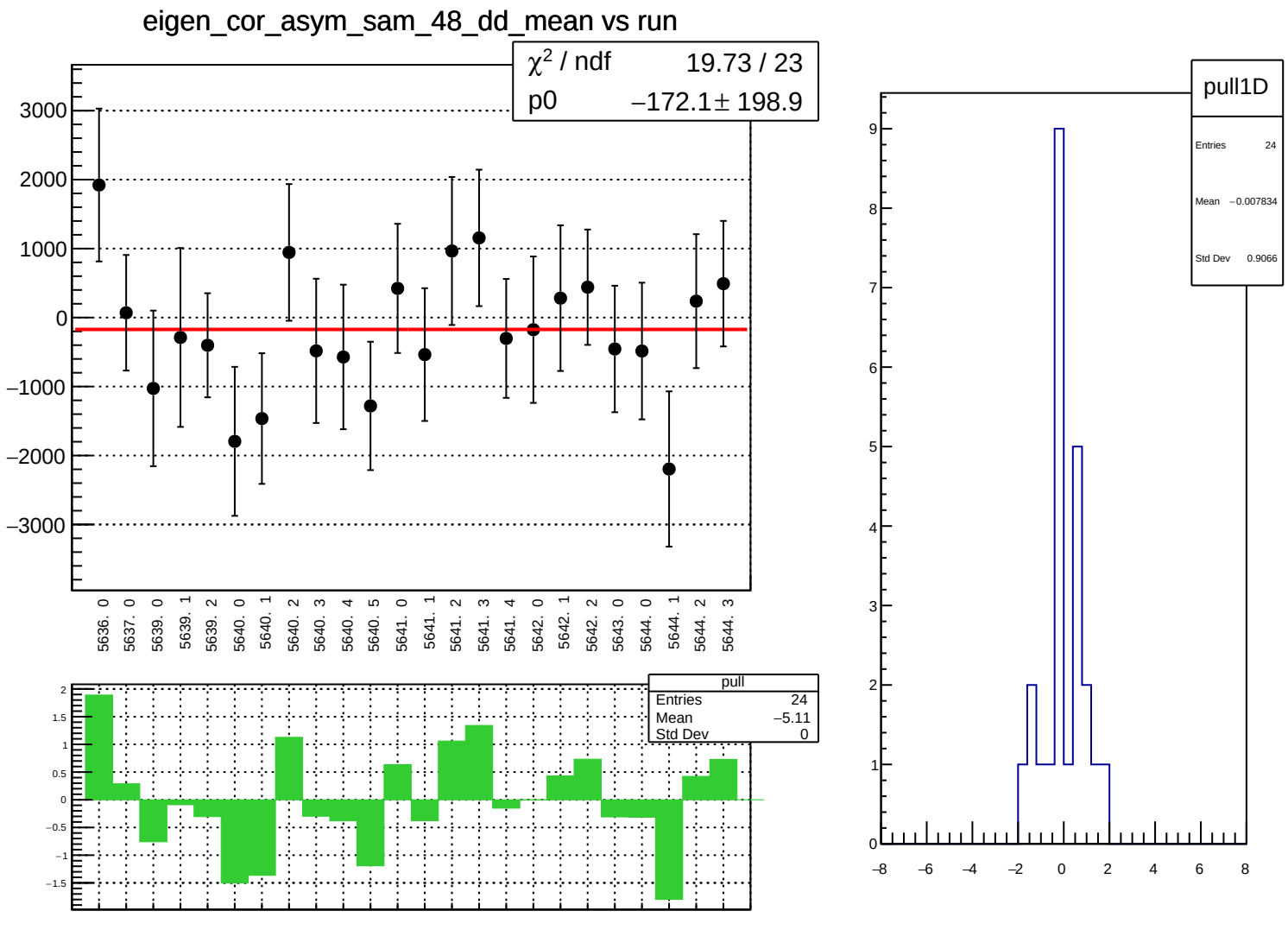
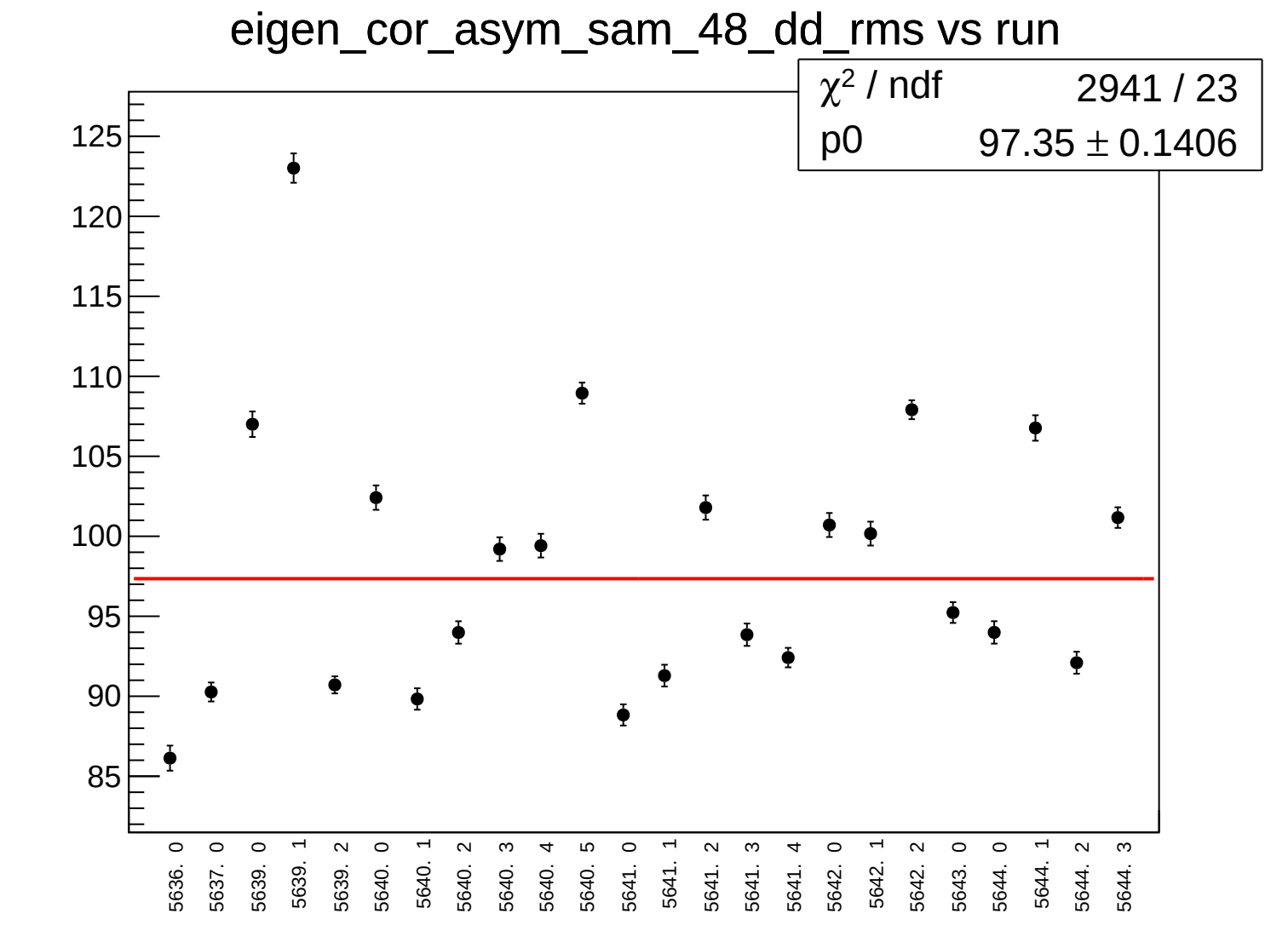
5644. 0
5644. 1
5644. 2
5644. 3

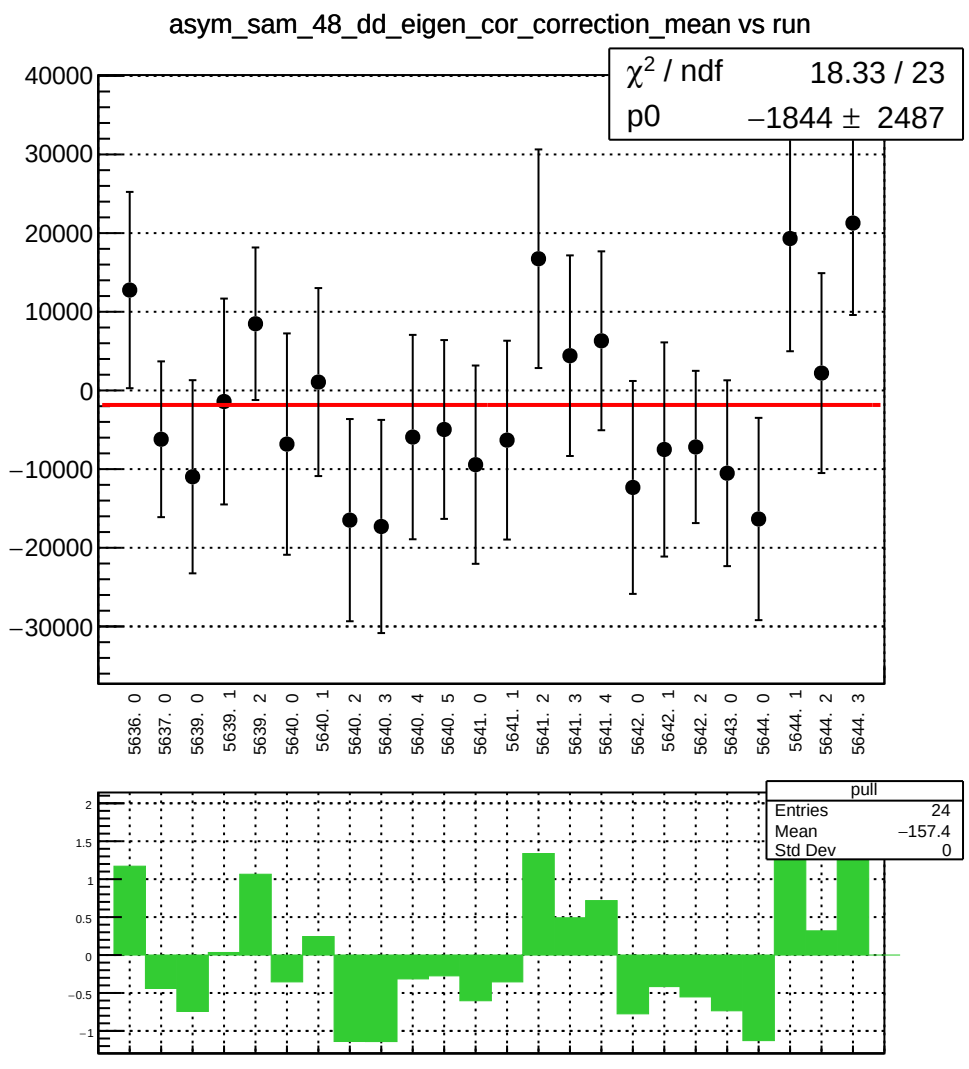

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 18.33 / 23
p0 −1844 ± 2487
40000
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −157.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

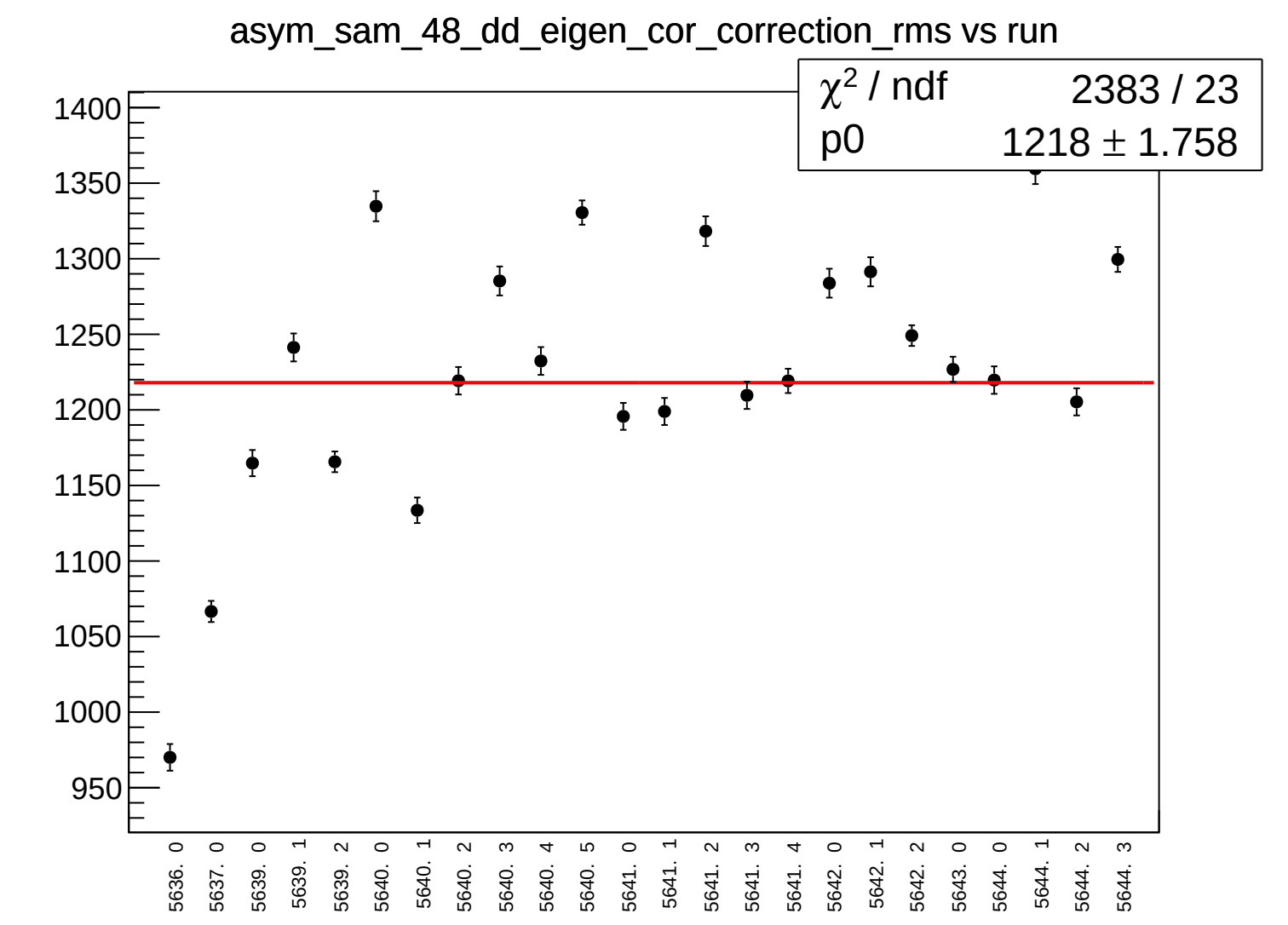

pull1D
Entries 24
Mean −0.005599
Std Dev 0.8738
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

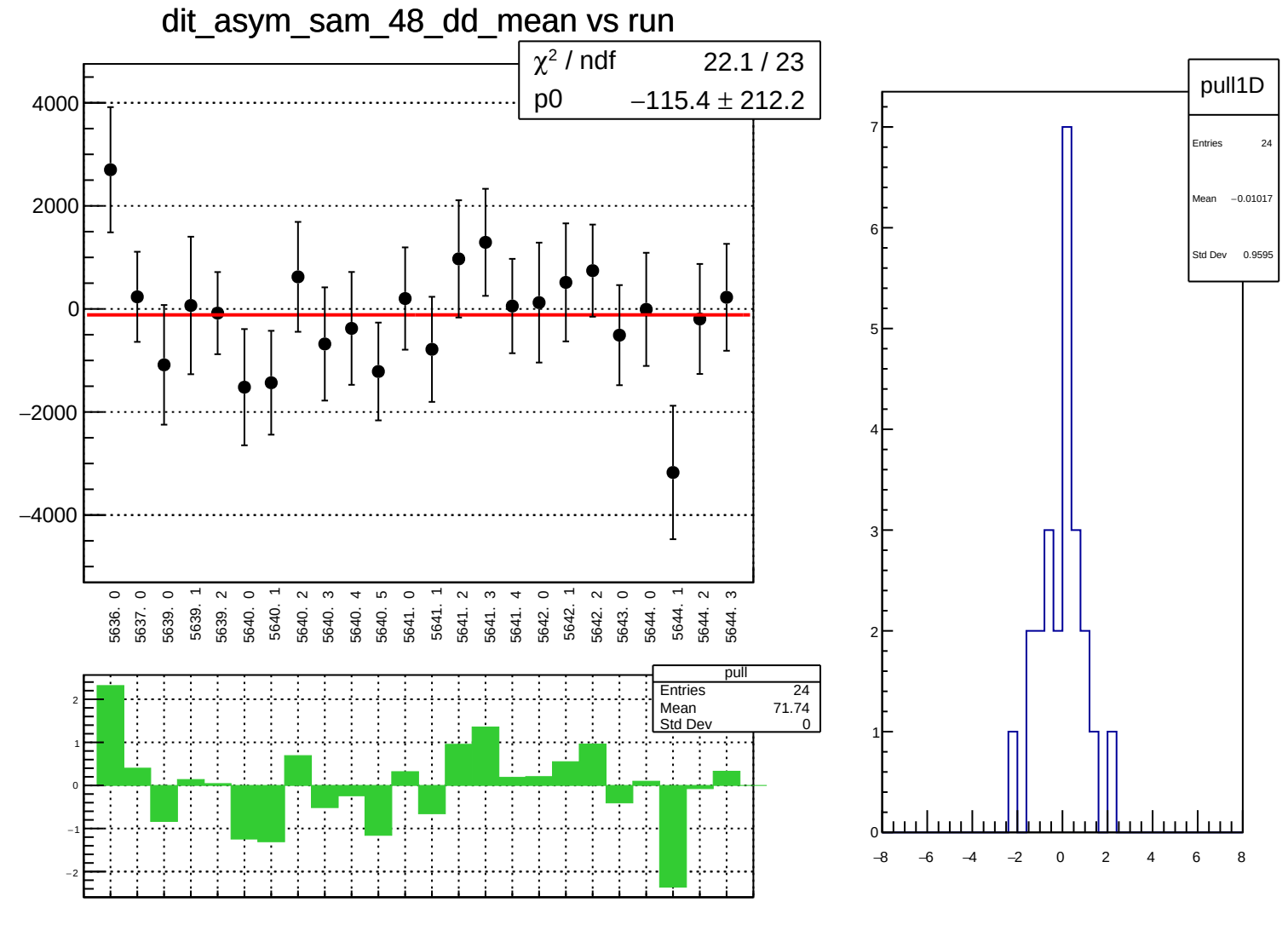

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 2383 / 23
p0 1218 ± 1.758
1400
1350
1300
1250
1200
1150
1100
1050
1000
950
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

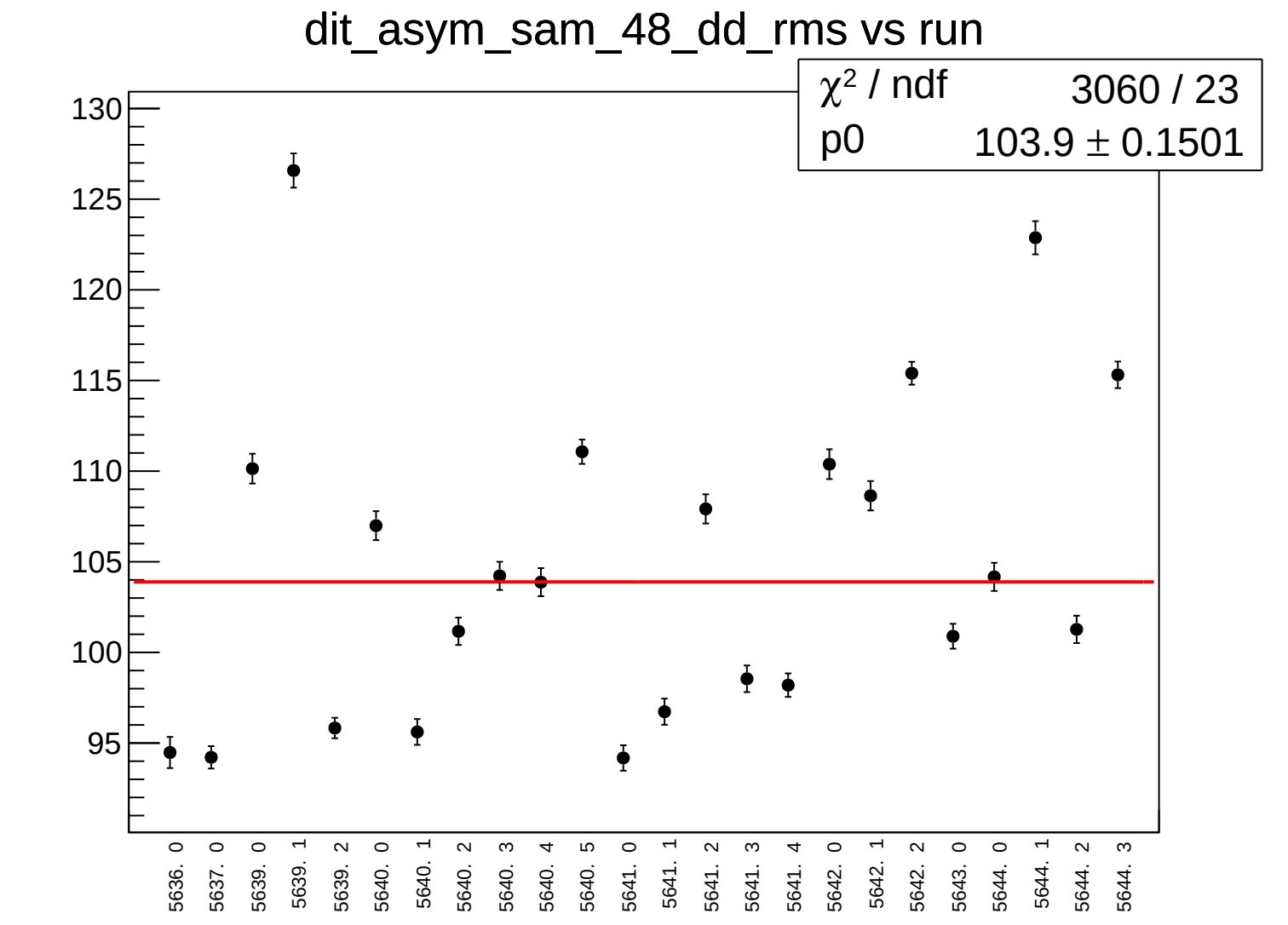

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 19.73 / 23
p0 −172.1± 198.9
3000
2000
1000
0
−1000
−2000
−3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −5.11
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.007834
Std Dev 0.9066
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

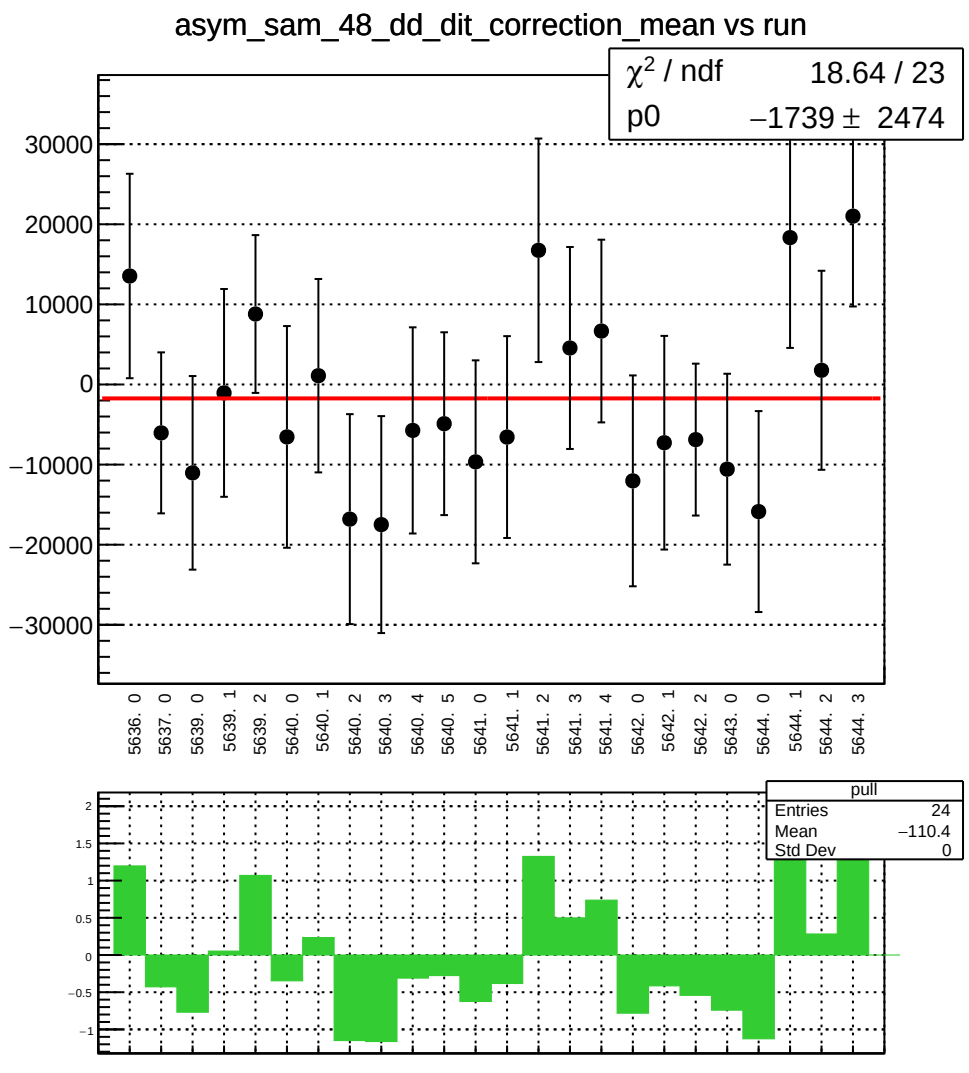

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 2941 / 23
p0 97.35 ± 0.1406
125
120
115
110
105
100
95
90
85
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

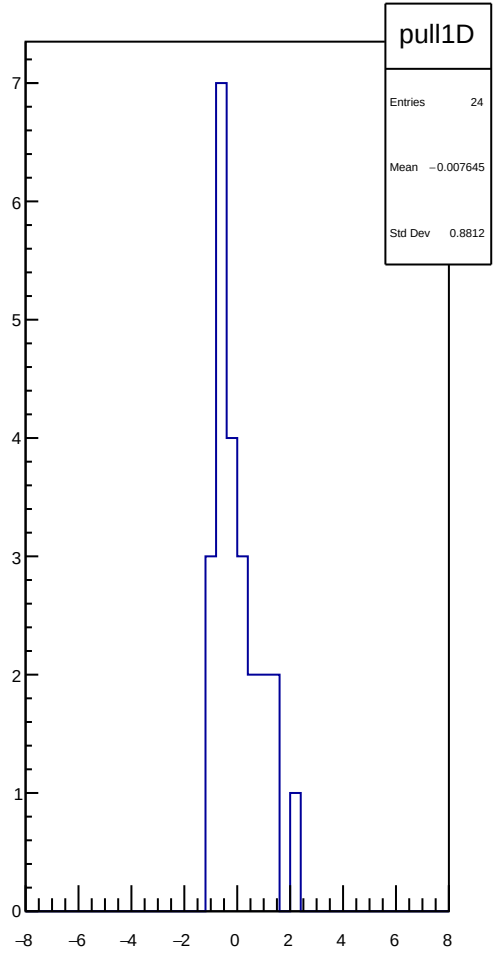

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 18.33 / 23
p0 −1844 ± 2487
40000
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −157.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.005599
Std Dev 0.8738
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

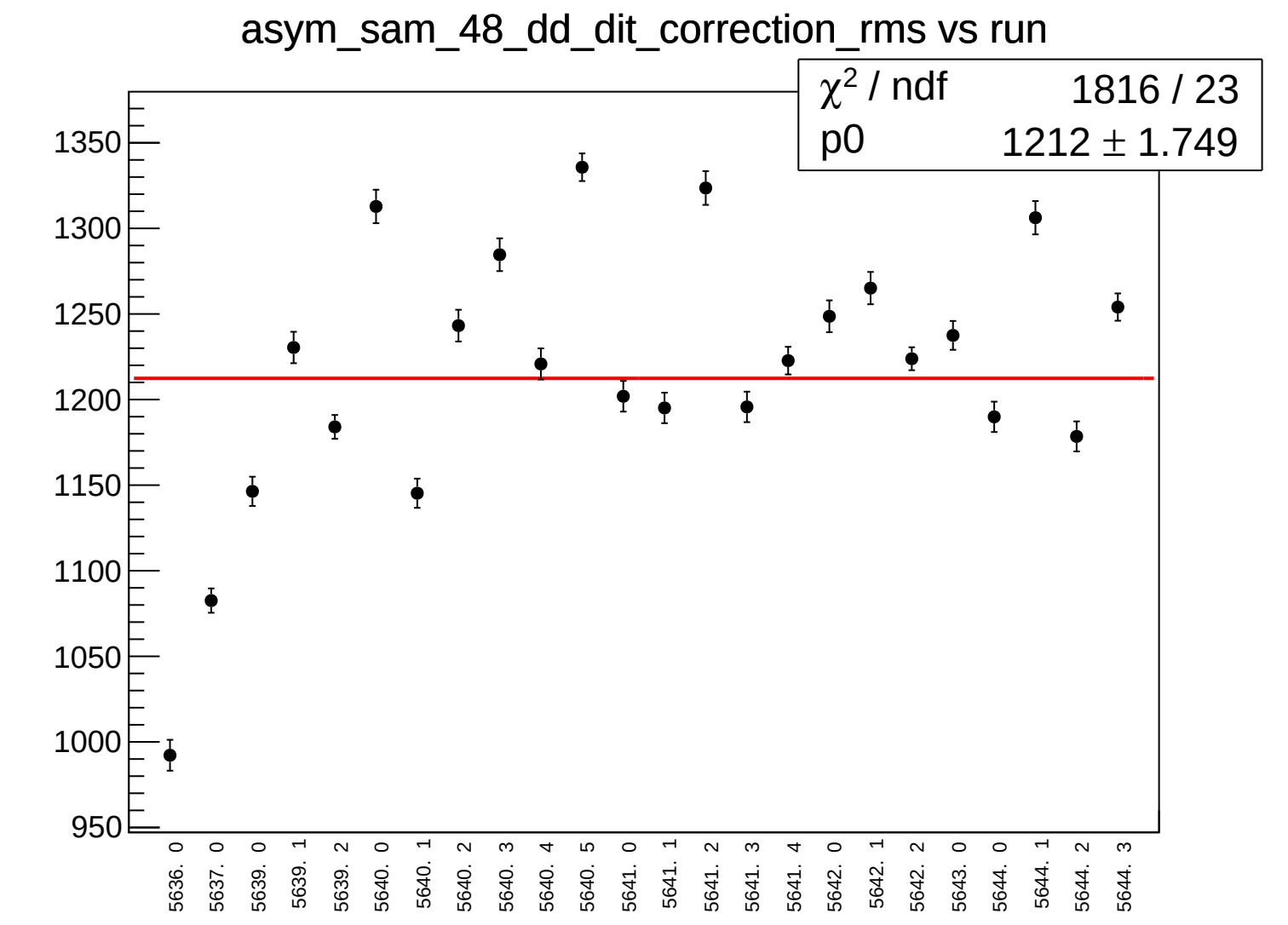

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2383 / 23
p0 1218 ± 1.758
1400
1350
1300
1250
1200
1150
1100
1050
1000
950
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

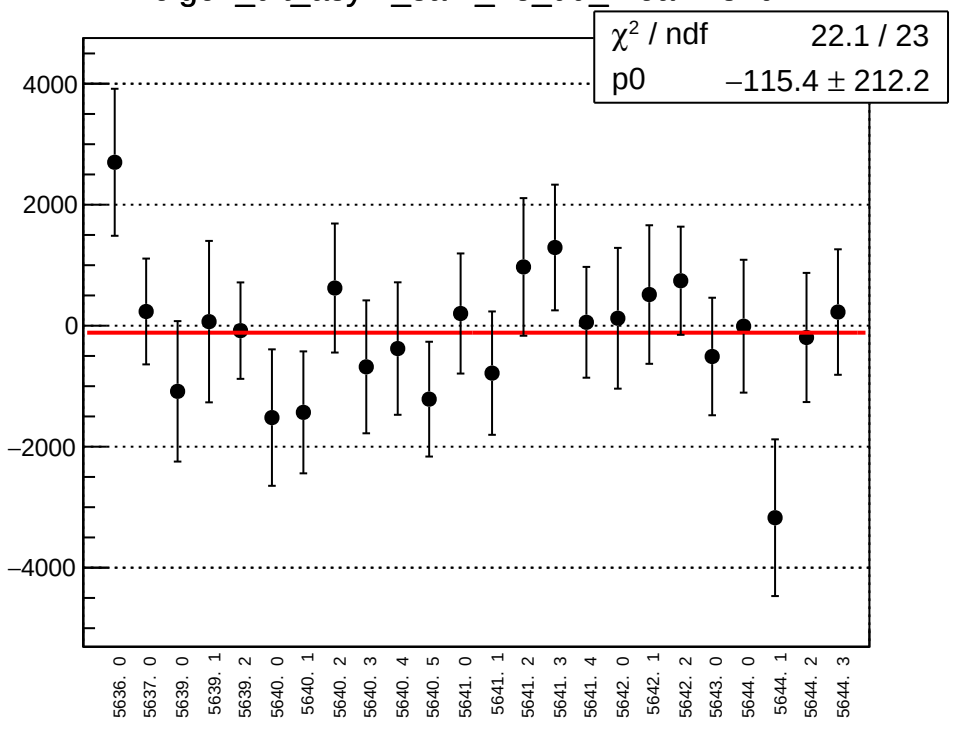

dit_asym_sam_48_dd_mean vs run
χ² / ndf 22.1 / 23
p0 −115.4 ± 212.2
4000
2000
0
−2000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 71.74
Std Dev 0
pull1D
Entries 24
Mean −0.01017
Std Dev 0.9595

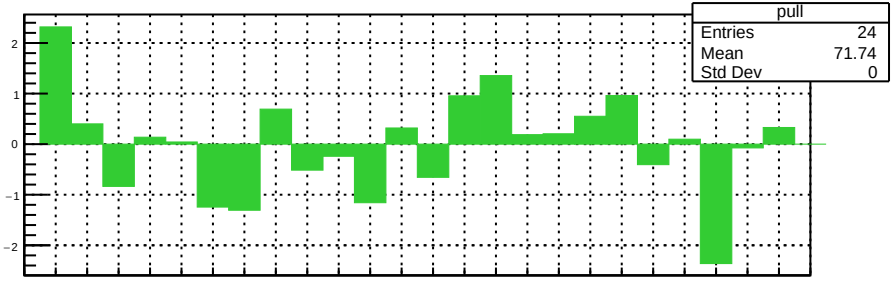

dit_asym_sam_48_dd_rms vs run
χ² / ndf 3060 / 23
p0 103.9 ± 0.1501
130
125
120
115
110
105
100
95
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

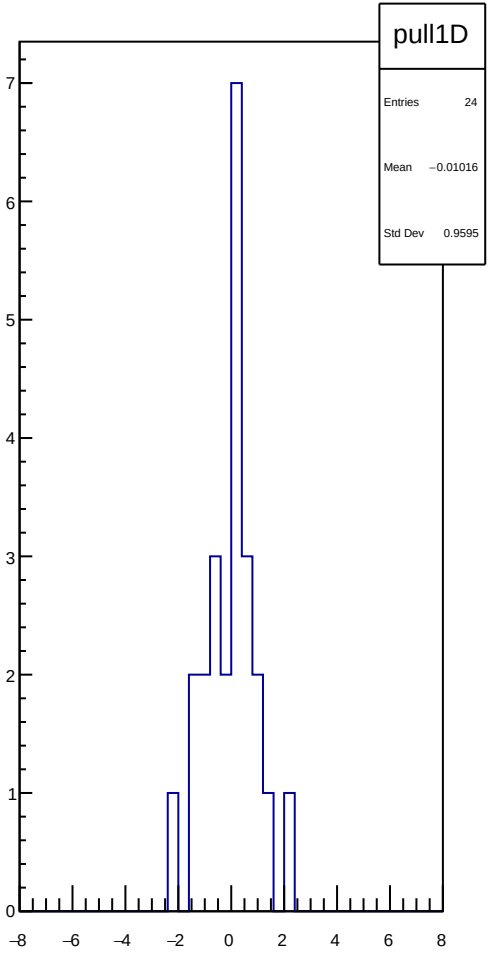

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 18.64 / 23
p0 −1739 ± 2474
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −110.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

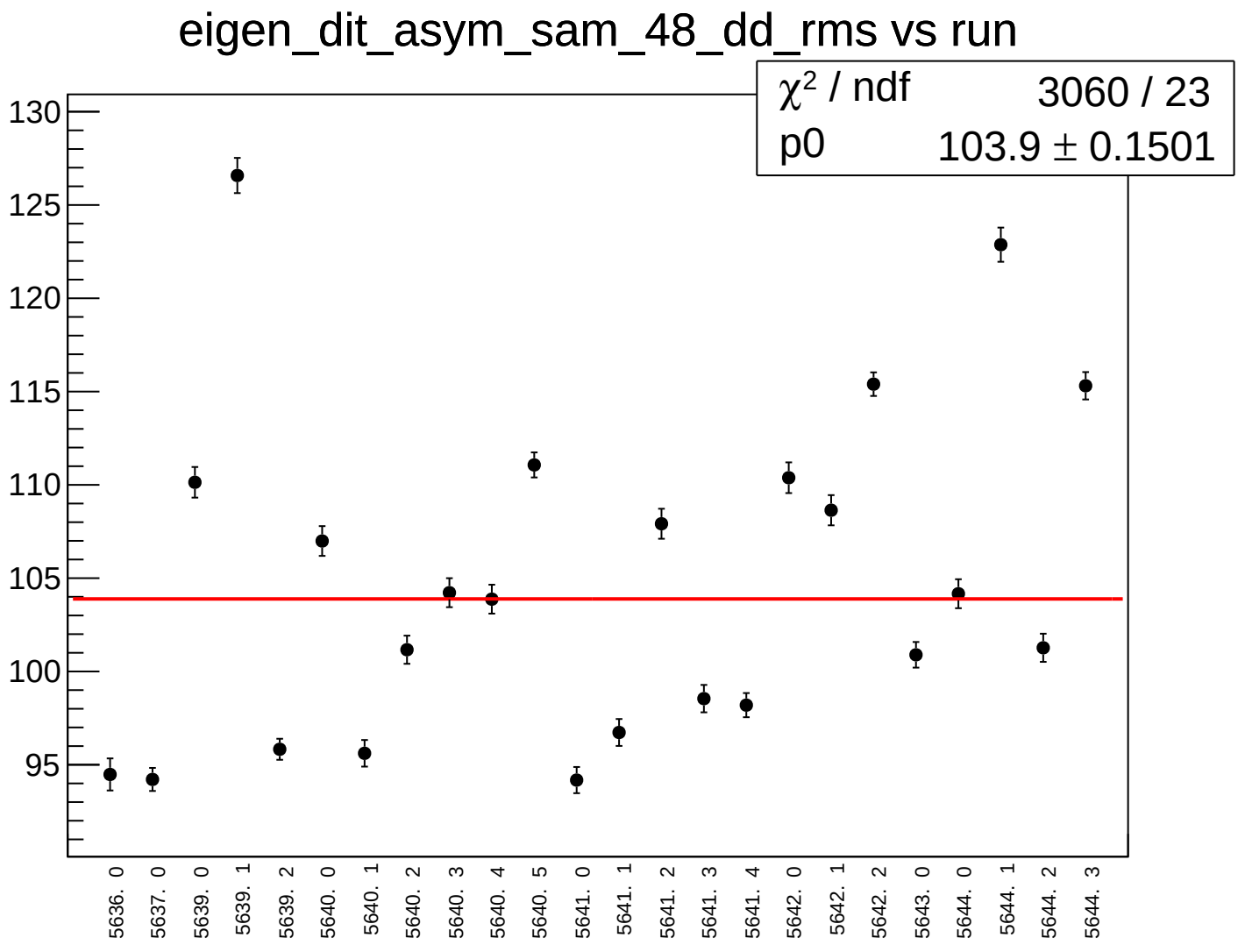

pull1D
Entries 24
Mean −0.007645
Std Dev 0.8812
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

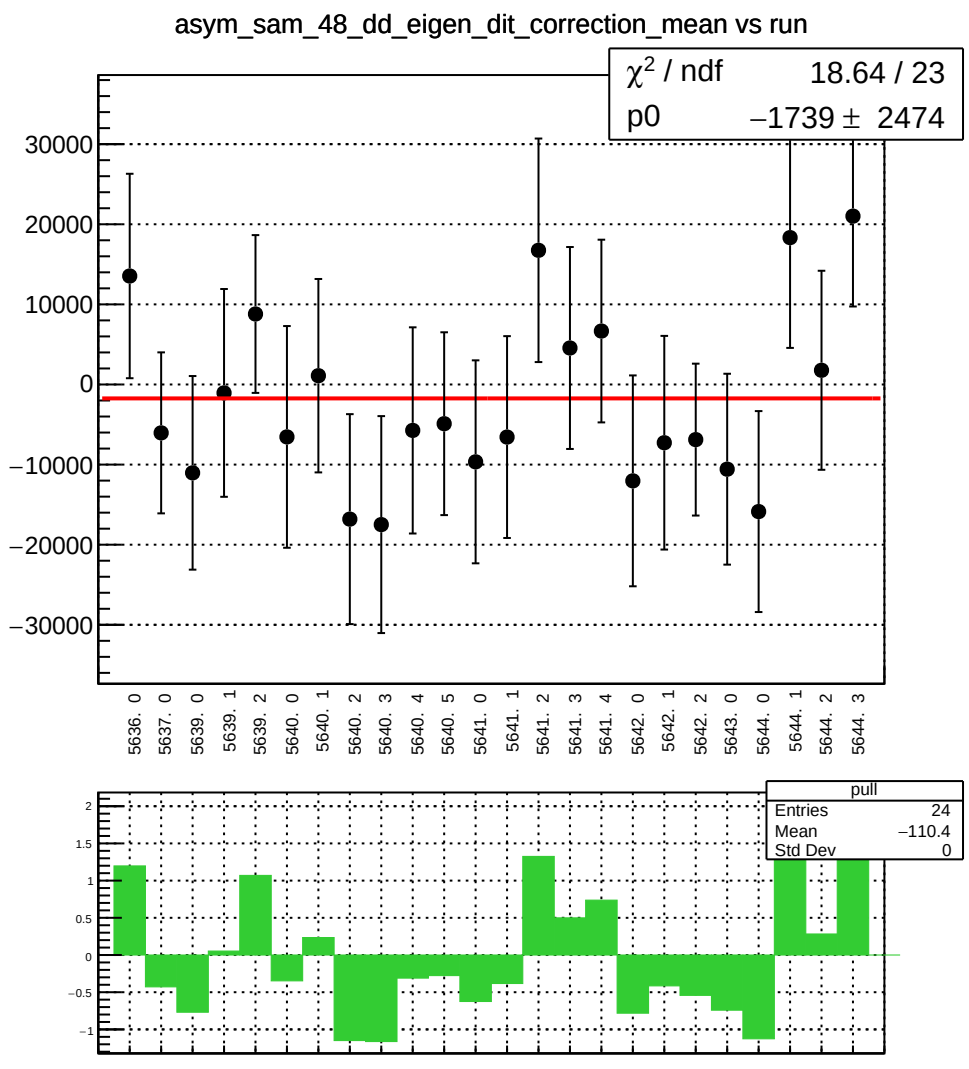

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 1816 / 23
p0 1212 ± 1.749
1350
1300
1250
1200
1150
1100
1050
1000
950
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

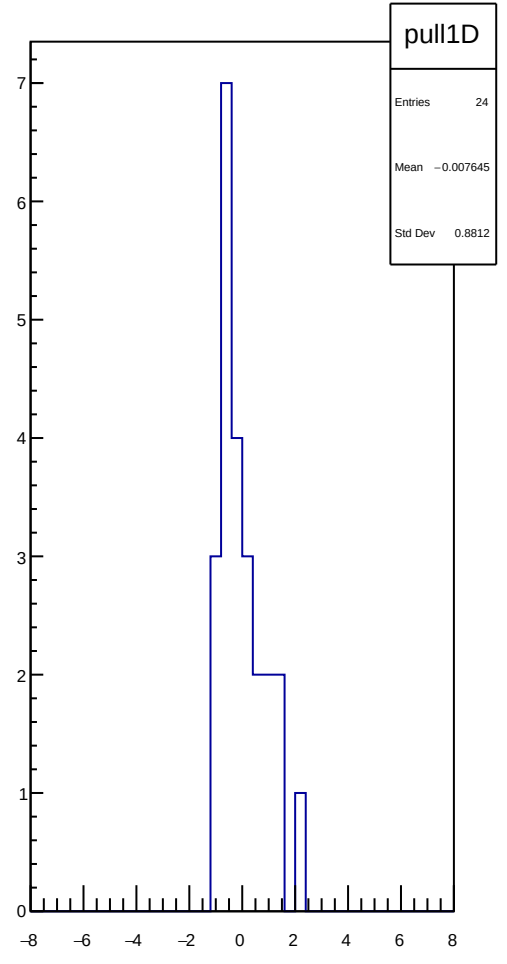

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 22.1 / 23
p0 −115.4 ± 212.2
4000
2000
0
−2000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

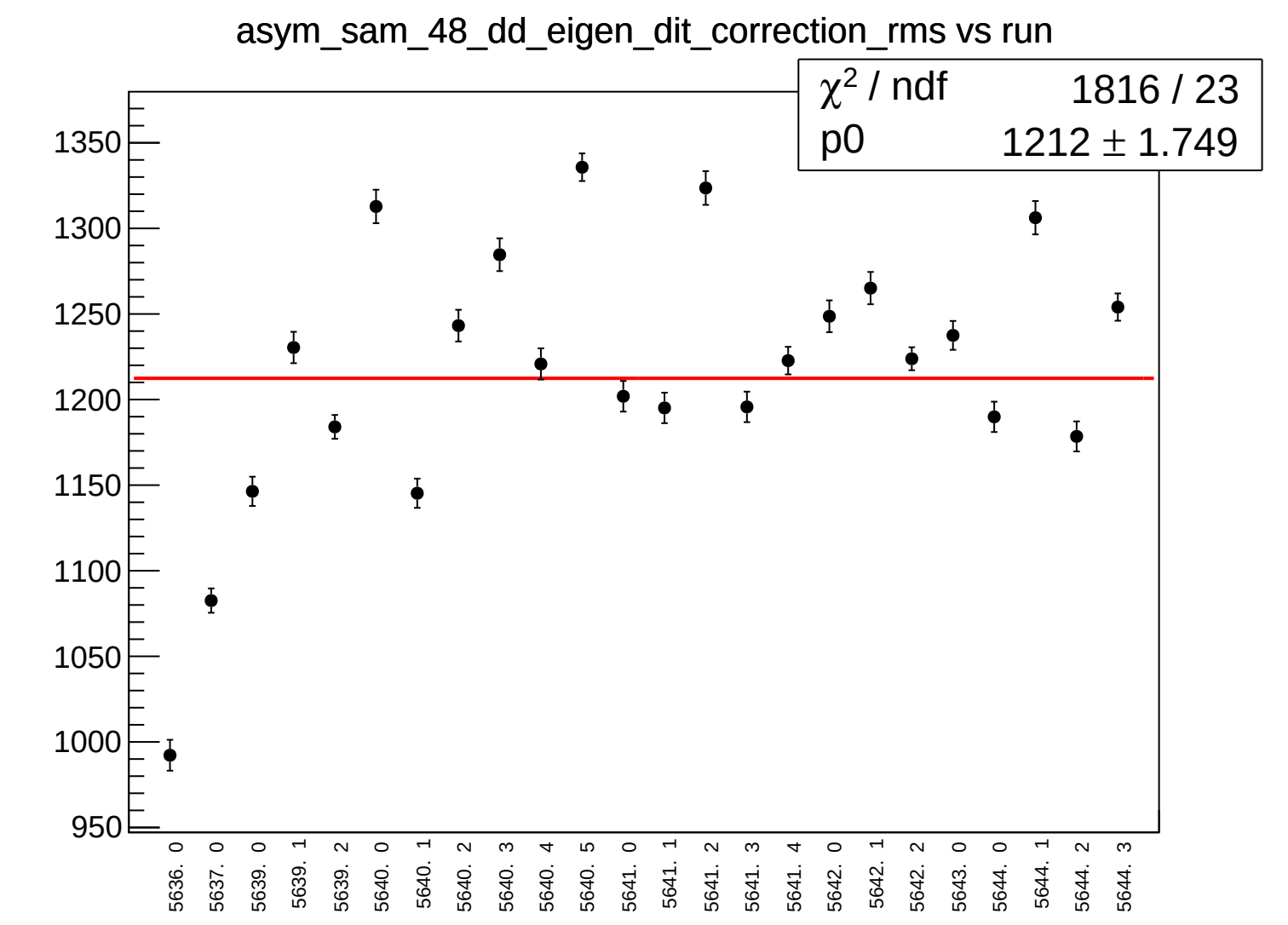

pull
Entries 24
Mean 71.74
Std Dev 0
2
1
0
−1
−2

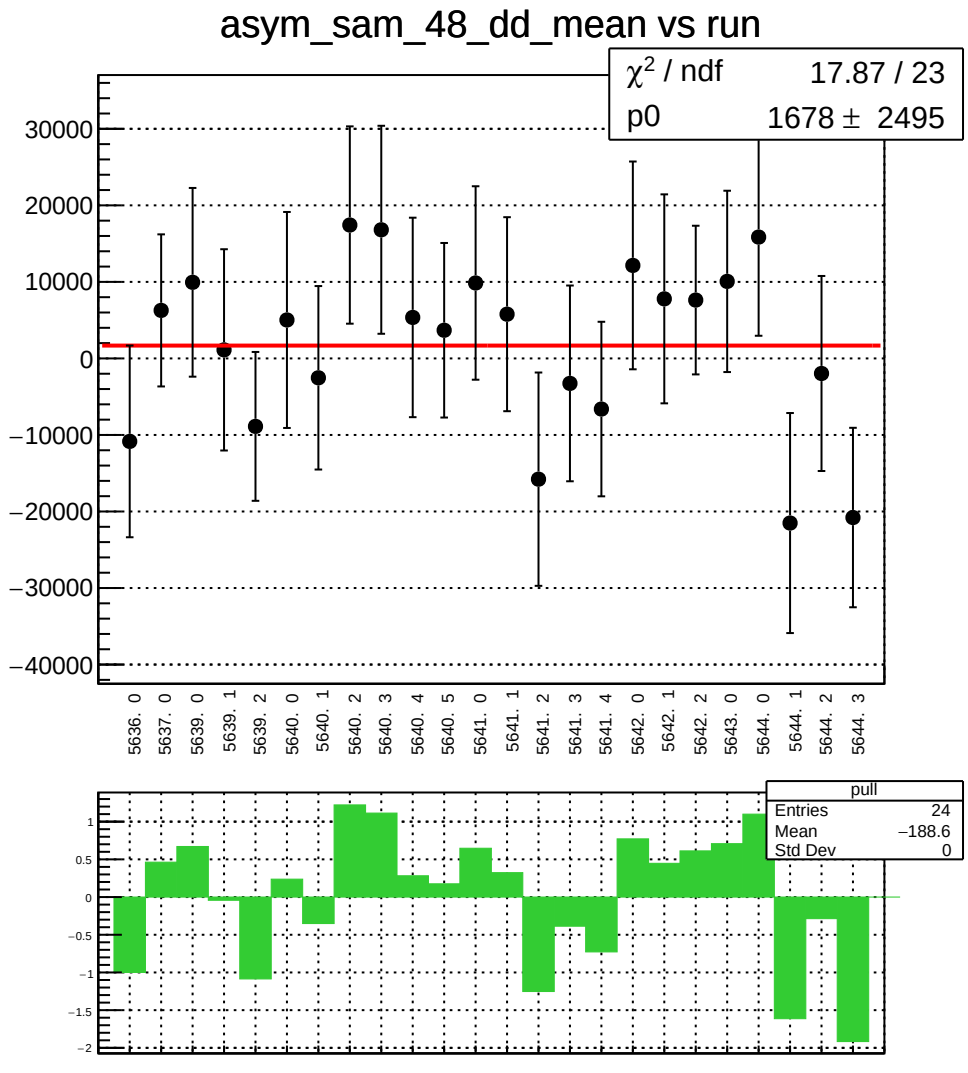

pull1D
Entries 24
Mean −0.01016
Std Dev 0.9595
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

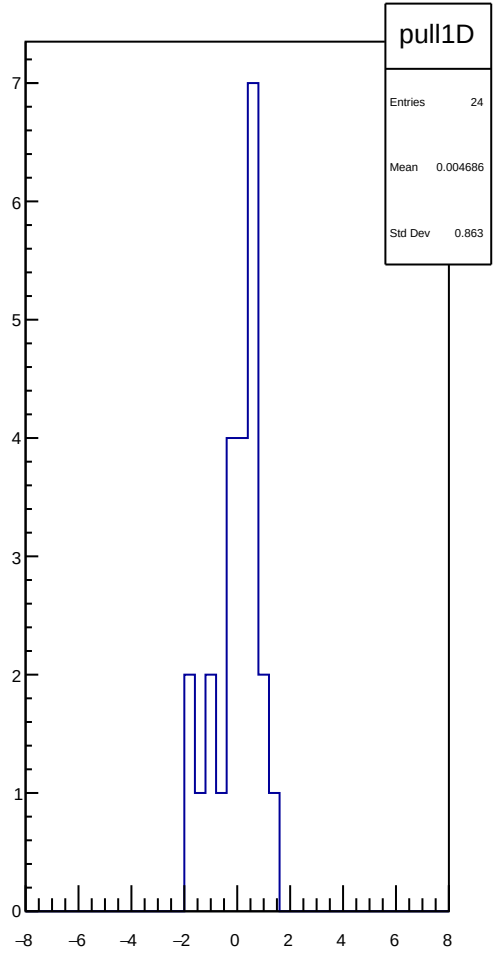

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 3060 / 23
p0 103.9 ± 0.1501
130
125
120
115
110
105
100
95
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

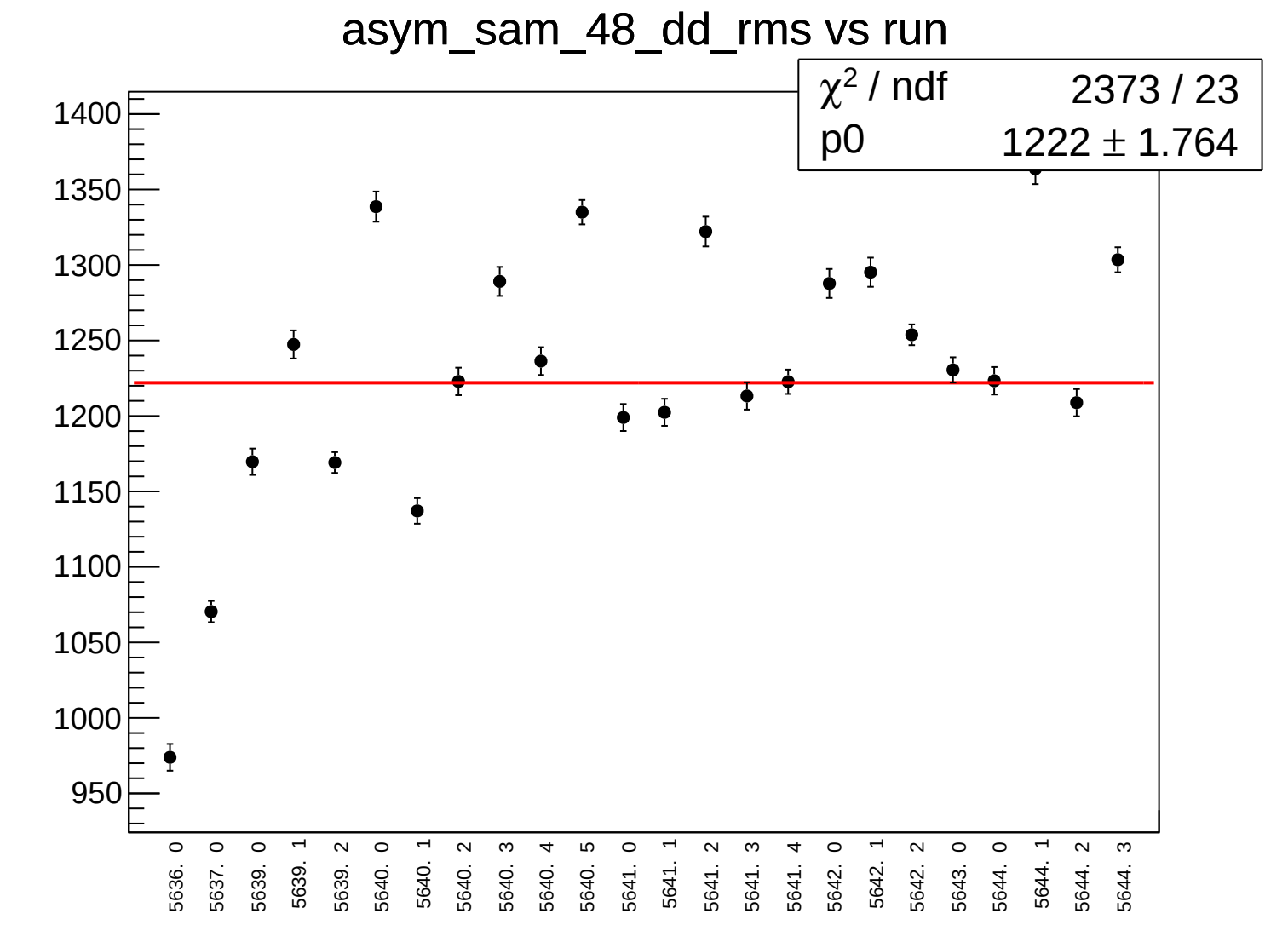

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 18.64 / 23
p0 −1739 ± 2474
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −110.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

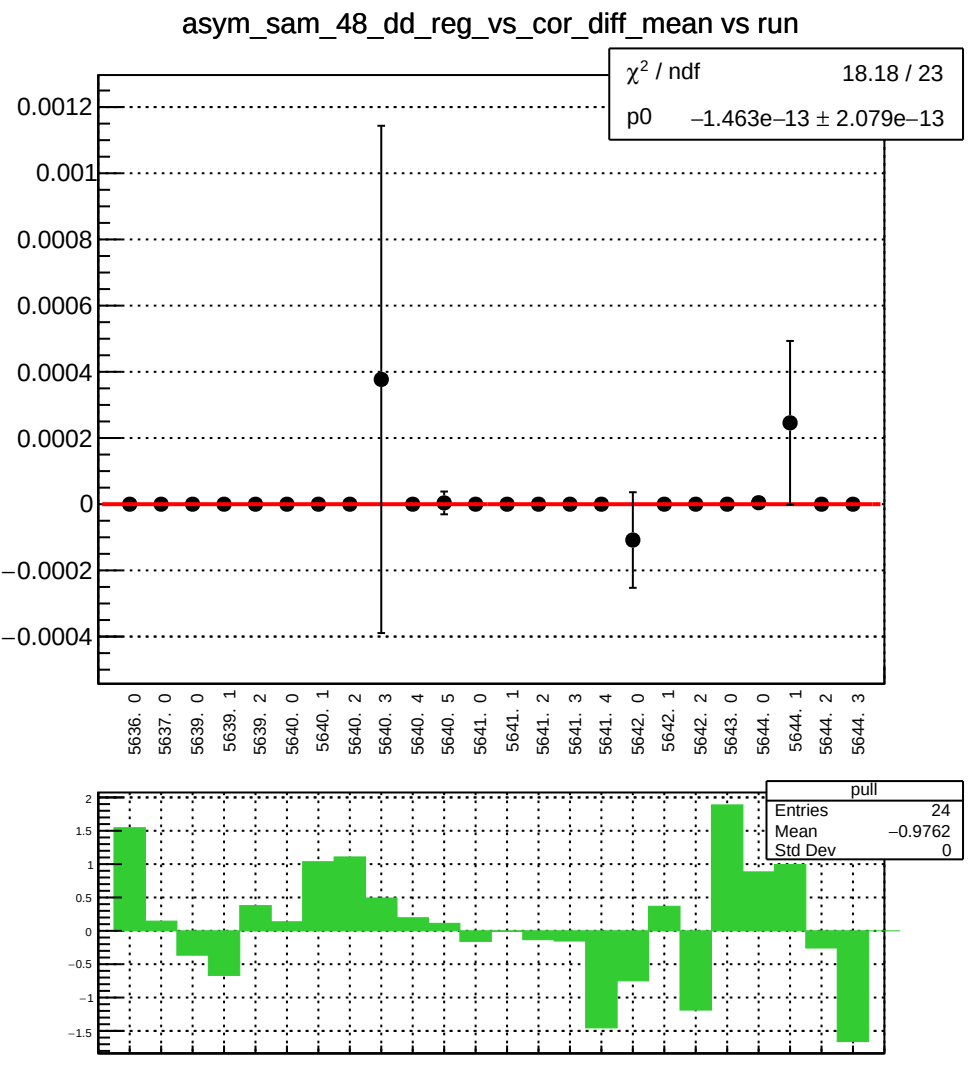

pull1D
Entries 24
Mean −0.007645
Std Dev 0.8812
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

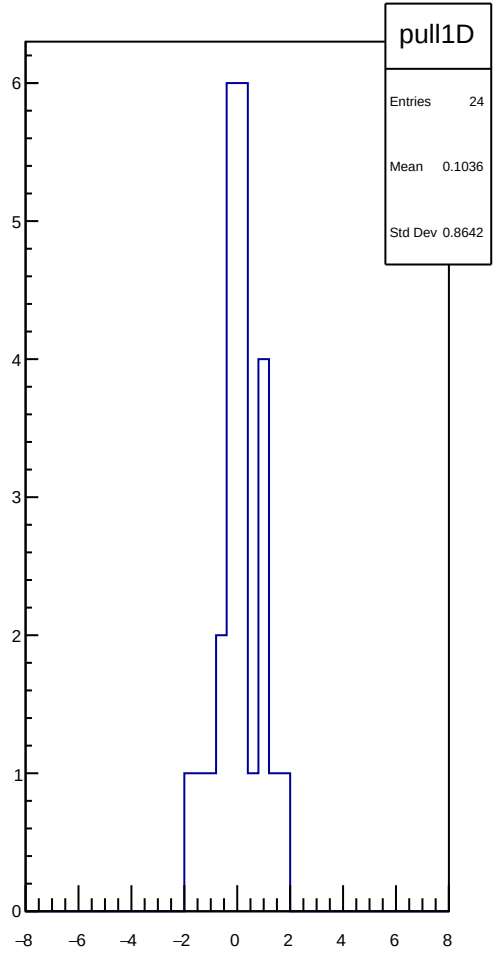

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1816 / 23
p0 1212 ± 1.749
1350
1300
1250
1200
1150
1100
1050
1000
950
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

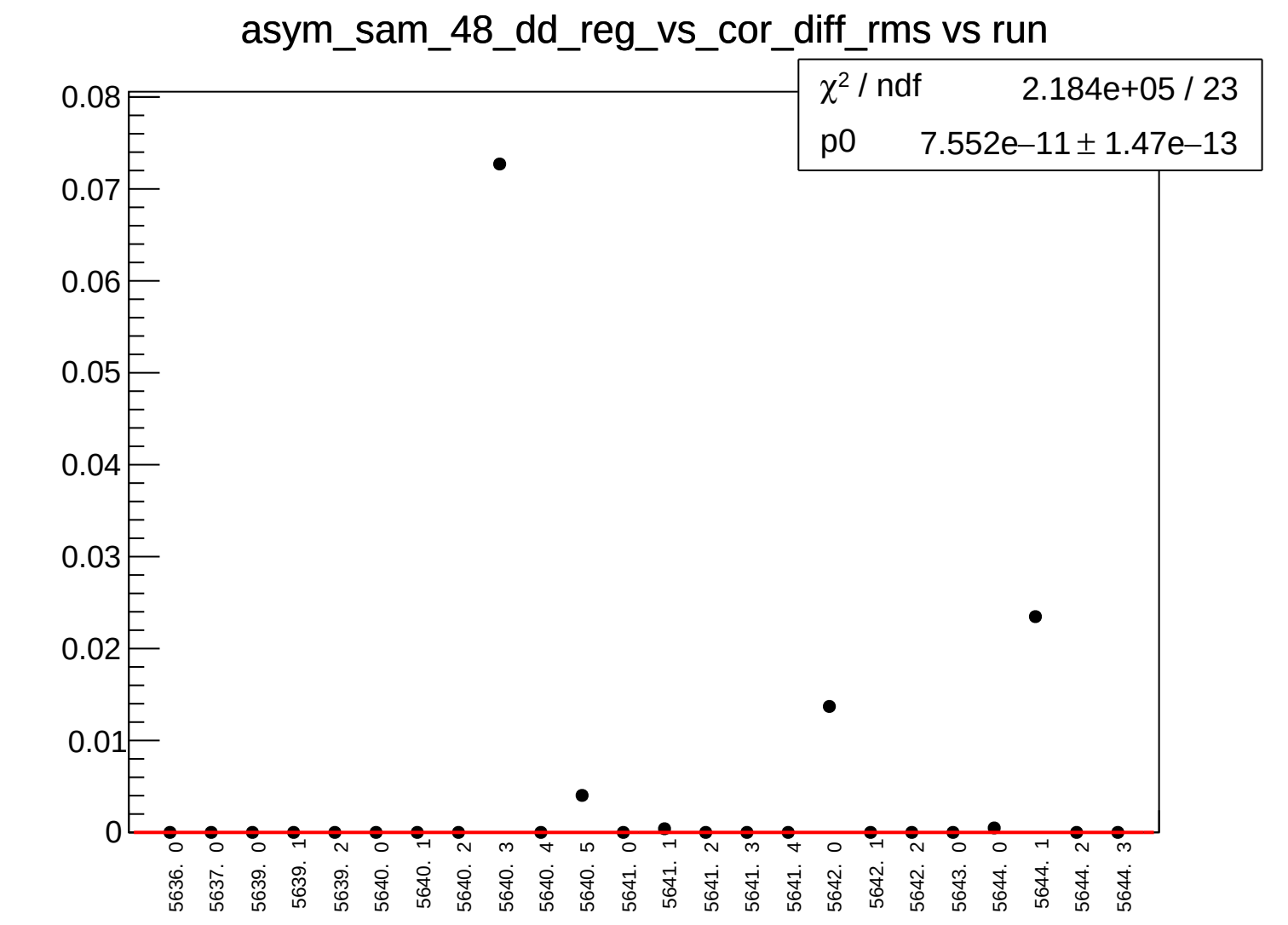

asym_sam_48_dd_mean vs run
χ² / ndf 17.87 / 23
p0 1678 ± 2495
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −188.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

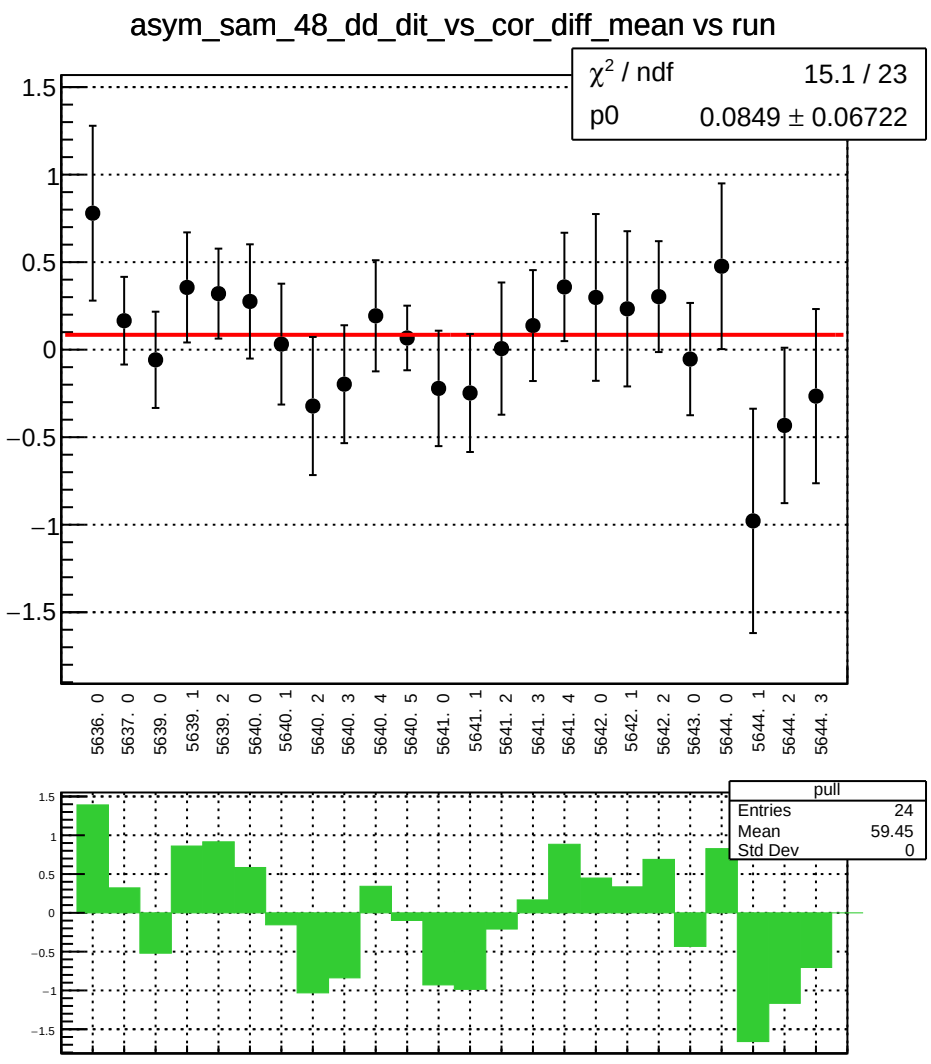

pull1D
Entries 24
Mean 0.004686
Std Dev 0.863
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

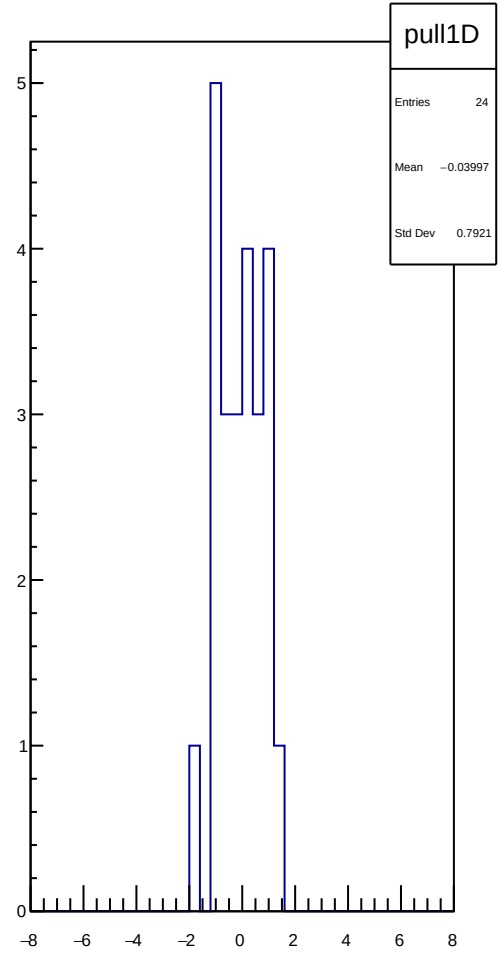

asym_sam_48_dd_rms vs run
χ² / ndf 2373 / 23
p0 1222 ± 1.764
1400
1350
1300
1250
1200
1150
1100
1050
1000
950
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

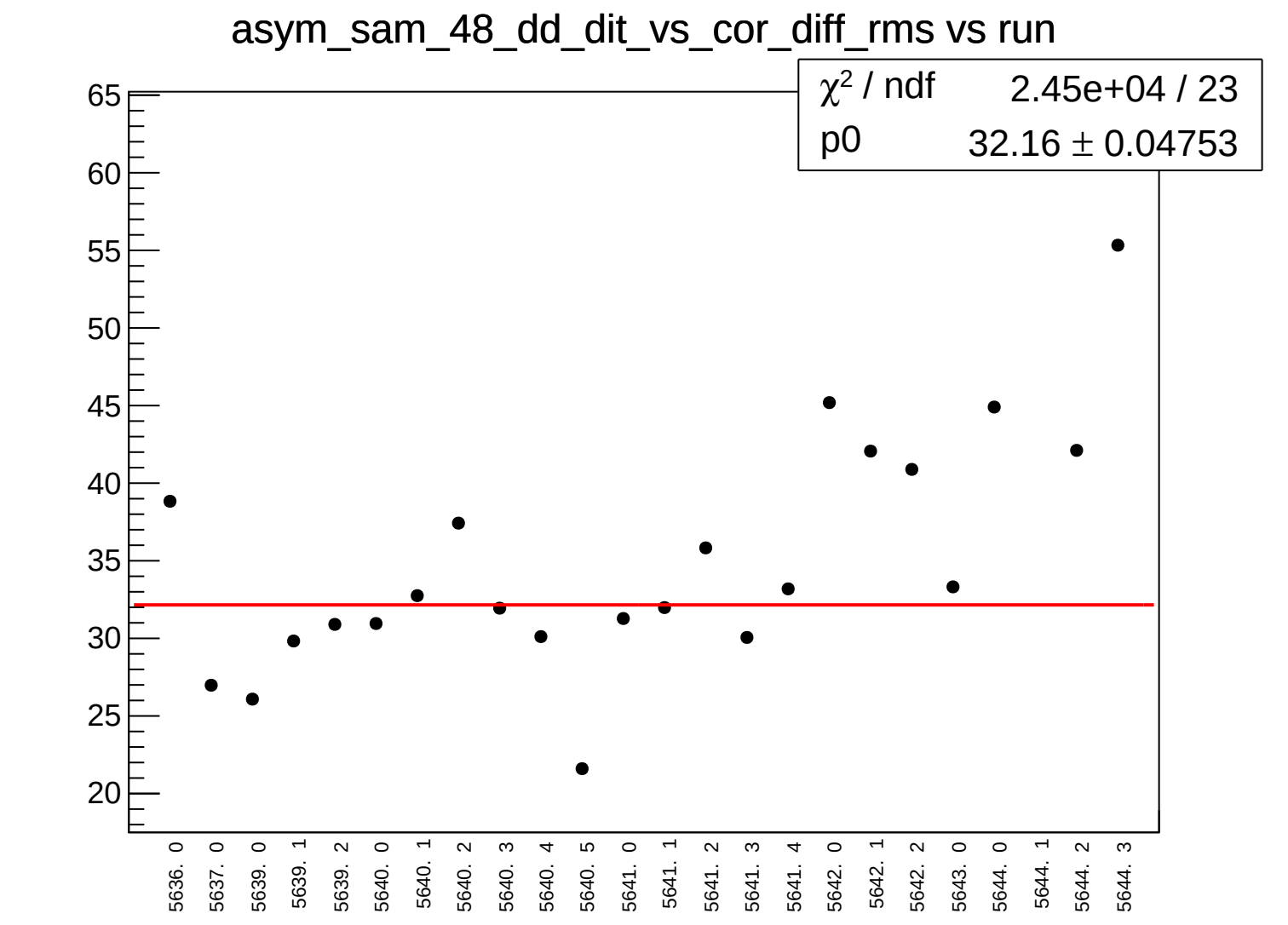

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 18.18 / 23
p0 −1.463e−13 ± 2.079e−13
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −0.9762
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

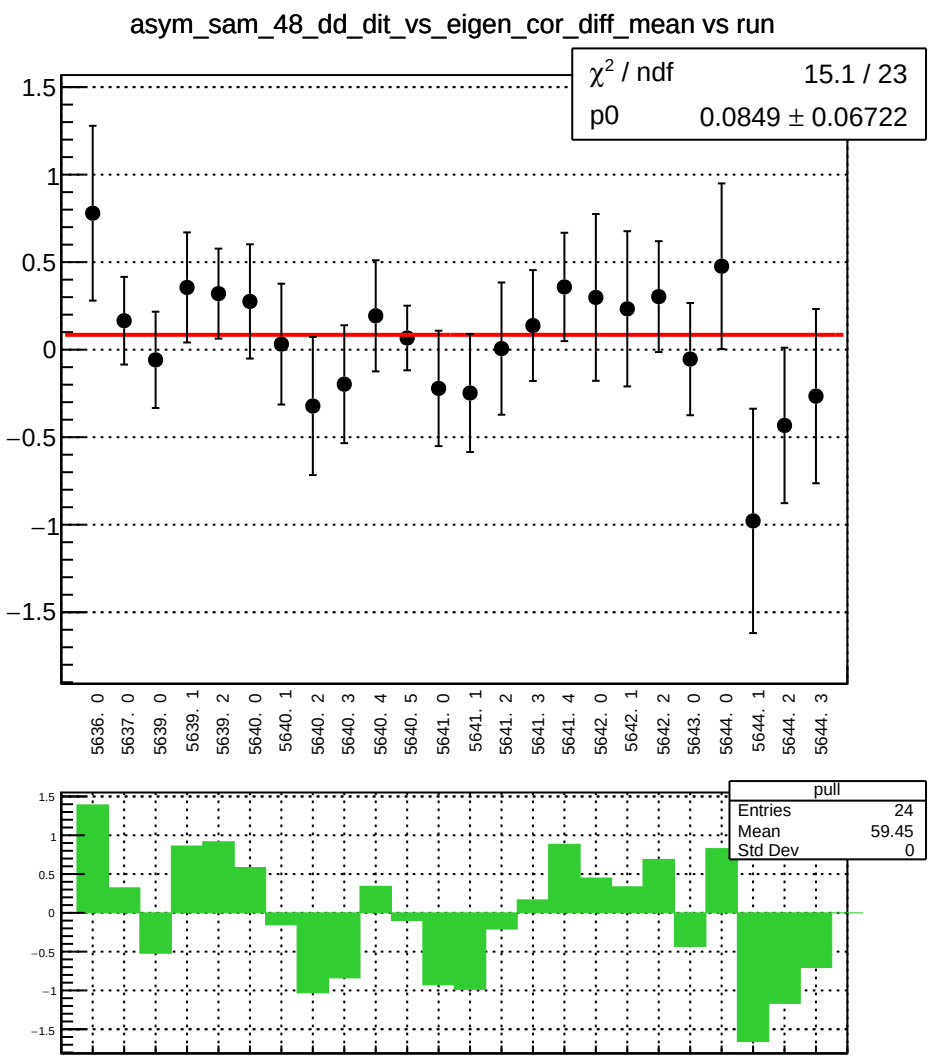

pull1D
Entries 24
Mean 0.1036
Std Dev 0.8642
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

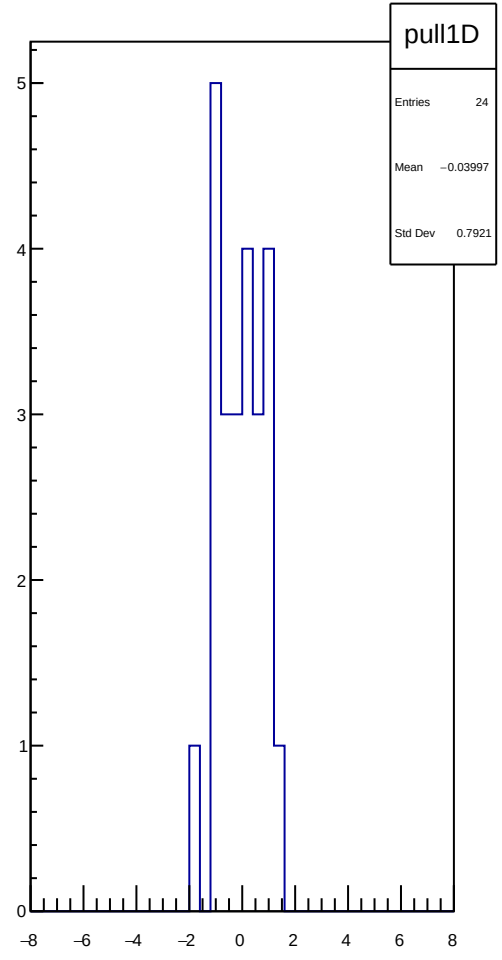

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.184e+05 / 23
p0 7.552e−11 ± 1.47e−13
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

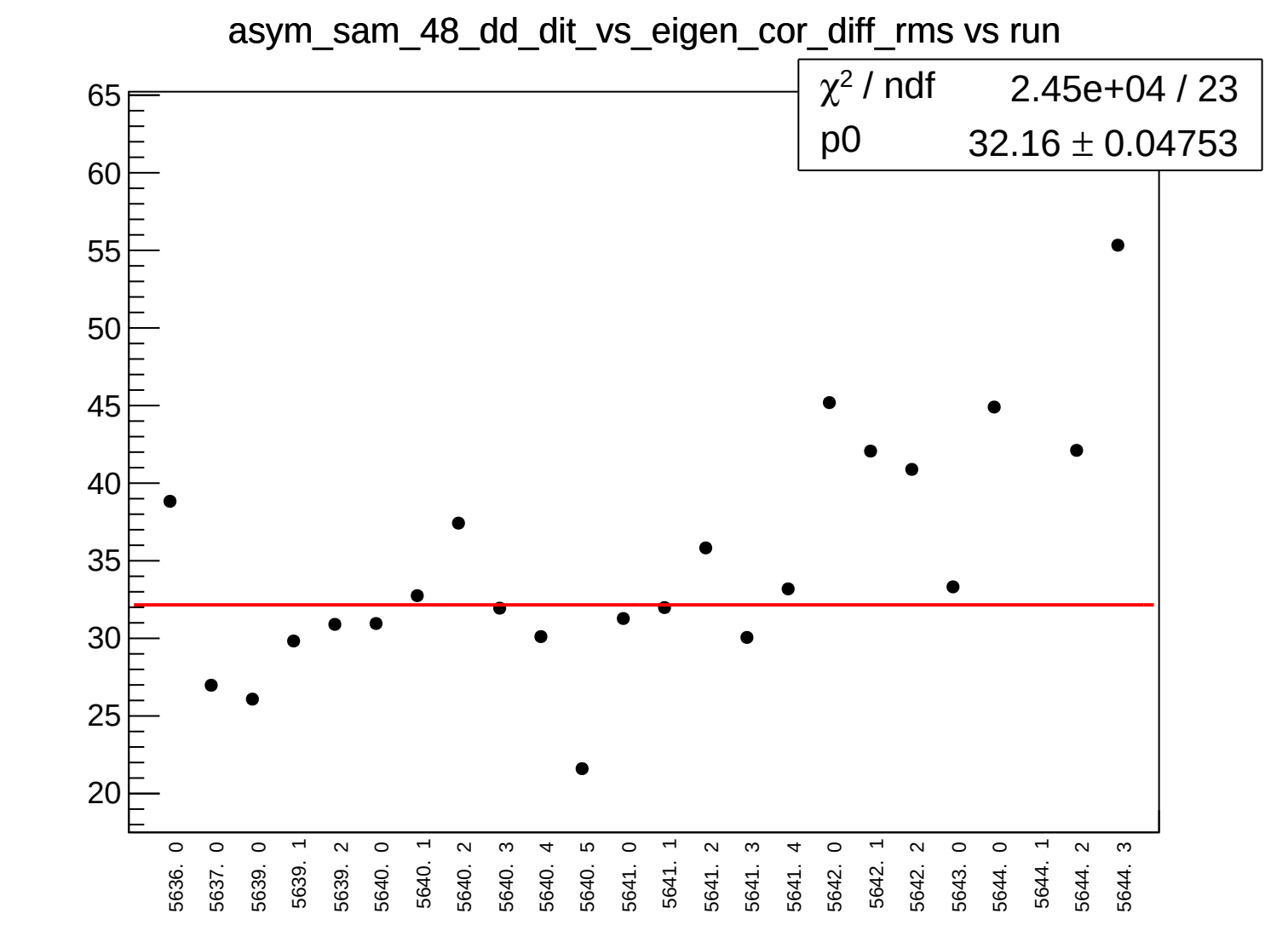

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 15.1 / 23
p0 0.0849 ± 0.06722
1.5
1
0.5
0
−0.5
−1
−1.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 59.45
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

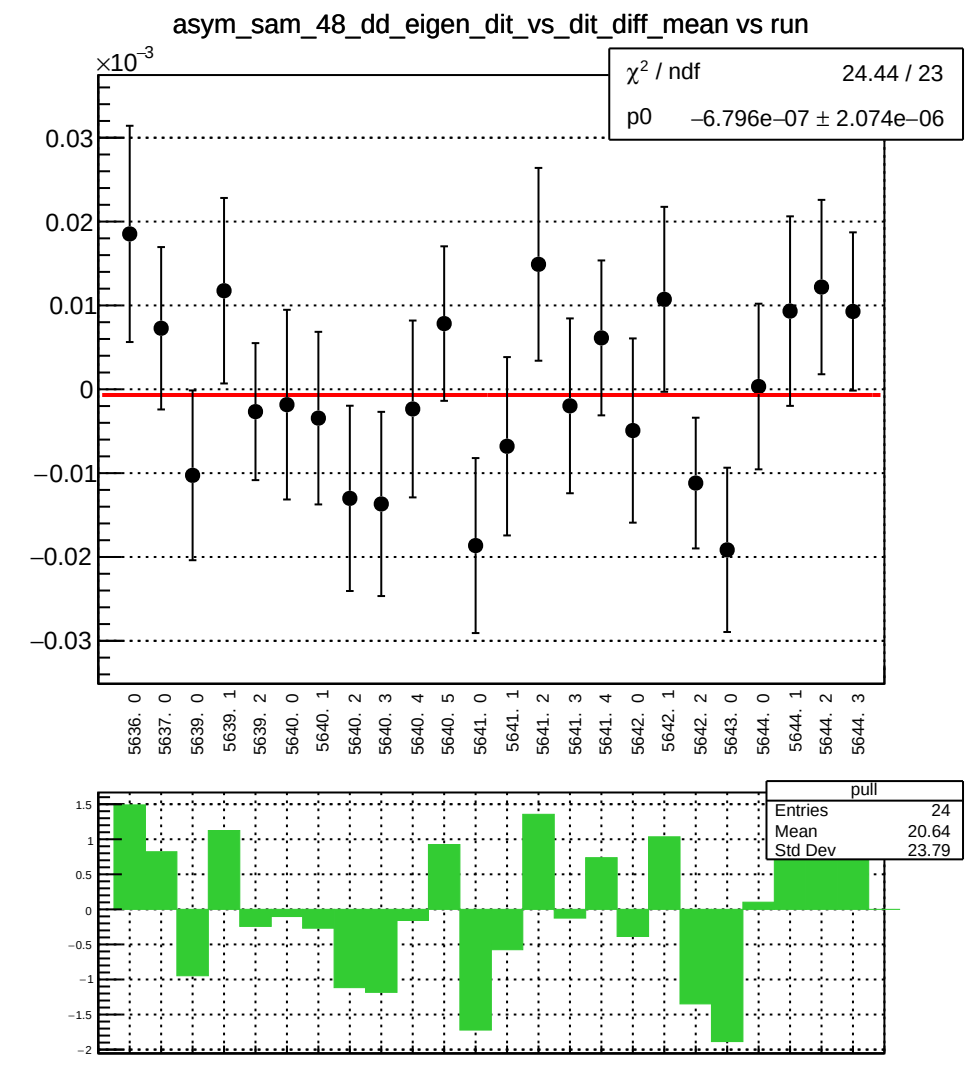

pull1D
Entries 24
Mean −0.03997
Std Dev 0.7921
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

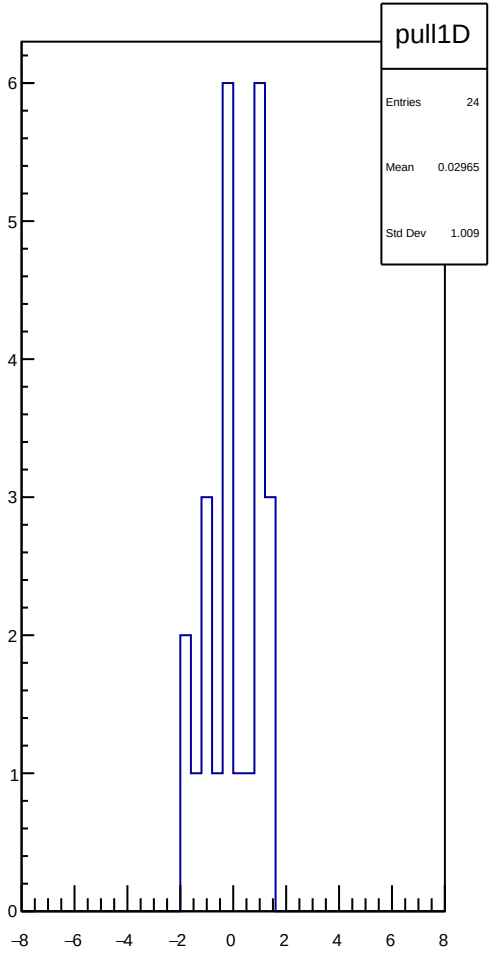

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.45e+04 / 23
p0 32.16 ± 0.04753
65
60
55
50
45
40
35
30
25
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

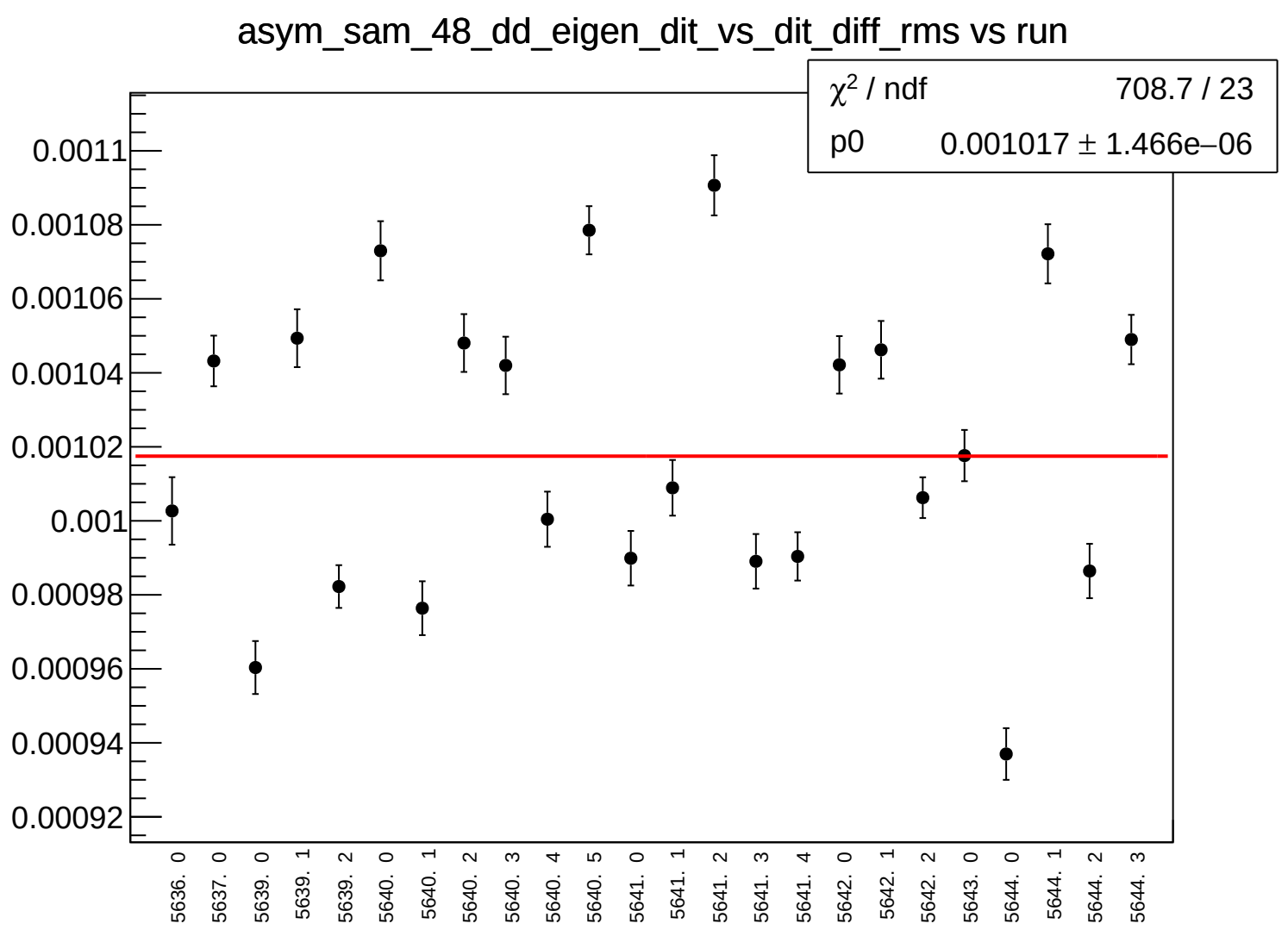

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 15.1 / 23
p0 0.0849 ± 0.06722
1.5
1
0.5
0
−0.5
−1
−1.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 59.45
Std Dev 0

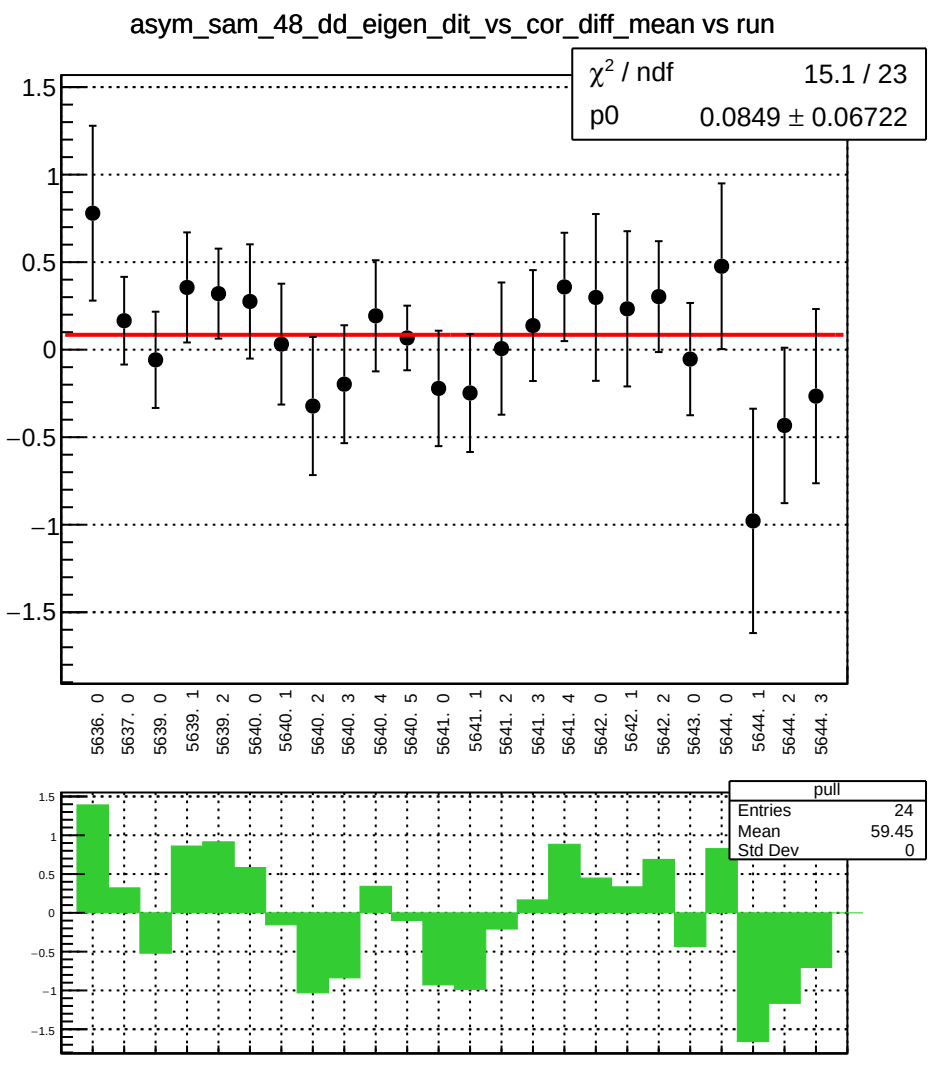

pull1D
Entries 24
Mean −0.03997
Std Dev 0.7921
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

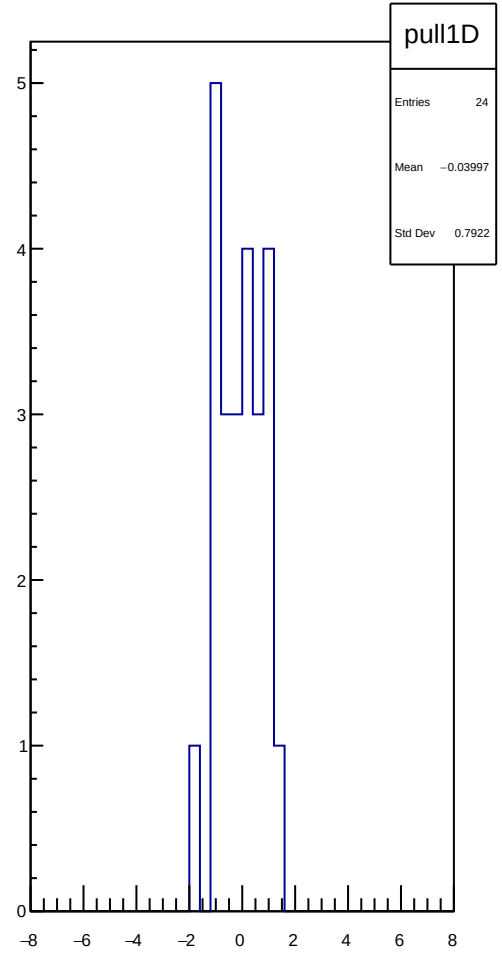

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.45e+04 / 23
p0 32.16 ± 0.04753
65
60
55
50
45
40
35
30
25
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

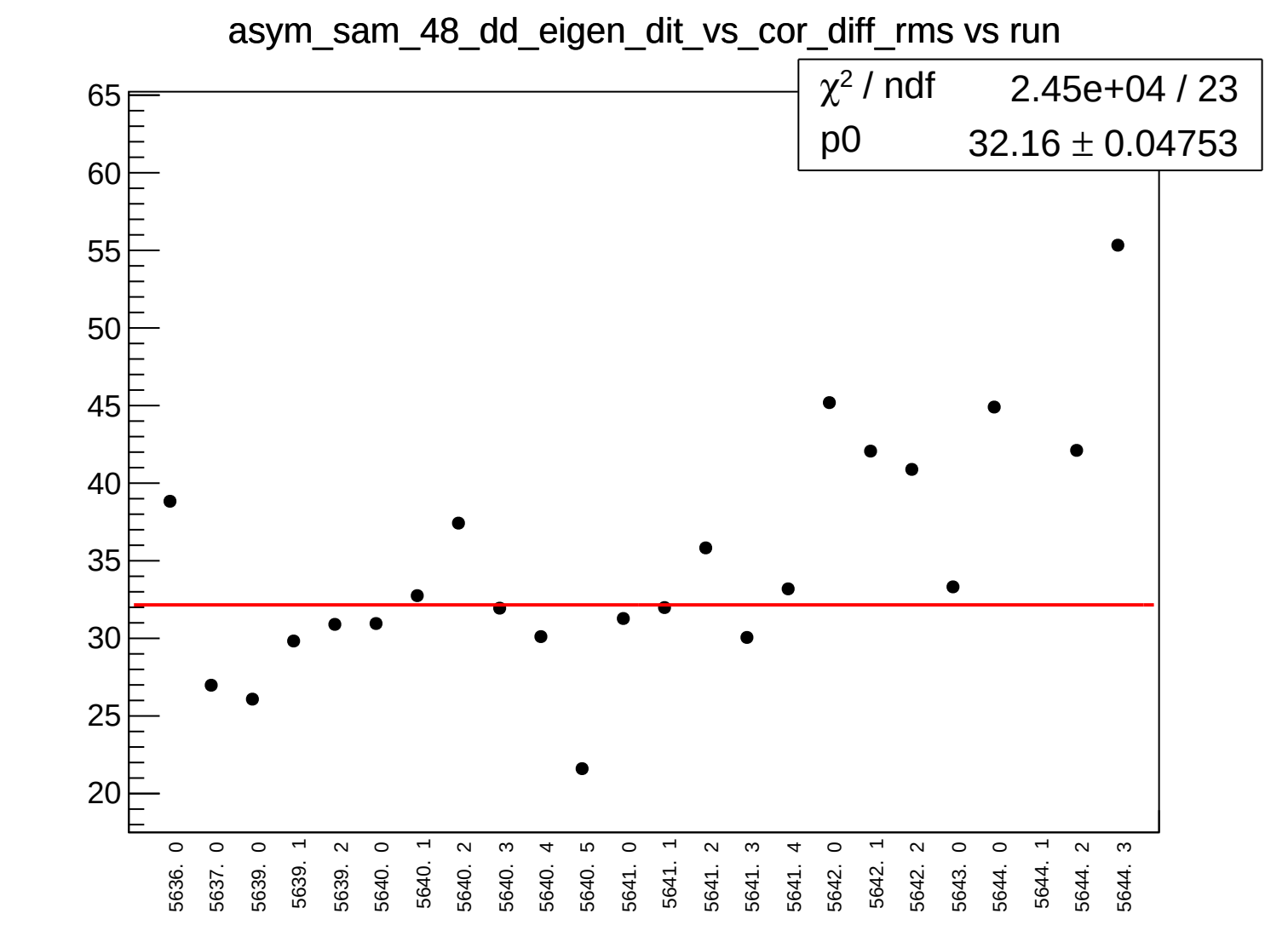

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 24.44 / 23
p0 −6.796e−07 ± 2.074e−06
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 20.64
Std Dev 23.79
1.5
1
0.5
0
−0.5
−1
−1.5
−2

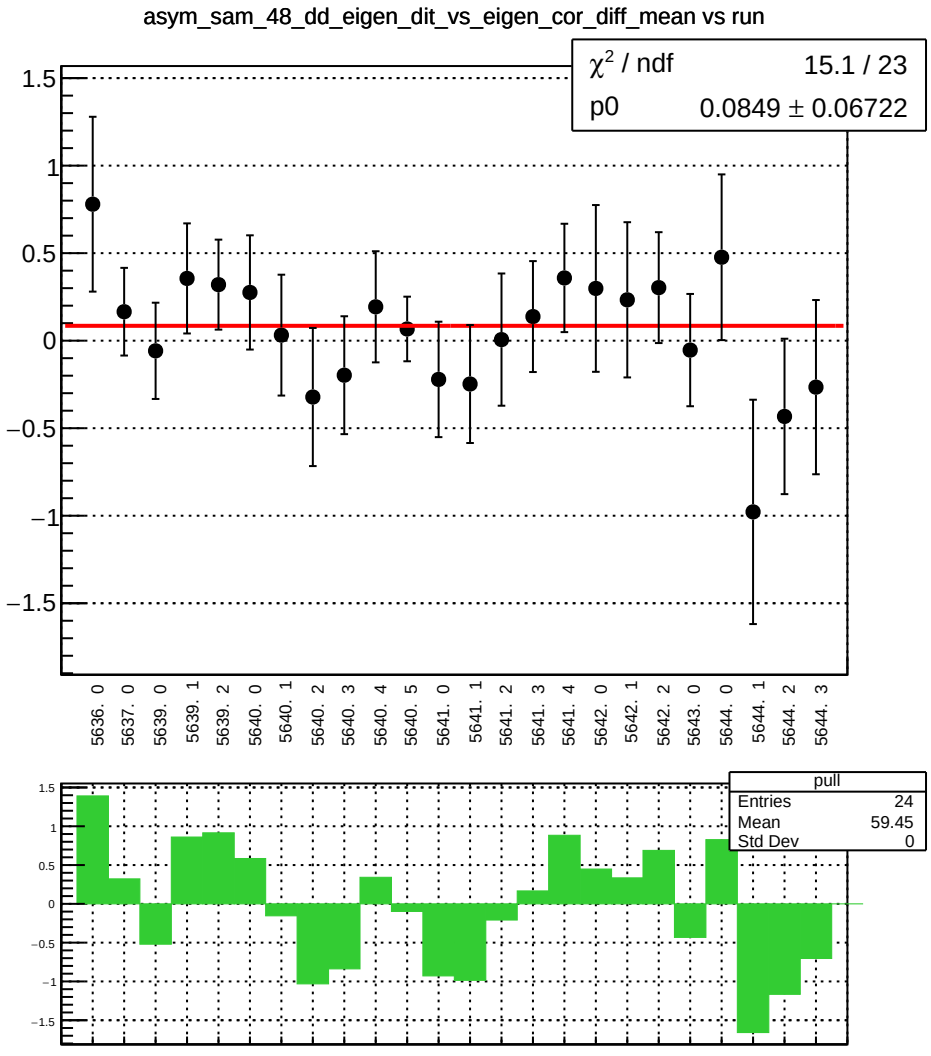

pull1D
Entries 24
Mean 0.02965
Std Dev 1.009
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

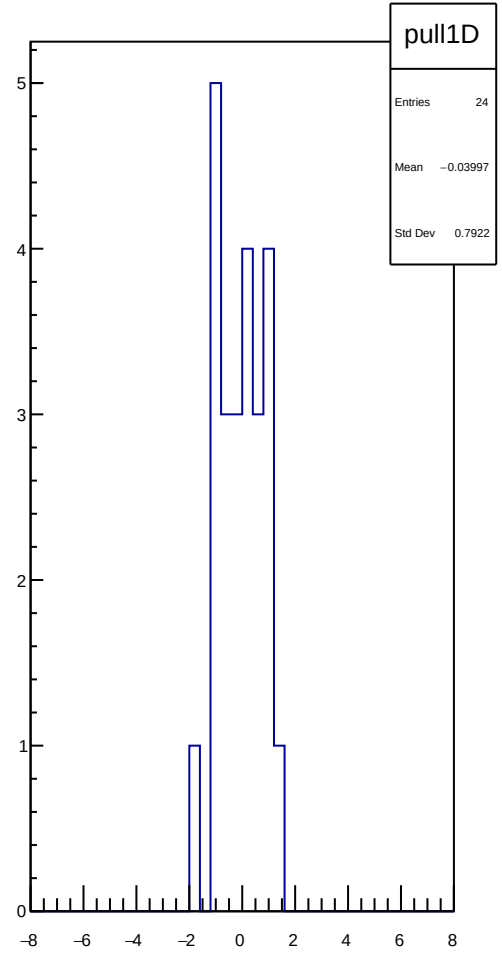

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 708.7 / 23
p0 0.001017 ± 1.466e−06
0.0011
0.00108
0.00106
0.00104
0.00102
0.001
0.00098
0.00096
0.00094
0.00092
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

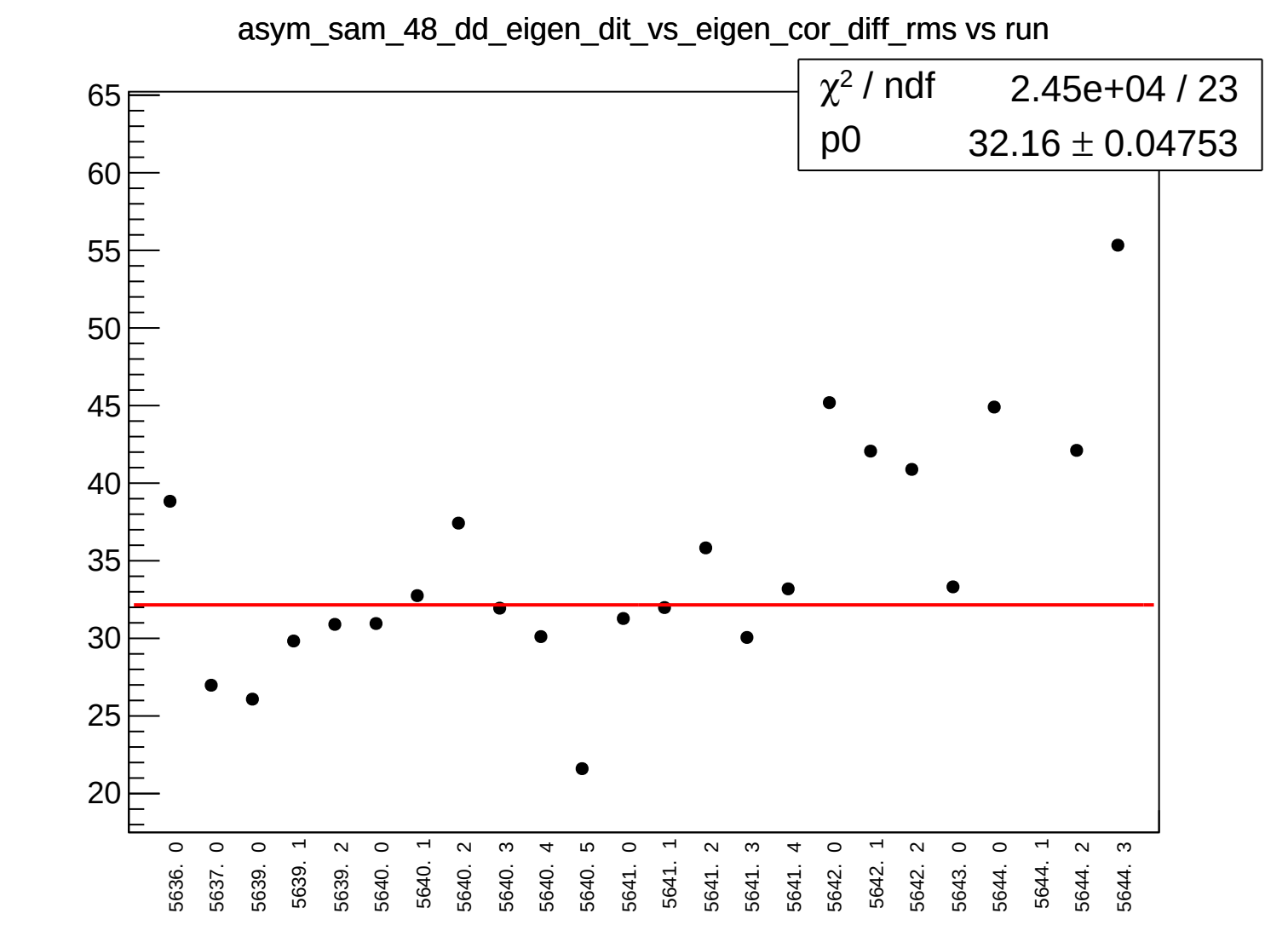

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 15.1 / 23
p0 0.0849 ± 0.06722
1.5
1
0.5
0
−0.5
−1
−1.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 59.45
Std Dev 0

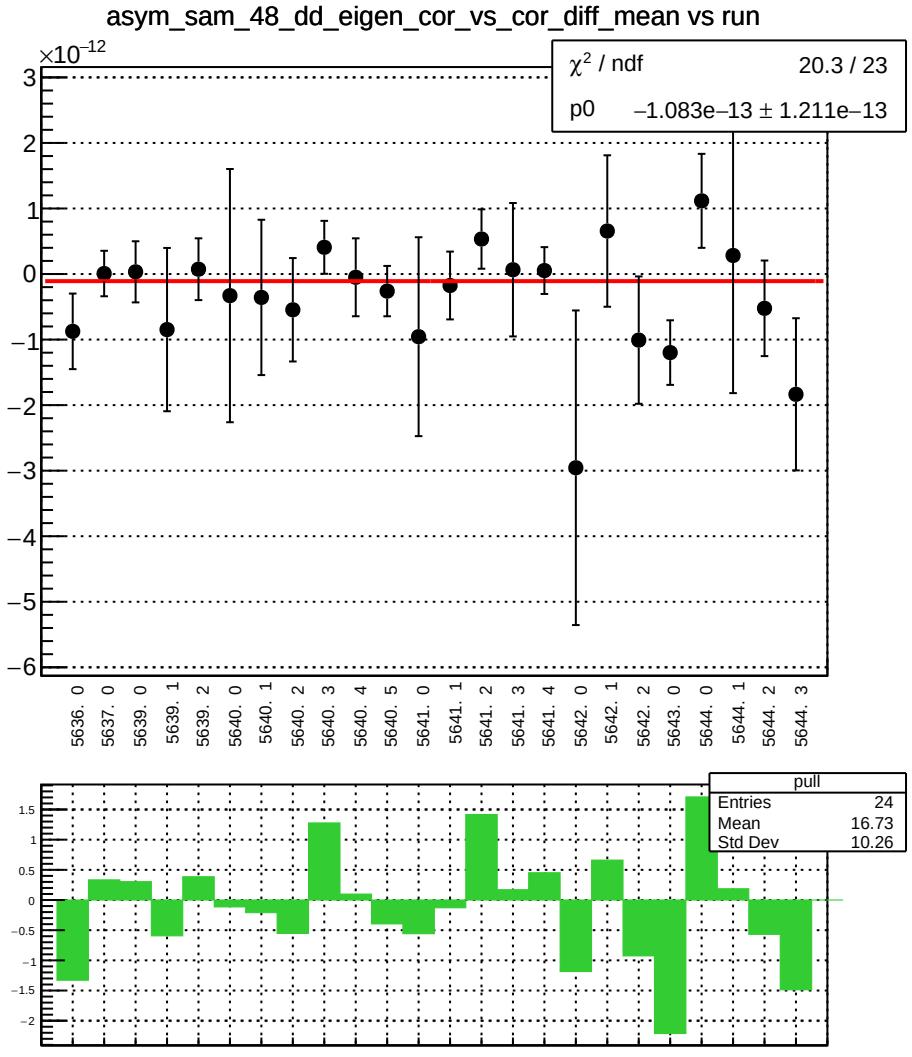

pull1D
Entries 24
Mean −0.03997
Std Dev 0.7922
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

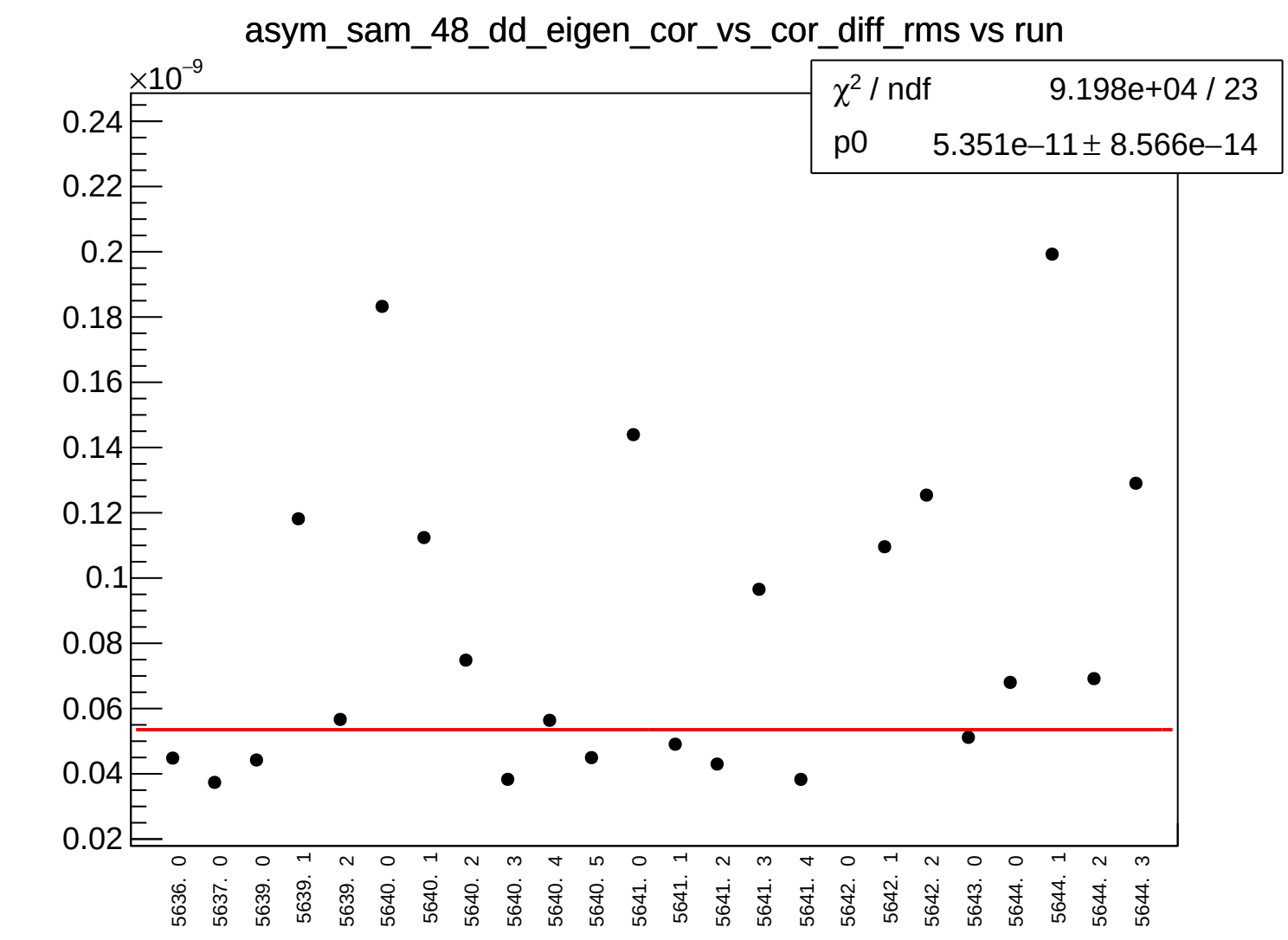

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.45e+04 / 23
p0 32.16 ± 0.04753
65
60
55
50
45
40
35
30
25
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

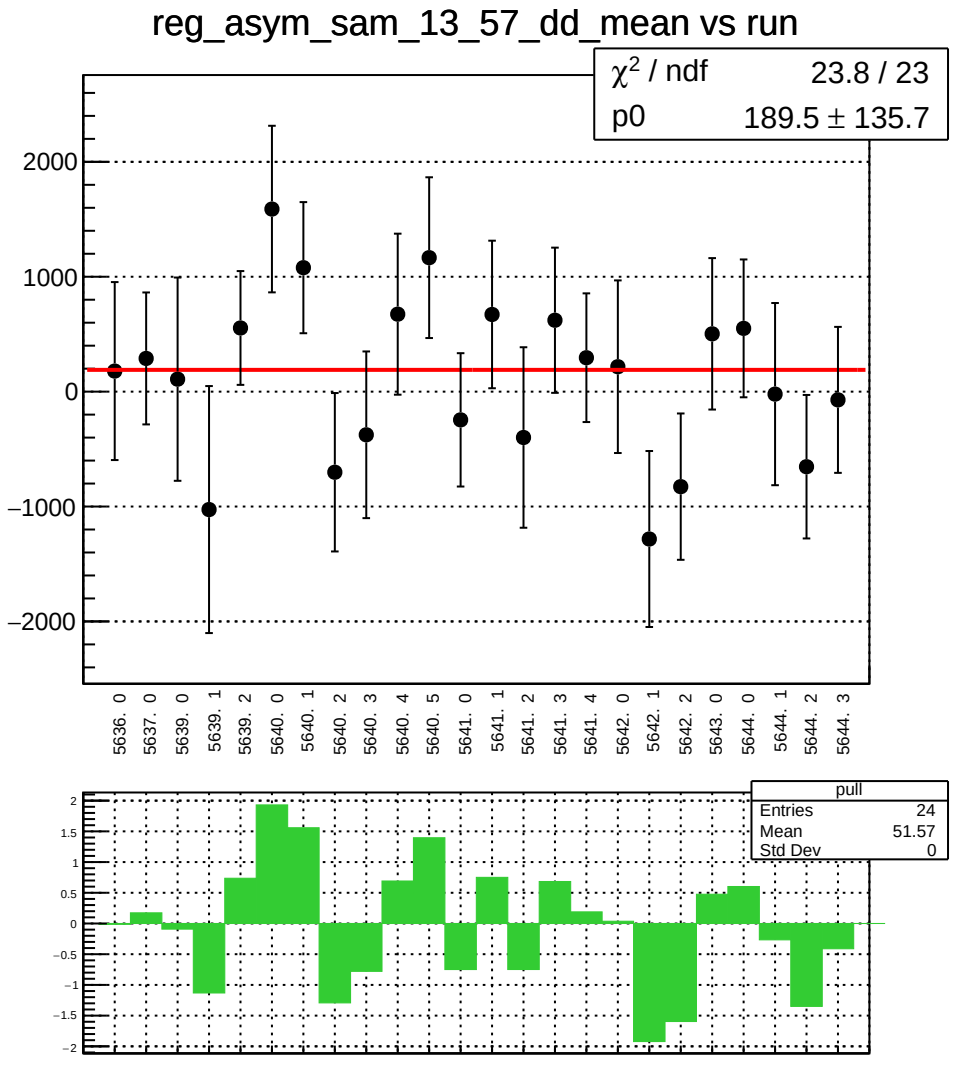

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 15.1 / 23
p0 0.0849 ± 0.06722
1.5
1
0.5
0
−0.5
−1
−1.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 59.45
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

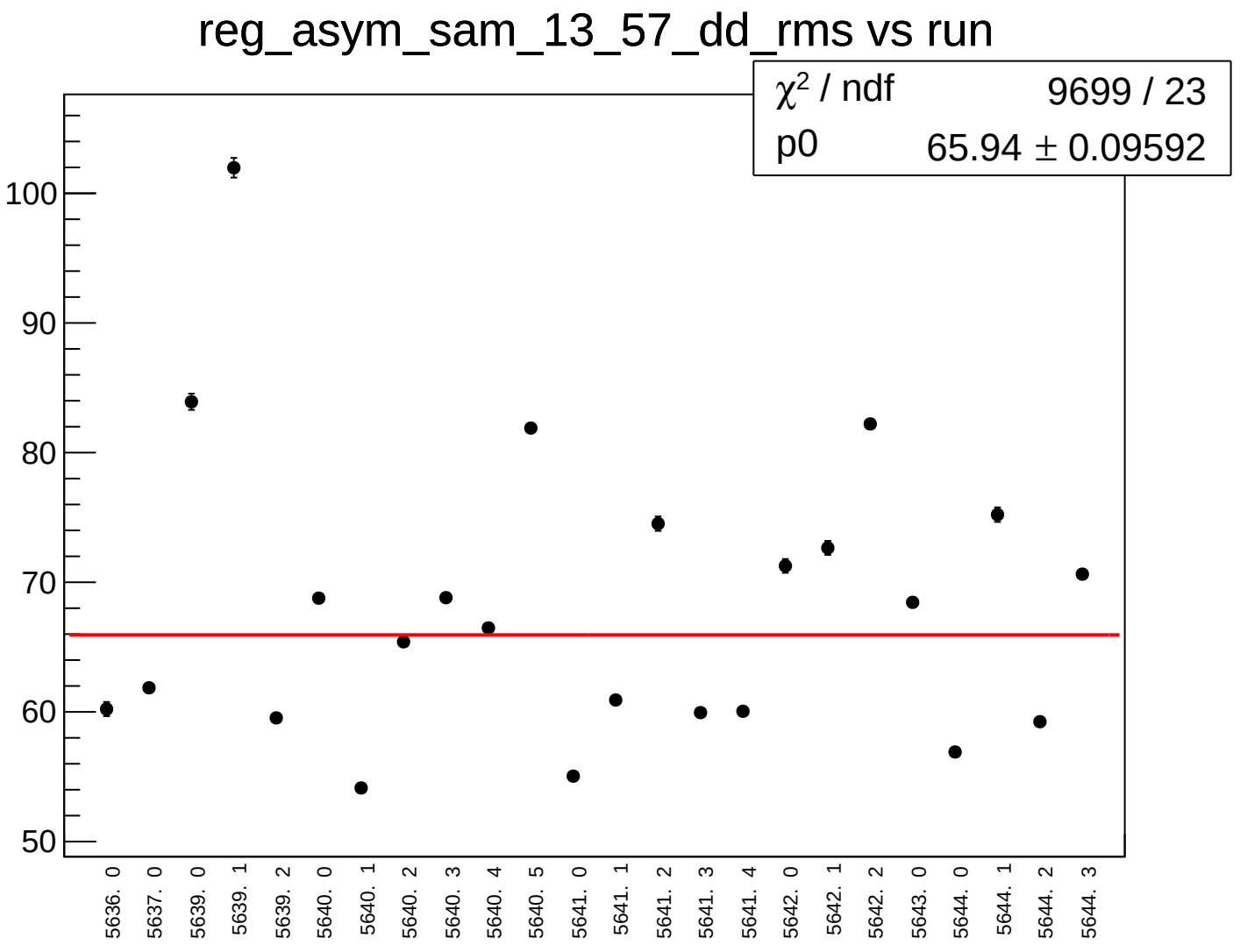

pull1D
Entries 24
Mean −0.03997
Std Dev 0.7922
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

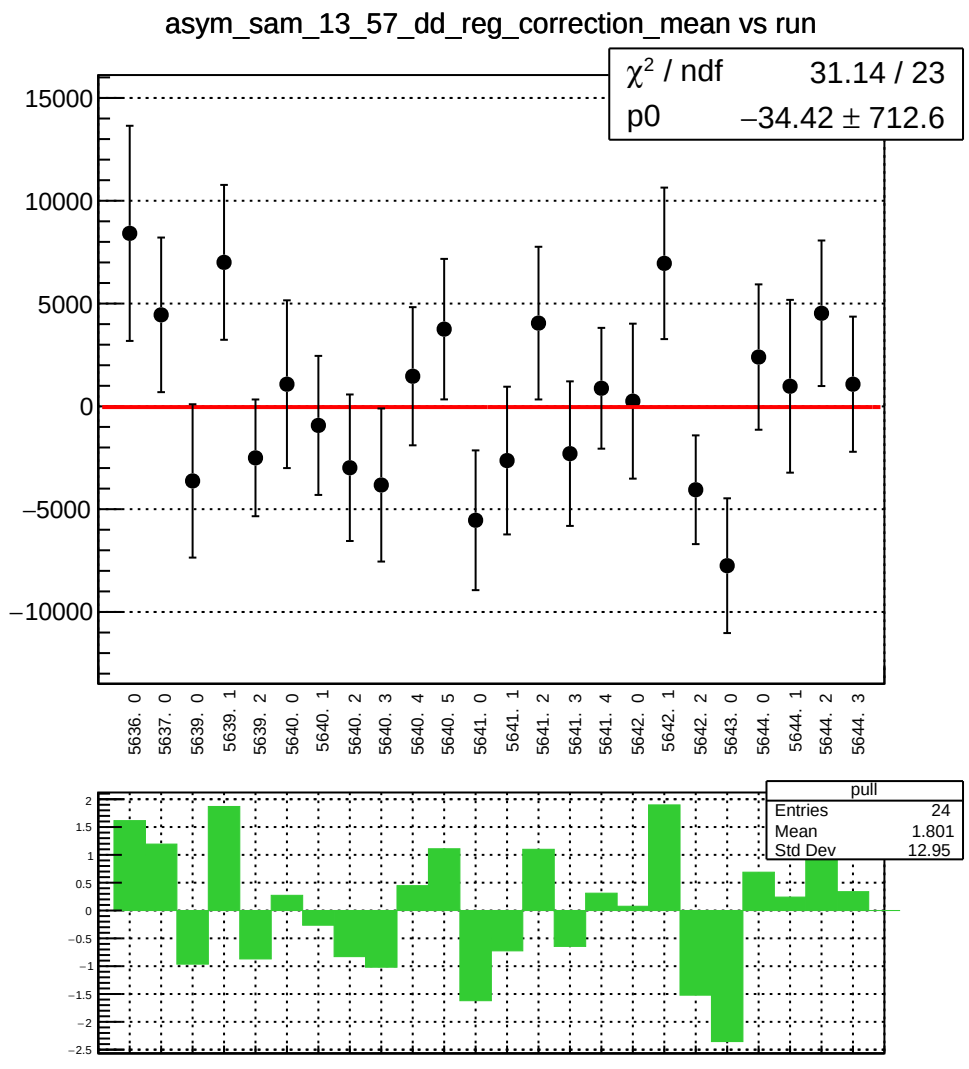

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.45e+04 / 23
p0 32.16 ± 0.04753
65
60
55
50
45
40
35
30
25
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

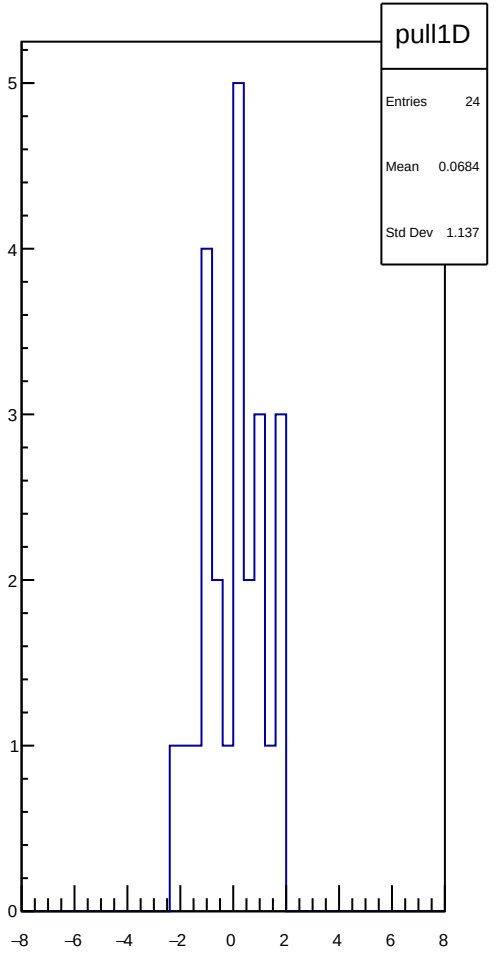

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 20.3 / 23
p0 −1.083e−13 ± 1.211e−13
3
2
1
0
−1
−2
−3
−4
−5
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 16.73
Std Dev 10.26
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.1362
Std Dev 0.9095
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

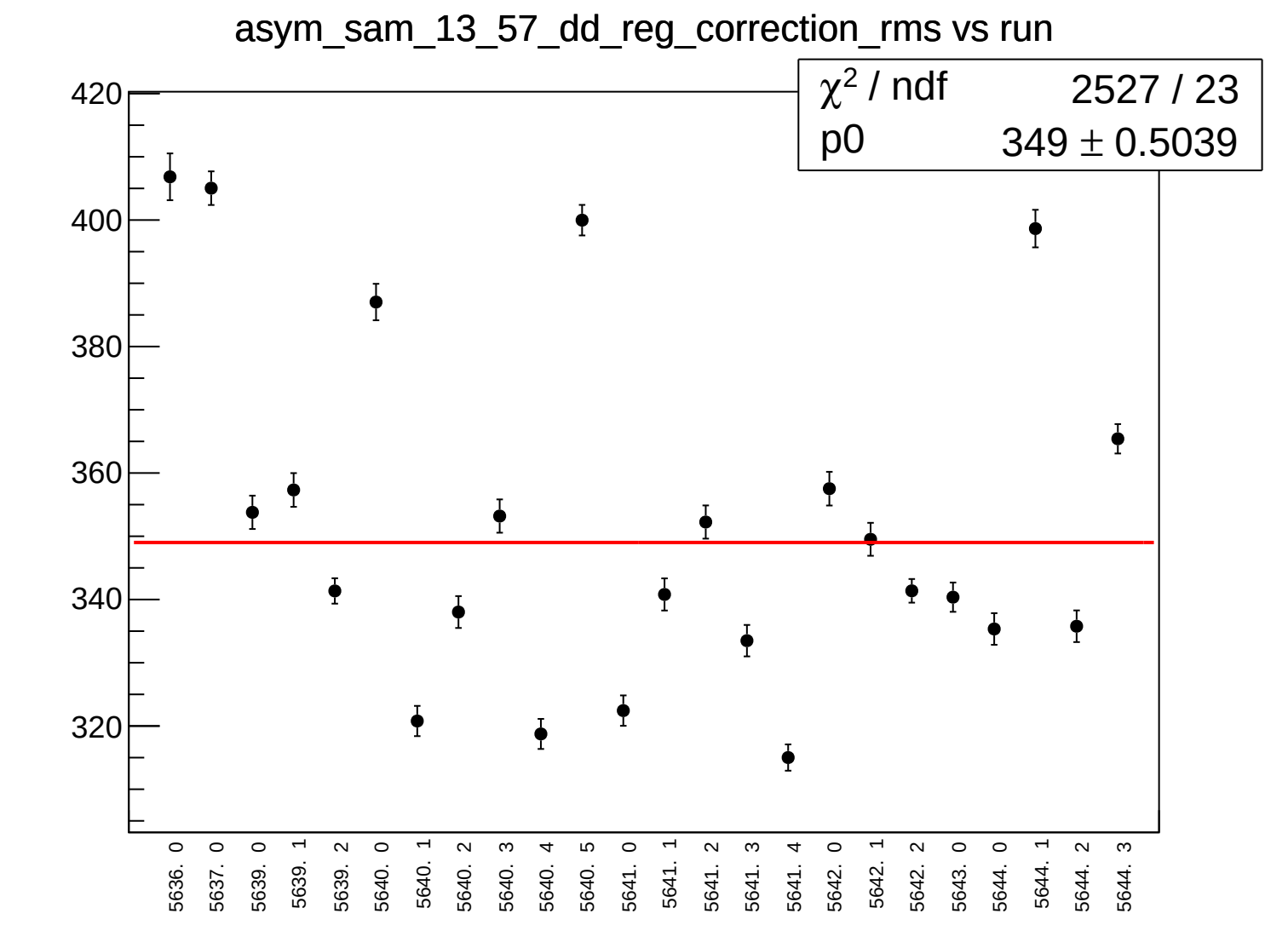

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.198e+04 / 23
p0 5.351e−11 ± 8.566e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

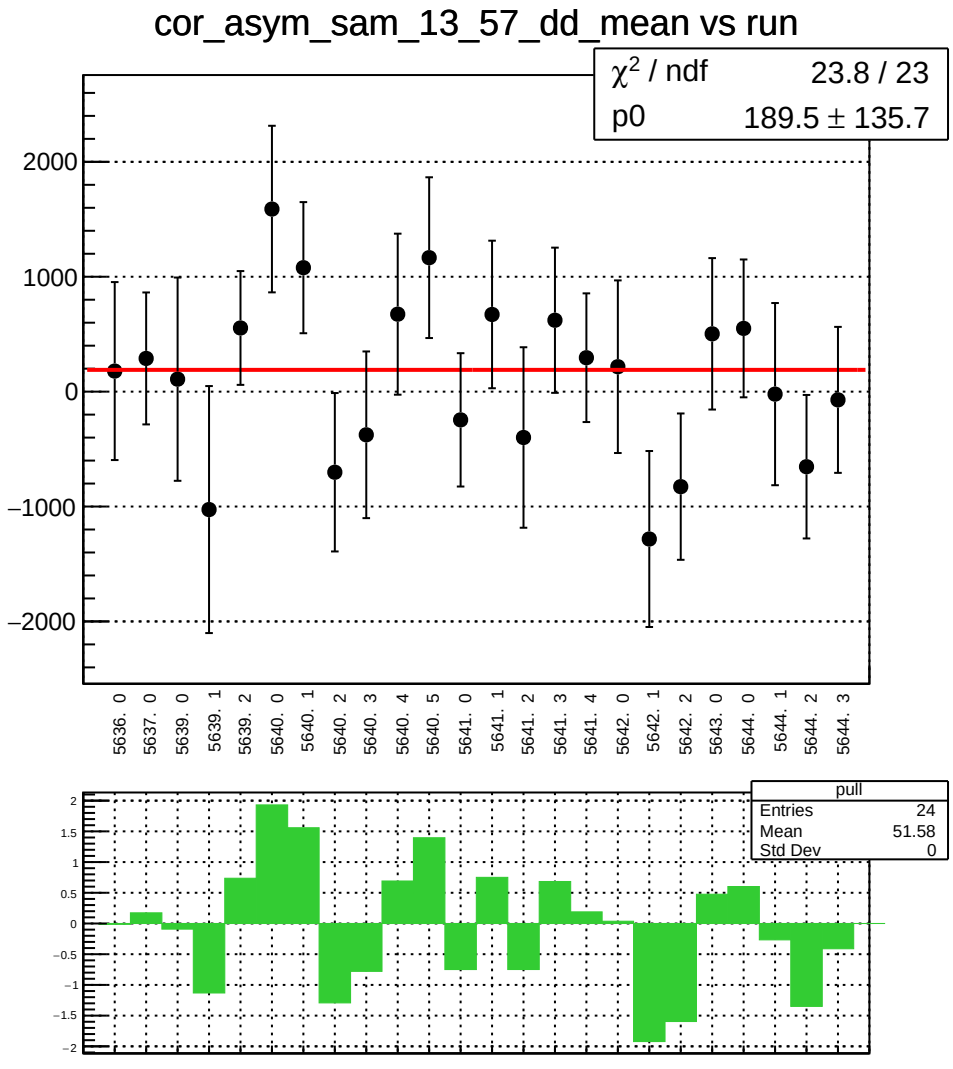

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 23.8 / 23
p0 189.5 ± 135.7
2000
1000
0
−1000
−2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 51.57
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.04699
Std Dev 0.9948
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

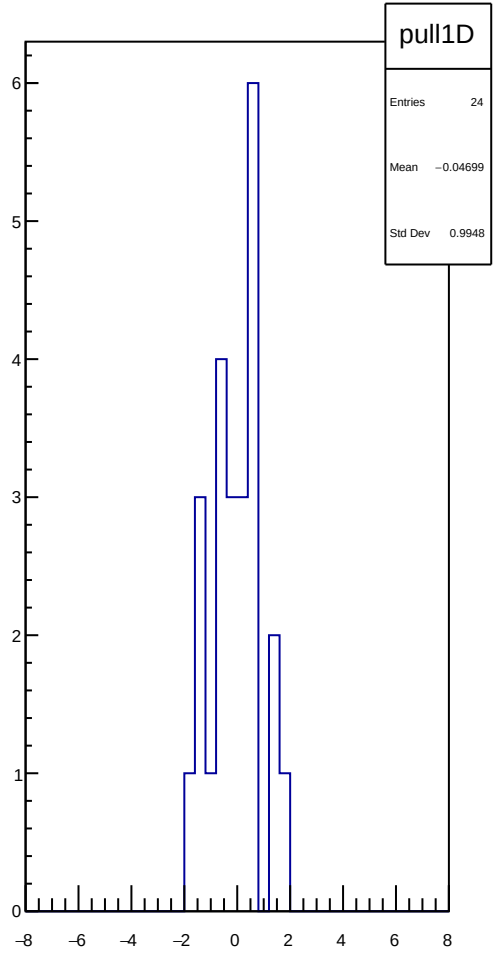

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 9699 / 23
p0 65.94 ± 0.09592
100
90
80
70
60
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

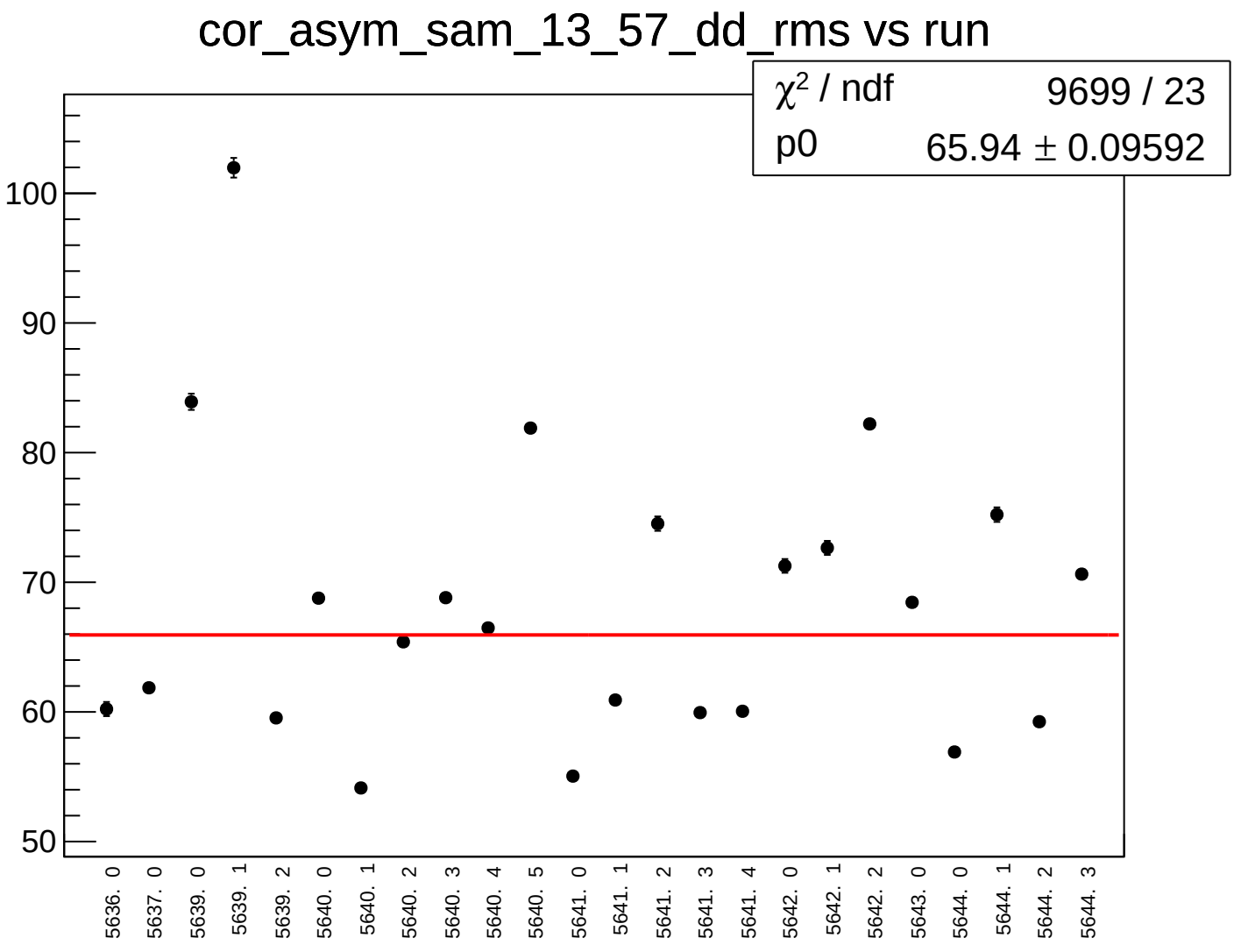

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 31.14 / 23
p0 −34.42 ± 712.6
15000
10000
5000
0
−5000
−10000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 1.801
Std Dev 12.95
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

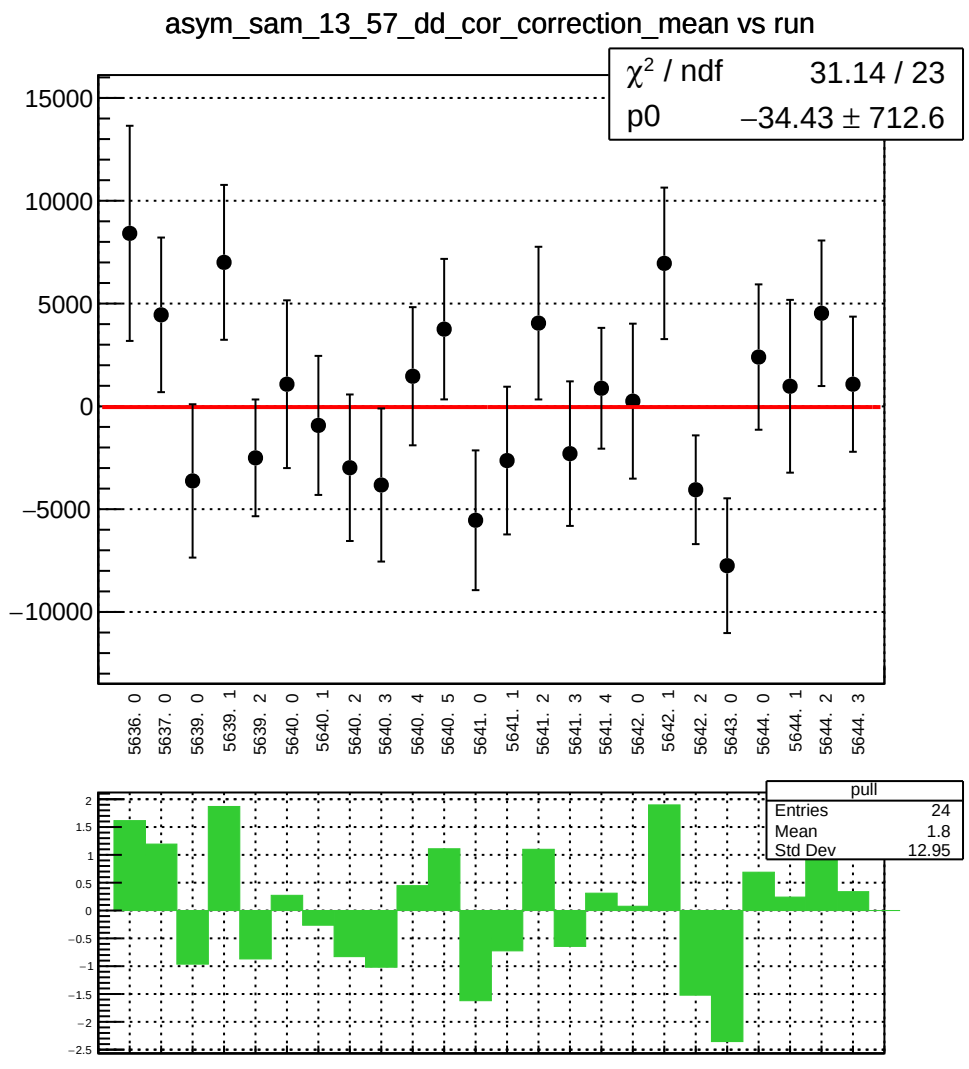

pull1D
Entries 24
Mean 0.0684
Std Dev 1.137
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

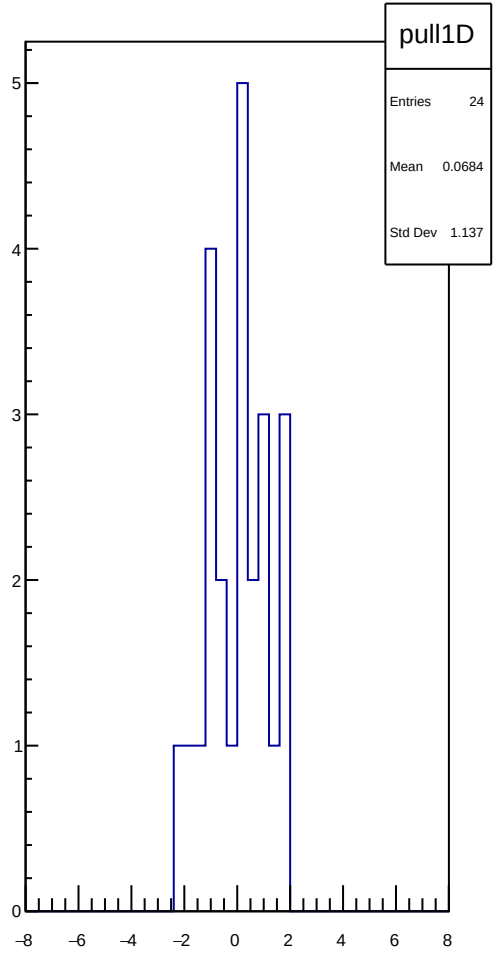

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 2527 / 23
p0 349 ± 0.5039
420
400
380
360
340
320
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

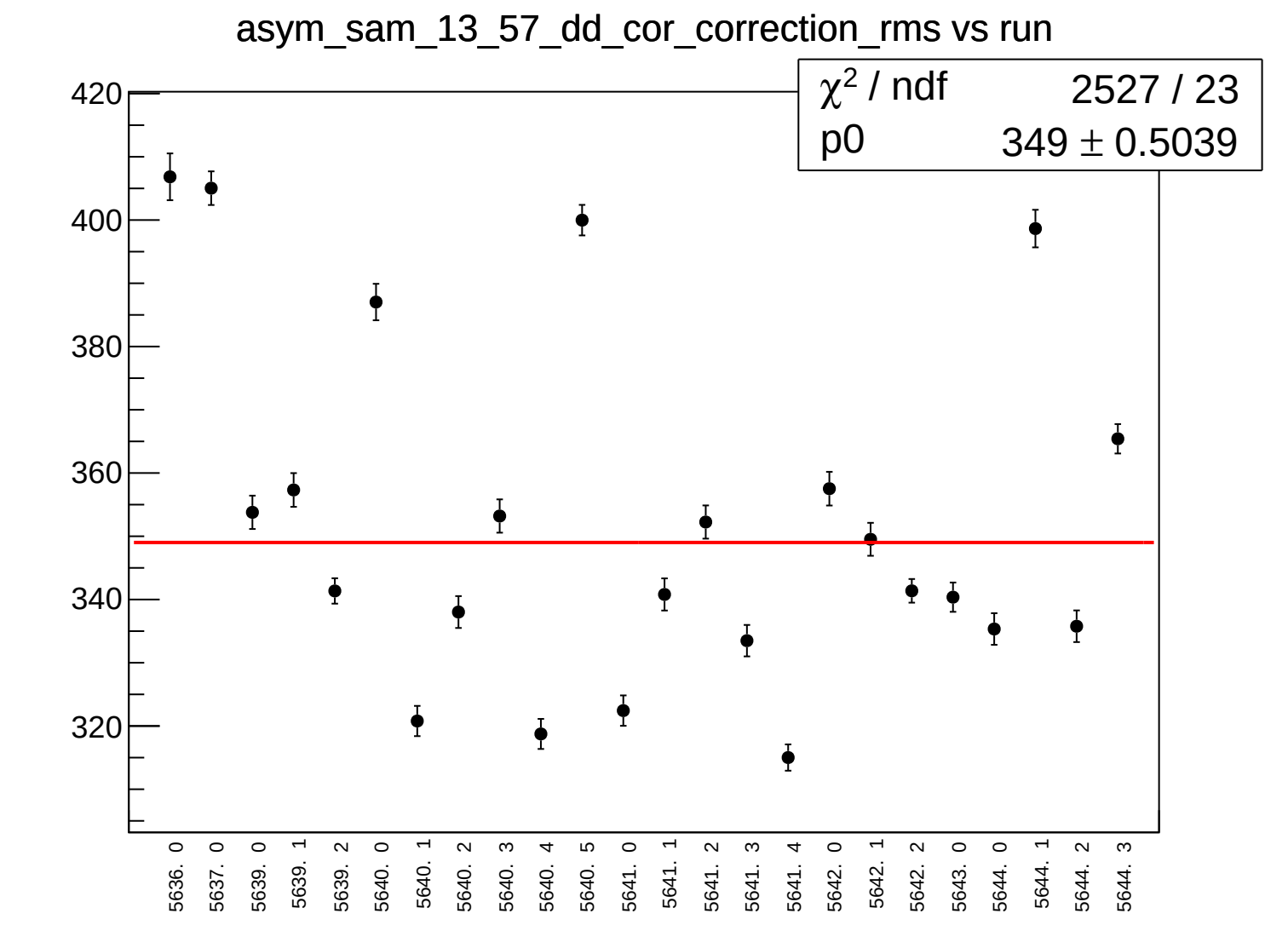

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 23.8 / 23
p0 189.5 ± 135.7
2000
1000
0
−1000
−2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 51.58
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

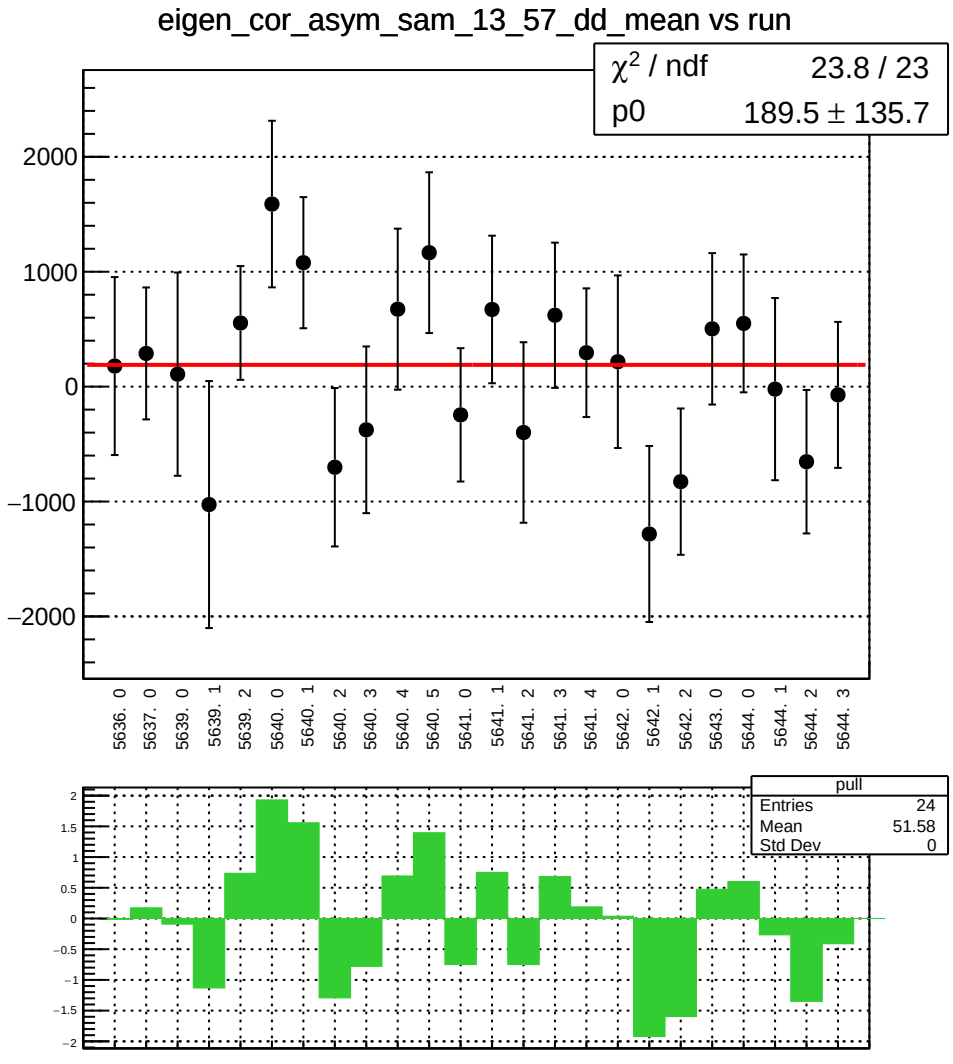

pull1D
Entries 24
Mean −0.04699
Std Dev 0.9948
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

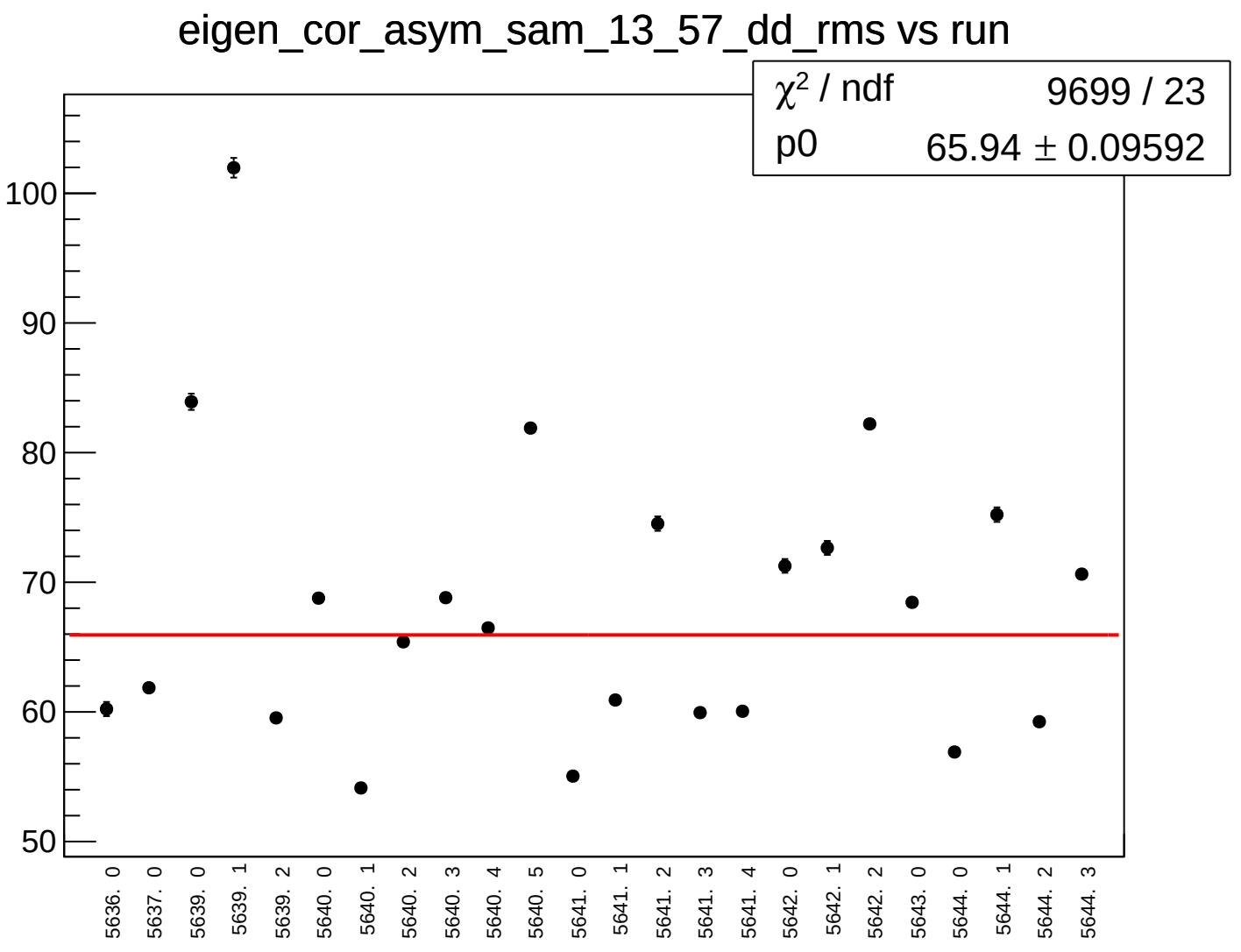

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 9699 / 23
p0 65.94 ± 0.09592
100
90
80
70
60
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

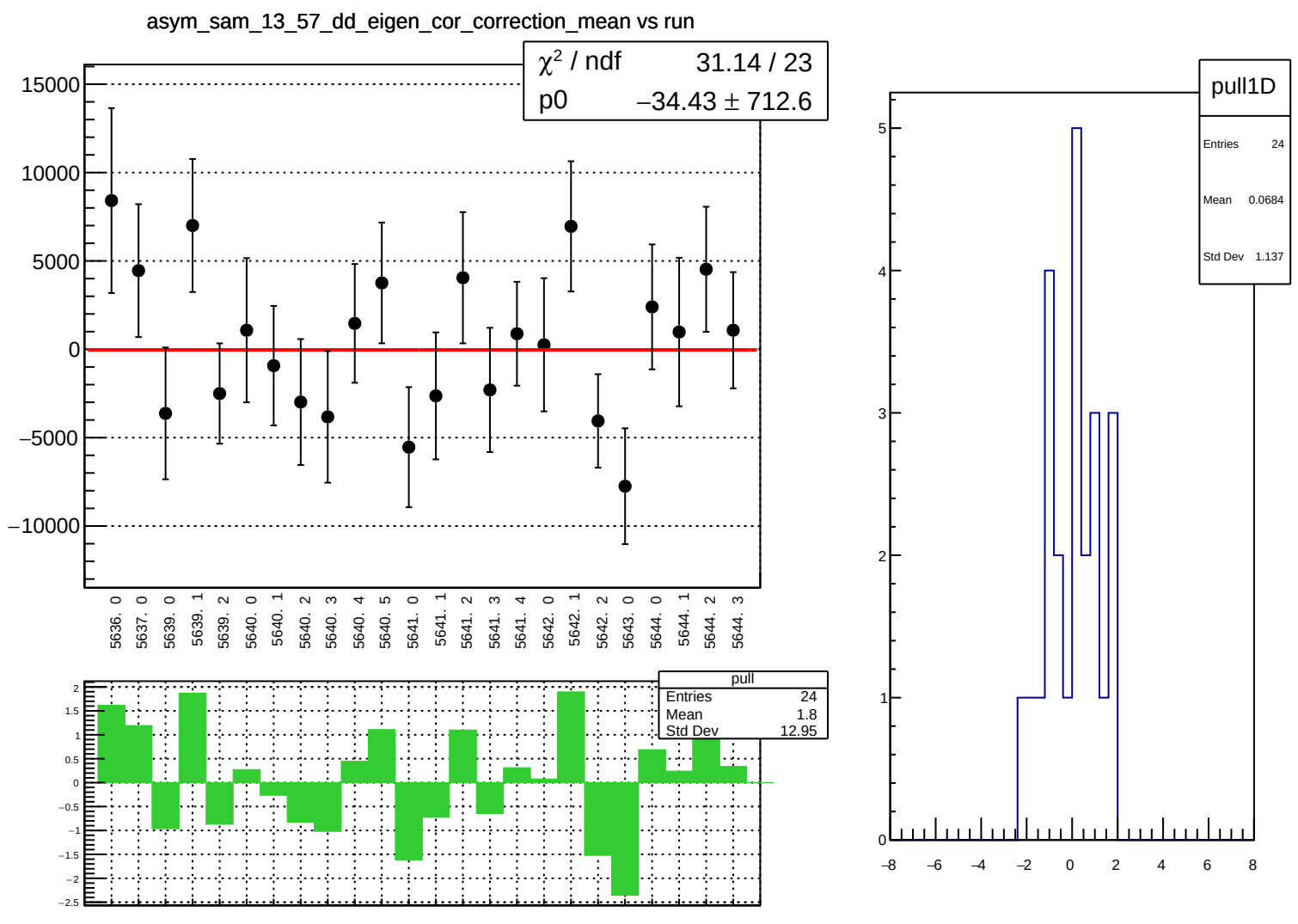

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 31.14 / 23
p0 −34.43 ± 712.6
15000
10000
5000
0
−5000
−10000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 1.8
Std Dev 12.95
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

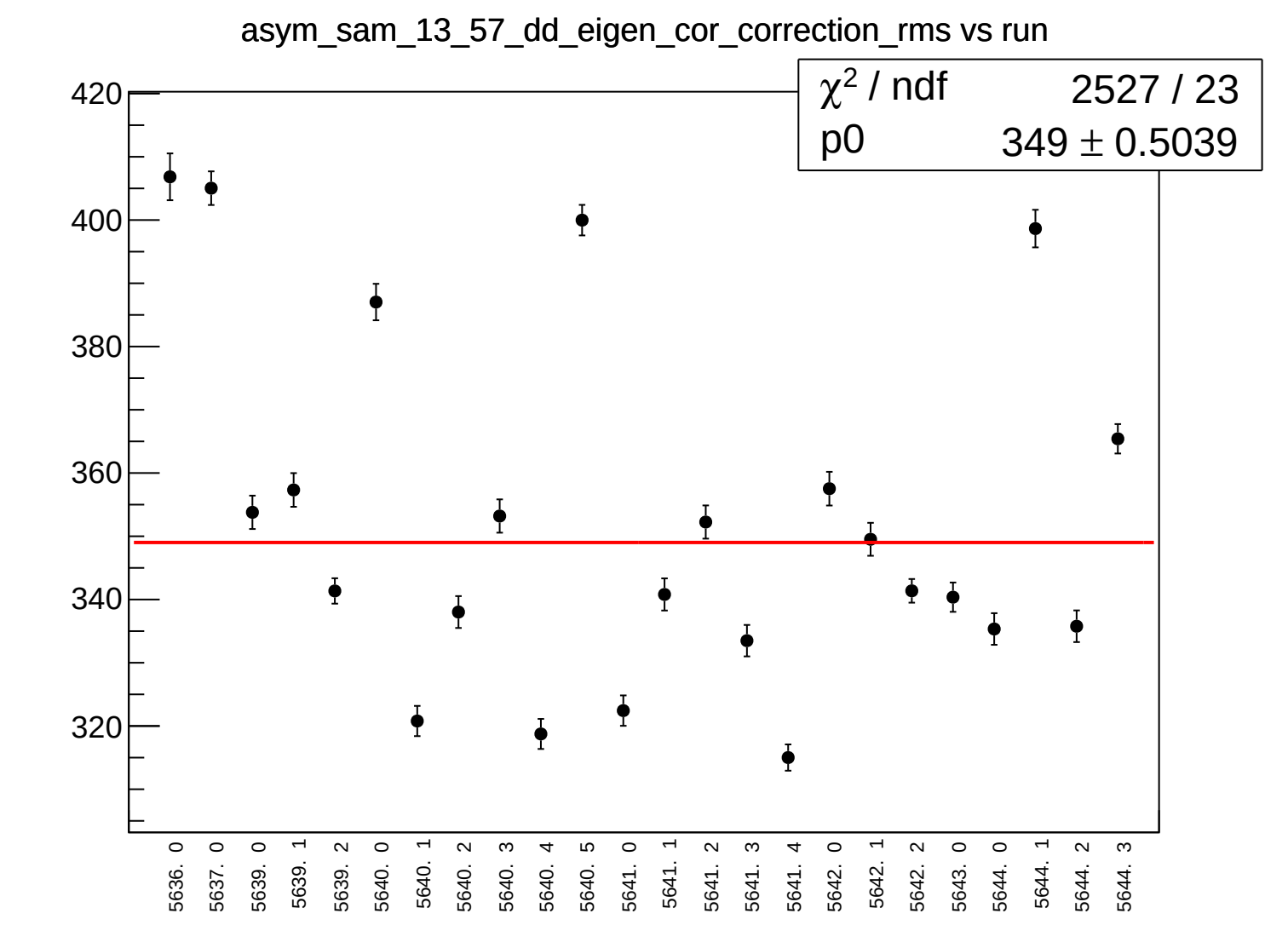

pull1D
Entries 24
Mean 0.0684
Std Dev 1.137
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

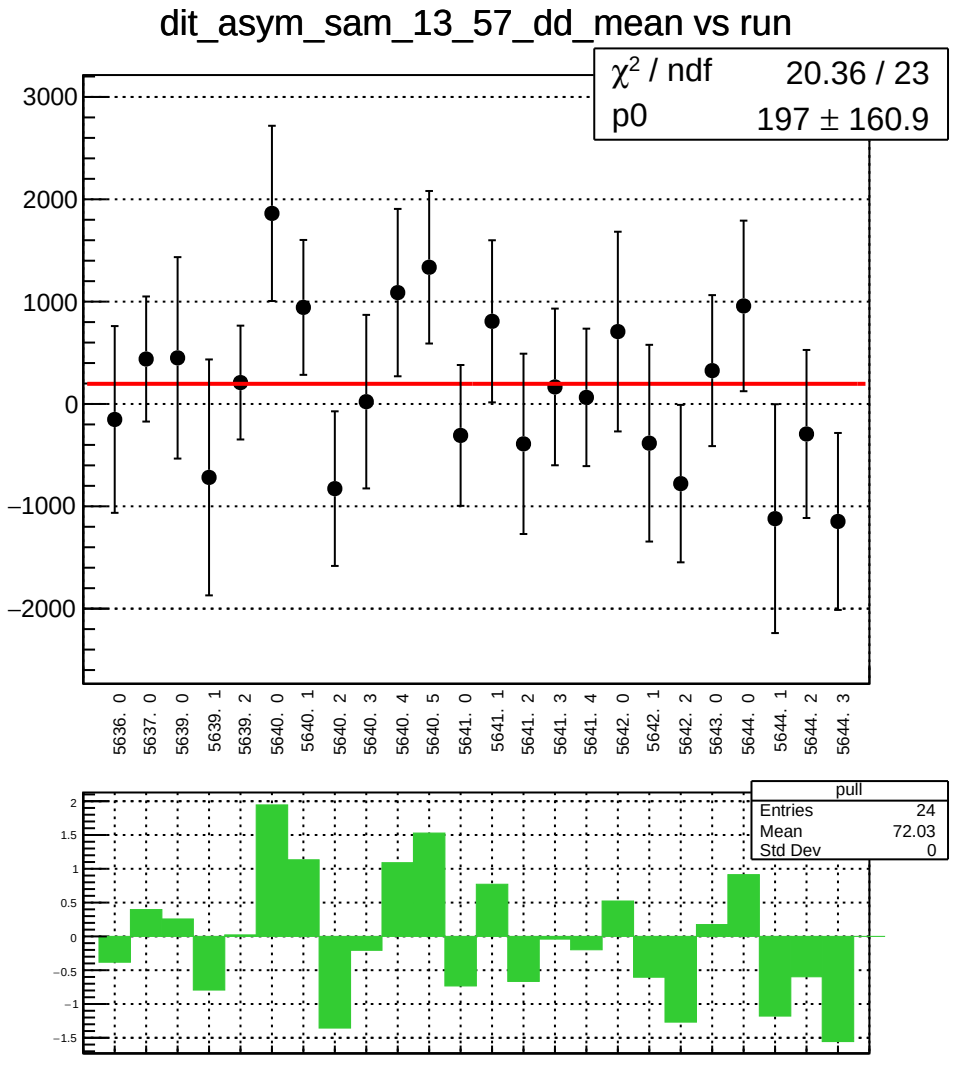

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 2527 / 23
p0 349 ± 0.5039
420
400
380
360
340
320
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

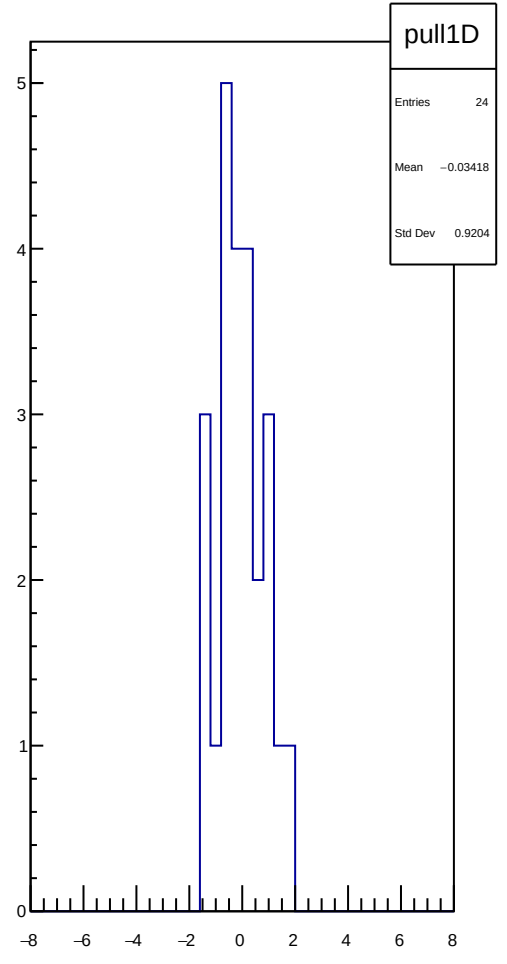

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 23.8 / 23
p0 189.5 ± 135.7
2000
1000
0
−1000
−2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 51.58
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.04699
Std Dev 0.9948
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

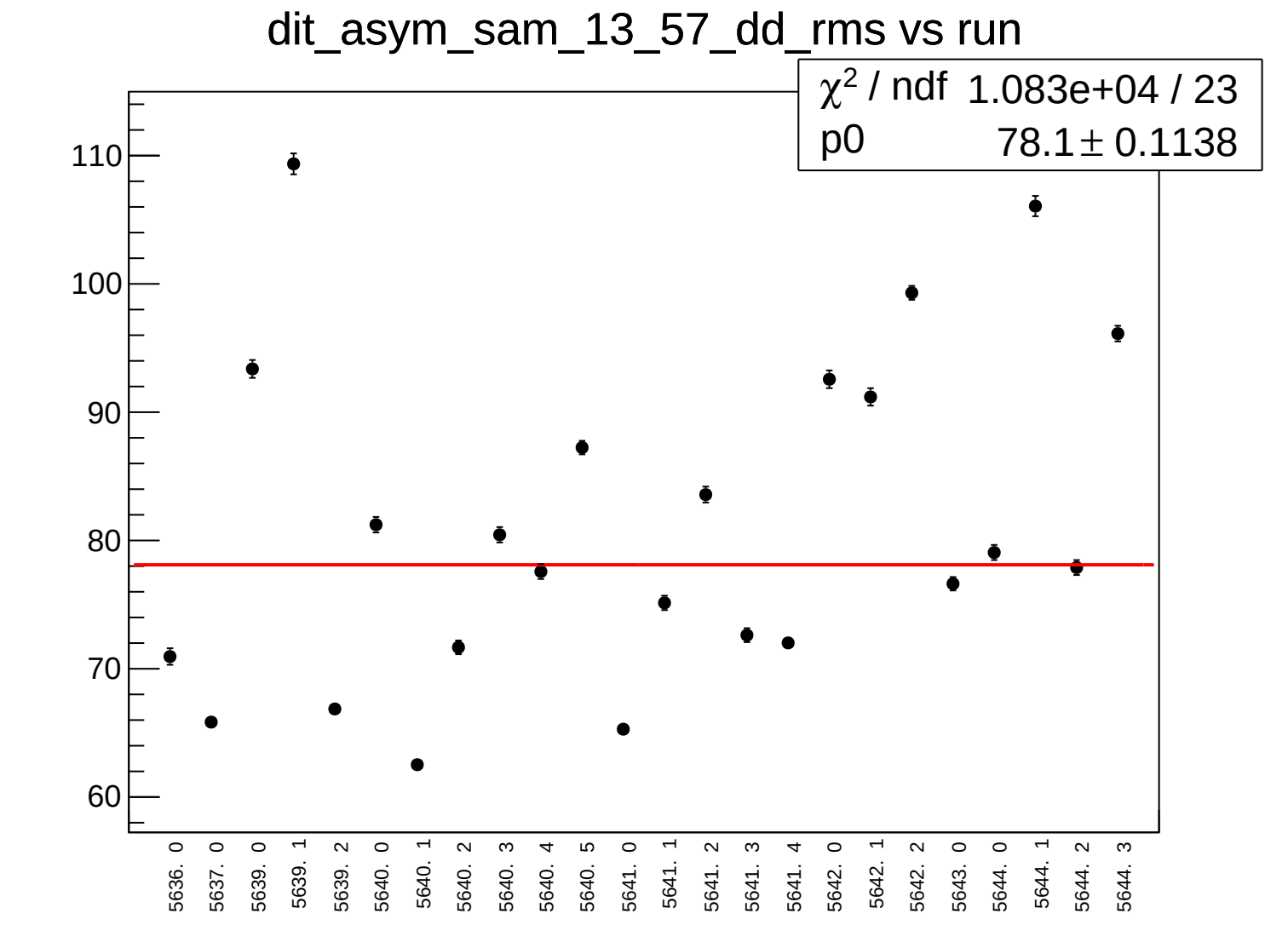

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 9699 / 23
p0 65.94 ± 0.09592
100
90
80
70
60
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 31.14 / 23
p0 −34.43 ± 712.6
15000
10000
5000
0
−5000
−10000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 1.8
Std Dev 12.95
pull1D
Entries 24
Mean 0.0684
Std Dev 1.137


asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 2527 / 23
p0 349 ± 0.5039
420
400
380
360
340
320
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 20.36 / 23
p0 197 ± 160.9
3000
2000
1000
0
−1000
−2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 72.03
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean −0.03418
Std Dev 0.9204
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.083e+04 / 23
p0 78.1 ± 0.1138
110
100
90
80
70
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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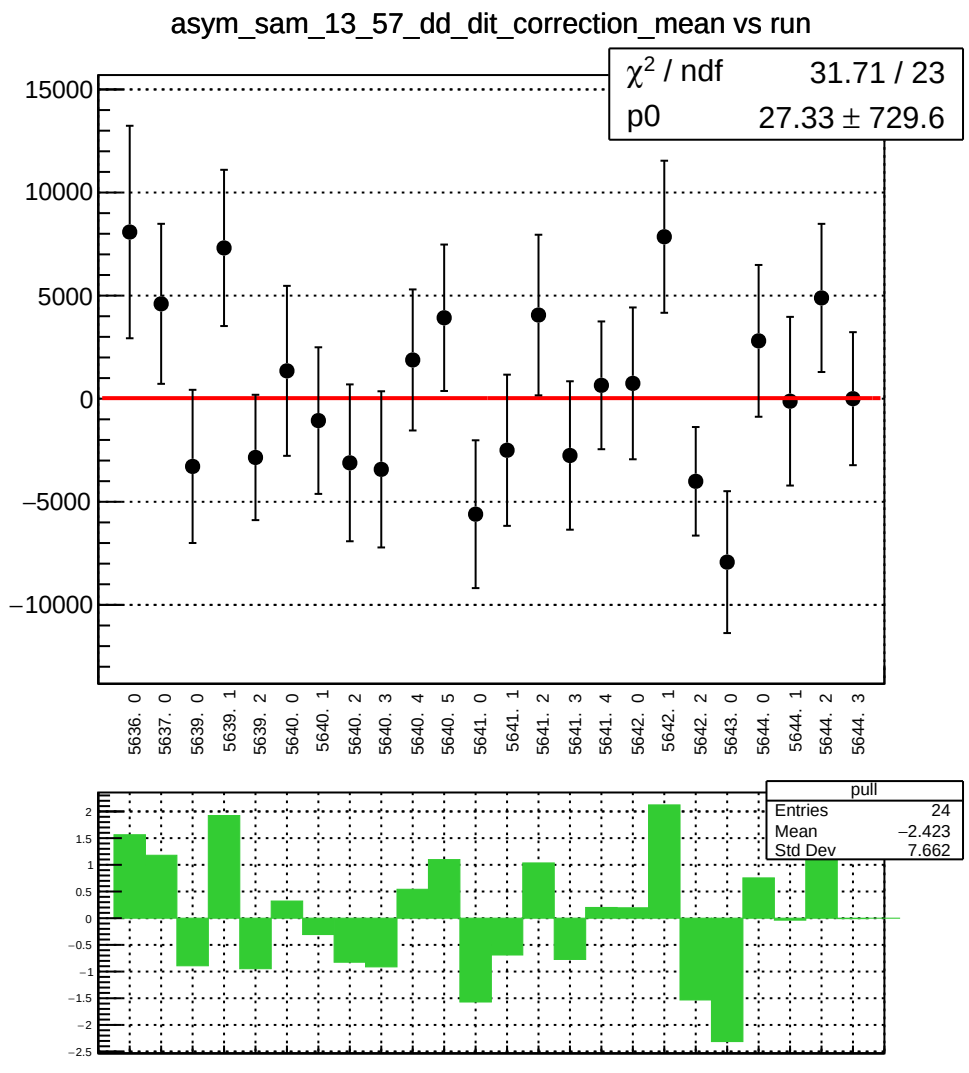
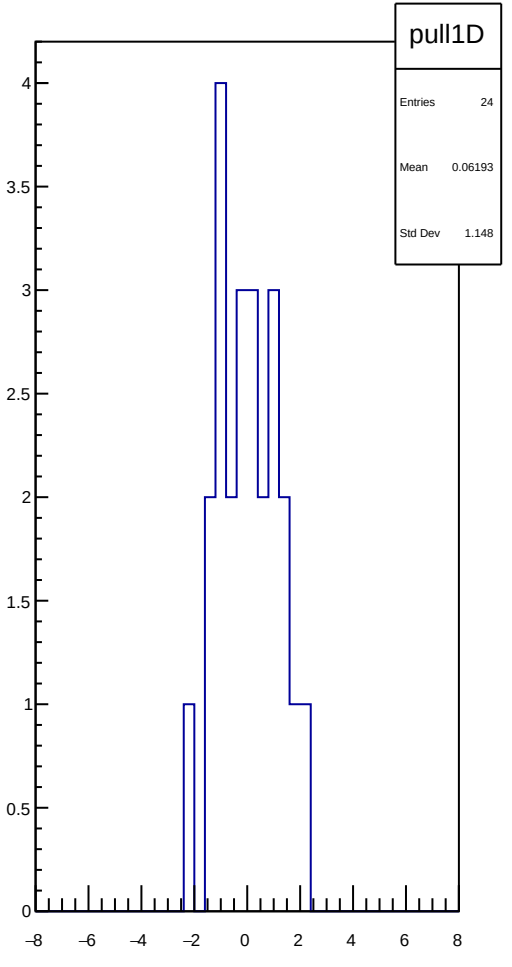
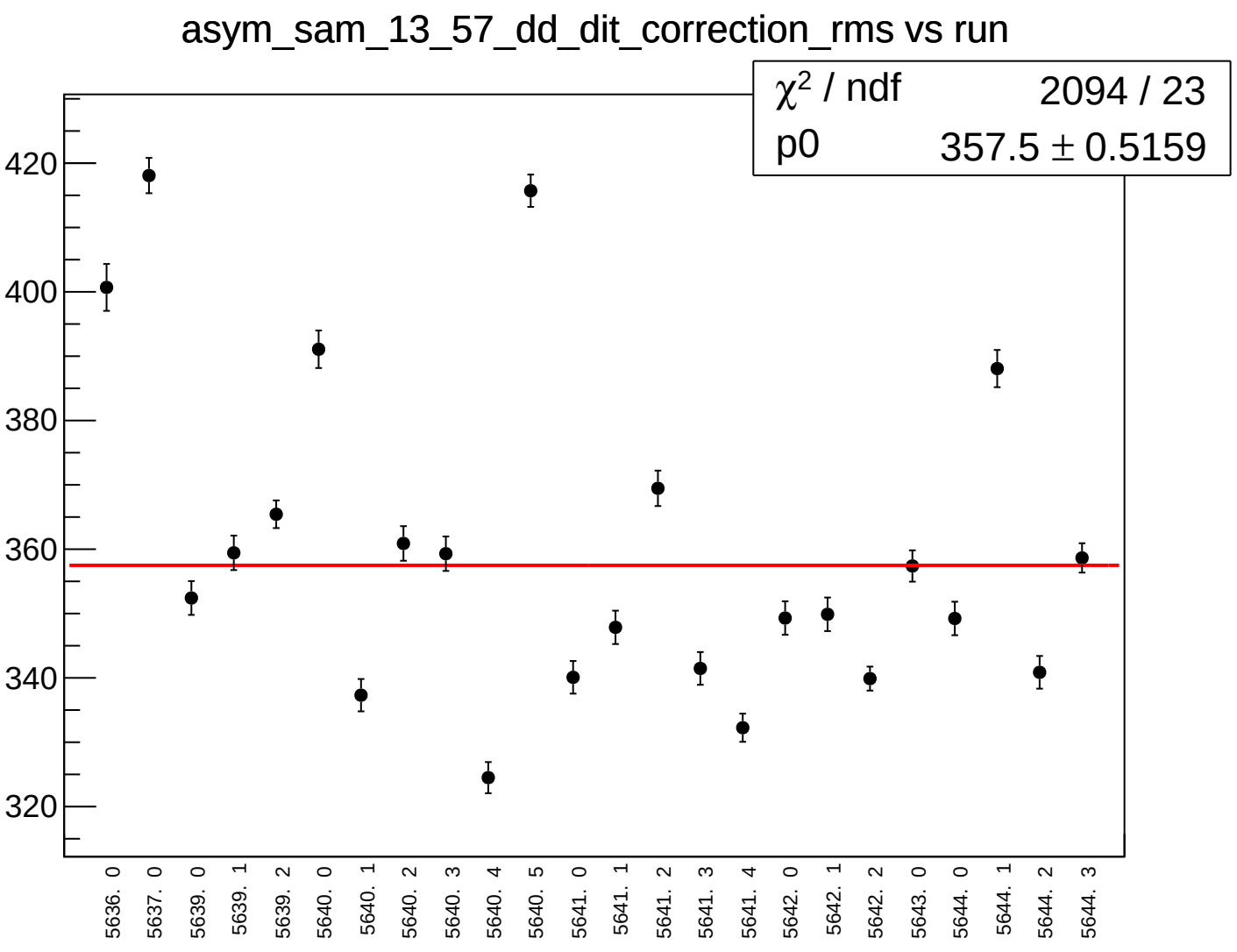
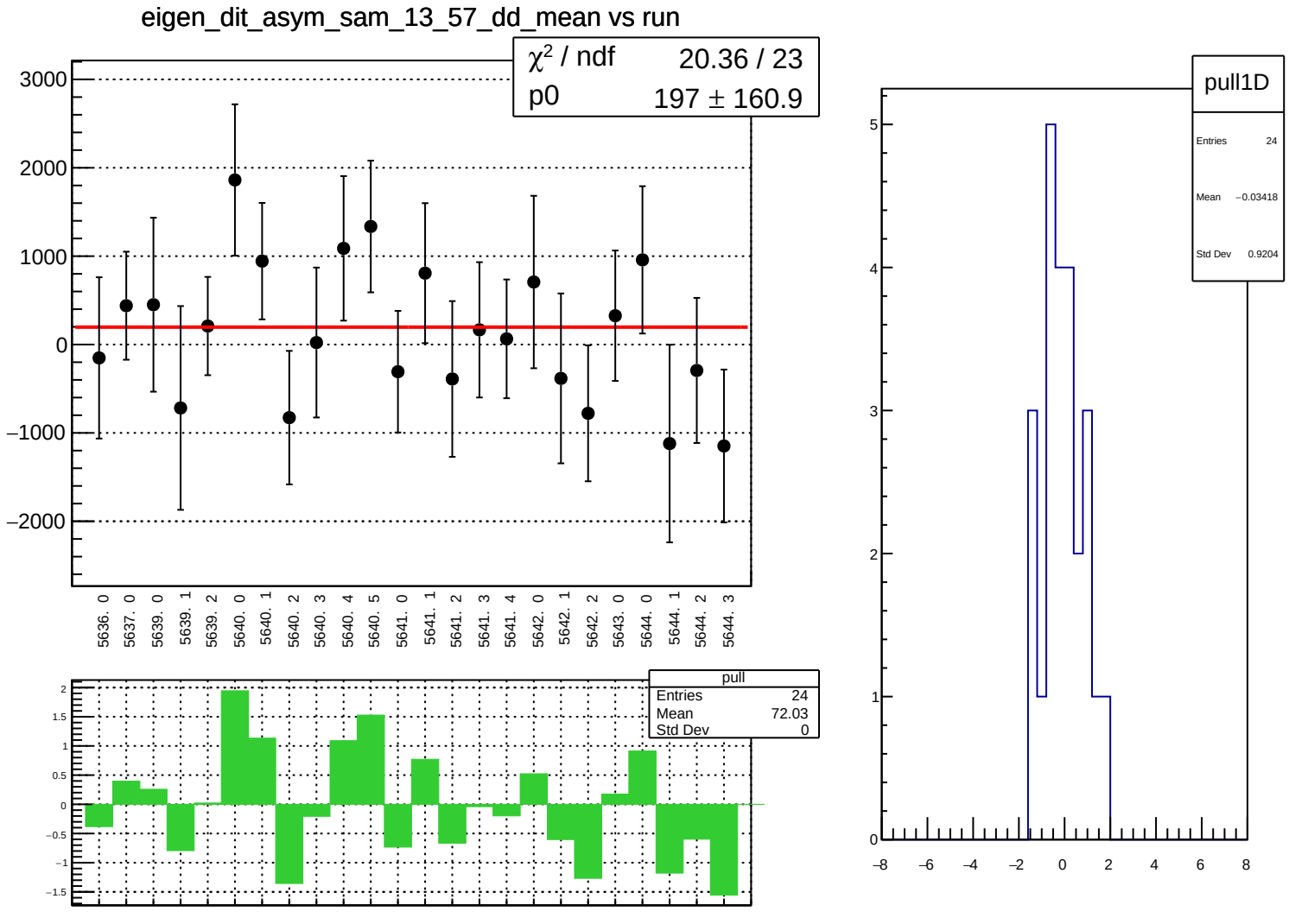
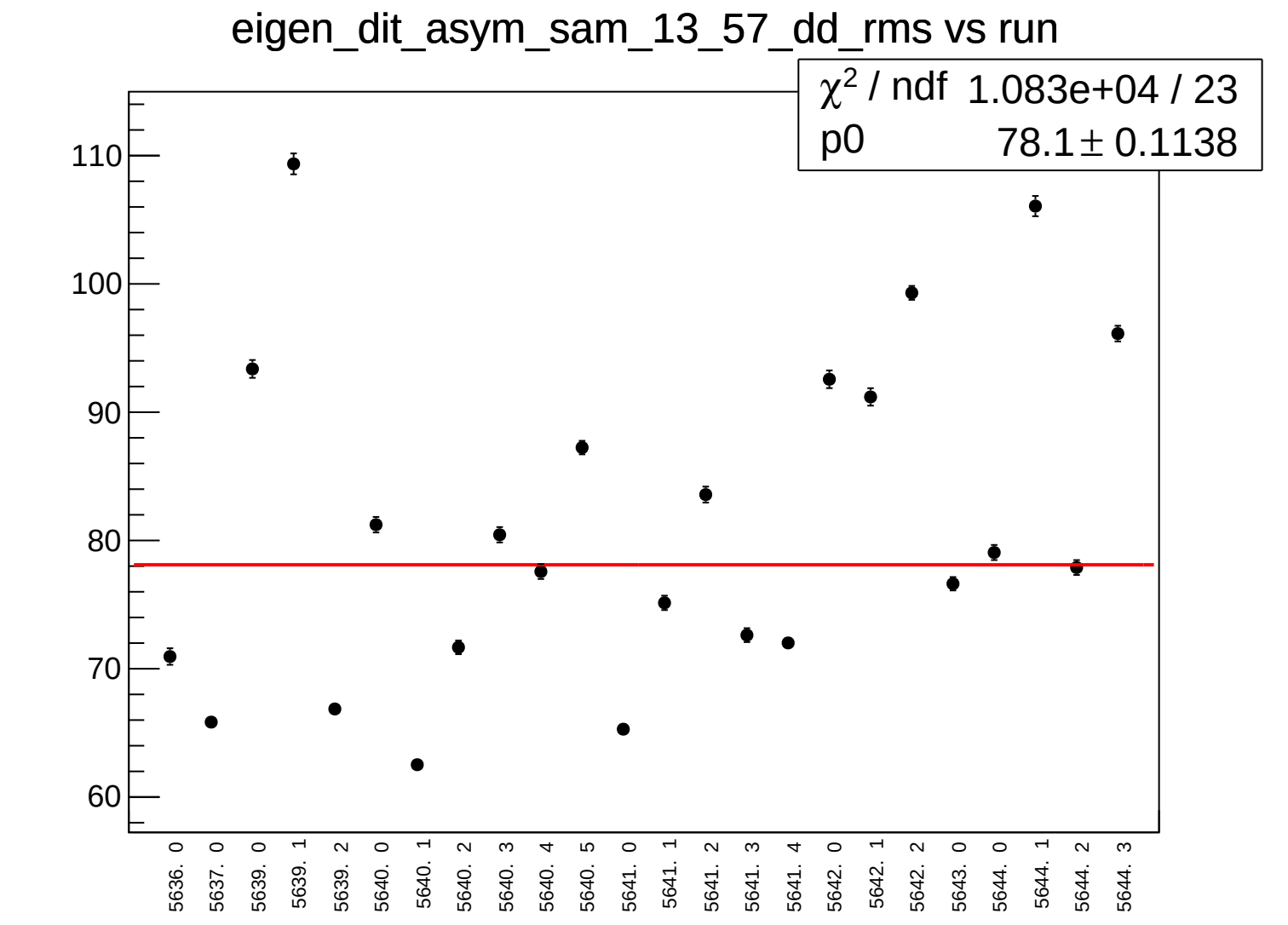
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

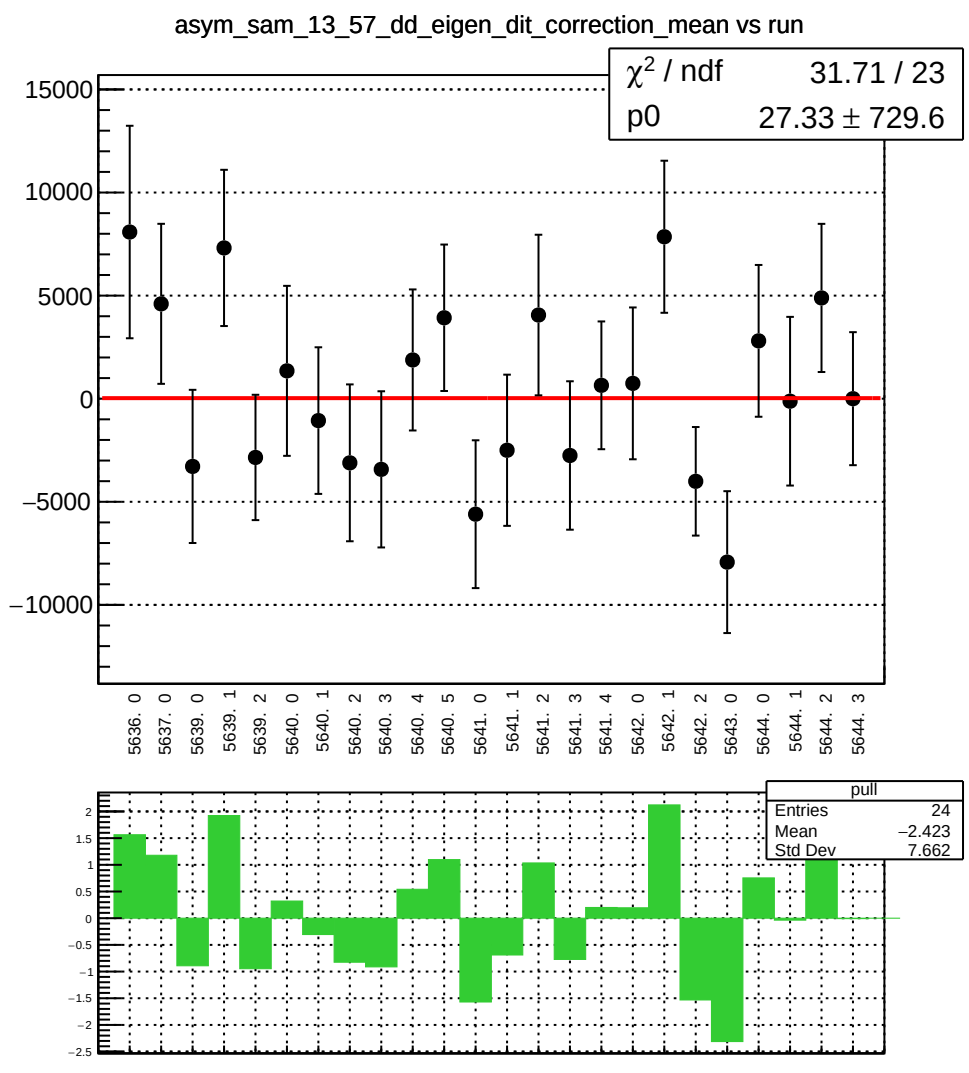

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 31.71 / 23
p0 27.33 ± 729.6
15000
10000
5000
0
−5000
−10000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −2.423
Std Dev 7.662
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

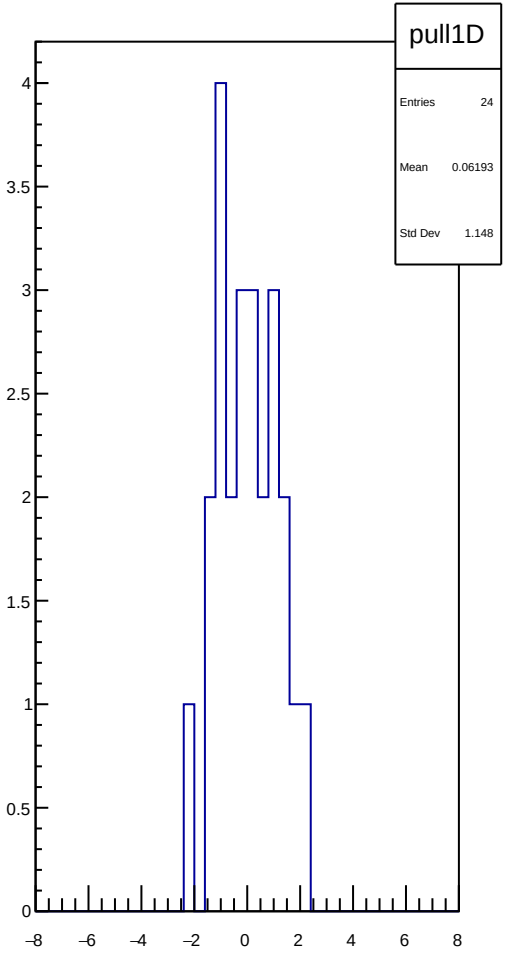

pull1D
Entries 24
Mean 0.06193
Std Dev 1.148
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

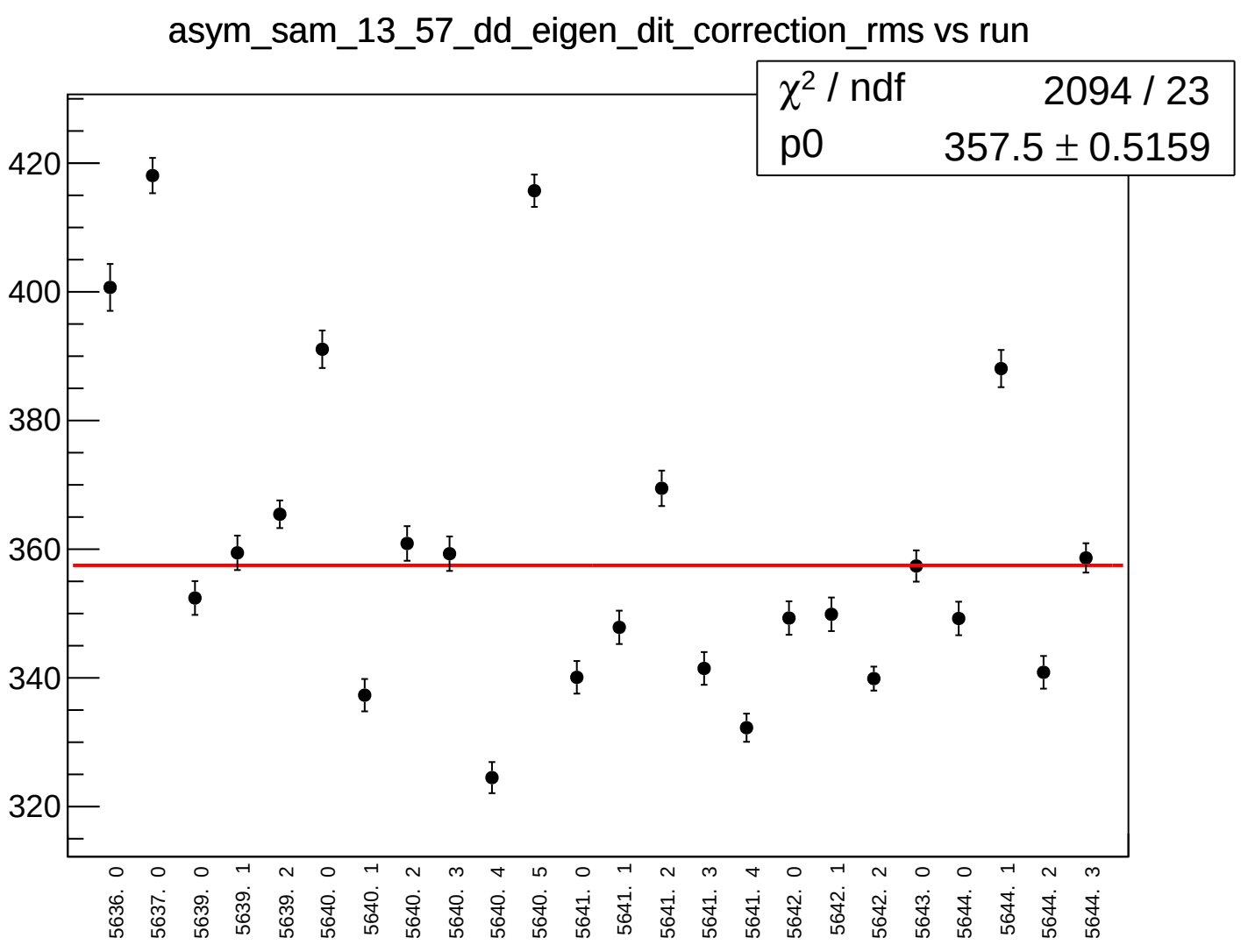

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 2094 / 23
p0 357.5 ± 0.5159
420
400
380
360
340
320
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

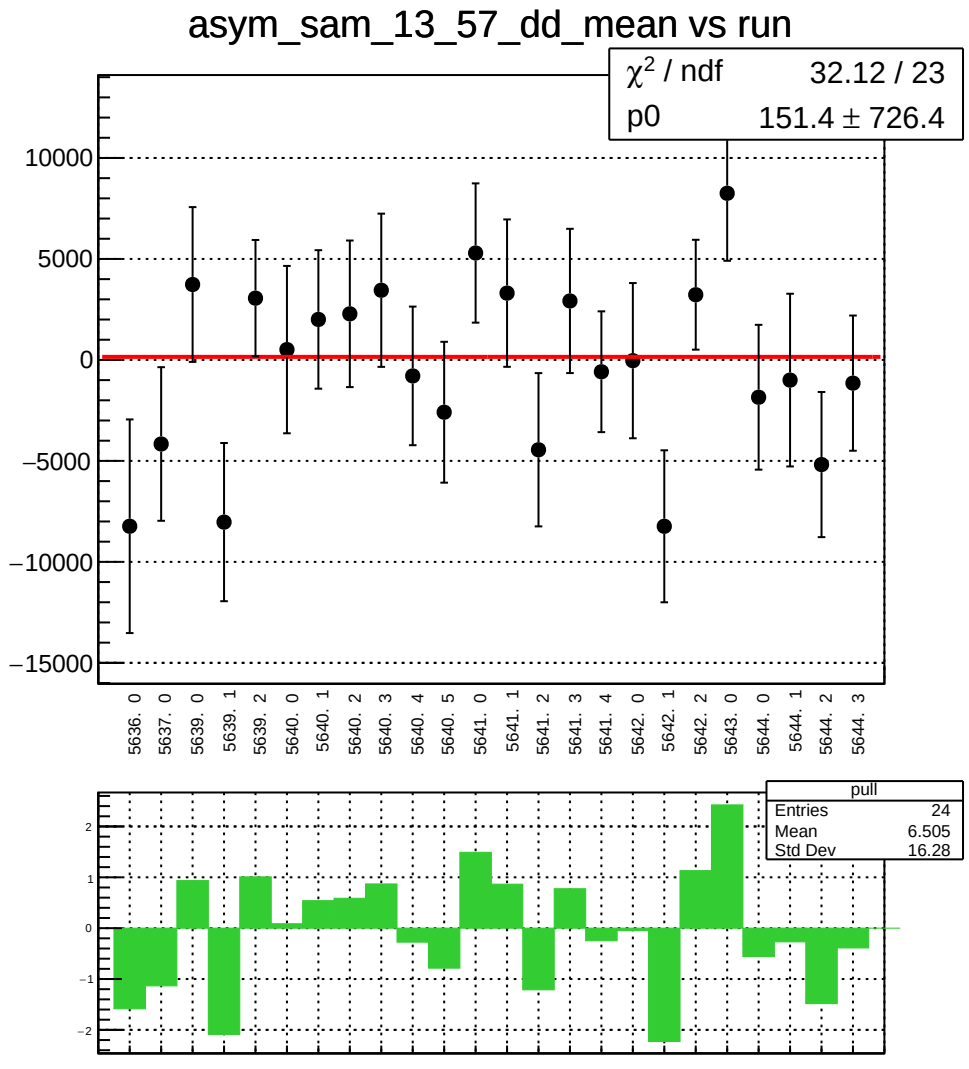

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 20.36 / 23
p0 197 ± 160.9
3000
2000
1000
0
−1000
−2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 72.03
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.03418
Std Dev 0.9204
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

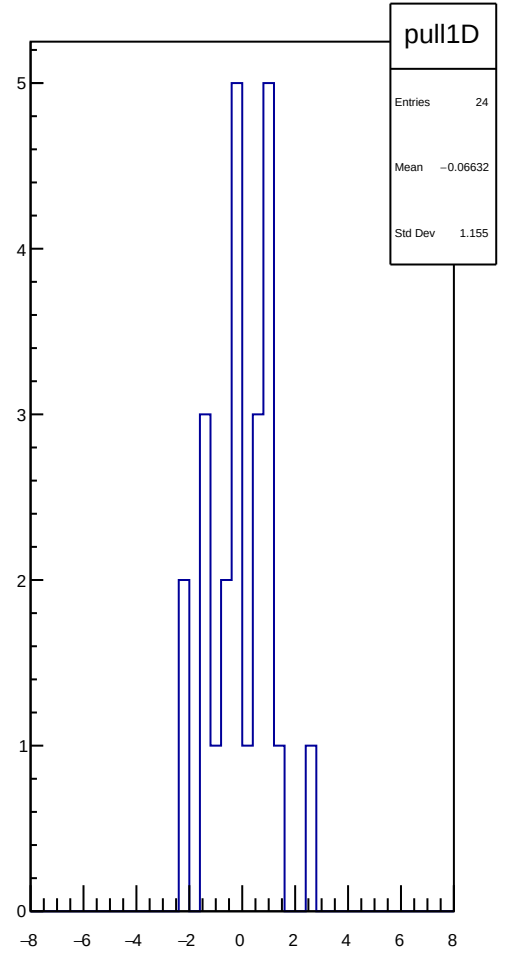

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.083e+04 / 23
p0 78.1 ± 0.1138
110
100
90
80
70
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

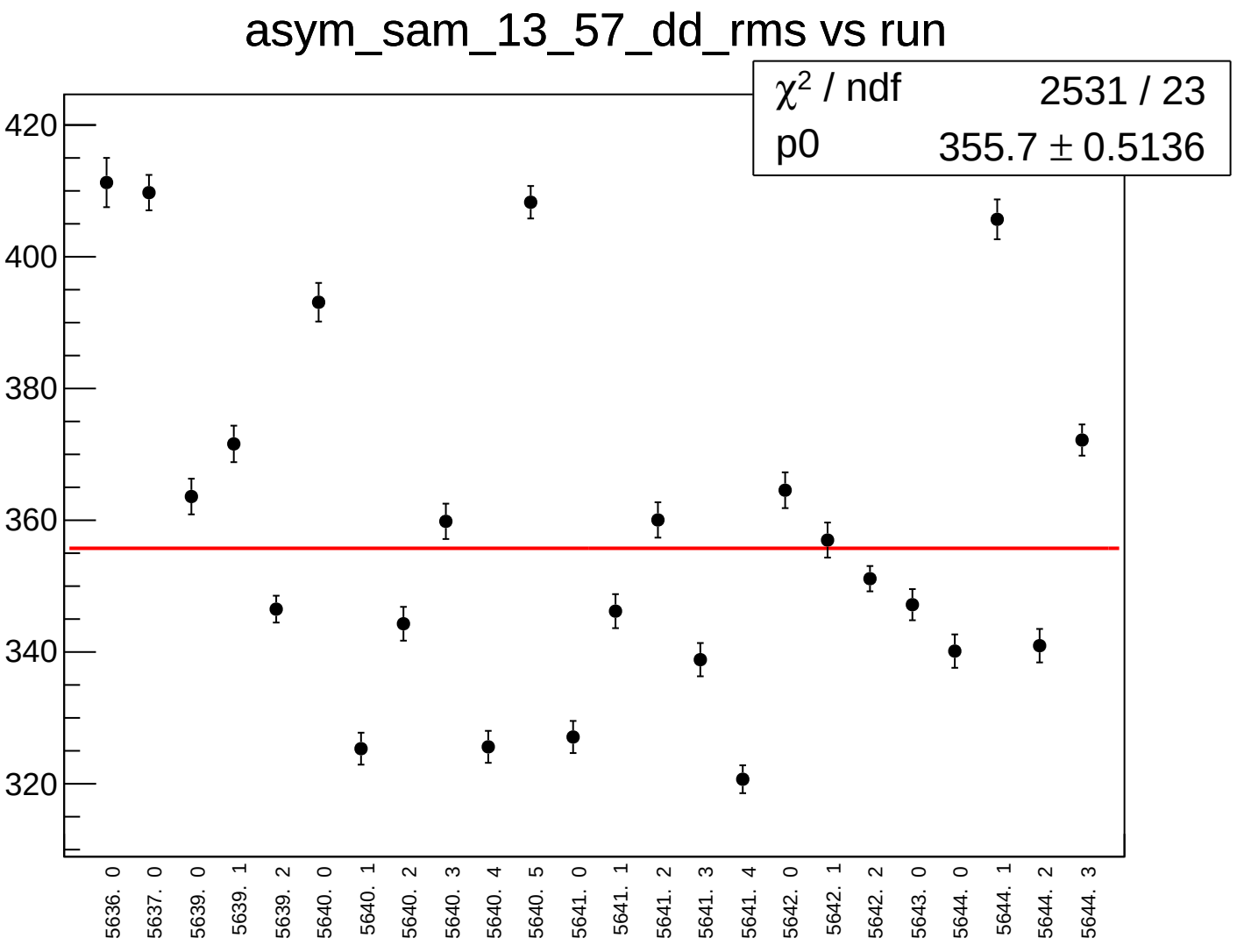

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 31.71 / 23
p0 27.33 ± 729.6
15000
10000
5000
0
−5000
−10000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −2.423
Std Dev 7.662
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

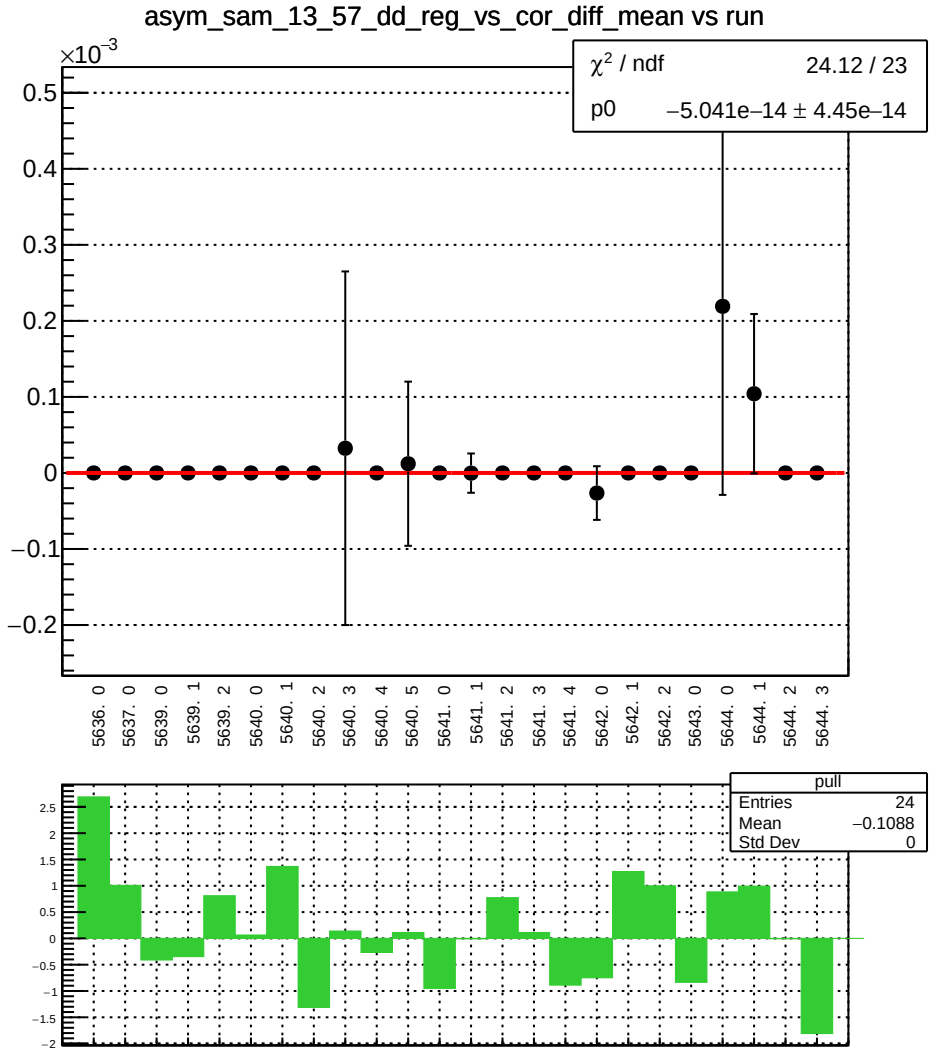

pull1D
Entries 24
Mean 0.06193
Std Dev 1.148
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

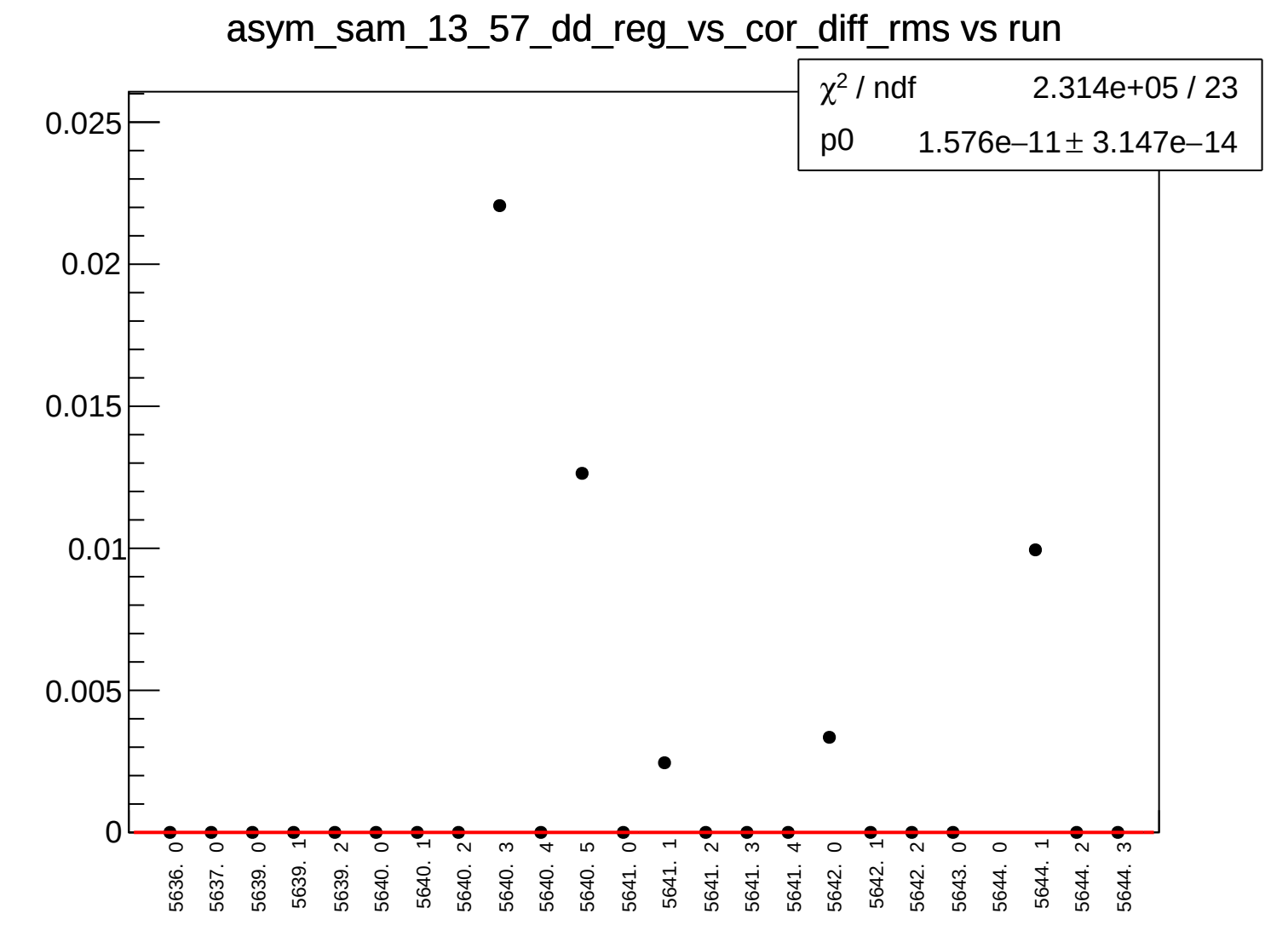

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 2094 / 23
p0 357.5 ± 0.5159
420
400
380
360
340
320
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

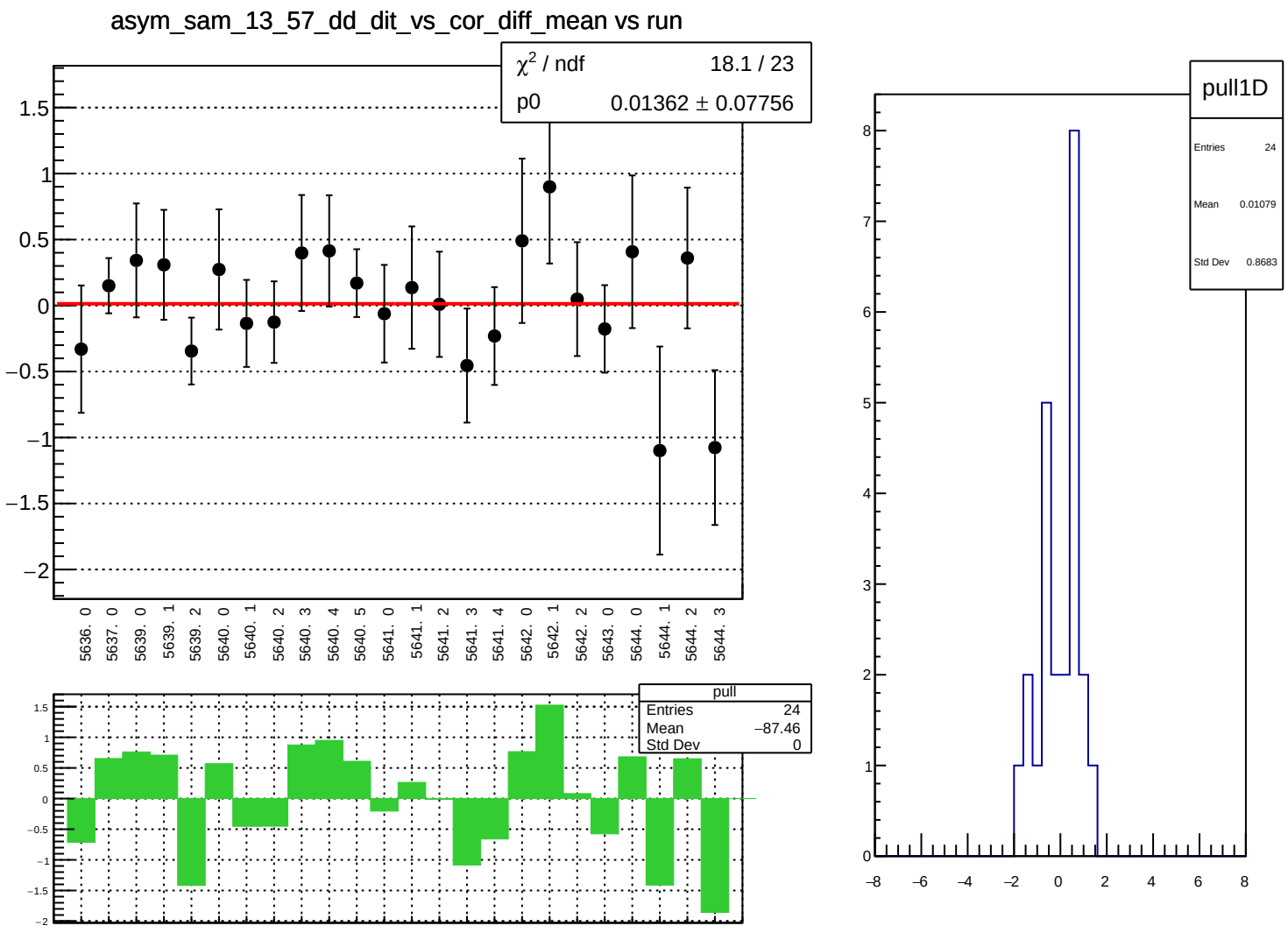

asym_sam_13_57_dd_mean vs run
χ² / ndf 32.12 / 23
p0 151.4 ± 726.4
10000
5000
0
−5000
−10000
−15000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 6.505
Std Dev 16.28
2
1
0
−1
−2

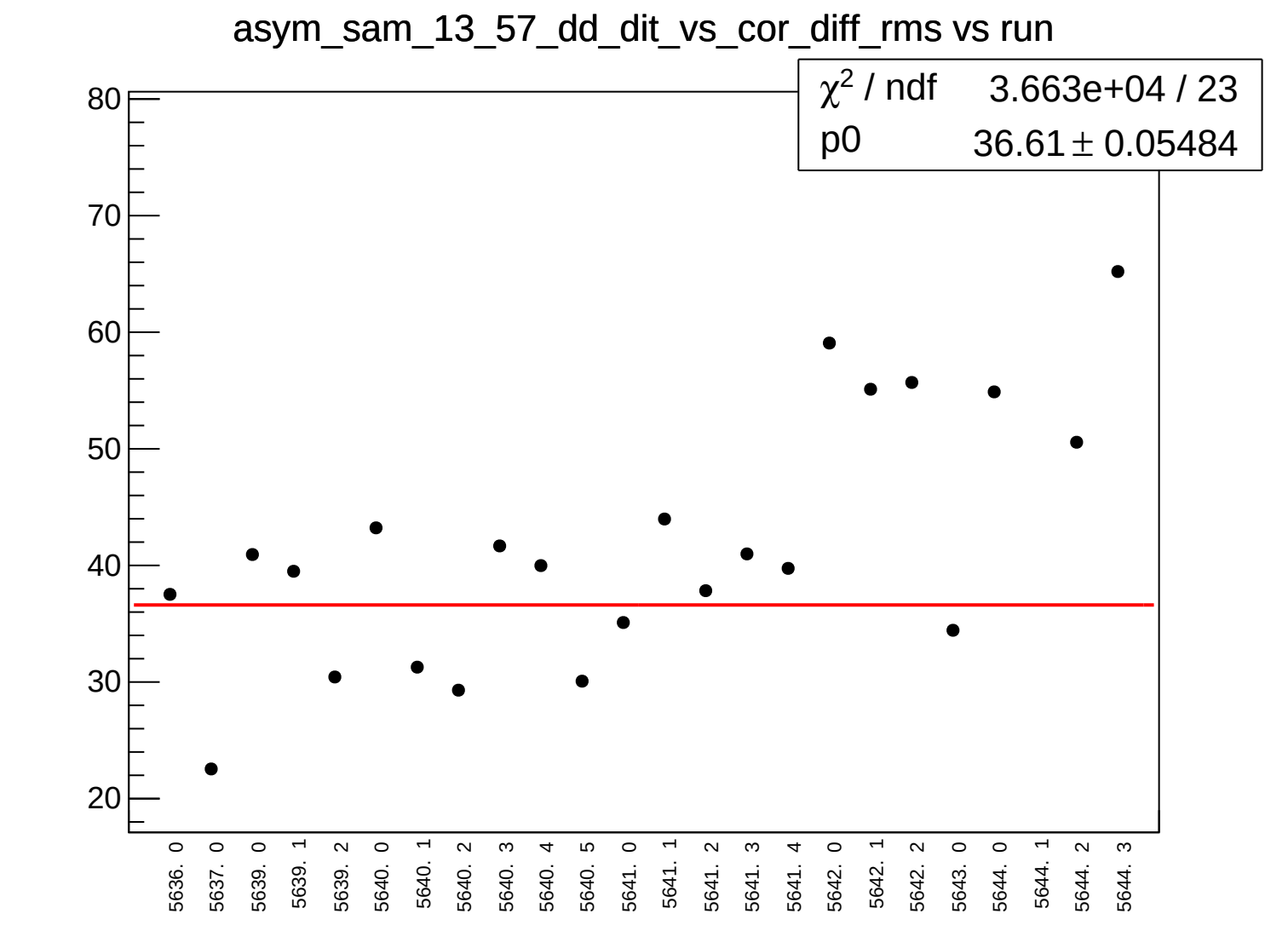

pull1D
Entries 24
Mean −0.06632
Std Dev 1.155
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

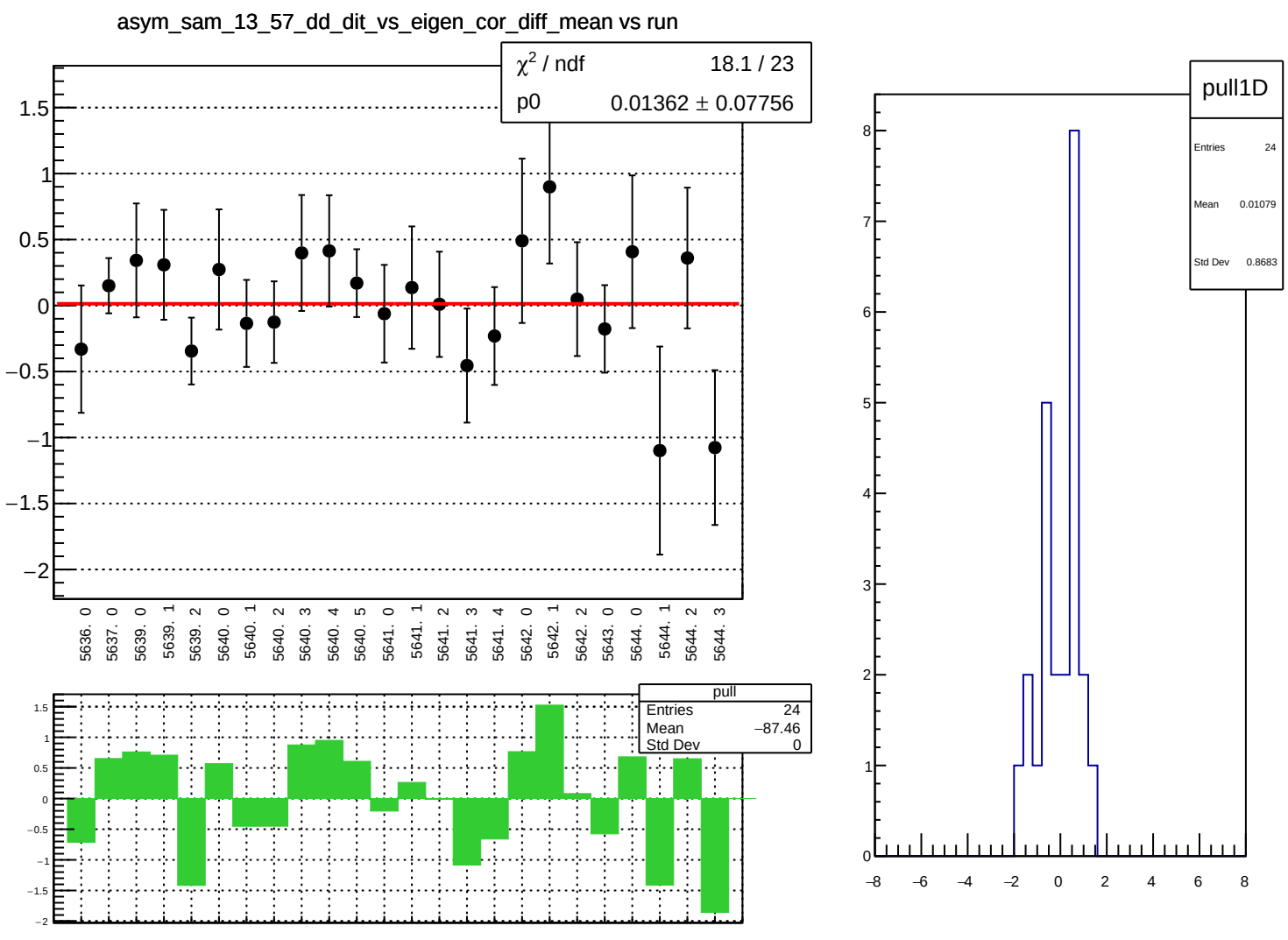

asym_sam_13_57_dd_rms vs run
χ² / ndf 2531 / 23
p0 355.7 ± 0.5136
420
400
380
360
340
320
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

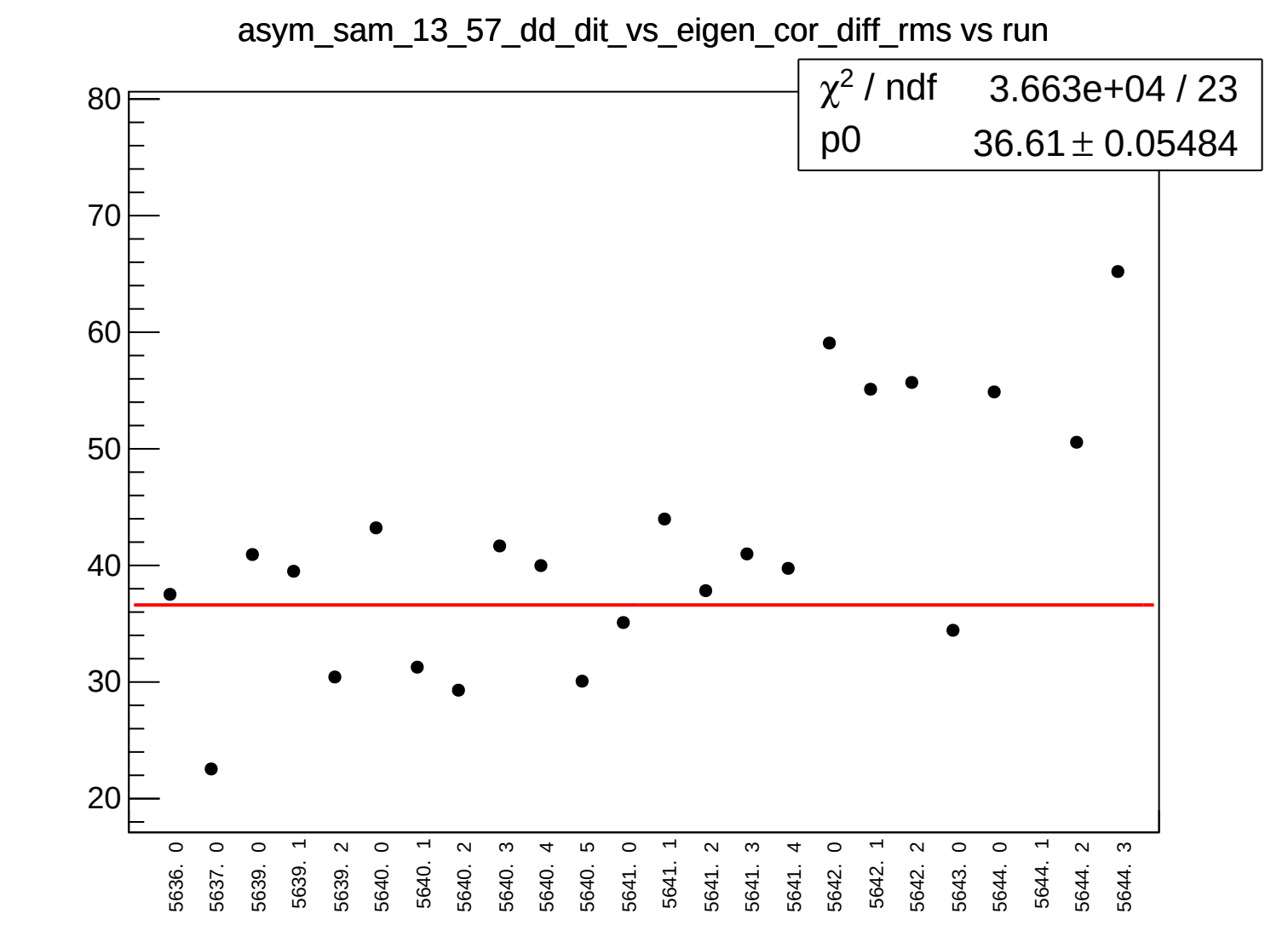

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 24.12 / 23
p0 −5.041e−14 ± 4.45e−14
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −0.1088
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.1516
Std Dev 0.991
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.314e+05 / 23
p0 1.576e−11 ± 3.147e−14
0.025
0.02
0.015
0.01
0.005
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 18.1 / 23
p0 0.01362 ± 0.07756
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −87.46
Std Dev 0
pull1D
Entries 24
Mean 0.01079
Std Dev 0.8683


asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.663e+04 / 23
p0 36.61 ± 0.05484
80
70
60
50
40
30
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 18.1 / 23
p0 0.01362 ± 0.07756
1.5
1
0.5
0
−0.5
−1
−1.5
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −87.46
Std Dev 0
pull1D
Entries 24
Mean 0.01079
Std Dev 0.8683
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.663e+04 / 23
p0 36.61 ± 0.05484
80
70
60
50
40
30
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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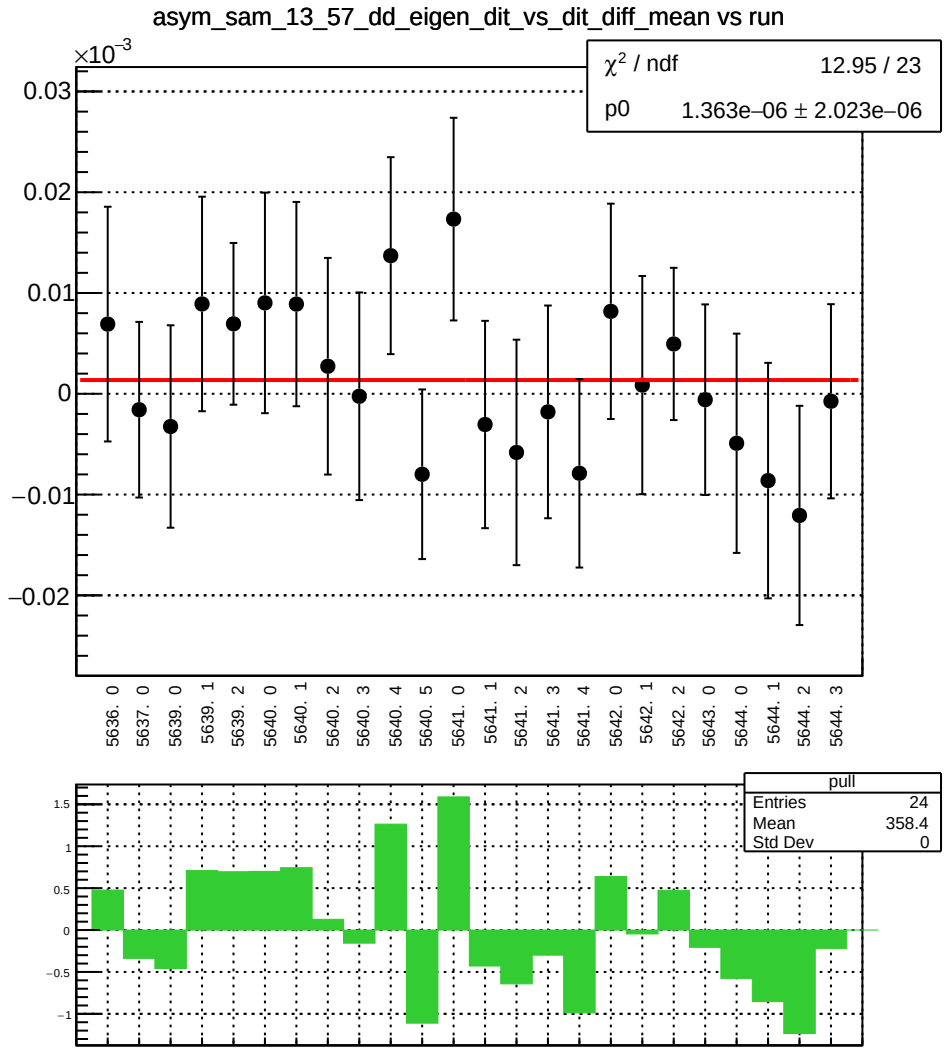
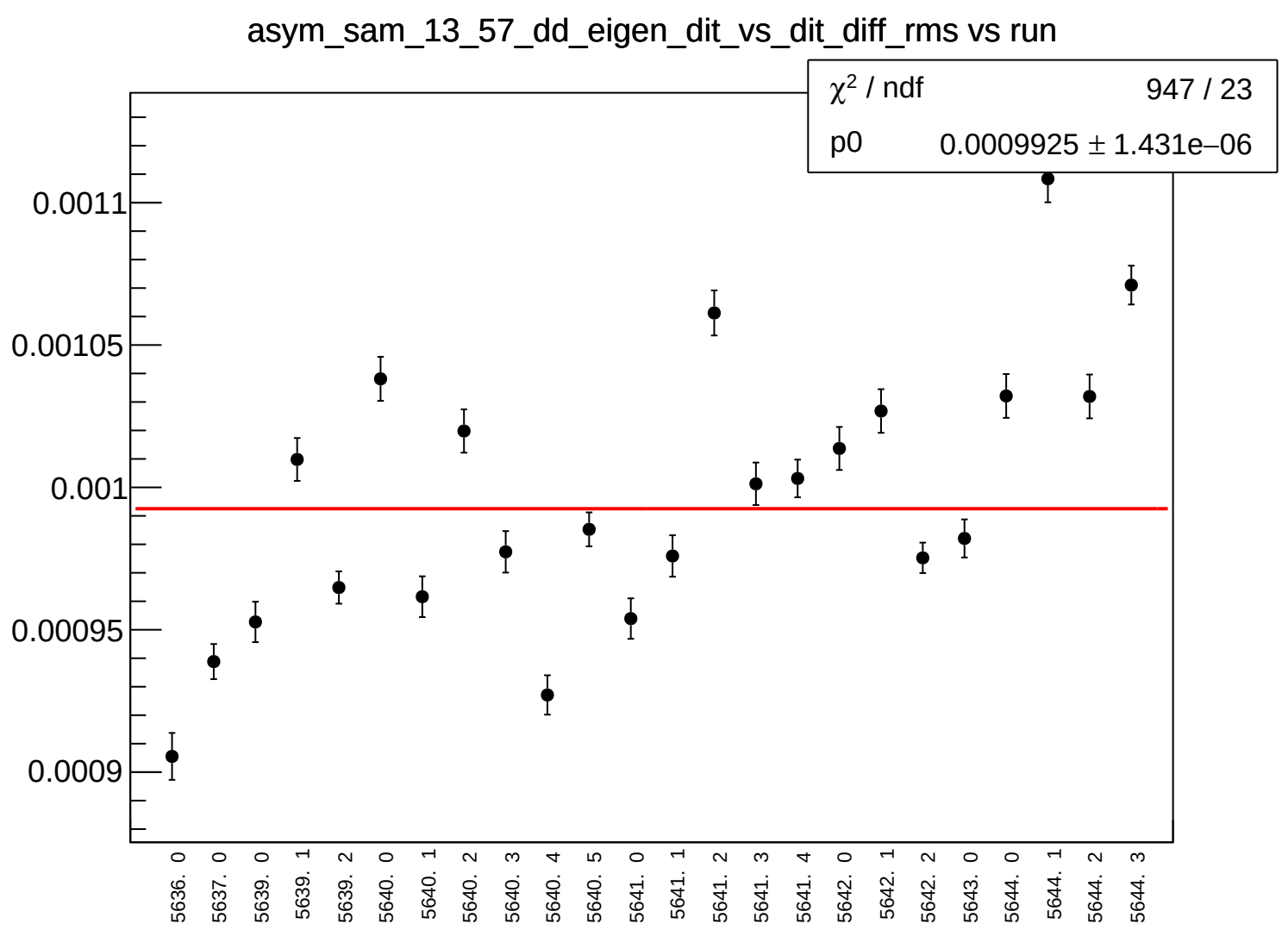
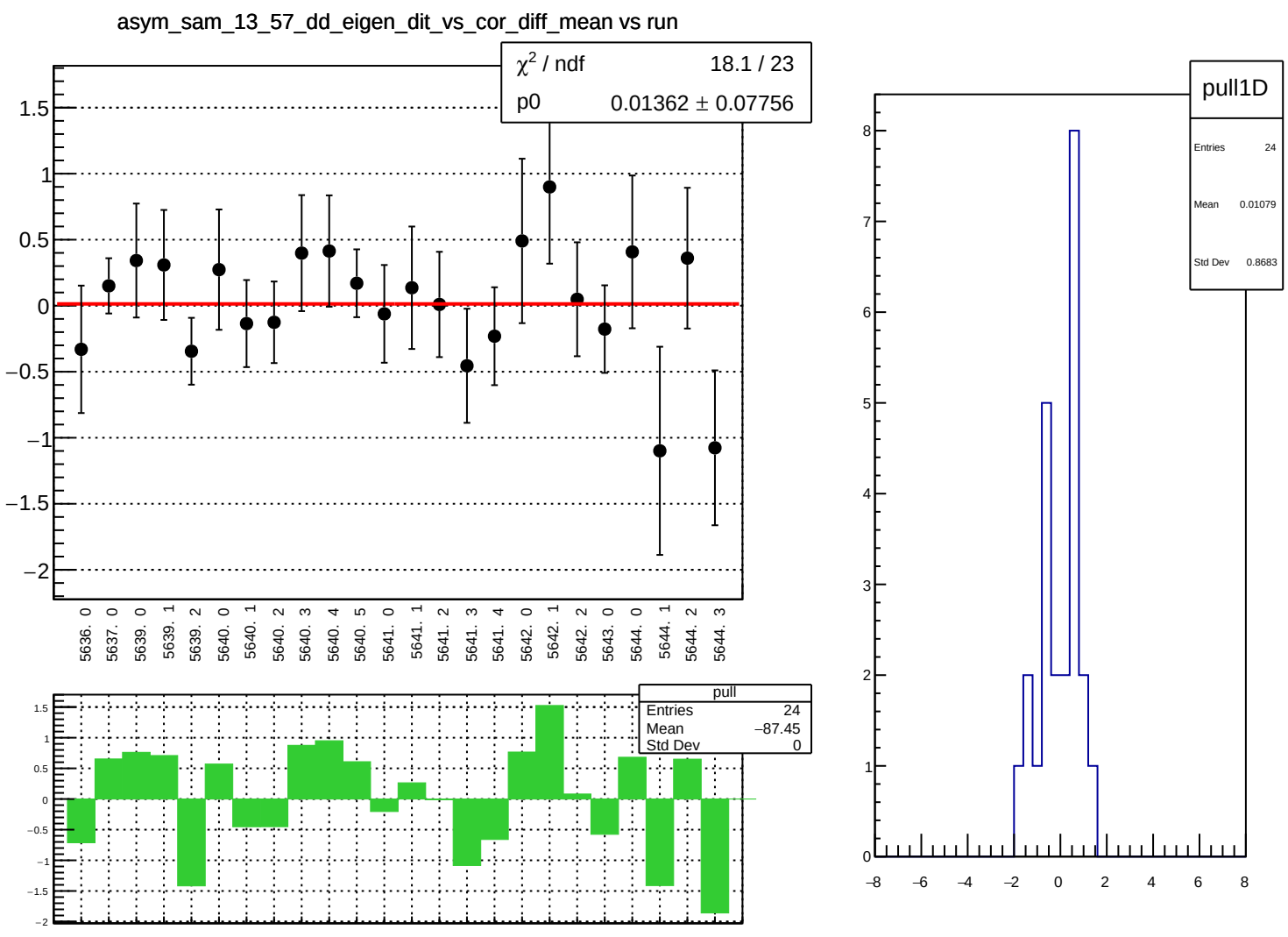
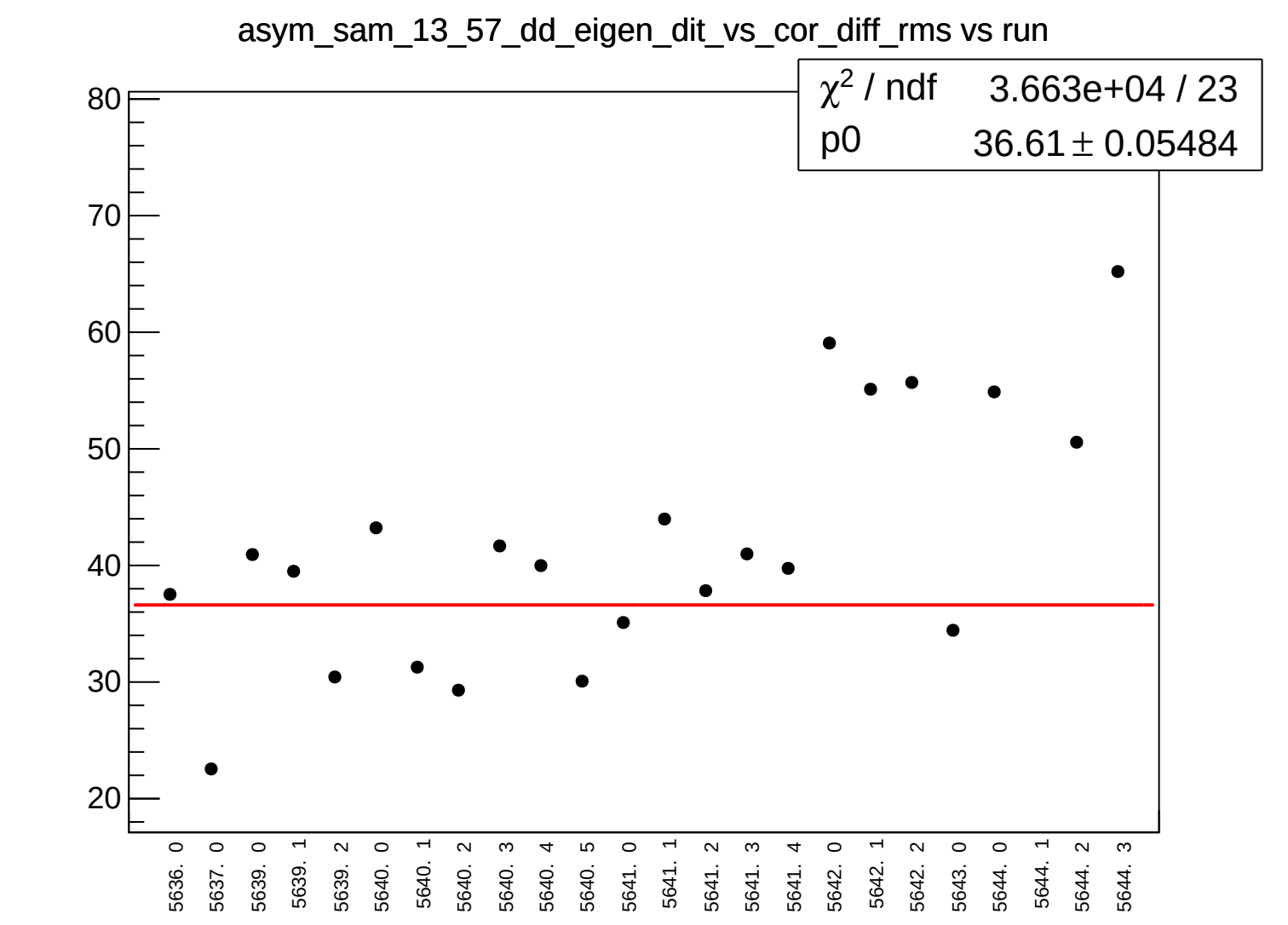
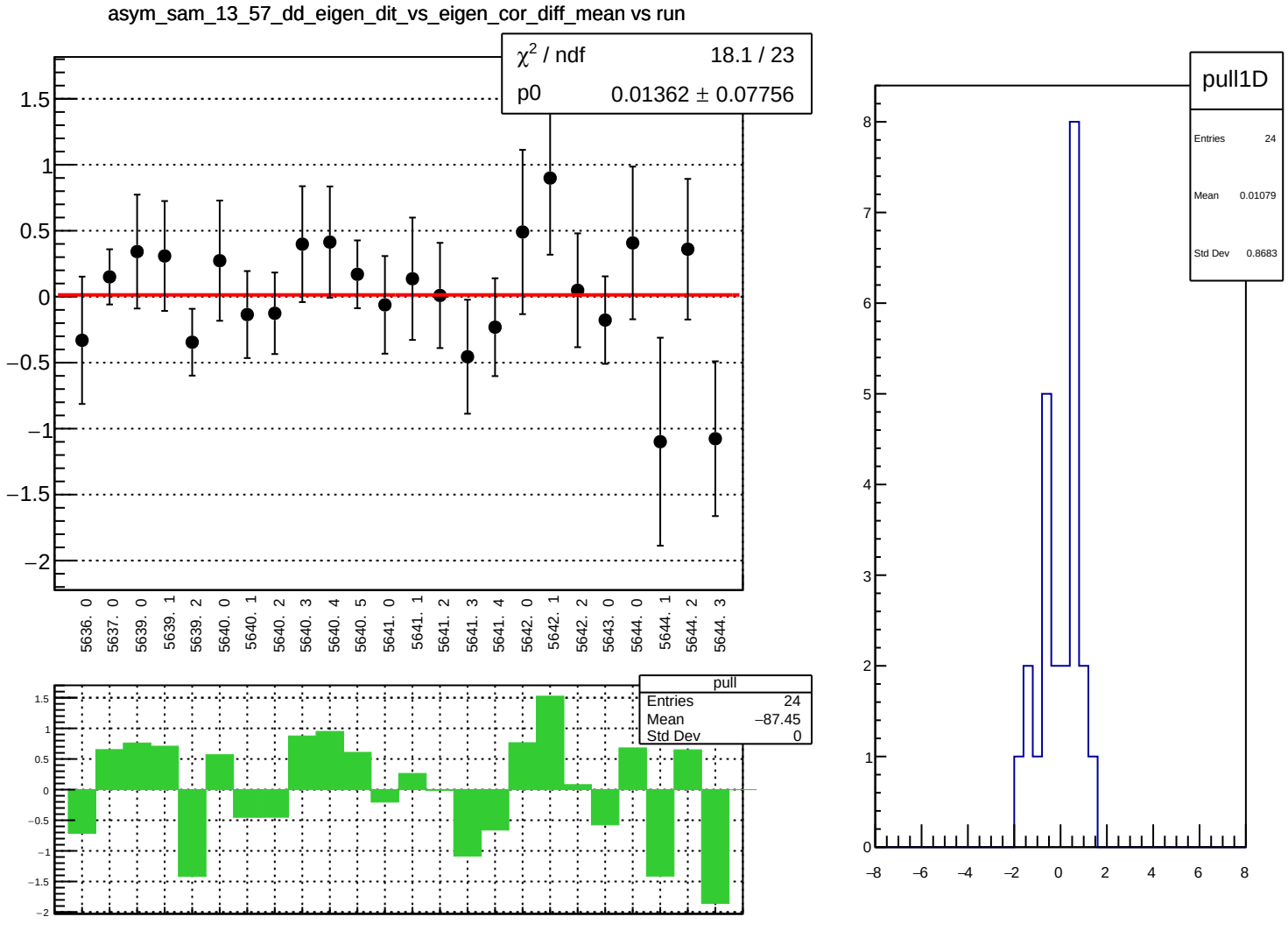
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

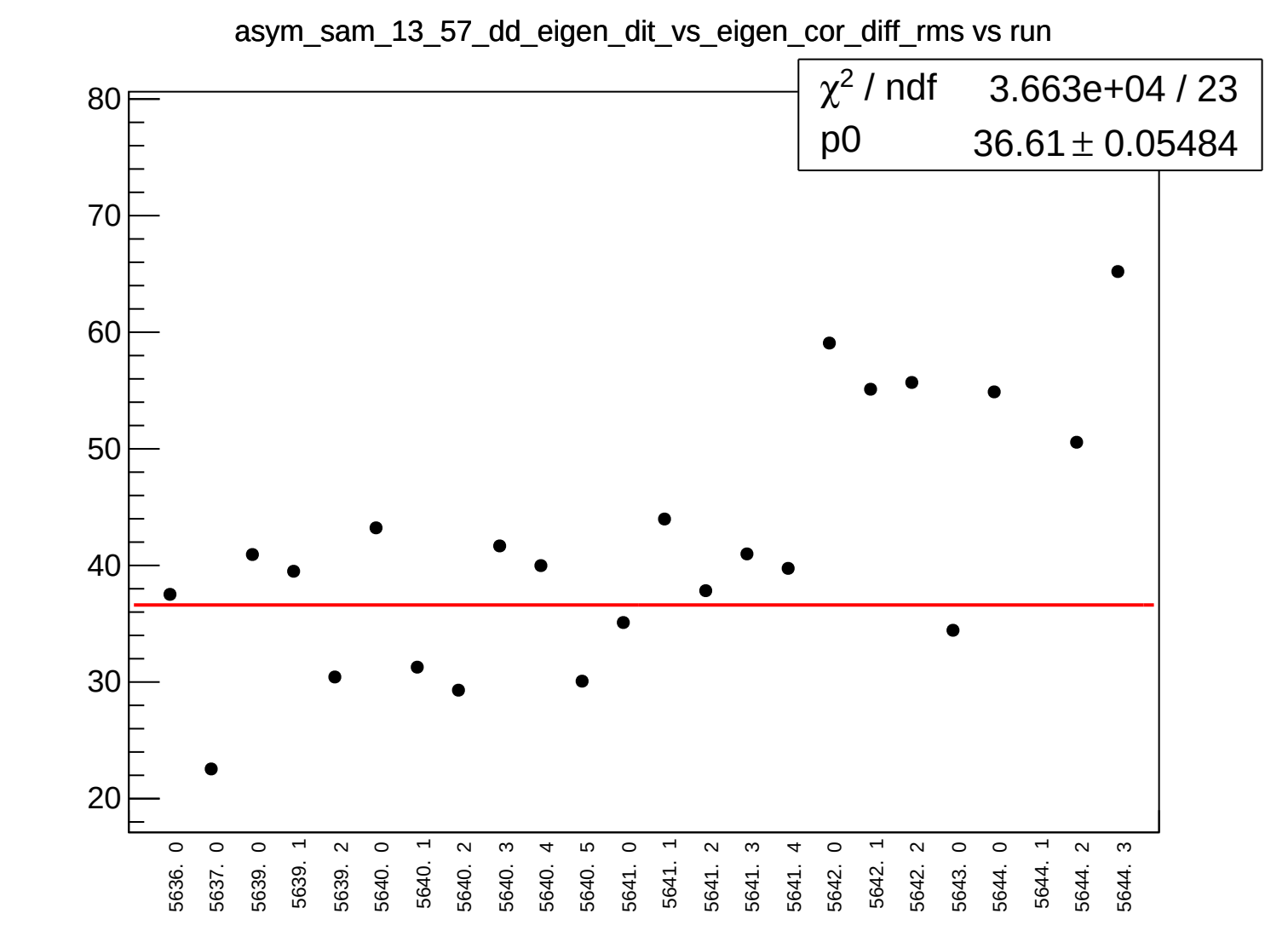

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 12.95 / 23
p0 1.363e−06 ± 2.023e−06
0.03
0.02
0.01
0
−0.01
−0.02
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 358.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.005953
Std Dev 0.7345
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 947 / 23
p0 0.0009925 ± 1.431e−06
0.0011
0.00105
0.001
0.00095
0.0009
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 18.1 / 23
p0 0.01362 ± 0.07756
1.5
1
0.5
0
−0.5
−1
−1.5
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −87.45
Std Dev 0
pull1D
Entries 24
Mean 0.01079
Std Dev 0.8683
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.663e+04 / 23
p0 36.61 ± 0.05484
80
70
60
50
40
30
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 18.1 / 23
p0 0.01362 ± 0.07756
1.5
1
0.5
0
−0.5
−1
−1.5
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −87.45
Std Dev 0
pull1D
Entries 24
Mean 0.01079
Std Dev 0.8683
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.663e+04 / 23
p0 36.61 ± 0.05484
80
70
60
50
40
30
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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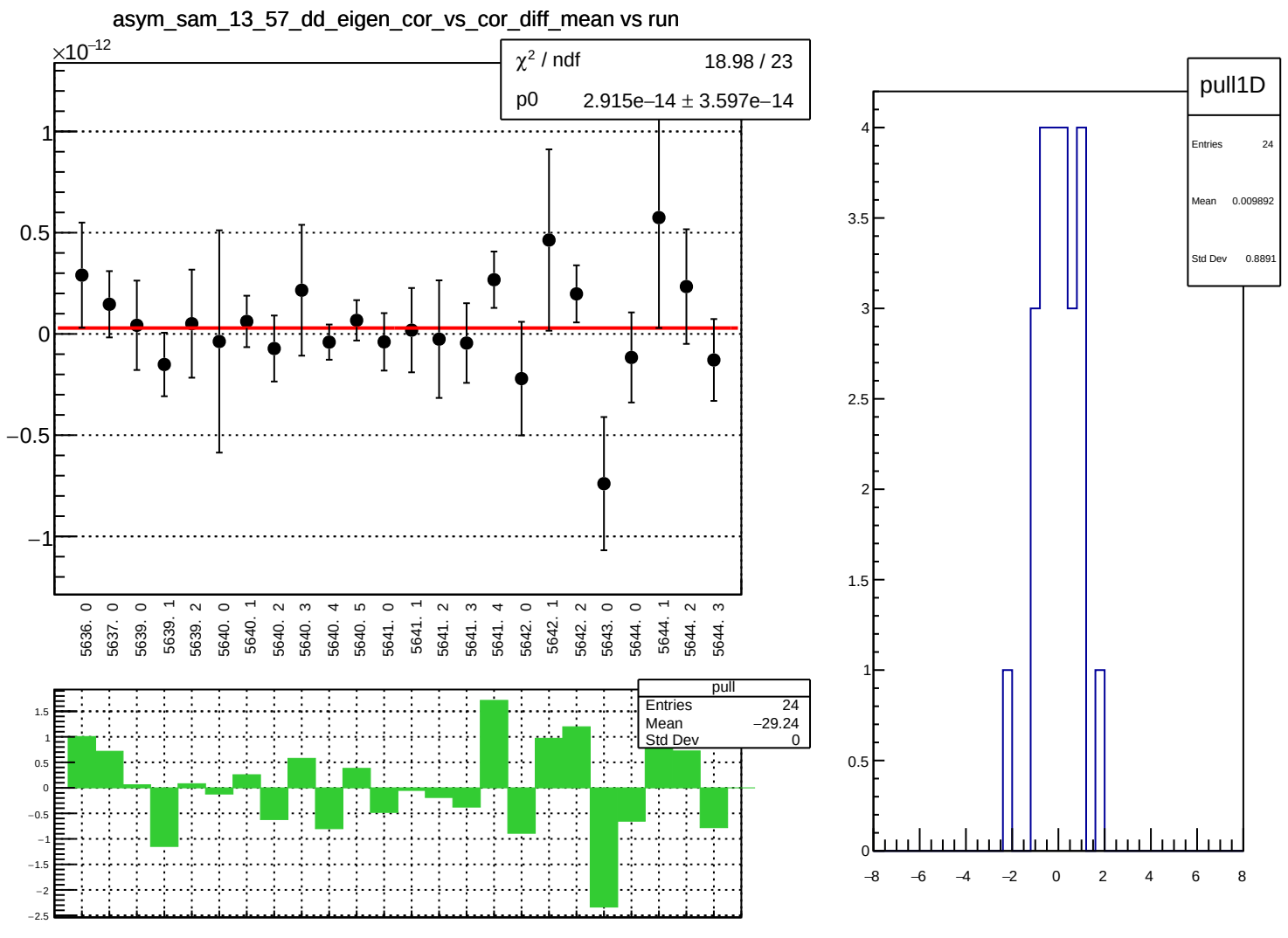
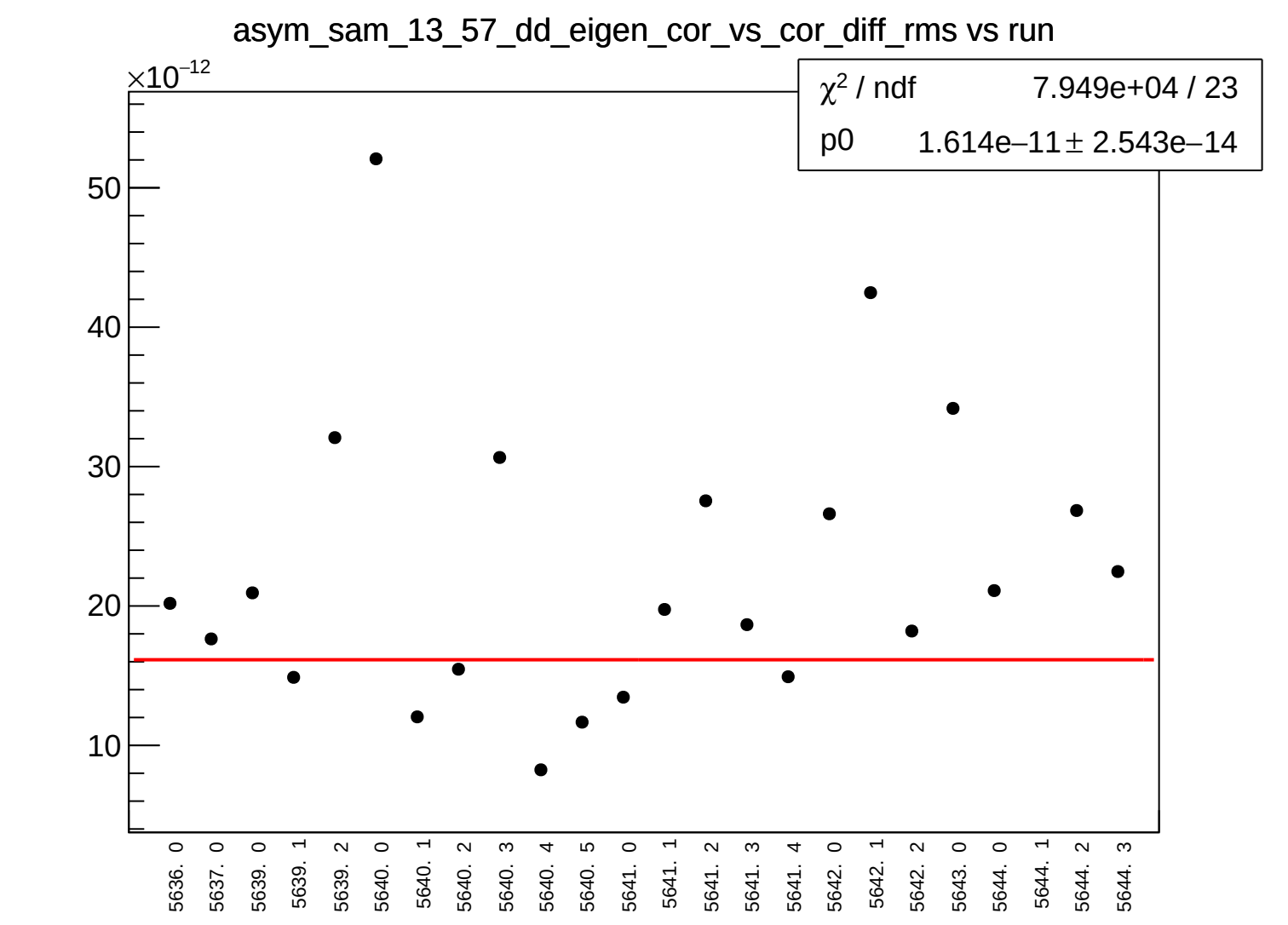
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 18.98 / 23
p0 2.915e−14 ± 3.597e−14
1
0.5
0
−0.5
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −29.24
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean 0.009892
Std Dev 0.8891
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.949e+04 / 23
p0 1.614e−11 ± 2.543e−14
50
40
30
20
10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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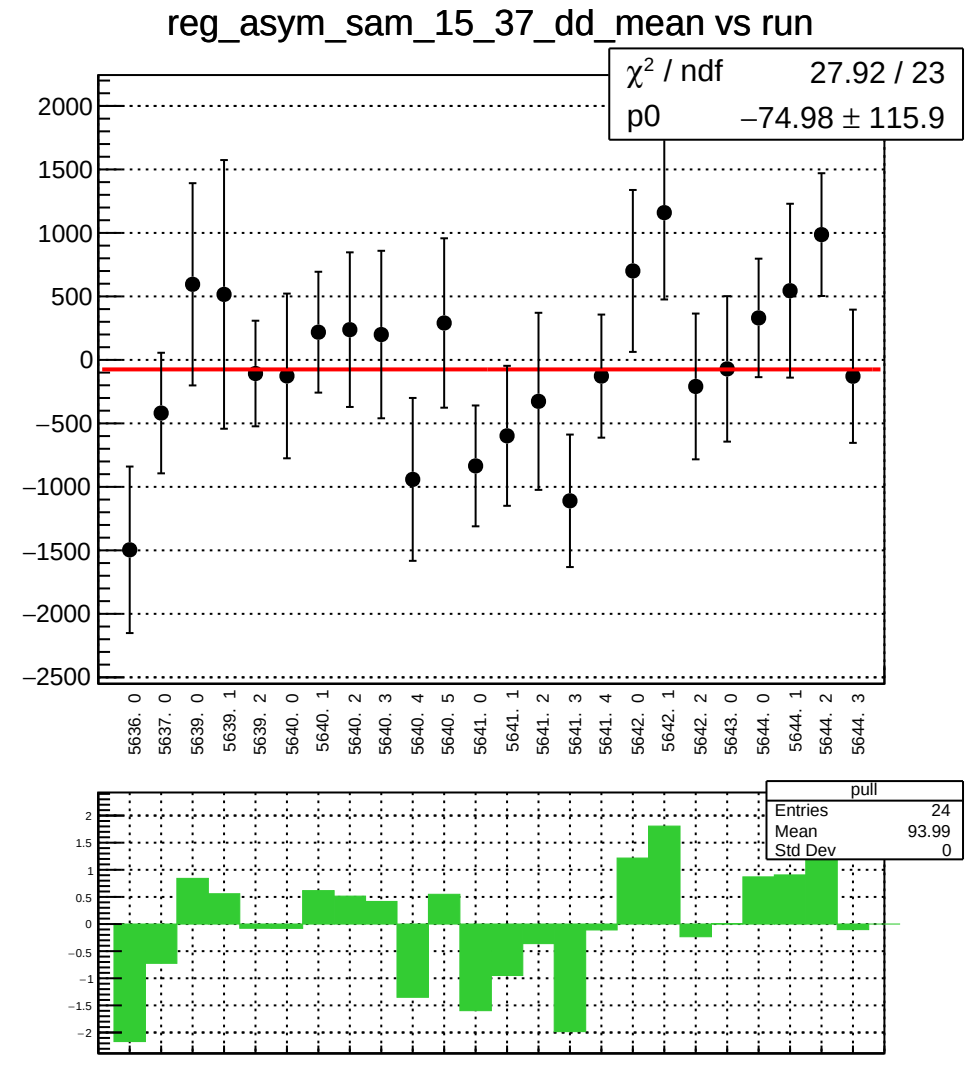
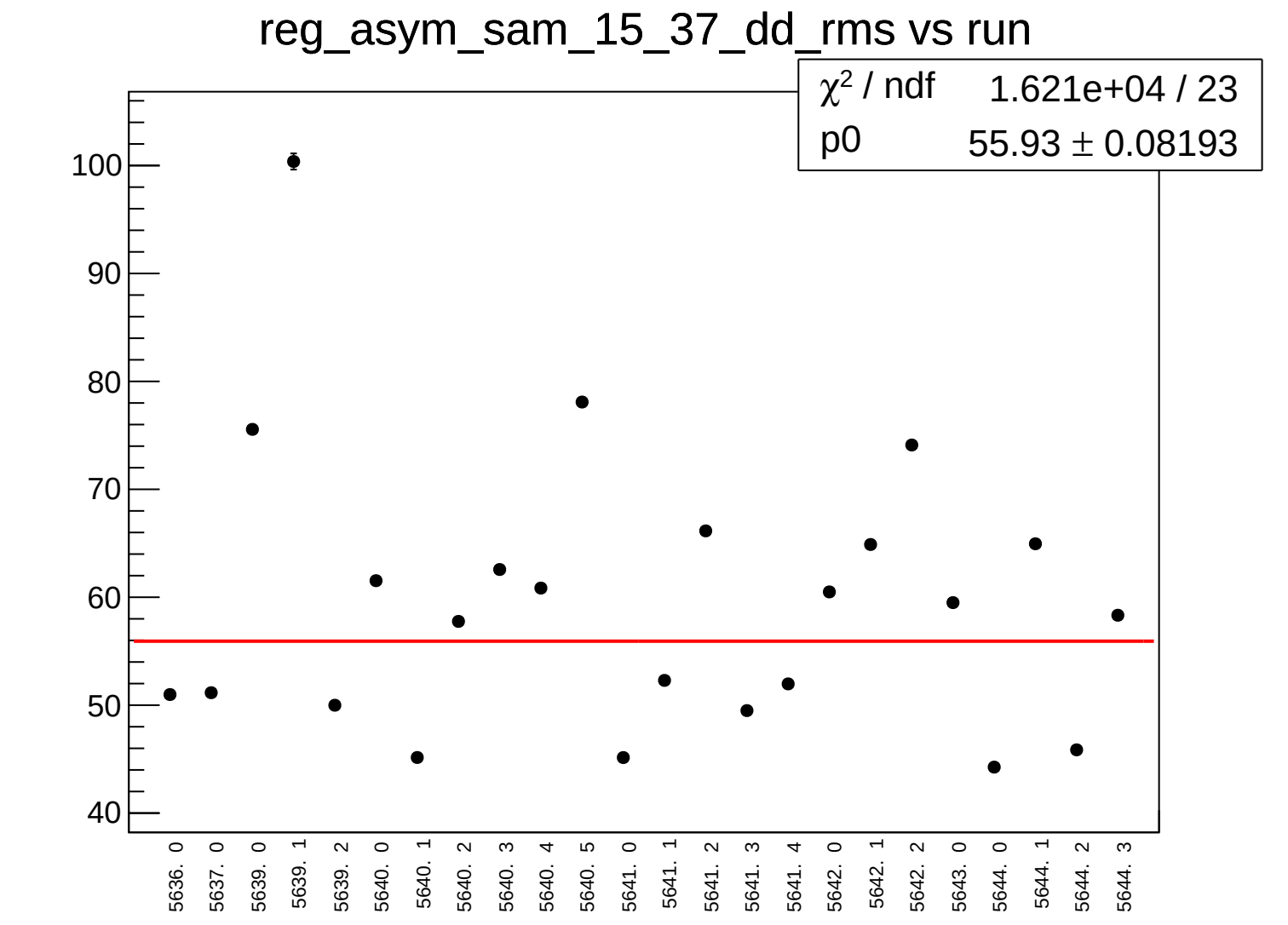
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 27.92 / 23
p0 −74.98 ± 115.9
2000
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 93.99
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.03177
Std Dev 1.078
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.621e+04 / 23
p0 55.93 ± 0.08193
100
90
80
70
60
50
40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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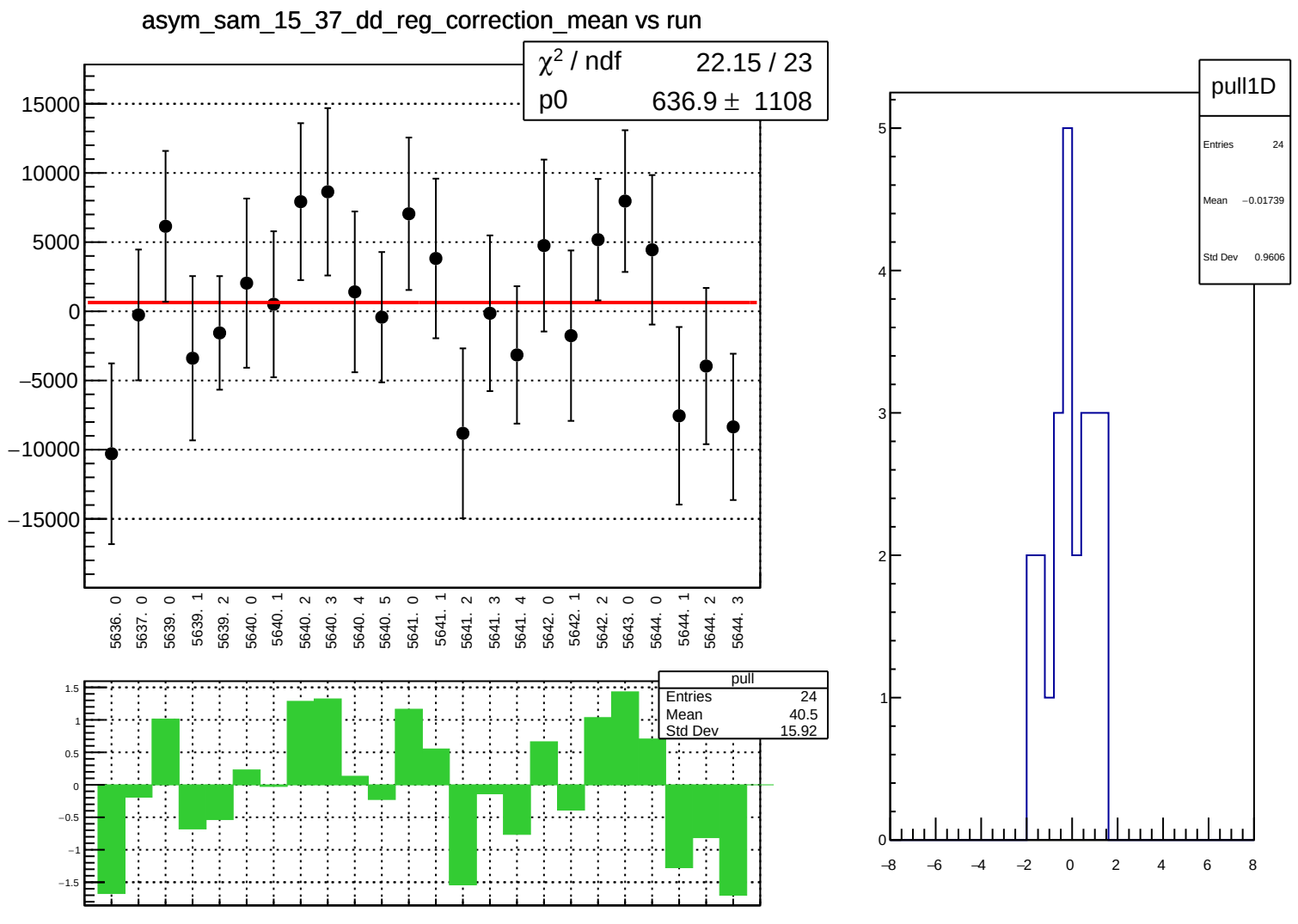
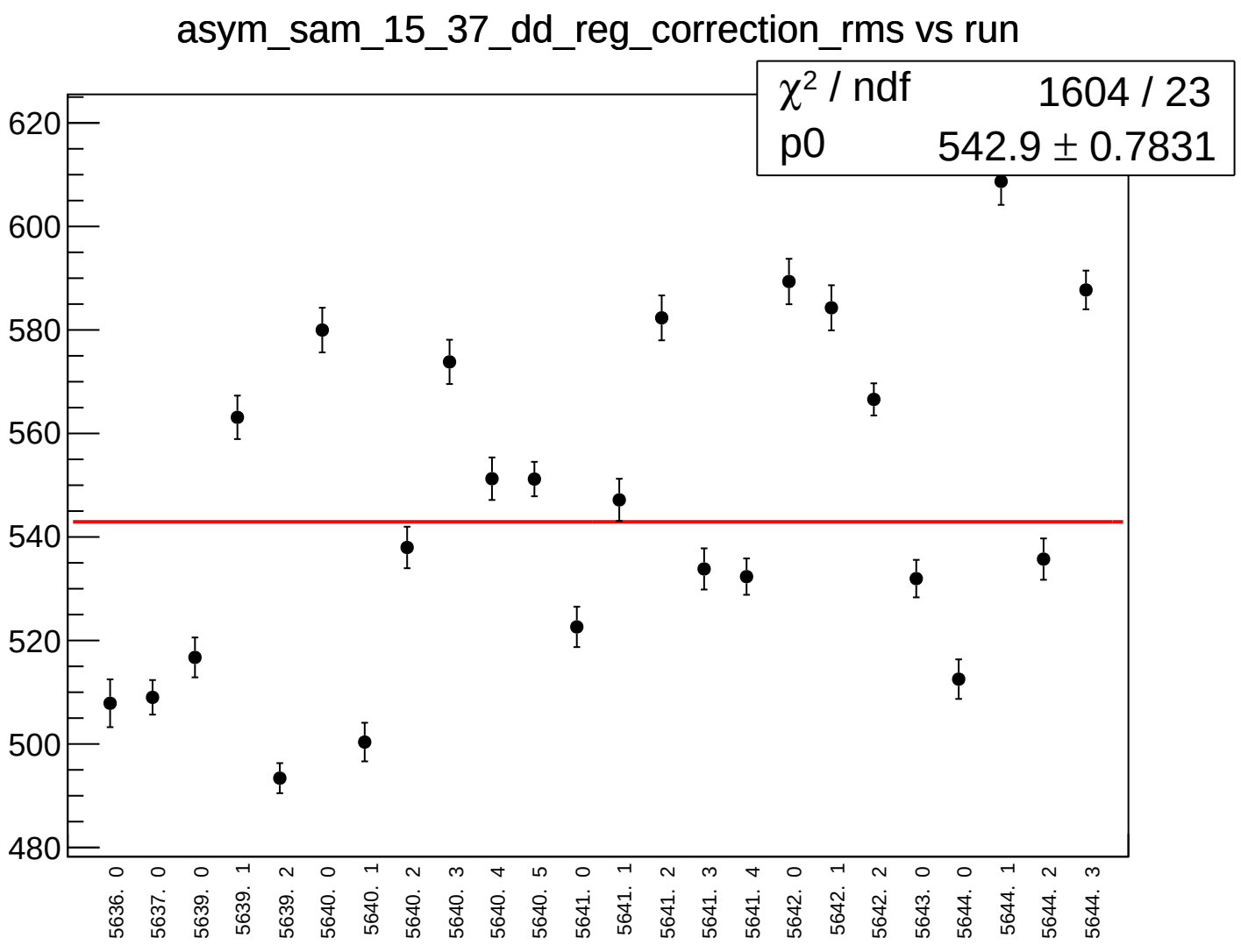
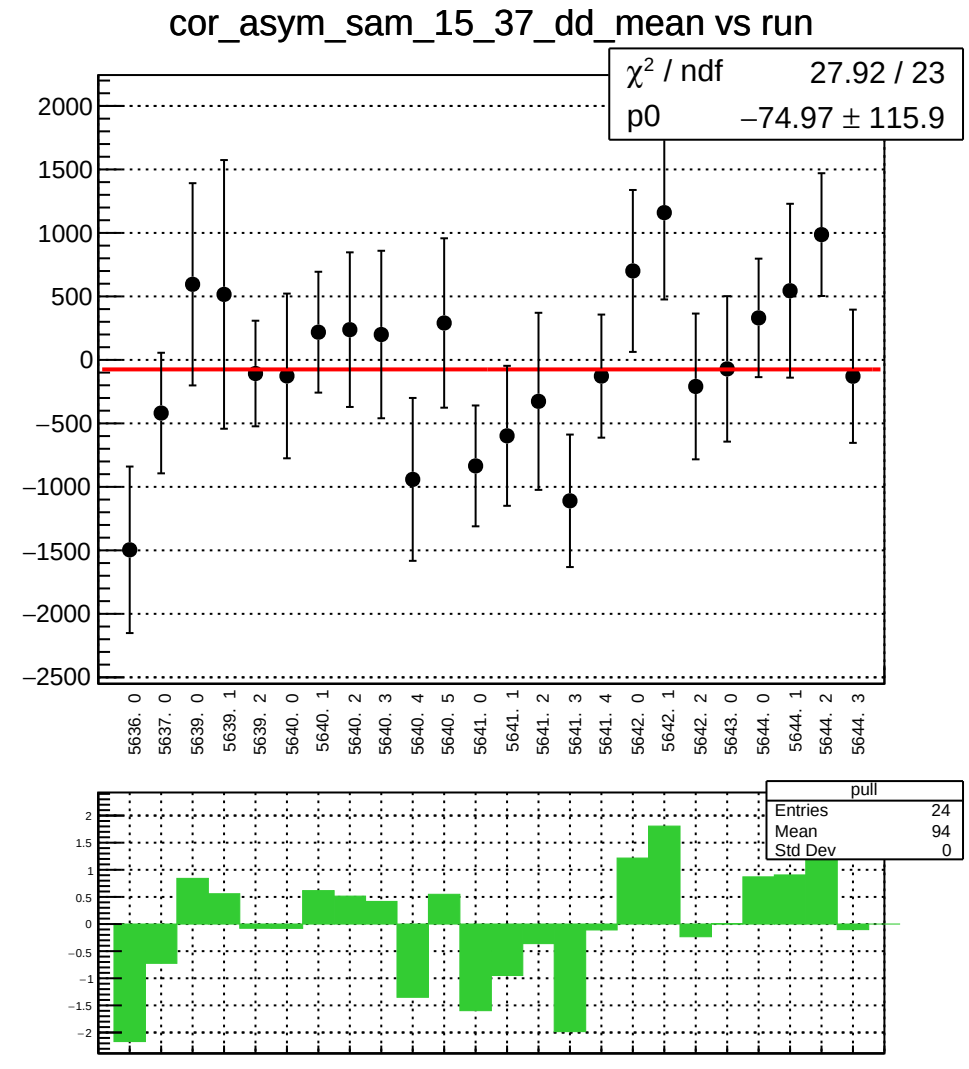
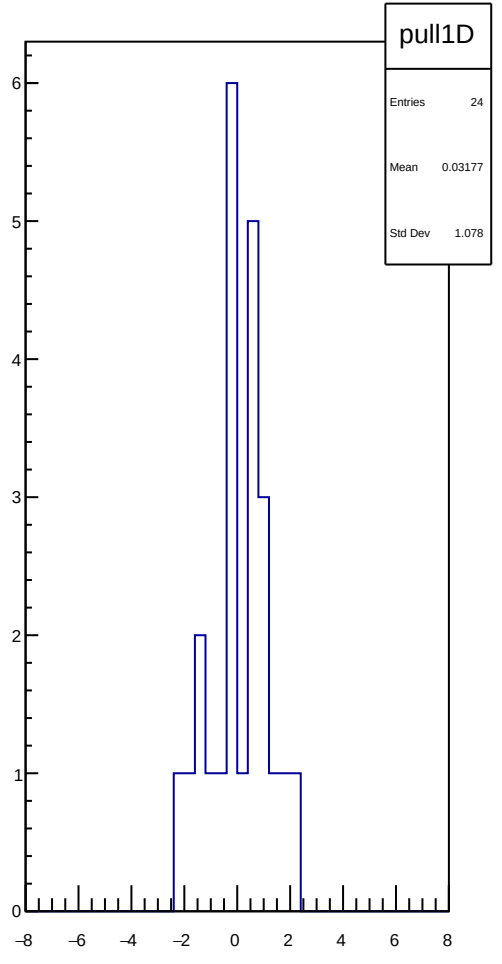
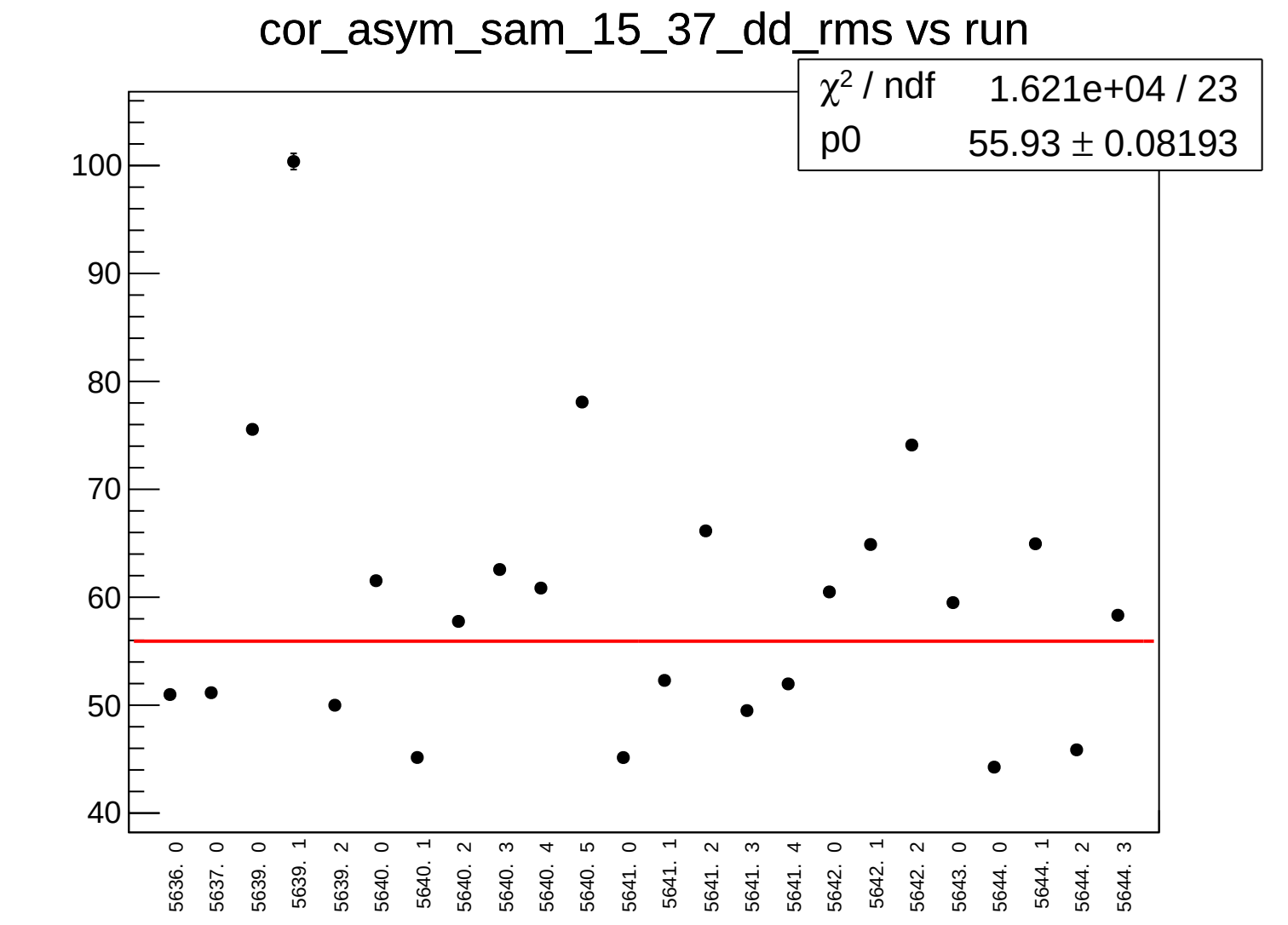
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

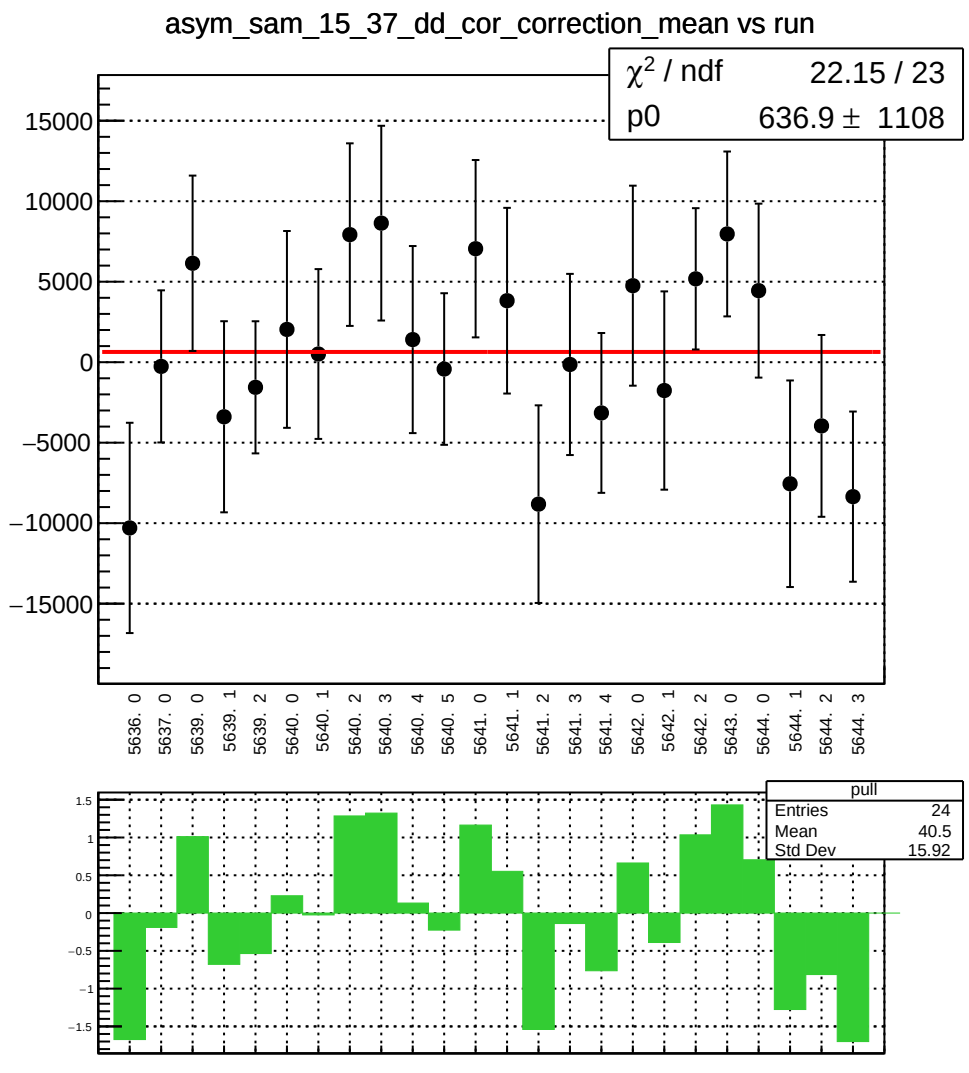

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 22.15 / 23
p0 636.9 ± 1108
15000
10000
5000
0
−5000
−10000
−15000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 40.5
Std Dev 15.92
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.01739
Std Dev 0.9606
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

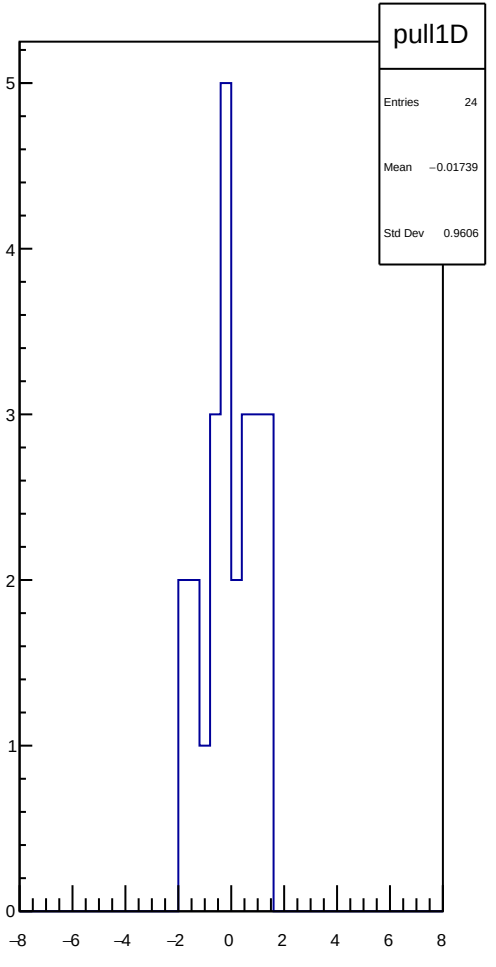

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 1604 / 23
p0 542.9 ± 0.7831
620
600
580
560
540
520
500
480
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

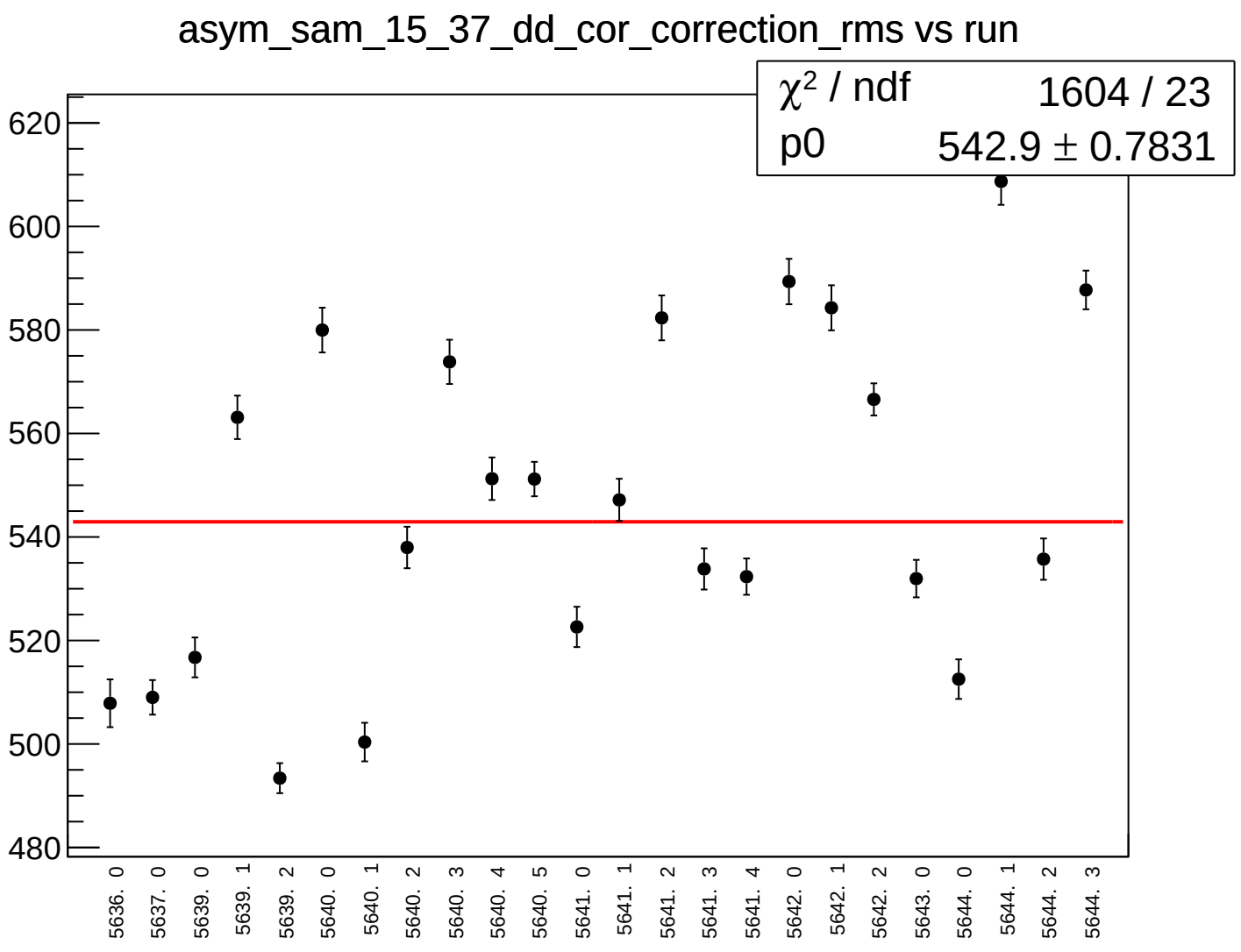

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 27.92 / 23
p0 −74.97 ± 115.9
2000
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 94
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean 0.03177
Std Dev 1.078
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.621e+04 / 23
p0 55.93 ± 0.08193
100
90
80
70
60
50
40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 22.15 / 23
p0 636.9 ± 1108
15000
10000
5000
0
−5000
−10000
−15000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 40.5
Std Dev 15.92
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean −0.01739
Std Dev 0.9606
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 1604 / 23
p0 542.9 ± 0.7831
620
600
580
560
540
520
500
480
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5642. 2
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5644. 0
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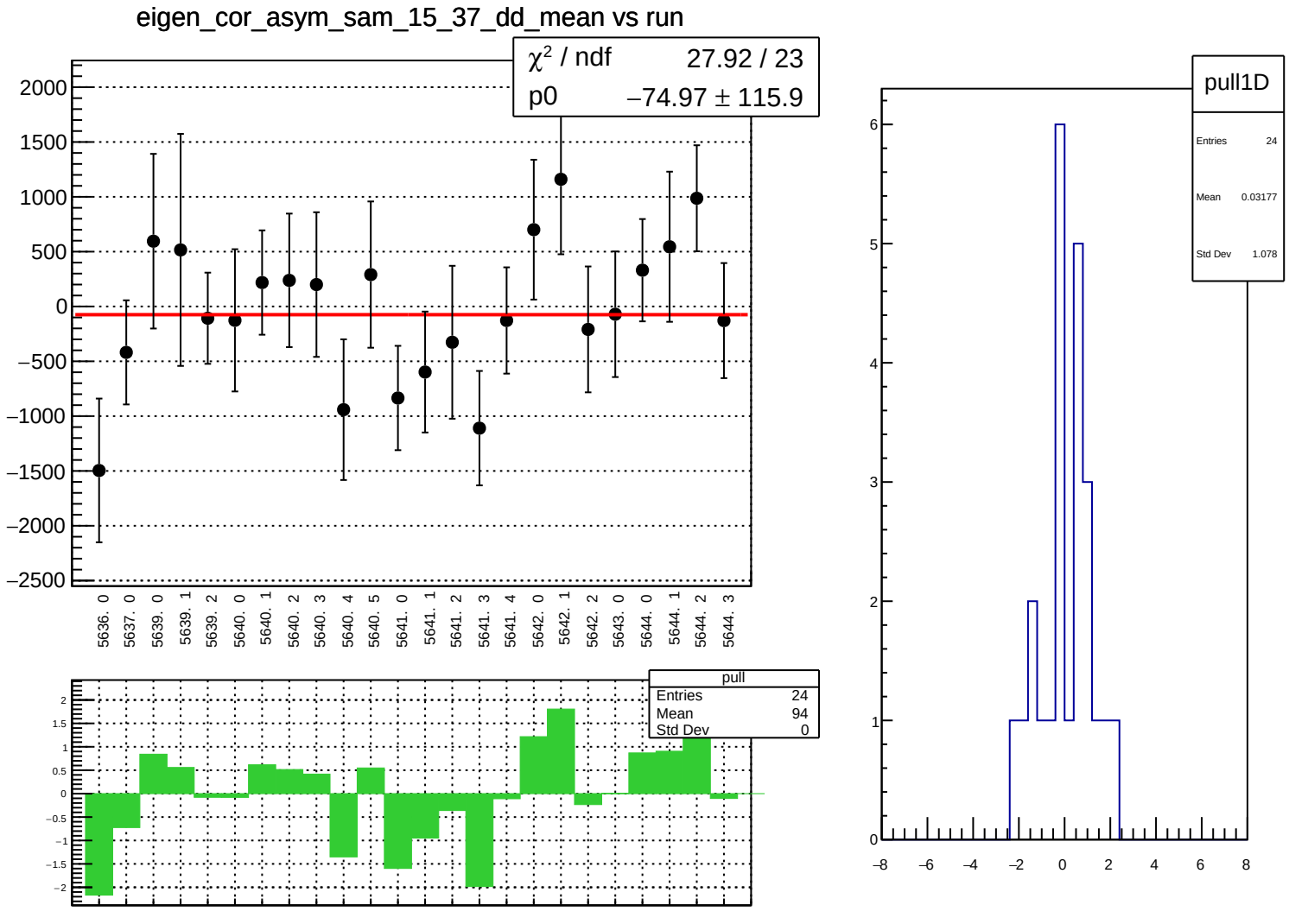
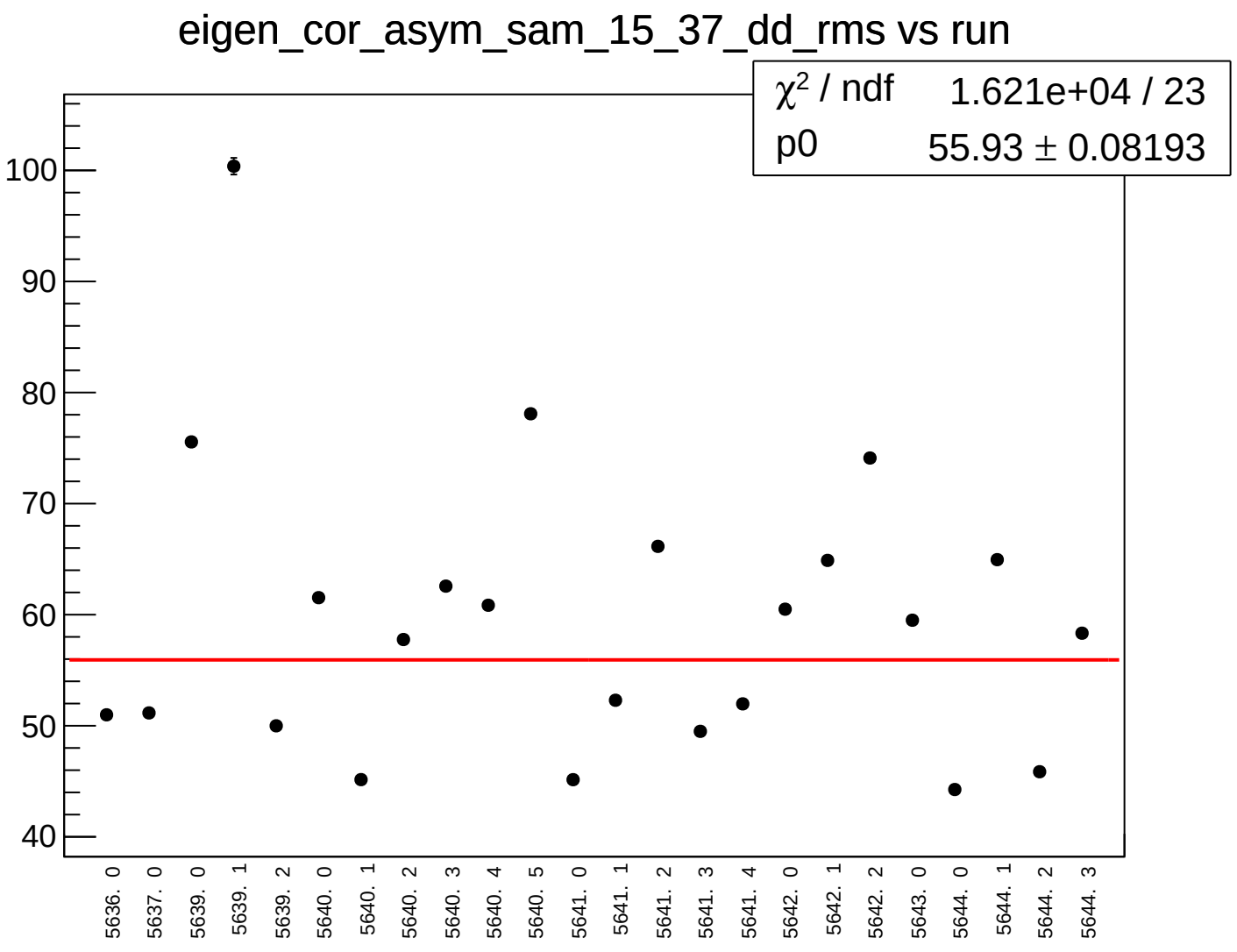
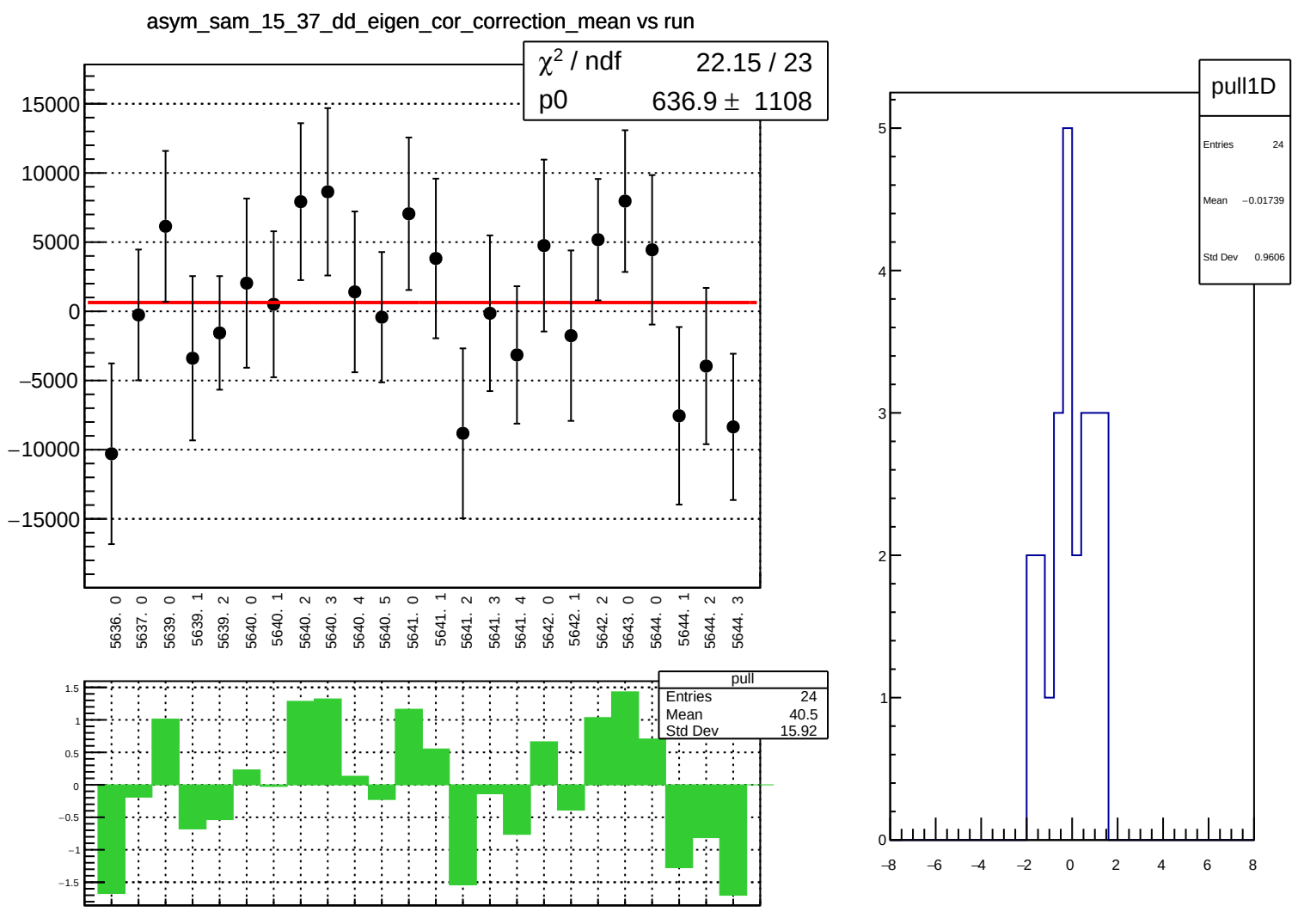
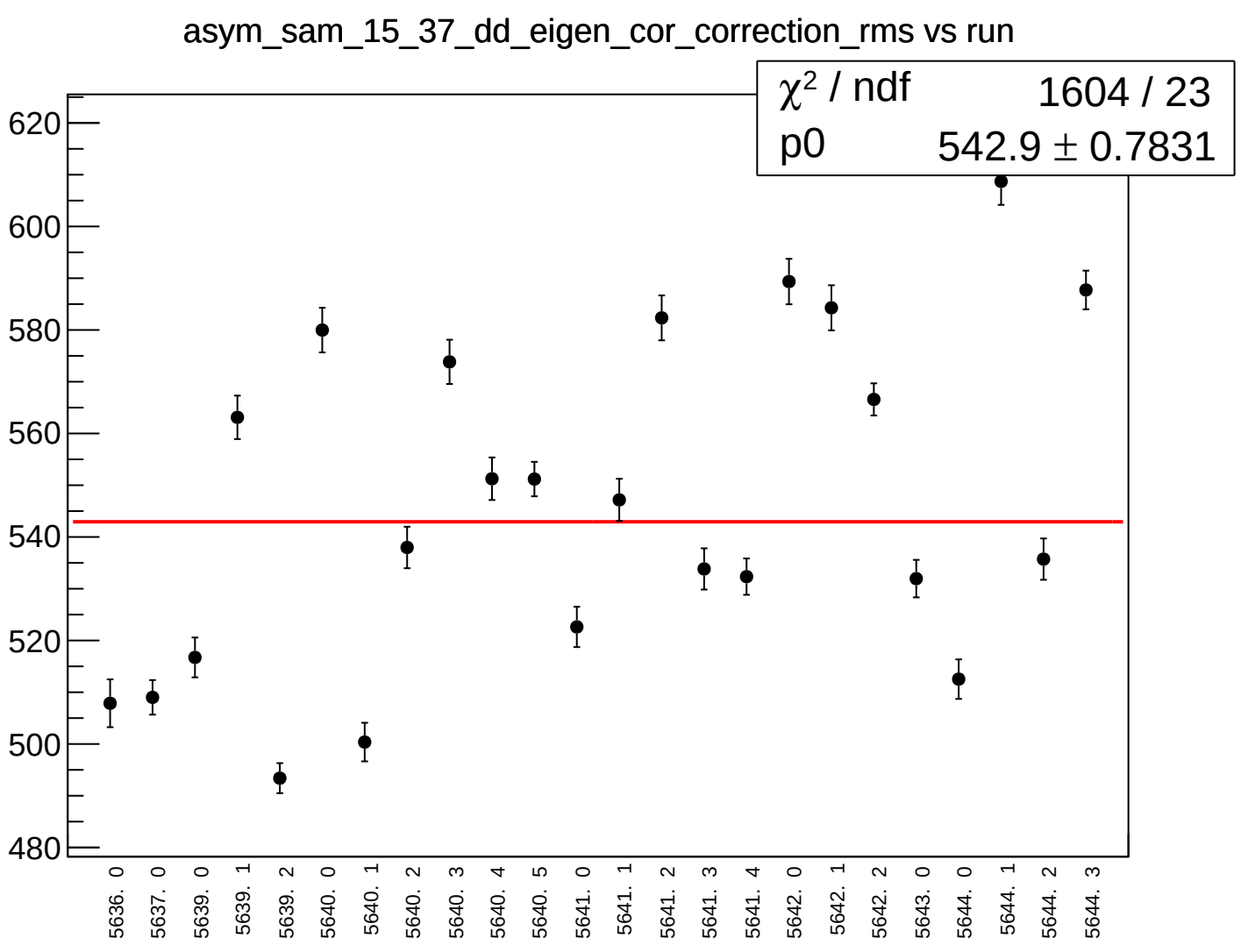
5644. 2
5644. 3


eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 27.92 / 23
p0 −74.97 ± 115.9
2000
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 94
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.03177
Std Dev 1.078
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.621e+04 / 23
p0 55.93 ± 0.08193
100
90
80
70
60
50
40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 22.15 / 23
p0 636.9 ± 1108
15000
10000
5000
0
−5000
−10000
−15000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 40.5
Std Dev 15.92
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.01739
Std Dev 0.9606
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1604 / 23
p0 542.9 ± 0.7831
620
600
580
560
540
520
500
480
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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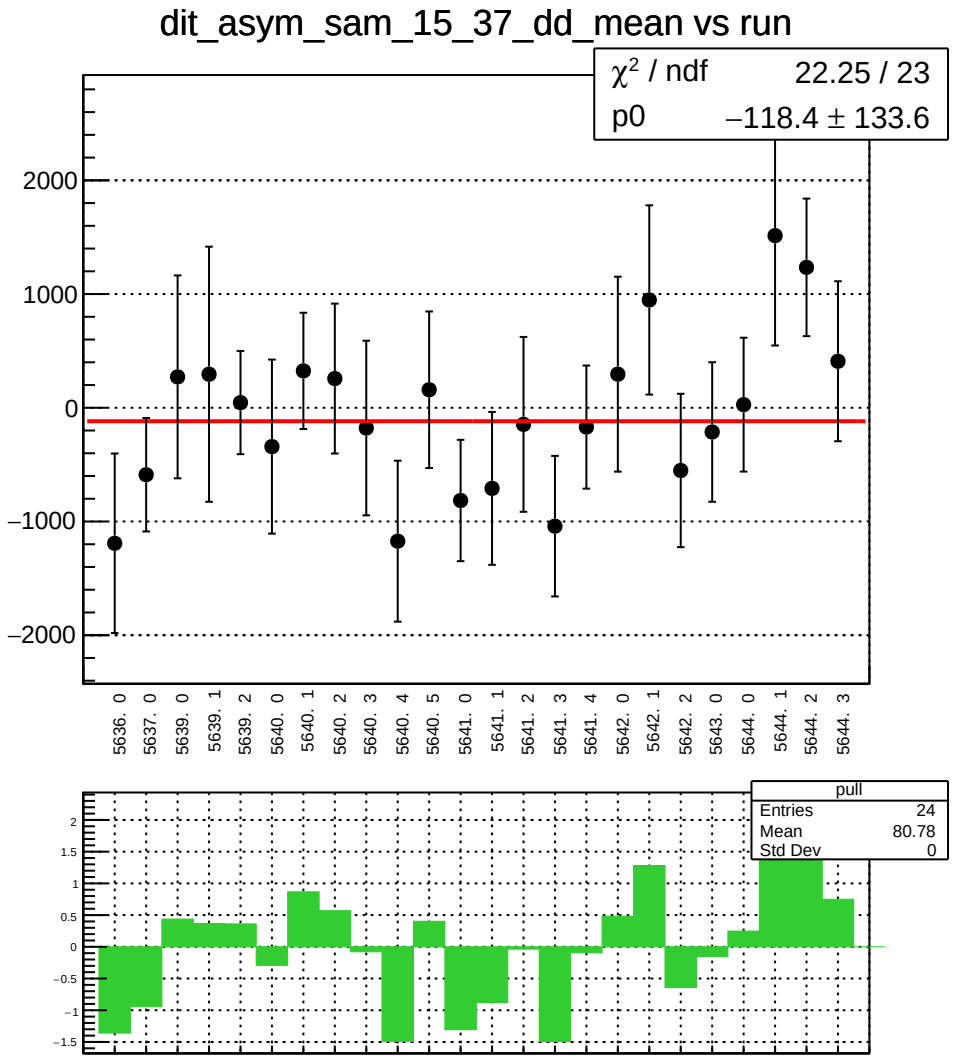
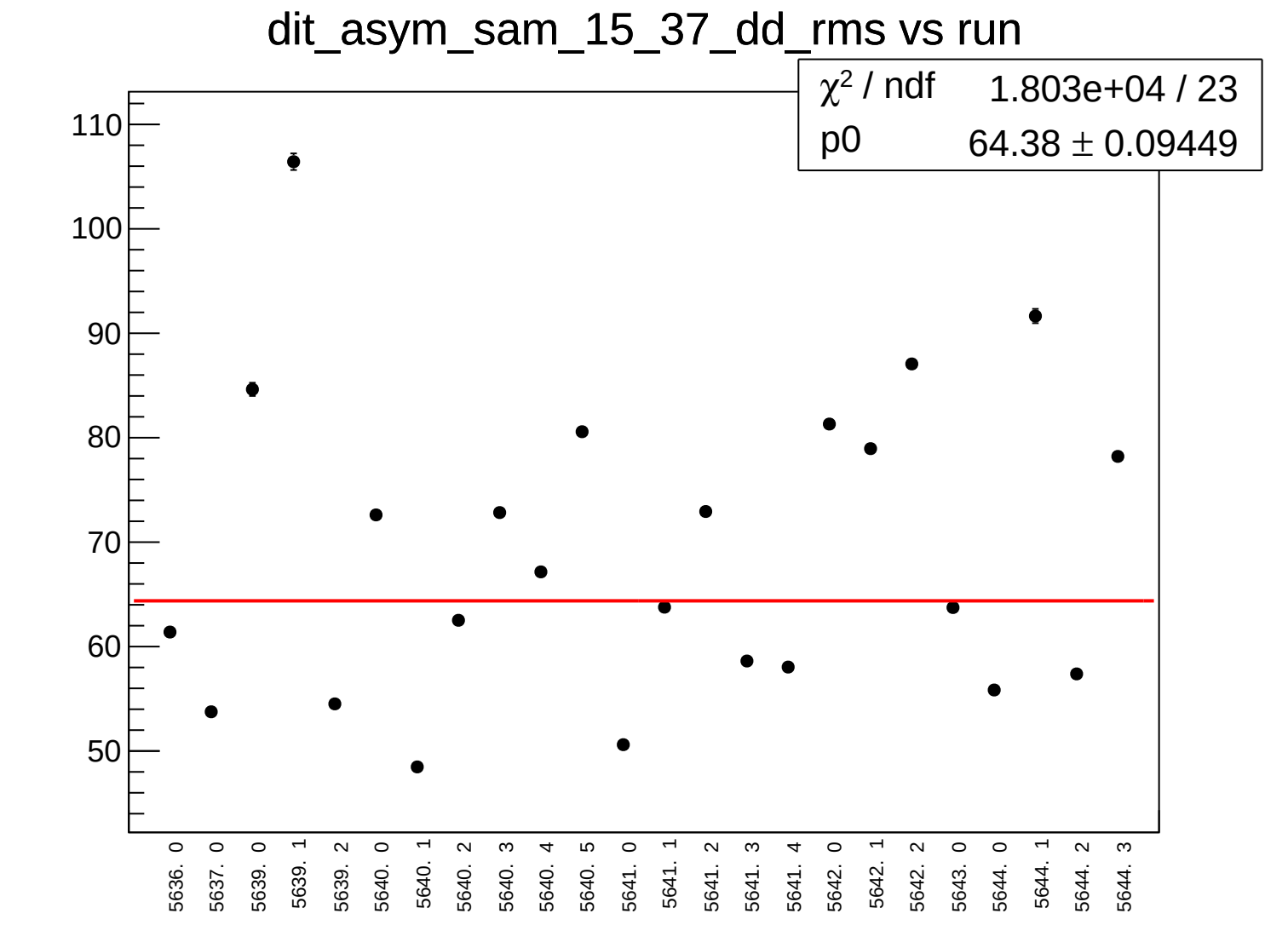
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 22.25 / 23
p0 −118.4 ± 133.6
2000
1000
0
−1000
−2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 80.78
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.03861
Std Dev 0.9622
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.803e+04 / 23
p0 64.38 ± 0.09449
110
100
90
80
70
60
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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5642. 2
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5644. 0
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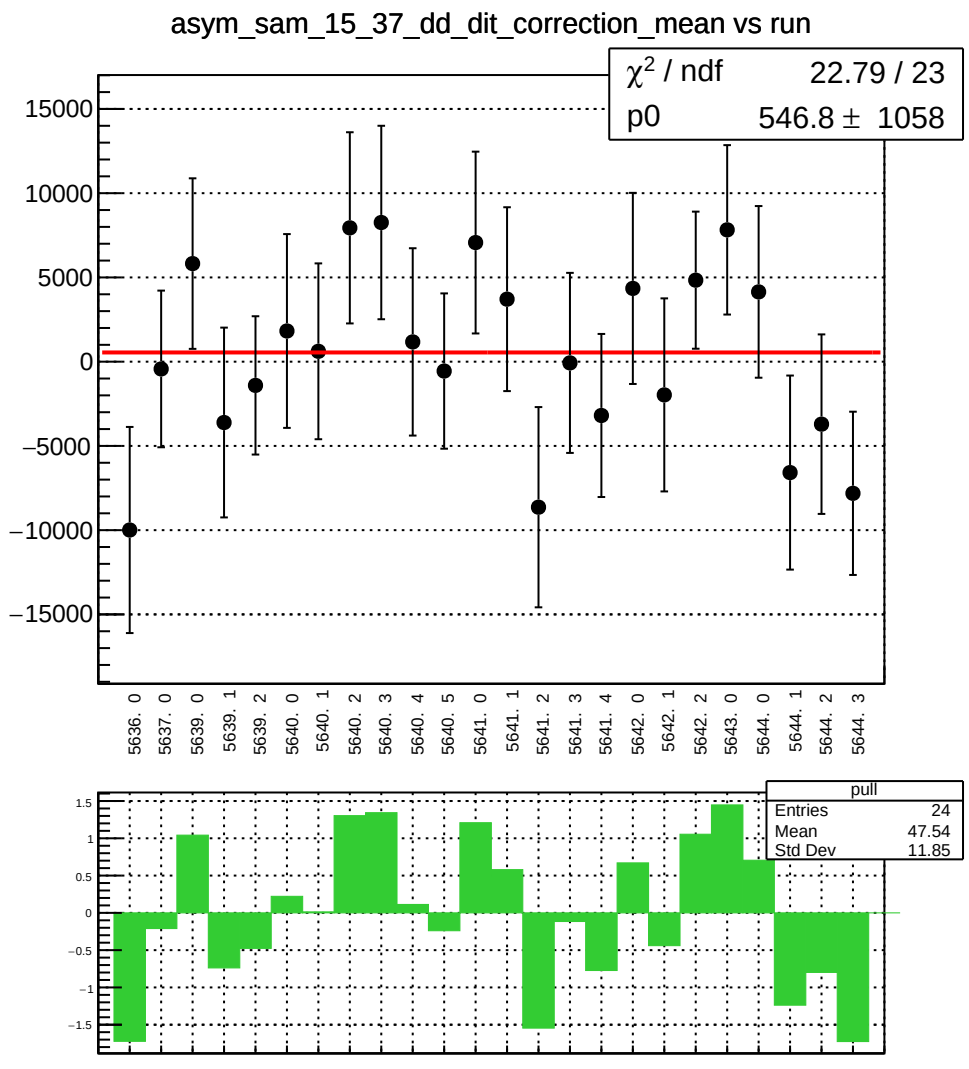
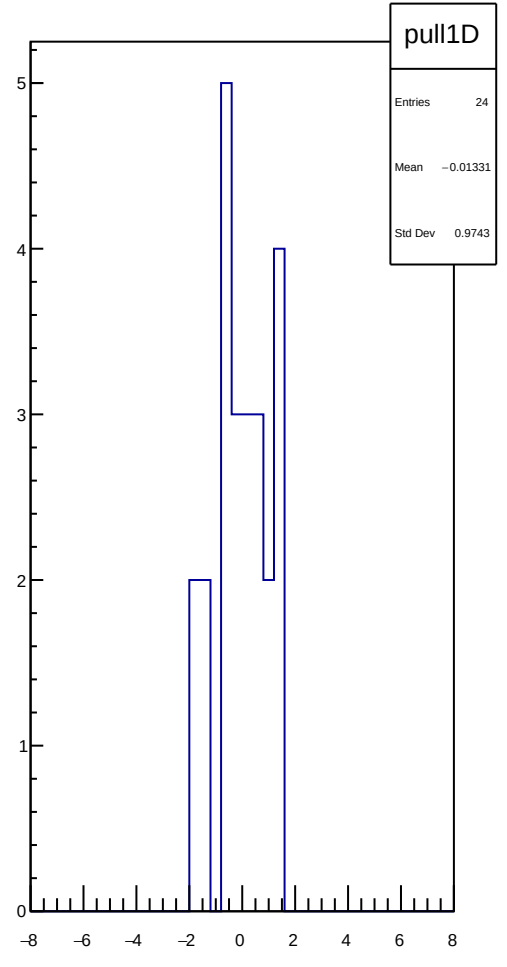
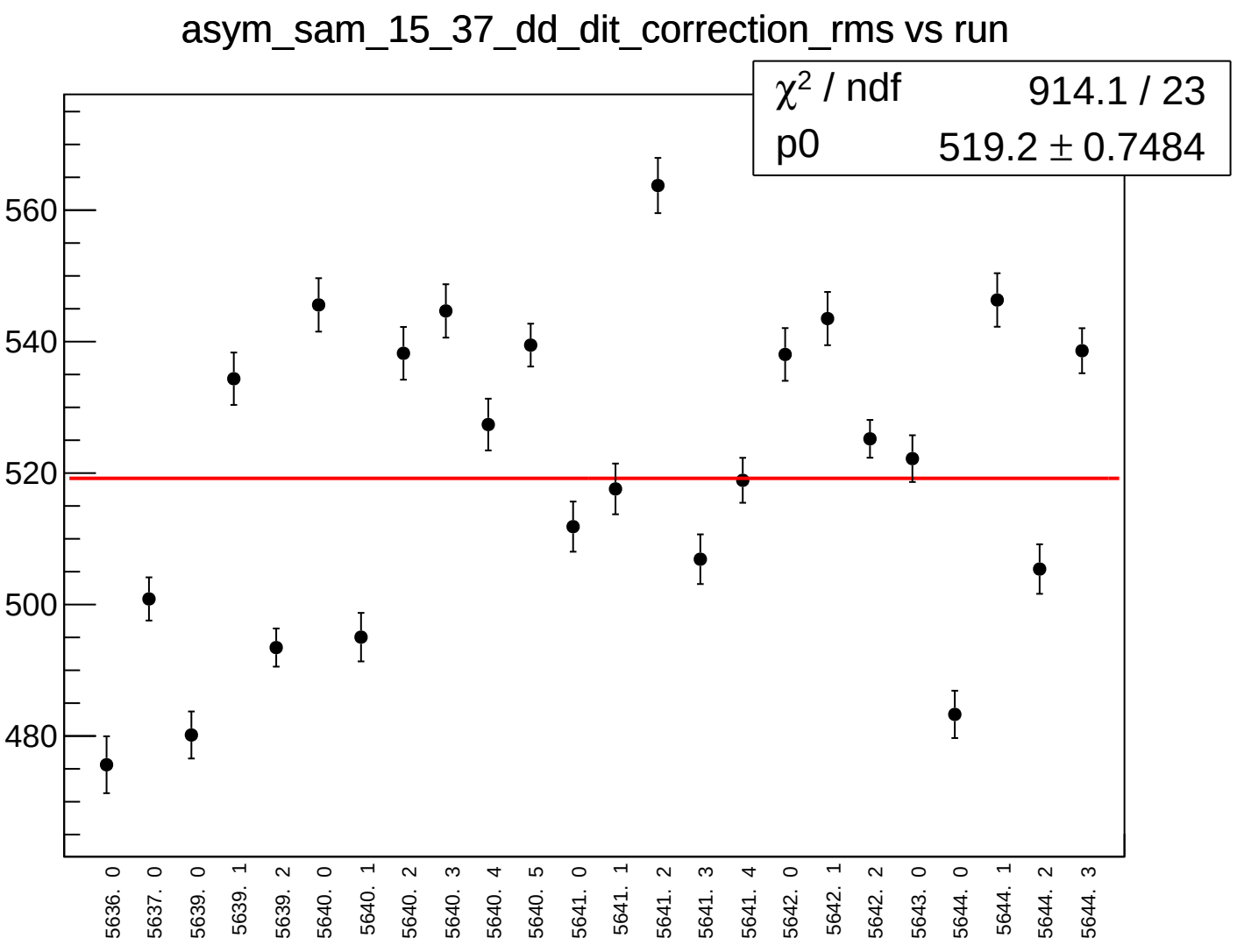
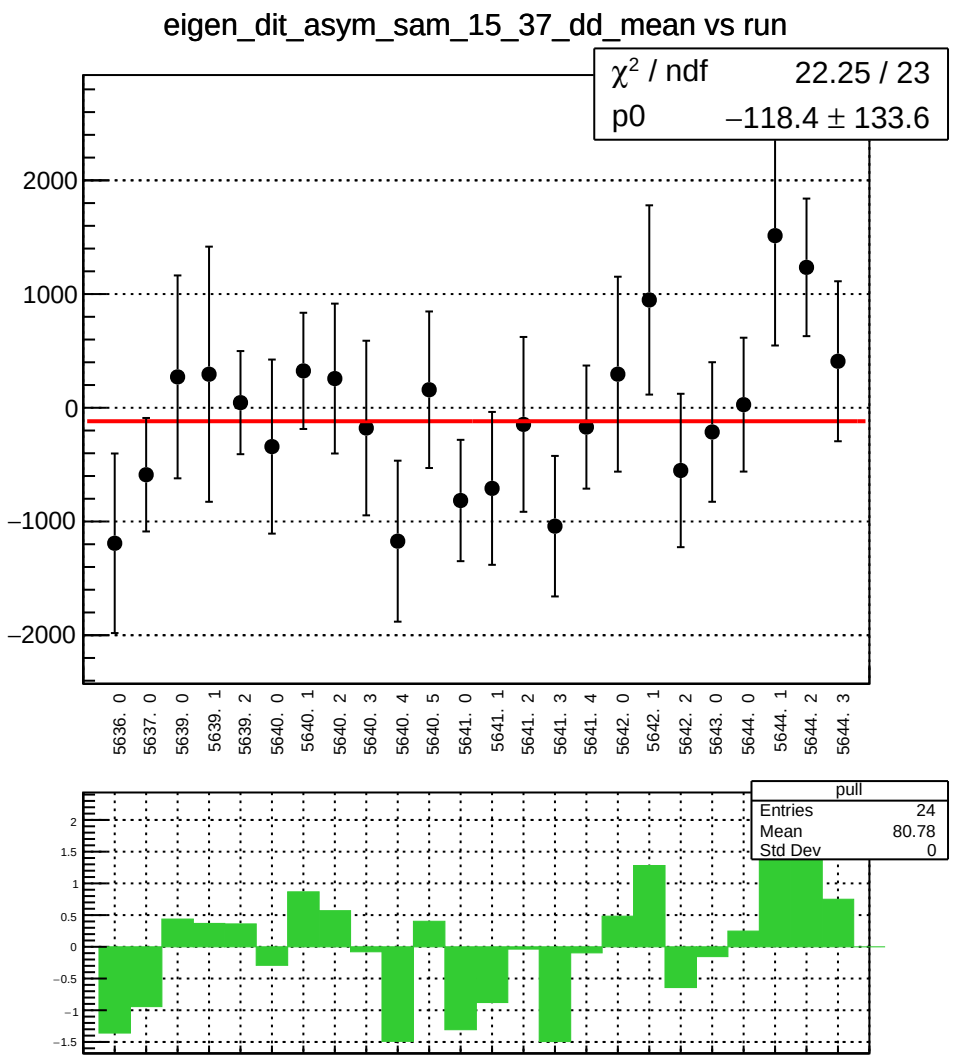
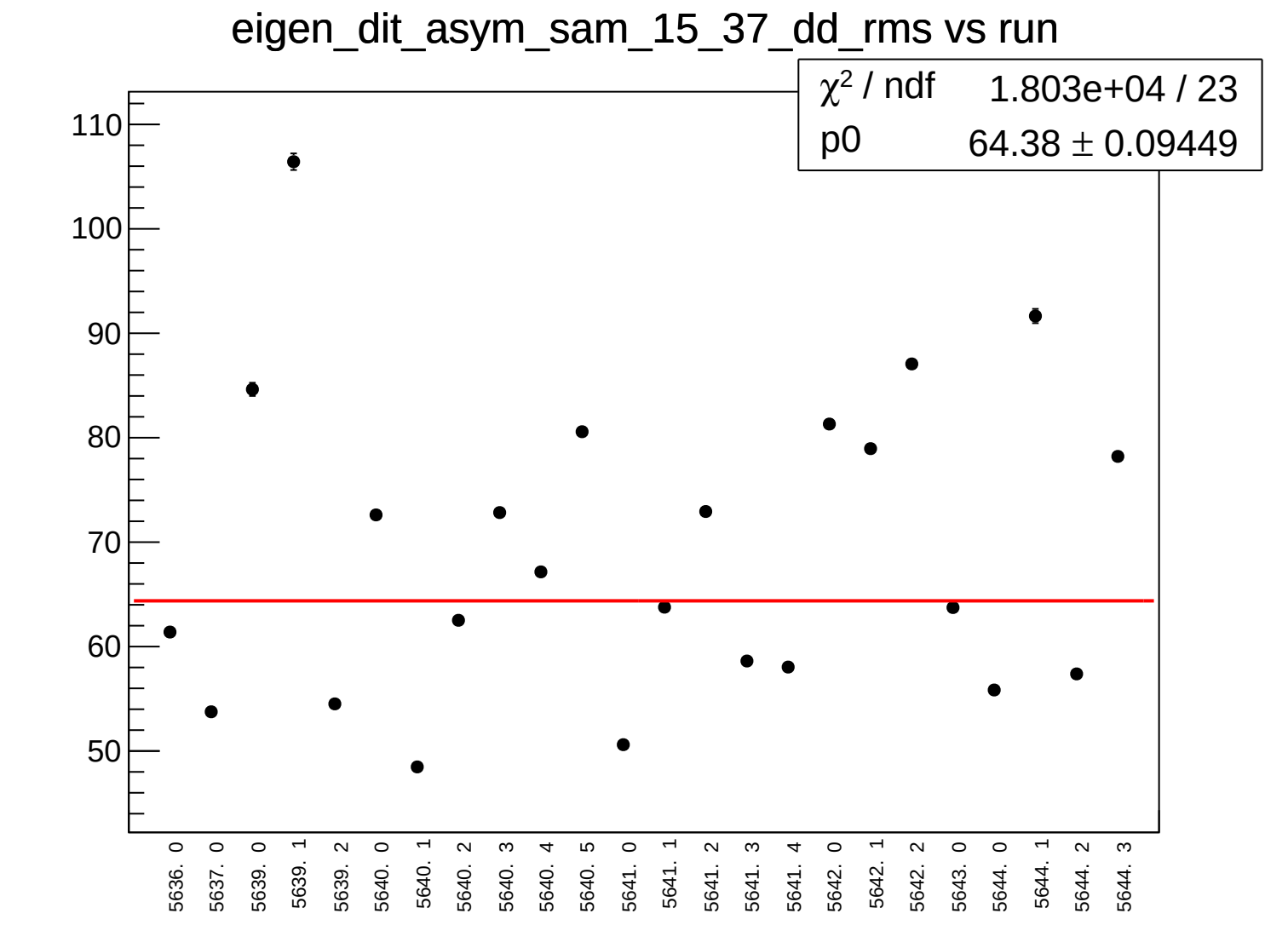
5644. 2
5644. 3


asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 22.79 / 23
p0 546.8 ± 1058
15000
10000
5000
0
−5000
−10000
−15000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 47.54
Std Dev 11.85
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean −0.01331
Std Dev 0.9743
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 914.1 / 23
p0 519.2 ± 0.7484
560
540
520
500
480
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 22.25 / 23
p0 −118.4 ± 133.6
2000
1000
0
−1000
−2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 80.78
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.03861
Std Dev 0.9622
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.803e+04 / 23
p0 64.38 ± 0.09449
110
100
90
80
70
60
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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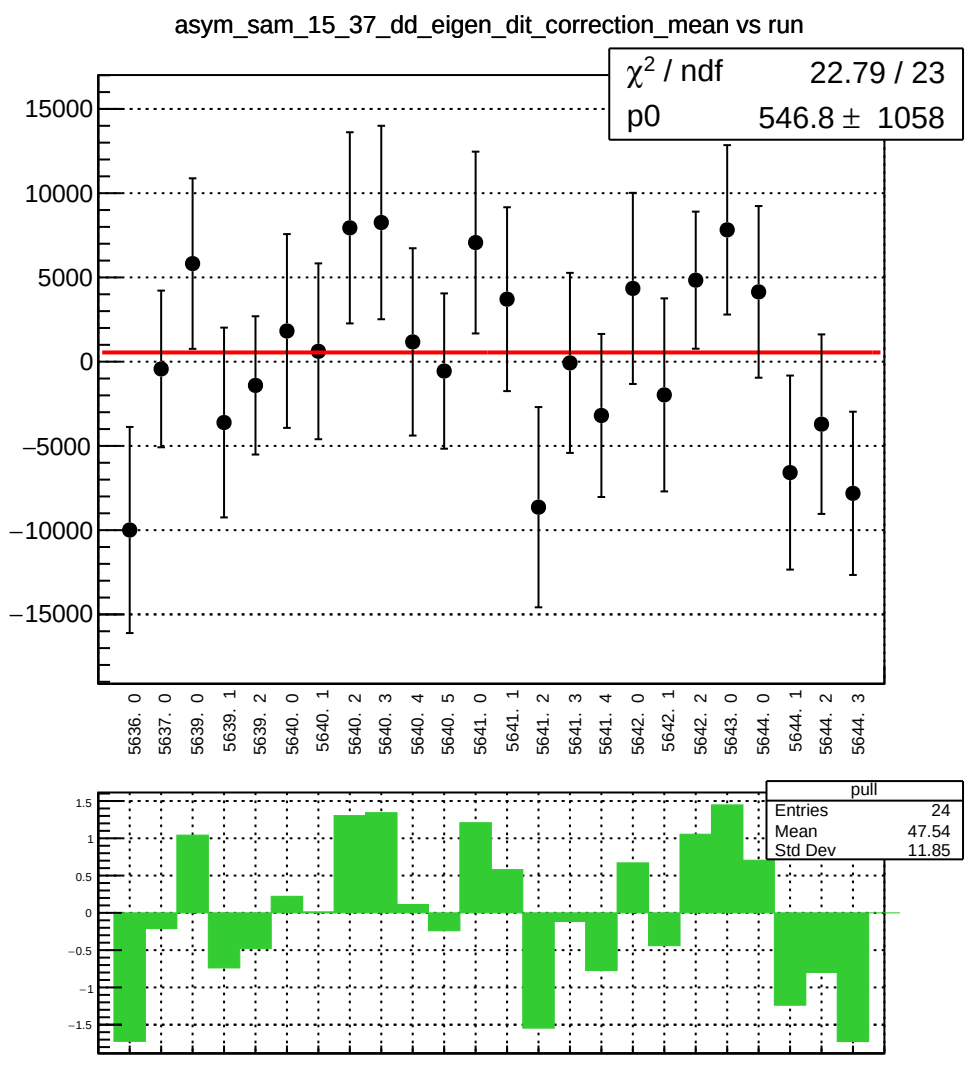
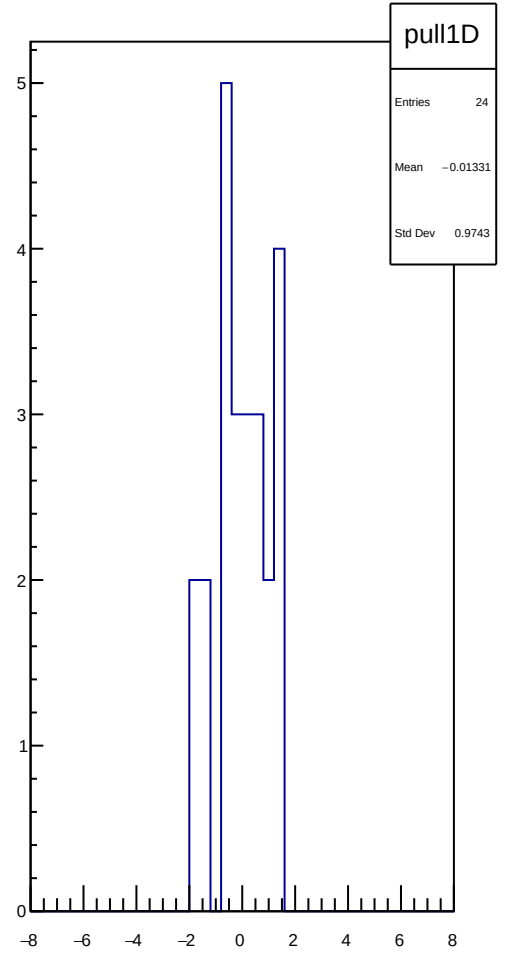
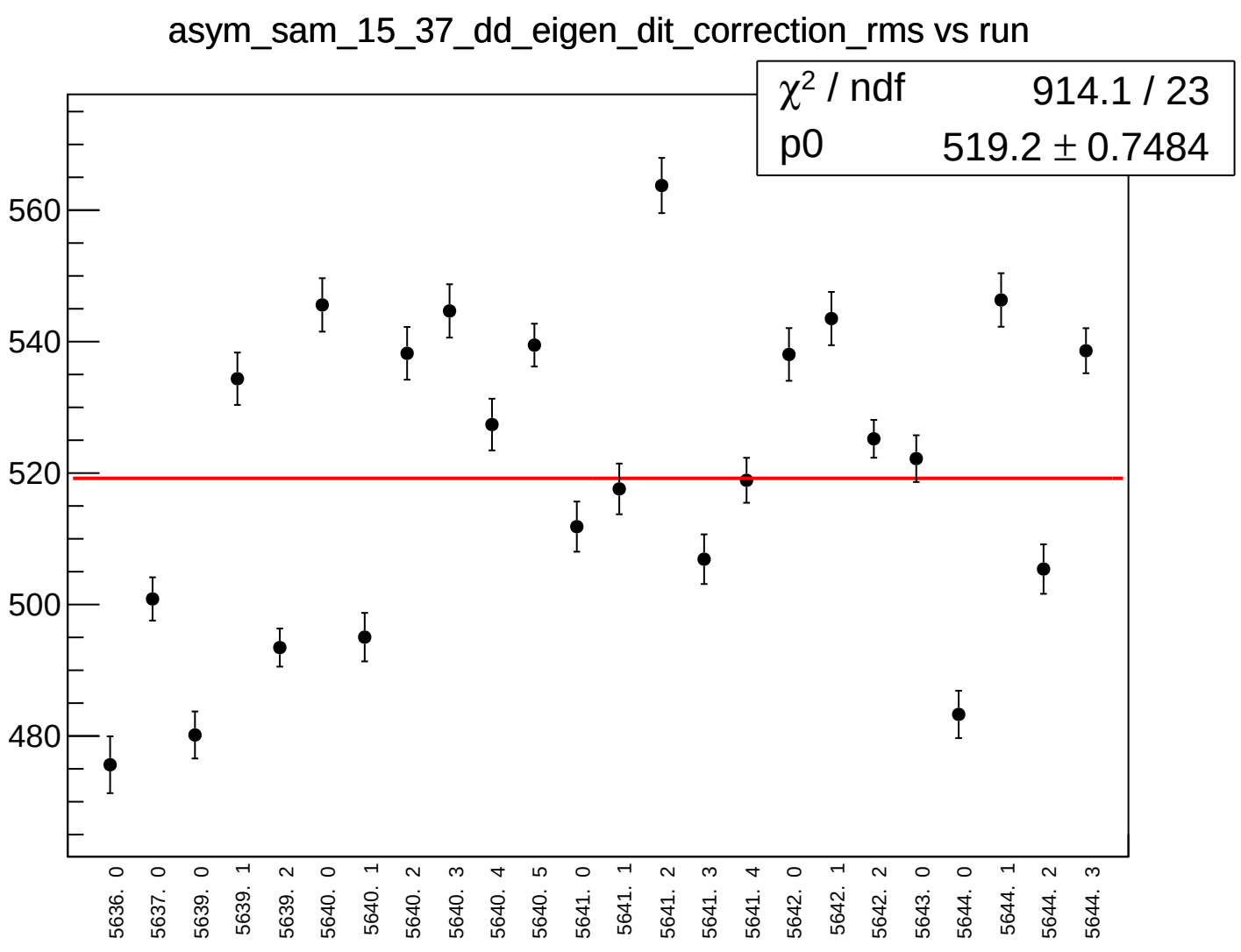
5644. 2
5644. 3


asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 22.79 / 23
p0 546.8 ± 1058
15000
10000
5000
0
−5000
−10000
−15000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 47.54
Std Dev 11.85
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean −0.01331
Std Dev 0.9743
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 914.1 / 23
p0 519.2 ± 0.7484
560
540
520
500
480
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
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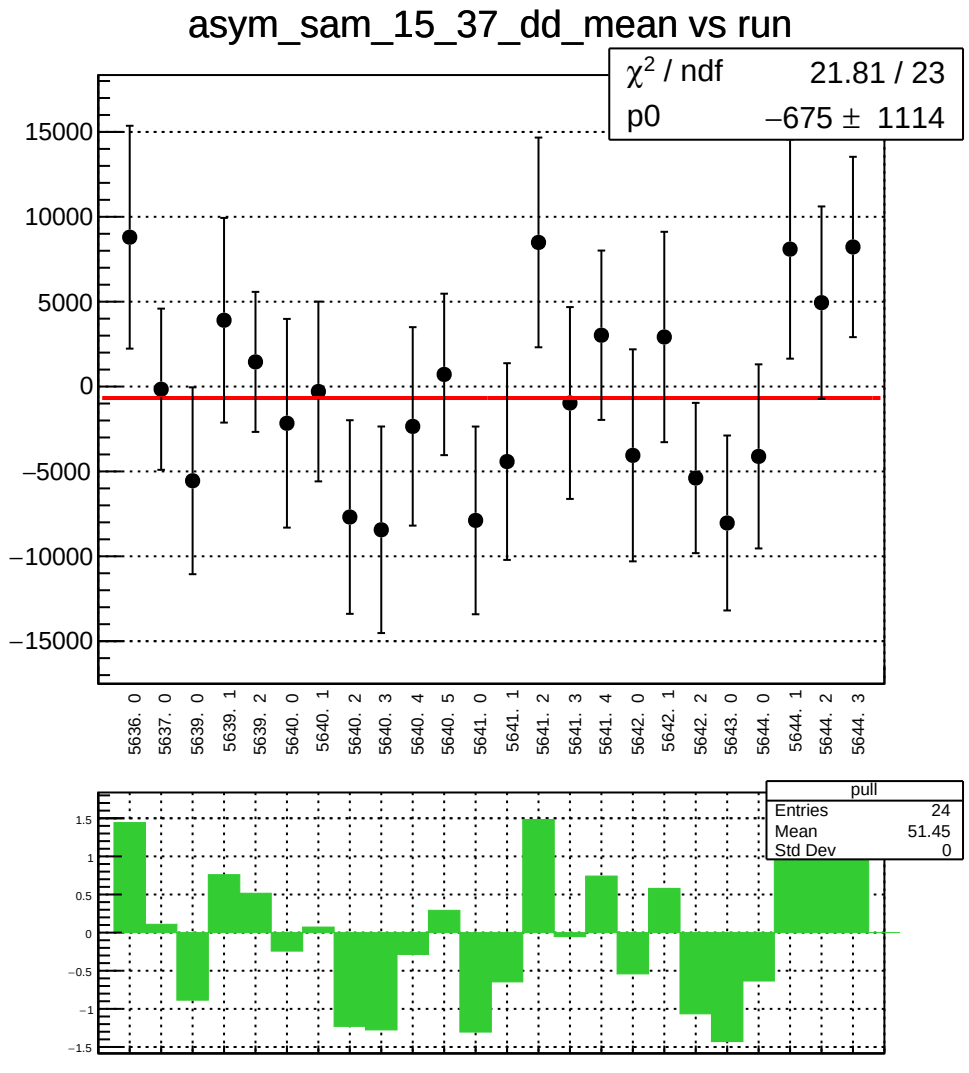
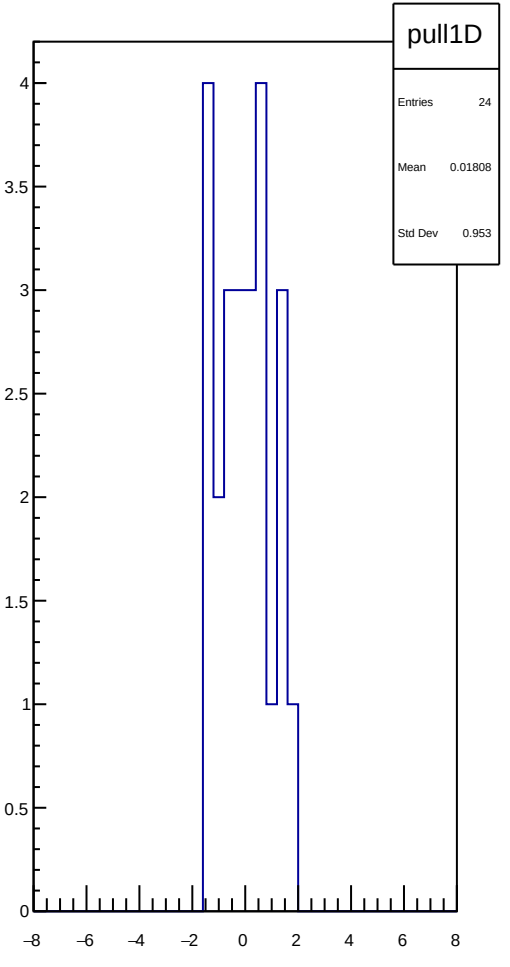
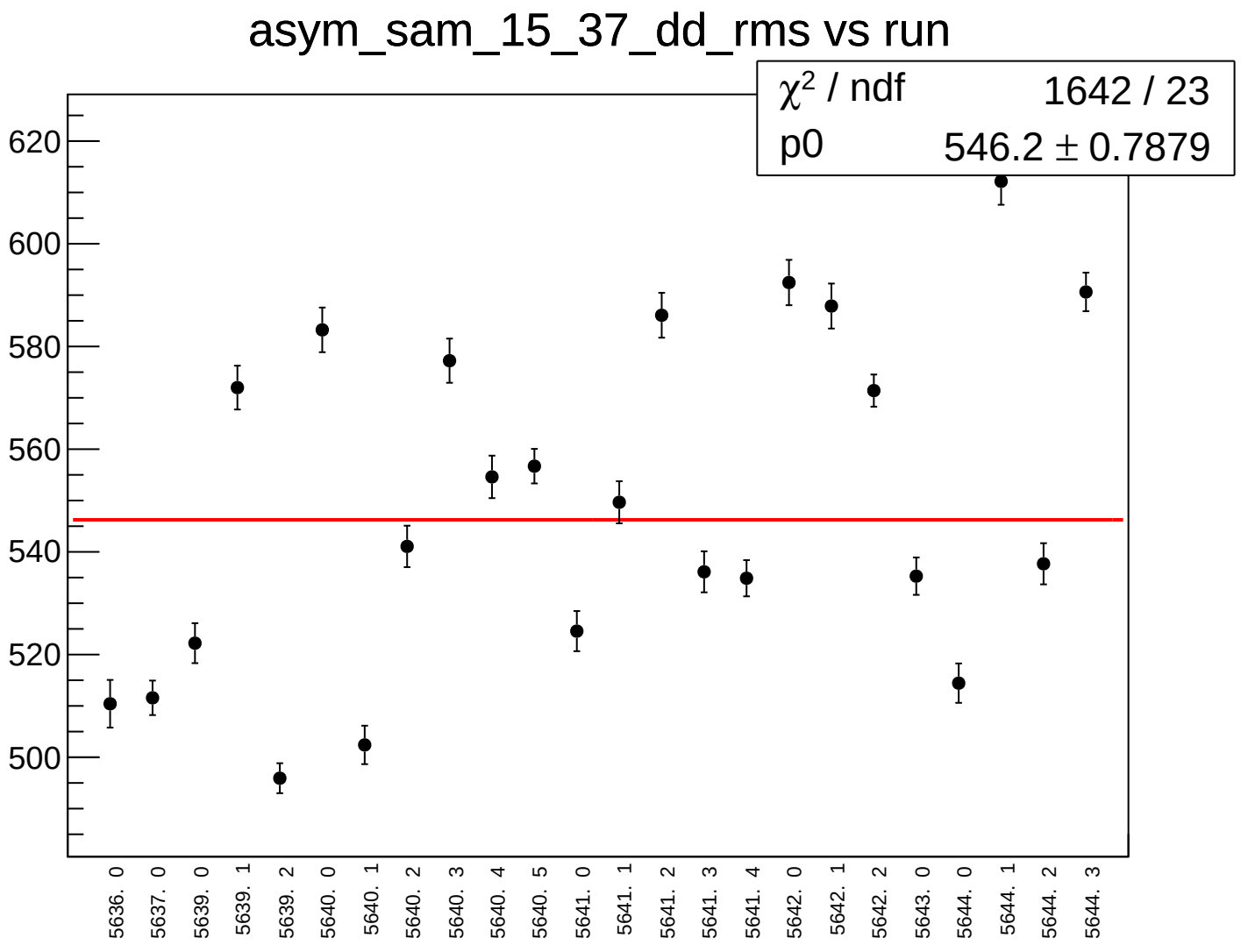
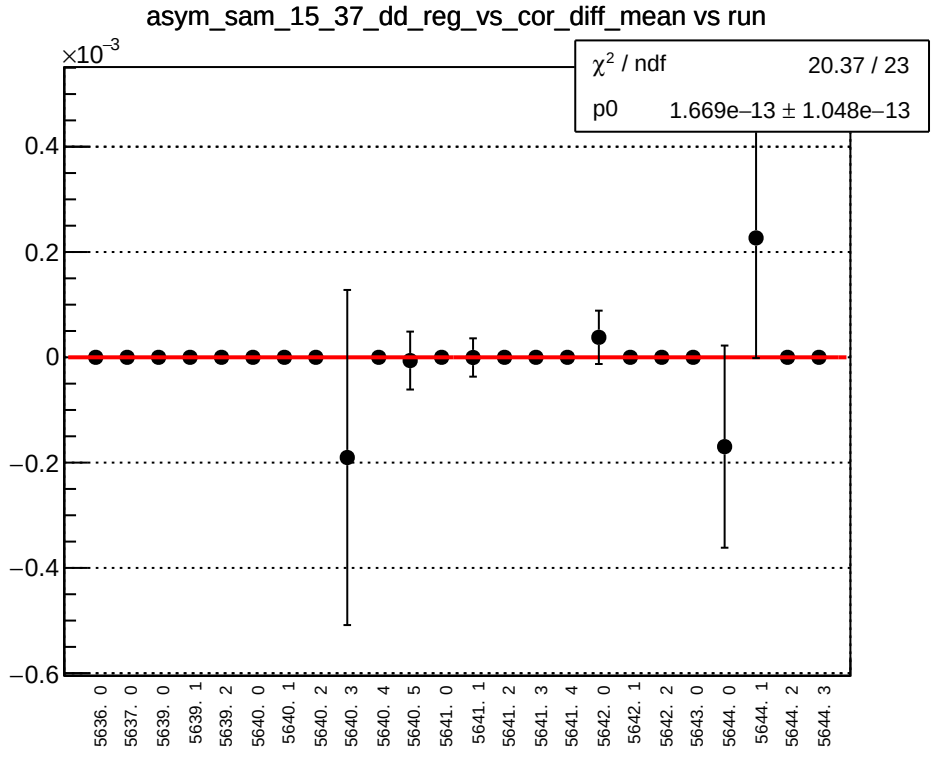
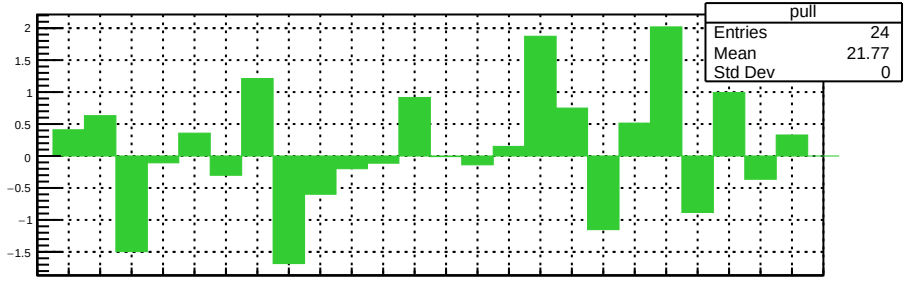
5644. 2
5644. 3

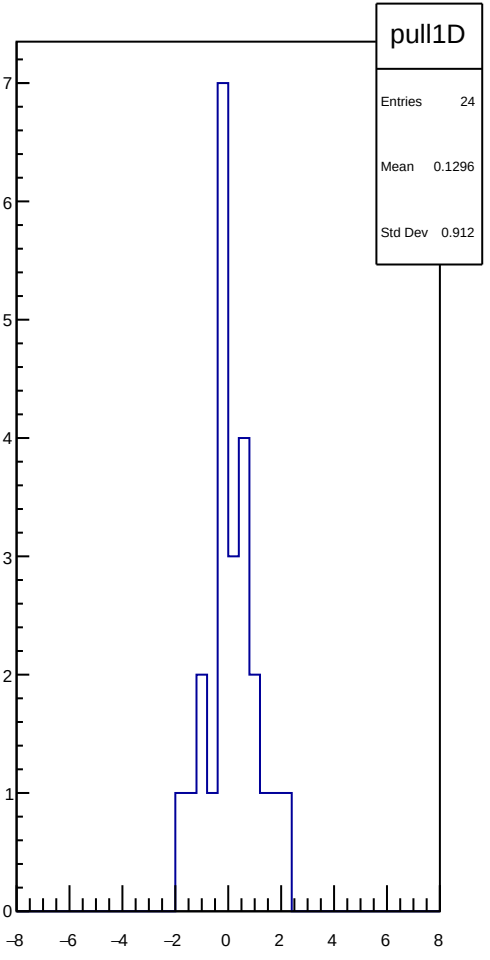

asym_sam_15_37_dd_mean vs run
χ² / ndf 21.81 / 23
p0 −675 ± 1114
15000
10000
5000
0
−5000
−10000
−15000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 51.45
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

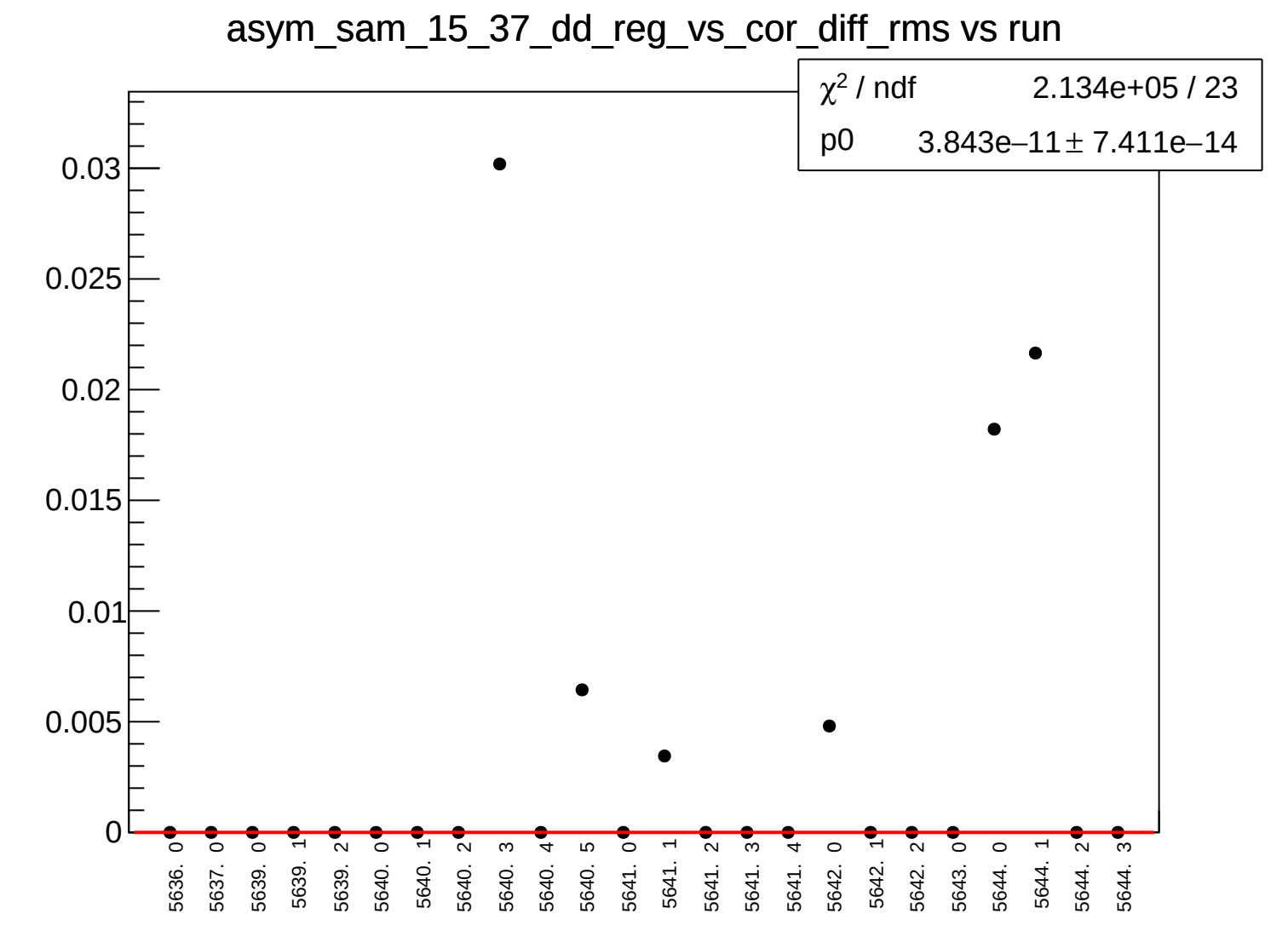

pull1D
Entries 24
Mean 0.01808
Std Dev 0.953
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

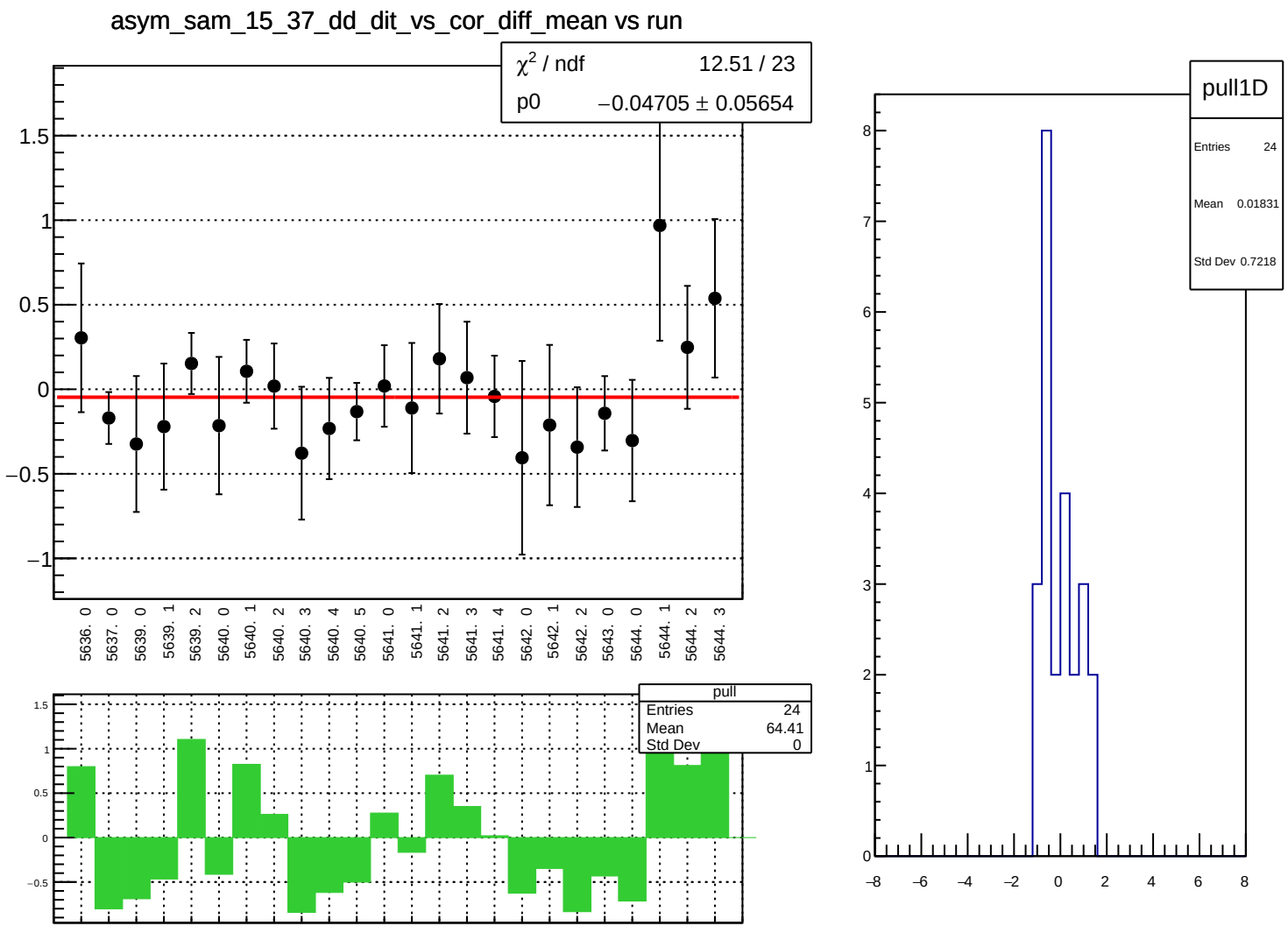

asym_sam_15_37_dd_rms vs run
χ² / ndf 1642 / 23
p0 546.2 ± 0.7879
620
600
580
560
540
520
500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

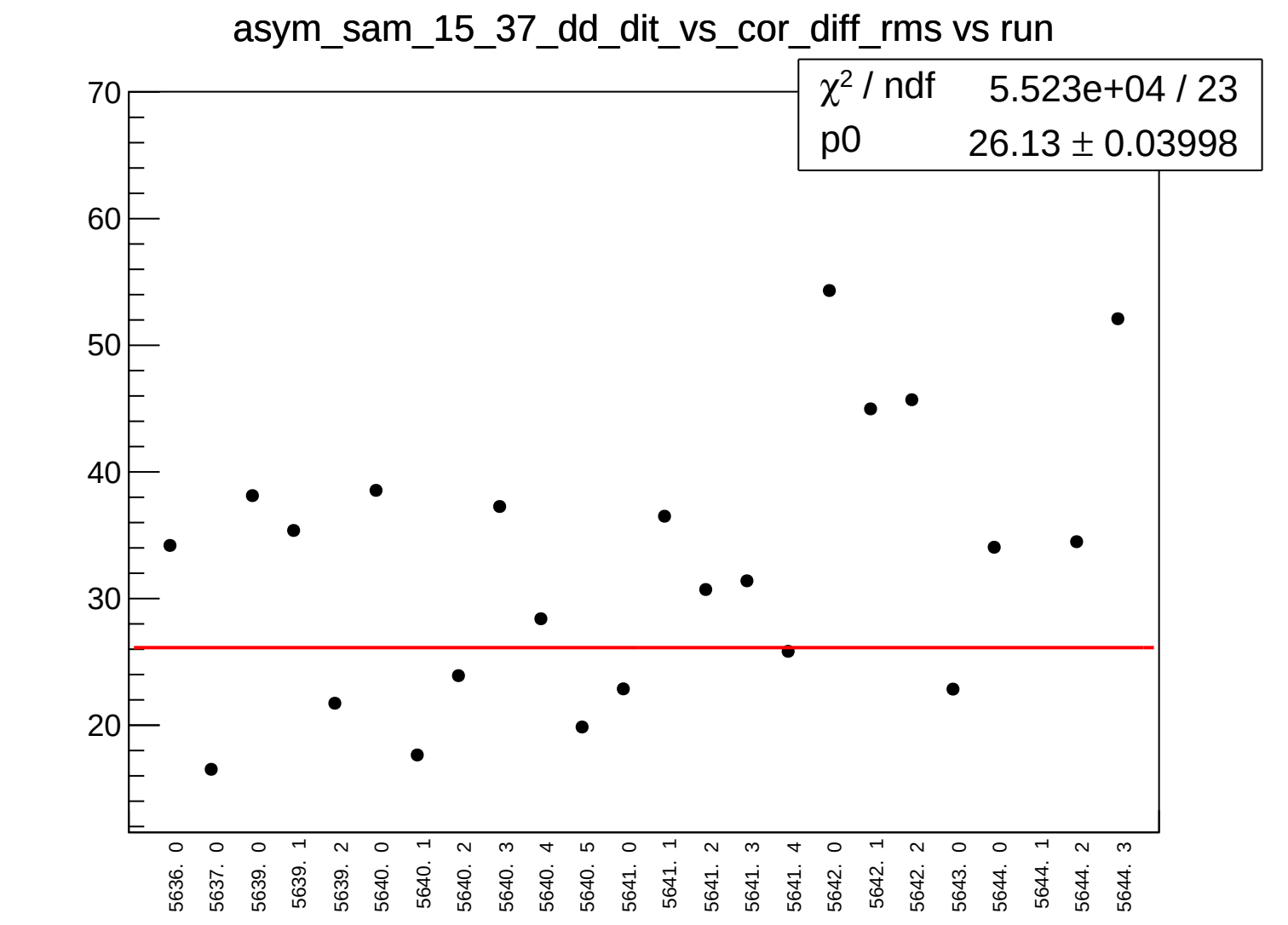

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
×10−3
χ2 / ndf 20.37 / 23
p0 1.669e−13 ± 1.048e−13
0.4
0.2
0
−0.2
−0.4
−0.6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

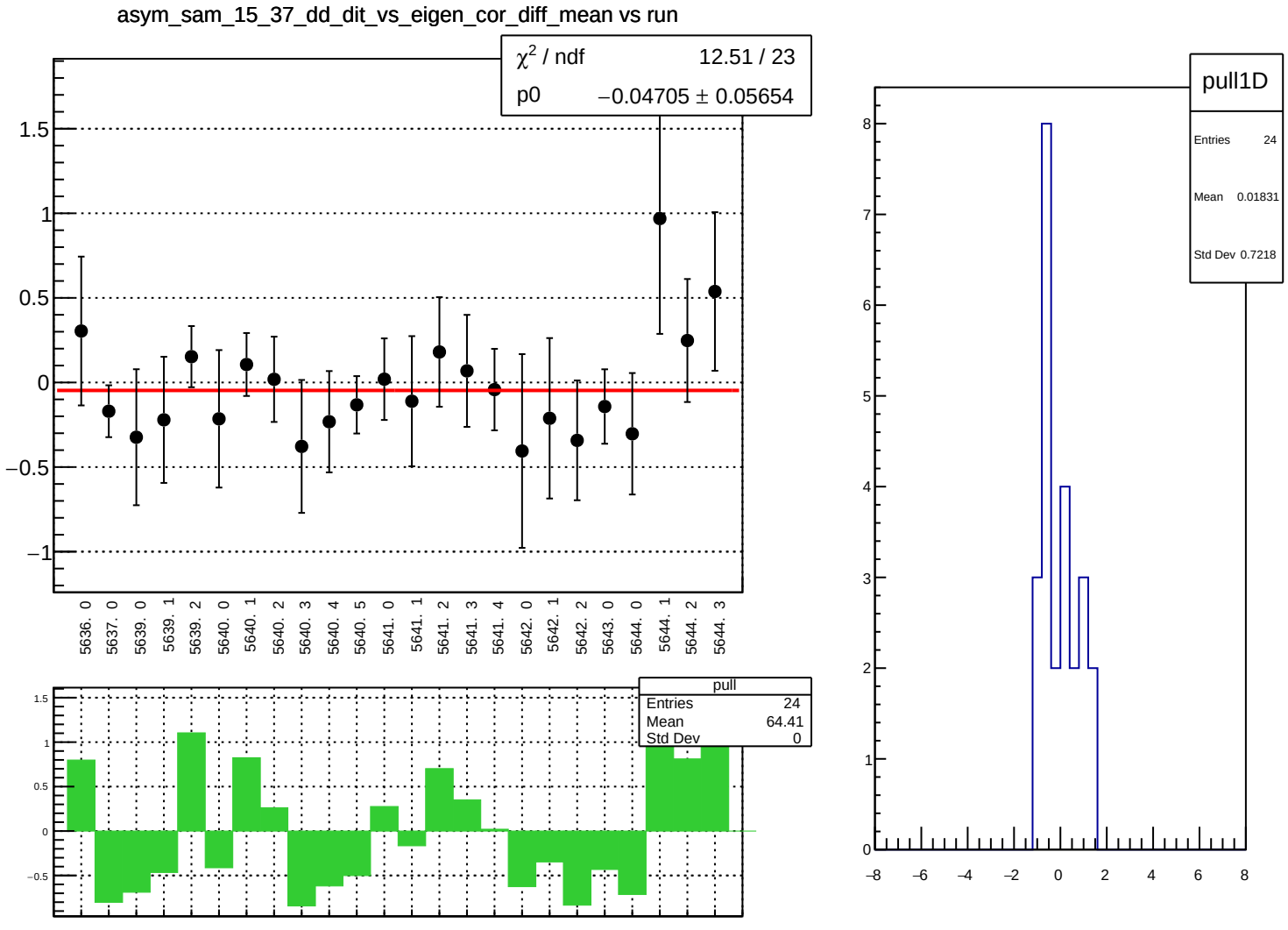

pull
Entries 24
Mean 21.77
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

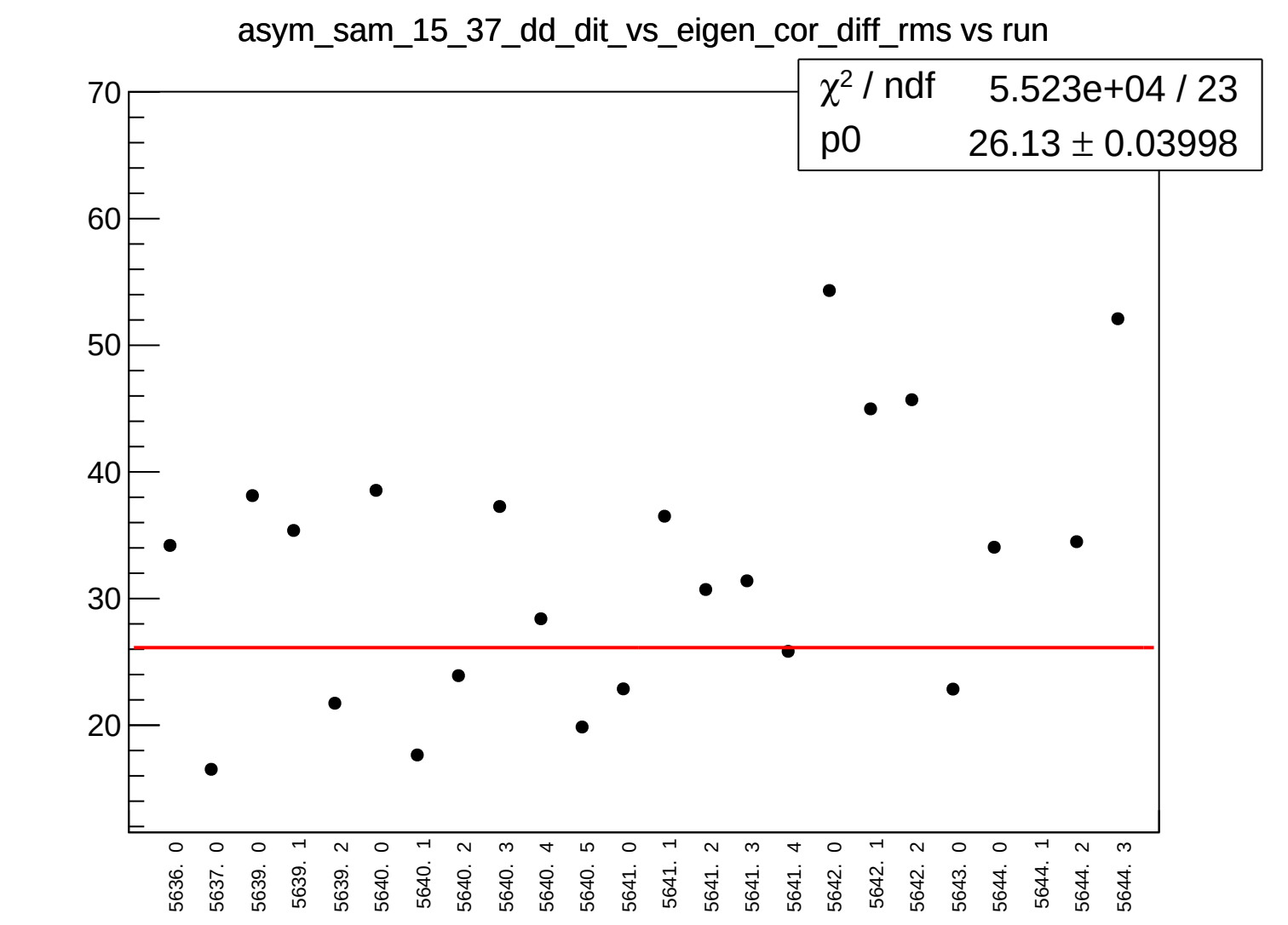

pull1D
Entries 24
Mean 0.1296
Std Dev 0.912
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

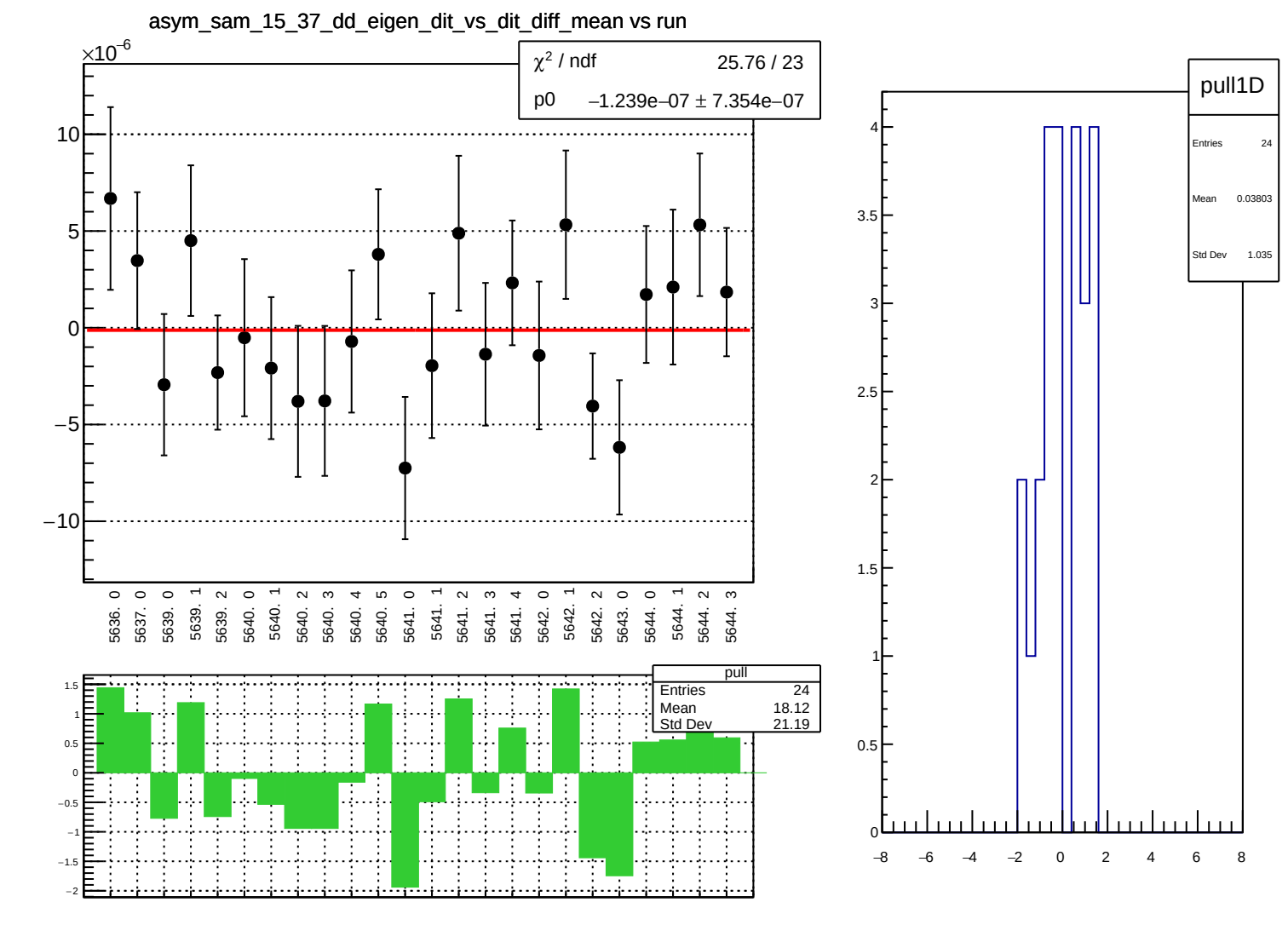

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.134e+05 / 23
p0 3.843e−11 ± 7.411e−14
0.03
0.025
0.02
0.015
0.01
0.005
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

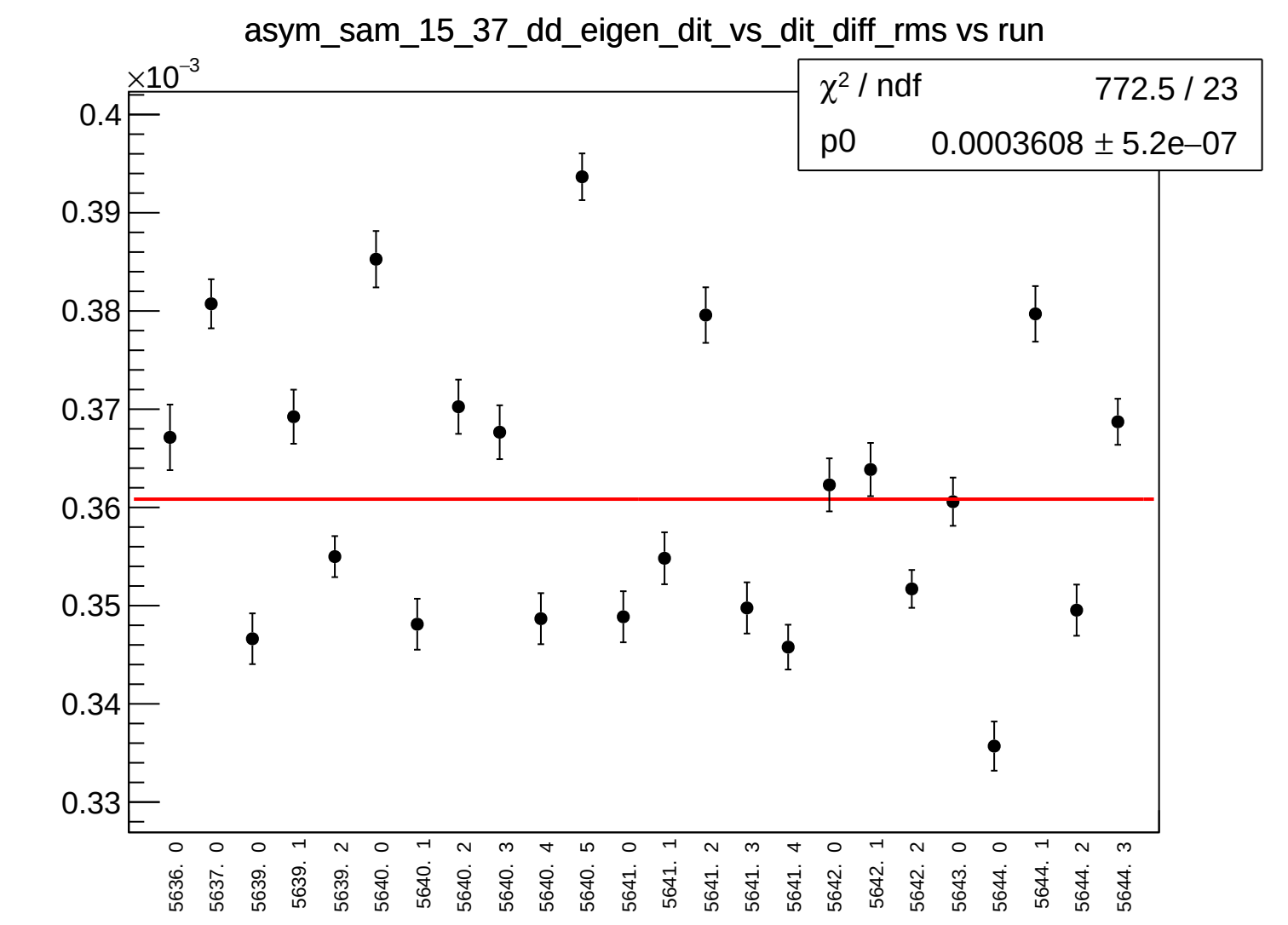

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 12.51 / 23
p0 −0.04705 ± 0.05654
1.5
1
0.5
0
−0.5
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 64.41
Std Dev 0
pull1D
Entries 24
Mean 0.01831
Std Dev 0.7218
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

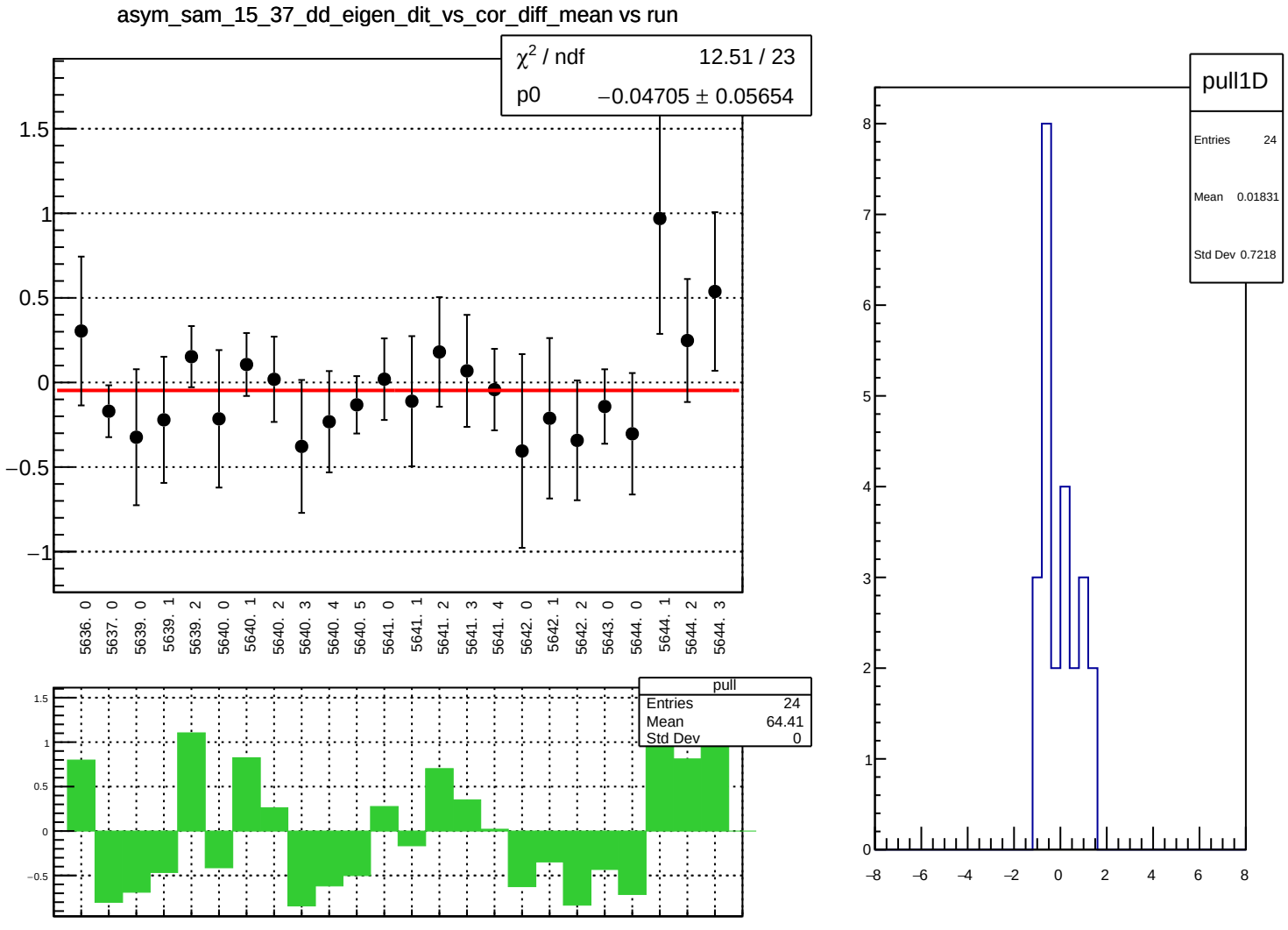

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.523e+04 / 23
p0 26.13 ± 0.03998
70
60
50
40
30
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

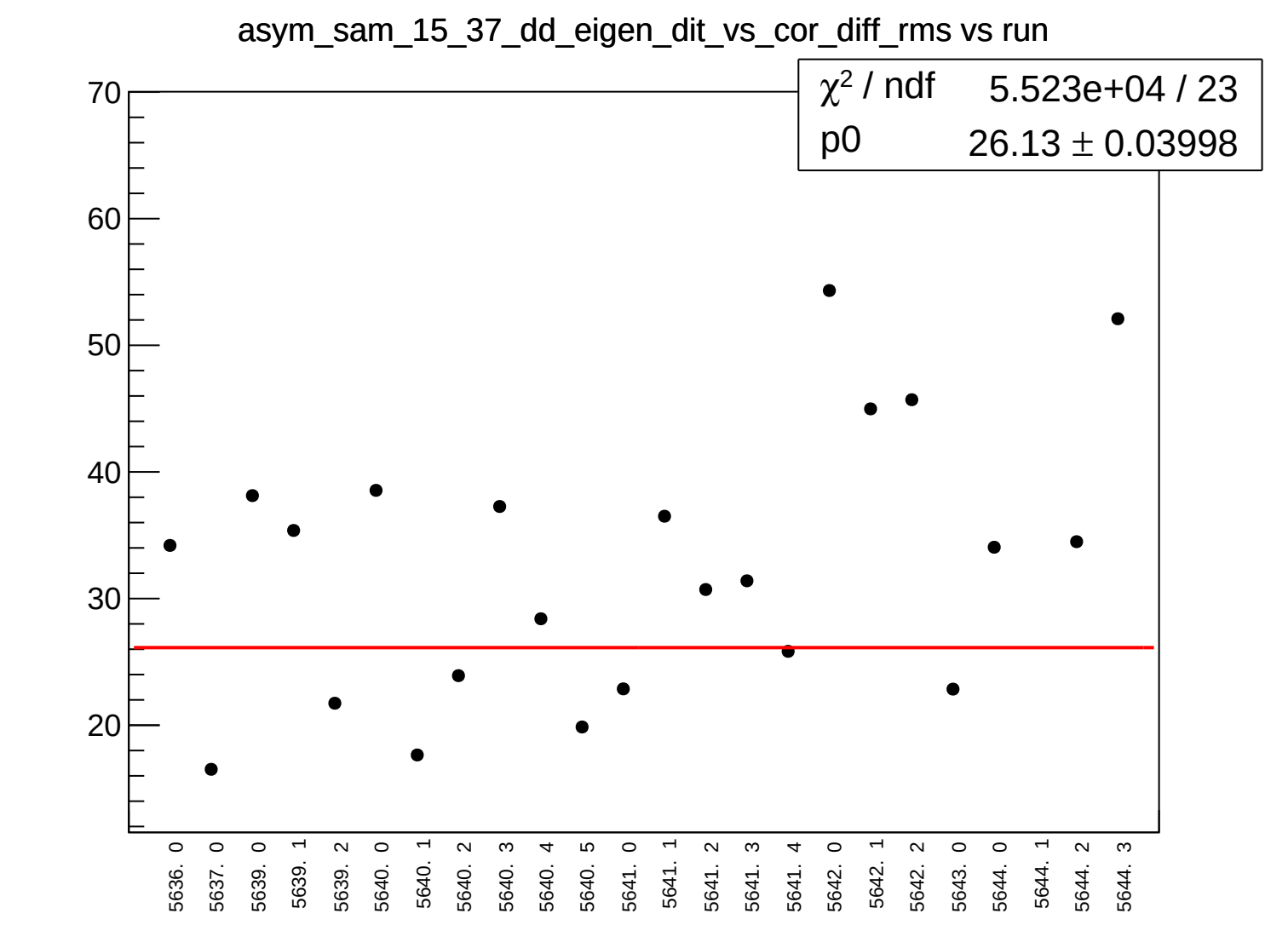

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 12.51 / 23
p0 −0.04705 ± 0.05654
1.5
1
0.5
0
−0.5
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 64.41
Std Dev 0
pull1D
Entries 24
Mean 0.01831
Std Dev 0.7218
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

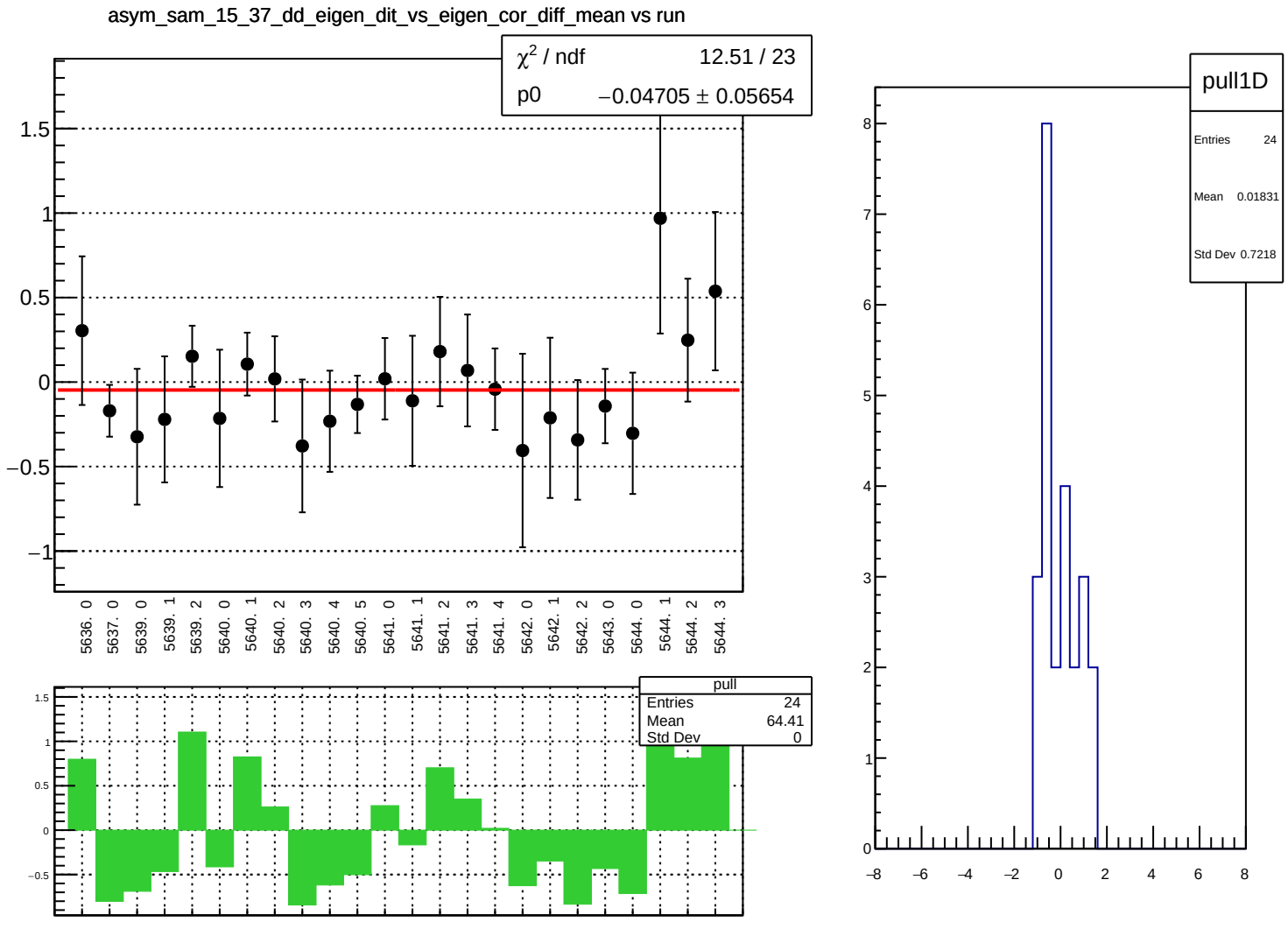

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.523e+04 / 23
p0 26.13 ± 0.03998
70
60
50
40
30
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

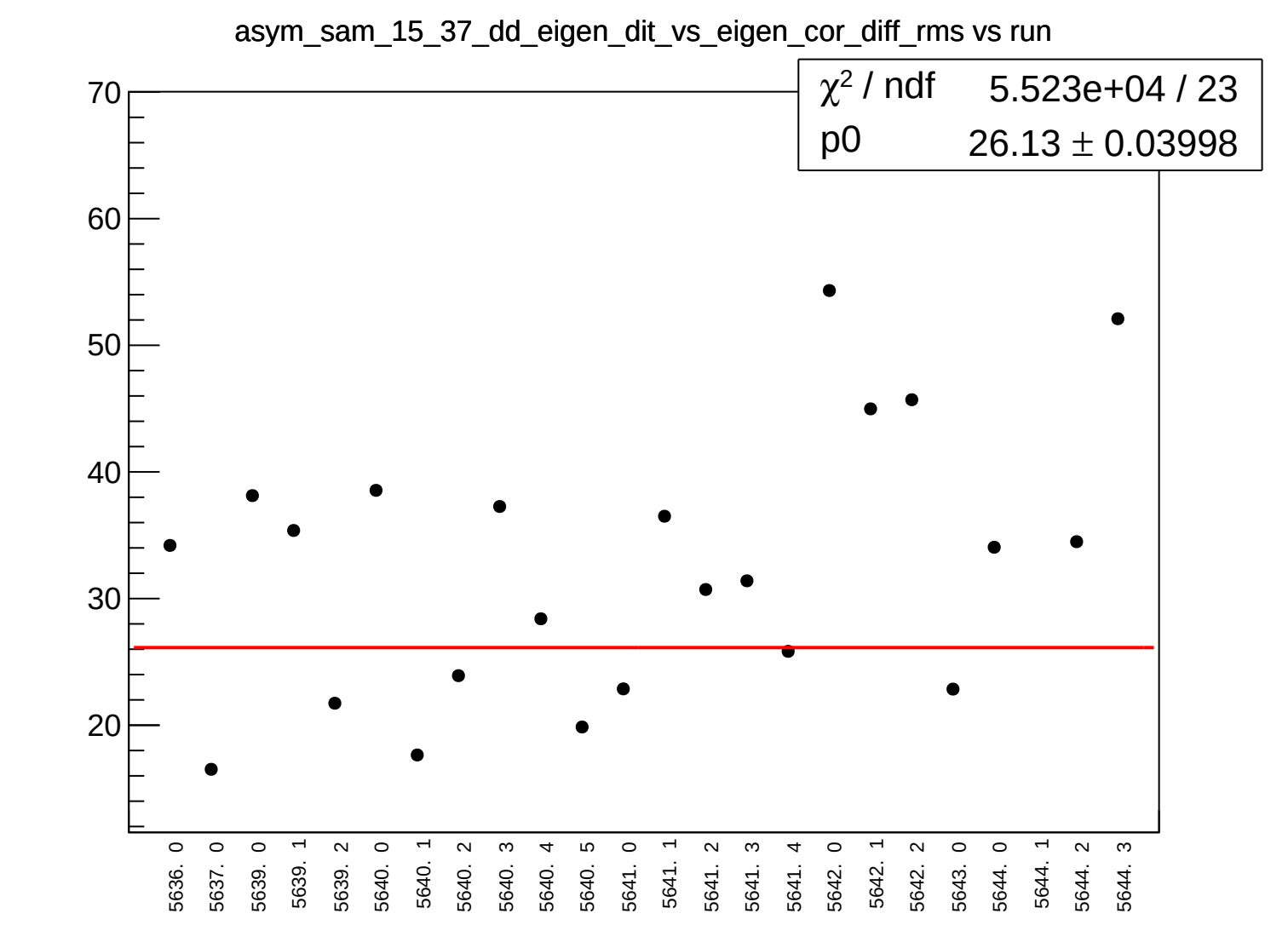

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 25.76 / 23
p0 −1.239e−07 ± 7.354e−07
10
5
0
−5
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 18.12
Std Dev 21.19
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.03803
Std Dev 1.035
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

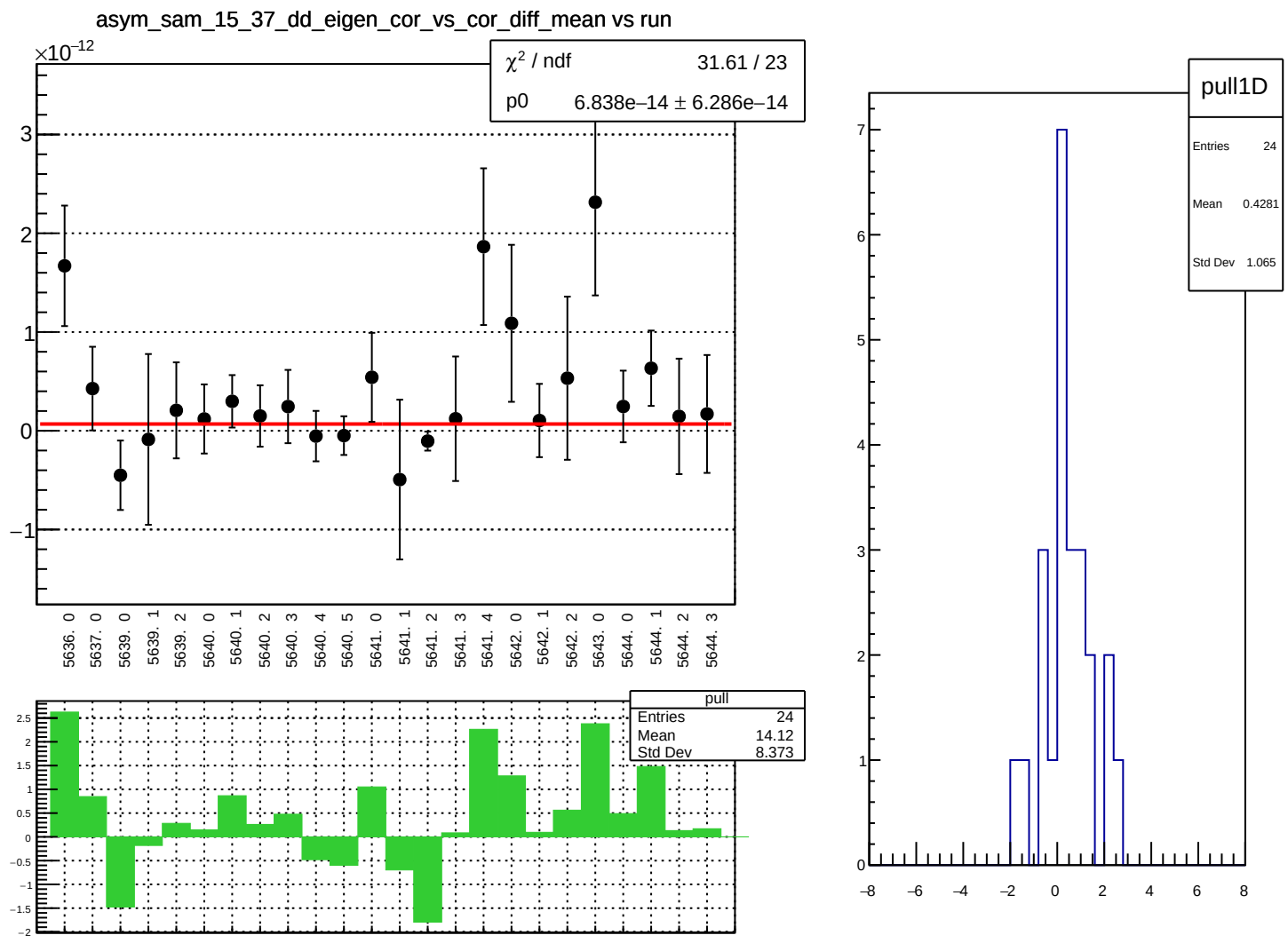

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 772.5 / 23
p0 0.0003608 ± 5.2e–07
0.4
0.39
0.38
0.37
0.36
0.35
0.34
0.33
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

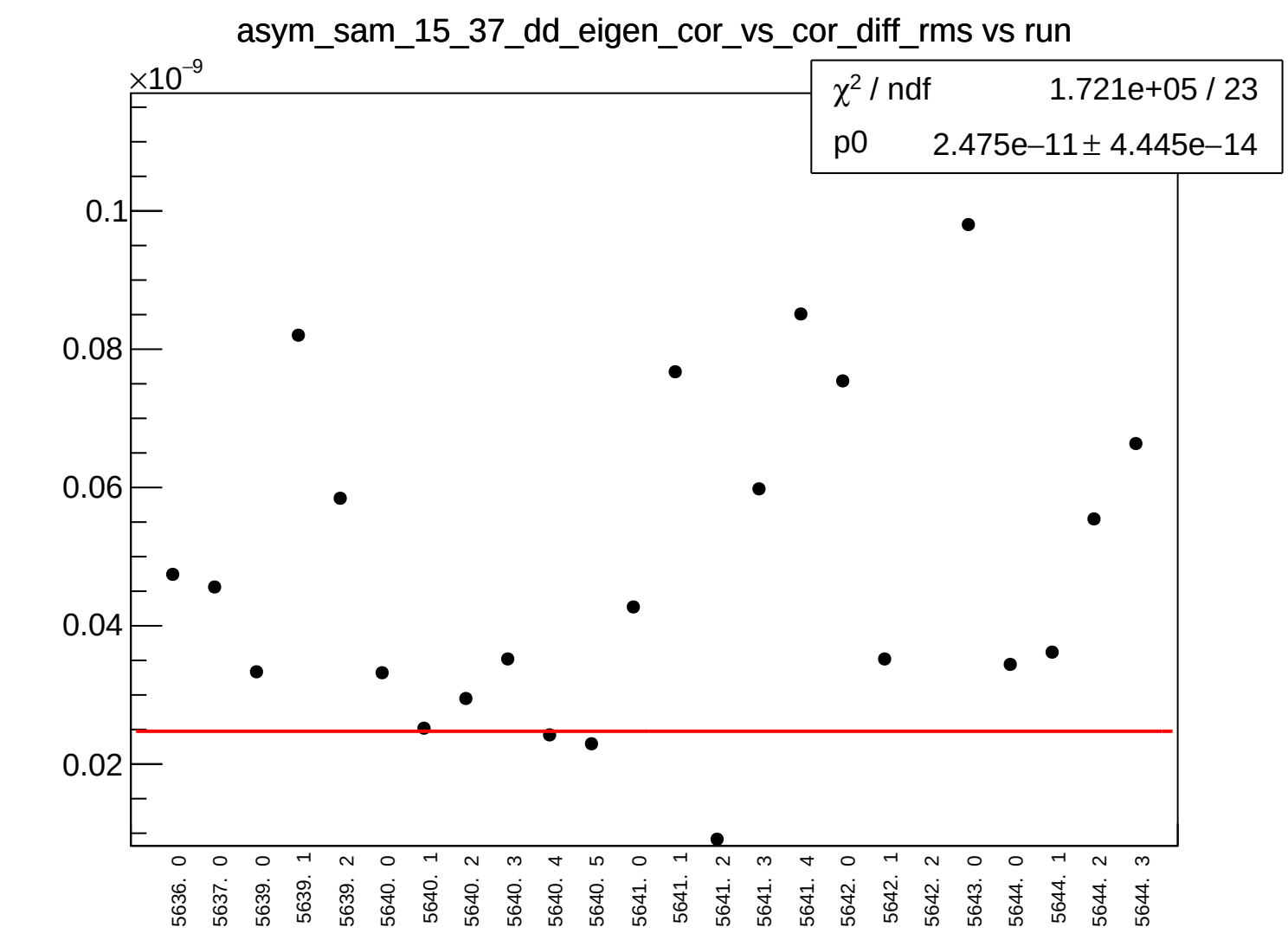

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 12.51 / 23
p0 −0.04705 ± 0.05654
1.5
1
0.5
0
−0.5
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 64.41
Std Dev 0
pull1D
Entries 24
Mean 0.01831
Std Dev 0.7218
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

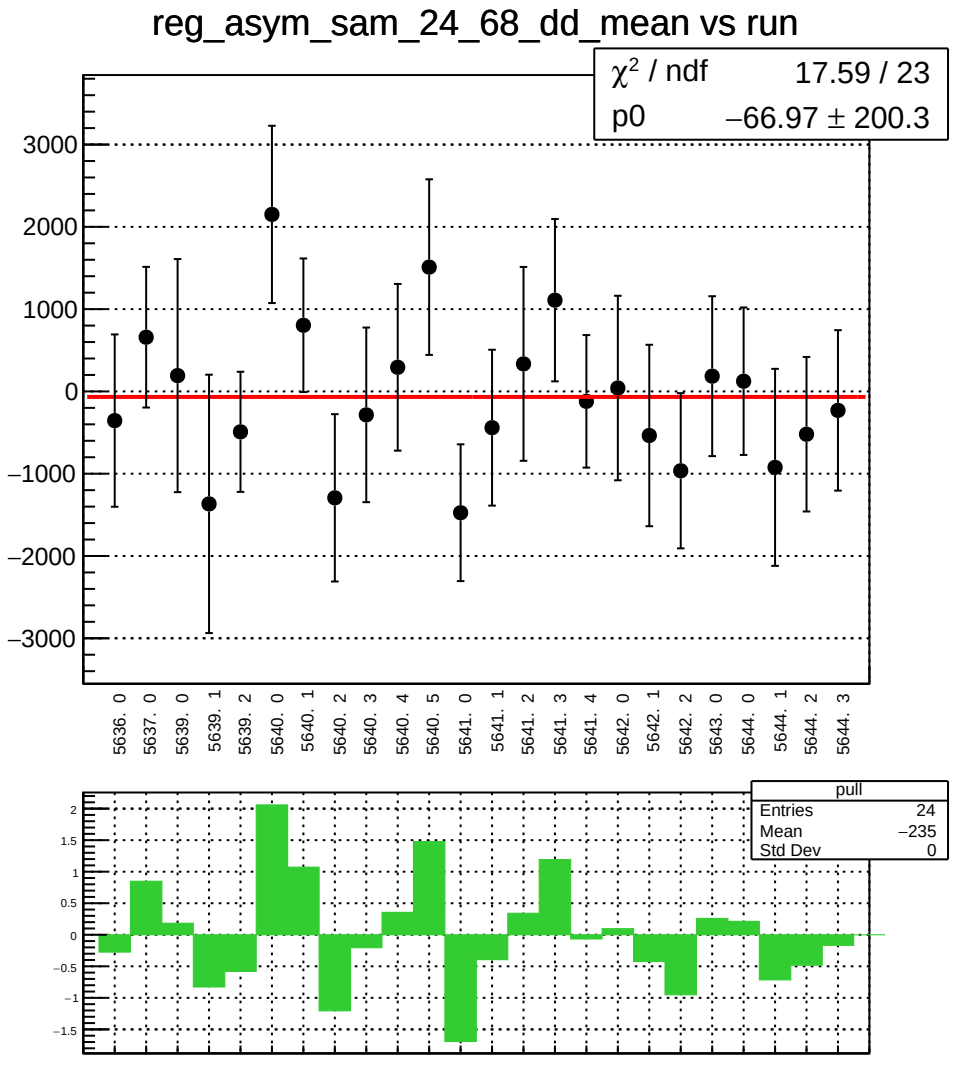

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.523e+04 / 23
p0 26.13 ± 0.03998
70
60
50
40
30
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

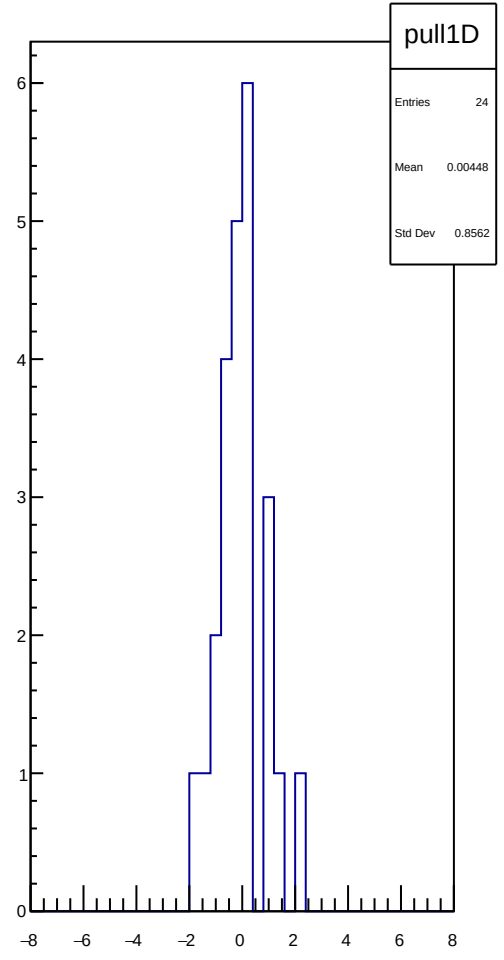

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 12.51 / 23
p0 −0.04705 ± 0.05654
1.5
1
0.5
0
−0.5
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 64.41
Std Dev 0
pull1D
Entries 24
Mean 0.01831
Std Dev 0.7218
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

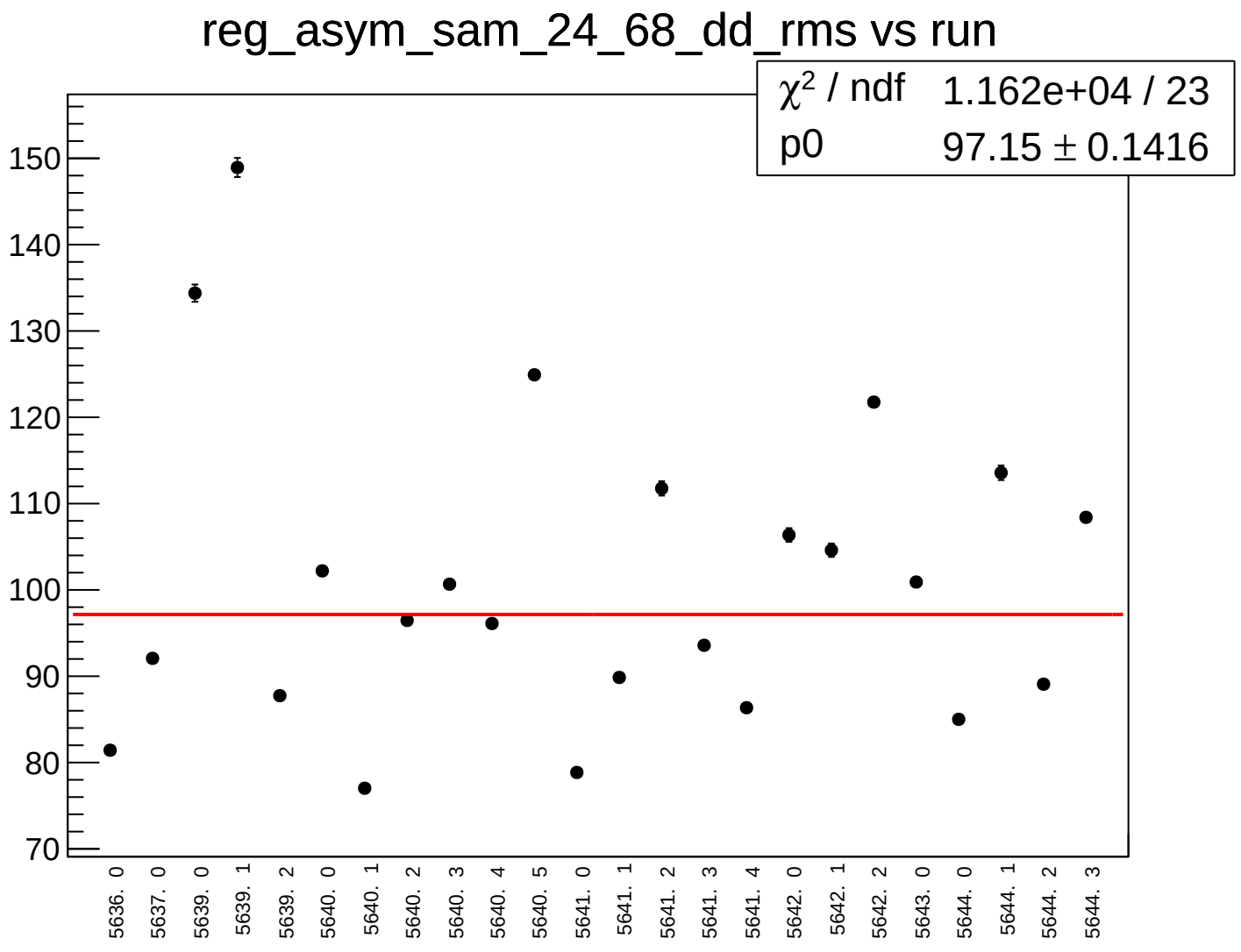

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ2 / ndf 5.523e+04 / 23
p0 26.13 ± 0.03998
70
60
50
40
30
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

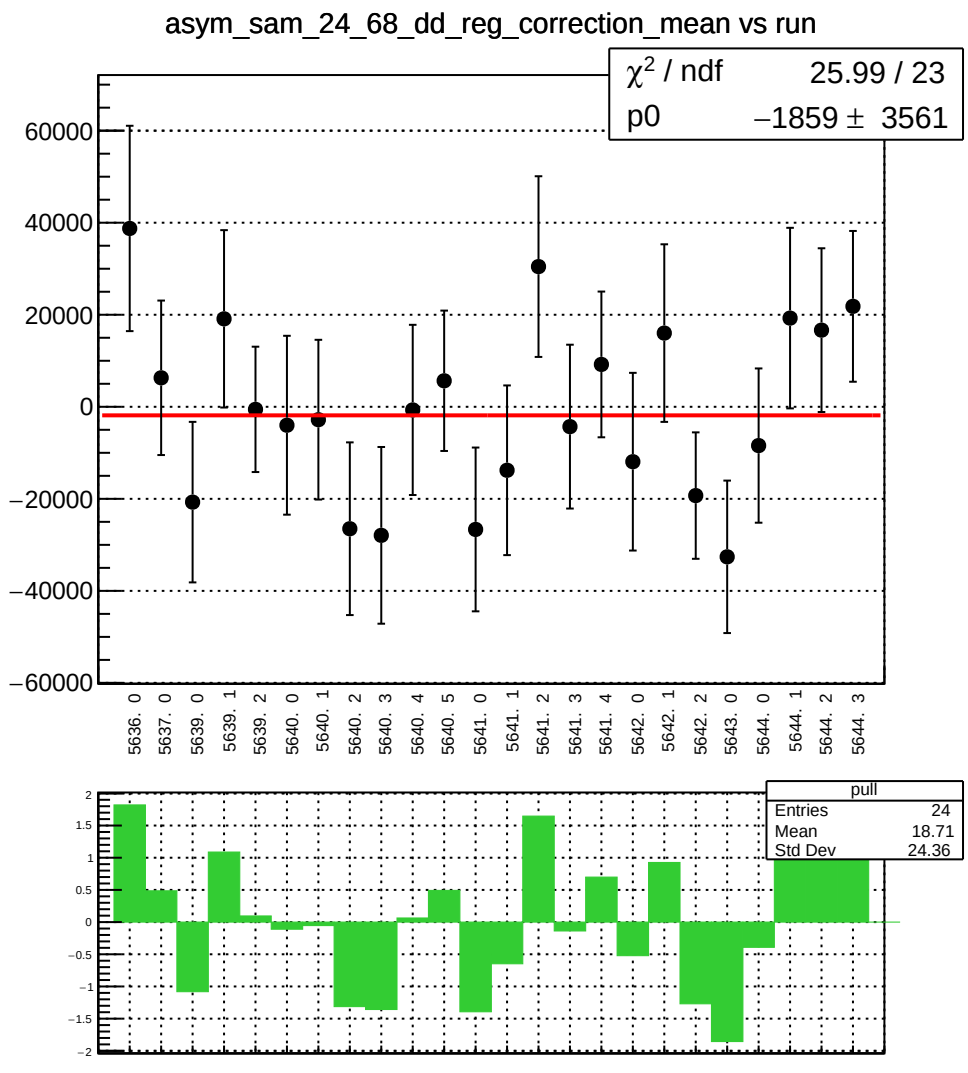

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 31.61 / 23
p0 6.838e−14 ± 6.286e−14
3
2
1
0
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 14.12
Std Dev 8.373
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.4281
Std Dev 1.065
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

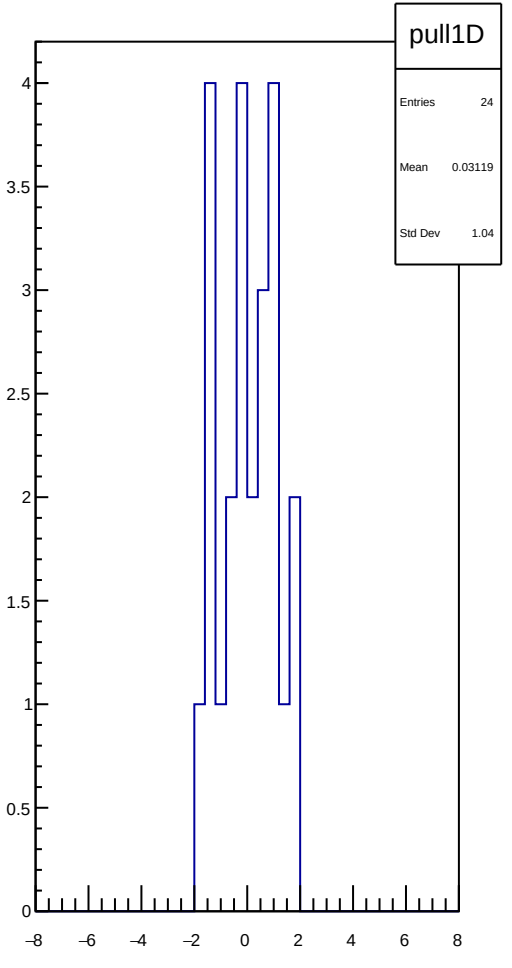

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.721e+05 / 23
p0 2.475e−11 ± 4.445e−14
0.1
0.08
0.06
0.04
0.02
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

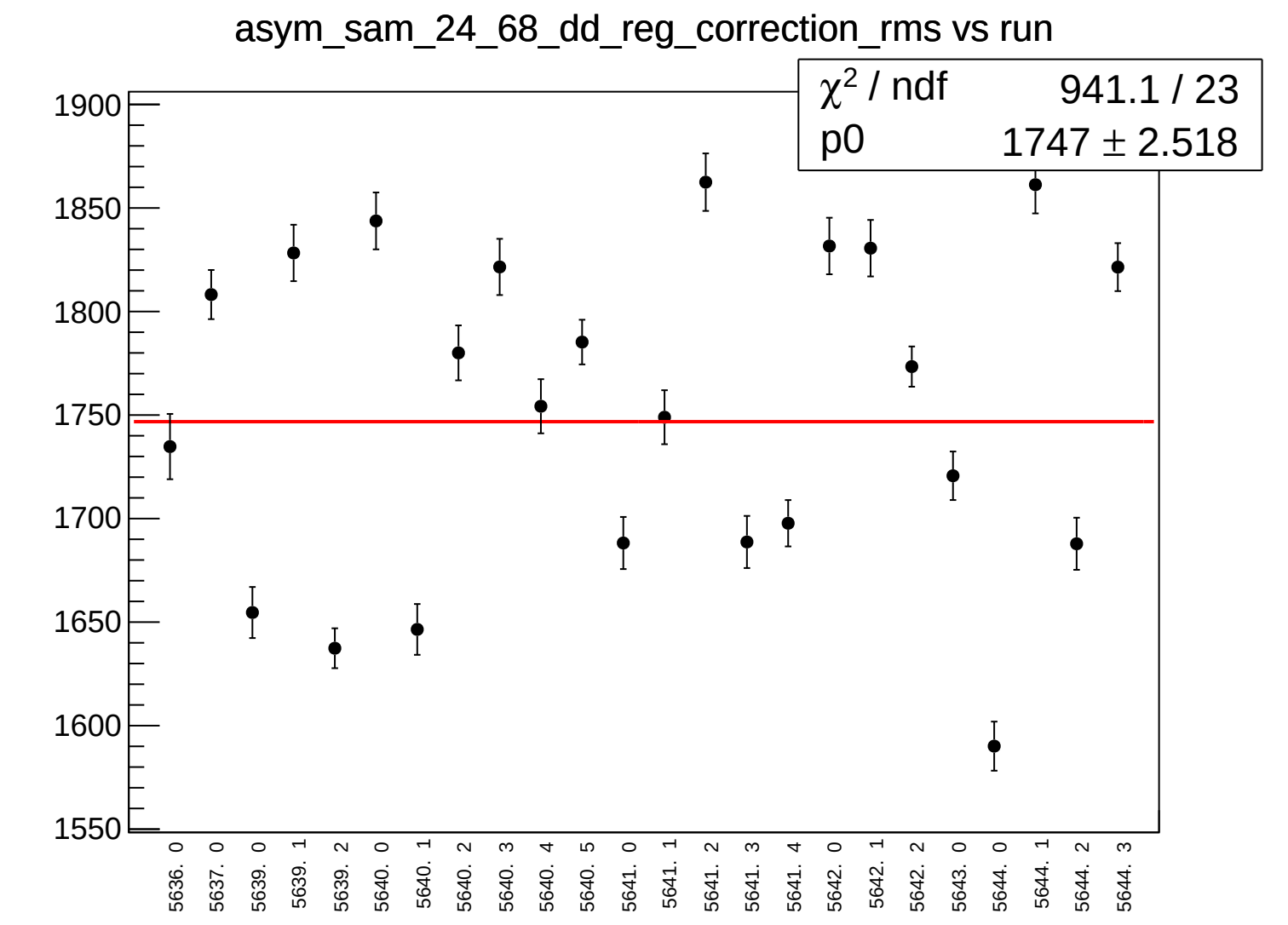

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 17.59 / 23
p0 −66.97 ± 200.3
3000
2000
1000
0
−1000
−2000
−3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −235
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

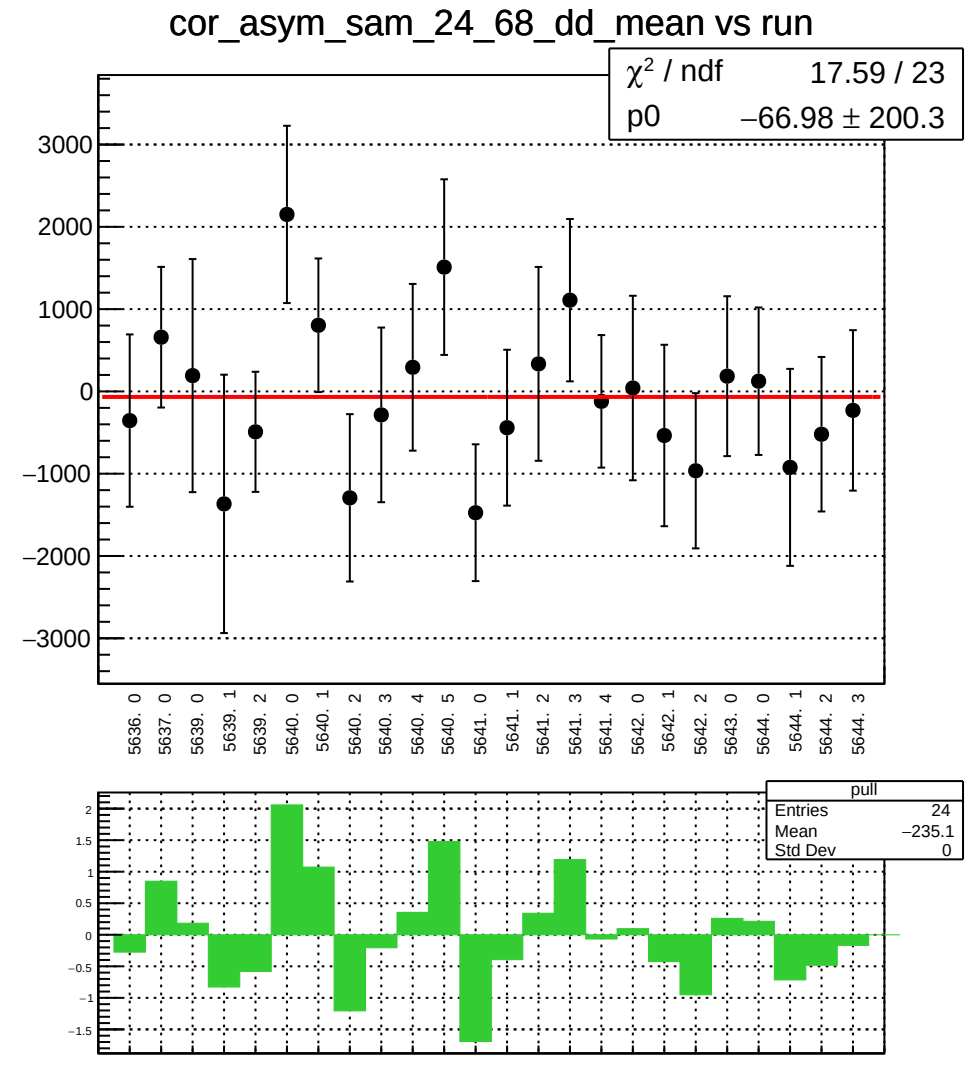

pull1D
Entries 24
Mean 0.00448
Std Dev 0.8562
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

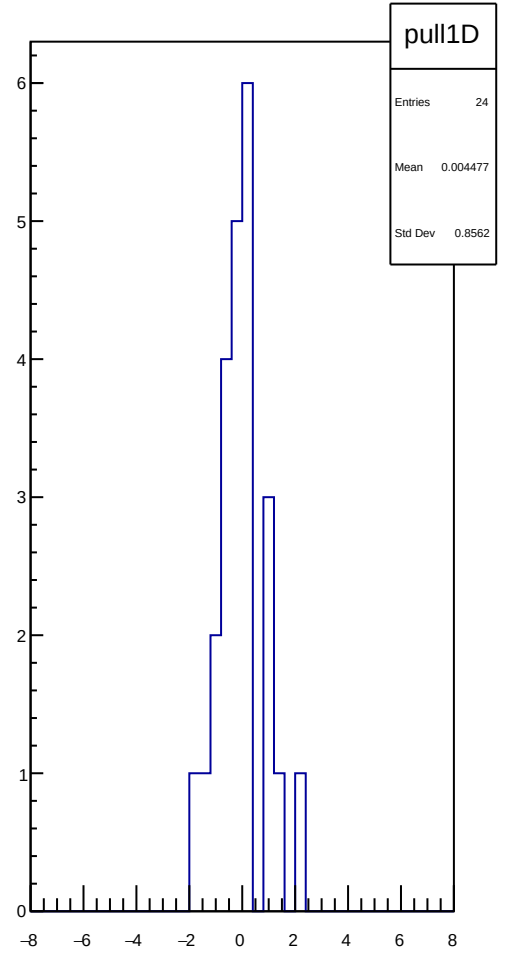

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.162e+04 / 23
p0 97.15 ± 0.1416
150
140
130
120
110
100
90
80
70
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

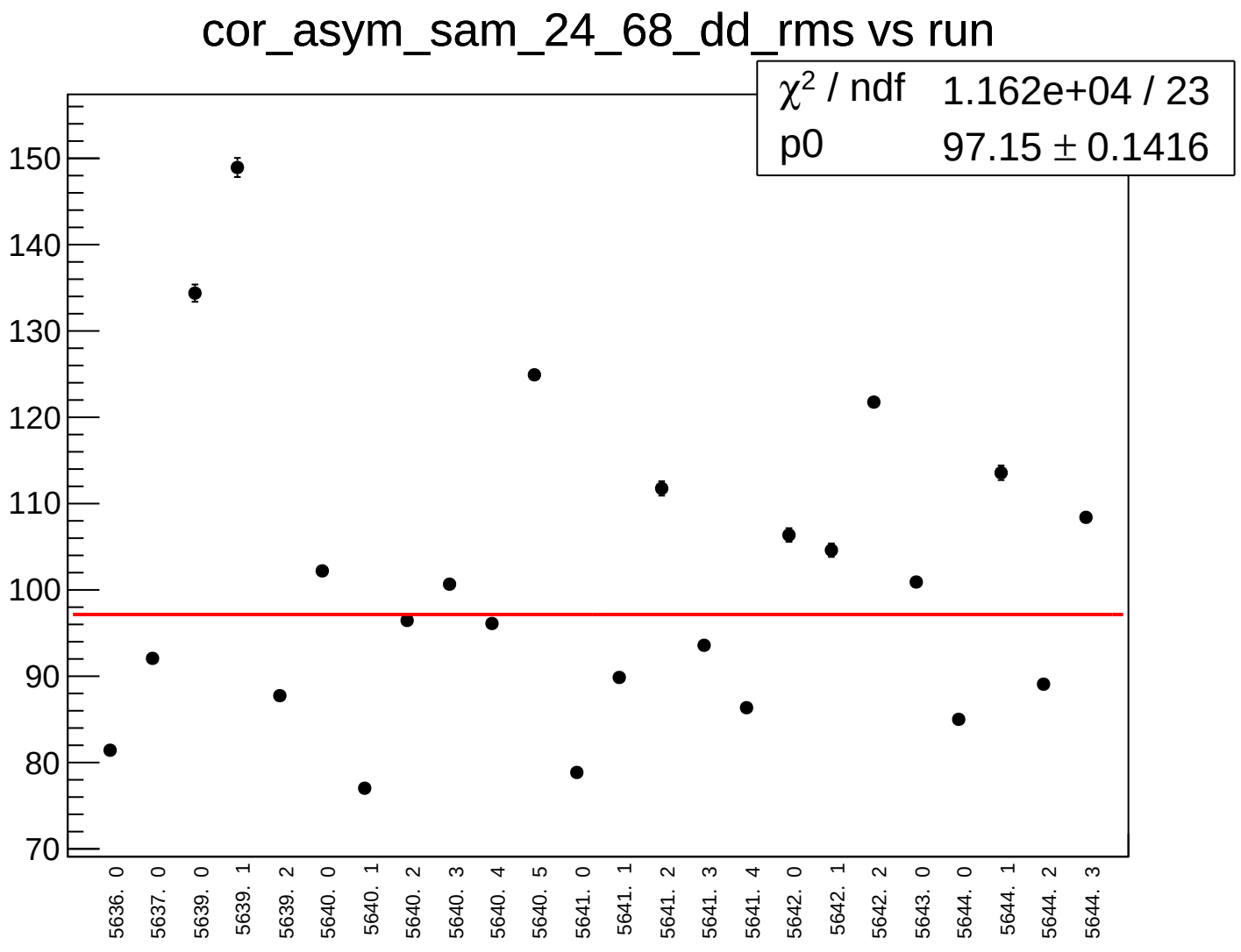

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 25.99 / 23
p0 −1859 ± 3561
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 18.71
Std Dev 24.36
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

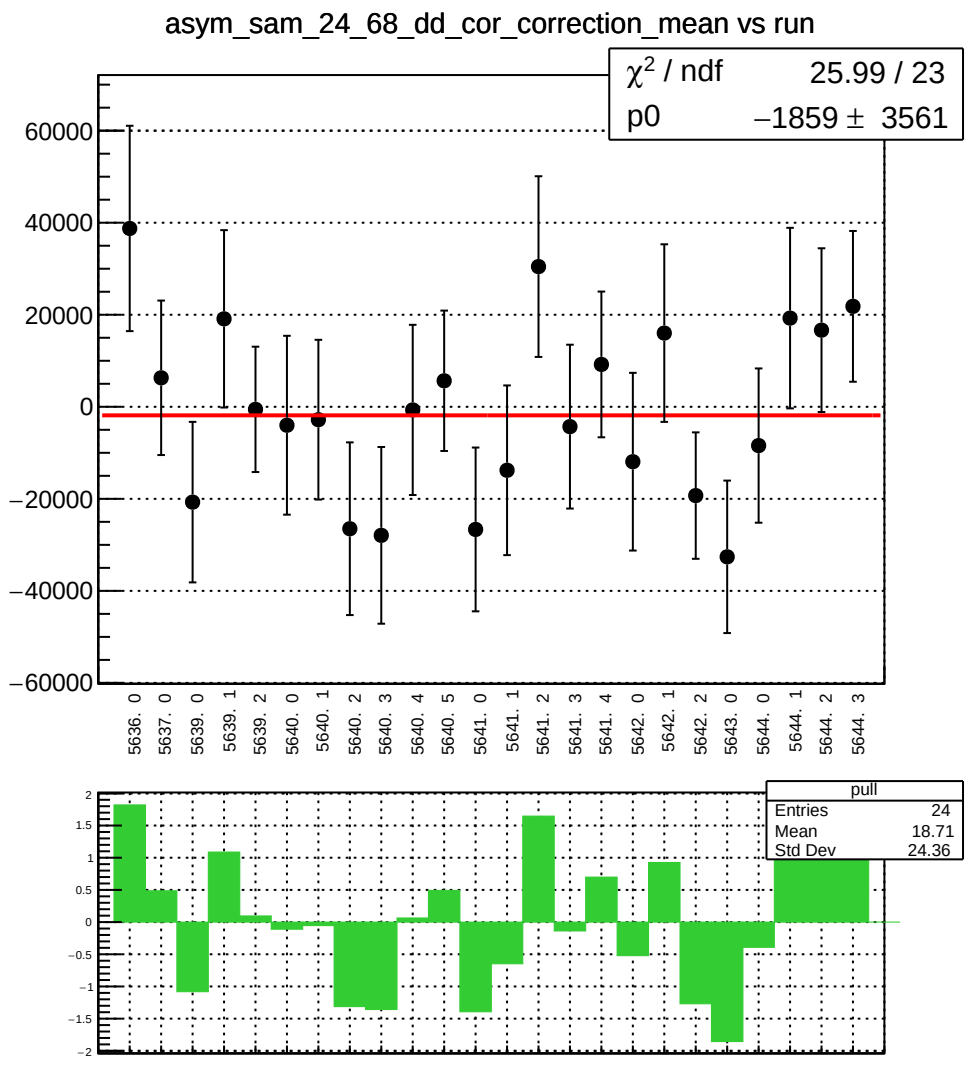

pull1D
Entries 24
Mean 0.03119
Std Dev 1.04
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

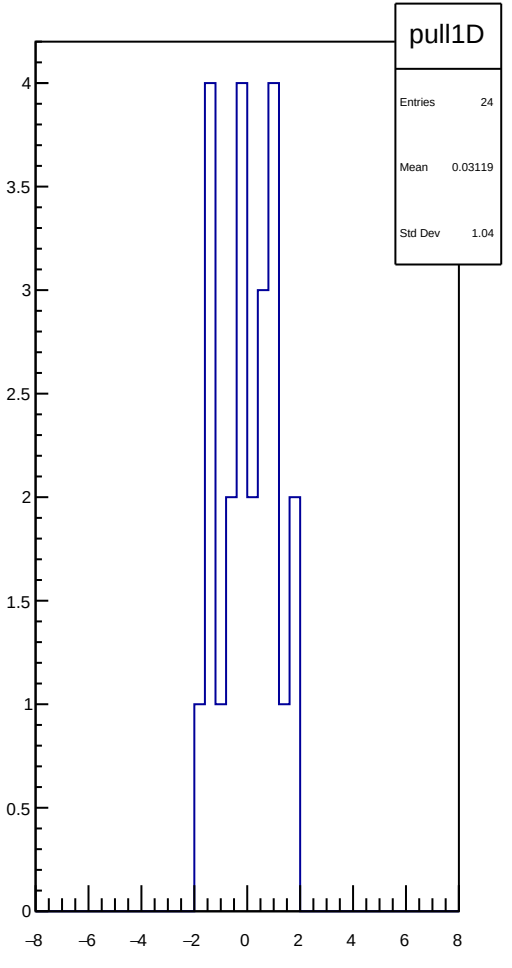

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 941.1 / 23
p0 1747 ± 2.518
1900
1850
1800
1750
1700
1650
1600
1550
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

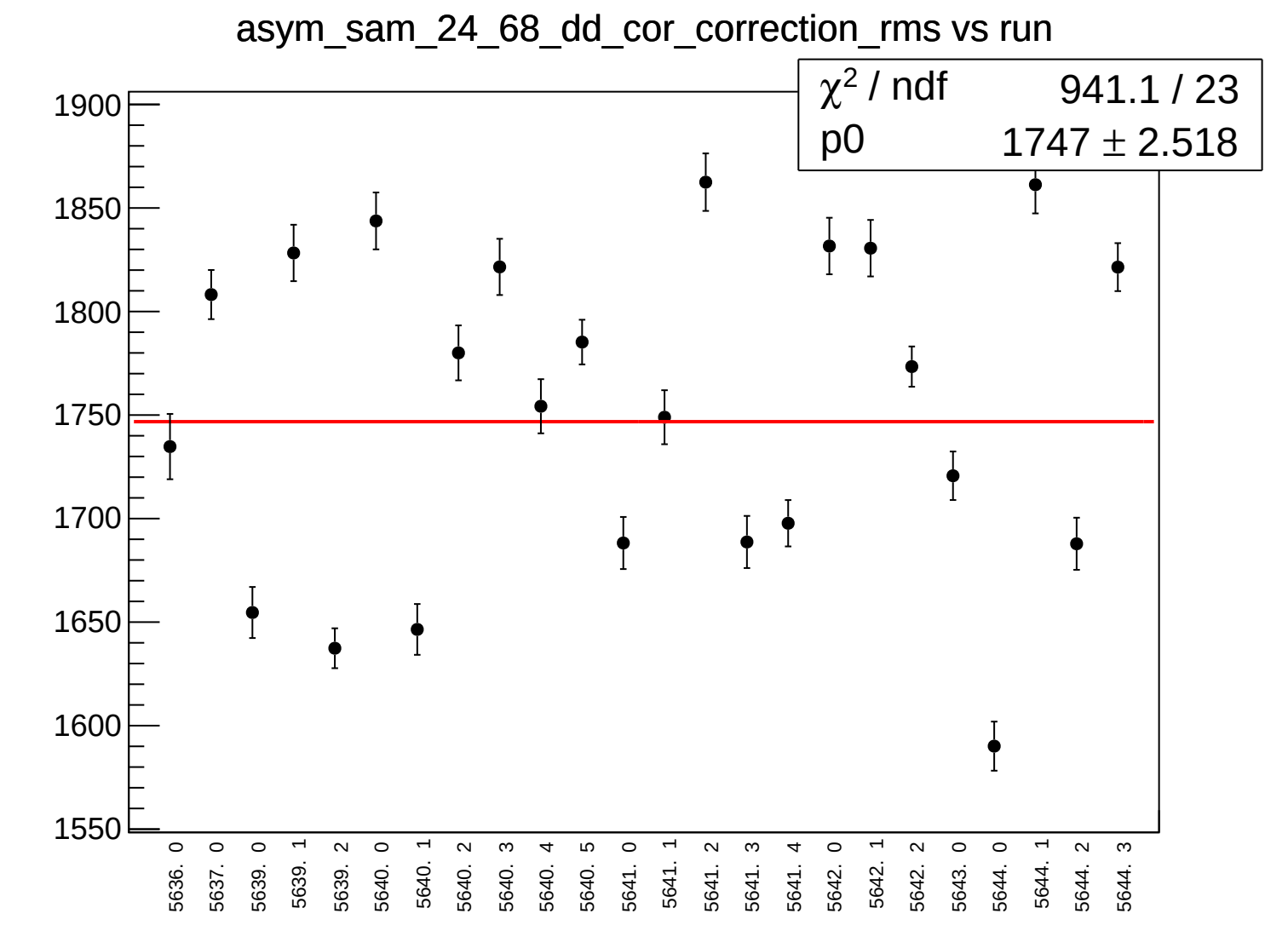

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 17.59 / 23
p0 −66.98 ± 200.3
3000
2000
1000
0
−1000
−2000
−3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −235.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

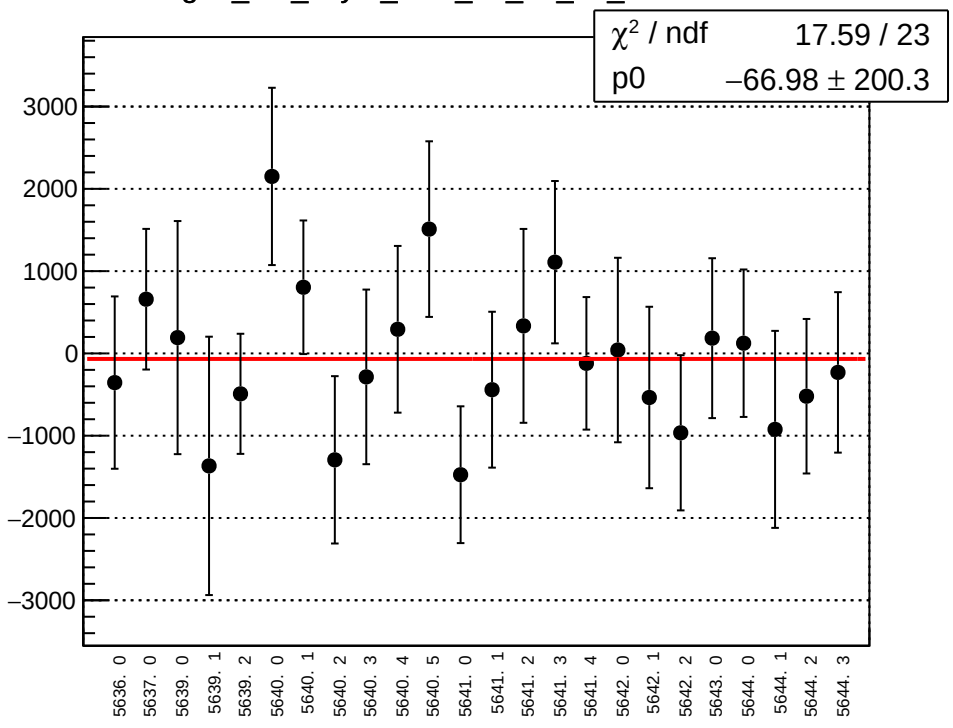

pull1D
Entries 24
Mean 0.004477
Std Dev 0.8562
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

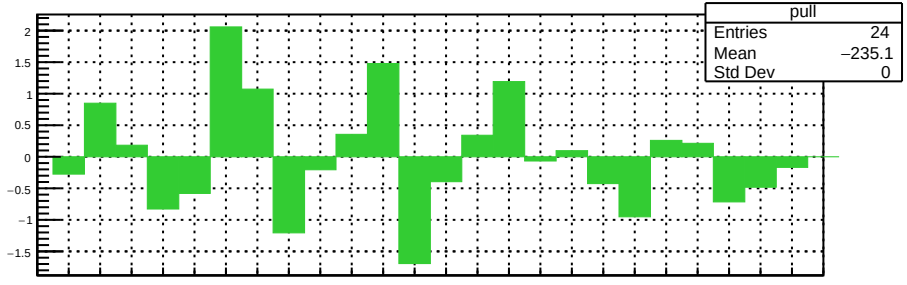

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.162e+04 / 23
p0 97.15 ± 0.1416
150
140
130
120
110
100
90
80
70
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

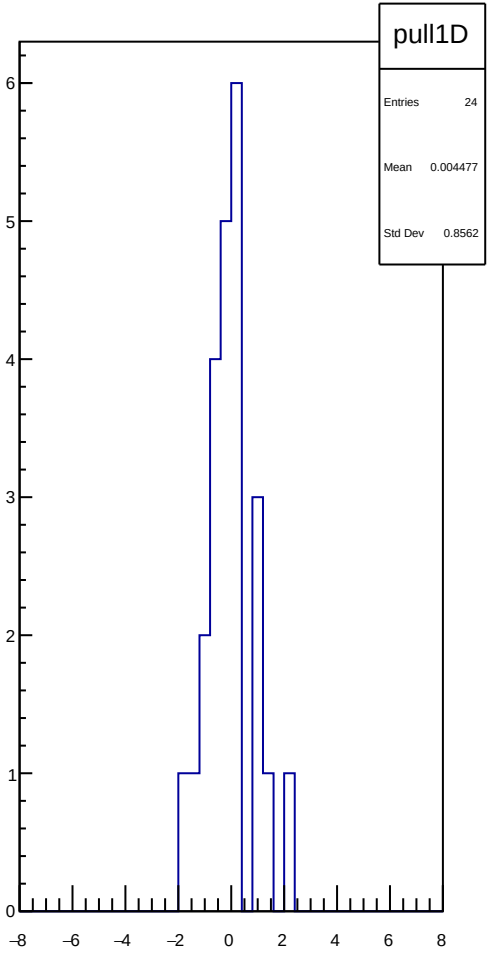

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 25.99 / 23
p0 −1859 ± 3561
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 18.71
Std Dev 24.36
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

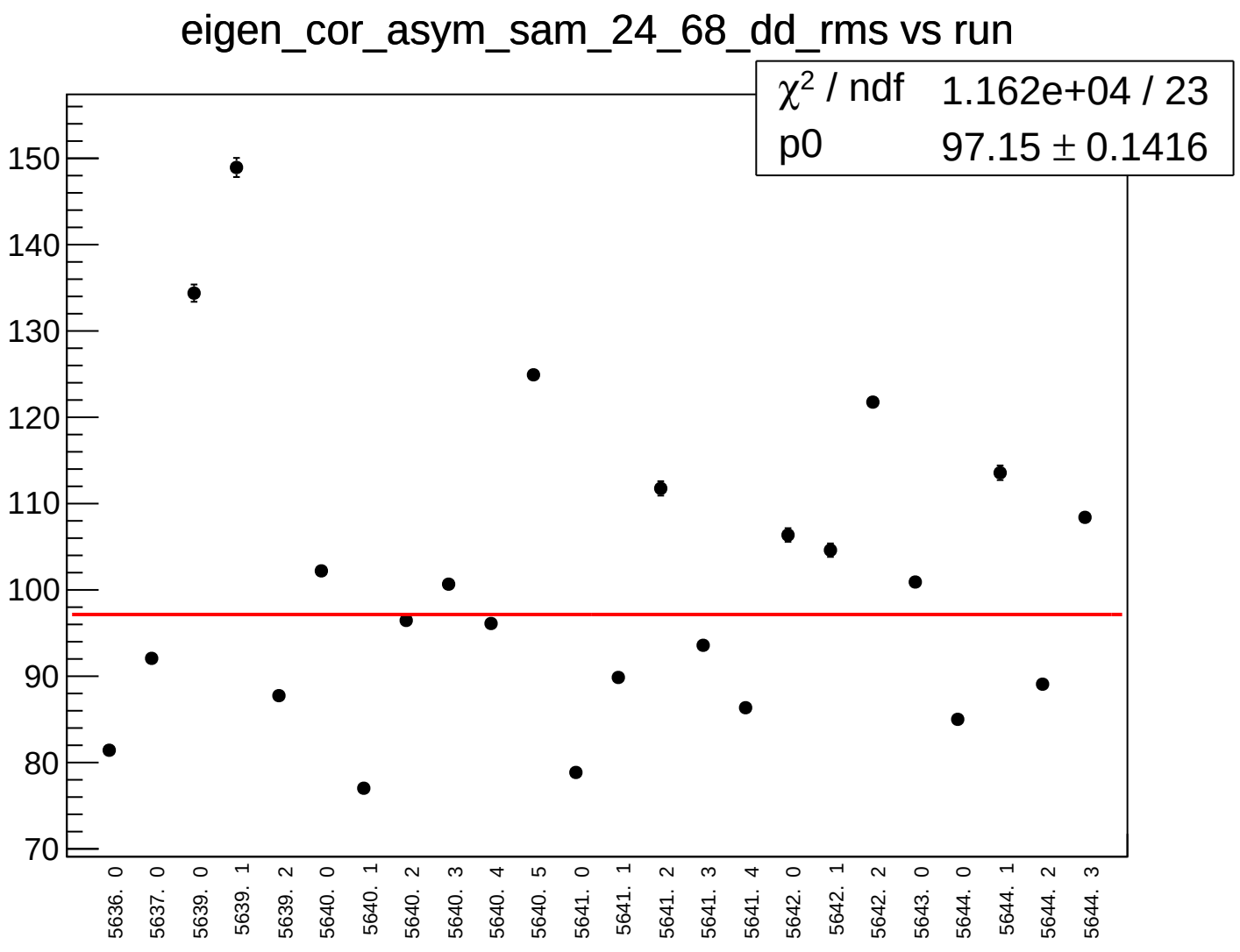

pull1D
Entries 24
Mean 0.03119
Std Dev 1.04
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

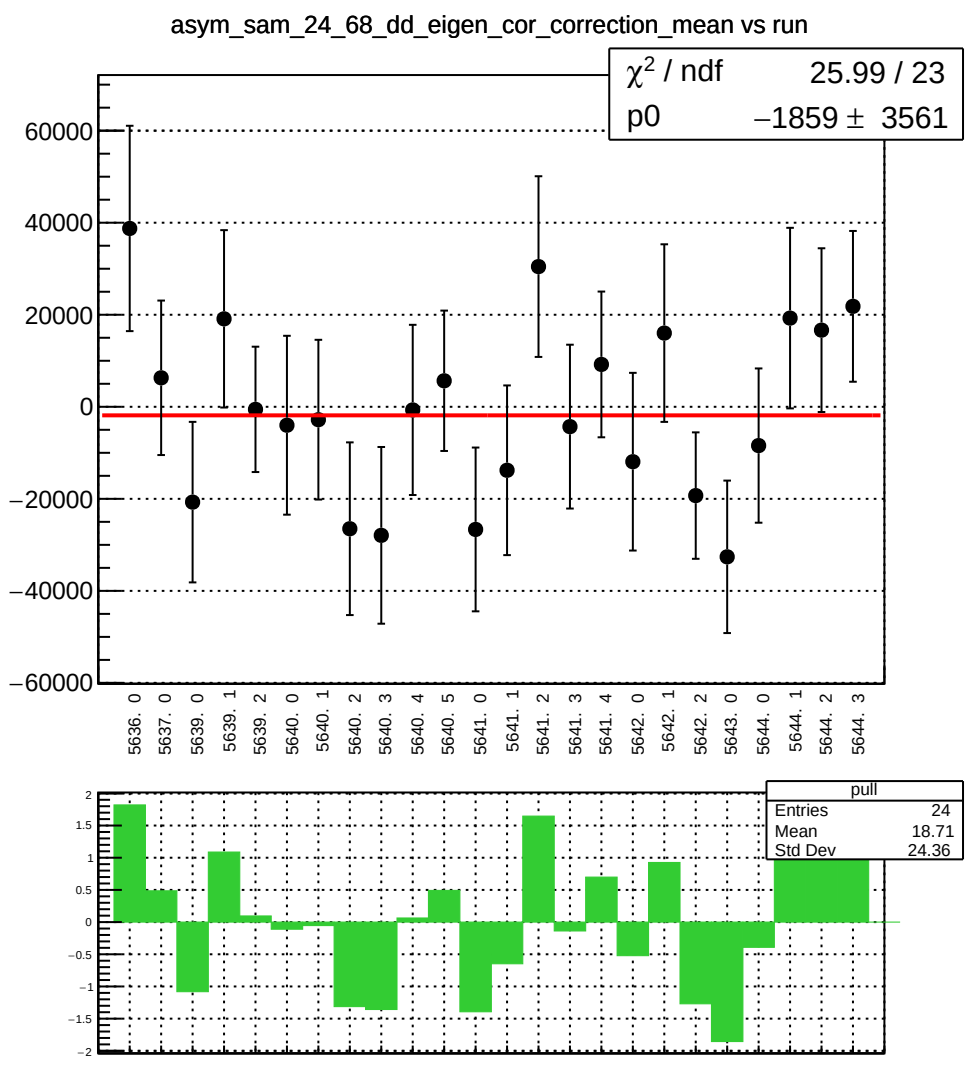

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 941.1 / 23
p0 1747 ± 2.518
1900
1850
1800
1750
1700
1650
1600
1550
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

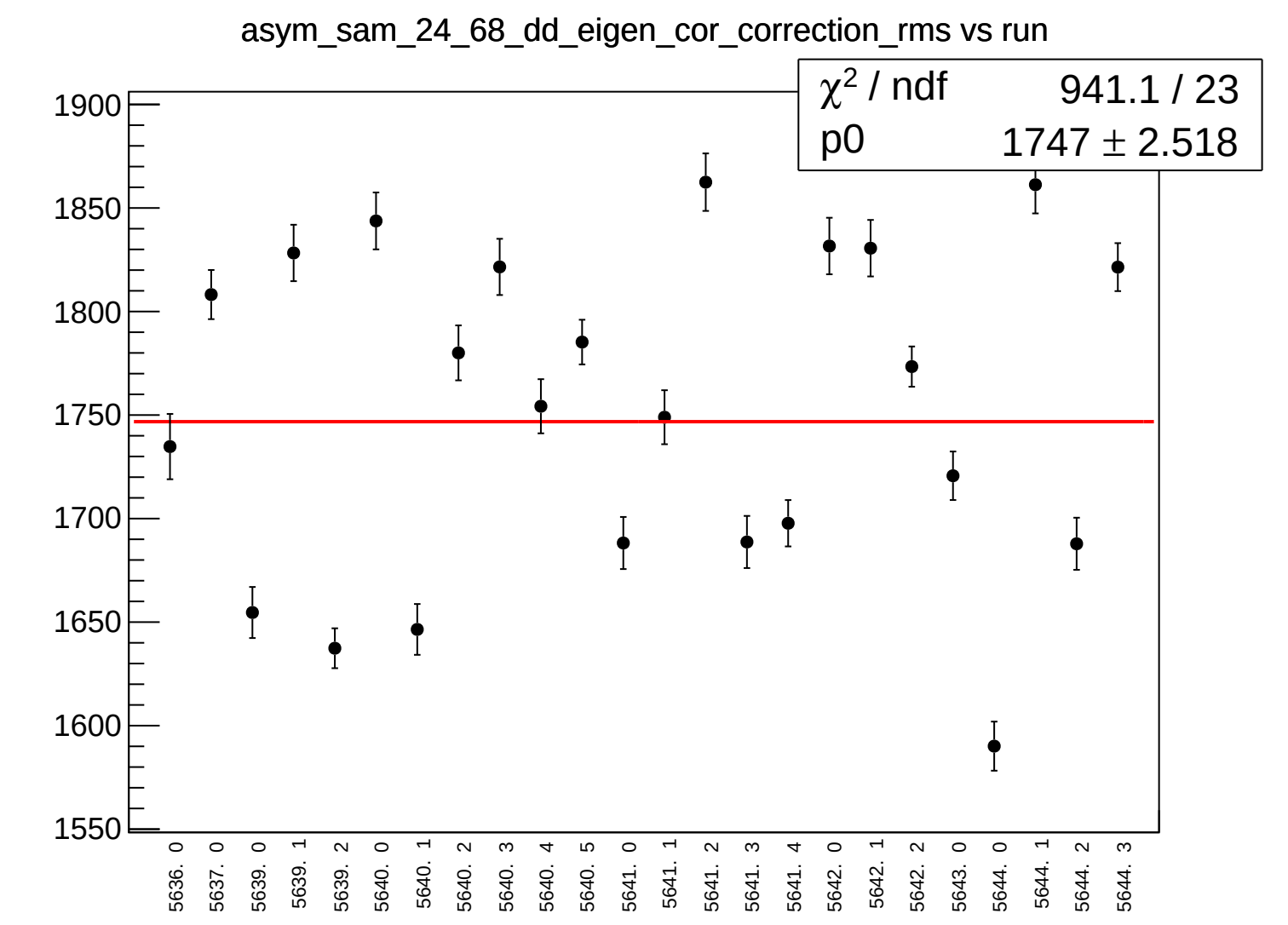

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 17.59 / 23
p0 −66.98 ± 200.3
3000
2000
1000
0
−1000
−2000
−3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

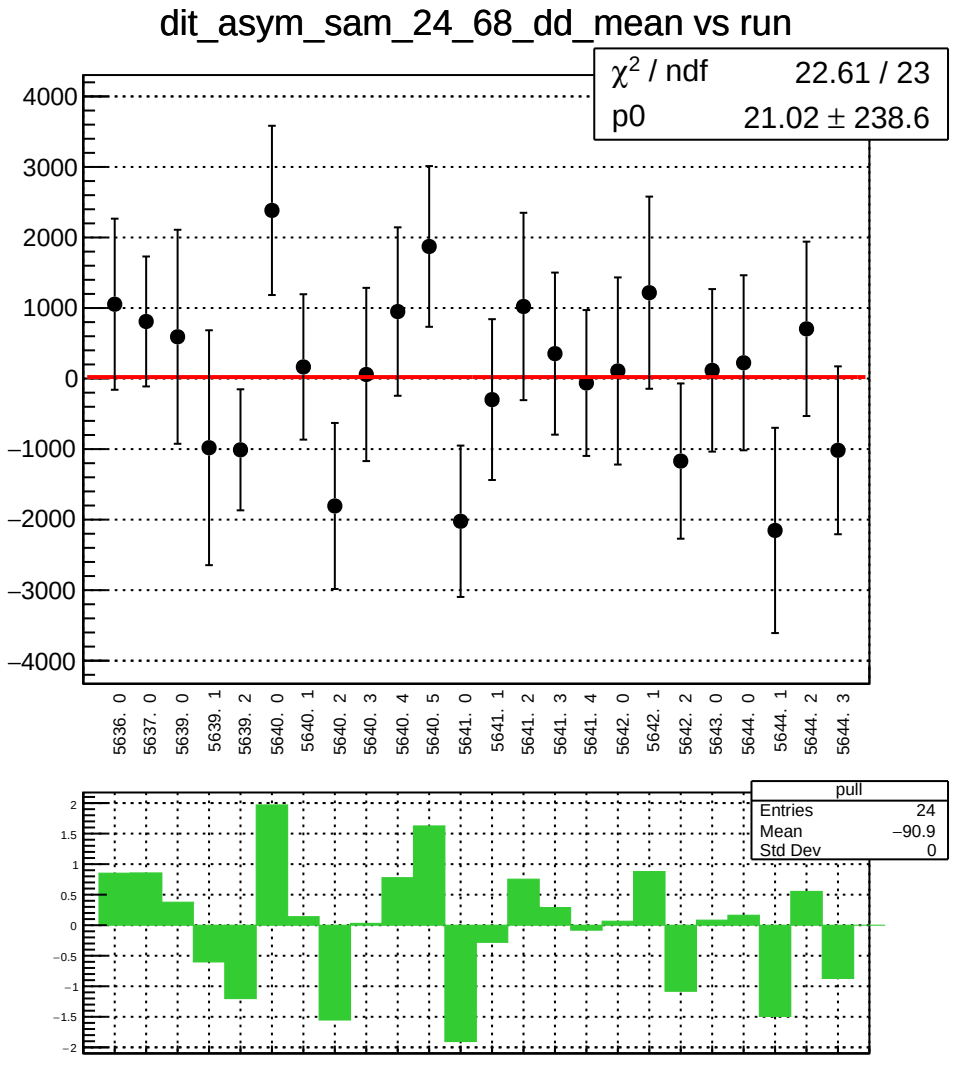

pull
Entries 24
Mean −235.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

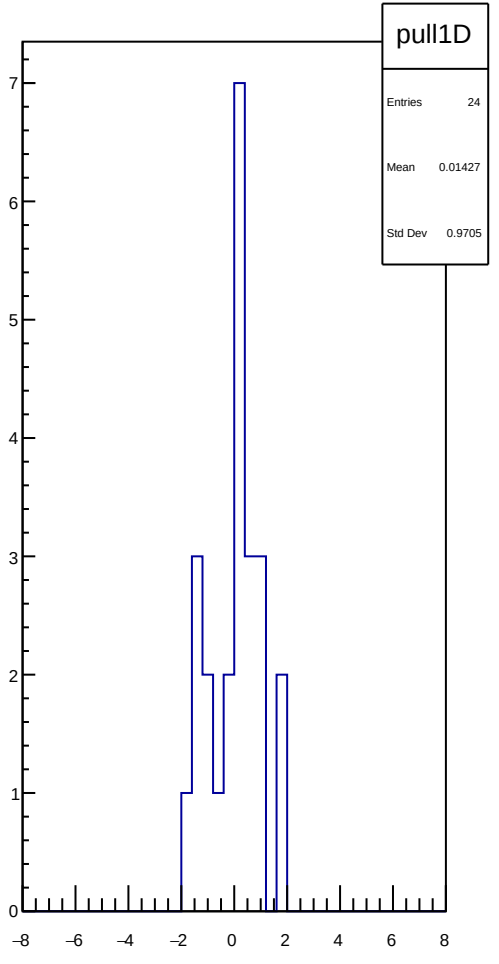

pull1D
Entries 24
Mean 0.004477
Std Dev 0.8562
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

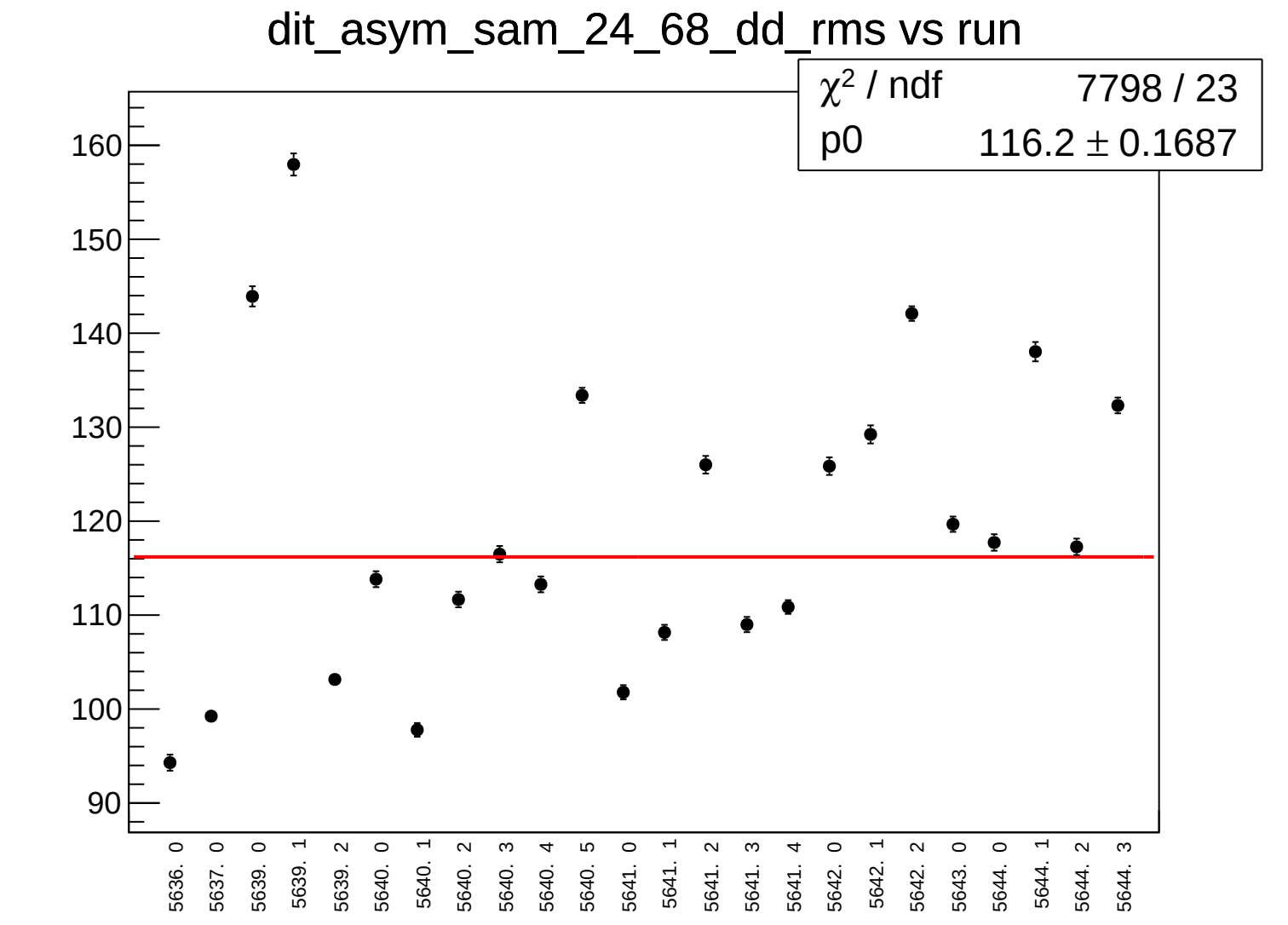

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.162e+04 / 23
p0 97.15 ± 0.1416
150
140
130
120
110
100
90
80
70
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

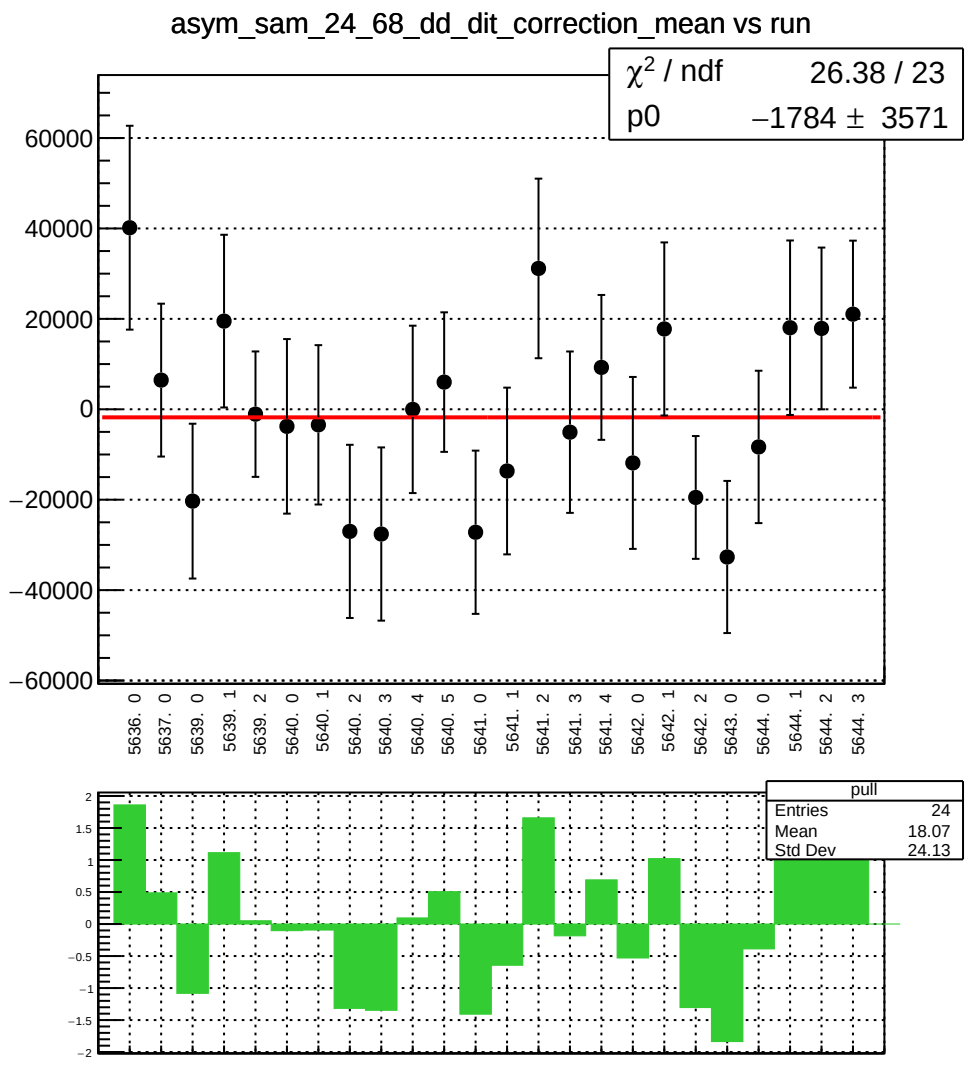

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ² / ndf 25.99 / 23
p0 −1859 ± 3561
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 18.71
Std Dev 24.36
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.03119
Std Dev 1.04
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

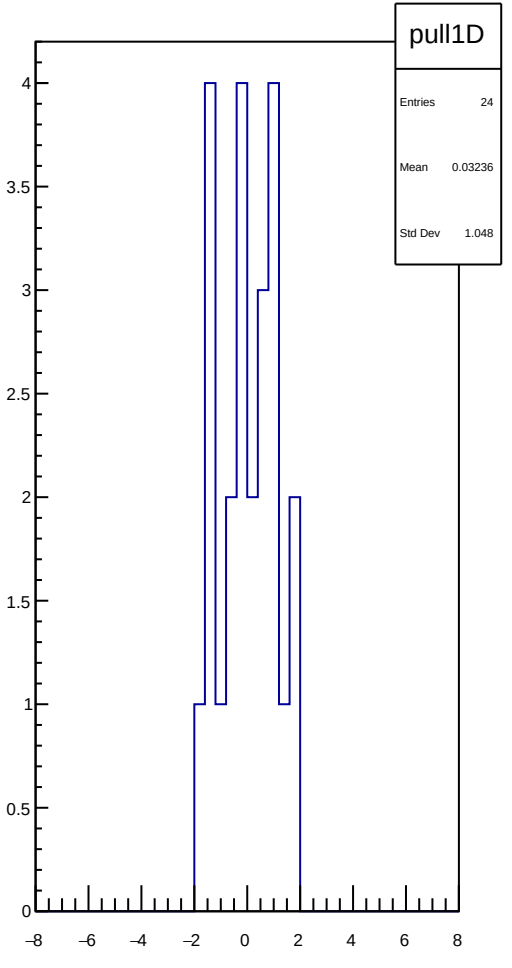

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 941.1 / 23
p0 1747 ± 2.518
1900
1850
1800
1750
1700
1650
1600
1550
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

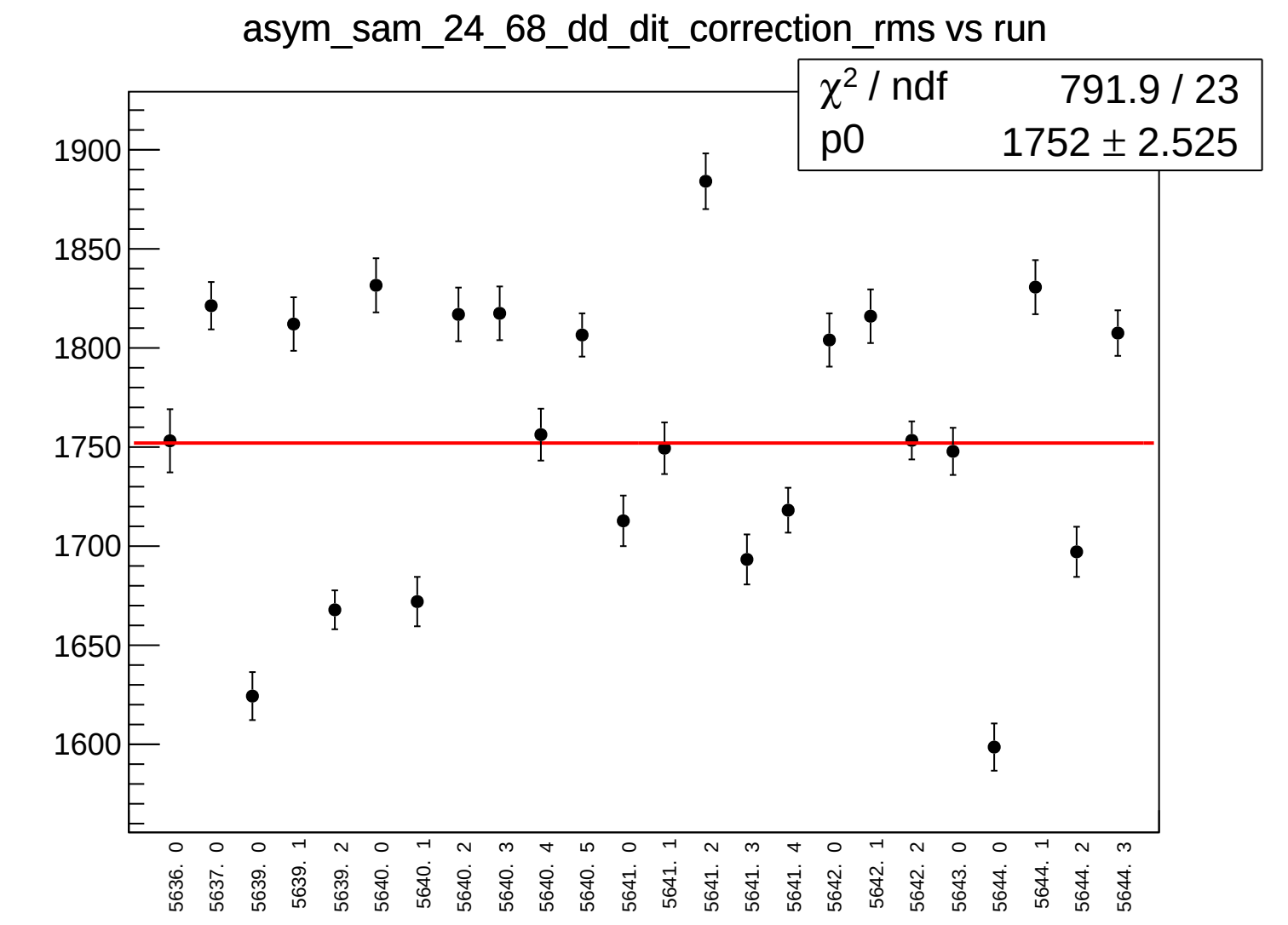

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 22.61 / 23
p0 21.02 ± 238.6
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −90.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

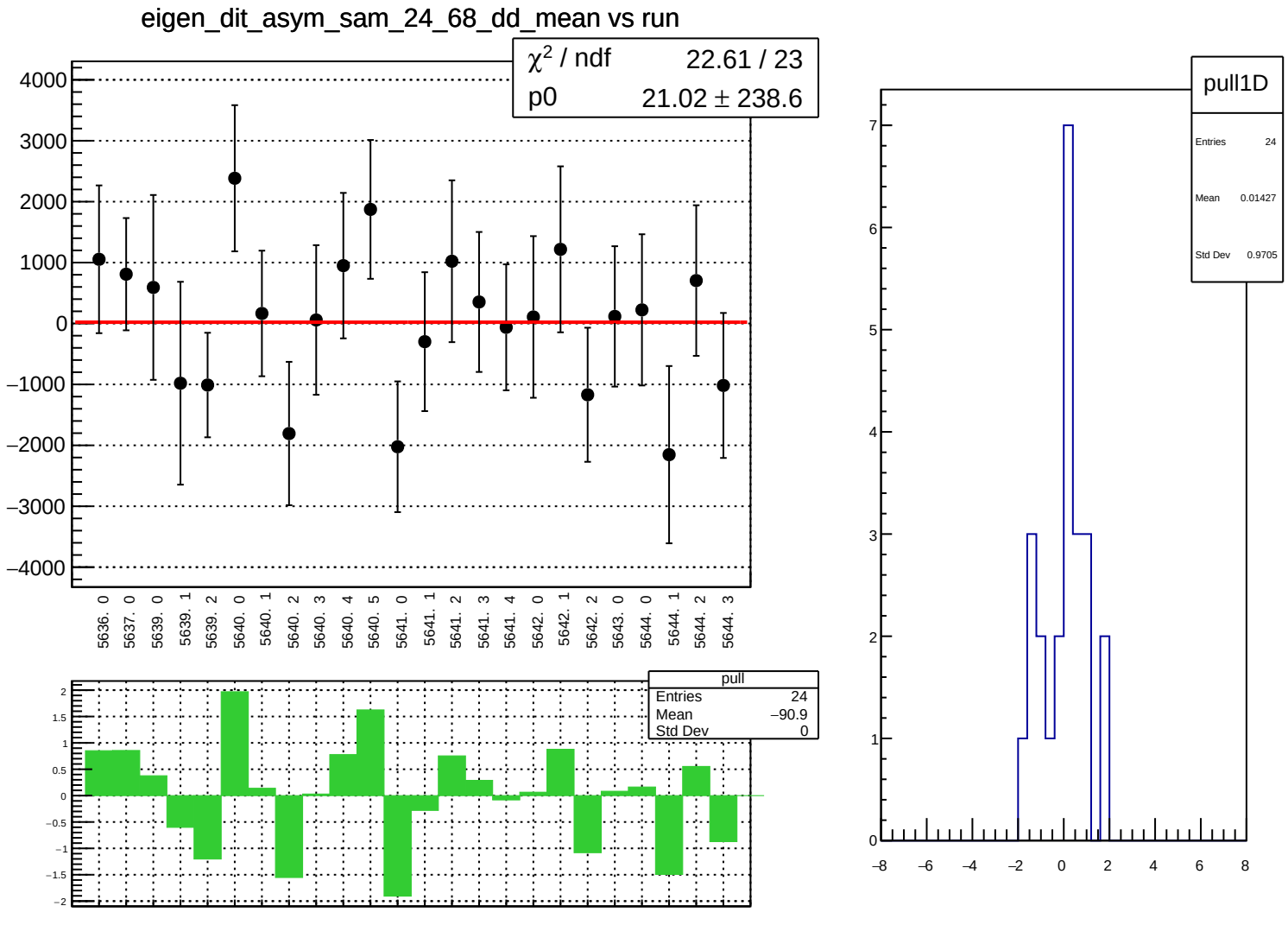

pull1D
Entries 24
Mean 0.01427
Std Dev 0.9705
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

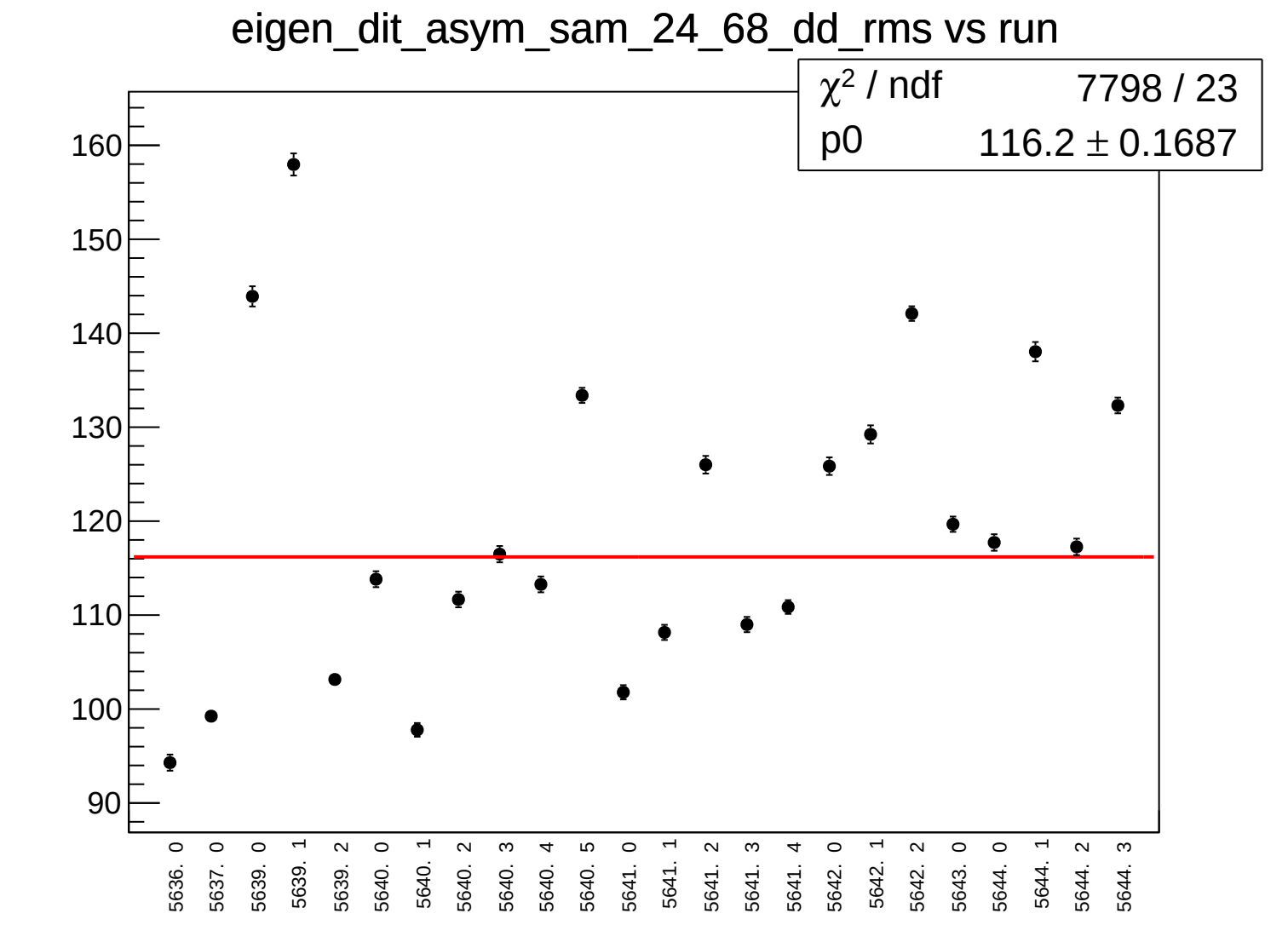

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 7798 / 23
p0 116.2 ± 0.1687
160
150
140
130
120
110
100
90
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

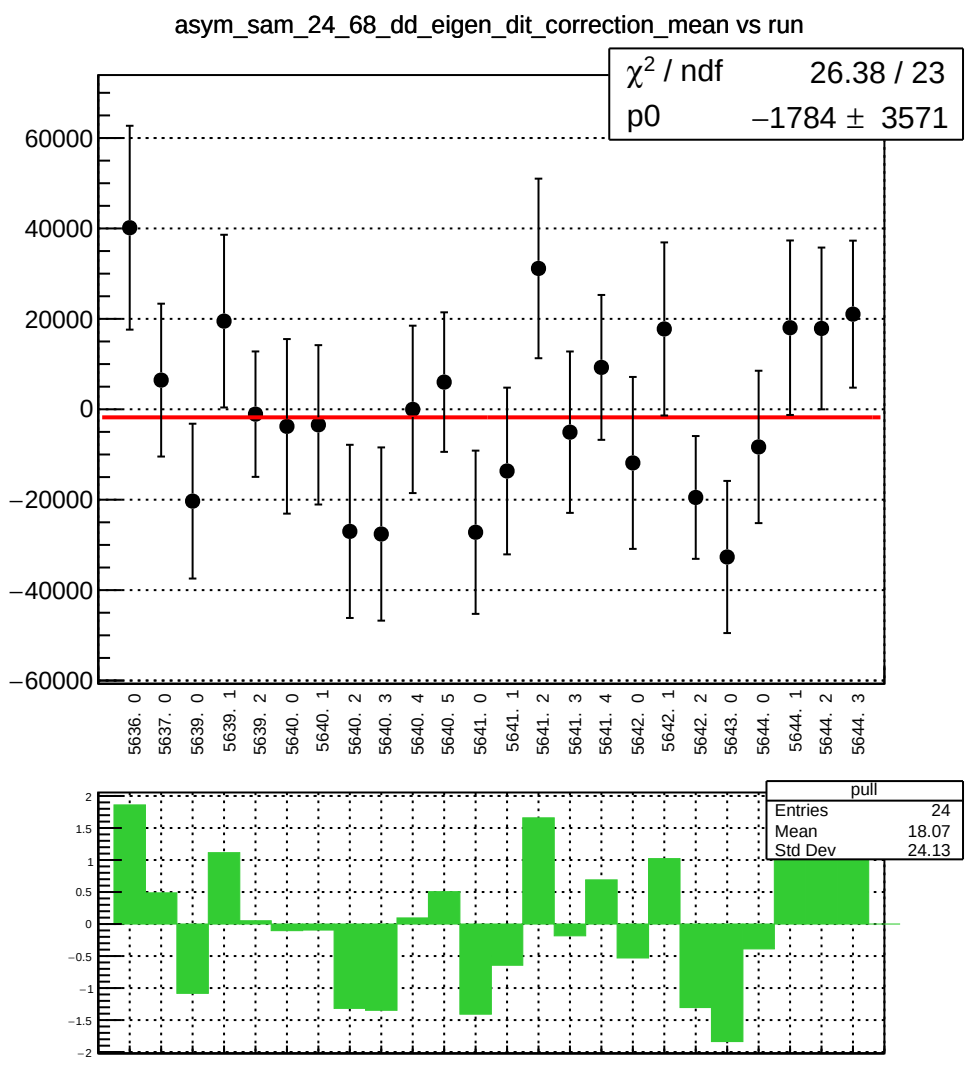

asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 26.38 / 23
p0 −1784 ± 3571
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 18.07
Std Dev 24.13
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

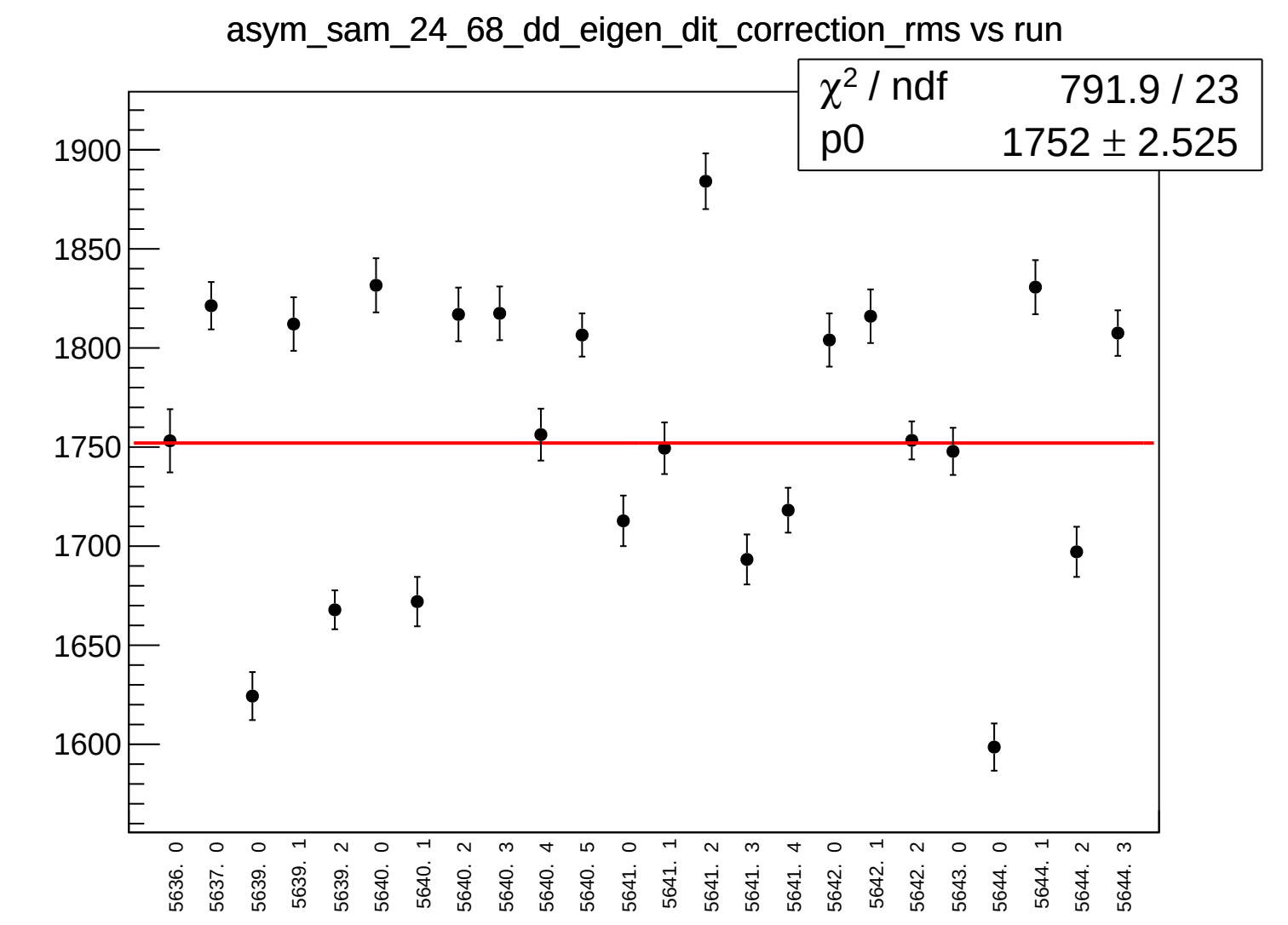

pull1D
Entries 24
Mean 0.03236
Std Dev 1.048
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

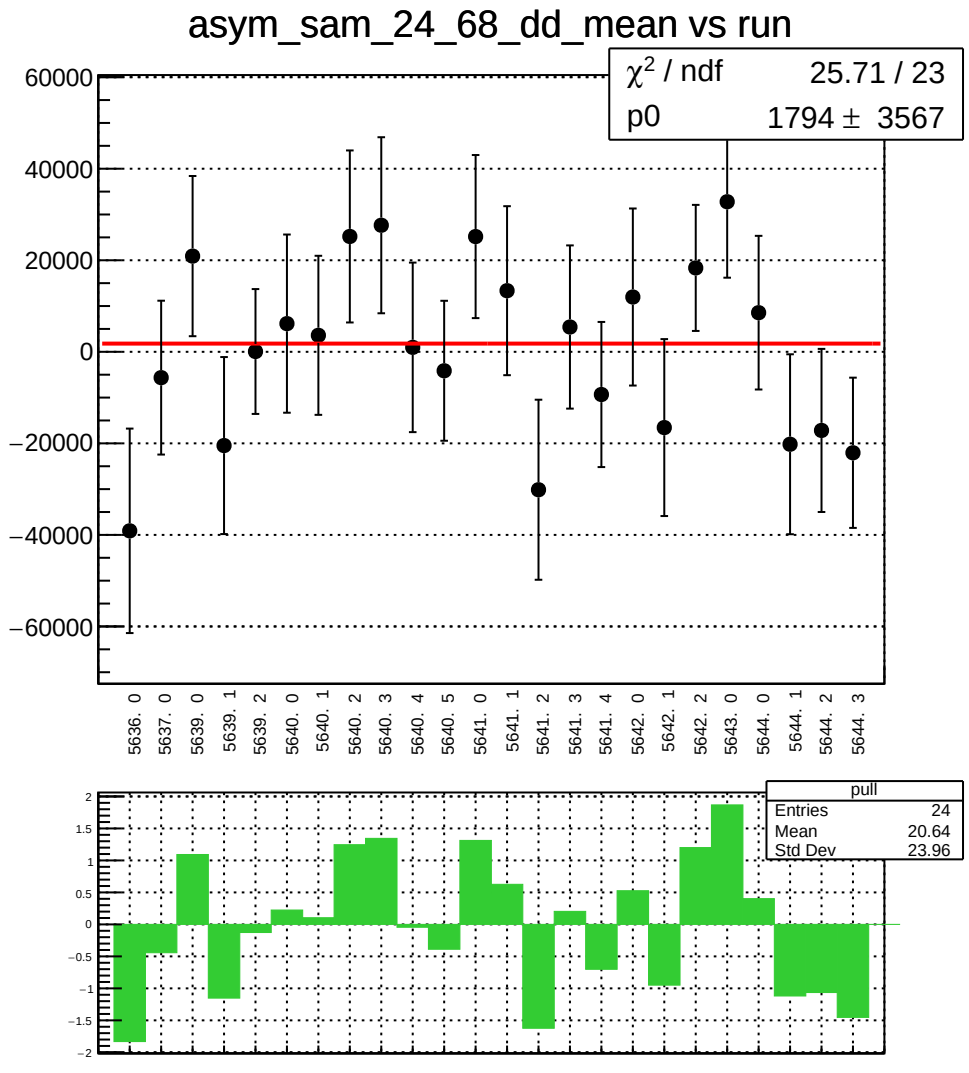

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 791.9 / 23
p0 1752 ± 2.525
1900
1850
1800
1750
1700
1650
1600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

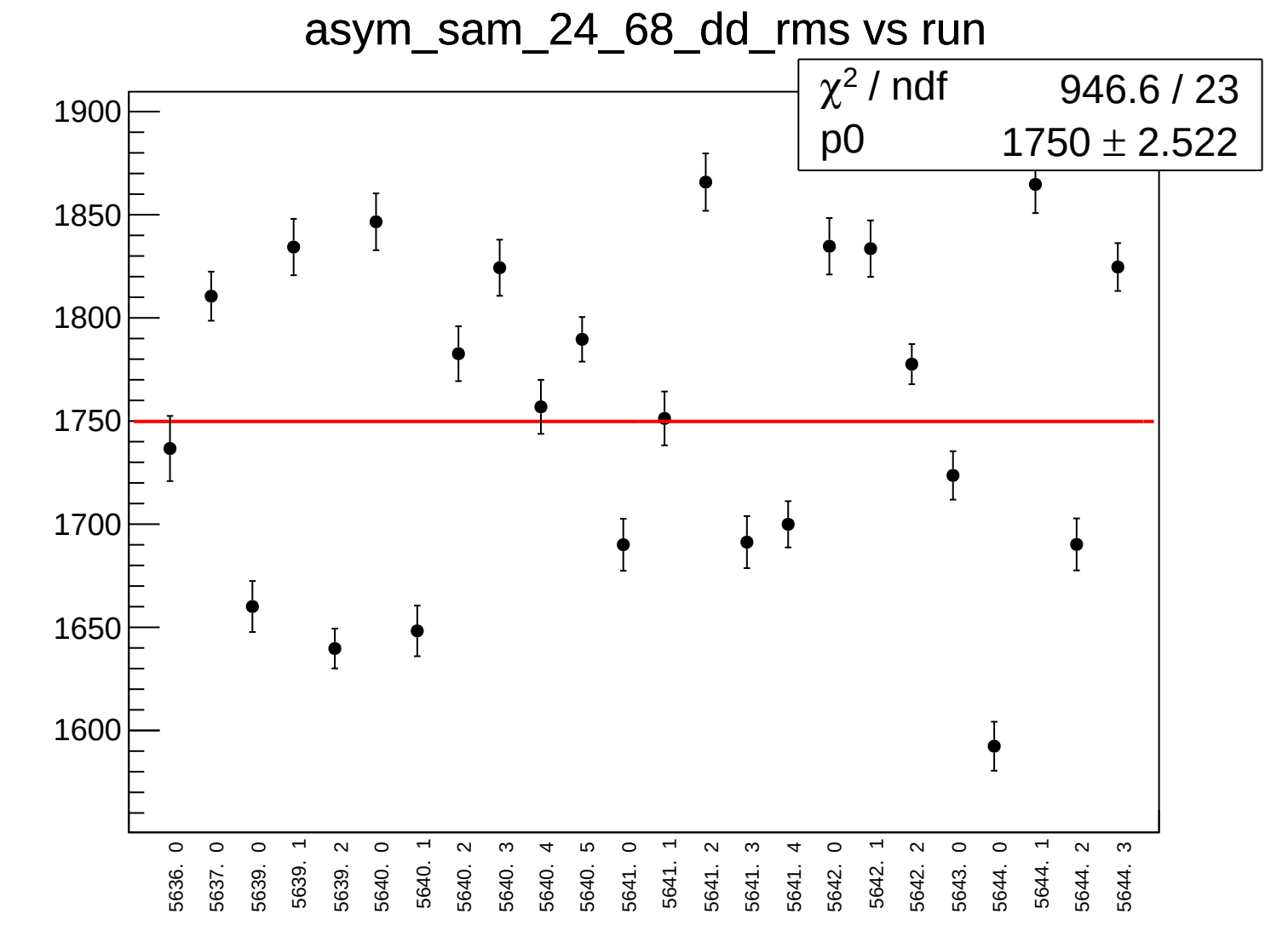

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 22.61 / 23
p0 21.02 ± 238.6
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −90.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.01427
Std Dev 0.9705
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

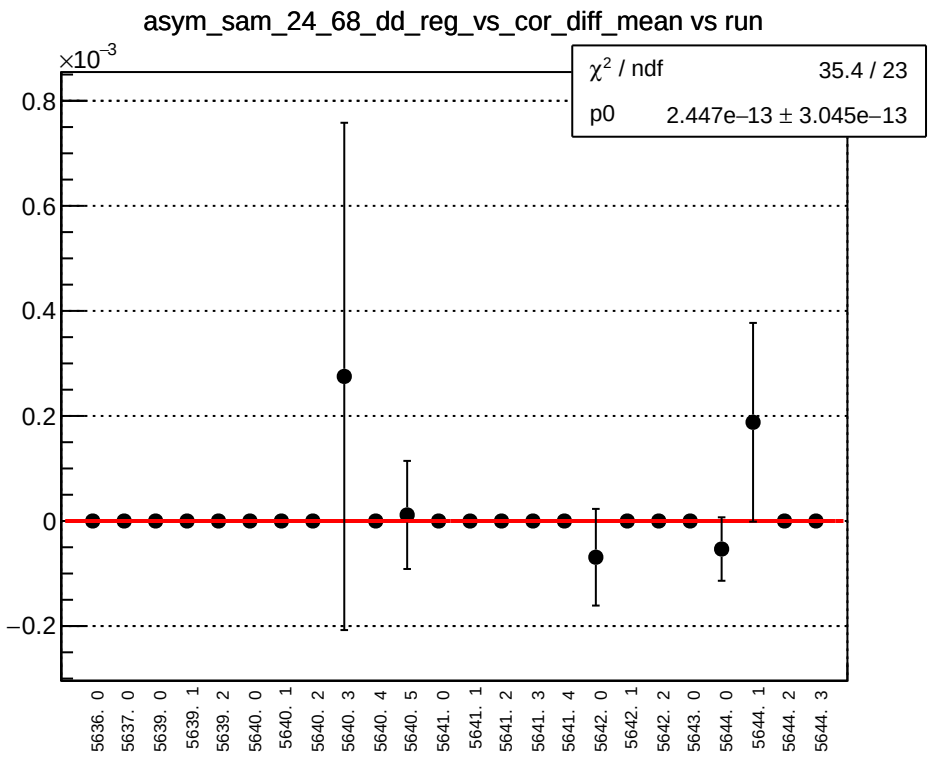

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 7798 / 23
p0 116.2 ± 0.1687
160
150
140
130
120
110
100
90
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

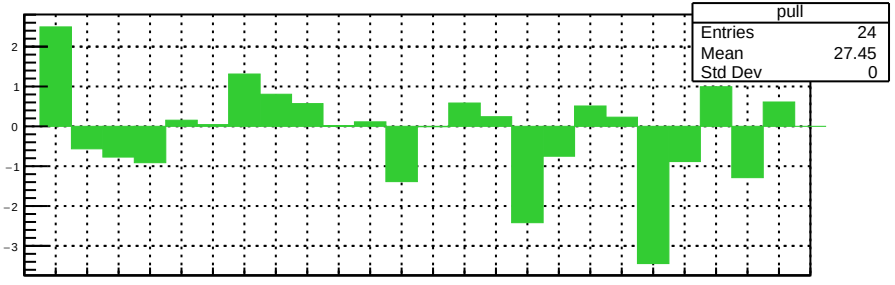

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 26.38 / 23
p0 −1784 ± 3571
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 18.07
Std Dev 24.13
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.03236
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

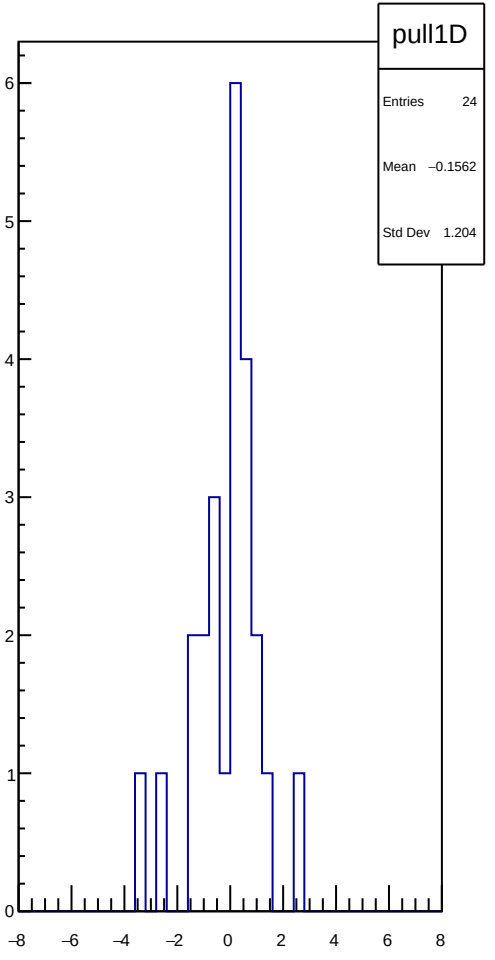

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 791.9 / 23
p0 1752 ± 2.525
1900
1850
1800
1750
1700
1650
1600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

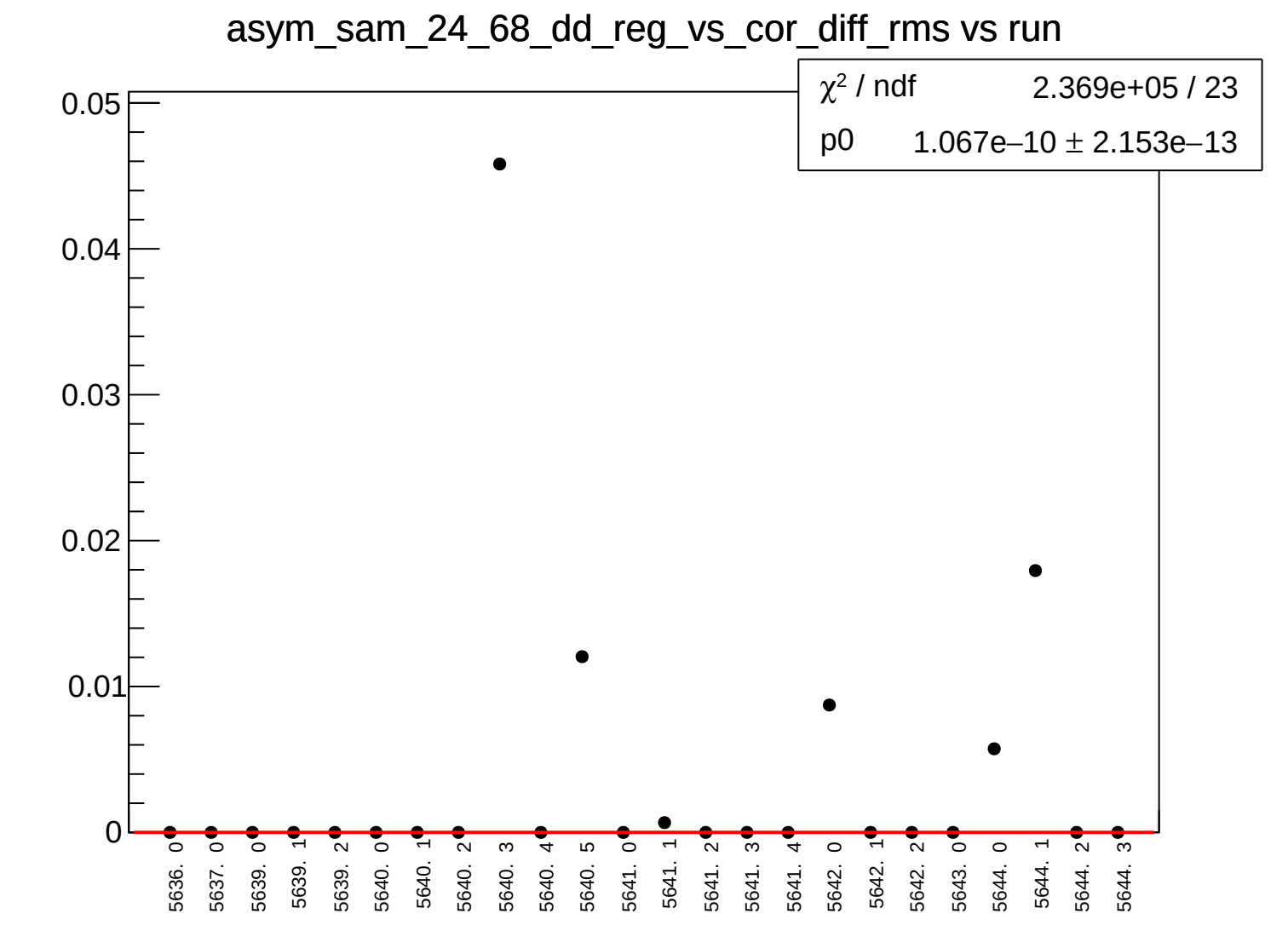

asym_sam_24_68_dd_mean vs run
χ² / ndf 25.71 / 23
p0 1794 ± 3567
60000
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 20.64
Std Dev 23.96
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.03107
Std Dev 1.035
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

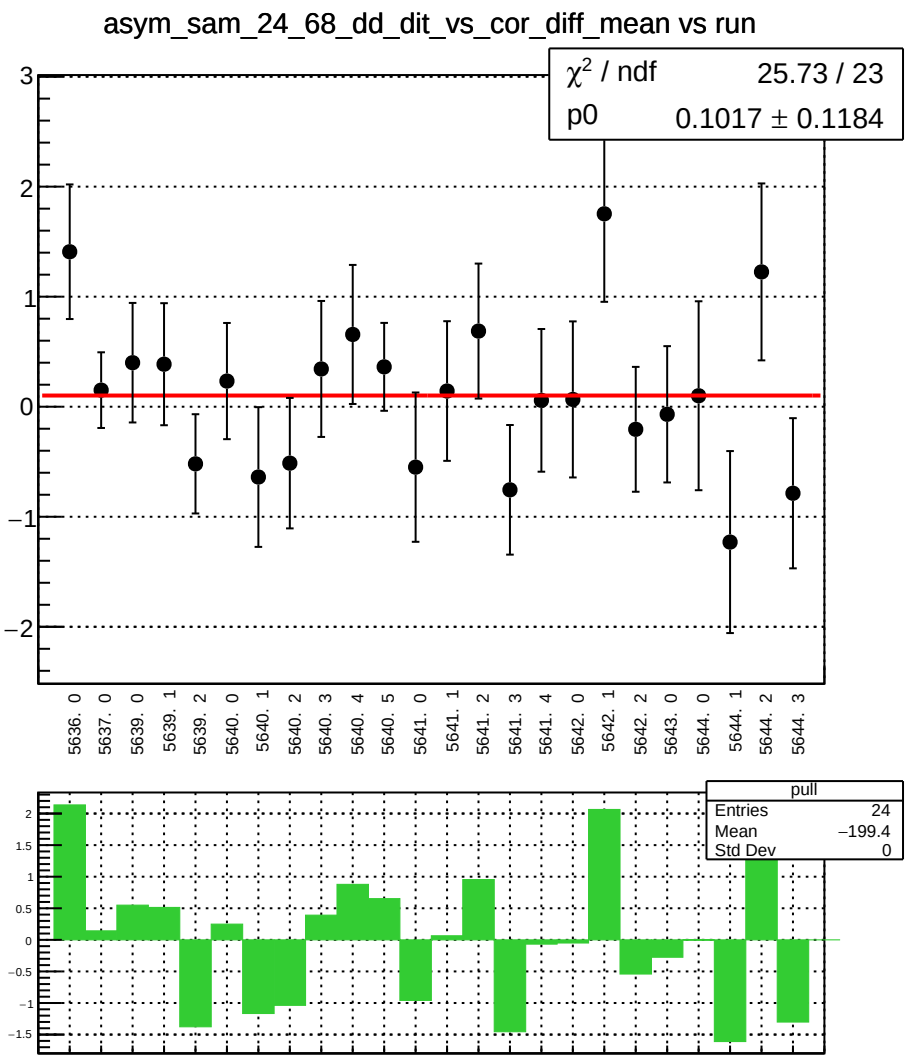

asym_sam_24_68_dd_rms vs run
χ² / ndf 946.6 / 23
p0 1750 ± 2.522
1900
1850
1800
1750
1700
1650
1600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

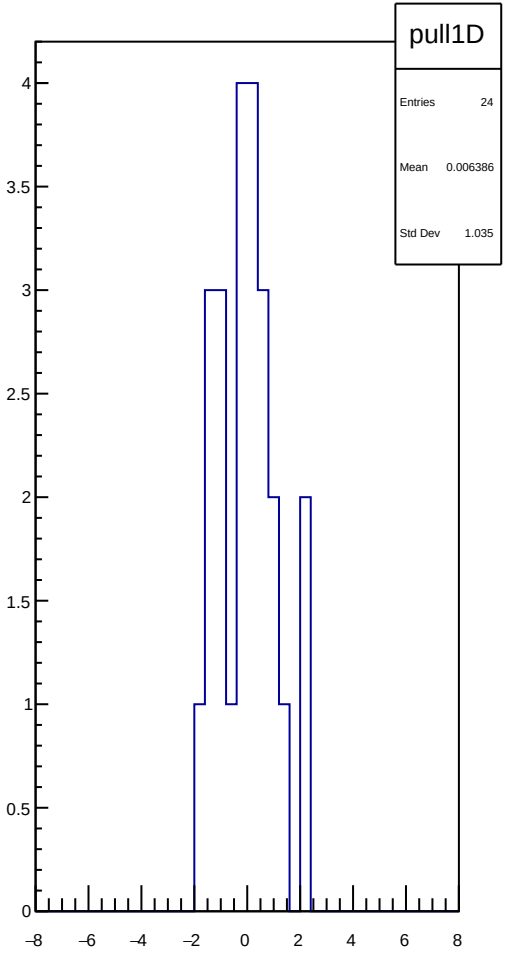

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 35.4 / 23
p0 2.447e−13 ± 3.045e−13
0.8
0.6
0.4
0.2
0
−0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

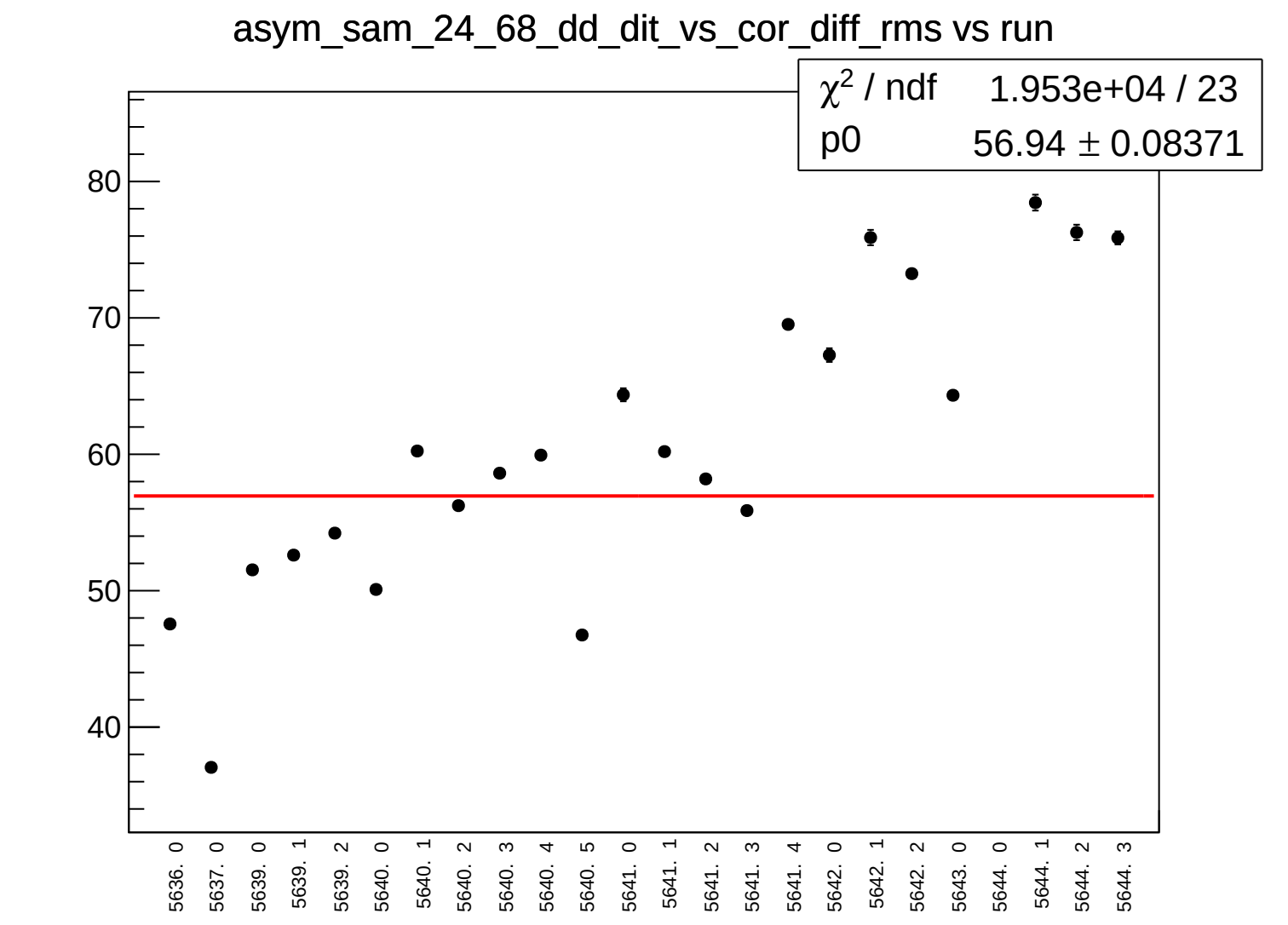

pull
Entries 24
Mean 27.45
Std Dev 0
2
1
0
−1
−2
−3

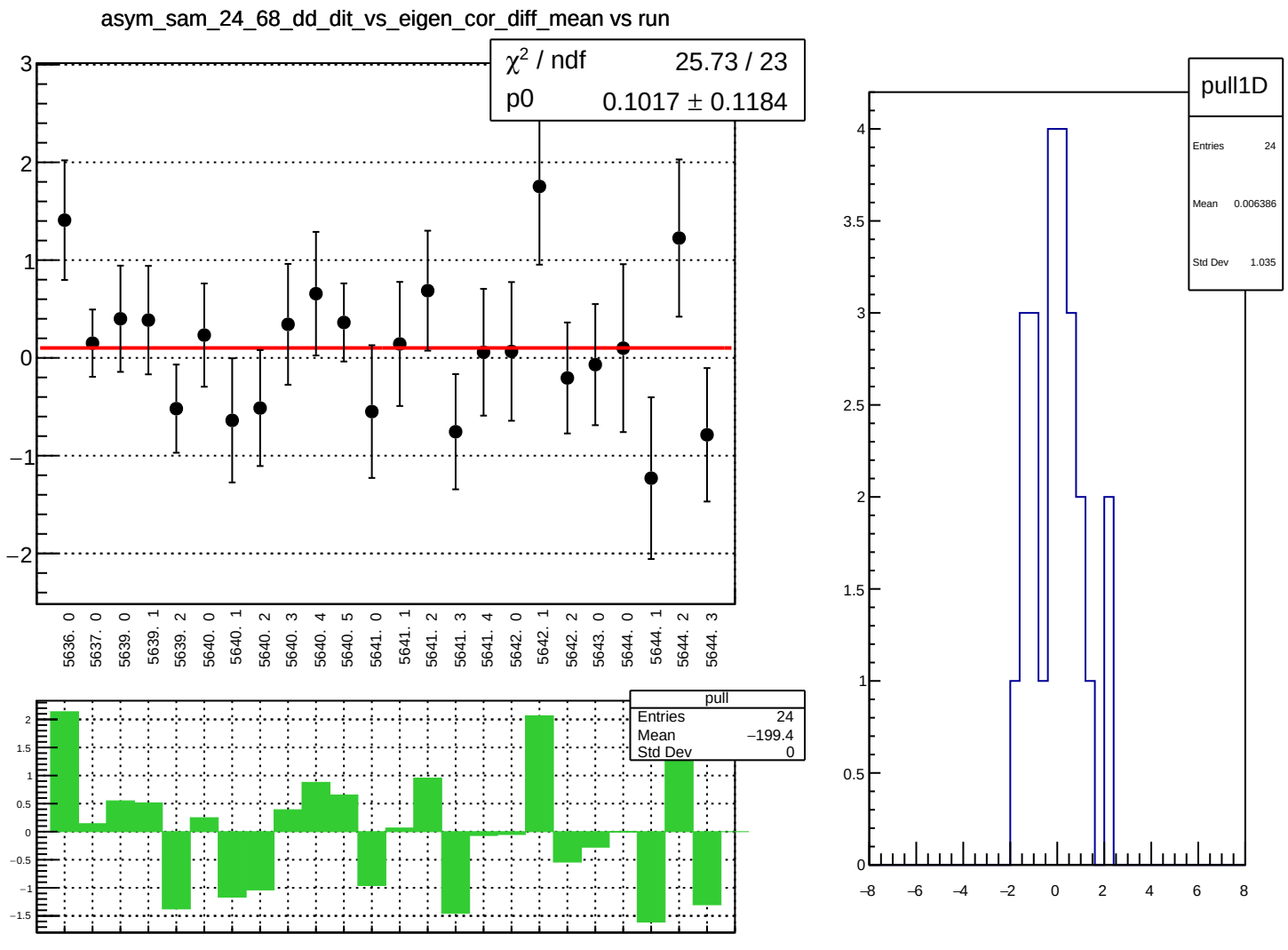

pull1D
Entries 24
Mean −0.1562
Std Dev 1.204
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

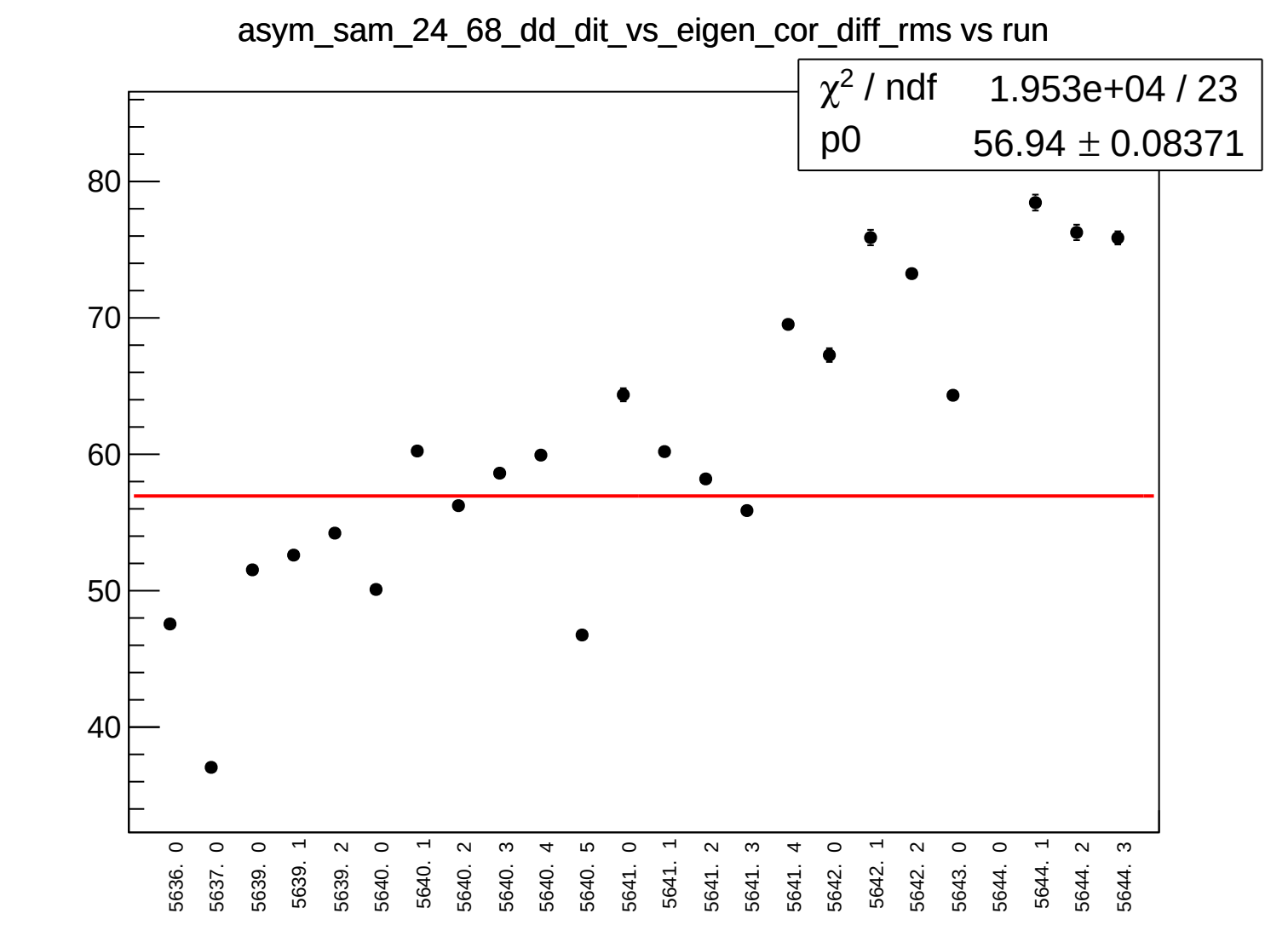

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.369e+05 / 23
p0 1.067e−10 ± 2.153e−13
0.05
0.04
0.03
0.02
0.01
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

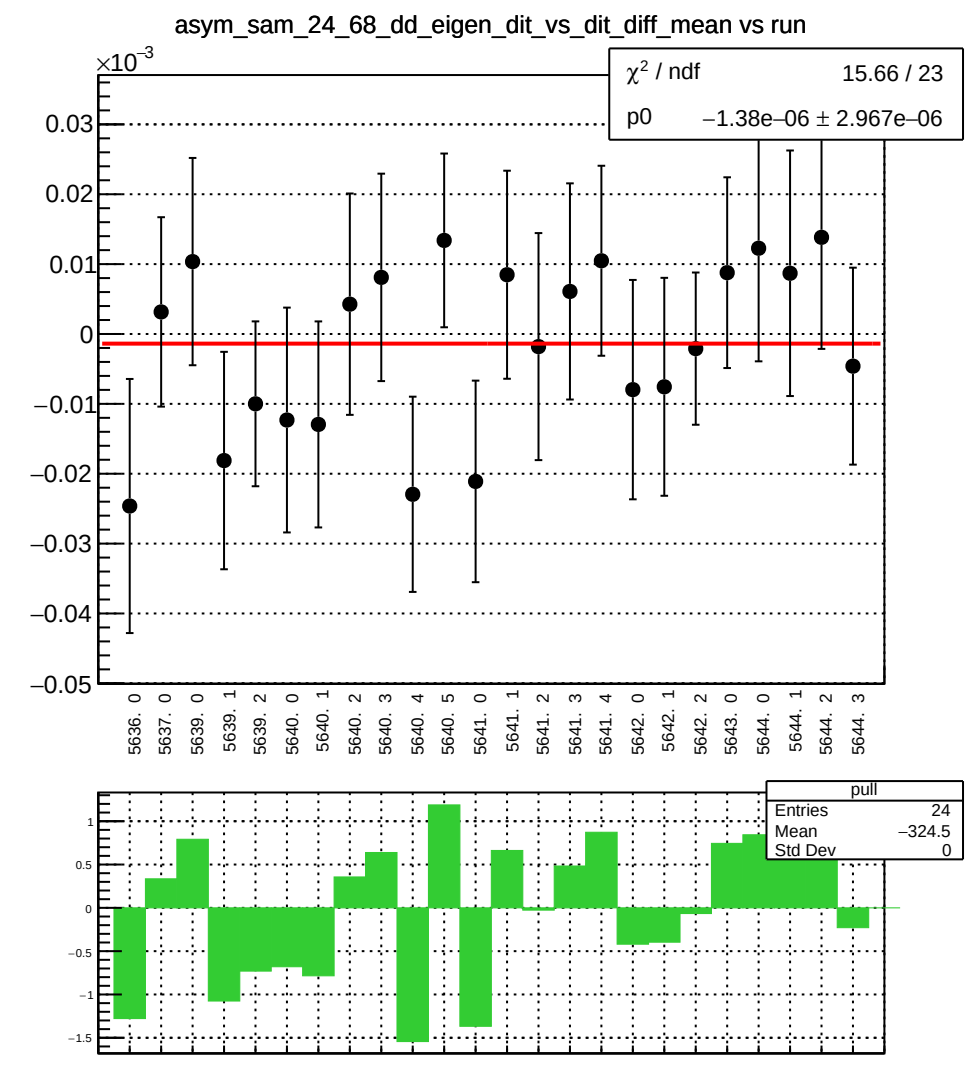

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 25.73 / 23
p0 0.1017 ± 0.1184
3
2
1
0
−1
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −199.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

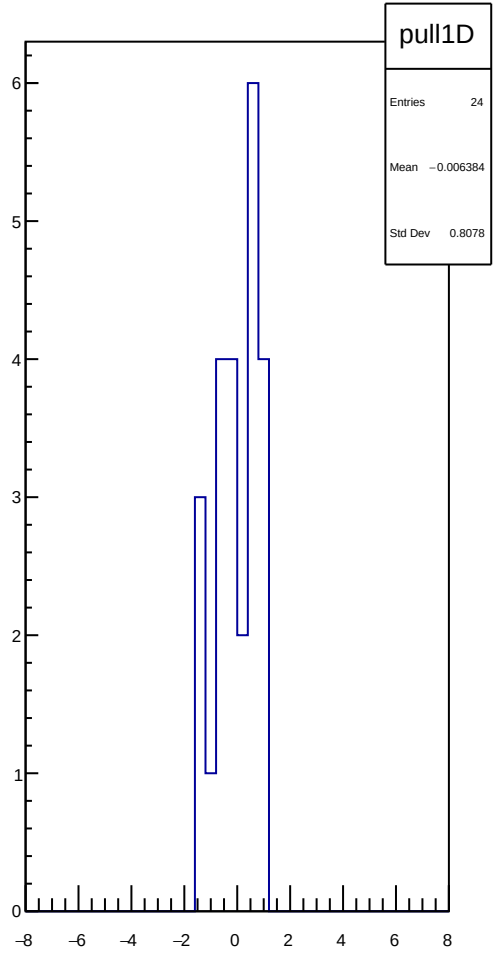

pull1D
Entries 24
Mean 0.006386
Std Dev 1.035
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

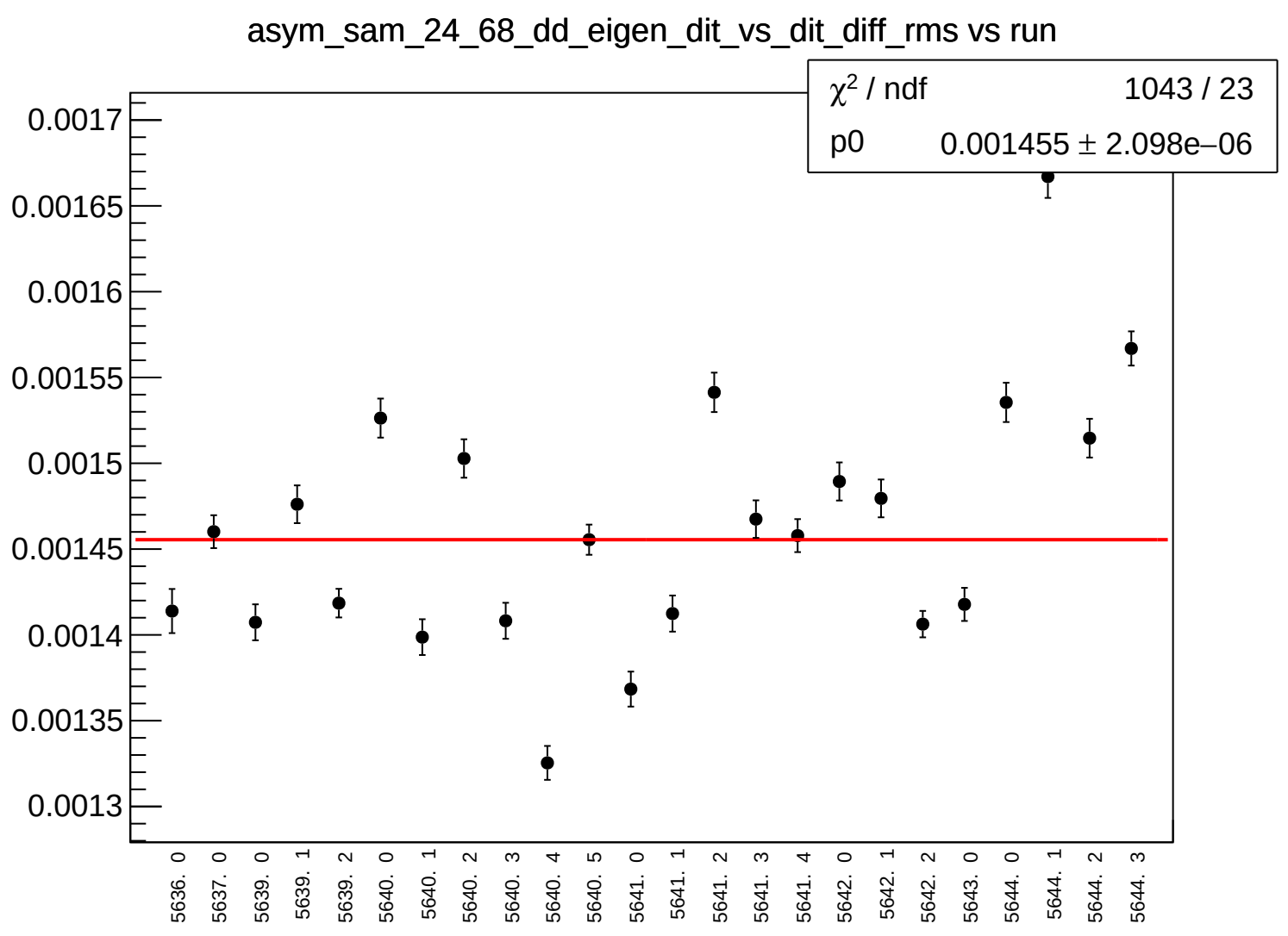

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.953e+04 / 23
p0 56.94 ± 0.08371
80
70
60
50
40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

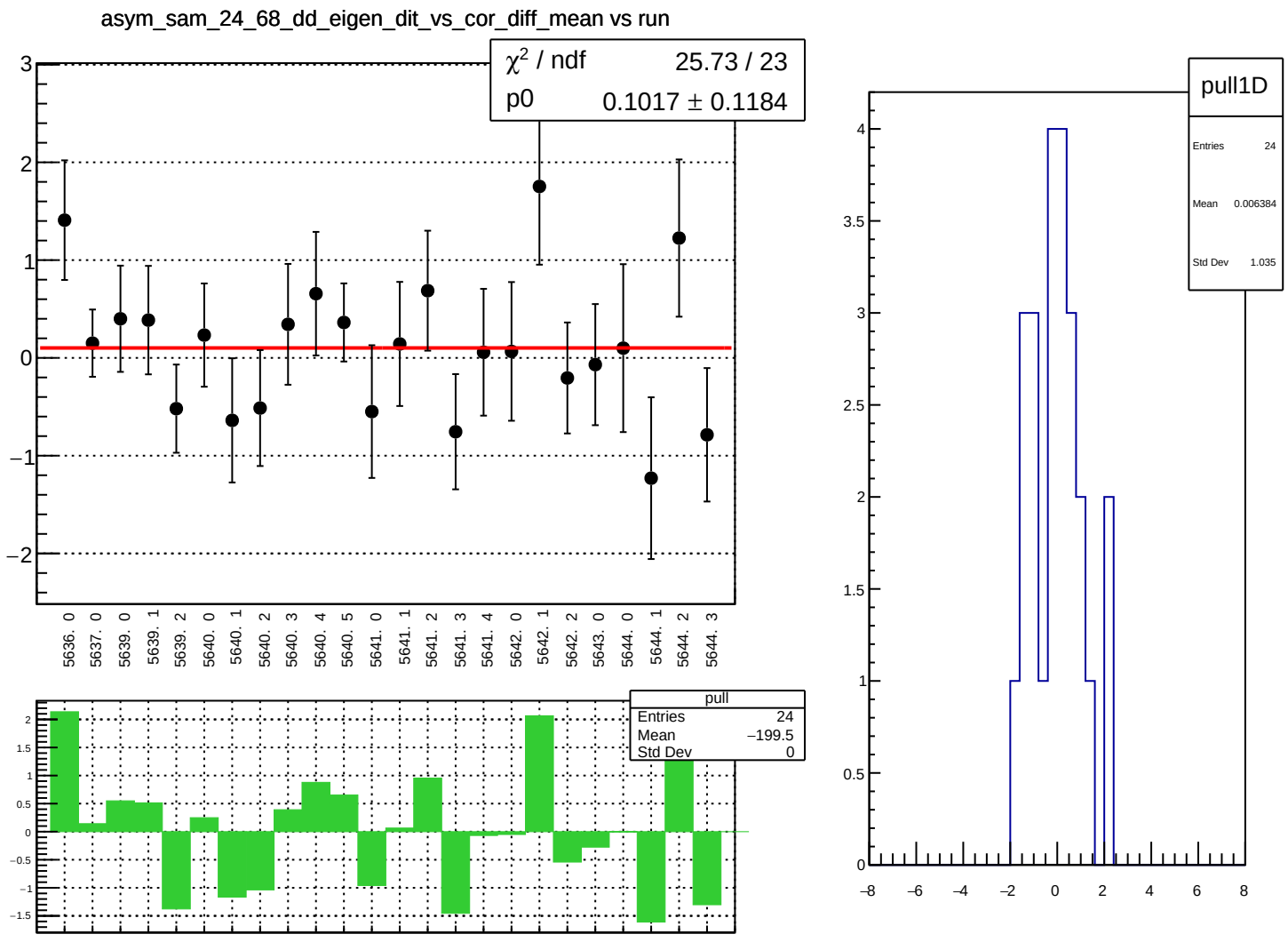

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.73 / 23
p0 0.1017 ± 0.1184
3
2
1
0
−1
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −199.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.006386
Std Dev 1.035
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

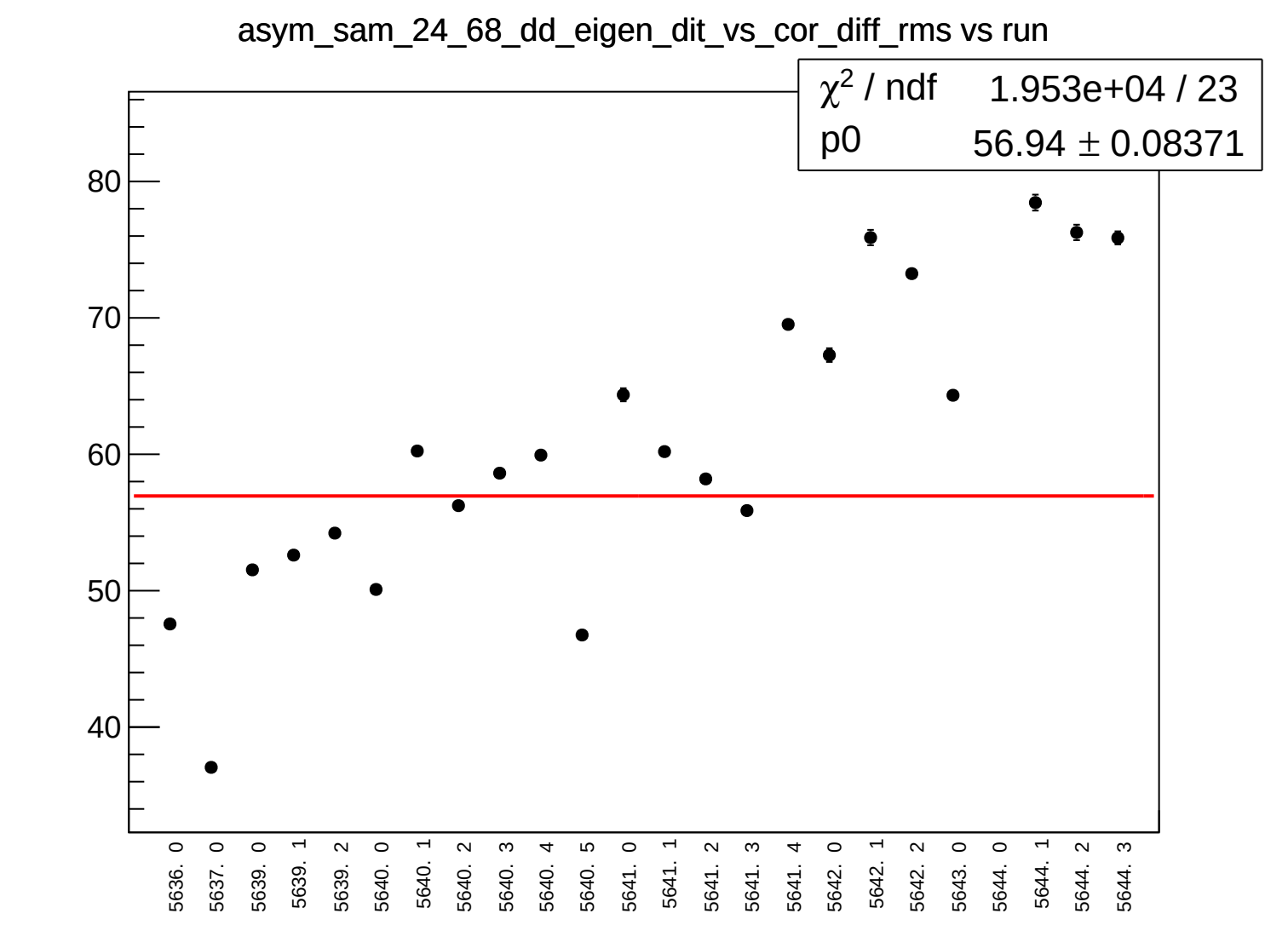

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.953e+04 / 23
p0 56.94 ± 0.08371
80
70
60
50
40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

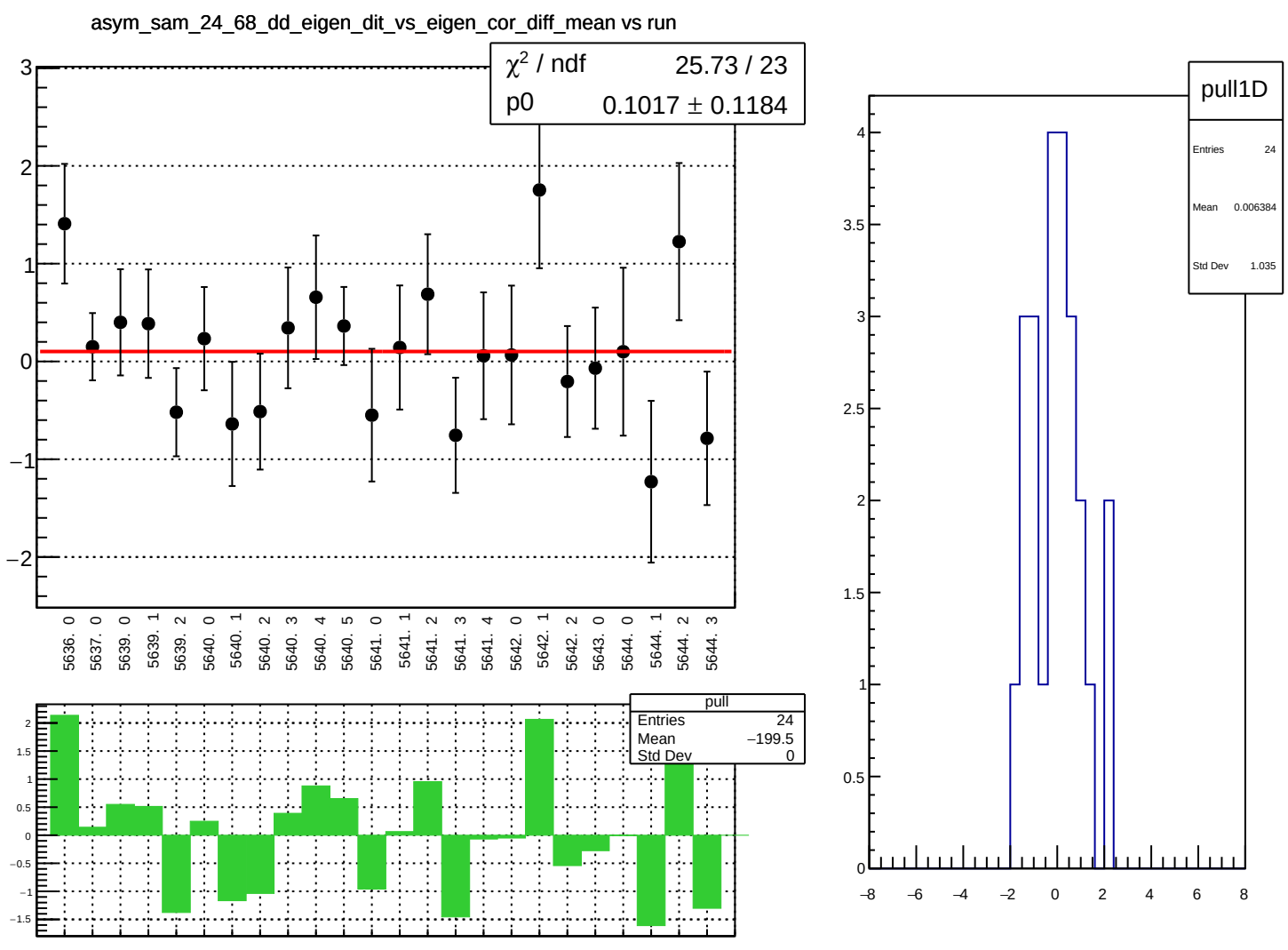

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 15.66 / 23
p0 −1.38e−06 ± 2.967e−06
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
−0.05
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −324.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

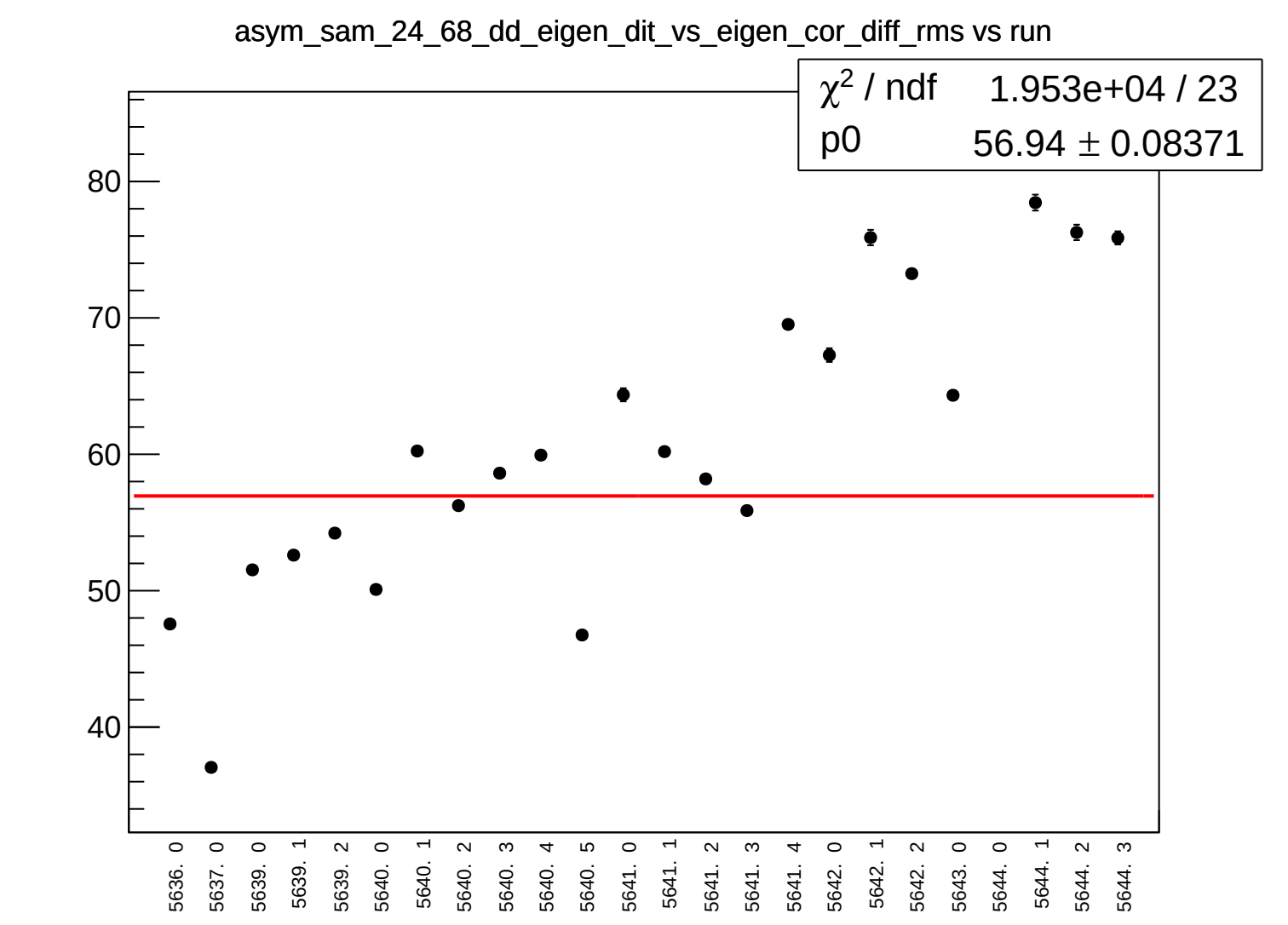

pull1D
Entries 24
Mean −0.006384
Std Dev 0.8078
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

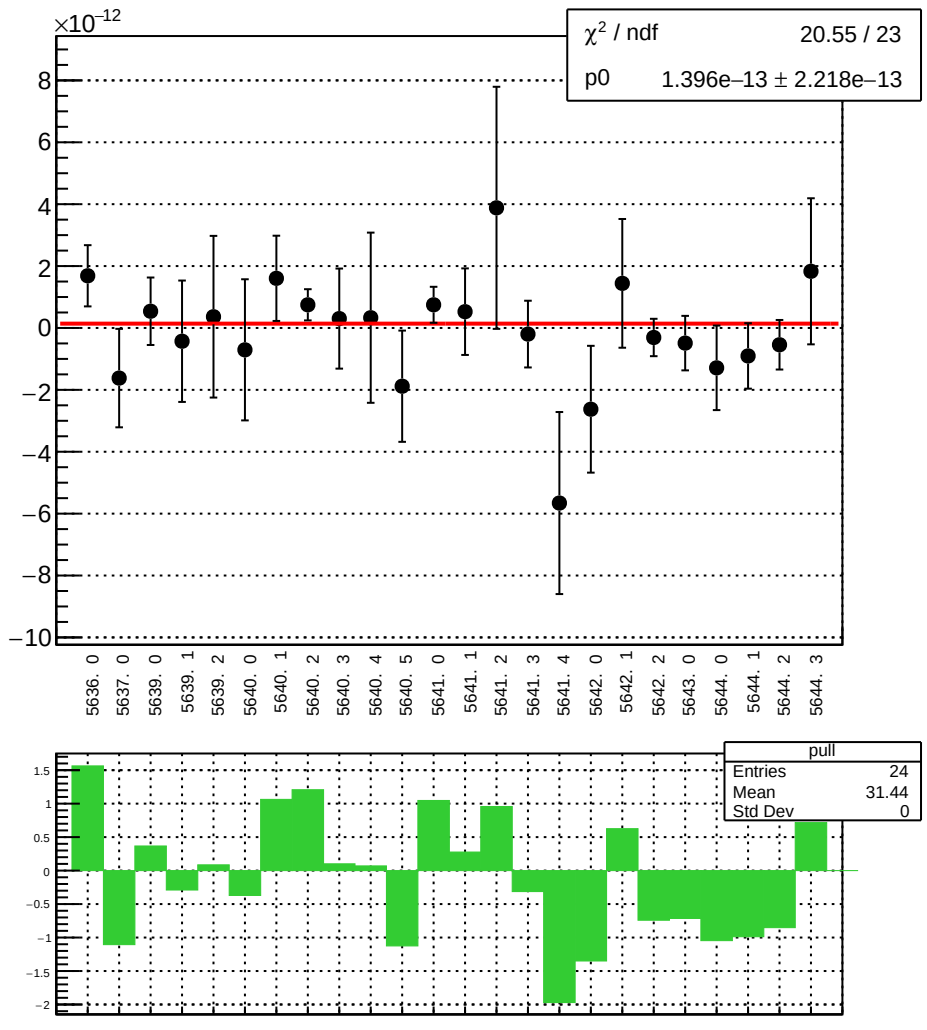

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1043 / 23
p0 0.001455 ± 2.098e−06
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

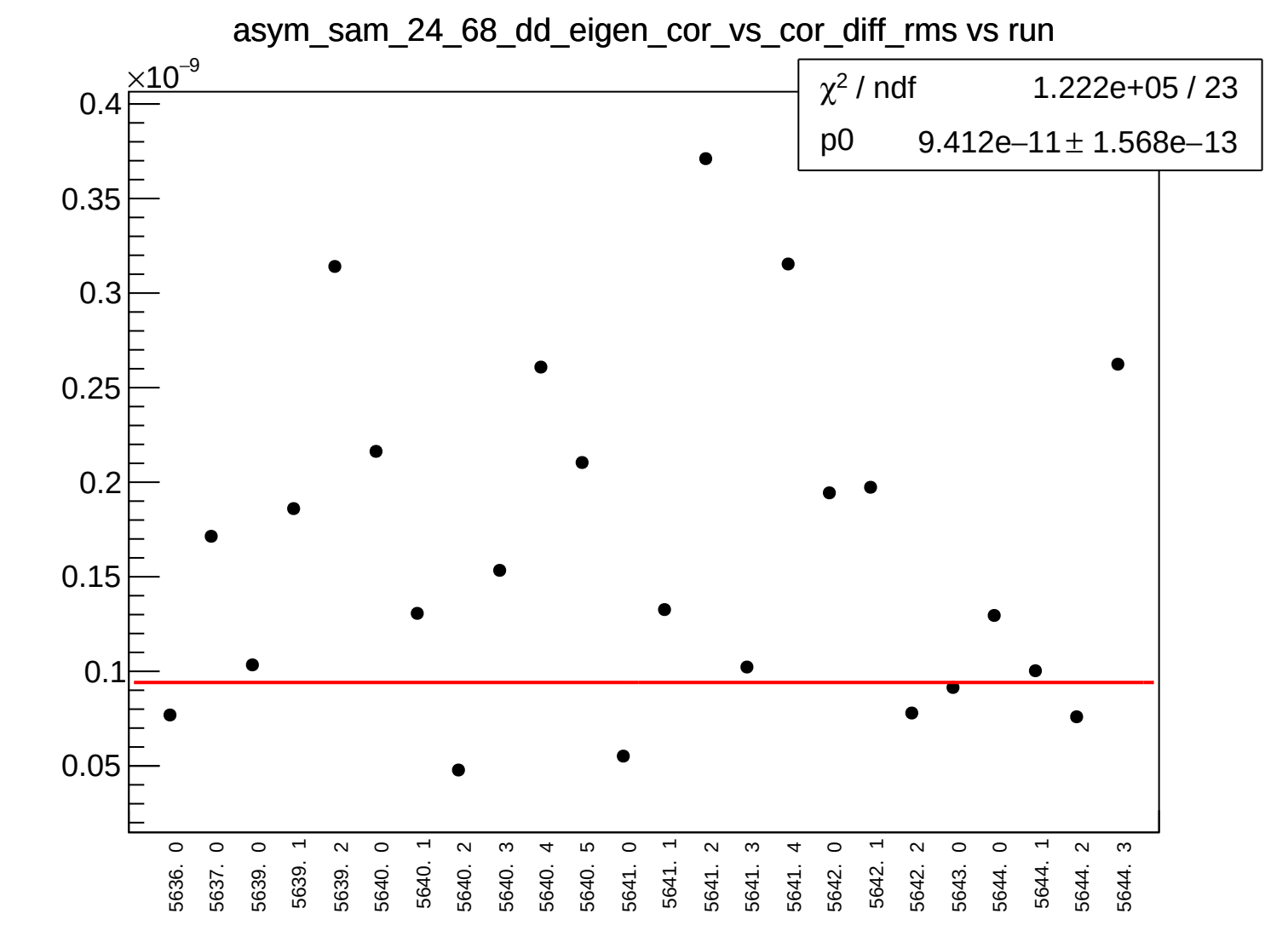

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 25.73 / 23
p0 0.1017 ± 0.1184
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −199.5
Std Dev 0
pull1D
Entries 24
Mean 0.006384
Std Dev 1.035

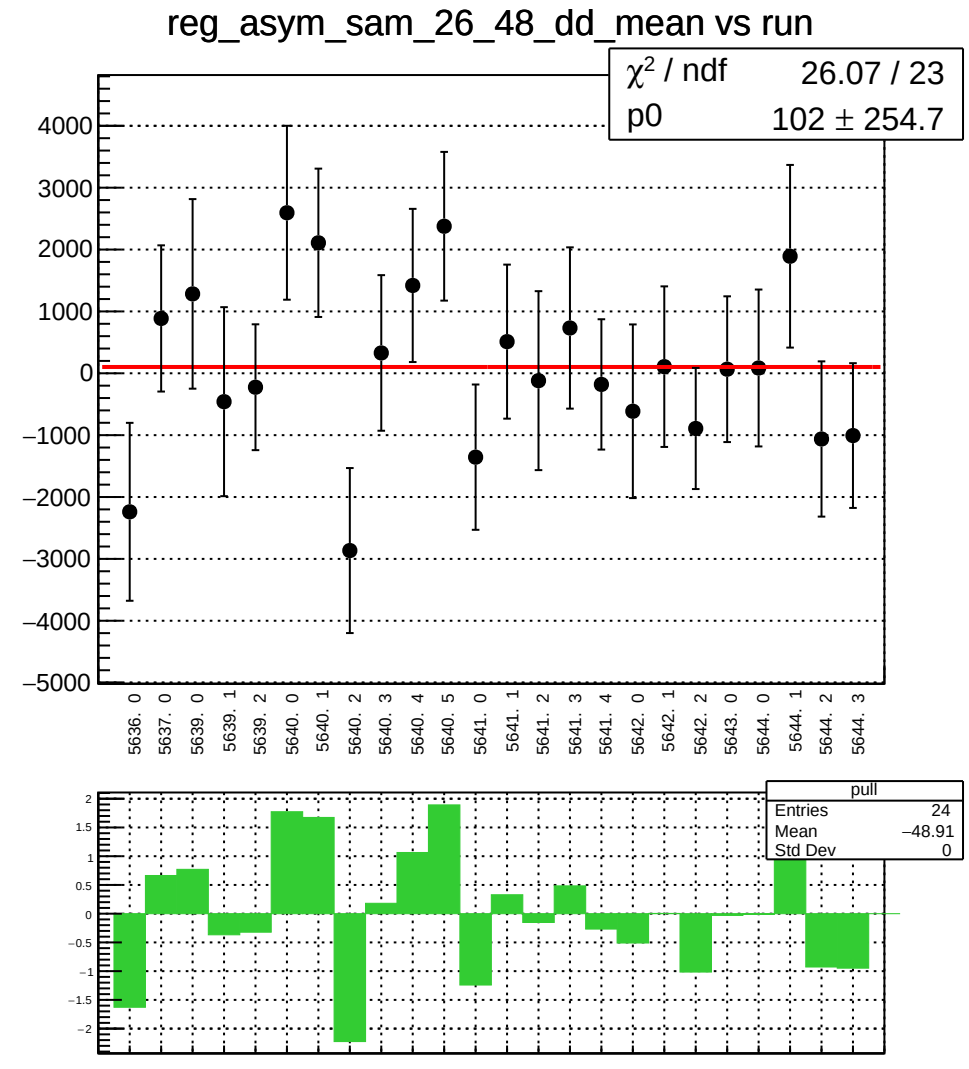

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ2 / ndf 1.953e+04 / 23
p0 56.94 ± 0.08371
80
70
60
50
40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

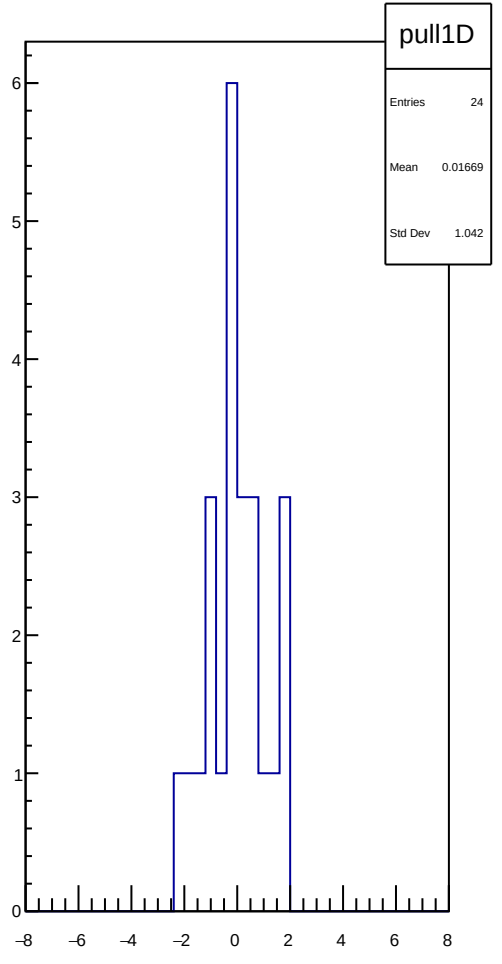

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.73 / 23
p0 0.1017 ± 0.1184
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −199.5
Std Dev 0
pull1D
Entries 24
Mean 0.006384
Std Dev 1.035

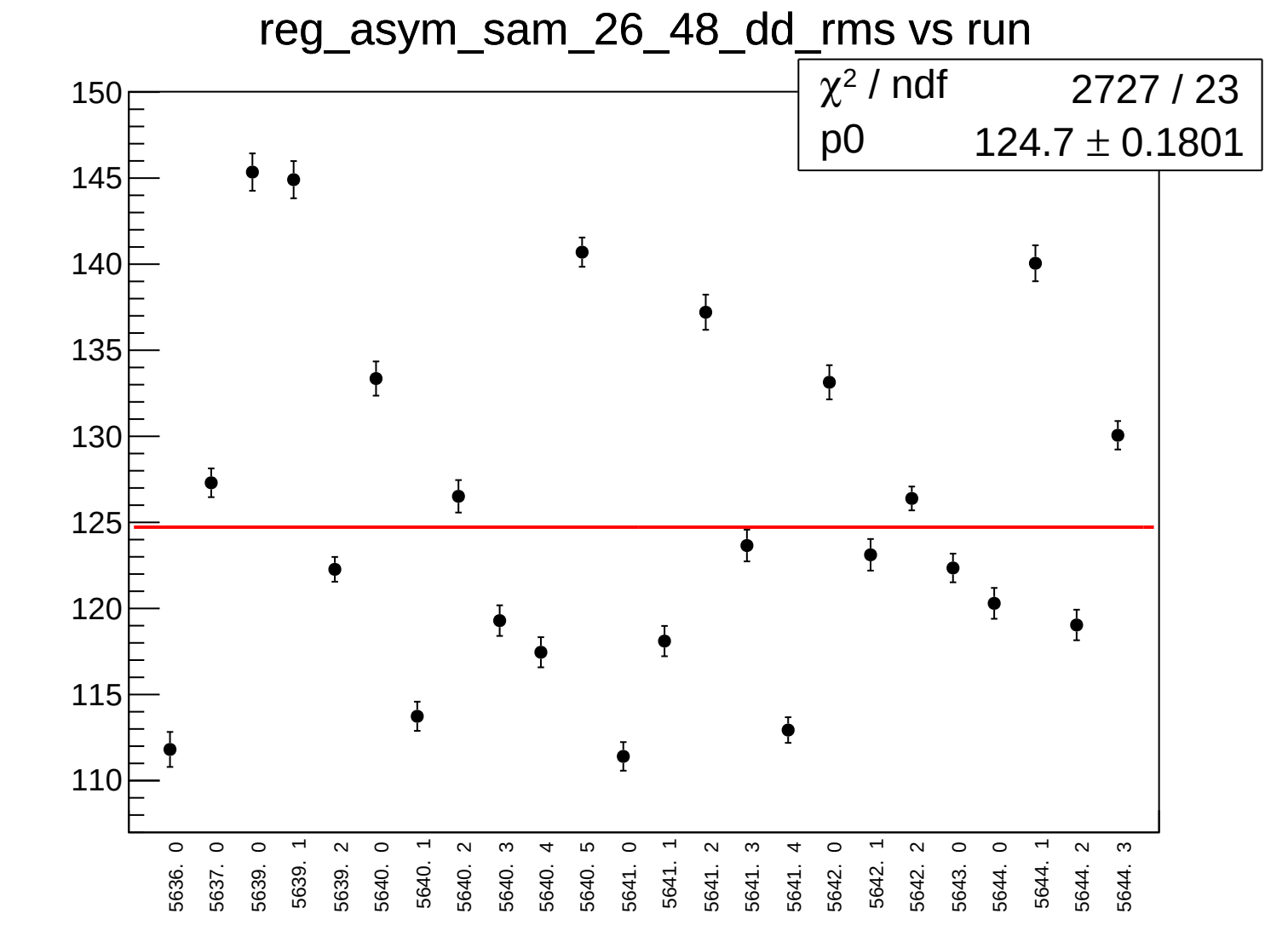

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ2 / ndf 1.953e+04 / 23
p0 56.94 ± 0.08371
80
70
60
50
40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

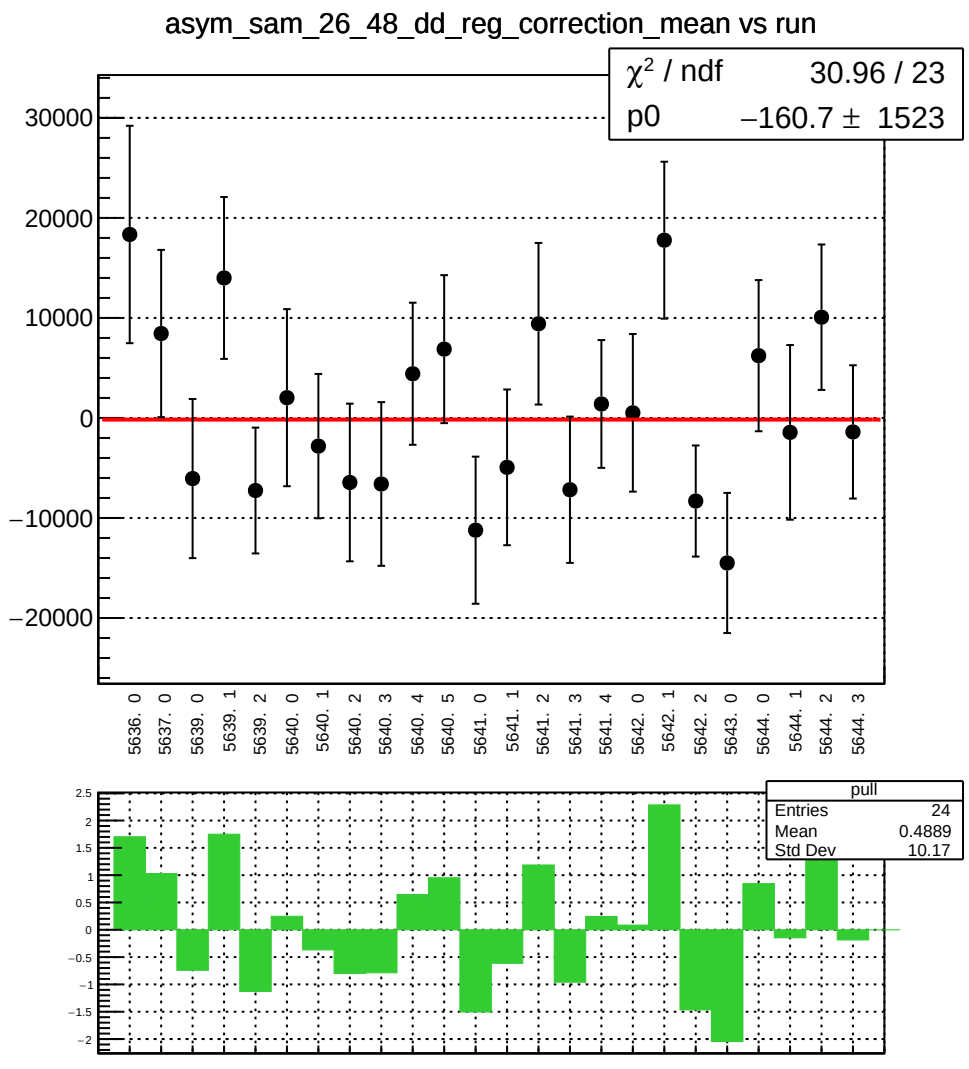

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 20.55 / 23
p0 1.396e−13 ± 2.218e−13
8
6
4
2
0
−2
−4
−6
−8
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 31.44
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.1161
Std Dev 0.9181
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

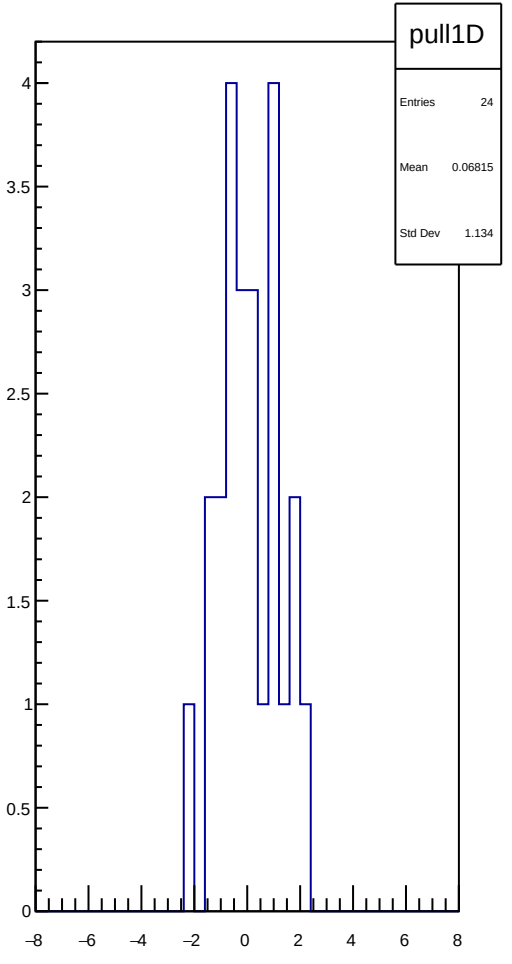

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.222e+05 / 23
p0 9.412e−11 ± 1.568e−13
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

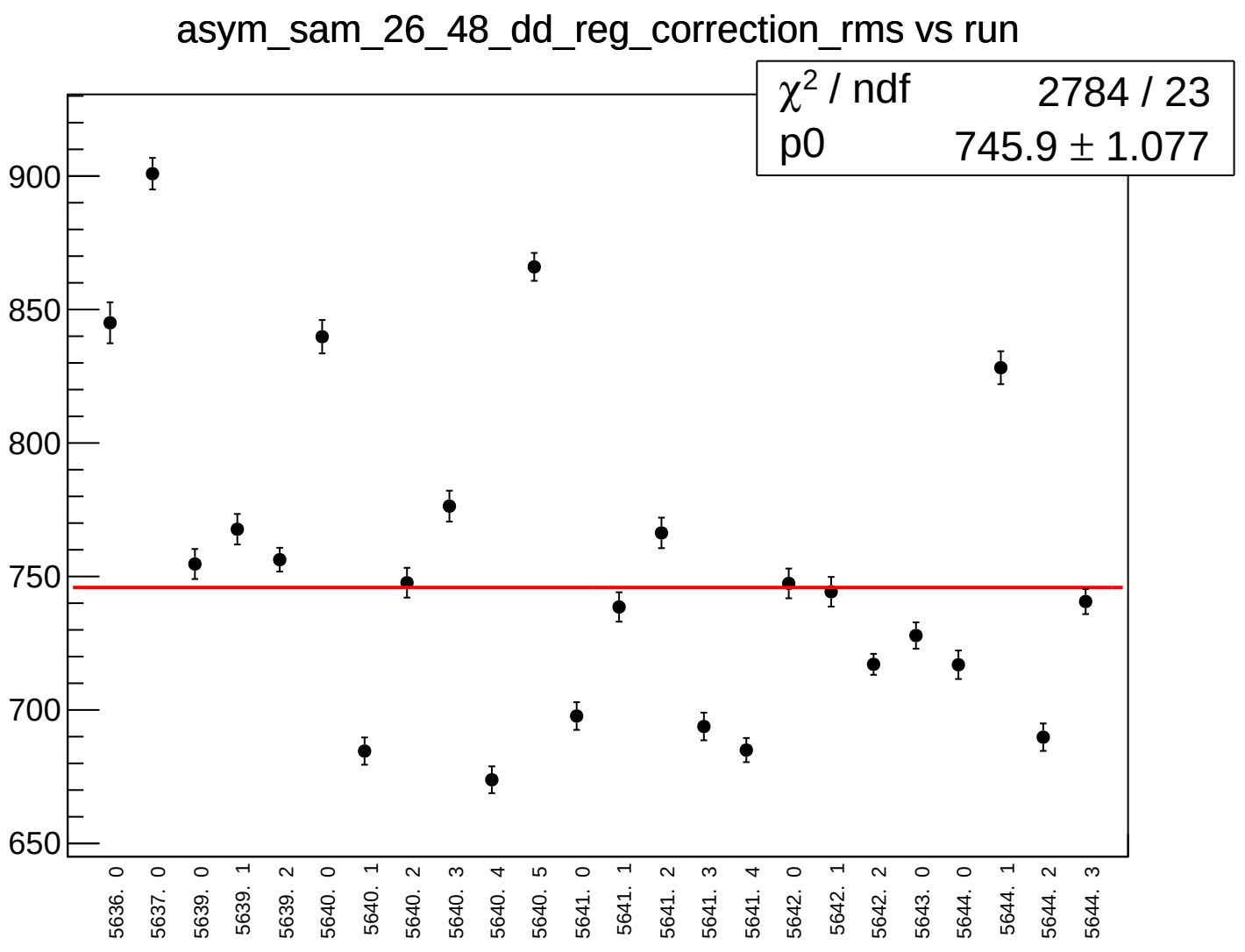

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 26.07 / 23
p0 102 ± 254.7
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −48.91
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

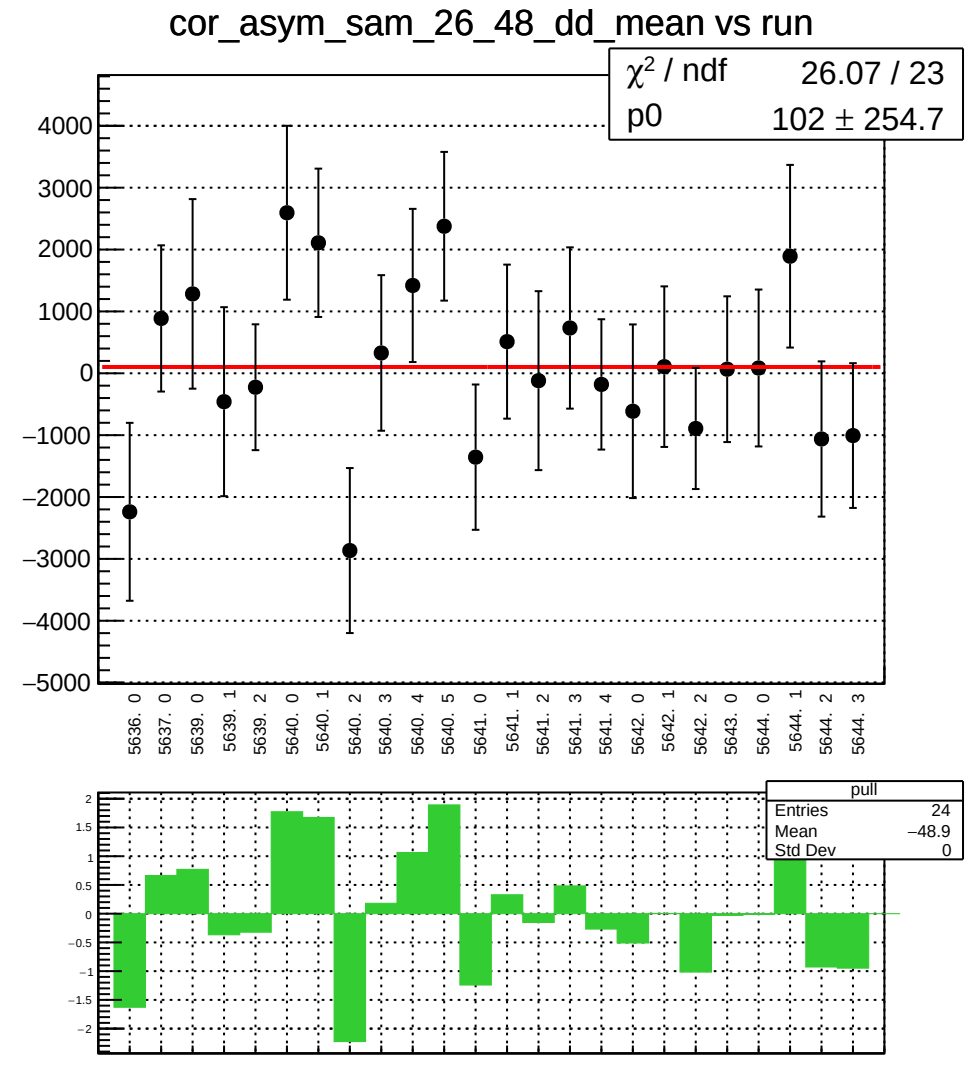

pull1D
Entries 24
Mean 0.01669
Std Dev 1.042
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

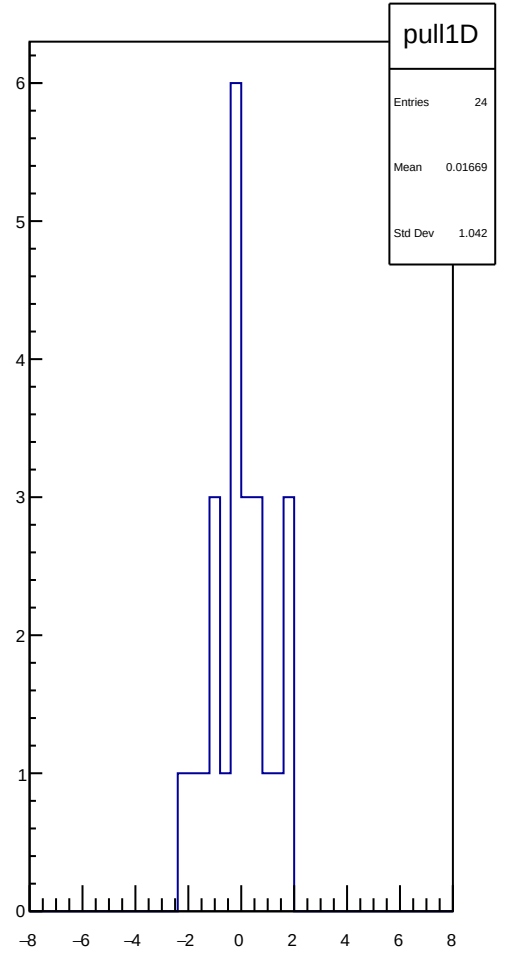

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 2727 / 23
p0 124.7 ± 0.1801
150
145
140
135
130
125
120
115
110
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

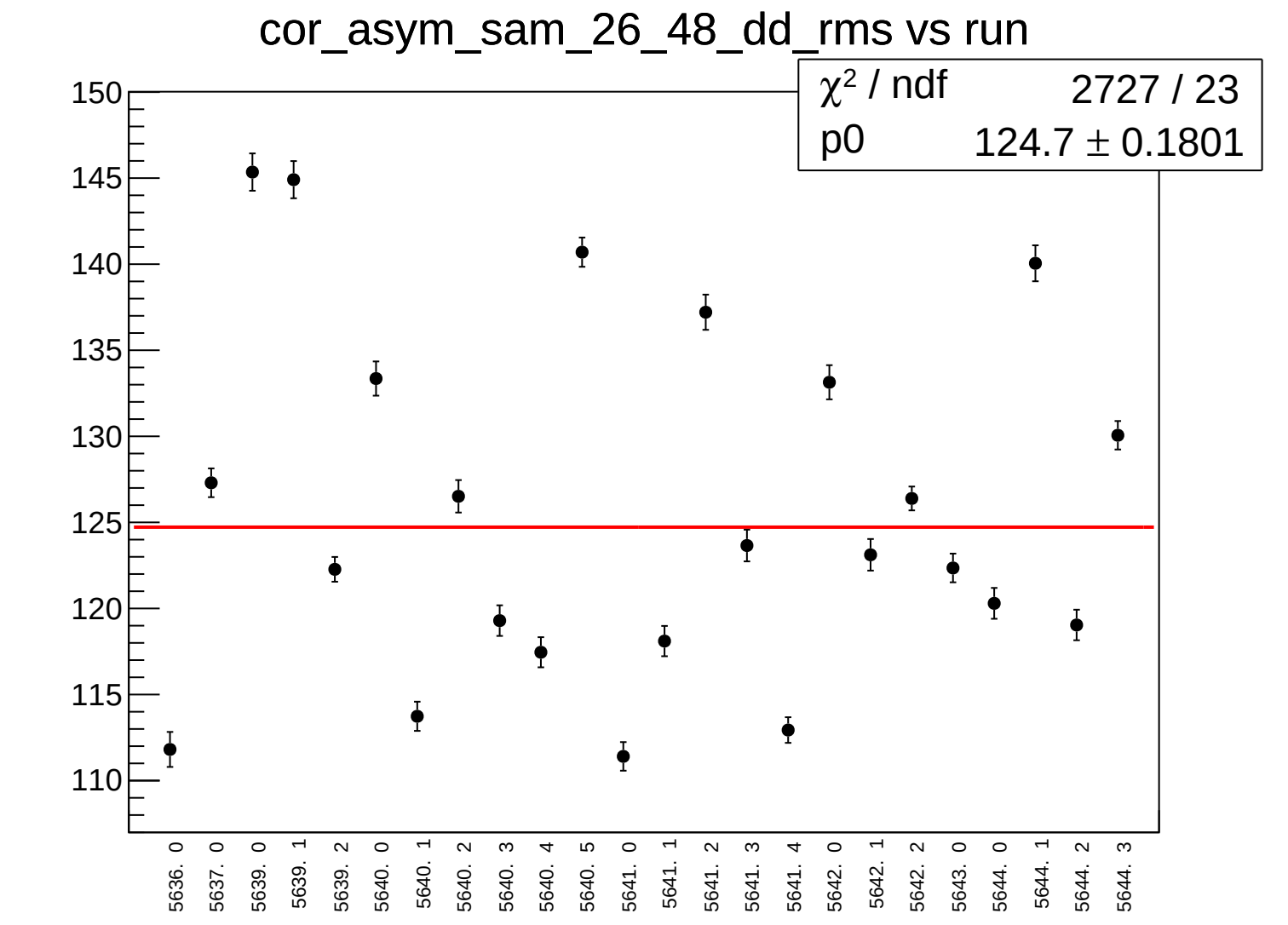

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 30.96 / 23
p0 −160.7 ± 1523
30000
20000
10000
0
−10000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 0.4889
Std Dev 10.17
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

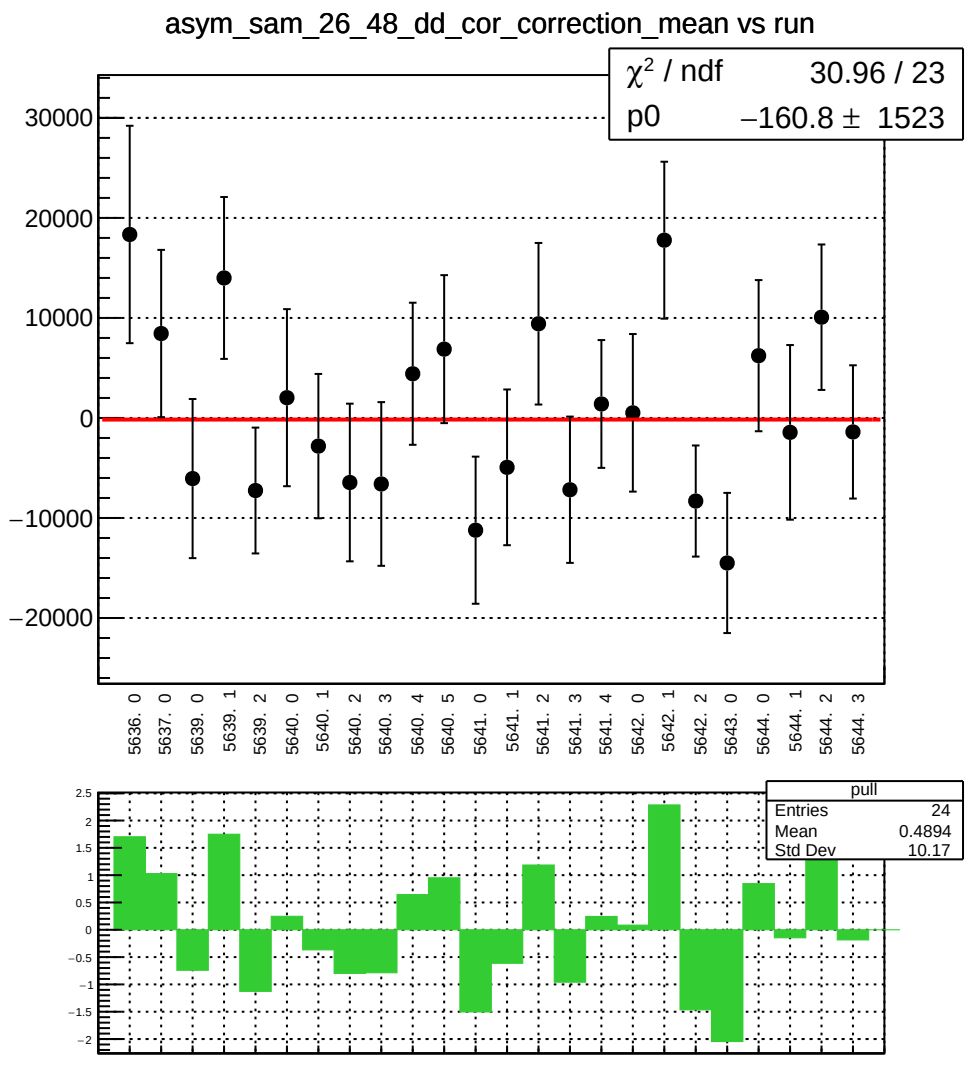

pull1D
Entries 24
Mean 0.06815
Std Dev 1.134
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

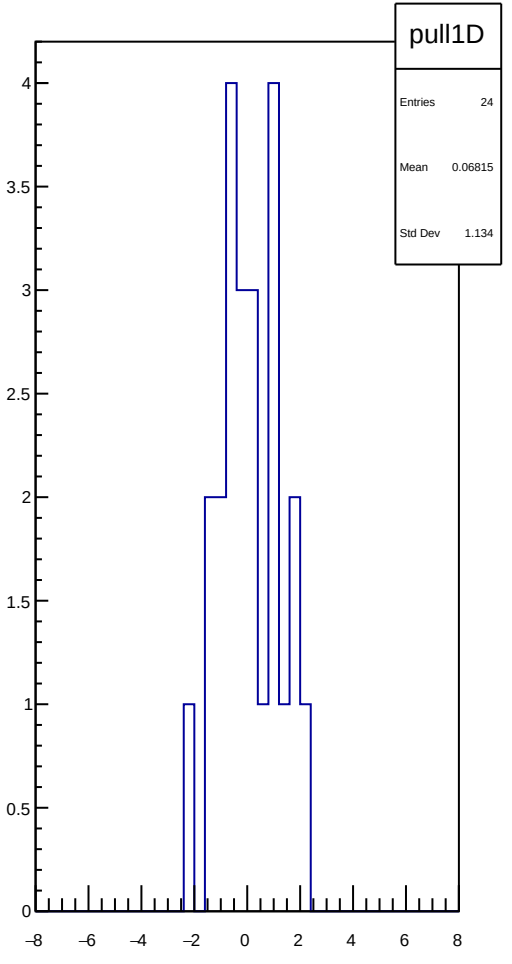

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 2784 / 23
p0 745.9 ± 1.077
900
850
800
750
700
650
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

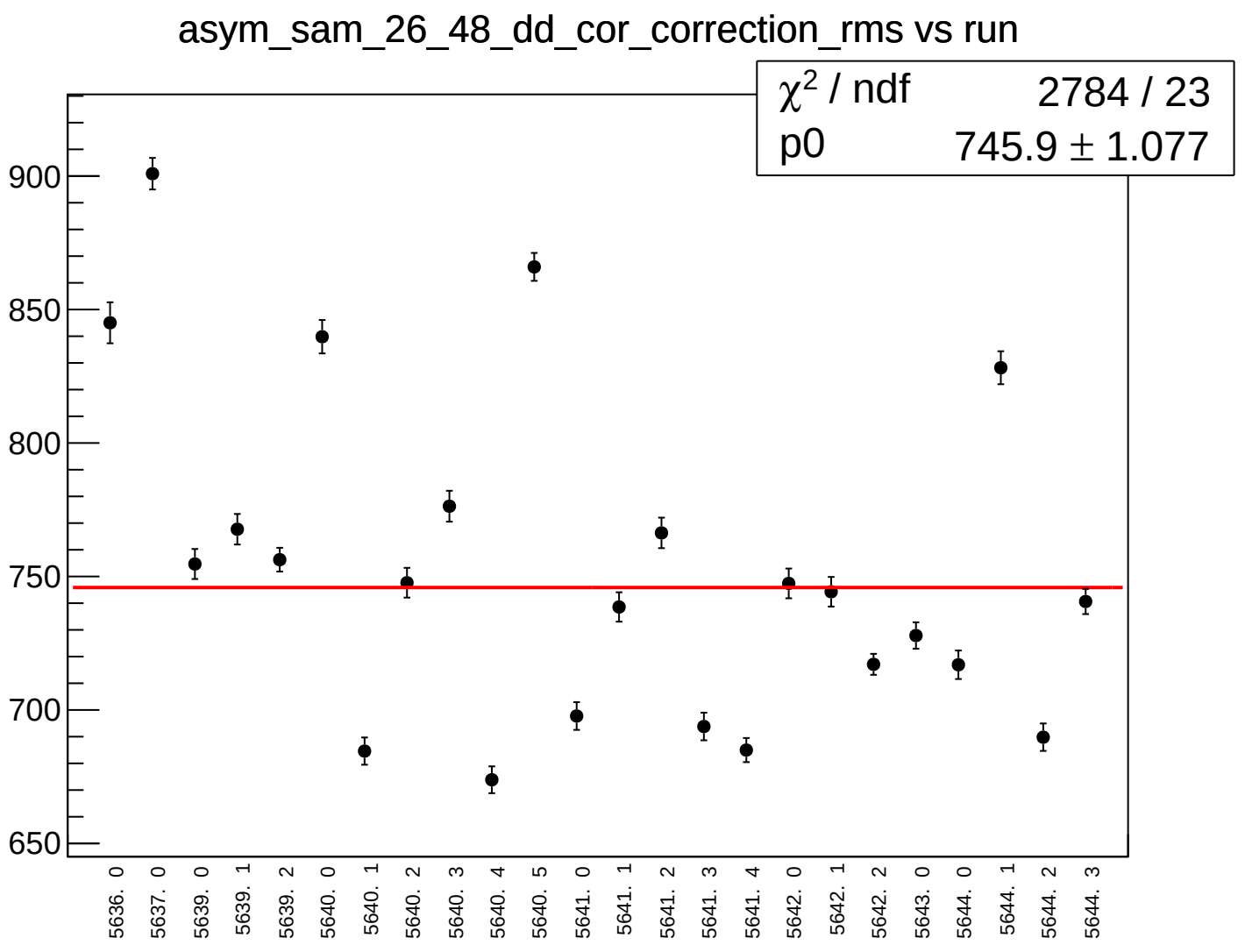

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 26.07 / 23
p0 102 ± 254.7
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −48.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

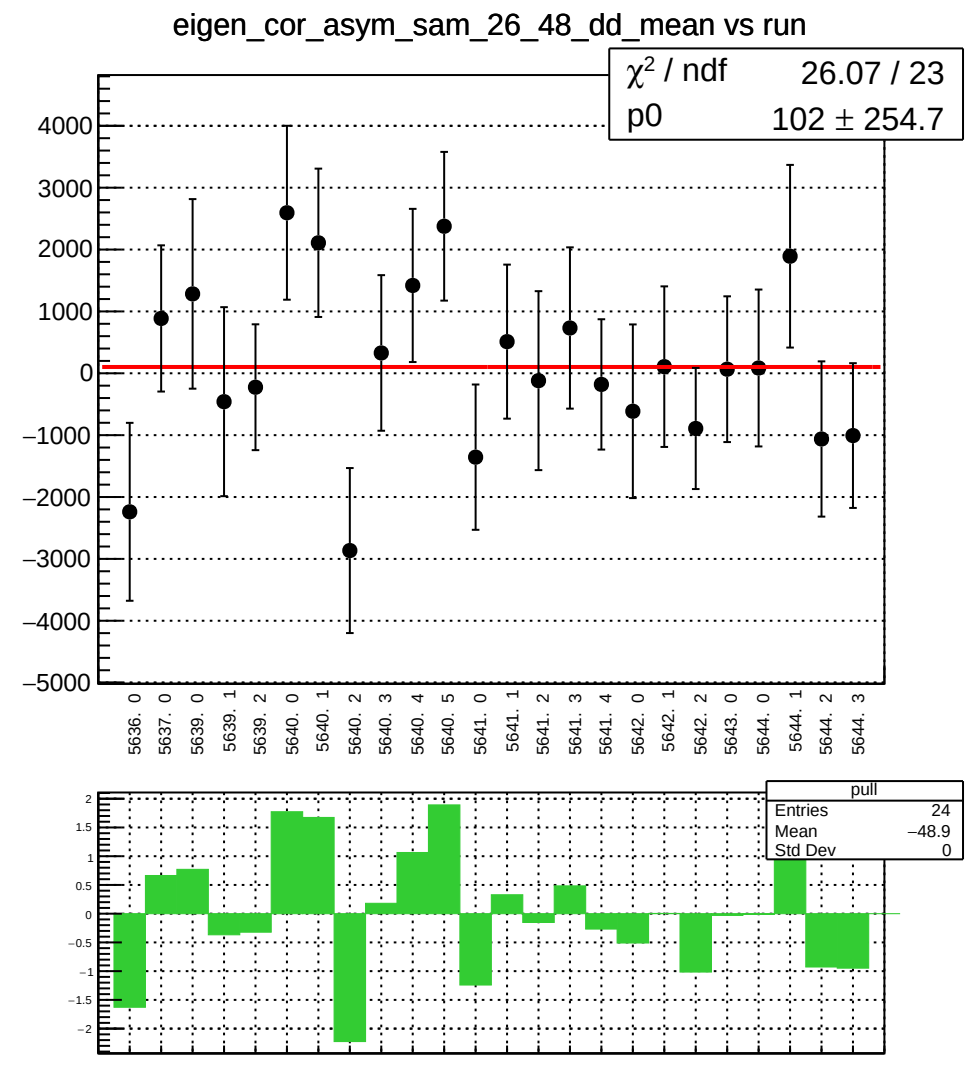

pull1D
Entries 24
Mean 0.01669
Std Dev 1.042
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

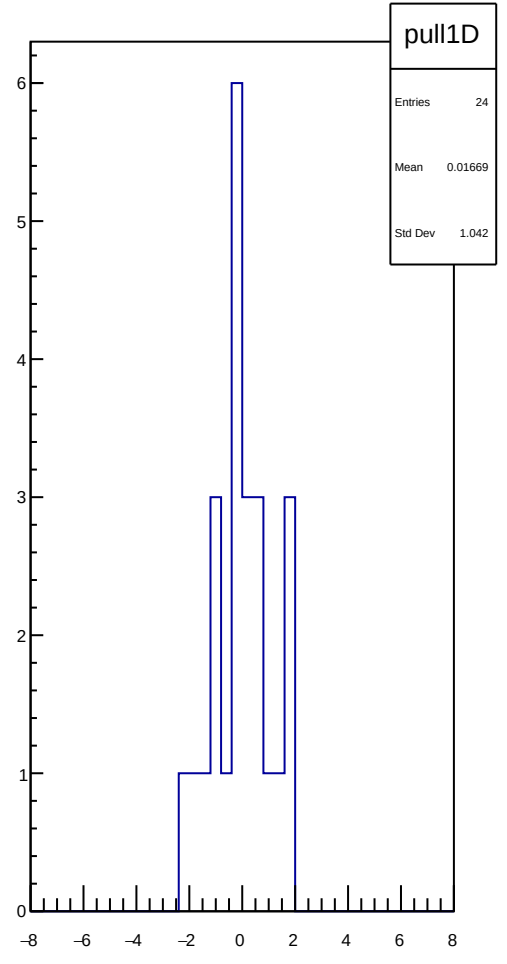

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 2727 / 23
p0 124.7 ± 0.1801
150
145
140
135
130
125
120
115
110
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

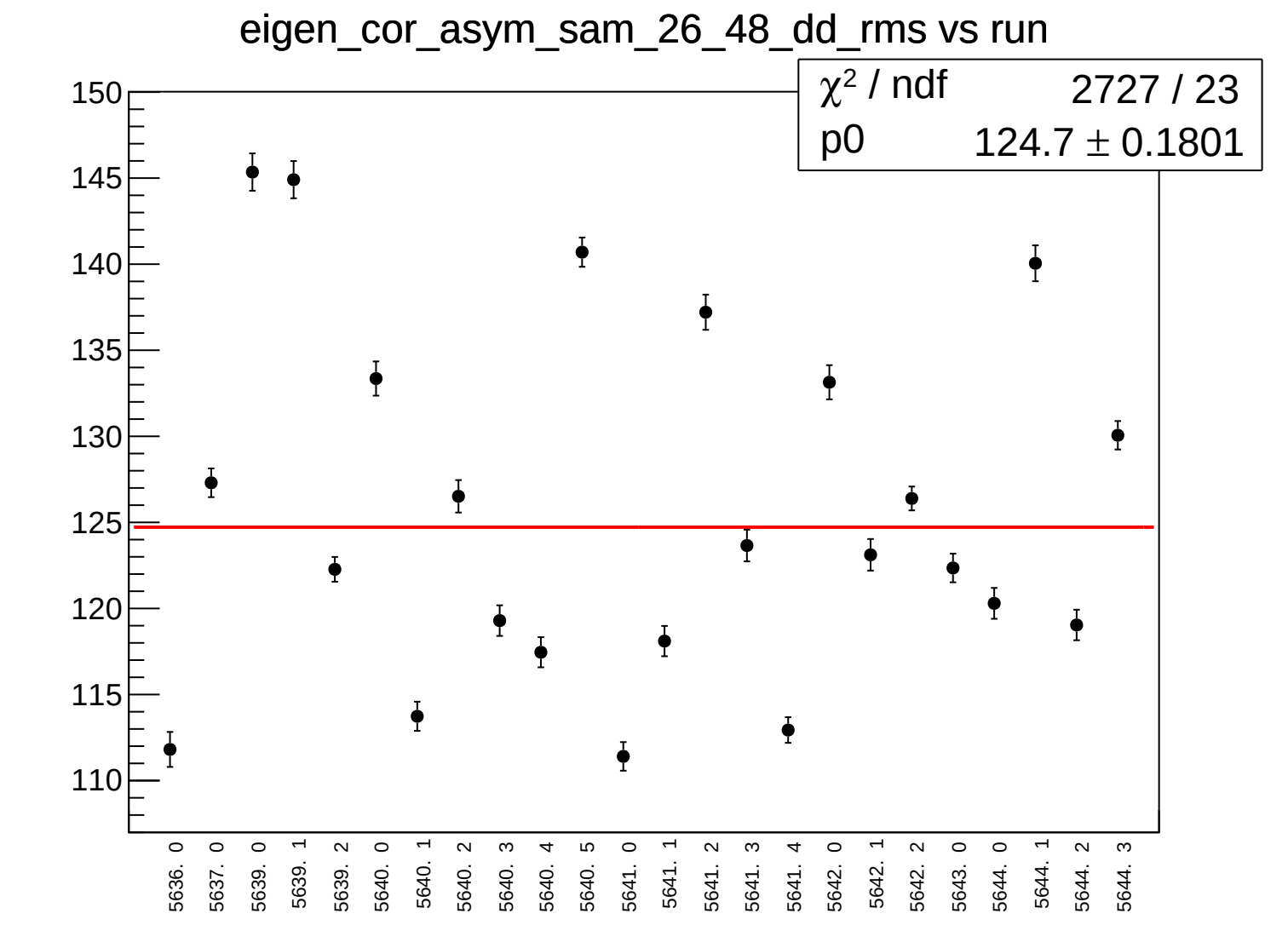

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 30.96 / 23
p0 −160.8 ± 1523
30000
20000
10000
0
−10000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 0.4894
Std Dev 10.17
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

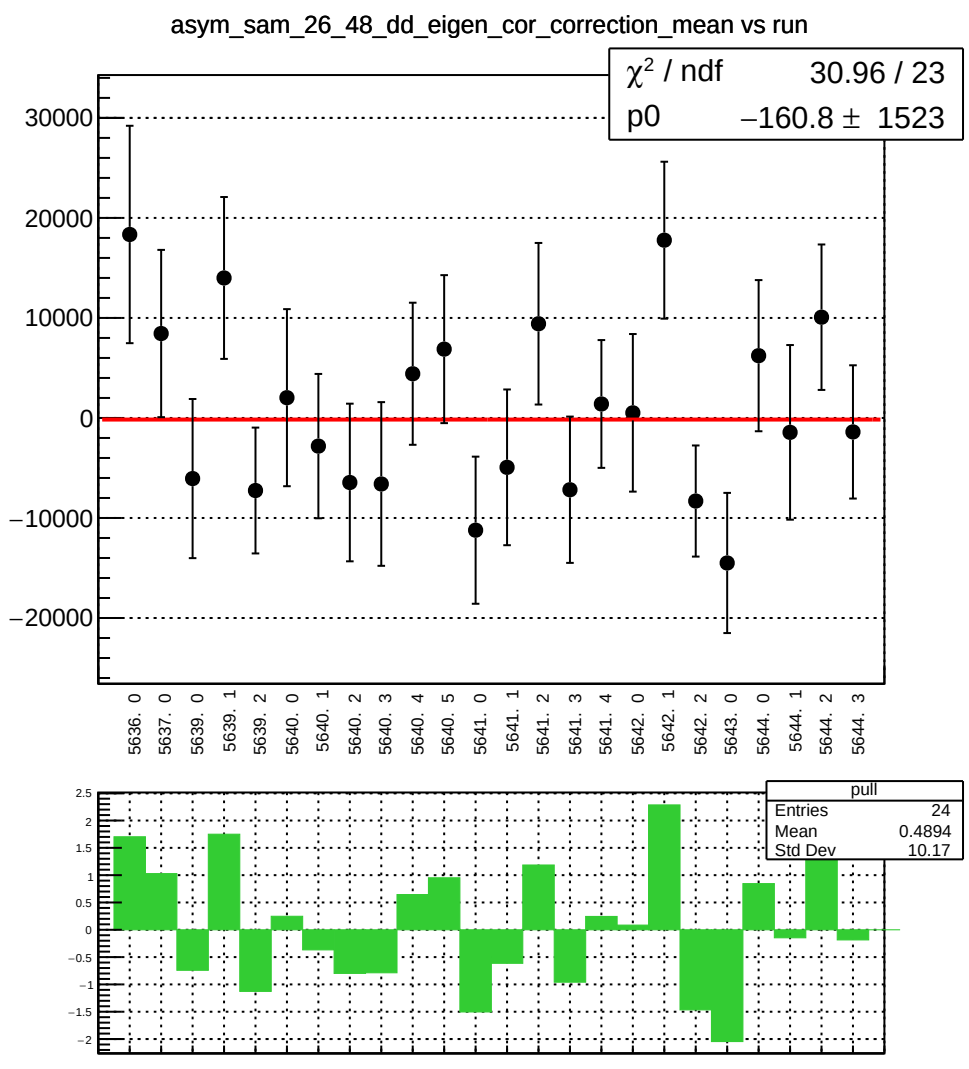

pull1D
Entries 24
Mean 0.06815
Std Dev 1.134
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

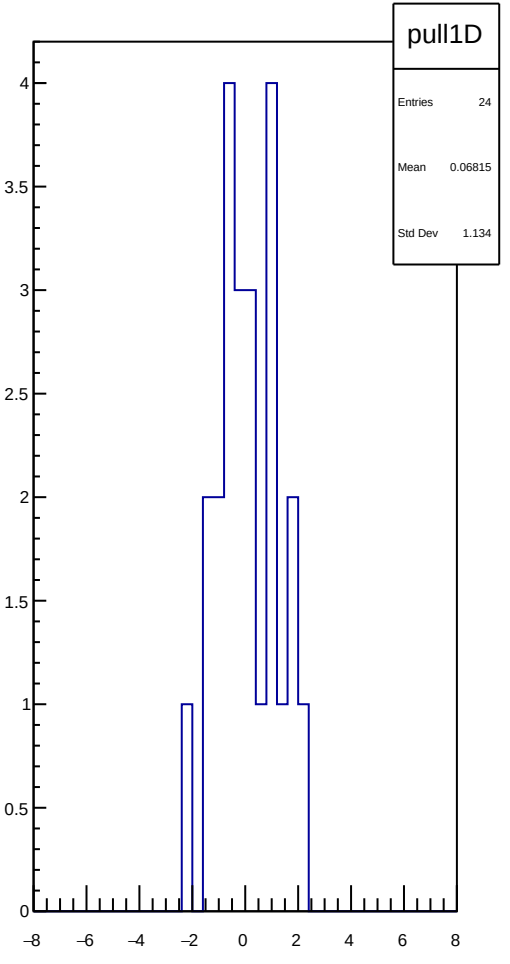

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 2784 / 23
p0 745.9 ± 1.077
900
850
800
750
700
650
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

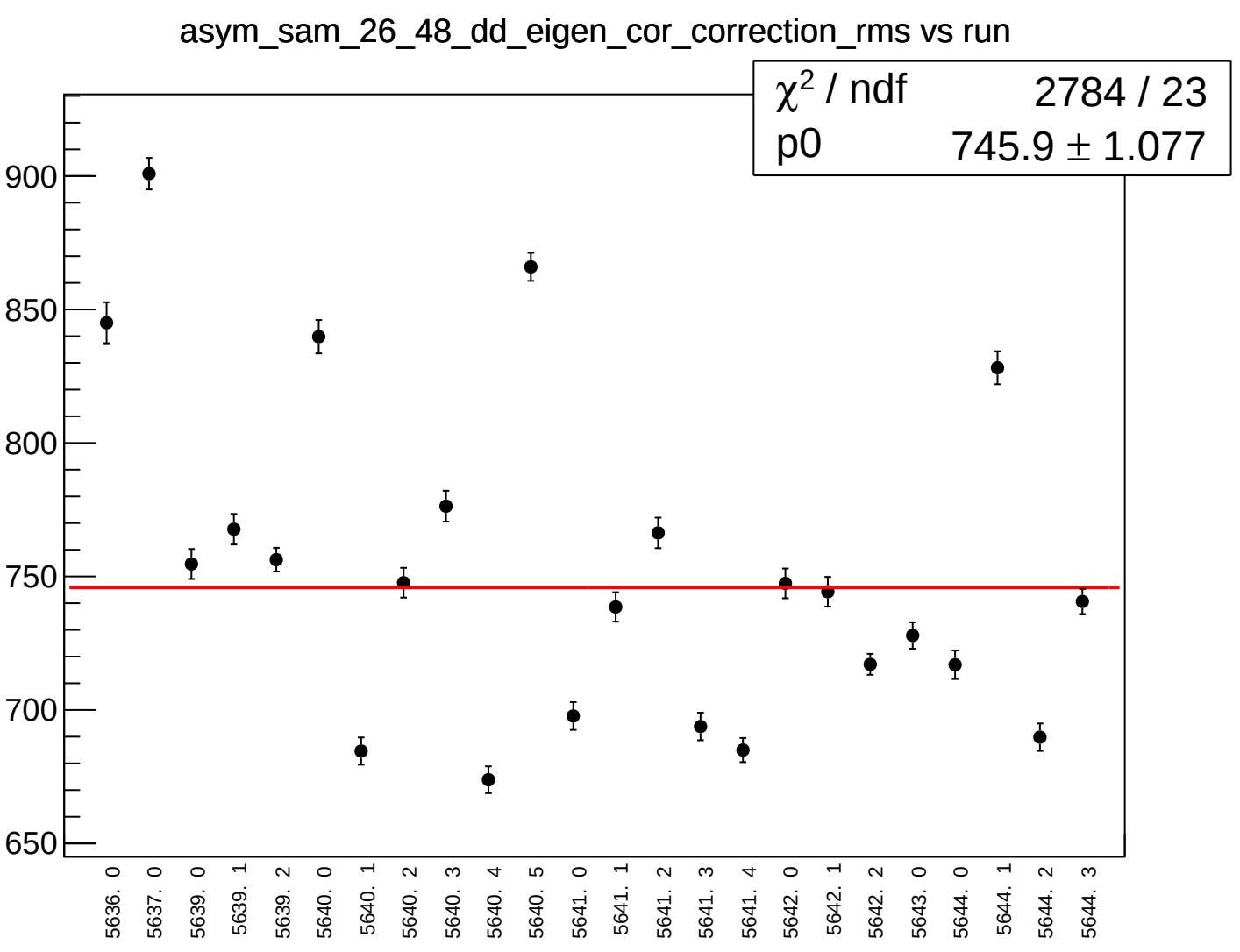

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 26.07 / 23
p0 102 ± 254.7
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −48.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

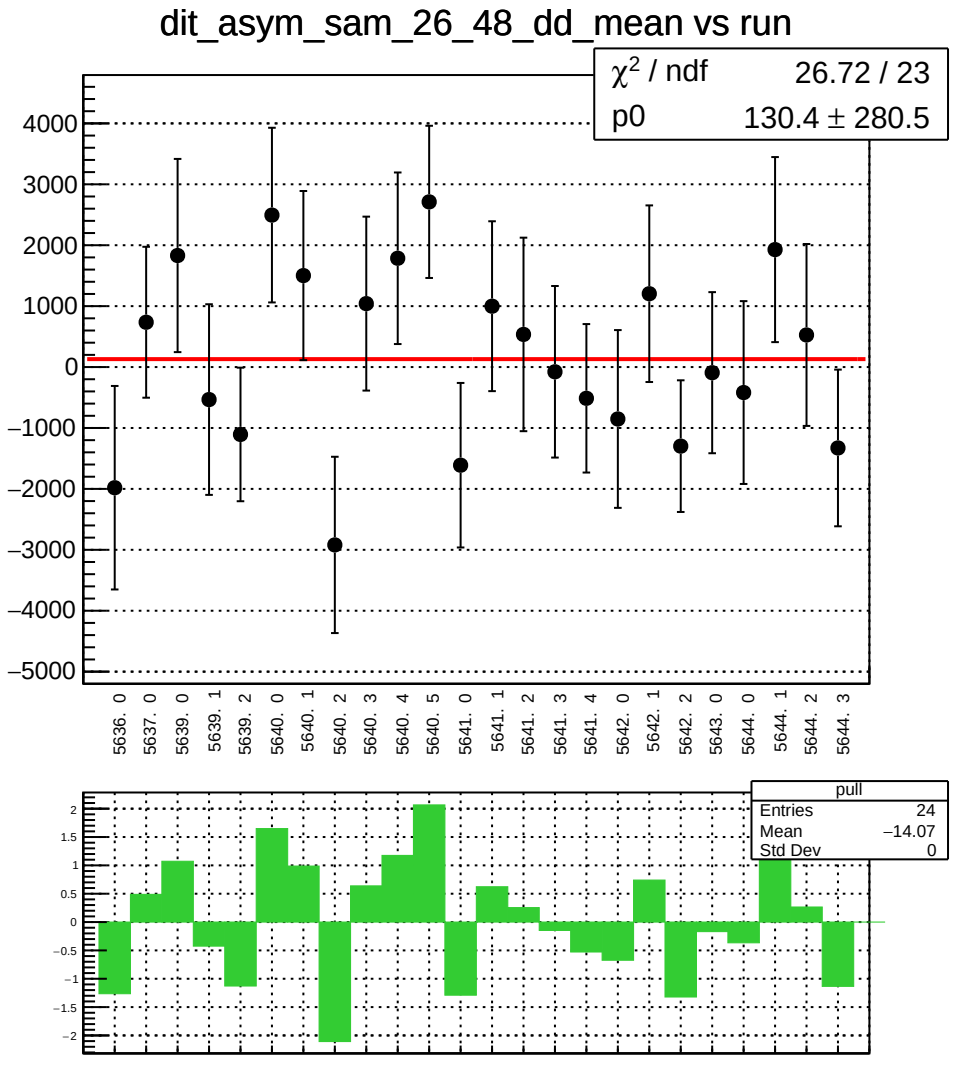

pull1D
Entries 24
Mean 0.01669
Std Dev 1.042
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

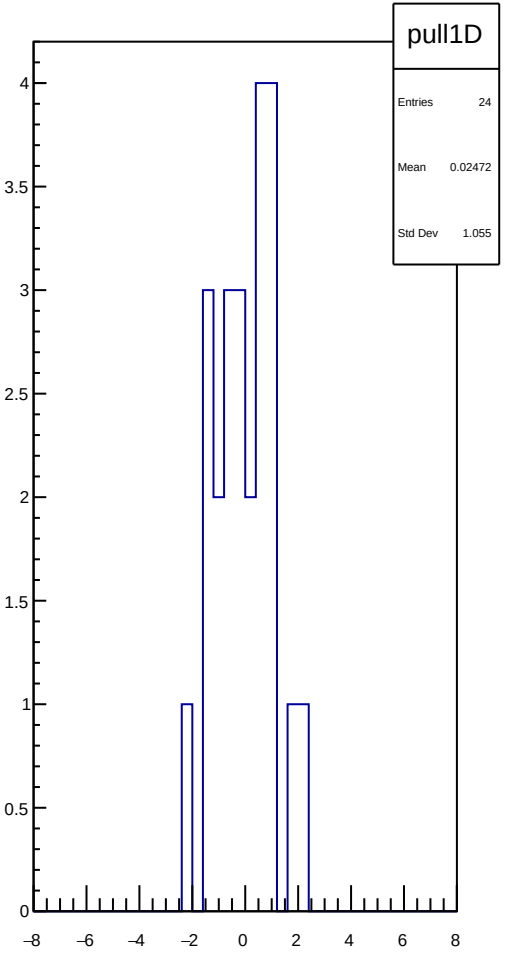

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 2727 / 23
p0 124.7 ± 0.1801
150
145
140
135
130
125
120
115
110
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

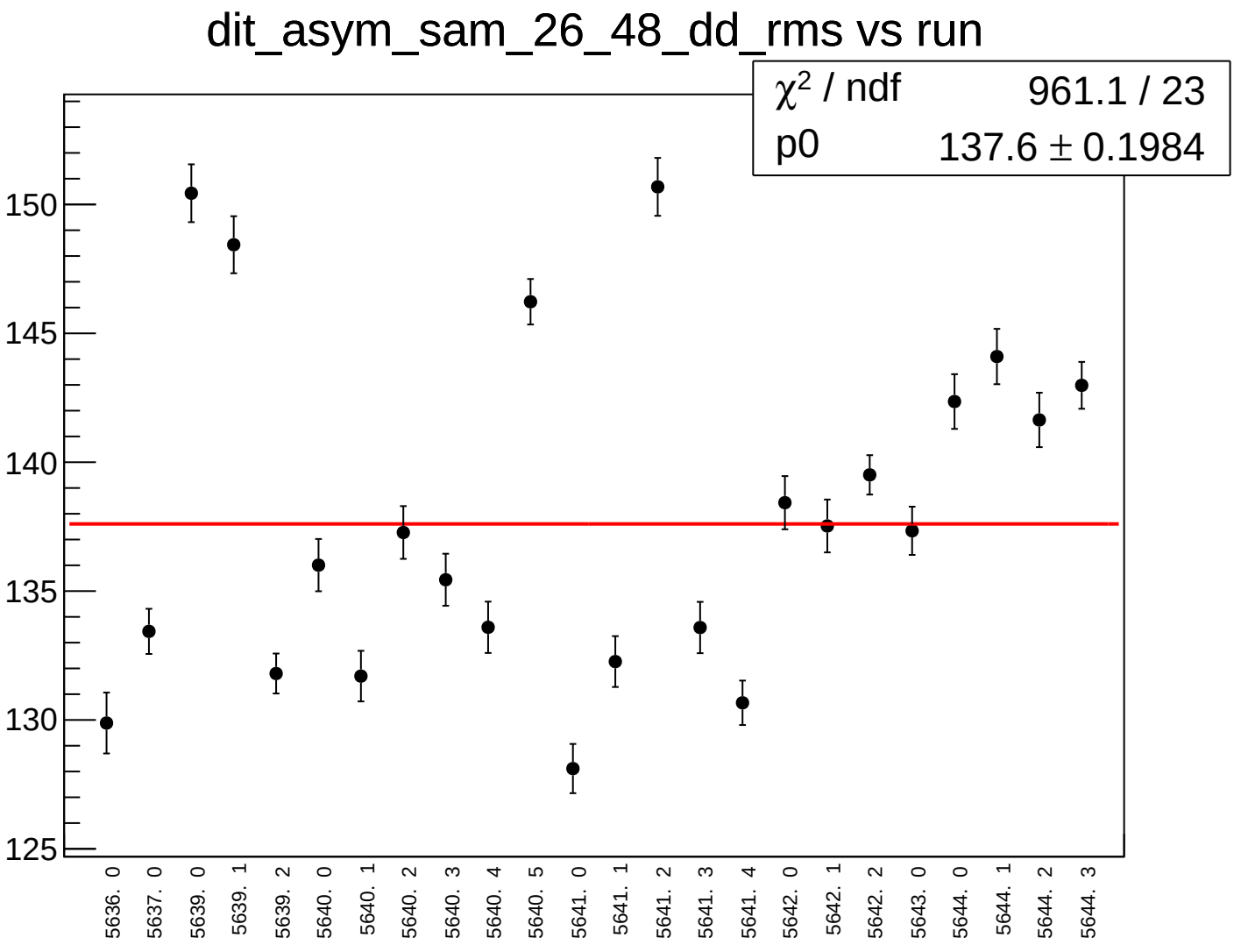

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 30.96 / 23
p0 −160.8 ± 1523
30000
20000
10000
0
−10000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 0.4894
Std Dev 10.17
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

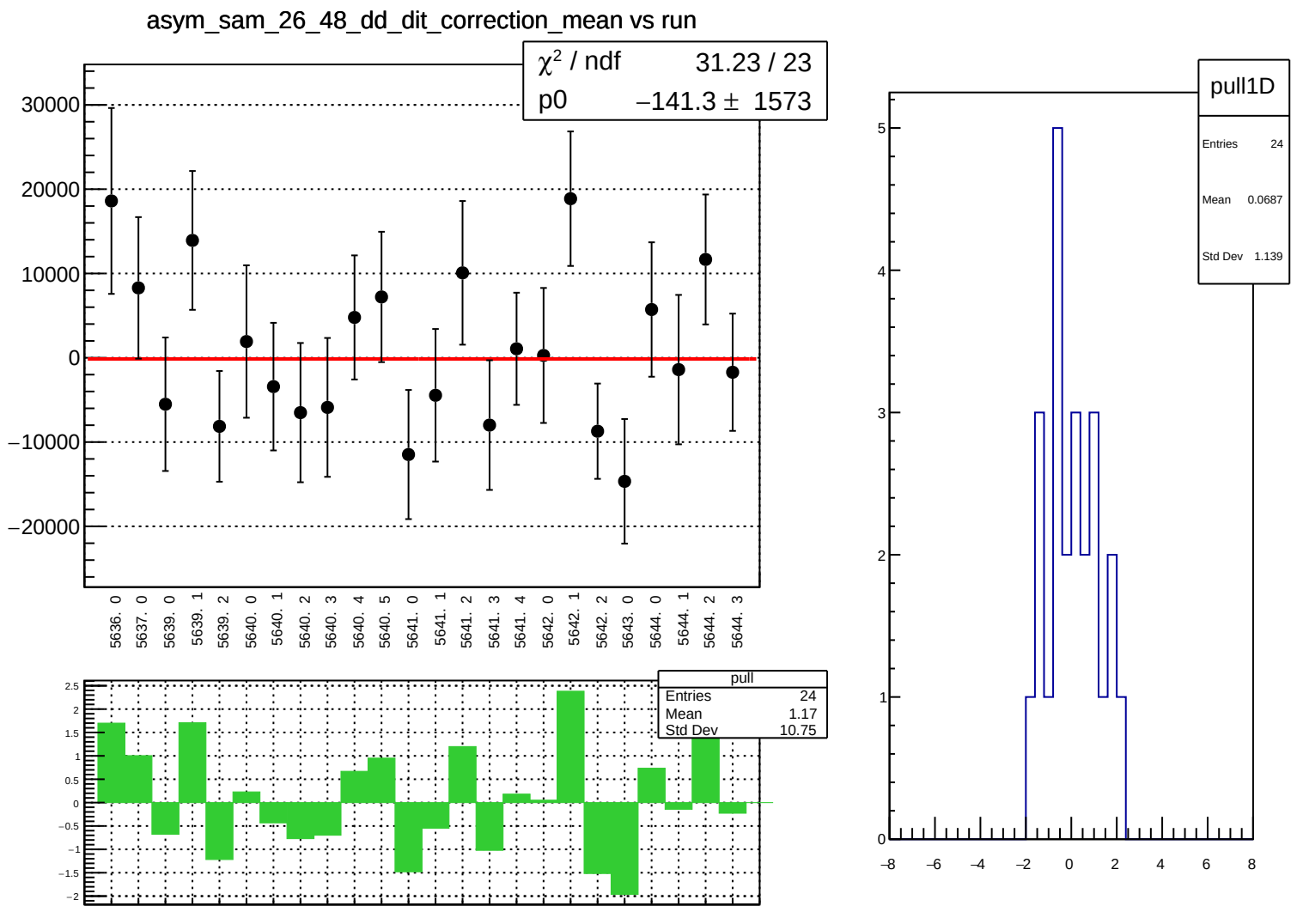

pull1D
Entries 24
Mean 0.06815
Std Dev 1.134
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

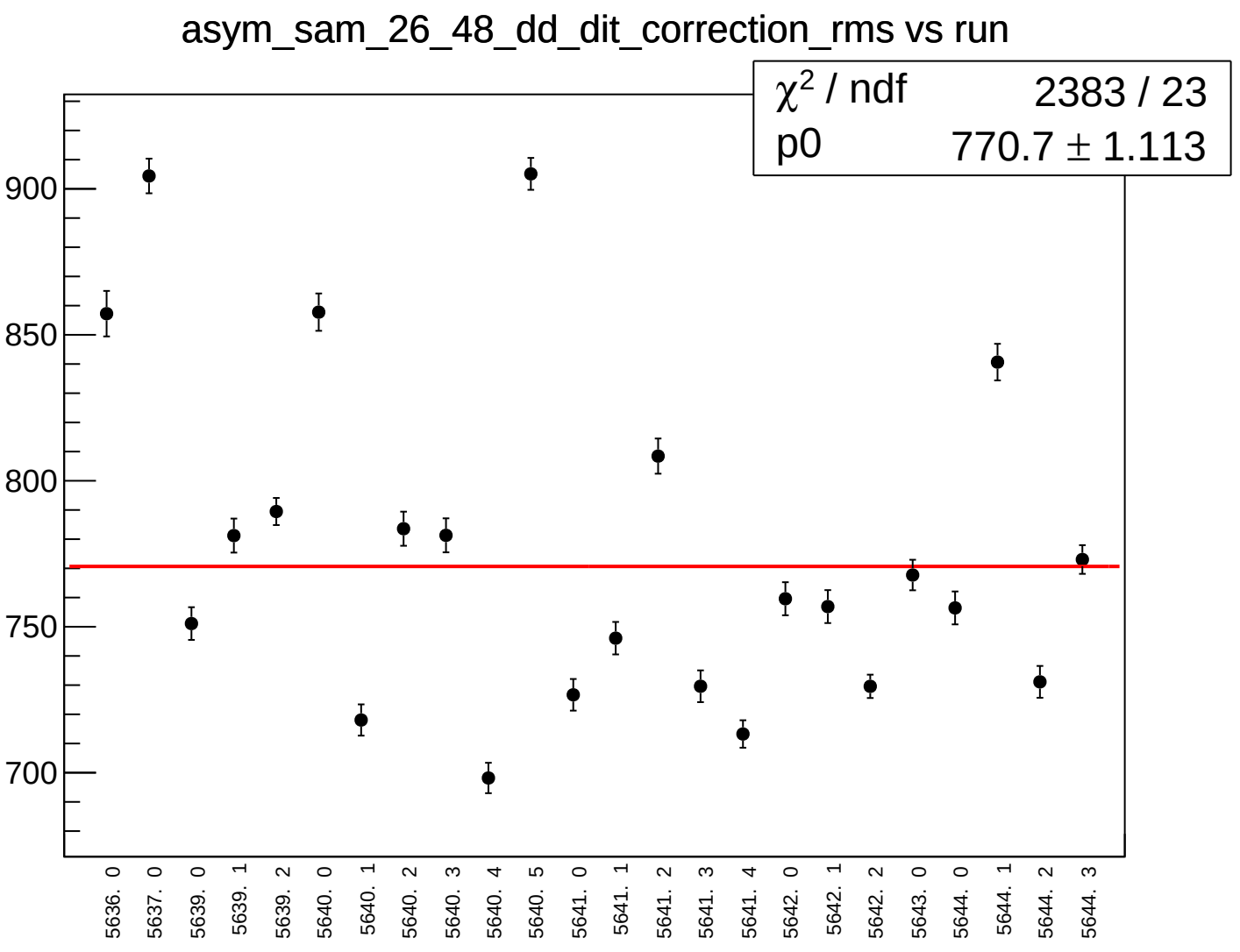

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2784 / 23
p0 745.9 ± 1.077
900
850
800
750
700
650
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

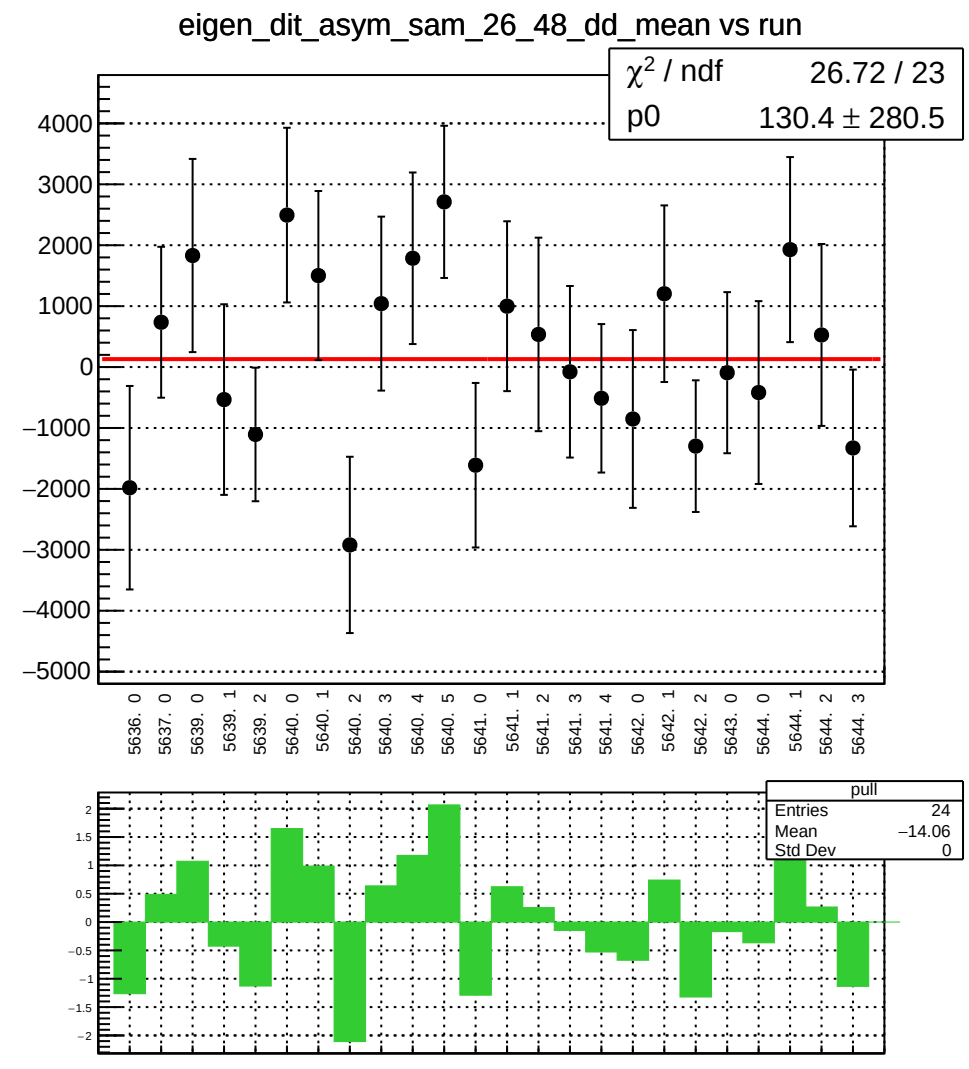

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 26.72 / 23
p0 130.4 ± 280.5
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −14.07
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

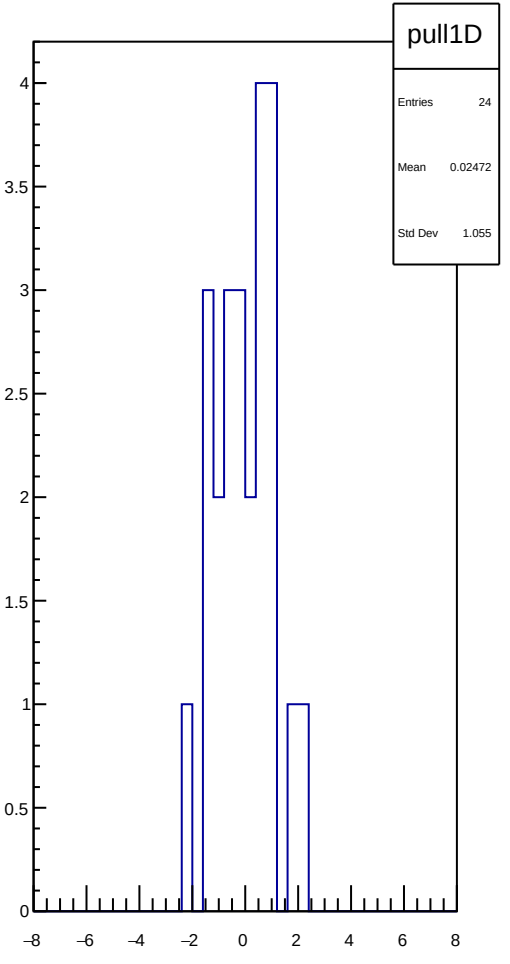

pull1D
Entries 24
Mean 0.02472
Std Dev 1.055
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

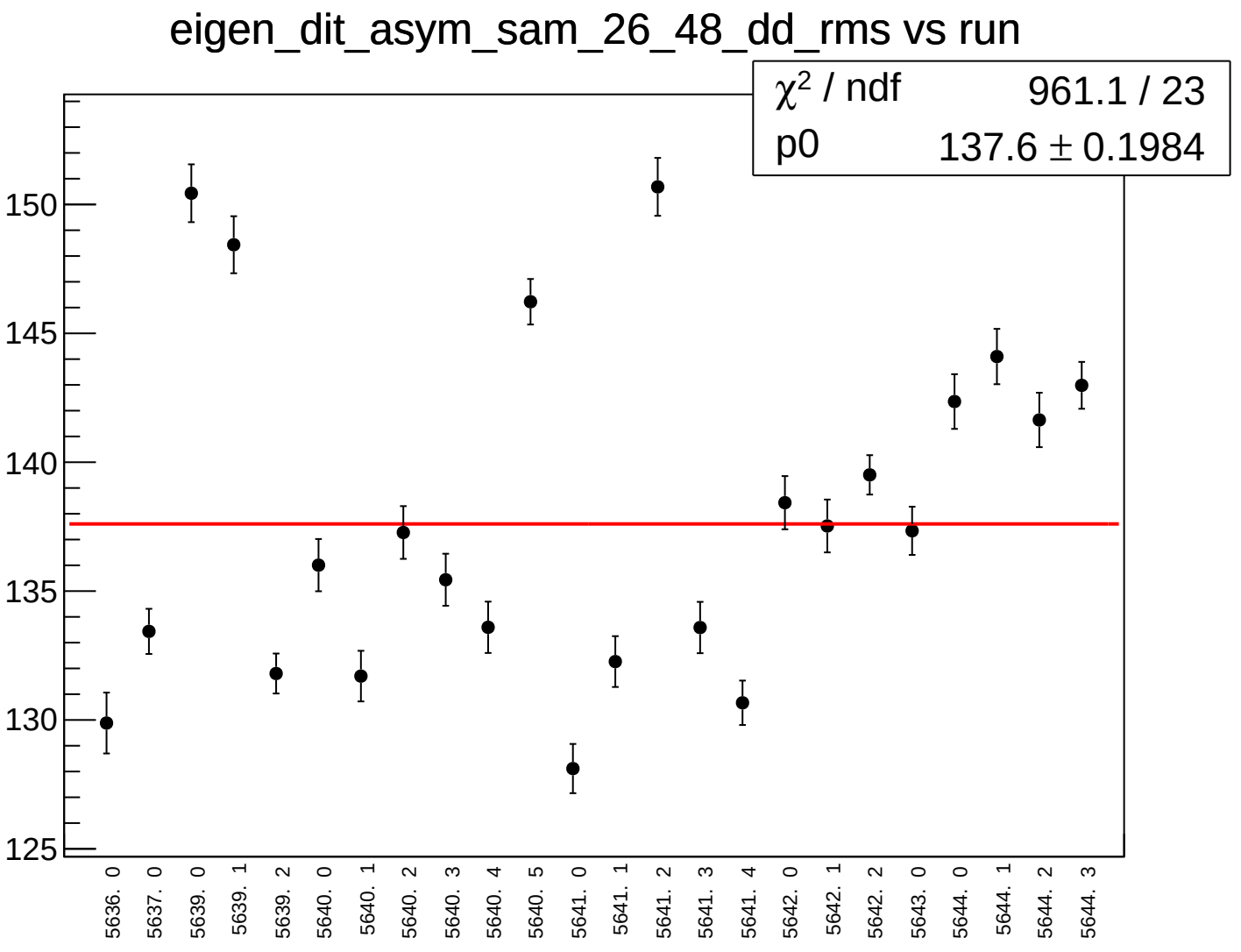

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 961.1 / 23
p0 137.6 ± 0.1984
150
145
140
135
130
125
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

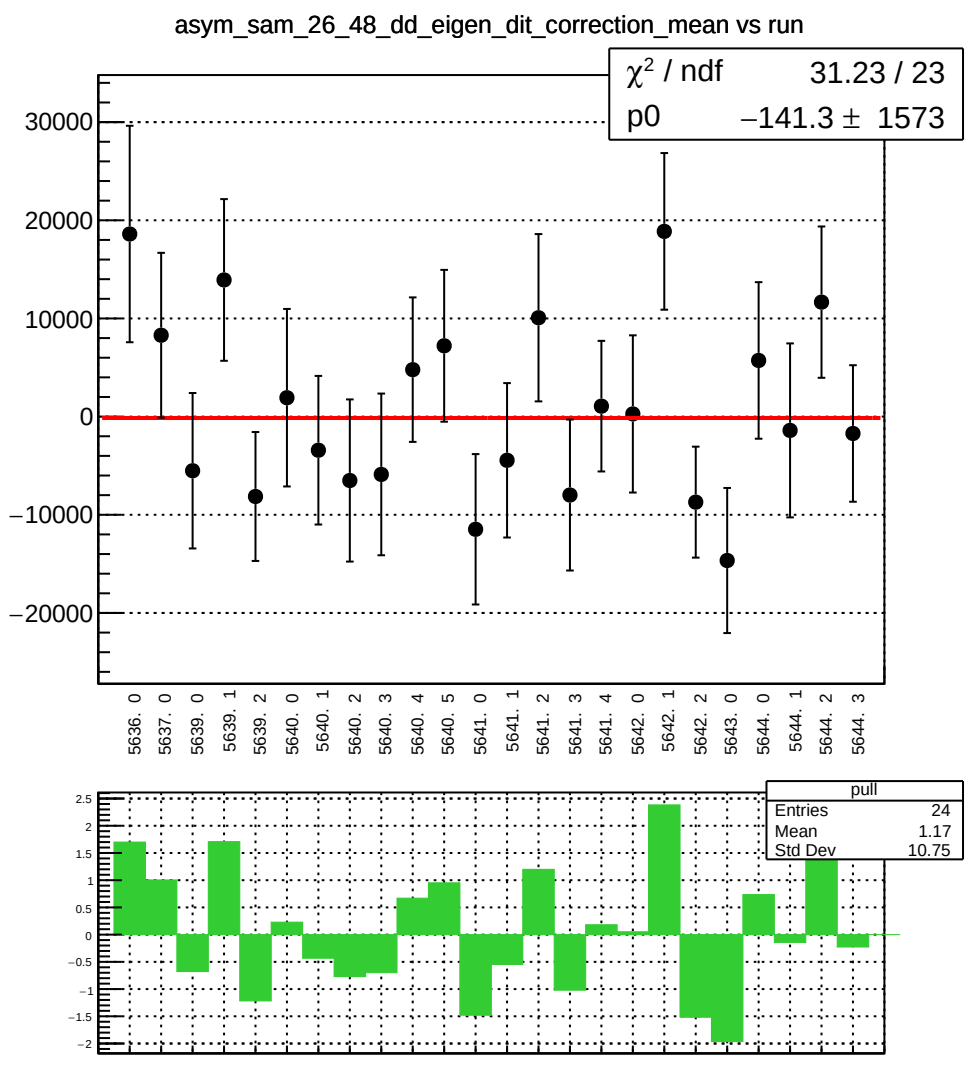

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 31.23 / 23
p0 −141.3 ± 1573
30000
20000
10000
0
−10000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 1.17
Std Dev 10.75
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.0687
Std Dev 1.139
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

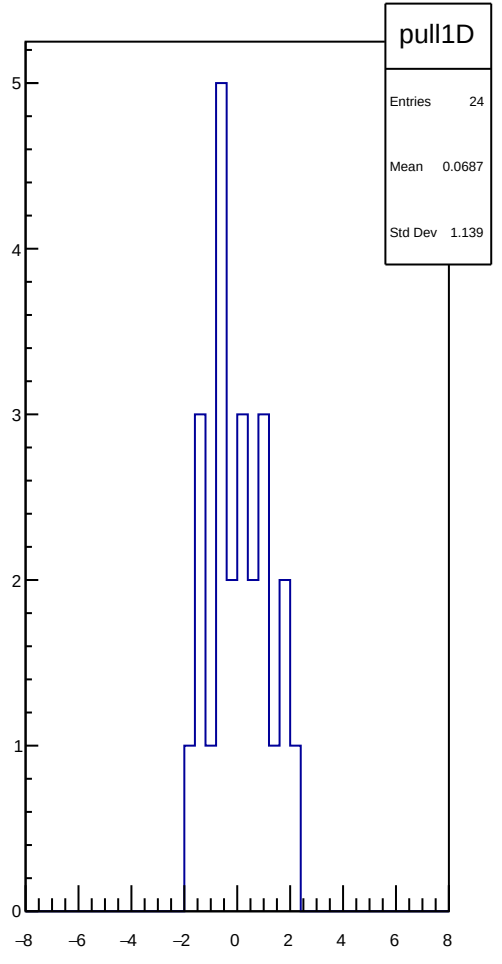

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 2383 / 23
p0 770.7 ± 1.113
900
850
800
750
700
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

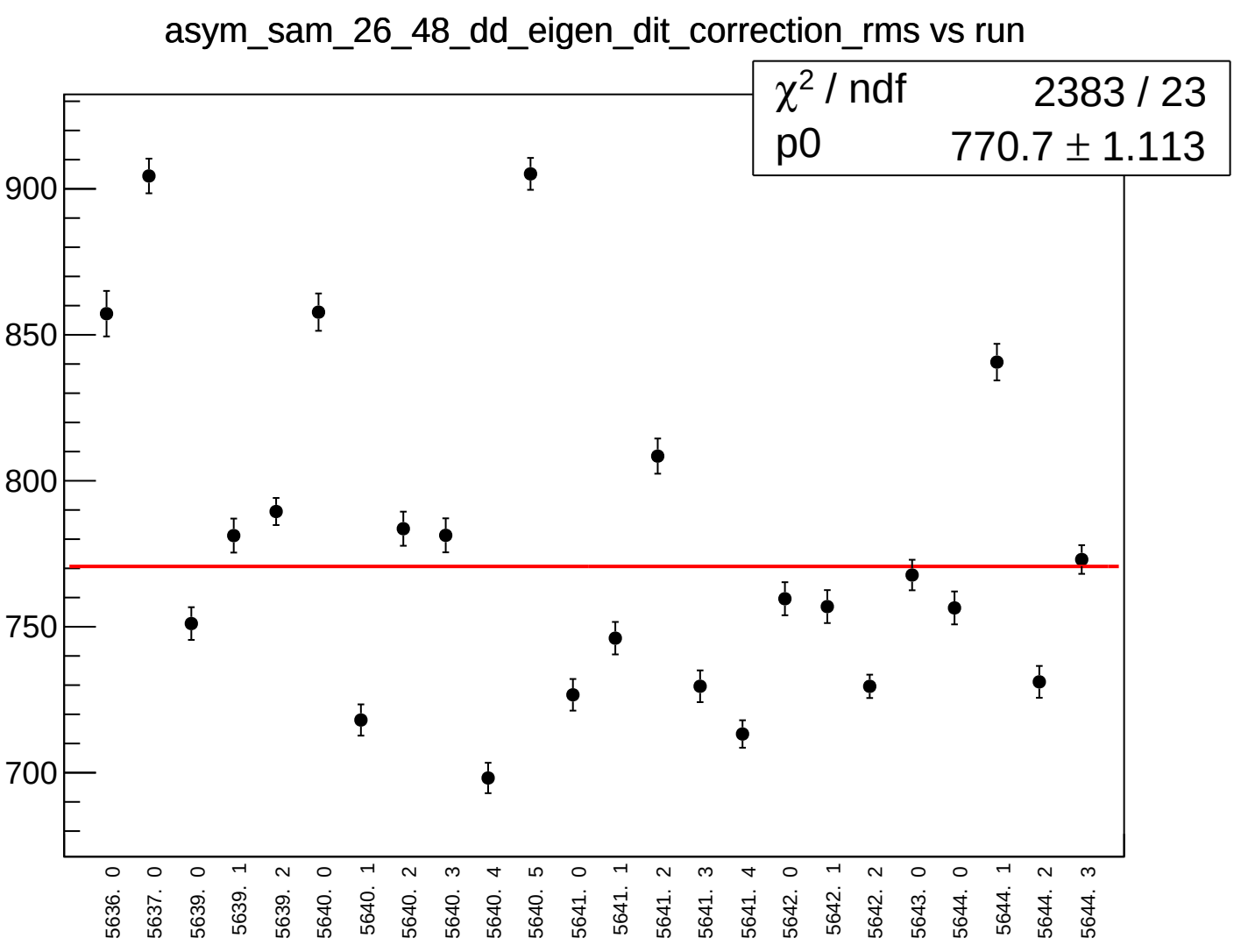

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 26.72 / 23
p0 130.4 ± 280.5
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −14.06
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

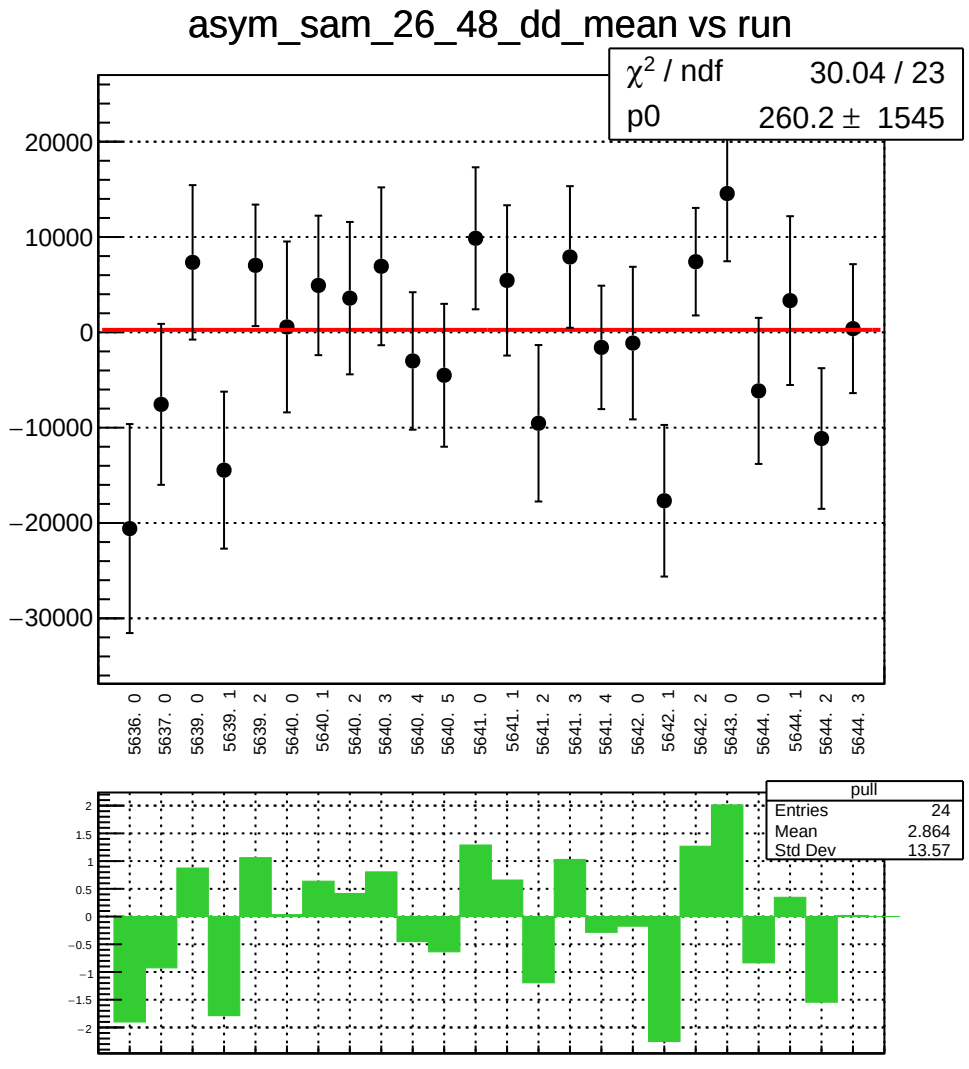

pull1D
Entries 24
Mean 0.02472
Std Dev 1.055
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

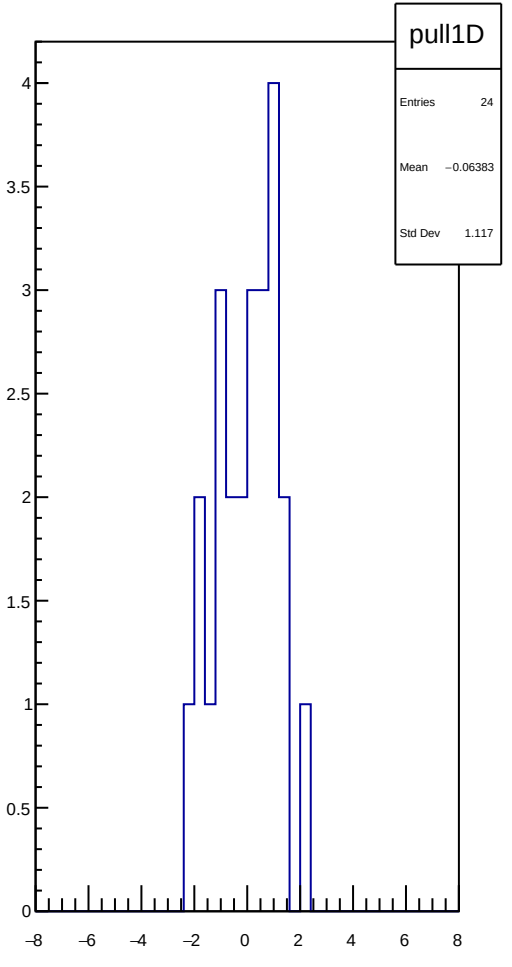

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 961.1 / 23
p0 137.6 ± 0.1984
150
145
140
135
130
125
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

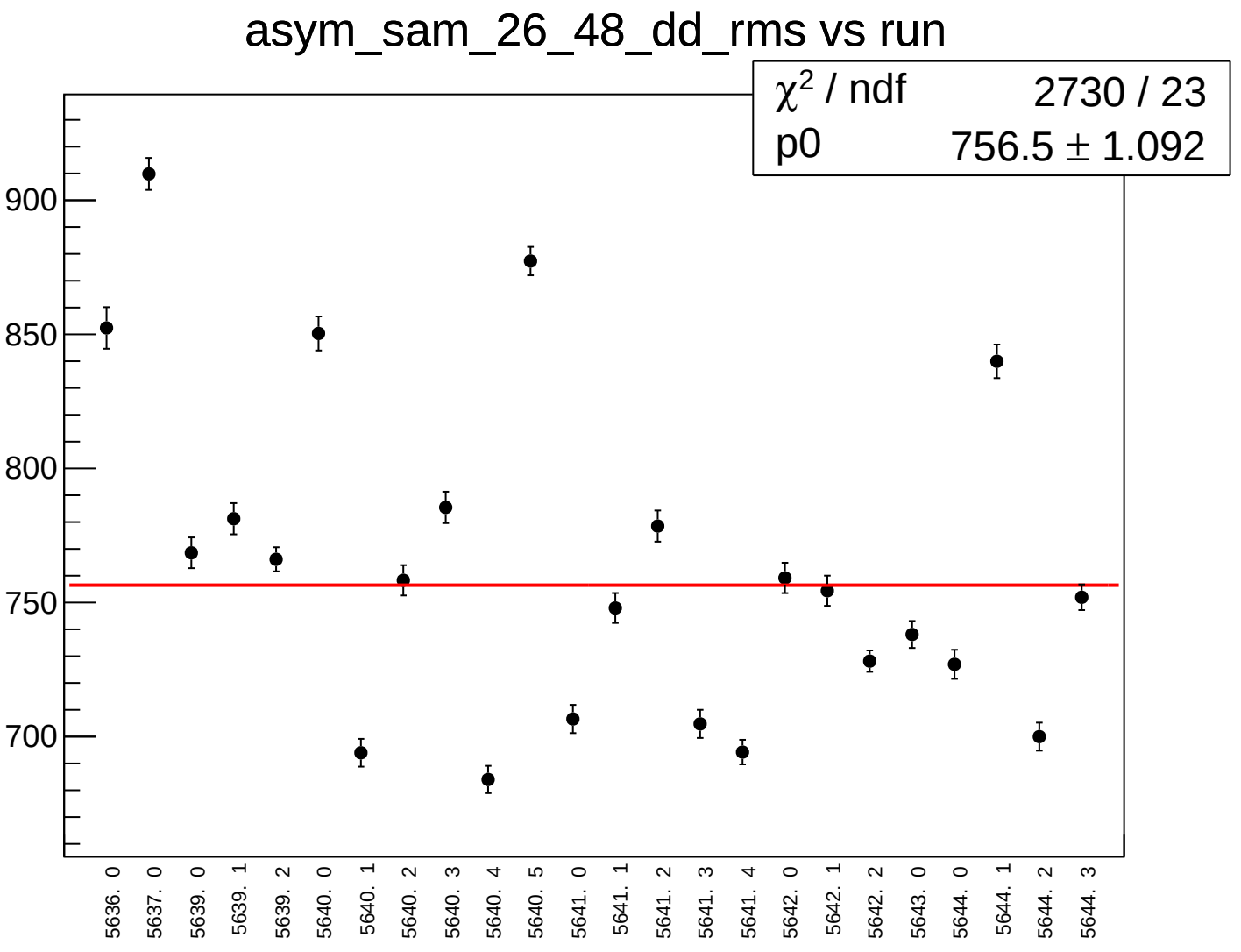

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 31.23 / 23
p0 −141.3 ± 1573
30000
20000
10000
0
−10000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 1.17
Std Dev 10.75
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

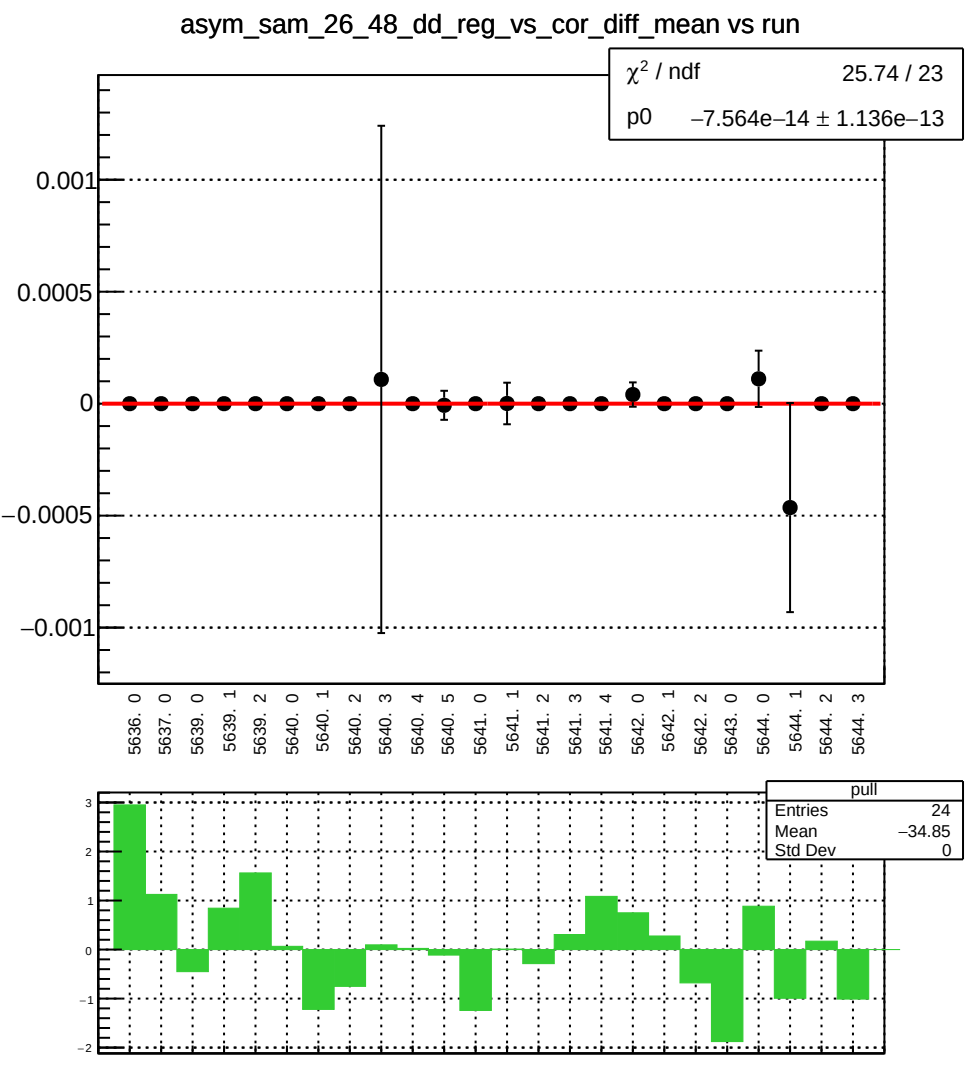

pull1D
Entries 24
Mean 0.0687
Std Dev 1.139
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

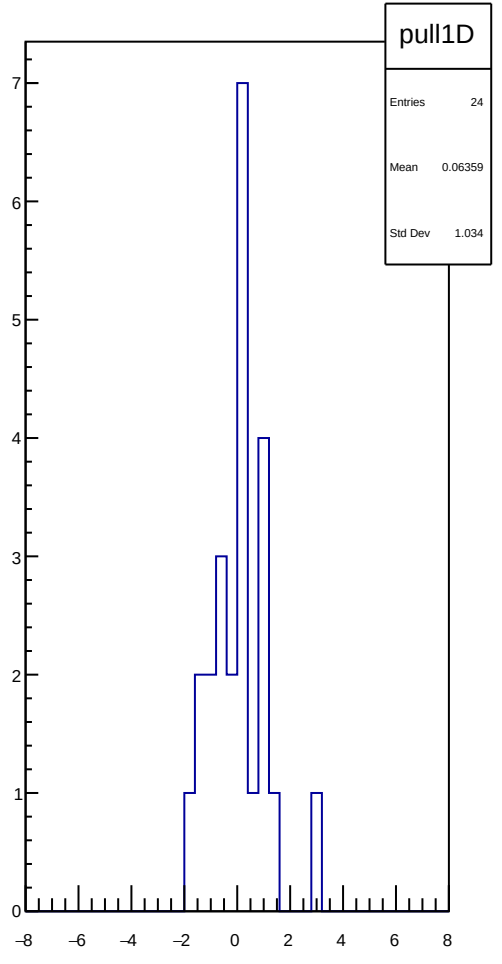

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2383 / 23
p0 770.7 ± 1.113
900
850
800
750
700
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

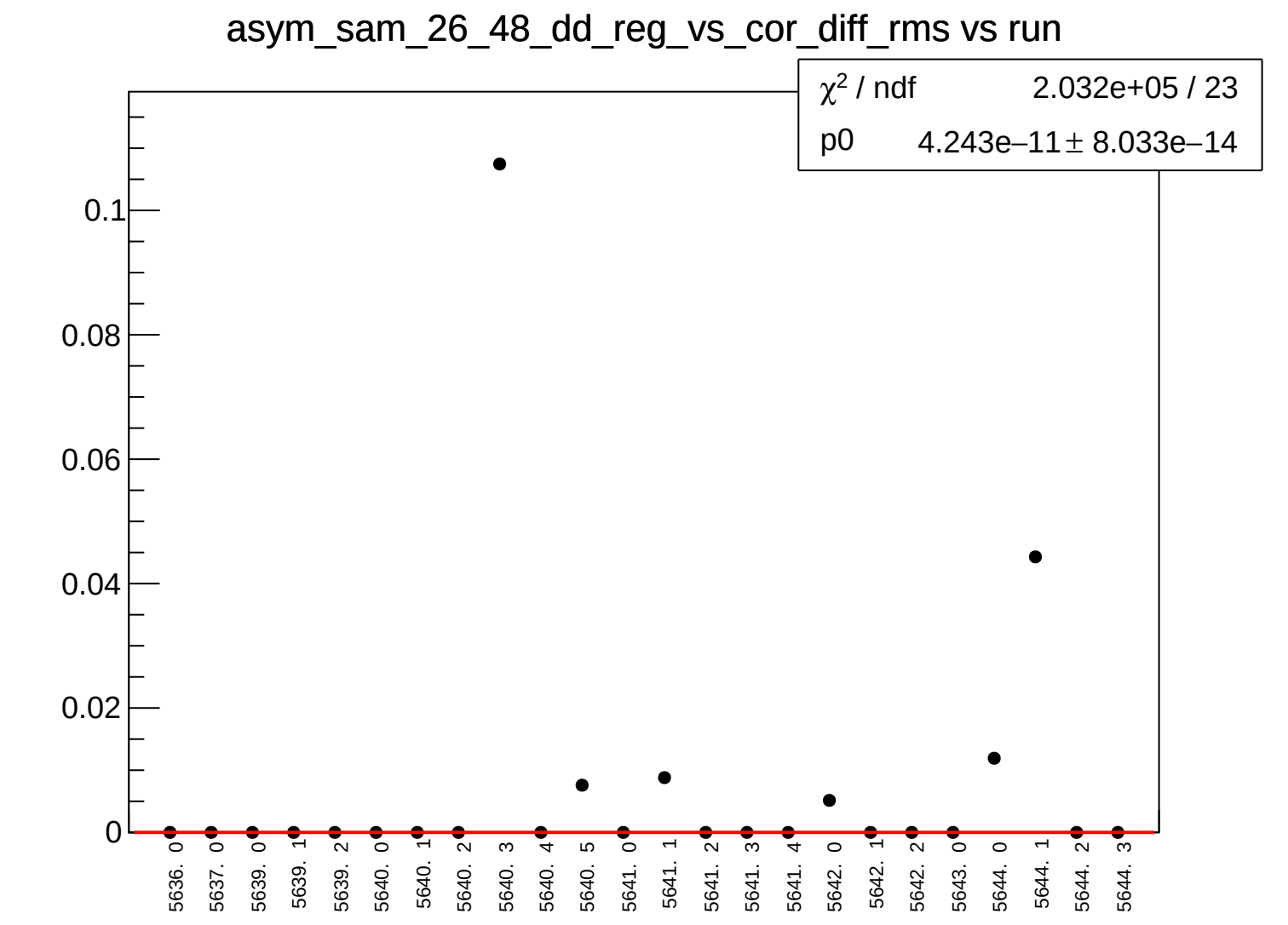

asym_sam_26_48_dd_mean vs run
χ² / ndf 30.04 / 23
p0 260.2 ± 1545
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 2.864
Std Dev 13.57
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

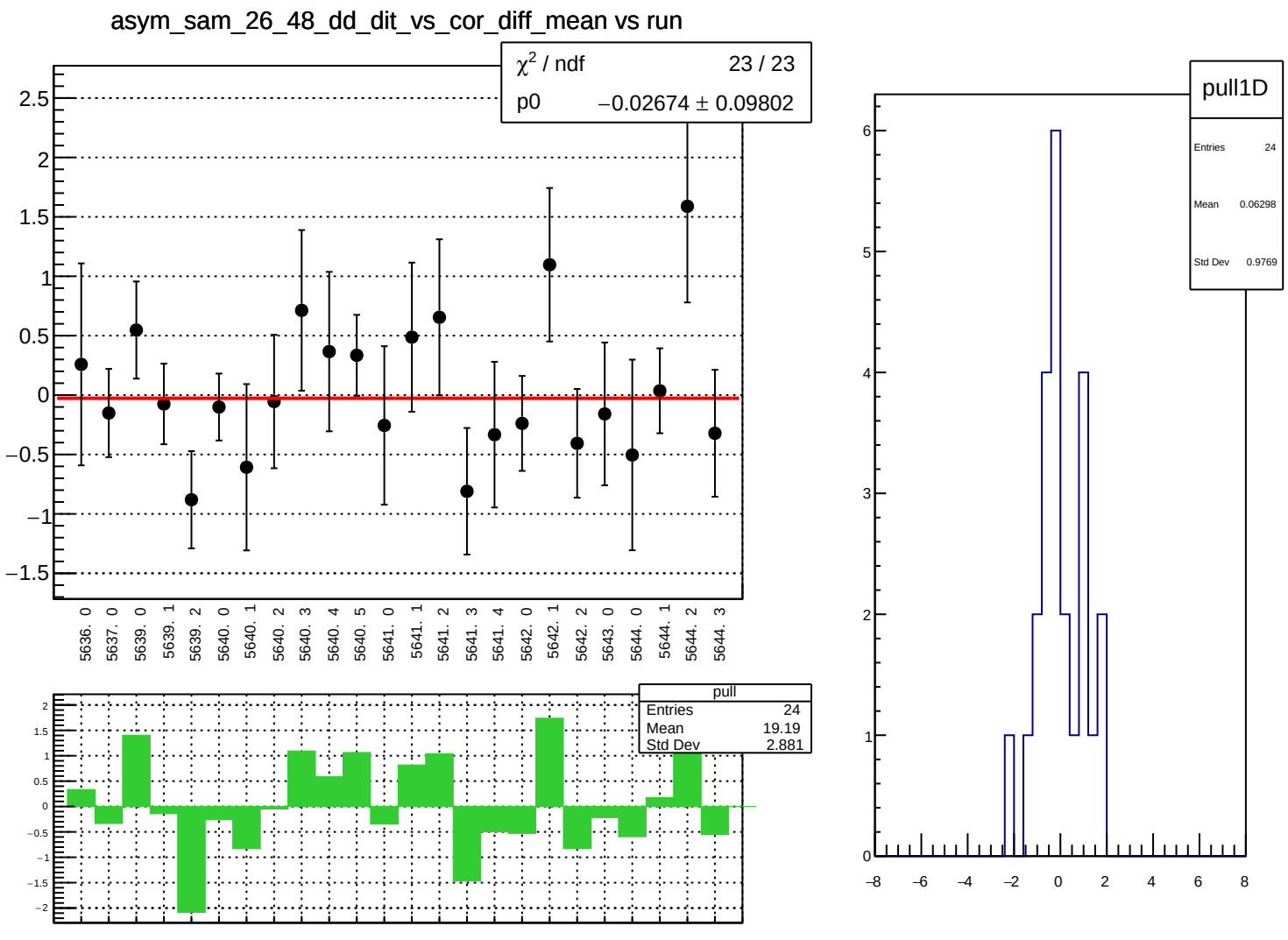

pull1D
Entries 24
Mean −0.06383
Std Dev 1.117
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

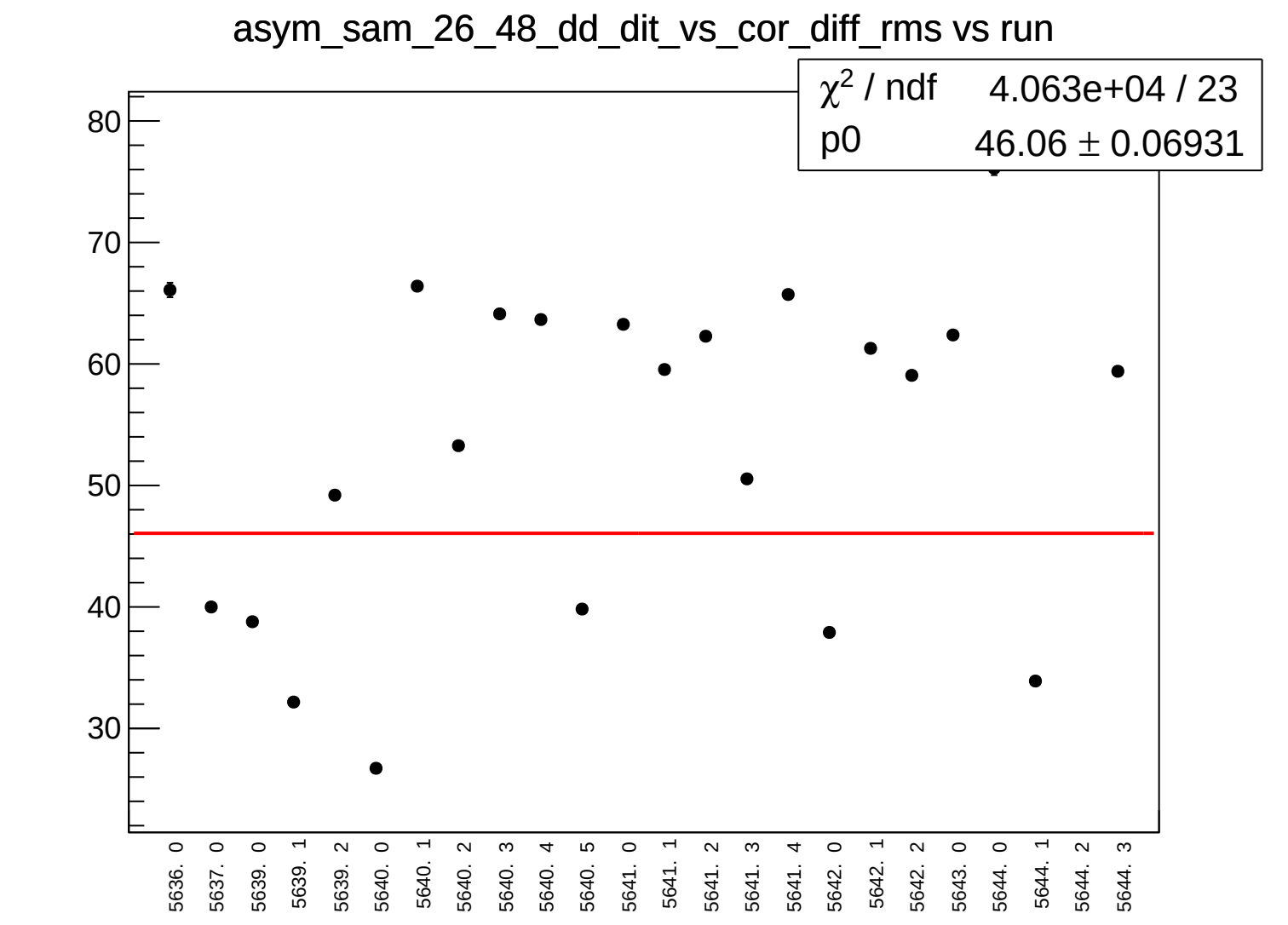

asym_sam_26_48_dd_rms vs run
χ² / ndf 2730 / 23
p0 756.5 ± 1.092
900
850
800
750
700
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 25.74 / 23
p0 −7.564e−14 ± 1.136e−13
0.001
0.0005
0
−0.0005
−0.001
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −34.85
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 24
Mean 0.06359
Std Dev 1.034
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.032e+05 / 23
p0 4.243e−11 ± 8.033e−14
0.1
0.08
0.06
0.04
0.02
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 23 / 23
p0 −0.02674 ± 0.09802
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 19.19
Std Dev 2.881
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.06298
Std Dev 0.9769
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.063e+04 / 23
p0 46.06 ± 0.06931
80
70
60
50
40
30
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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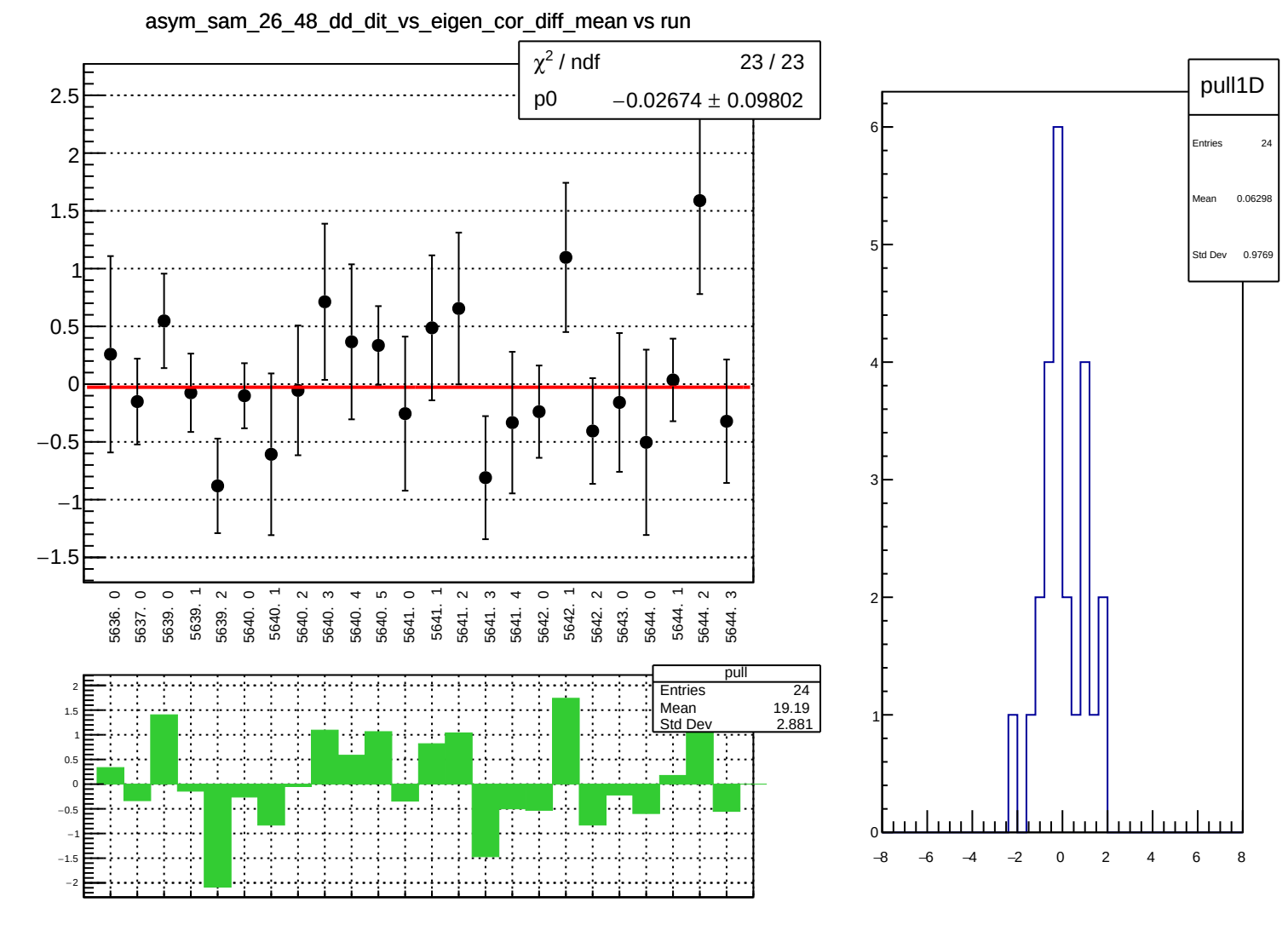
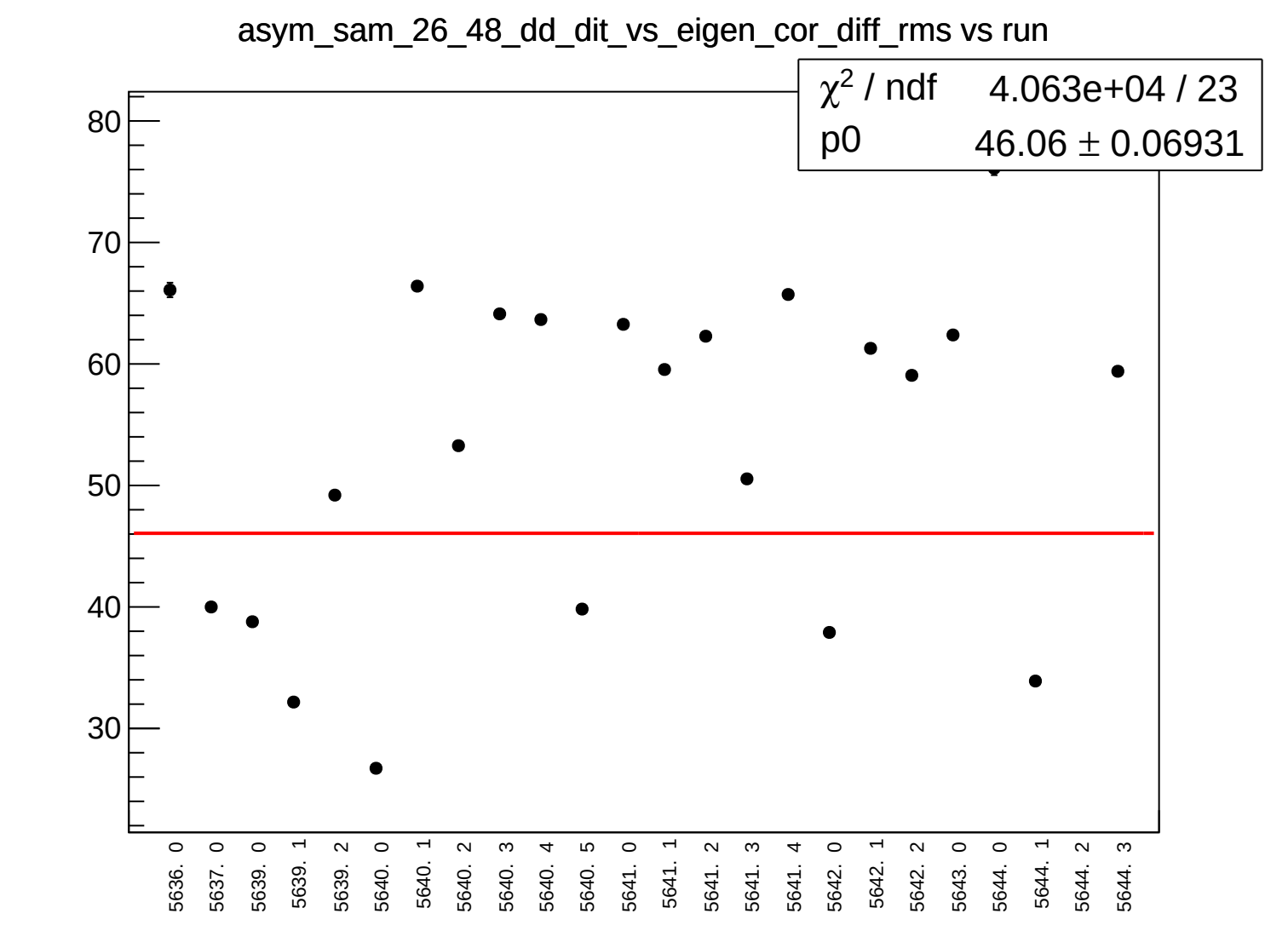
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 23 / 23
p0 −0.02674 ± 0.09802
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 19.19
Std Dev 2.881
pull1D
Entries 24
Mean 0.06298
Std Dev 0.9769


asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.063e+04 / 23
p0 46.06 ± 0.06931
80
70
60
50
40
30
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
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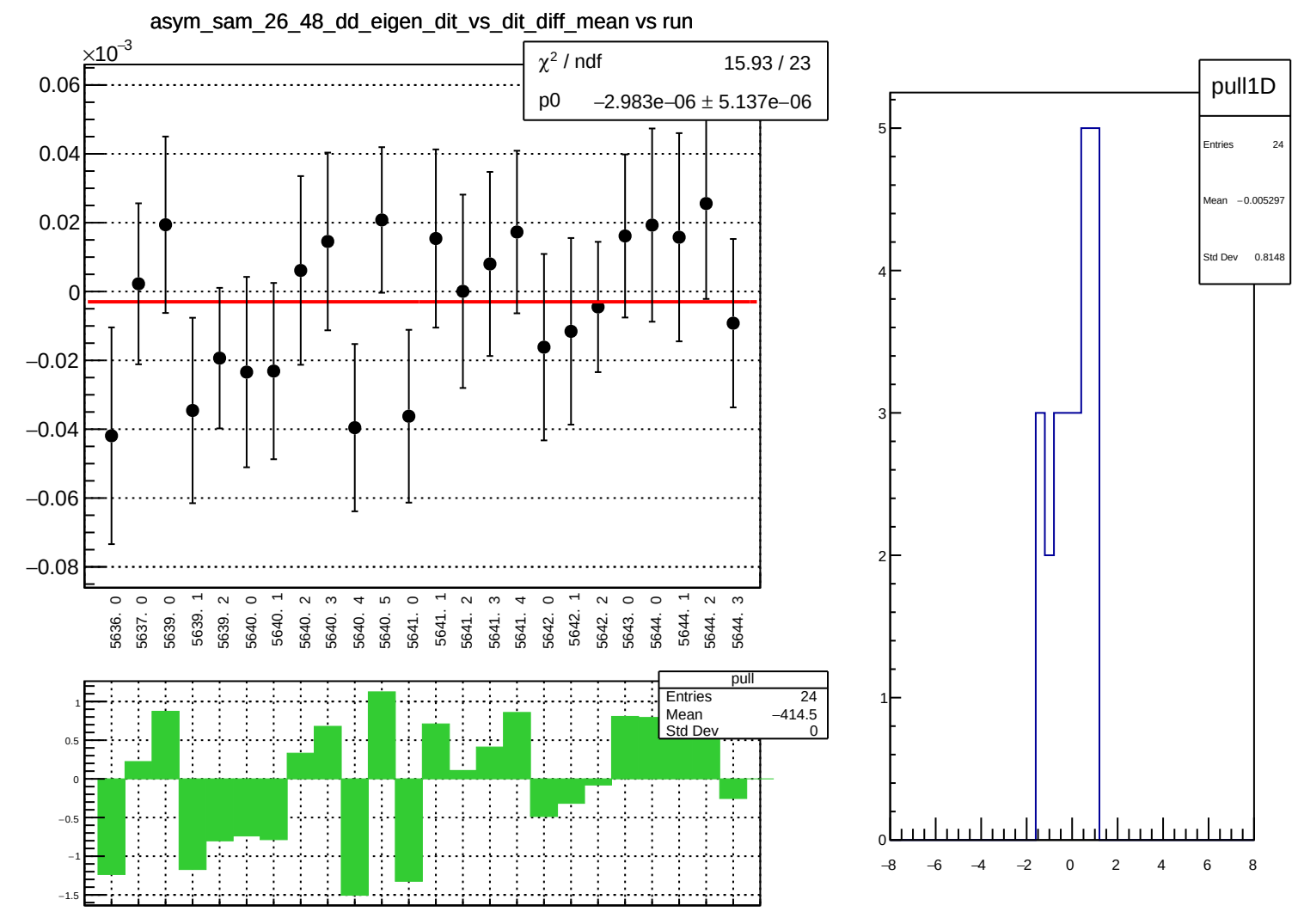
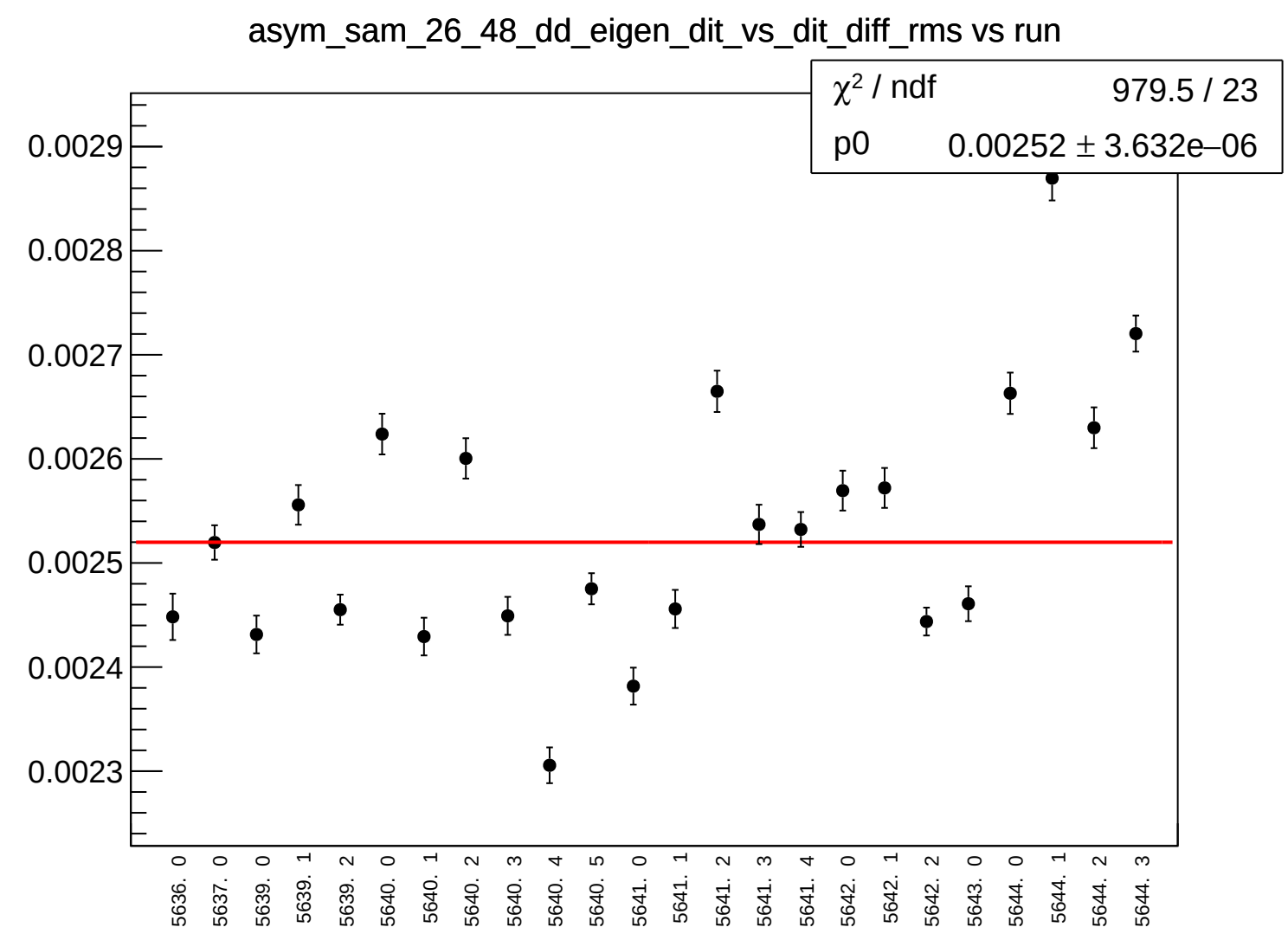
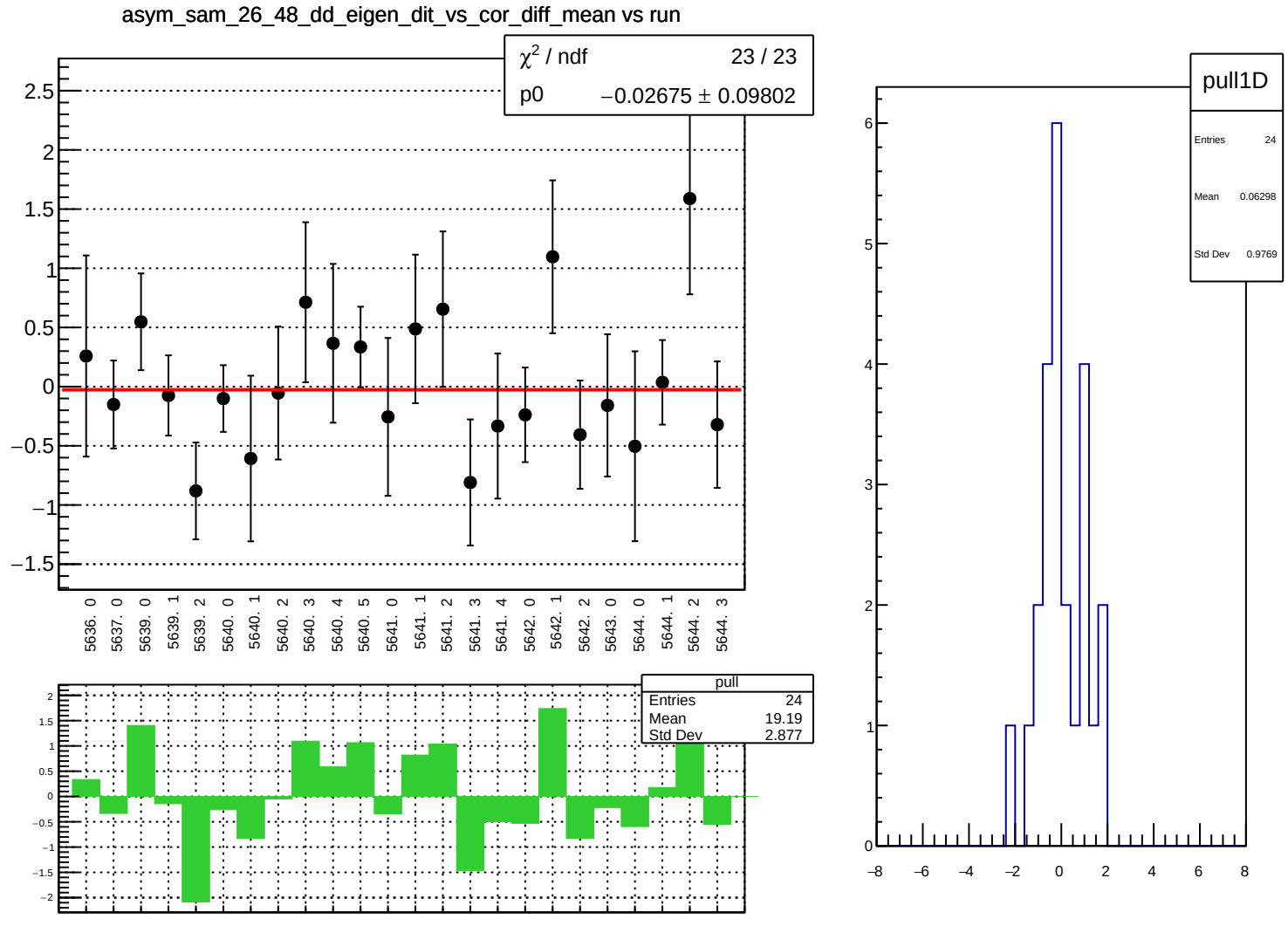
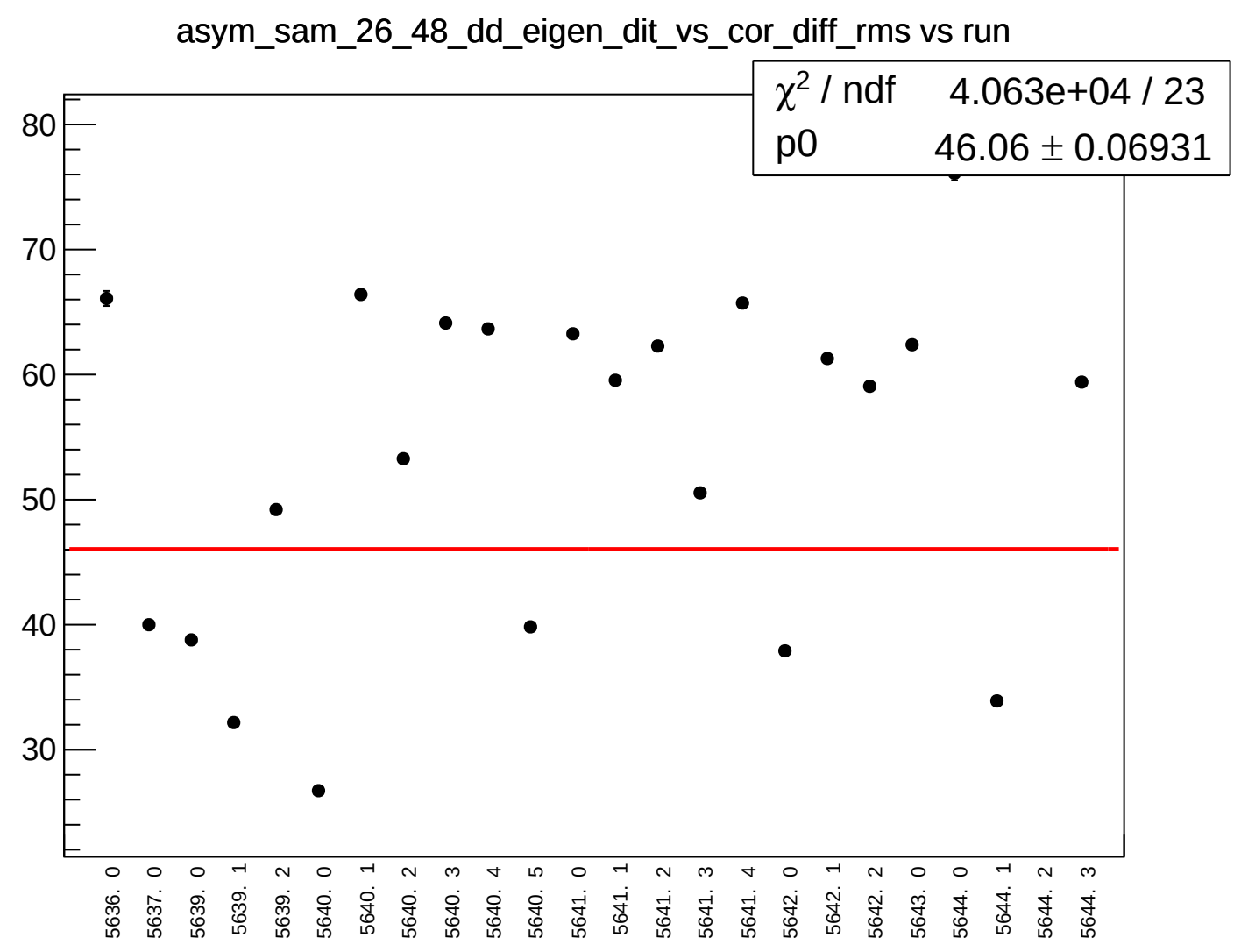
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

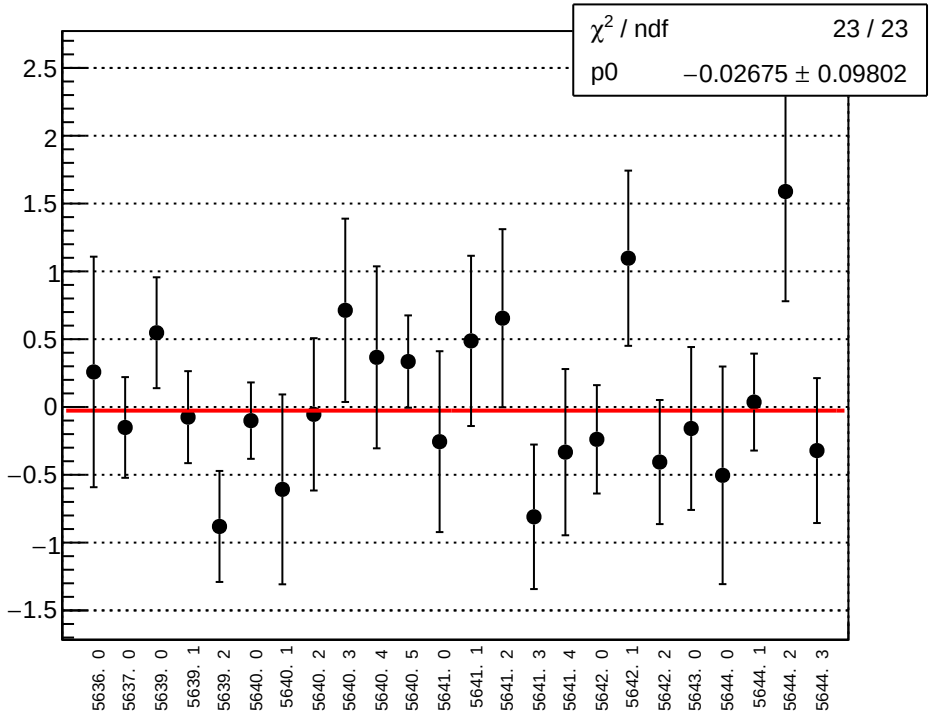

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 15.93 / 23
p0 −2.983e−06 ± 5.137e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −414.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.005297
Std Dev 0.8148
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

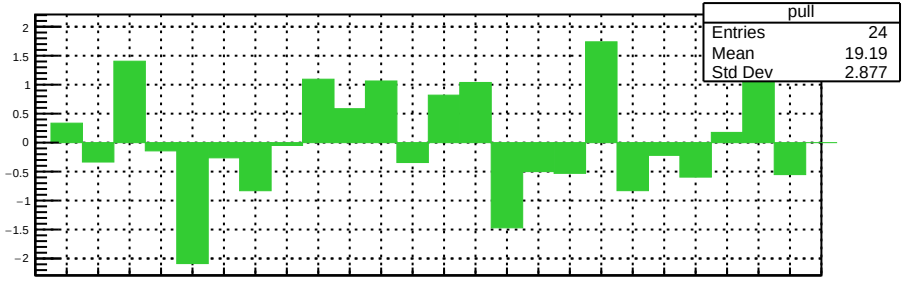

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 979.5 / 23
p0 0.00252 ± 3.632e–06
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

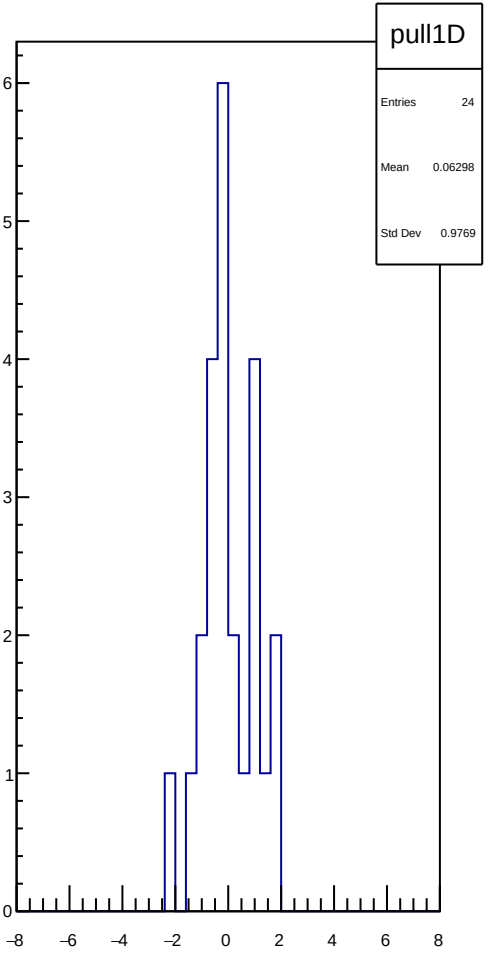

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 23 / 23
p0 −0.02675 ± 0.09802
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 19.19
Std Dev 2.877
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.06298
Std Dev 0.9769
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

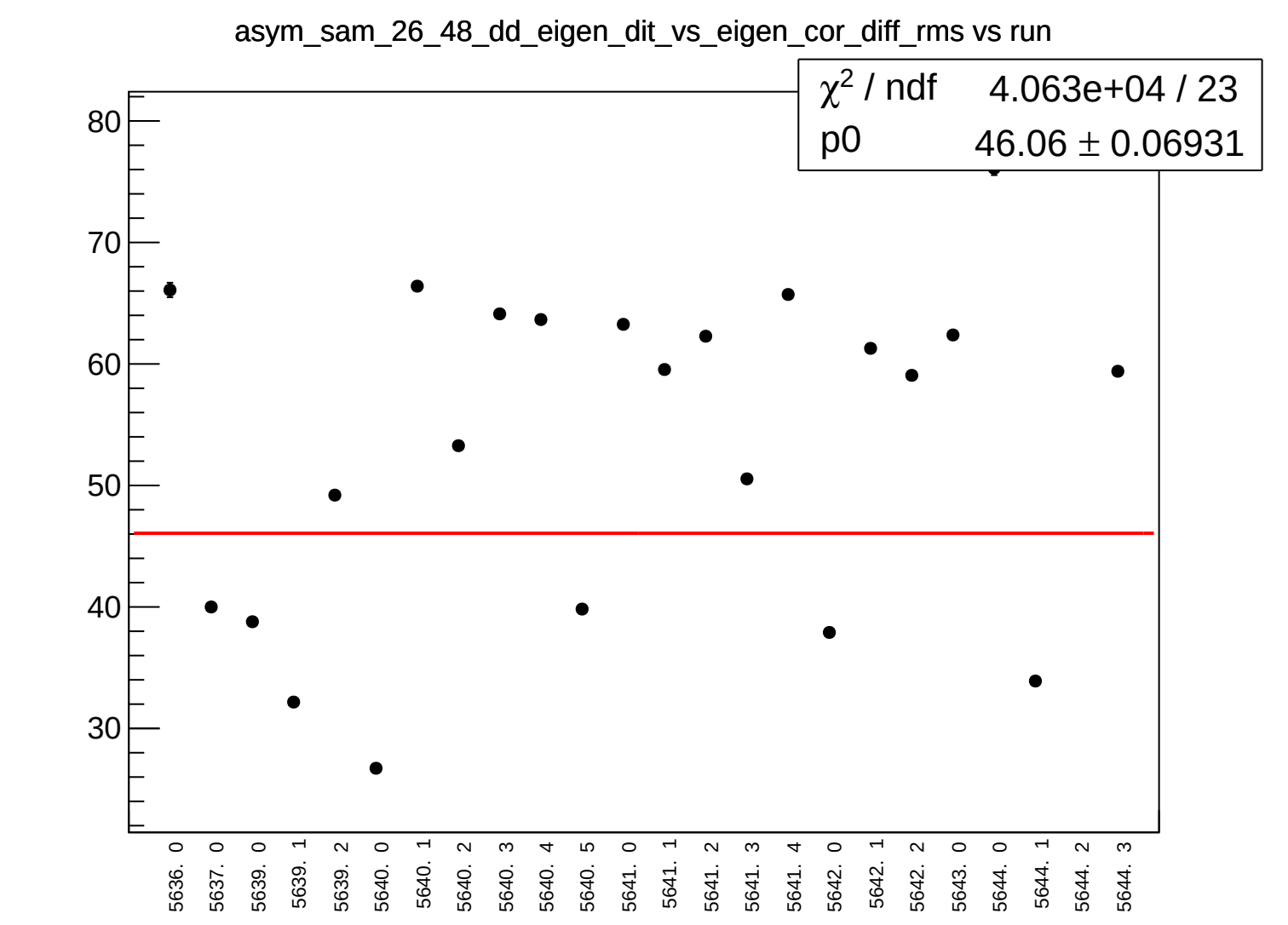

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.063e+04 / 23
p0 46.06 ± 0.06931
80
70
60
50
40
30
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

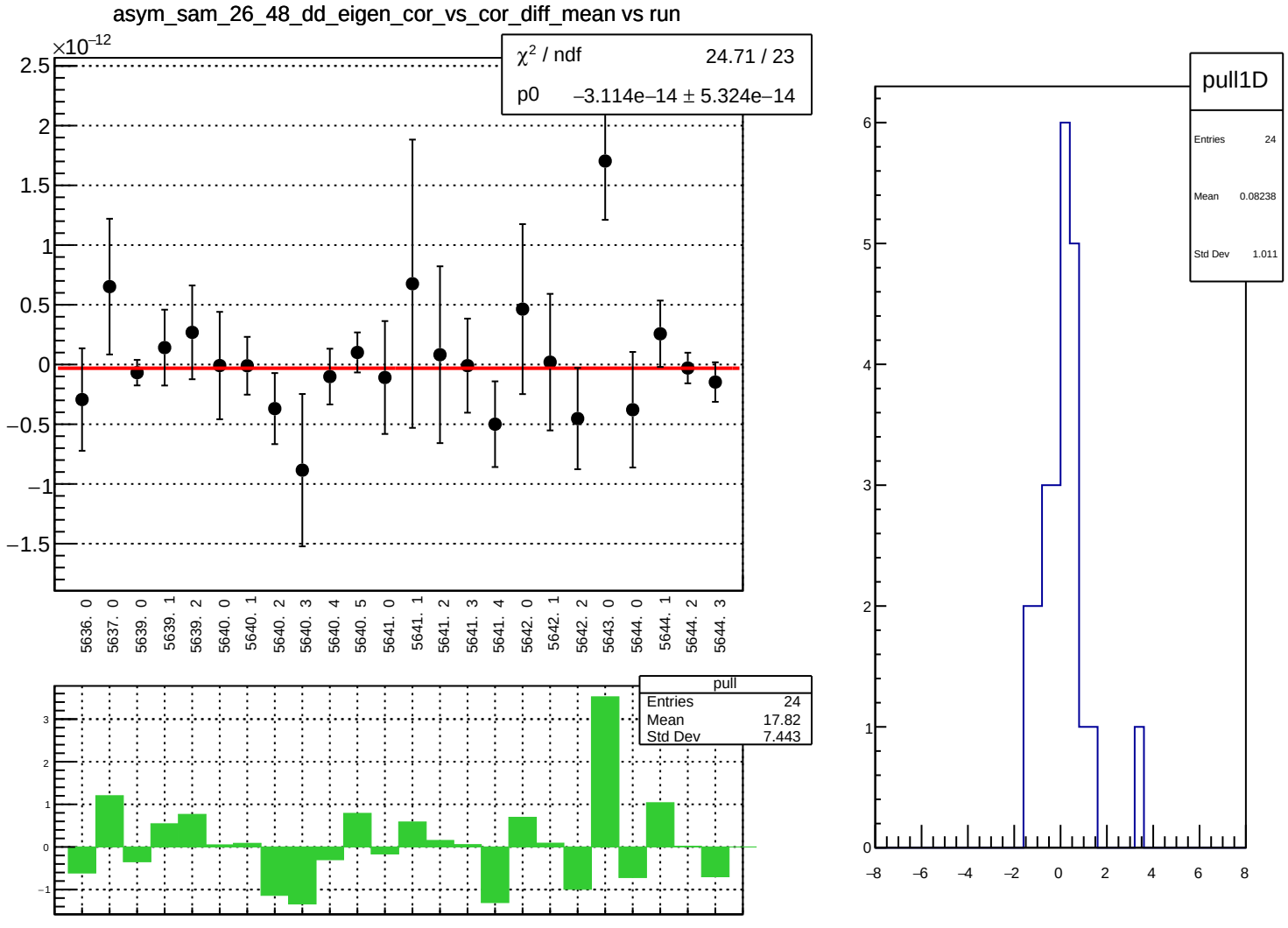
asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

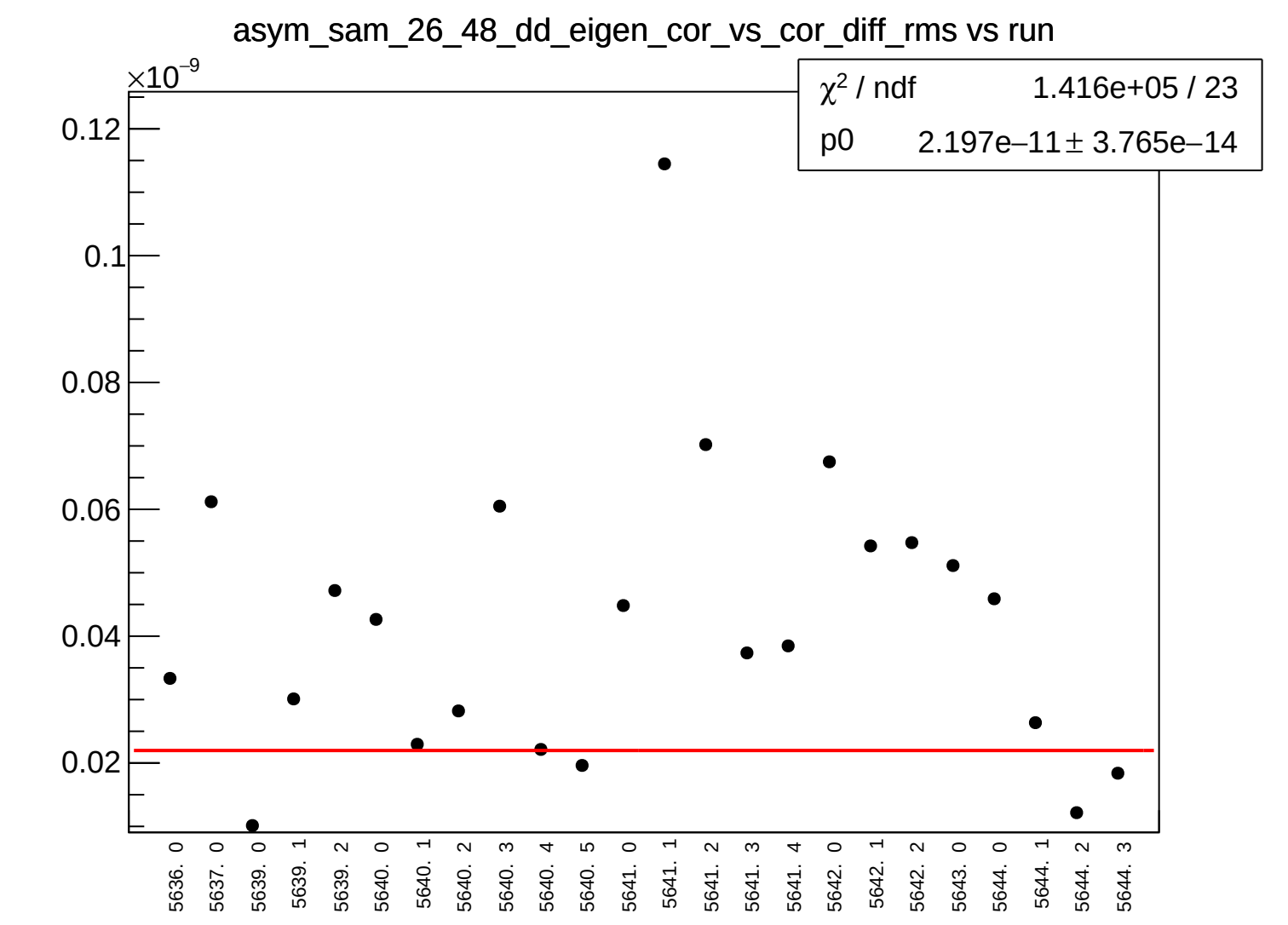


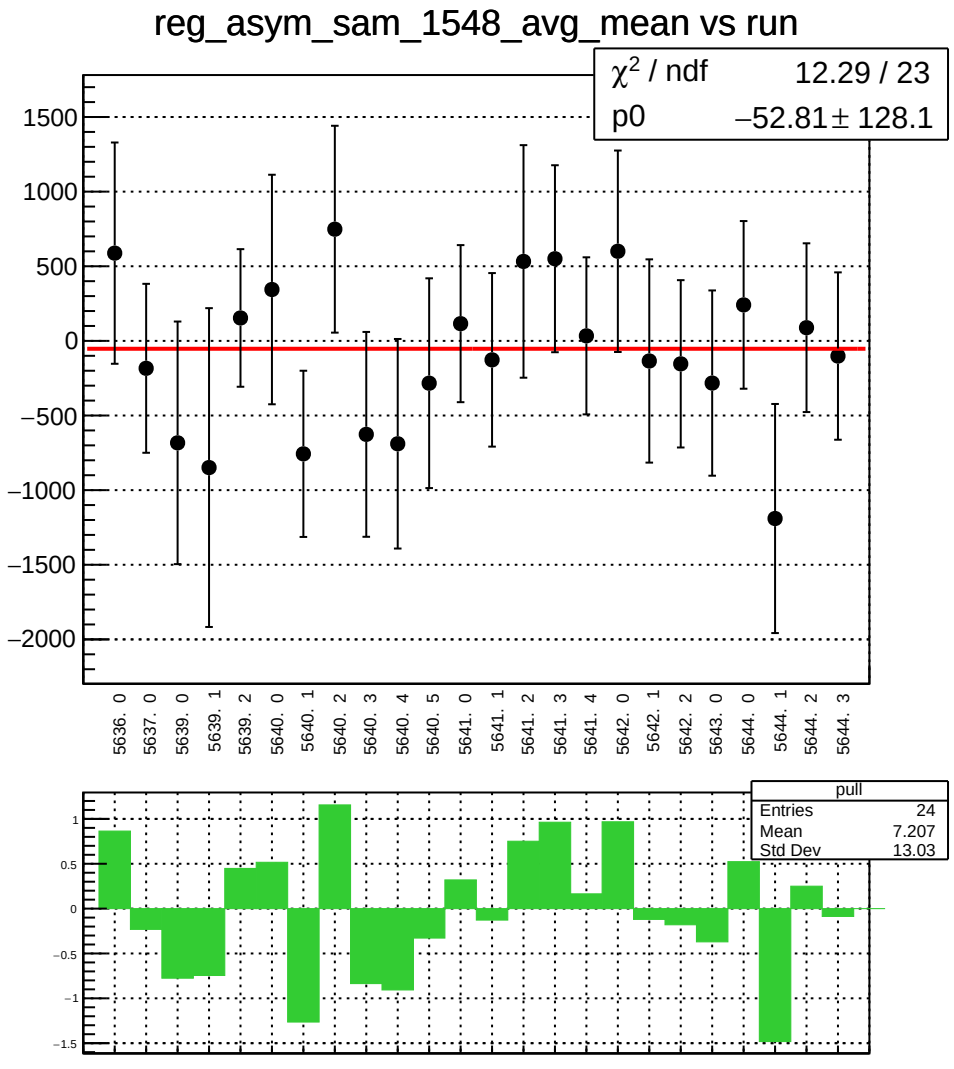


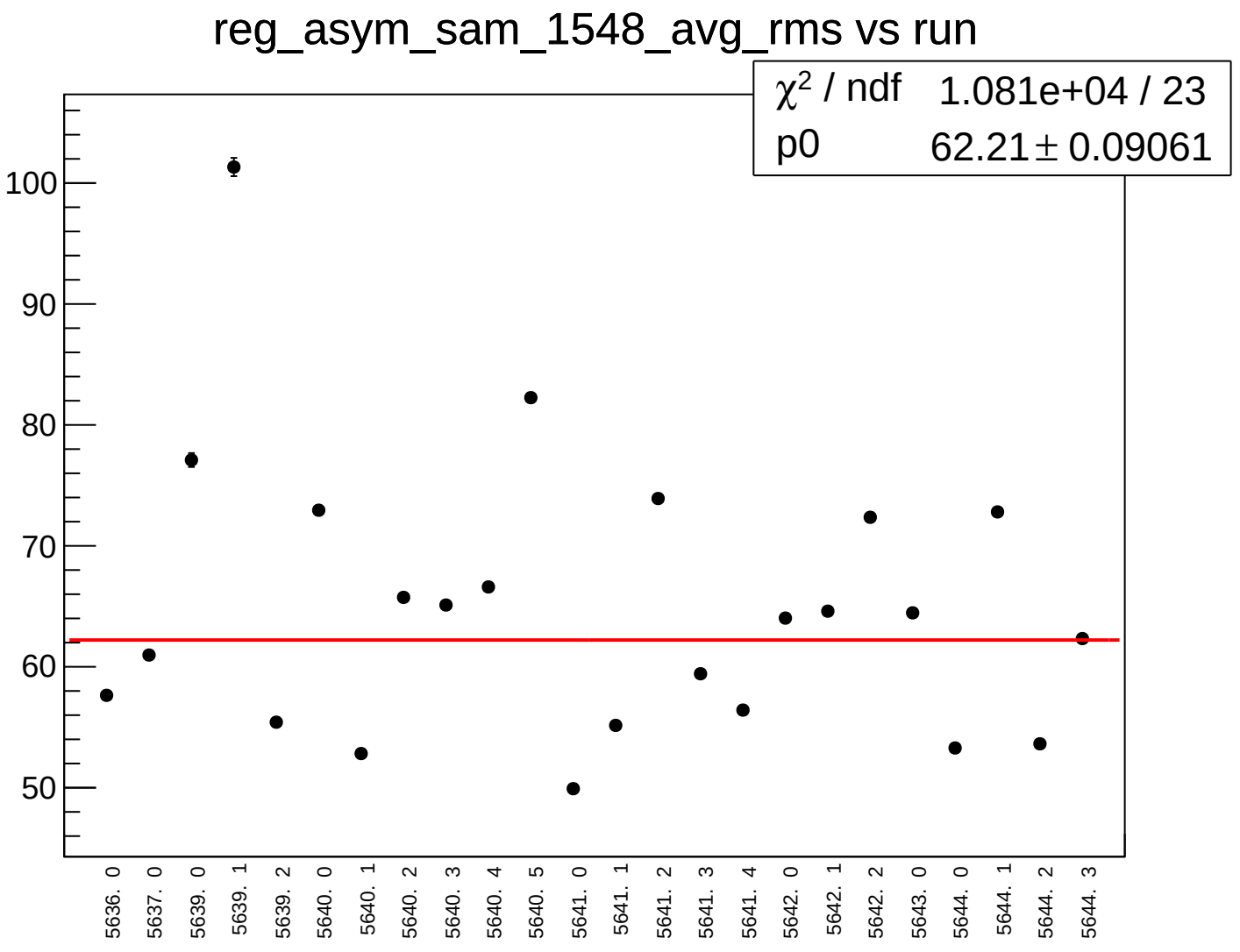



asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.063e+04 / 23
p0 46.06 ± 0.06931
80
70
60
50
40
30
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 24.71 / 23
p0 −3.114e−14 ± 5.324e−14
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 17.82
Std Dev 7.443
3
2
1
0
−1
pull1D
Entries 24
Mean 0.08238
Std Dev 1.011
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.416e+05 / 23
p0 2.197e−11 ± 3.765e−14
0.12
0.1
0.08
0.06
0.04
0.02
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


reg_asym_sam_1548_avg_mean vs run
χ² / ndf 12.29 / 23
p0 −52.81 ± 128.1
1500
1000
500
0
−500
−1000
−1500
−2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 7.207
Std Dev 13.03
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.02206
Std Dev 0.7151
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_1548_avg_rms vs run
χ² / ndf 1.081e+04 / 23
p0 62.21 ± 0.09061
100
90
80
70
60
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
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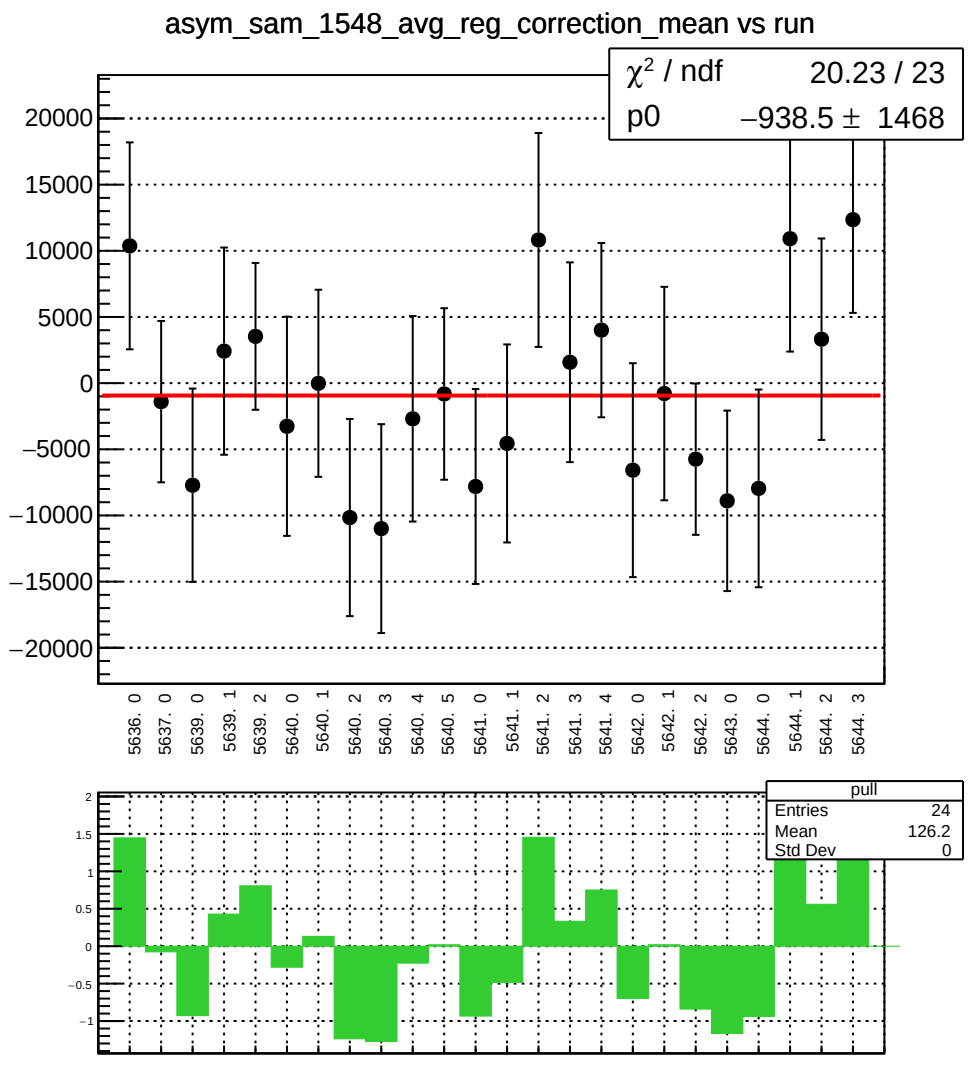
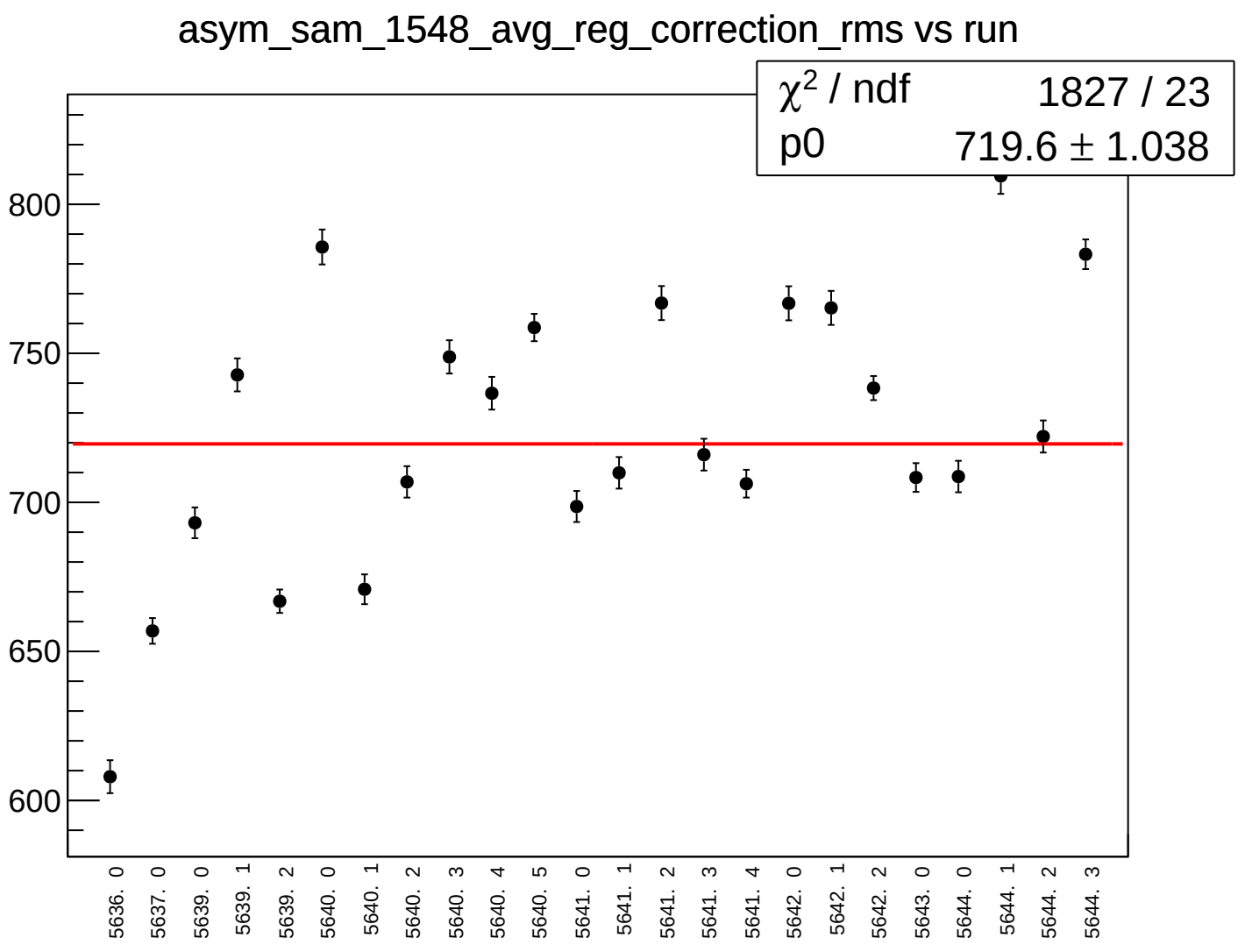
5644. 2
5644. 3


asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 20.23 / 23
p0 −938.5 ± 1468
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 126.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.005969
Std Dev 0.9181
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 1827 / 23
p0 719.6 ± 1.038
800
750
700
650
600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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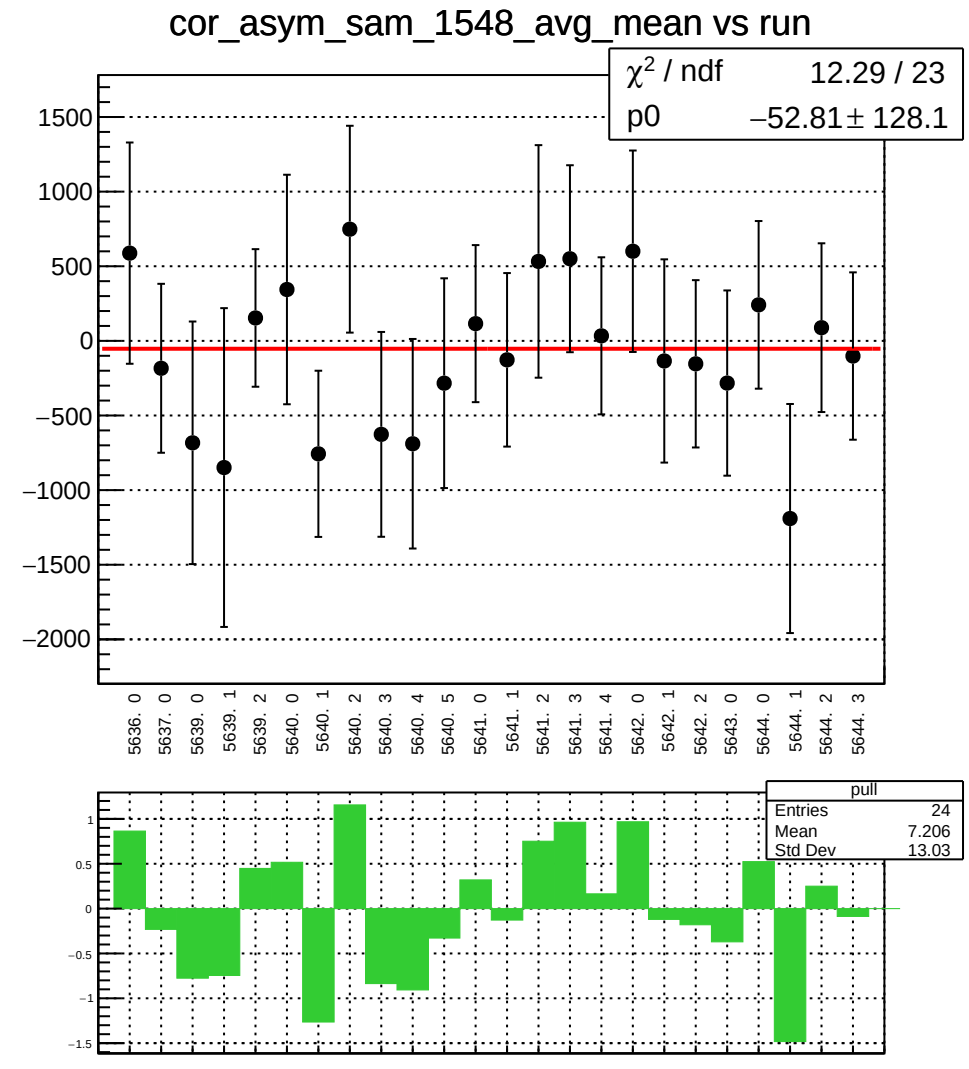
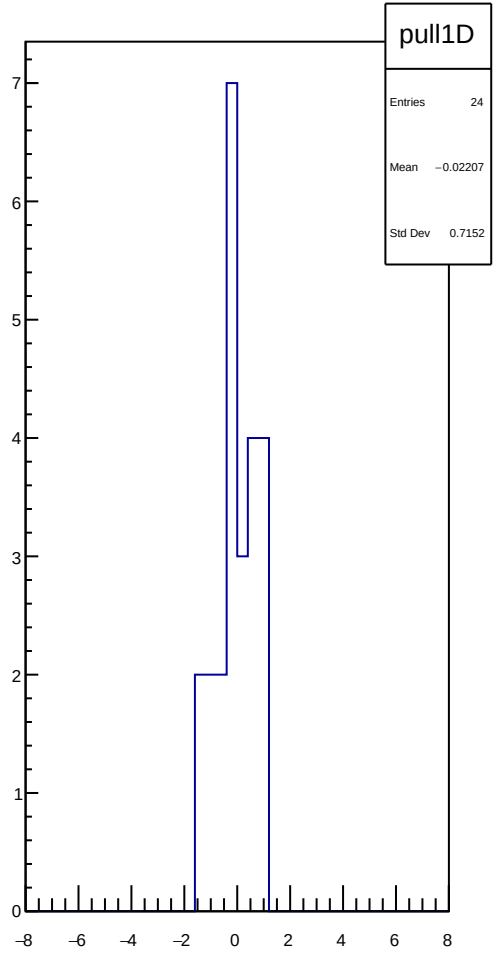
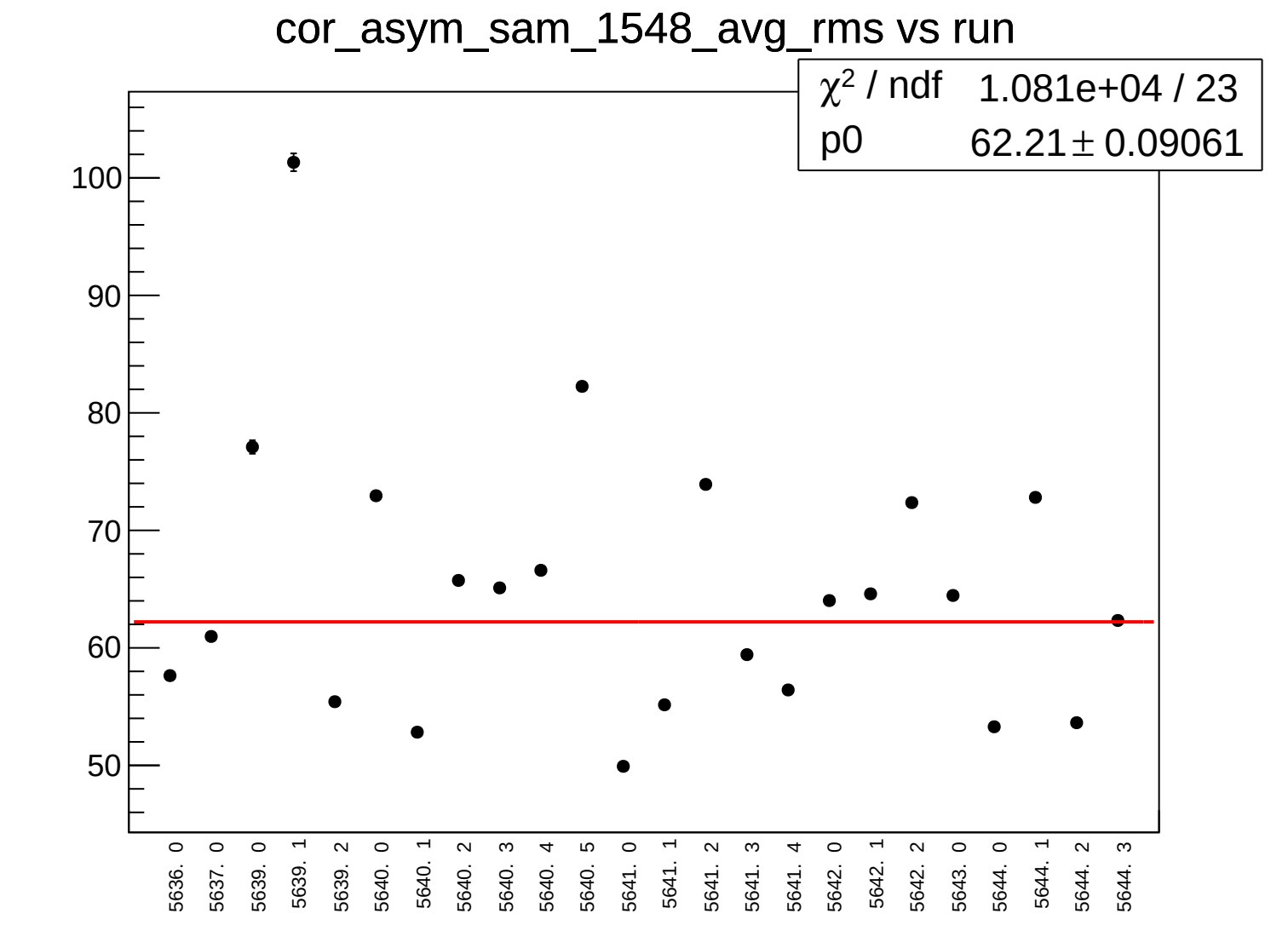
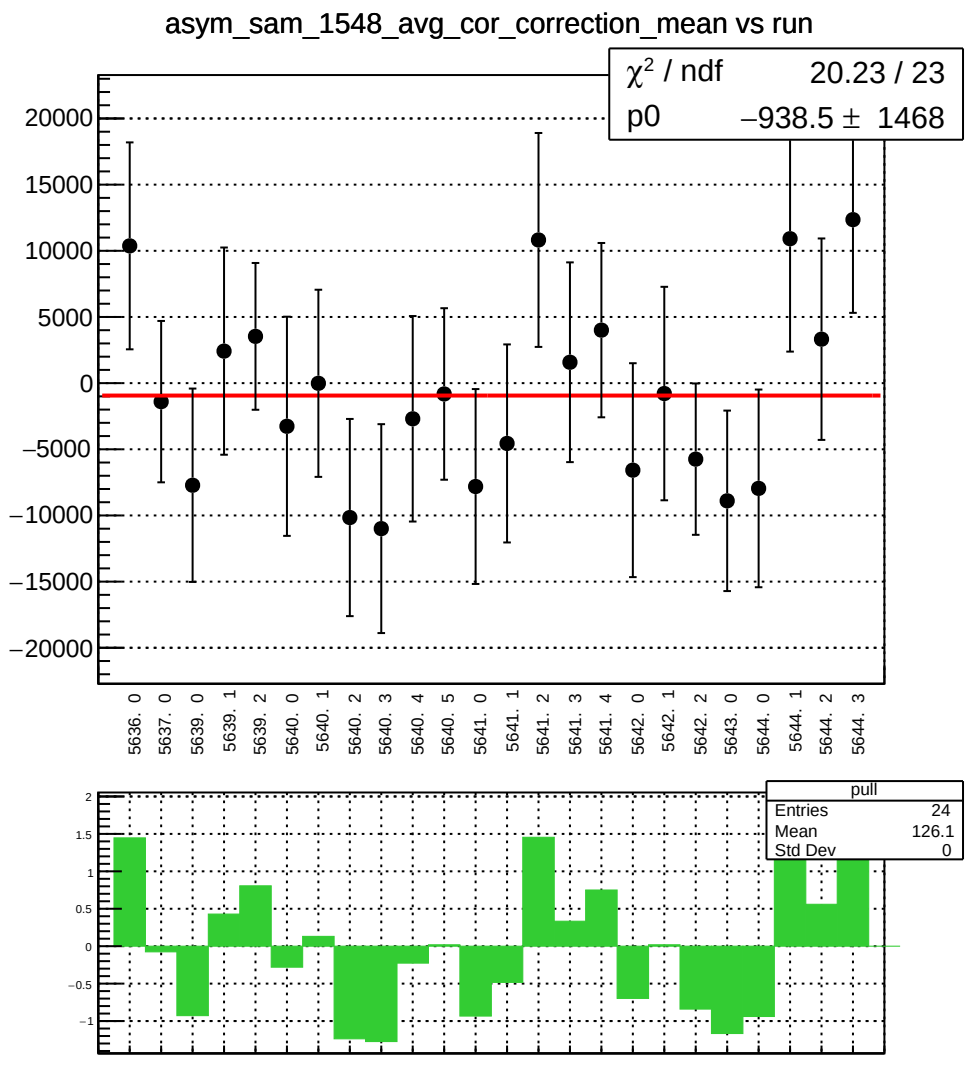
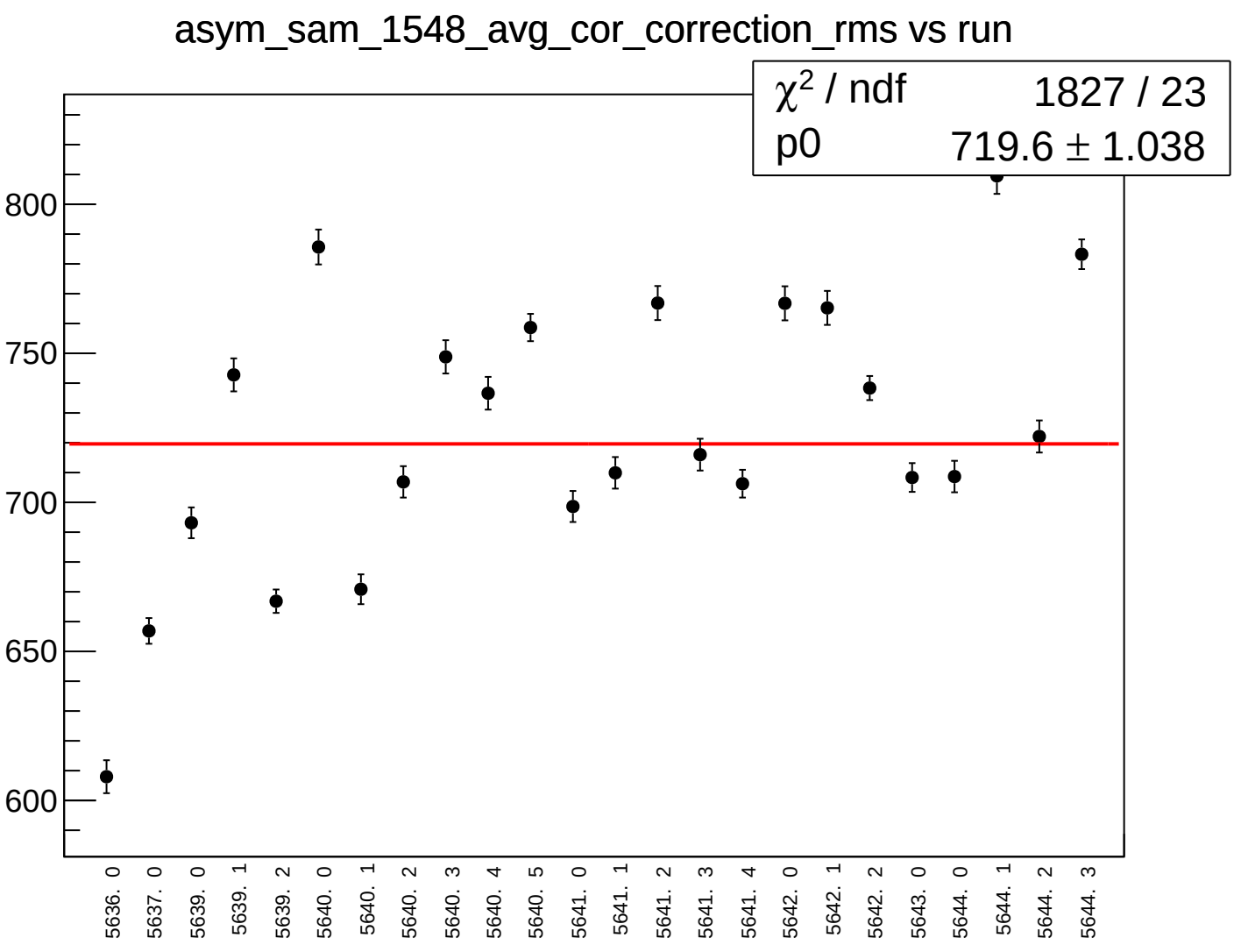
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

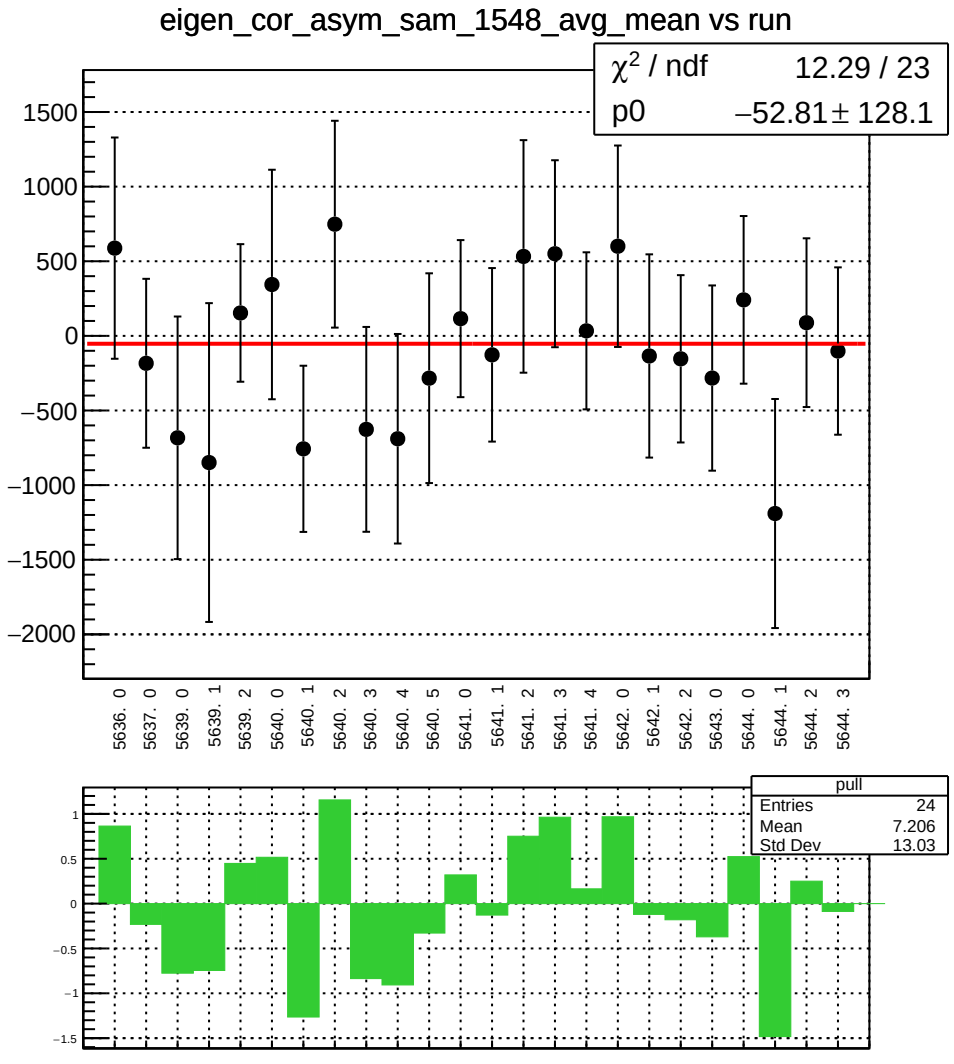

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 12.29 / 23
p0 −52.81 ± 128.1
1500
1000
500
0
−500
−1000
−1500
−2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 7.206
Std Dev 13.03
1
0.5
0
−0.5
−1
−1.5

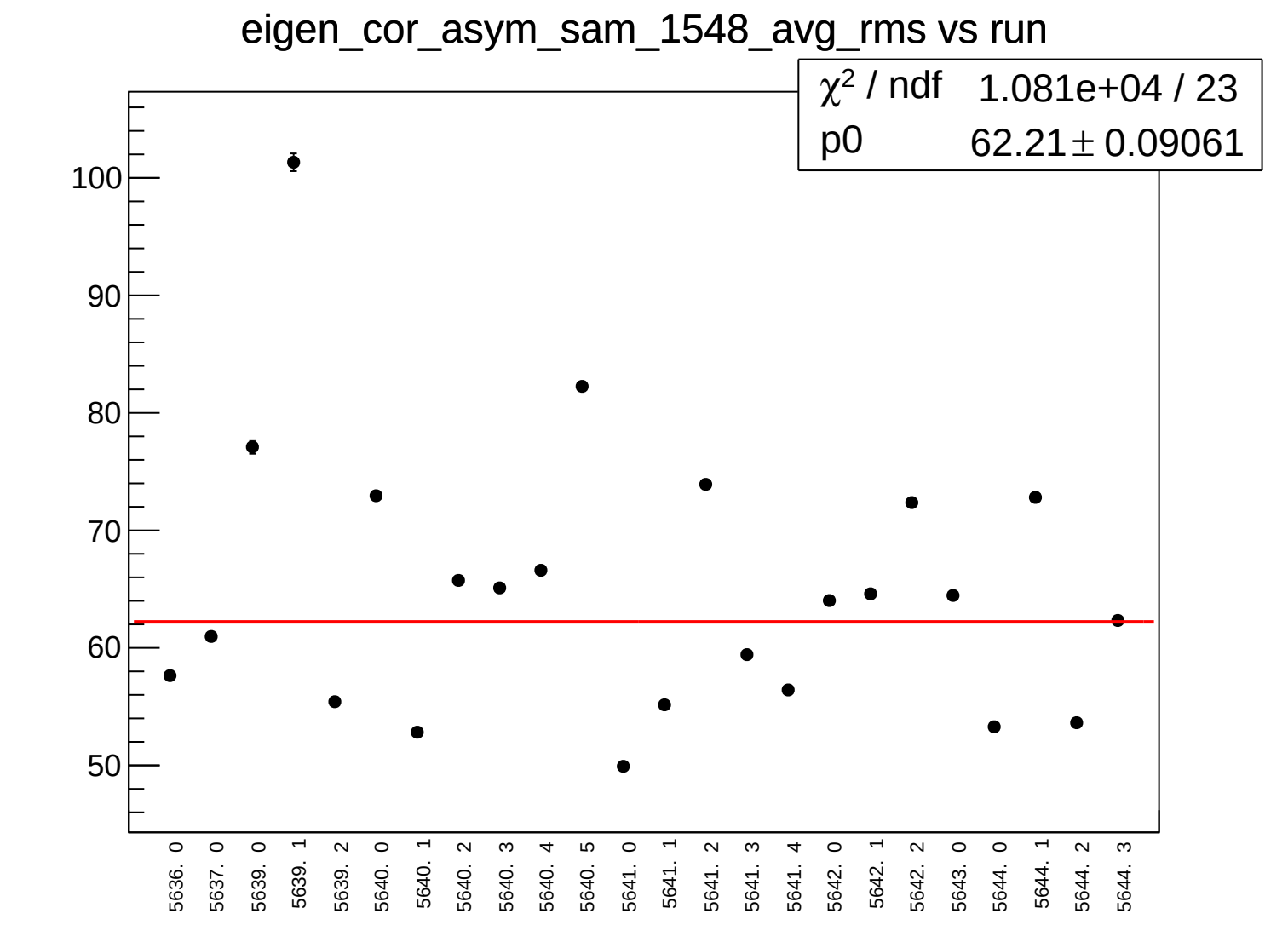

pull1D
Entries 24
Mean −0.02207
Std Dev 0.7152
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

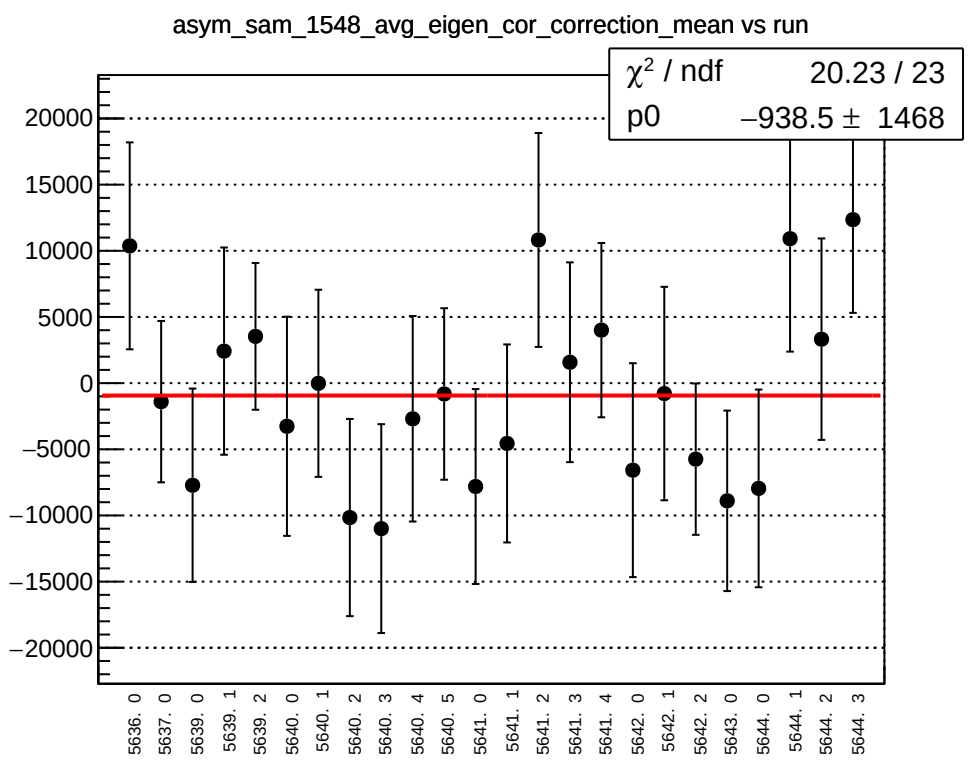

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 1.081e+04 / 23
p0 62.21 ± 0.09061
100
90
80
70
60
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

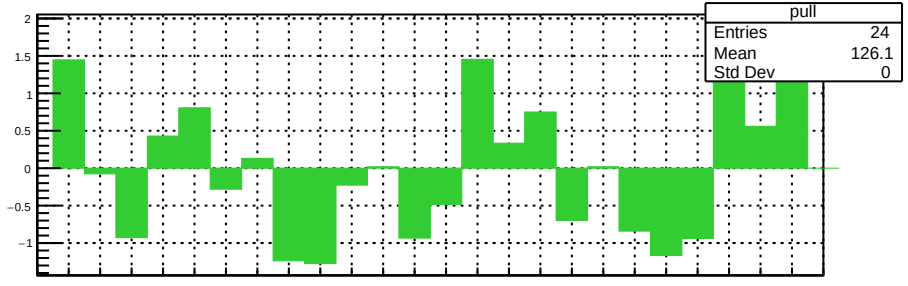

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 20.23 / 23
p0 −938.5 ± 1468
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 126.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.005969
Std Dev 0.9181
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

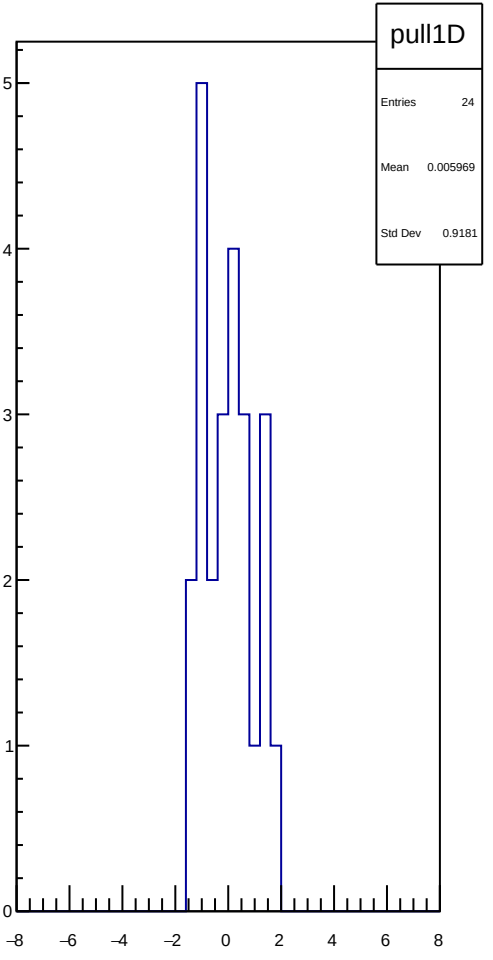

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 1827 / 23
p0 719.6 ± 1.038
800
750
700
650
600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

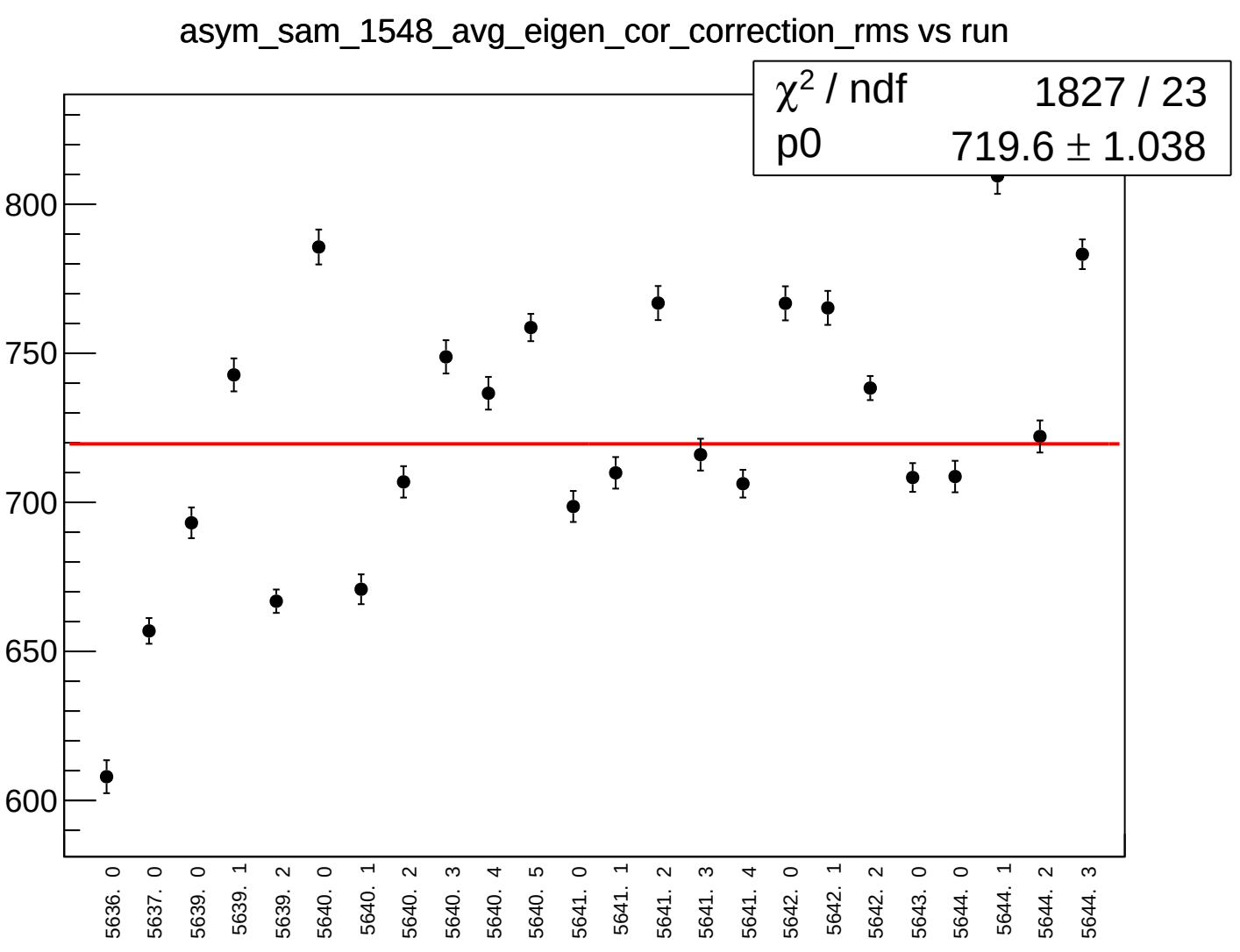

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 12.29 / 23
p0 −52.81 ± 128.1
1500
1000
500
0
−500
−1000
−1500
−2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 7.206
Std Dev 13.03
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.02207
Std Dev 0.7152
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

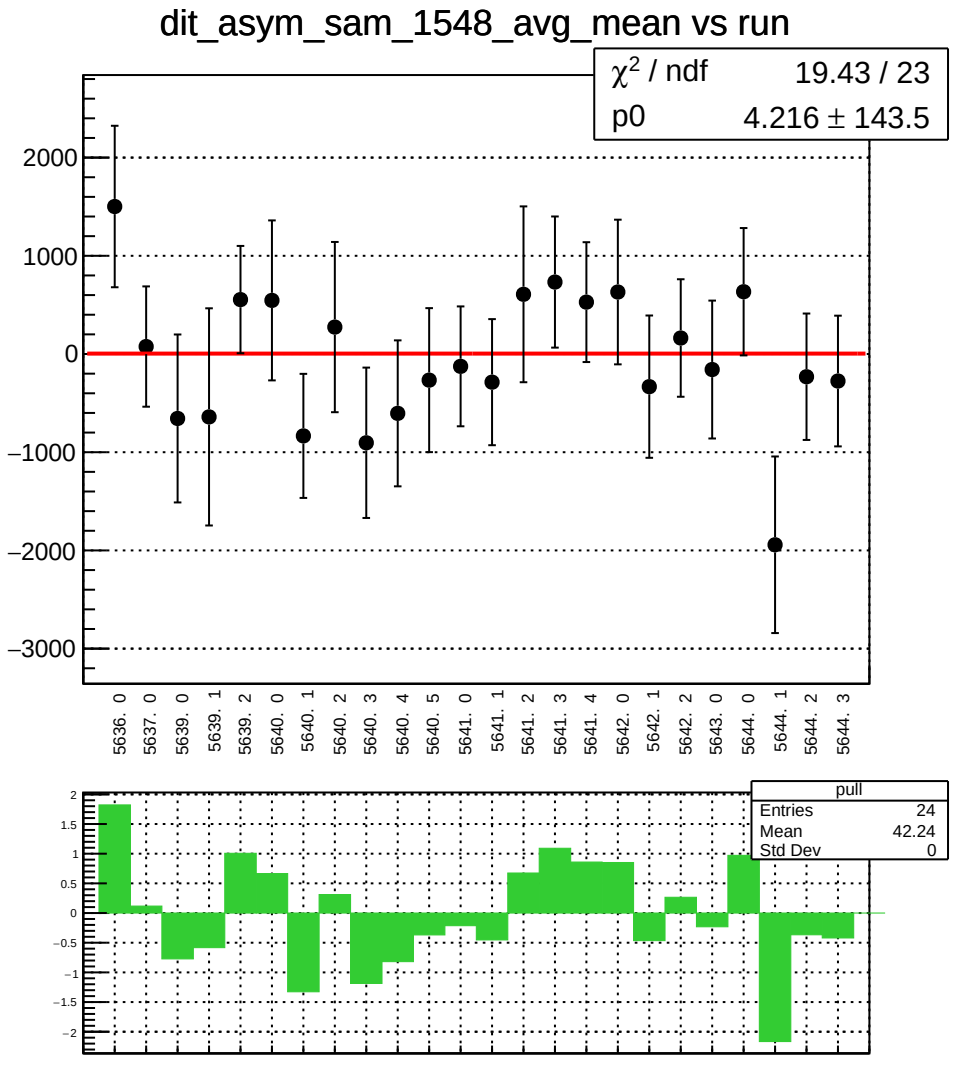

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 1.081e+04 / 23
p0 62.21 ± 0.09061
100
90
80
70
60
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

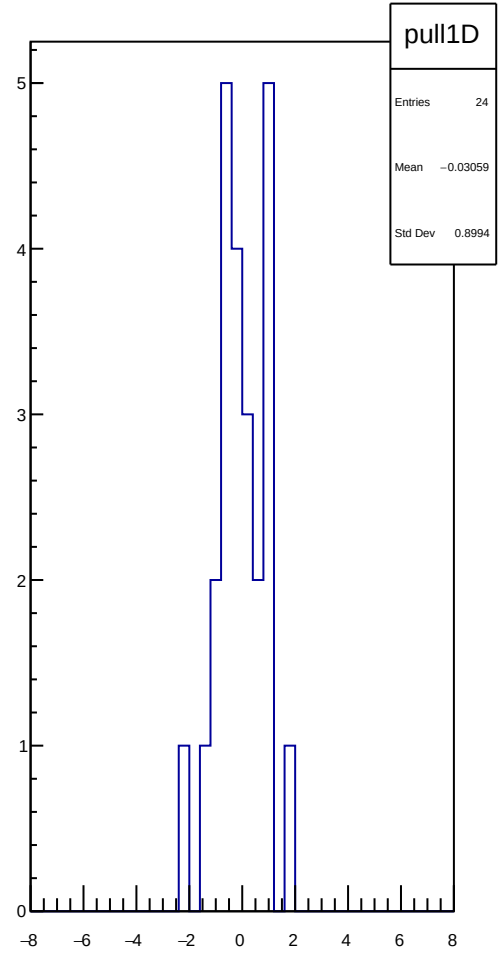

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 20.23 / 23
p0 −938.5 ± 1468
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

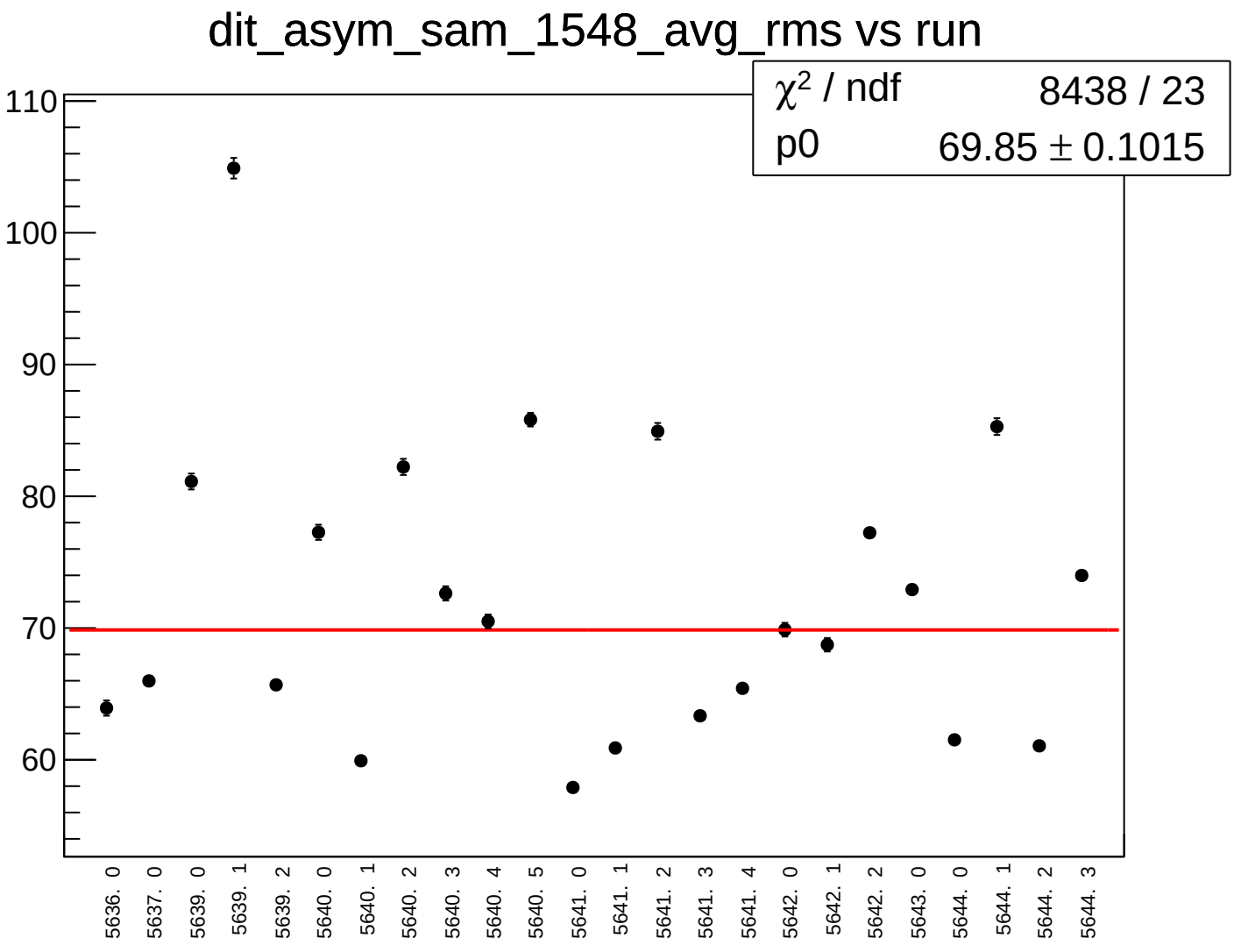

pull
Entries 24
Mean 126.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

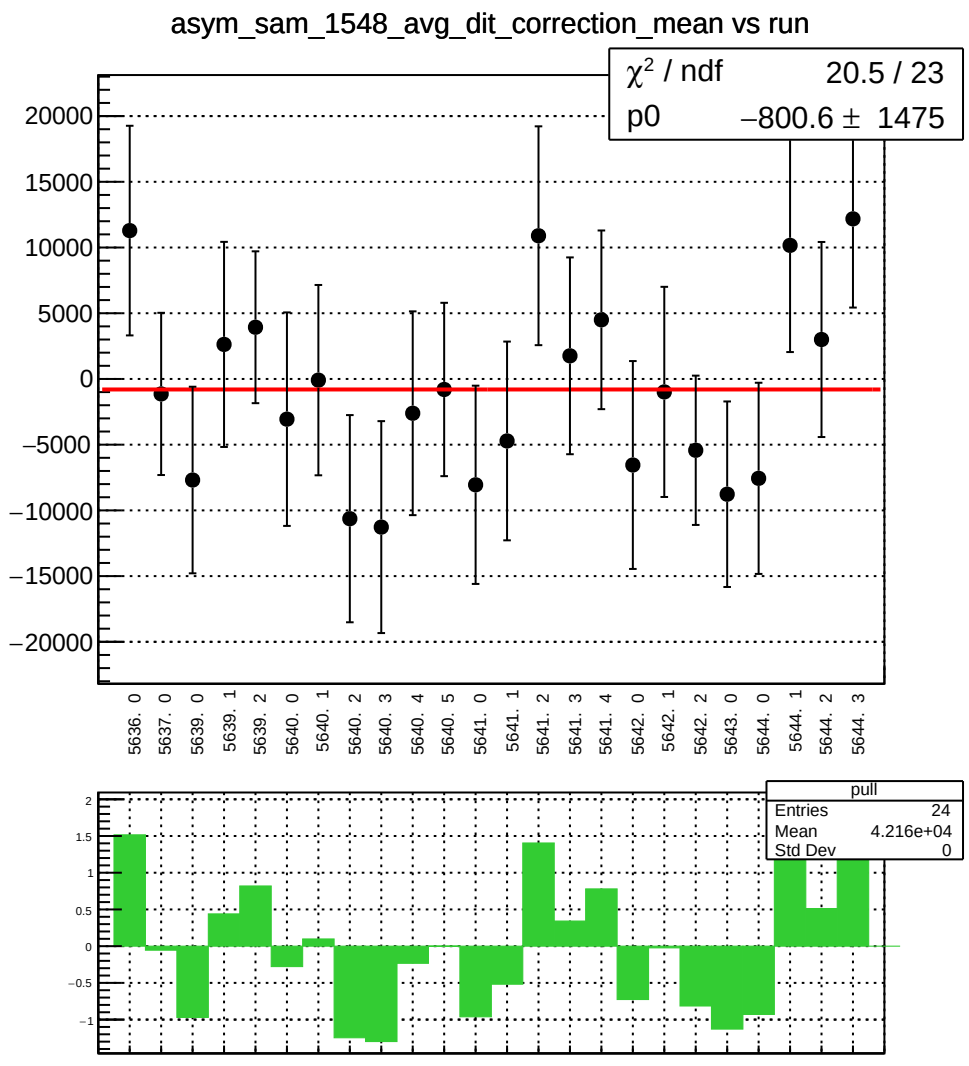

pull1D
Entries 24
Mean 0.005969
Std Dev 0.9181
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

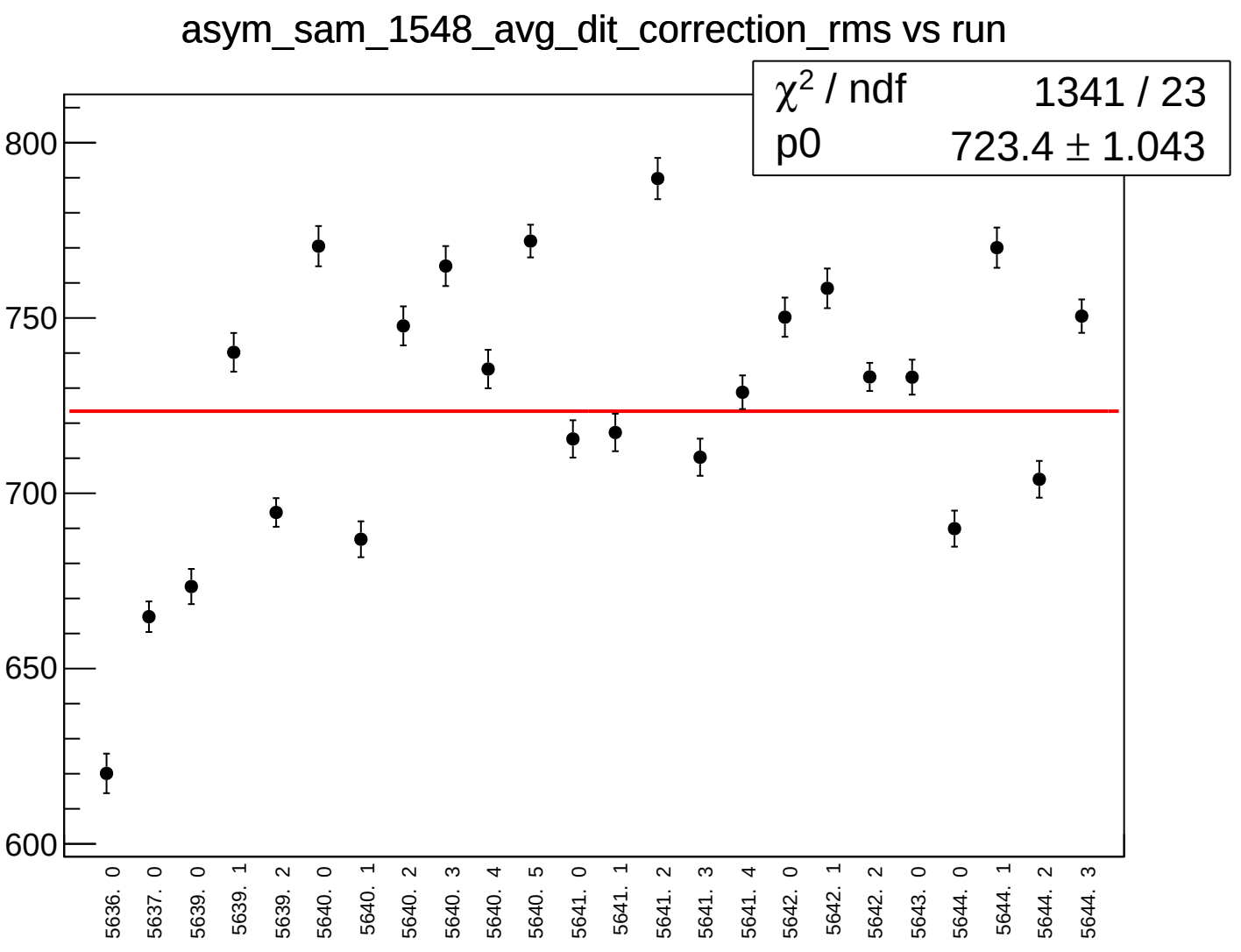

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 1827 / 23
p0 719.6 ± 1.038
800
750
700
650
600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

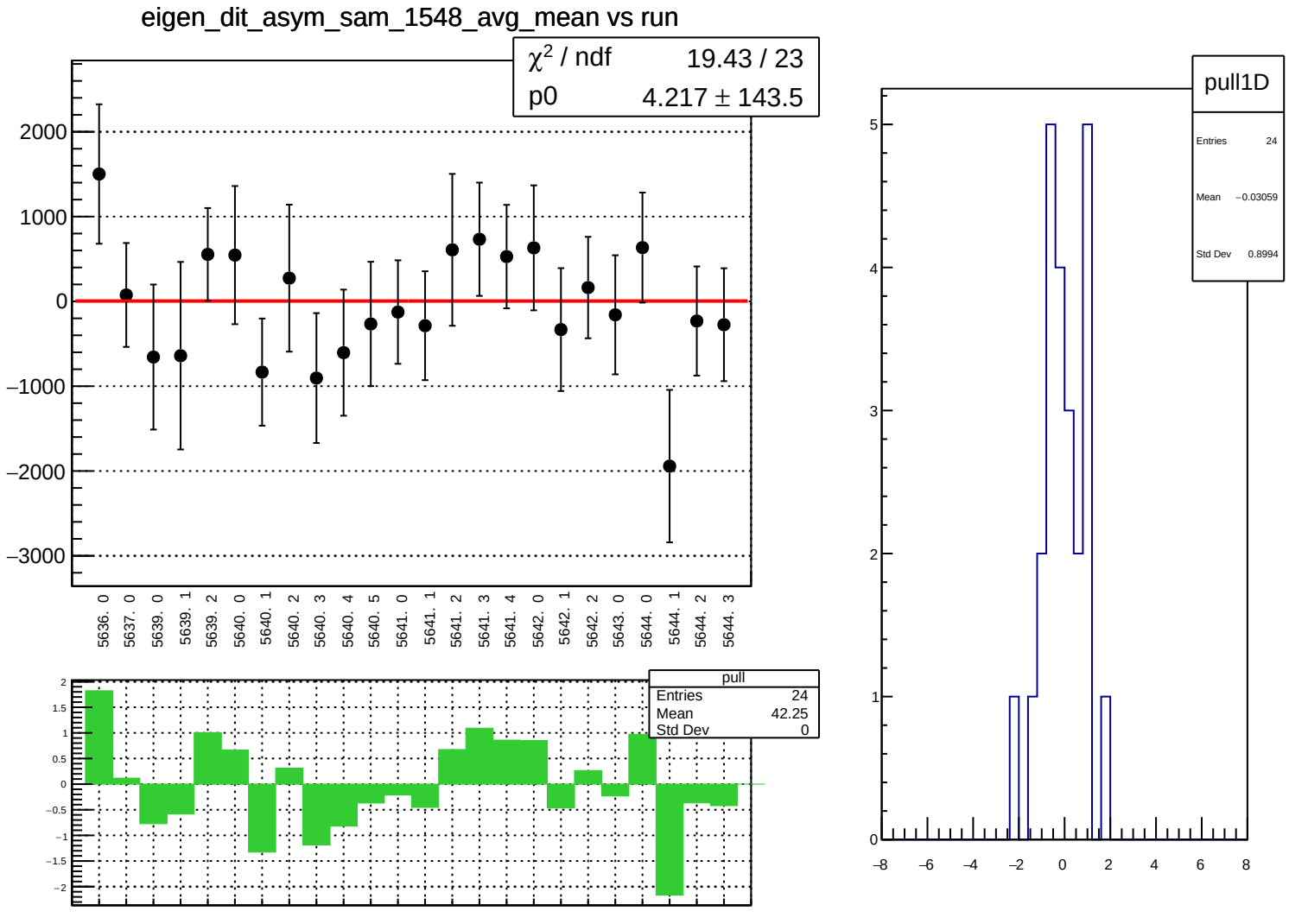

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 19.43 / 23
p0 4.216 ± 143.5
2000
1000
0
−1000
−2000
−3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 42.24
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

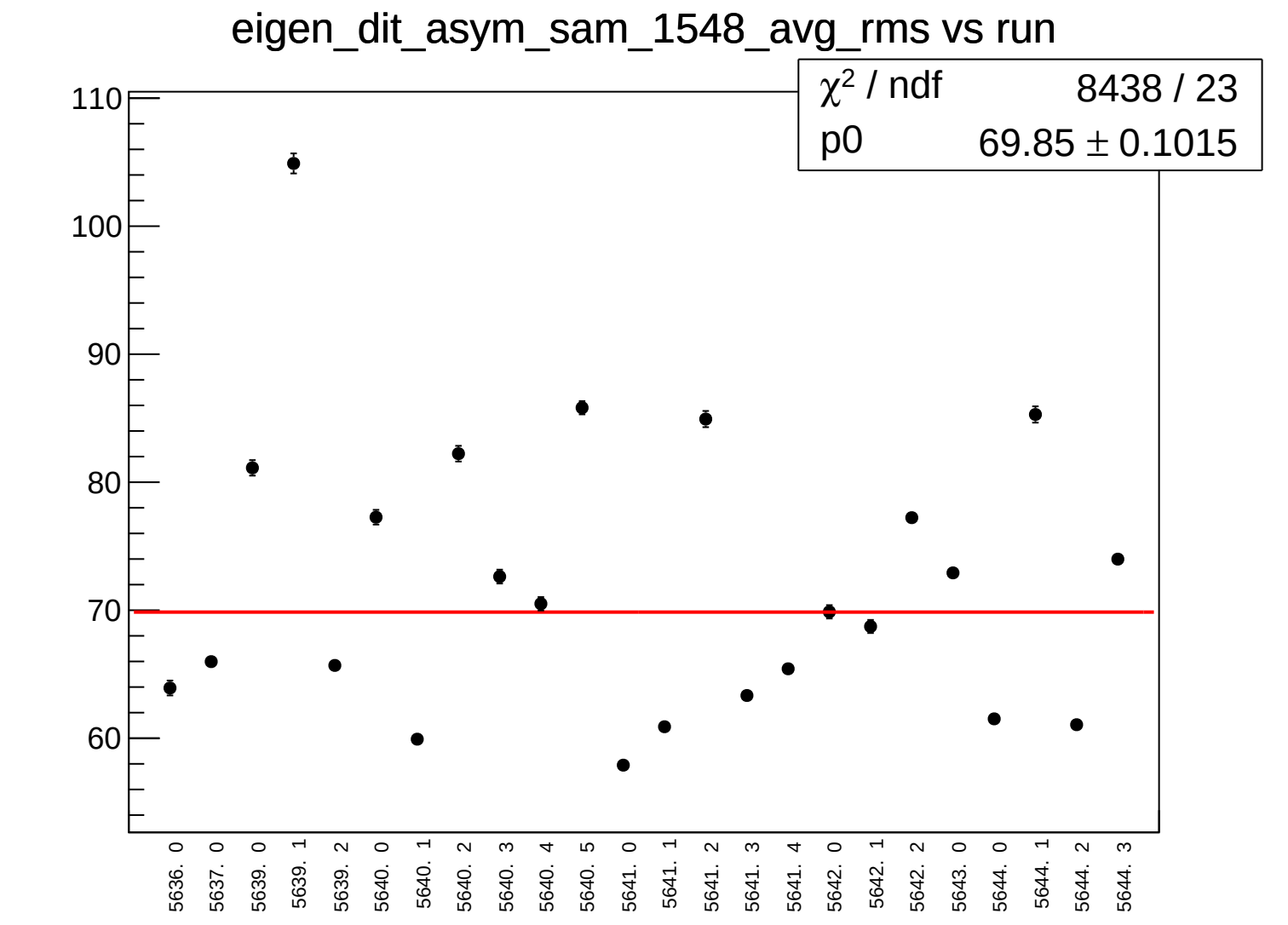

pull1D
Entries 24
Mean −0.03059
Std Dev 0.8994
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

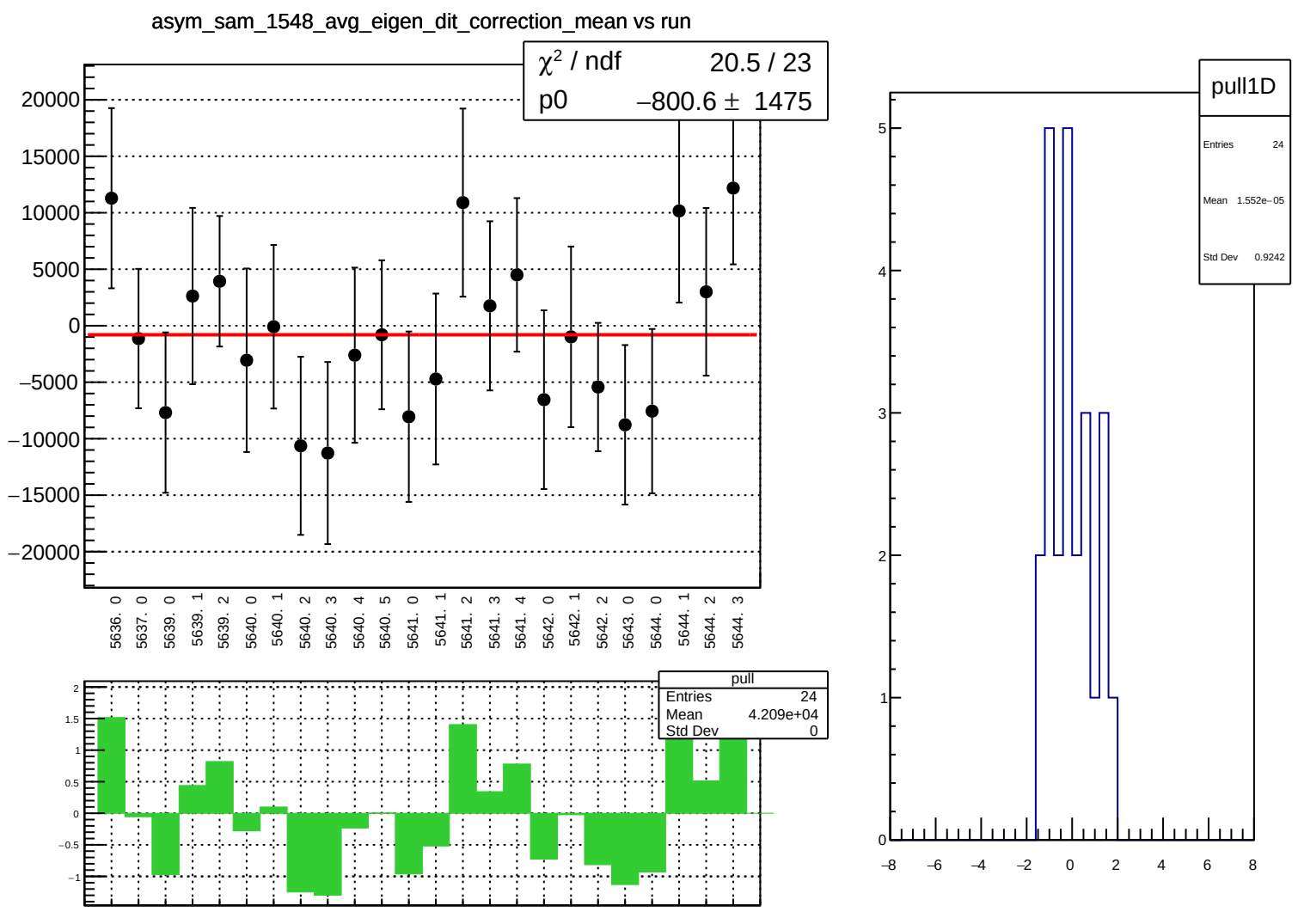

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 8438 / 23
p0 69.85 ± 0.1015
110
100
90
80
70
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

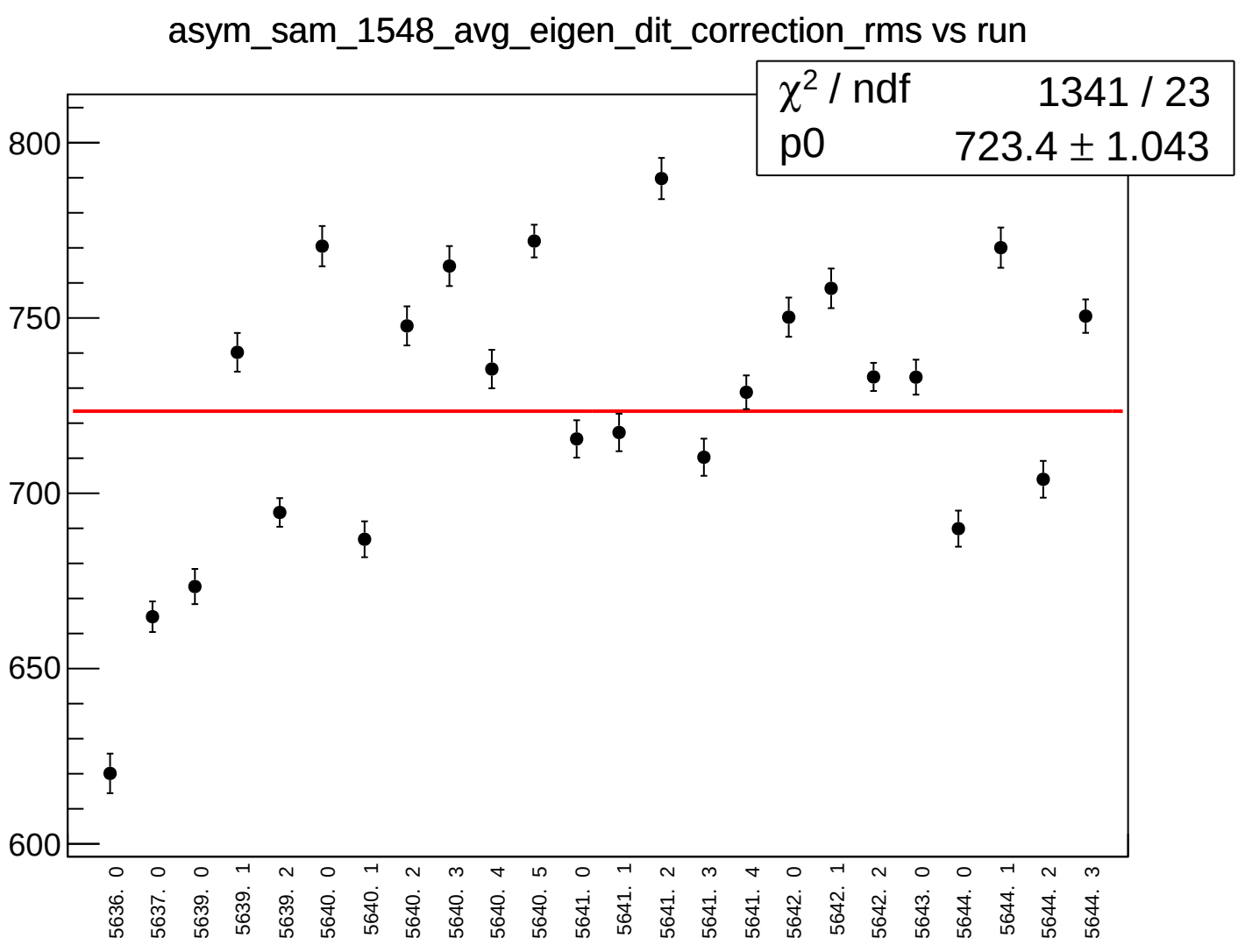

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 20.5 / 23
p0 −800.6 ± 1475
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 4.216e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 1.549e−05
Std Dev 0.9242
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 1341 / 23
p0 723.4 ± 1.043
800
750
700
650
600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 19.43 / 23
p0 4.217 ± 143.5
2000
1000
0
−1000
−2000
−3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 42.25
Std Dev 0
pull1D
Entries 24
Mean −0.03059
Std Dev 0.8994


eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 8438 / 23
p0 69.85 ± 0.1015
110
100
90
80
70
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 20.5 / 23
p0 −800.6 ± 1475
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 4.209e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 1.552e−05
Std Dev 0.9242
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 1341 / 23
p0 723.4 ± 1.043
800
750
700
650
600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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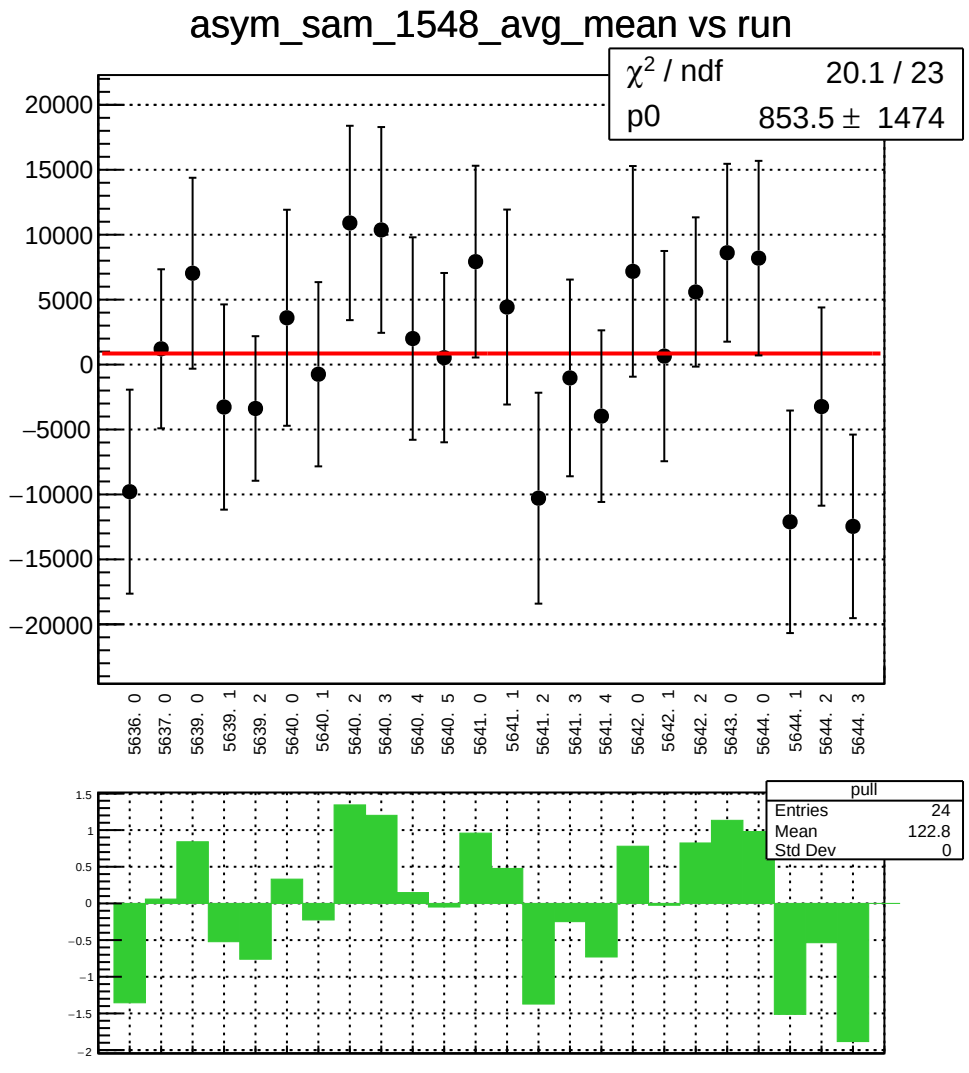
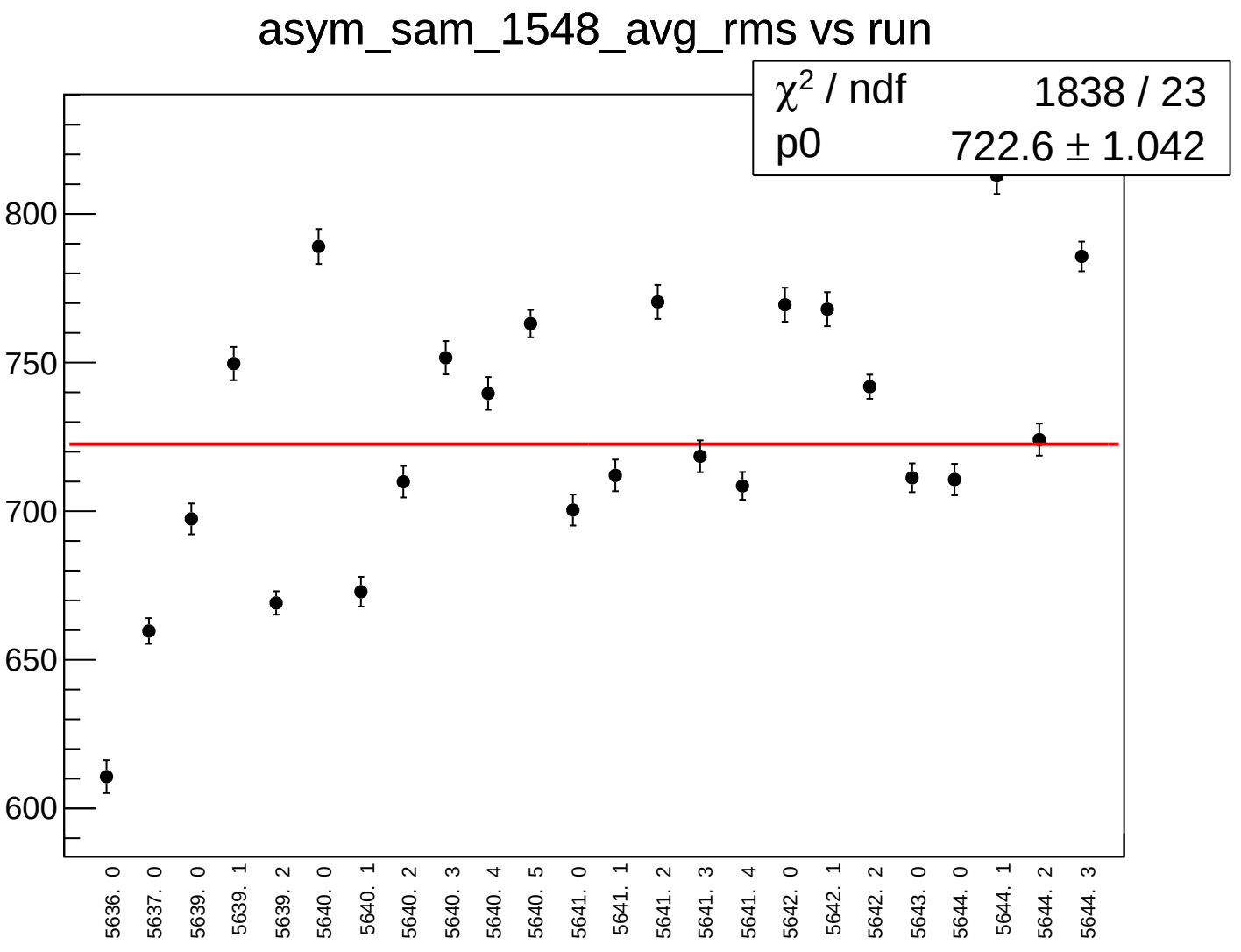
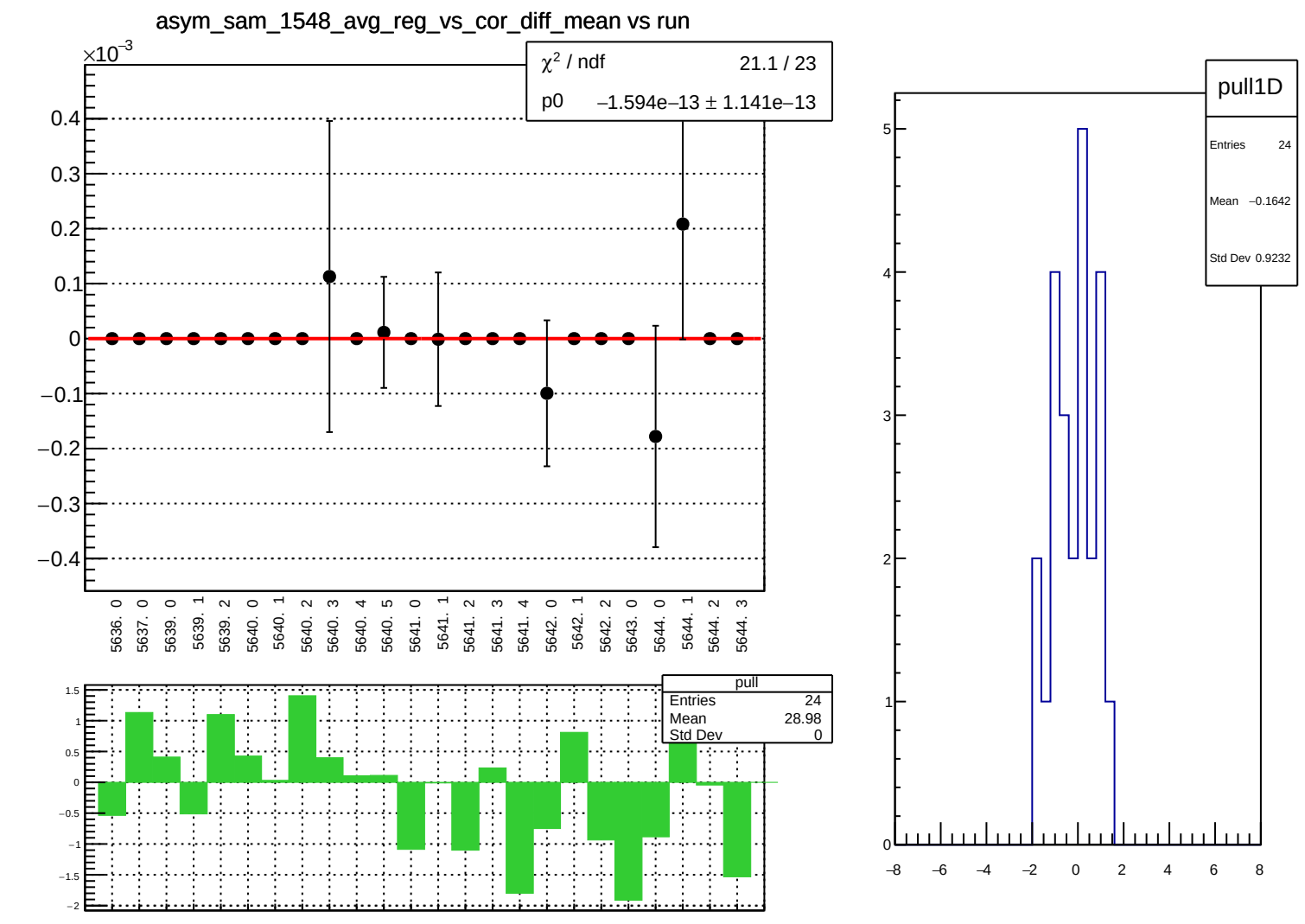
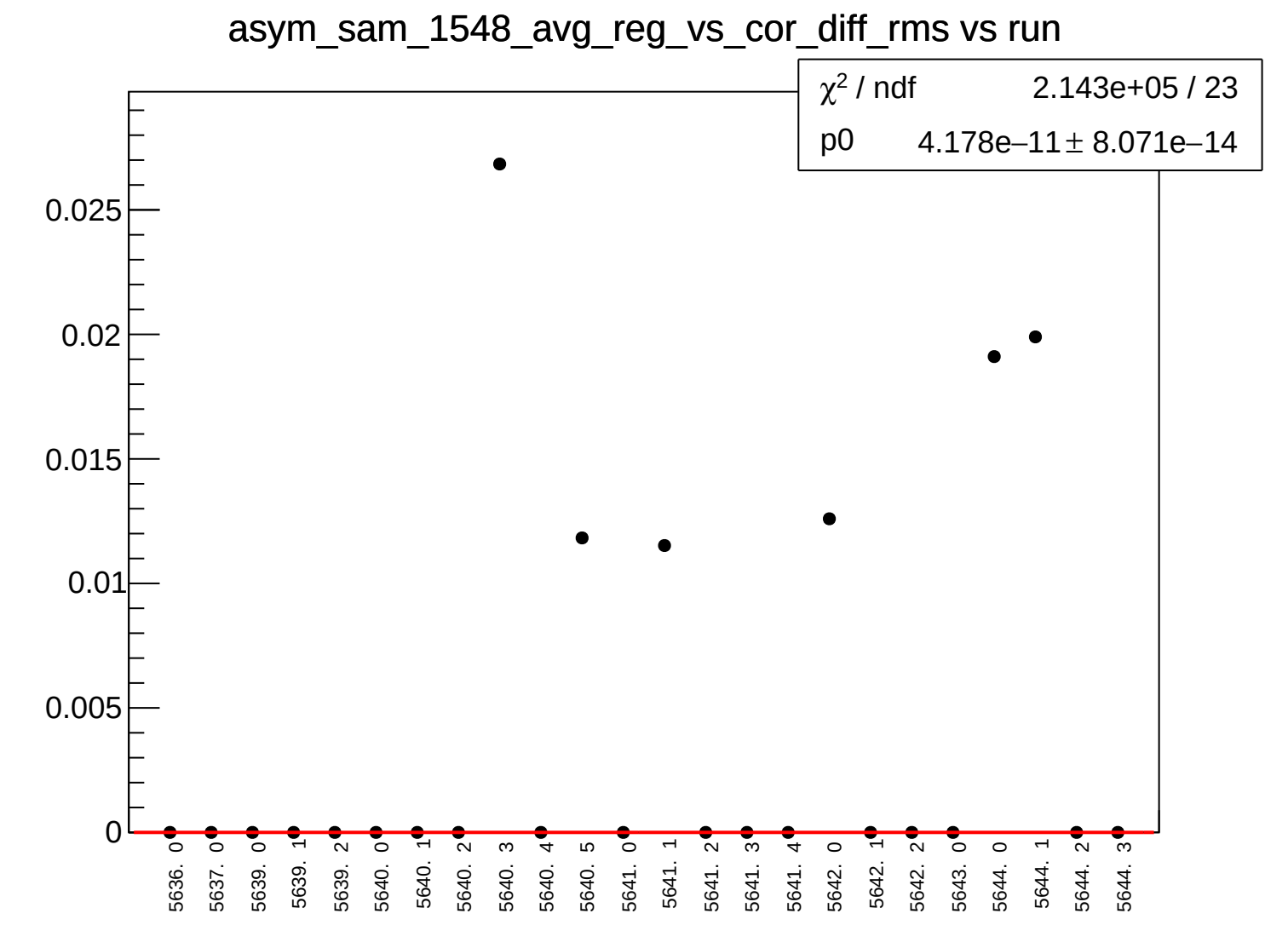
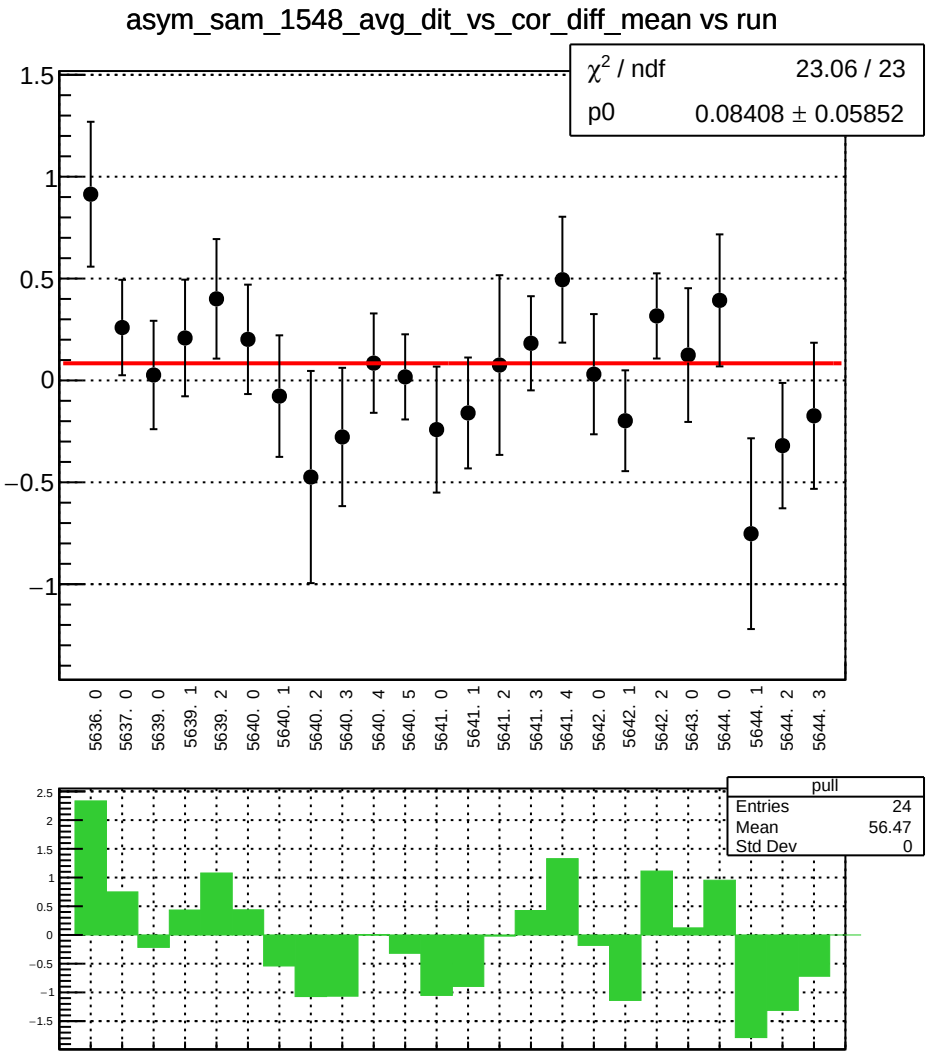
5644. 2
5644. 3

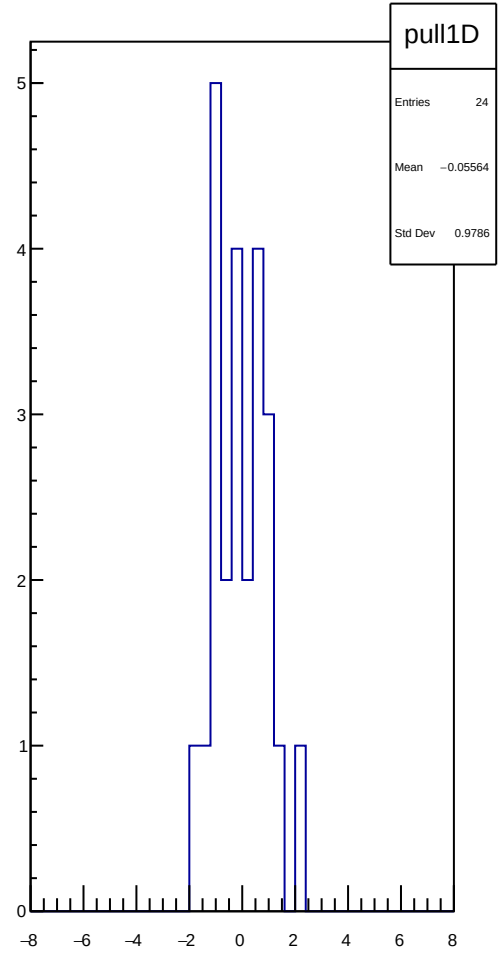

asym_sam_1548_avg_mean vs run
χ² / ndf 20.1 / 23
p0 853.5 ± 1474
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 122.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.005982
Std Dev 0.9152
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

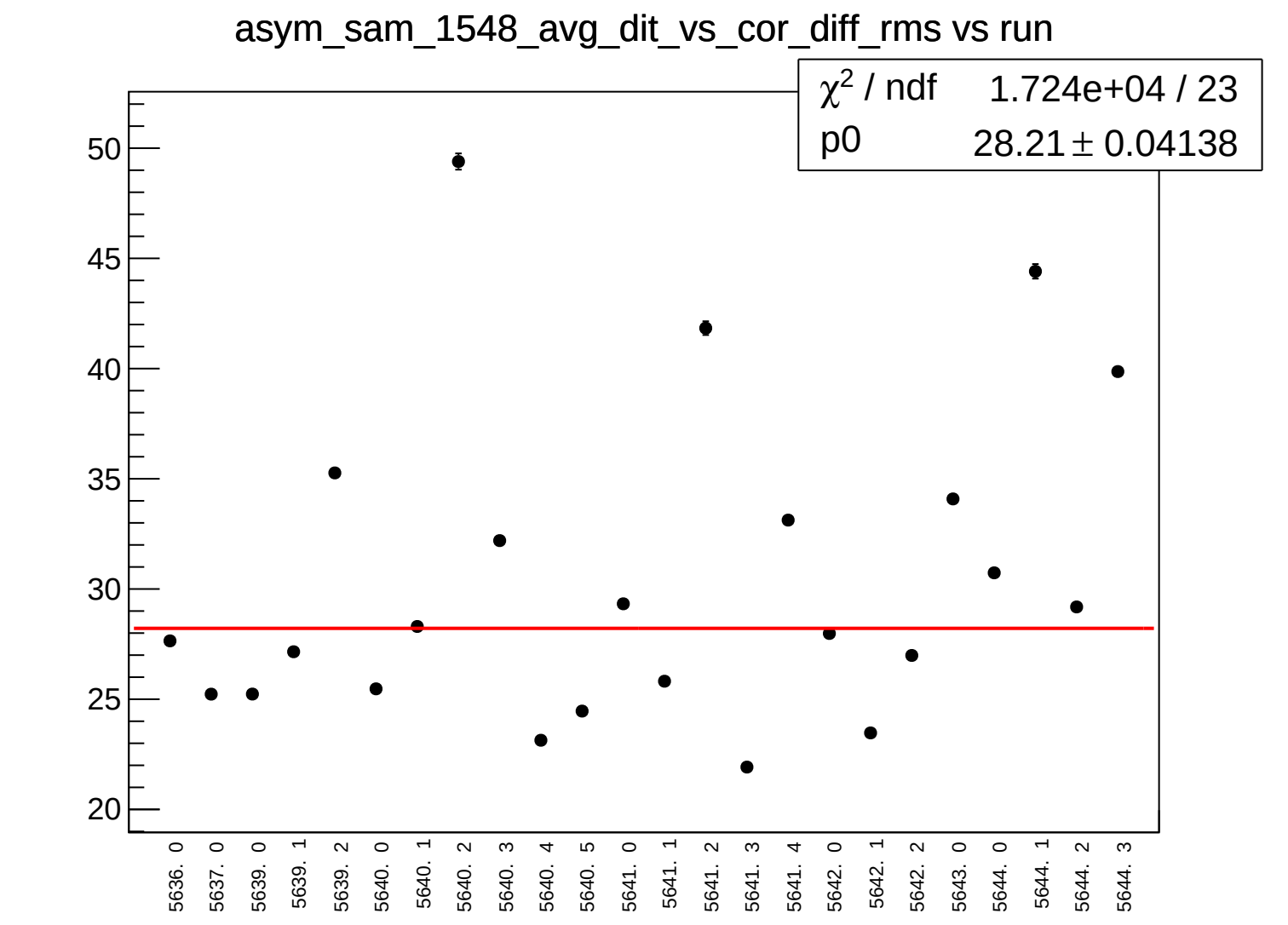

asym_sam_1548_avg_rms vs run
χ² / ndf 1838 / 23
p0 722.6 ± 1.042
800
750
700
650
600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 21.1 / 23
p0 −1.594e−13 ± 1.141e−13
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 28.98
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.1642
Std Dev 0.9232
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.143e+05 / 23
p0 4.178e−11 ± 8.071e−14
0.025
0.02
0.015
0.01
0.005
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 23.06 / 23
p0 0.08408 ± 0.05852
1.5
1
0.5
0
−0.5
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 56.47
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean −0.05564
Std Dev 0.9786
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.724e+04 / 23
p0 28.21 ± 0.04138
50
45
40
35
30
25
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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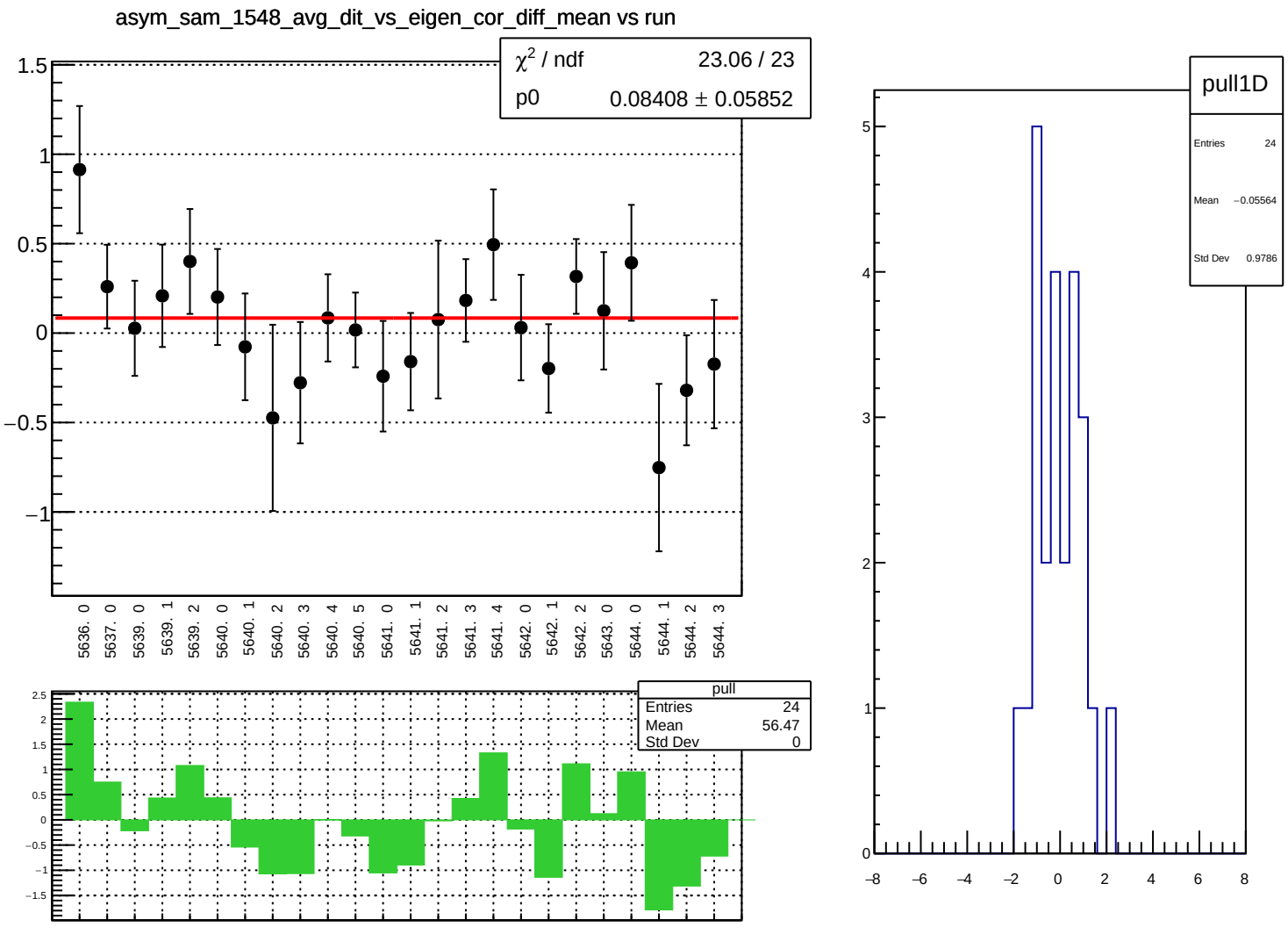
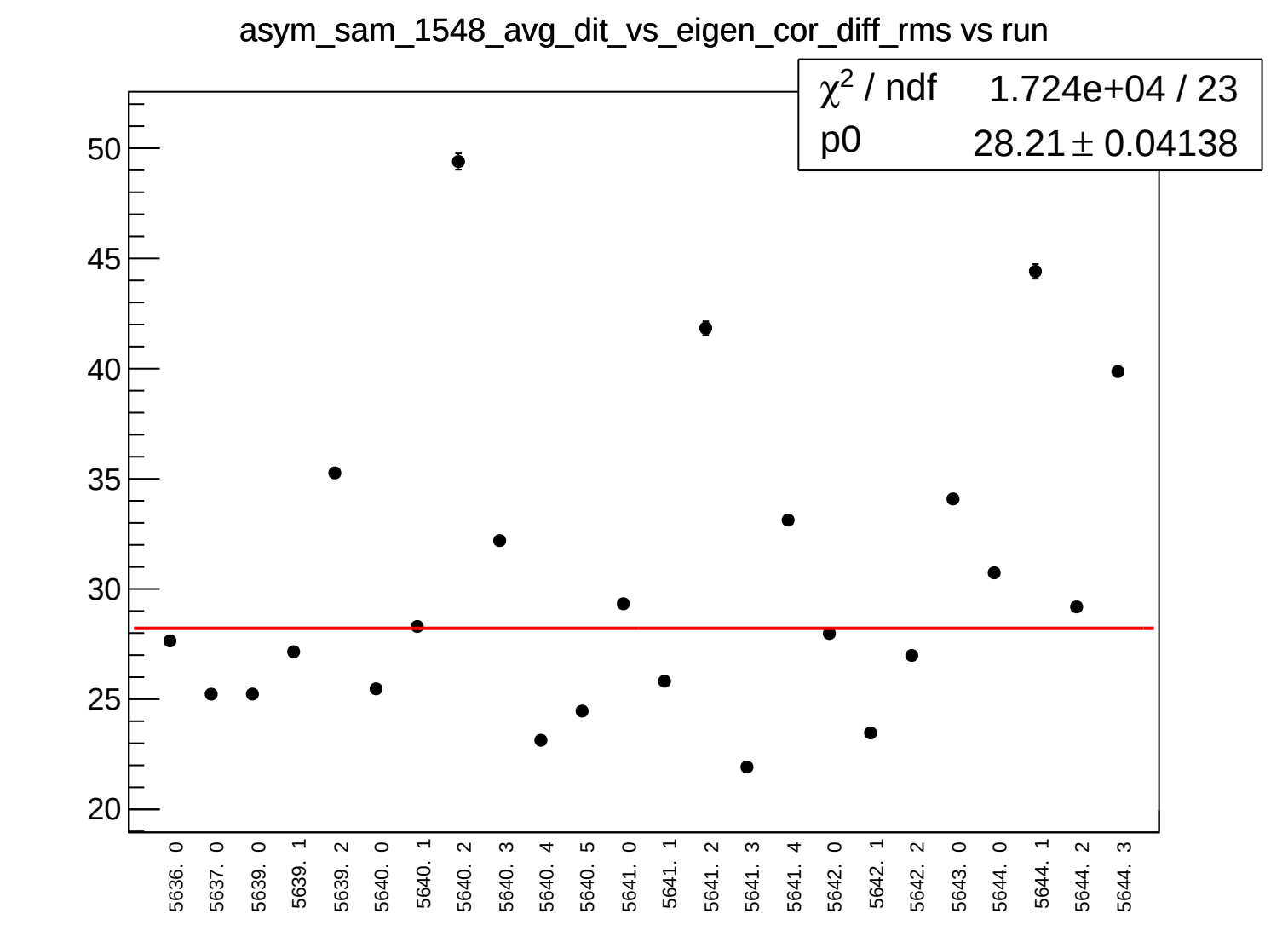
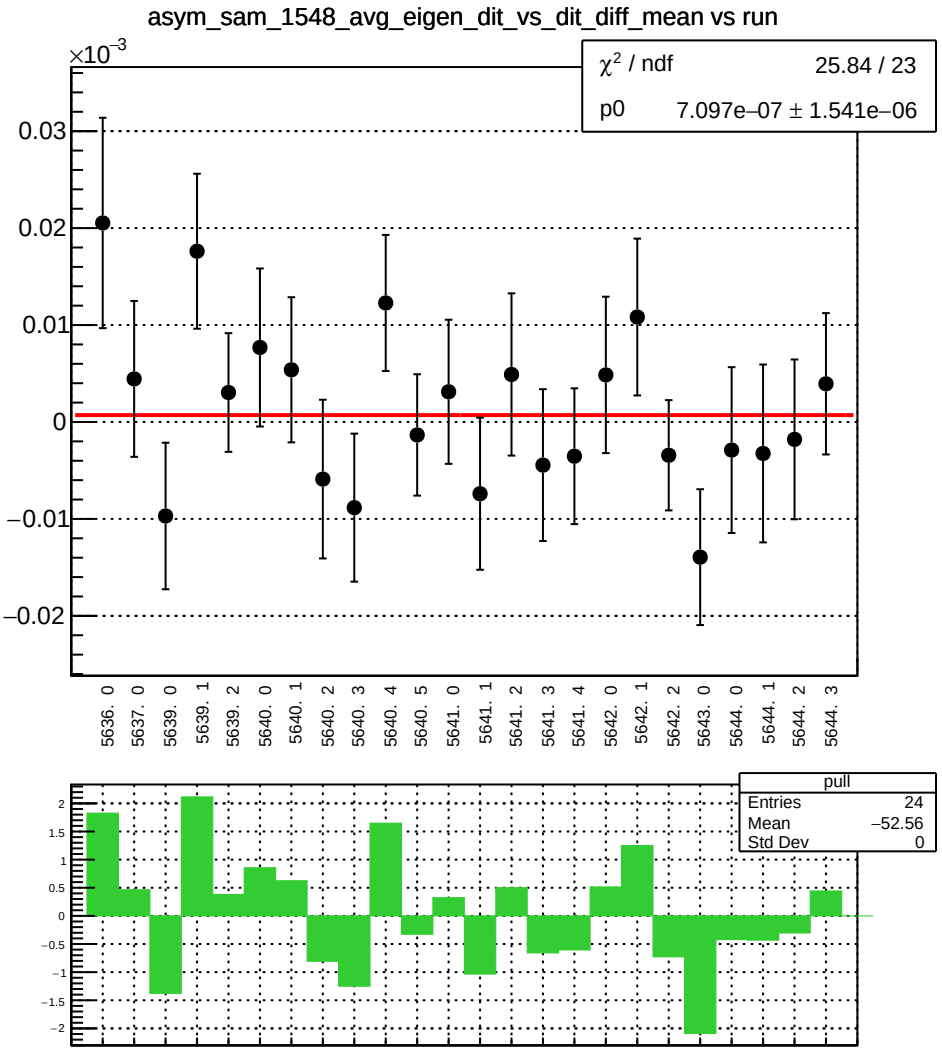
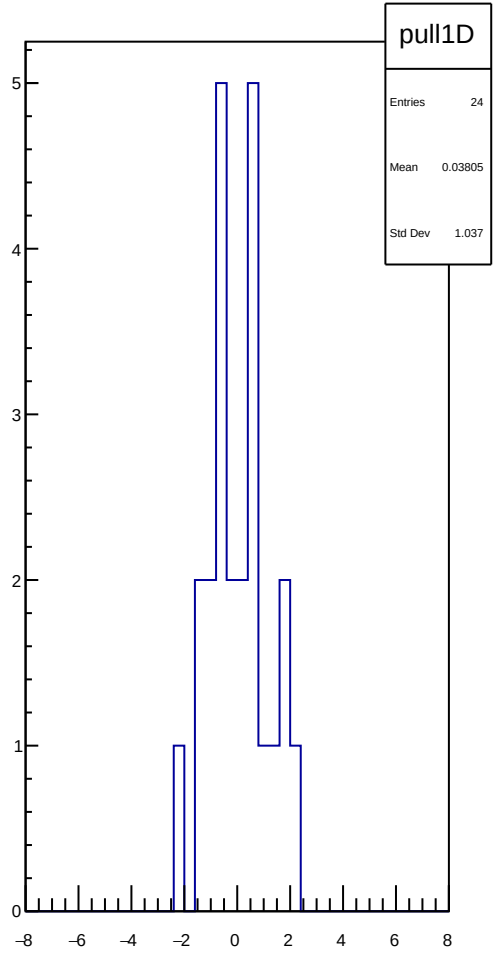
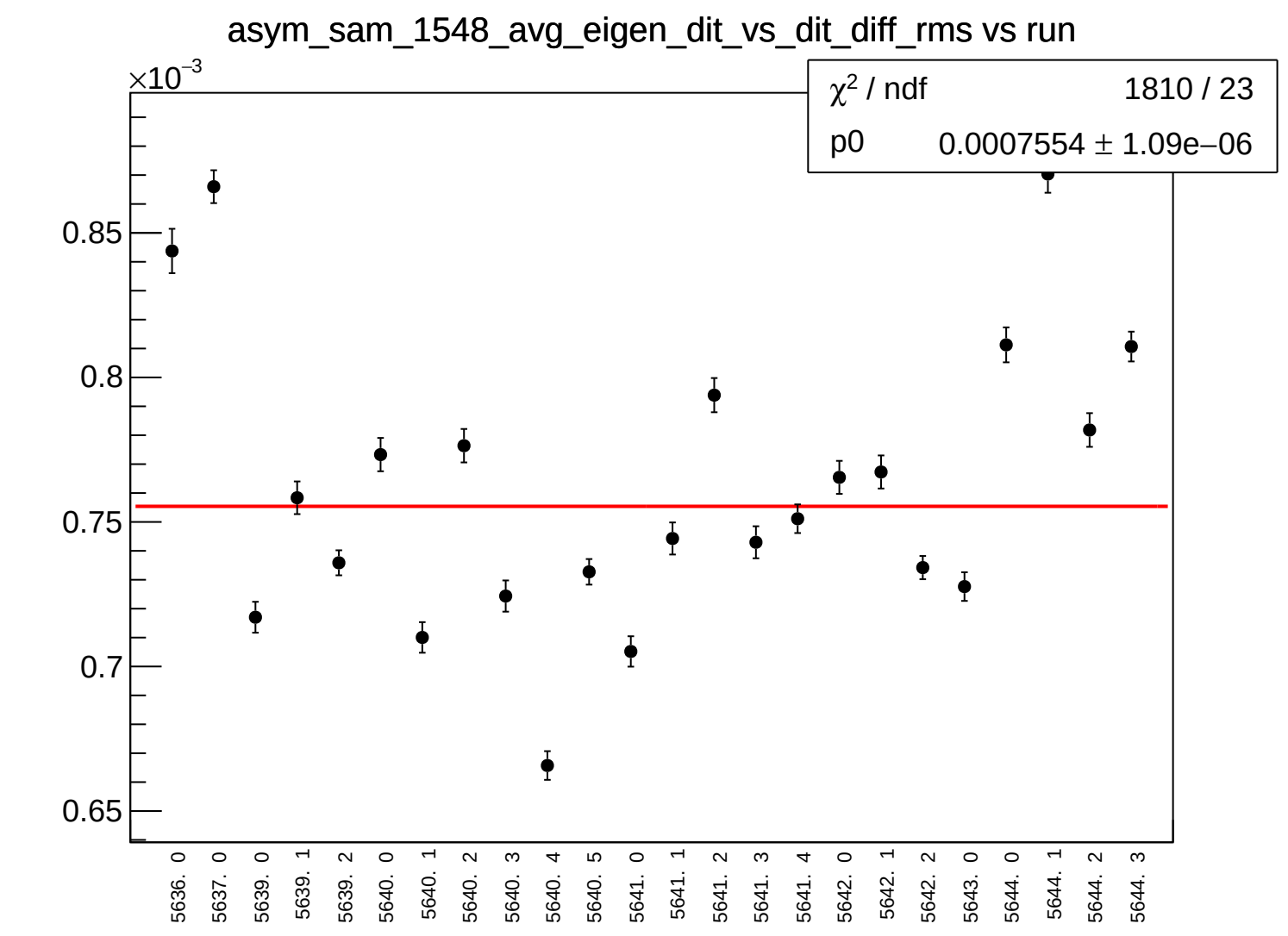
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

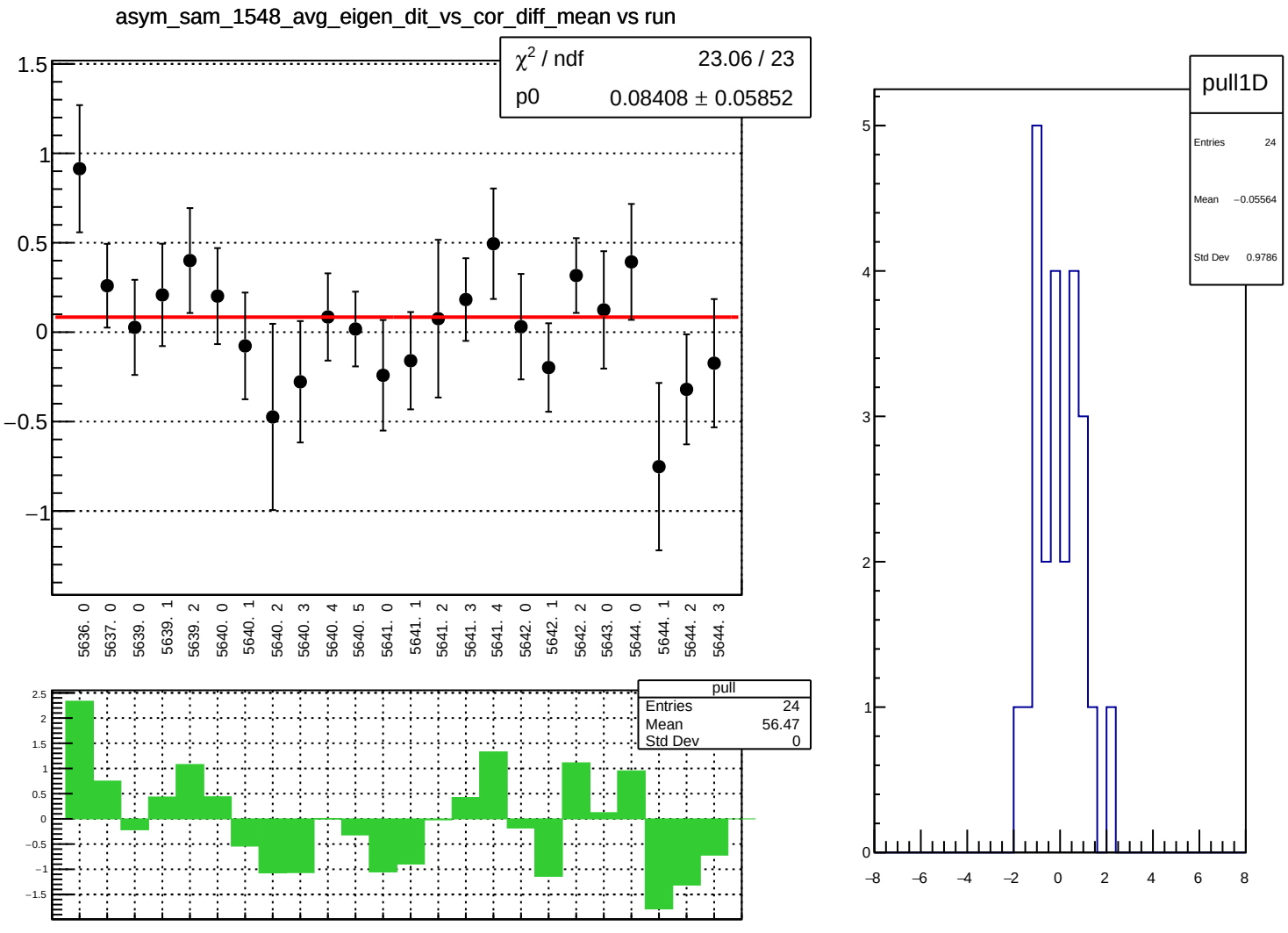

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 23.06 / 23
p0 0.08408 ± 0.05852
1.5
1
0.5
0
−0.5
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 56.47
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.05564
Std Dev 0.9786
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

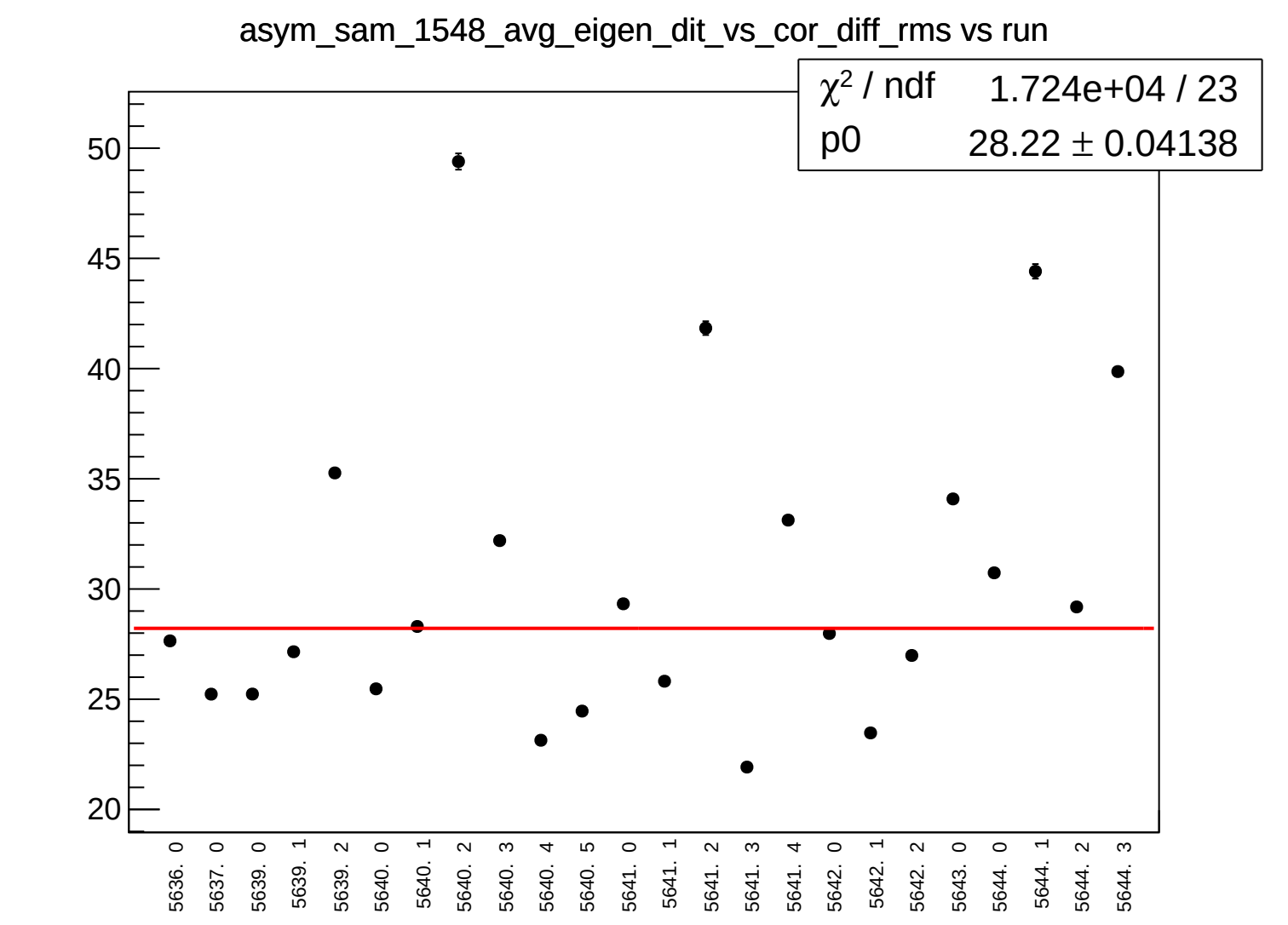

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.724e+04 / 23
p0 28.21 ± 0.04138
50
45
40
35
30
25
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

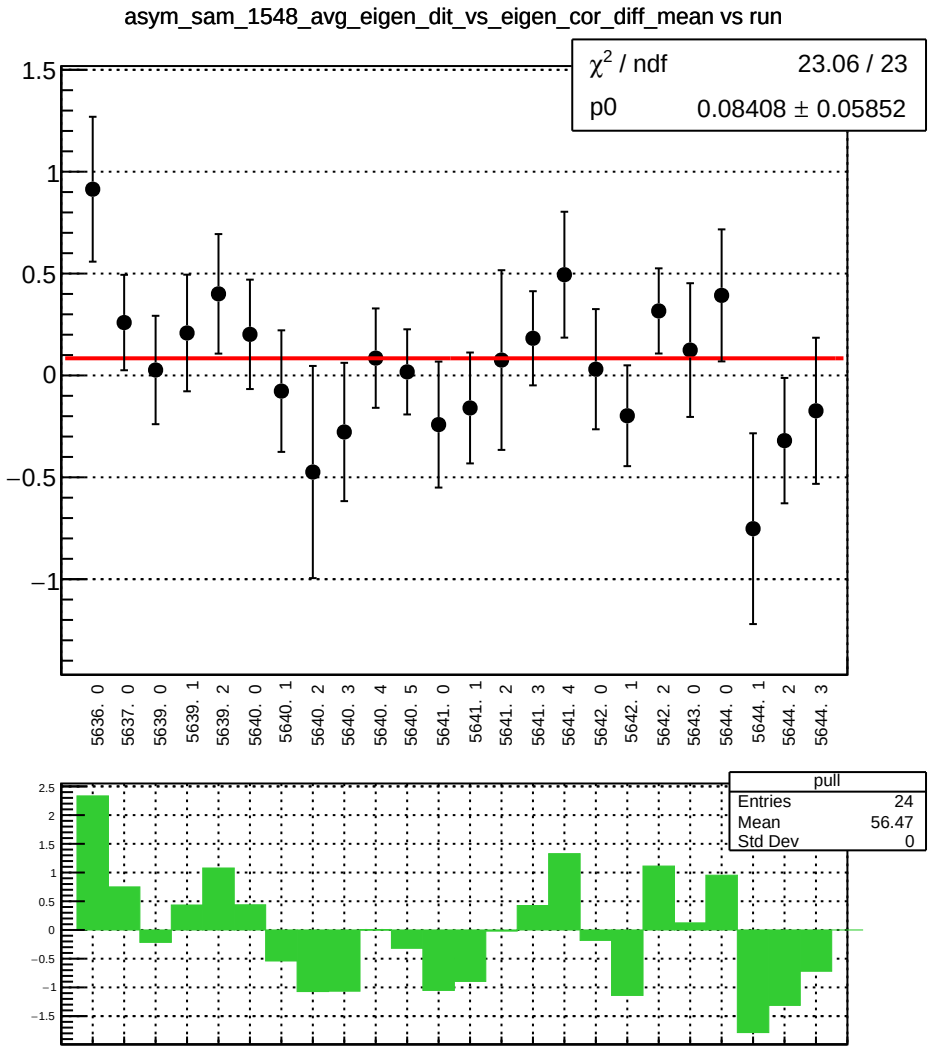

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 25.84 / 23
p0 7.097e−07 ± 1.541e−06
0.03
0.02
0.01
0
−0.01
−0.02
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −52.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

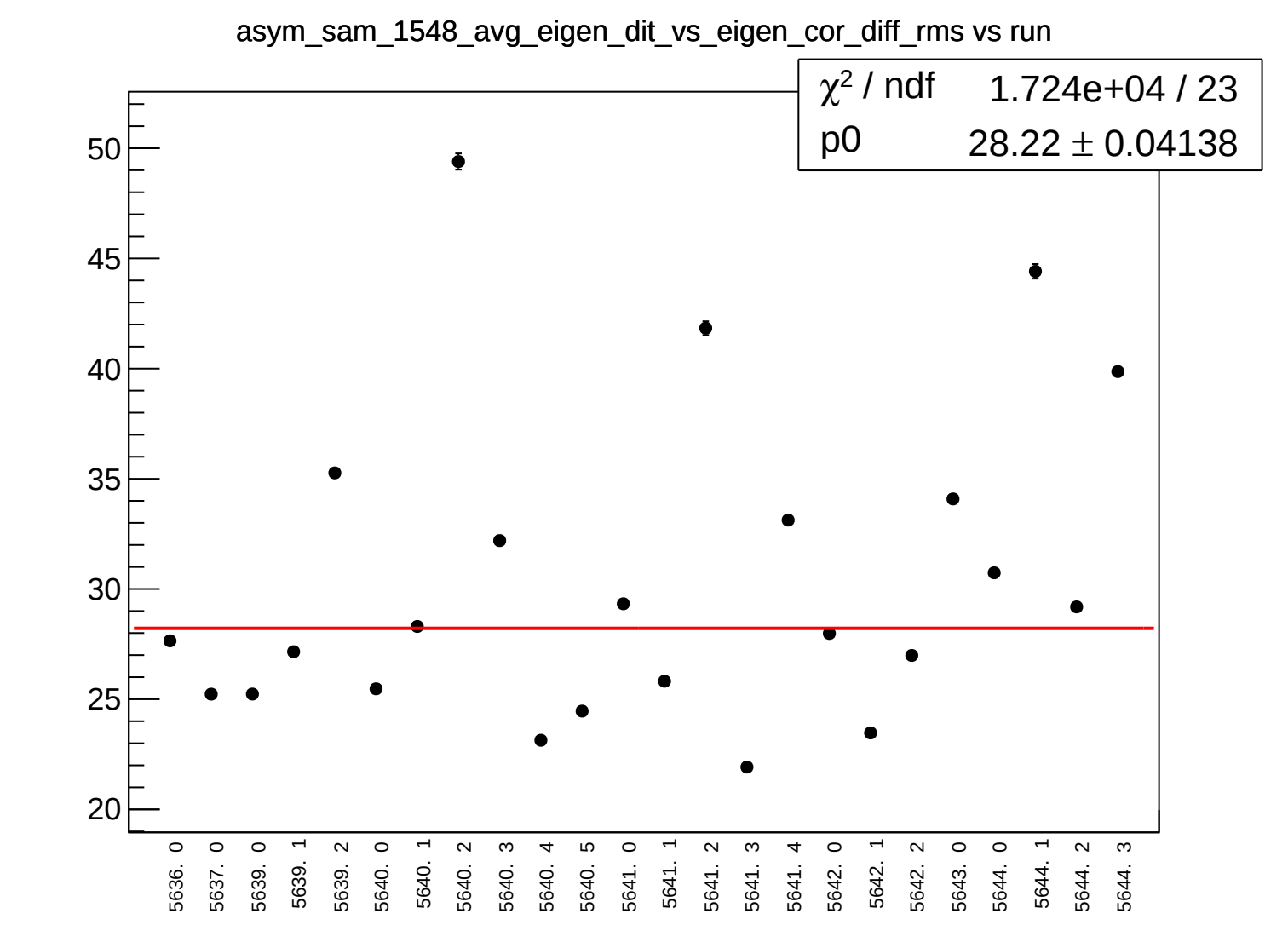

pull1D
Entries 24
Mean 0.03805
Std Dev 1.037
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

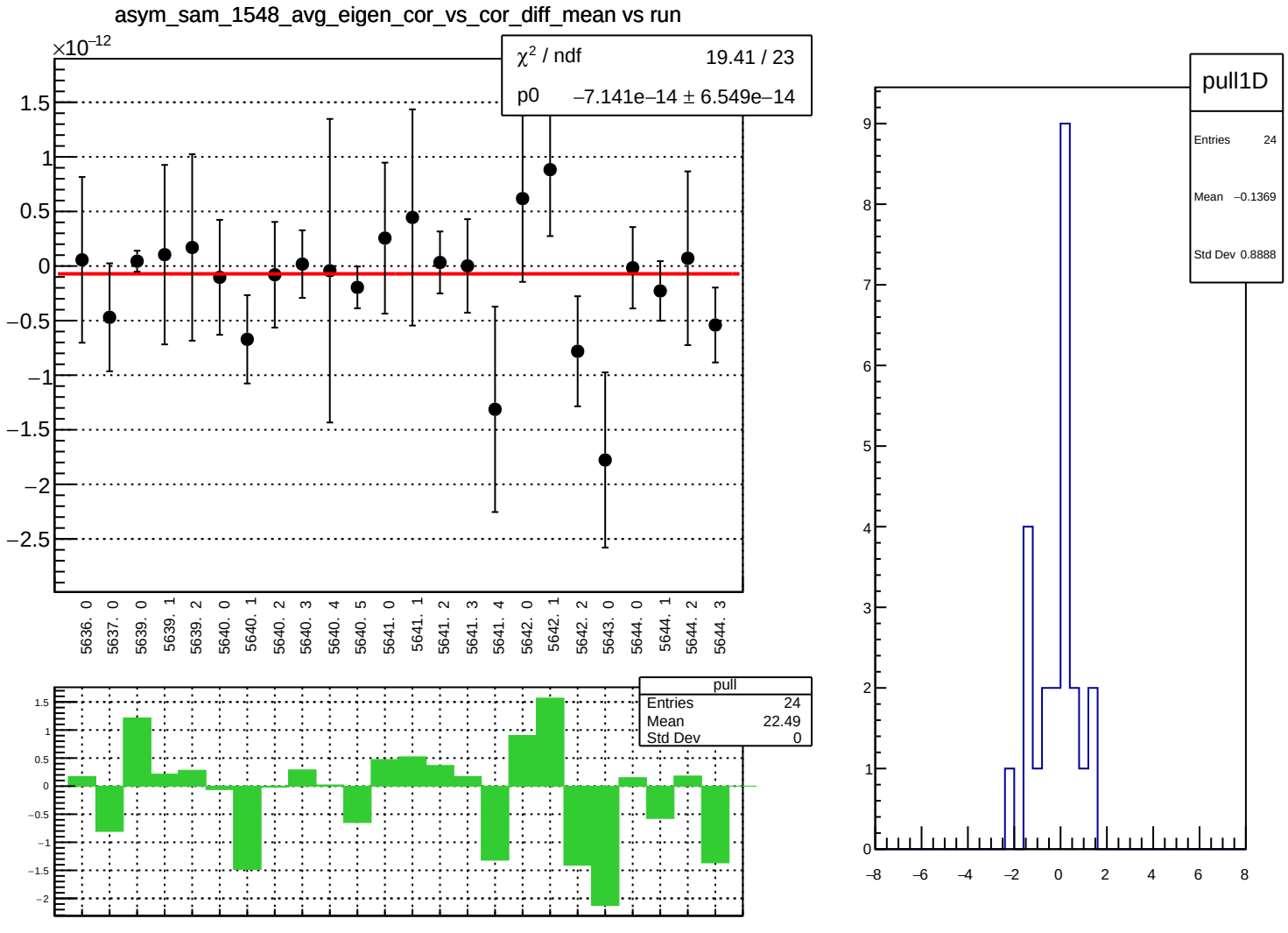

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1810 / 23
p0 0.0007554 ± 1.09e−06
0.85
0.8
0.75
0.7
0.65
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

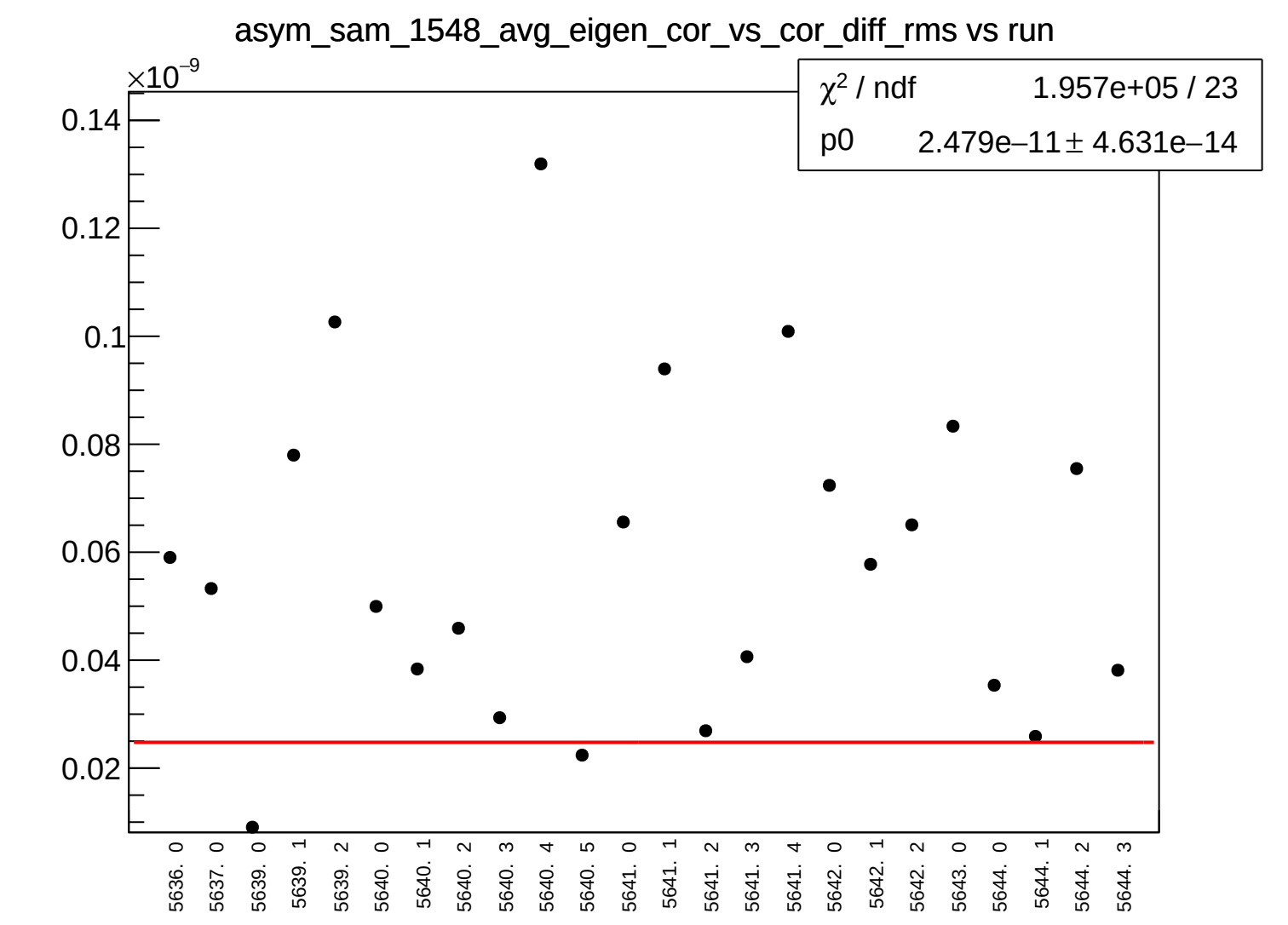

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 23.06 / 23
p0 0.08408 ± 0.05852
1.5
1
0.5
0
−0.5
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 56.47
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.05564
Std Dev 0.9786
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

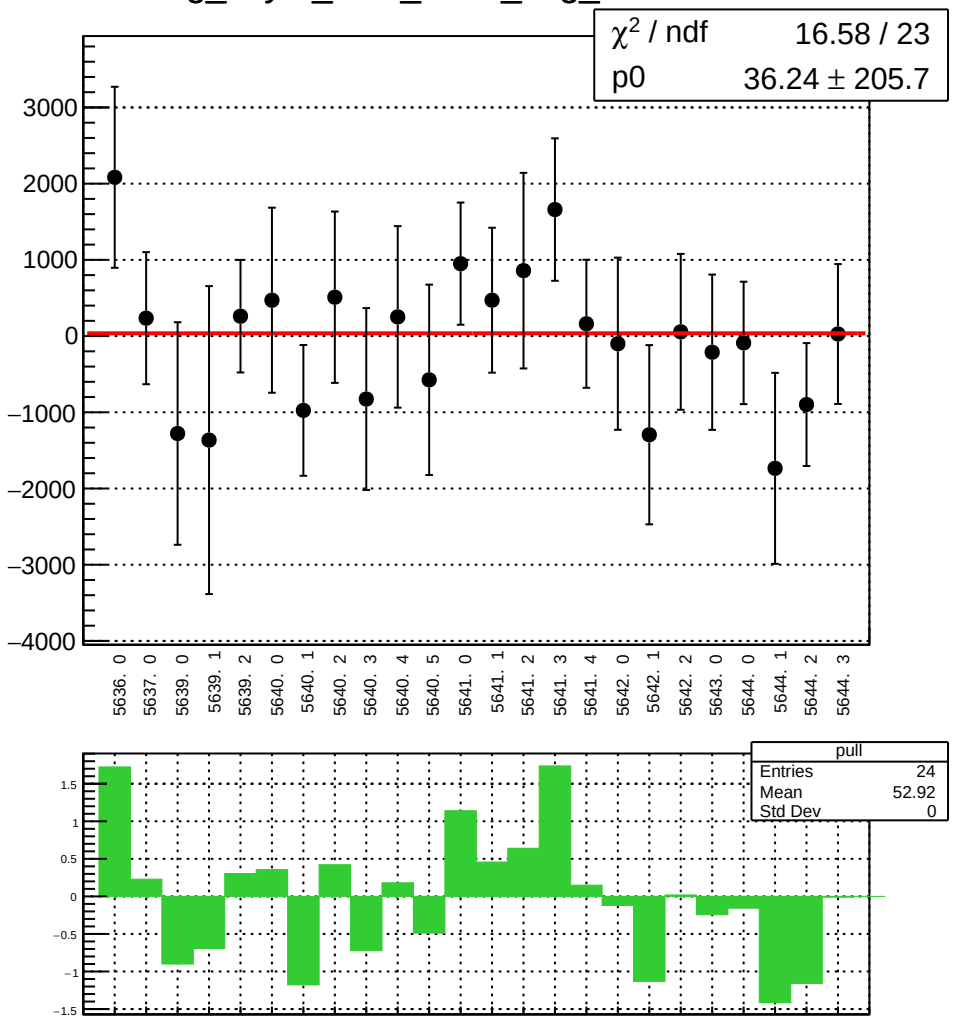

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.724e+04 / 23
p0 28.22 ± 0.04138
50
45
40
35
30
25
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

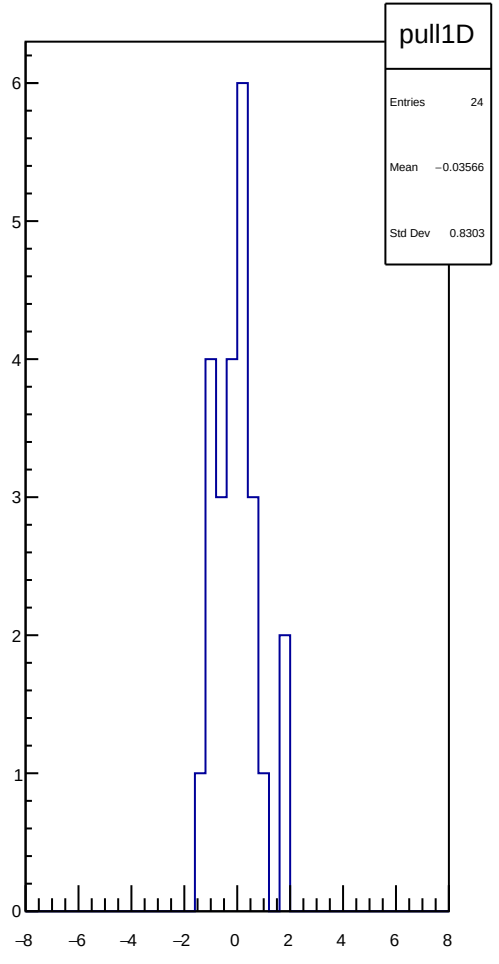

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 23.06 / 23
p0 0.08408 ± 0.05852
1.5
1
0.5
0
−0.5
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 56.47
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.05564
Std Dev 0.9786
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

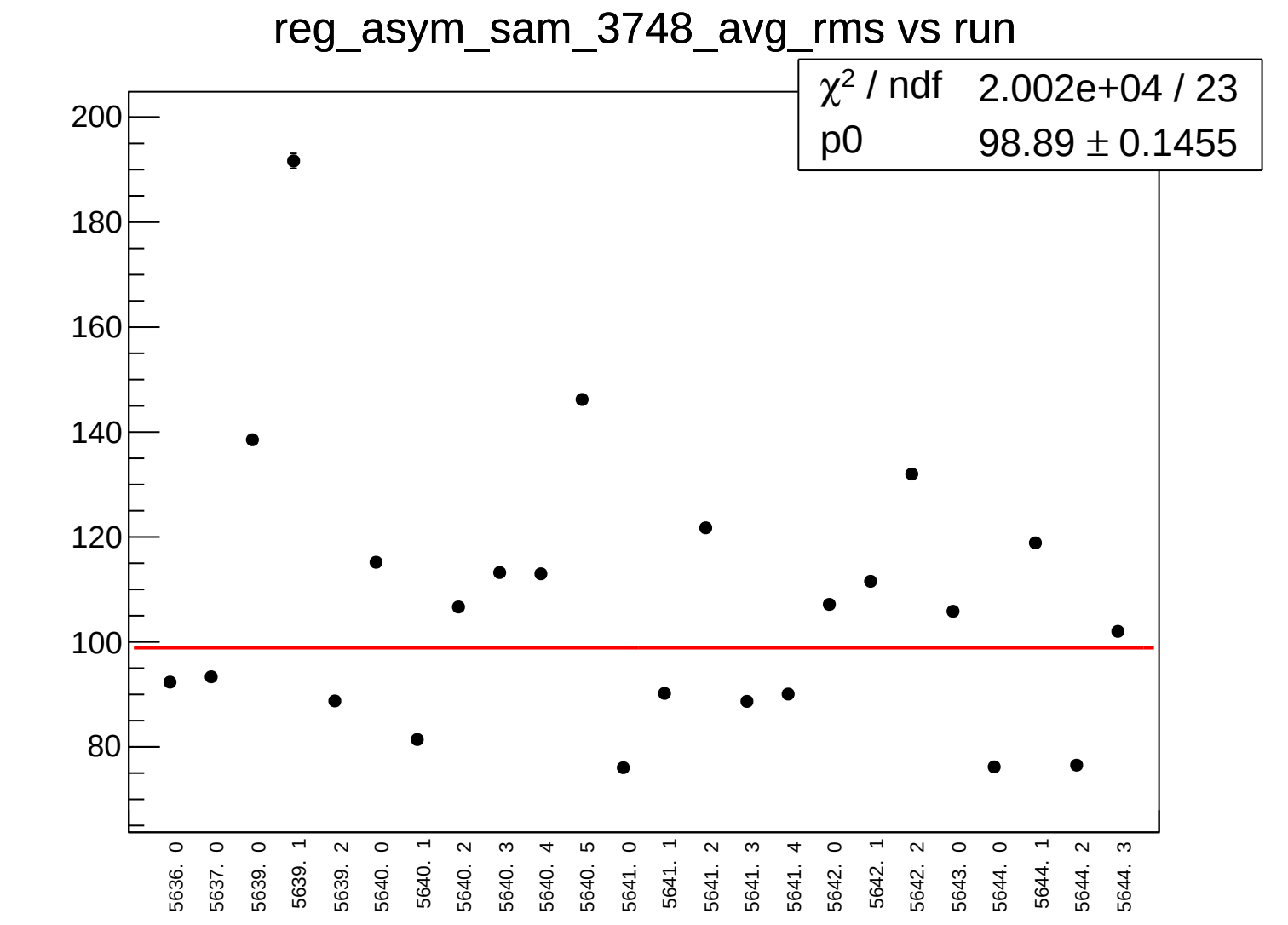

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.724e+04 / 23
p0 28.22 ± 0.04138
50
45
40
35
30
25
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

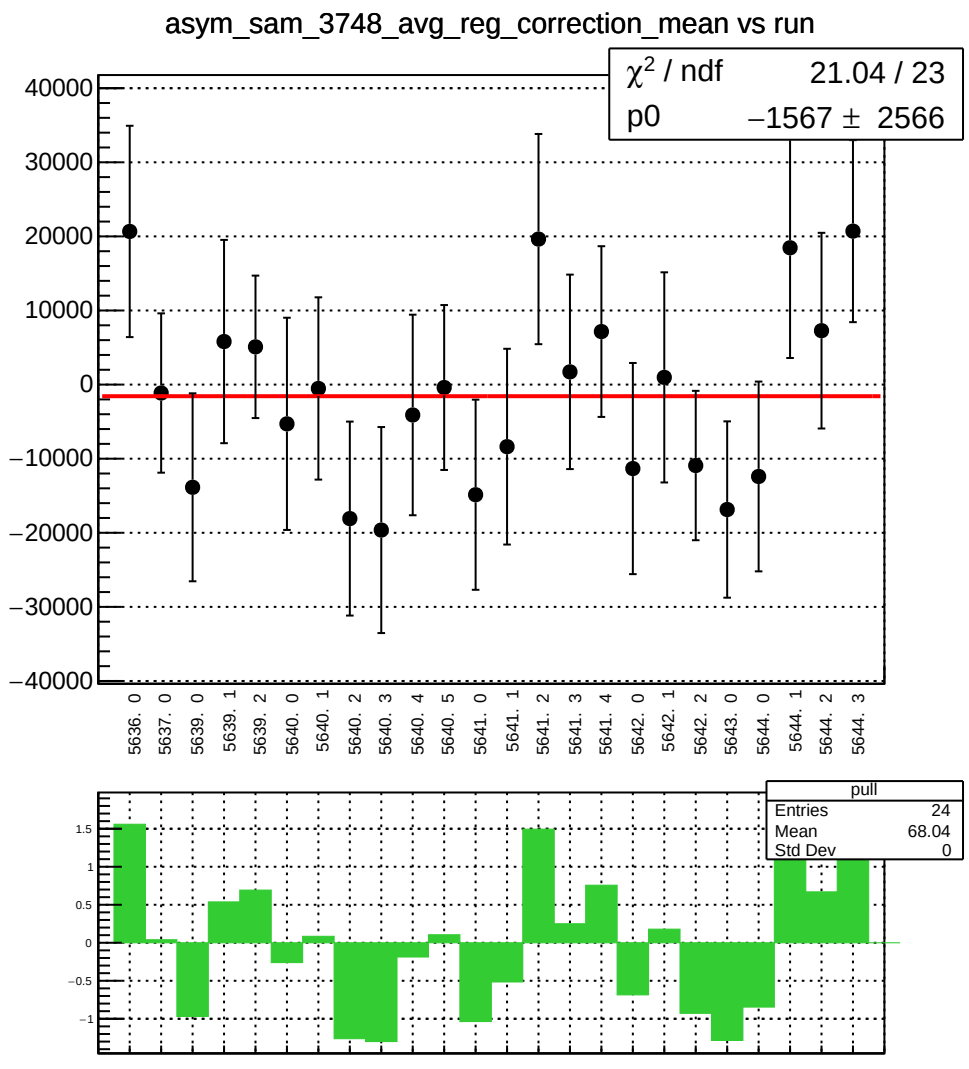

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 19.41 / 23
p0 −7.141e−14 ± 6.549e−14
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 22.49
Std Dev 0
pull1D
Entries 24
Mean −0.1369
Std Dev 0.8888
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

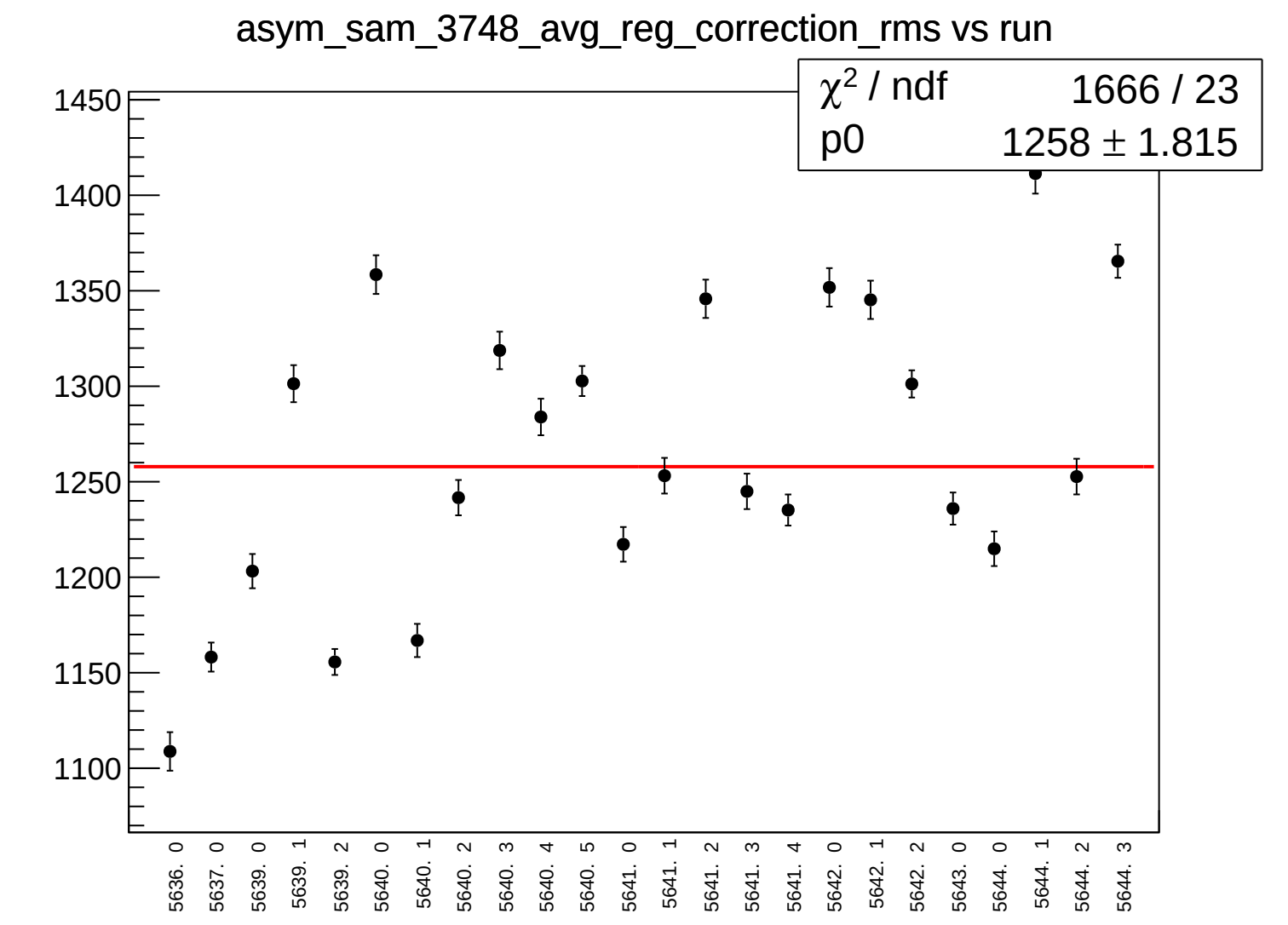

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.957e+05 / 23
p0 2.479e−11 ± 4.631e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

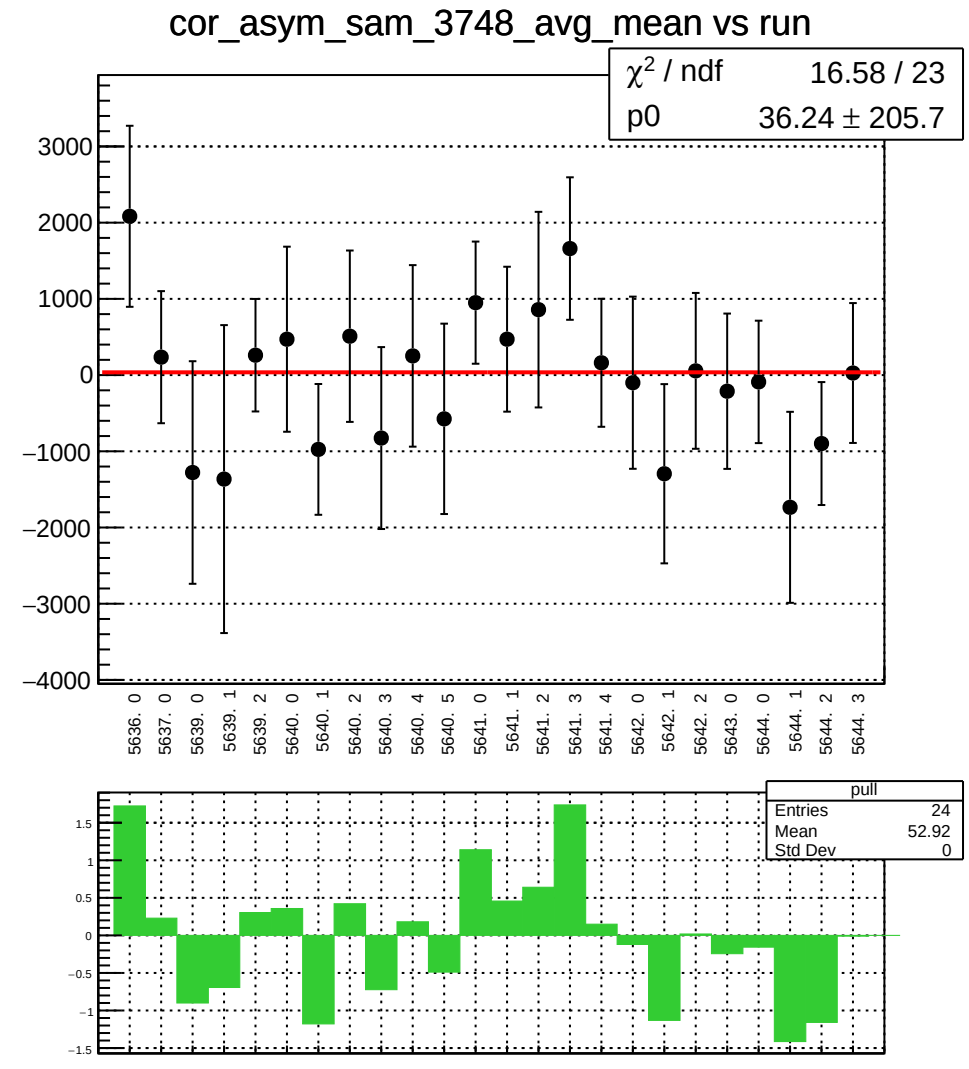

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 16.58 / 23
p0 36.24 ± 205.7
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 52.92
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

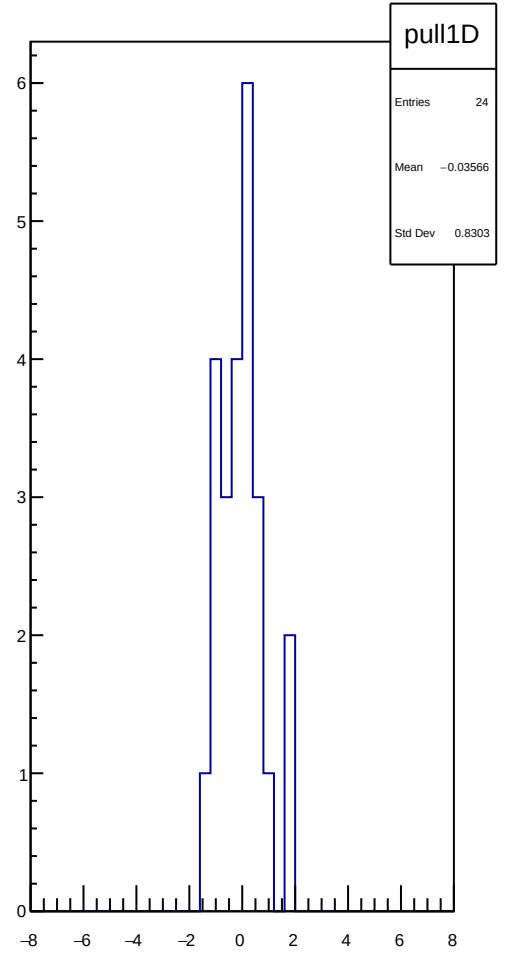

pull1D
Entries 24
Mean −0.03566
Std Dev 0.8303
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

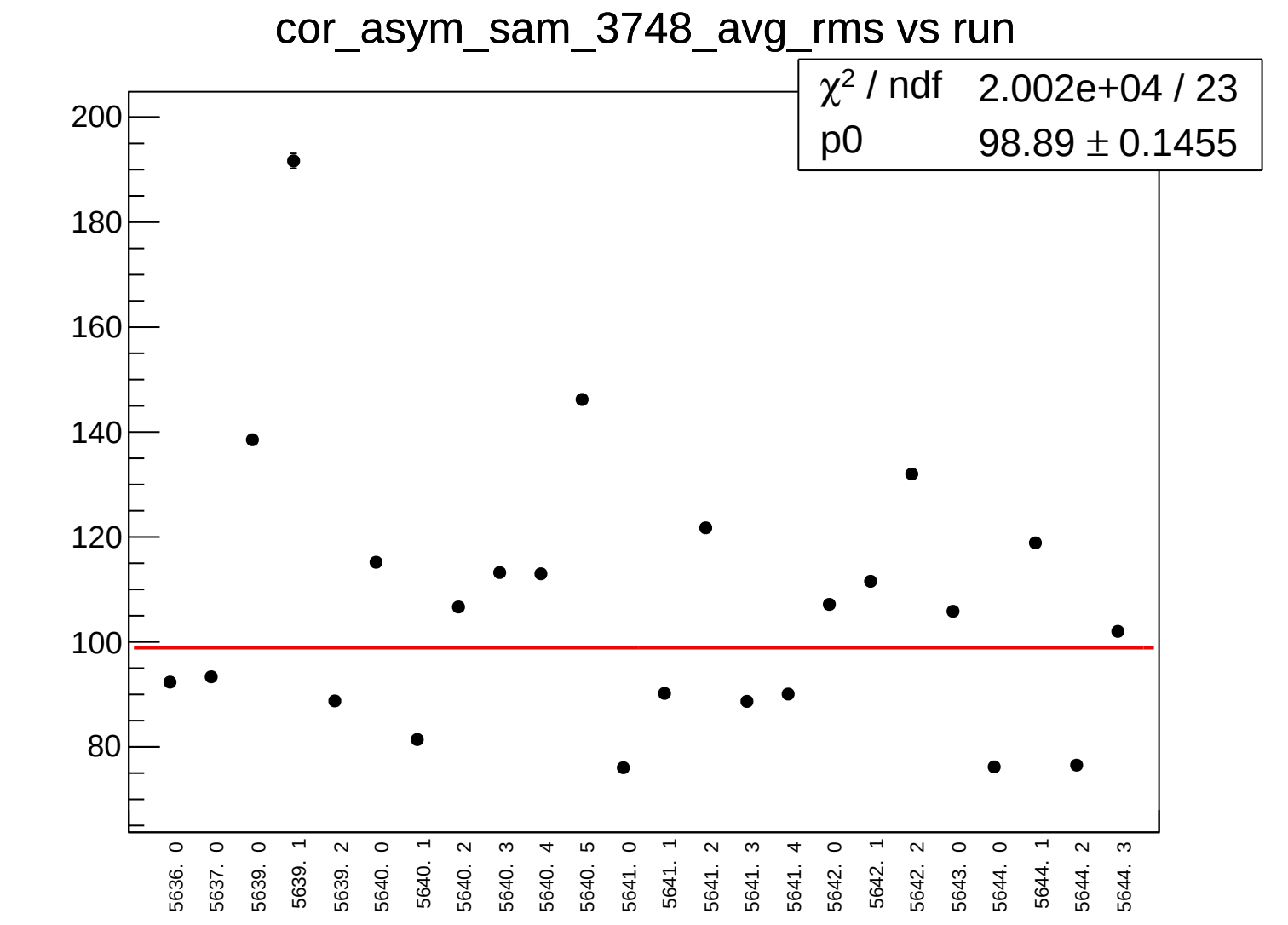

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 2.002e+04 / 23
p0 98.89 ± 0.1455
200
180
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

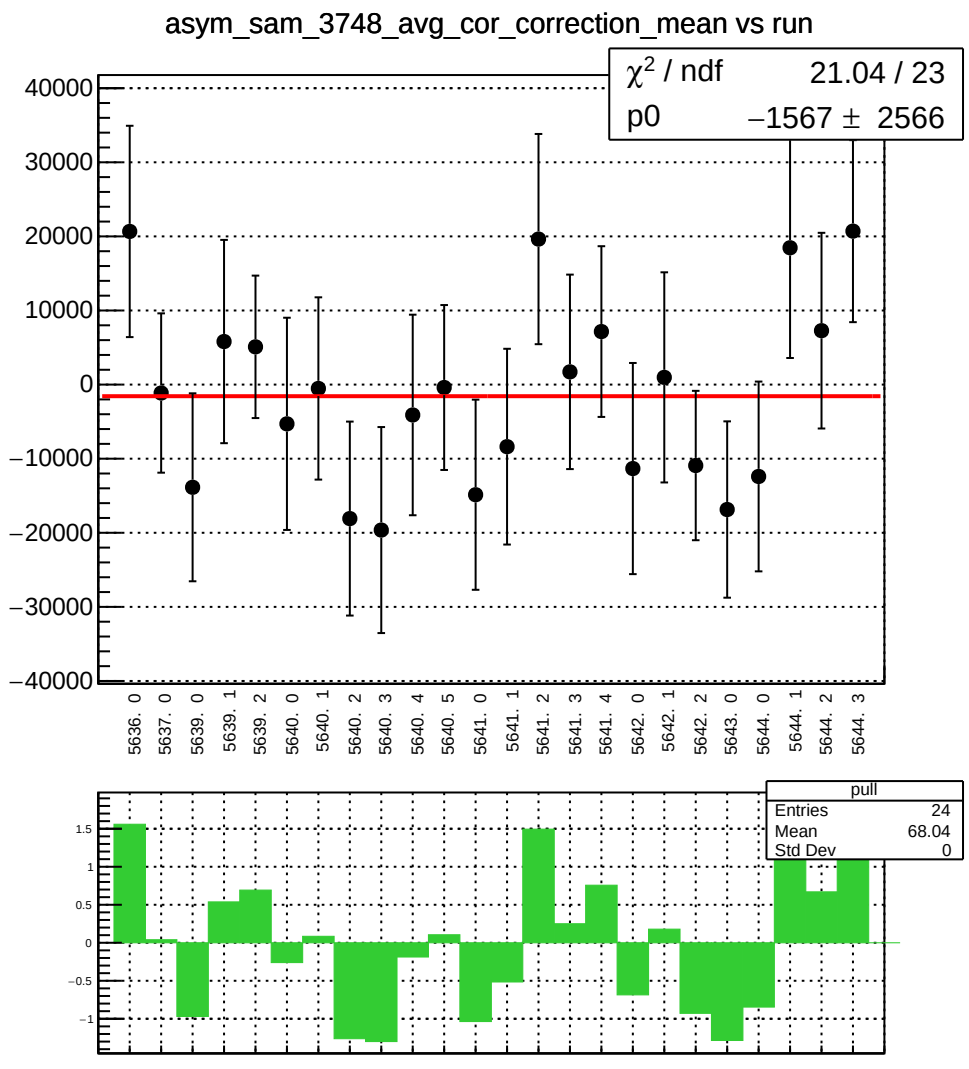

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 21.04 / 23
p0 −1567 ± 2566
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 68.04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.01067
Std Dev 0.9362
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

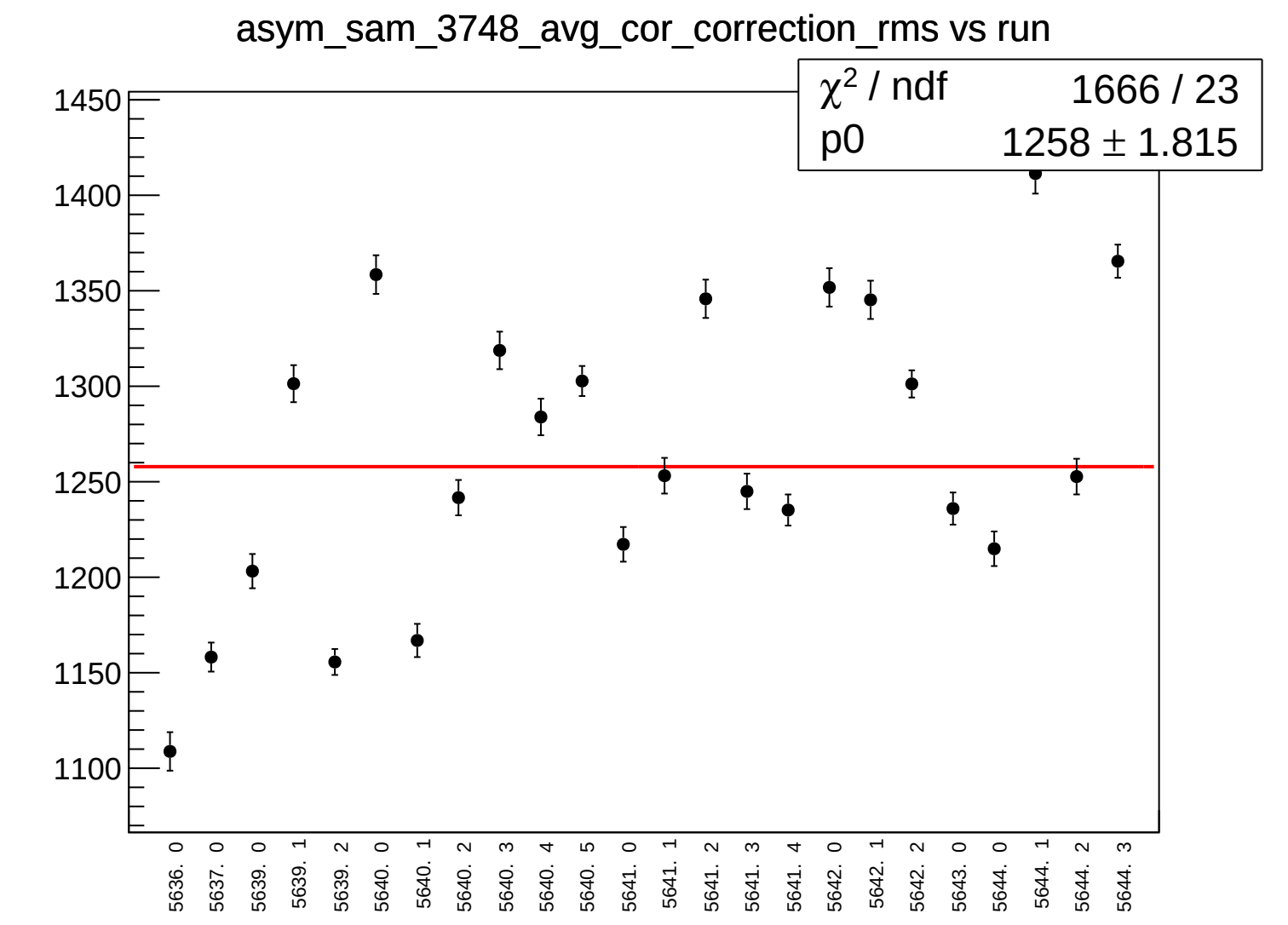

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 1666 / 23
p0 1258 ± 1.815
1450
1400
1350
1300
1250
1200
1150
1100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

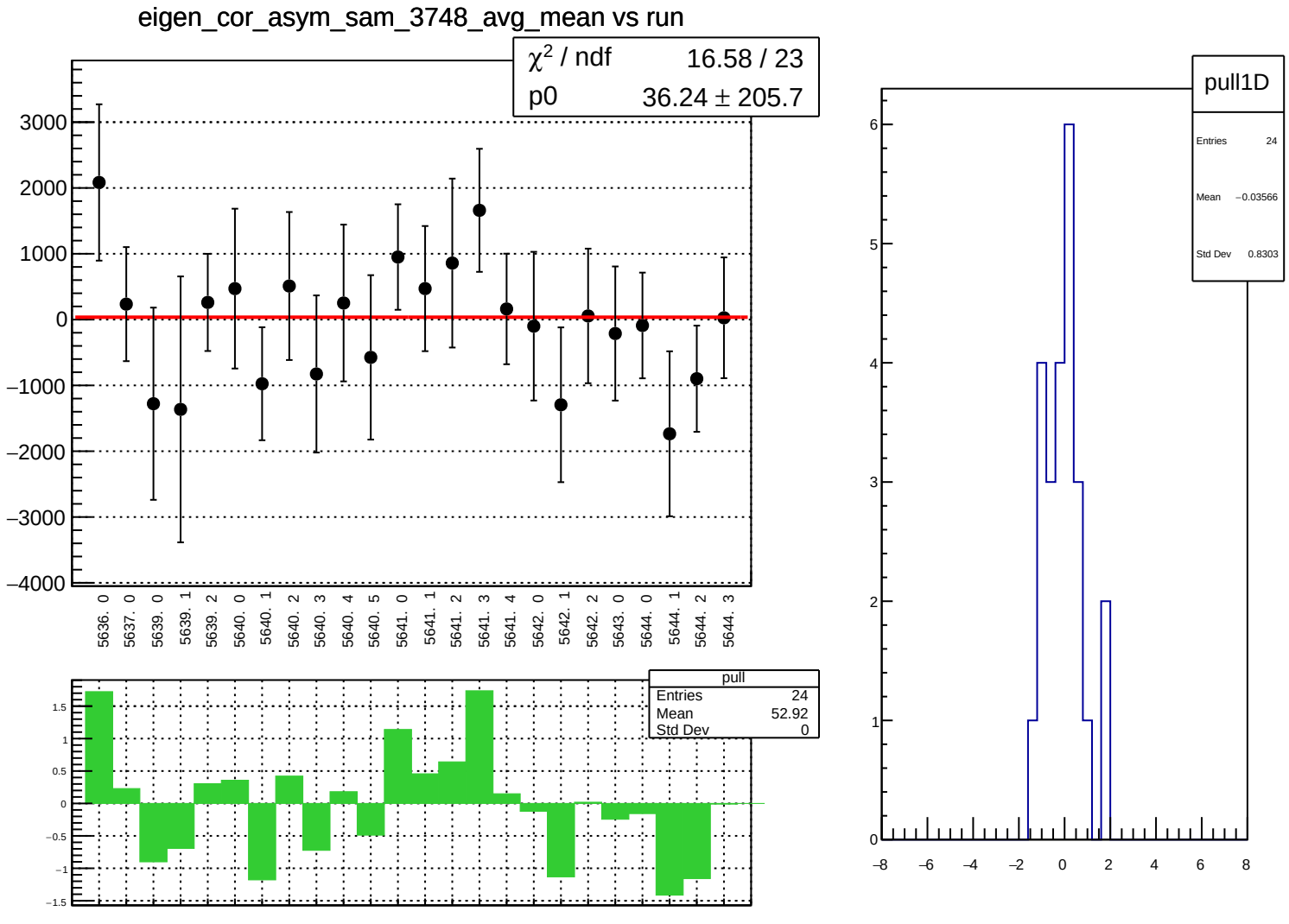

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 16.58 / 23
p0 36.24 ± 205.7
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 52.92
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

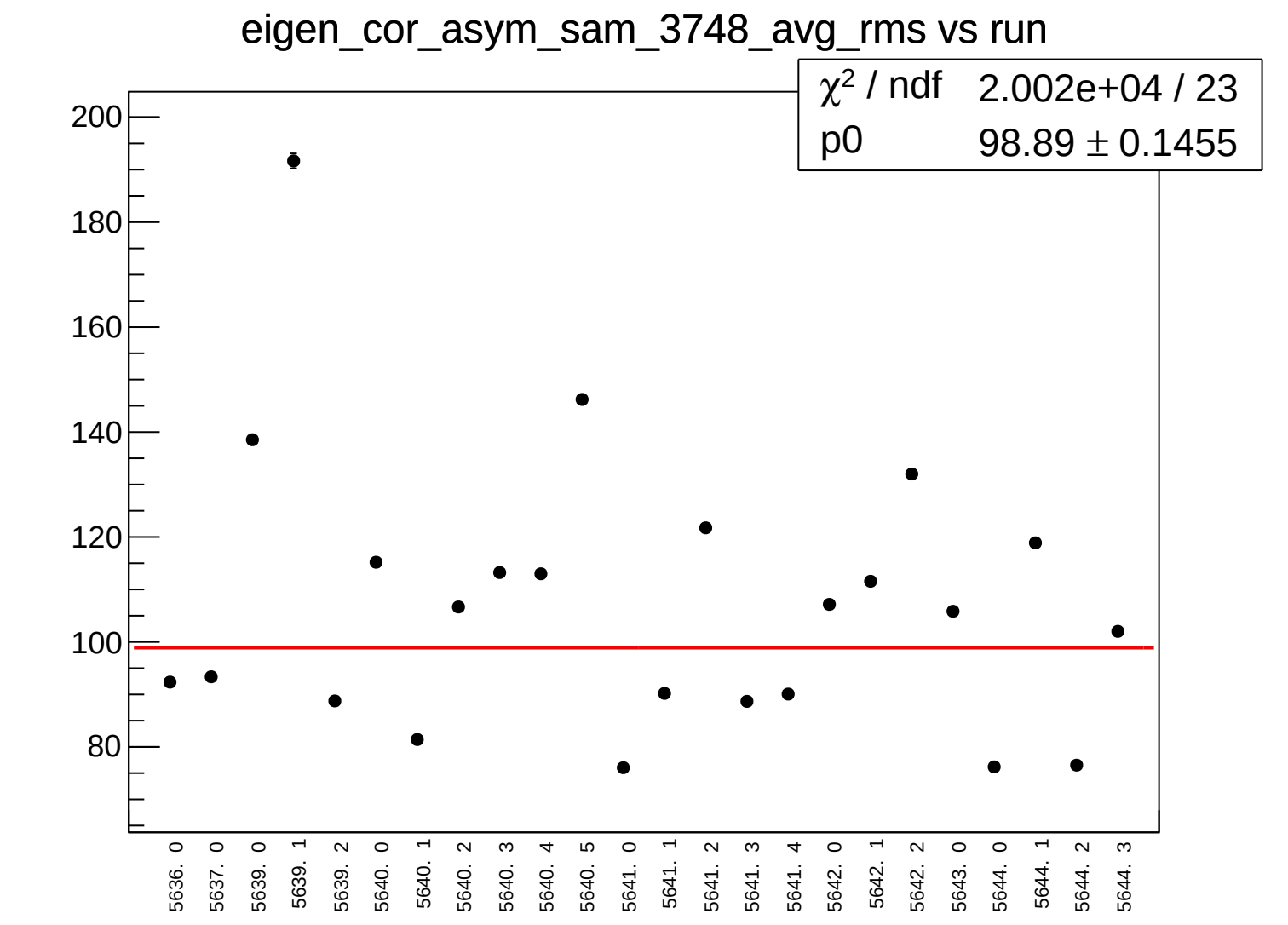

pull1D
Entries 24
Mean −0.03566
Std Dev 0.8303
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

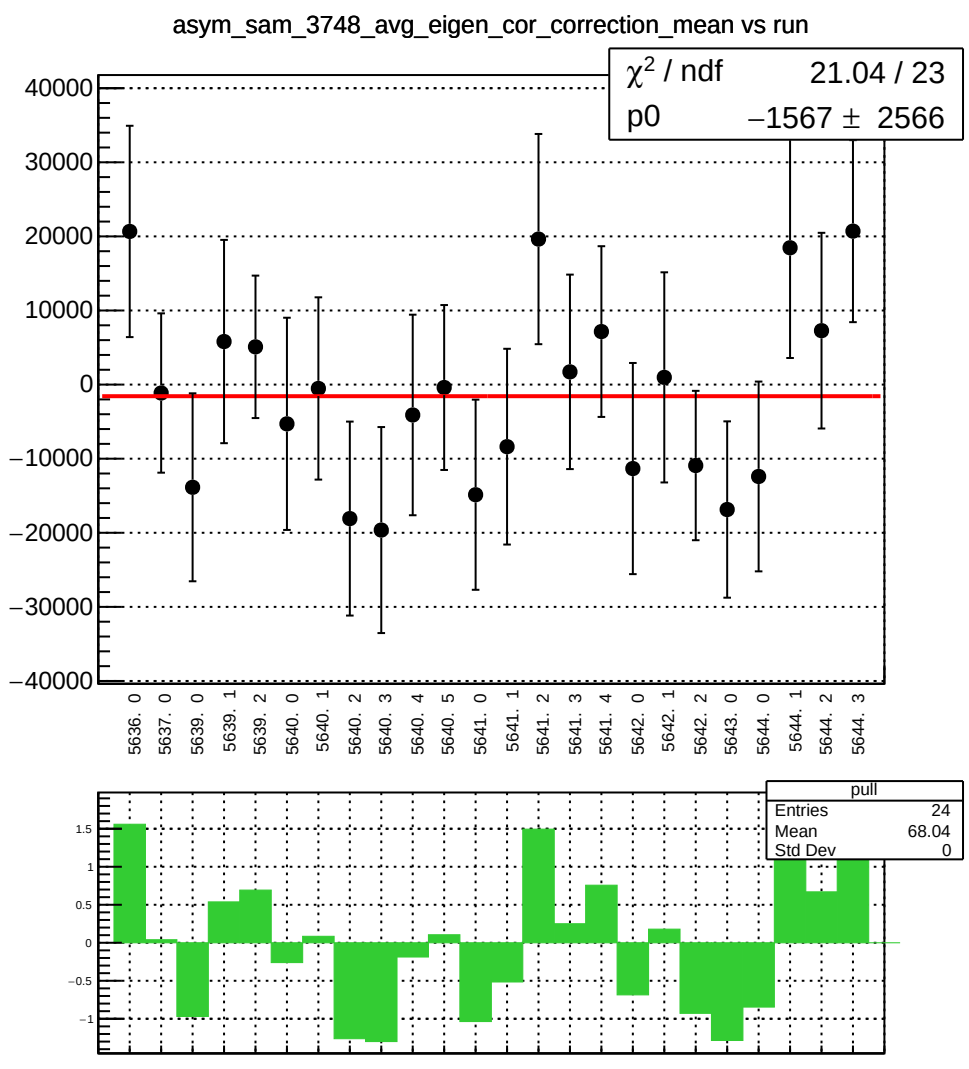

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 2.002e+04 / 23
p0 98.89 ± 0.1455
200
180
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

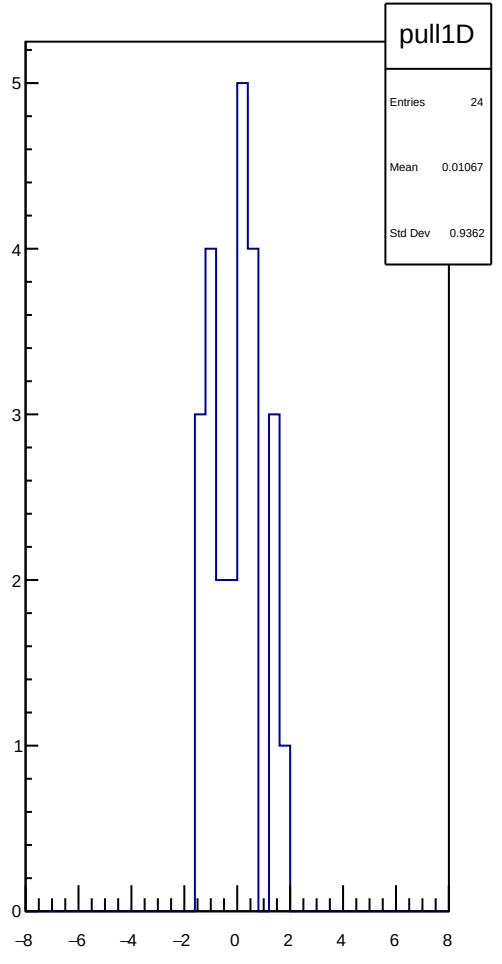

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 21.04 / 23
p0 −1567 ± 2566
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 68.04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.01067
Std Dev 0.9362
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

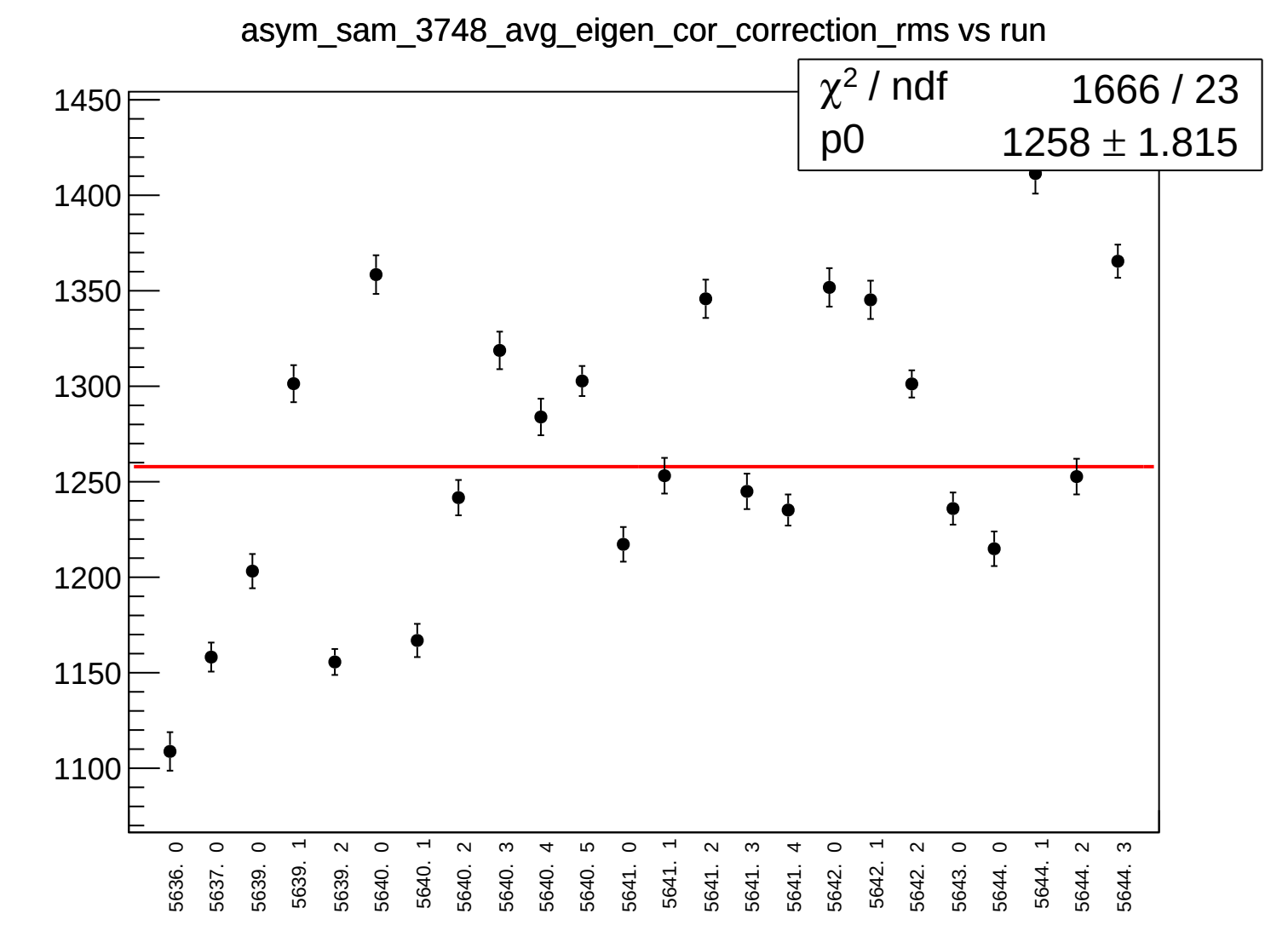

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 1666 / 23
p0 1258 ± 1.815
1450
1400
1350
1300
1250
1200
1150
1100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

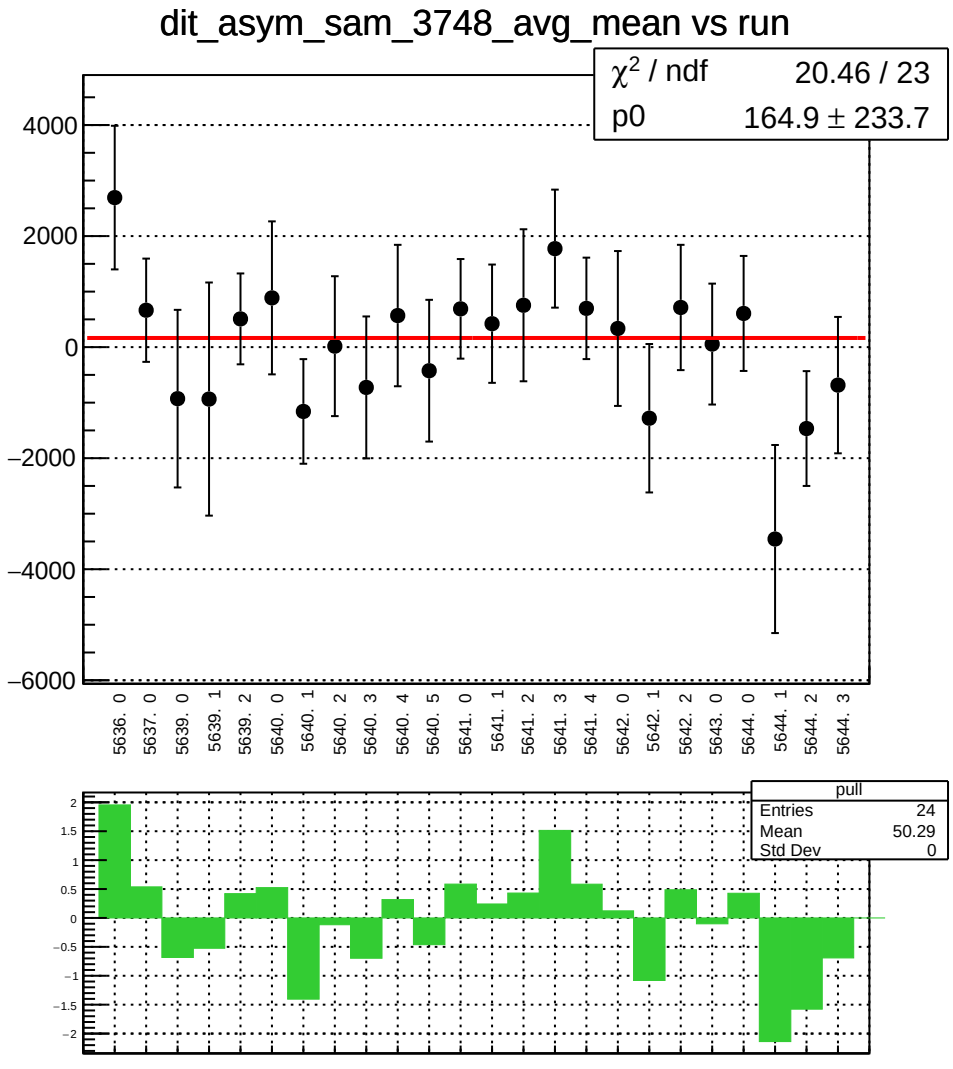

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 16.58 / 23
p0 36.24 ± 205.7
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 52.92
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.03566
Std Dev 0.8303
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

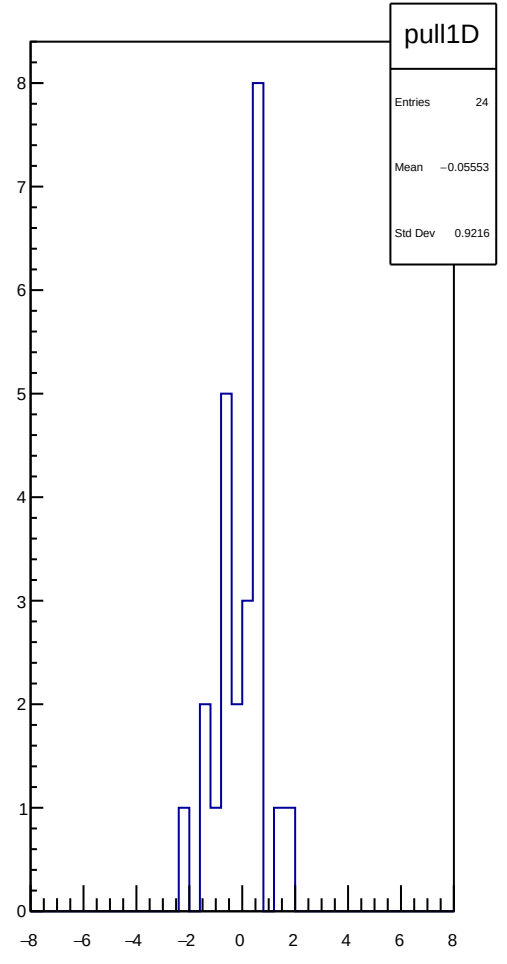

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 2.002e+04 / 23
p0 98.89 ± 0.1455
200
180
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

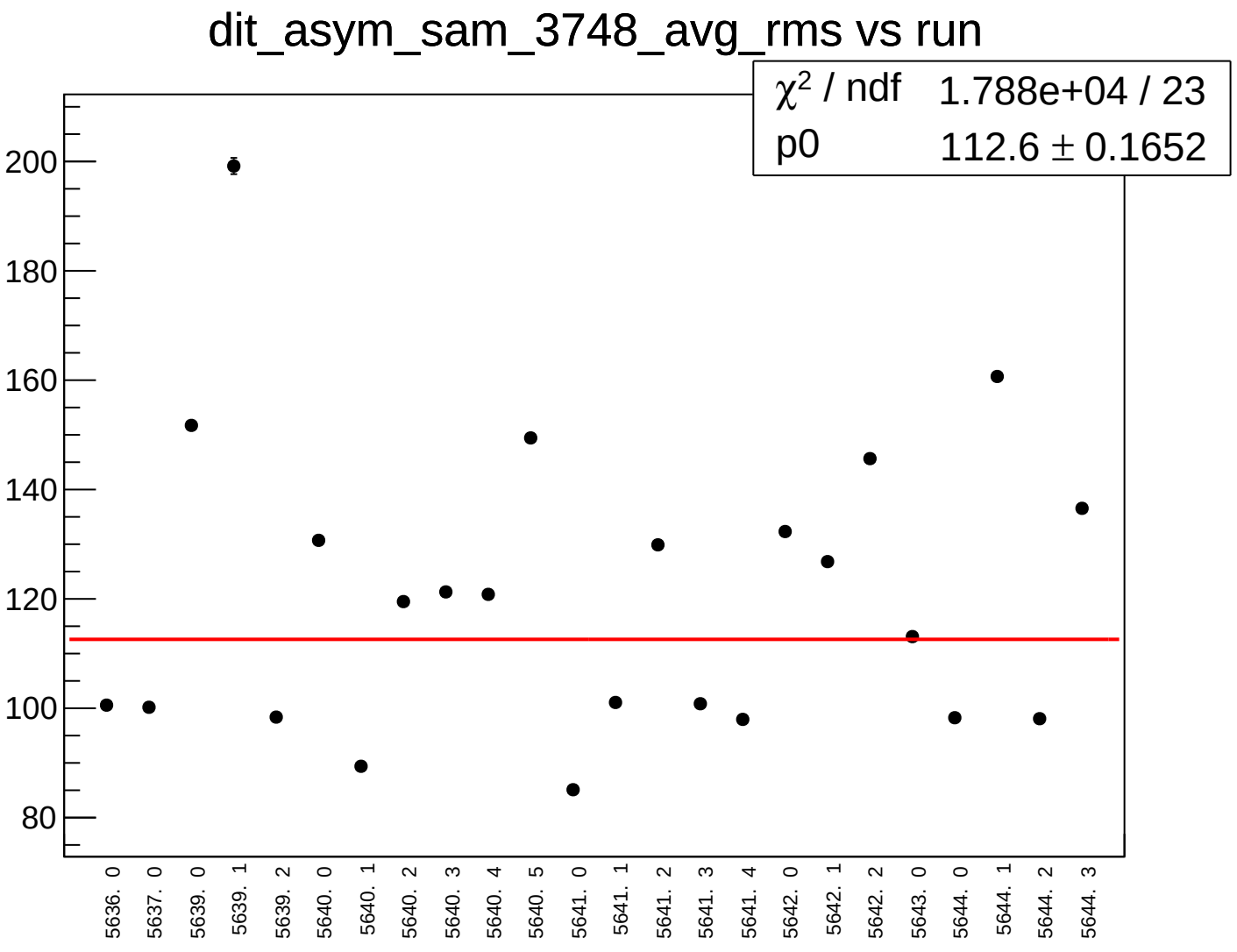

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 21.04 / 23
p0 −1567 ± 2566
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 68.04
Std Dev 0
1.5
1
0.5
0
−0.5
−1

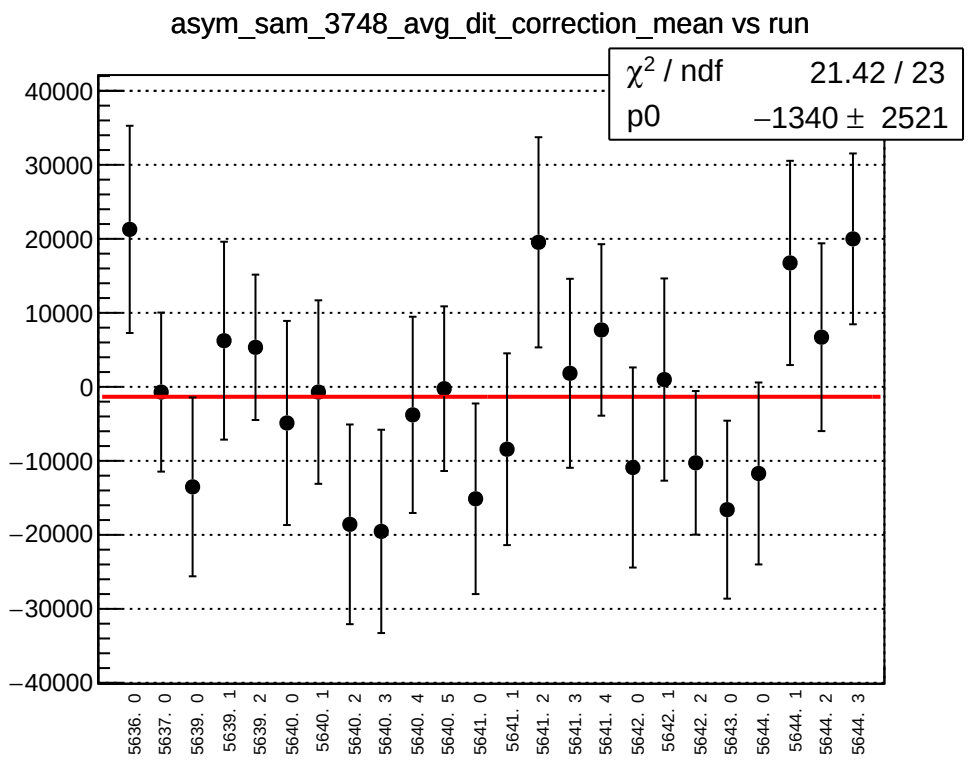

pull1D
Entries 24
Mean 0.01067
Std Dev 0.9362
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

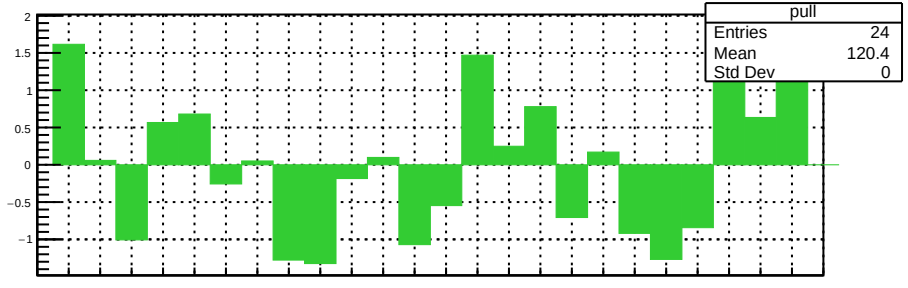

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 1666 / 23
p0 1258 ± 1.815
1450
1400
1350
1300
1250
1200
1150
1100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

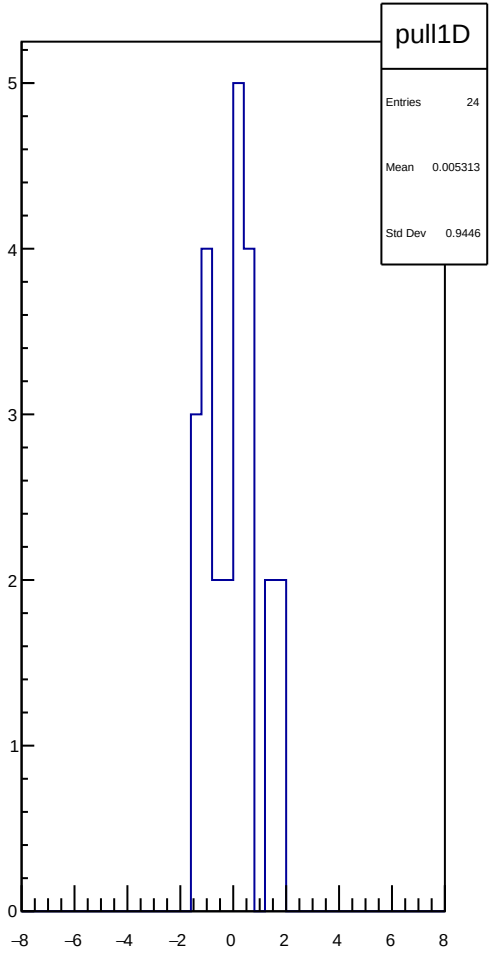

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 20.46 / 23
p0 164.9 ± 233.7
4000
2000
0
−2000
−4000
−6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 50.29
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

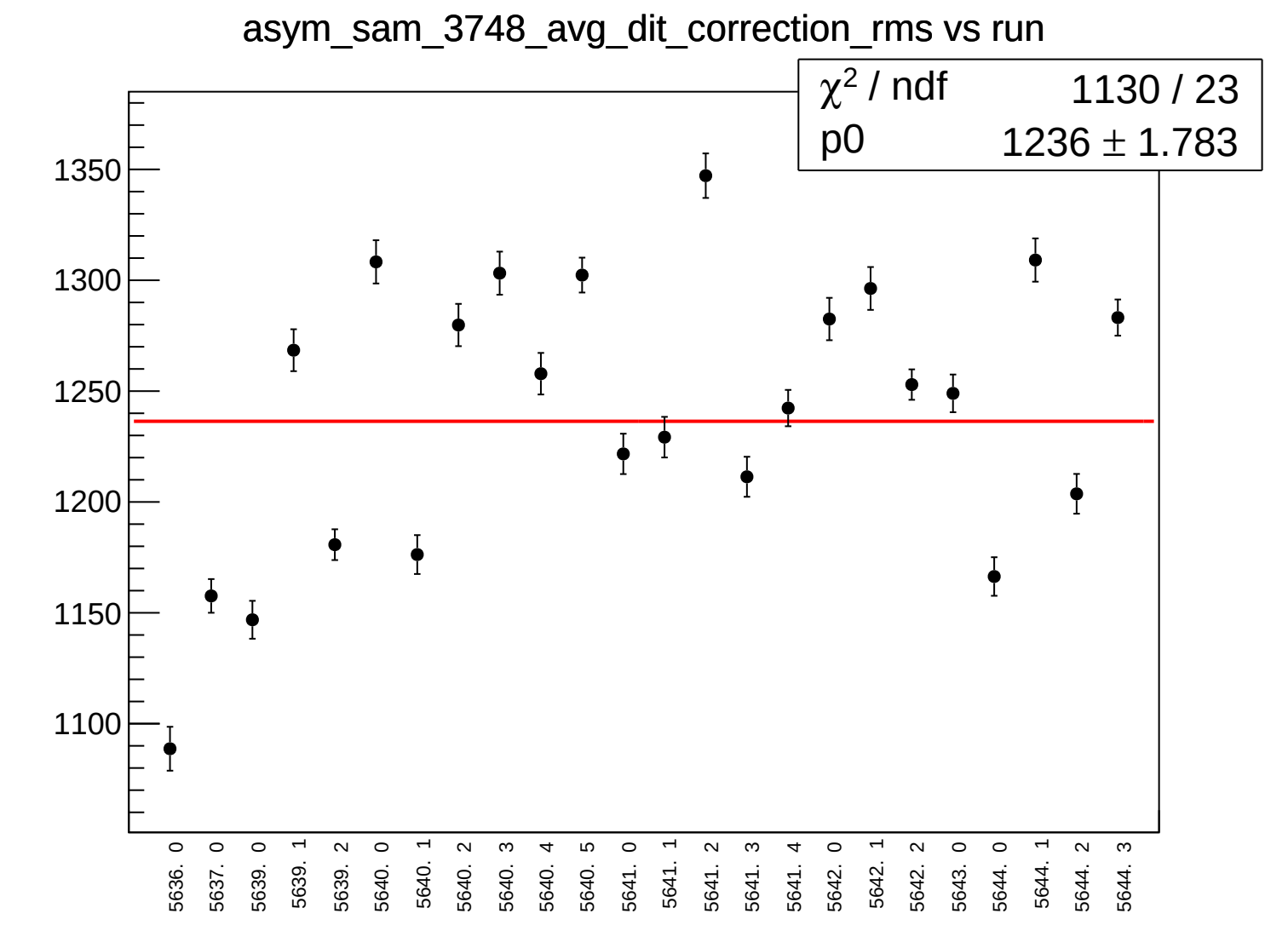

pull1D
Entries 24
Mean −0.05553
Std Dev 0.9216
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

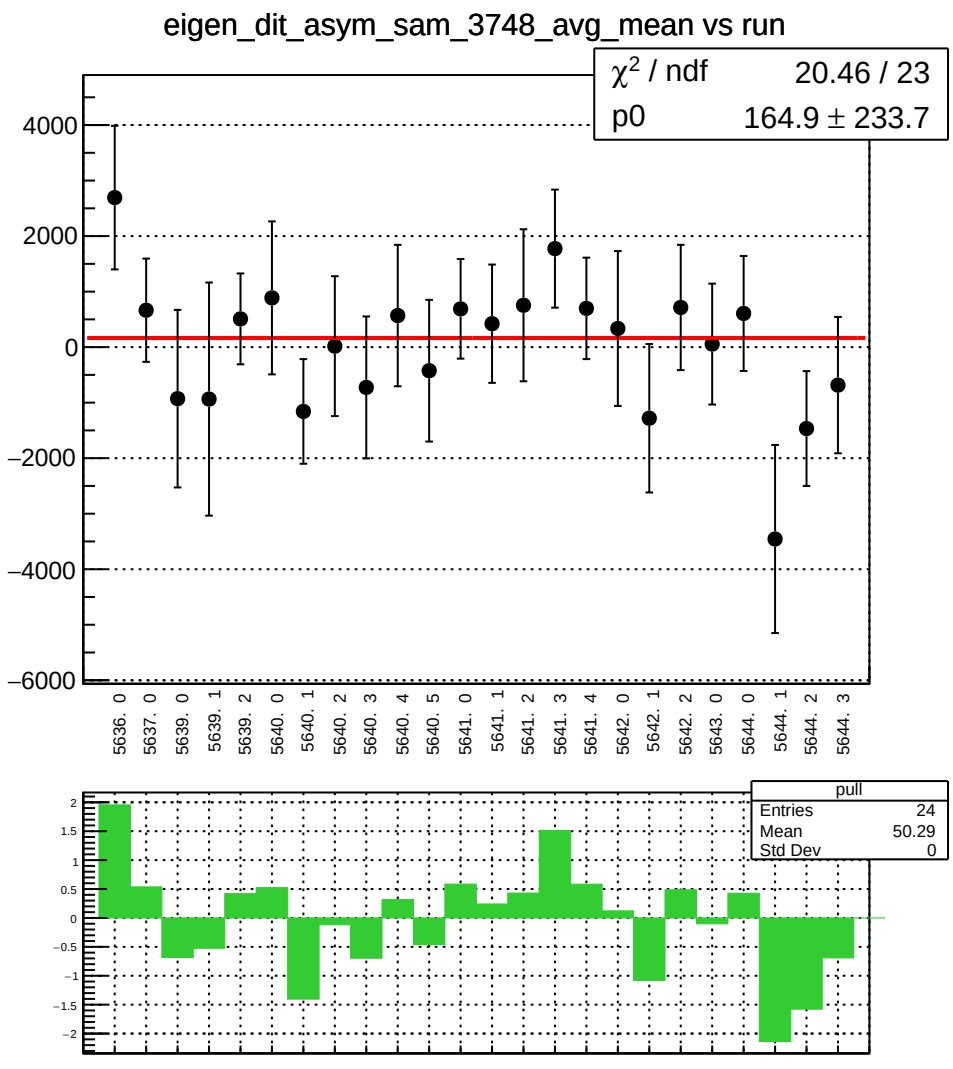

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.788e+04 / 23
p0 112.6 ± 0.1652
200
180
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

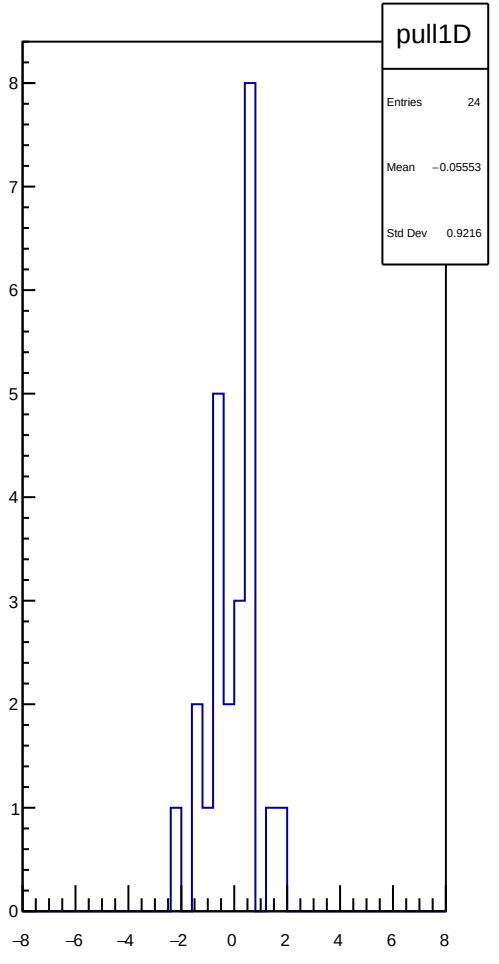

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 21.42 / 23
p0 −1340 ± 2521
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

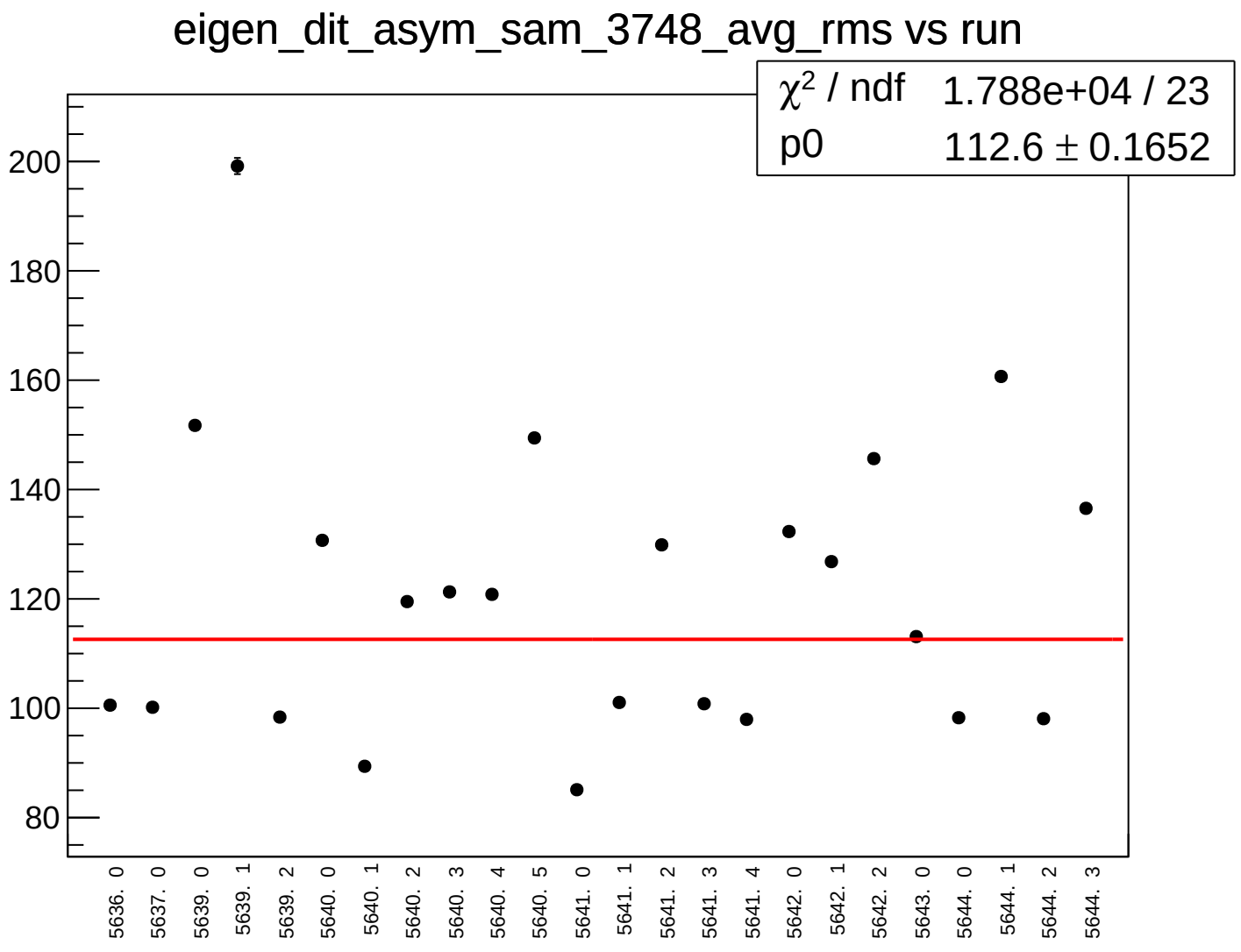

pull
Entries 24
Mean 120.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 24
Mean 0.005313
Std Dev 0.9446
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 1130 / 23
p0 1236 ± 1.783
1350
1300
1250
1200
1150
1100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 20.46 / 23
p0 164.9 ± 233.7
4000
2000
0
−2000
−4000
−6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 50.29
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.05553
Std Dev 0.9216
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.788e+04 / 23
p0 112.6 ± 0.1652
200
180
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
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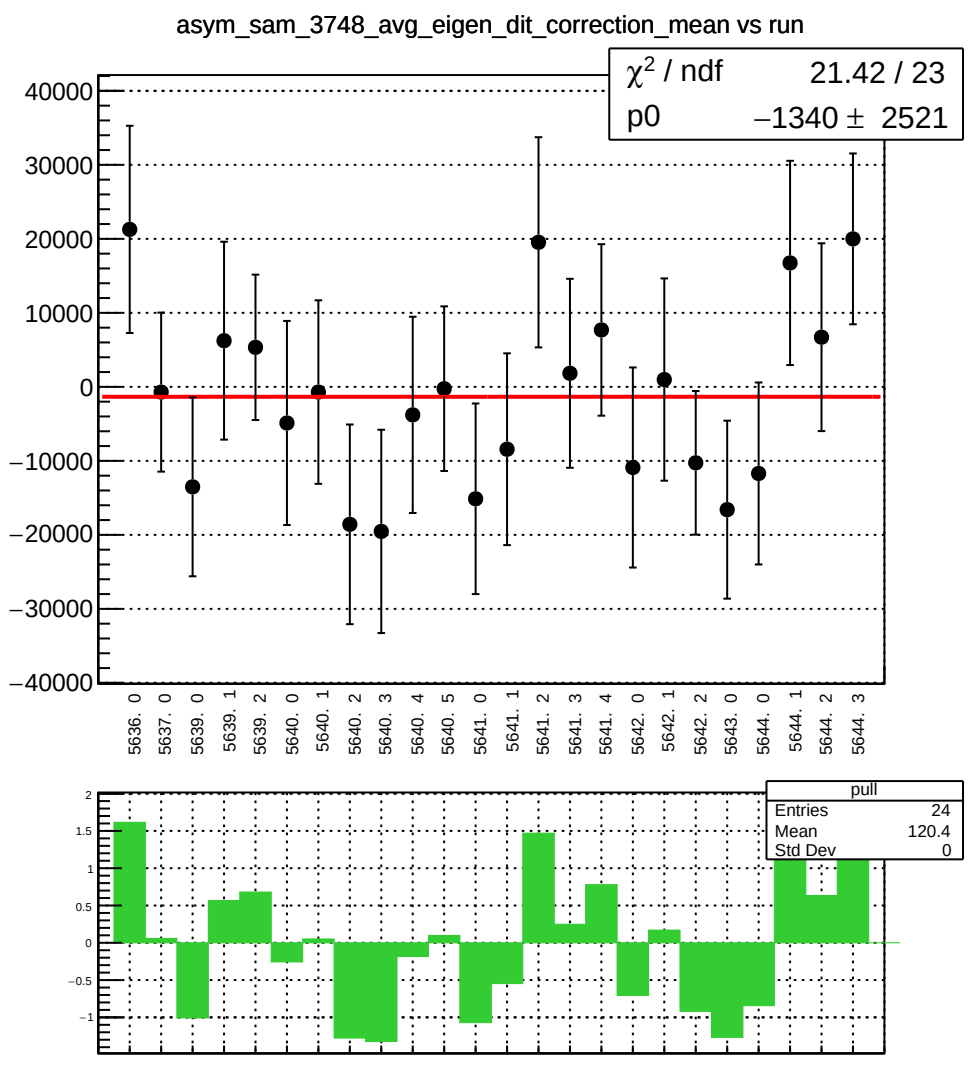
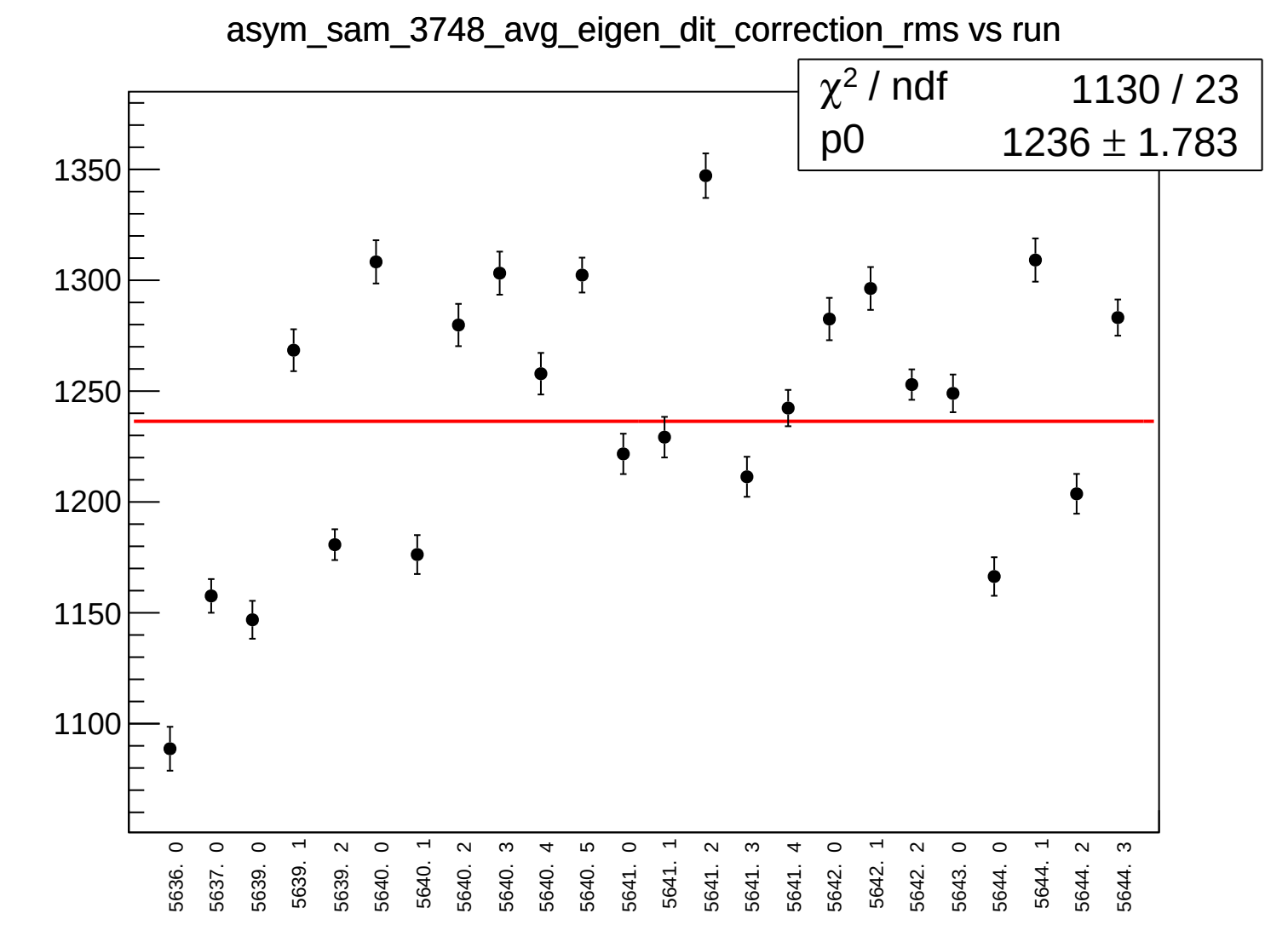
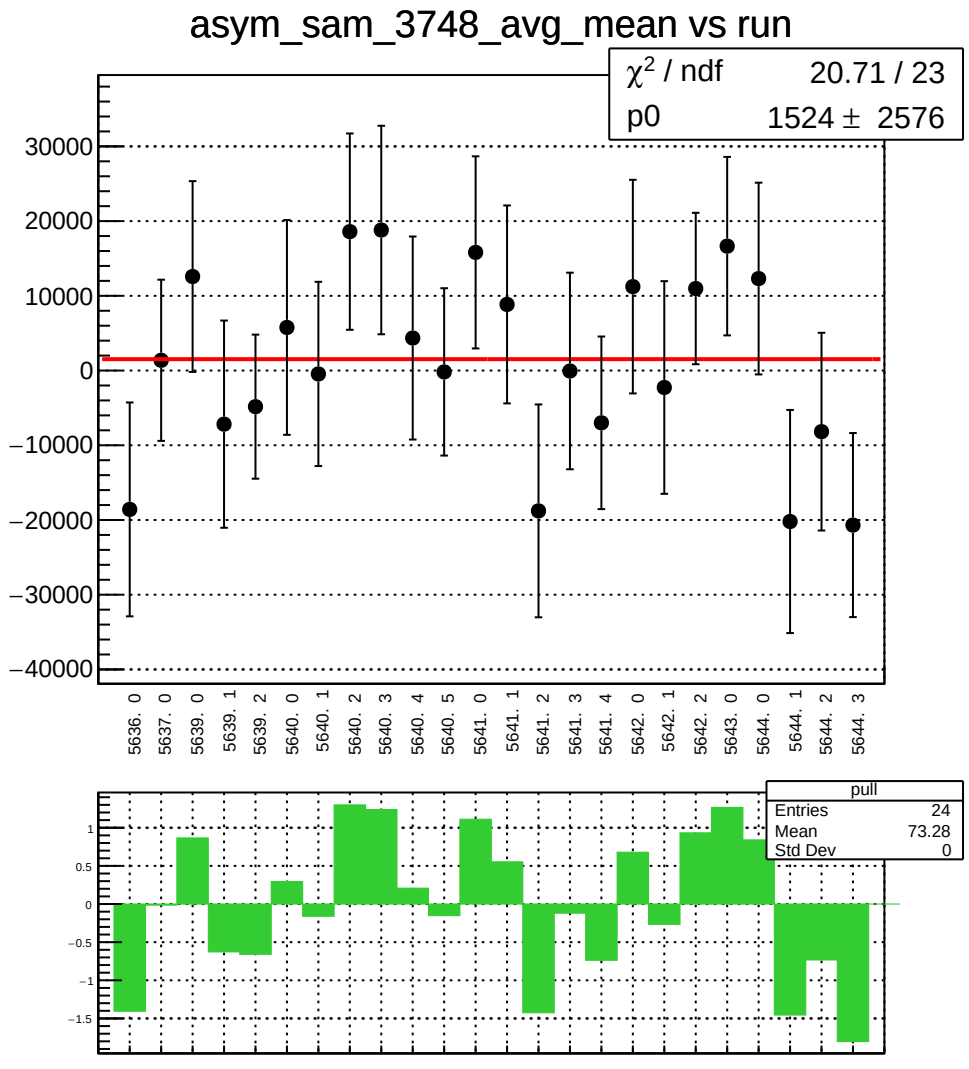
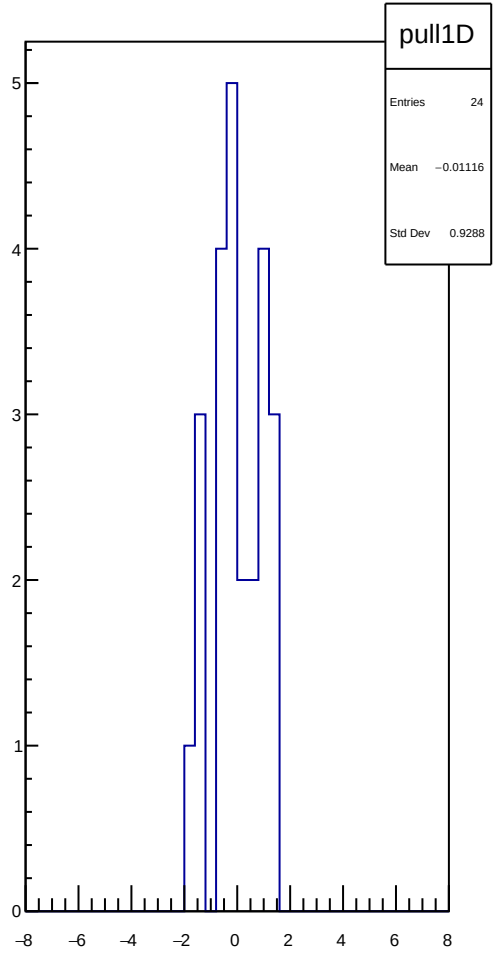
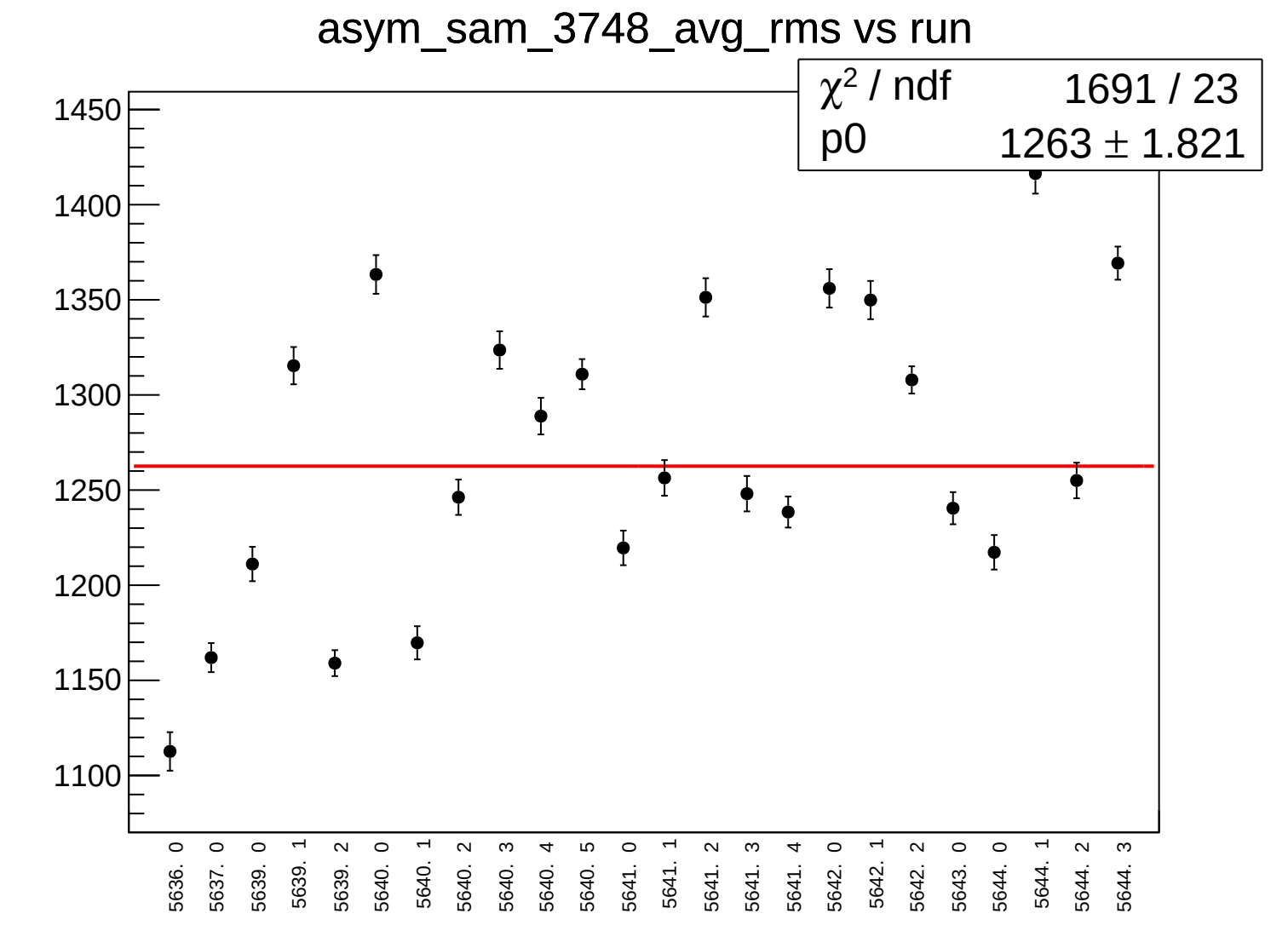
5644. 2
5644. 3

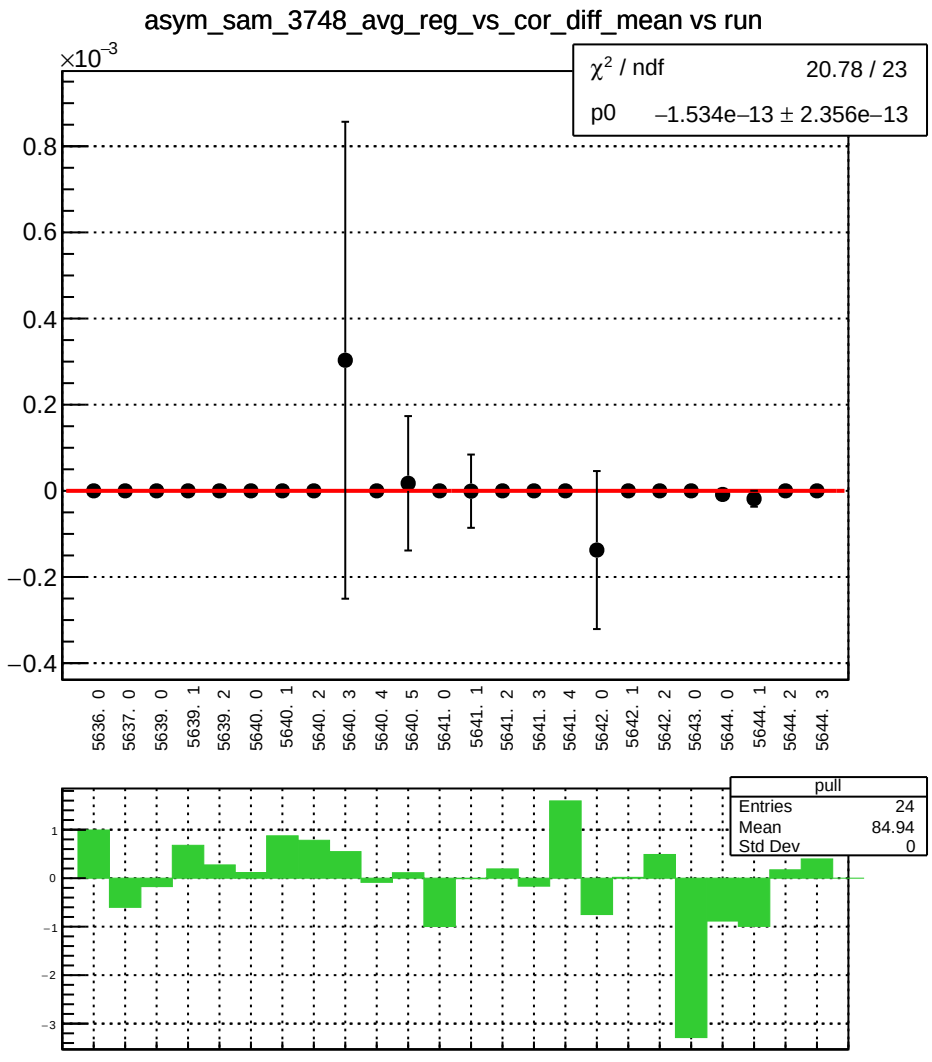

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 21.42 / 23
p0 −1340 ± 2521
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 120.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.005313
Std Dev 0.9446
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

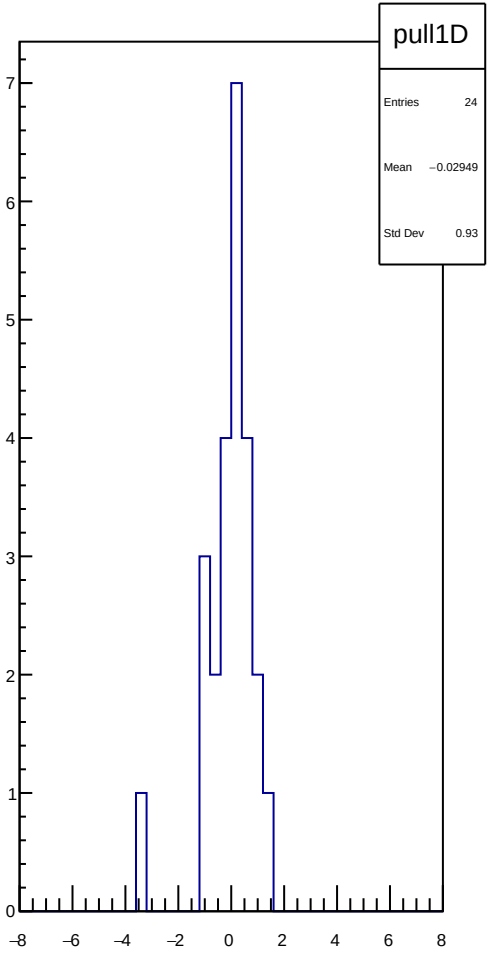

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 1130 / 23
p0 1236 ± 1.783
1350
1300
1250
1200
1150
1100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

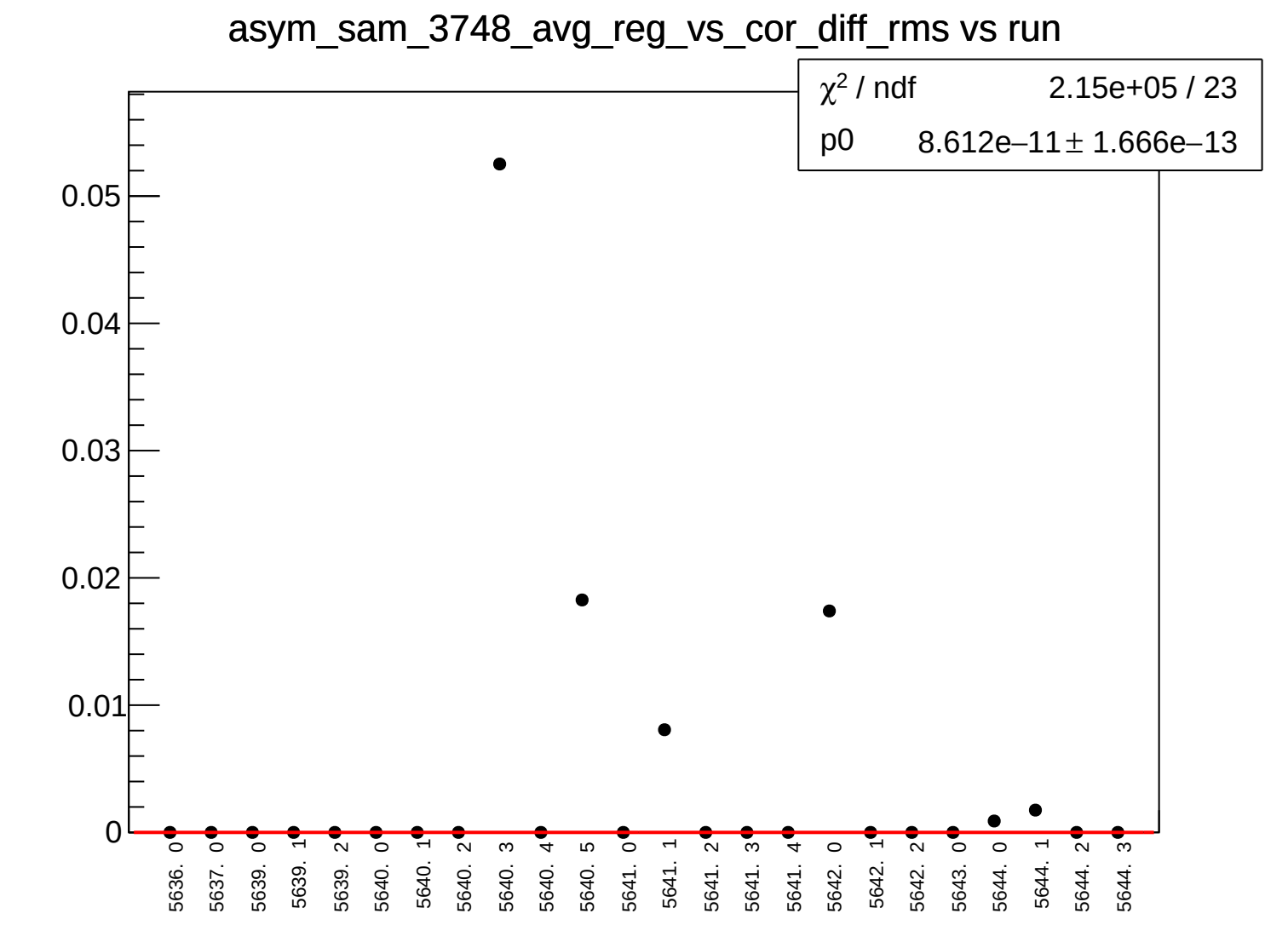

asym_sam_3748_avg_mean vs run
χ² / ndf 20.71 / 23
p0 1524 ± 2576
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 73.28
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

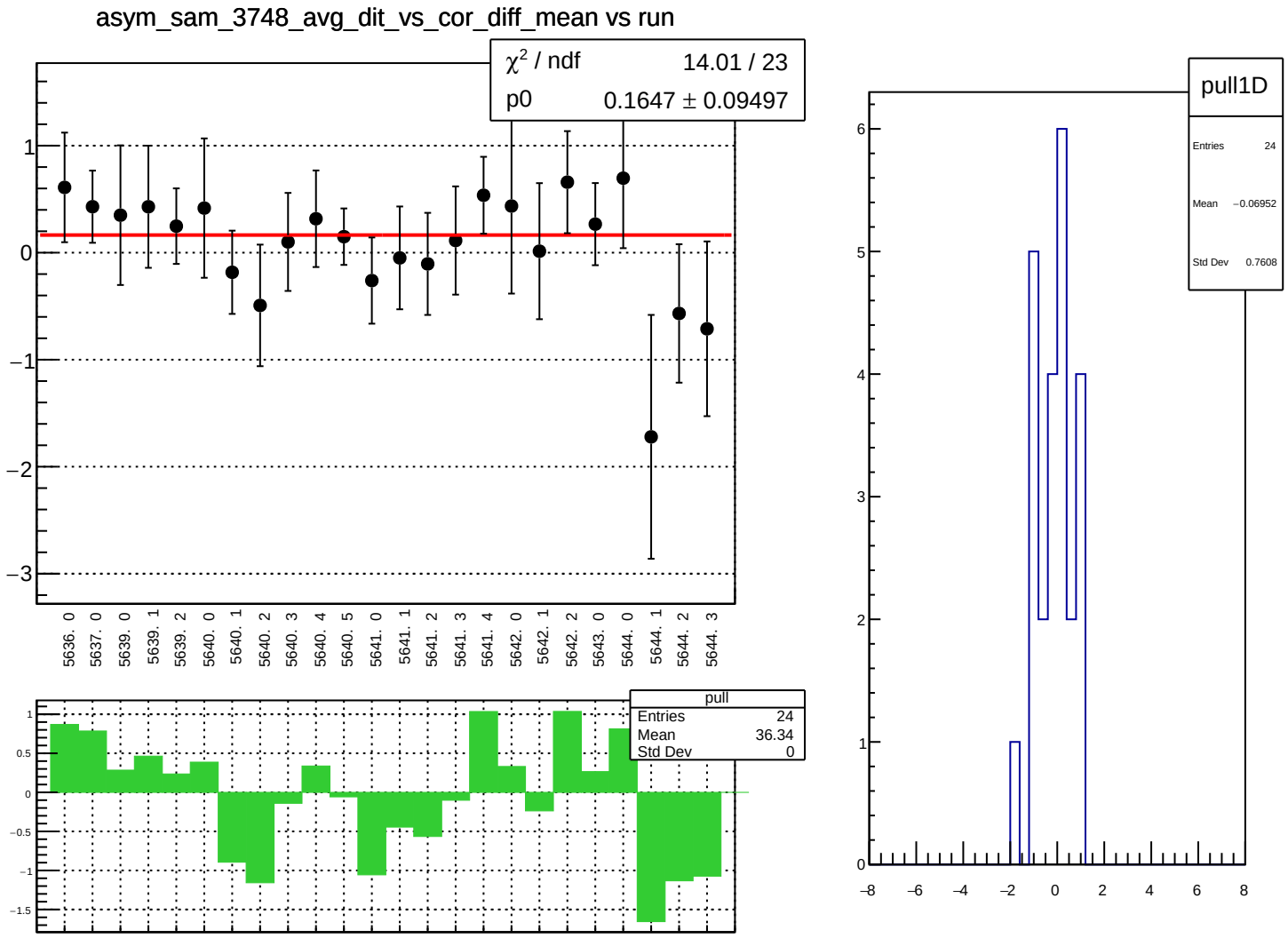

pull1D
Entries 24
Mean −0.01116
Std Dev 0.9288
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

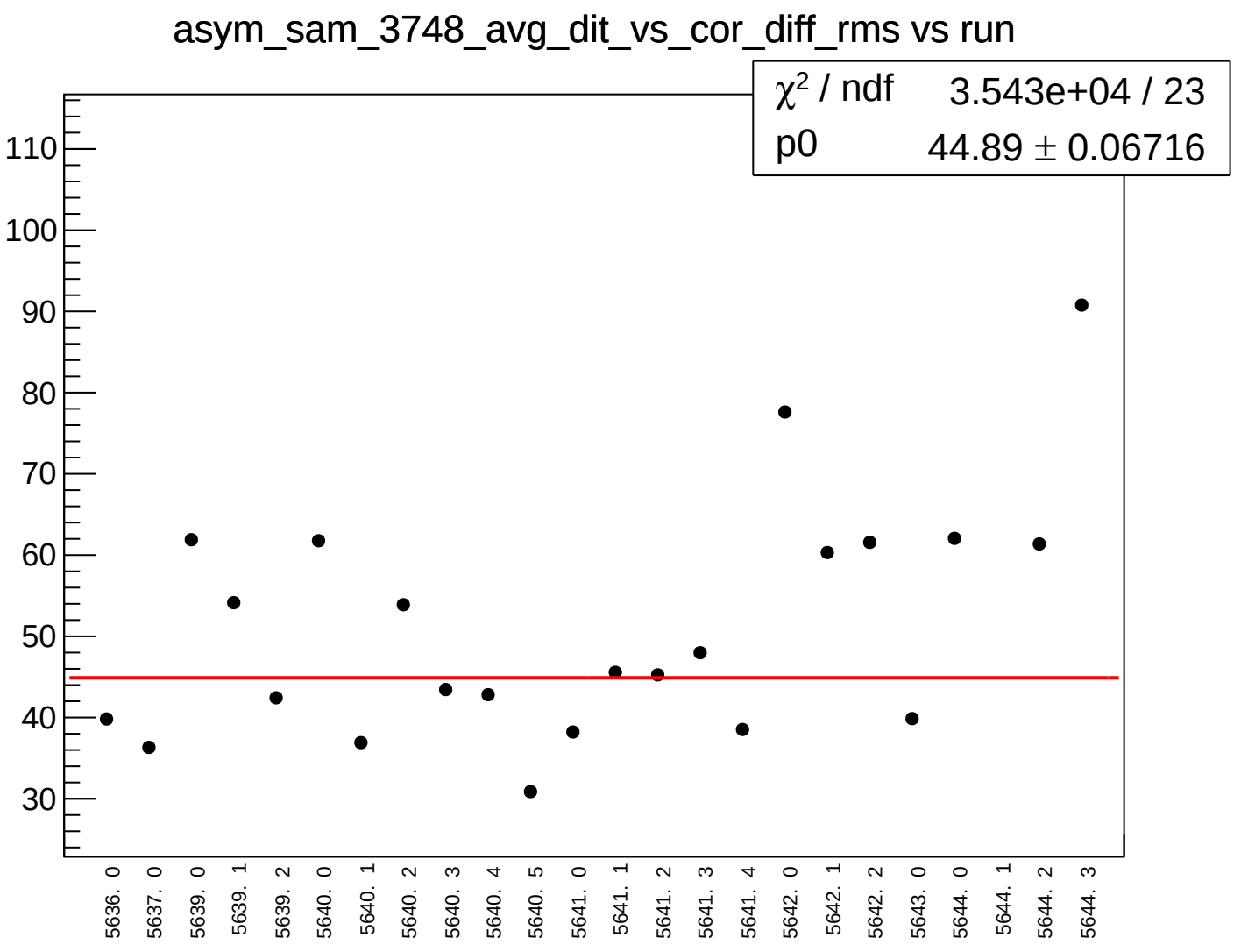

asym_sam_3748_avg_rms vs run
χ² / ndf 1691 / 23
p0 1263 ± 1.821
1450
1400
1350
1300
1250
1200
1150
1100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

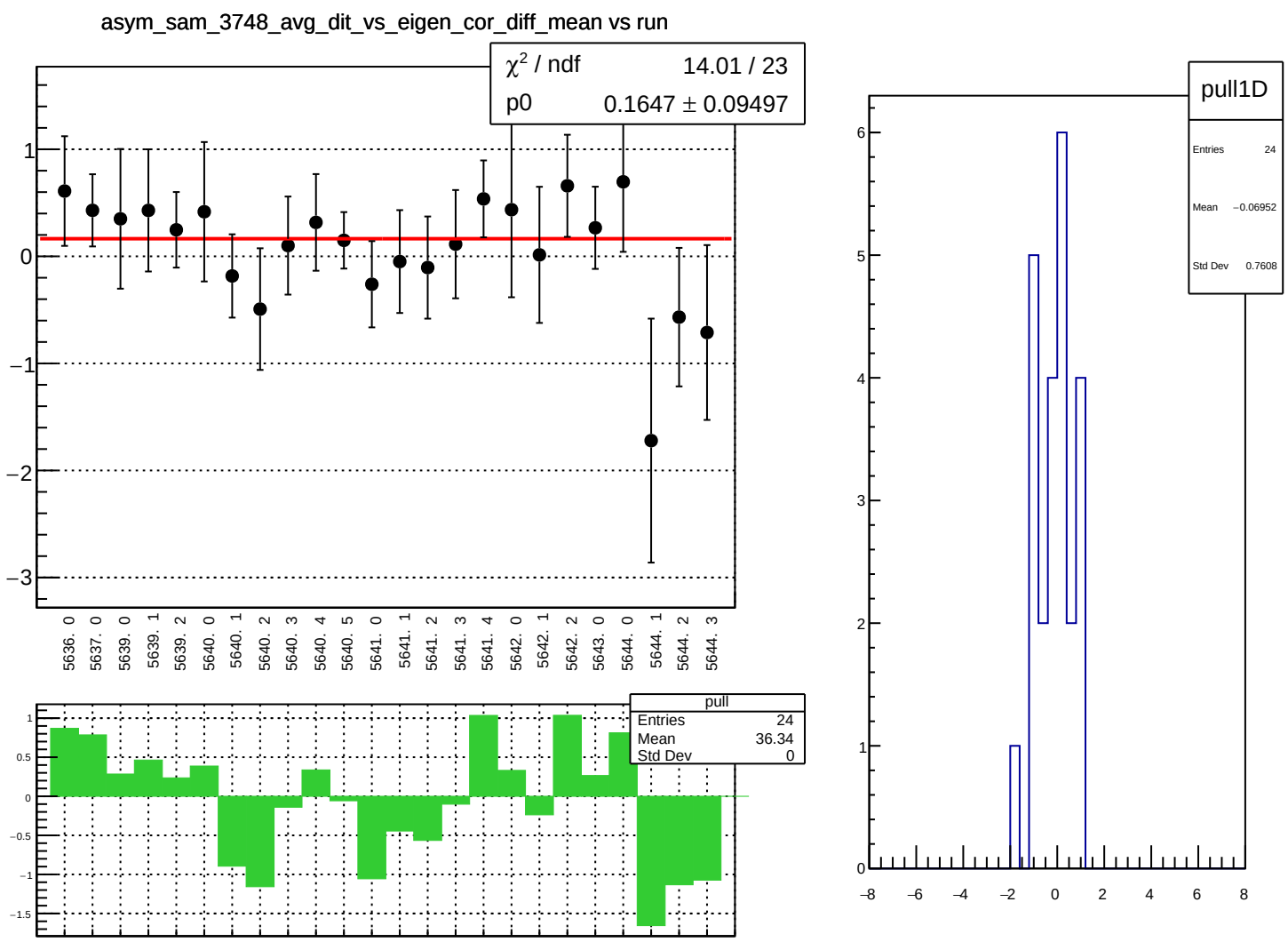

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 20.78 / 23
p0 −1.534e−13 ± 2.356e−13
0.8
0.6
0.4
0.2
0
−0.2
−0.4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 84.94
Std Dev 0
1
0
−1
−2
−3

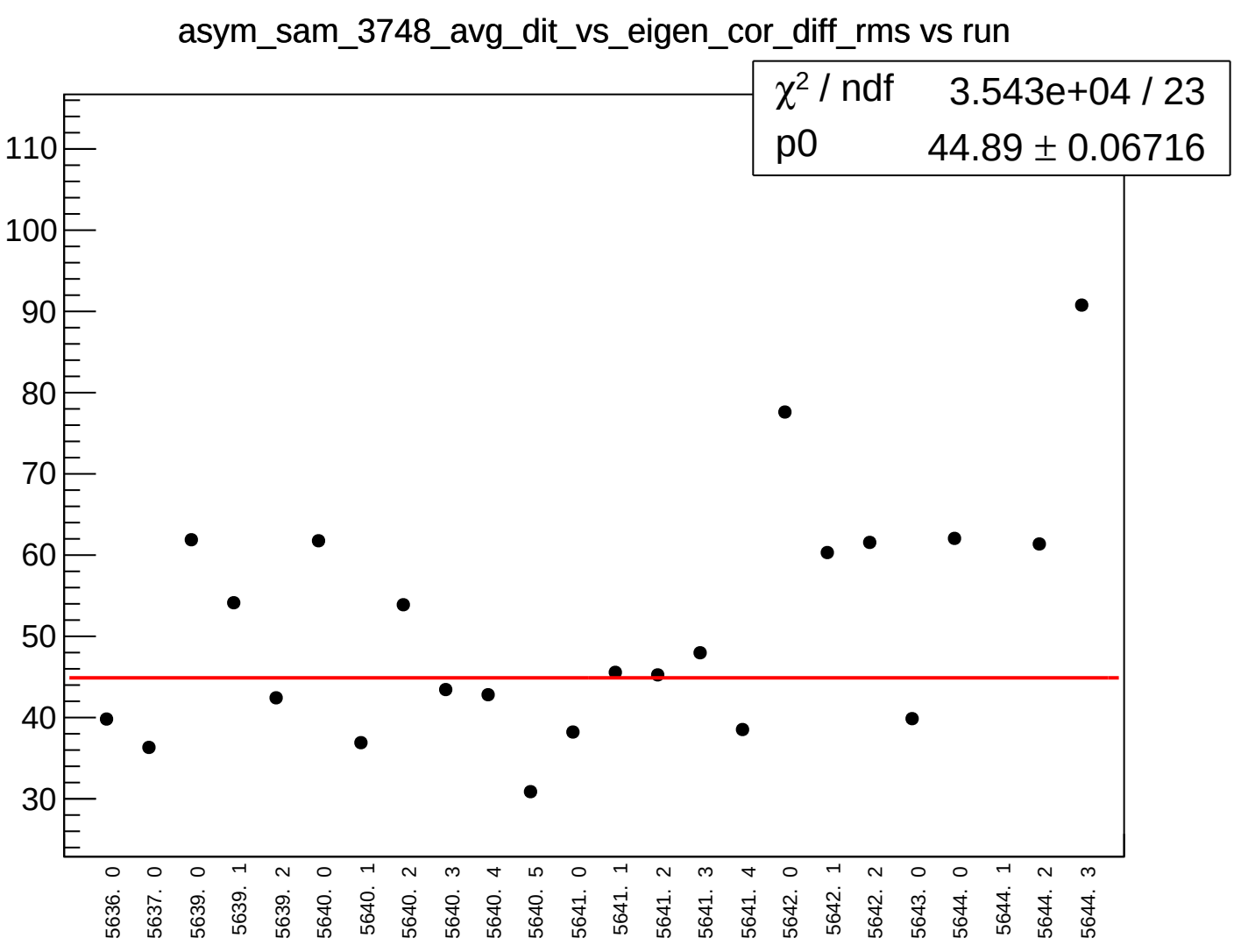

pull1D
Entries 24
Mean −0.02949
Std Dev 0.93
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

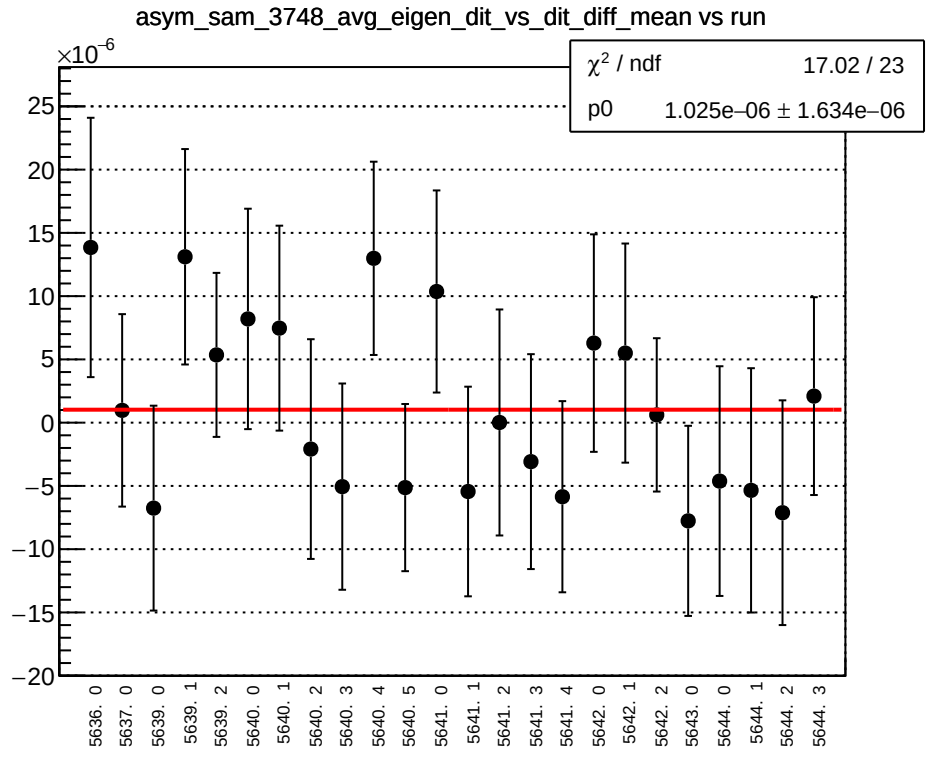

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.15e+05 / 23
p0 8.612e−11 ± 1.666e−13
0.05
0.04
0.03
0.02
0.01
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

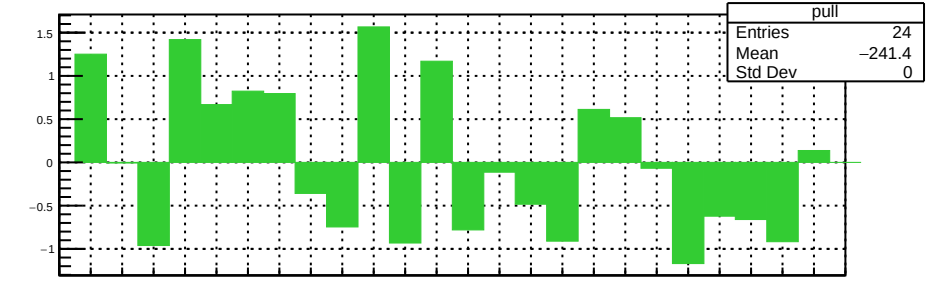

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 14.01 / 23
p0 0.1647 ± 0.09497
1
0
−1
−2
−3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 36.34
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.06952
Std Dev 0.7608
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

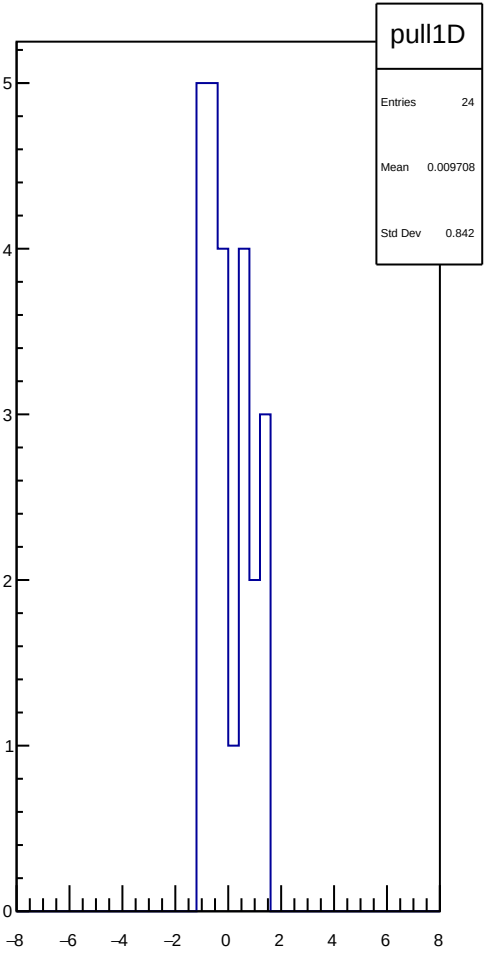

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.543e+04 / 23
p0 44.89 ± 0.06716
110
100
90
80
70
60
50
40
30
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

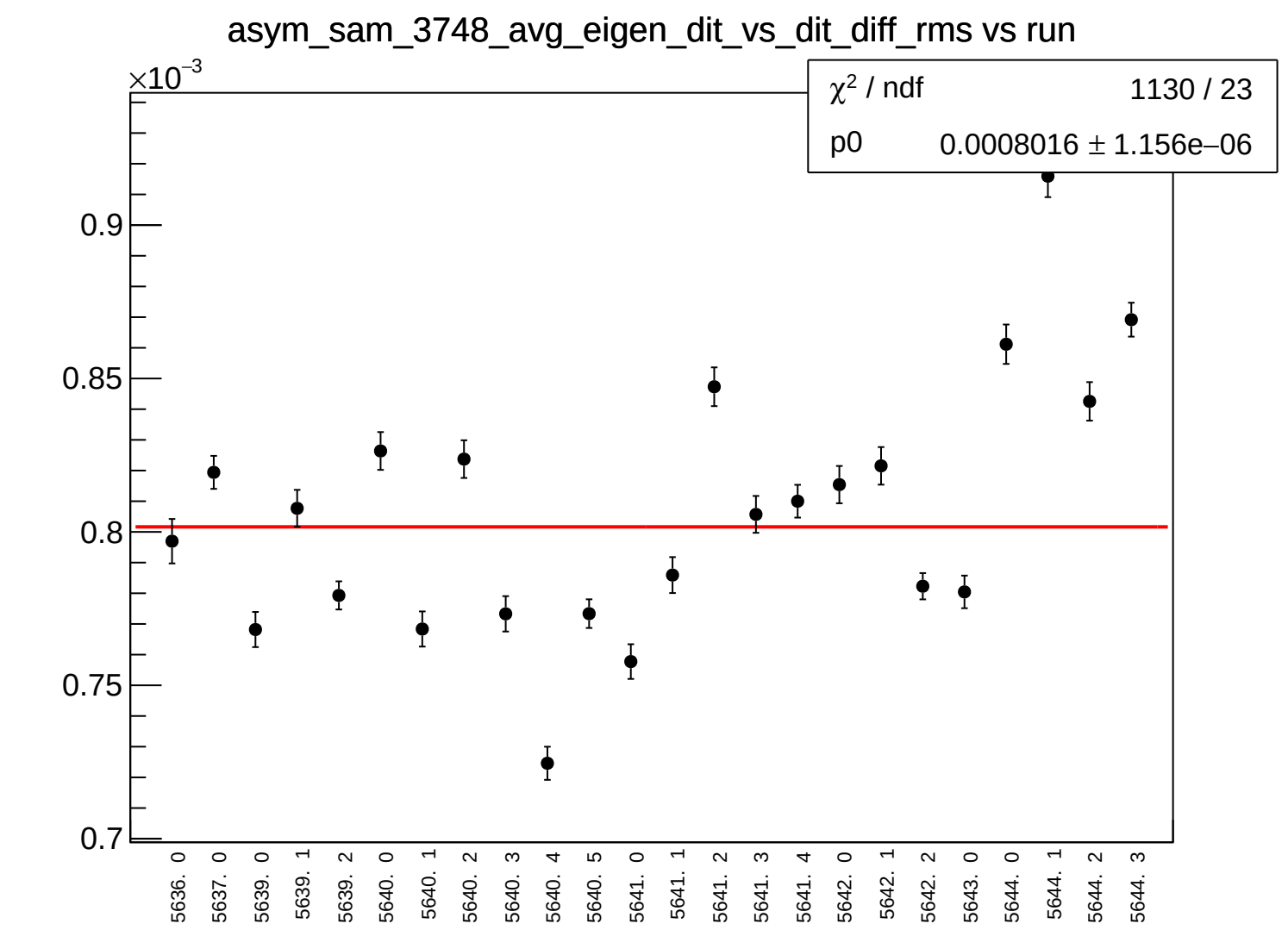

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 14.01 / 23
p0 0.1647 ± 0.09497
1
0
−1
−2
−3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 36.34
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.06952
Std Dev 0.7608
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

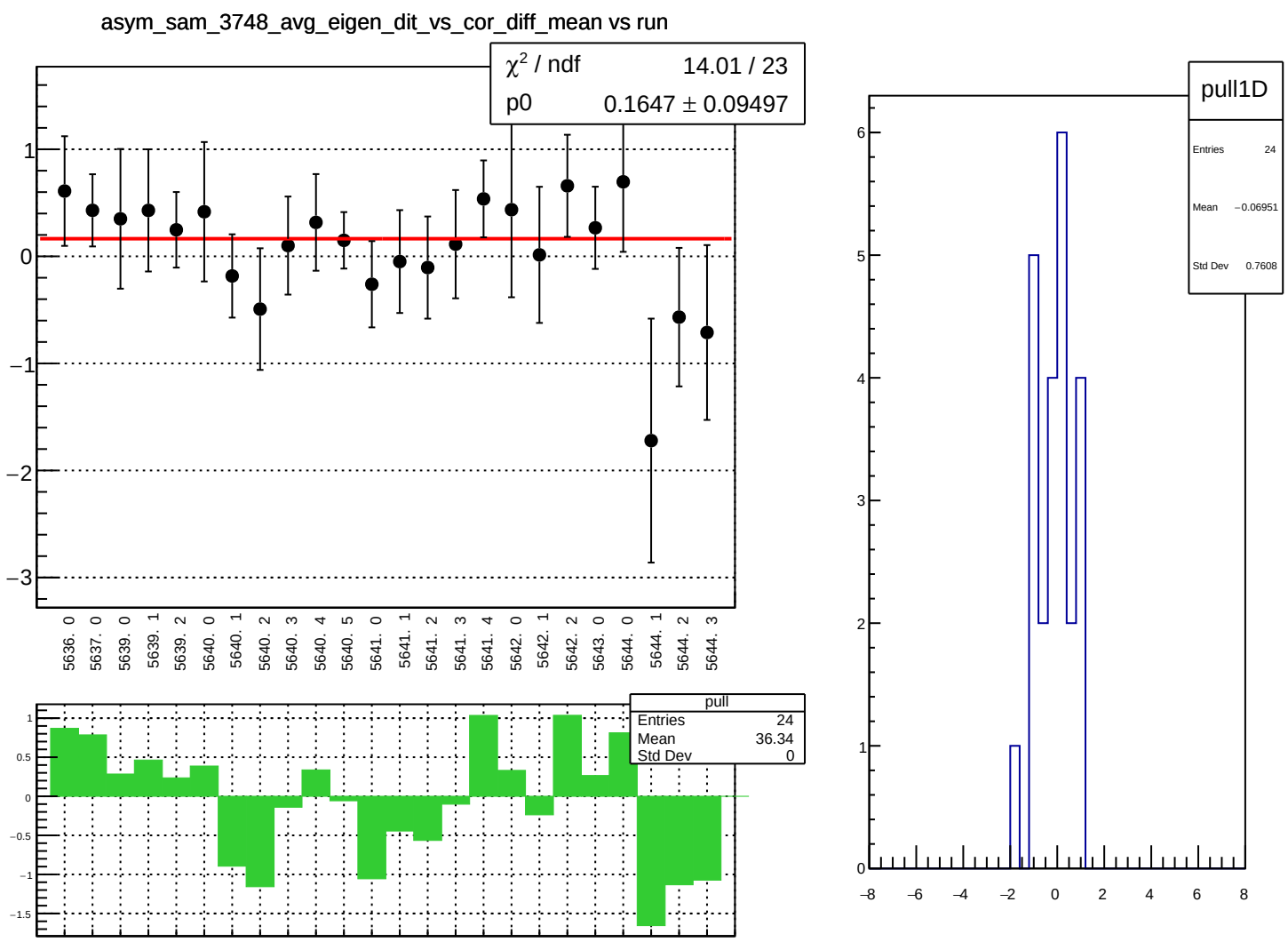

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.543e+04 / 23
p0 44.89 ± 0.06716
110
100
90
80
70
60
50
40
30
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

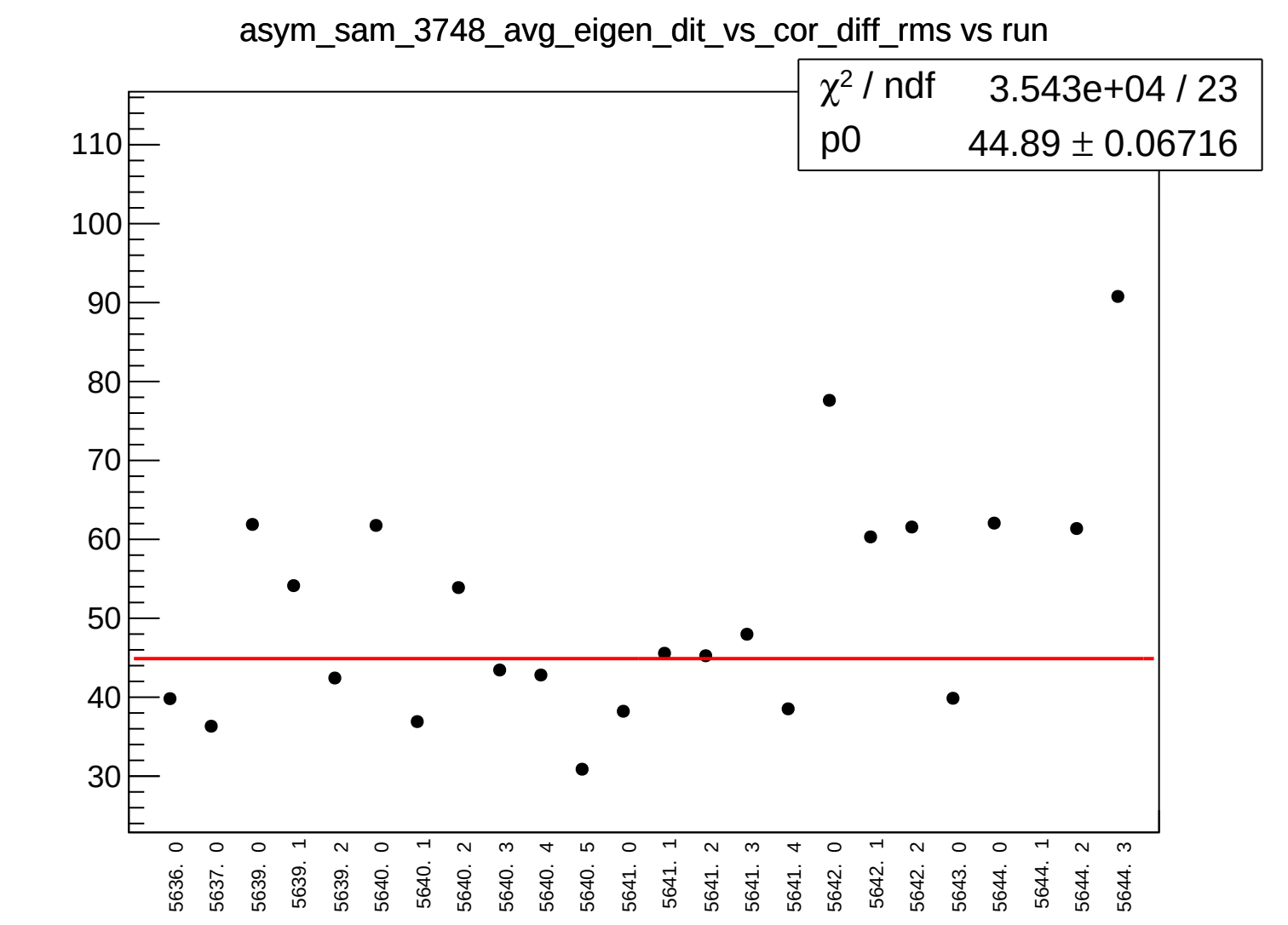

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 17.02 / 23
p0 1.025e−06 ± 1.634e−06
25
20
15
10
5
0
−5
−10
−15
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

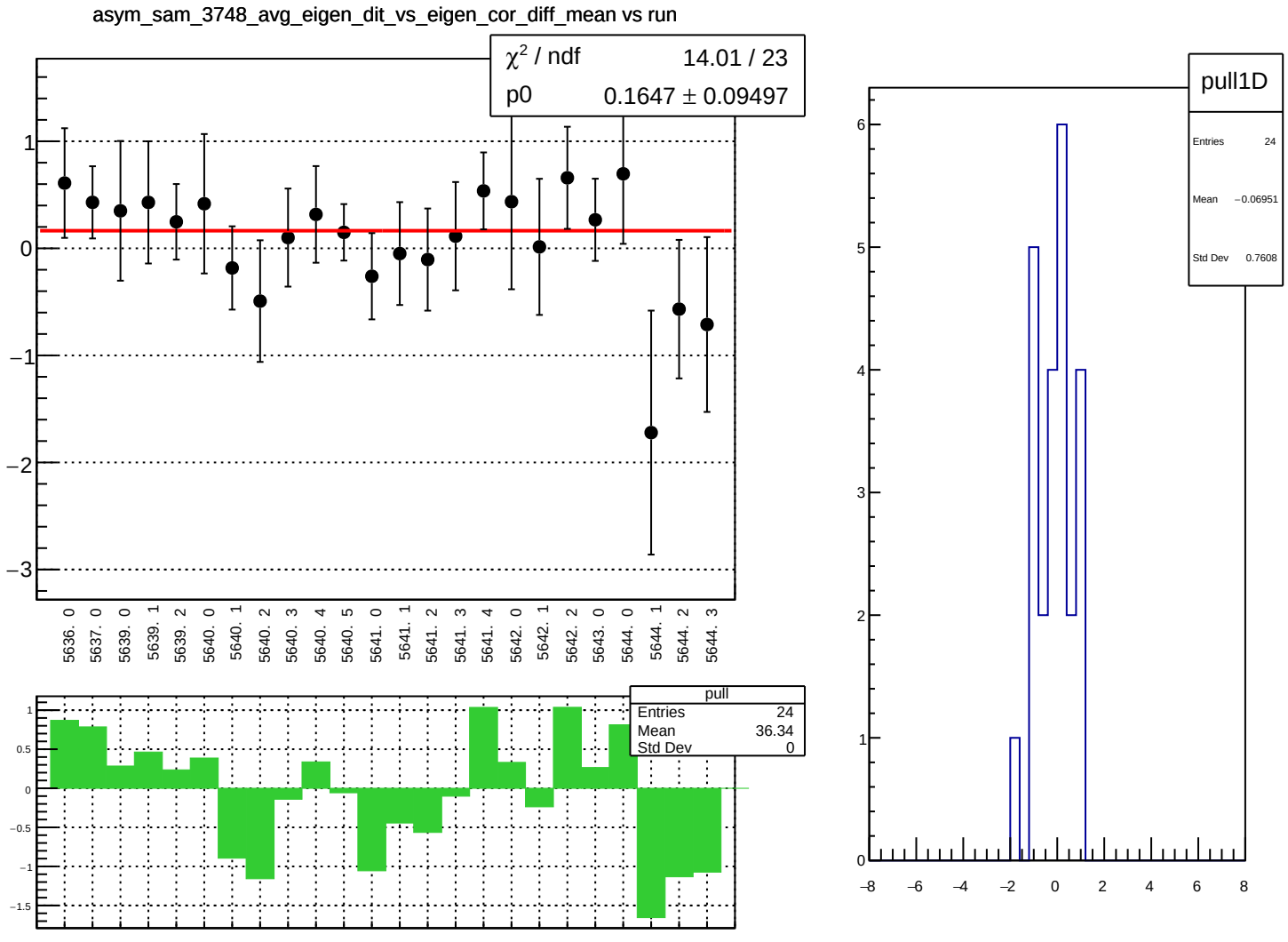

pull
Entries 24
Mean −241.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1

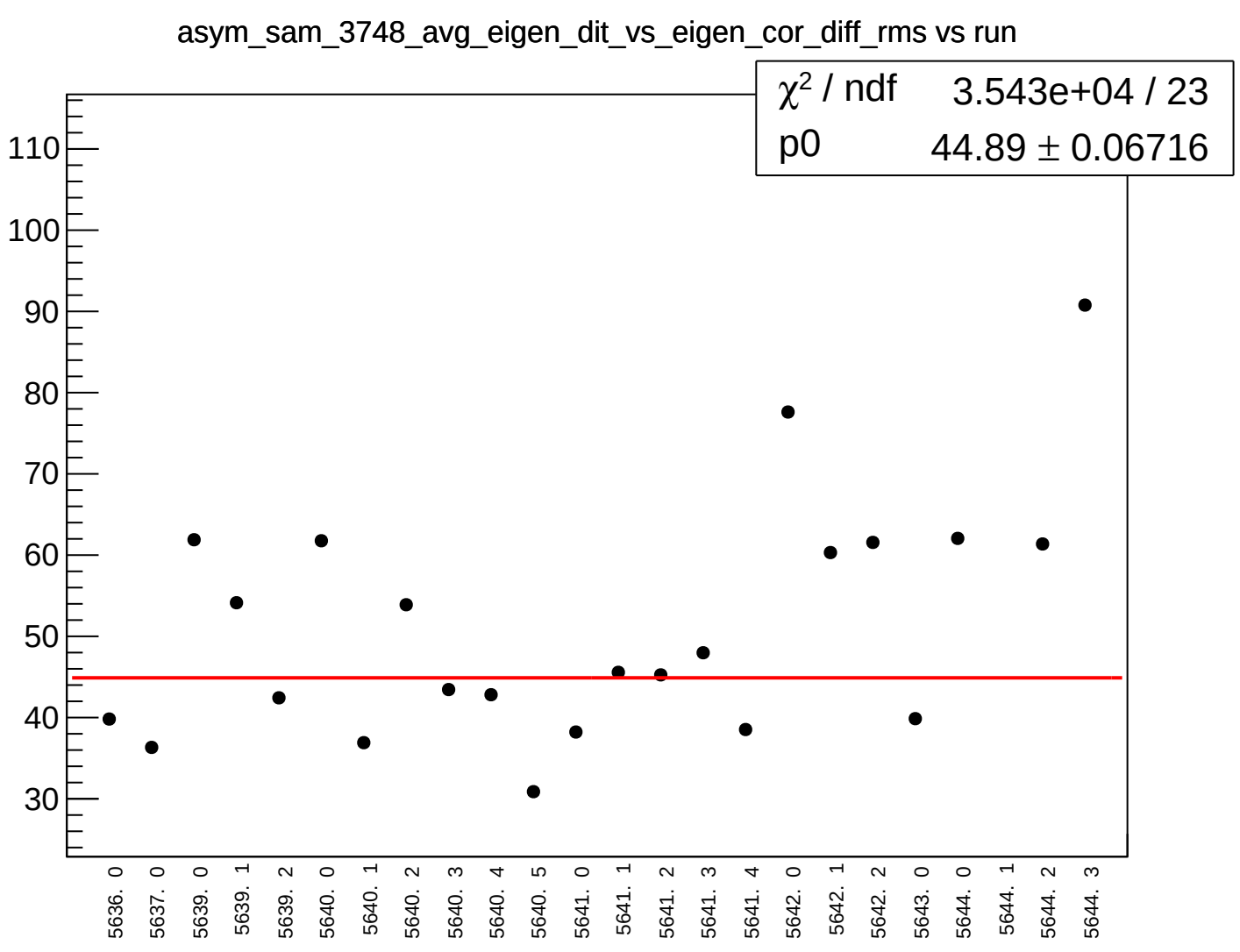

pull1D
Entries 24
Mean 0.009708
Std Dev 0.842
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

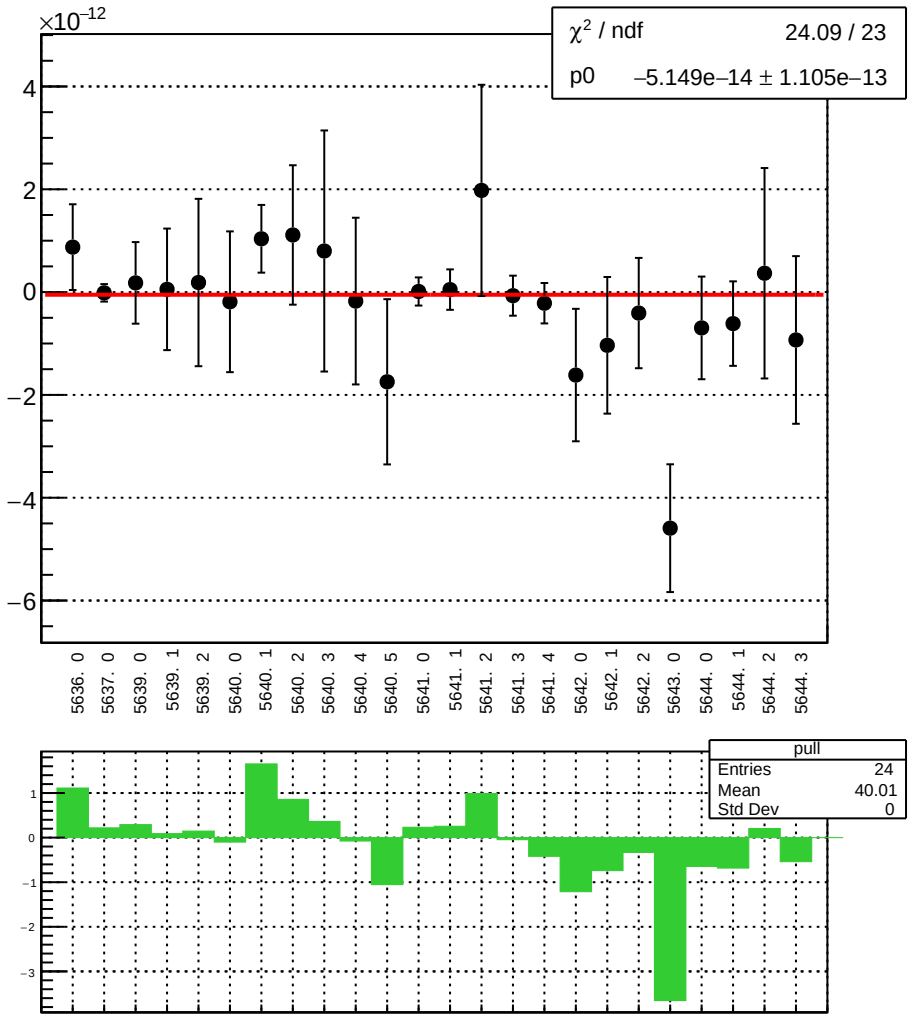

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1130 / 23
p0 0.0008016 ± 1.156e−06
0.9
0.85
0.8
0.75
0.7
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

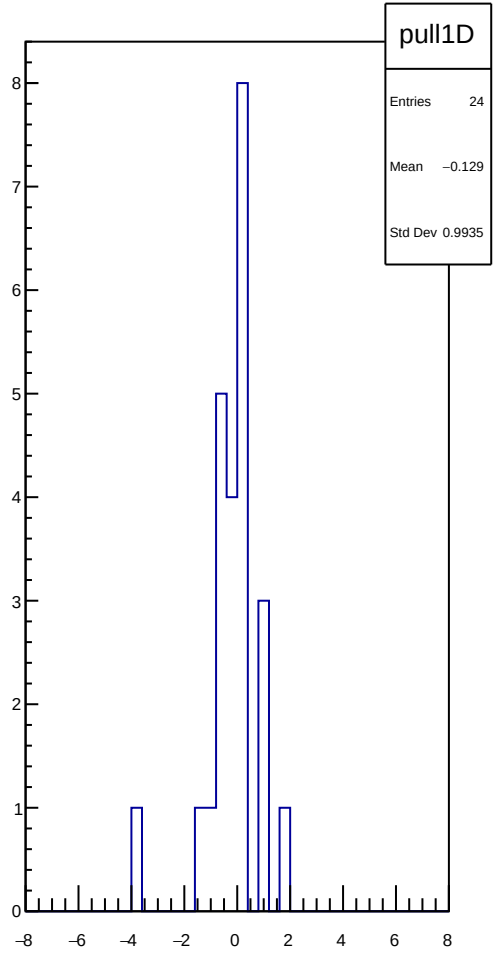

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 14.01 / 23
p0 0.1647 ± 0.09497
1
0
−1
−2
−3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 36.34
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.06951
Std Dev 0.7608
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

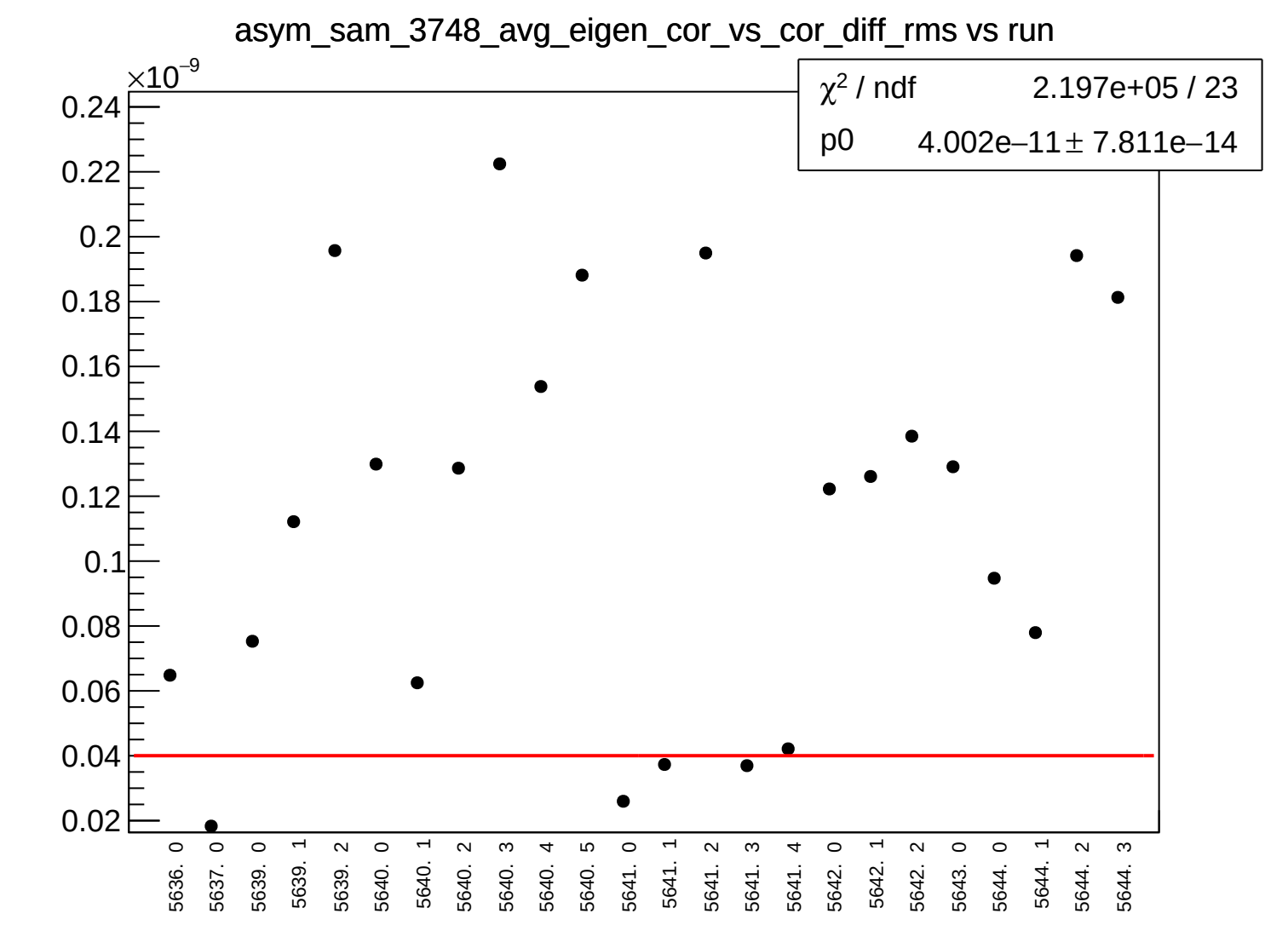

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.543e+04 / 23
p0 44.89 ± 0.06716
110
100
90
80
70
60
50
40
30
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

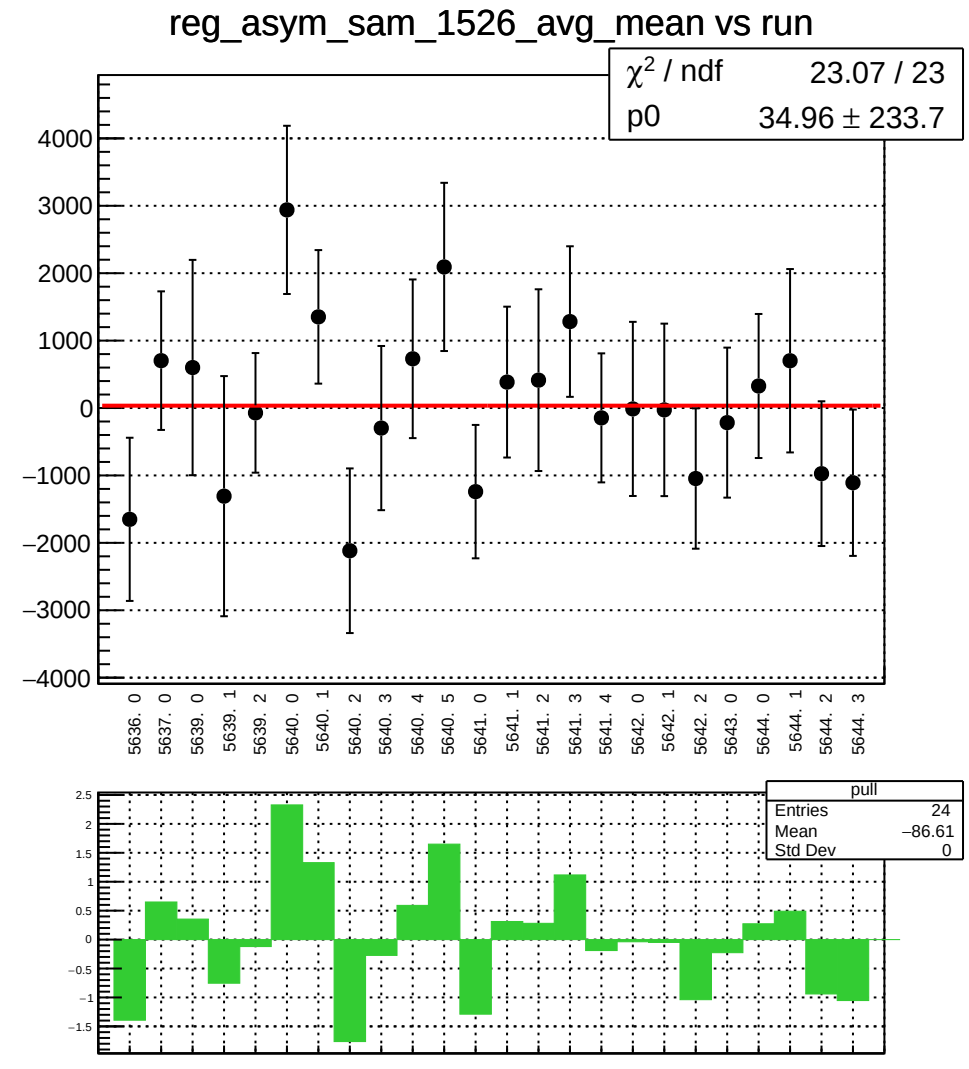

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 14.01 / 23
p0 0.1647 ± 0.09497
1
0
−1
−2
−3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 36.34
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.06951
Std Dev 0.7608
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

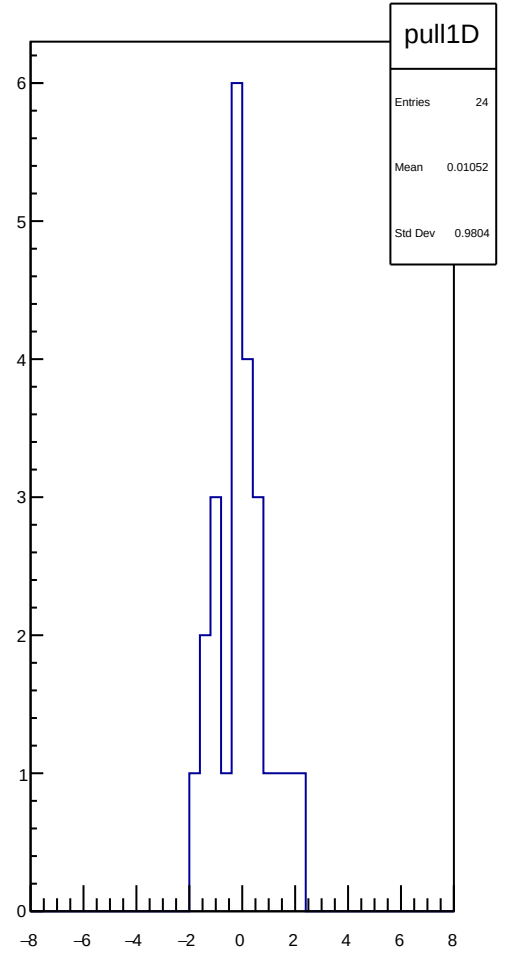

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.543e+04 / 23
p0 44.89 ± 0.06716
110
100
90
80
70
60
50
40
30
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

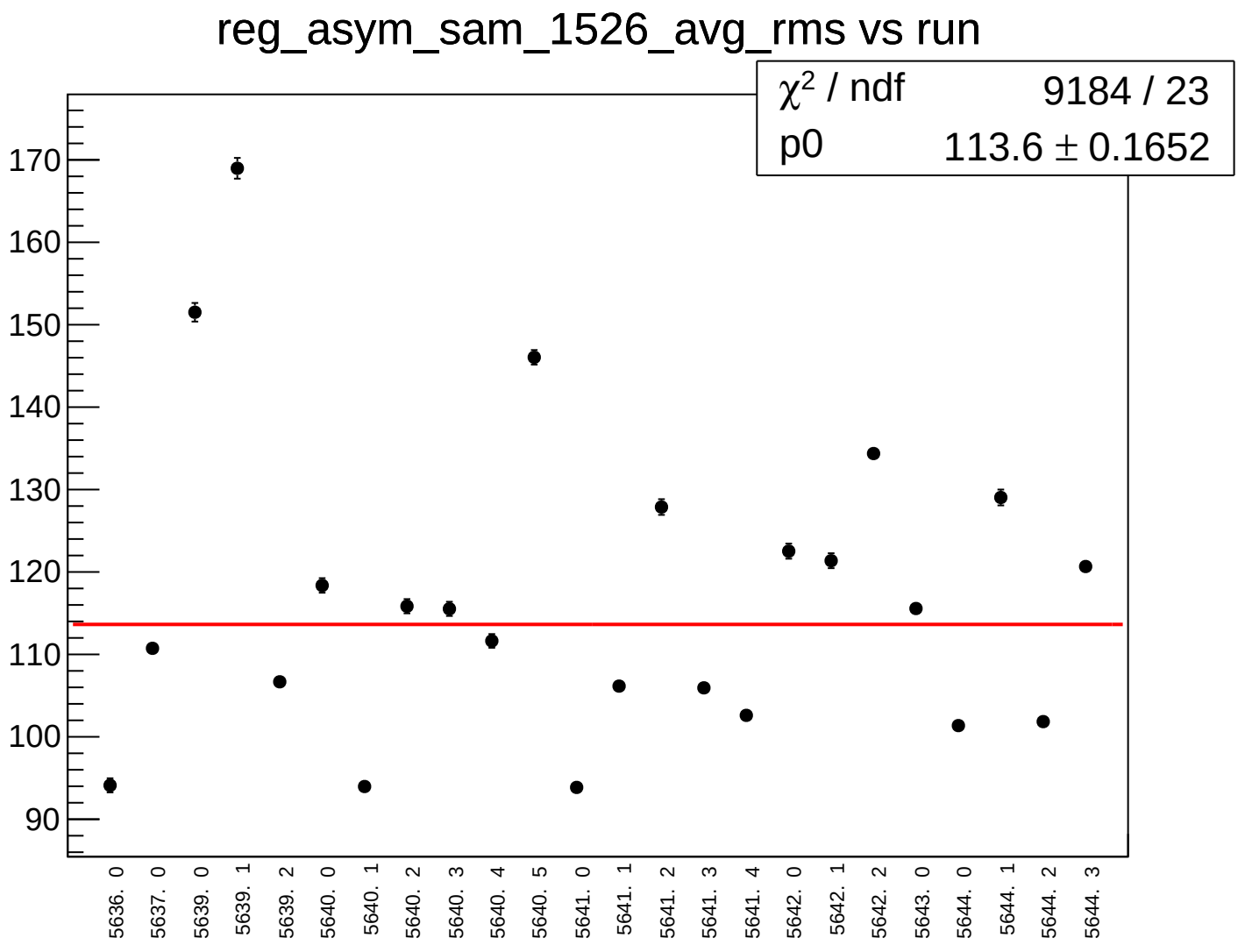

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 24.09 / 23
p0 −5.149e−14 ± 1.105e−13
4
2
0
−2
−4
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 40.01
Std Dev 0
1
0
−1
−2
−3

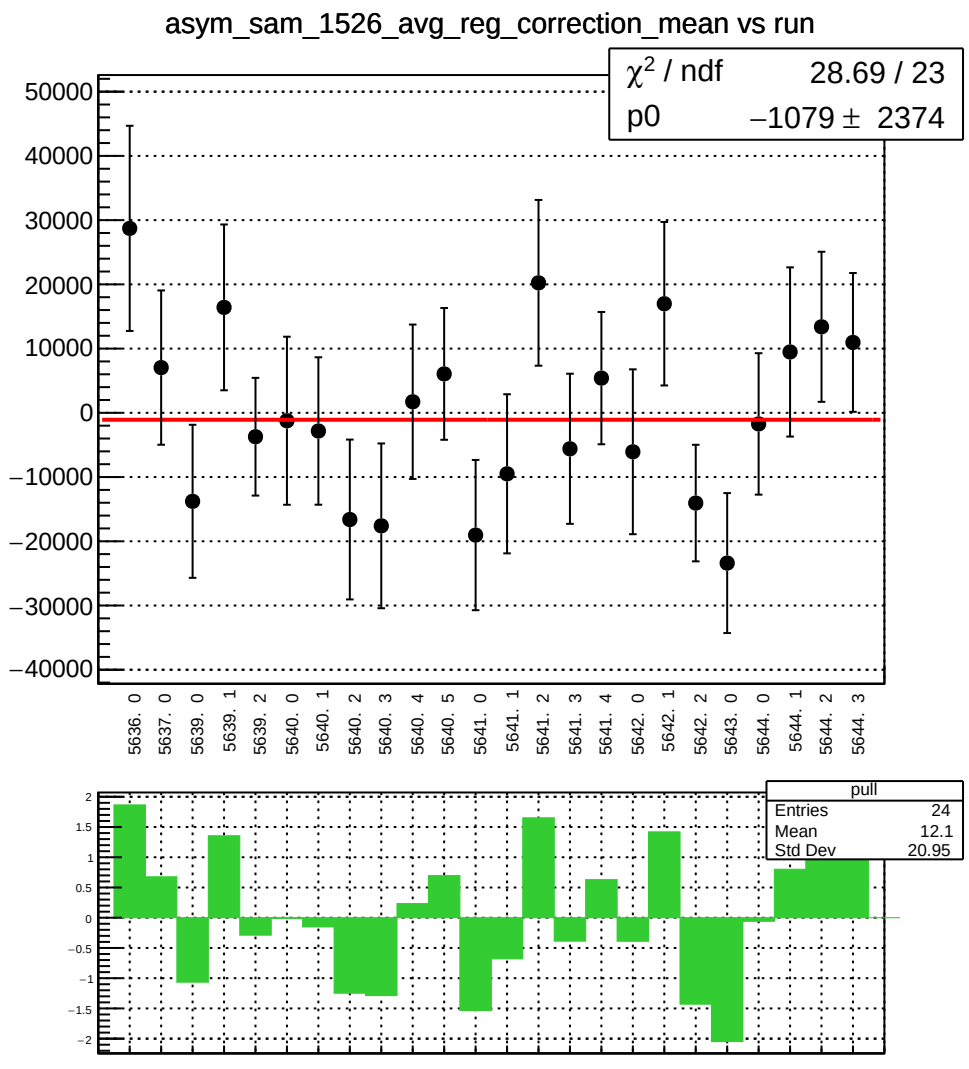

pull1D
Entries 24
Mean −0.129
Std Dev 0.9935
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

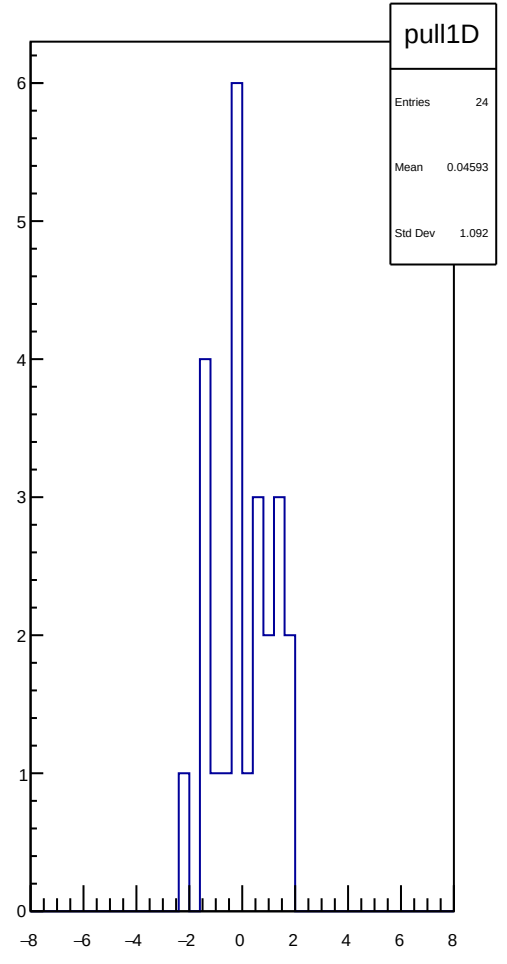

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.197e+05 / 23
p0 4.002e−11 ± 7.811e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

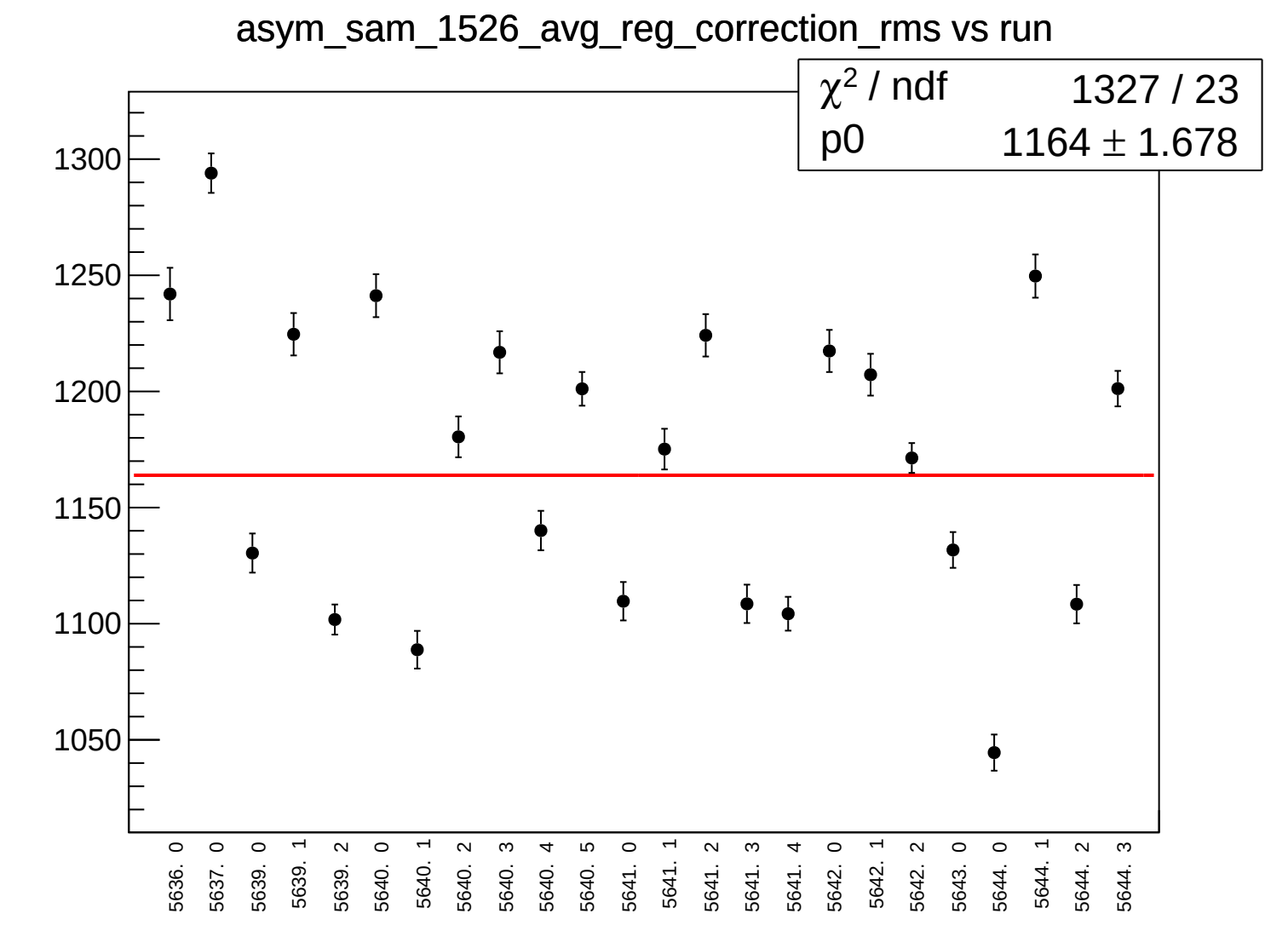

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 23.07 / 23
p0 34.96 ± 233.7
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −86.61
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

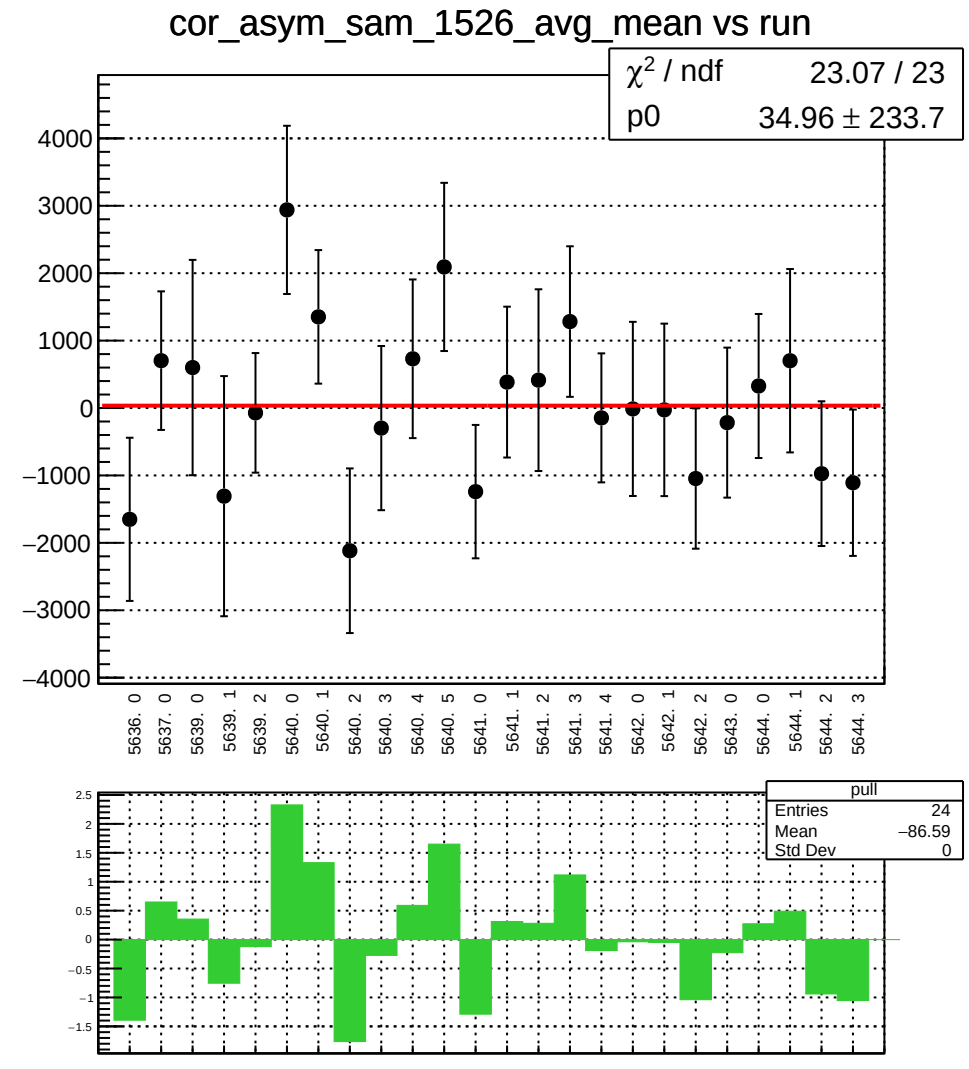

pull1D
Entries 24
Mean 0.01052
Std Dev 0.9804
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

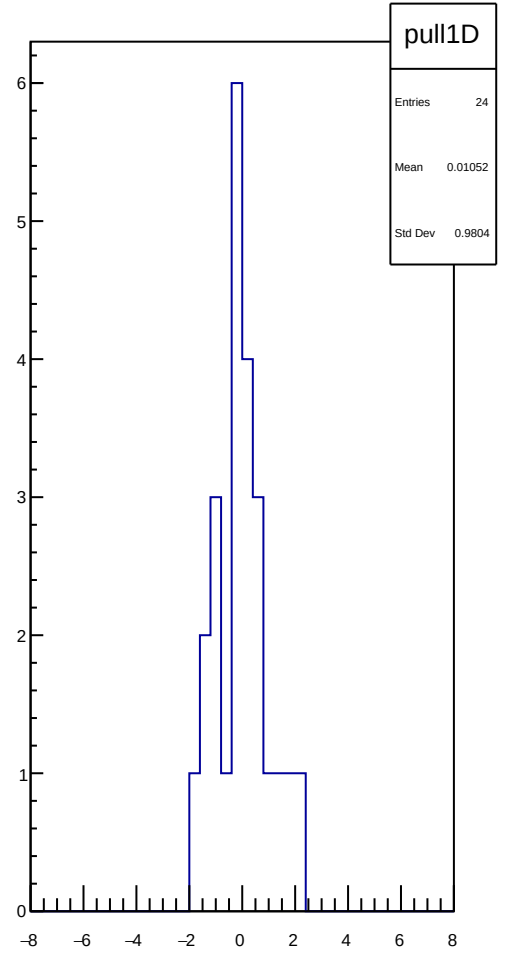

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 9184 / 23
p0 113.6 ± 0.1652
170
160
150
140
130
120
110
100
90
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

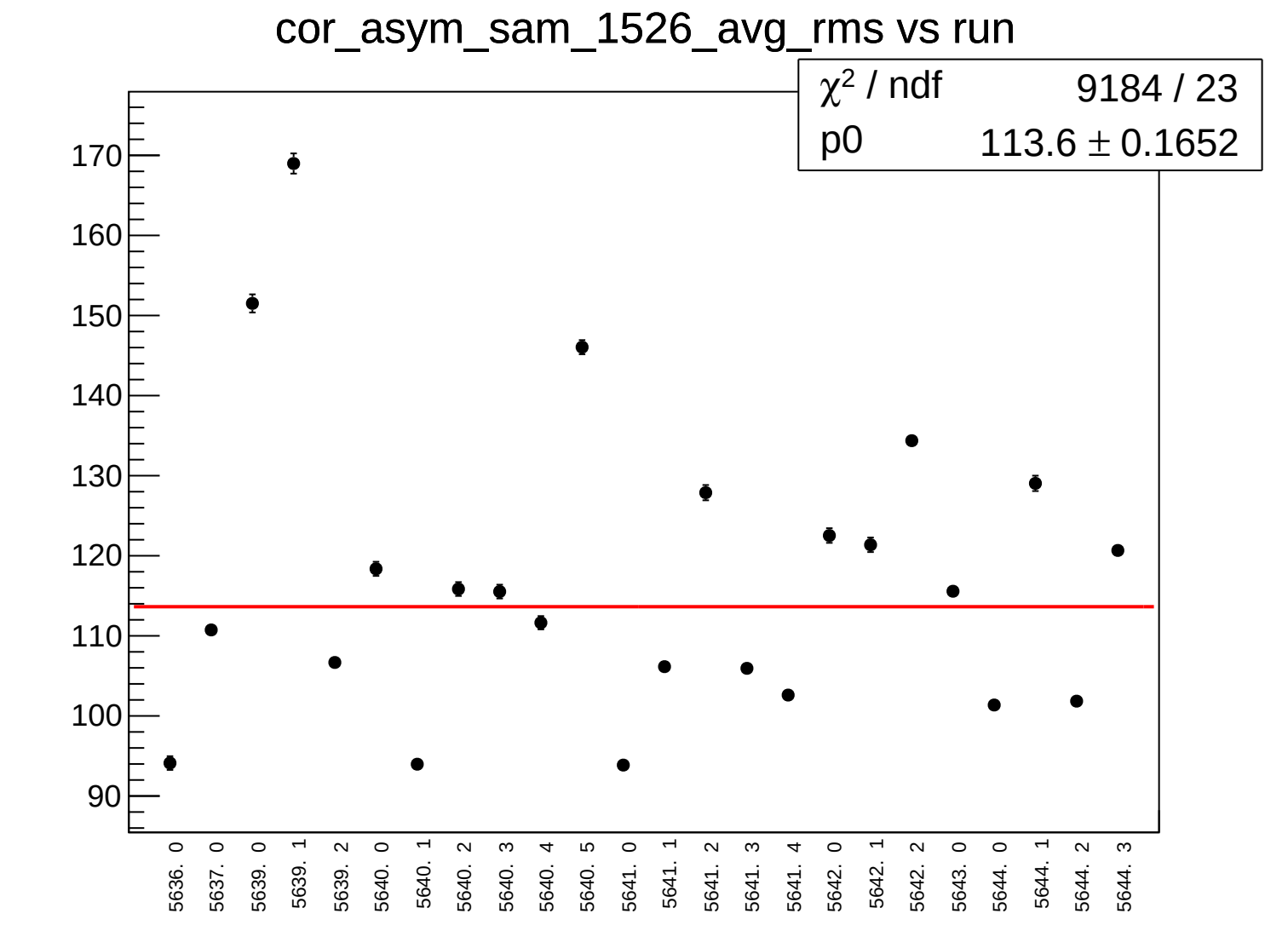

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 28.69 / 23
p0 −1079 ± 2374
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 12.1
Std Dev 20.95
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

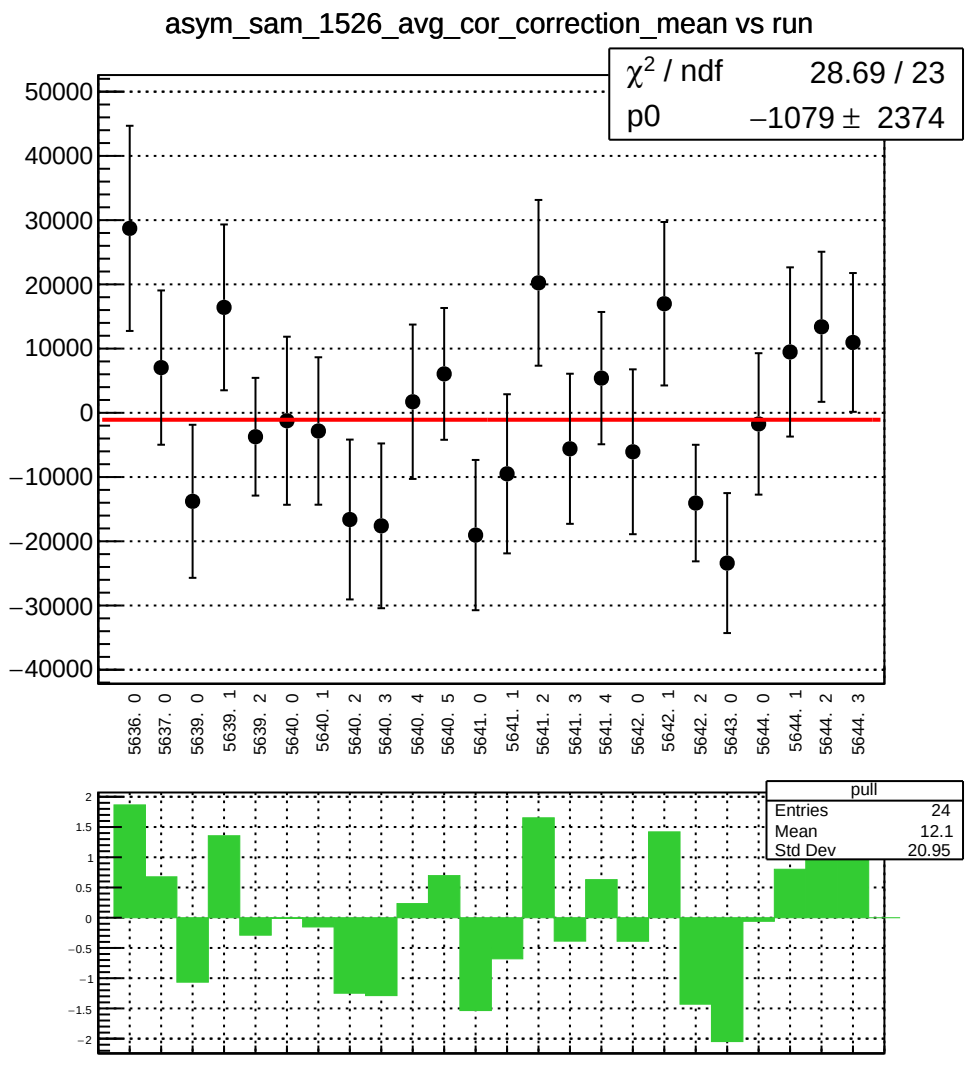

pull1D
Entries 24
Mean 0.04593
Std Dev 1.092
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

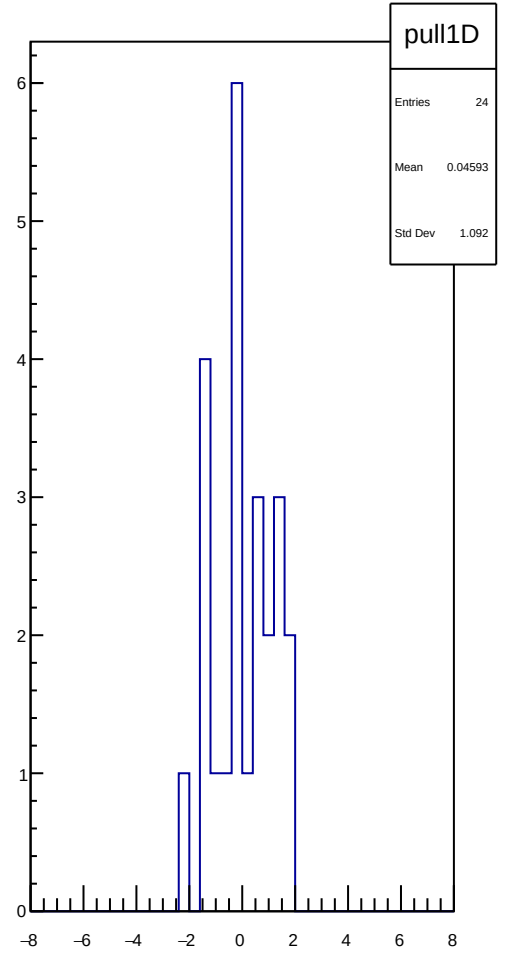

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 1327 / 23
p0 1164 ± 1.678
1300
1250
1200
1150
1100
1050
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

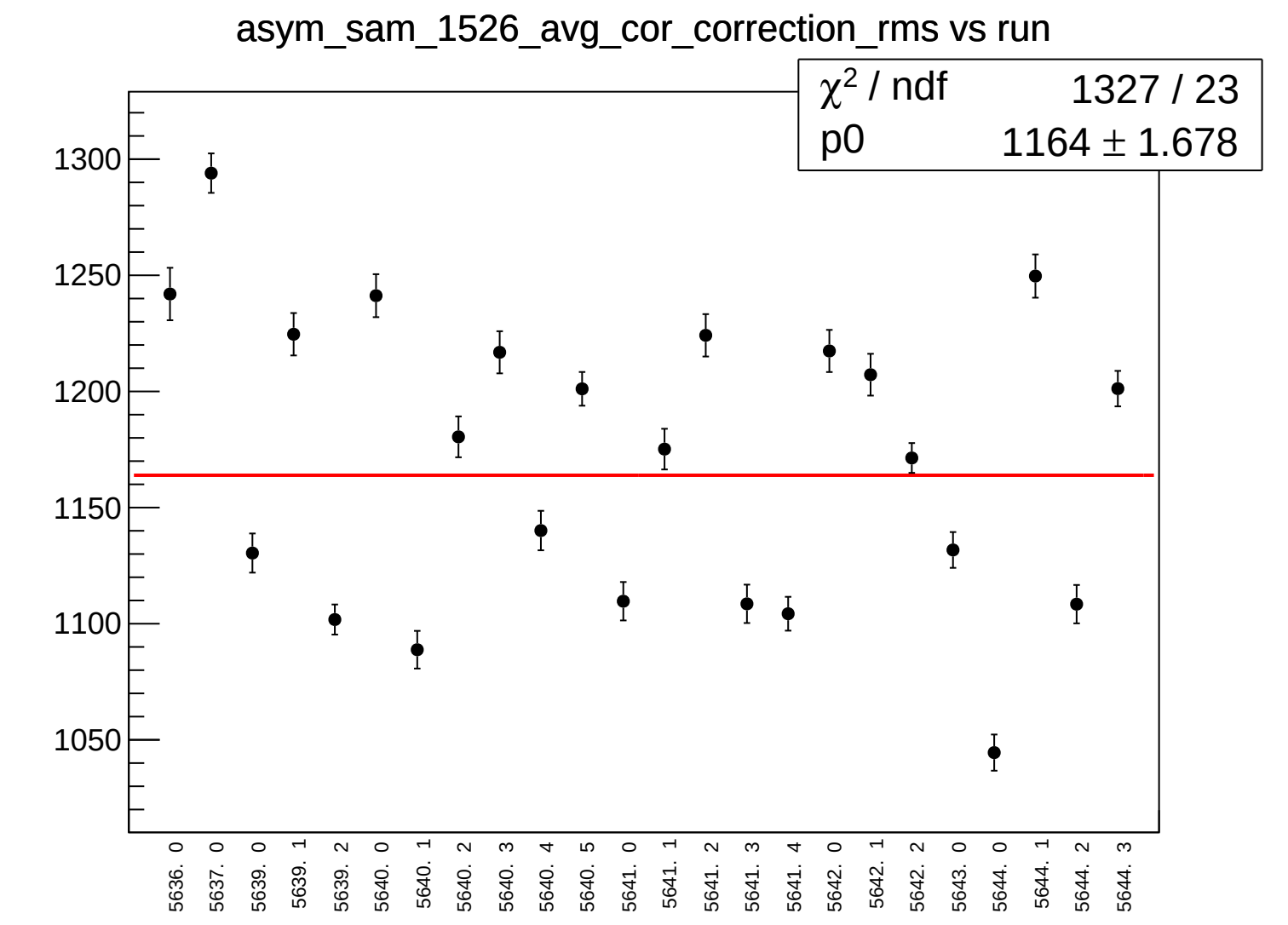

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 23.07 / 23
p0 34.96 ± 233.7
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −86.59
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

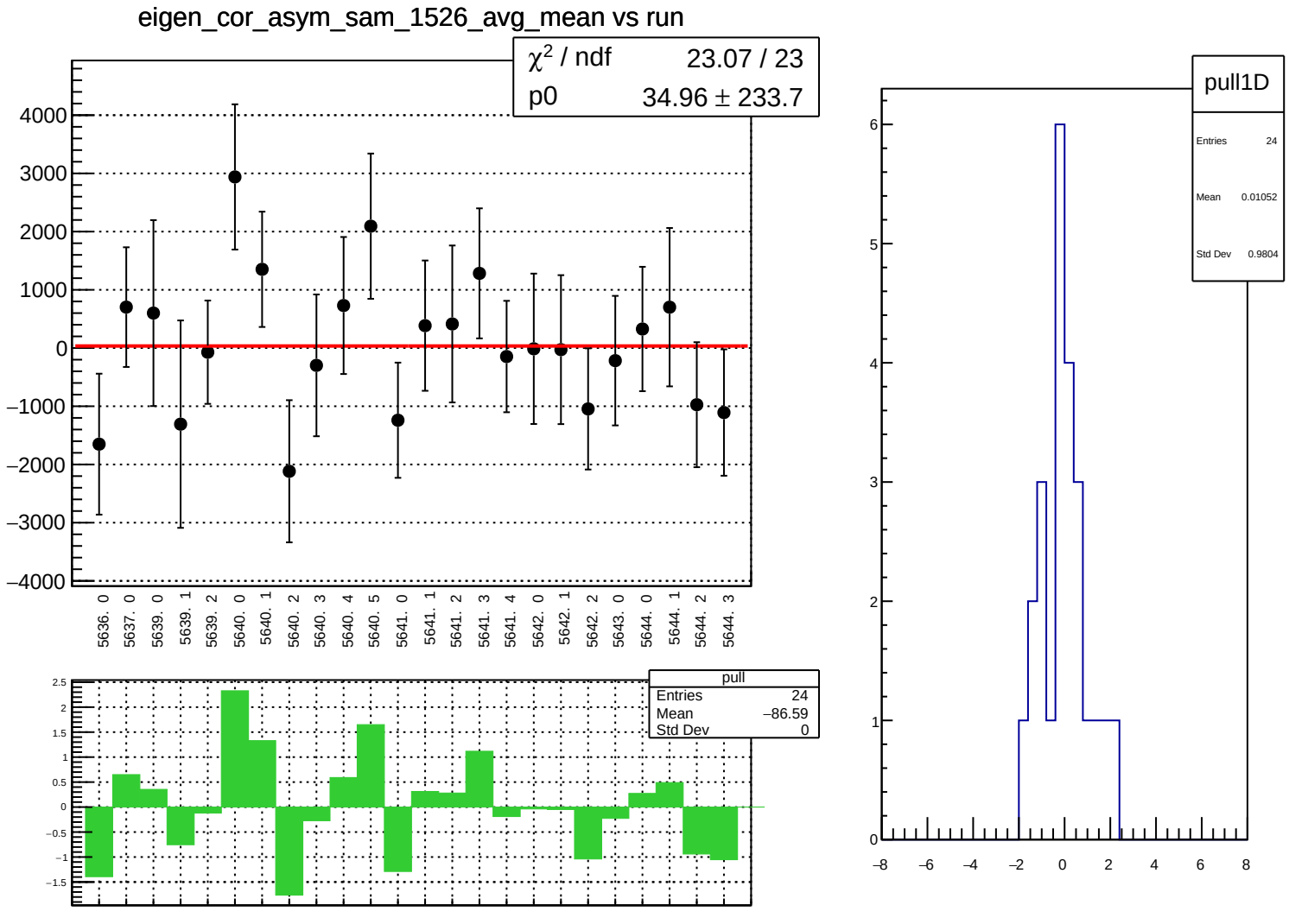

pull1D
Entries 24
Mean 0.01052
Std Dev 0.9804
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

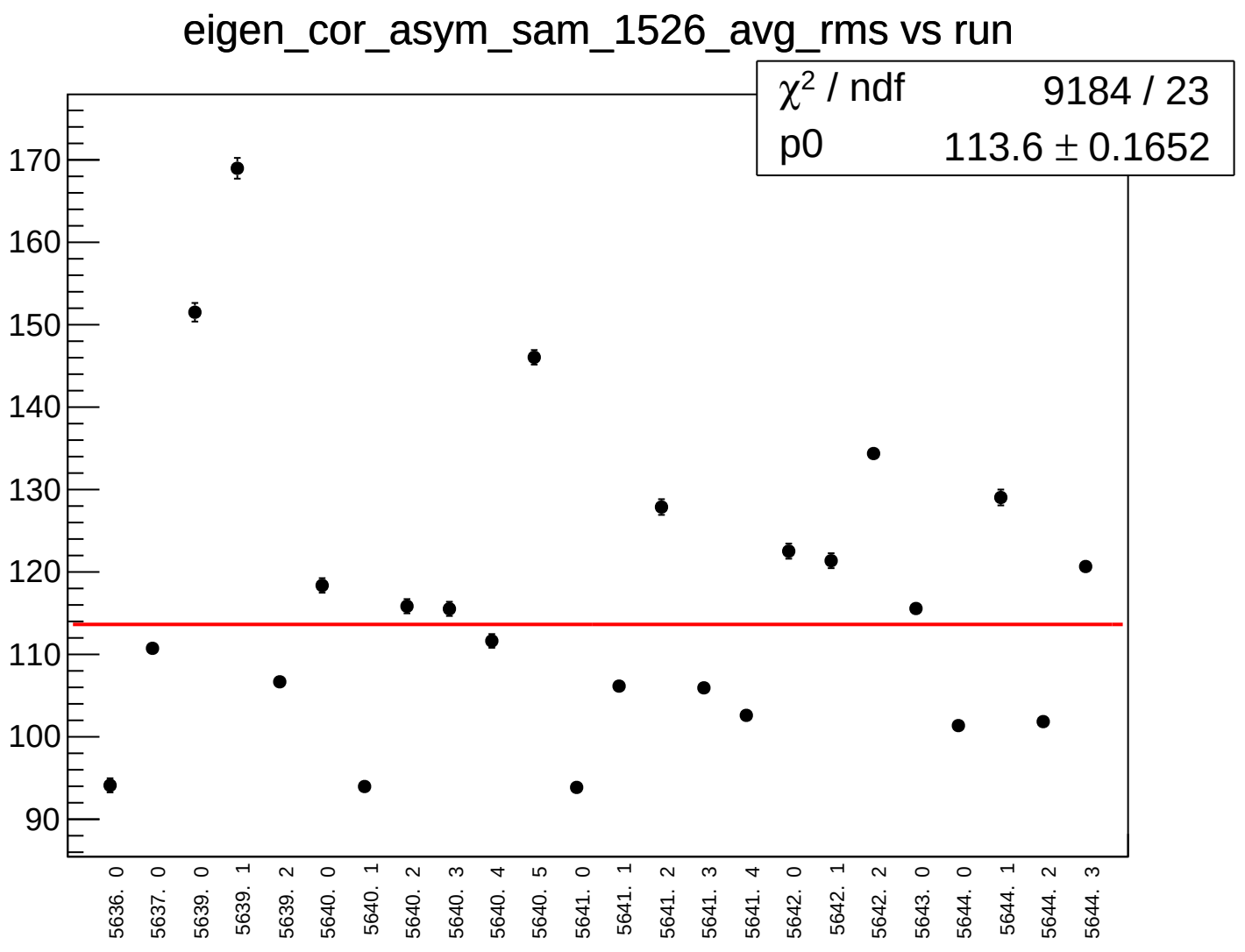

cor_asym_sam_1526_avg_rms vs run
χ² / ndf 9184 / 23
p0 113.6 ± 0.1652
170
160
150
140
130
120
110
100
90
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

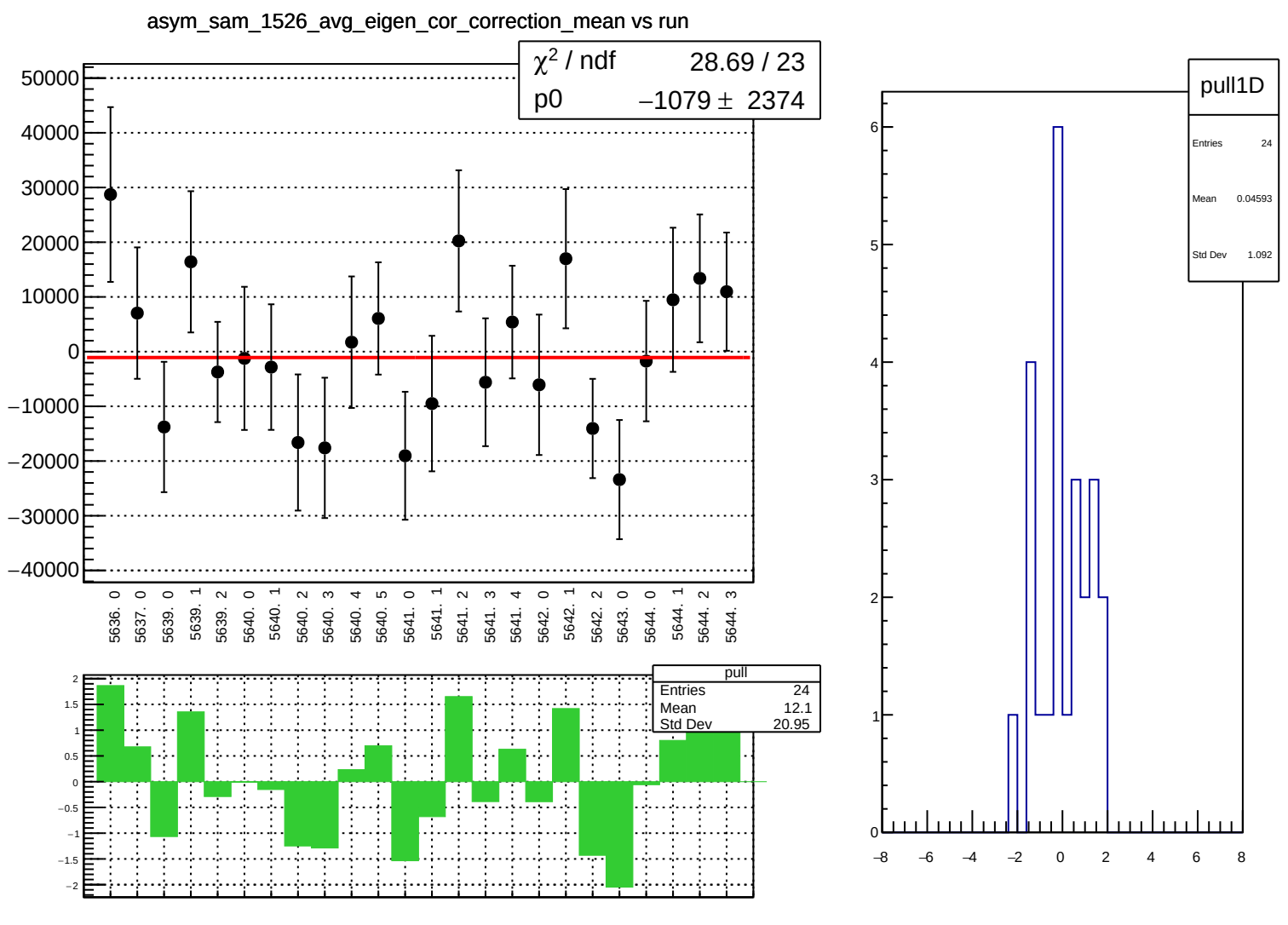

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 28.69 / 23
p0 −1079 ± 2374
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 12.1
Std Dev 20.95
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

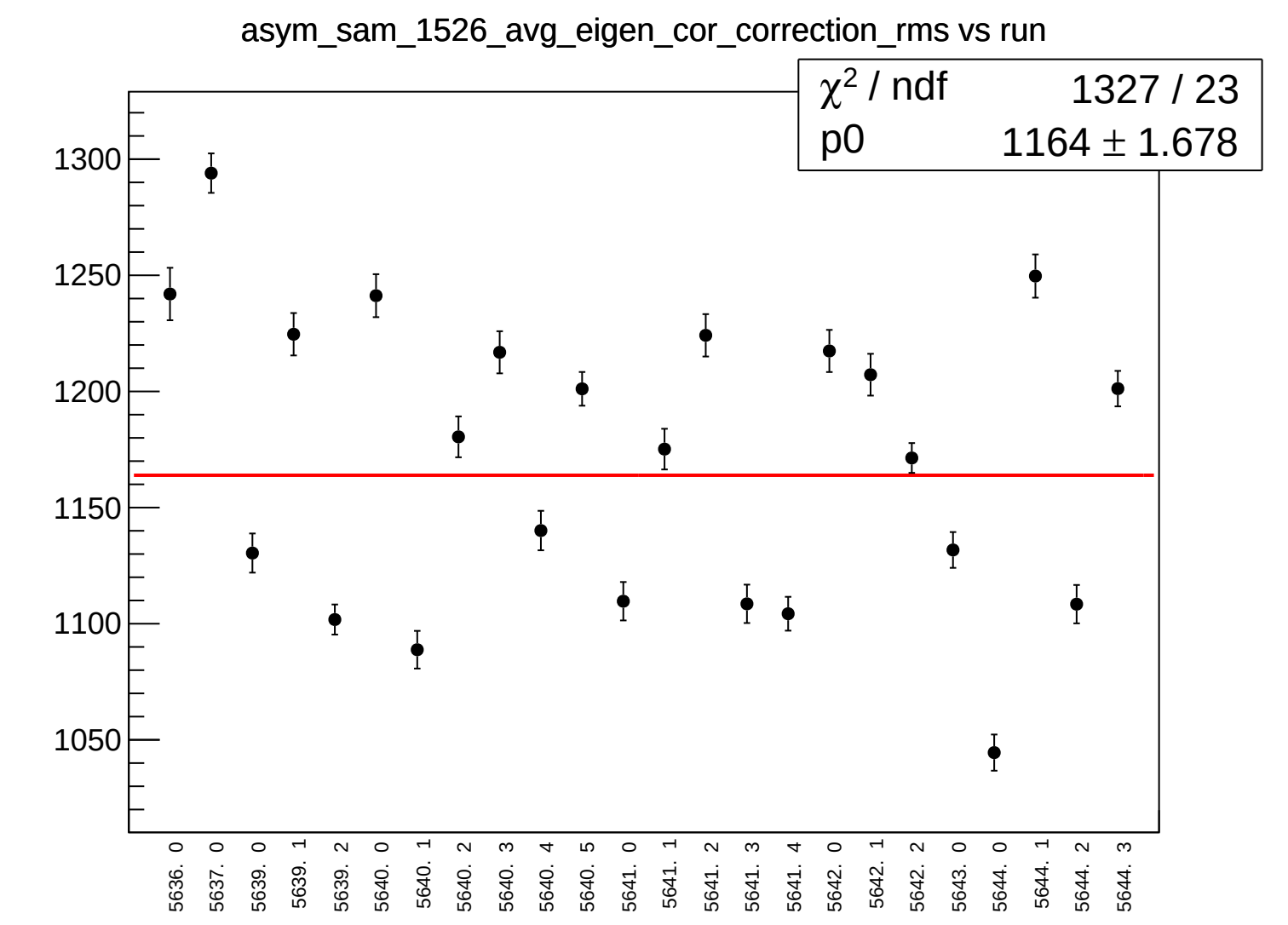

pull1D
Entries 24
Mean 0.04593
Std Dev 1.092
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

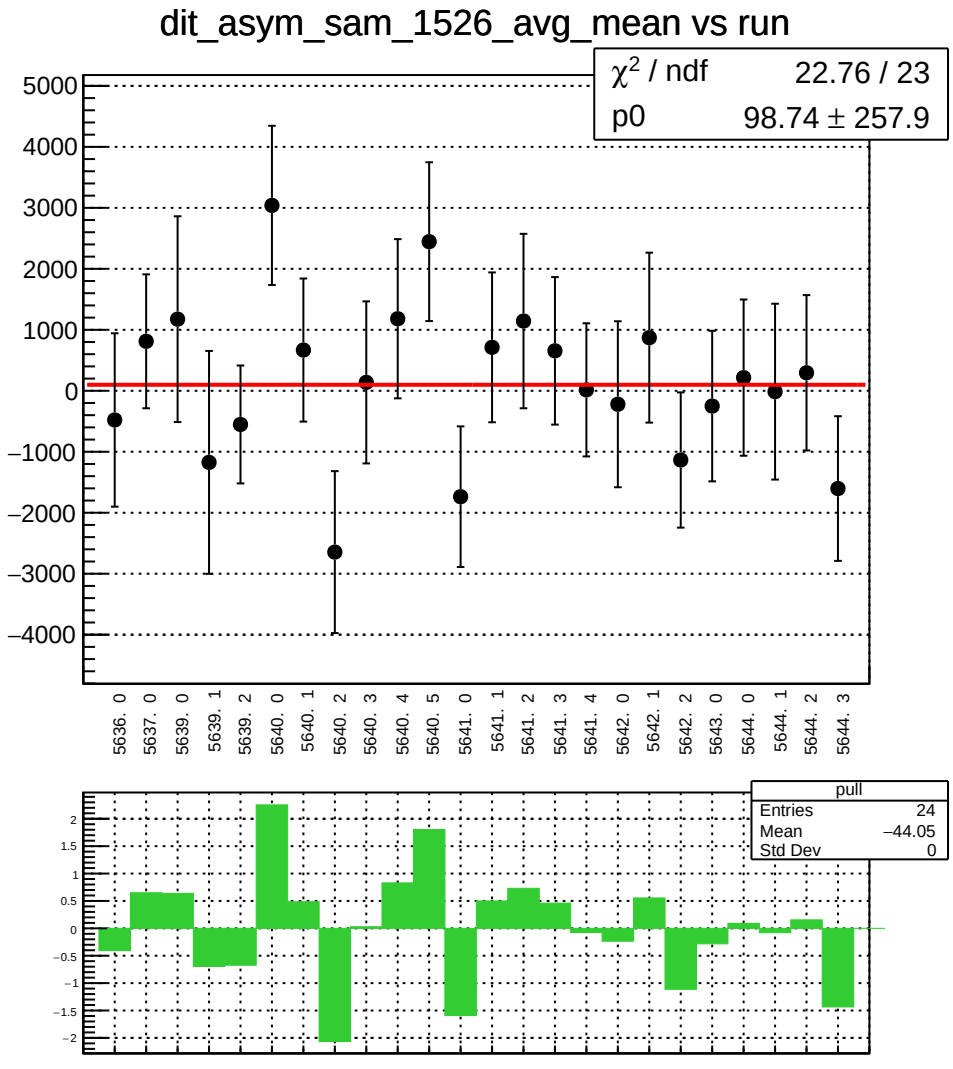

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 1327 / 23
p0 1164 ± 1.678
1300
1250
1200
1150
1100
1050
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

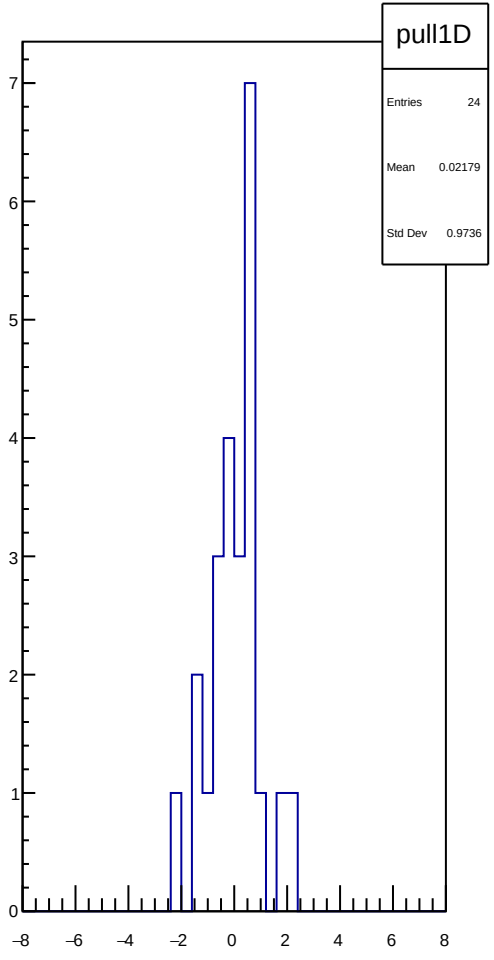

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 23.07 / 23
p0 34.96 ± 233.7
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −86.59
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.01052
Std Dev 0.9804
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

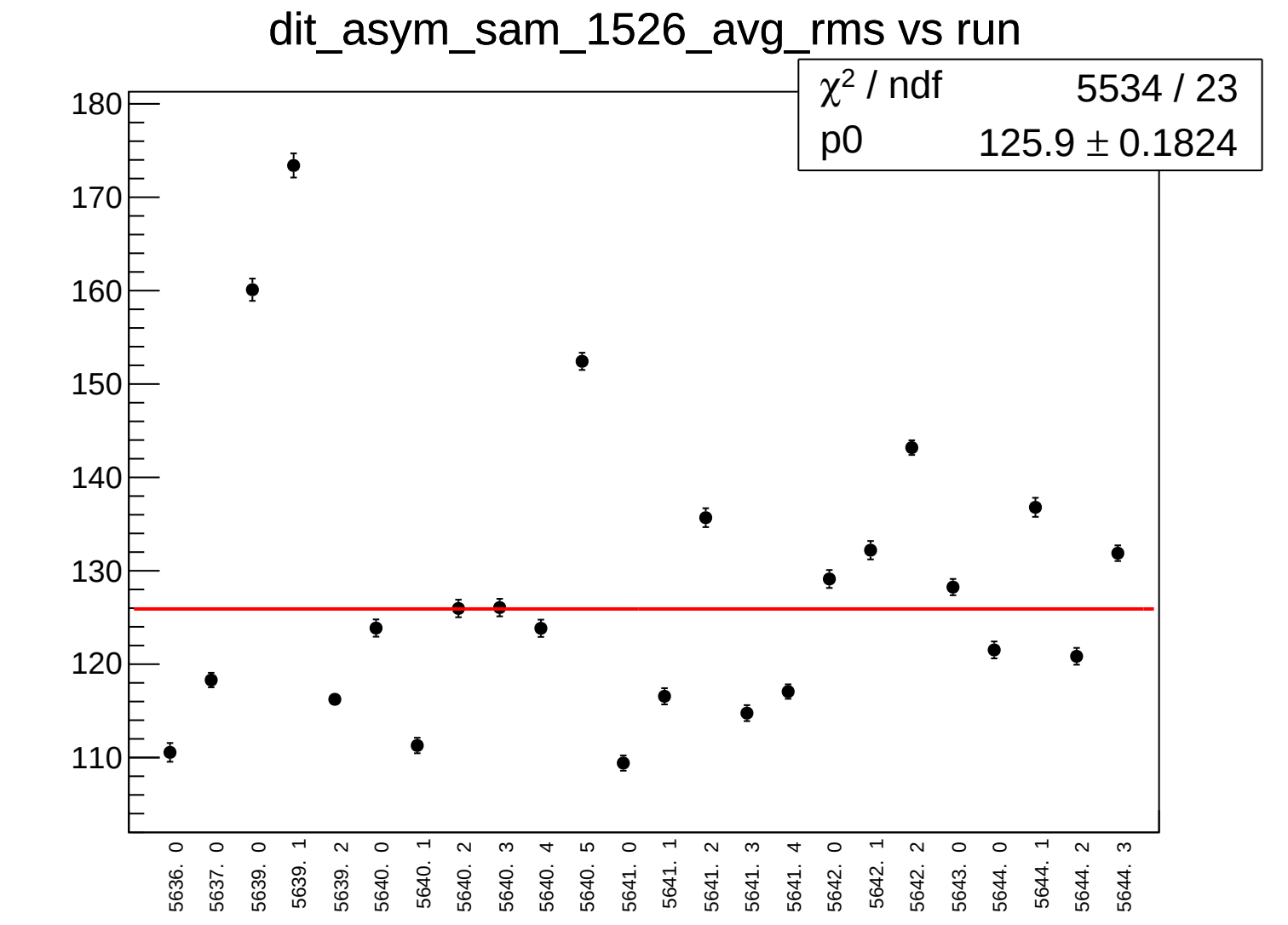

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 9184 / 23
p0 113.6 ± 0.1652
170
160
150
140
130
120
110
100
90
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

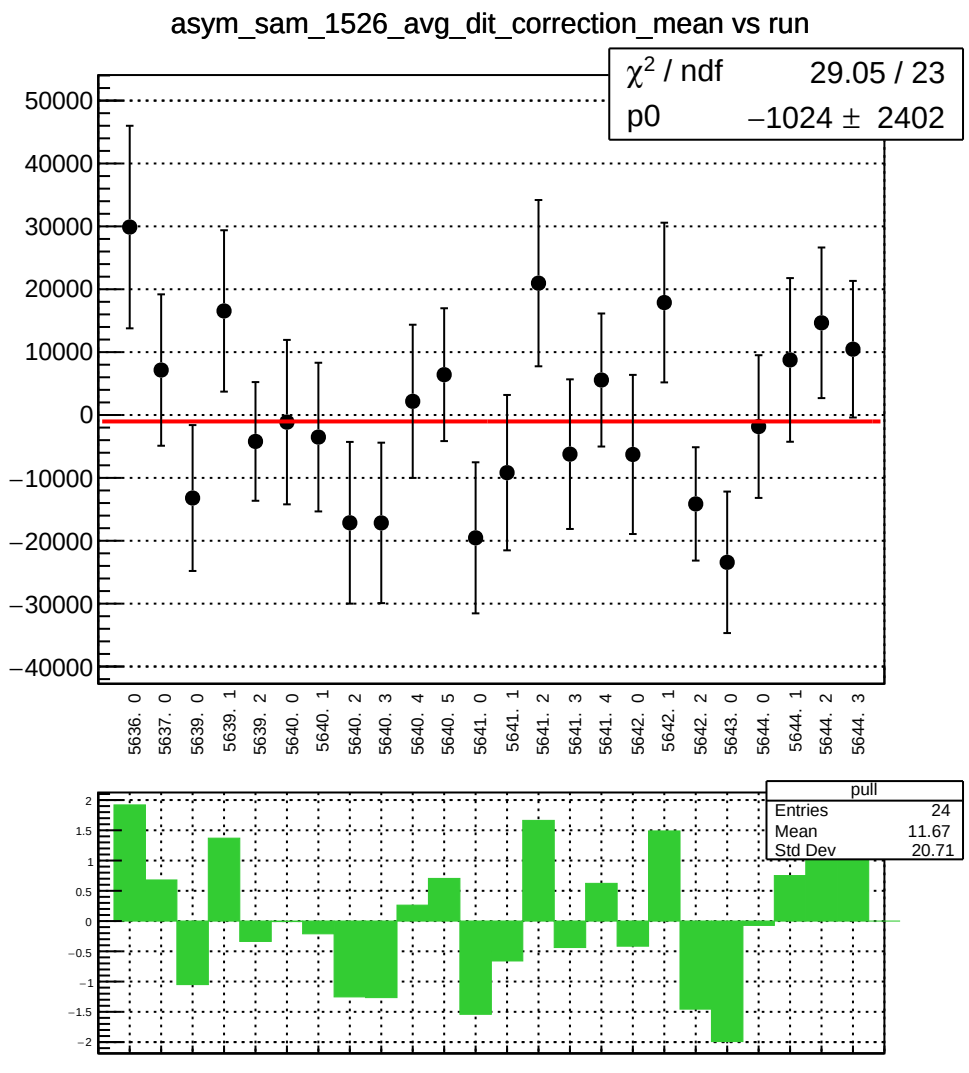

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 28.69 / 23
p0 −1079 ± 2374
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 12.1
Std Dev 20.95
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.04593
Std Dev 1.092
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

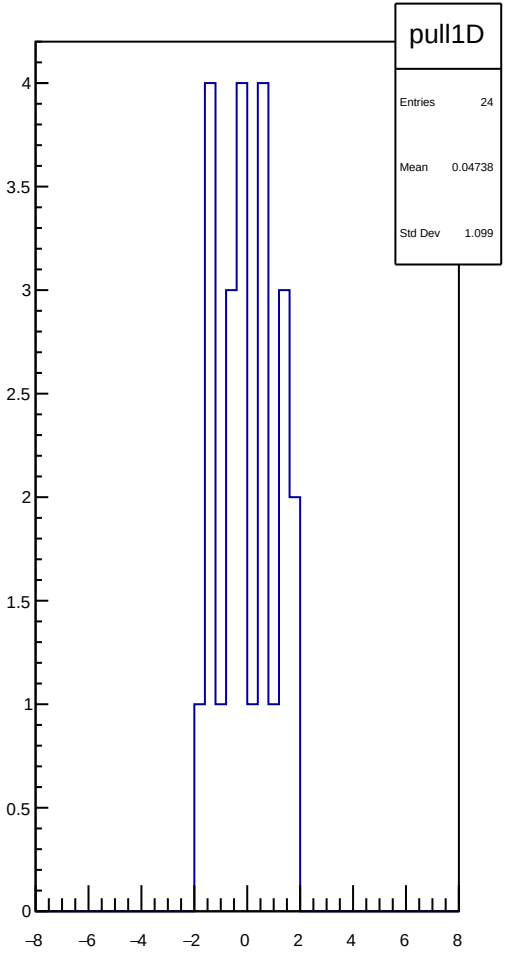

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 1327 / 23
p0 1164 ± 1.678
1300
1250
1200
1150
1100
1050
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

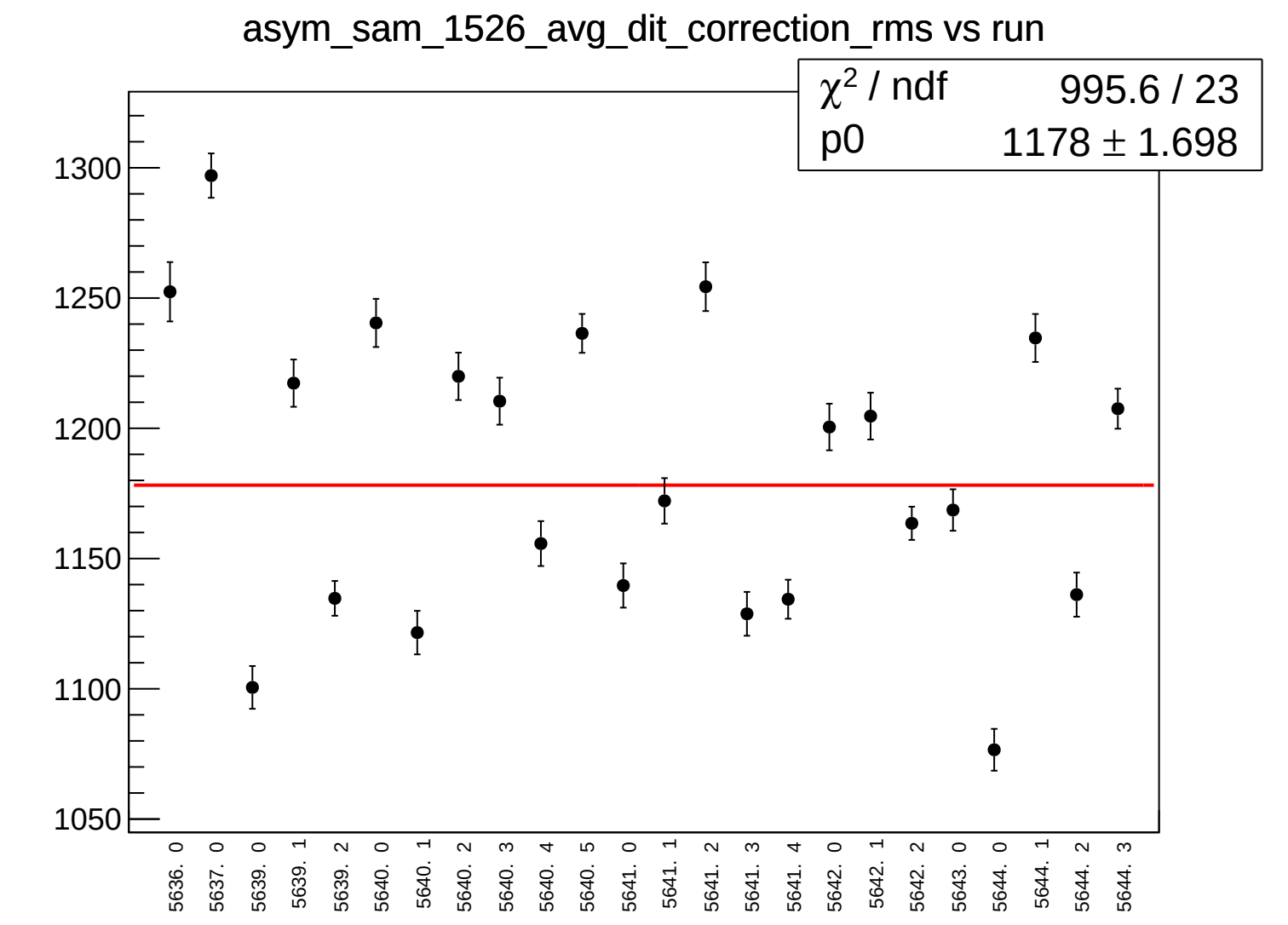

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 22.76 / 23
p0 98.74 ± 257.9
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −44.05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean 0.02179
Std Dev 0.9736
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_1526_avg_rms vs run
χ² / ndf 5534 / 23
p0 125.9 ± 0.1824
180
170
160
150
140
130
120
110
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 29.05 / 23
p0 −1024 ± 2402
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 11.67
Std Dev 20.71
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean 0.04738
Std Dev 1.099
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 995.6 / 23
p0 1178 ± 1.698
1300
1250
1200
1150
1100
1050
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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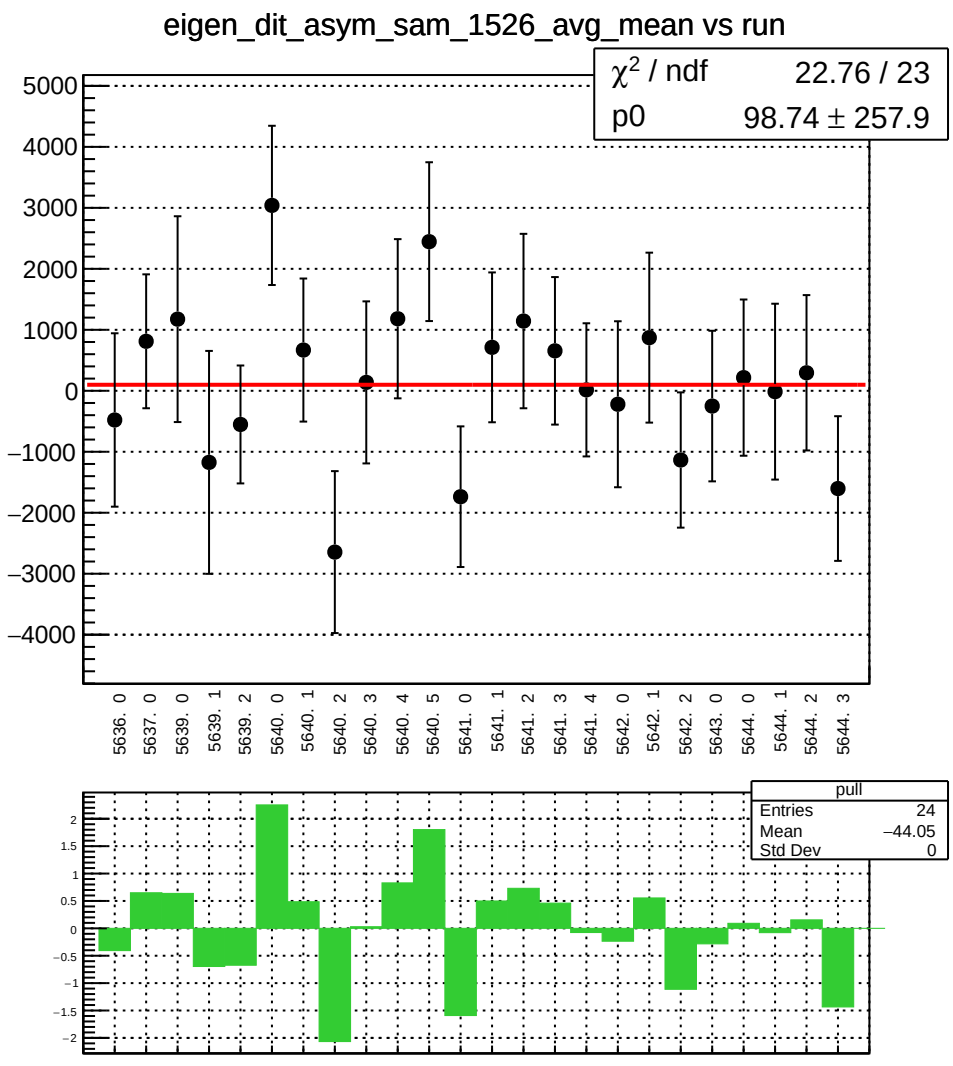
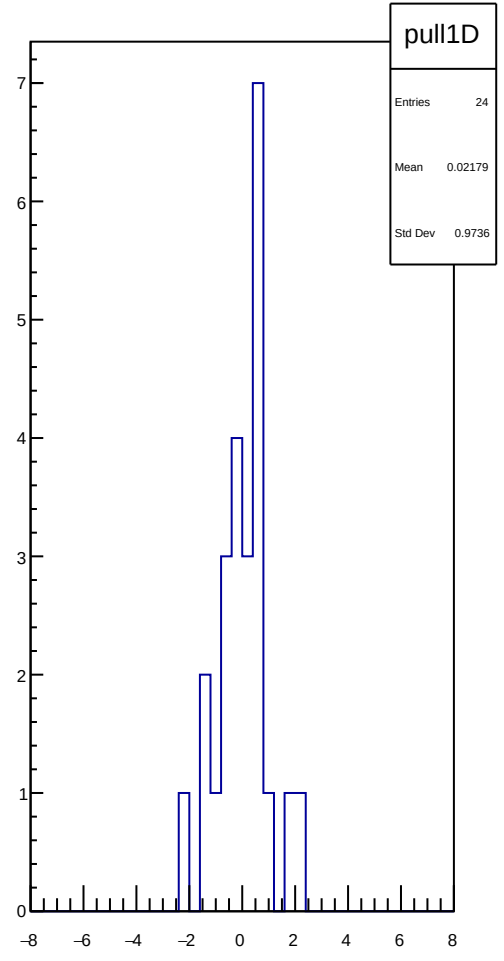
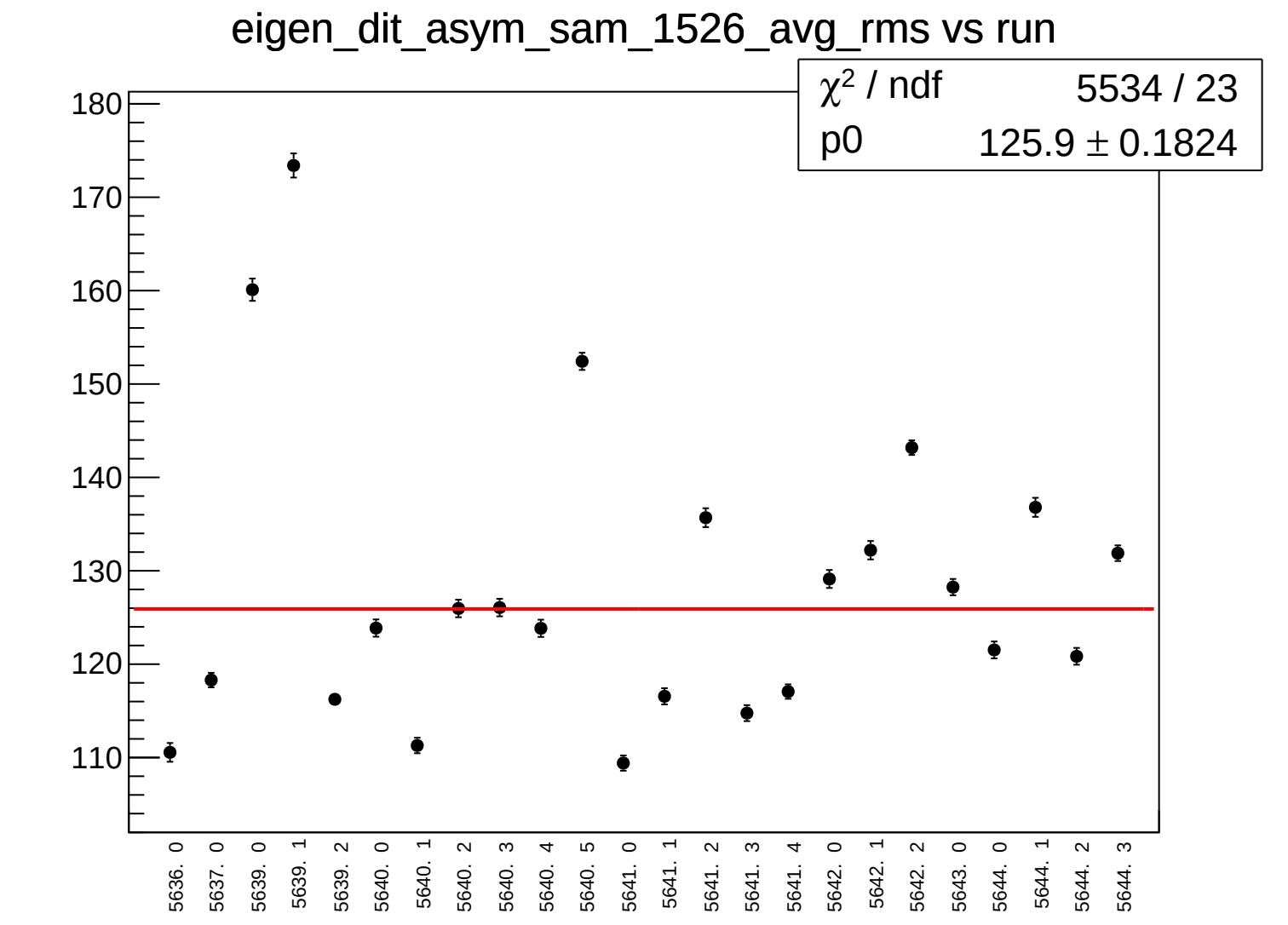
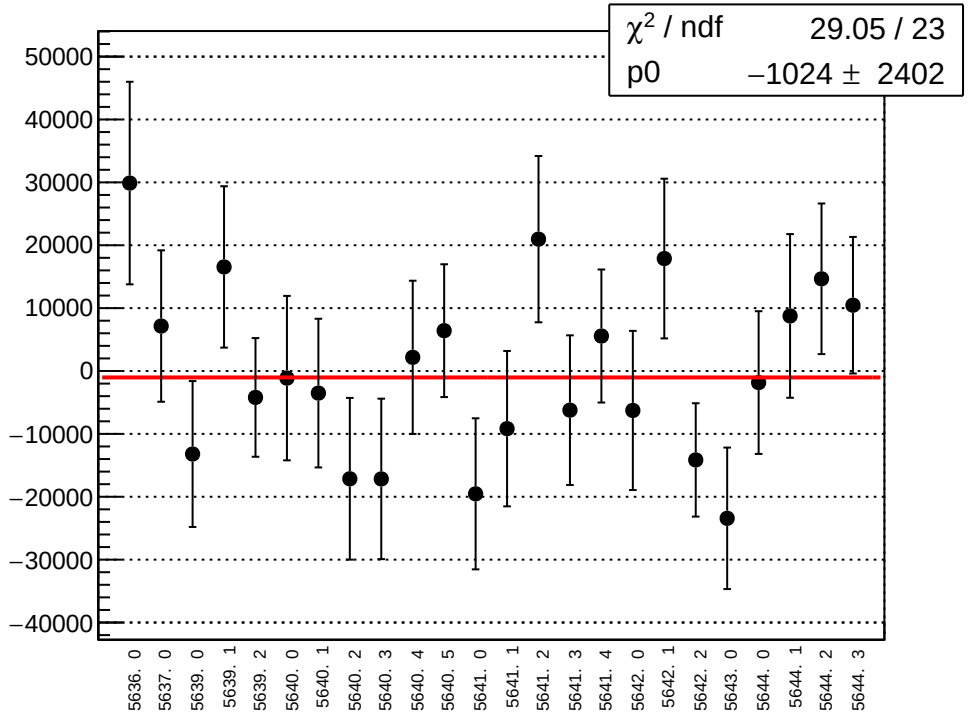
5644. 2
5644. 3

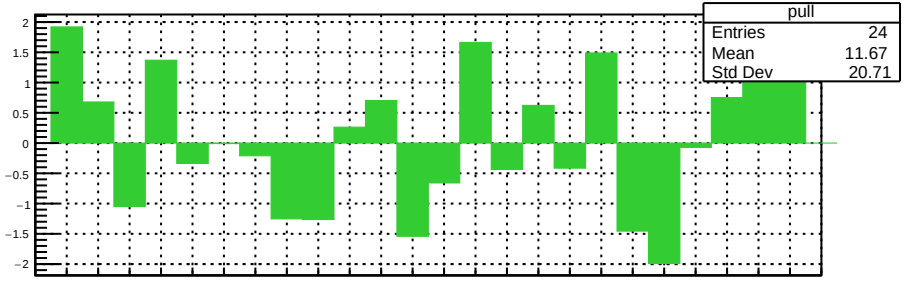

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 22.76 / 23
p0 98.74 ± 257.9
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −44.05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

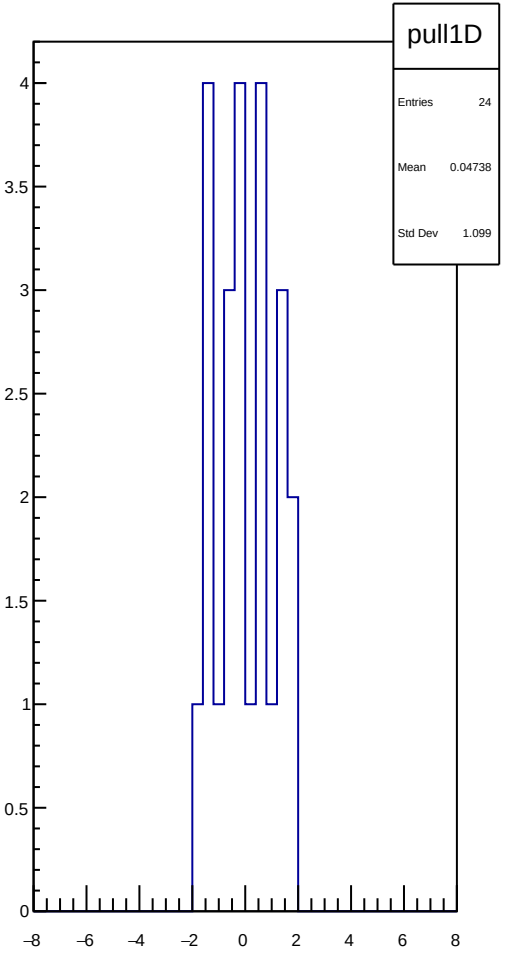

pull1D
Entries 24
Mean 0.02179
Std Dev 0.9736
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

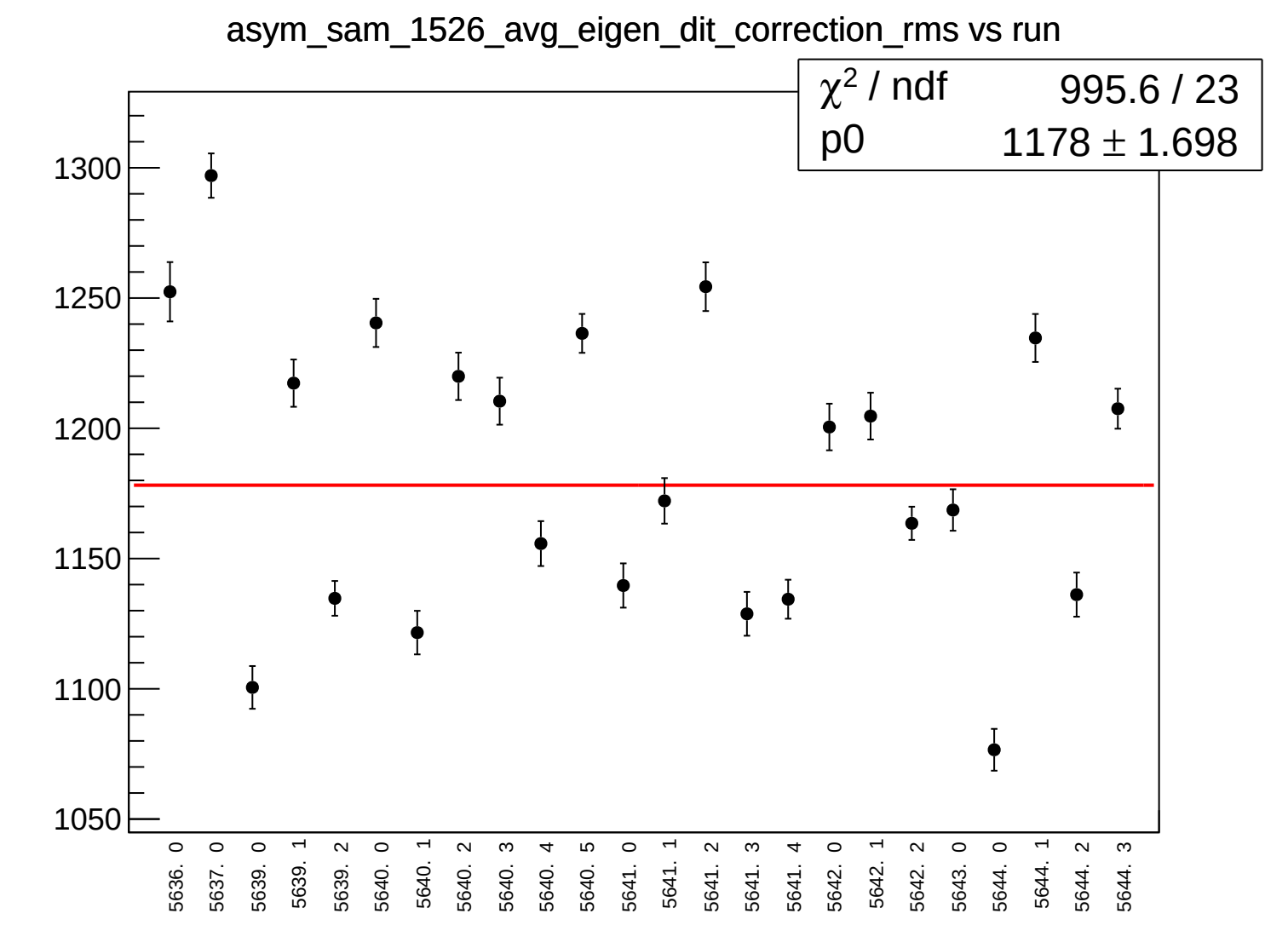

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 5534 / 23
p0 125.9 ± 0.1824
180
170
160
150
140
130
120
110
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

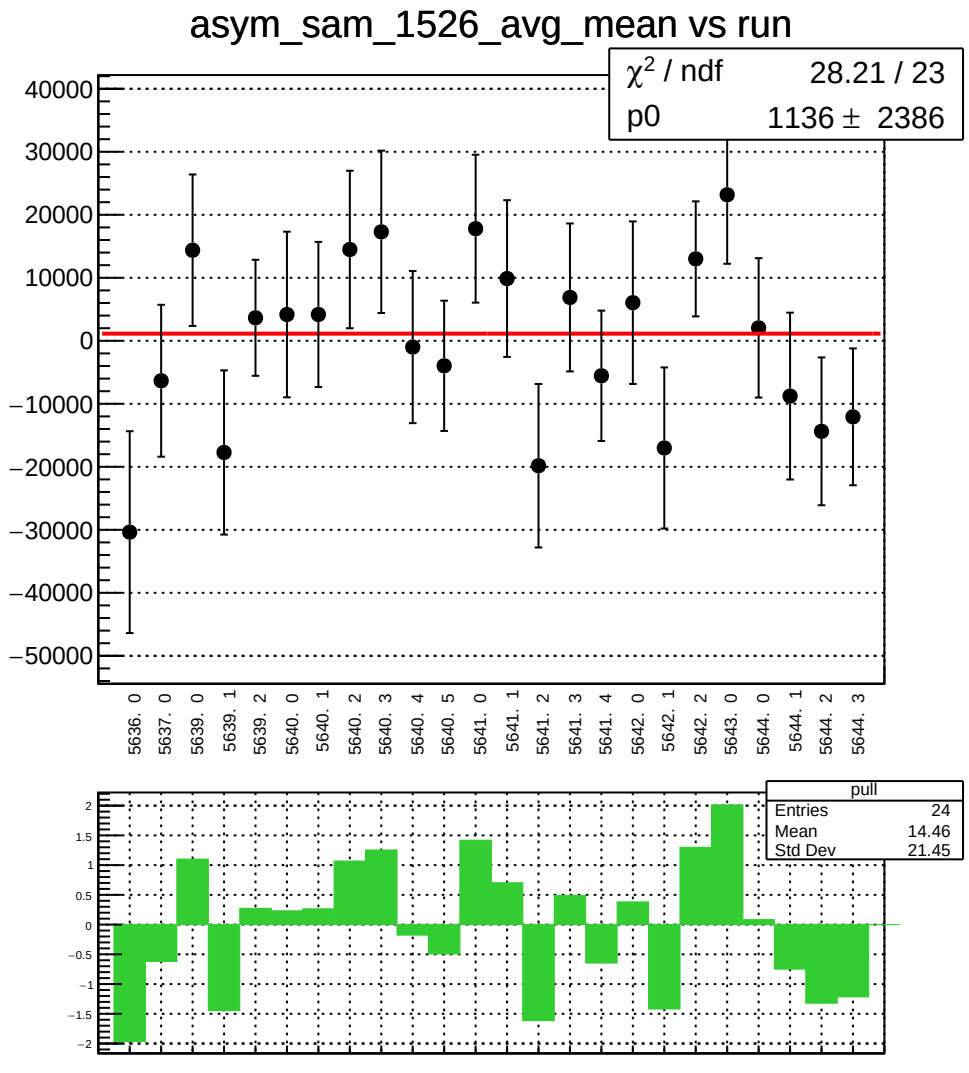
asym_sam_1526_avg_eigen_dit_correction_mean vs run

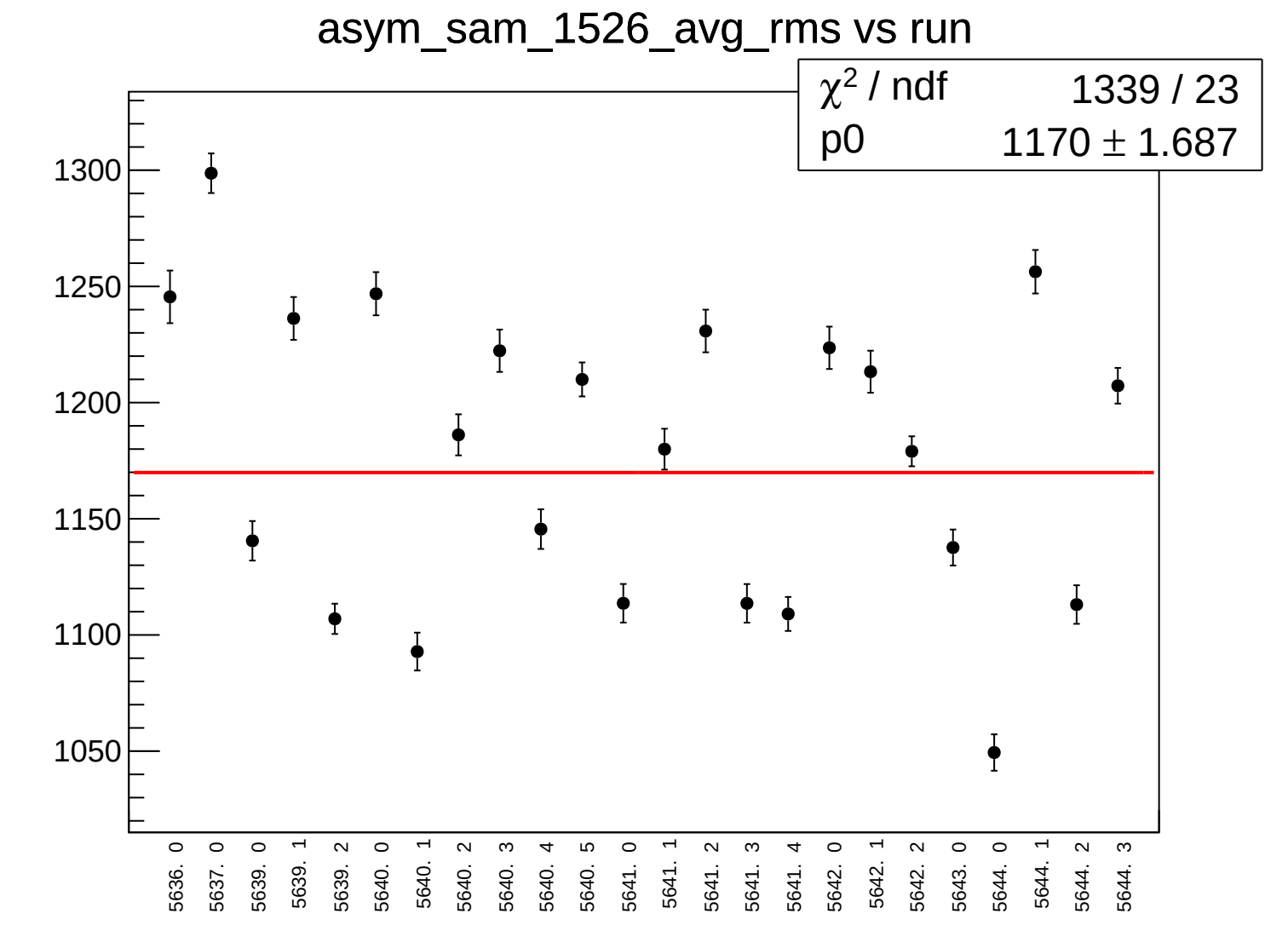


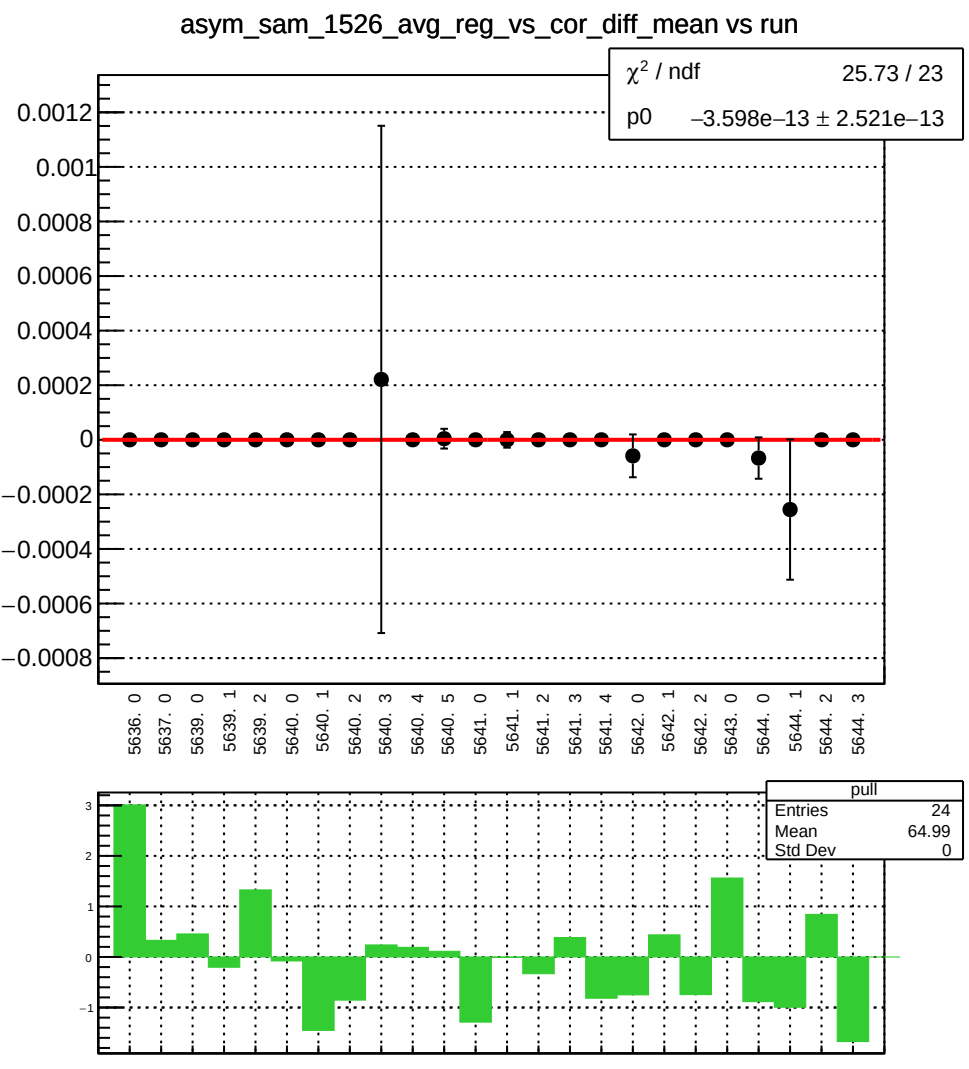


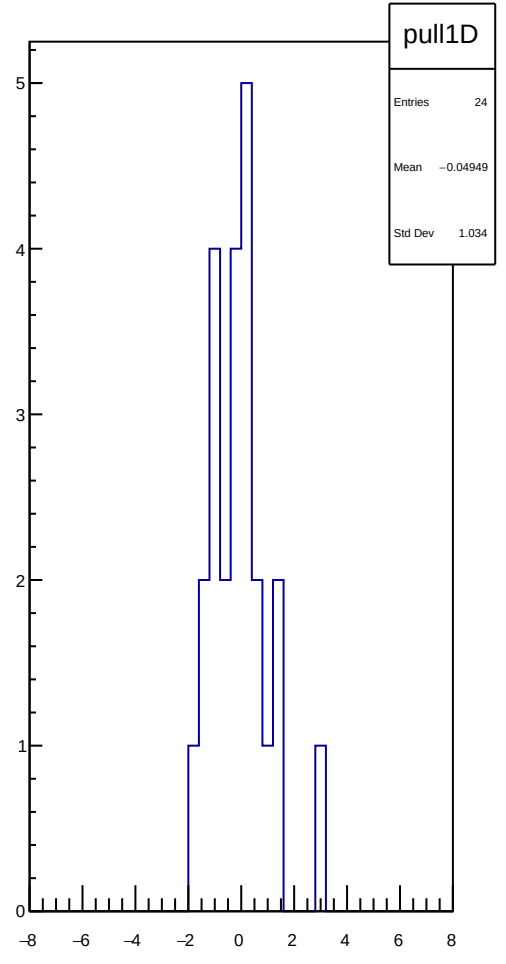


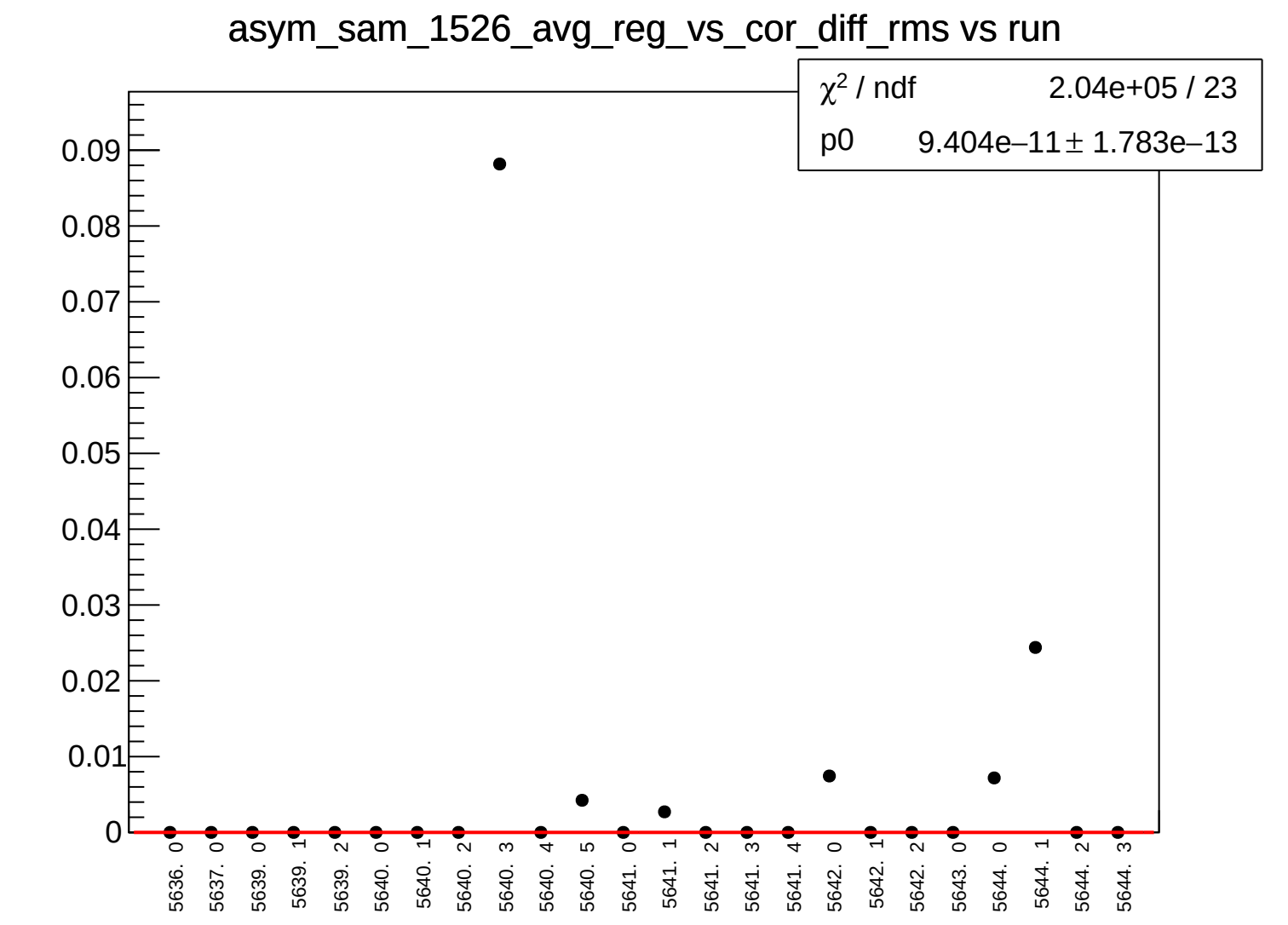

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 995.6 / 23
p0 1178 ± 1.698
1300
1250
1200
1150
1100
1050
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

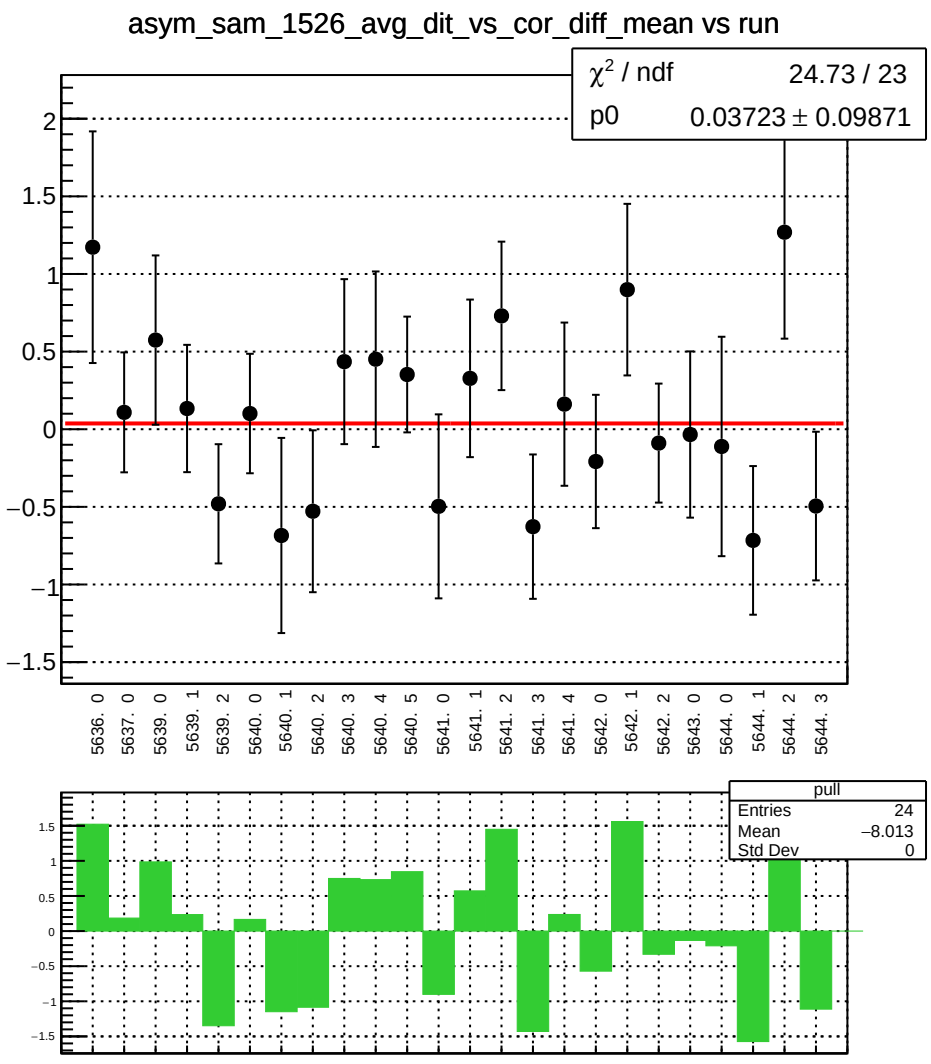

asym_sam_1526_avg_mean vs run
χ² / ndf 28.21 / 23
p0 1136 ± 2386
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 14.46
Std Dev 21.45
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.04547
Std Dev 1.083
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

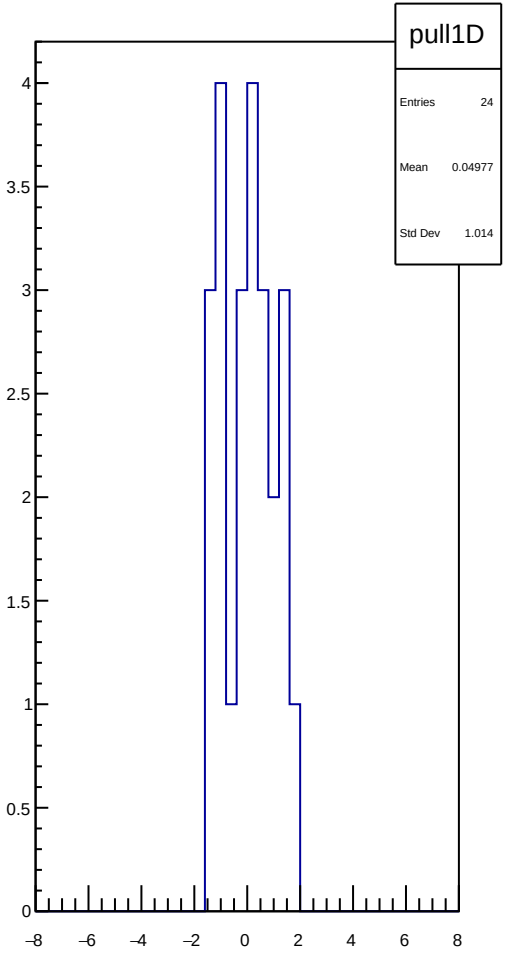

asym_sam_1526_avg_rms vs run
χ² / ndf 1339 / 23
p0 1170 ± 1.687
1300
1250
1200
1150
1100
1050
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

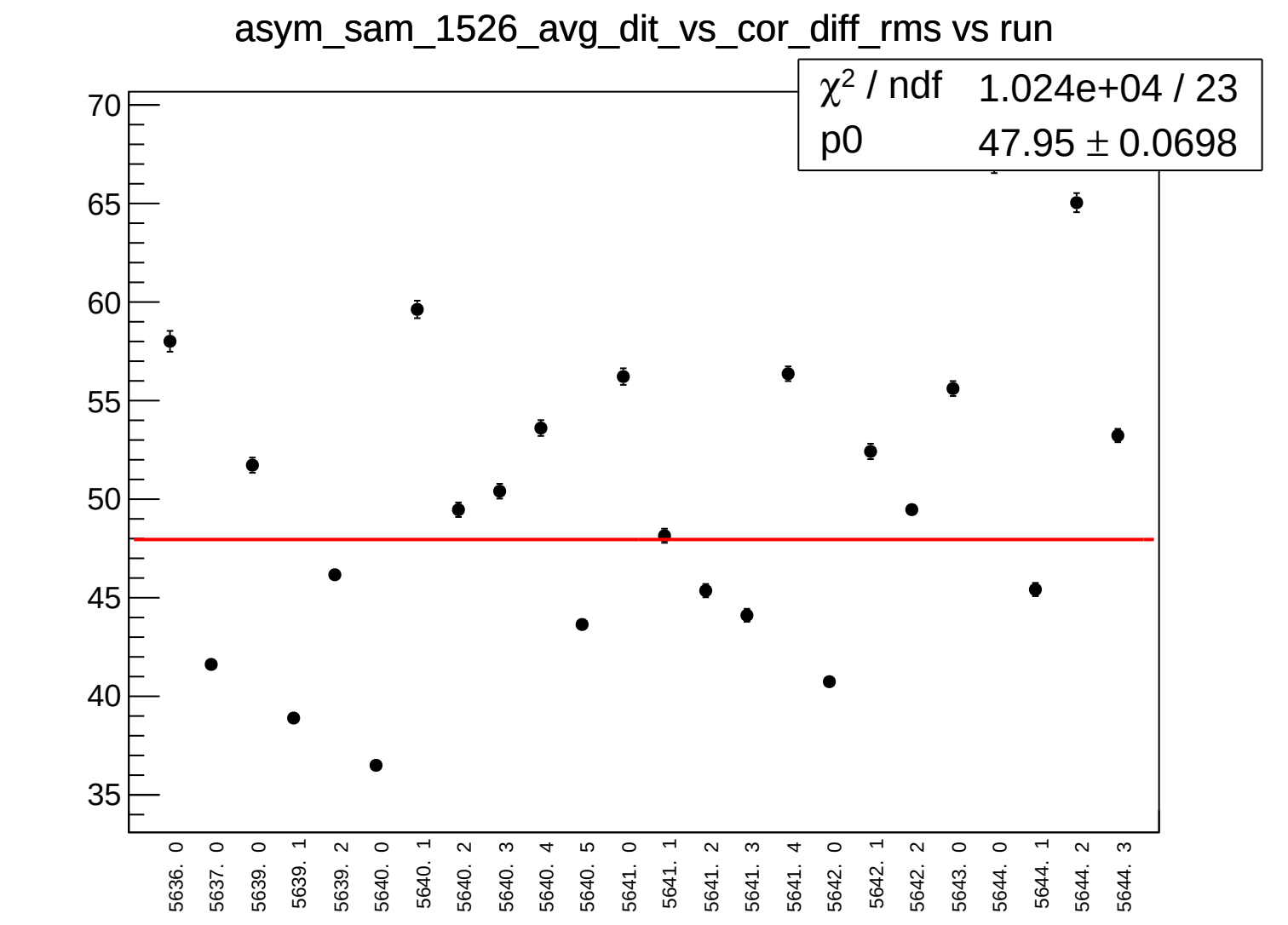

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 25.73 / 23
p0 −3.598e−13 ± 2.521e−13
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 64.99
Std Dev 0
3
2
1
0
−1

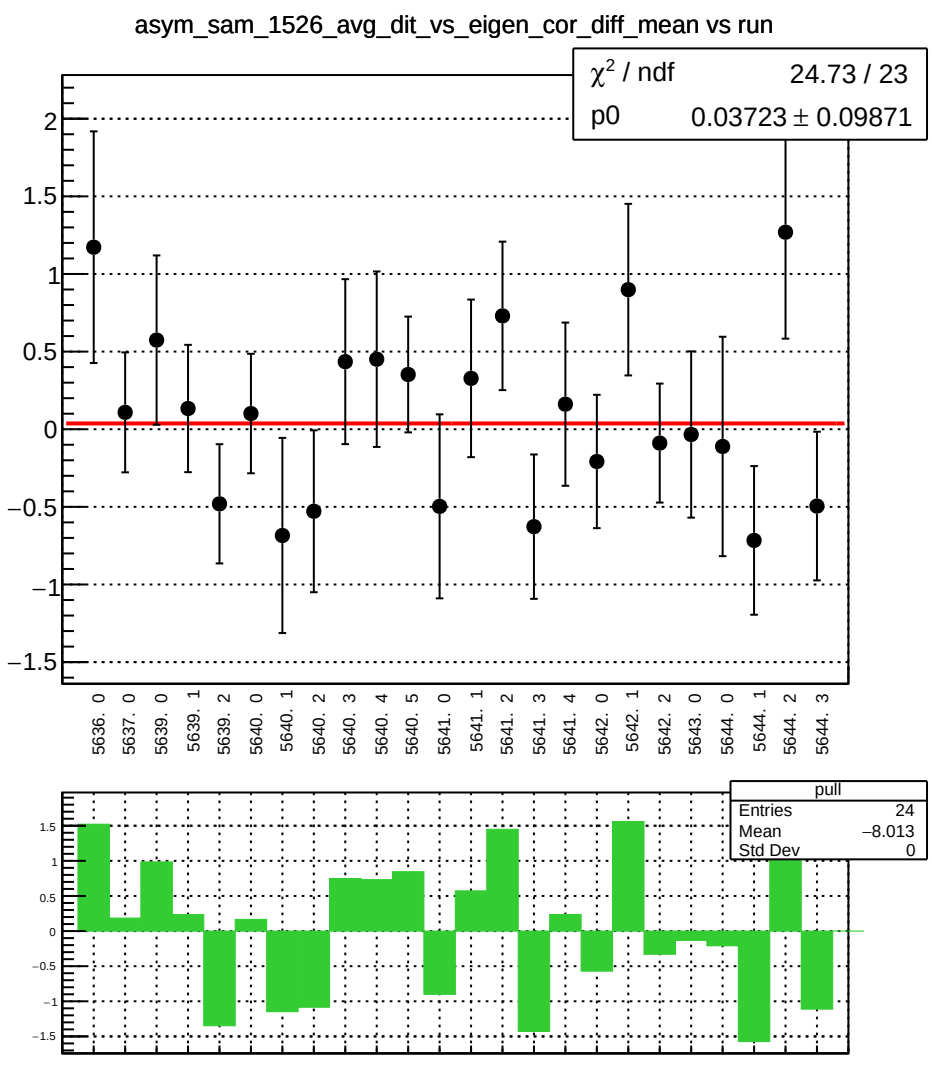

pull1D
Entries 24
Mean −0.04949
Std Dev 1.034
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

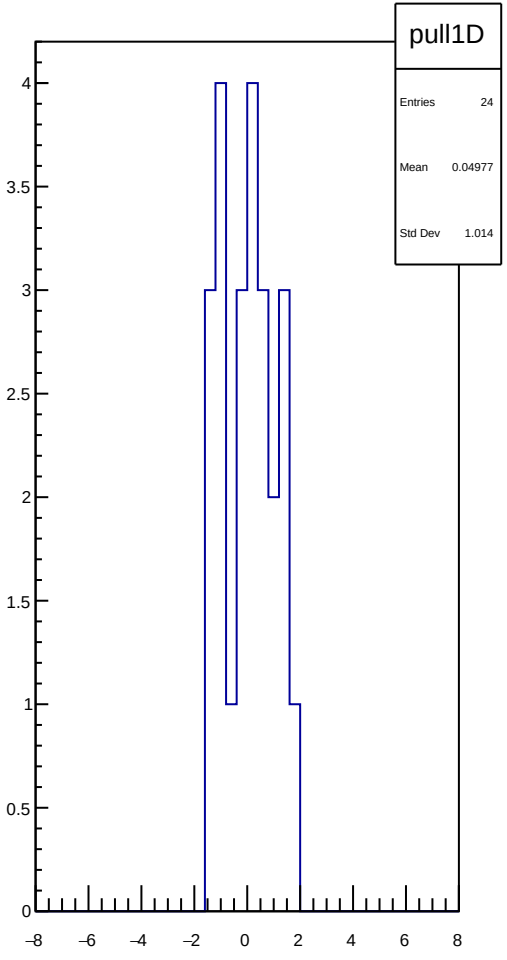

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.04e+05 / 23
p0 9.404e−11 ± 1.783e−13
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

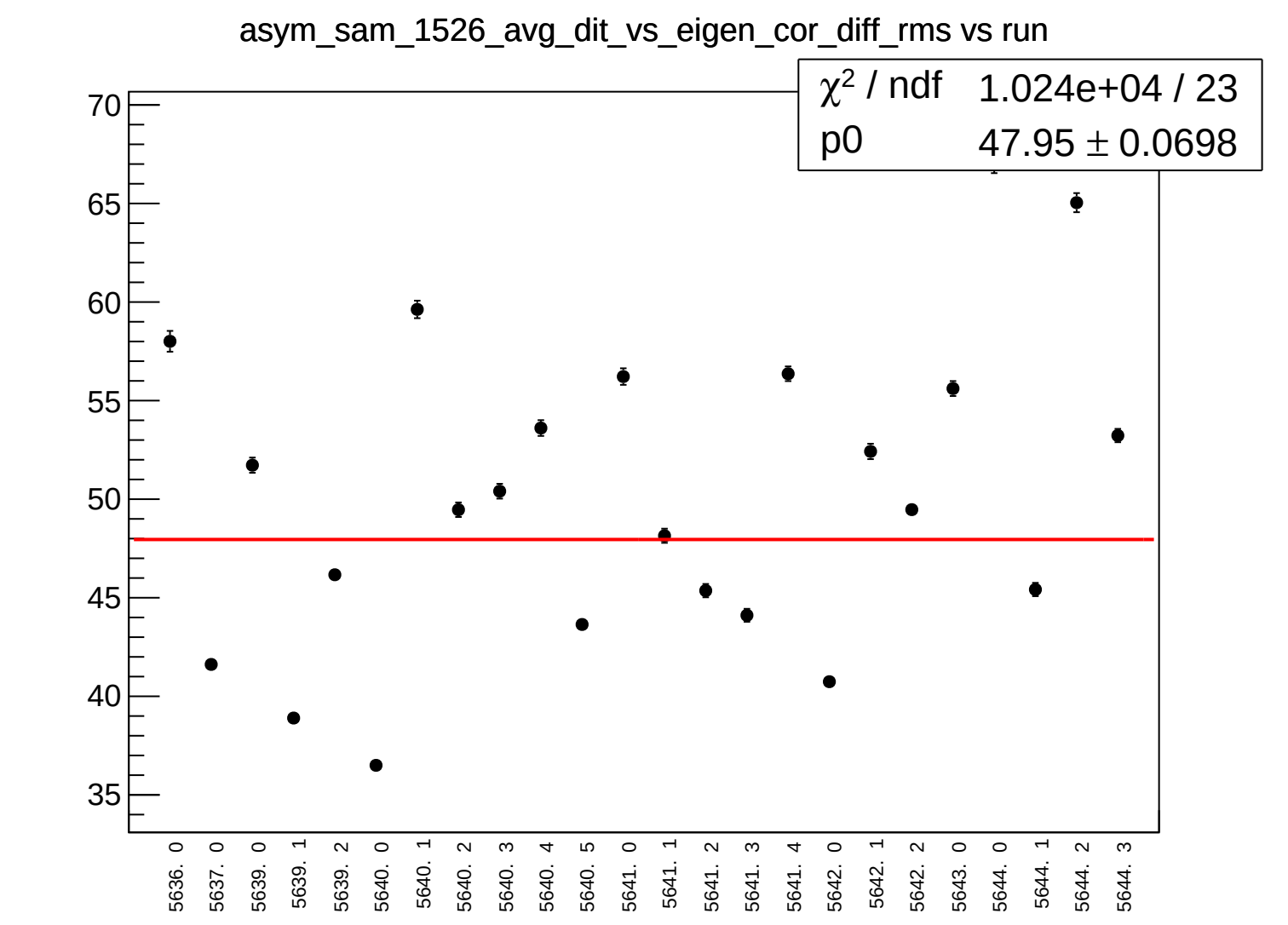

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 24.73 / 23
p0 0.03723 ± 0.09871
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −8.013
Std Dev 0

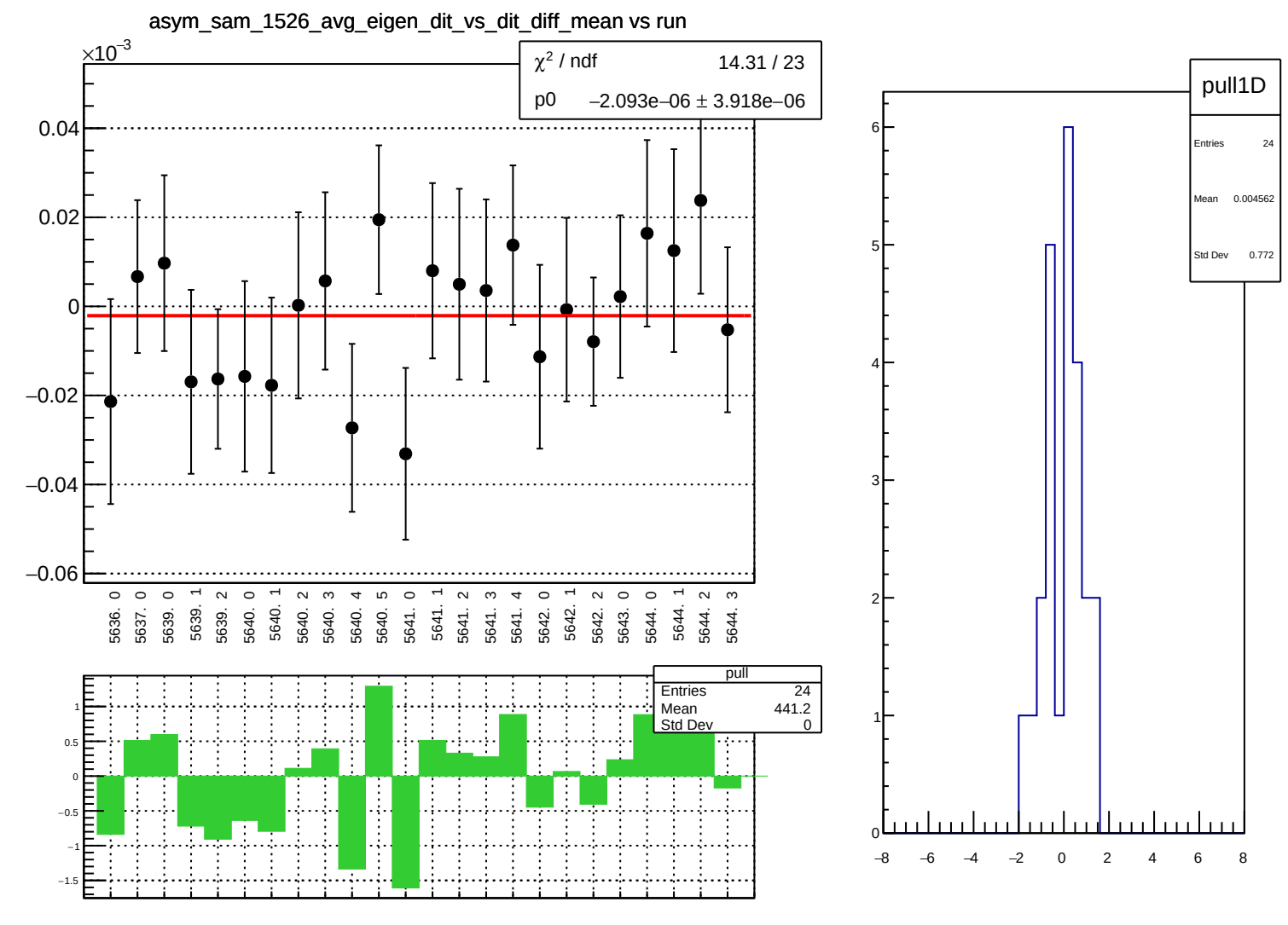

pull1D
Entries 24
Mean 0.04977
Std Dev 1.014

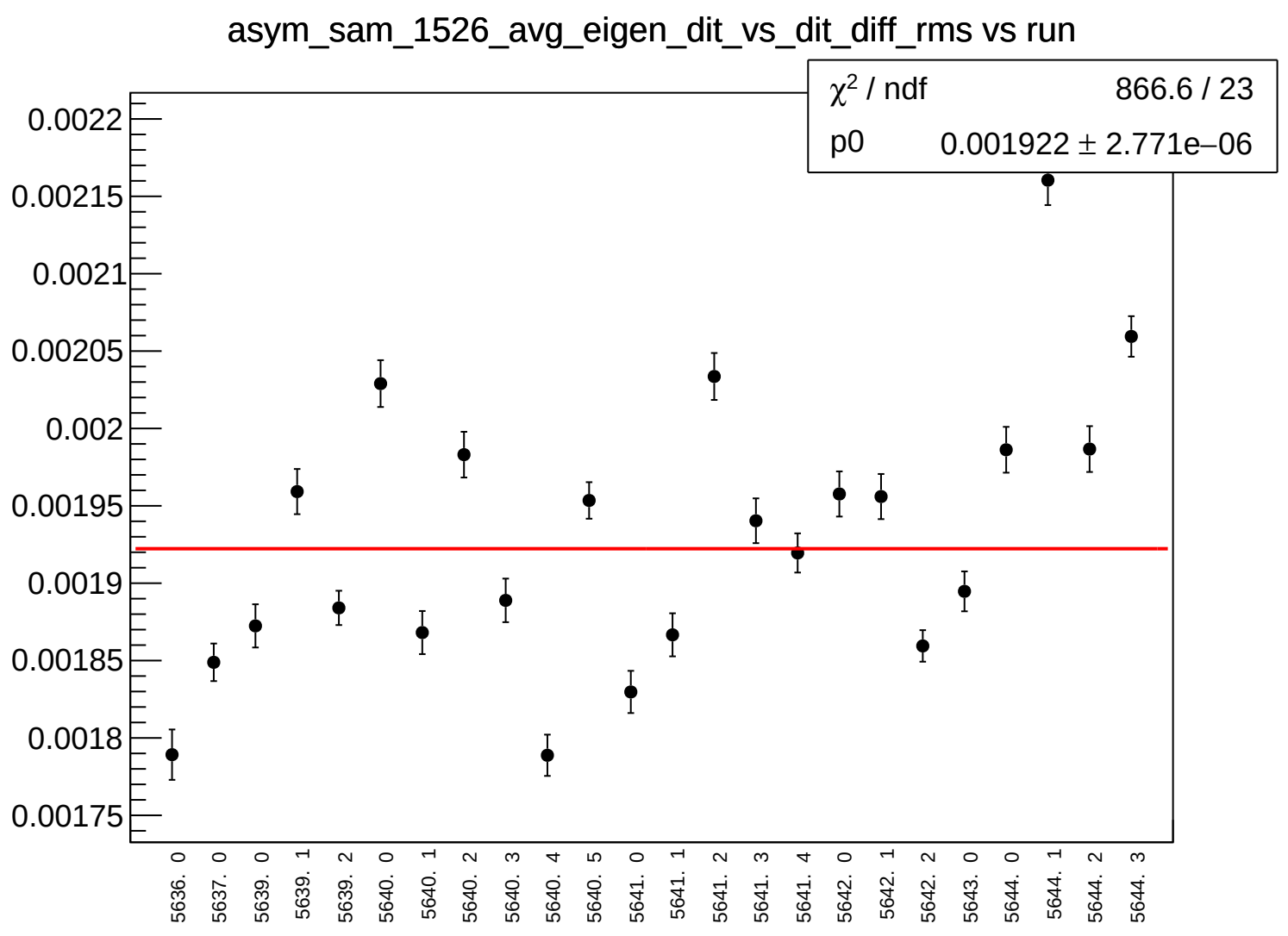

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.024e+04 / 23
p0 47.95 ± 0.0698
70
65
60
55
50
45
40
35
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

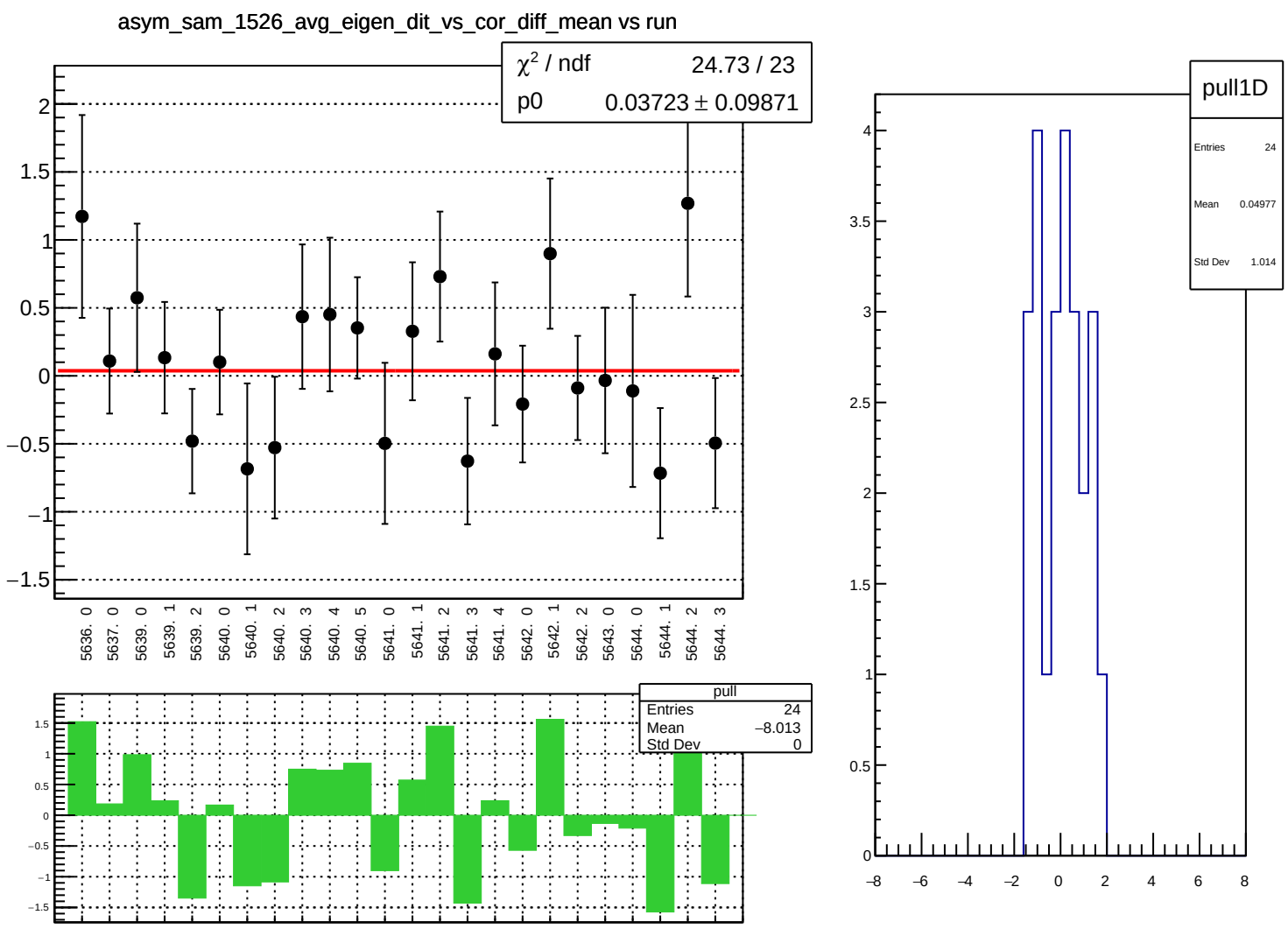

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.73 / 23
p0 0.03723 ± 0.09871
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −8.013
Std Dev 0

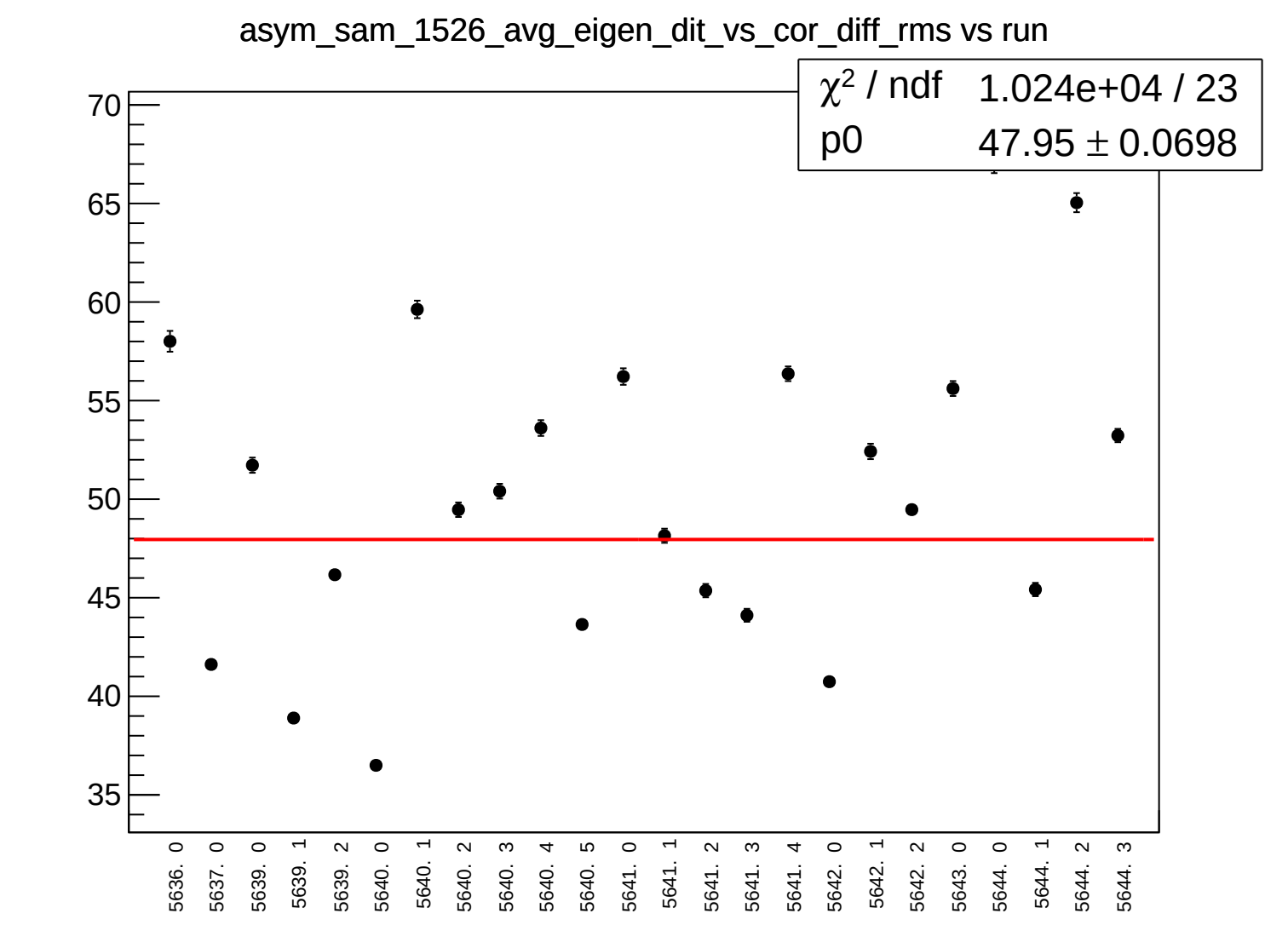

pull1D
Entries 24
Mean 0.04977
Std Dev 1.014


asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.024e+04 / 23
p0 47.95 ± 0.0698
70
65
60
55
50
45
40
35
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 14.31 / 23
p0 −2.093e−06 ± 3.918e−06
0.04
0.02
0
−0.02
−0.04
−0.06
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 441.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.004562
Std Dev 0.772
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 866.6 / 23
p0 0.001922 ± 2.771e−06
0.0022
0.00215
0.0021
0.00205
0.002
0.00195
0.0019
0.00185
0.0018
0.00175
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 24.73 / 23
p0 0.03723 ± 0.09871
2
1.5
1
0.5
0
−0.5
−1
−1.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −8.013
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.04977
Std Dev 1.014
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.024e+04 / 23
p0 47.95 ± 0.0698
70
65
60
55
50
45
40
35
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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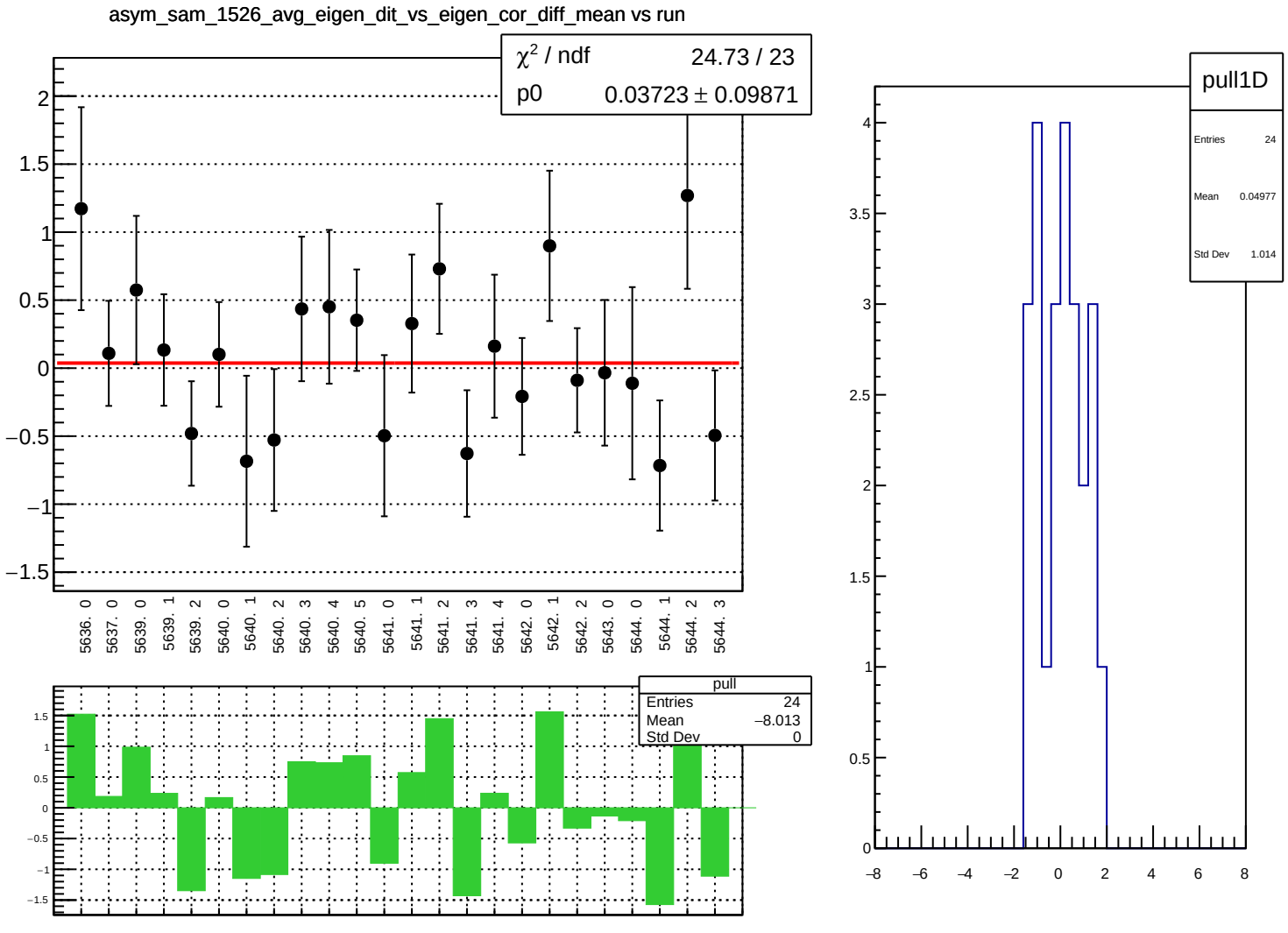
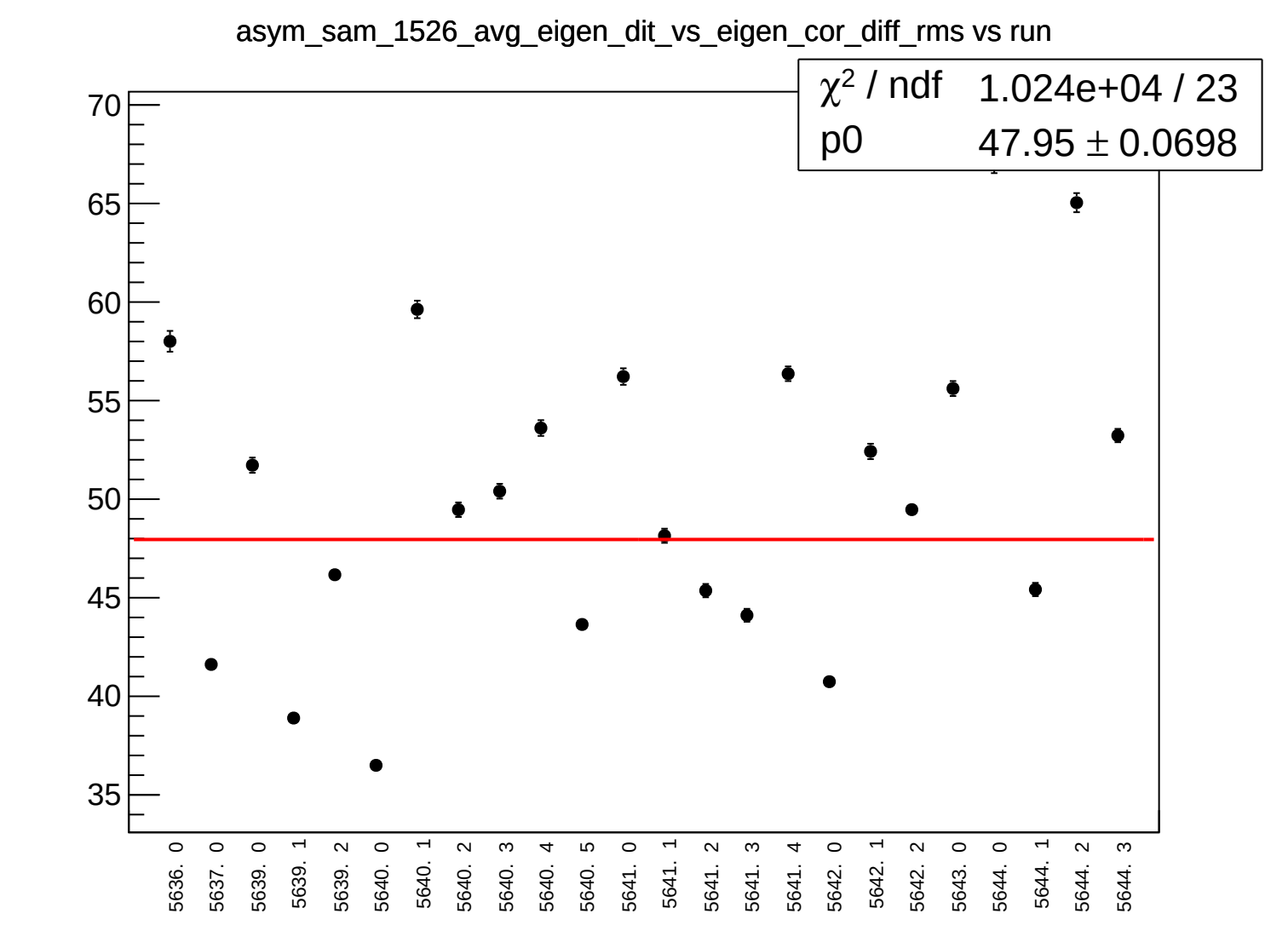
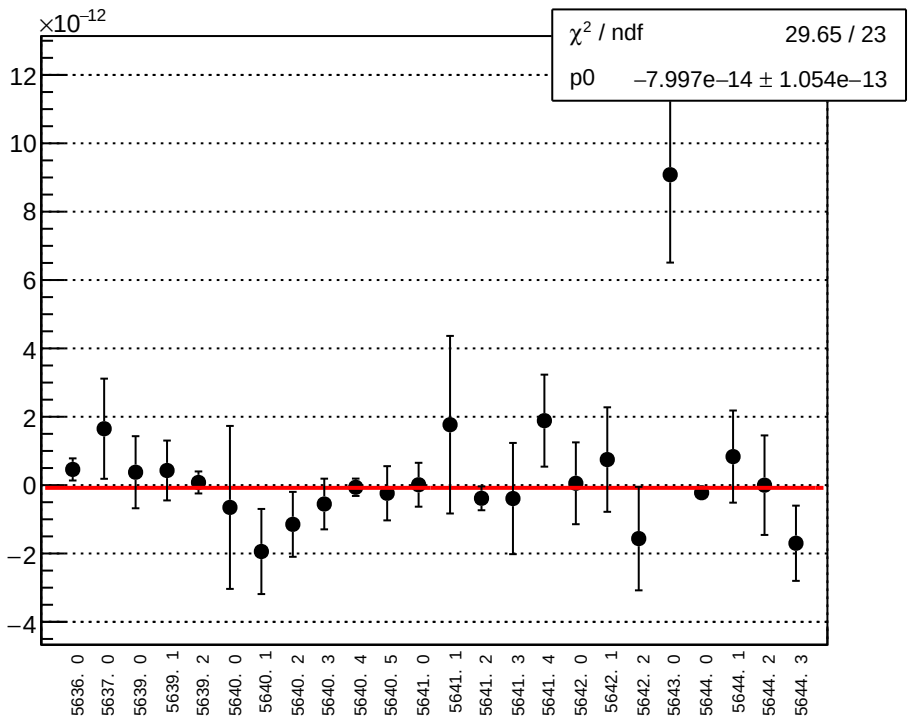
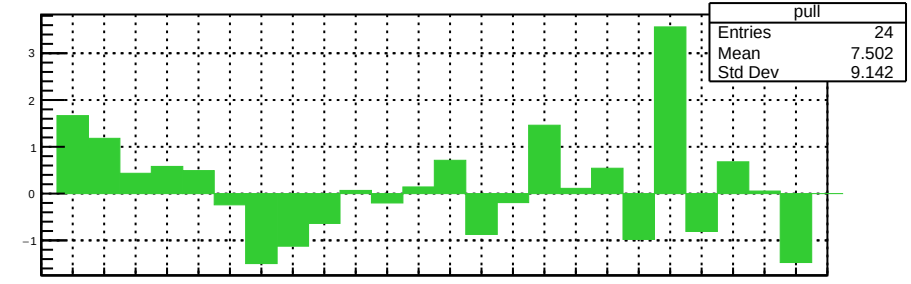
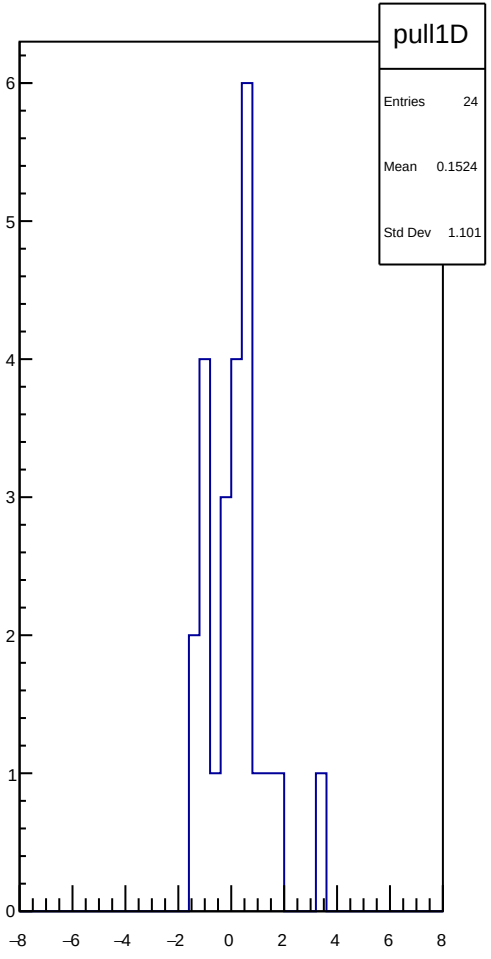
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

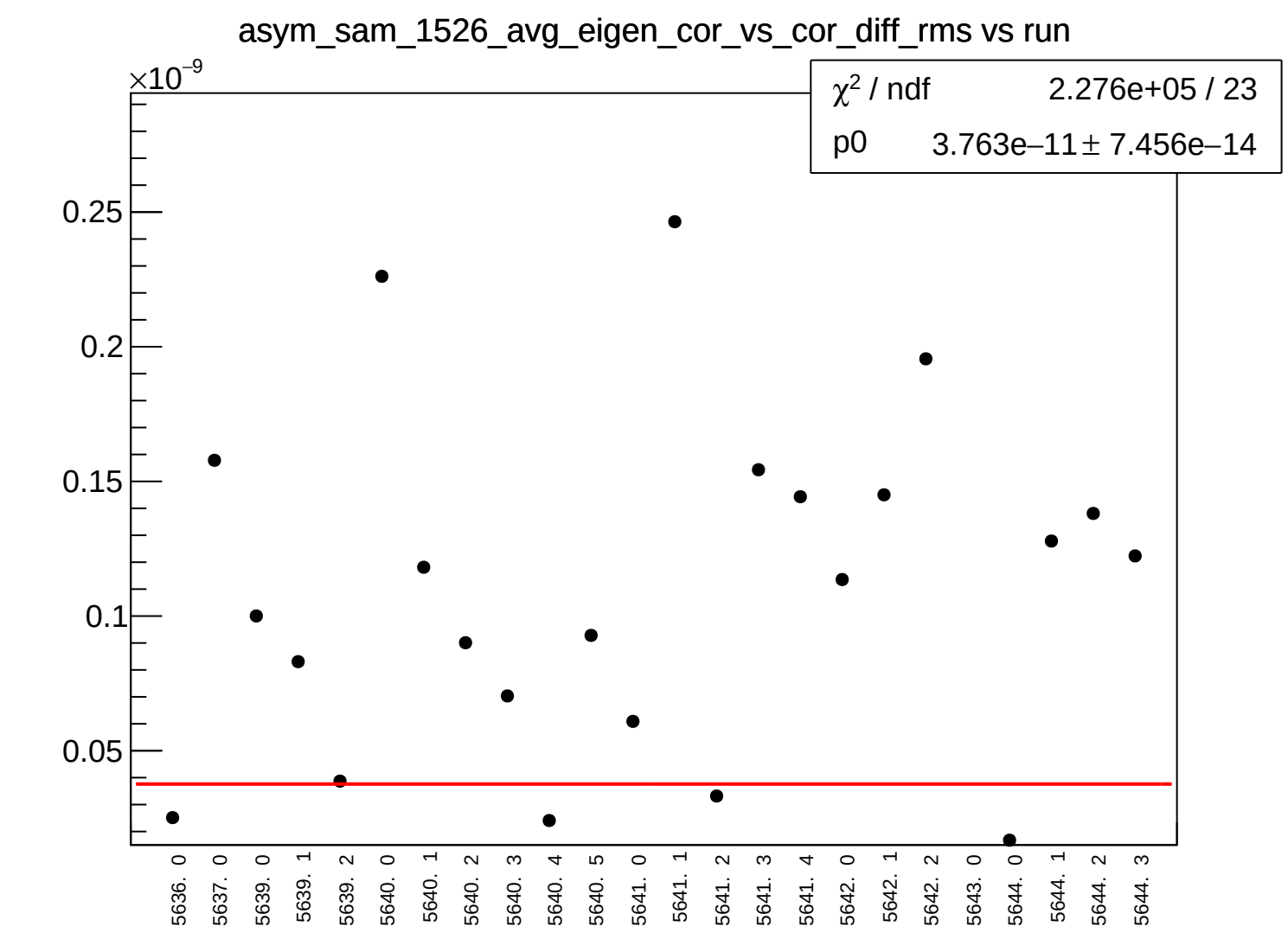

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.73 / 23
p0 0.03723 ± 0.09871
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −8.013
Std Dev 0
pull1D
Entries 24
Mean 0.04977
Std Dev 1.014

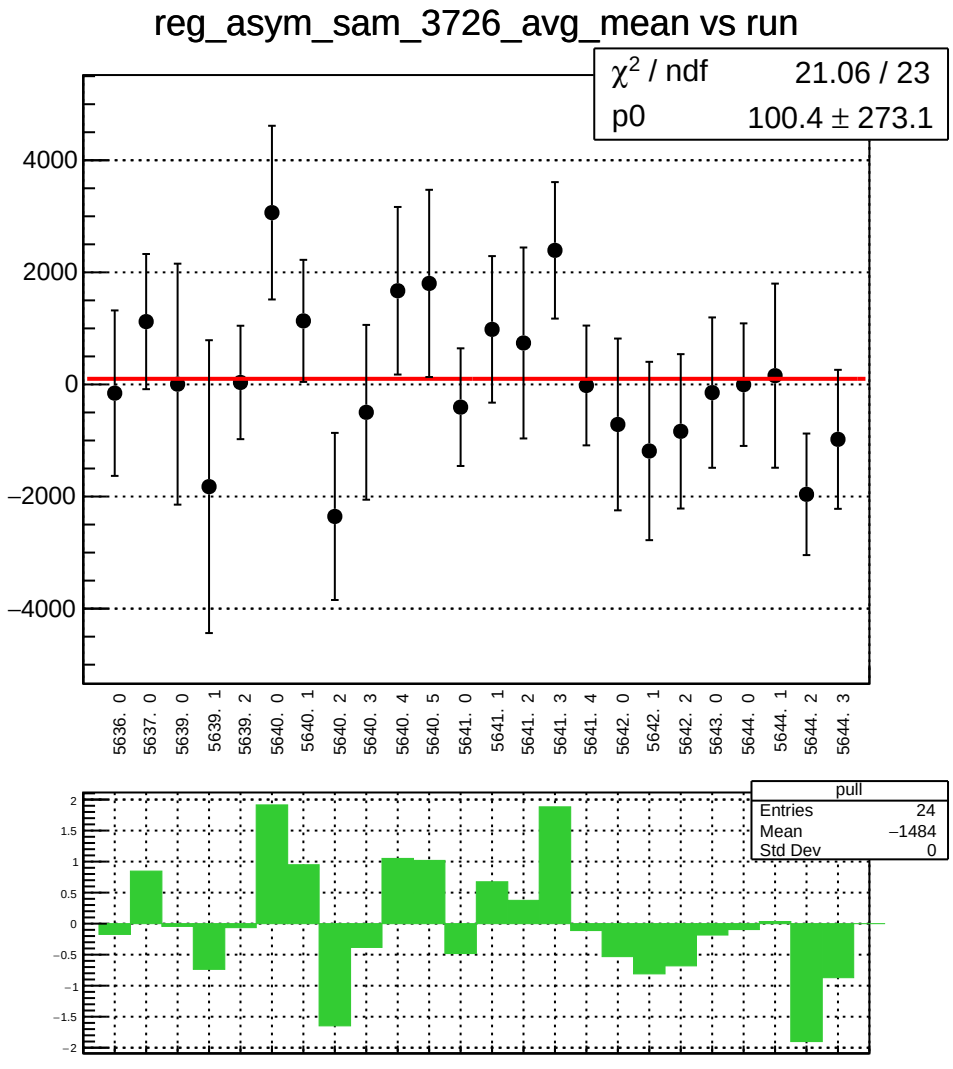

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.024e+04 / 23
p0 47.95 ± 0.0698
70
65
60
55
50
45
40
35
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

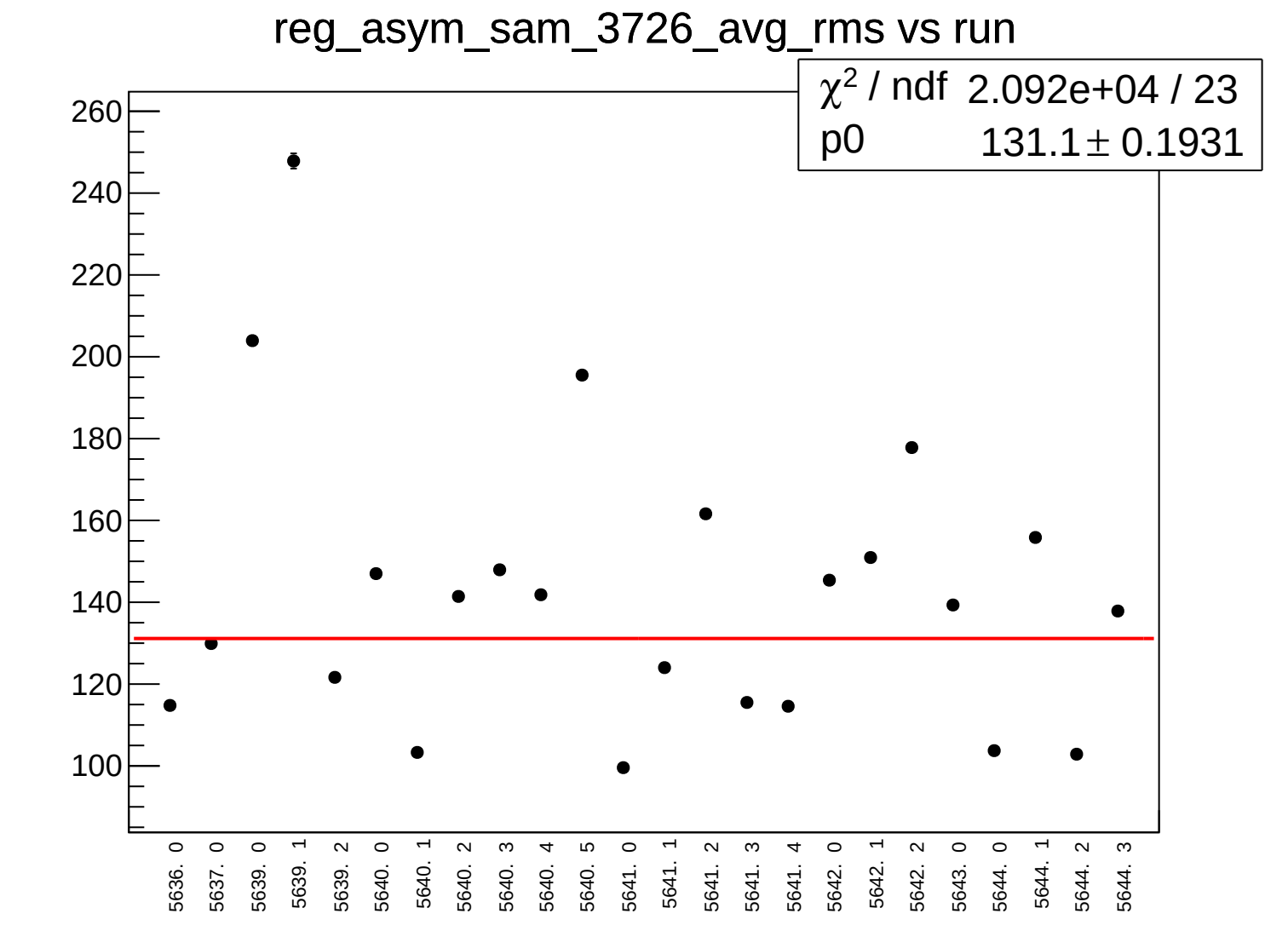

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 29.65 / 23
p0 −7.997e−14 ± 1.054e−13
12
10
8
6
4
2
0
−2
−4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

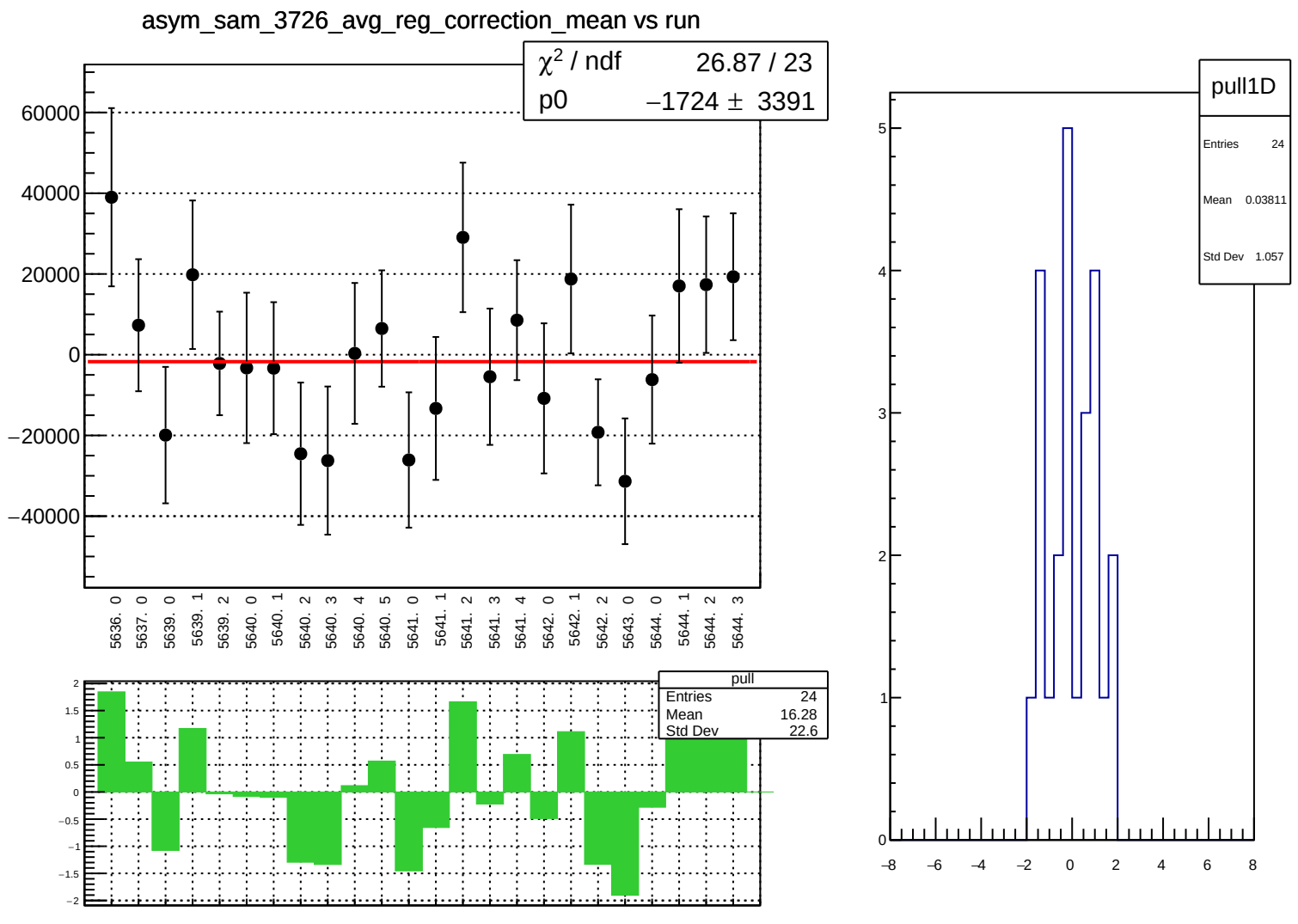

pull
Entries 24
Mean 7.502
Std Dev 9.142
3
2
1
0
−1

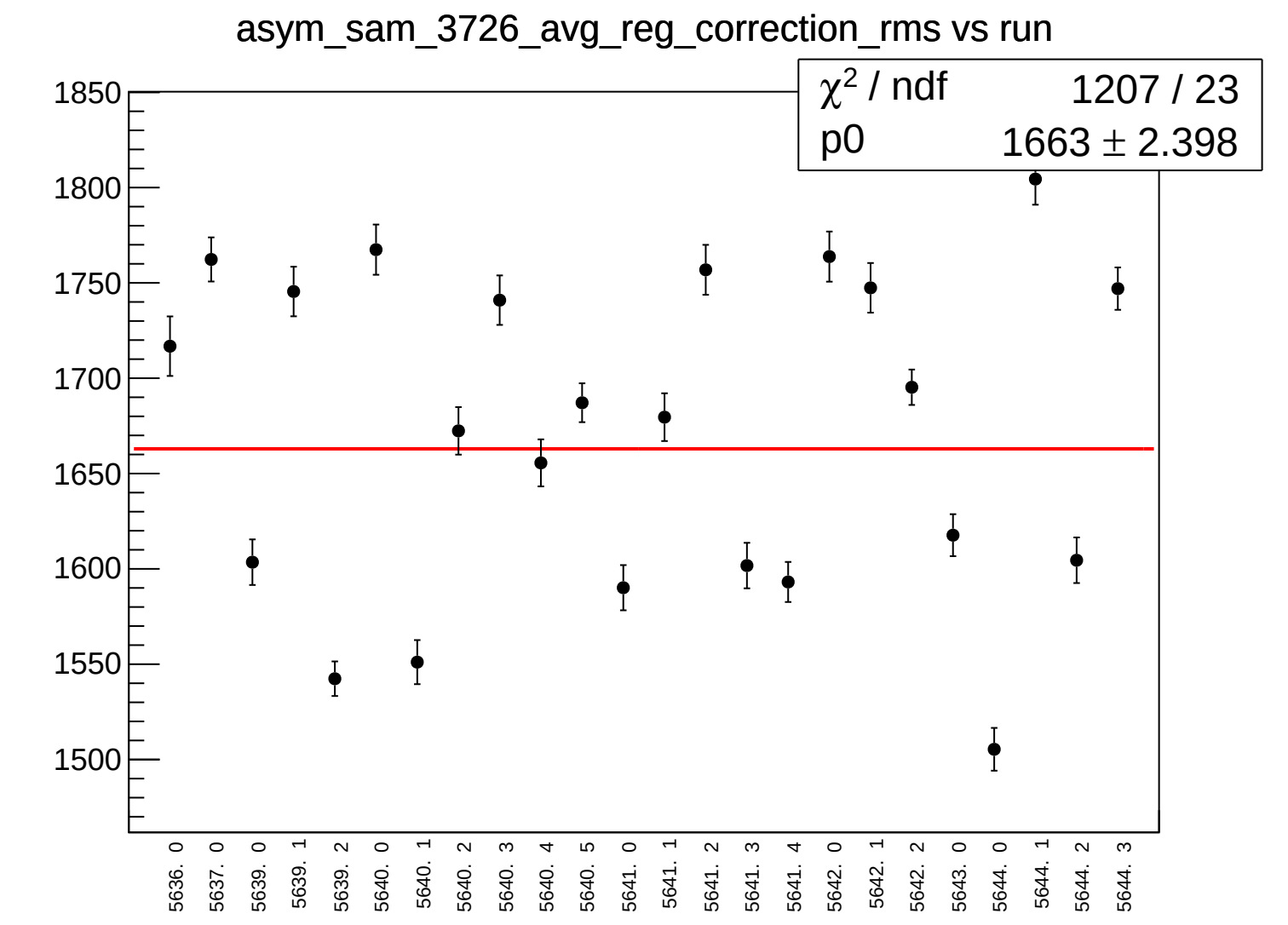

pull1D
Entries 24
Mean 0.1524
Std Dev 1.101
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

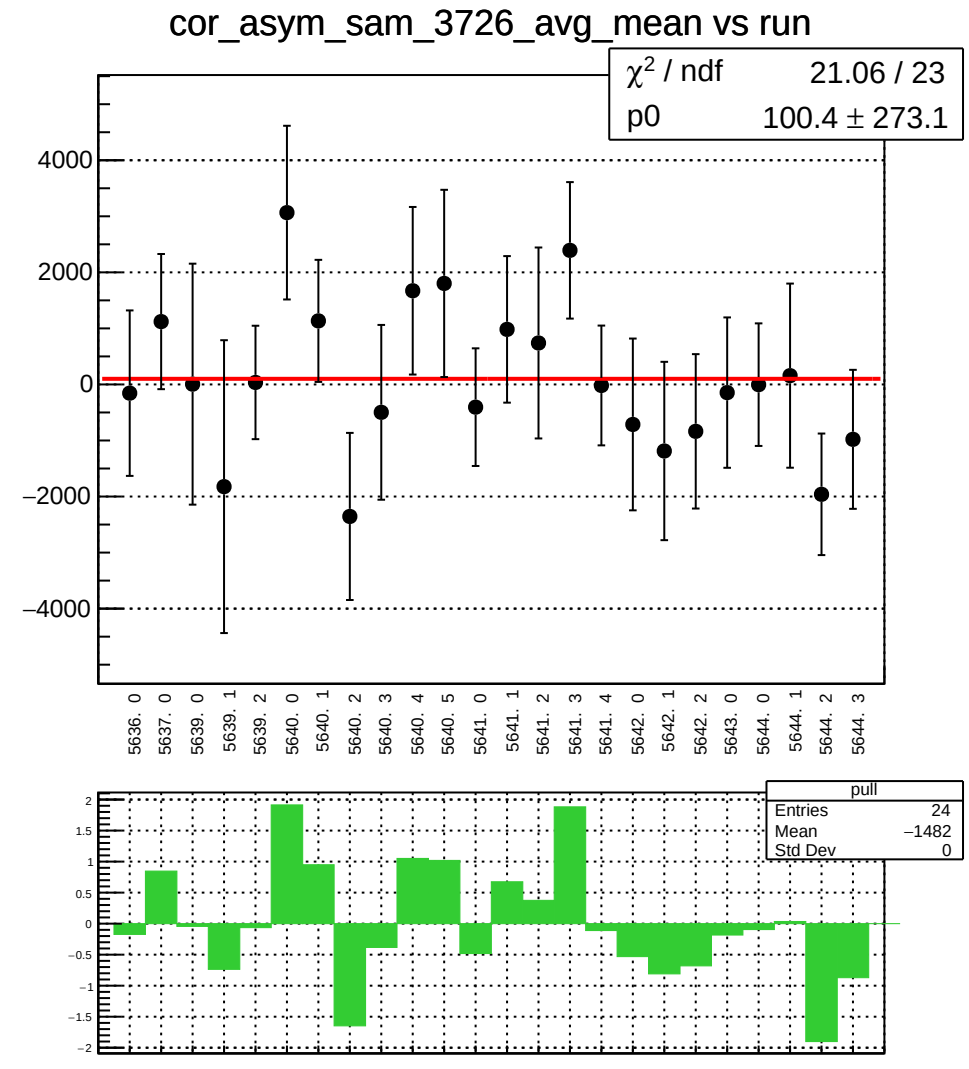

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.276e+05 / 23
p0 3.763e−11 ± 7.456e−14
0.25
0.2
0.15
0.1
0.05
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

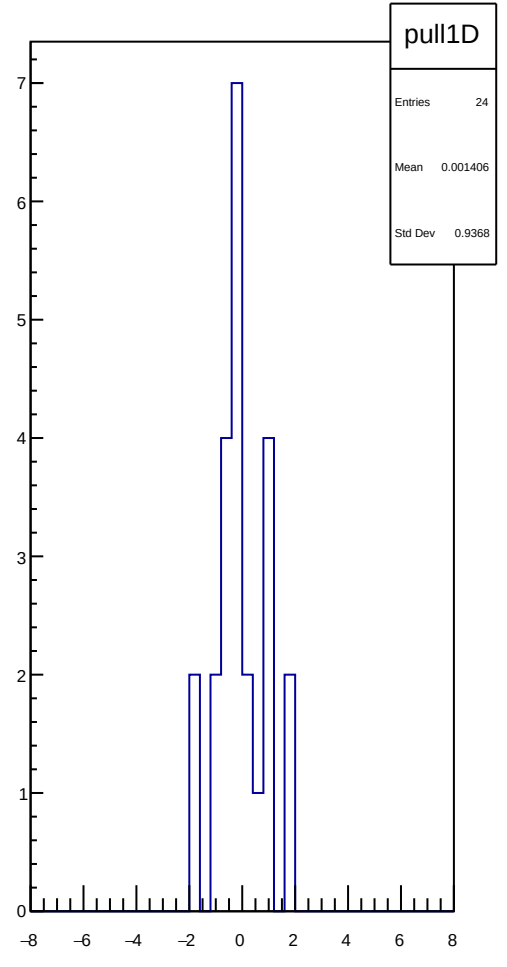

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 21.06 / 23
p0 100.4 ± 273.1
4000
2000
0
−2000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −1484
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.001405
Std Dev 0.9368
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

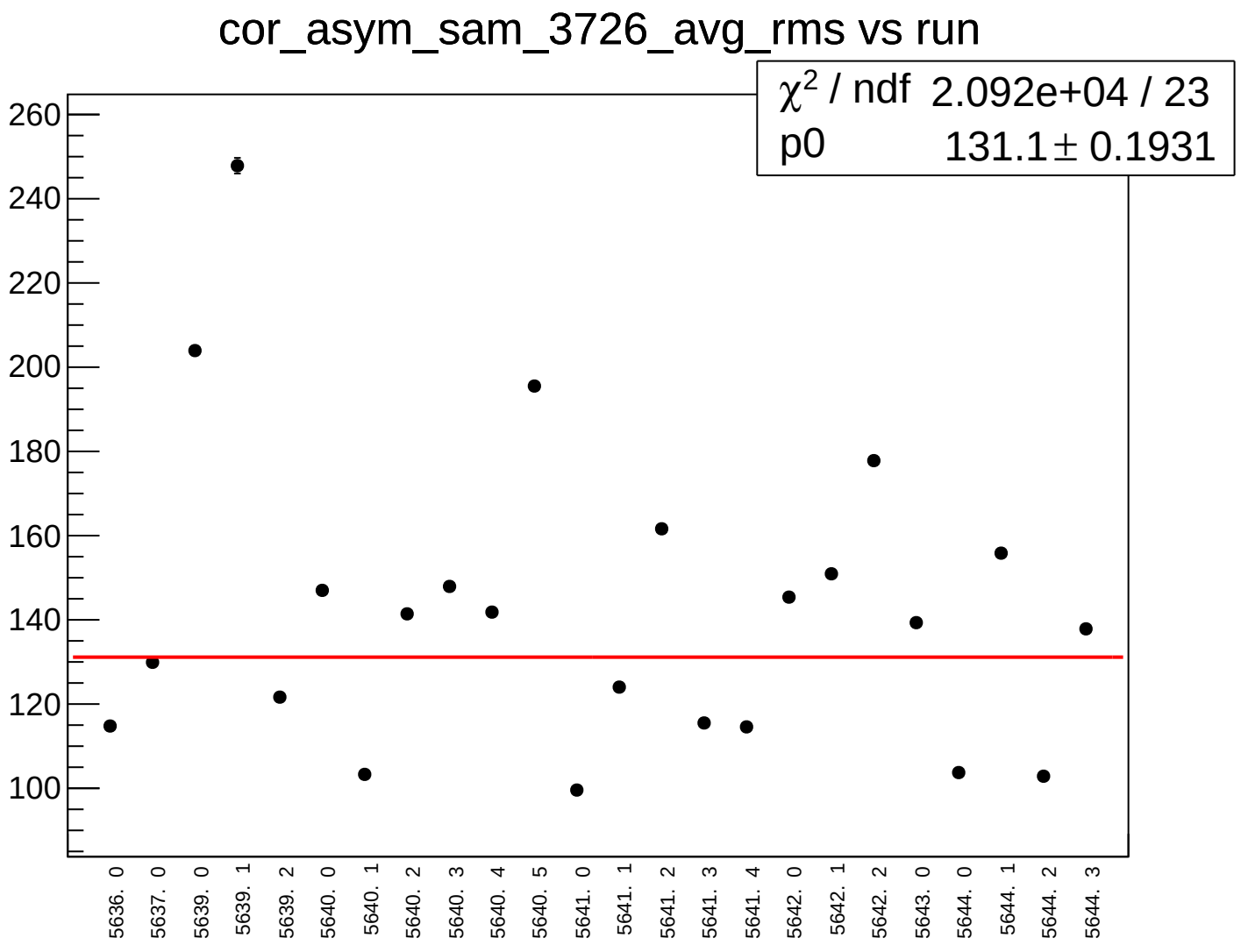

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 2.092e+04 / 23
p0 131.1 ± 0.1931
260
240
220
200
180
160
140
120
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

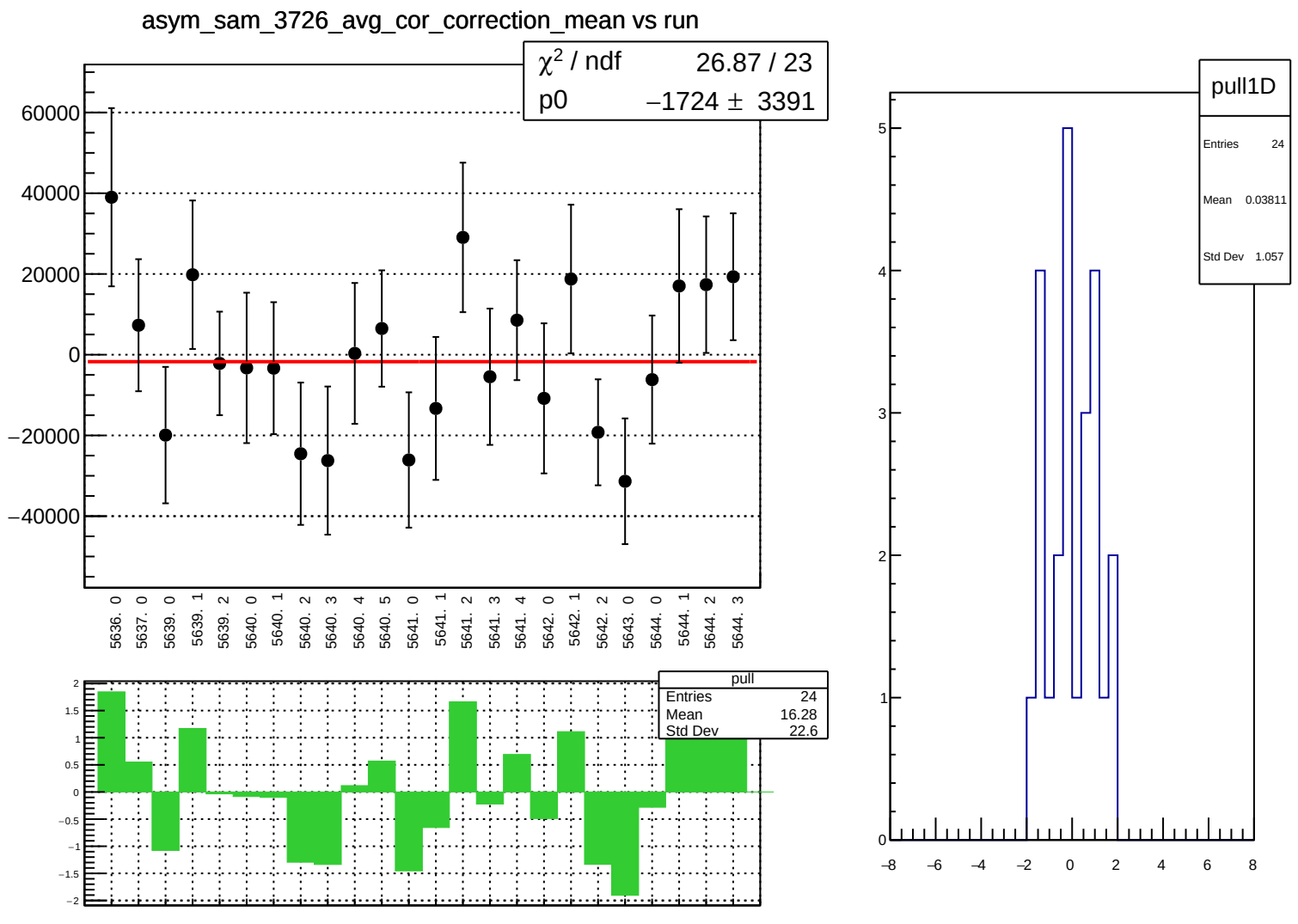

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 26.87 / 23
p0 −1724 ± 3391
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 16.28
Std Dev 22.6
pull1D
Entries 24
Mean 0.03811
Std Dev 1.057

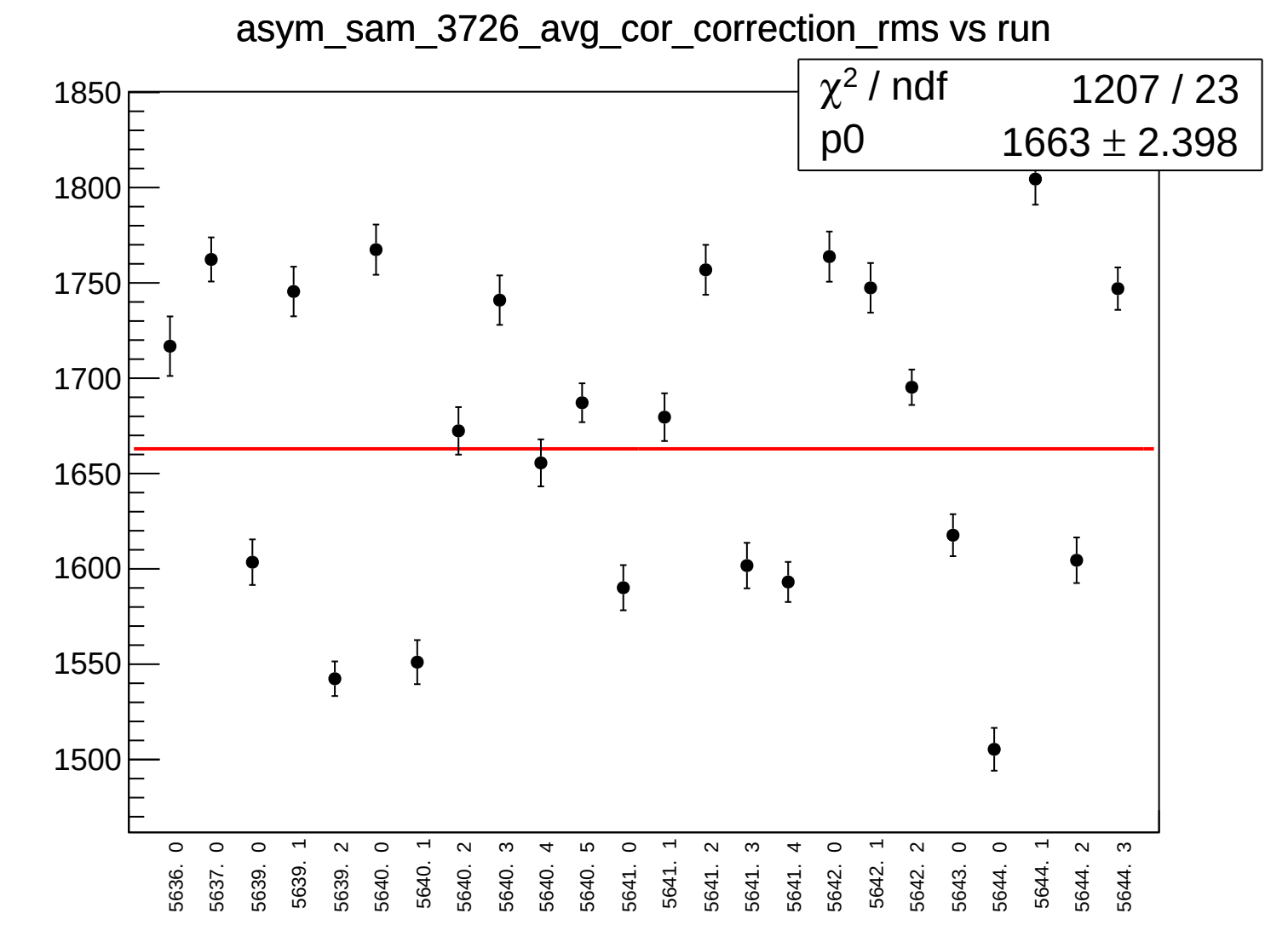

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 1207 / 23
p0 1663 ± 2.398
1850
1800
1750
1700
1650
1600
1550
1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

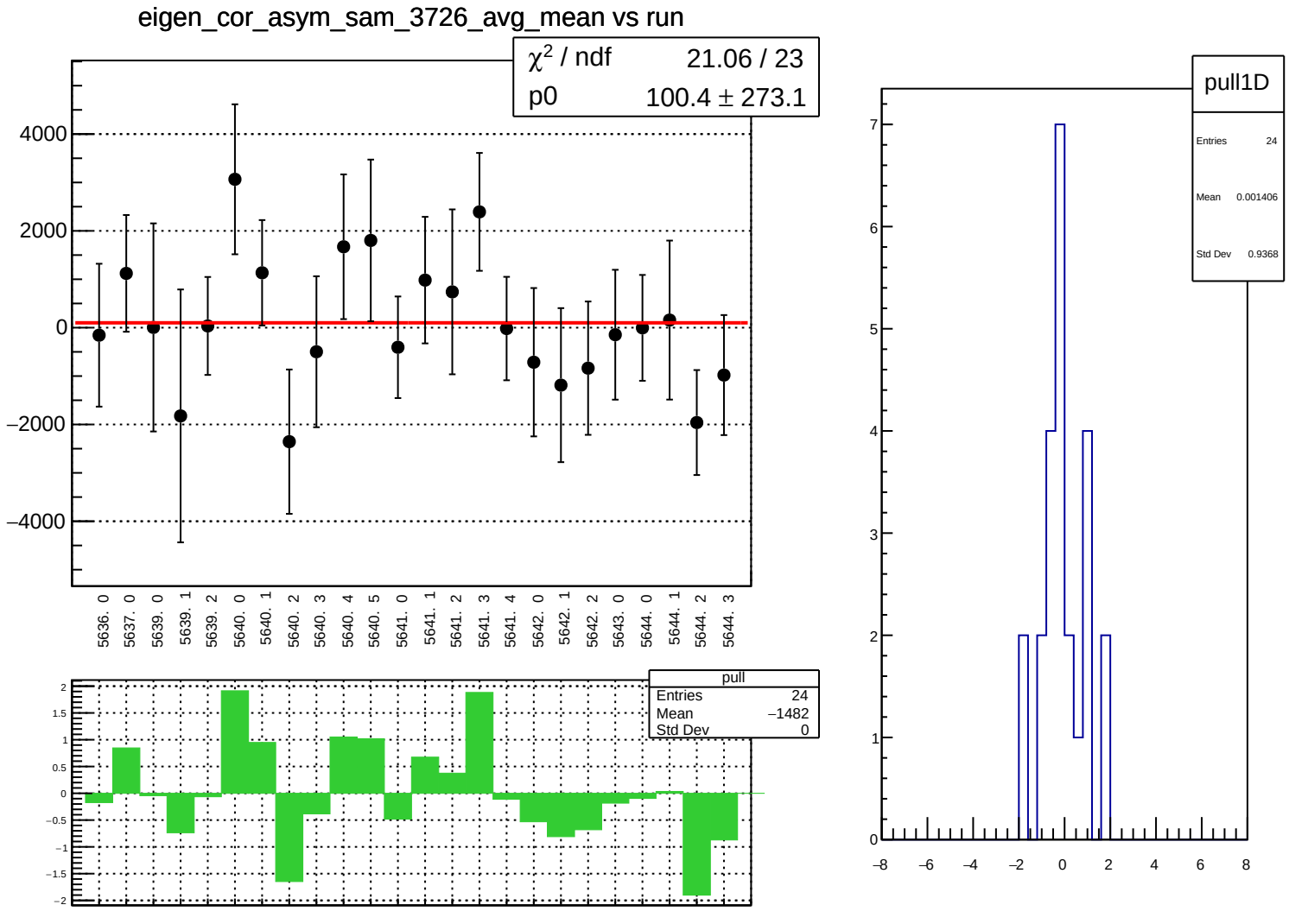

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 21.06 / 23
p0 100.4 ± 273.1
4000
2000
0
−2000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −1482
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

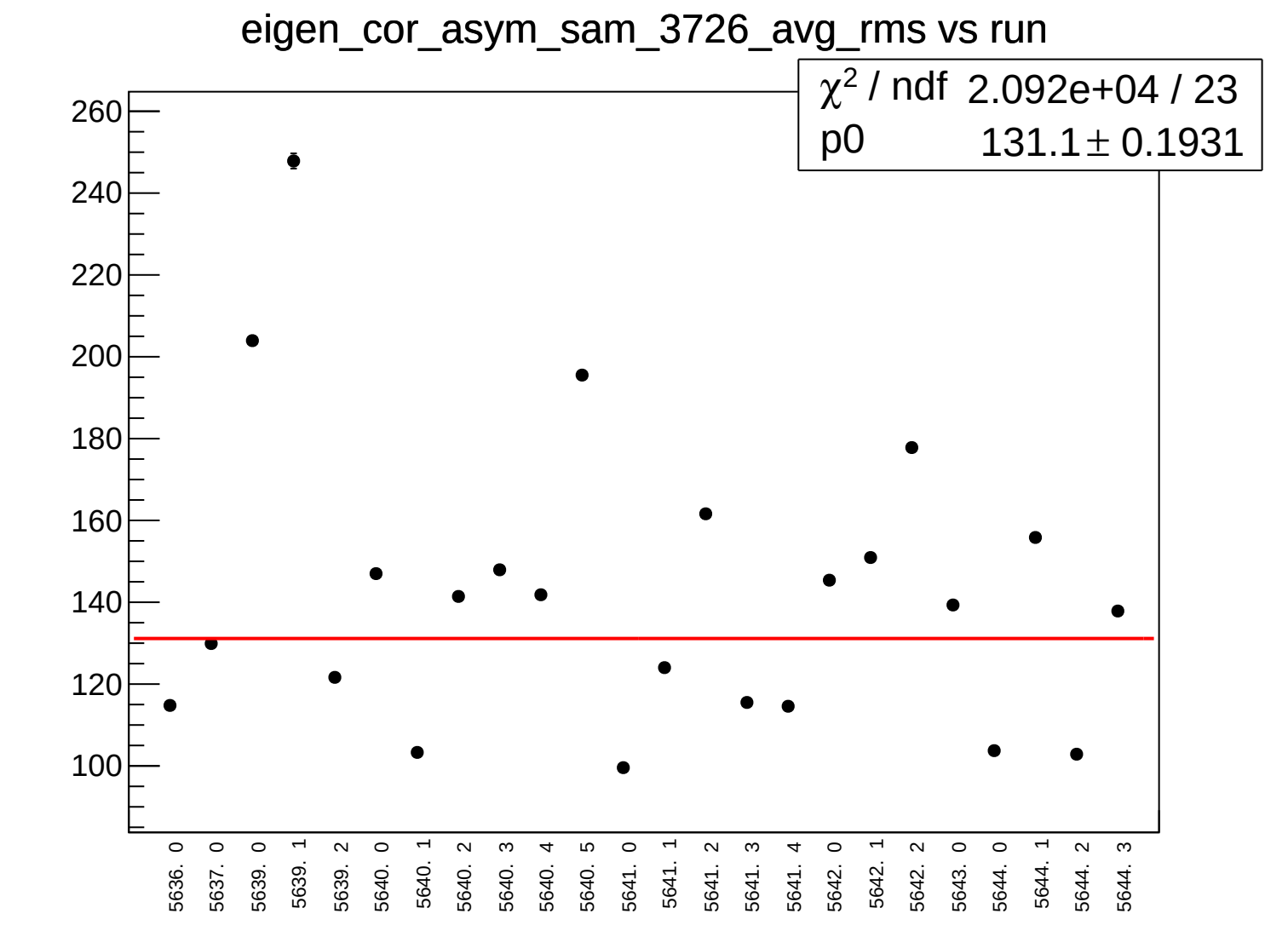

pull1D
Entries 24
Mean 0.001406
Std Dev 0.9368
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

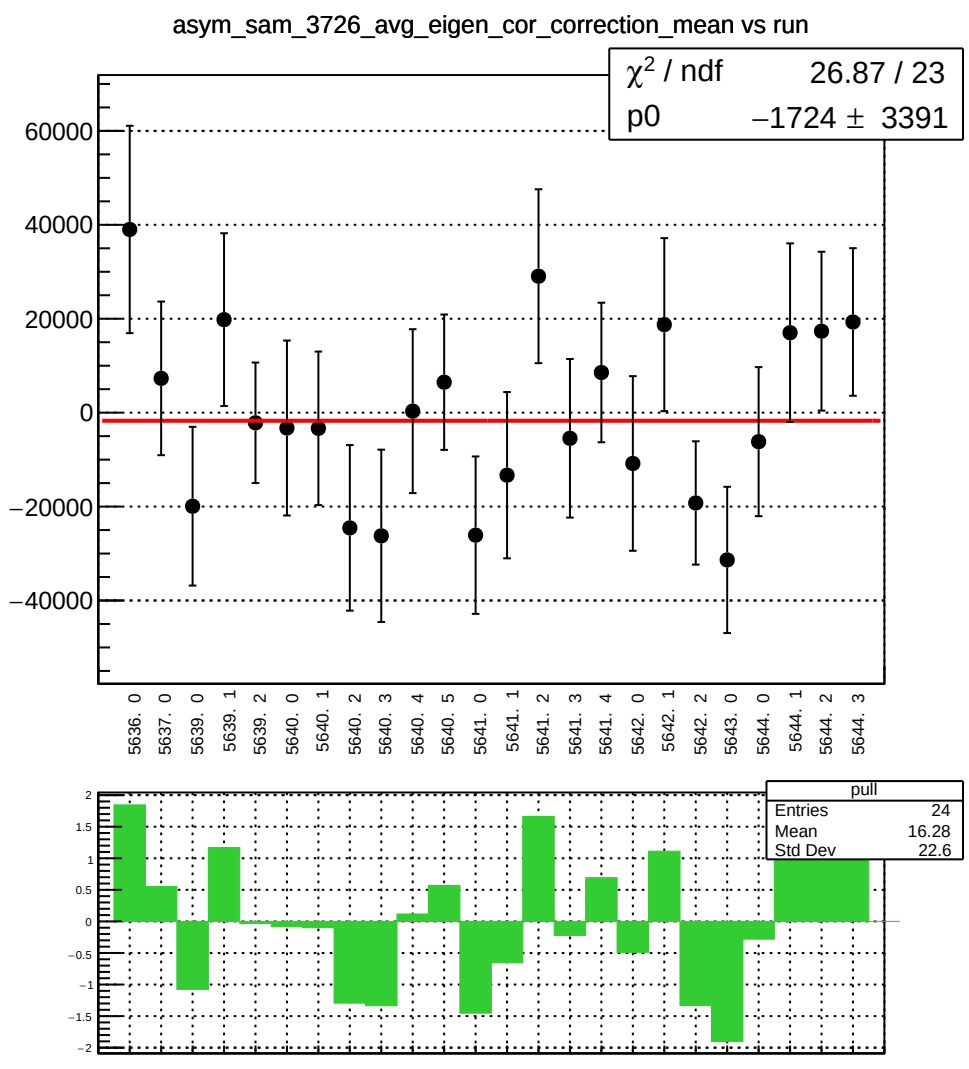

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 2.092e+04 / 23
p0 131.1 ± 0.1931
260
240
220
200
180
160
140
120
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

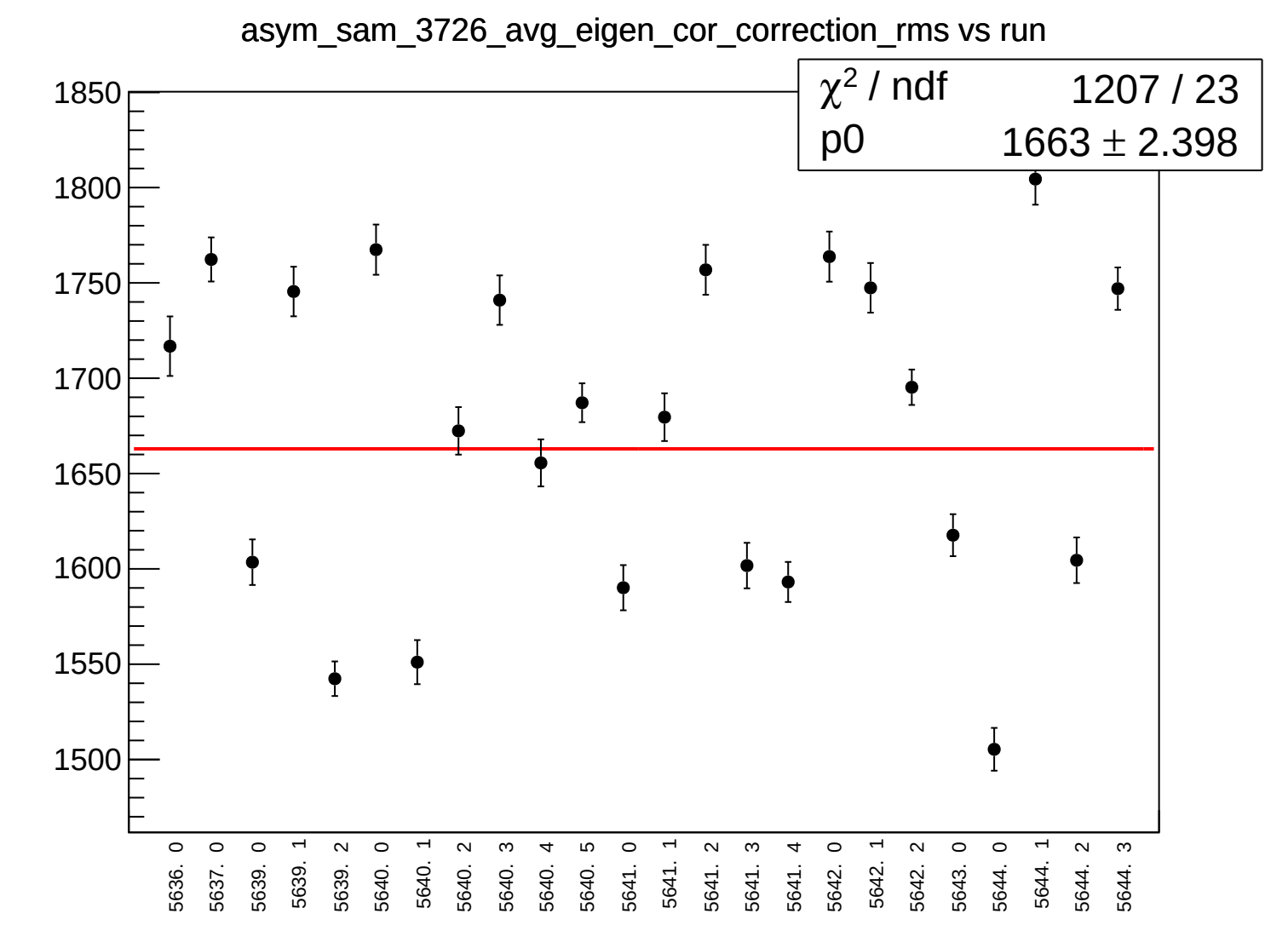

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 26.87 / 23
p0 −1724 ± 3391
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 16.28
Std Dev 22.6
pull1D
Entries 24
Mean 0.03811
Std Dev 1.057

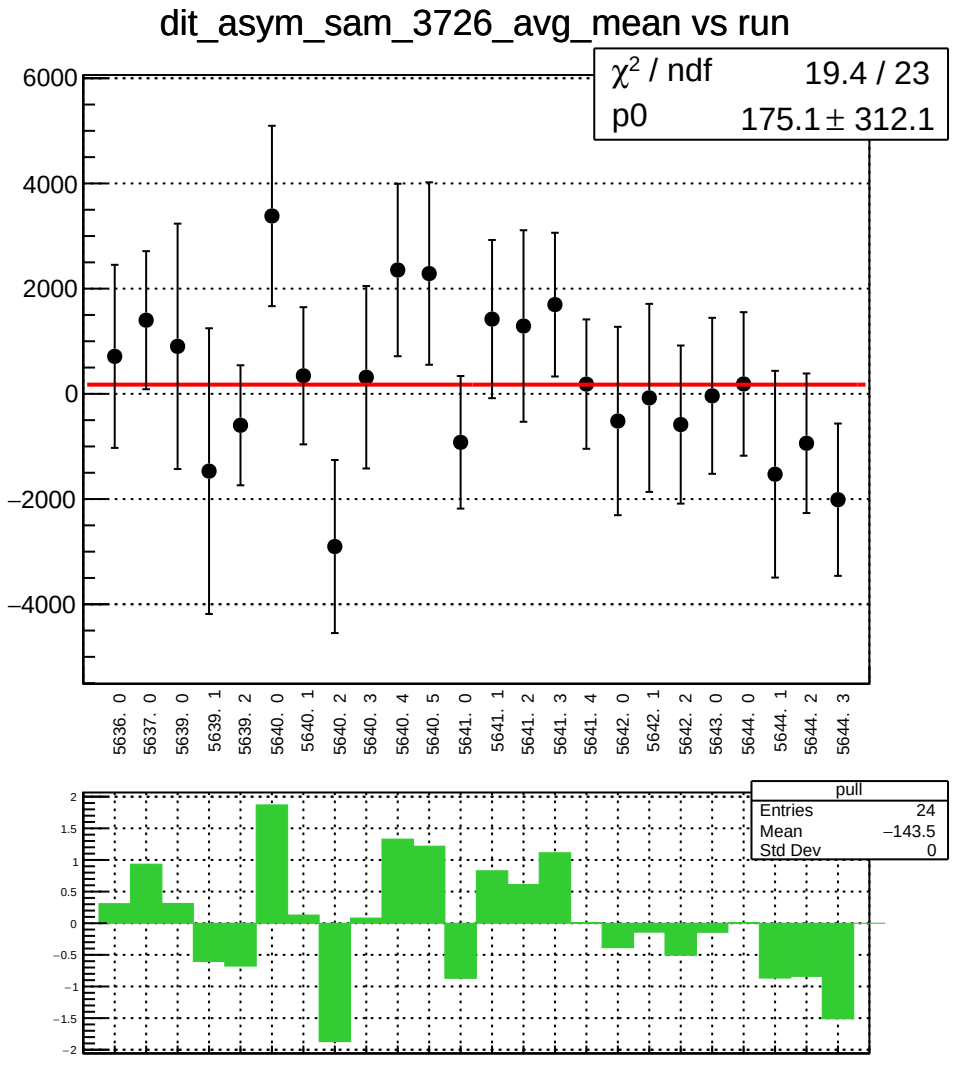

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 1207 / 23
p0 1663 ± 2.398
1850
1800
1750
1700
1650
1600
1550
1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

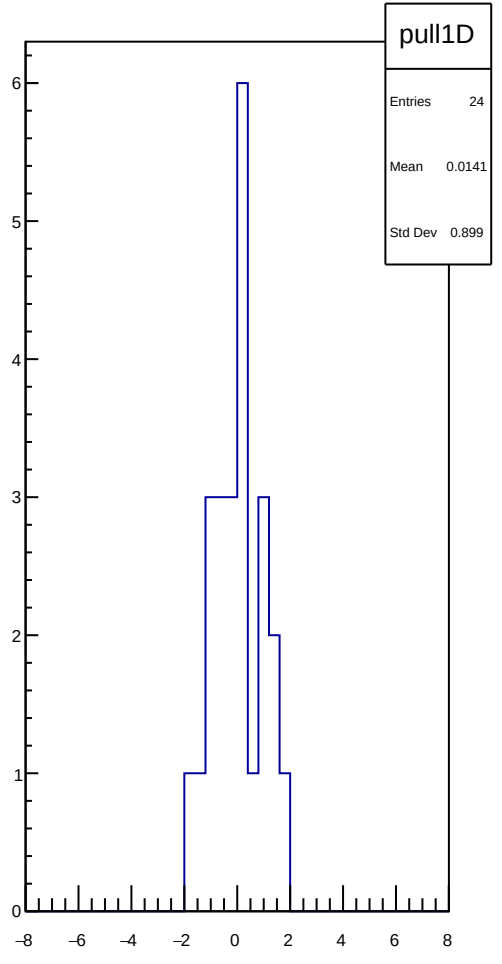

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 21.06 / 23
p0 100.4 ± 273.1
4000
2000
0
−2000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −1482
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.001406
Std Dev 0.9368
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

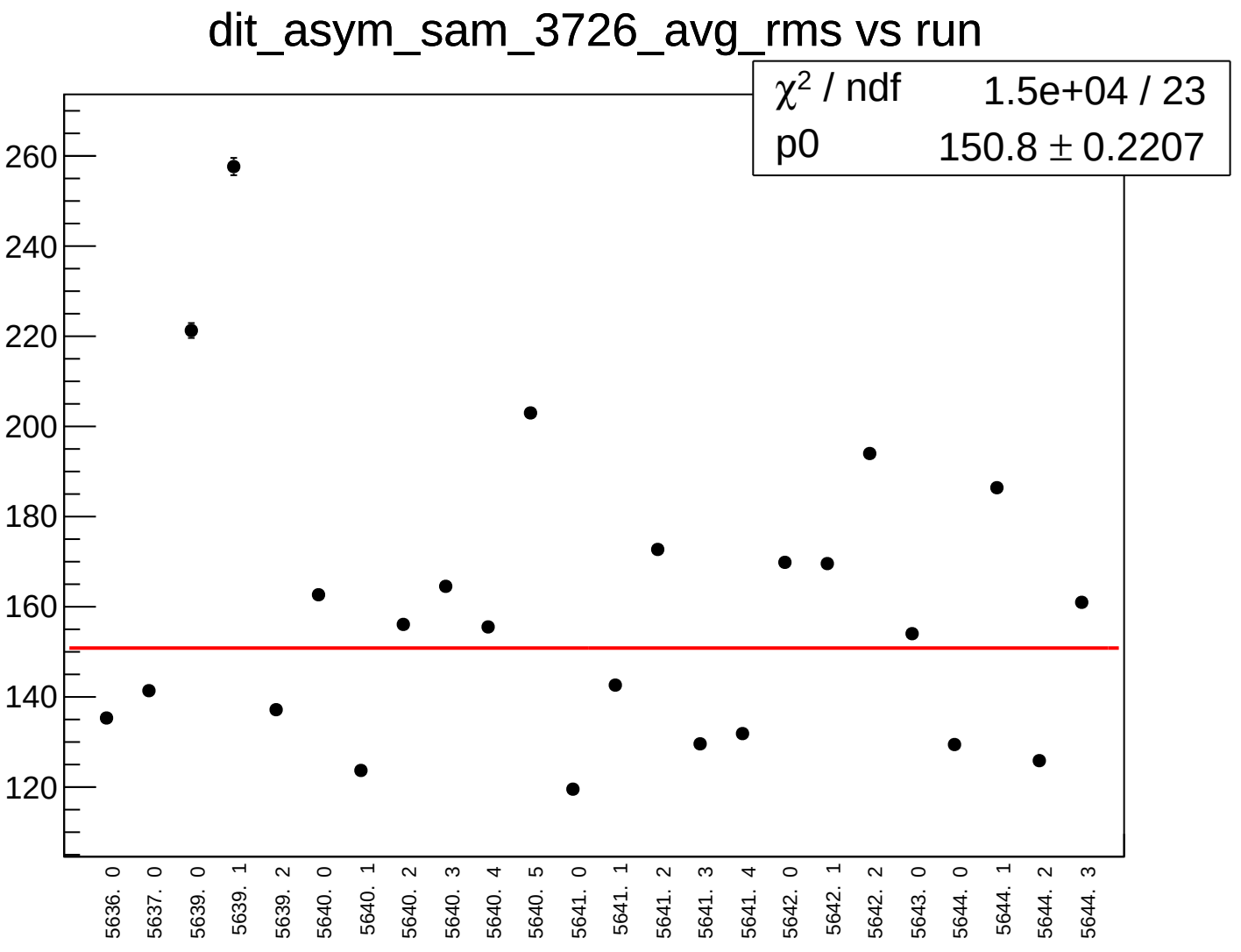

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 2.092e+04 / 23
p0 131.1 ± 0.1931
260
240
220
200
180
160
140
120
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

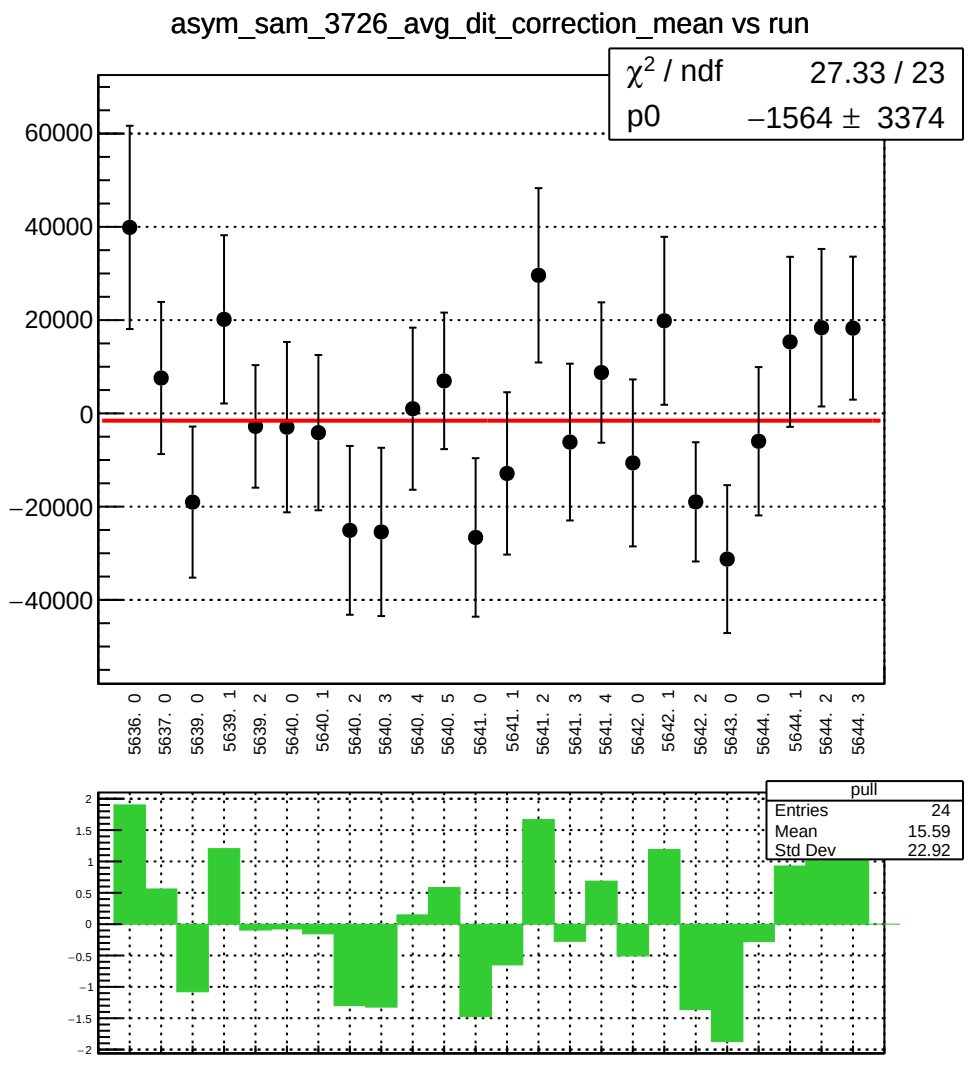

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 26.87 / 23
p0 −1724 ± 3391
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 16.28
Std Dev 22.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.03811
Std Dev 1.057
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

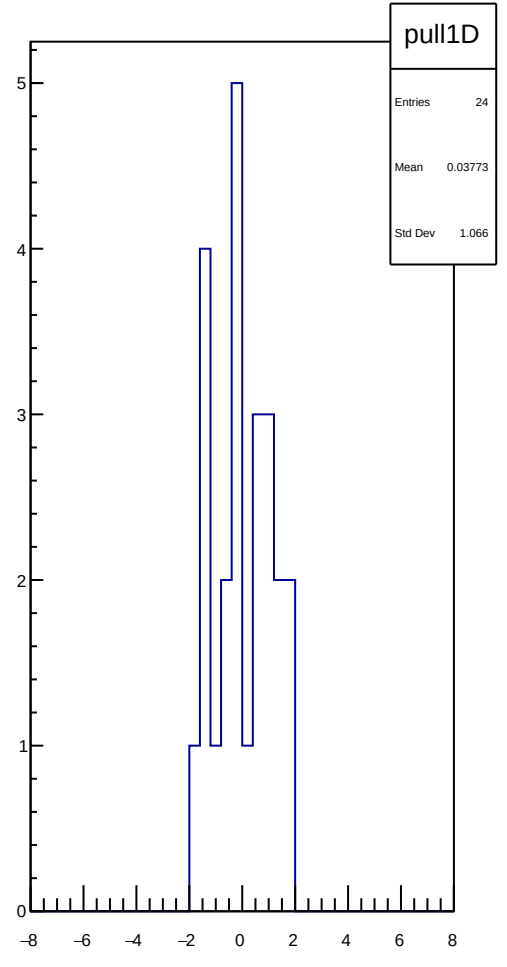

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 1207 / 23
p0 1663 ± 2.398
1850
1800
1750
1700
1650
1600
1550
1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

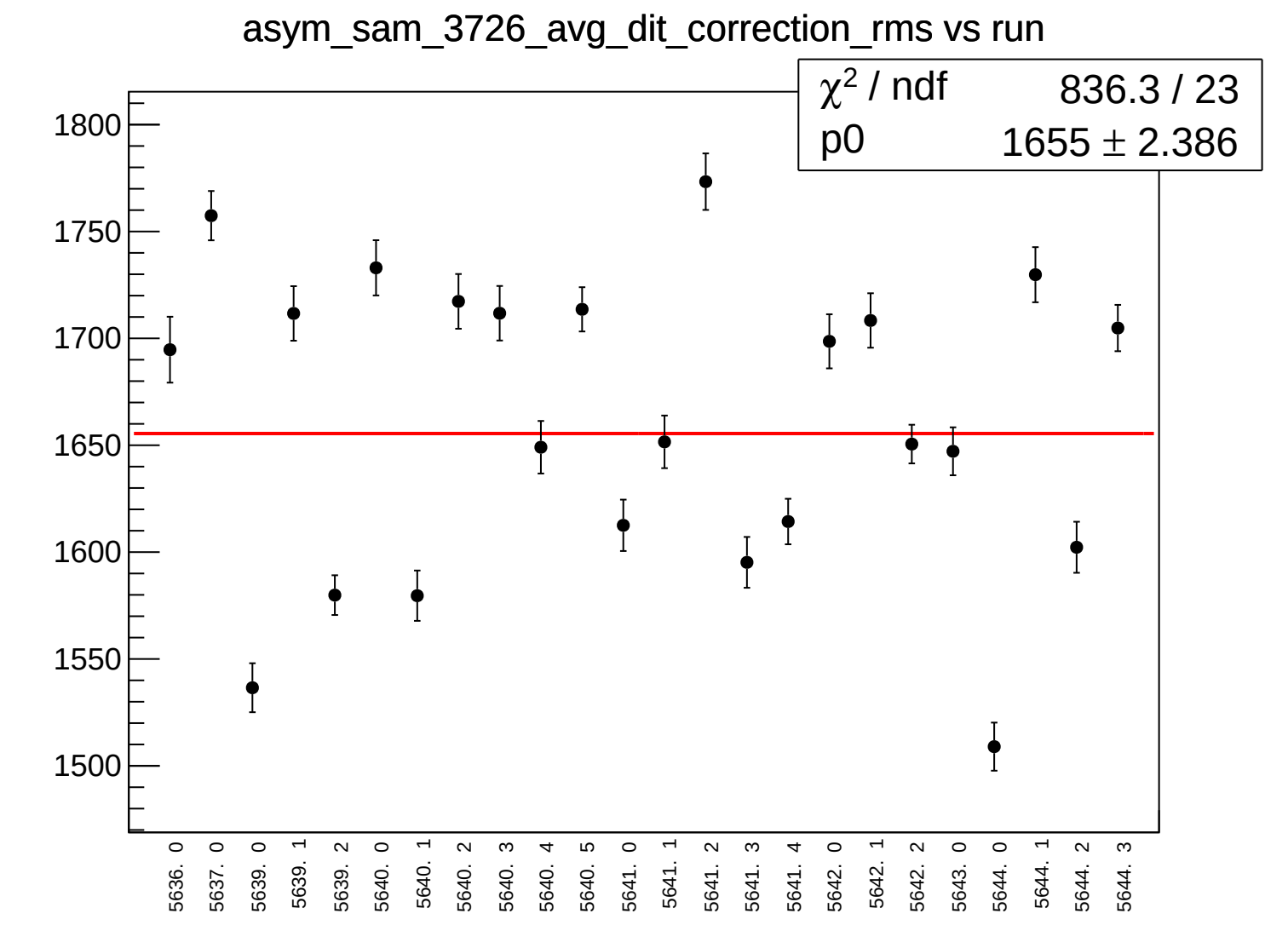

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 19.4 / 23
p0 175.1 ± 312.1
6000
4000
2000
0
−2000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −143.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

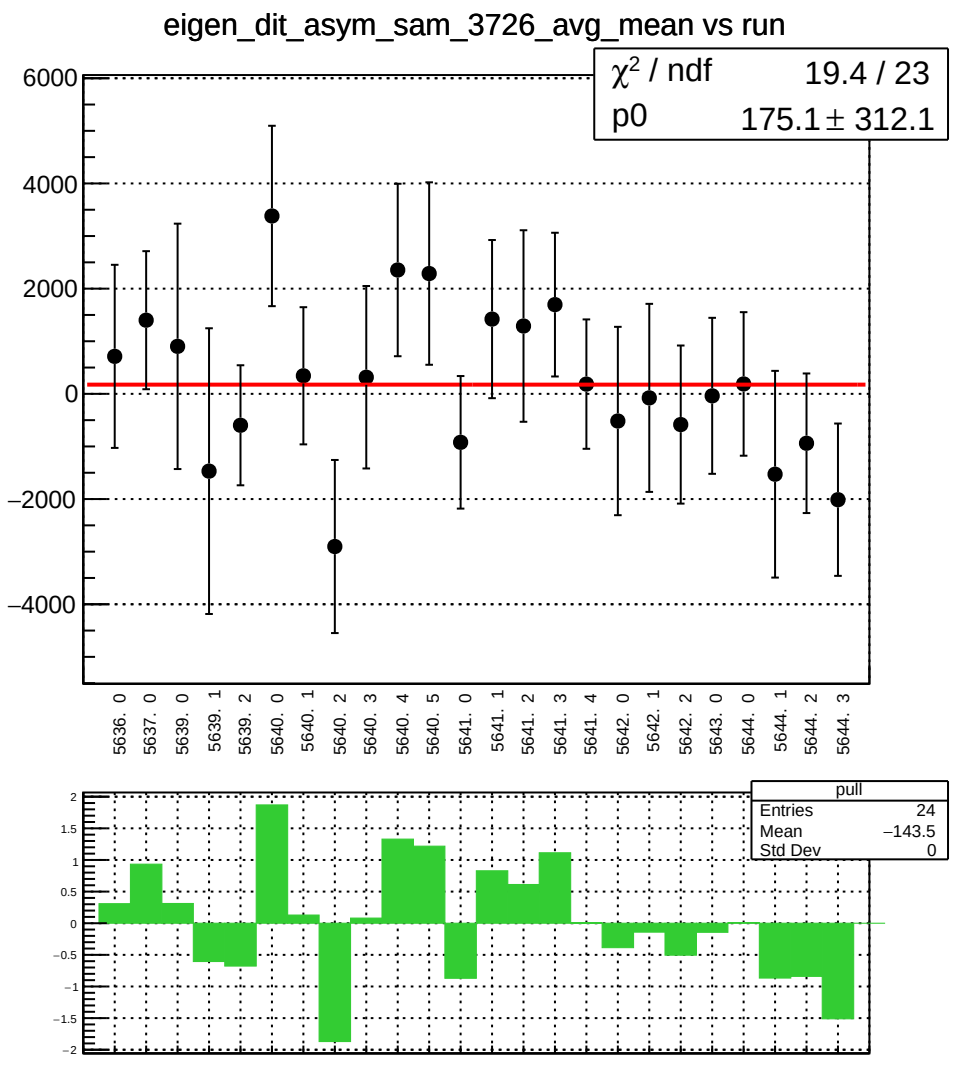

pull1D
Entries 24
Mean 0.0141
Std Dev 0.899
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

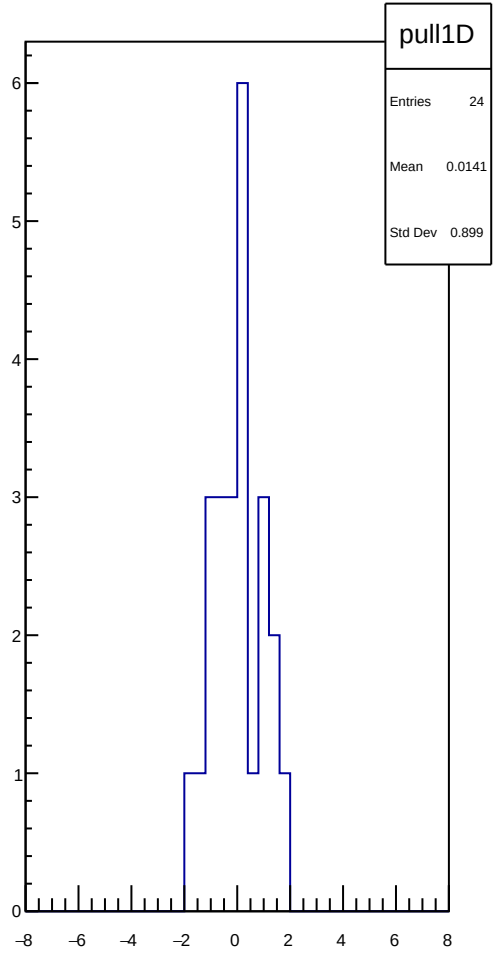

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 1.5e+04 / 23
p0 150.8 ± 0.2207
260
240
220
200
180
160
140
120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

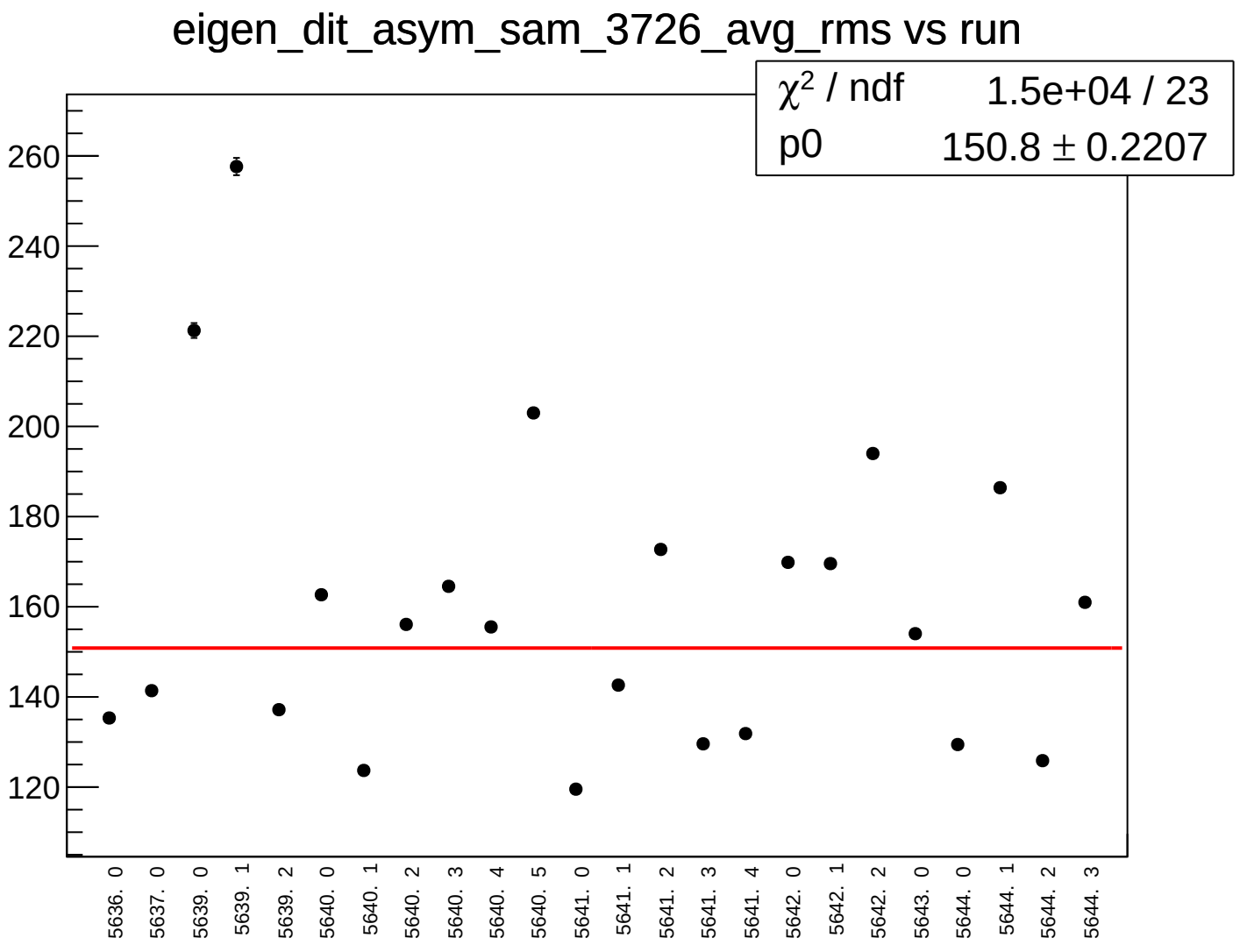

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 27.33 / 23
p0 −1564 ± 3374
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 15.59
Std Dev 22.92
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

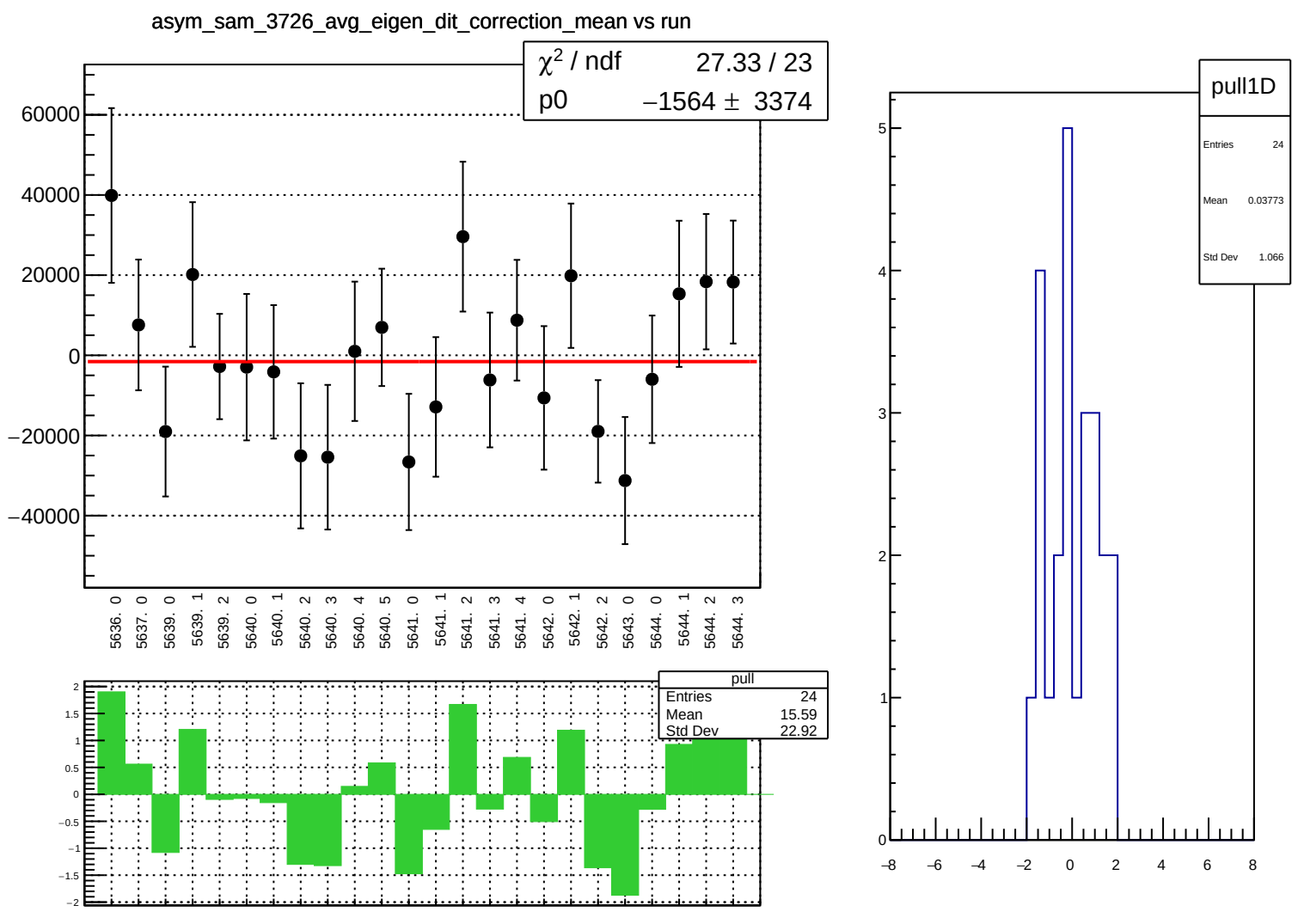

pull1D
Entries 24
Mean 0.03773
Std Dev 1.066
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

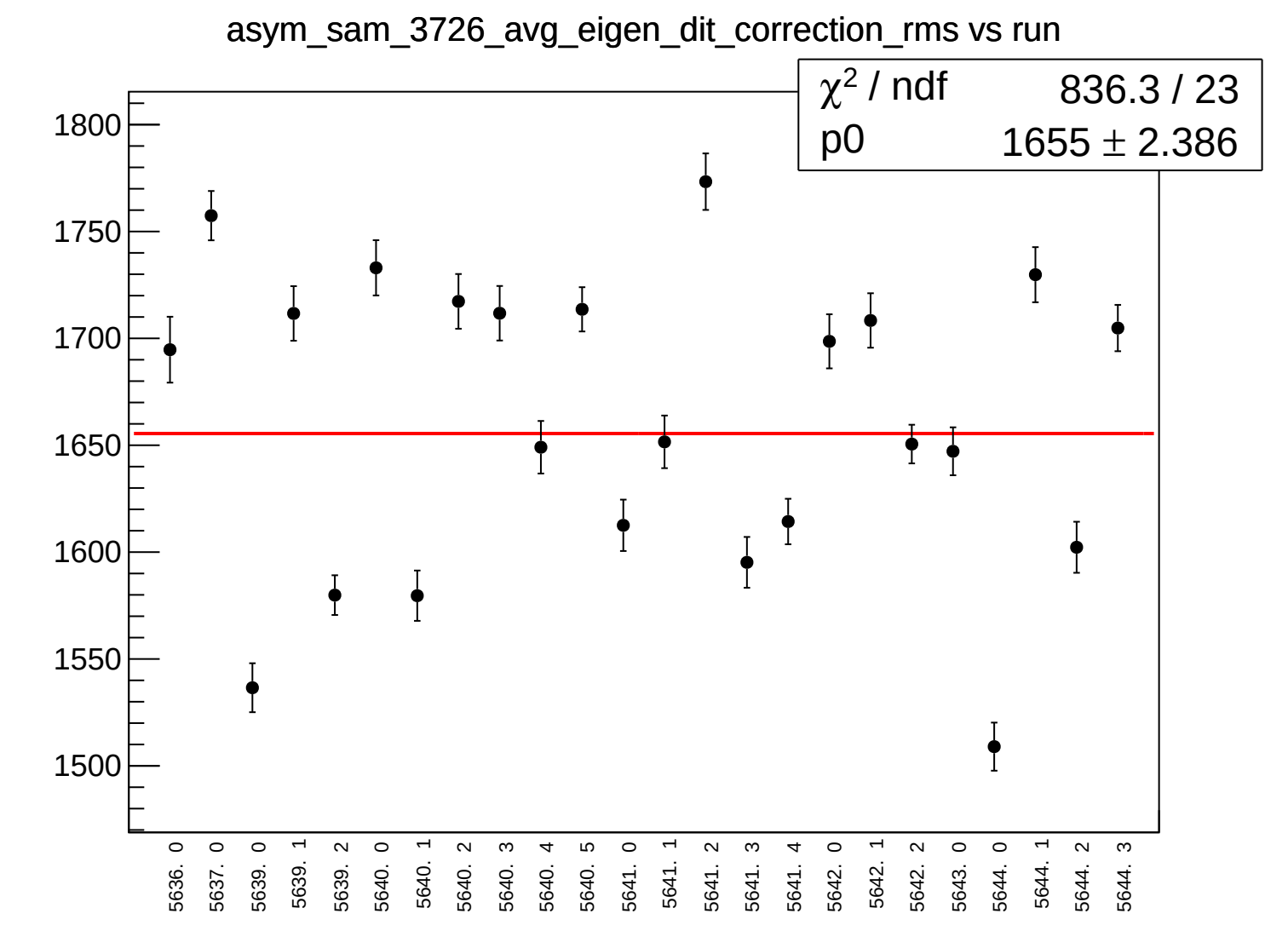

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 836.3 / 23
p0 1655 ± 2.386
1800
1750
1700
1650
1600
1550
1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

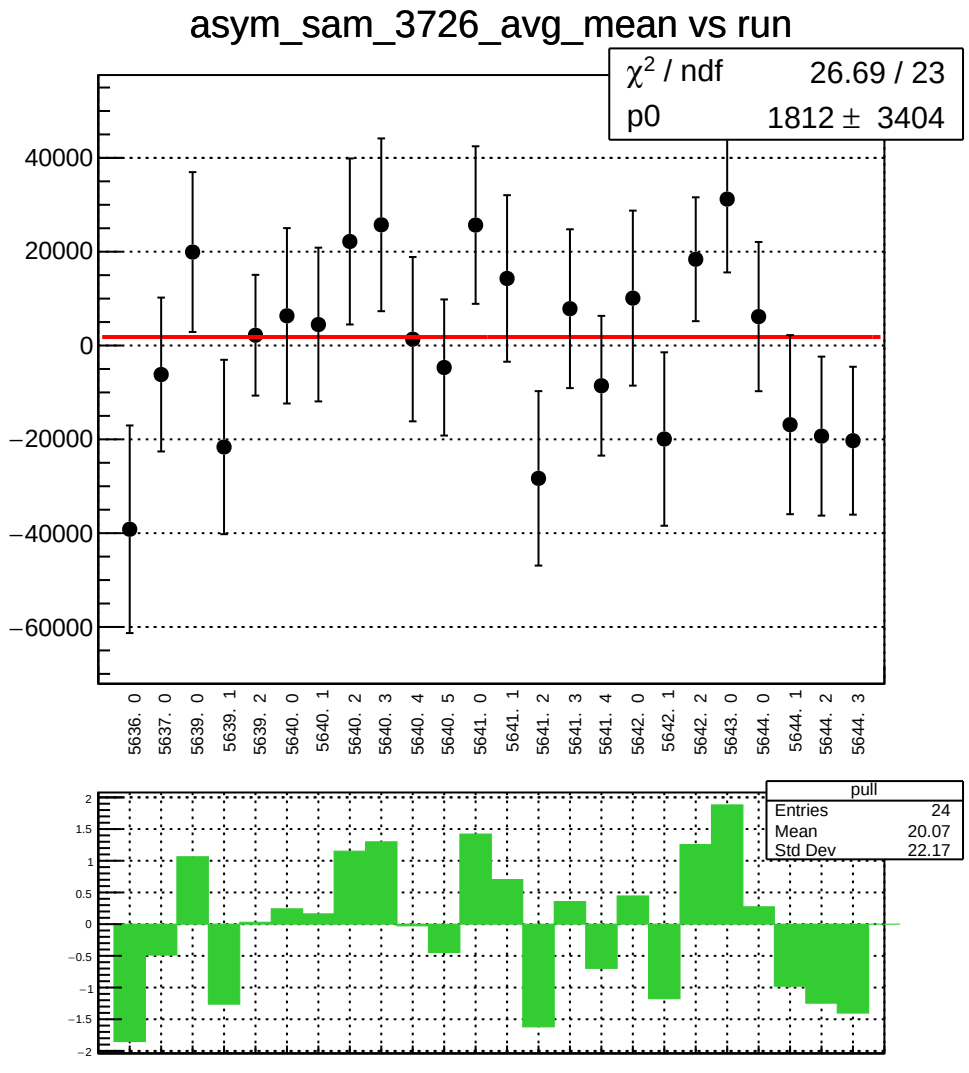

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 19.4 / 23
p0 175.1 ± 312.1
6000
4000
2000
0
−2000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −143.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

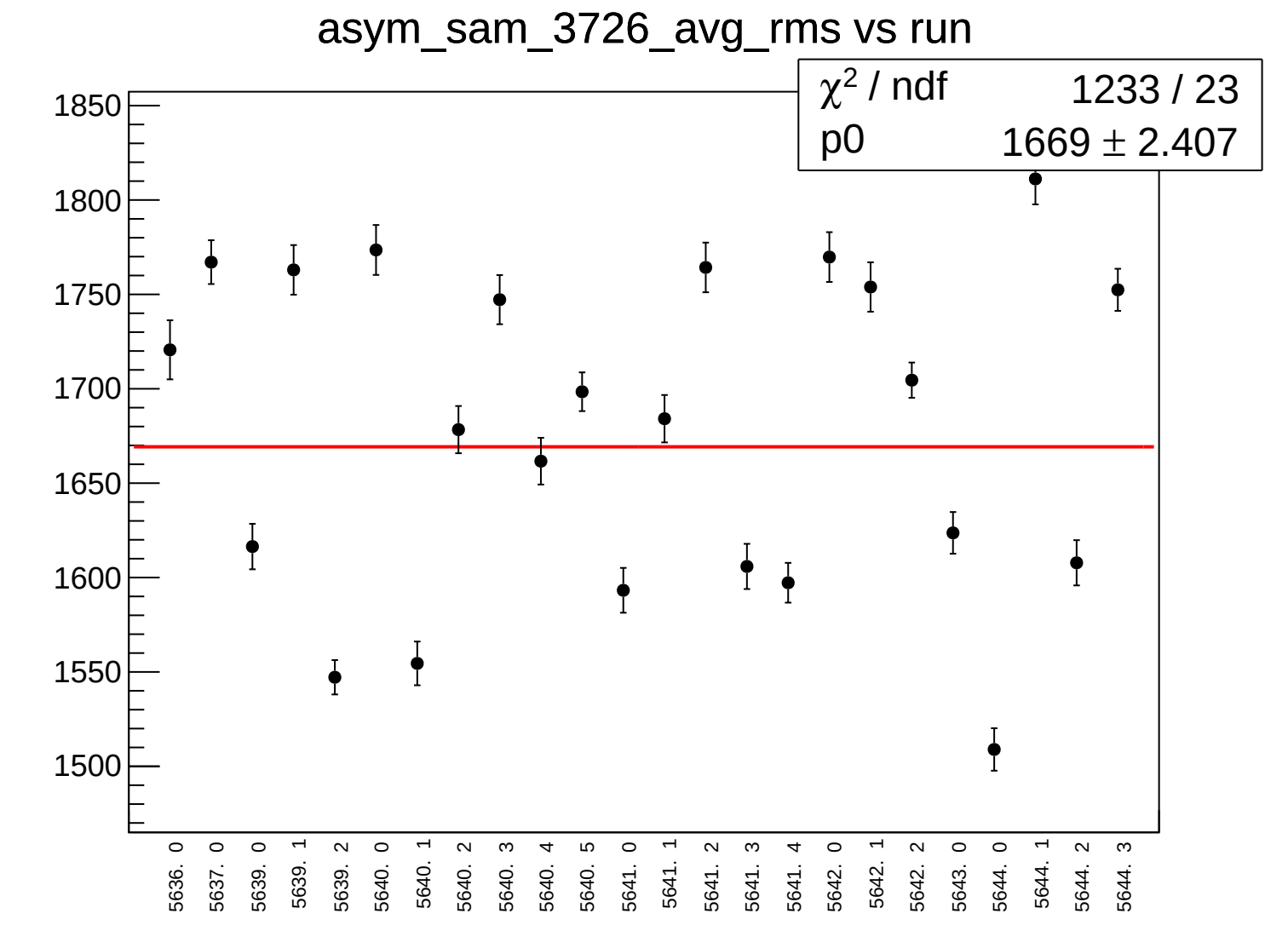

pull1D
Entries 24
Mean 0.0141
Std Dev 0.899
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

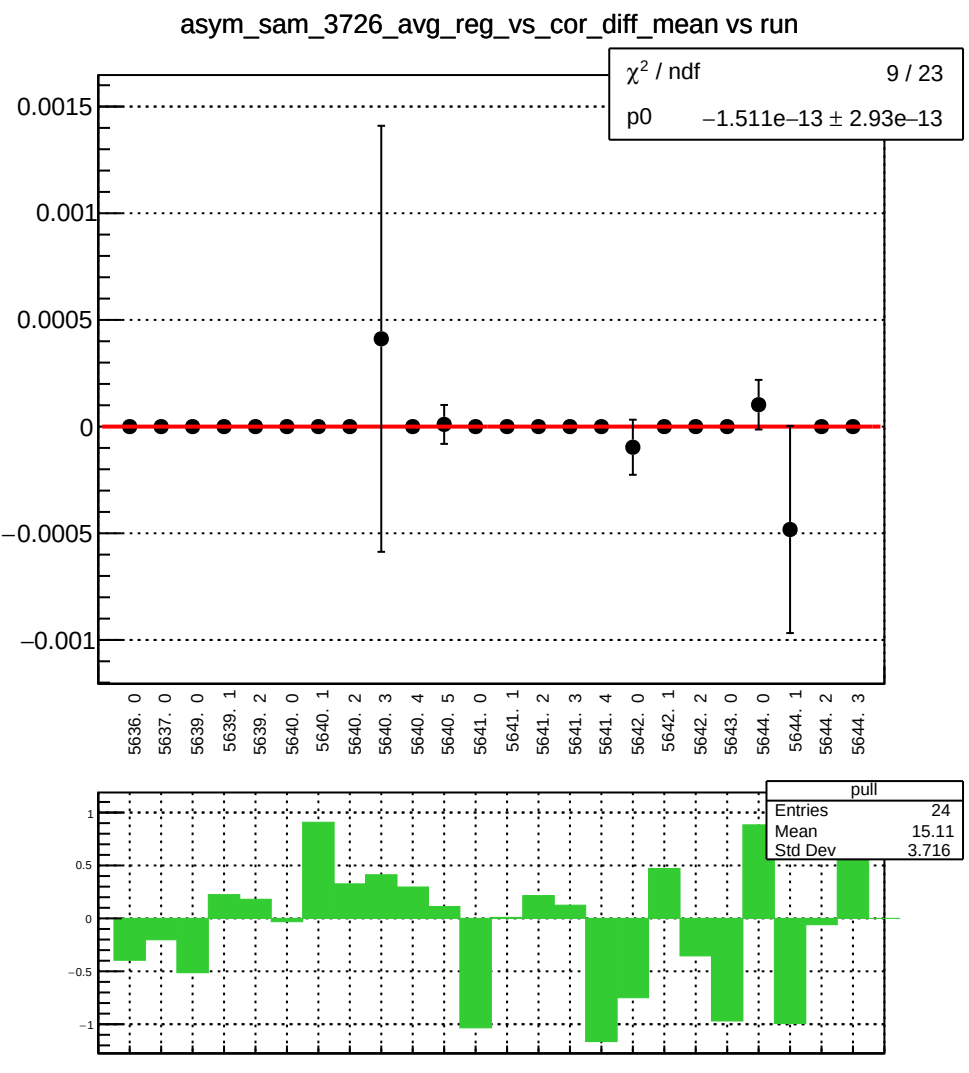

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 1.5e+04 / 23
p0 150.8 ± 0.2207
260
240
220
200
180
160
140
120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

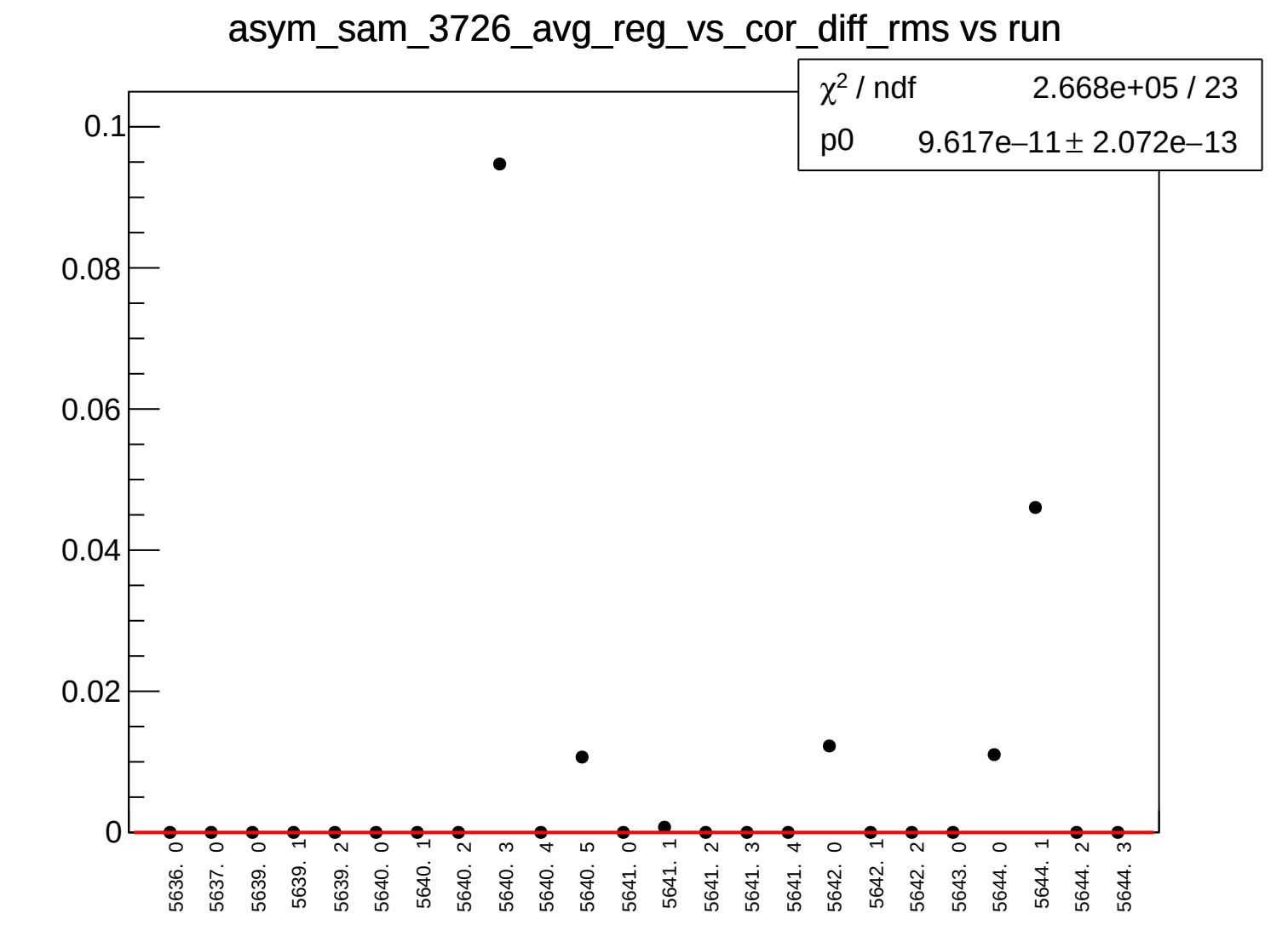

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 27.33 / 23
p0 −1564 ± 3374
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 15.59
Std Dev 22.92
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.03773
Std Dev 1.066
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

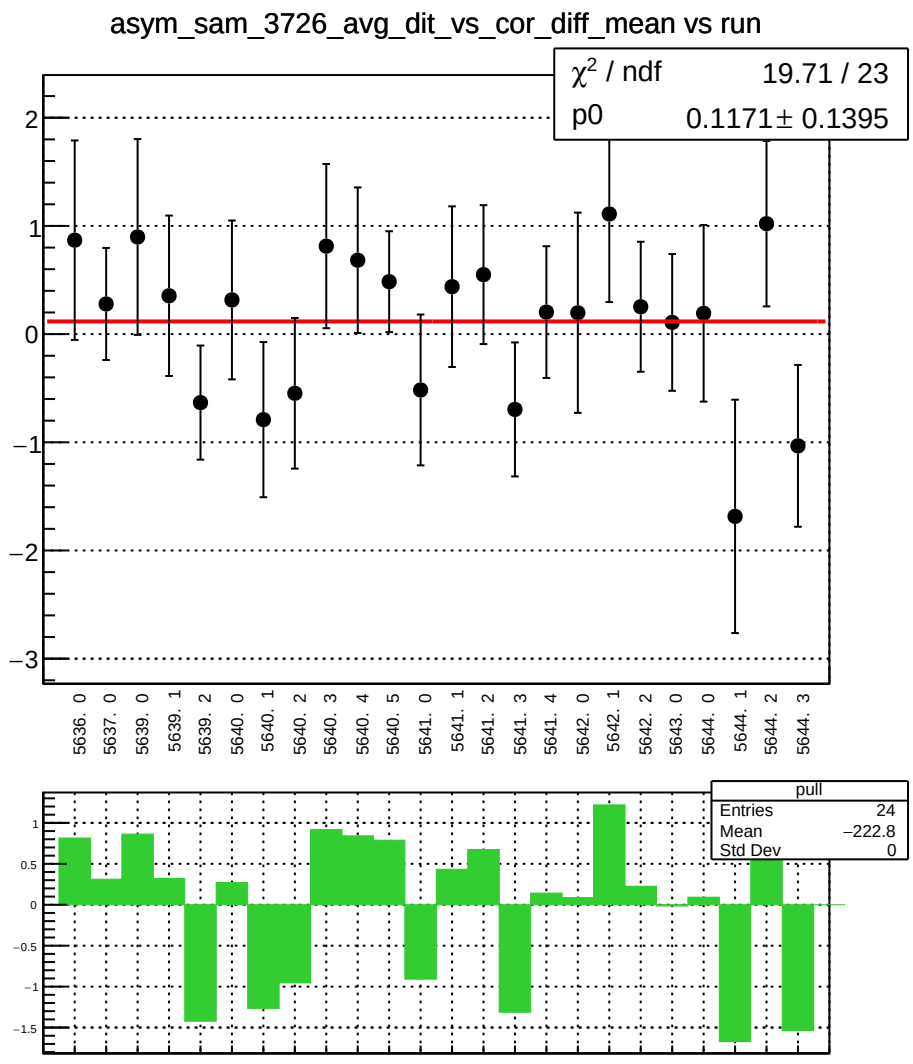

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 836.3 / 23
p0 1655 ± 2.386
1800
1750
1700
1650
1600
1550
1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

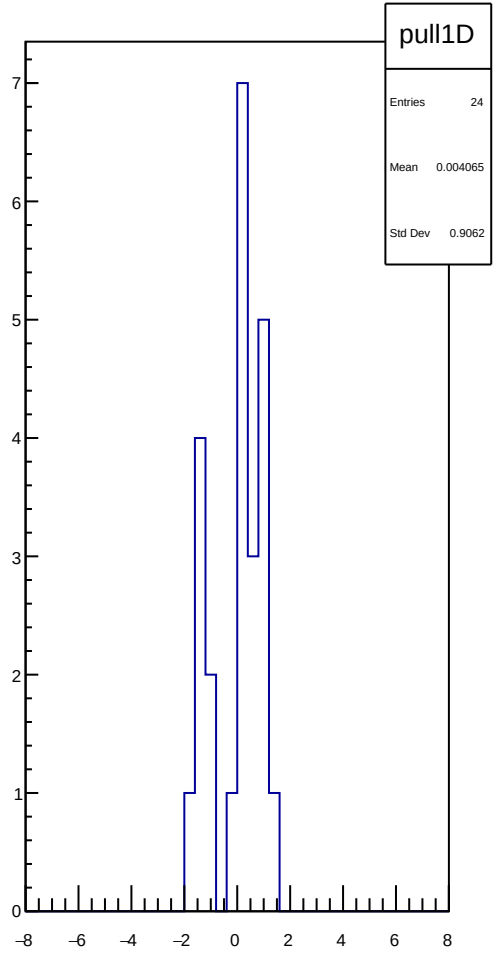

asym_sam_3726_avg_mean vs run
χ² / ndf 26.69 / 23
p0 1812 ± 3404
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 20.07
Std Dev 22.17
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.038
Std Dev 1.054
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

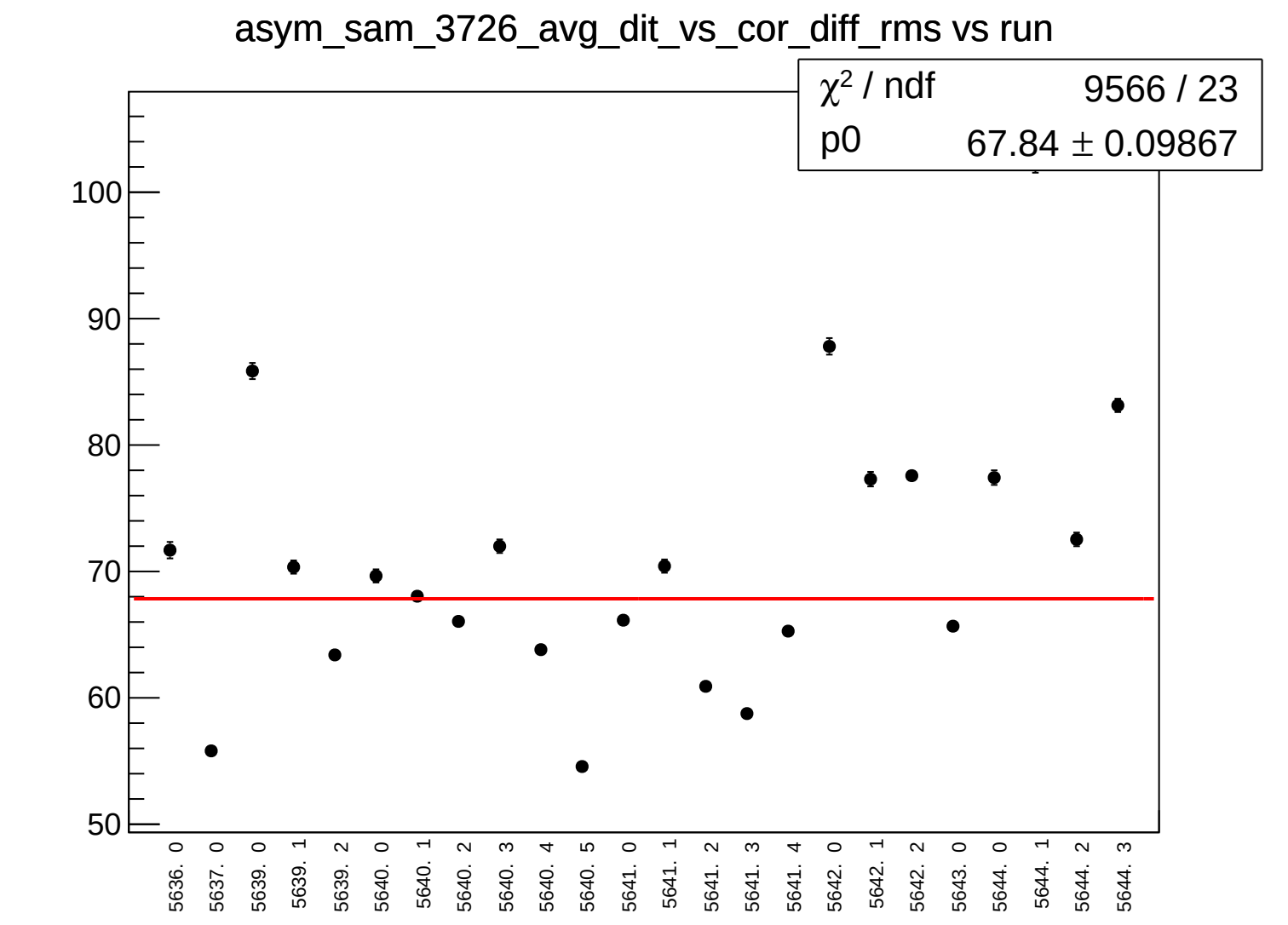

asym_sam_3726_avg_rms vs run
χ² / ndf 1233 / 23
p0 1669 ± 2.407
1850
1800
1750
1700
1650
1600
1550
1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

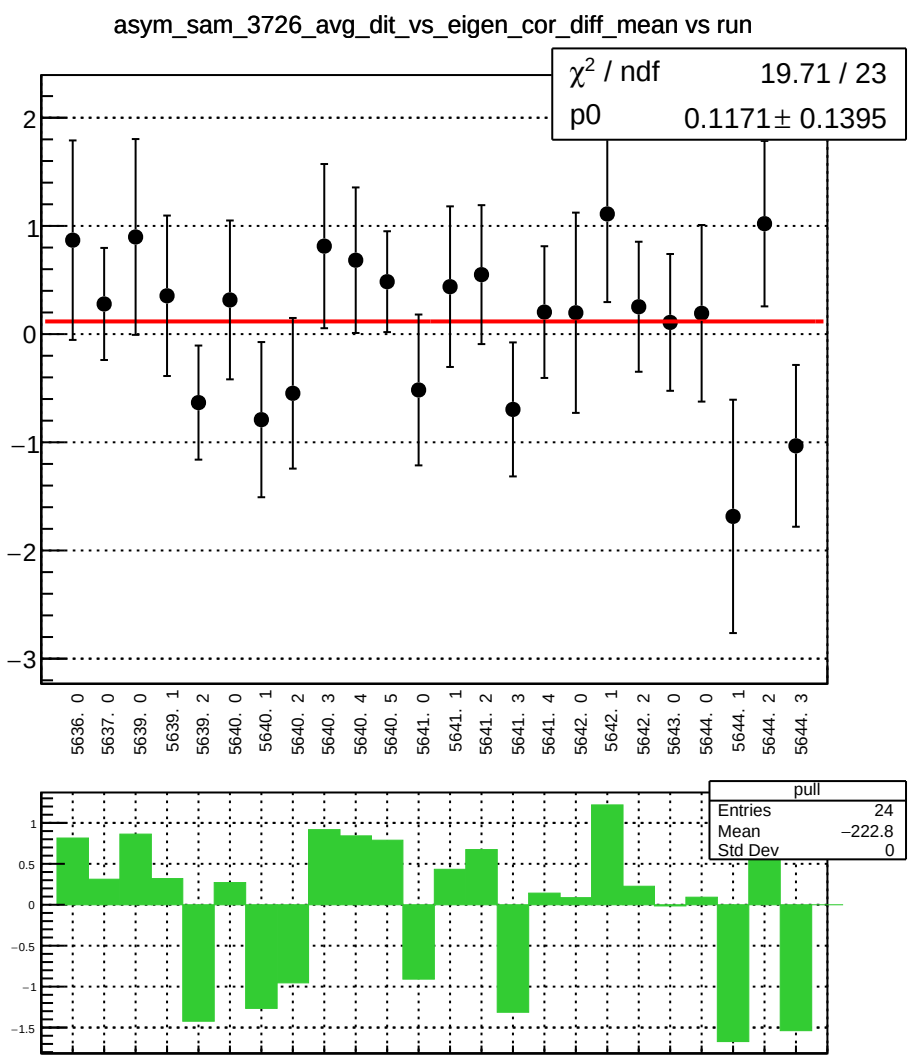

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 9 / 23
p0 −1.511e−13 ± 2.93e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 15.11
Std Dev 3.716
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.05121
Std Dev 0.6102
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

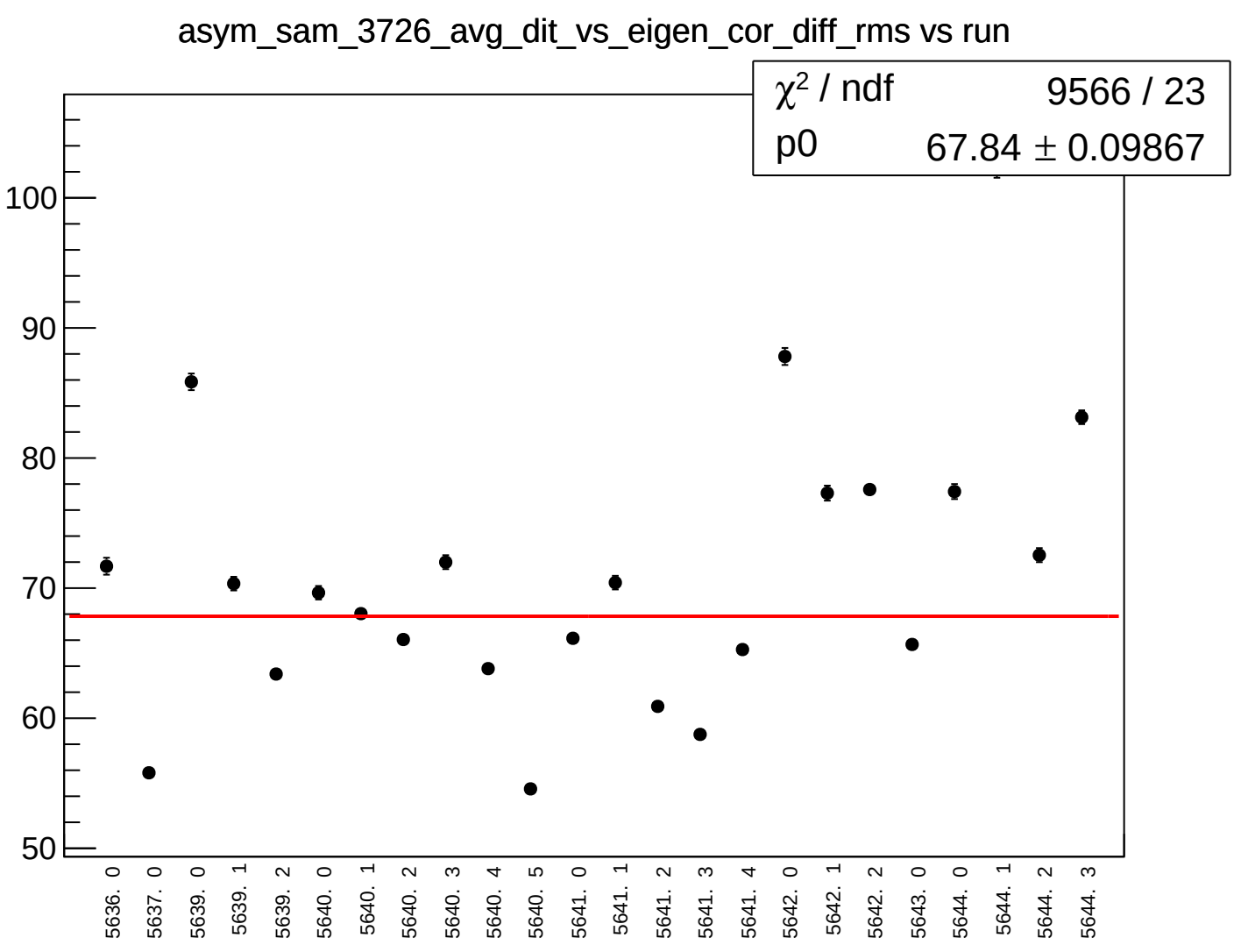

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.668e+05 / 23
p0 9.617e−11 ± 2.072e−13
0.1
0.08
0.06
0.04
0.02
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

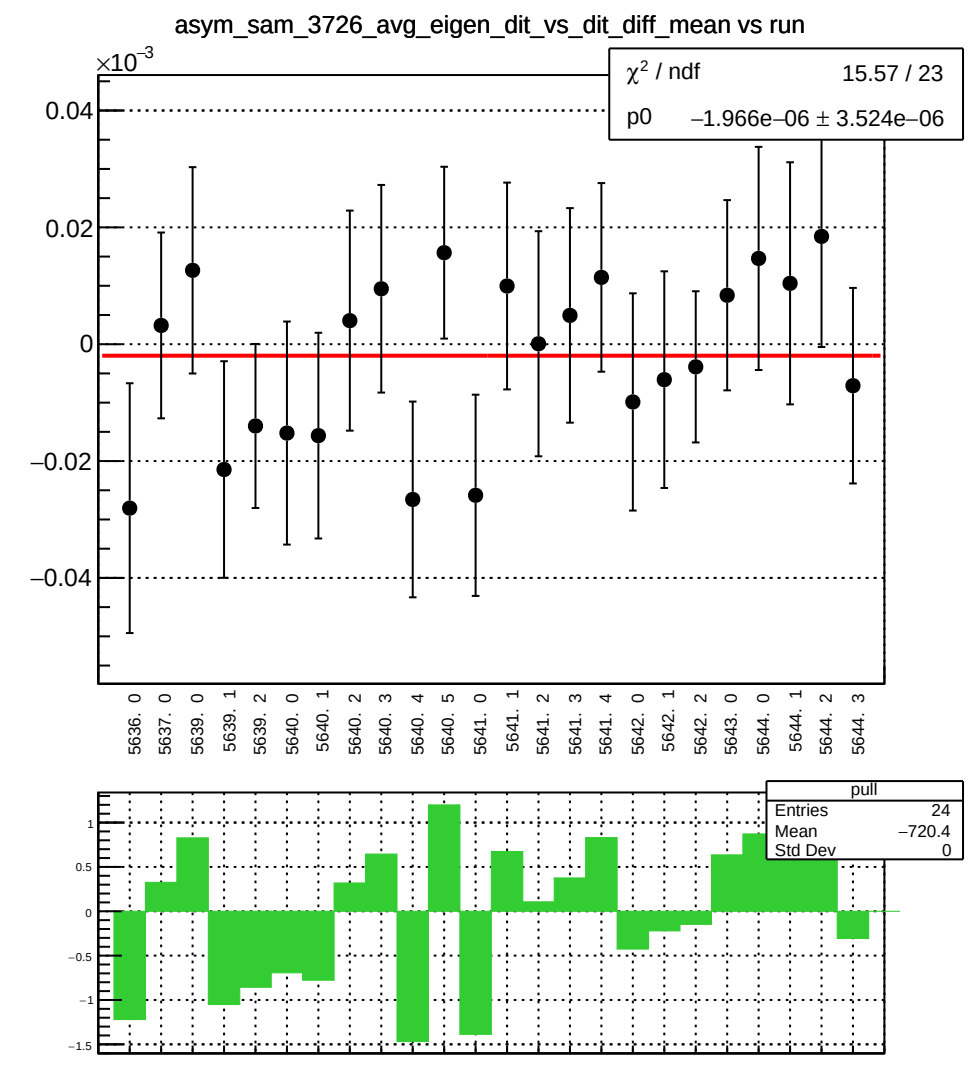

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 19.71 / 23
p0 0.1171± 0.1395
2
1
0
−1
−2
−3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −222.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

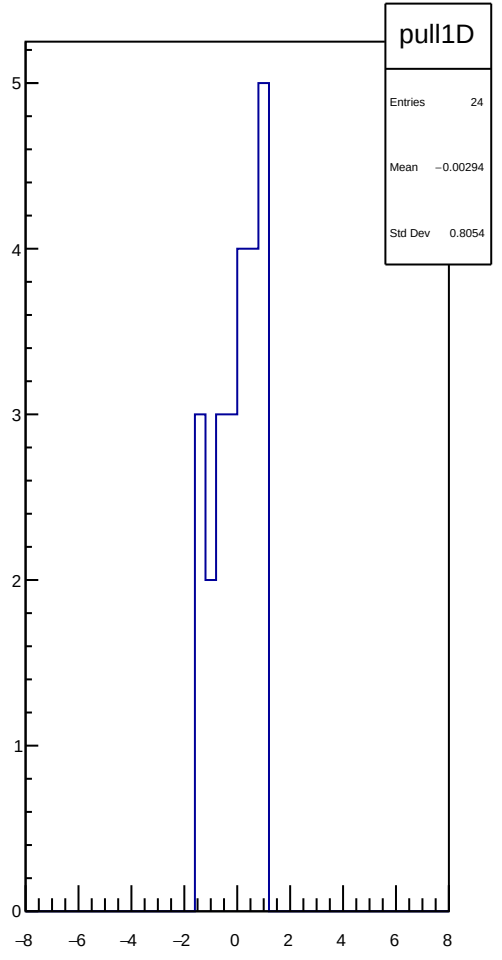

pull1D
Entries 24
Mean 0.004065
Std Dev 0.9062
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

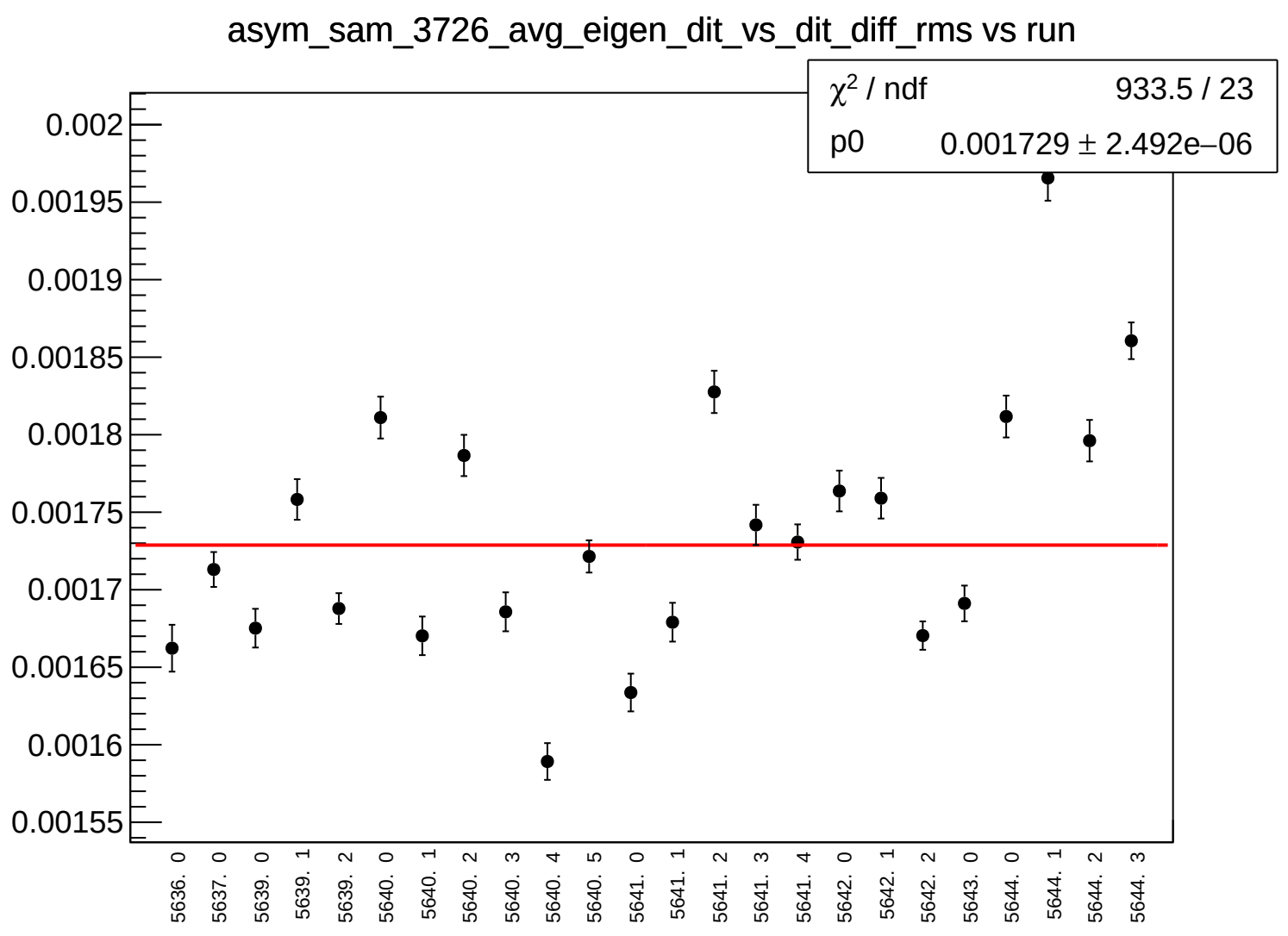

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9566 / 23
p0 67.84 ± 0.09867
100
90
80
70
60
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

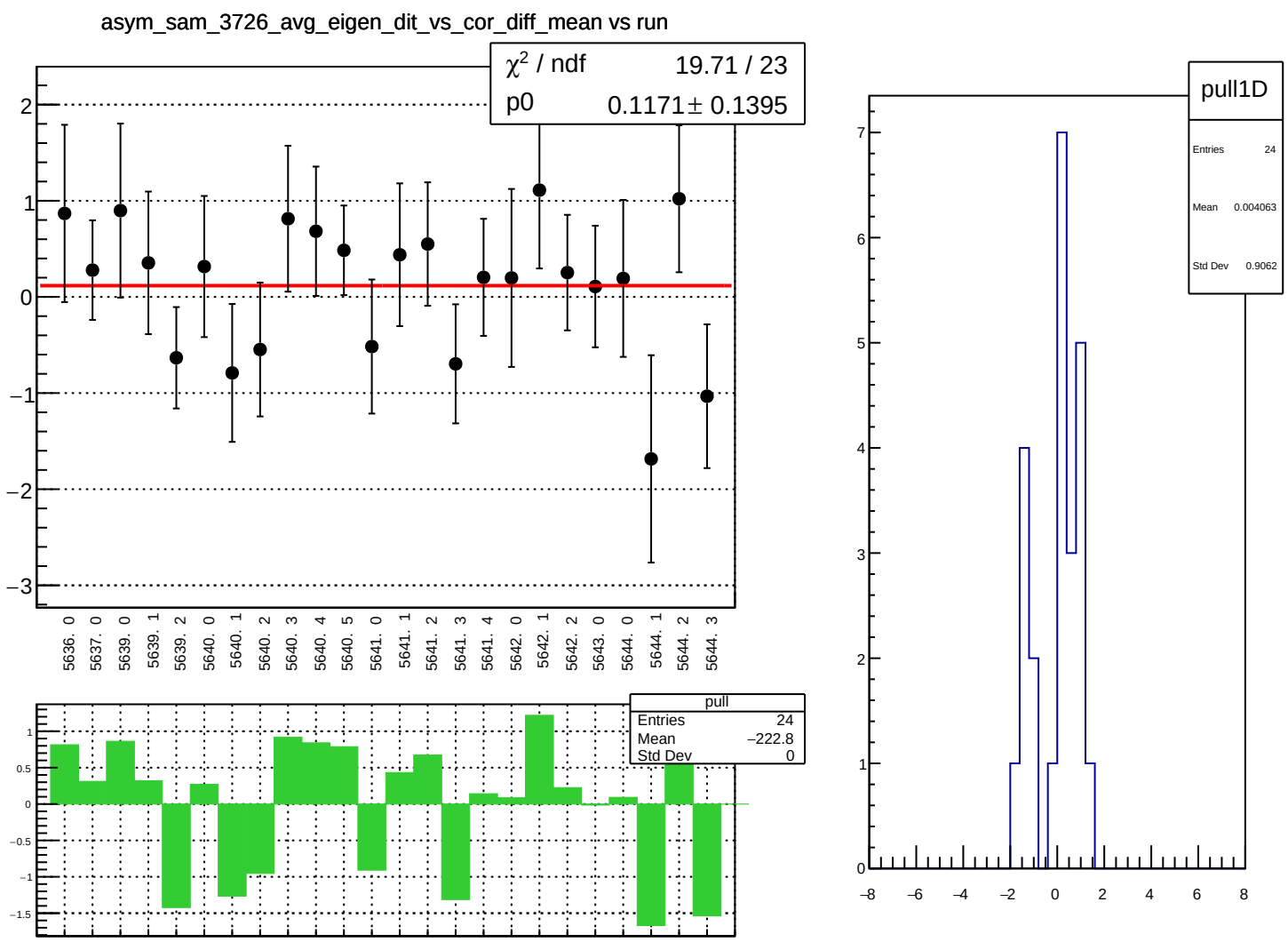

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 19.71 / 23
p0 0.1171± 0.1395
2
1
0
−1
−2
−3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −222.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.004065
Std Dev 0.9062
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

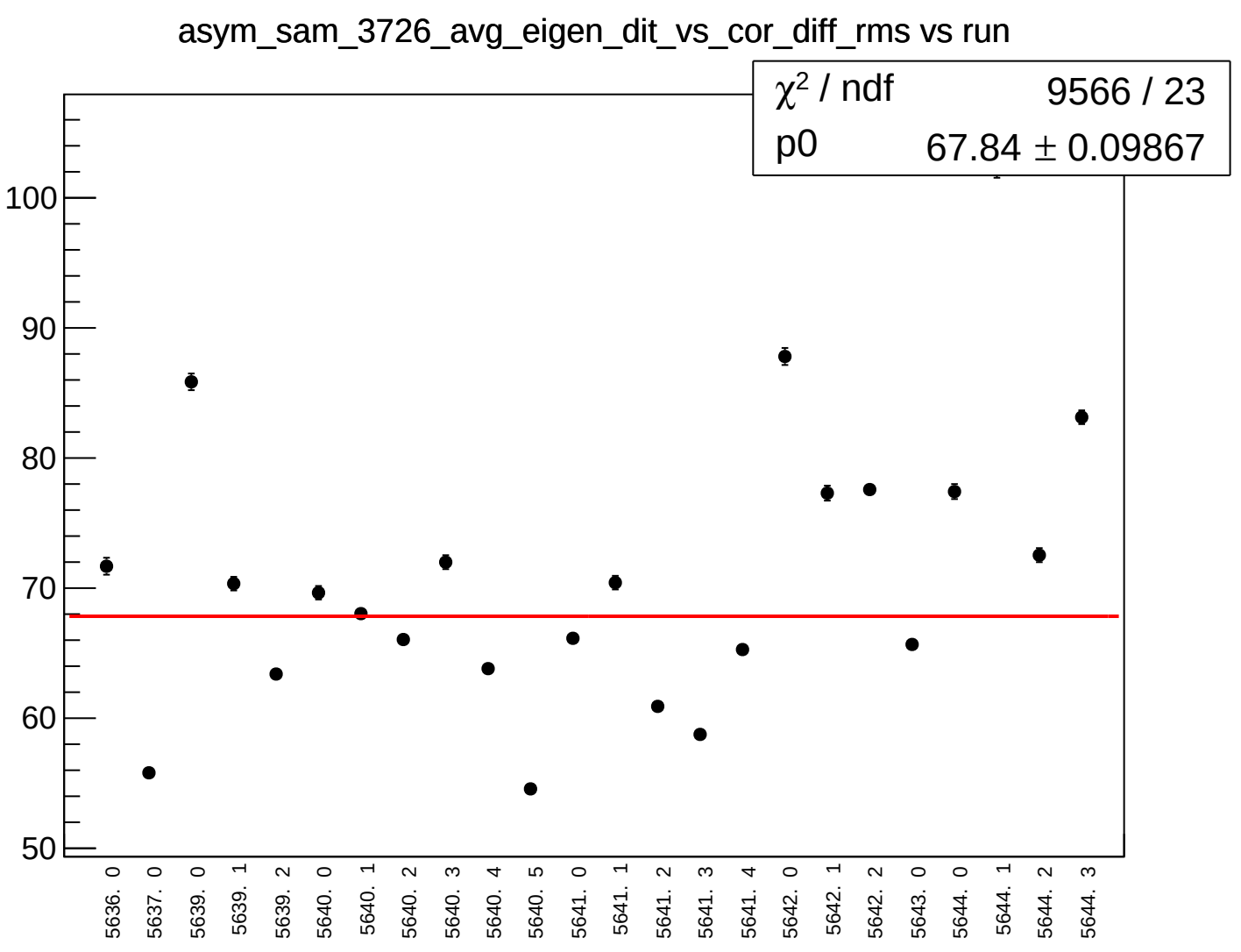

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9566 / 23
p0 67.84 ± 0.09867
100
90
80
70
60
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

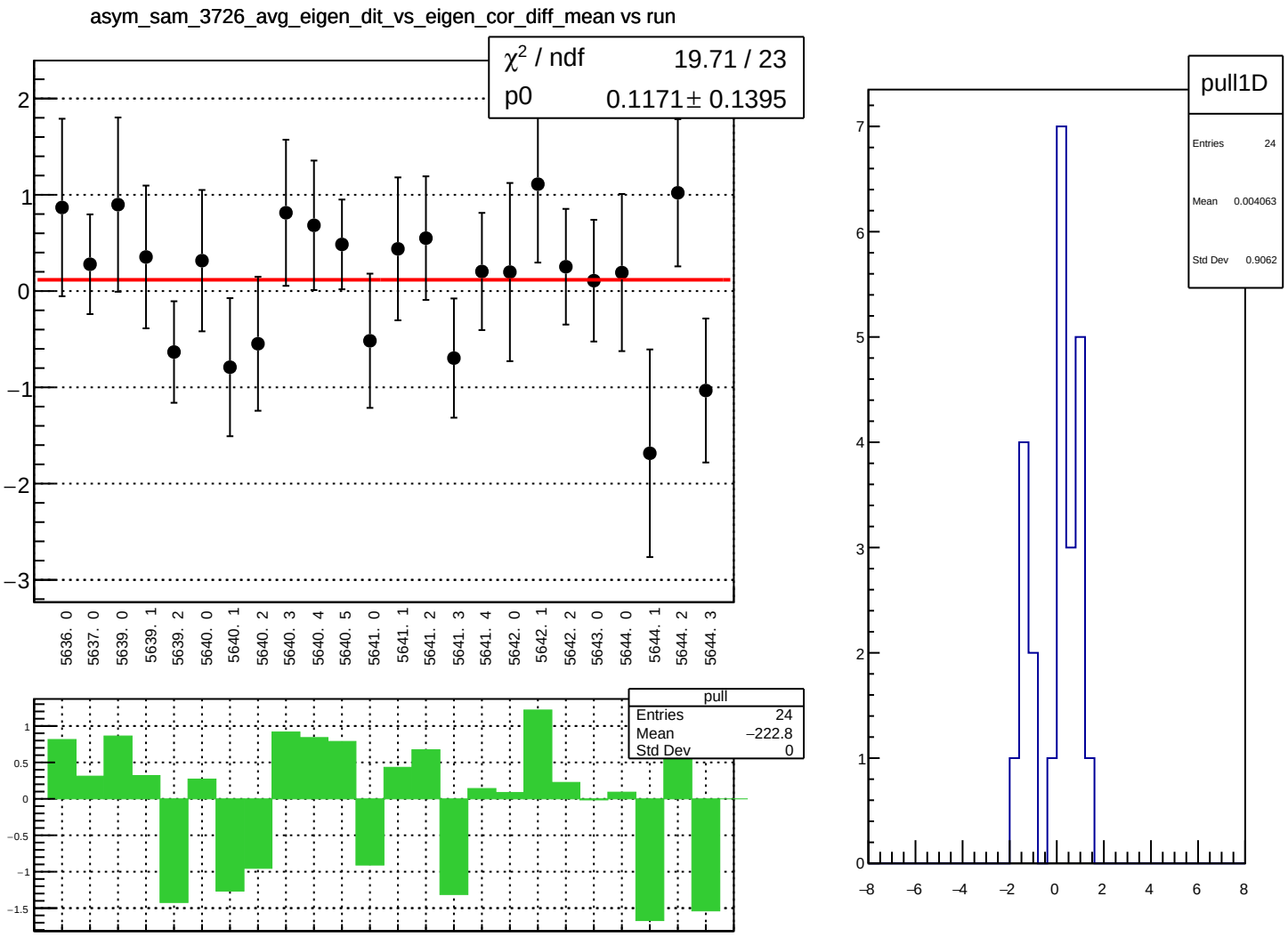

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 15.57 / 23
p0 −1.966e−06 ± 3.524e−06
0.04
0.02
0
−0.02
−0.04
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −720.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

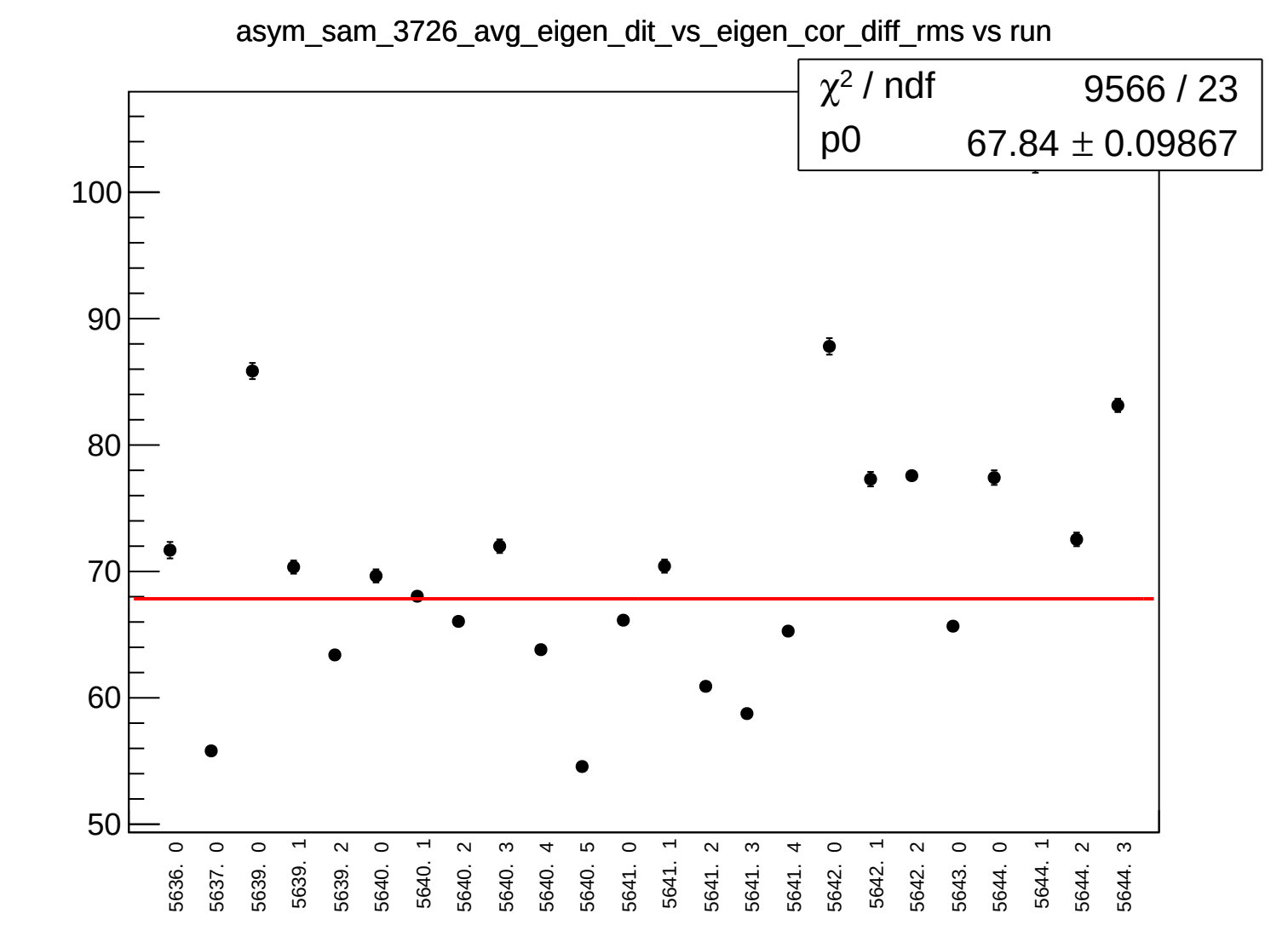

pull1D
Entries 24
Mean −0.00294
Std Dev 0.8054
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

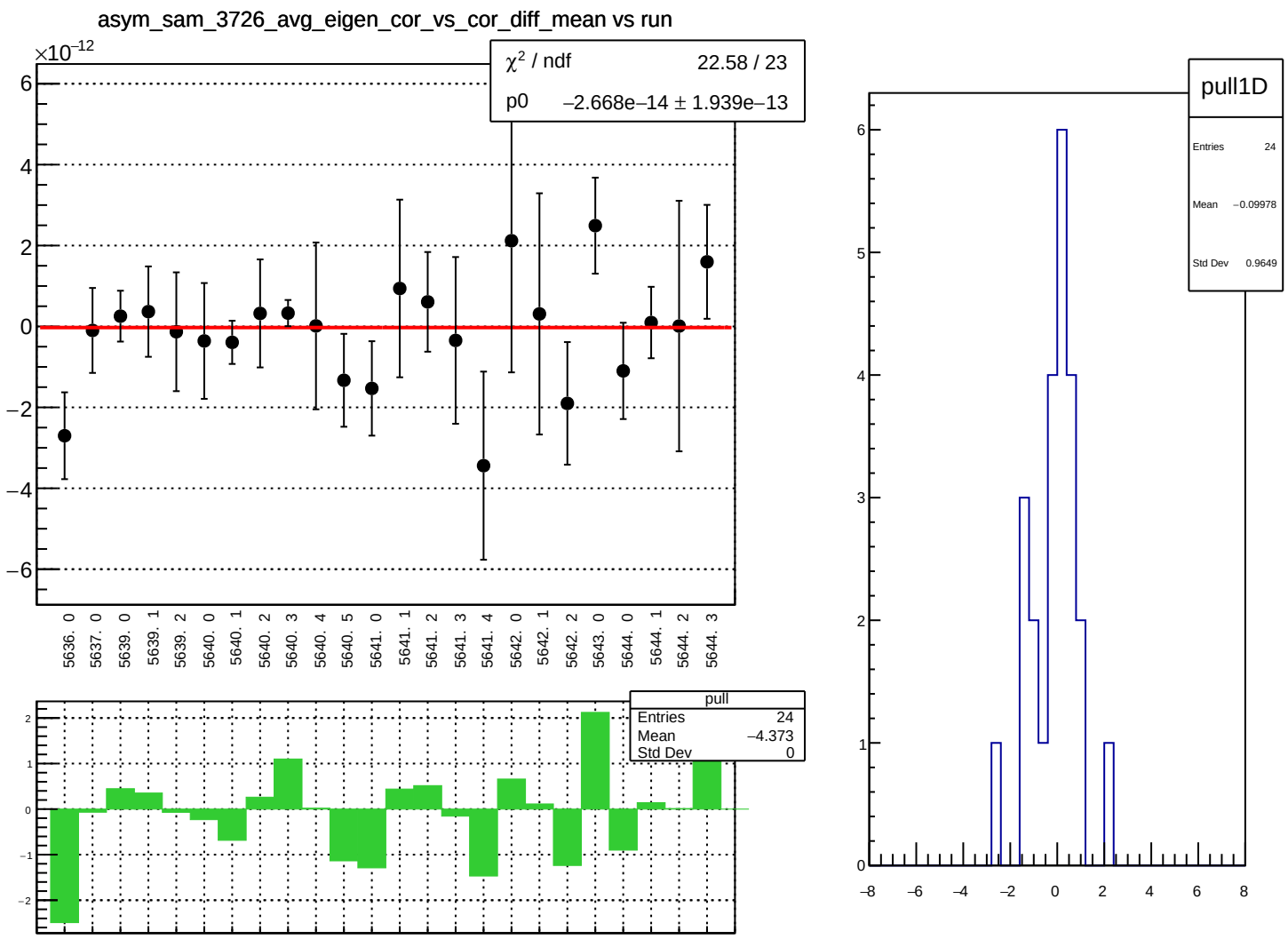

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 933.5 / 23
p0 0.001729 ± 2.492e−06
0.002
0.00195
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

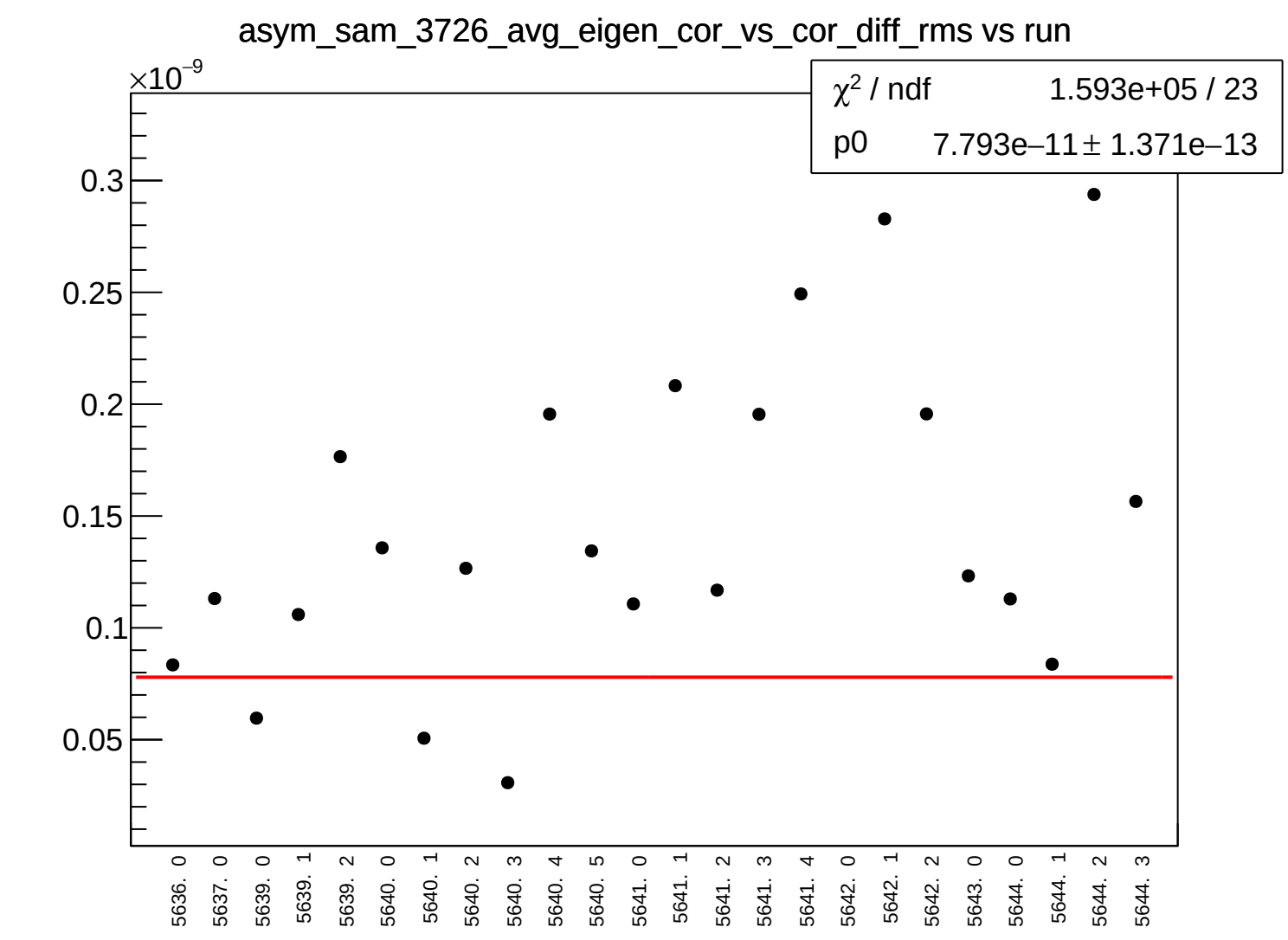

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 19.71 / 23
p0 0.1171 ± 0.1395
2
1
0
−1
−2
−3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −222.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.004063
Std Dev 0.9062
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

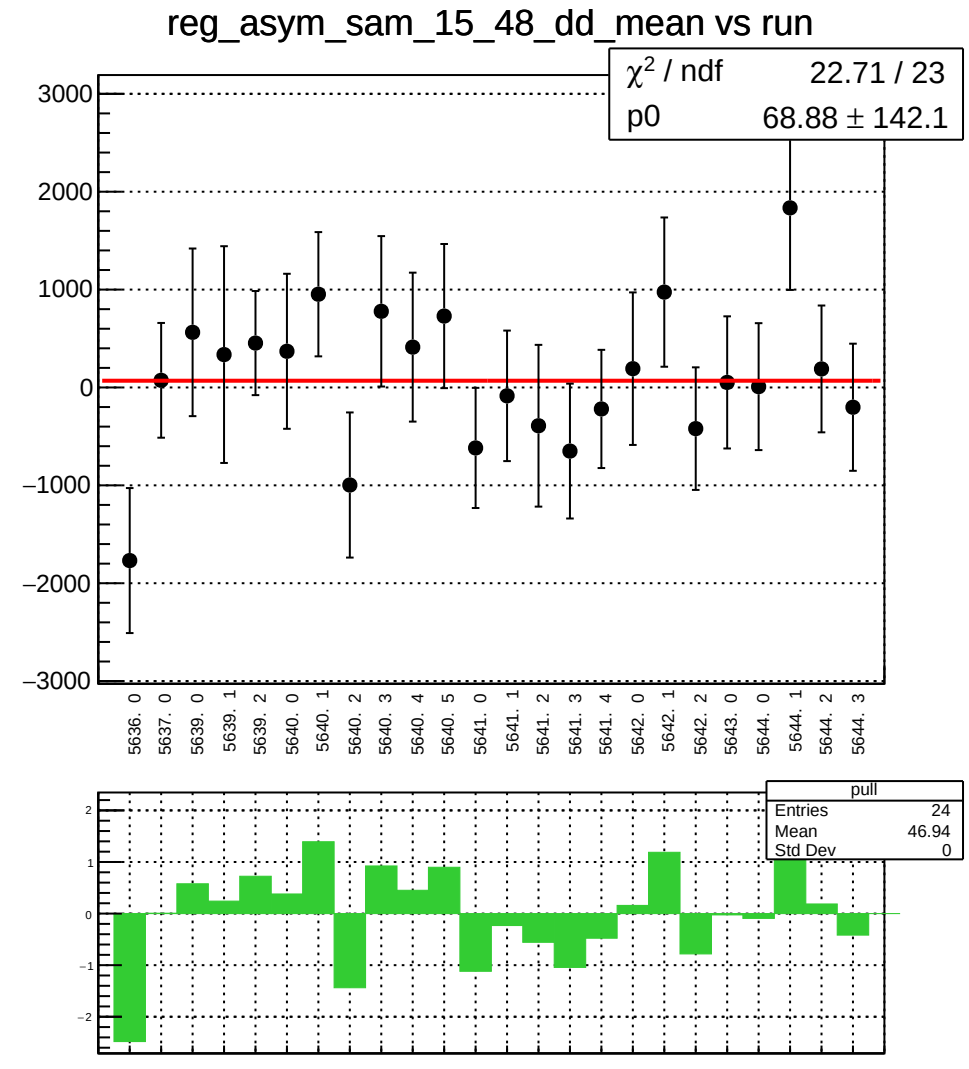

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9566 / 23
p0 67.84 ± 0.09867
100
90
80
70
60
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

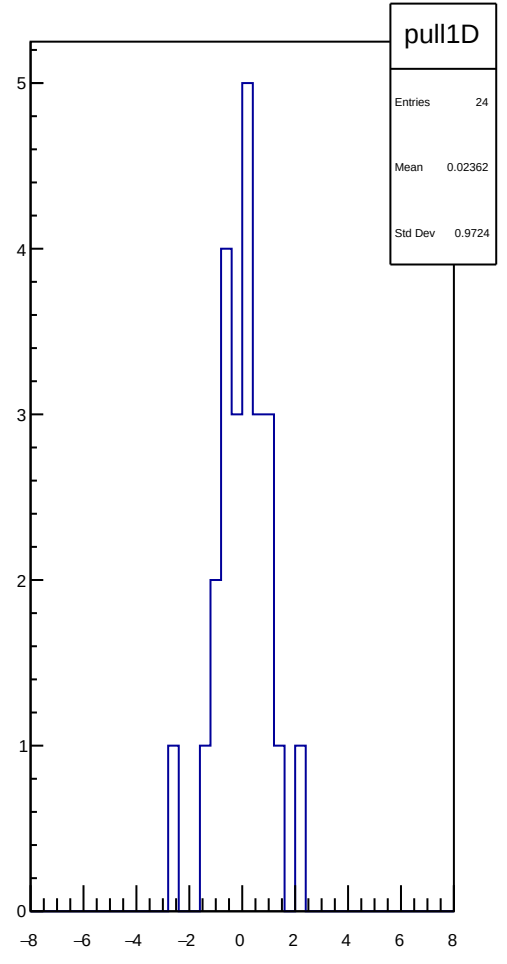

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 19.71 / 23
p0 0.1171± 0.1395
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −222.8
Std Dev 0
pull1D
Entries 24
Mean 0.004063
Std Dev 0.9062

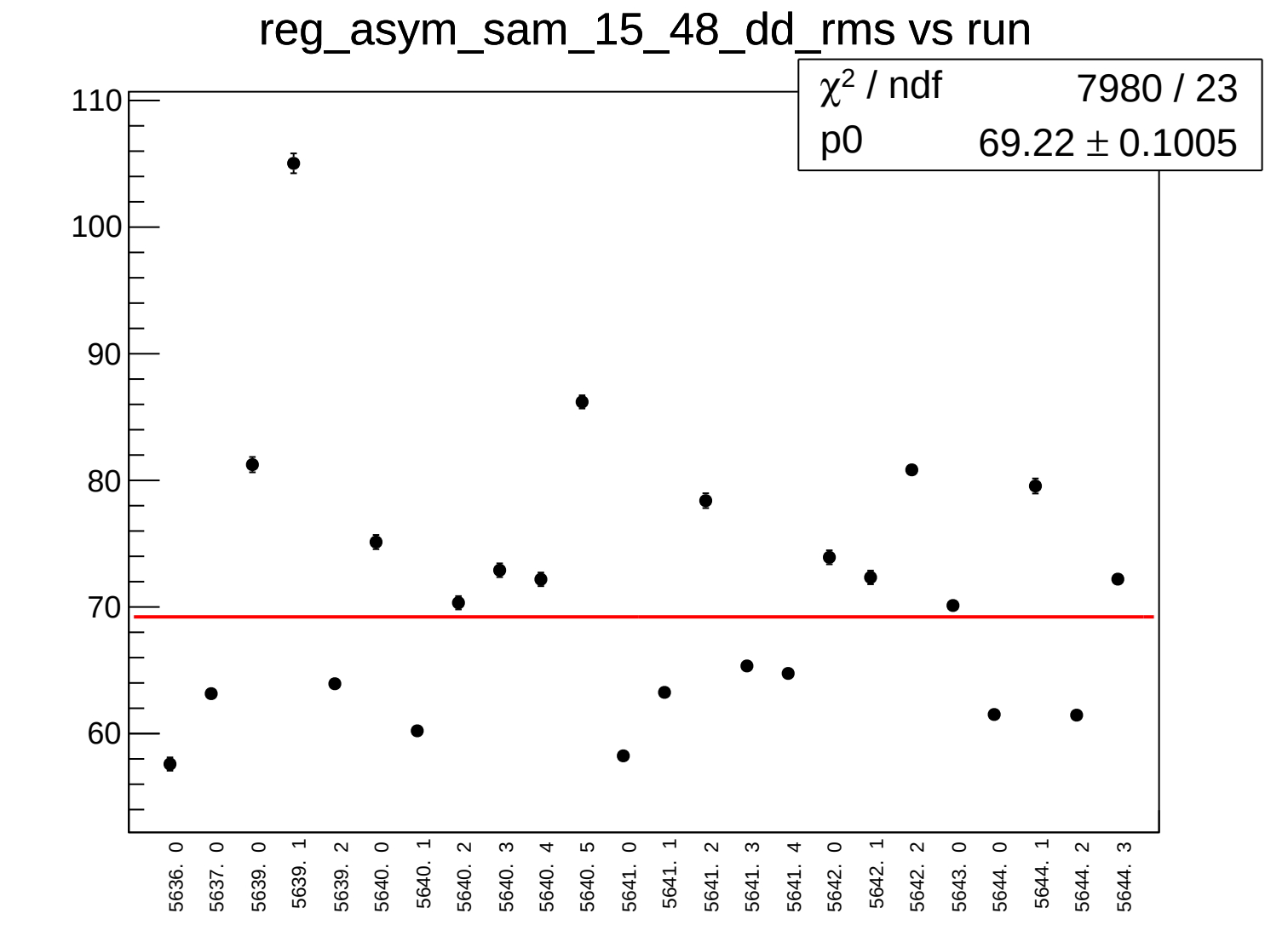

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9566 / 23
p0 67.84 ± 0.09867
100
90
80
70
60
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

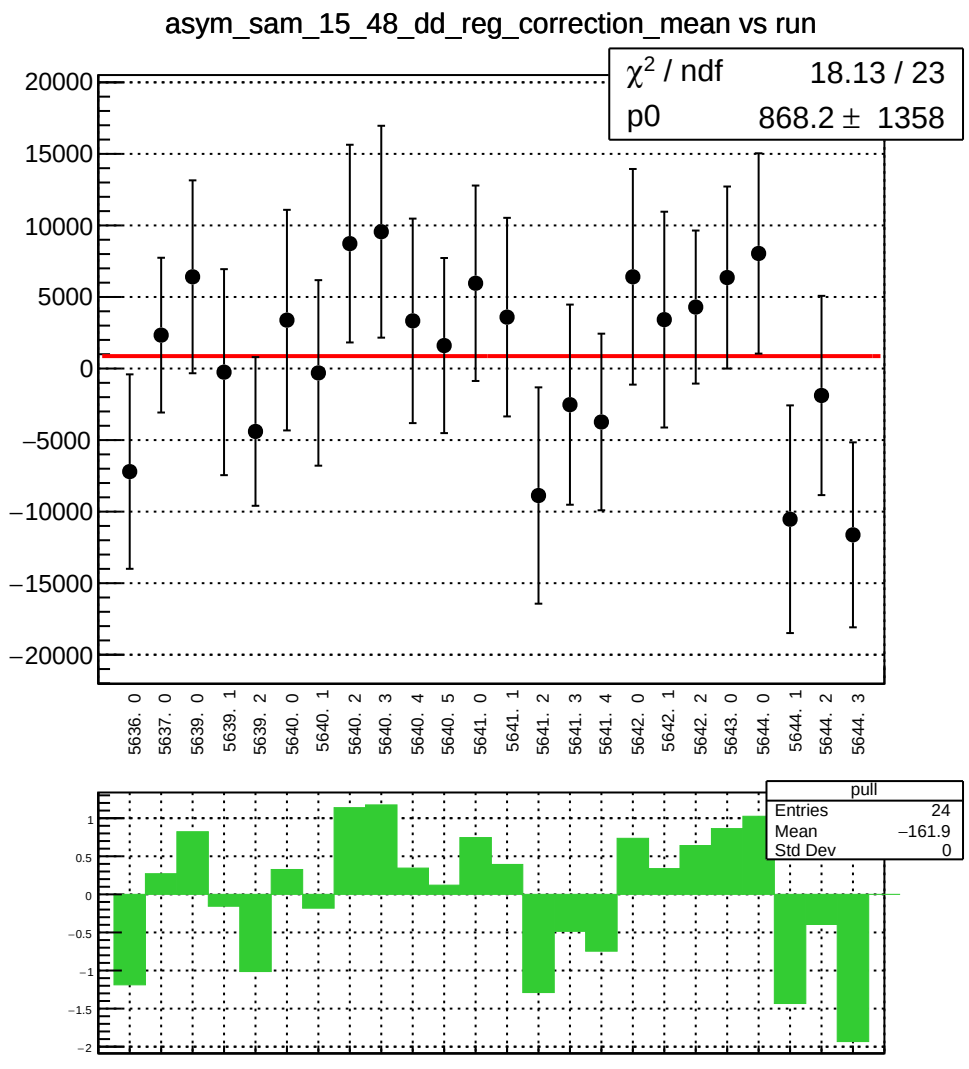

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 22.58 / 23
p0 −2.668e−14 ± 1.939e−13
6
4
2
0
−2
−4
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −4.373
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 24
Mean −0.09978
Std Dev 0.9649
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

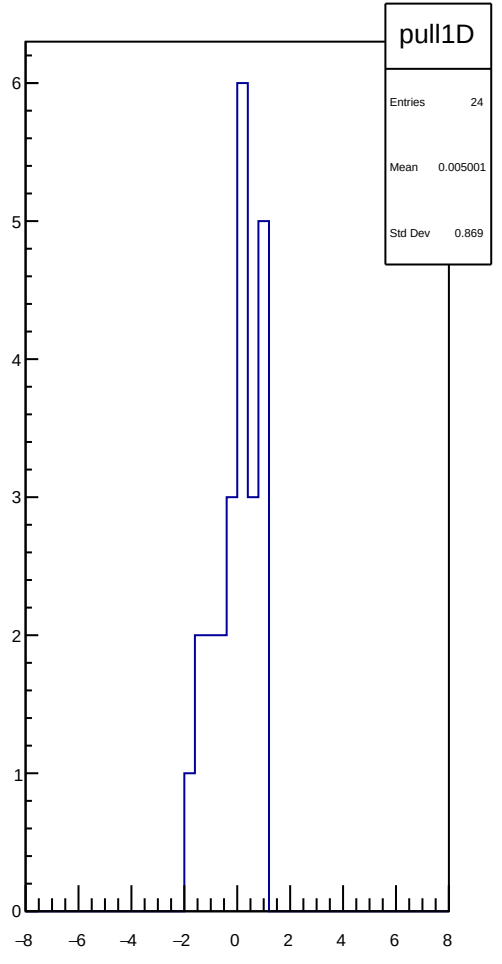

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.593e+05 / 23
p0 7.793e−11 ± 1.371e−13
0.3
0.25
0.2
0.15
0.1
0.05
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

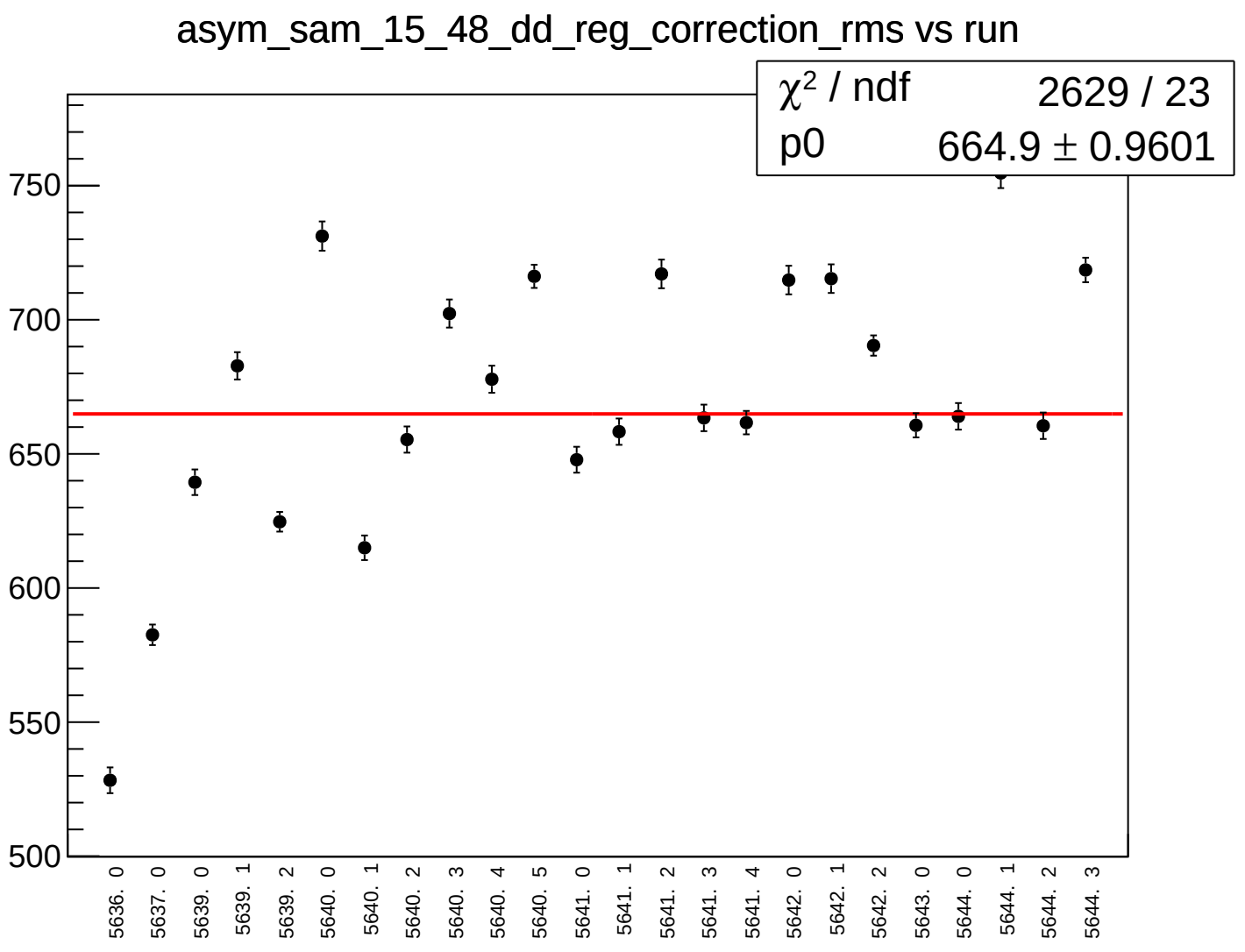

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 22.71 / 23
p0 68.88 ± 142.1
3000
2000
1000
0
−1000
−2000
−3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 46.94
Std Dev 0
2
1
0
−1
−2

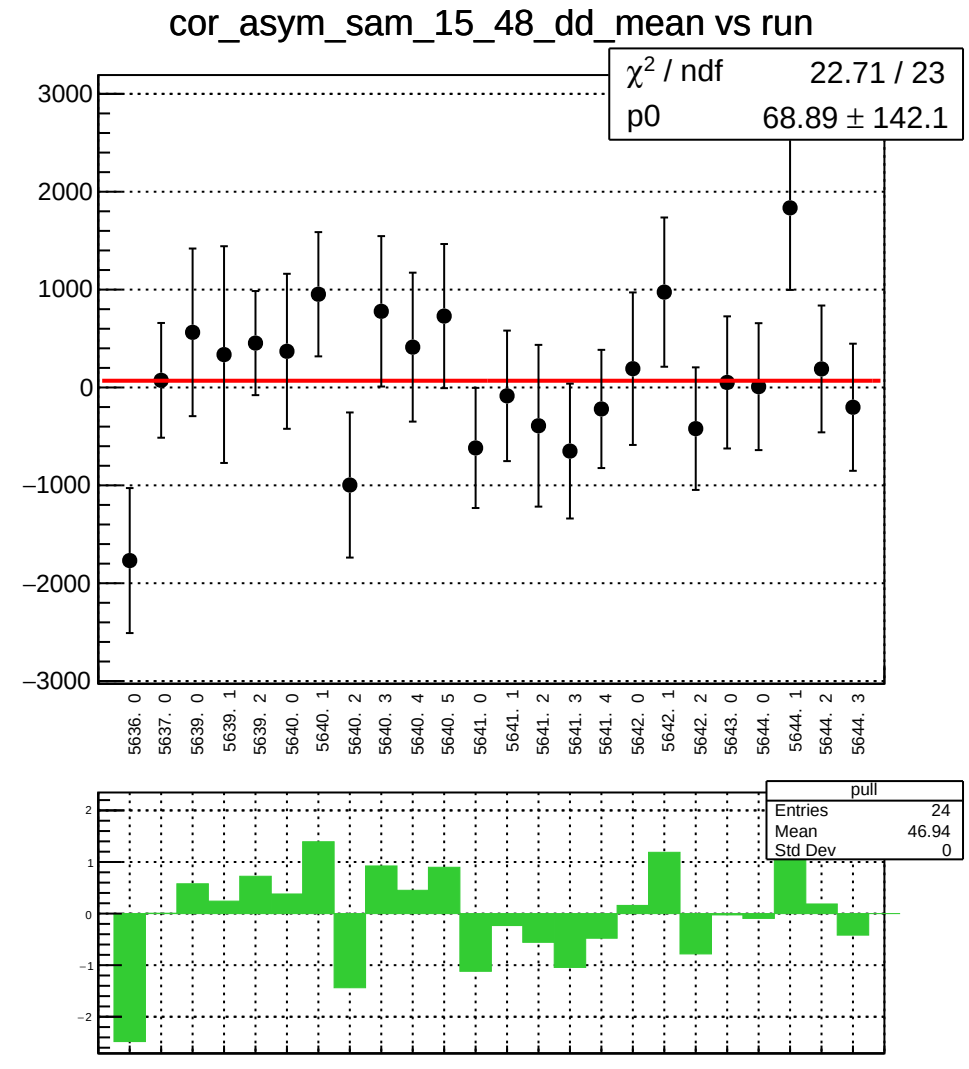

pull1D
Entries 24
Mean 0.02362
Std Dev 0.9724
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

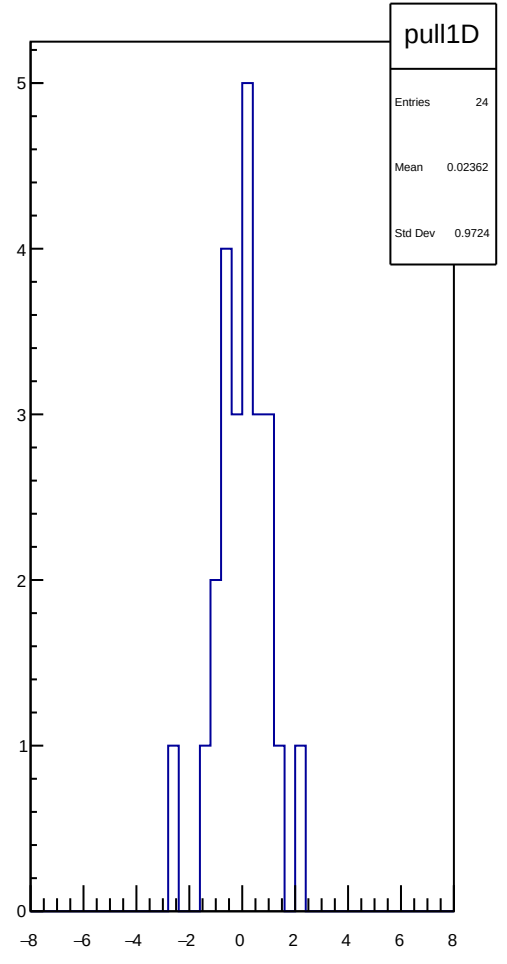

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 7980 / 23
p0 69.22 ± 0.1005
110
100
90
80
70
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

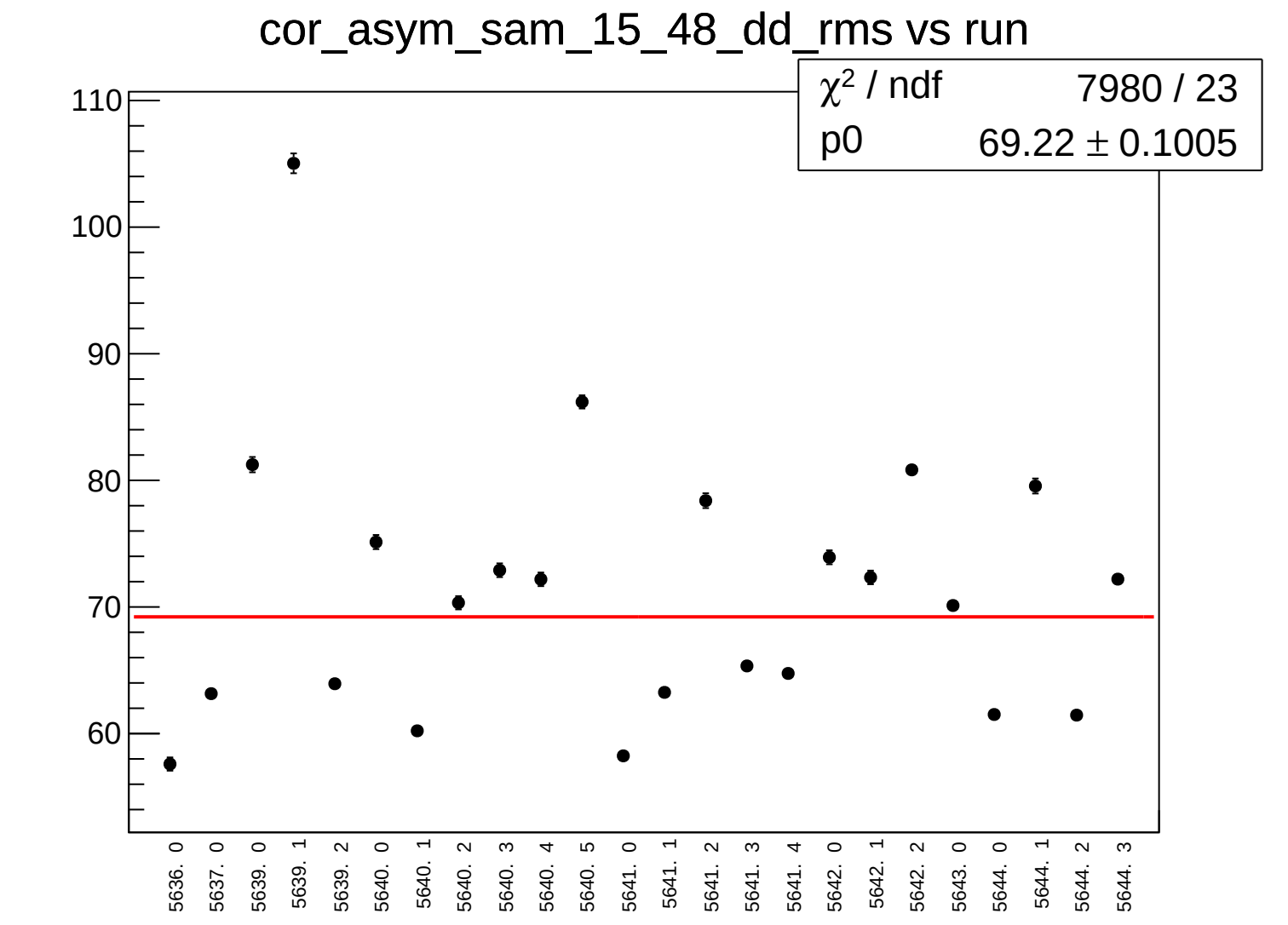

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 18.13 / 23
p0 868.2 ± 1358
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −161.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

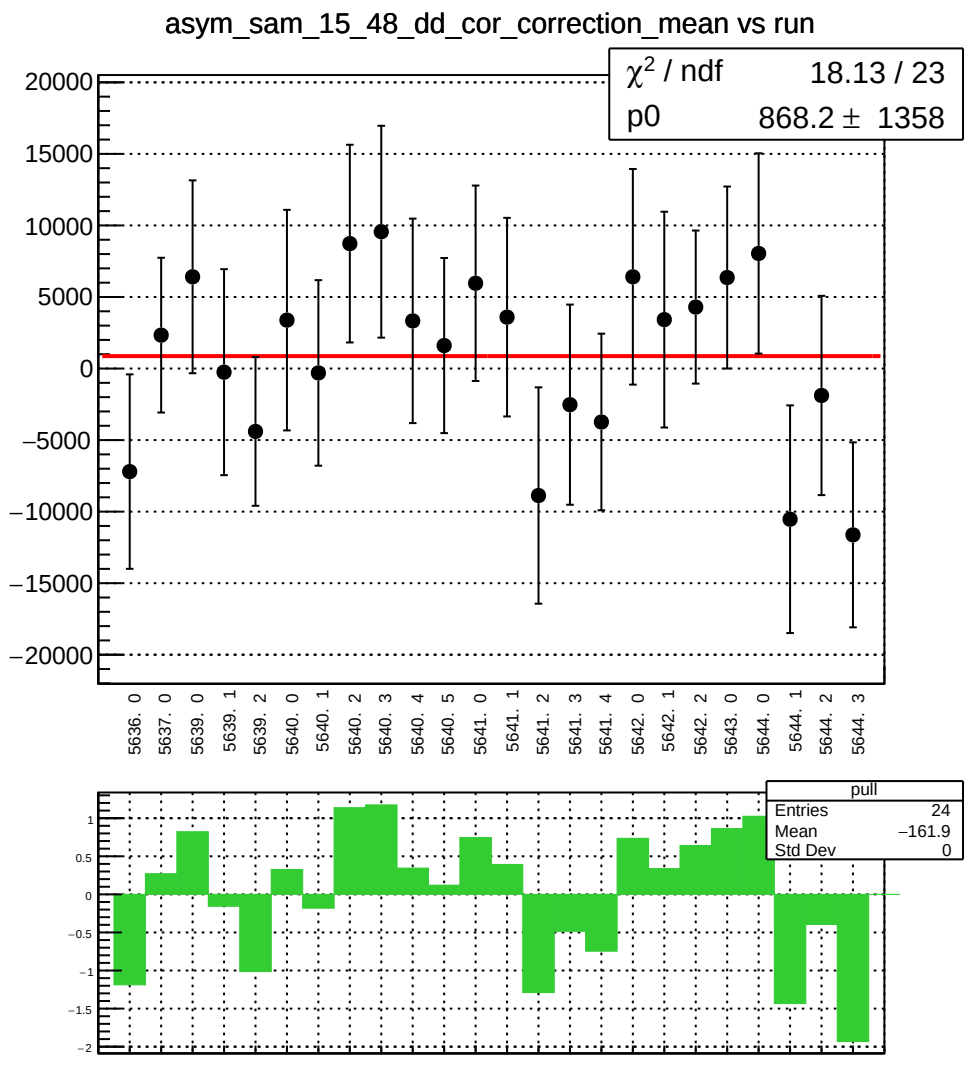

pull1D
Entries 24
Mean 0.005001
Std Dev 0.869
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

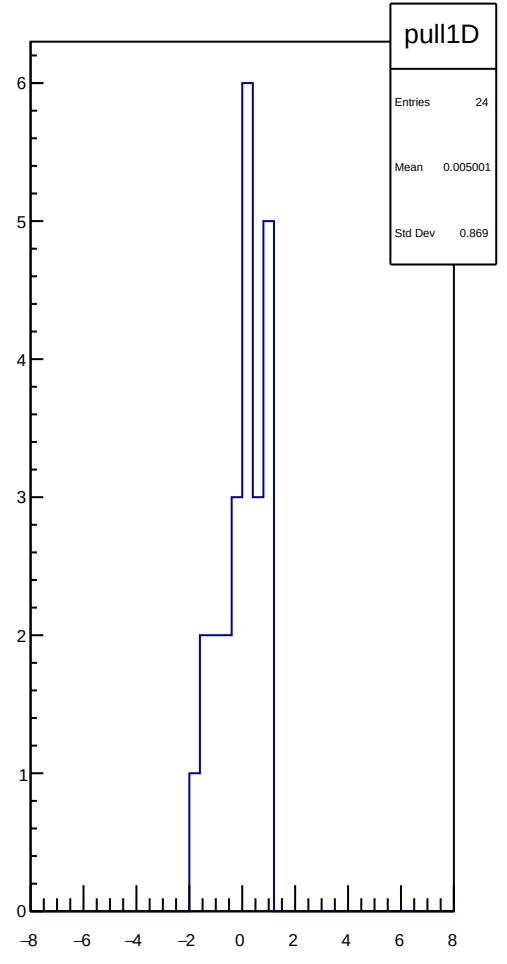

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 2629 / 23
p0 664.9 ± 0.9601
750
700
650
600
550
500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

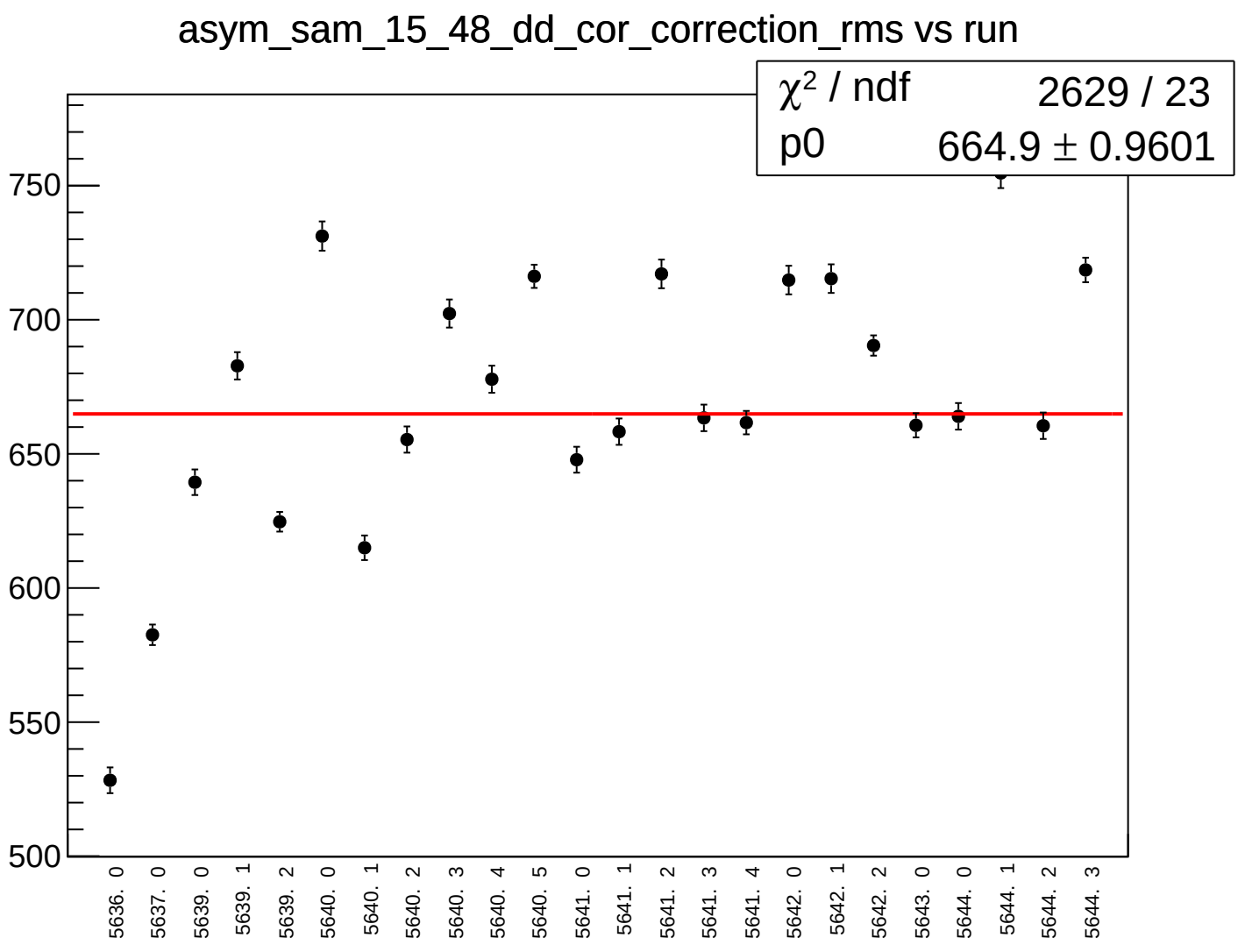

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 22.71 / 23
p0 68.89 ± 142.1
3000
2000
1000
0
−1000
−2000
−3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 46.94
Std Dev 0
2
1
0
−1
−2

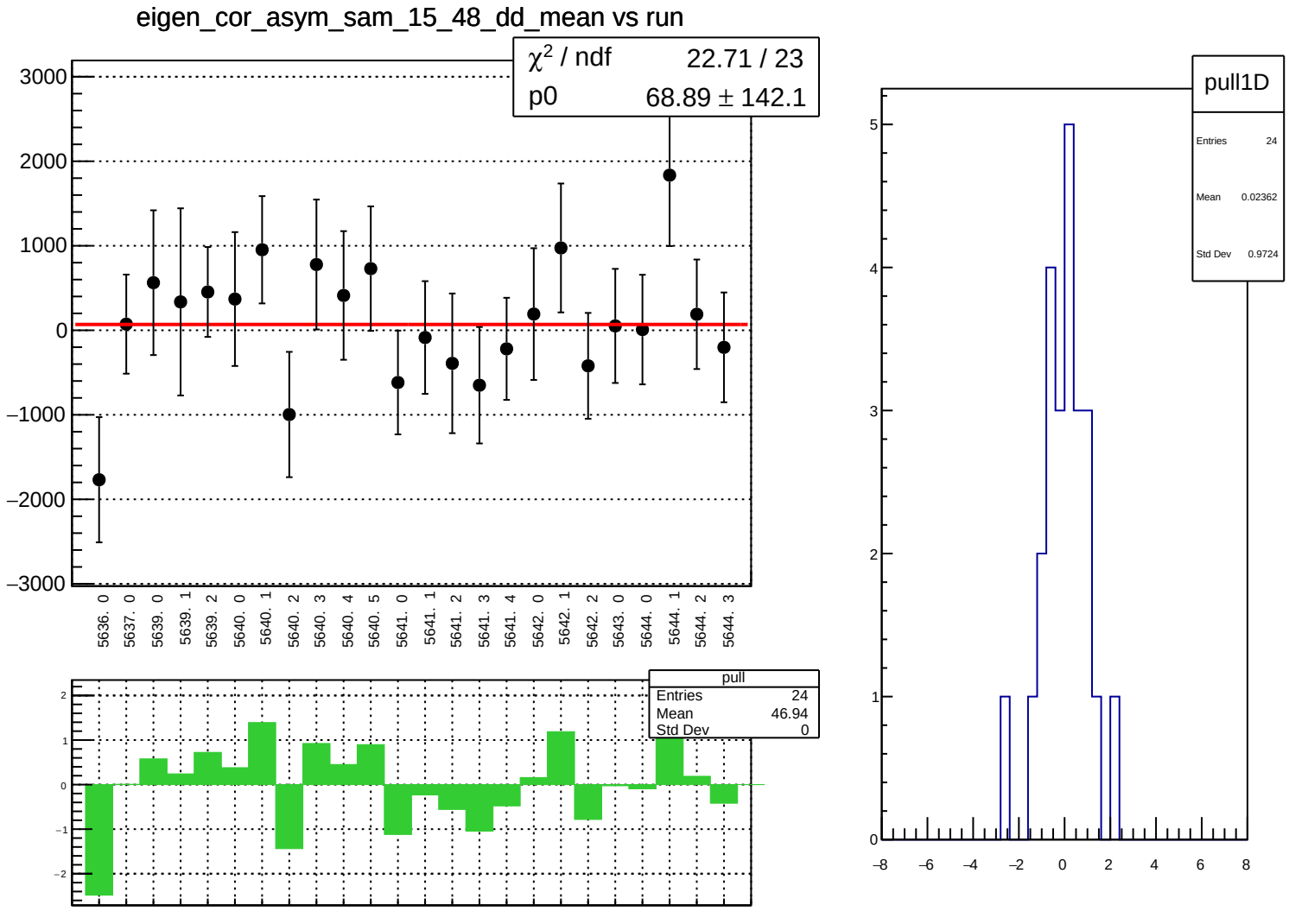

pull1D
Entries 24
Mean 0.02362
Std Dev 0.9724
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

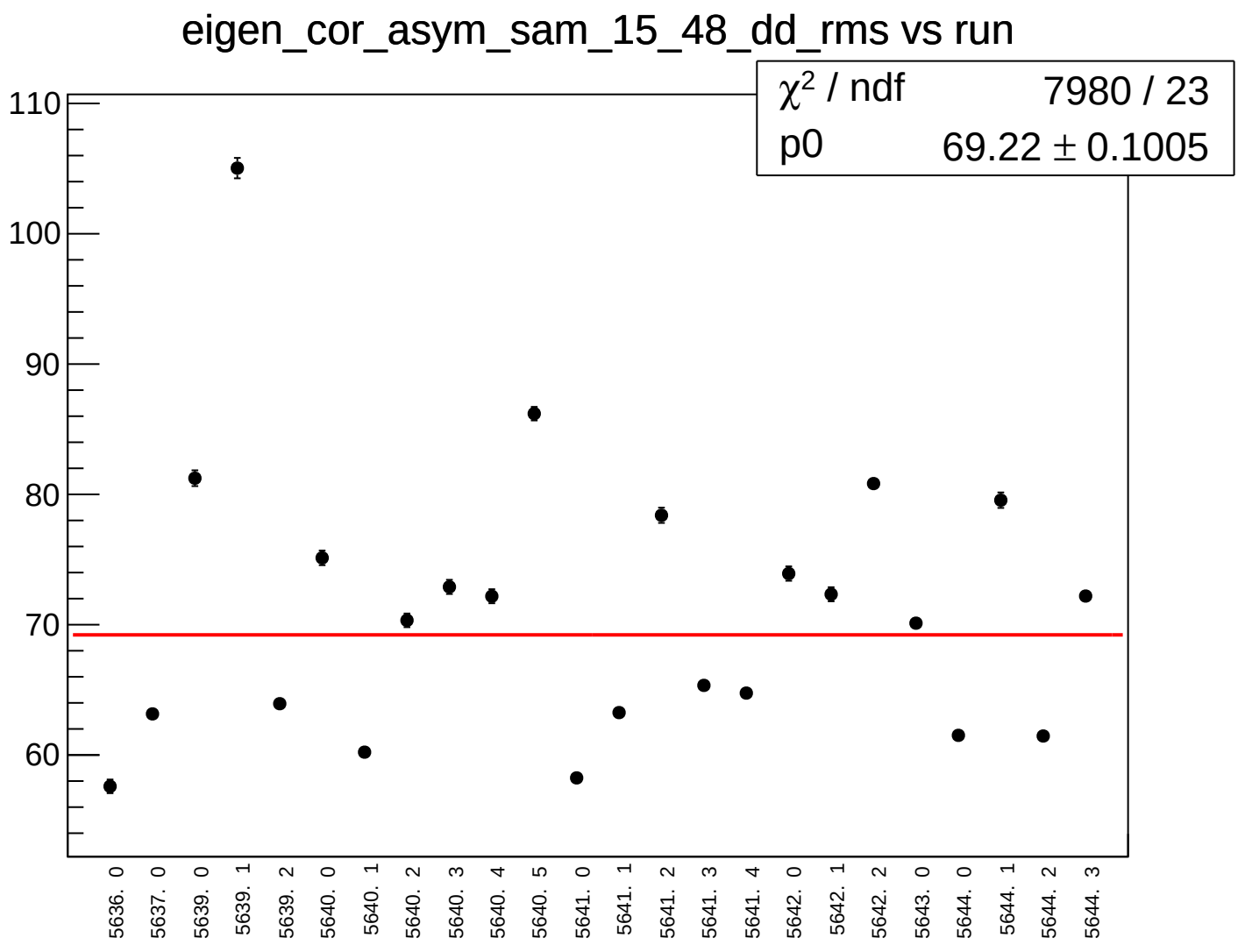

cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 7980 / 23
p0 69.22 ± 0.1005
110
100
90
80
70
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

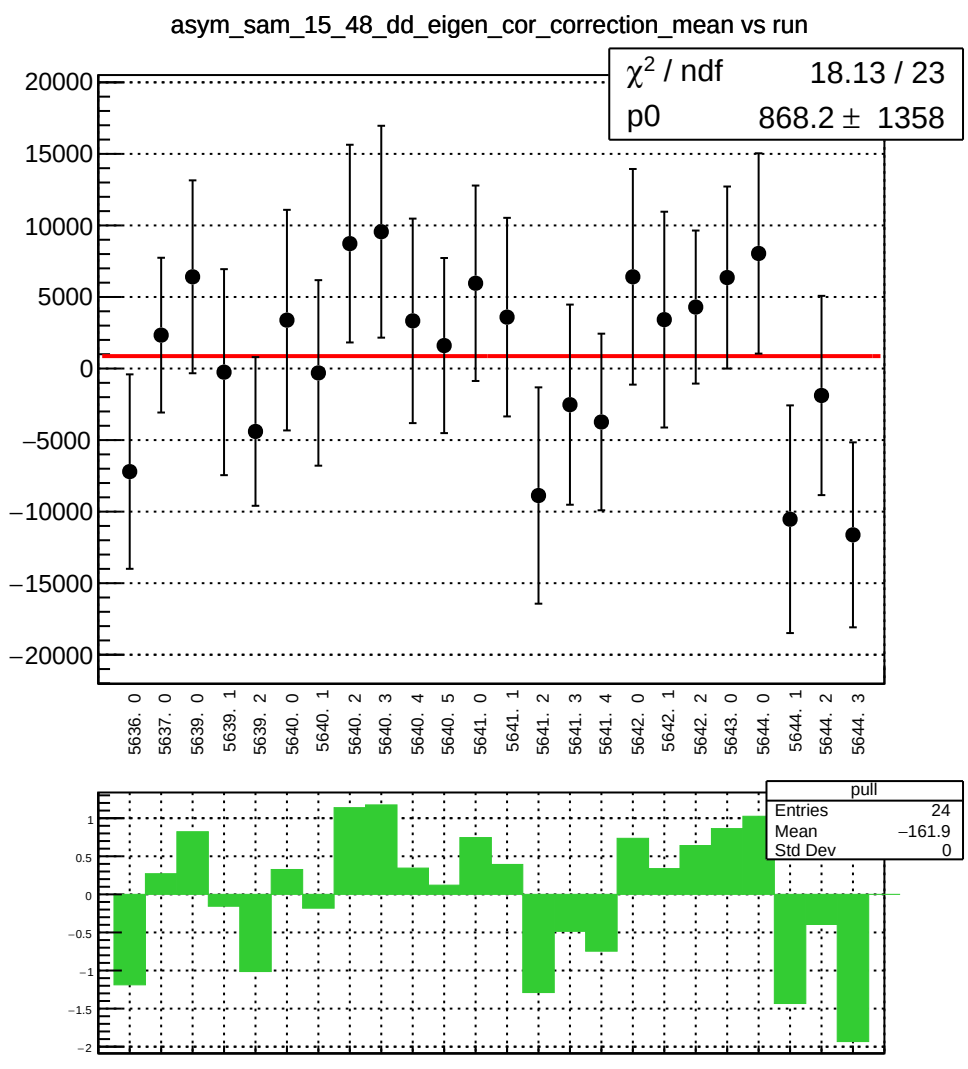

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 18.13 / 23
p0 868.2 ± 1358
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −161.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

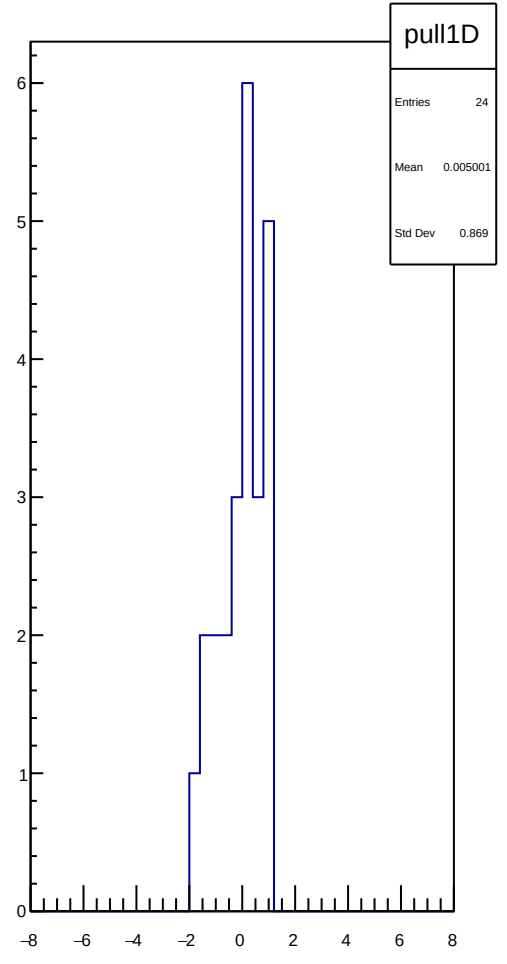

pull1D
Entries 24
Mean 0.005001
Std Dev 0.869
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

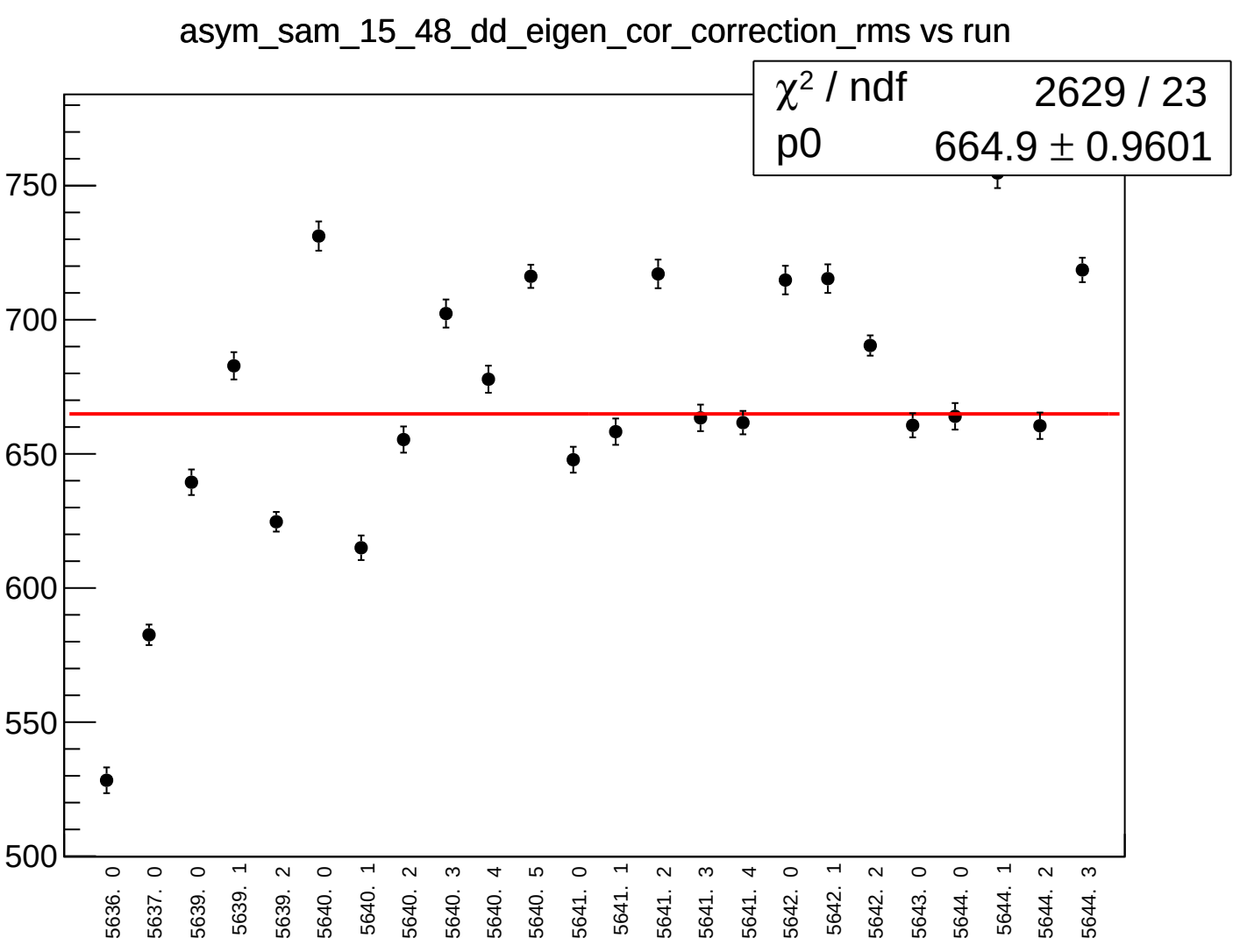

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 2629 / 23
p0 664.9 ± 0.9601
750
700
650
600
550
500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

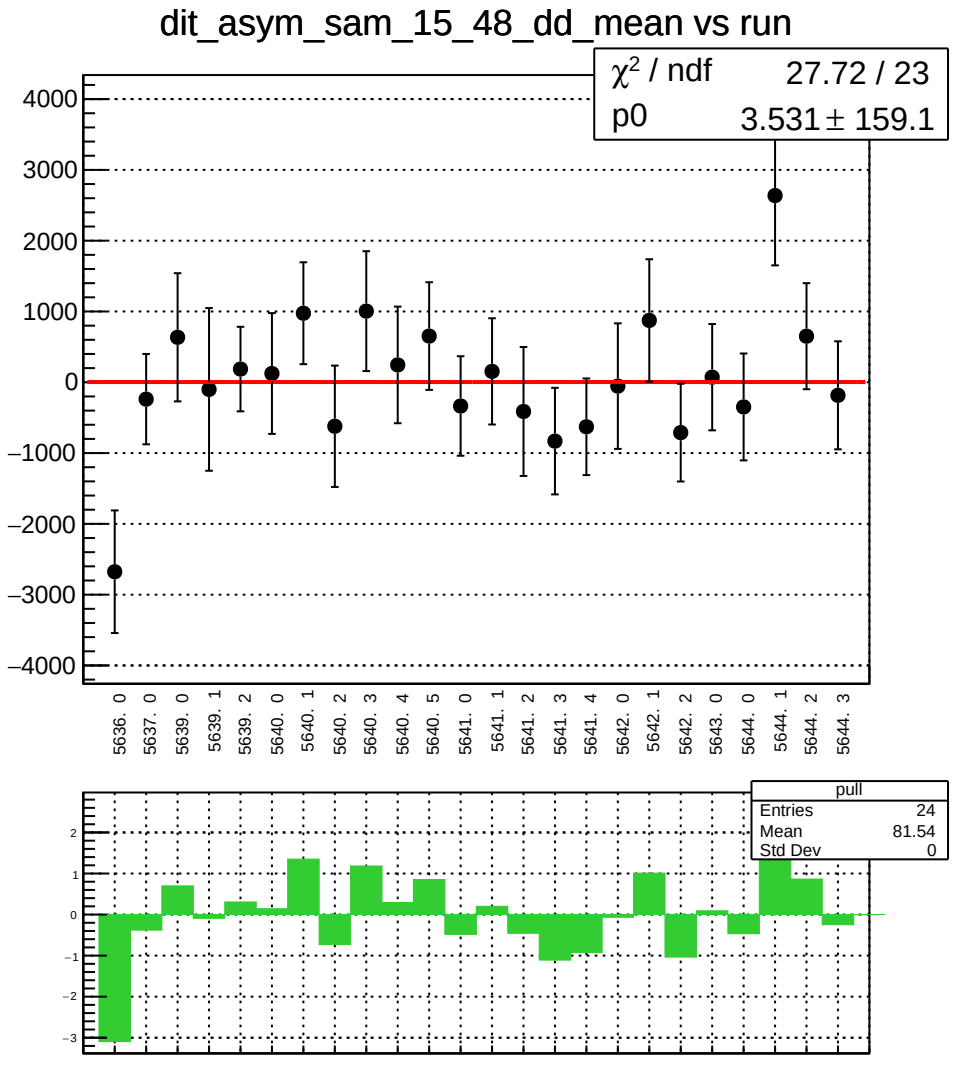

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 22.71 / 23
p0 68.89 ± 142.1
3000
2000
1000
0
−1000
−2000
−3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 46.94
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 24
Mean 0.02362
Std Dev 0.9724
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

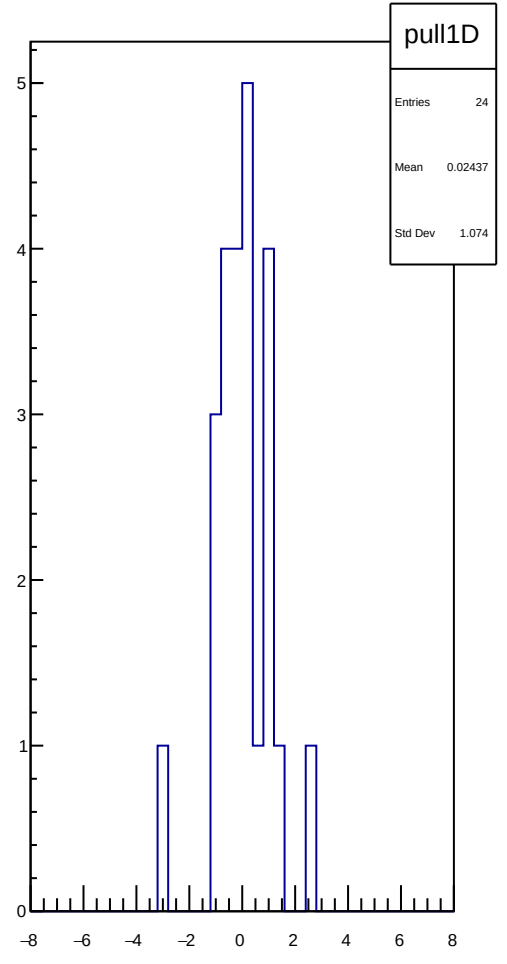

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 7980 / 23
p0 69.22 ± 0.1005
110
100
90
80
70
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

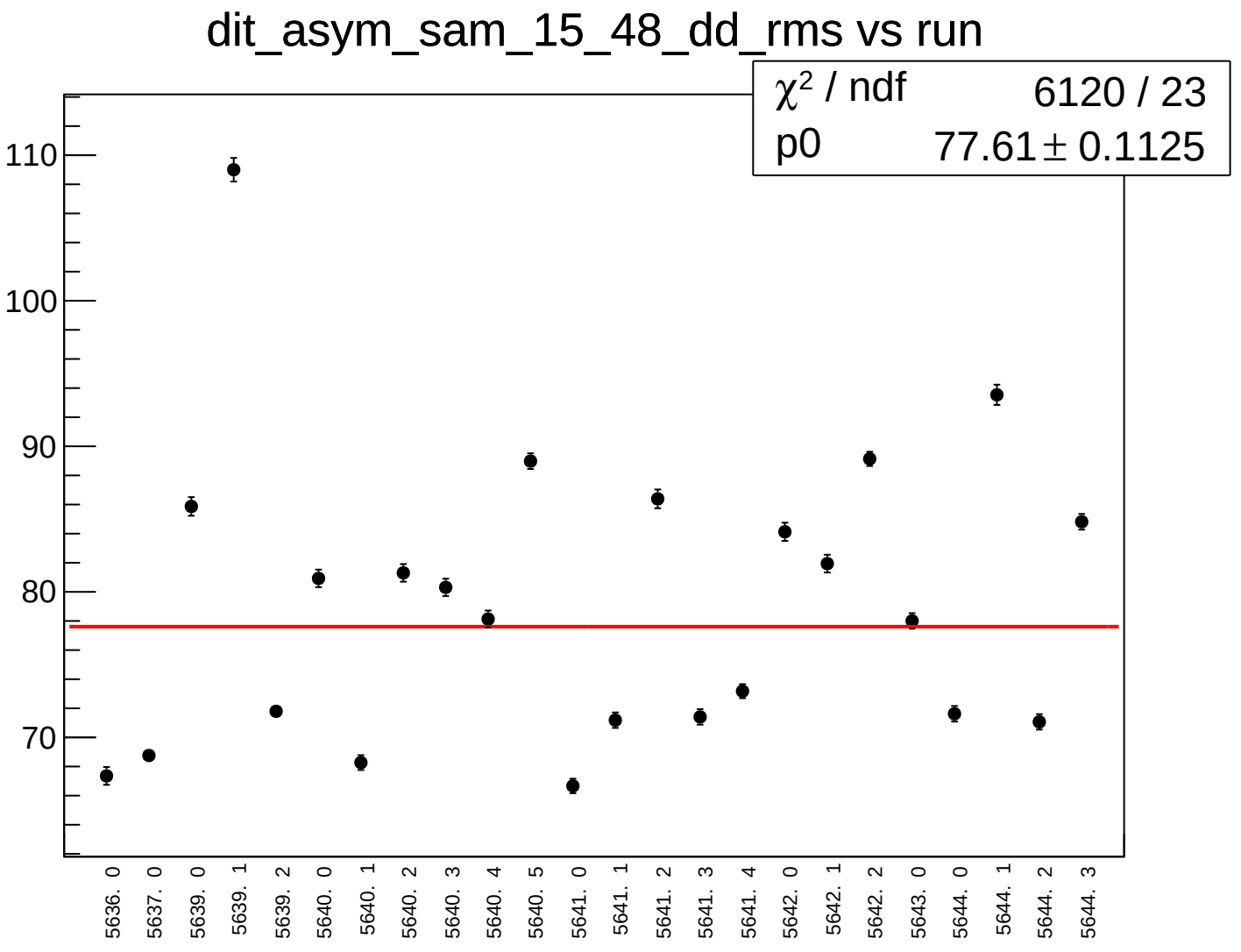

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 18.13 / 23
p0 868.2 ± 1358
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −161.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

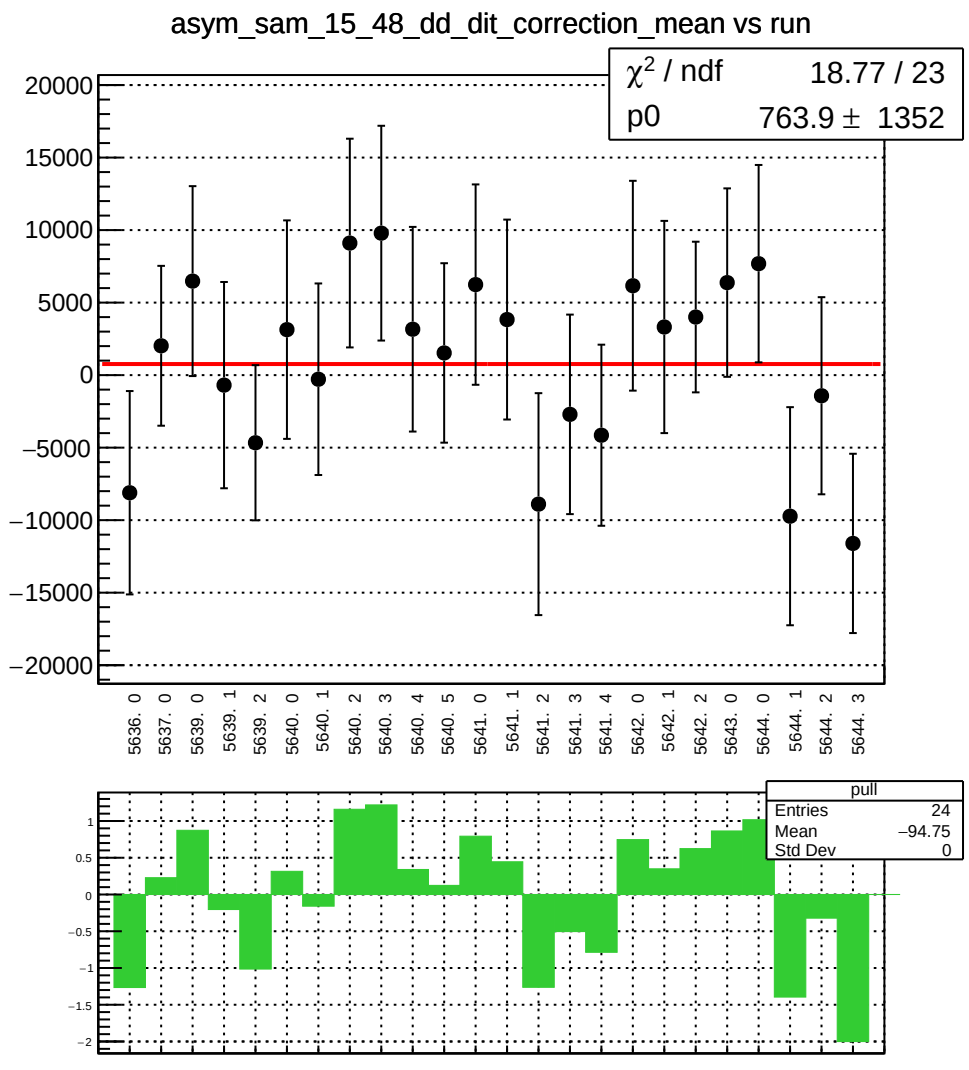

pull1D
Entries 24
Mean 0.005001
Std Dev 0.869
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

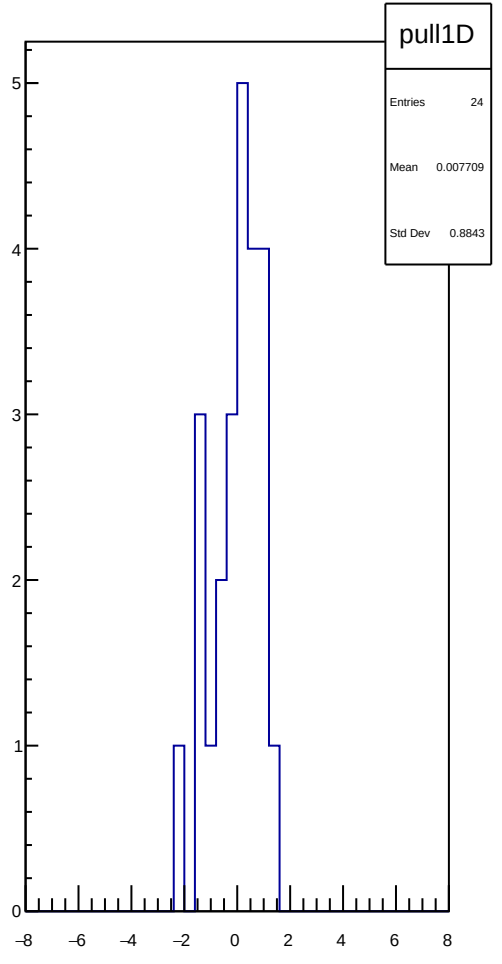

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2629 / 23
p0 664.9 ± 0.9601
750
700
650
600
550
500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

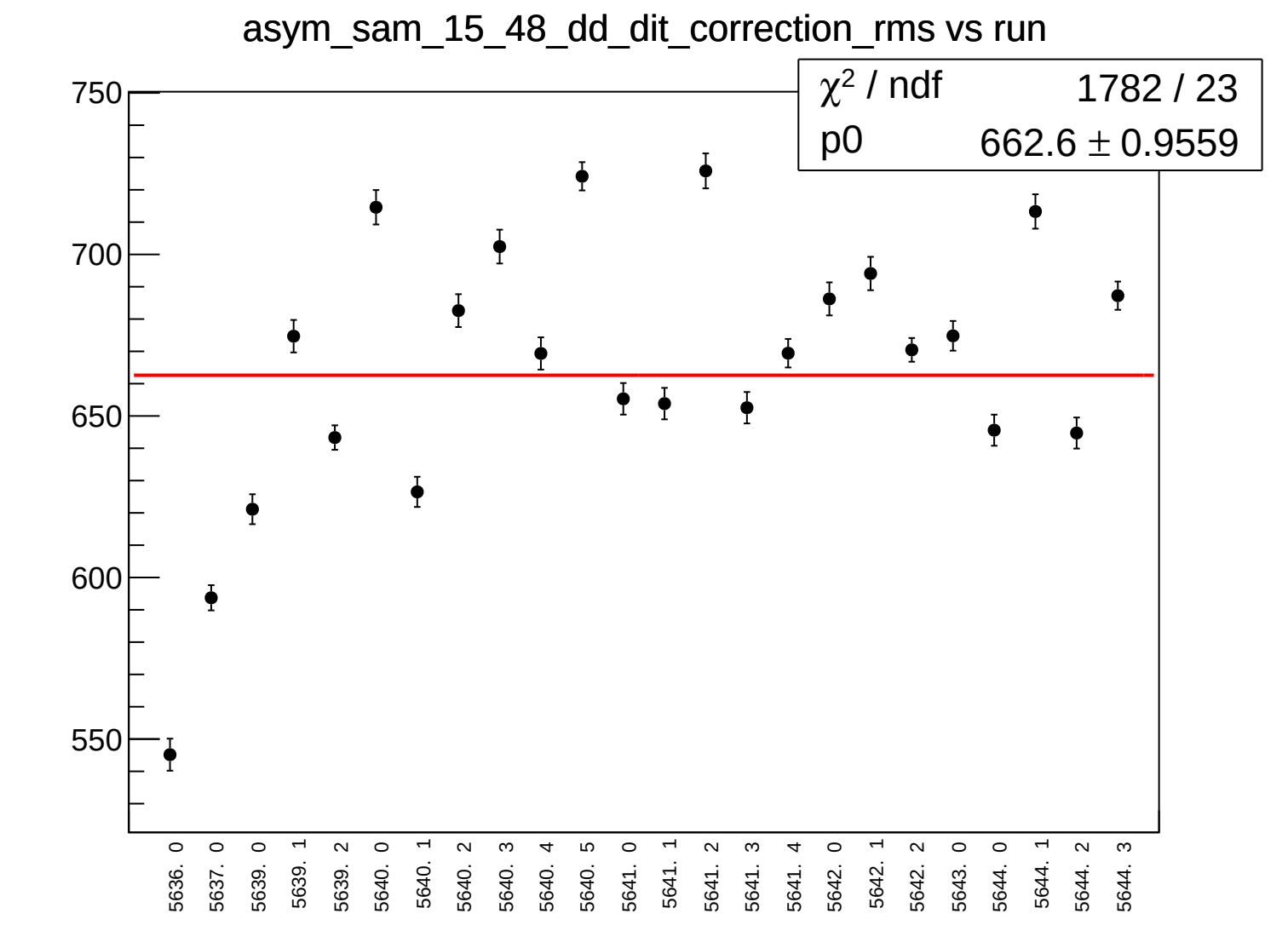

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 27.72 / 23
p0 3.531 ± 159.1
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 81.54
Std Dev 0
2
1
0
−1
−2
−3

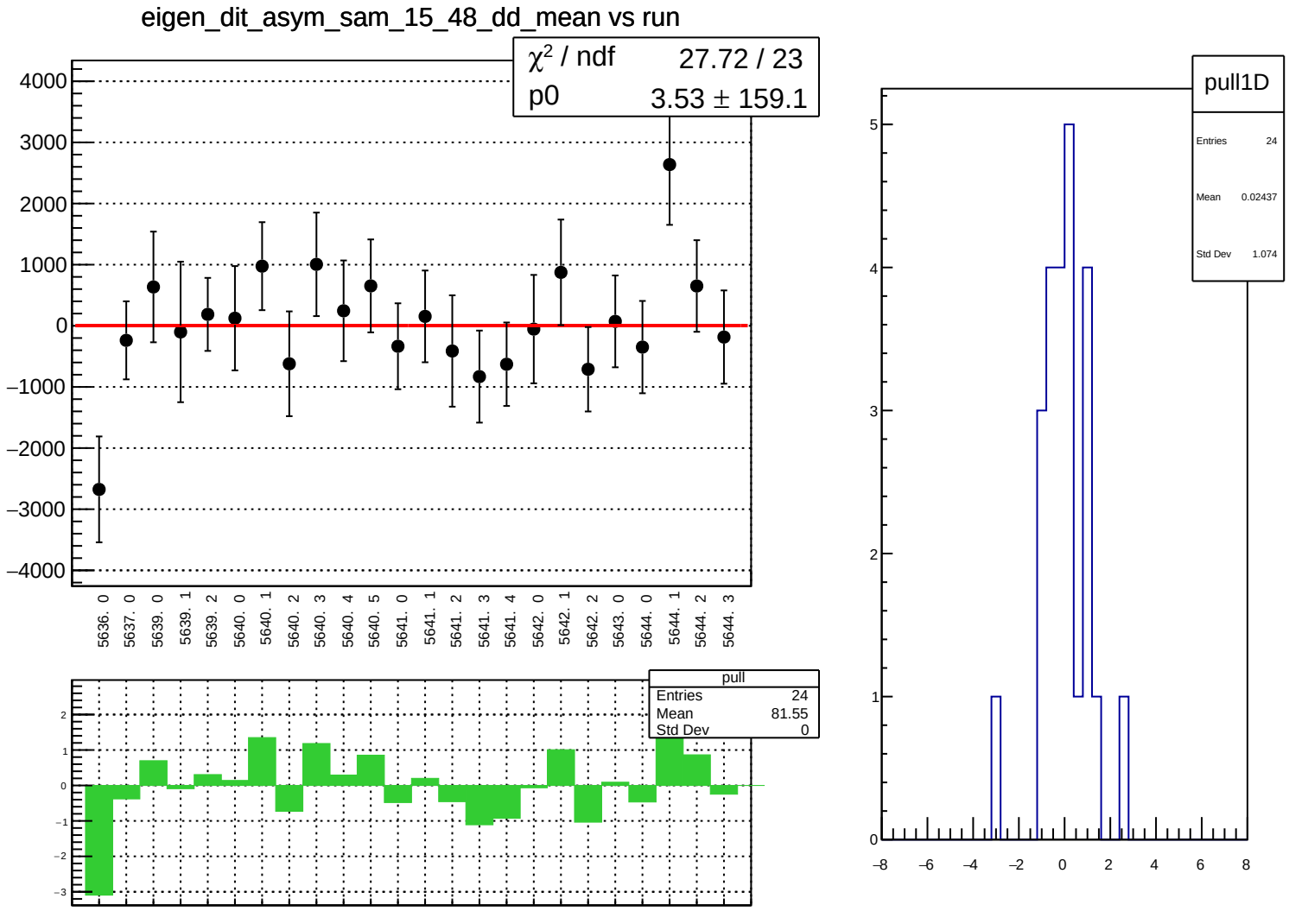

pull1D
Entries 24
Mean 0.02437
Std Dev 1.074
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

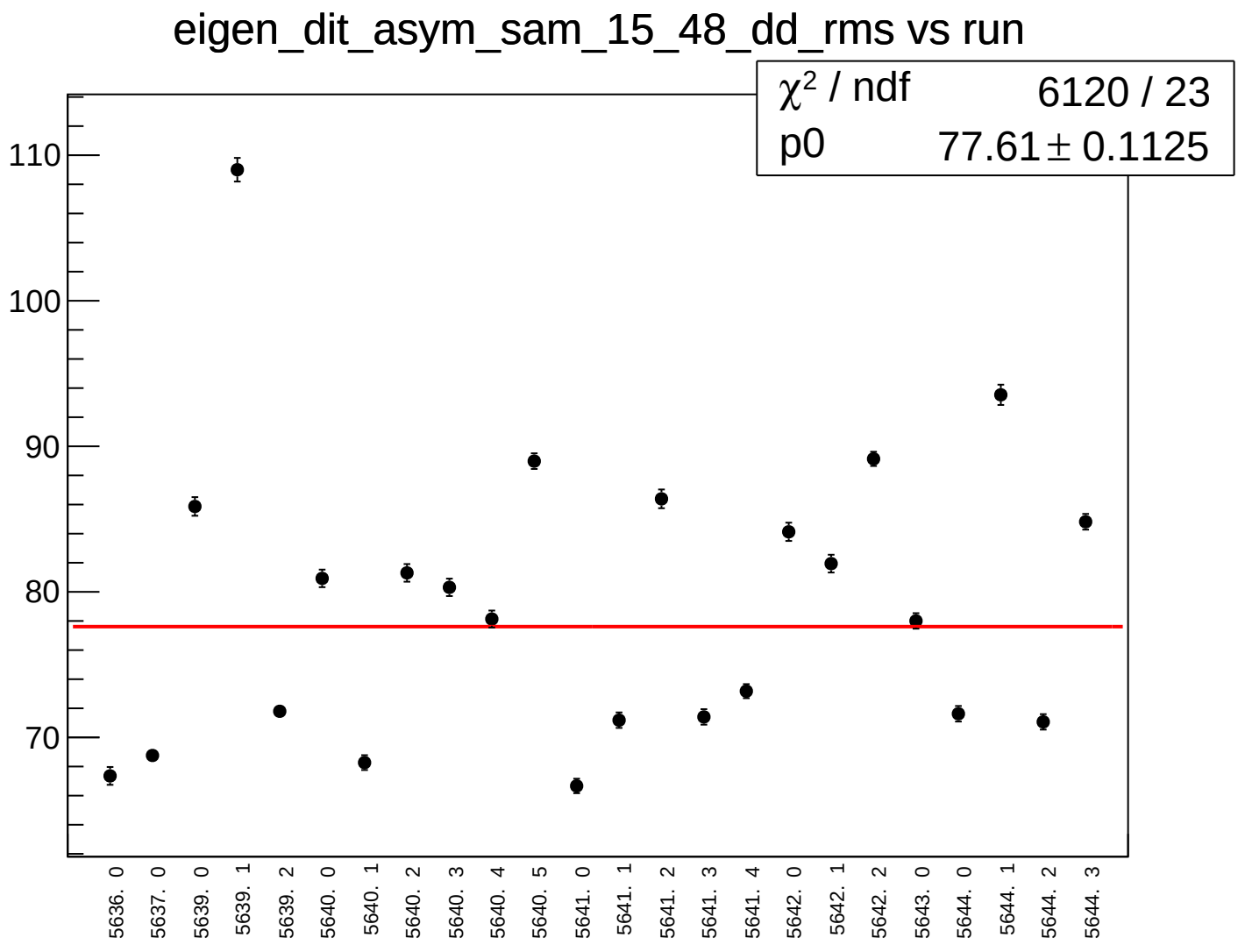

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 6120 / 23
p0 77.61 ± 0.1125
110
100
90
80
70
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

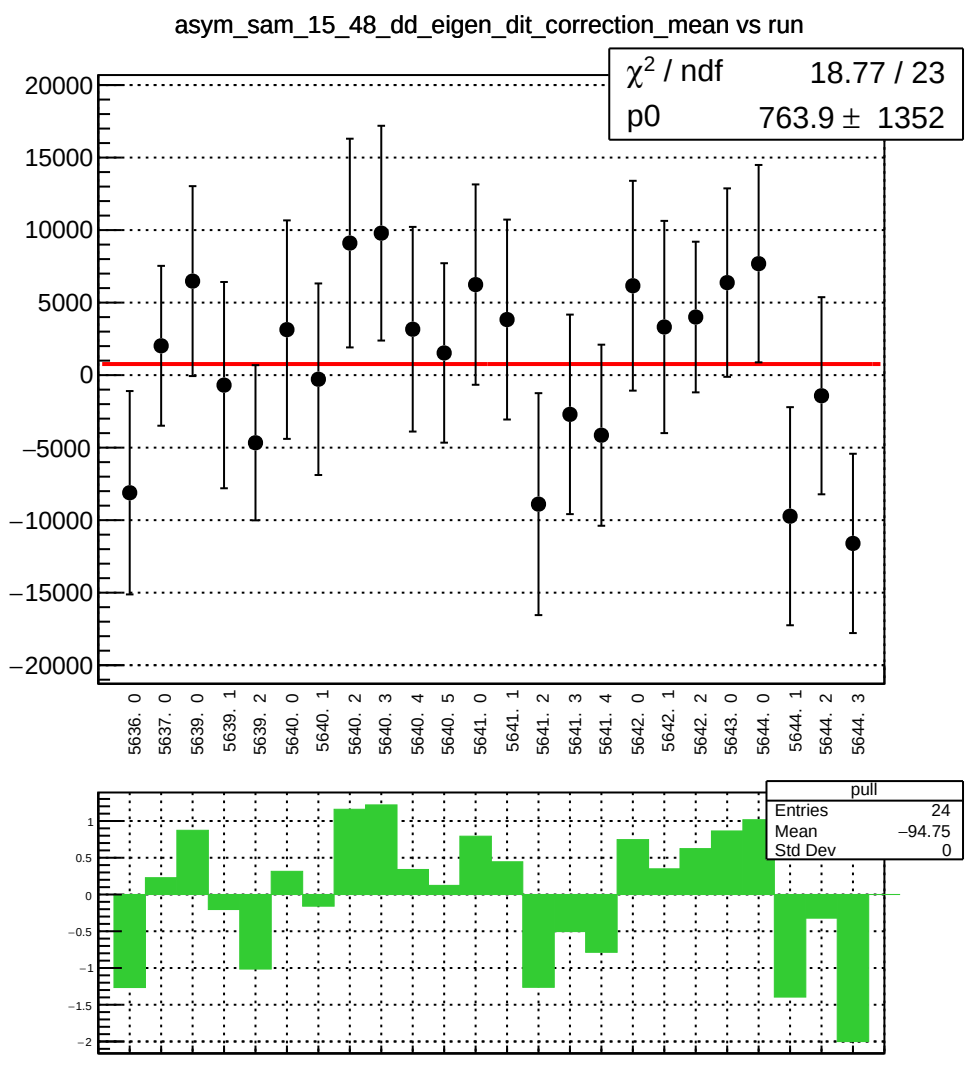

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 18.77 / 23
p0 763.9 ± 1352
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −94.75
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

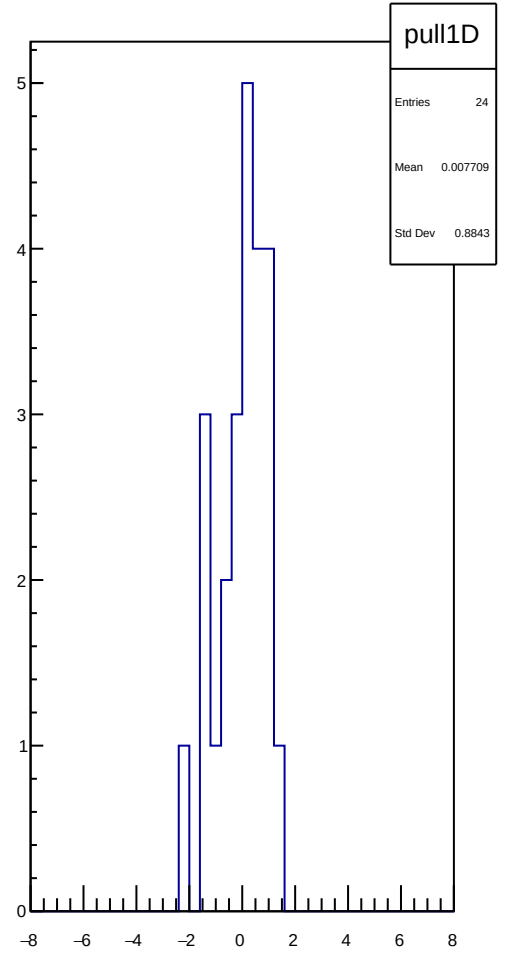

pull1D
Entries 24
Mean 0.007709
Std Dev 0.8843
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

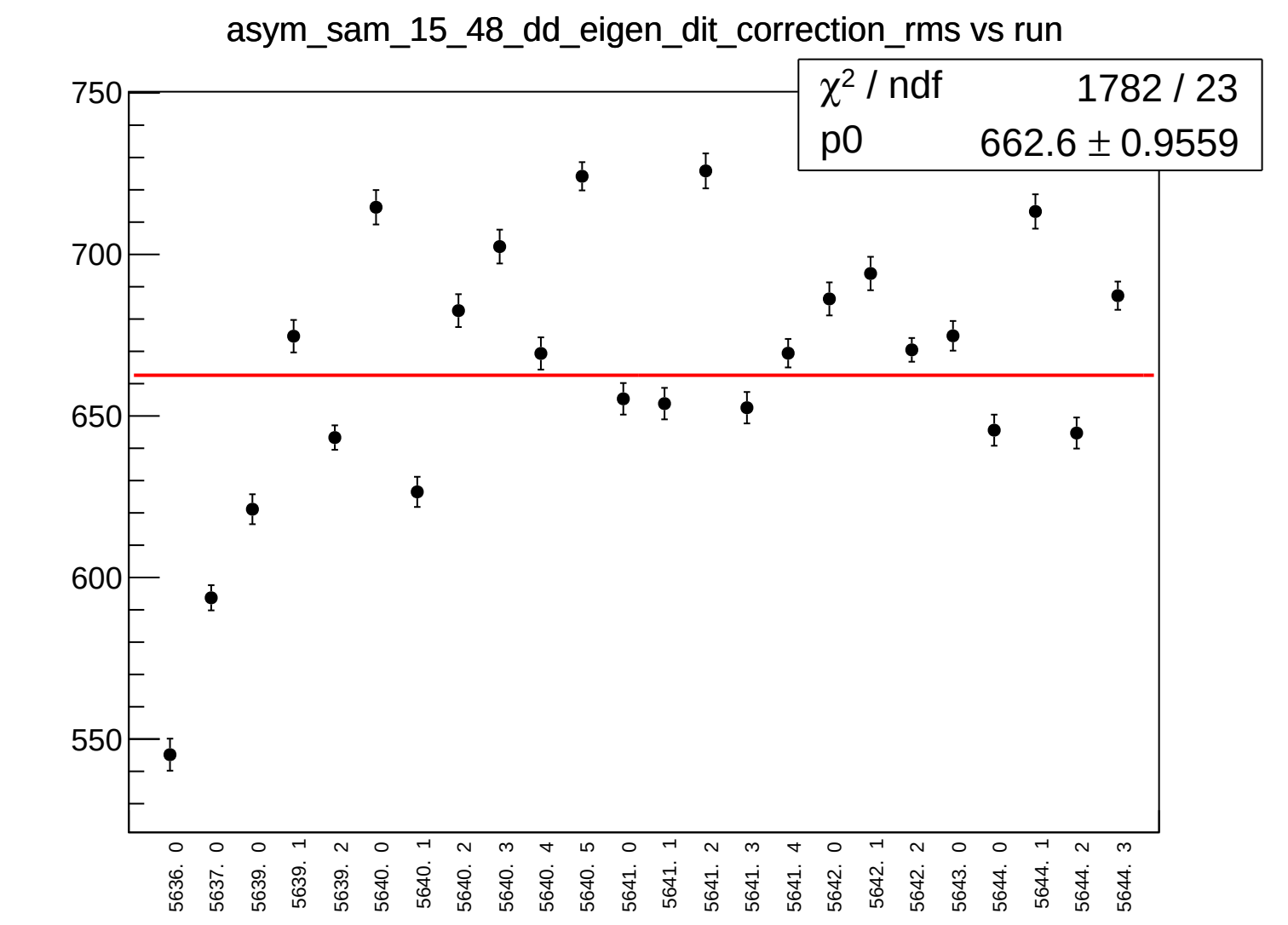

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 1782 / 23
p0 662.6 ± 0.9559
750
700
650
600
550
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

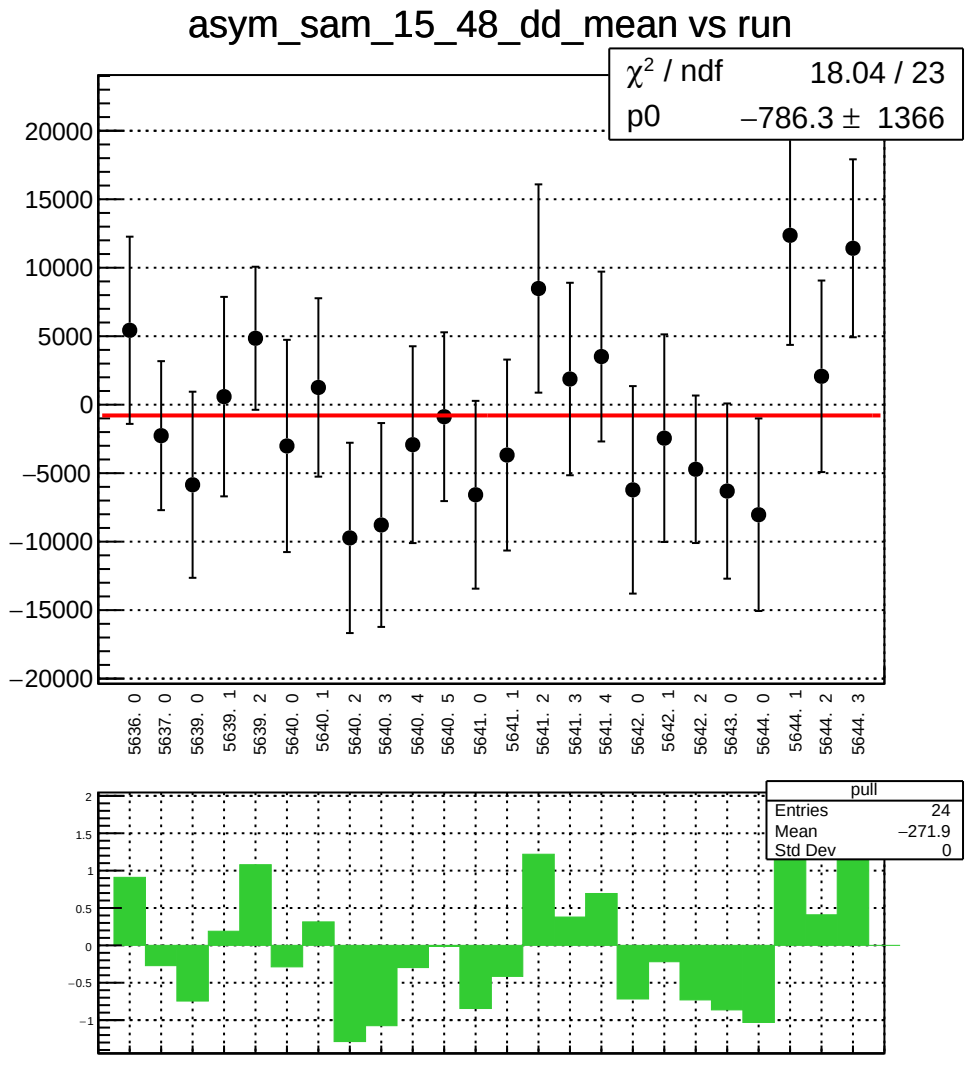

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 27.72 / 23
p0 3.53 ± 159.1
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 81.55
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean 0.02437
Std Dev 1.074
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

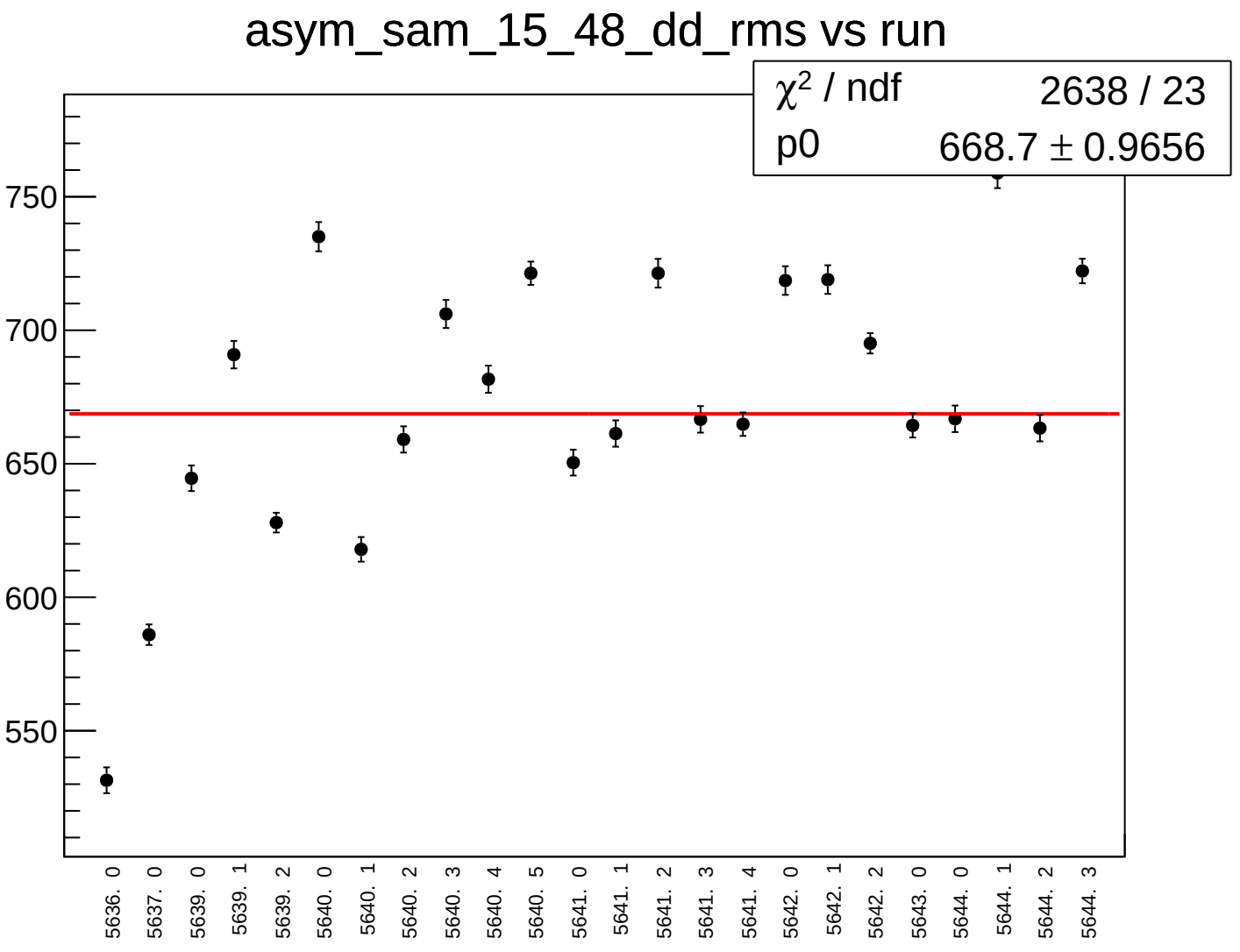

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 6120 / 23
p0 77.61 ± 0.1125
110
100
90
80
70
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 18.77 / 23
p0 763.9 ± 1352
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −94.75
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean 0.007709
Std Dev 0.8843
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1782 / 23
p0 662.6 ± 0.9559
750
700
650
600
550
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_15_48_dd_mean vs run
χ² / ndf 18.04 / 23
p0 −786.3 ± 1366
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −271.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.003338
Std Dev 0.8669
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_48_dd_rms vs run
χ² / ndf 2638 / 23
p0 668.7 ± 0.9656
750
700
650
600
550
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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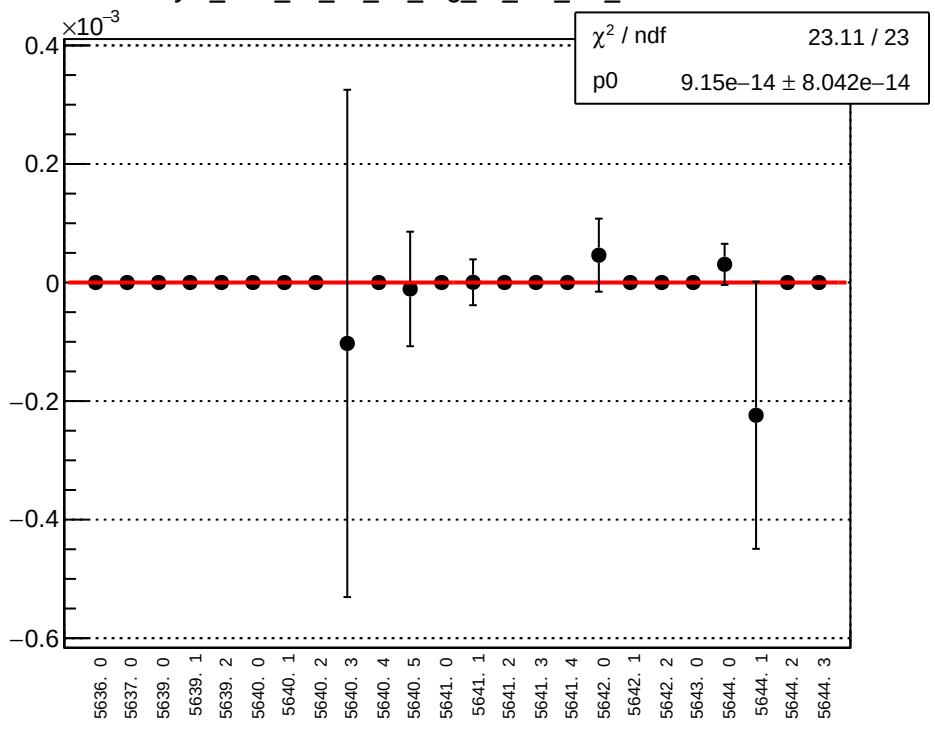
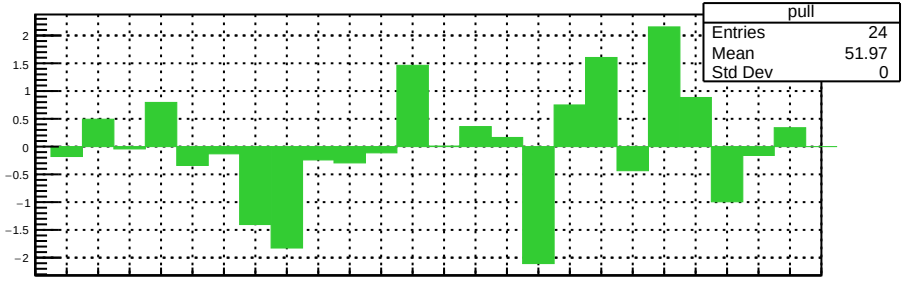
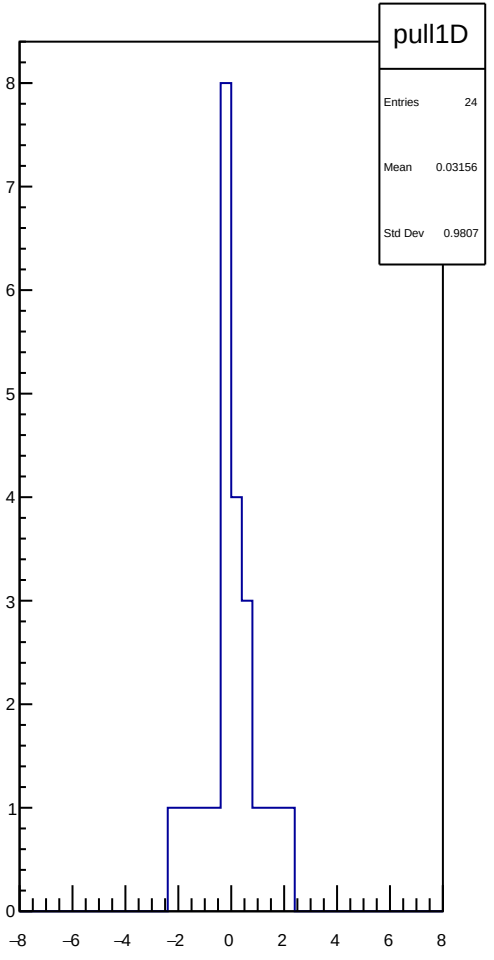
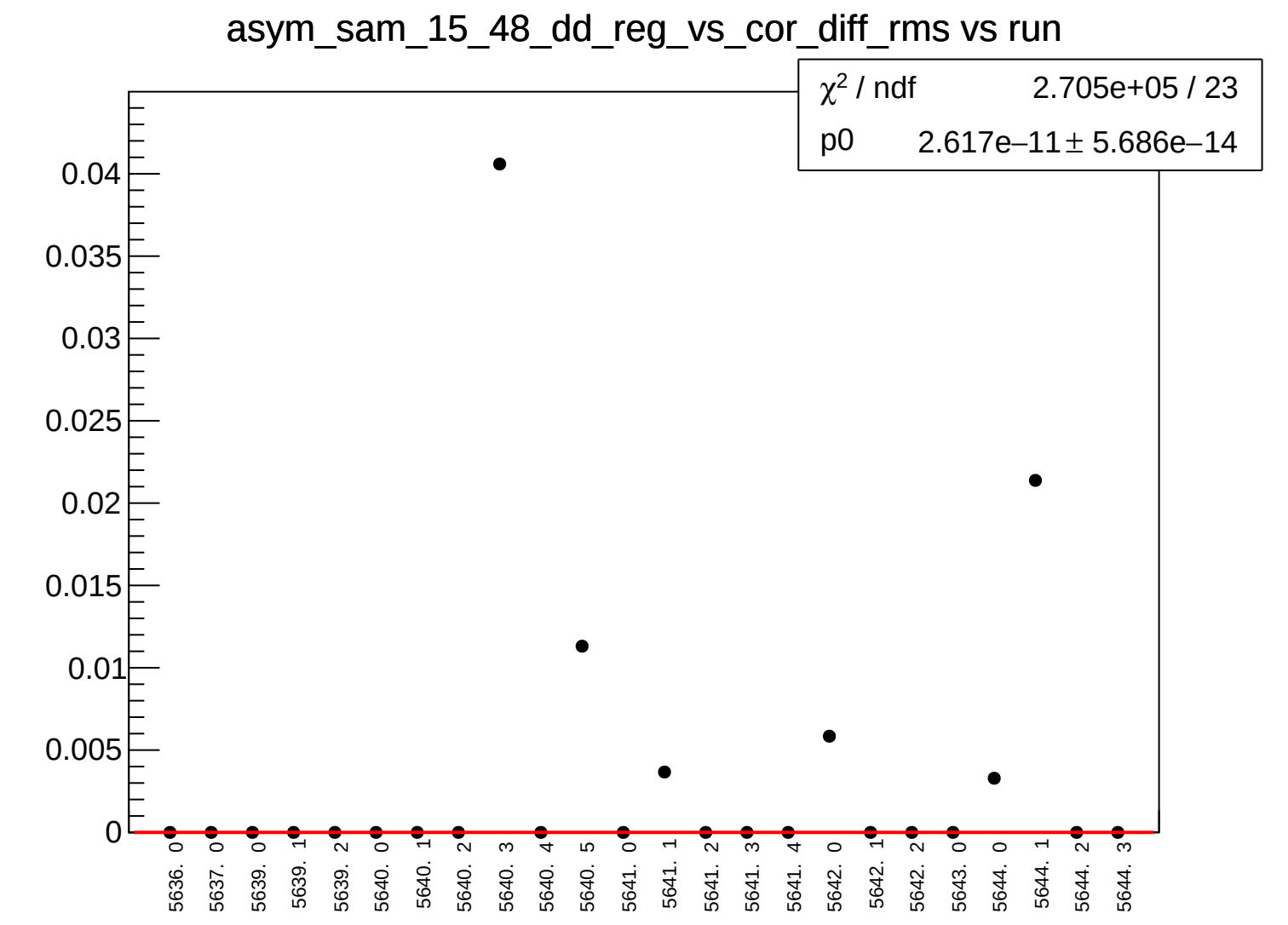
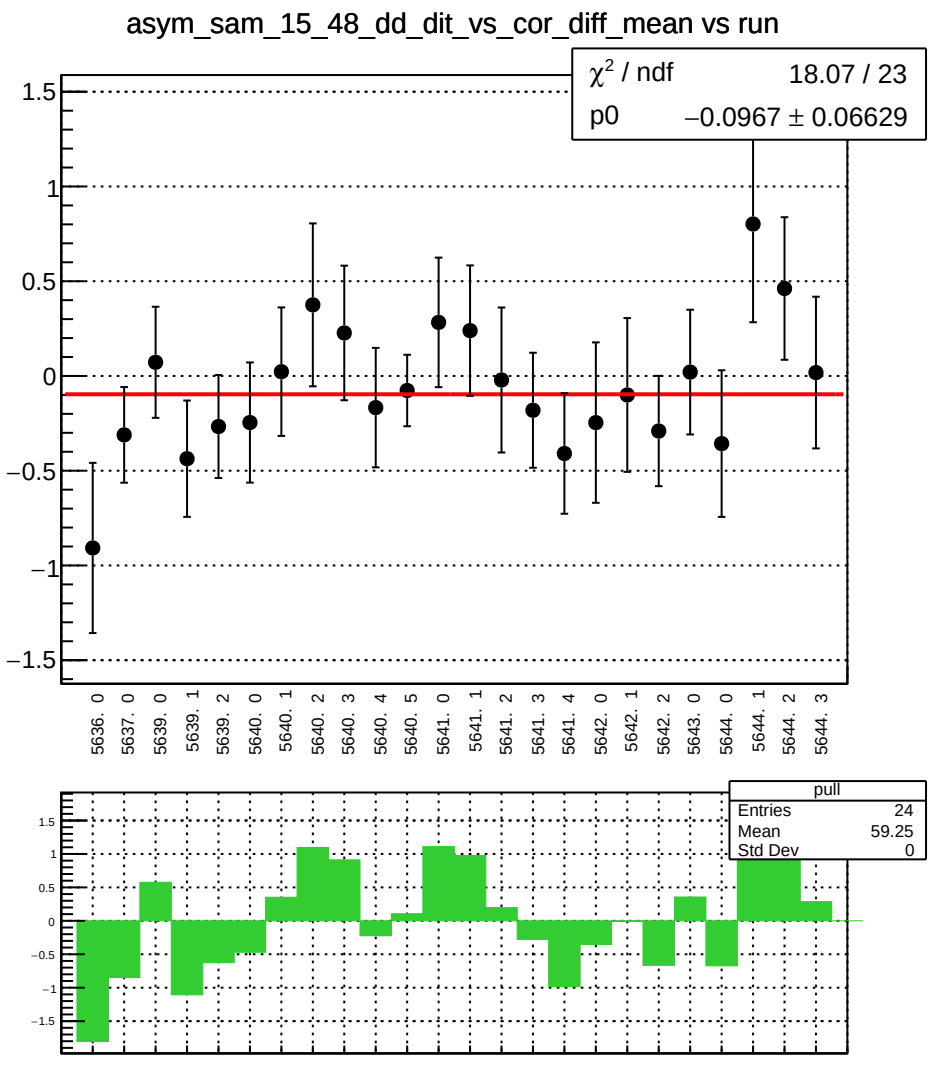
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

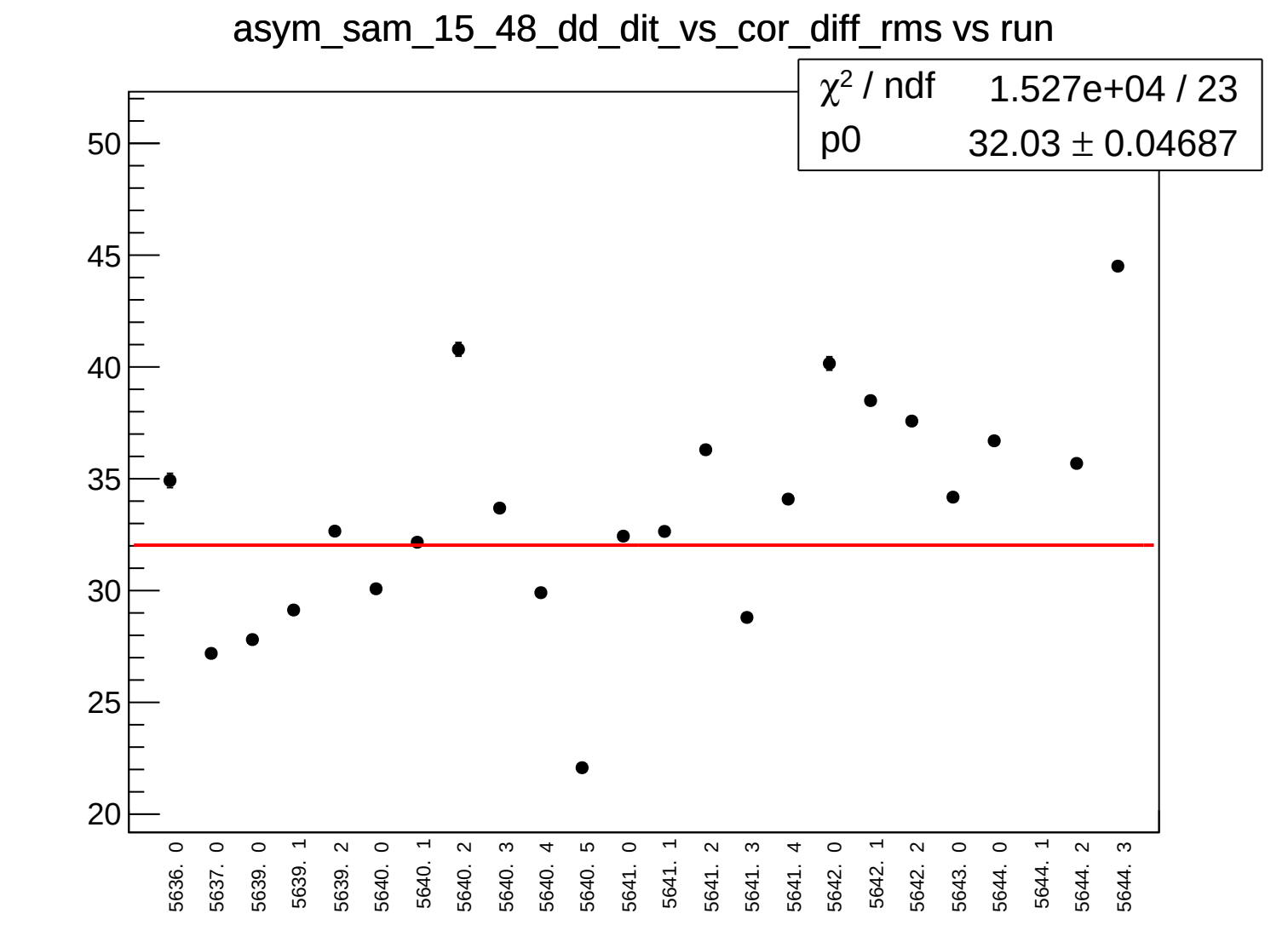

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 23.11 / 23
p0 9.15e−14 ± 8.042e−14
0.4
0.2
0
−0.2
−0.4
−0.6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

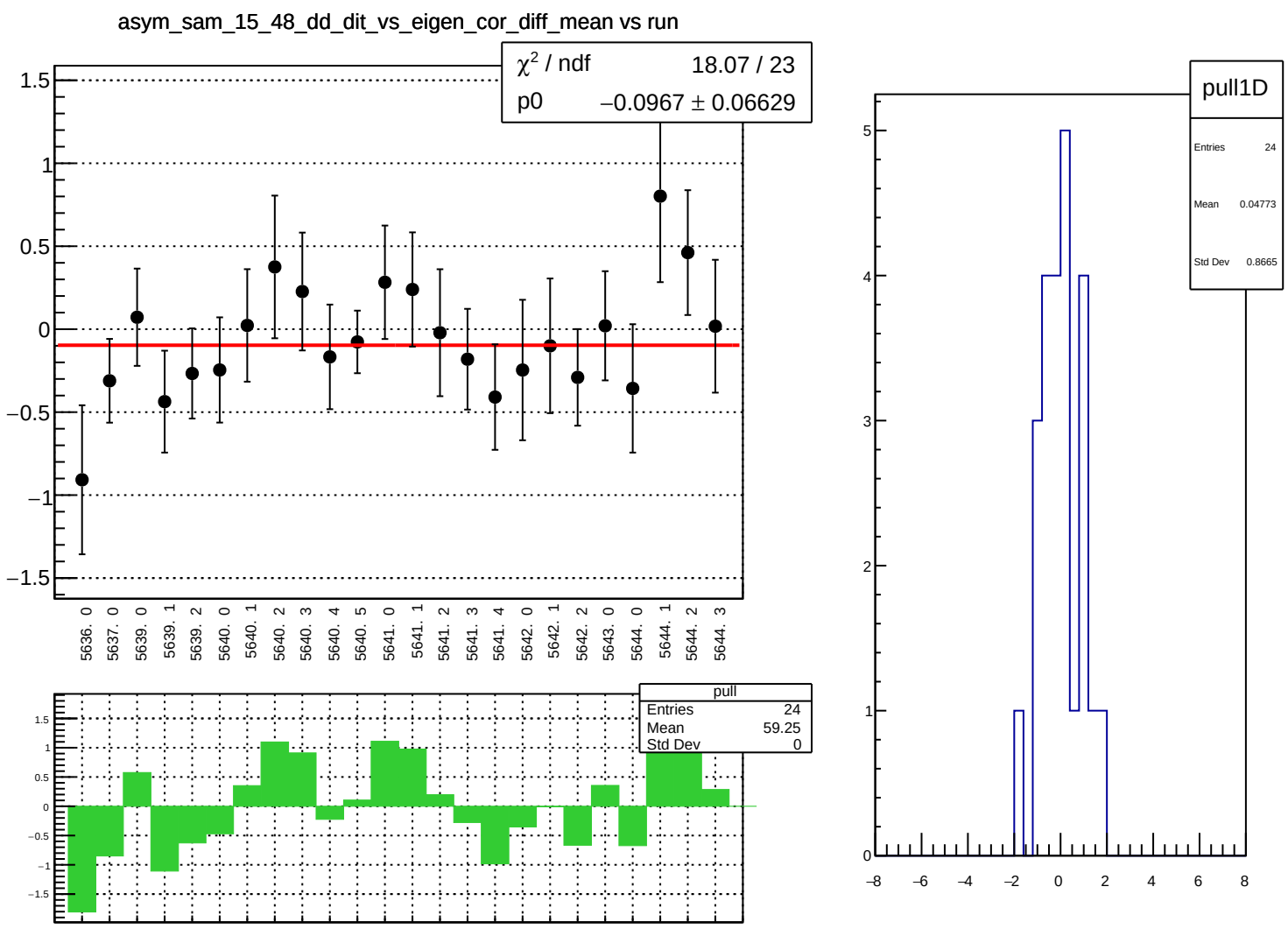

pull
Entries 24
Mean 51.97
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

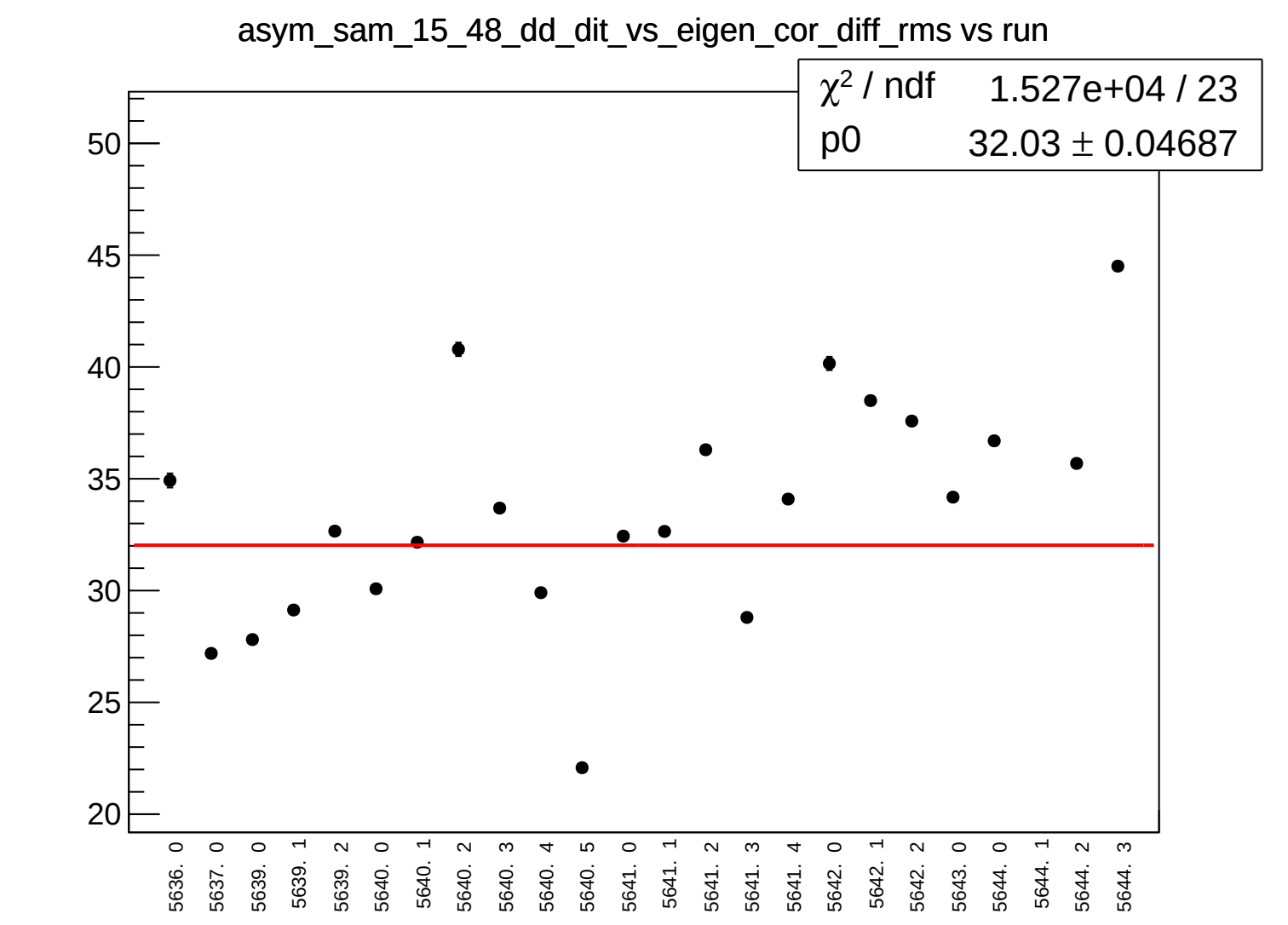

pull1D
Entries 24
Mean 0.03156
Std Dev 0.9807
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

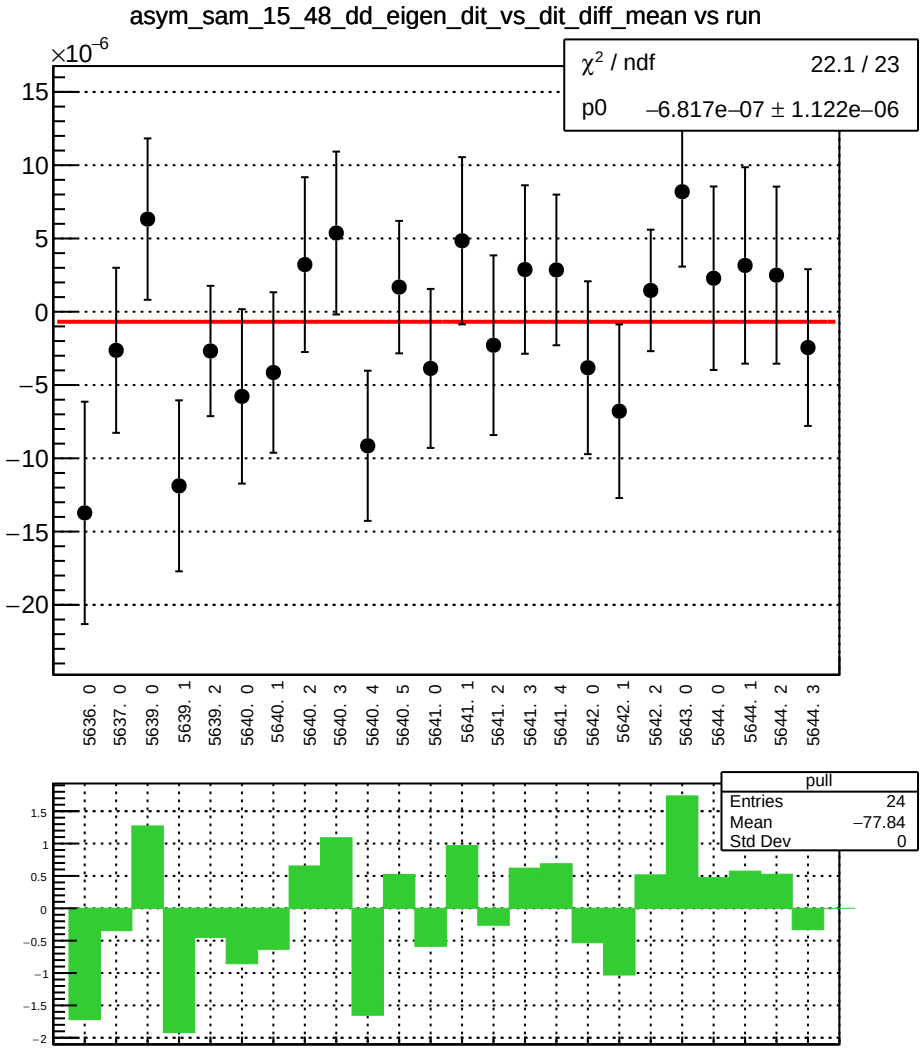

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.705e+05 / 23
p0 2.617e−11 ± 5.686e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

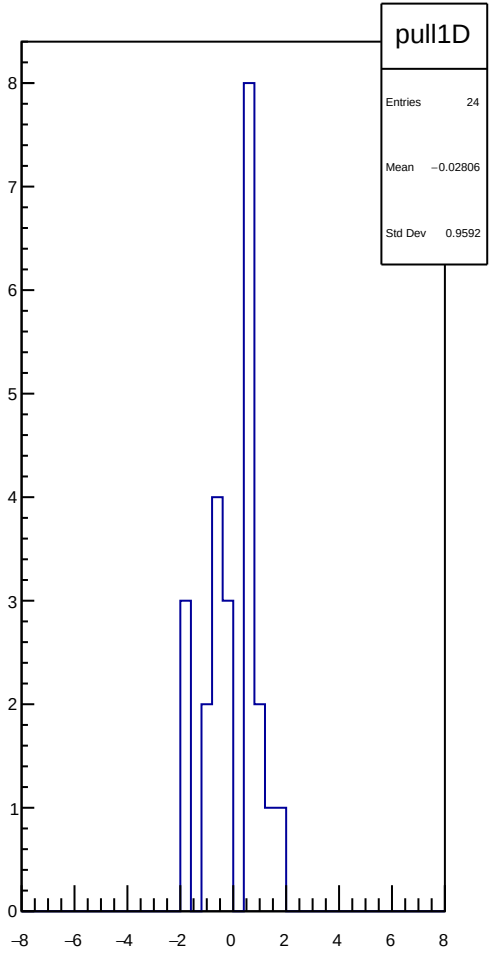

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 18.07 / 23
p0 −0.0967 ± 0.06629
1.5
1
0.5
0
−0.5
−1
−1.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 59.25
Std Dev 0
pull1D
Entries 24
Mean 0.04773
Std Dev 0.8665
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

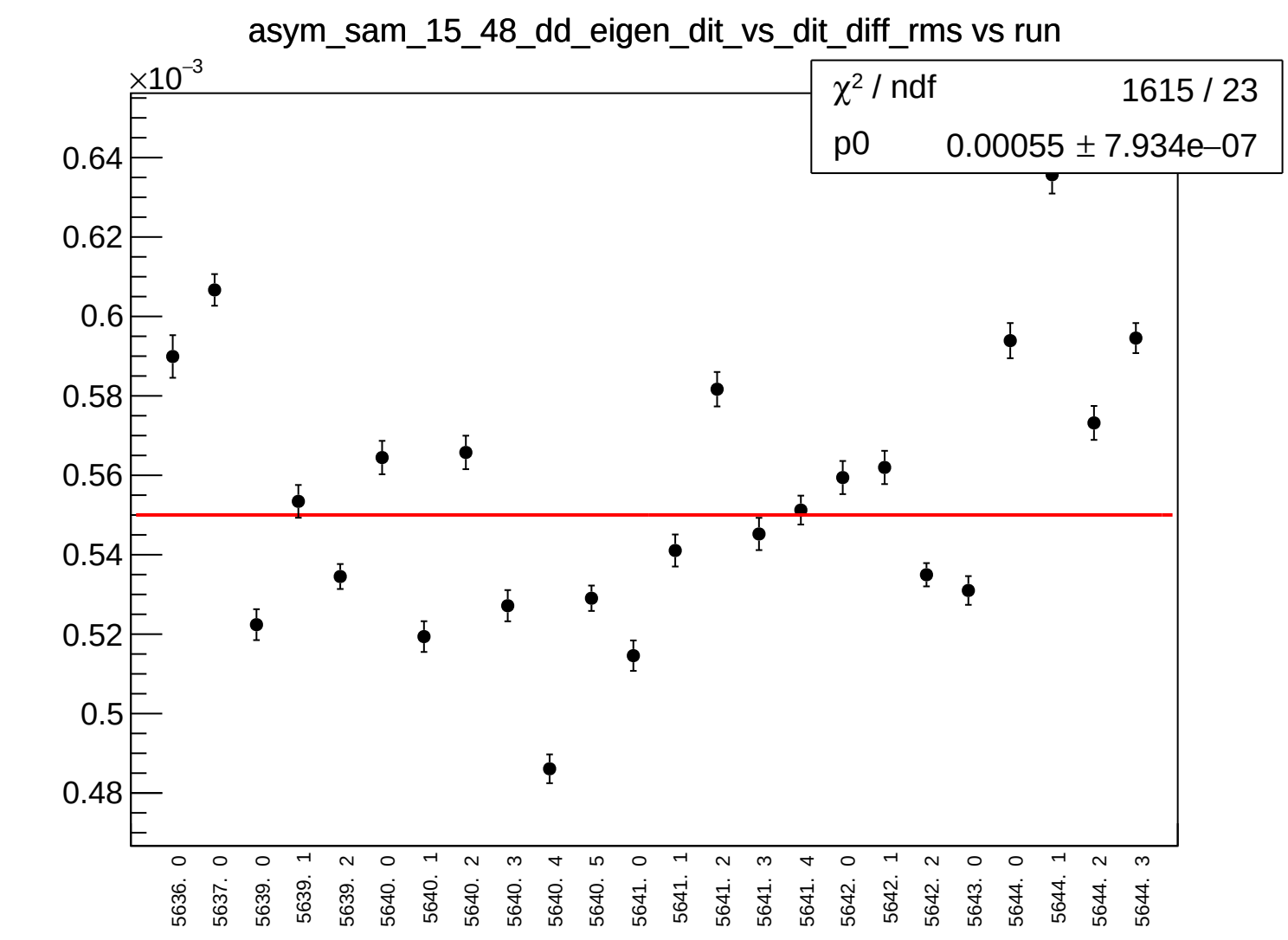

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.527e+04 / 23
p0 32.03 ± 0.04687
50
45
40
35
30
25
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

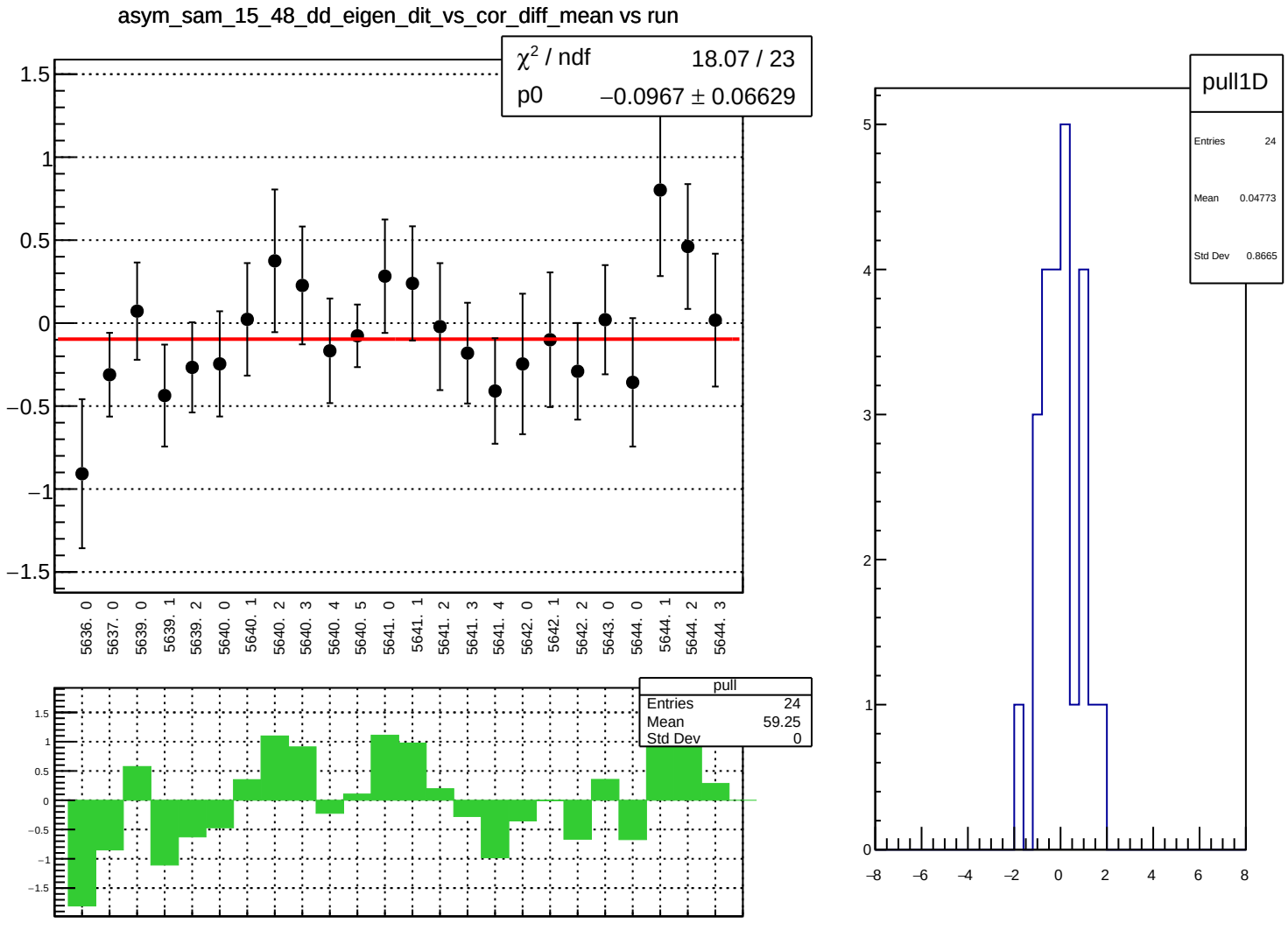

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 18.07 / 23
p0 −0.0967 ± 0.06629
1.5
1
0.5
0
−0.5
−1
−1.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 59.25
Std Dev 0
pull1D
Entries 24
Mean 0.04773
Std Dev 0.8665
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

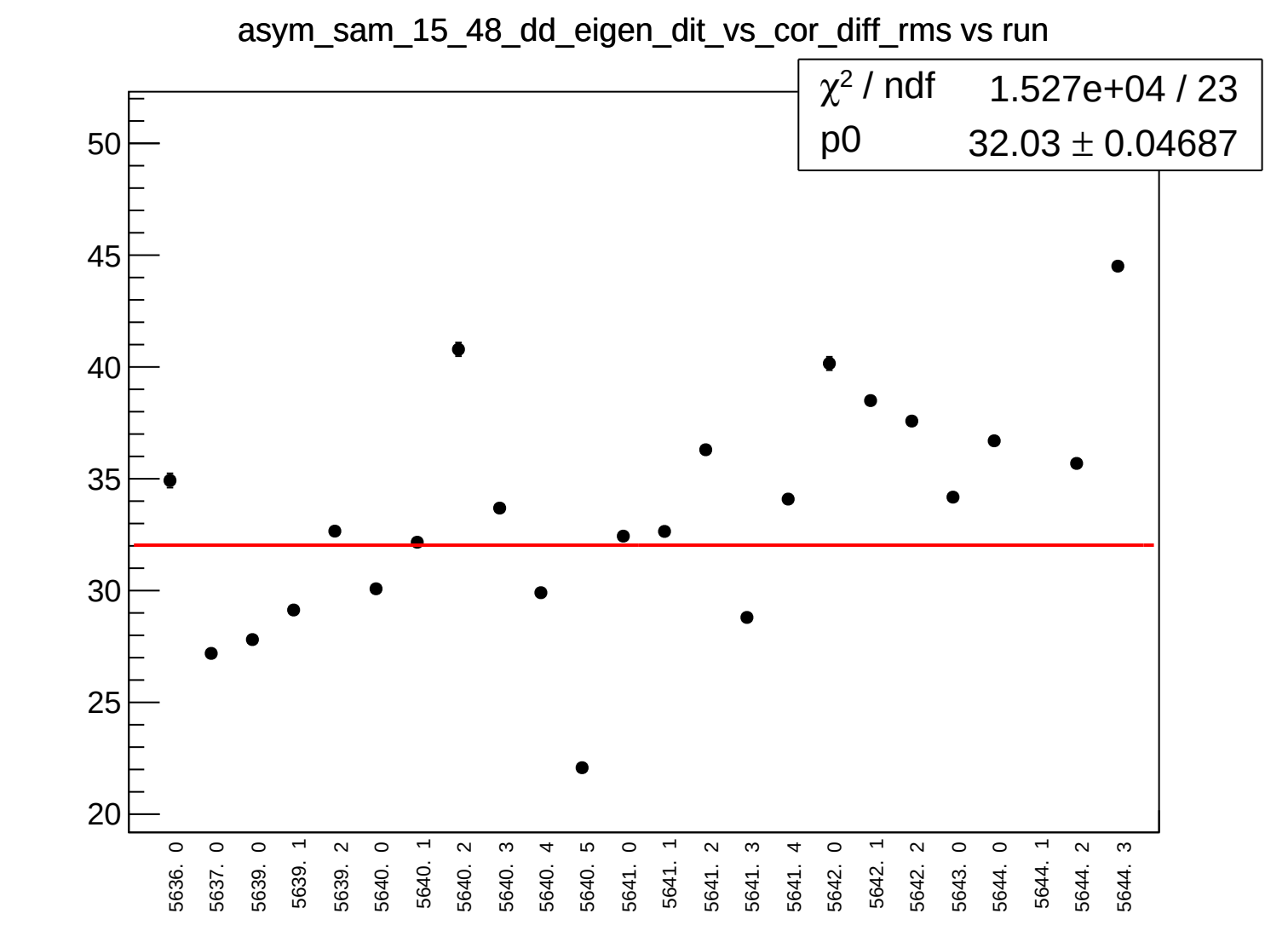

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.527e+04 / 23
p0 32.03 ± 0.04687
50
45
40
35
30
25
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

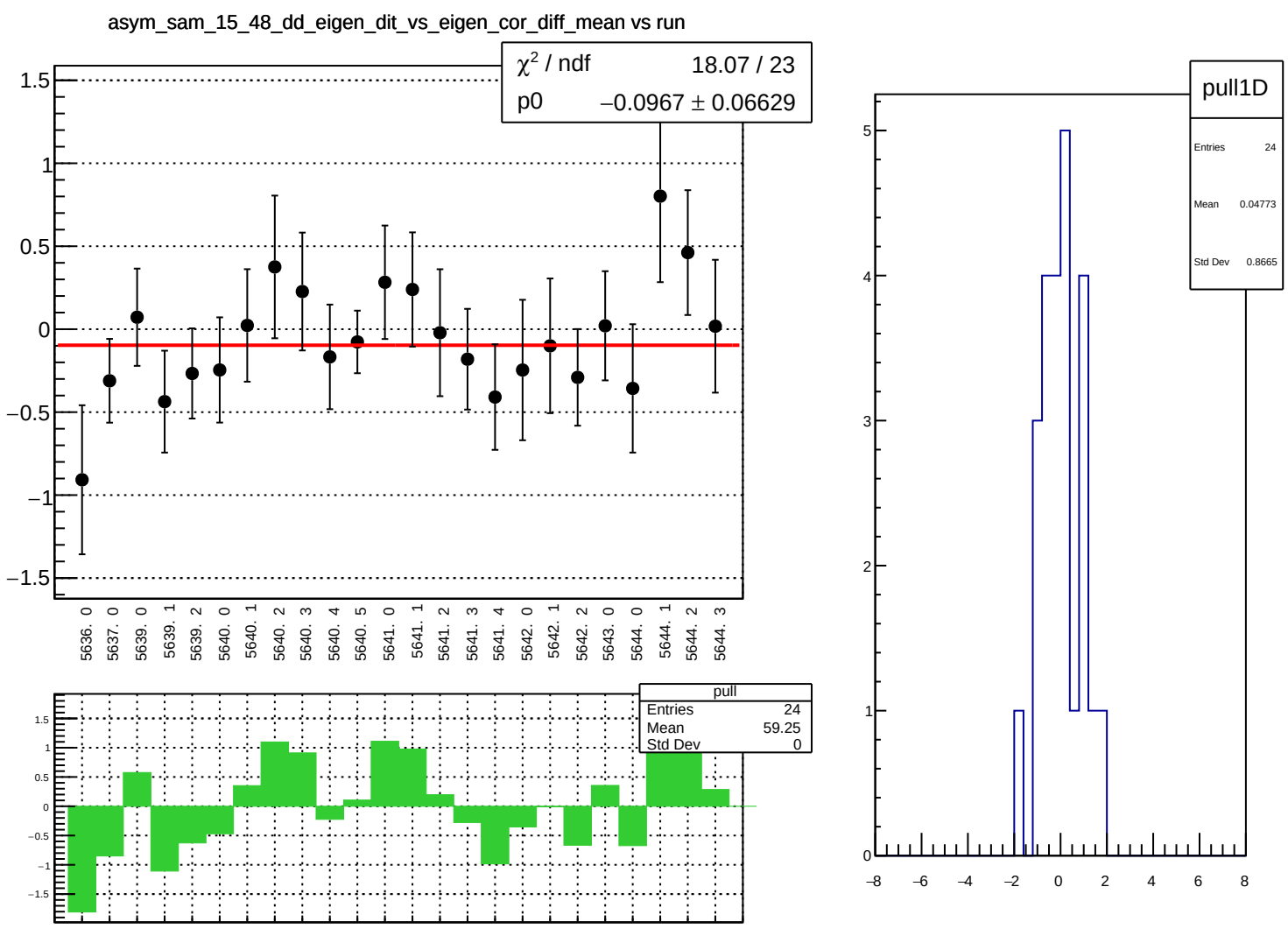

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 22.1 / 23
p0 −6.817e−07 ± 1.122e−06
15
10
5
0
−5
−10
−15
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −77.84
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

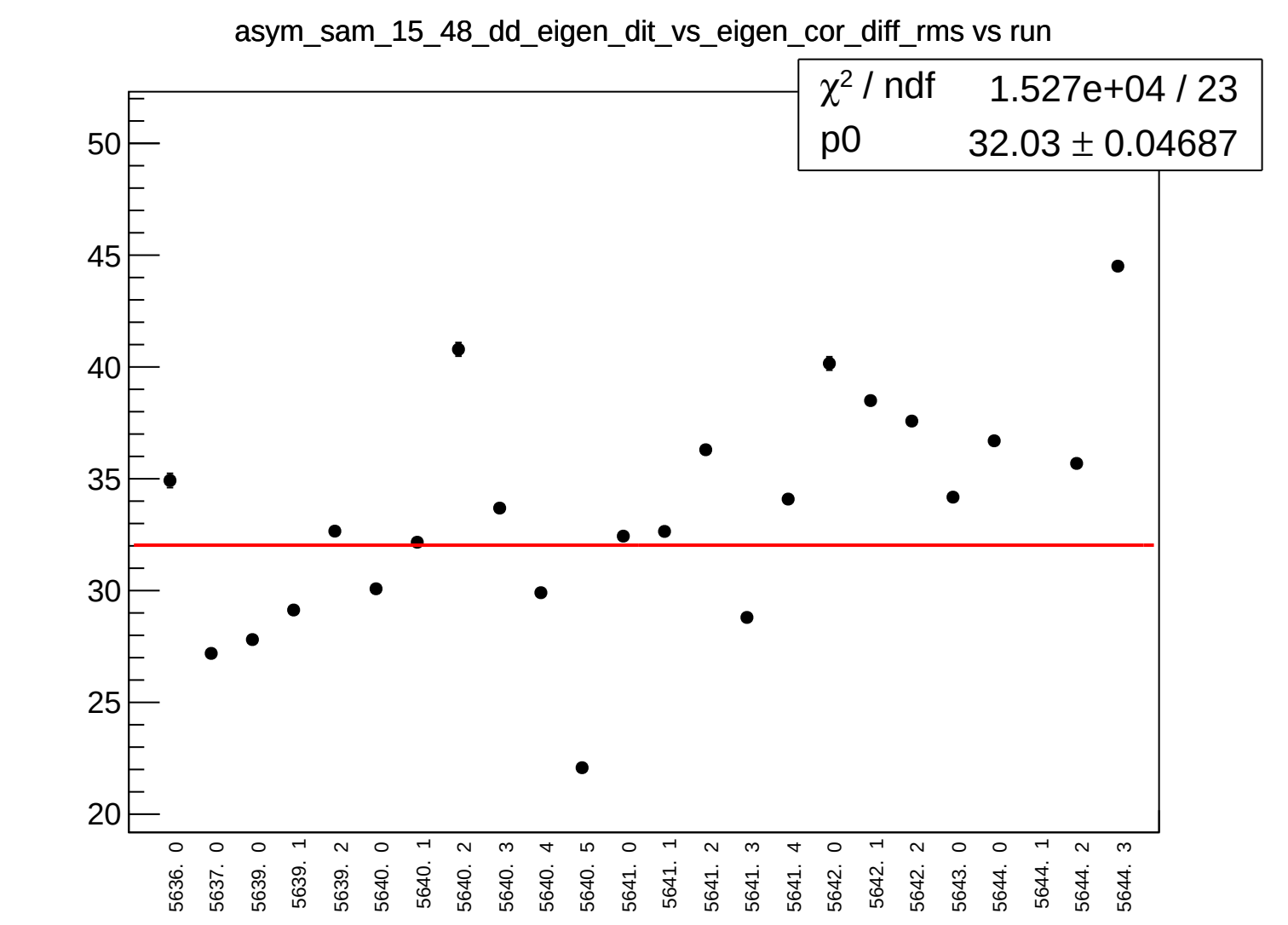

pull1D
Entries 24
Mean −0.02806
Std Dev 0.9592
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

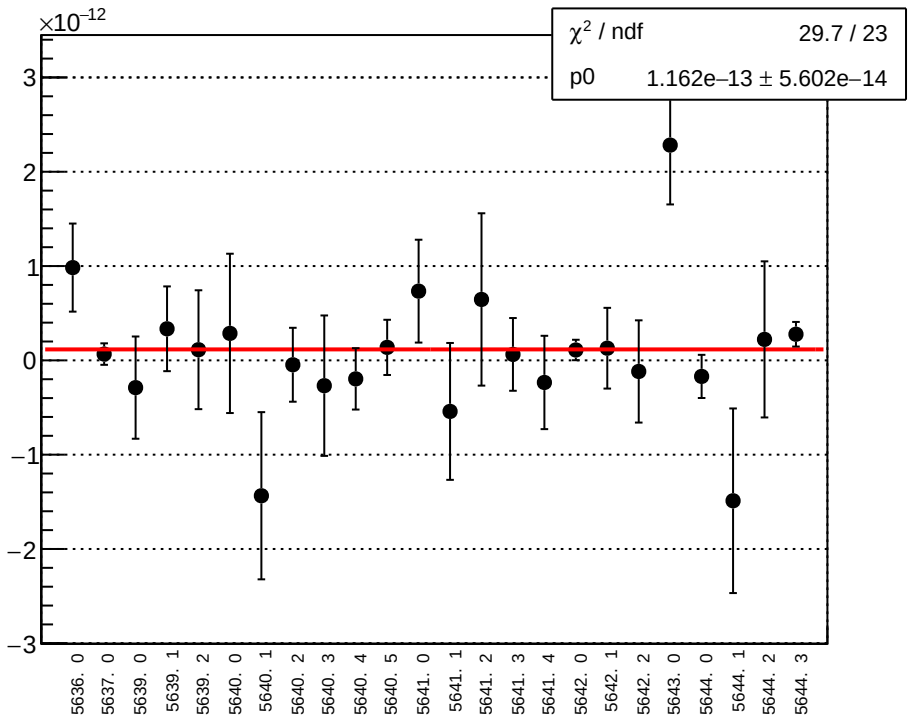

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1615 / 23
p0 0.00055 ± 7.934e–07
0.64
0.62
0.6
0.58
0.56
0.54
0.52
0.5
0.48
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

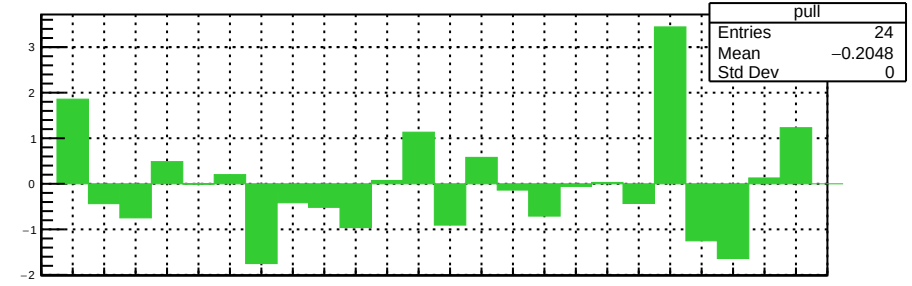

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 18.07 / 23
p0 −0.0967 ± 0.06629
1.5
1
0.5
0
−0.5
−1
−1.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 59.25
Std Dev 0
pull1D
Entries 24
Mean 0.04773
Std Dev 0.8665
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

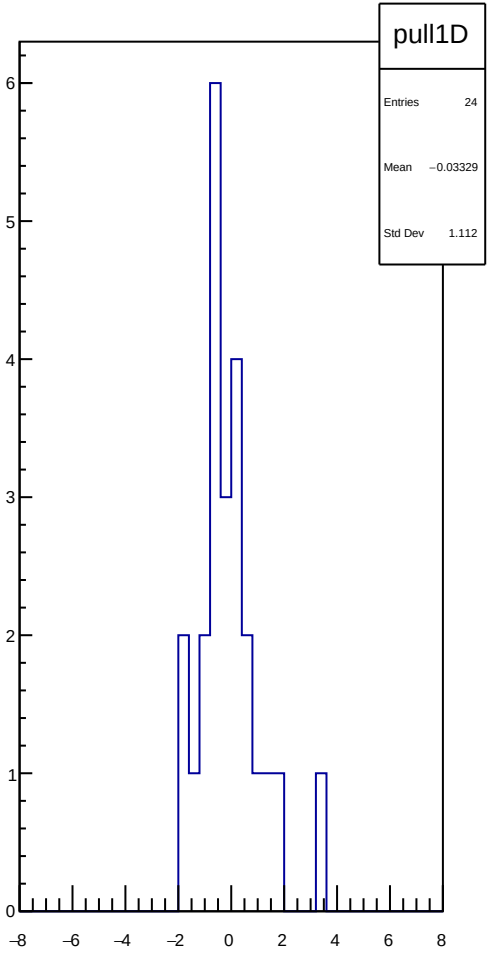

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.527e+04 / 23
p0 32.03 ± 0.04687
50
45
40
35
30
25
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

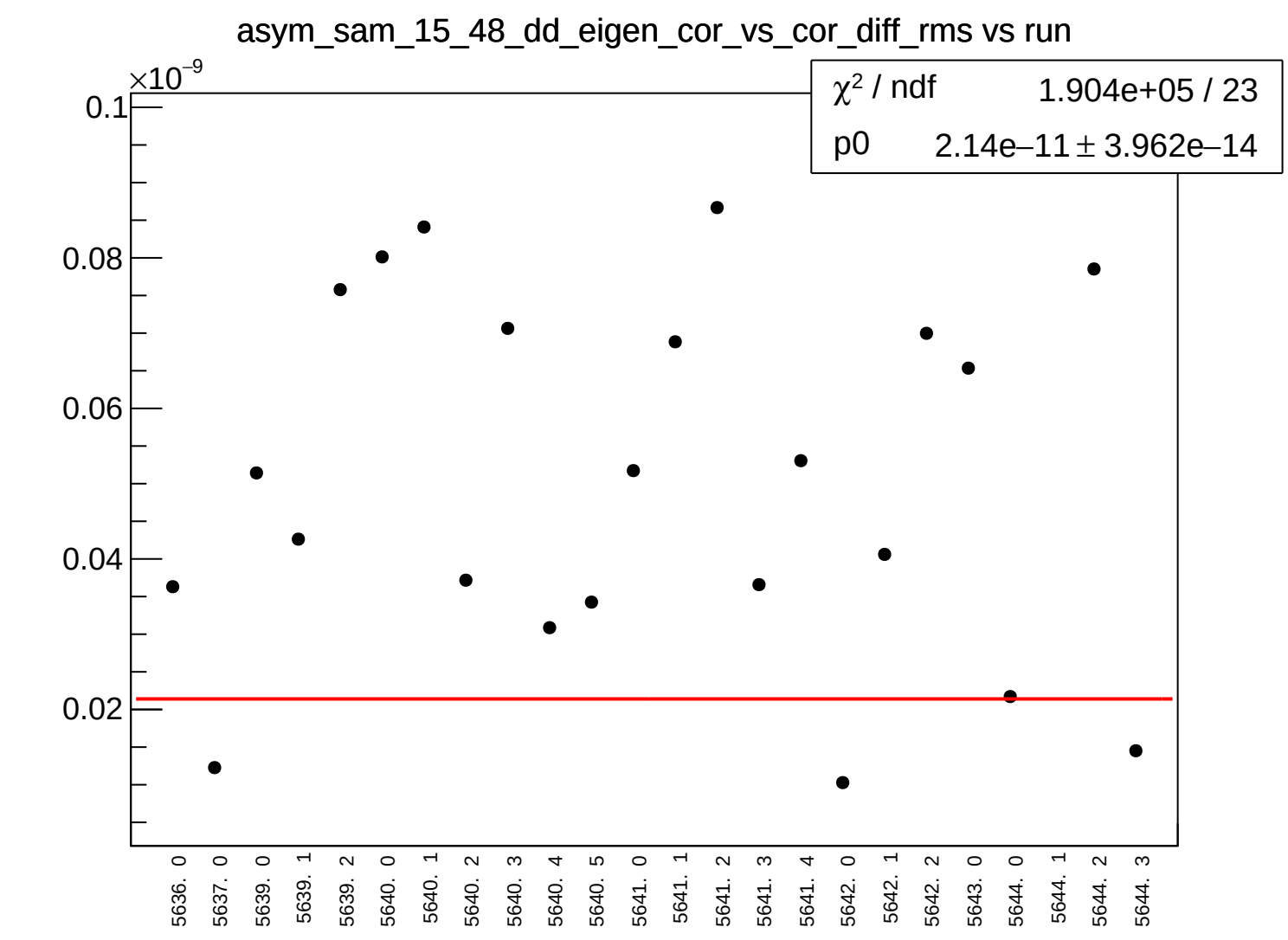

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 18.07 / 23
p0 −0.0967 ± 0.06629
1.5
1
0.5
0
−0.5
−1
−1.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 59.25
Std Dev 0
pull1D
Entries 24
Mean 0.04773
Std Dev 0.8665
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

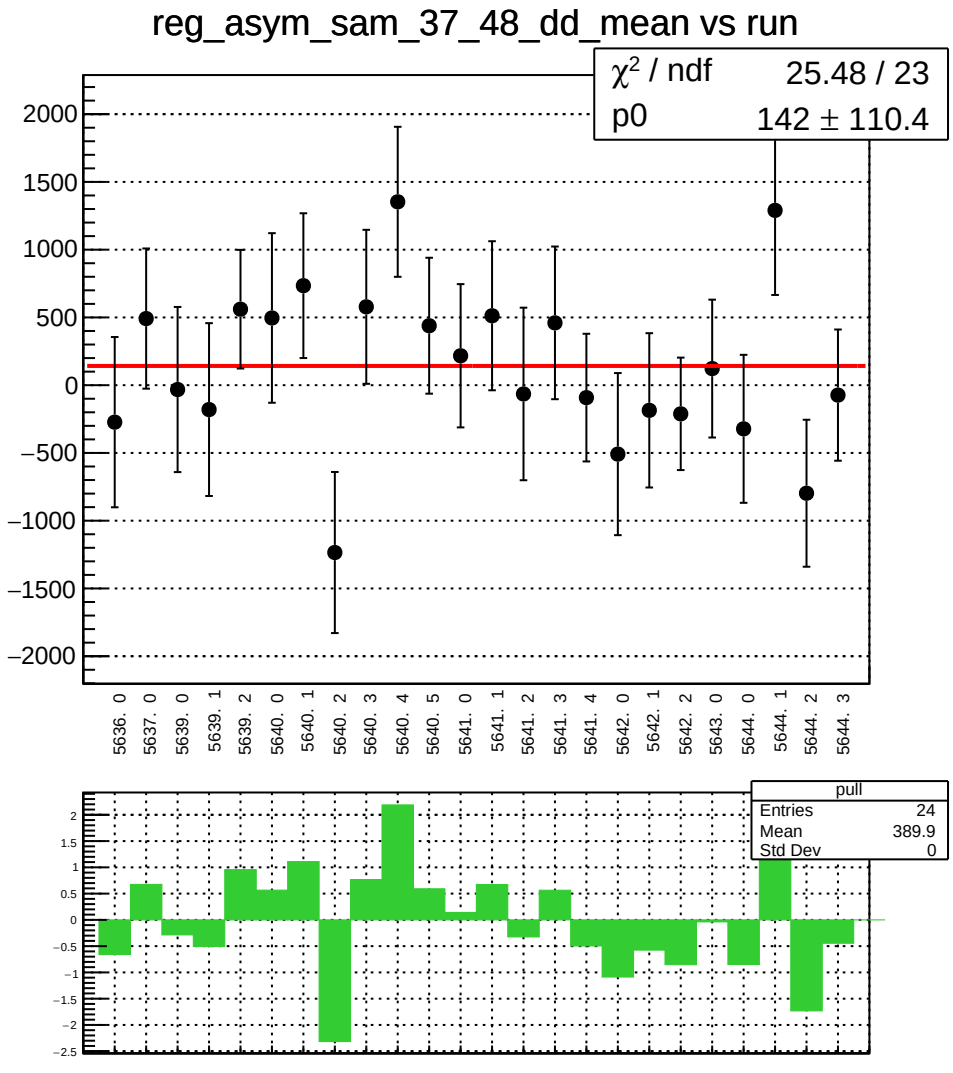

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.527e+04 / 23
p0 32.03 ± 0.04687
50
45
40
35
30
25
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

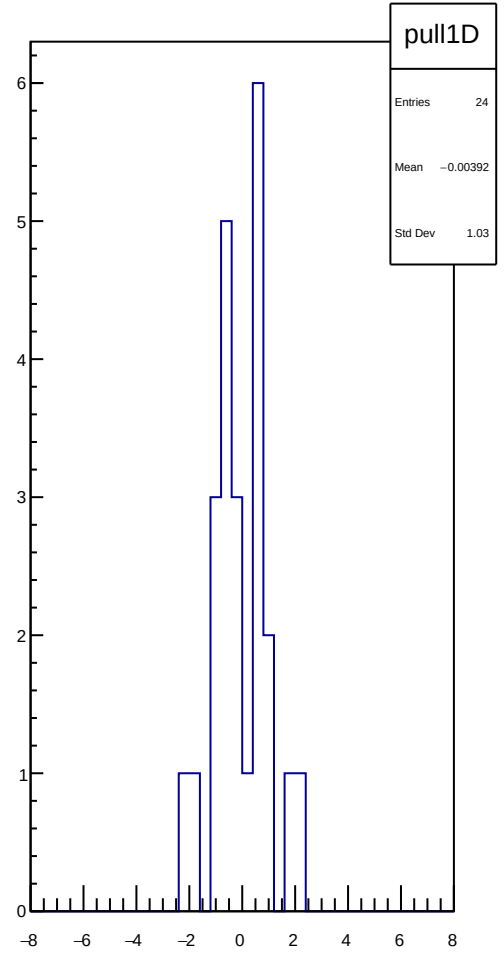

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 29.7 / 23
p0 1.162e−13 ± 5.602e−14
3
2
1
0
−1
−2
−3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

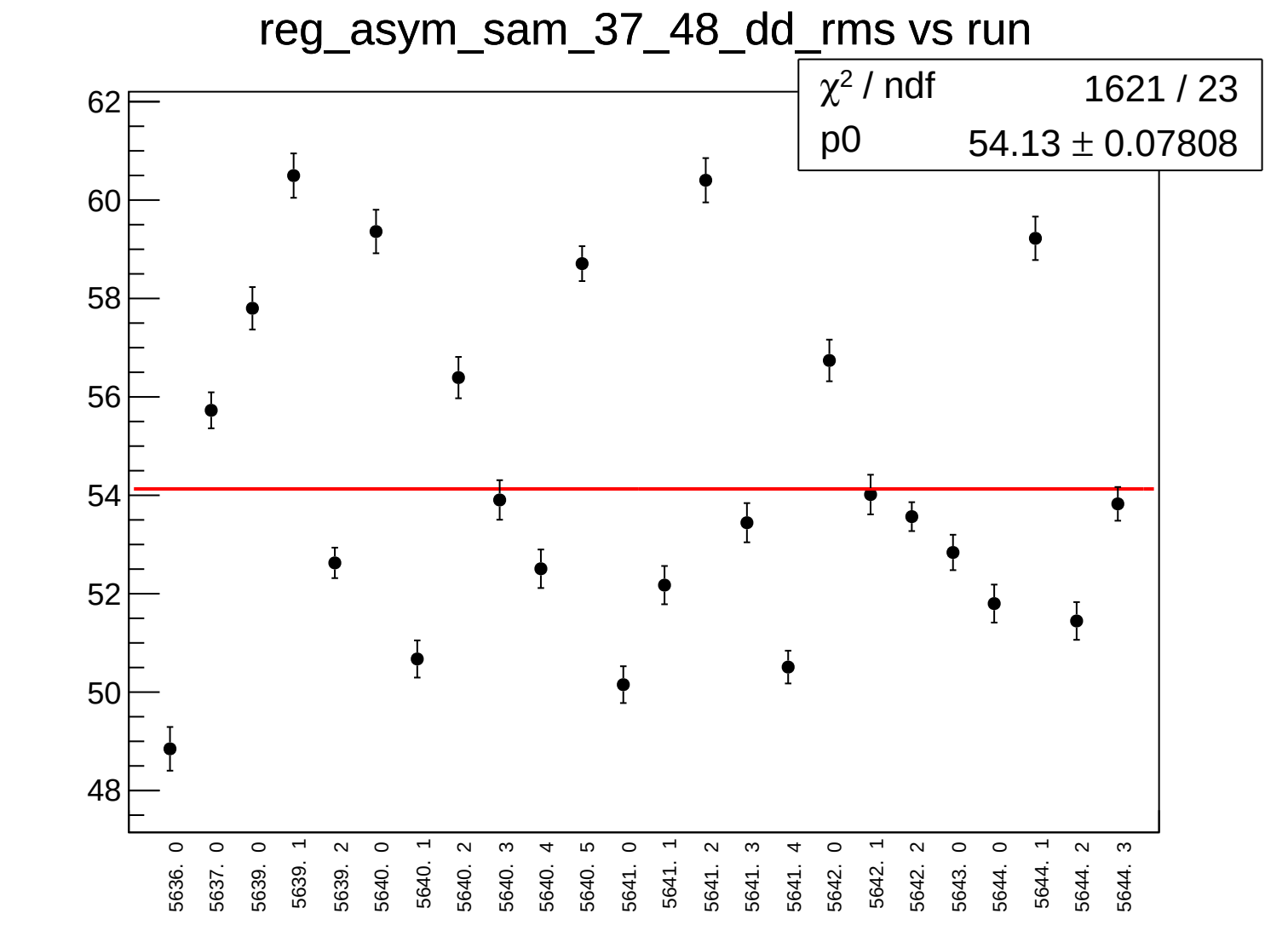

pull
Entries 24
Mean −0.2048
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 24
Mean −0.03329
Std Dev 1.112
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.904e+05 / 23
p0 2.14e−11 ± 3.962e−14
0.1
0.08
0.06
0.04
0.02
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 25.48 / 23
p0 142 ± 110.4
2000
1500
1000
500
0
−500
−1000
−1500
−2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 389.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 24
Mean −0.00392
Std Dev 1.03
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 1621 / 23
p0 54.13 ± 0.07808
62
60
58
56
54
52
50
48
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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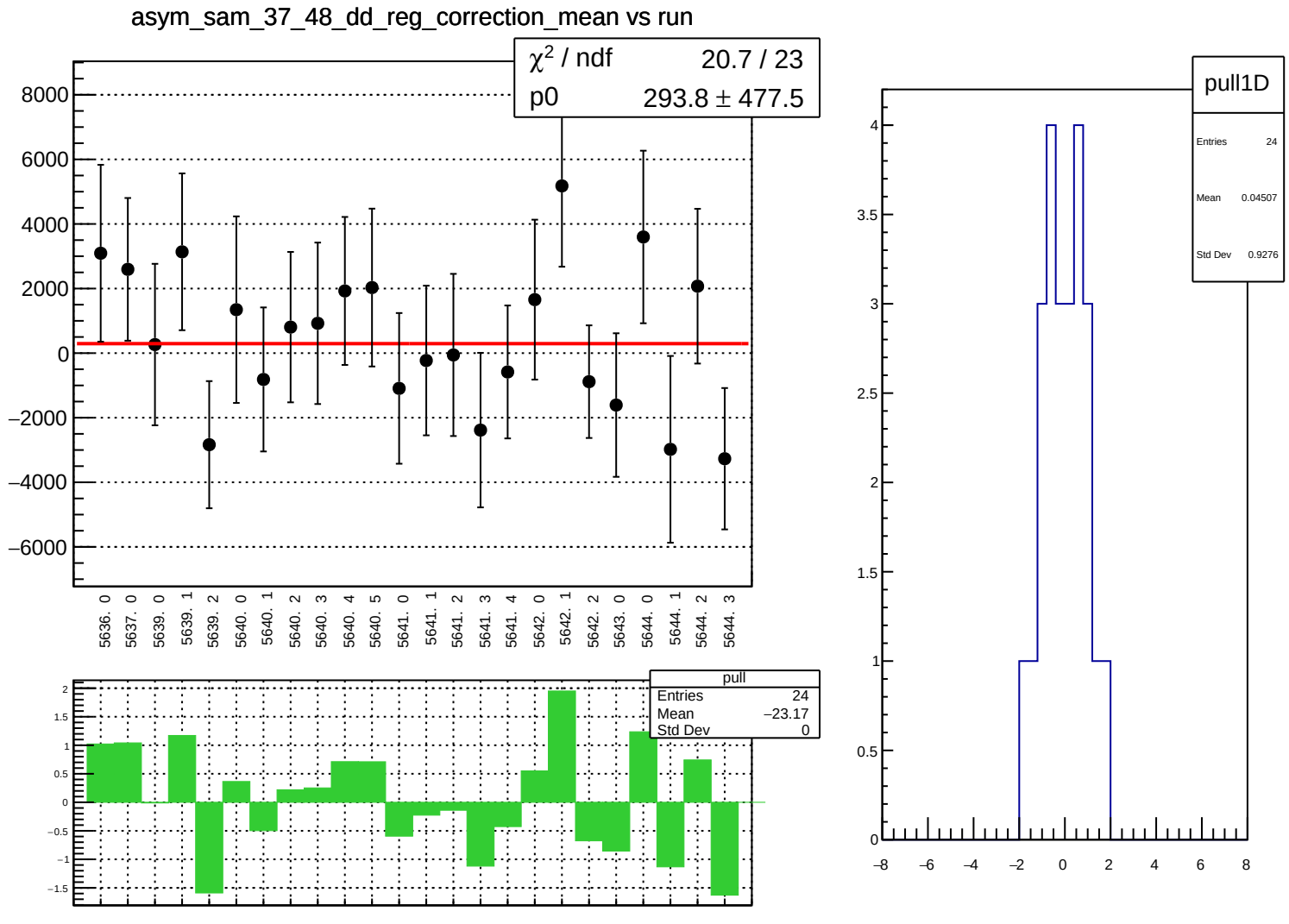
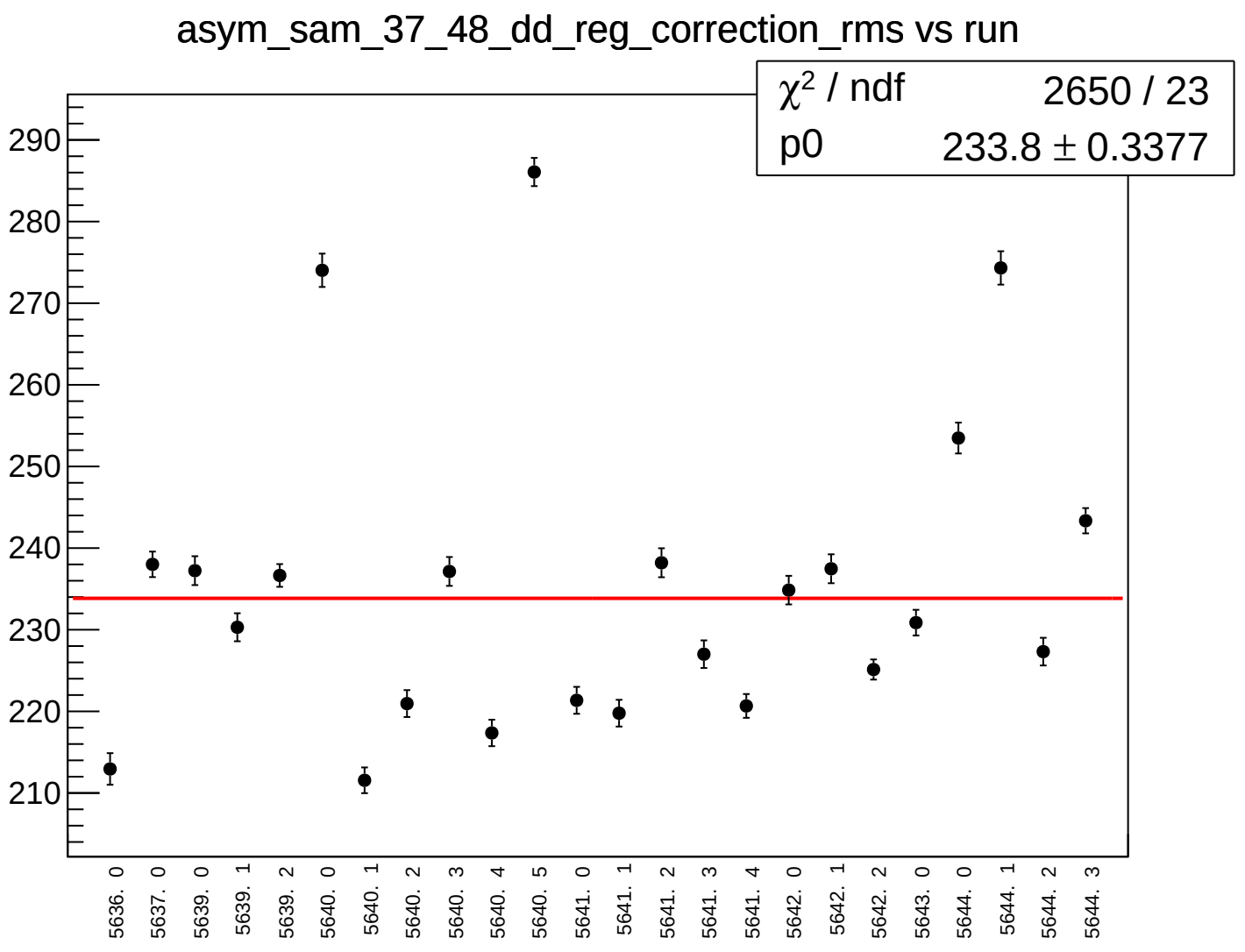
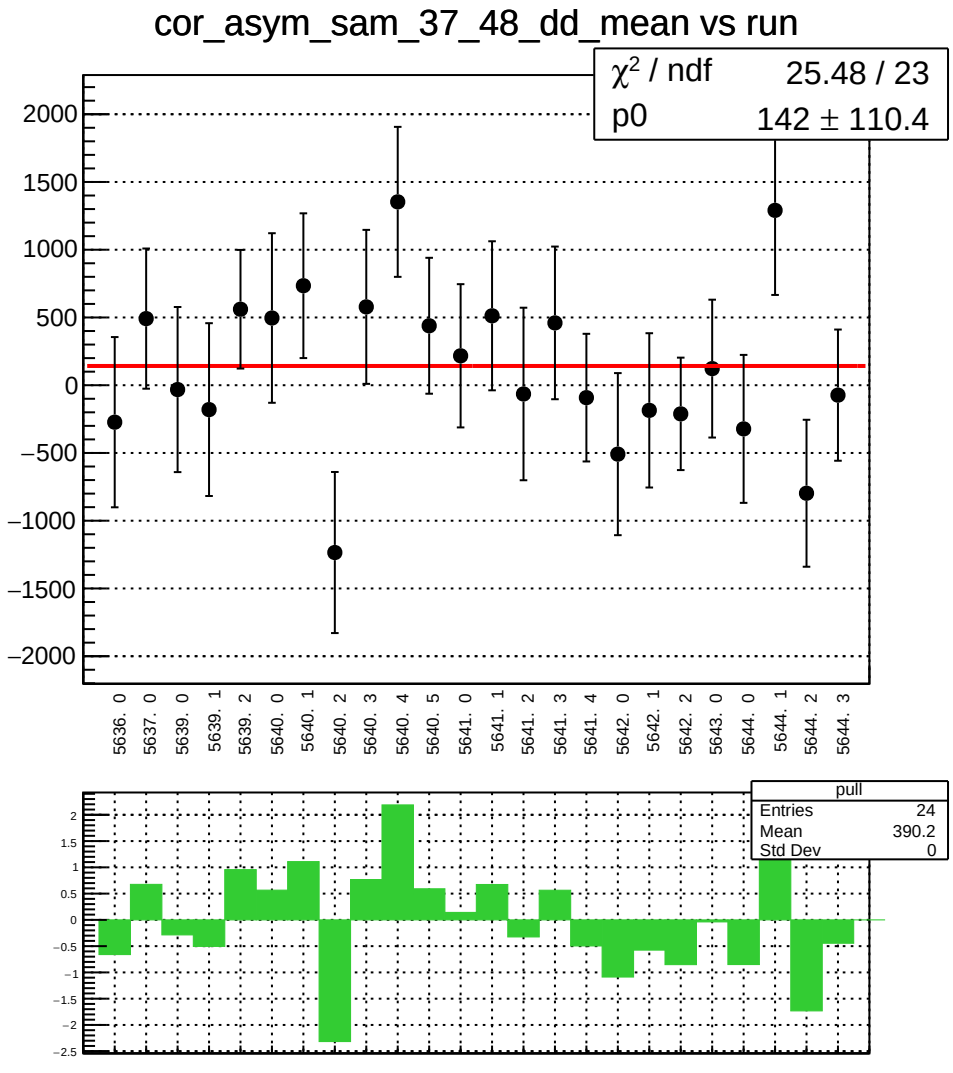
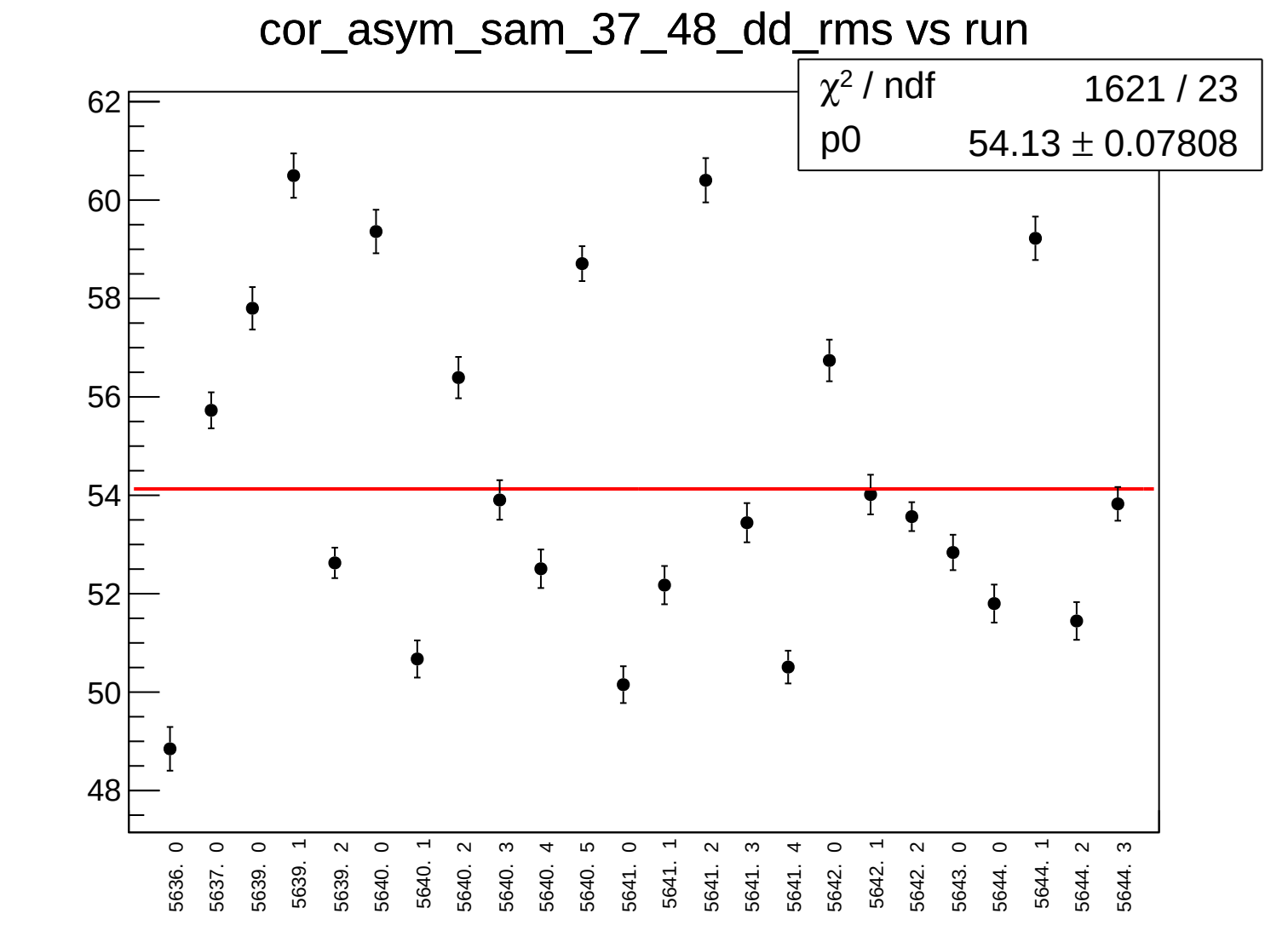
5644. 2
5644. 3


asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 20.7 / 23
p0 293.8 ± 477.5
8000
6000
4000
2000
0
−2000
−4000
−6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −23.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.04507
Std Dev 0.9276
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_48_dd_reg_correction_rms vs run
χ² / ndf 2650 / 23
p0 233.8 ± 0.3377
290
280
270
260
250
240
230
220
210
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 25.48 / 23
p0 142 ± 110.4
2000
1500
1000
500
0
−500
−1000
−1500
−2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 390.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean −0.003917
Std Dev 1.03
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 1621 / 23
p0 54.13 ± 0.07808
62
60
58
56
54
52
50
48
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5642. 0
5642. 1
5642. 2
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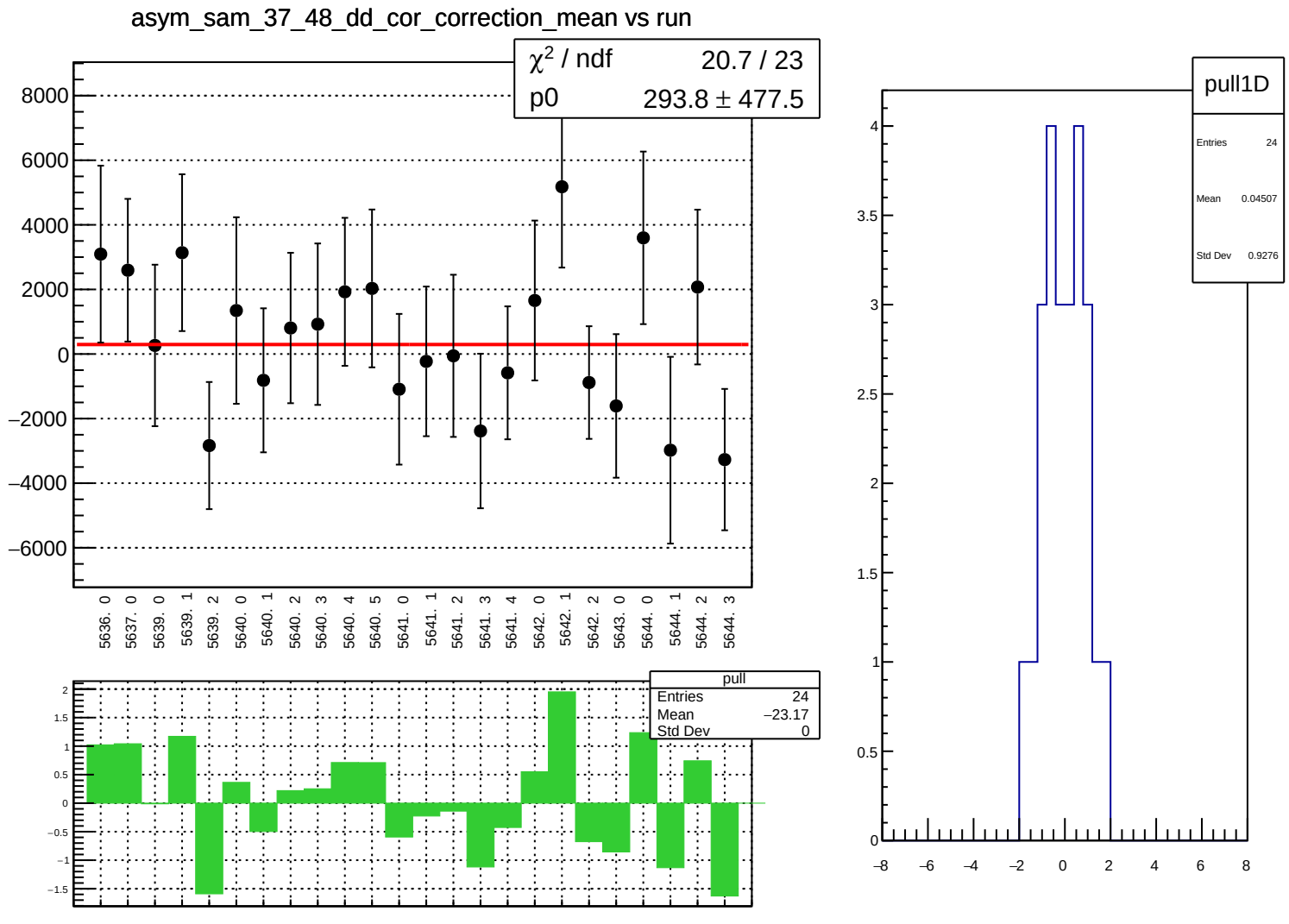
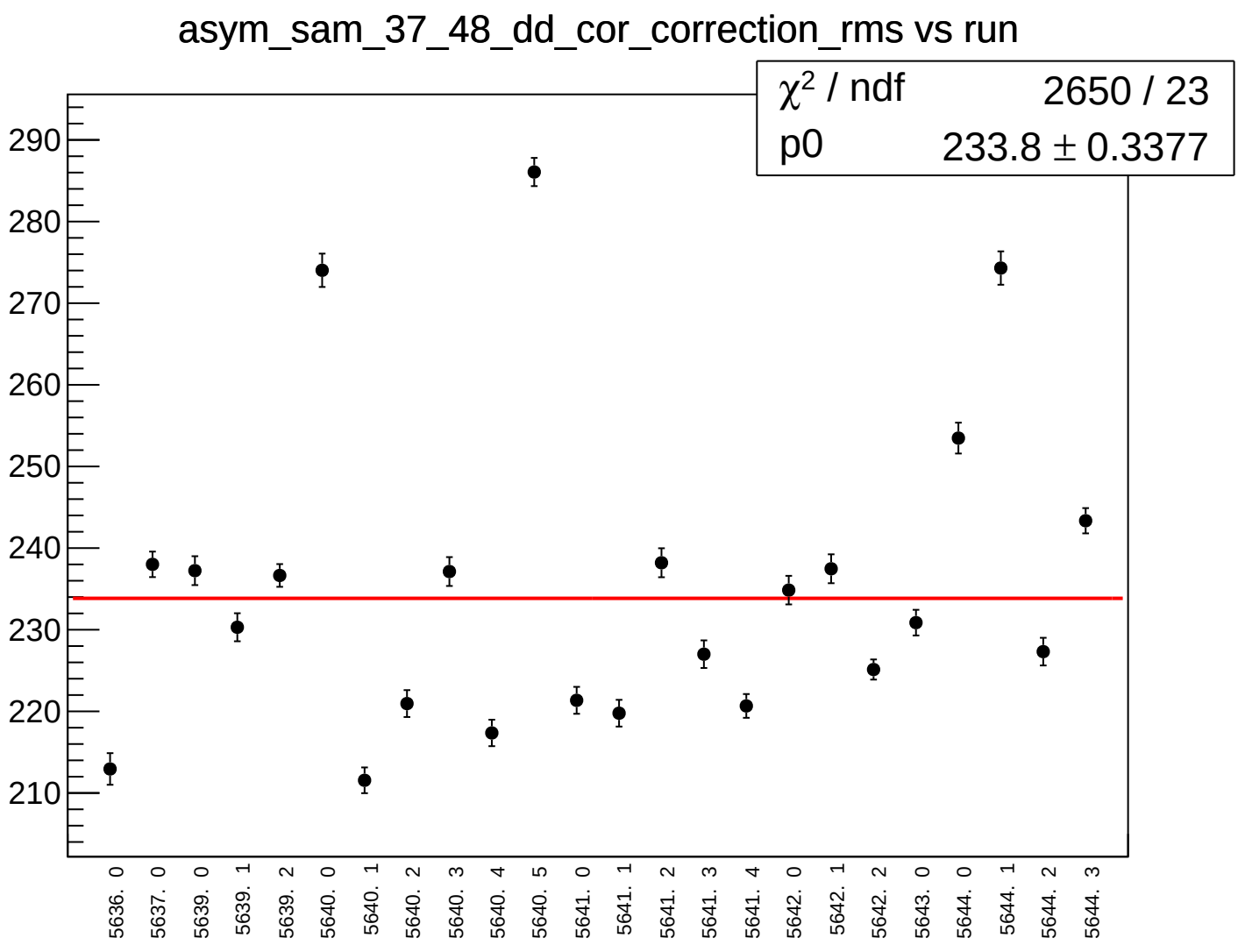
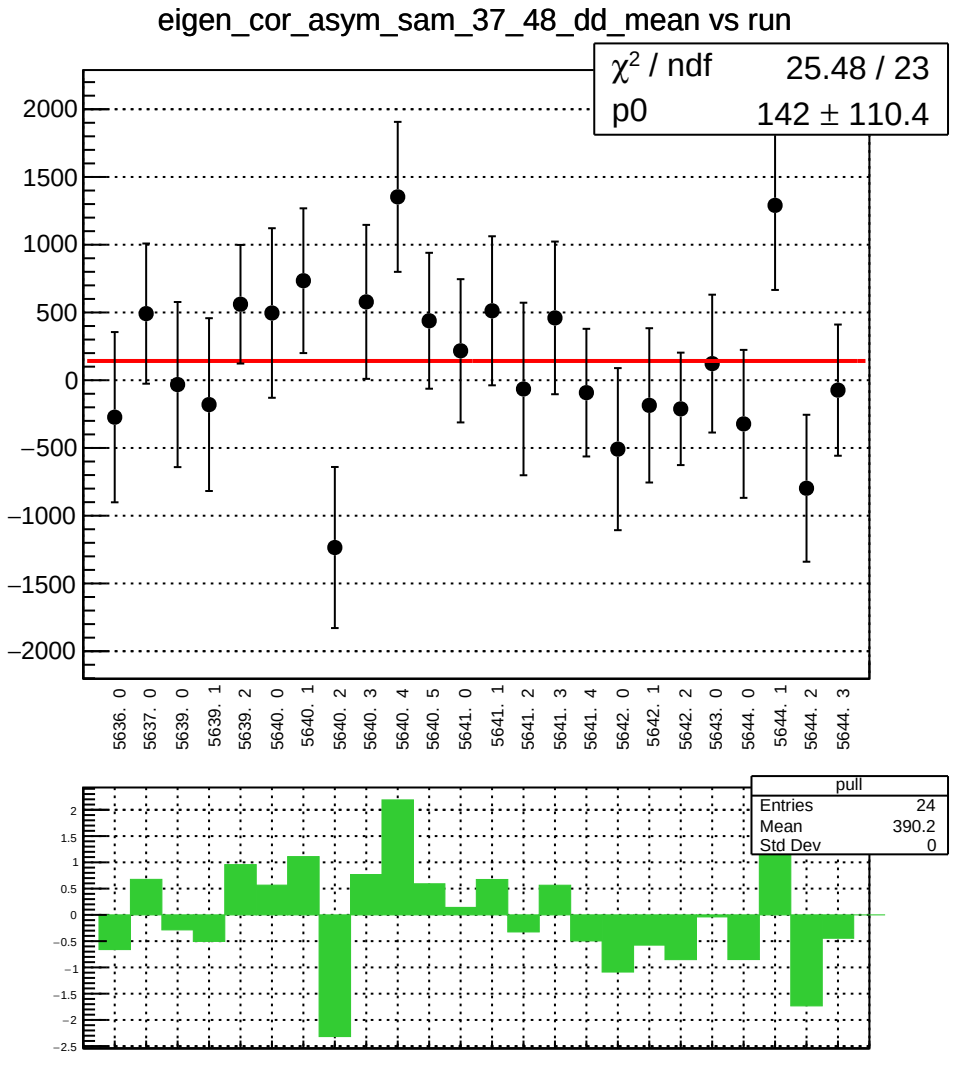
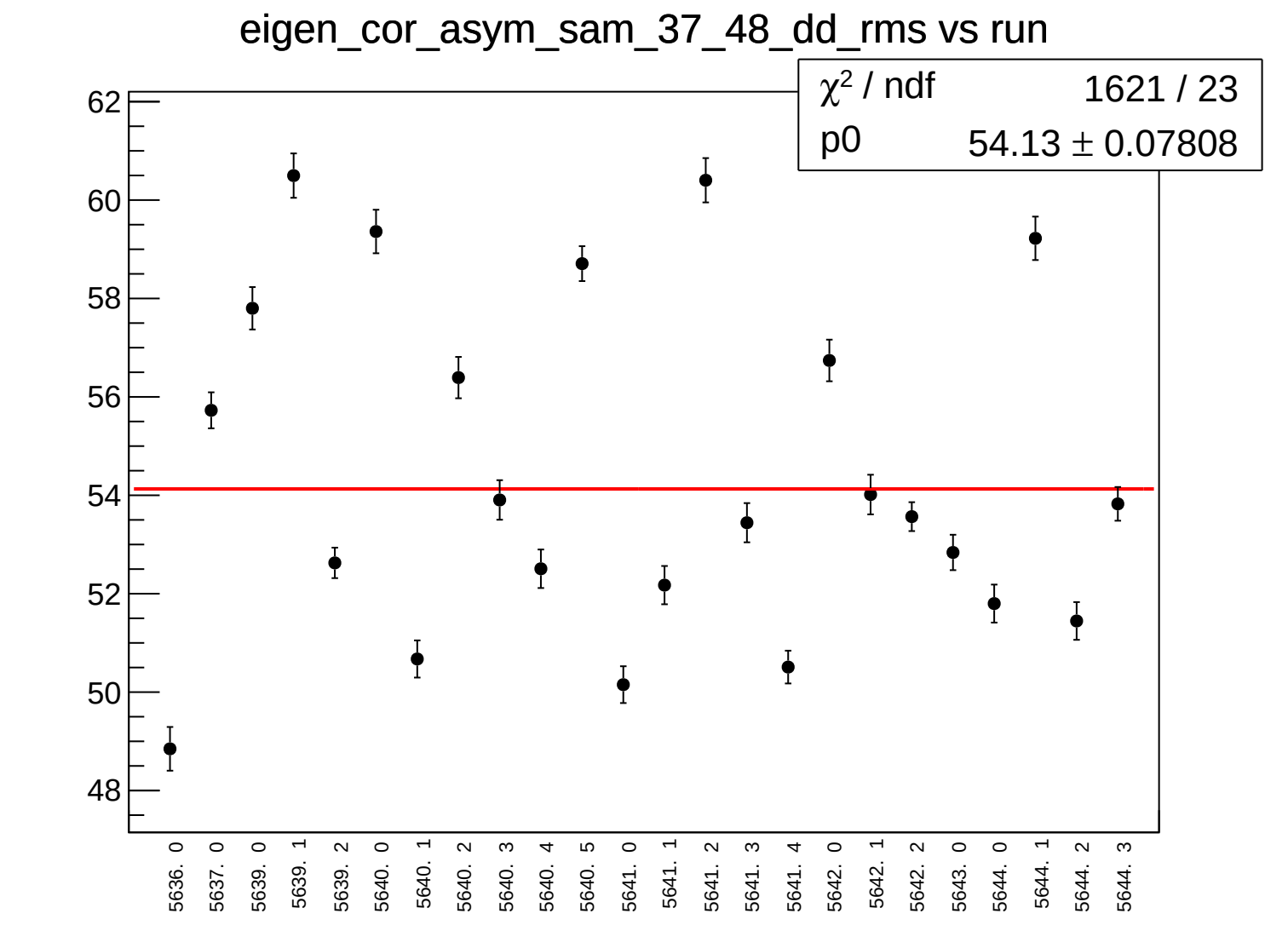
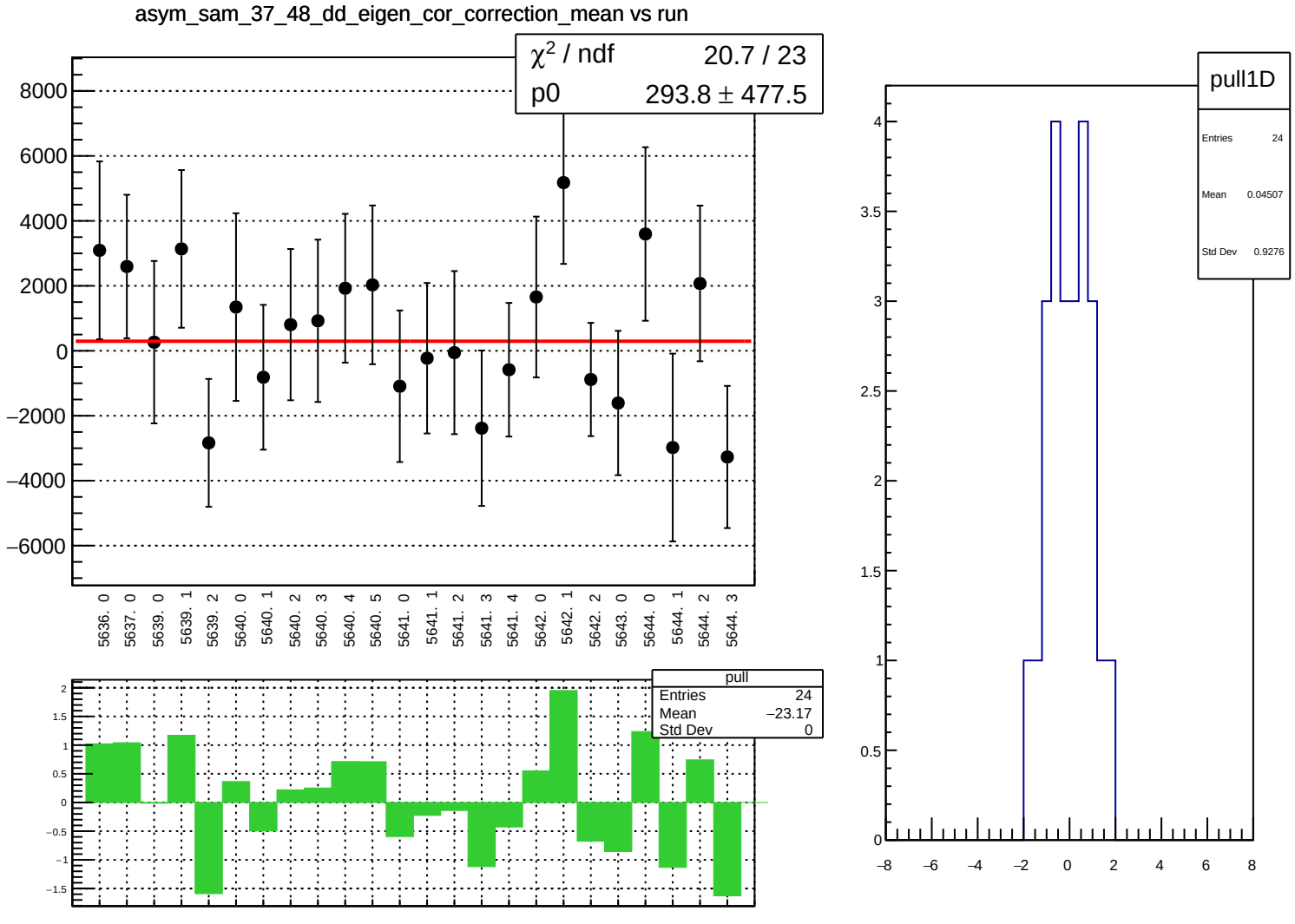
5644. 0
5644. 1
5644. 2
5644. 3

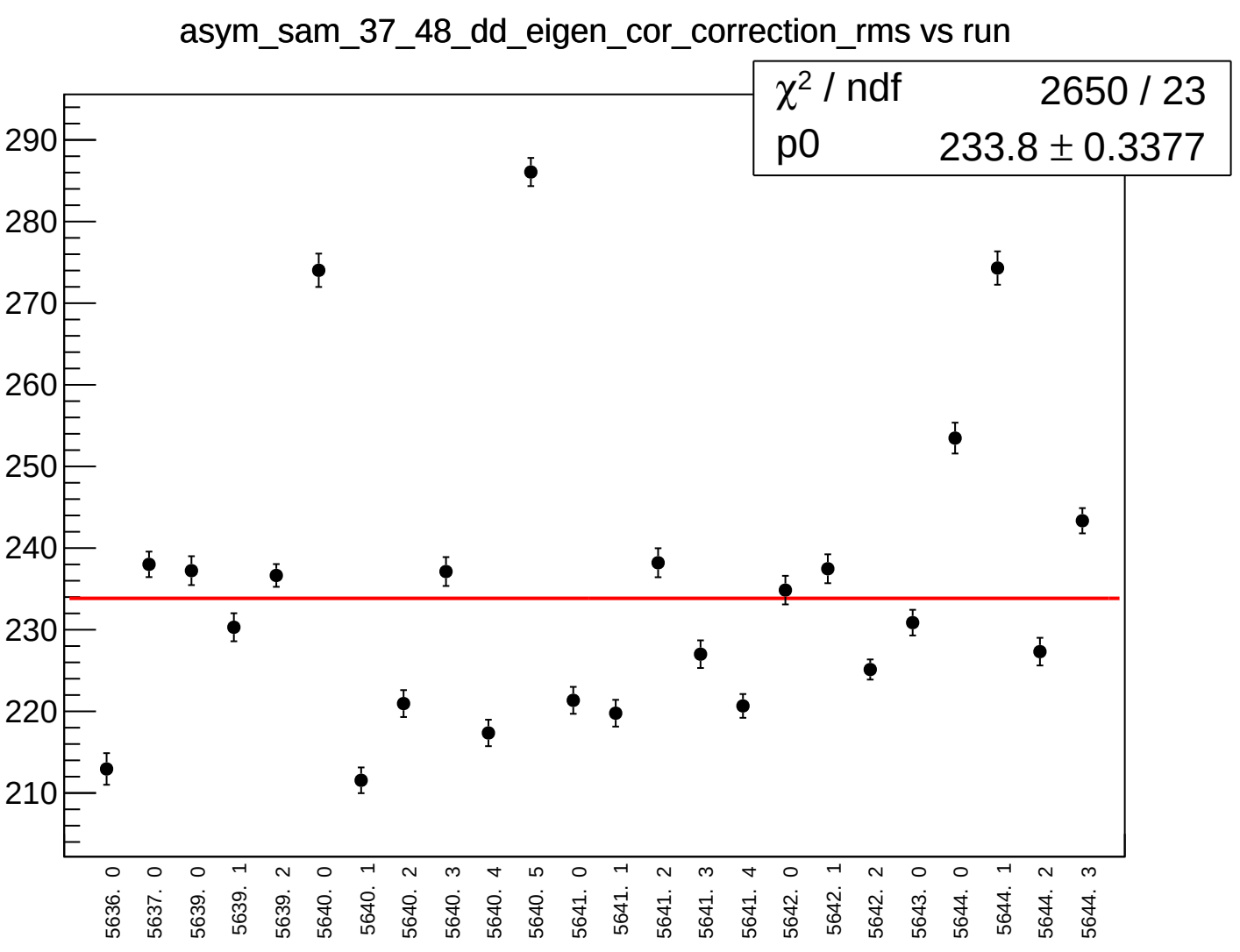

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 20.7 / 23
p0 293.8 ± 477.5
8000
6000
4000
2000
0
−2000
−4000
−6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −23.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.04507
Std Dev 0.9276
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_48_dd_cor_correction_rms vs run
χ² / ndf 2650 / 23
p0 233.8 ± 0.3377
290
280
270
260
250
240
230
220
210
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 25.48 / 23
p0 142 ± 110.4
2000
1500
1000
500
0
−500
−1000
−1500
−2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 390.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean −0.003917
Std Dev 1.03
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 1621 / 23
p0 54.13 ± 0.07808
62
60
58
56
54
52
50
48
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 20.7 / 23
p0 293.8 ± 477.5
8000
6000
4000
2000
0
−2000
−4000
−6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −23.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.04507
Std Dev 0.9276
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_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2650 / 23
p0 233.8 ± 0.3377
290
280
270
260
250
240
230
220
210
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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5642. 0
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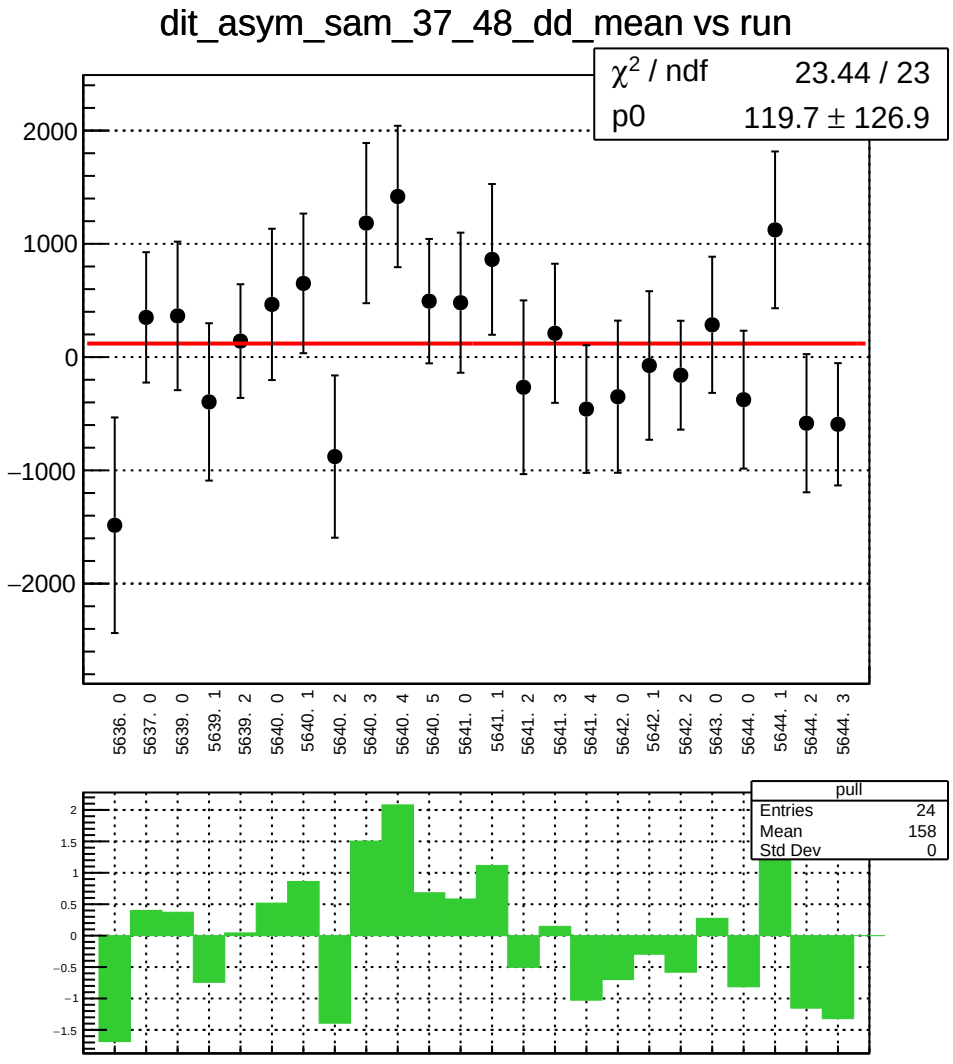
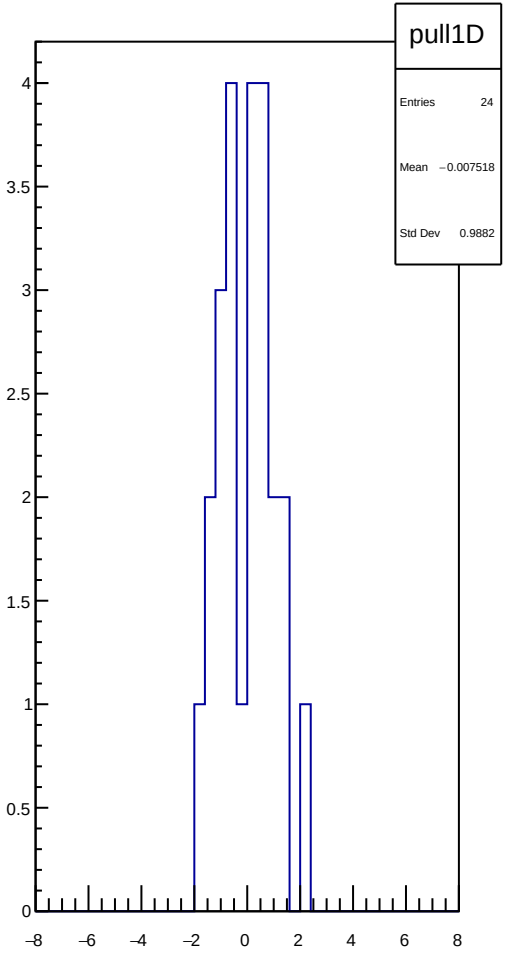
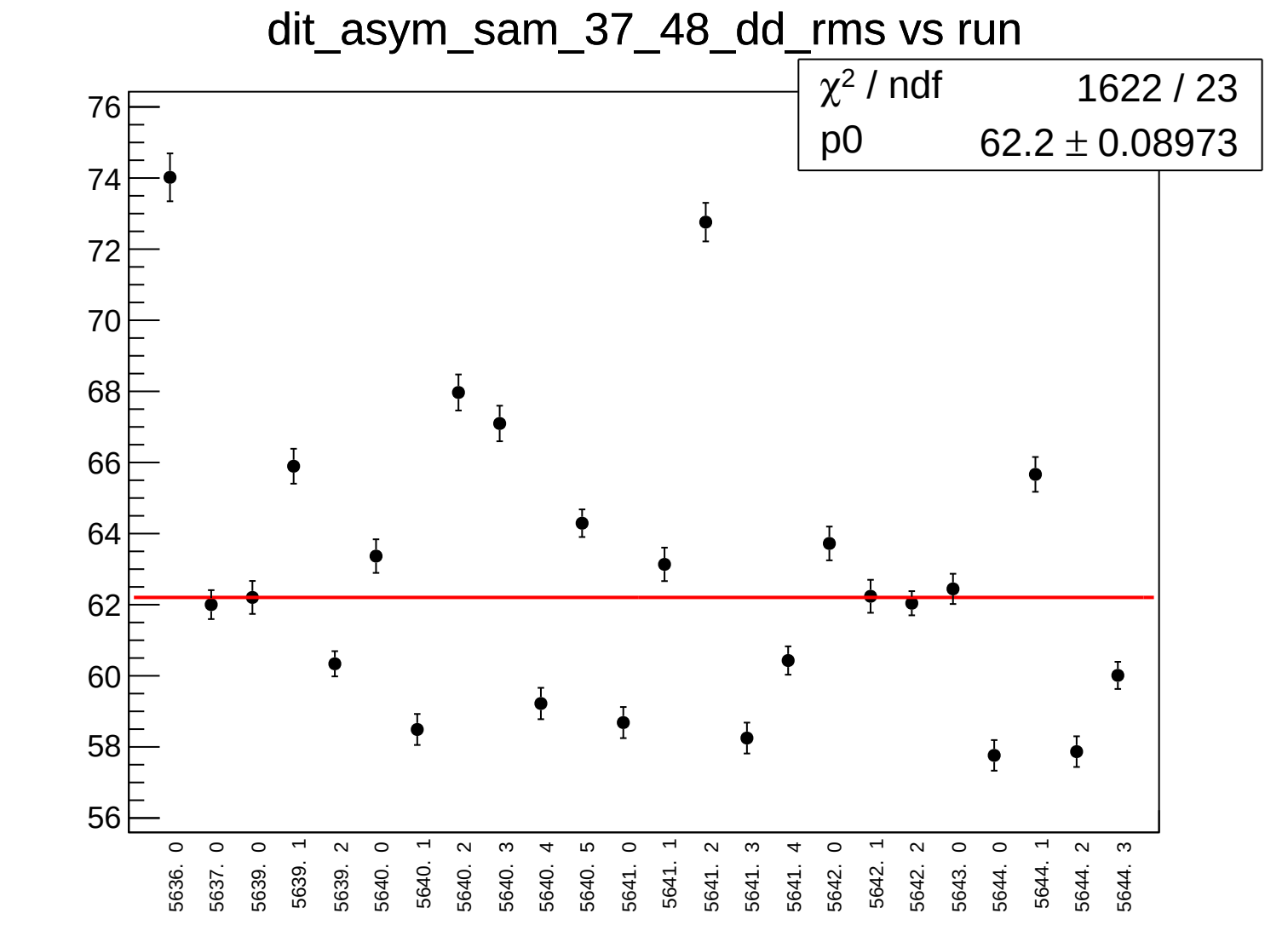
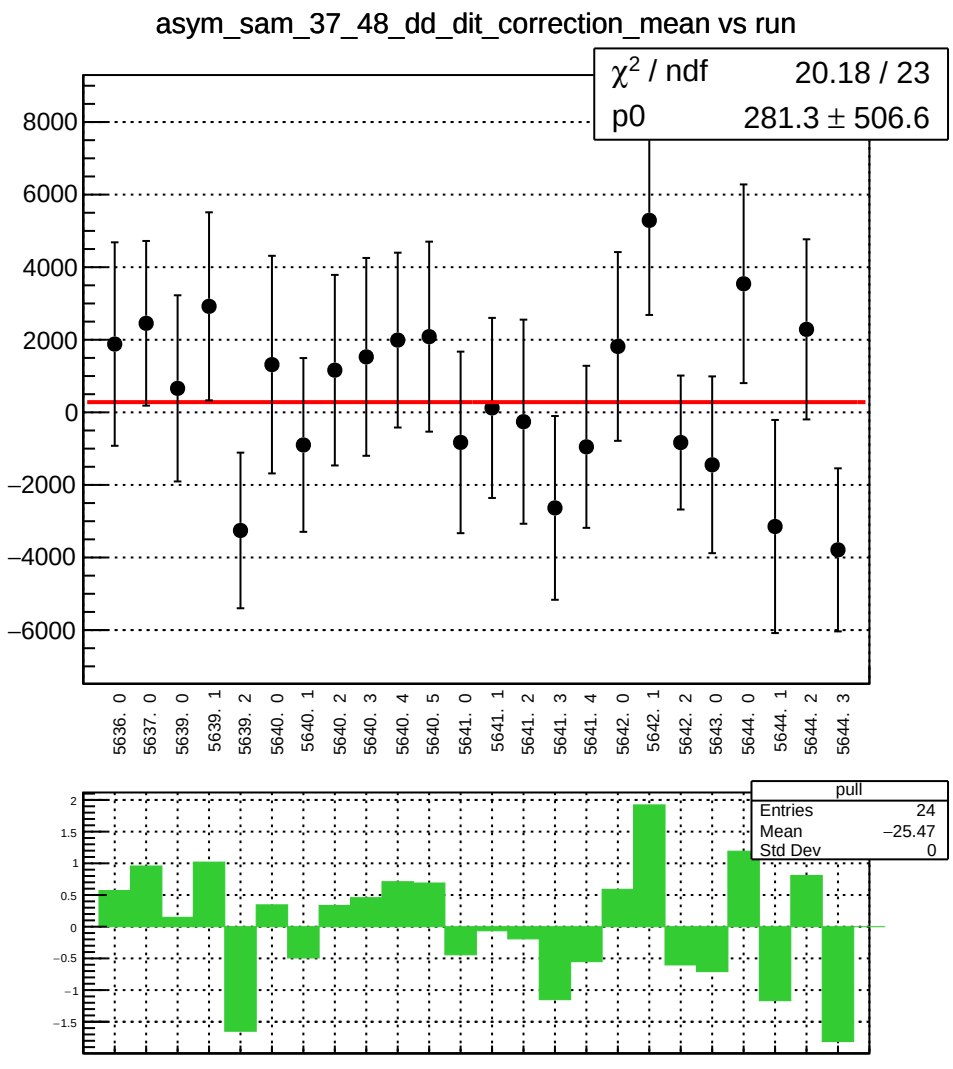
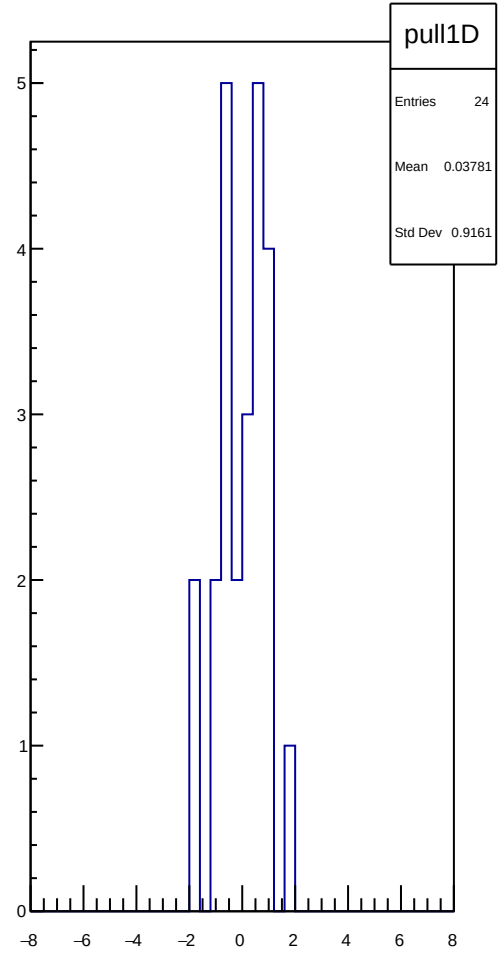
5644. 2
5644. 3

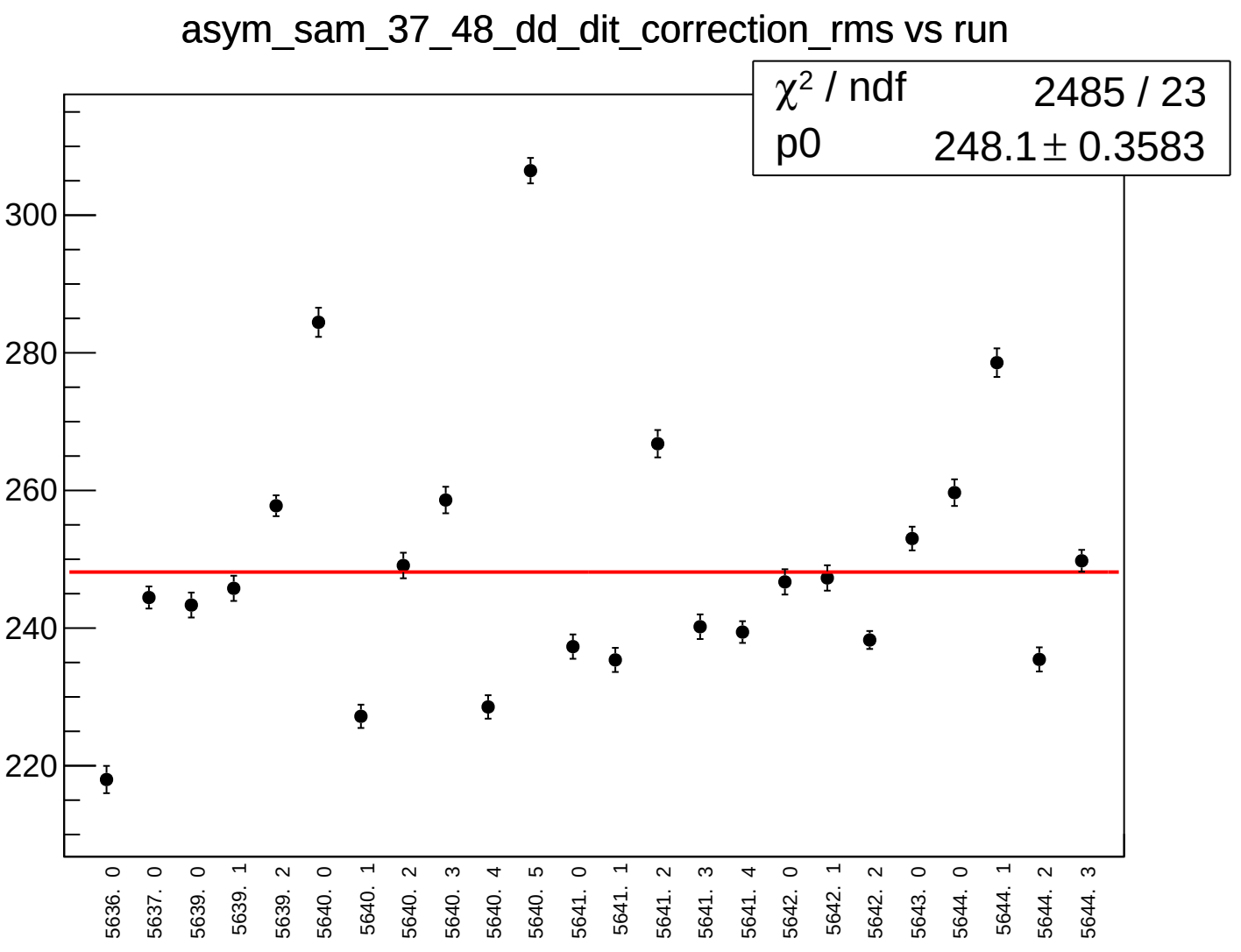

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 23.44 / 23
p0 119.7 ± 126.9
2000
1000
0
−1000
−2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 158
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean −0.007518
Std Dev 0.9882
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 1622 / 23
p0 62.2 ± 0.08973
76
74
72
70
68
66
64
62
60
58
56
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 20.18 / 23
p0 281.3 ± 506.6
8000
6000
4000
2000
0
−2000
−4000
−6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −25.47
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean 0.03781
Std Dev 0.9161
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 2485 / 23
p0 248.1 ± 0.3583
300
280
260
240
220
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5642. 0
5642. 1
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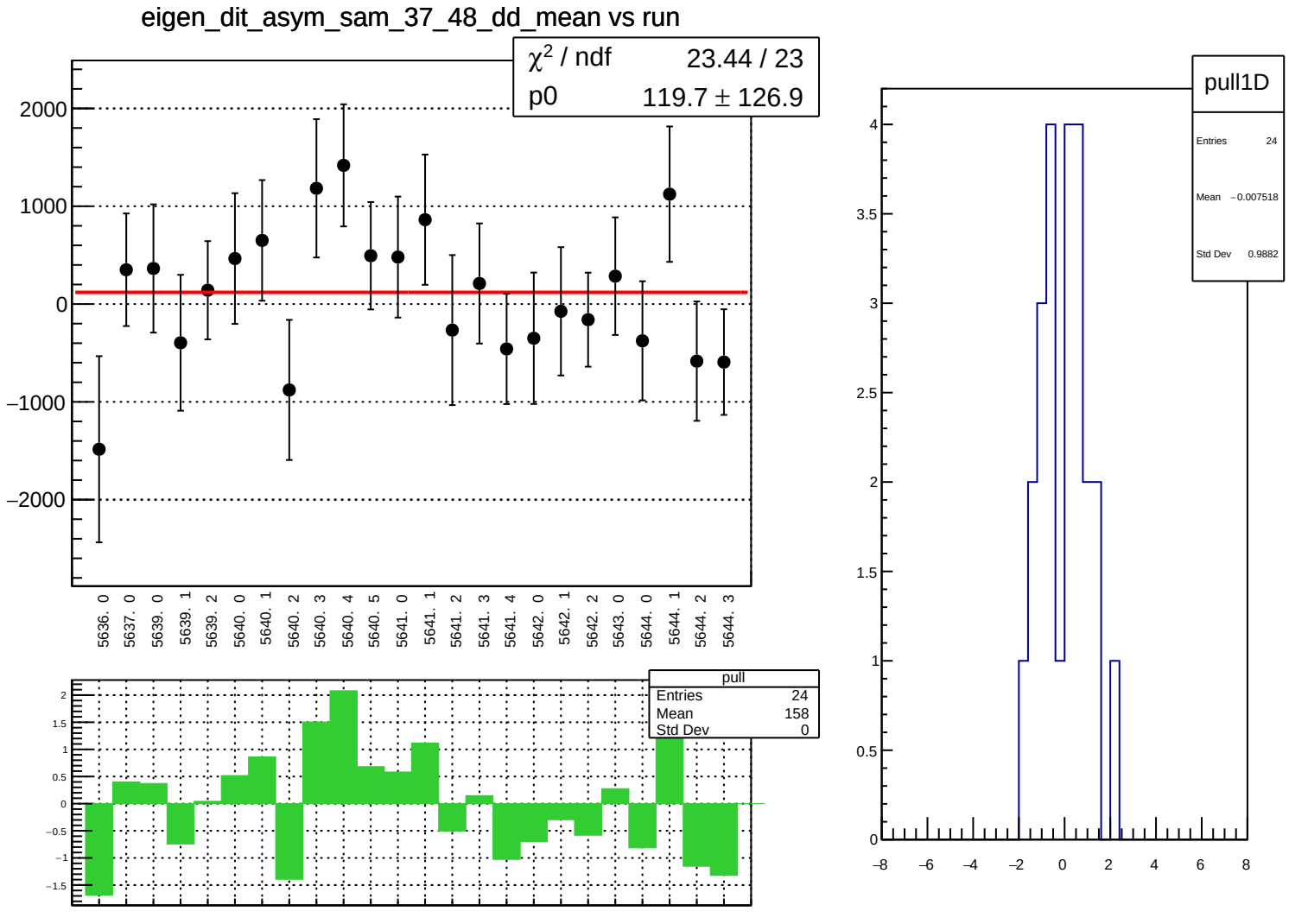
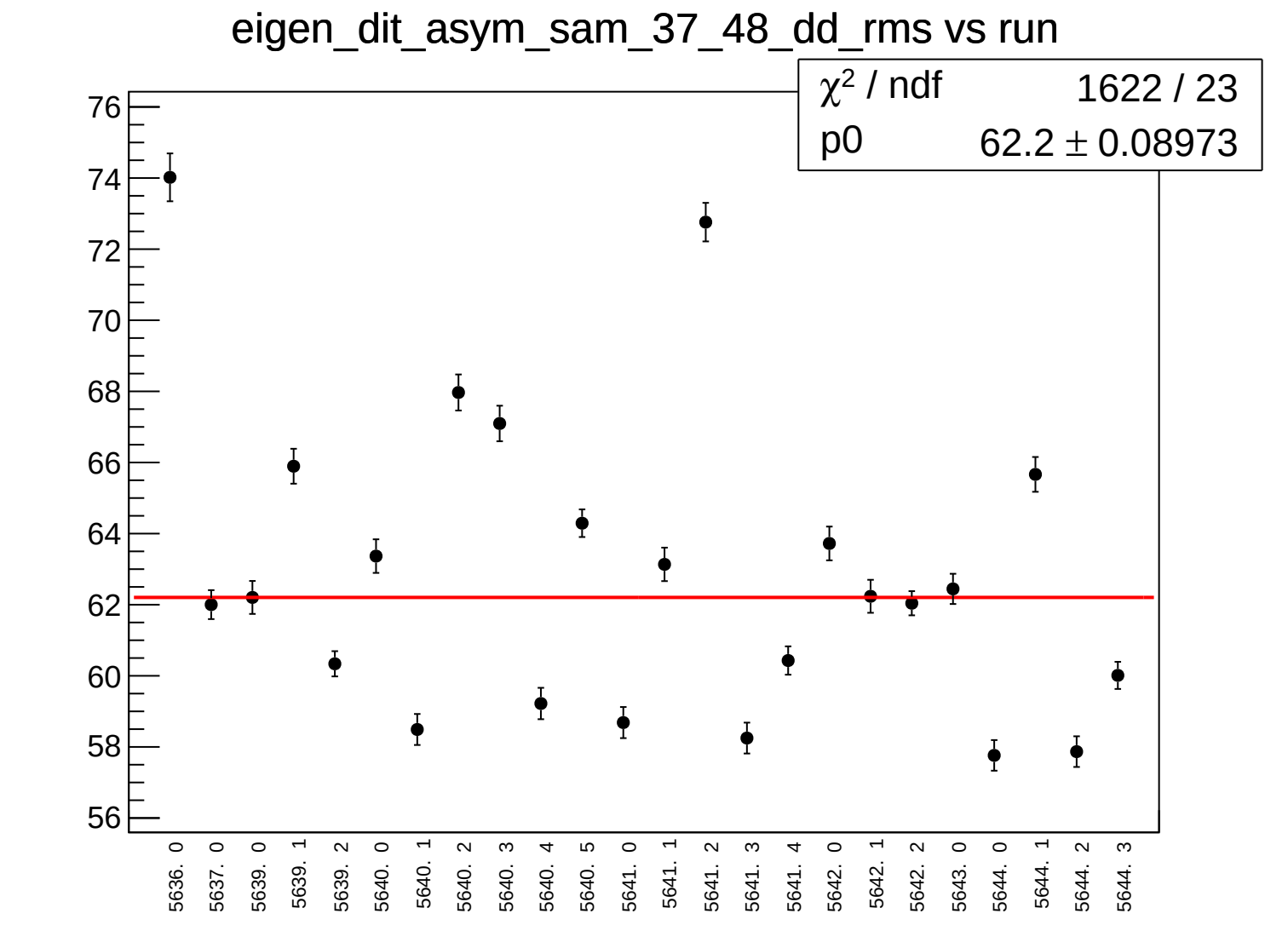
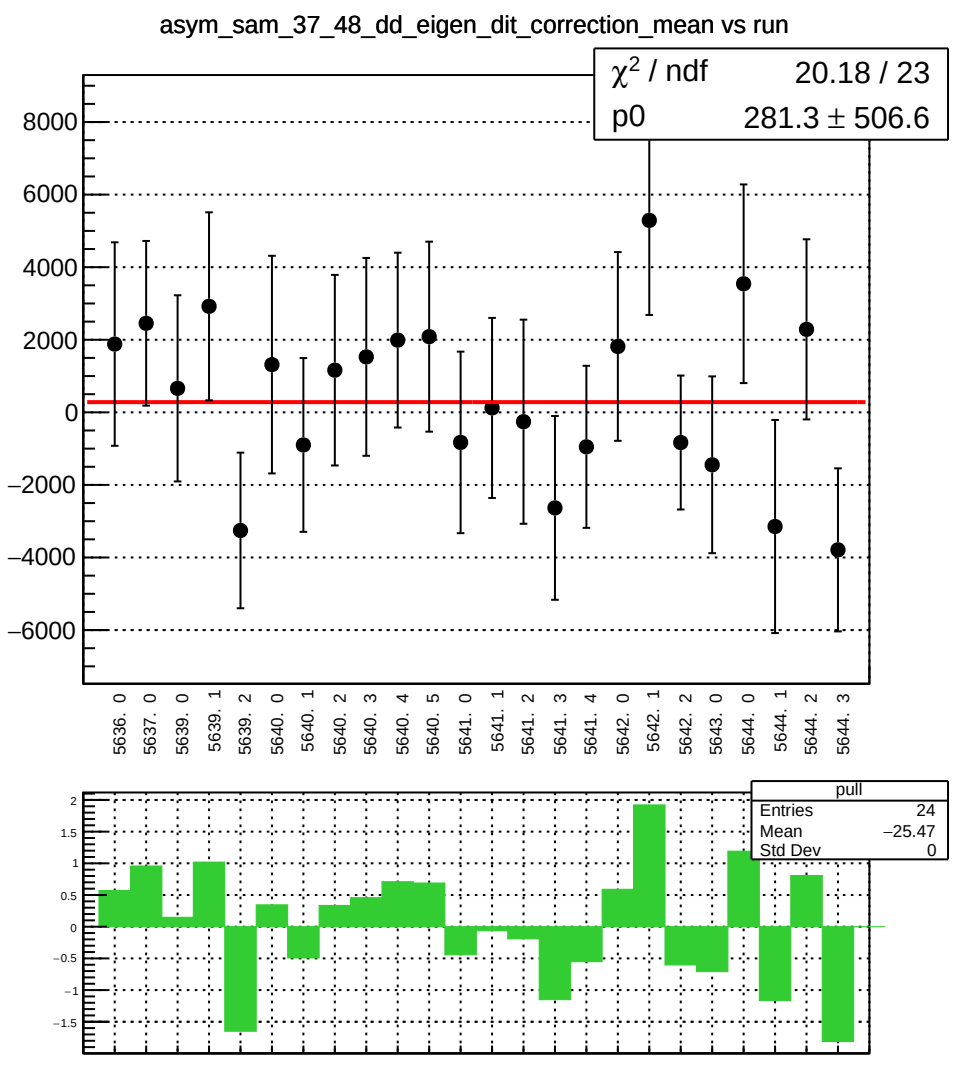
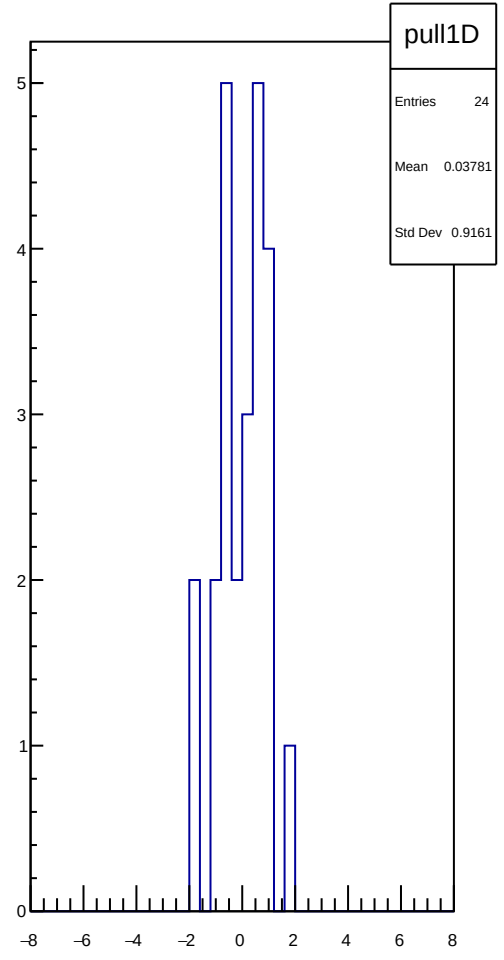
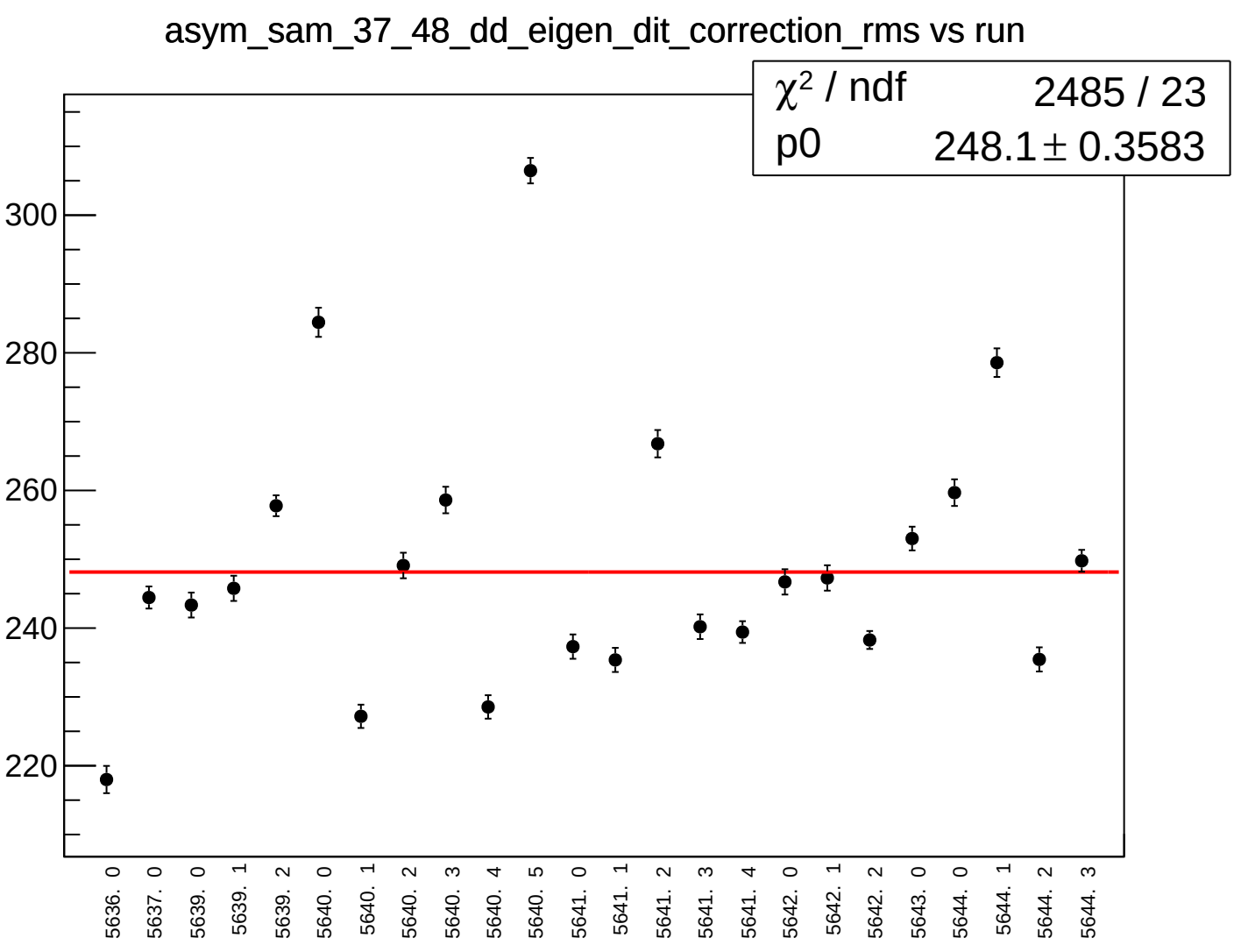
5644. 0
5644. 1
5644. 2
5644. 3

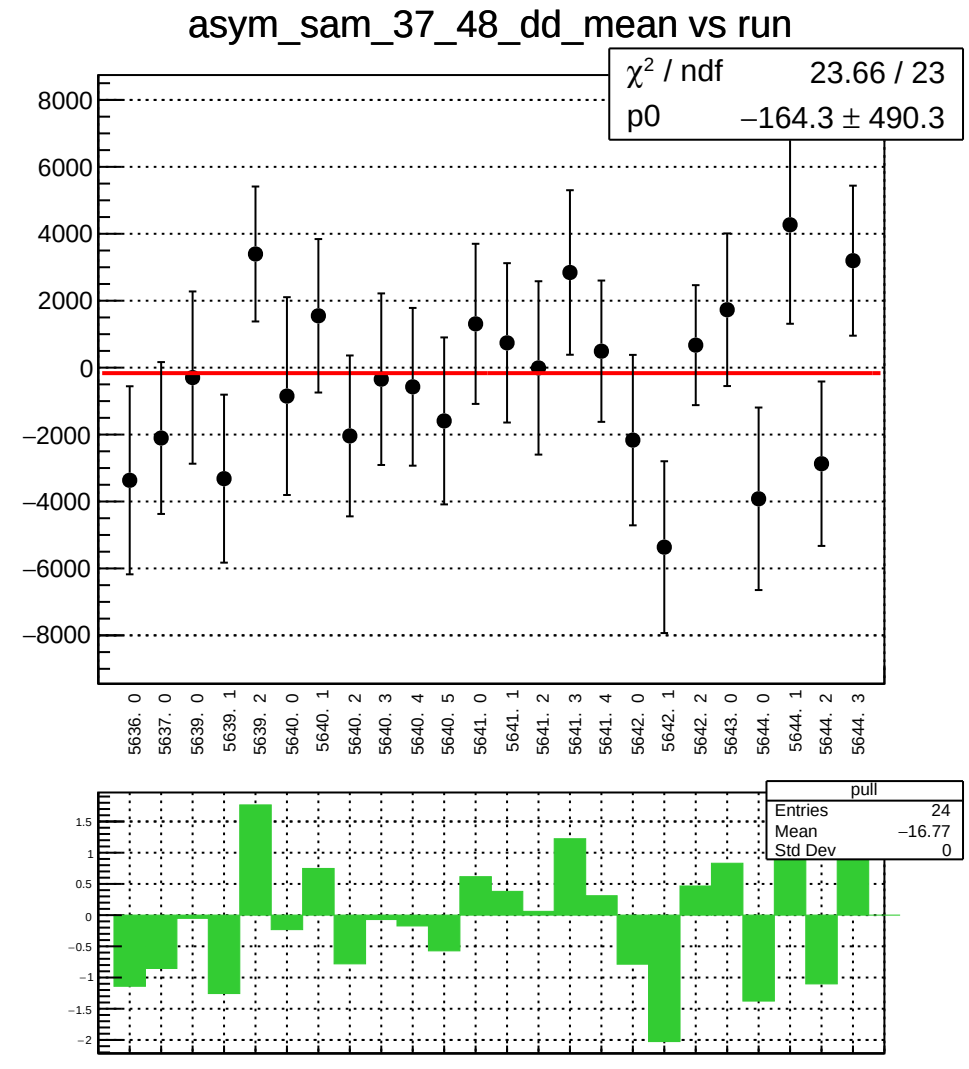

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 23.44 / 23
p0 119.7 ± 126.9
2000
1000
0
−1000
−2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 158
Std Dev 0
pull1D
Entries 24
Mean −0.007518
Std Dev 0.9882
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

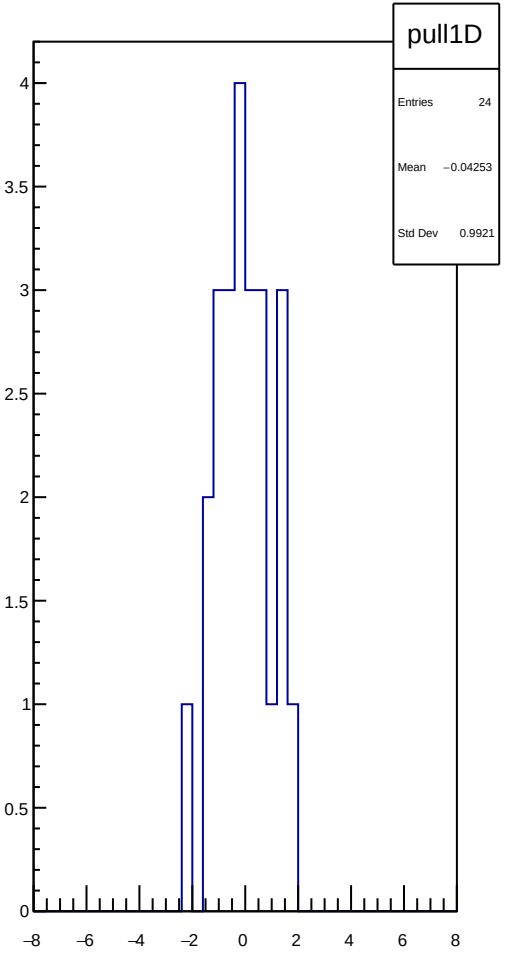

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 1622 / 23
p0 62.2 ± 0.08973
76
74
72
70
68
66
64
62
60
58
56
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

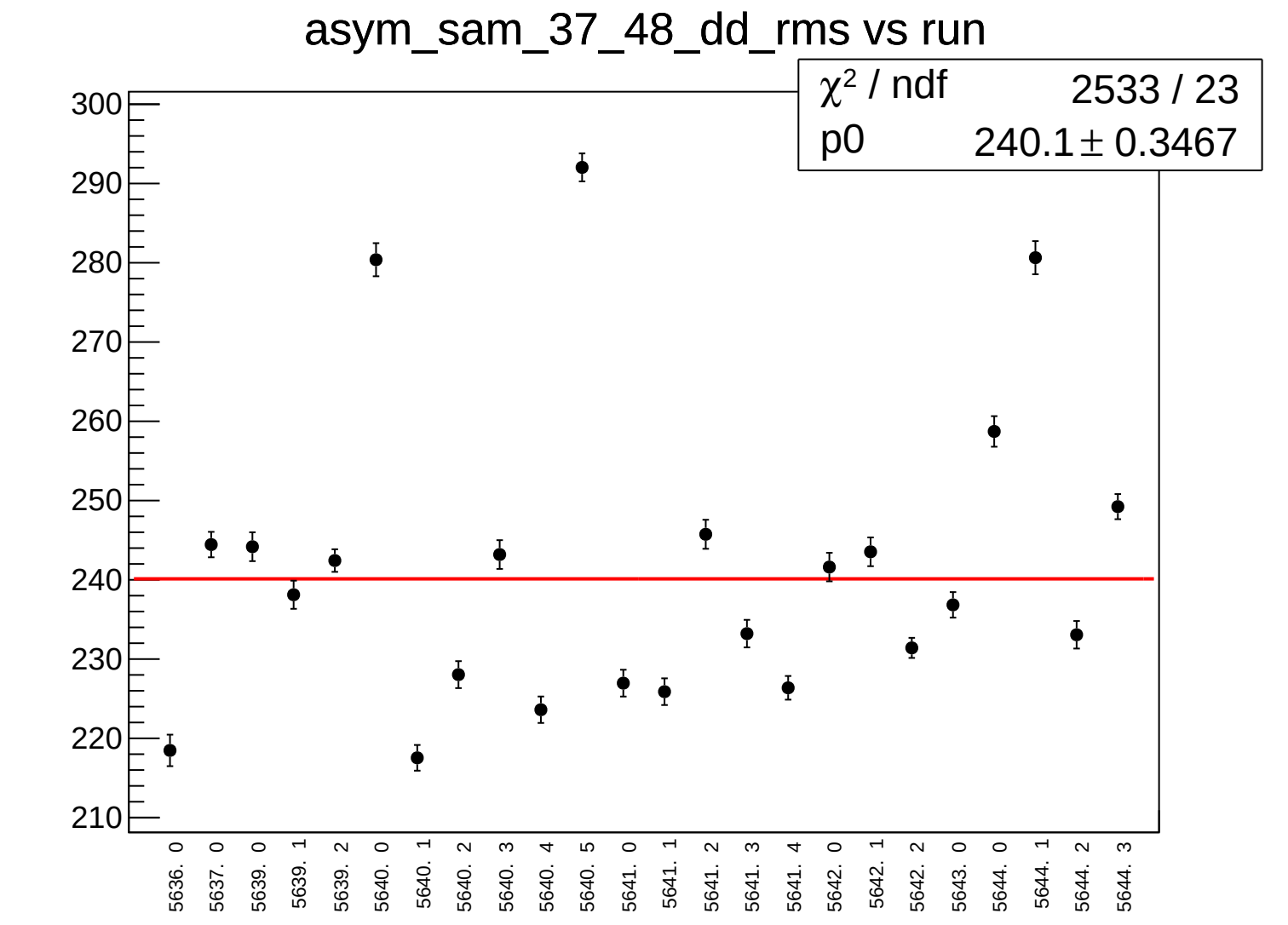

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 20.18 / 23
p0 281.3 ± 506.6
8000
6000
4000
2000
0
−2000
−4000
−6000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −25.47
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

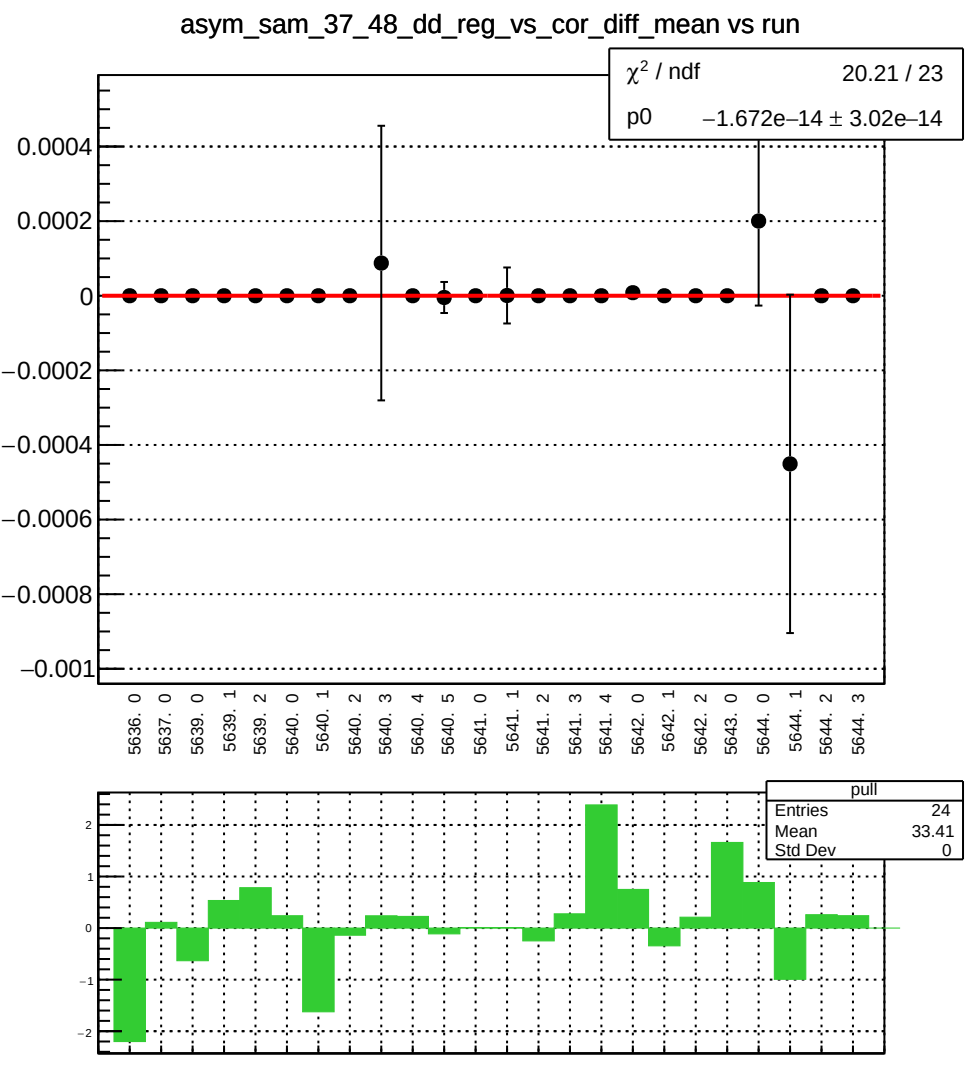

pull1D
Entries 24
Mean 0.03781
Std Dev 0.9161
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

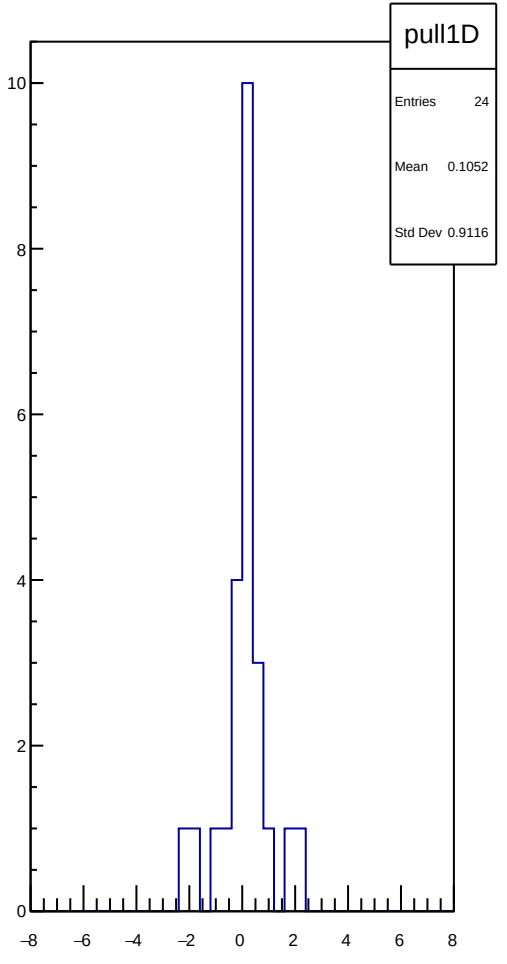

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2485 / 23
p0 248.1 ± 0.3583
300
280
260
240
220
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

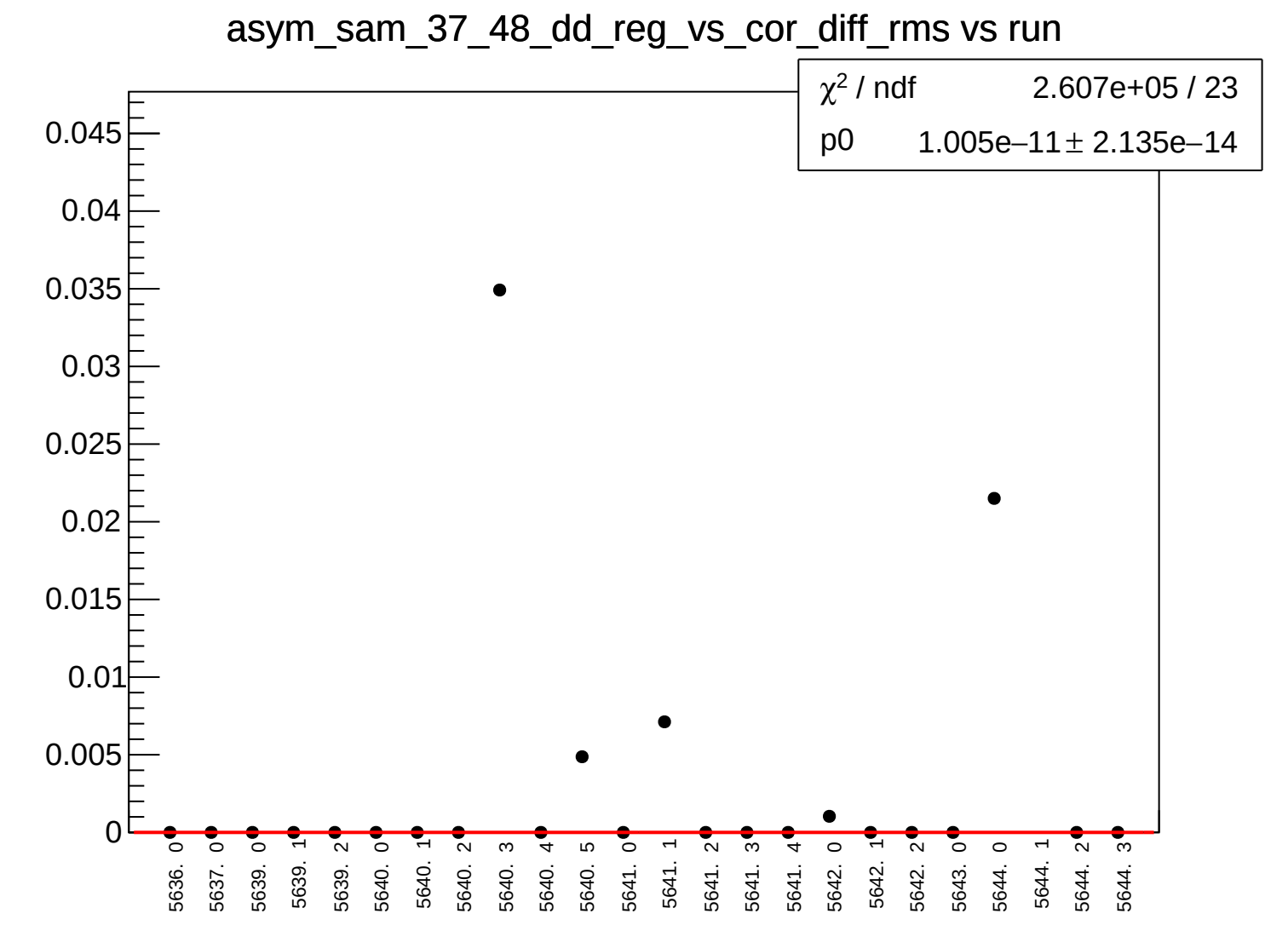

asym_sam_37_48_dd_mean vs run
χ² / ndf 23.66 / 23
p0 −164.3 ± 490.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −16.77
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

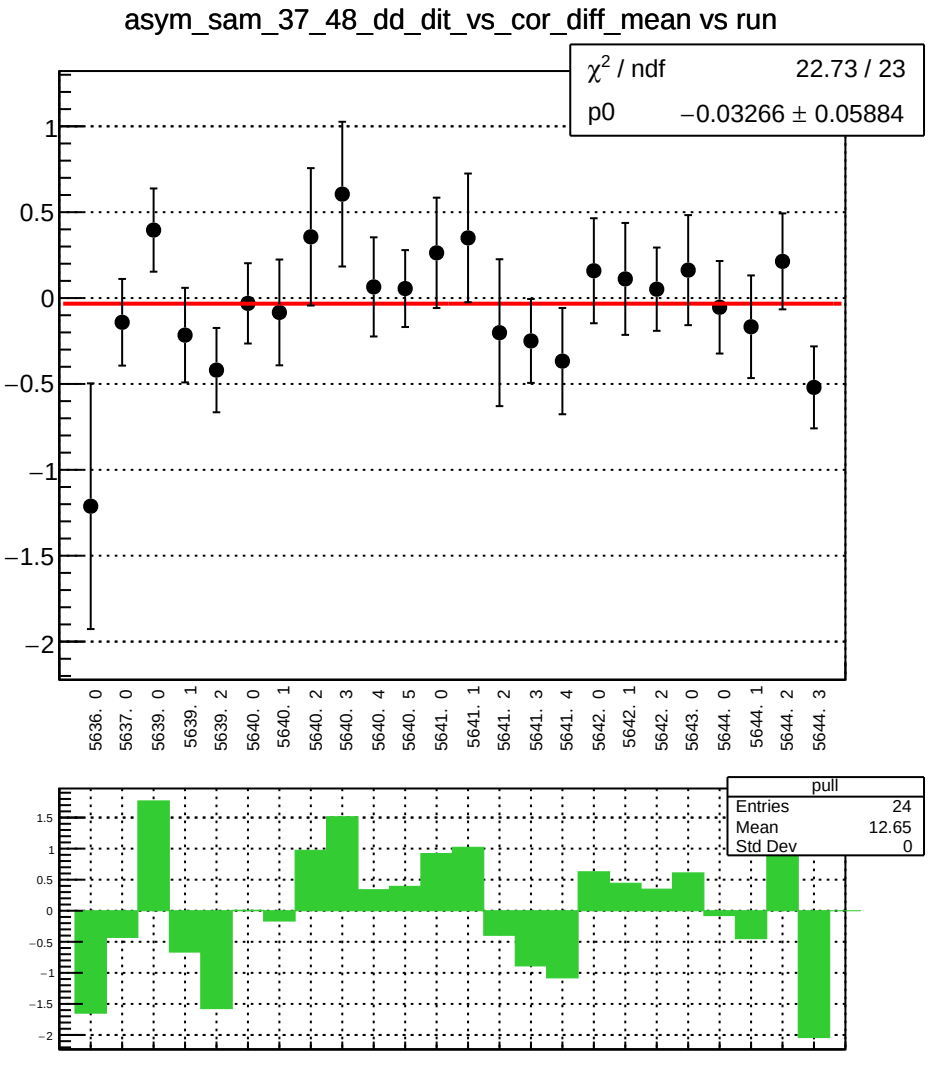

pull1D
Entries 24
Mean −0.04253
Std Dev 0.9921
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

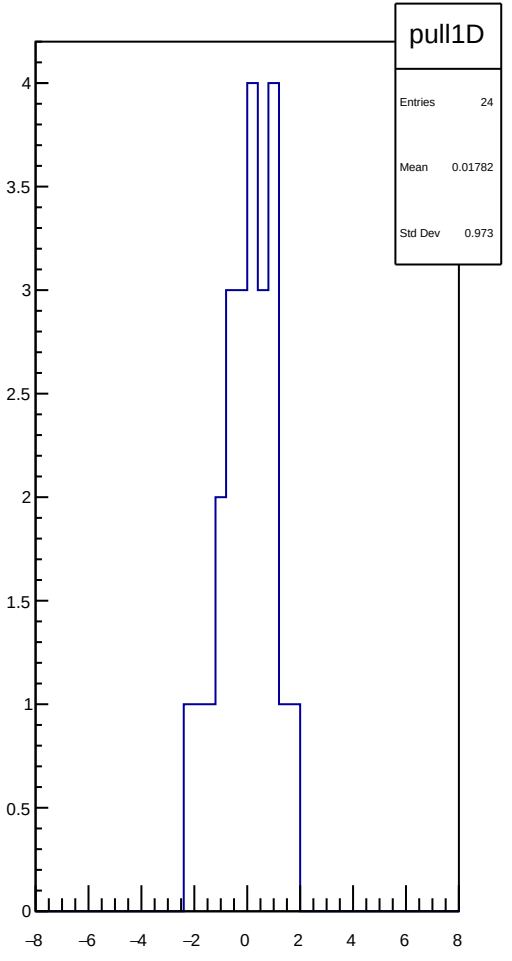

asym_sam_37_48_dd_rms vs run
χ² / ndf 2533 / 23
p0 240.1 ± 0.3467
300
290
280
270
260
250
240
230
220
210
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

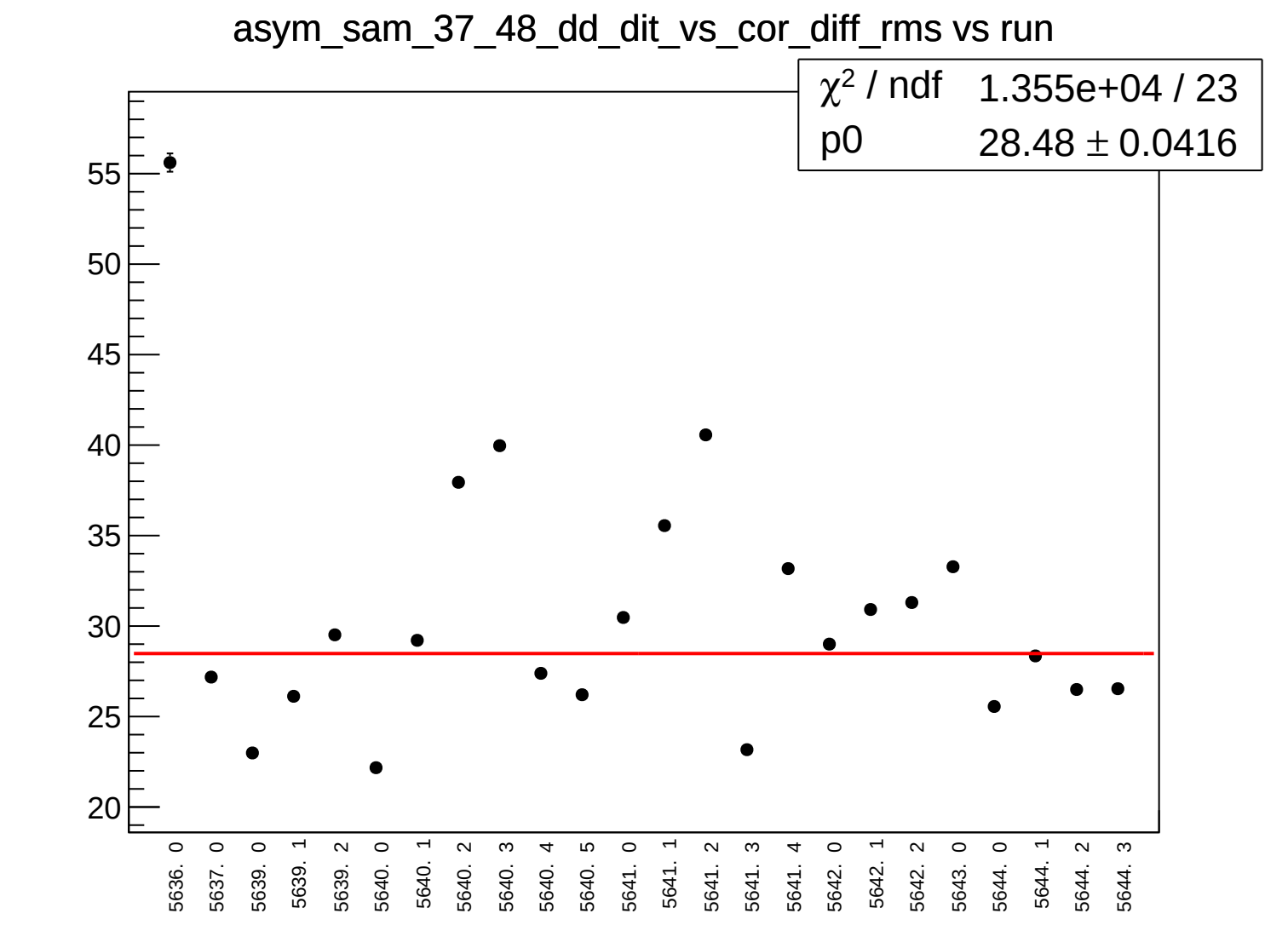

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 20.21 / 23
p0 −1.672e−14 ± 3.02e−14
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 33.41
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 24
Mean 0.1052
Std Dev 0.9116
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

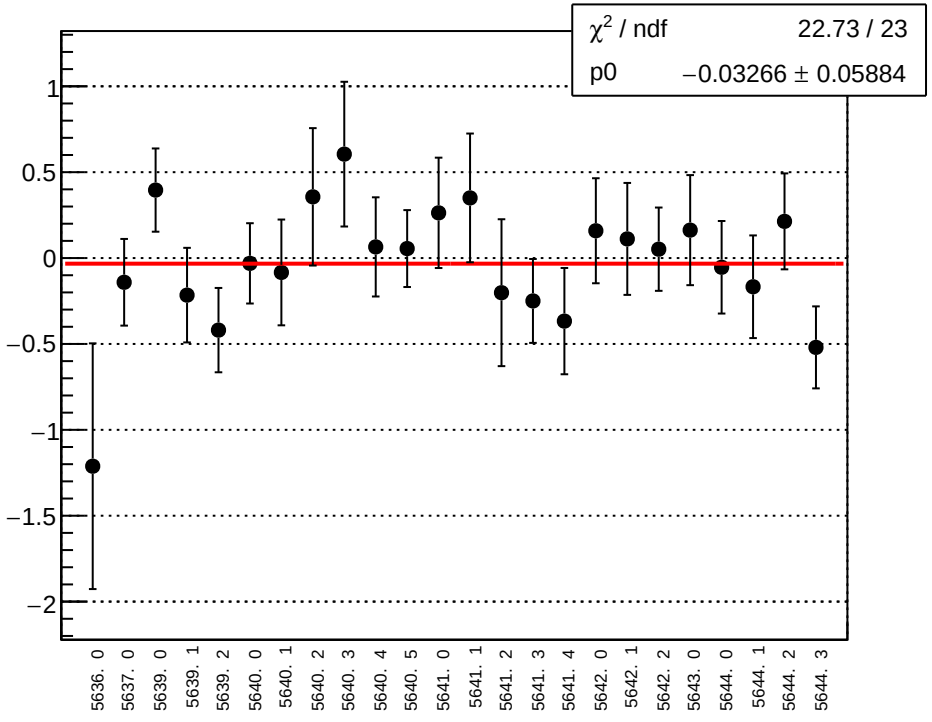

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.607e+05 / 23
p0 1.005e−11 ± 2.135e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

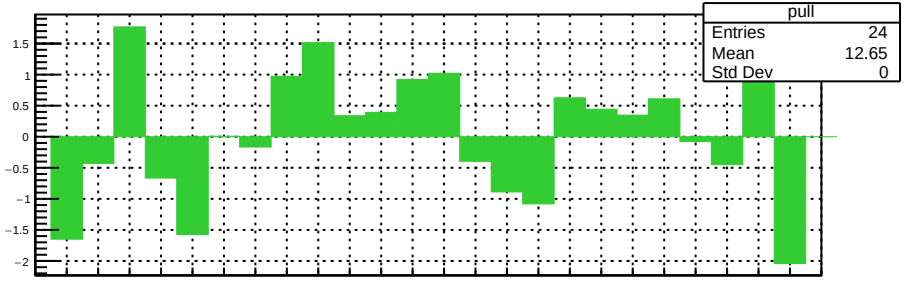

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 22.73 / 23
p0 −0.03266 ± 0.05884
1
0.5
0
−0.5
−1
−1.5
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 12.65
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

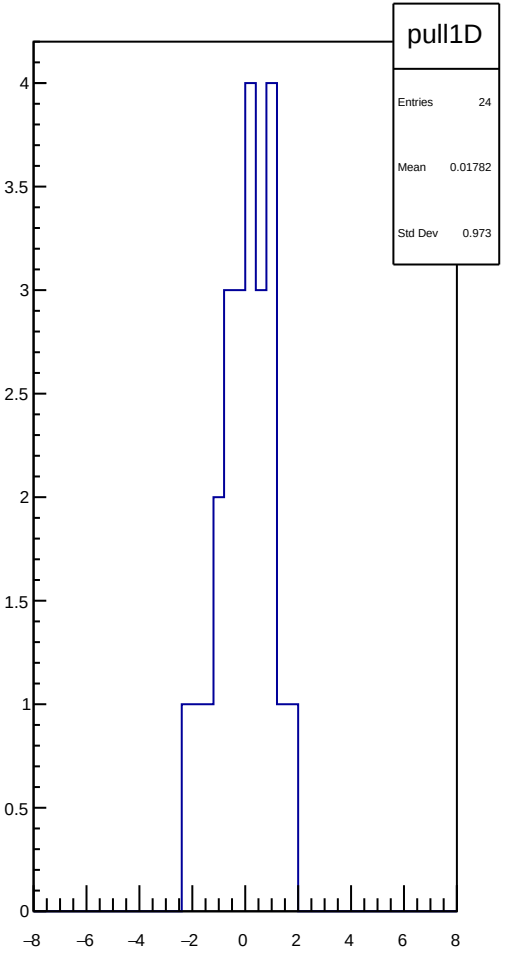

pull1D
Entries 24
Mean 0.01782
Std Dev 0.973
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

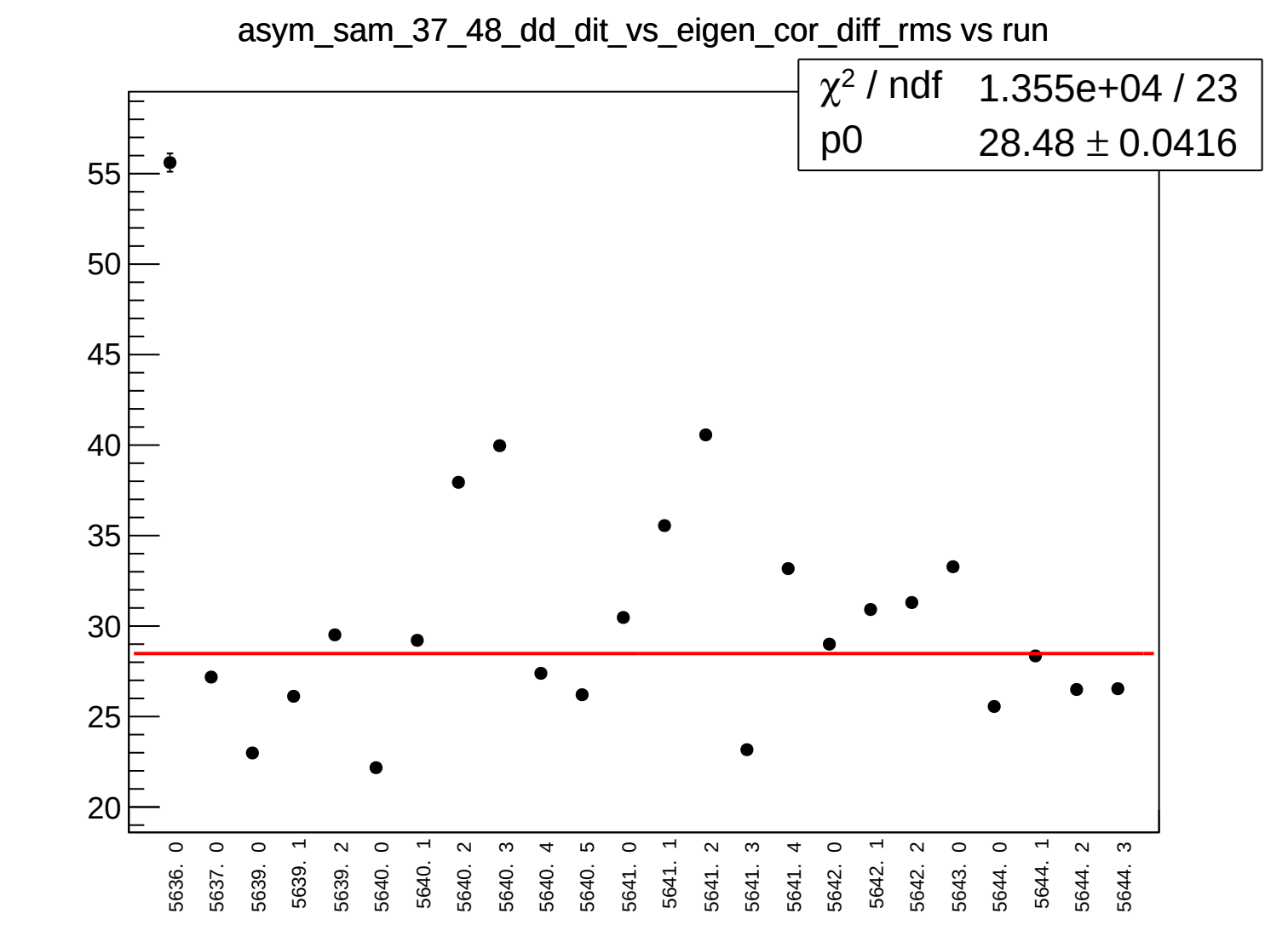

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.355e+04 / 23
p0 28.48 ± 0.0416
55
50
45
40
35
30
25
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

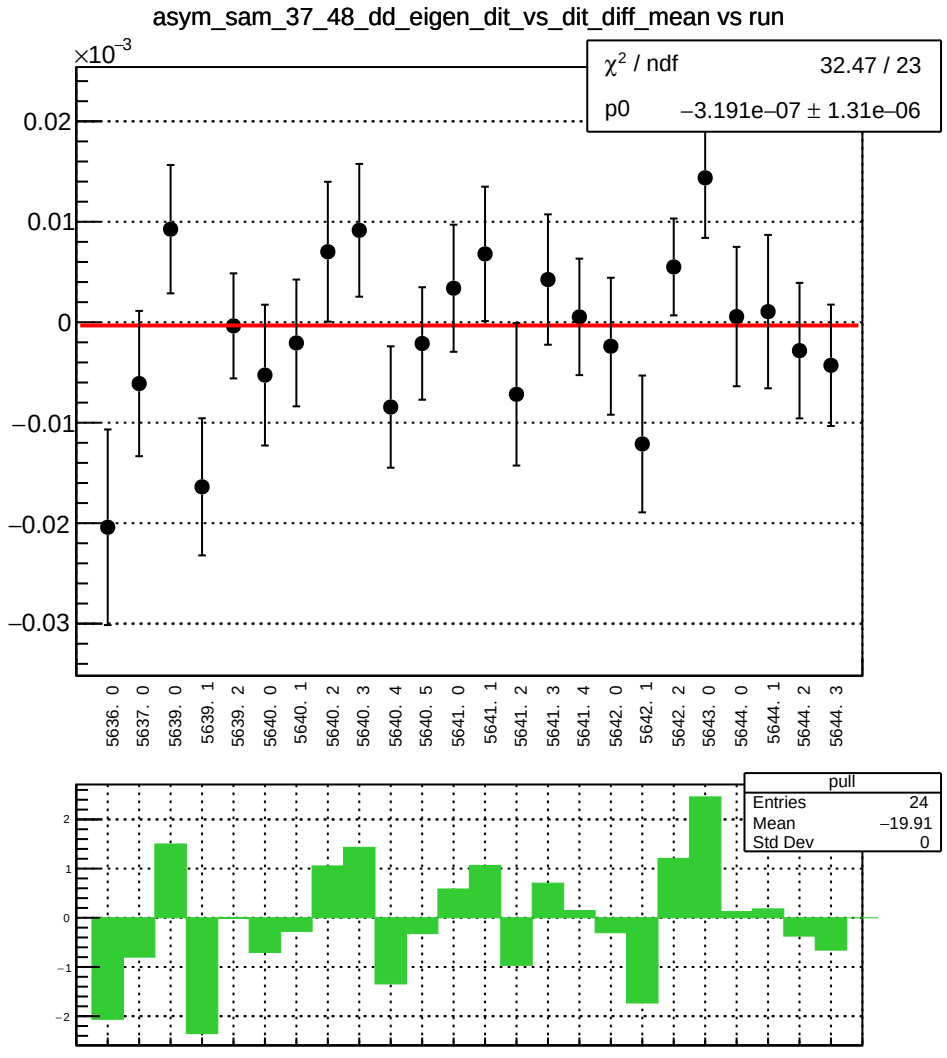
asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run

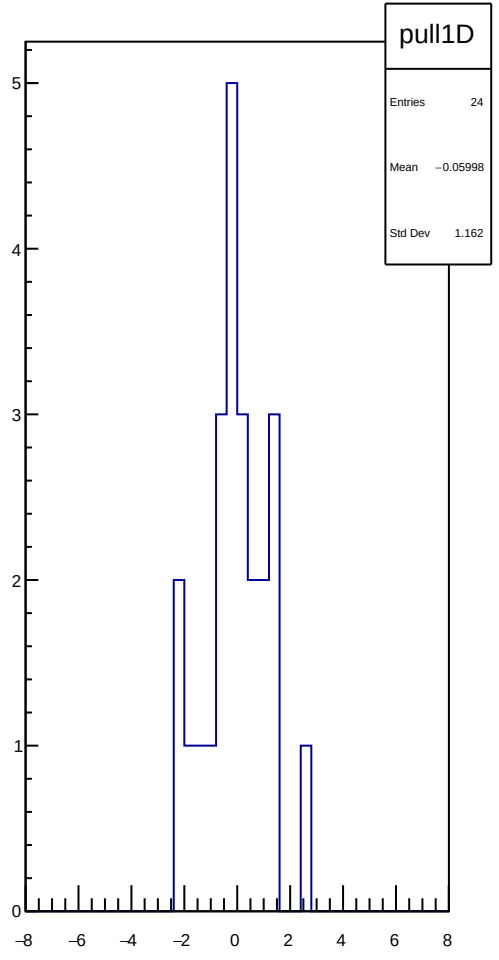


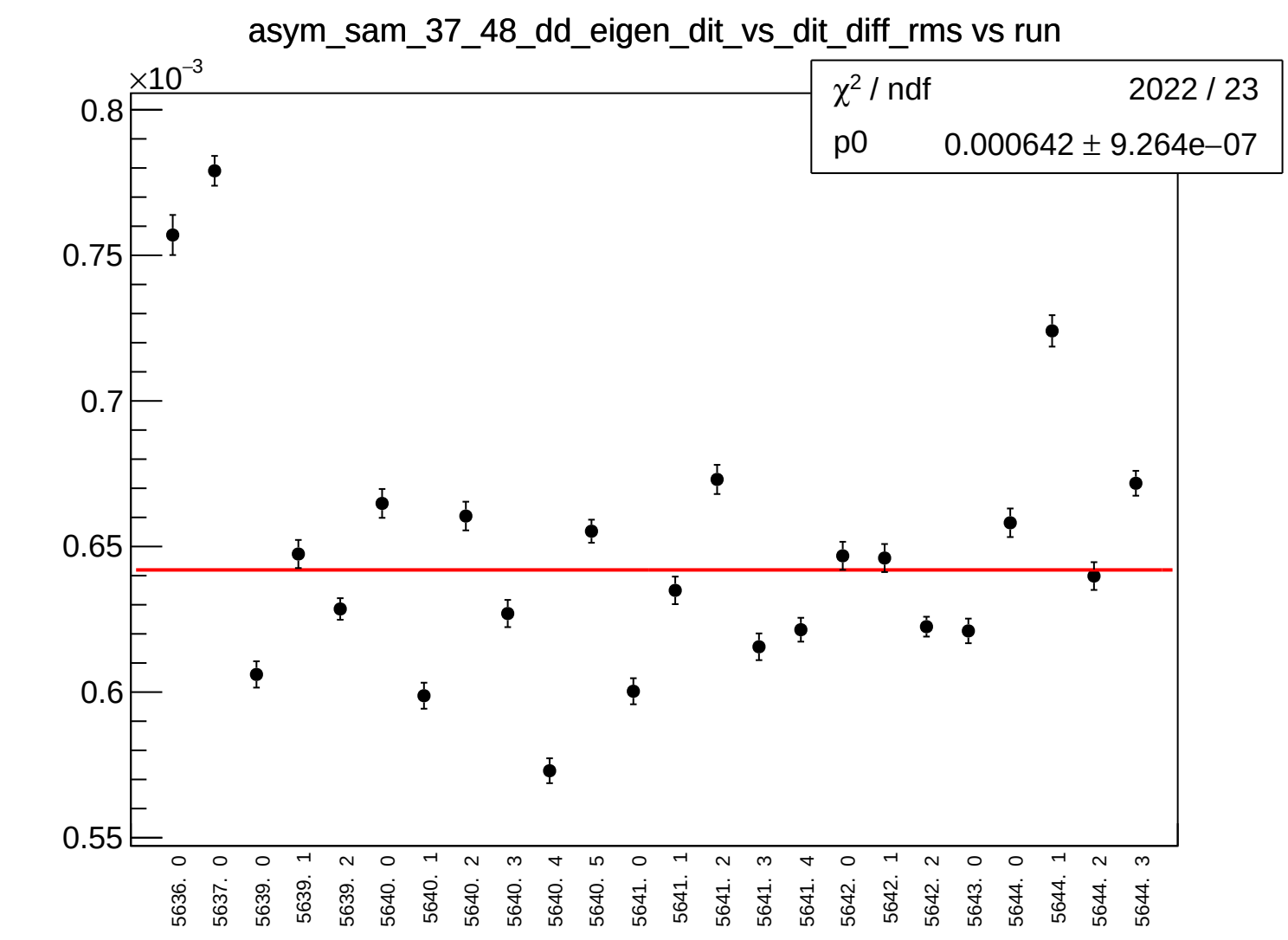


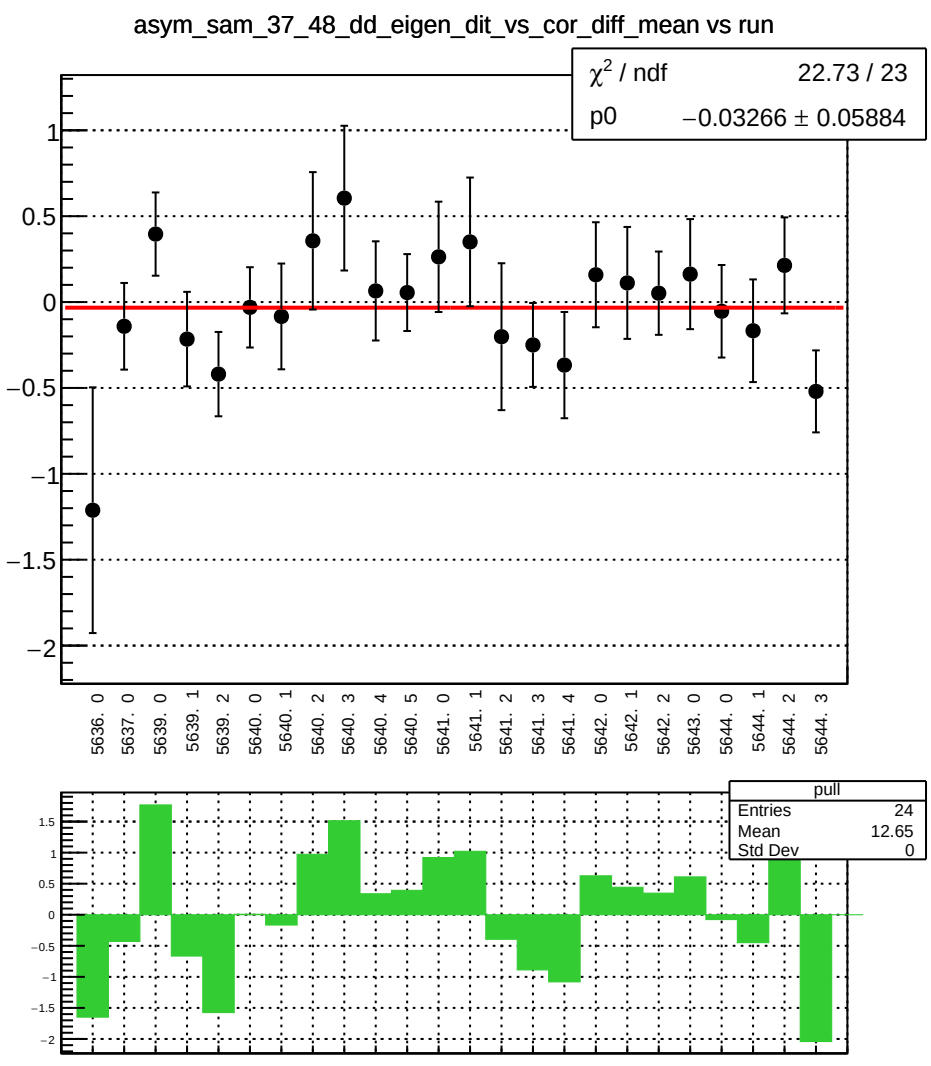


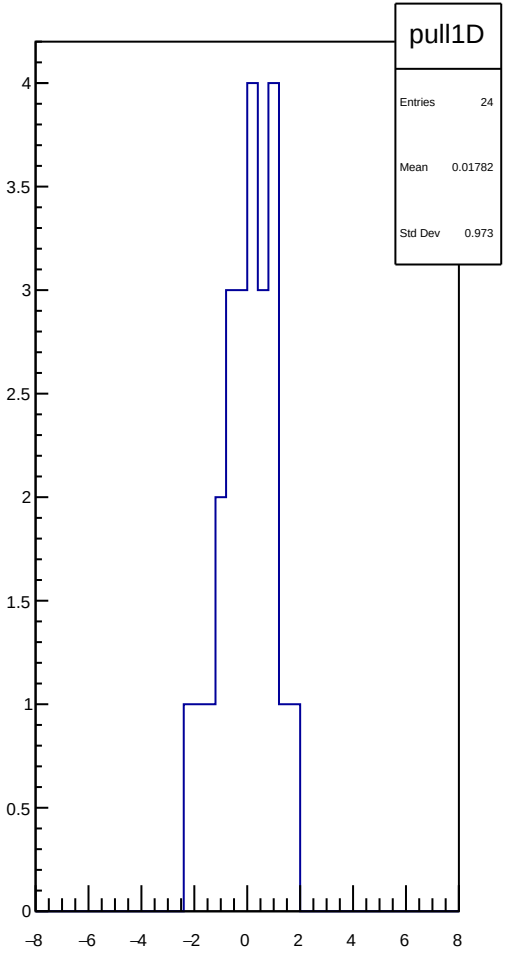

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.355e+04 / 23
p0 28.48 ± 0.0416
55
50
45
40
35
30
25
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

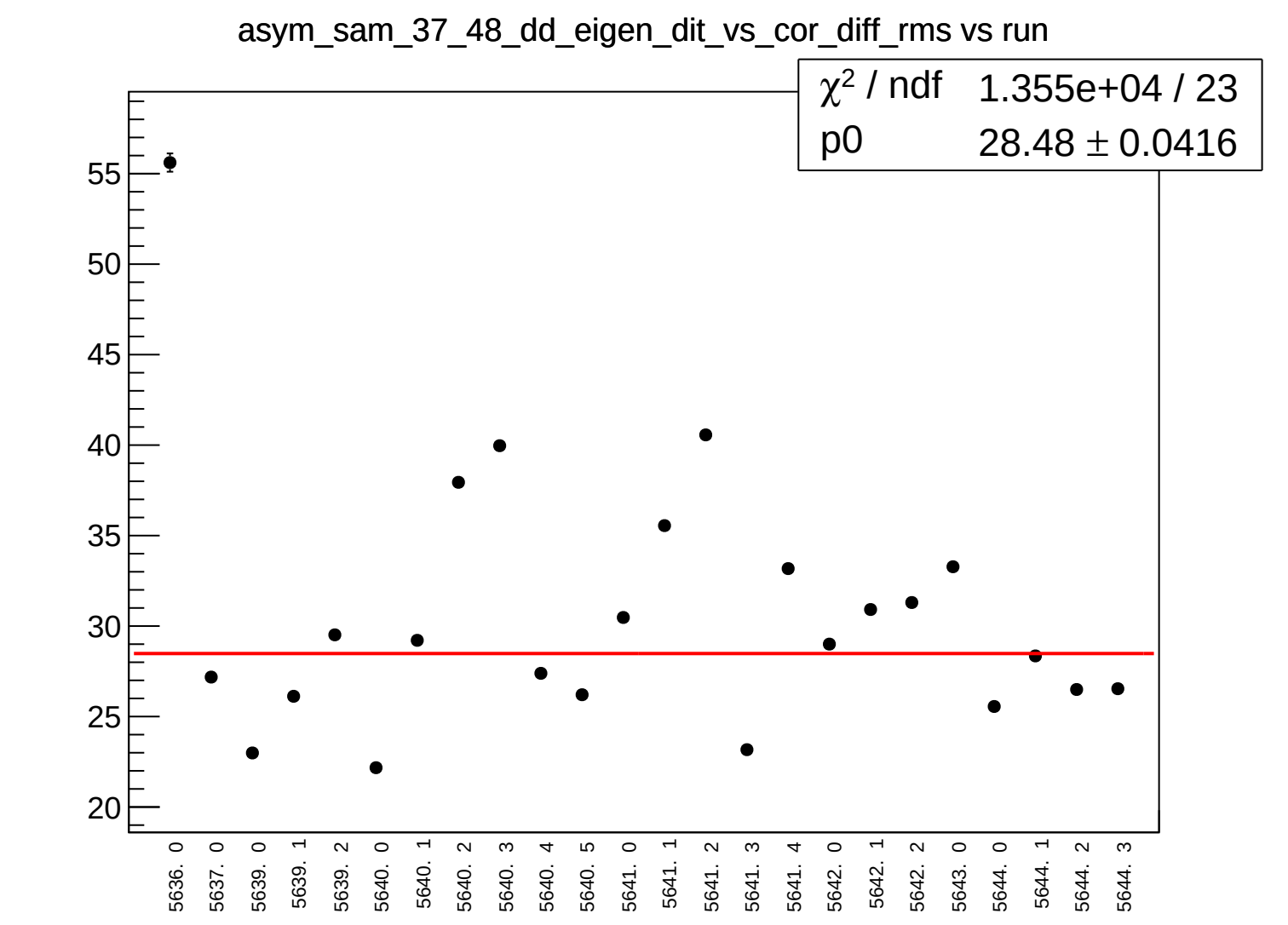

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 32.47 / 23
p0 −3.191e−07 ± 1.31e−06
0.02
0.01
0
−0.01
−0.02
−0.03
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −19.91
Std Dev 0
2
1
0
−1
−2

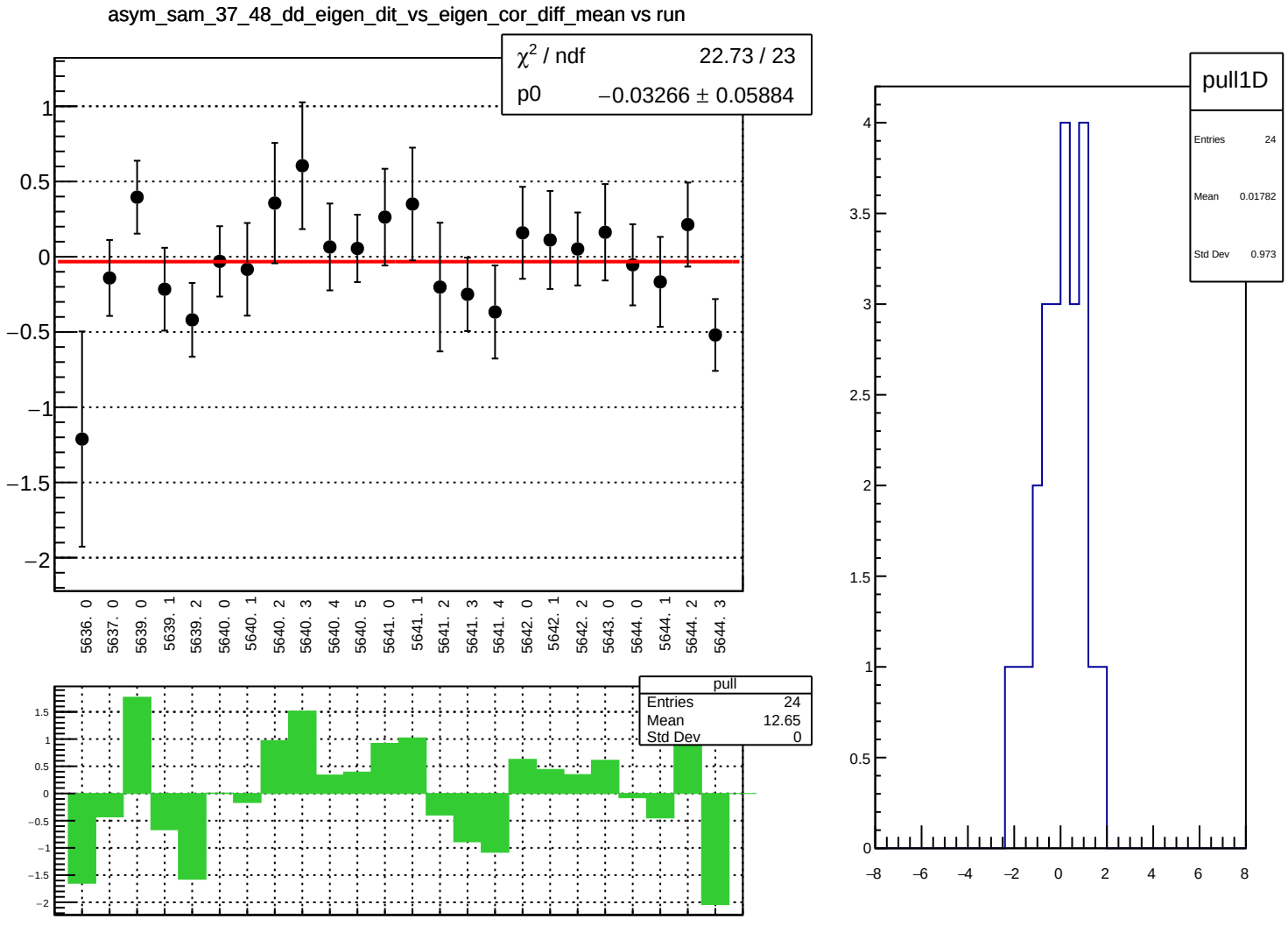

pull1D
Entries 24
Mean −0.05998
Std Dev 1.162
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

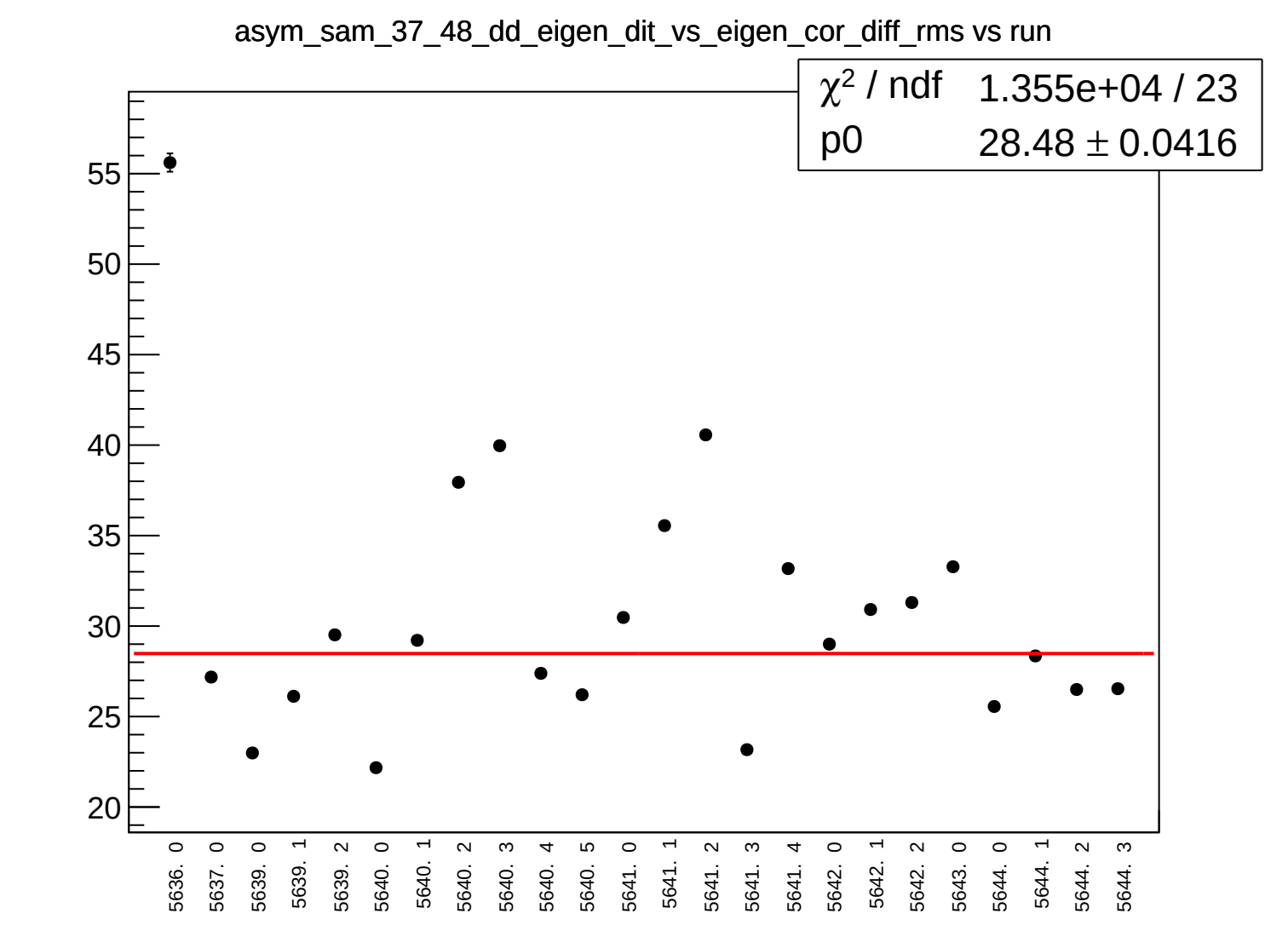

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 2022 / 23
p0 0.000642 ± 9.264e−07
0.8
0.75
0.7
0.65
0.6
0.55
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

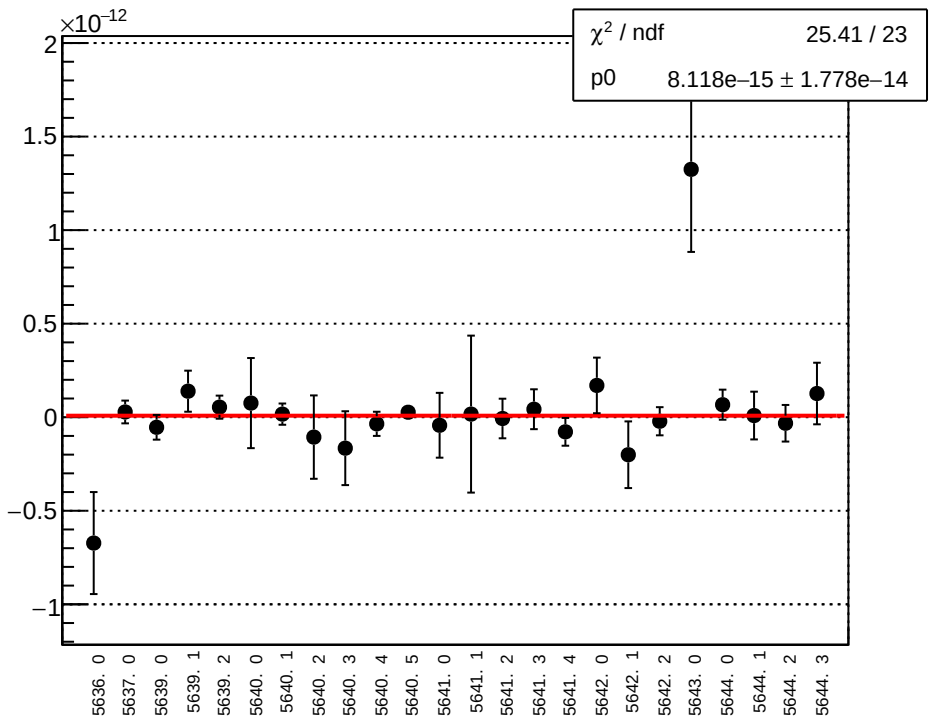

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 22.73 / 23
p0 −0.03266 ± 0.05884
1
0.5
0
−0.5
−1
−1.5
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 12.65
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

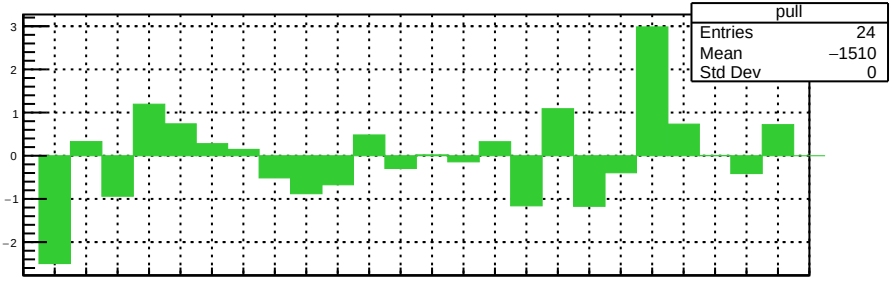

pull1D
Entries 24
Mean 0.01782
Std Dev 0.973
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

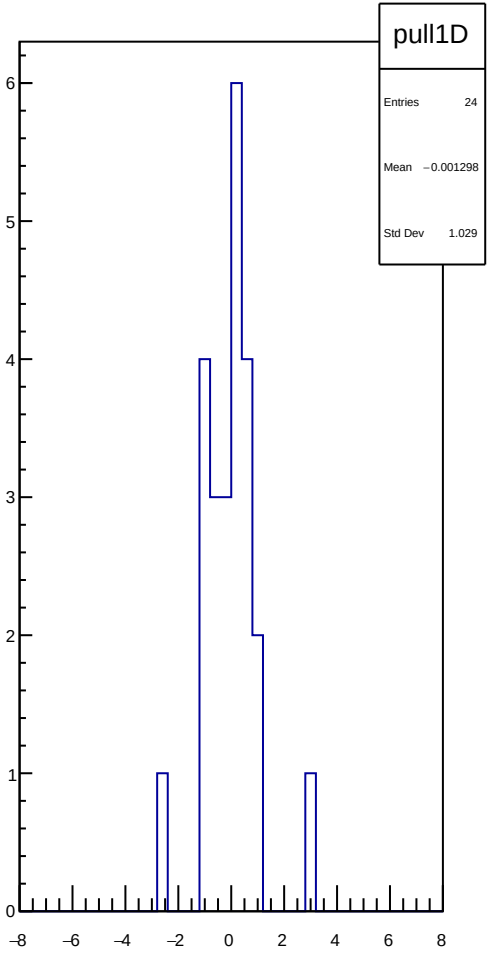

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.355e+04 / 23
p0 28.48 ± 0.0416
55
50
45
40
35
30
25
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

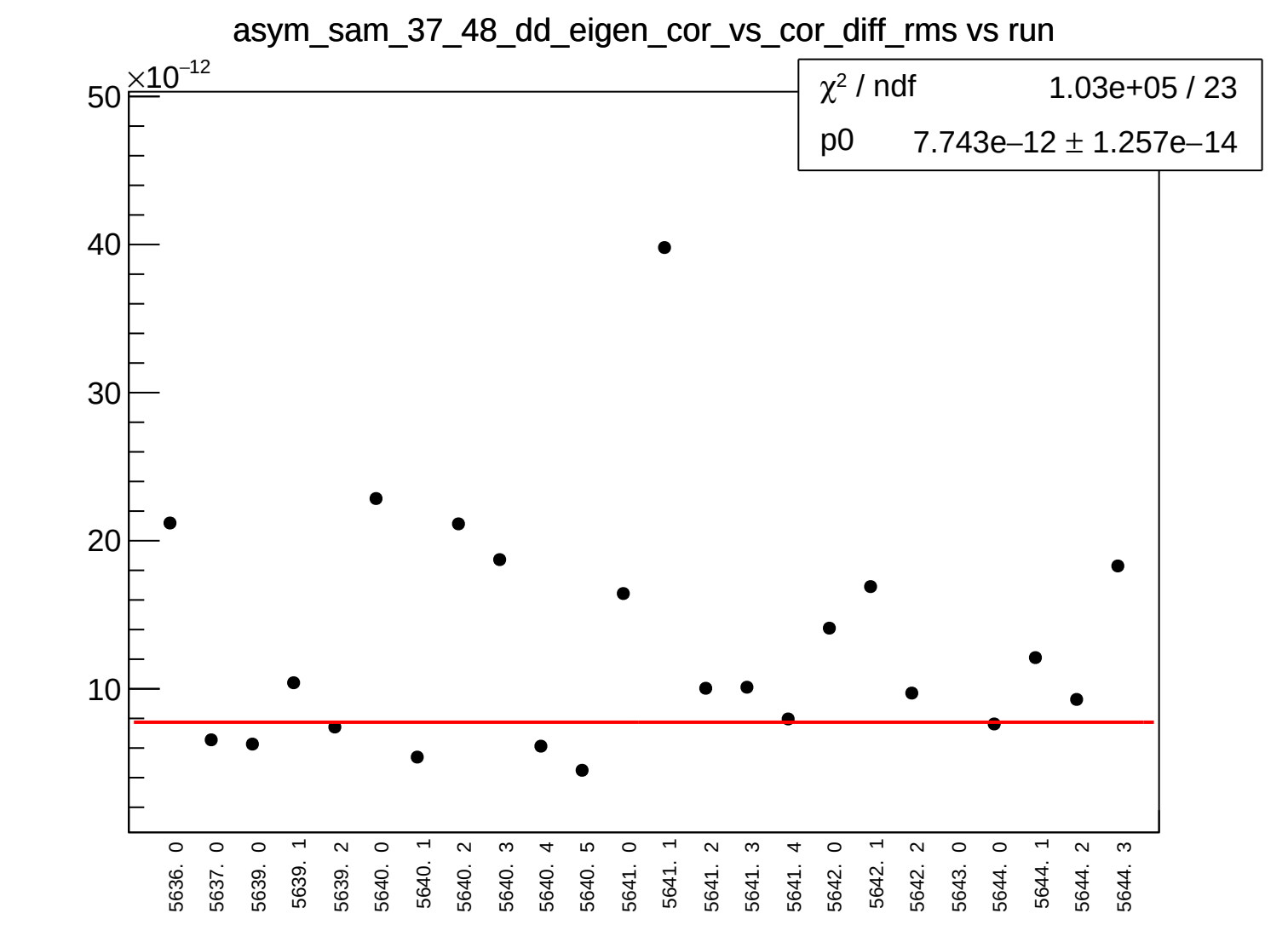

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 22.73 / 23
p0 −0.03266 ± 0.05884
1
0.5
0
−0.5
−1
−1.5
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 12.65
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.01782
Std Dev 0.973
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

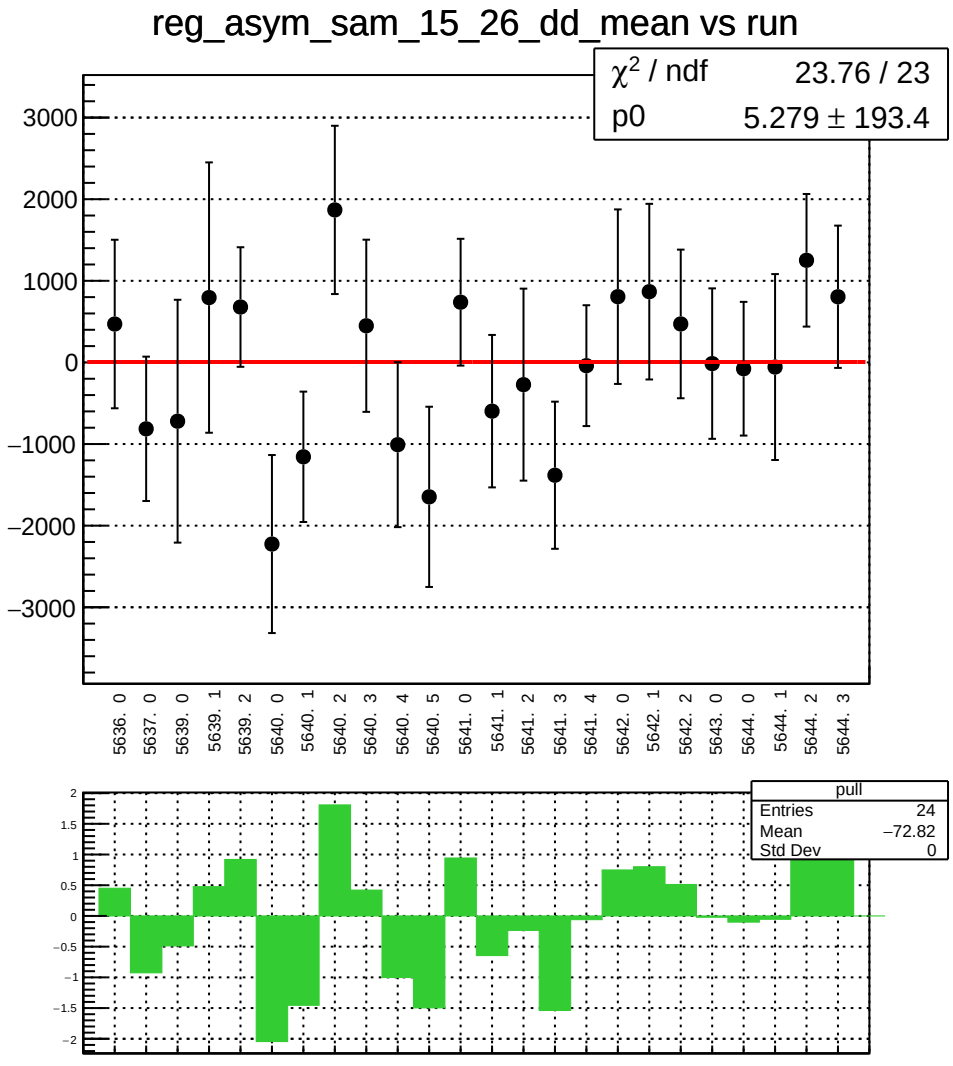

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.355e+04 / 23
p0 28.48 ± 0.0416
55
50
45
40
35
30
25
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

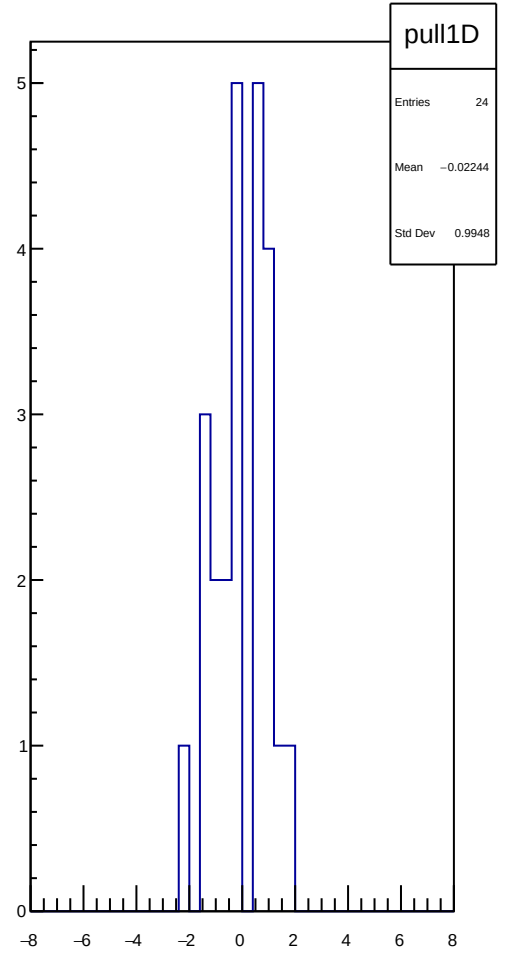

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 25.41 / 23
p0 8.118e−15 ± 1.778e−14
2
1.5
1
0.5
0
−0.5
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

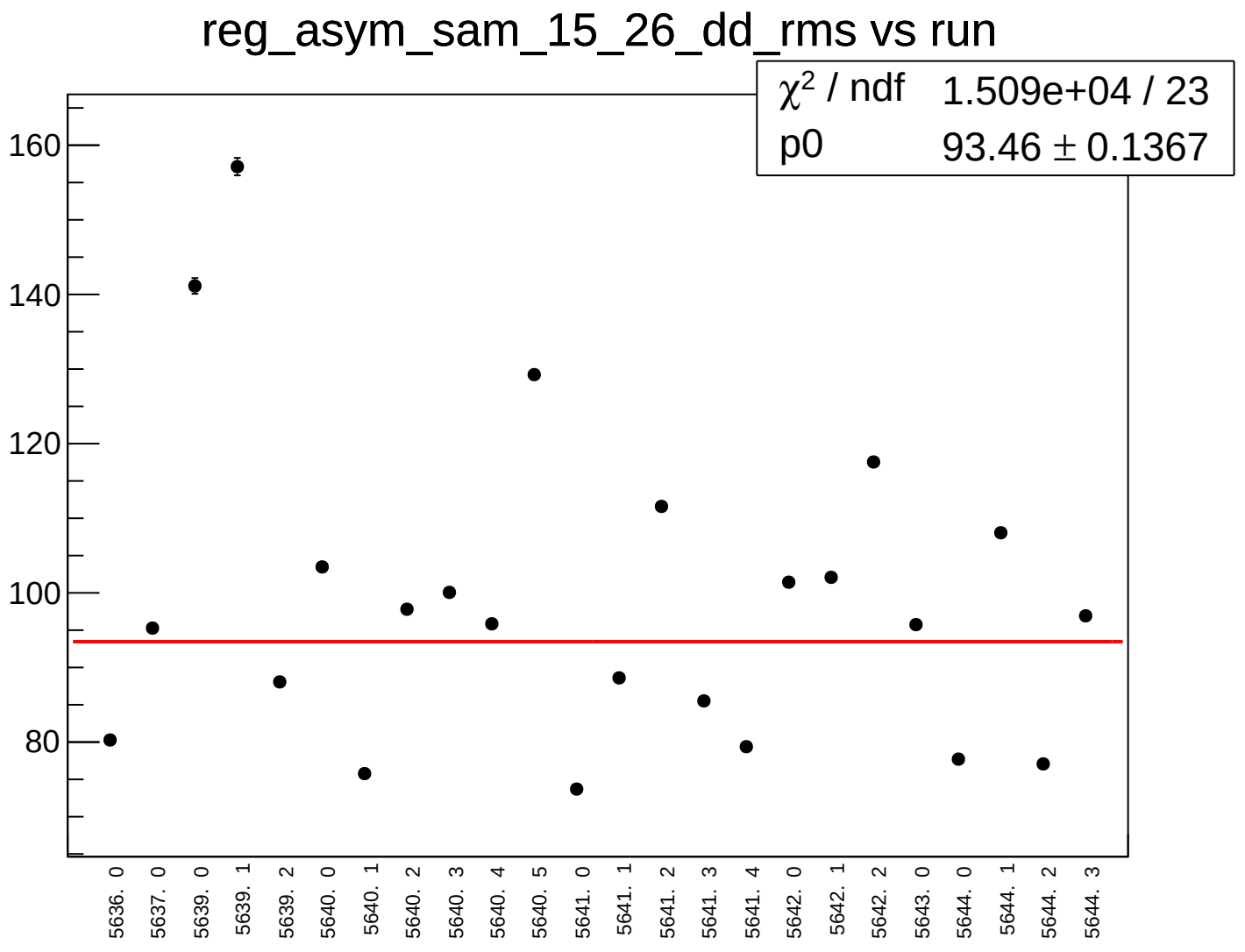

pull
Entries 24
Mean −1510
Std Dev 0
3
2
1
0
−1
−2

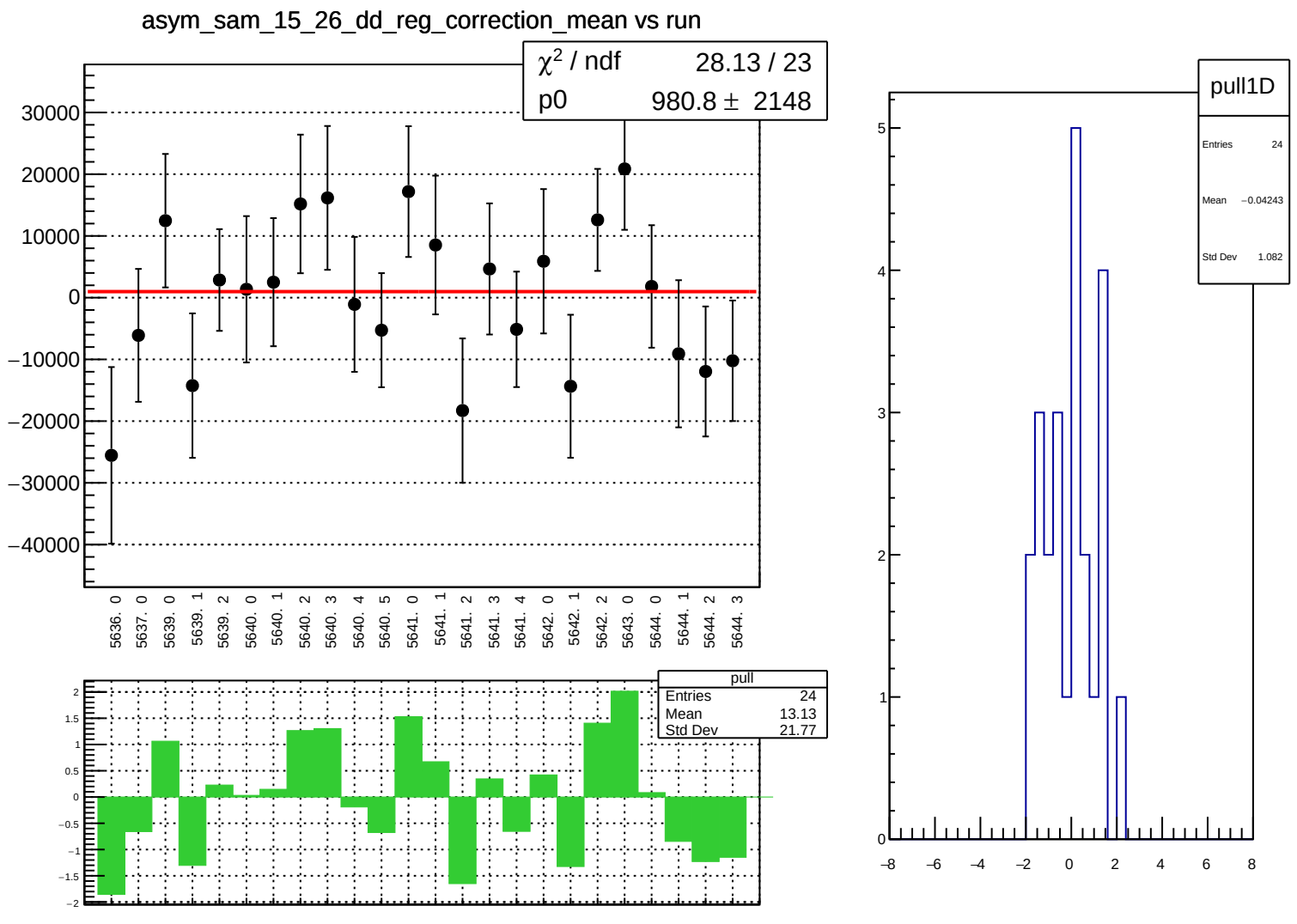

pull1D
Entries 24
Mean −0.001298
Std Dev 1.029
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

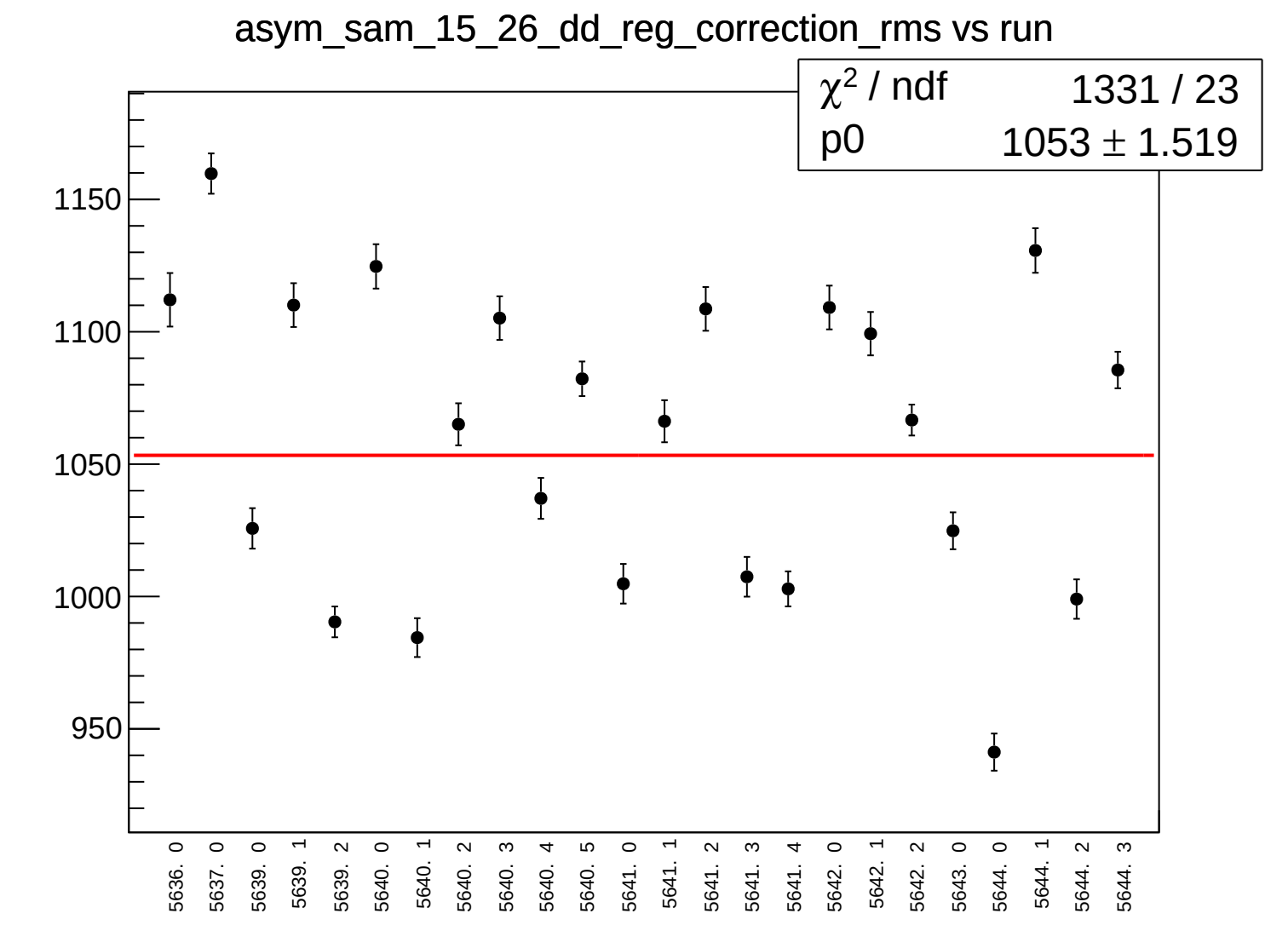

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.03e+05 / 23
p0 7.743e−12 ± 1.257e−14
50
40
30
20
10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

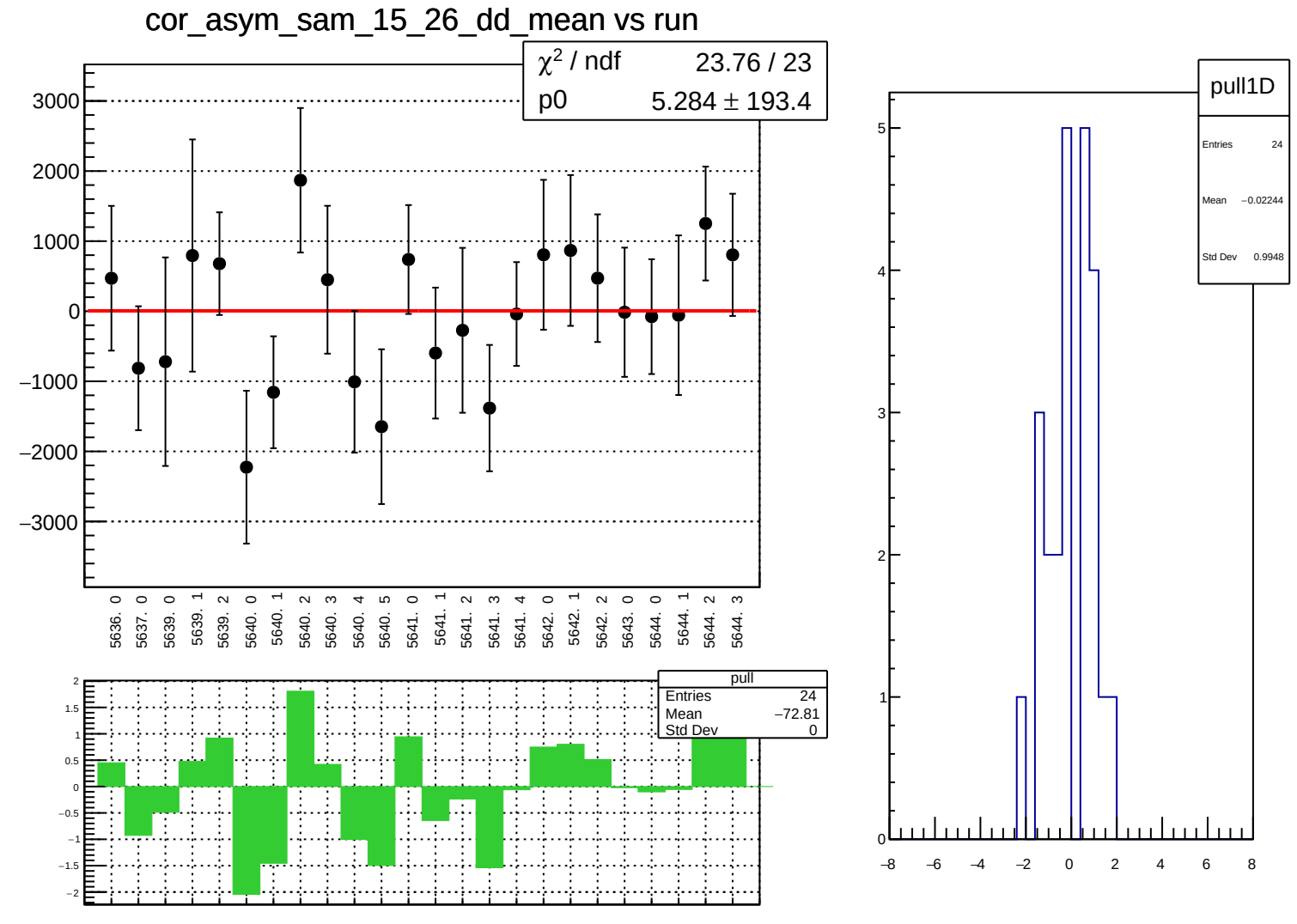

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 23.76 / 23
p0 5.279 ± 193.4
3000
2000
1000
0
−1000
−2000
−3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −72.82
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

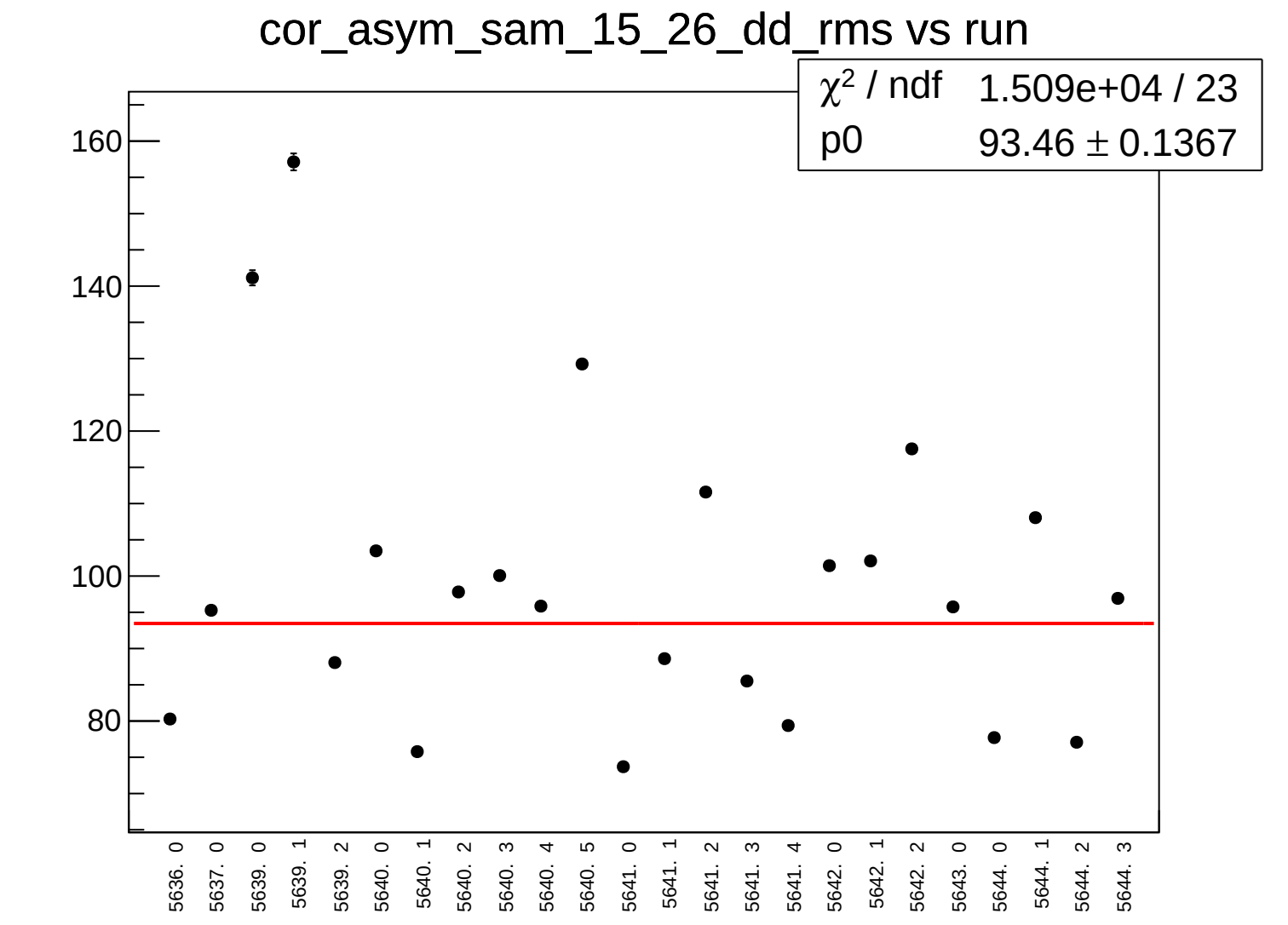

pull1D
Entries 24
Mean −0.02244
Std Dev 0.9948
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

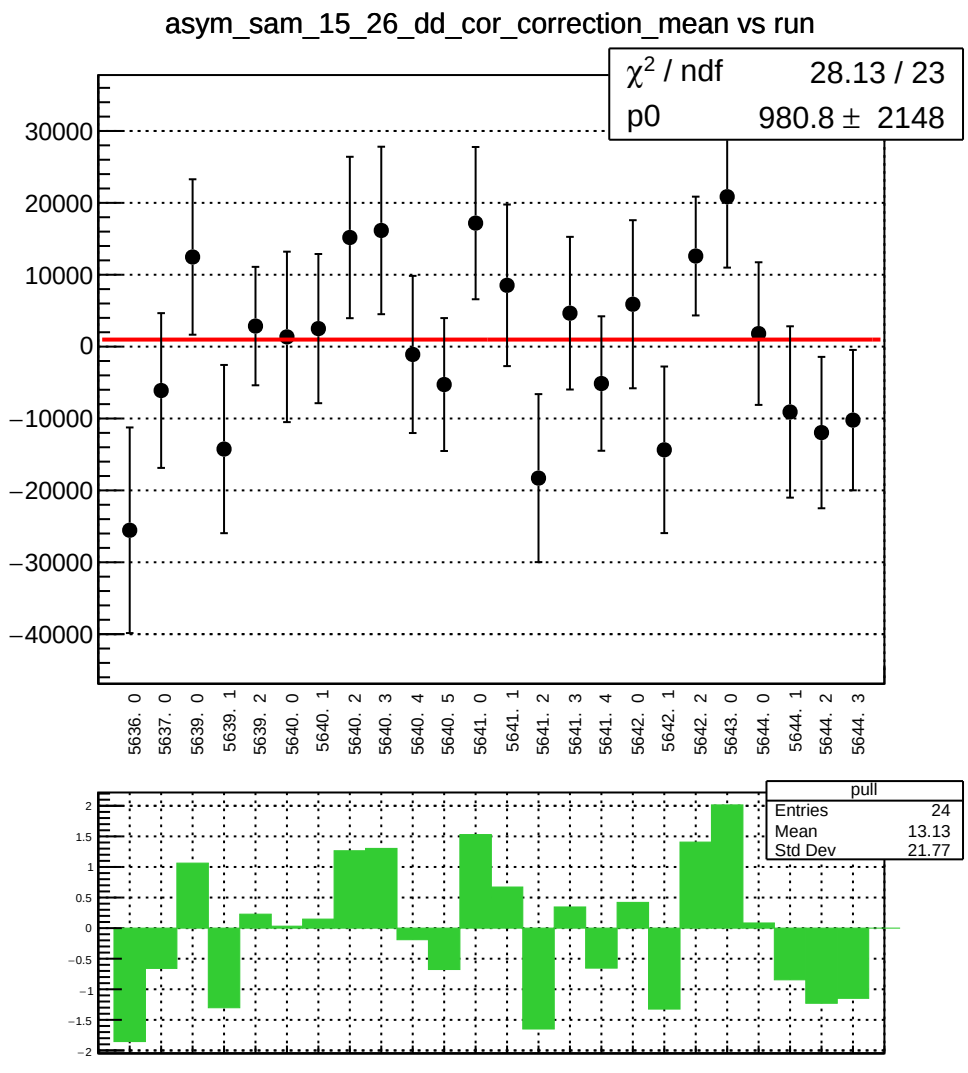

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.509e+04 / 23
p0 93.46 ± 0.1367
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

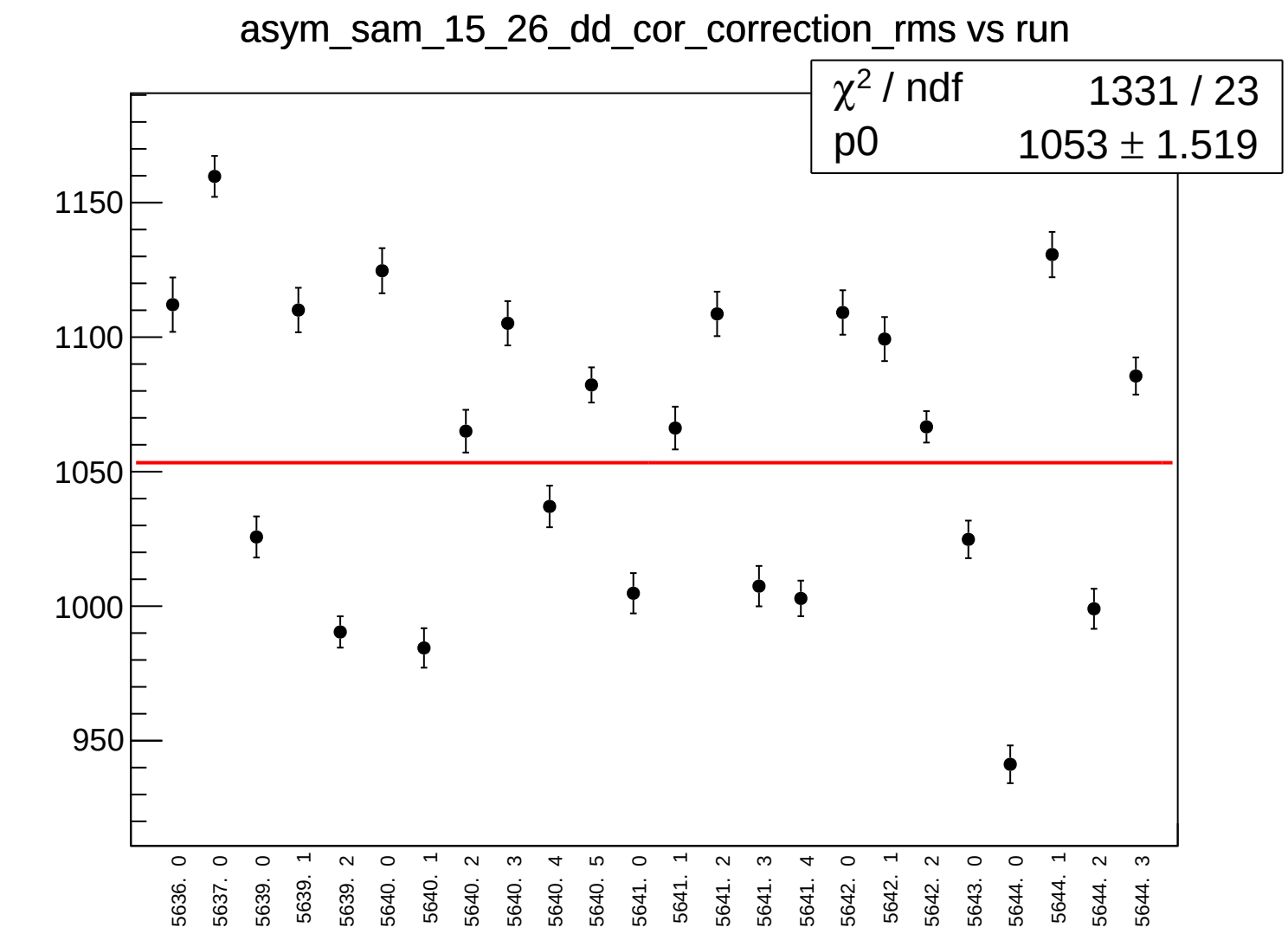

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 28.13 / 23
p0 980.8 ± 2148
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 13.13
Std Dev 21.77
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.04243
Std Dev 1.082
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

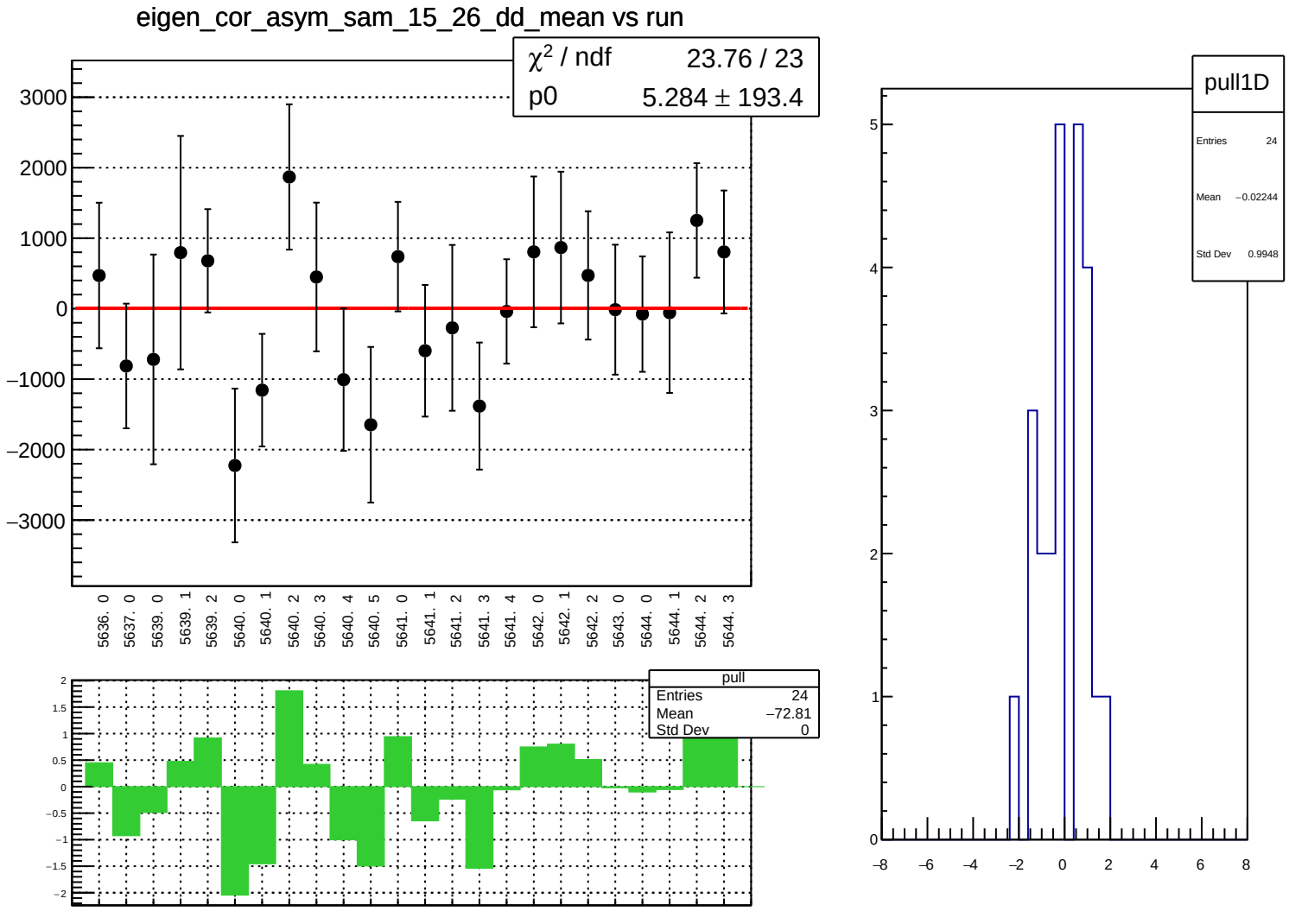

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 1331 / 23
p0 1053 ± 1.519
1150
1100
1050
1000
950
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

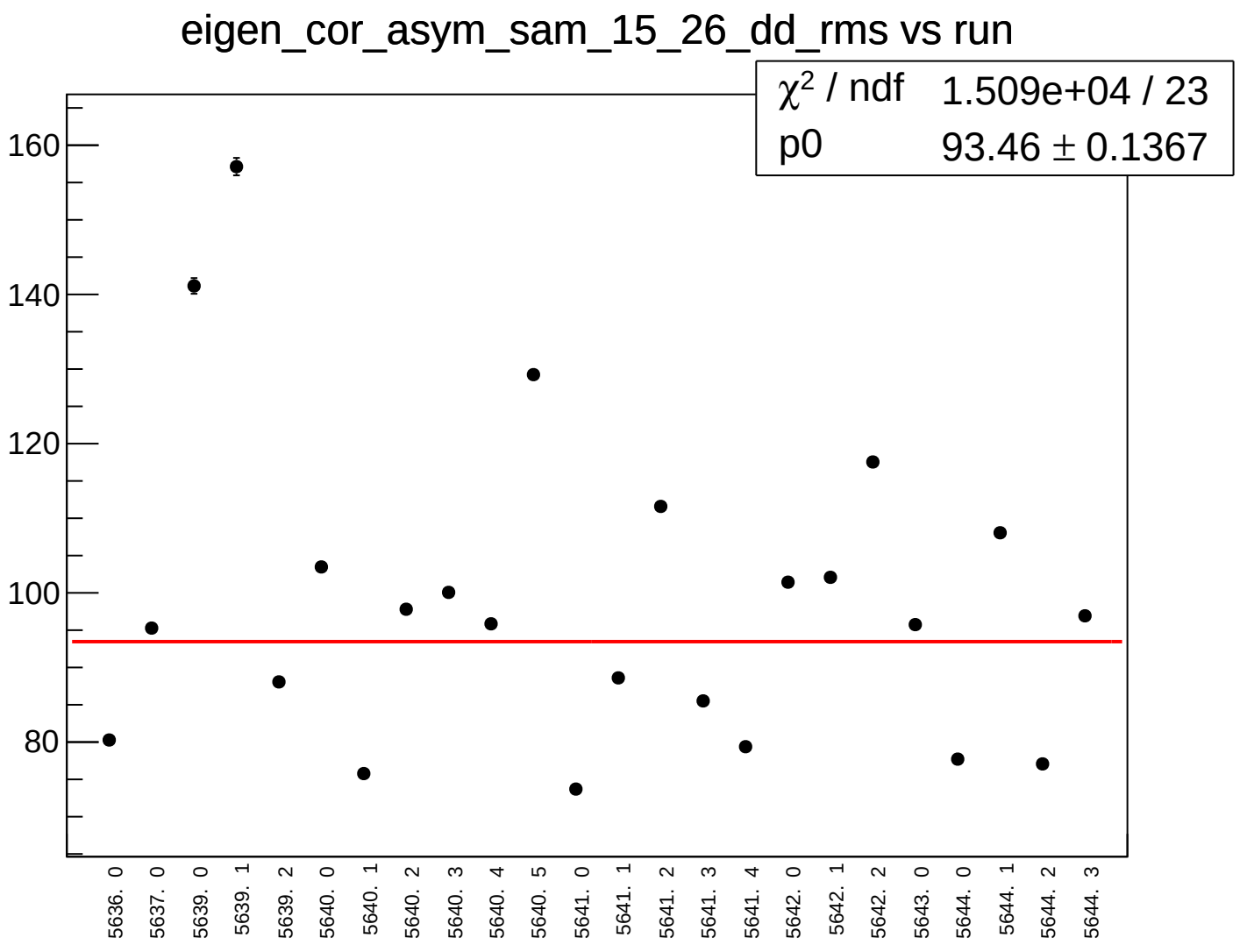

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 23.76 / 23
p0 5.284 ± 193.4
3000
2000
1000
0
−1000
−2000
−3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −72.81
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.02244
Std Dev 0.9948
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

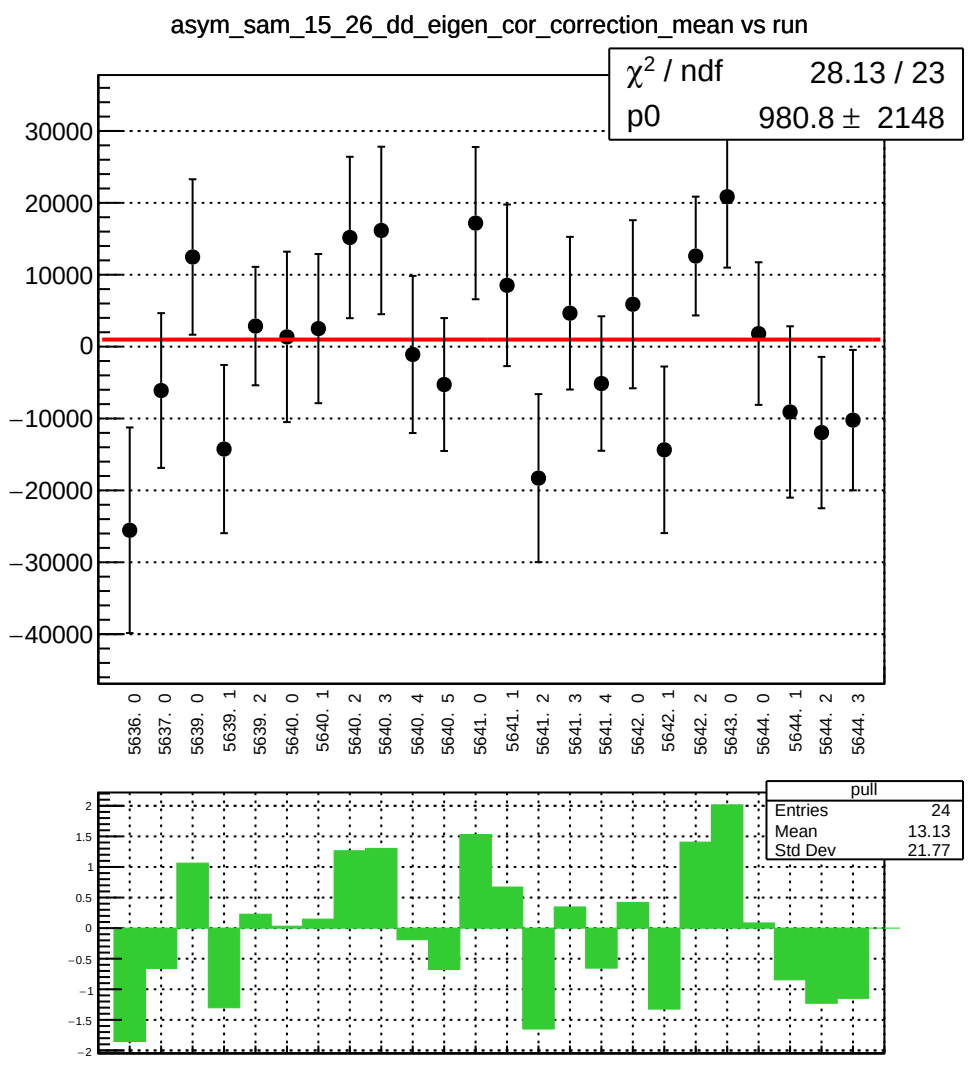

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.509e+04 / 23
p0 93.46 ± 0.1367
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

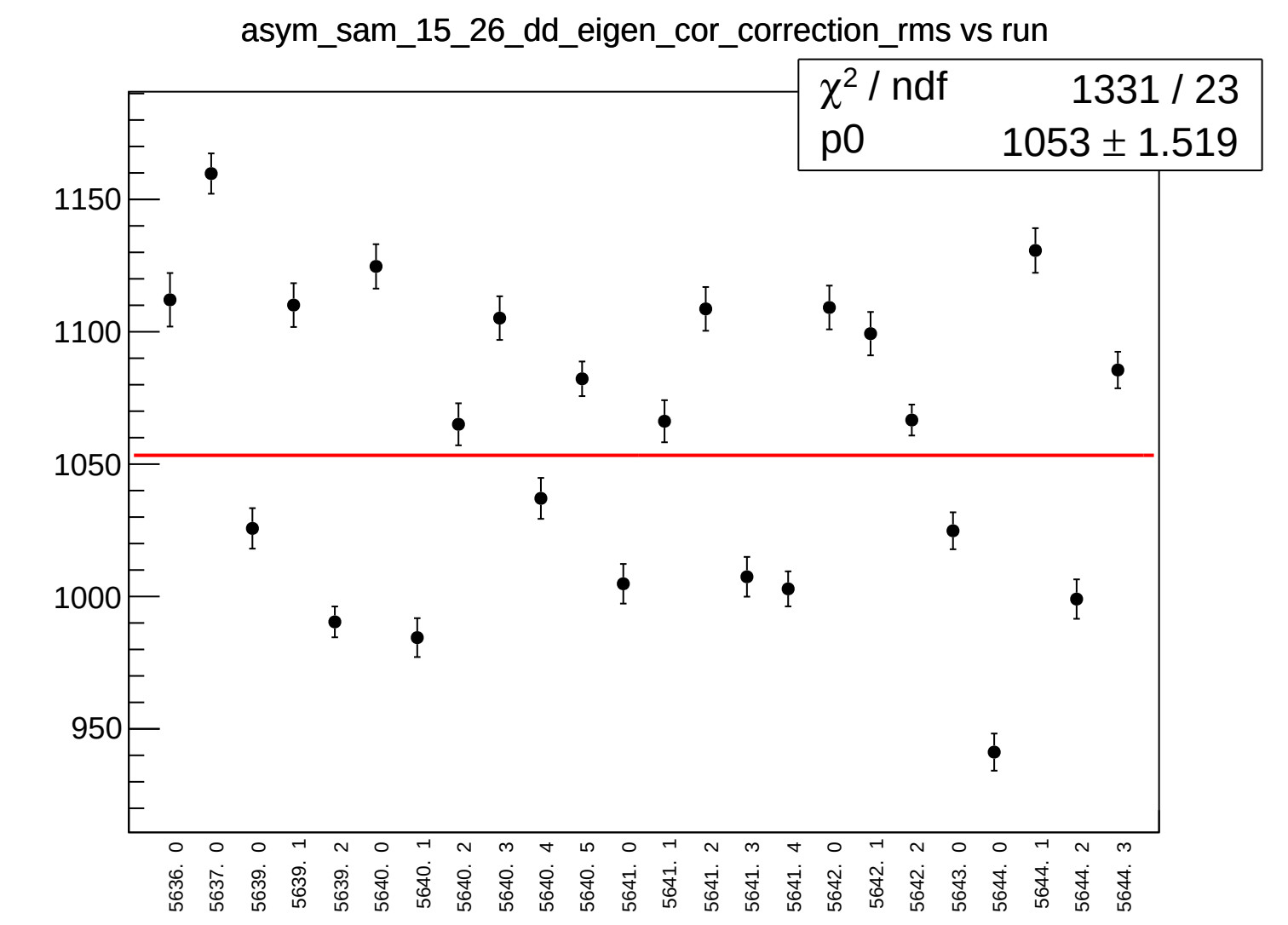

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 28.13 / 23
p0 980.8 ± 2148
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 13.13
Std Dev 21.77
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.04243
Std Dev 1.082
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 1331 / 23
p0 1053 ± 1.519
1150
1100
1050
1000
950
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 23.76 / 23
p0 5.284 ± 193.4
3000
2000
1000
0
−1000
−2000
−3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −72.81
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.02244
Std Dev 0.9948
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.509e+04 / 23
p0 93.46 ± 0.1367
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 28.13 / 23
p0 980.8 ± 2148
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 13.13
Std Dev 21.77
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.04243
Std Dev 1.082
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1331 / 23
p0 1053 ± 1.519
1150
1100
1050
1000
950
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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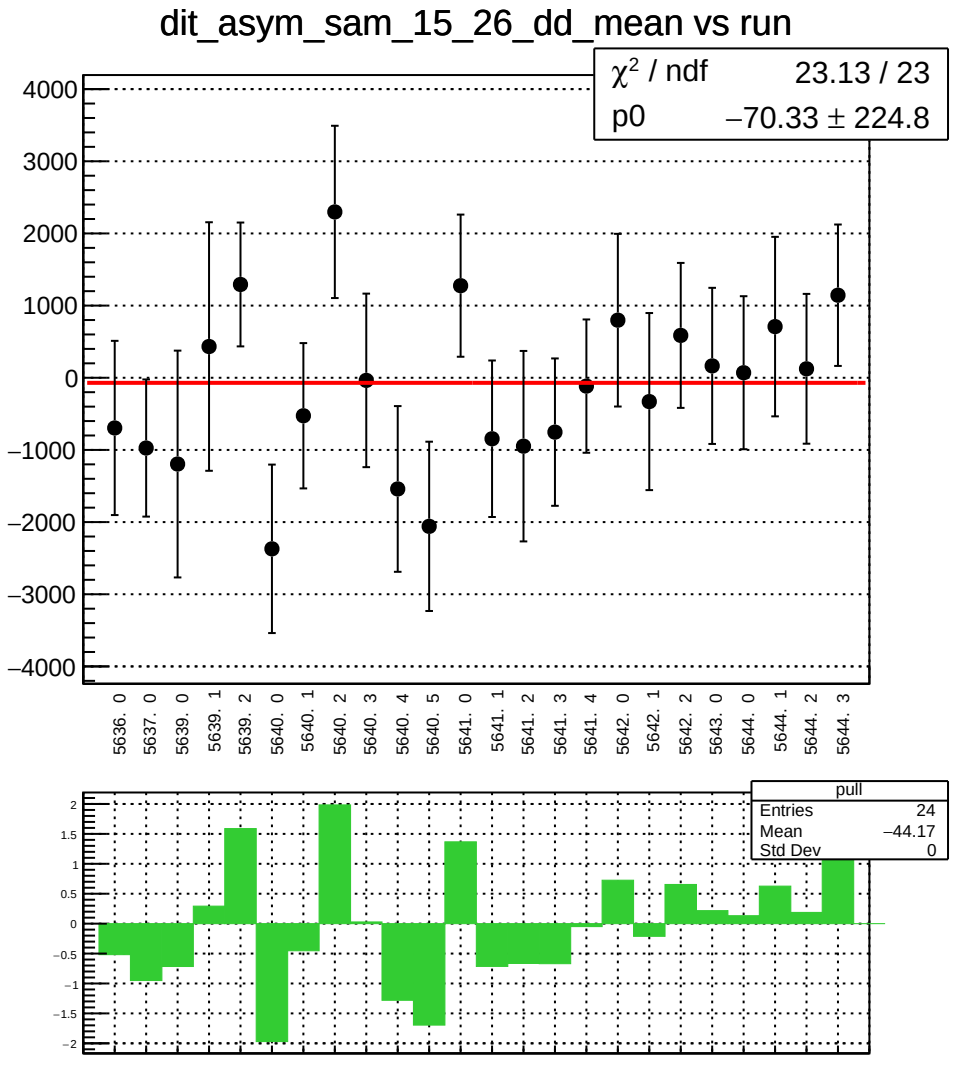
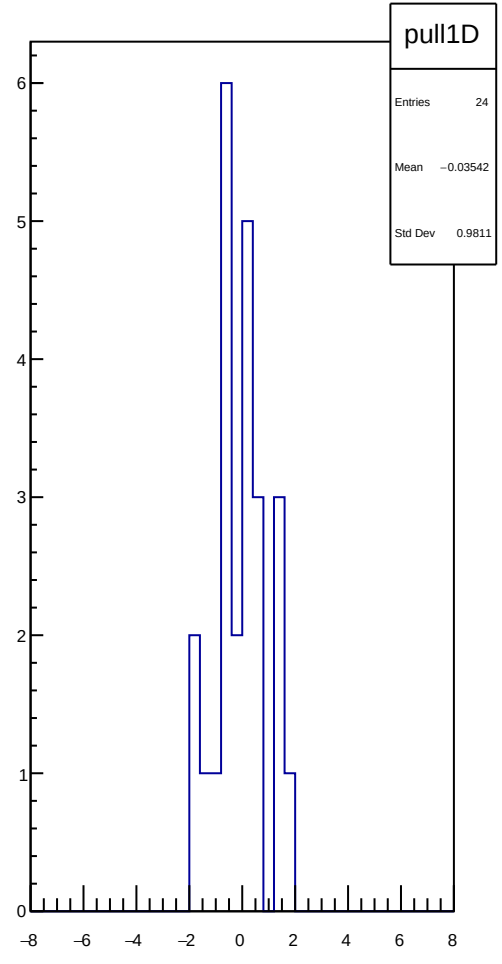
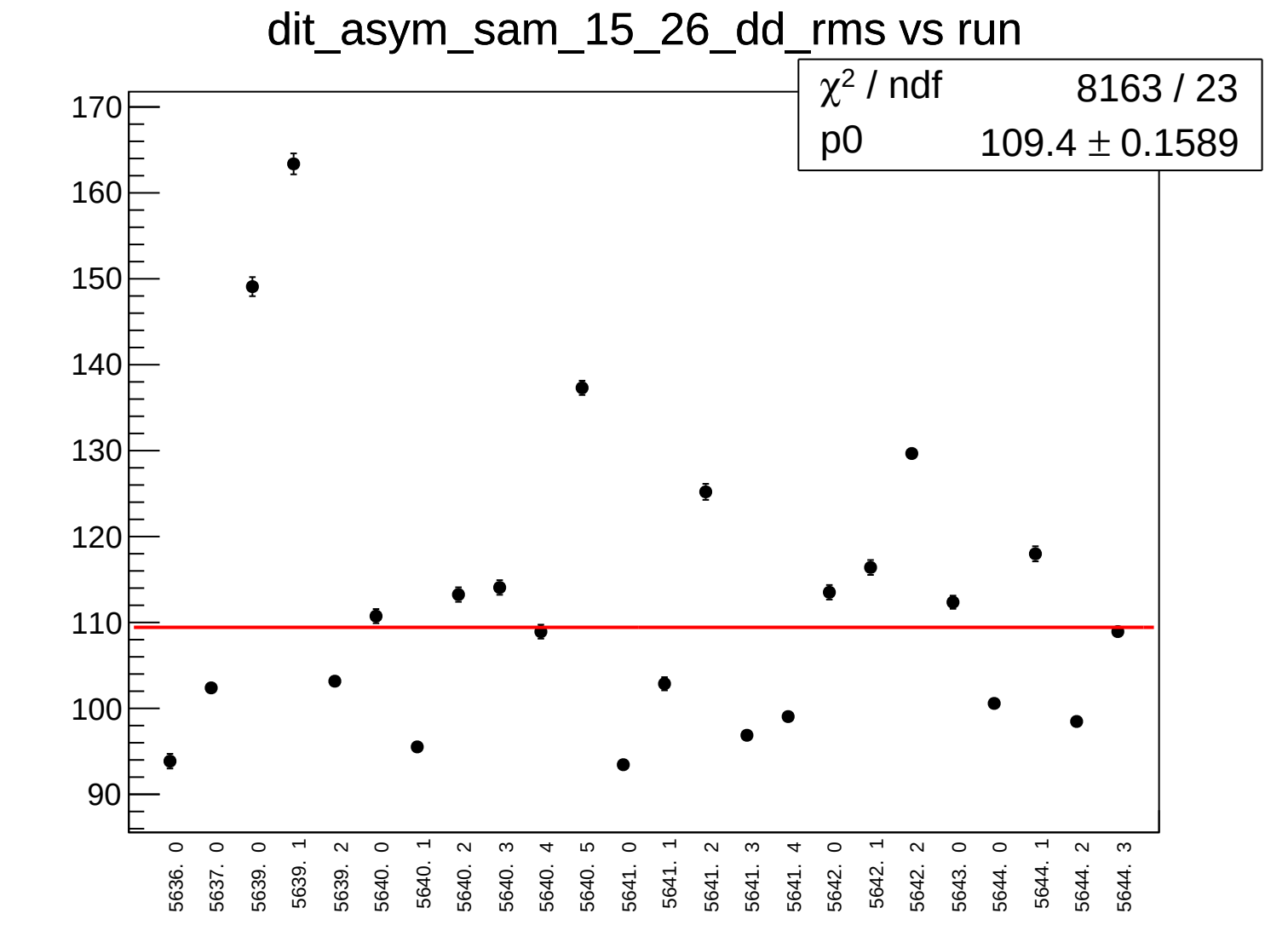
5644. 2
5644. 3


dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 23.13 / 23
p0 −70.33 ± 224.8
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −44.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.03542
Std Dev 0.9811
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 8163 / 23
p0 109.4 ± 0.1589
170
160
150
140
130
120
110
100
90
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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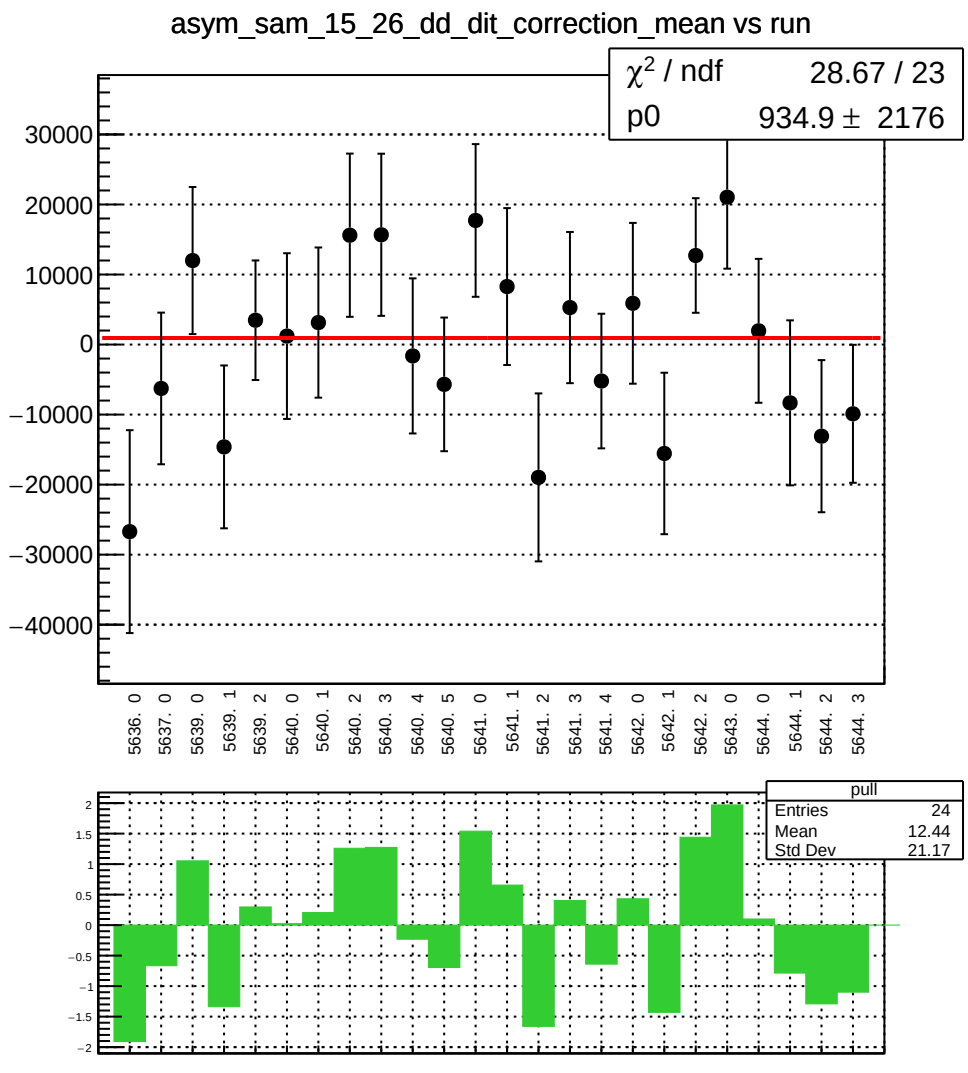
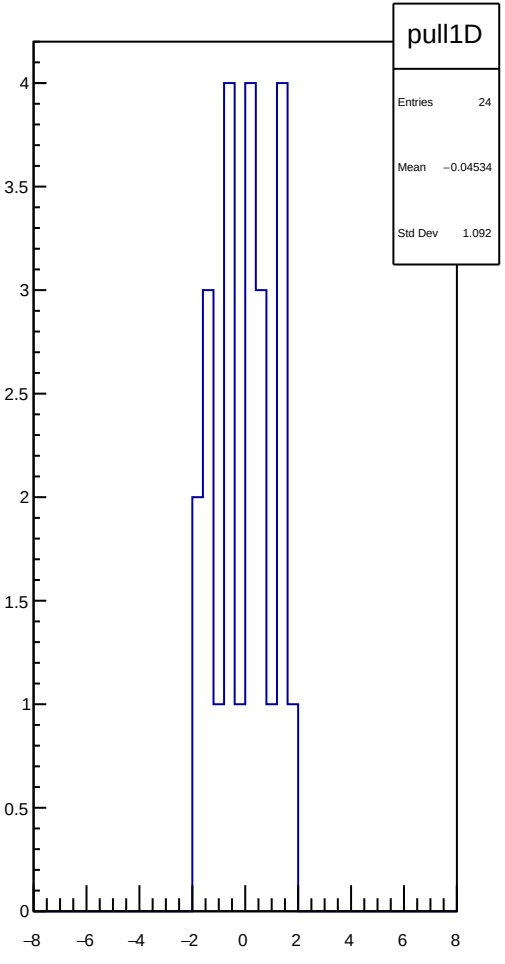
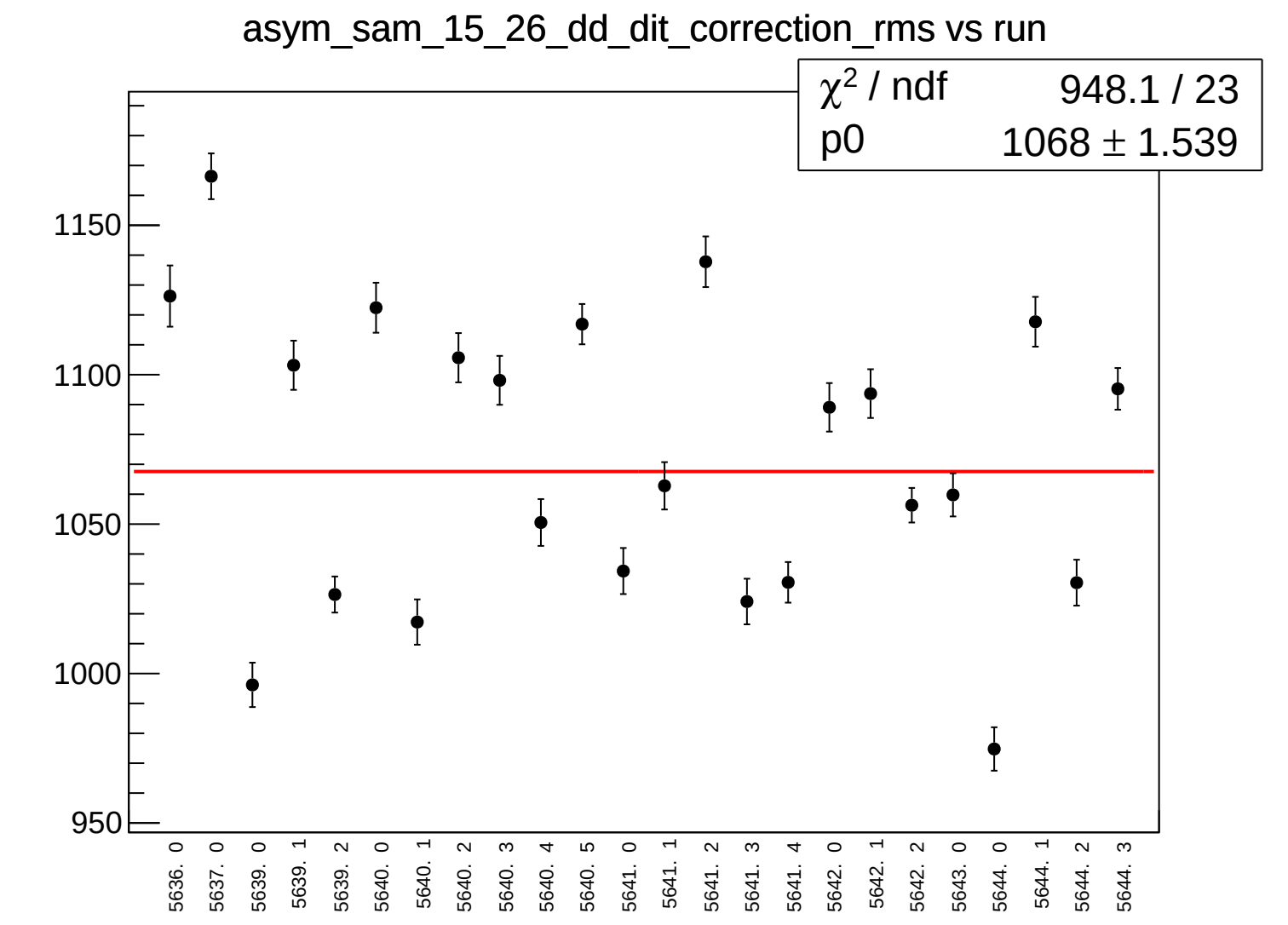
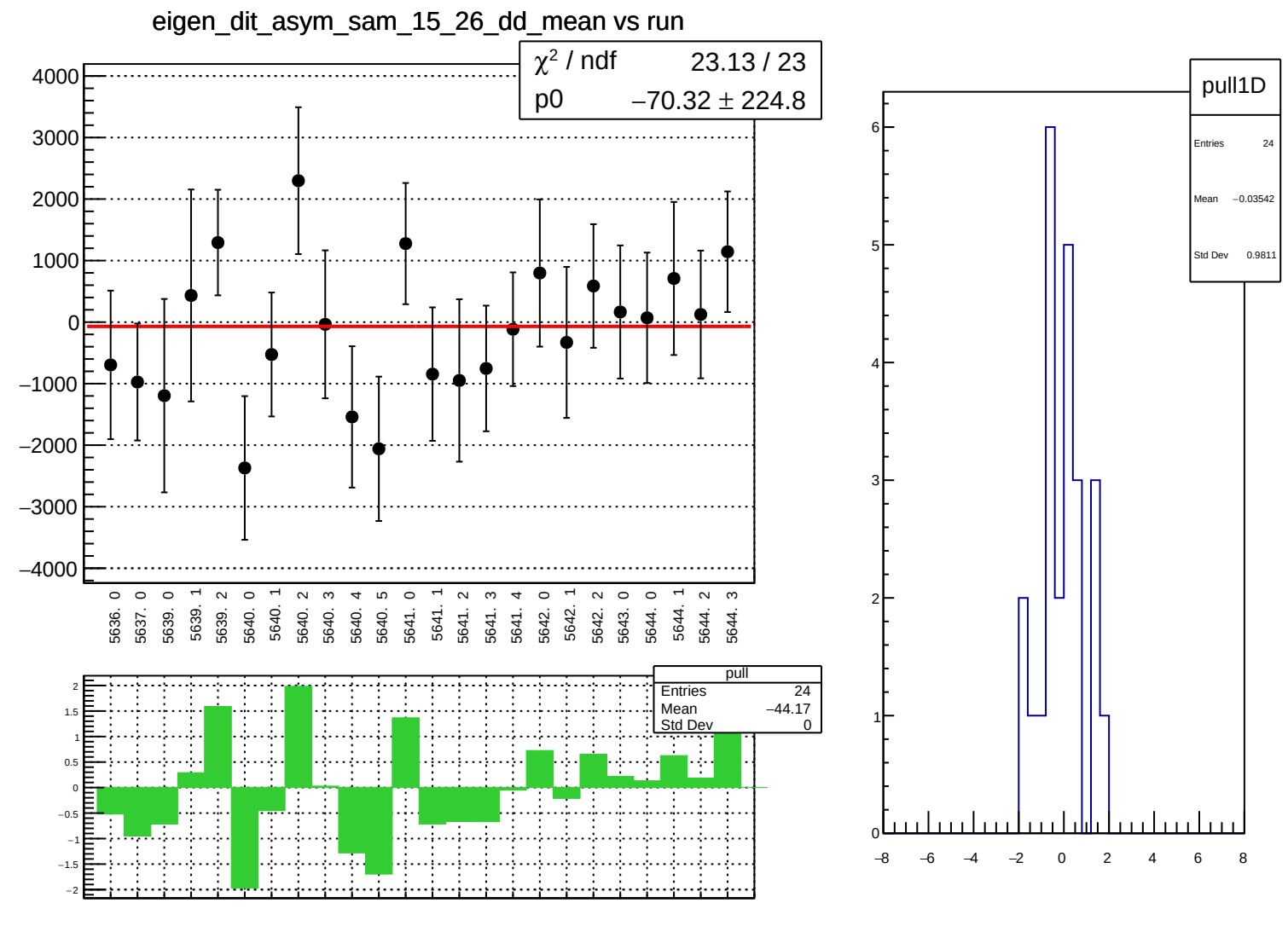
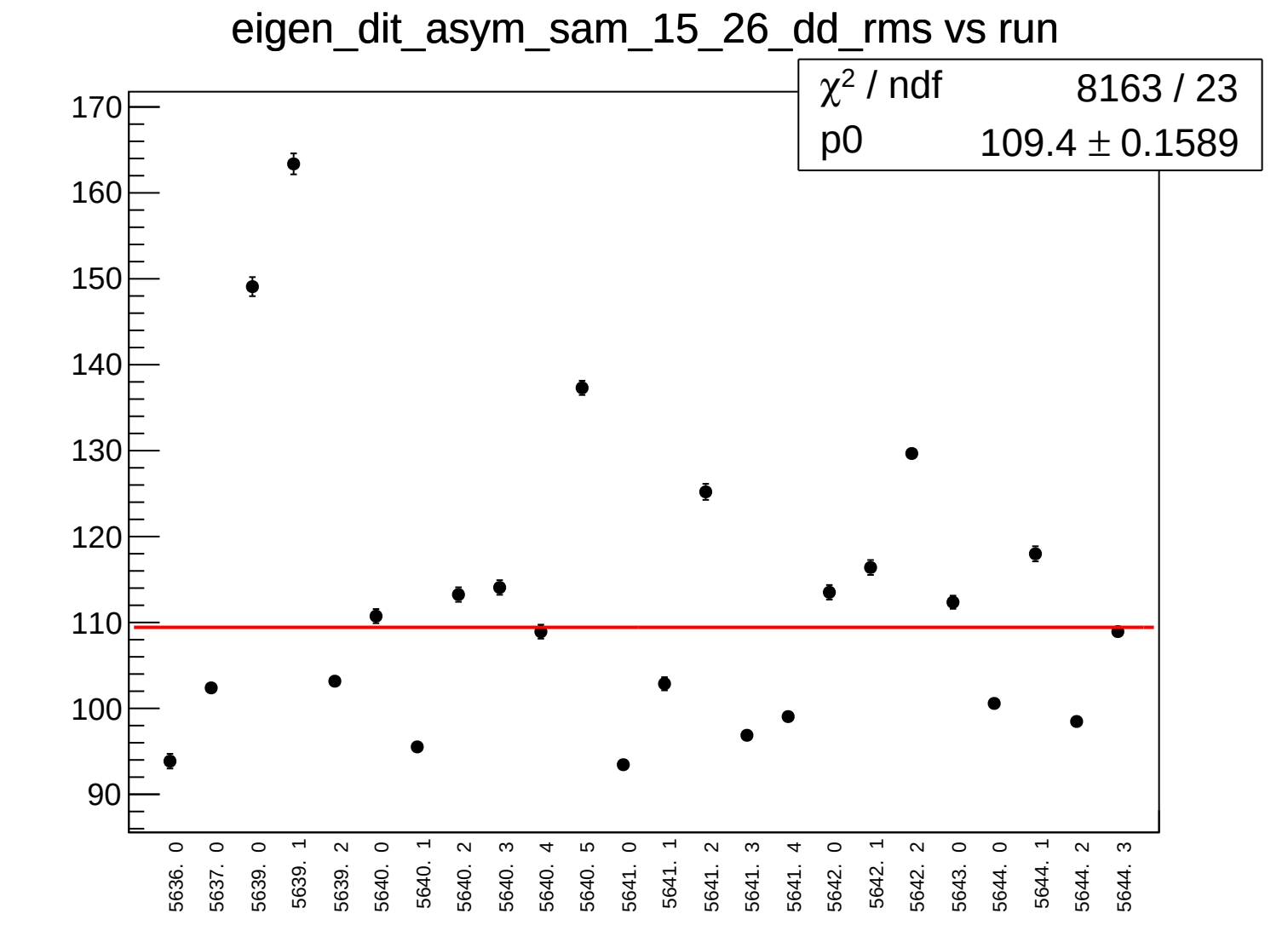
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

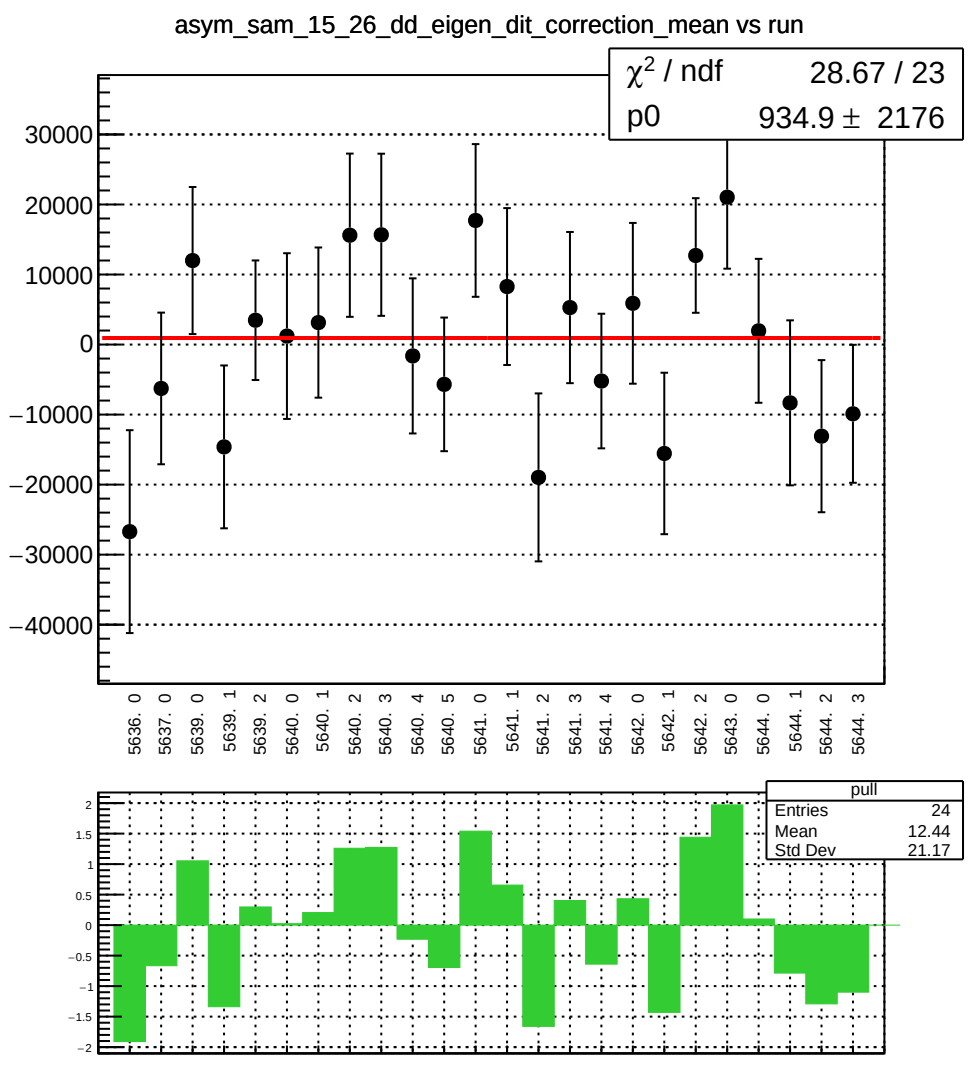

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 28.67 / 23
p0 934.9 ± 2176
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 12.44
Std Dev 21.17
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

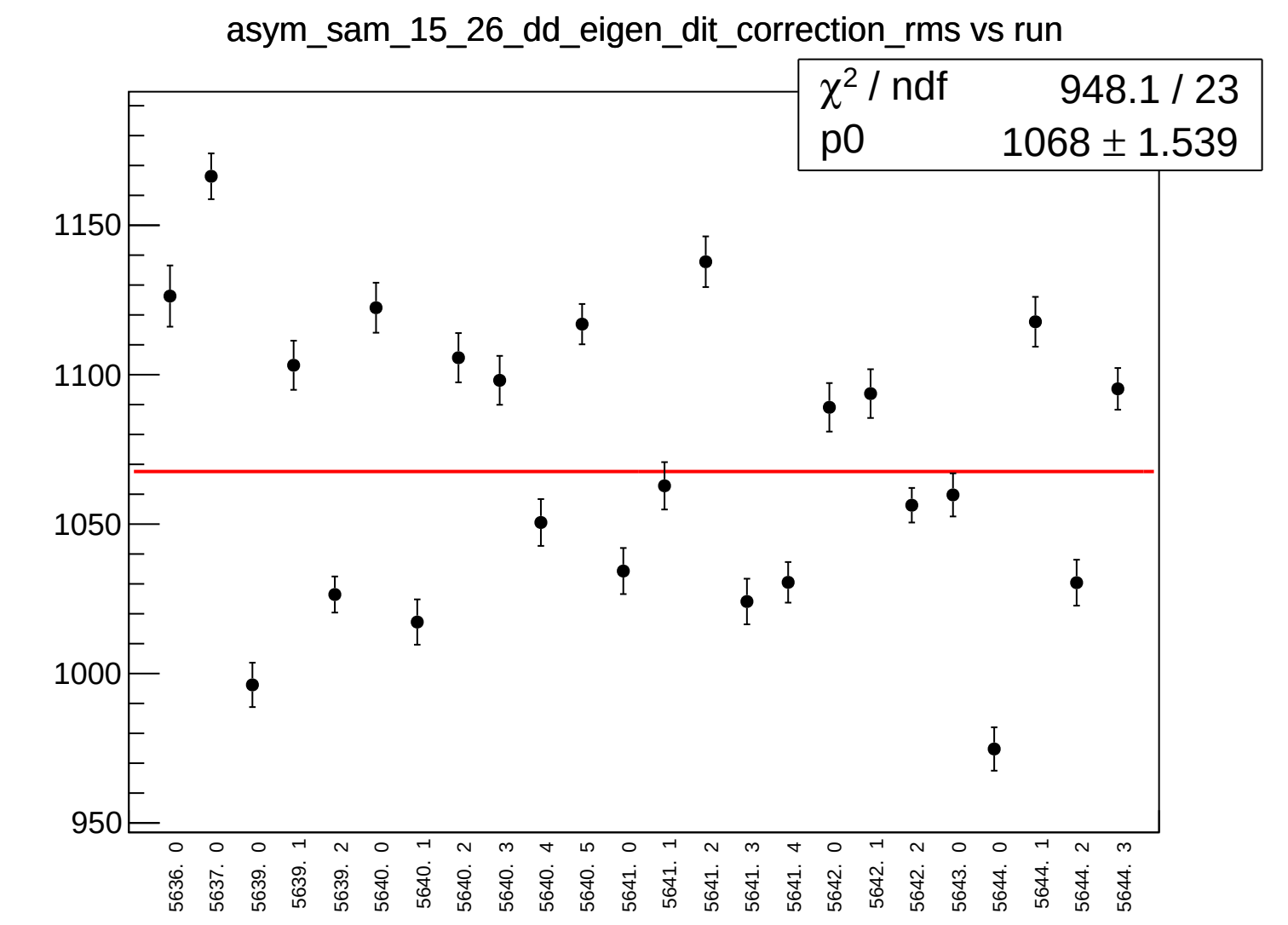

pull1D
Entries 24
Mean −0.04534
Std Dev 1.092
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

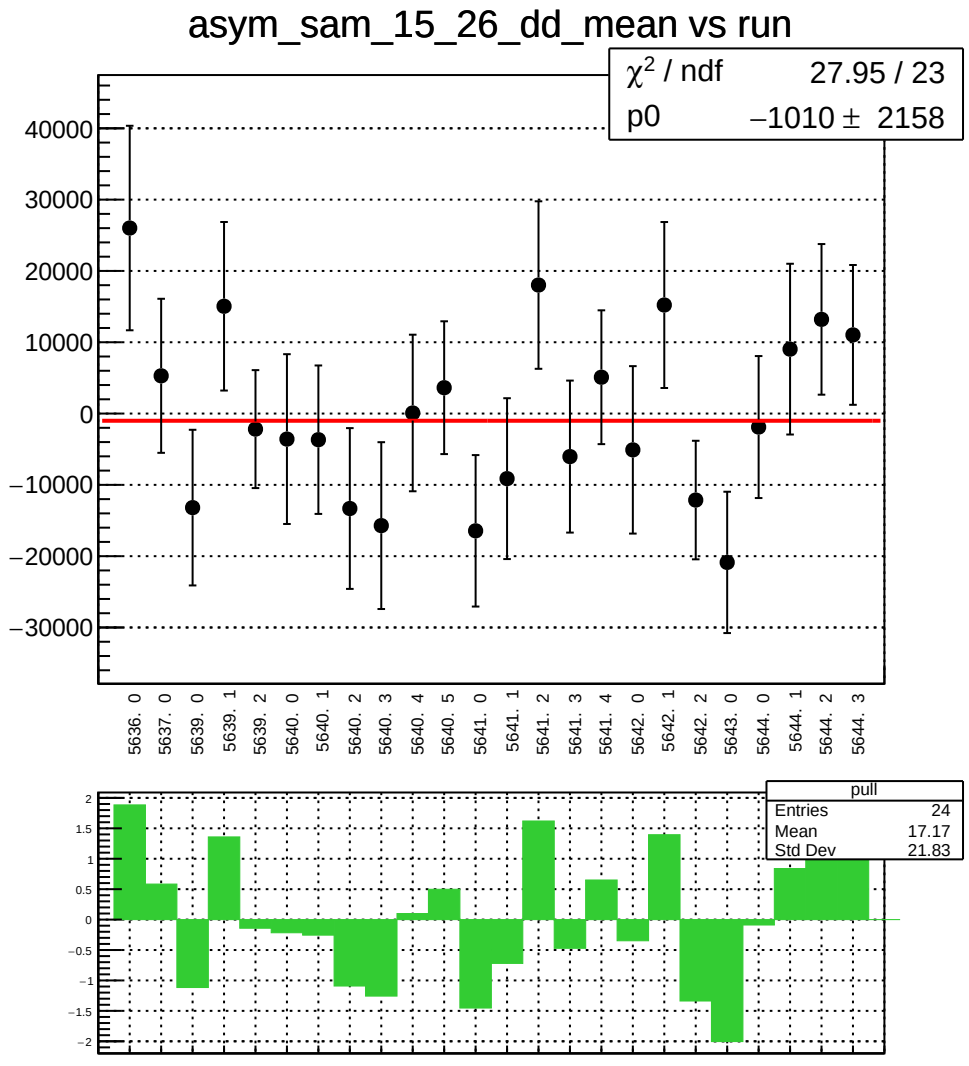

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 948.1 / 23
p0 1068 ± 1.539
1150
1100
1050
1000
950
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

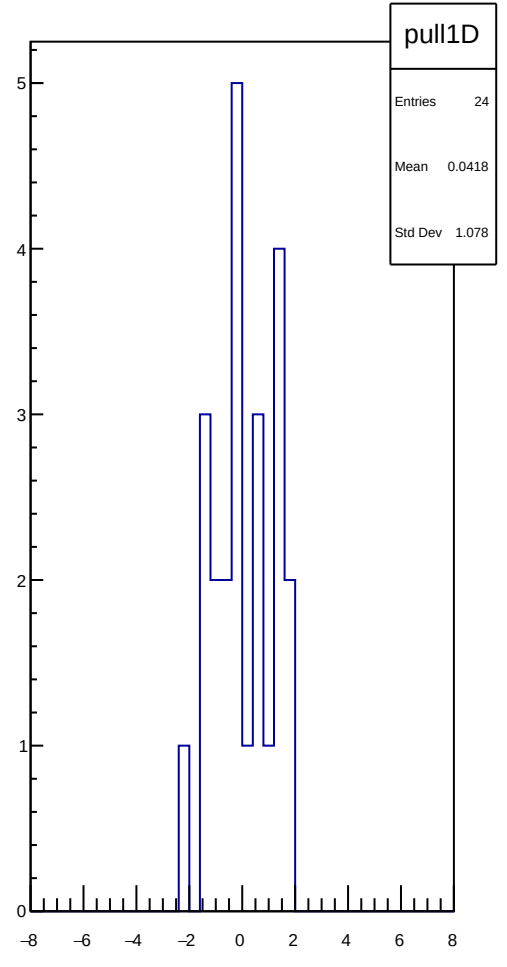

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 23.13 / 23
p0 −70.32 ± 224.8
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −44.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.03542
Std Dev 0.9811
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

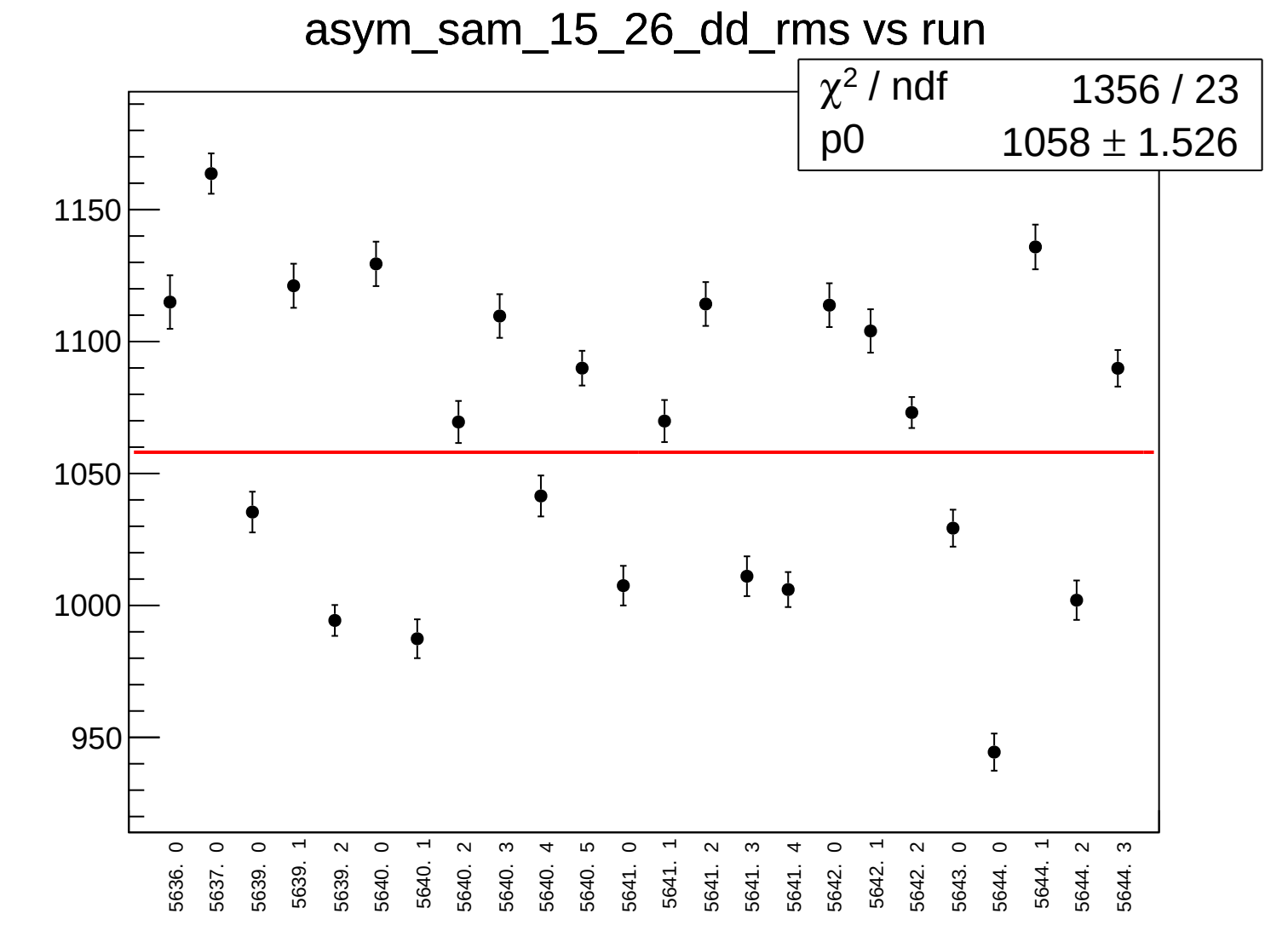

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 8163 / 23
p0 109.4 ± 0.1589
170
160
150
140
130
120
110
100
90
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

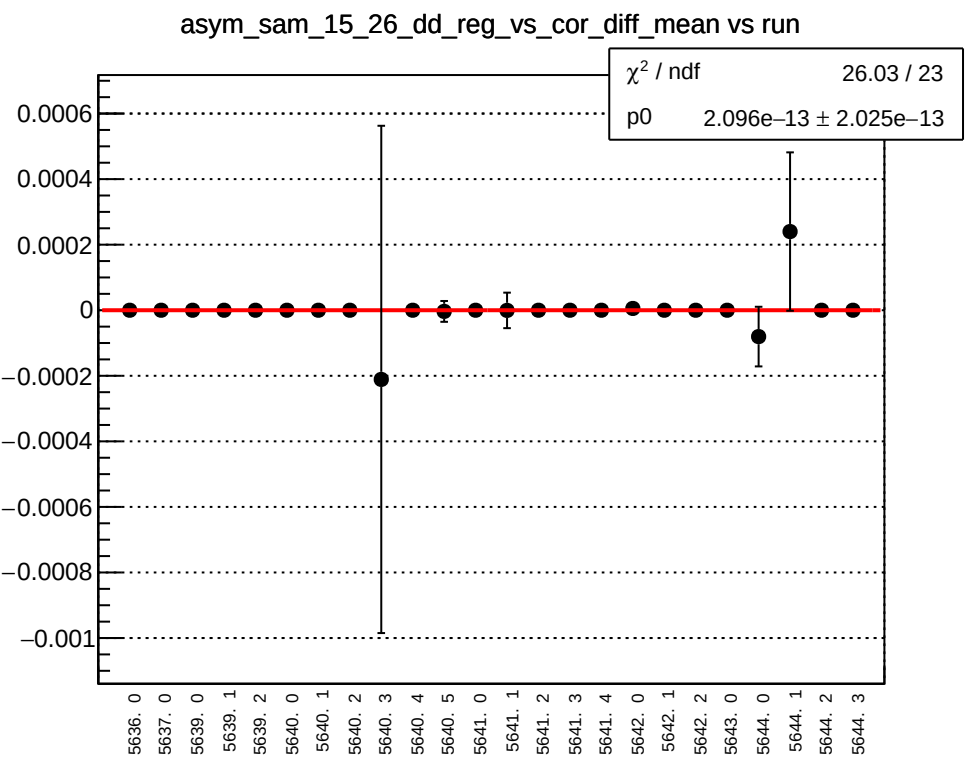

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 28.67 / 23
p0 934.9 ± 2176
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 12.44
Std Dev 21.17
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.04534
Std Dev 1.092
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

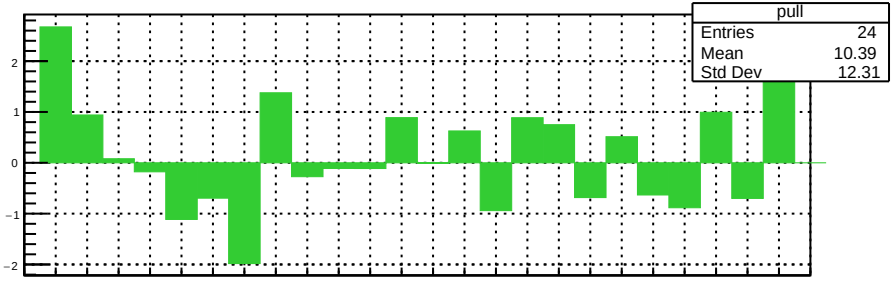

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 948.1 / 23
p0 1068 ± 1.539
1150
1100
1050
1000
950
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

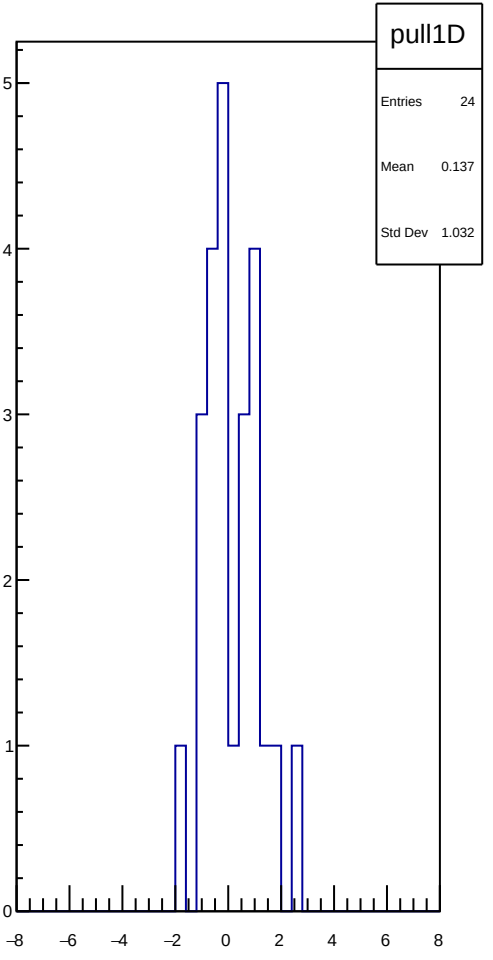

asym_sam_15_26_dd_mean vs run
χ² / ndf 27.95 / 23
p0 −1010 ± 2158
40000
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 17.17
Std Dev 21.83
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

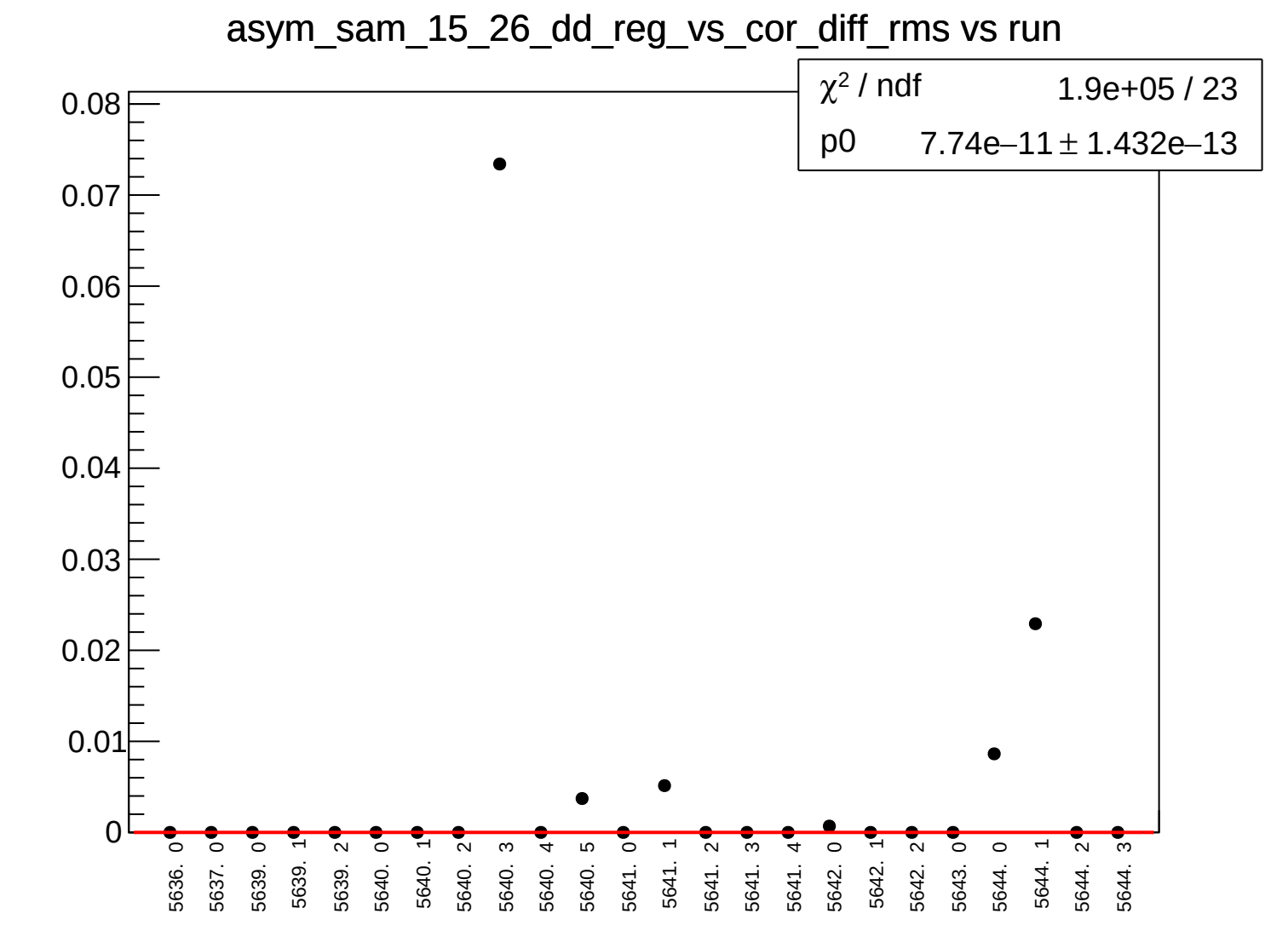

pull1D
Entries 24
Mean 0.0418
Std Dev 1.078
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

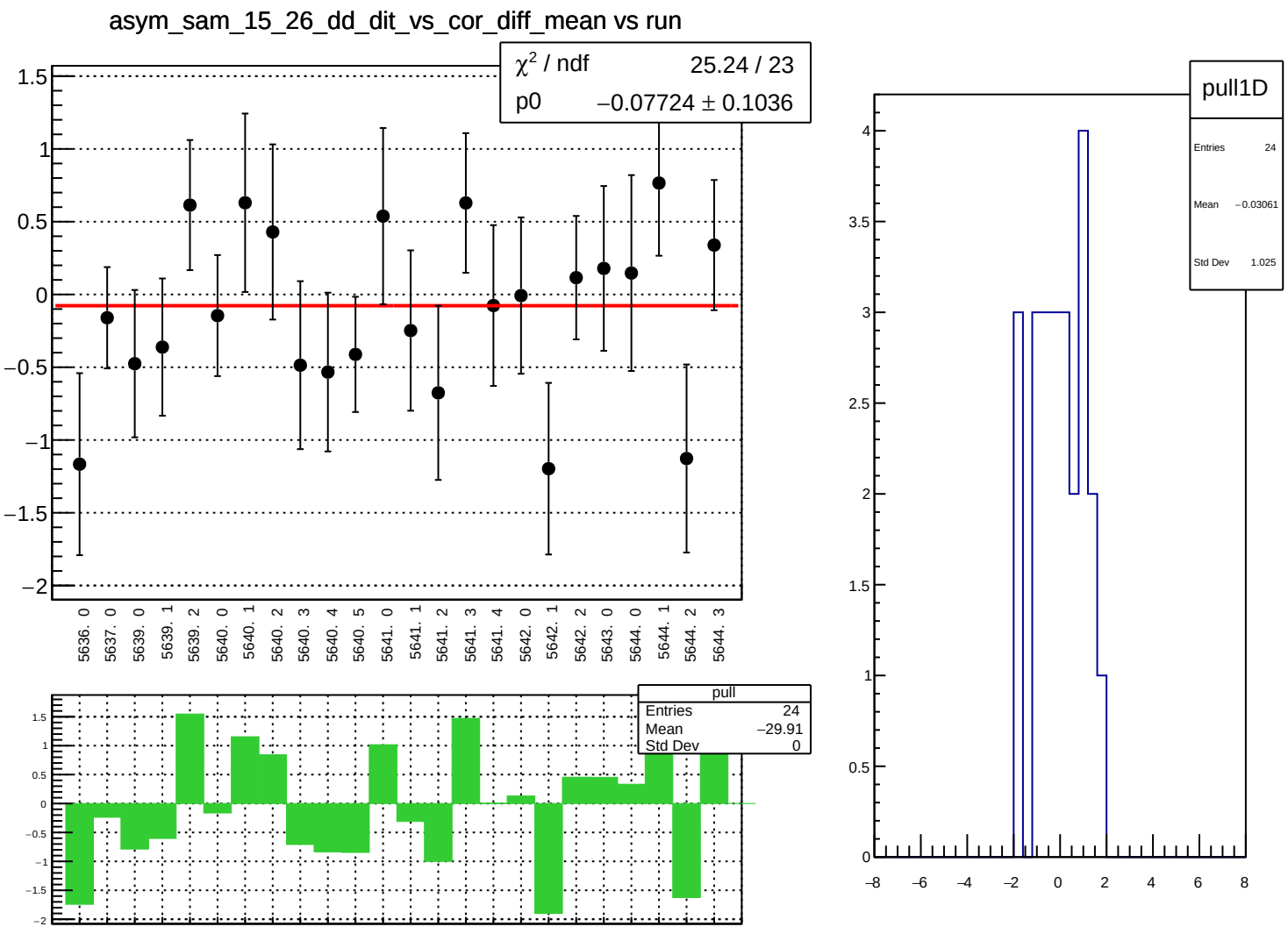

asym_sam_15_26_dd_rms vs run
χ² / ndf 1356 / 23
p0 1058 ± 1.526
1150
1100
1050
1000
950
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

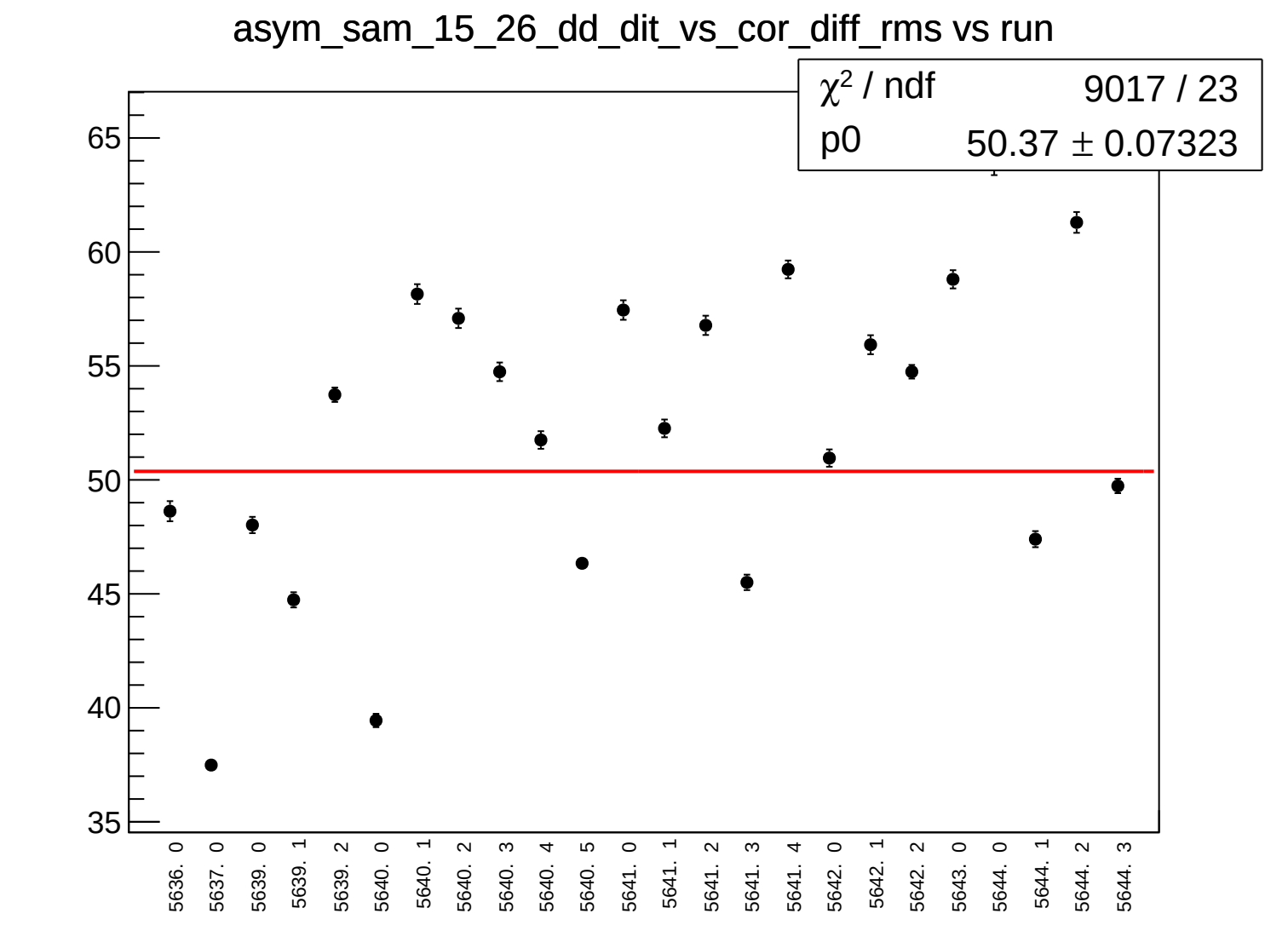

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 26.03 / 23
p0 2.096e−13 ± 2.025e−13
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

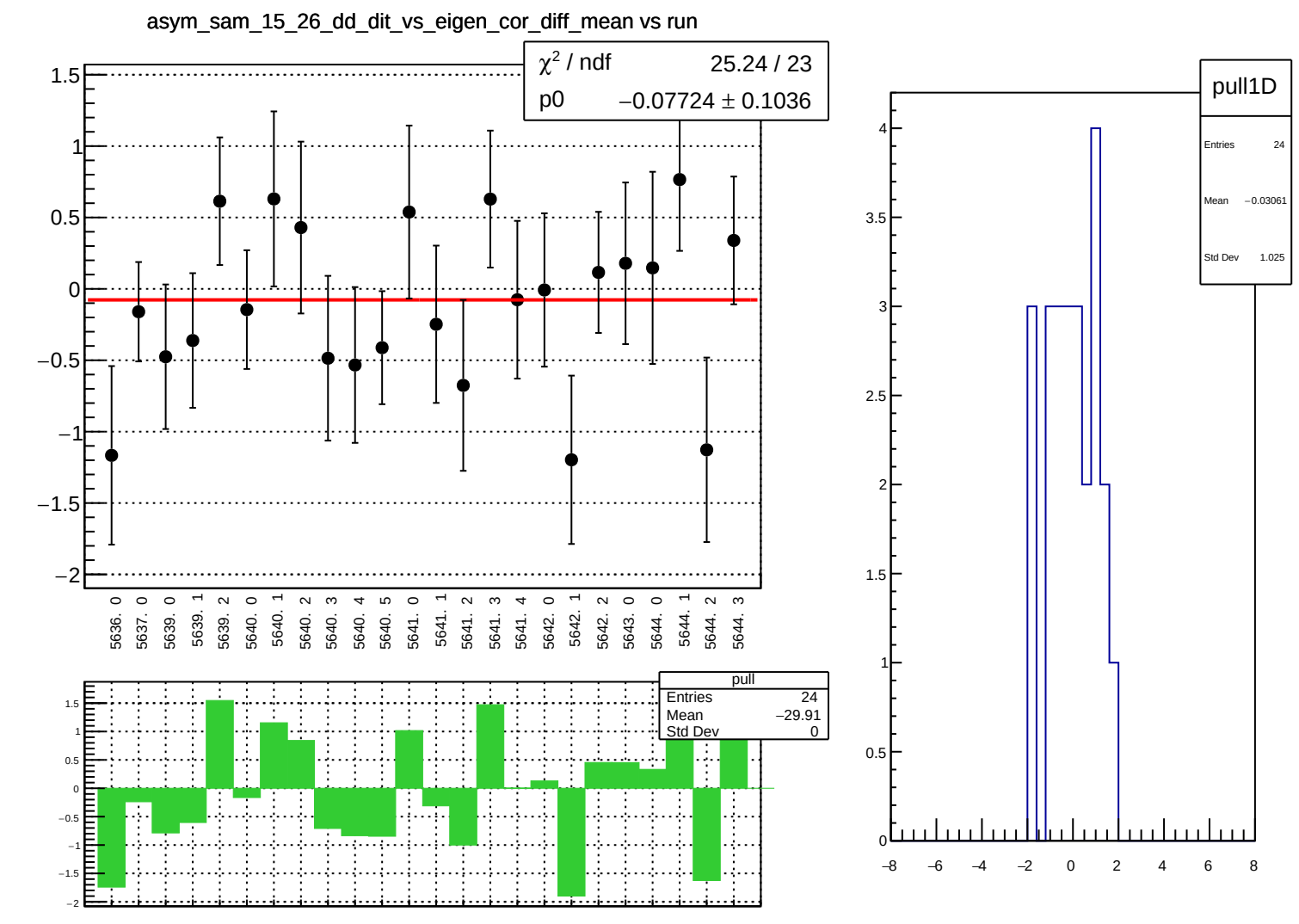

pull
Entries 24
Mean 10.39
Std Dev 12.31
2
1
0
−1
−2

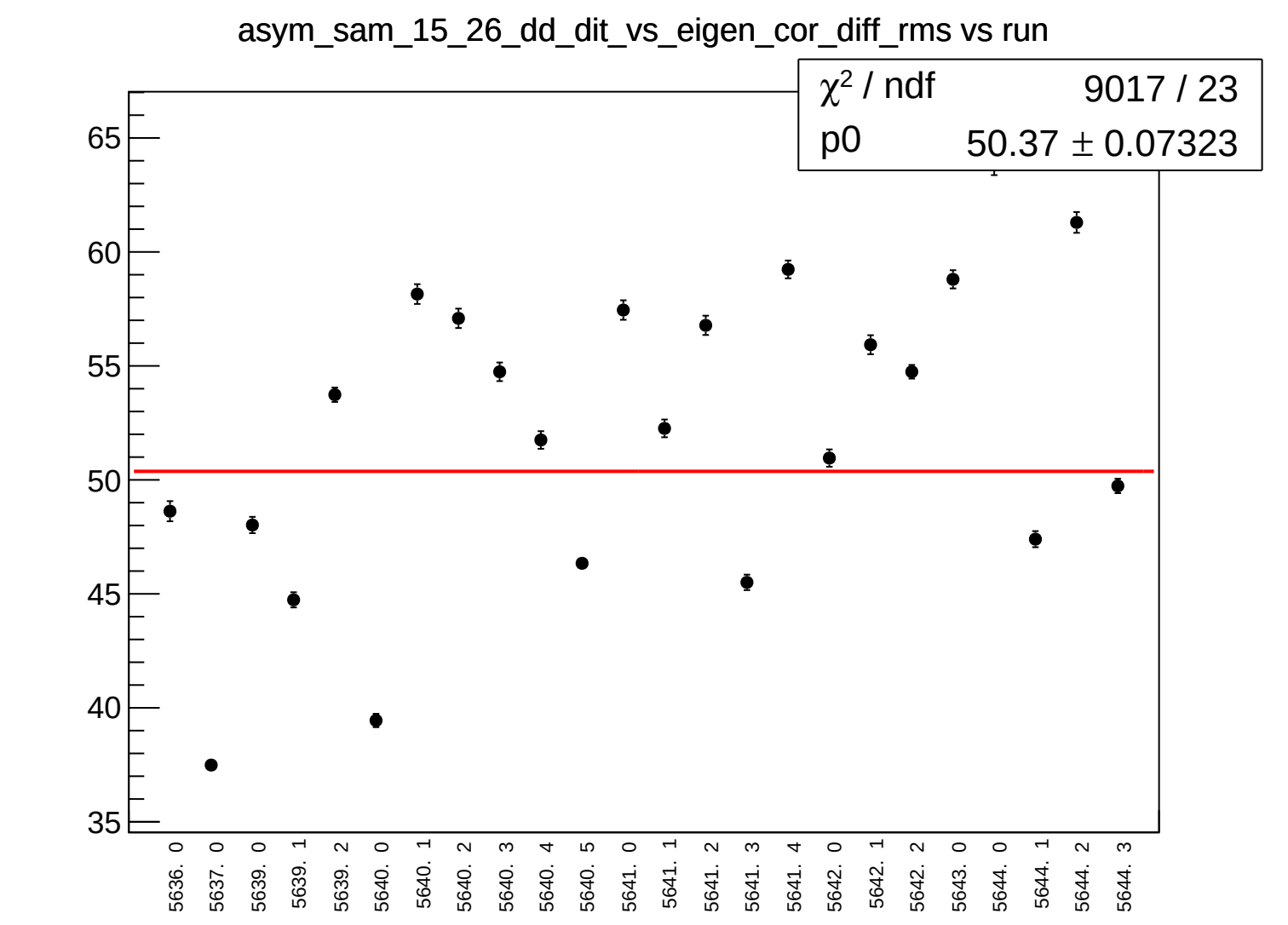

pull1D
Entries 24
Mean 0.137
Std Dev 1.032
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

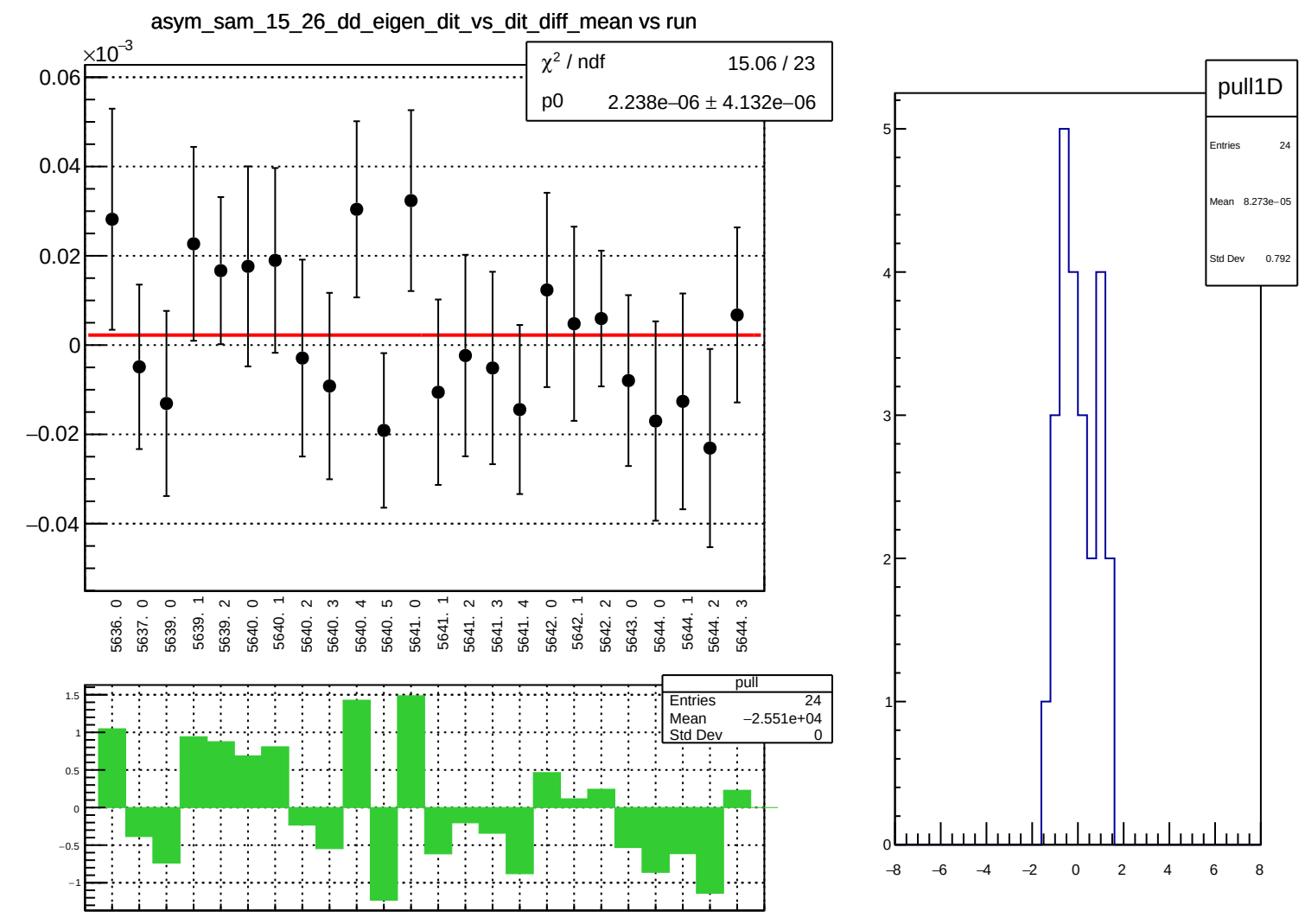

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.9e+05 / 23
p0 7.74e−11 ± 1.432e−13
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

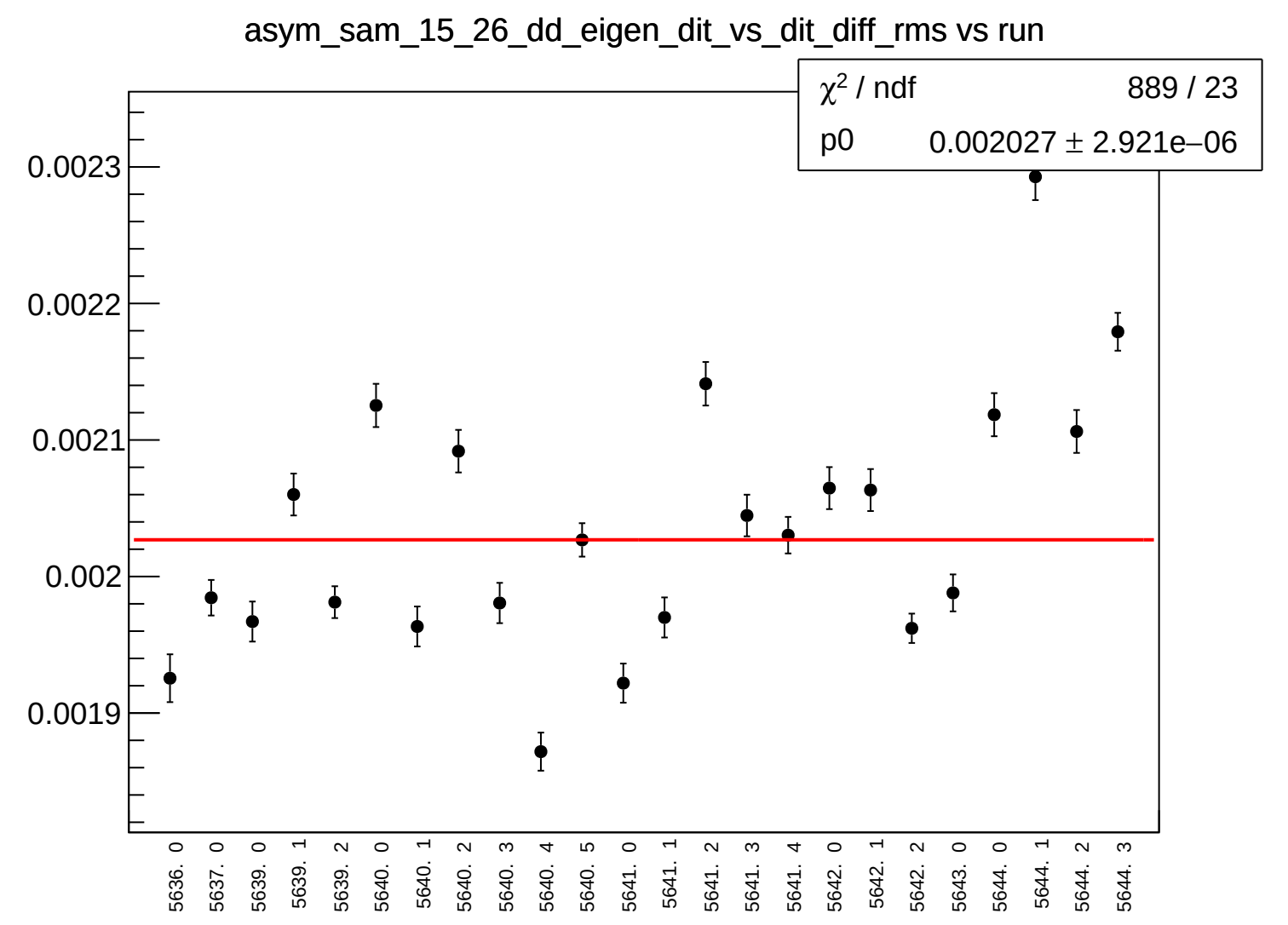

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 25.24 / 23
p0 −0.07724 ± 0.1036
1.5
1
0.5
0
−0.5
−1
−1.5
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −29.91
Std Dev 0
pull1D
Entries 24
Mean −0.03061
Std Dev 1.025
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

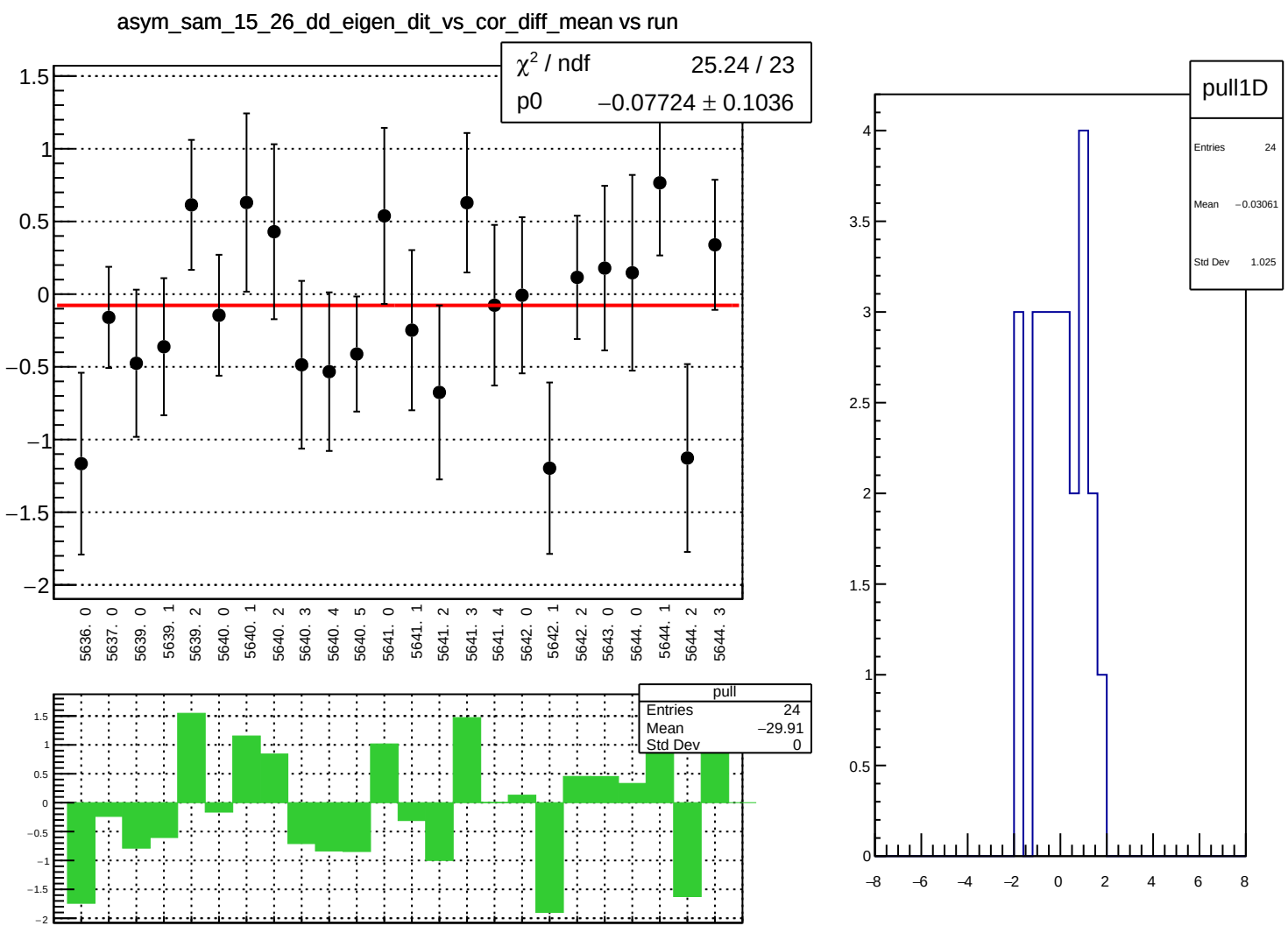

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9017 / 23
p0 50.37 ± 0.07323
65
60
55
50
45
40
35
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

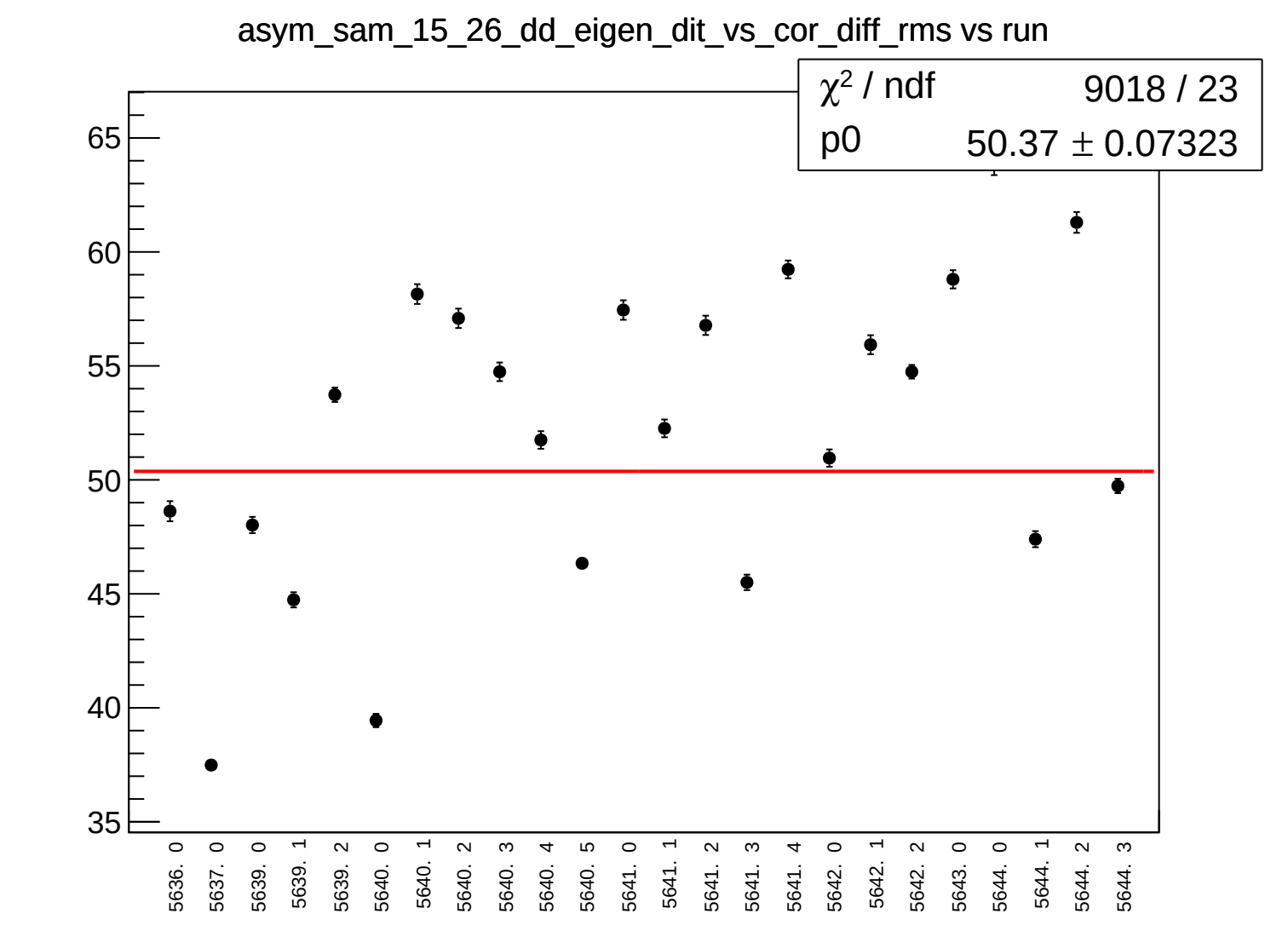

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.24 / 23
p0 −0.07724 ± 0.1036
1.5
1
0.5
0
−0.5
−1
−1.5
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −29.91
Std Dev 0
pull1D
Entries 24
Mean −0.03061
Std Dev 1.025
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9017 / 23
p0 50.37 ± 0.07323
65
60
55
50
45
40
35
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

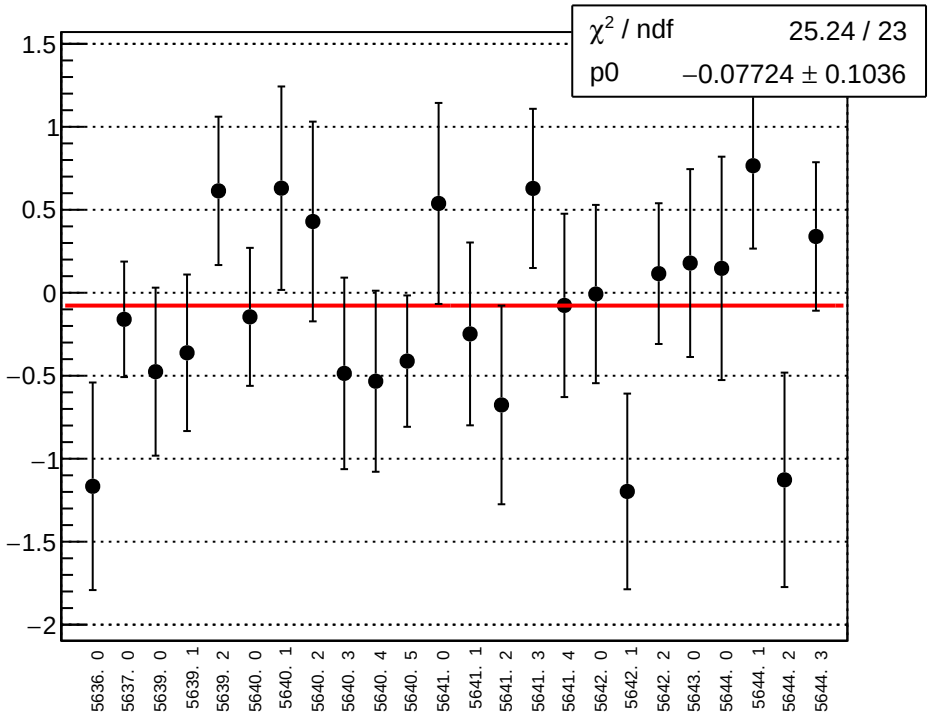

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 15.06 / 23
p0 2.238e−06 ± 4.132e−06
0.06
0.04
0.02
0
−0.02
−0.04
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −2.551e+04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 8.273e−05
Std Dev 0.792
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

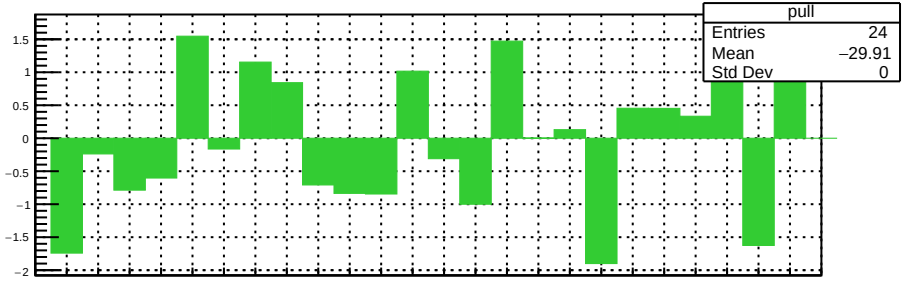

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ2 / ndf 889 / 23
p0 0.002027 ± 2.921e−06
0.0023
0.0022
0.0021
0.002
0.0019
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

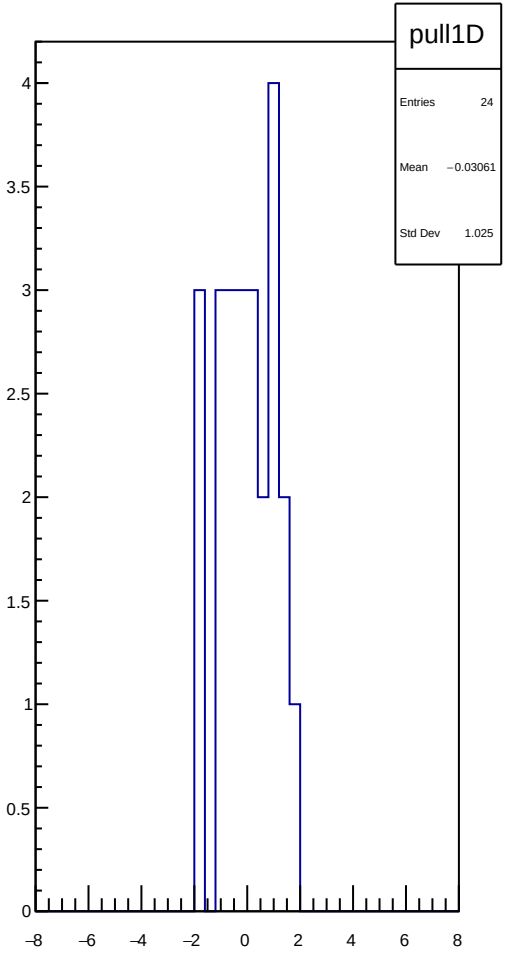

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 25.24 / 23
p0 −0.07724 ± 0.1036
1.5
1
0.5
0
−0.5
−1
−1.5
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −29.91
Std Dev 0
pull1D
Entries 24
Mean −0.03061
Std Dev 1.025
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

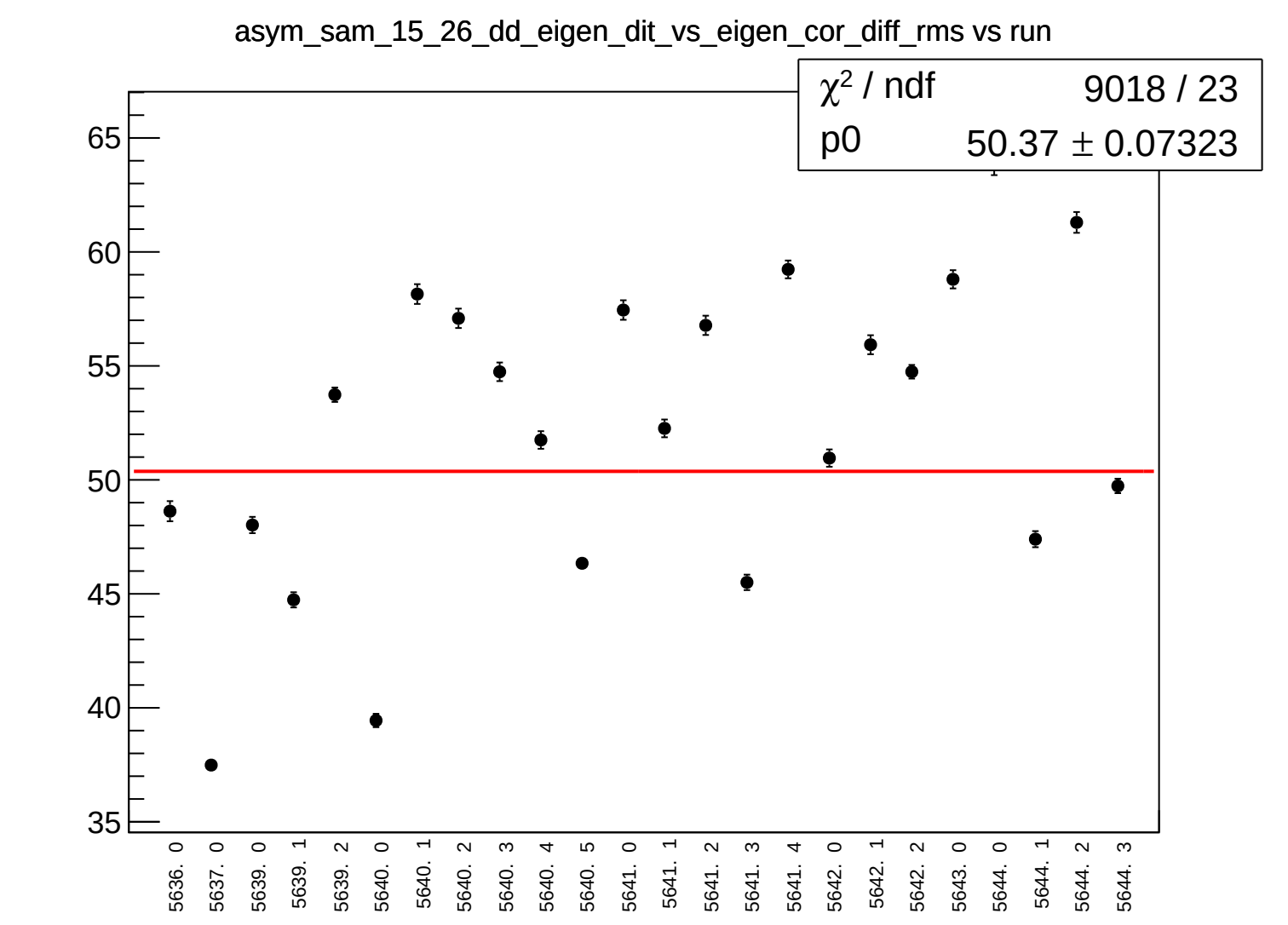

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9018 / 23
p0 50.37 ± 0.07323
65
60
55
50
45
40
35
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

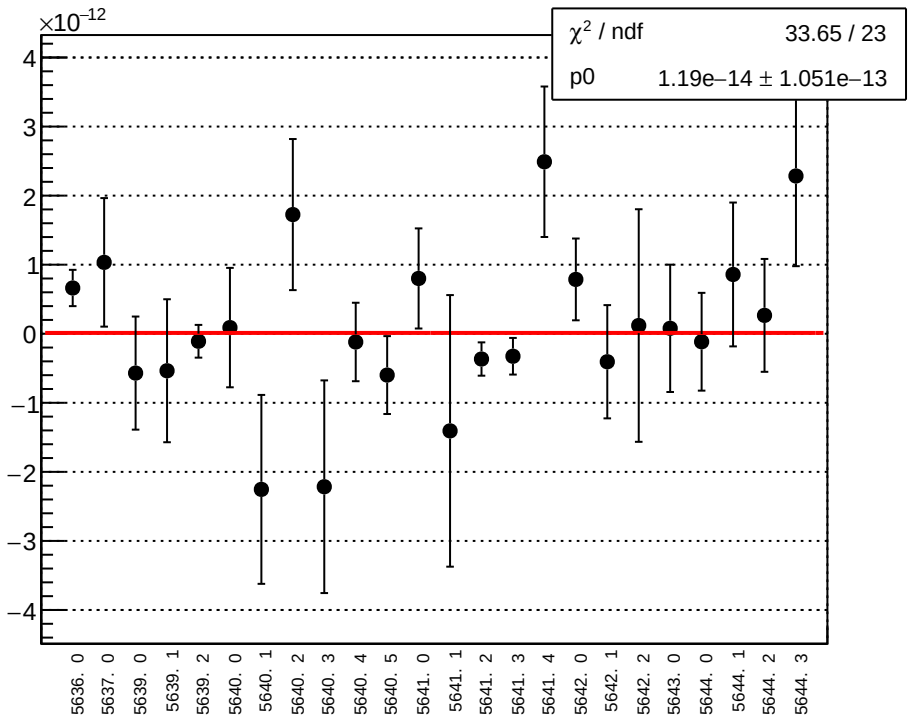
asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

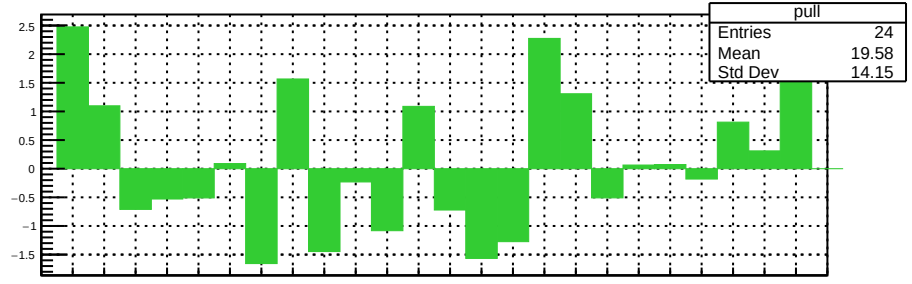


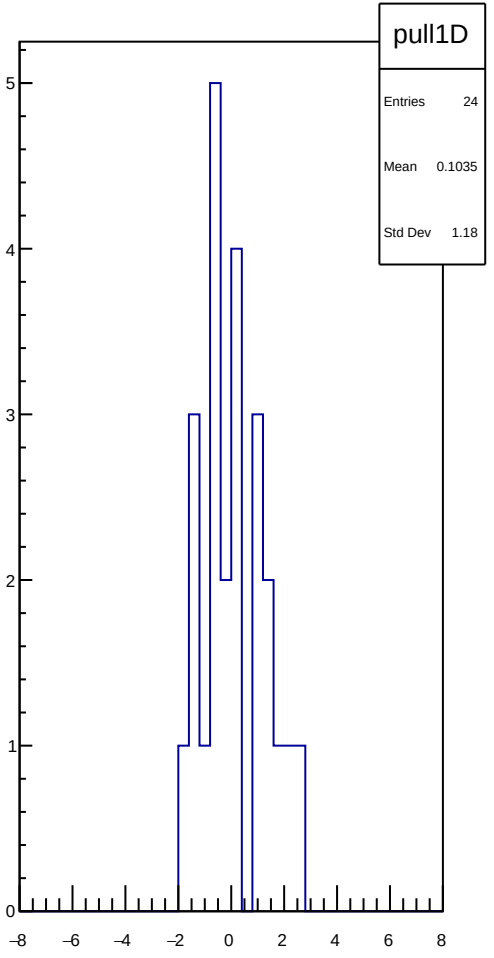


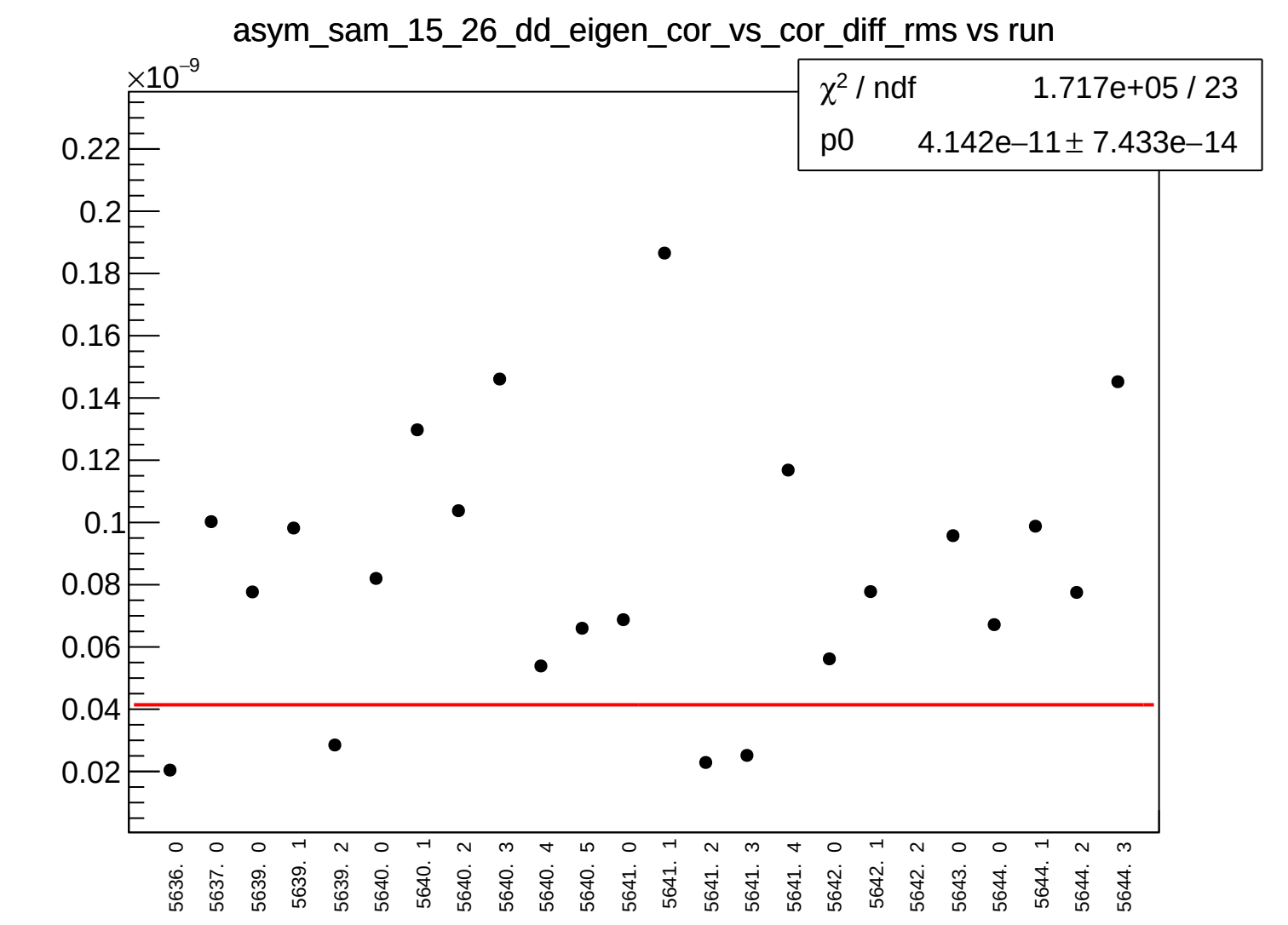


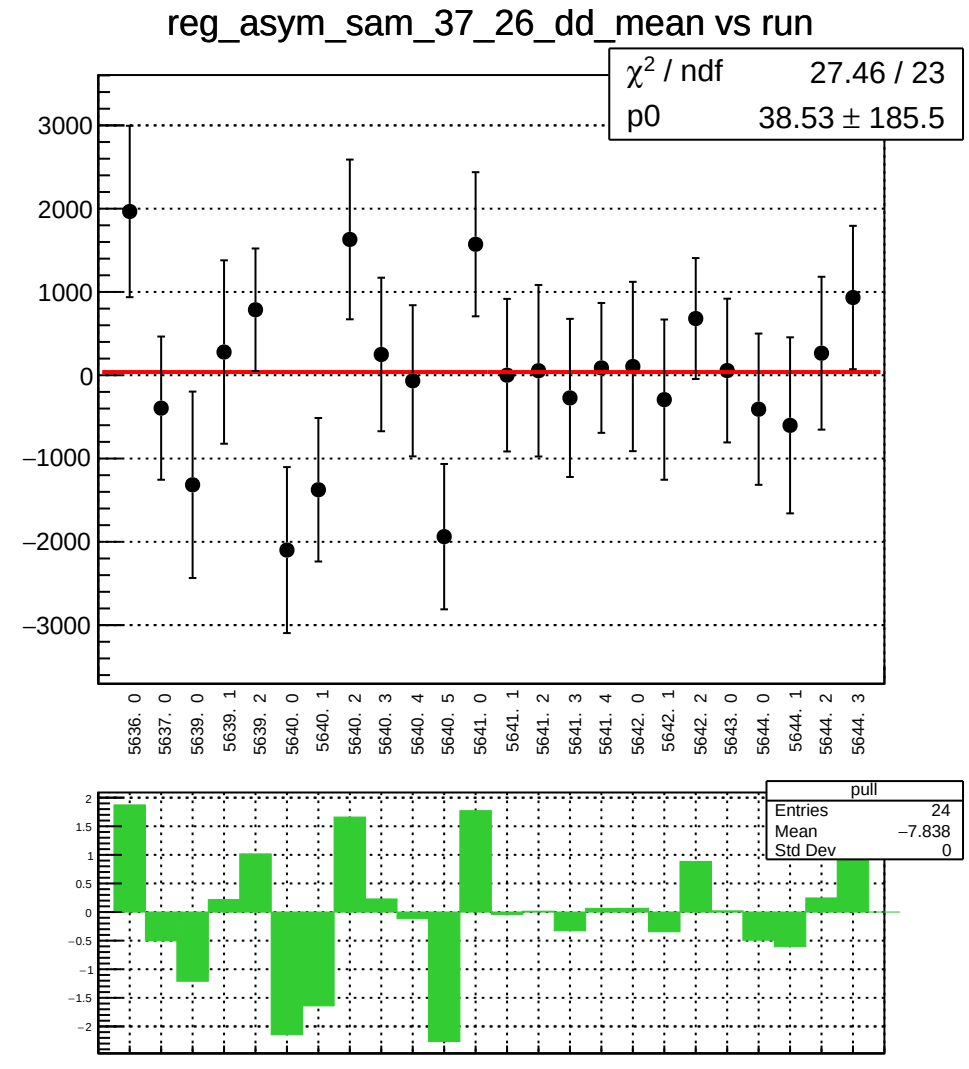

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9018 / 23
p0 50.37 ± 0.07323
65
60
55
50
45
40
35
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

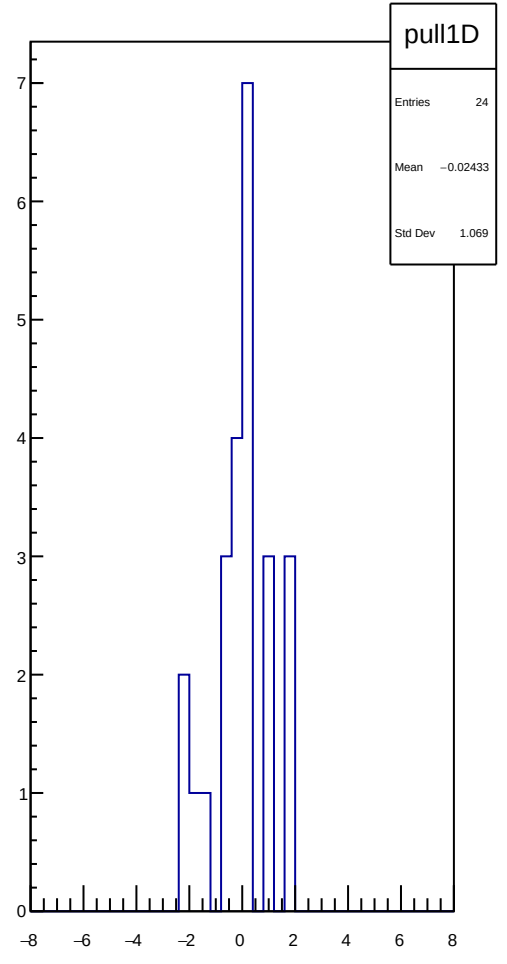

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 33.65 / 23
p0 1.19e−14 ± 1.051e−13
4
3
2
1
0
−1
−2
−3
−4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

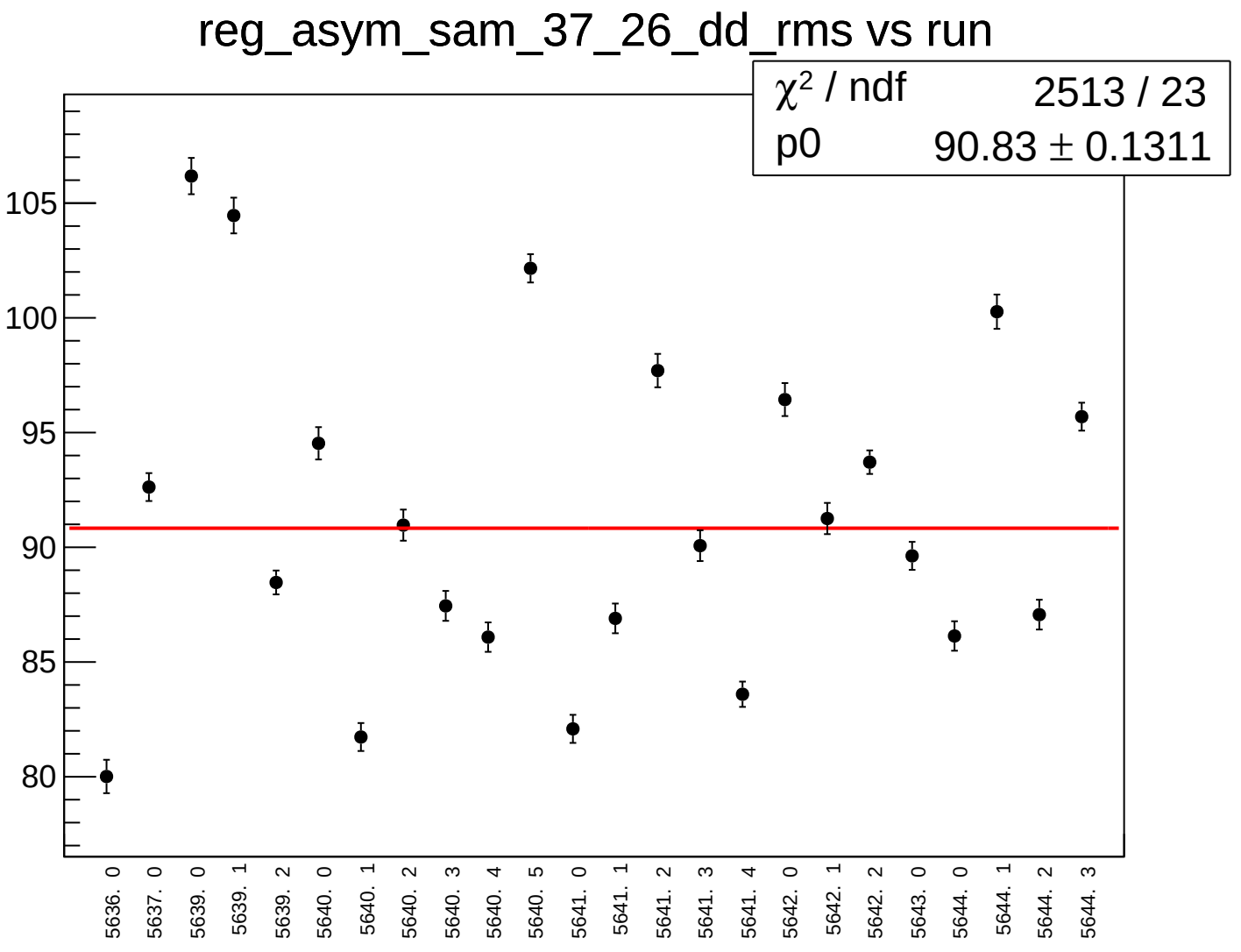

pull
Entries 24
Mean 19.58
Std Dev 14.15
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

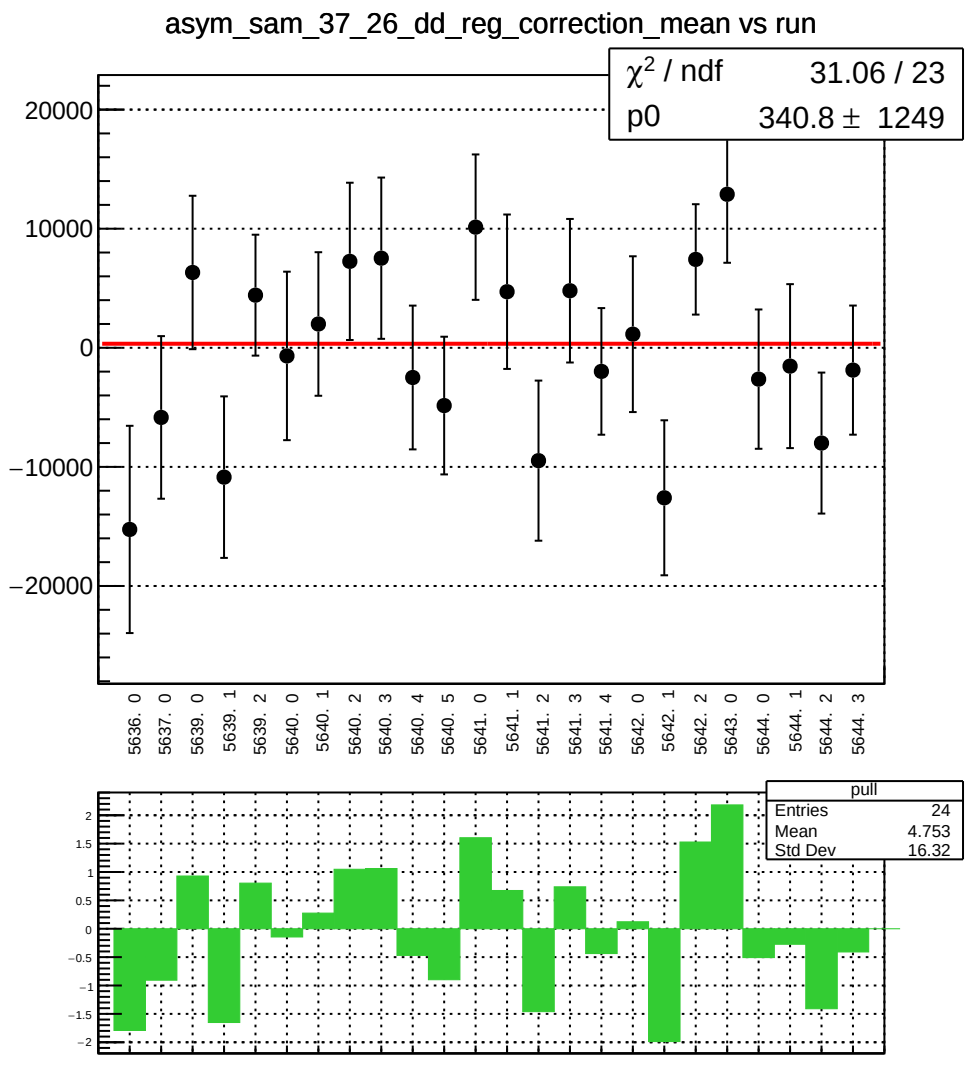

pull1D
Entries 24
Mean 0.1035
Std Dev 1.18
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

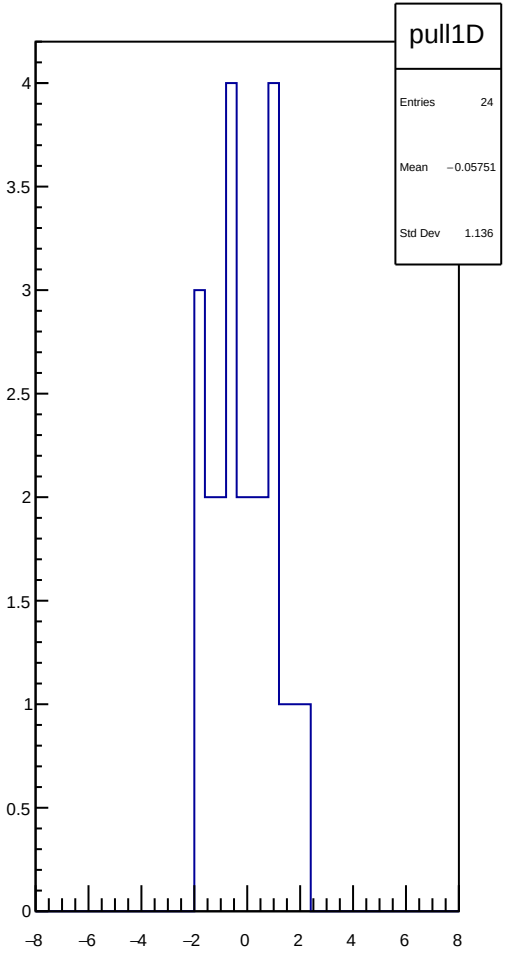

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.717e+05 / 23
p0 4.142e−11 ± 7.433e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

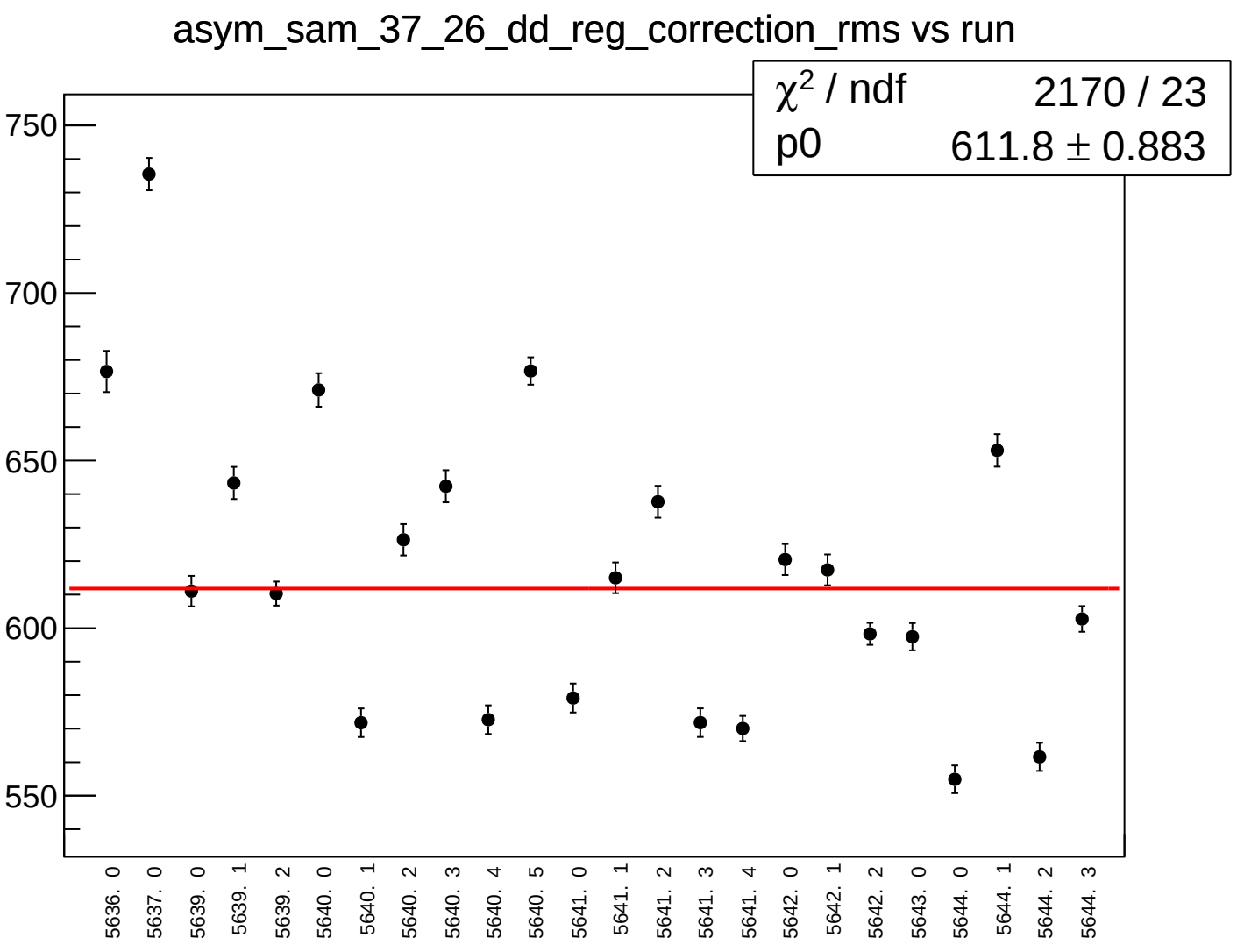

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 27.46 / 23
p0 38.53 ± 185.5
3000
2000
1000
0
−1000
−2000
−3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −7.838
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

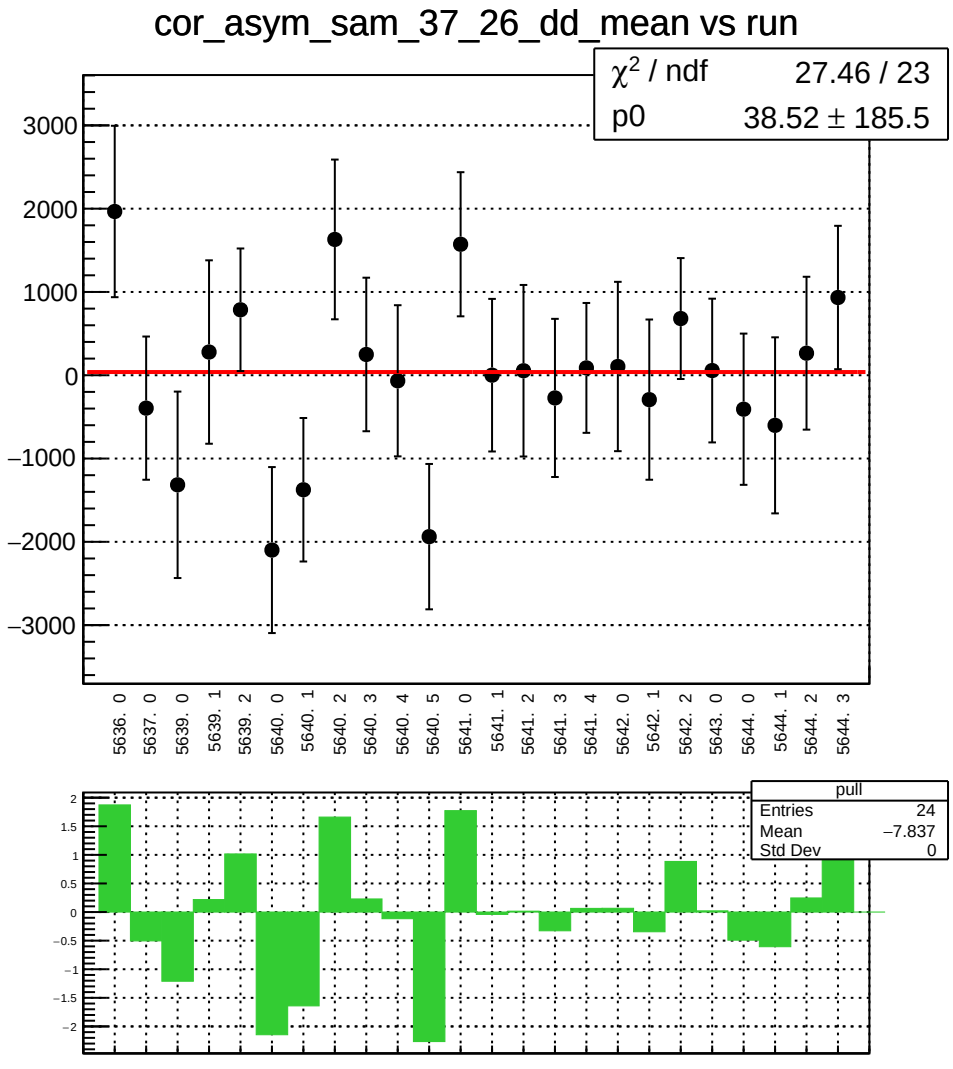

pull1D
Entries 24
Mean −0.02433
Std Dev 1.069
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

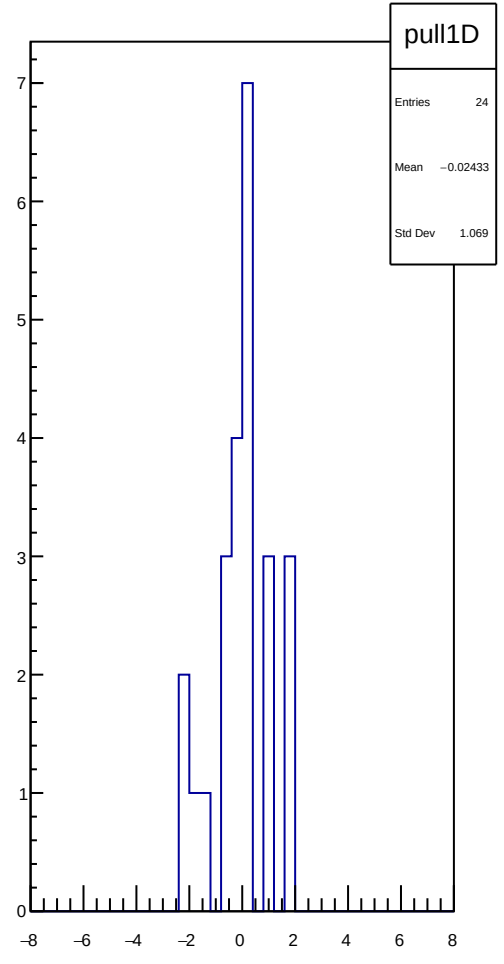

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 2513 / 23
p0 90.83 ± 0.1311
105
100
95
90
85
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

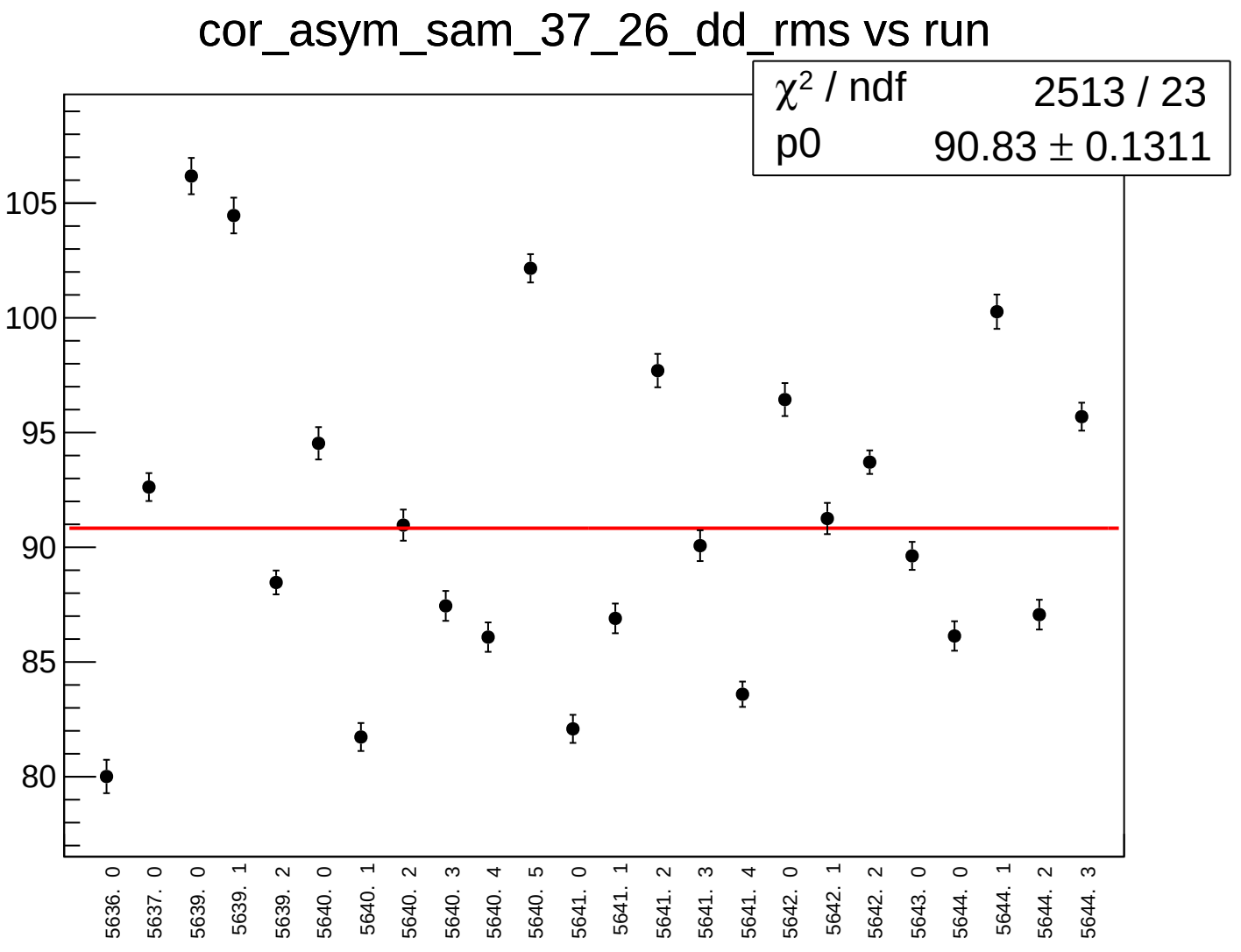

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 31.06 / 23
p0 340.8 ± 1249
20000
10000
0
−10000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 4.753
Std Dev 16.32
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

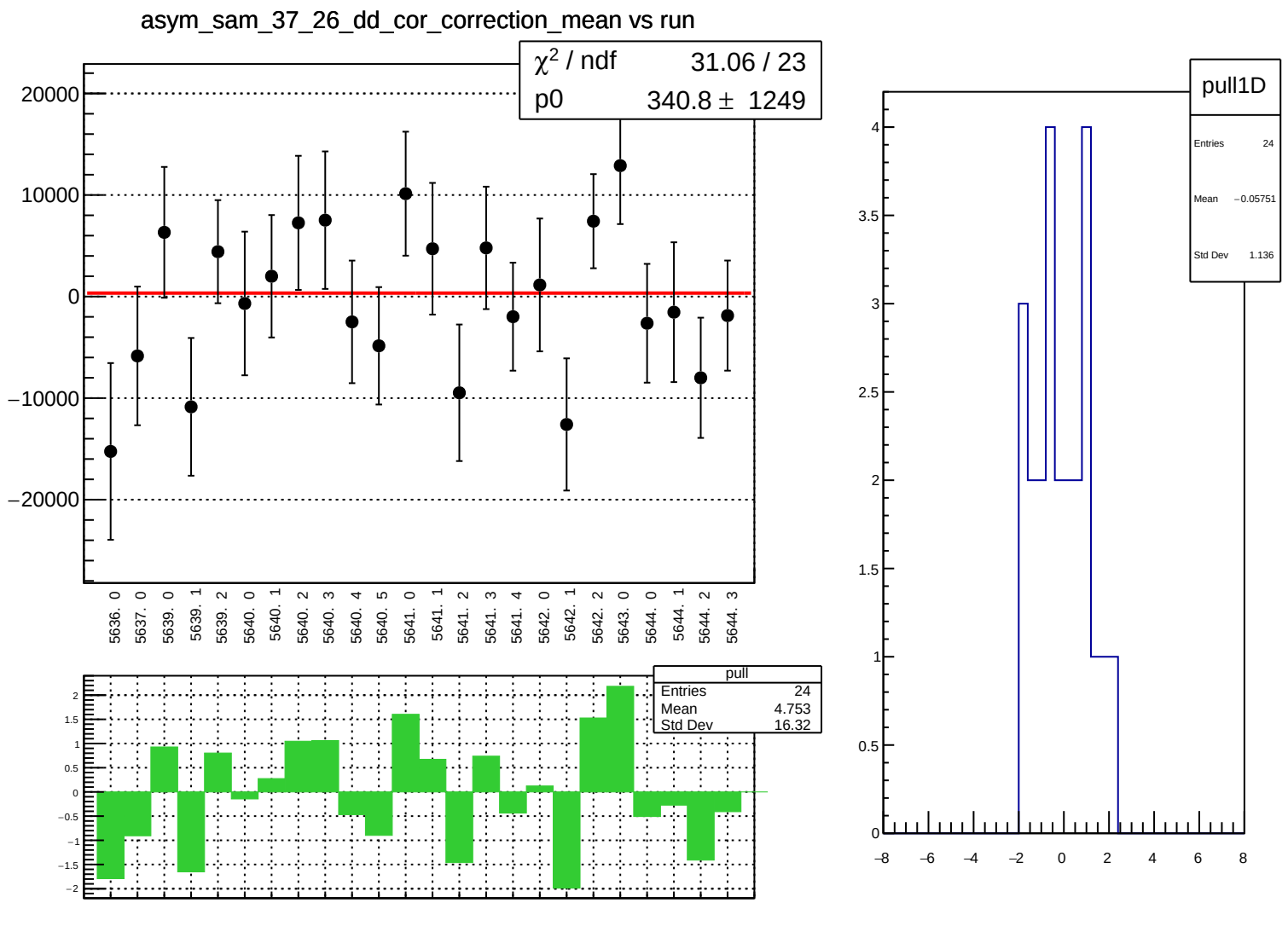

pull1D
Entries 24
Mean −0.05751
Std Dev 1.136
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

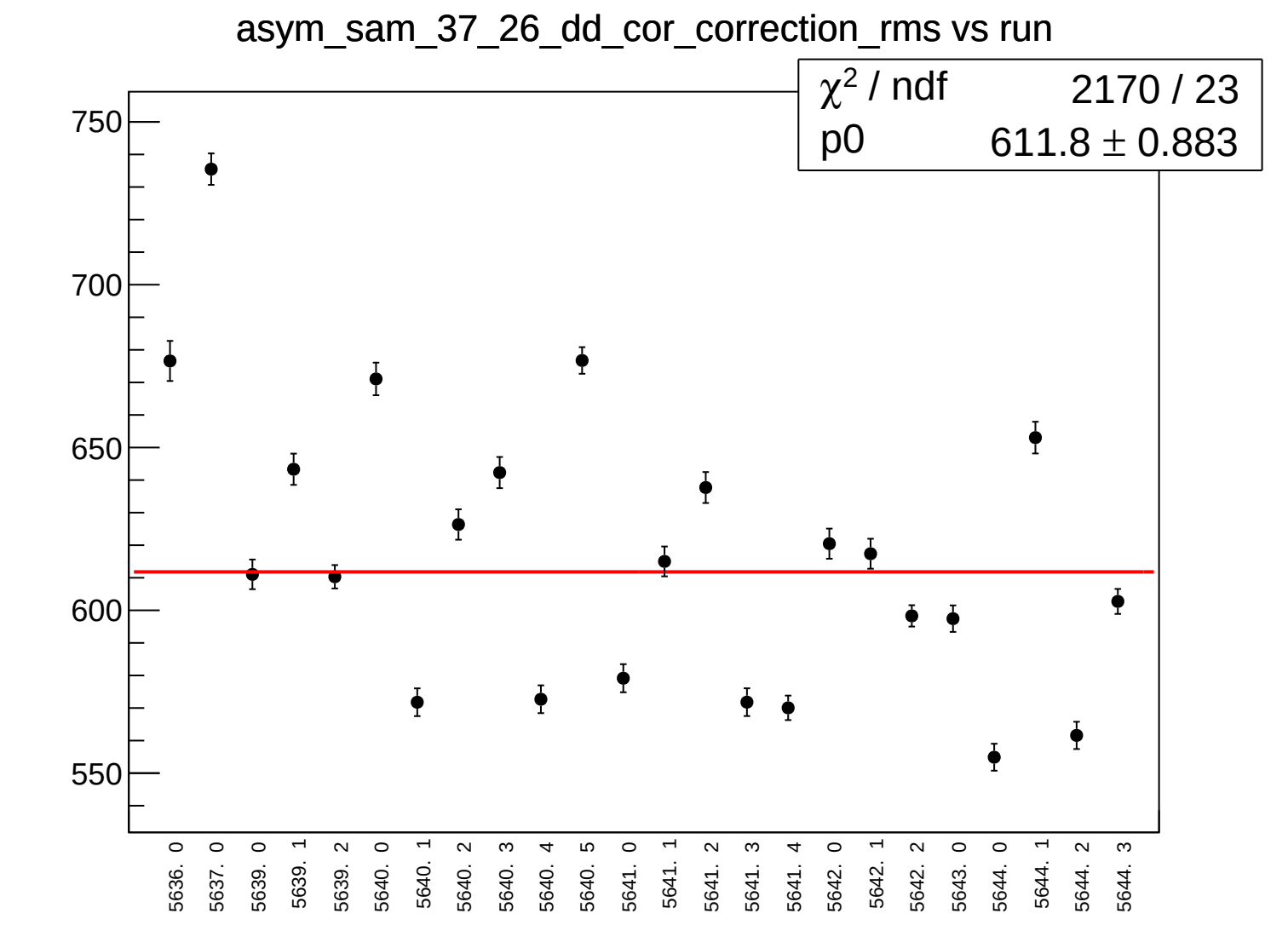

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 2170 / 23
p0 611.8 ± 0.883
750
700
650
600
550
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

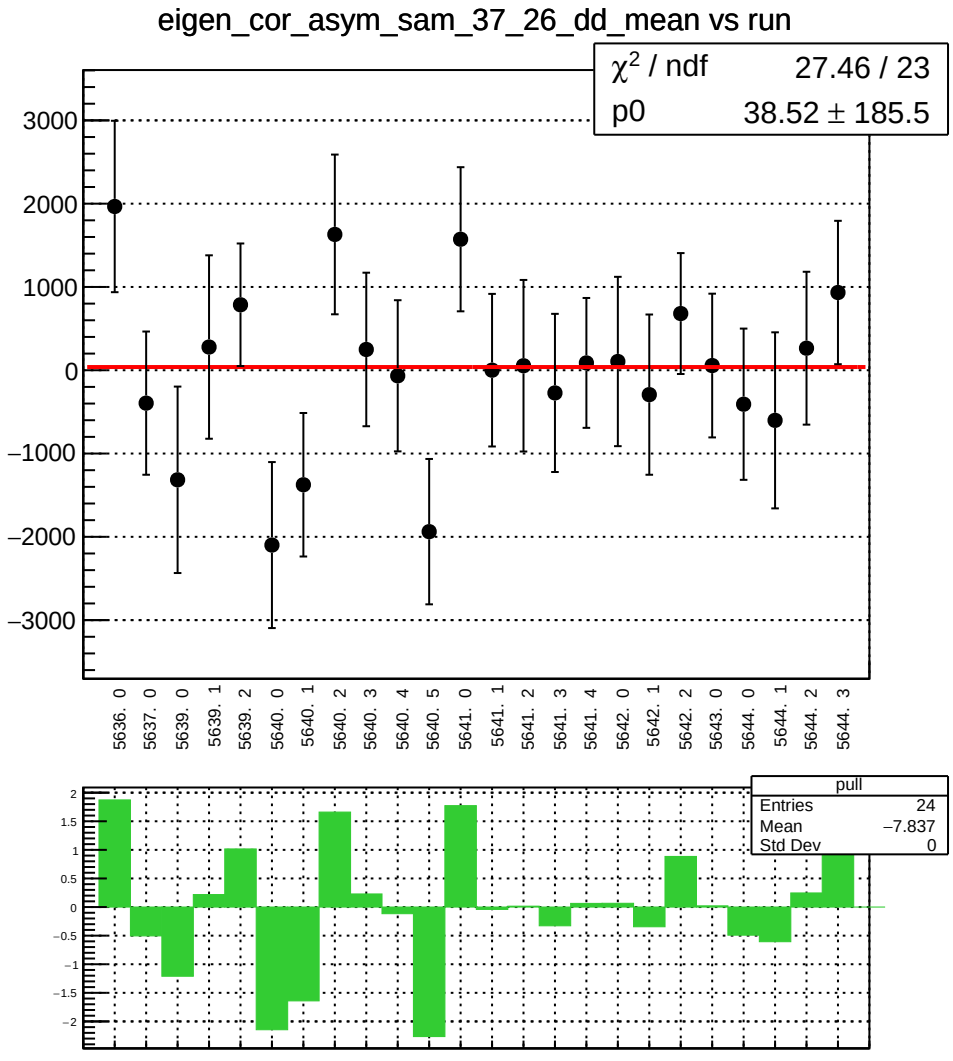

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 27.46 / 23
p0 38.52 ± 185.5
3000
2000
1000
0
−1000
−2000
−3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −7.837
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

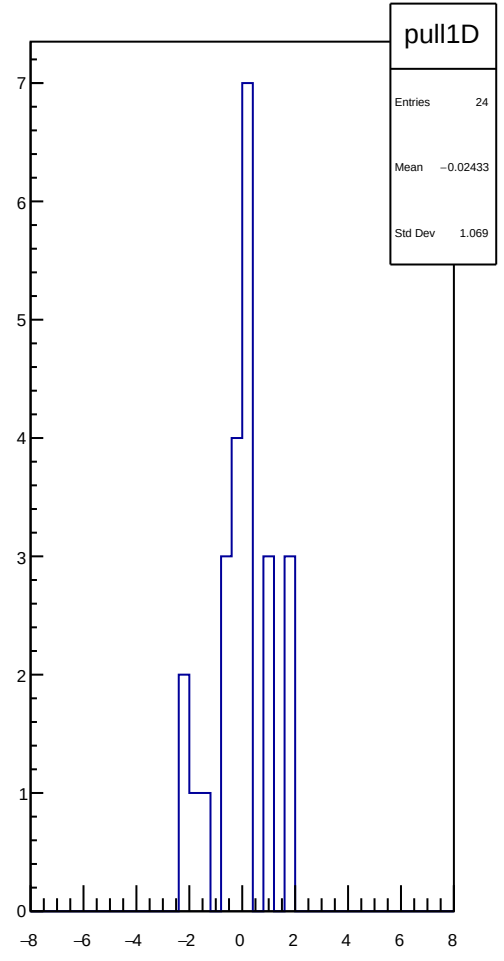

pull1D
Entries 24
Mean −0.02433
Std Dev 1.069
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

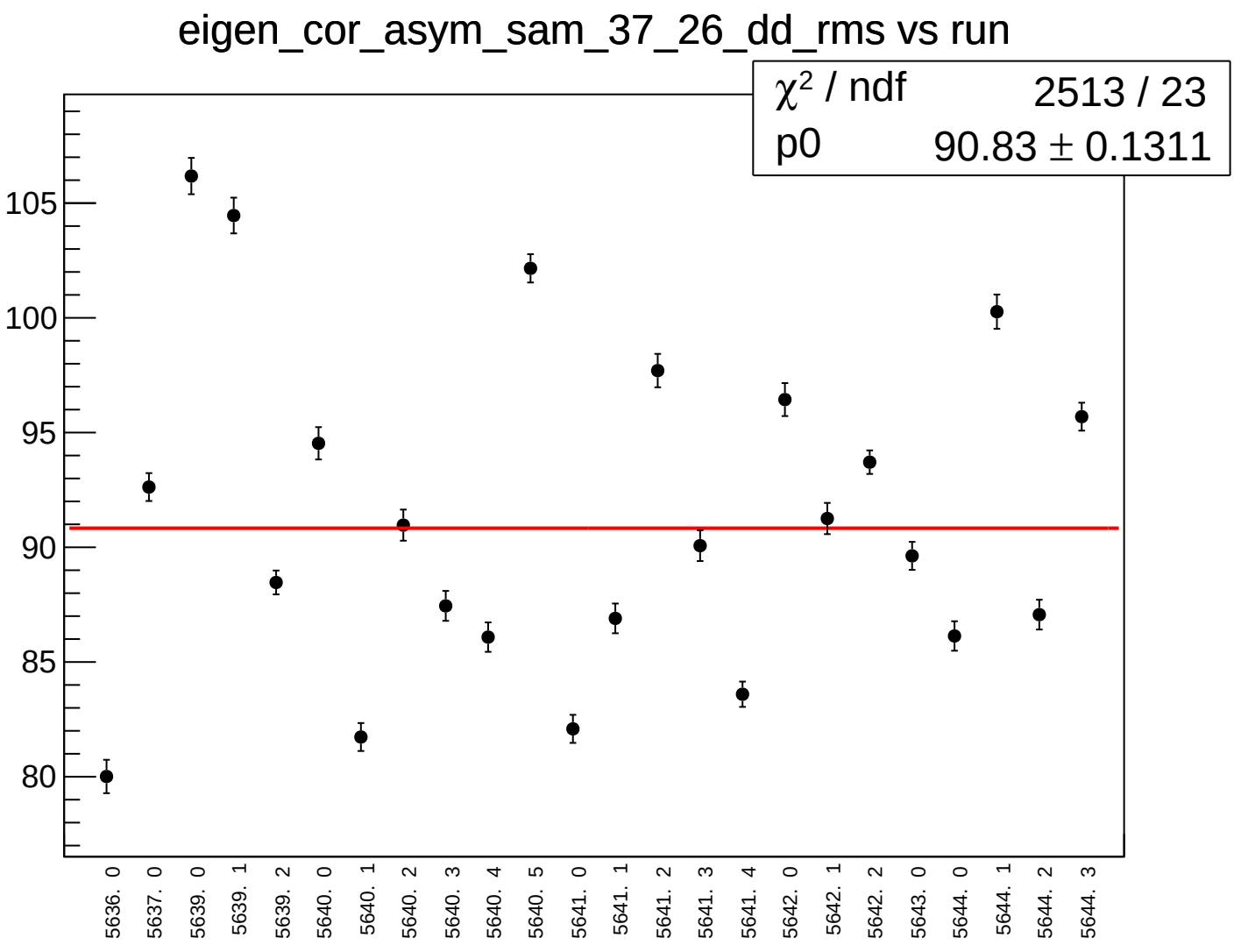

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 2513 / 23
p0 90.83 ± 0.1311
105
100
95
90
85
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

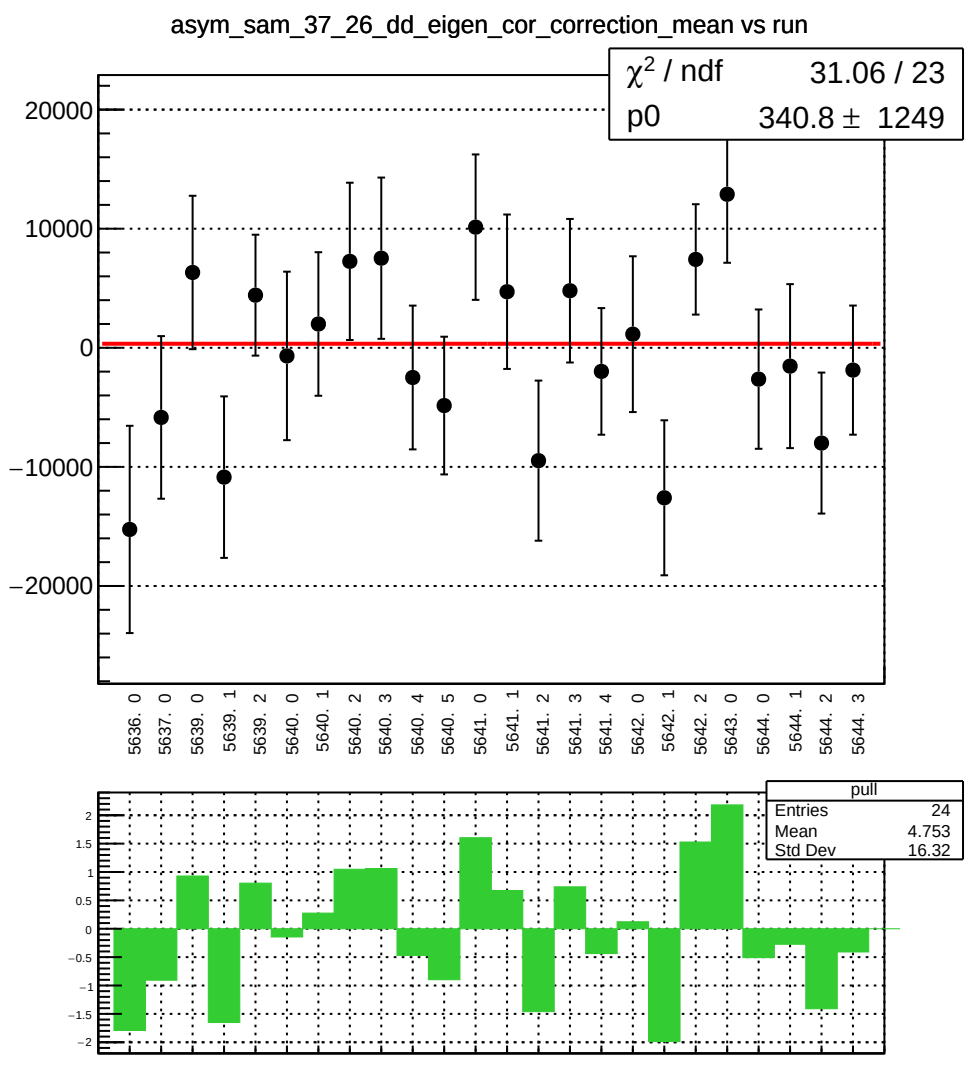

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 31.06 / 23
p0 340.8 ± 1249
20000
10000
0
−10000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 4.753
Std Dev 16.32
pull1D
Entries 24
Mean −0.05751
Std Dev 1.136

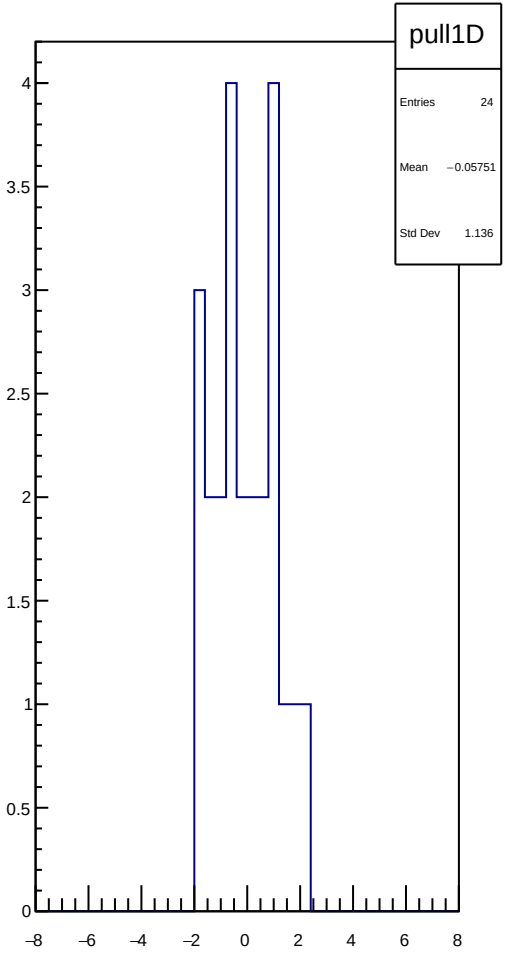

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 2170 / 23
p0 611.8 ± 0.883
750
700
650
600
550
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

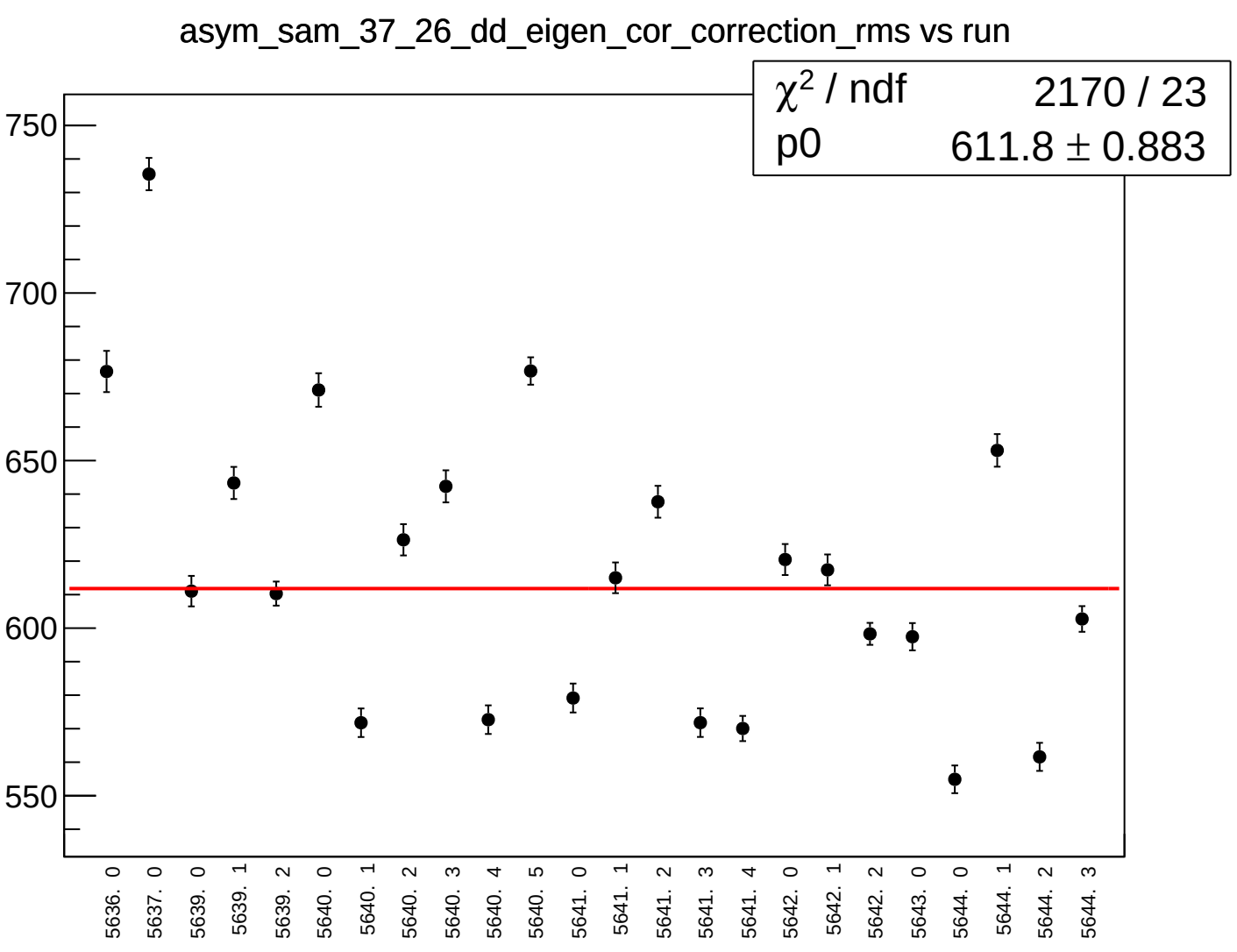

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 27.46 / 23
p0 38.52 ± 185.5
3000
2000
1000
0
−1000
−2000
−3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −7.837
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

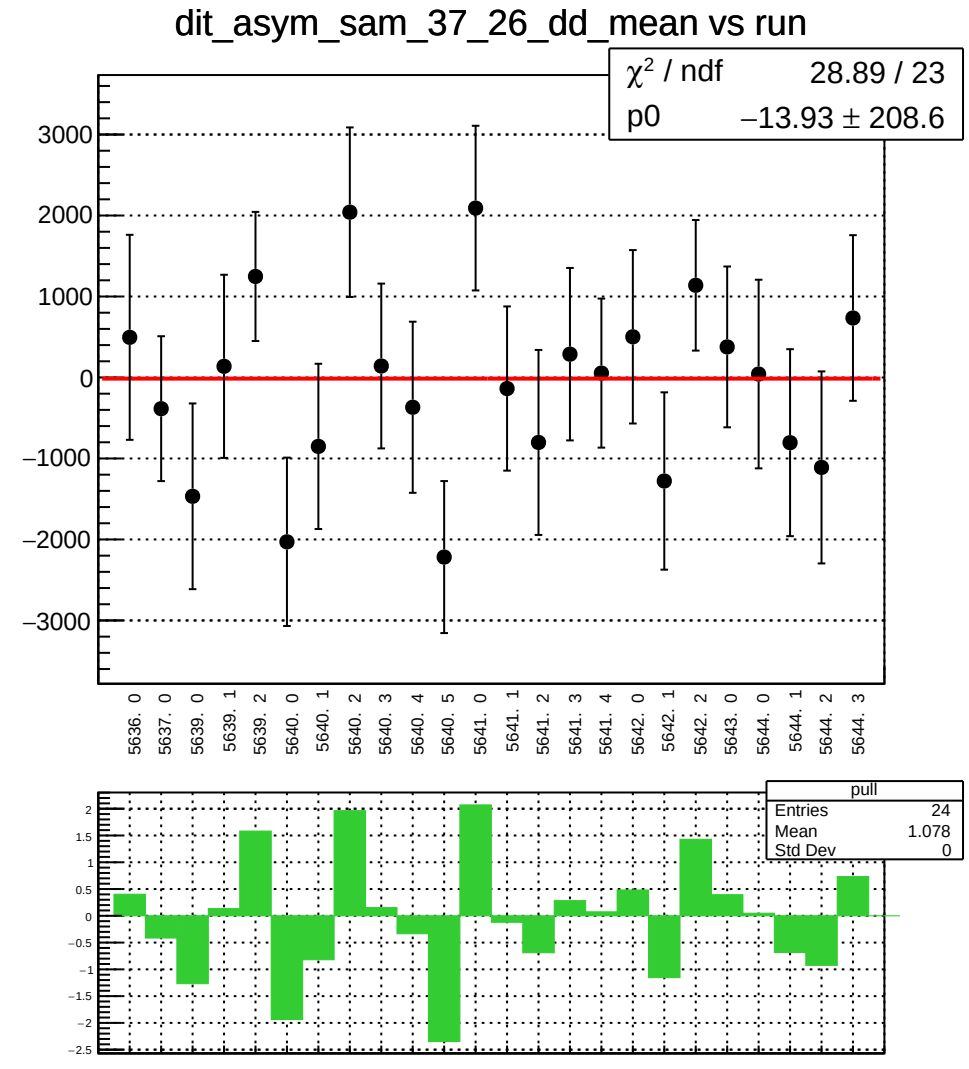

pull1D
Entries 24
Mean −0.02433
Std Dev 1.069
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

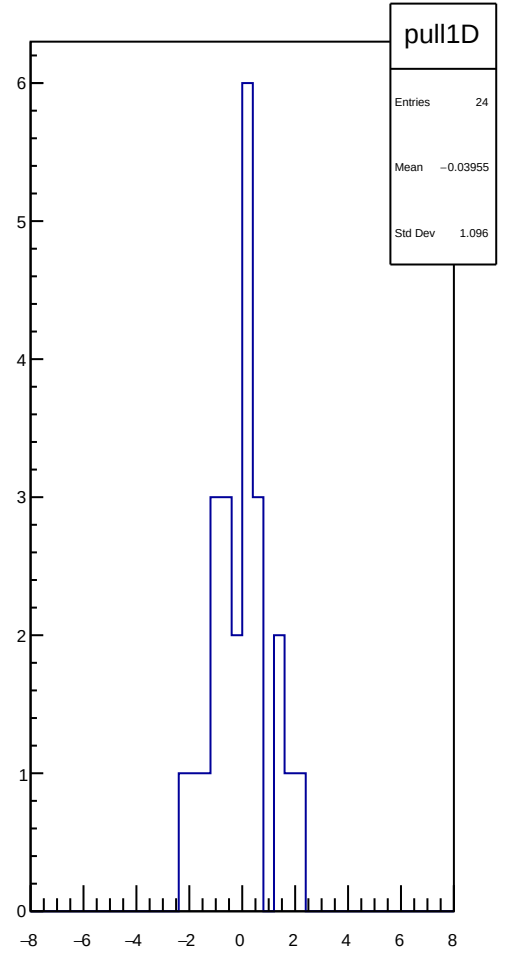

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 2513 / 23
p0 90.83 ± 0.1311
105
100
95
90
85
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

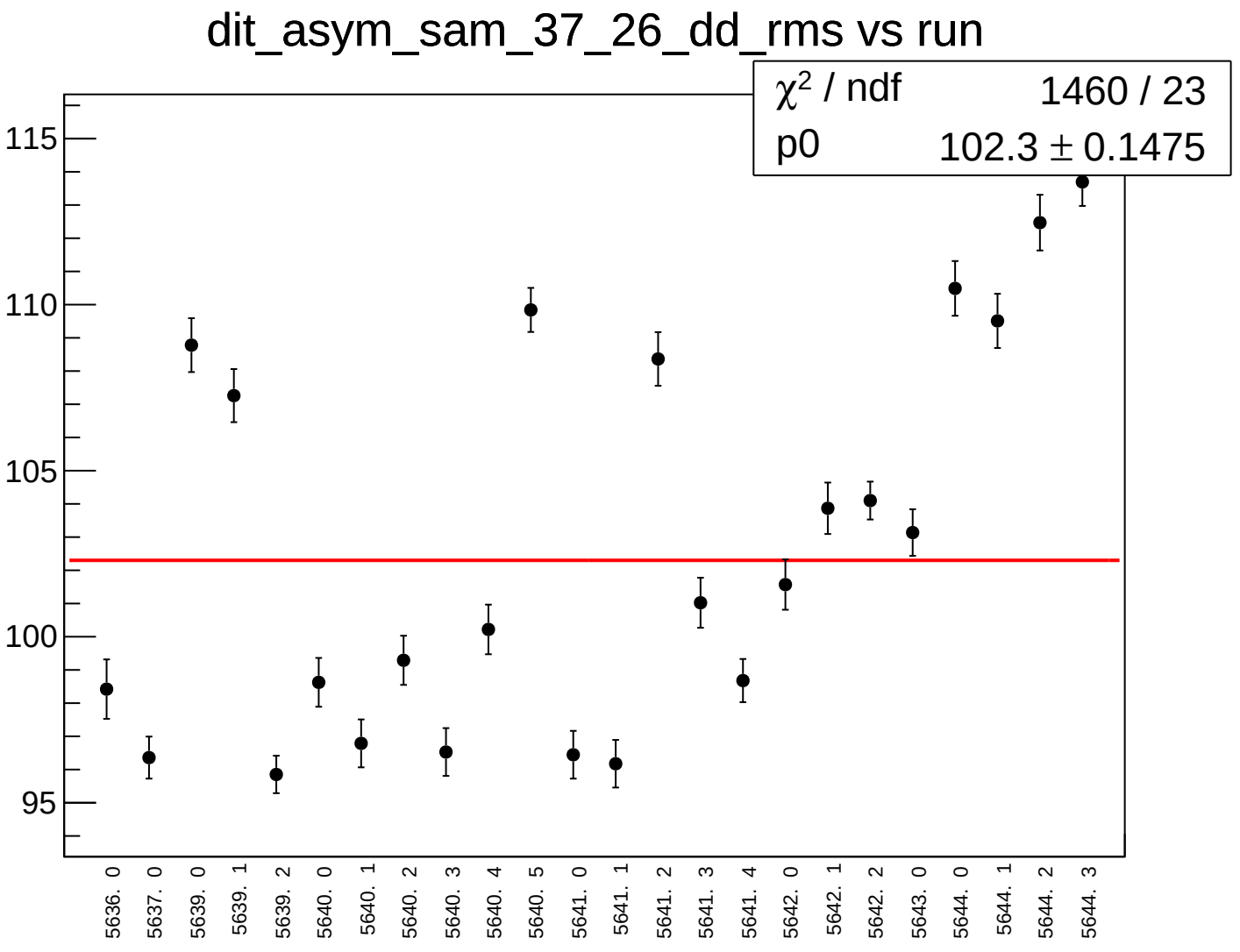

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 31.06 / 23
p0 340.8 ± 1249
20000
10000
0
−10000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 4.753
Std Dev 16.32
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

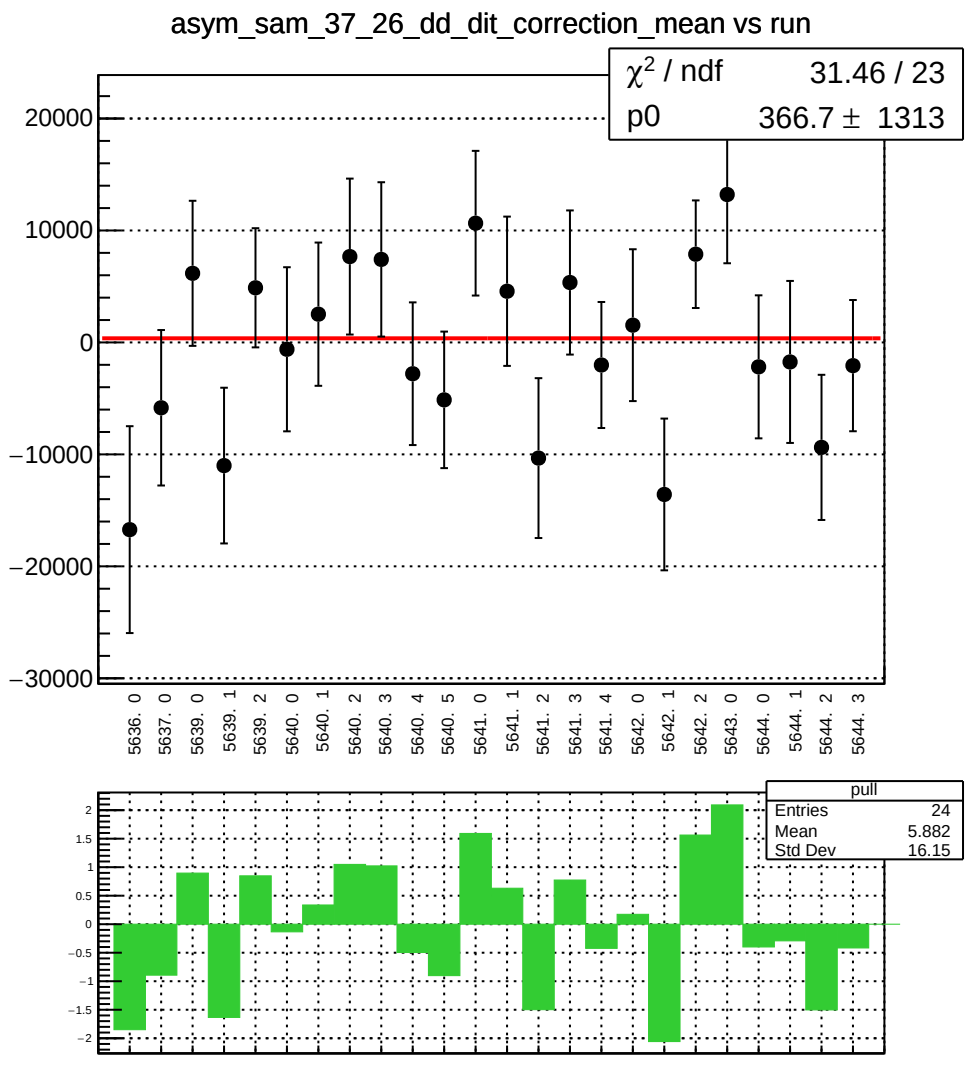

pull1D
Entries 24
Mean −0.05751
Std Dev 1.136
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

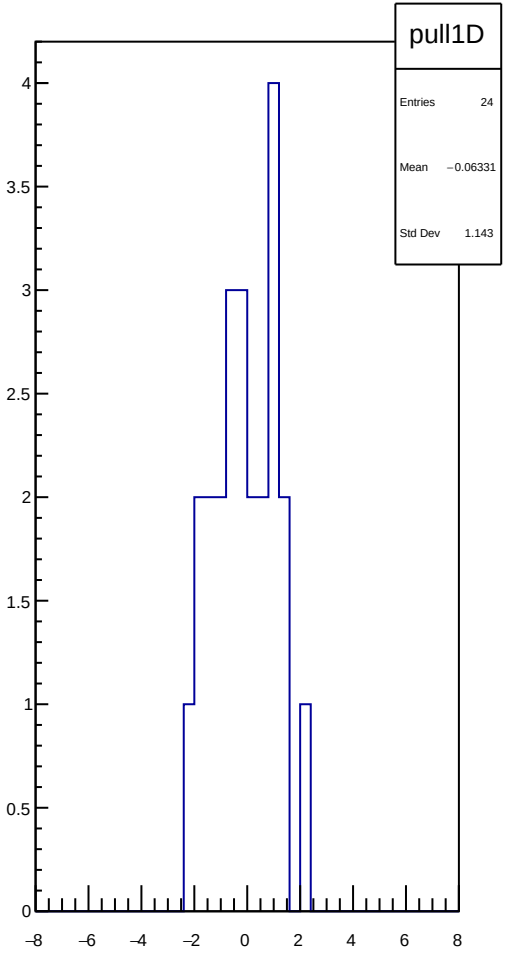

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 2170 / 23
p0 611.8 ± 0.883
750
700
650
600
550
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

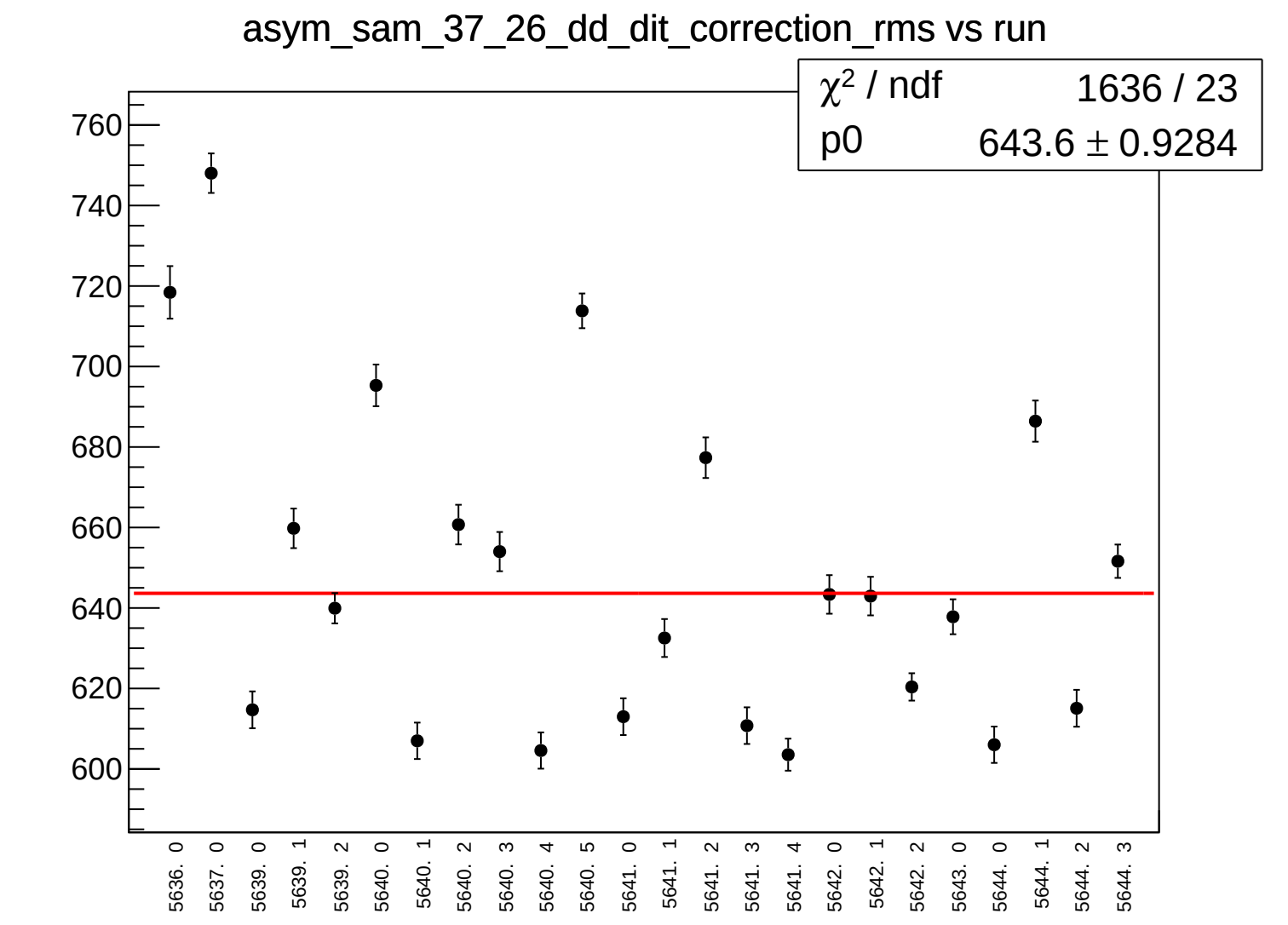

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 28.89 / 23
p0 −13.93 ± 208.6
3000
2000
1000
0
−1000
−2000
−3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 1.078
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 24
Mean −0.03955
Std Dev 1.096
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 1460 / 23
p0 102.3 ± 0.1475
115
110
105
100
95
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 31.46 / 23
p0 366.7 ± 1313
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 5.882
Std Dev 16.15
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.06331
Std Dev 1.143
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_26_dd_dit_correction_rms vs run
χ² / ndf 1636 / 23
p0 643.6 ± 0.9284
760
740
720
700
680
660
640
620
600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
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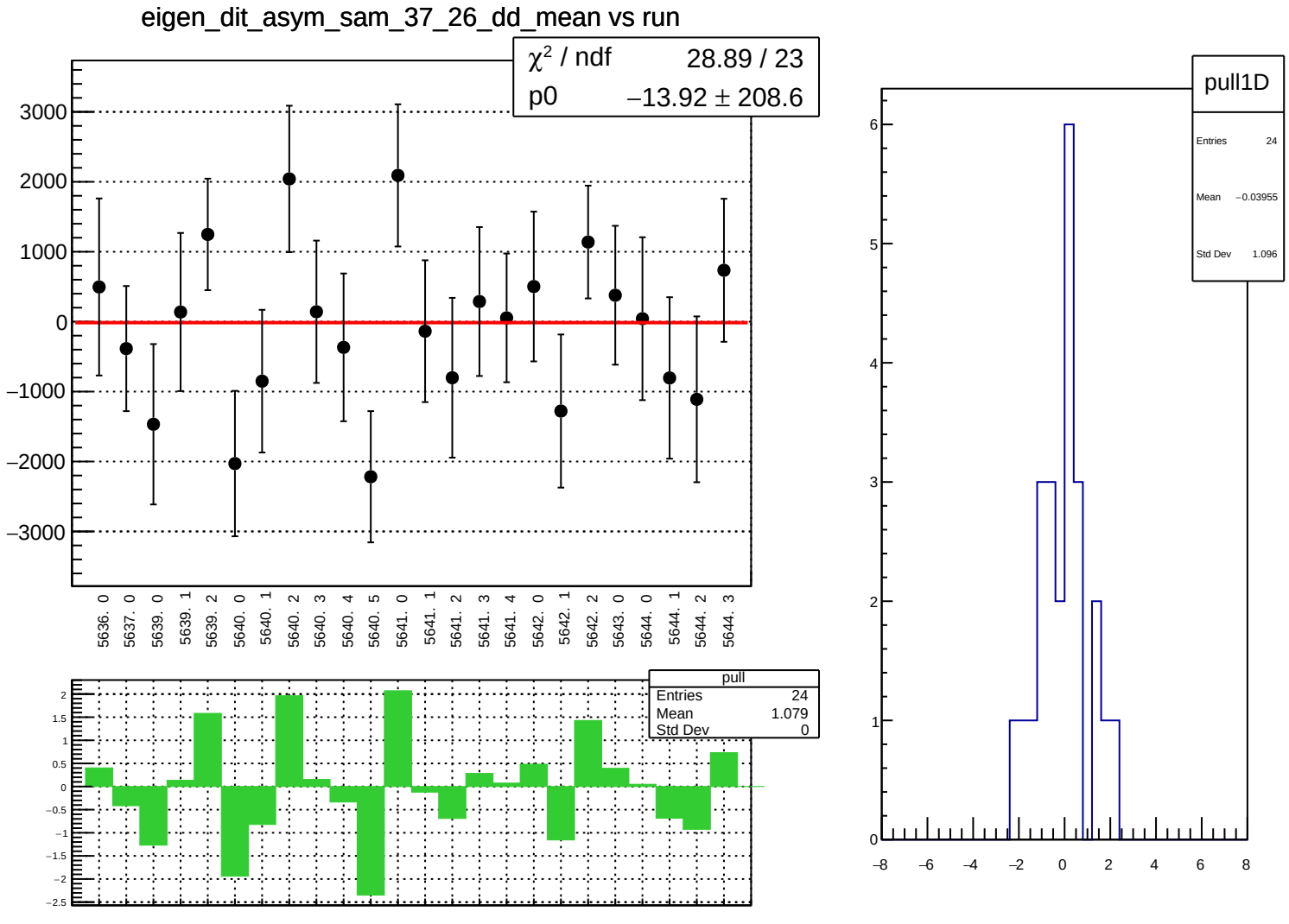
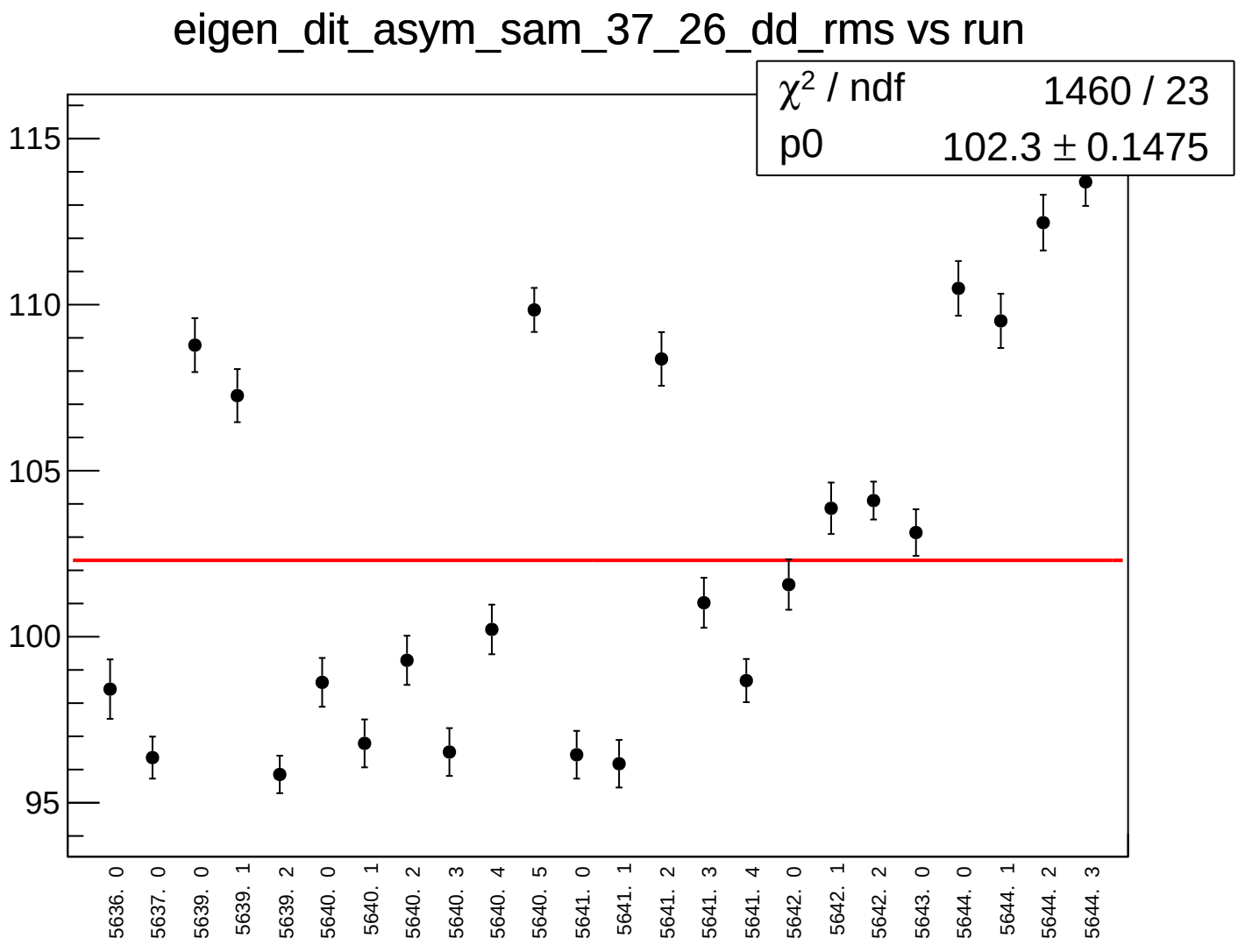
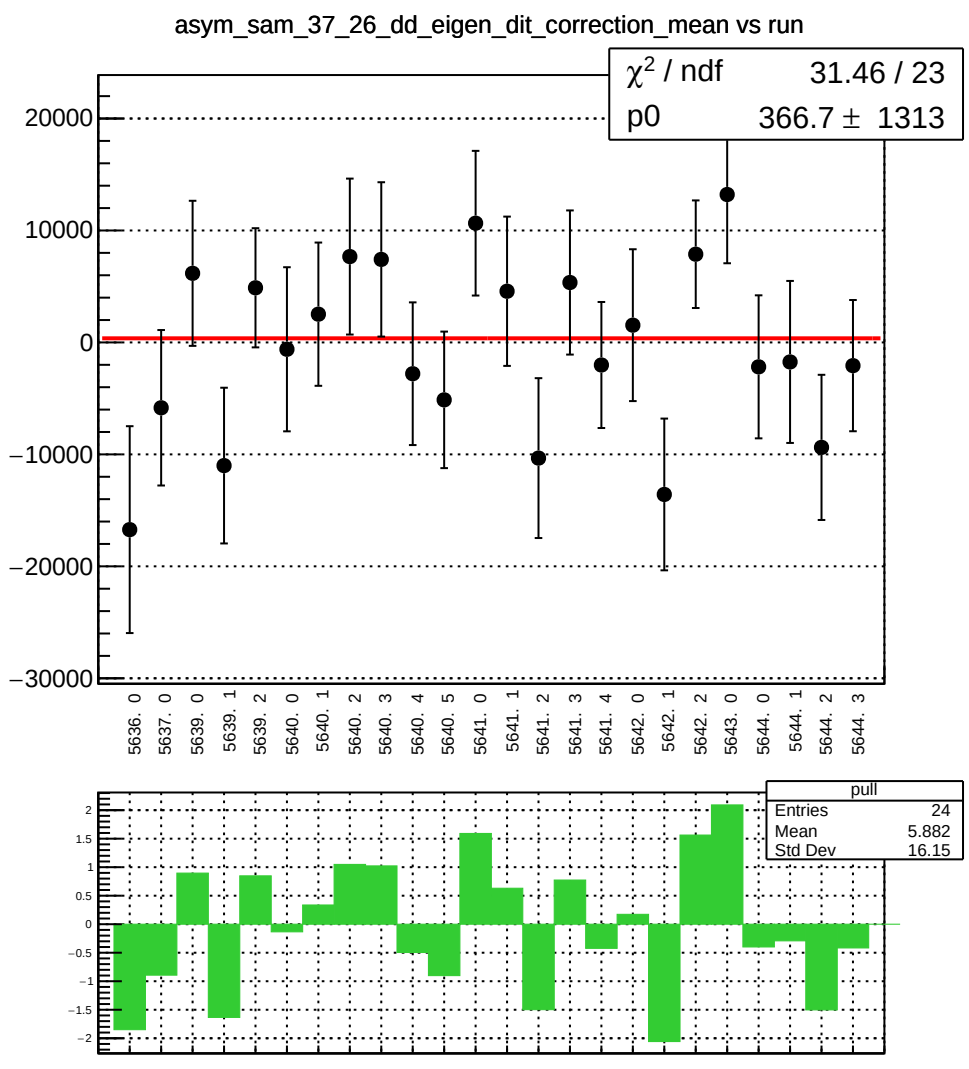
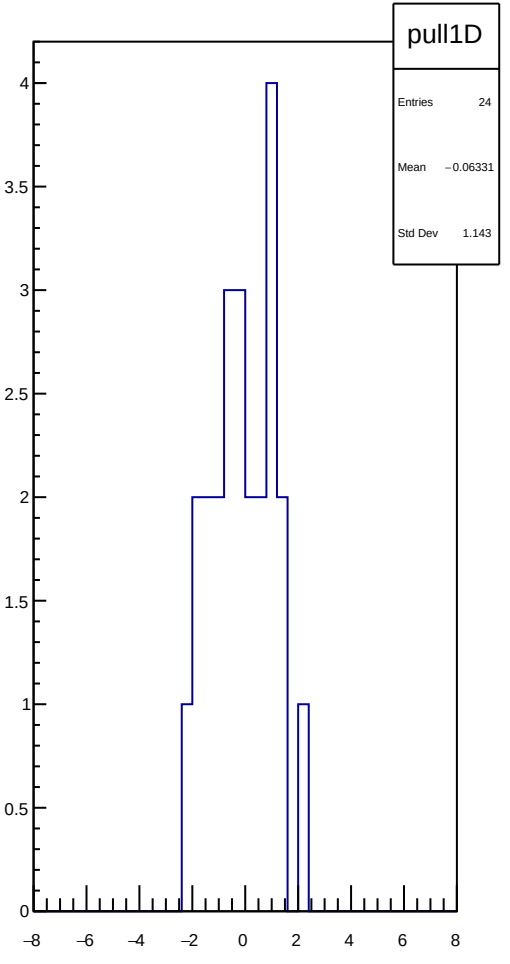
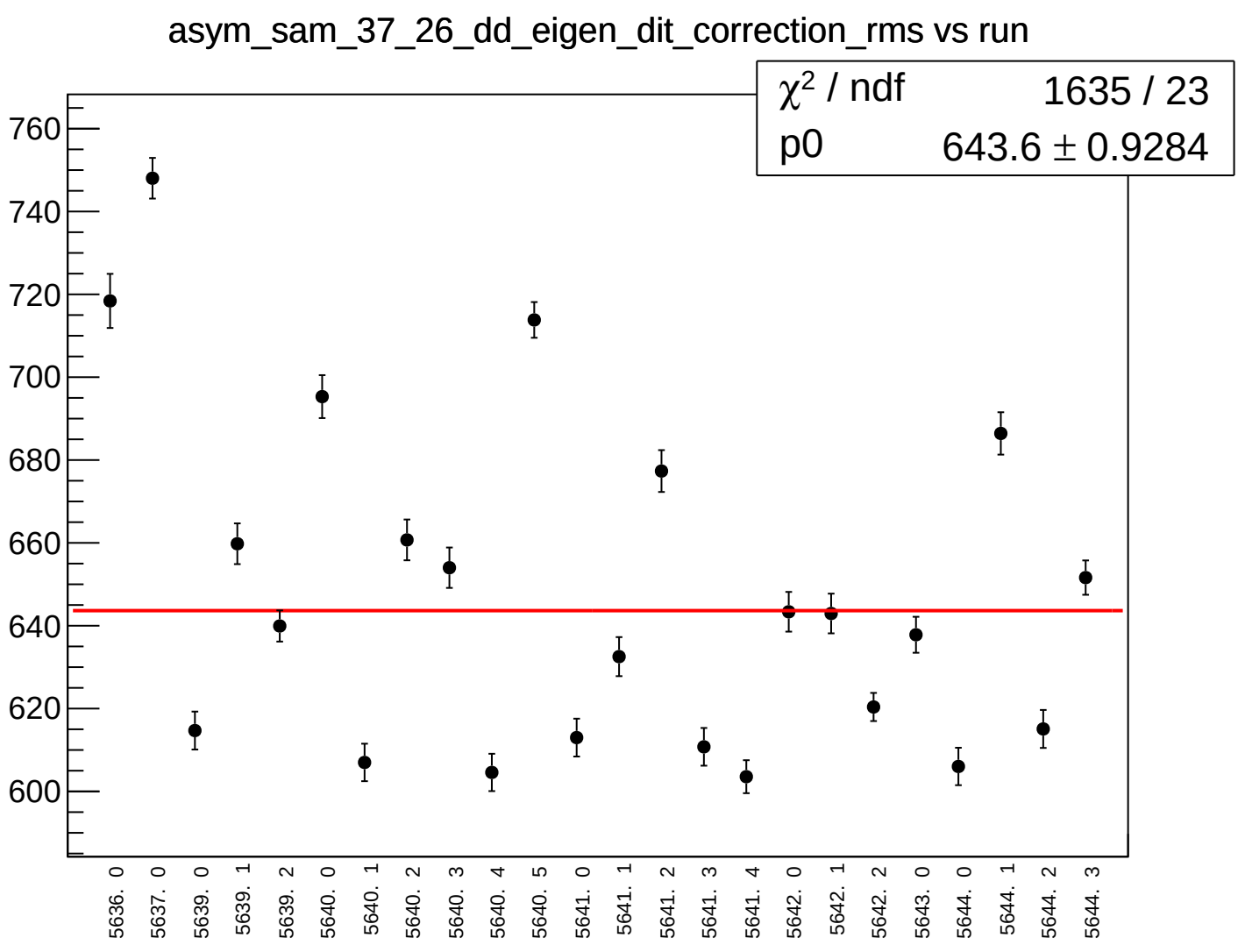
5644. 2
5644. 3

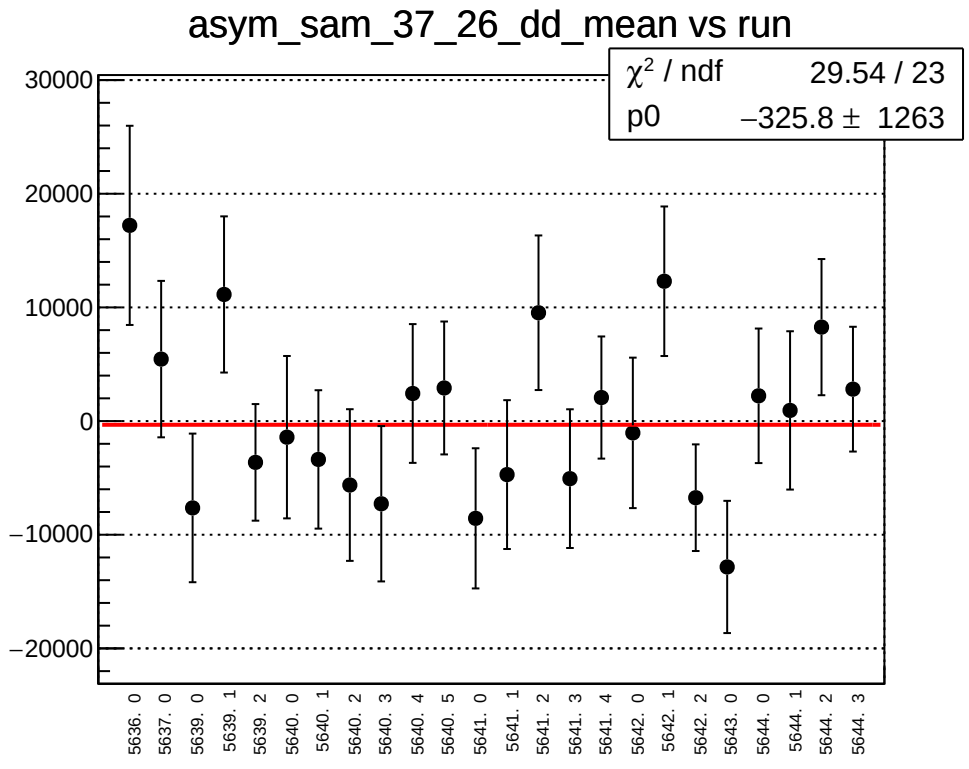

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 28.89 / 23
p0 −13.92 ± 208.6
3000
2000
1000
0
−1000
−2000
−3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 1.079
Std Dev 0
pull1D
Entries 24
Mean −0.03955
Std Dev 1.096

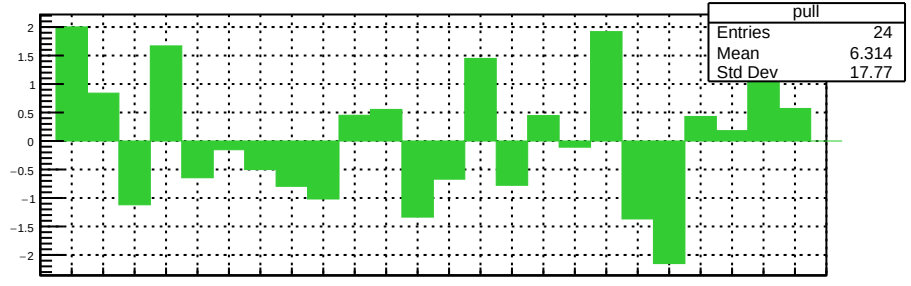

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 1460 / 23
p0 102.3 ± 0.1475
115
110
105
100
95
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

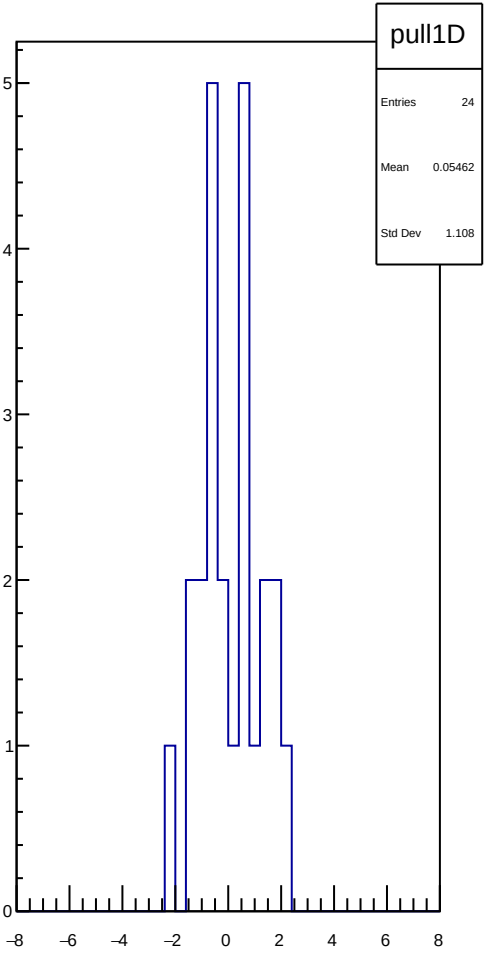

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 31.46 / 23
p0 366.7 ± 1313
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 5.882
Std Dev 16.15
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

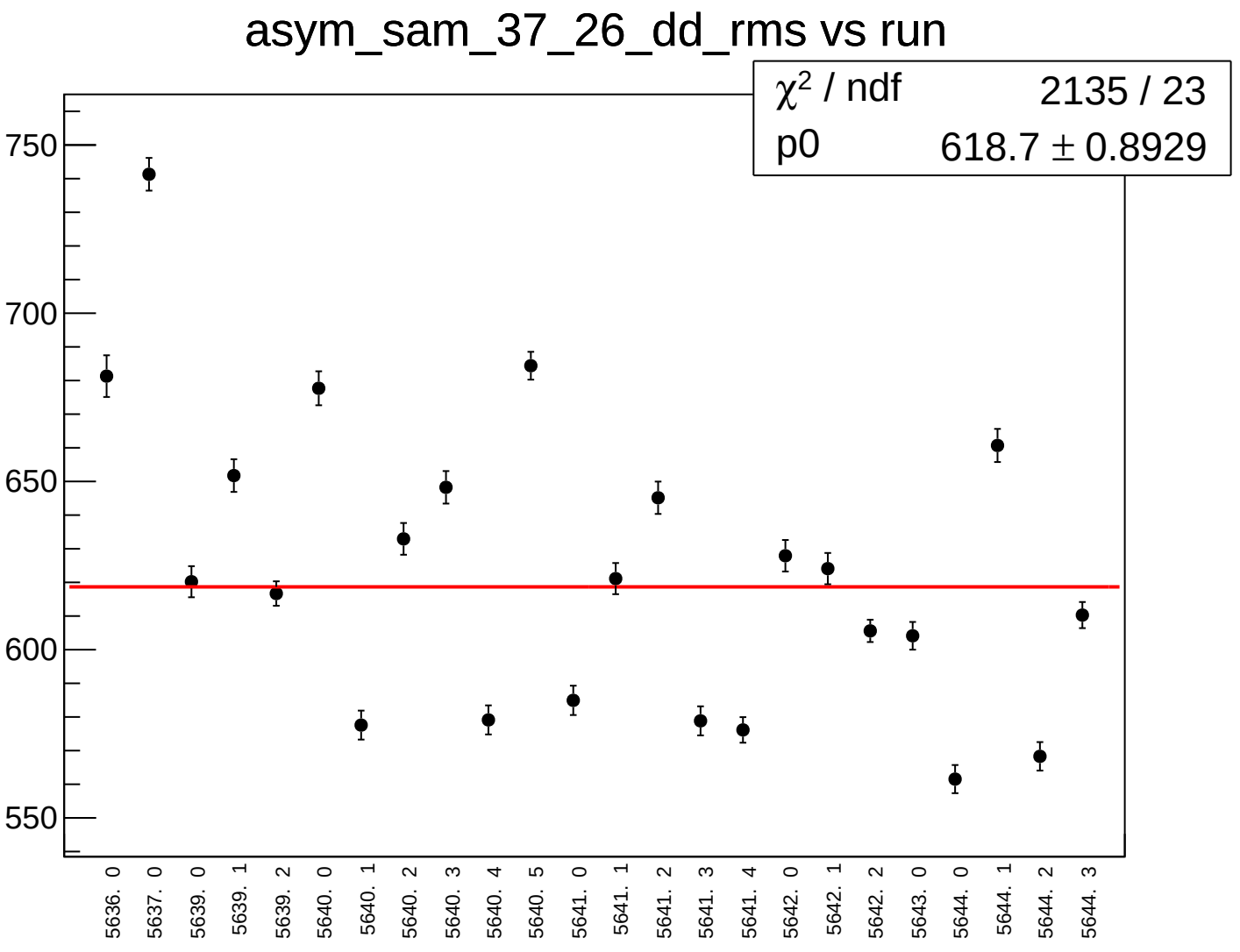

pull1D
Entries 24
Mean −0.06331
Std Dev 1.143
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

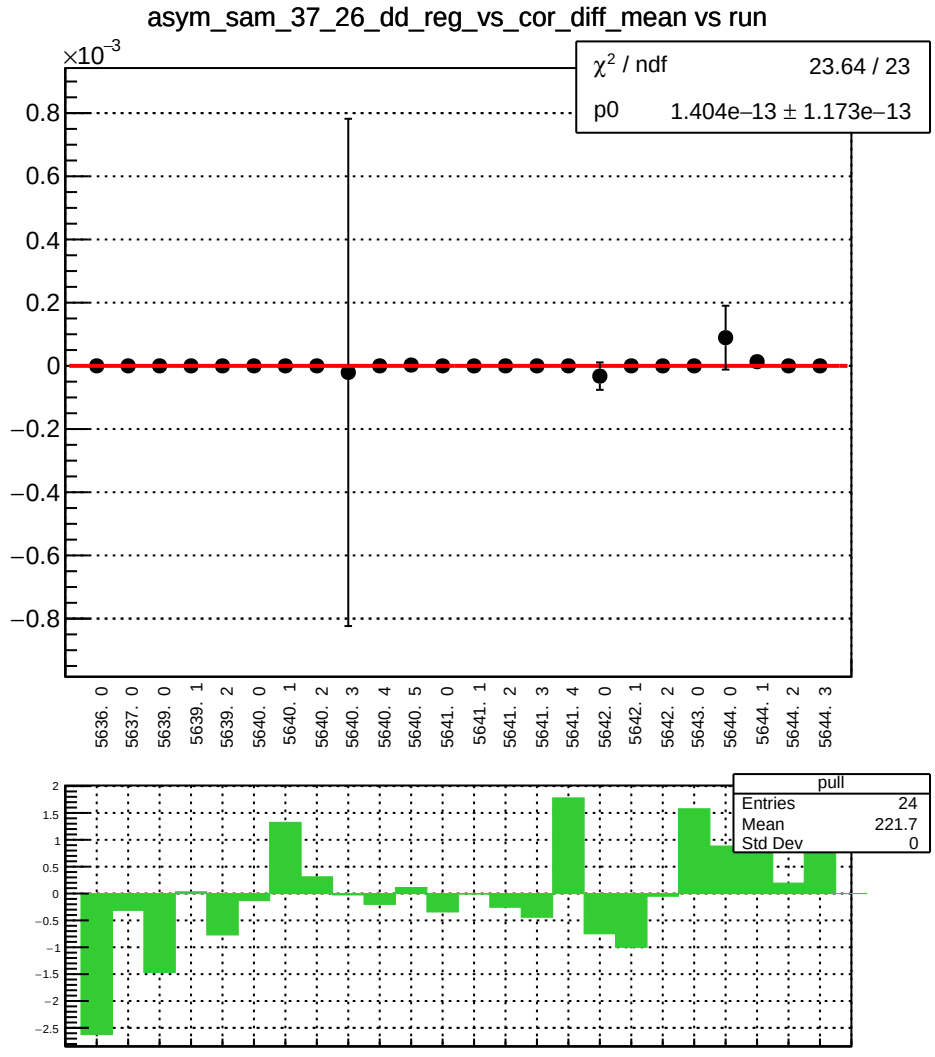

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1635 / 23
p0 643.6 ± 0.9284
760
740
720
700
680
660
640
620
600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

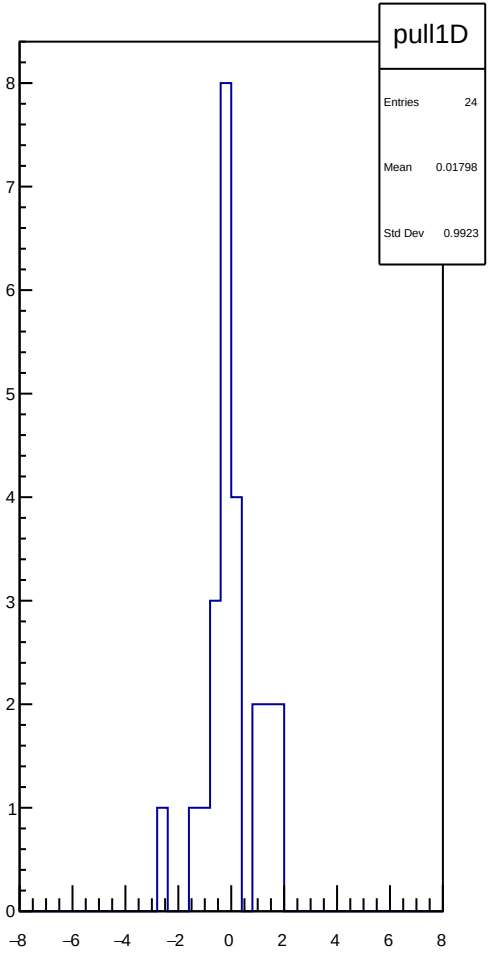

asym_sam_37_26_dd_mean vs run
χ² / ndf 29.54 / 23
p0 −325.8 ± 1263
30000
20000
10000
0
−10000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

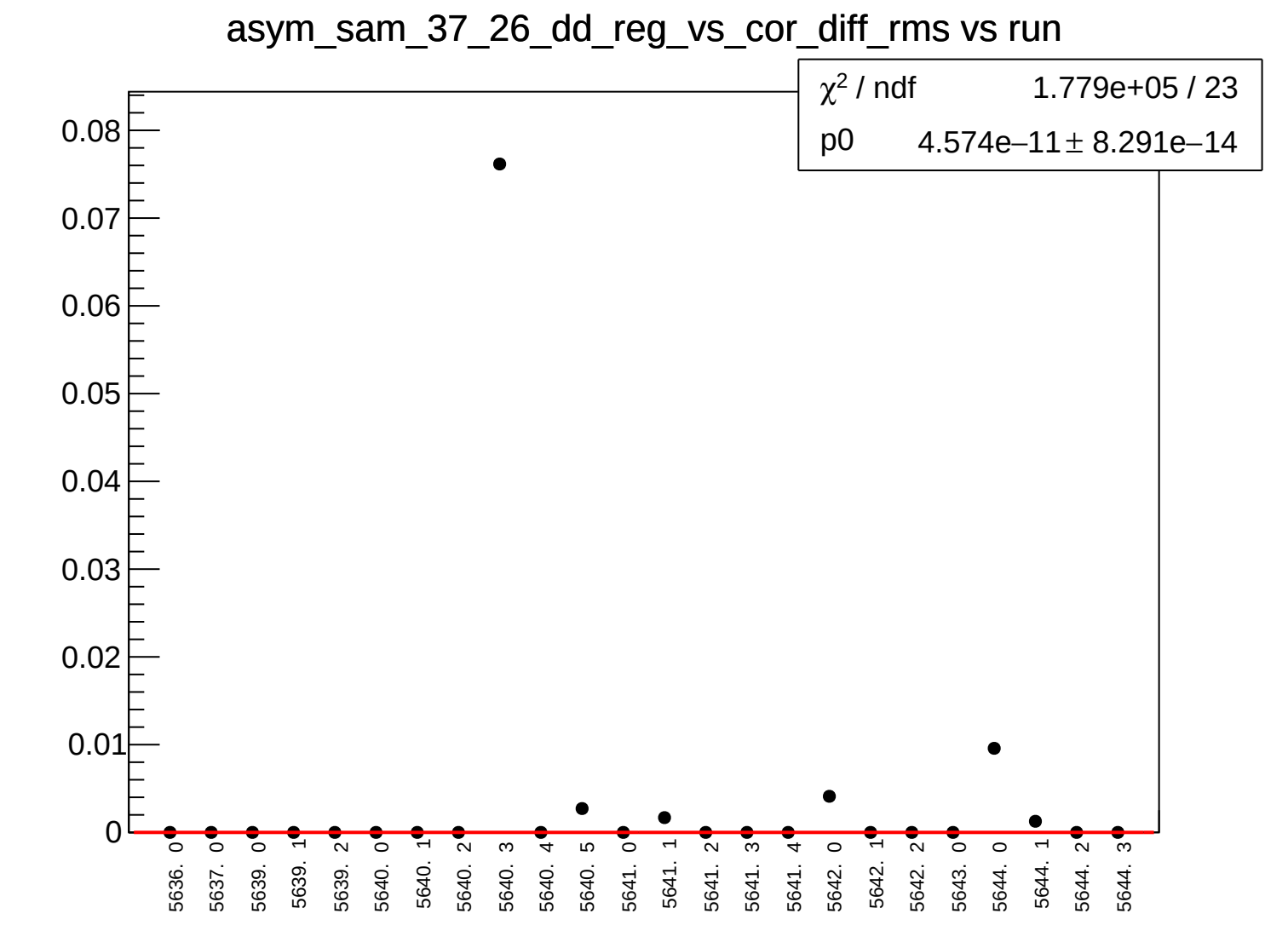

pull
Entries 24
Mean 6.314
Std Dev 17.77
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

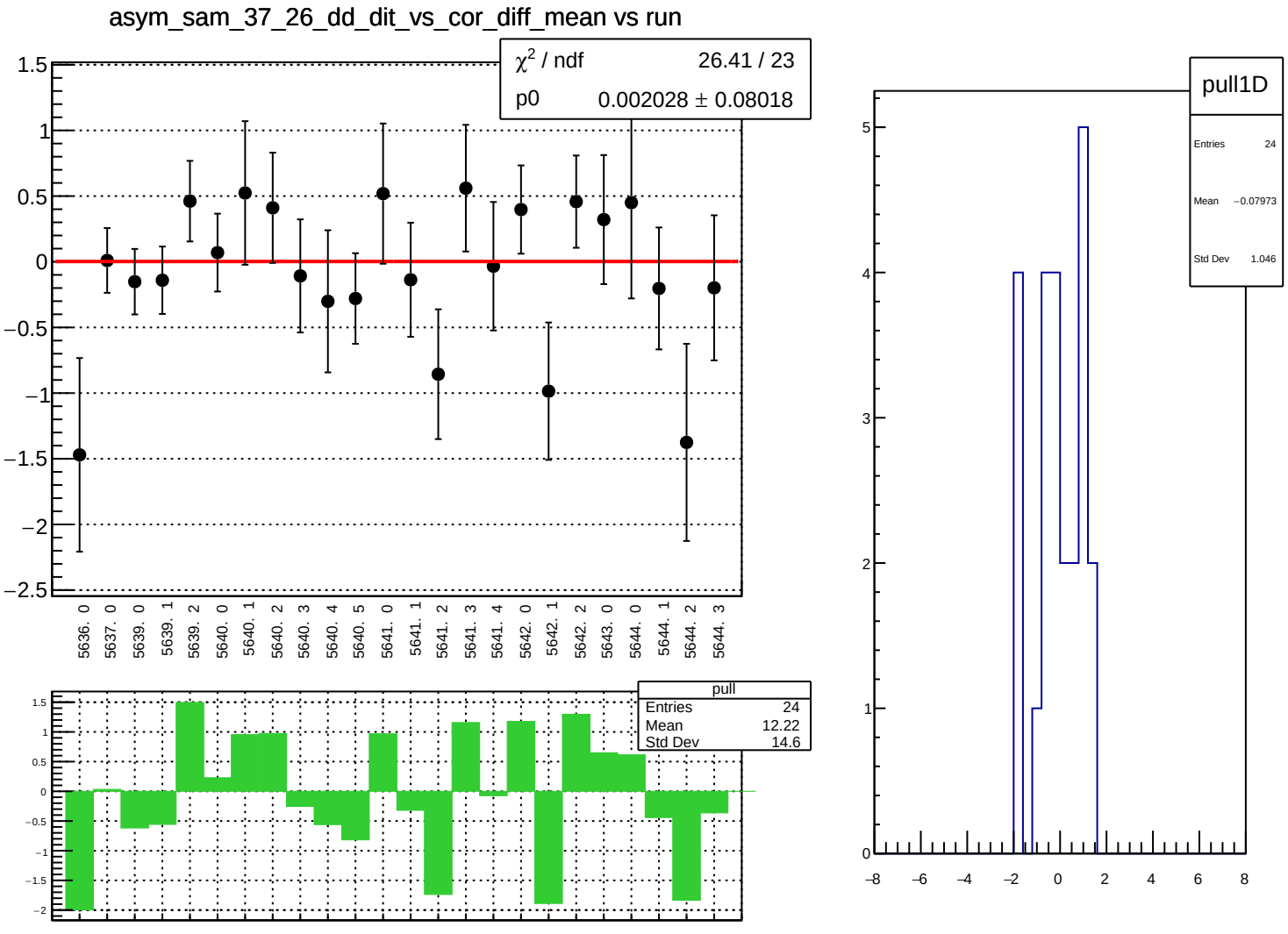

pull1D
Entries 24
Mean 0.05462
Std Dev 1.108
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

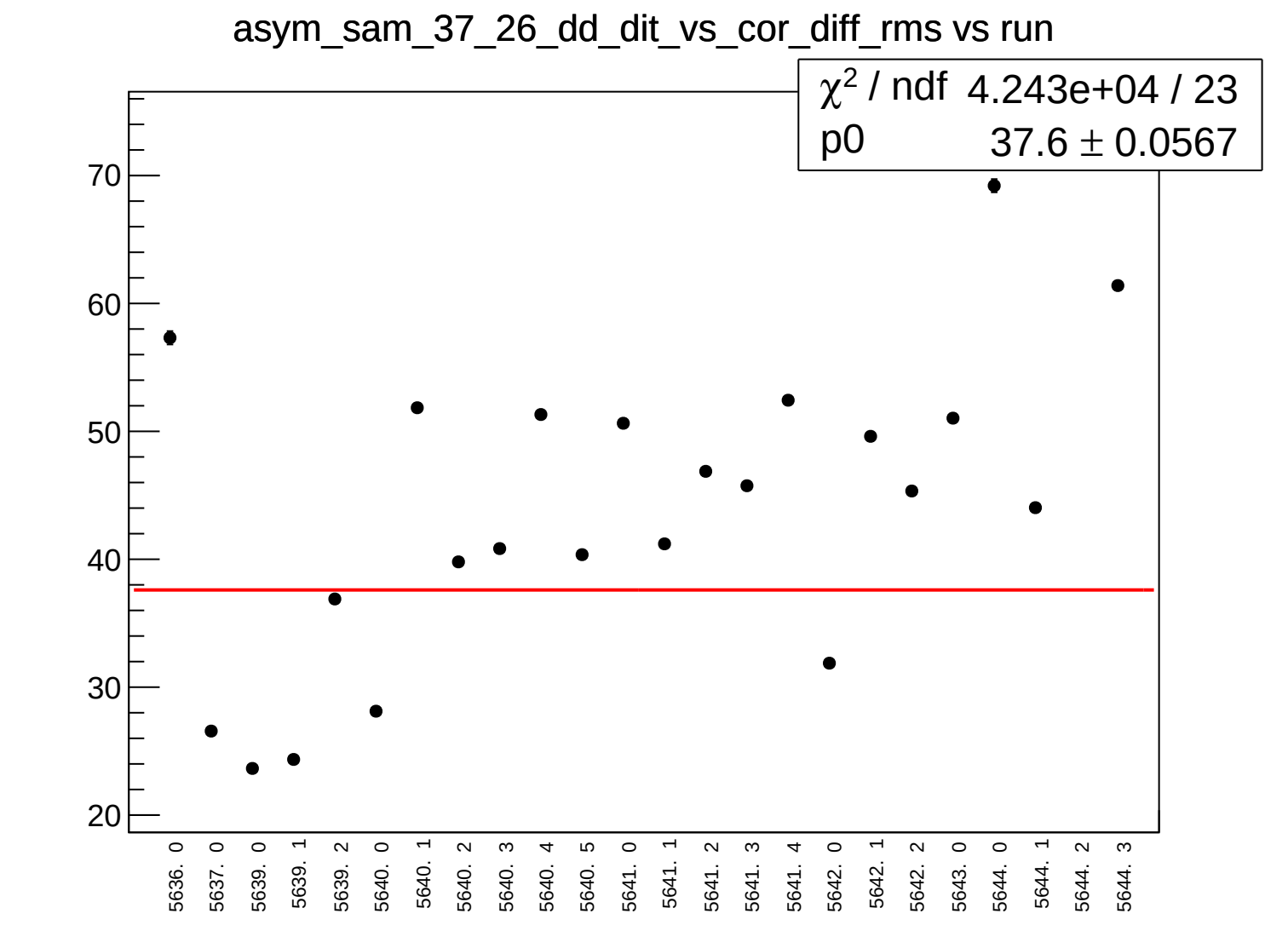

asym_sam_37_26_dd_rms vs run
χ² / ndf 2135 / 23
p0 618.7 ± 0.8929
750
700
650
600
550
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

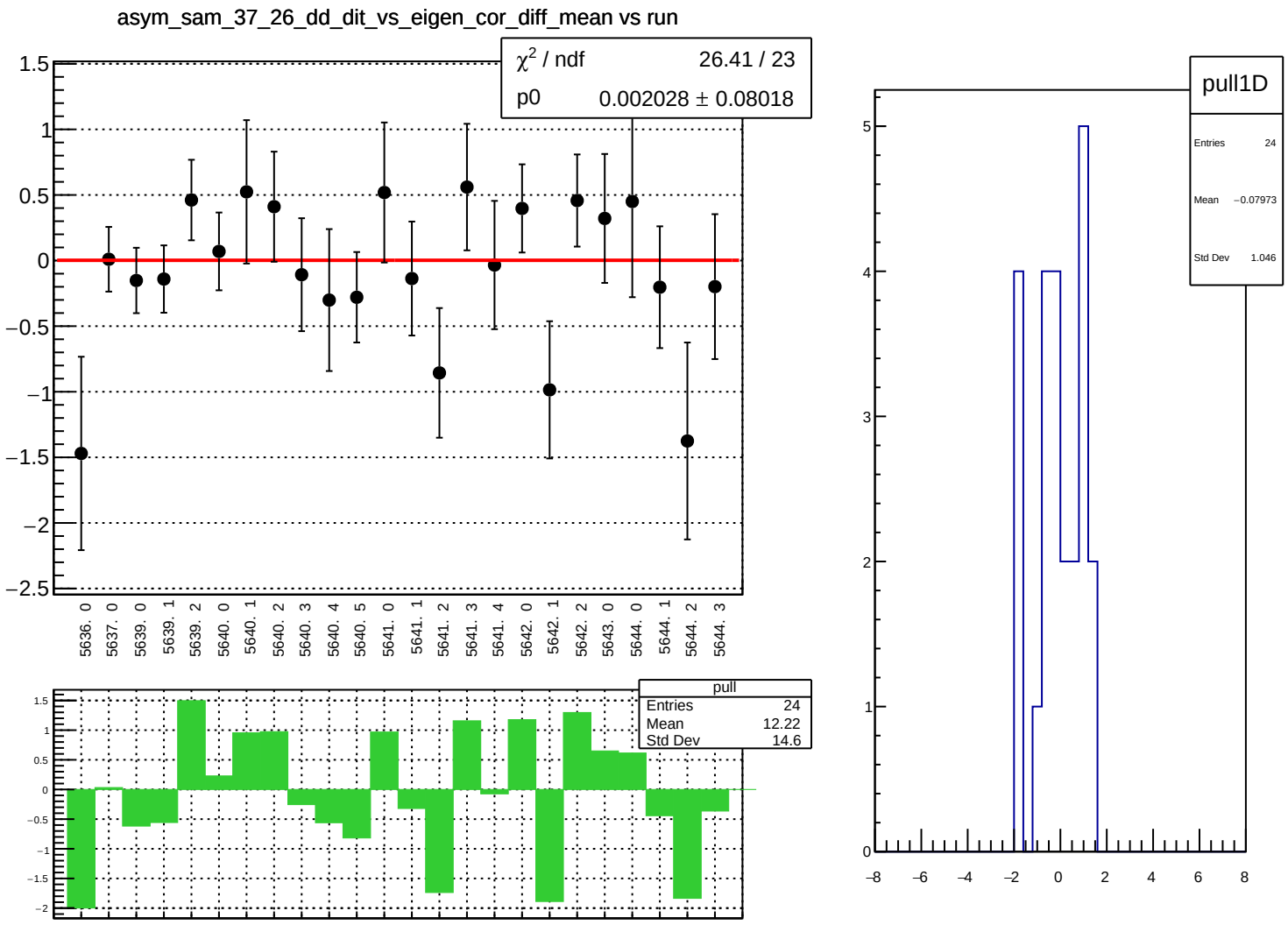

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 23.64 / 23
p0 1.404e−13 ± 1.173e−13
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 221.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

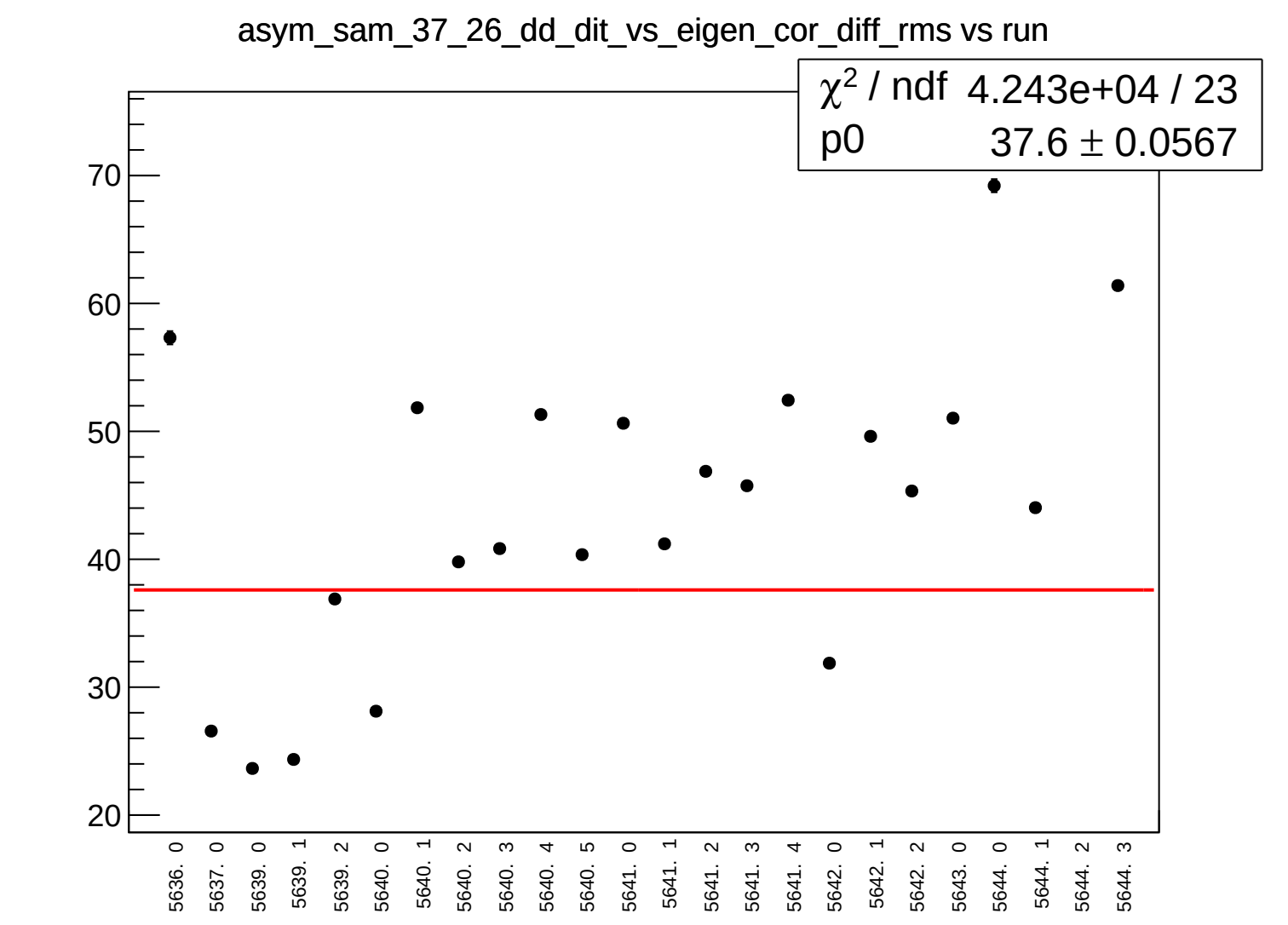

pull1D
Entries 24
Mean 0.01798
Std Dev 0.9923
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

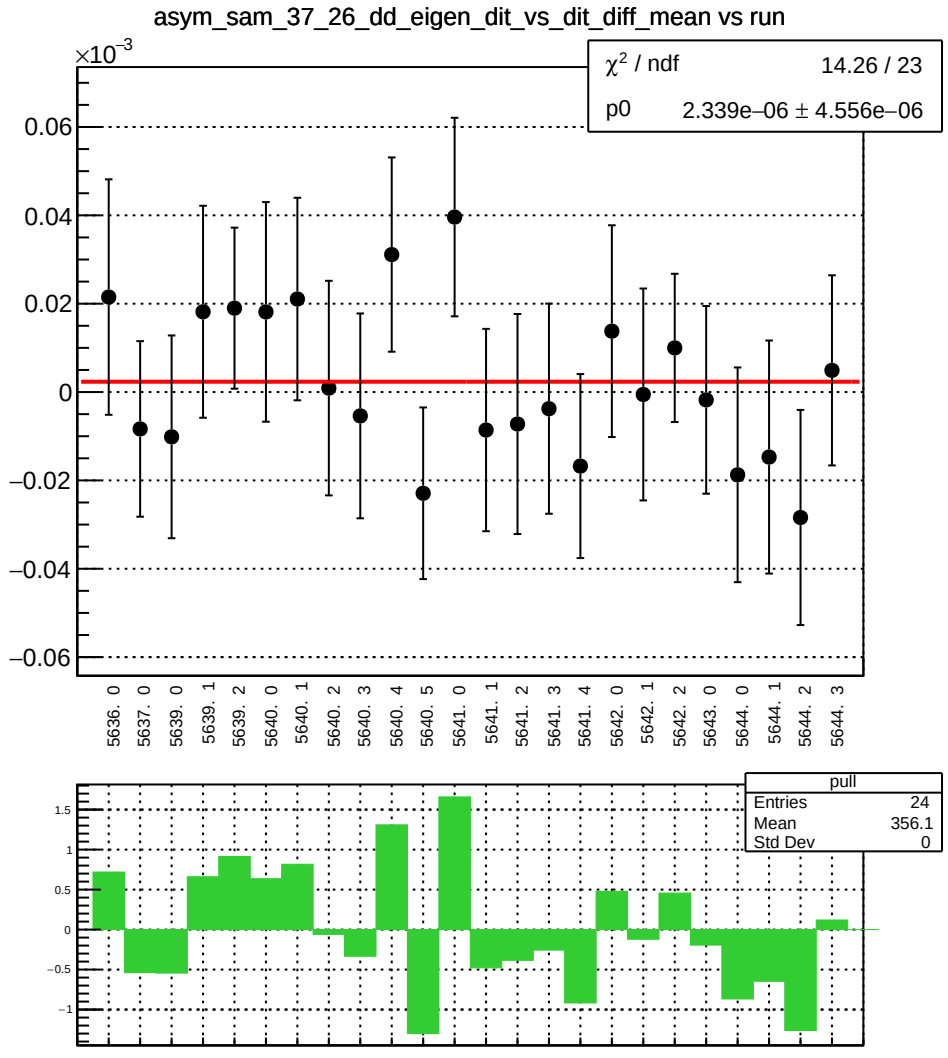

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.779e+05 / 23
p0 4.574e−11 ± 8.291e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

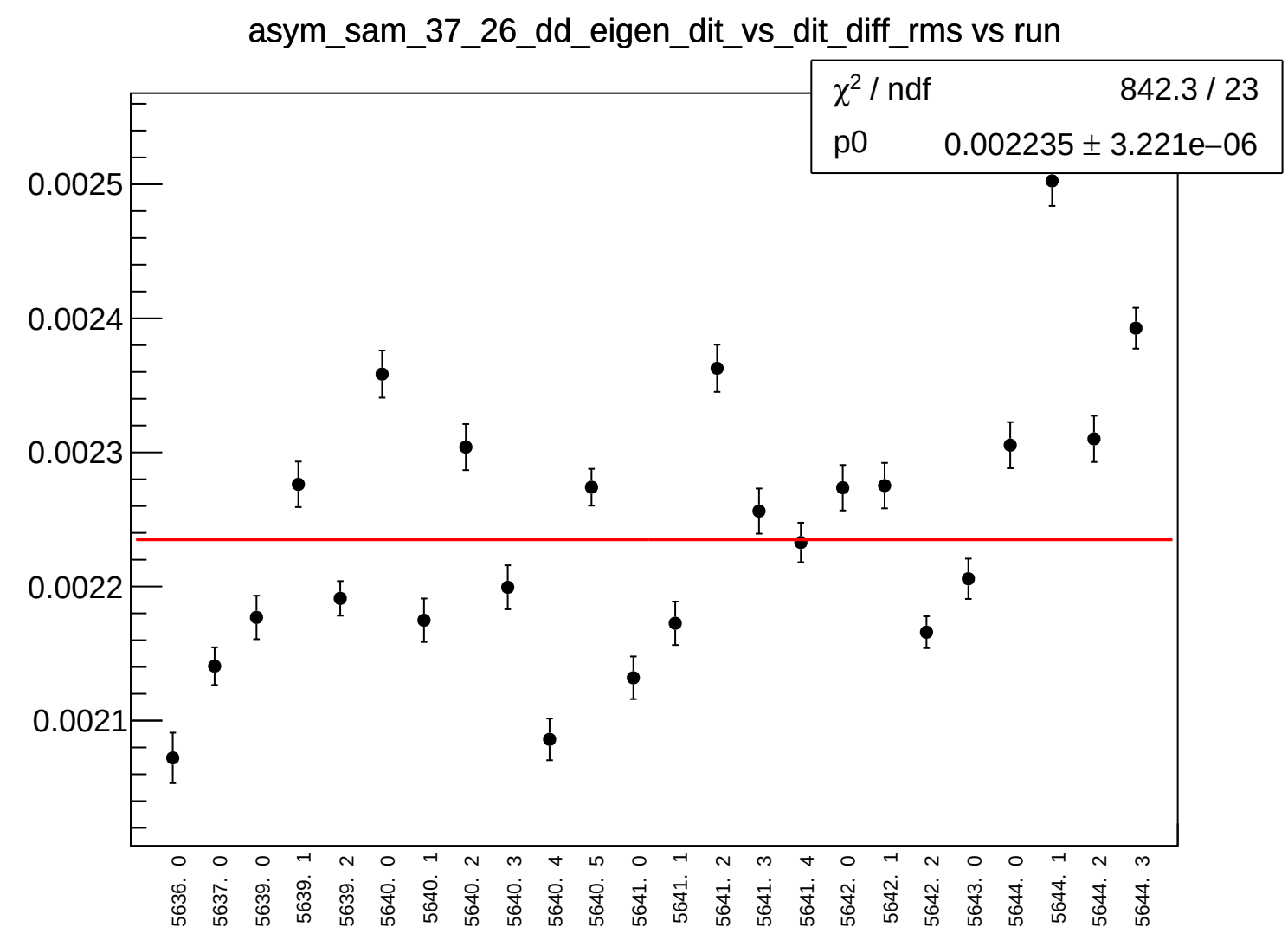

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 26.41 / 23
p0 0.002028 ± 0.08018
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 12.22
Std Dev 14.6
pull1D
Entries 24
Mean −0.07973
Std Dev 1.046
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

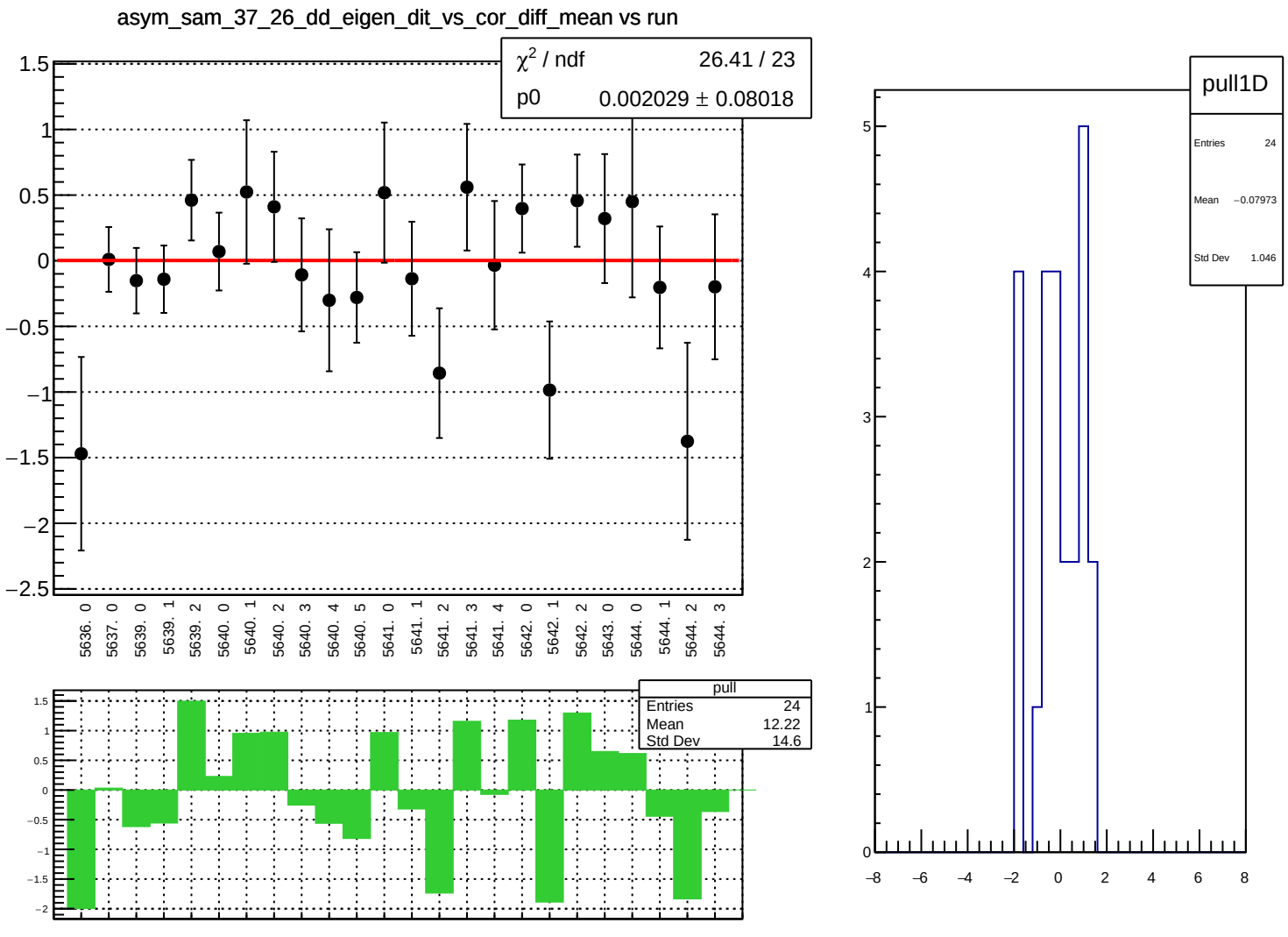

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.243e+04 / 23
p0 37.6 ± 0.0567
70
60
50
40
30
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

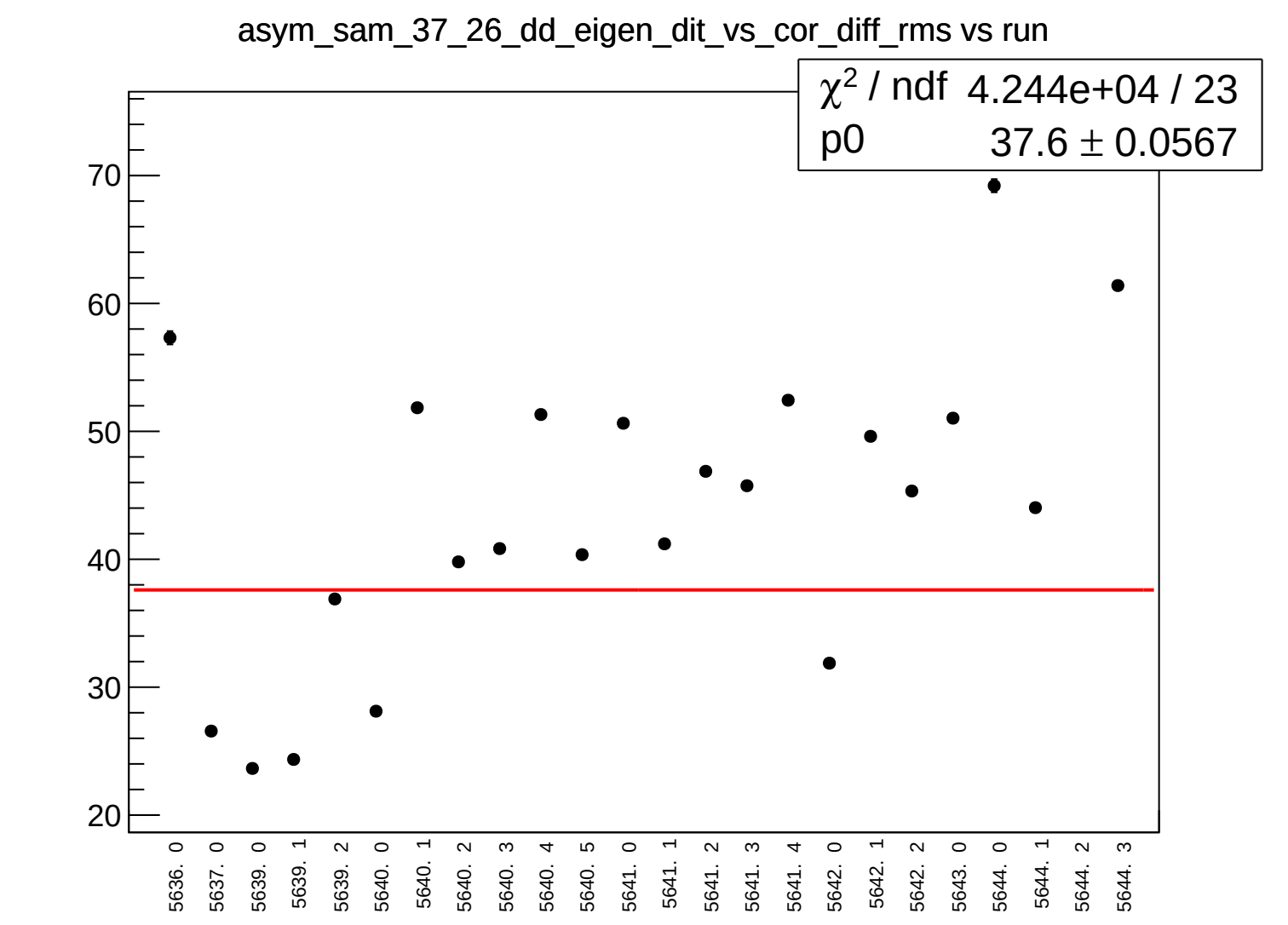

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 26.41 / 23
p0 0.002028 ± 0.08018
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 12.22
Std Dev 14.6
pull1D
Entries 24
Mean −0.07973
Std Dev 1.046
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

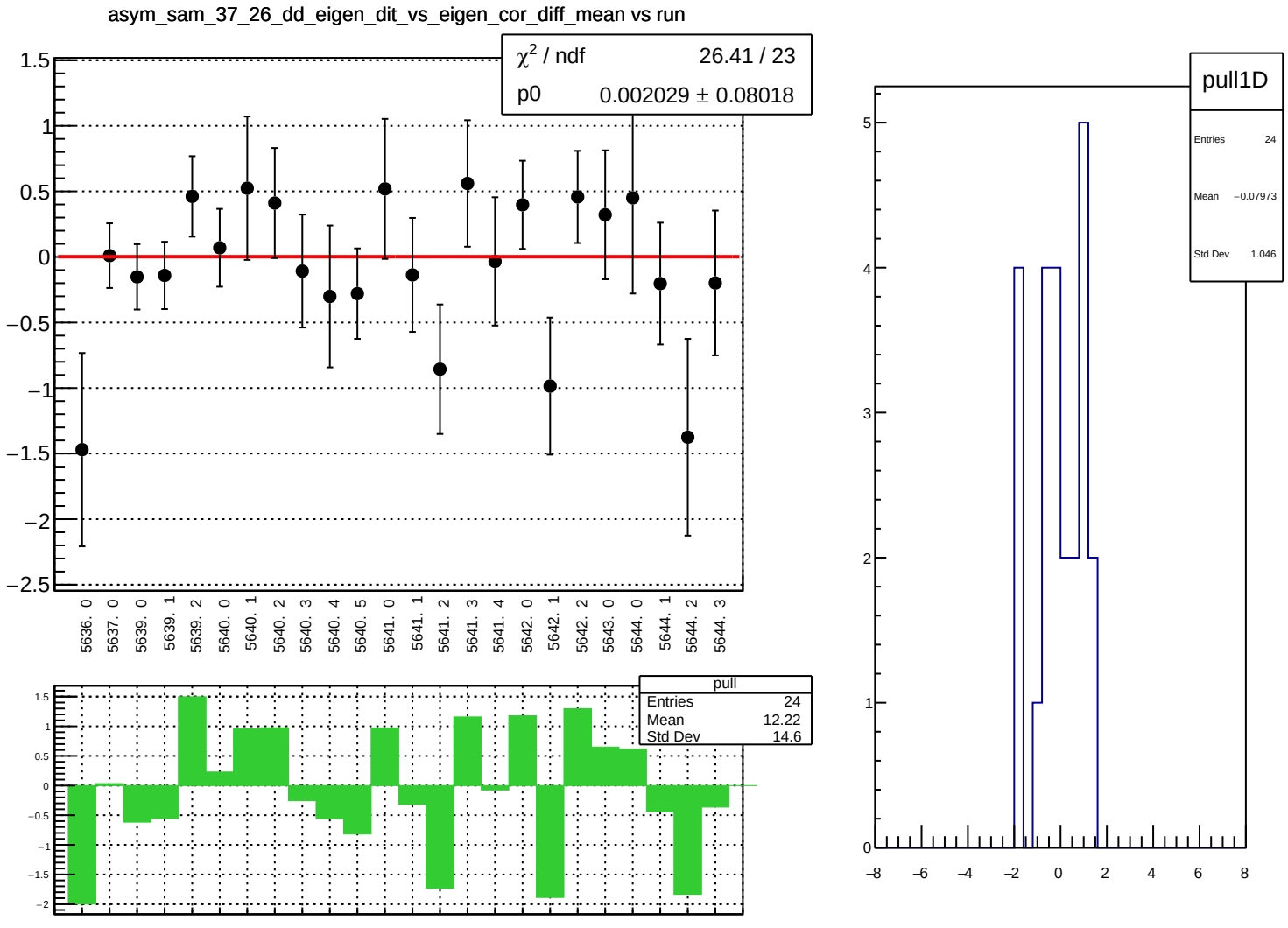

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.243e+04 / 23
p0 37.6 ± 0.0567
70
60
50
40
30
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

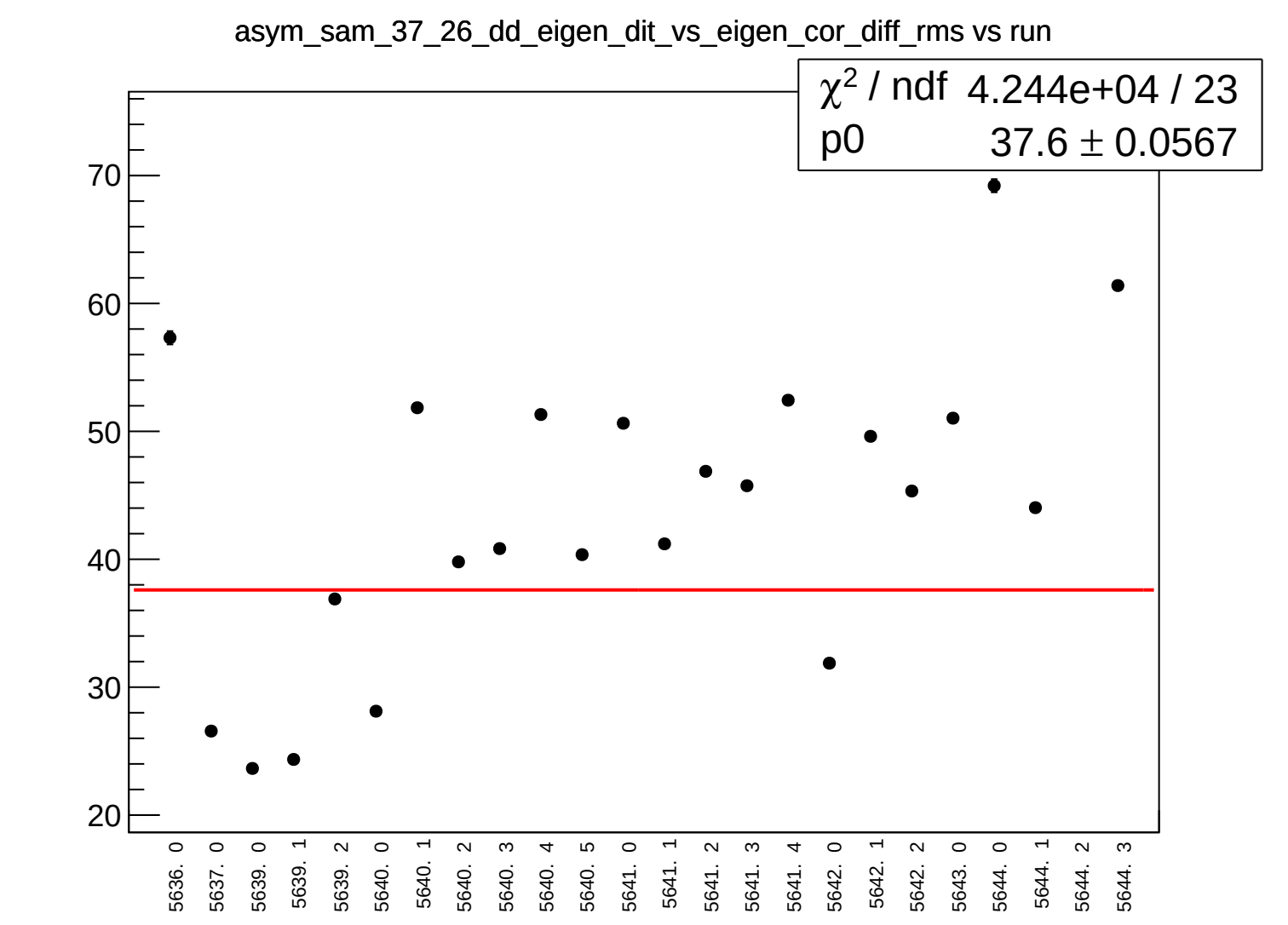

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 14.26 / 23
p0 2.339e−06 ± 4.556e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 356.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.005609
Std Dev 0.7708
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

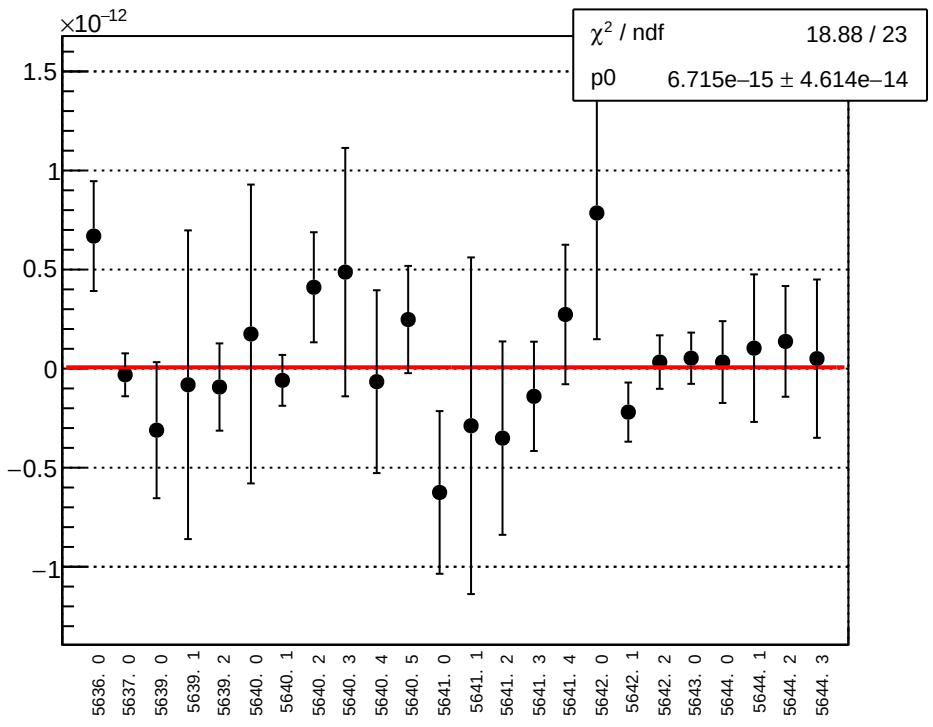

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 842.3 / 23
p0 0.002235 ± 3.221e−06
0.0025
0.0024
0.0023
0.0022
0.0021
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

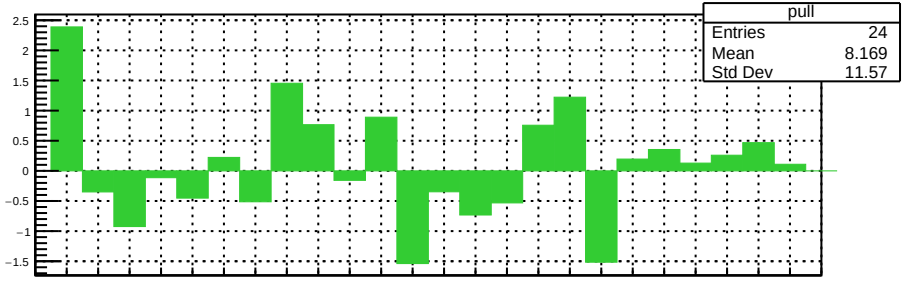

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 26.41 / 23
p0 0.002029 ± 0.08018
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 12.22
Std Dev 14.6
pull1D
Entries 24
Mean −0.07973
Std Dev 1.046
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

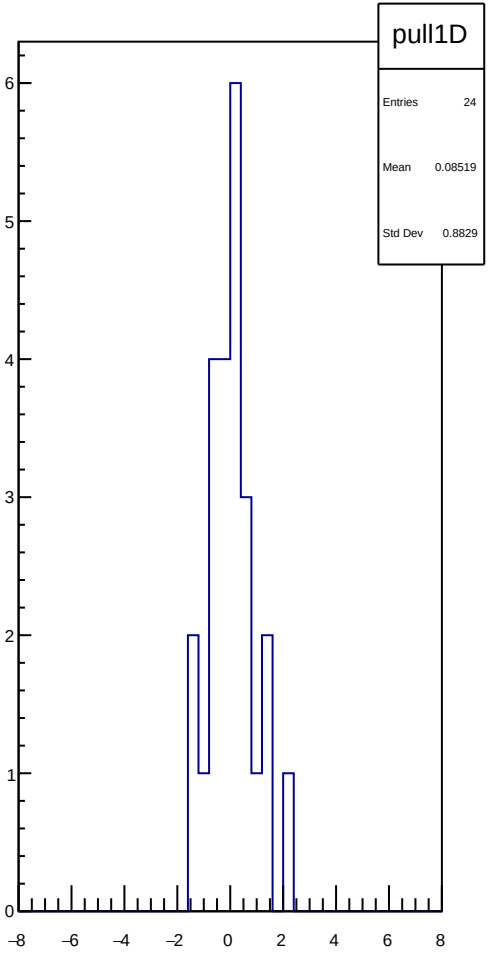

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.244e+04 / 23
p0 37.6 ± 0.0567
70
60
50
40
30
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

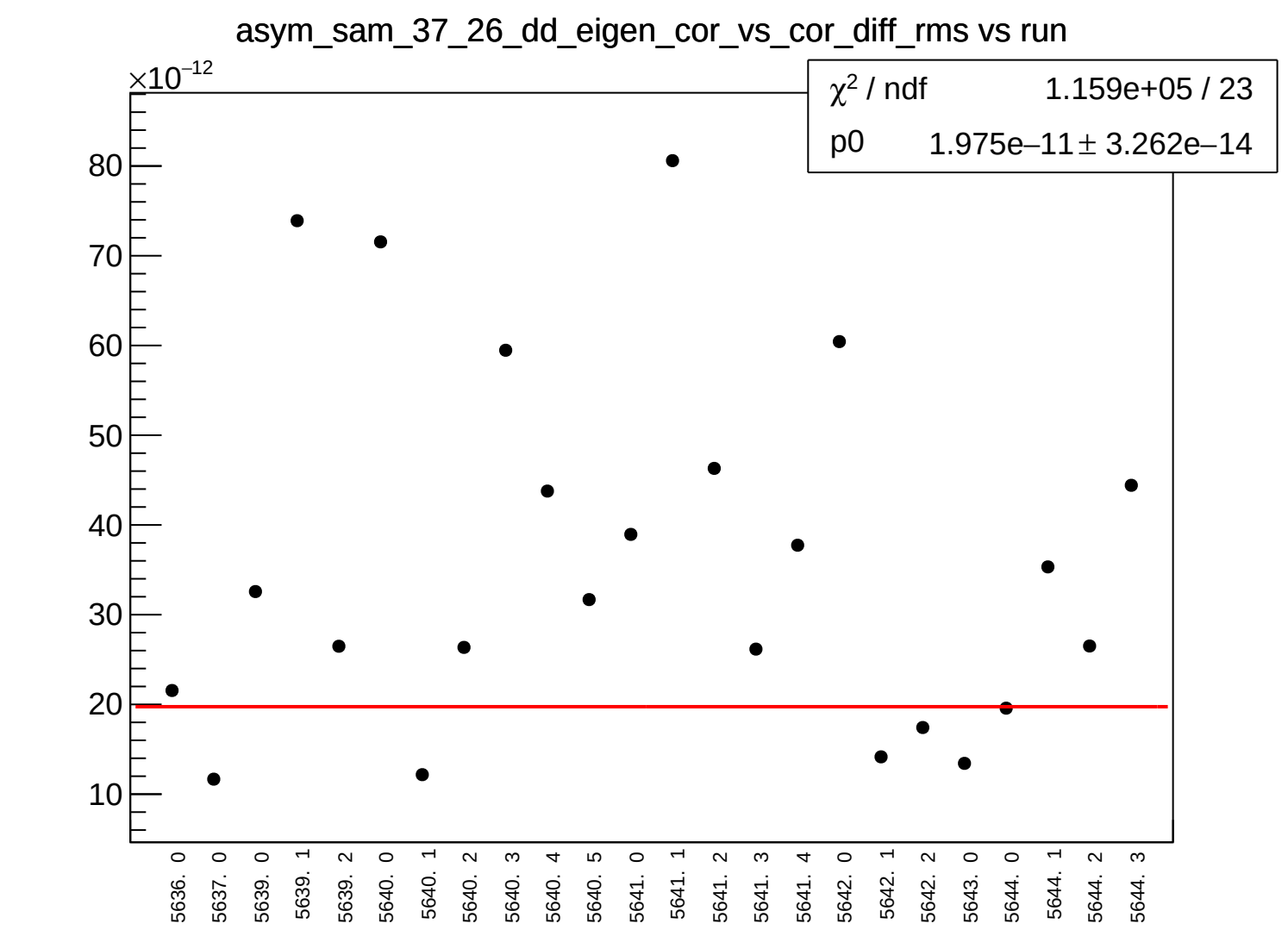

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 26.41 / 23
p0 0.002029 ± 0.08018
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 12.22
Std Dev 14.6
pull1D
Entries 24
Mean −0.07973
Std Dev 1.046
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

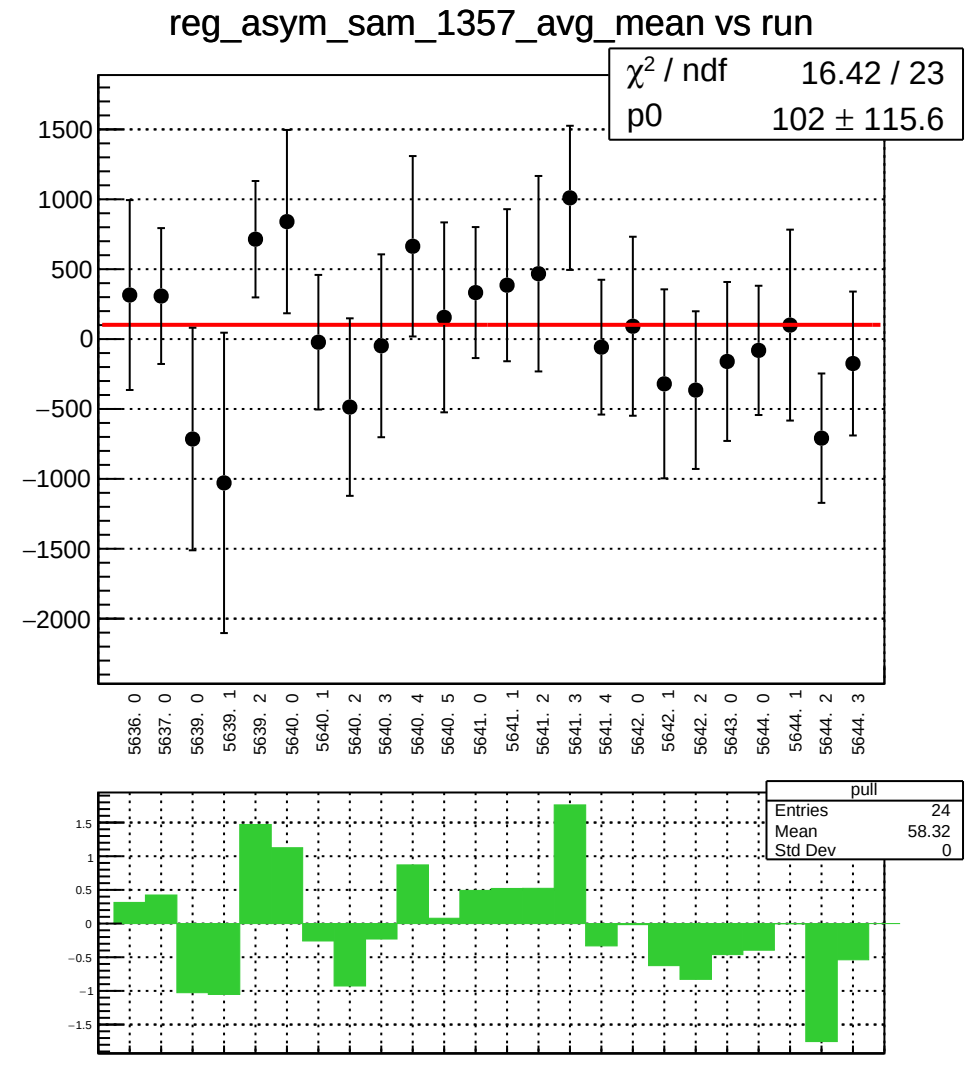

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.244e+04 / 23
p0 37.6 ± 0.0567
70
60
50
40
30
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

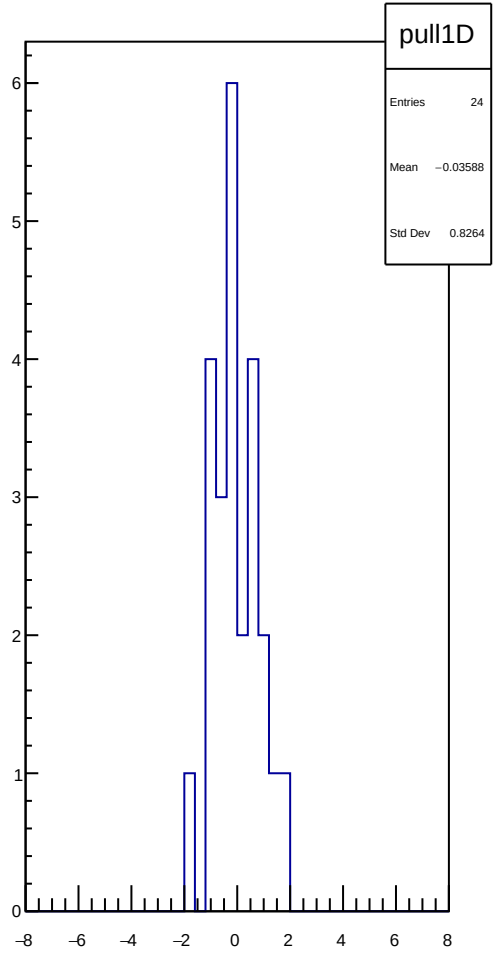

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 18.88 / 23
p0 6.715e−15 ± 4.614e−14
1.5
1
0.5
0
−0.5
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

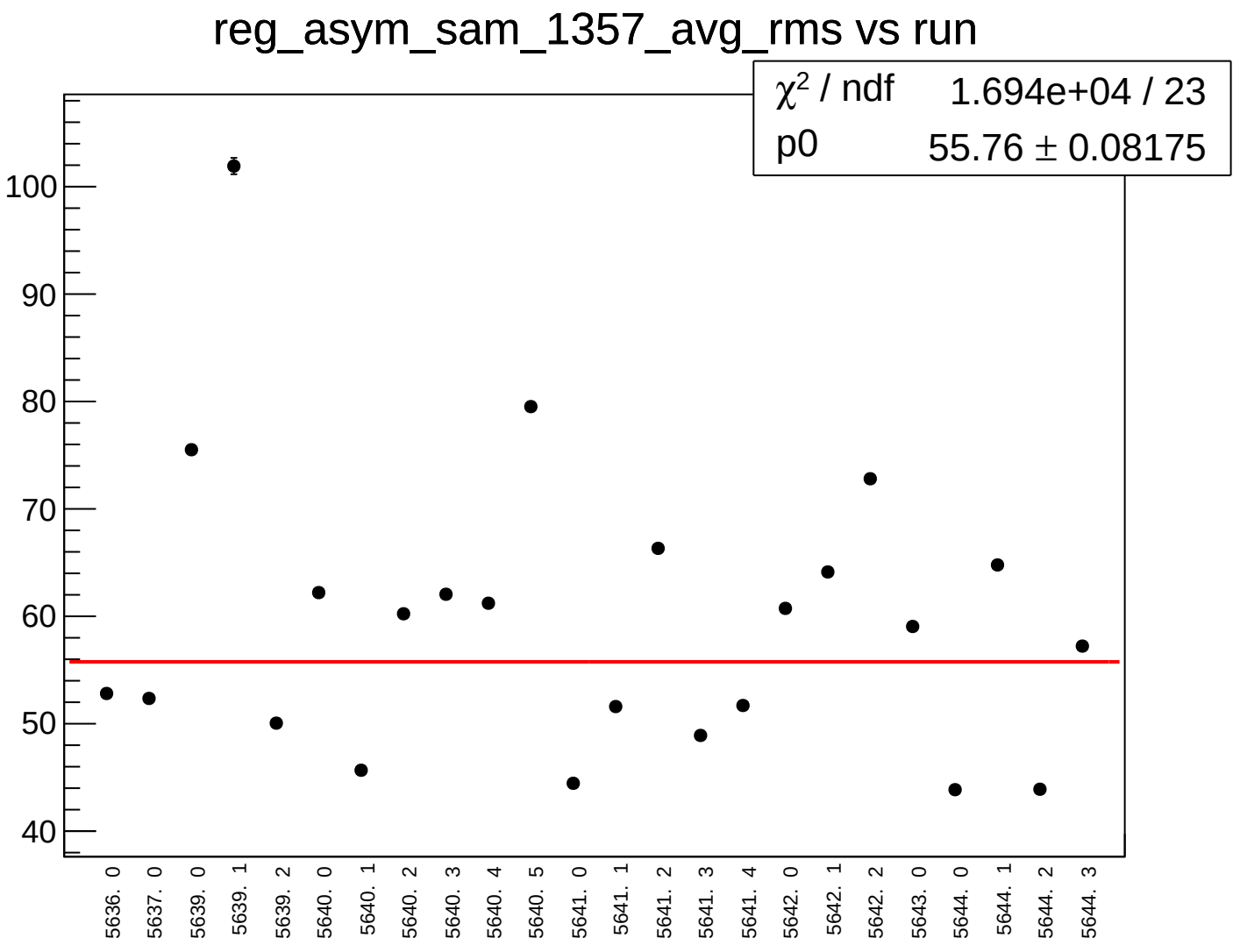

pull
Entries 24
Mean 8.169
Std Dev 11.57
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

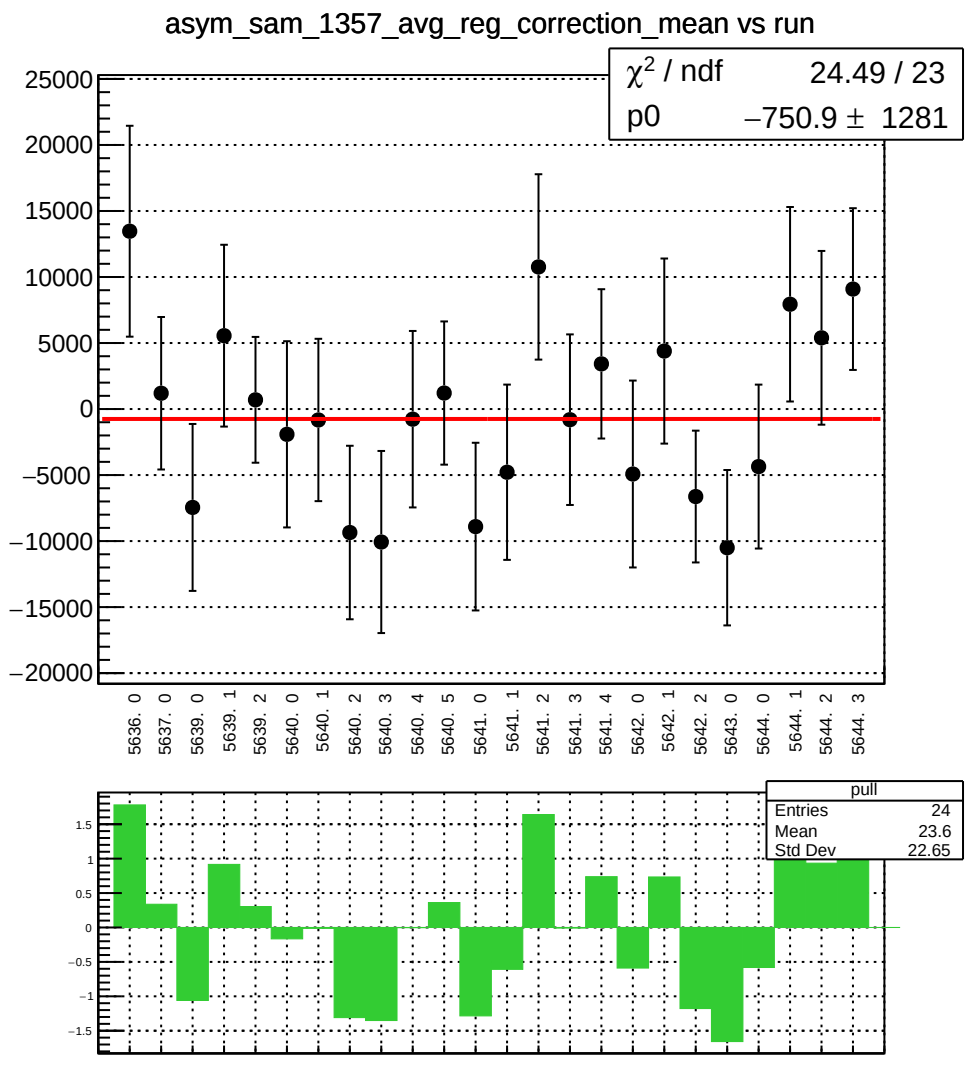

pull1D
Entries 24
Mean 0.08519
Std Dev 0.8829
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

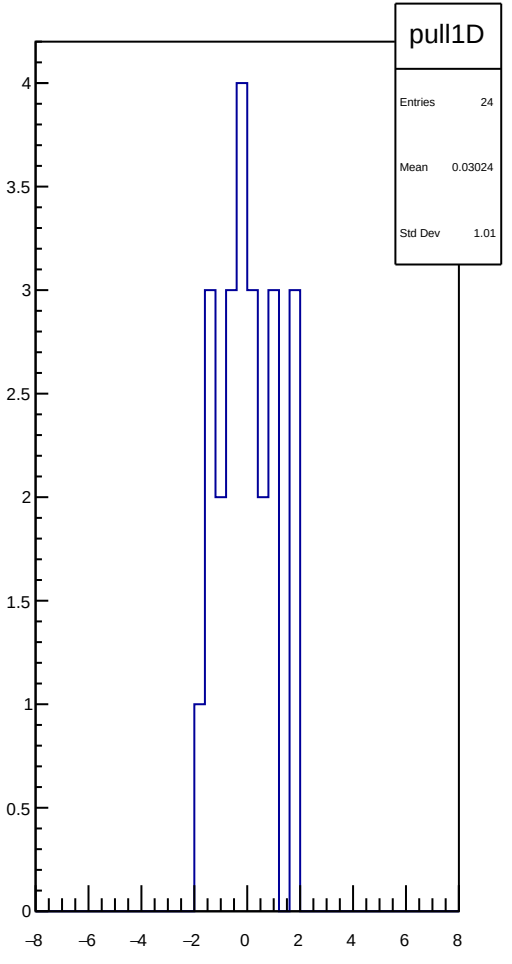

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.159e+05 / 23
p0 1.975e−11 ± 3.262e−14
80
70
60
50
40
30
20
10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

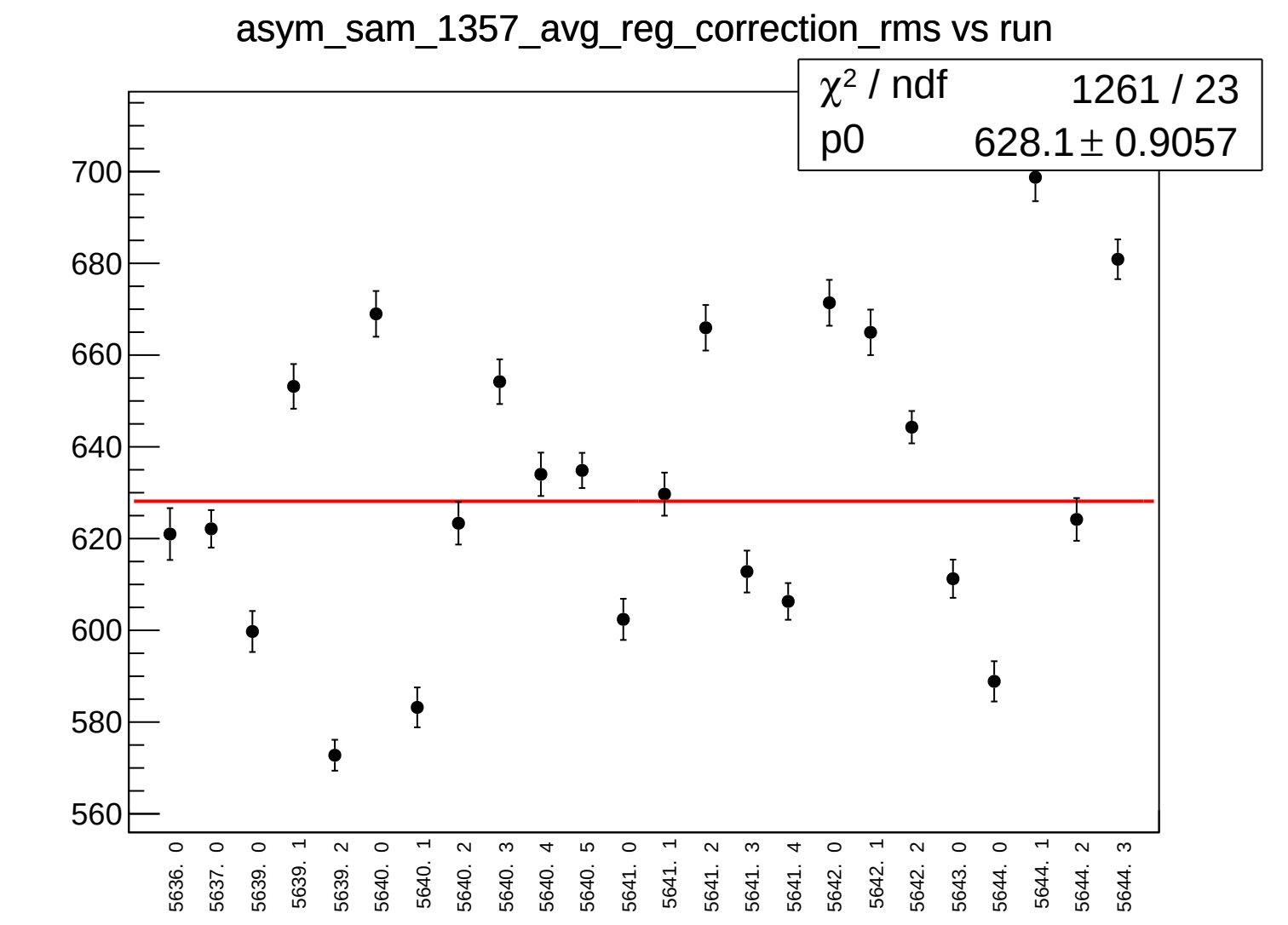

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 16.42 / 23
p0 102 ± 115.6
1500
1000
500
0
−500
−1000
−1500
−2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 58.32
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

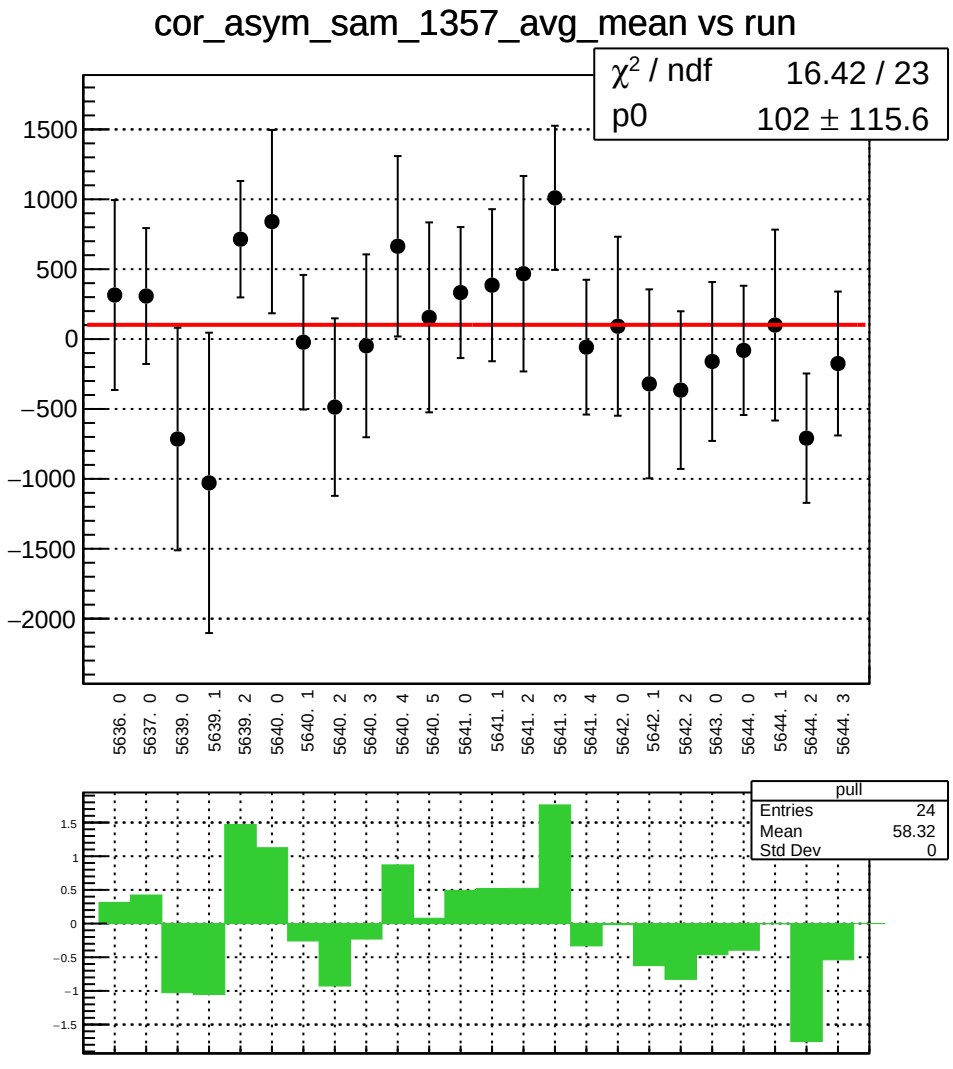

pull1D
Entries 24
Mean −0.03588
Std Dev 0.8264
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

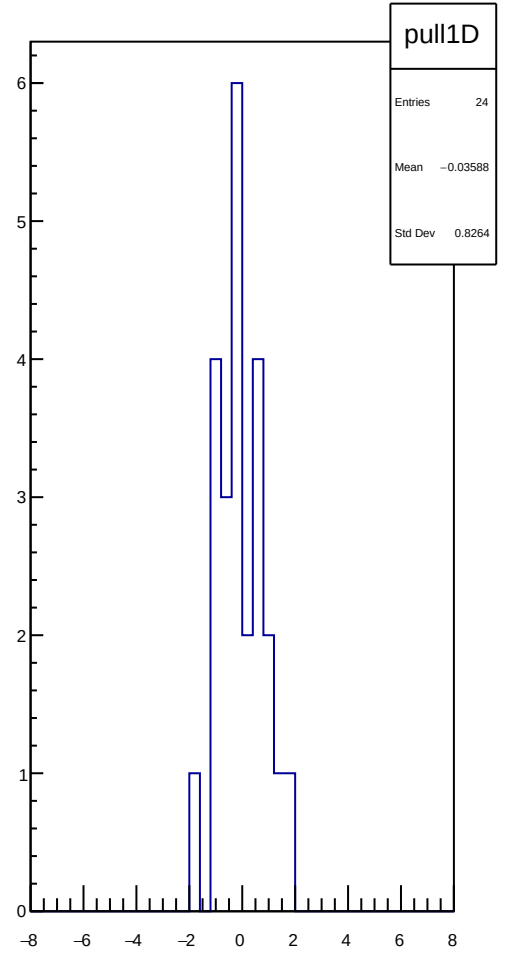

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 1.694e+04 / 23
p0 55.76 ± 0.08175
100
90
80
70
60
50
40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

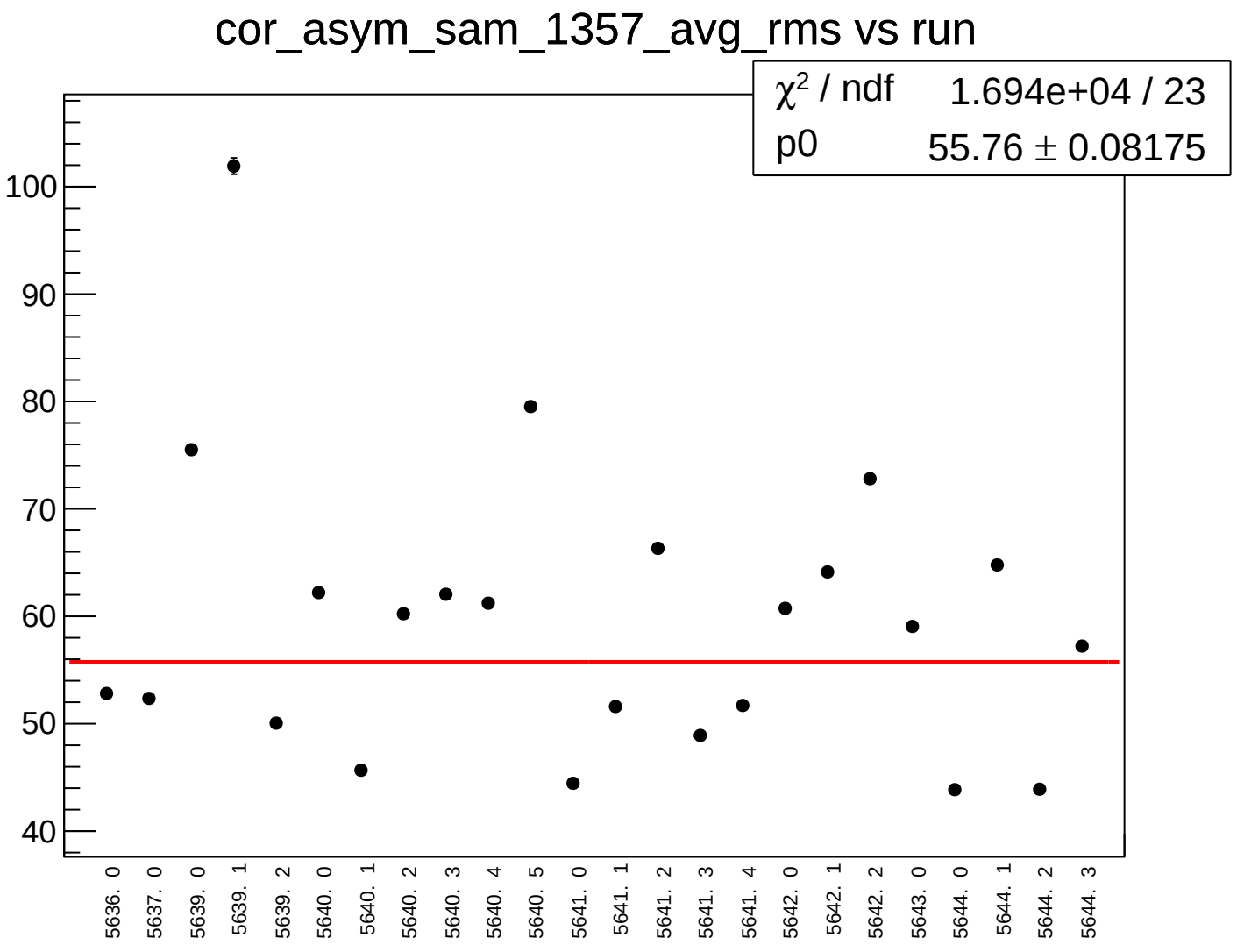

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 24.49 / 23
p0 −750.9 ± 1281
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 23.6
Std Dev 22.65
1.5
1
0.5
0
−0.5
−1
−1.5

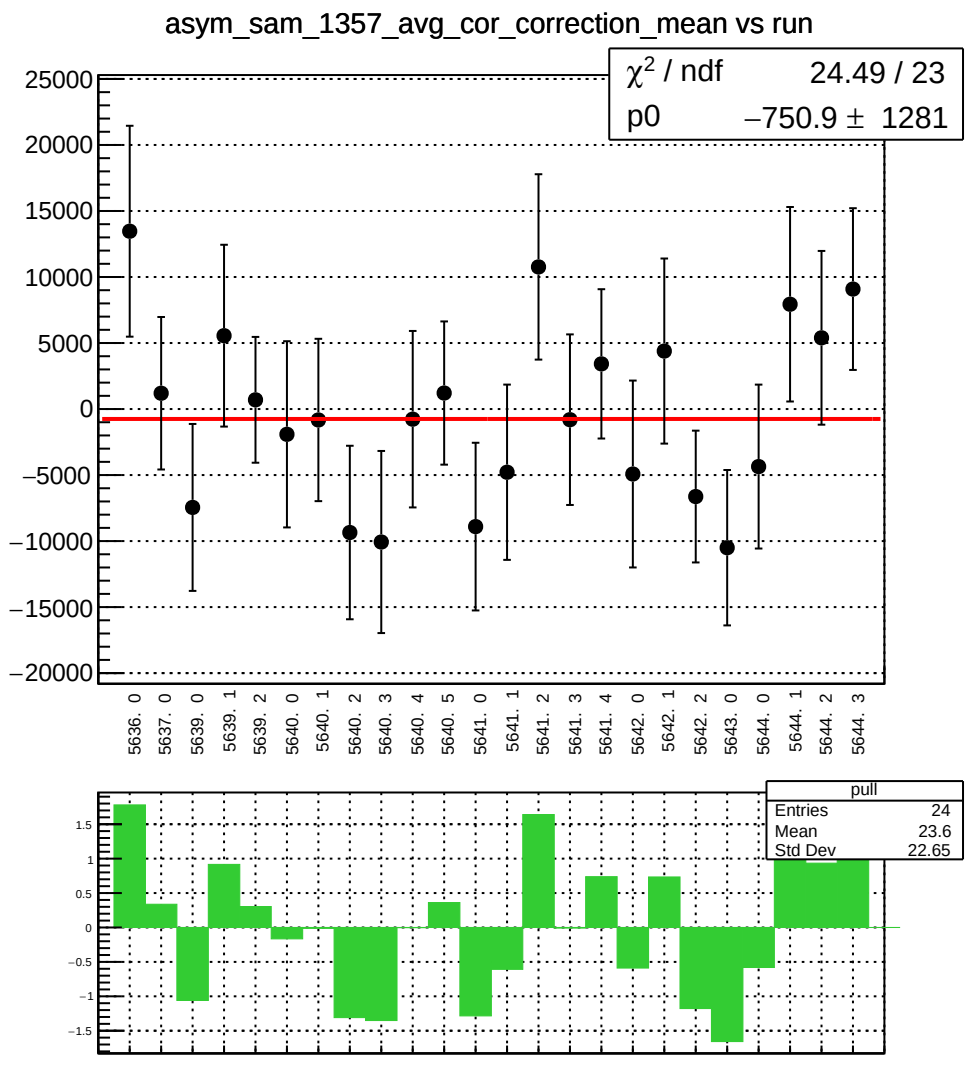

pull1D
Entries 24
Mean 0.03024
Std Dev 1.01
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

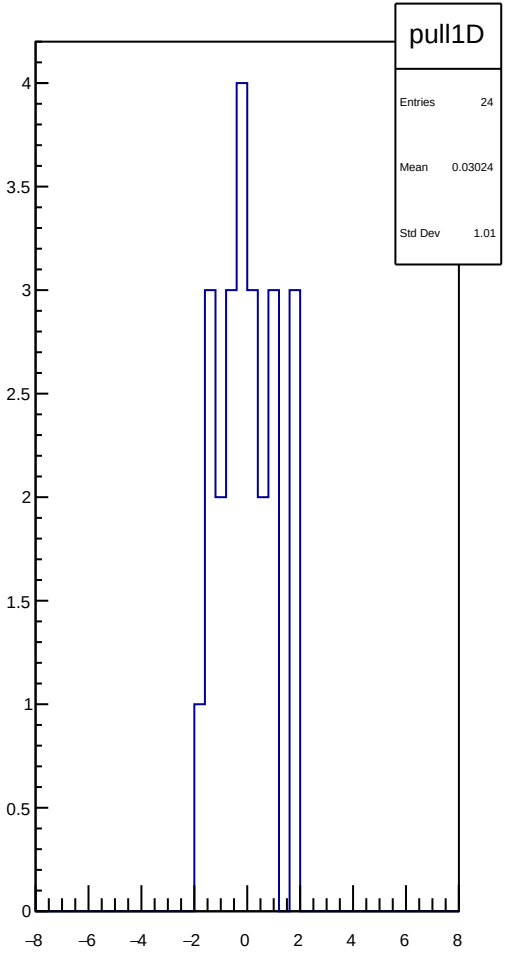

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 1261 / 23
p0 628.1 ± 0.9057
700
680
660
640
620
600
580
560
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

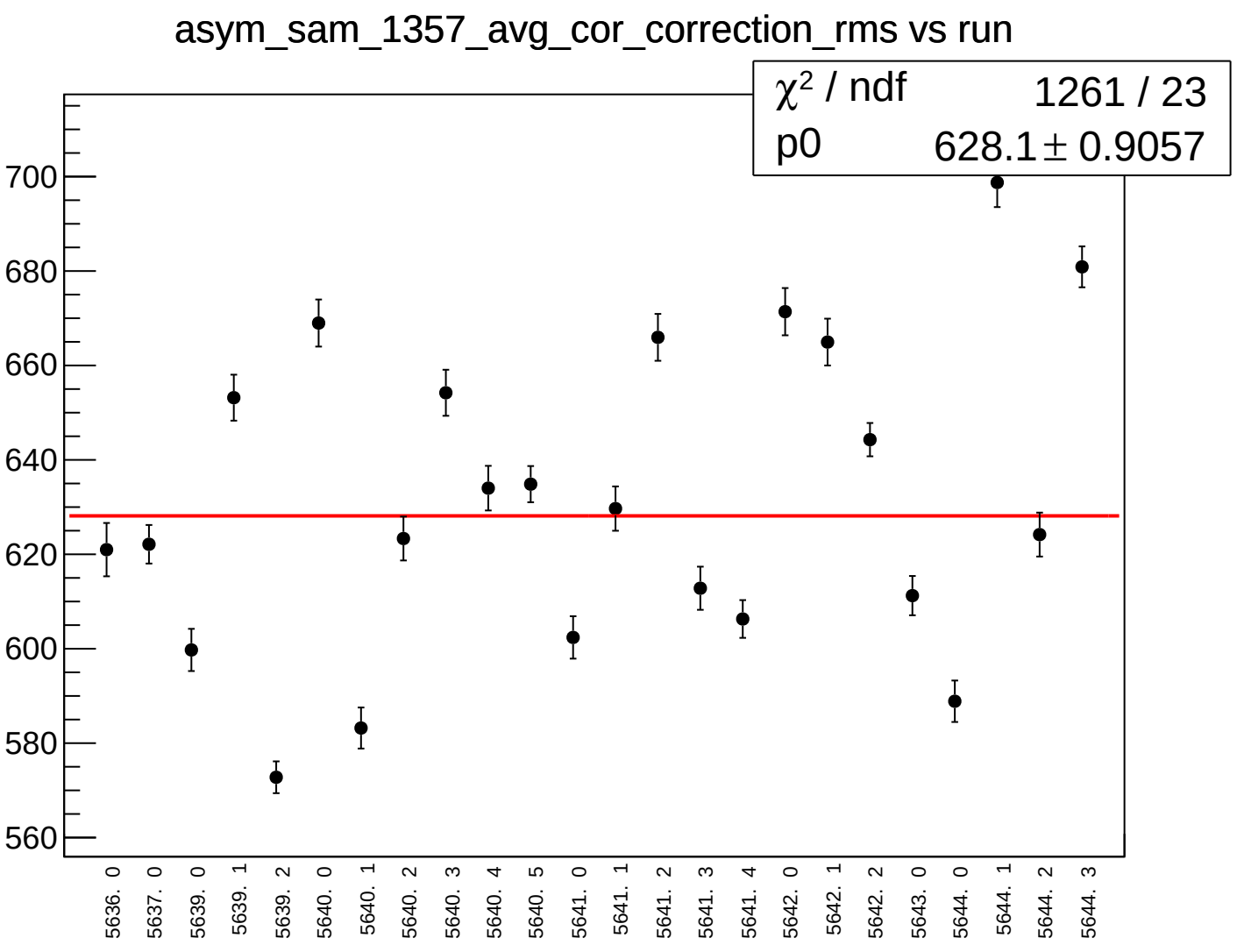

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 16.42 / 23
p0 102 ± 115.6
1500
1000
500
0
−500
−1000
−1500
−2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 58.32
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

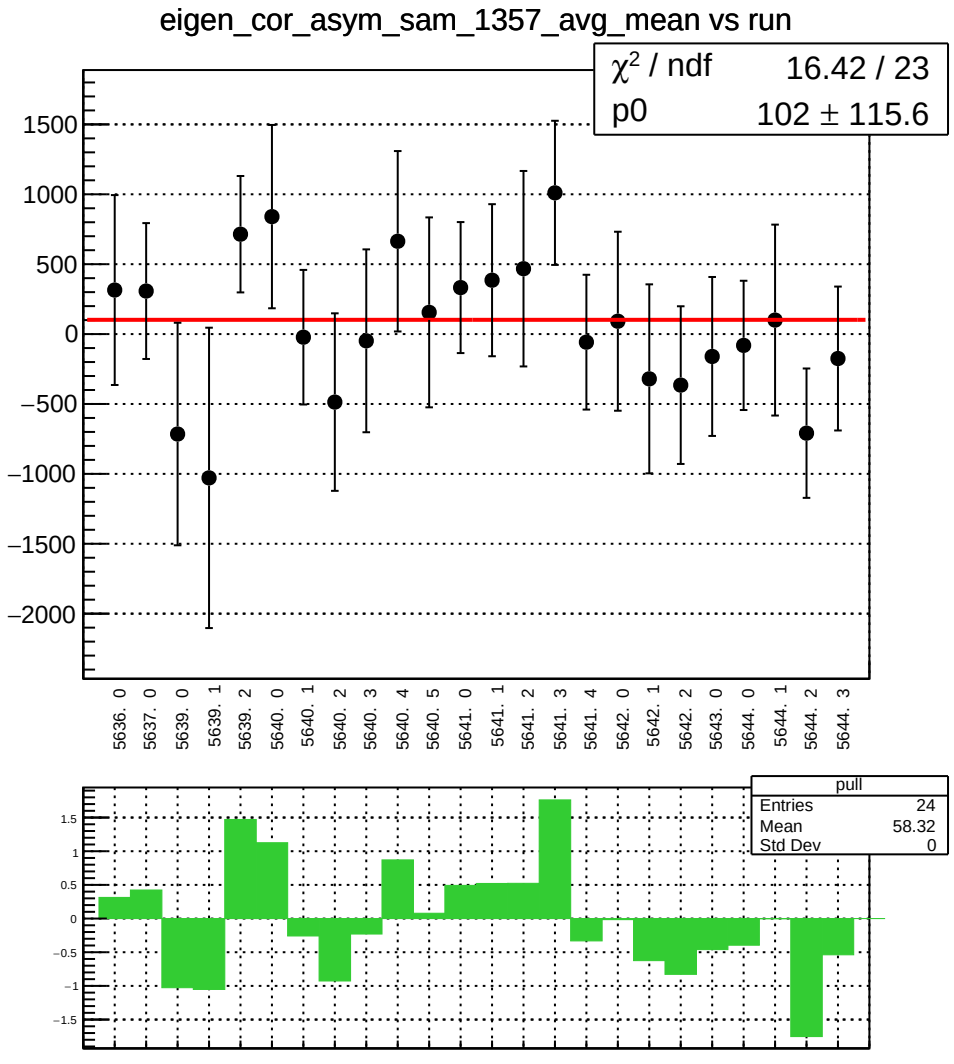

pull1D
Entries 24
Mean −0.03588
Std Dev 0.8264
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

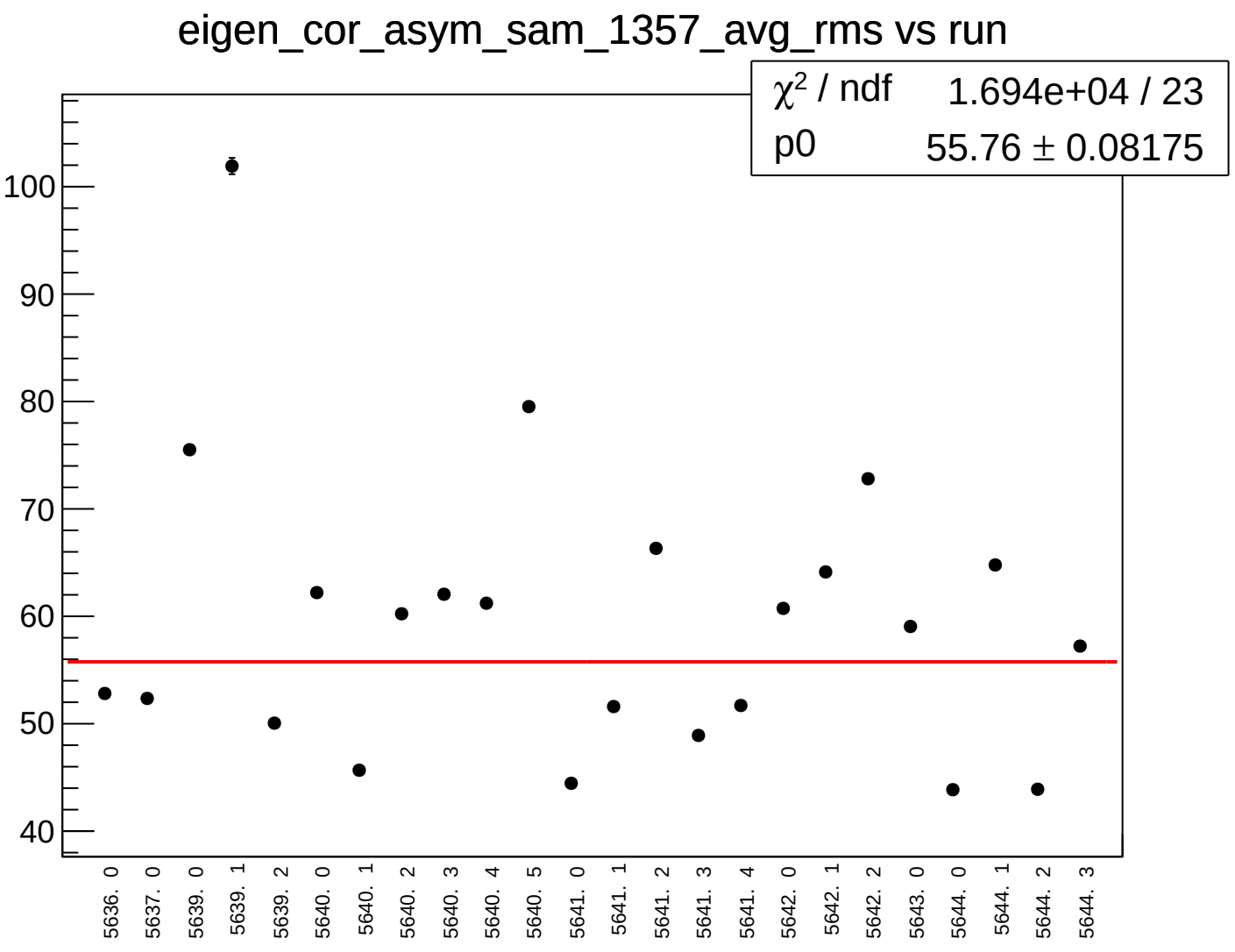

cor_asym_sam_1357_avg_rms vs run
χ² / ndf 1.694e+04 / 23
p0 55.76 ± 0.08175
100
90
80
70
60
50
40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

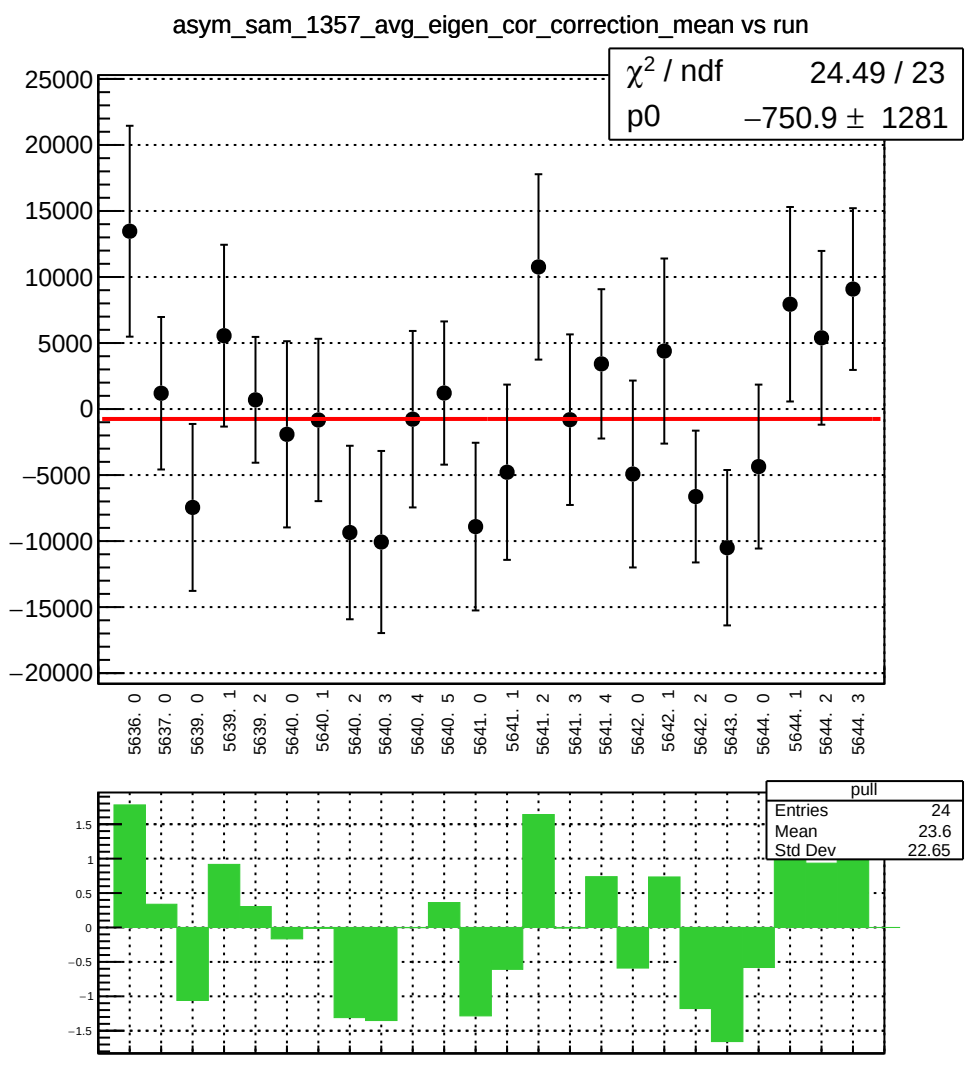

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 24.49 / 23
p0 −750.9 ± 1281
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 23.6
Std Dev 22.65
1.5
1
0.5
0
−0.5
−1
−1.5

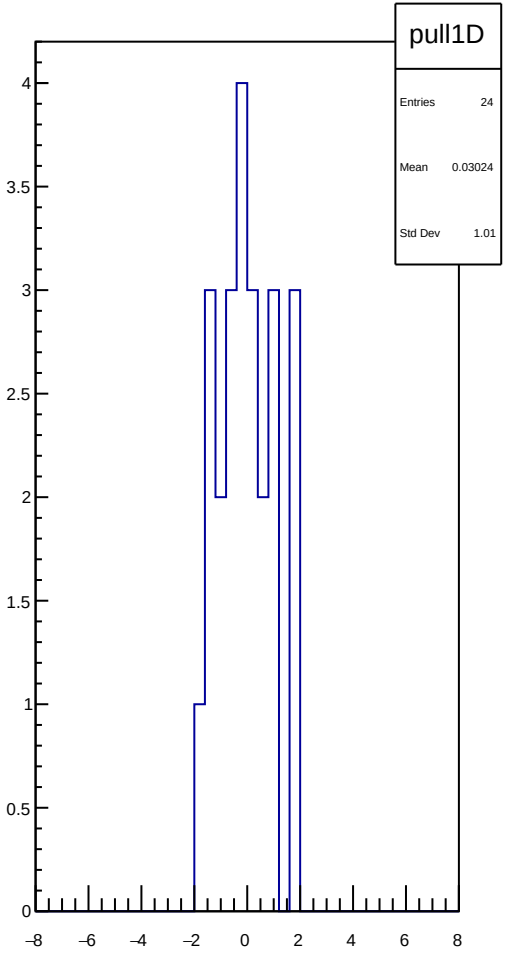

pull1D
Entries 24
Mean 0.03024
Std Dev 1.01
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

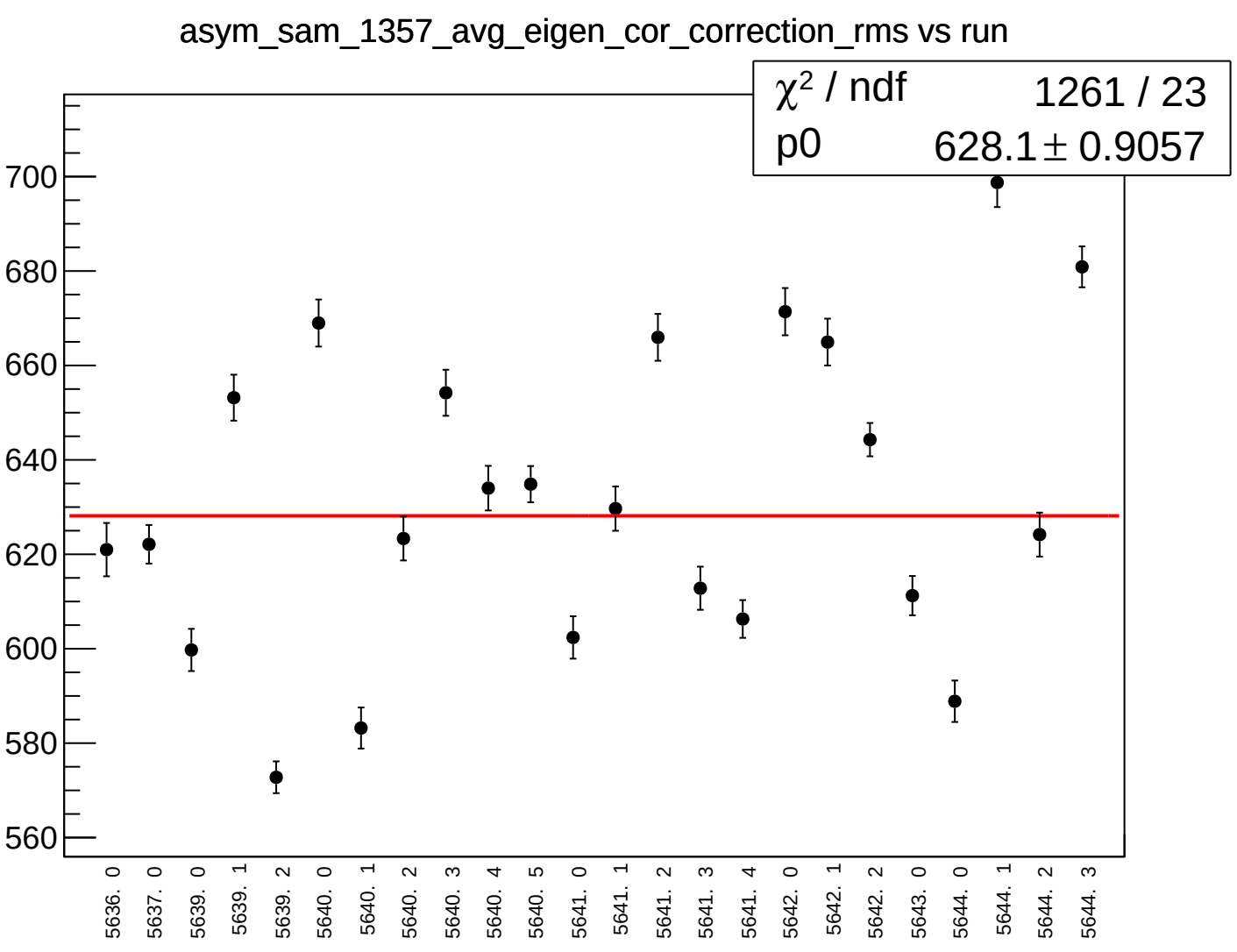

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 1261 / 23
p0 628.1 ± 0.9057
700
680
660
640
620
600
580
560
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

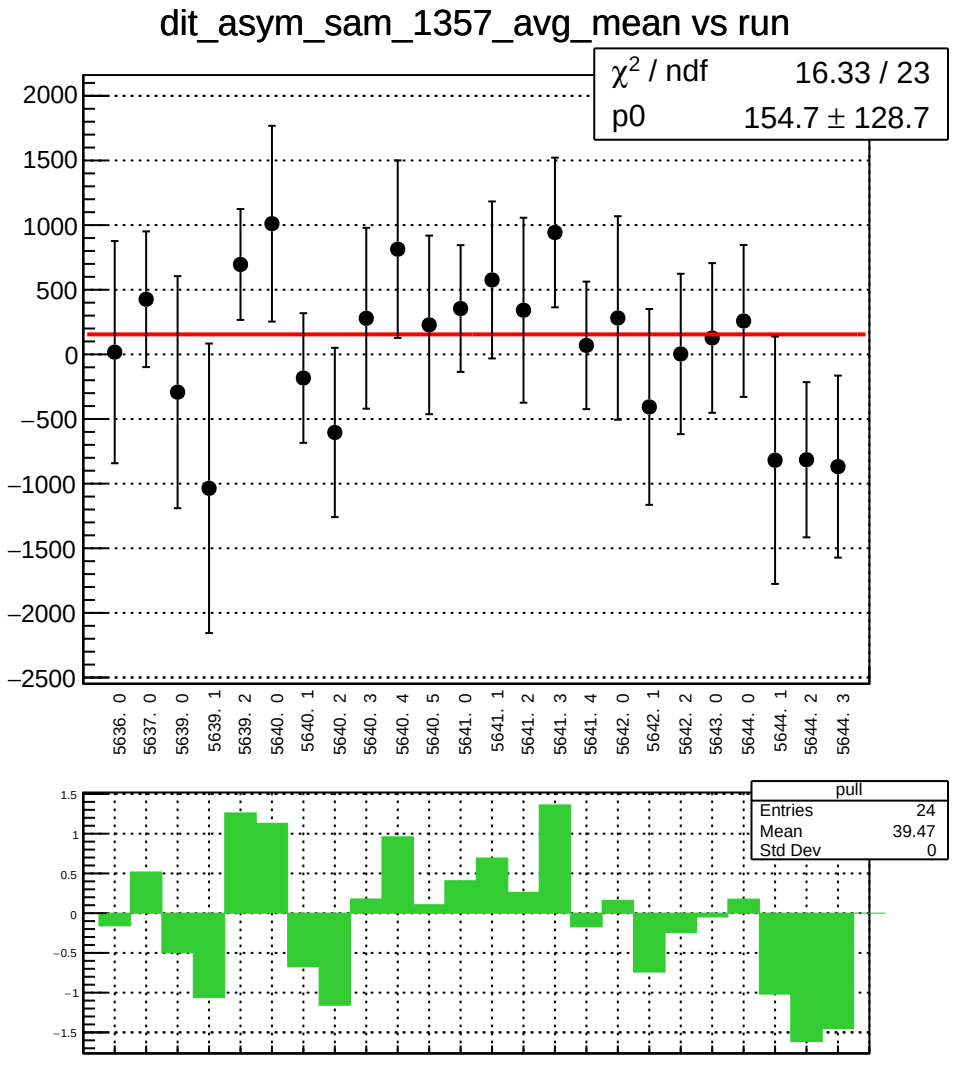

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 16.42 / 23
p0 102 ± 115.6
1500
1000
500
0
−500
−1000
−1500
−2000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 58.32
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.03588
Std Dev 0.8264
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

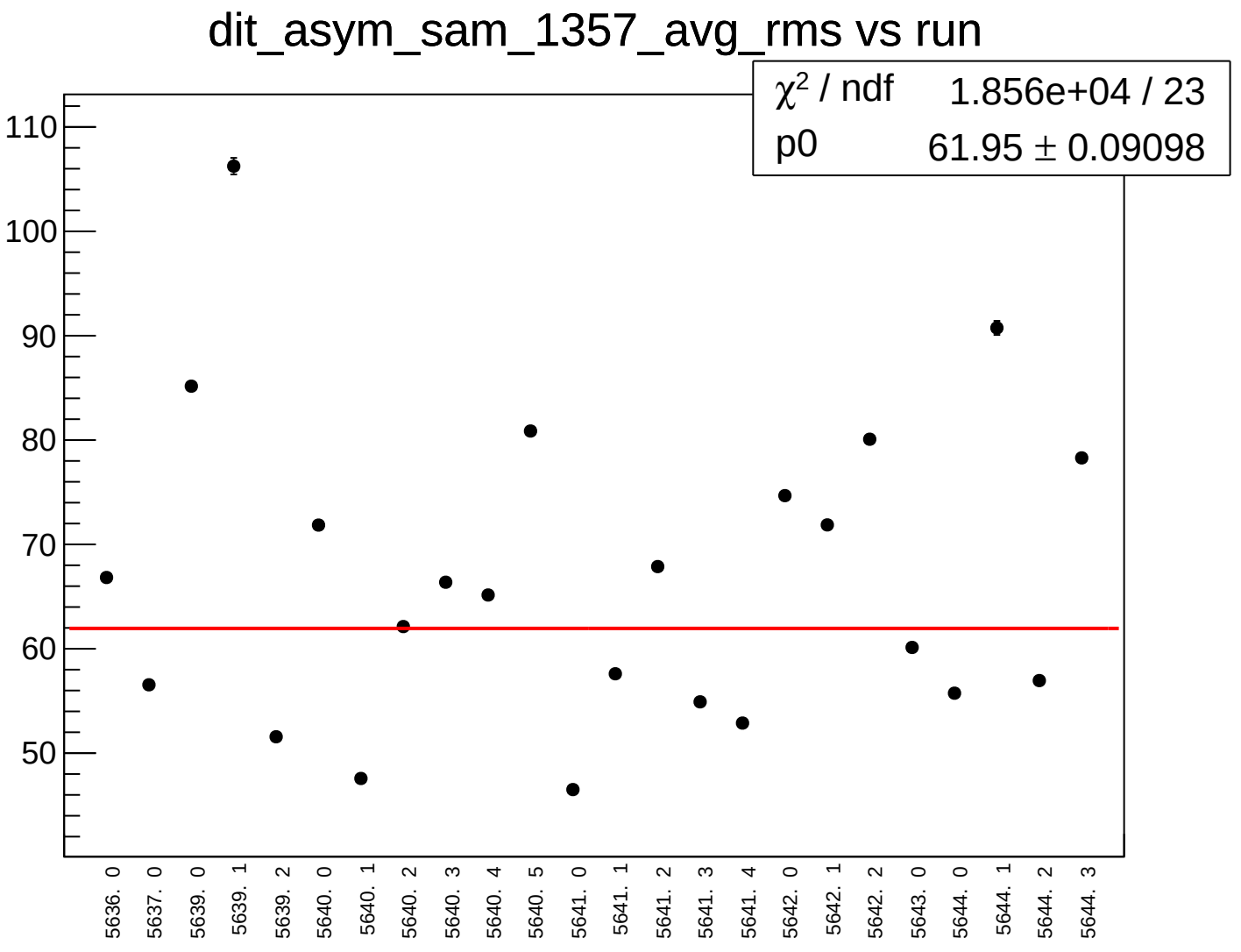

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 1.694e+04 / 23
p0 55.76 ± 0.08175
100
90
80
70
60
50
40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

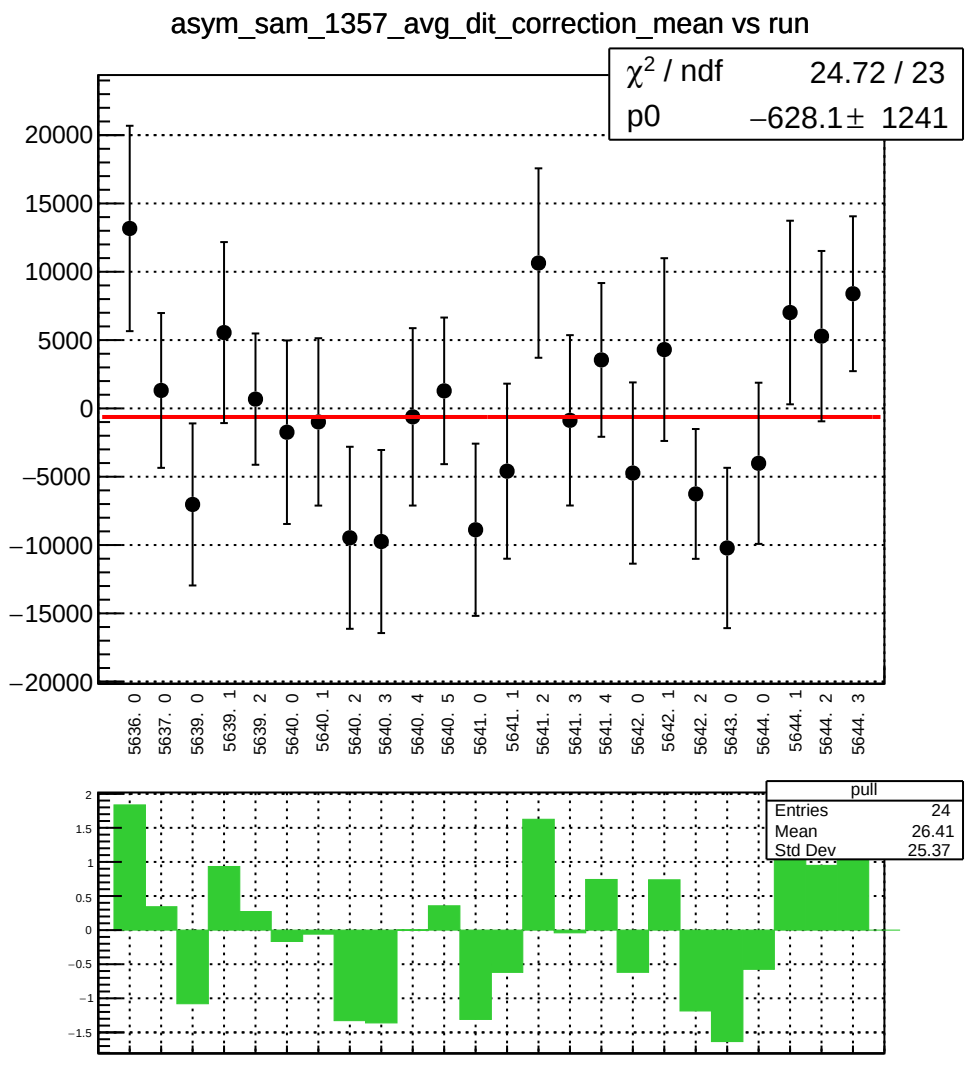

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 24.49 / 23
p0 −750.9 ± 1281
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 23.6
Std Dev 22.65
1.5
1
0.5
0
−0.5
−1
−1.5

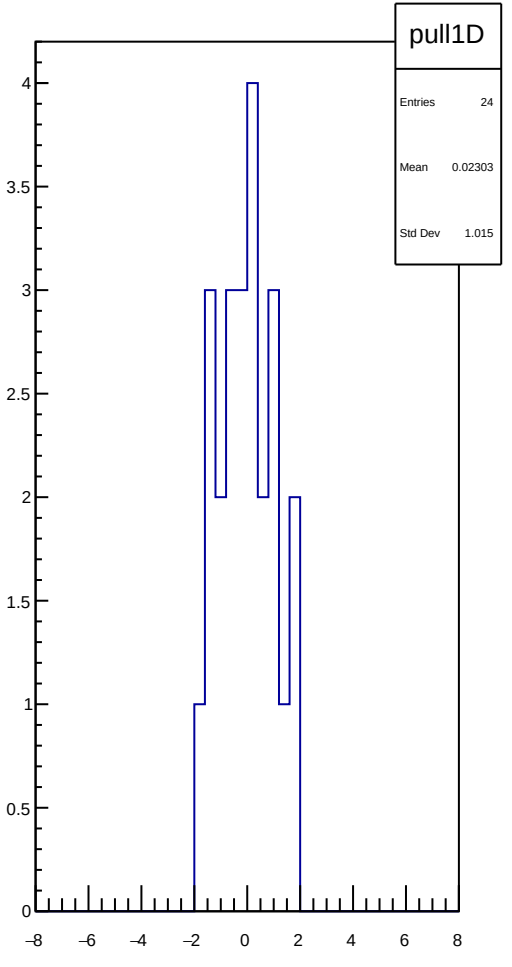

pull1D
Entries 24
Mean 0.03024
Std Dev 1.01
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

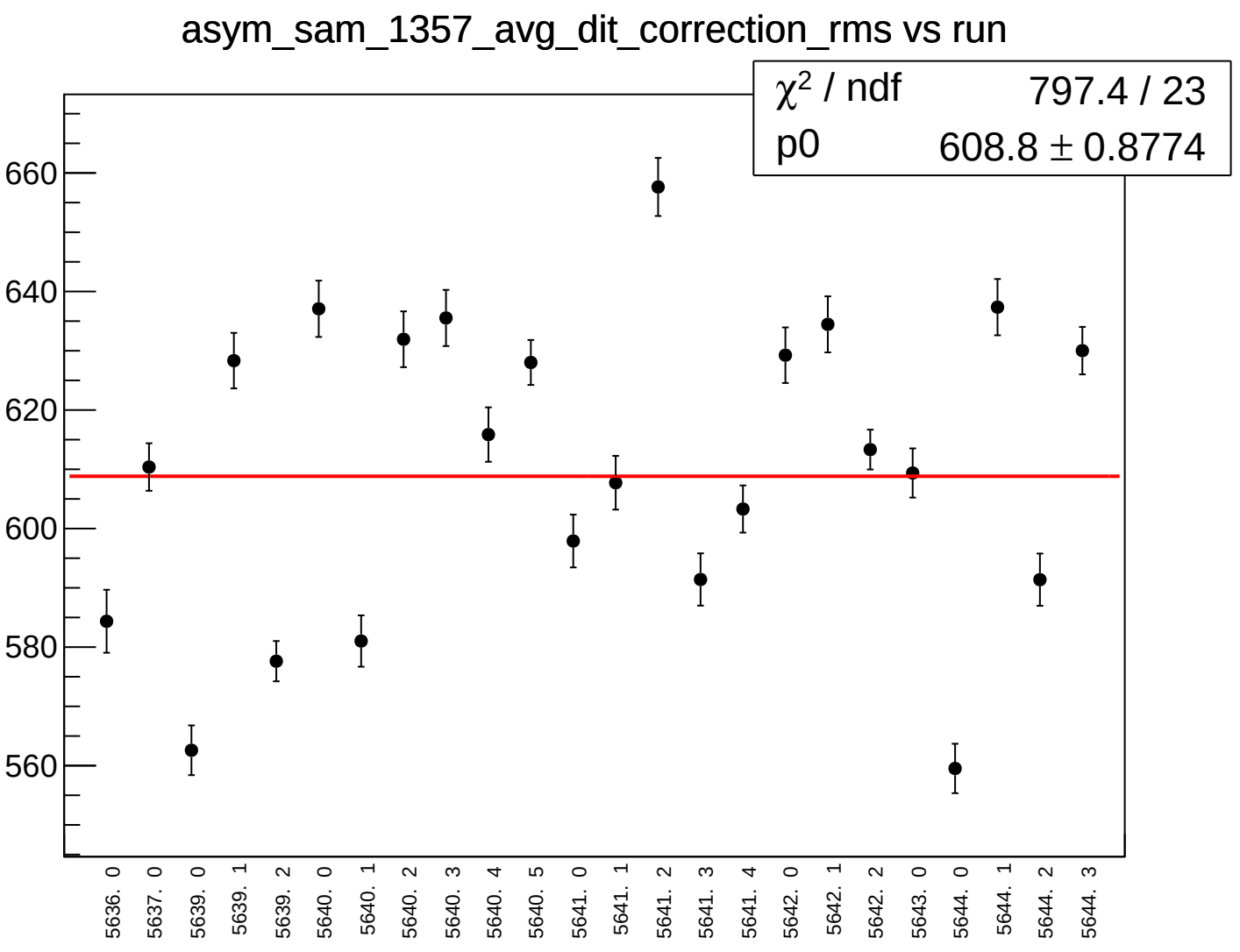

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 1261 / 23
p0 628.1 ± 0.9057
700
680
660
640
620
600
580
560
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

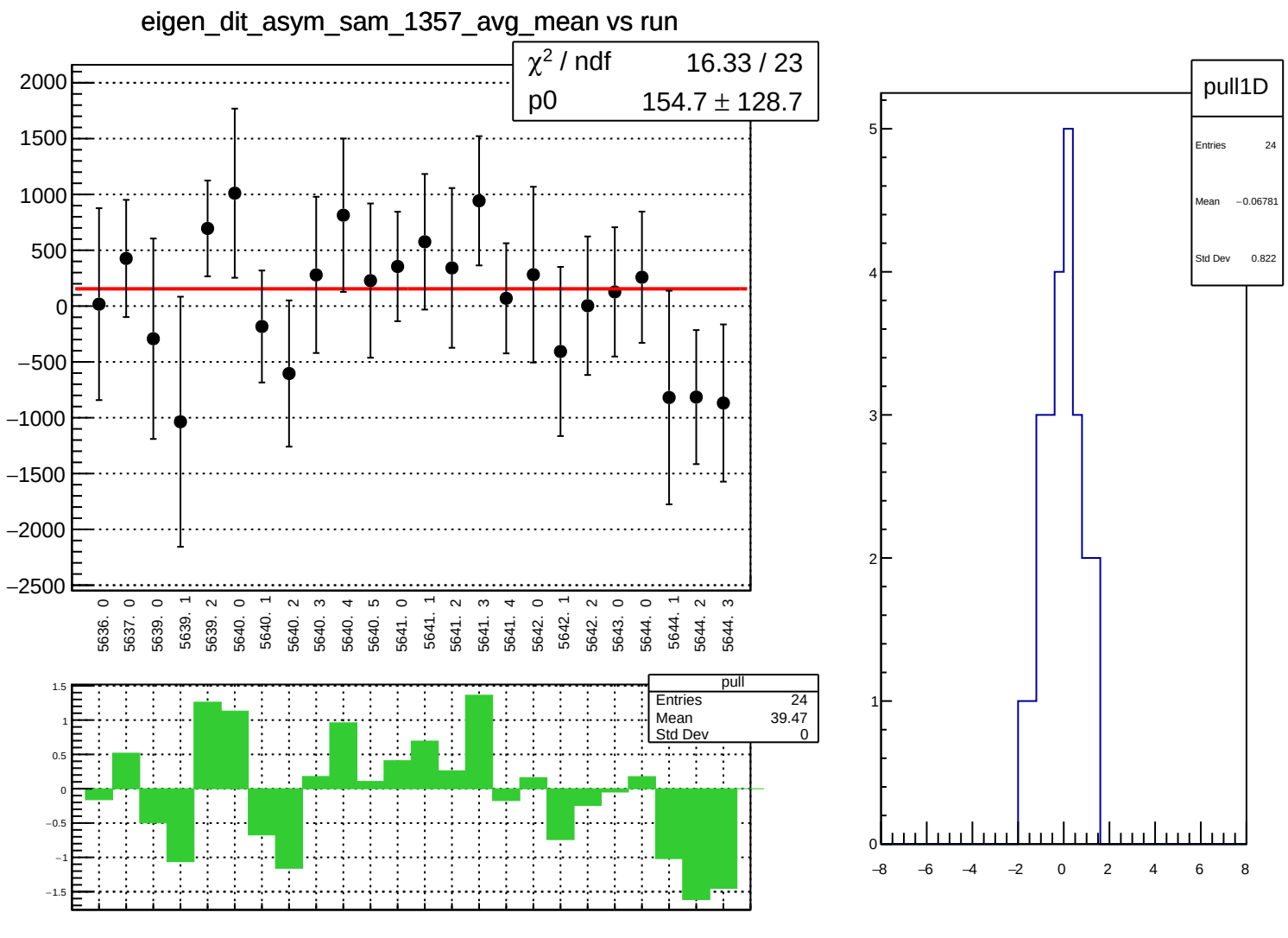

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 16.33 / 23
p0 154.7 ± 128.7
2000
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 39.47
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.06781
Std Dev 0.822
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

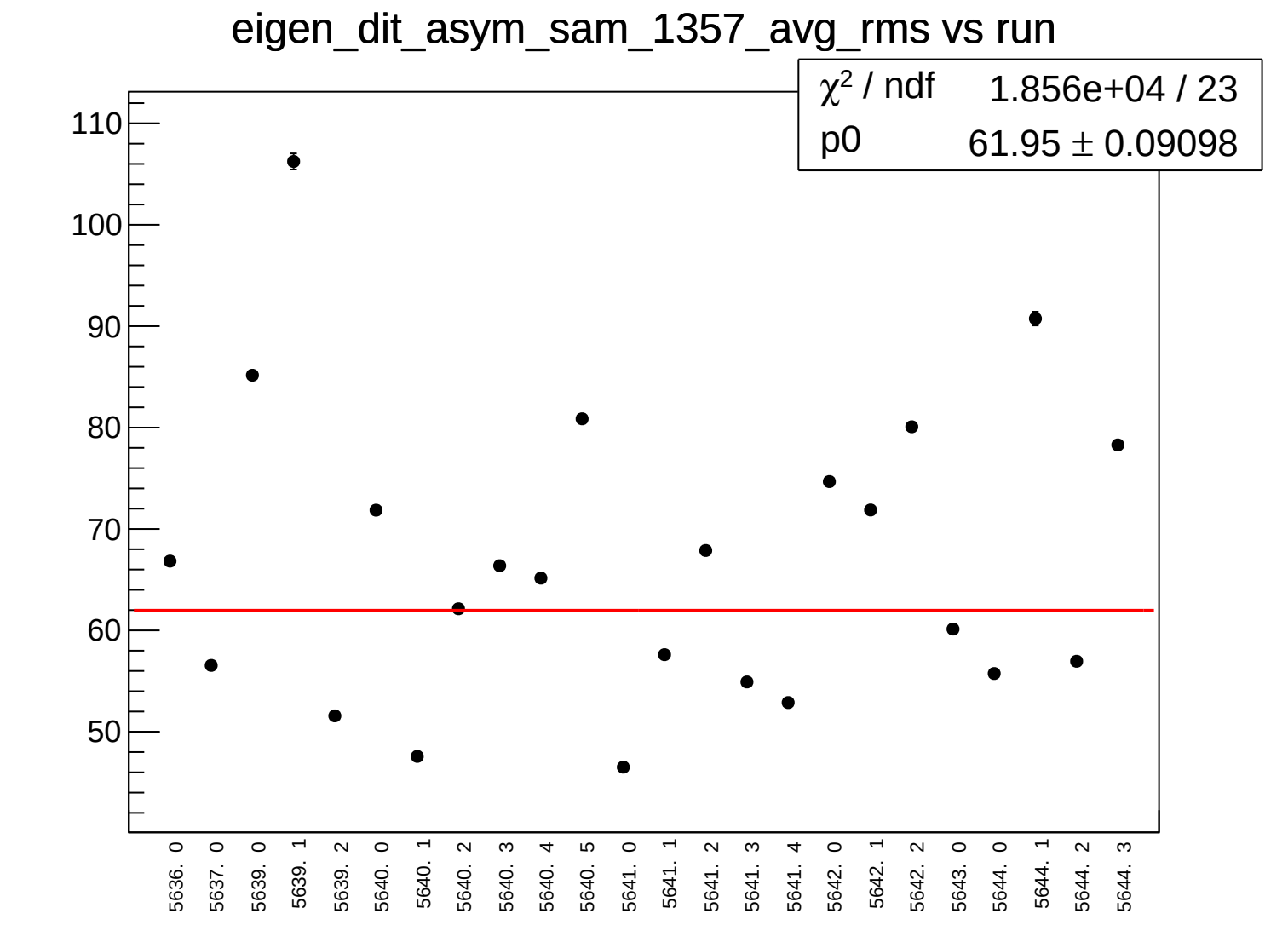

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.856e+04 / 23
p0 61.95 ± 0.09098
110
100
90
80
70
60
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

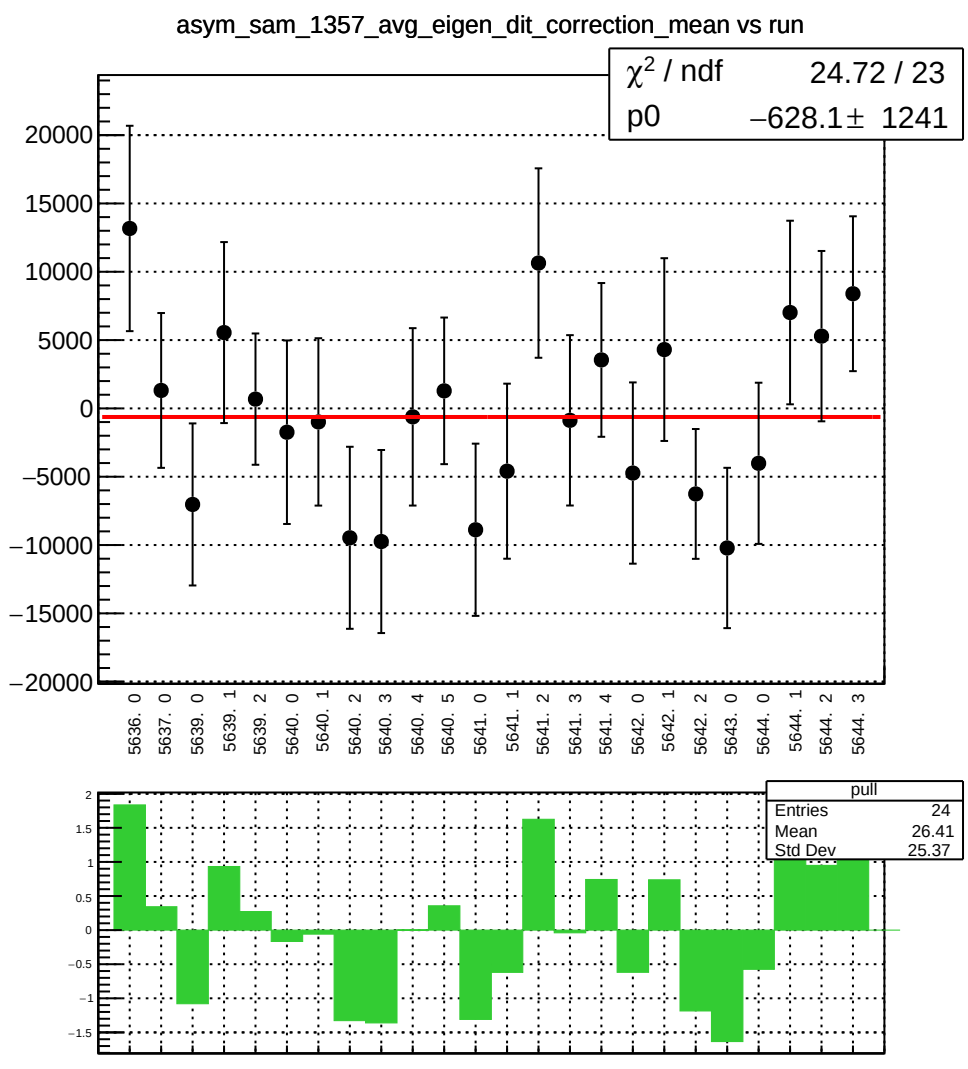

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 24.72 / 23
p0 −628.1± 1241
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 26.41
Std Dev 25.37
2
1.5
1
0.5
0
−0.5
−1
−1.5

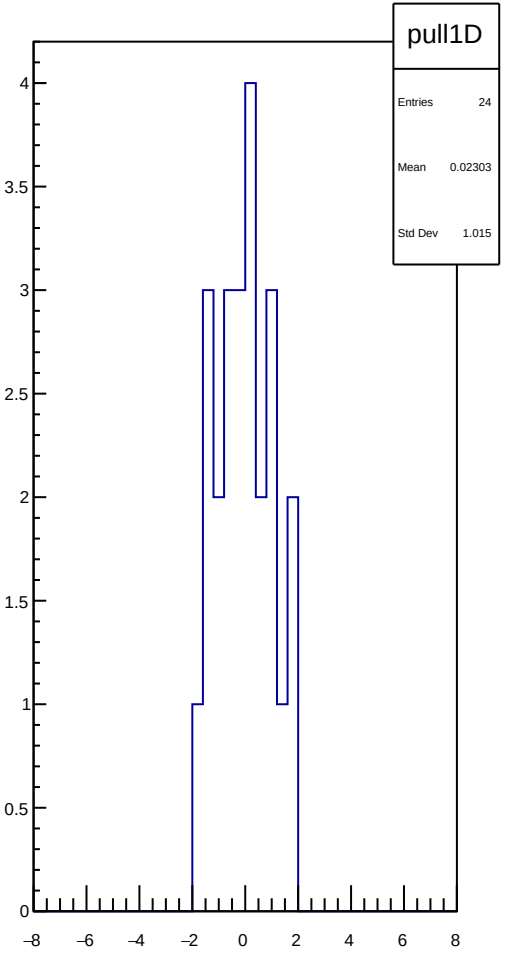

pull1D
Entries 24
Mean 0.02303
Std Dev 1.015
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

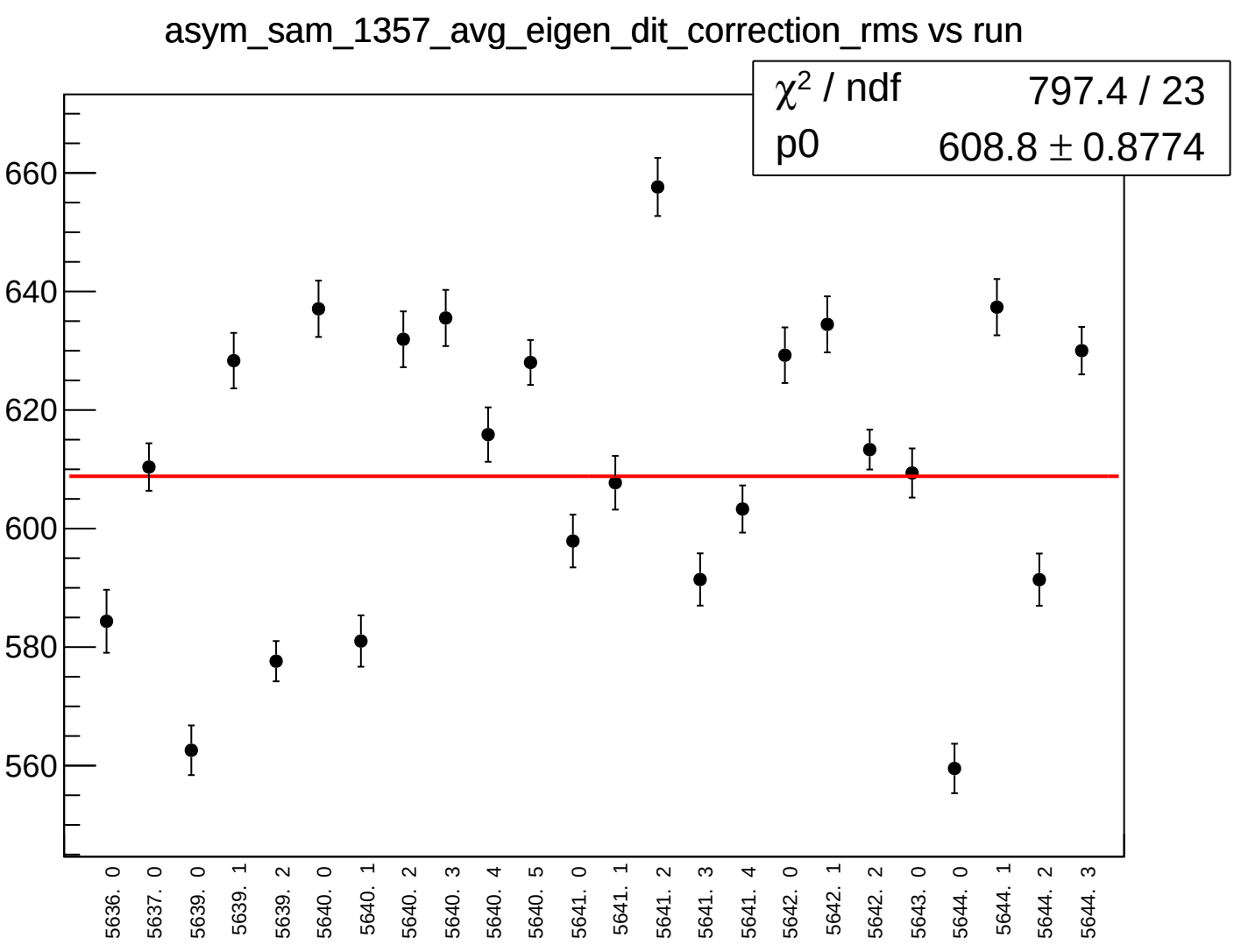

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 797.4 / 23
p0 608.8 ± 0.8774
660
640
620
600
580
560
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

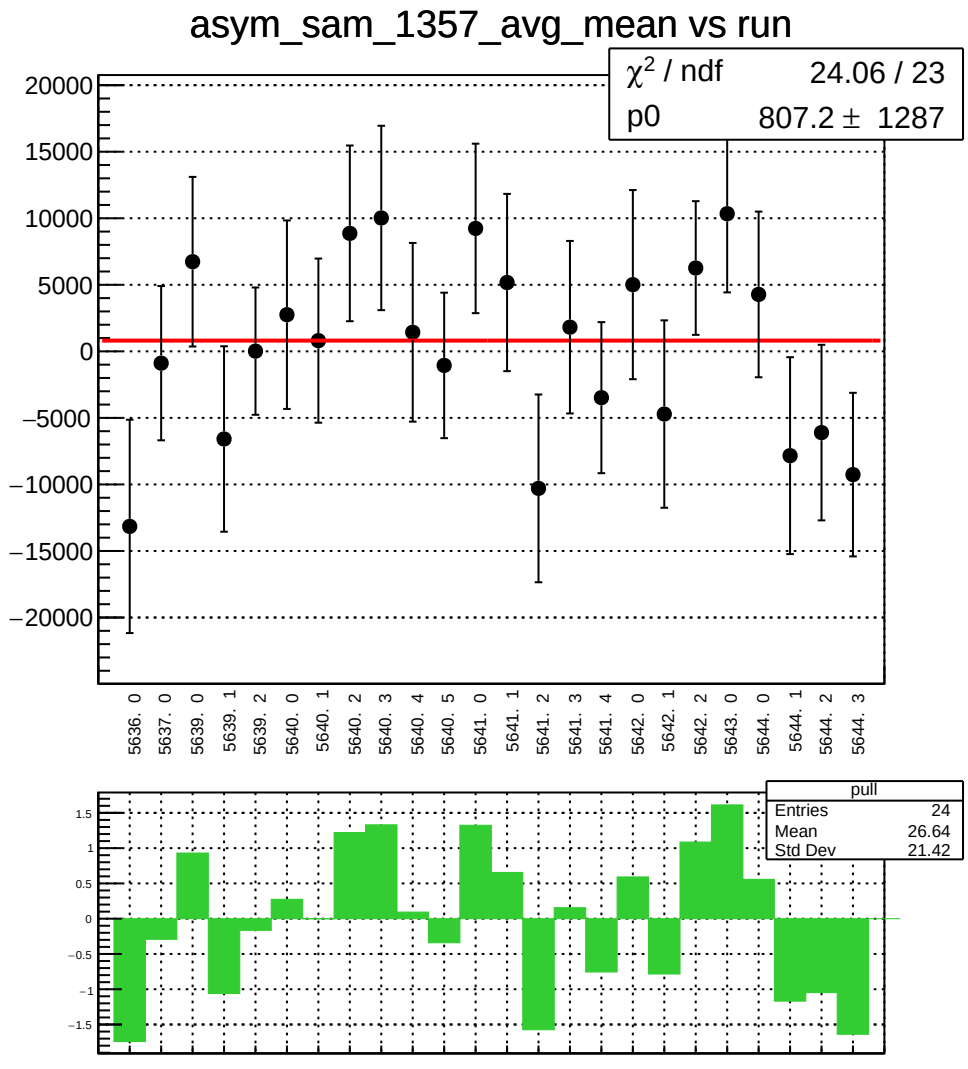

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 16.33 / 23
p0 154.7 ± 128.7
2000
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 39.47
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.06781
Std Dev 0.822
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

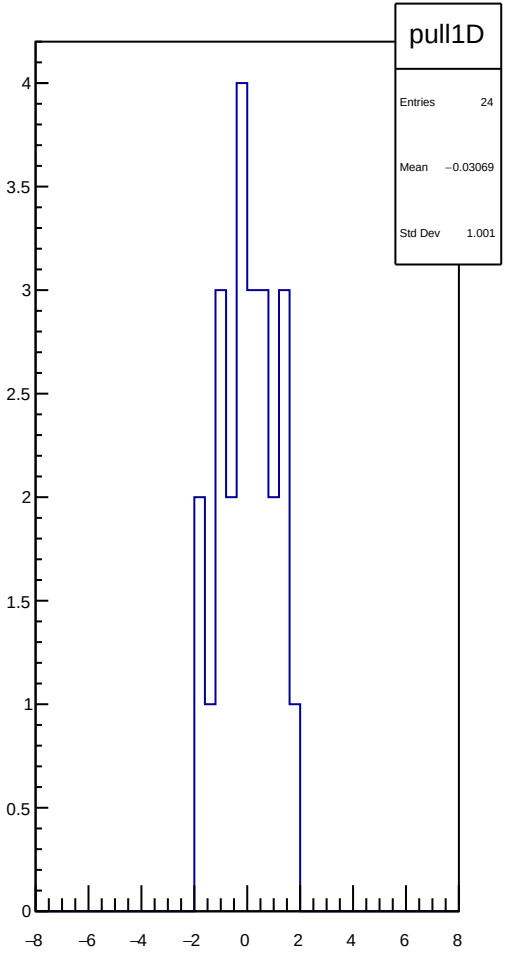

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.856e+04 / 23
p0 61.95 ± 0.09098
110
100
90
80
70
60
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

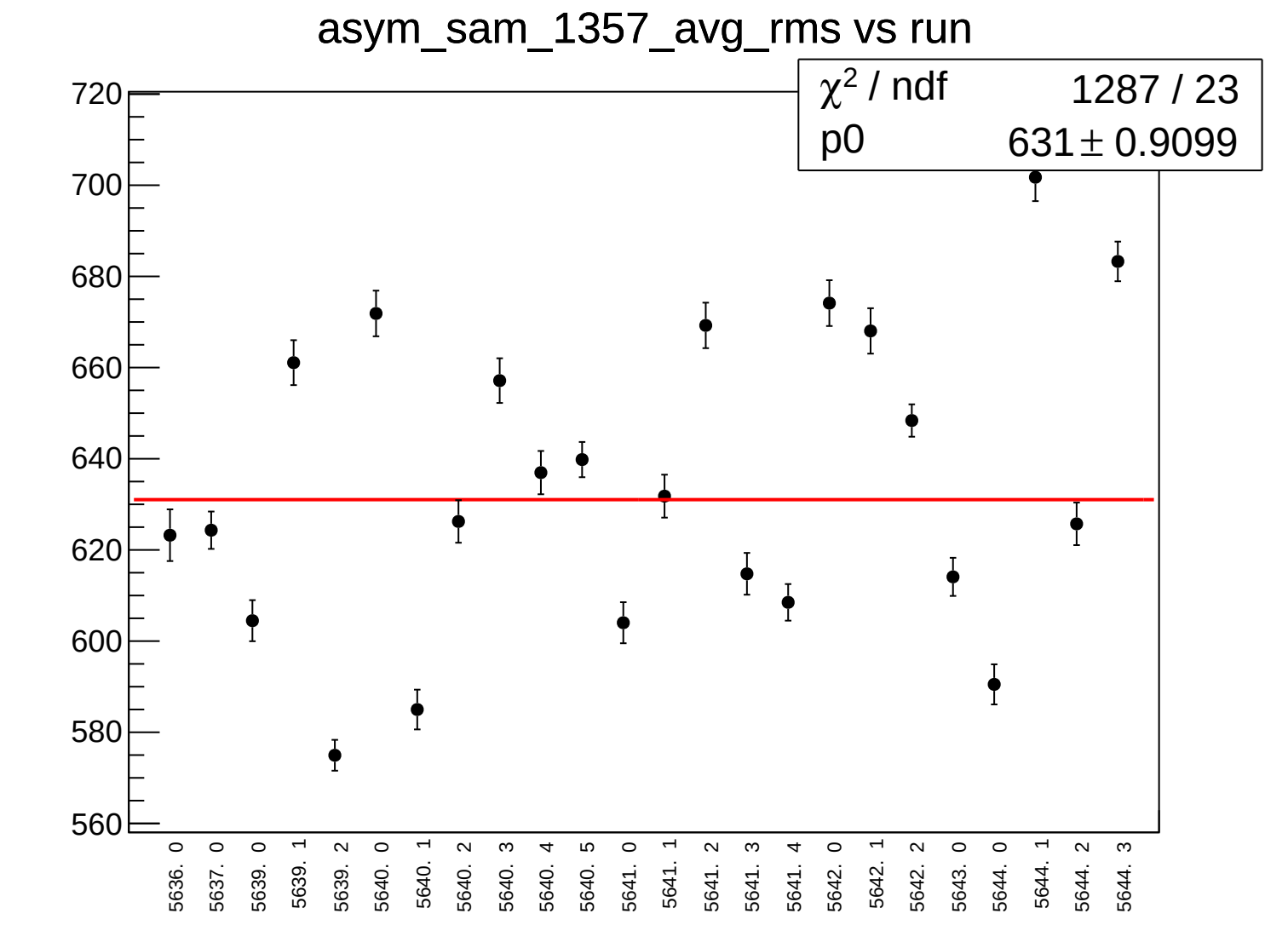

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 24.72 / 23
p0 −628.1± 1241
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 26.41
Std Dev 25.37
2
1.5
1
0.5
0
−0.5
−1
−1.5

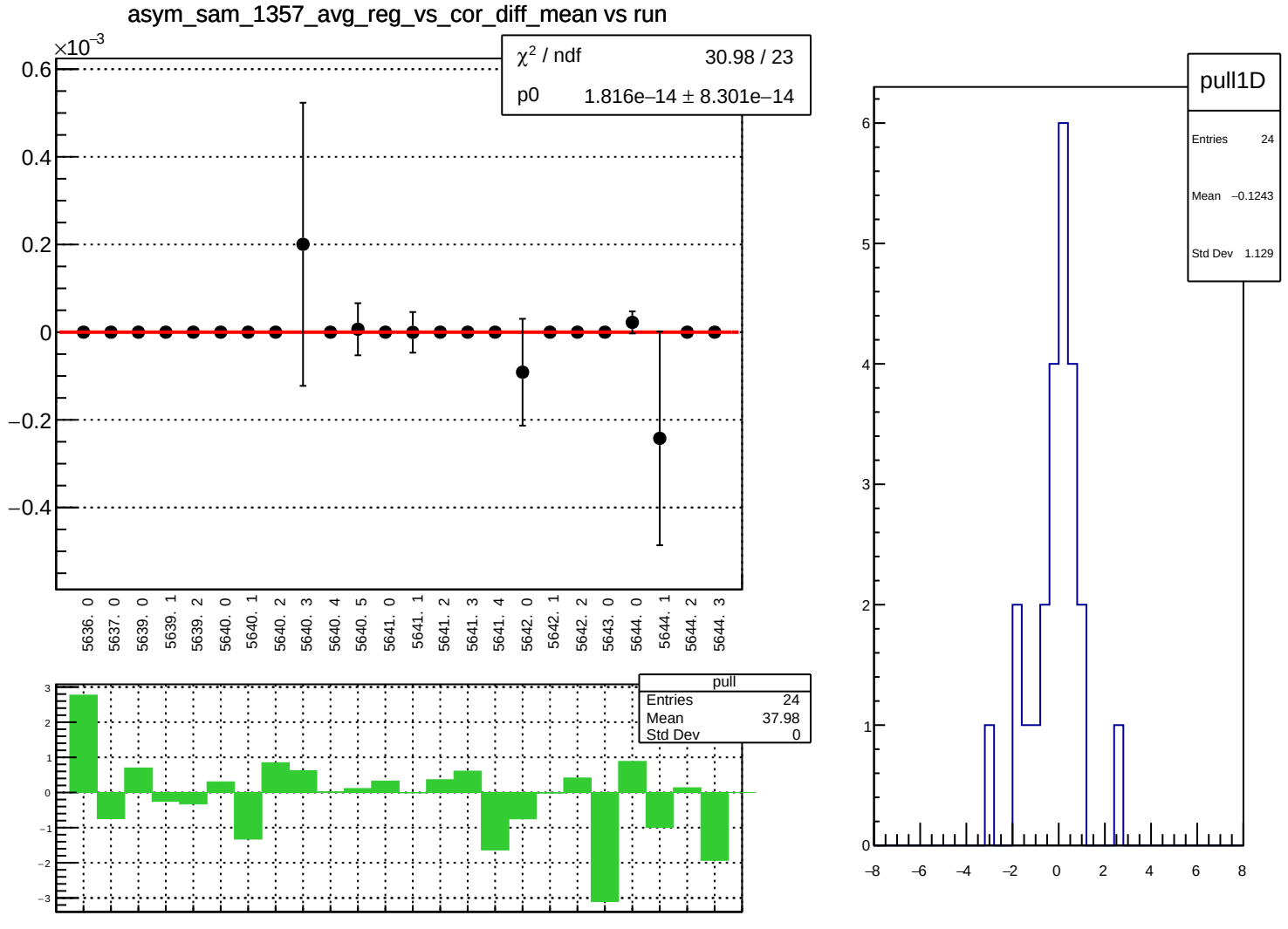

pull1D
Entries 24
Mean 0.02303
Std Dev 1.015
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

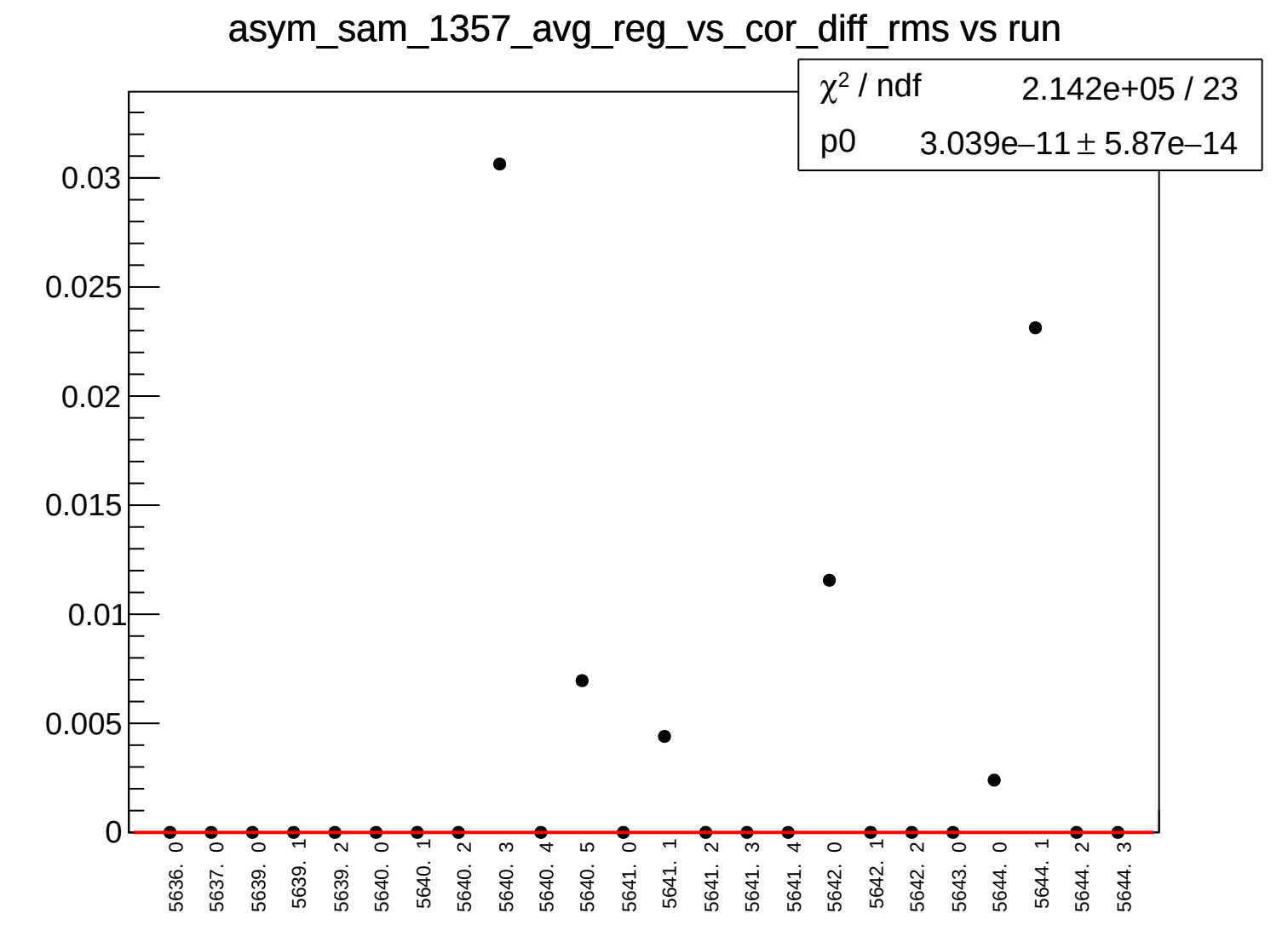

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 797.4 / 23
p0 608.8 ± 0.8774
660
640
620
600
580
560
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

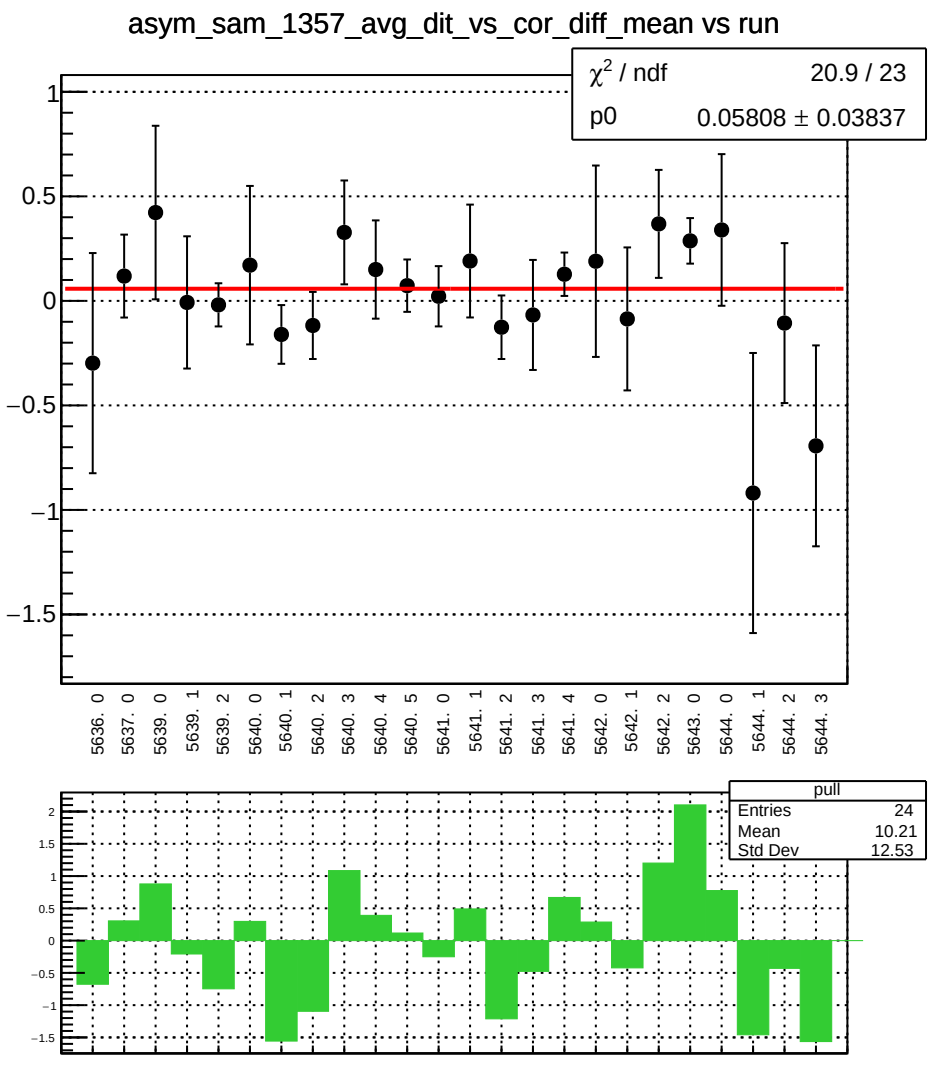

asym_sam_1357_avg_mean vs run
χ² / ndf 24.06 / 23
p0 807.2 ± 1287
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 26.64
Std Dev 21.42
1.5
1
0.5
0
−0.5
−1
−1.5

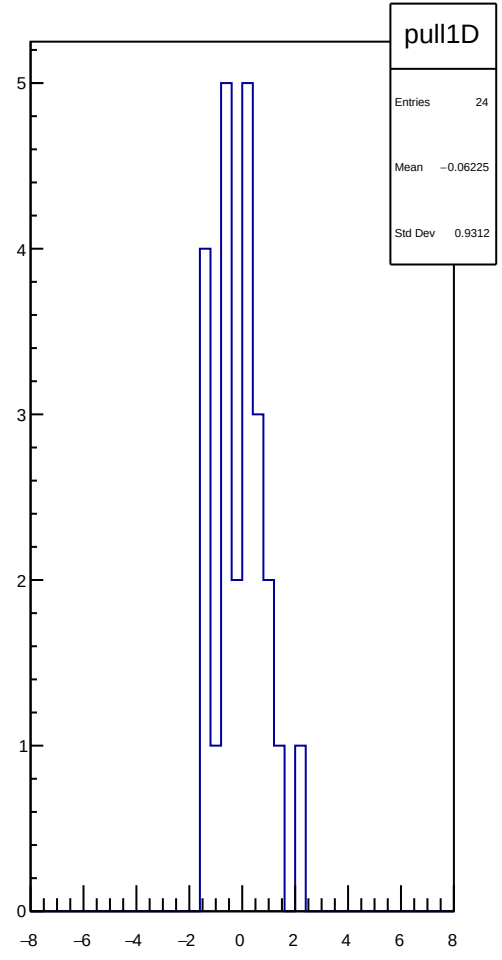

pull1D
Entries 24
Mean −0.03069
Std Dev 1.001
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

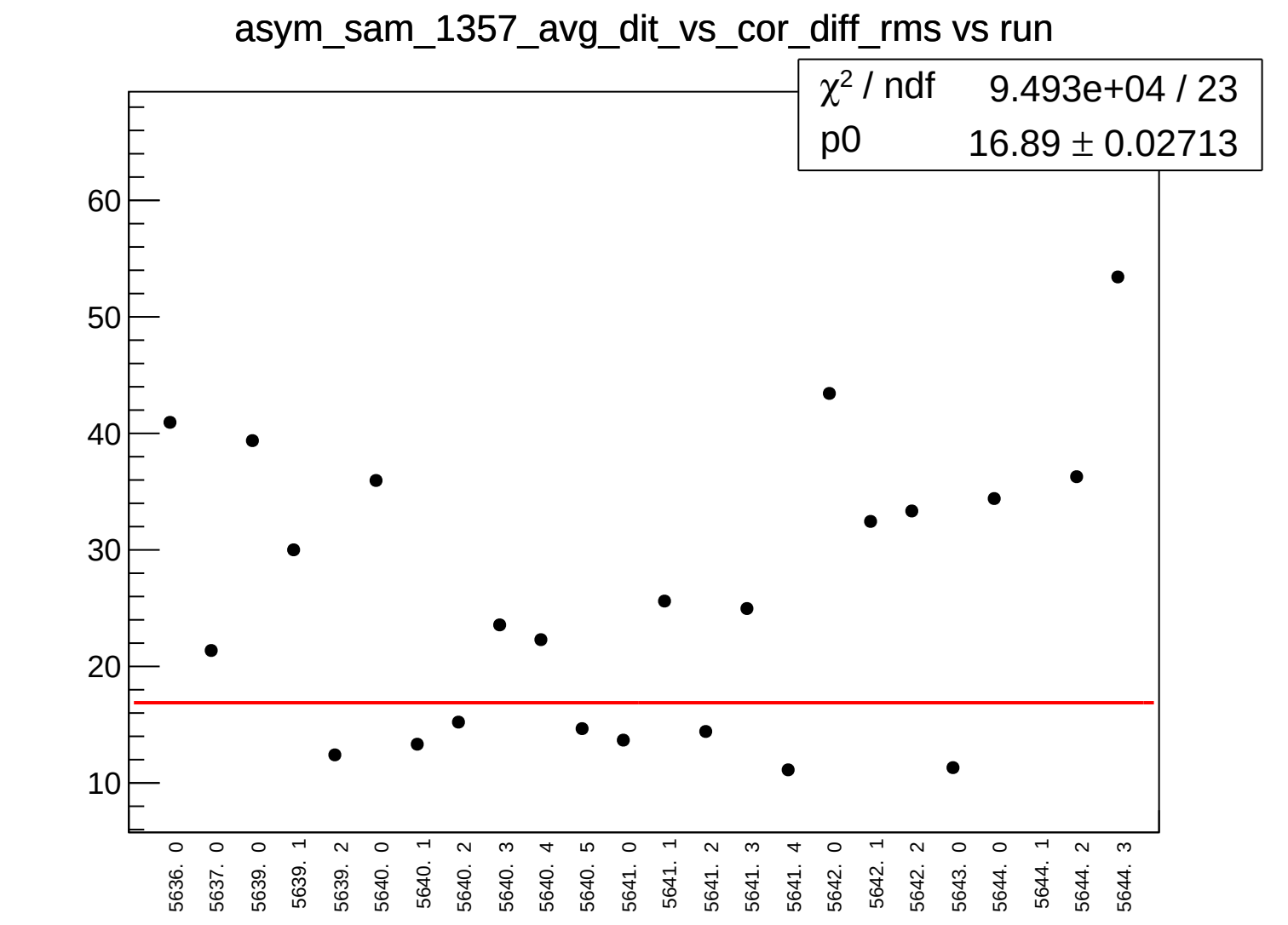

asym_sam_1357_avg_rms vs run
χ² / ndf 1287 / 23
p0 631 ± 0.9099
720
700
680
660
640
620
600
580
560
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 30.98 / 23
p0 1.816e−14 ± 8.301e−14
0.6
0.4
0.2
0
−0.2
−0.4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 37.98
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean −0.1243
Std Dev 1.129
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.142e+05 / 23
p0 3.039e−11 ± 5.87e−14
0.03
0.025
0.02
0.015
0.01
0.005
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 20.9 / 23
p0 0.05808 ± 0.03837
1
0.5
0
−0.5
−1
−1.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 10.21
Std Dev 12.53
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean −0.06225
Std Dev 0.9312
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.493e+04 / 23
p0 16.89 ± 0.02713
60
50
40
30
20
10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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5642. 0
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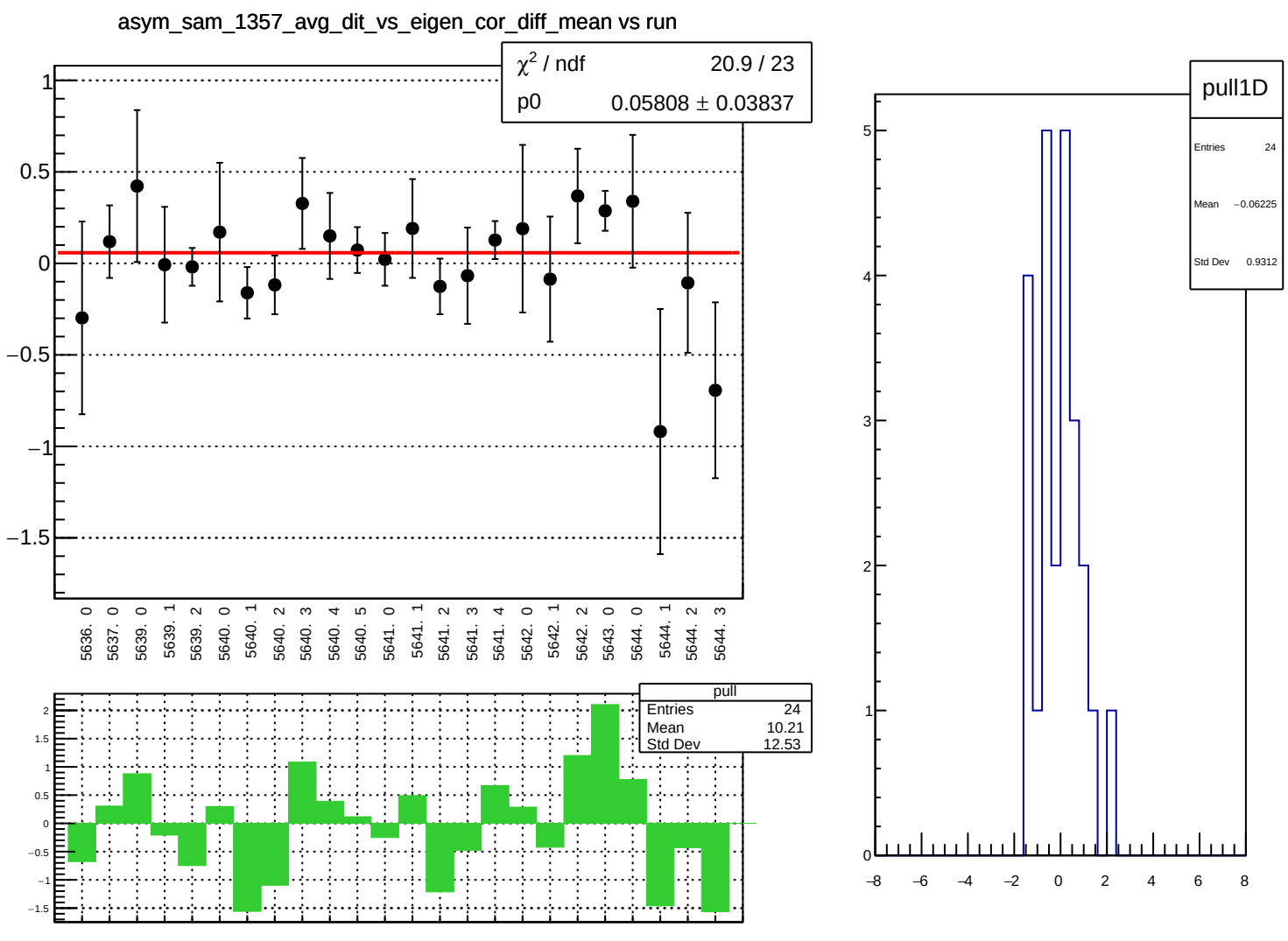
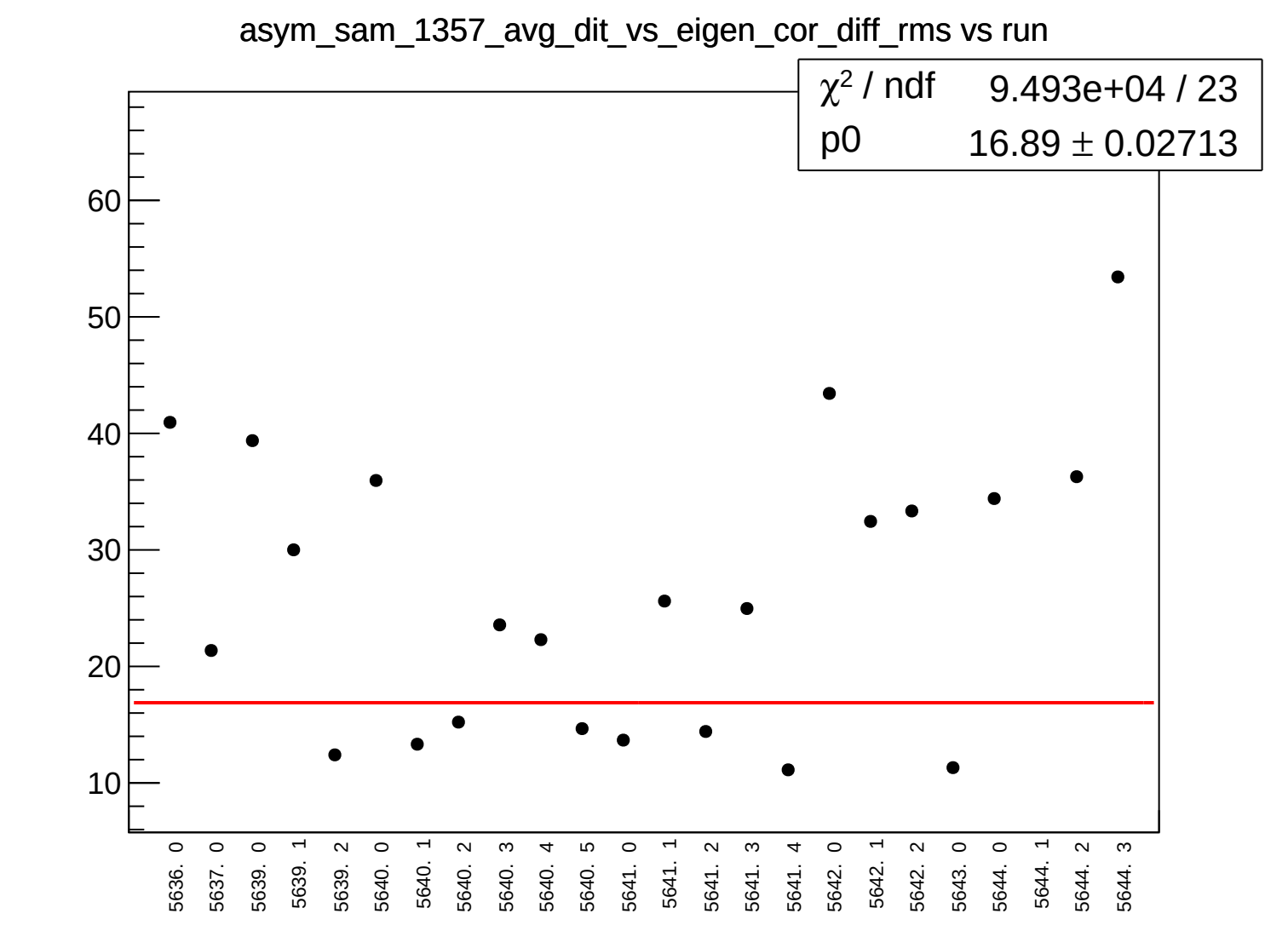
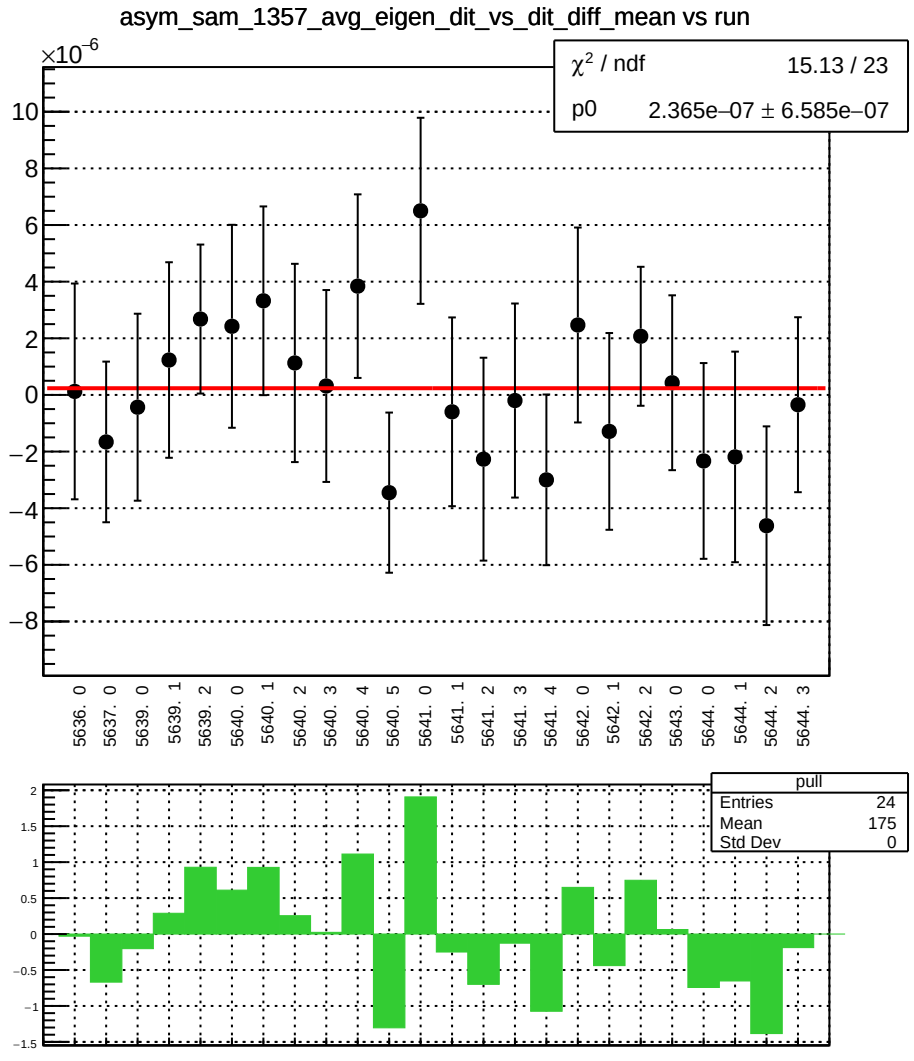
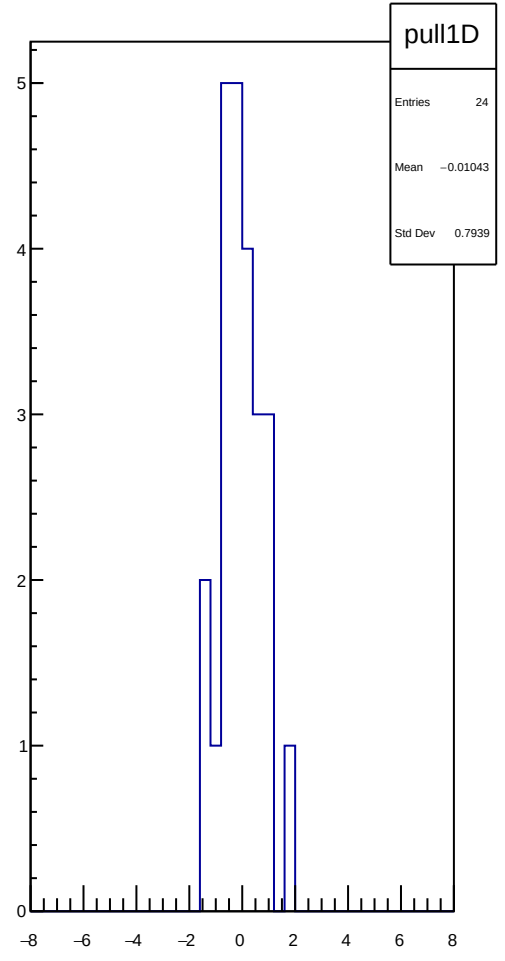
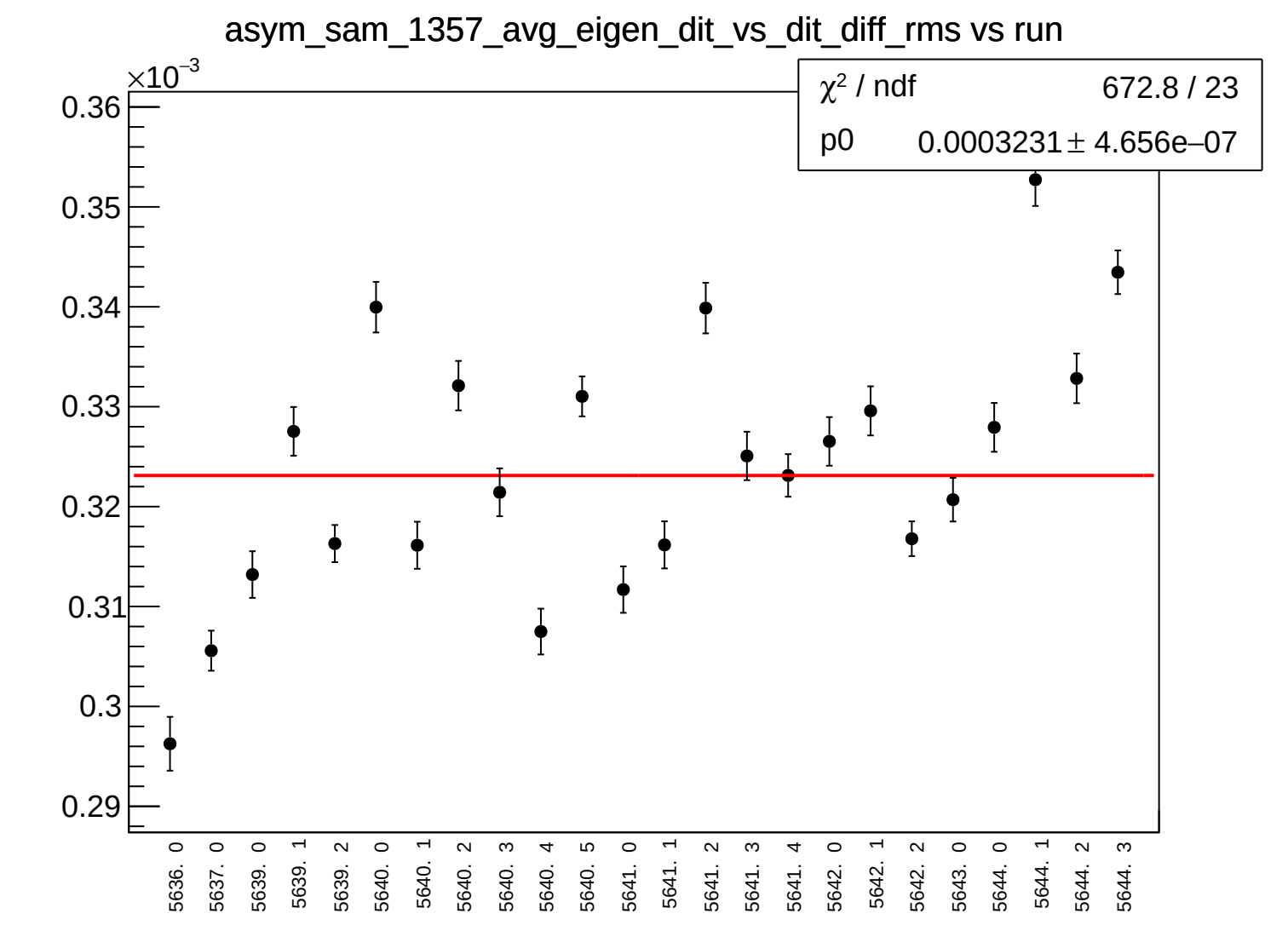
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

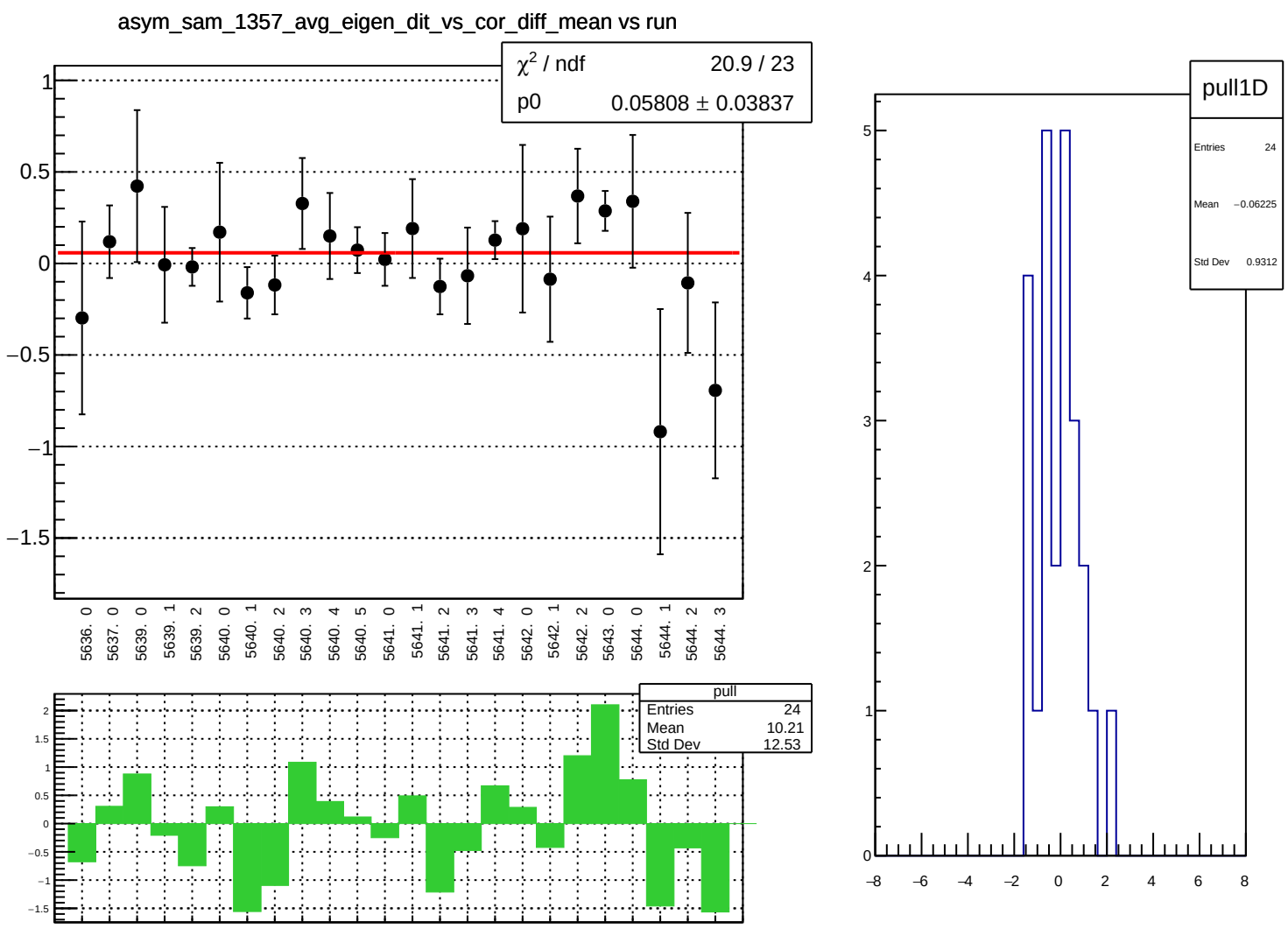

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 20.9 / 23
p0 0.05808 ± 0.03837
1
0.5
0
−0.5
−1
−1.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 10.21
Std Dev 12.53
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.06225
Std Dev 0.9312
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

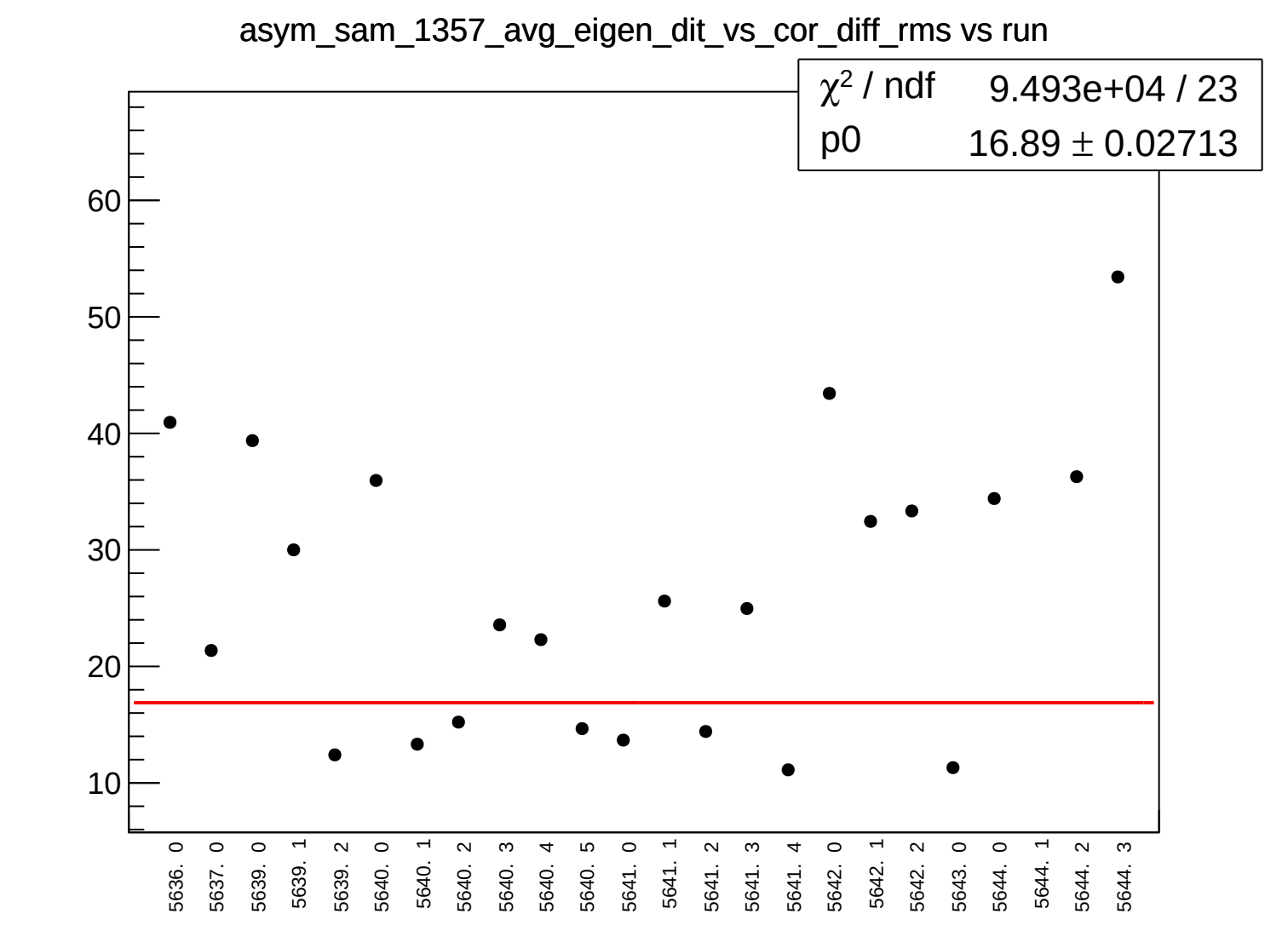

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.493e+04 / 23
p0 16.89 ± 0.02713
60
50
40
30
20
10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

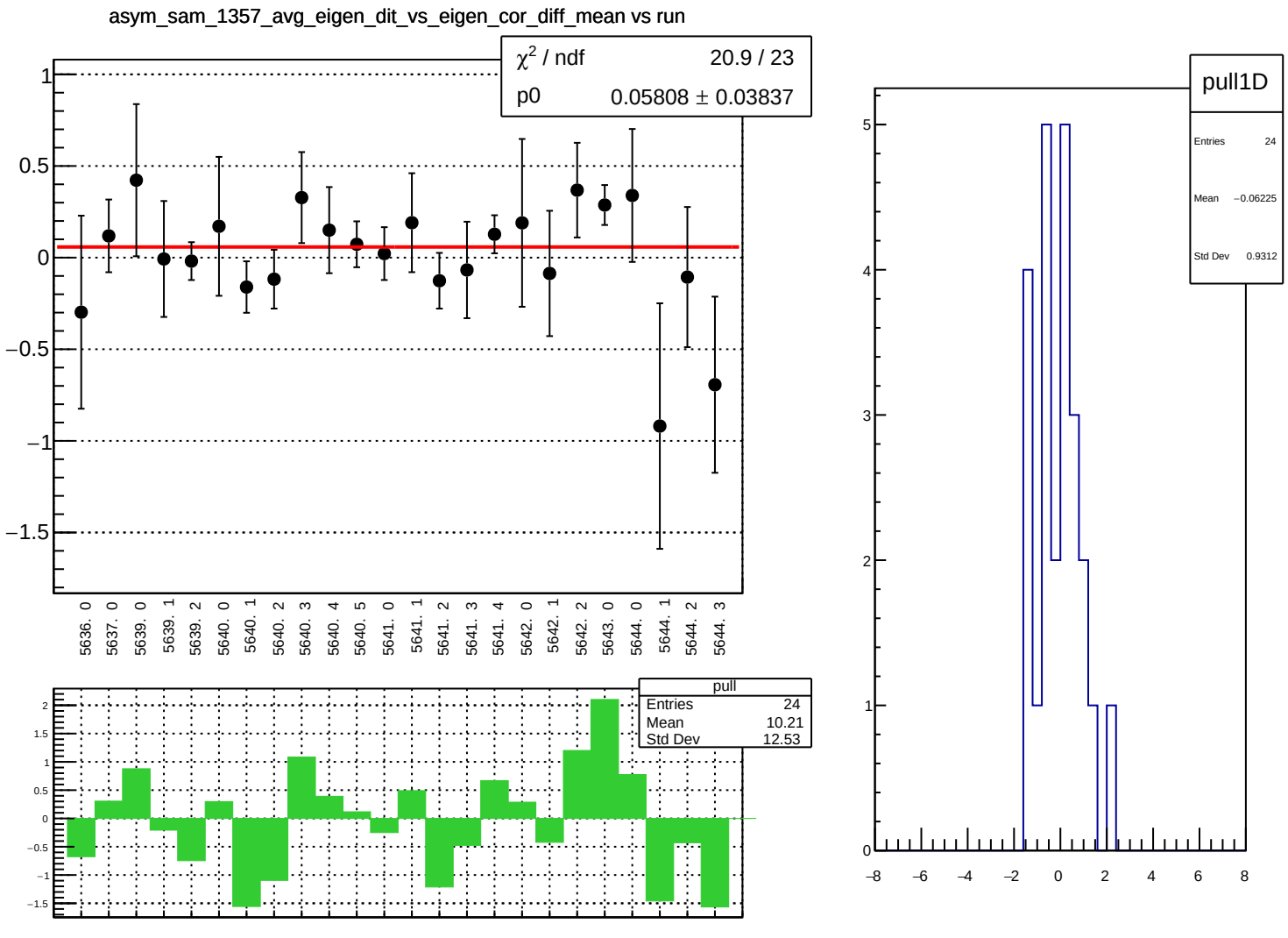

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 15.13 / 23
p0 2.365e−07 ± 6.585e−07
10
8
6
4
2
0
−2
−4
−6
−8
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 175
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

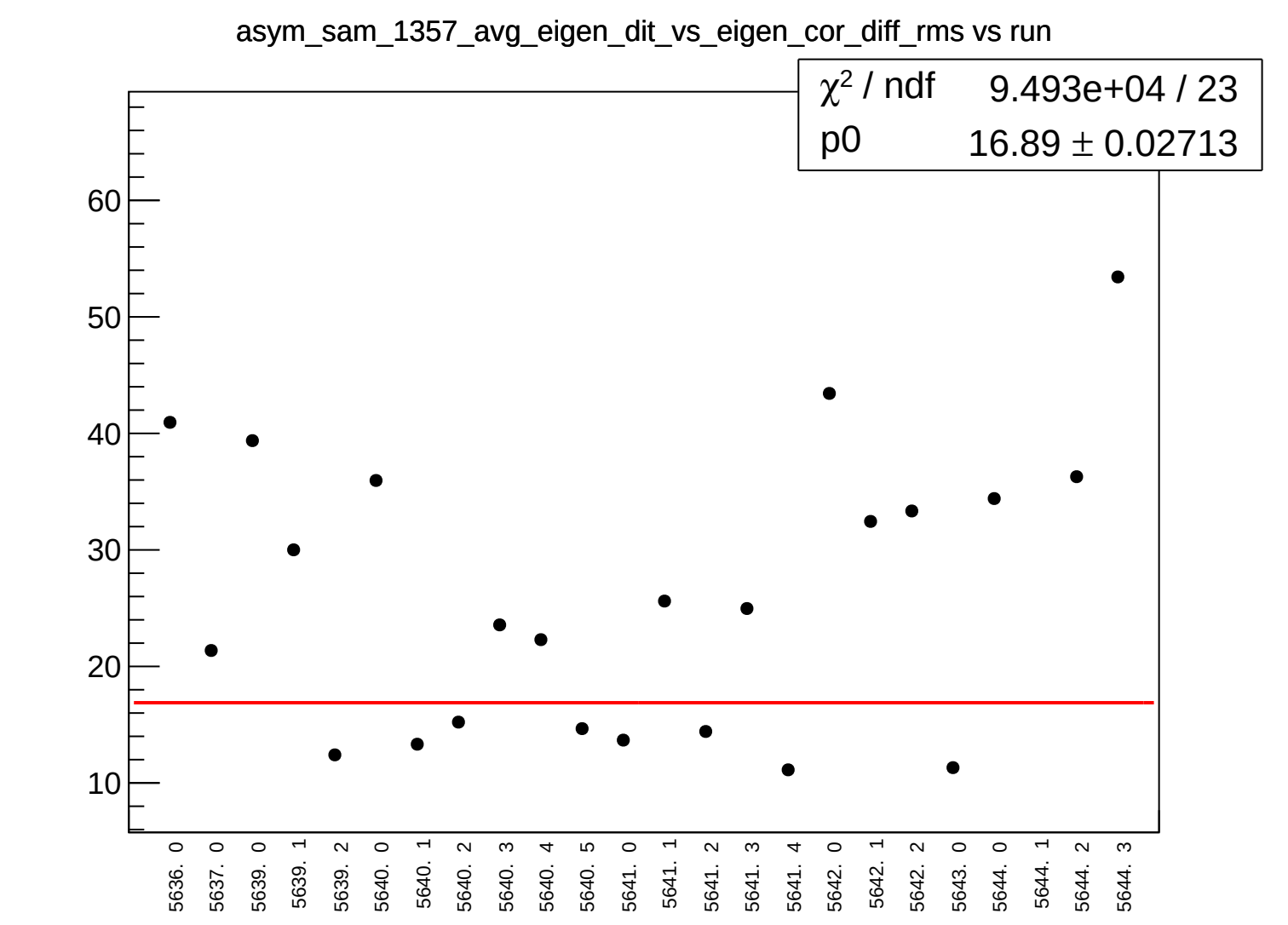

pull1D
Entries 24
Mean −0.01043
Std Dev 0.7939
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

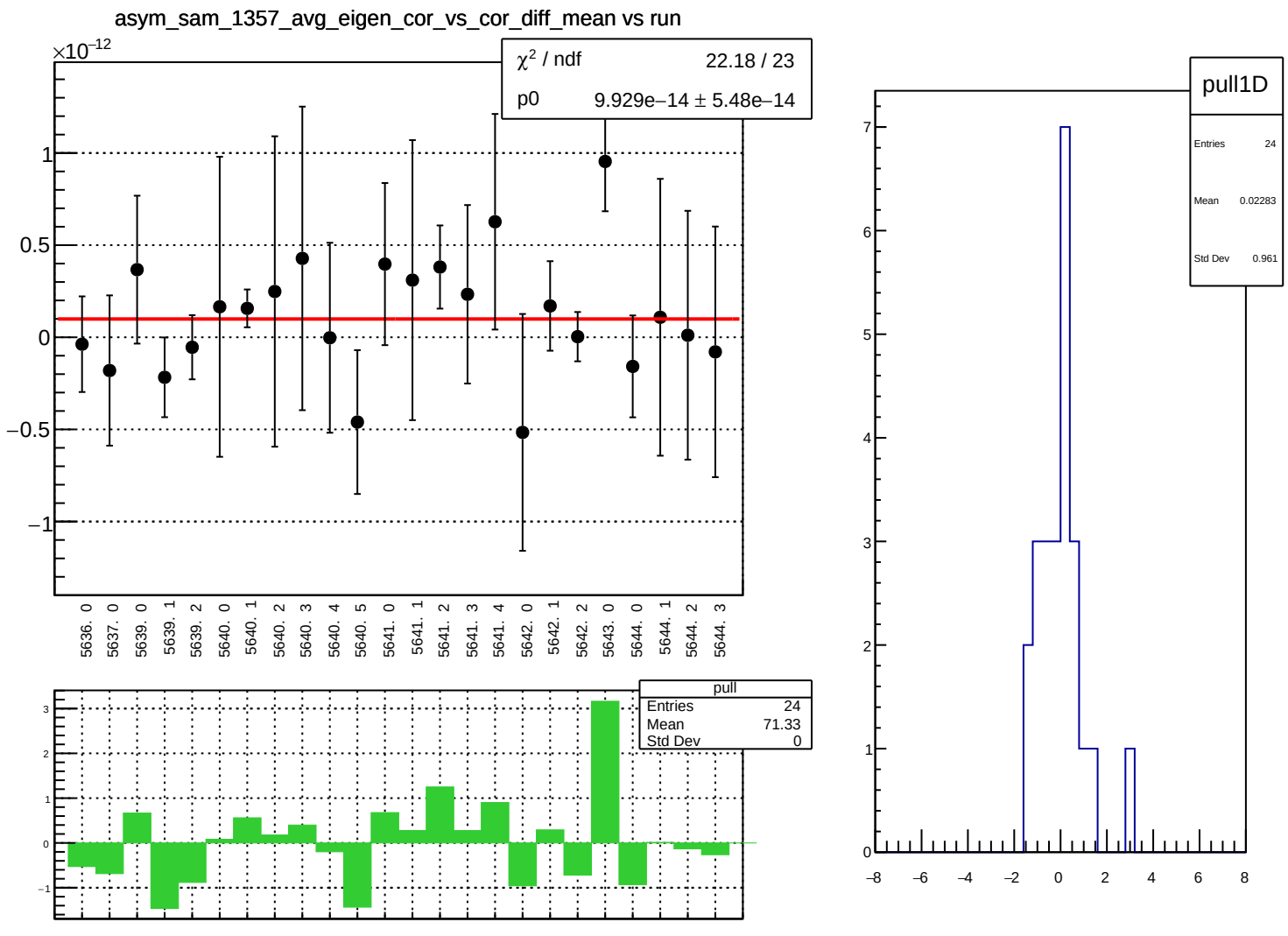

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 672.8 / 23
p0 0.0003231 ± 4.656e−07
0.36
0.35
0.34
0.33
0.32
0.31
0.3
0.29
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

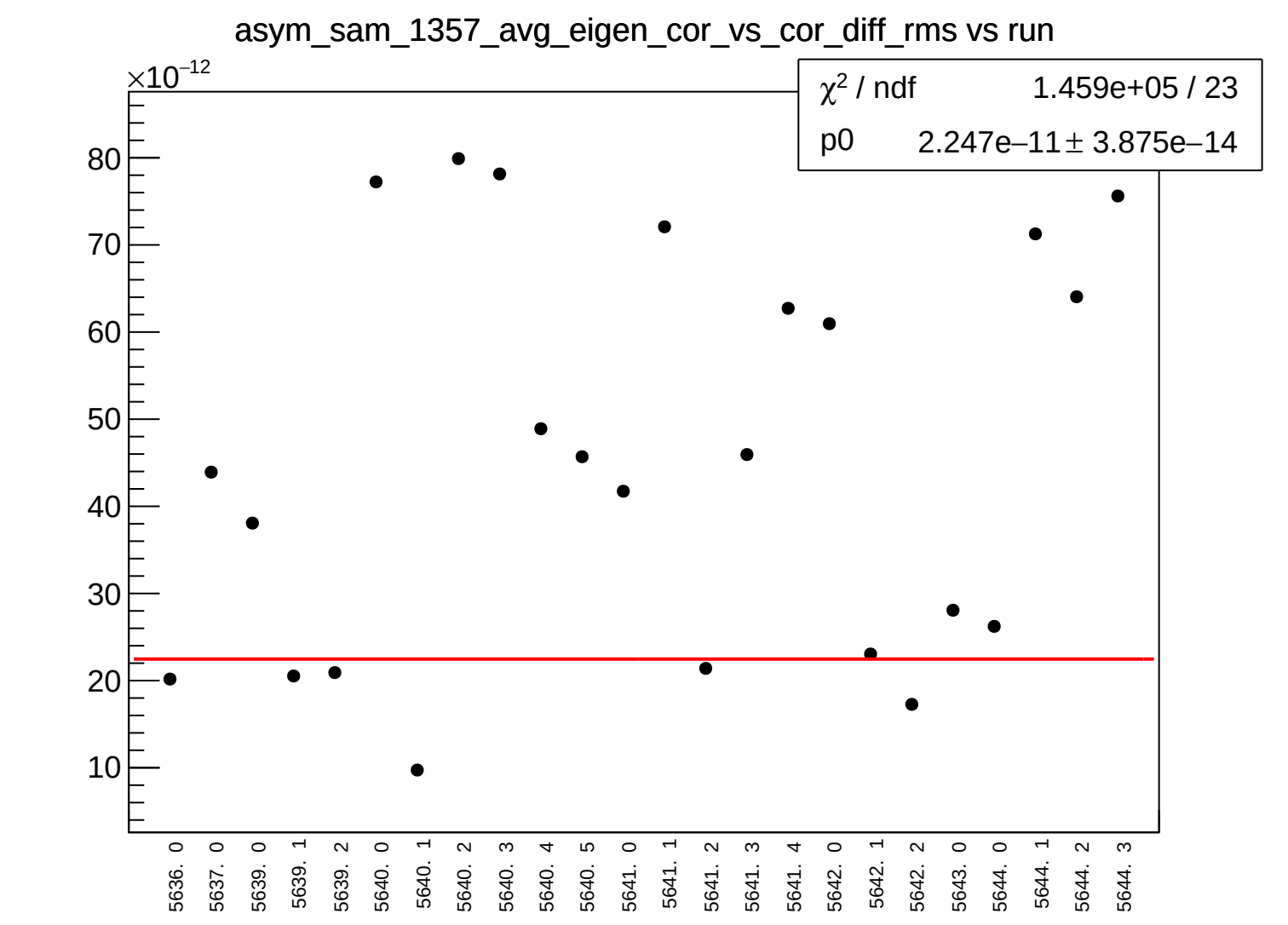

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 20.9 / 23
p0 0.05808 ± 0.03837
1
0.5
0
−0.5
−1
−1.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 10.21
Std Dev 12.53
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.06225
Std Dev 0.9312
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

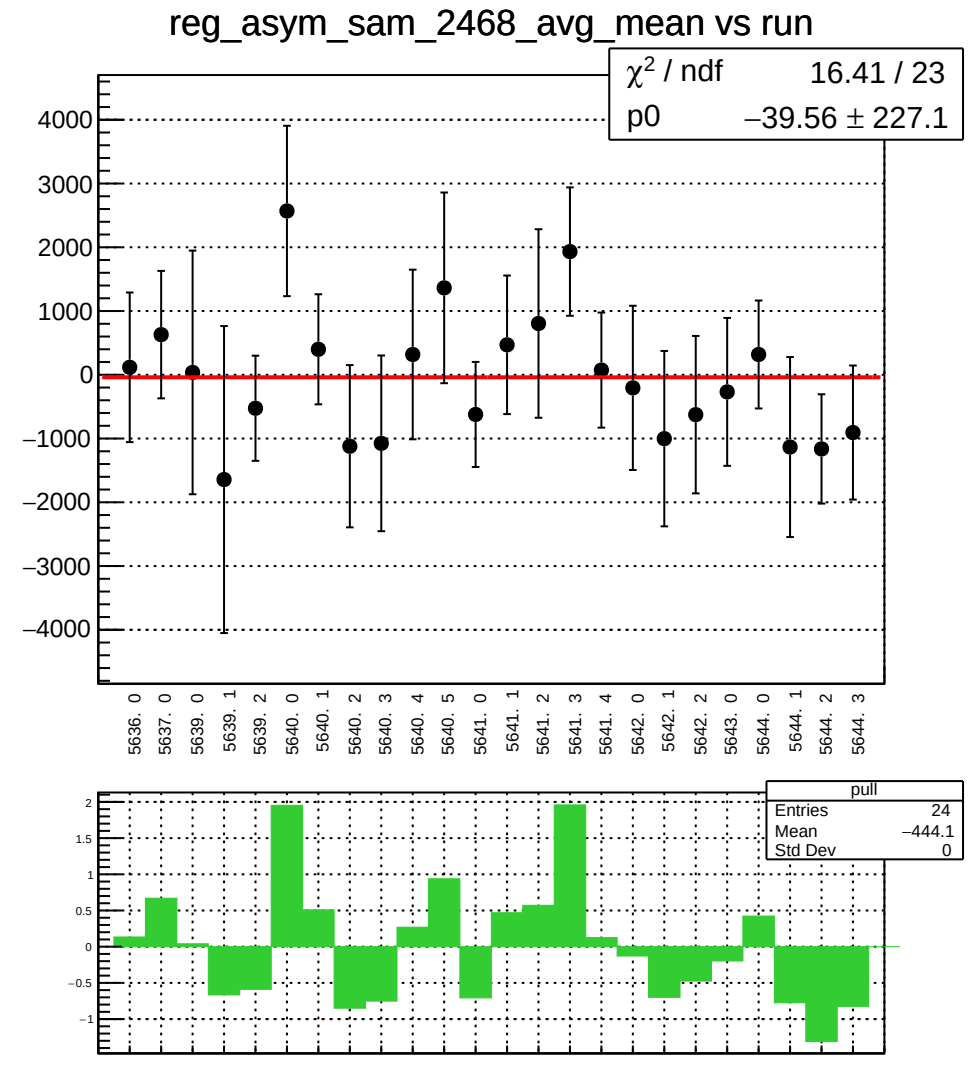

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.493e+04 / 23
p0 16.89 ± 0.02713
60
50
40
30
20
10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 20.9 / 23
p0 0.05808 ± 0.03837
1
0.5
0
−0.5
−1
−1.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 10.21
Std Dev 12.53
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.06225
Std Dev 0.9312
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.493e+04 / 23
p0 16.89 ± 0.02713
60
50
40
30
20
10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 22.18 / 23
p0 9.929e−14 ± 5.48e−14
1
0.5
0
−0.5
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 71.33
Std Dev 0
3
2
1
0
−1
pull1D
Entries 24
Mean 0.02283
Std Dev 0.961
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.459e+05 / 23
p0 2.247e−11 ± 3.875e−14
80
70
60
50
40
30
20
10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


reg_asym_sam_2468_avg_mean vs run
χ² / ndf 16.41 / 23
p0 −39.56 ± 227.1
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −444.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.003582
Std Dev 0.827
7
6
5
4
3
2
1
0
−8
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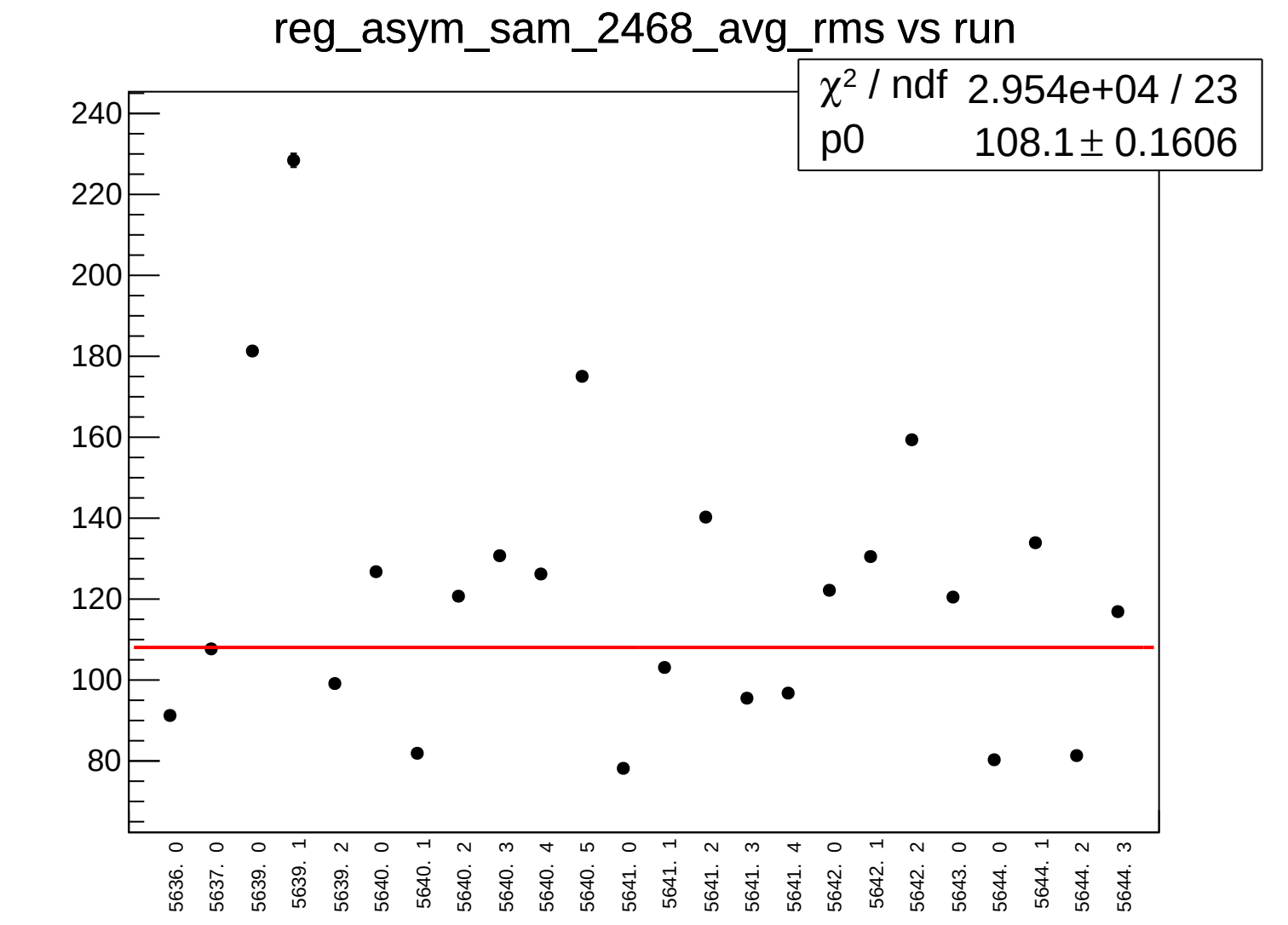
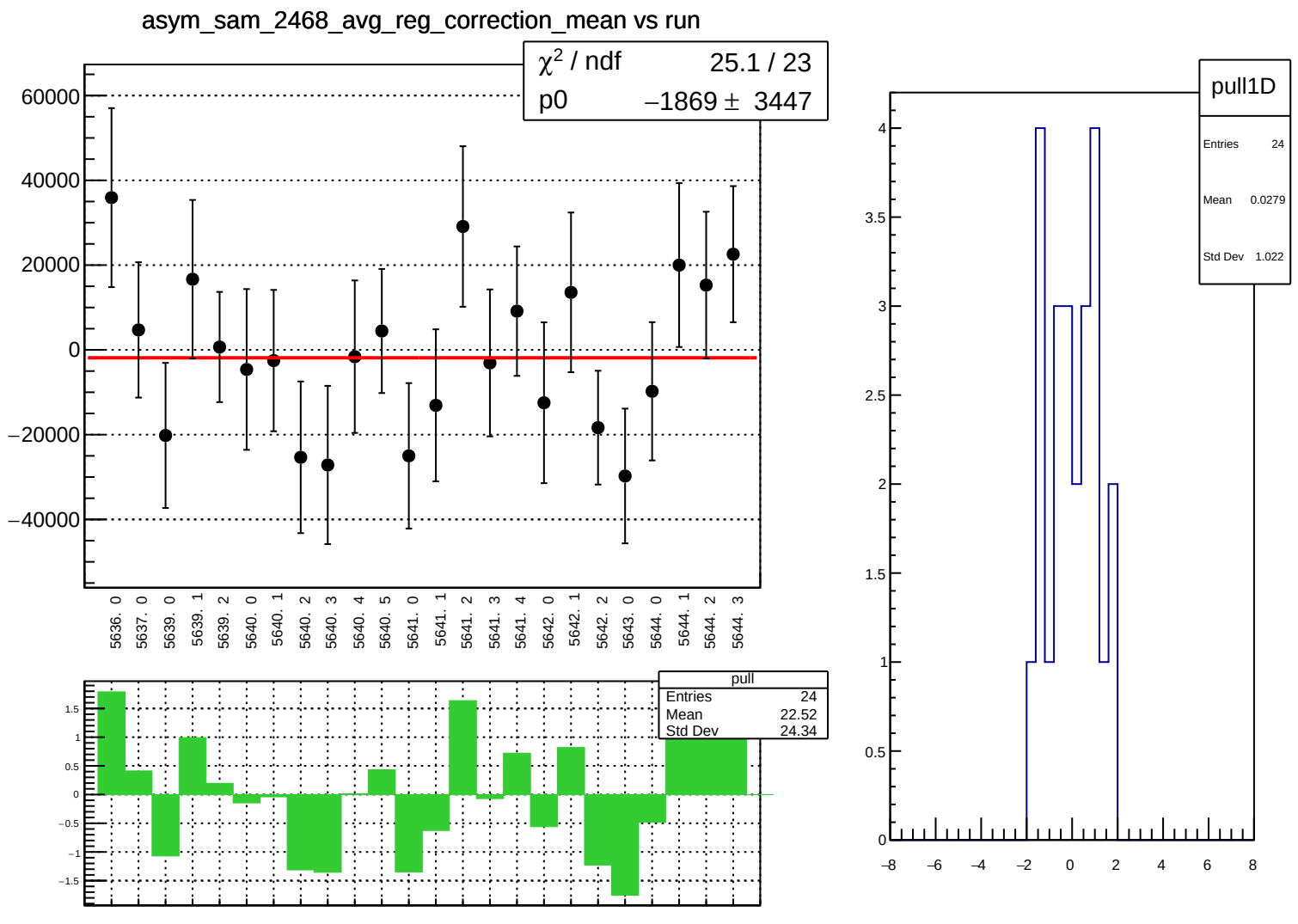
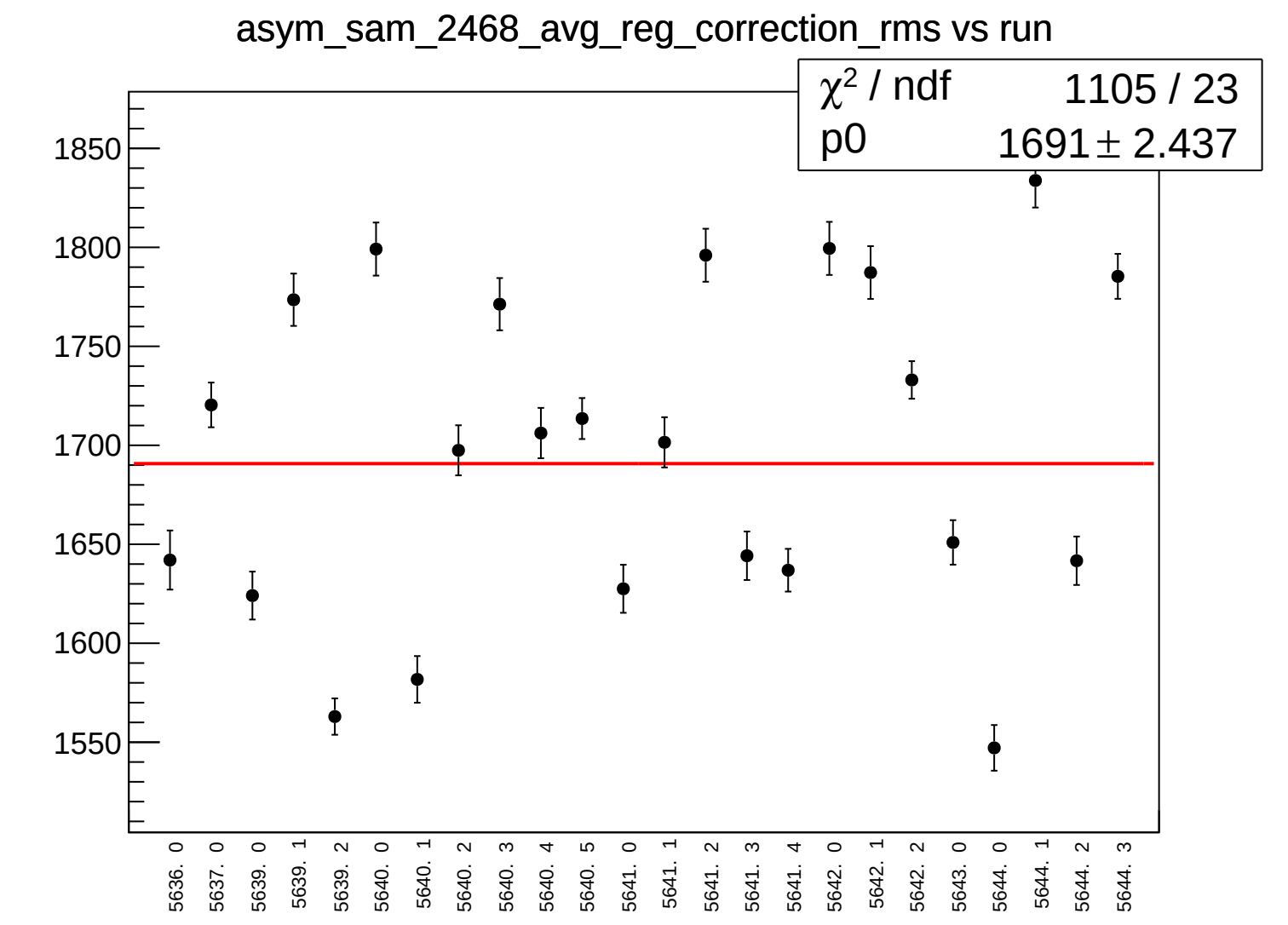
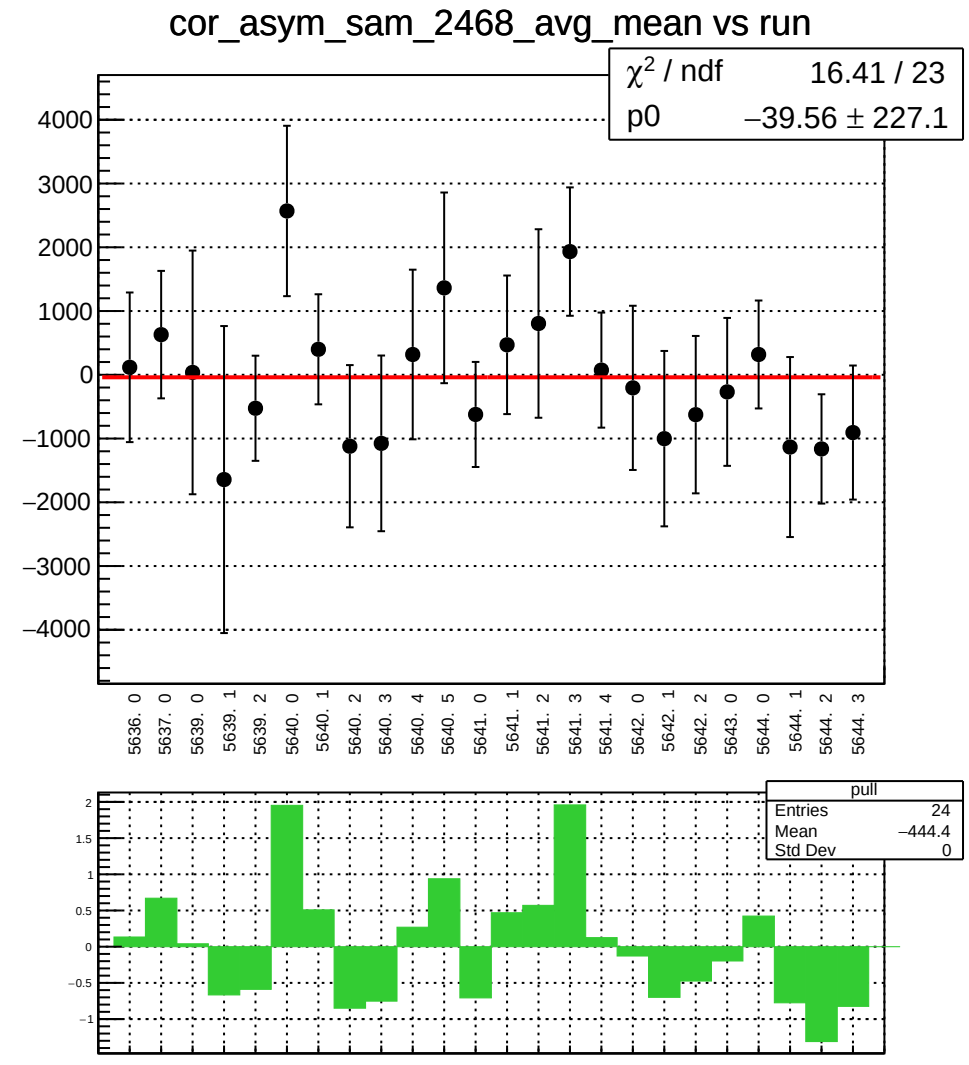
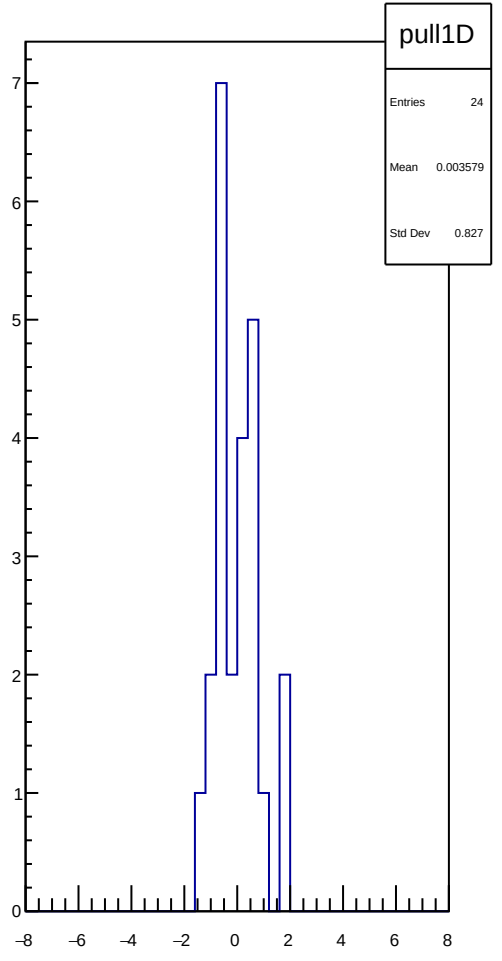
−4
−2
0
2
4
6
8

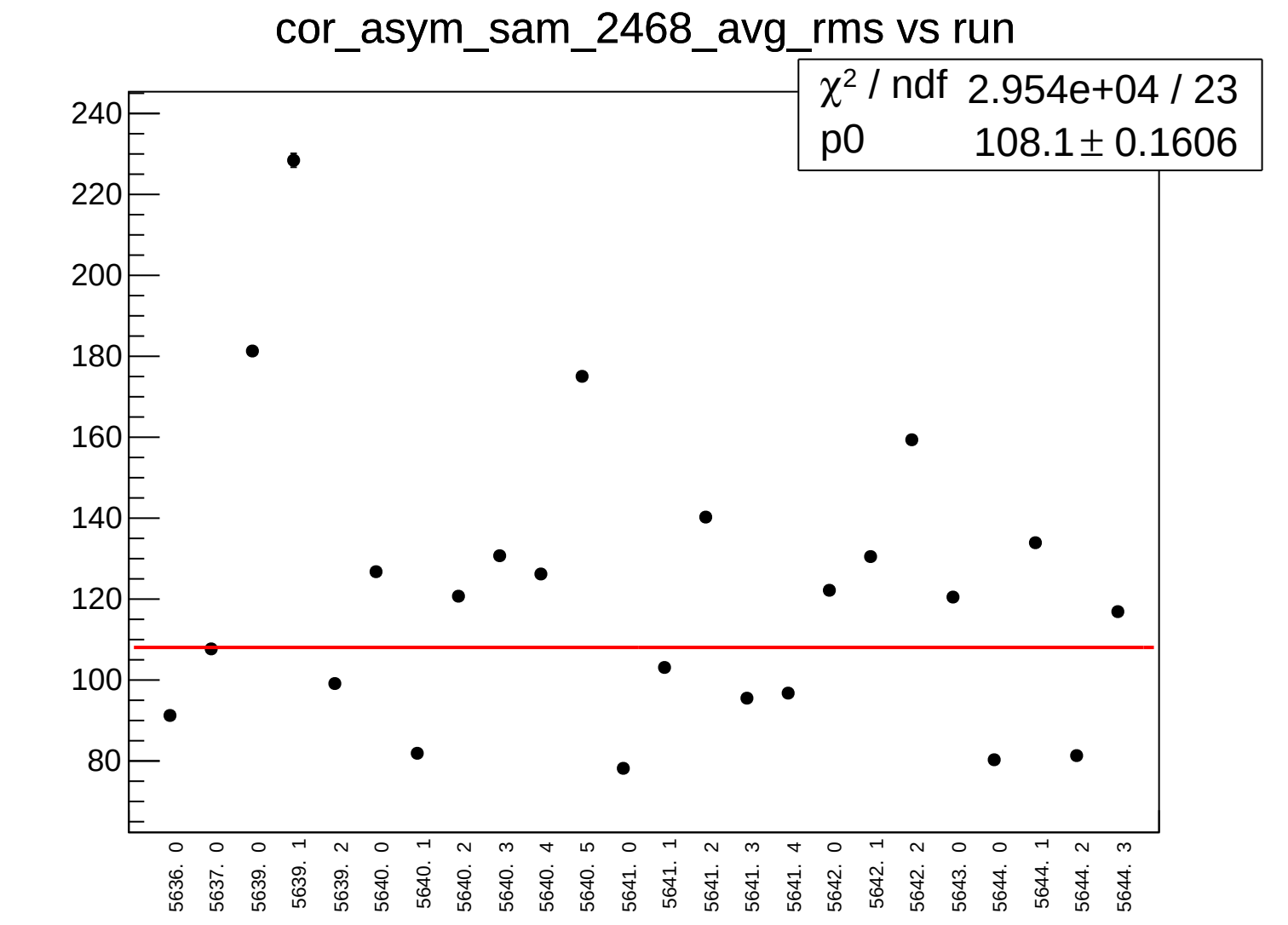

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 2.954e+04 / 23
p0 108.1 ± 0.1606
240
220
200
180
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

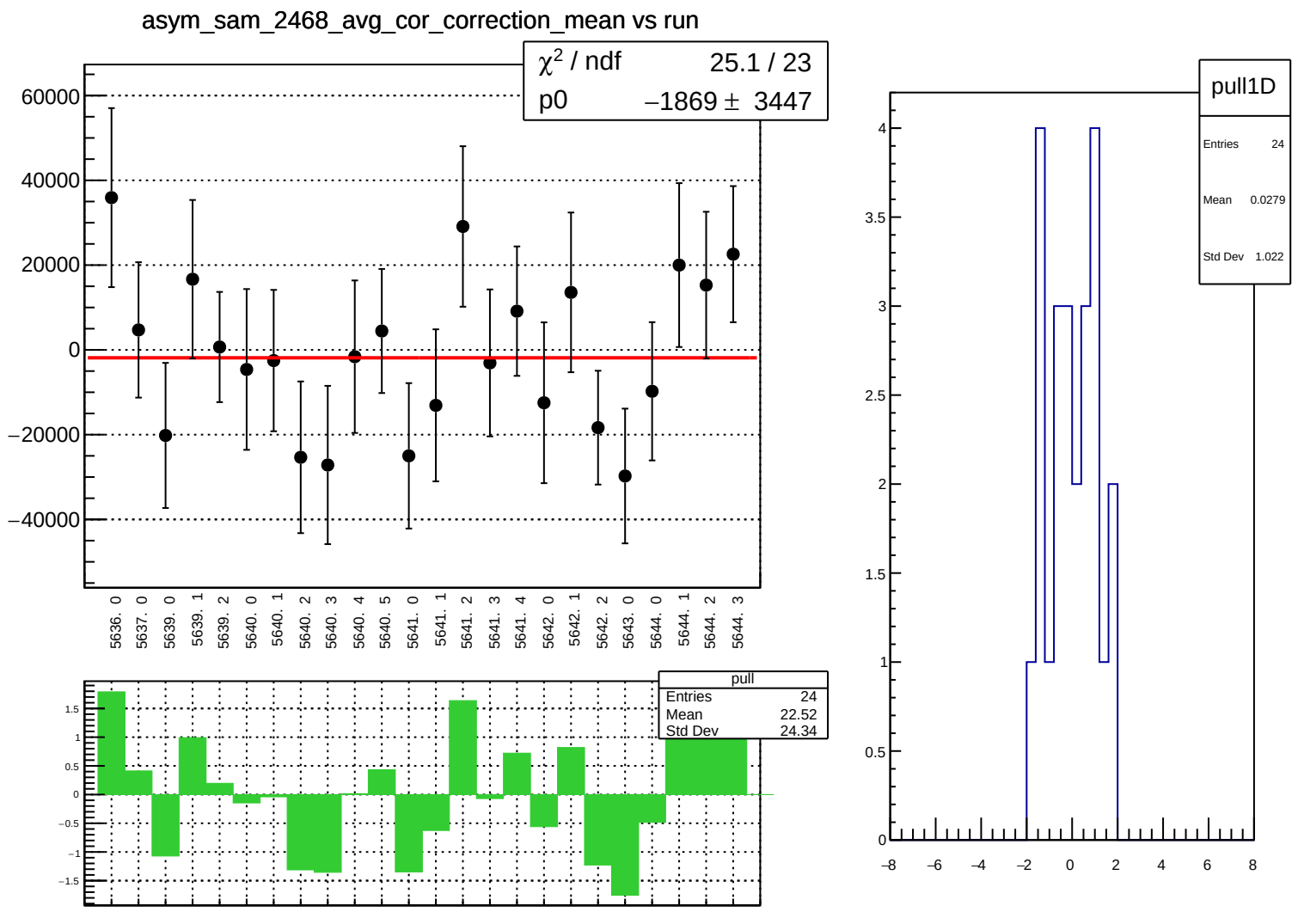

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 25.1 / 23
p0 −1869 ± 3447
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 22.52
Std Dev 24.34
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.0279
Std Dev 1.022
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

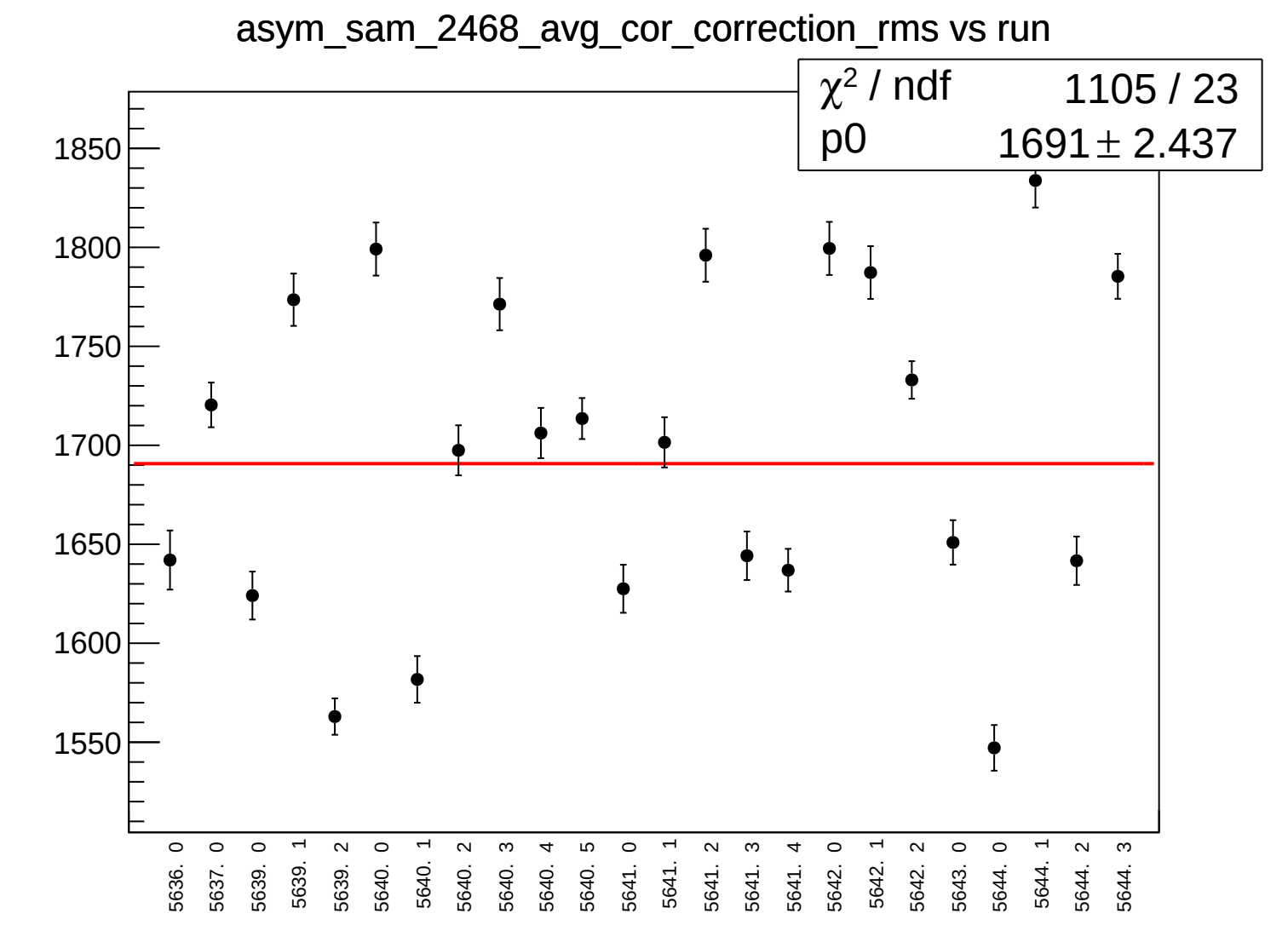

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 1105 / 23
p0 1691 ± 2.437
1850
1800
1750
1700
1650
1600
1550
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


cor_asym_sam_2468_avg_mean vs run
χ² / ndf 16.41 / 23
p0 −39.56 ± 227.1
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −444.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 24
Mean 0.003579
Std Dev 0.827
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_2468_avg_rms vs run
χ² / ndf 2.954e+04 / 23
p0 108.1 ± 0.1606
240
220
200
180
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 25.1 / 23
p0 −1869 ± 3447
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 22.52
Std Dev 24.34
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.0279
Std Dev 1.022
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 1105 / 23
p0 1691 ± 2.437
1850
1800
1750
1700
1650
1600
1550
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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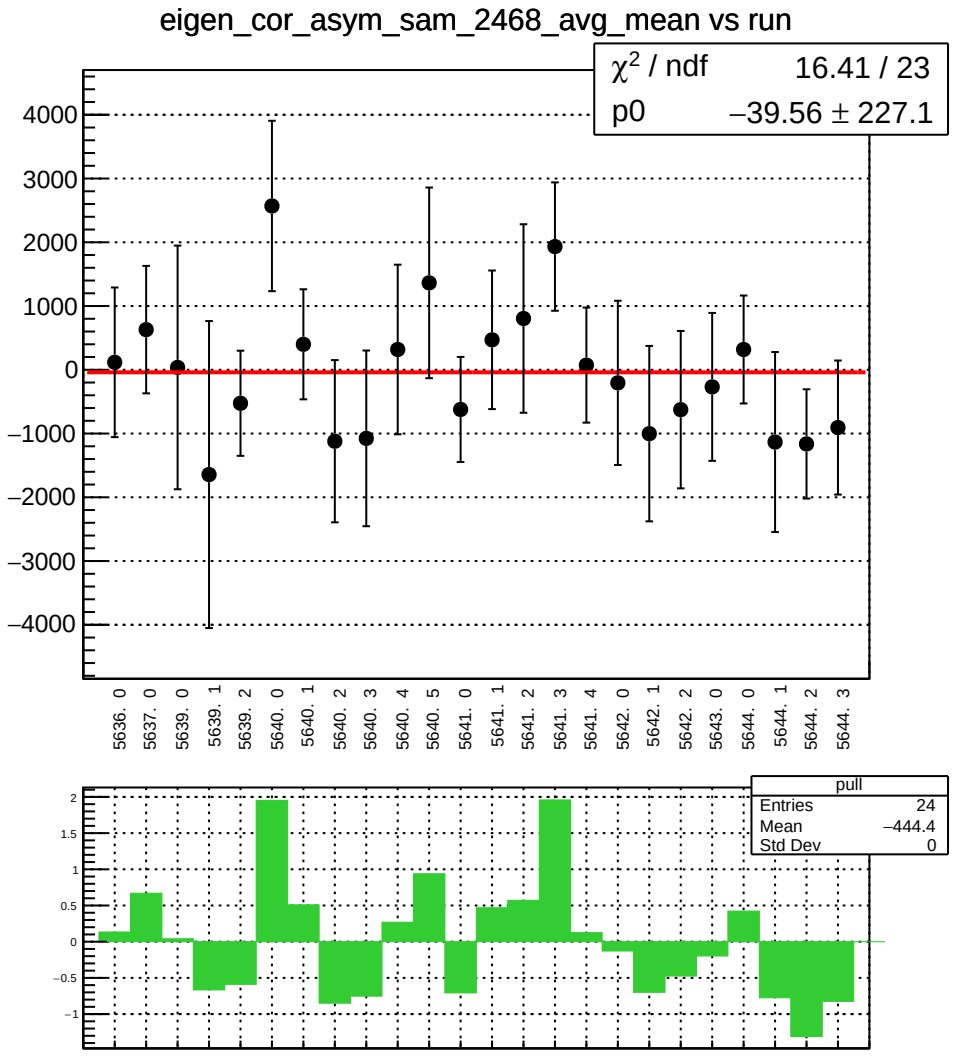
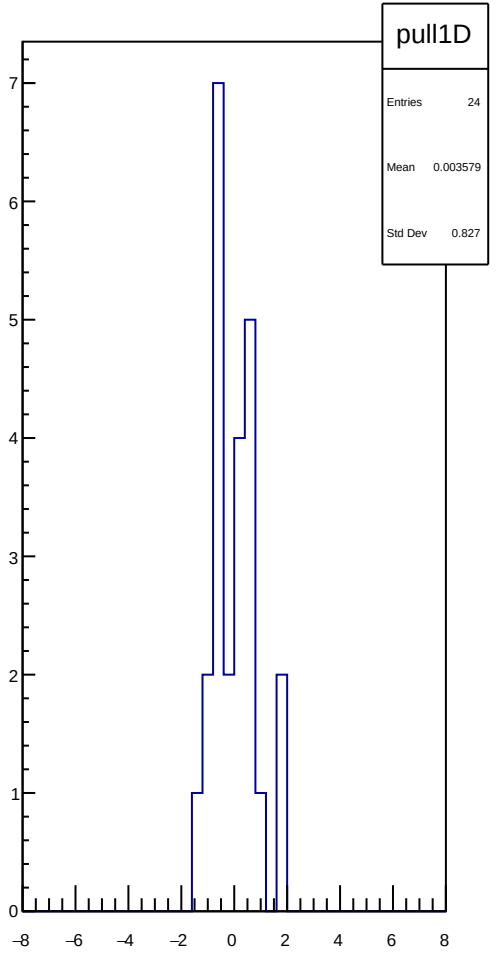
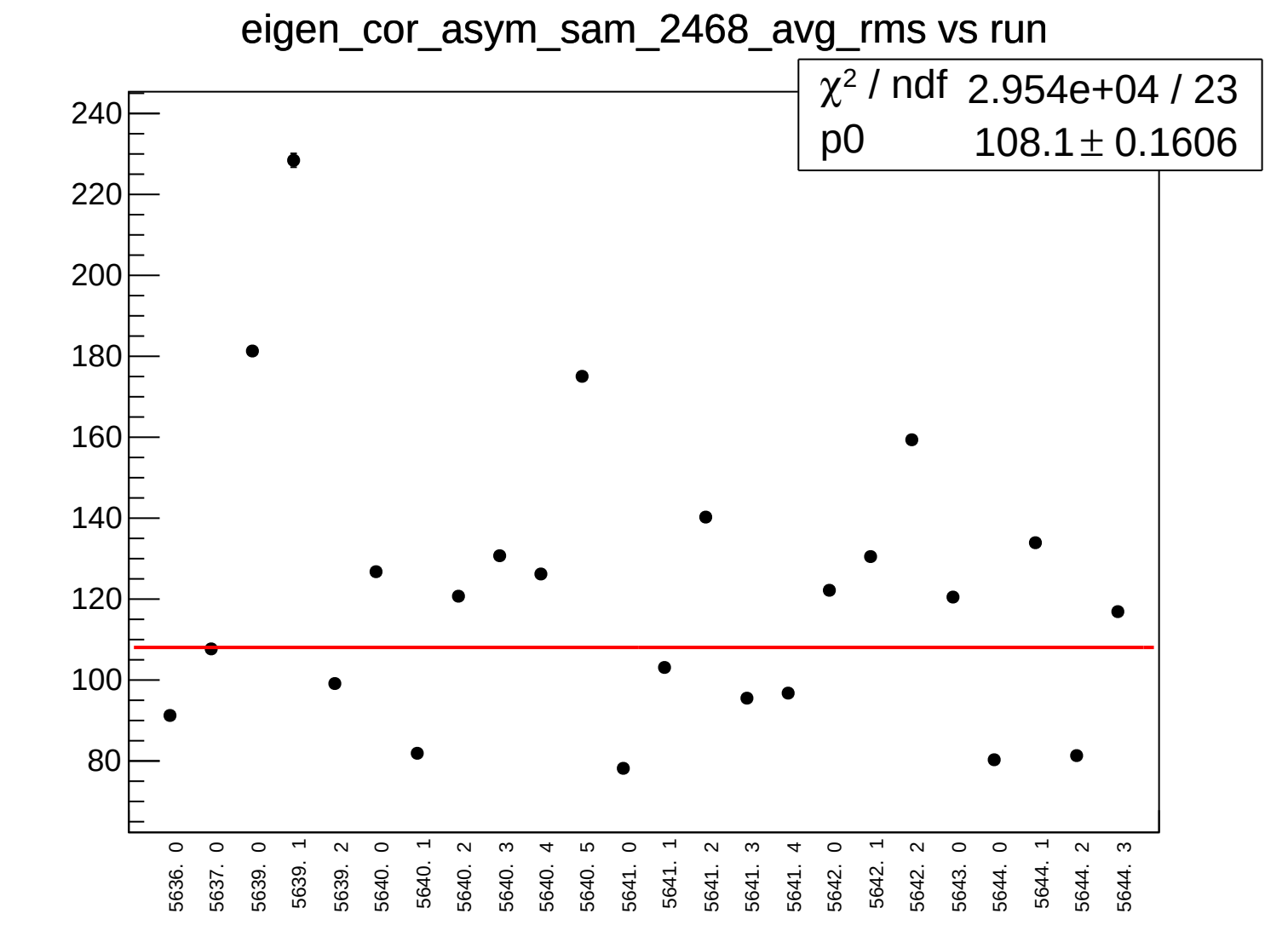
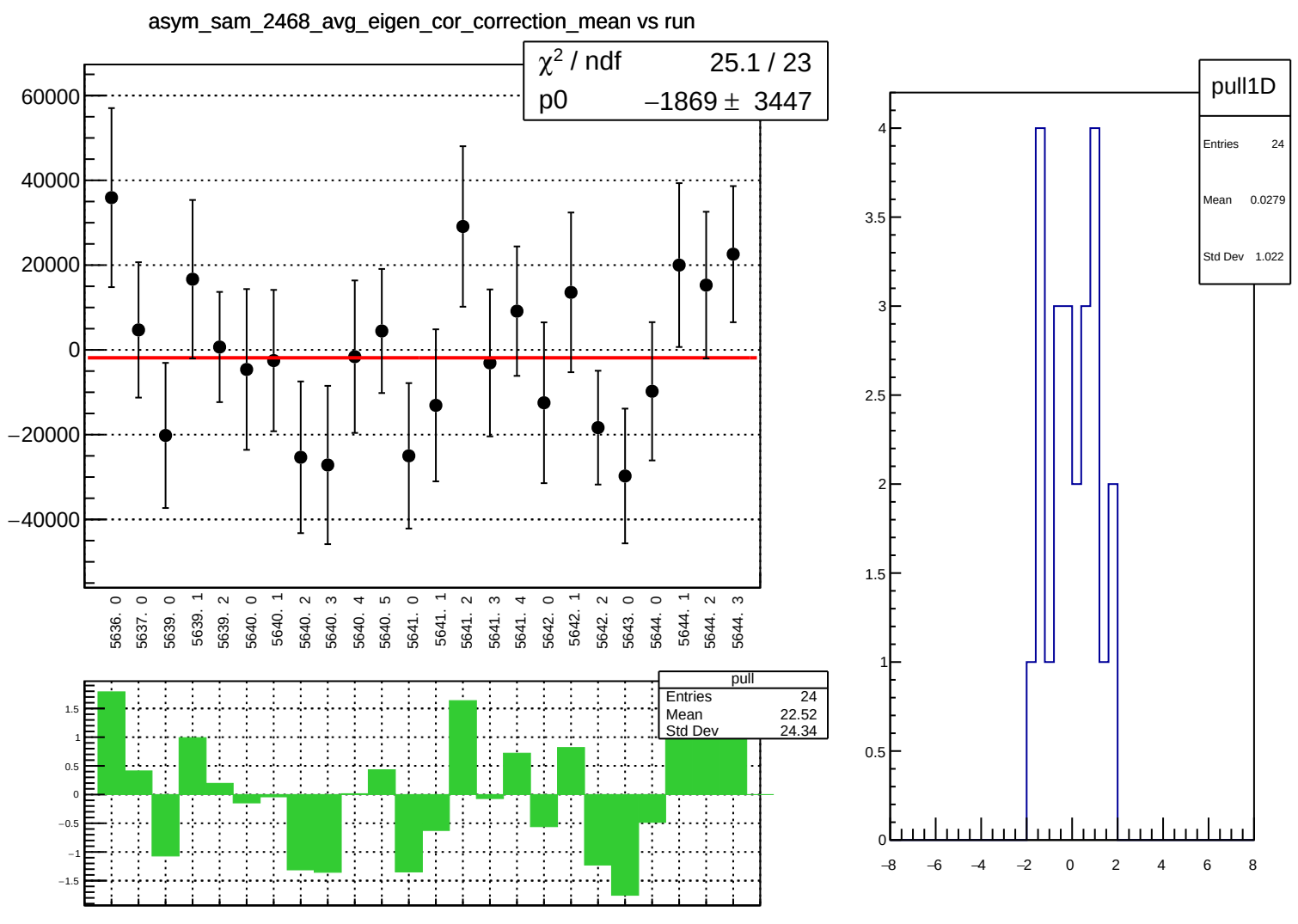
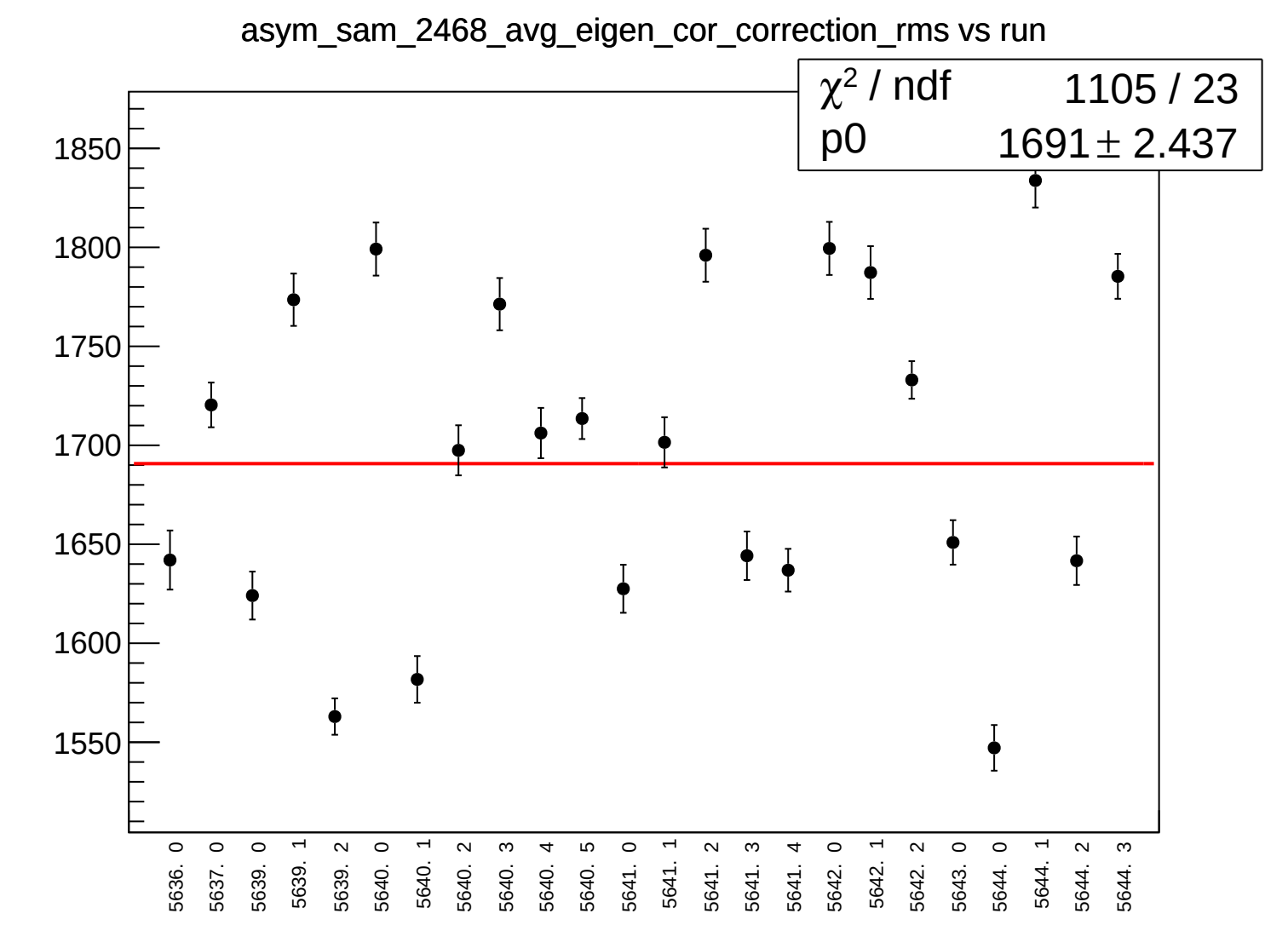
5644. 2
5644. 3

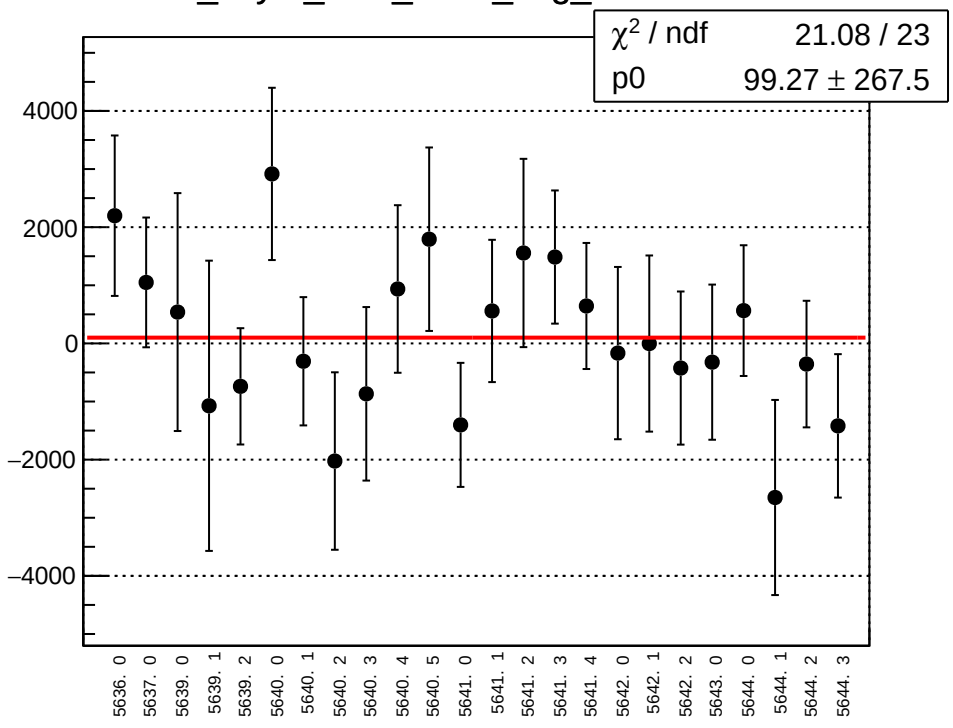

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 16.41 / 23
p0 −39.56 ± 227.1
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −444.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

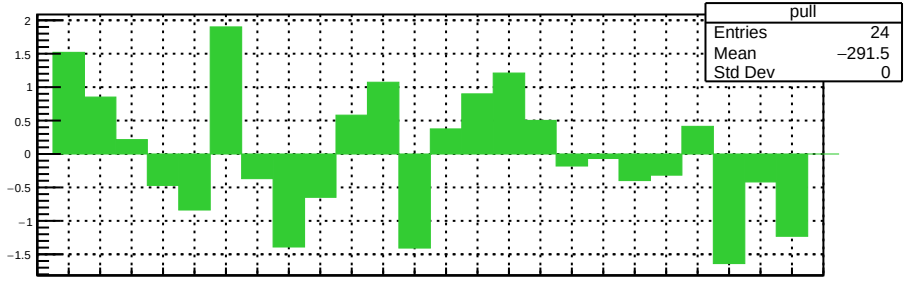

pull1D
Entries 24
Mean 0.003579
Std Dev 0.827
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

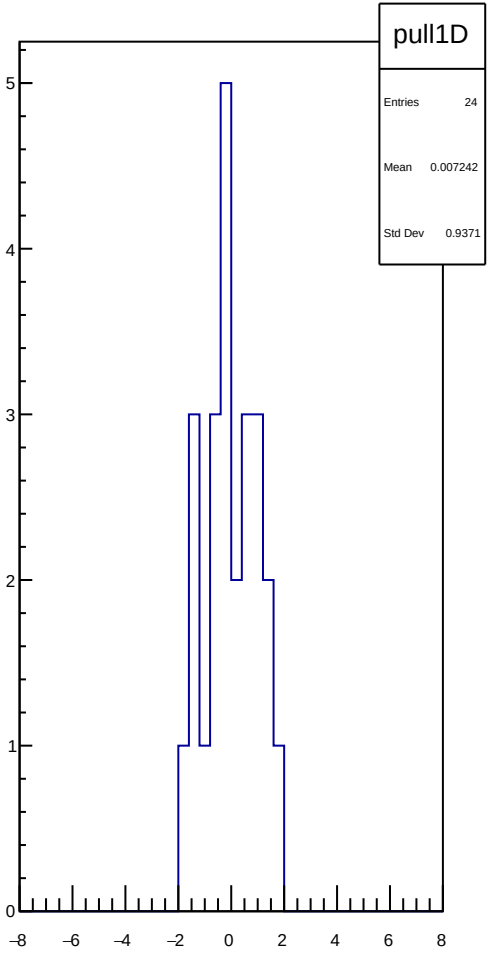

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 2.954e+04 / 23
p0 108.1 ± 0.1606
240
220
200
180
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

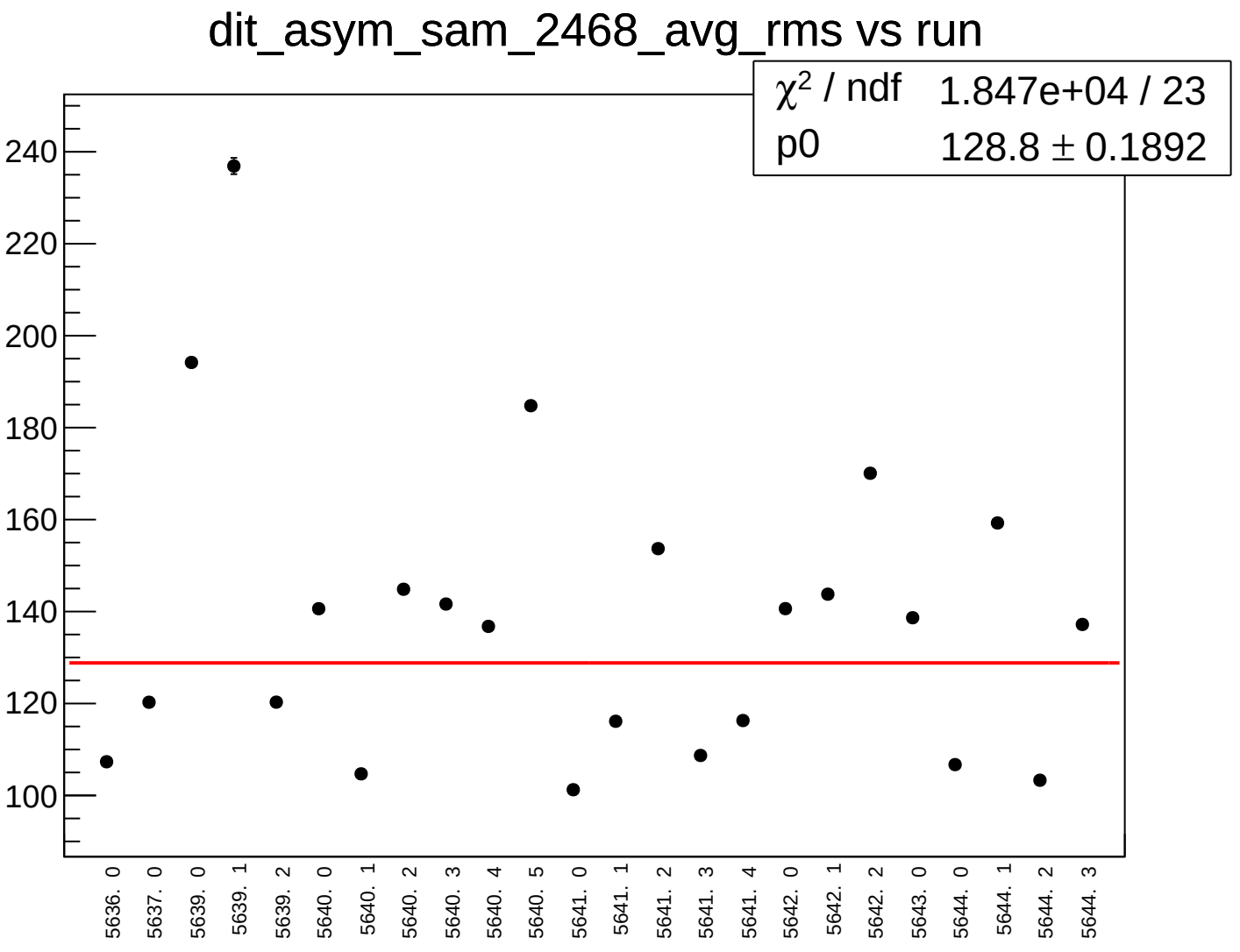

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 25.1 / 23
p0 −1869 ± 3447
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 22.52
Std Dev 24.34
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.0279
Std Dev 1.022
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

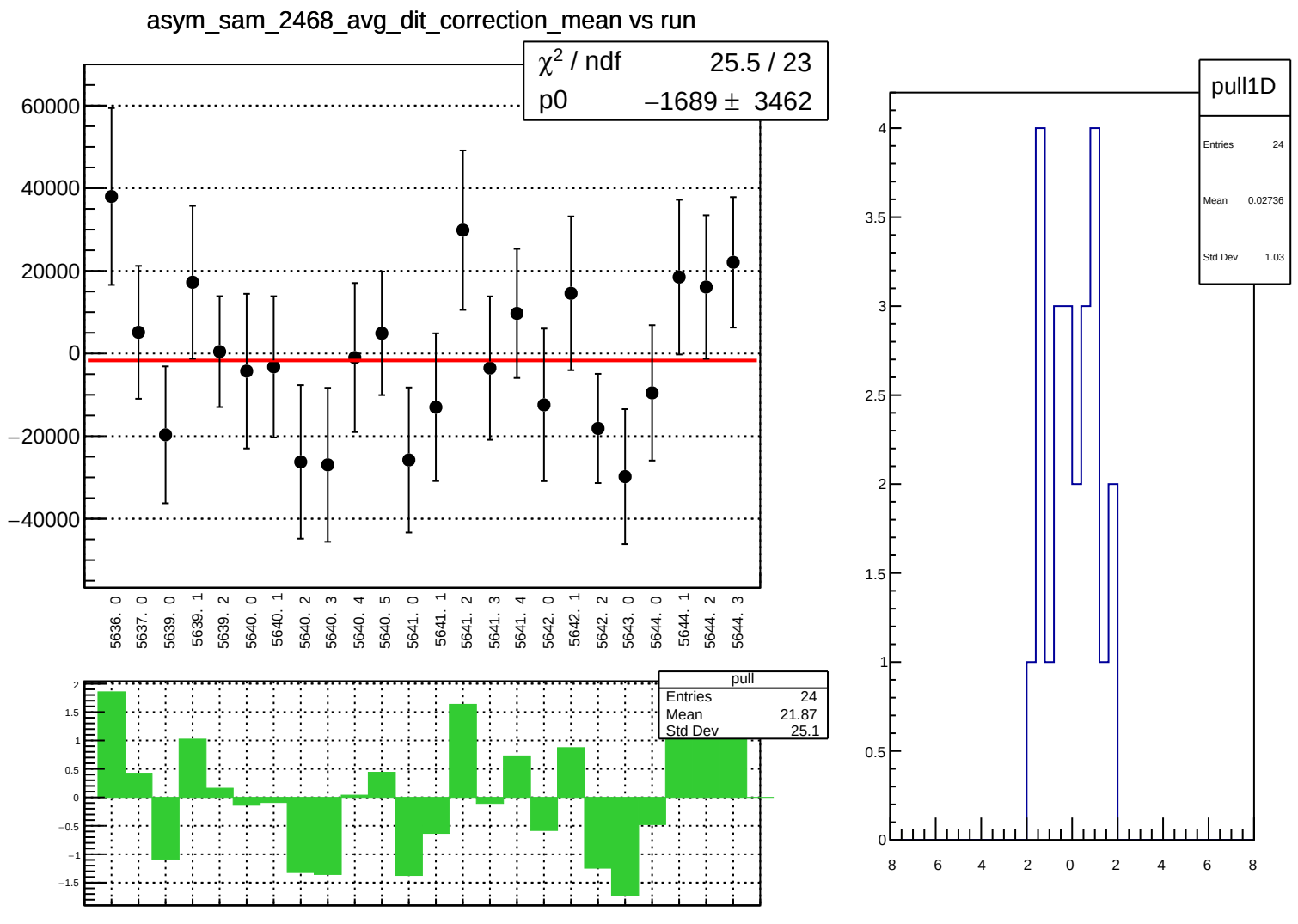

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 1105 / 23
p0 1691 ± 2.437
1850
1800
1750
1700
1650
1600
1550
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

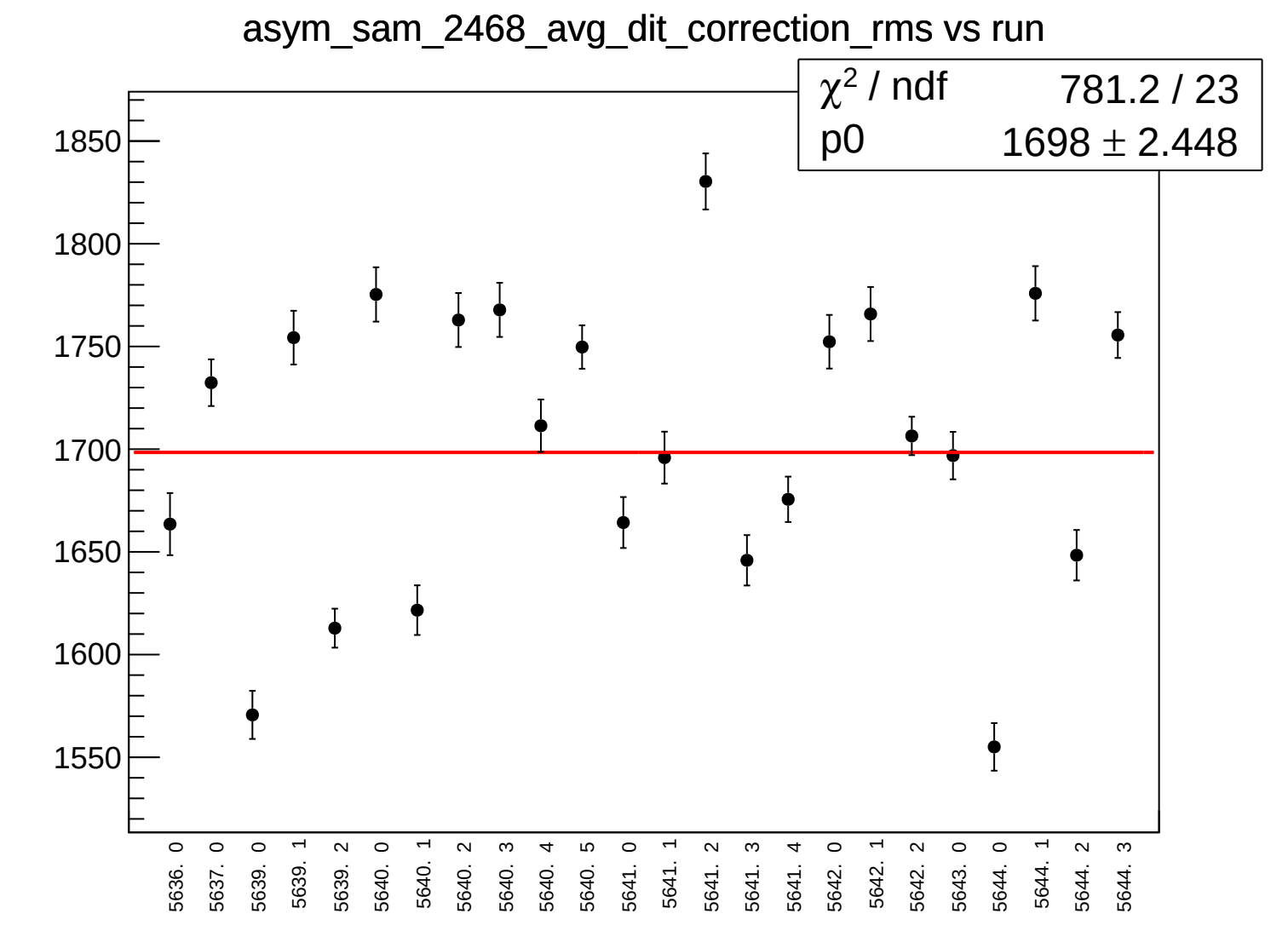

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 21.08 / 23
p0 99.27 ± 267.5
4000
2000
0
−2000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


pull
Entries 24
Mean −291.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean 0.007242
Std Dev 0.9371
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1.847e+04 / 23
p0 128.8 ± 0.1892
240
220
200
180
160
140
120
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 25.5 / 23
p0 −1689 ± 3462
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 21.87
Std Dev 25.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.02736
Std Dev 1.03
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 781.2 / 23
p0 1698 ± 2.448
1850
1800
1750
1700
1650
1600
1550
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
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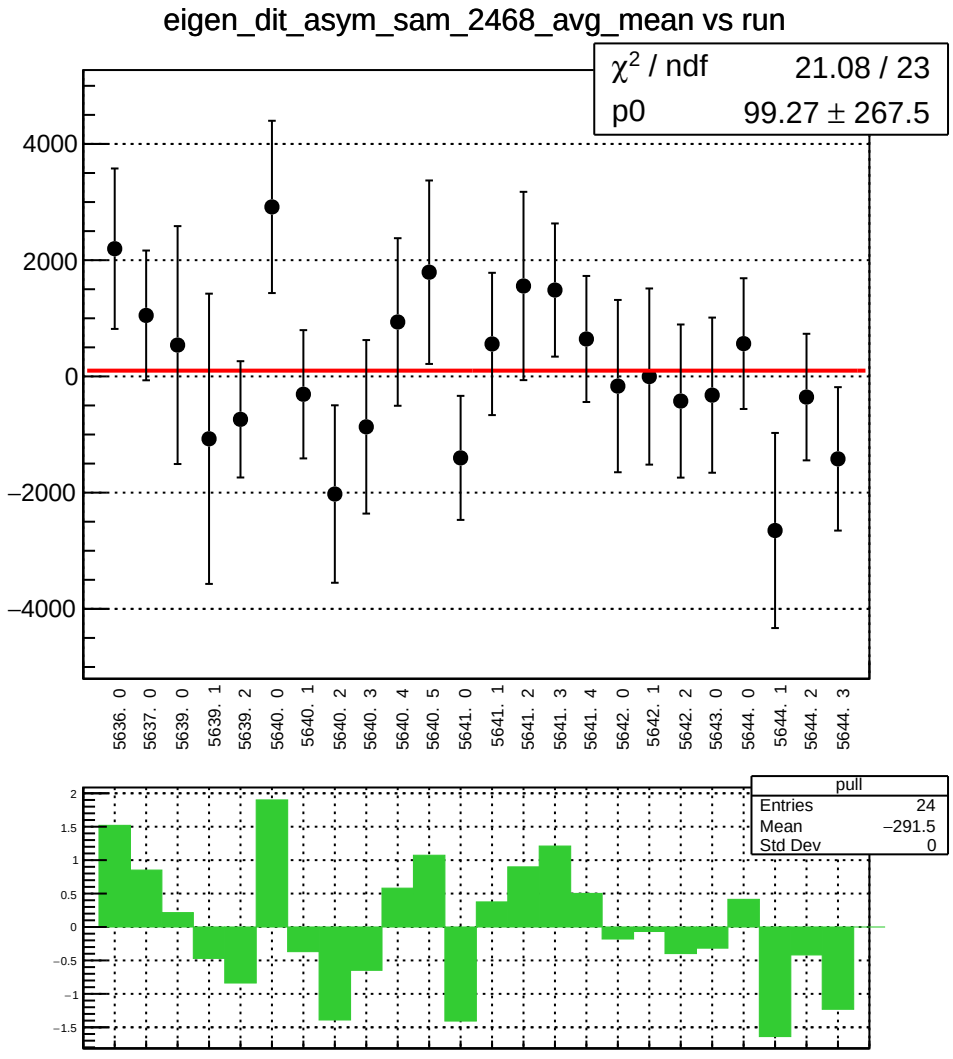
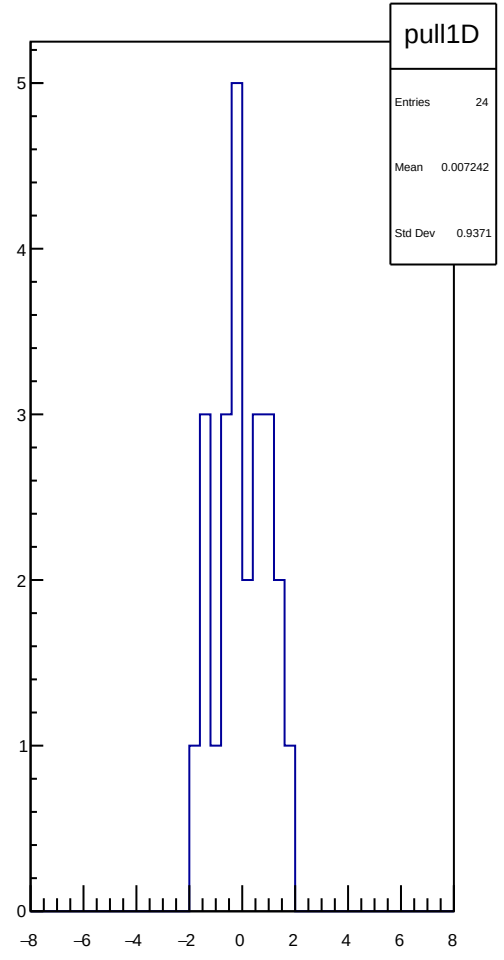
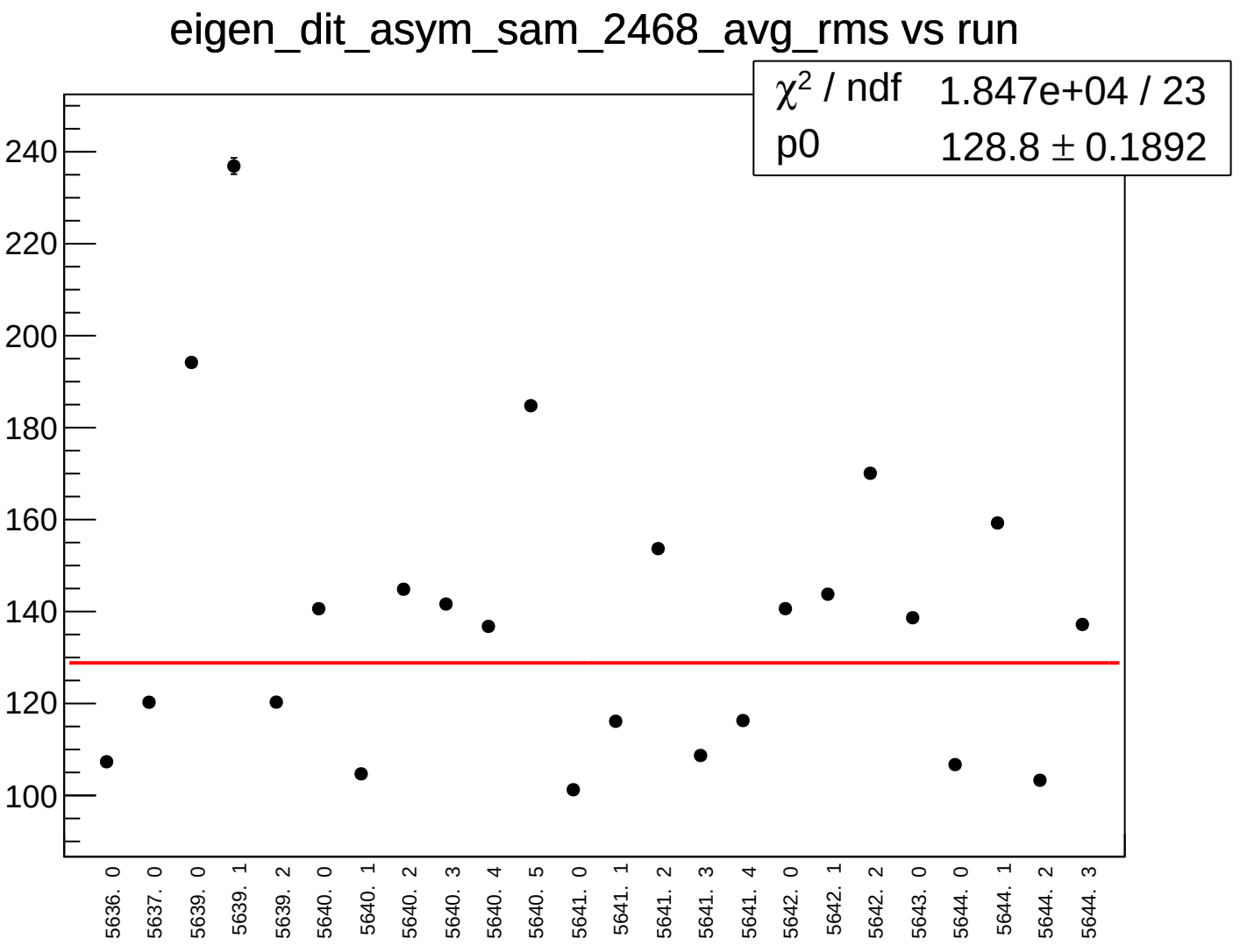
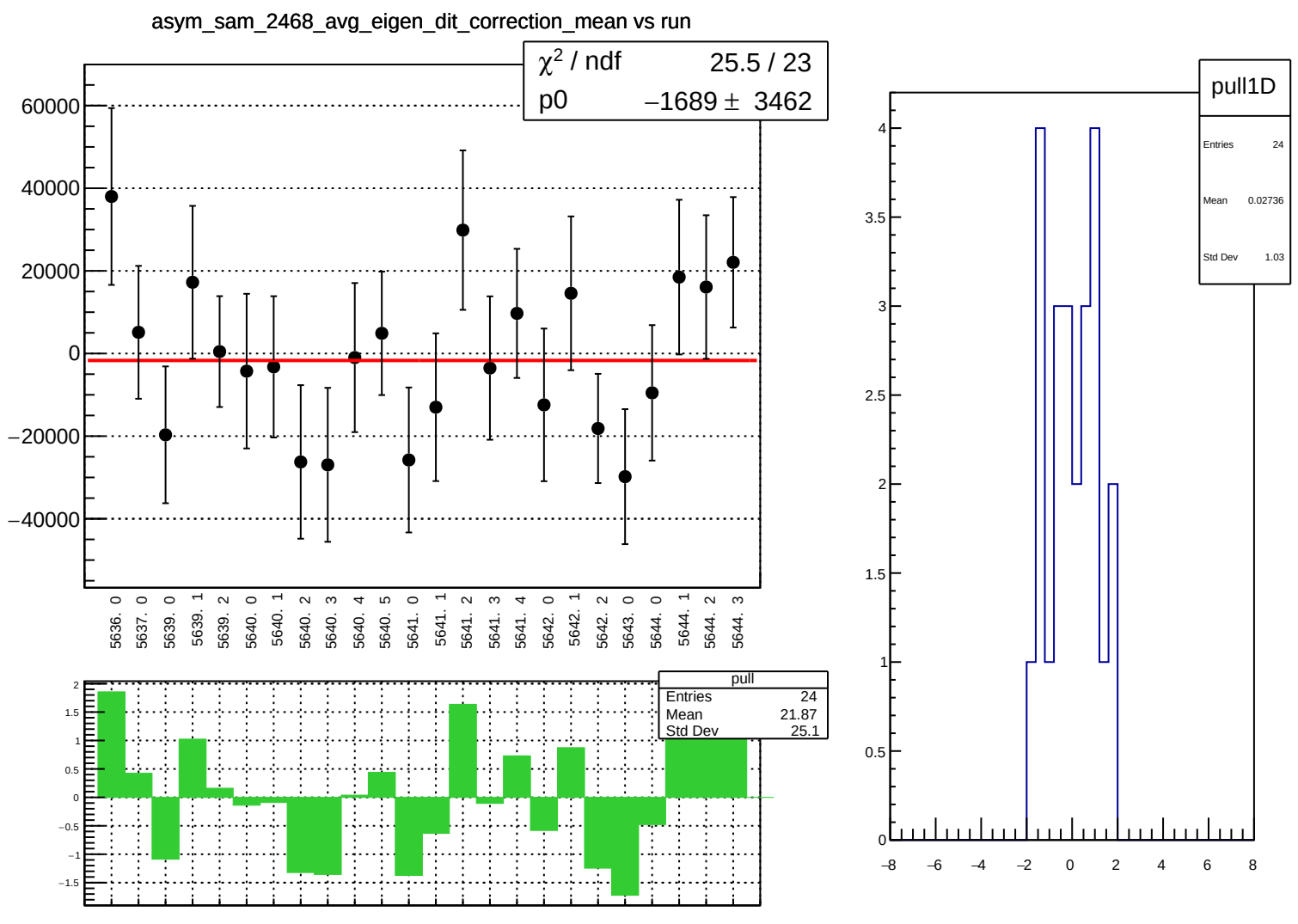
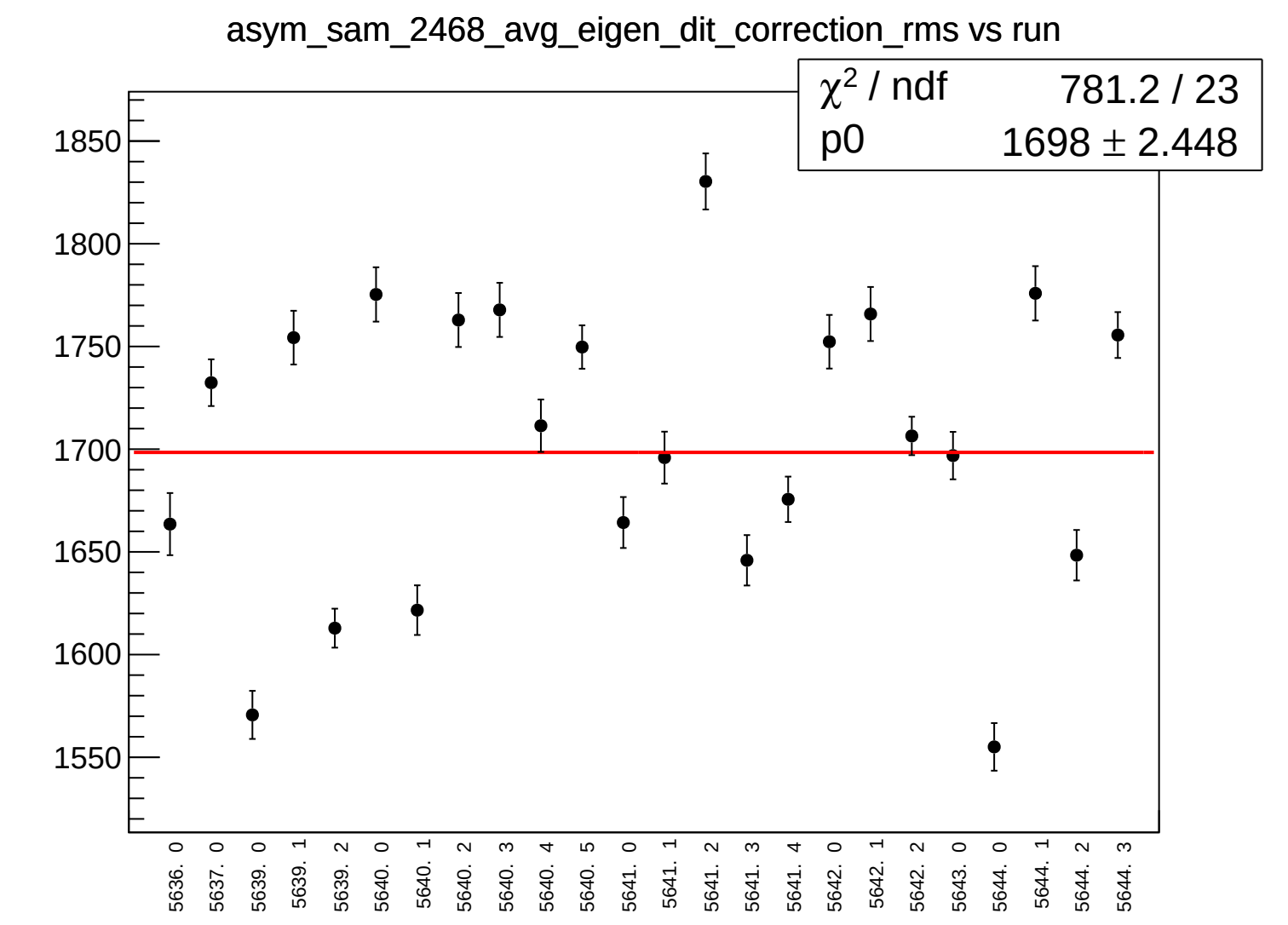
5644. 2
5644. 3

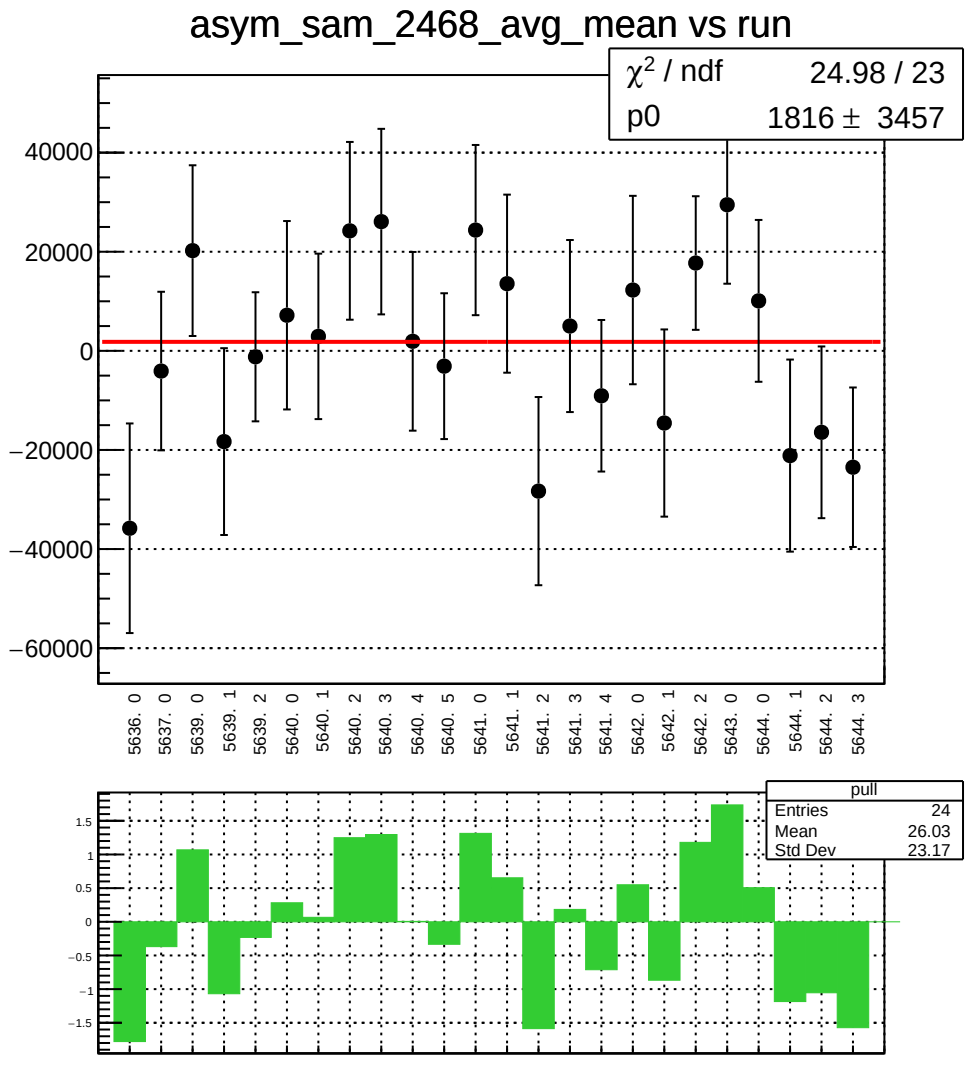

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 21.08 / 23
p0 99.27 ± 267.5
4000
2000
0
−2000
−4000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −291.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

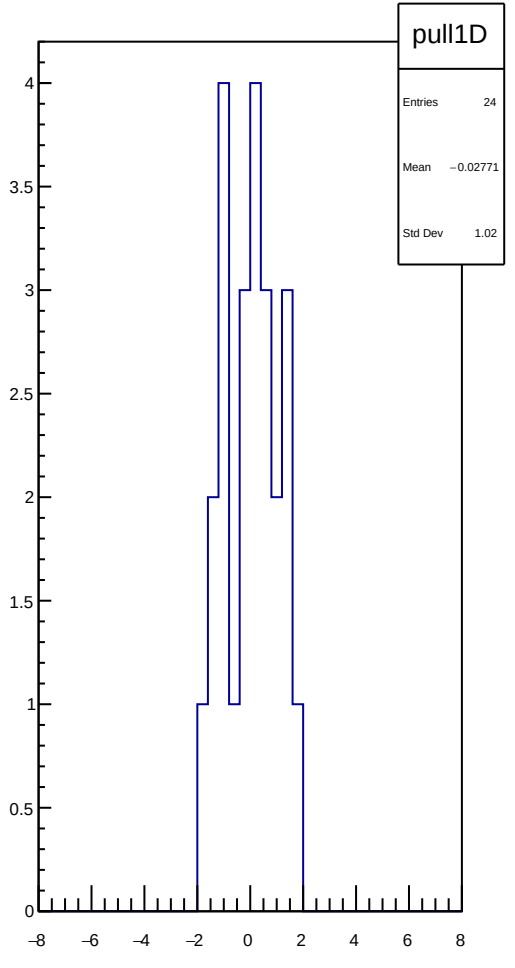

pull1D
Entries 24
Mean 0.007242
Std Dev 0.9371
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

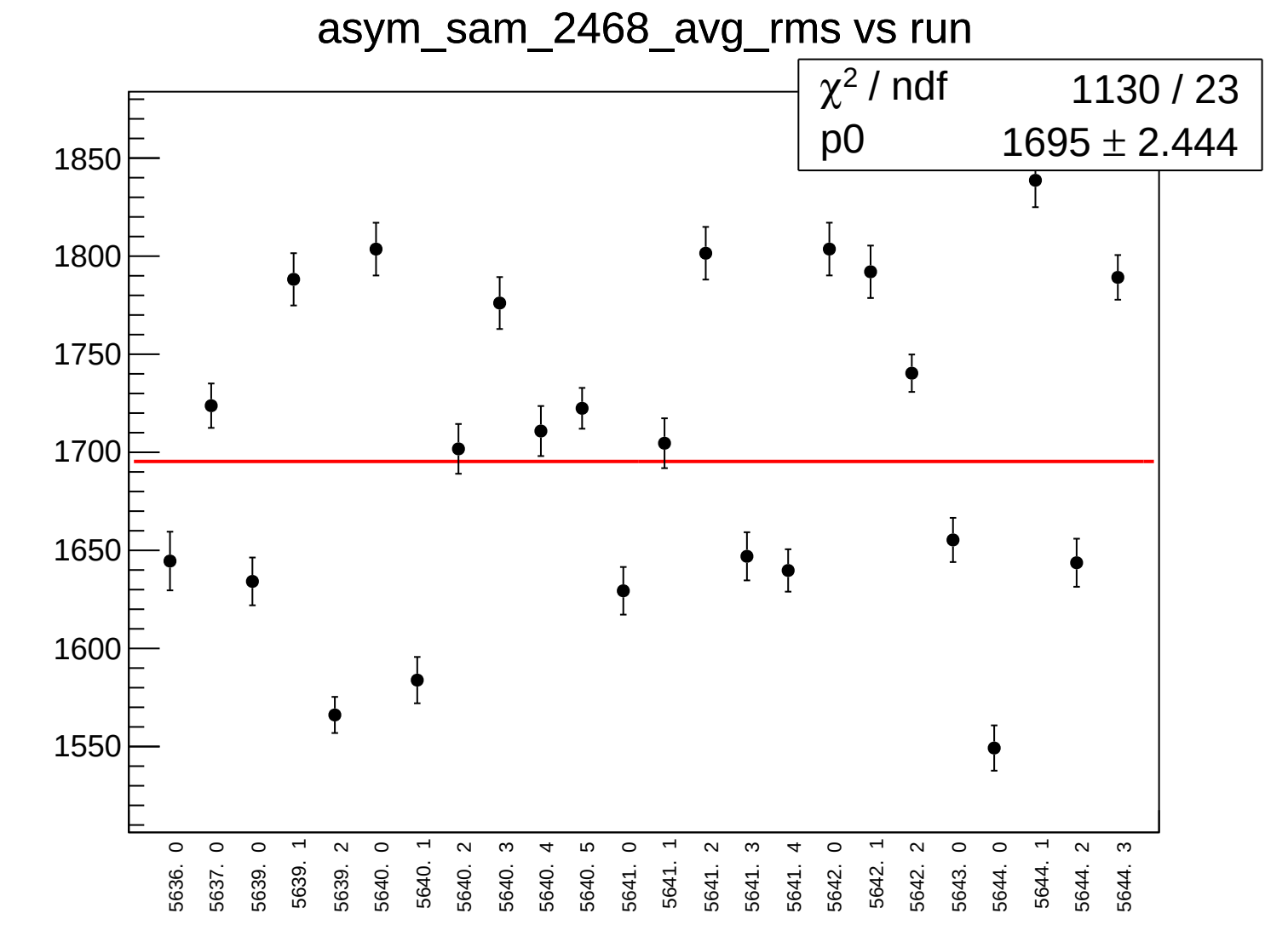

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1.847e+04 / 23
p0 128.8 ± 0.1892
240
220
200
180
160
140
120
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

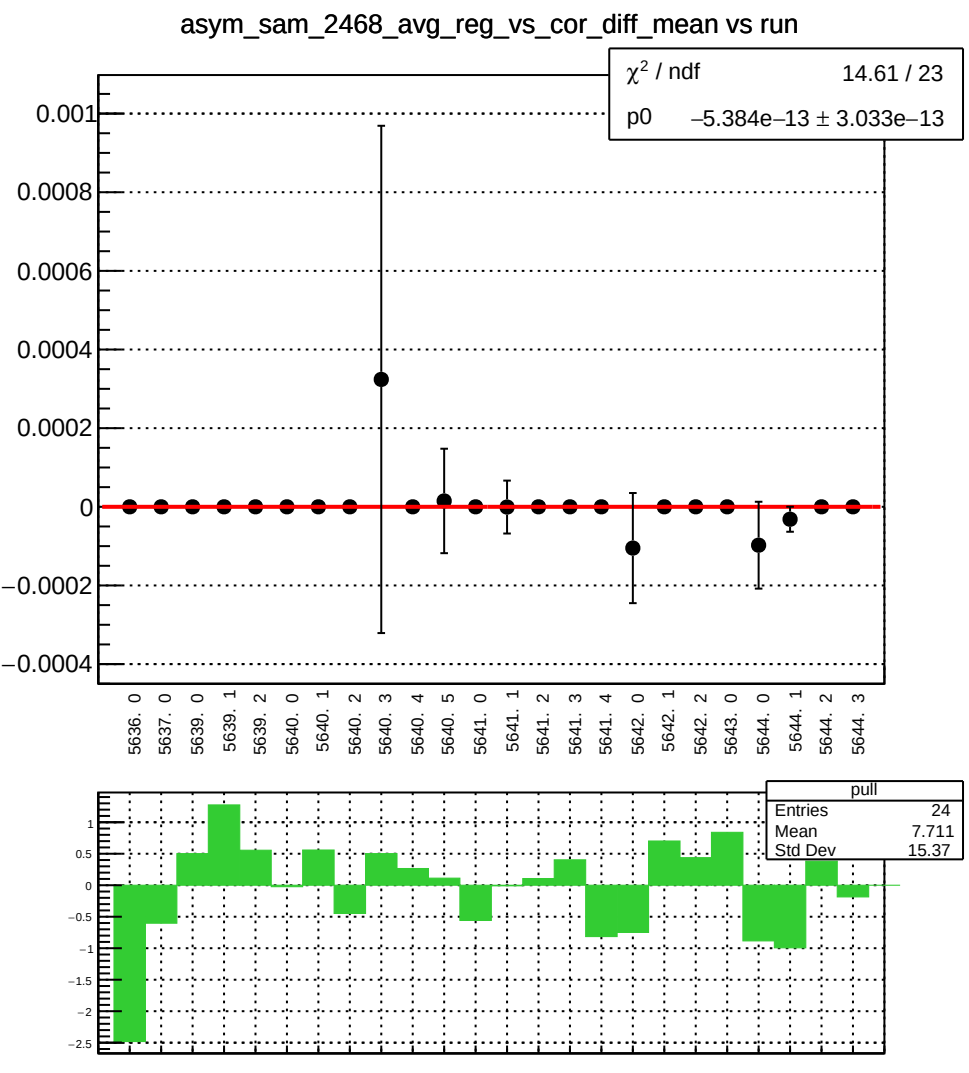

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 25.5 / 23
p0 −1689 ± 3462
60000
40000
20000
0
−20000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 21.87
Std Dev 25.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.02736
Std Dev 1.03
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

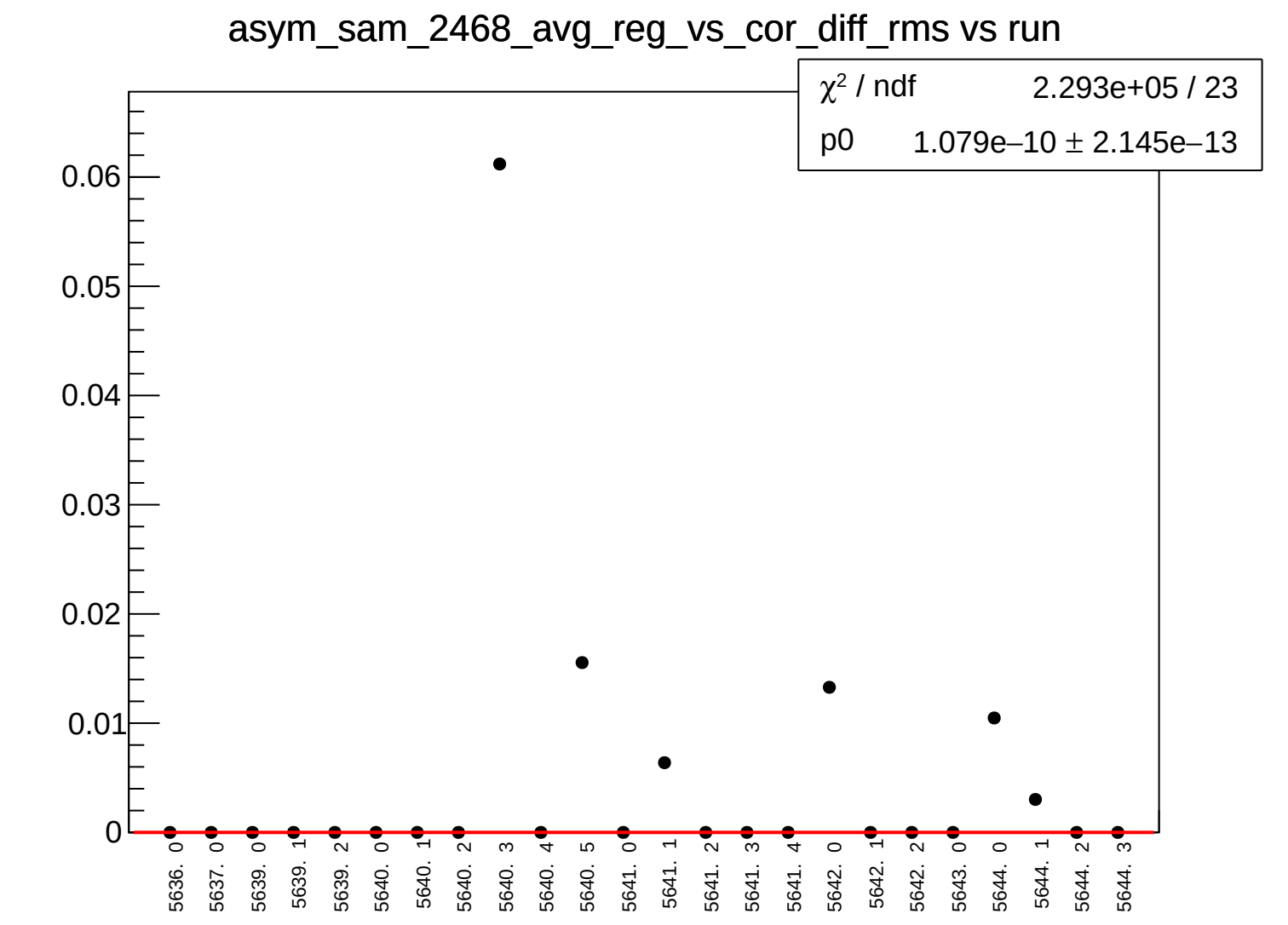

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 781.2 / 23
p0 1698 ± 2.448
1850
1800
1750
1700
1650
1600
1550
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

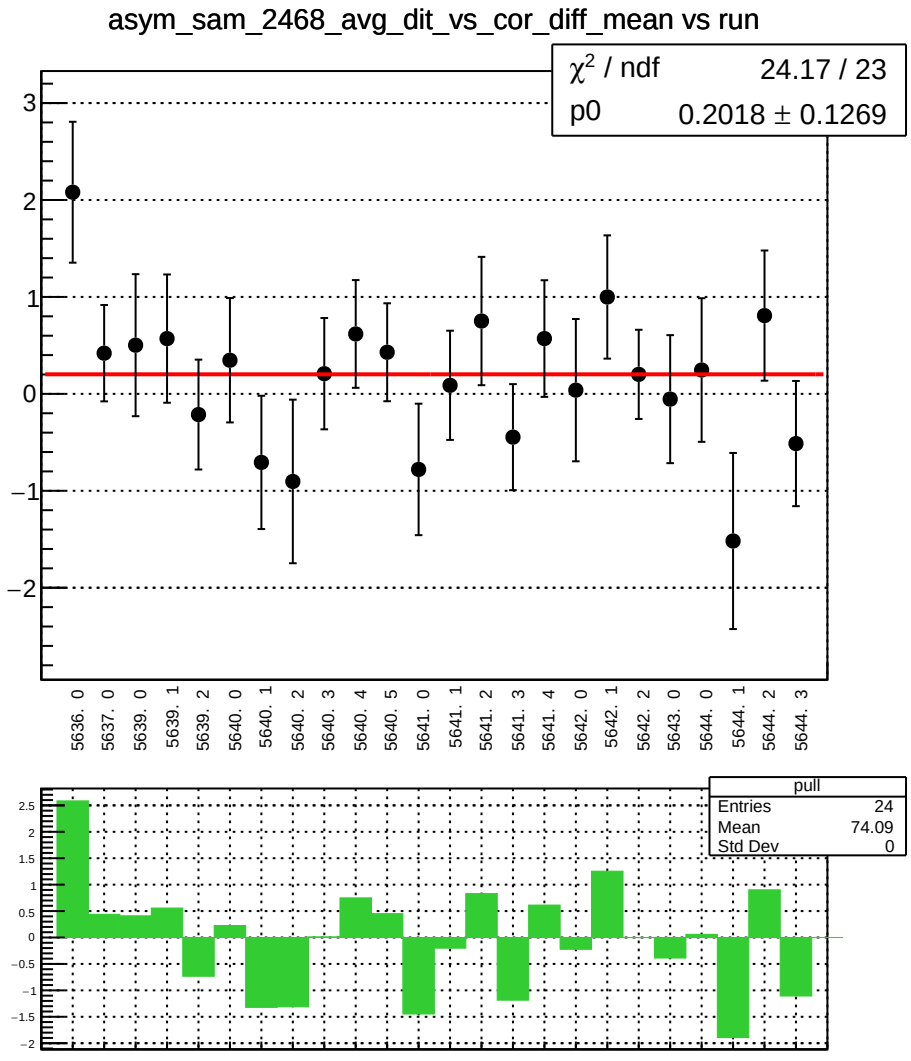

asym_sam_2468_avg_mean vs run
χ² / ndf 24.98 / 23
p0 1816 ± 3457
40000
20000
0
−20000
−40000
−60000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 26.03
Std Dev 23.17
1.5
1
0.5
0
−0.5
−1
−1.5

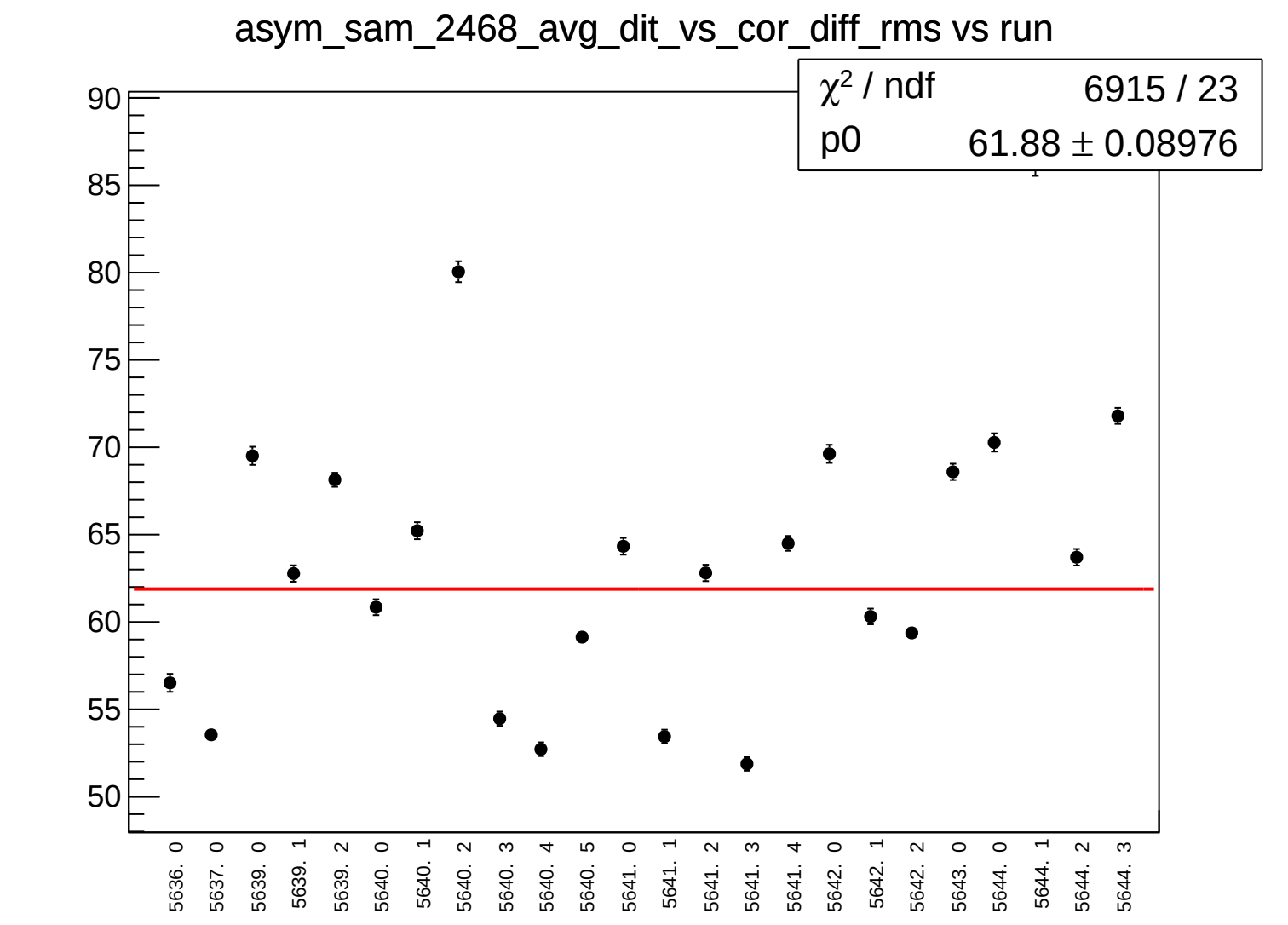

pull1D
Entries 24
Mean −0.02771
Std Dev 1.02
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

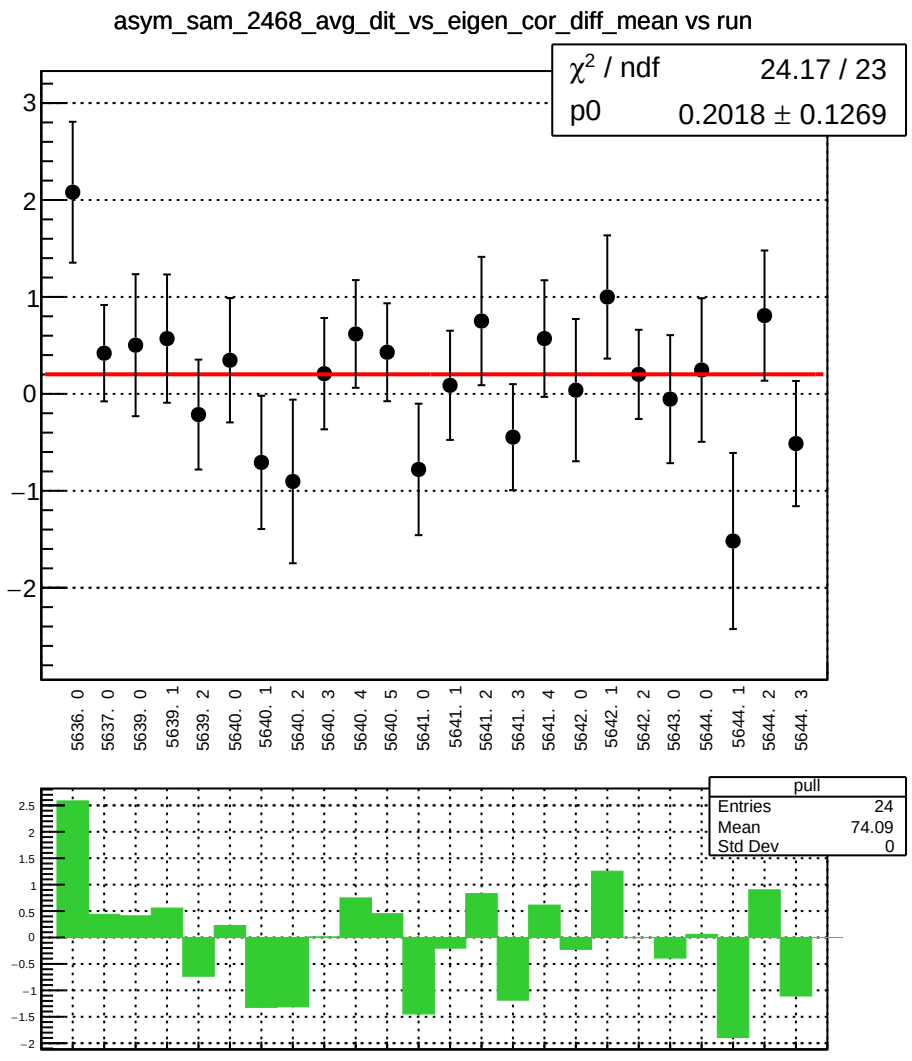

asym_sam_2468_avg_rms vs run
χ² / ndf 1130 / 23
p0 1695 ± 2.444
1850
1800
1750
1700
1650
1600
1550
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

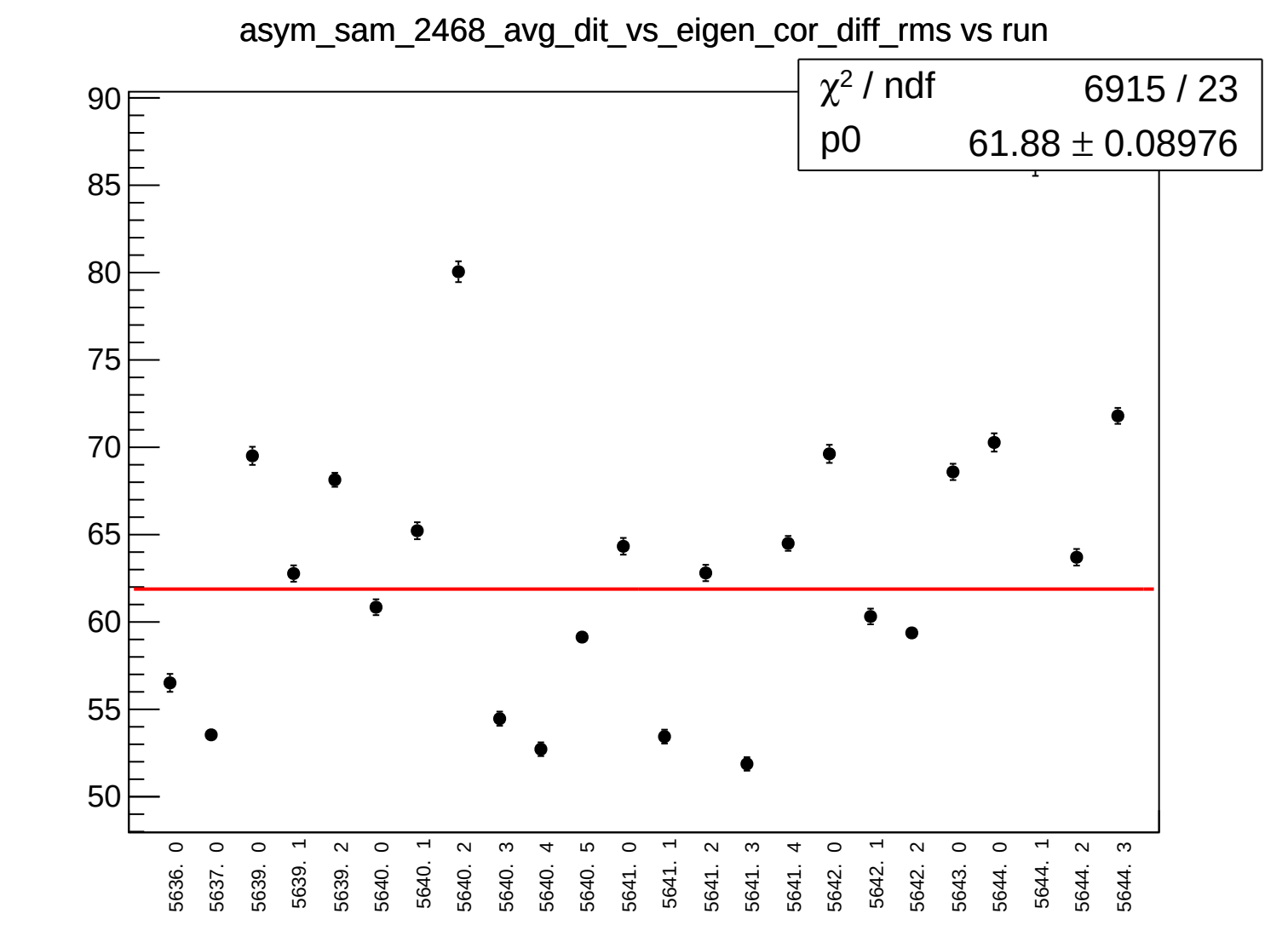

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 14.61 / 23
p0 −5.384e−13 ± 3.033e−13
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 7.711
Std Dev 15.37
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean −0.04622
Std Dev 0.7789
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

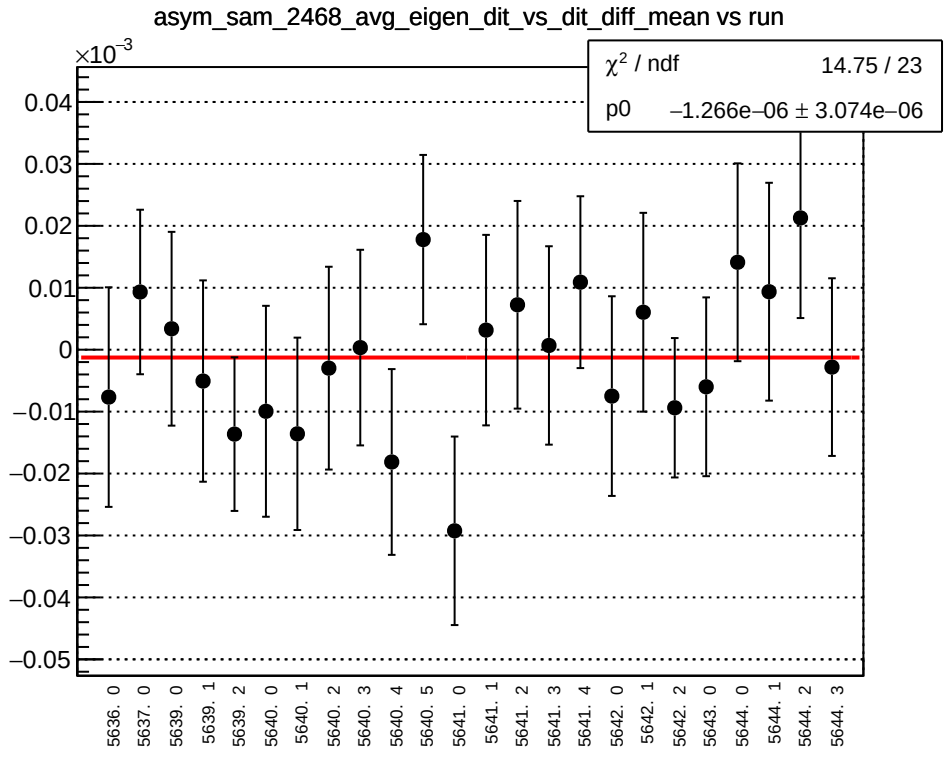

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.293e+05 / 23
p0 1.079e−10 ± 2.145e−13
0.06
0.05
0.04
0.03
0.02
0.01
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

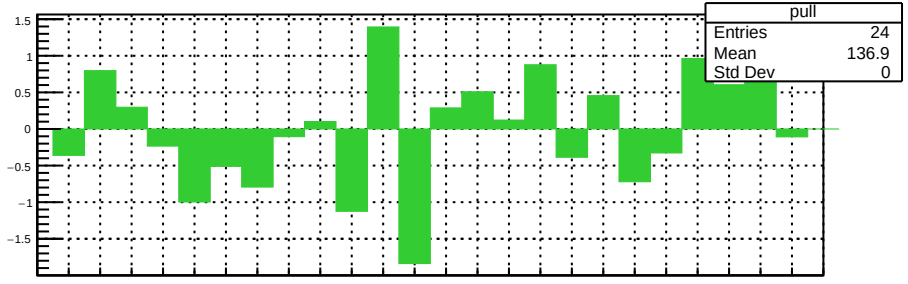

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 24.17 / 23
p0 0.2018 ± 0.1269
3
2
1
0
−1
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 74.09
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.03023
Std Dev 1.003
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

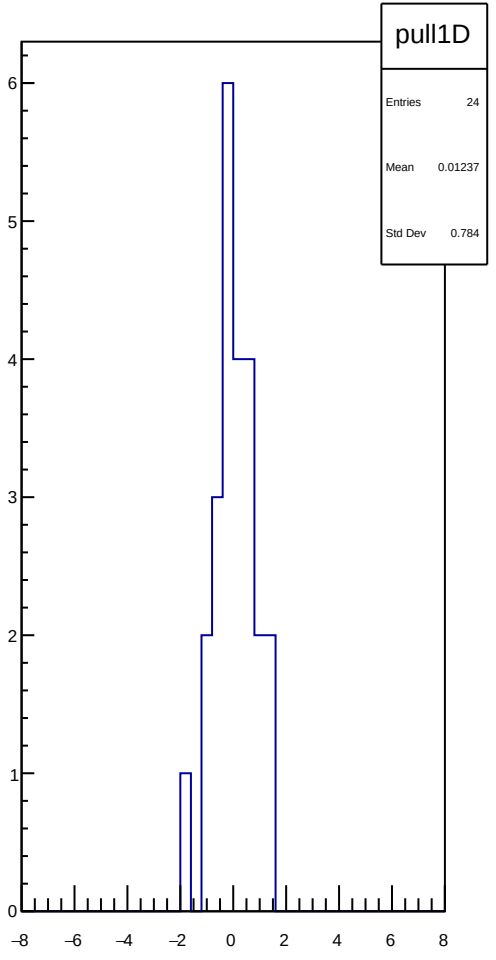

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6915 / 23
p0 61.88 ± 0.08976
90
85
80
75
70
65
60
55
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

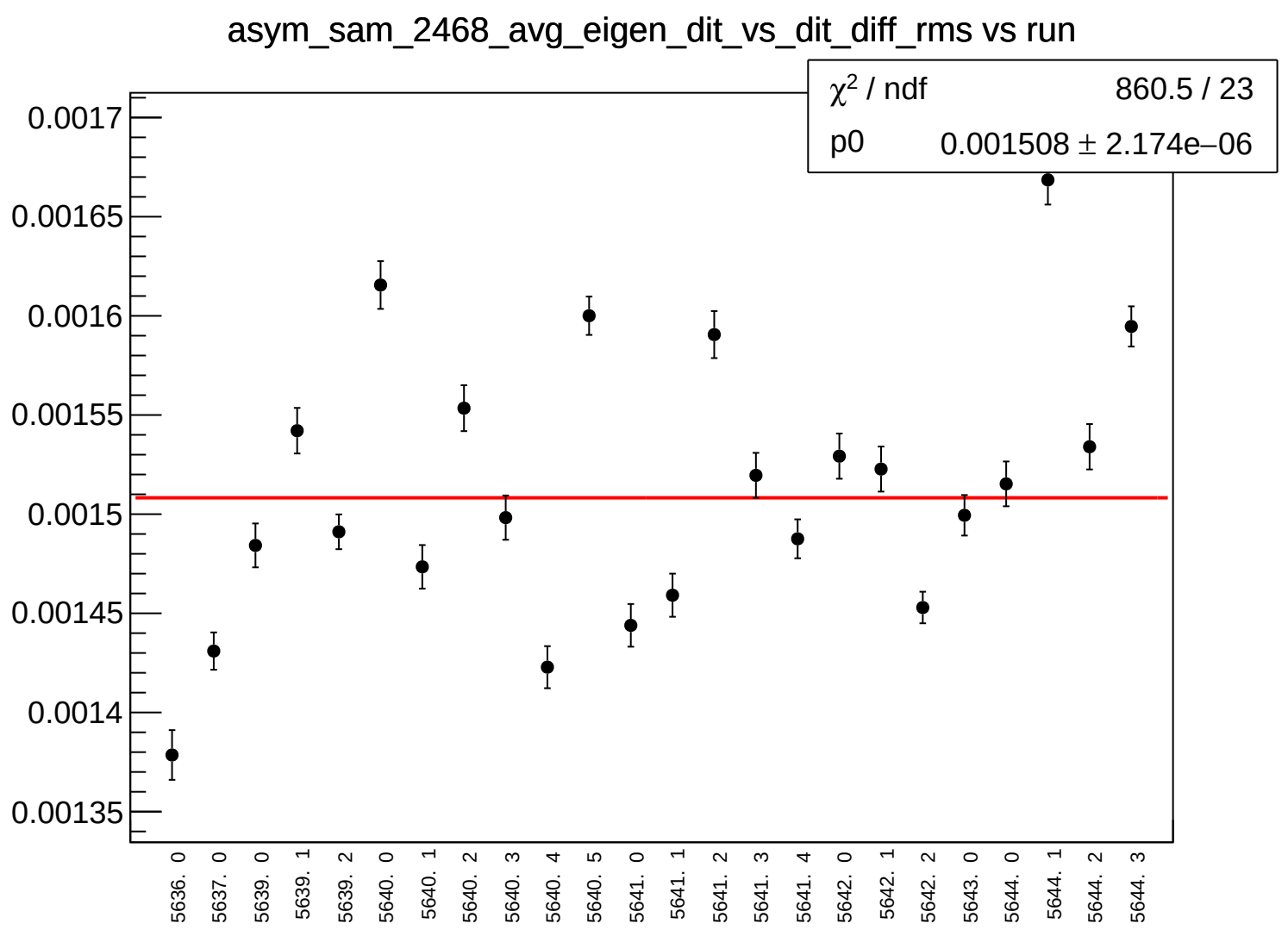

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.17 / 23
p0 0.2018 ± 0.1269
3
2
1
0
−1
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 74.09
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.03023
Std Dev 1.003
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

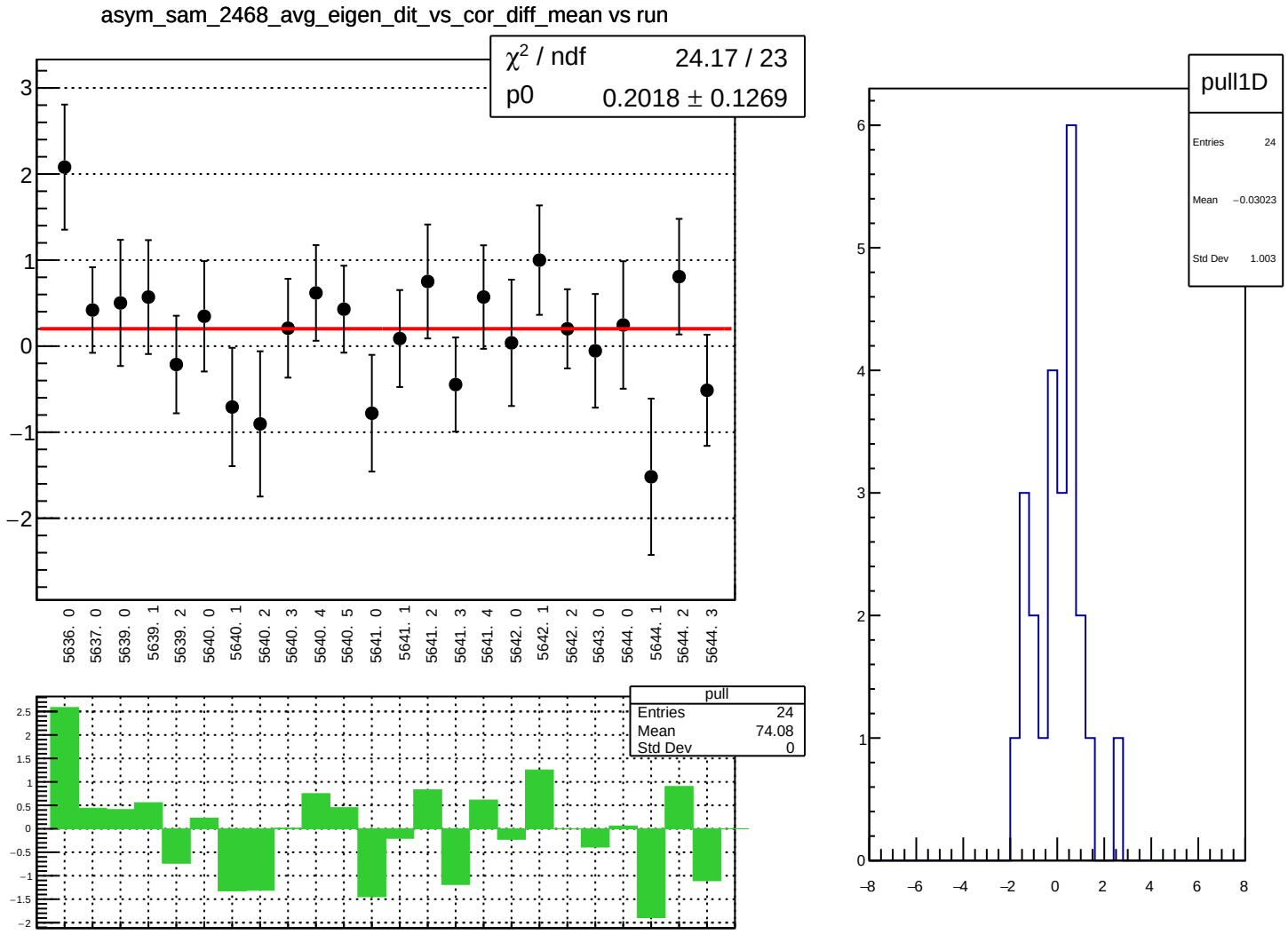

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6915 / 23
p0 61.88 ± 0.08976
90
85
80
75
70
65
60
55
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

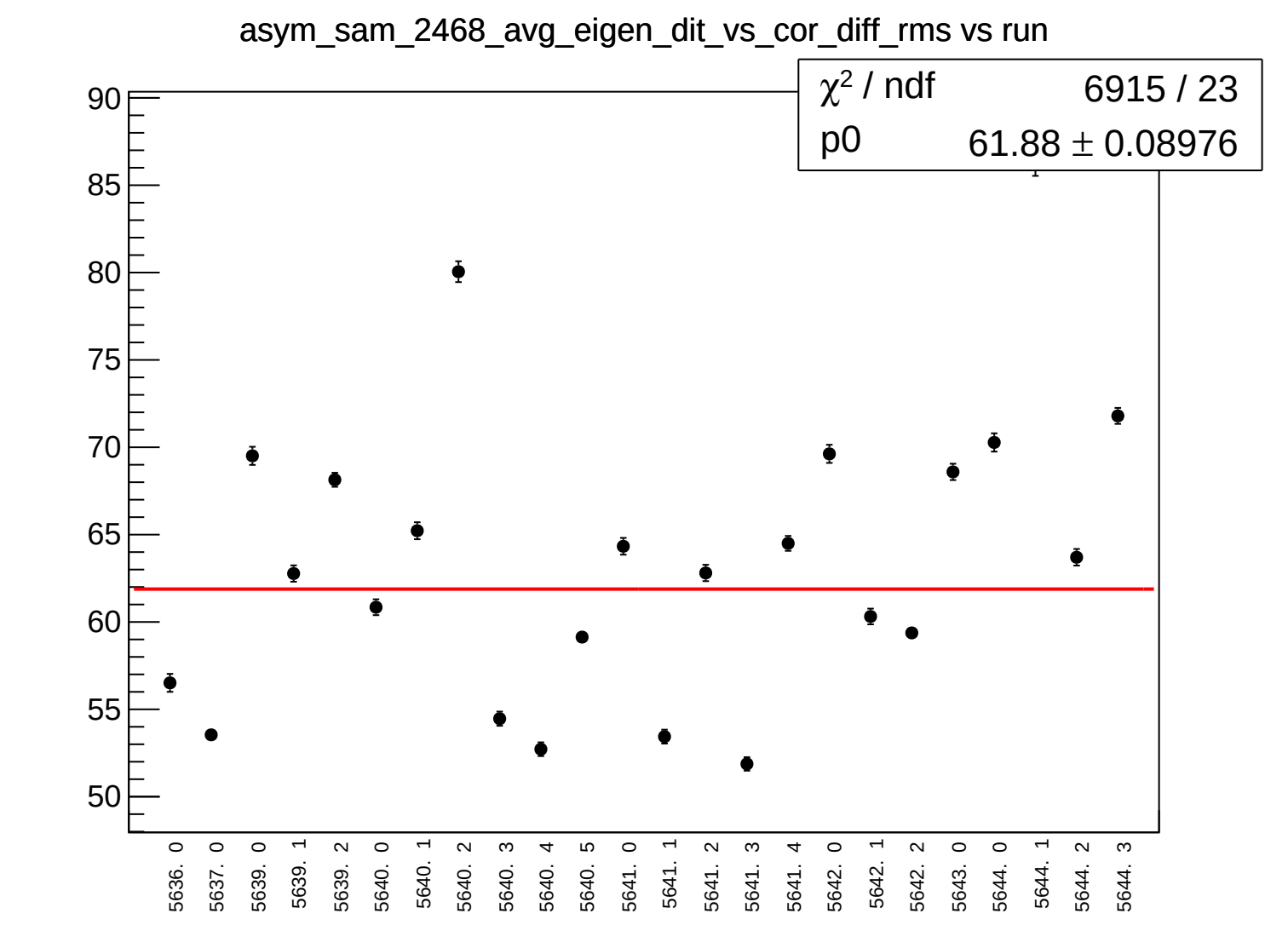

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 14.75 / 23
p0 −1.266e−06 ± 3.074e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
−0.05
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

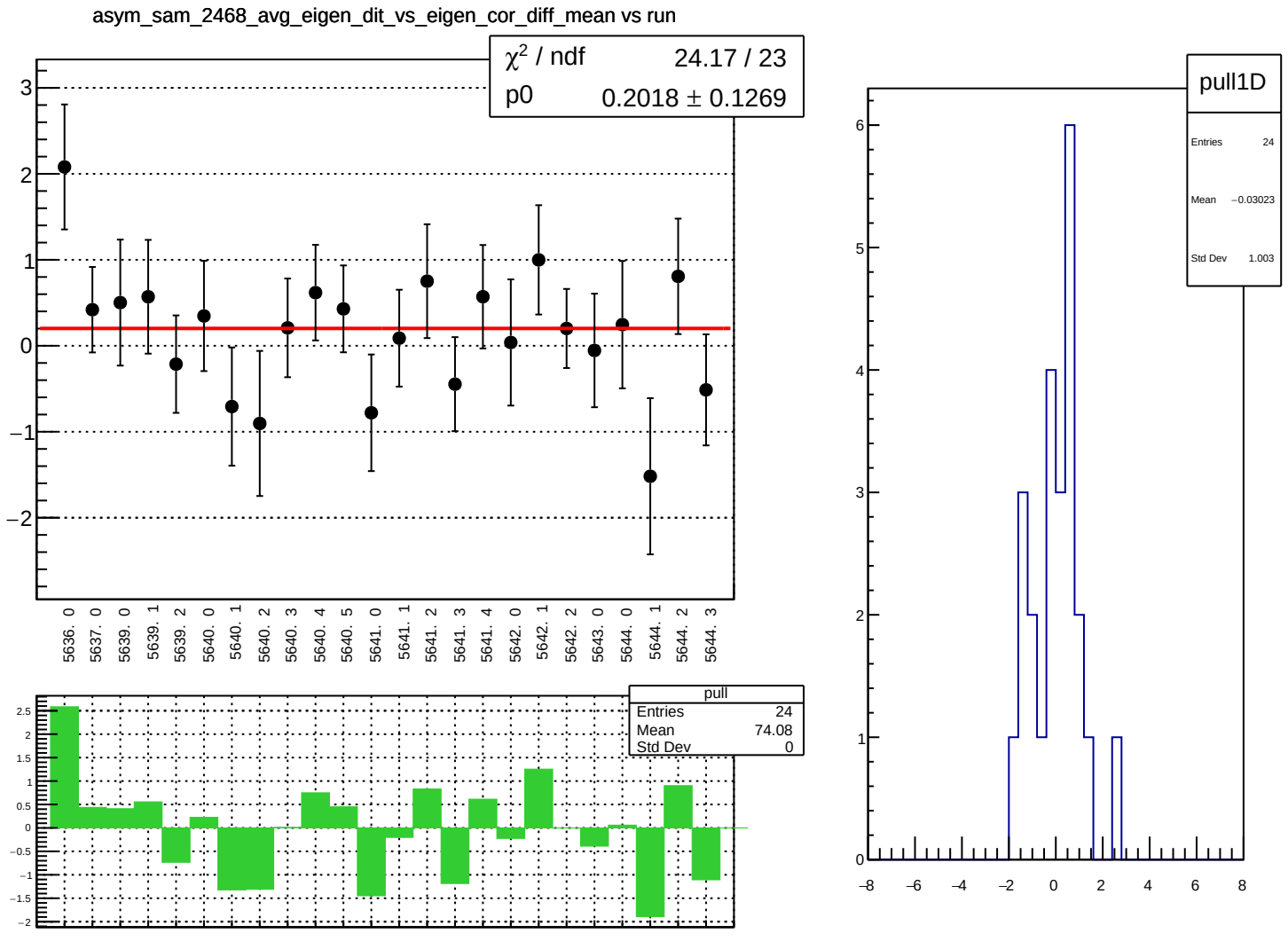

pull
Entries 24
Mean 136.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

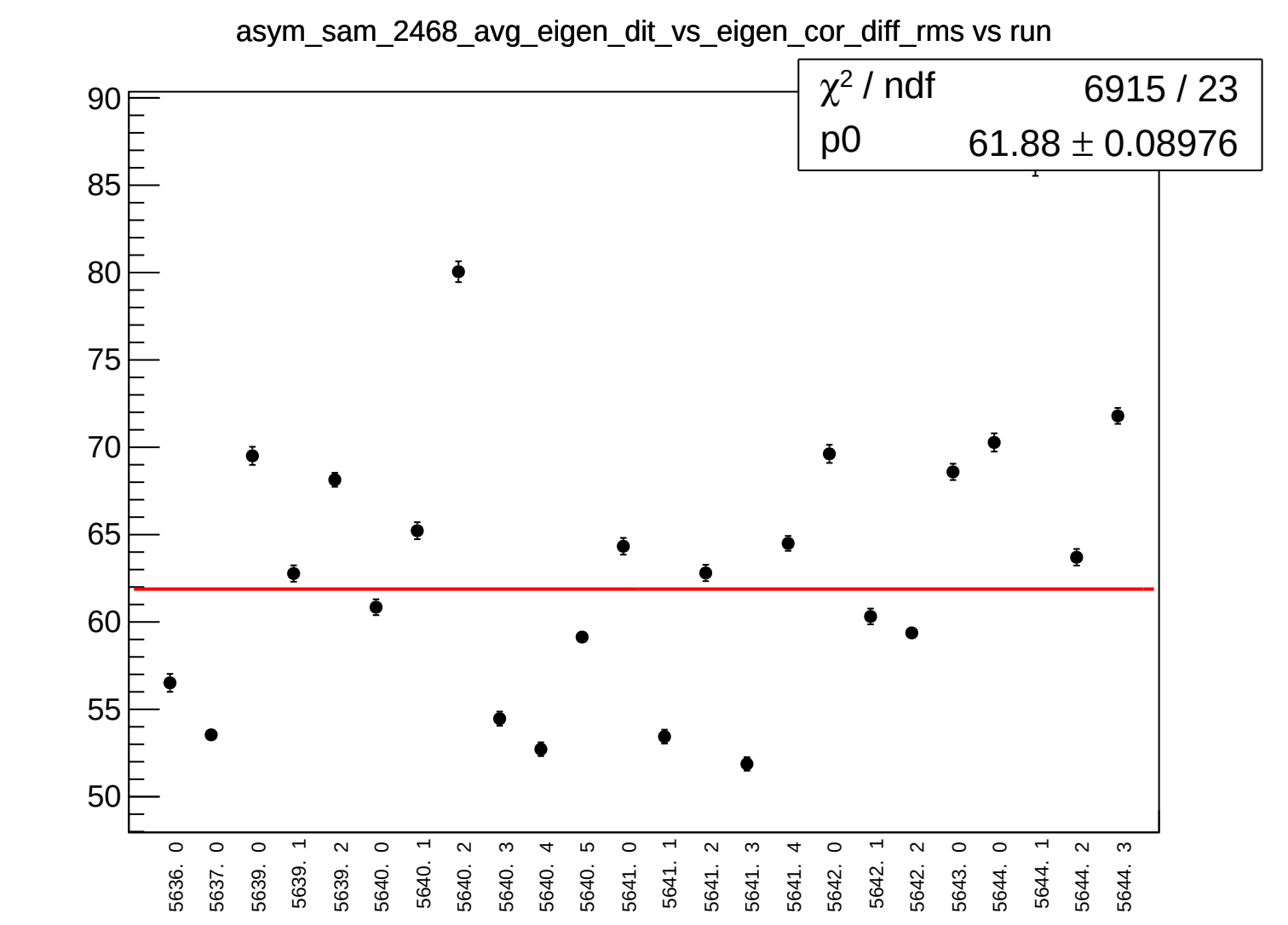

pull1D
Entries 24
Mean 0.01237
Std Dev 0.784
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

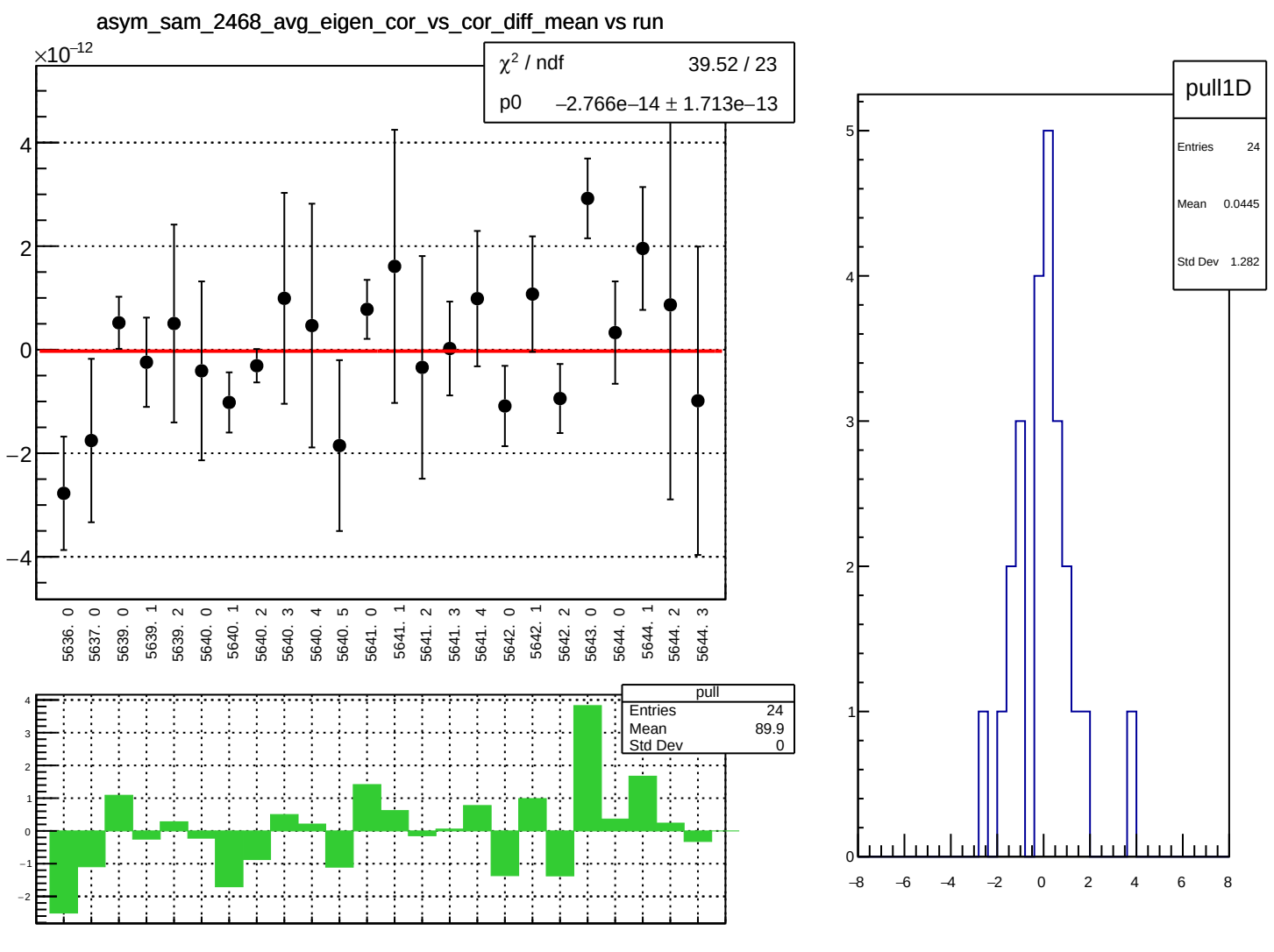

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 860.5 / 23
p0 0.001508 ± 2.174e−06
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

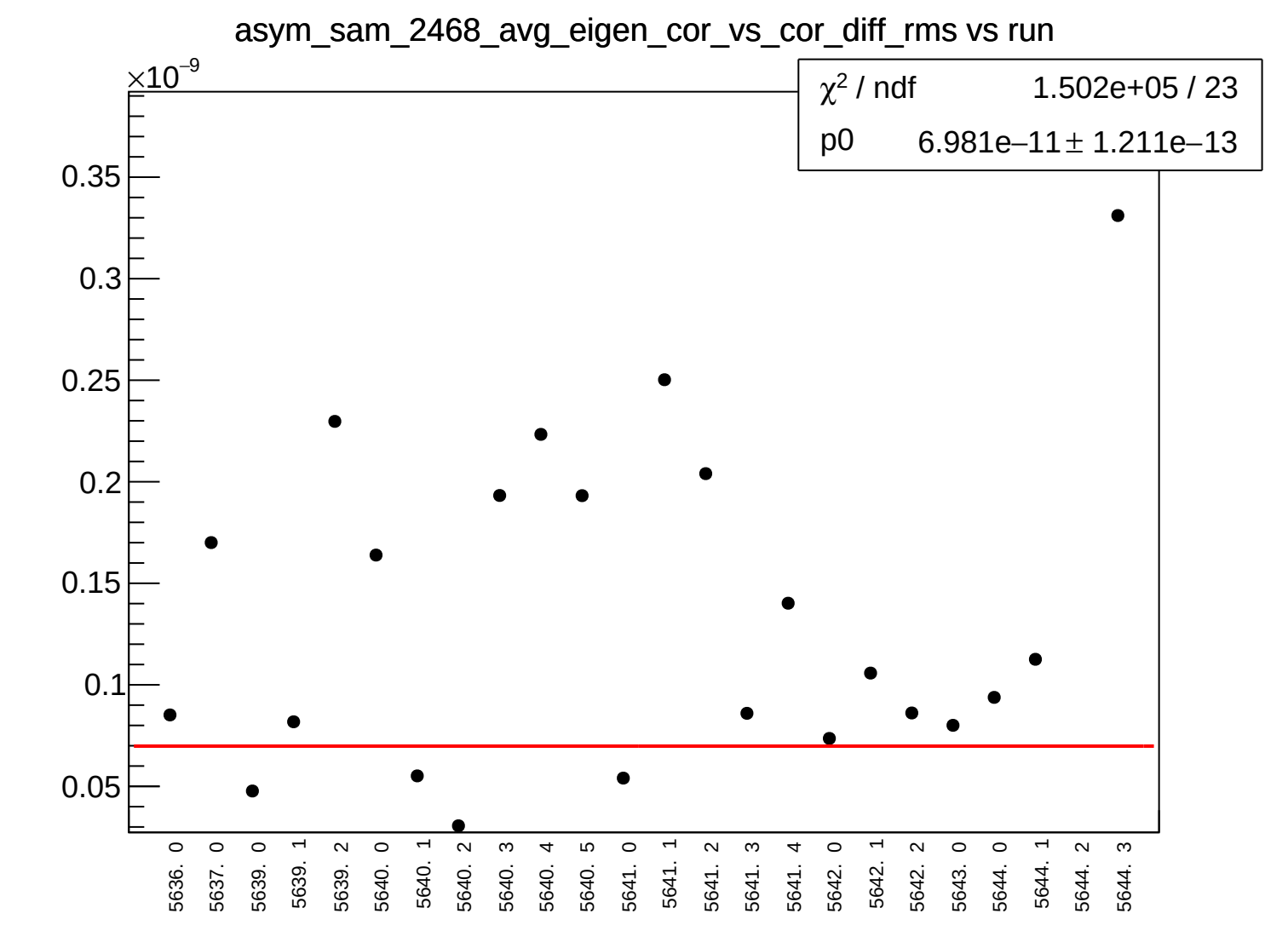

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 24.17 / 23
p0 0.2018 ± 0.1269
3
2
1
0
−1
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 74.08
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.03023
Std Dev 1.003
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

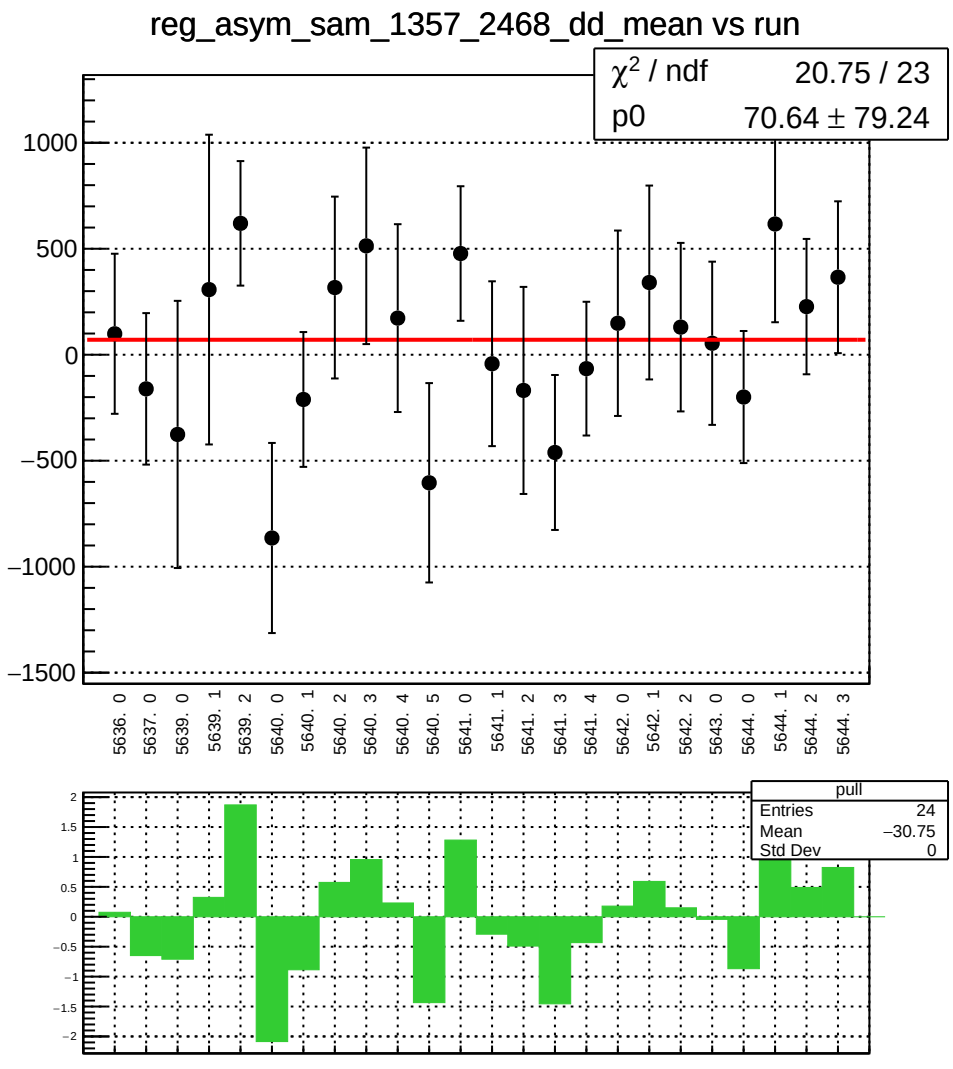

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6915 / 23
p0 61.88 ± 0.08976
90
85
80
75
70
65
60
55
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

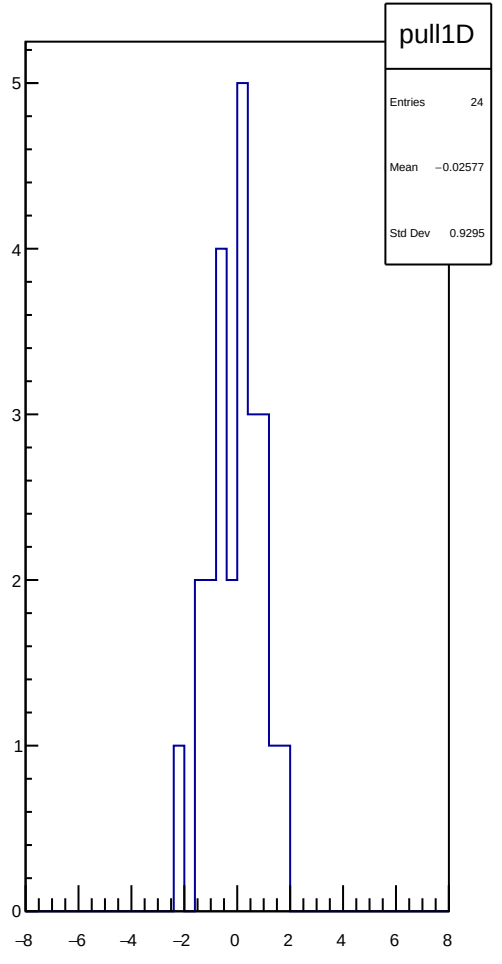

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.17 / 23
p0 0.2018 ± 0.1269
3
2
1
0
−1
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 74.08
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.03023
Std Dev 1.003
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

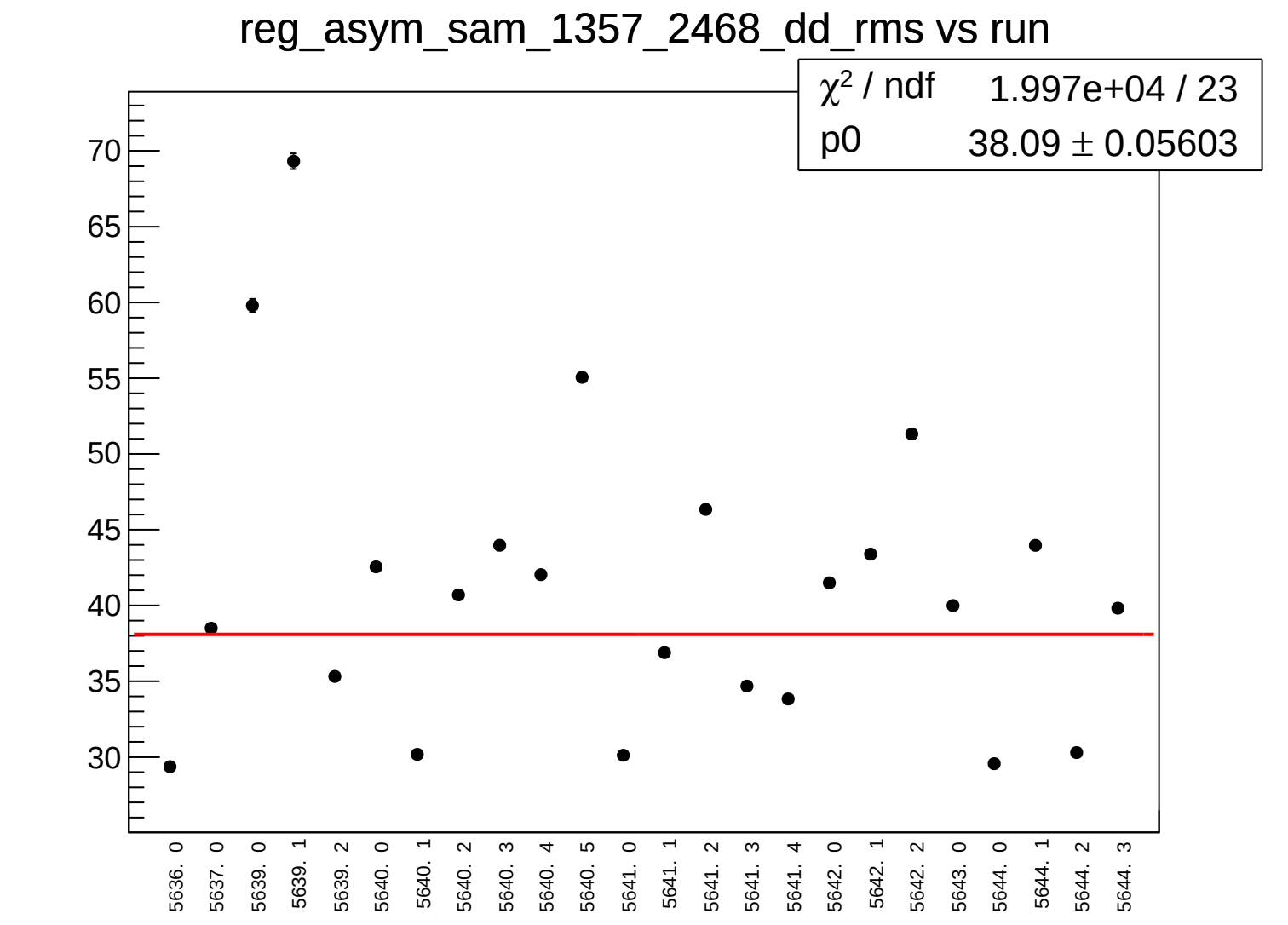

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6915 / 23
p0 61.88 ± 0.08976
90
85
80
75
70
65
60
55
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

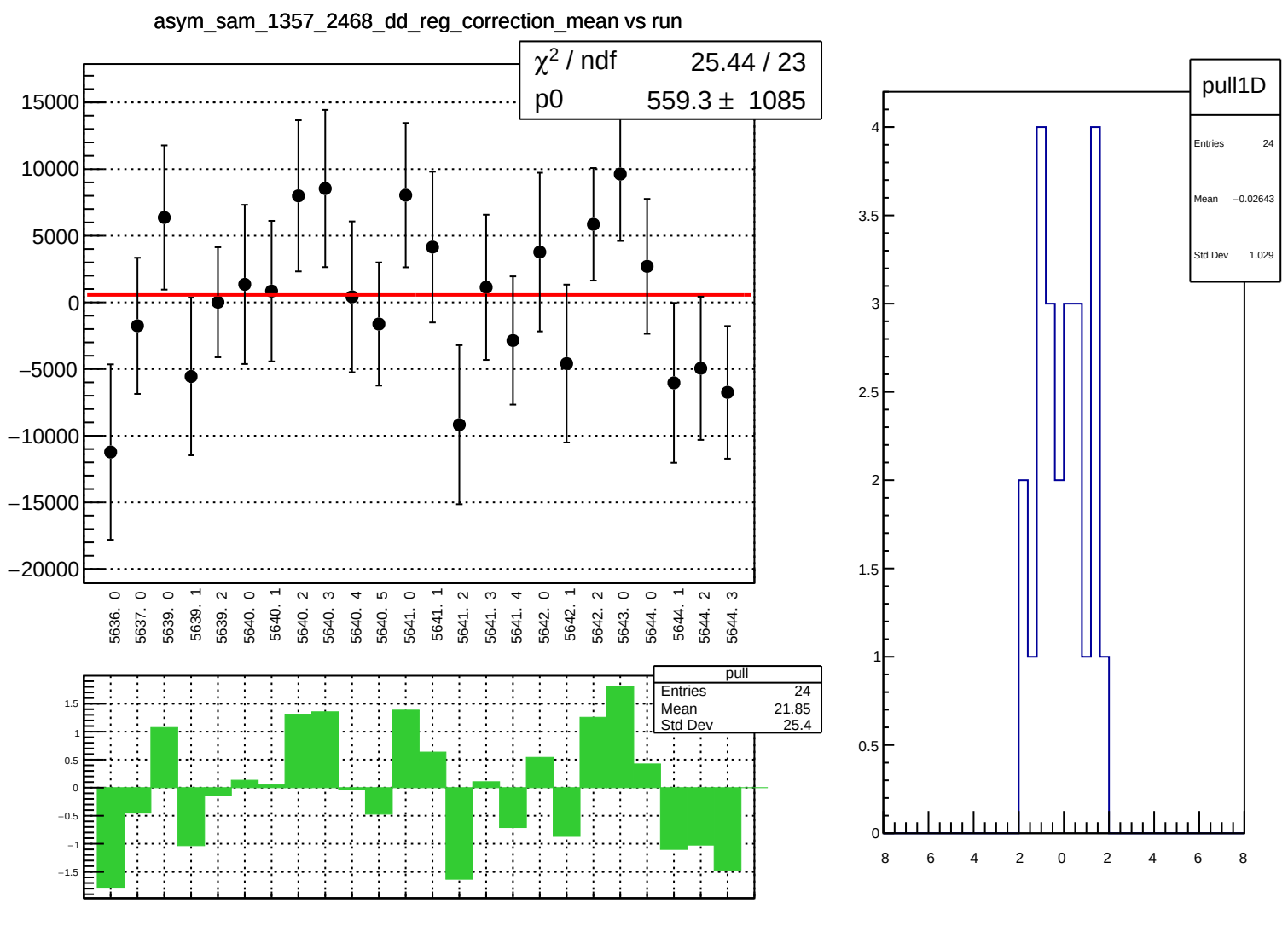

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 39.52 / 23
p0 −2.766e−14 ± 1.713e−13
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 89.9
Std Dev 0
pull1D
Entries 24
Mean 0.0445
Std Dev 1.282

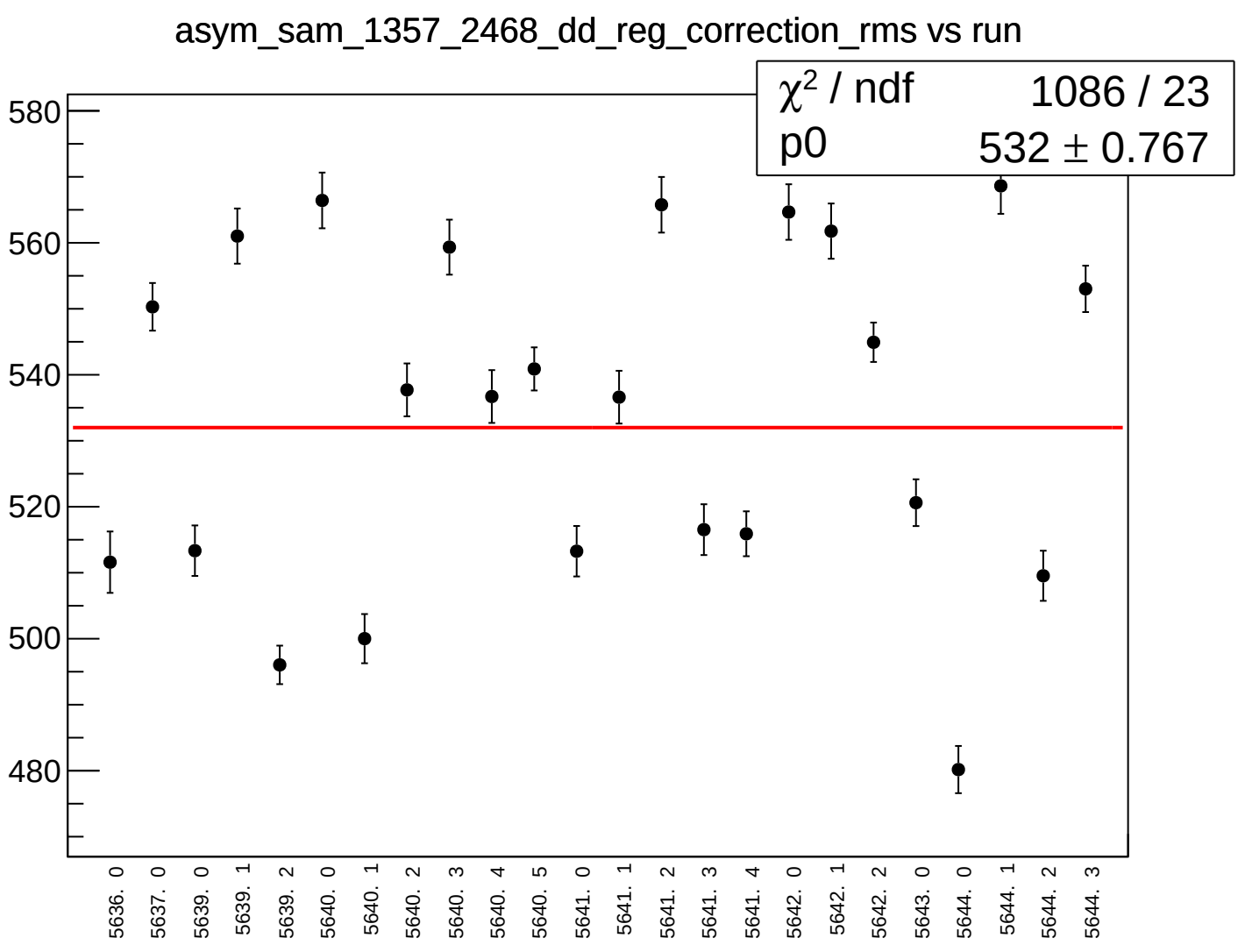

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.502e+05 / 23
p0 6.981e−11 ± 1.211e−13
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

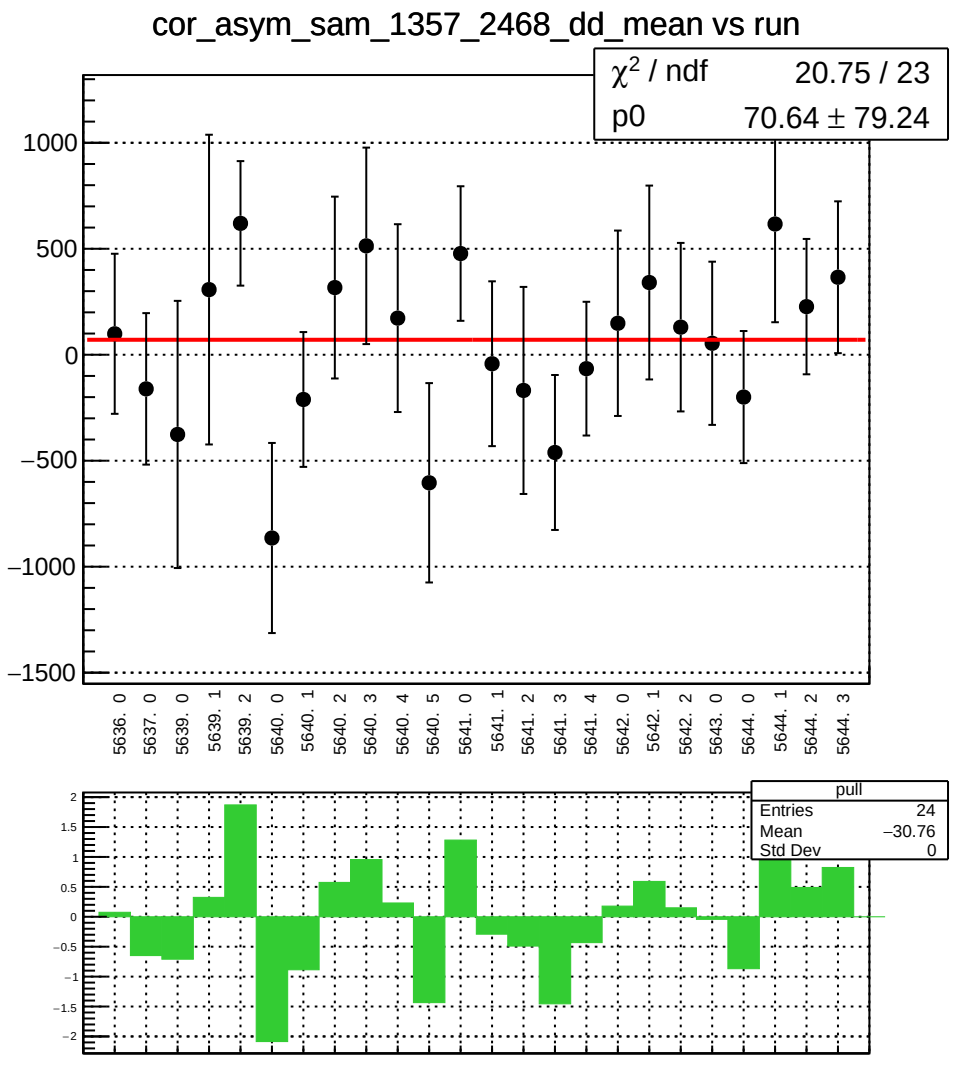

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 20.75 / 23
p0 70.64 ± 79.24
1000
500
0
−500
−1000
−1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −30.75
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

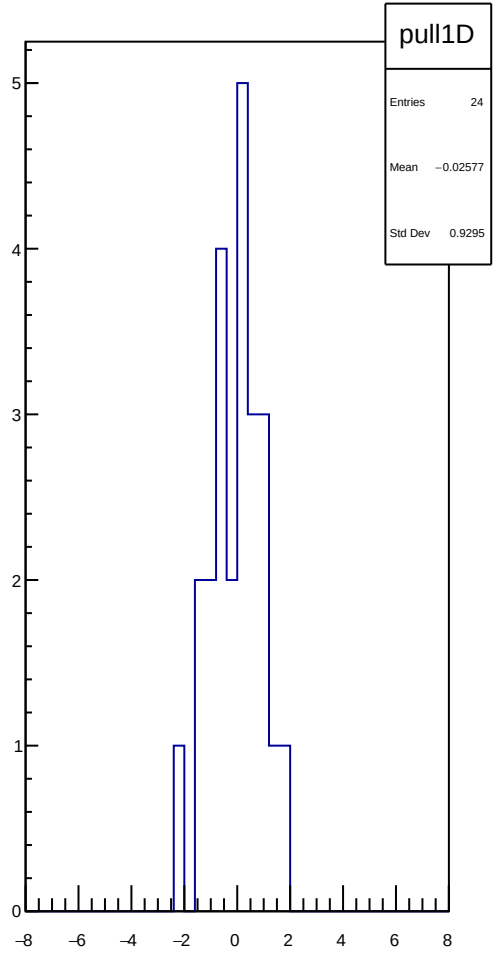

pull1D
Entries 24
Mean −0.02577
Std Dev 0.9295
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

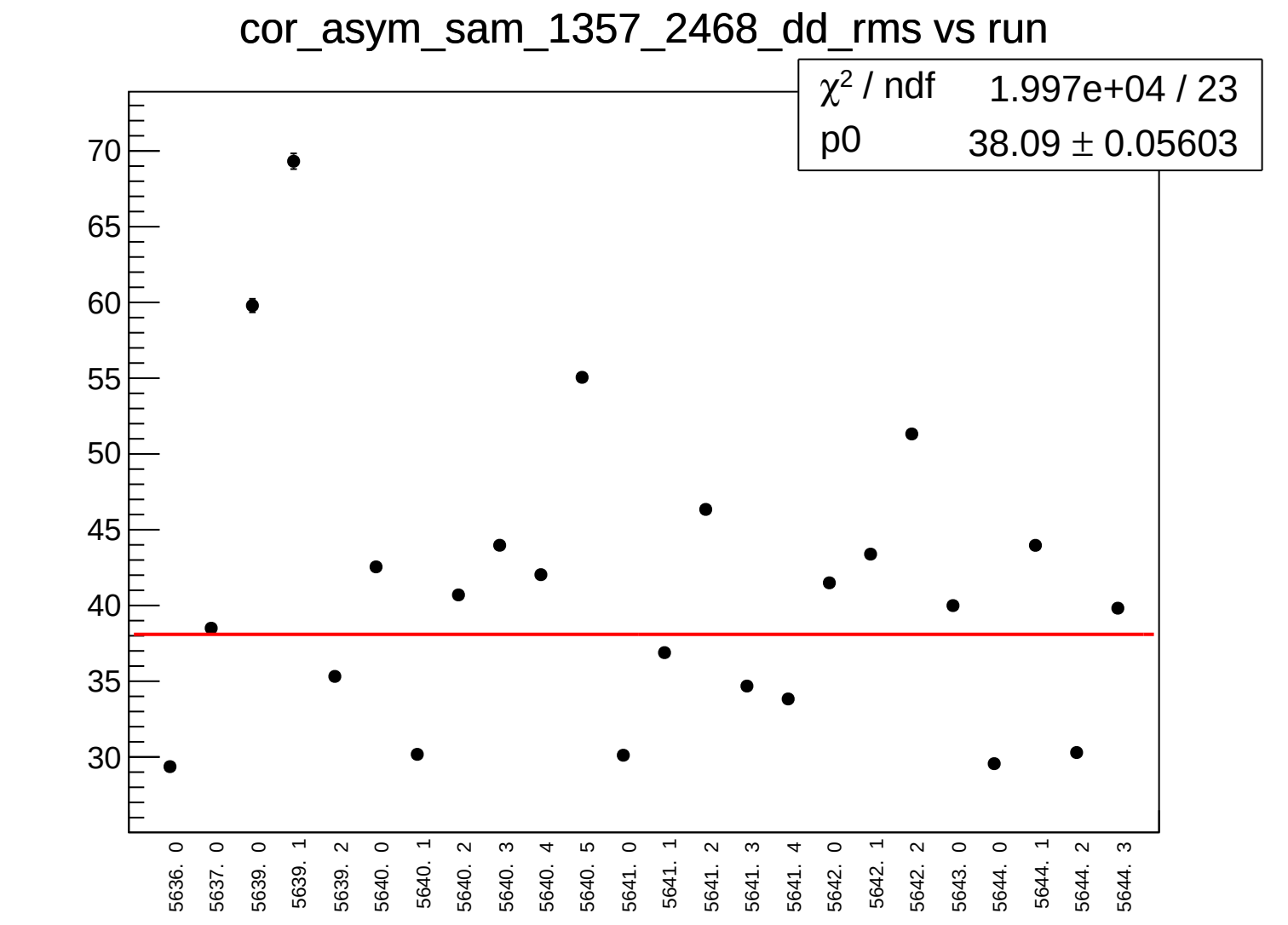

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.997e+04 / 23
p0 38.09 ± 0.05603
70
65
60
55
50
45
40
35
30
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 25.44 / 23
p0 559.3 ± 1085
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 21.85
Std Dev 25.4
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.02643
Std Dev 1.029
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 1086 / 23
p0 532 ± 0.767
580
560
540
520
500
480
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 20.75 / 23
p0 70.64 ± 79.24
1000
500
0
−500
−1000
−1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −30.76
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.02577
Std Dev 0.9295
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.997e+04 / 23
p0 38.09 ± 0.05603
70
65
60
55
50
45
40
35
30
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5642. 0
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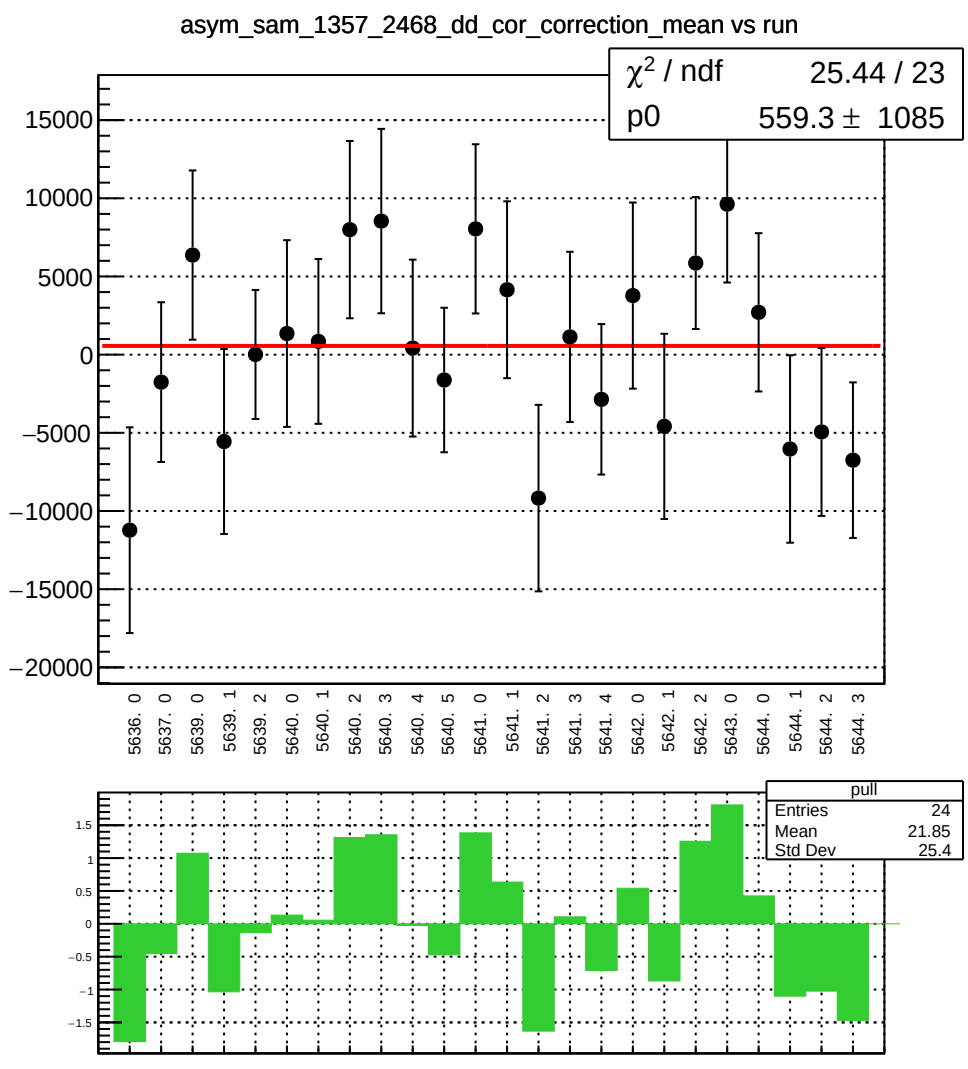
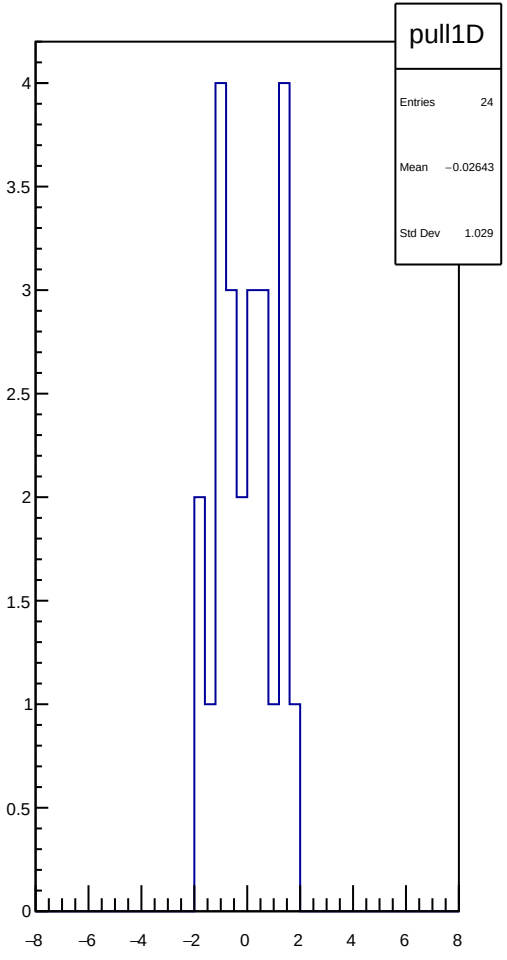
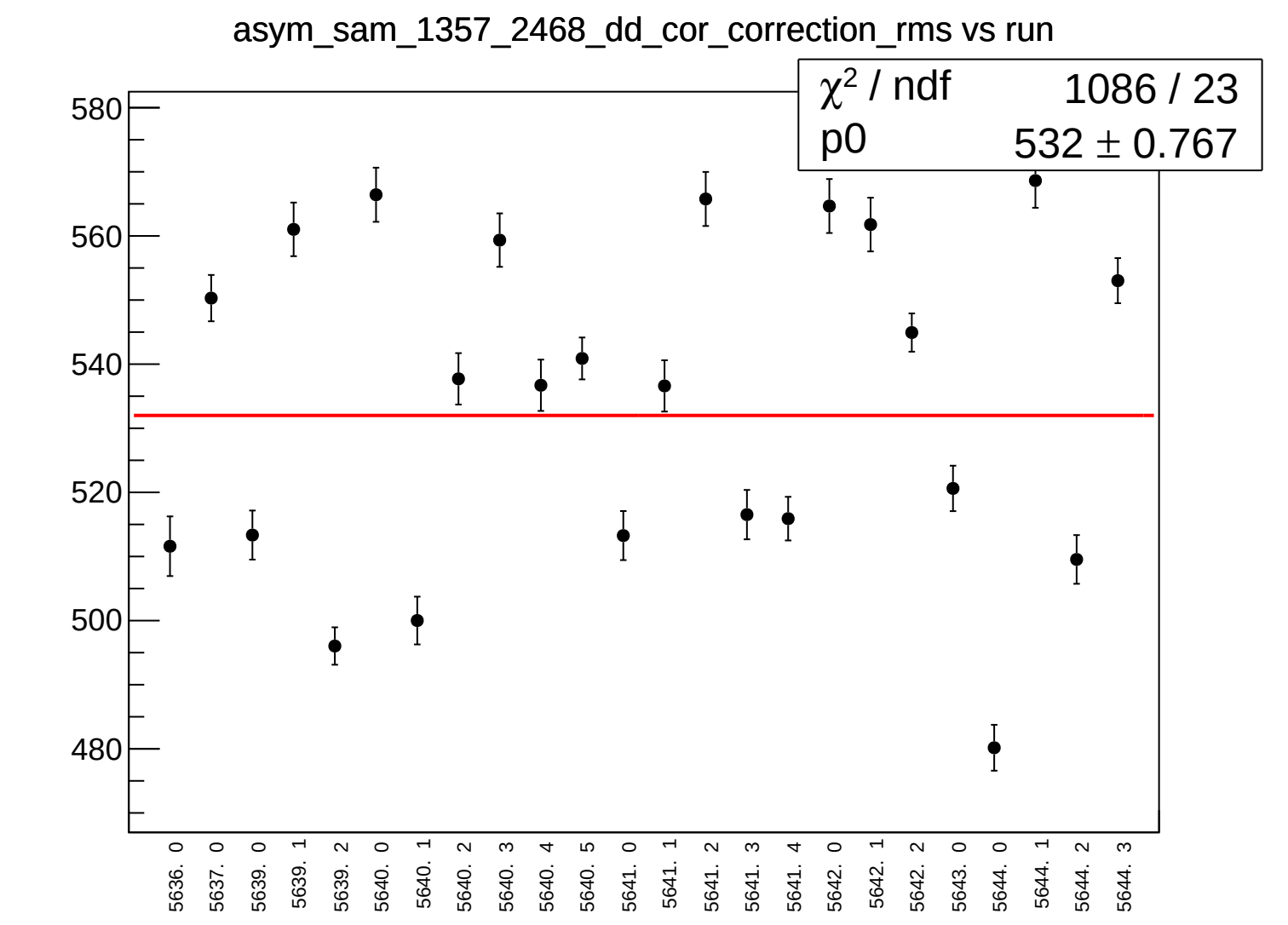
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 25.44 / 23
p0 559.3 ± 1085
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 21.85
Std Dev 25.4
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean −0.02643
Std Dev 1.029
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 1086 / 23
p0 532 ± 0.767
580
560
540
520
500
480
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
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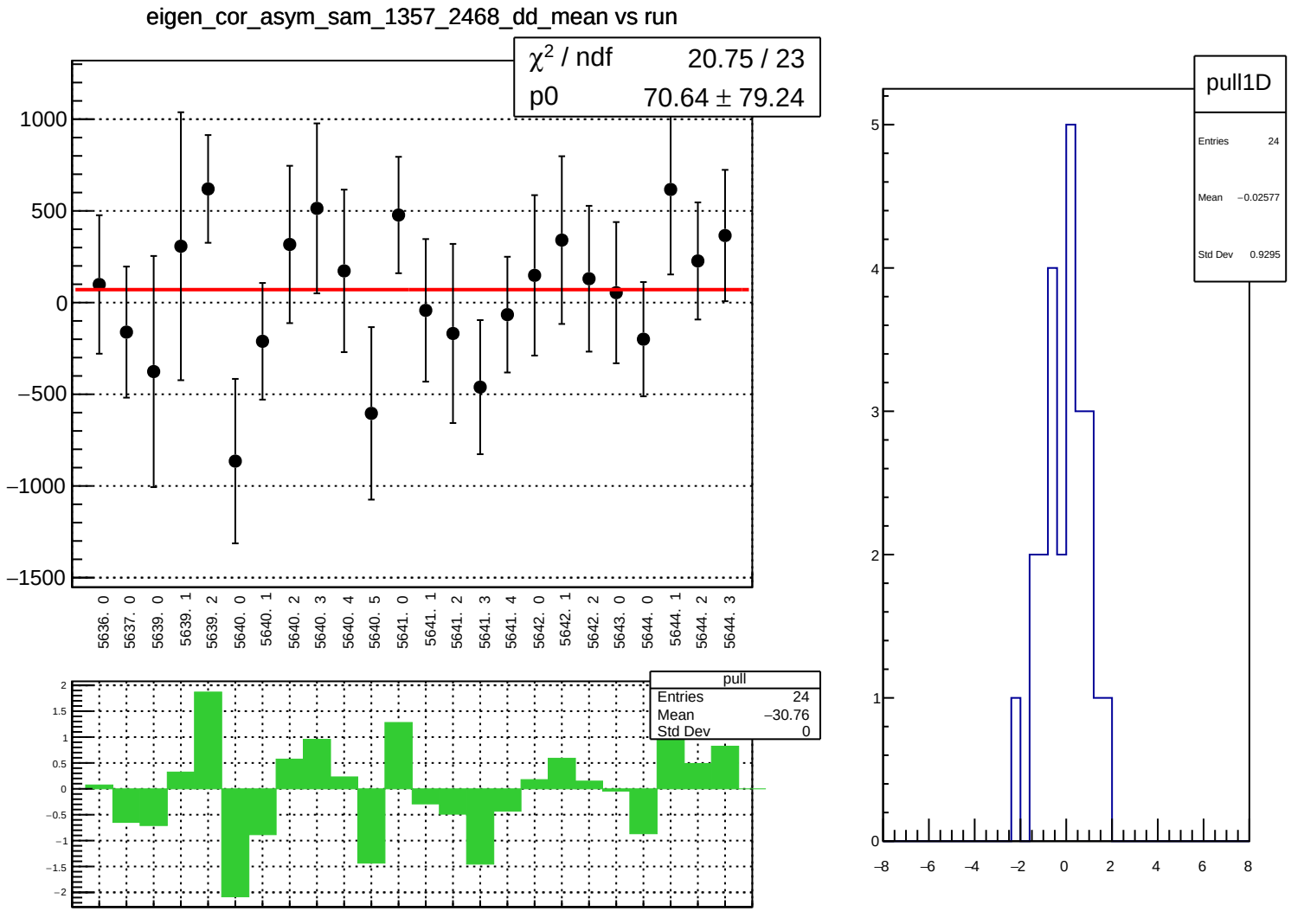
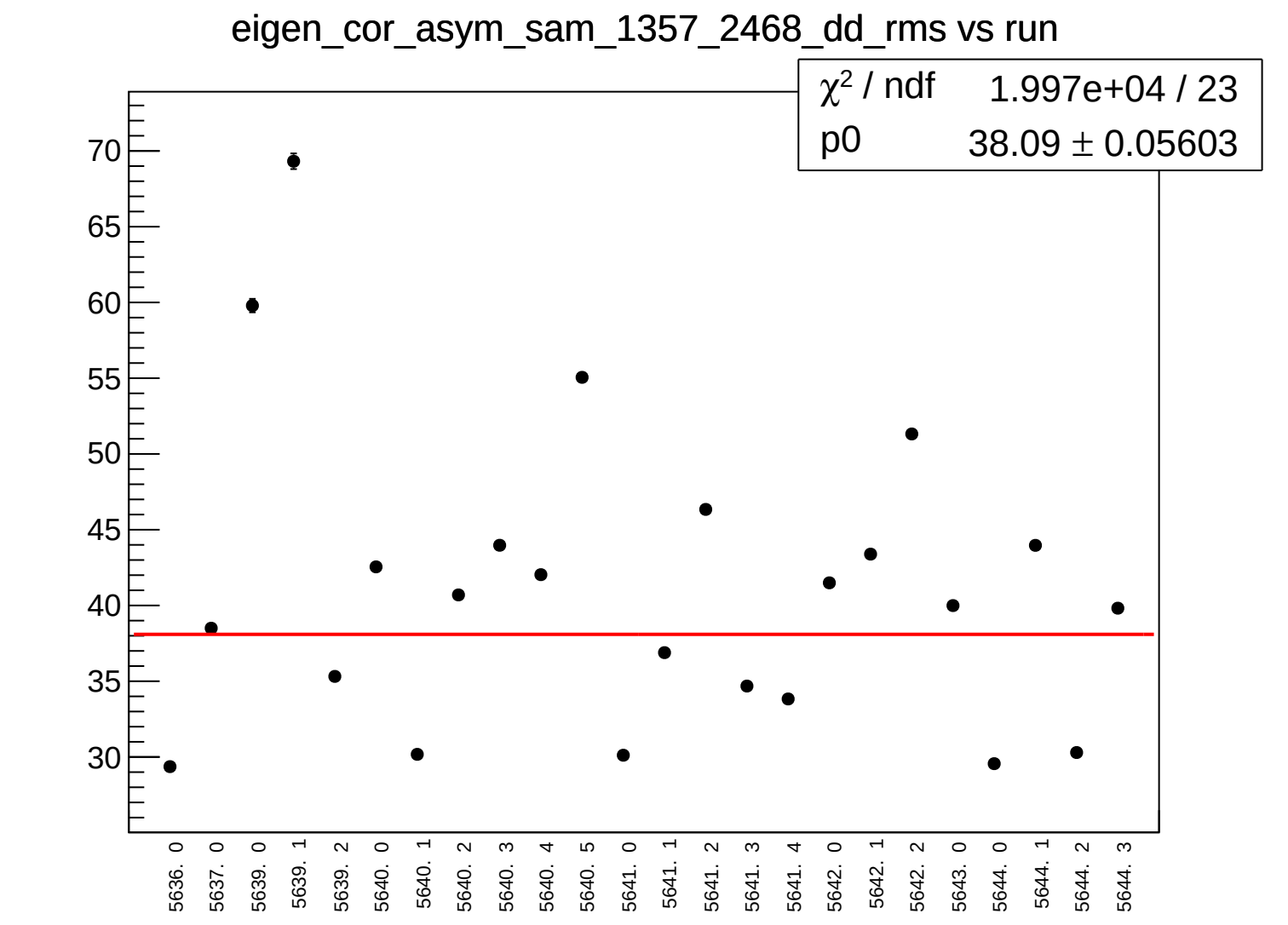
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 20.75 / 23
p0 70.64 ± 79.24
1000
500
0
−500
−1000
−1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −30.76
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.02577
Std Dev 0.9295
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.997e+04 / 23
p0 38.09 ± 0.05603
70
65
60
55
50
45
40
35
30
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
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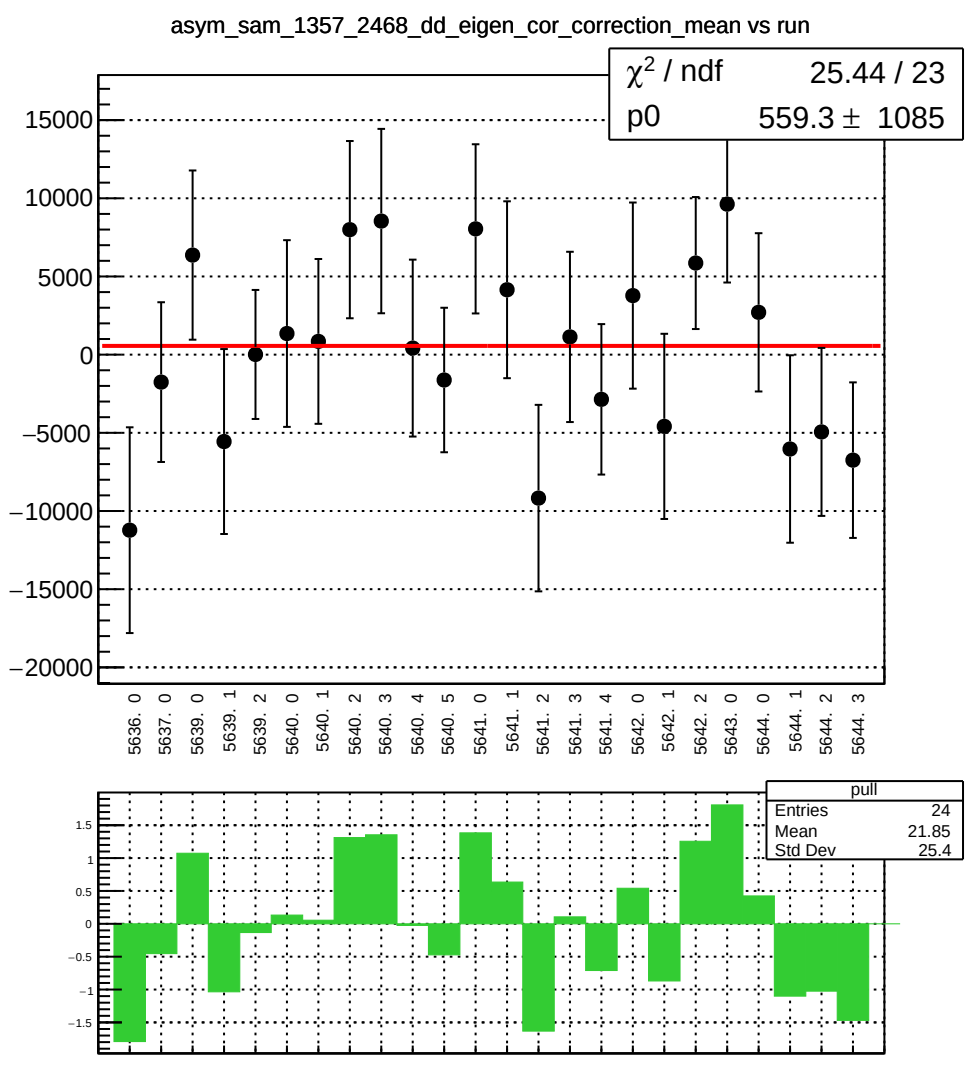
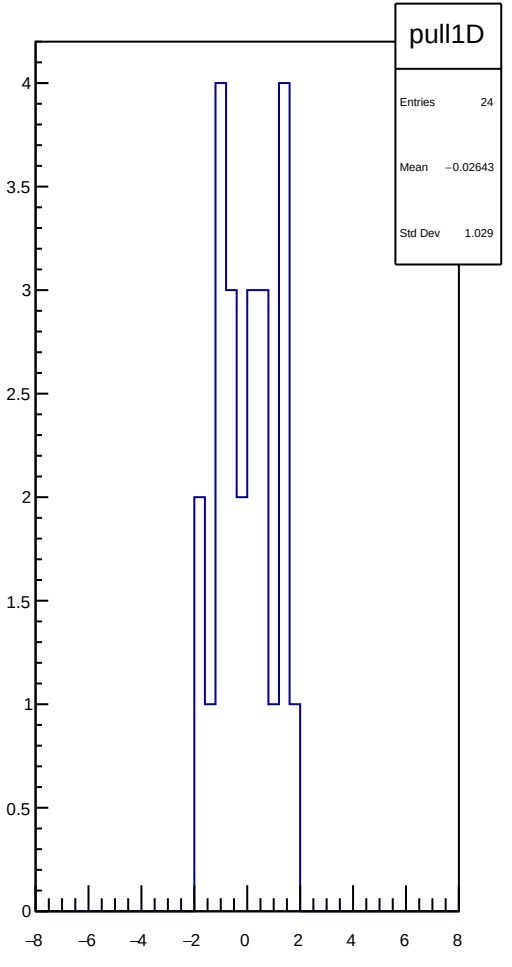
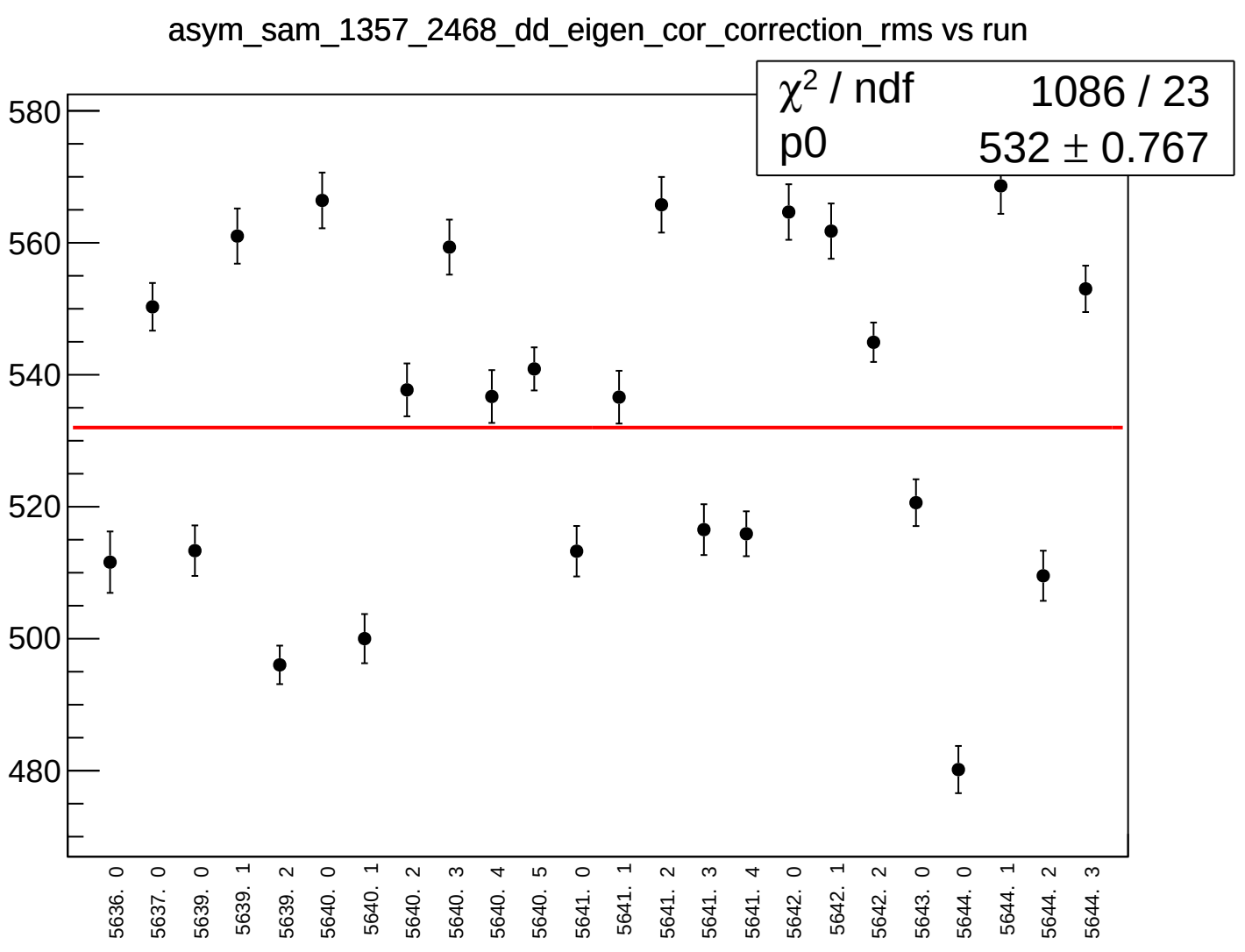
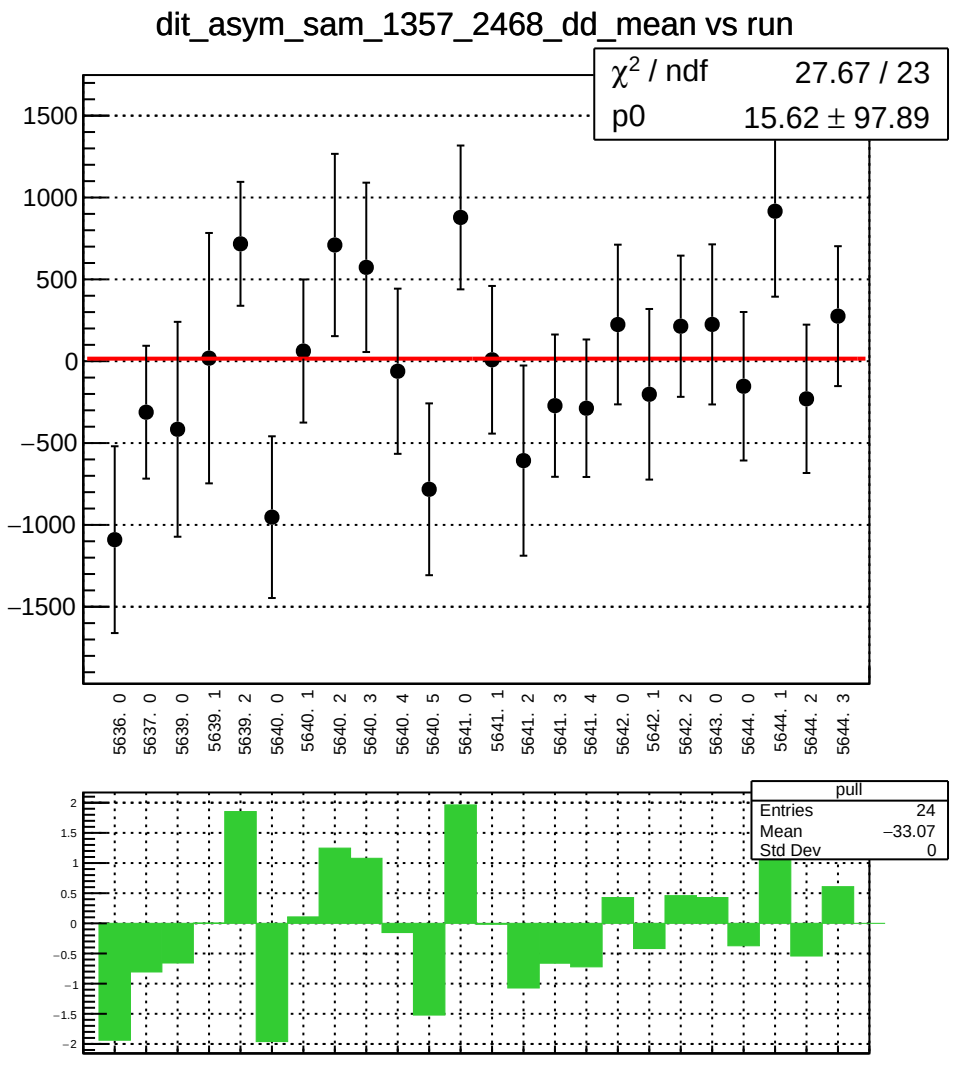
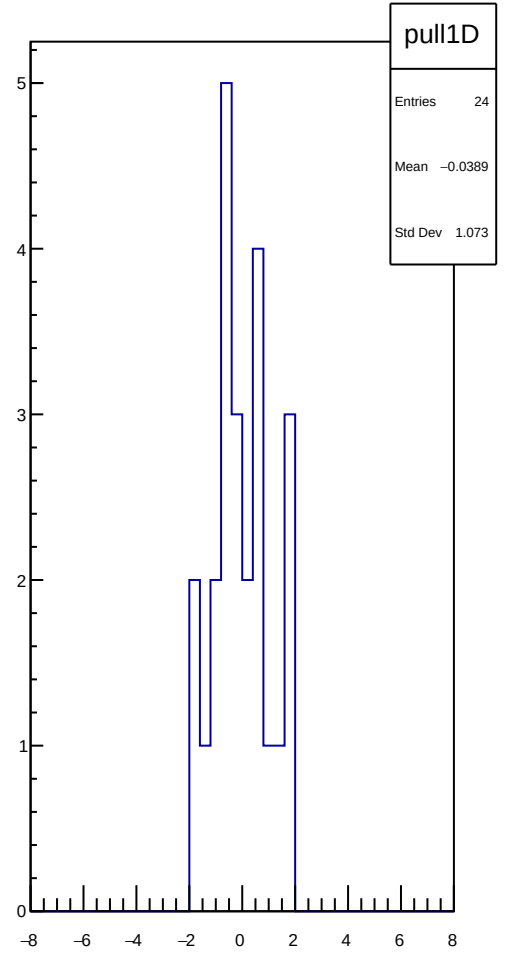
5644. 2
5644. 3

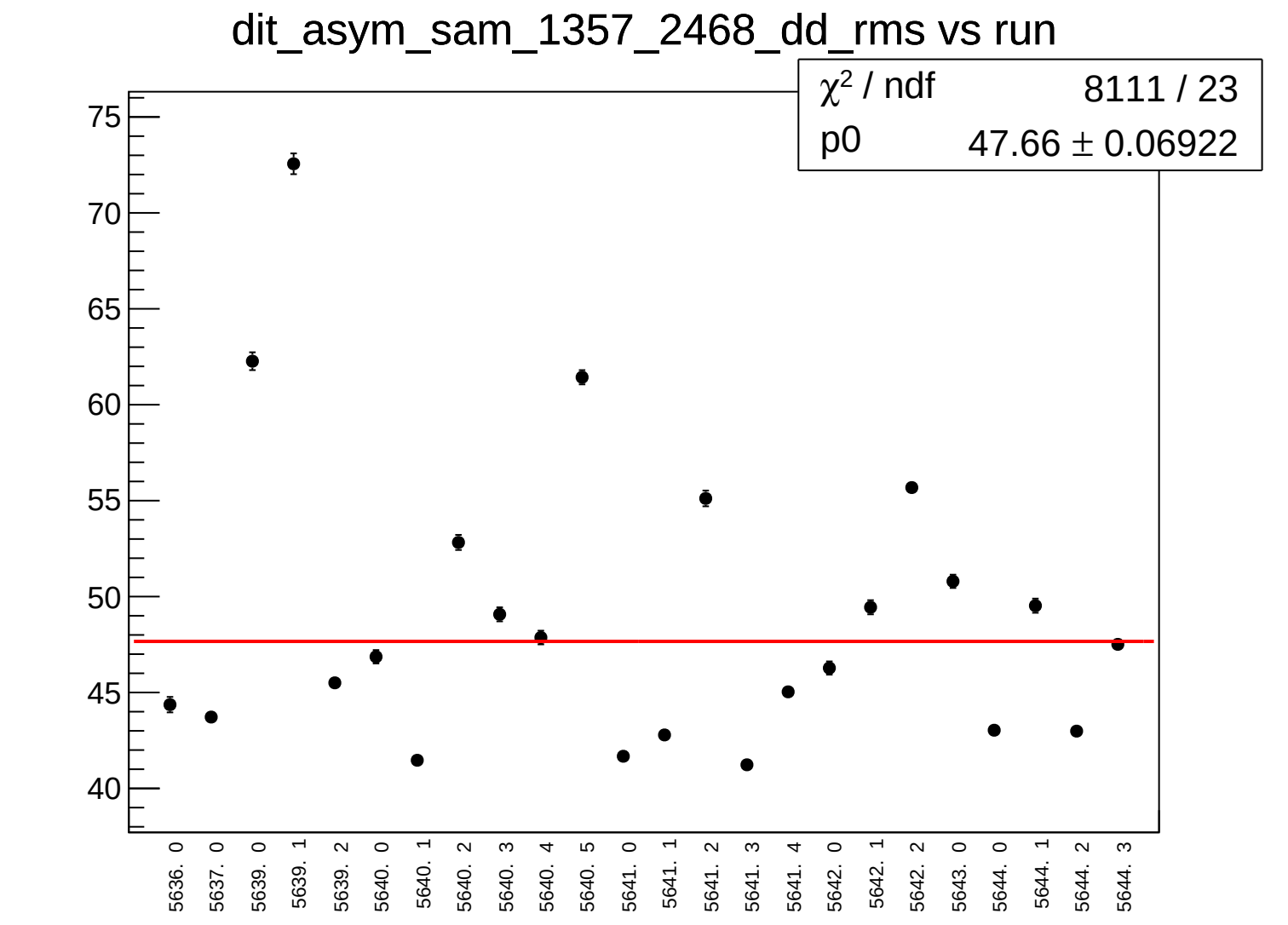

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 25.44 / 23
p0 559.3 ± 1085
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 21.85
Std Dev 25.4
1.5
1
0.5
0
−0.5
−1
−1.5

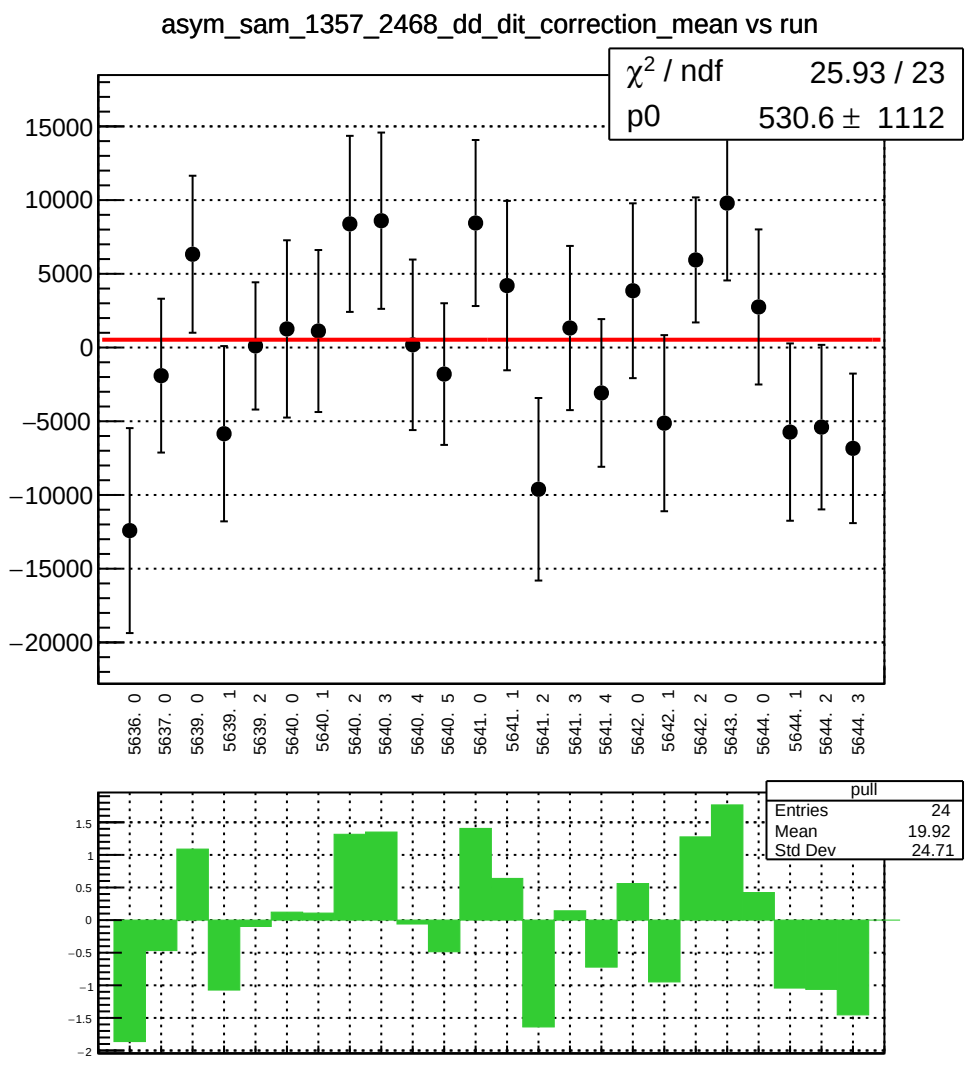

pull1D
Entries 24
Mean −0.02643
Std Dev 1.029
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

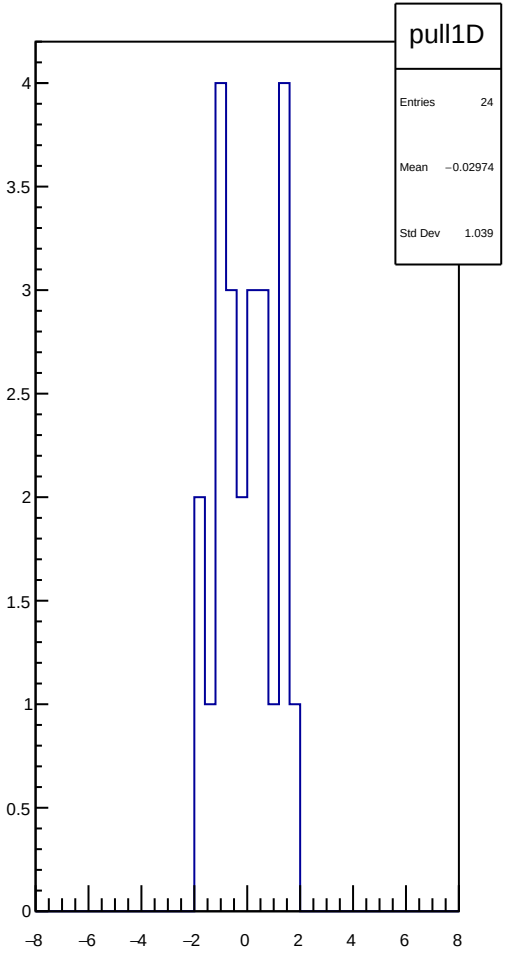

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 1086 / 23
p0 532 ± 0.767
580
560
540
520
500
480
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

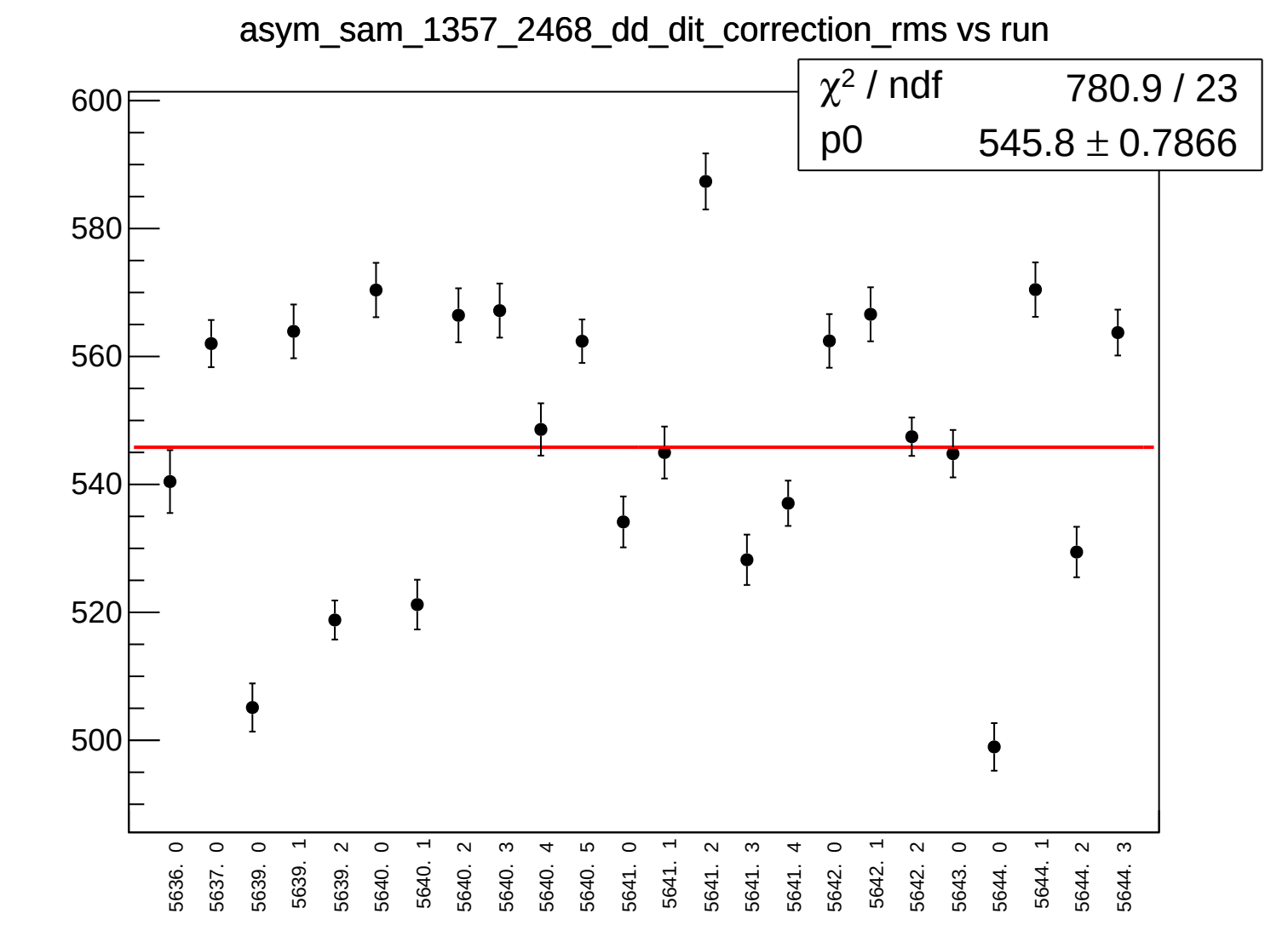

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 27.67 / 23
p0 15.62 ± 97.89
1500
1000
500
0
−500
−1000
−1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −33.07
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

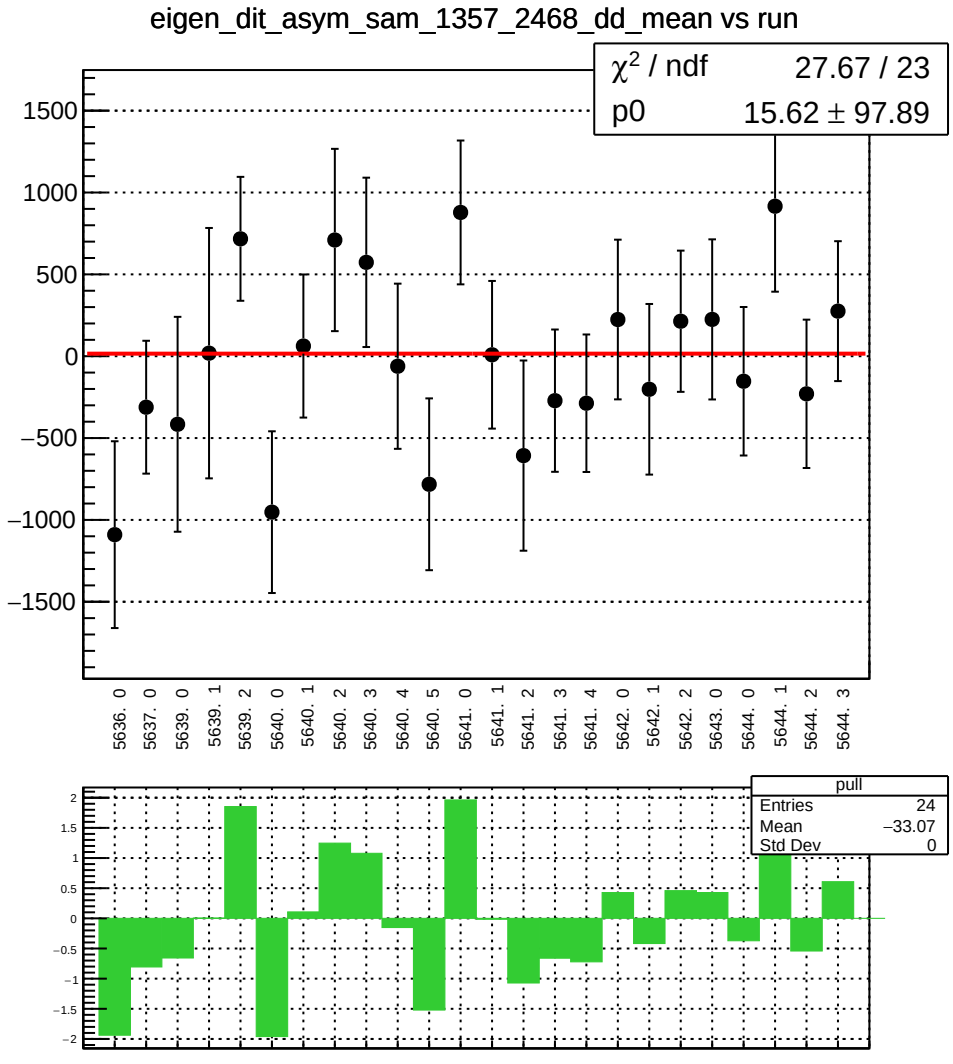

pull1D
Entries 24
Mean −0.0389
Std Dev 1.073
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

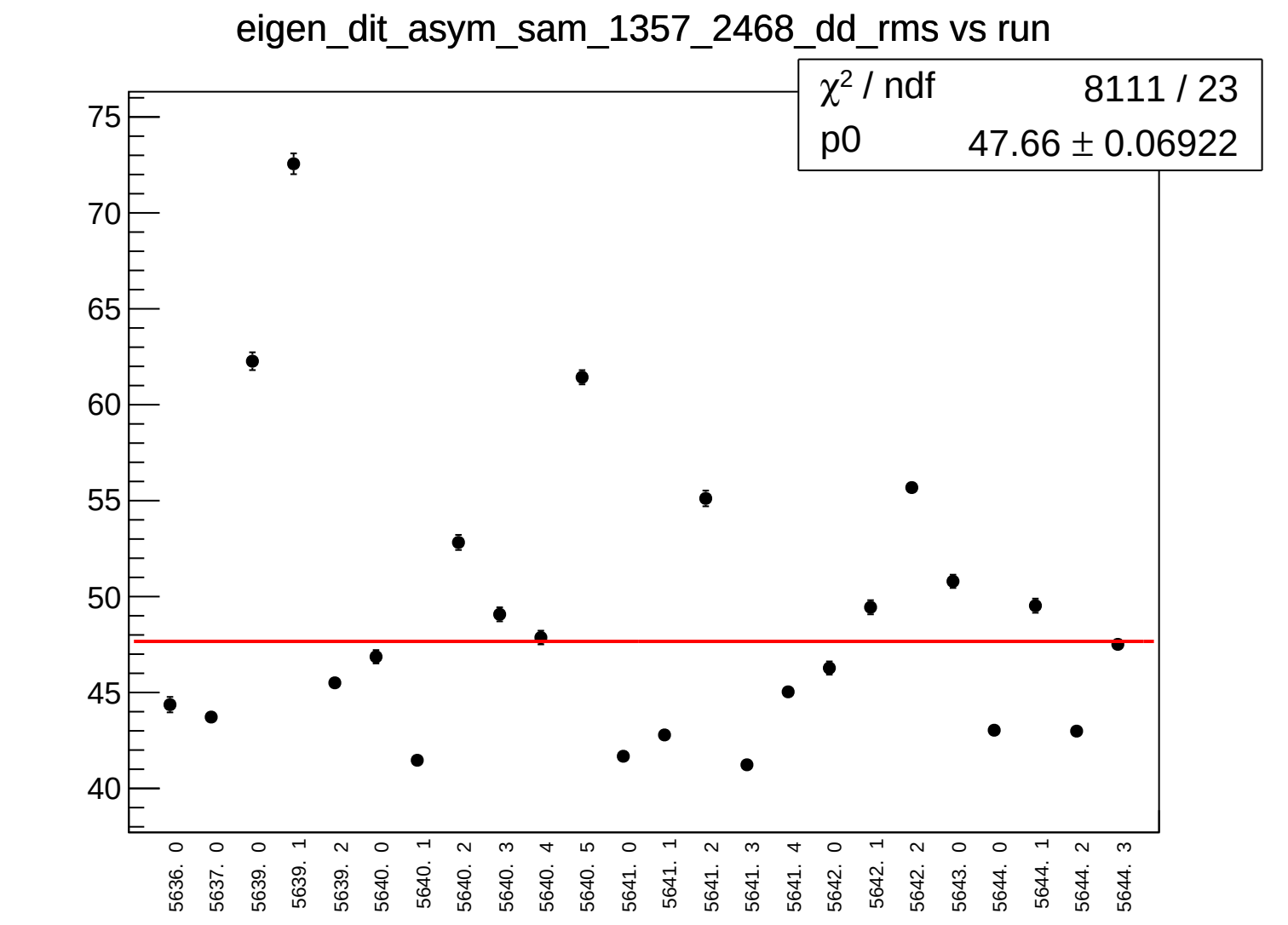

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 8111 / 23
p0 47.66 ± 0.06922
75
70
65
60
55
50
45
40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 25.93 / 23
p0 530.6 ± 1112
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 19.92
Std Dev 24.71
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 24
Mean −0.02974
Std Dev 1.039
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 780.9 / 23
p0 545.8 ± 0.7866
600
580
560
540
520
500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 27.67 / 23
p0 15.62 ± 97.89
1500
1000
500
0
−500
−1000
−1500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −33.07
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.0389
Std Dev 1.073
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 8111 / 23
p0 47.66 ± 0.06922
75
70
65
60
55
50
45
40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
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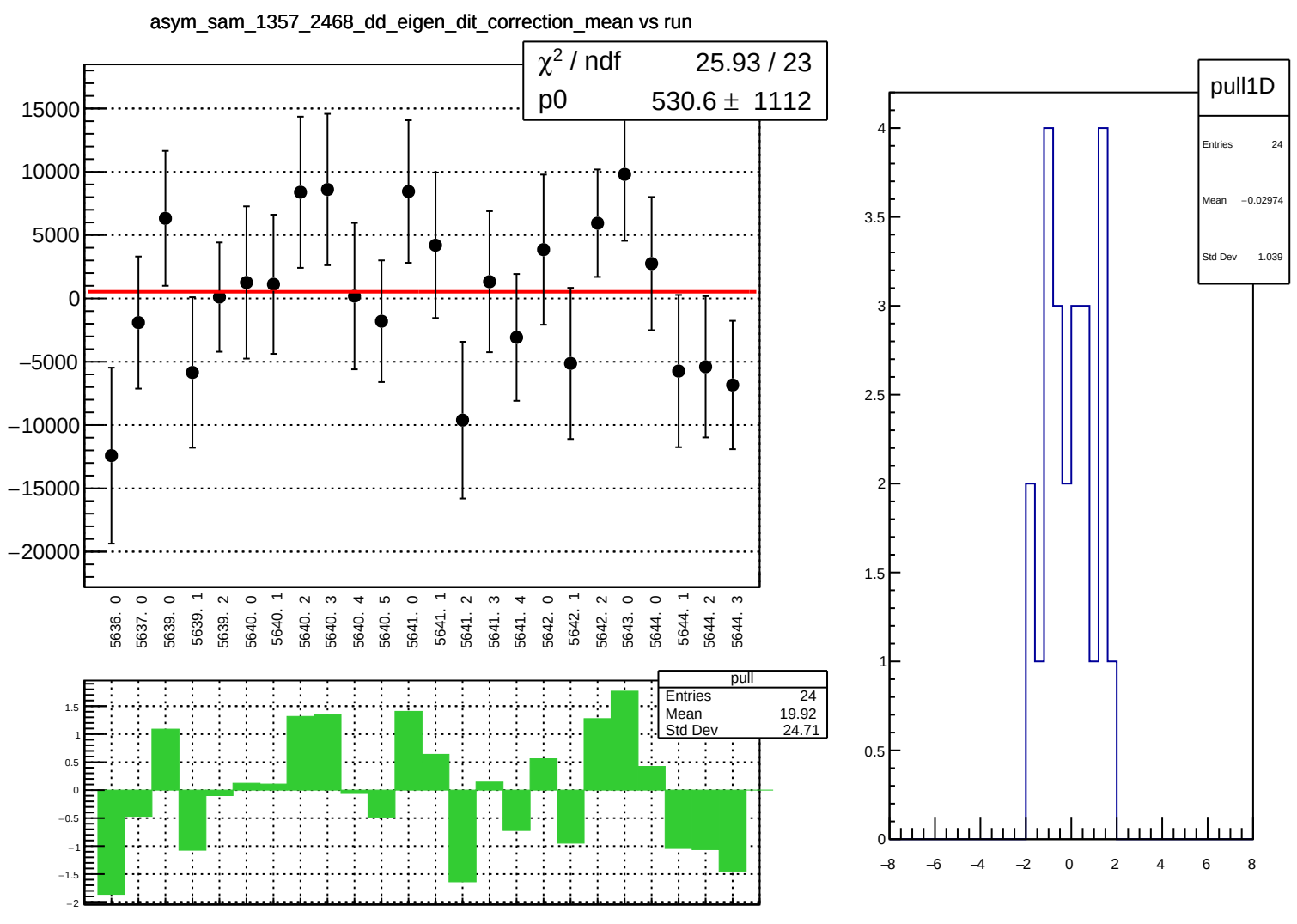
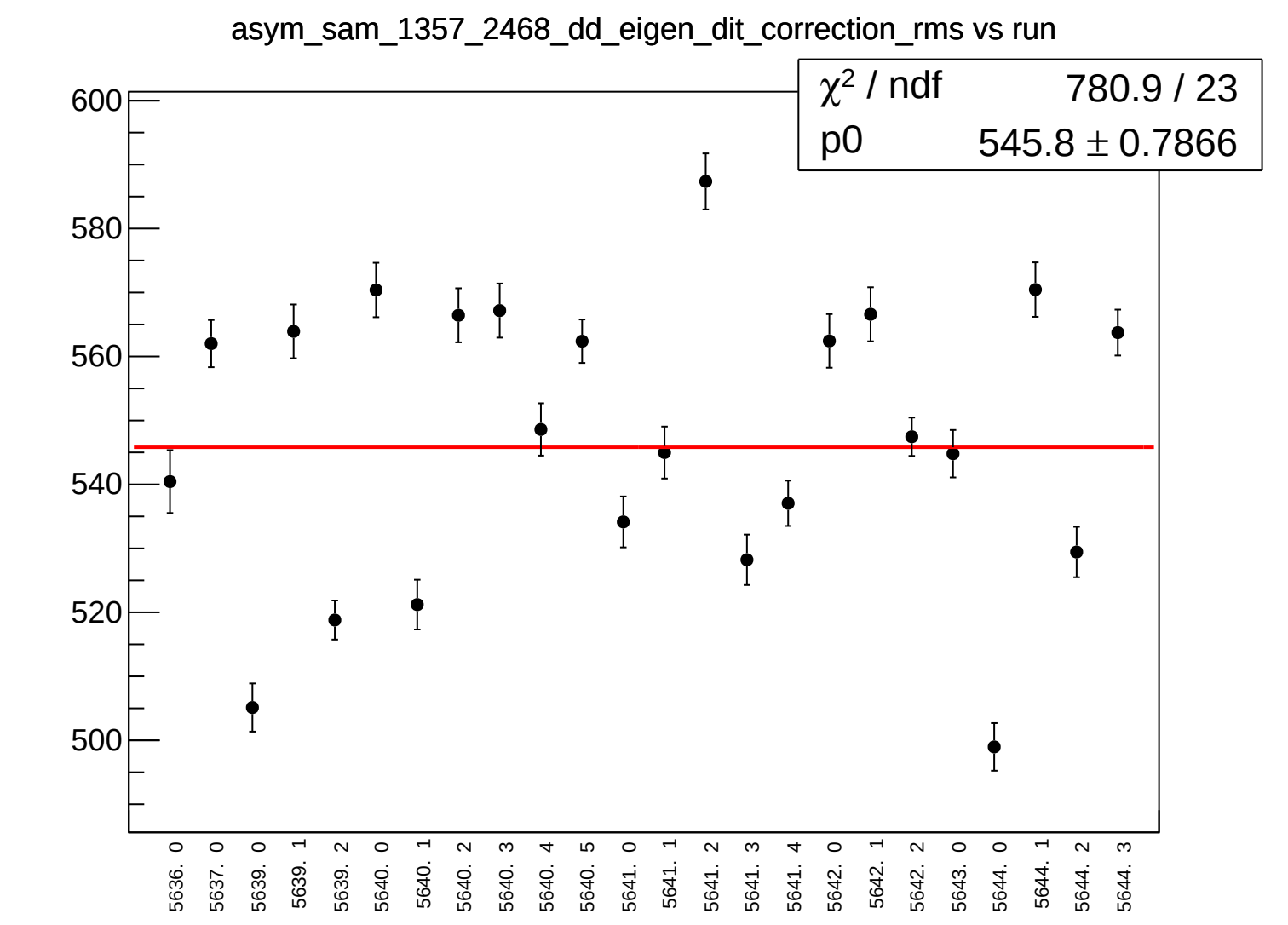
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 25.93 / 23
p0 530.6 ± 1112
15000
10000
5000
0
−5000
−10000
−15000
−20000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 19.92
Std Dev 24.71
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.02974
Std Dev 1.039
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 780.9 / 23
p0 545.8 ± 0.7866
600
580
560
540
520
500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5642. 0
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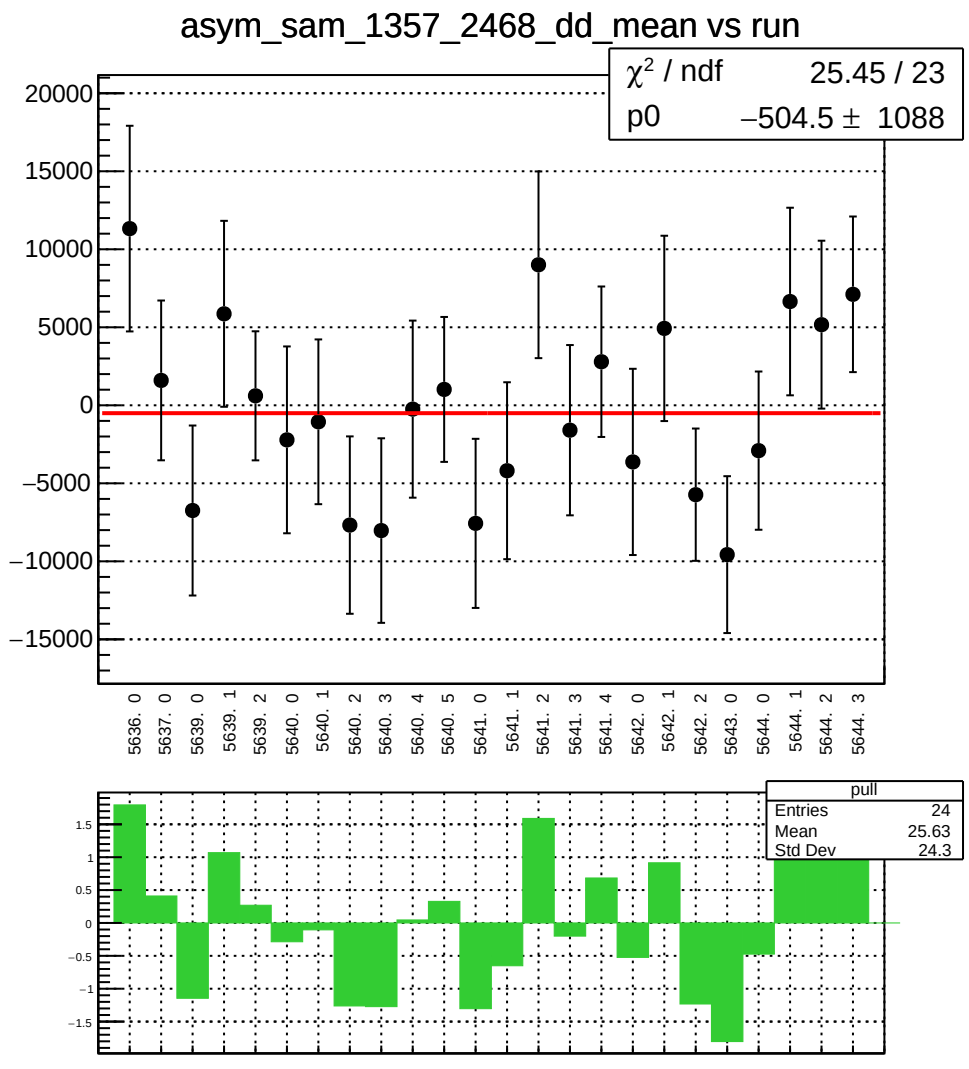
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_1357_2468_dd_mean vs run
χ² / ndf 25.45 / 23
p0 −504.5 ± 1088
20000
15000
10000
5000
0
−5000
−10000
−15000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 25.63
Std Dev 24.3
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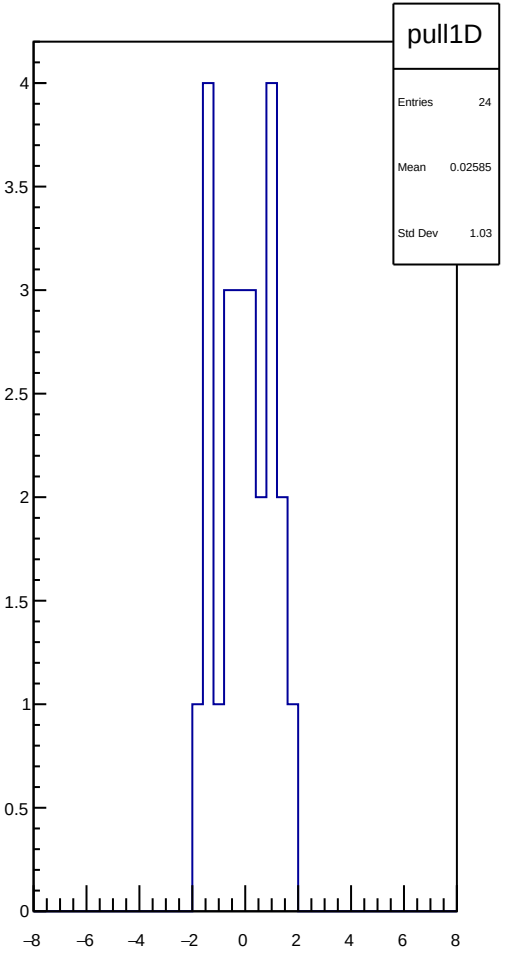
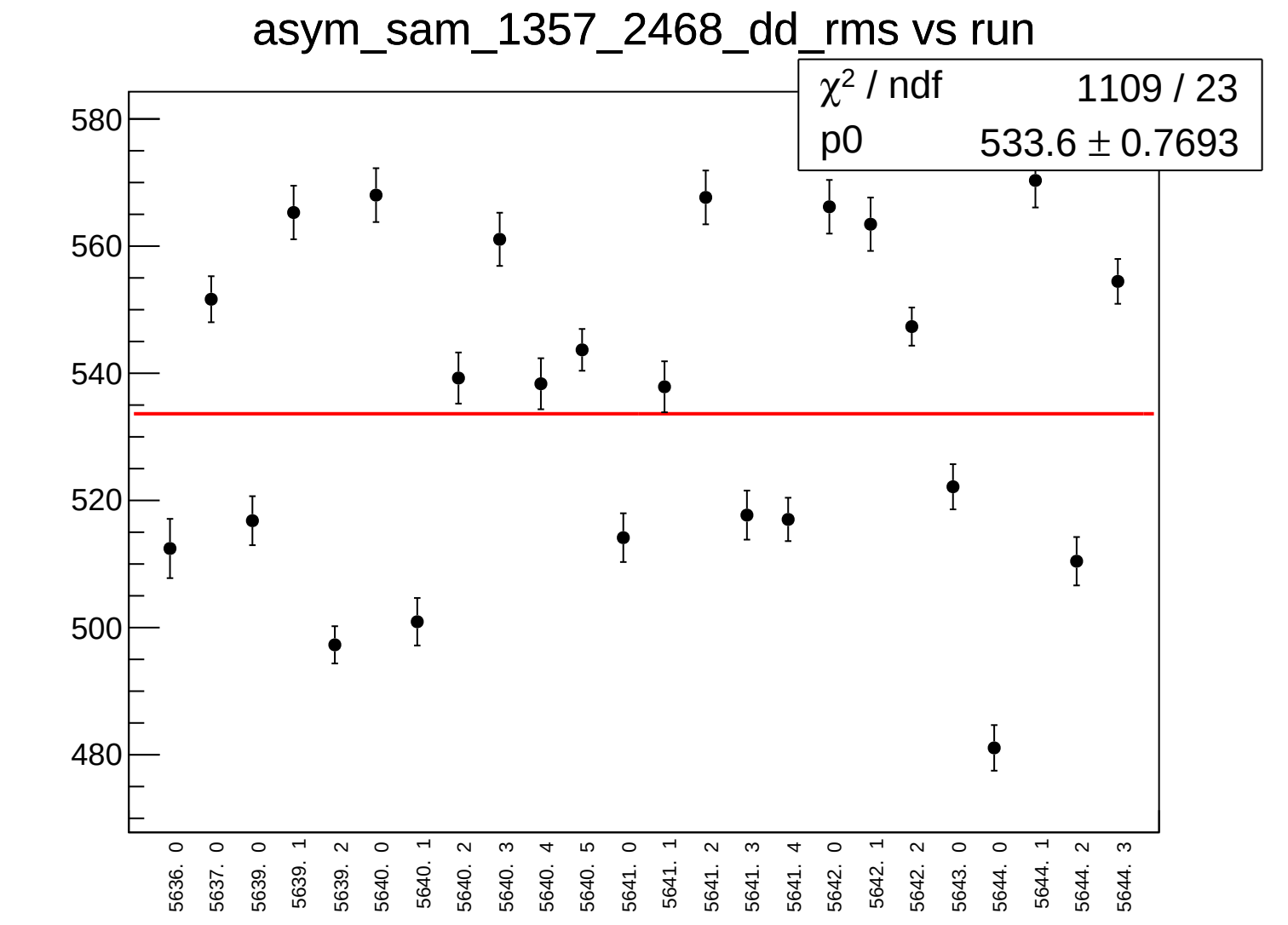
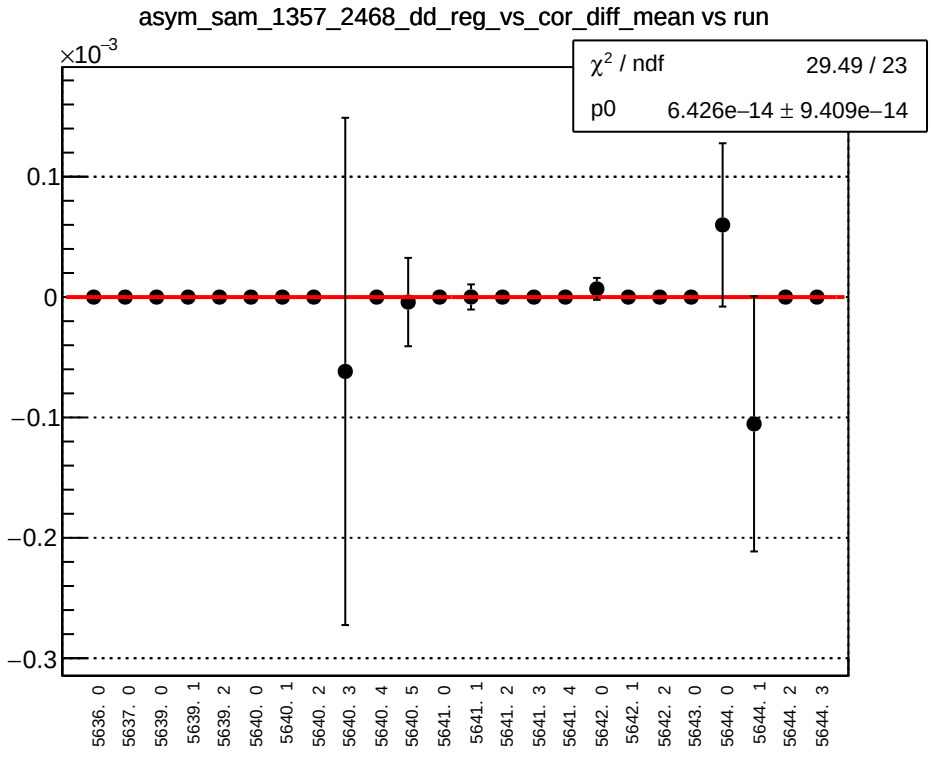
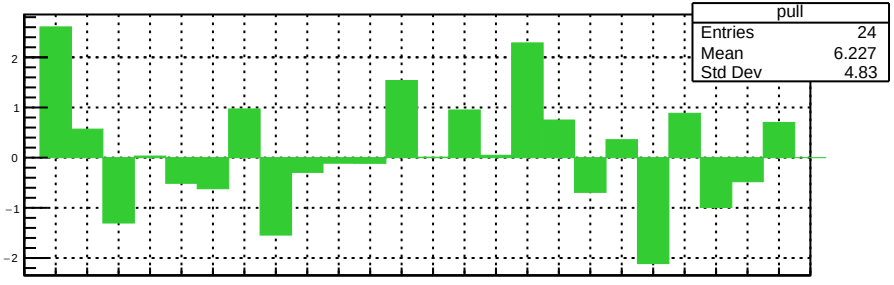
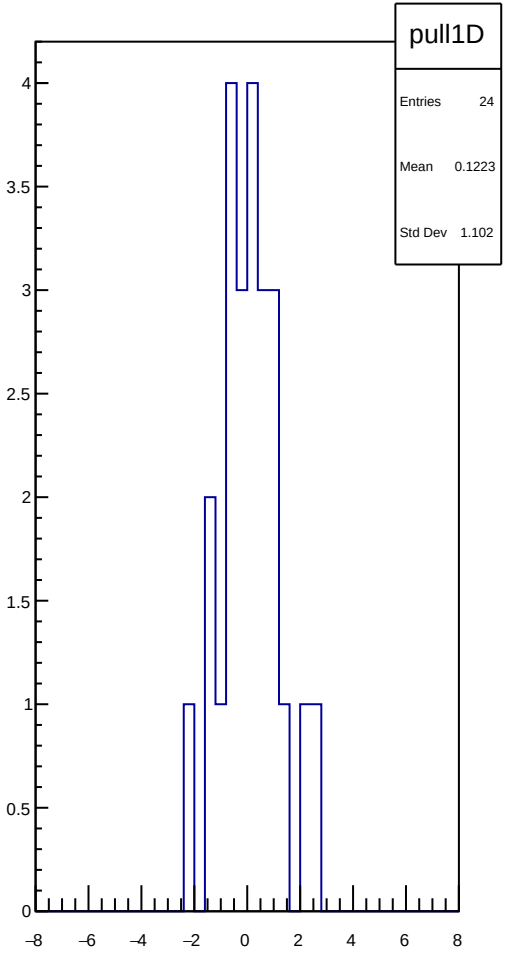
0.5
0
−0.5
−1
−1.5

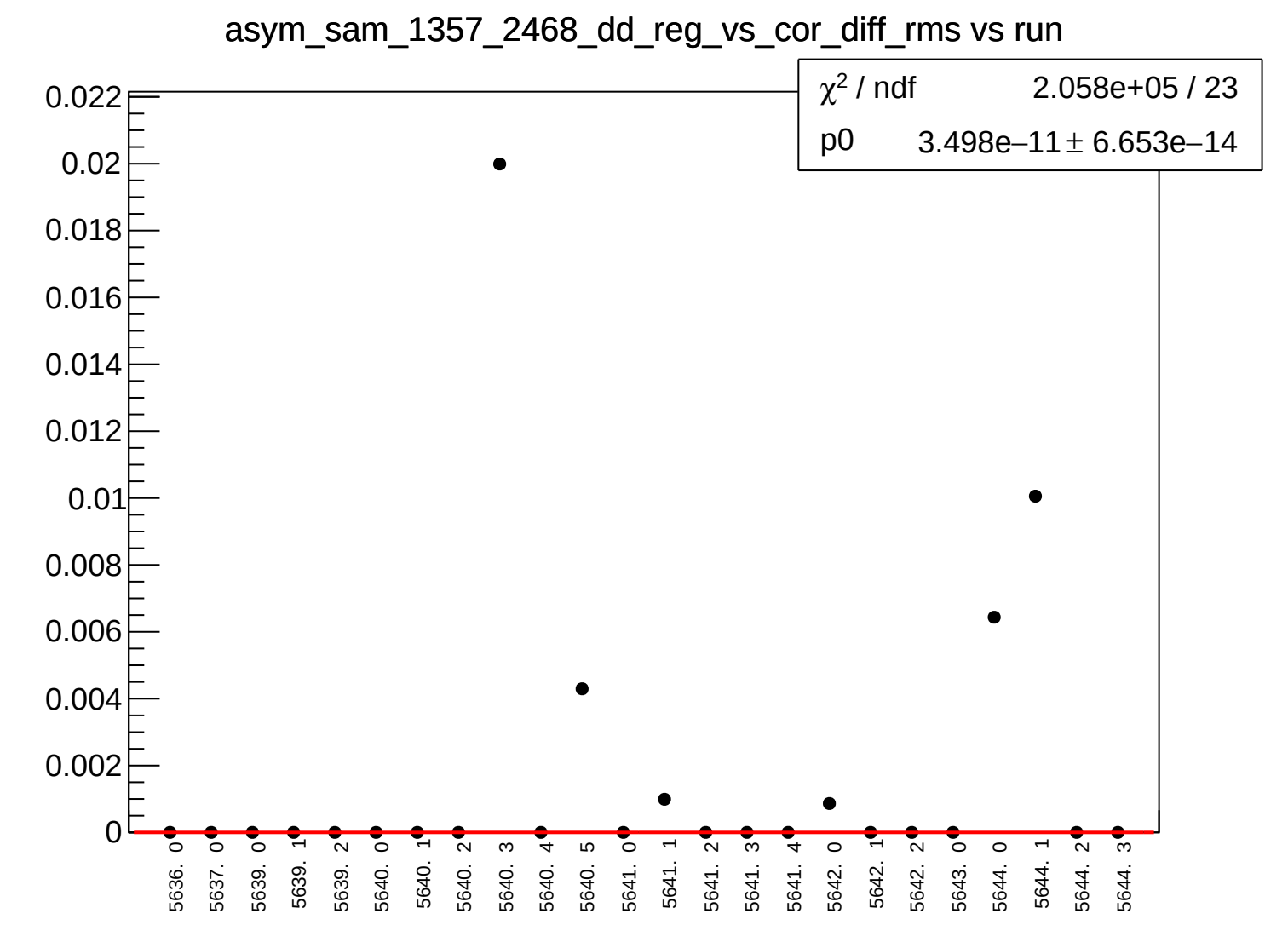

pull1D
Entries 24
Mean 0.02585
Std Dev 1.03
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

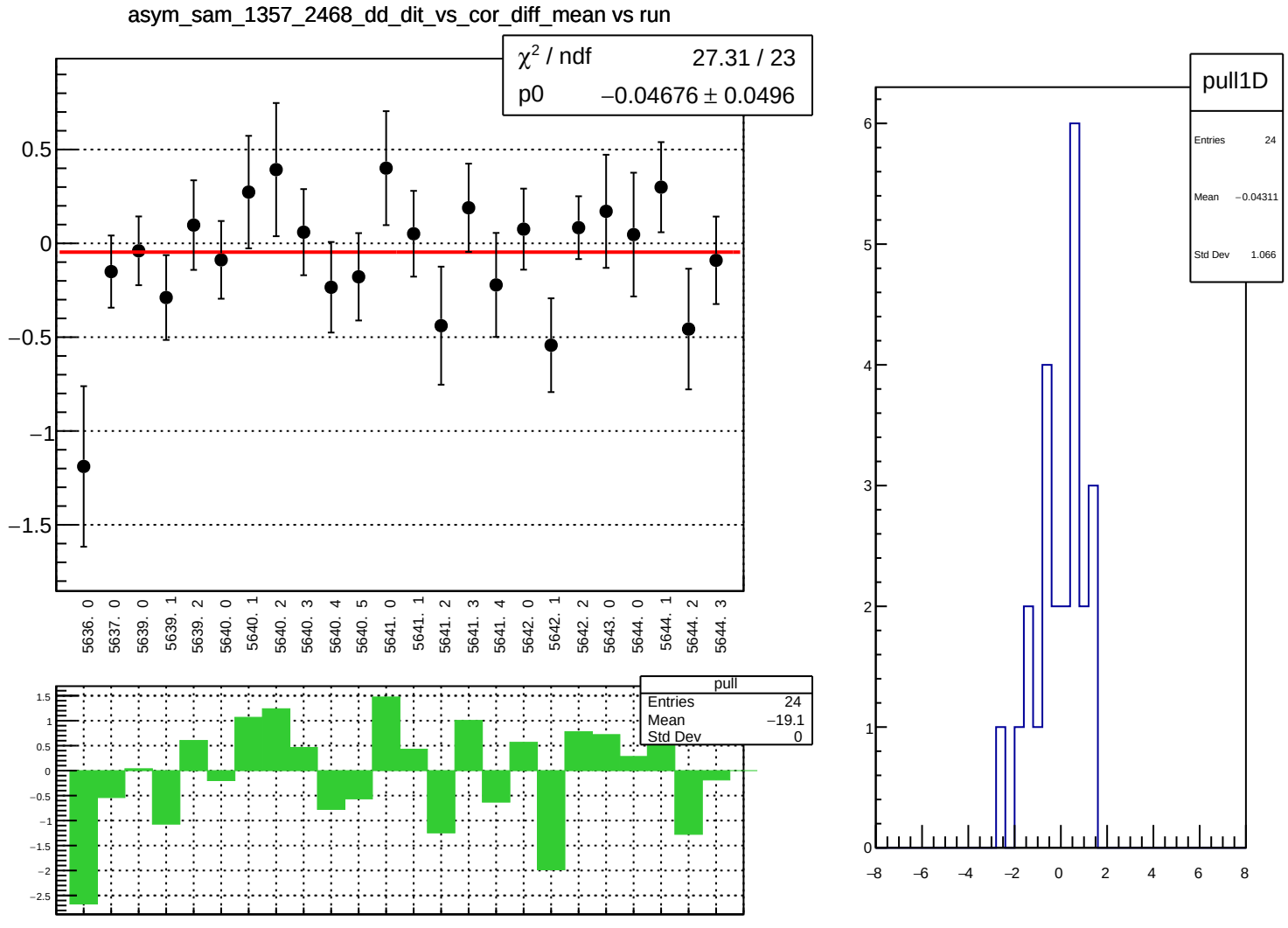

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1109 / 23
p0 533.6 ± 0.7693
580
560
540
520
500
480
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

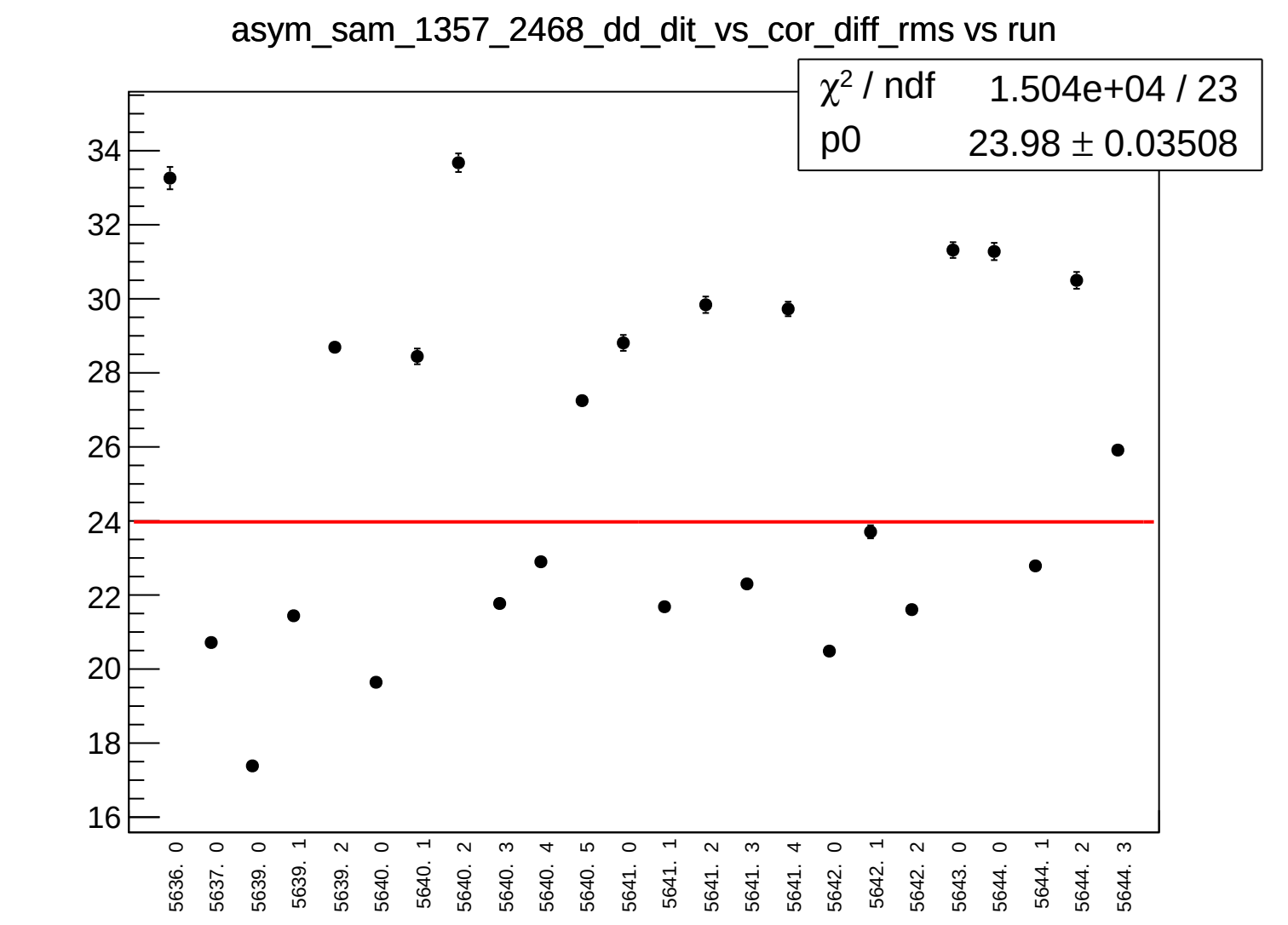

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 29.49 / 23
p0 6.426e−14 ± 9.409e−14
0.1
0
−0.1
−0.2
−0.3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

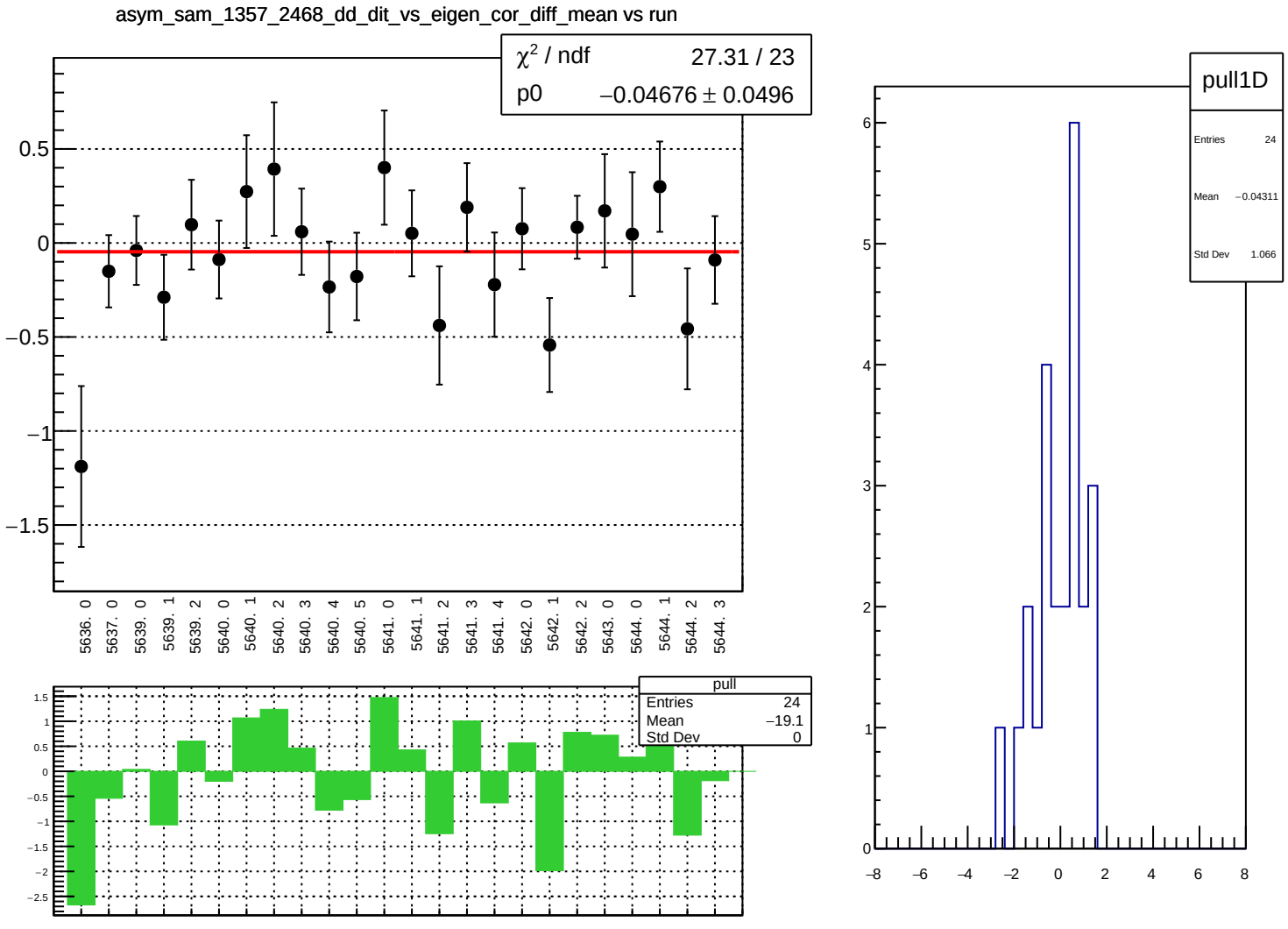

pull
Entries 24
Mean 6.227
Std Dev 4.83
2
1
0
−1
−2

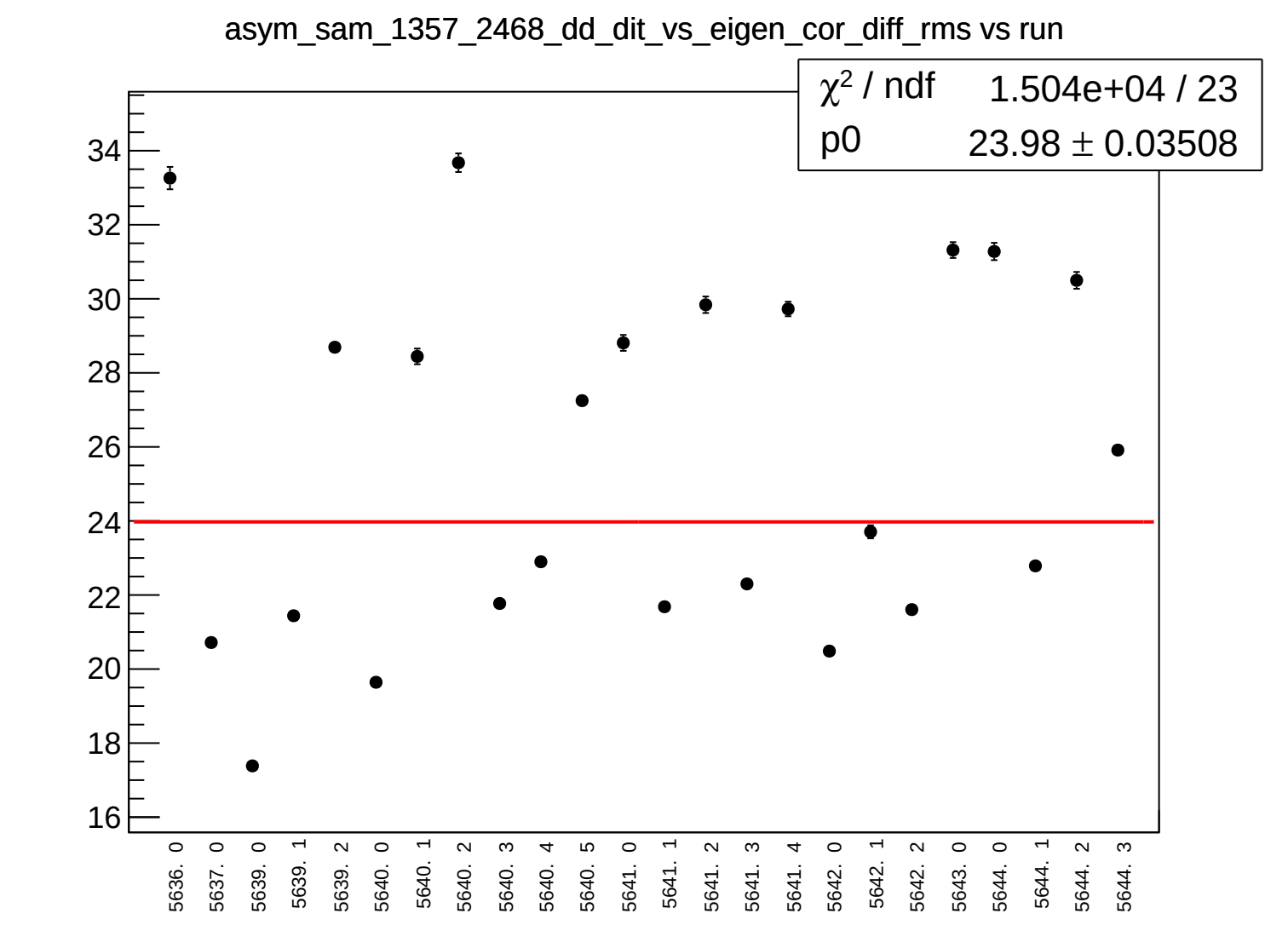

pull1D
Entries 24
Mean 0.1223
Std Dev 1.102
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

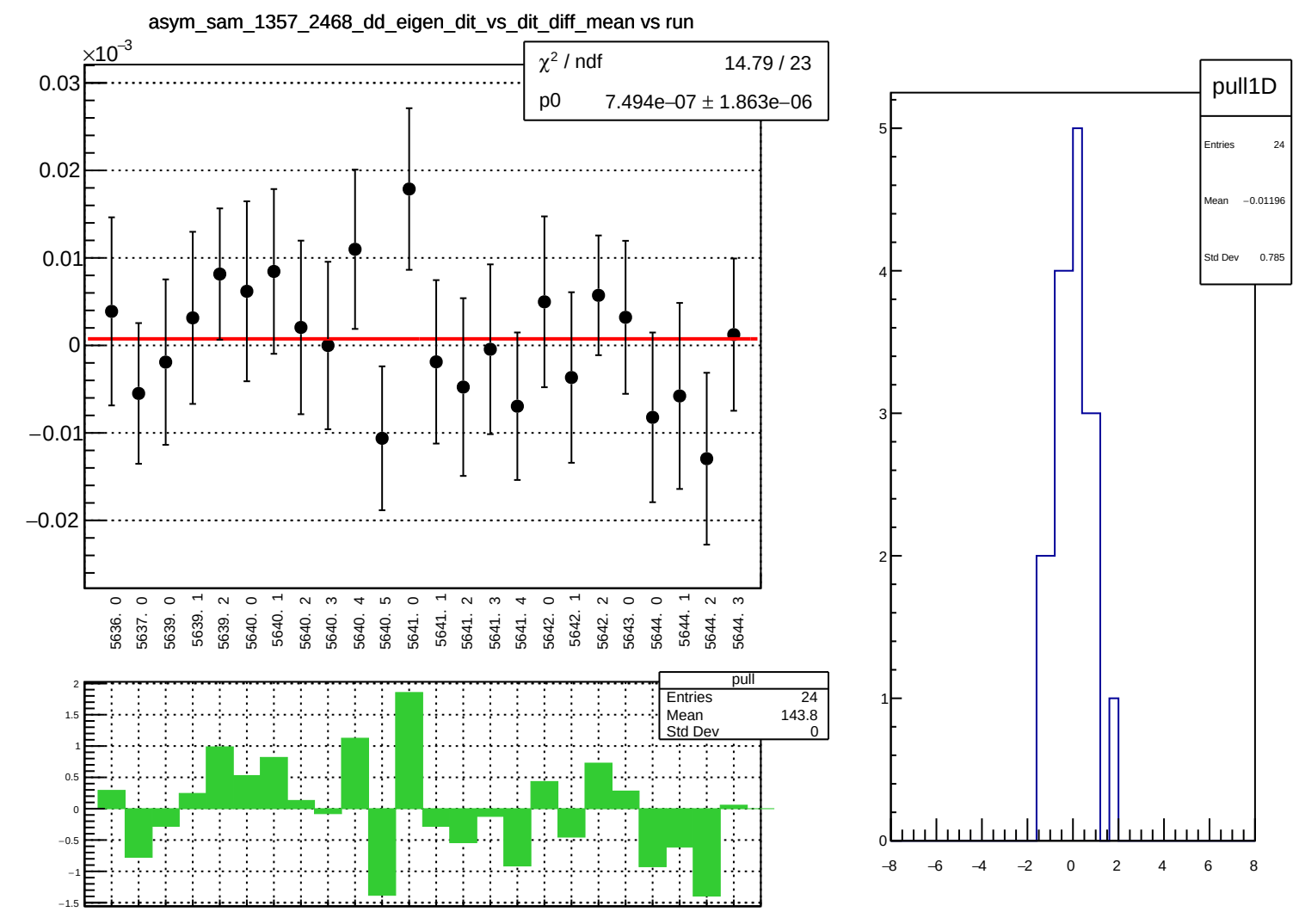

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.058e+05 / 23
p0 3.498e−11 ± 6.653e−14
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

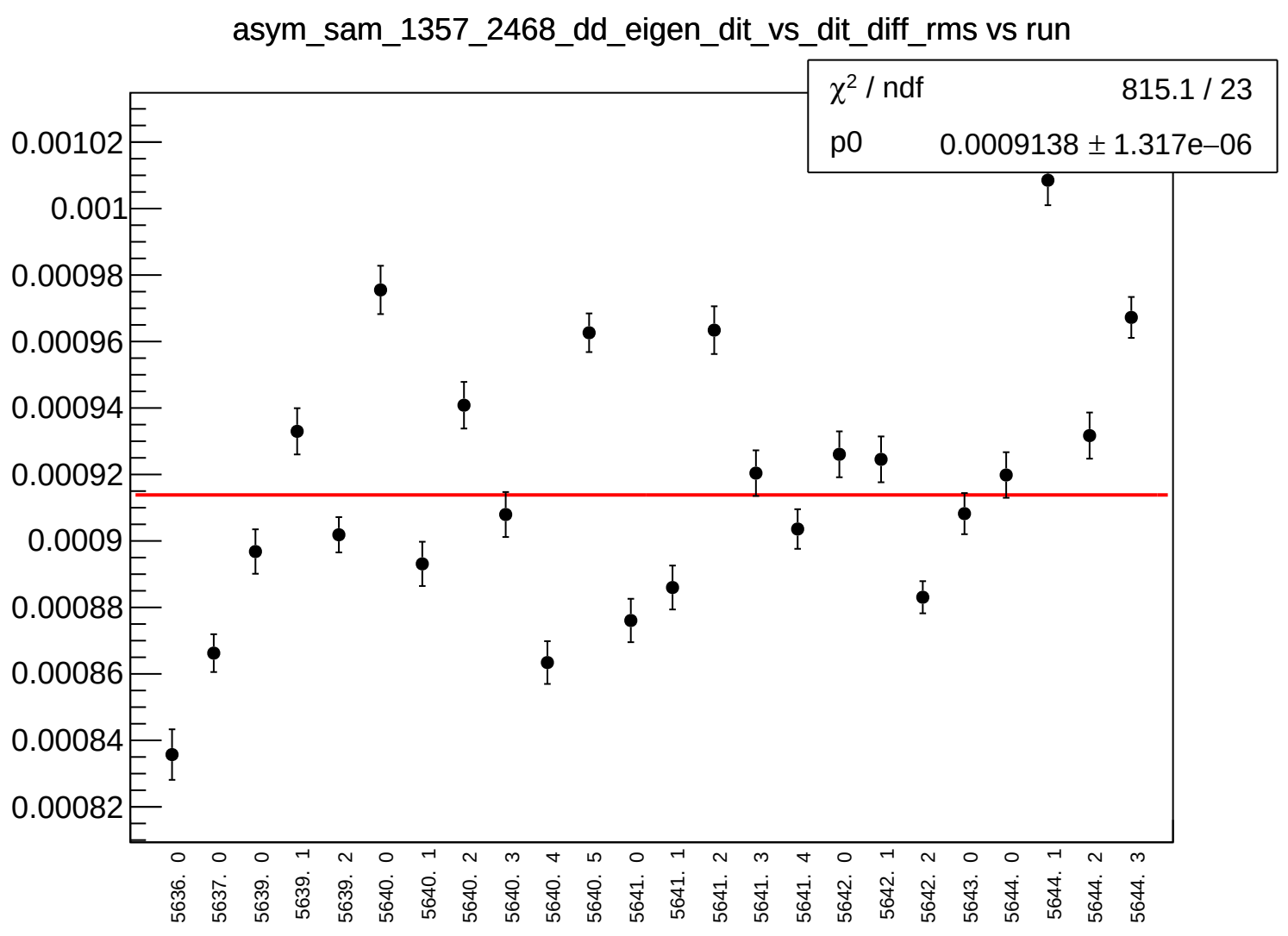

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 27.31 / 23
p0 −0.04676 ± 0.0496
0.5
0
−0.5
−1
−1.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −19.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean −0.04311
Std Dev 1.066
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

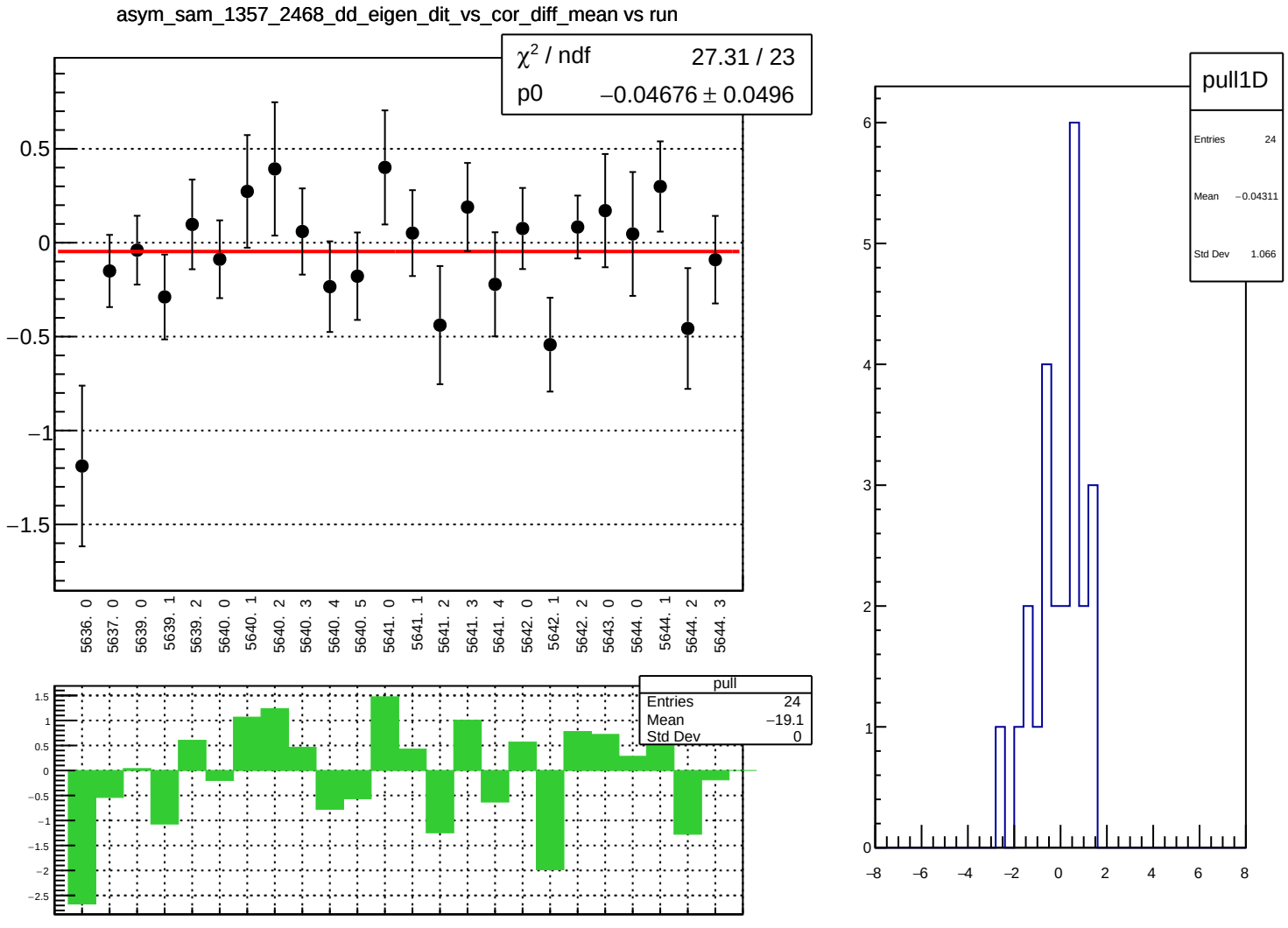

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.504e+04 / 23
p0 23.98 ± 0.03508
34
32
30
28
26
24
22
20
18
16
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

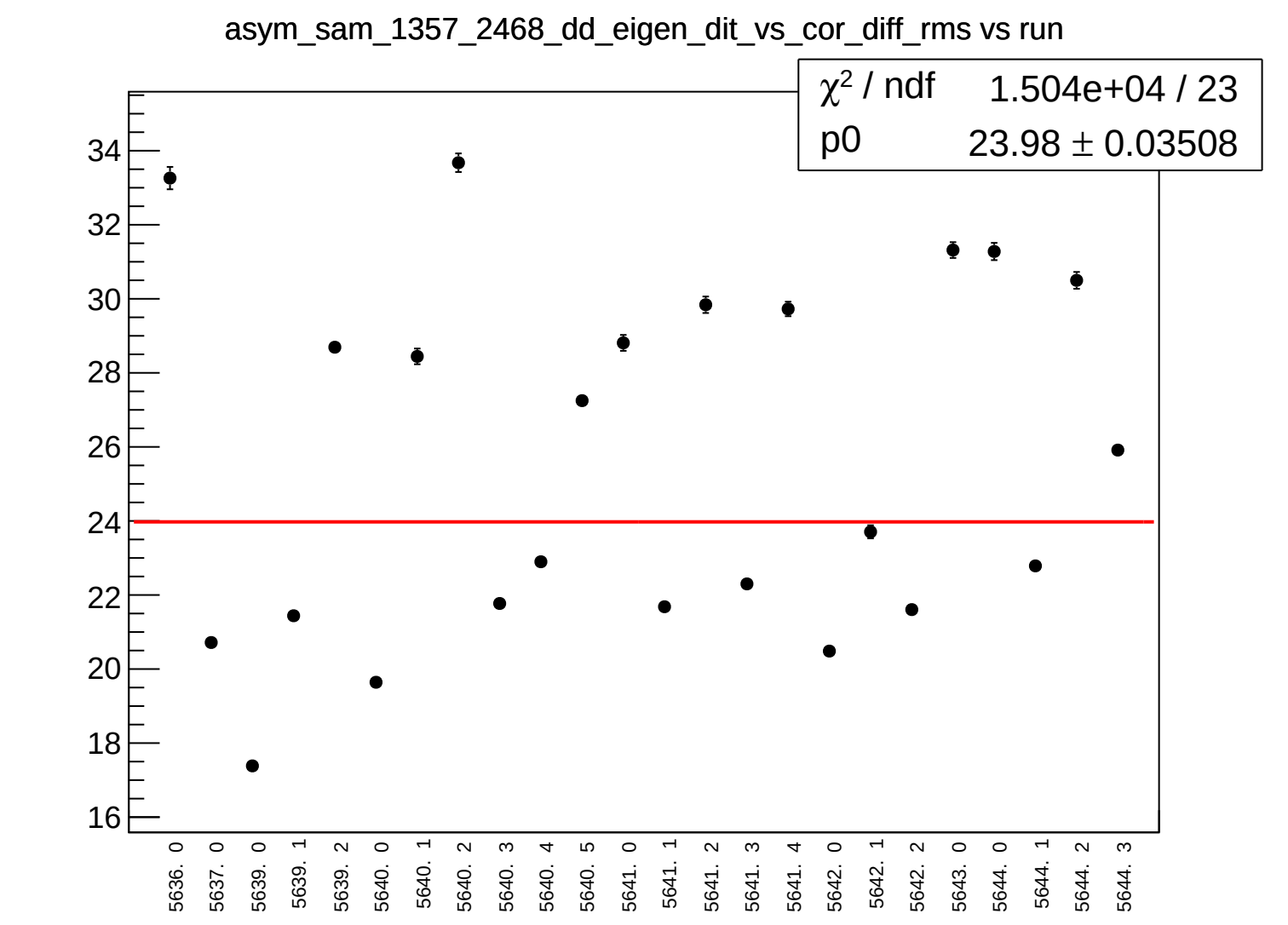

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.31 / 23
p0 −0.04676 ± 0.0496
0.5
0
−0.5
−1
−1.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −19.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean −0.04311
Std Dev 1.066
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

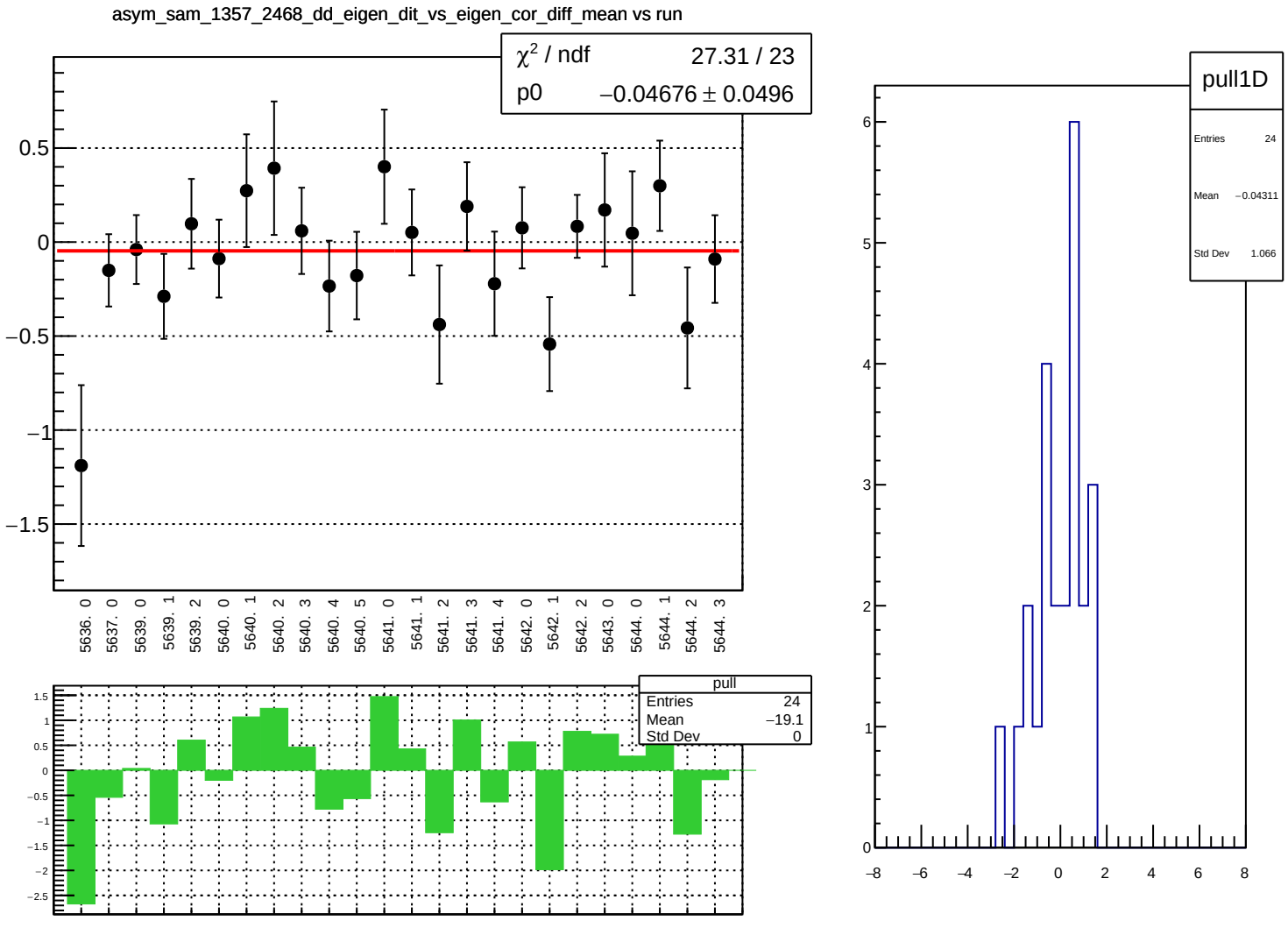

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.504e+04 / 23
p0 23.98 ± 0.03508
34
32
30
28
26
24
22
20
18
16
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

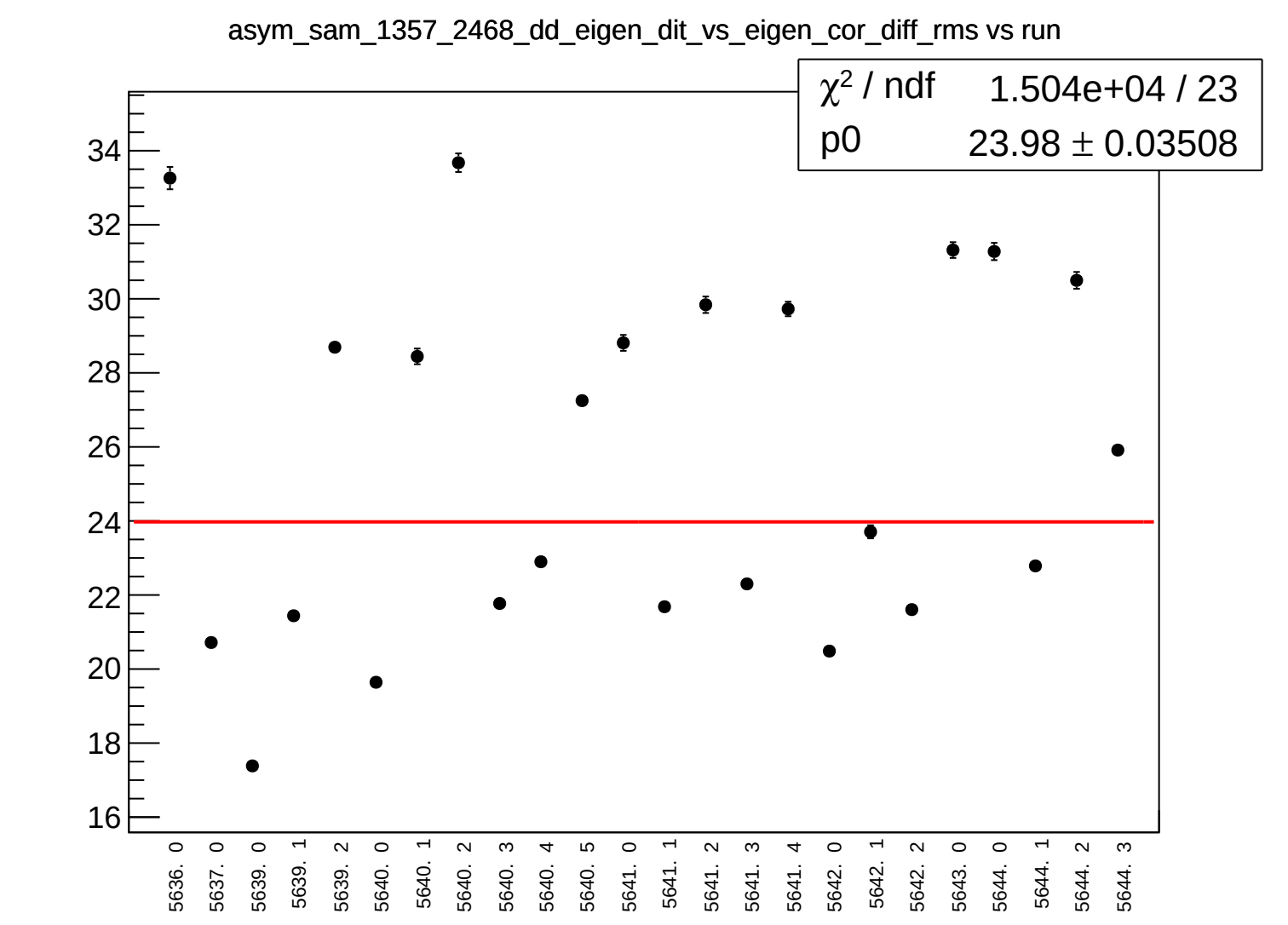

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 14.79 / 23
p0 7.494e−07 ± 1.863e−06
0.03
0.02
0.01
0
−0.01
−0.02
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 143.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.01196
Std Dev 0.785
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

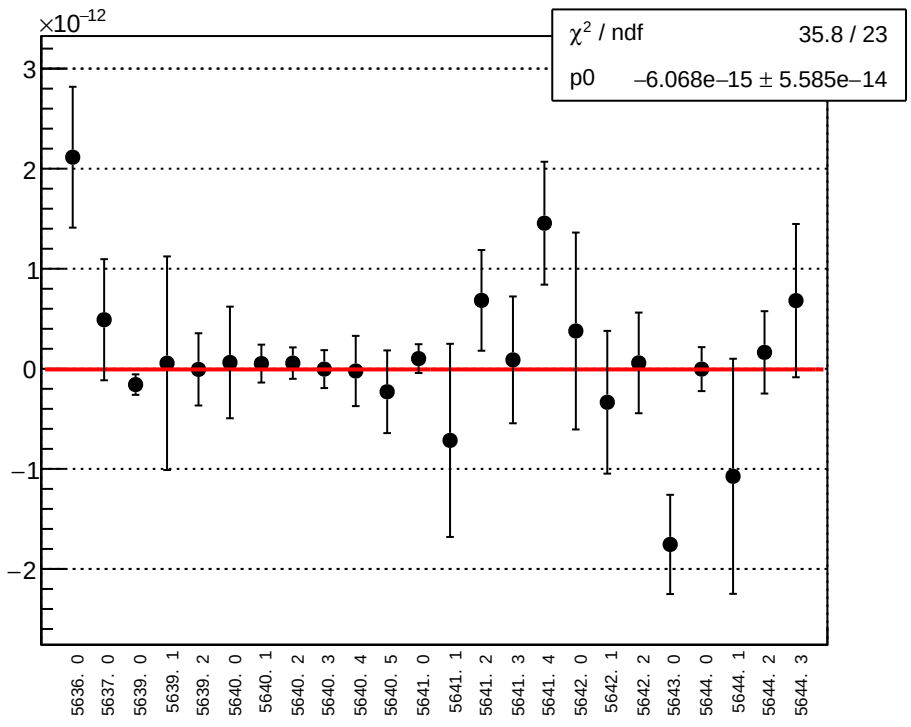

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 815.1 / 23
p0 0.0009138 ± 1.317e−06
0.00102
0.001
0.00098
0.00096
0.00094
0.00092
0.0009
0.00088
0.00086
0.00084
0.00082
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

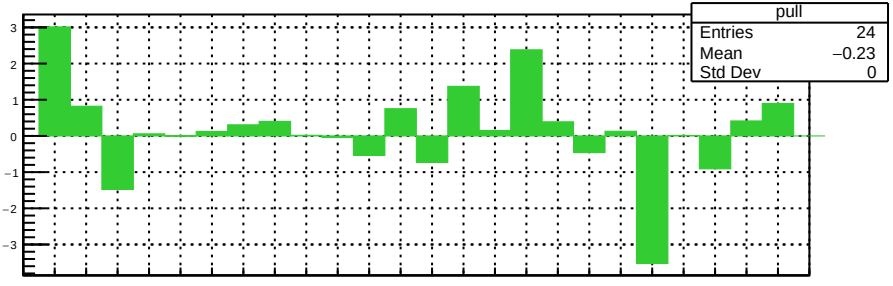

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 27.31 / 23
p0 −0.04676 ± 0.0496
0.5
0
−0.5
−1
−1.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −19.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean −0.04311
Std Dev 1.066
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

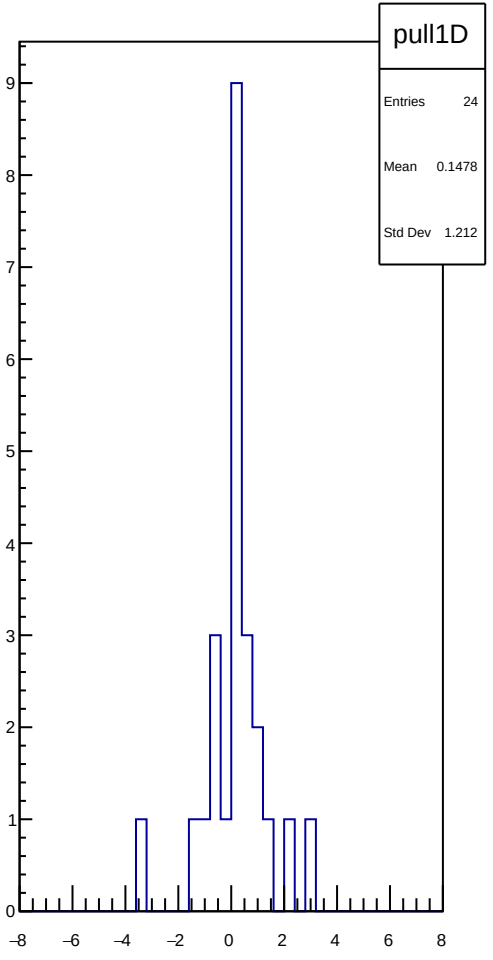

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.504e+04 / 23
p0 23.98 ± 0.03508
34
32
30
28
26
24
22
20
18
16
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

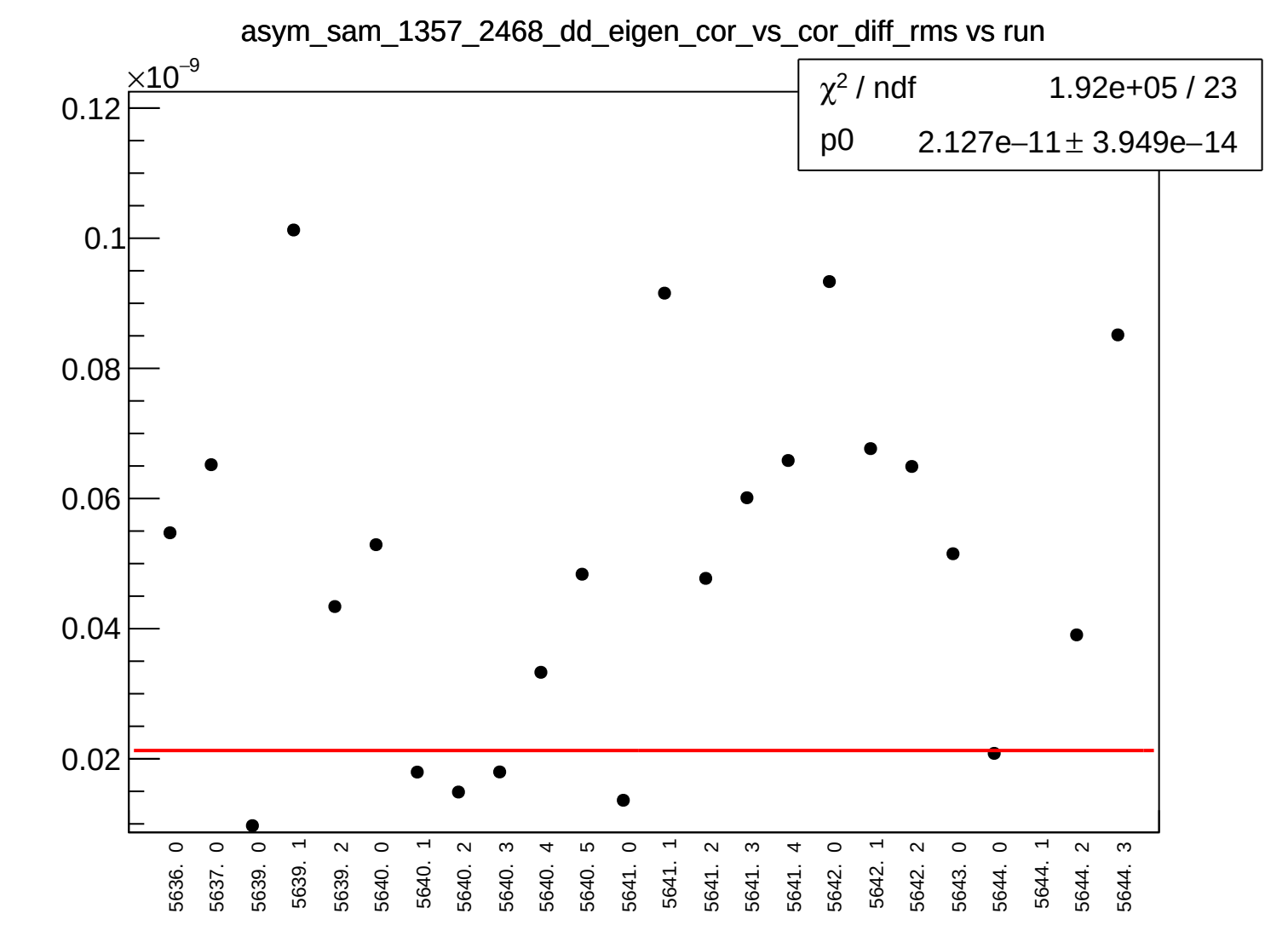

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.31 / 23
p0 −0.04676 ± 0.0496
0.5
0
−0.5
−1
−1.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −19.1
Std Dev 0
pull1D
Entries 24
Mean −0.04311
Std Dev 1.066

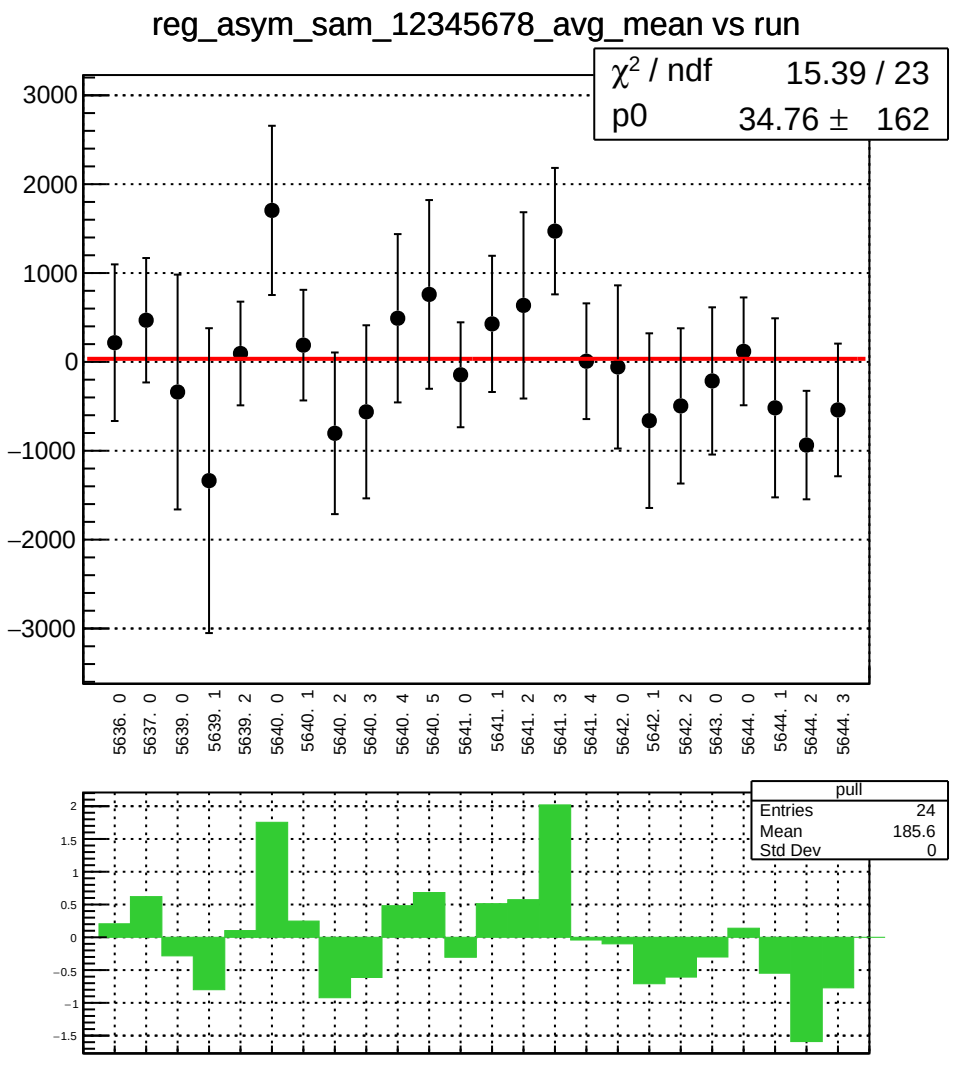

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.504e+04 / 23
p0 23.98 ± 0.03508
34
32
30
28
26
24
22
20
18
16
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

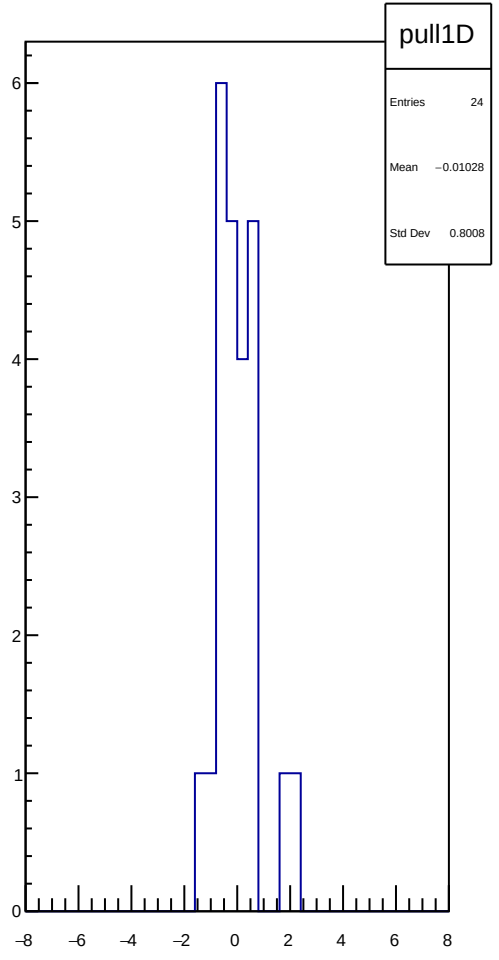

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 35.8 / 23
p0 −6.068e−15 ± 5.585e−14
3
2
1
0
−1
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

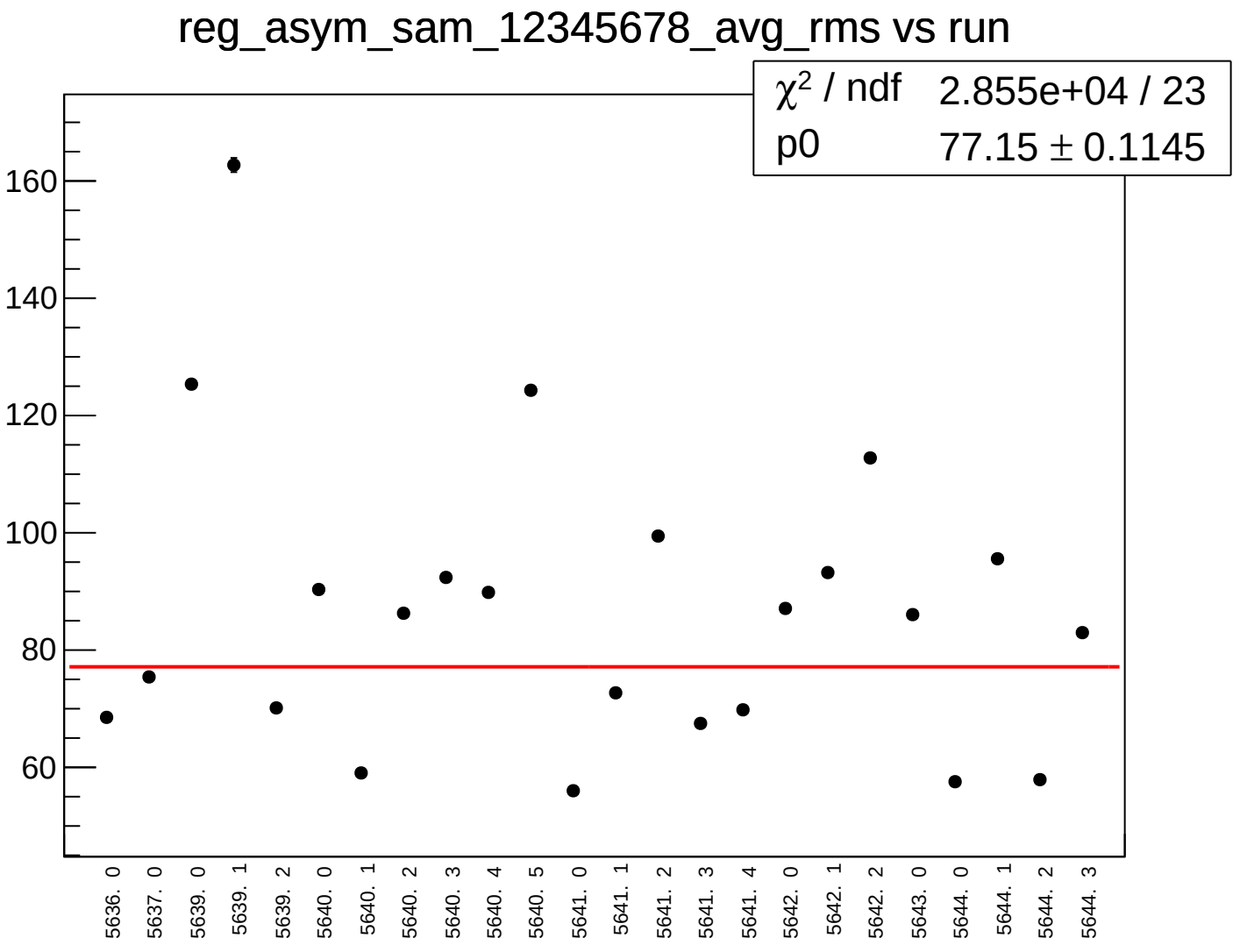

pull
Entries 24
Mean −0.23
Std Dev 0
3
2
1
0
−1
−2
−3

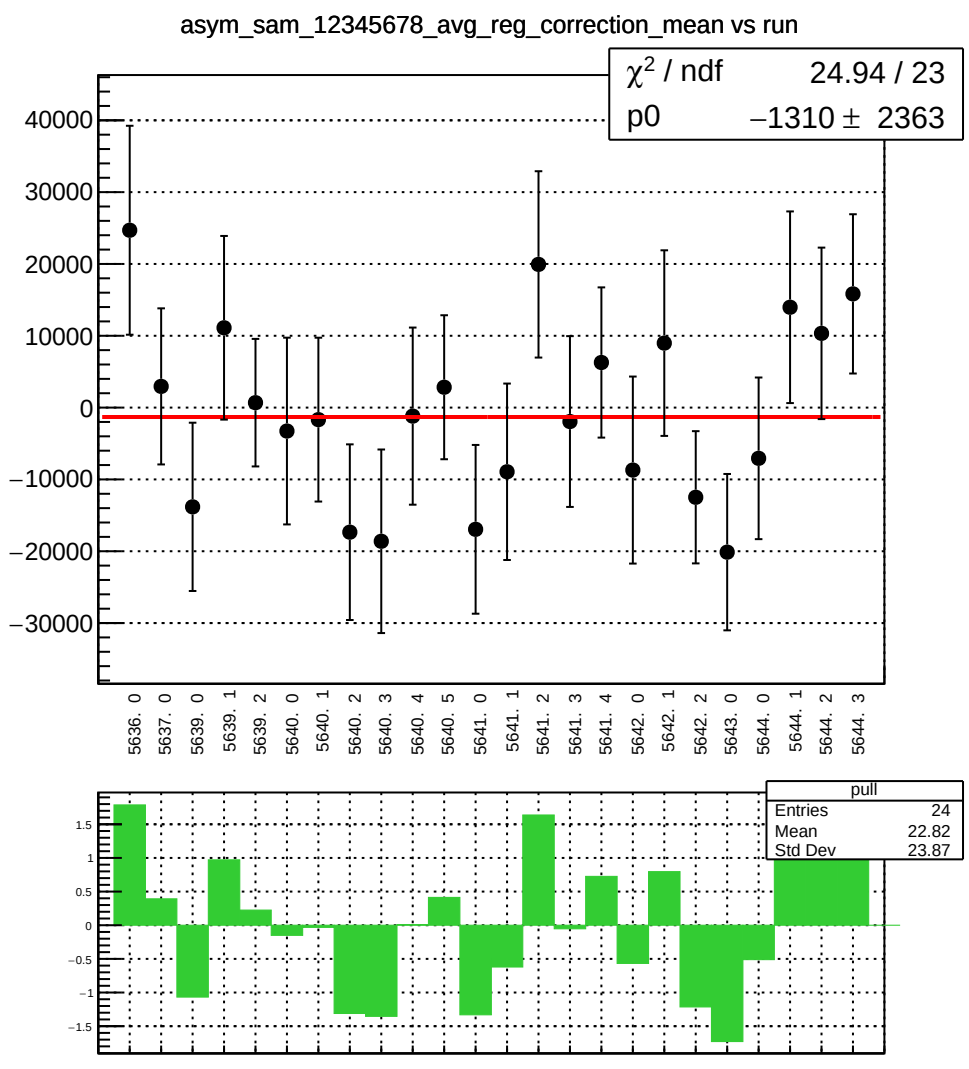

pull1D
Entries 24
Mean 0.1478
Std Dev 1.212
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

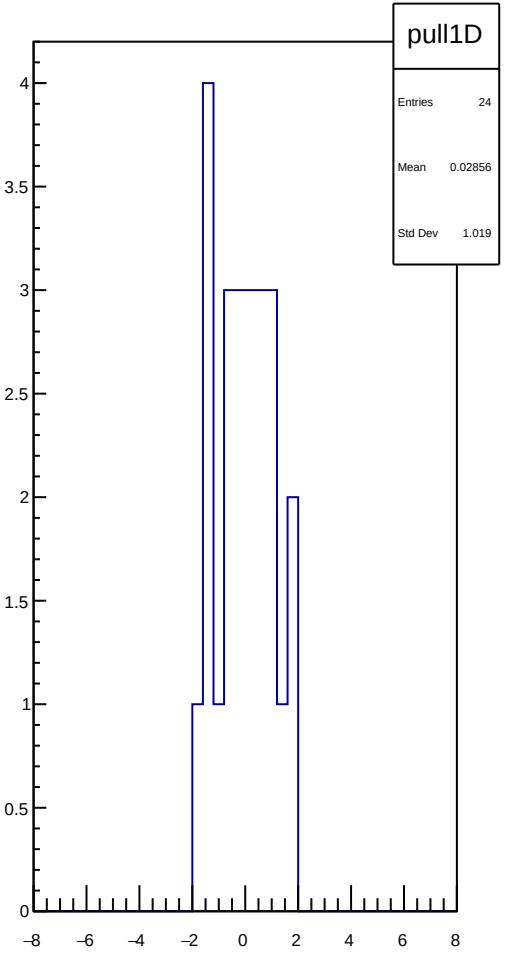

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.92e+05 / 23
p0 2.127e−11 ± 3.949e−14
0.12
0.1
0.08
0.06
0.04
0.02
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

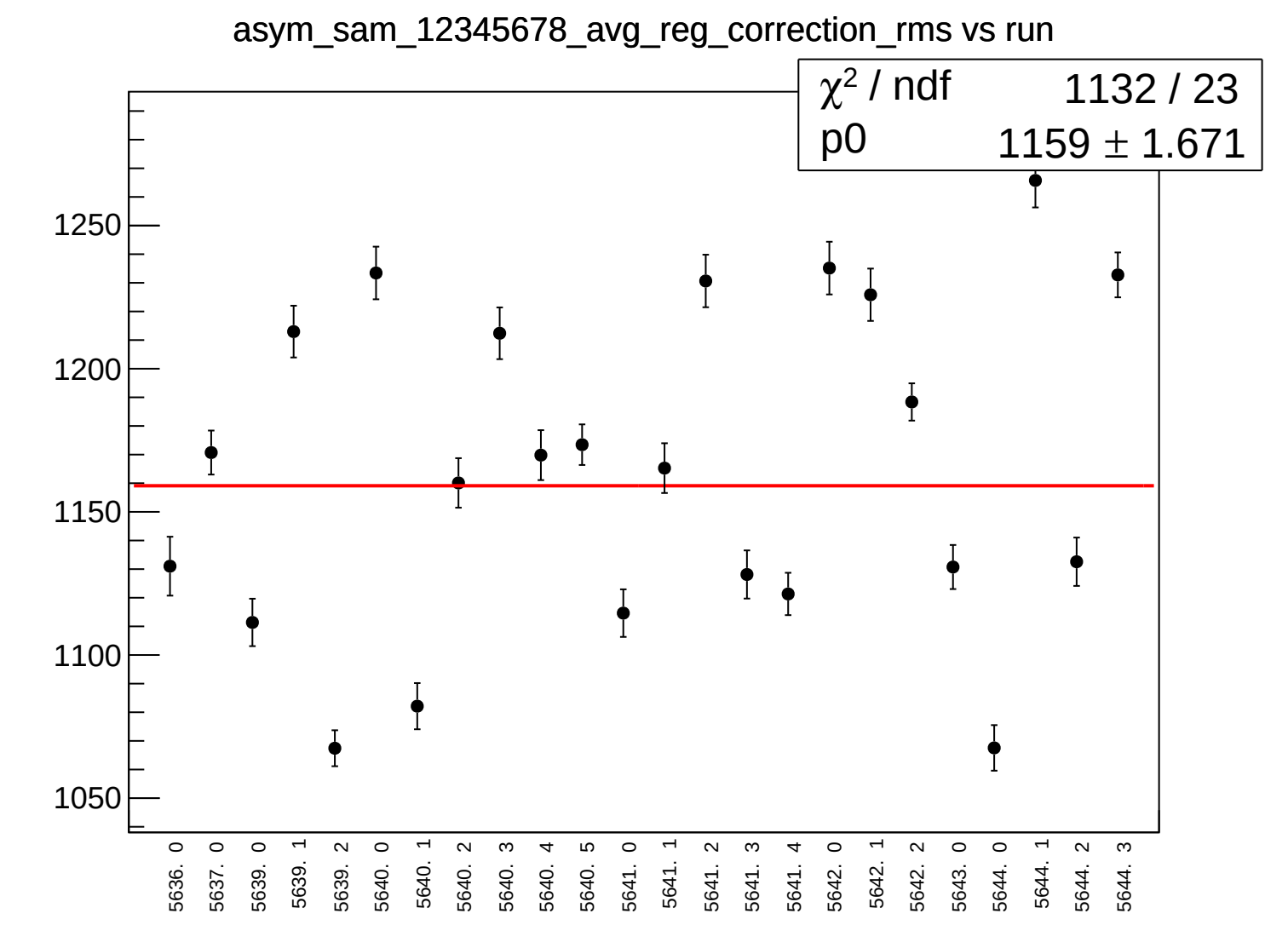

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 15.39 / 23
p0 34.76 ± 162
3000
2000
1000
0
−1000
−2000
−3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 185.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

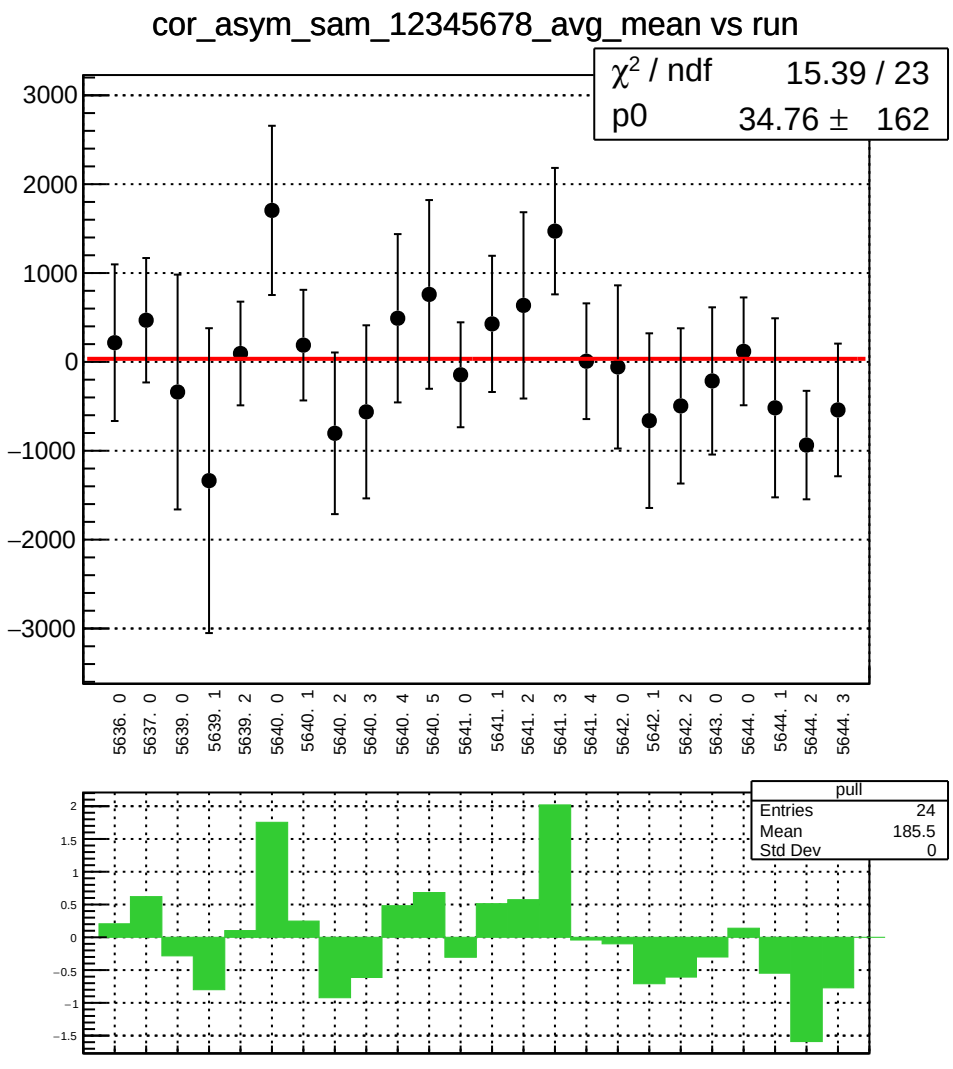

pull1D
Entries 24
Mean −0.01028
Std Dev 0.8008
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

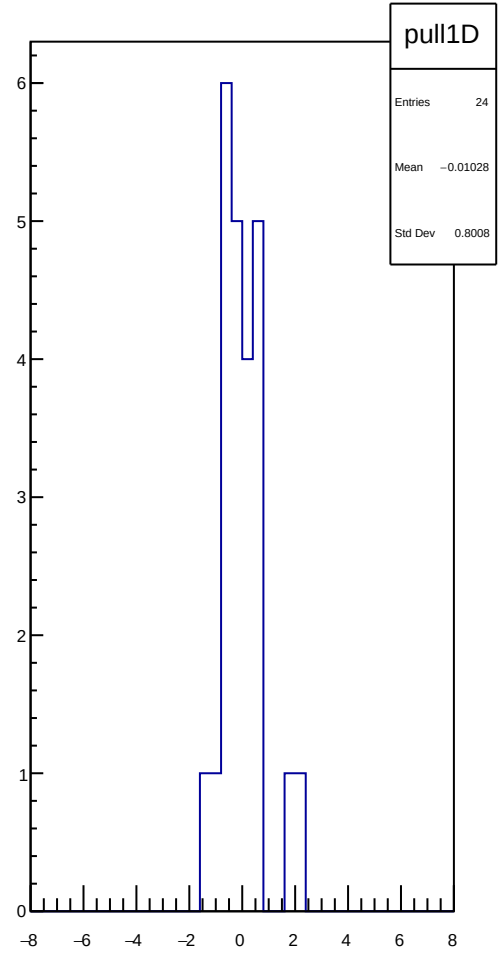

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.855e+04 / 23
p0 77.15 ± 0.1145
160
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

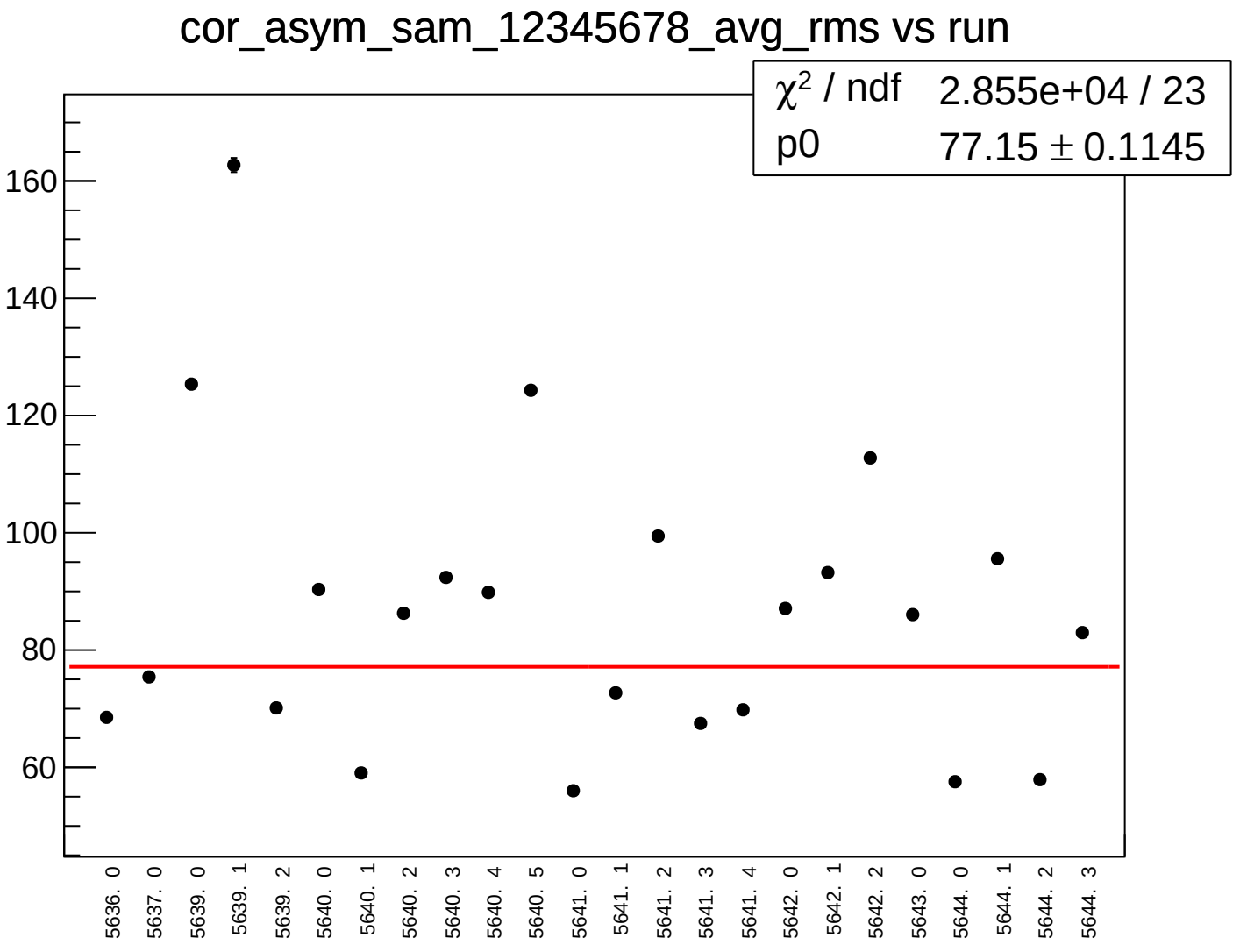

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 24.94 / 23
p0 −1310 ± 2363
40000
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 22.82
Std Dev 23.87
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean 0.02856
Std Dev 1.019
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 1132 / 23
p0 1159 ± 1.671
1250
1200
1150
1100
1050
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 15.39 / 23
p0 34.76 ± 162
3000
2000
1000
0
−1000
−2000
−3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 185.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean −0.01028
Std Dev 0.8008
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.855e+04 / 23
p0 77.15 ± 0.1145
160
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
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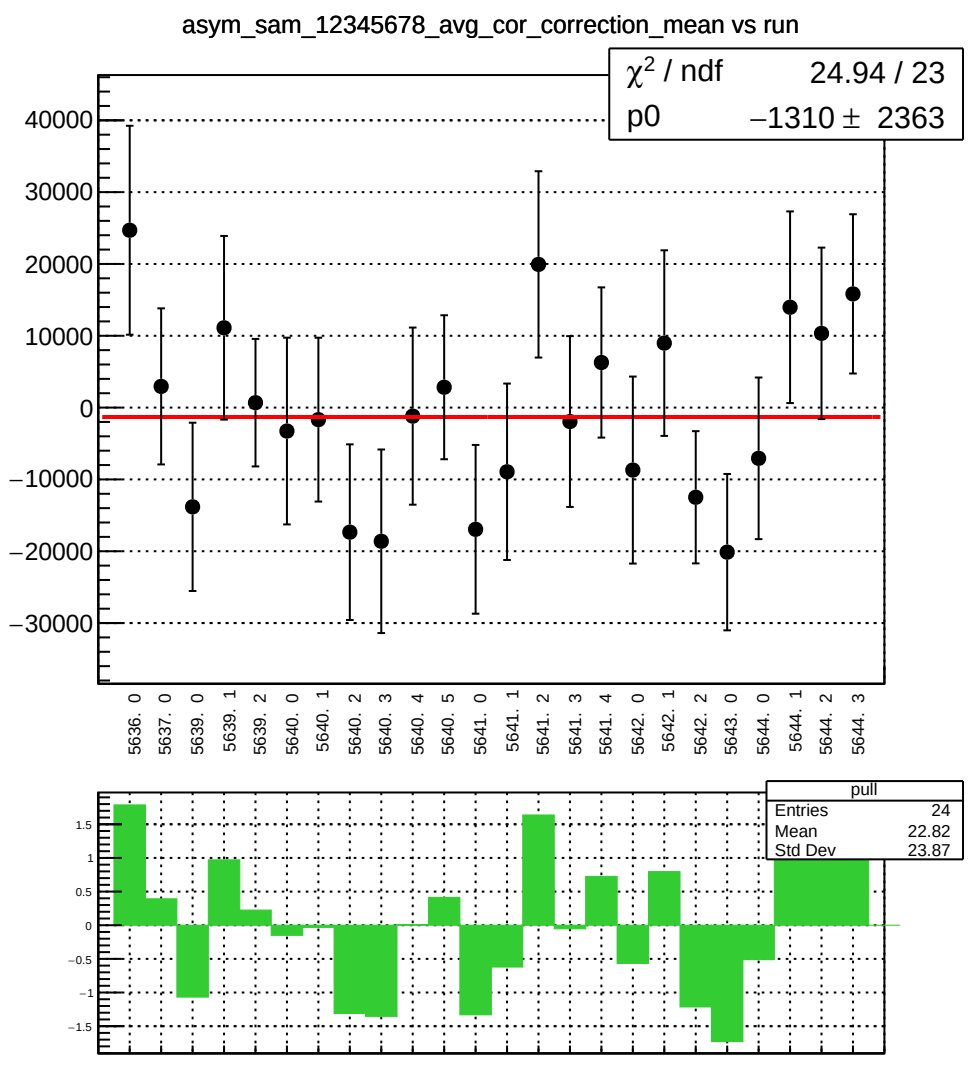
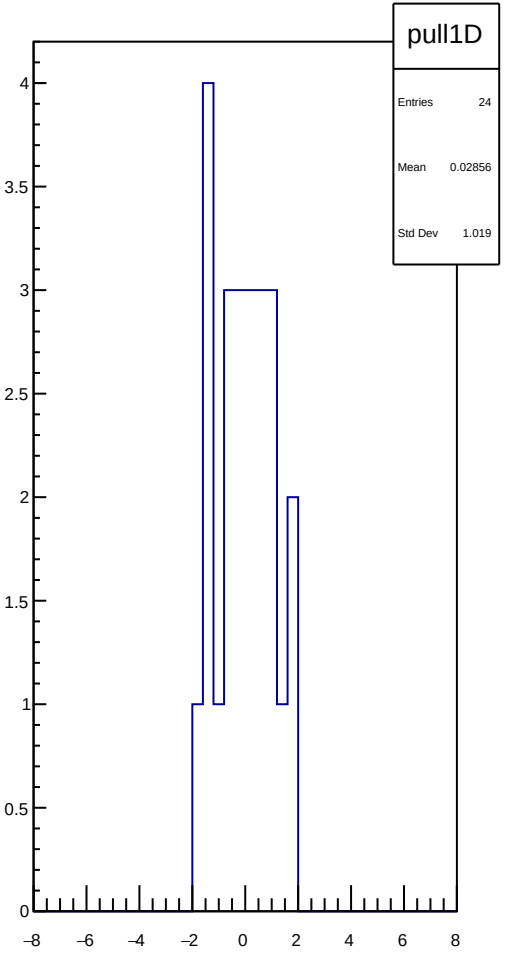
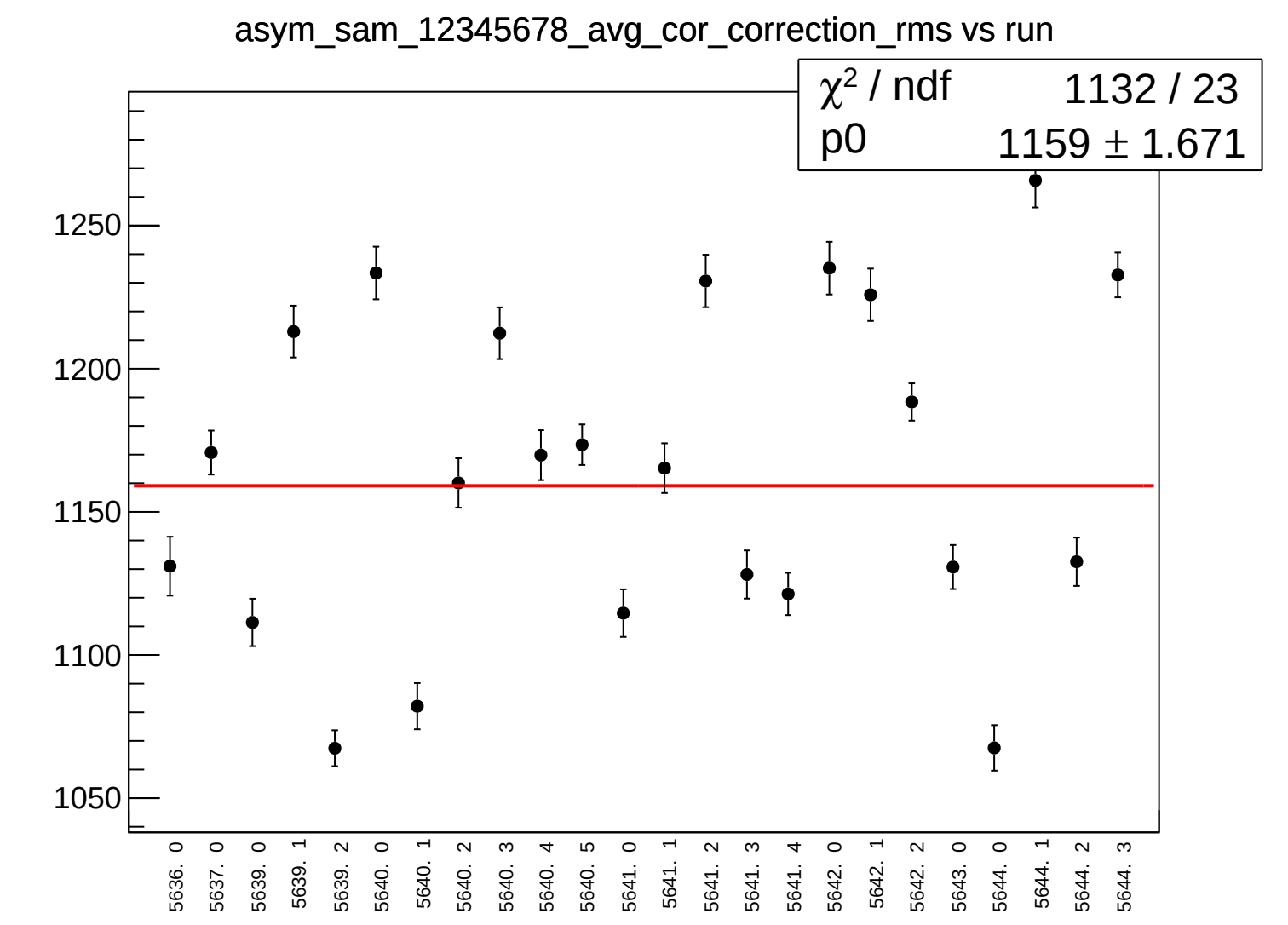
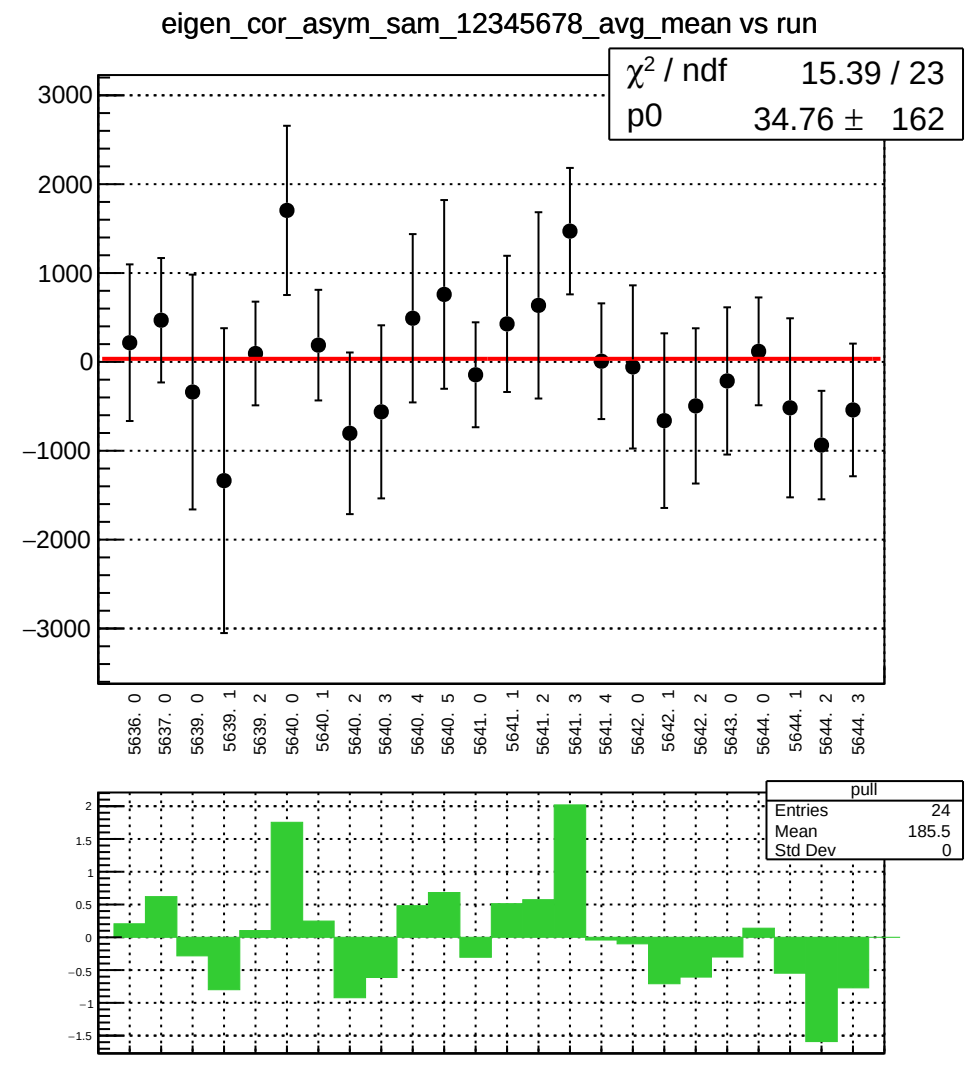
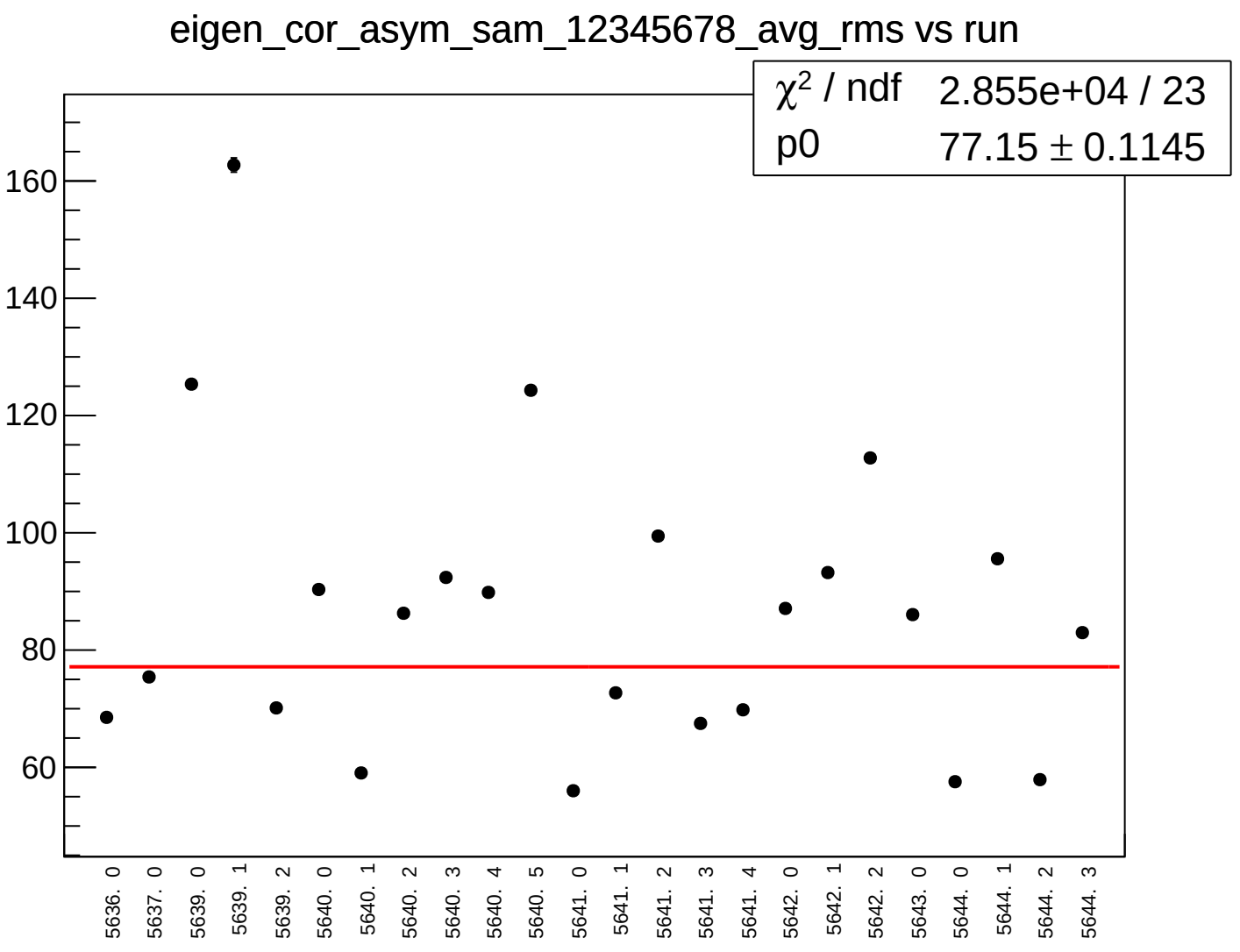
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

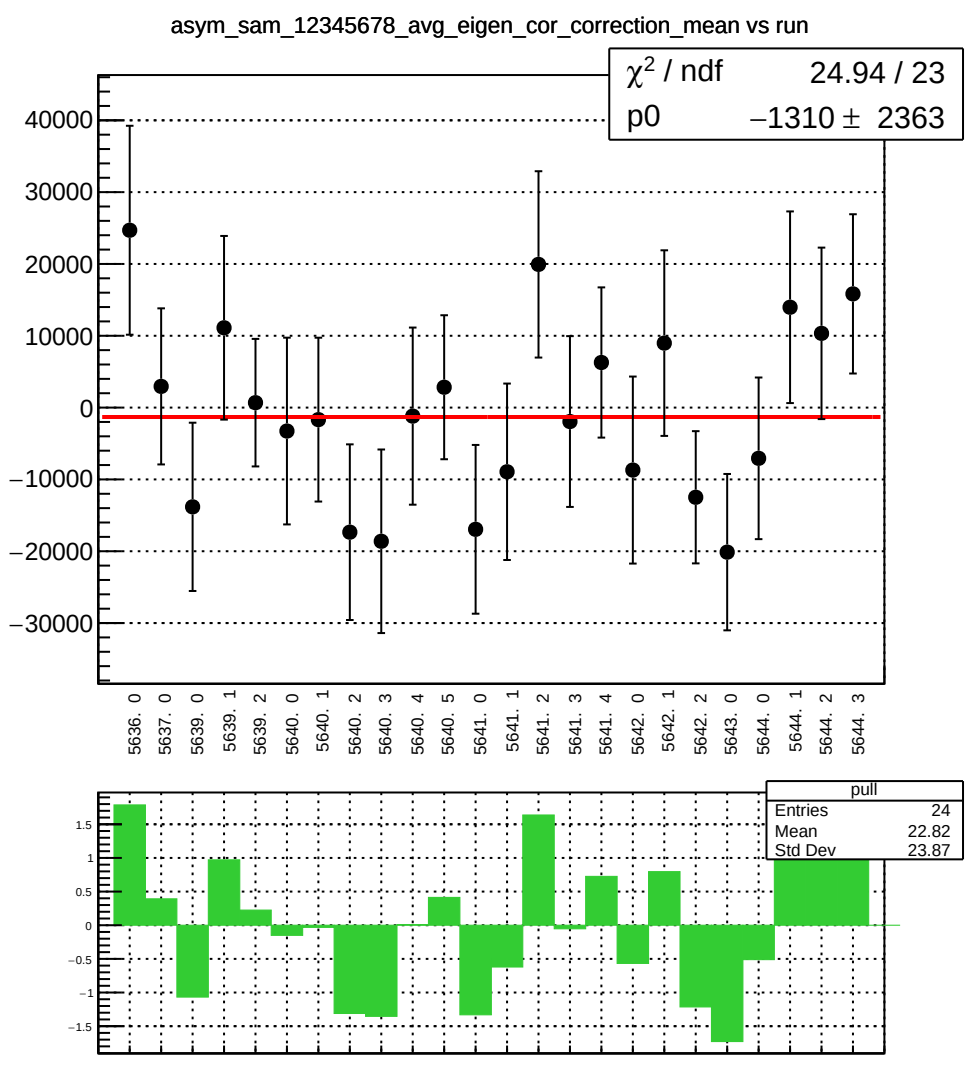

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 24.94 / 23
p0 −1310 ± 2363
40000
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 22.82
Std Dev 23.87
1.5
1
0.5
0
−0.5
−1
−1.5

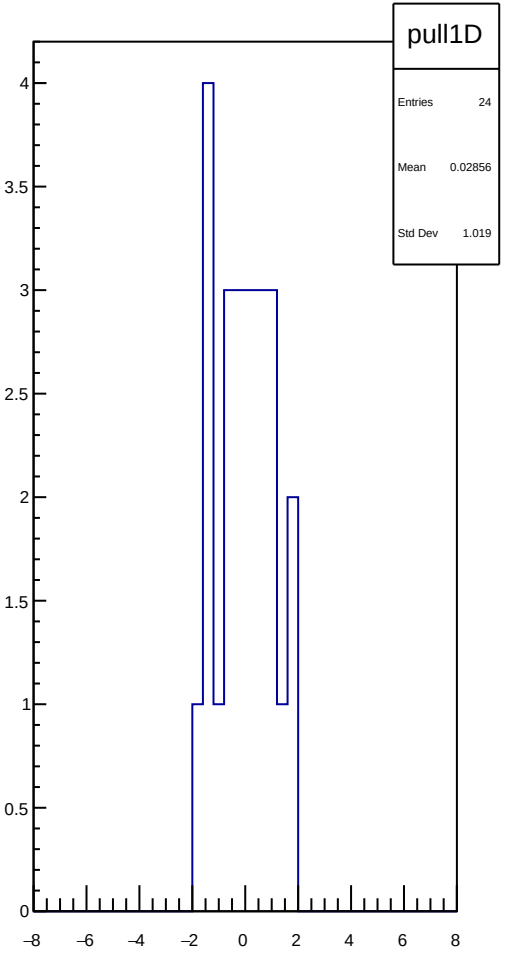

pull1D
Entries 24
Mean 0.02856
Std Dev 1.019
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

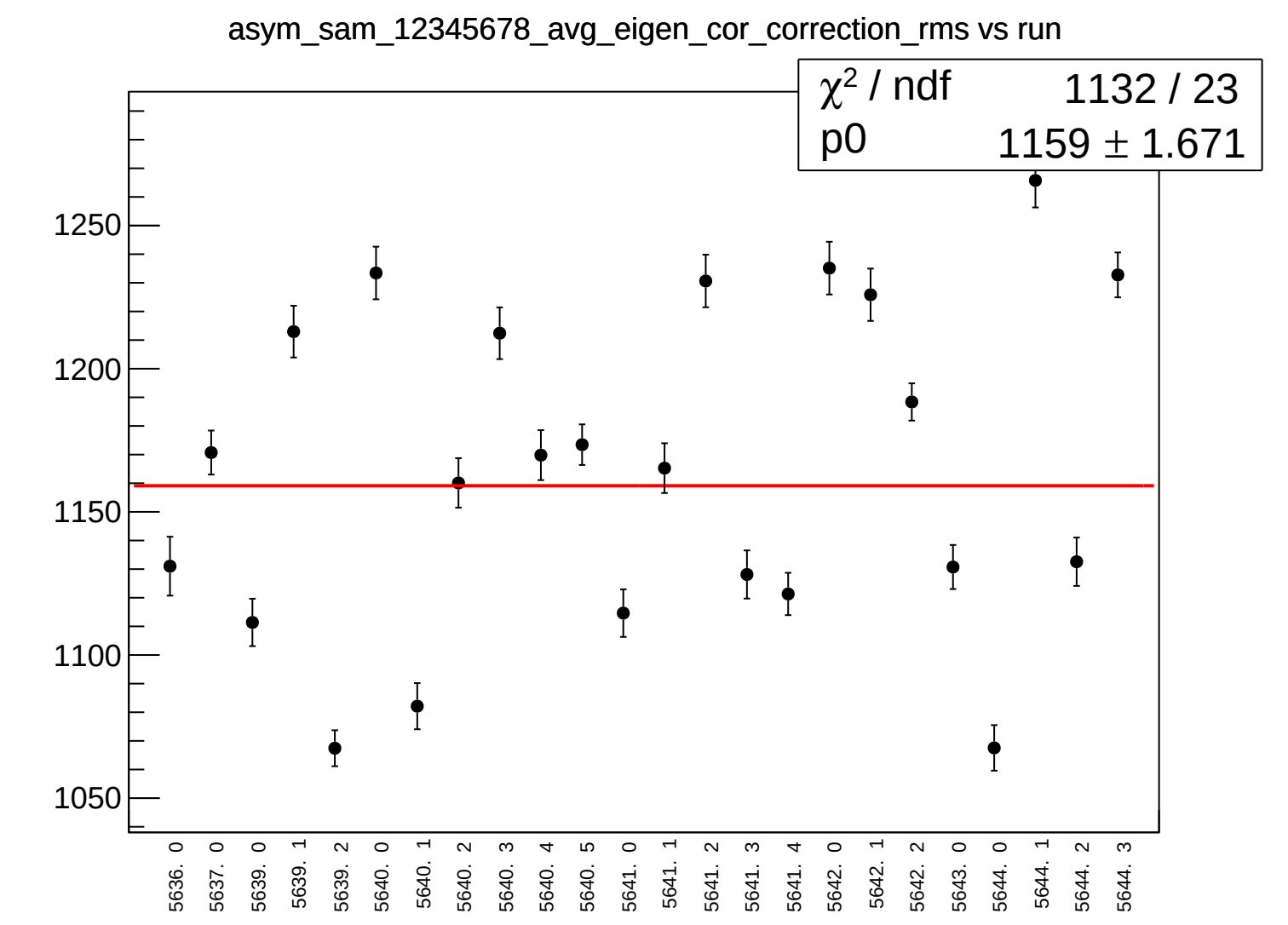

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 1132 / 23
p0 1159 ± 1.671
1250
1200
1150
1100
1050
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

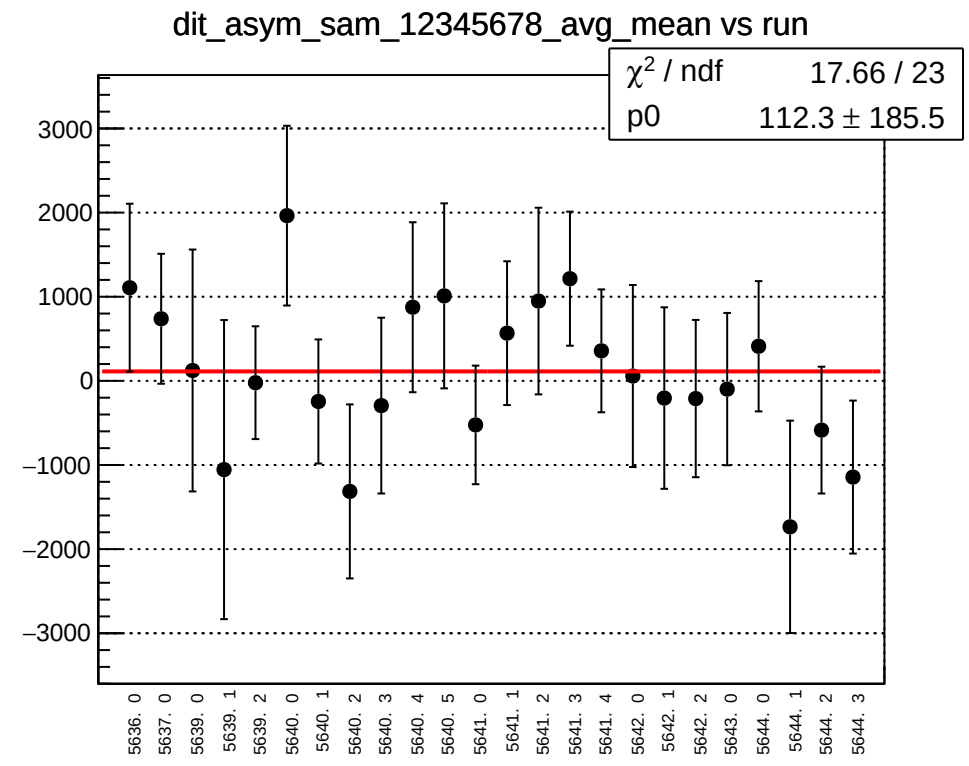

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 15.39 / 23
p0 34.76 ± 162
3000
2000
1000
0
−1000
−2000
−3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 185.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.01028
Std Dev 0.8008
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.855e+04 / 23
p0 77.15 ± 0.1145
160
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 24.94 / 23
p0 −1310 ± 2363
40000
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 22.82
Std Dev 23.87
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean 0.02856
Std Dev 1.019
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 1132 / 23
p0 1159 ± 1.671
1250
1200
1150
1100
1050
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 17.66 / 23
p0 112.3 ± 185.5
3000
2000
1000
0
−1000
−2000
−3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
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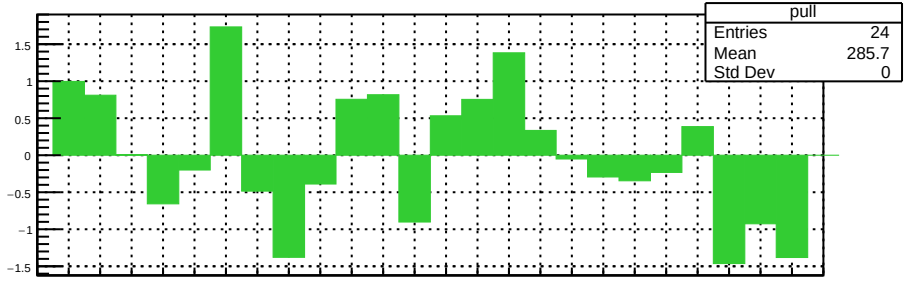
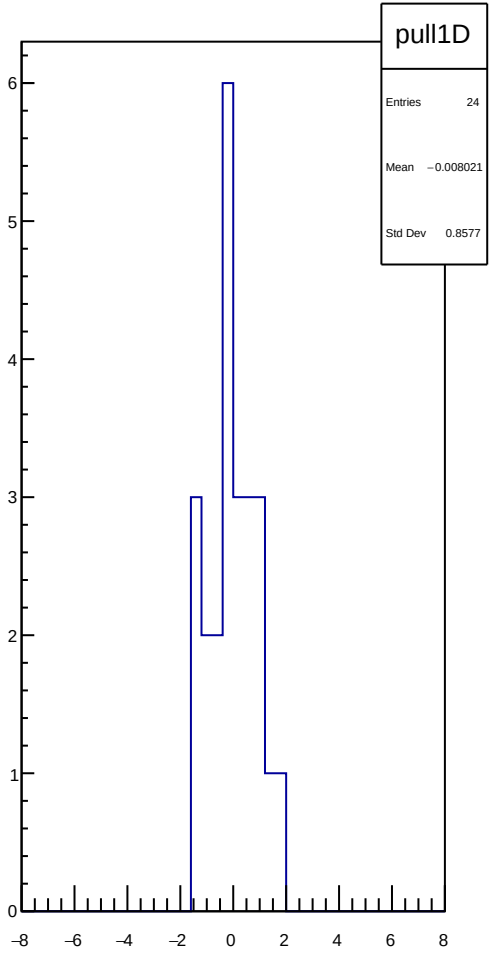
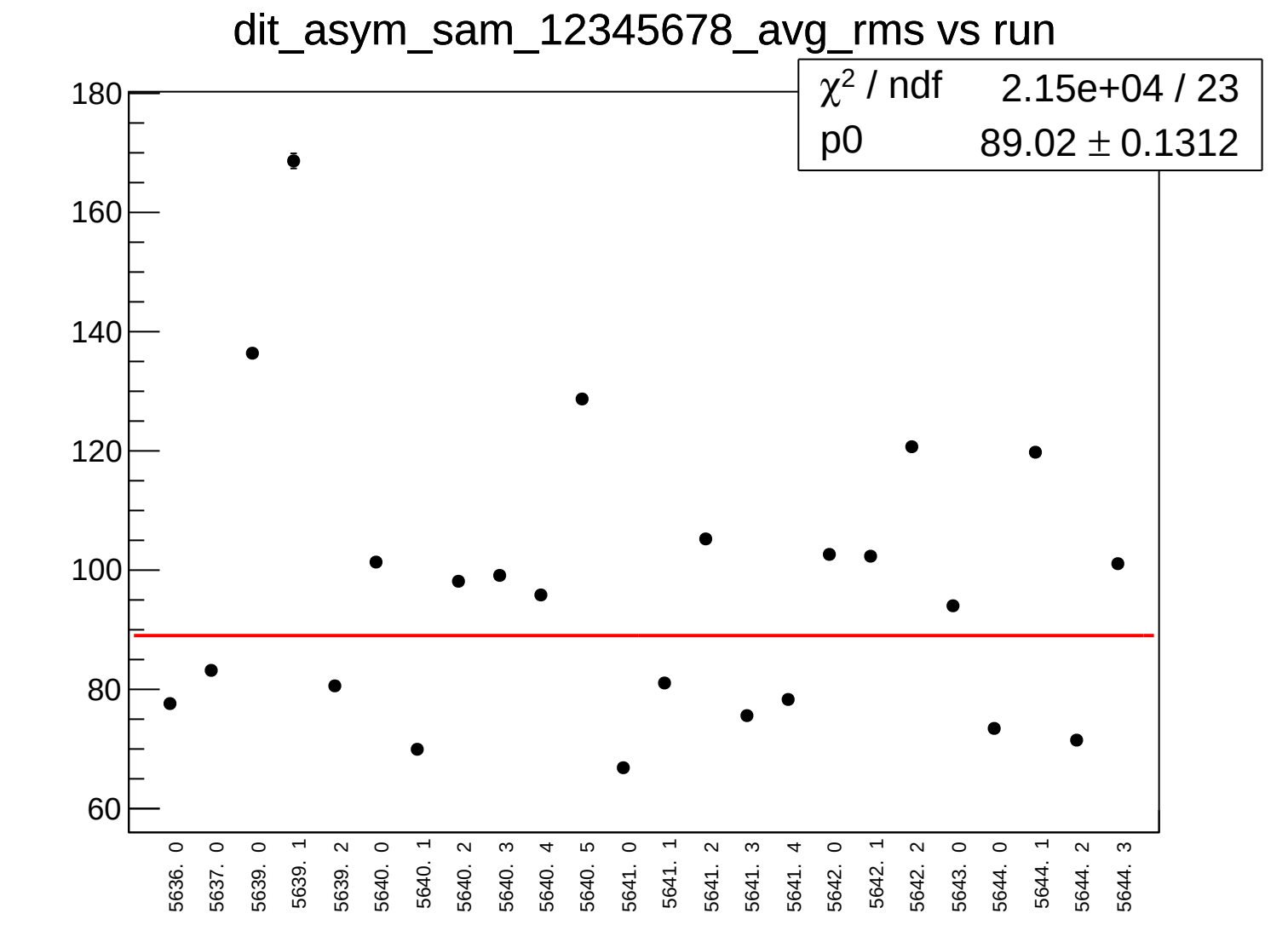
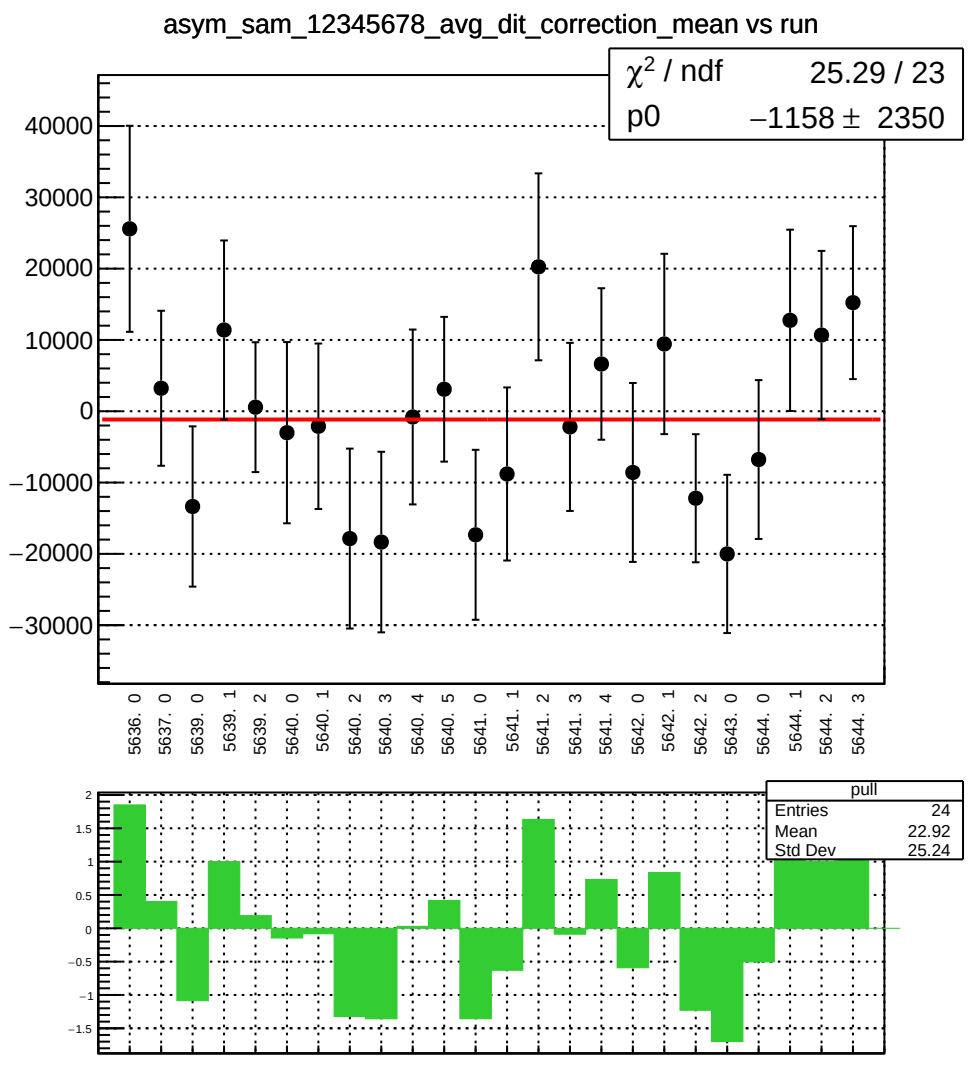
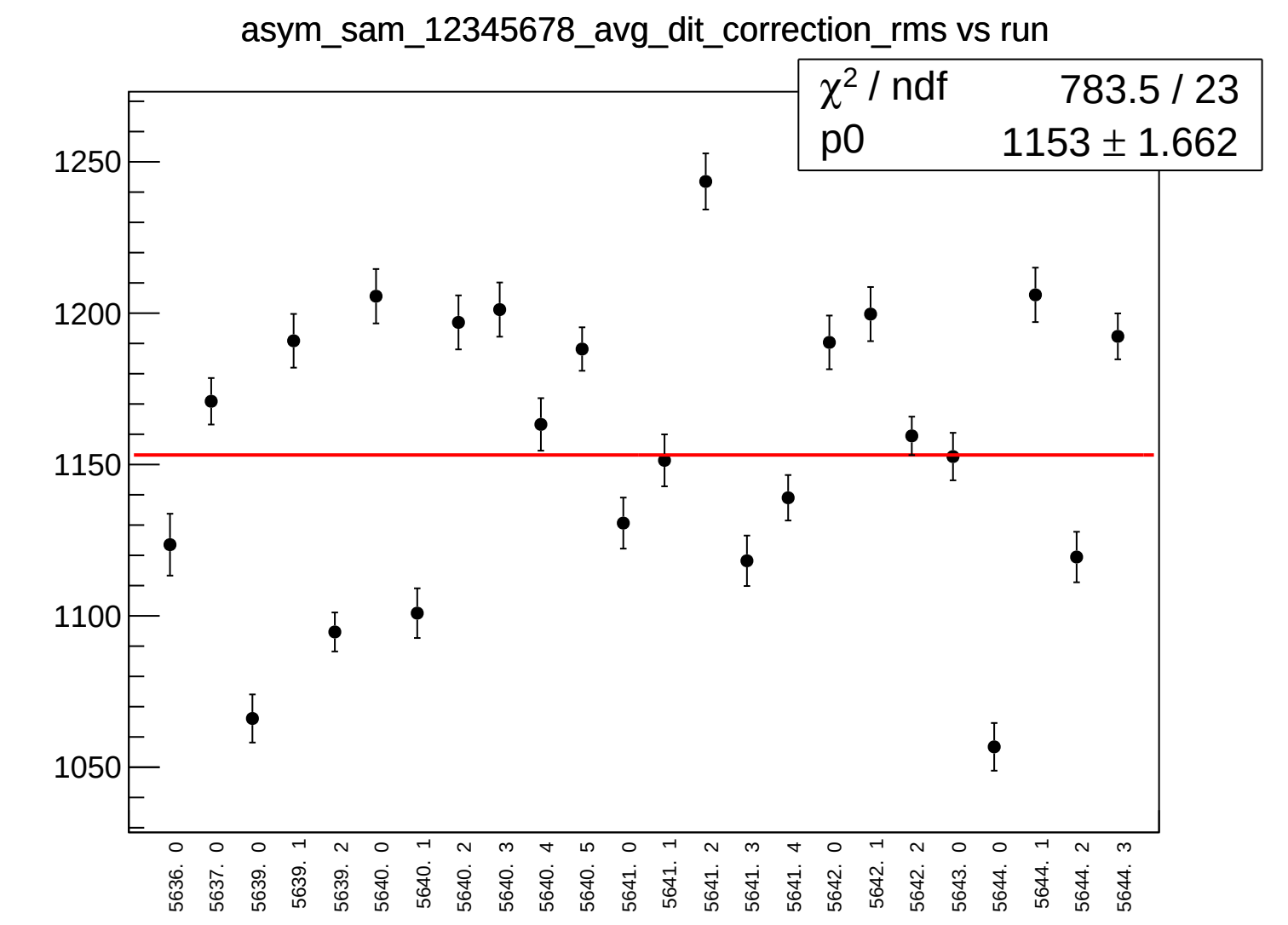
5644. 2
5644. 3


pull
Entries 24
Mean 285.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 24
Mean −0.008021
Std Dev 0.8577
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.15e+04 / 23
p0 89.02 ± 0.1312
180
160
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 25.29 / 23
p0 −1158 ± 2350
40000
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 22.92
Std Dev 25.24
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.02622
Std Dev 1.026
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 783.5 / 23
p0 1153 ± 1.662
1250
1200
1150
1100
1050
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
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5642. 0
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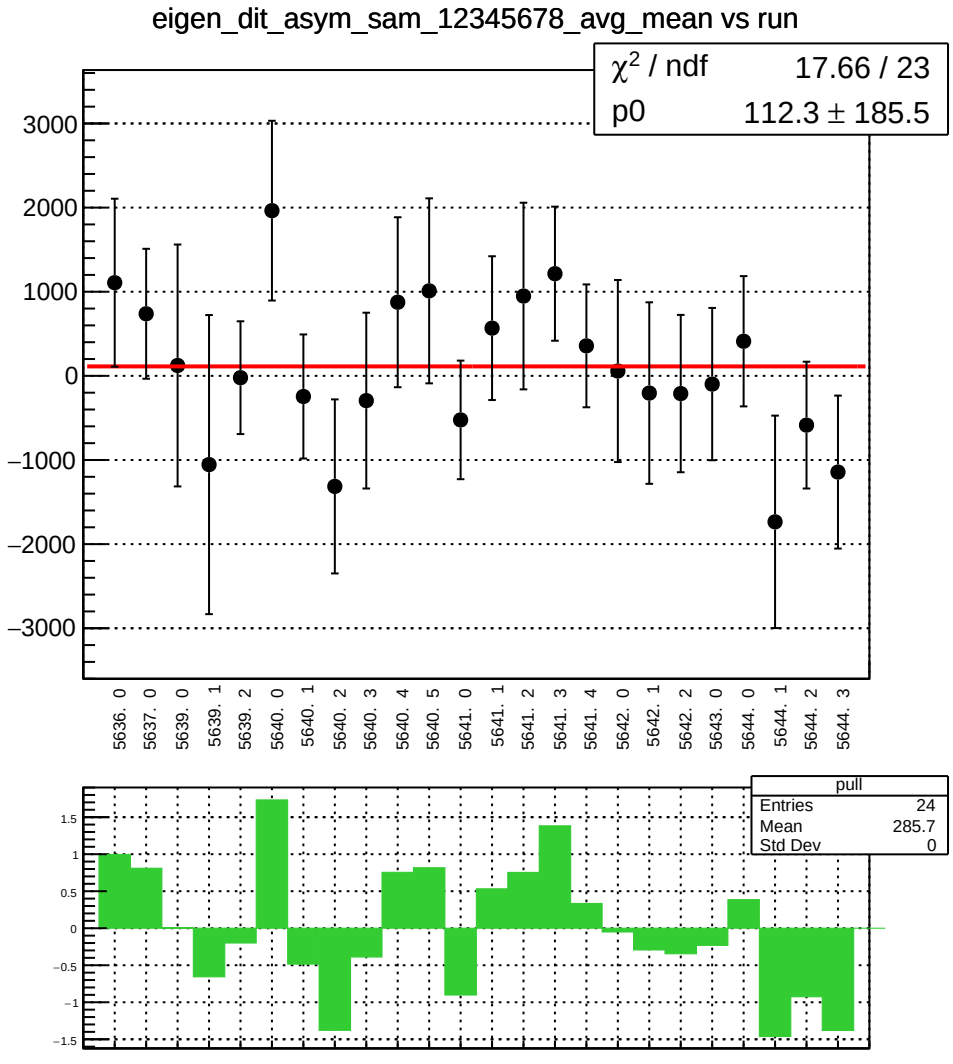
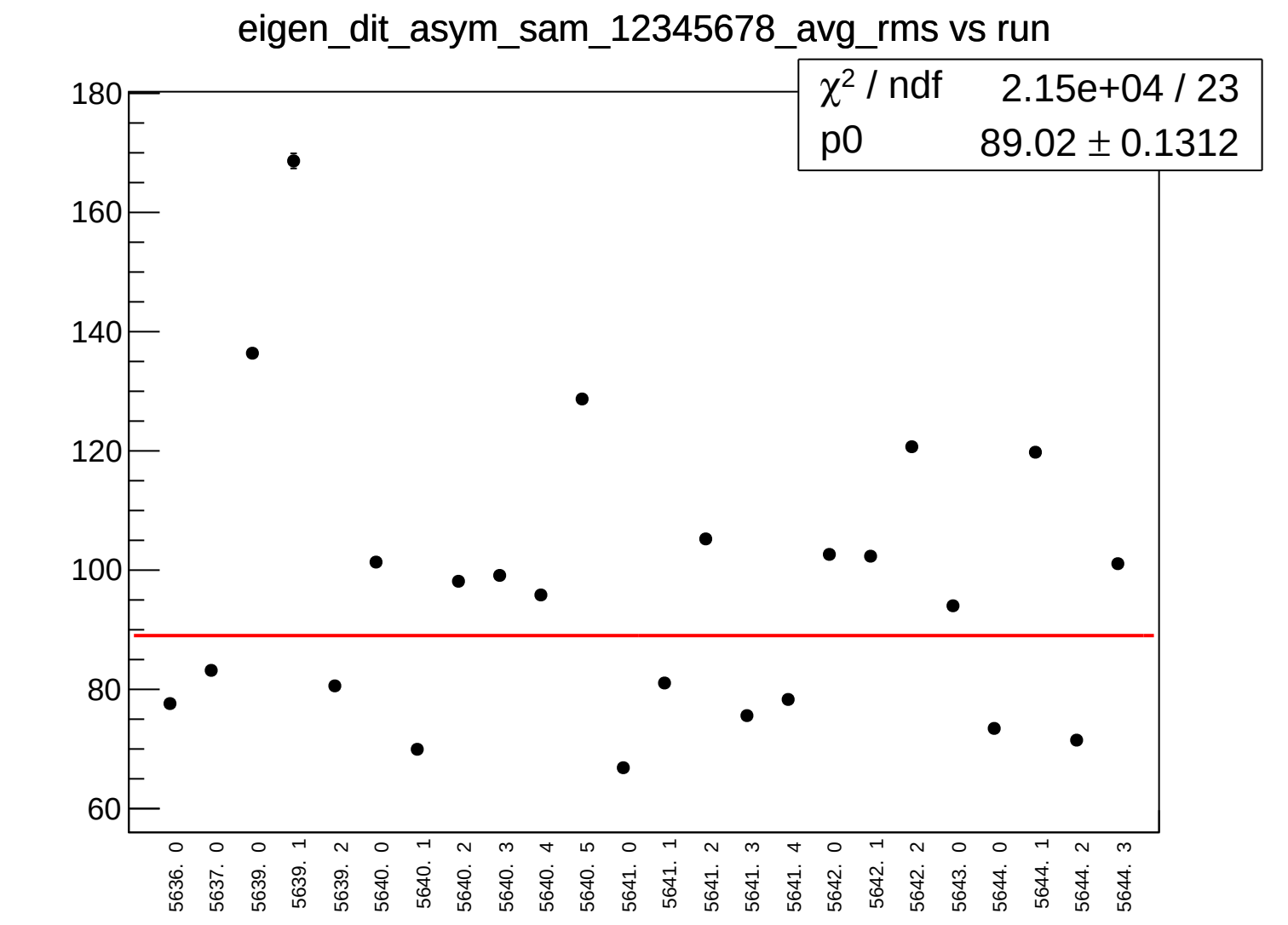
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3


eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 17.66 / 23
p0 112.3 ± 185.5
3000
2000
1000
0
−1000
−2000
−3000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 285.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.008021
Std Dev 0.8577
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.15e+04 / 23
p0 89.02 ± 0.1312
180
160
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
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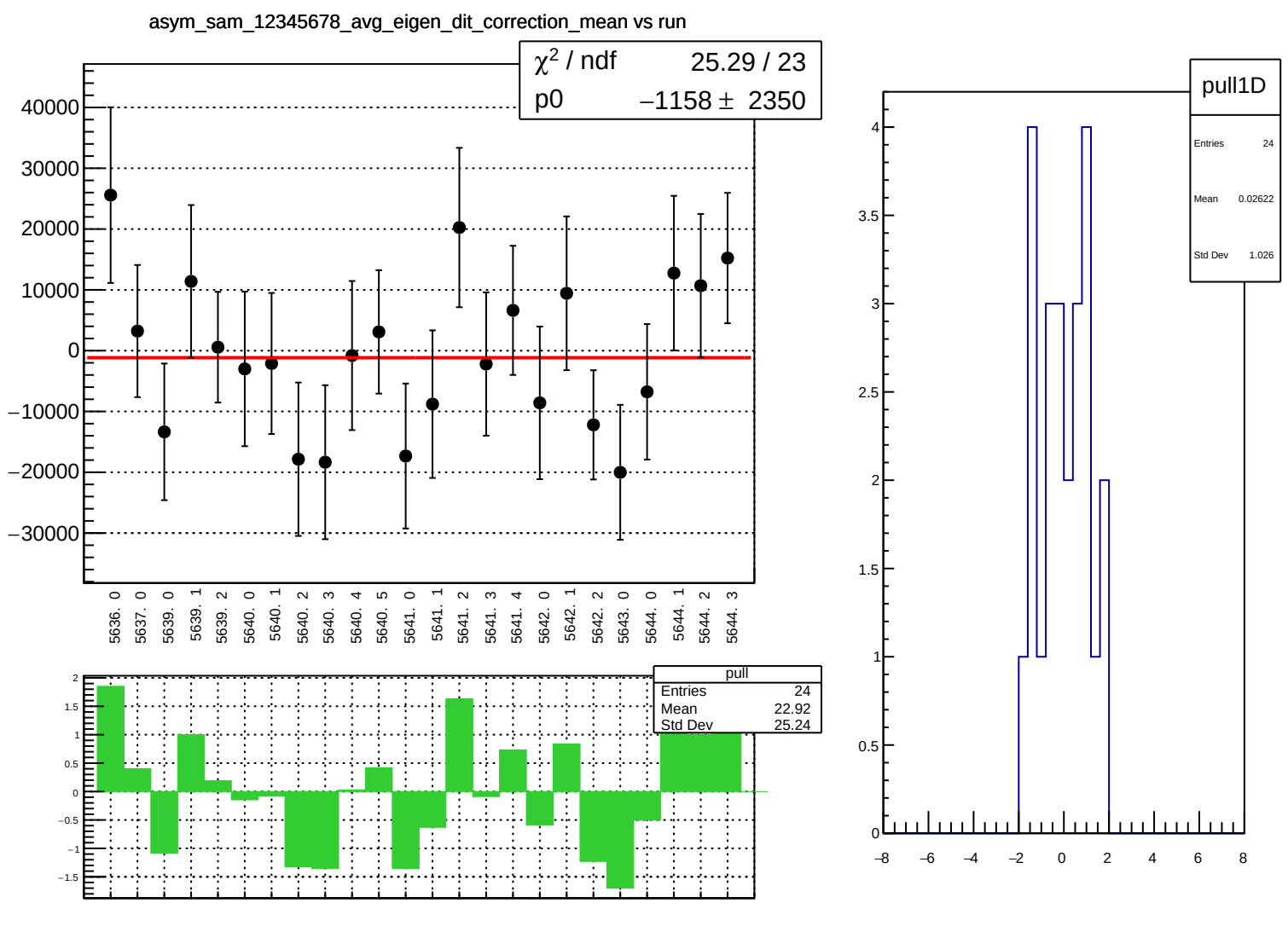
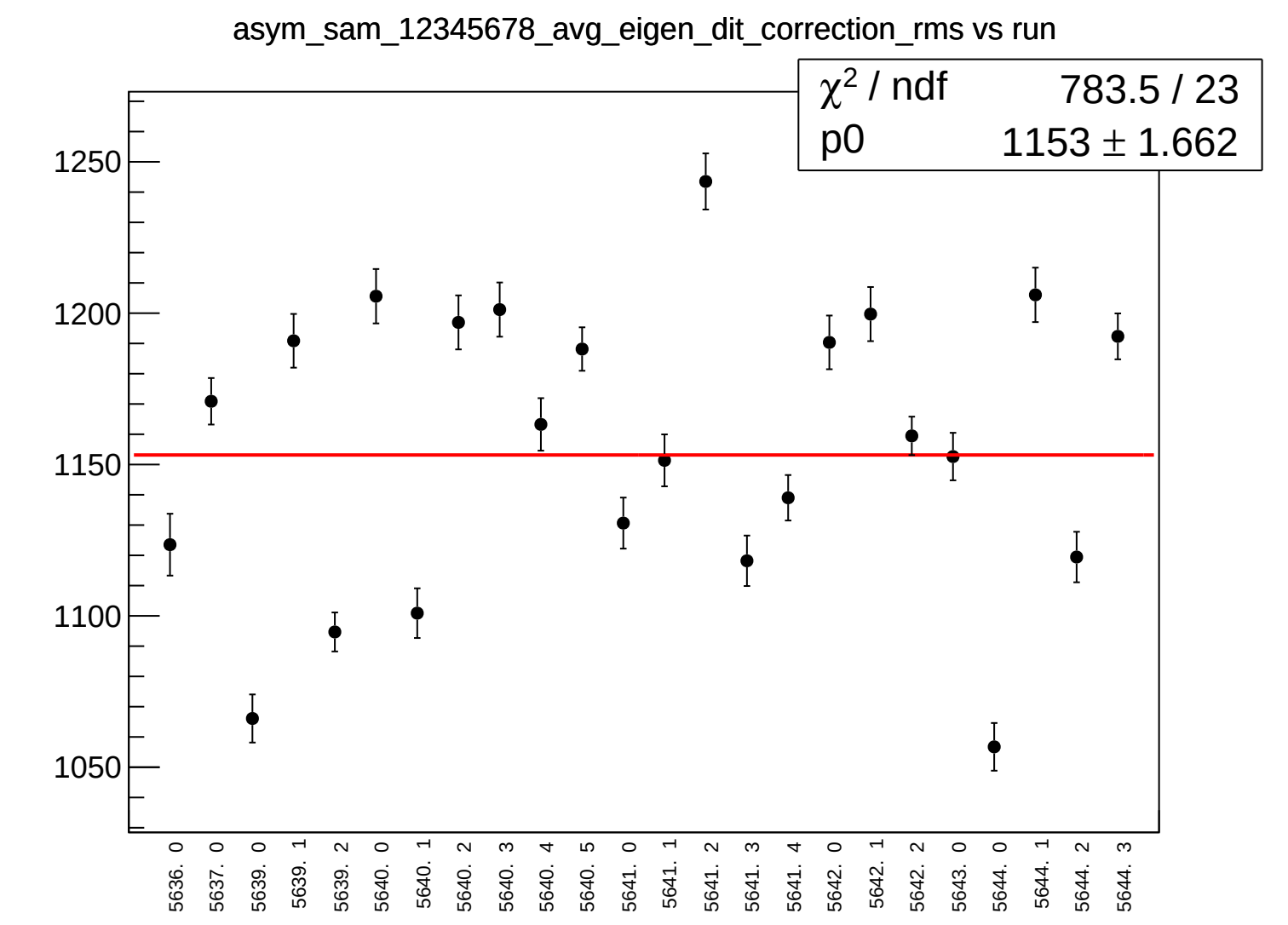
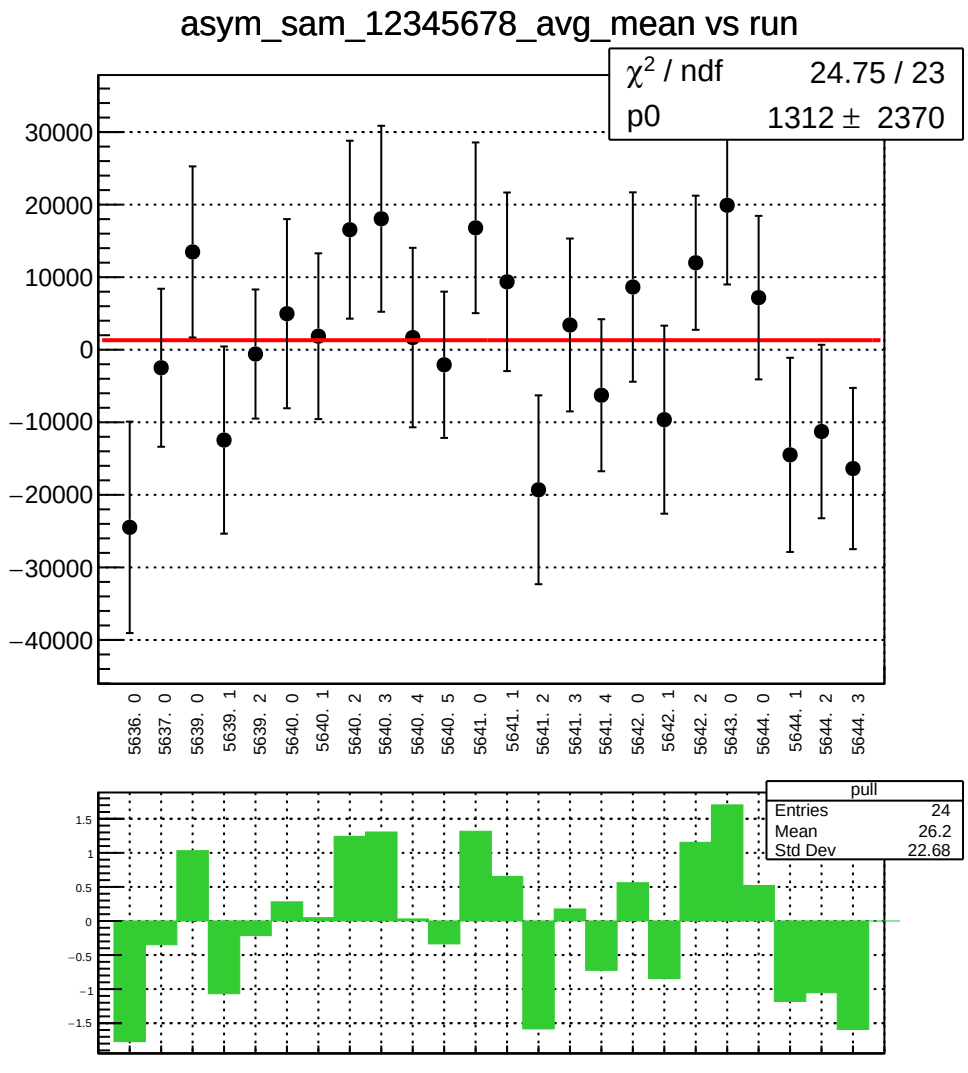
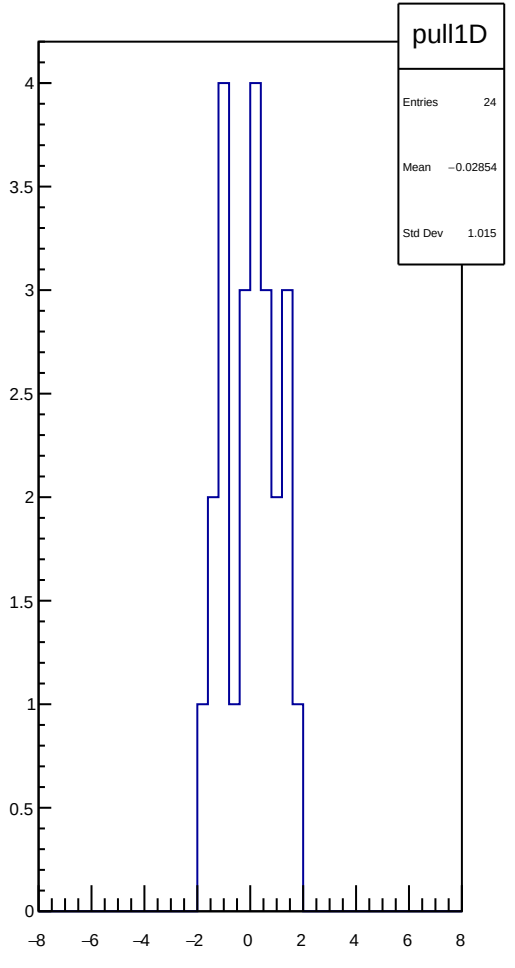
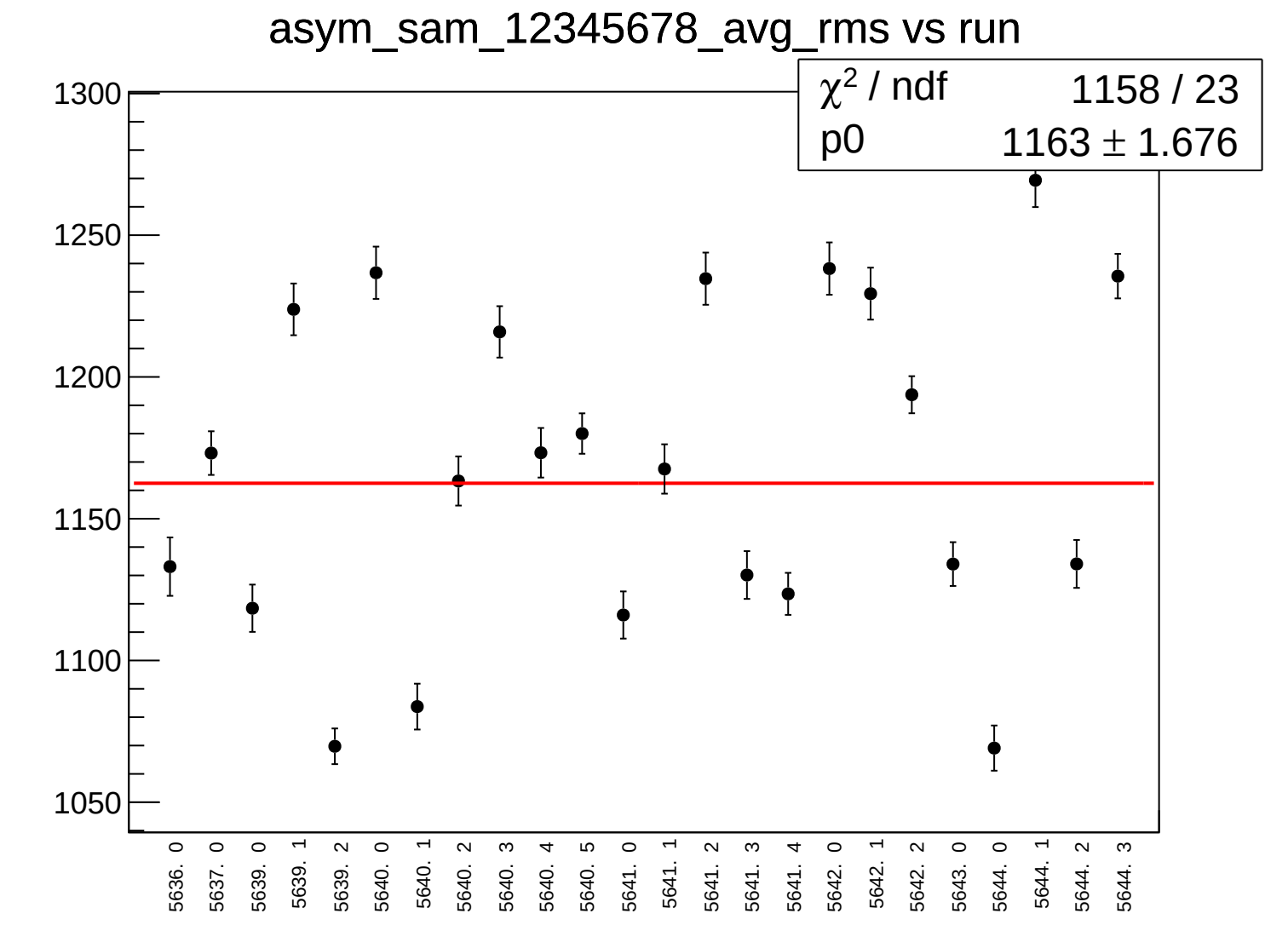
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

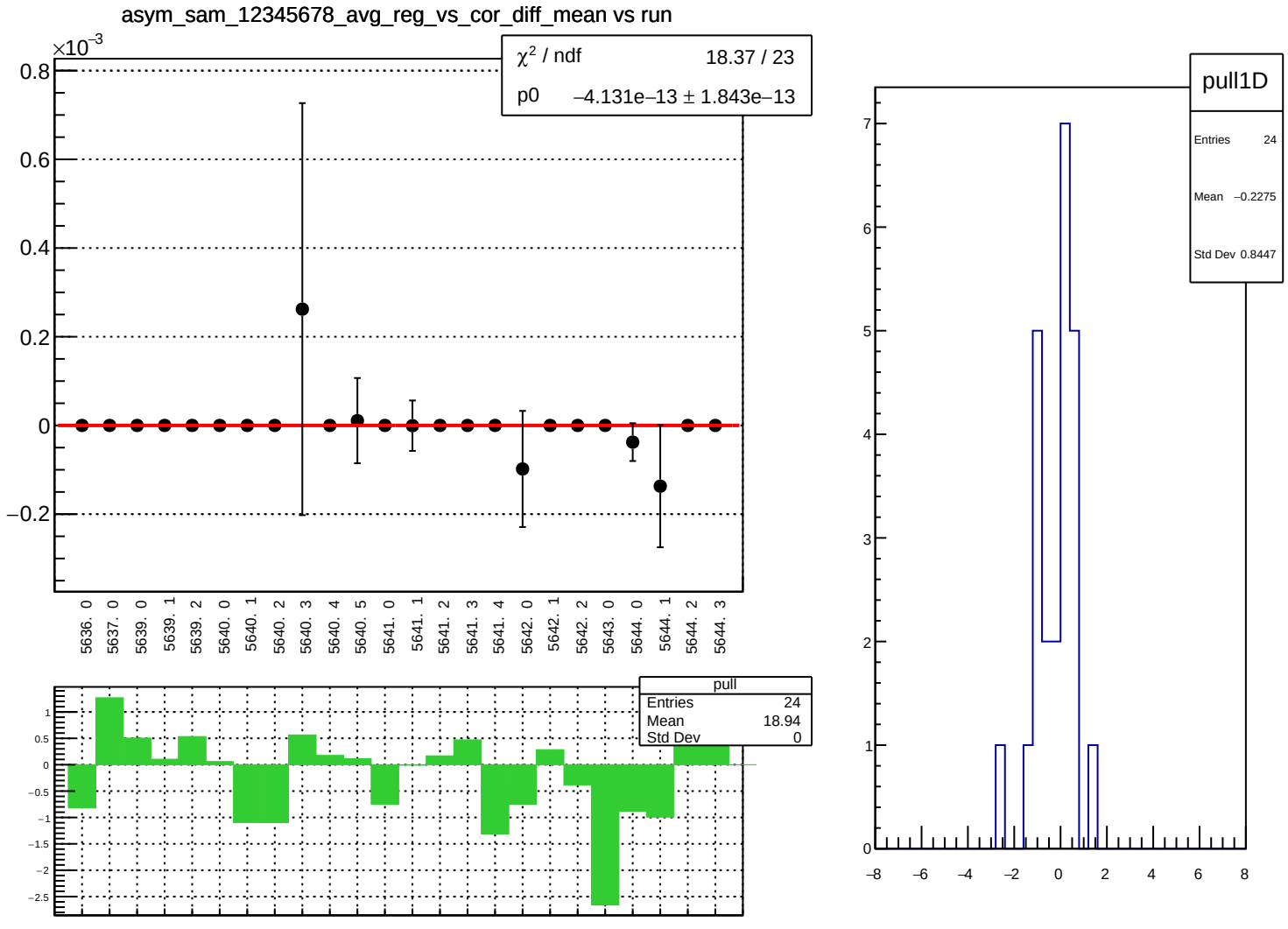

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 25.29 / 23
p0 −1158 ± 2350
40000
30000
20000
10000
0
−10000
−20000
−30000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 22.92
Std Dev 25.24
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.02622
Std Dev 1.026
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

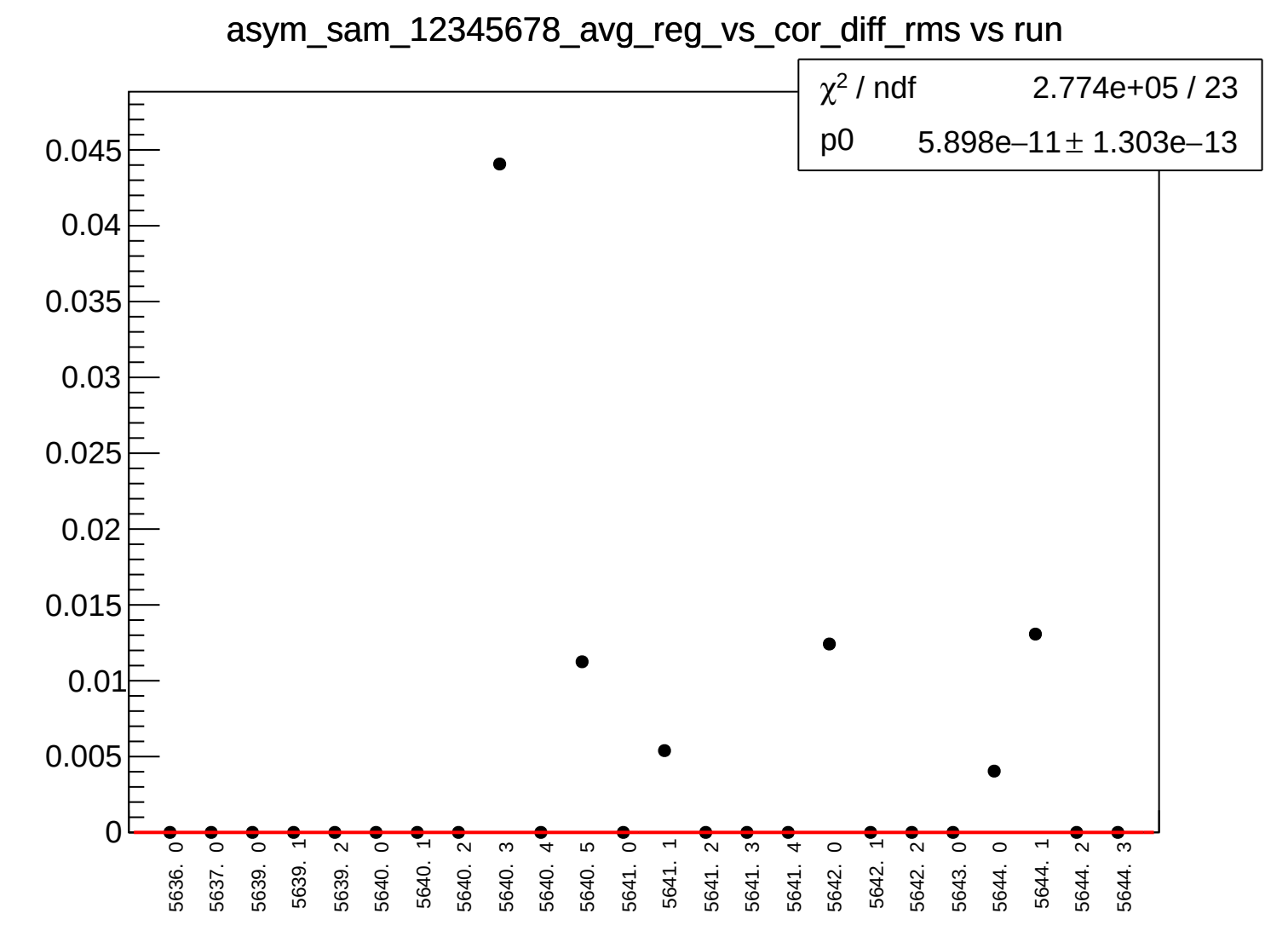

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 783.5 / 23
p0 1153 ± 1.662
1250
1200
1150
1100
1050
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

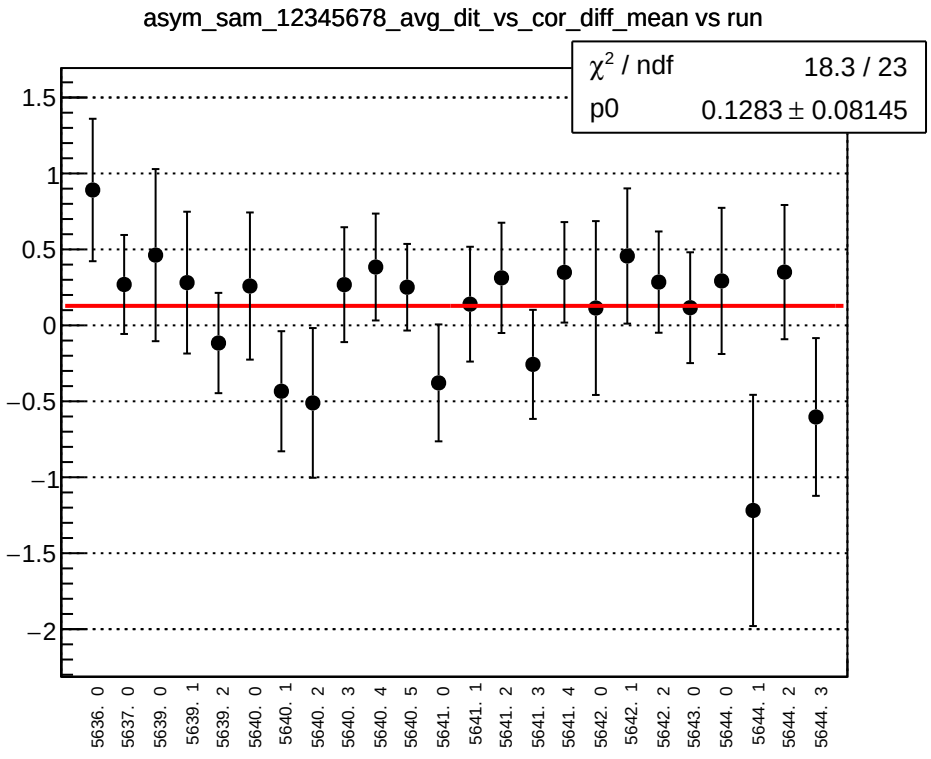

asym_sam_12345678_avg_mean vs run
χ² / ndf 24.75 / 23
p0 1312 ± 2370
30000
20000
10000
0
−10000
−20000
−30000
−40000
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 26.2
Std Dev 22.68
1.5
1
0.5
0
−0.5
−1
−1.5

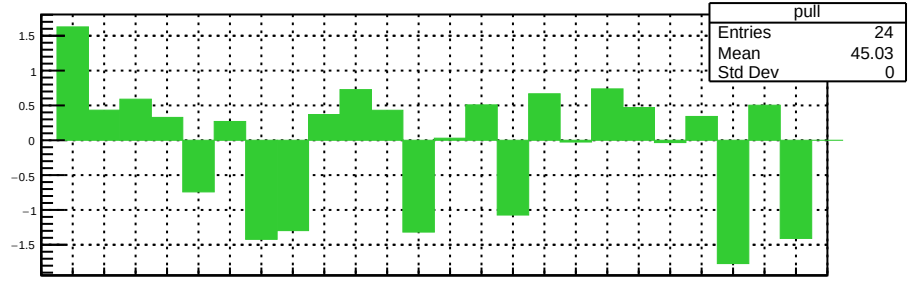

pull1D
Entries 24
Mean −0.02854
Std Dev 1.015
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

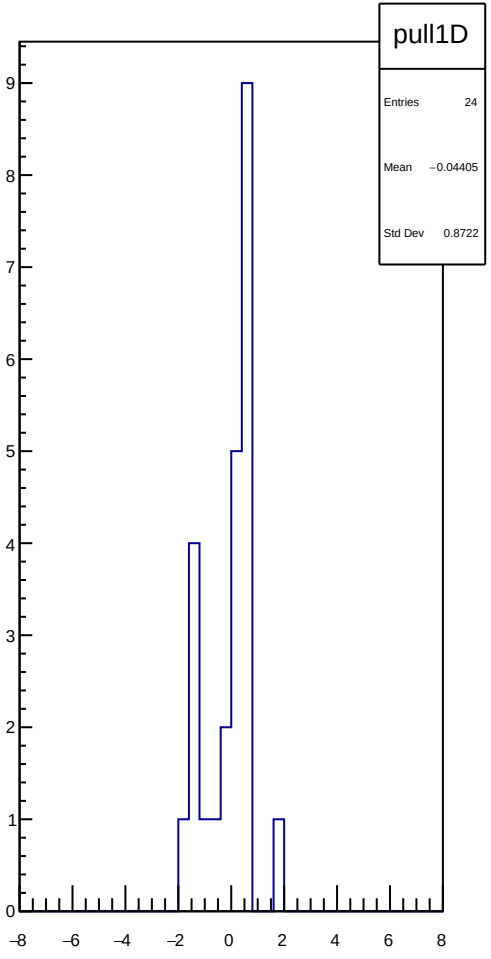

asym_sam_12345678_avg_rms vs run
χ² / ndf 1158 / 23
p0 1163 ± 1.676
1300
1250
1200
1150
1100
1050
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

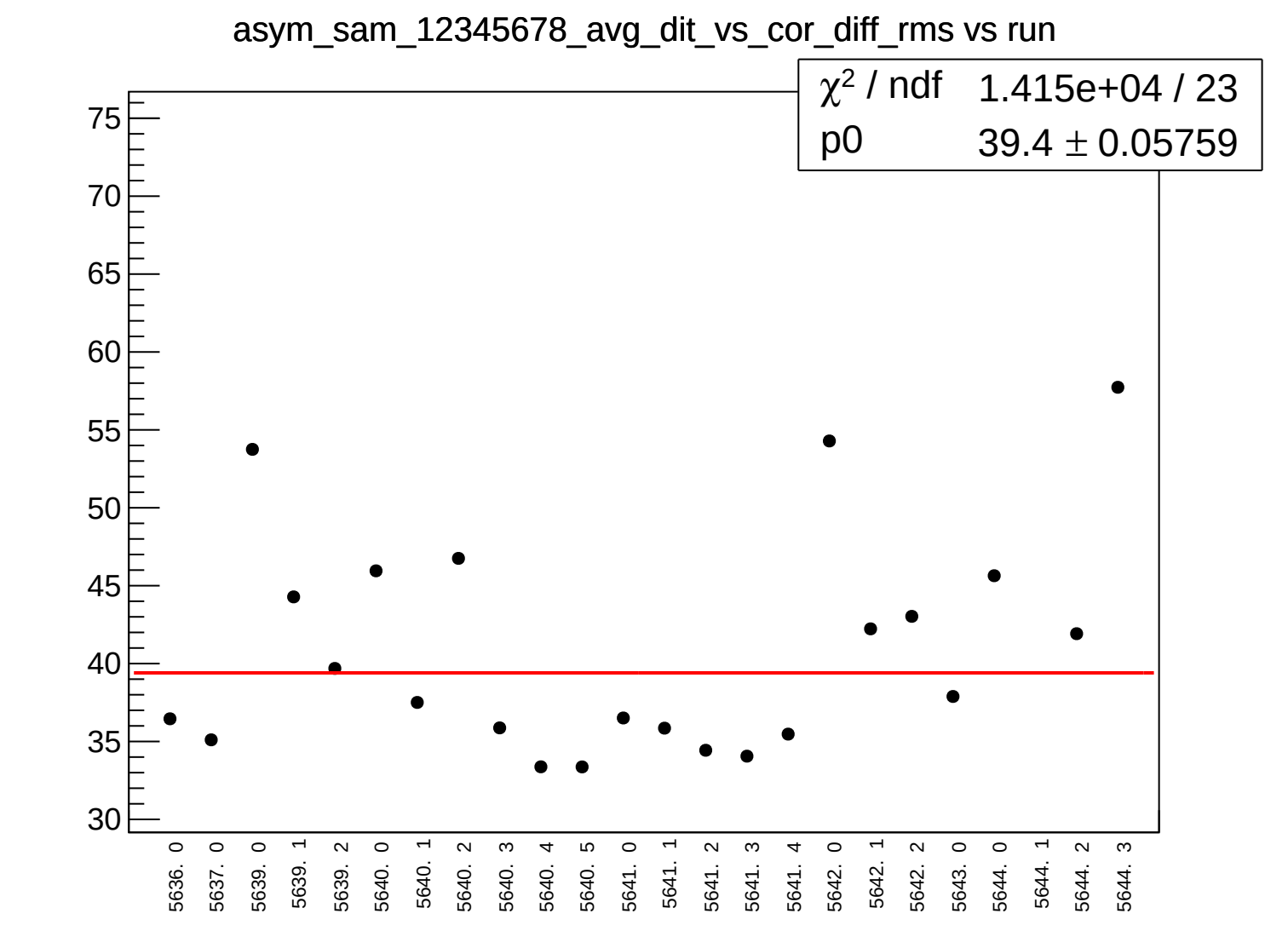

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 18.37 / 23
p0 −4.131e−13 ± 1.843e−13
0.8
0.6
0.4
0.2
0
−0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 18.94
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean −0.2275
Std Dev 0.8447
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

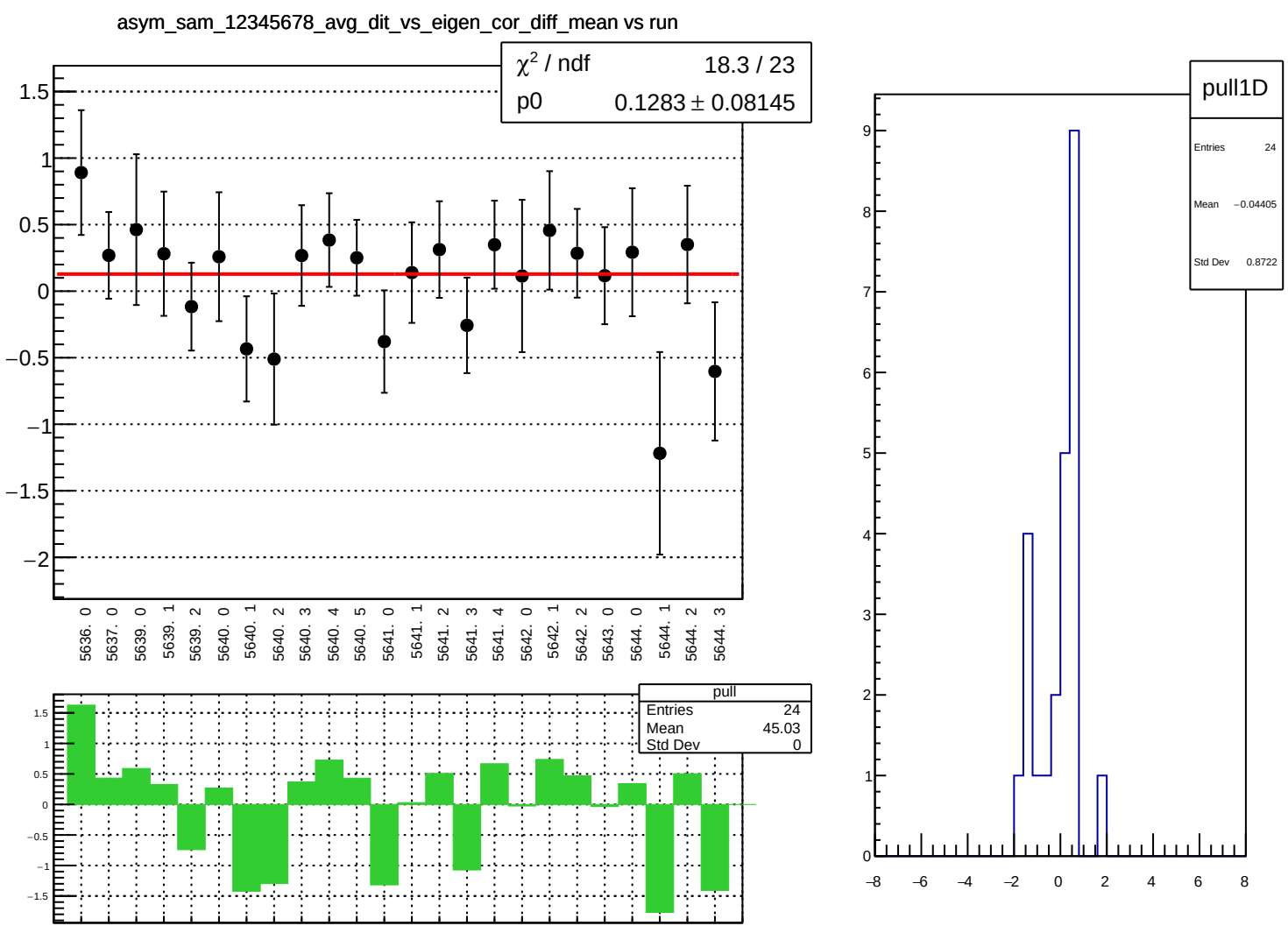

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.774e+05 / 23
p0 5.898e−11 ± 1.303e−13
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

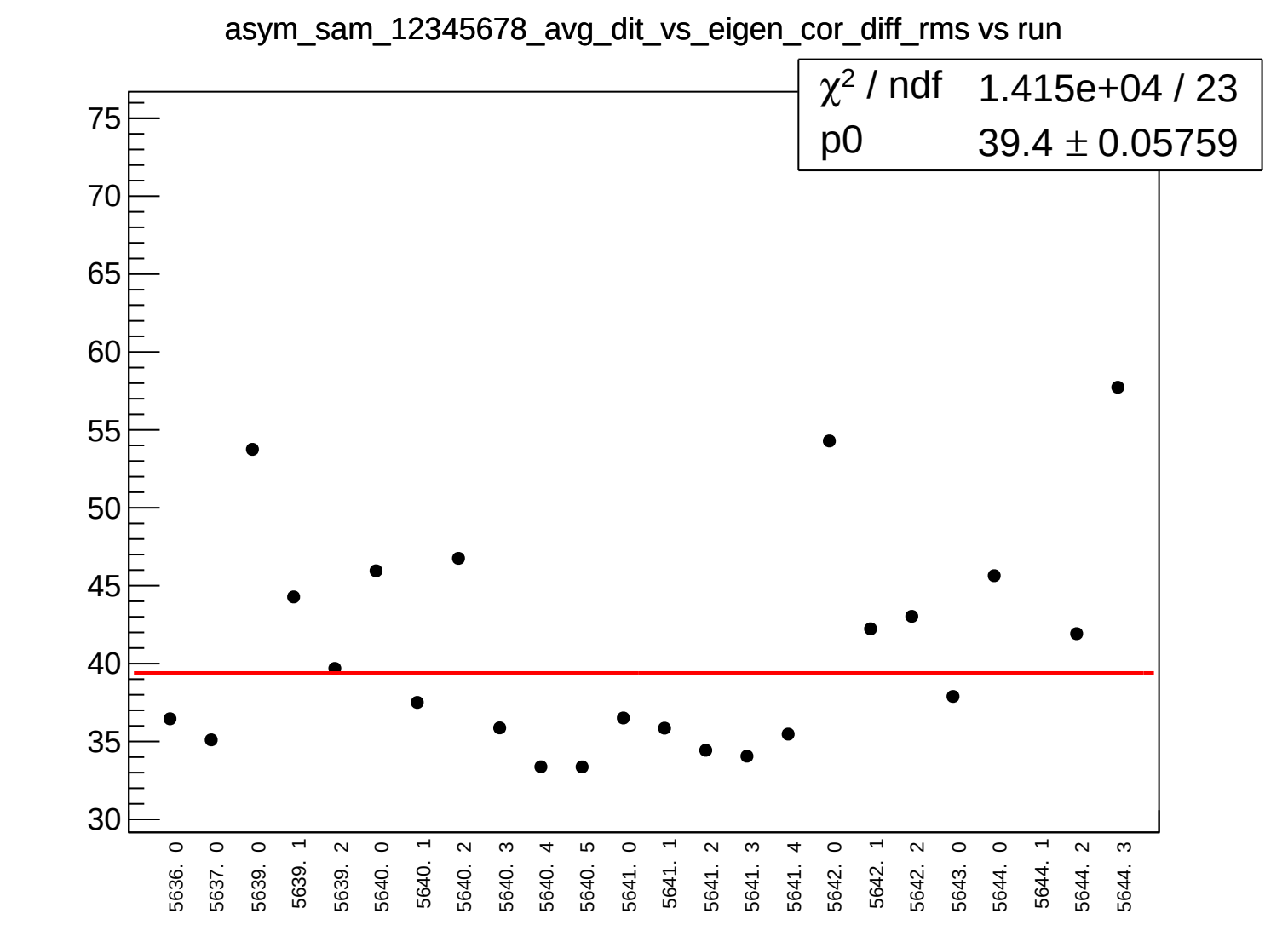

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 18.3 / 23
p0 0.1283 ± 0.08145
1.5
1
0.5
0
−0.5
−1
−1.5
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

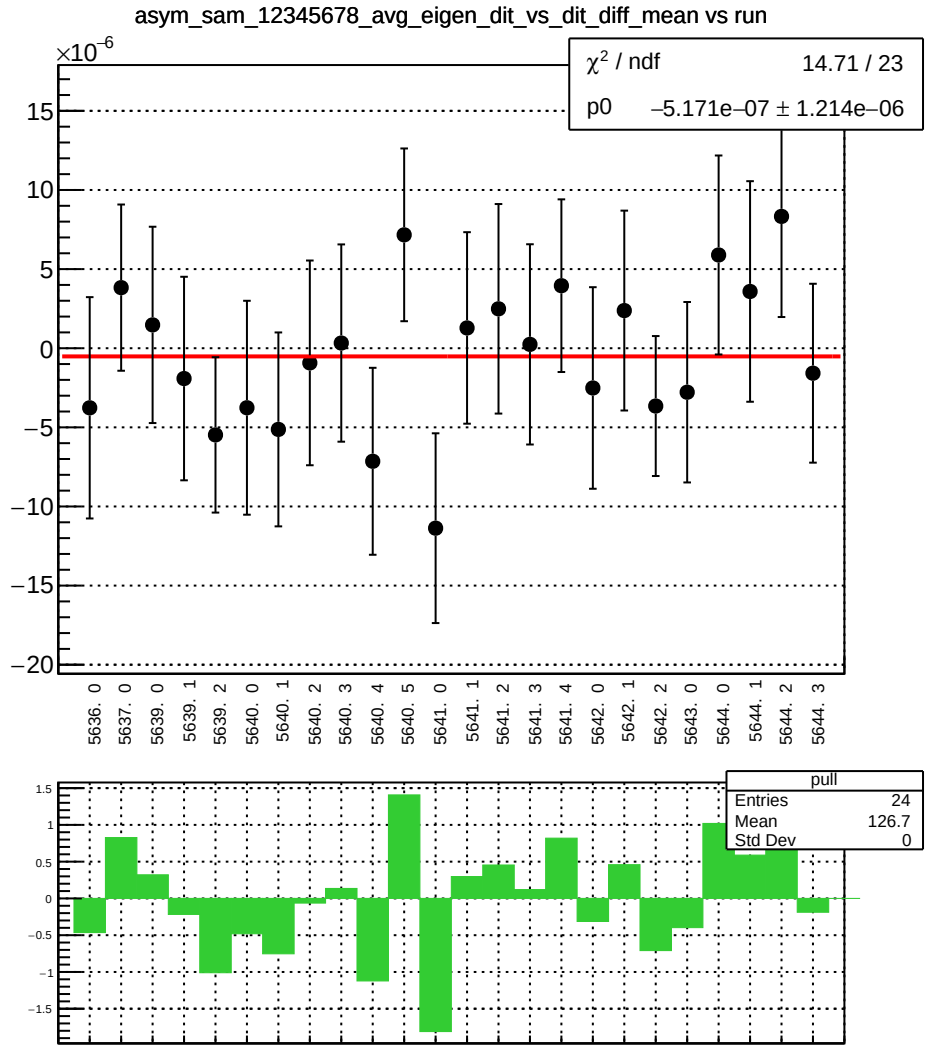

pull
Entries 24
Mean 45.03
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

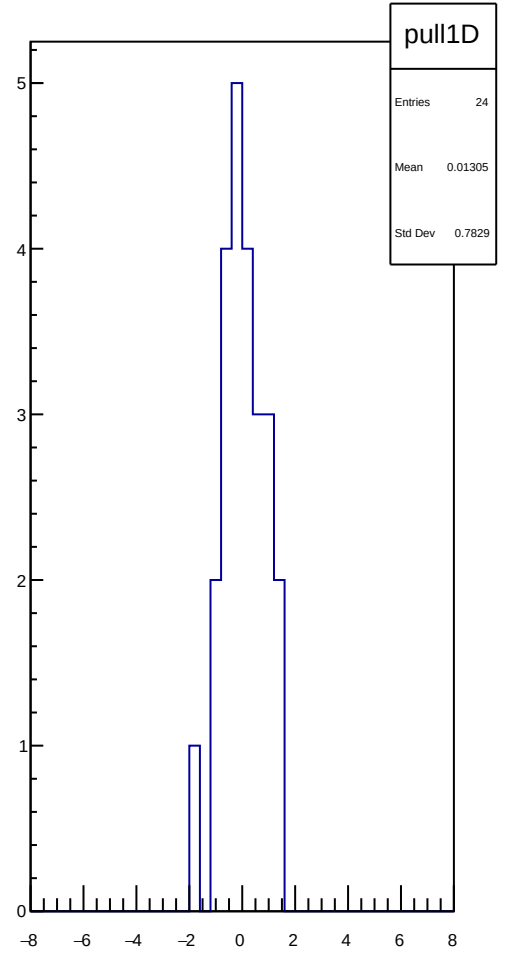

pull1D
Entries 24
Mean −0.04405
Std Dev 0.8722
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

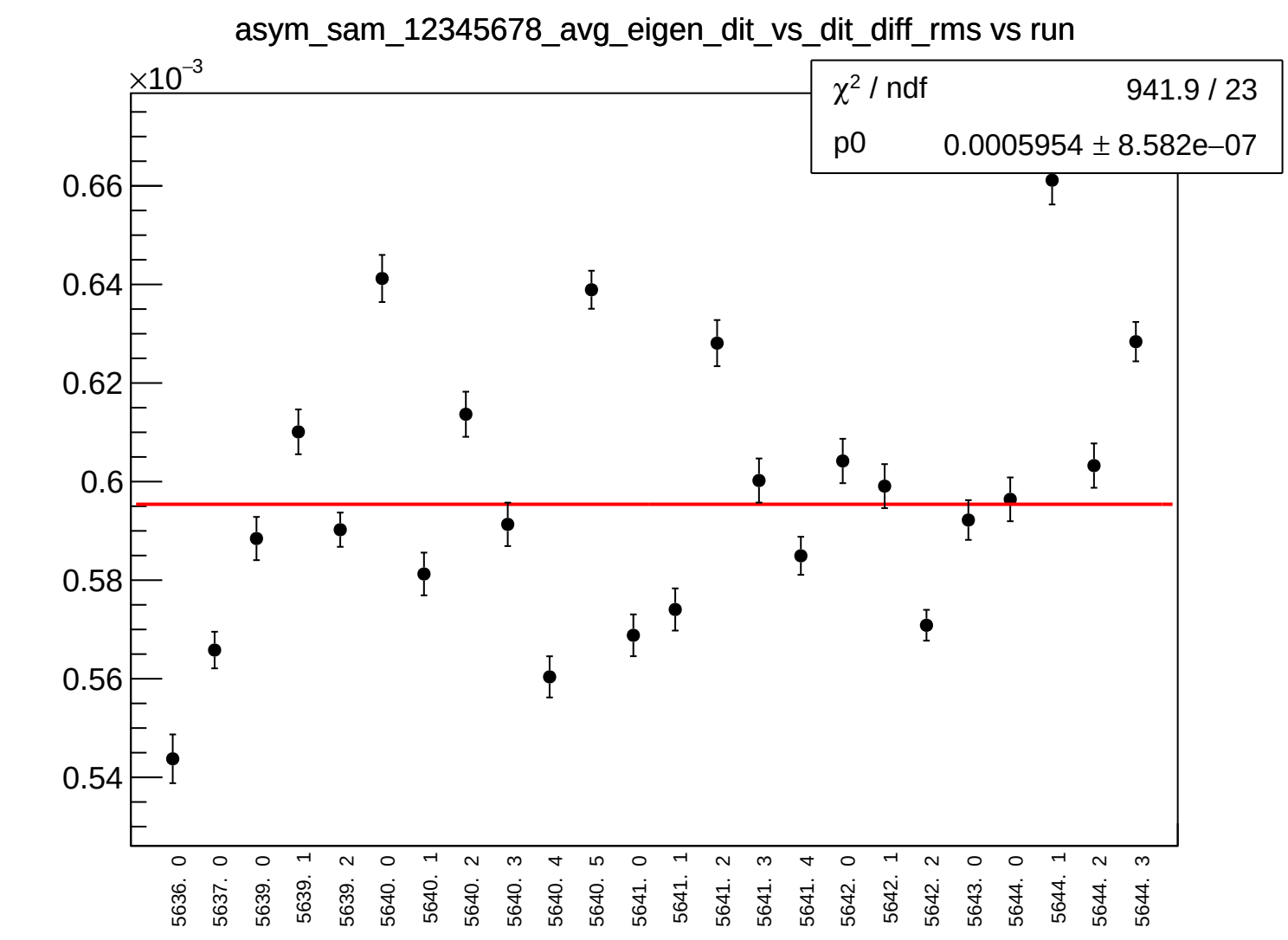

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.415e+04 / 23
p0 39.4 ± 0.05759
75
70
65
60
55
50
45
40
35
30
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

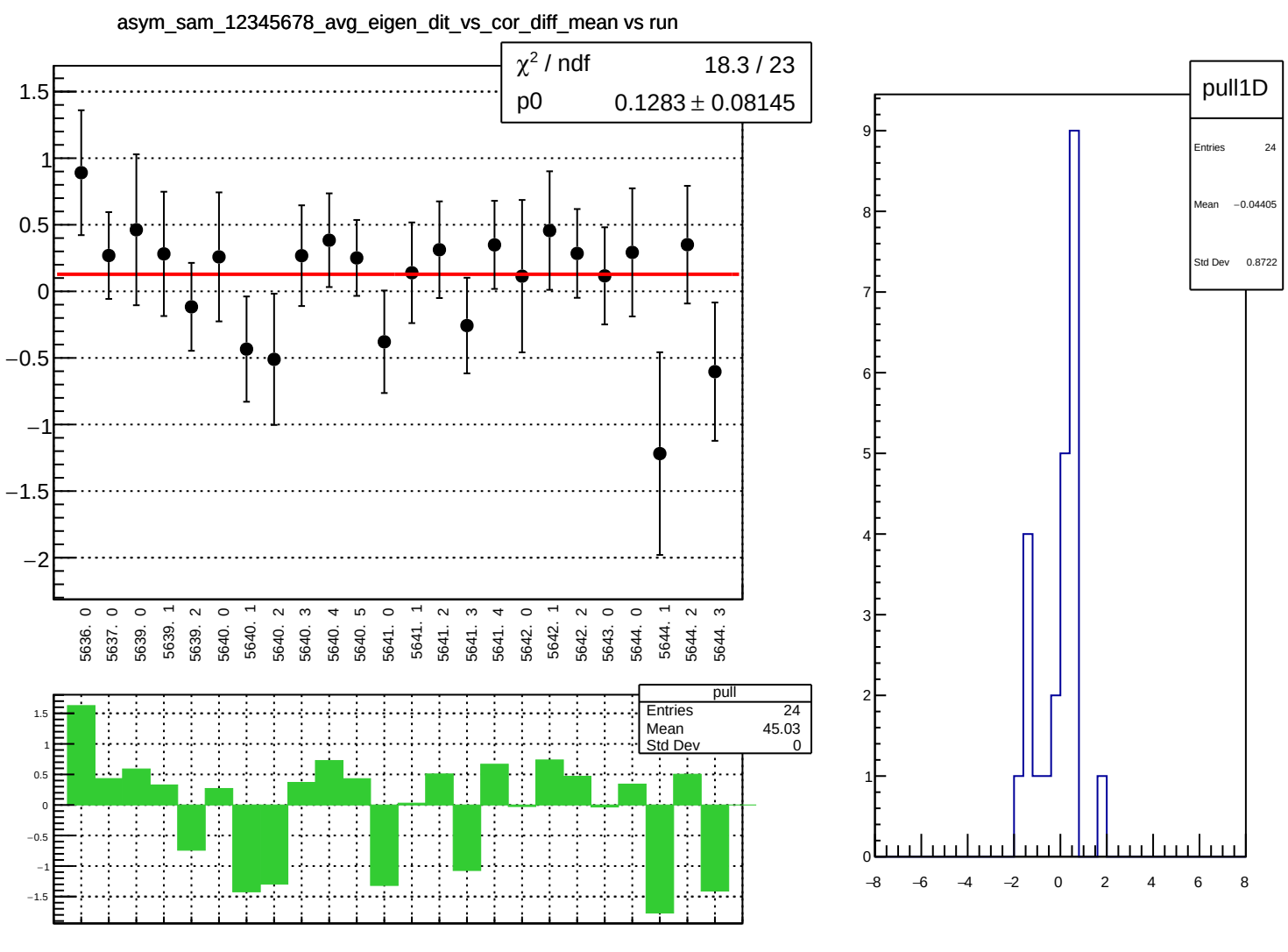

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 18.3 / 23
p0 0.1283 ± 0.08145
1.5
1
0.5
0
−0.5
−1
−1.5
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 45.03
Std Dev 0
pull1D
Entries 24
Mean −0.04405
Std Dev 0.8722
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

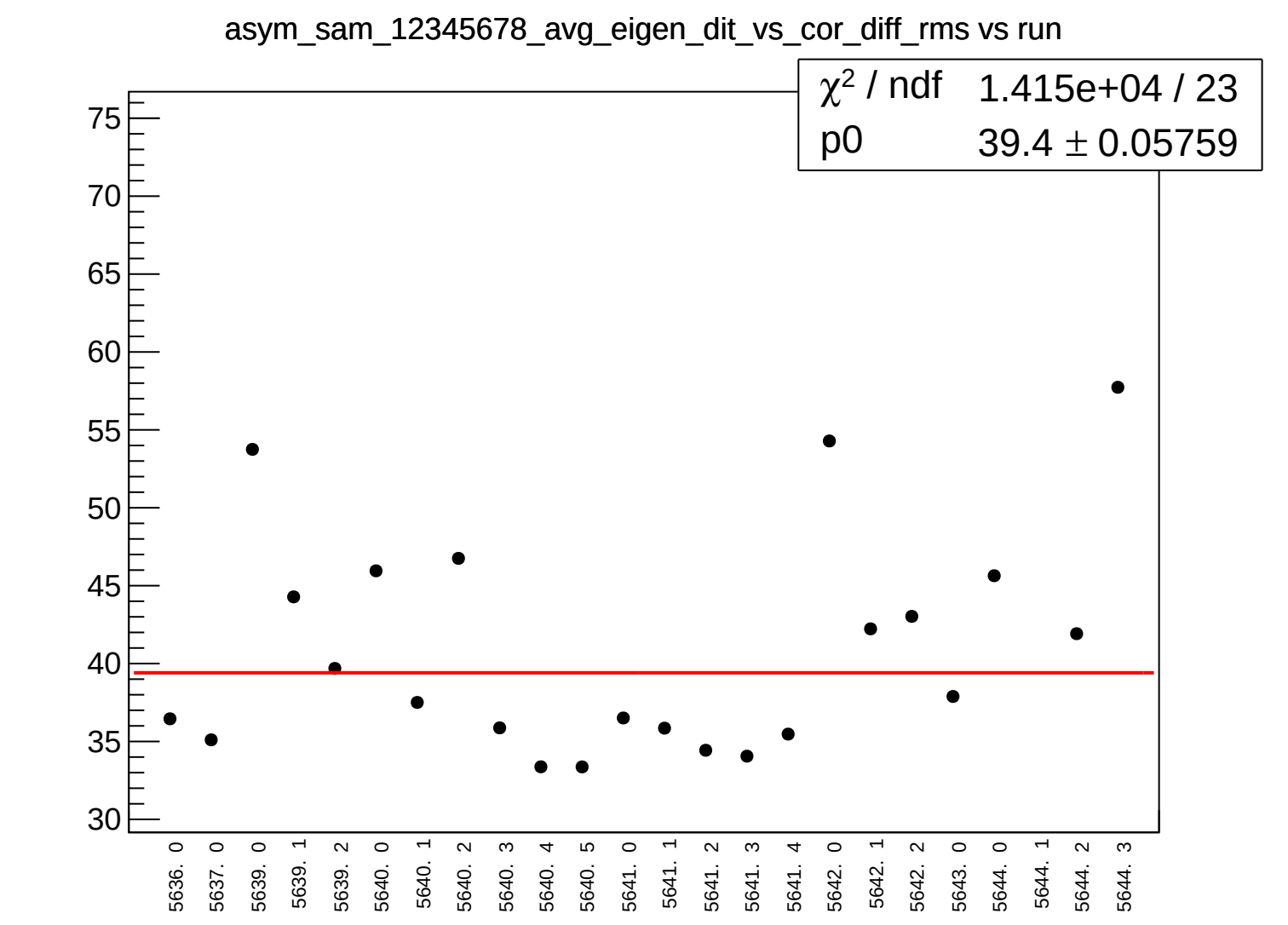

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.415e+04 / 23
p0 39.4 ± 0.05759
75
70
65
60
55
50
45
40
35
30
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

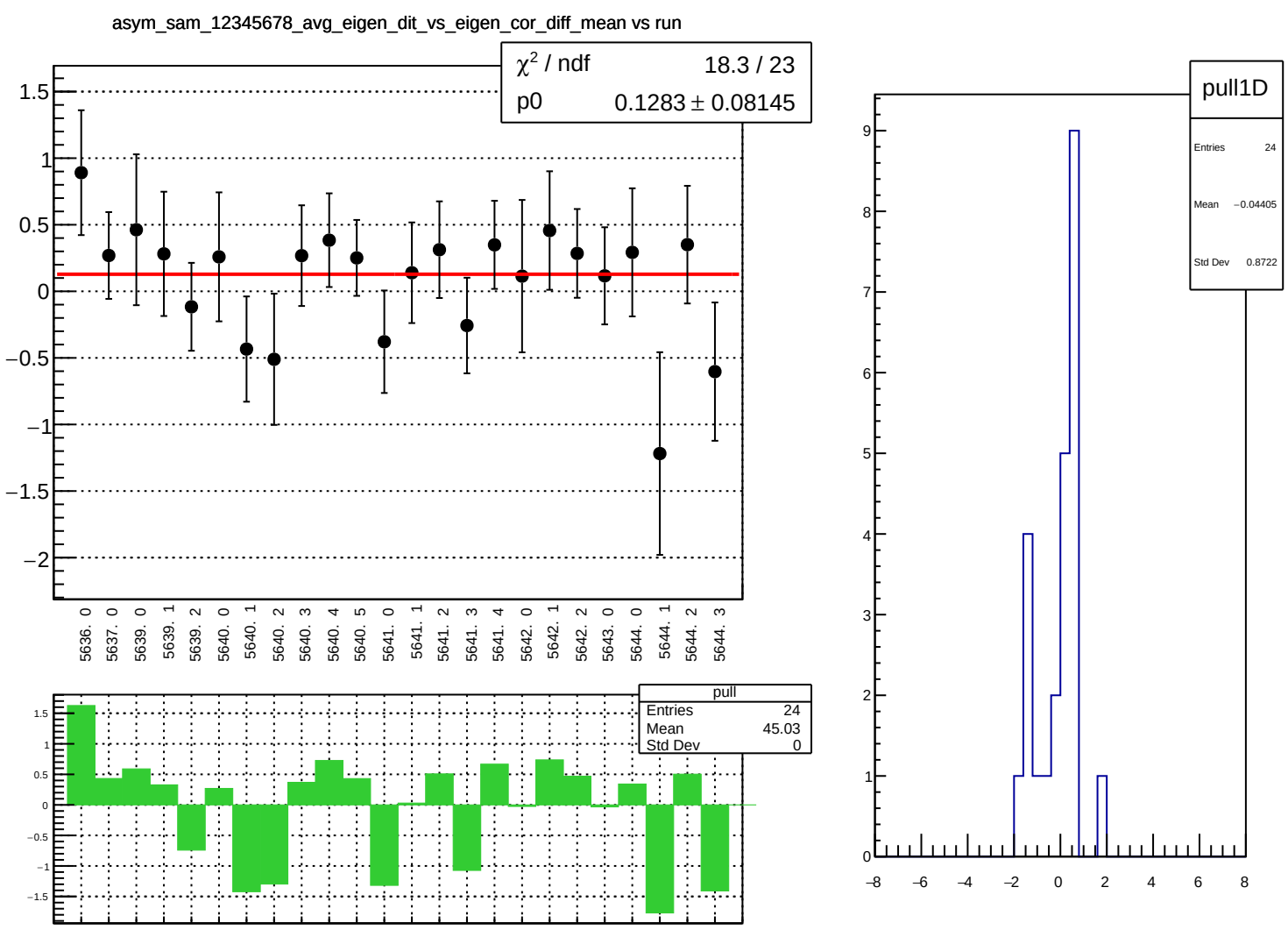

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 14.71 / 23
p0 −5.171e−07 ± 1.214e−06
15
10
5
0
−5
−10
−15
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 126.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

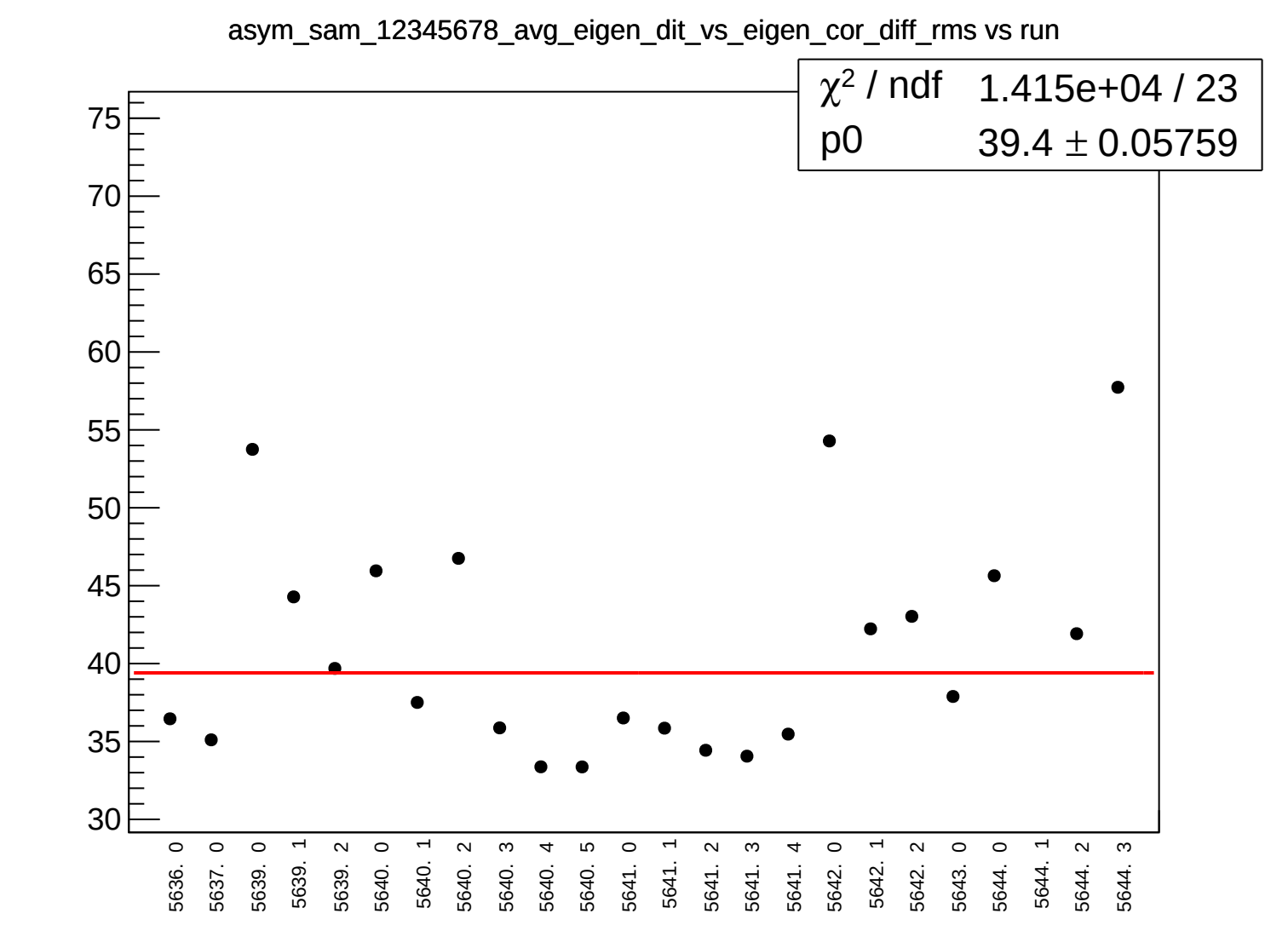

pull1D
Entries 24
Mean 0.01305
Std Dev 0.7829
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

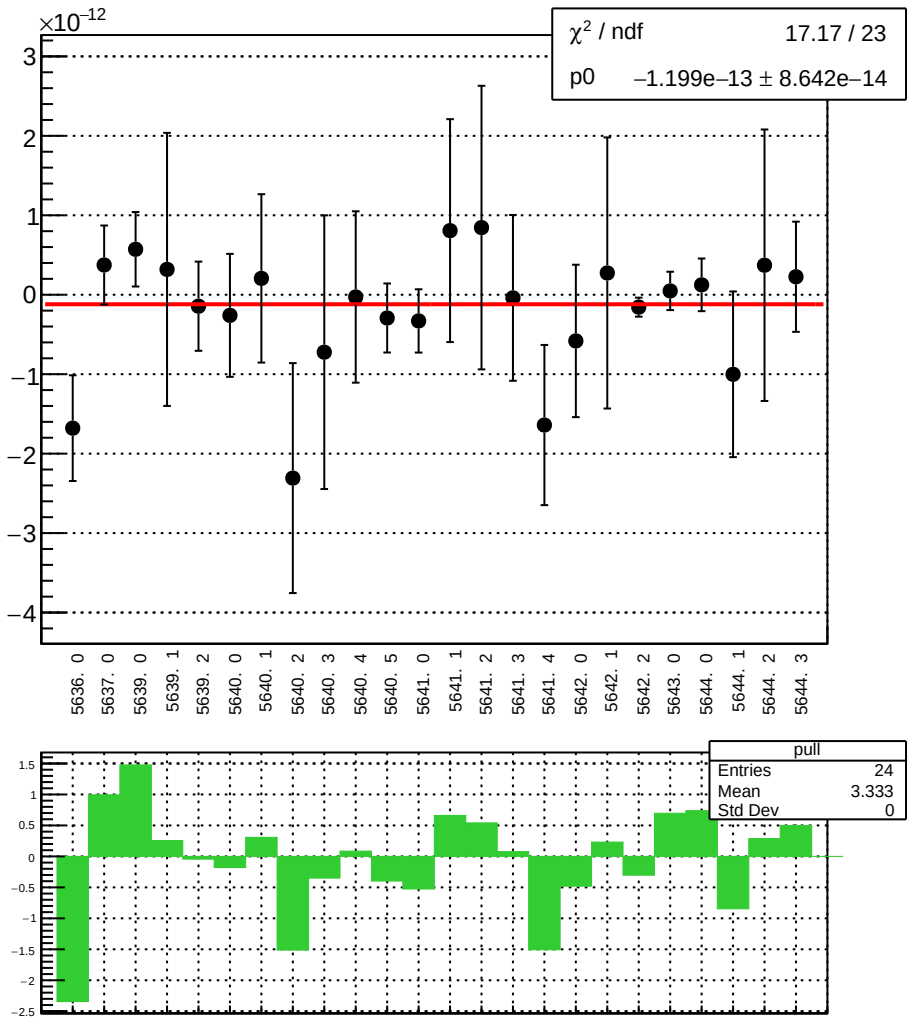

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 941.9 / 23
p0 0.0005954 ± 8.582e−07
0.66
0.64
0.62
0.6
0.58
0.56
0.54
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

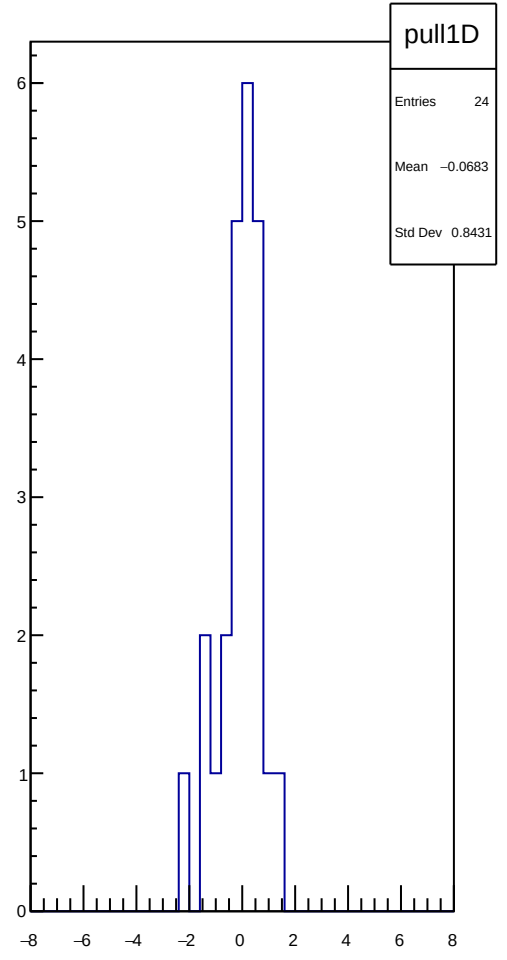

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 18.3 / 23
p0 0.1283 ± 0.08145
1.5
1
0.5
0
−0.5
−1
−1.5
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 45.03
Std Dev 0
pull1D
Entries 24
Mean −0.04405
Std Dev 0.8722
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

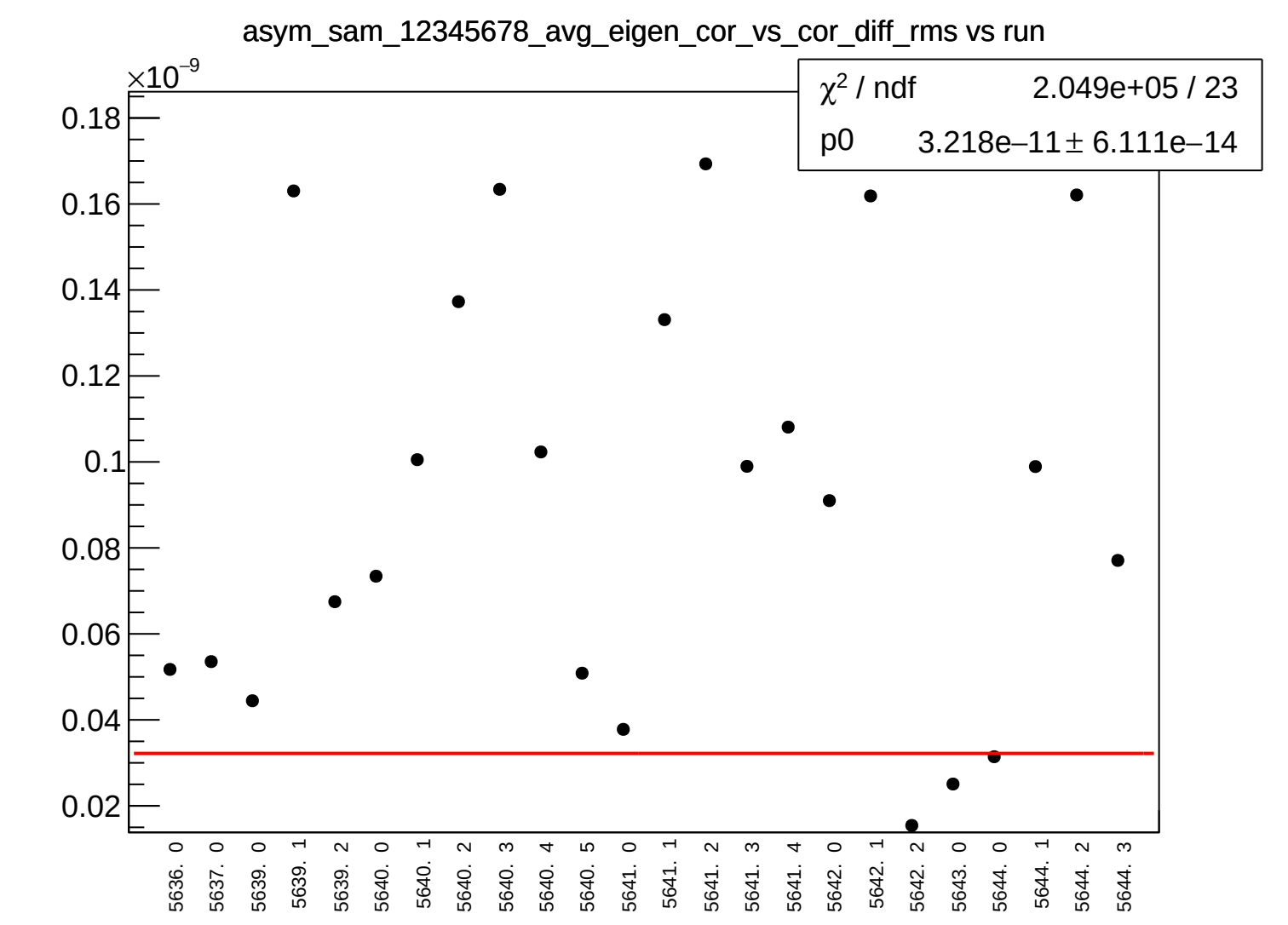

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.415e+04 / 23
p0 39.4 ± 0.05759
75
70
65
60
55
50
45
40
35
30
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

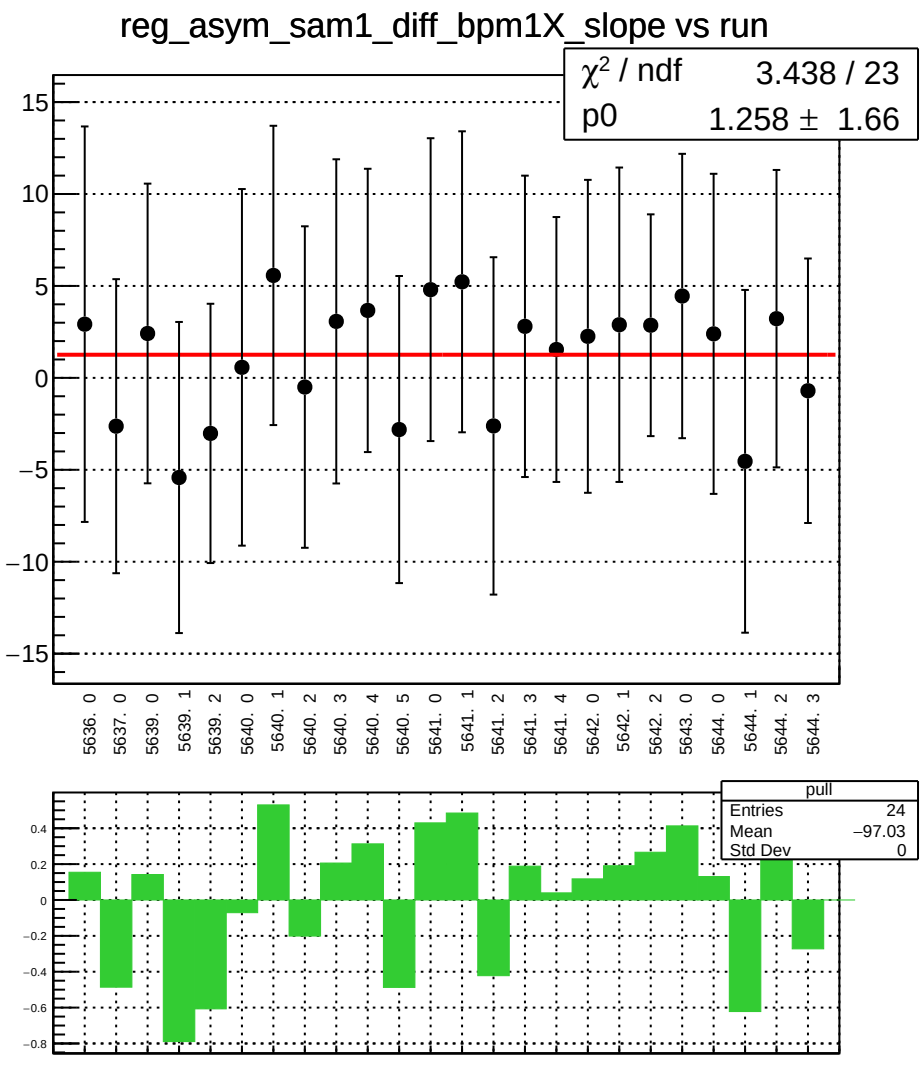

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 18.3 / 23
p0 0.1283 ± 0.08145
1.5
1
0.5
0
−0.5
−1
−1.5
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 45.03
Std Dev 0
pull1D
Entries 24
Mean −0.04405
Std Dev 0.8722
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

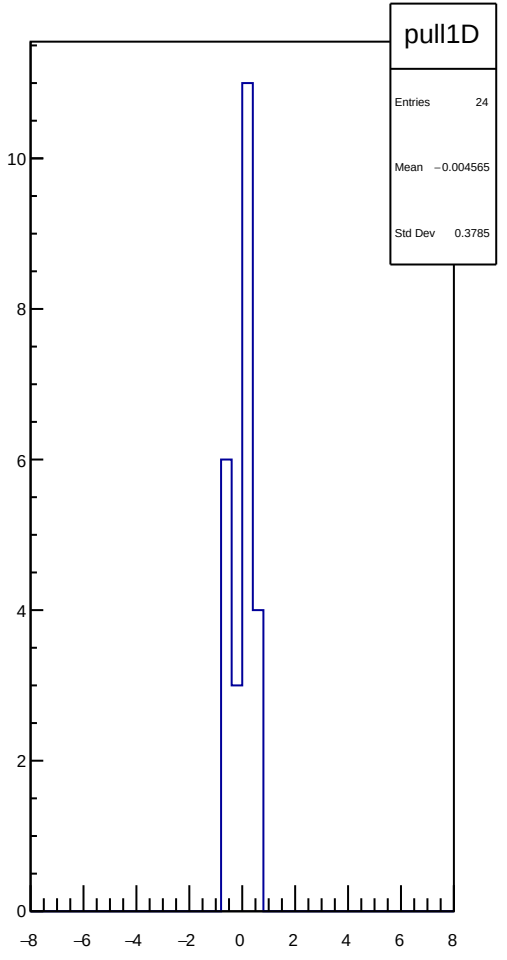

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.415e+04 / 23
p0 39.4 ± 0.05759
75
70
65
60
55
50
45
40
35
30
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

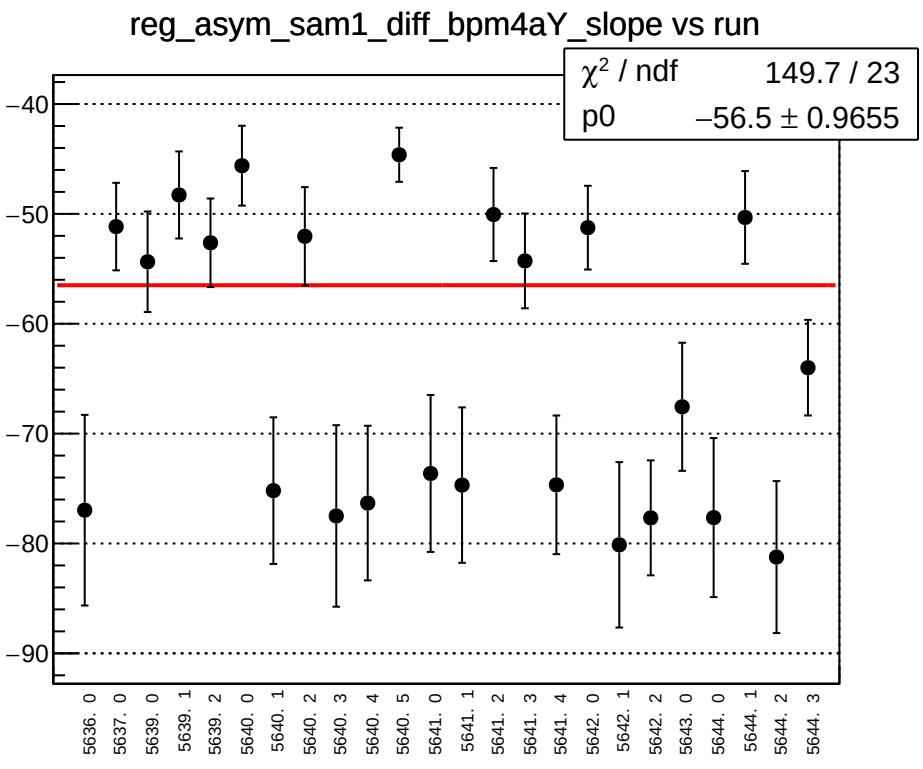

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 17.17 / 23
p0 −1.199e−13 ± 8.642e−14
3
2
1
0
−1
−2
−3
−4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 3.333
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

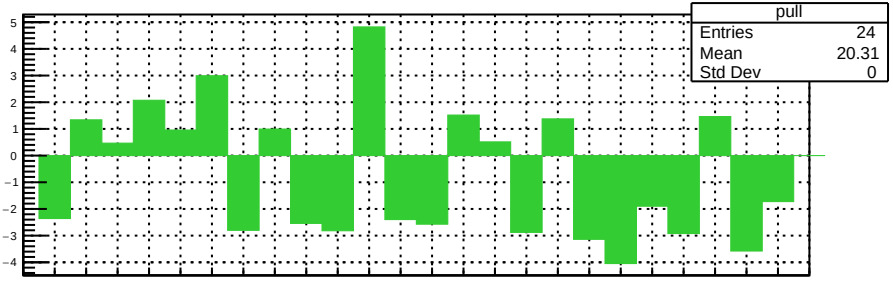

pull1D
Entries 24
Mean −0.0683
Std Dev 0.8431
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

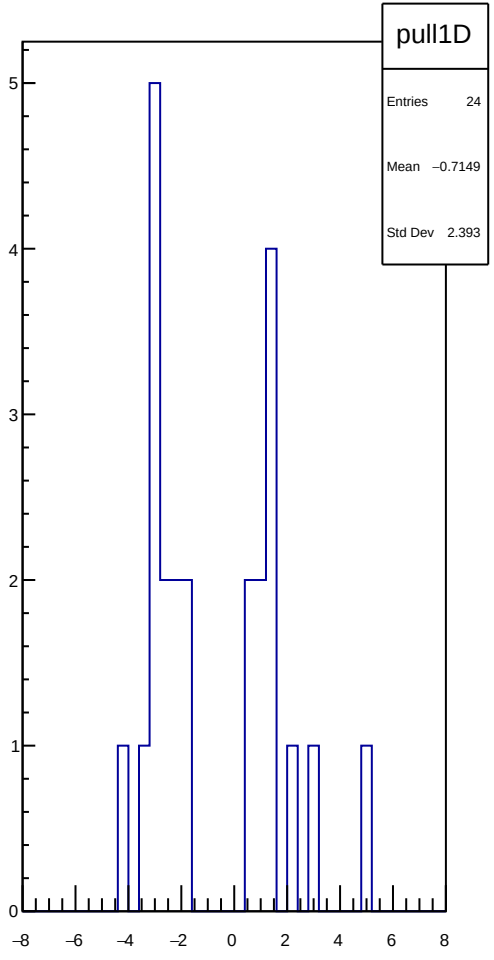

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.049e+05 / 23
p0 3.218e−11 ± 6.111e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

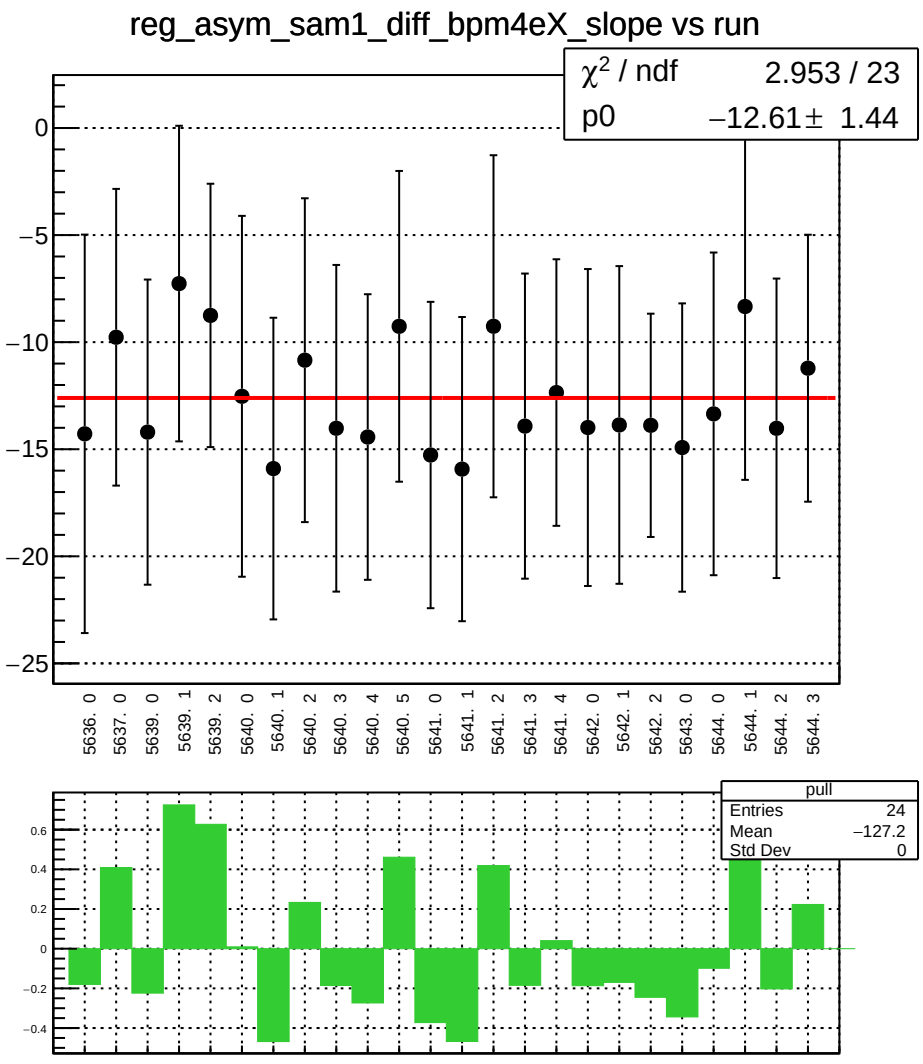

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 3.438 / 23
p0 1.258 ± 1.66
15
10
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −97.03
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

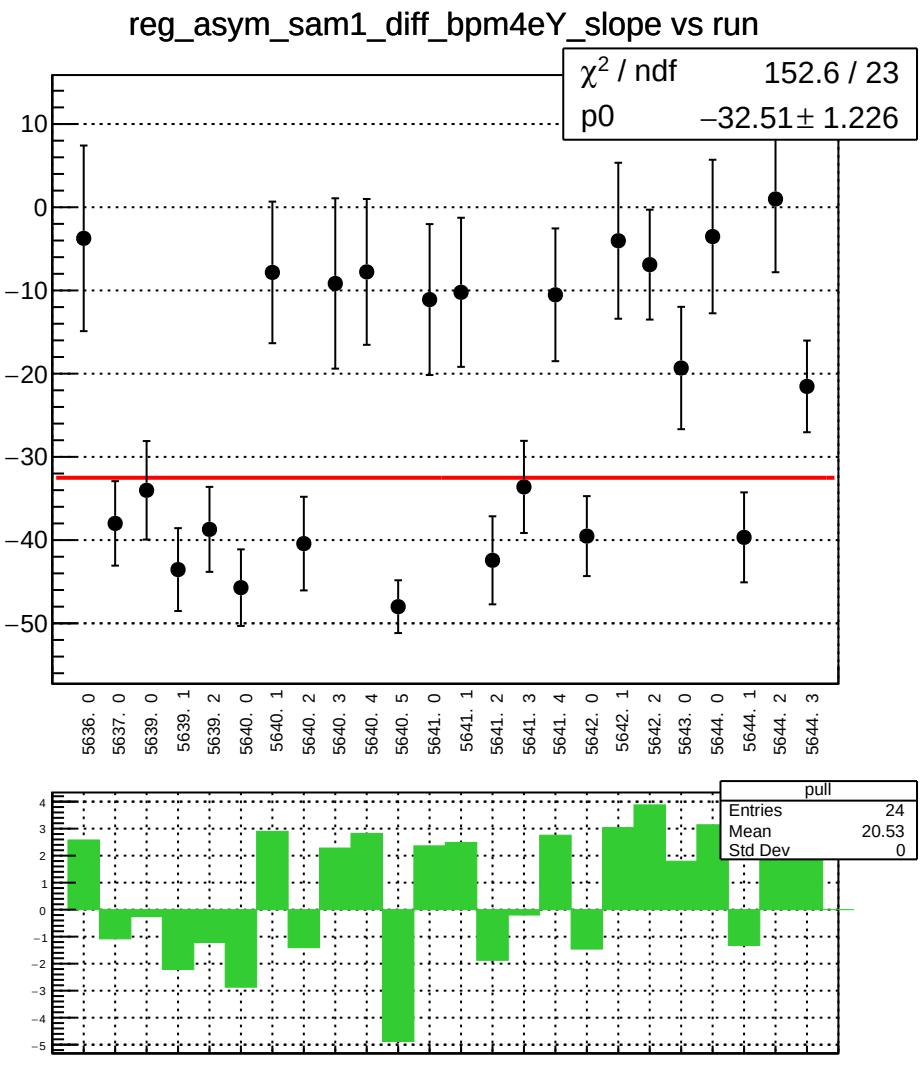

pull1D
Entries 24
Mean −0.004565
Std Dev 0.3785
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

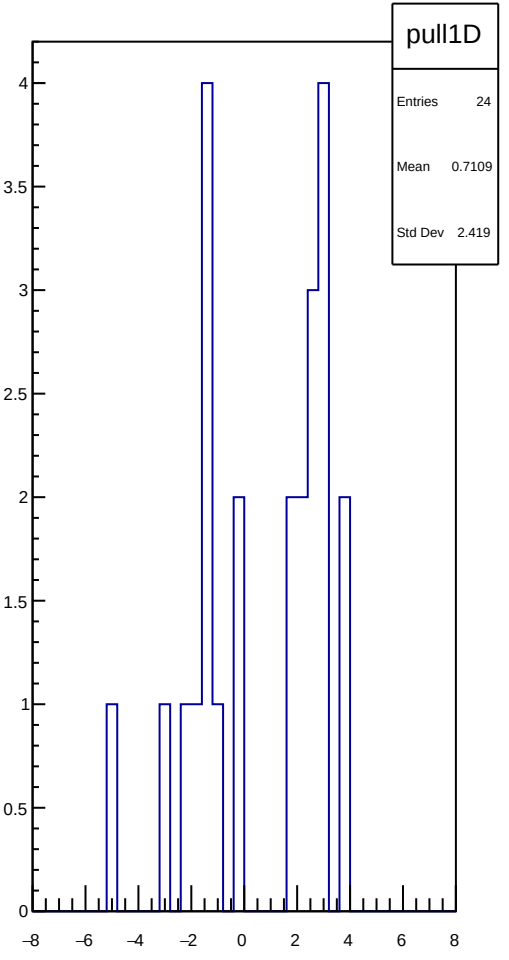

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 149.7 / 23
p0 −56.5 ± 0.9655
−40
−50
−60
−70
−80
−90
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

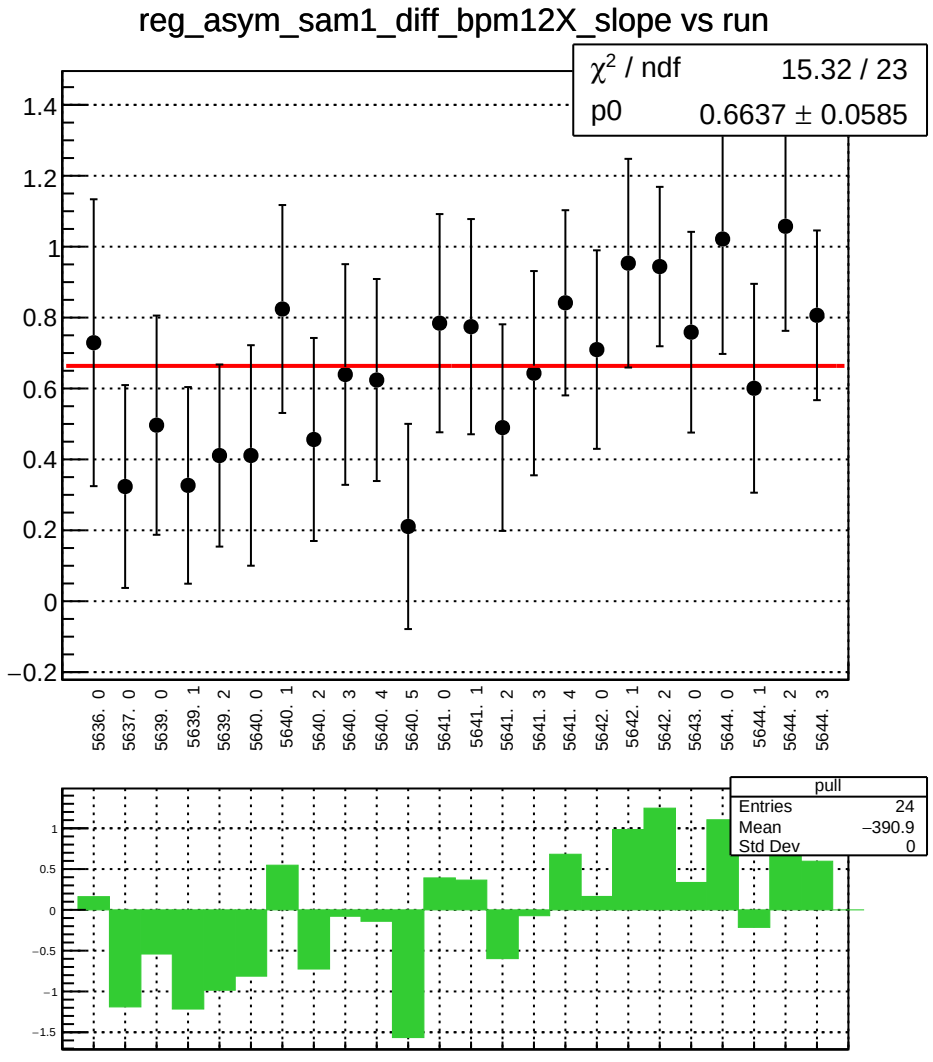

pull
Entries 24
Mean 20.31
Std Dev 0

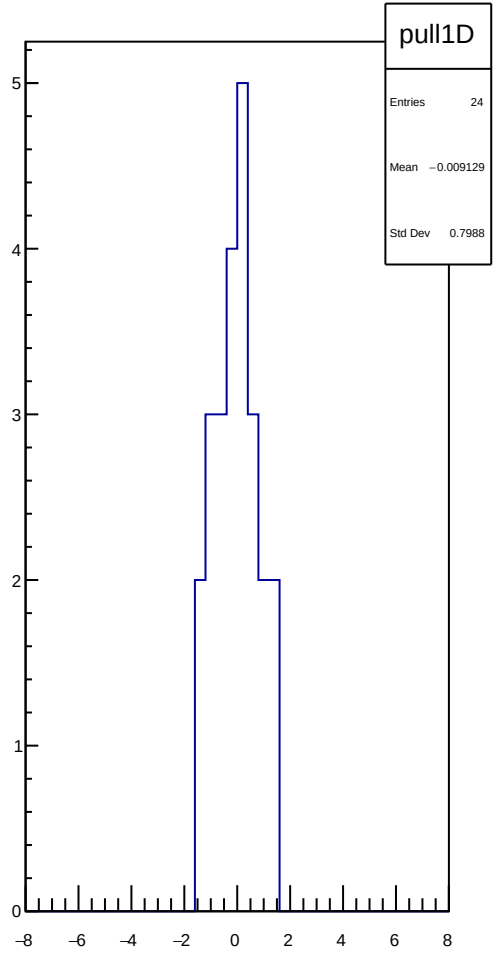

pull1D
Entries 24
Mean −0.7149
Std Dev 2.393
−8
−6
−4
−2
0
2
4
6
8

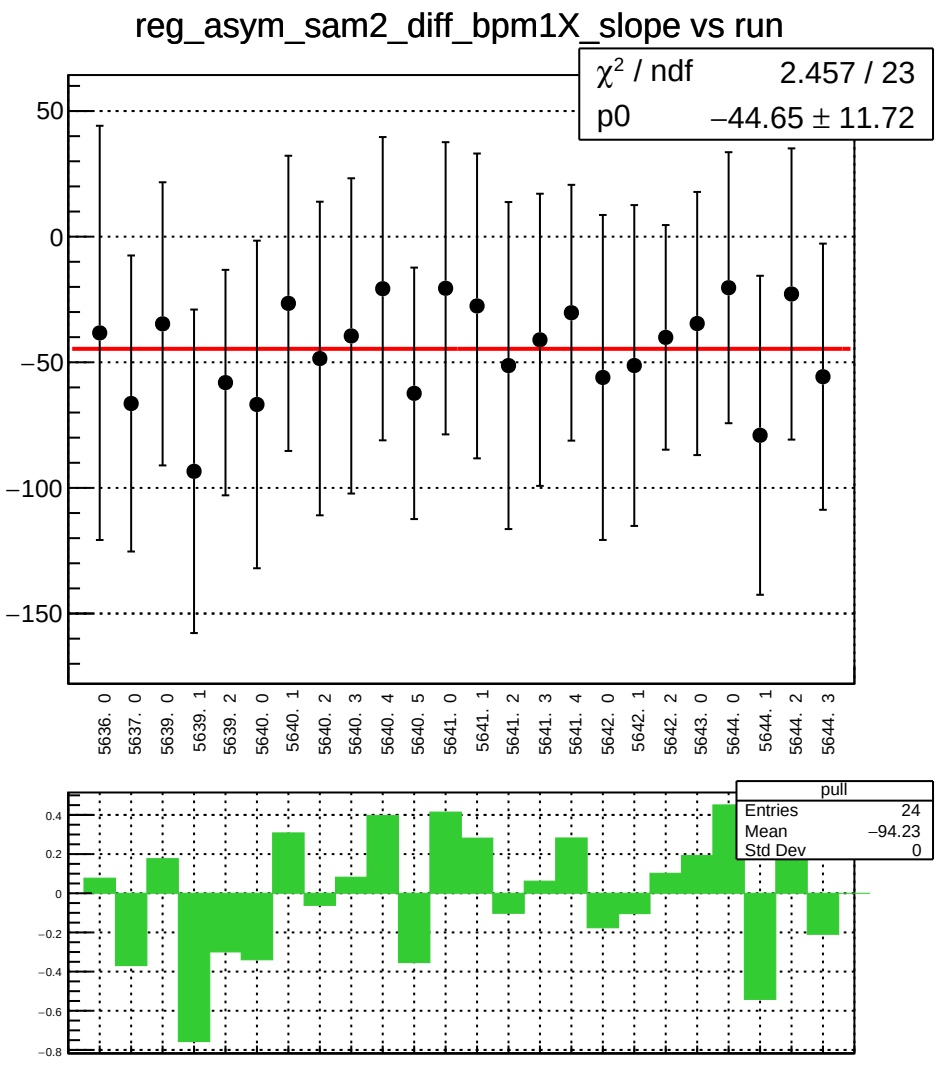

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 2.953 / 23
p0 −12.61 ± 1.44
0
−5
−10
−15
−20
−25
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −127.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 24
Mean 0.002972
Std Dev 0.3508
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

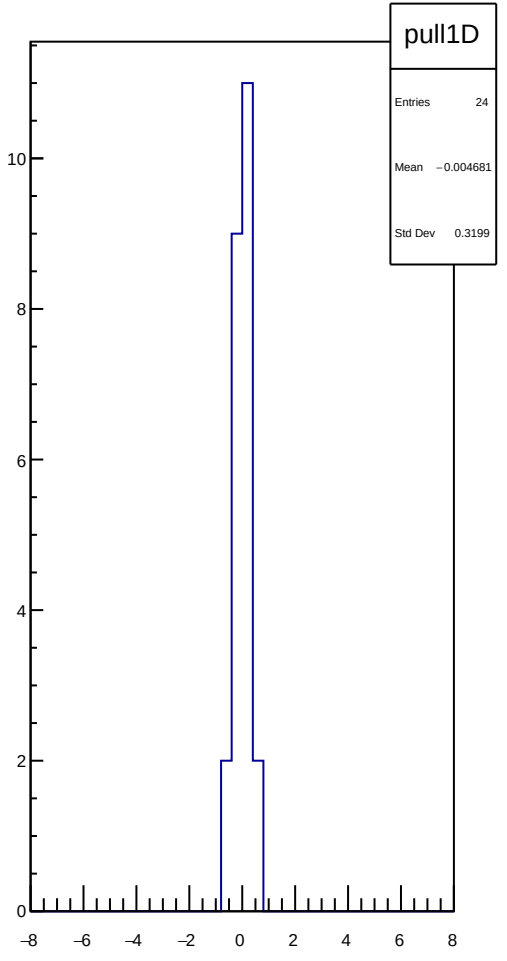

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 152.6 / 23
p0 −32.51± 1.226
10
0
−10
−20
−30
−40
−50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 20.53
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
−5

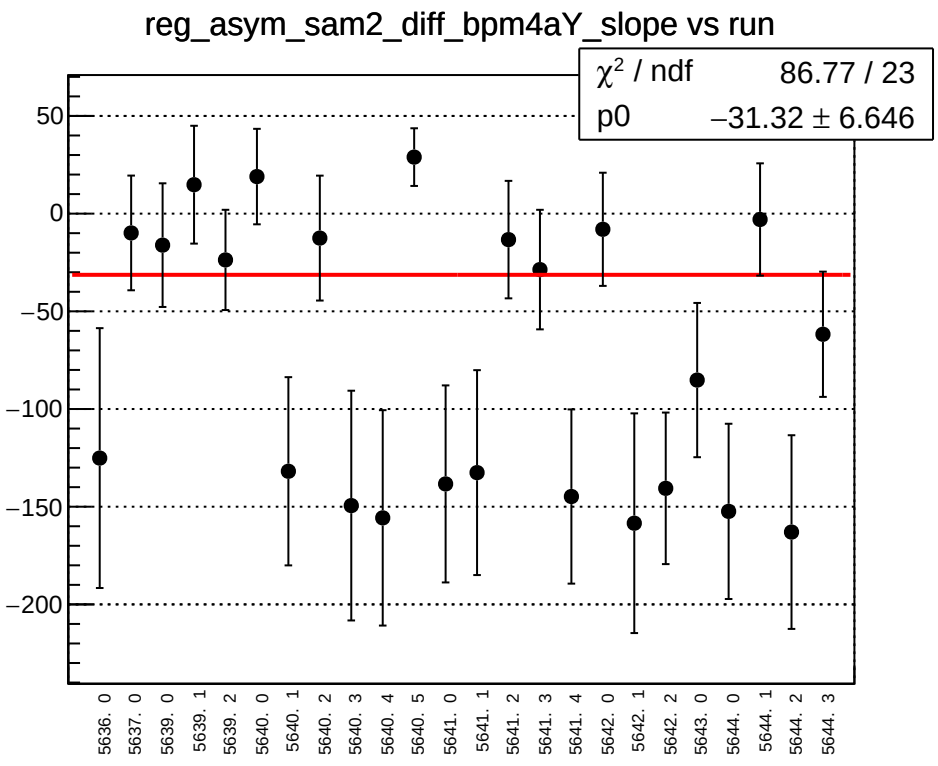

pull1D
Entries 24
Mean 0.7109
Std Dev 2.419
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

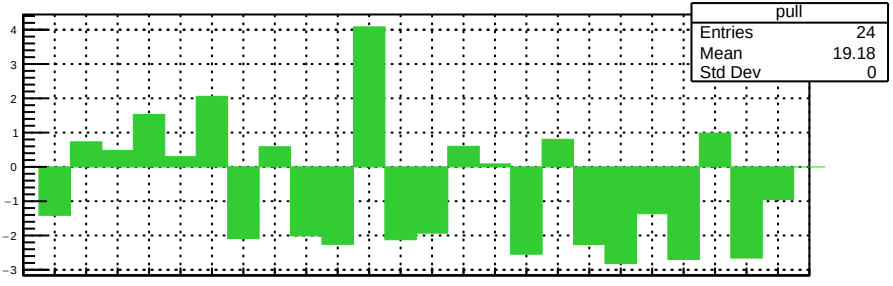

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 15.32 / 23
p0 0.6637 ± 0.0585
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −390.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

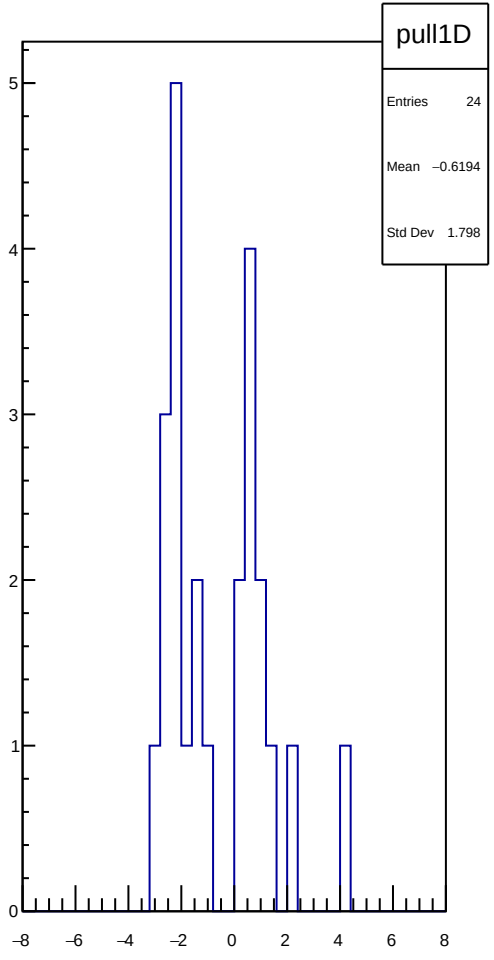

pull1D
Entries 24
Mean −0.009129
Std Dev 0.7988
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

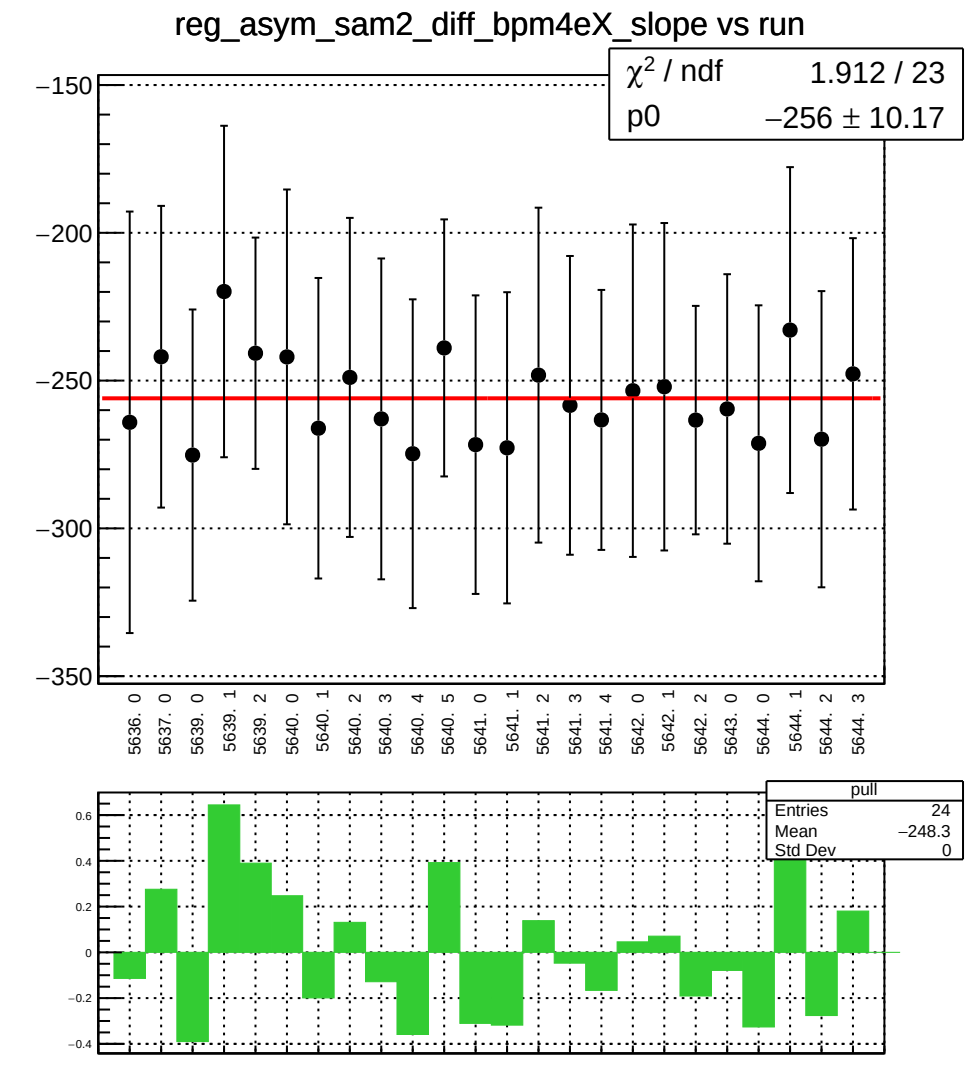

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 2.457 / 23
p0 −44.65 ± 11.72
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −94.23
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

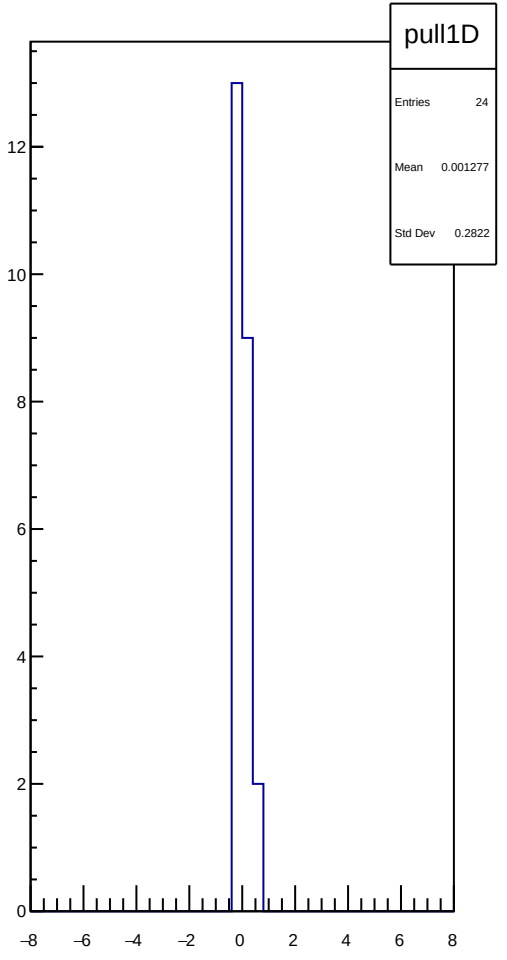

pull1D
Entries 24
Mean −0.004681
Std Dev 0.3199
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

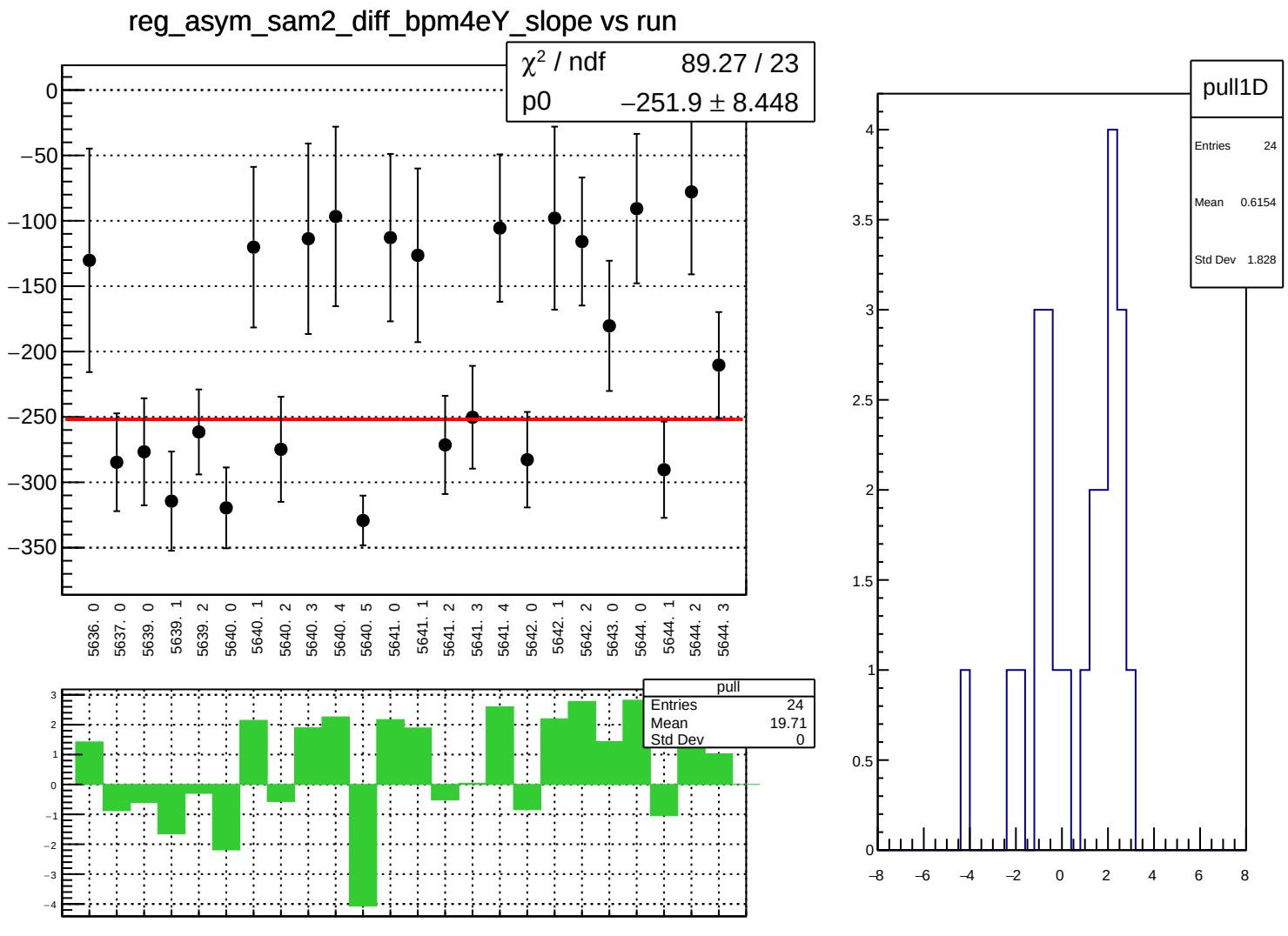

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 86.77 / 23
p0 −31.32 ± 6.646
50
0
−50
−100
−150
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

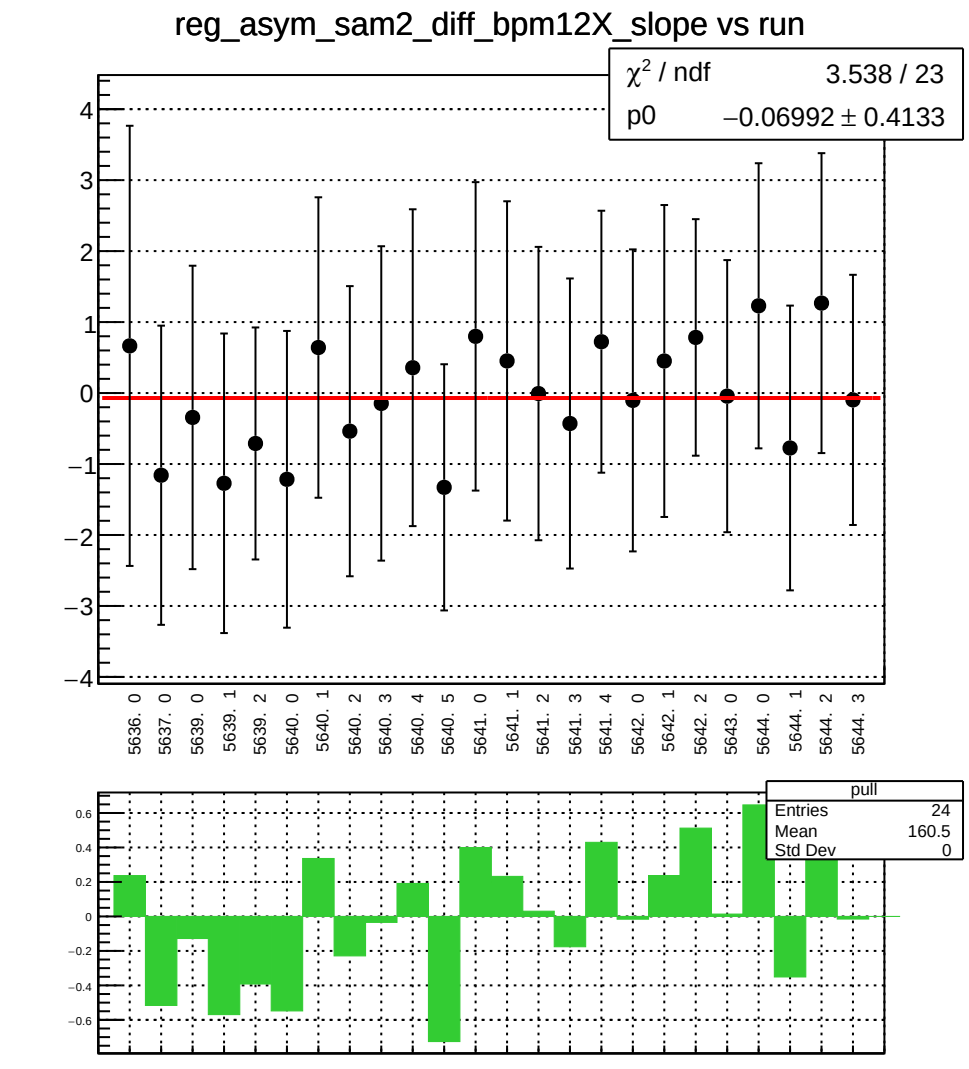

pull
Entries 24
Mean 19.18
Std Dev 0

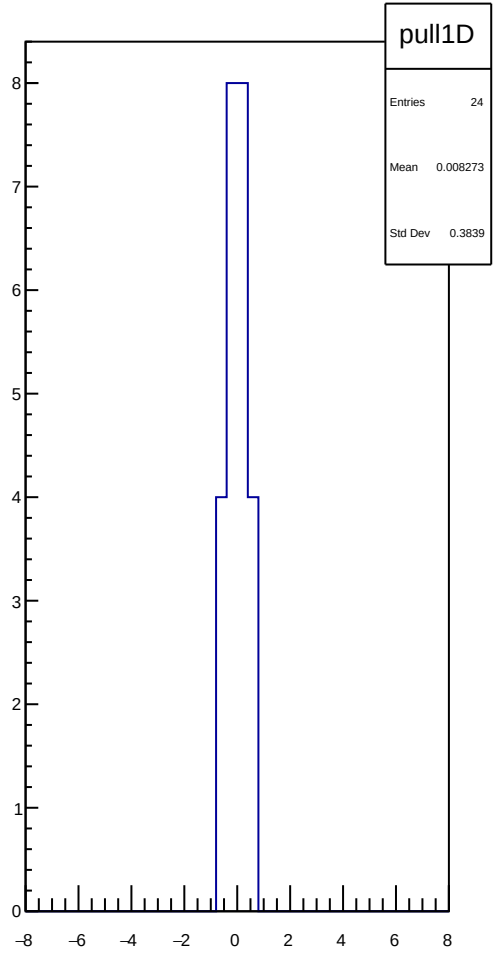

pull1D
Entries 24
Mean −0.6194
Std Dev 1.798

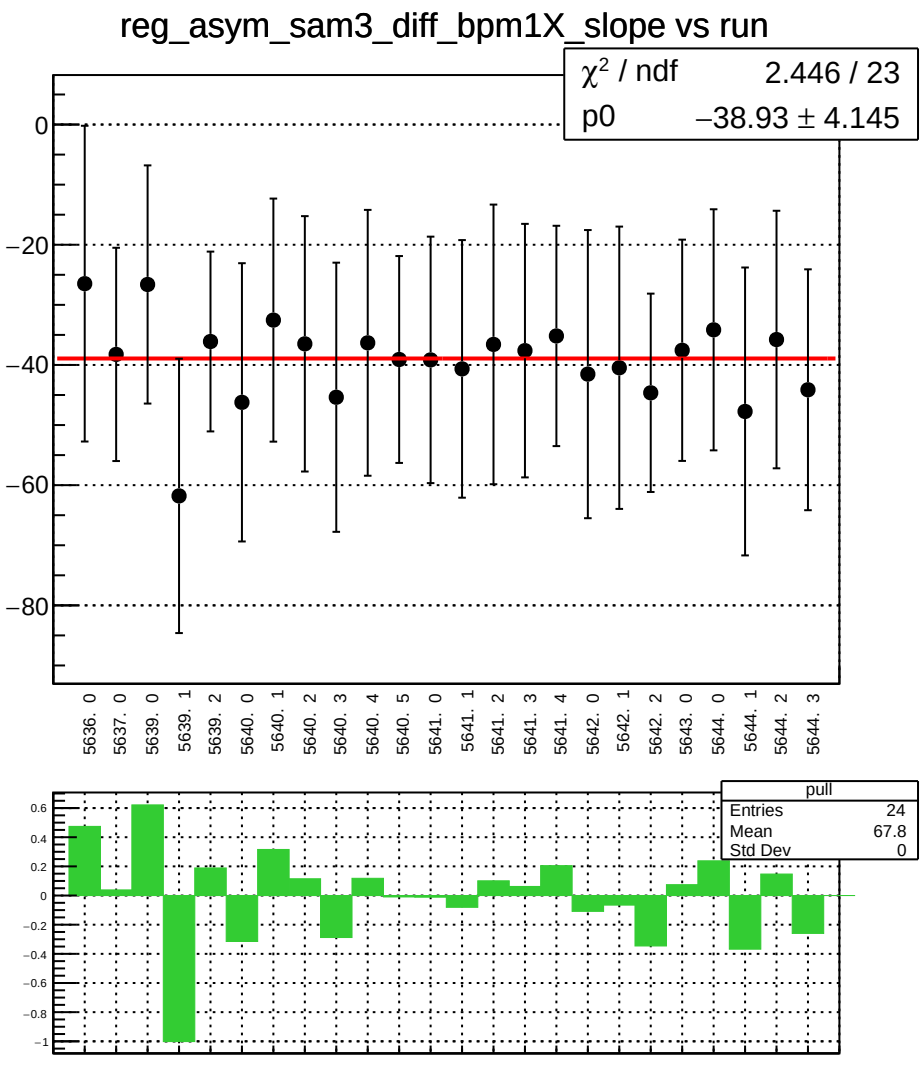

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 1.912 / 23
p0 −256 ± 10.17
−150
−200
−250
−300
−350
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −248.3
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

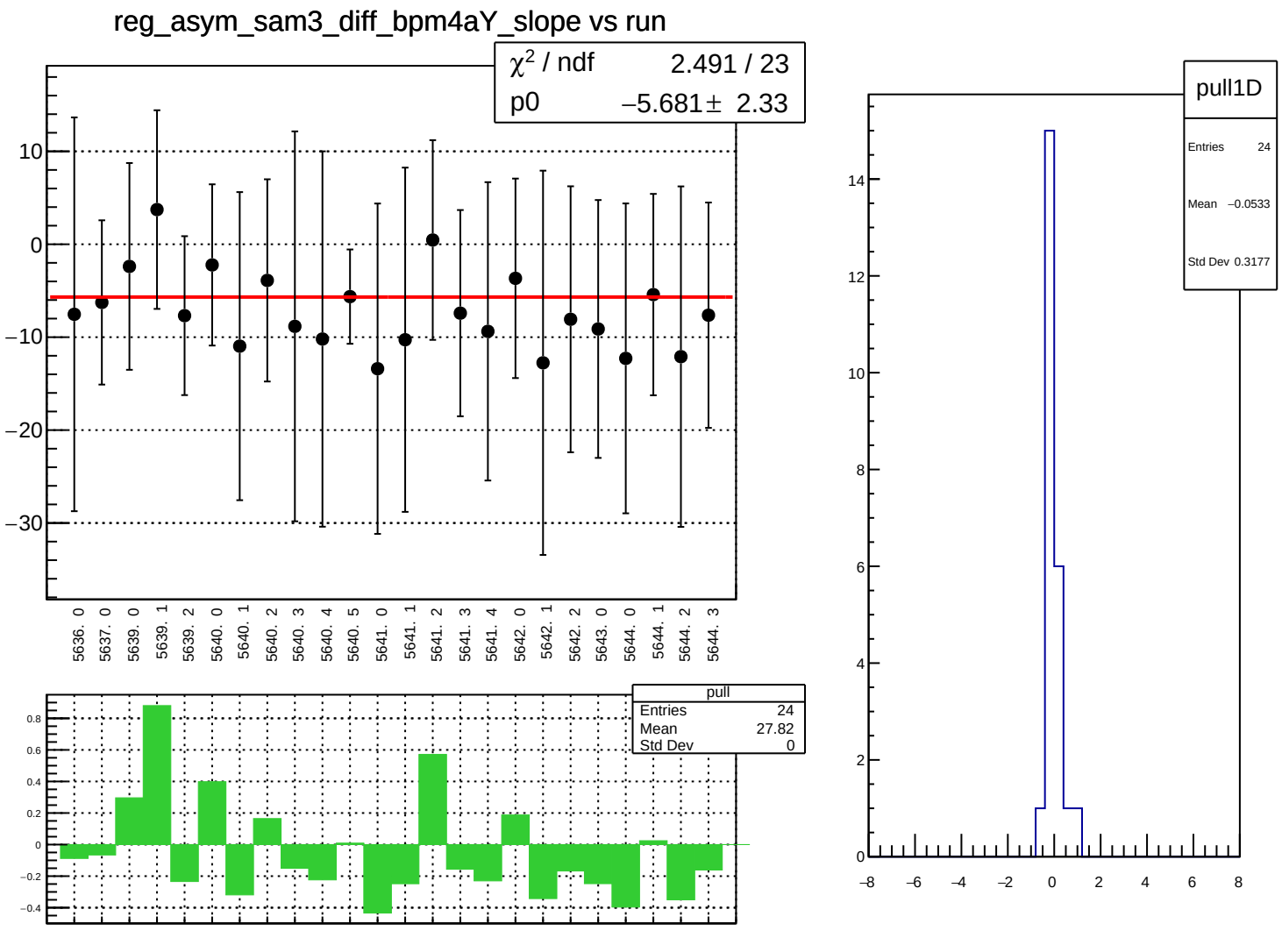

pull1D
Entries 24
Mean 0.001277
Std Dev 0.2822
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

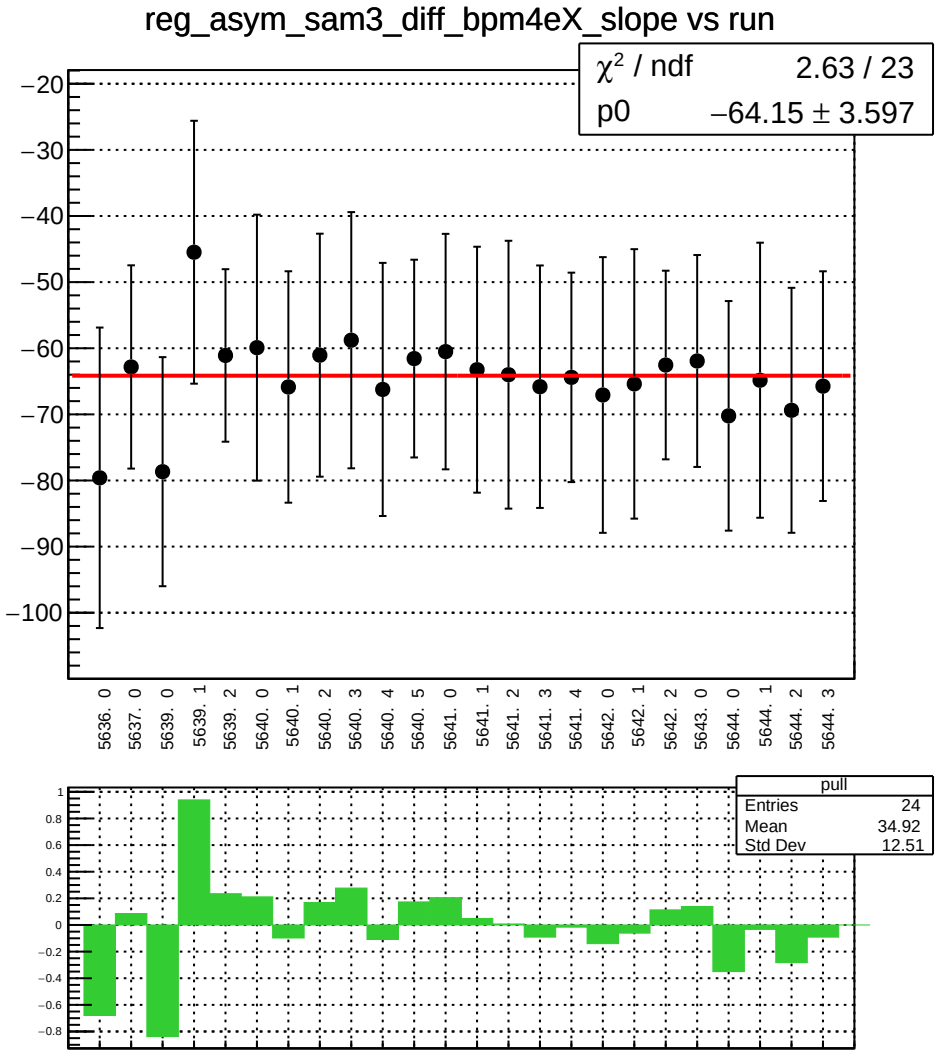

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 89.27 / 23
p0 −251.9 ± 8.448
0
−50
−100
−150
−200
−250
−300
−350
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 19.71
Std Dev 0
pull1D
Entries 24
Mean 0.6154
Std Dev 1.828

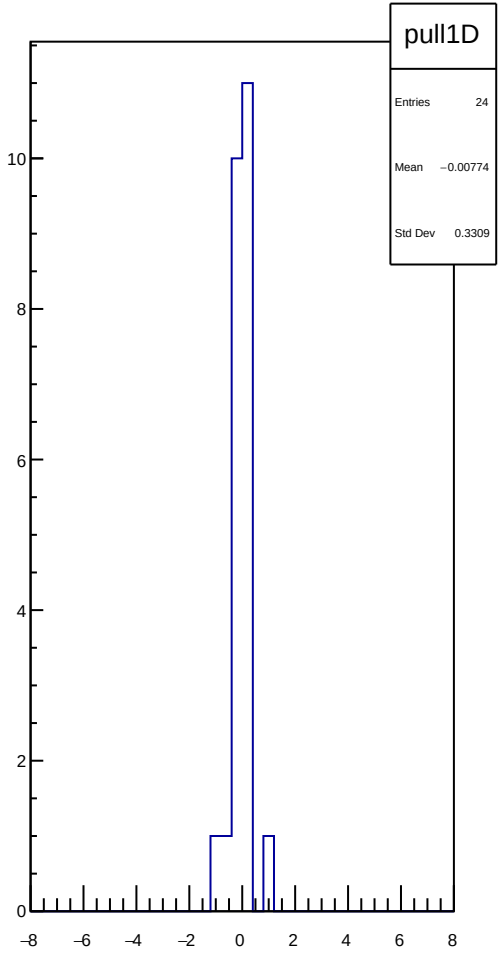

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 3.538 / 23
p0 −0.06992 ± 0.4133
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 160.5
Std Dev 0

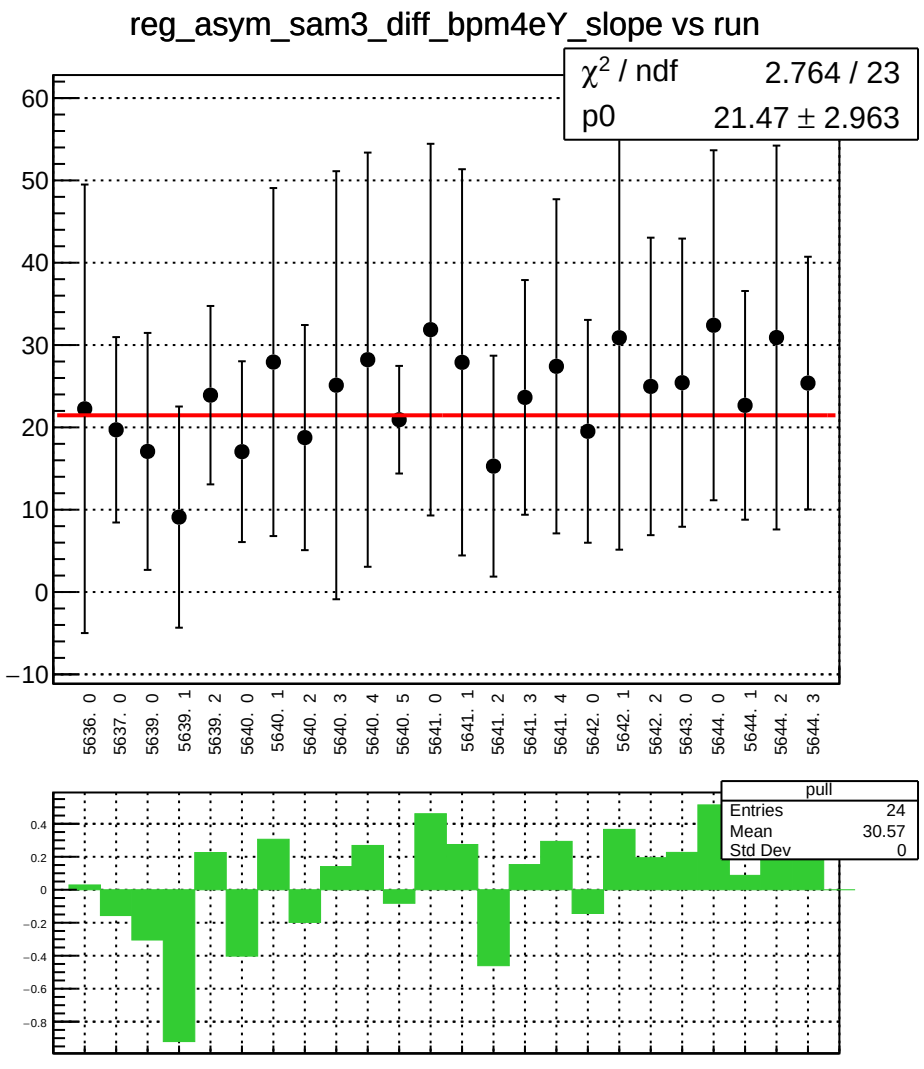

pull1D
Entries 24
Mean 0.008273
Std Dev 0.3839

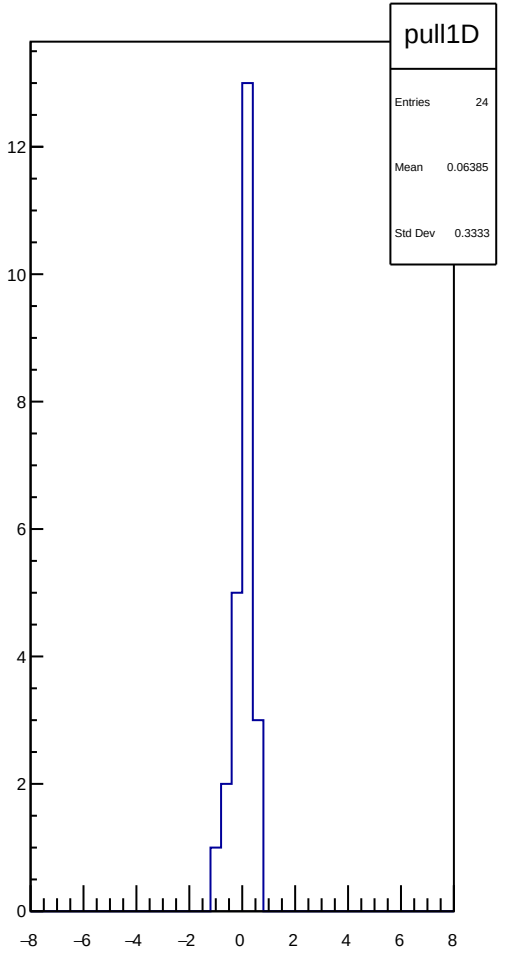

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 2.446 / 23
p0 −38.93 ± 4.145
0
−20
−40
−60
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 67.8
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 24
Mean −0.006425
Std Dev 0.3192
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

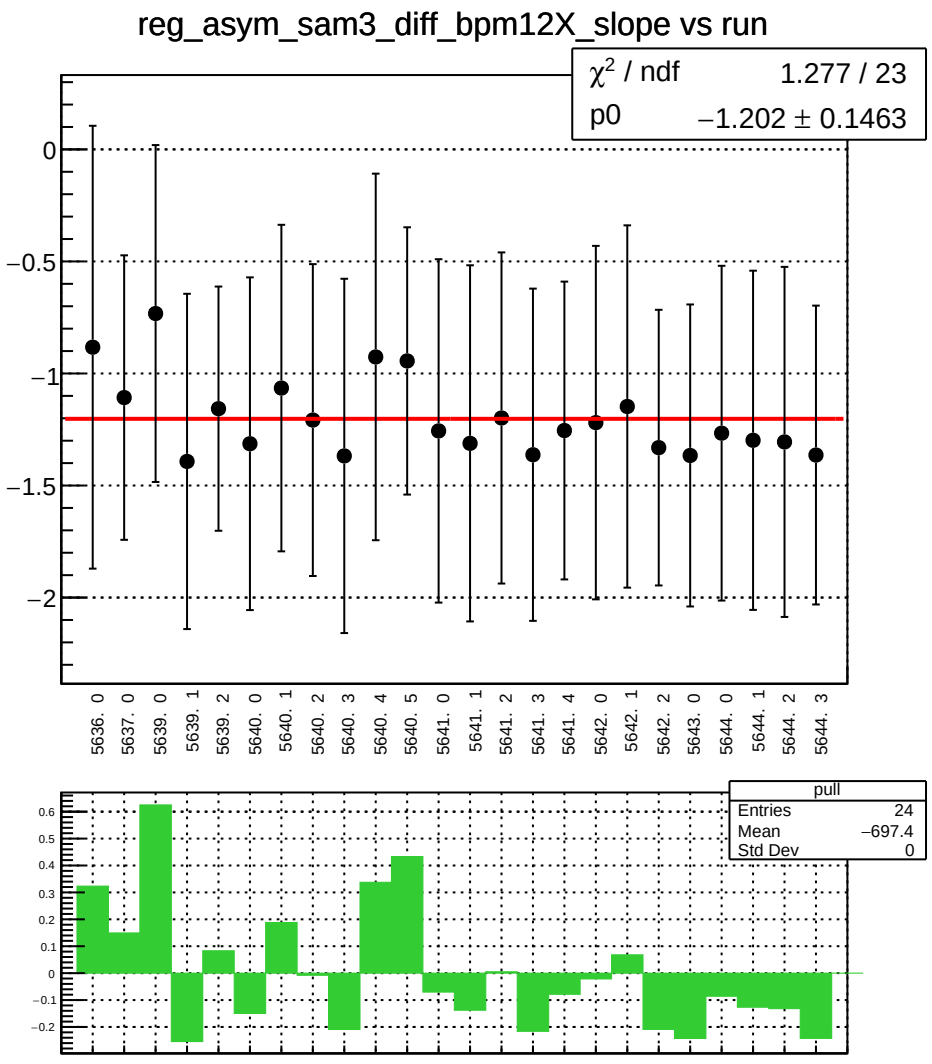

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 2.491 / 23
p0 −5.681 ± 2.33
10
0
−10
−20
−30
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 27.82
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 24
Mean −0.0533
Std Dev 0.3177
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

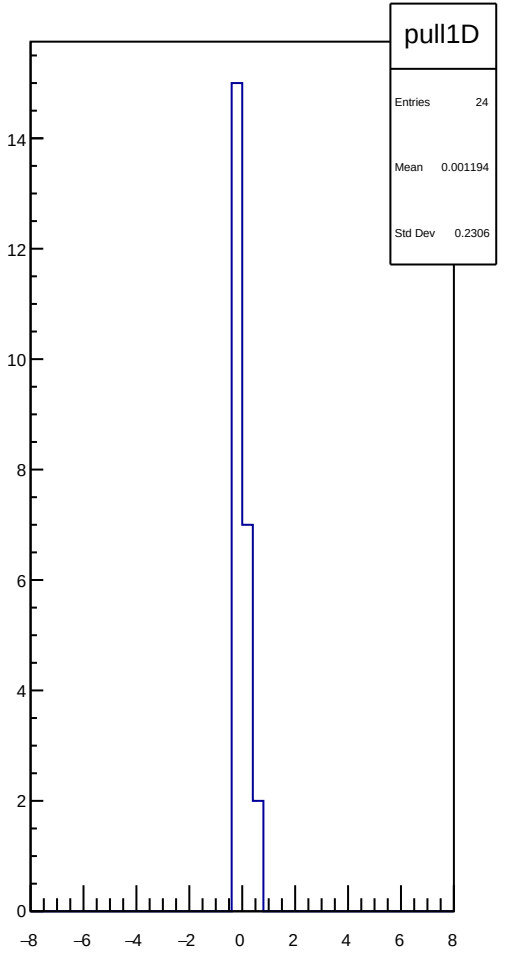

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 2.63 / 23
p0 −64.15 ± 3.597
−20
−30
−40
−50
−60
−70
−80
−90
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 34.92
Std Dev 12.51
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

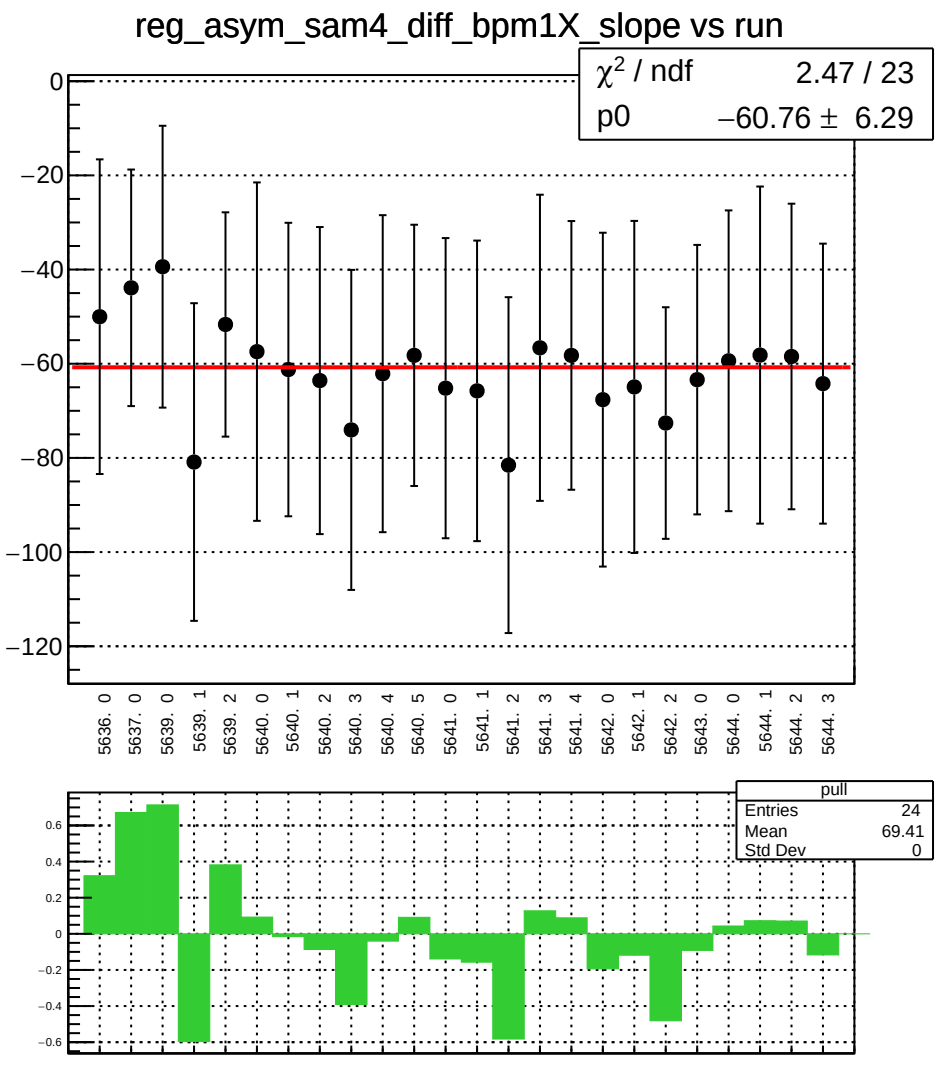

pull1D
Entries 24
Mean −0.00774
Std Dev 0.3309
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

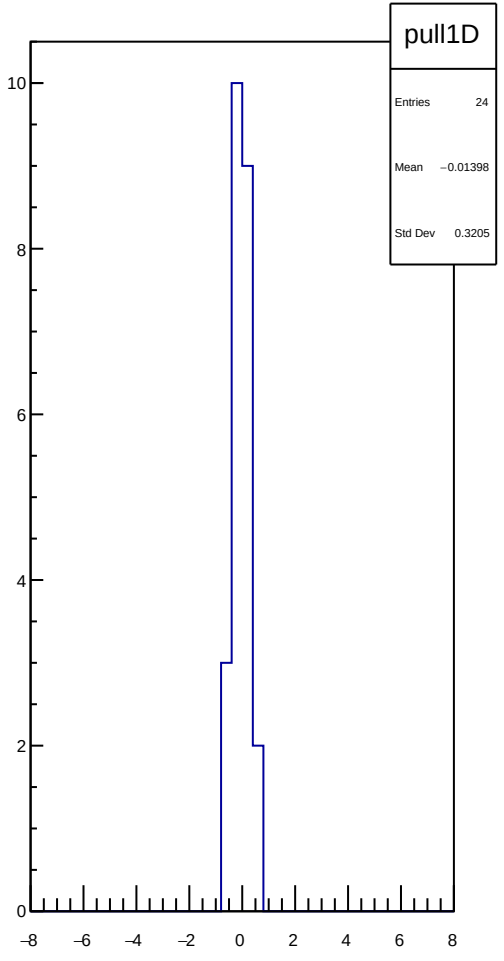

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 2.764 / 23
p0 21.47 ± 2.963
60
50
40
30
20
10
0
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 30.57
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

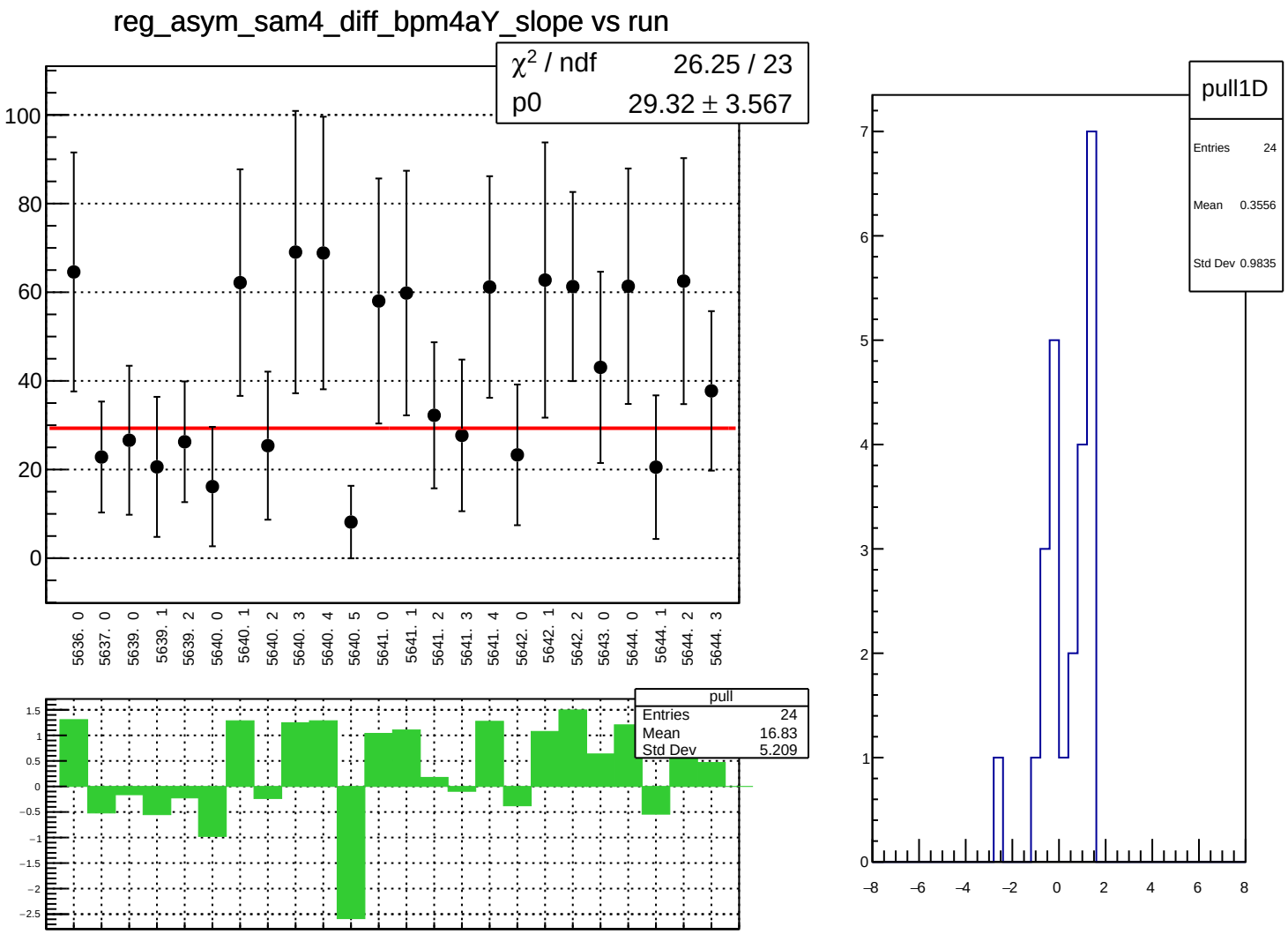

pull1D
Entries 24
Mean 0.06385
Std Dev 0.3333
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

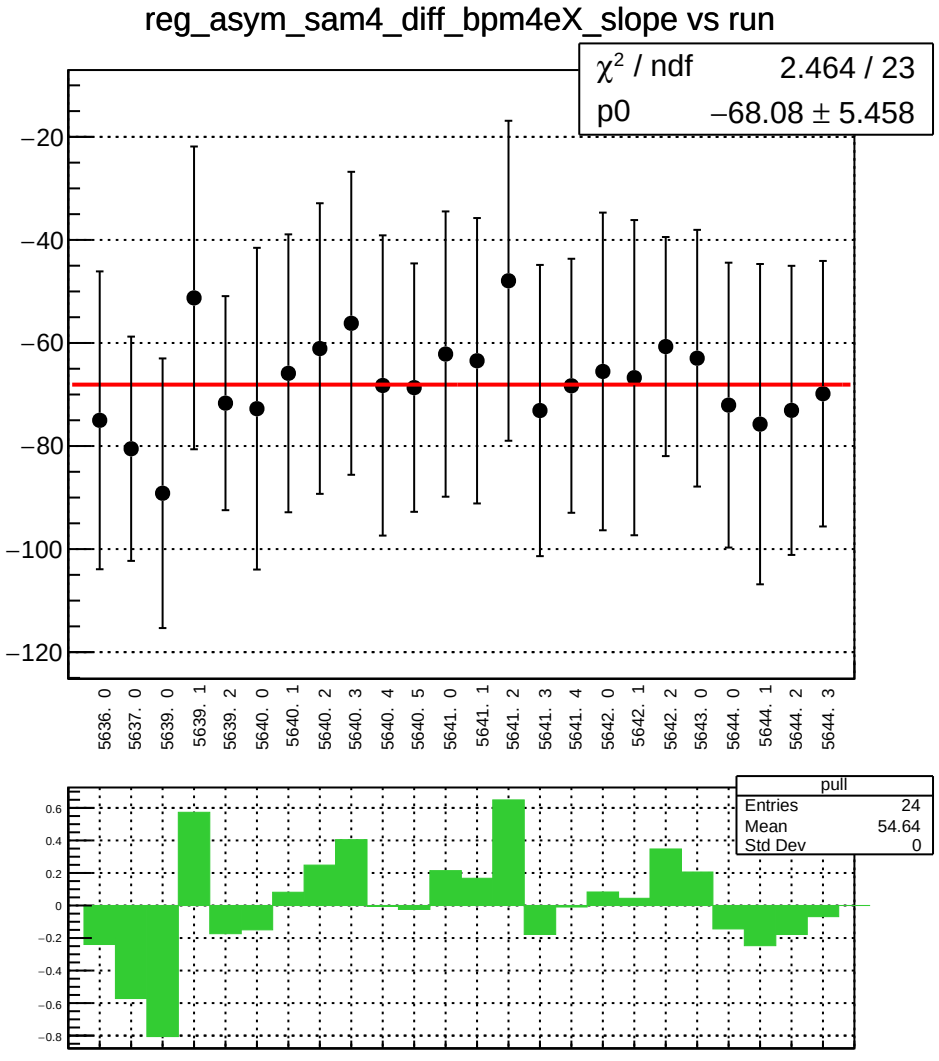

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 1.277 / 23
p0 −1.202 ± 0.1463
0
−0.5
−1
−1.5
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −697.4
Std Dev 0
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2

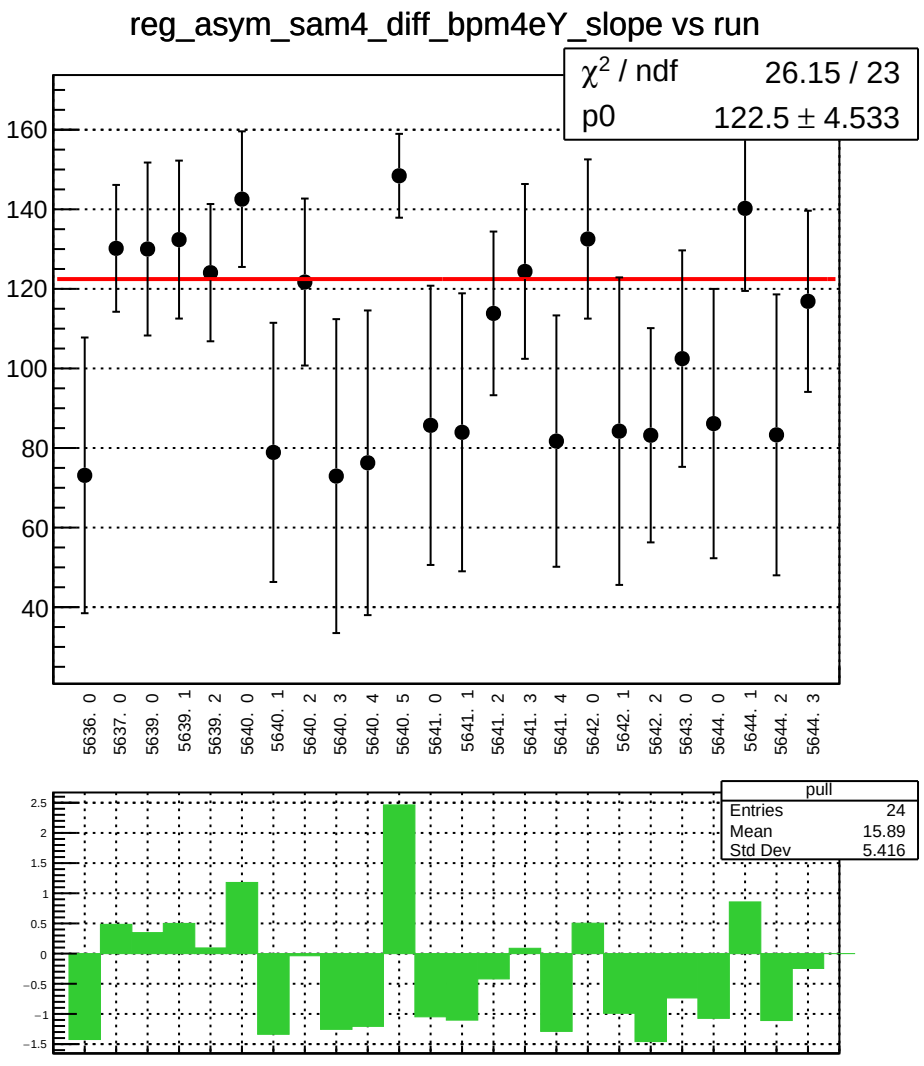

pull1D
Entries 24
Mean 0.001194
Std Dev 0.2306
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

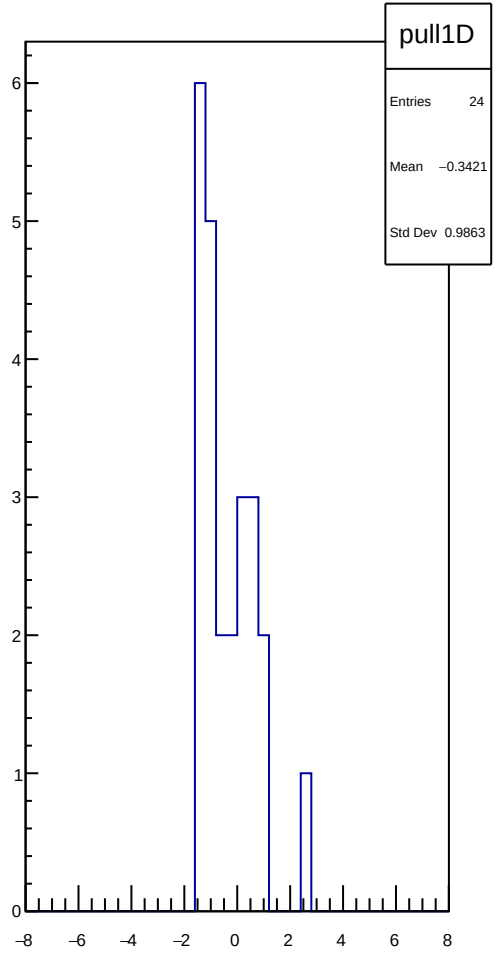

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 2.47 / 23
p0 −60.76 ± 6.29
0
−20
−40
−60
−80
−100
−120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 69.41
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

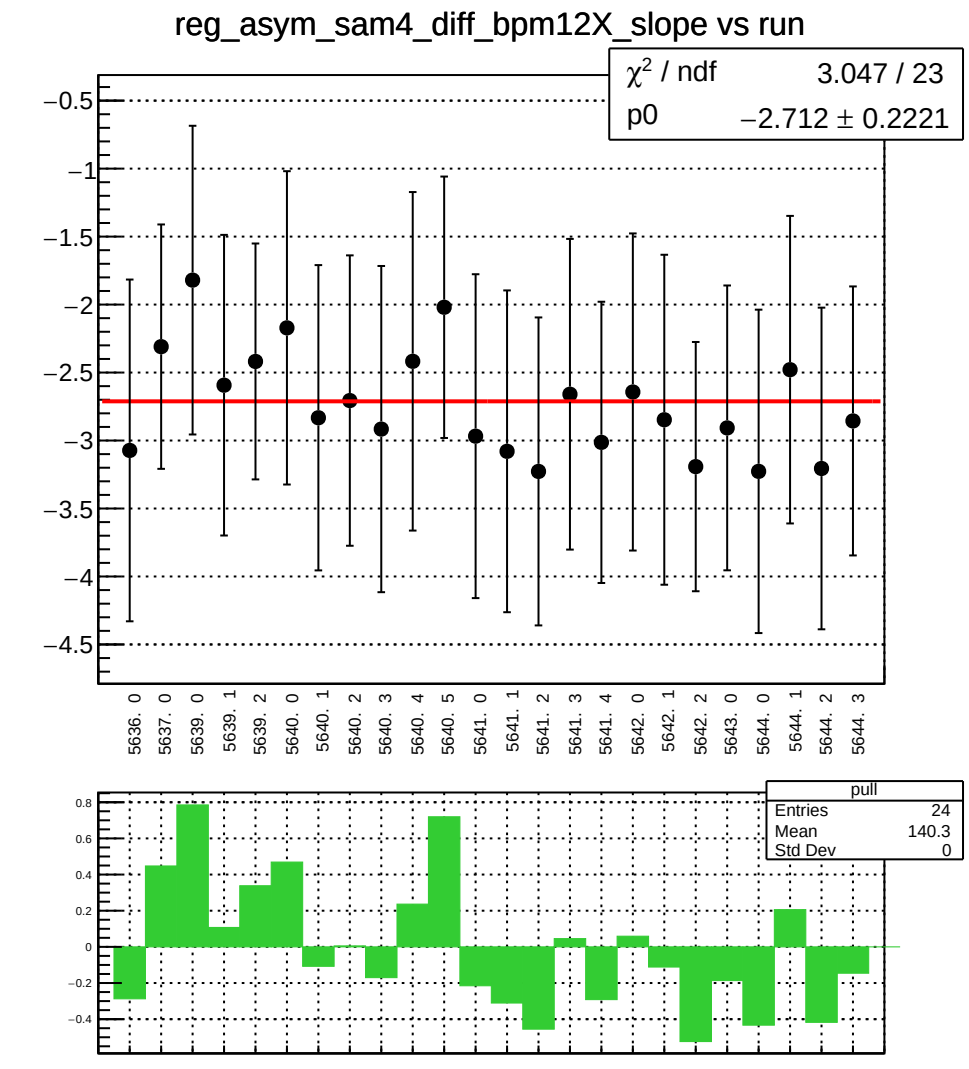

pull1D
Entries 24
Mean −0.01398
Std Dev 0.3205
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

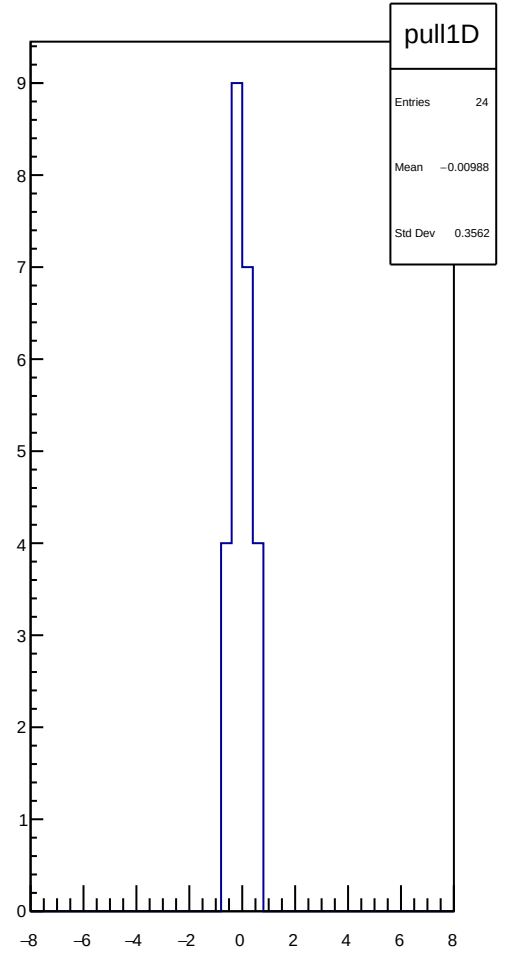

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 26.25 / 23
p0 29.32 ± 3.567
100
80
60
40
20
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 16.83
Std Dev 5.209
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean 0.3556
Std Dev 0.9835
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

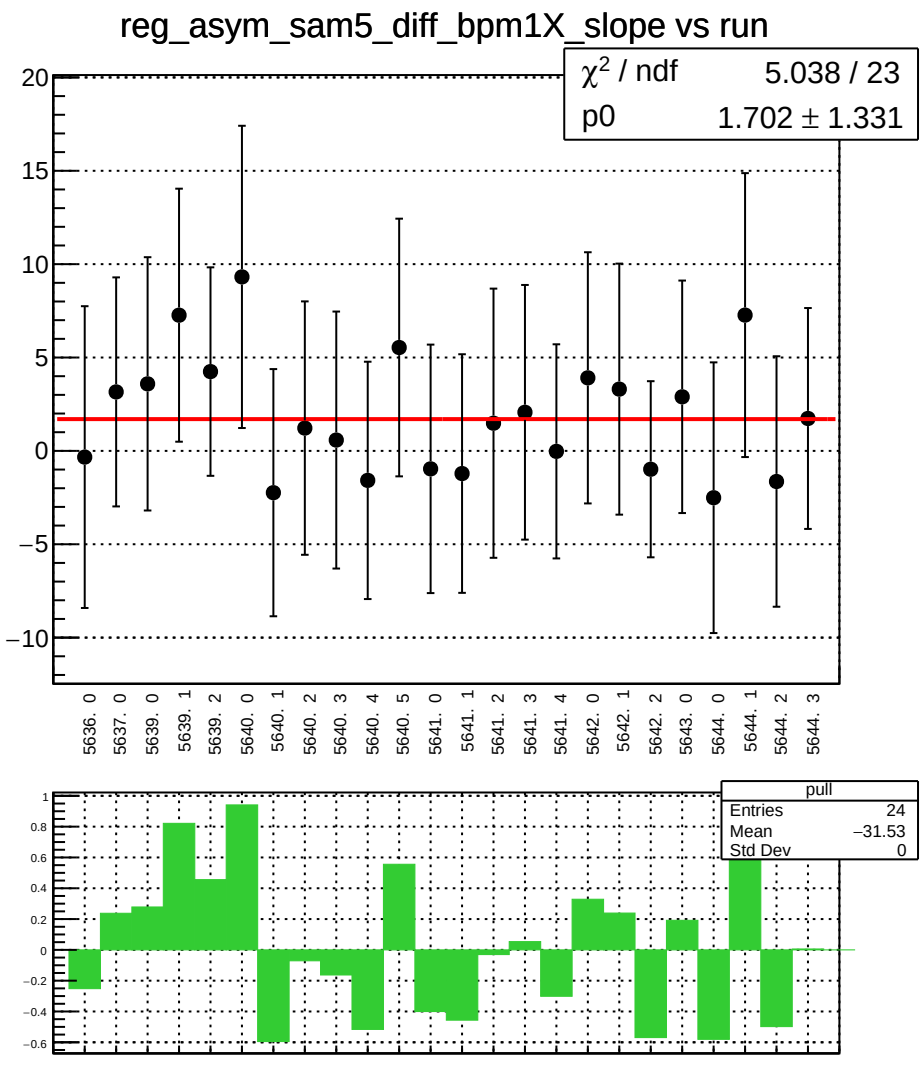

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 2.464 / 23
p0 −68.08 ± 5.458
−20
−40
−60
−80
−100
−120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 54.64
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean 0.009333
Std Dev 0.3203
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

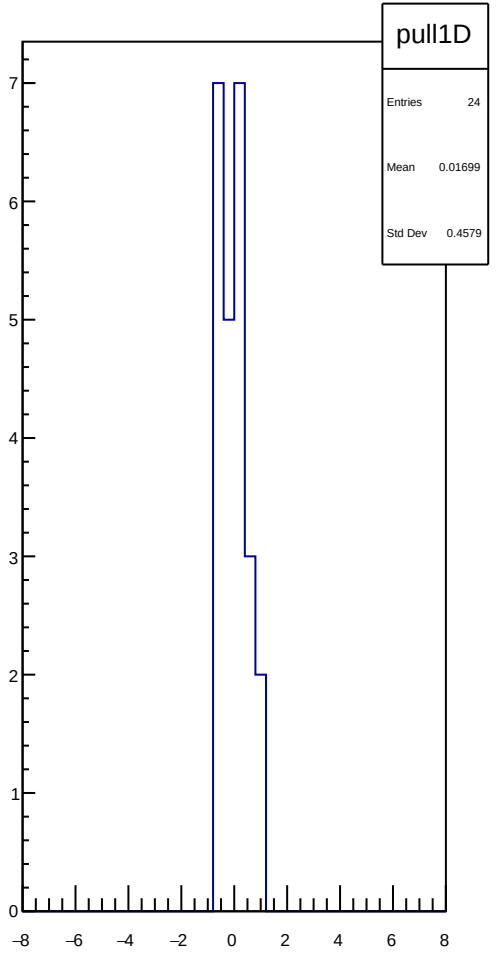

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 26.15 / 23
p0 122.5 ± 4.533
160
140
120
100
80
60
40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 15.89
Std Dev 5.416
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

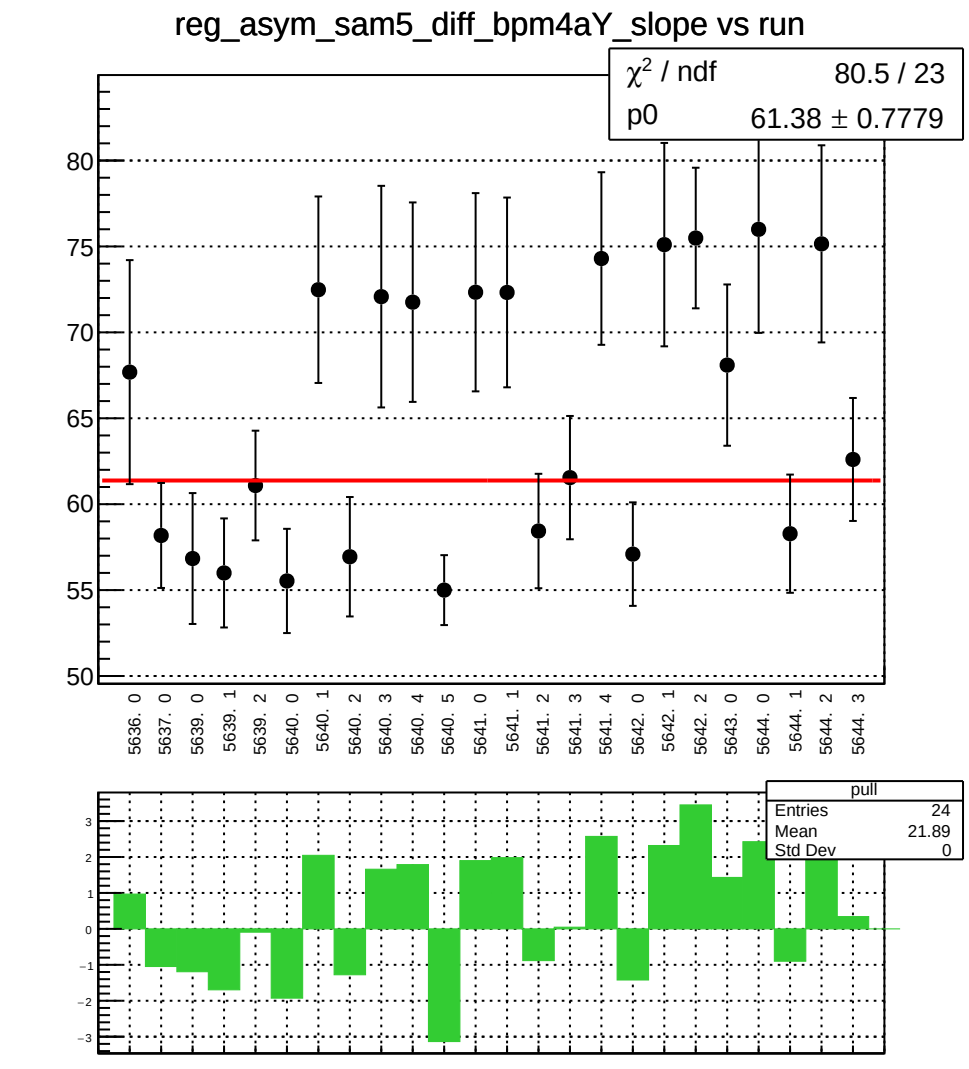

pull1D
Entries 24
Mean −0.3421
Std Dev 0.9863
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

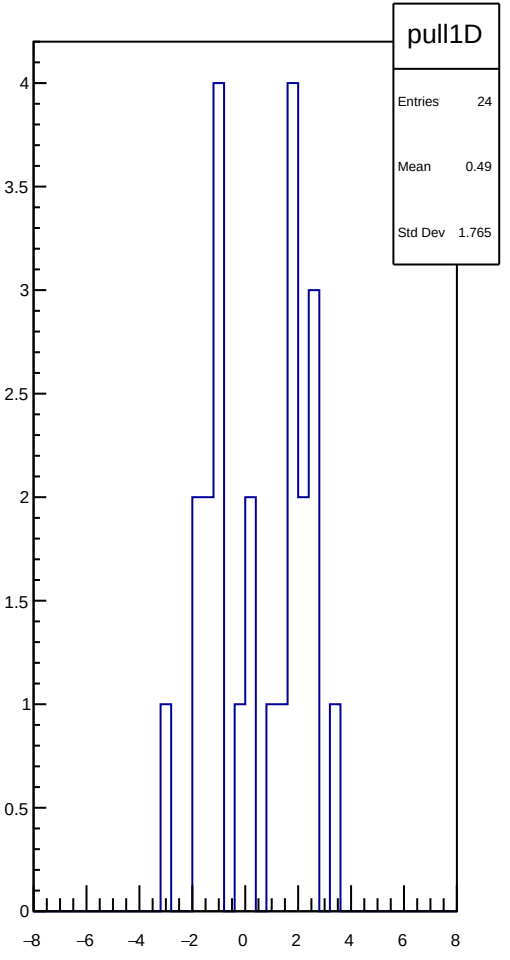

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 3.047 / 23
p0 −2.712 ± 0.2221
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
−4
−4.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 140.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4

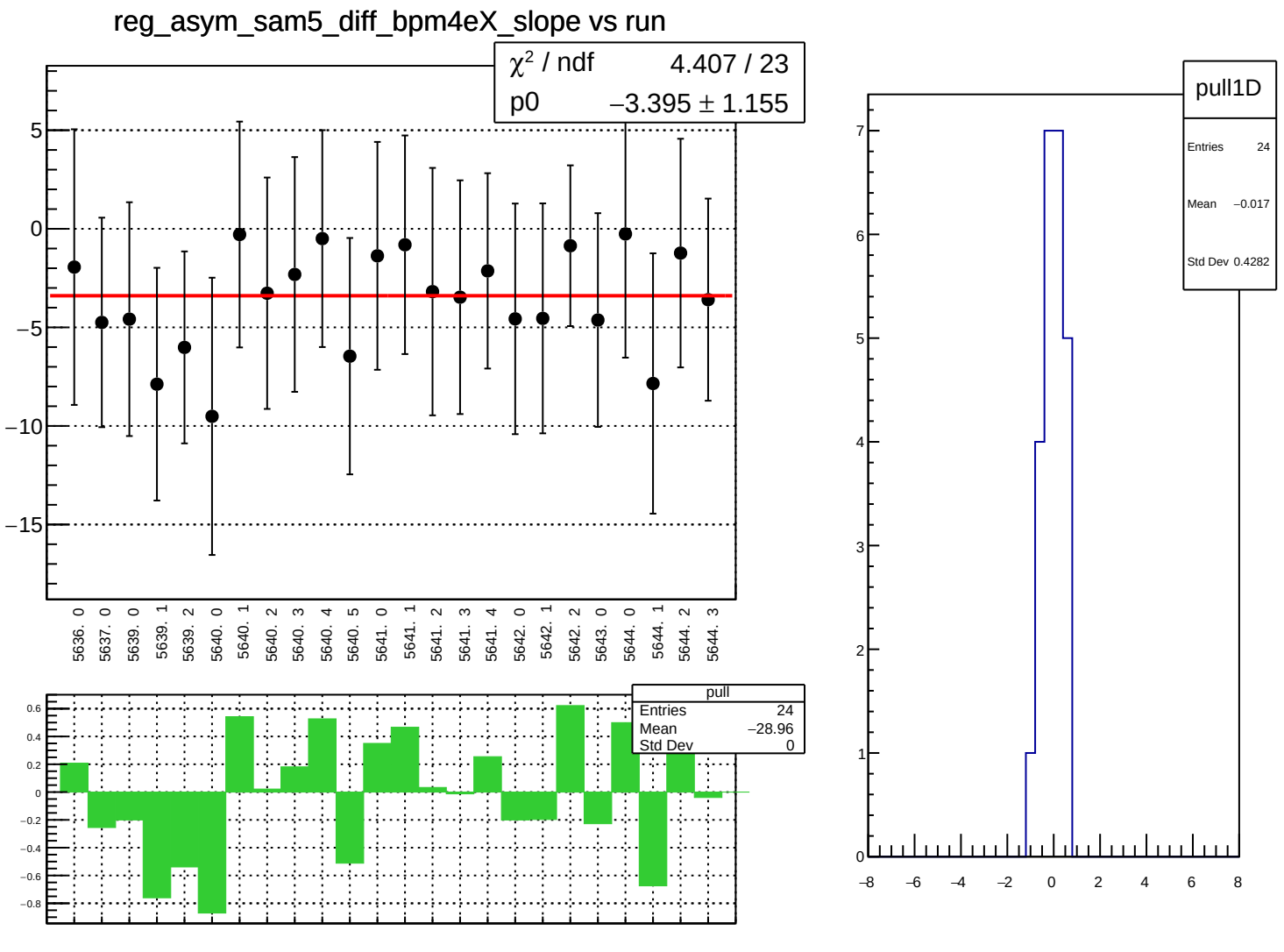

pull1D
Entries 24
Mean −0.00988
Std Dev 0.3562
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

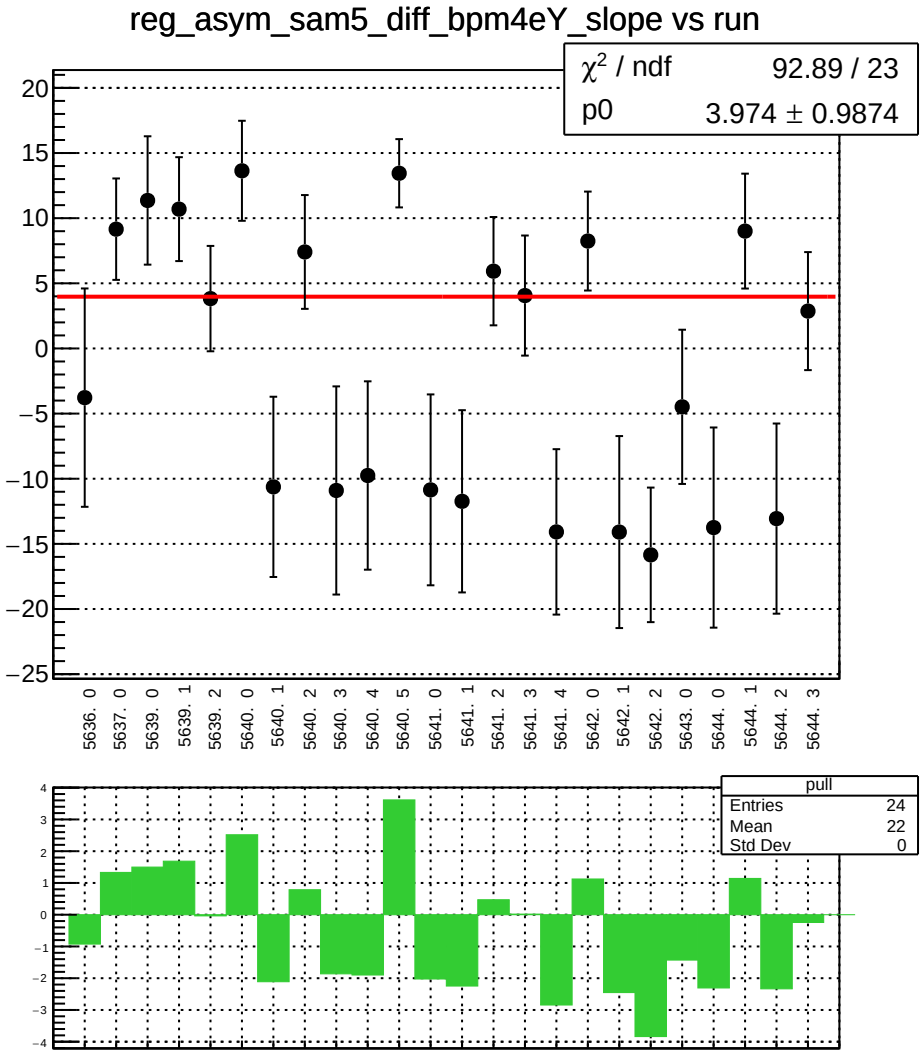

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 5.038 / 23
p0 1.702 ± 1.331
20
15
10
5
0
−5
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −31.53
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

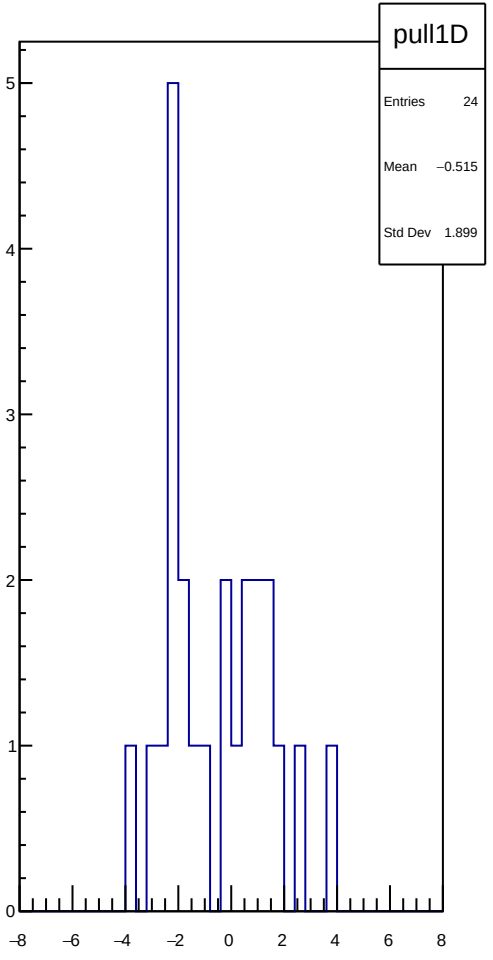

pull1D
Entries 24
Mean 0.01699
Std Dev 0.4579
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

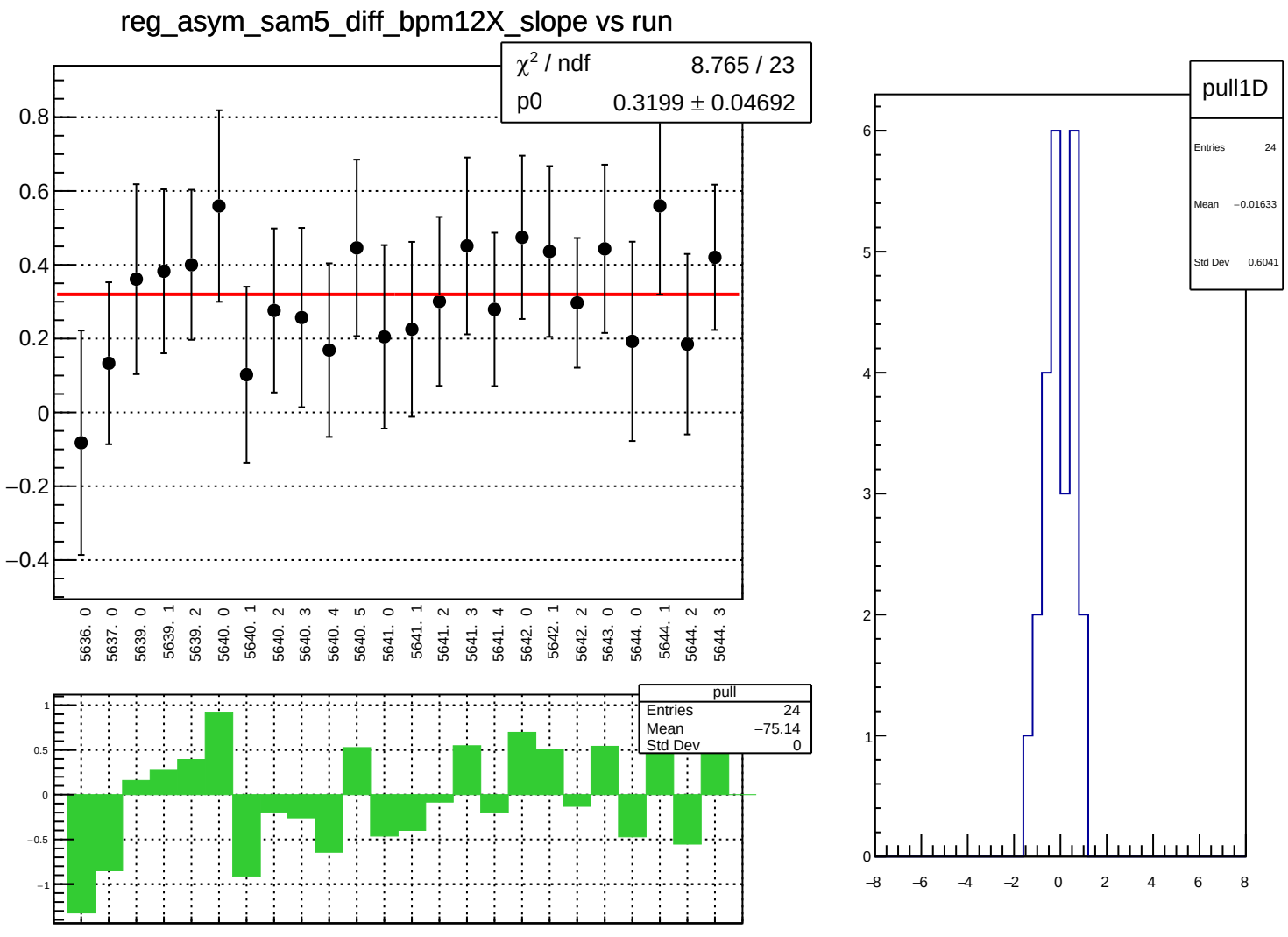

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 80.5 / 23
p0 61.38 ± 0.7779
80
75
70
65
60
55
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 21.89
Std Dev 0
3
2
1
0
−1
−2
−3

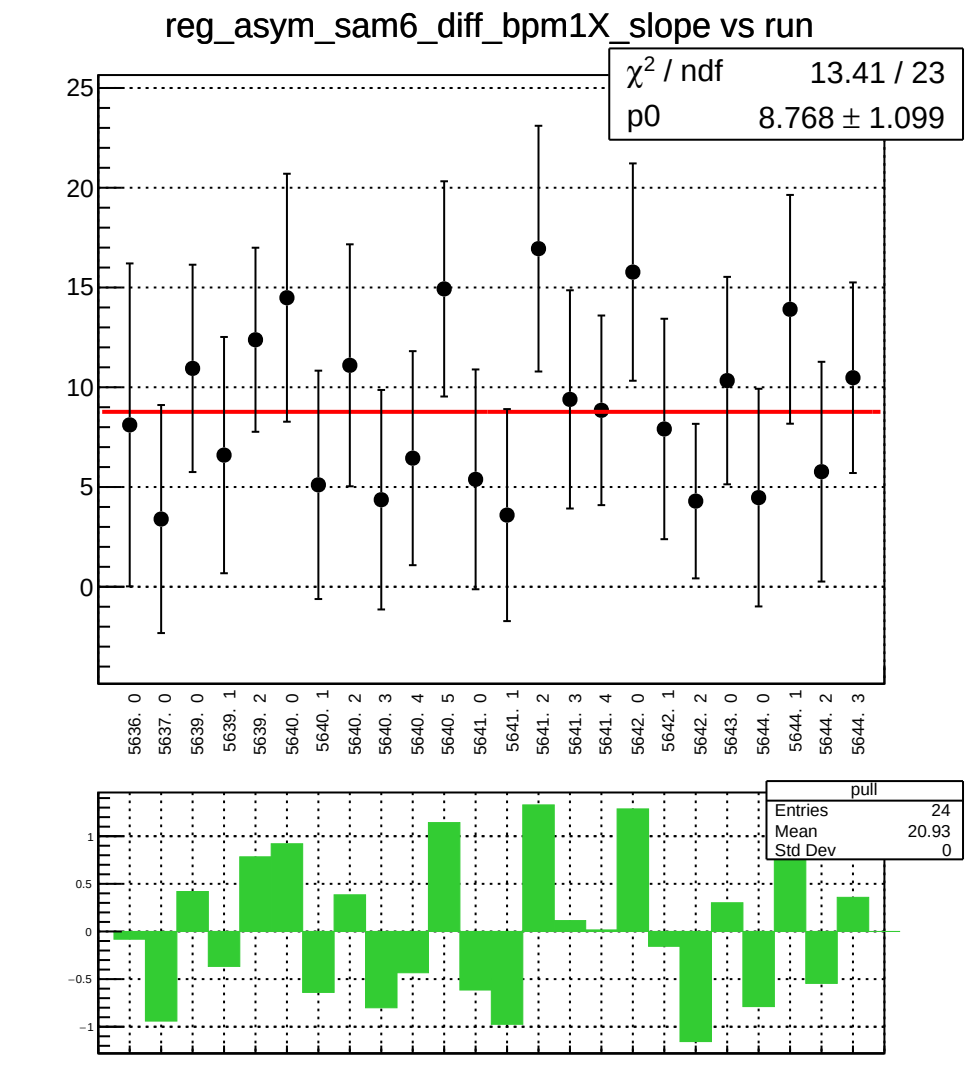

pull1D
Entries 24
Mean 0.49
Std Dev 1.765
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

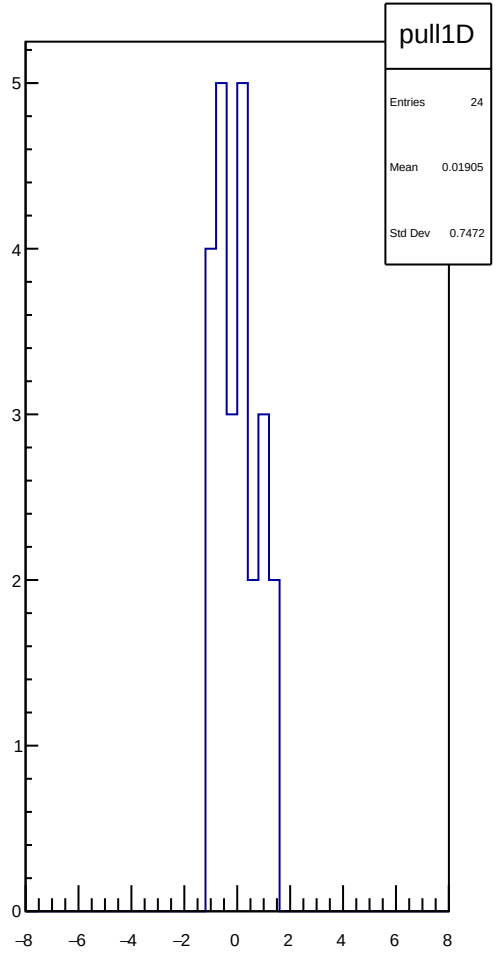

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 4.407 / 23
p0 −3.395 ± 1.155
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −28.96
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean −0.017
Std Dev 0.4282
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

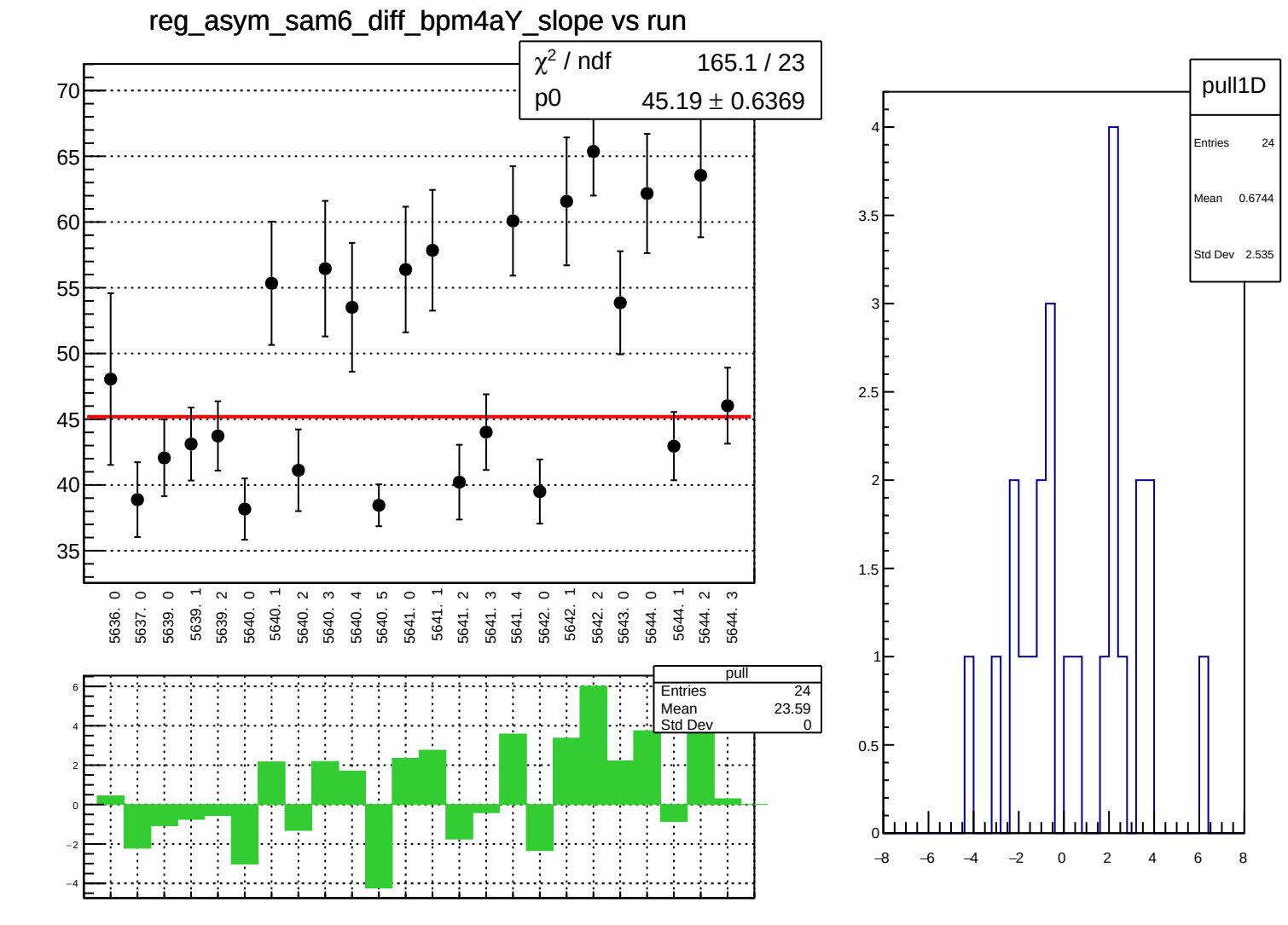

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 92.89 / 23
p0 3.974 ± 0.9874
20
15
10
5
0
−5
−10
−15
−20
−25
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 22
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

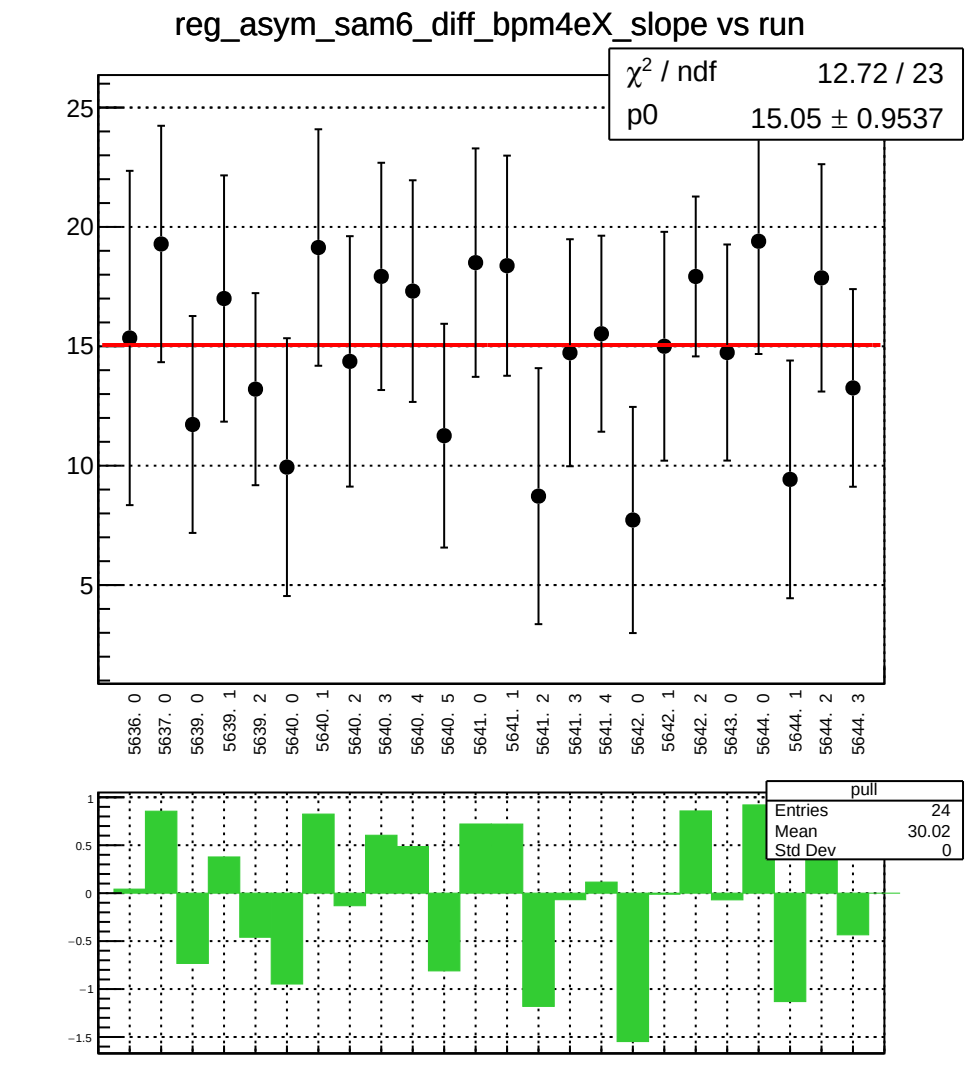

pull1D
Entries 24
Mean −0.515
Std Dev 1.899
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

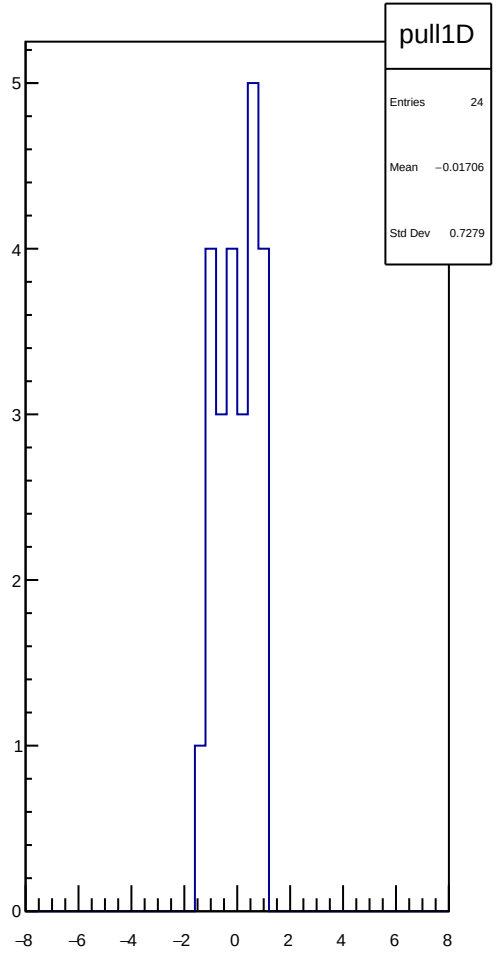

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 8.765 / 23
p0 0.3199 ± 0.04692
0.8
0.6
0.4
0.2
0
−0.2
−0.4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −75.14
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.01633
Std Dev 0.6041
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

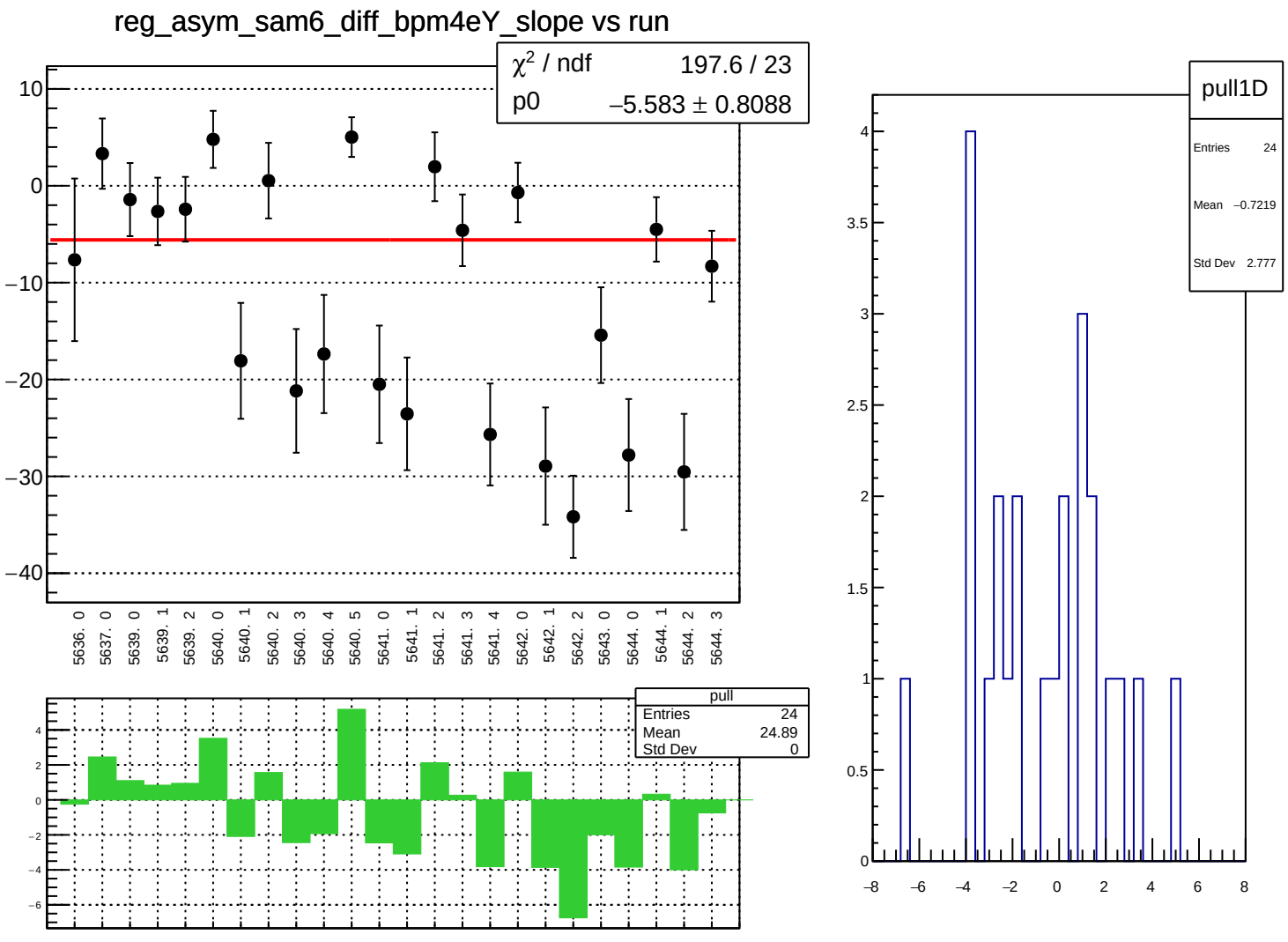

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 13.41 / 23
p0 8.768 ± 1.099
25
20
15
10
5
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 20.93
Std Dev 0
1
0.5
0
−0.5
−1

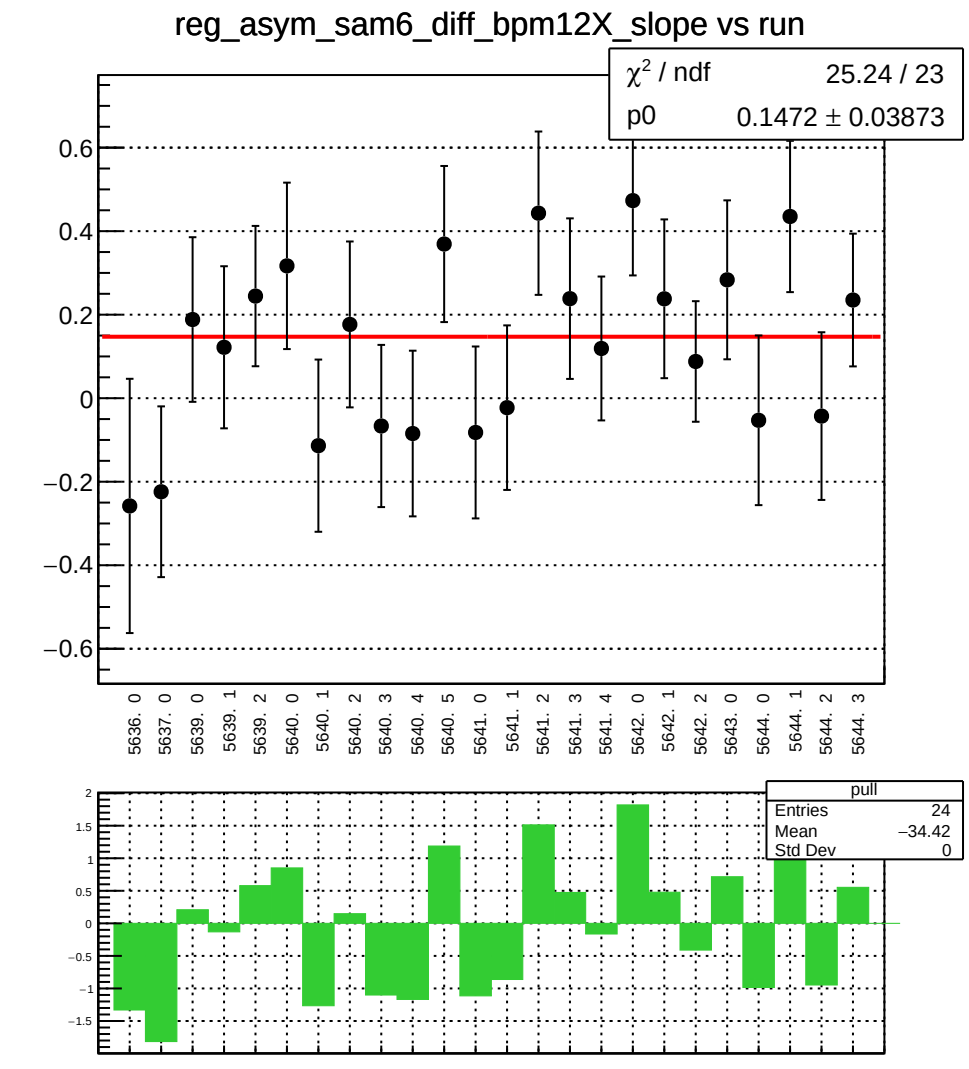

pull1D
Entries 24
Mean 0.01905
Std Dev 0.7472
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

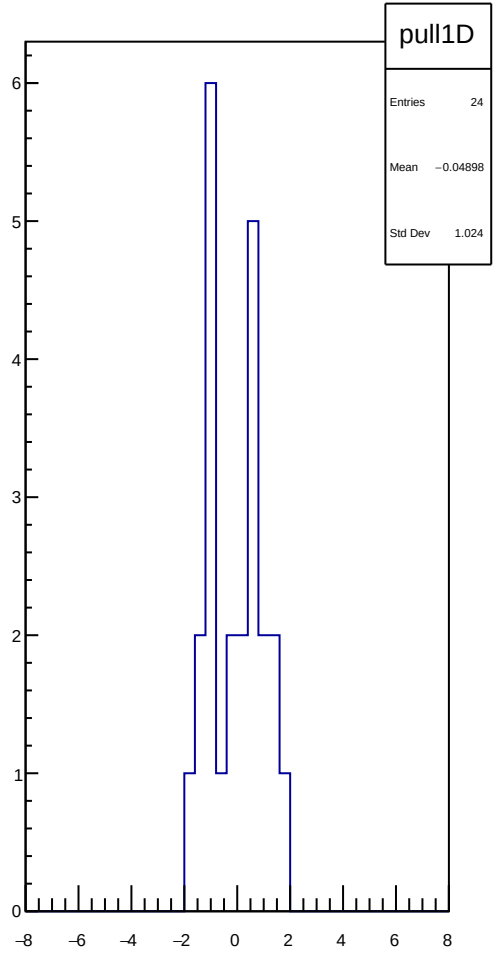

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 165.1 / 23
p0 45.19 ± 0.6369
70
65
60
55
50
45
40
35
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 23.59
Std Dev 0
6
4
2
0
−2
−4
pull1D
Entries 24
Mean 0.6744
Std Dev 2.535
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

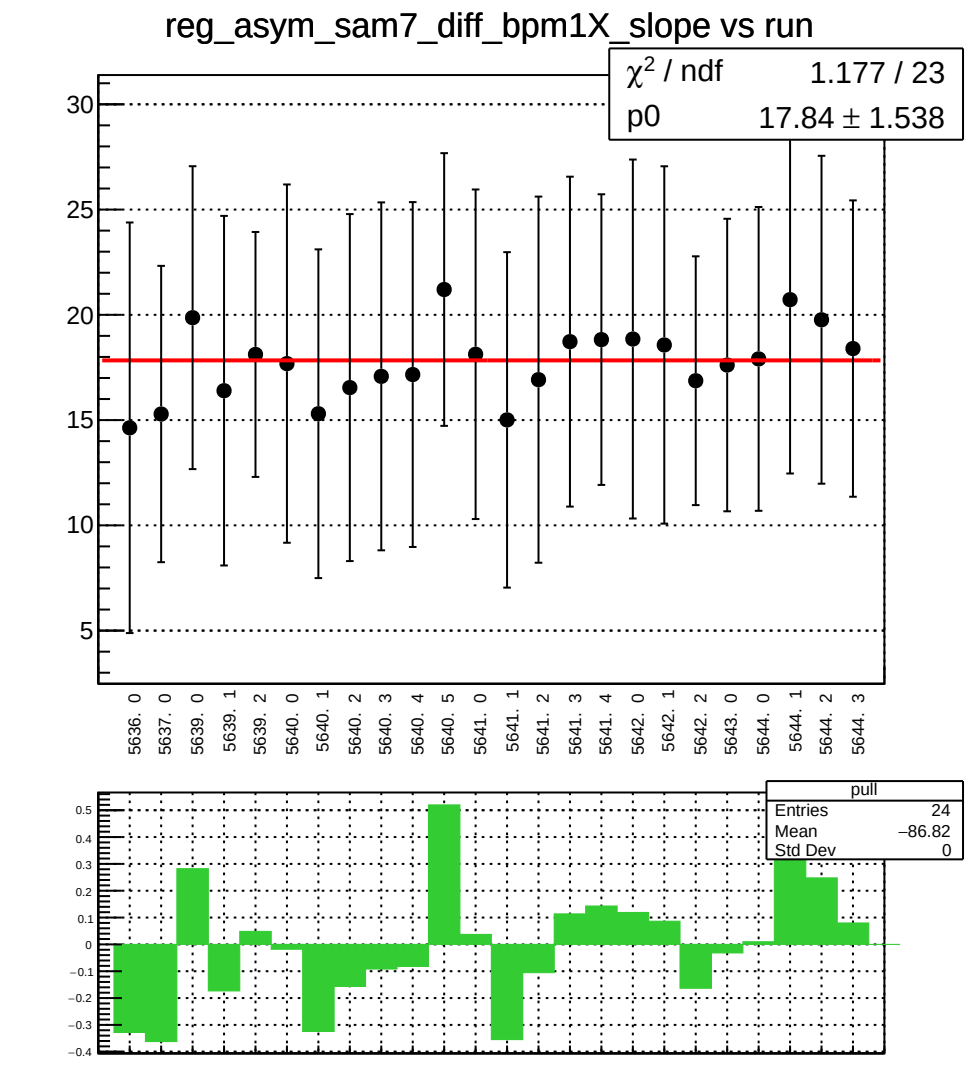

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 12.72 / 23
p0 15.05 ± 0.9537
25
20
15
10
5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 30.02
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

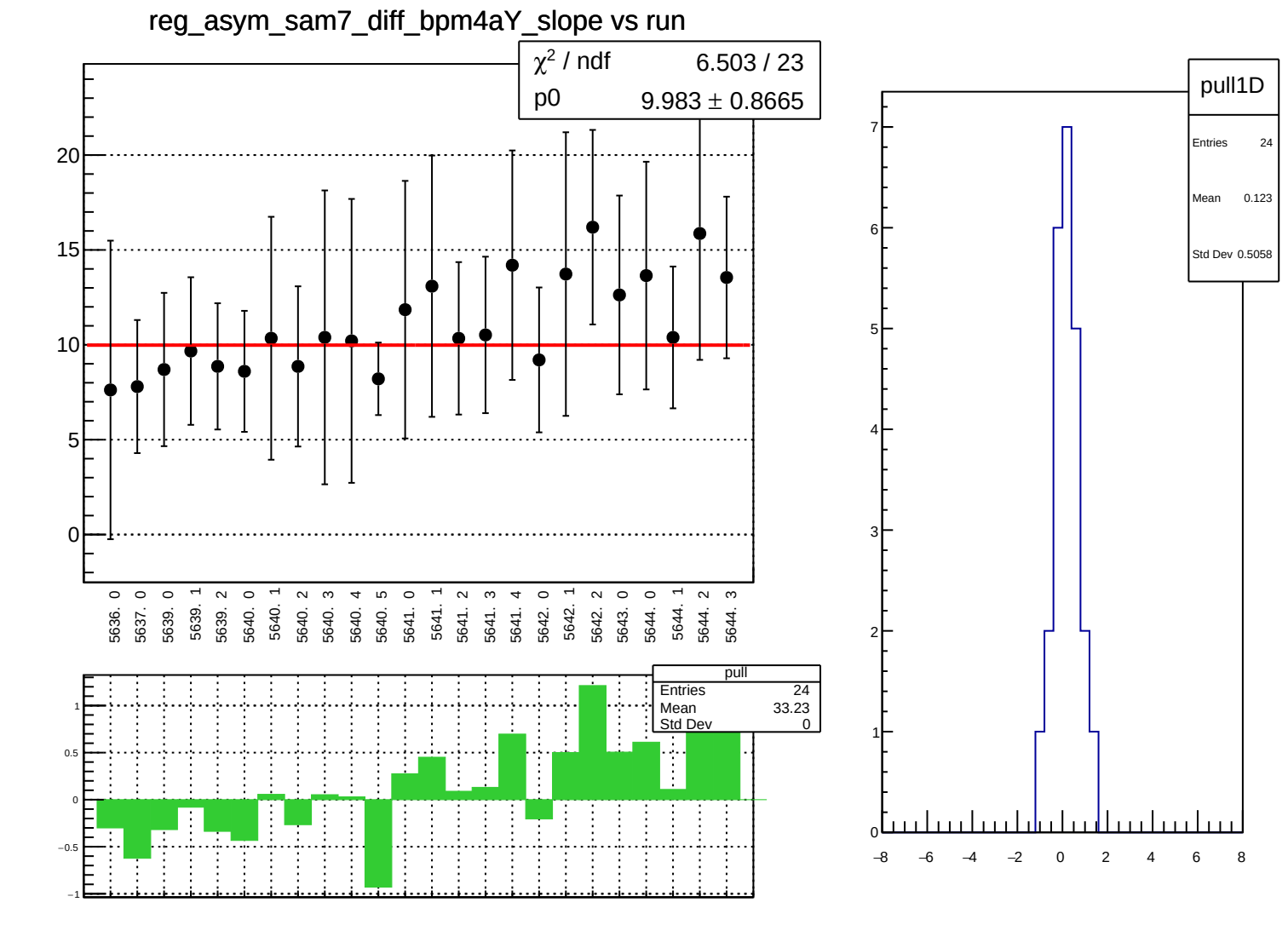

pull1D
Entries 24
Mean −0.01706
Std Dev 0.7279
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

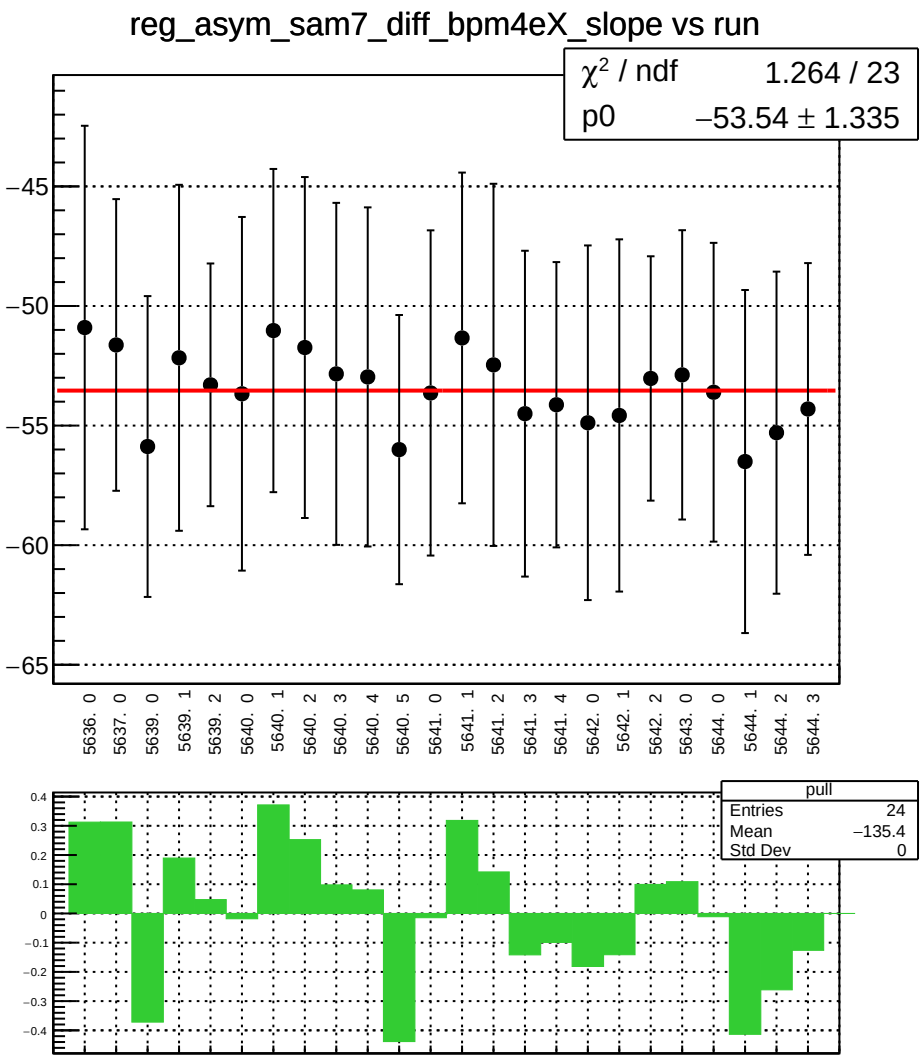

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 197.6 / 23
p0 −5.583 ± 0.8088
10
0
−10
−20
−30
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 24.89
Std Dev 0
pull1D
Entries 24
Mean −0.7219
Std Dev 2.777

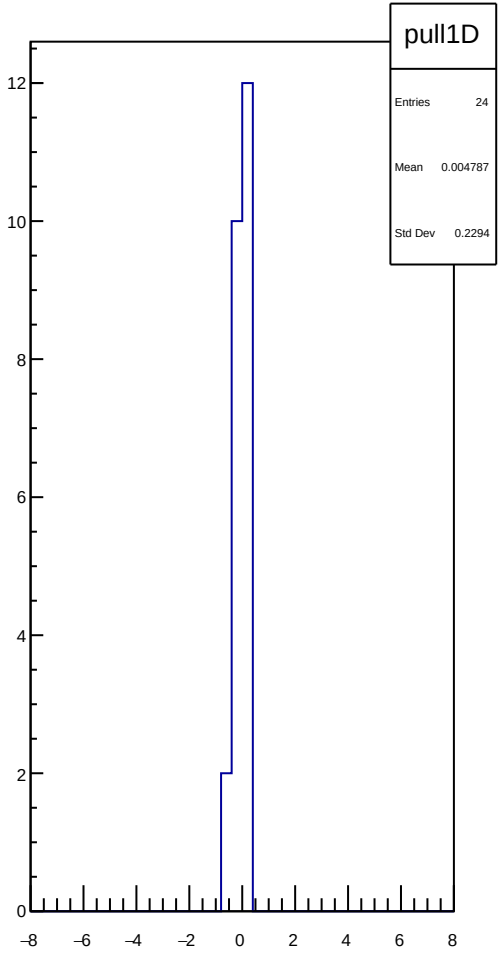

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 25.24 / 23
p0 0.1472 ± 0.03873
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −34.42
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

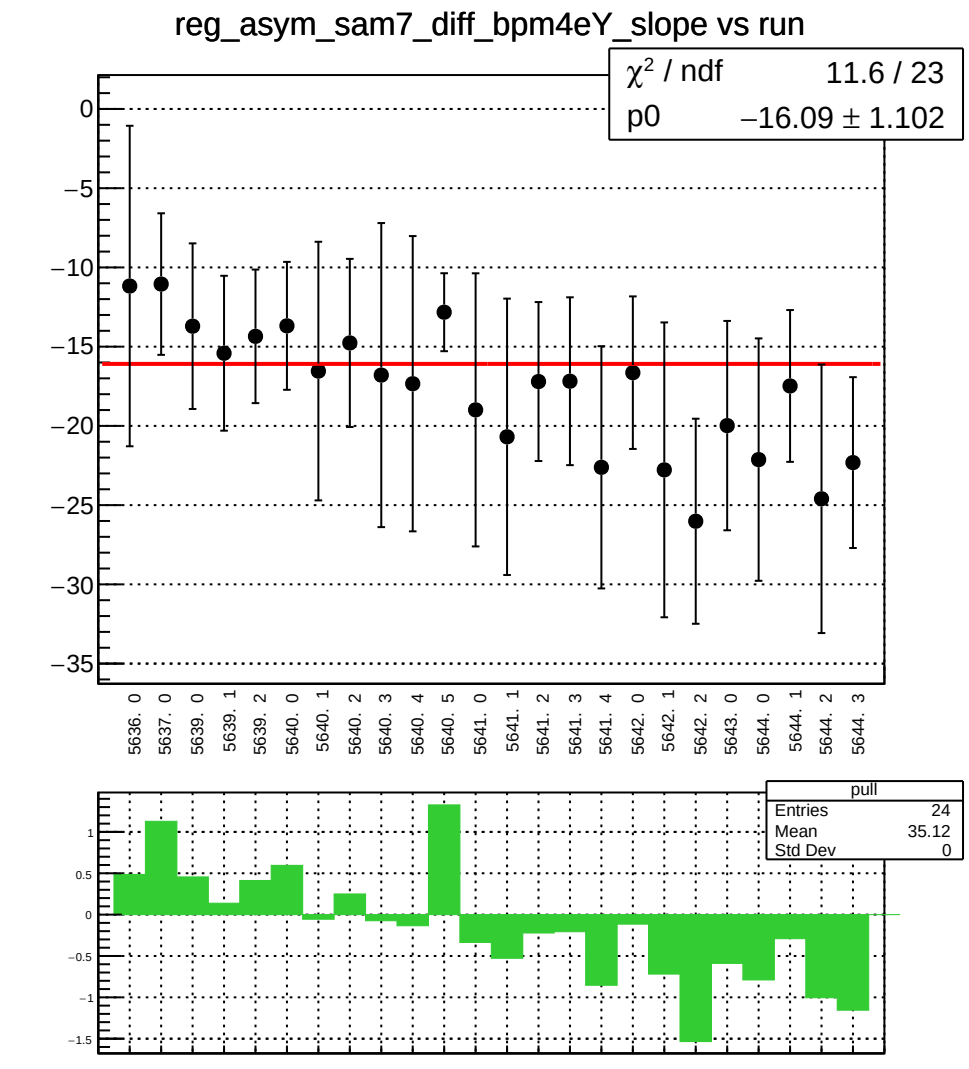

pull1D
Entries 24
Mean −0.04898
Std Dev 1.024
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

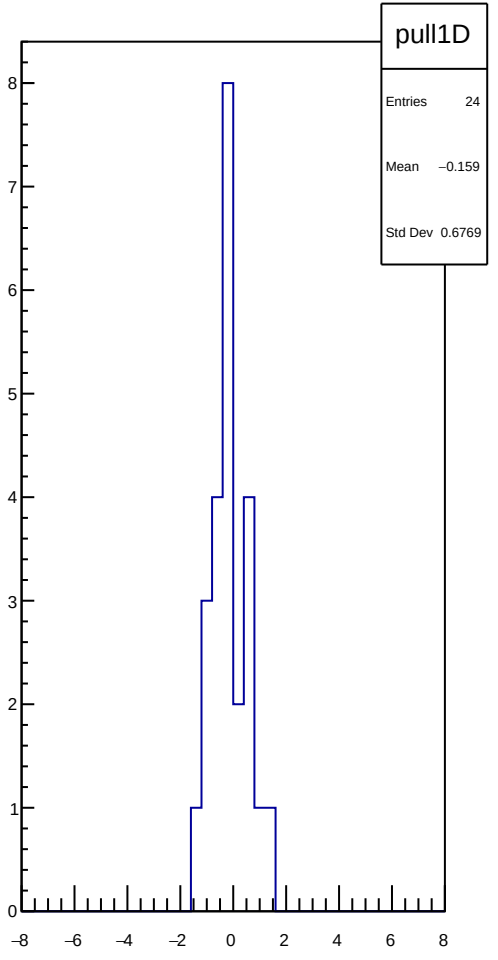

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 1.177 / 23
p0 17.84 ± 1.538
30
25
20
15
10
5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −86.82
Std Dev 0
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 24
Mean −0.006503
Std Dev 0.2214
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

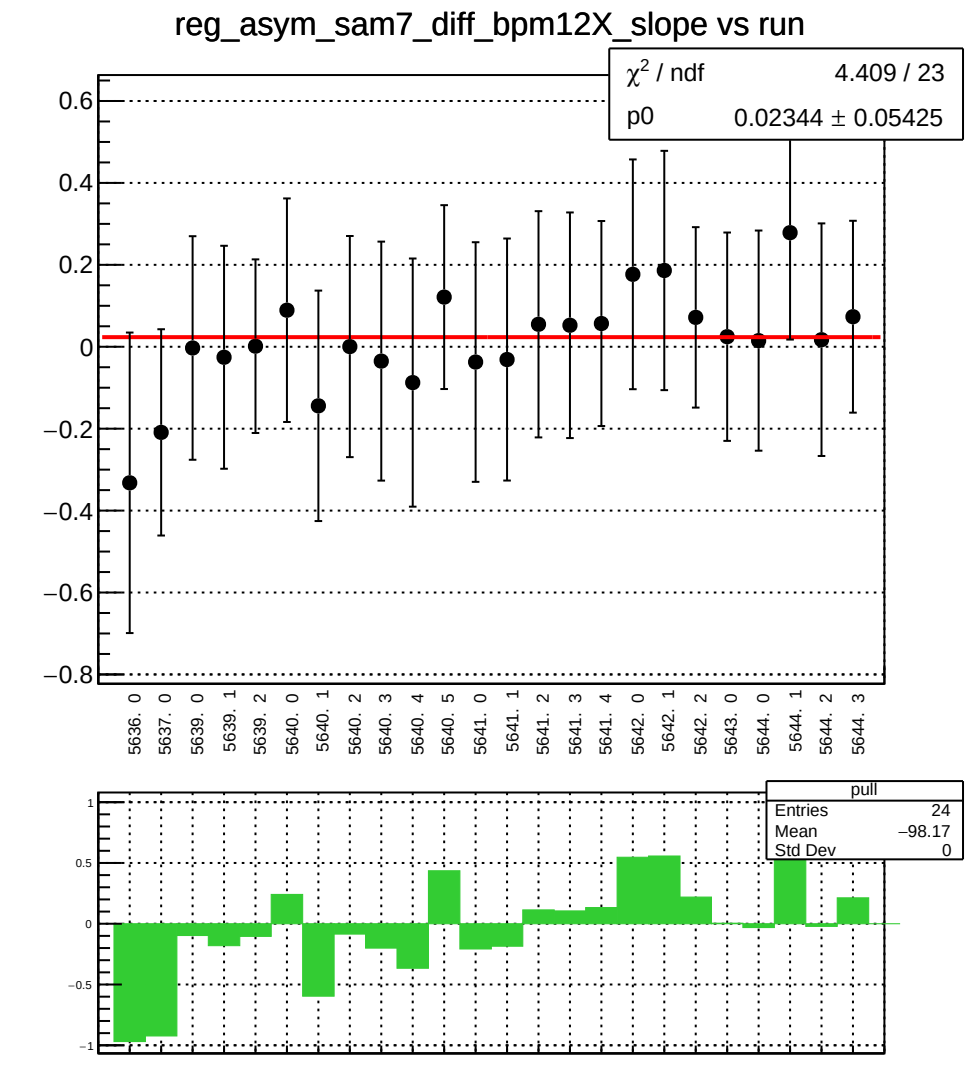

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 6.503 / 23
p0 9.983 ± 0.8665
pull
Entries 24
Mean 33.23
Std Dev 0
pull1D
Entries 24
Mean 0.123
Std Dev 0.5058
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

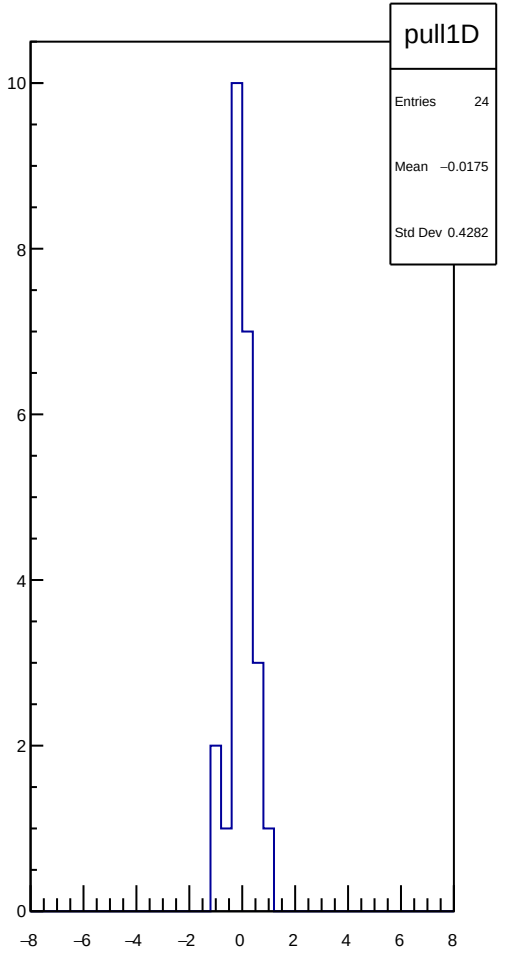

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 1.264 / 23
p0 −53.54 ± 1.335
−45
−50
−55
−60
−65
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −135.4
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

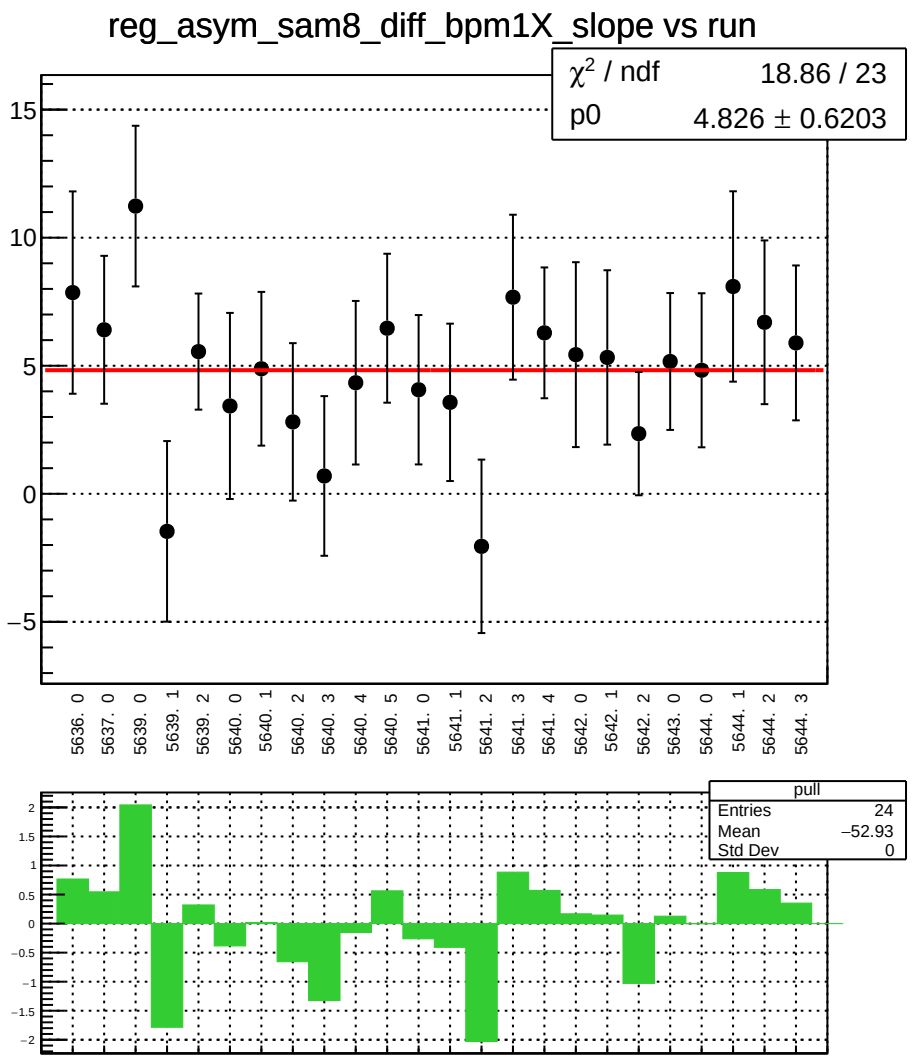

pull1D
Entries 24
Mean 0.004787
Std Dev 0.2294
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

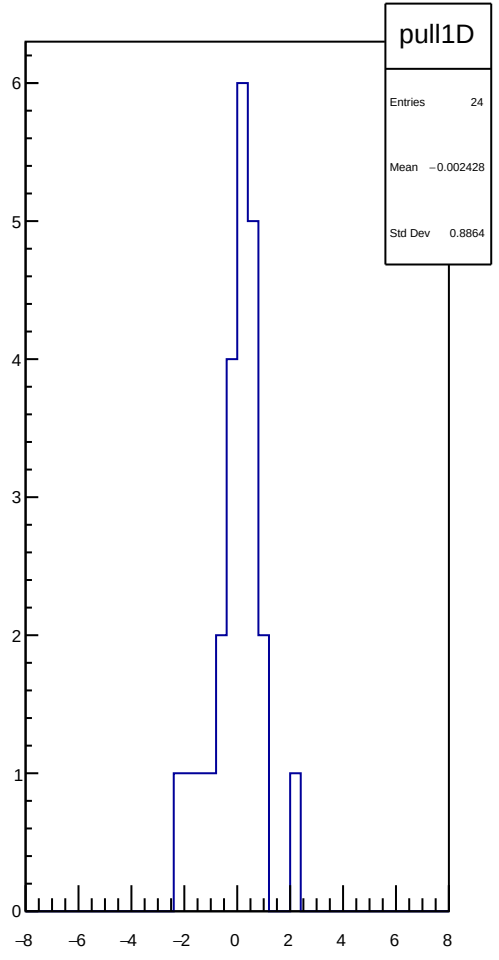

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 11.6 / 23
p0 −16.09 ± 1.102
0
−5
−10
−15
−20
−25
−30
−35
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 35.12
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

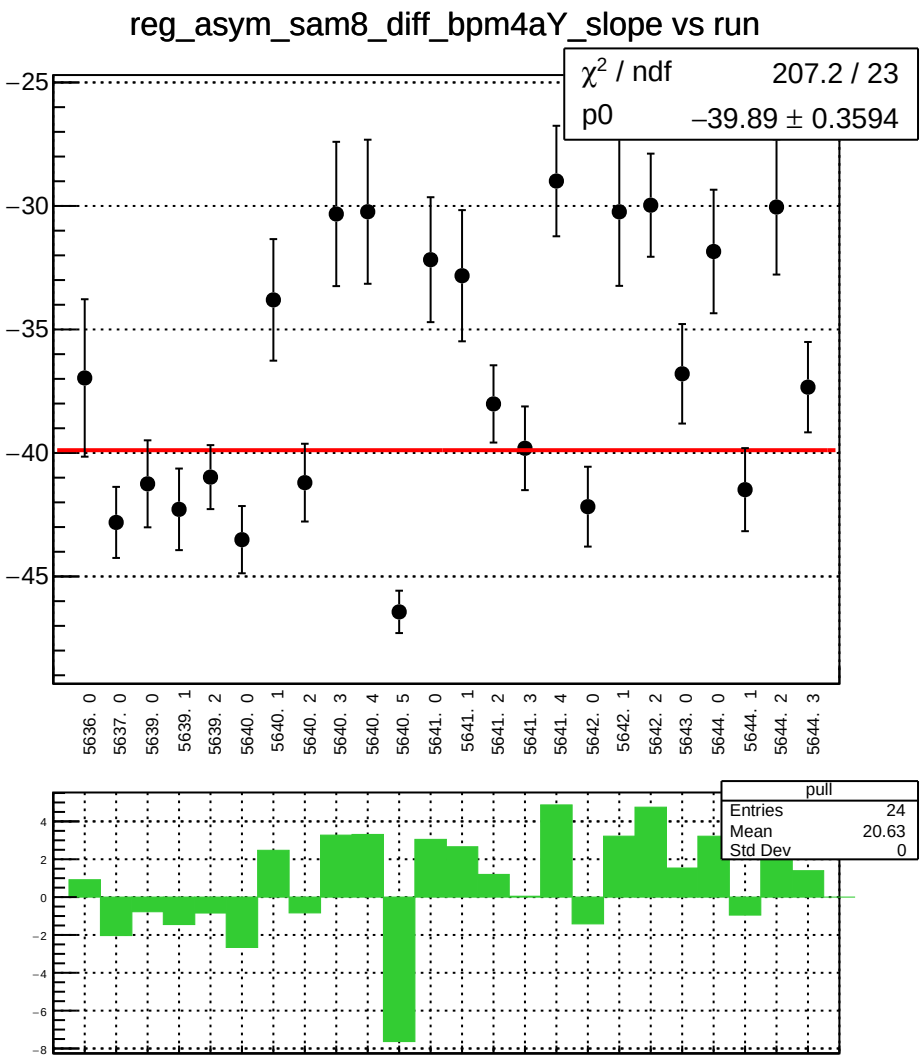

pull1D
Entries 24
Mean −0.159
Std Dev 0.6769
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

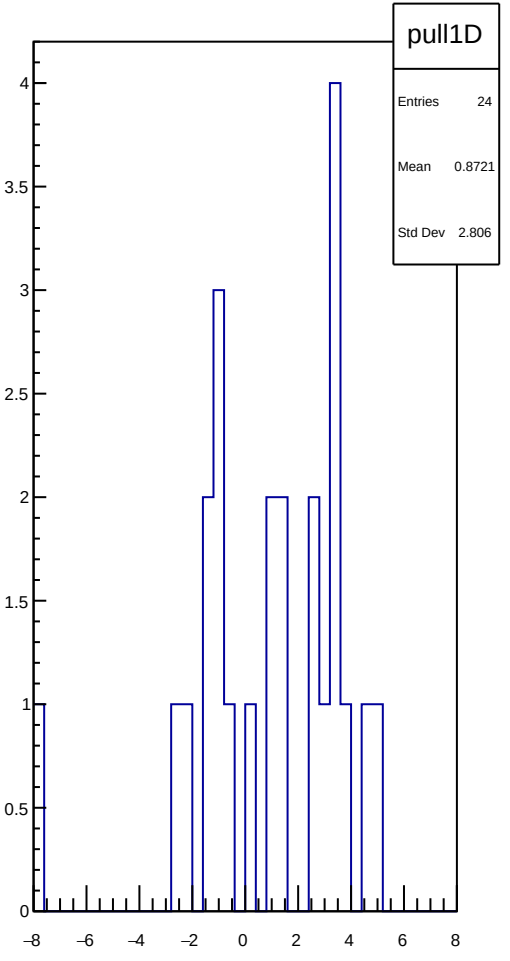

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 4.409 / 23
p0 0.02344 ± 0.05425
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −98.17
Std Dev 0
1
0.5
0
−0.5
−1

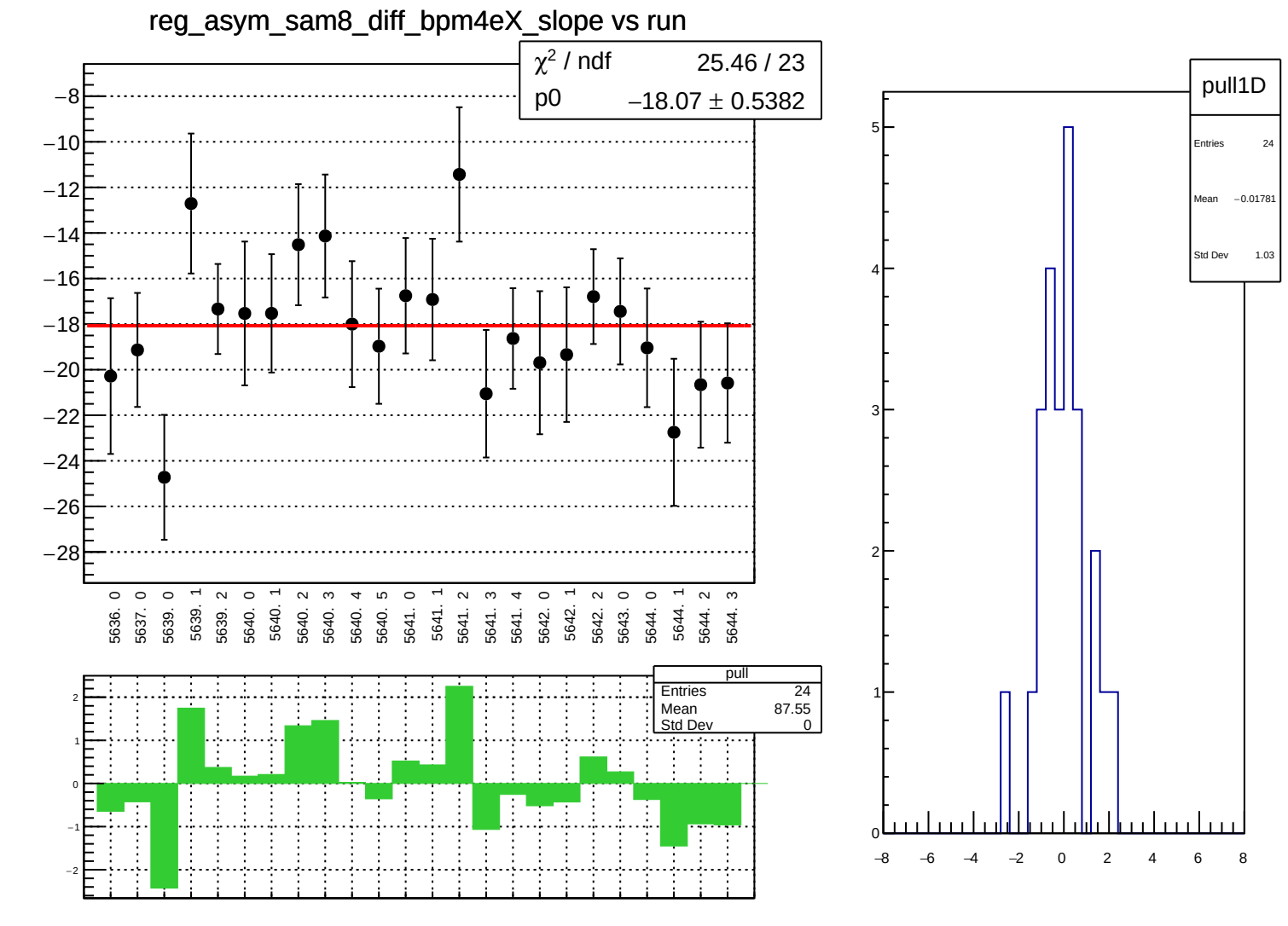

pull1D
Entries 24
Mean −0.0175
Std Dev 0.4282
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

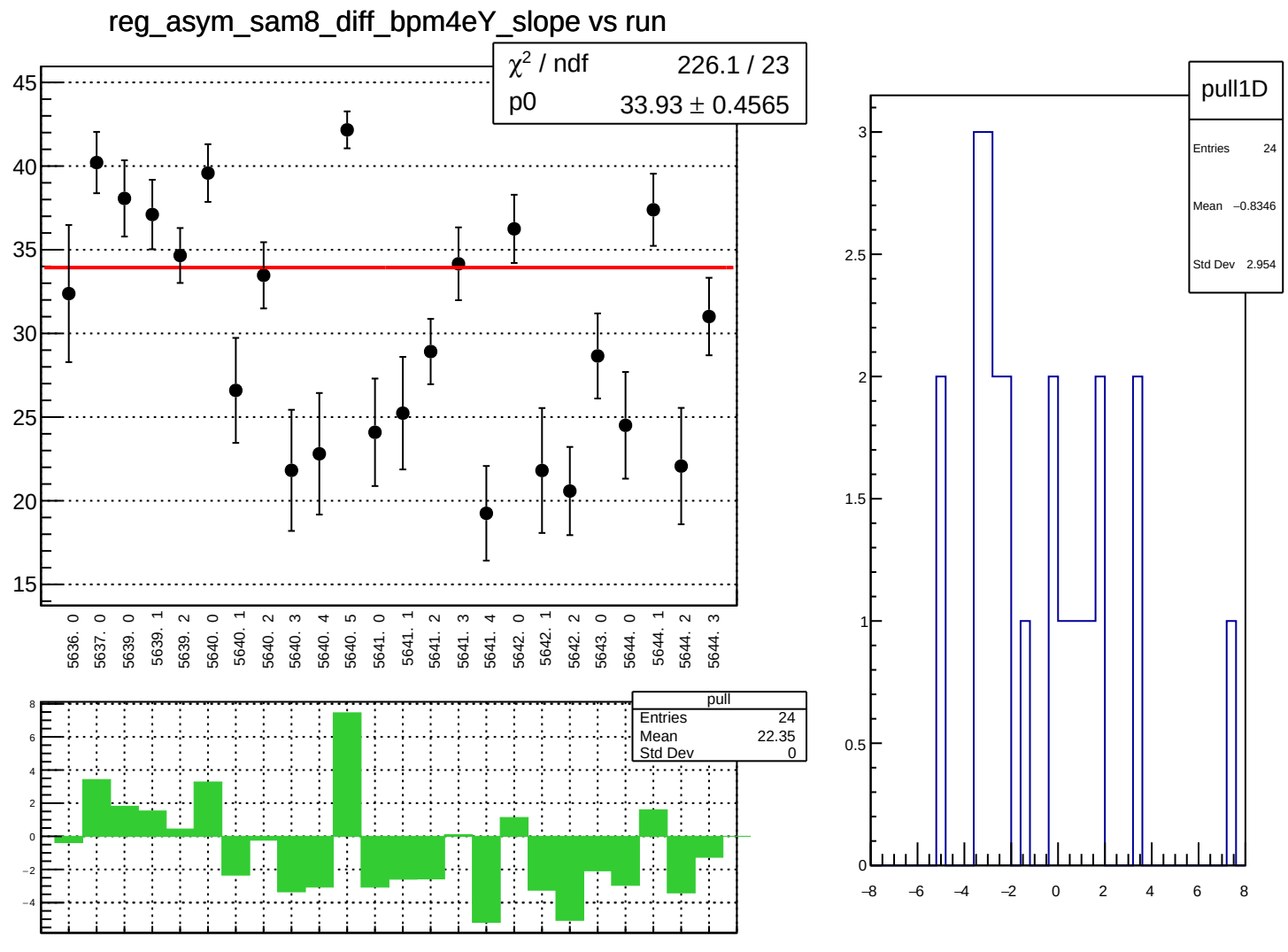

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 18.86 / 23
p0 4.826 ± 0.6203
15
10
5
0
−5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −52.93
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

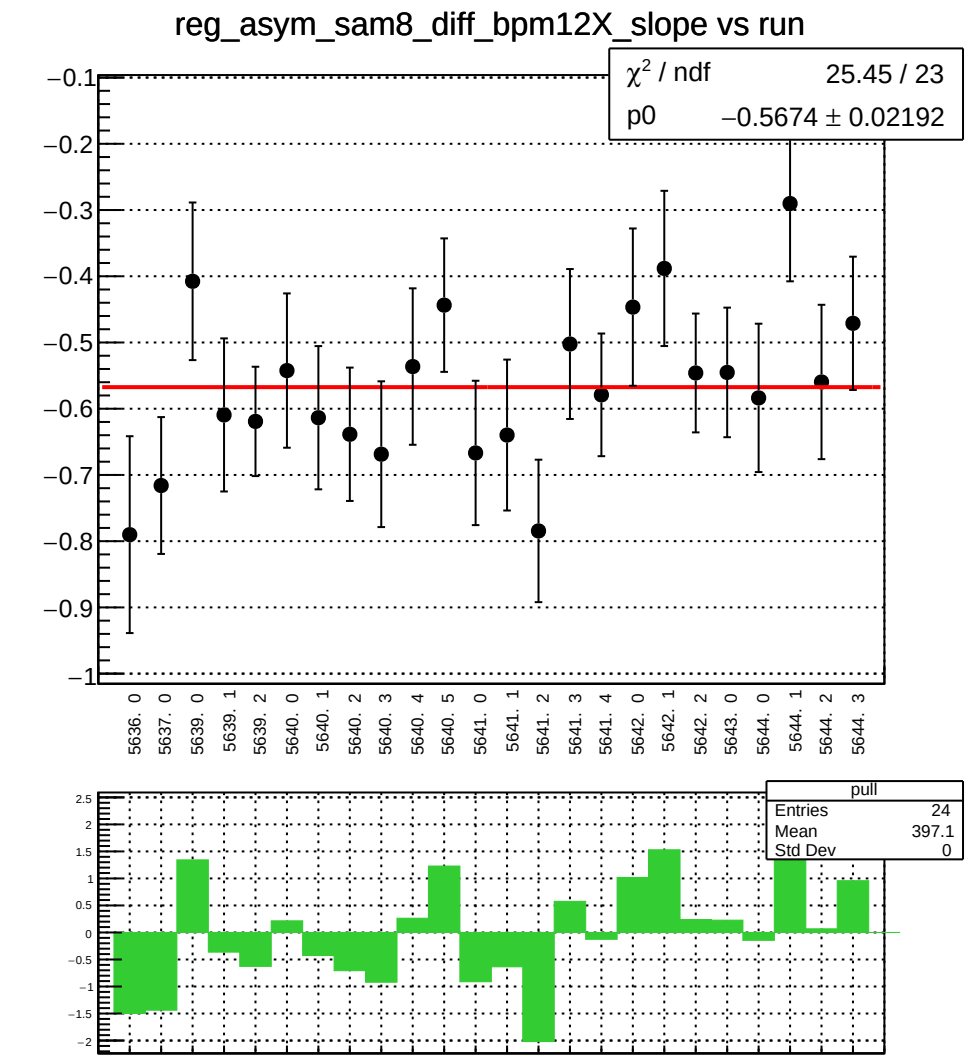

pull1D
Entries 24
Mean −0.002428
Std Dev 0.8864
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

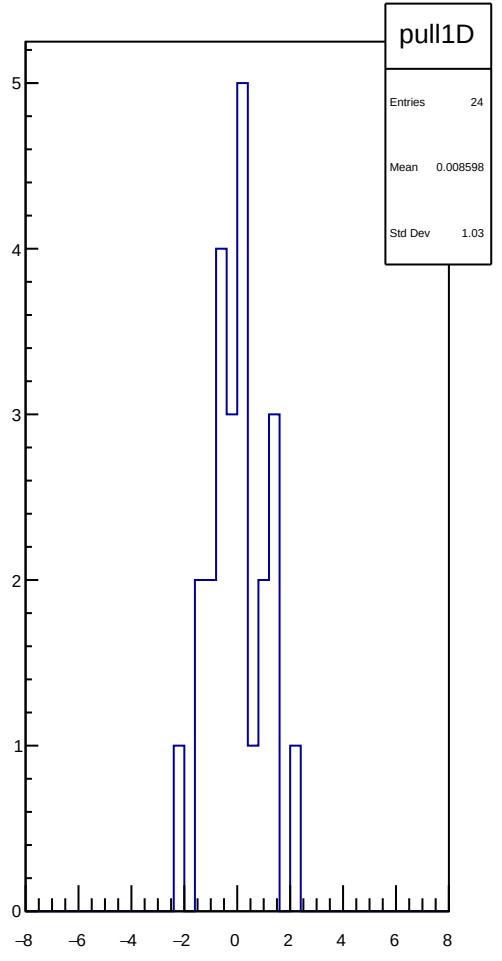

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 207.2 / 23
p0 −39.89 ± 0.3594
−25
−30
−35
−40
−45
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 20.63
Std Dev 0
4
2
0
−2
−4
−6
−8

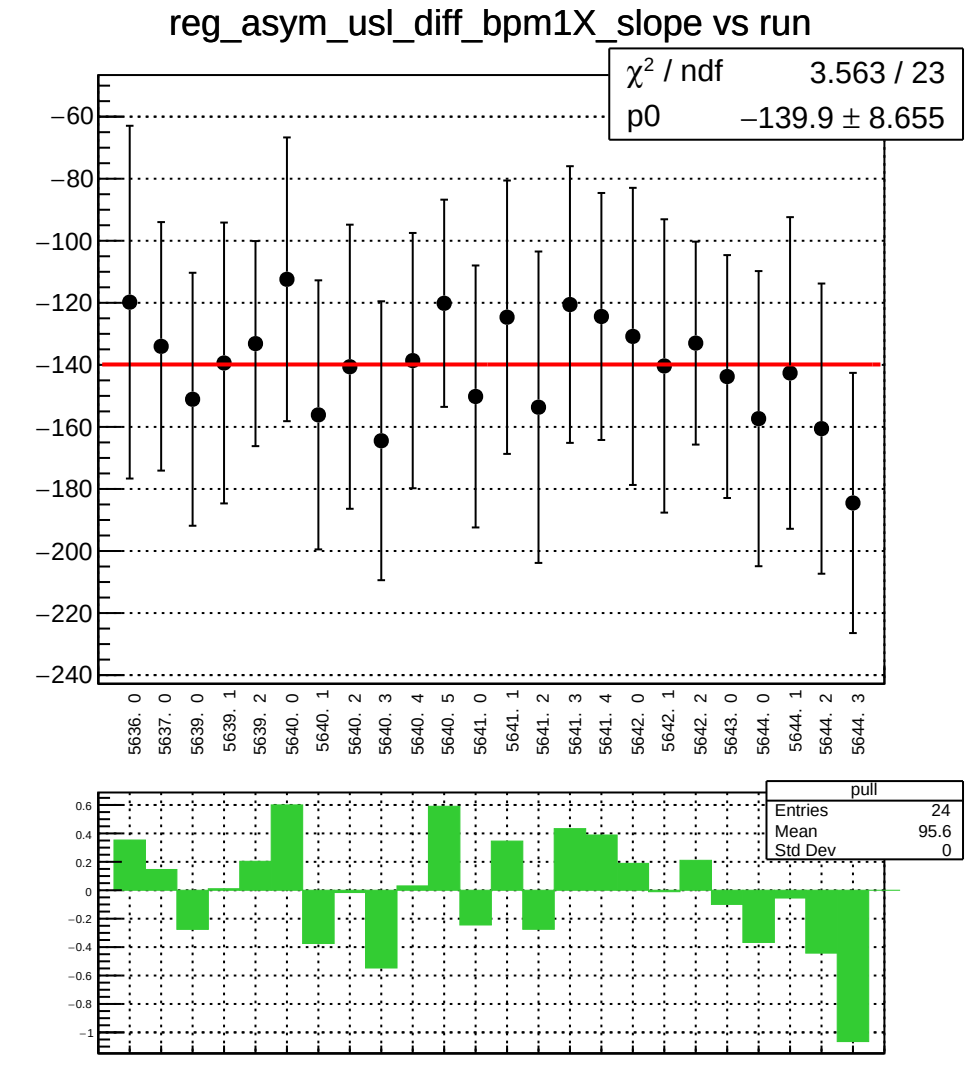

pull1D
Entries 24
Mean 0.8721
Std Dev 2.806
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

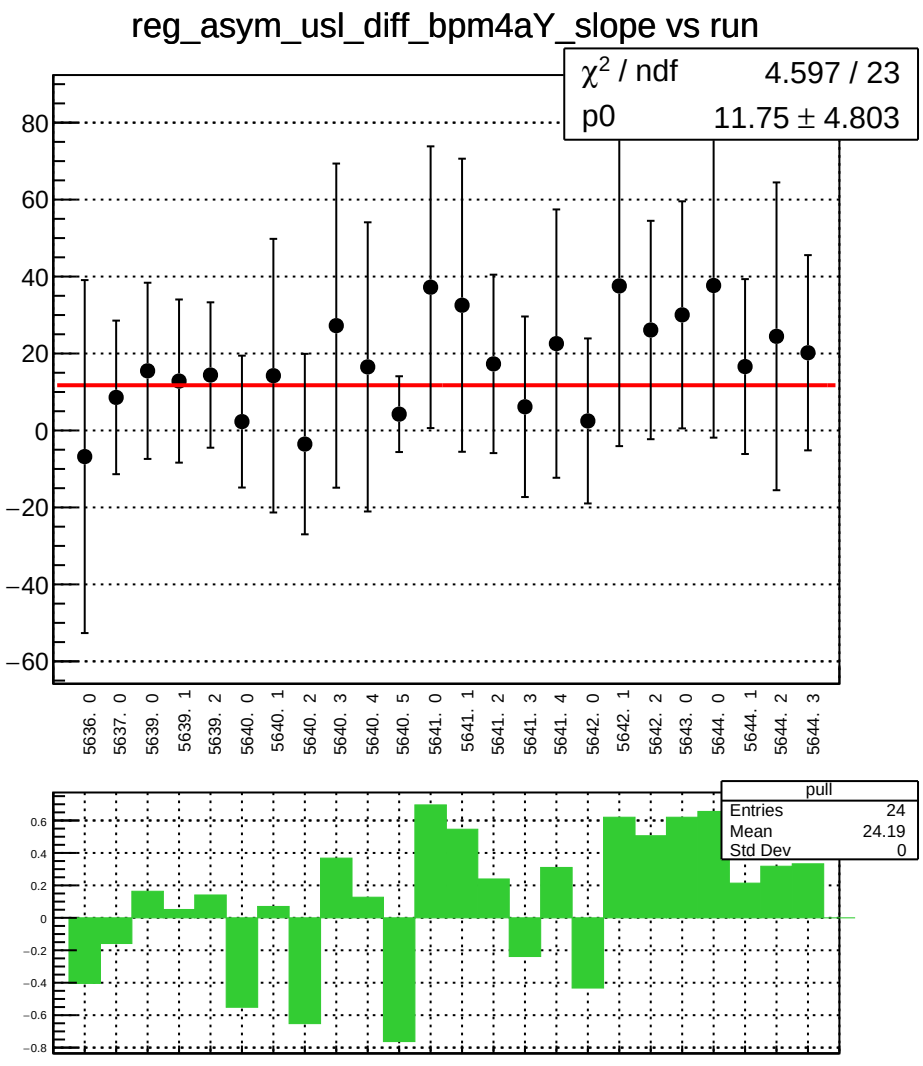

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 25.46 / 23
p0 −18.07 ± 0.5382
−8
−10
−12
−14
−16
−18
−20
−22
−24
−26
−28
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 87.55
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 24
Mean −0.01781
Std Dev 1.03
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

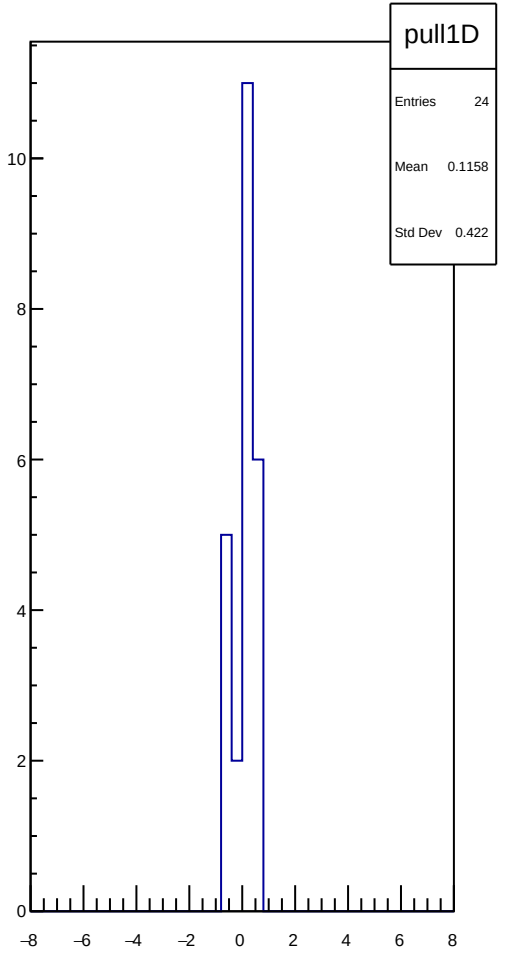

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 226.1 / 23
p0 33.93 ± 0.4565
45
40
35
30
25
20
15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 22.35
Std Dev 0
8
6
4
2
0
−2
−4
pull1D
Entries 24
Mean −0.8346
Std Dev 2.954
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

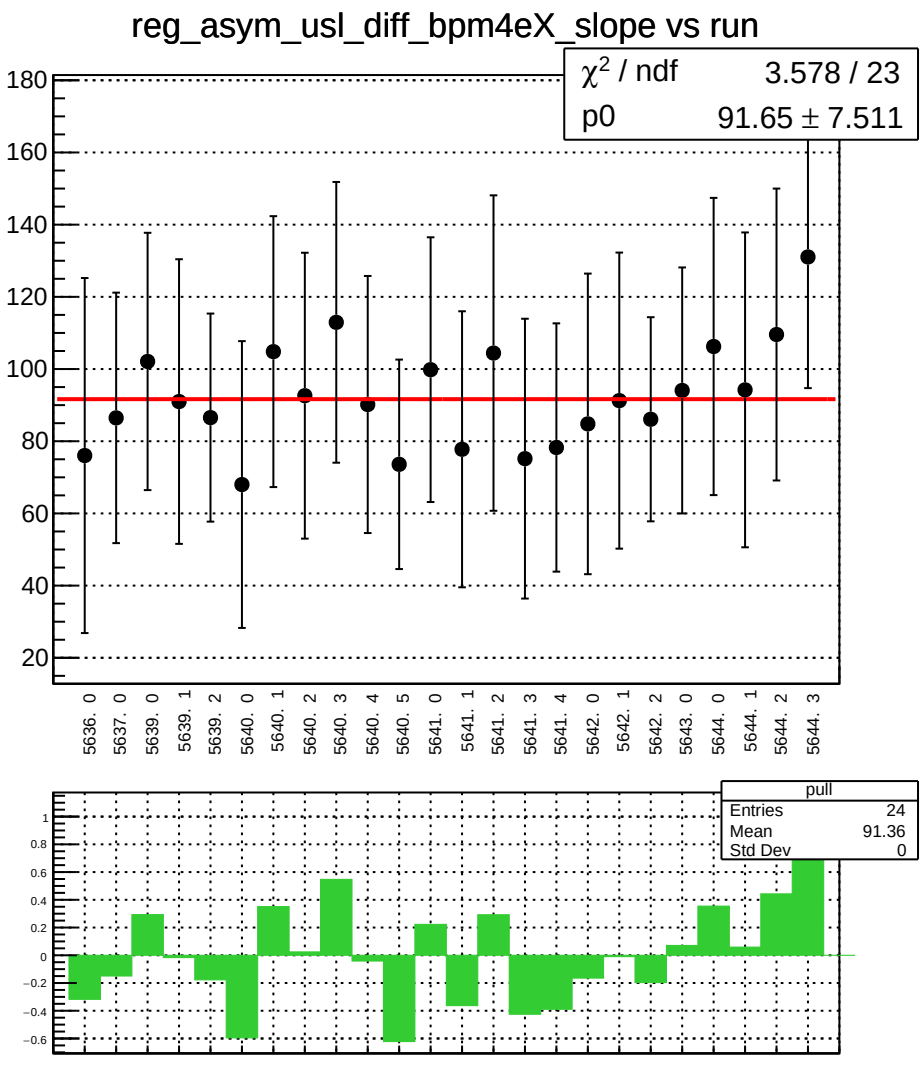

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 25.45 / 23
p0 −0.5674 ± 0.02192
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
−0.9
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 397.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

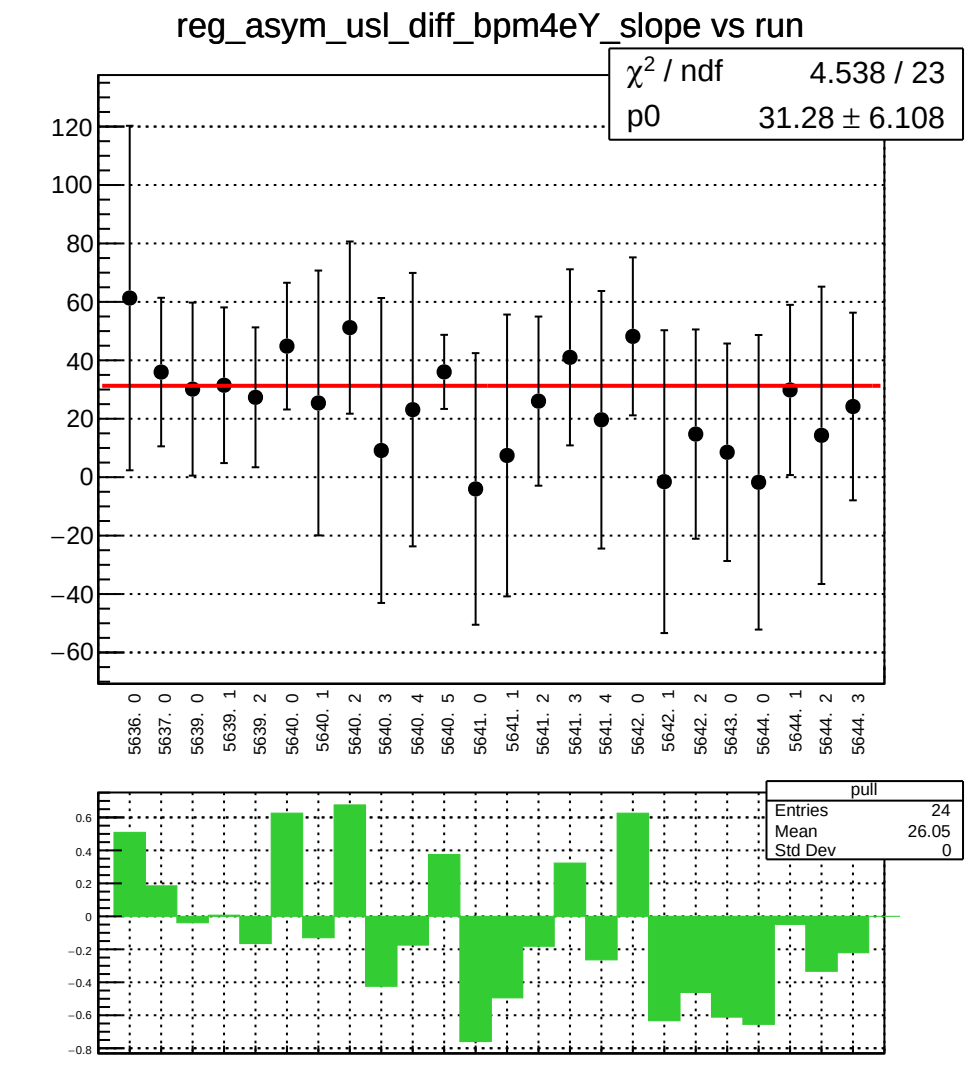

pull1D
Entries 24
Mean 0.008598
Std Dev 1.03
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

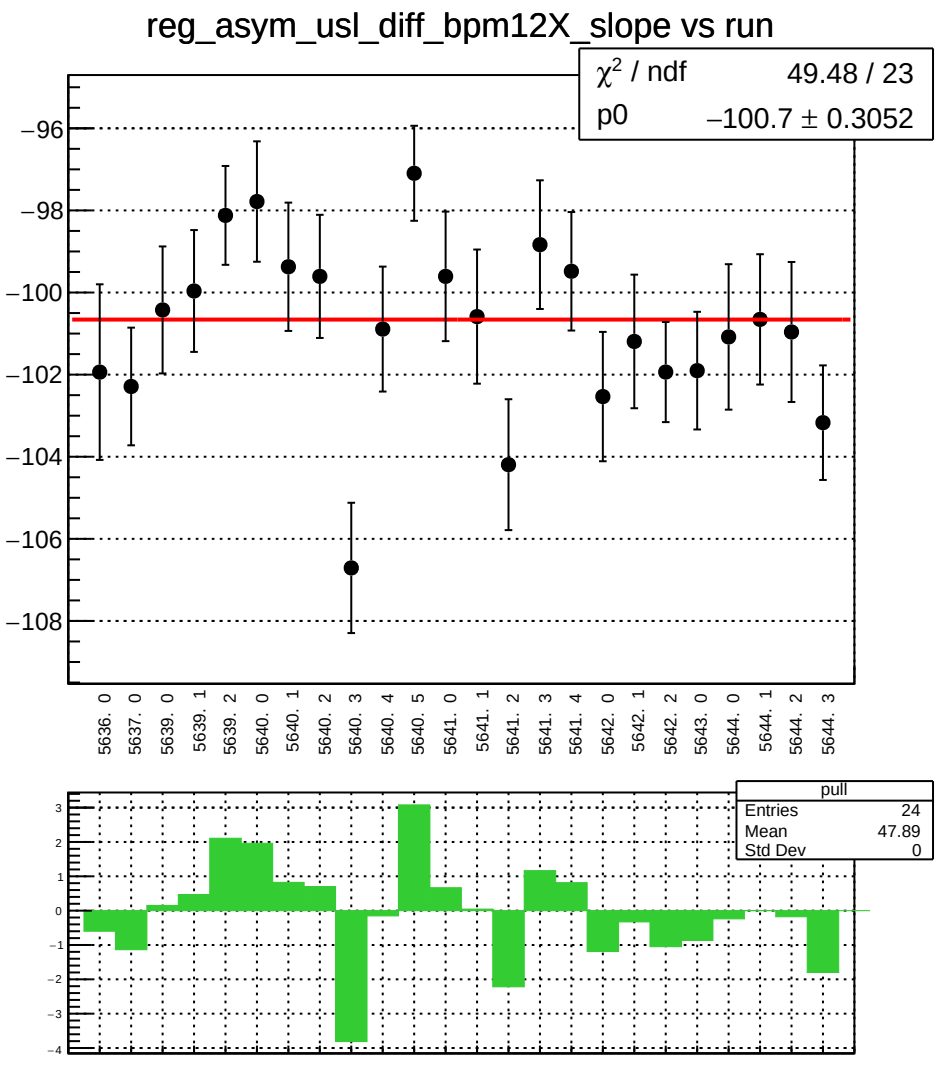

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 3.563 / 23
p0 −139.9 ± 8.655
−60
−80
−100
−120
−140
−160
−180
−200
−220
−240
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 95.6
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 24
Mean −0.01106
Std Dev 0.3851
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

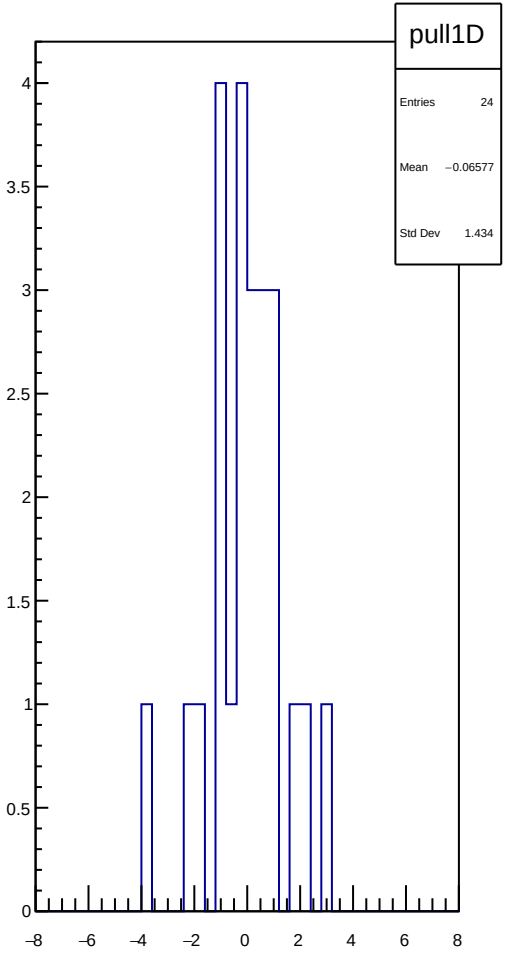

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 4.597 / 23
p0 11.75 ± 4.803
80
60
40
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 24.19
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

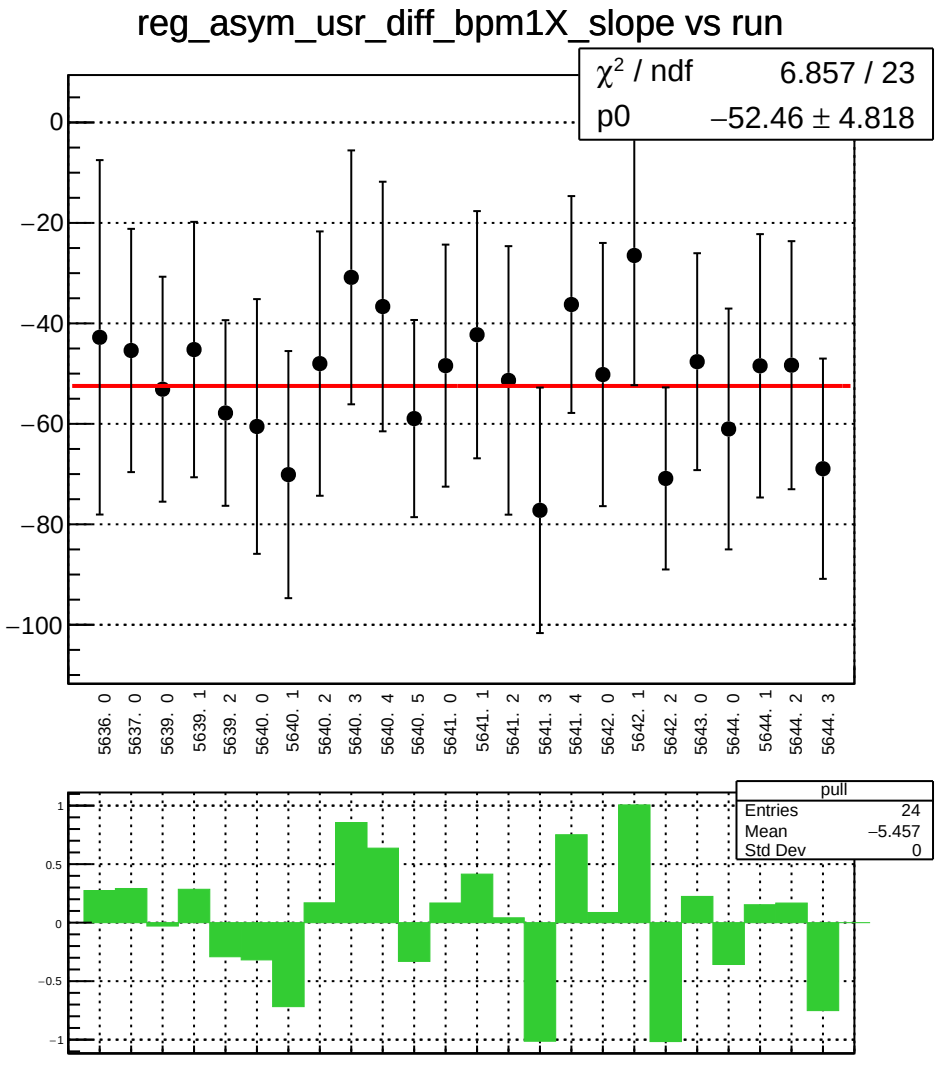

pull1D
Entries 24
Mean 0.1158
Std Dev 0.422
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

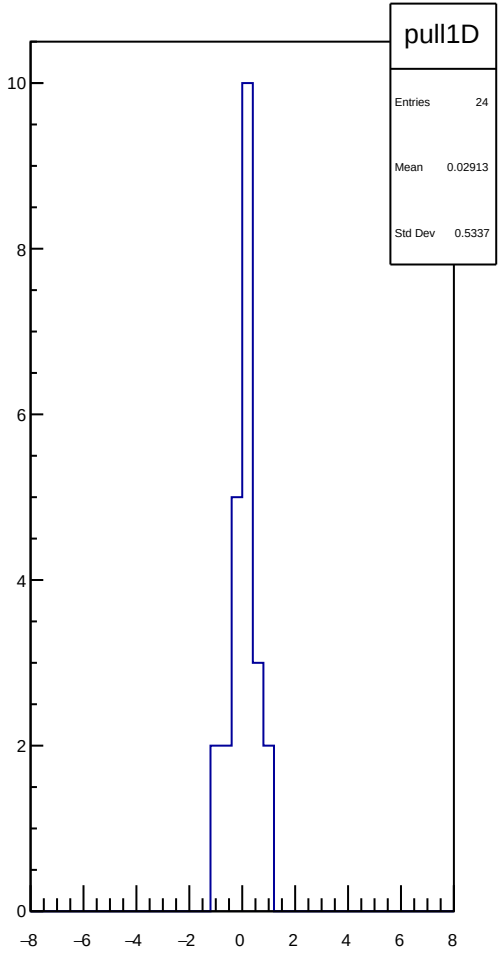

reg_asym_usl_diff_bpm4eX_slope vs run
χ2 / ndf 3.578 / 23
p0 91.65 ± 7.511
180
160
140
120
100
80
60
40
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 91.36
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 24
Mean 0.01141
Std Dev 0.386
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

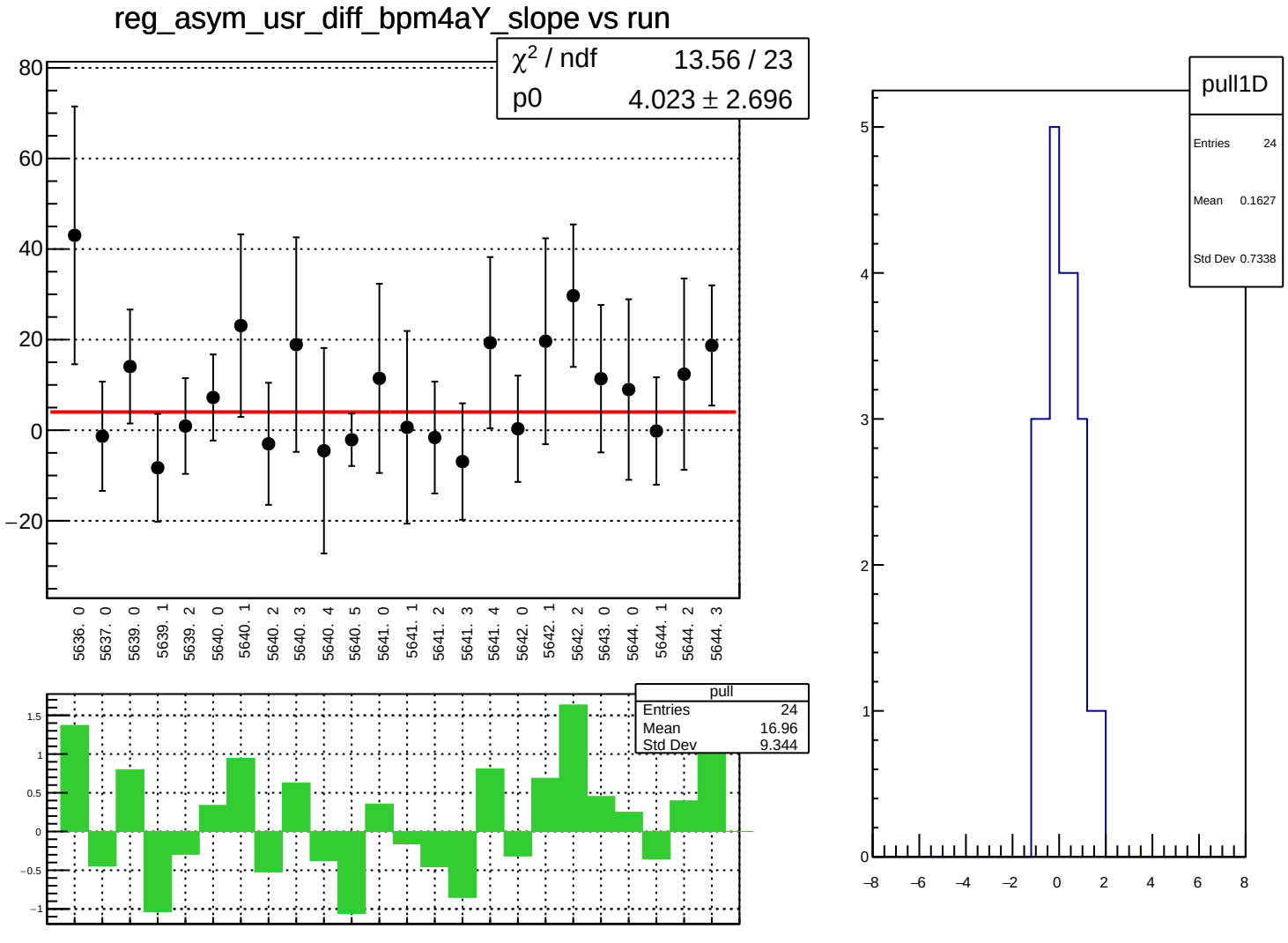

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 4.538 / 23
p0 31.28 ± 6.108
120
100
80
60
40
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 26.05
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean −0.09455
Std Dev 0.4244
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

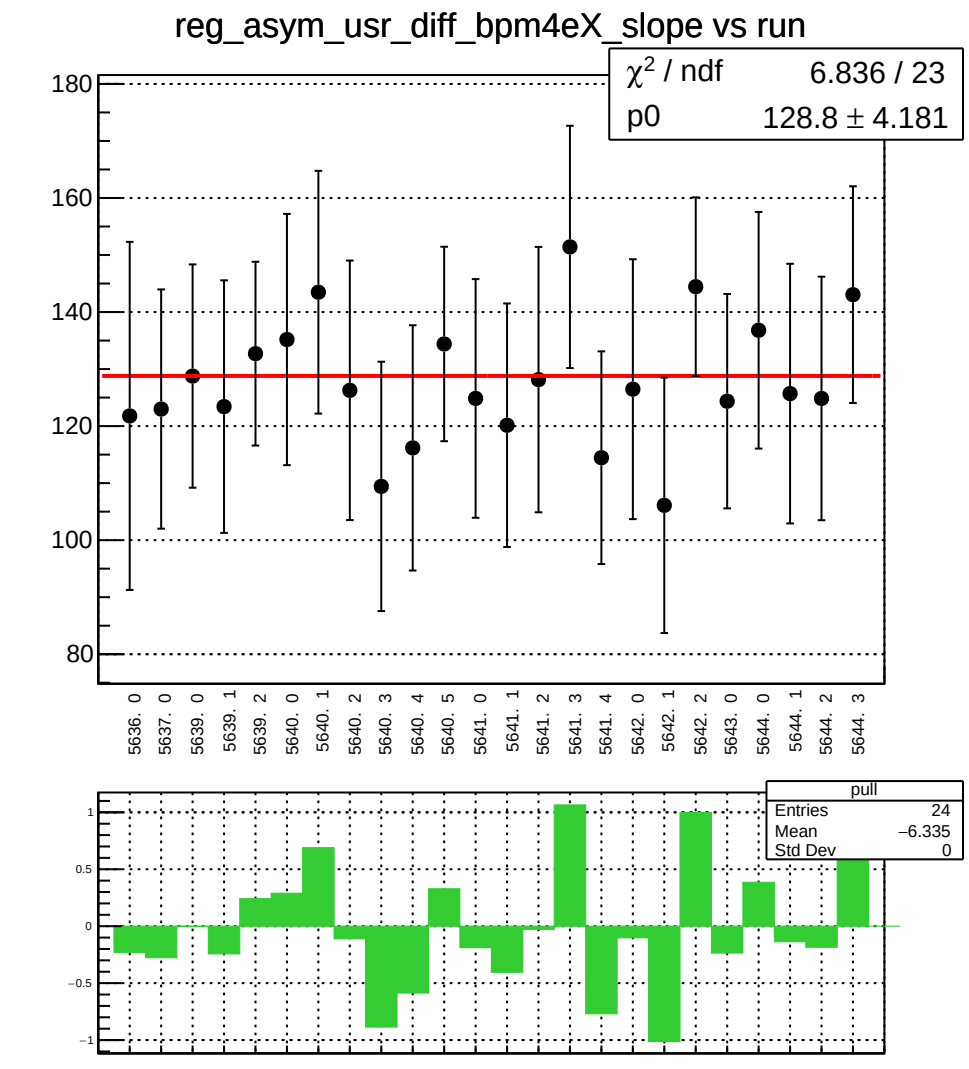

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 49.48 / 23
p0 −100.7 ± 0.3052
−96
−98
−100
−102
−104
−106
−108
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 47.89
Std Dev 0
3
2
1
0
−1
−2
−3
−4

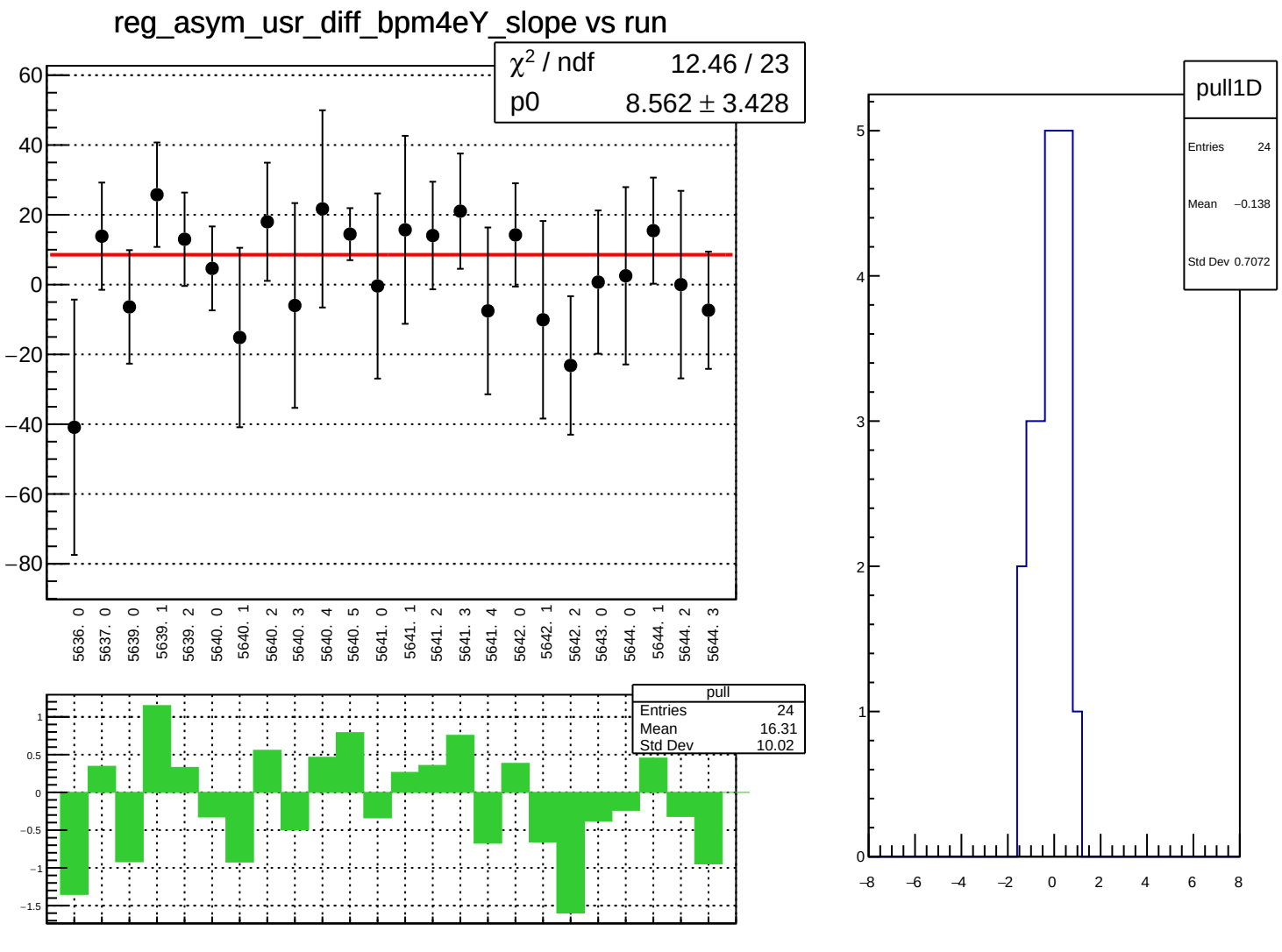

pull1D
Entries 24
Mean −0.06577
Std Dev 1.434
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

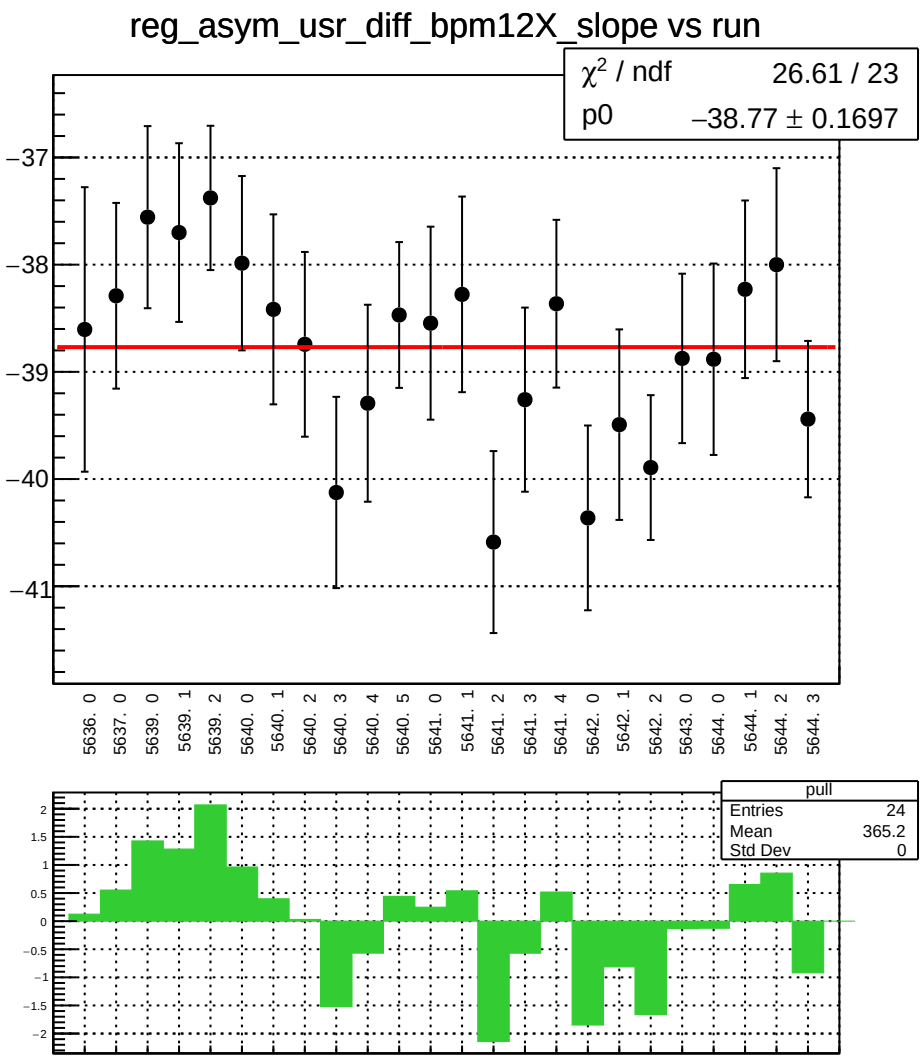

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 6.857 / 23
p0 −52.46 ± 4.818
0
−20
−40
−60
−80
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −5.457
Std Dev 0
1
0.5
0
−0.5
−1

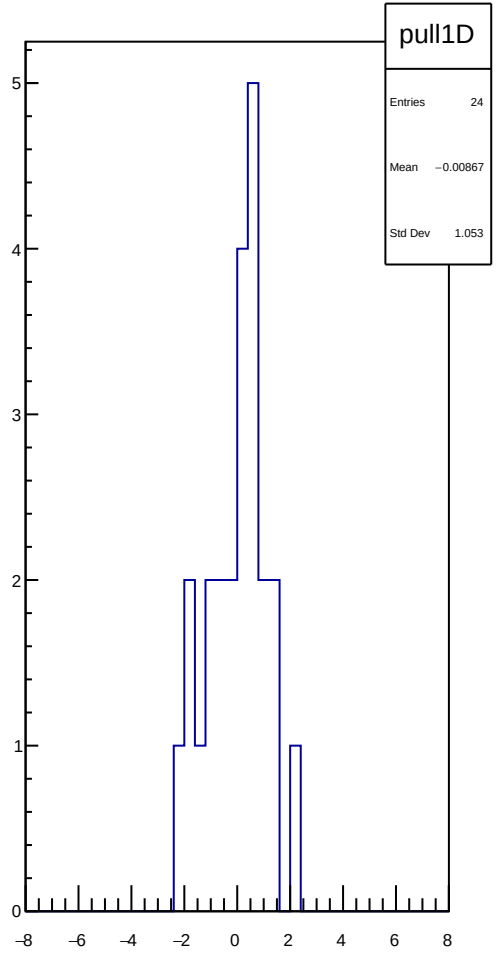

pull1D
Entries 24
Mean 0.02913
Std Dev 0.5337
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

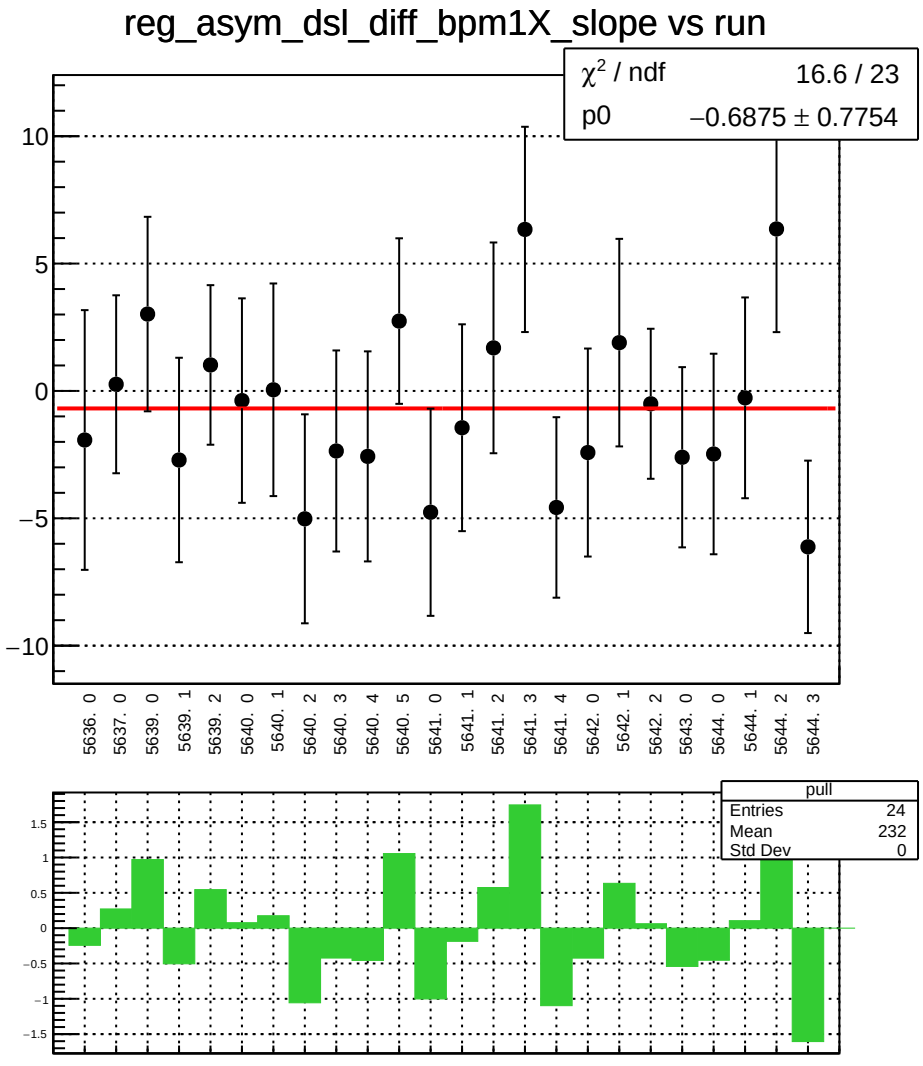

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 13.56 / 23
p0 4.023 ± 2.696
80
60
40
20
0
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 16.96
Std Dev 9.344
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.1627
Std Dev 0.7338
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

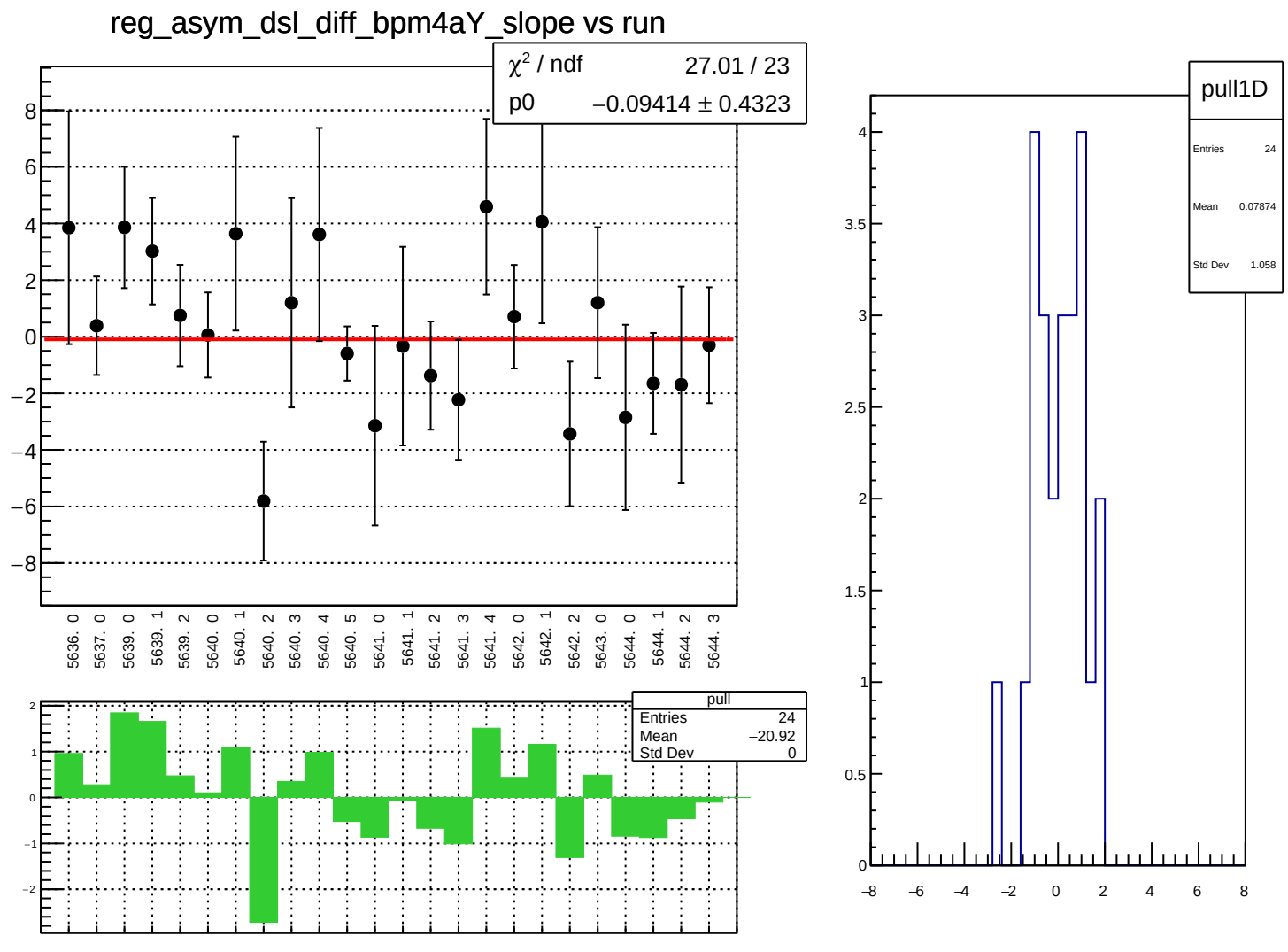

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 6.836 / 23
p0 128.8 ± 4.181
180
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −6.335
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.02702
Std Dev 0.533
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

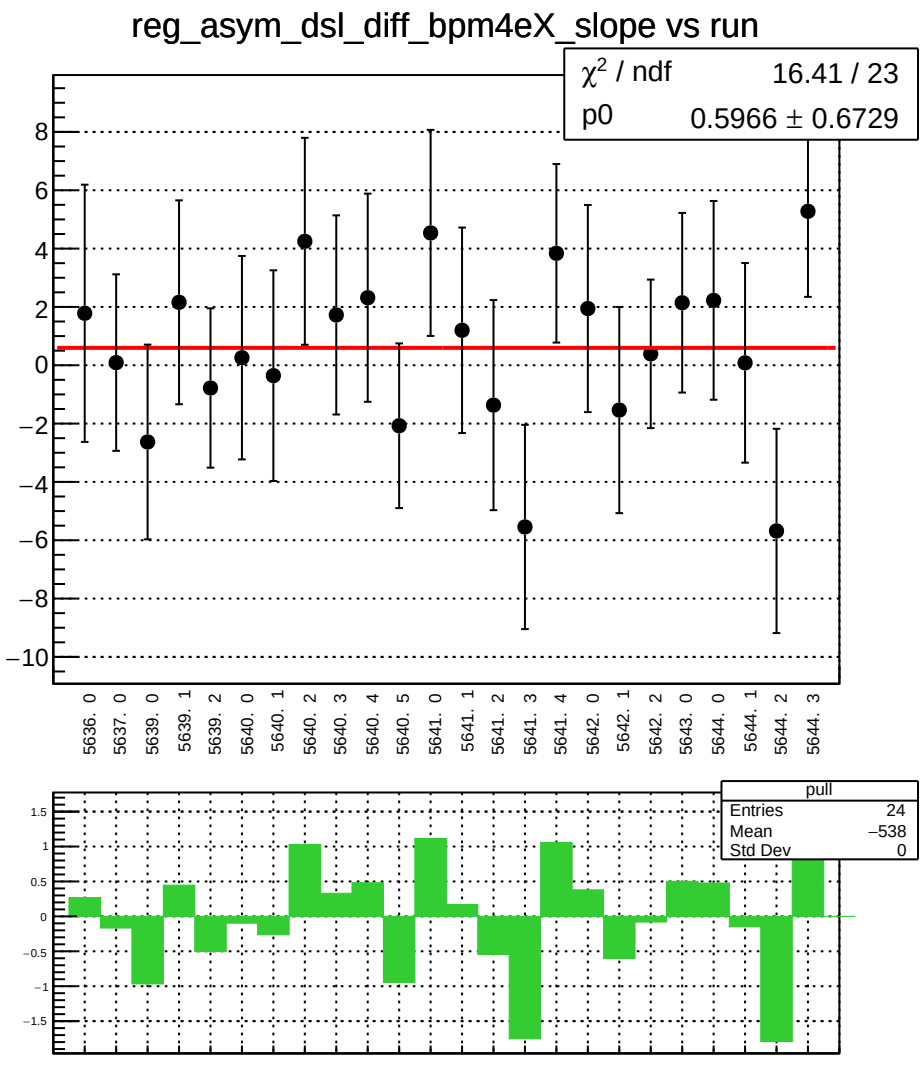

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 12.46 / 23
p0 8.562 ± 3.428
60
40
20
0
−20
−40
−60
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 16.31
Std Dev 10.02
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.138
Std Dev 0.7072
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

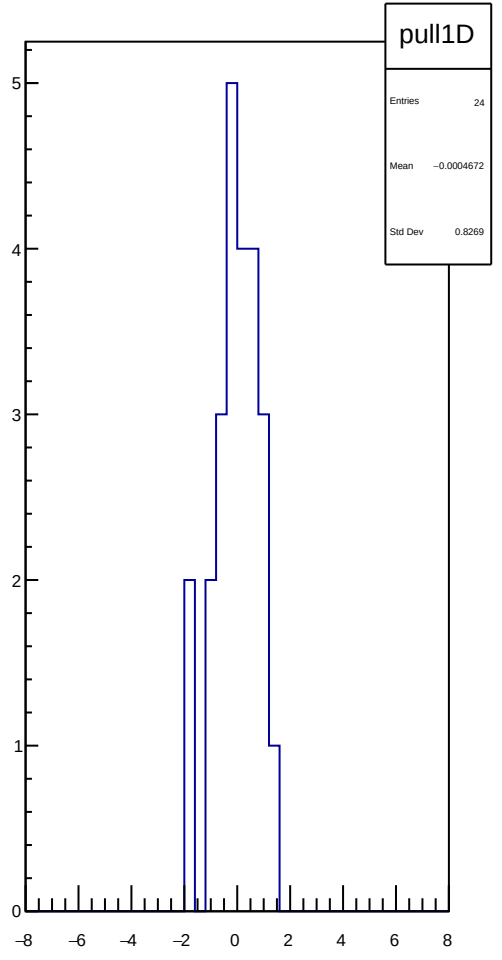

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 26.61 / 23
p0 −38.77 ± 0.1697
−37
−38
−39
−40
−41
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 365.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

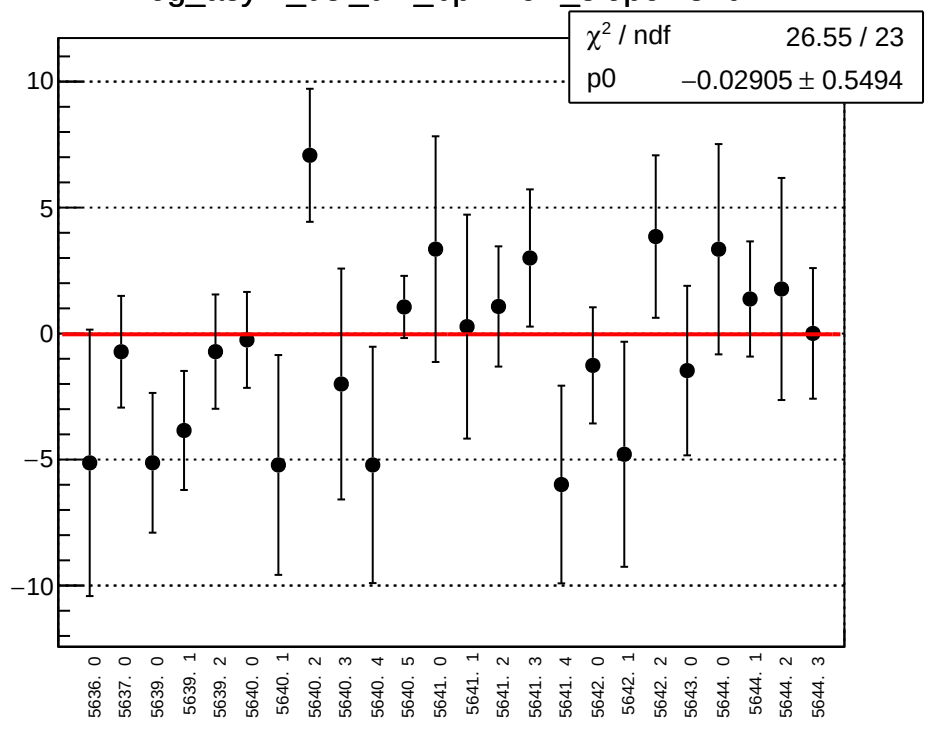

pull1D
Entries 24
Mean −0.00867
Std Dev 1.053
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

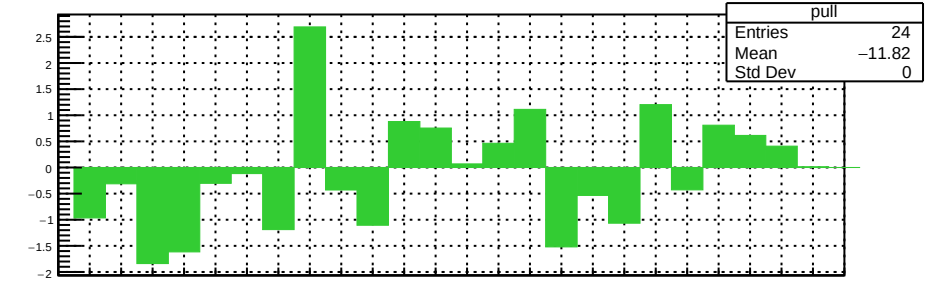

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 16.6 / 23
p0 −0.6875 ± 0.7754
10
5
0
−5
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 232
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.001533
Std Dev 0.8315
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

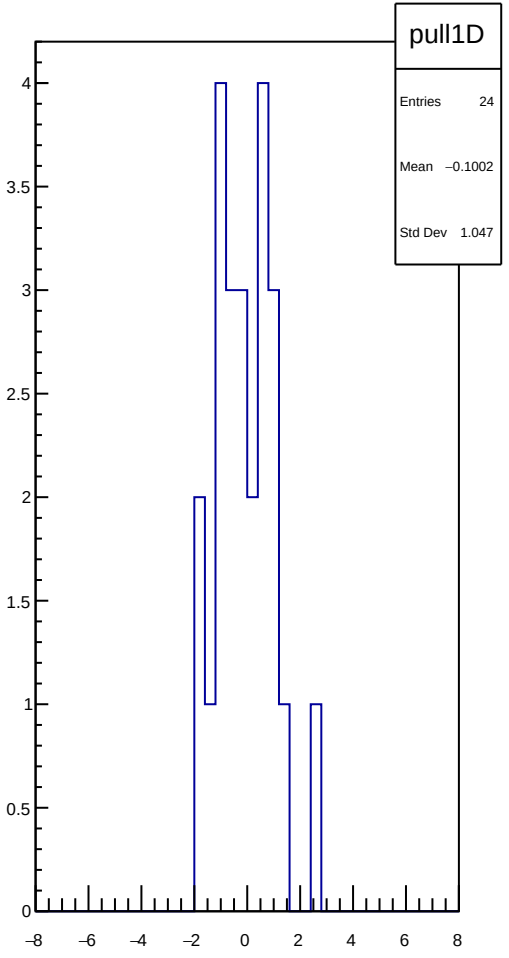

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 27.01 / 23
p0 −0.09414 ± 0.4323
8
6
4
2
0
−2
−4
−6
−8
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −20.92
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 24
Mean 0.07874
Std Dev 1.058
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

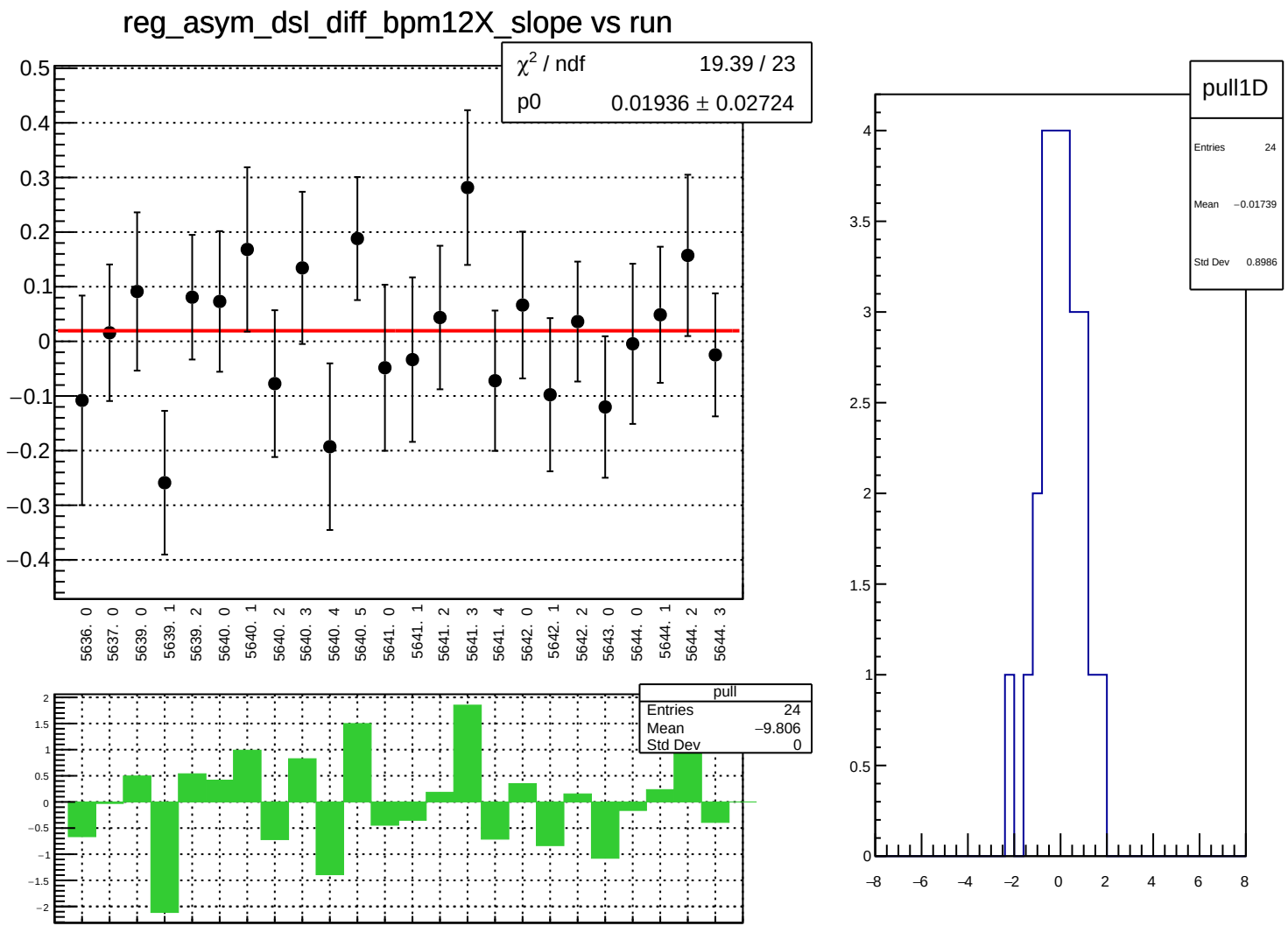

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 16.41 / 23
p0 0.5966 ± 0.6729
8
6
4
2
0
−2
−4
−6
−8
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −538
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

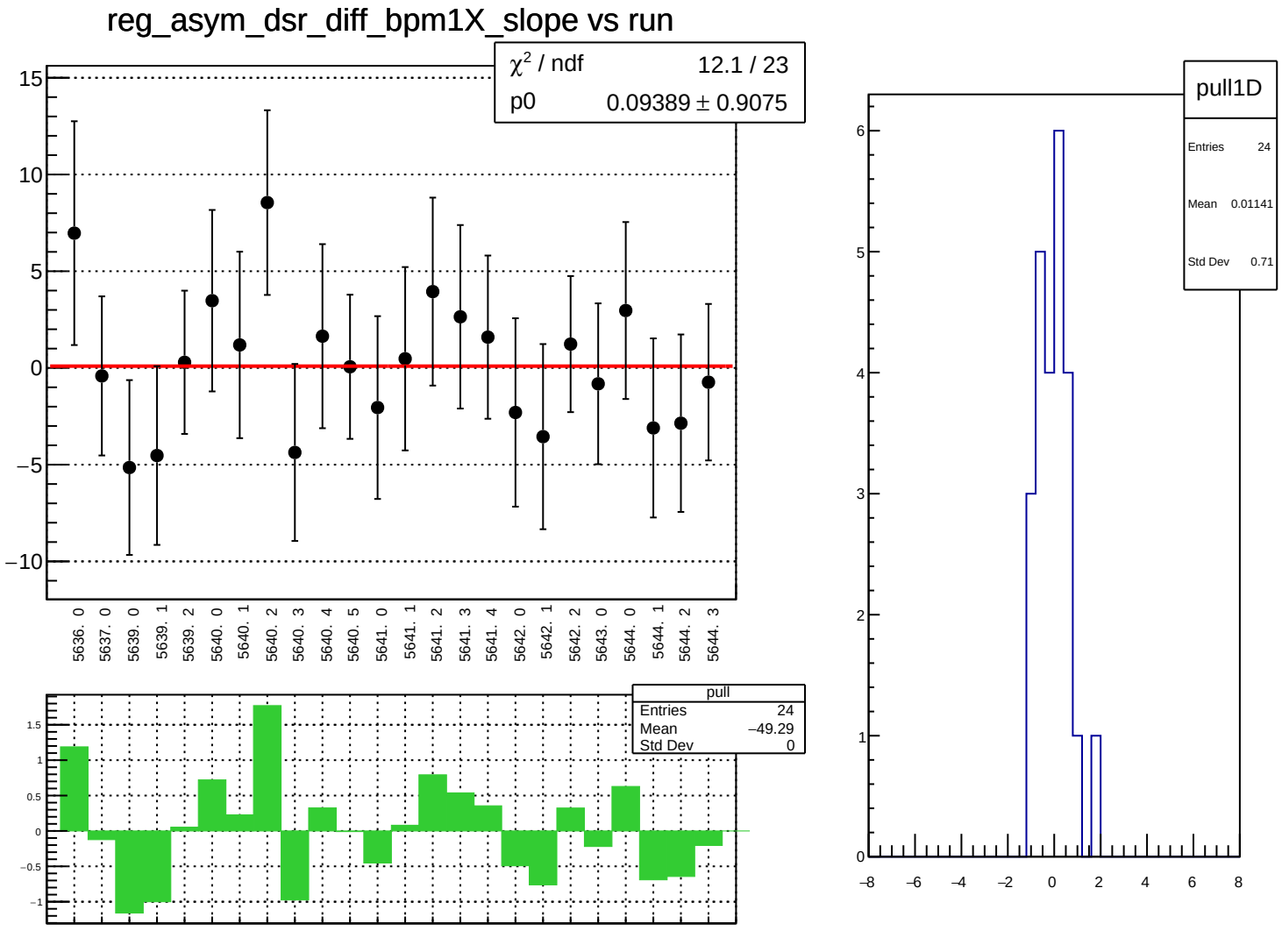

pull1D
Entries 24
Mean −0.0004672
Std Dev 0.8269
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

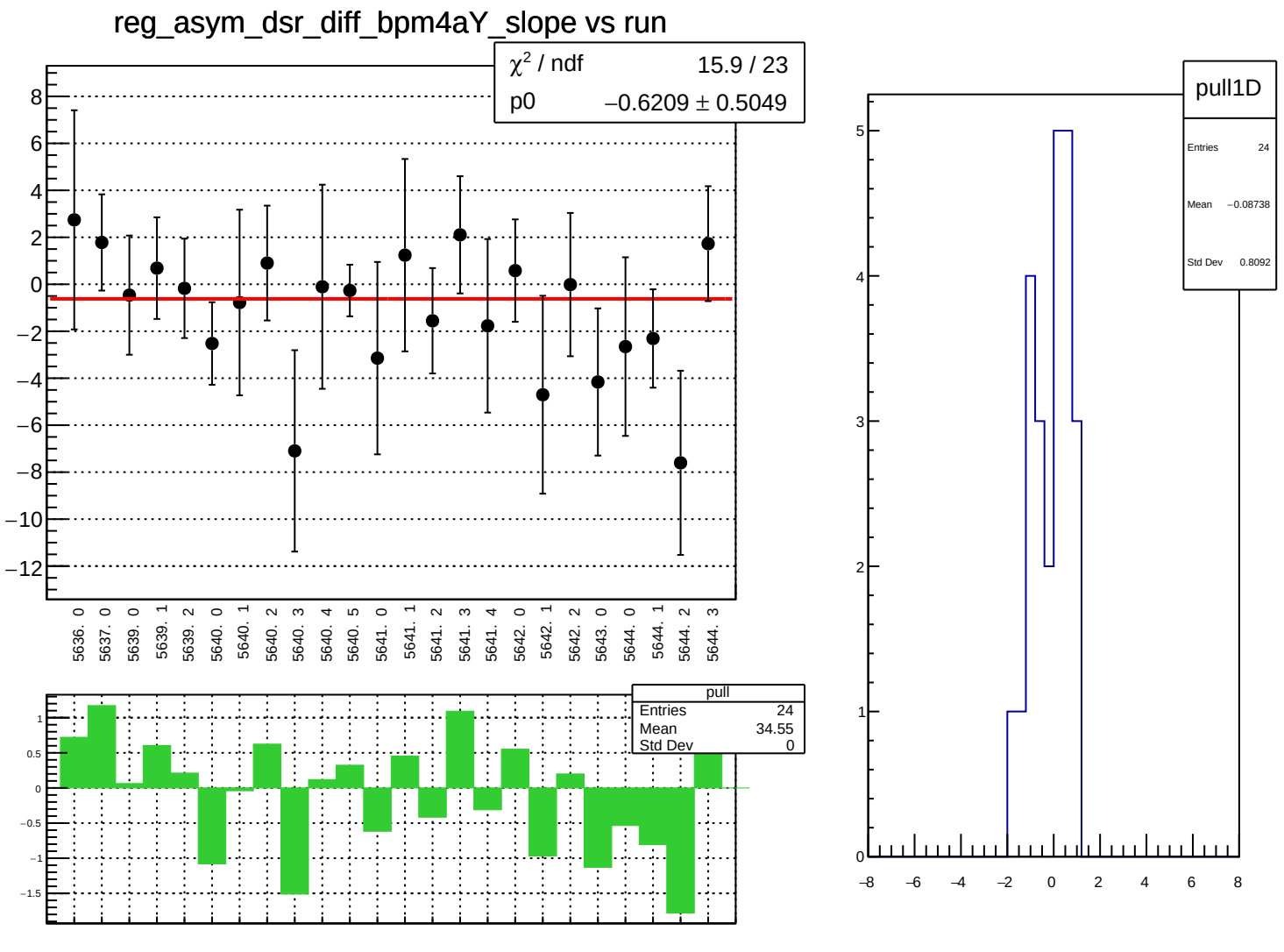

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 26.55 / 23
p0 −0.02905 ± 0.5494
10
5
0
−5
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

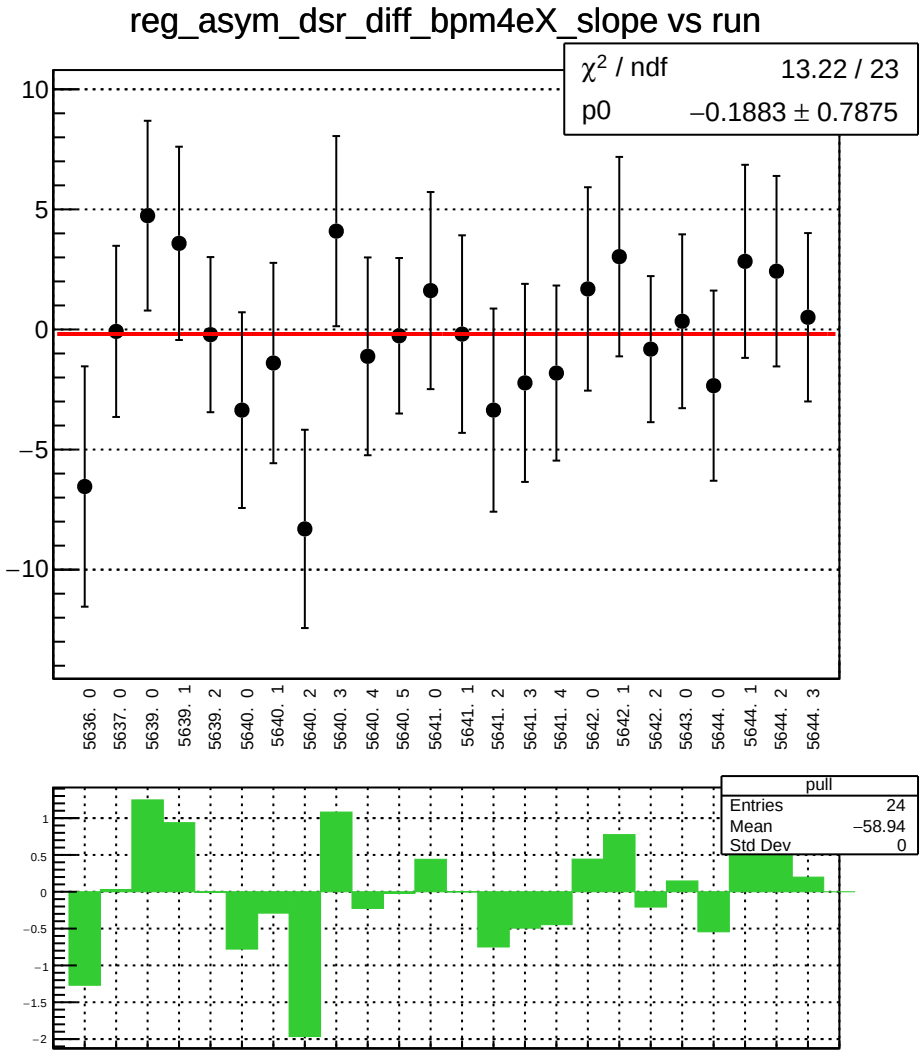

pull
Entries 24
Mean −11.82
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

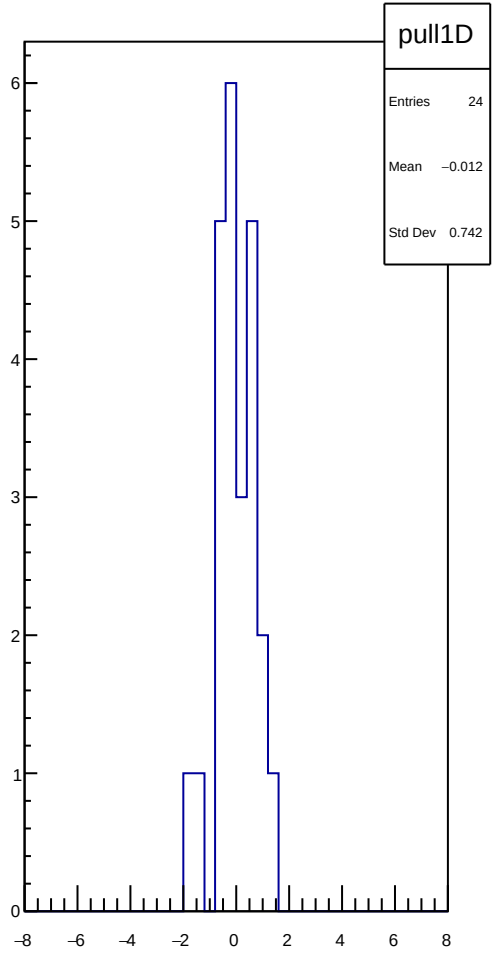

pull1D
Entries 24
Mean −0.1002
Std Dev 1.047
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

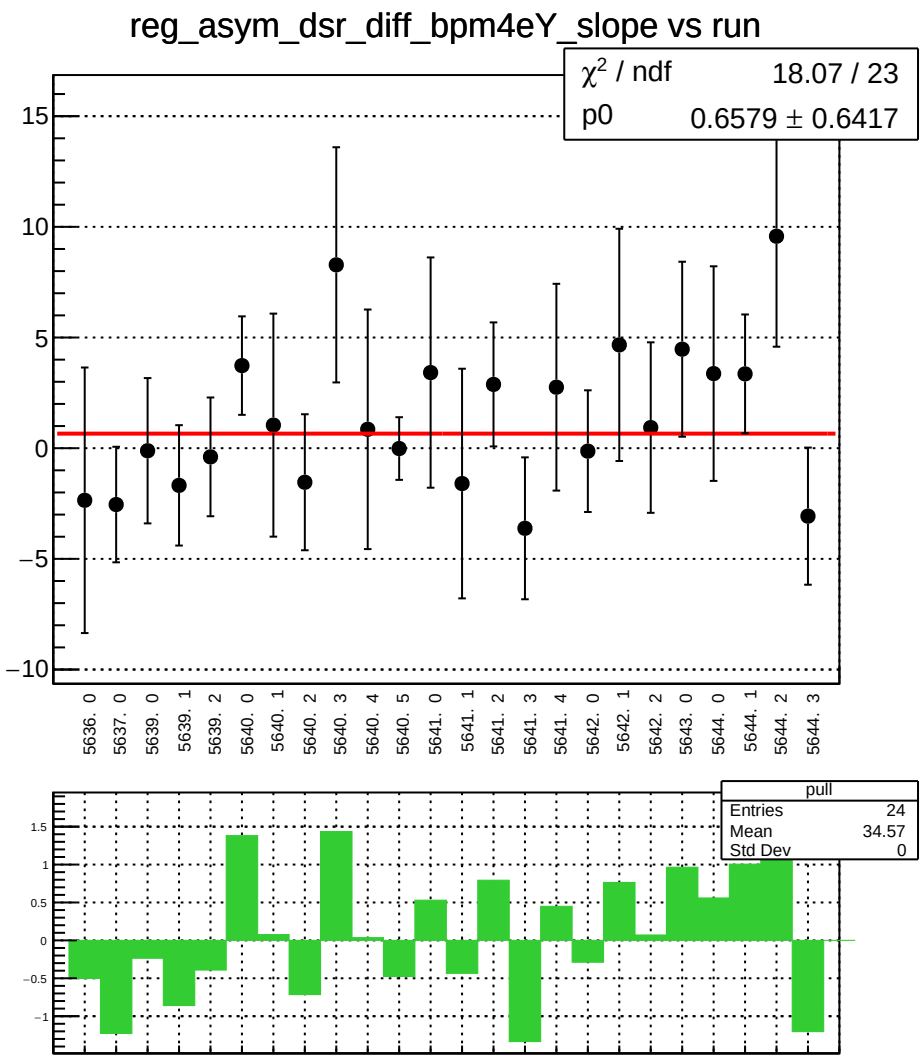

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 19.39 / 23
p0 0.01936 ± 0.02724
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −9.806
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.01739
Std Dev 0.8986
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

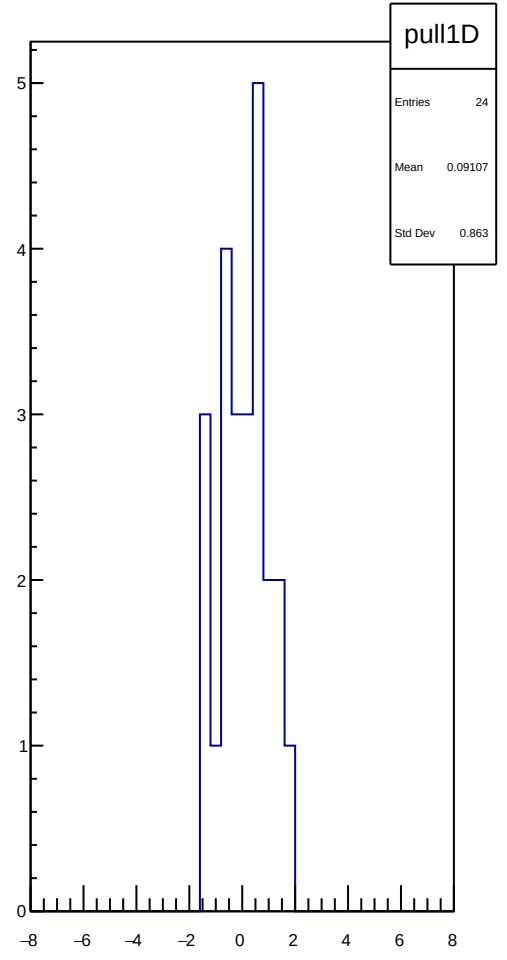

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 12.1 / 23
p0 0.09389 ± 0.9075
15
10
5
0
−5
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −49.29
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.01141
Std Dev 0.71
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

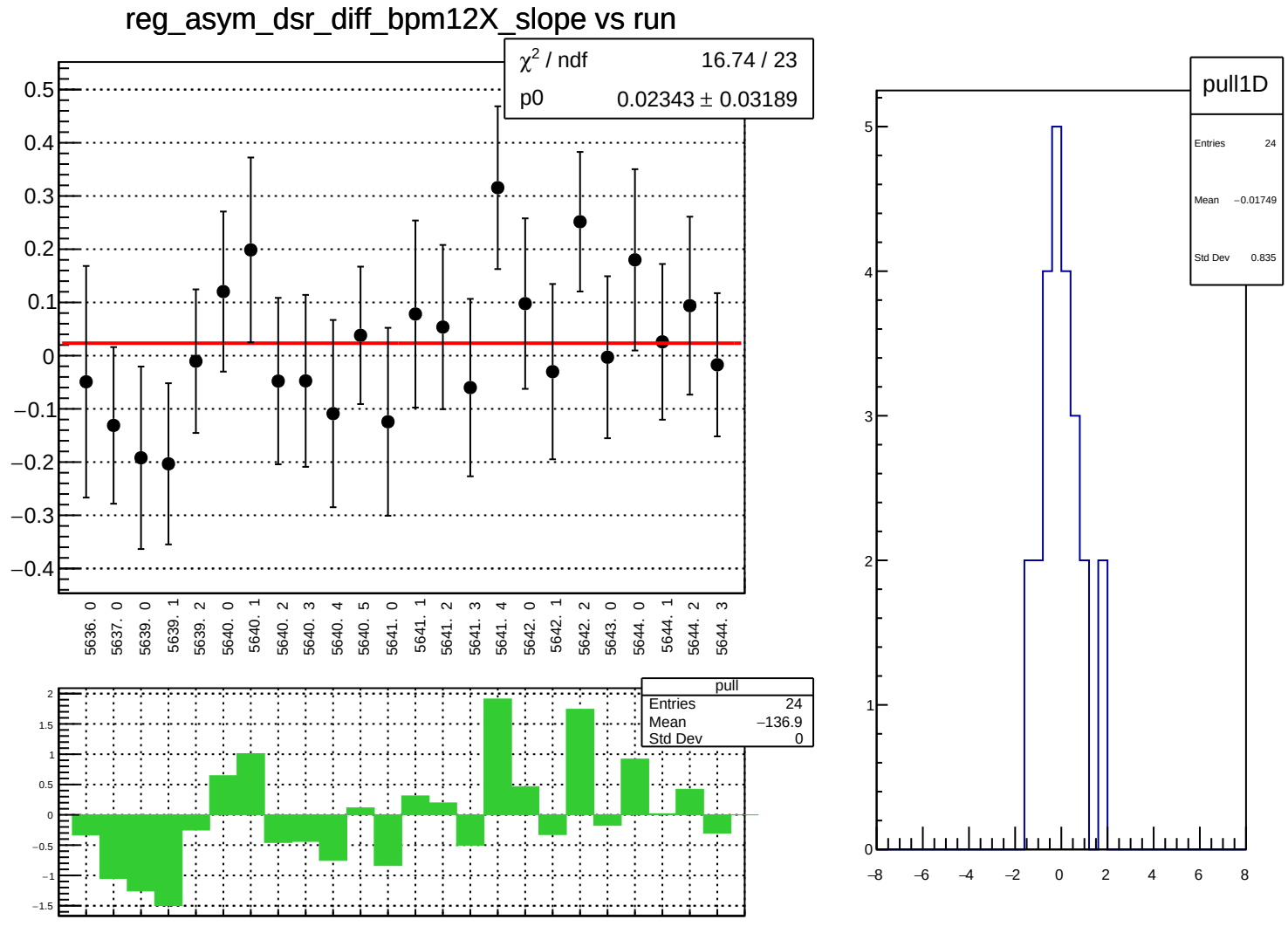

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 15.9 / 23
p0 −0.6209 ± 0.5049
8
6
4
2
0
−2
−4
−6
−8
−10
−12
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 34.55
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.08738
Std Dev 0.8092
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

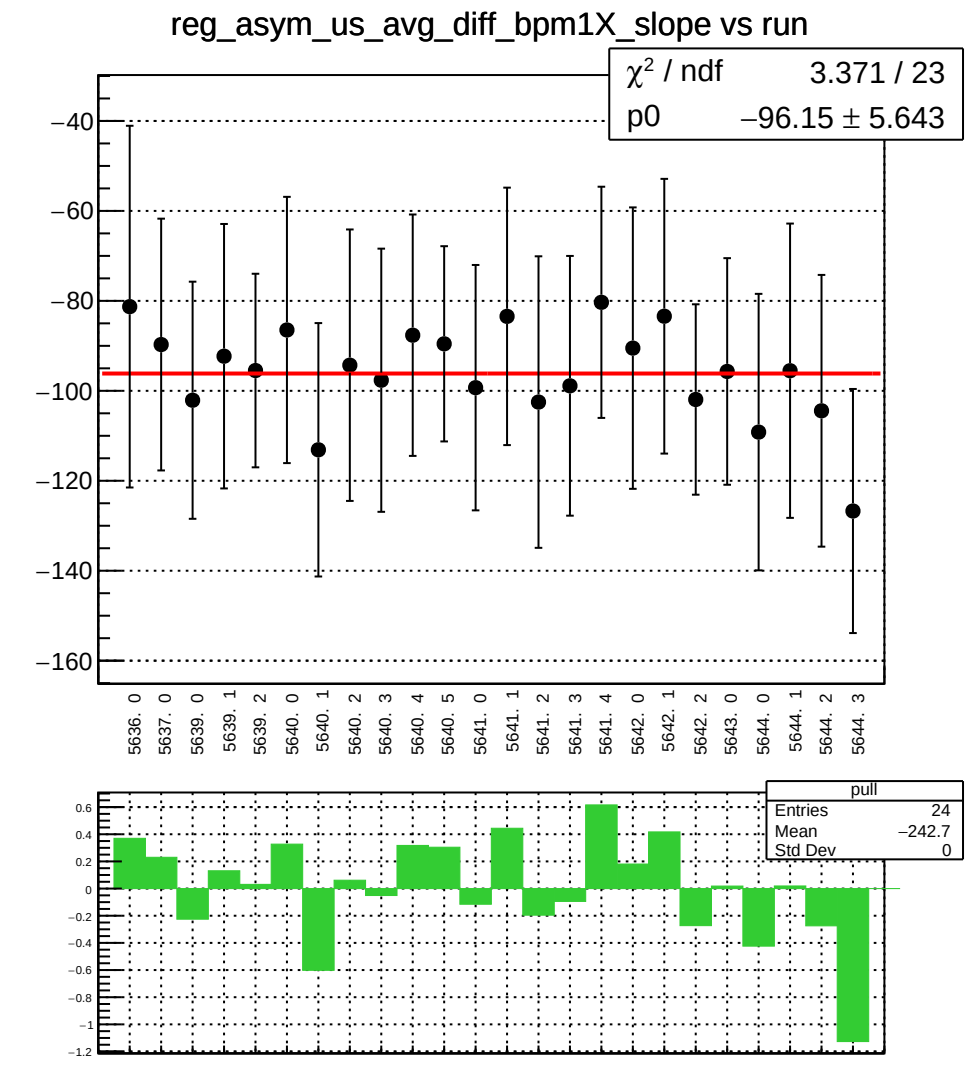

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 13.22 / 23
p0 −0.1883 ± 0.7875
10
5
0
−5
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −58.94
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

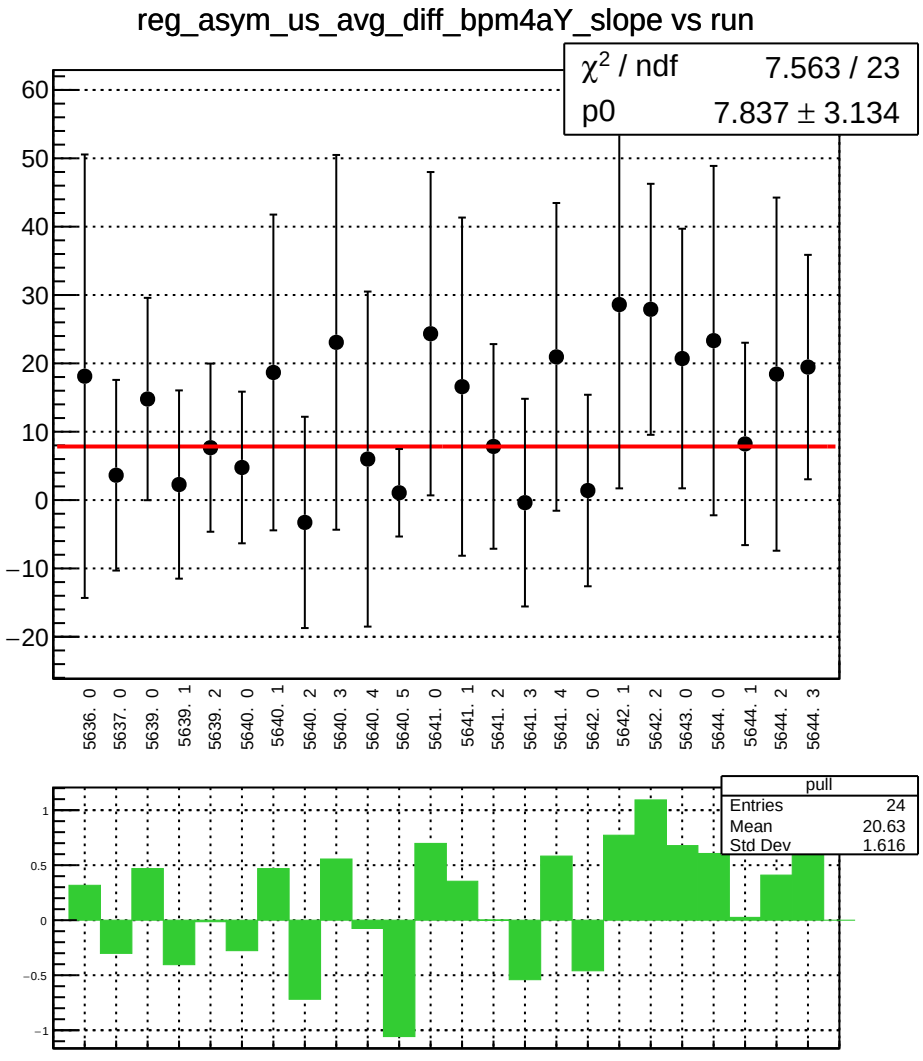

pull1D
Entries 24
Mean −0.012
Std Dev 0.742
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

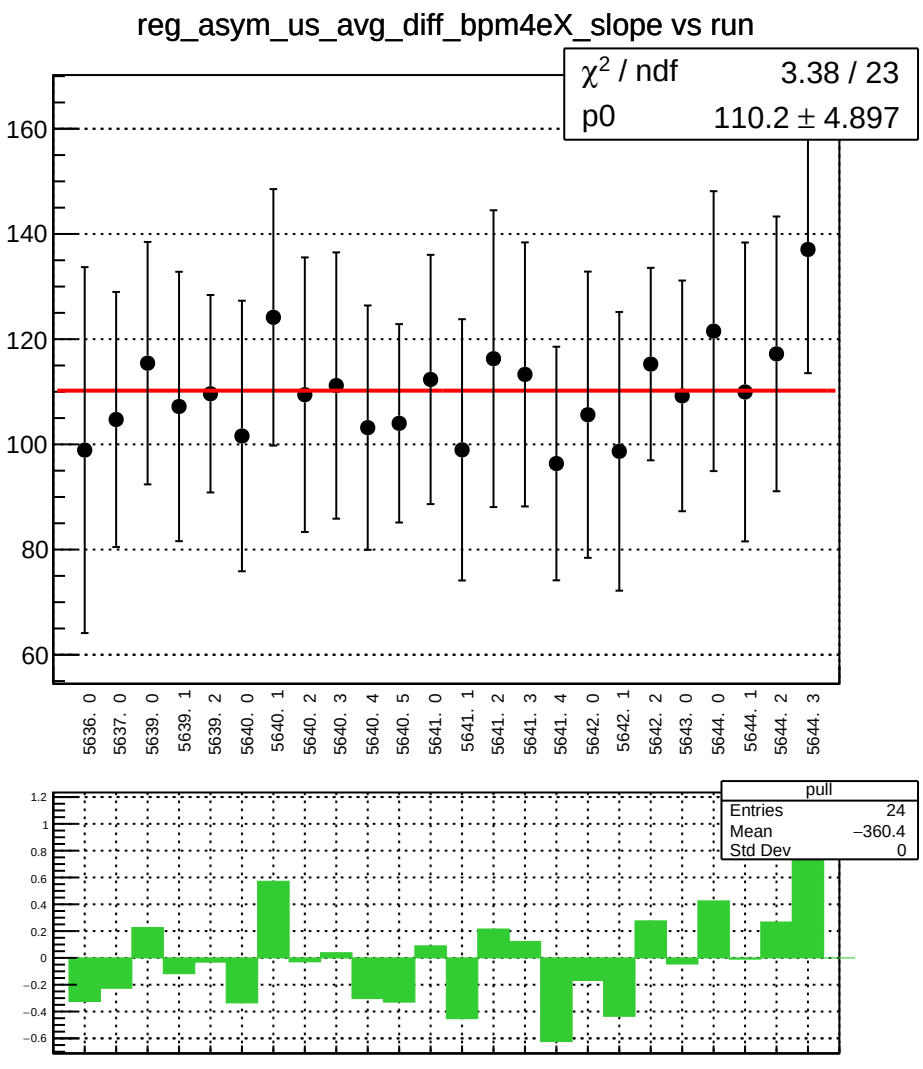

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 18.07 / 23
p0 0.6579 ± 0.6417
15
10
5
0
−5
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 34.57
Std Dev 0
1.5
1
0.5
0
−0.5
−1

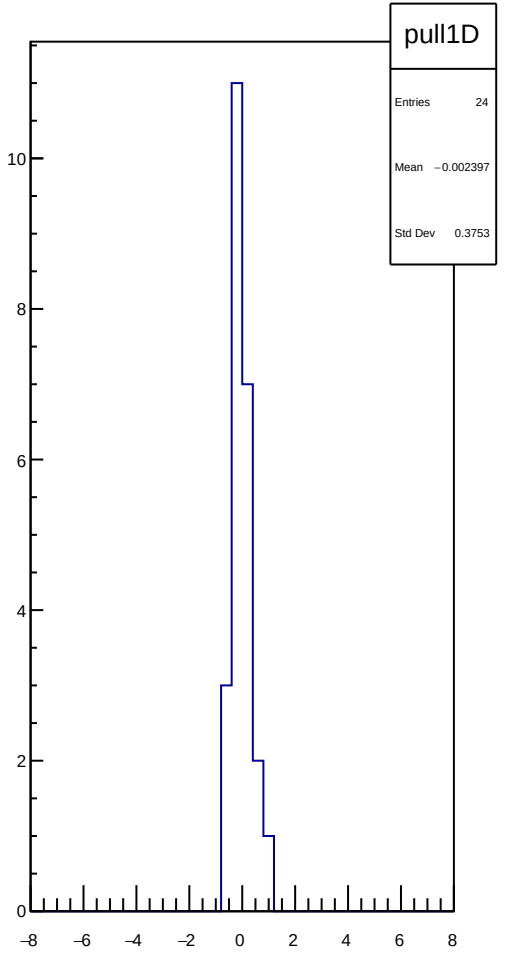

pull1D
Entries 24
Mean 0.09107
Std Dev 0.863
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

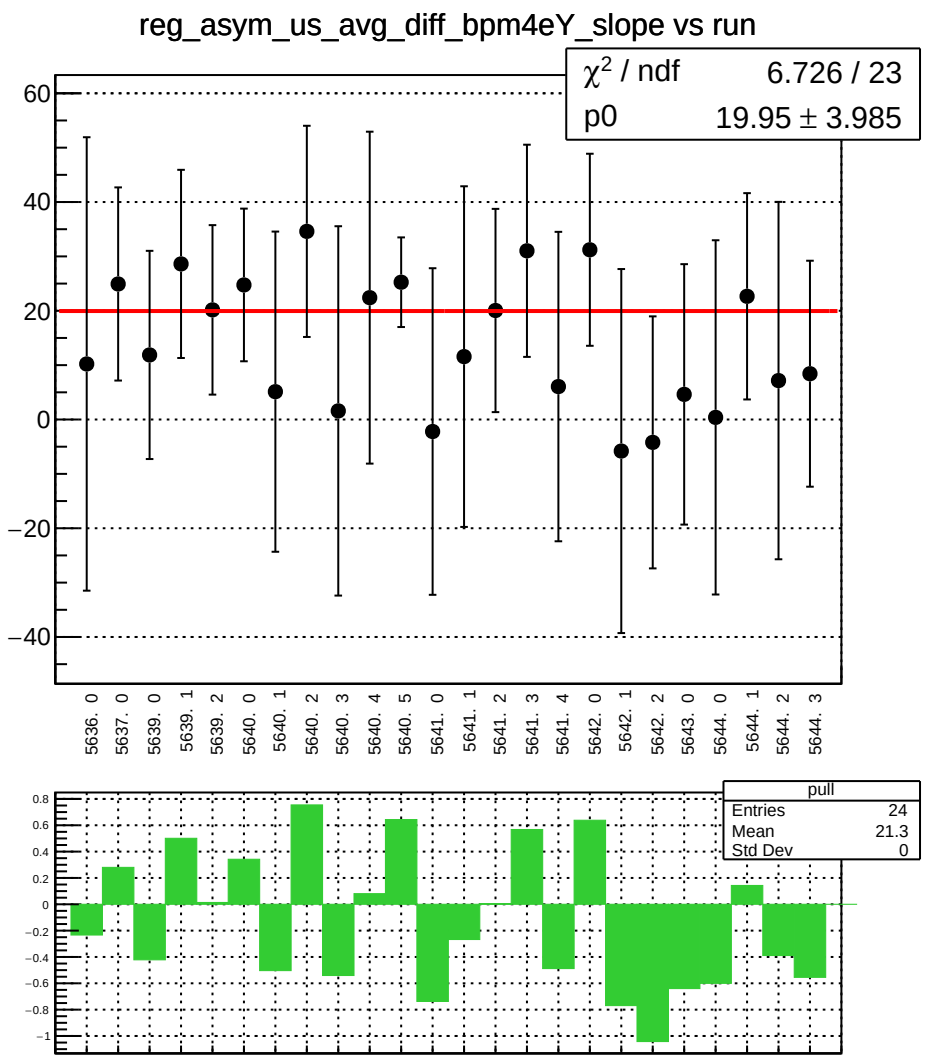

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 16.74 / 23
p0 0.02343 ± 0.03189
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −136.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.01749
Std Dev 0.835
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

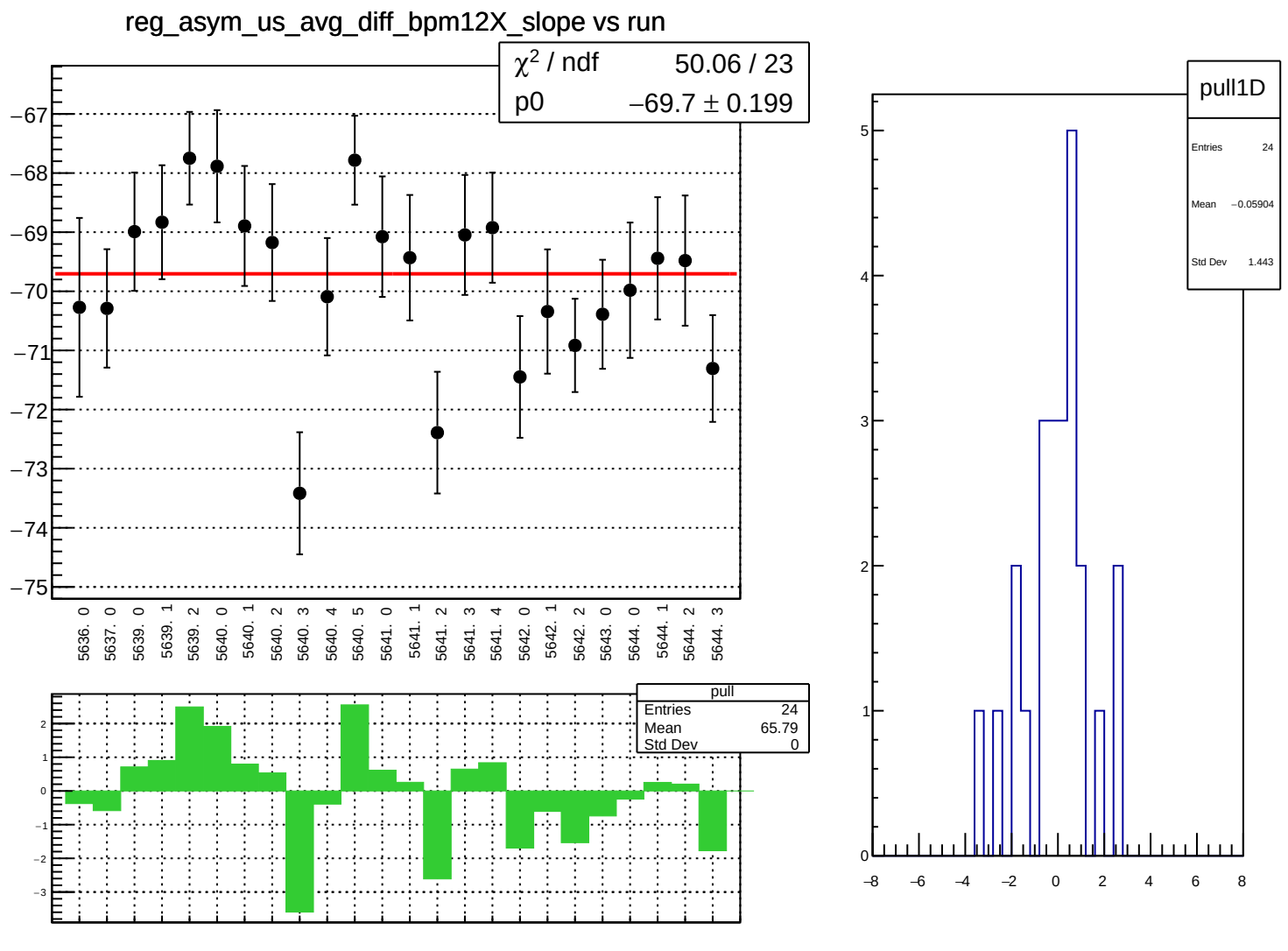

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 3.371 / 23
p0 −96.15 ± 5.643
−40
−60
−80
−100
−120
−140
−160
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −242.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 24
Mean 0.003585
Std Dev 0.3747
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

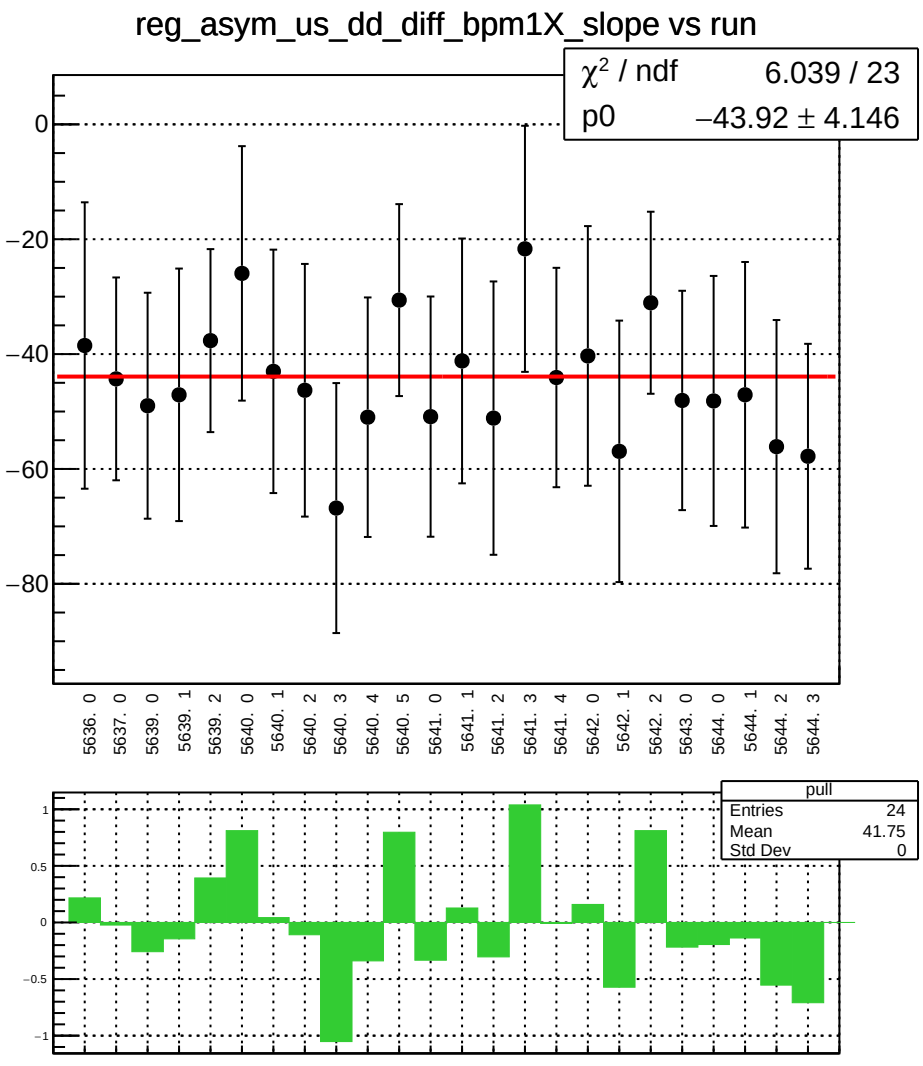

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.563 / 23
p0 7.837 ± 3.134
pull
Entries 24
Mean 20.63
Std Dev 1.616
pull1D
Entries 24
Mean 0.1622
Std Dev 0.5374

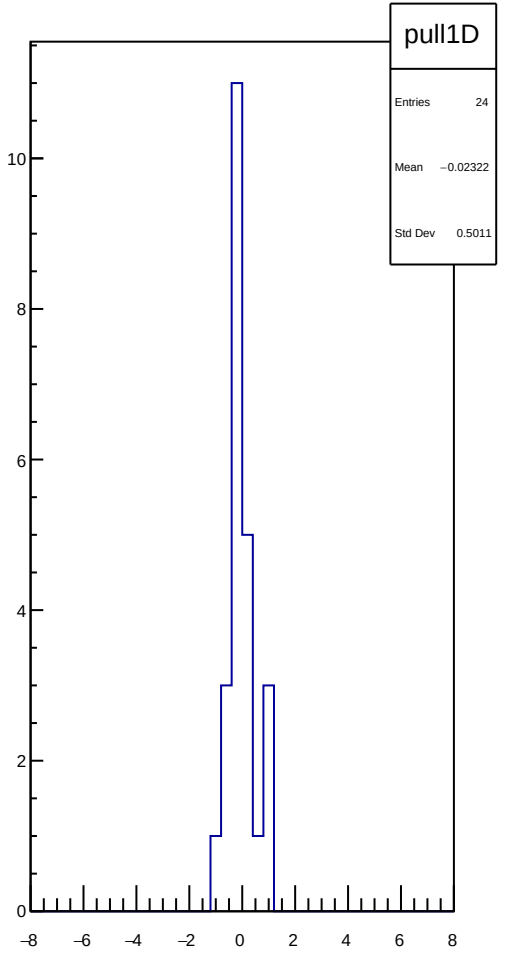

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.38 / 23
p0 110.2 ± 4.897
160
140
120
100
80
60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −360.4
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

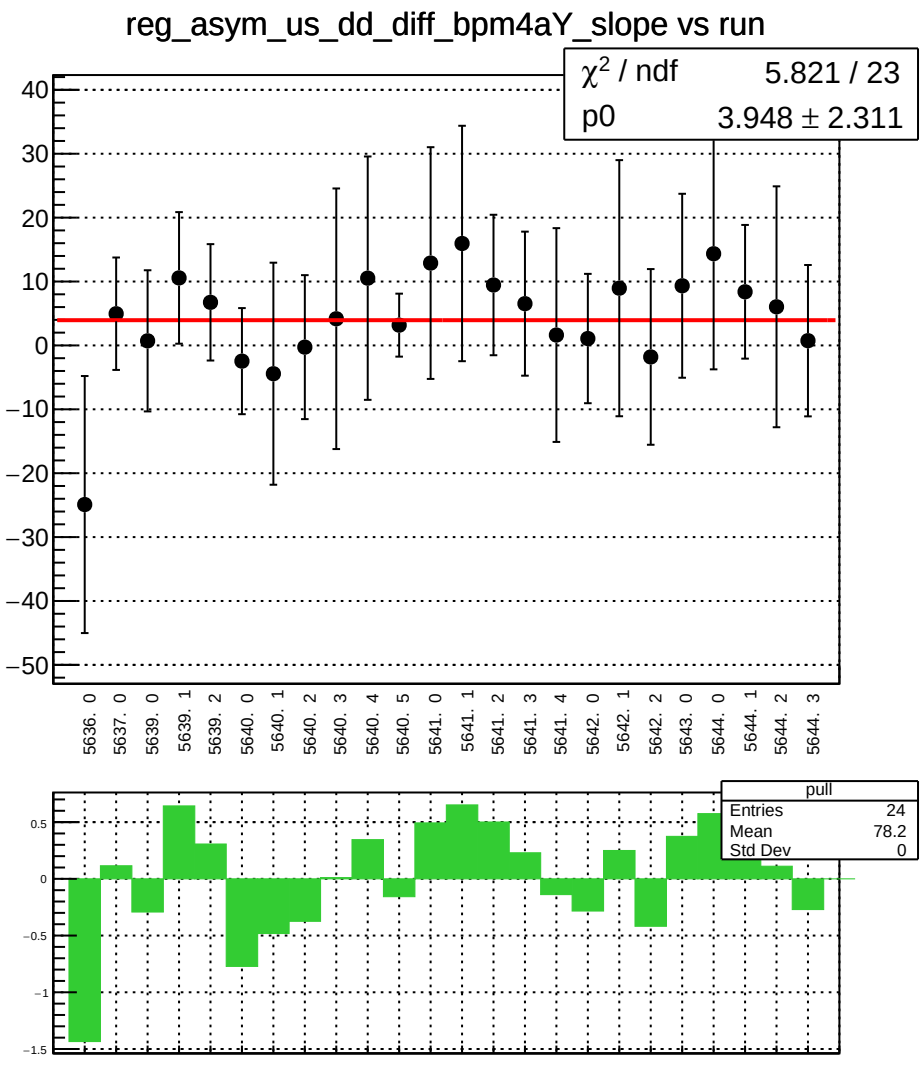

pull1D
Entries 24
Mean −0.002397
Std Dev 0.3753
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

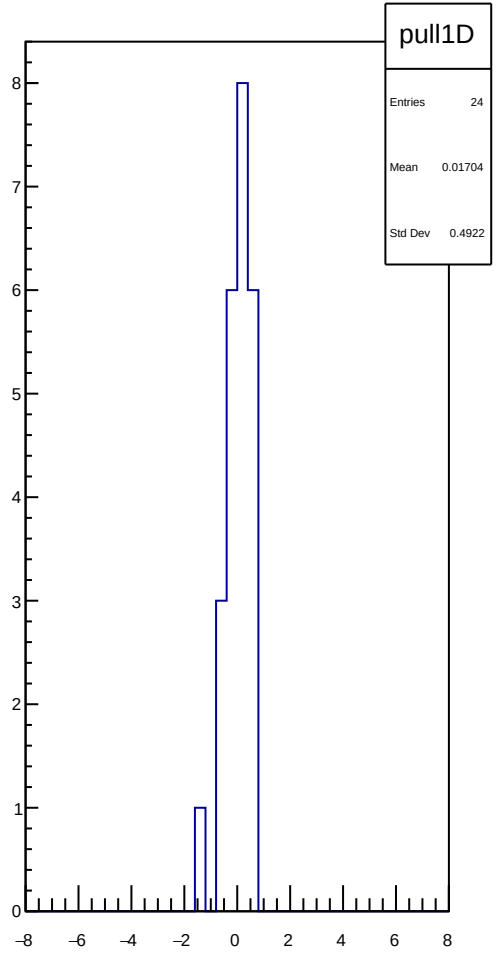

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.726 / 23
p0 19.95 ± 3.985
60
40
20
0
−20
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 21.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 24
Mean −0.1341
Std Dev 0.5121
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

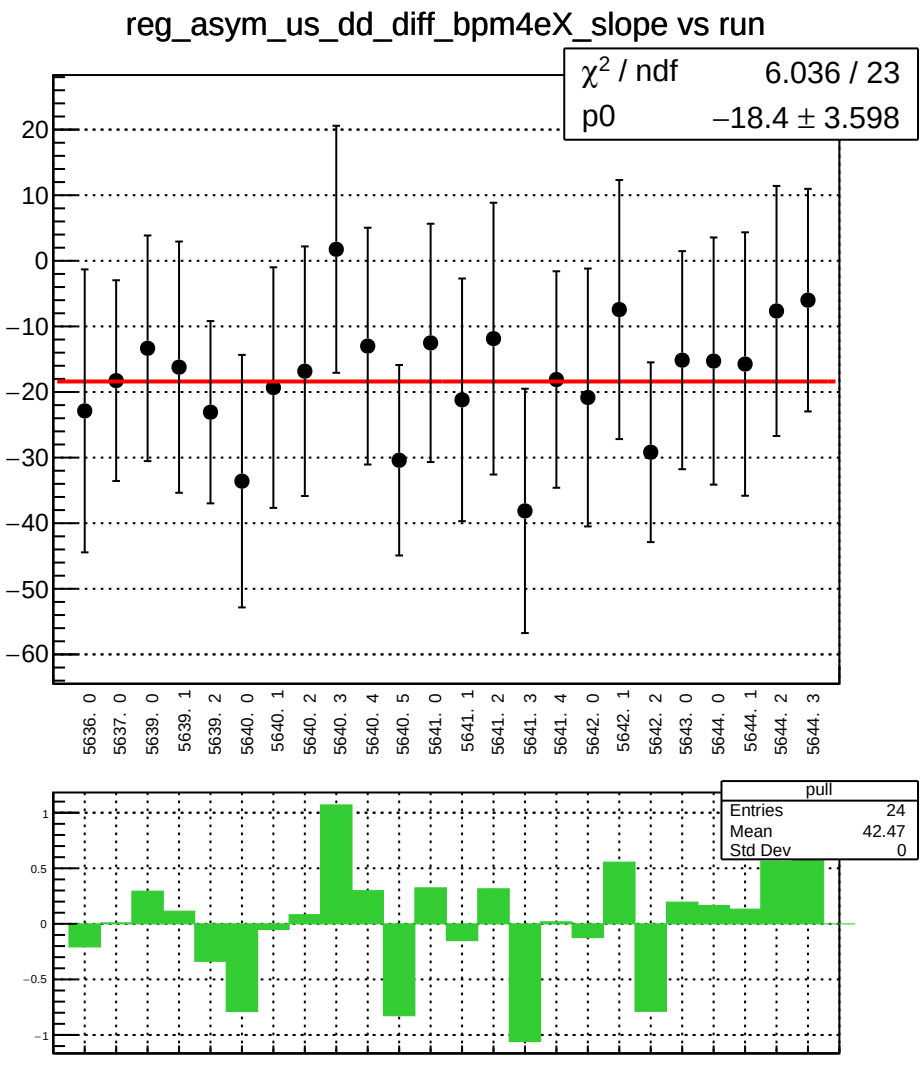

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 50.06 / 23
p0 −69.7 ± 0.199
−67
−68
−69
−70
−71
−72
−73
−74
−75
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 65.79
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean −0.05904
Std Dev 1.443
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

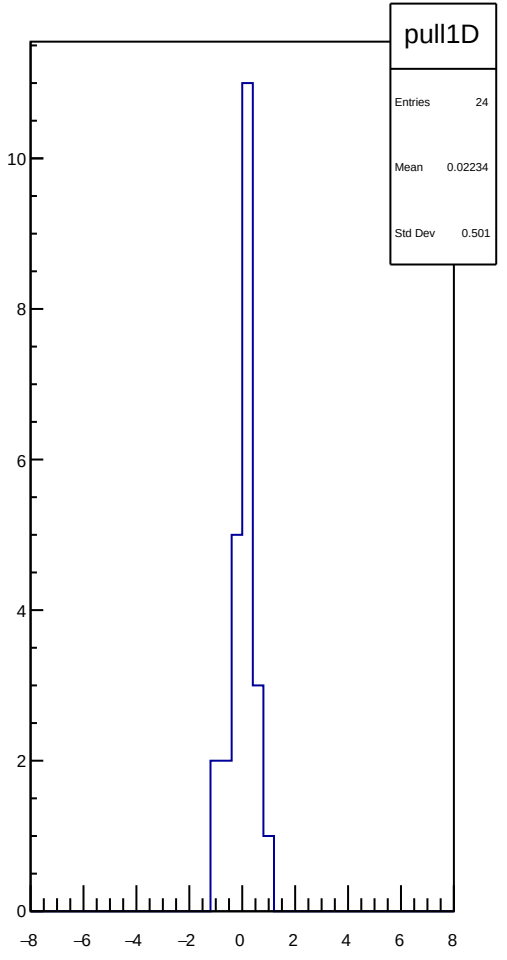

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 6.039 / 23
p0 −43.92 ± 4.146
0
−20
−40
−60
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 41.75
Std Dev 0
1
0.5
0
−0.5
−1

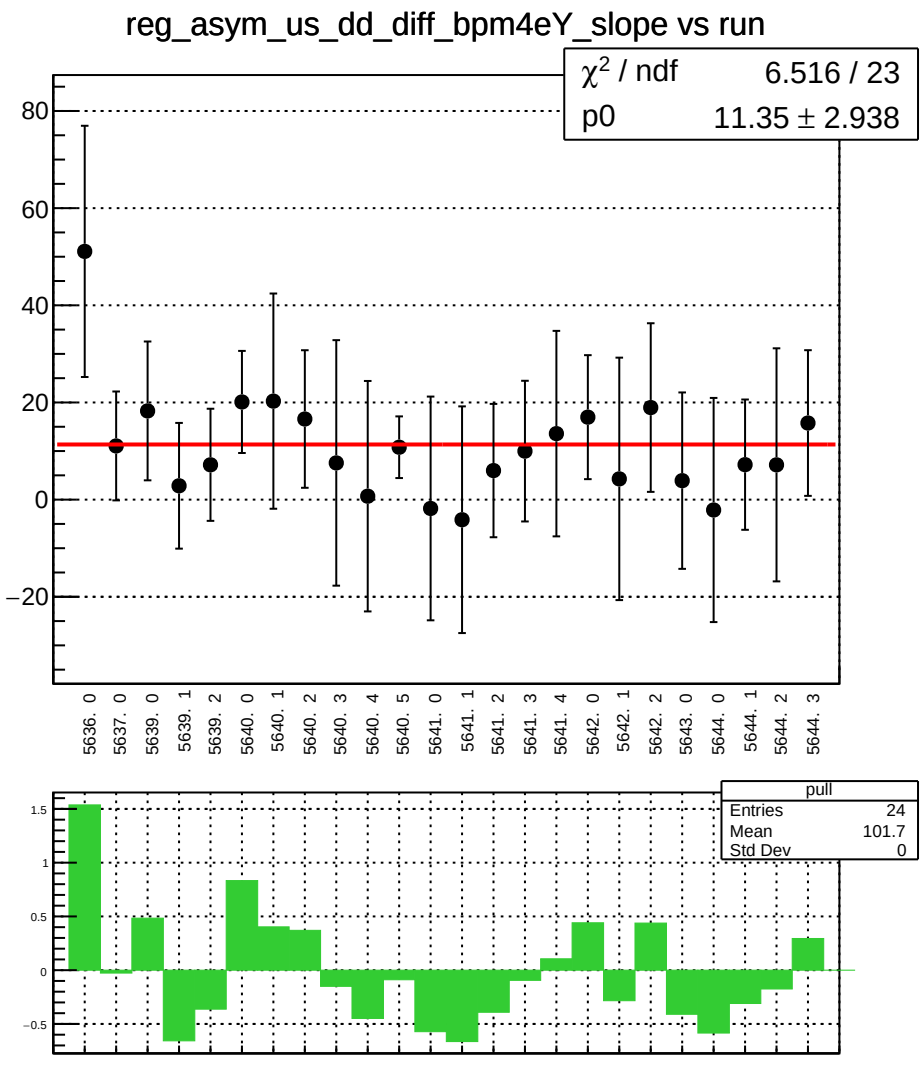

pull1D
Entries 24
Mean −0.02322
Std Dev 0.5011
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

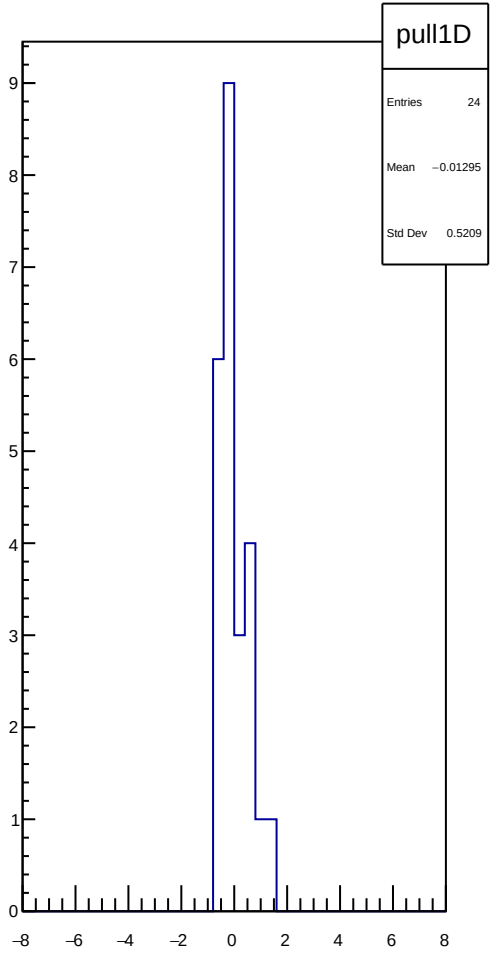

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.821 / 23
p0 3.948 ± 2.311
40
30
20
10
0
−10
−20
−30
−40
−50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 78.2
Std Dev 0
0.5
0
−0.5
−1
−1.5

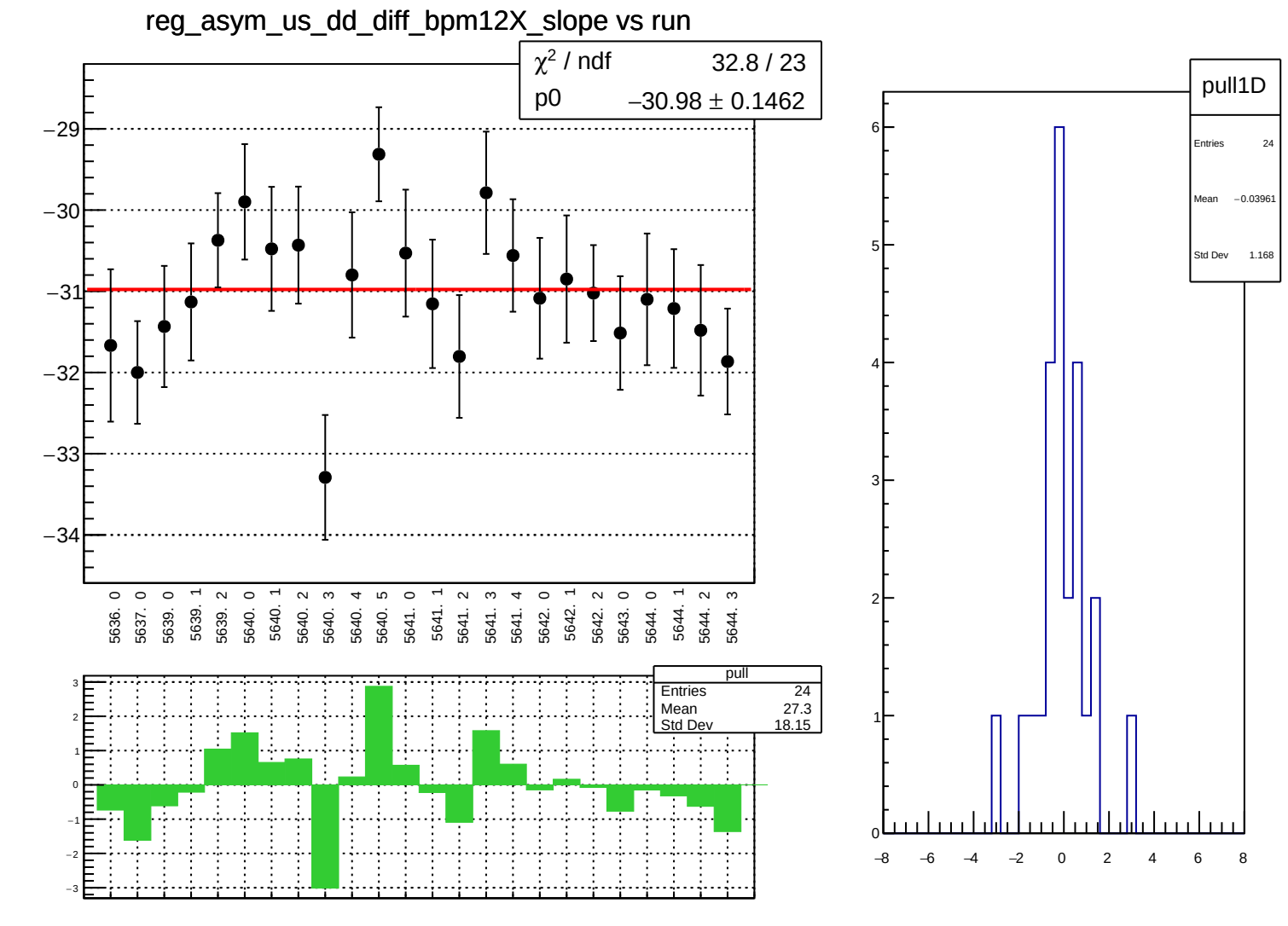

pull1D
Entries 24
Mean 0.01704
Std Dev 0.4922
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

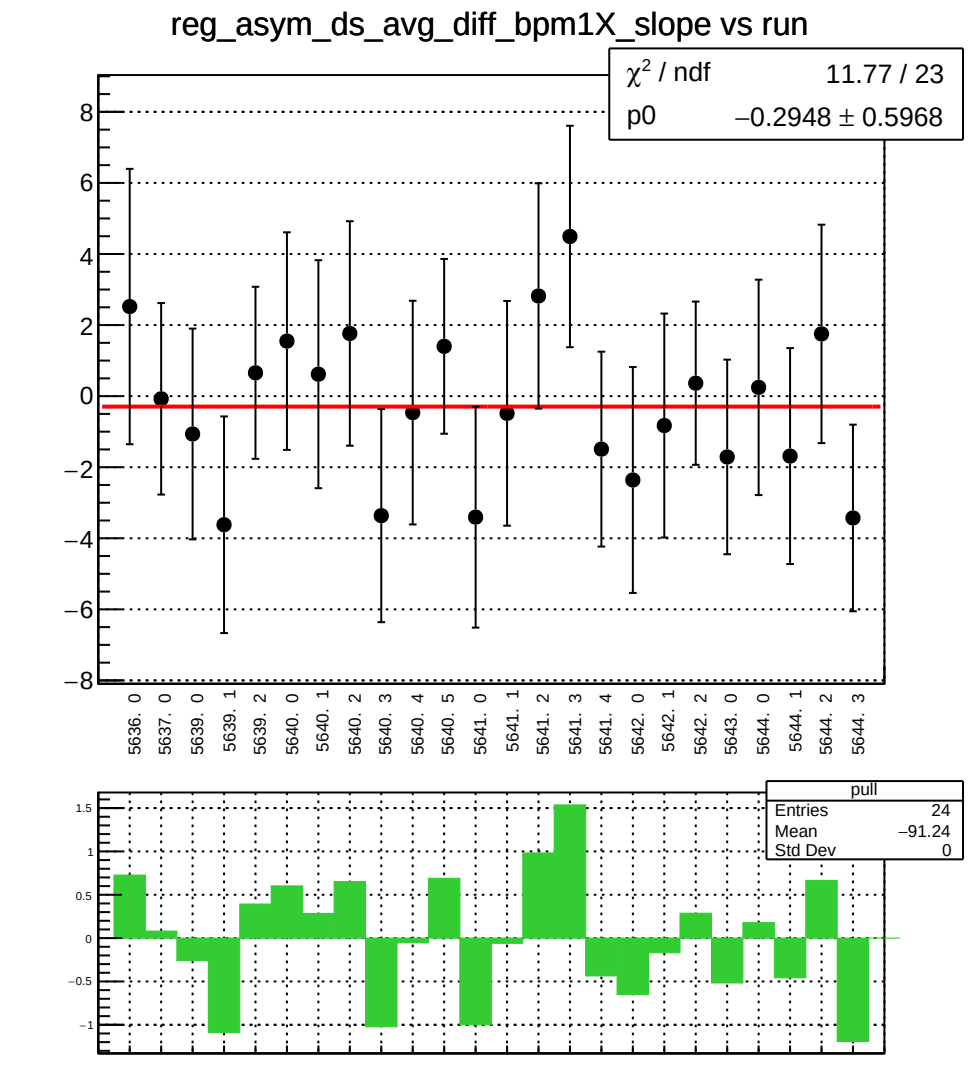

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.036 / 23
p0 −18.4 ± 3.598
20
10
0
−10
−20
−30
−40
−50
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 42.47
Std Dev 0
1
0.5
0
−0.5
−1

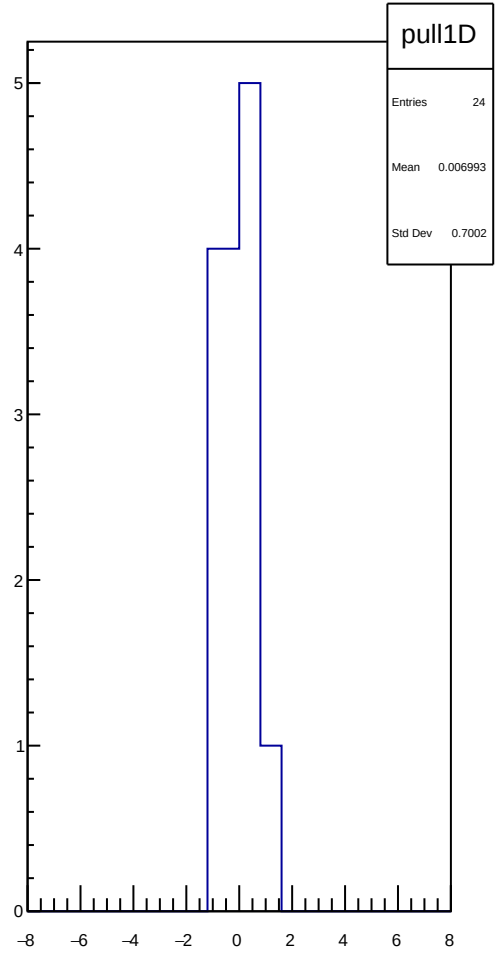

pull1D
Entries 24
Mean 0.02234
Std Dev 0.501
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

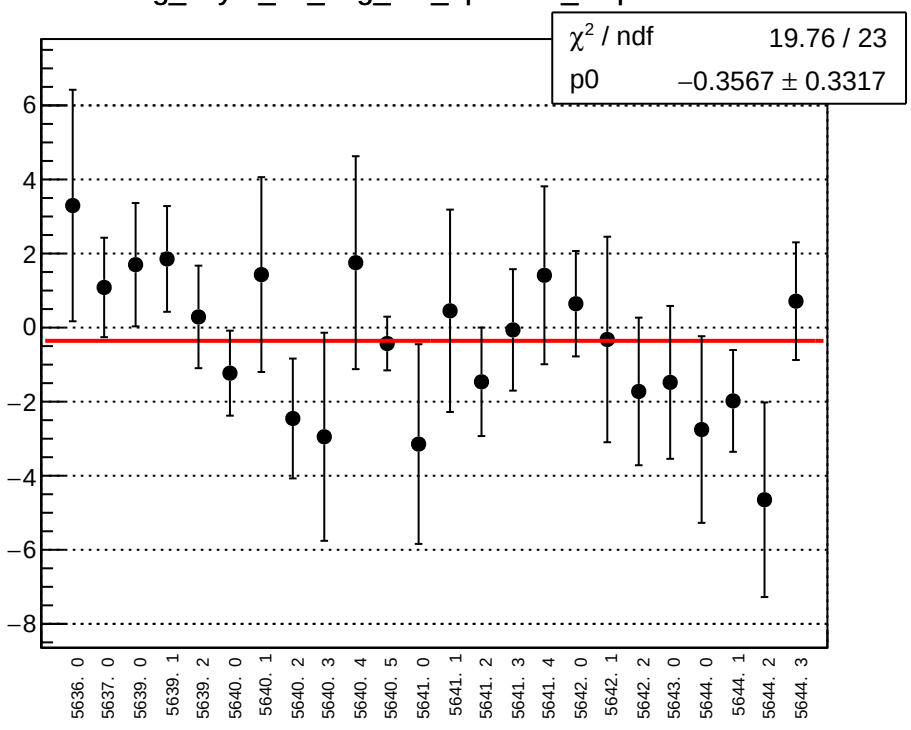

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.516 / 23
p0 11.35 ± 2.938
80
60
40
20
0
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 101.7
Std Dev 0
1.5
1
0.5
0
−0.5

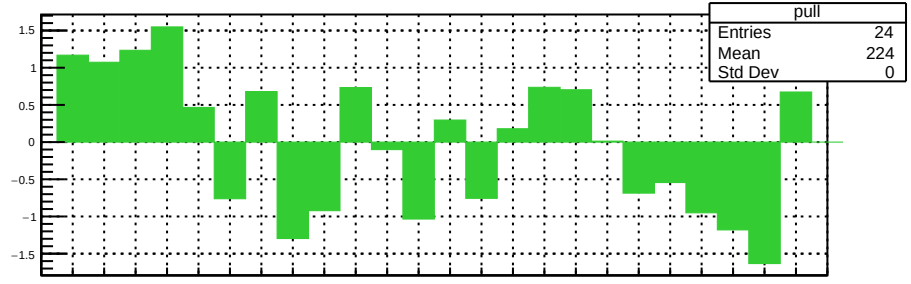

pull1D
Entries 24
Mean −0.01295
Std Dev 0.5209
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

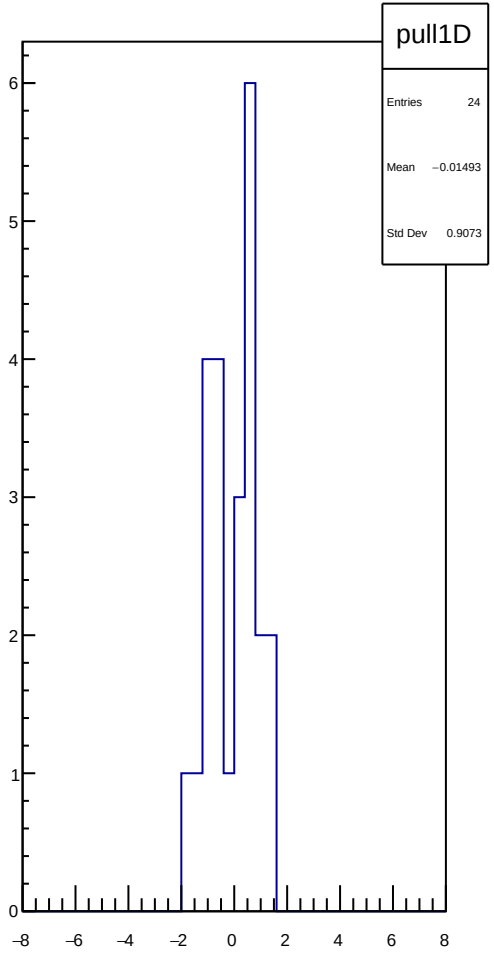

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 32.8 / 23
p0 −30.98 ± 0.1462
−29
−30
−31
−32
−33
−34
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 27.3
Std Dev 18.15
pull1D
Entries 24
Mean −0.03961
Std Dev 1.168

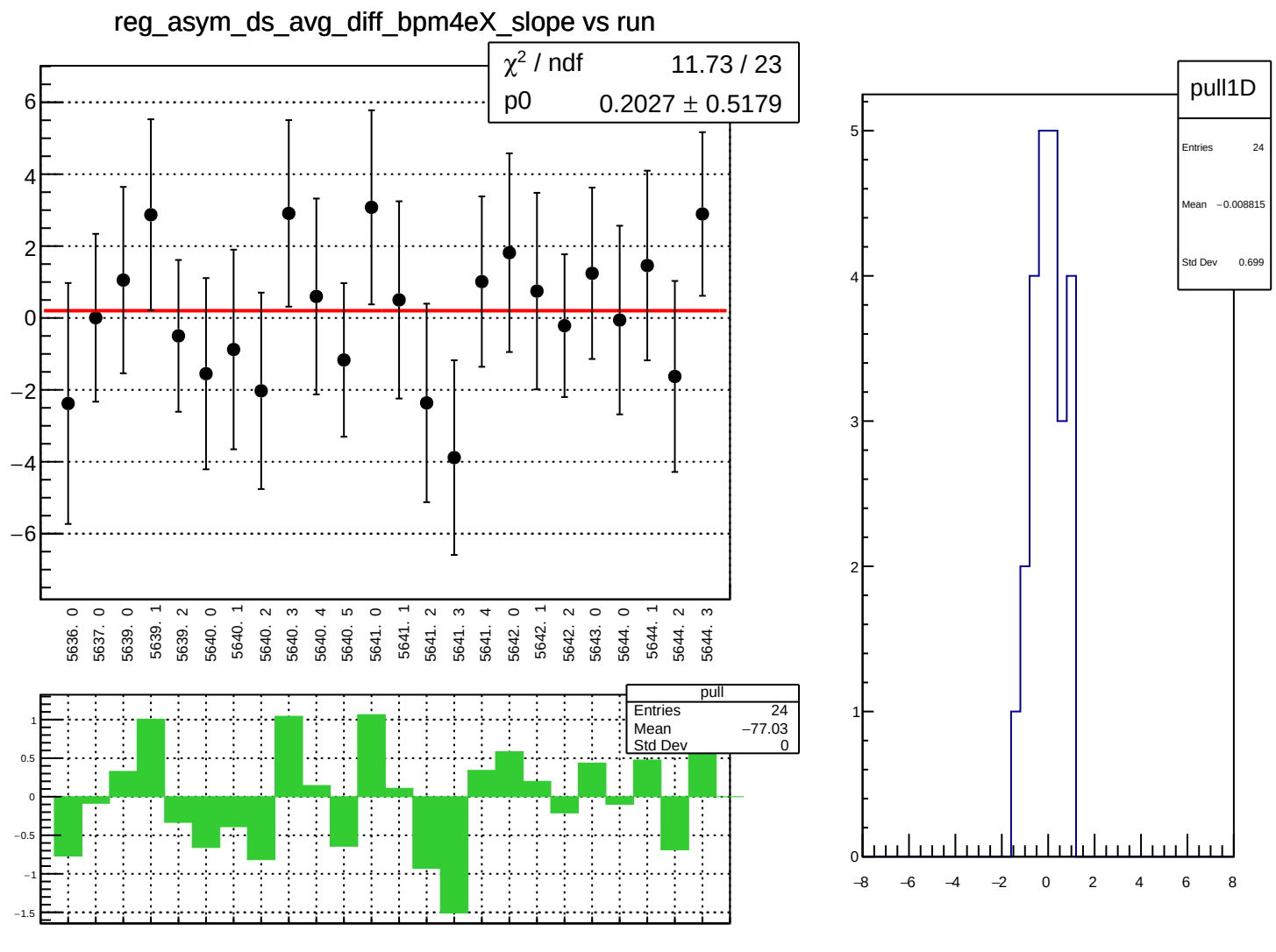

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 11.77 / 23
p0 −0.2948 ± 0.5968
8
6
4
2
0
−2
−4
−6
−8
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −91.24
Std Dev 0
1.5
1
0.5
0
−0.5
−1

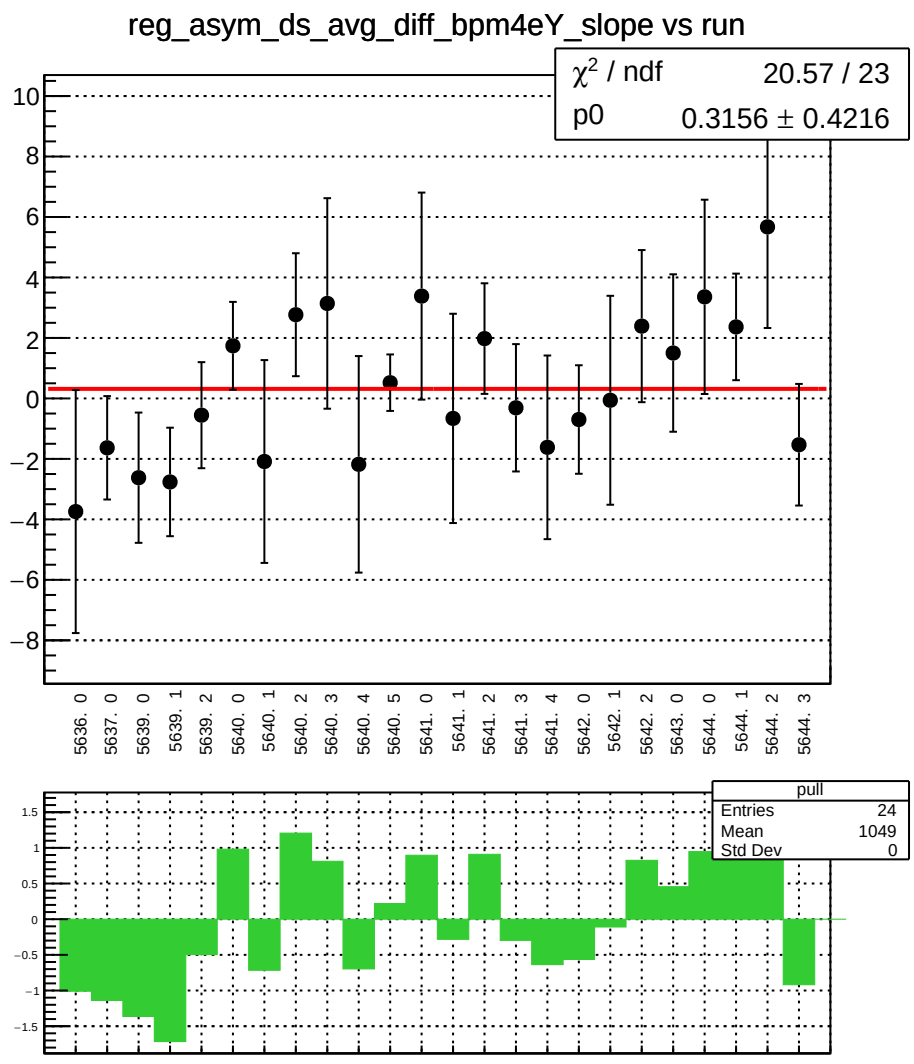

pull1D
Entries 24
Mean 0.006993
Std Dev 0.7002
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

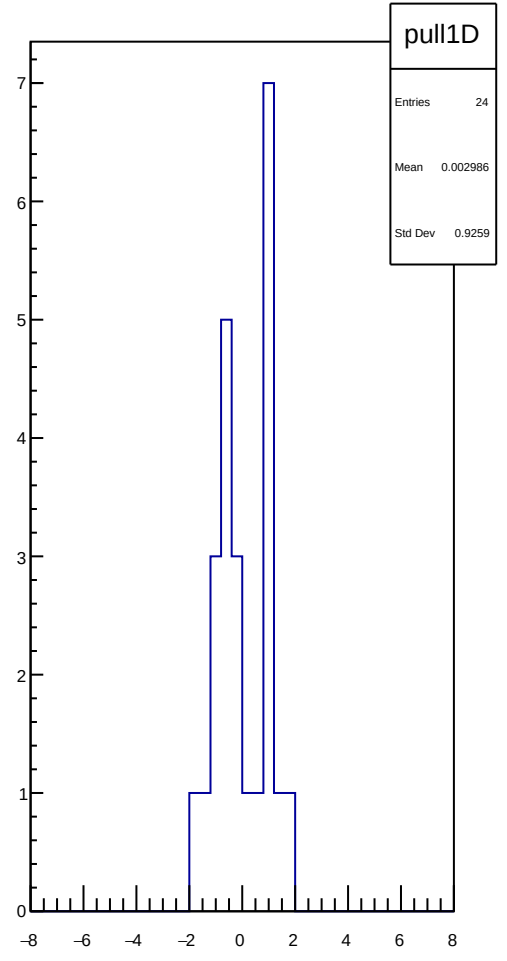

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 19.76 / 23
p0 −0.3567 ± 0.3317
6
4
2
0
−2
−4
−6
−8
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

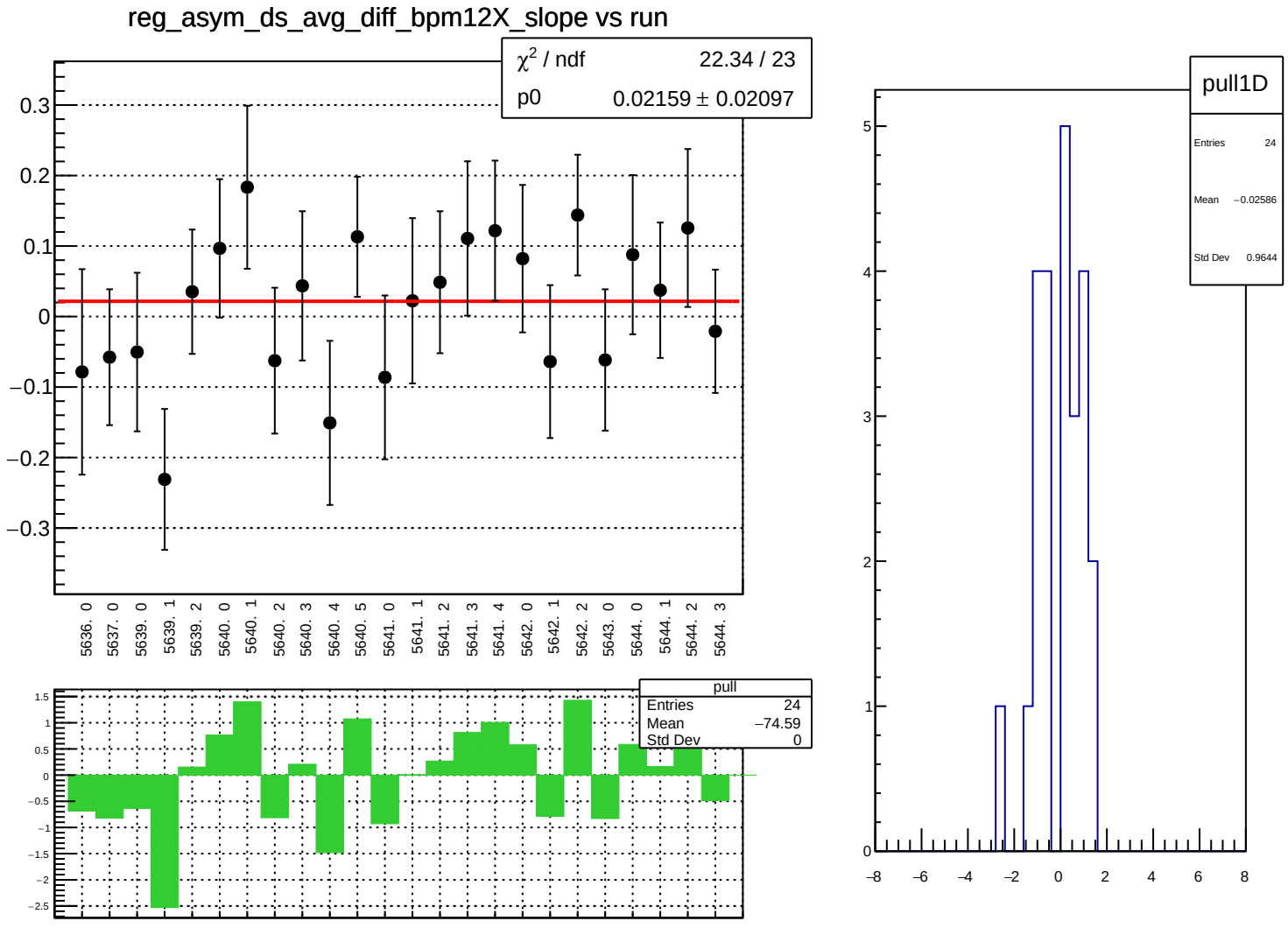

pull
Entries 24
Mean 224
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

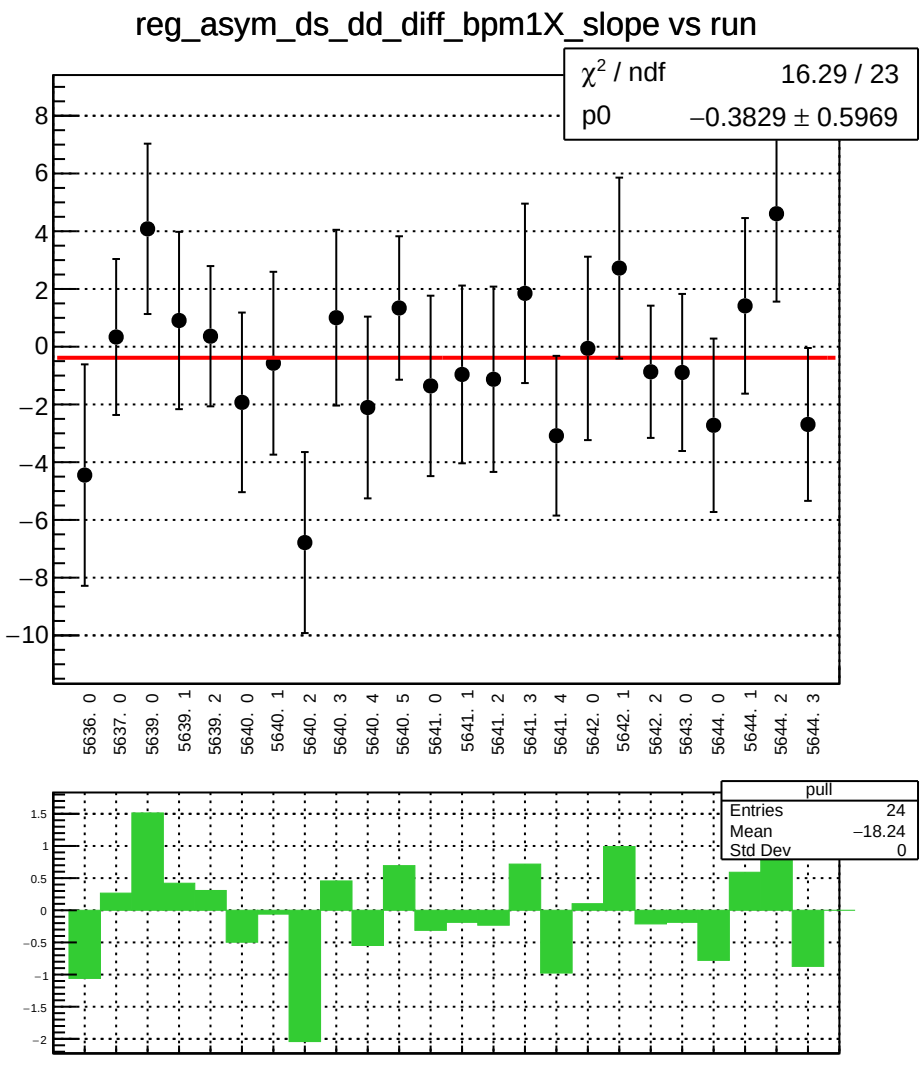

pull1D
Entries 24
Mean −0.01493
Std Dev 0.9073
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

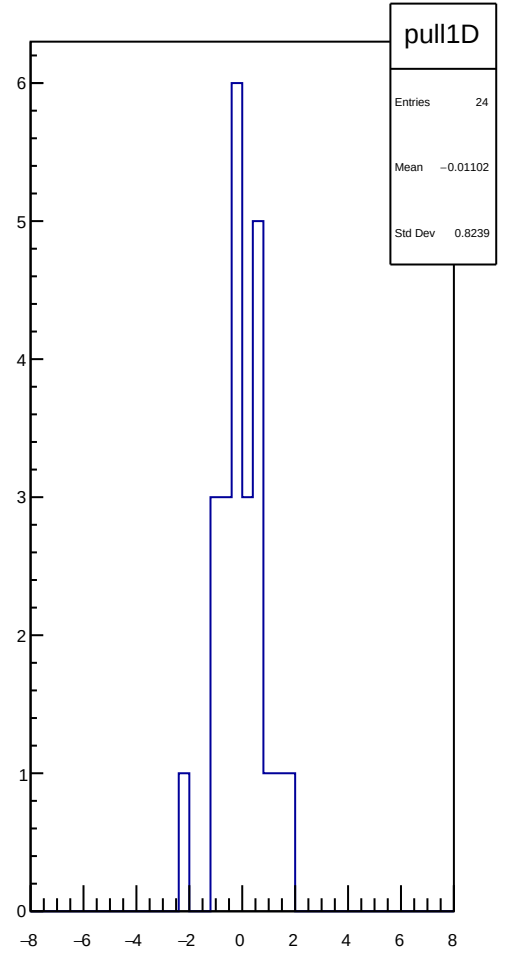

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.73 / 23
p0 0.2027 ± 0.5179
6
4
2
0
−2
−4
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −77.03
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.008815
Std Dev 0.699
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

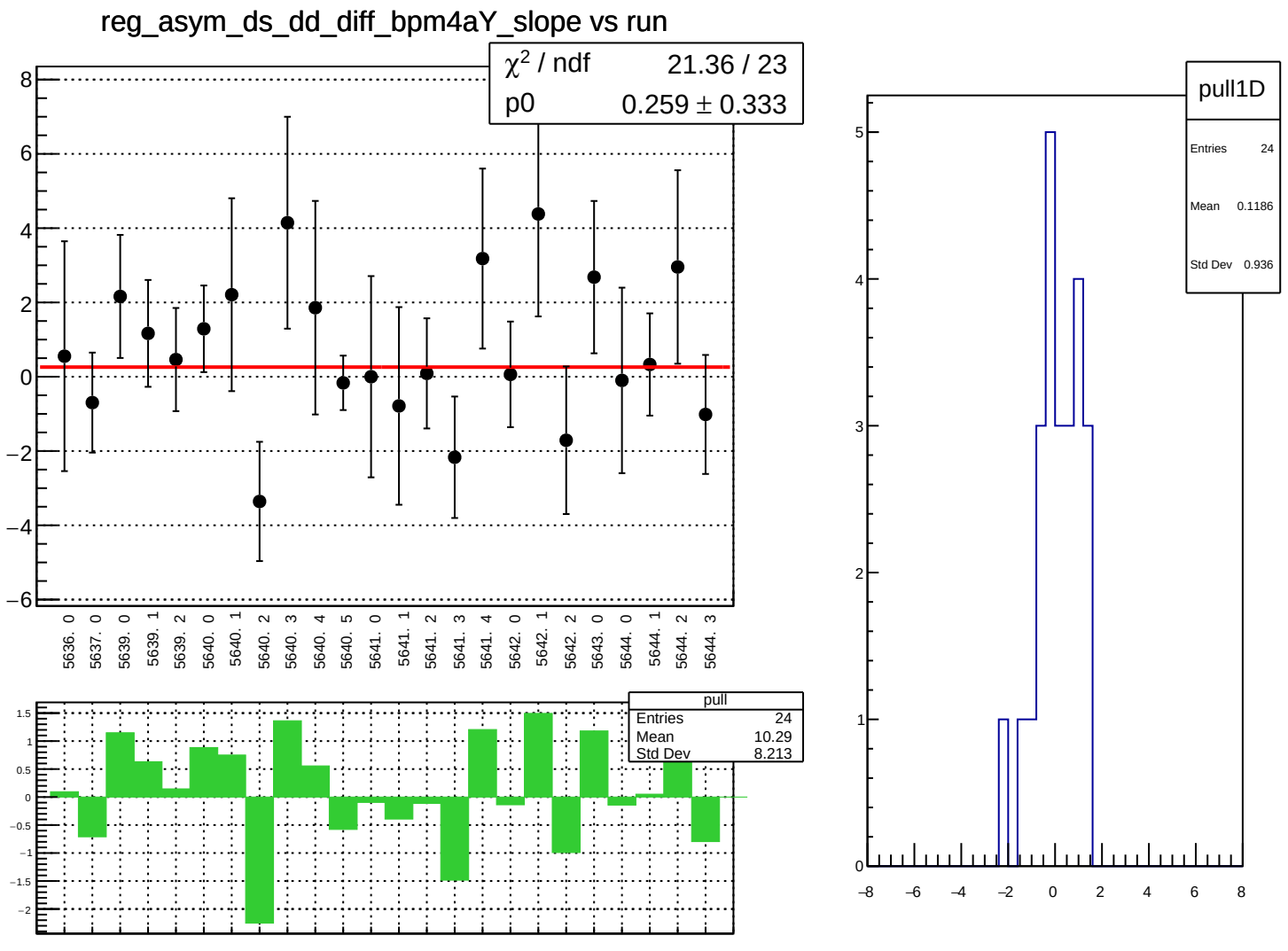

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.57 / 23
p0 0.3156 ± 0.4216
10
8
6
4
2
0
−2
−4
−6
−8
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 1049
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

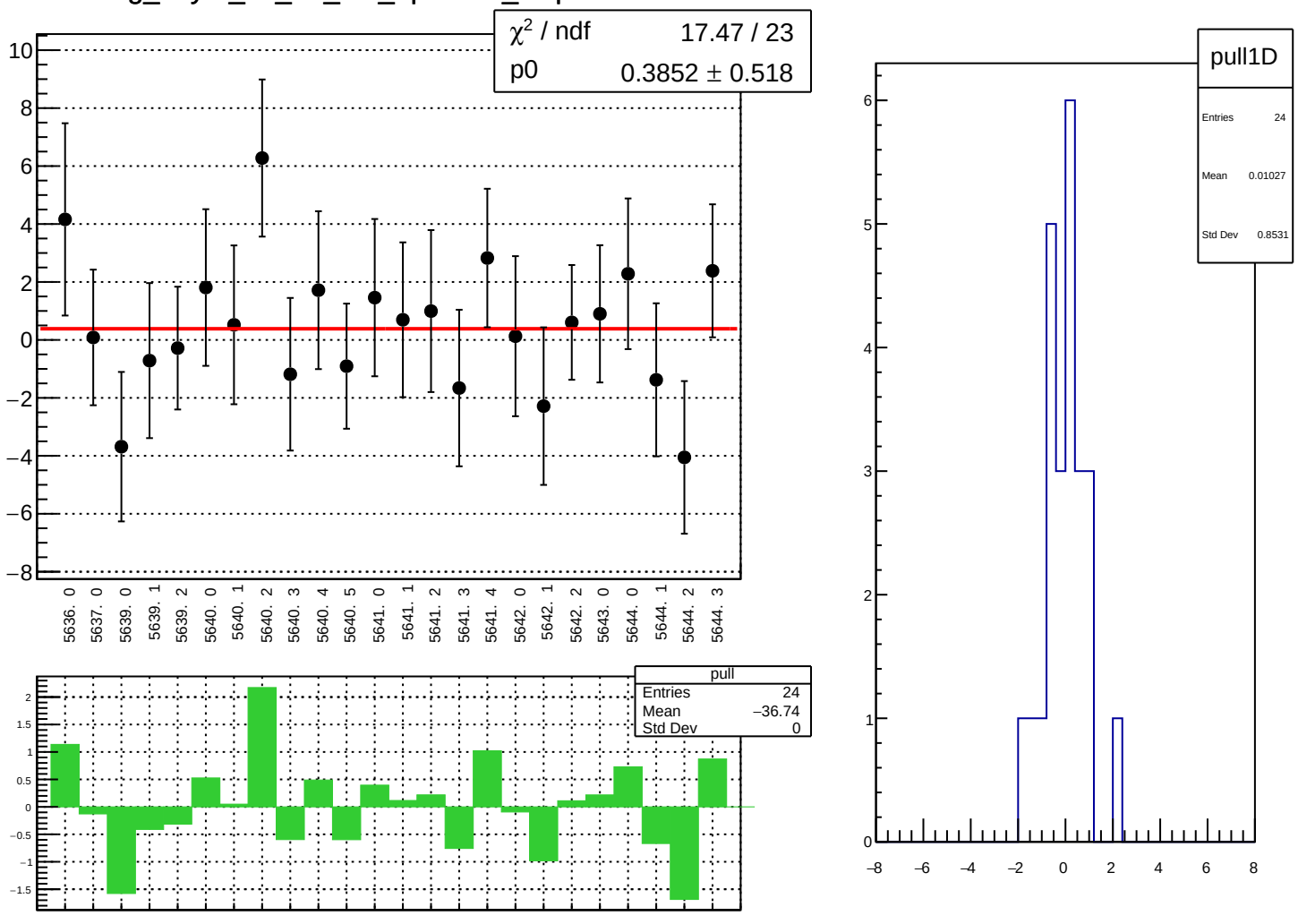

pull1D
Entries 24
Mean 0.002986
Std Dev 0.9259
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

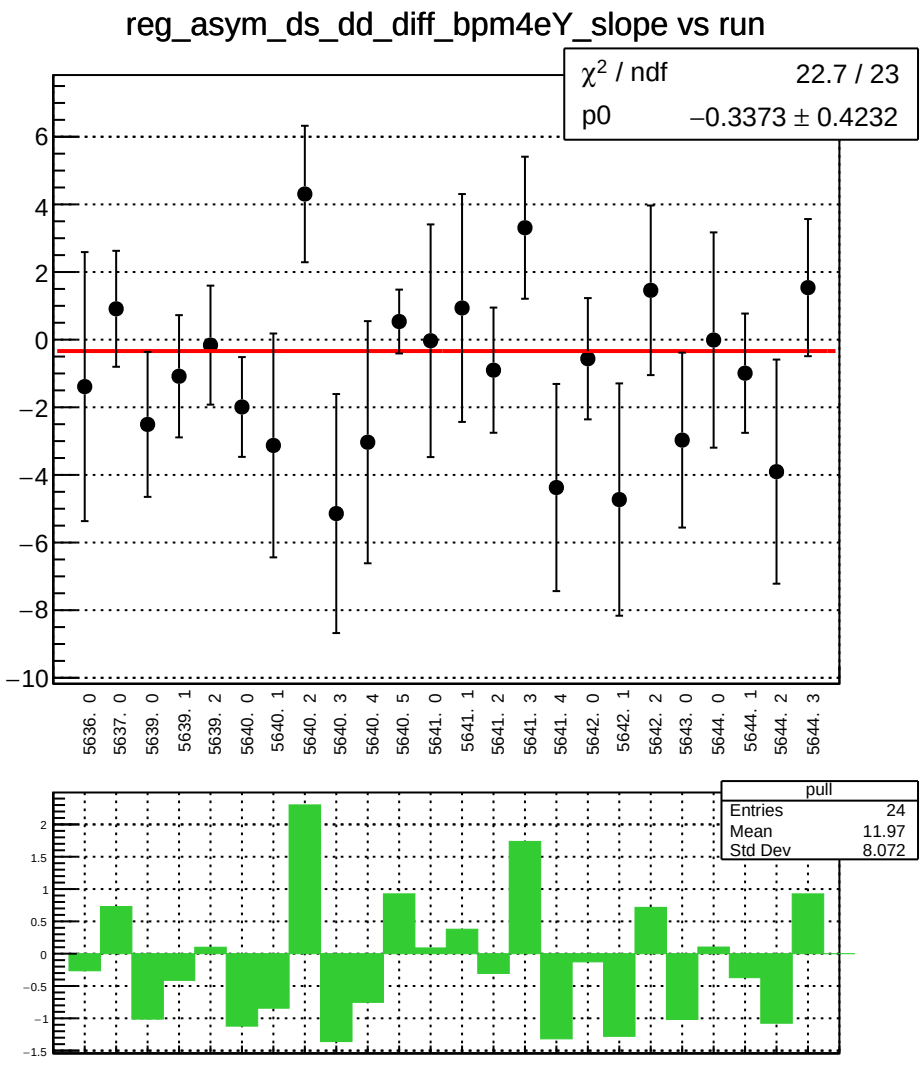

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 22.34 / 23
p0 0.02159 ± 0.02097
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −74.59
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean −0.02586
Std Dev 0.9644
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

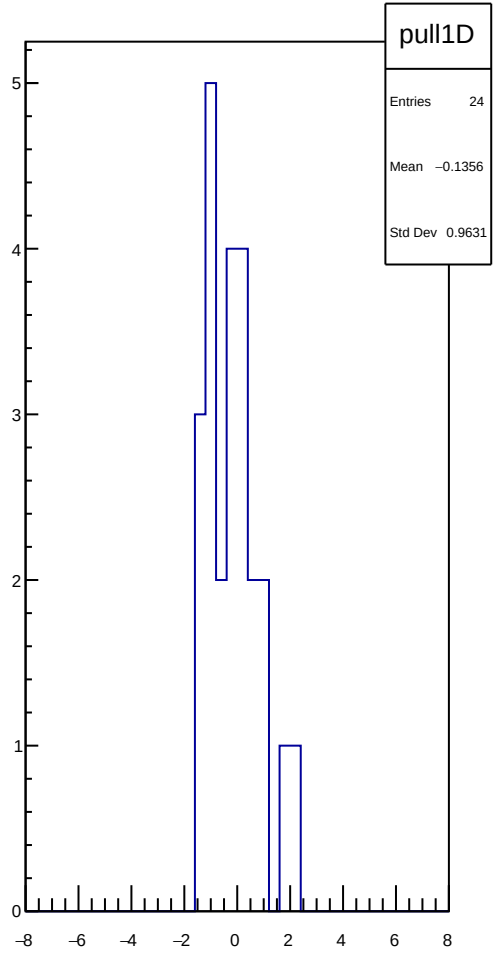

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 16.29 / 23
p0 −0.3829 ± 0.5969
8
6
4
2
0
−2
−4
−6
−8
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −18.24
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

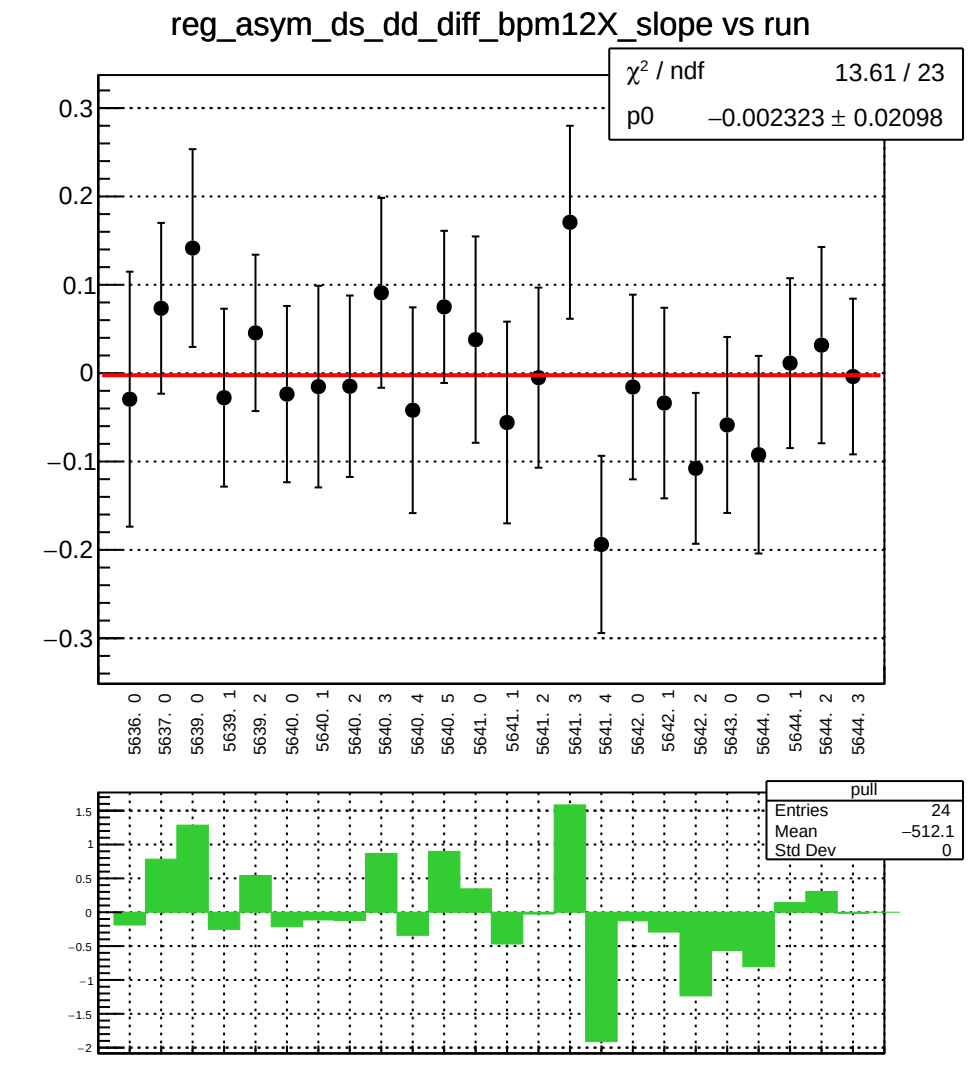

pull1D
Entries 24
Mean −0.01102
Std Dev 0.8239
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

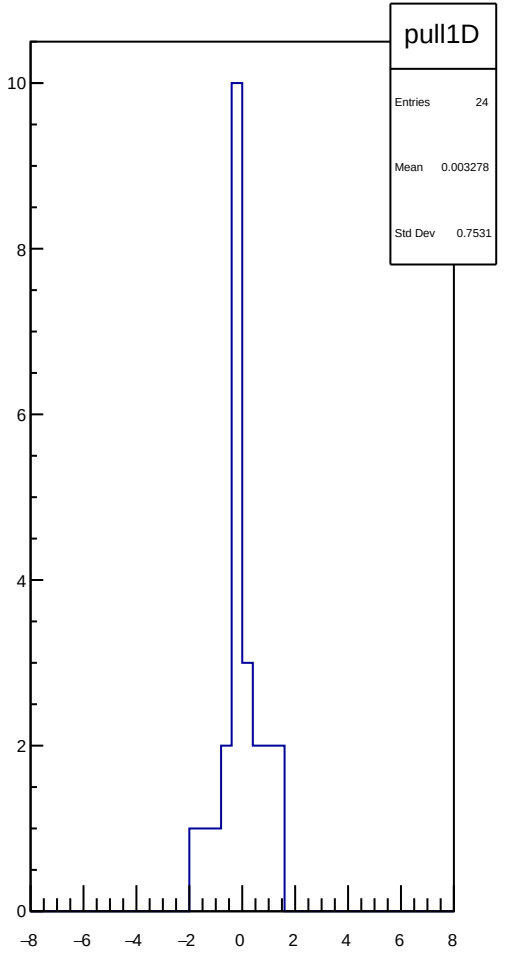

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.36 / 23
p0 0.259 ± 0.333
8
6
4
2
0
−2
−4
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 10.29
Std Dev 8.213
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.1186
Std Dev 0.936
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

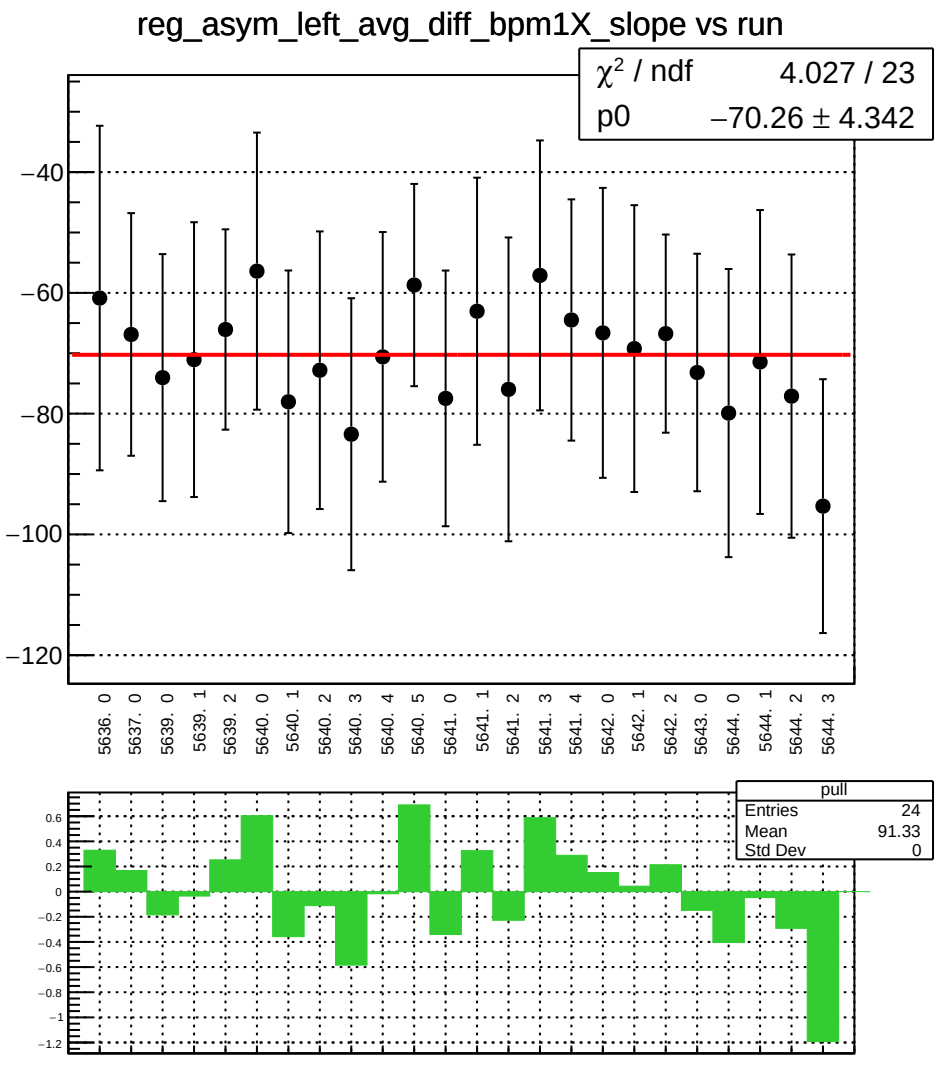

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.47 / 23
p0 0.3852 ± 0.518
10
8
6
4
2
0
−2
−4
−6
−8
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −36.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.01027
Std Dev 0.8531
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

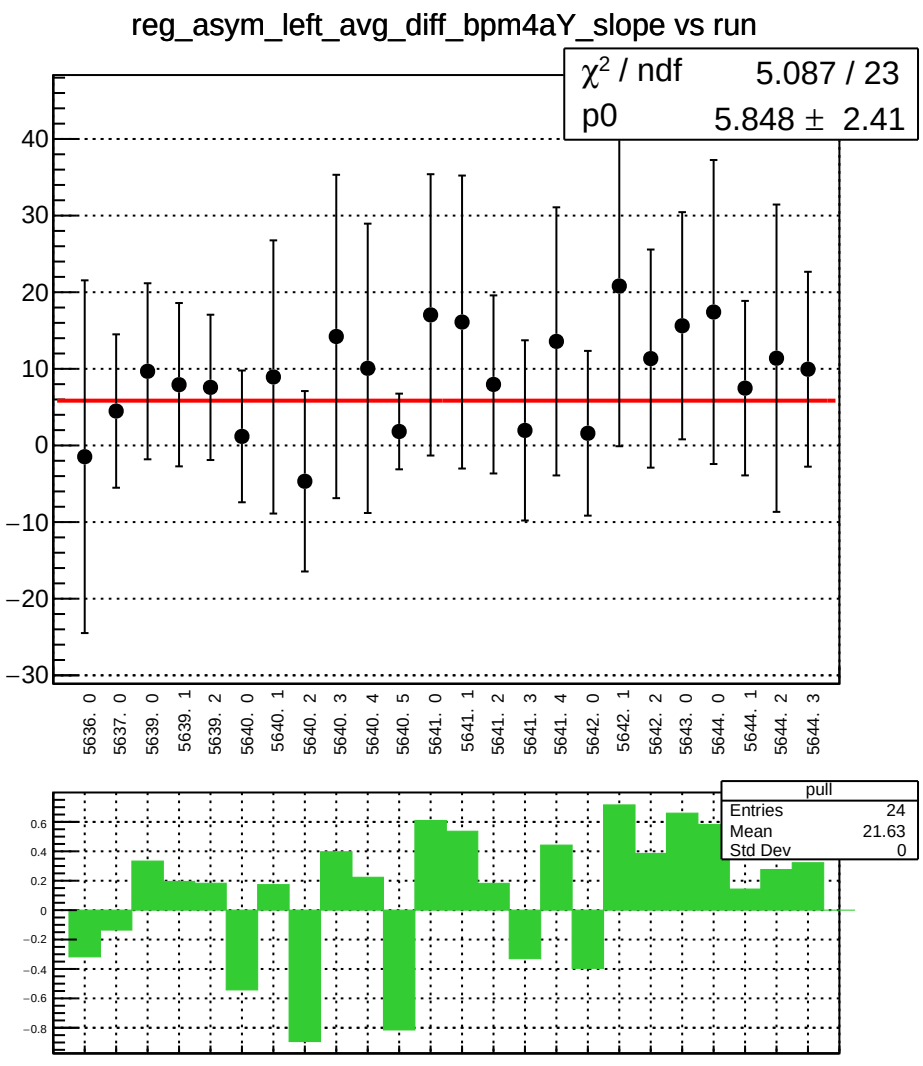

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.7 / 23
p0 −0.3373 ± 0.4232
6
4
2
0
−2
−4
−6
−8
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 11.97
Std Dev 8.072
2
1.5
1
0.5
0
−0.5
−1
−1.5

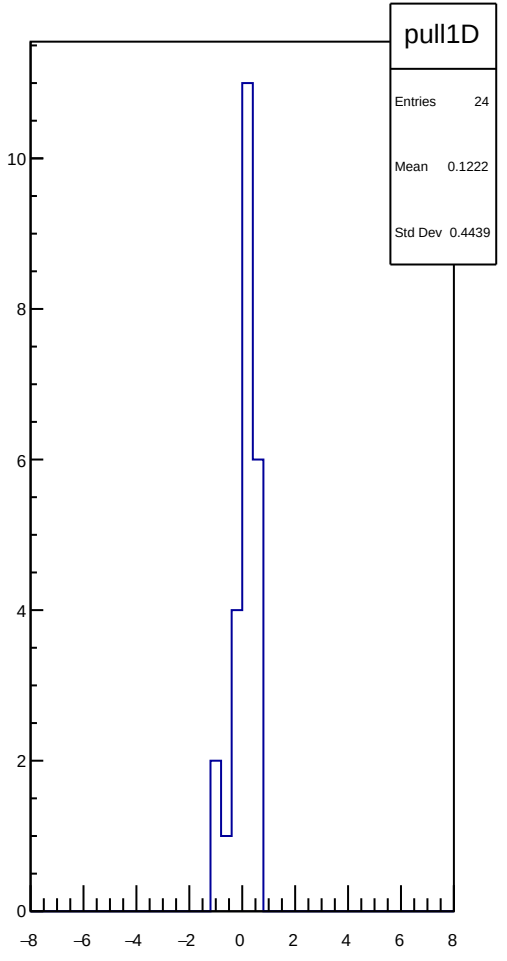

pull1D
Entries 24
Mean −0.1356
Std Dev 0.9631
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

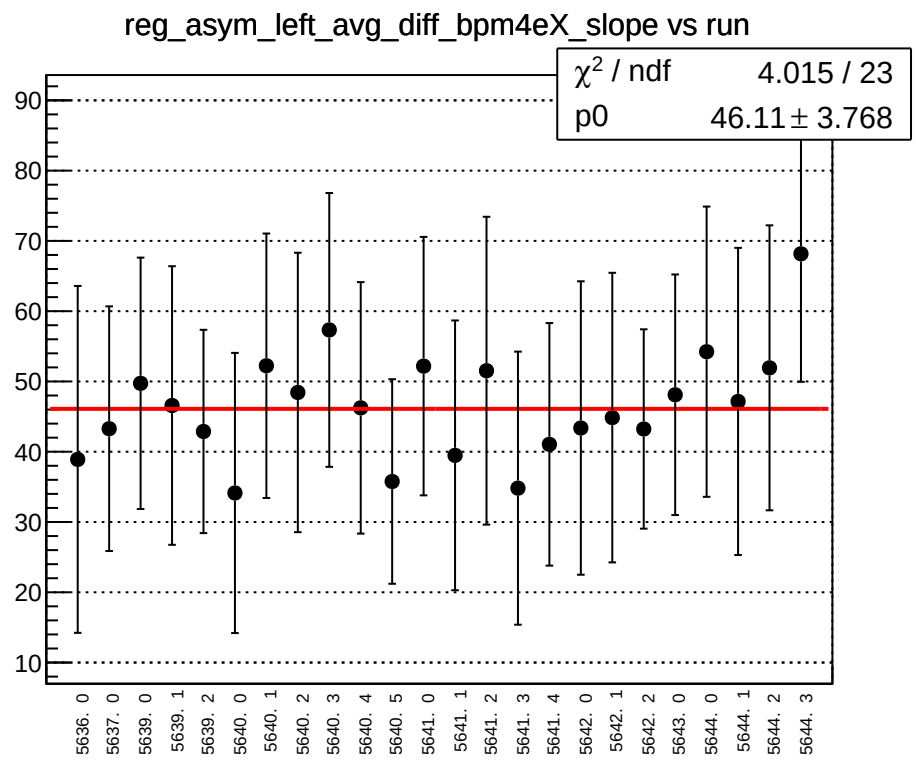

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 13.61 / 23
p0 −0.002323 ± 0.02098
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −512.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

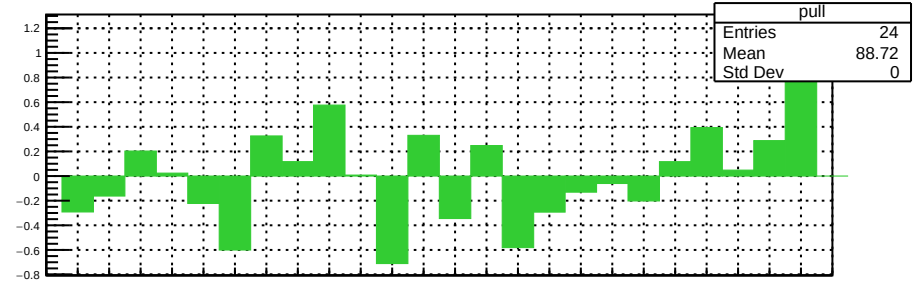

pull1D
Entries 24
Mean 0.003278
Std Dev 0.7531
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

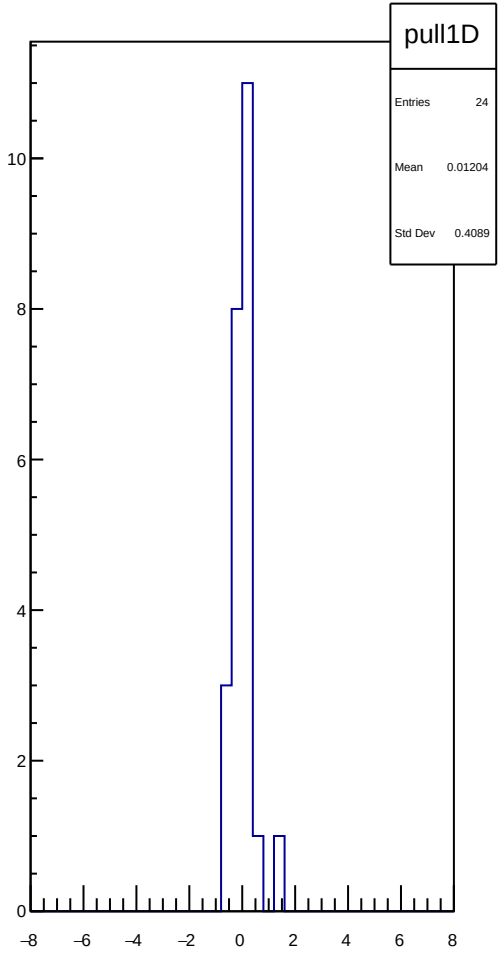

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 4.027 / 23
p0 −70.26 ± 4.342
−40
−60
−80
−100
−120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 91.33
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 24
Mean −0.01197
Std Dev 0.4094
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

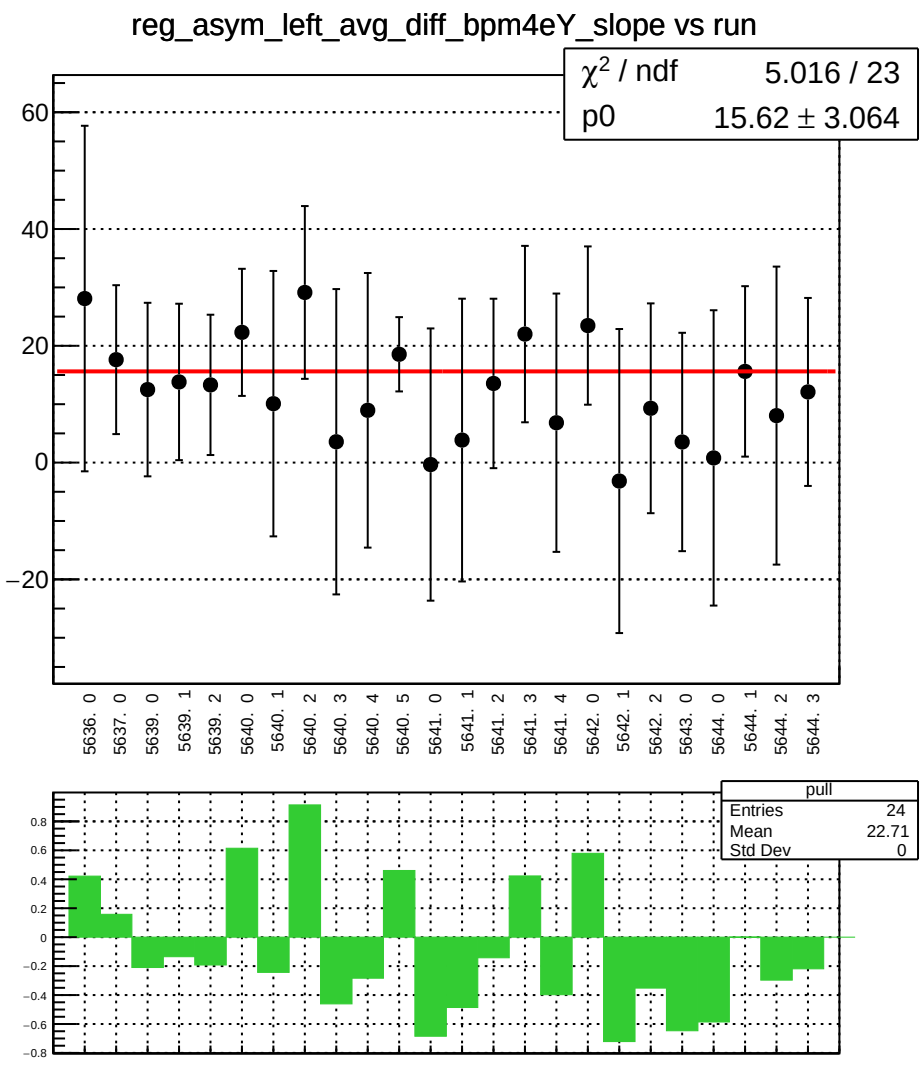

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.087 / 23
p0 5.848 ± 2.41
40
30
20
10
0
−10
−20
−30
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 21.63
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

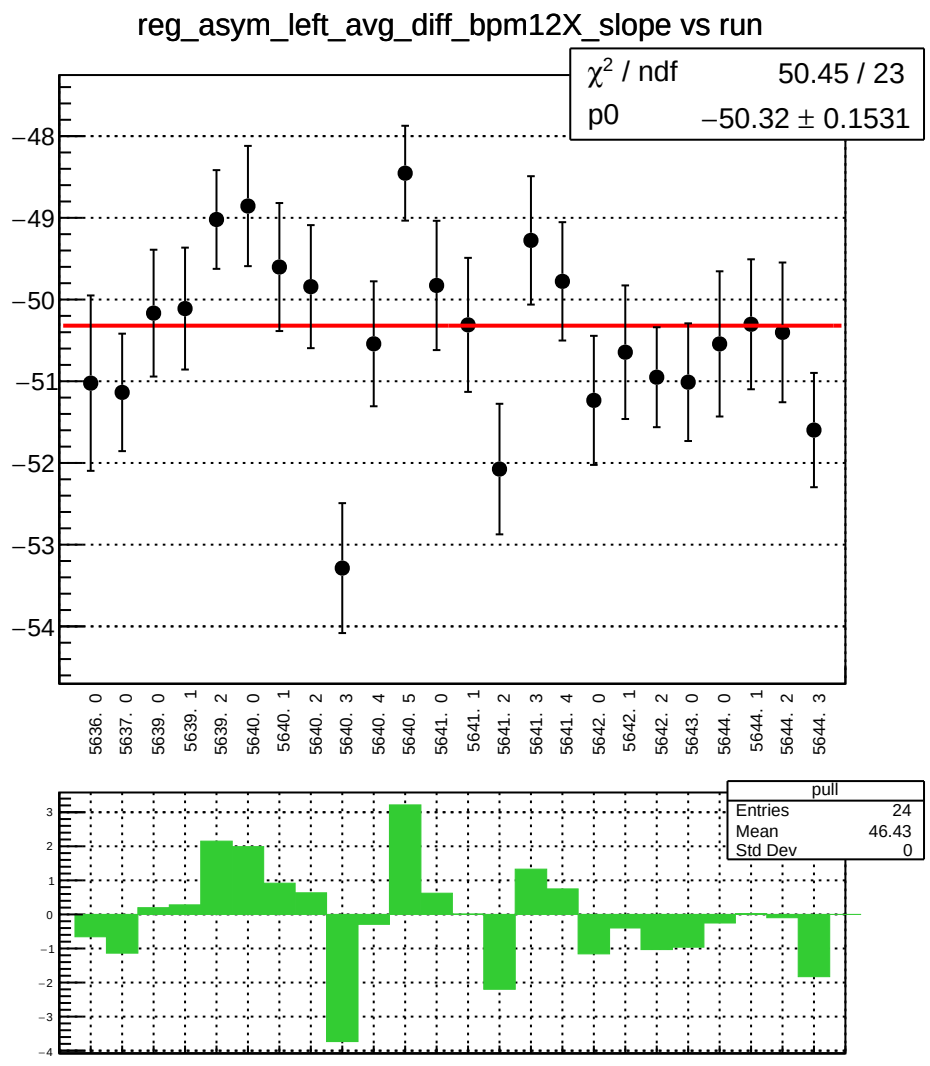

pull1D
Entries 24
Mean 0.1222
Std Dev 0.4439
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

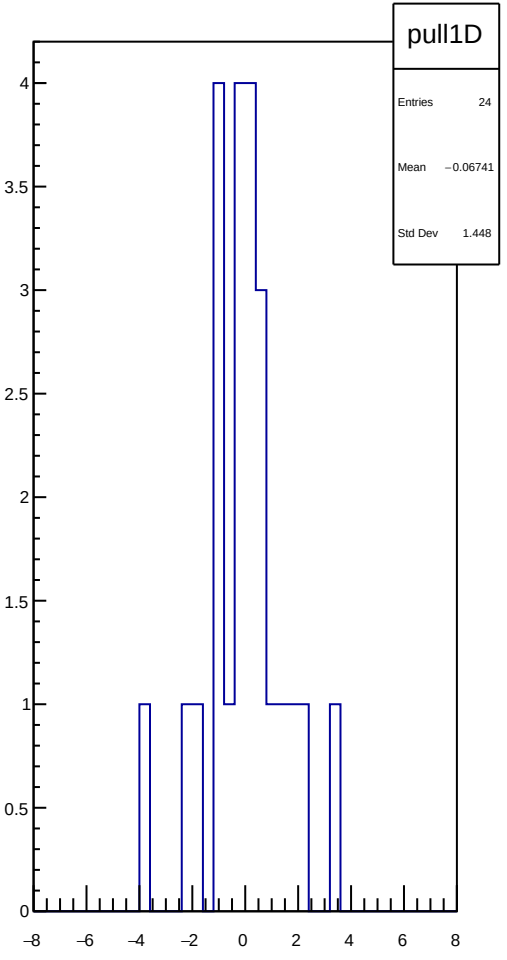

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.015 / 23
p0 46.11 ± 3.768
90
80
70
60
50
40
30
20
10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

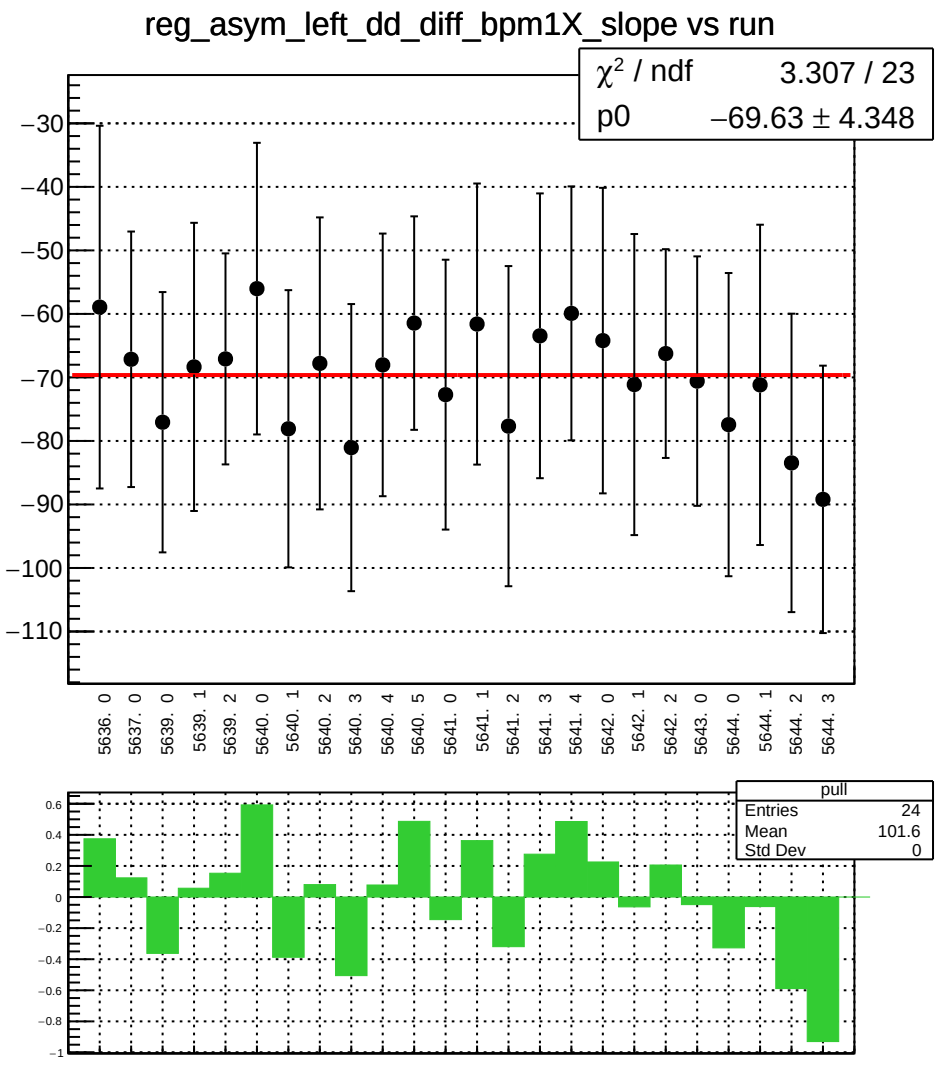

pull
Entries 24
Mean 88.72
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

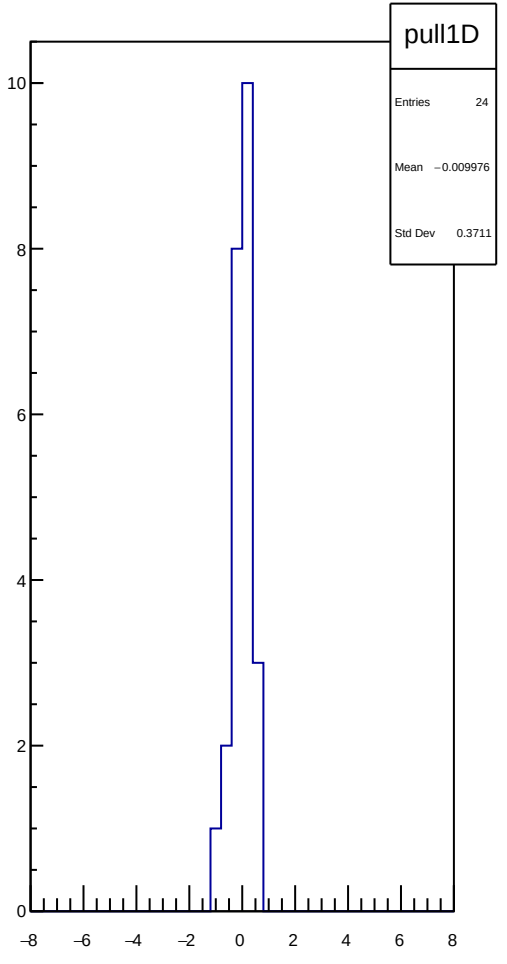

pull1D
Entries 24
Mean 0.01204
Std Dev 0.4089
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

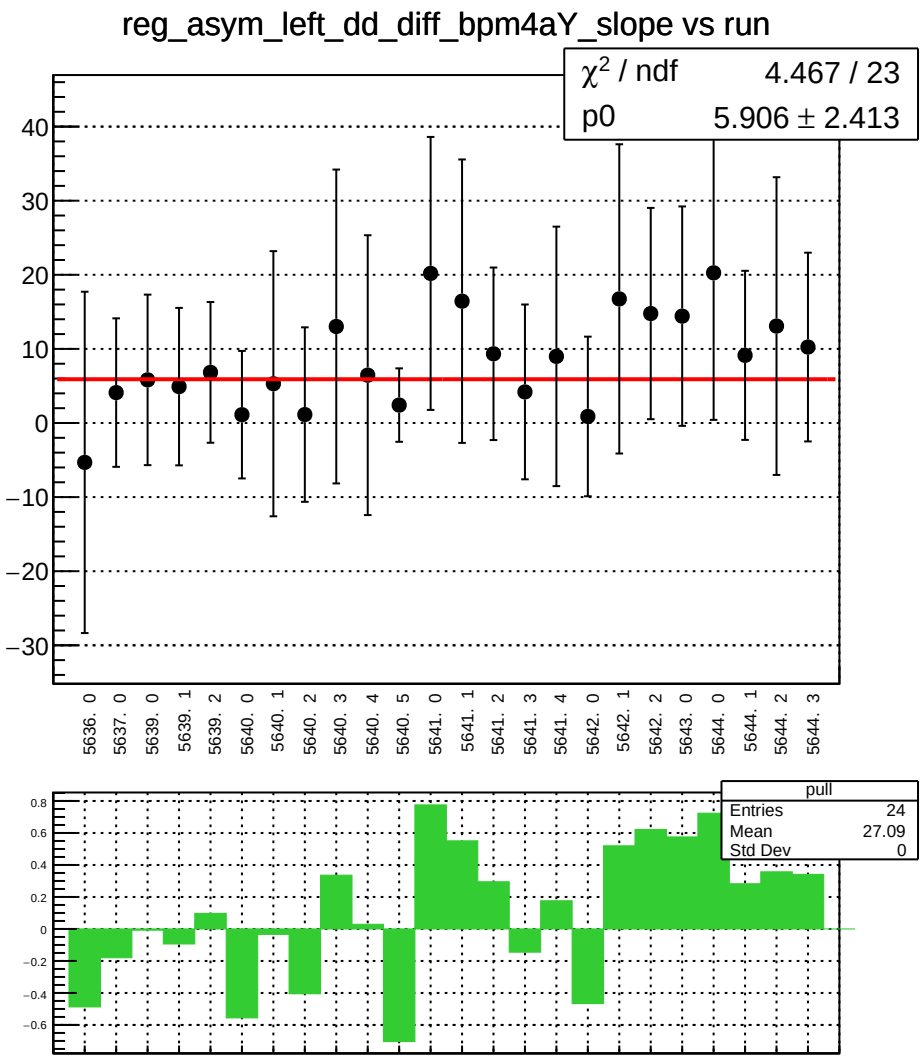

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.016 / 23
p0 15.62 ± 3.064
60
40
20
0
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 22.71
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean −0.1035
Std Dev 0.4453
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

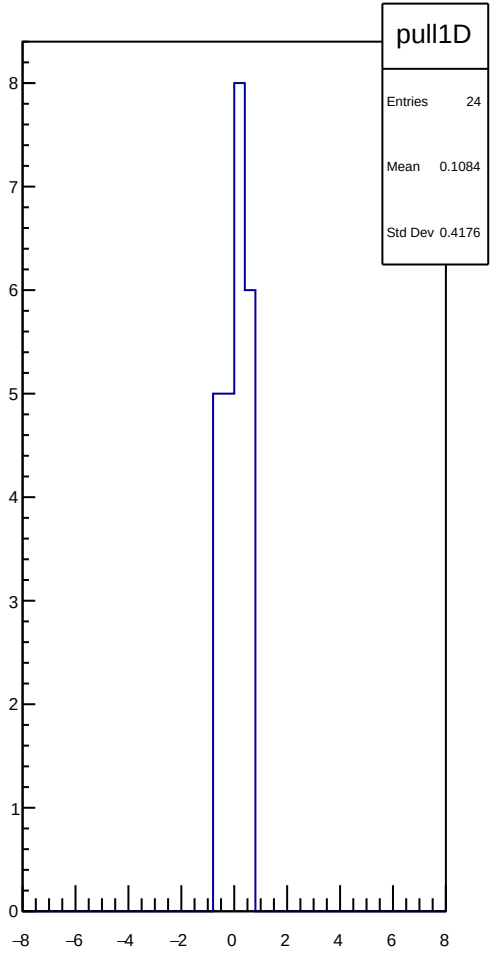

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 50.45 / 23
p0 −50.32 ± 0.1531
−48
−49
−50
−51
−52
−53
−54
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 46.43
Std Dev 0
3
2
1
0
−1
−2
−3
−4

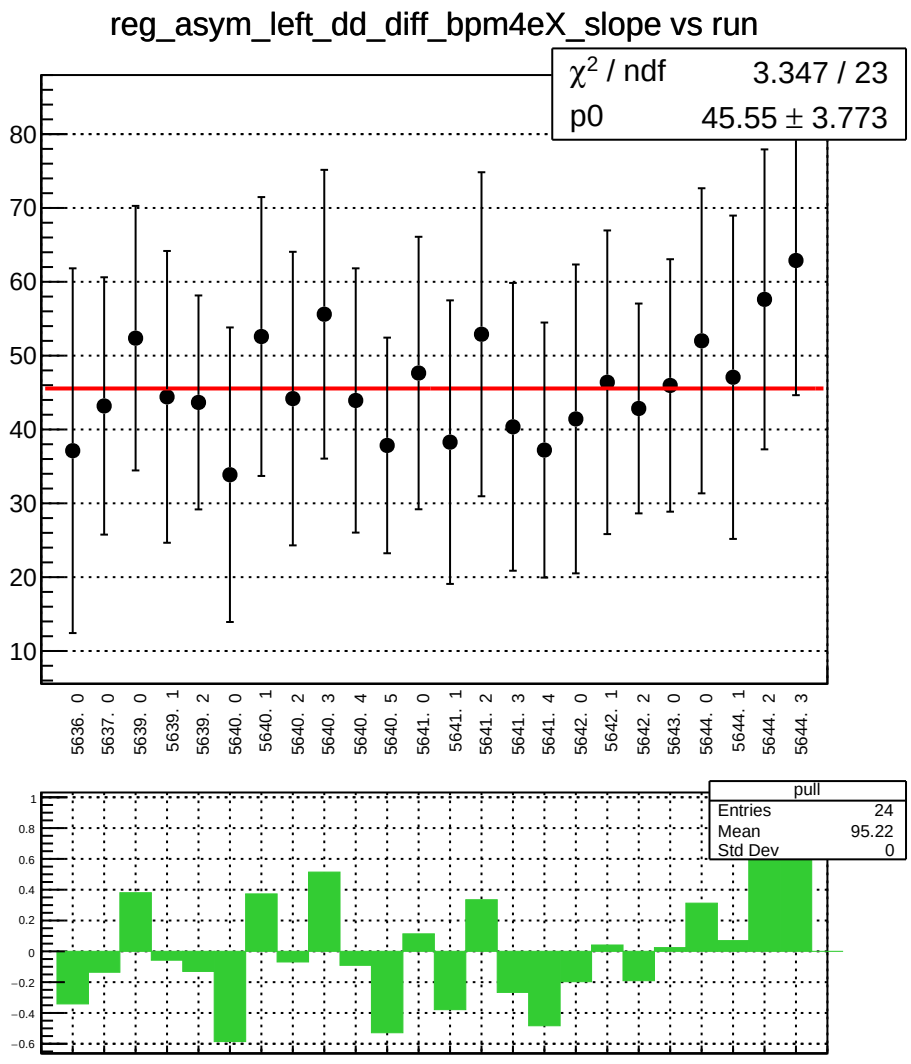

pull1D
Entries 24
Mean −0.06741
Std Dev 1.448
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

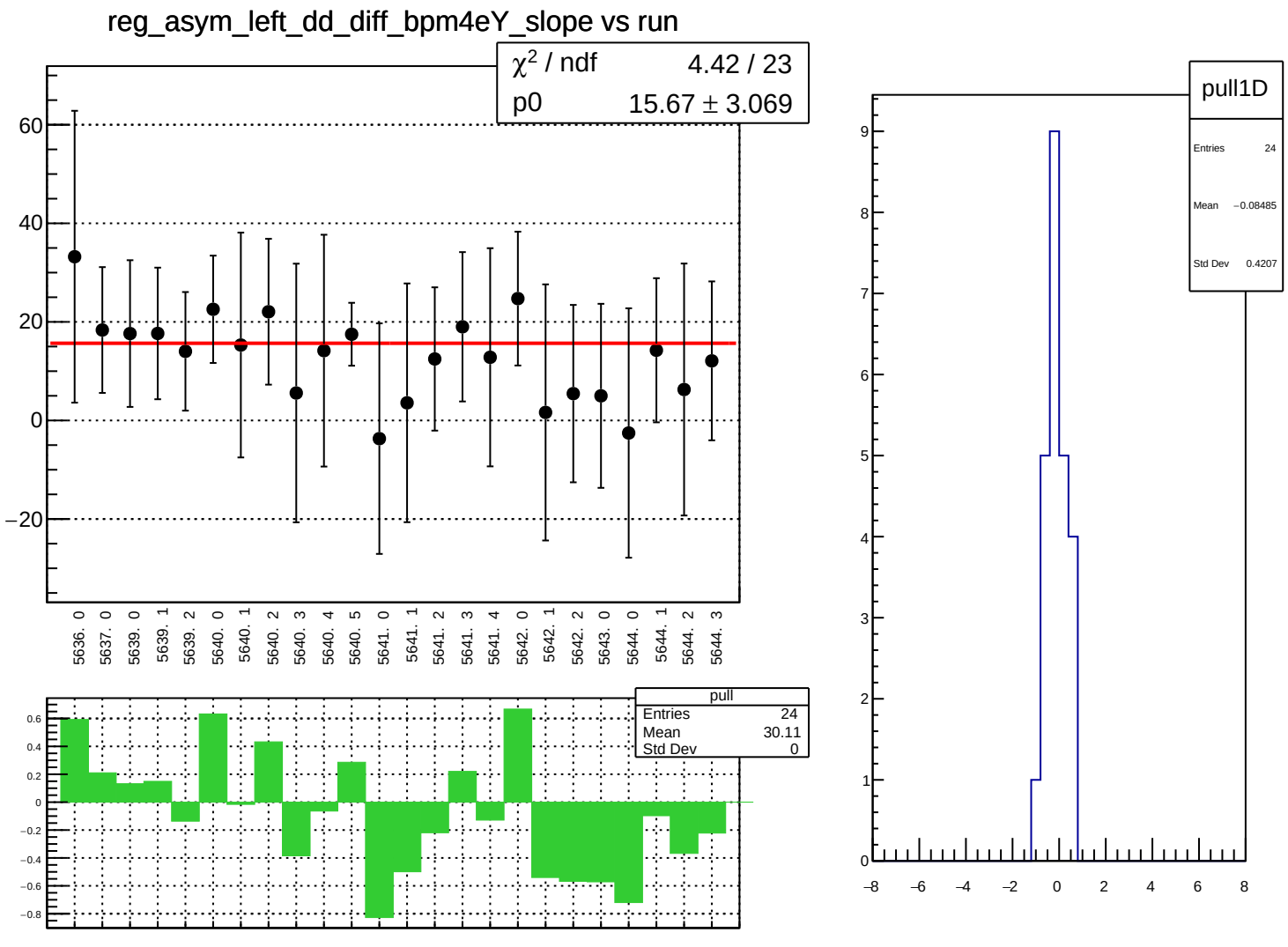

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 3.307 / 23
p0 −69.63 ± 4.348
−30
−40
−50
−60
−70
−80
−90
−100
−110
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 101.6
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

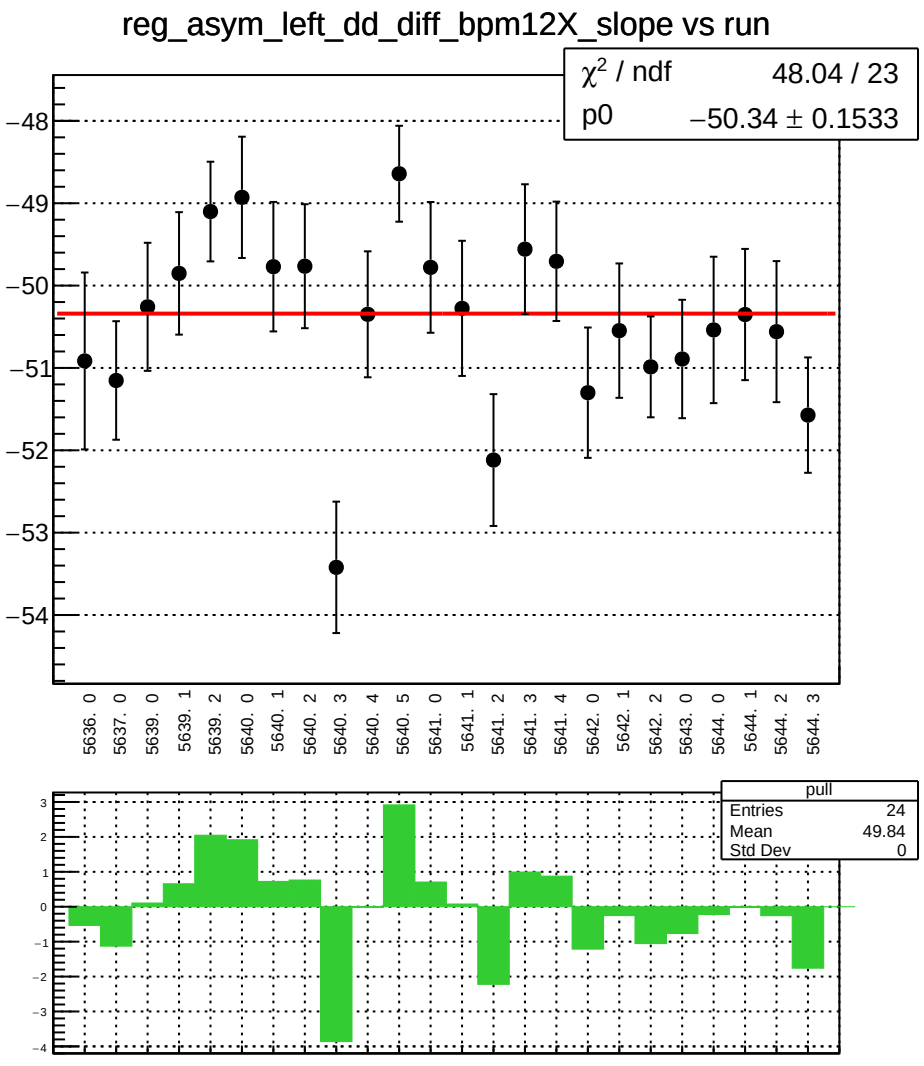

pull1D
Entries 24
Mean −0.009976
Std Dev 0.3711
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

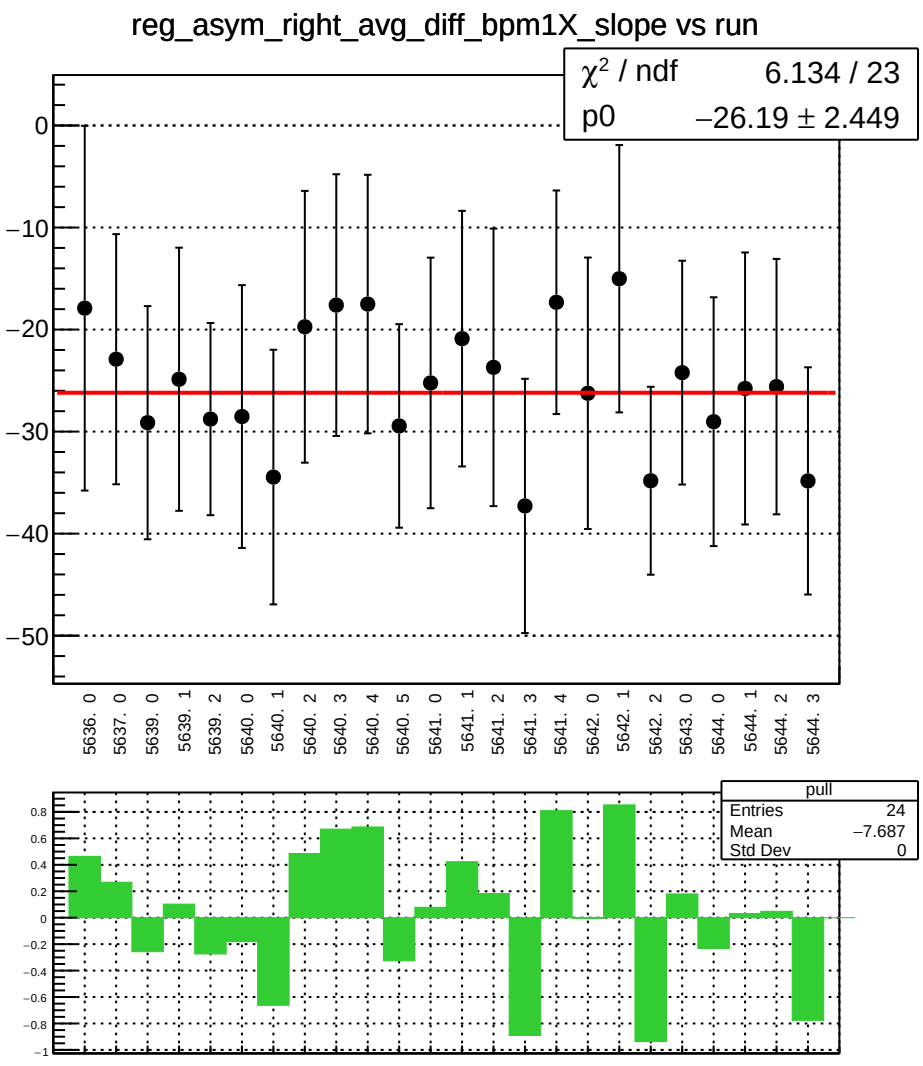

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.467 / 23
p0 5.906 ± 2.413
40
30
20
10
0
−10
−20
−30
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 27.09
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

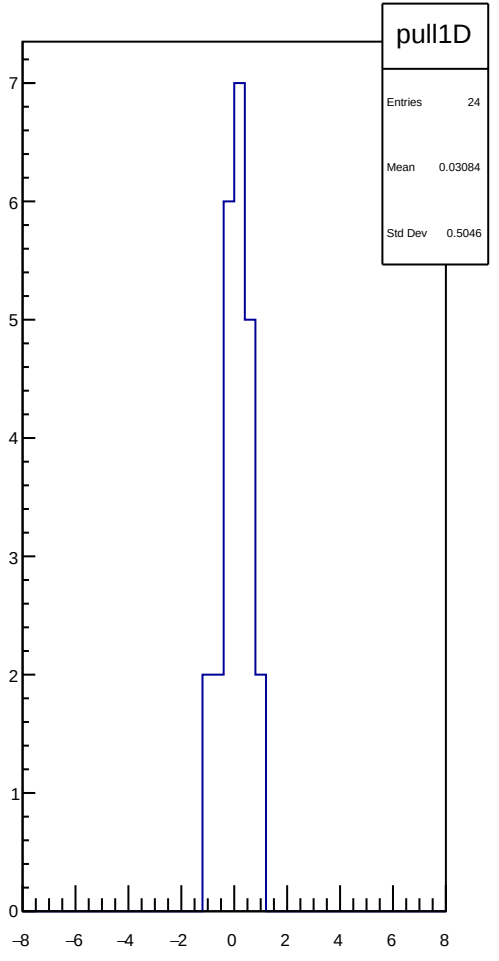

pull1D
Entries 24
Mean 0.1084
Std Dev 0.4176
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

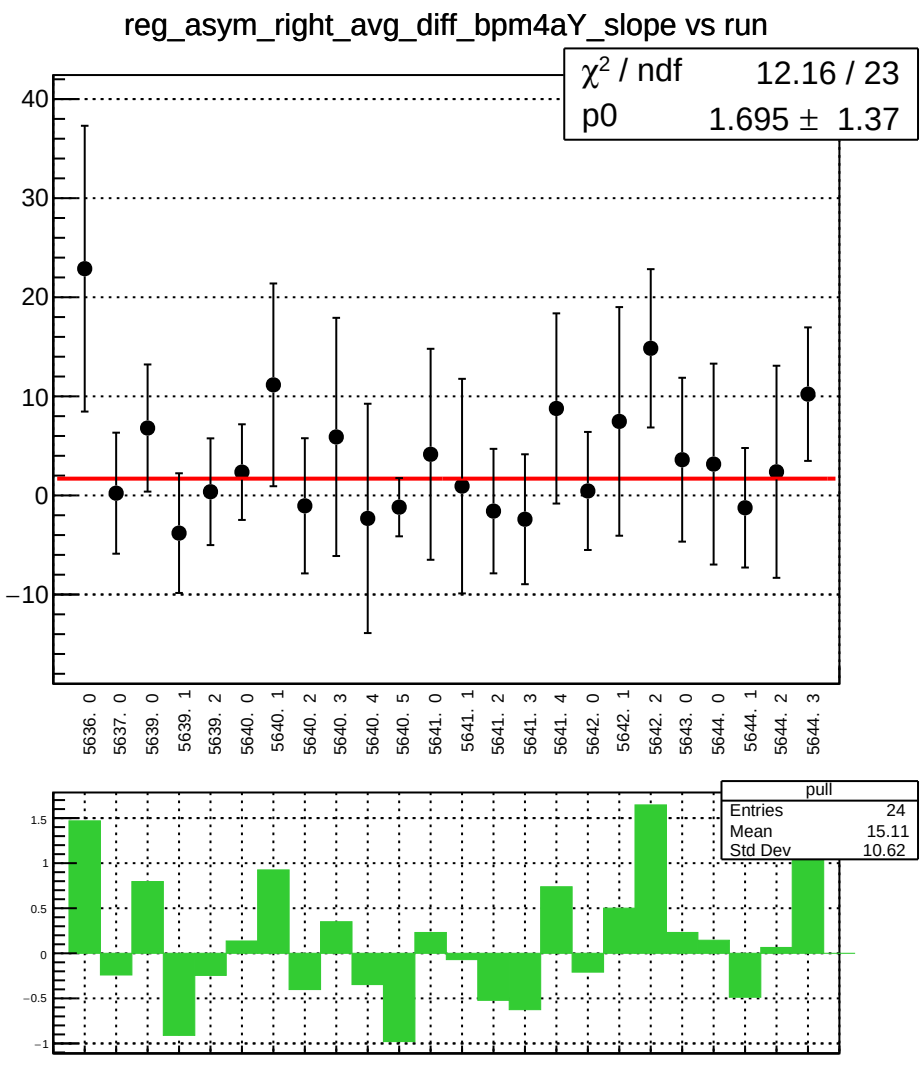

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.347 / 23
p0 45.55 ± 3.773
80
70
60
50
40
30
20
10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 95.22
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 24
Mean 0.01059
Std Dev 0.3733
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

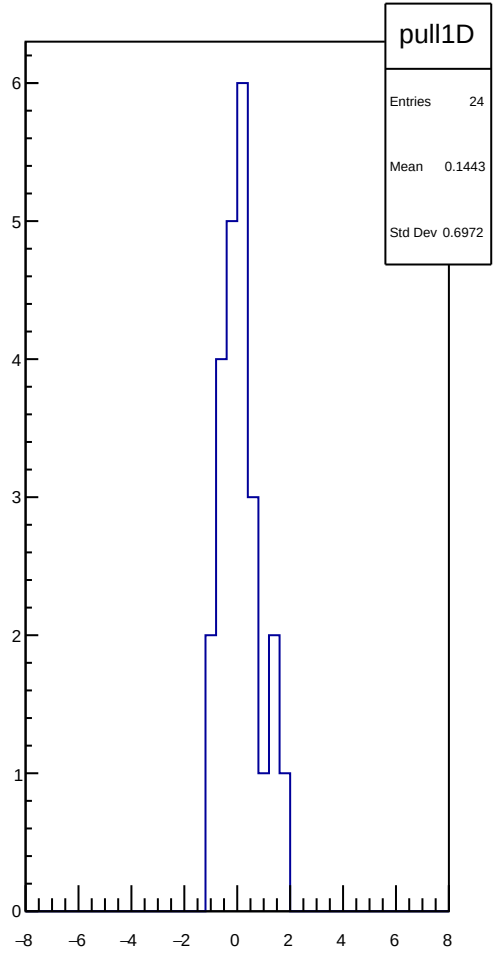

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.42 / 23
p0 15.67 ± 3.069
60
40
20
0
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 30.11
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean −0.08485
Std Dev 0.4207
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

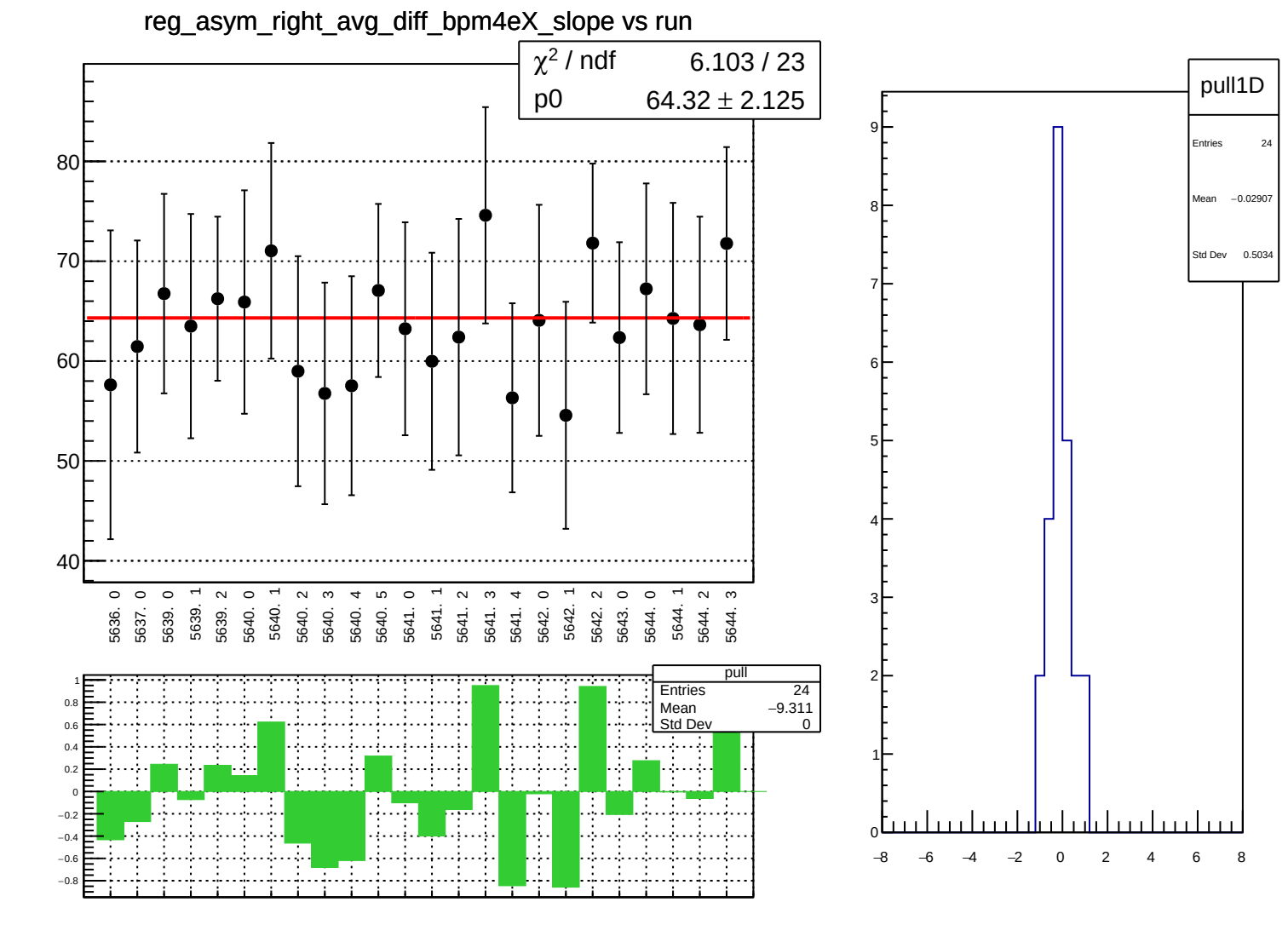

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 48.04 / 23
p0 −50.34 ± 0.1533
−48
−49
−50
−51
−52
−53
−54
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 49.84
Std Dev 0
pull1D
Entries 24
Mean −0.06296
Std Dev 1.413

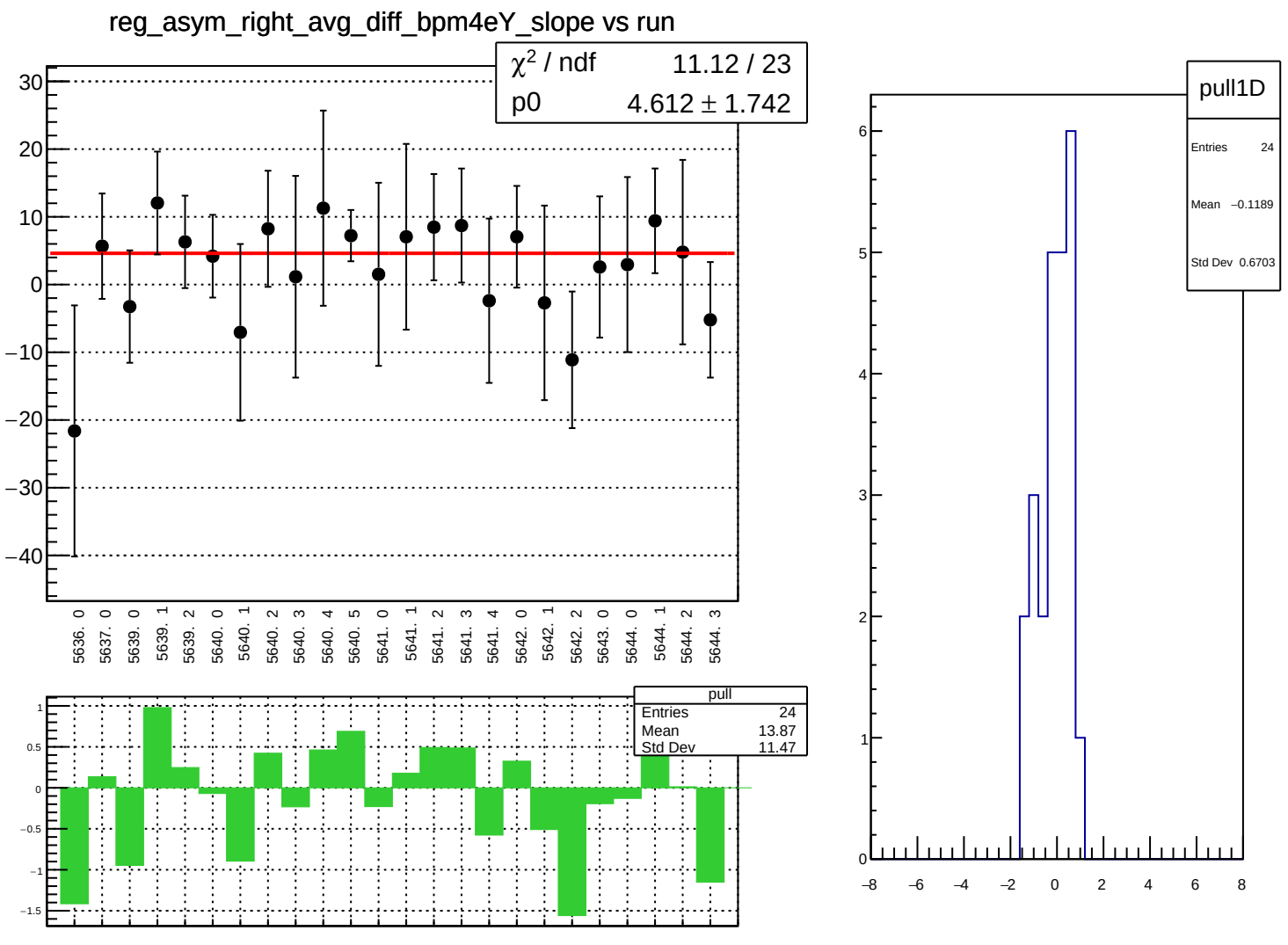

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 6.134 / 23
p0 −26.19 ± 2.449
0
−10
−20
−30
−40
−50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −7.687
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

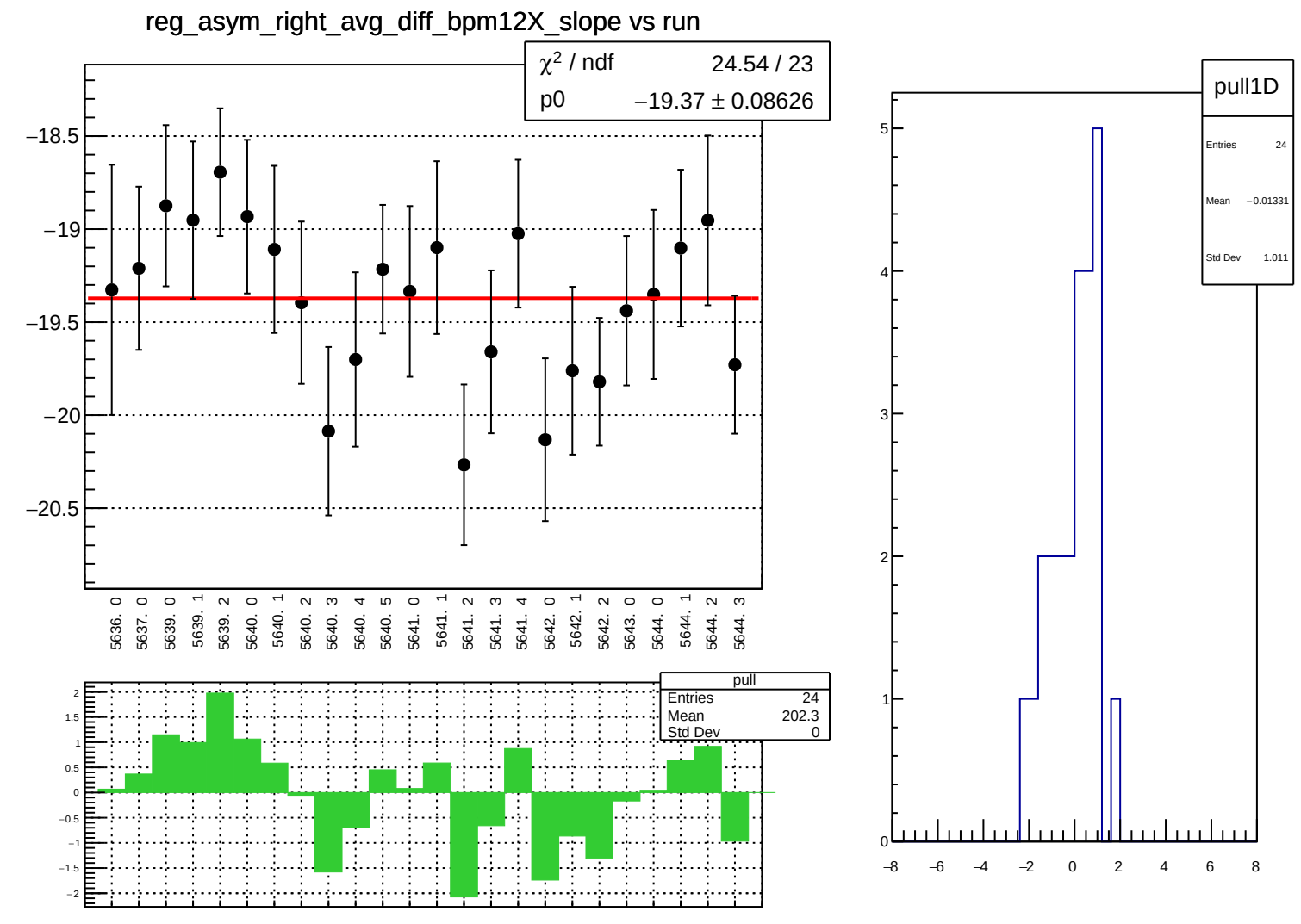

pull1D
Entries 24
Mean 0.03084
Std Dev 0.5046
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

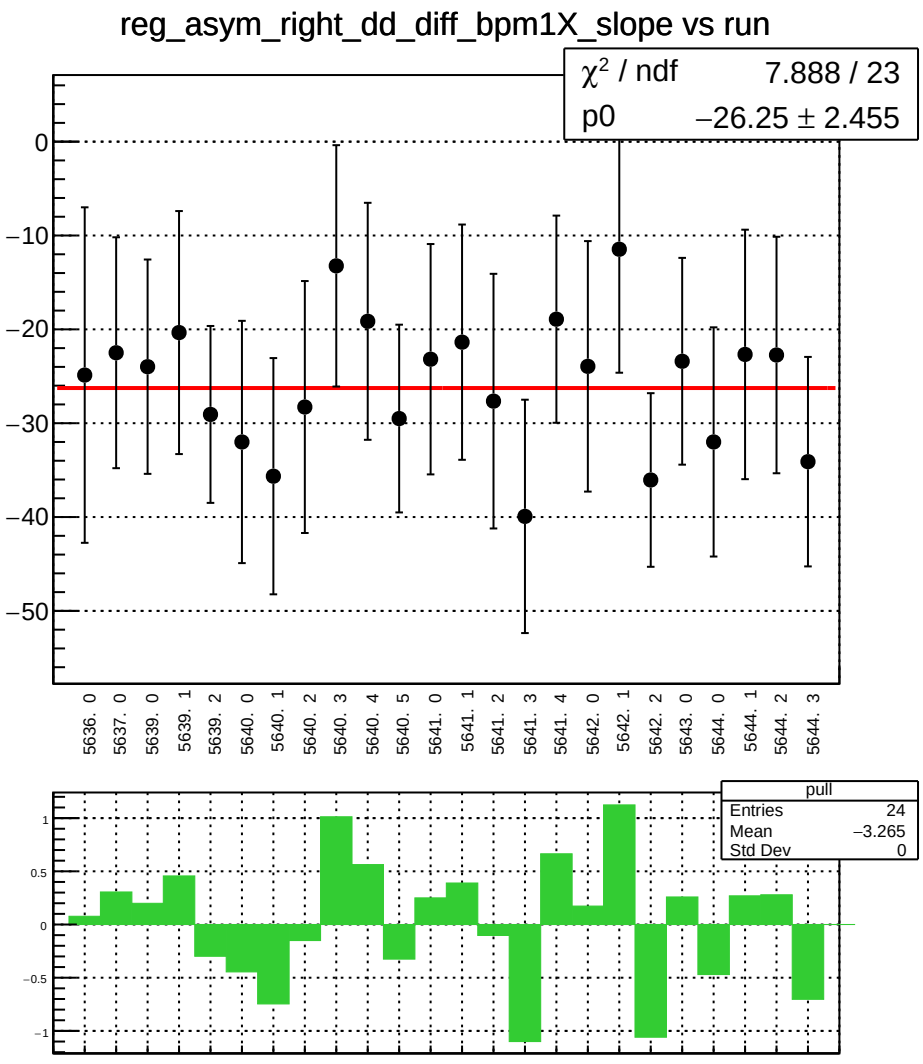

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.16 / 23
p0 1.695 ± 1.37
40
30
20
10
0
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 15.11
Std Dev 10.62
1.5
1
0.5
0
−0.5
−1

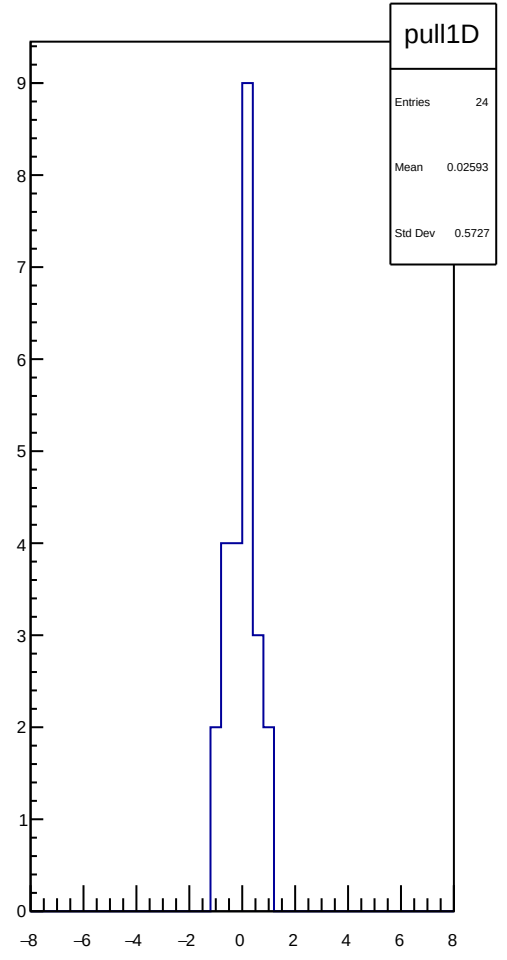

pull1D
Entries 24
Mean 0.1443
Std Dev 0.6972
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

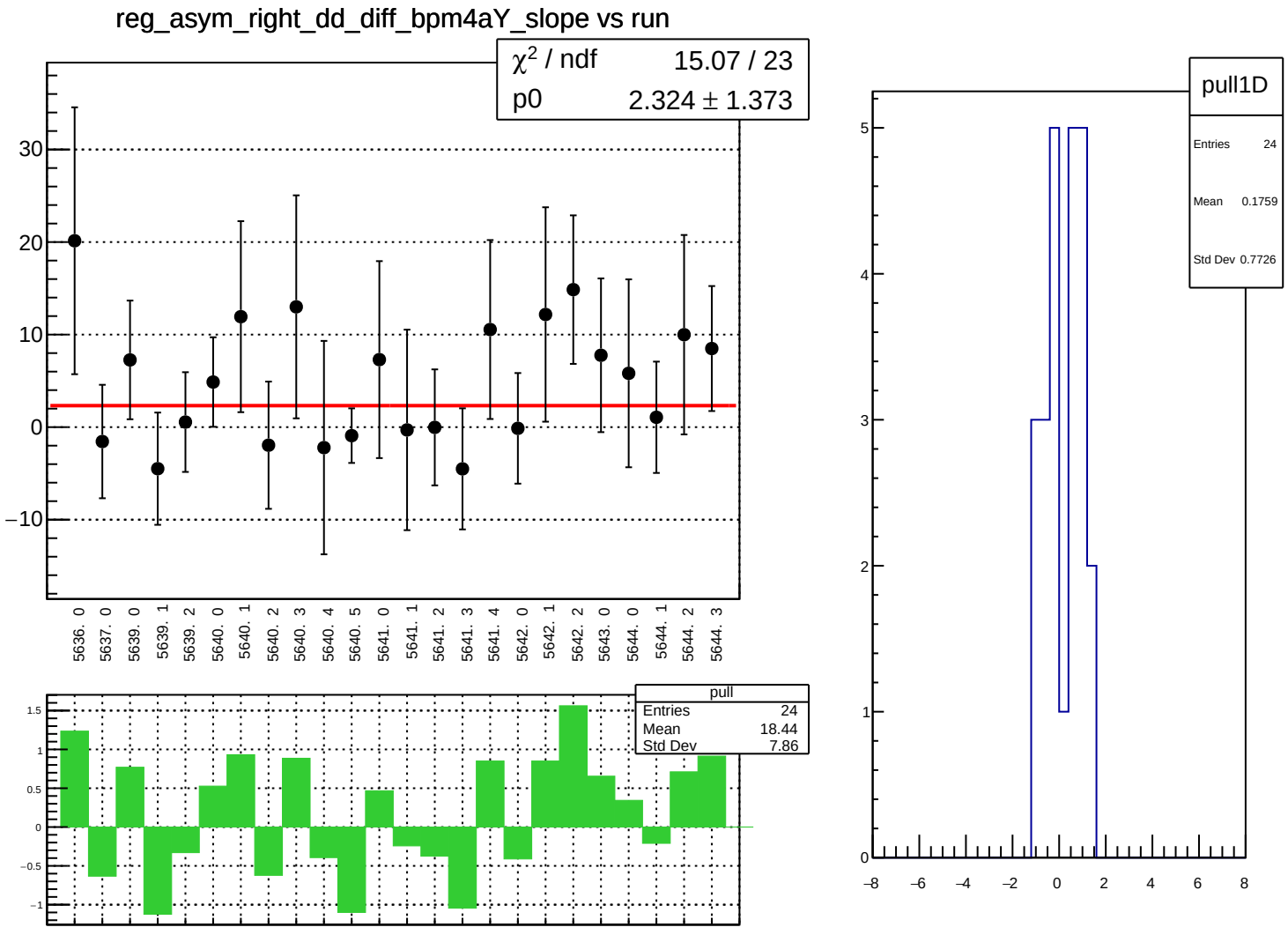

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.103 / 23
p0 64.32 ± 2.125
80
70
60
50
40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −9.311
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean −0.02907
Std Dev 0.5034
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

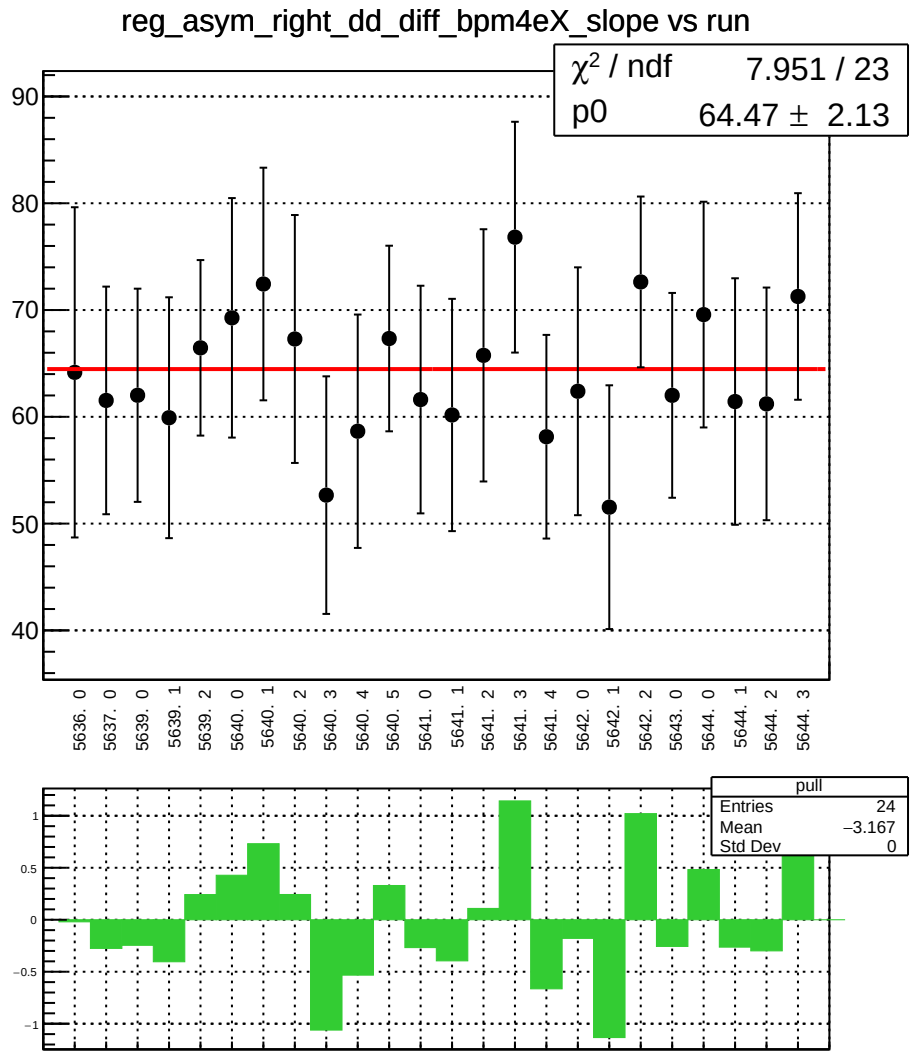

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.12 / 23
p0 4.612 ± 1.742
30
20
10
0
−10
−20
−30
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 13.87
Std Dev 11.47
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.1189
Std Dev 0.6703
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

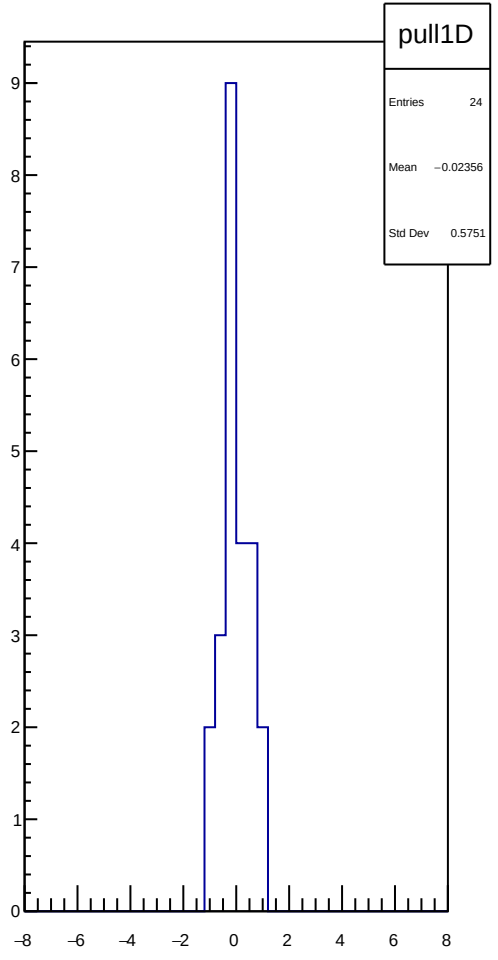

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 24.54 / 23
p0 −19.37 ± 0.08626
−18.5
−19
−19.5
−20
−20.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 202.3
Std Dev 0
pull1D
Entries 24
Mean −0.01331
Std Dev 1.011

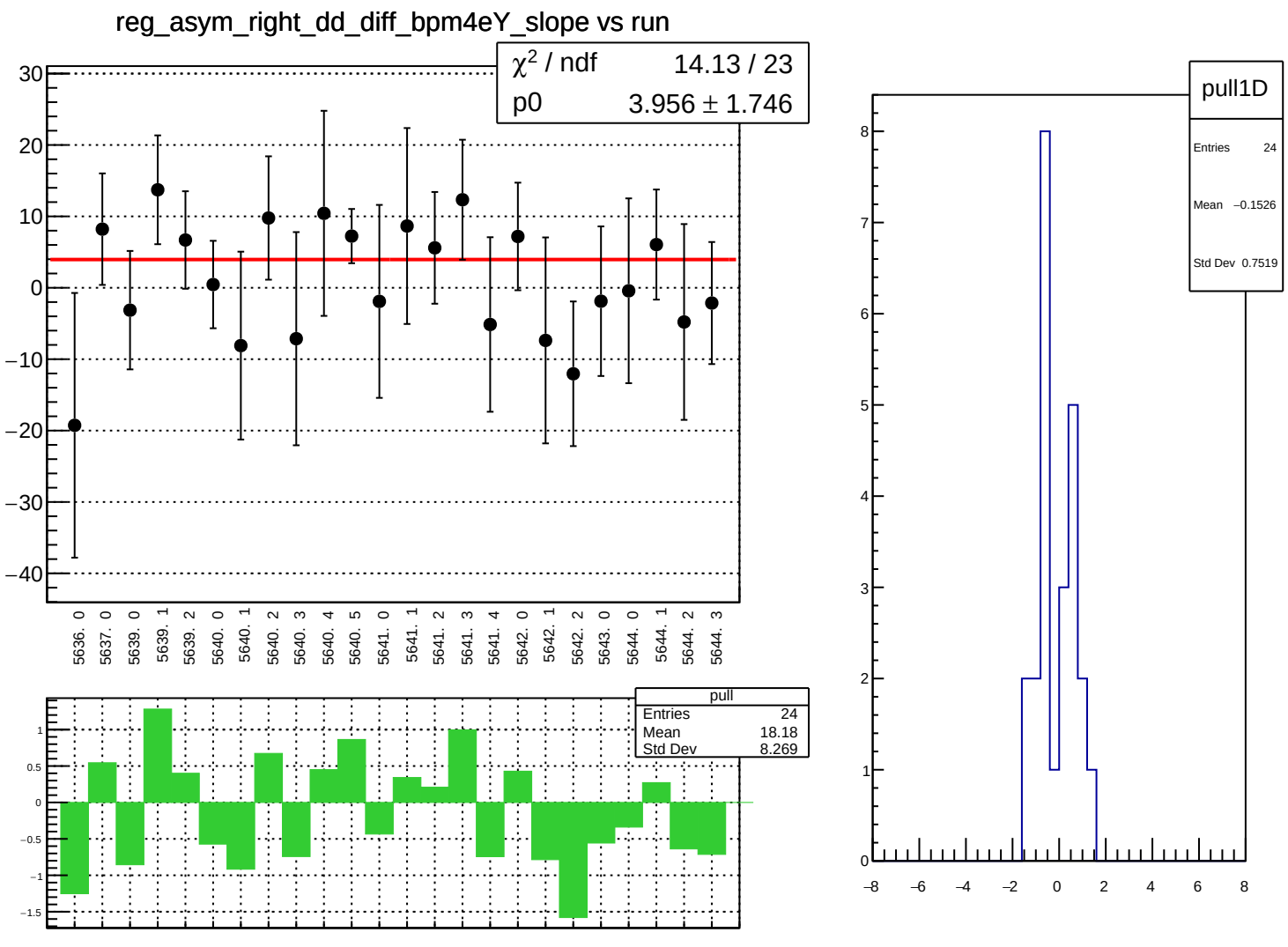

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 7.888 / 23
p0 −26.25 ± 2.455
0
−10
−20
−30
−40
−50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −3.265
Std Dev 0
1
0.5
0
−0.5
−1

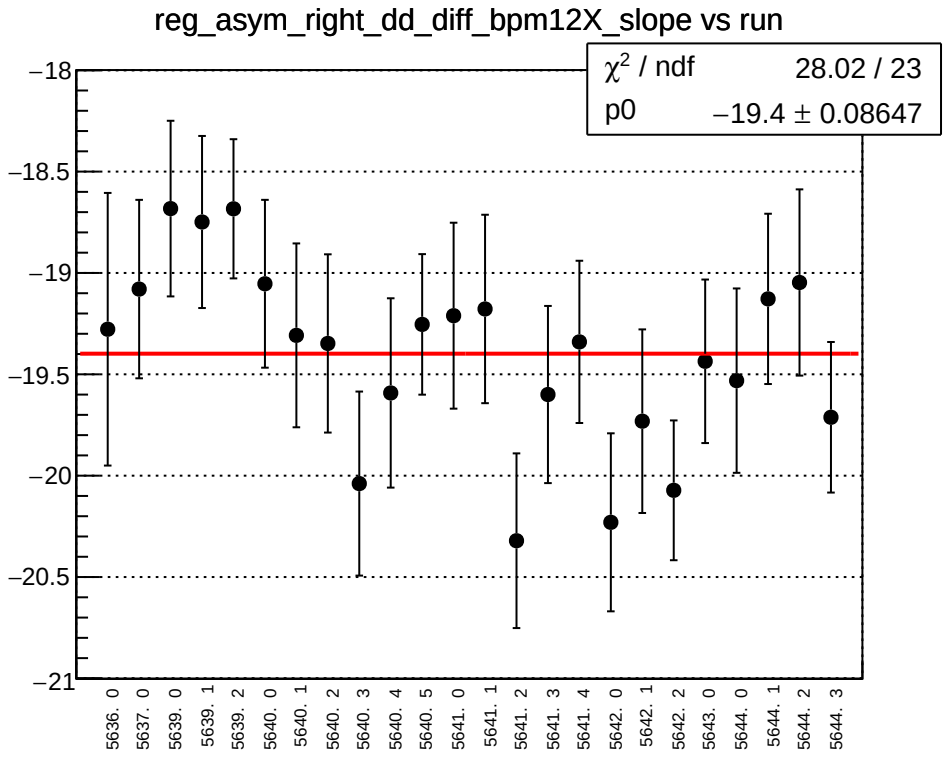

pull1D
Entries 24
Mean 0.02593
Std Dev 0.5727
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

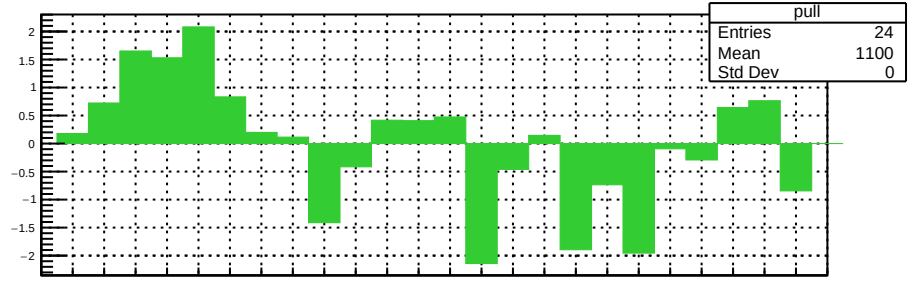

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.07 / 23
p0 2.324 ± 1.373
30
20
10
0
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 18.44
Std Dev 7.86
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.1759
Std Dev 0.7726
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

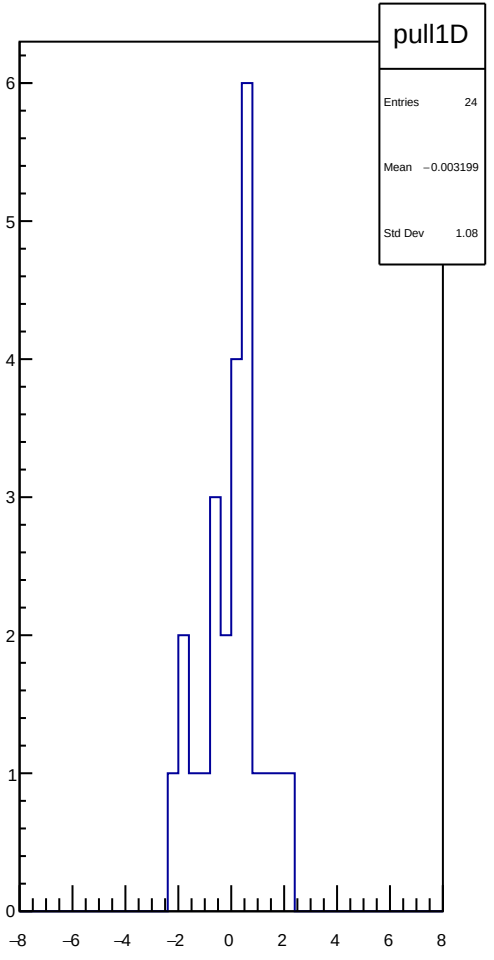

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.951 / 23
p0 64.47 ± 2.13
90
80
70
60
50
40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −3.167
Std Dev 0
1
0.5
0
−0.5
−1

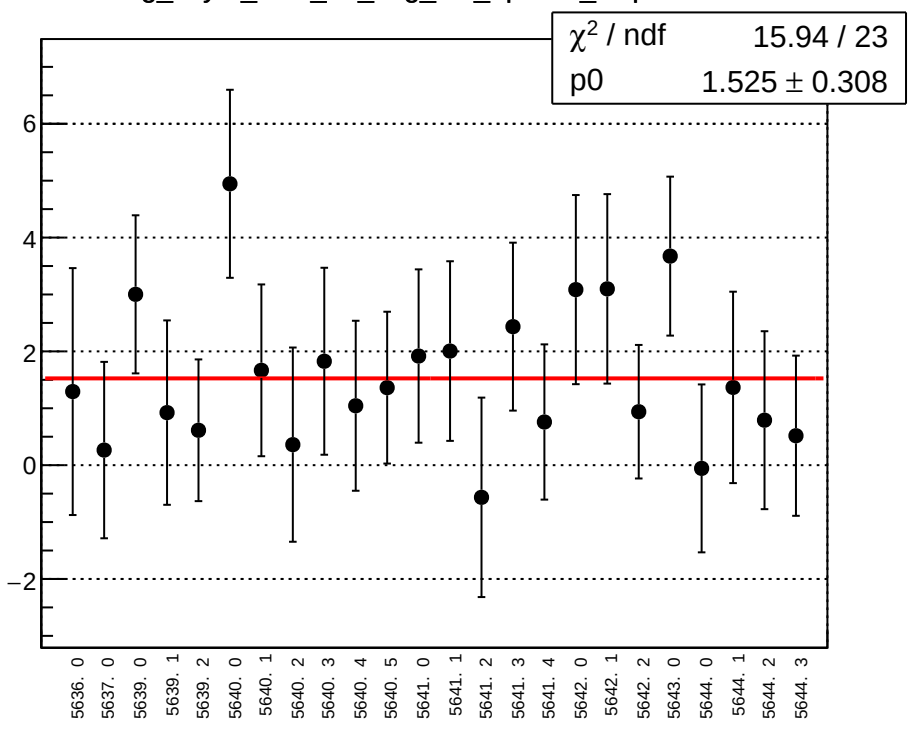

pull1D
Entries 24
Mean −0.02356
Std Dev 0.5751
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

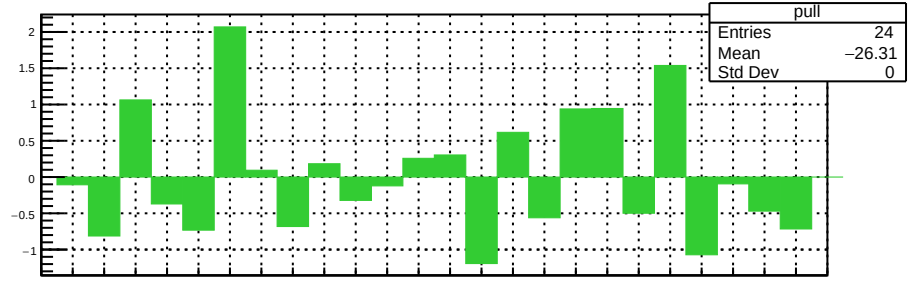

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.13 / 23
p0 3.956 ± 1.746
30
20
10
0
−10
−20
−30
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 18.18
Std Dev 8.269
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.1526
Std Dev 0.7519
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

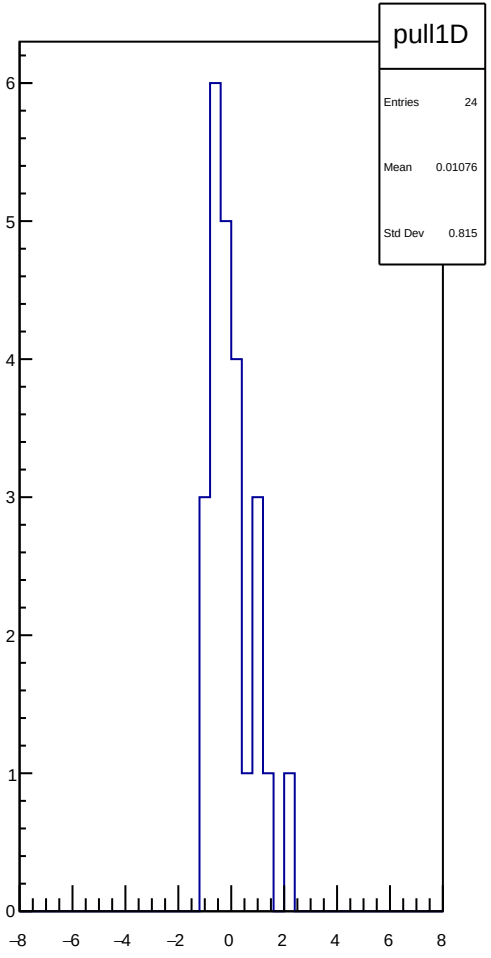

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 28.02 / 23
p0 −19.4 ± 0.08647
−18
−18.5
−19
−19.5
−20
−20.5
−21
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

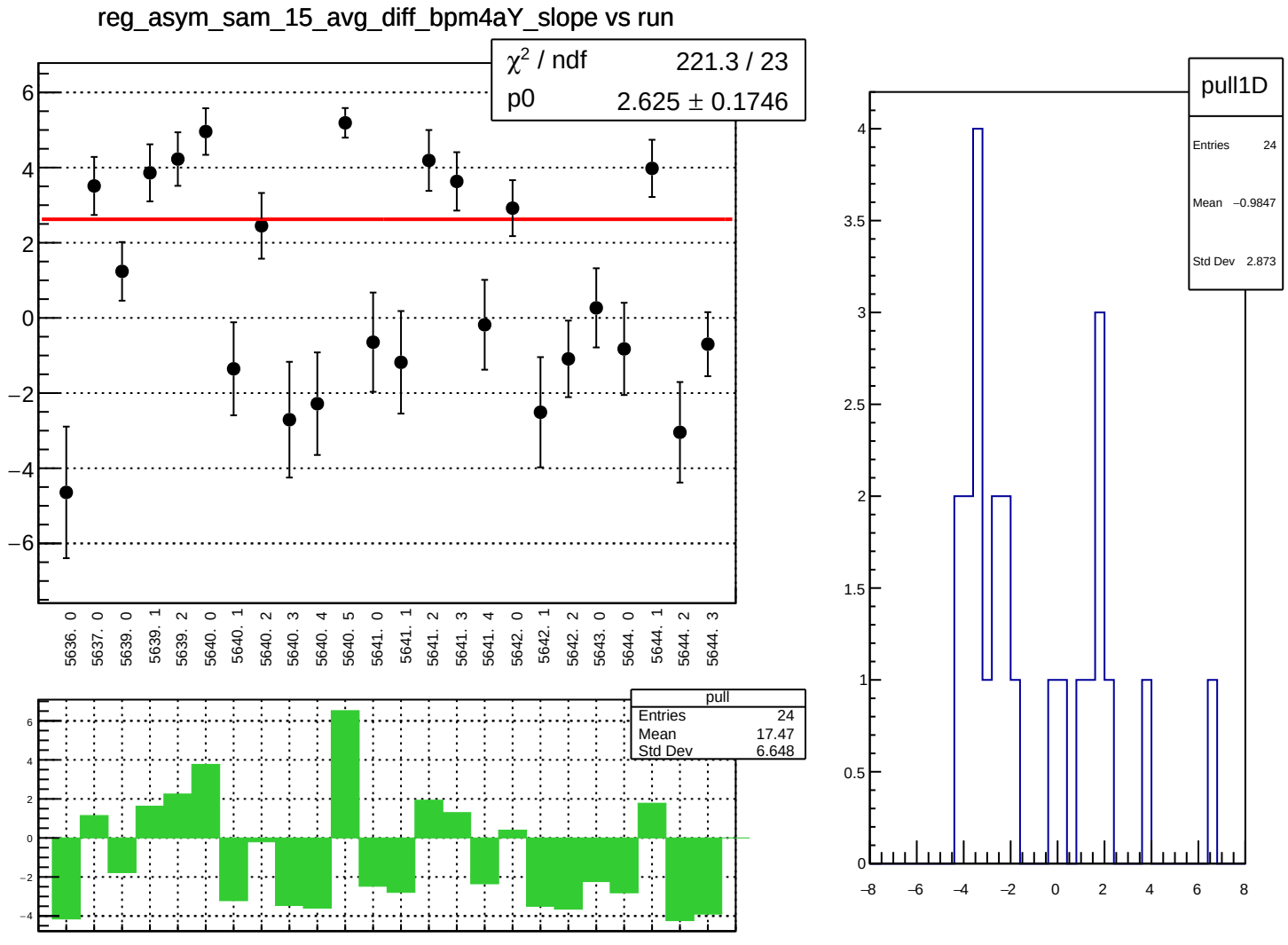

pull
Entries 24
Mean 1100
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

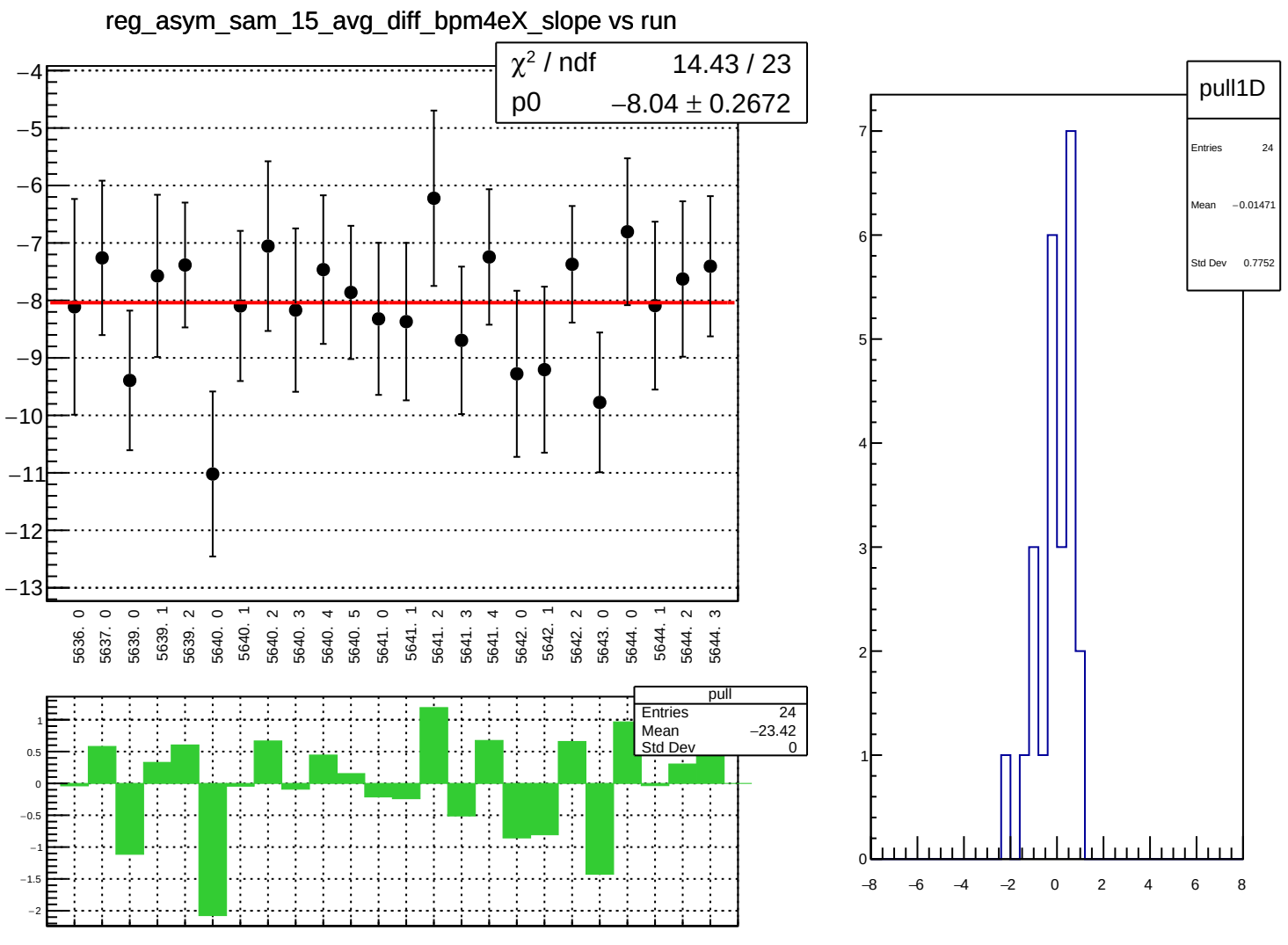

pull1D
Entries 24
Mean −0.003199
Std Dev 1.08
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

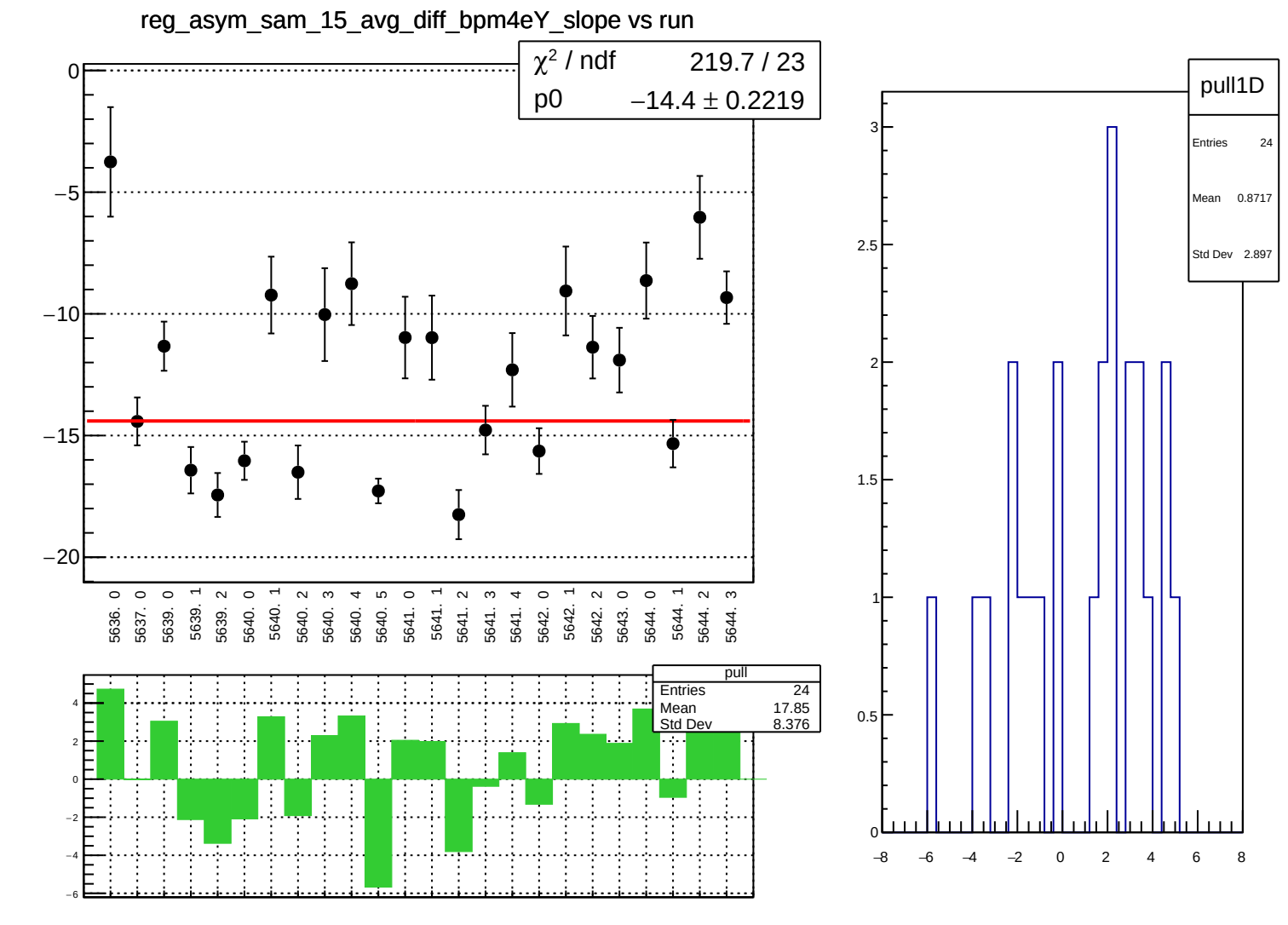

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 15.94 / 23
p0 1.525 ± 0.308
6
4
2
0
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

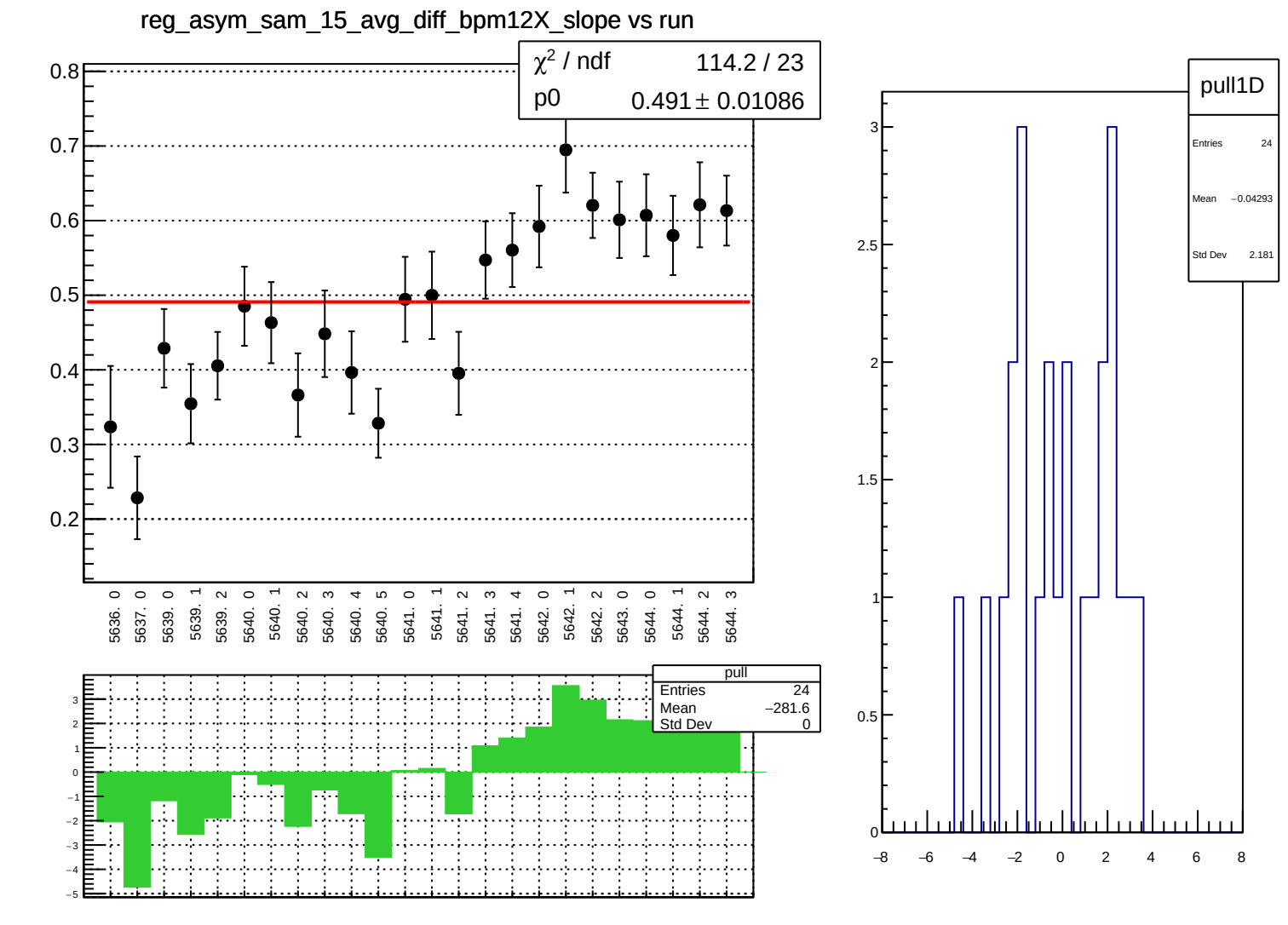

pull
Entries 24
Mean −26.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

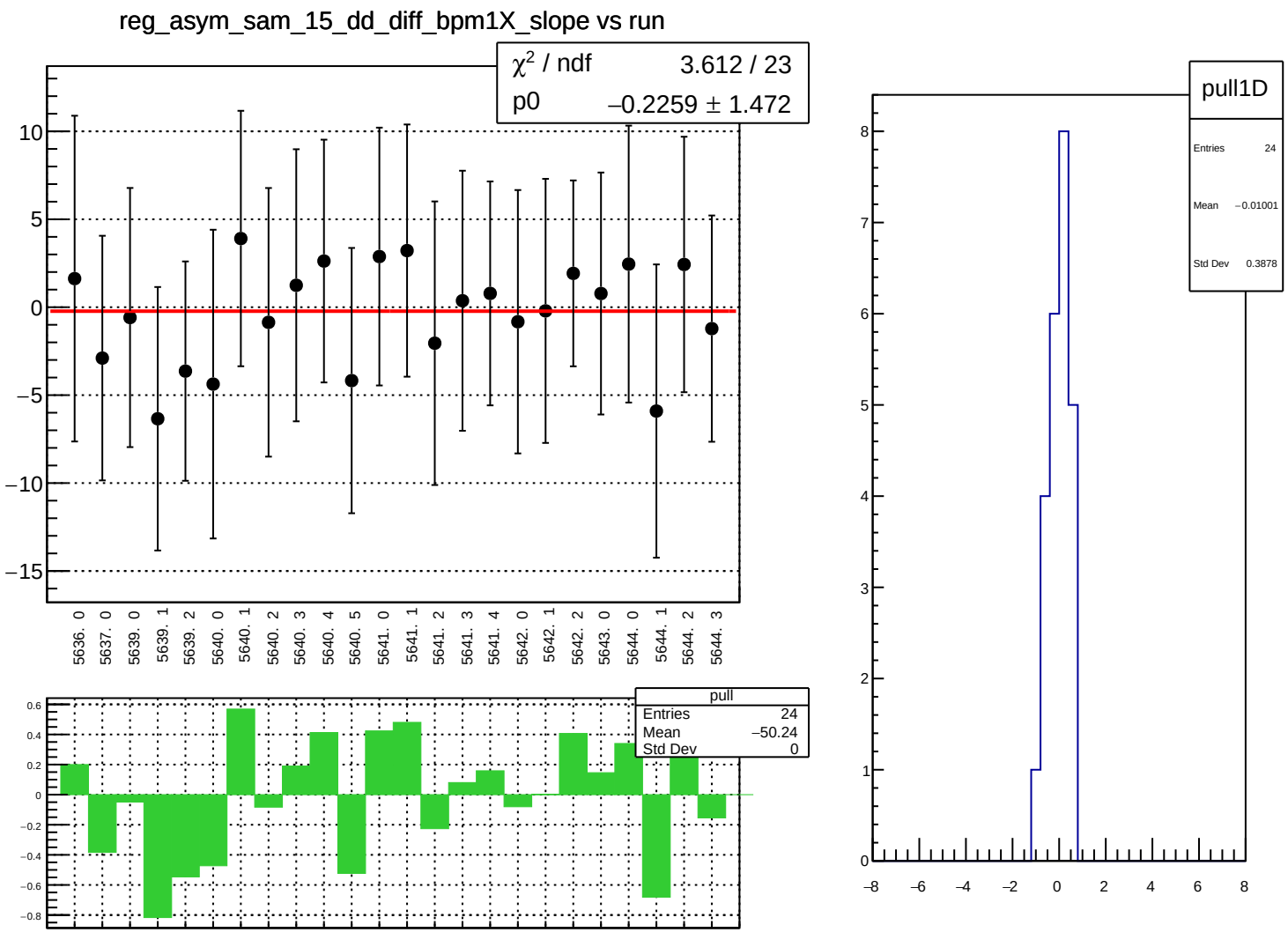

pull1D
Entries 24
Mean 0.01076
Std Dev 0.815
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

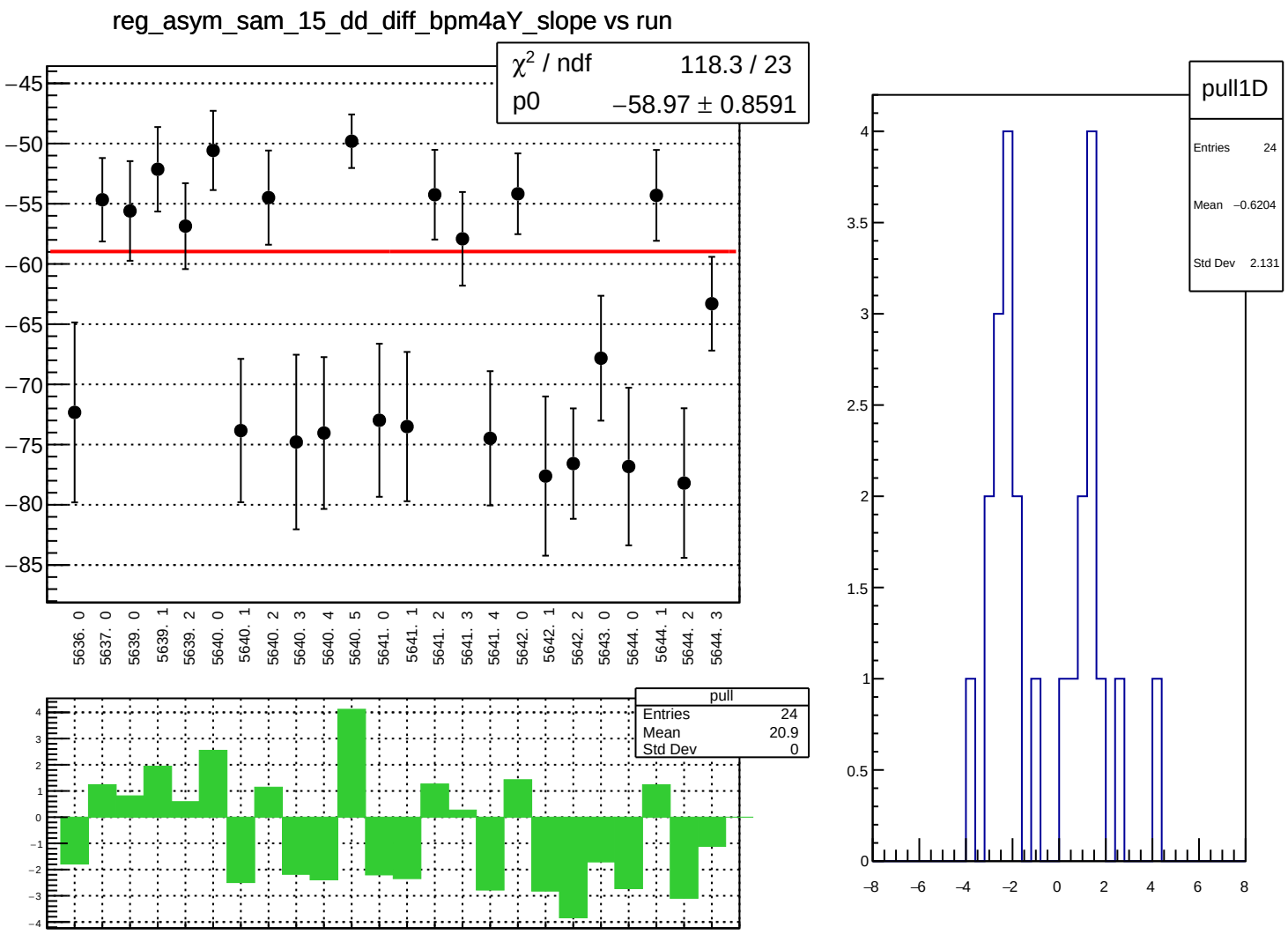

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 221.3 / 23
p0 2.625 ± 0.1746
6
4
2
0
−2
−4
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 17.47
Std Dev 6.648
pull1D
Entries 24
Mean −0.9847
Std Dev 2.873
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

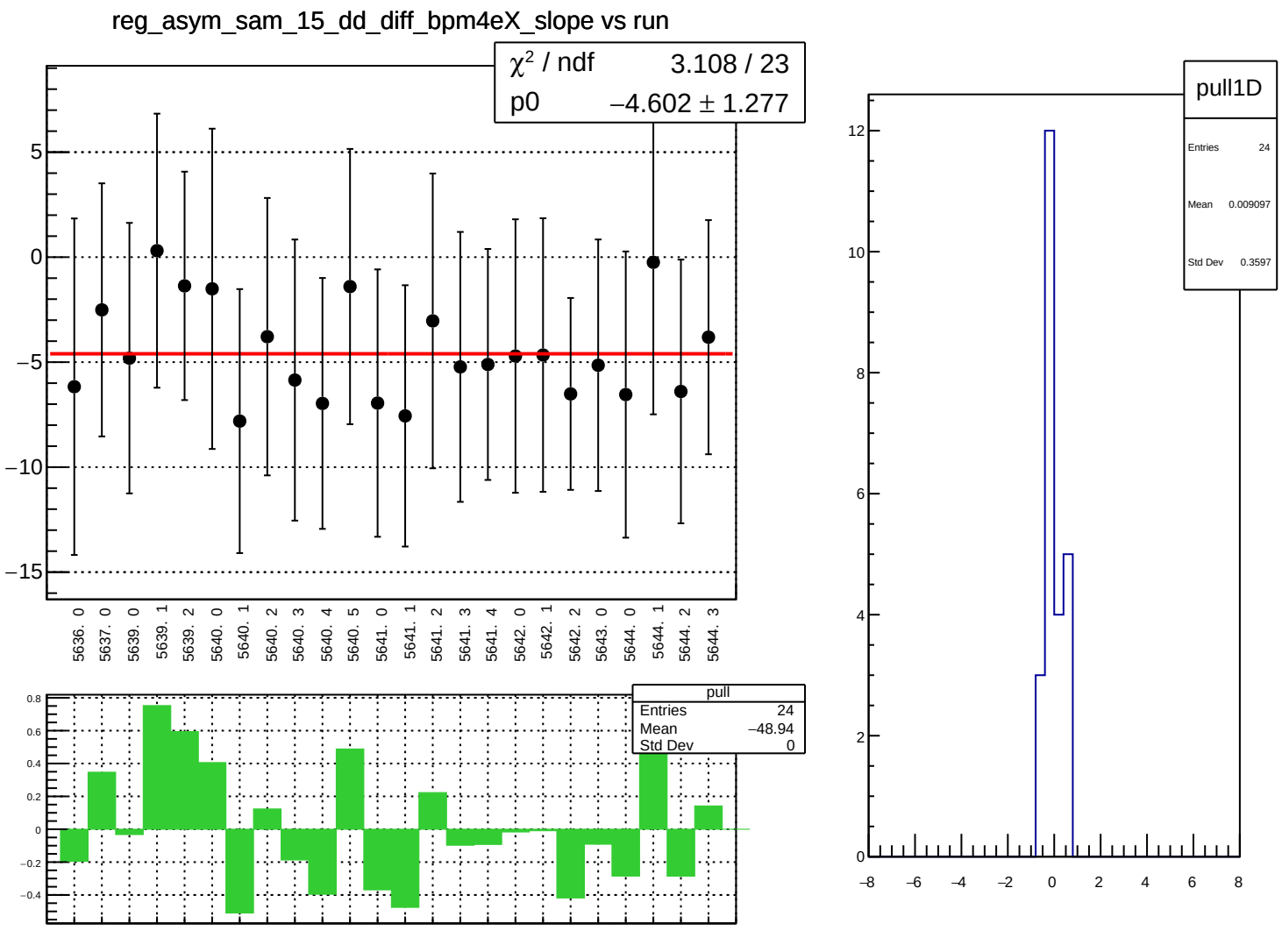

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.43 / 23
p0 −8.04 ± 0.2672
−4
−5
−6
−7
−8
−9
−10
−11
−12
−13
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −23.42
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.01471
Std Dev 0.7752
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

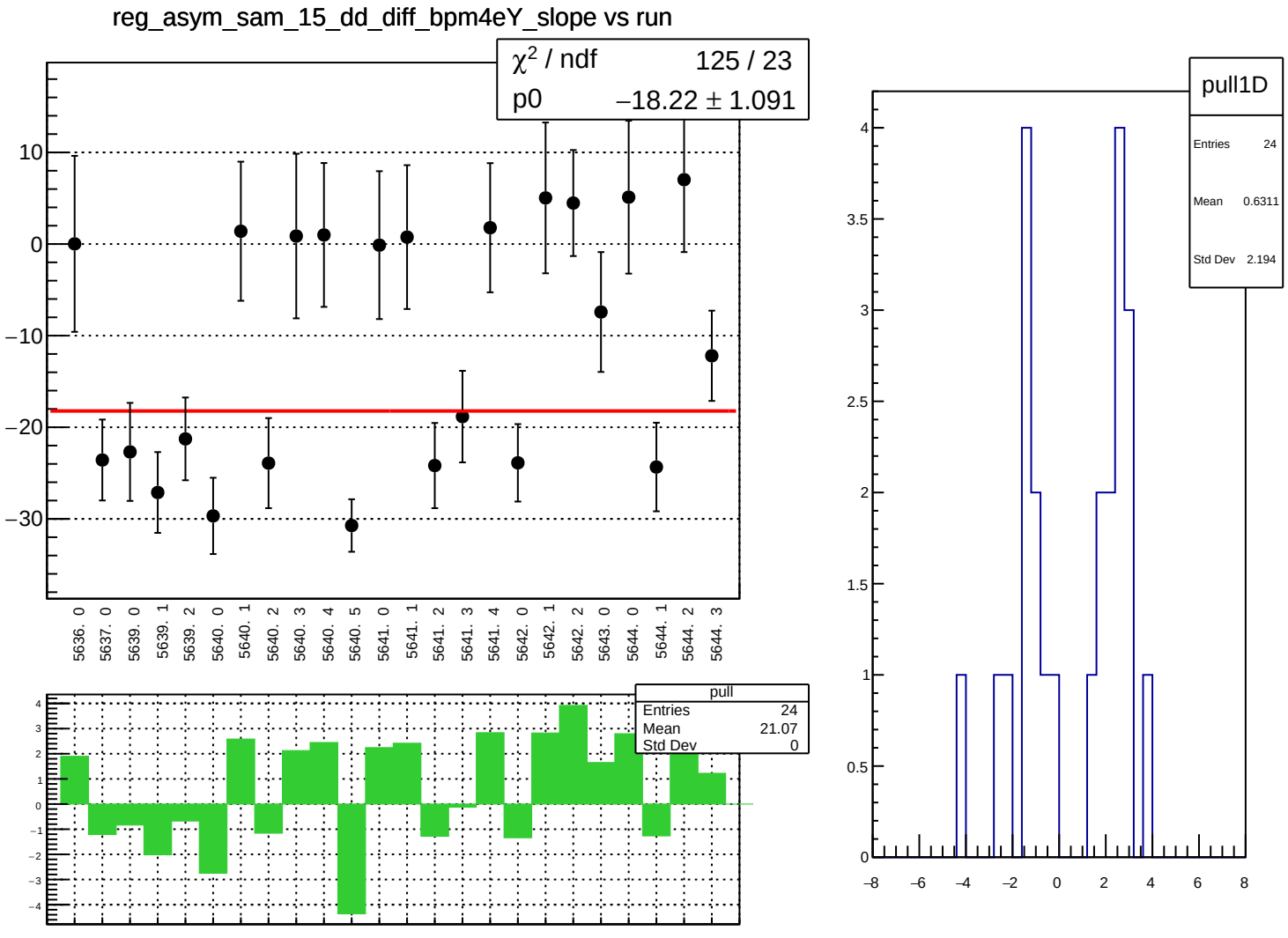

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 219.7 / 23
p0 −14.4 ± 0.2219
0
−5
−10
−15
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 17.85
Std Dev 8.376
4
2
0
−2
−4
−6
pull1D
Entries 24
Mean 0.8717
Std Dev 2.897
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

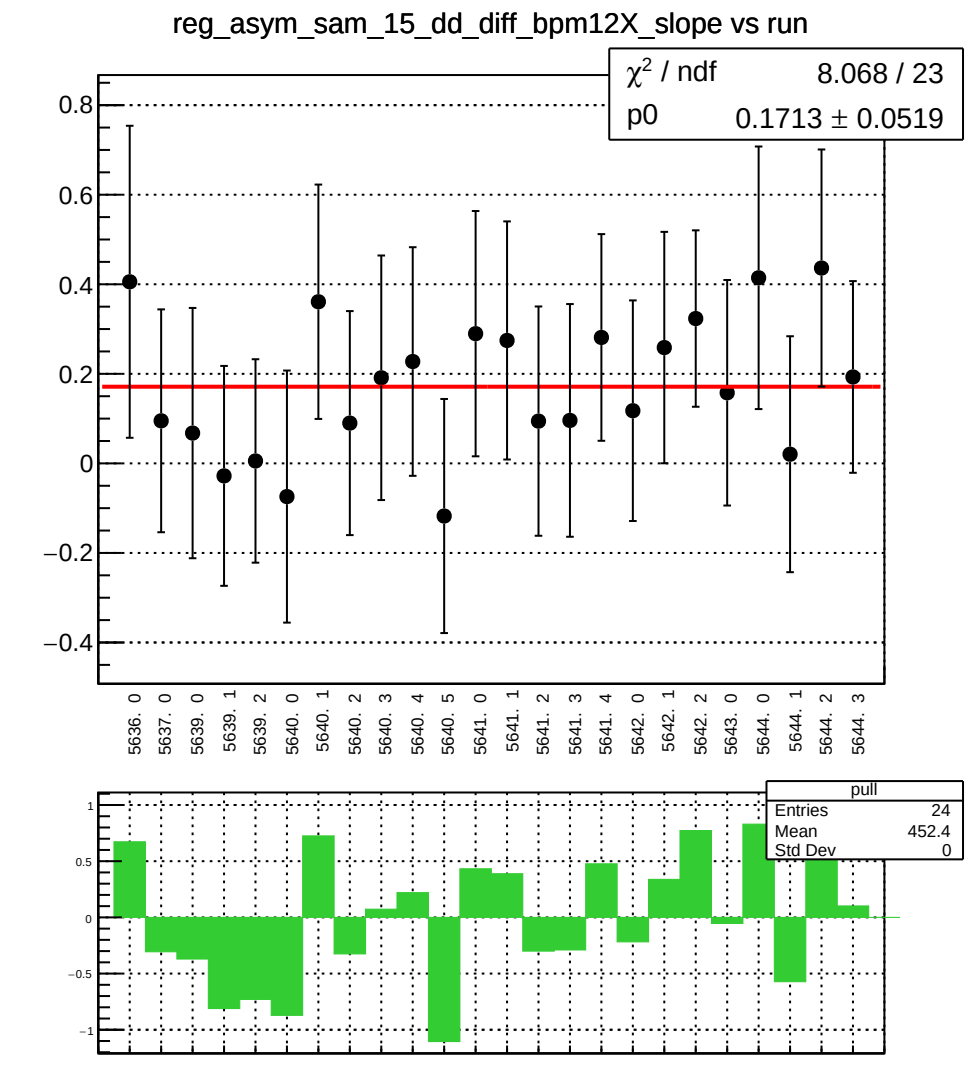

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 114.2 / 23
p0 0.491 ± 0.01086
0.8
0.7
0.6
0.5
0.4
0.3
0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −281.6
Std Dev 0
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 24
Mean −0.04293
Std Dev 2.181
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

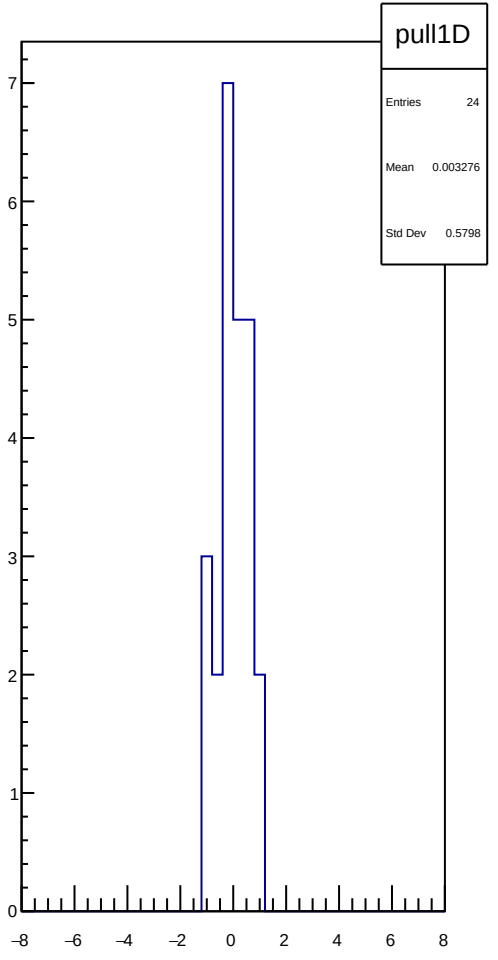

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 3.612 / 23
p0 −0.2259 ± 1.472
10
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −50.24
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean −0.01001
Std Dev 0.3878
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

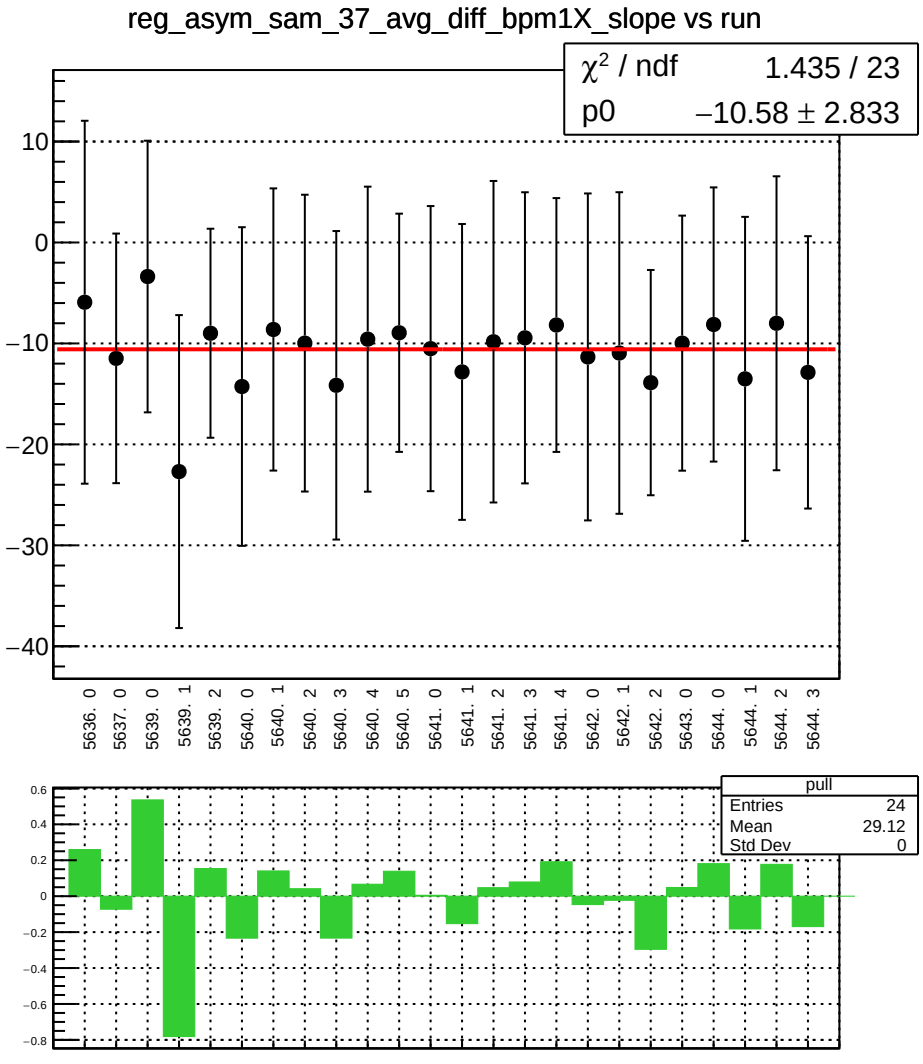

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 118.3 / 23
p0 −58.97 ± 0.8591
−45
−50
−55
−60
−65
−70
−75
−80
−85
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 20.9
Std Dev 0
pull1D
Entries 24
Mean −0.6204
Std Dev 2.131

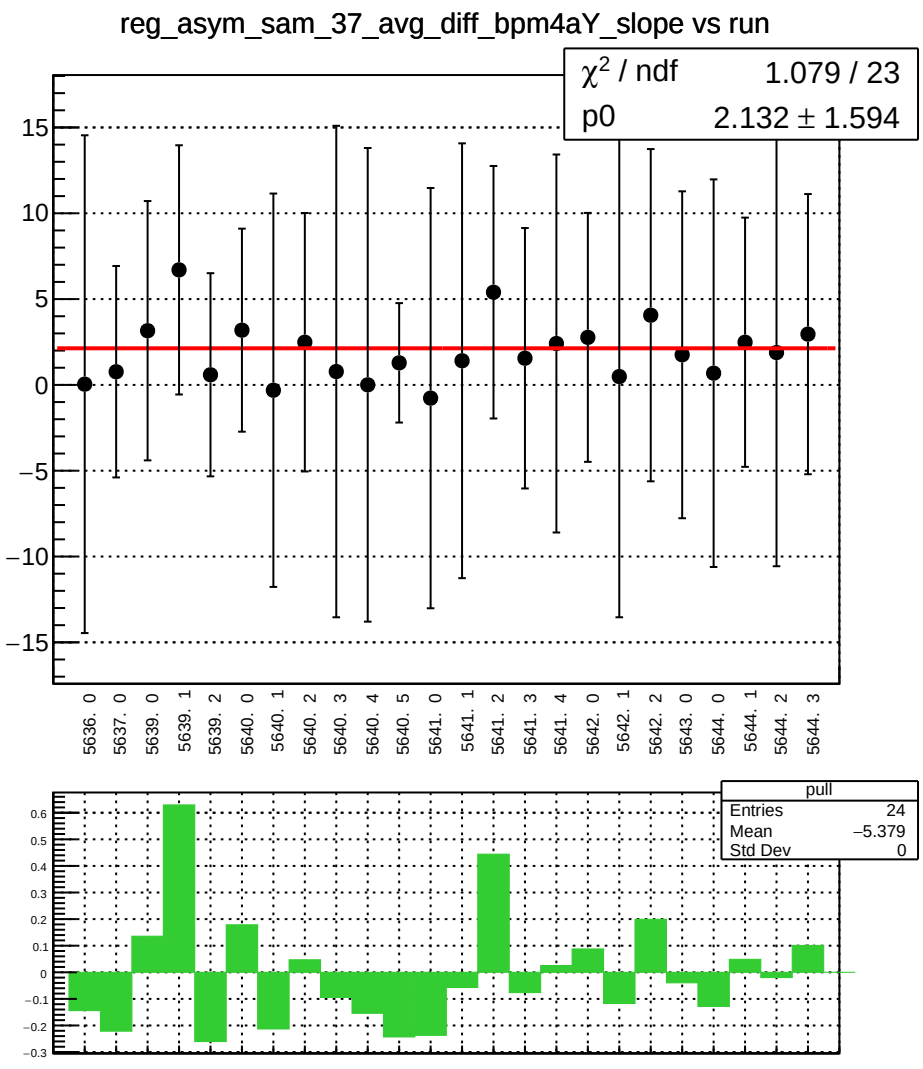

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.108 / 23
p0 −4.602 ± 1.277
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −48.94
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 24
Mean 0.009097
Std Dev 0.3597
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

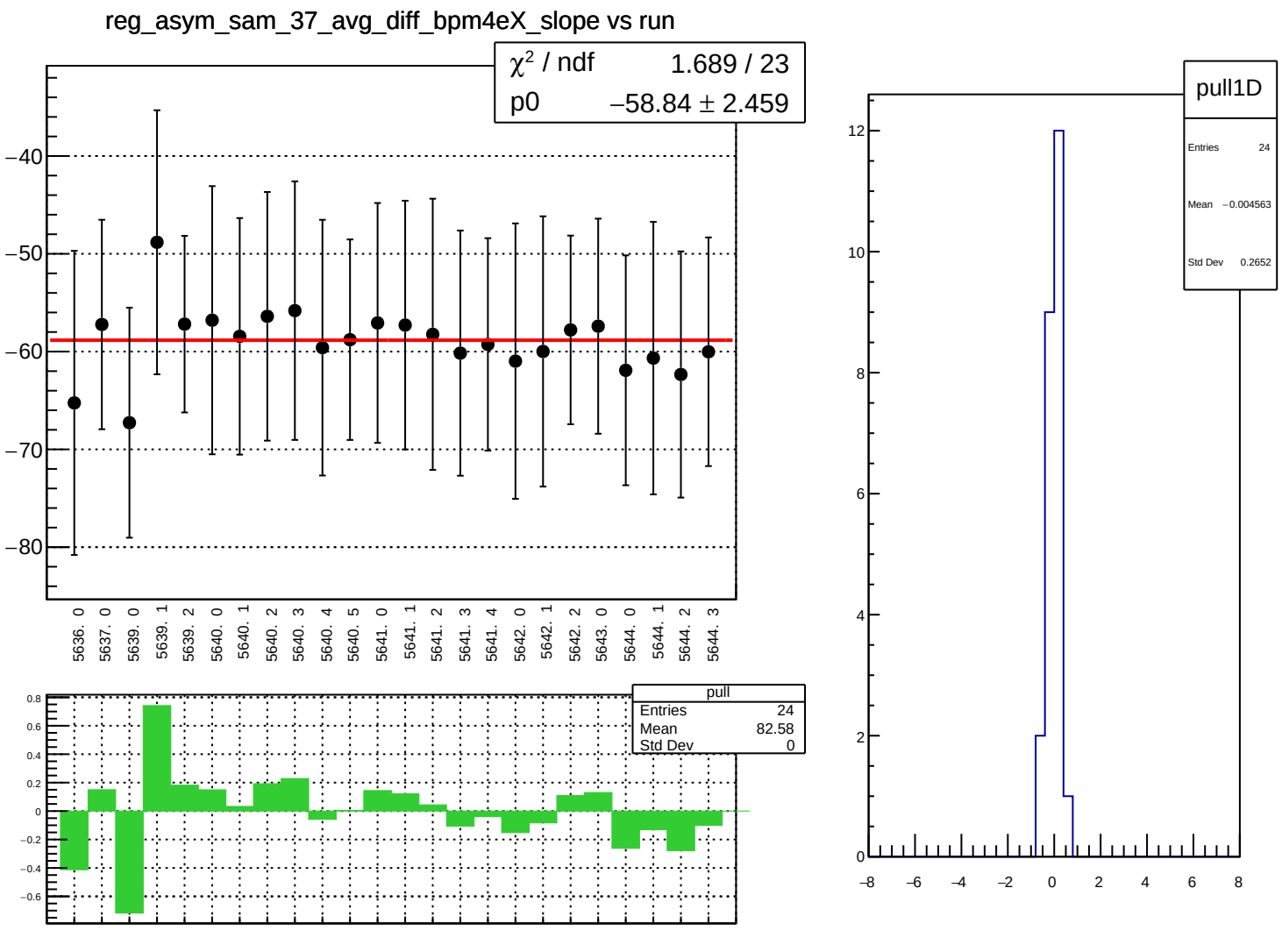

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 125 / 23
p0 −18.22 ± 1.091
10
0
−10
−20
−30
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 21.07
Std Dev 0
pull1D
Entries 24
Mean 0.6311
Std Dev 2.194

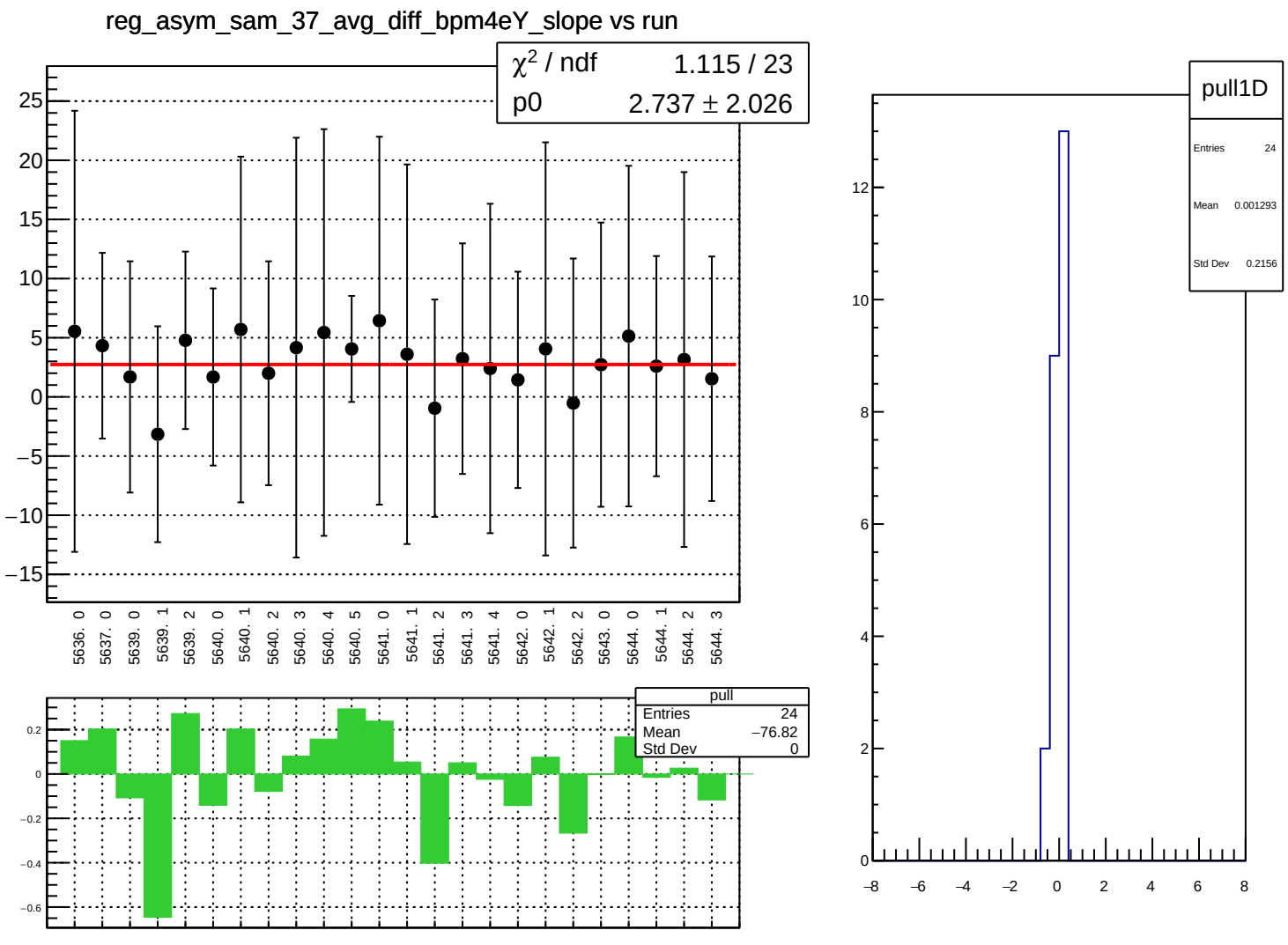

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 8.068 / 23
p0 0.1713 ± 0.0519
0.8
0.6
0.4
0.2
0
−0.2
−0.4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 452.4
Std Dev 0
1
0.5
0
−0.5
−1

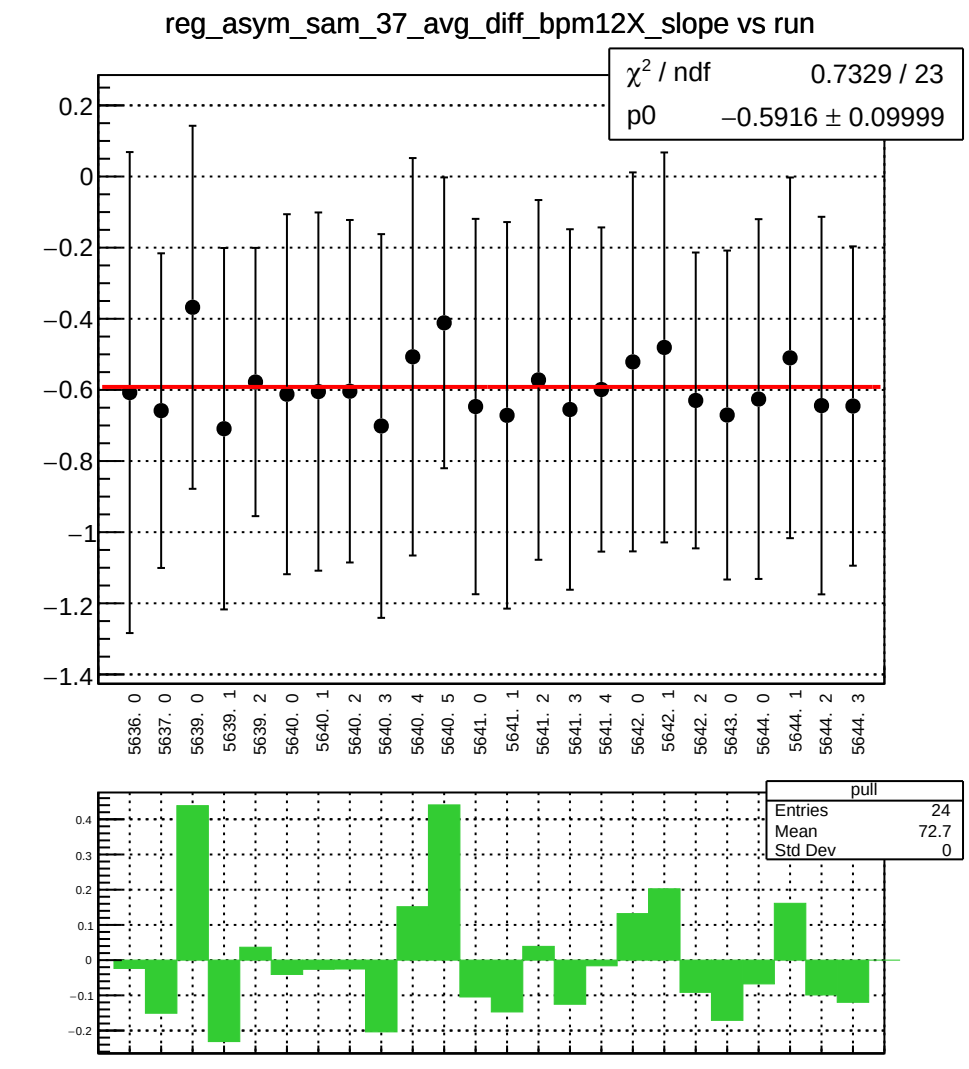

pull1D
Entries 24
Mean 0.003276
Std Dev 0.5798
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

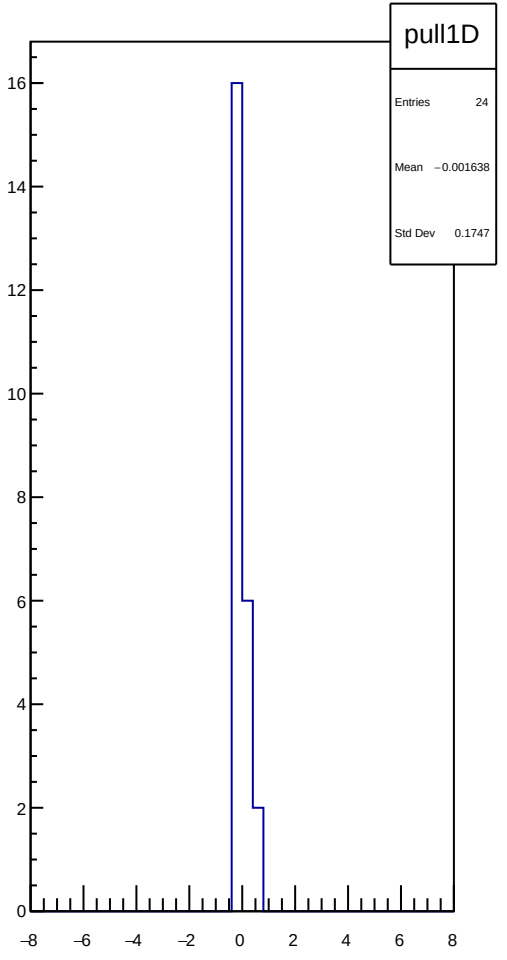

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 1.435 / 23
p0 −10.58 ± 2.833
10
0
−10
−20
−30
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 29.12
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean −0.005208
Std Dev 0.2445
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

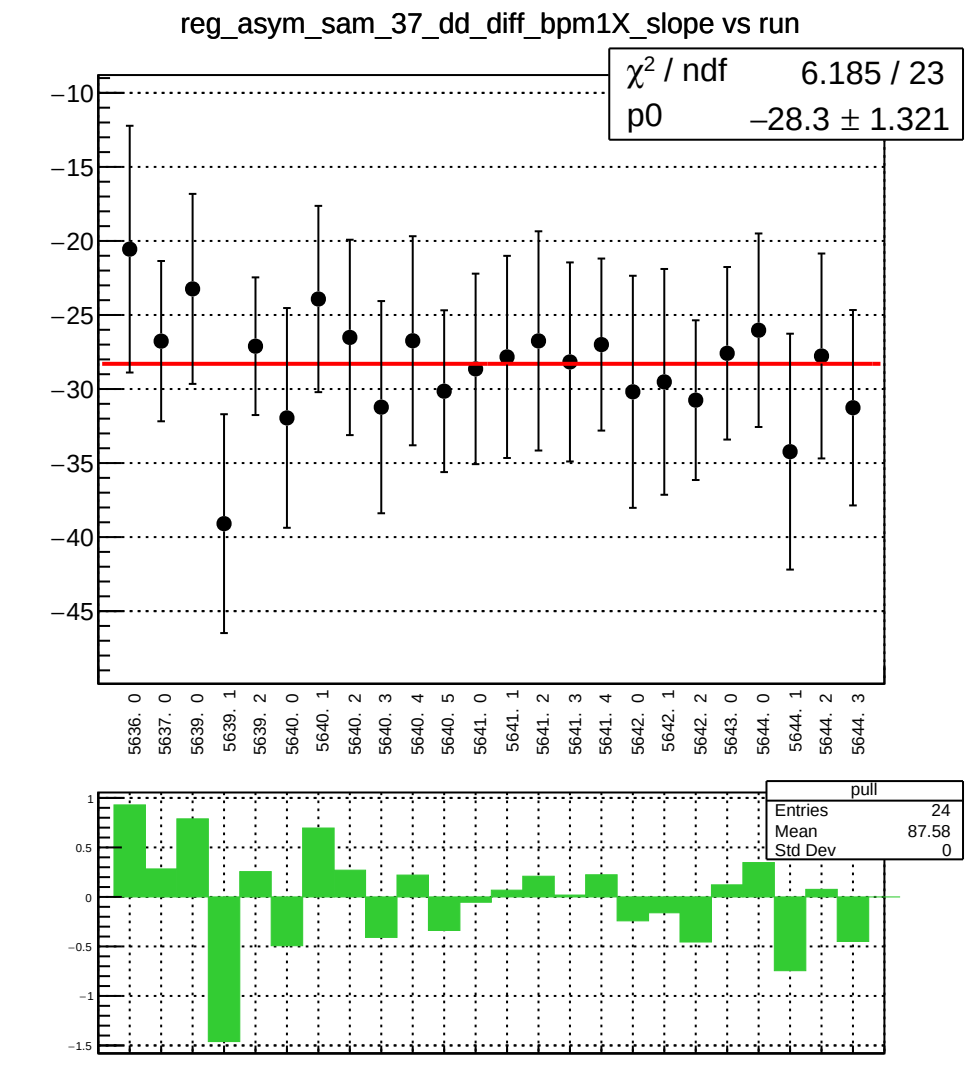

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.079 / 23
p0 2.132 ± 1.594
15
10
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −5.379
Std Dev 0
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 24
Mean −0.004568
Std Dev 0.212
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

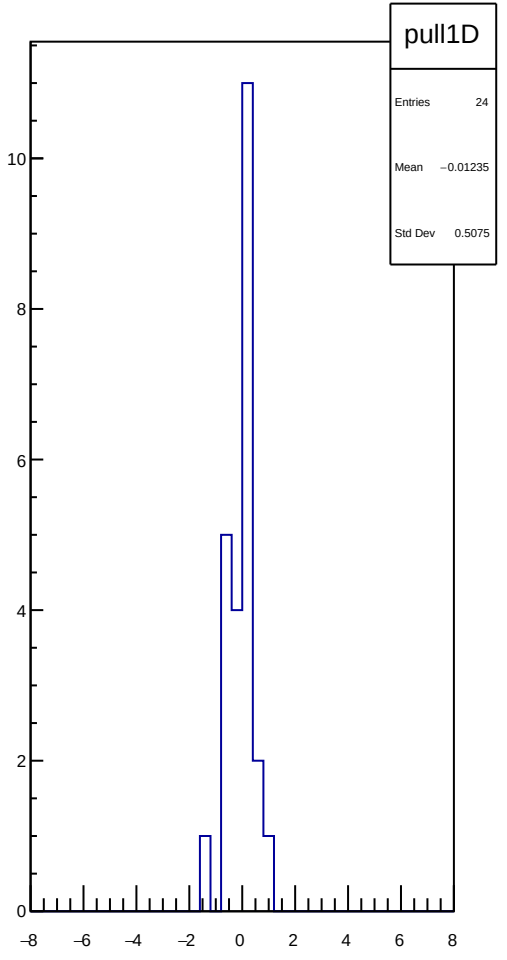

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.689 / 23
p0 −58.84 ± 2.459
−40
−50
−60
−70
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 82.58
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 24
Mean −0.004563
Std Dev 0.2652
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

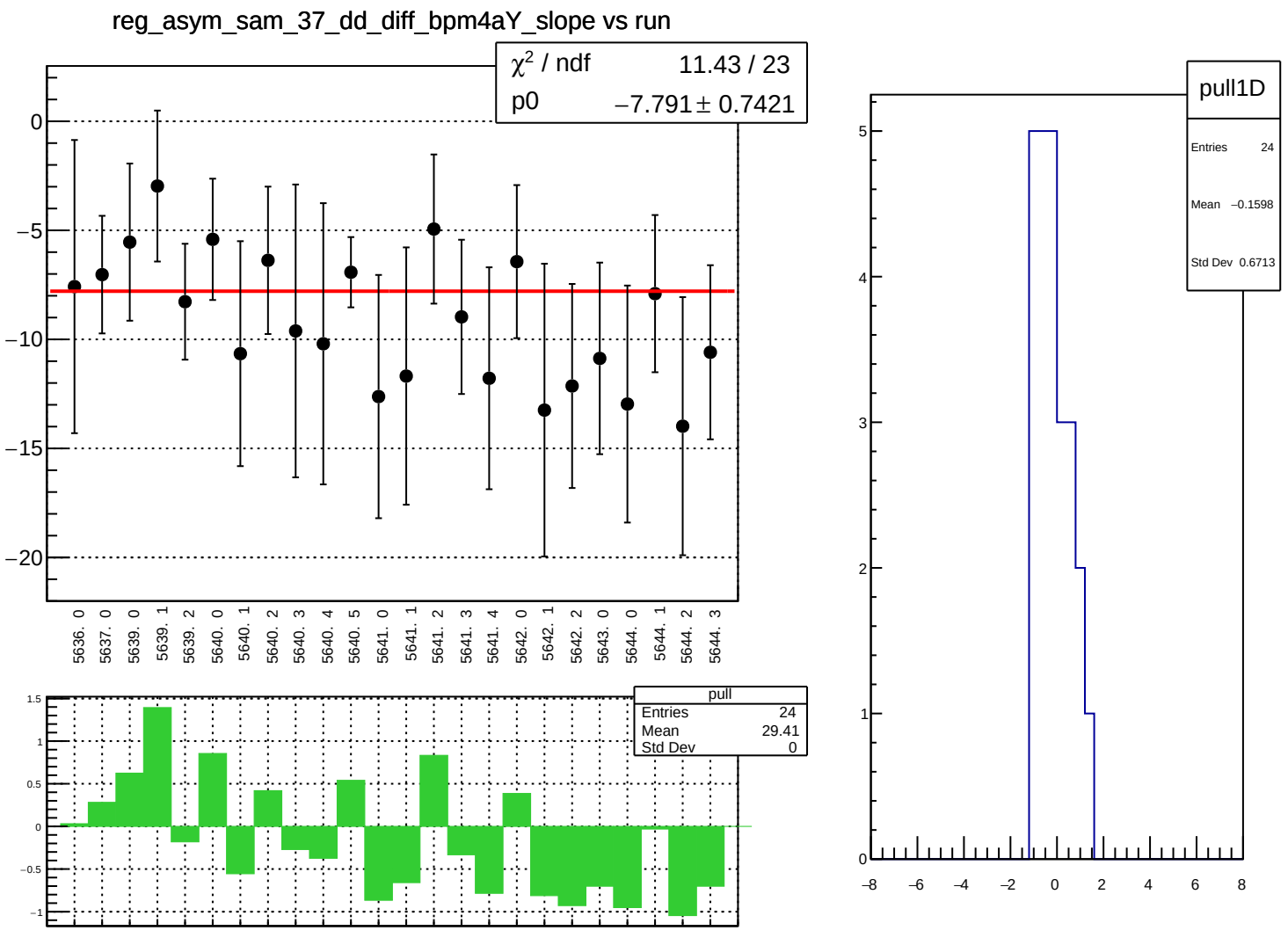

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.115 / 23
p0 2.737 ± 2.026
25
20
15
10
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −76.82
Std Dev 0
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 24
Mean 0.001293
Std Dev 0.2156
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

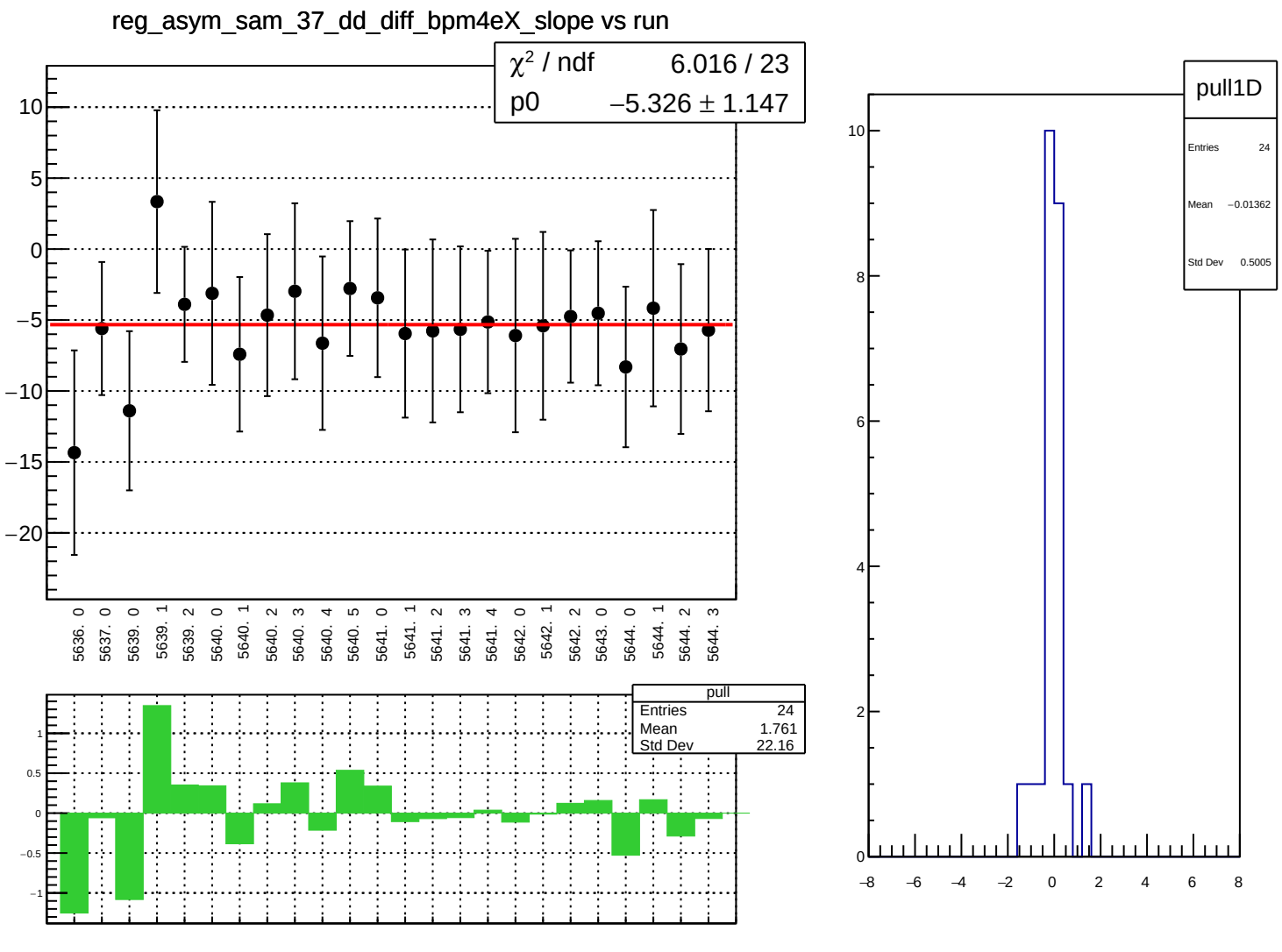

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 0.7329 / 23
p0 −0.5916 ± 0.09999
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 72.7
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2

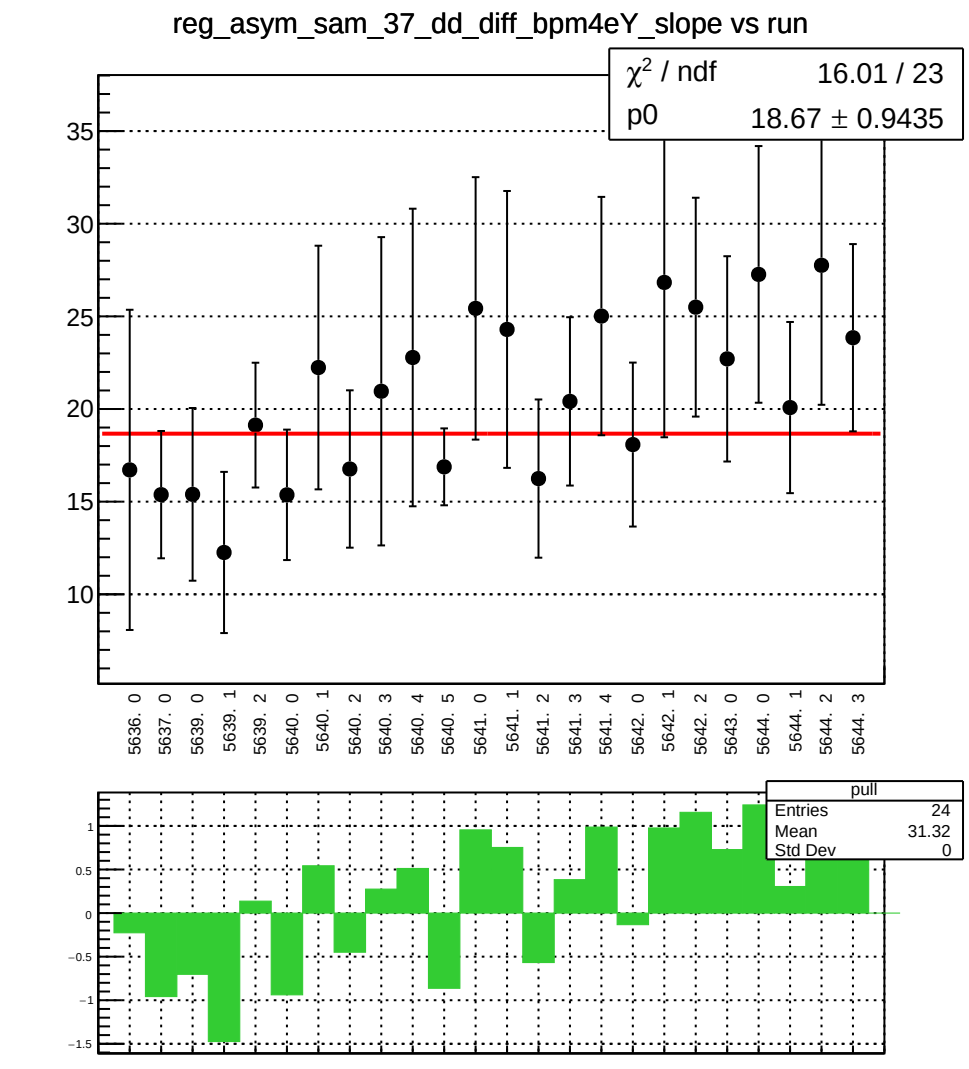

pull1D
Entries 24
Mean −0.001638
Std Dev 0.1747
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

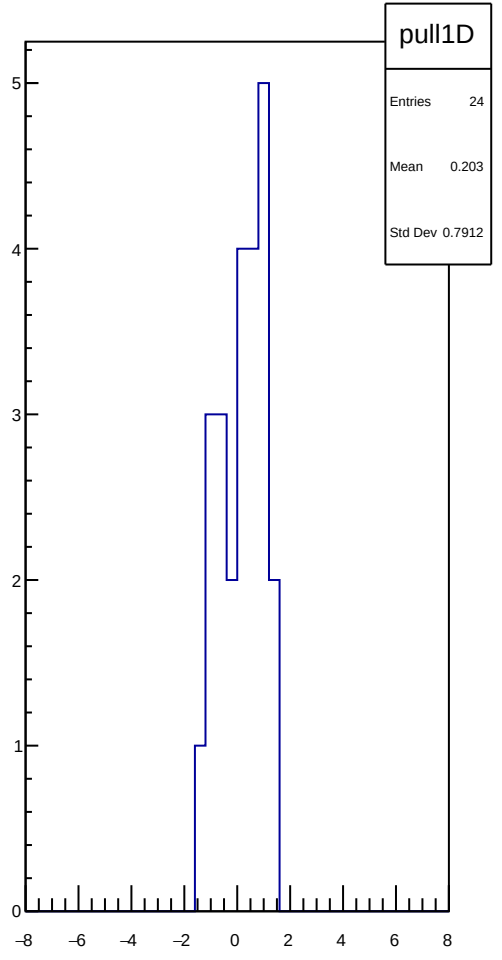

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 6.185 / 23
p0 −28.3 ± 1.321
−10
−15
−20
−25
−30
−35
−40
−45
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 87.58
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

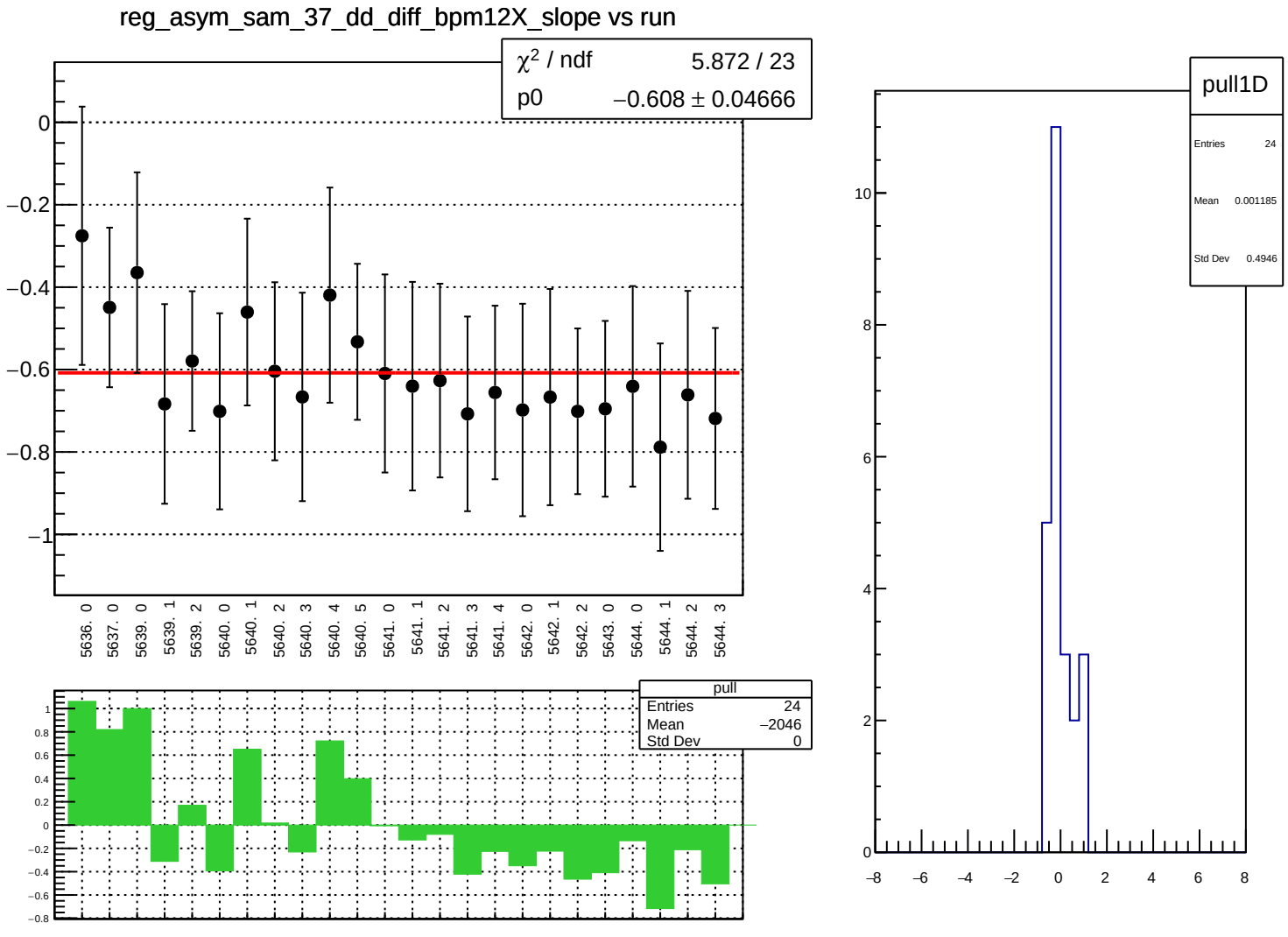

pull1D
Entries 24
Mean −0.01235
Std Dev 0.5075
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

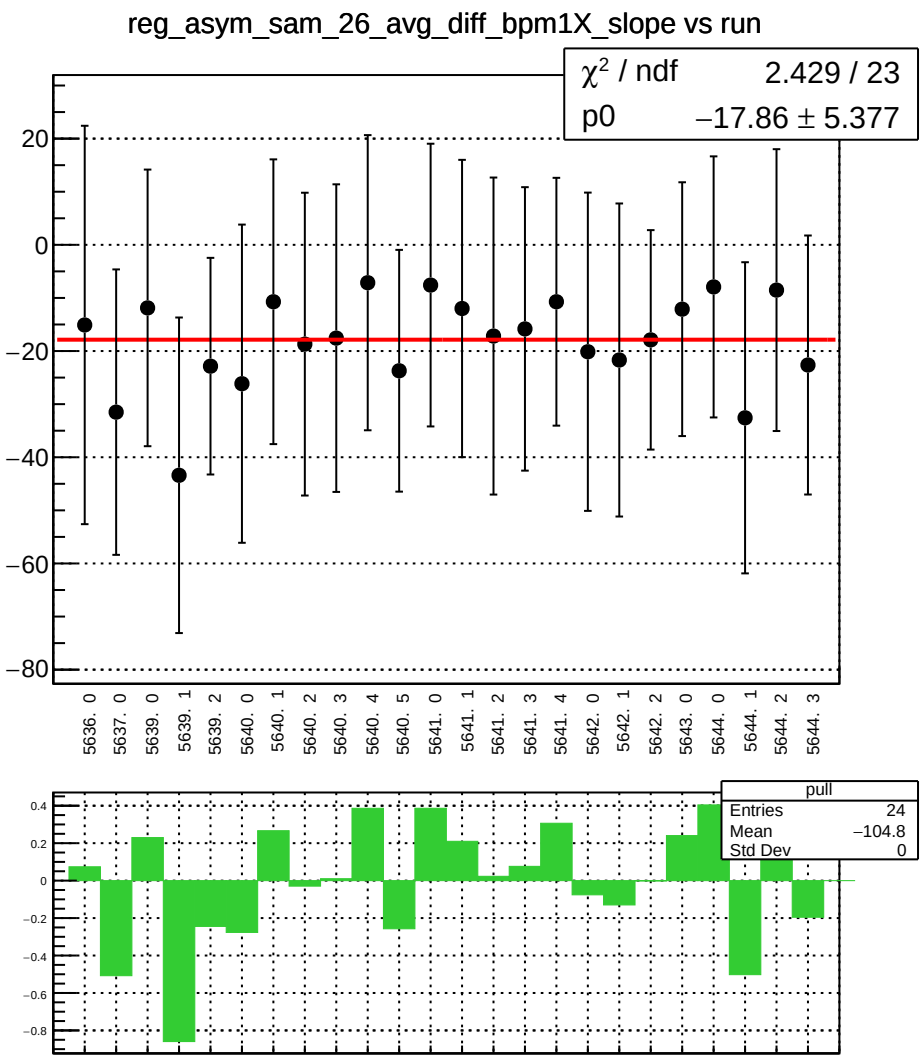

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.43 / 23
p0 −7.791 ± 0.7421
0
−5
−10
−15
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 29.41
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.1598
Std Dev 0.6713
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

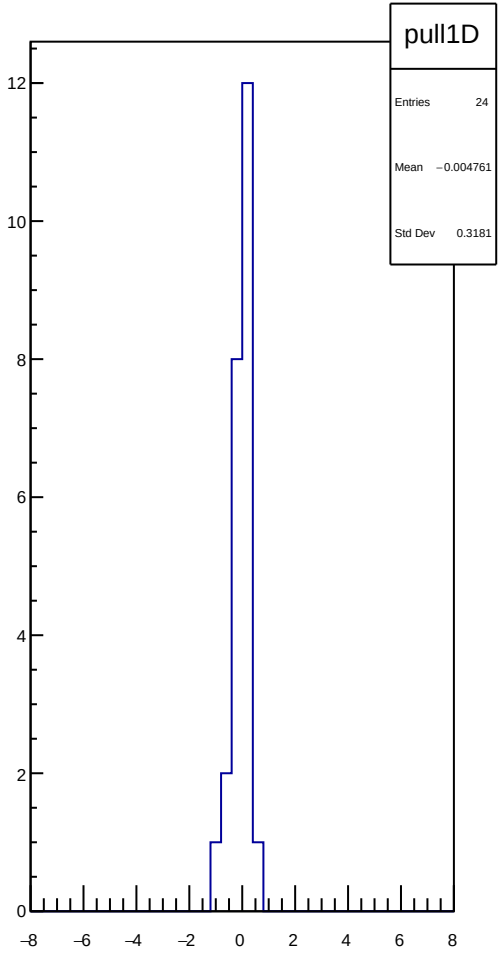

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.016 / 23
p0 −5.326 ± 1.147
10
5
0
−5
−10
−15
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 1.761
Std Dev 22.16
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.01362
Std Dev 0.5005
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

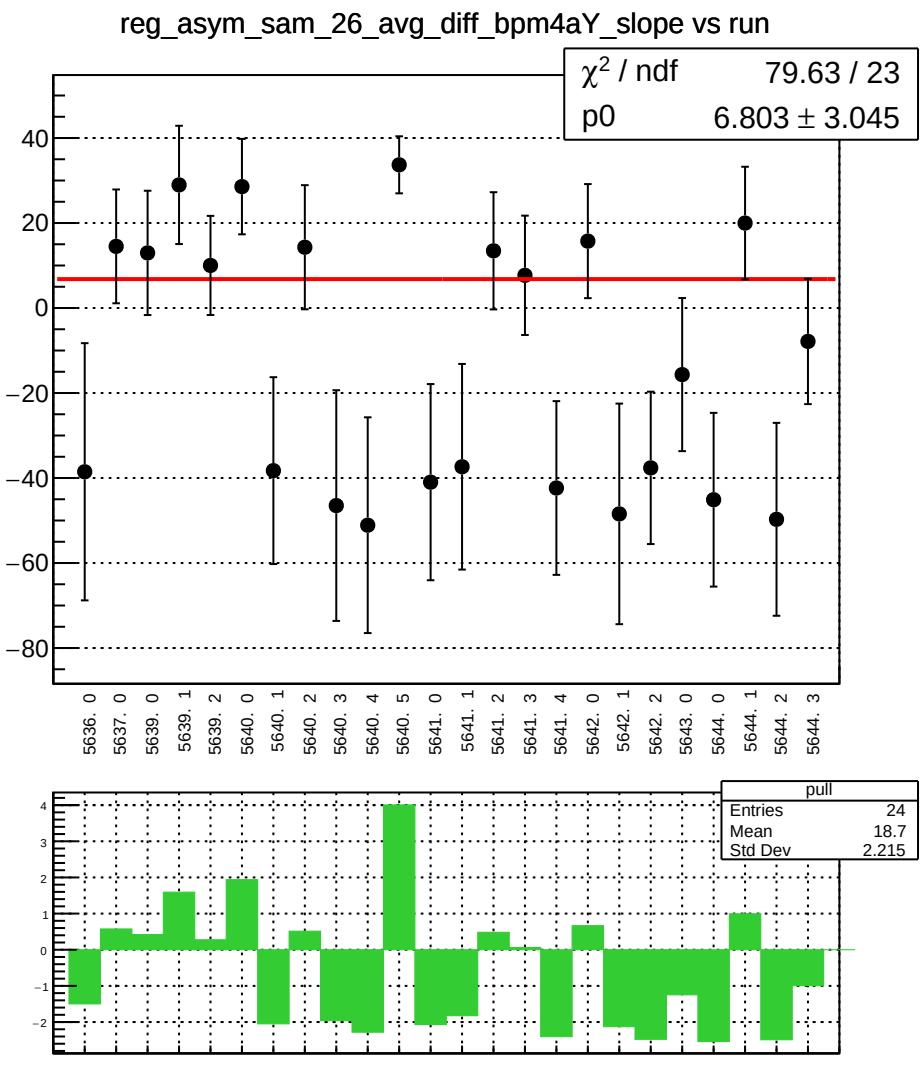

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.01 / 23
p0 18.67 ± 0.9435
35
30
25
20
15
10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 31.32
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

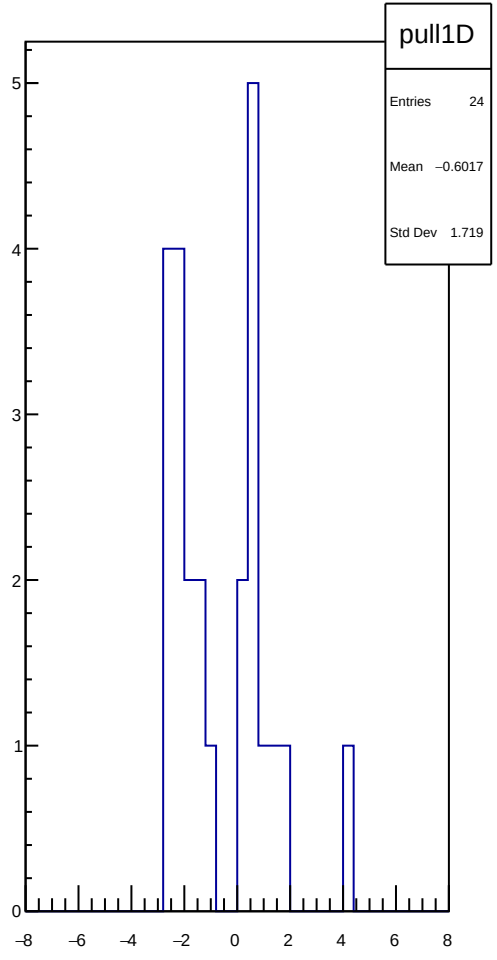

pull1D
Entries 24
Mean 0.203
Std Dev 0.7912
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

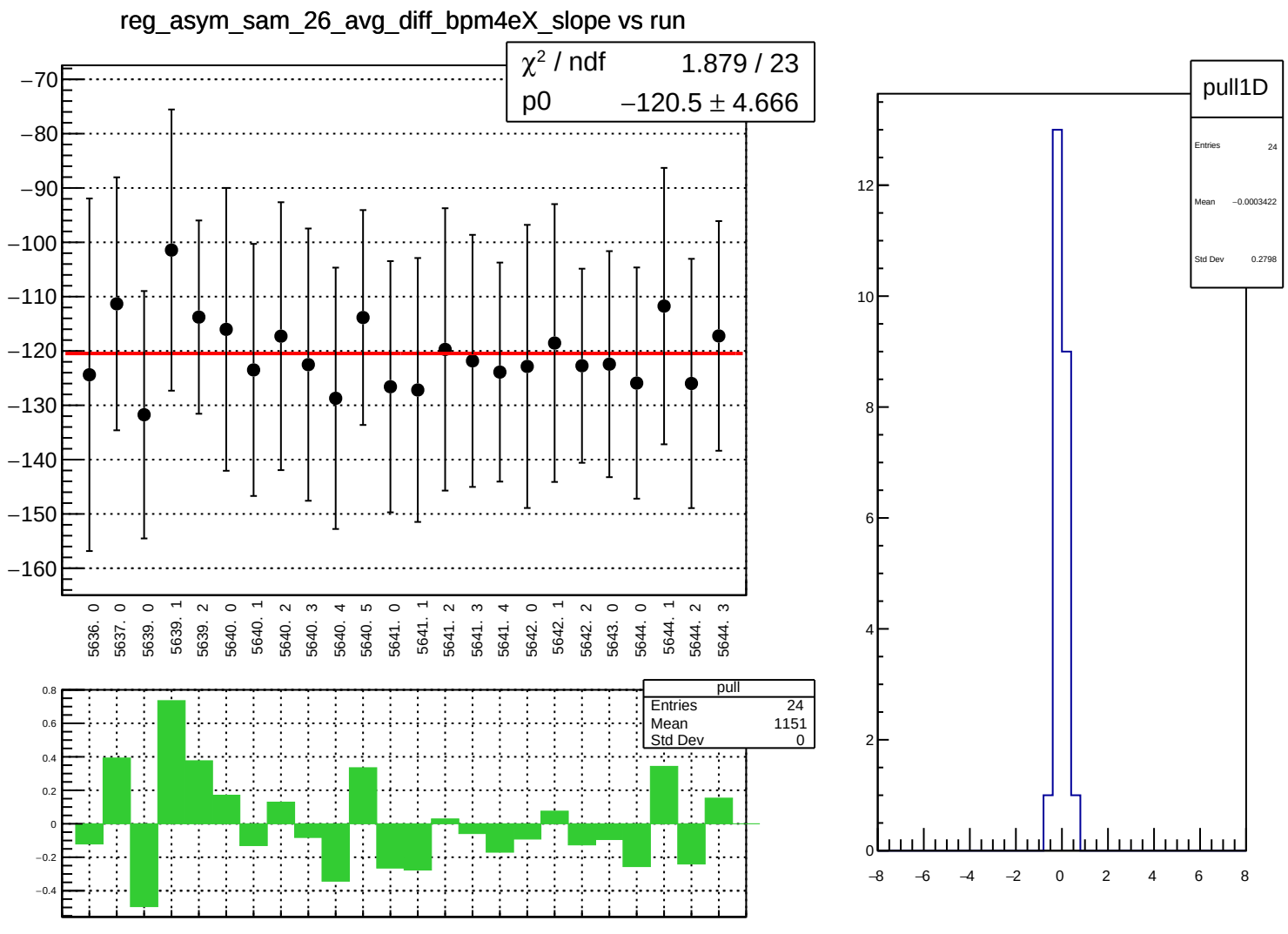

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 5.872 / 23
p0 −0.608 ± 0.04666
0
−0.2
−0.4
−0.6
−0.8
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −2046
Std Dev 0
pull1D
Entries 24
Mean 0.001185
Std Dev 0.4946
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

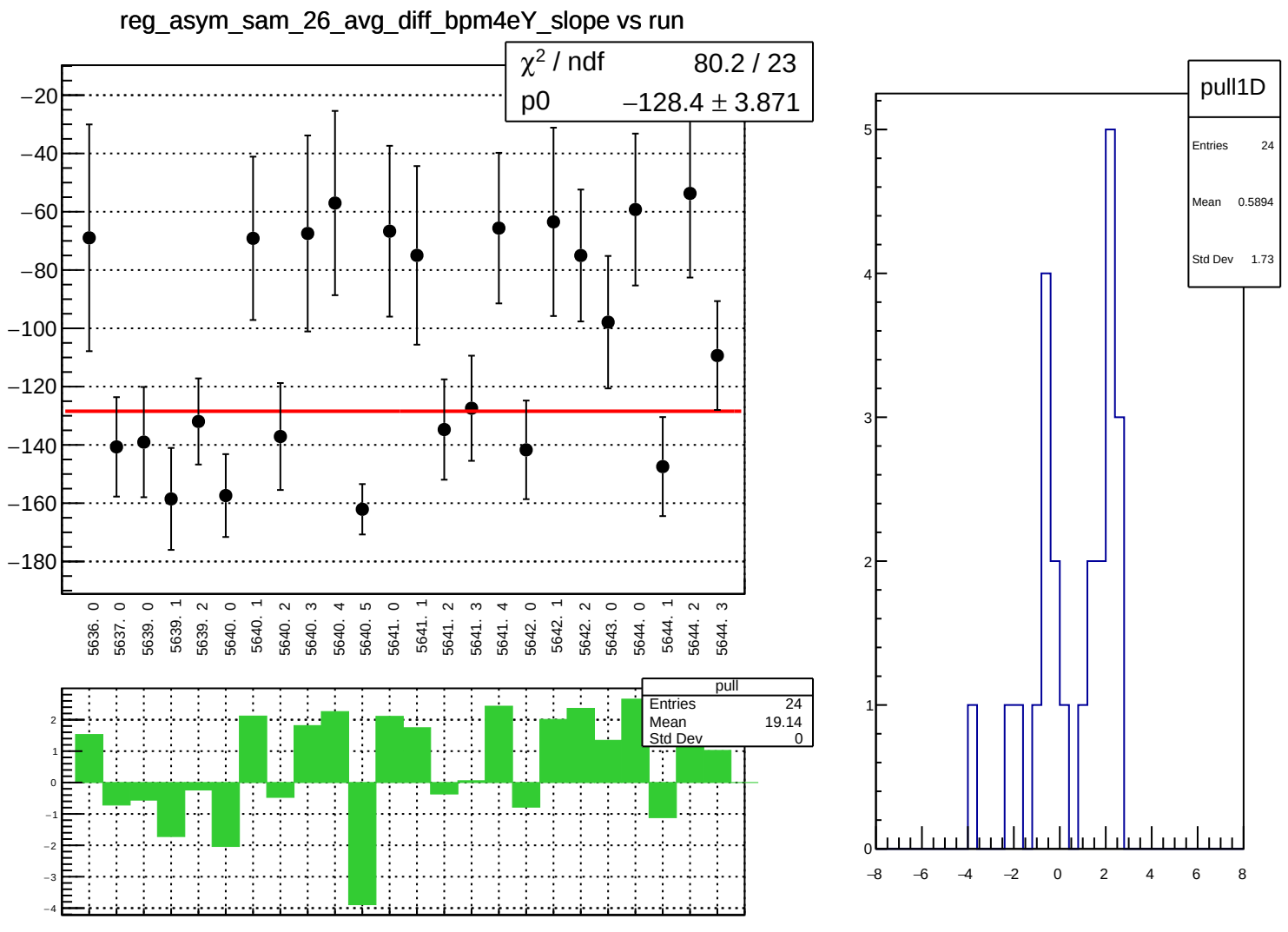

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 2.429 / 23
p0 −17.86 ± 5.377
20
0
−20
−40
−60
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −104.8
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

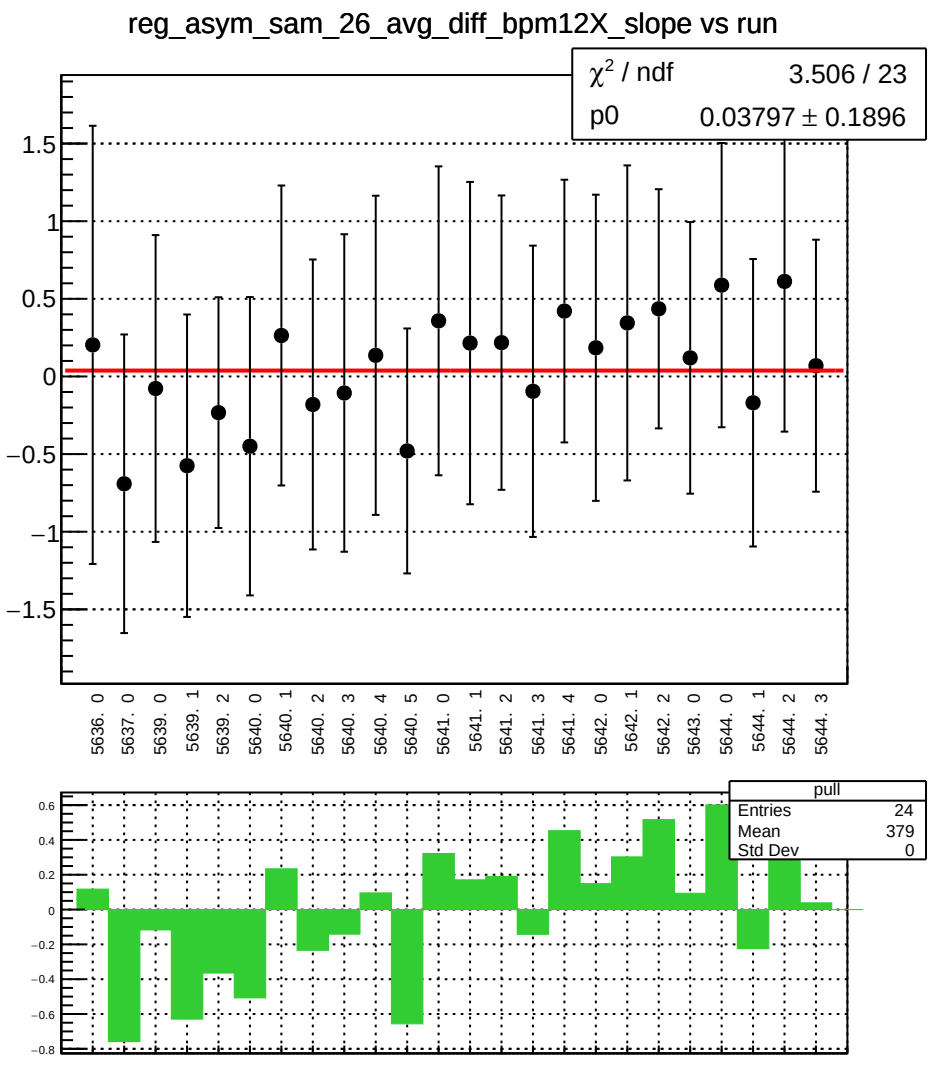

pull1D
Entries 24
Mean −0.004761
Std Dev 0.3181
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

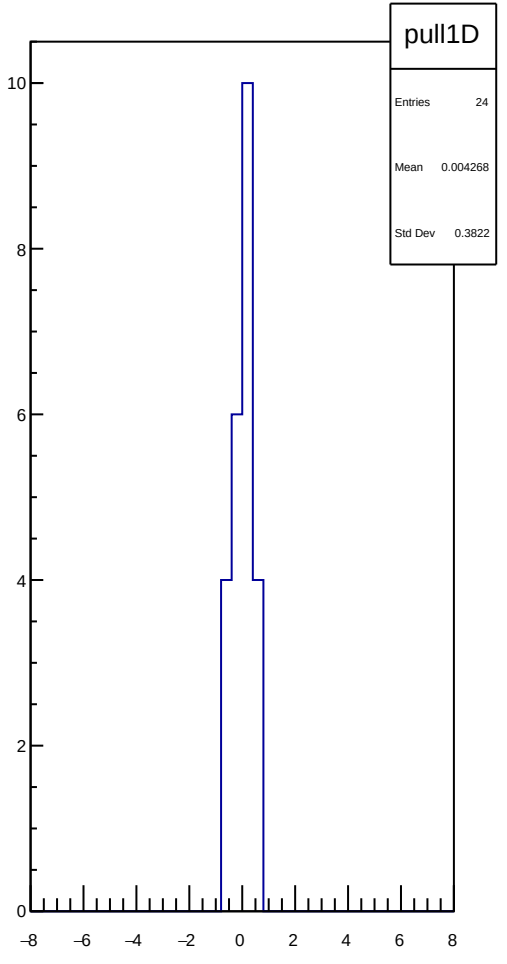

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 79.63 / 23
p0 6.803 ± 3.045
40
20
0
−20
−40
−60
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 18.7
Std Dev 2.215
4
3
2
1
0
−1
−2

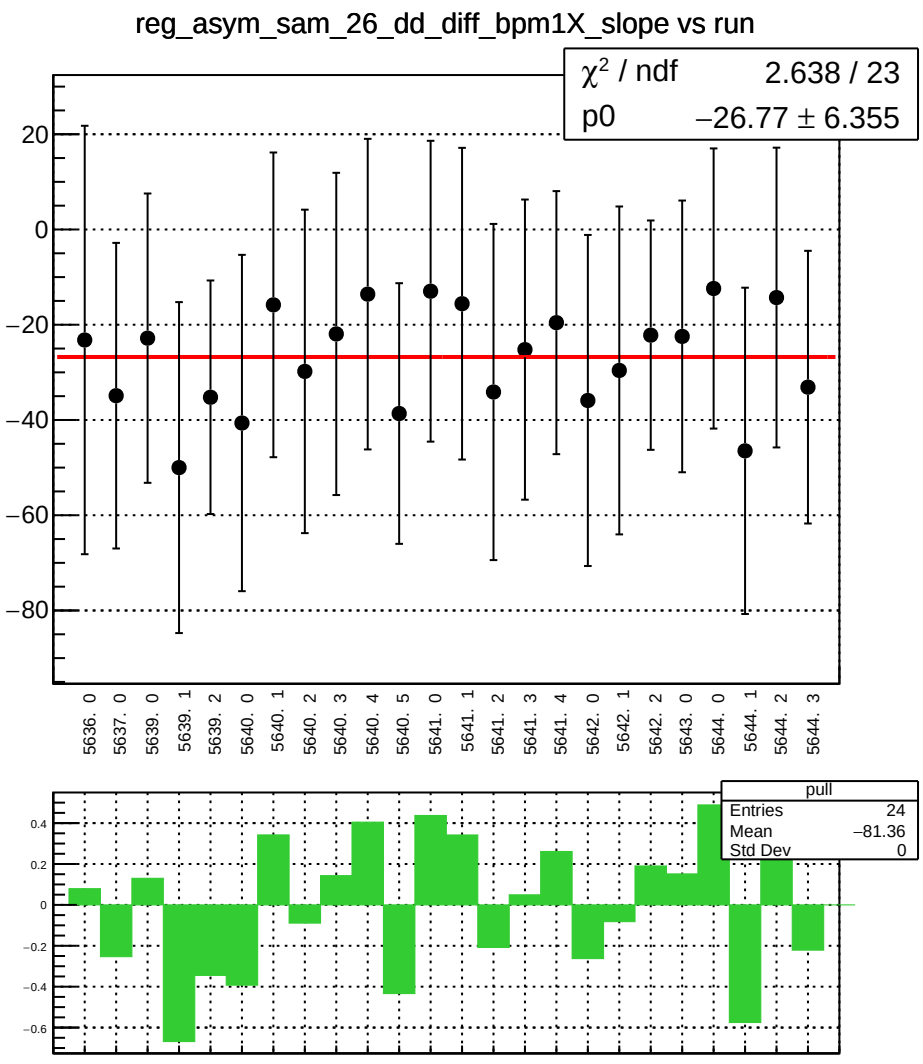

pull1D
Entries 24
Mean −0.6017
Std Dev 1.719
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

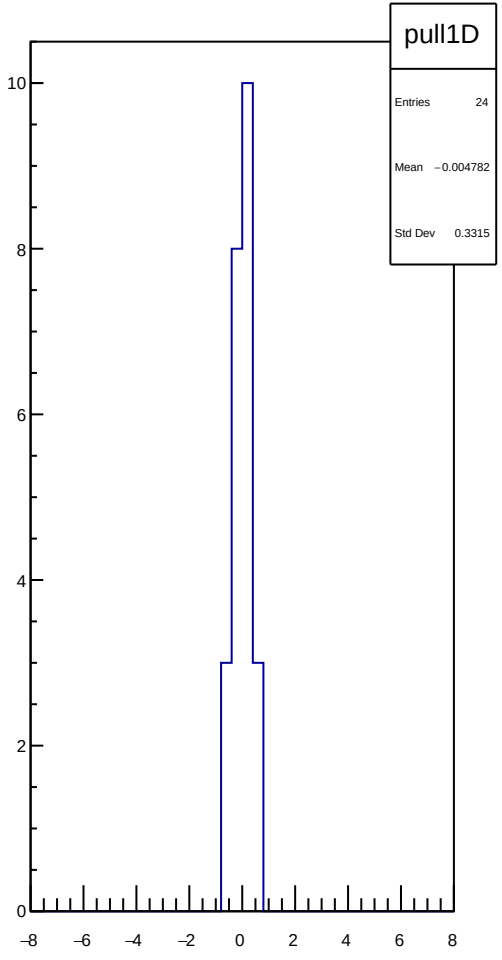

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.879 / 23
p0 −120.5 ± 4.666
−70
−80
−90
−100
−110
−120
−130
−140
−150
−160
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 1151
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 24
Mean −0.0003422
Std Dev 0.2798
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

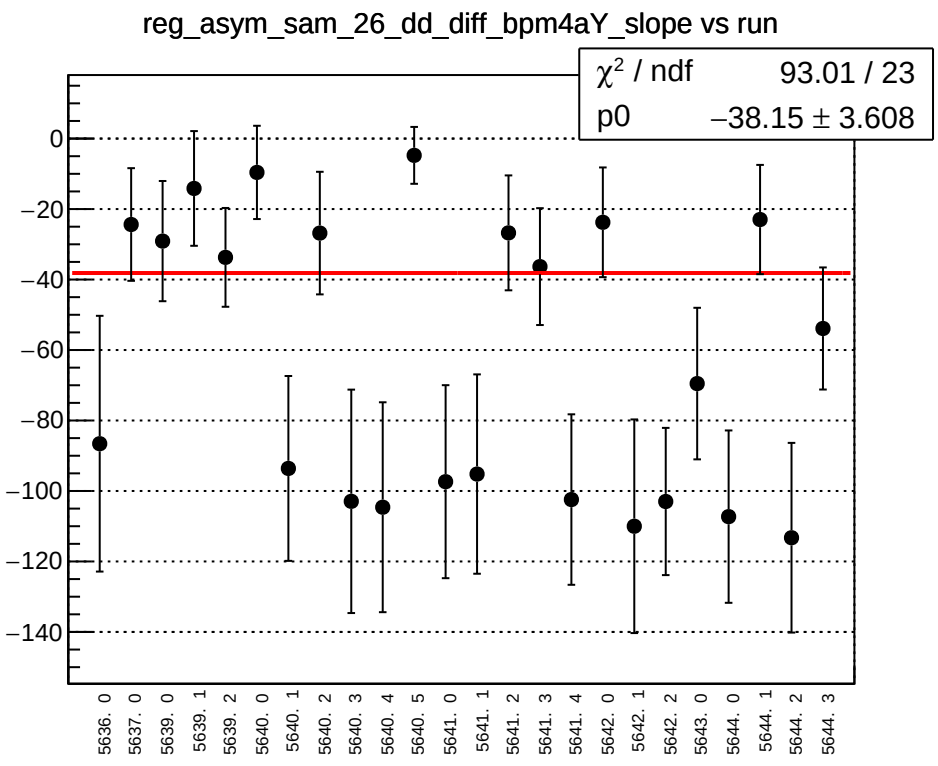

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 80.2 / 23
p0 −128.4 ± 3.871
−20
−40
−60
−80
−100
−120
−140
−160
−180
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 19.14
Std Dev 0
pull1D
Entries 24
Mean 0.5894
Std Dev 1.73

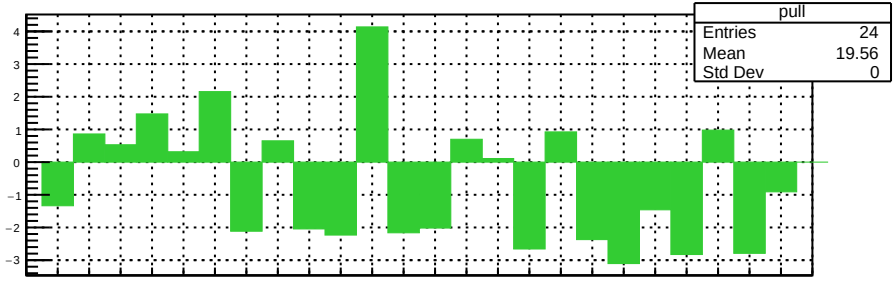

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 3.506 / 23
p0 0.03797 ± 0.1896
1.5
1
0.5
0
−0.5
−1
−1.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 379
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

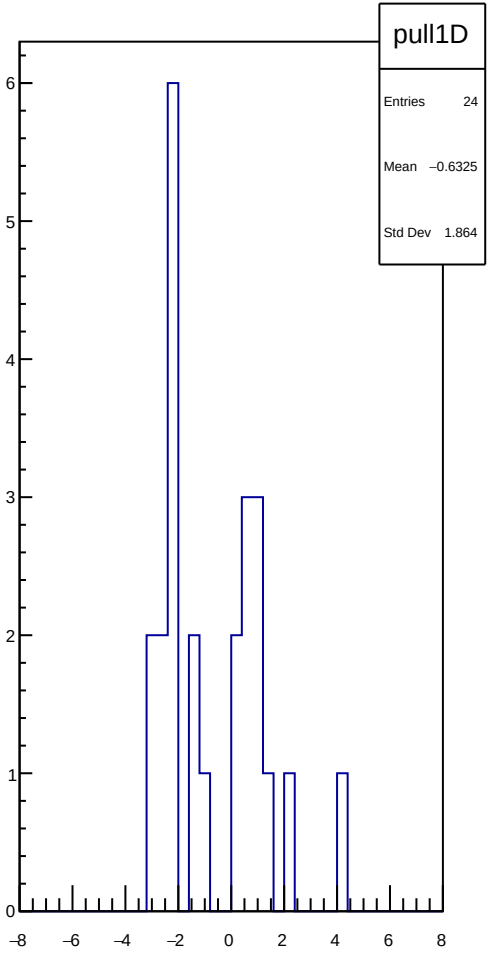

pull1D
Entries 24
Mean 0.004268
Std Dev 0.3822
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

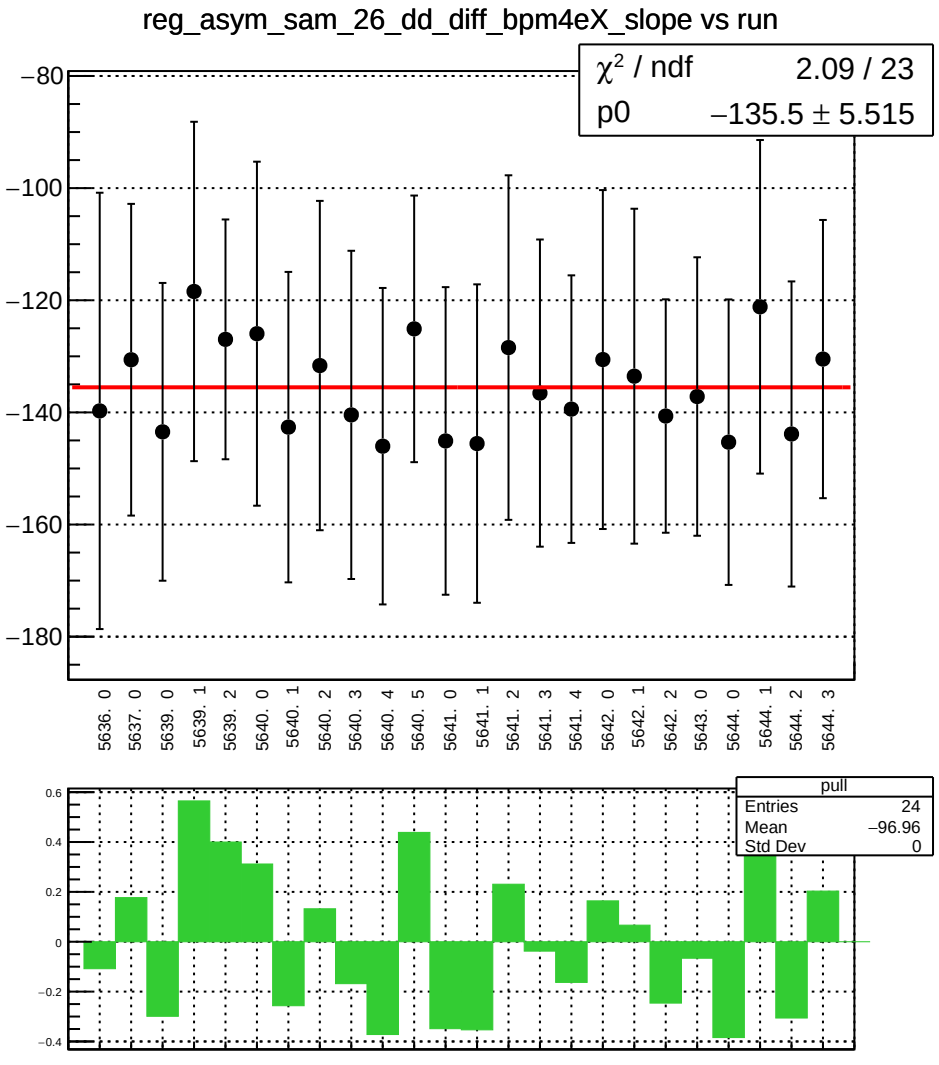

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 2.638 / 23
p0 −26.77 ± 6.355
20
0
−20
−40
−60
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −81.36
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

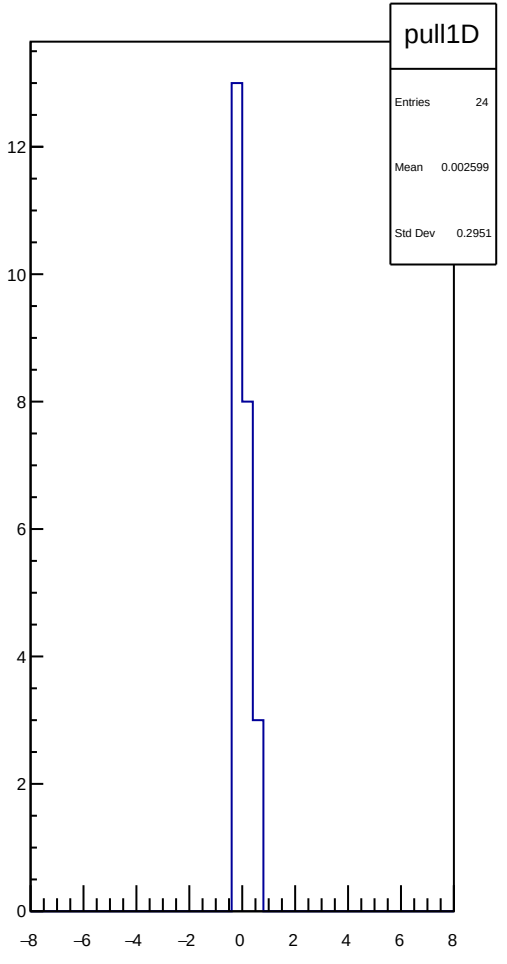

pull1D
Entries 24
Mean −0.004782
Std Dev 0.3315
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

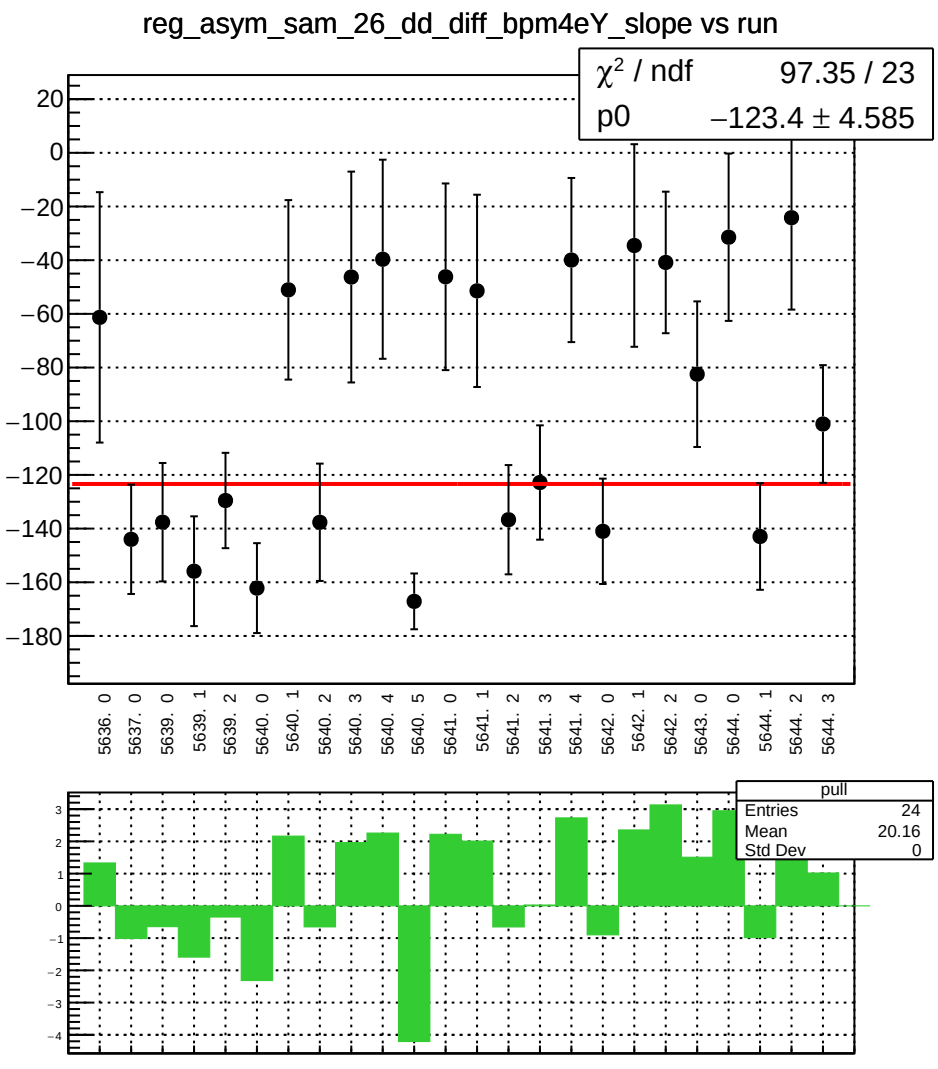

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 93.01 / 23
p0 −38.15 ± 3.608
0
−20
−40
−60
−80
−100
−120
−140
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

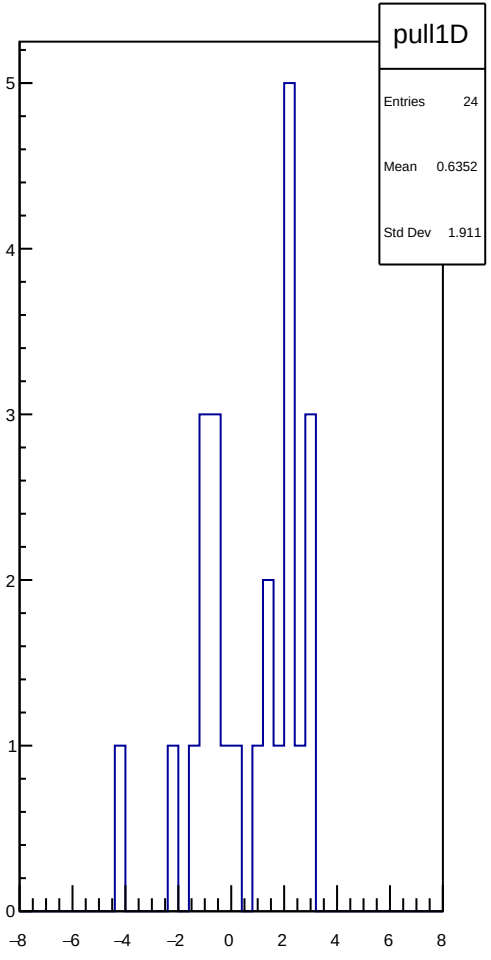

pull
Entries 24
Mean 19.56
Std Dev 0
4
3
2
1
0
−1
−2
−3

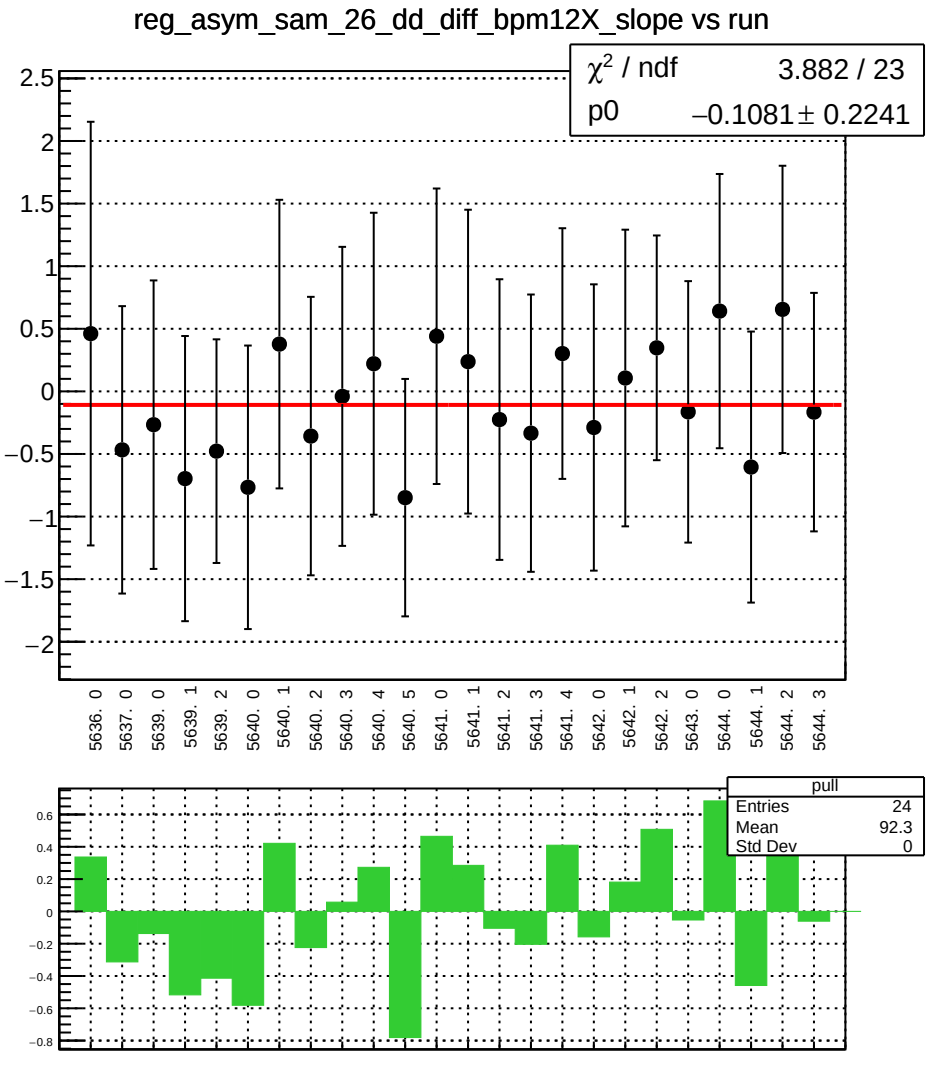

pull1D
Entries 24
Mean −0.6325
Std Dev 1.864
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

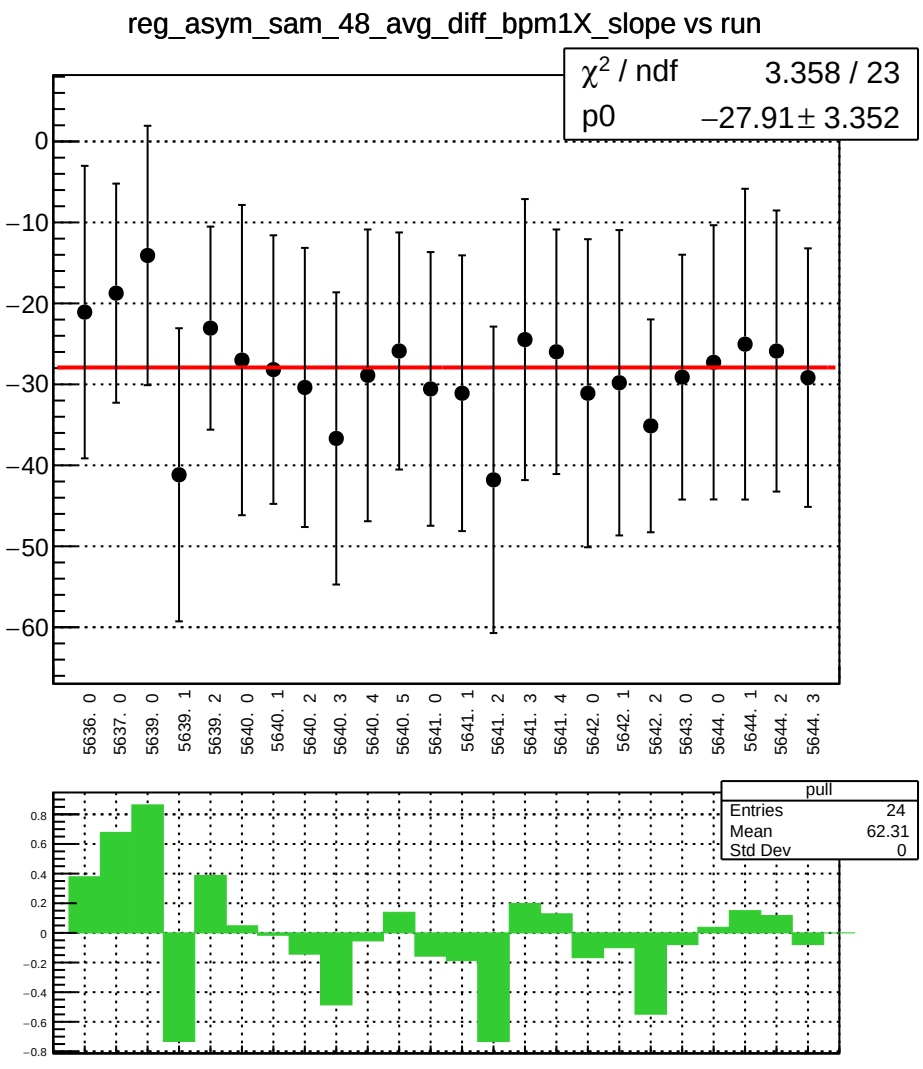

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.09 / 23
p0 −135.5 ± 5.515
−80
−100
−120
−140
−160
−180
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −96.96
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

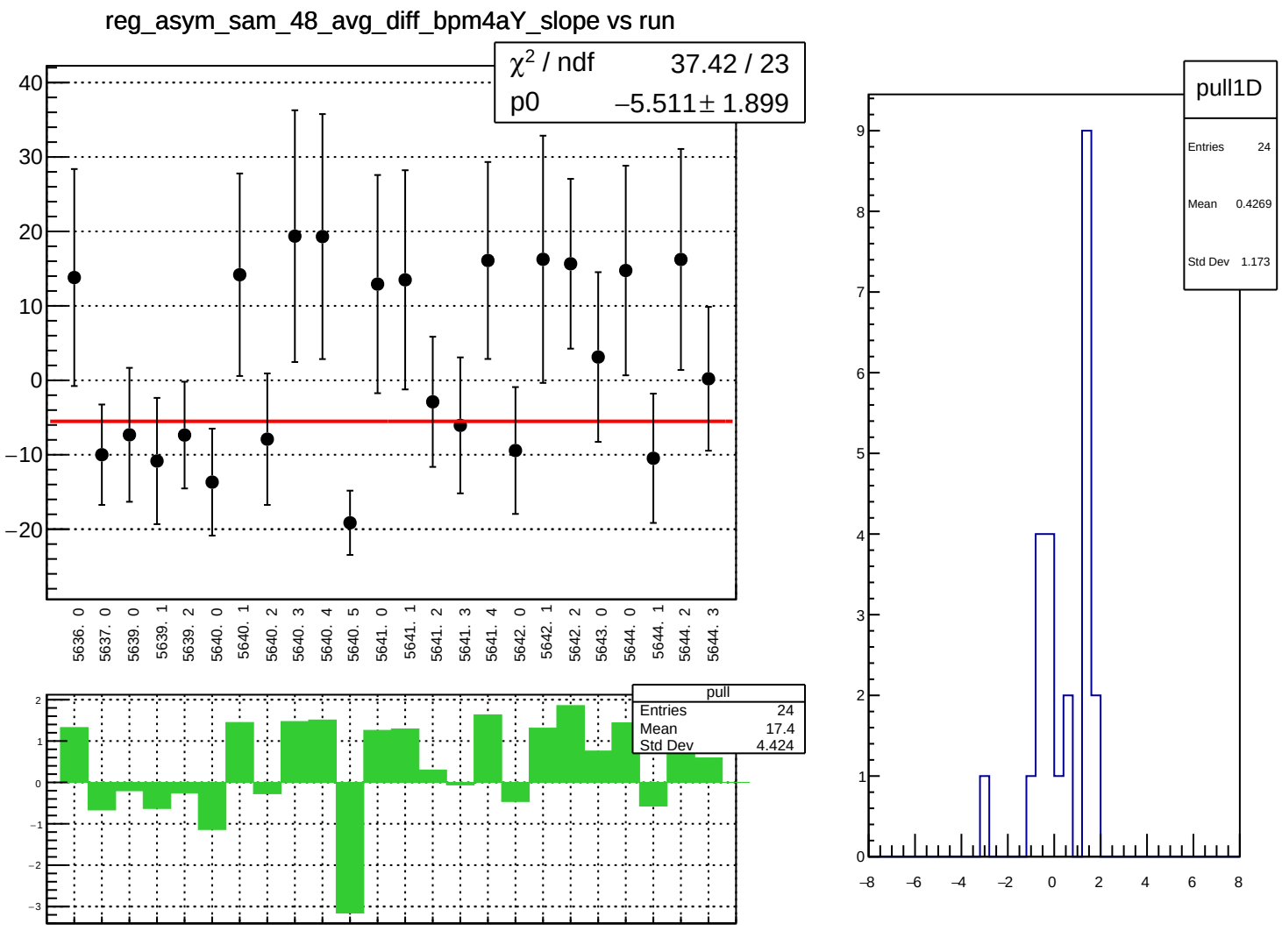

pull1D
Entries 24
Mean 0.002599
Std Dev 0.2951
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

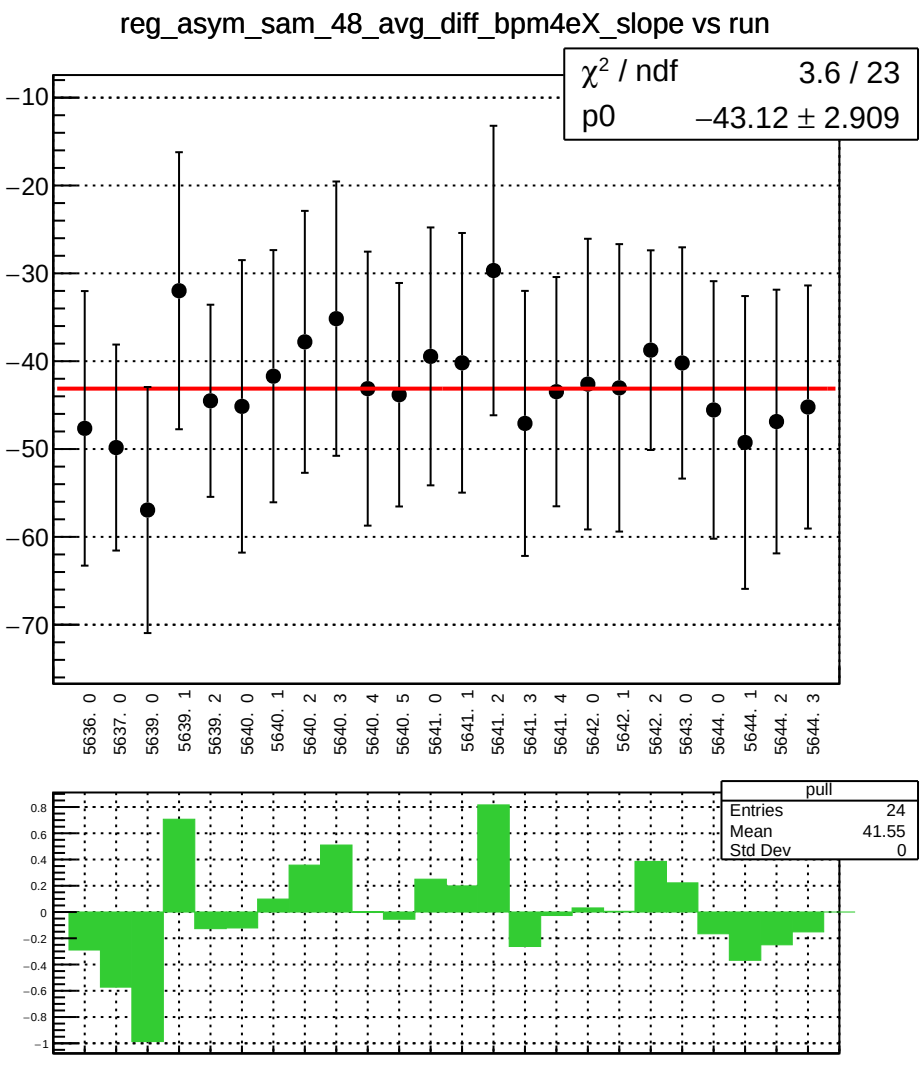

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 97.35 / 23
p0 −123.4 ± 4.585
20
0
−20
−40
−60
−80
−100
−120
−140
−160
−180
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 20.16
Std Dev 0
3
2
1
0
−1
−2
−3
−4

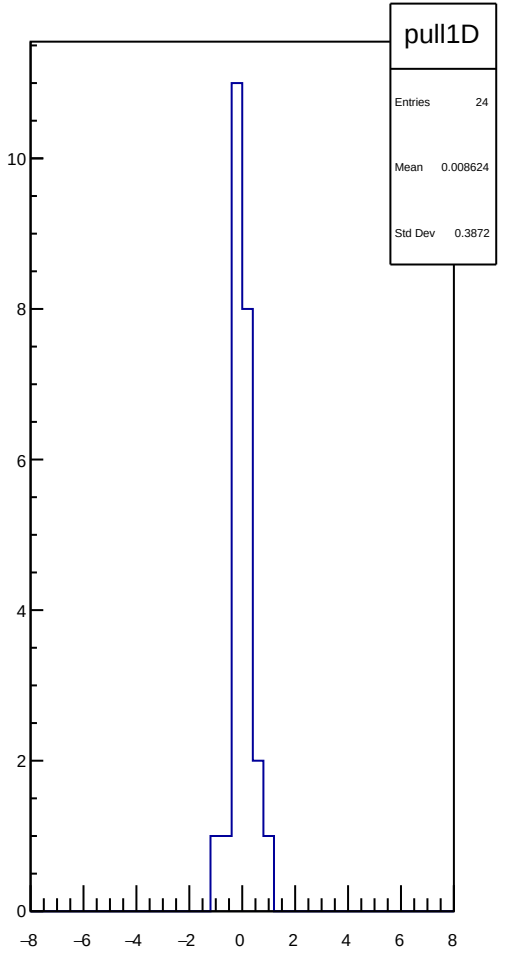

pull1D
Entries 24
Mean 0.6352
Std Dev 1.911
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

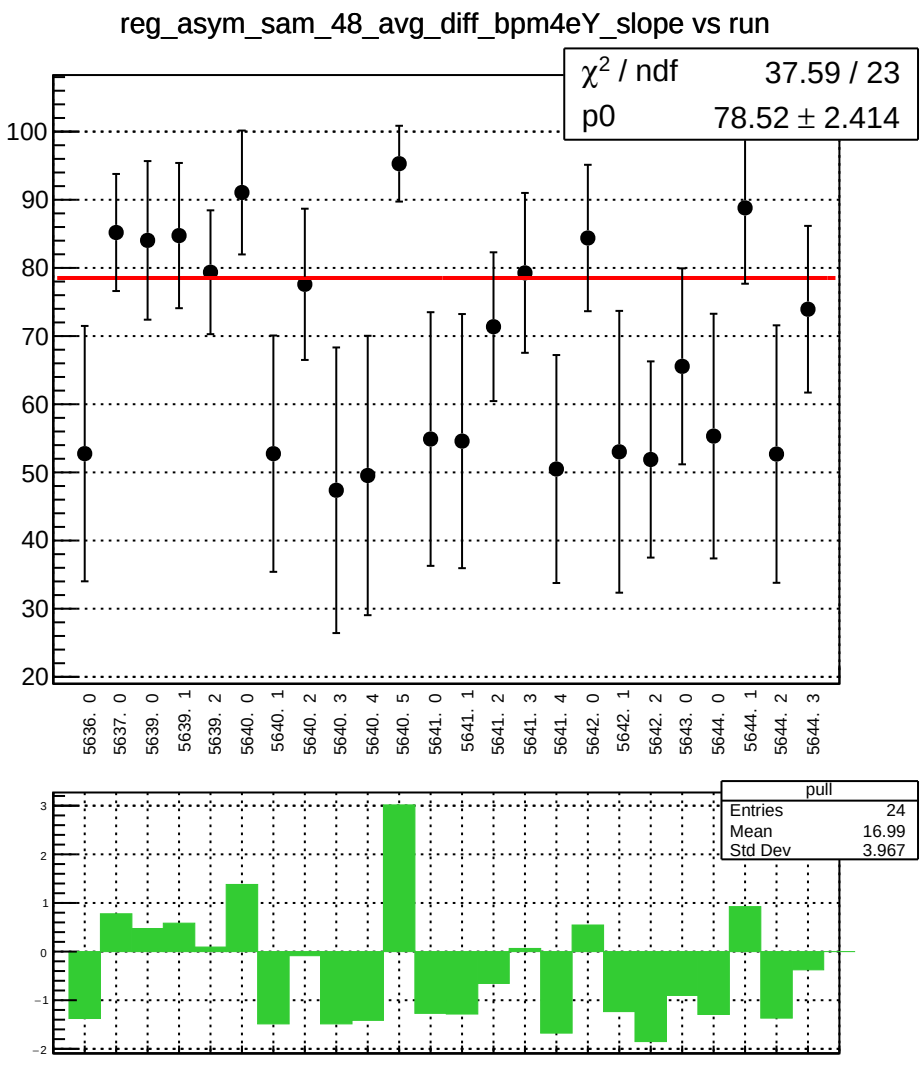

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 3.882 / 23
p0 −0.1081 ± 0.2241
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 92.3
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean 0.01172
Std Dev 0.402
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

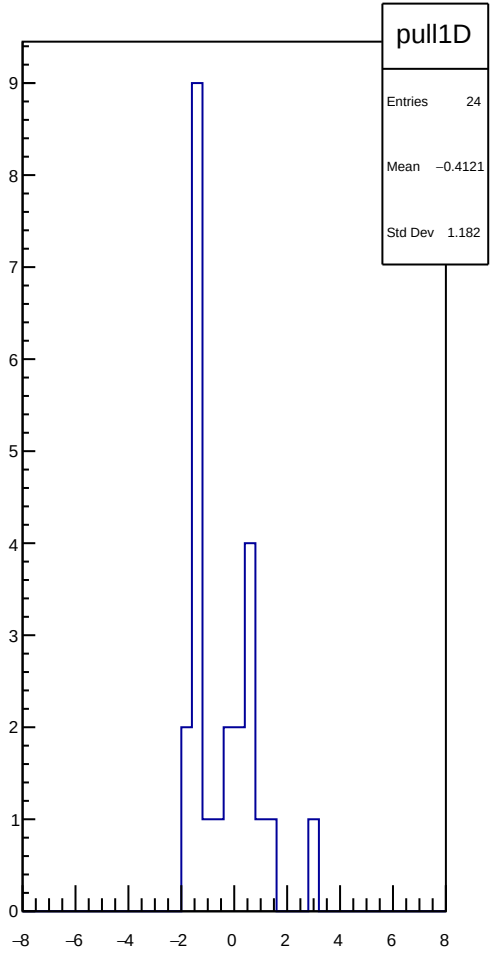

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 3.358 / 23
p0 −27.91± 3.352
0
−10
−20
−30
−40
−50
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 62.31
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean −0.0148
Std Dev 0.3738
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

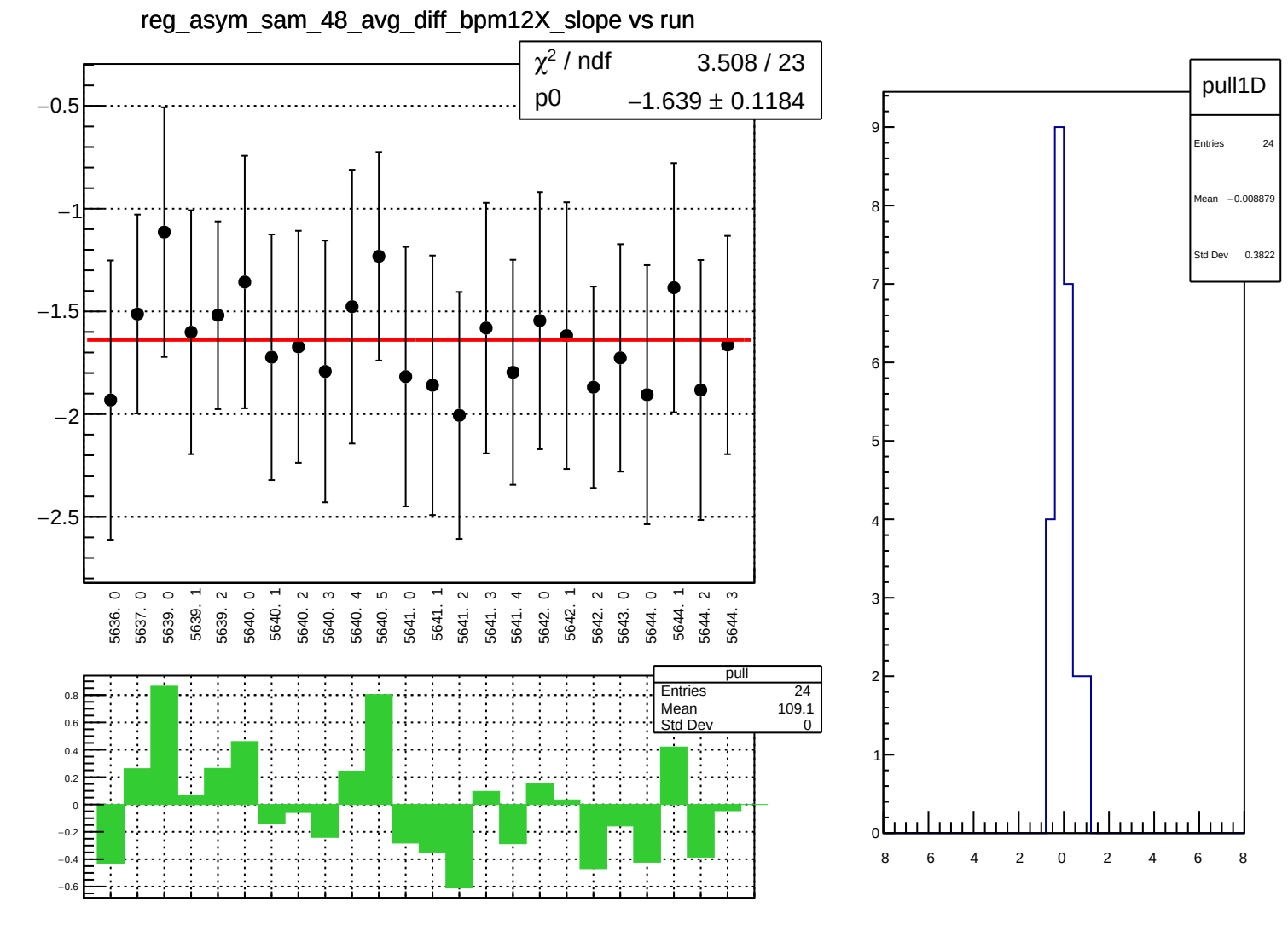

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 37.42 / 23
p0 −5.511 ± 1.899
40
30
20
10
0
−10
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 17.4
Std Dev 4.424
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean 0.4269
Std Dev 1.173
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

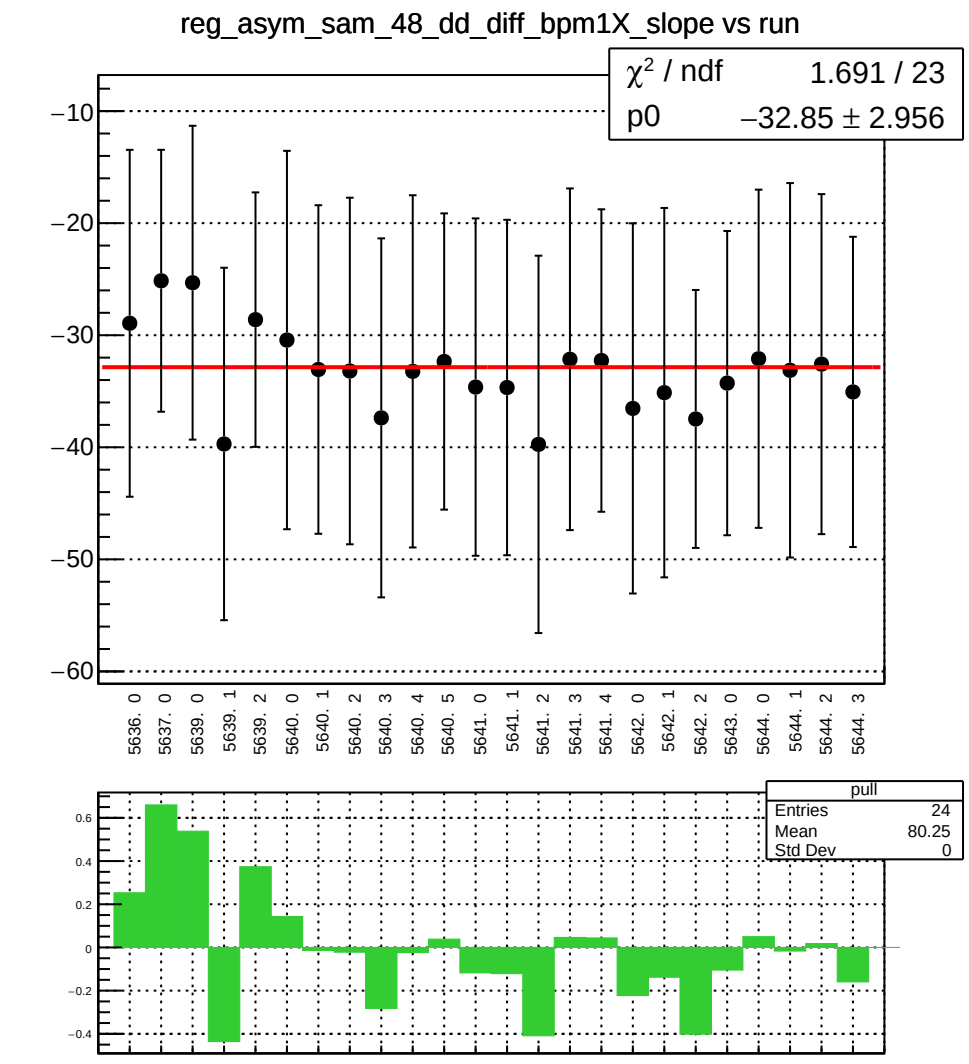

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.6 / 23
p0 −43.12 ± 2.909
−10
−20
−30
−40
−50
−60
−70
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 41.55
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

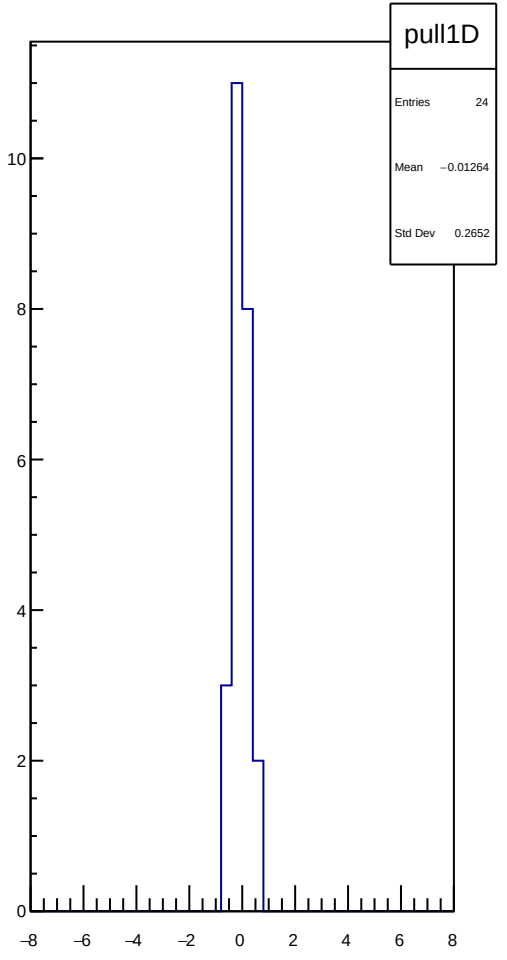

pull1D
Entries 24
Mean 0.008624
Std Dev 0.3872
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

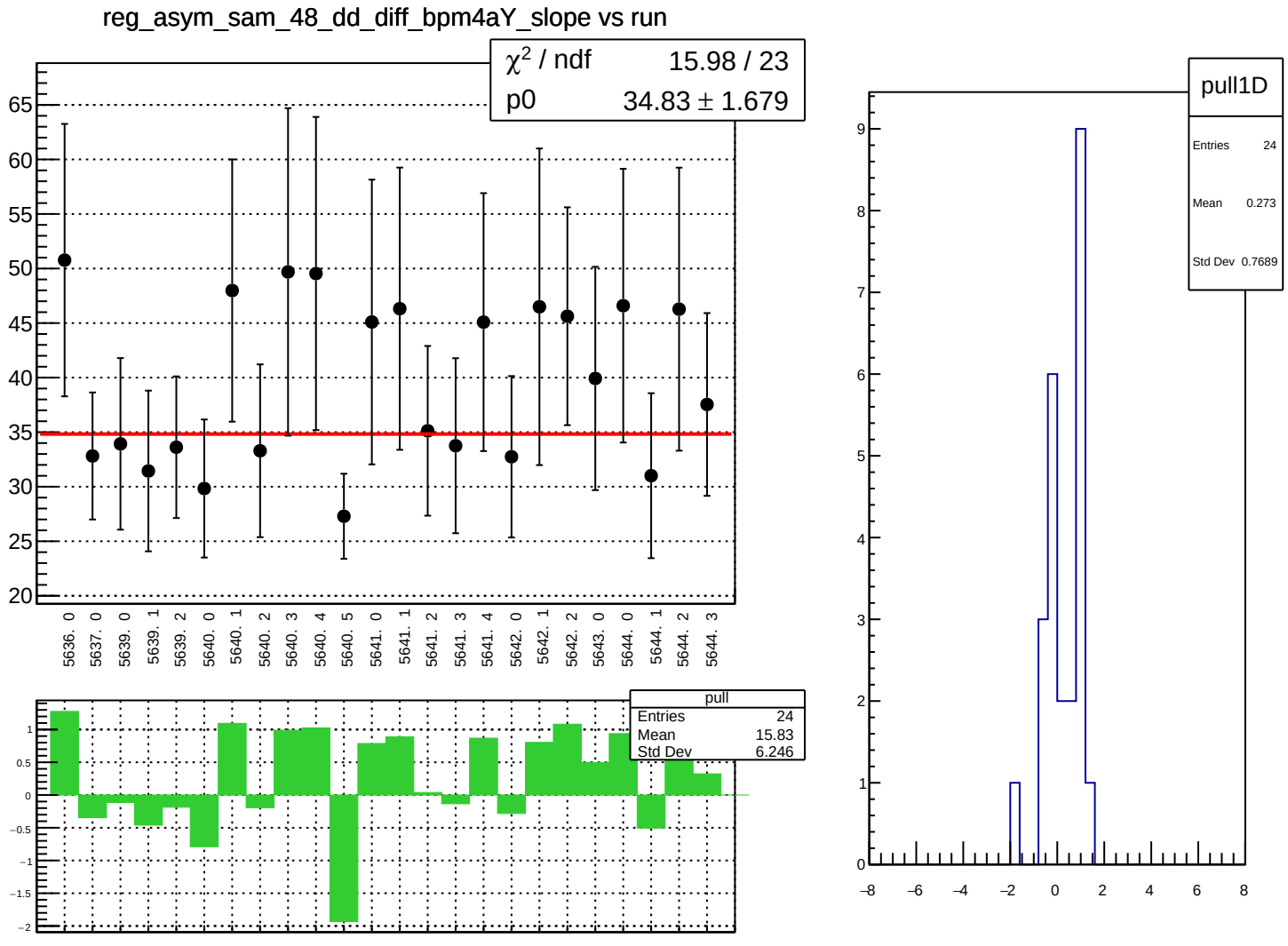

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 37.59 / 23
p0 78.52 ± 2.414
100
90
80
70
60
50
40
30
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 16.99
Std Dev 3.967
3
2
1
0
−1
−2

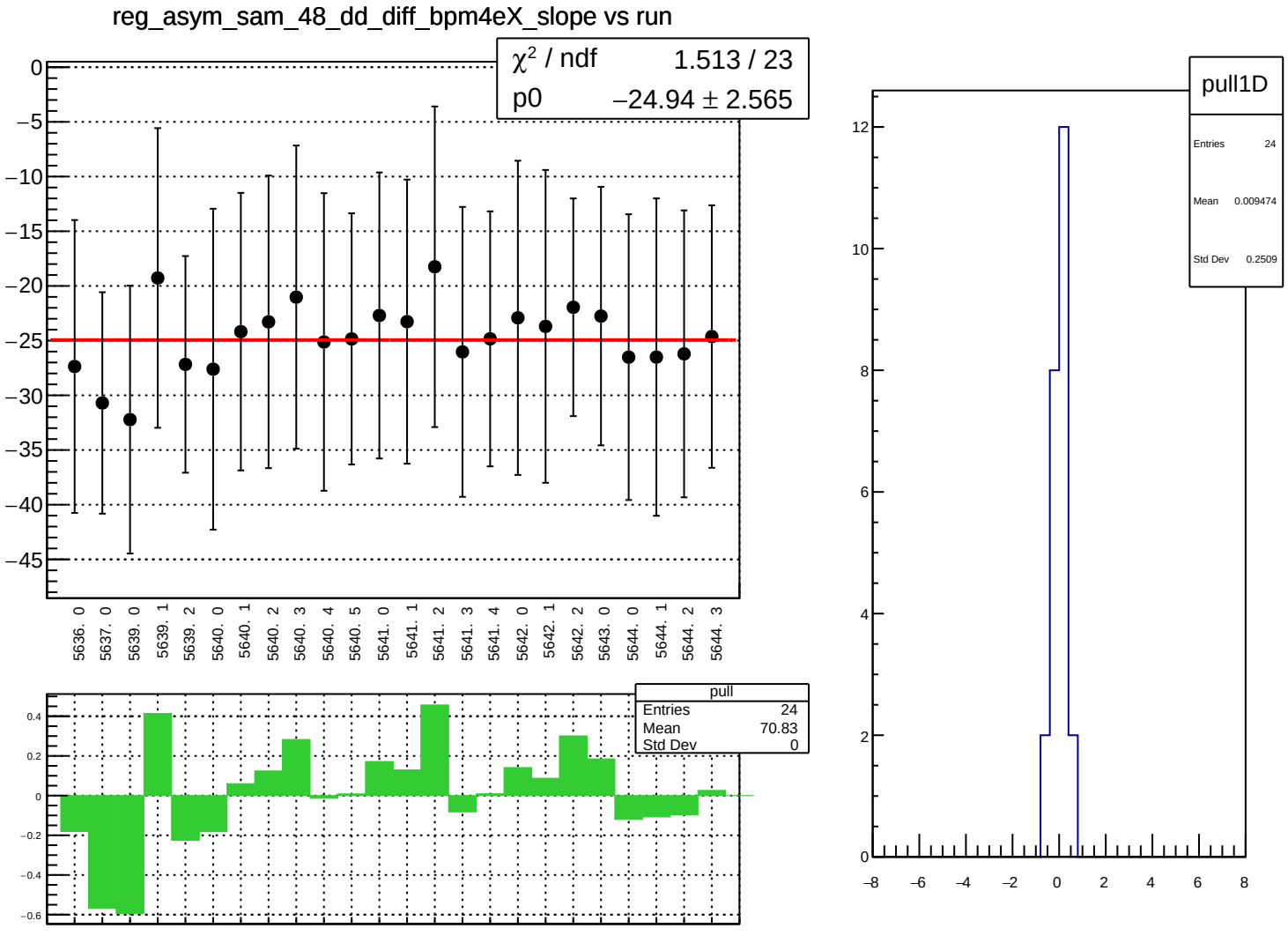

pull1D
Entries 24
Mean −0.4121
Std Dev 1.182
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

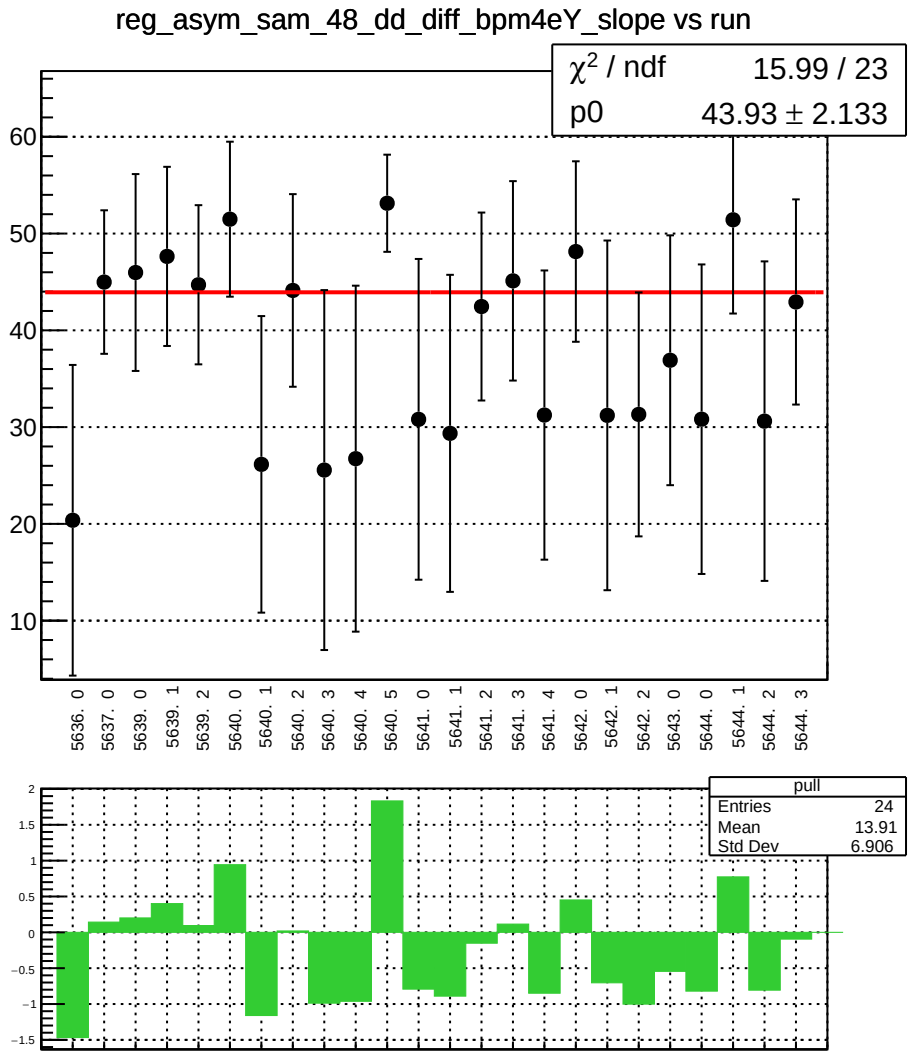

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 3.508 / 23
p0 −1.639 ± 0.1184
−0.5
−1
−1.5
−2
−2.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 109.1
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 24
Mean −0.008879
Std Dev 0.3822
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

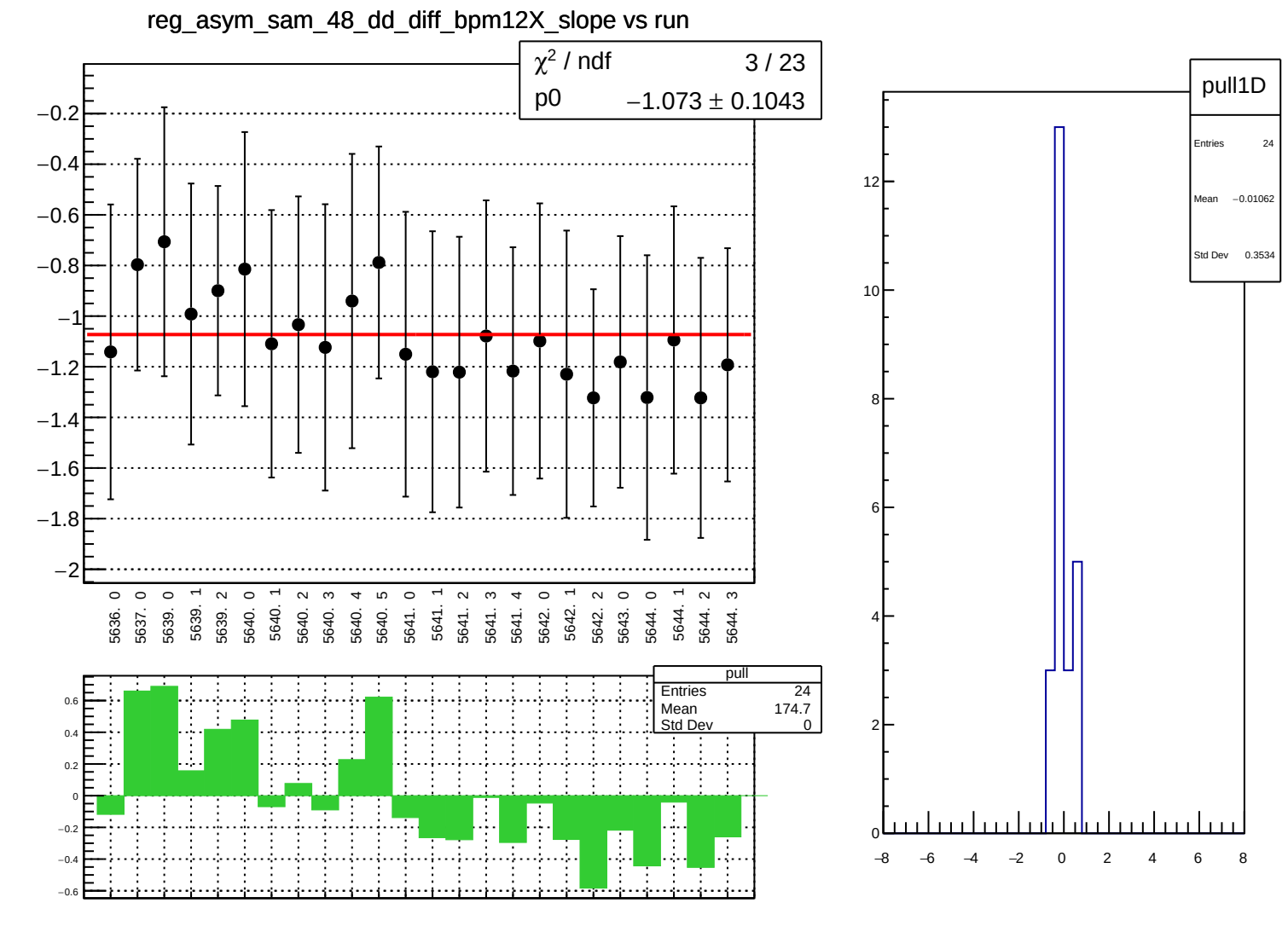

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 1.691 / 23
p0 −32.85 ± 2.956
−10
−20
−30
−40
−50
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 80.25
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

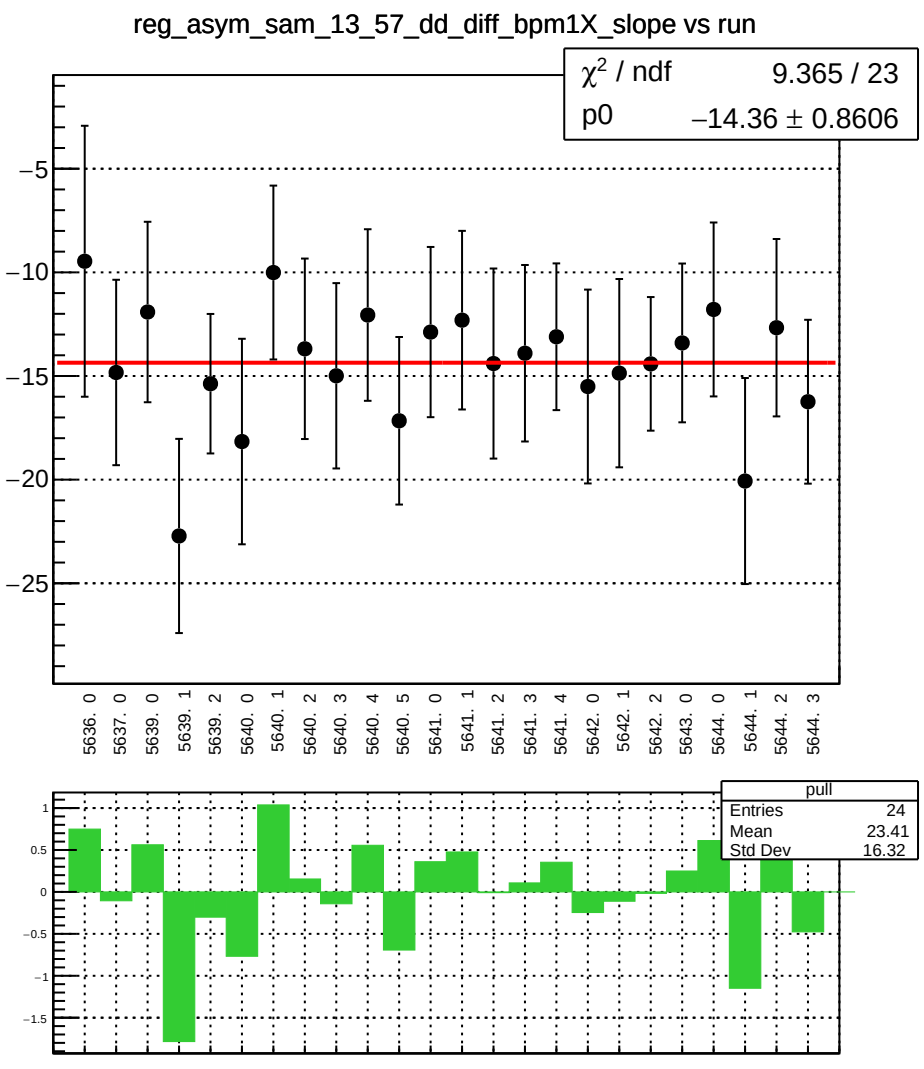

pull1D
Entries 24
Mean −0.01264
Std Dev 0.2652
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

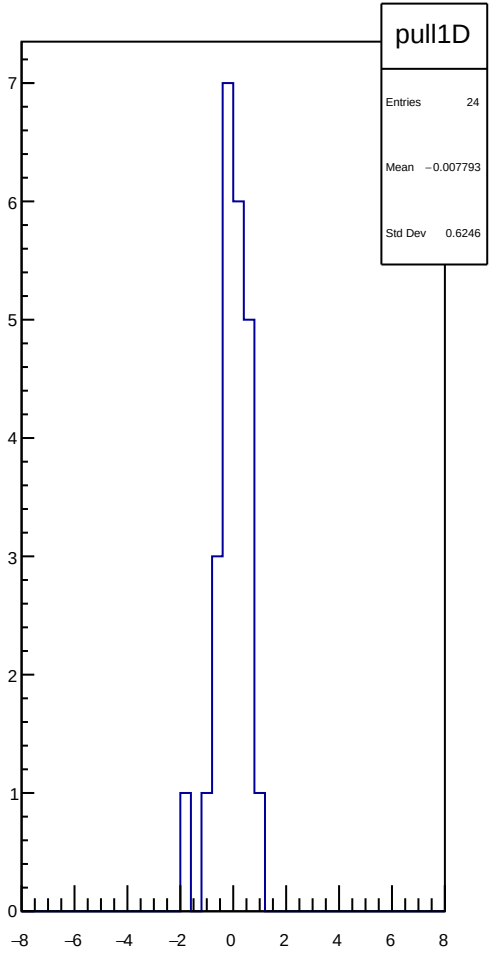

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.98 / 23
p0 34.83 ± 1.679
65
60
55
50
45
40
35
30
25
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 15.83
Std Dev 6.246
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.273
Std Dev 0.7689
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

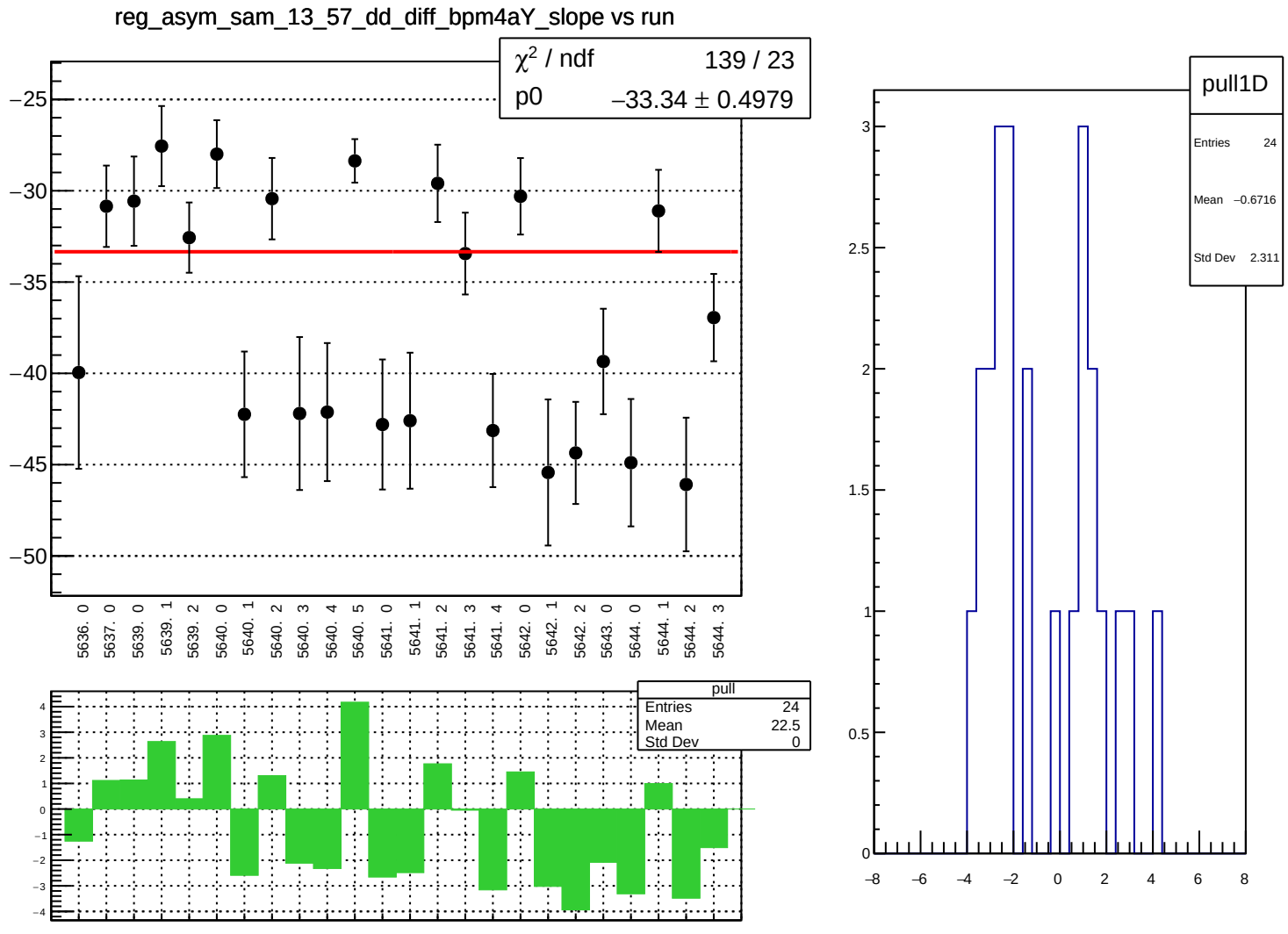

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.513 / 23
p0 −24.94 ± 2.565
0
−5
−10
−15
−20
−25
−30
−35
−40
−45
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 70.83
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 24
Mean 0.009474
Std Dev 0.2509
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

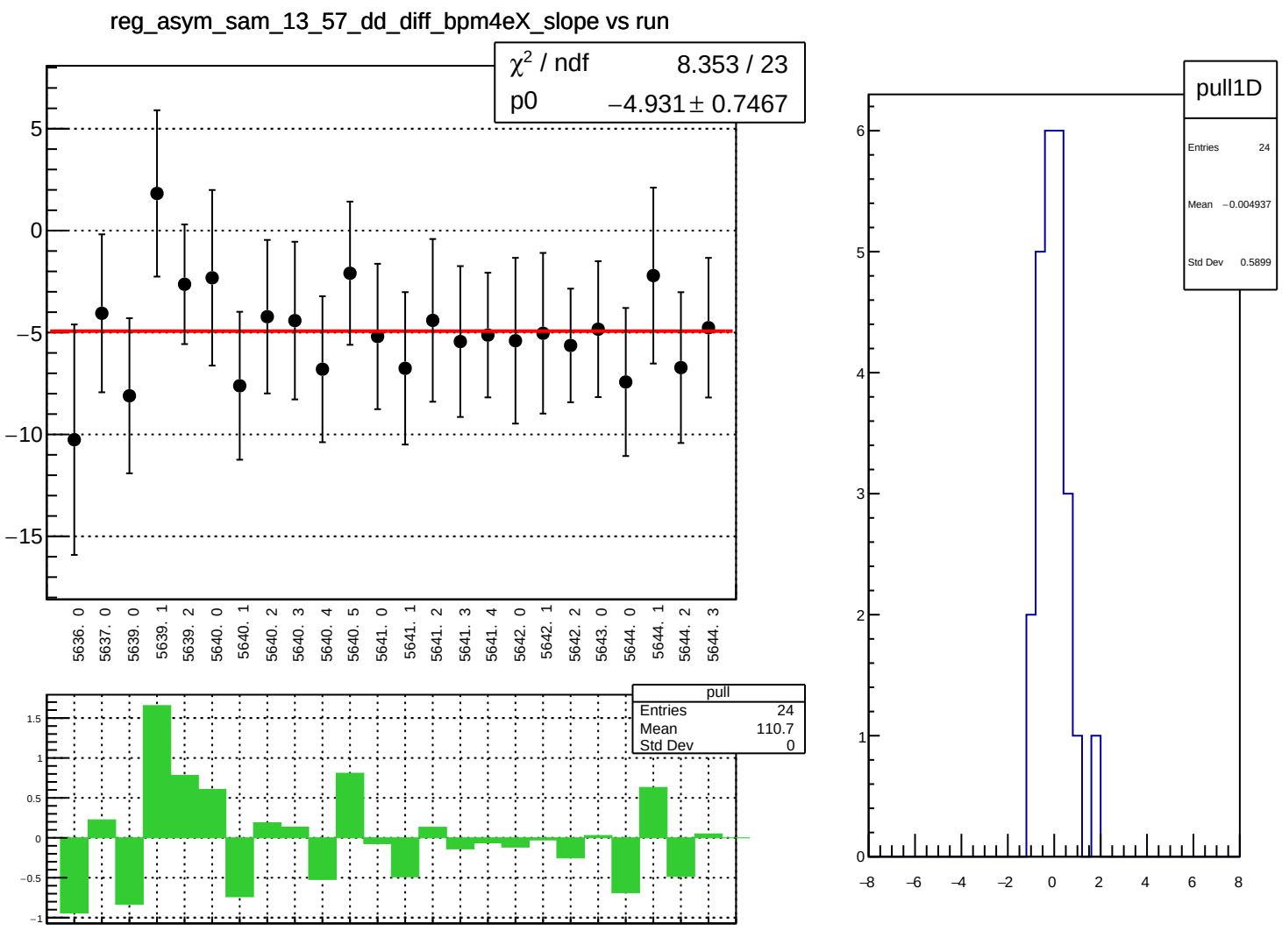

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.99 / 23
p0 43.93 ± 2.133
60
50
40
30
20
10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 13.91
Std Dev 6.906
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.2606
Std Dev 0.7734
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

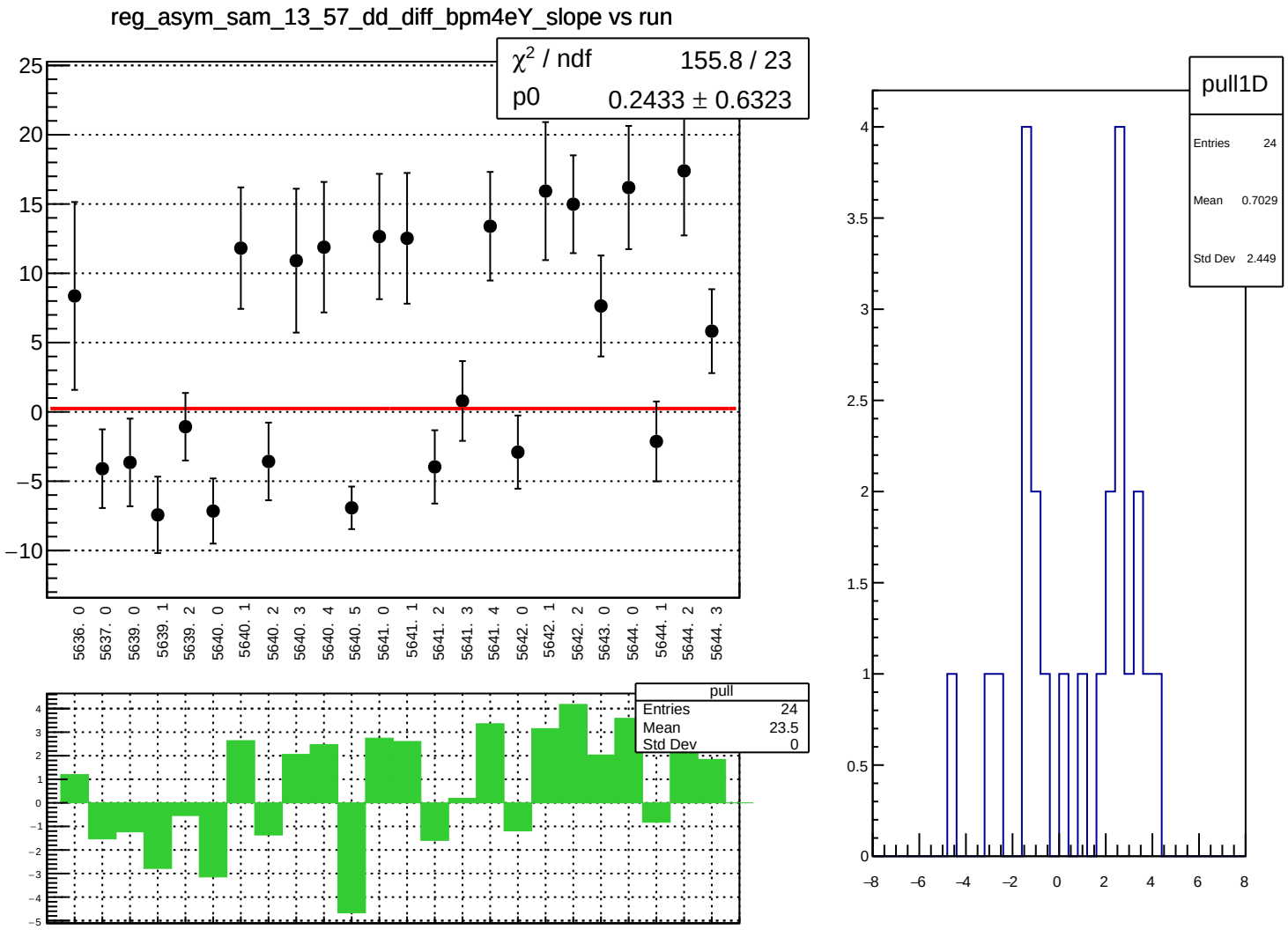

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 3 / 23
p0 −1.073 ± 0.1043
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
−1.6
−1.8
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 174.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 24
Mean −0.01062
Std Dev 0.3534
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

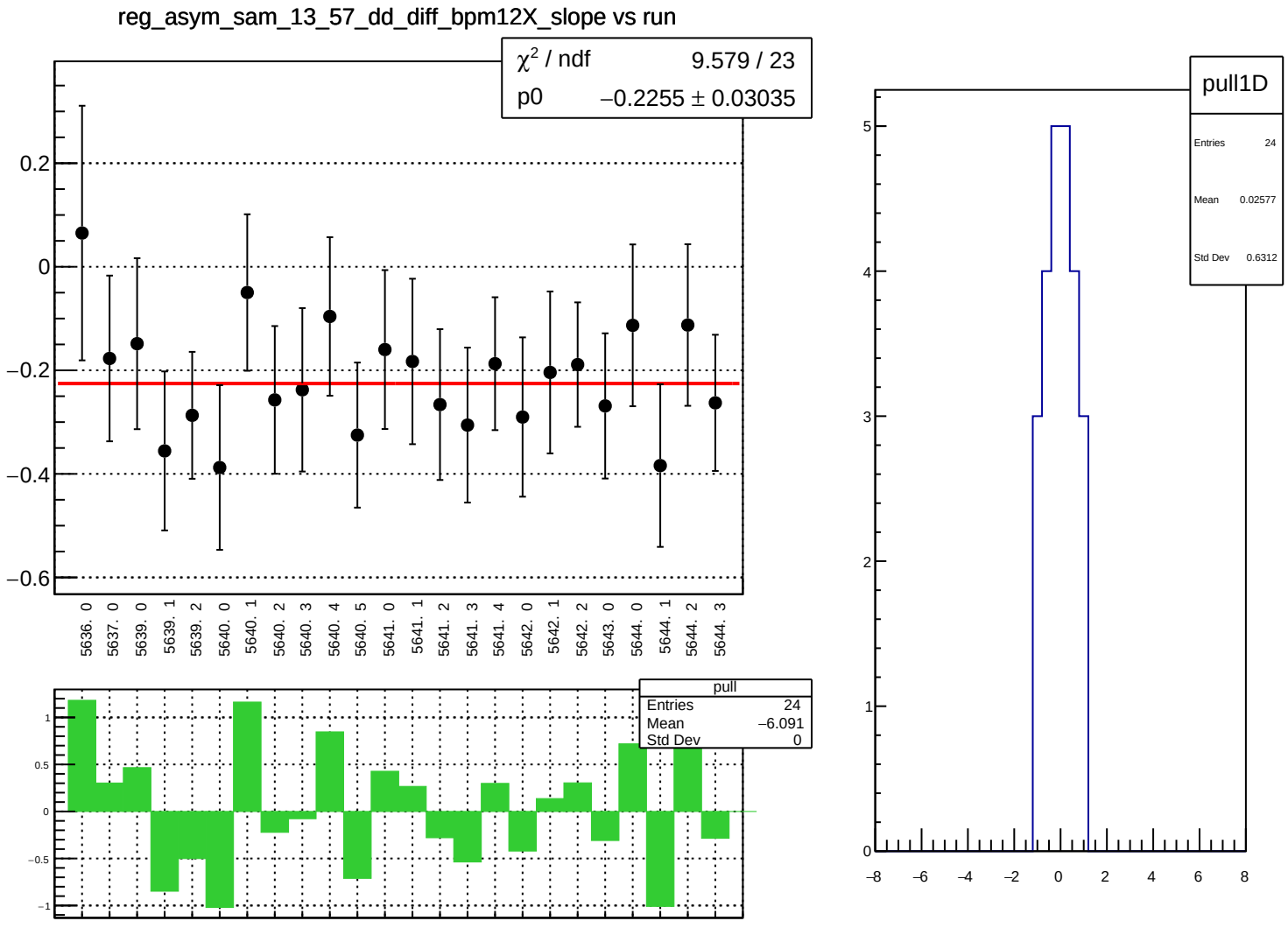

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 9.365 / 23
p0 −14.36 ± 0.8606
−5
−10
−15
−20
−25
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 23.41
Std Dev 16.32
1
0.5
0
−0.5
−1
−1.5

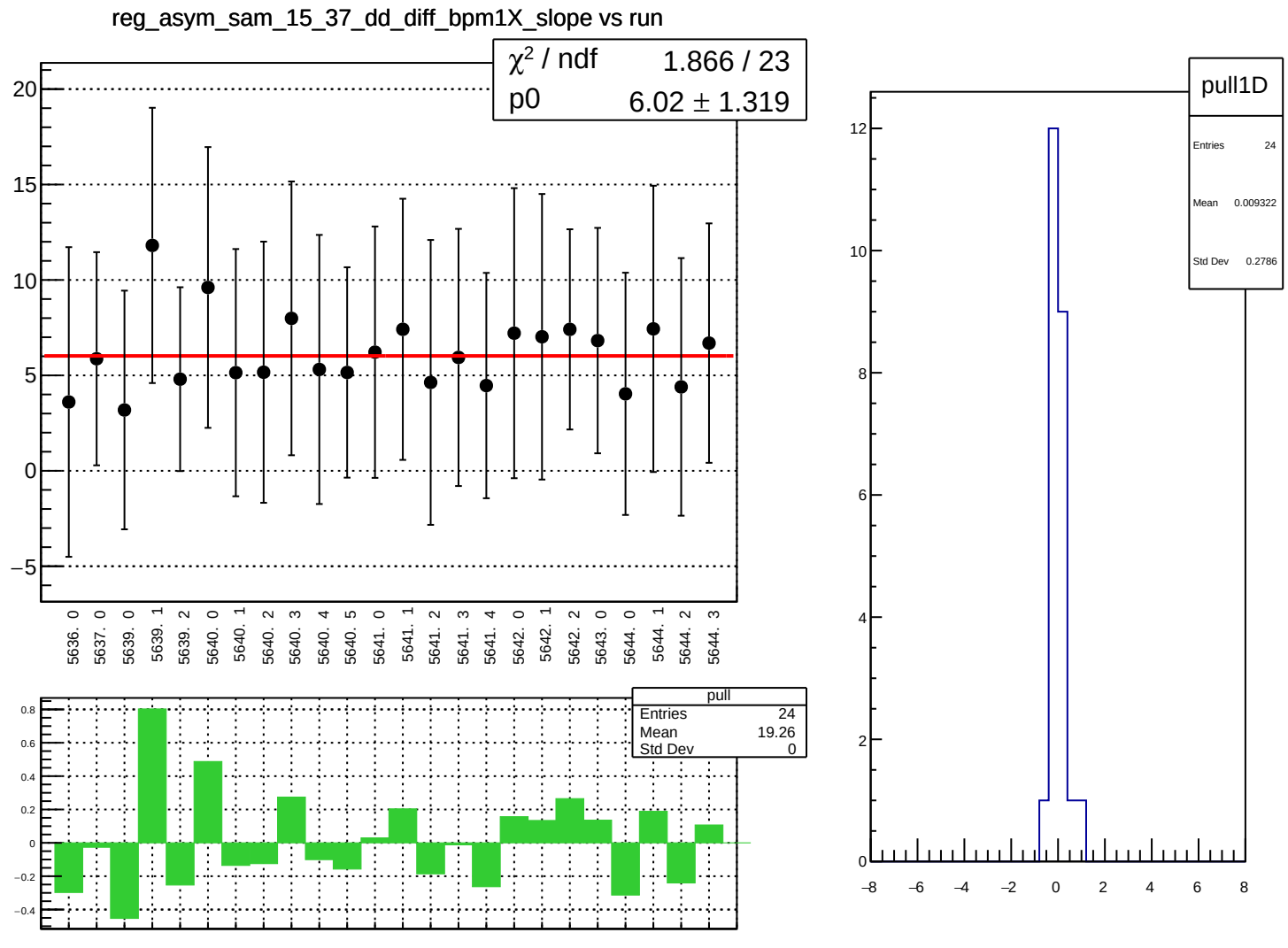

pull1D
Entries 24
Mean −0.007793
Std Dev 0.6246
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

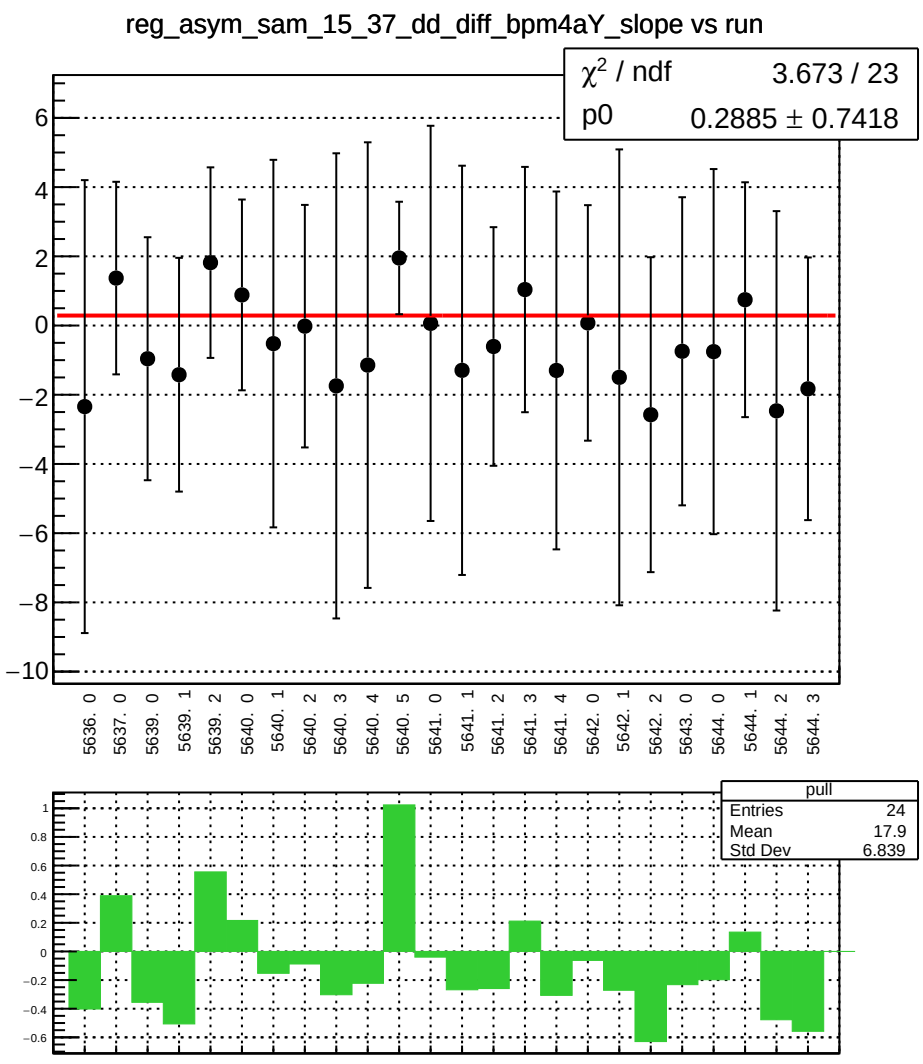

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 139 / 23
p0 −33.34 ± 0.4979
−25
−30
−35
−40
−45
−50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 22.5
Std Dev 0
pull1D
Entries 24
Mean −0.6716
Std Dev 2.311

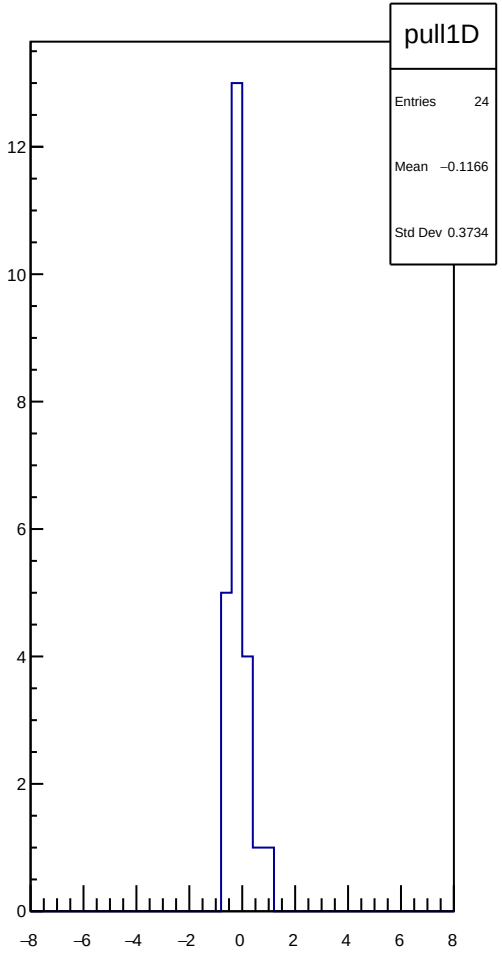

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.353 / 23
p0 −4.931 ± 0.7467
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 110.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.004937
Std Dev 0.5899
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

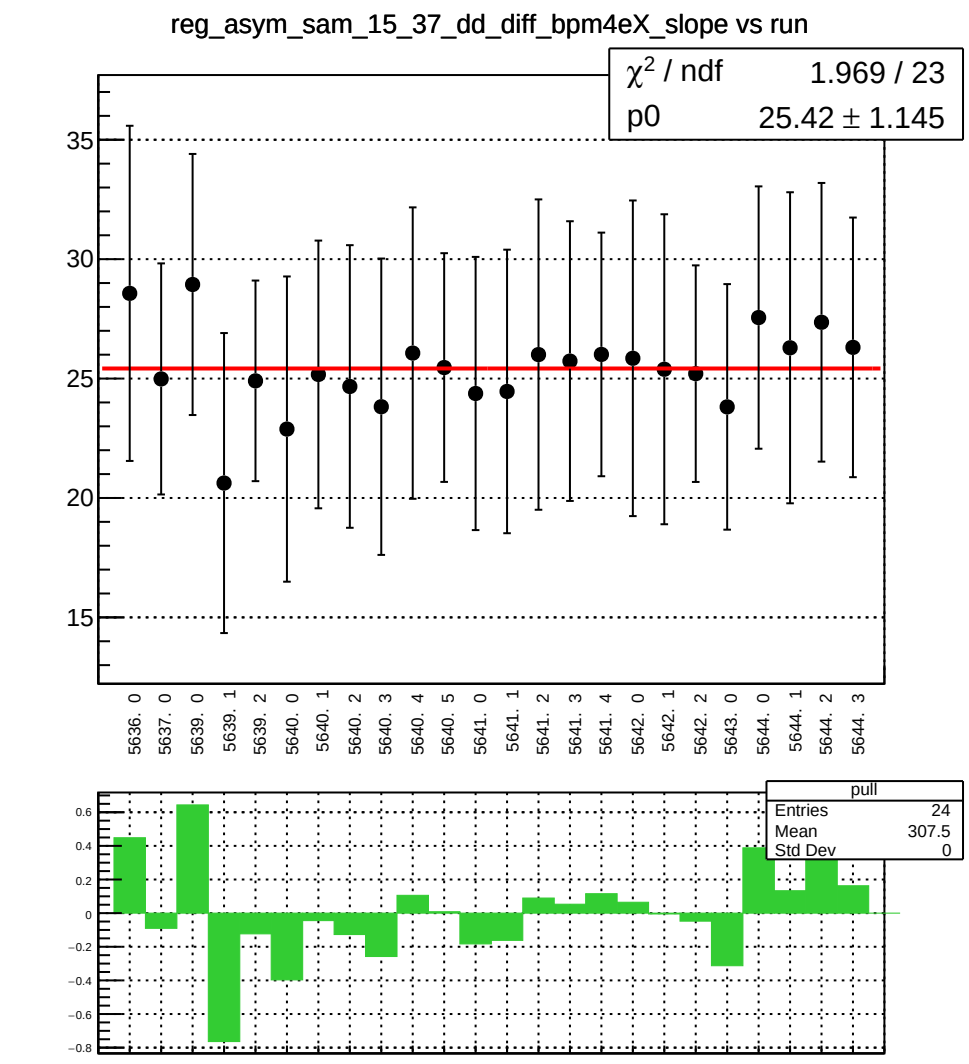

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 155.8 / 23
p0 0.2433 ± 0.6323
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 23.5
Std Dev 0
pull1D
Entries 24
Mean 0.7029
Std Dev 2.449

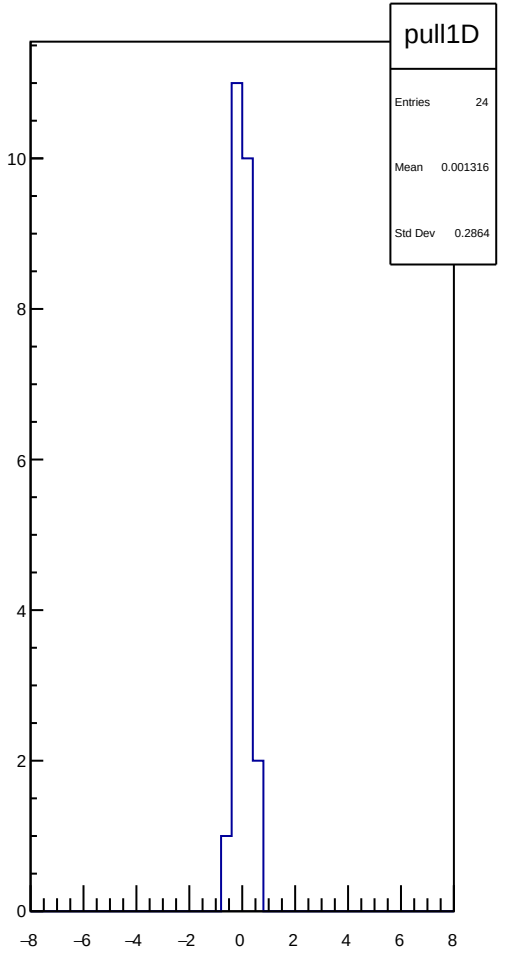

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 9.579 / 23
p0 −0.2255 ± 0.03035
0.2
0
−0.2
−0.4
−0.6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −6.091
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.02577
Std Dev 0.6312
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

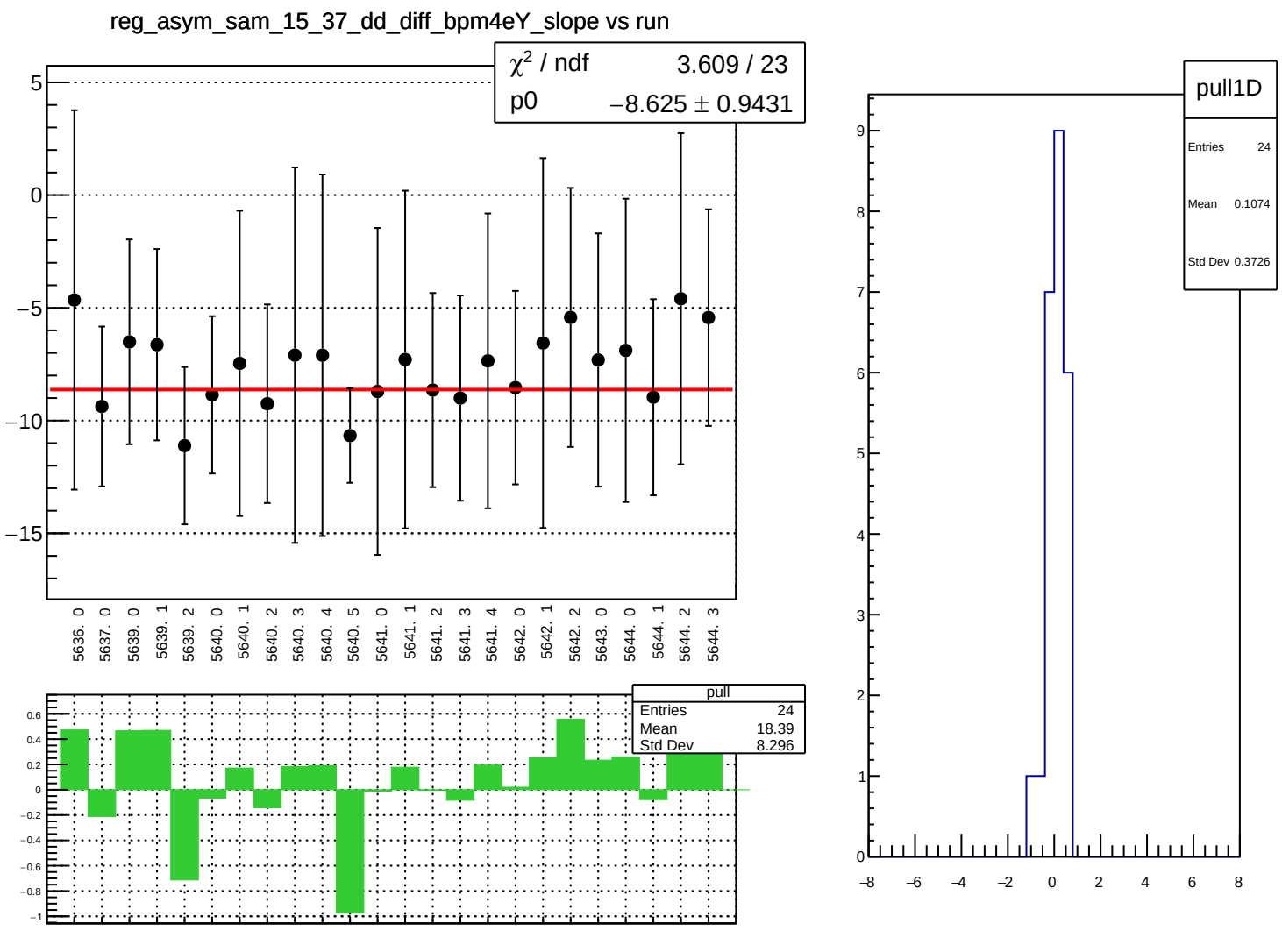

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 1.866 / 23
p0 6.02 ± 1.319
20
15
10
5
0
−5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 19.26
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 24
Mean 0.009322
Std Dev 0.2786
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

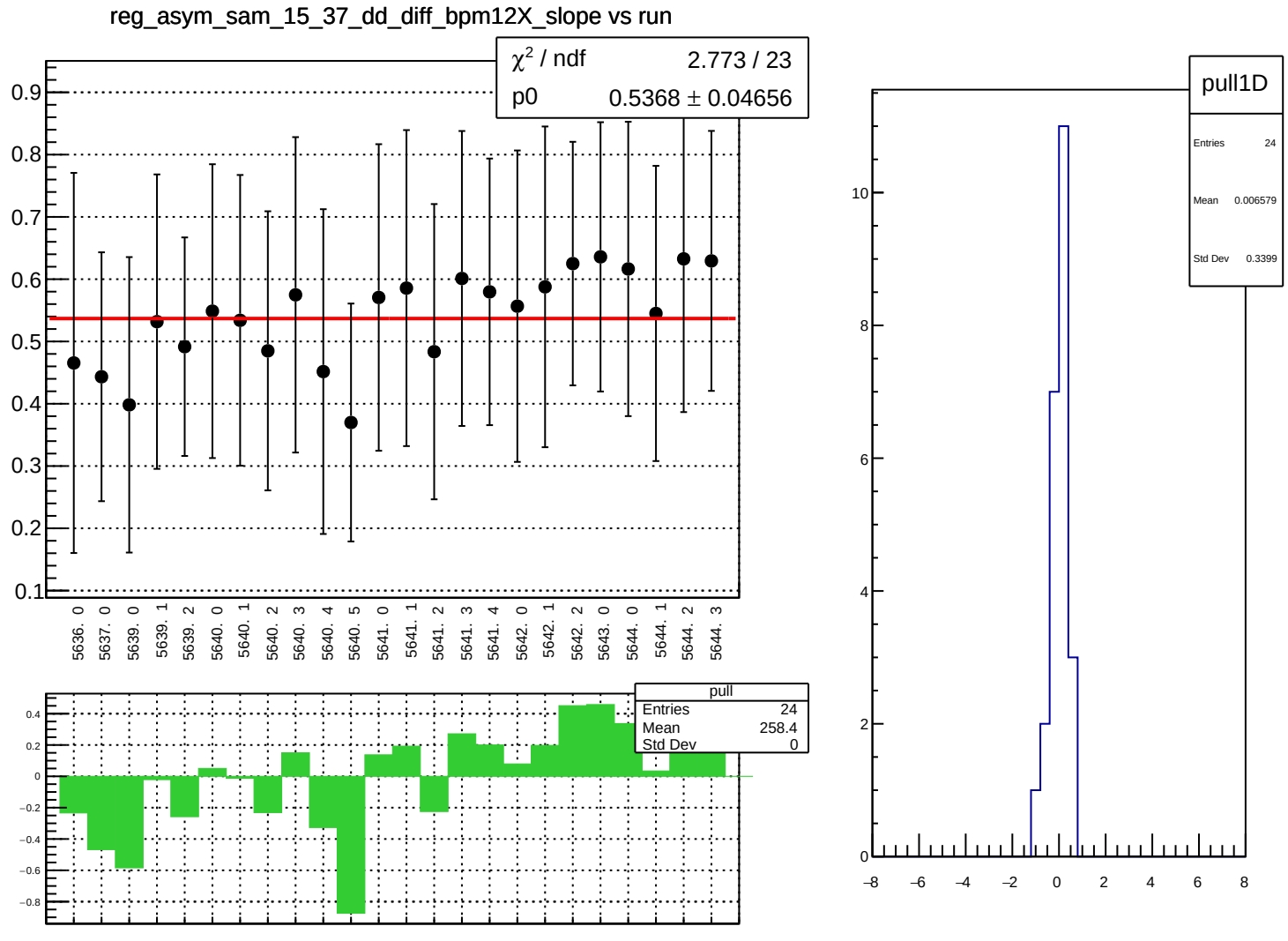

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.673 / 23
p0 0.2885 ± 0.7418
6
4
2
0
−2
−4
−6
−8
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 17.9
Std Dev 6.839
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

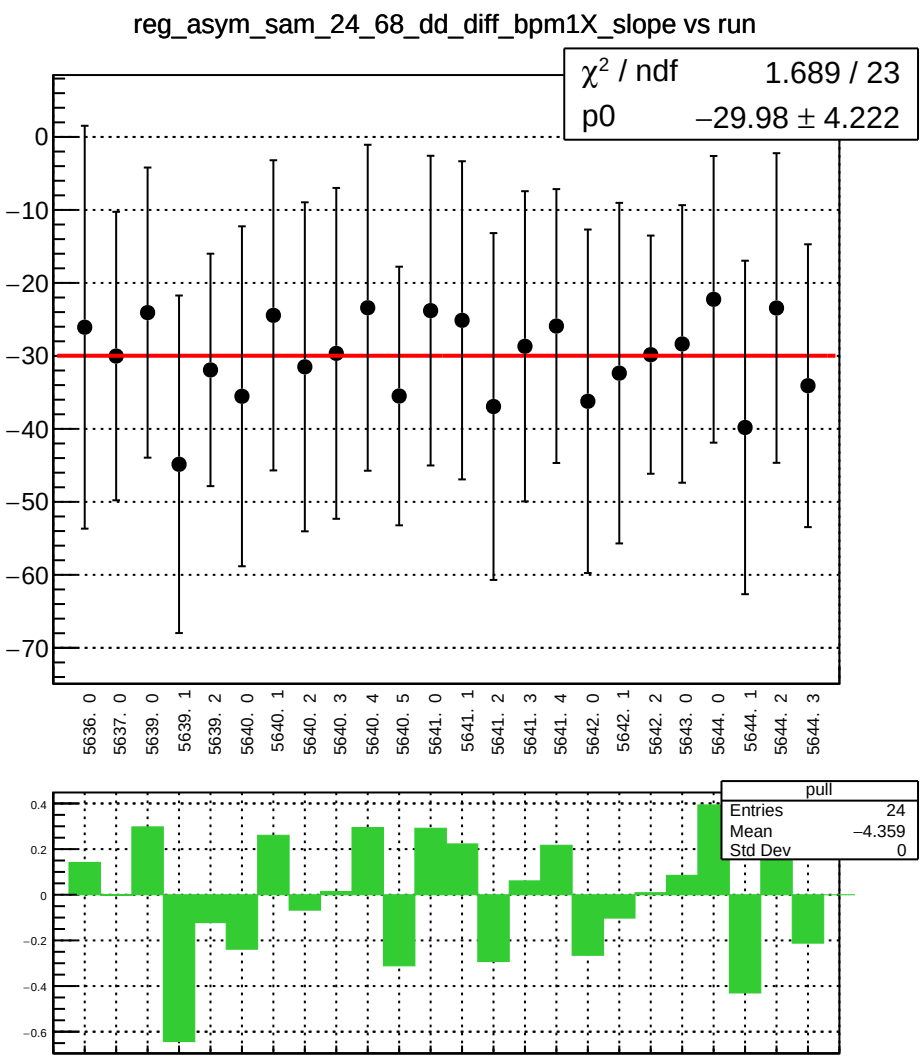

pull1D
Entries 24
Mean −0.1166
Std Dev 0.3734
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

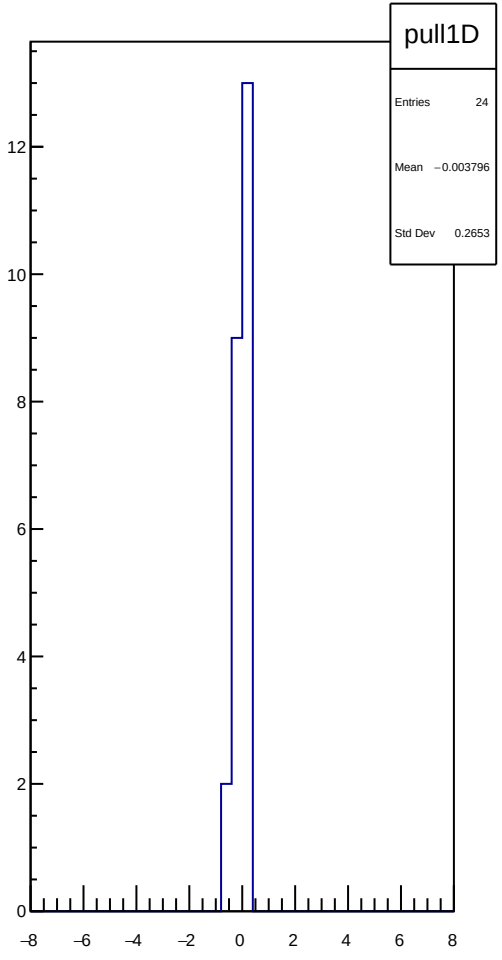

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.969 / 23
p0 25.42 ± 1.145
35
30
25
20
15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 307.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

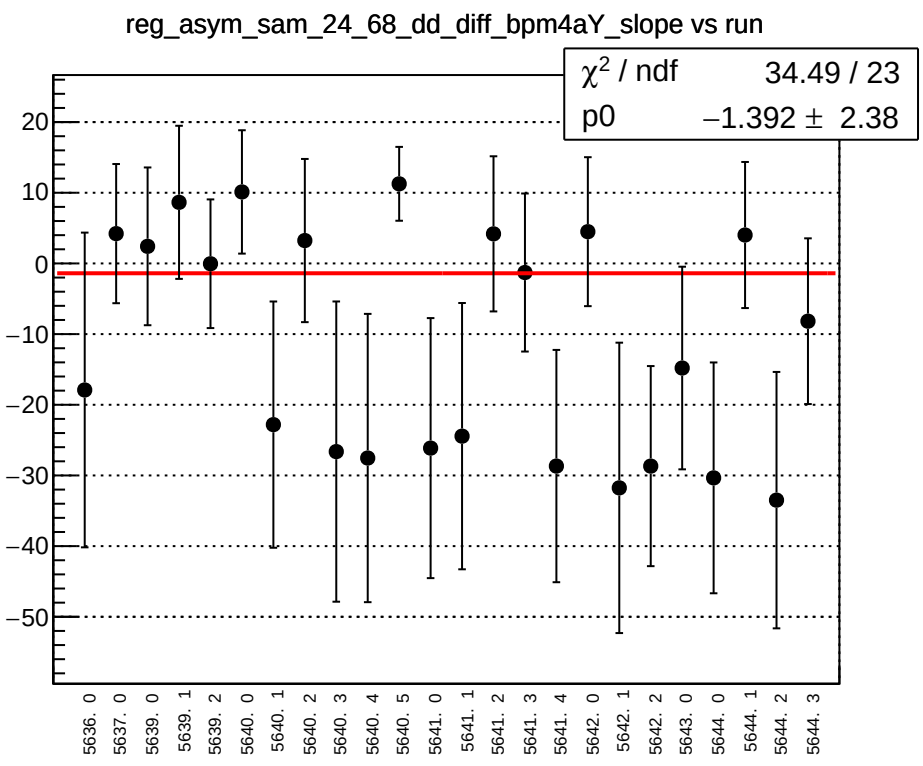

pull1D
Entries 24
Mean 0.001316
Std Dev 0.2864
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

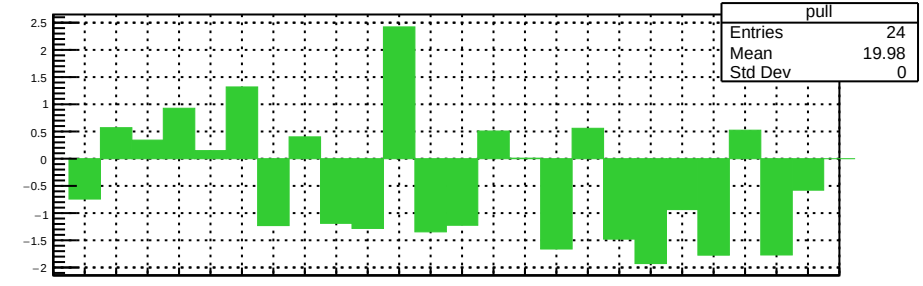

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.609 / 23
p0 −8.625 ± 0.9431
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 18.39
Std Dev 8.296
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 24
Mean 0.1074
Std Dev 0.3726
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

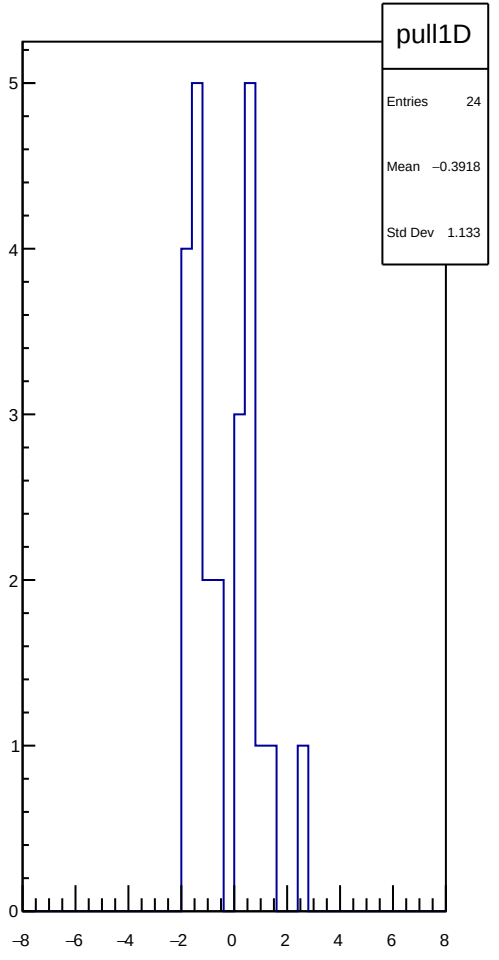

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 2.773 / 23
p0 0.5368 ± 0.04656
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 258.4
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean 0.006579
Std Dev 0.3399
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

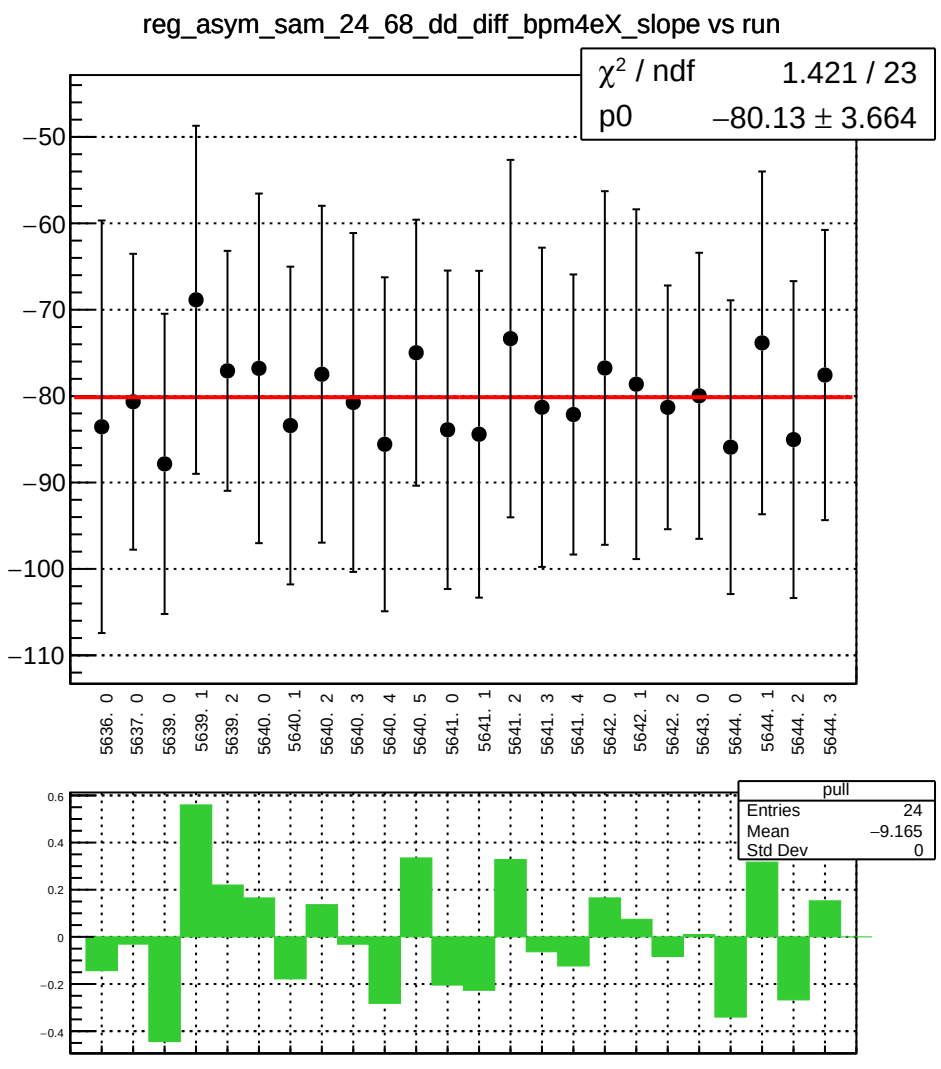

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 1.689 / 23
p0 −29.98 ± 4.222
0
−10
−20
−30
−40
−50
−60
−70
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −4.359
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

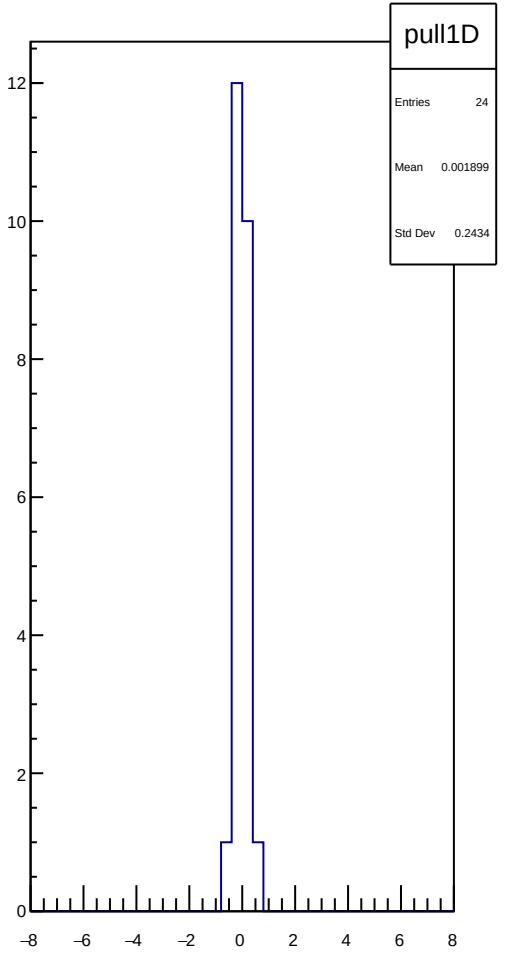

pull1D
Entries 24
Mean −0.003796
Std Dev 0.2653
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

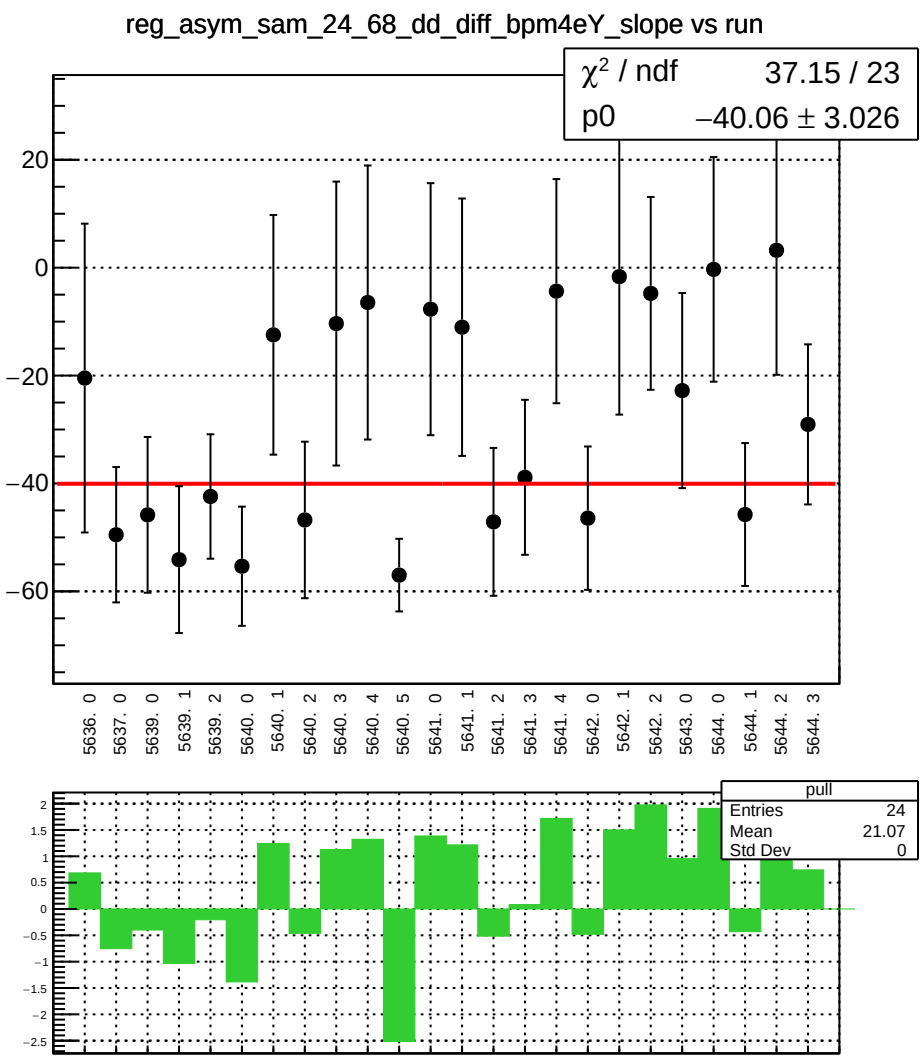

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 34.49 / 23
p0 −1.392 ± 2.38
20
10
0
−10
−20
−30
−40
−50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

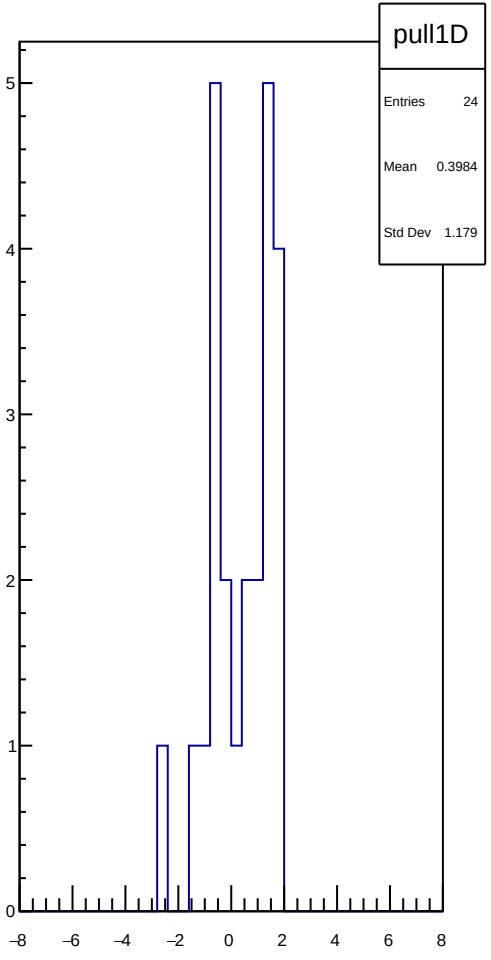

pull
Entries 24
Mean 19.98
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

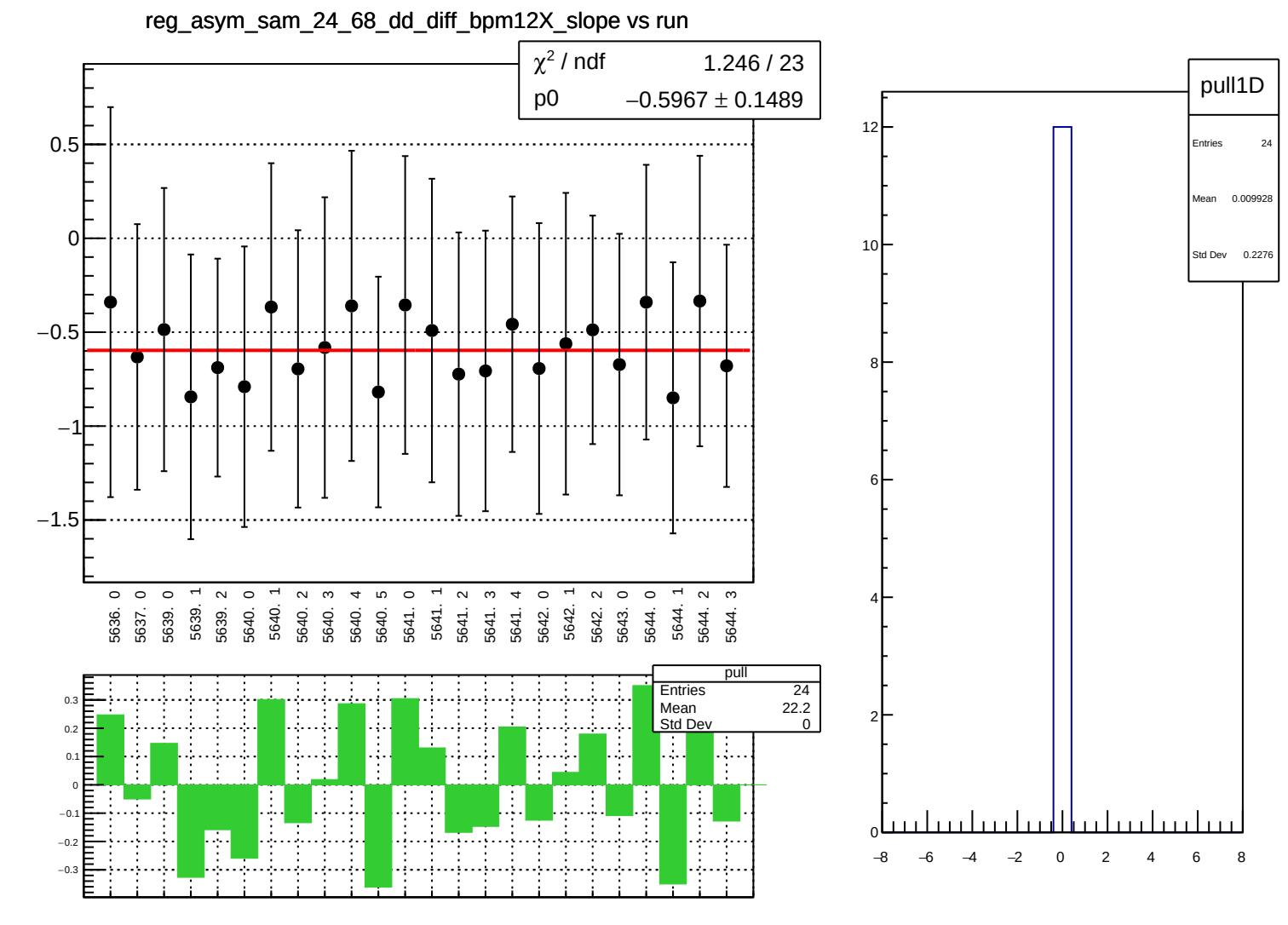

pull1D
Entries 24
Mean −0.3918
Std Dev 1.133
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

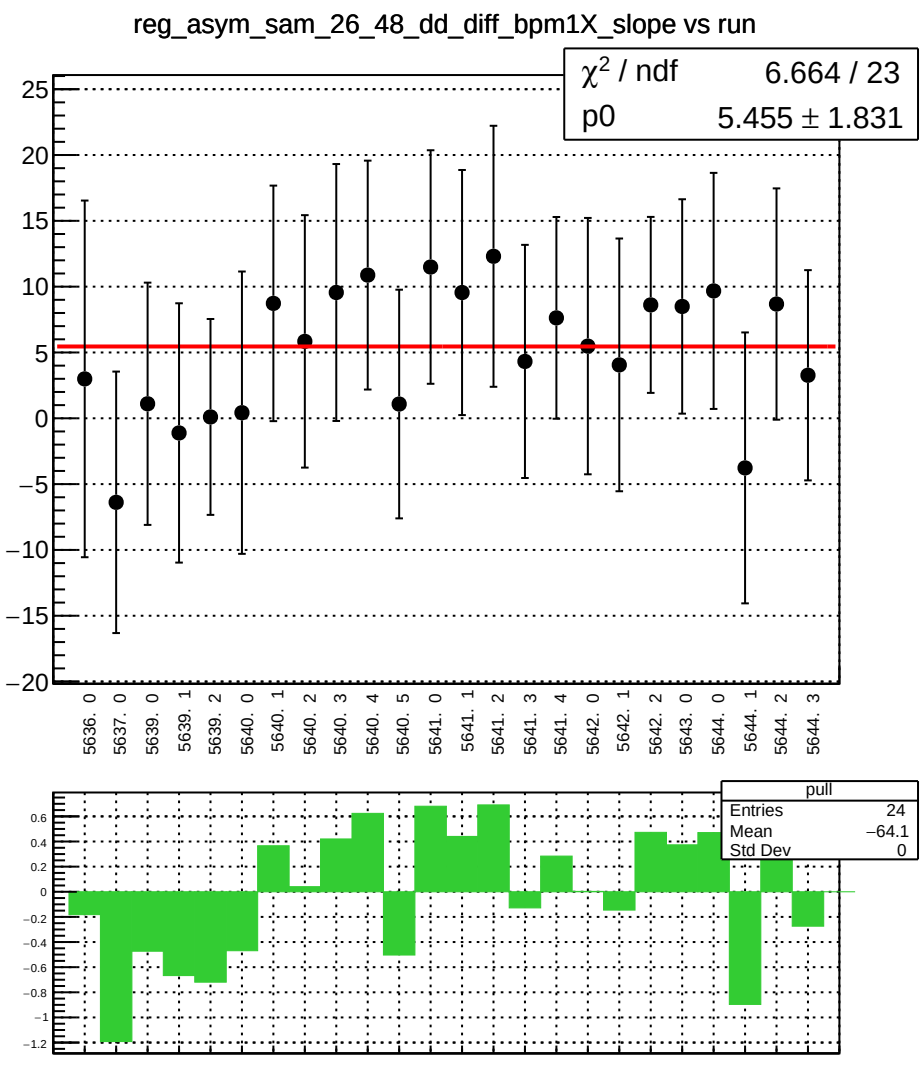

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.421 / 23
p0 −80.13 ± 3.664
−50
−60
−70
−80
−90
−100
−110
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −9.165
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

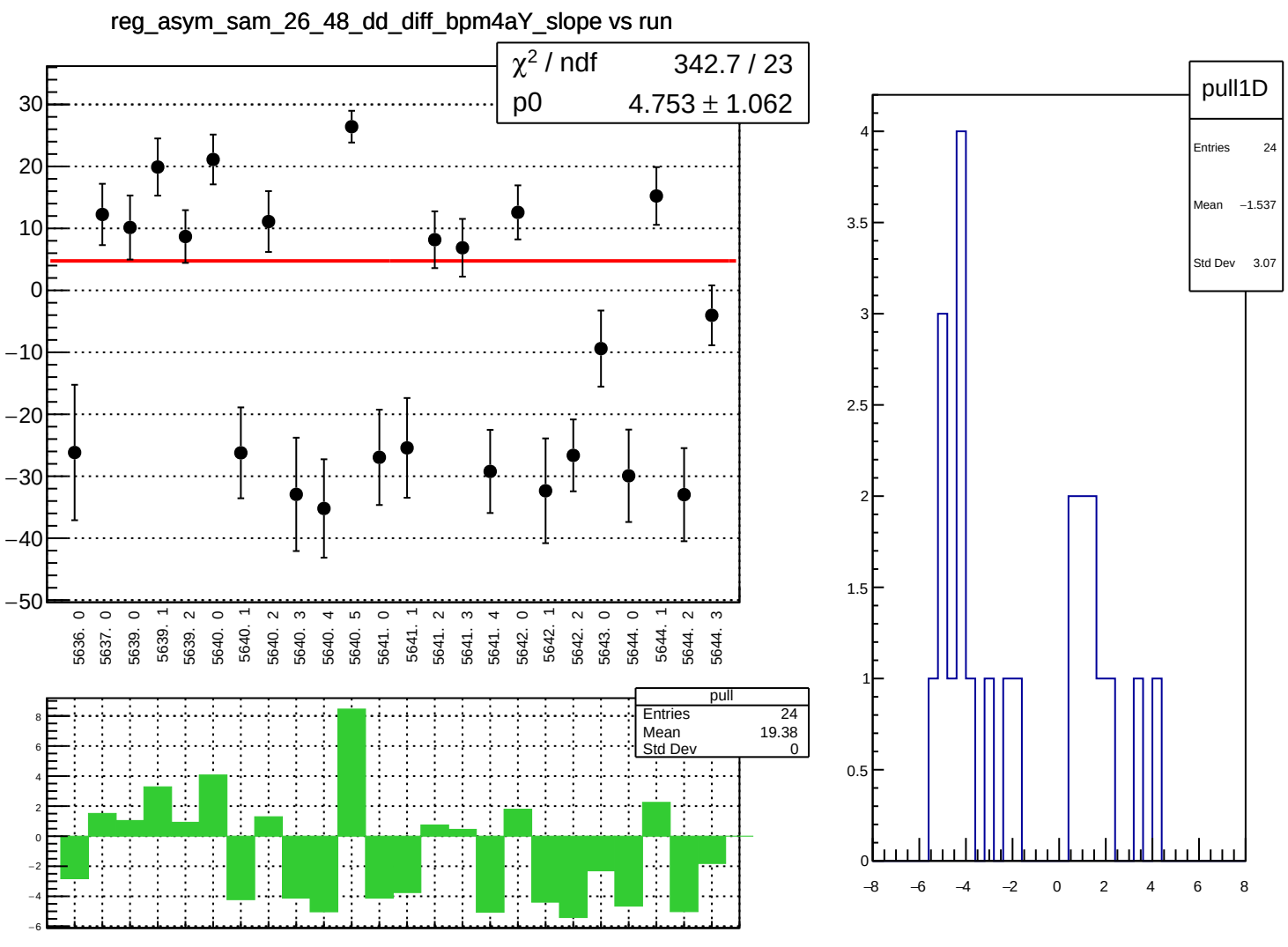

pull1D
Entries 24
Mean 0.001899
Std Dev 0.2434
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

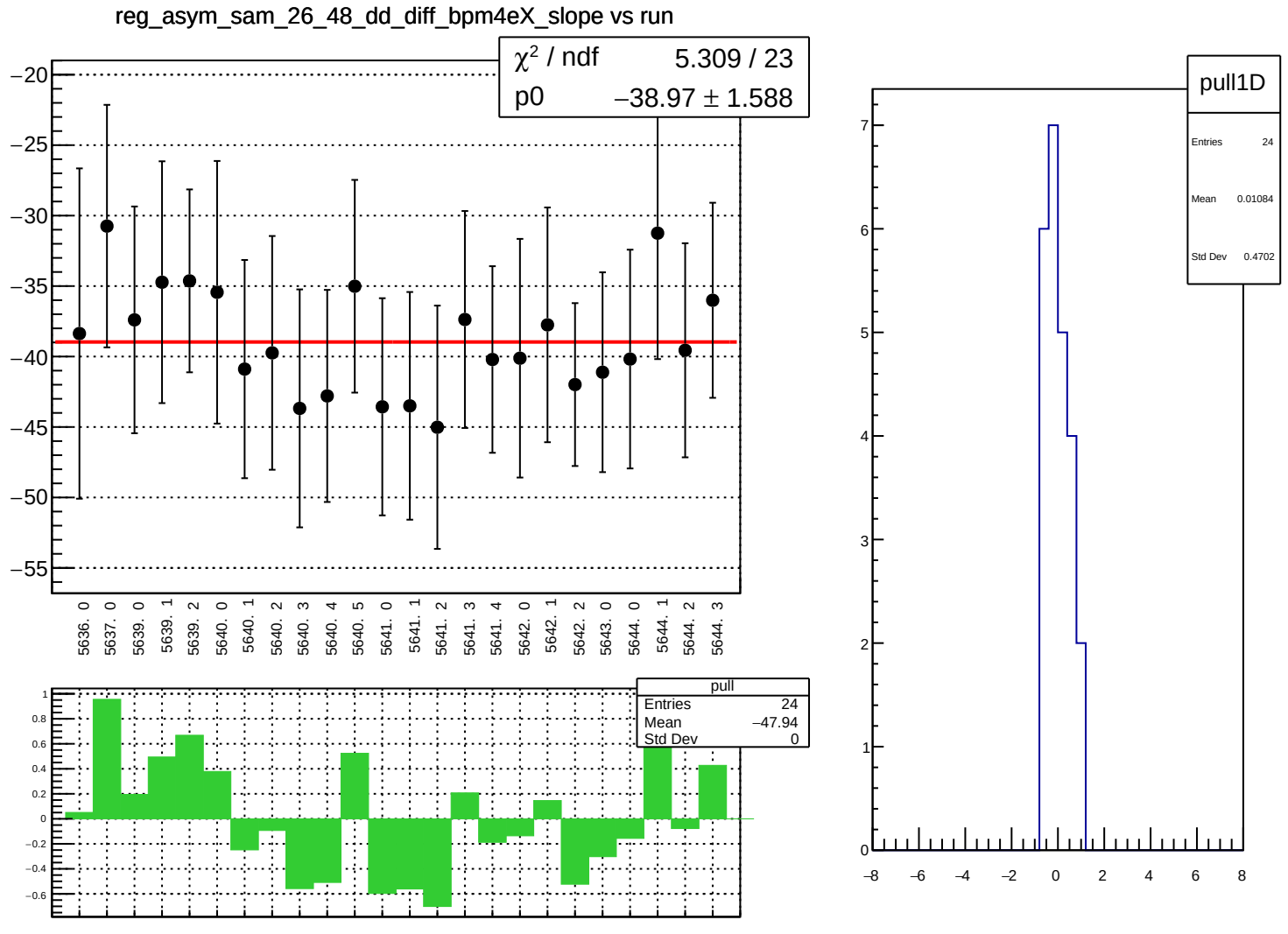

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 37.15 / 23
p0 −40.06 ± 3.026
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 21.07
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

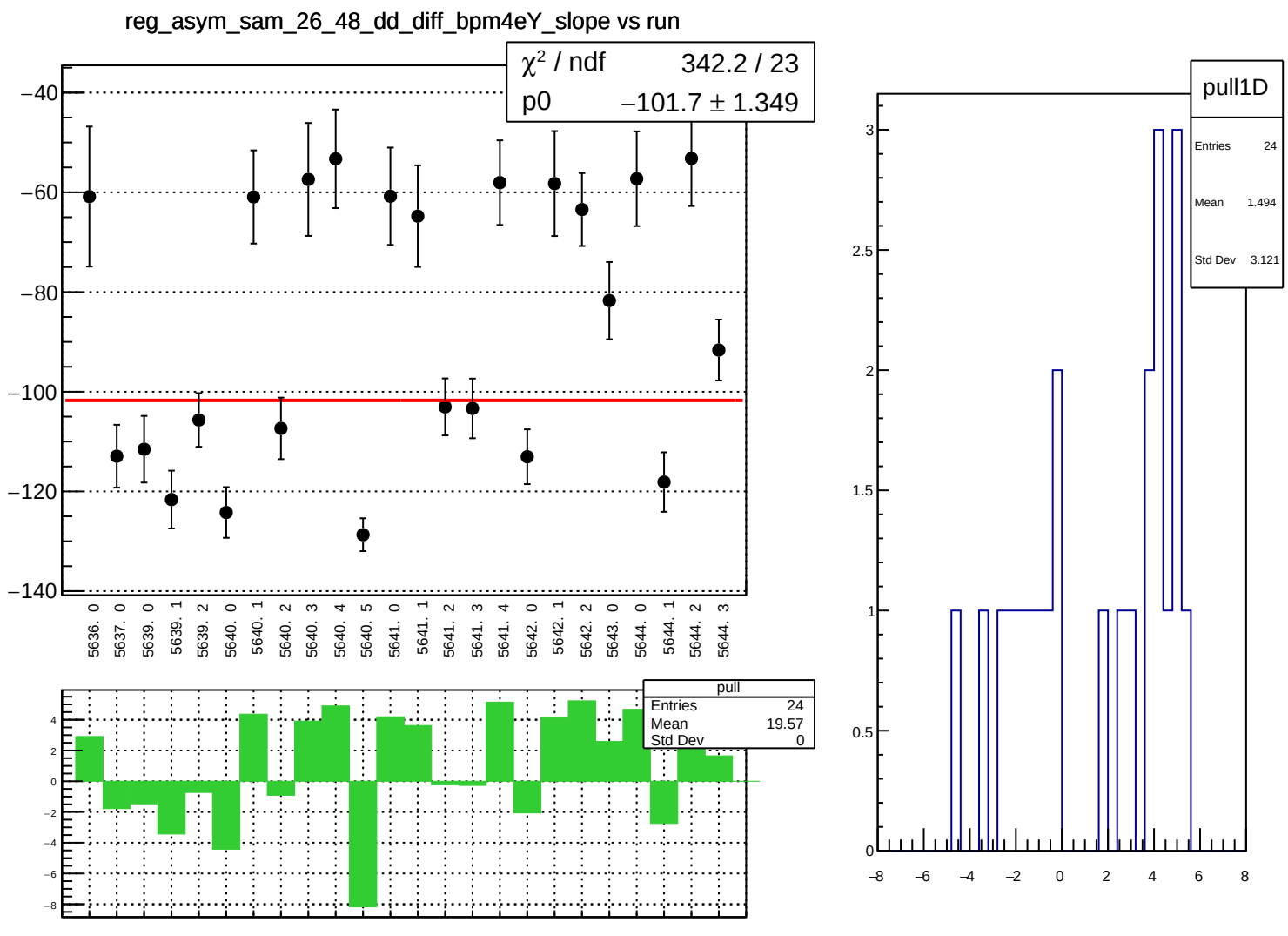

pull1D
Entries 24
Mean 0.3984
Std Dev 1.179
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

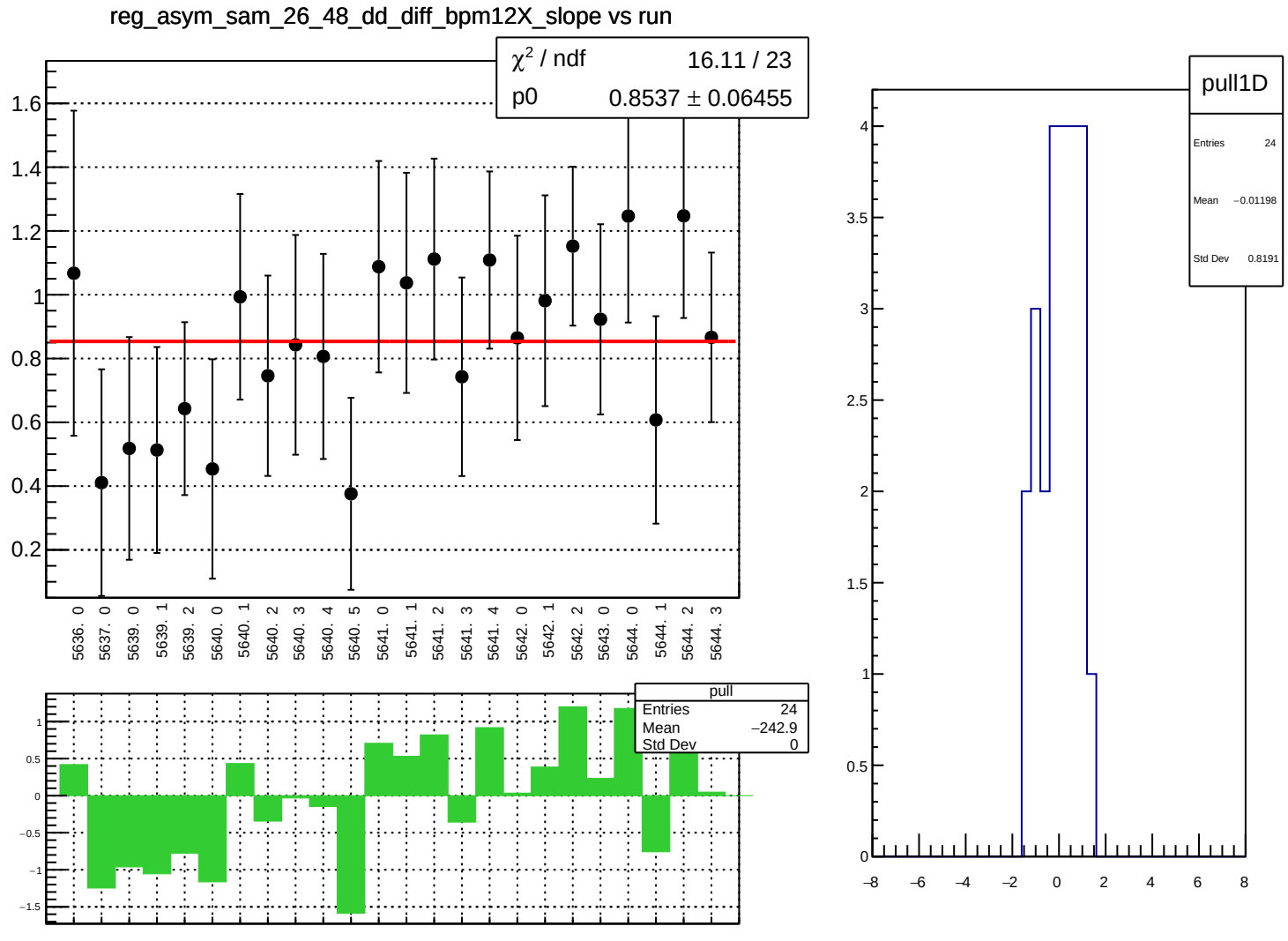

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 1.246 / 23
p0 −0.5967 ± 0.1489
0.5
0
−0.5
−1
−1.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 22.2
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 24
Mean 0.009928
Std Dev 0.2276
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

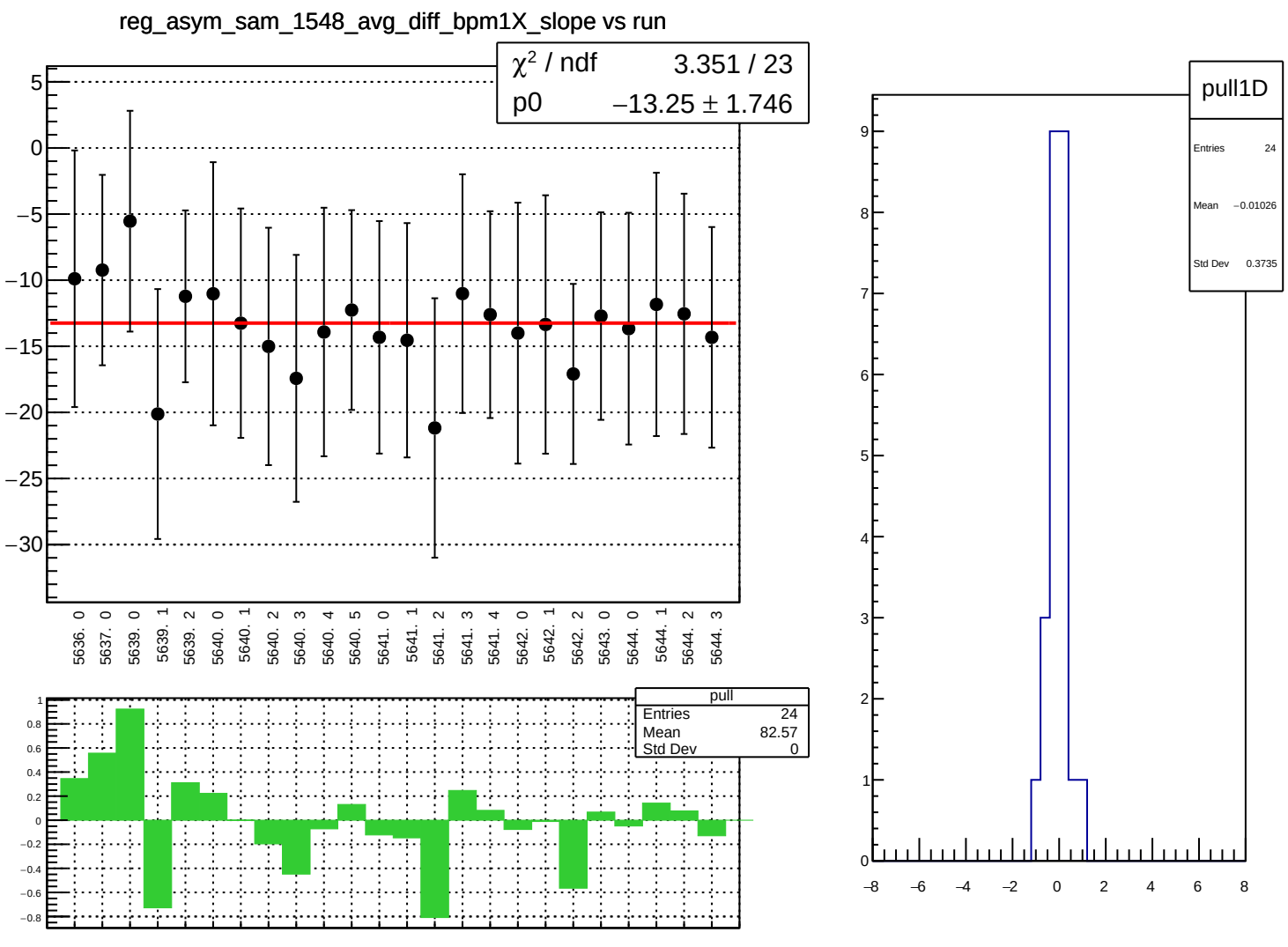

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 6.664 / 23
p0 5.455 ± 1.831
25
20
15
10
5
0
−5
−10
−15
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −64.1
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 24
Mean −0.01731
Std Dev 0.5267
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

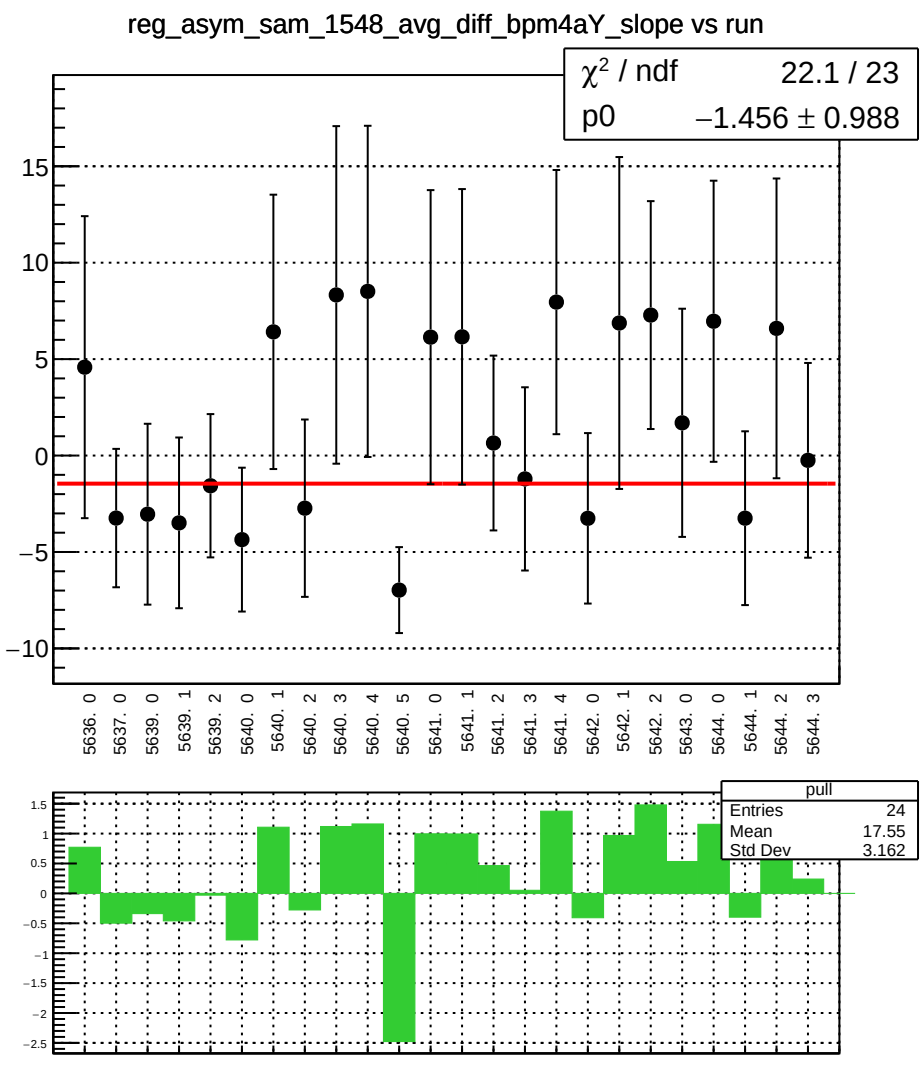

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 342.7 / 23
p0 4.753 ± 1.062
30
20
10
0
−10
−20
−30
−40
−50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 19.38
Std Dev 0
8
6
4
2
0
−2
−4
−6
pull1D
Entries 24
Mean −1.537
Std Dev 3.07
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

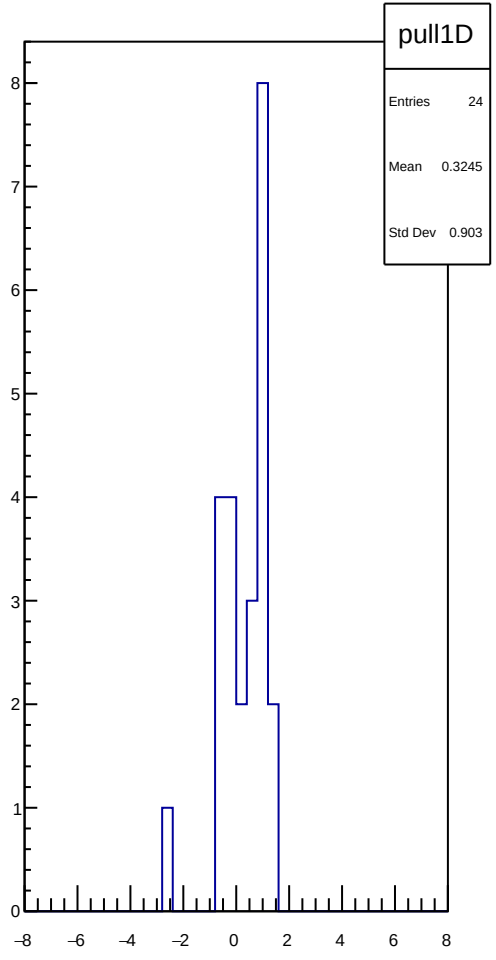

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.309 / 23
p0 −38.97 ± 1.588
−20
−25
−30
−35
−40
−45
−50
−55
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −47.94
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 24
Mean 0.01084
Std Dev 0.4702
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

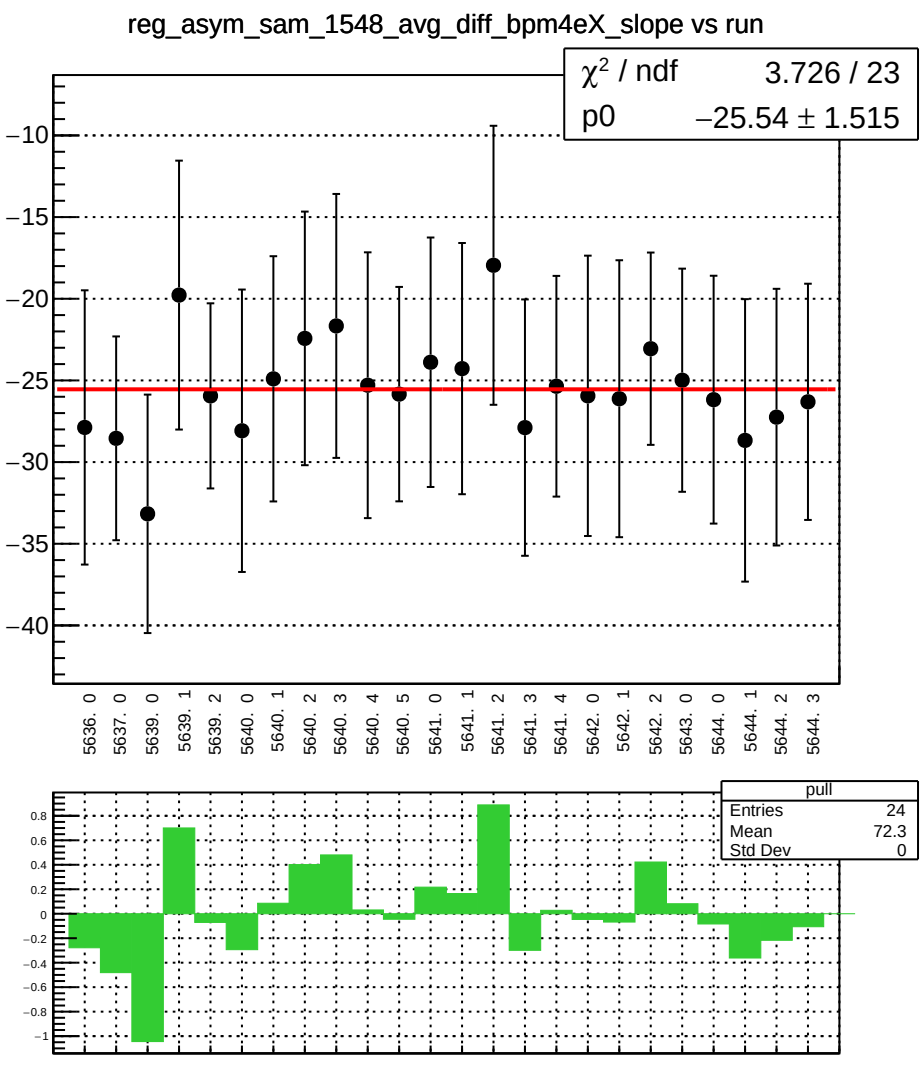

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 342.2 / 23
p0 −101.7 ± 1.349
−40
−60
−80
−100
−120
−140
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 19.57
Std Dev 0
pull1D
Entries 24
Mean 1.494
Std Dev 3.121

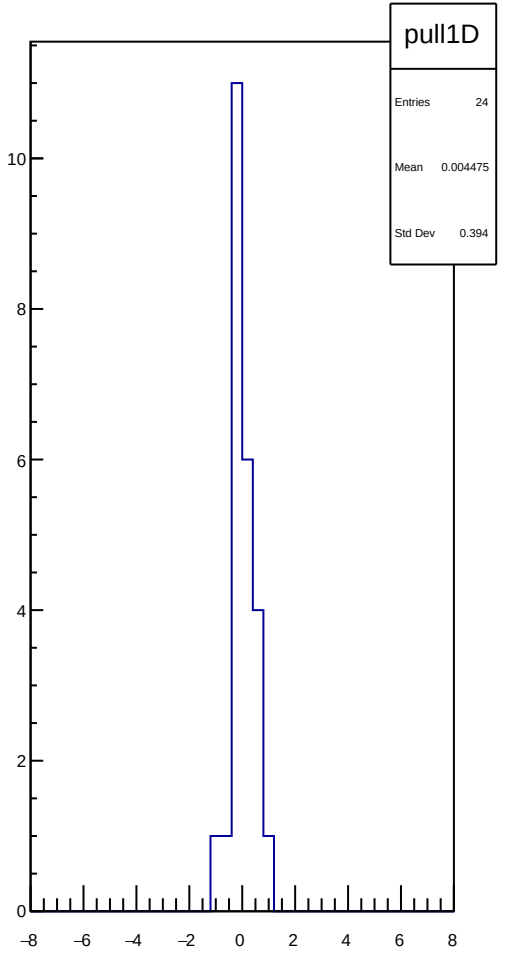

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 16.11 / 23
p0 0.8537 ± 0.06455
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −242.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.01198
Std Dev 0.8191
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

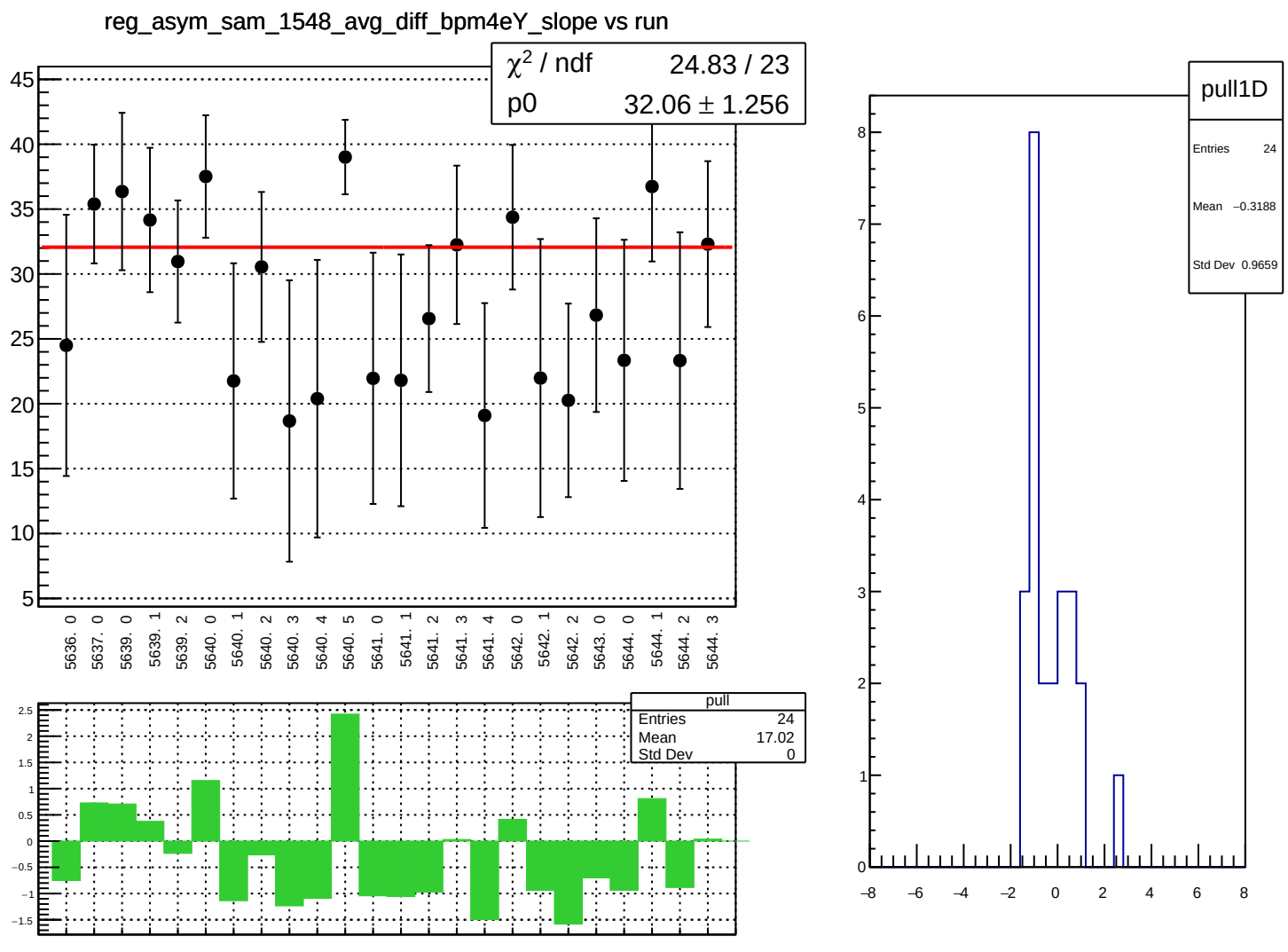

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 3.351 / 23
p0 −13.25 ± 1.746
5
0
−5
−10
−15
−20
−25
−30
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 82.57
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean −0.01026
Std Dev 0.3735
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

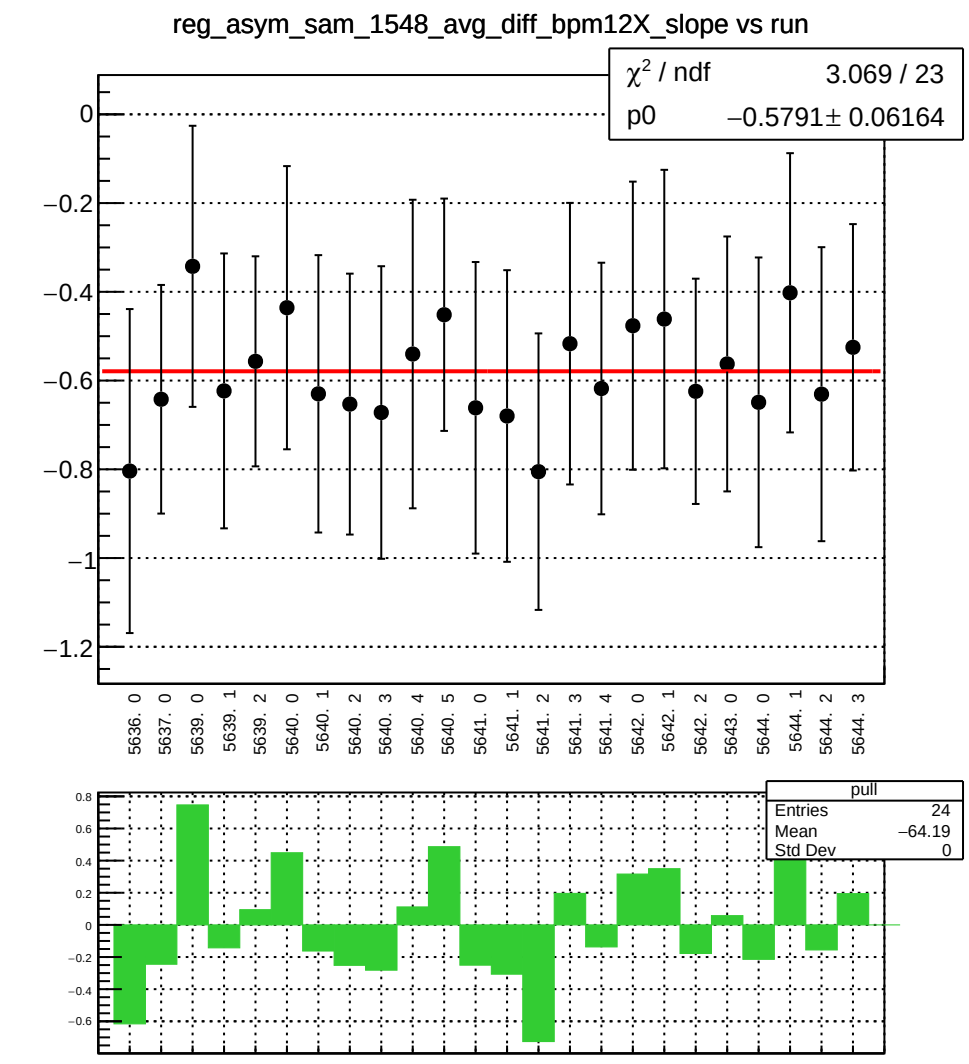

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.1 / 23
p0 −1.456 ± 0.988
15
10
5
0
−5
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 17.55
Std Dev 3.162
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

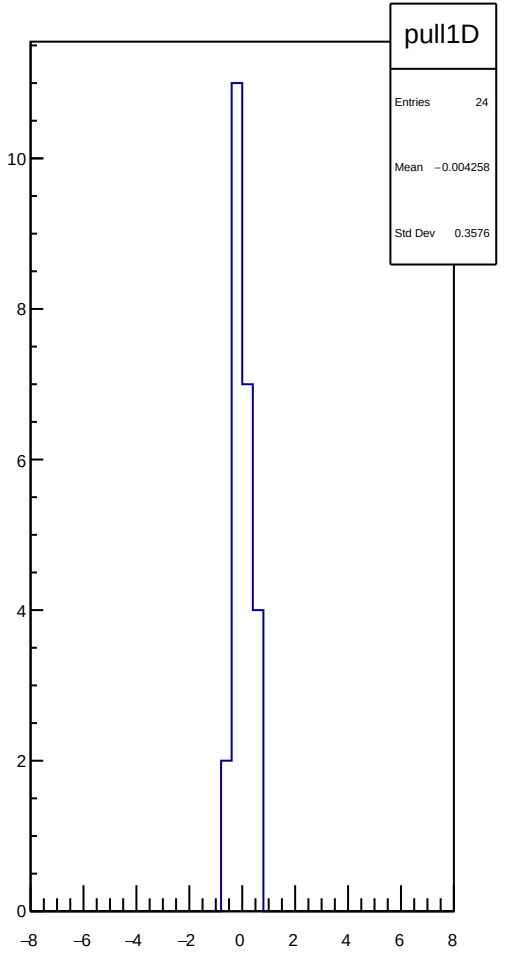

pull1D
Entries 24
Mean 0.3245
Std Dev 0.903
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

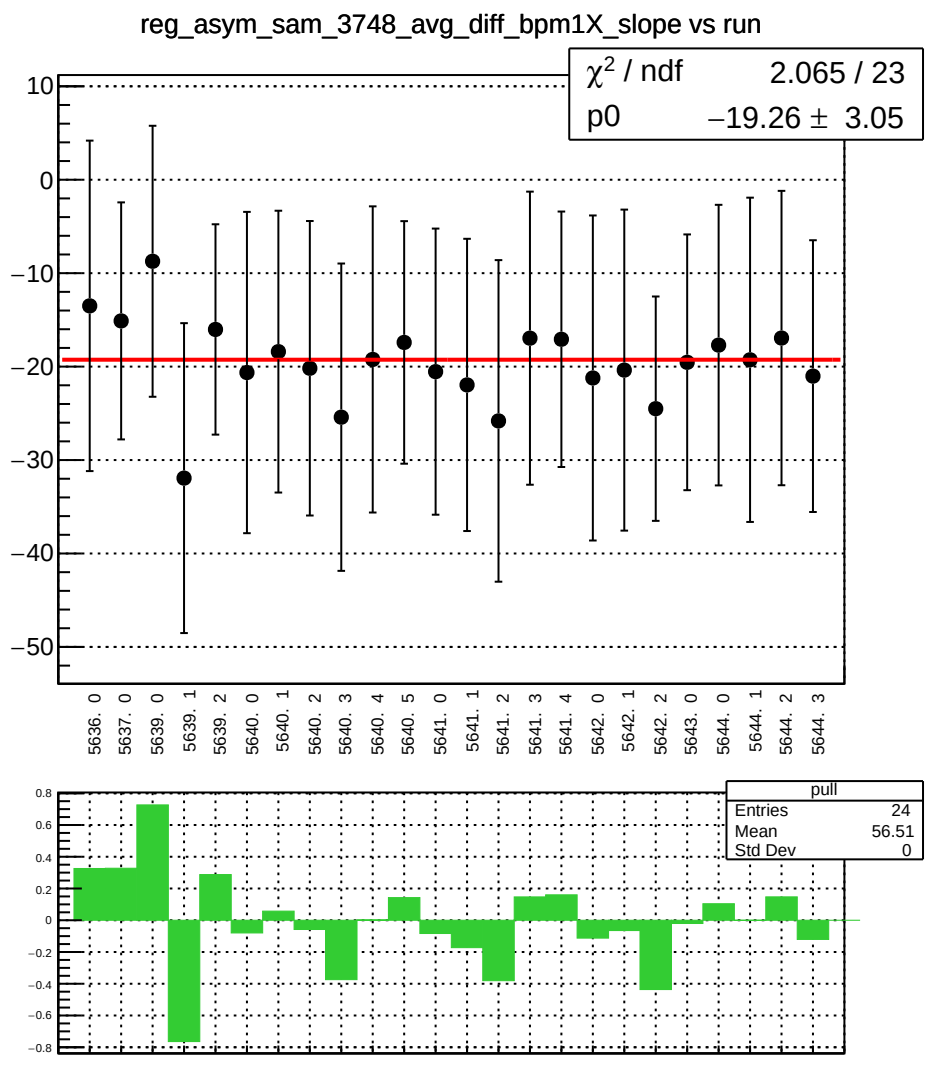

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.726 / 23
p0 −25.54 ± 1.515
−10
−15
−20
−25
−30
−35
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 72.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

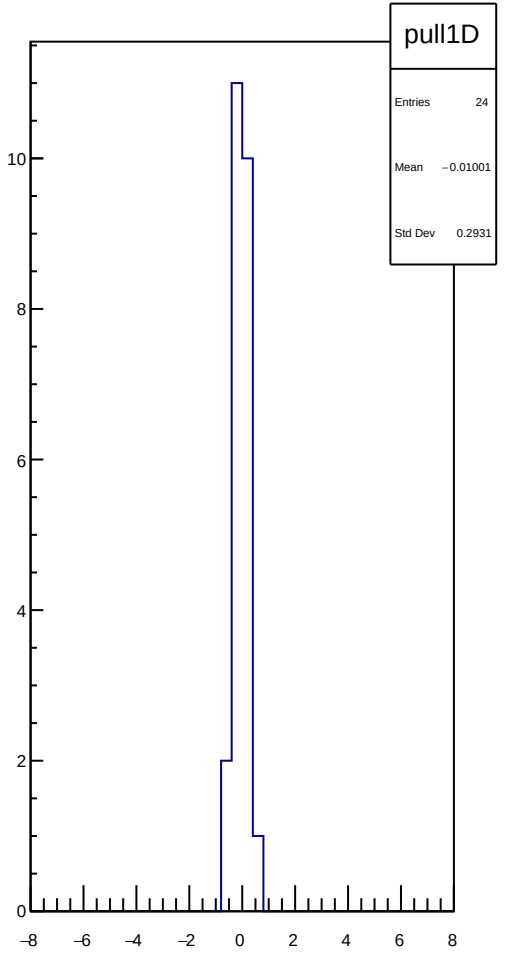

pull1D
Entries 24
Mean 0.004475
Std Dev 0.394
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

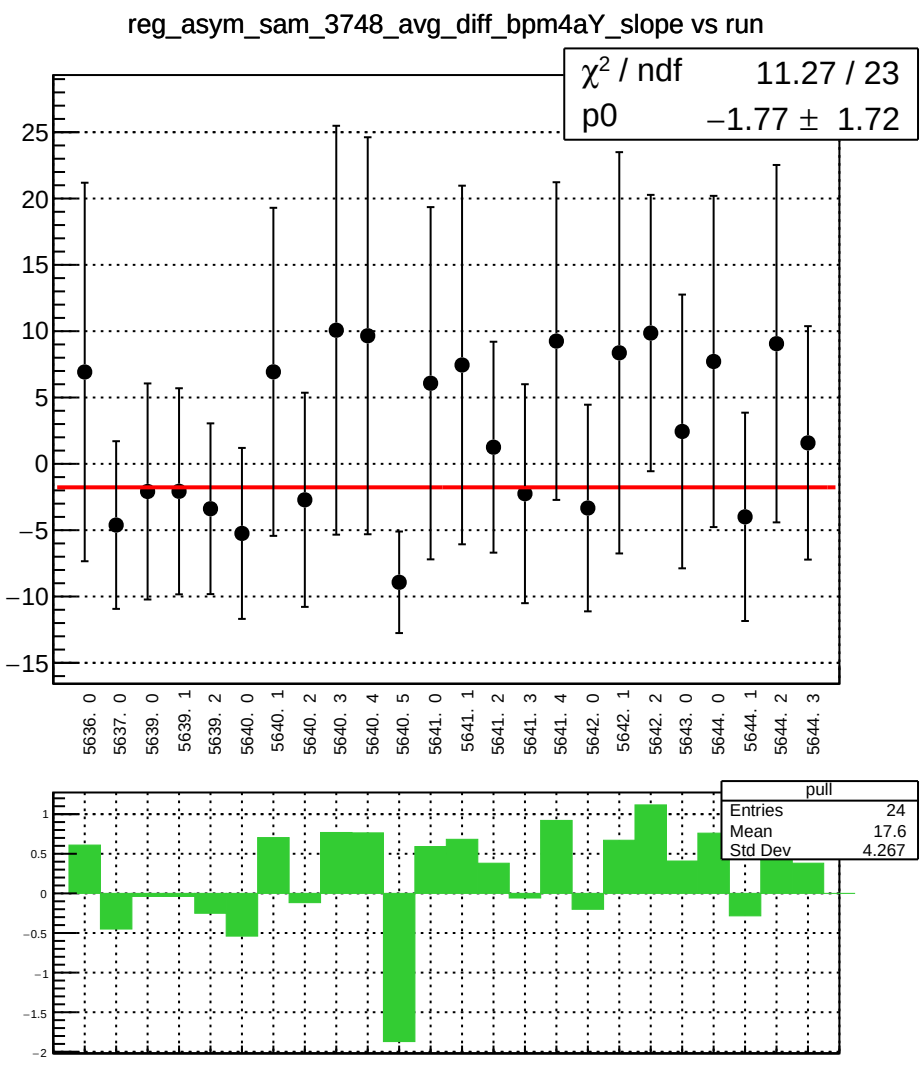

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 24.83 / 23
p0 32.06 ± 1.256
45
40
35
30
25
20
15
10
5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 17.02
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.3188
Std Dev 0.9659
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

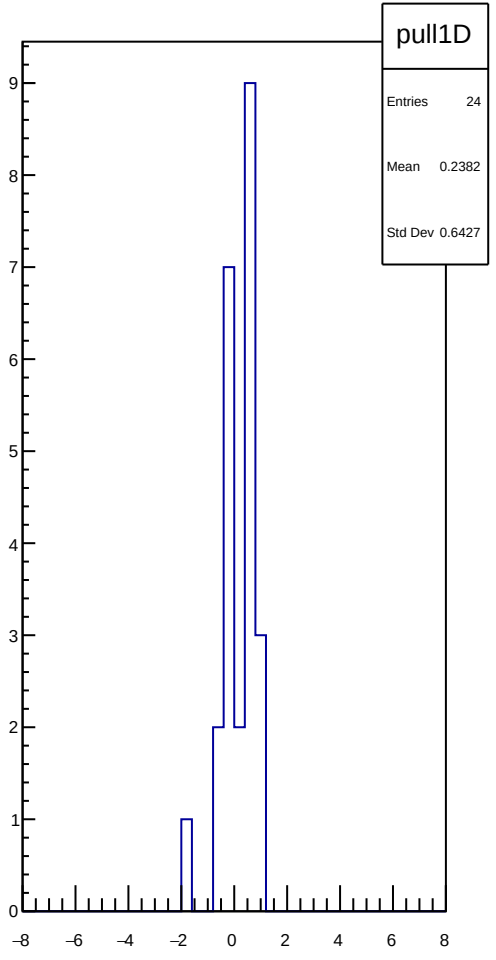

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 3.069 / 23
p0 −0.5791± 0.06164
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −64.19
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

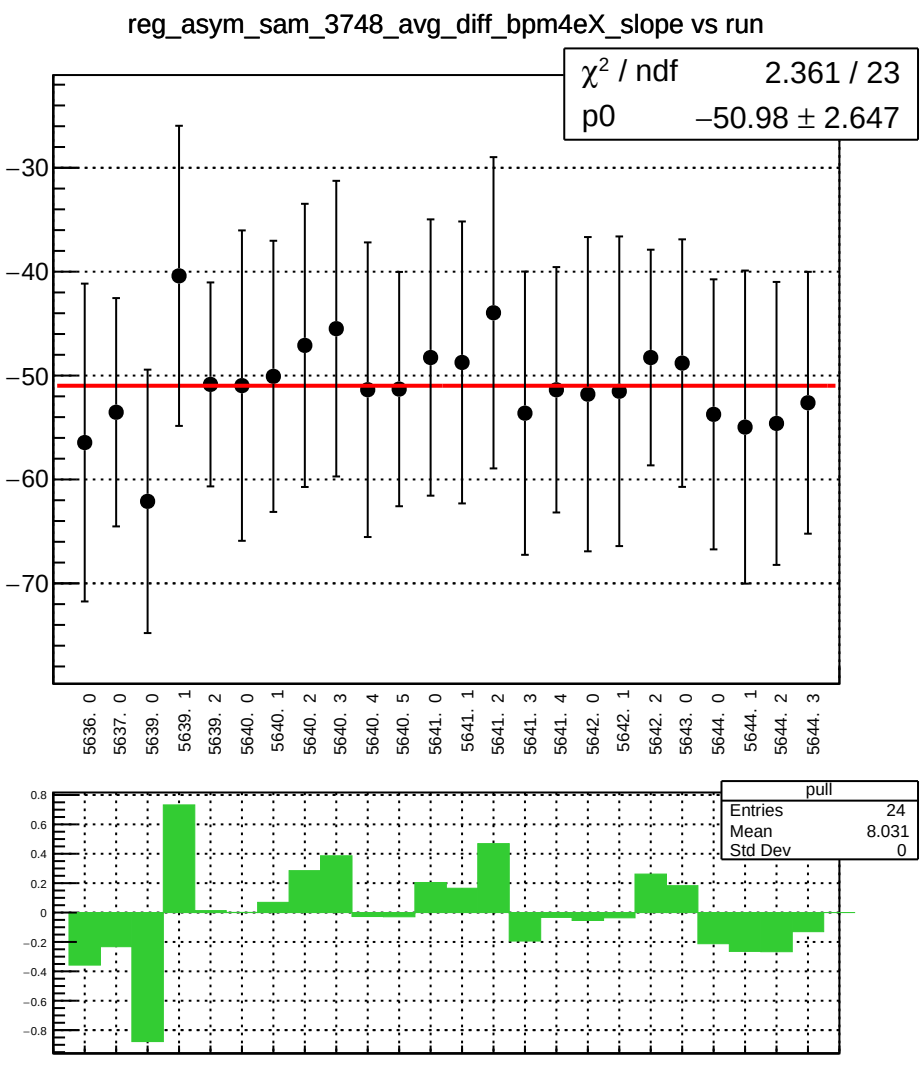

pull1D
Entries 24
Mean −0.004258
Std Dev 0.3576
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

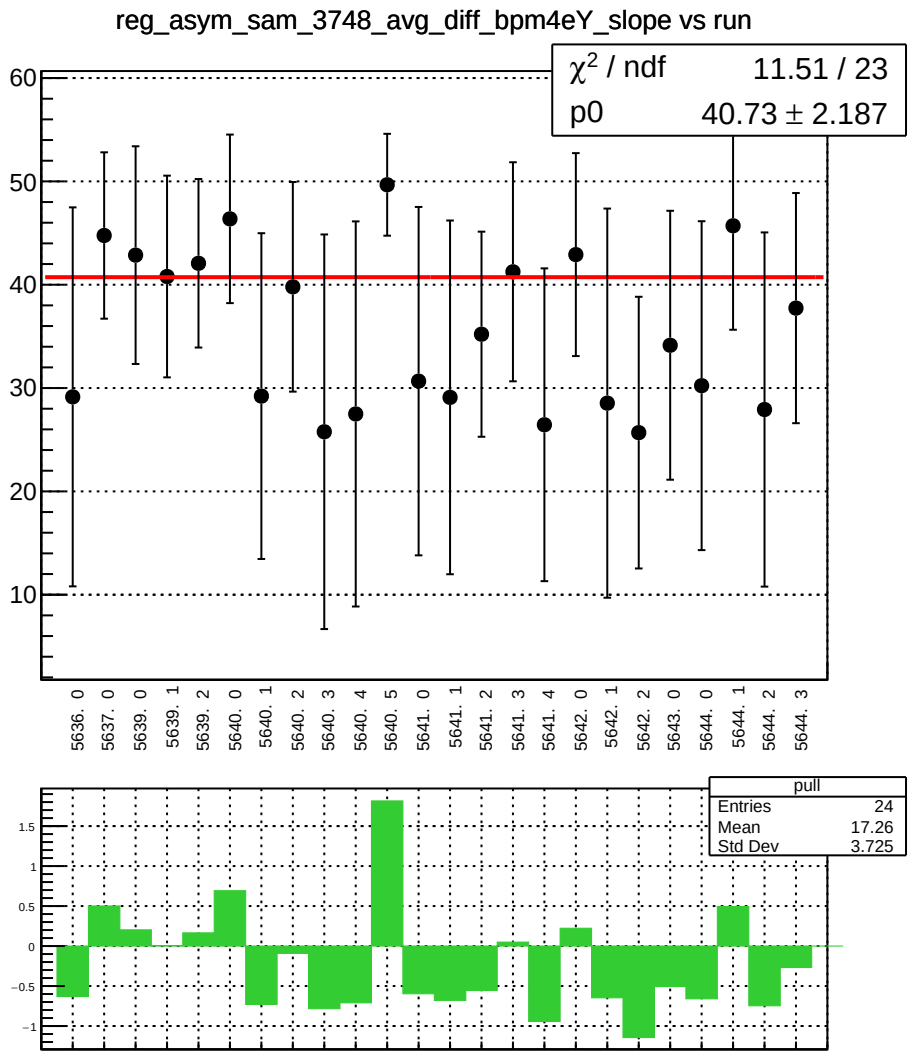

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 2.065 / 23
p0 −19.26 ± 3.05
10
0
−10
−20
−30
−40
−50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 56.51
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

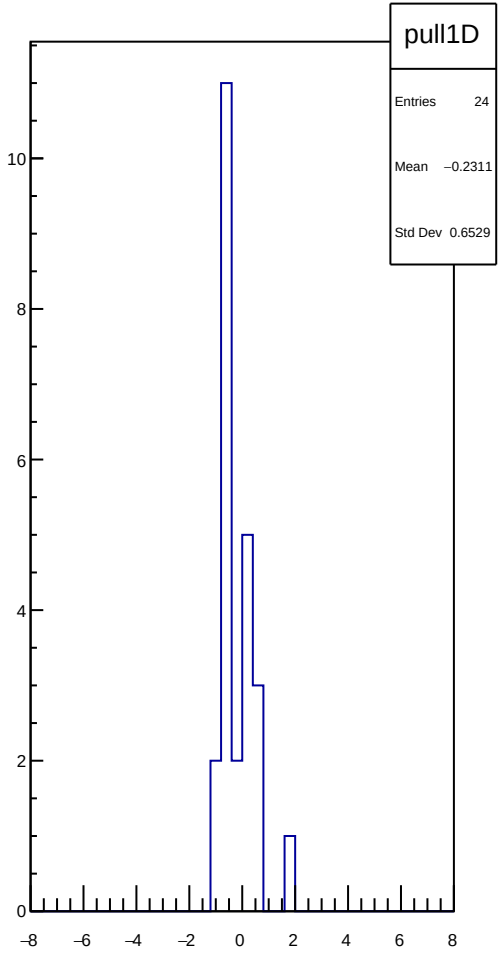

pull1D
Entries 24
Mean −0.01001
Std Dev 0.2931
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

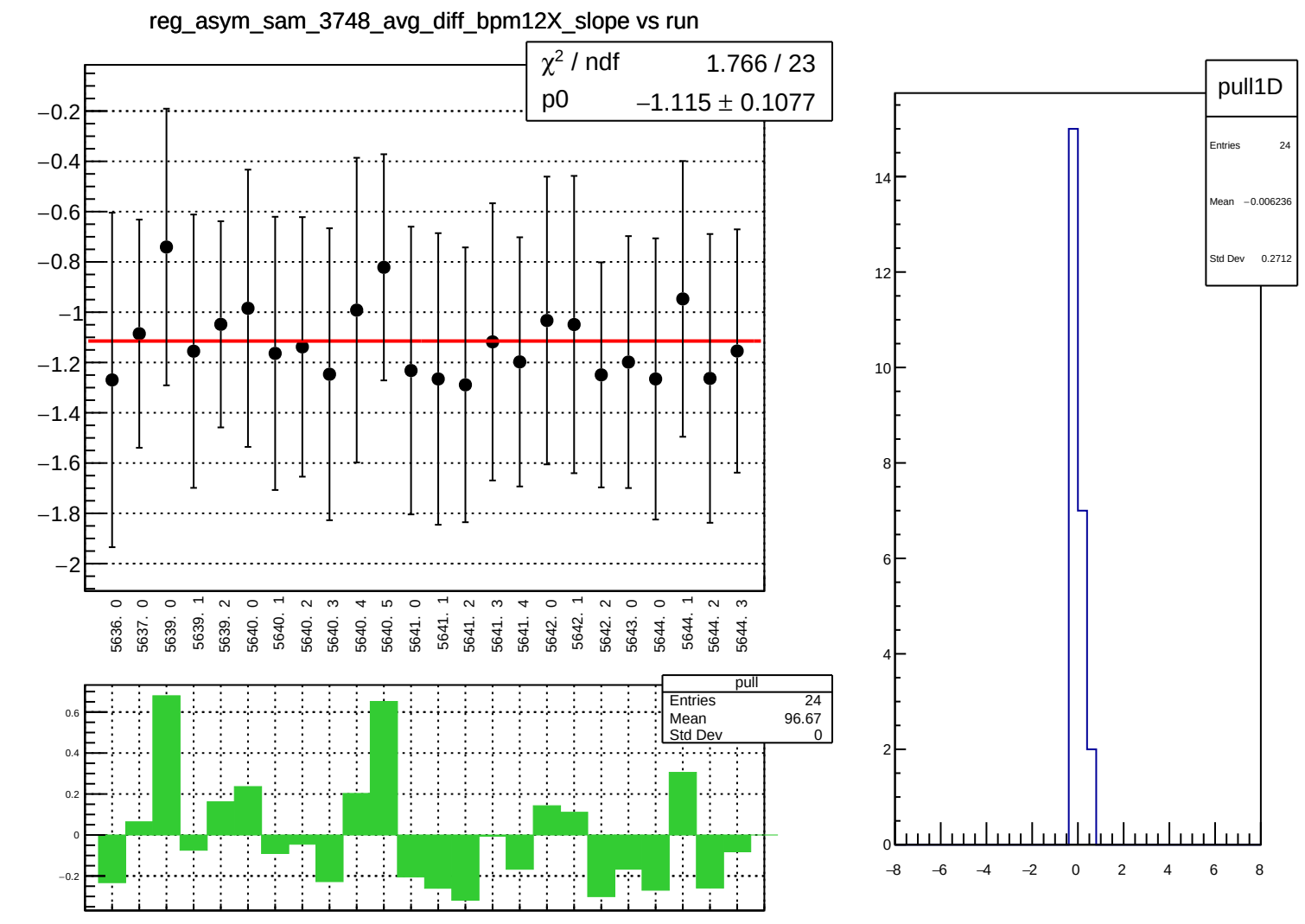

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.27 / 23
p0 −1.77 ± 1.72
25
20
15
10
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 17.6
Std Dev 4.267
1
0.5
0
−0.5
−1
−1.5
−2

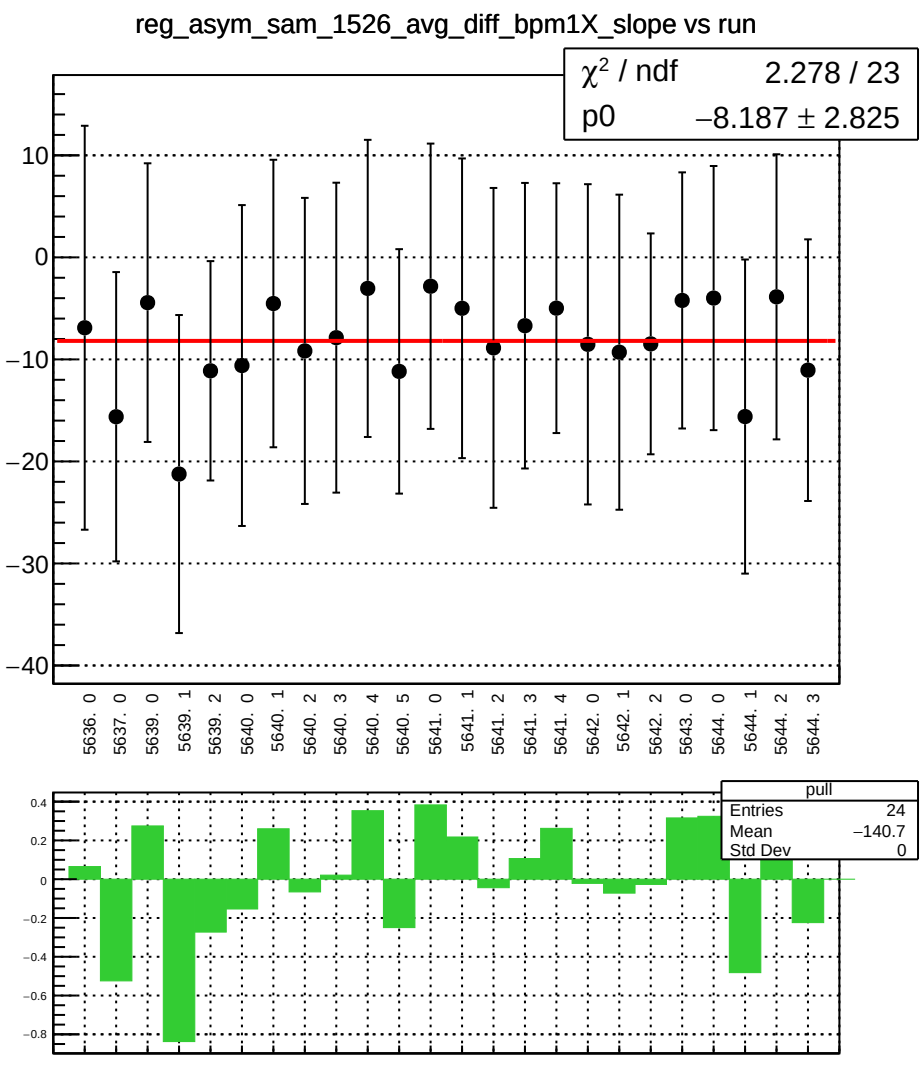

pull1D
Entries 24
Mean 0.2382
Std Dev 0.6427
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

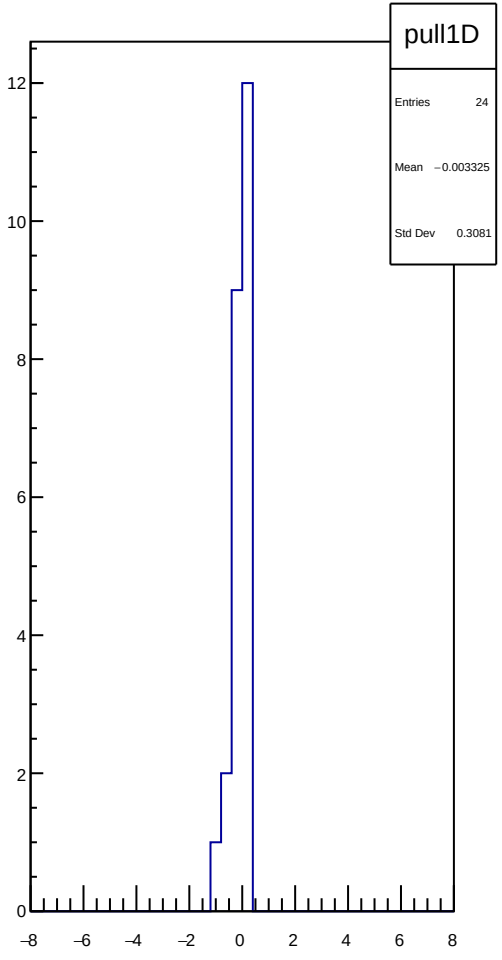

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.361 / 23
p0 −50.98 ± 2.647
−30
−40
−50
−60
−70
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 8.031
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean 0.002415
Std Dev 0.3137
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

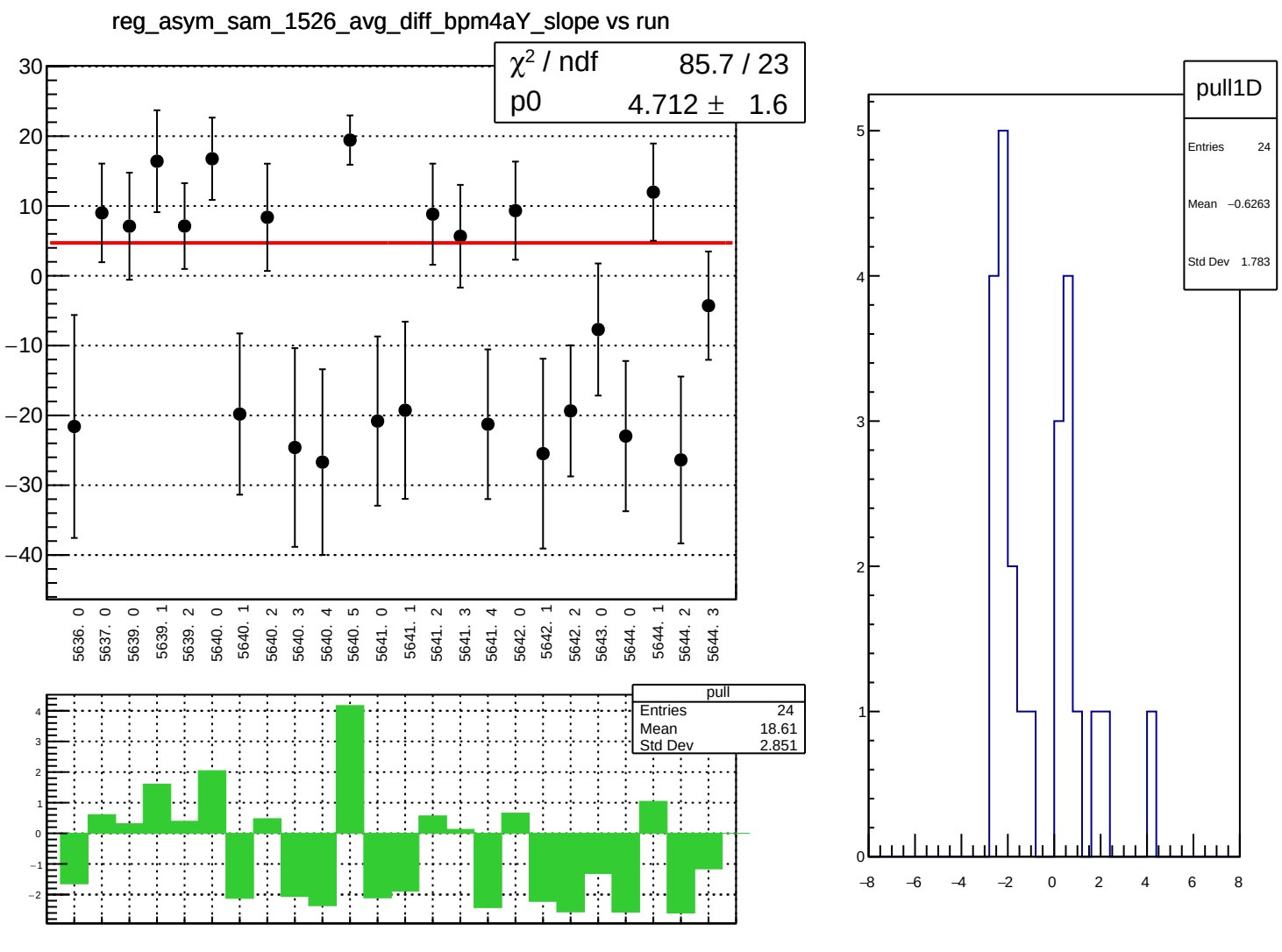

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.51 / 23
p0 40.73 ± 2.187
60
50
40
30
20
10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 17.26
Std Dev 3.725
1.5
1
0.5
0
−0.5
−1

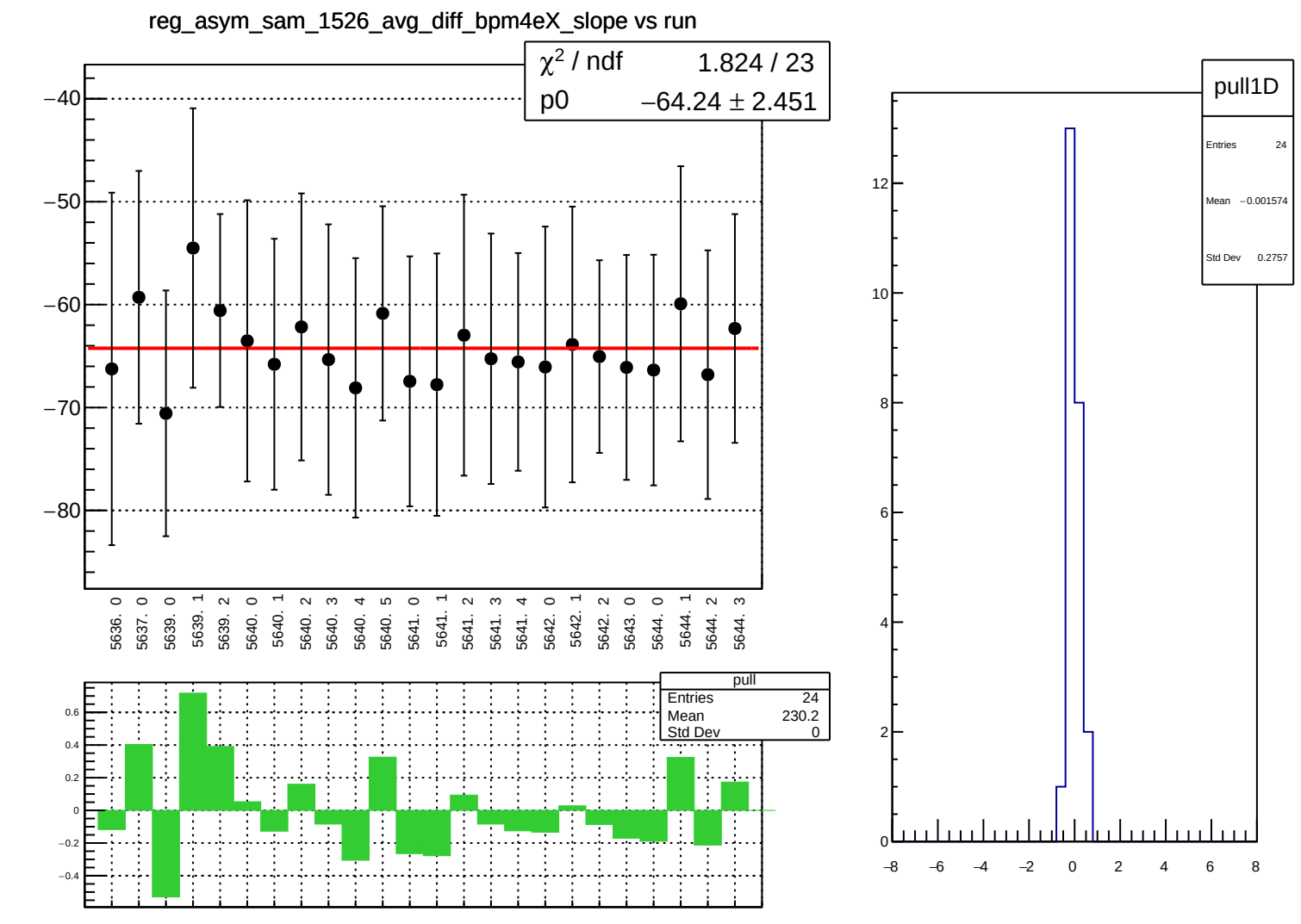

pull1D
Entries 24
Mean −0.2311
Std Dev 0.6529
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

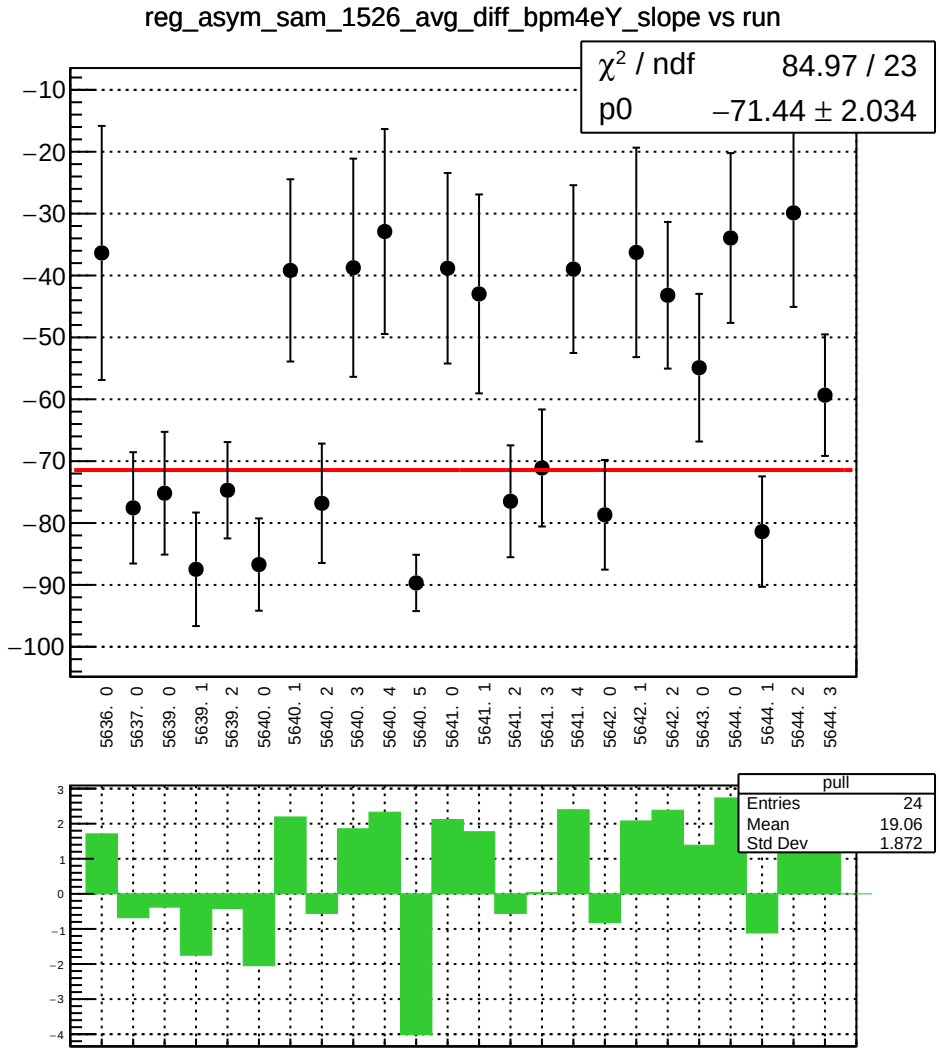

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 1.766 / 23
p0 −1.115 ± 0.1077
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
−1.6
−1.8
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 96.67
Std Dev 0
0.6
0.4
0.2
0
−0.2
pull1D
Entries 24
Mean −0.006236
Std Dev 0.2712
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

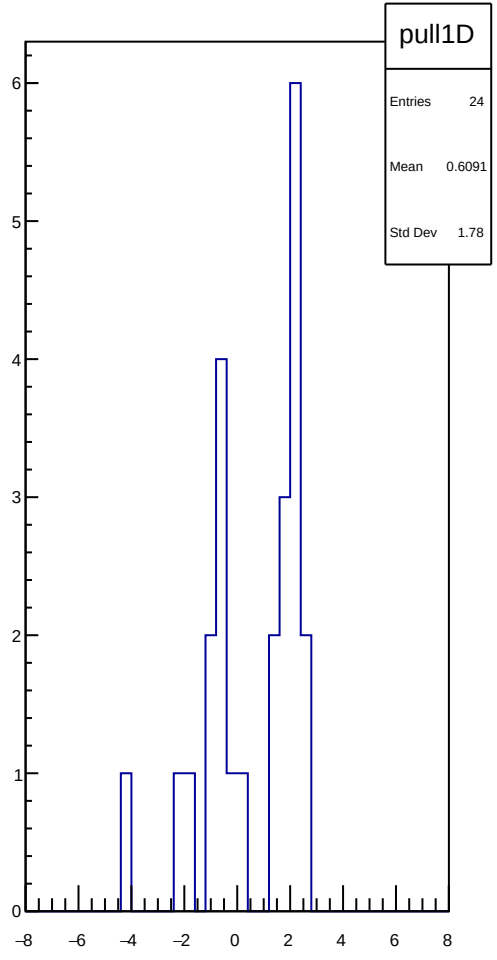

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 2.278 / 23
p0 −8.187 ± 2.825
10
0
−10
−20
−30
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −140.7
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

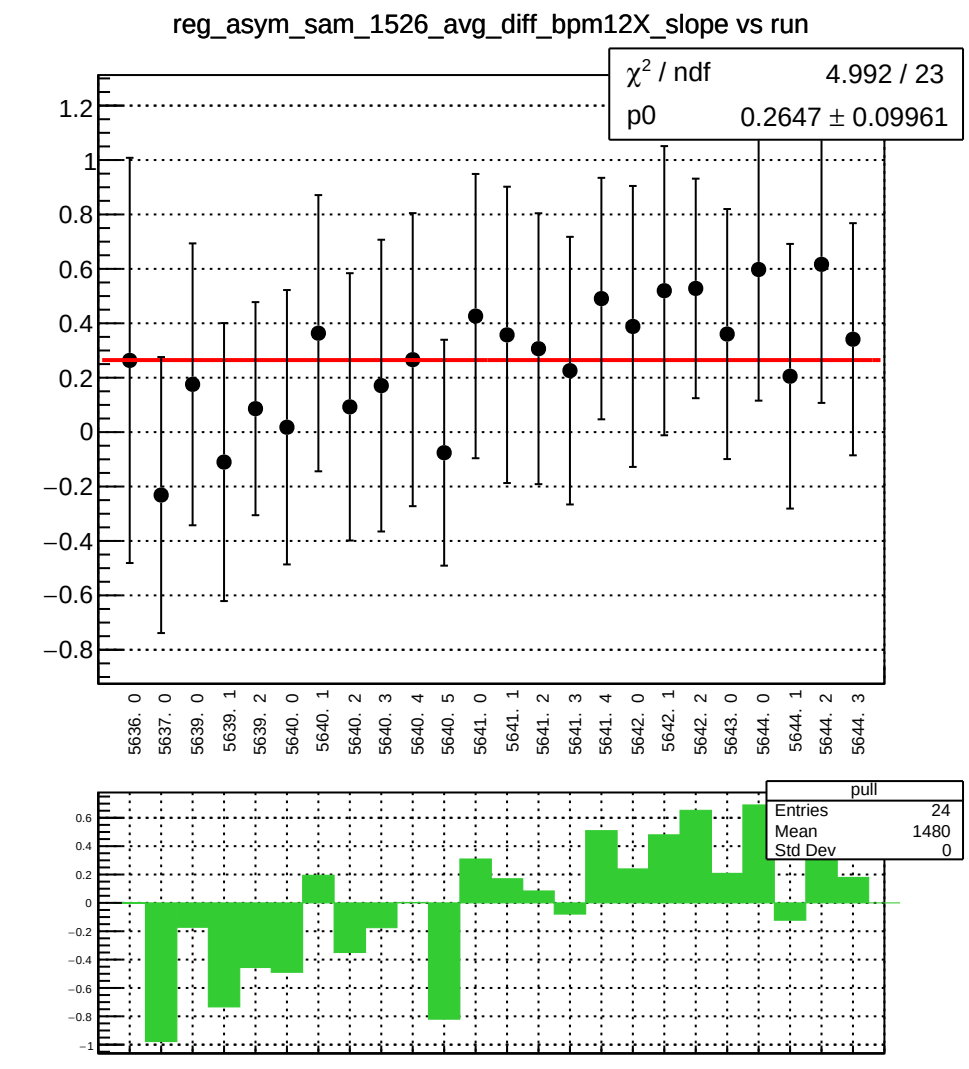

pull1D
Entries 24
Mean −0.003325
Std Dev 0.3081
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

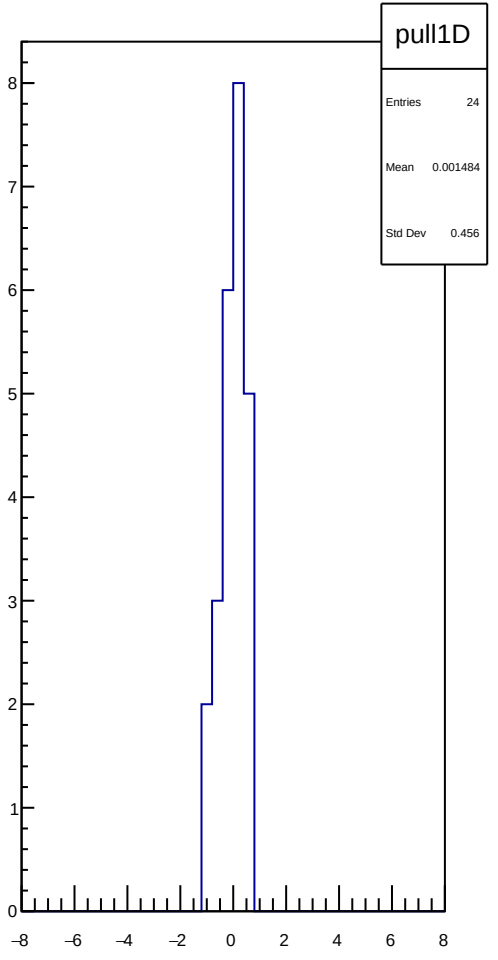

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 85.7 / 23
p0 4.712 ± 1.6
30
20
10
0
−10
−20
−30
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 18.61
Std Dev 2.851
pull1D
Entries 24
Mean −0.6263
Std Dev 1.783

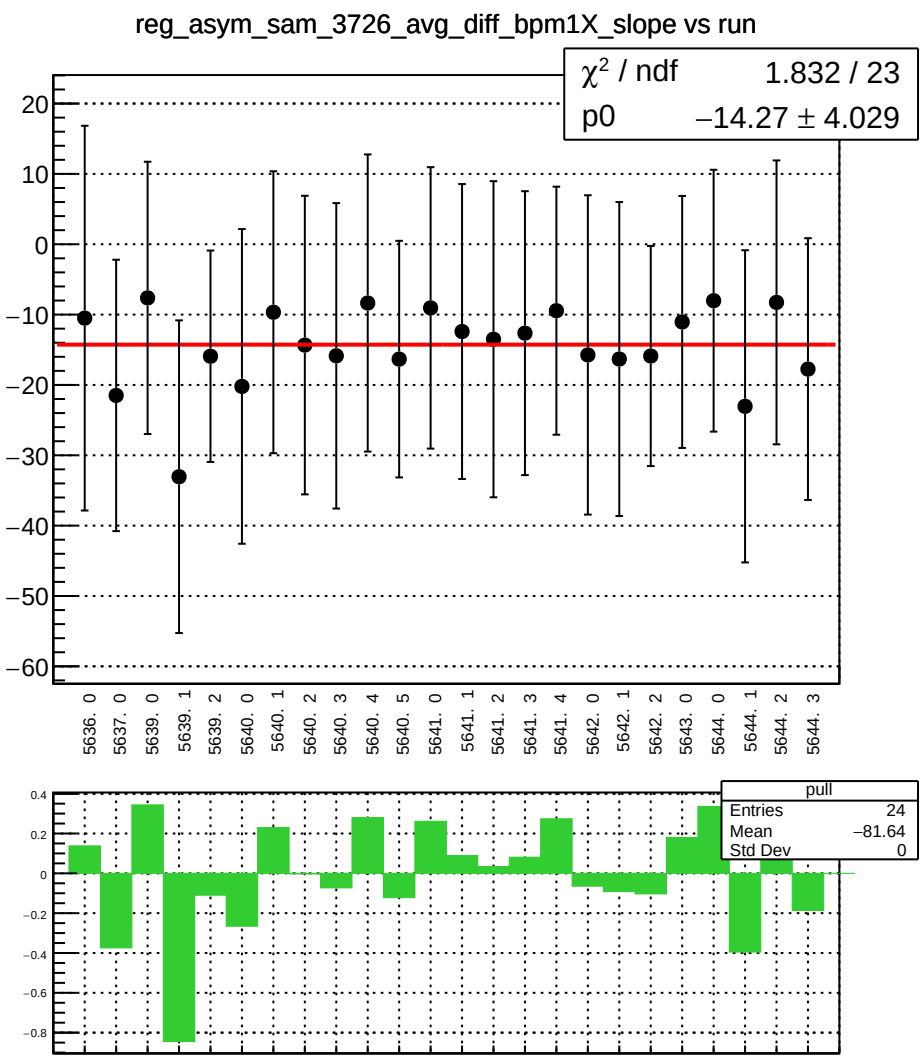

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.824 / 23
p0 −64.24 ± 2.451
−40
−50
−60
−70
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 230.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 24
Mean −0.001574
Std Dev 0.2757
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

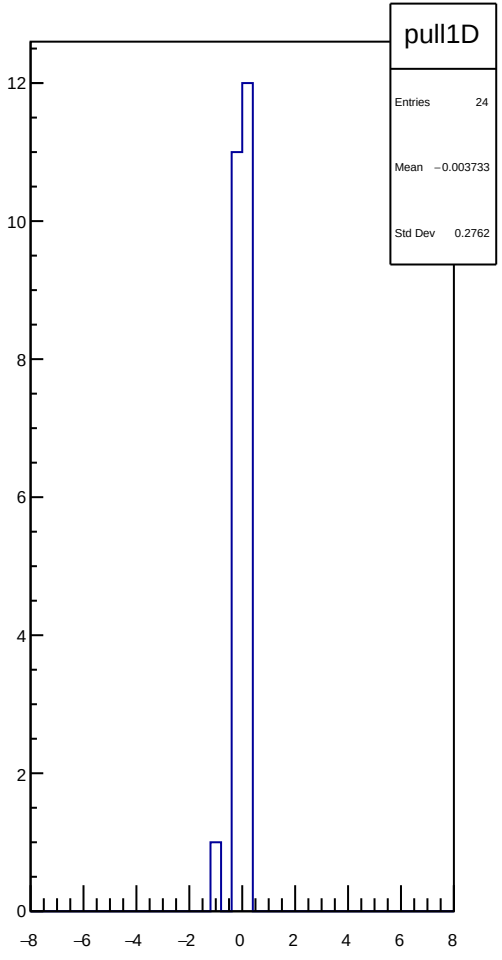

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 84.97 / 23
p0 −71.44 ± 2.034
−10
−20
−30
−40
−50
−60
−70
−80
−90
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 19.06
Std Dev 1.872
3
2
1
0
−1
−2
−3
−4

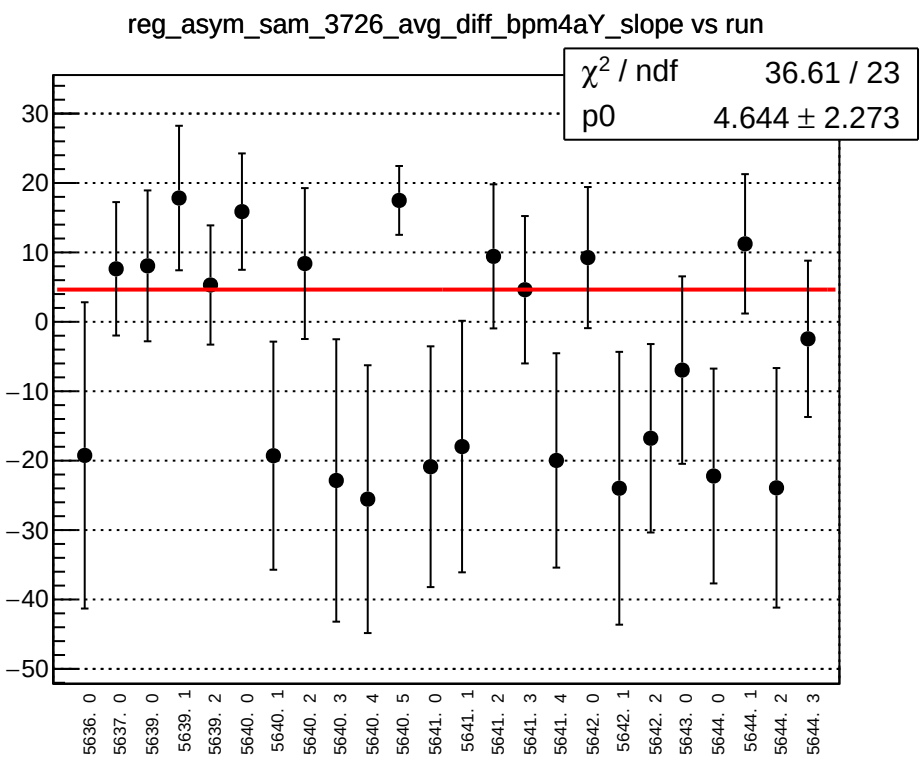

pull1D
Entries 24
Mean 0.6091
Std Dev 1.78
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

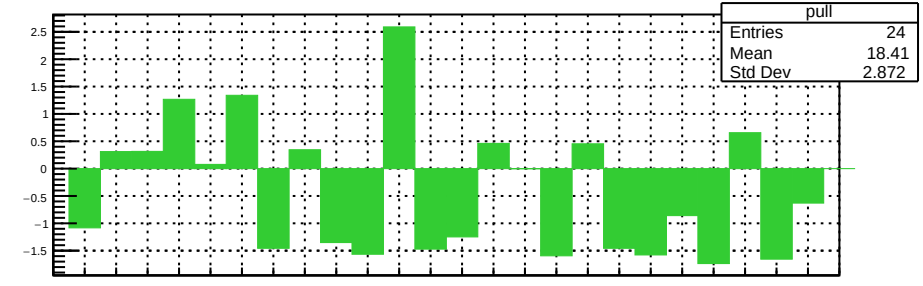

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 4.992 / 23
p0 0.2647 ± 0.09961
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 1480
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

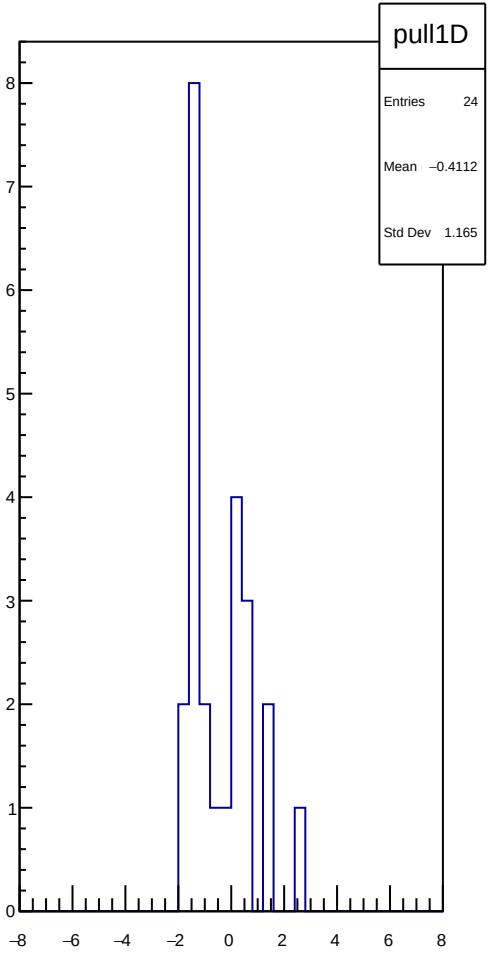

pull1D
Entries 24
Mean 0.001484
Std Dev 0.456
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

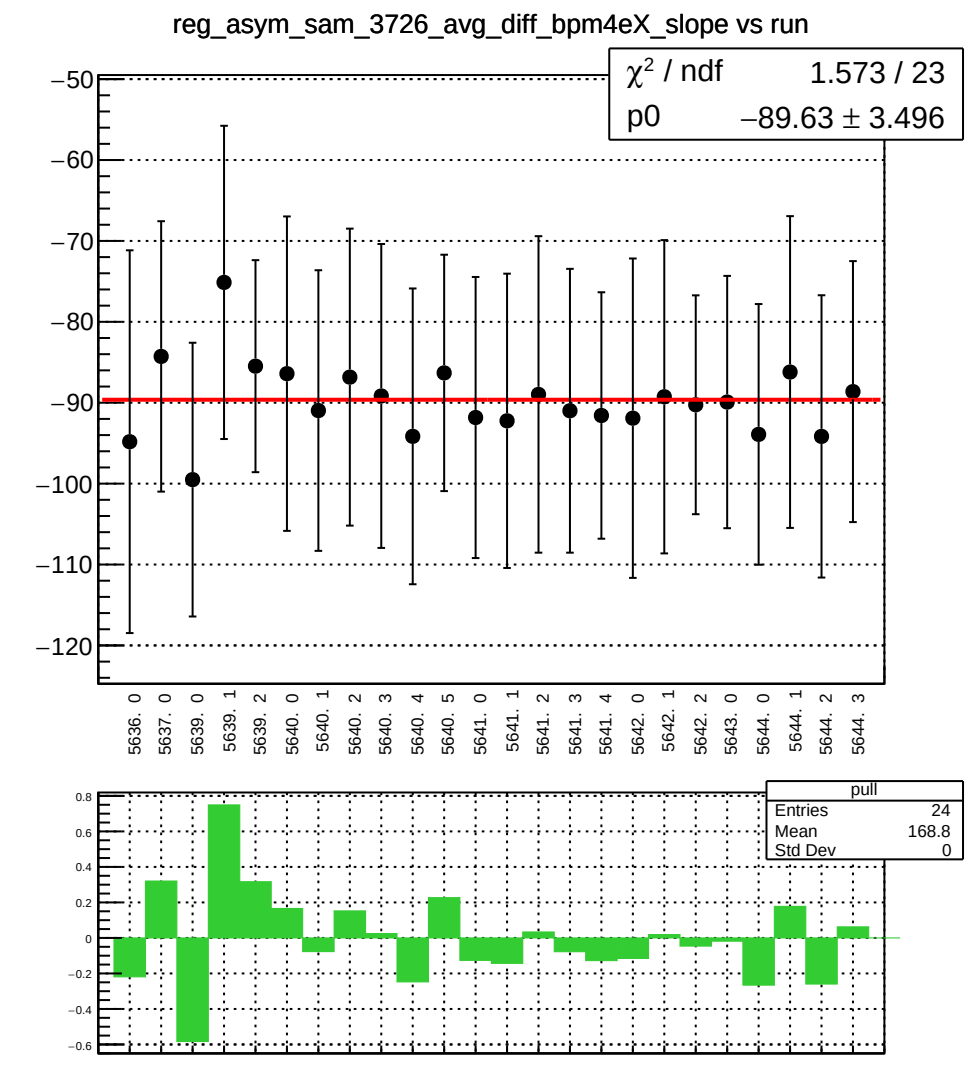

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 1.832 / 23
p0 −14.27 ± 4.029
20
10
0
−10
−20
−30
−40
−50
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −81.64
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

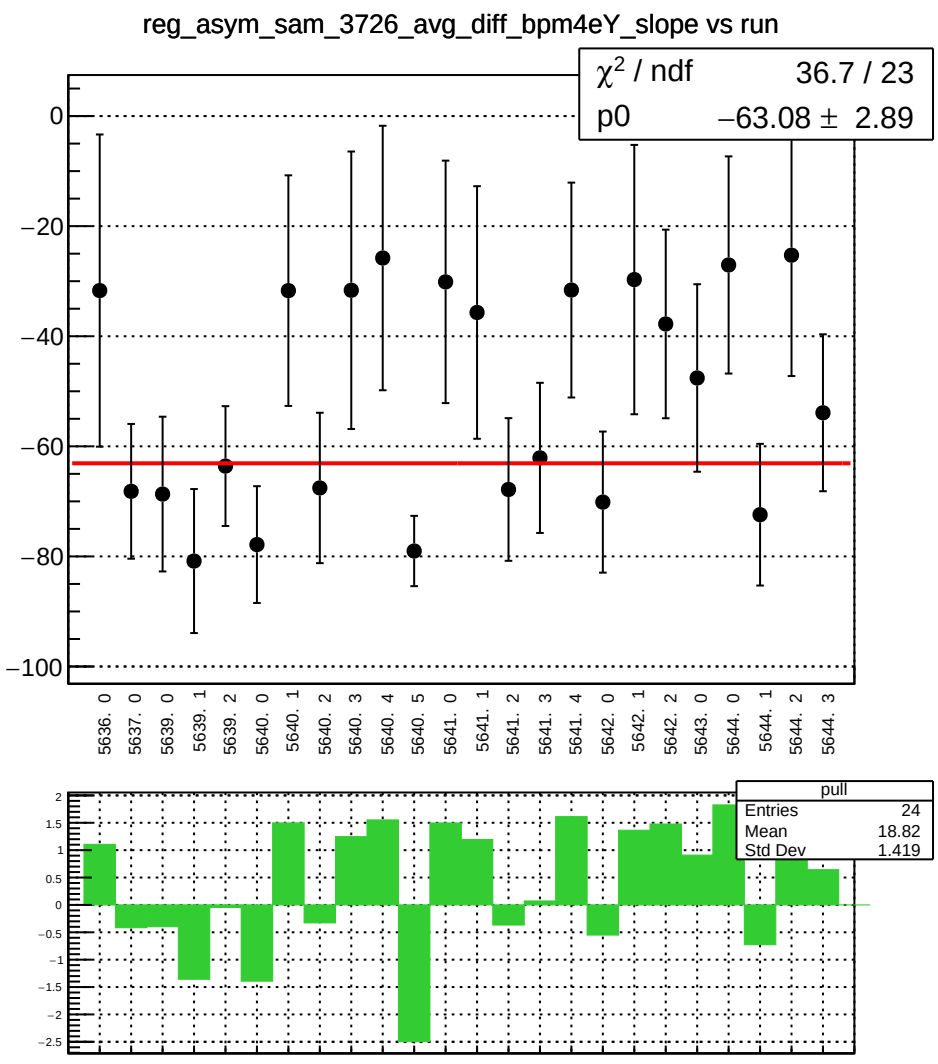

pull1D
Entries 24
Mean −0.003733
Std Dev 0.2762
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

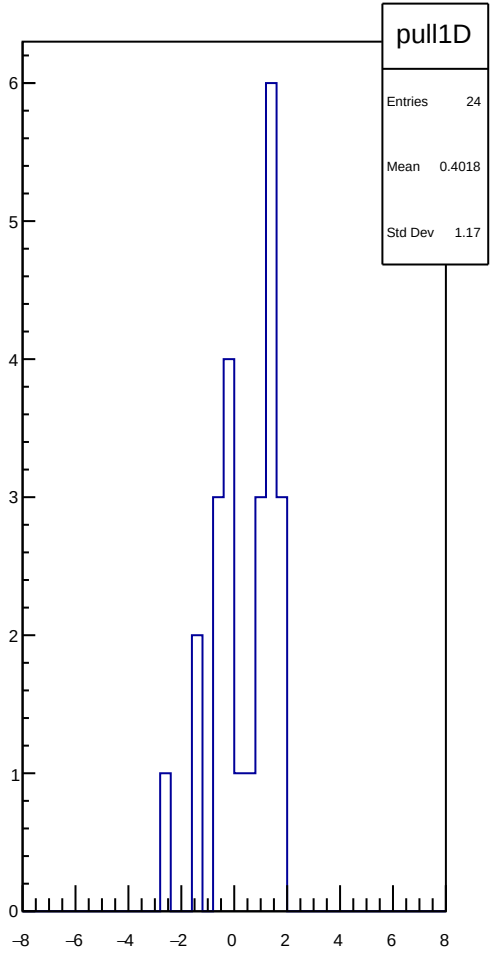

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 36.61 / 23
p0 4.644 ± 2.273
30
20
10
0
−10
−20
−30
−40
−50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

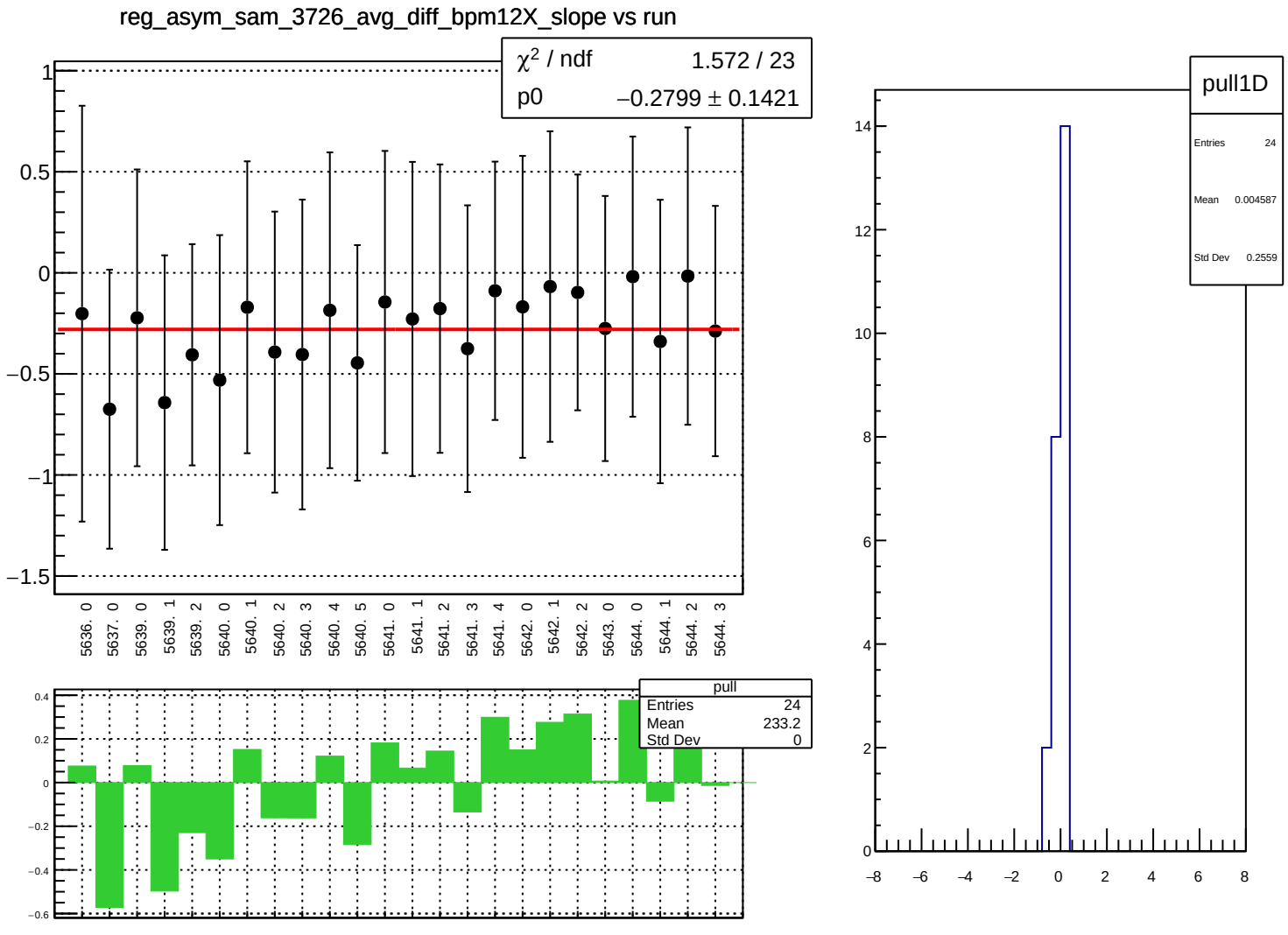

pull
Entries 24
Mean 18.41
Std Dev 2.872
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

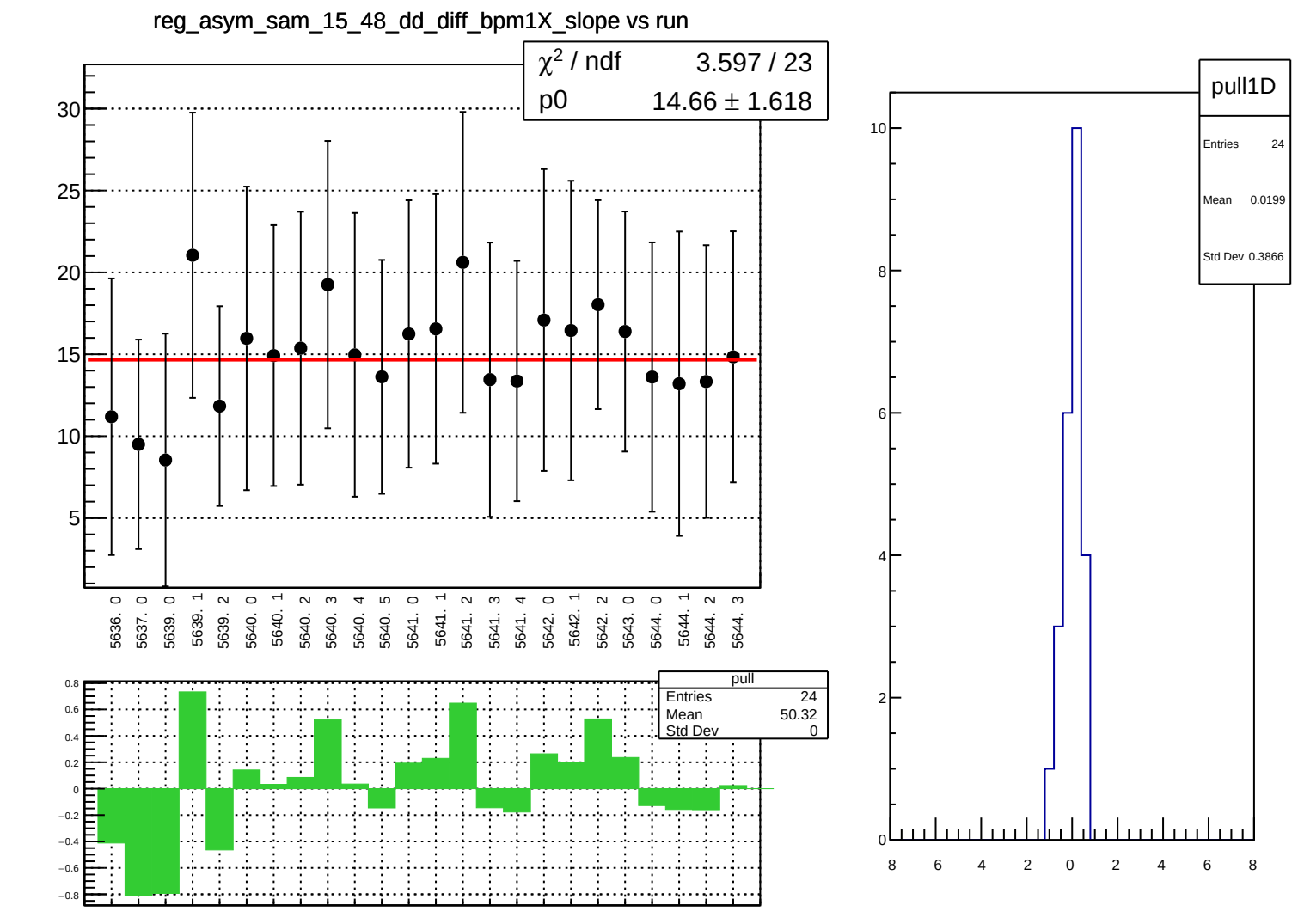

pull1D
Entries 24
Mean −0.4112
Std Dev 1.165
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

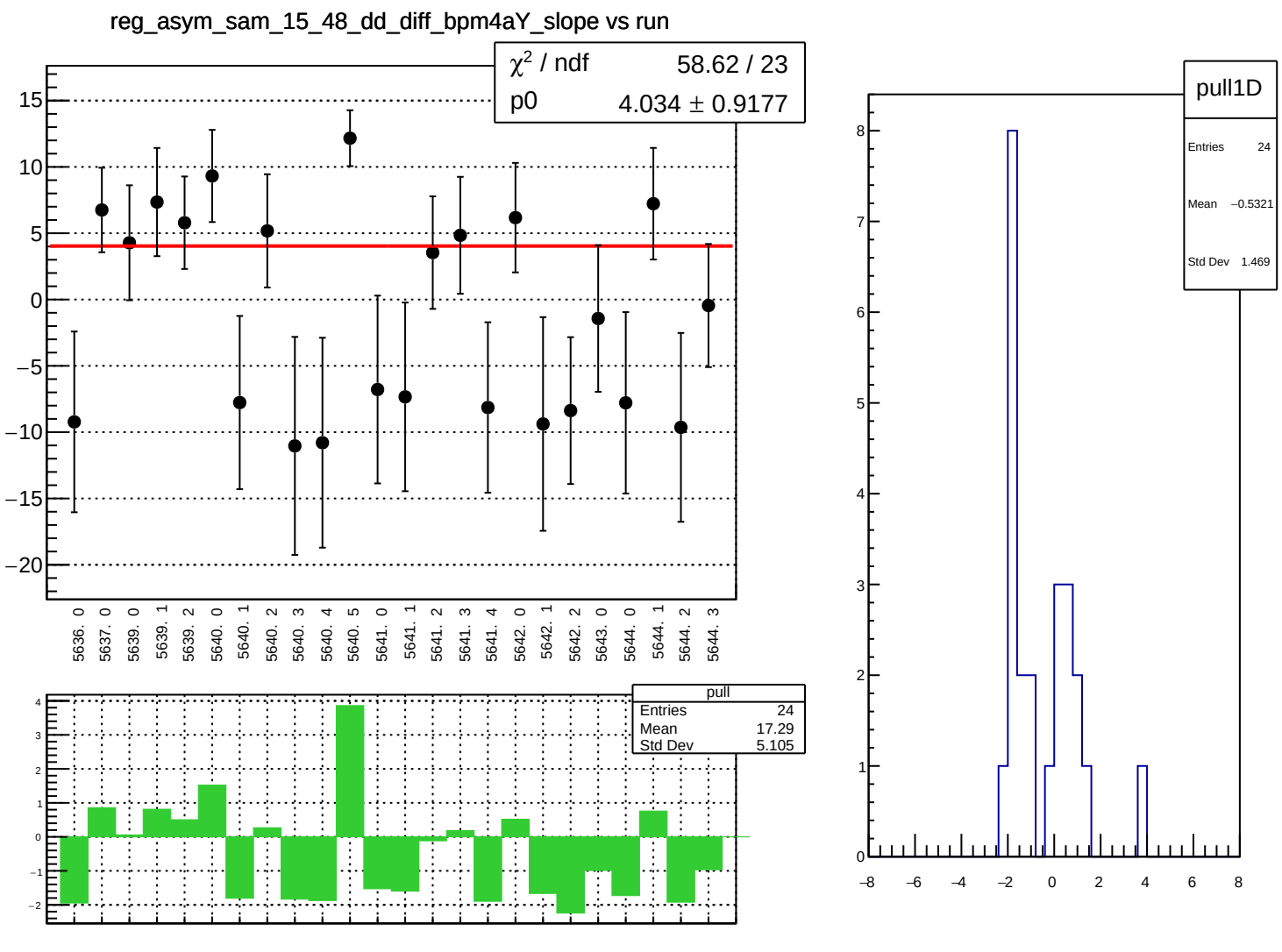

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.573 / 23
p0 −89.63 ± 3.496
−50
−60
−70
−80
−90
−100
−110
−120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 168.8
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 24
Mean −0.002451
Std Dev 0.256
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

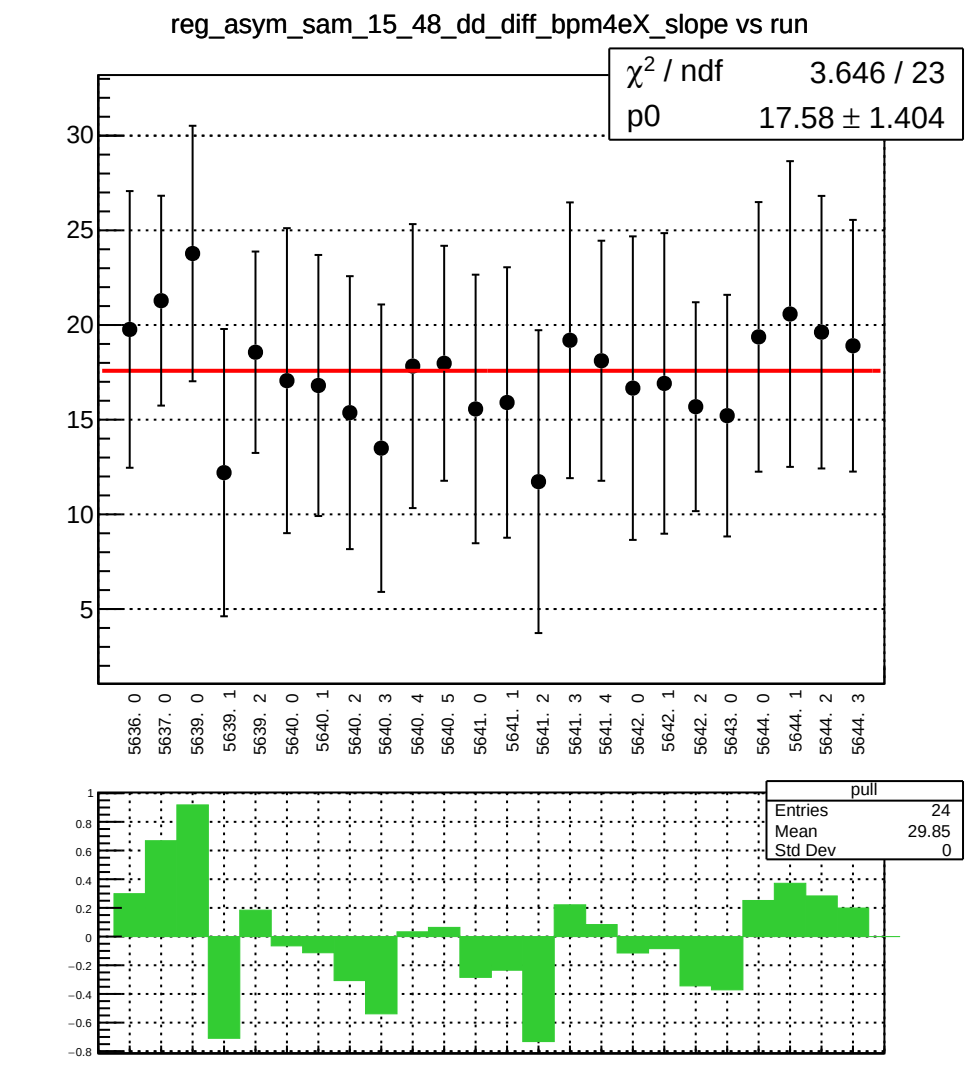

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 36.7 / 23
p0 −63.08 ± 2.89
0
−20
−40
−60
−80
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 18.82
Std Dev 1.419
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

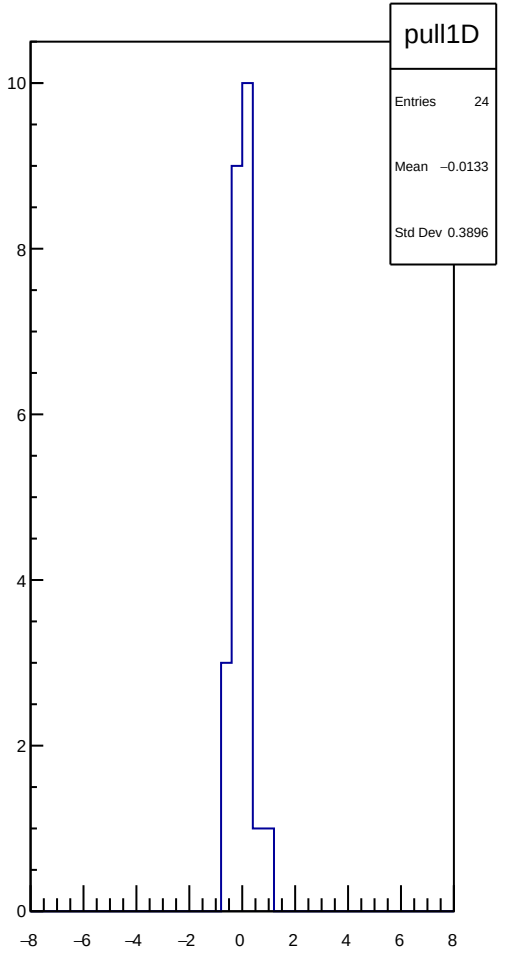

pull1D
Entries 24
Mean 0.4018
Std Dev 1.17
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

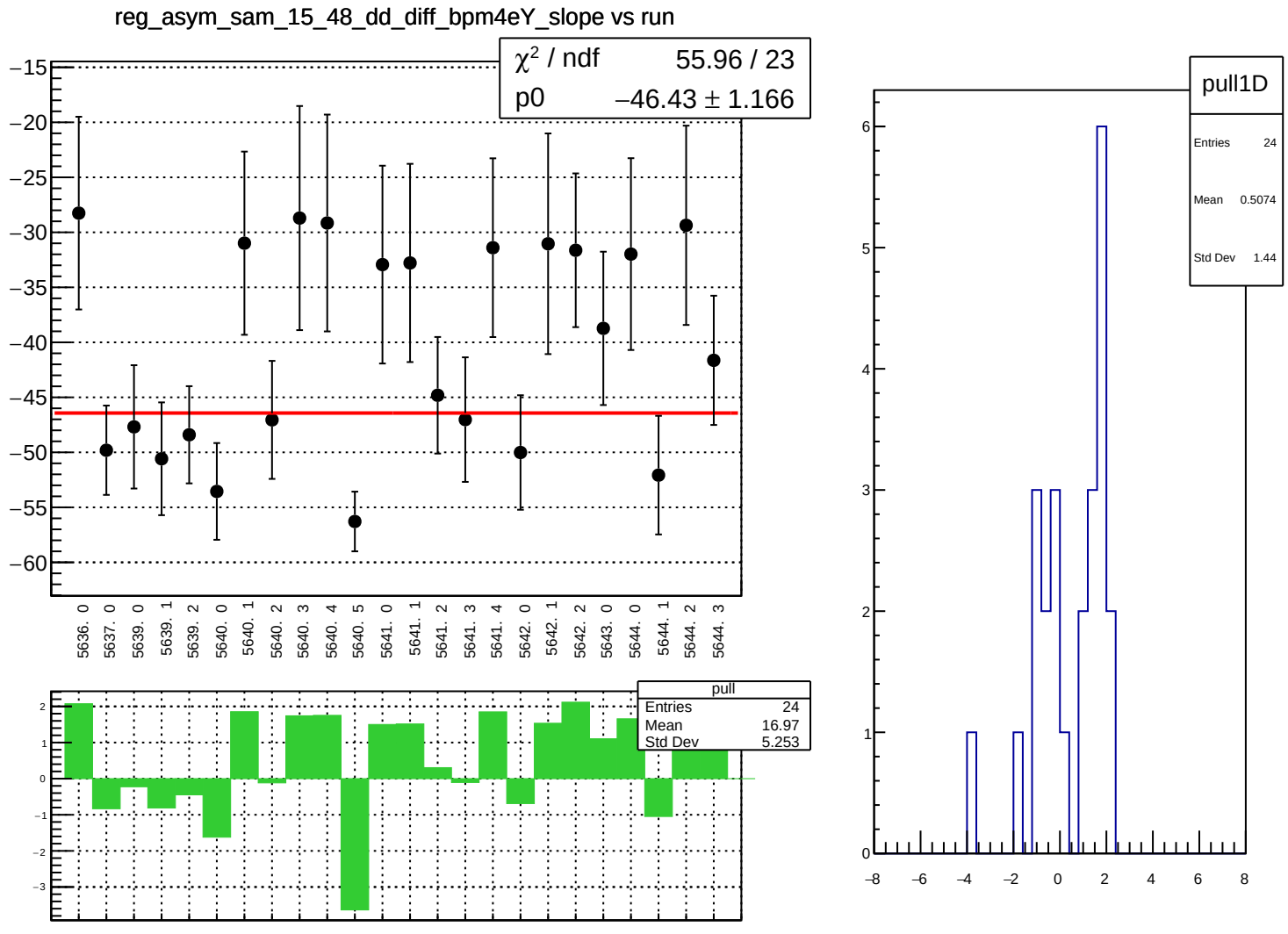

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 1.572 / 23
p0 −0.2799 ± 0.1421
1
0.5
0
−0.5
−1
−1.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 233.2
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 24
Mean 0.004587
Std Dev 0.2559
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

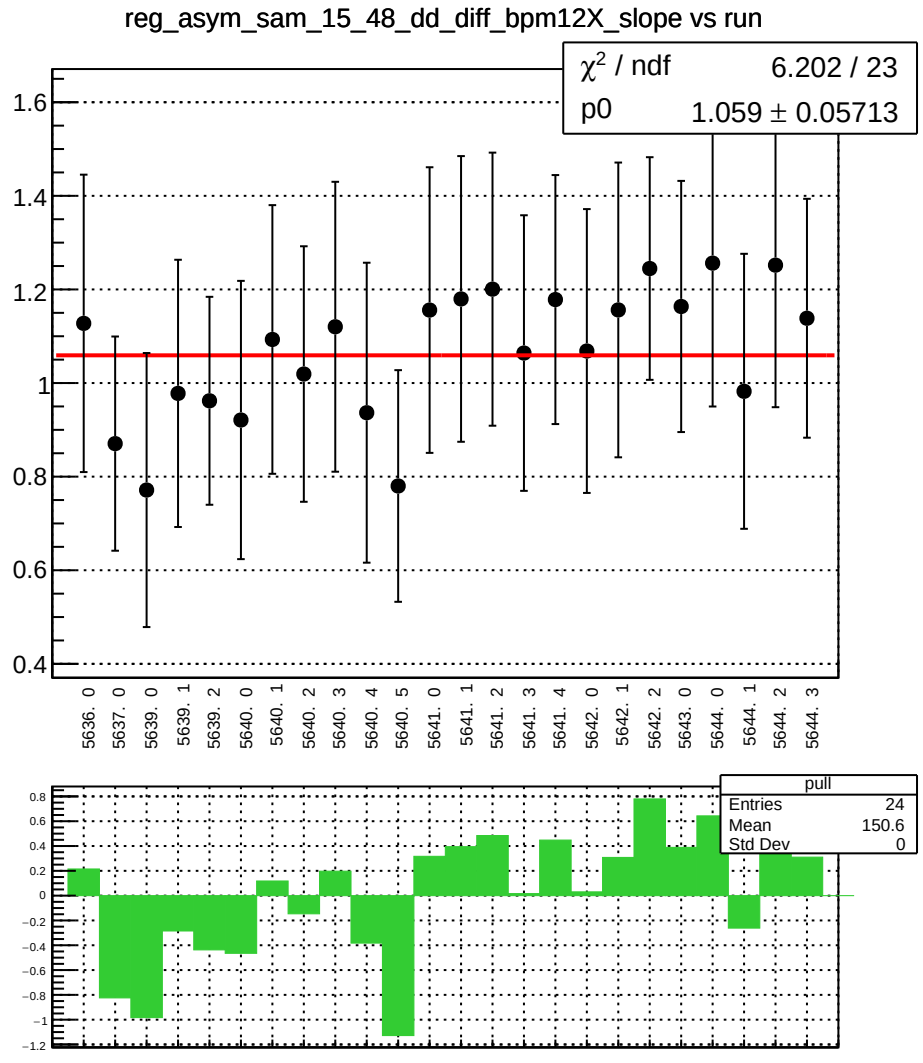

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 3.597 / 23
p0 14.66 ± 1.618
30
25
20
15
10
5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 50.32
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean 0.0199
Std Dev 0.3866
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

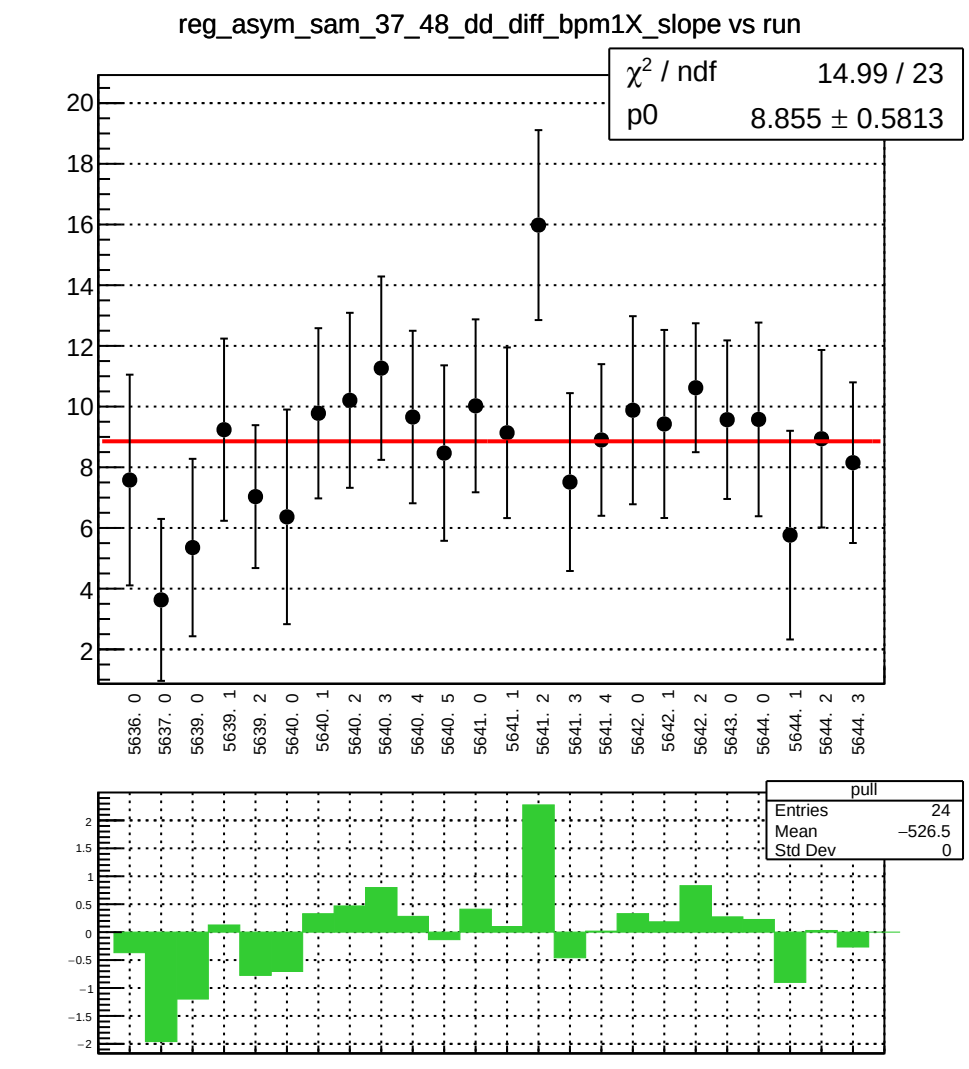

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 58.62 / 23
p0 4.034 ± 0.9177
15
10
5
0
−5
−10
−15
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 17.29
Std Dev 5.105
4
3
2
1
0
−1
−2
pull1D
Entries 24
Mean −0.5321
Std Dev 1.469
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

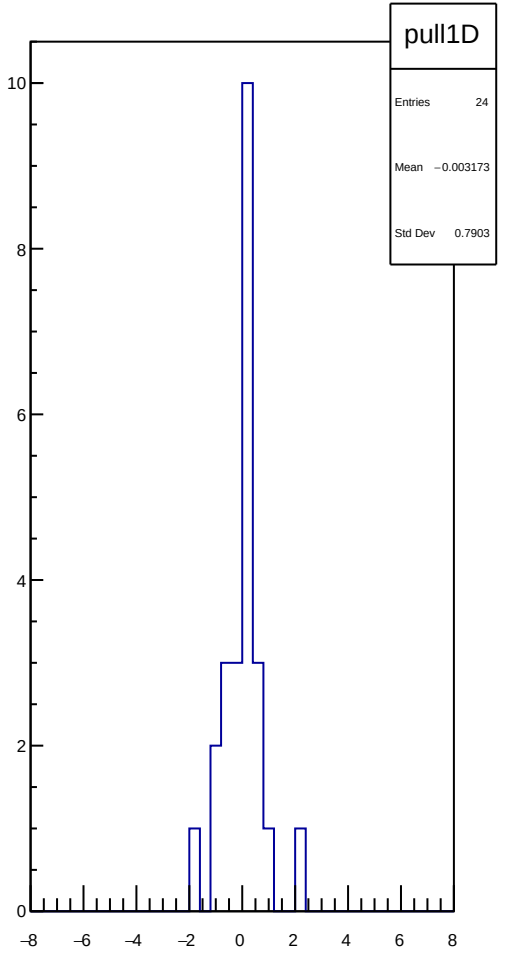

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.646 / 23
p0 17.58 ± 1.404
30
25
20
15
10
5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 29.85
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

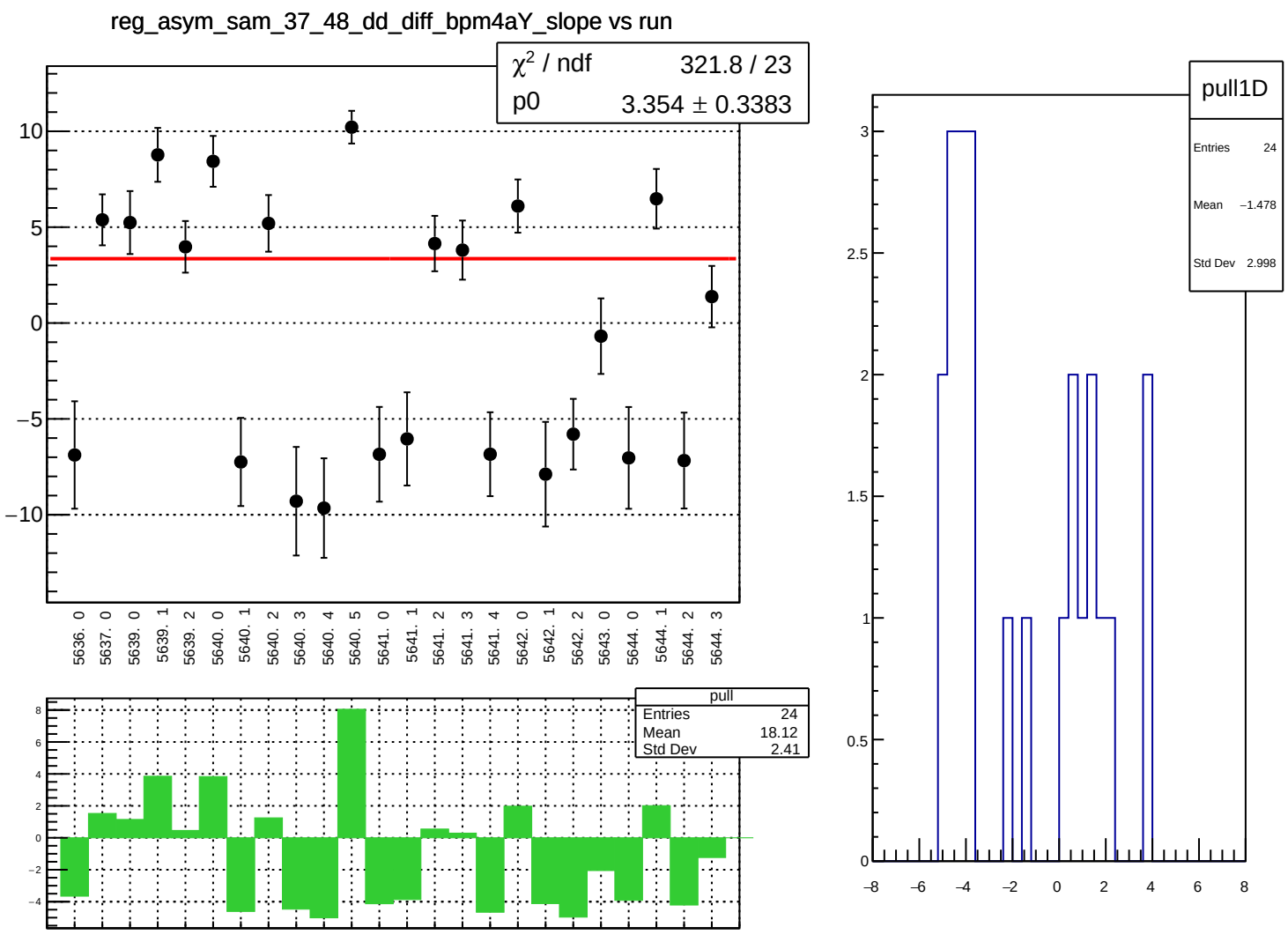

pull1D
Entries 24
Mean −0.0133
Std Dev 0.3896
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

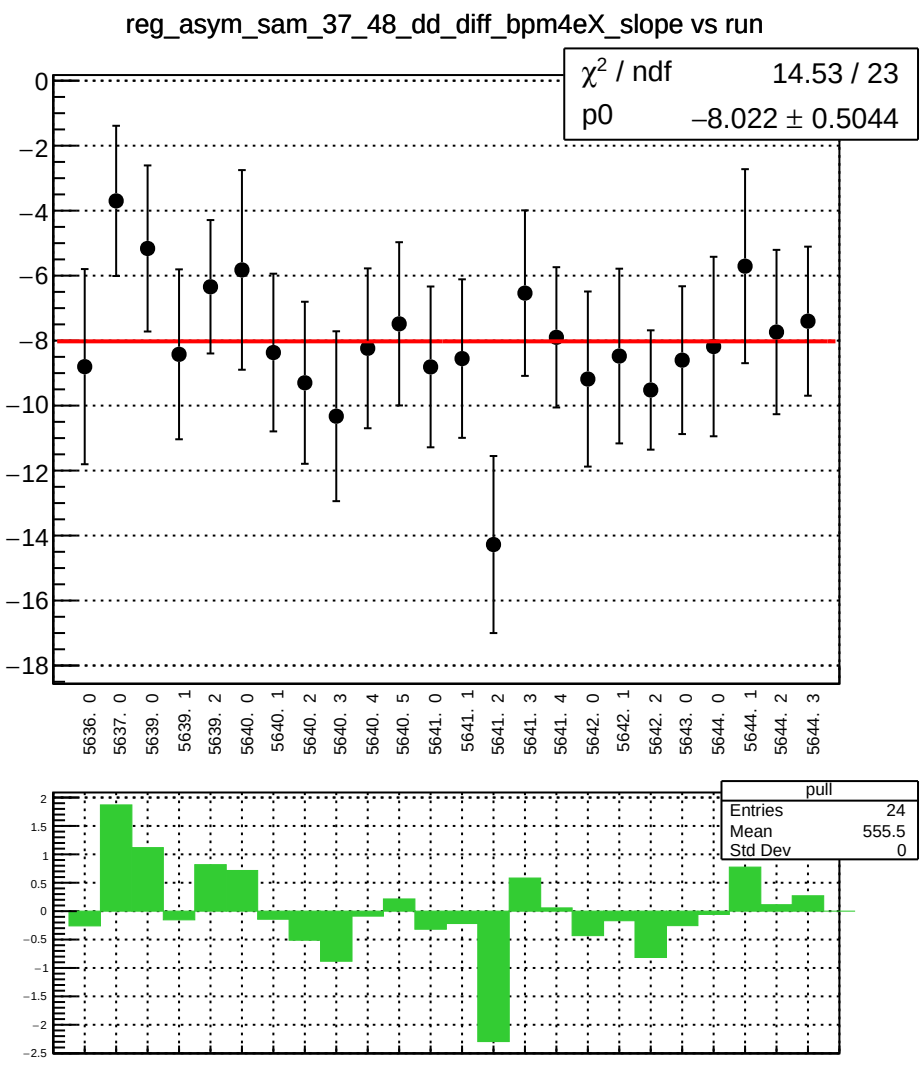

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 55.96 / 23
p0 −46.43 ± 1.166
−15
−20
−25
−30
−35
−40
−45
−50
−55
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 16.97
Std Dev 5.253
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean 0.5074
Std Dev 1.44
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

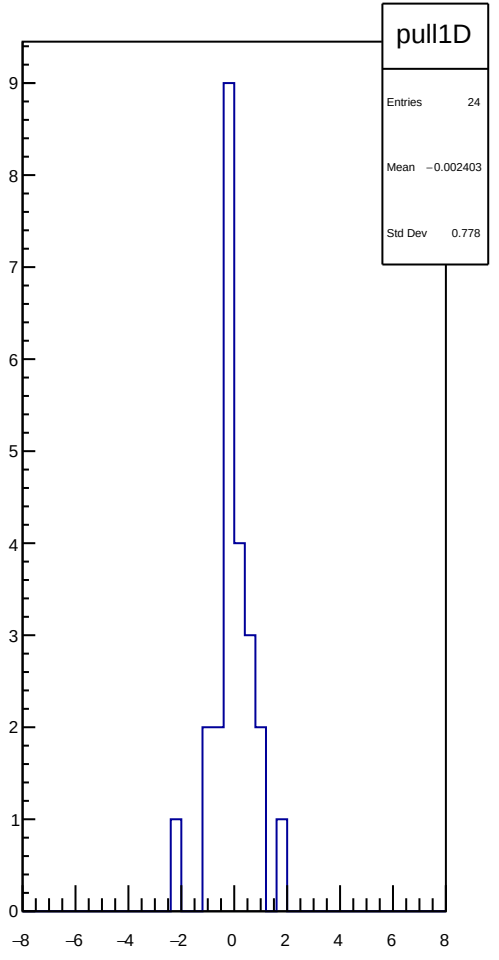

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 6.202 / 23
p0 1.059 ± 0.05713
pull
Entries 24
Mean 150.6
Std Dev 0
pull1D
Entries 24
Mean 0.01552
Std Dev 0.5081

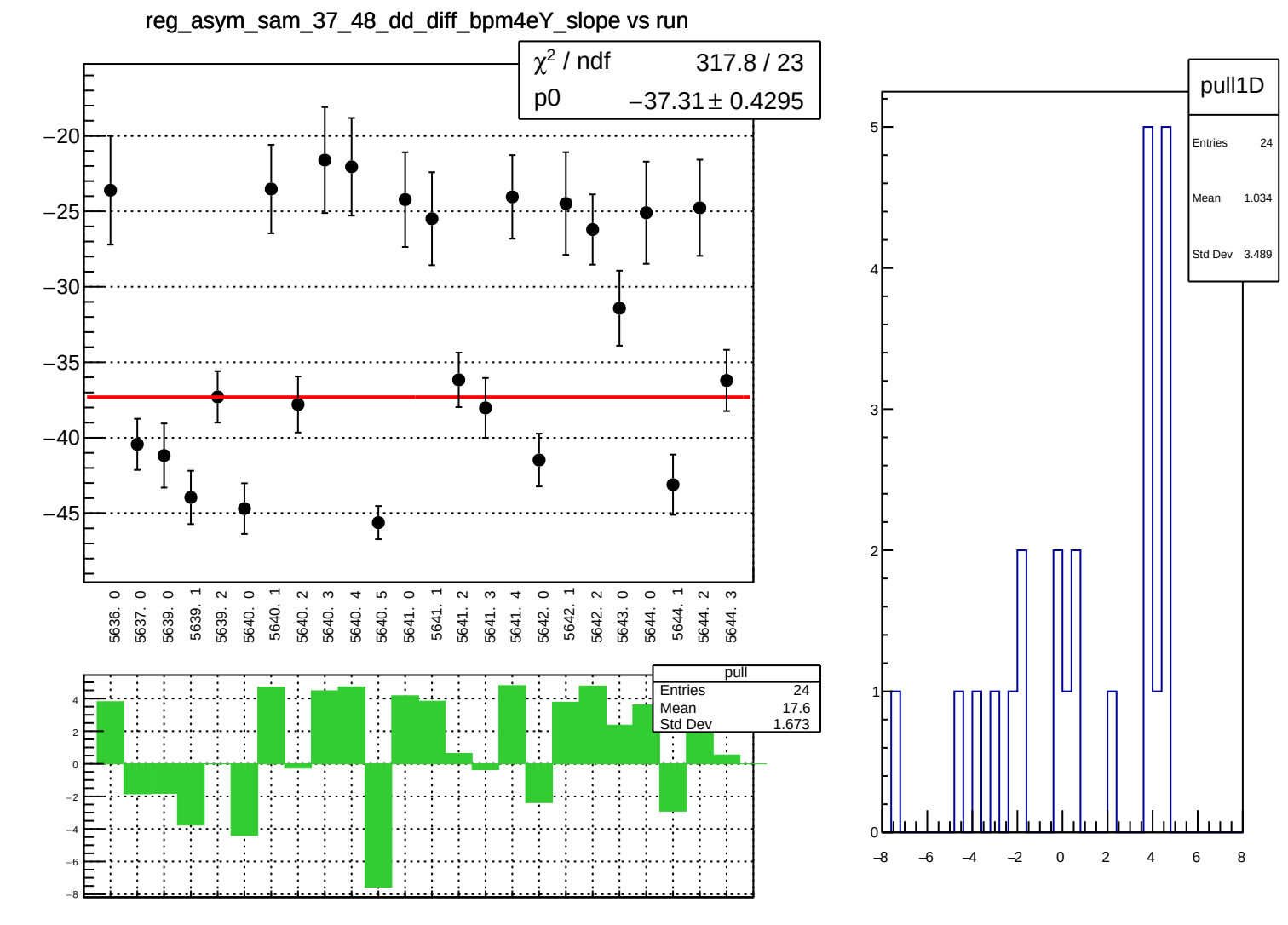

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 14.99 / 23
p0 8.855 ± 0.5813
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −526.5
Std Dev 0

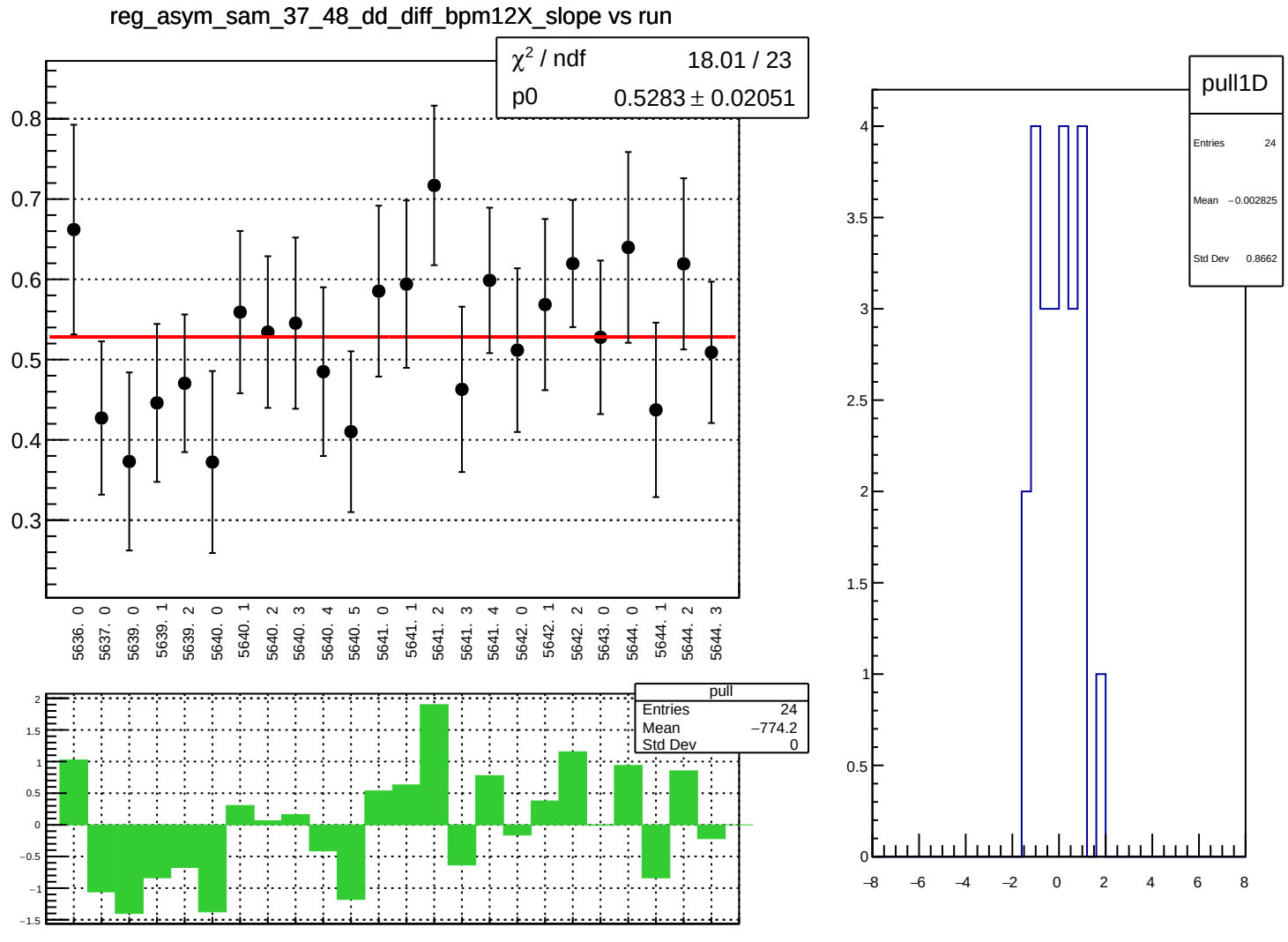

pull1D
Entries 24
Mean −0.003173
Std Dev 0.7903

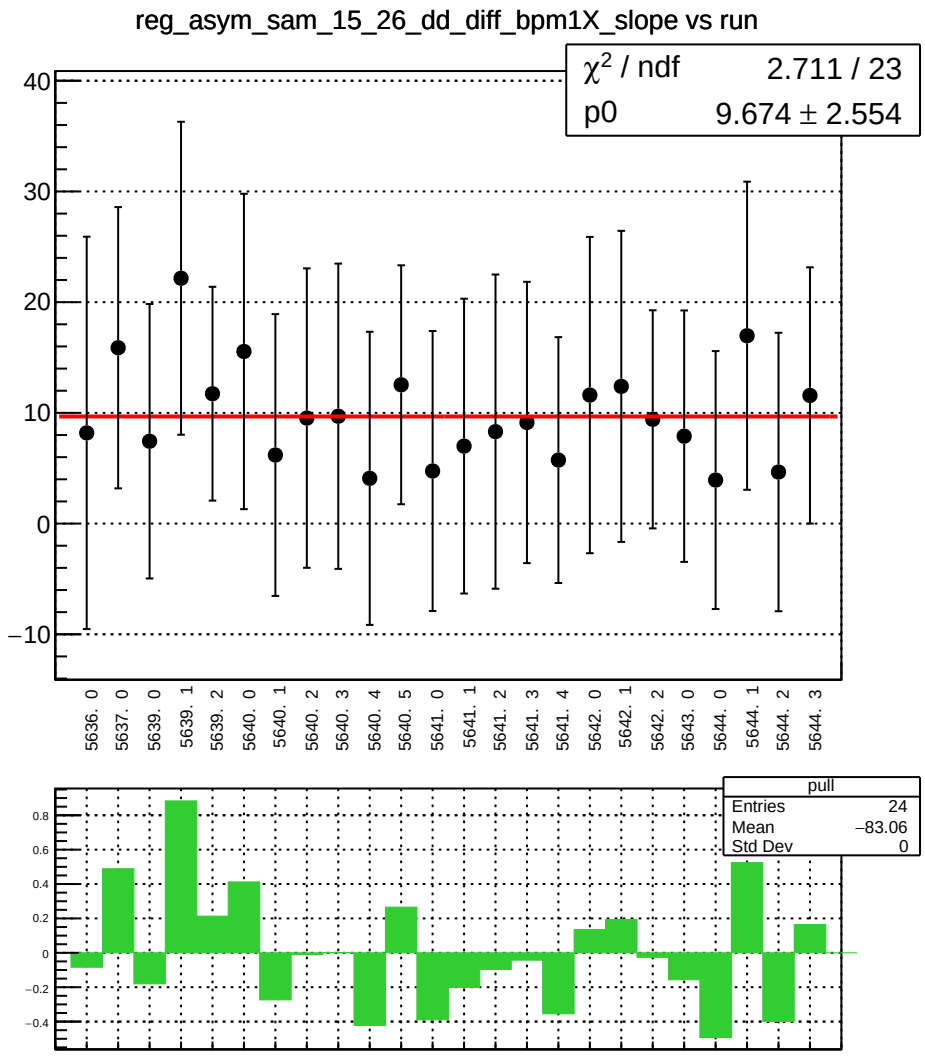

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 321.8 / 23
p0 3.354 ± 0.3383
10
5
0
−5
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 18.12
Std Dev 2.41
8
6
4
2
0
−2
−4
pull1D
Entries 24
Mean −1.478
Std Dev 2.998
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

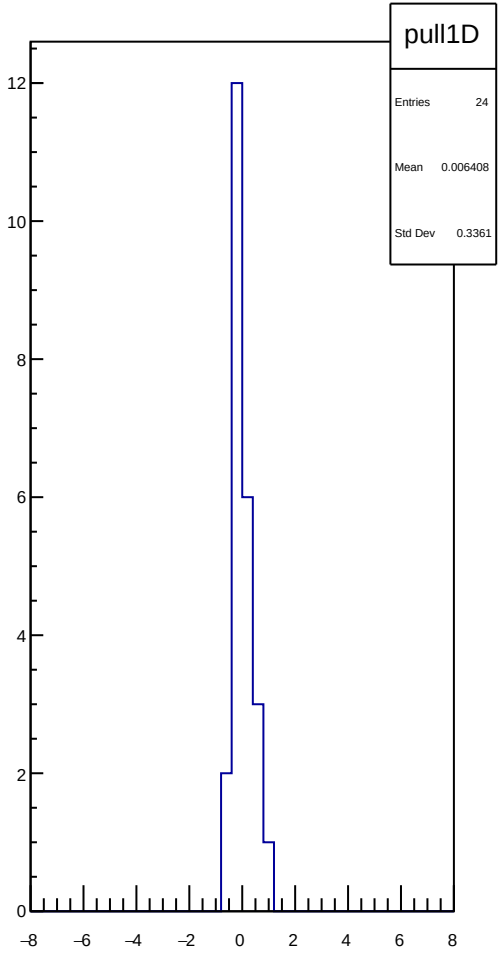

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.53 / 23
p0 −8.022 ± 0.5044
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 555.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

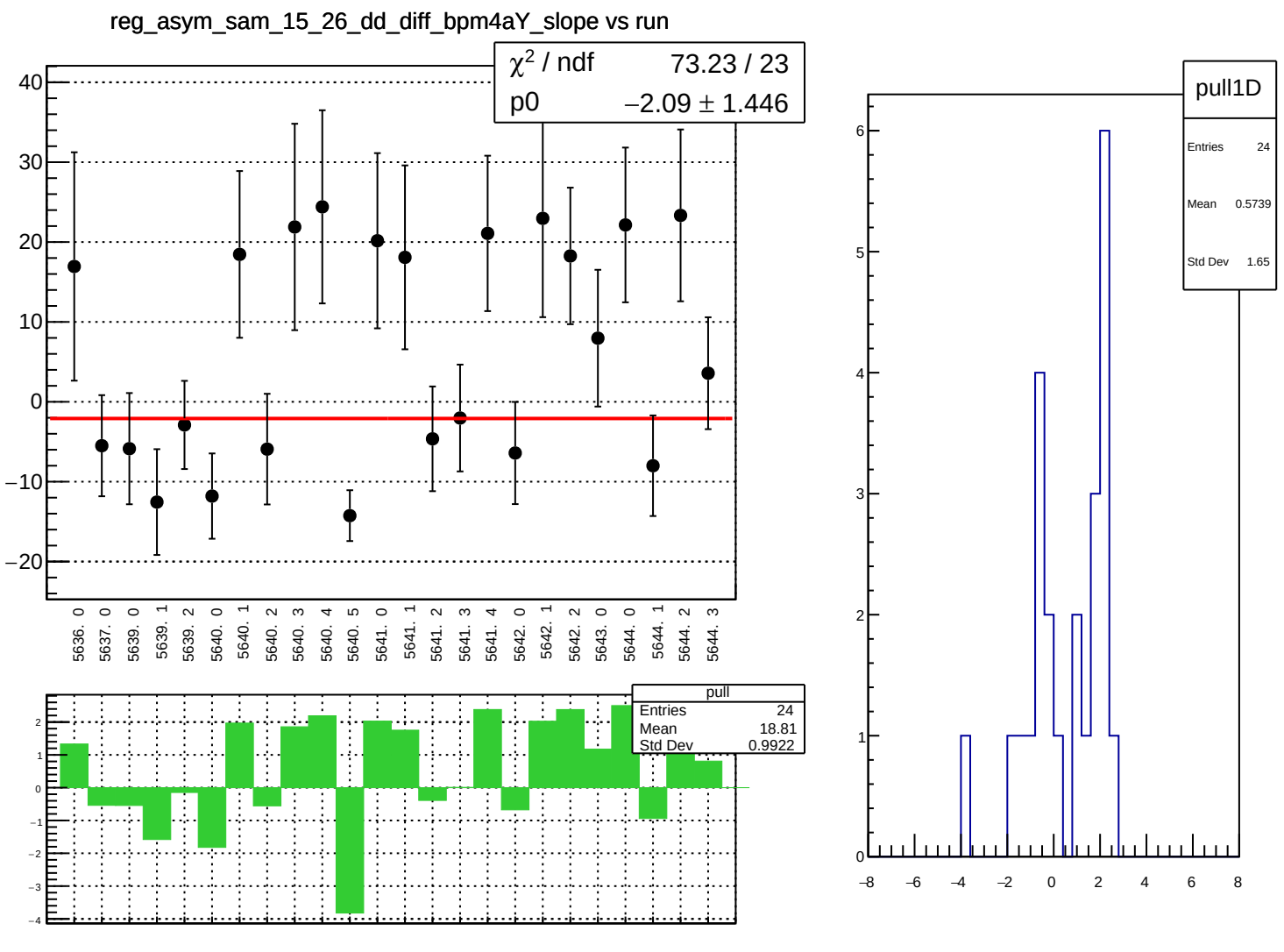

pull1D
Entries 24
Mean −0.002403
Std Dev 0.778
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

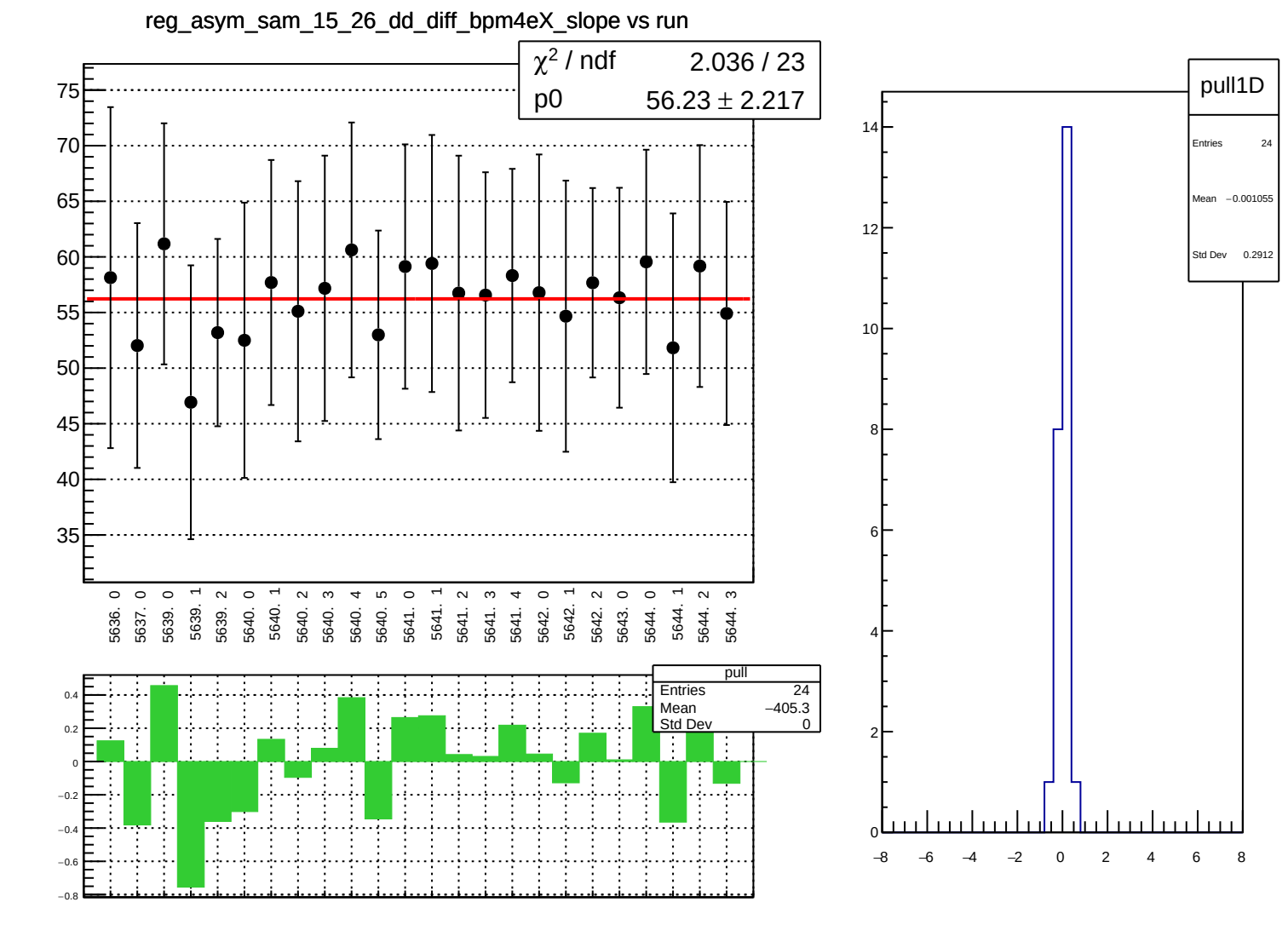

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 317.8 / 23
p0 −37.31 ± 0.4295
−20
−25
−30
−35
−40
−45
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 17.6
Std Dev 1.673
pull1D
Entries 24
Mean 1.034
Std Dev 3.489

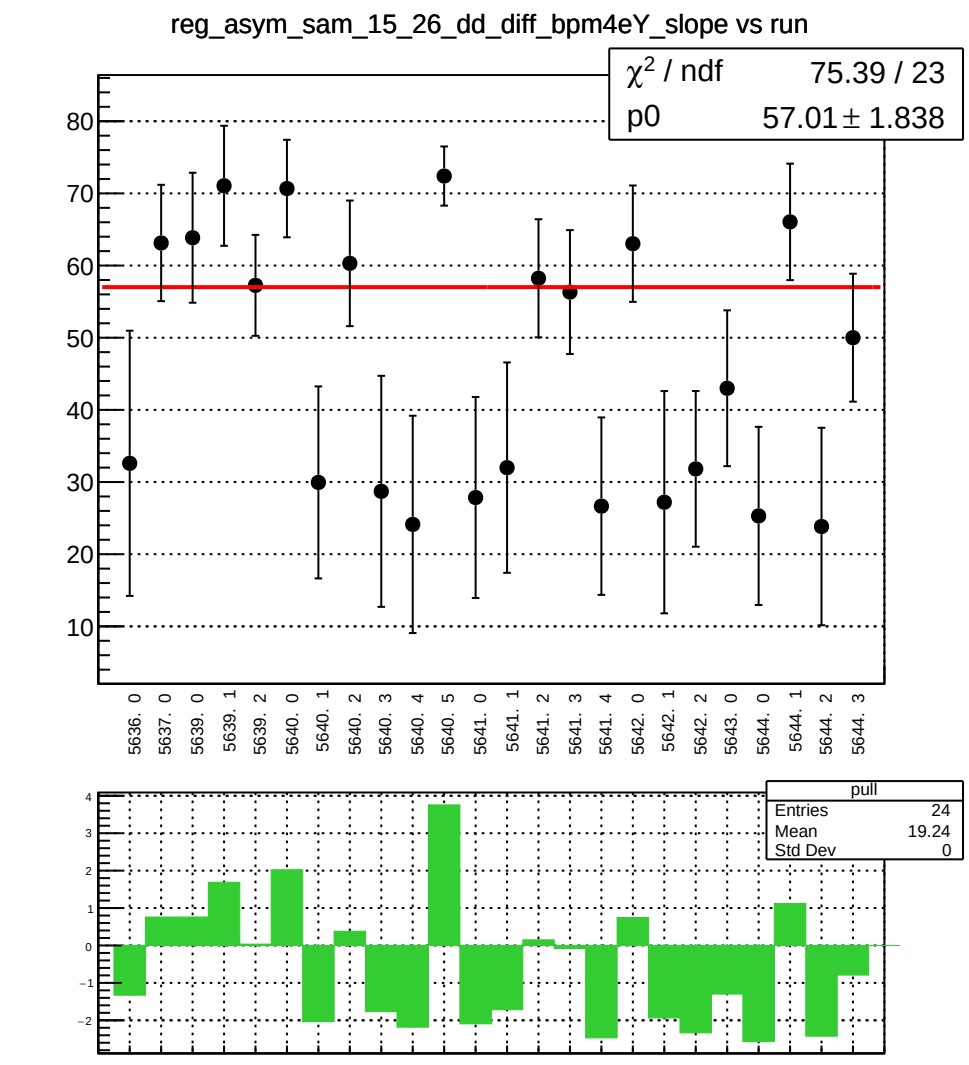

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 18.01 / 23
p0 0.5283 ± 0.02051
0.8
0.7
0.6
0.5
0.4
0.3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −774.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.002825
Std Dev 0.8662
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

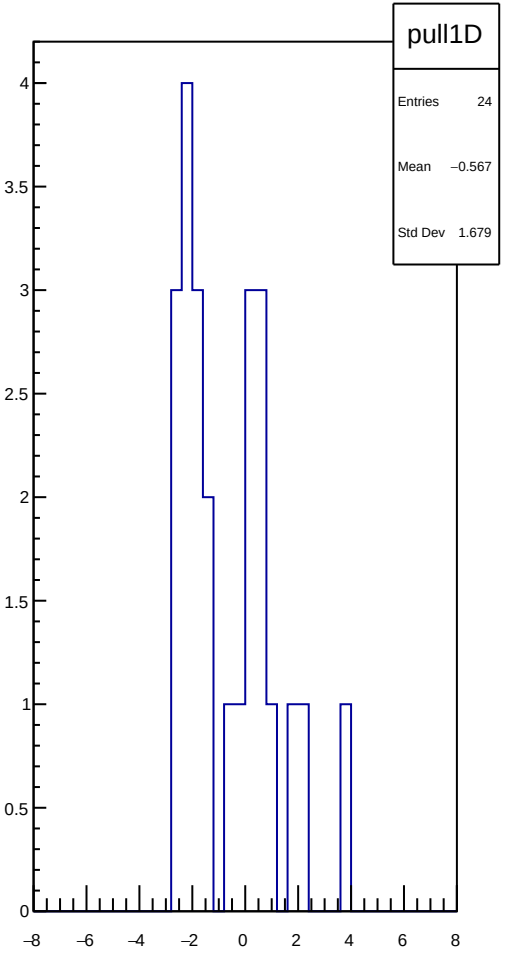

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 2.711 / 23
p0 9.674 ± 2.554
40
30
20
10
0
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −83.06
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4

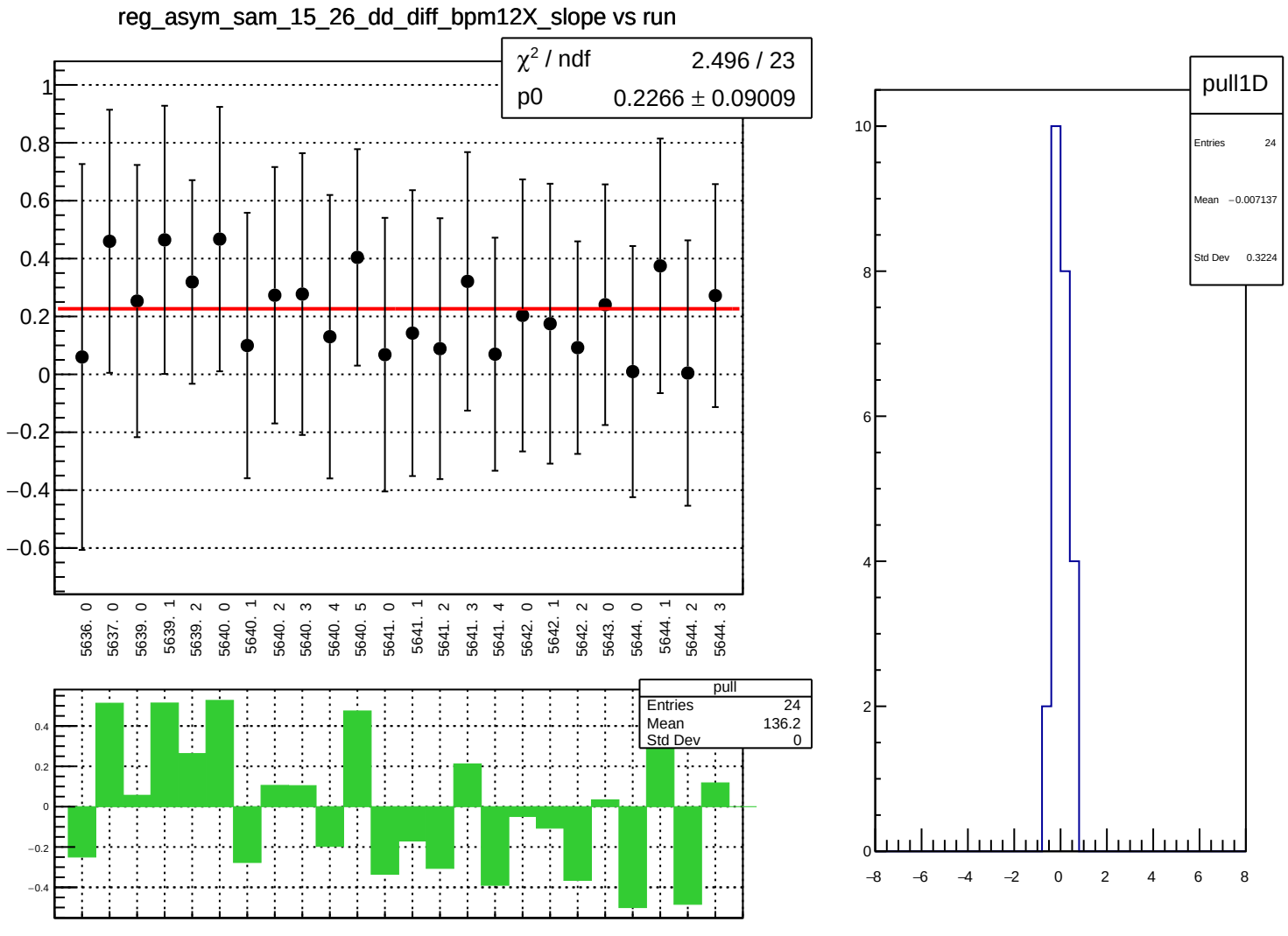

pull1D
Entries 24
Mean 0.006408
Std Dev 0.3361
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

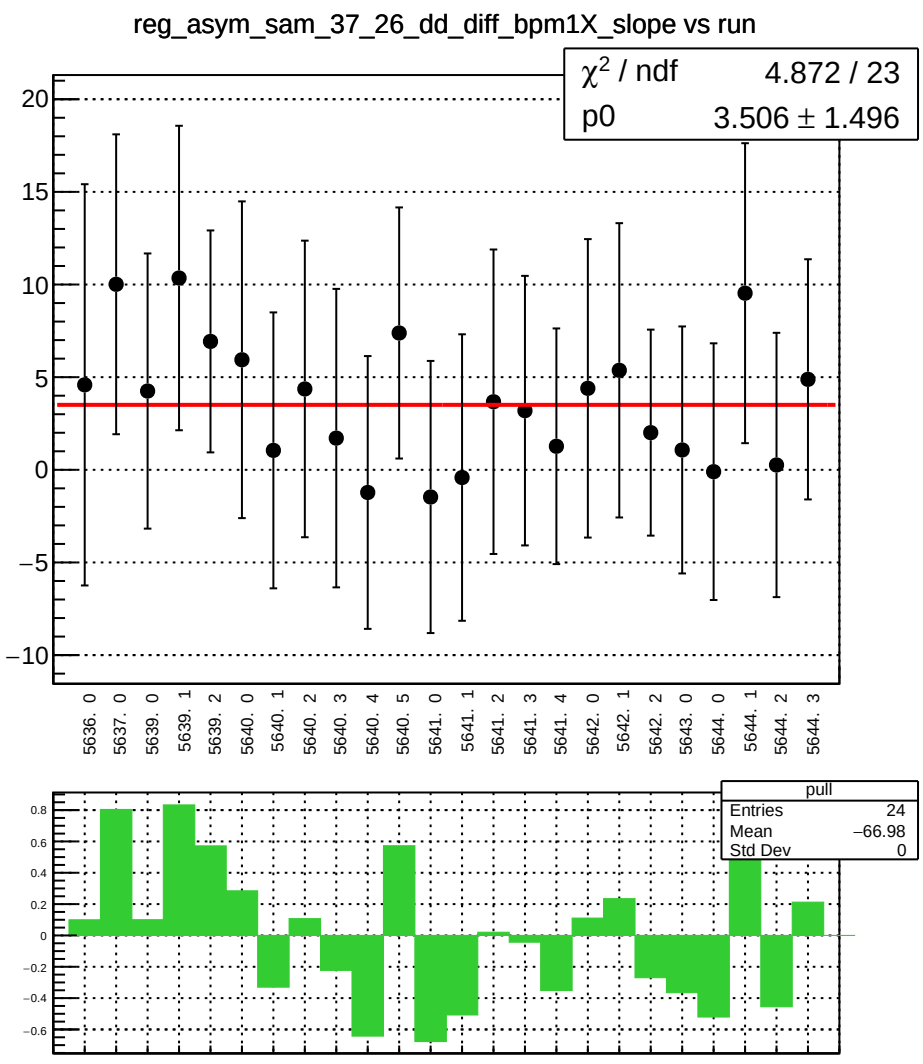

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 73.23 / 23
p0 −2.09 ± 1.446
40
30
20
10
0
−10
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 18.81
Std Dev 0.9922
2
1
0
−1
−2
−3
−4
pull1D
Entries 24
Mean 0.5739
Std Dev 1.65
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

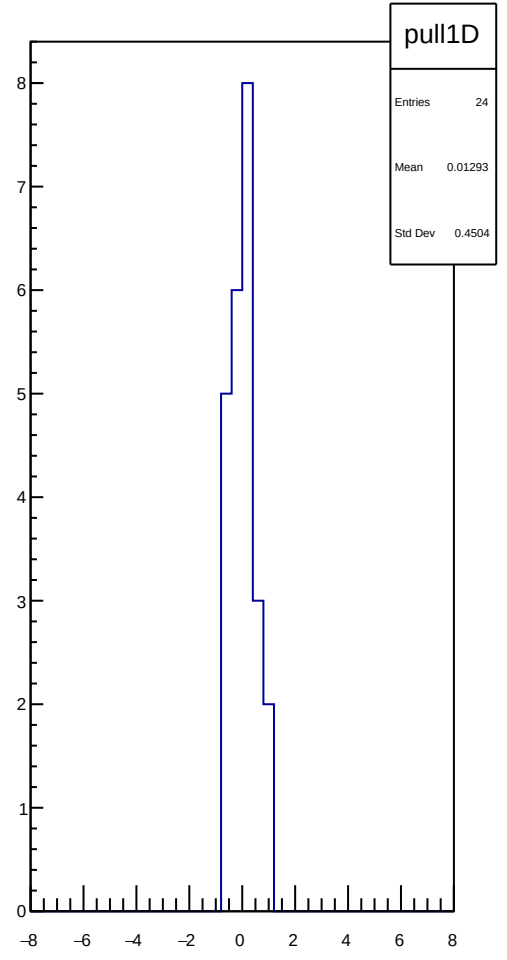

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.036 / 23
p0 56.23 ± 2.217
75
70
65
60
55
50
45
40
35
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −405.3
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean −0.001055
Std Dev 0.2912
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

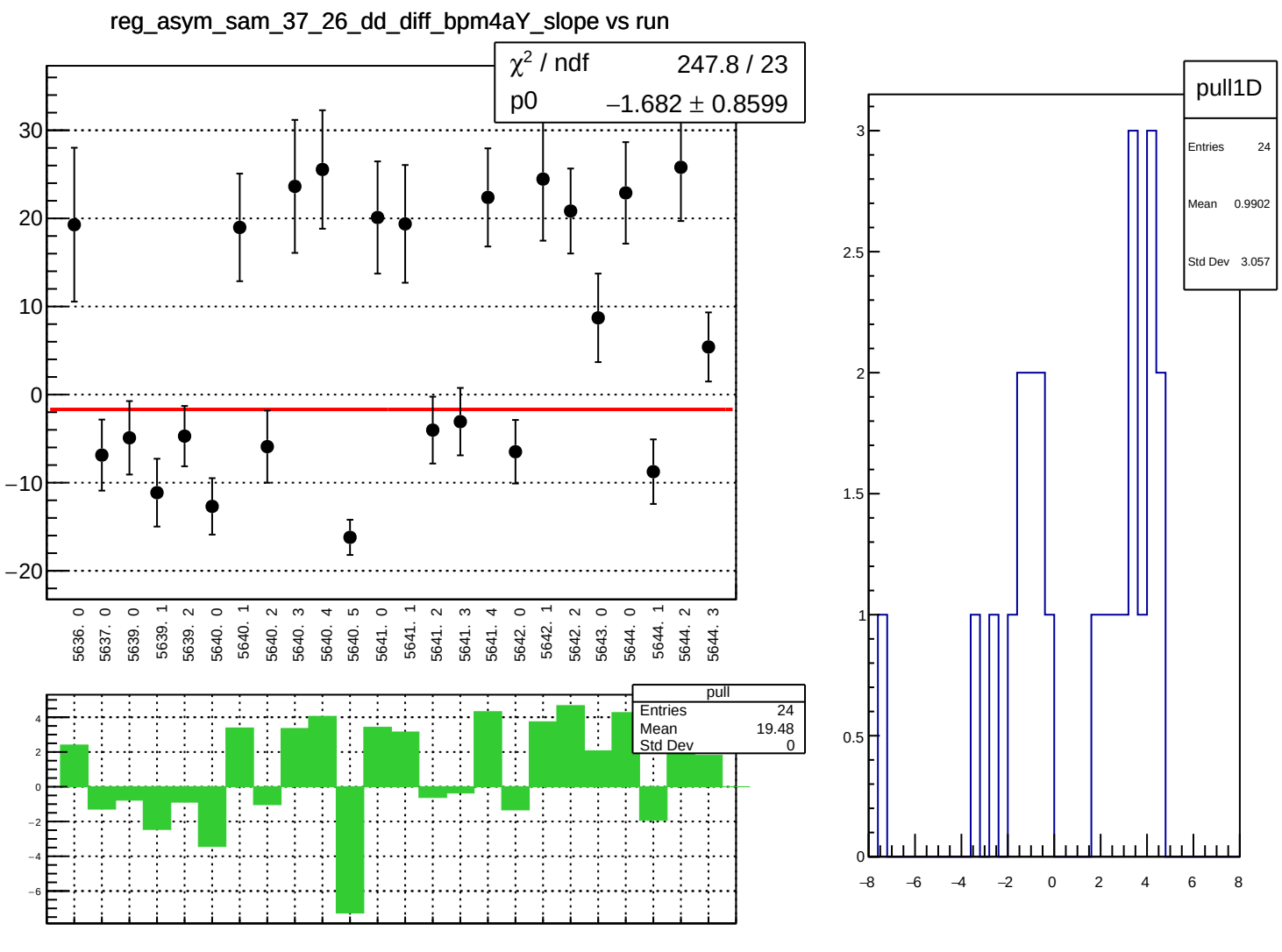

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 75.39 / 23
p0 57.01 ± 1.838
80
70
60
50
40
30
20
10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 19.24
Std Dev 0
4
3
2
1
0
−1
−2

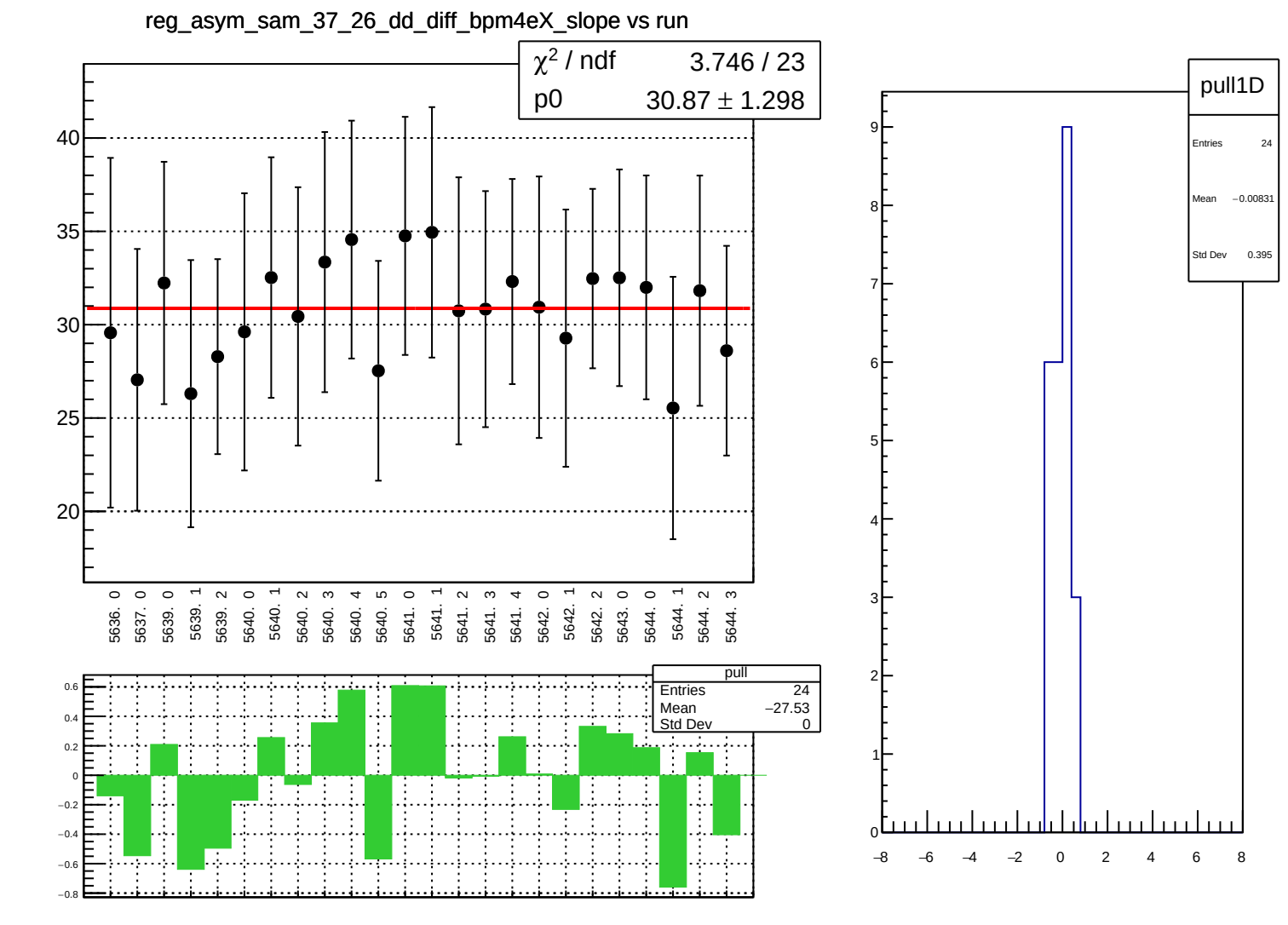

pull1D
Entries 24
Mean −0.567
Std Dev 1.679
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

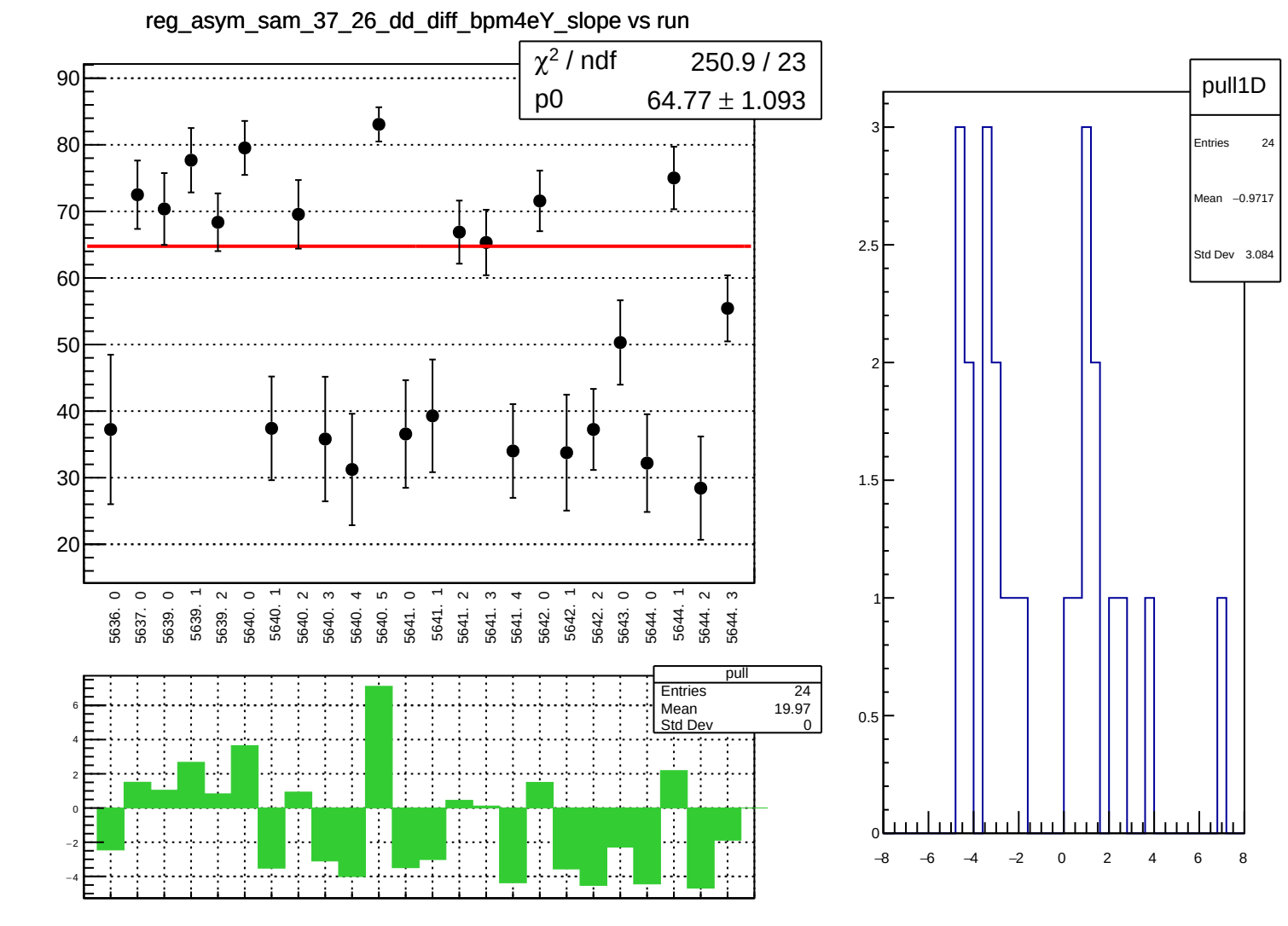

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 2.496 / 23
p0 0.2266 ± 0.09009
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 136.2
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 24
Mean −0.007137
Std Dev 0.3224
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

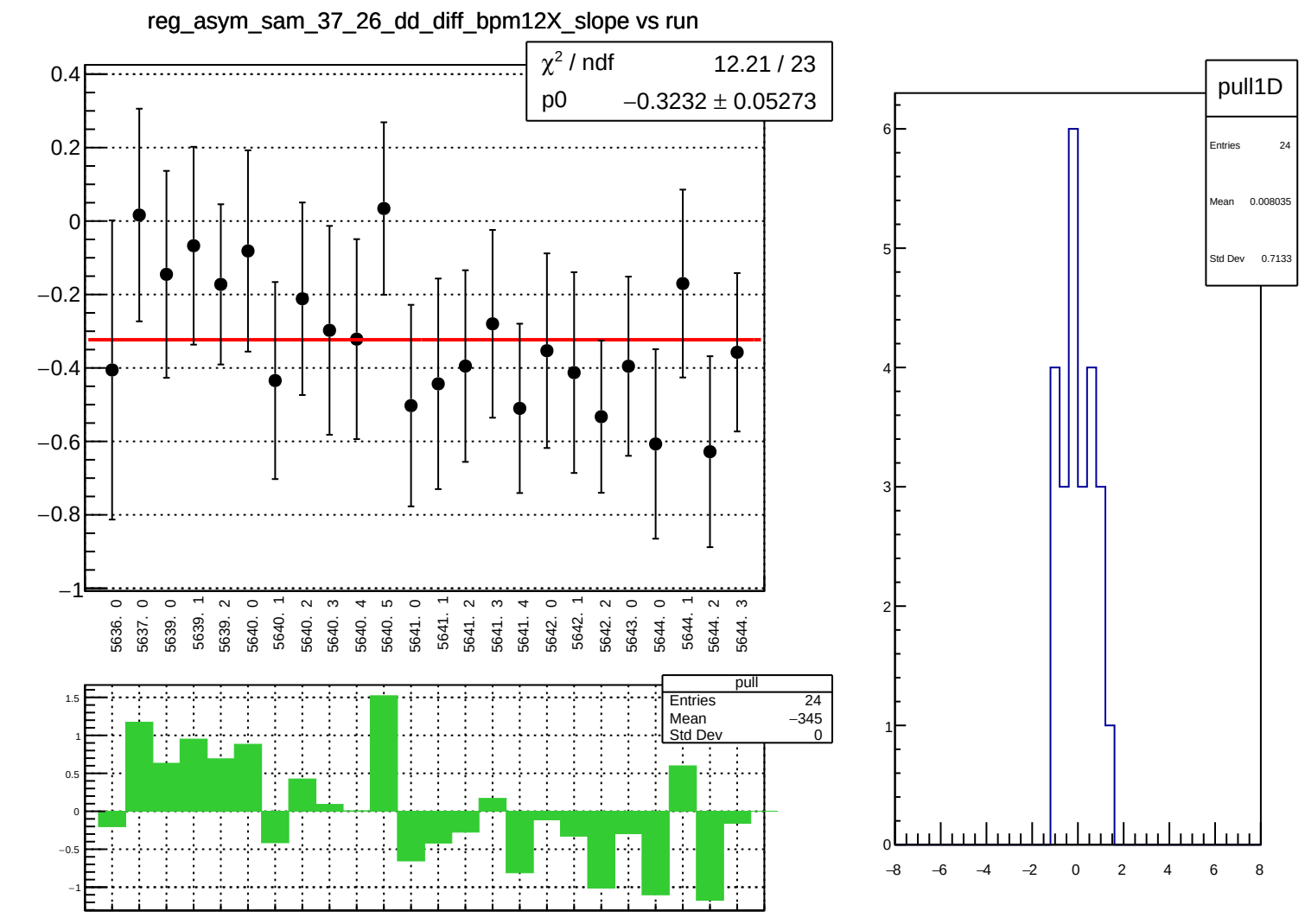

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 4.872 / 23
p0 3.506 ± 1.496
20
15
10
5
0
−5
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −66.98
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

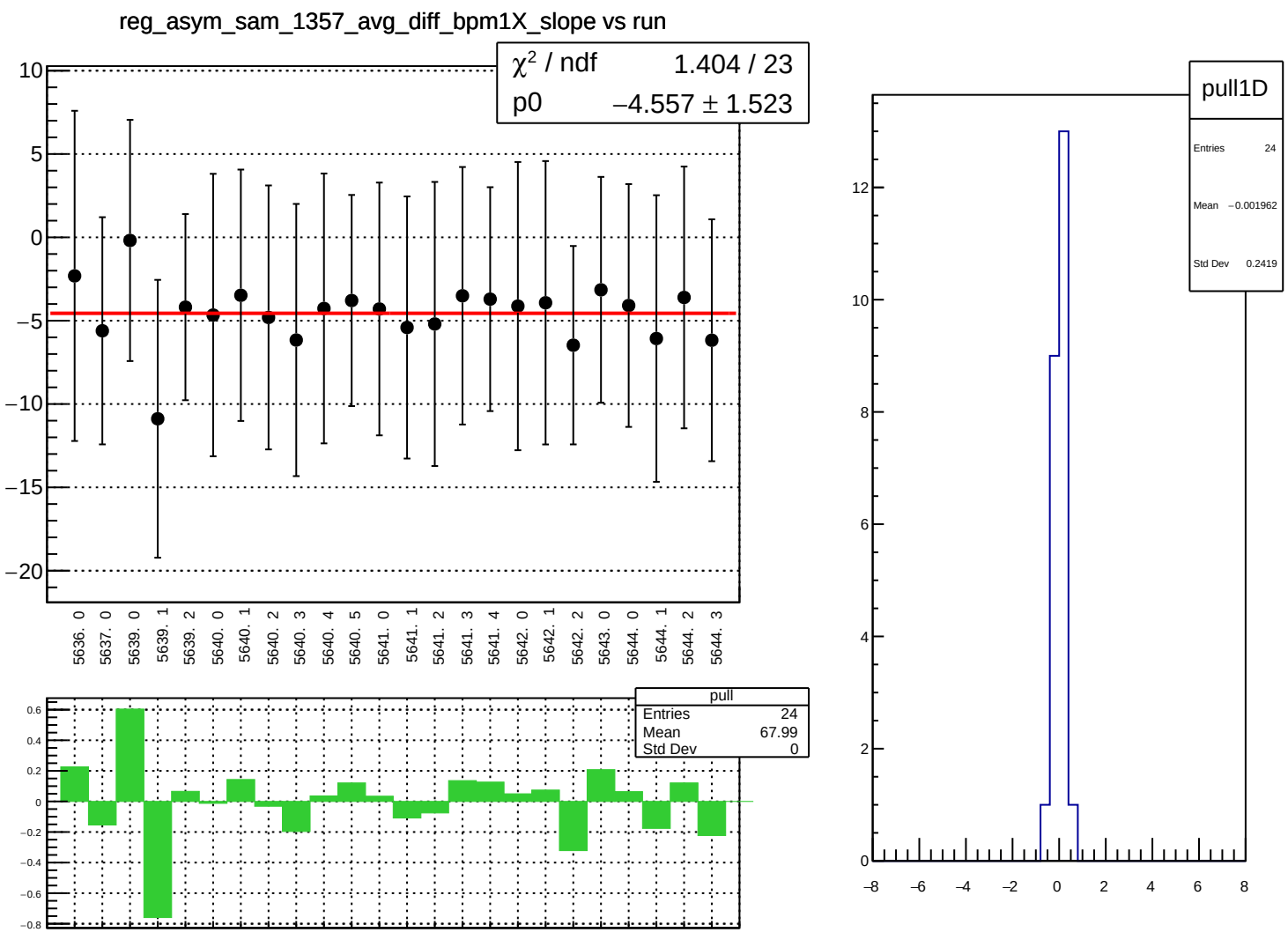

pull1D
Entries 24
Mean 0.01293
Std Dev 0.4504
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

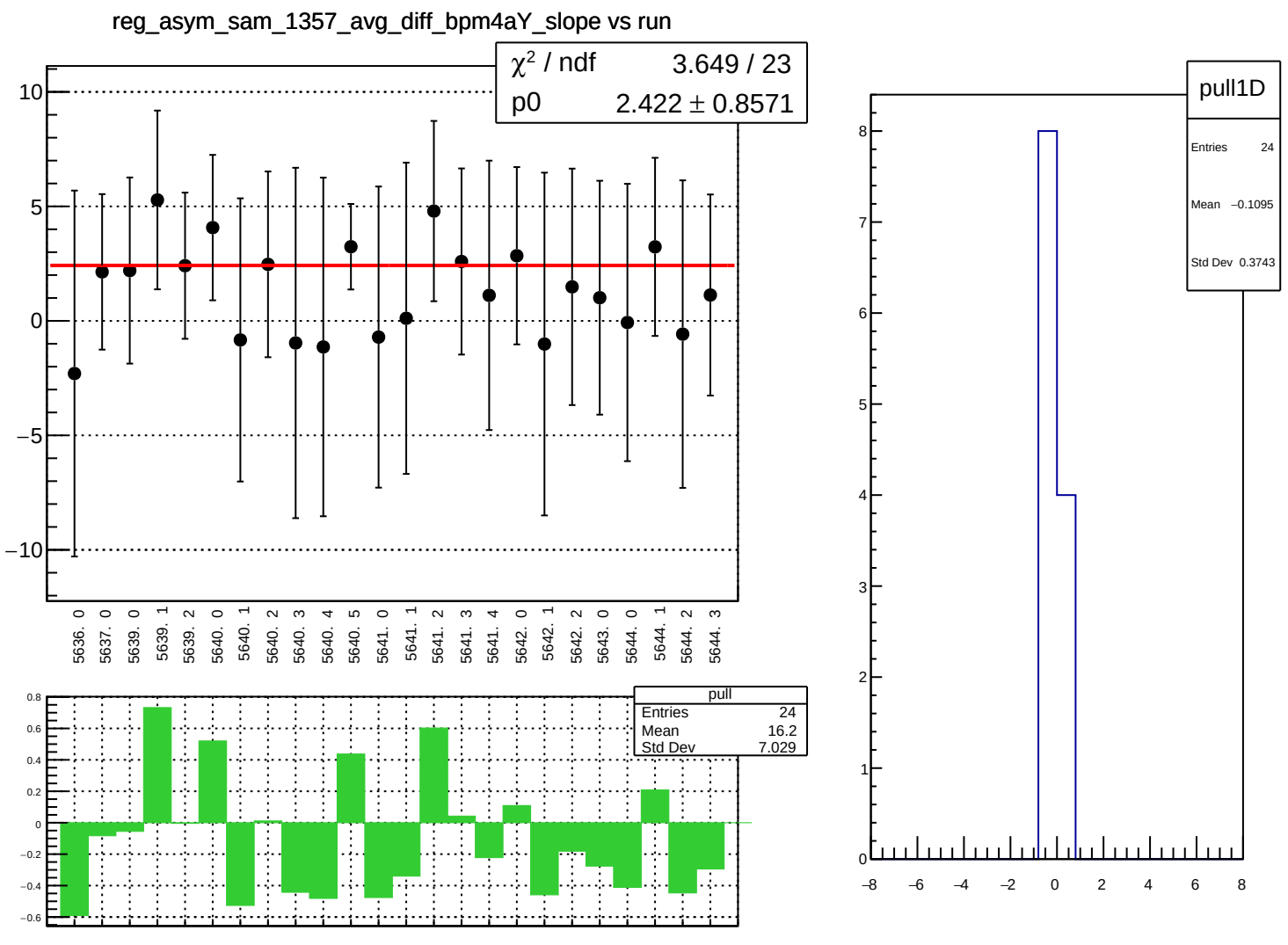

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 247.8 / 23
p0 −1.682 ± 0.8599
30
20
10
0
−10
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 19.48
Std Dev 0
4
2
0
−2
−4
−6
pull1D
Entries 24
Mean 0.9902
Std Dev 3.057
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

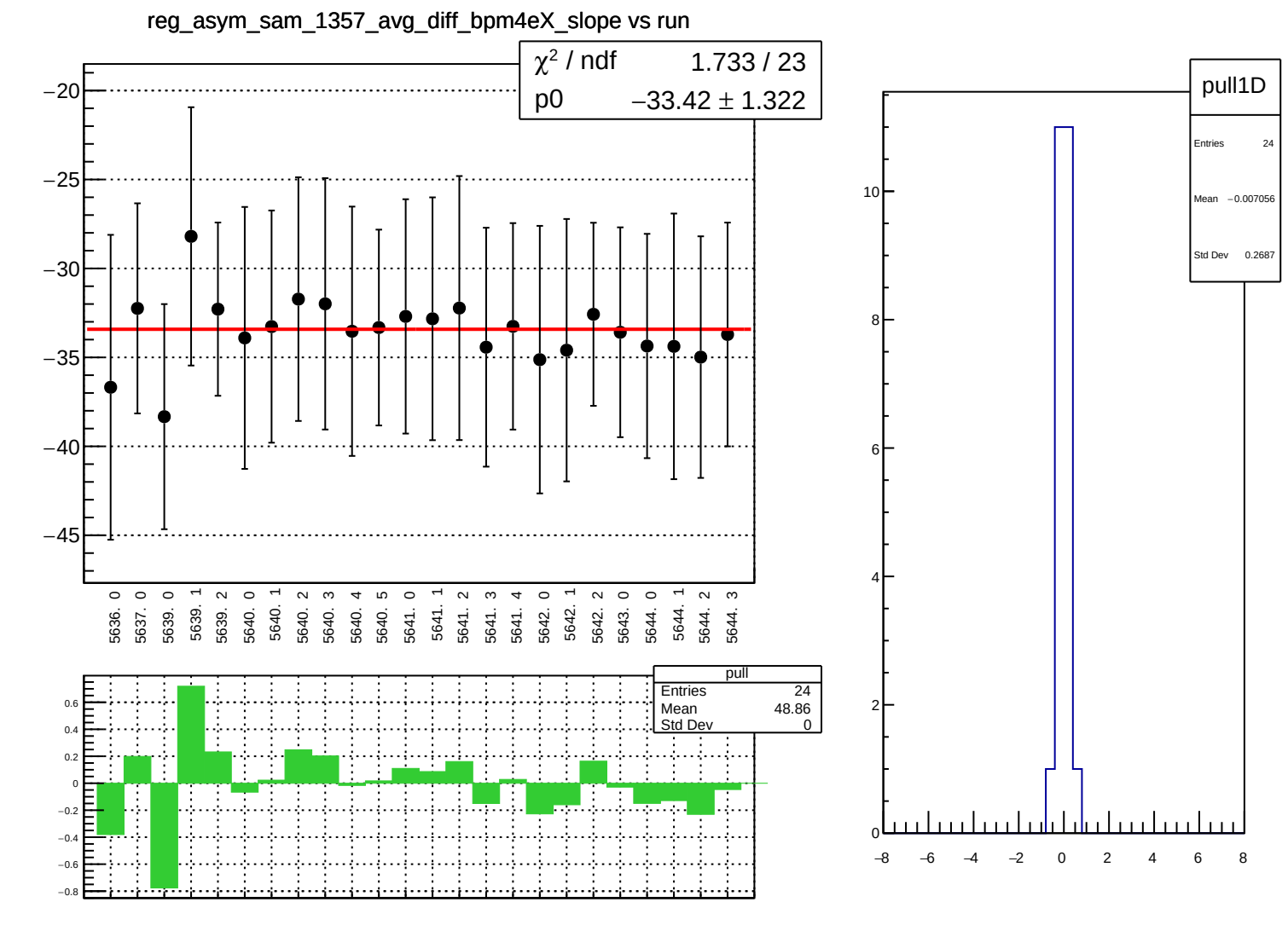

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.746 / 23
p0 30.87 ± 1.298
40
35
30
25
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −27.53
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean −0.00831
Std Dev 0.395
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

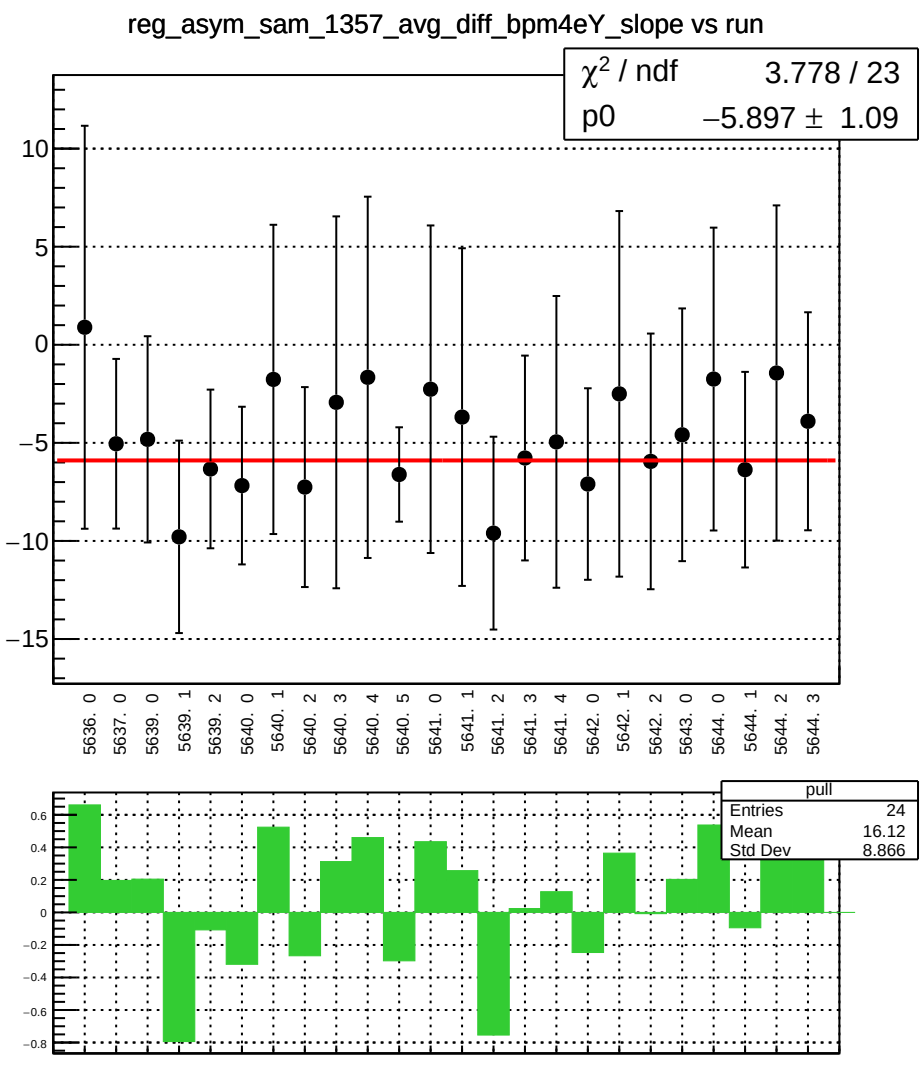

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 250.9 / 23
p0 64.77 ± 1.093
90
80
70
60
50
40
30
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 19.97
Std Dev 0
6
4
2
0
−2
−4
pull1D
Entries 24
Mean −0.9717
Std Dev 3.084
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

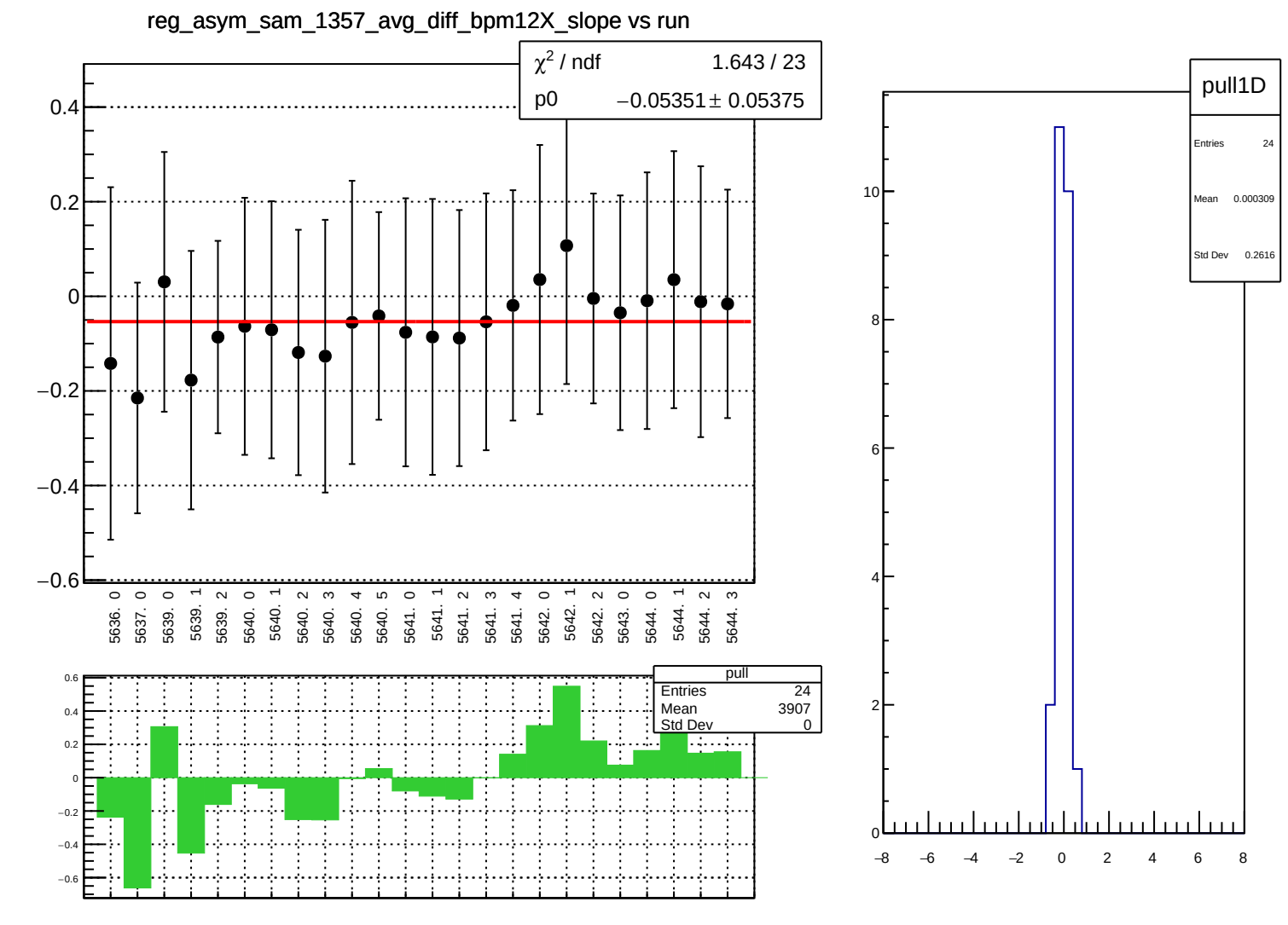

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 12.21 / 23
p0 −0.3232 ± 0.05273
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −345
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.008035
Std Dev 0.7133
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

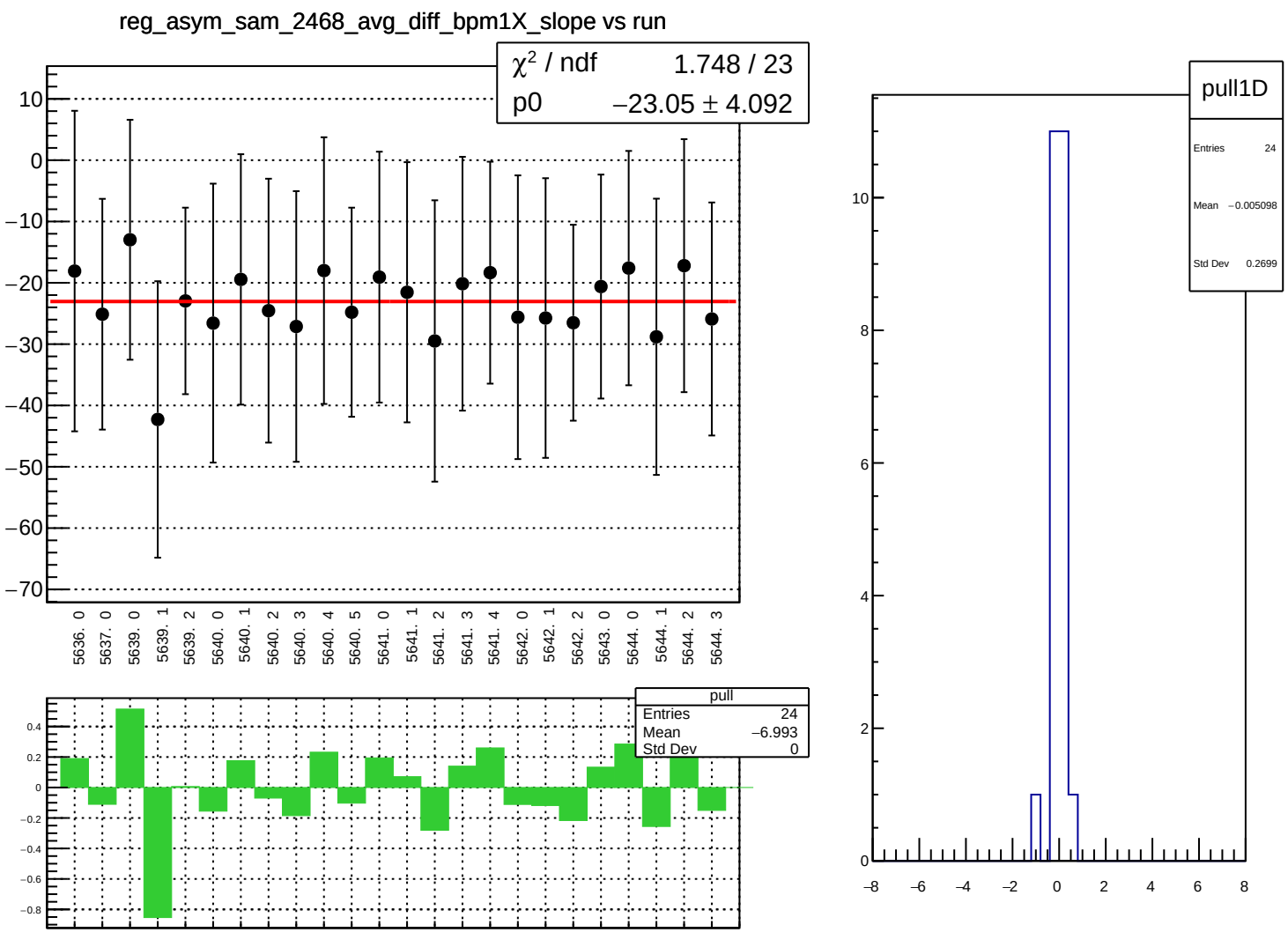

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 1.404 / 23
p0 −4.557 ± 1.523
10
5
0
−5
−10
−15
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 67.99
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean −0.001962
Std Dev 0.2419
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

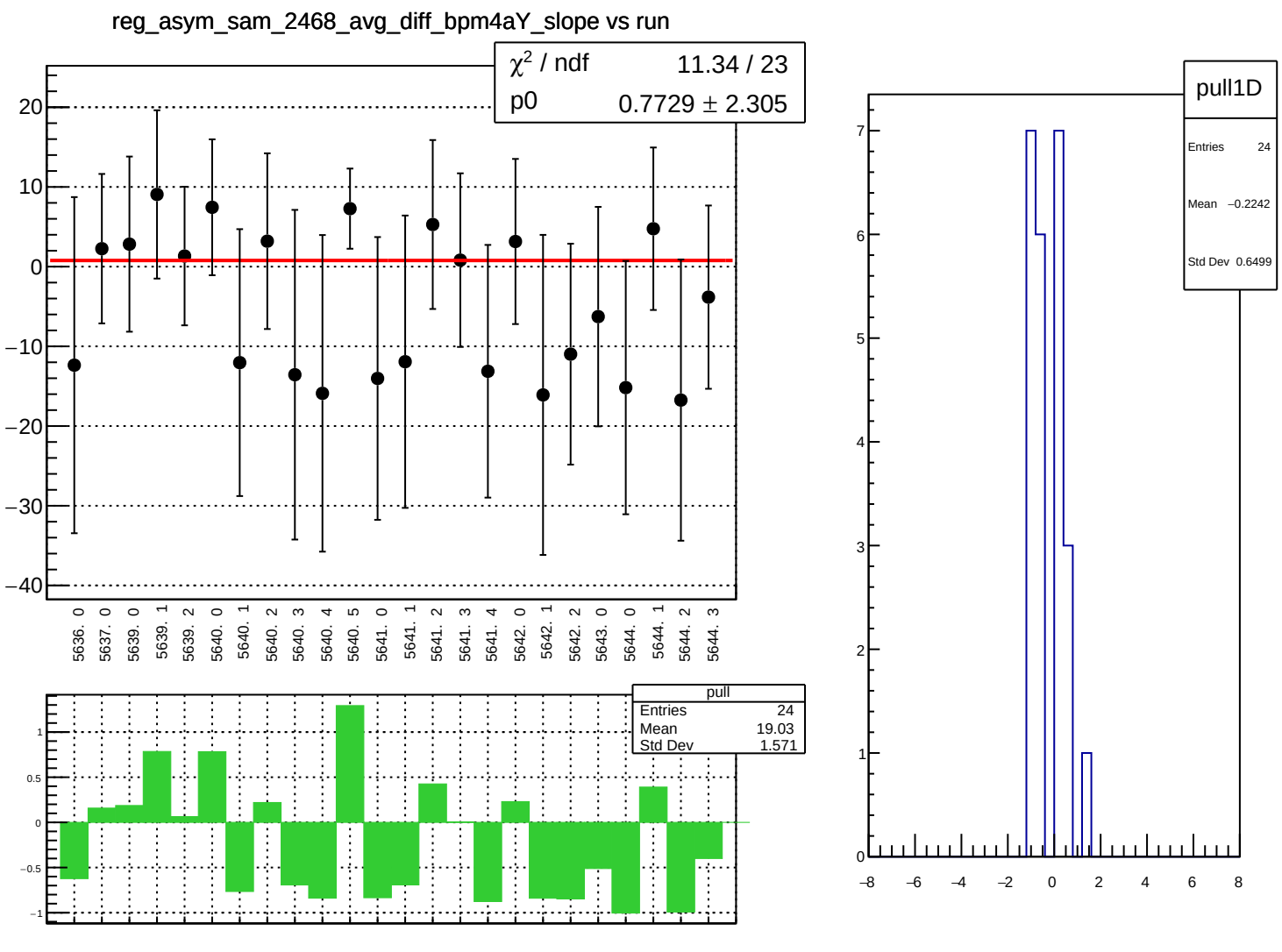

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.649 / 23
p0 2.422 ± 0.8571
10
5
0
−5
−10
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 16.2
Std Dev 7.029
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 24
Mean −0.1095
Std Dev 0.3743
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

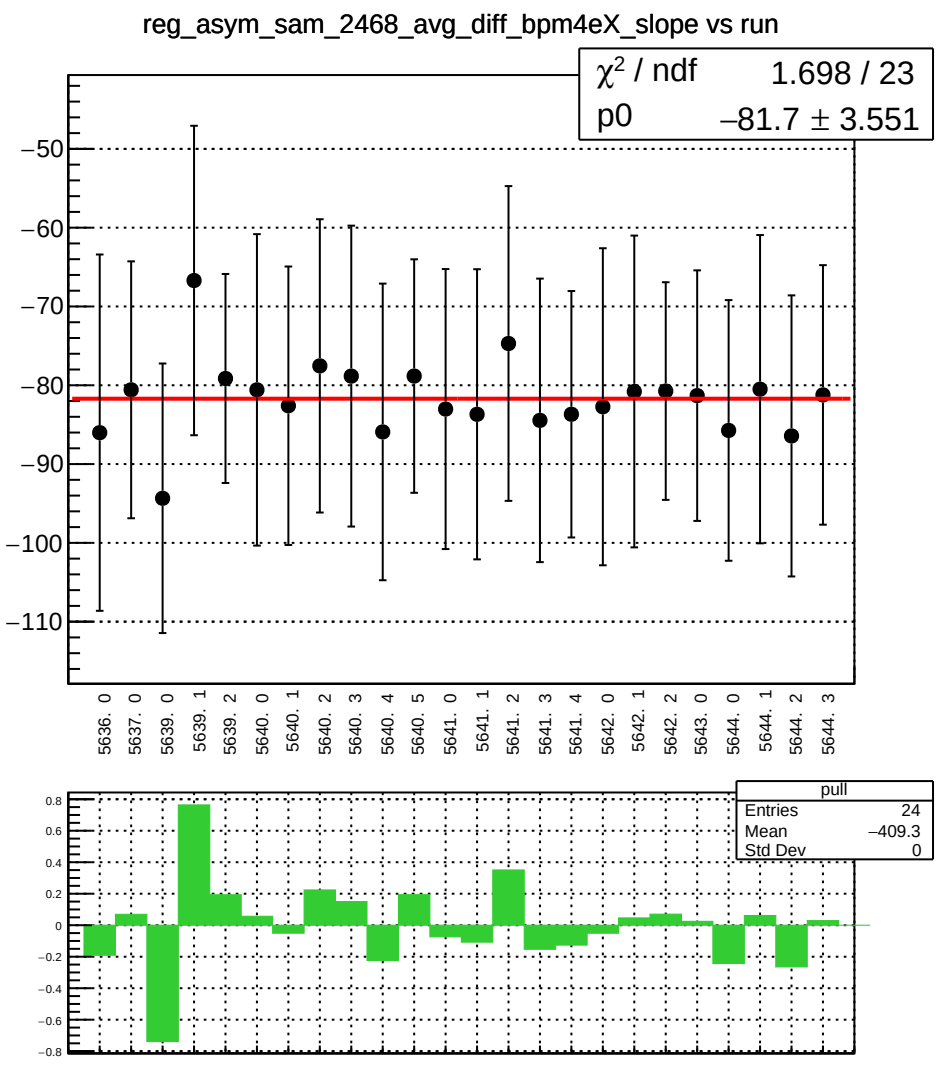

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.733 / 23
p0 −33.42 ± 1.322
−20
−25
−30
−35
−40
−45
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 48.86
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean −0.007056
Std Dev 0.2687
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

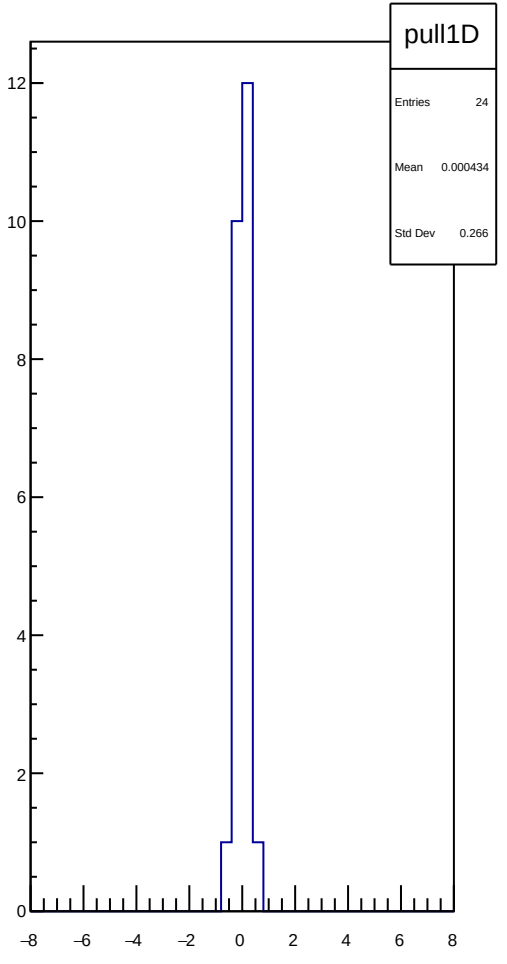

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.778 / 23
p0 −5.897 ± 1.09
10
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 16.12
Std Dev 8.866
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean 0.09587
Std Dev 0.385
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

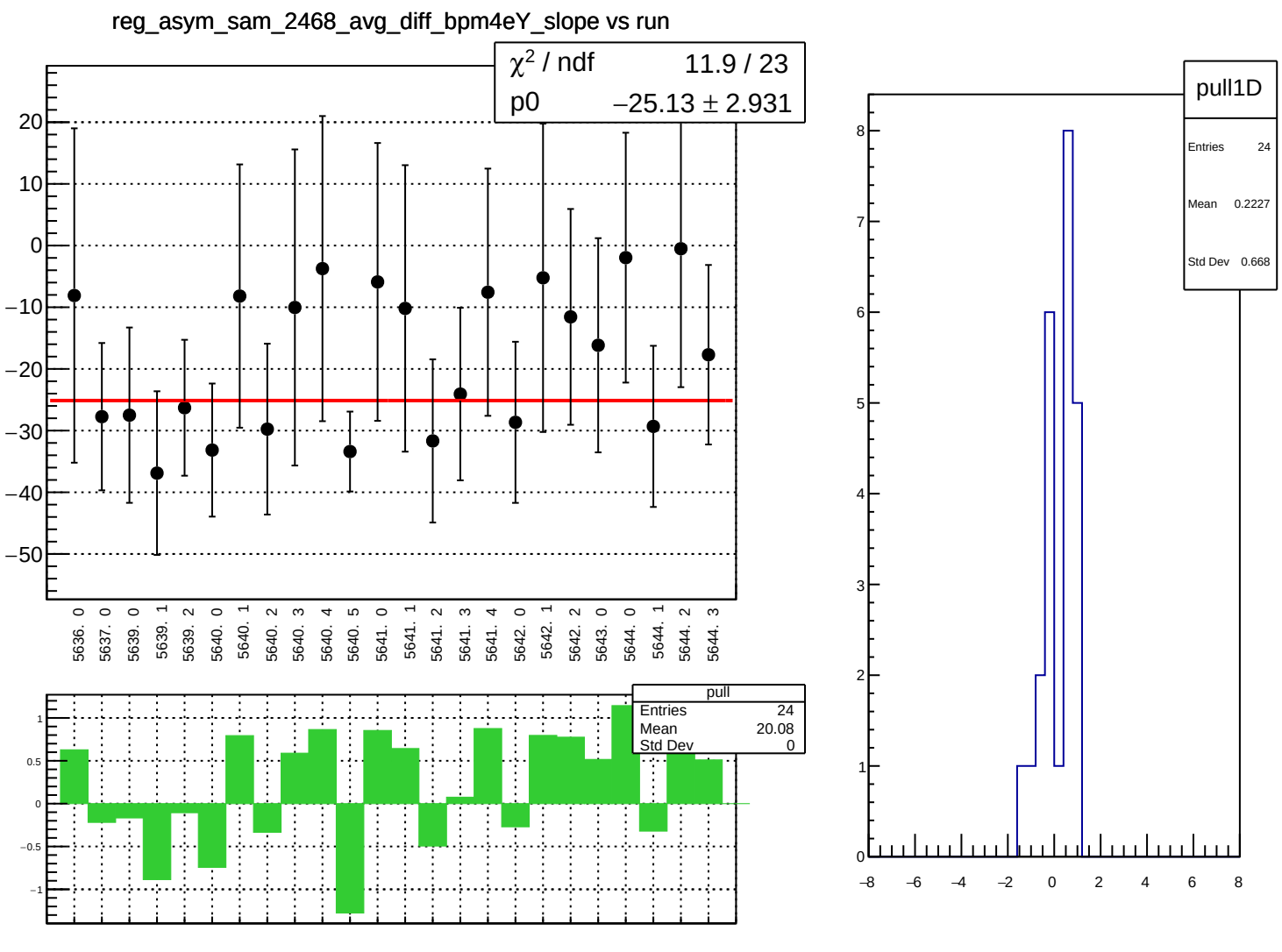

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 1.643 / 23
p0 −0.05351 ± 0.05375
0.4
0.2
0
−0.2
−0.4
−0.6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 3907
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 24
Mean 0.000309
Std Dev 0.2616
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

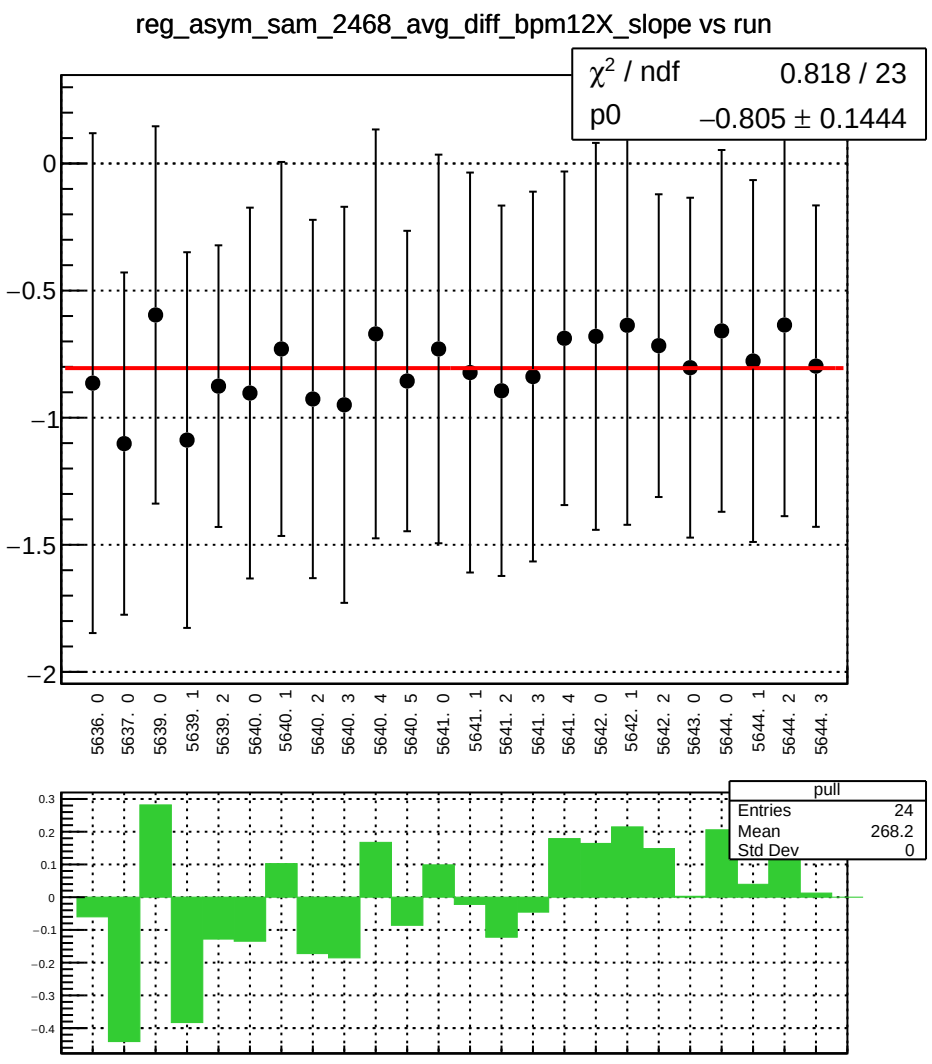

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 1.748 / 23
p0 −23.05 ± 4.092
10
0
−10
−20
−30
−40
−50
−60
−70
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −6.993
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean −0.005098
Std Dev 0.2699
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

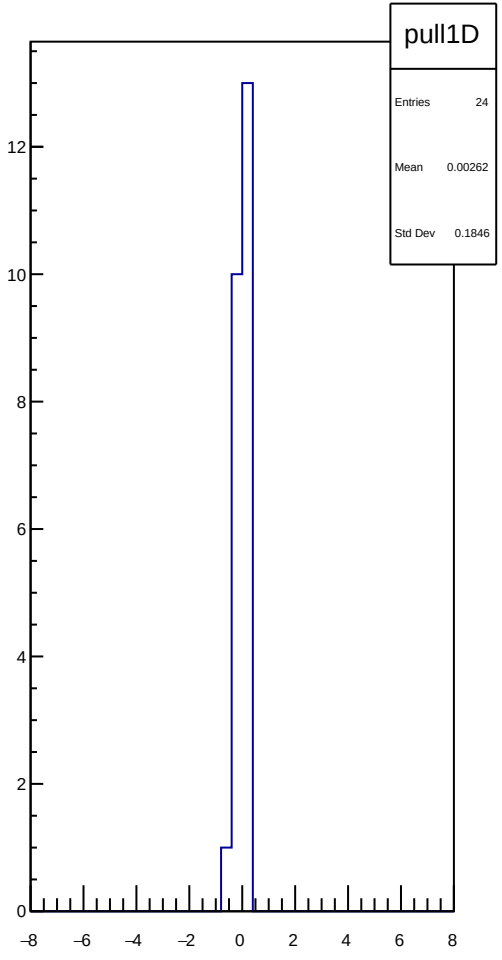

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.34 / 23
p0 0.7729 ± 2.305
20
10
0
−10
−20
−30
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 19.03
Std Dev 1.571
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.2242
Std Dev 0.6499
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

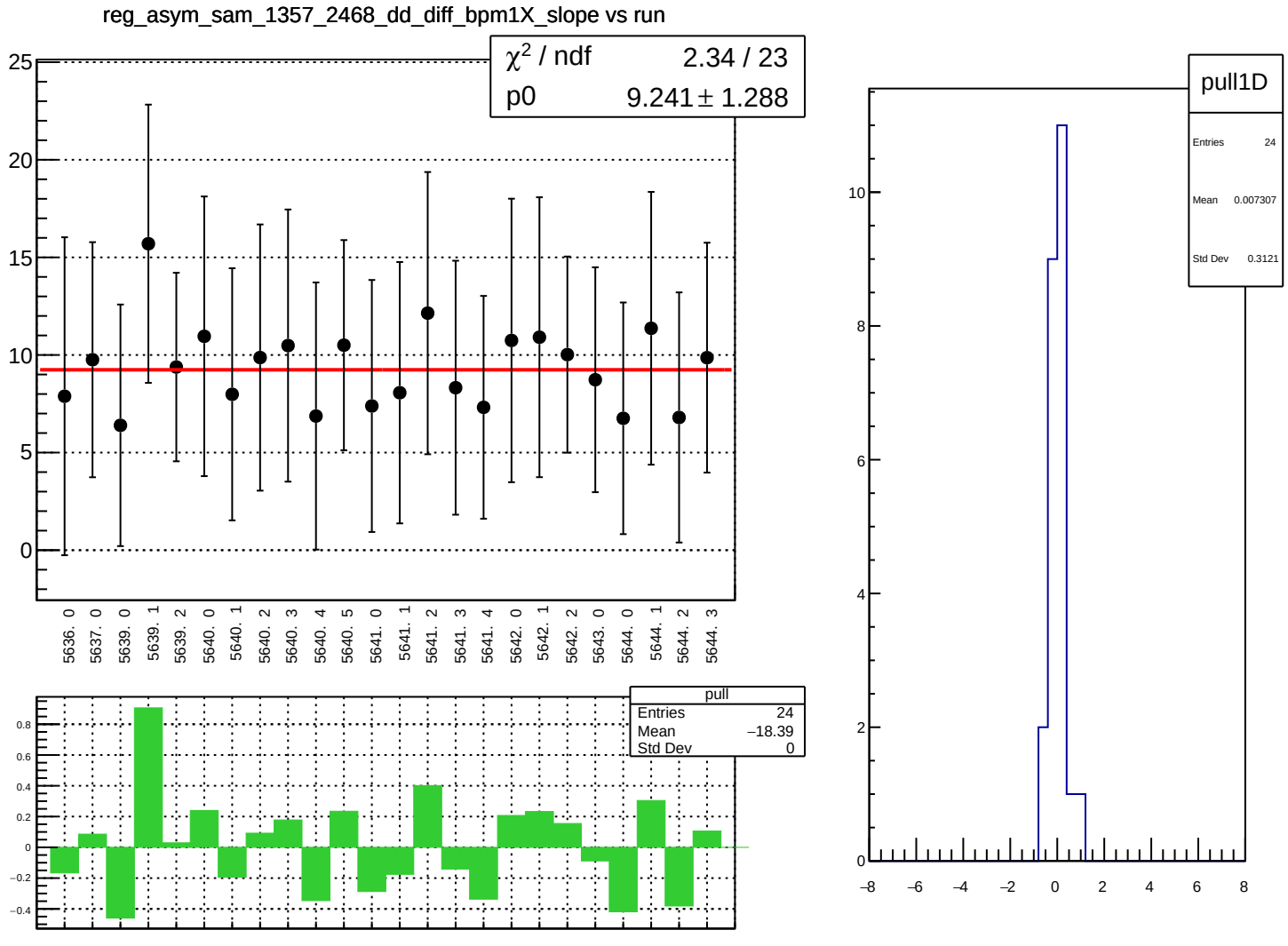

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.698 / 23
p0 −81.7 ± 3.551
−50
−60
−70
−80
−90
−100
−110
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −409.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

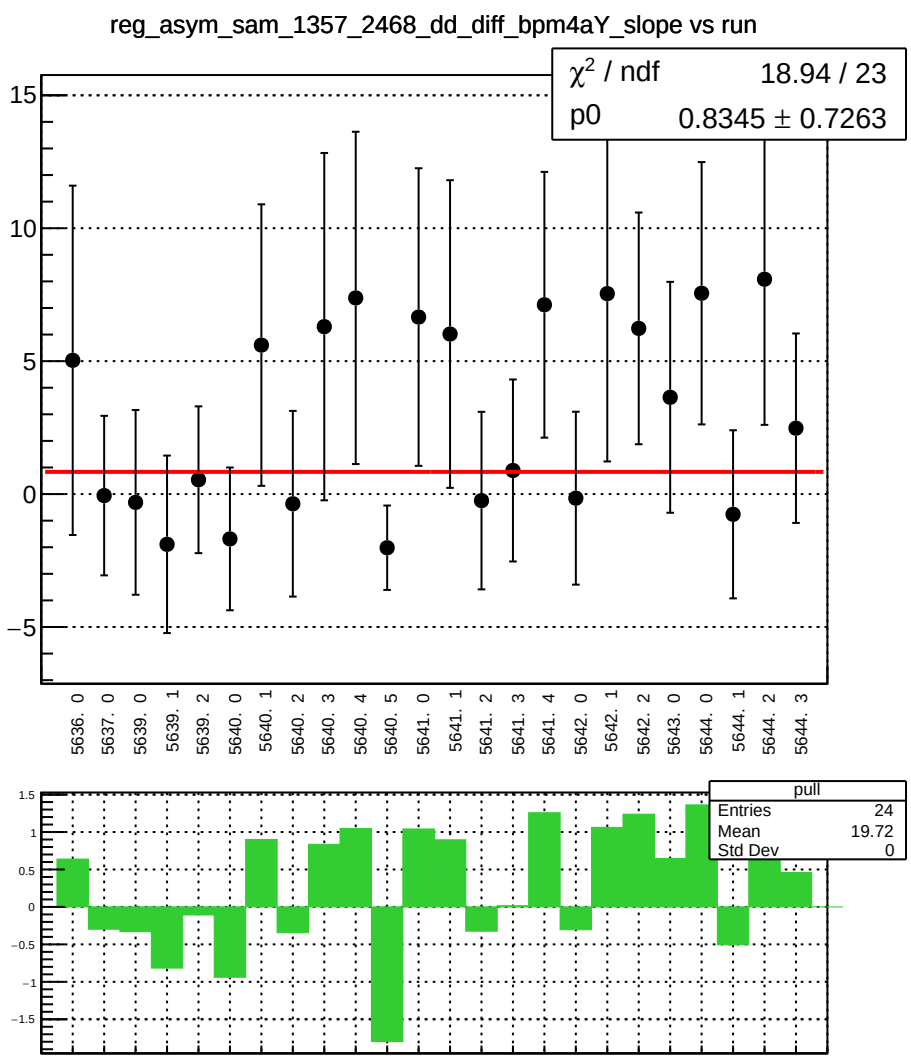

pull1D
Entries 24
Mean 0.000434
Std Dev 0.266
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

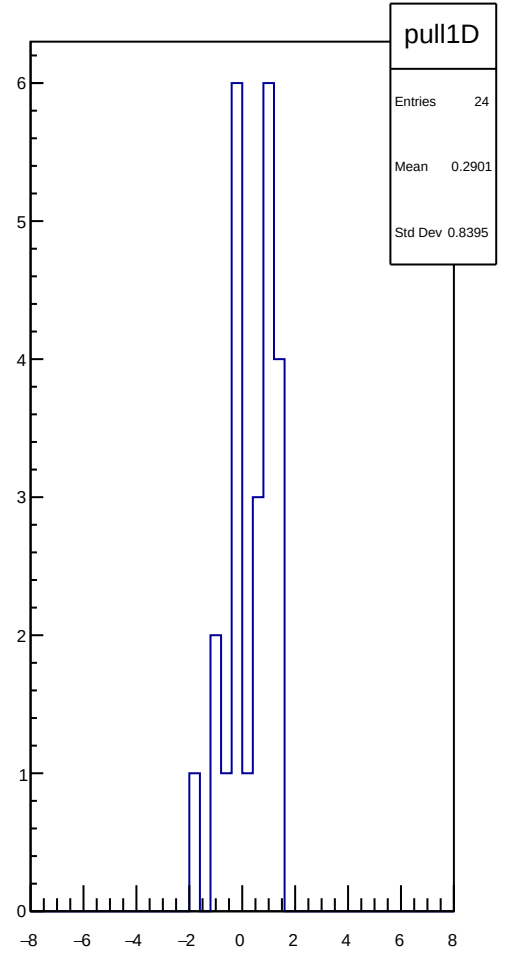

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.9 / 23
p0 −25.13 ± 2.931
20
10
0
−10
−20
−30
−40
−50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 20.08
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.2227
Std Dev 0.668
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

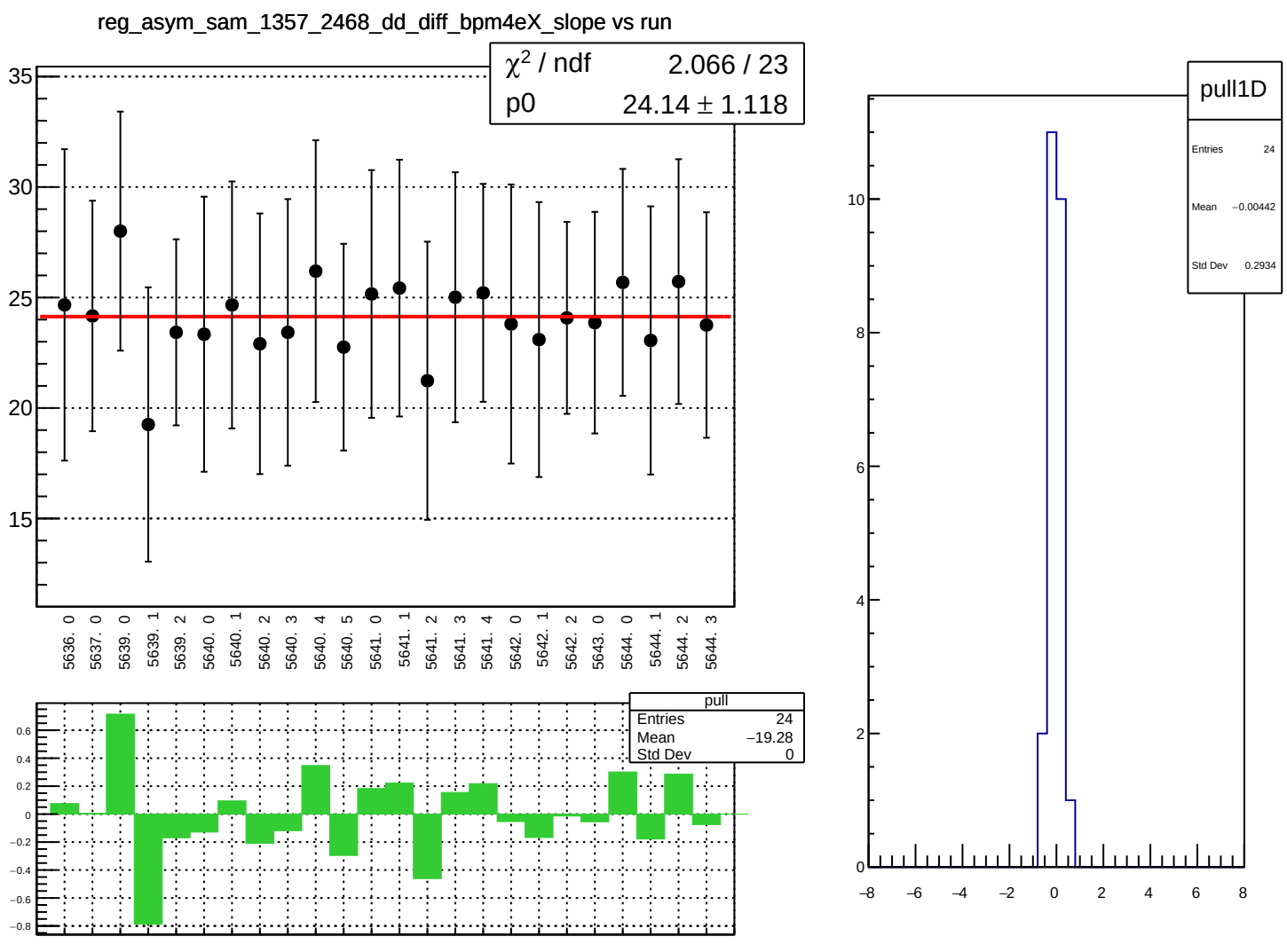

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 0.818 / 23
p0 −0.805 ± 0.1444
0
−0.5
−1
−1.5
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 268.2
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

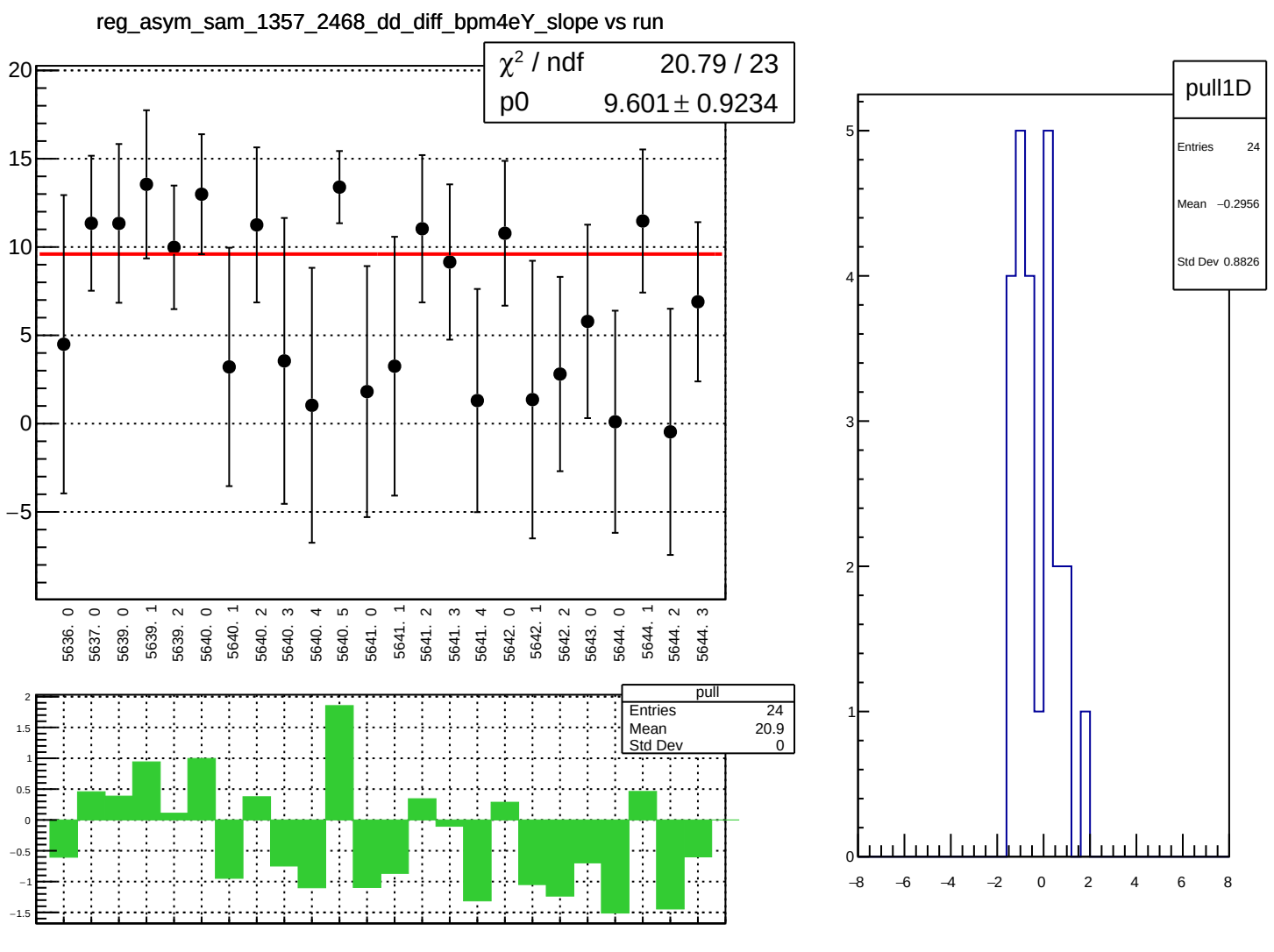

pull1D
Entries 24
Mean 0.00262
Std Dev 0.1846
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

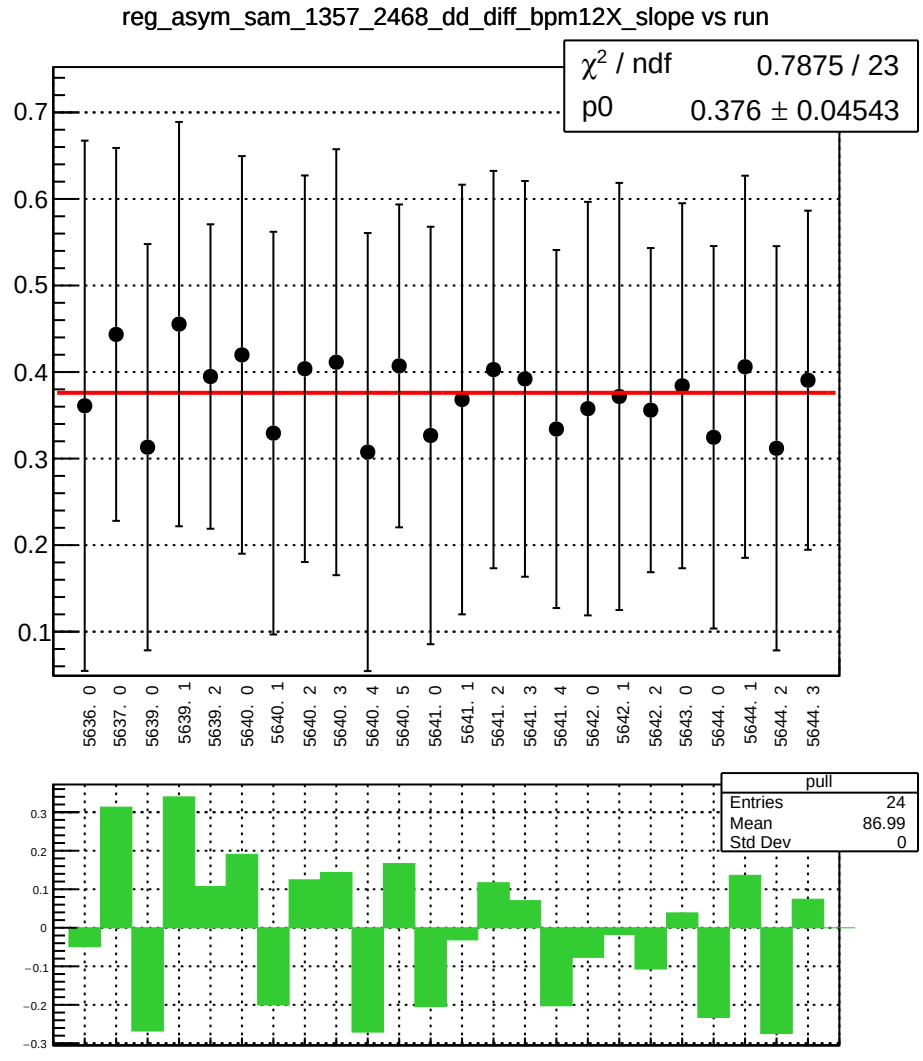

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ^2 / ndf 2.34 / 23
p0 9.241 ± 1.288
25
20
15
10
5
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −18.39
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 24
Mean 0.007307
Std Dev 0.3121
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

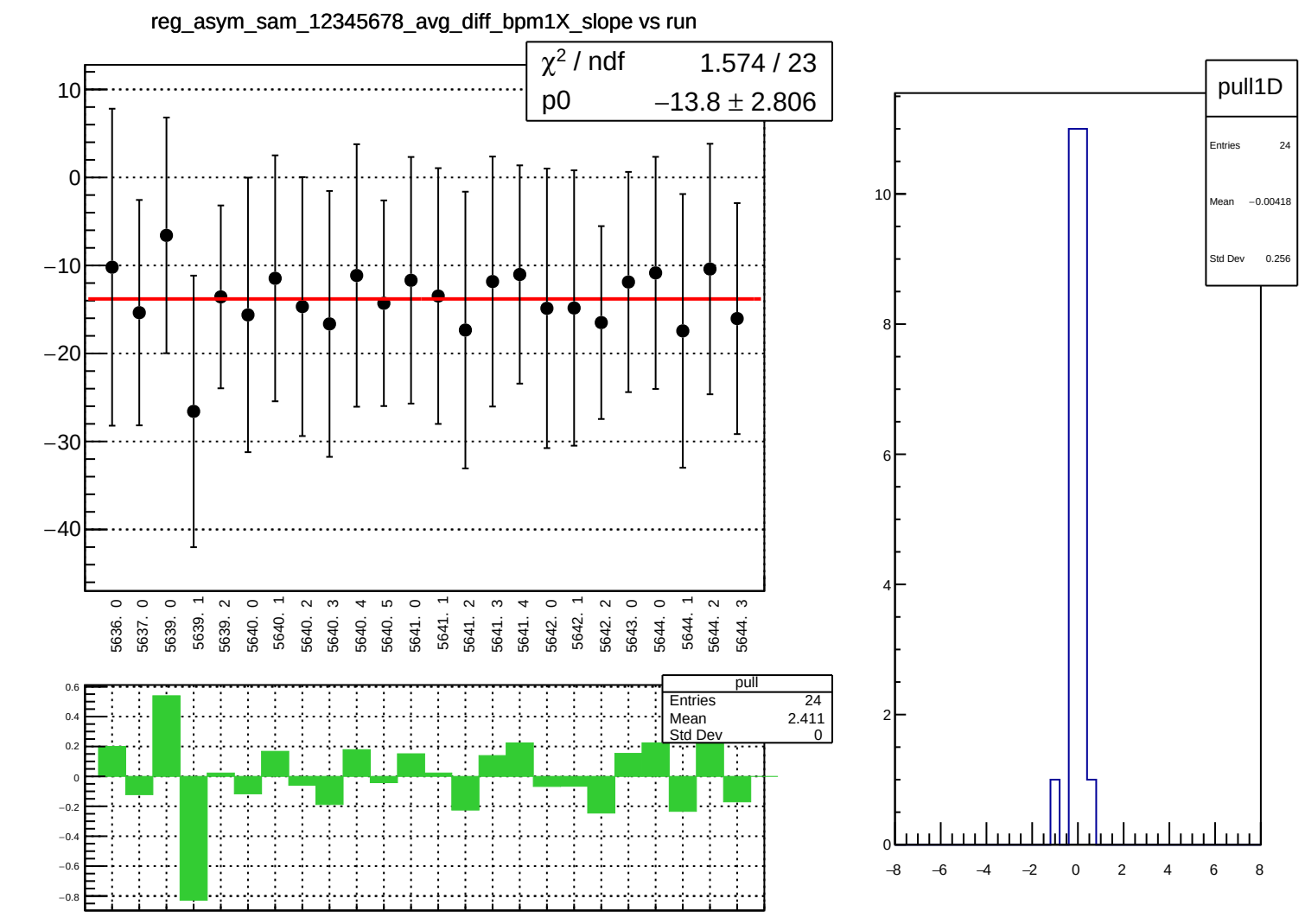

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.94 / 23
p0 0.8345 ± 0.7263
15
10
5
0
−5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 19.72
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

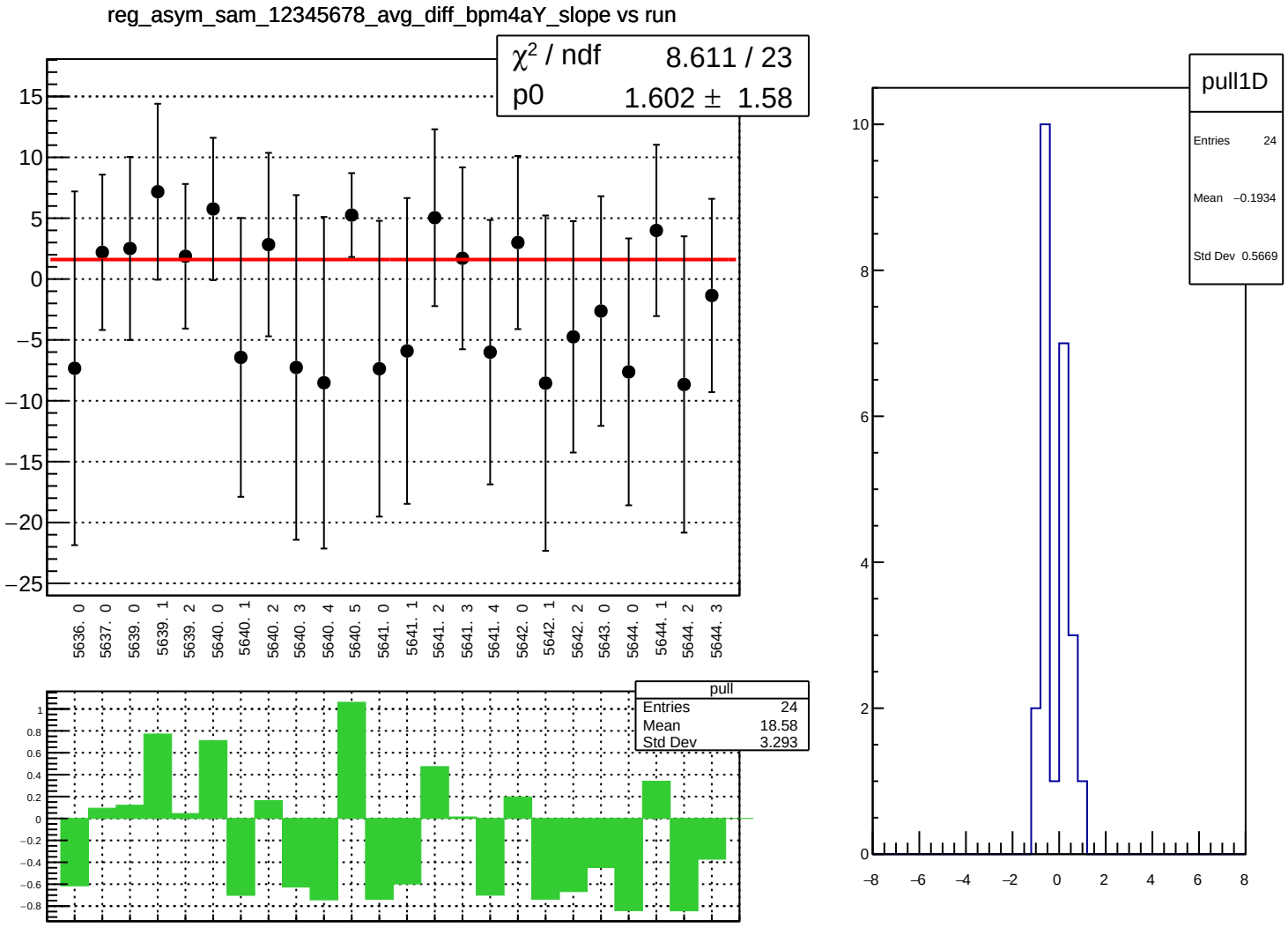

pull1D
Entries 24
Mean 0.2901
Std Dev 0.8395
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

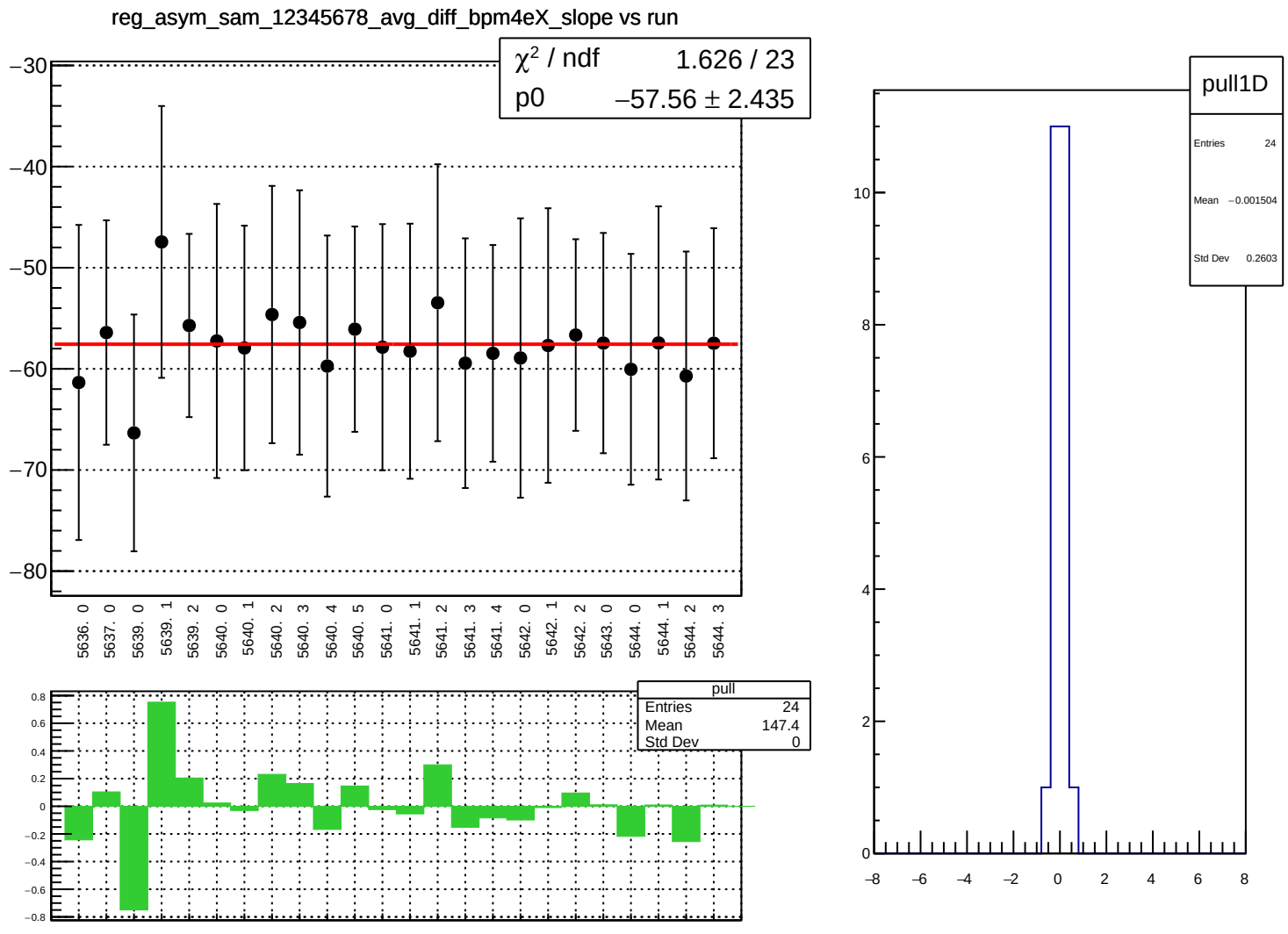

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.066 / 23
p0 24.14 ± 1.118
35
30
25
20
15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −19.28
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean −0.00442
Std Dev 0.2934
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

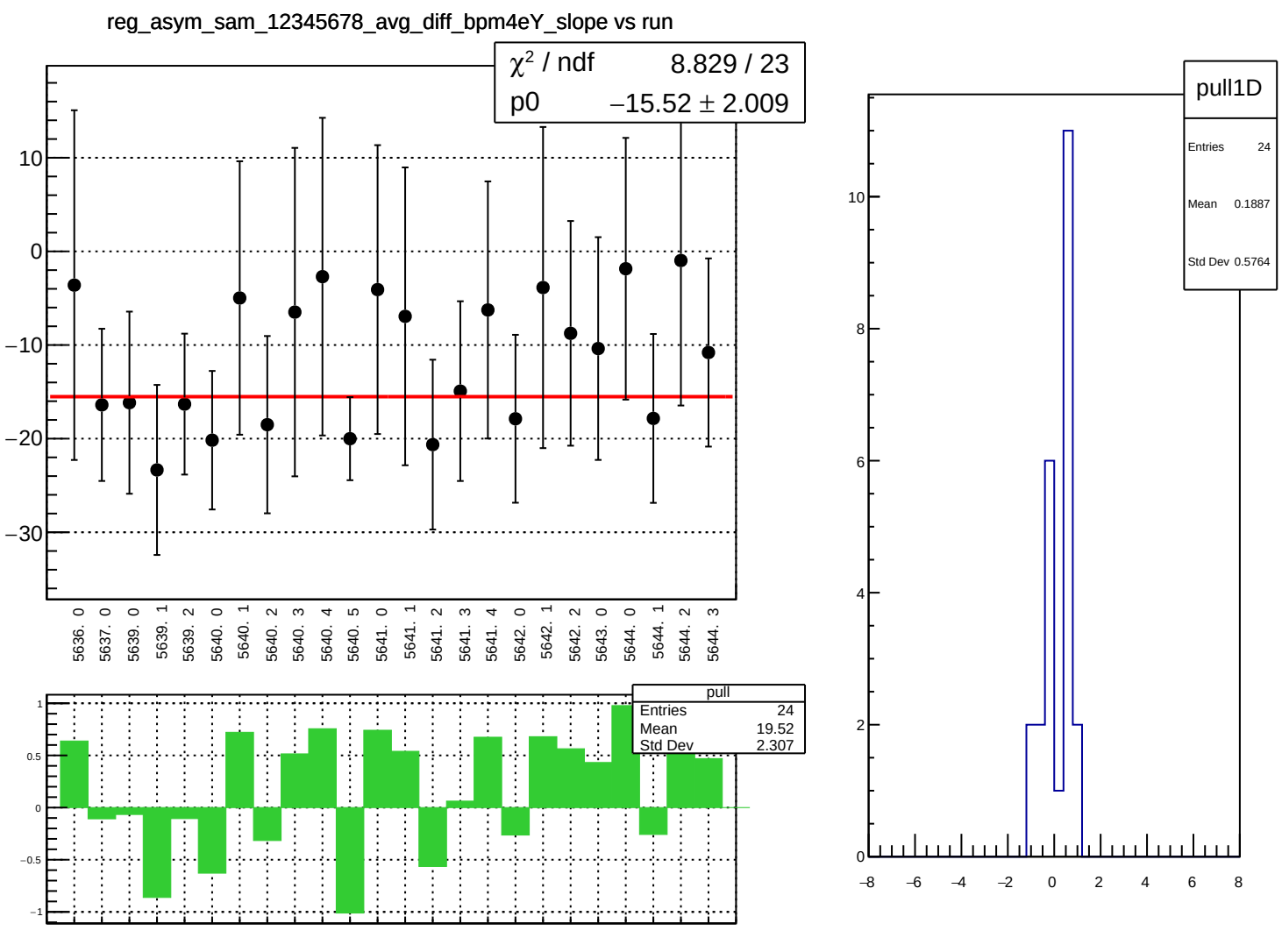

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.79 / 23
p0 9.601 ± 0.9234
20
15
10
5
0
−5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 20.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.2956
Std Dev 0.8826
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

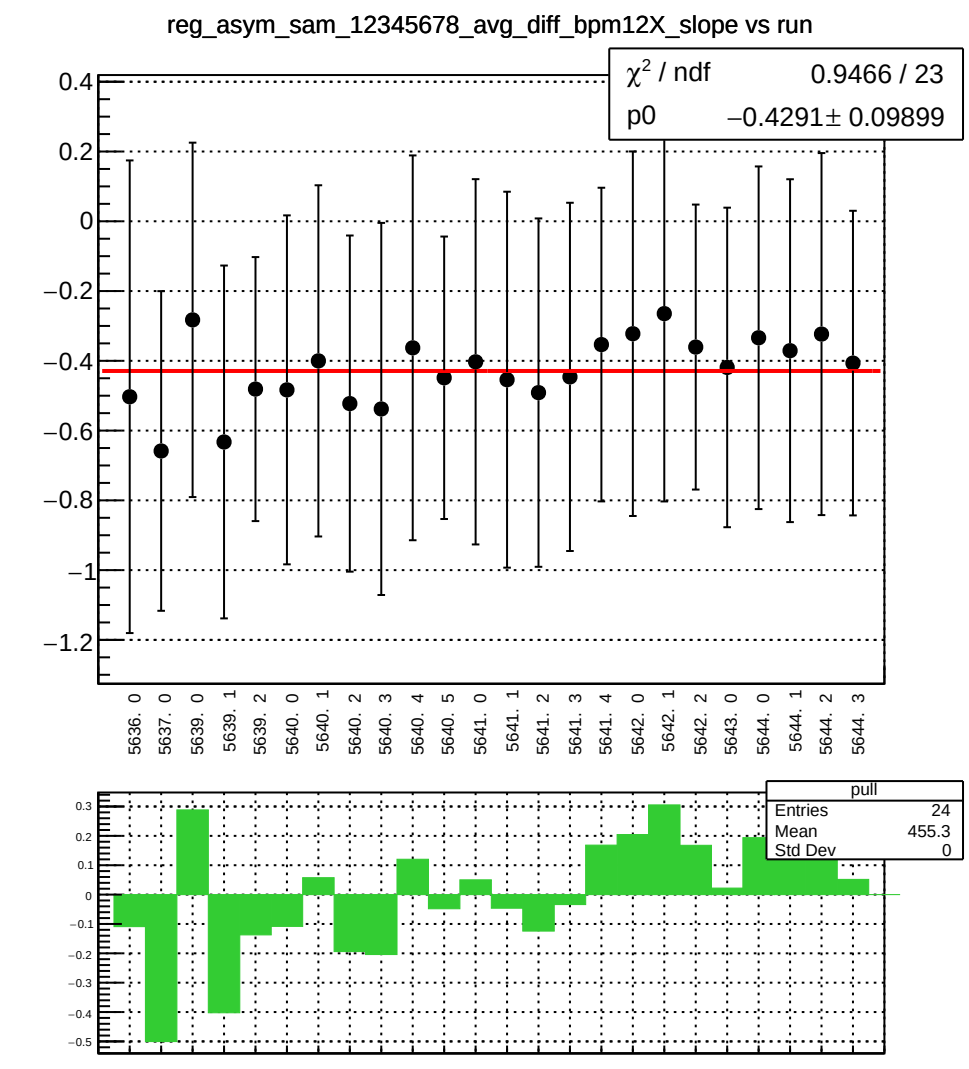

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 0.7875 / 23
p0 0.376 ± 0.04543
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 86.99
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 24
Mean −0.004707
Std Dev 0.1811
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

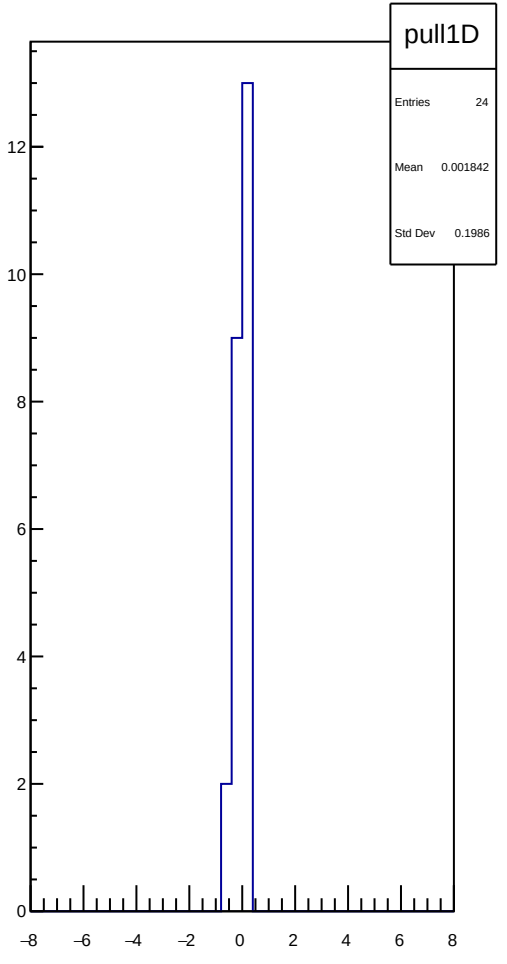

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 1.574 / 23
p0 −13.8 ± 2.806
10
0
−10
−20
−30
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 2.411
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean −0.00418
Std Dev 0.256
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

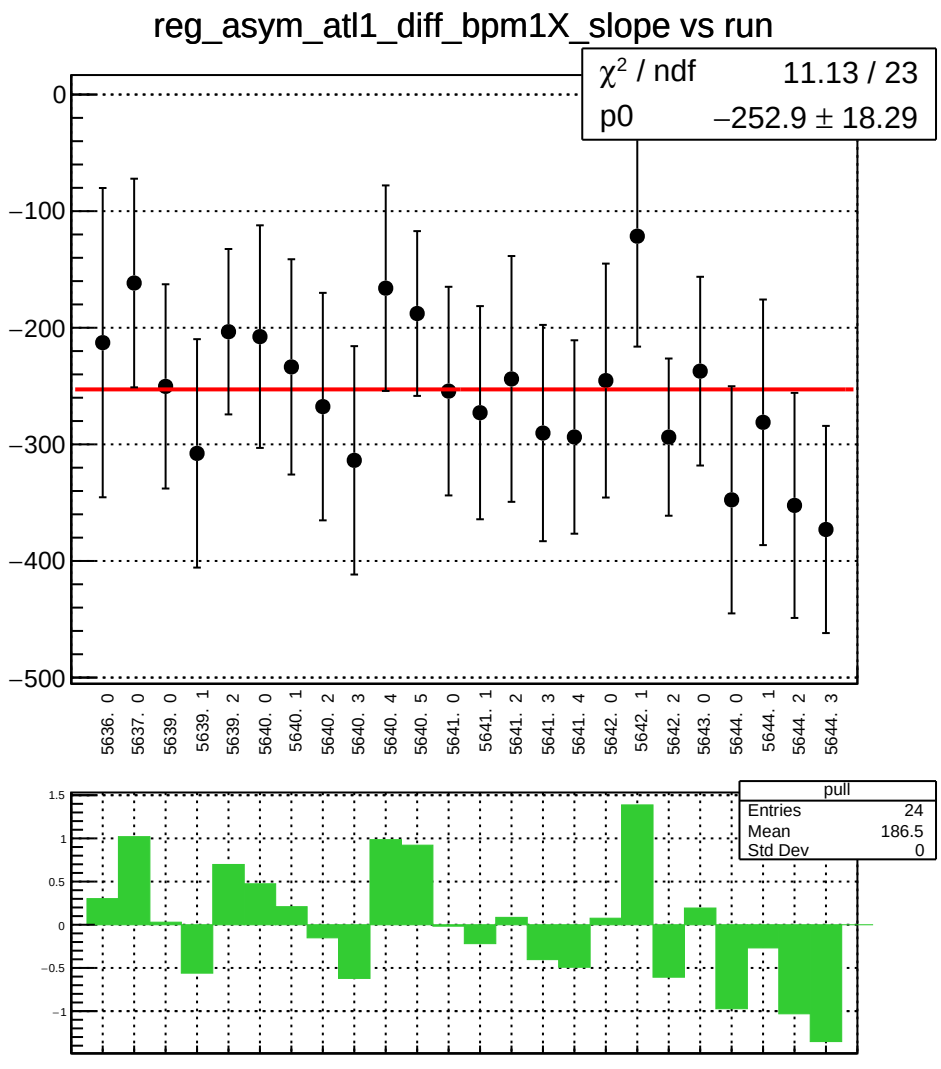

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.611 / 23
p0 1.602 ± 1.58
15
10
5
0
−5
−10
−15
−20
−25
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 18.58
Std Dev 3.293
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean −0.1934
Std Dev 0.5669
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

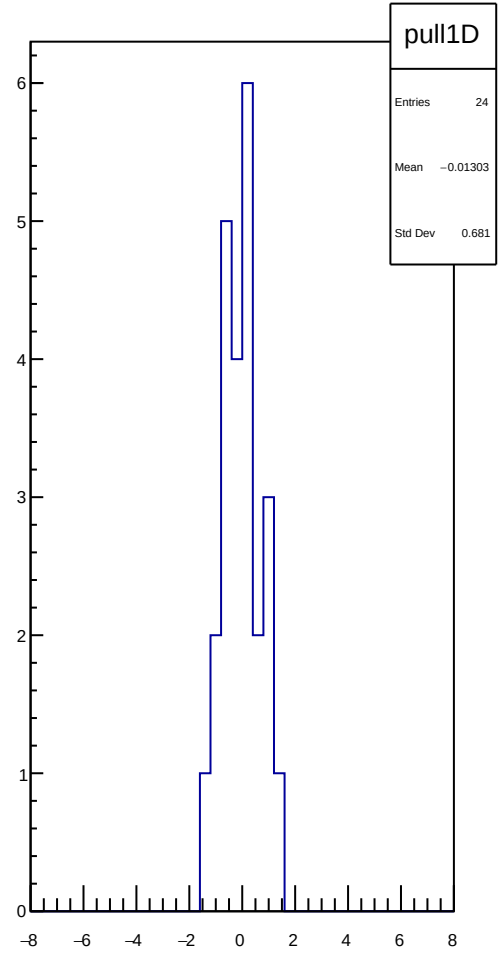

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.626 / 23
p0 −57.56 ± 2.435
−30
−40
−50
−60
−70
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 147.4
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean −0.001504
Std Dev 0.2603
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

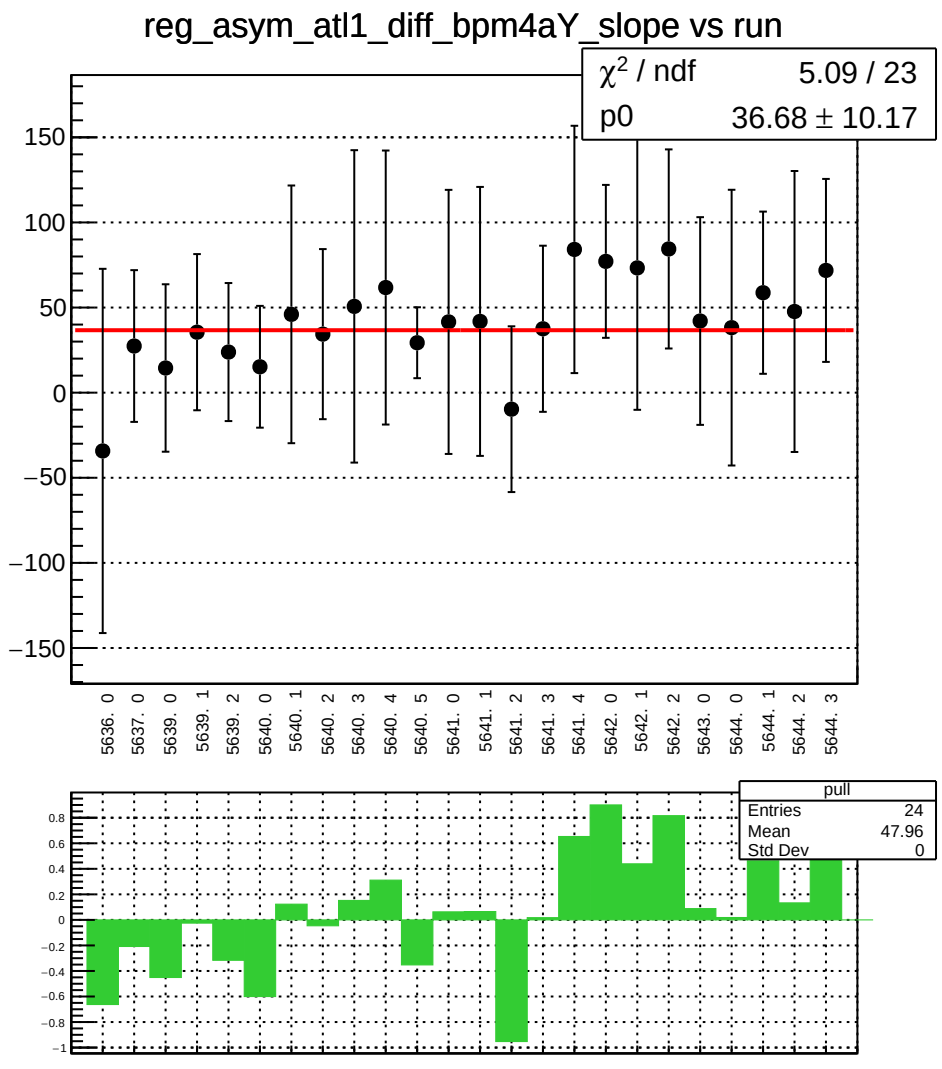

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.829 / 23
p0 −15.52 ± 2.009
10
0
−10
−20
−30
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 19.52
Std Dev 2.307
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.1887
Std Dev 0.5764
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

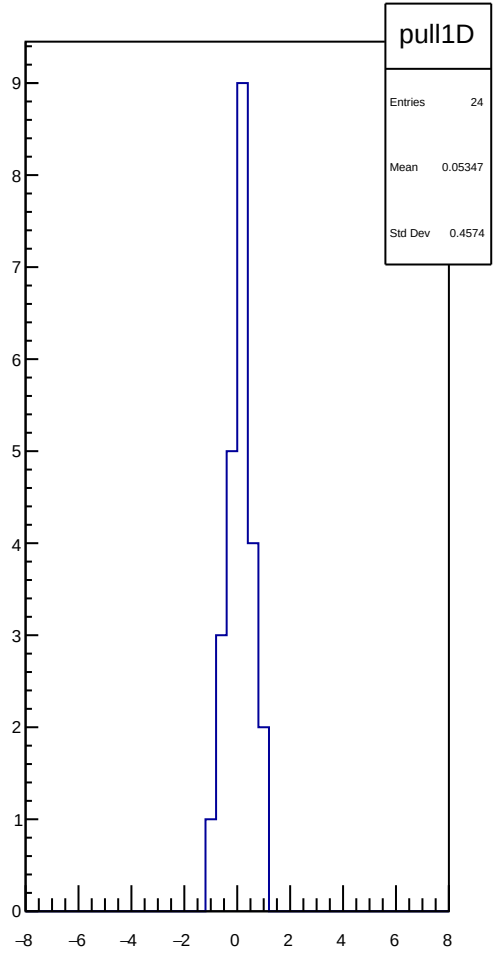

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 0.9466 / 23
p0 −0.4291± 0.09899
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 455.3
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

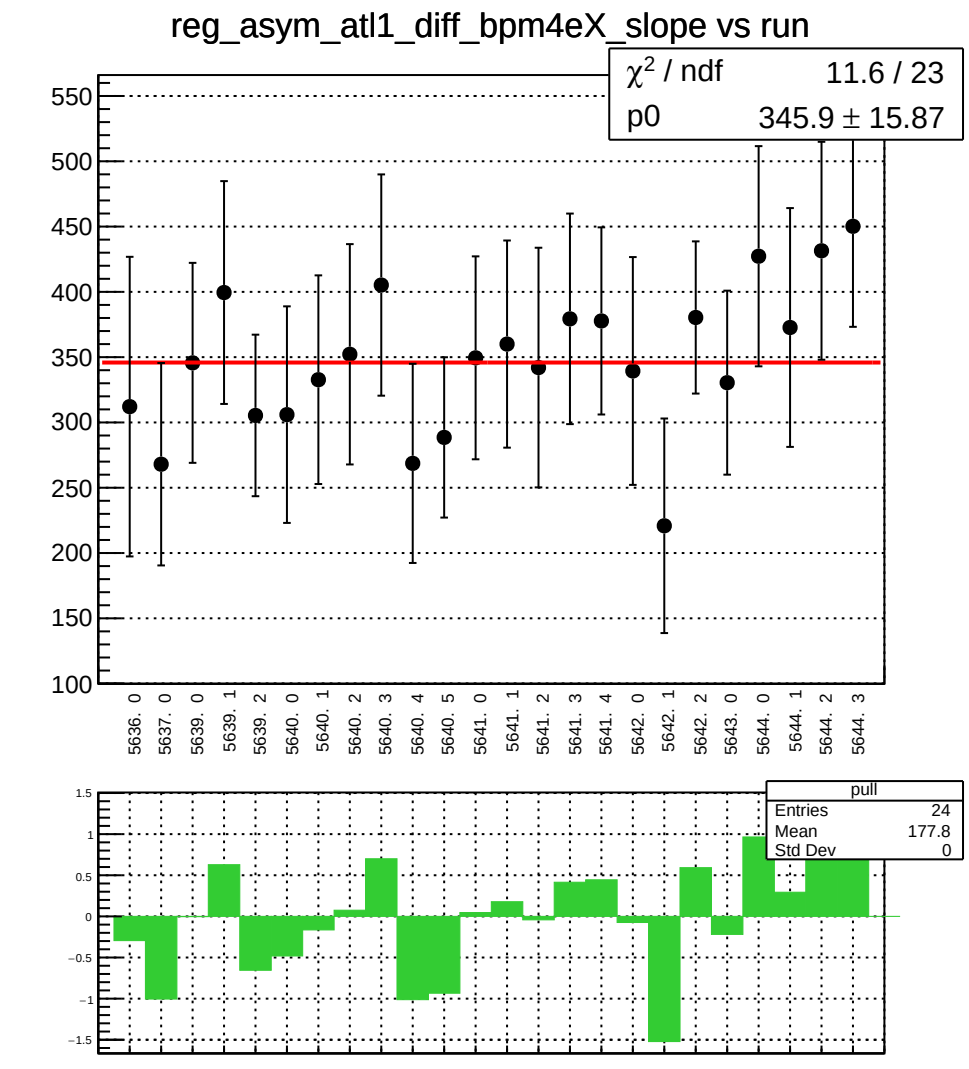

pull1D
Entries 24
Mean 0.001842
Std Dev 0.1986
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

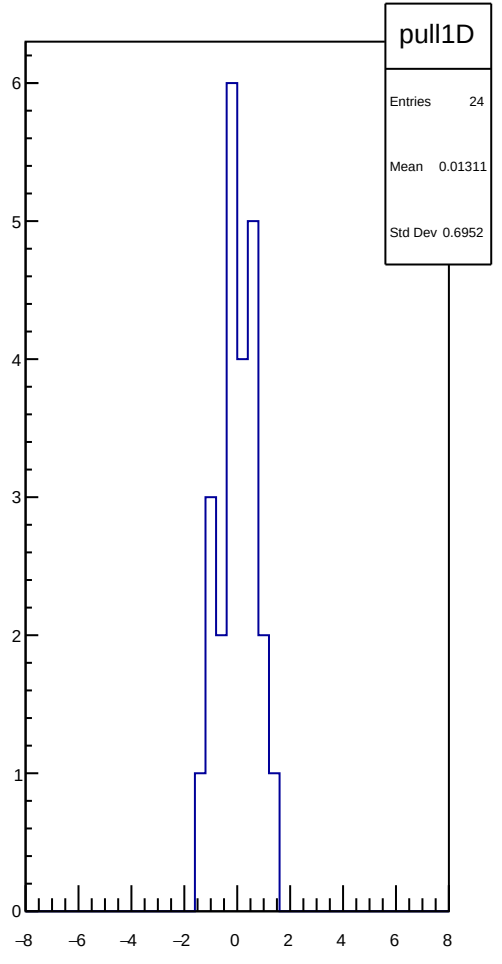

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 11.13 / 23
p0 −252.9 ± 18.29
0
−100
−200
−300
−400
−500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 186.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1

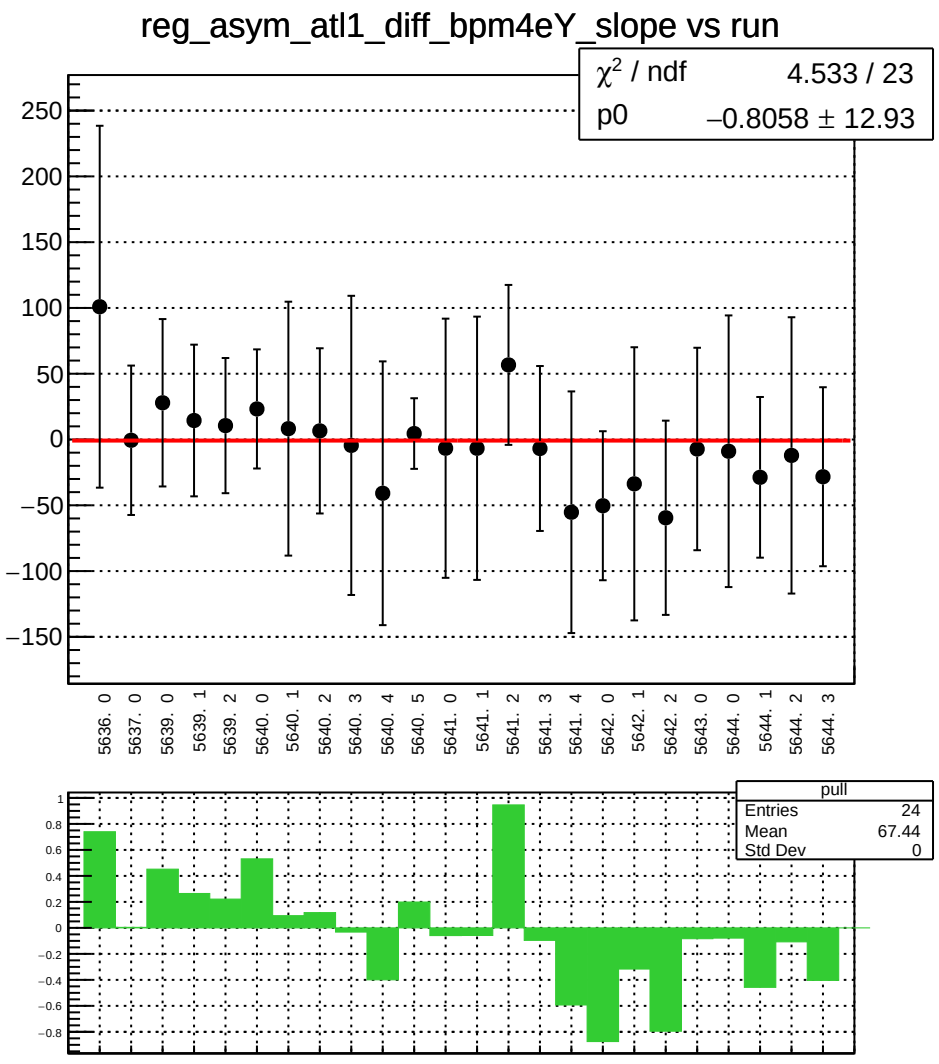

pull1D
Entries 24
Mean −0.01303
Std Dev 0.681
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

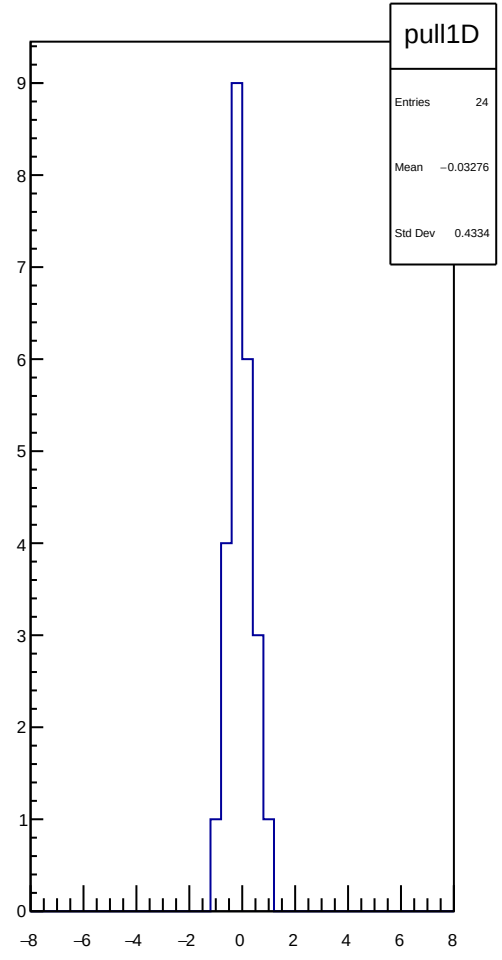

reg_asym_atl1_diff_bpm4aY_slope vs run
χ2 / ndf 5.09 / 23
p0 36.68 ± 10.17
150
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 47.96
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

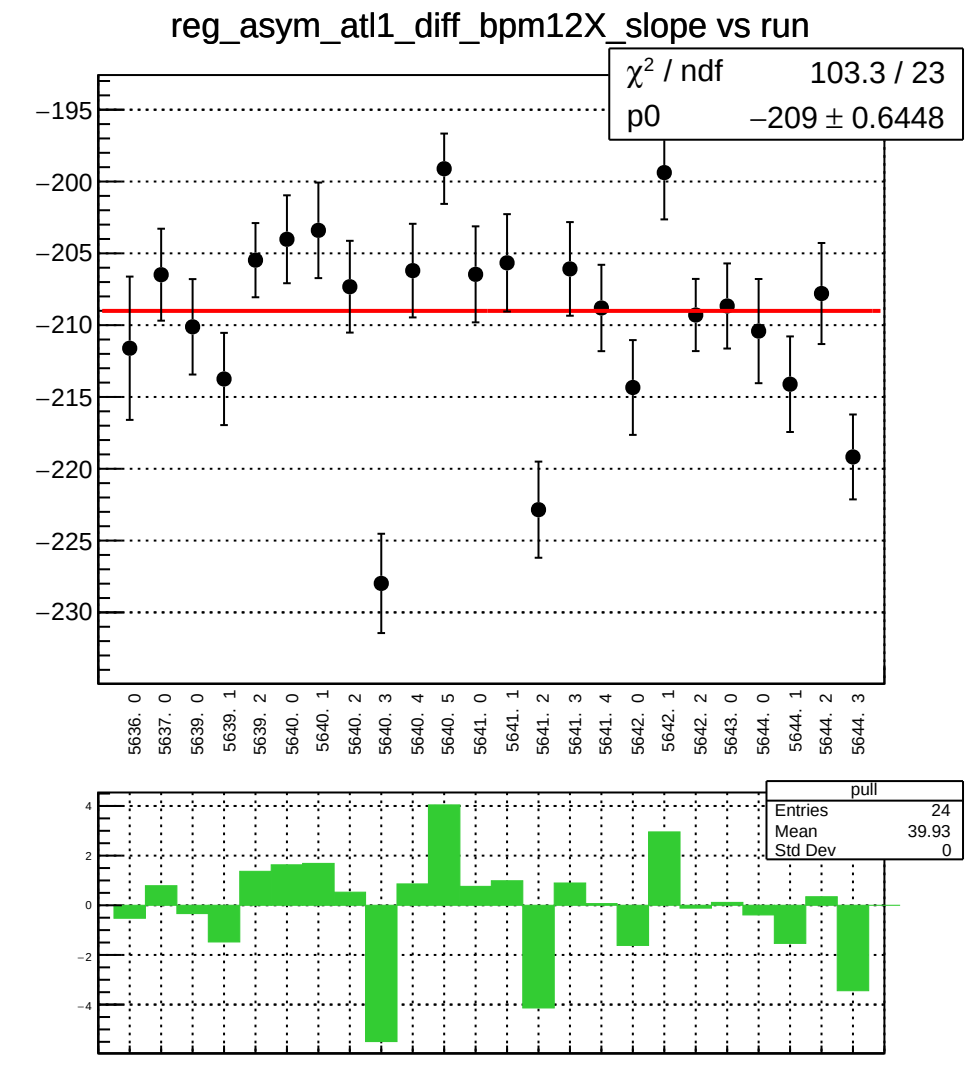

pull1D
Entries 24
Mean 0.05347
Std Dev 0.4574
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

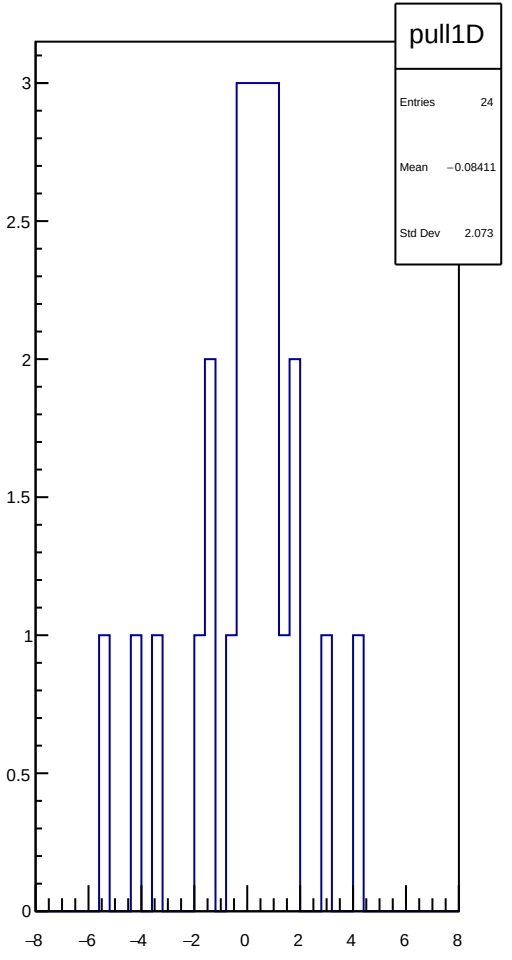

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 11.6 / 23
p0 345.9 ± 15.87
550
500
450
400
350
300
250
200
150
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 177.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

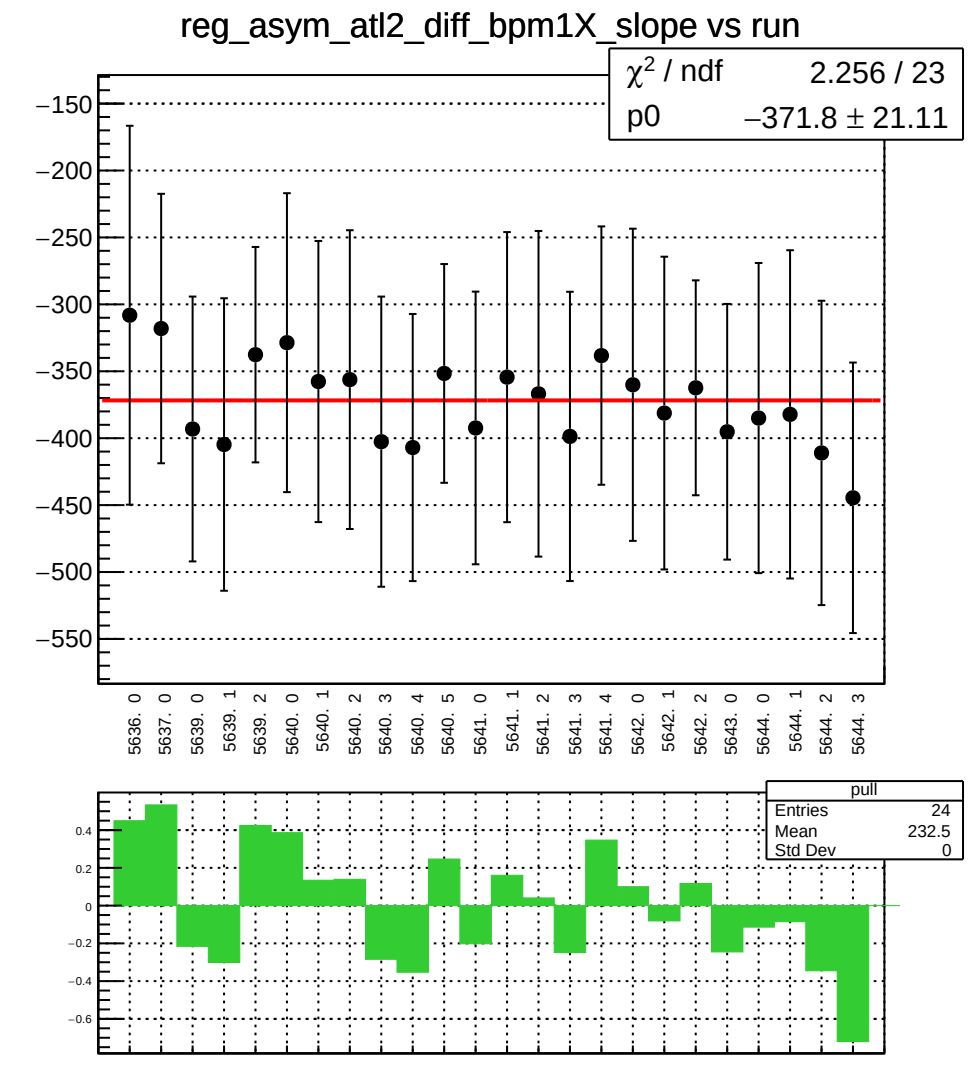

pull1D
Entries 24
Mean 0.01311
Std Dev 0.6952
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

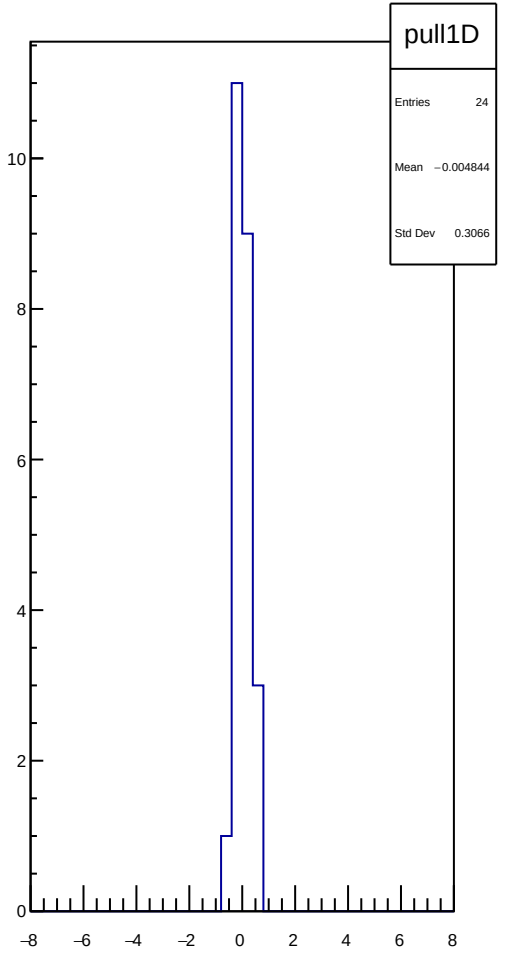

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 4.533 / 23
p0 −0.8058 ± 12.93
250
200
150
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 67.44
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

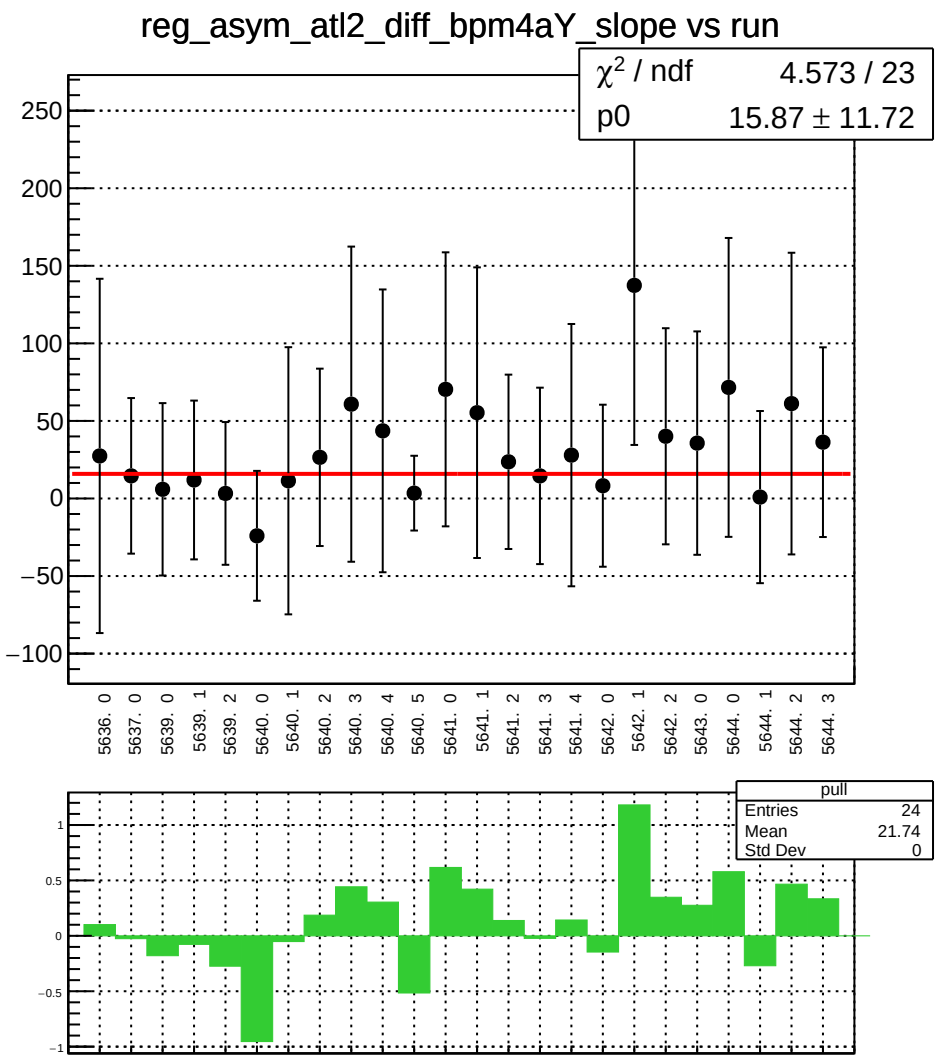

pull1D
Entries 24
Mean −0.03276
Std Dev 0.4334
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

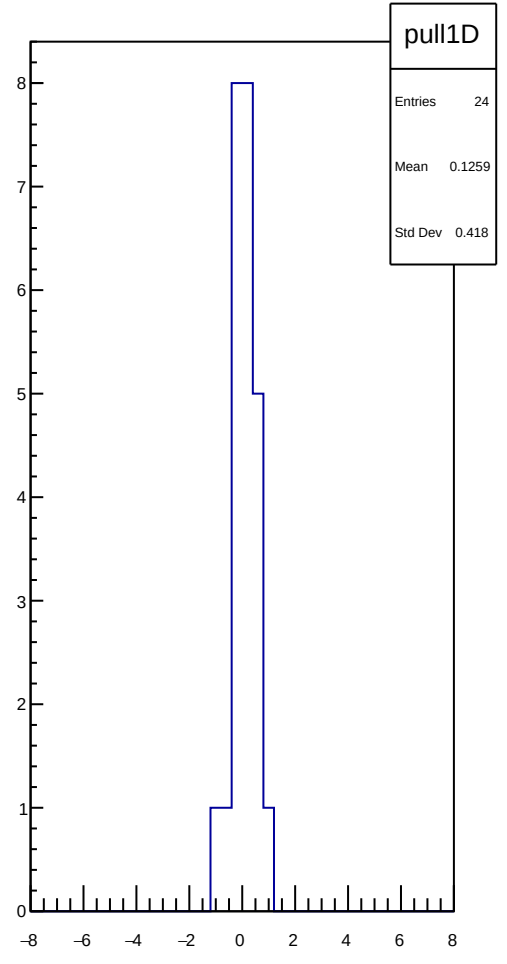

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 103.3 / 23
p0 −209 ± 0.6448
−195
−200
−205
−210
−215
−220
−225
−230
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 39.93
Std Dev 0
4
2
0
−2
−4

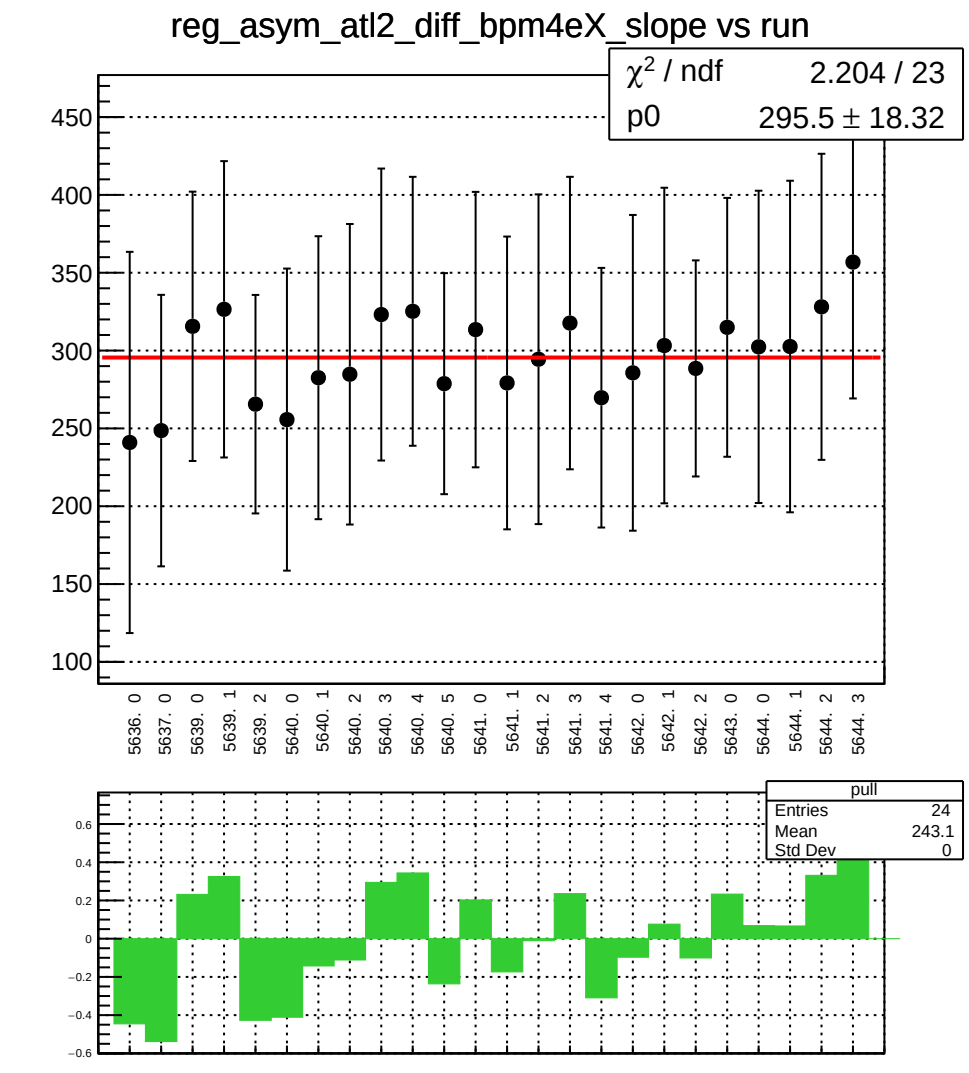

pull1D
Entries 24
Mean −0.08411
Std Dev 2.073
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

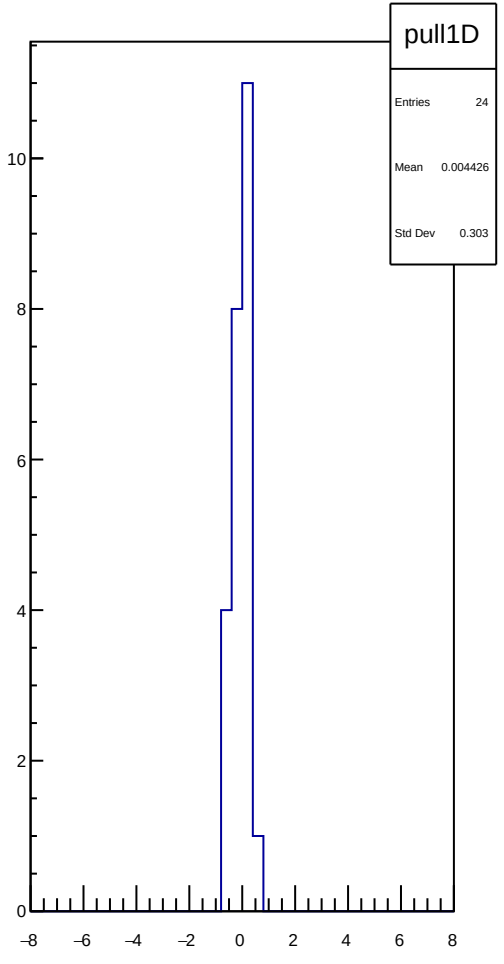

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 2.256 / 23
p0 −371.8 ± 21.11
−150
−200
−250
−300
−350
−400
−450
−500
−550
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 232.5
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

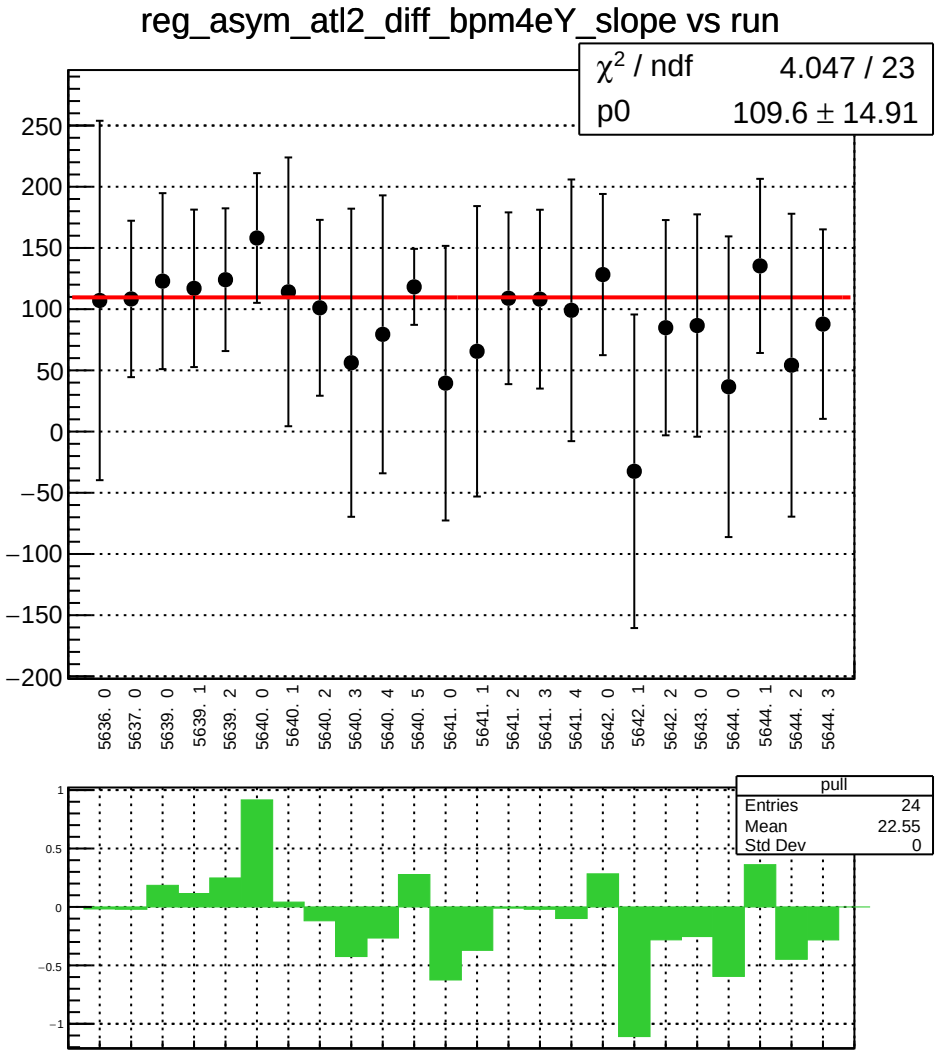

pull1D
Entries 24
Mean −0.004844
Std Dev 0.3066
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

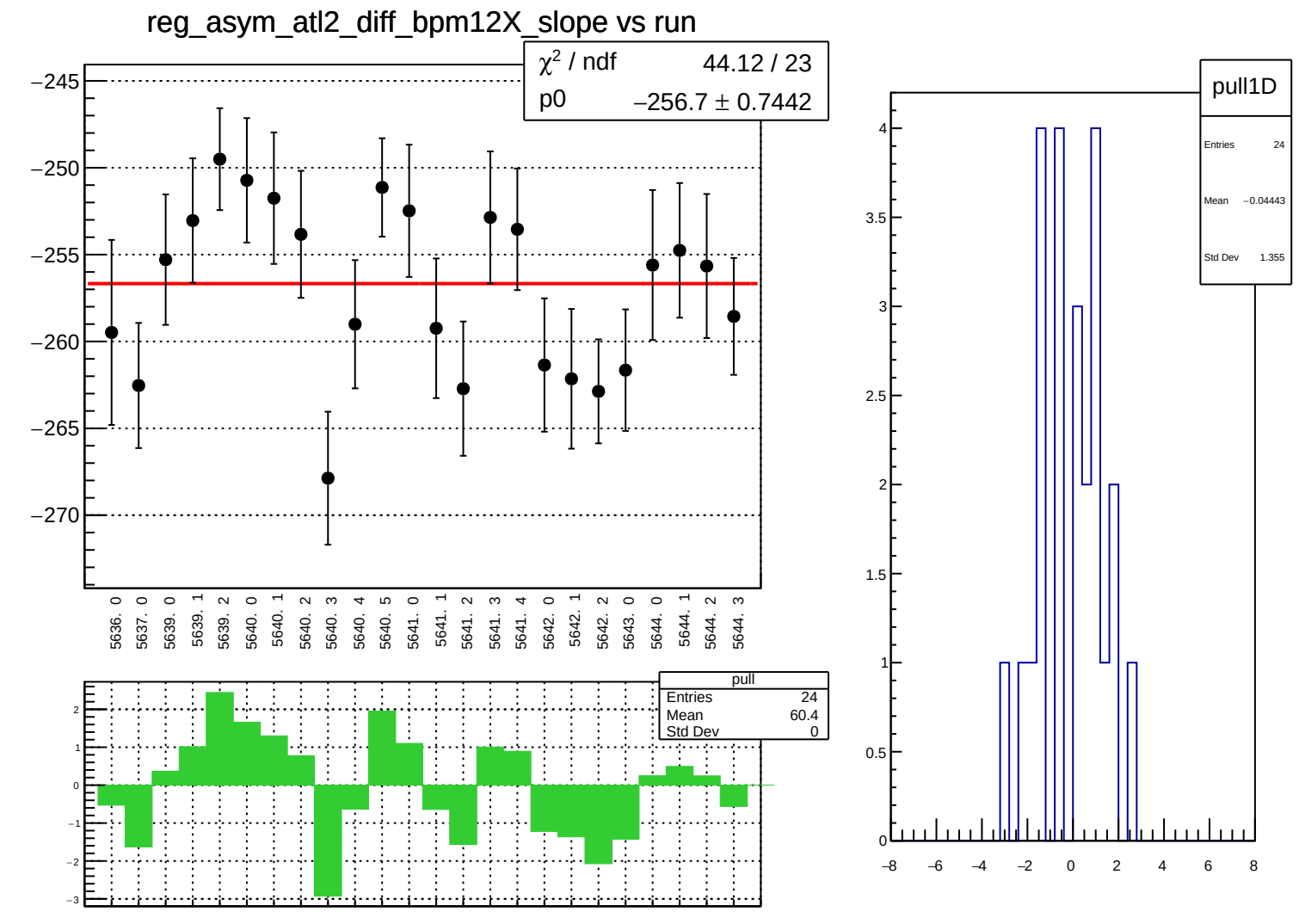

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 4.573 / 23
p0 15.87 ± 11.72
250
200
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 21.74
Std Dev 0
1
0.5
0
−0.5
−1

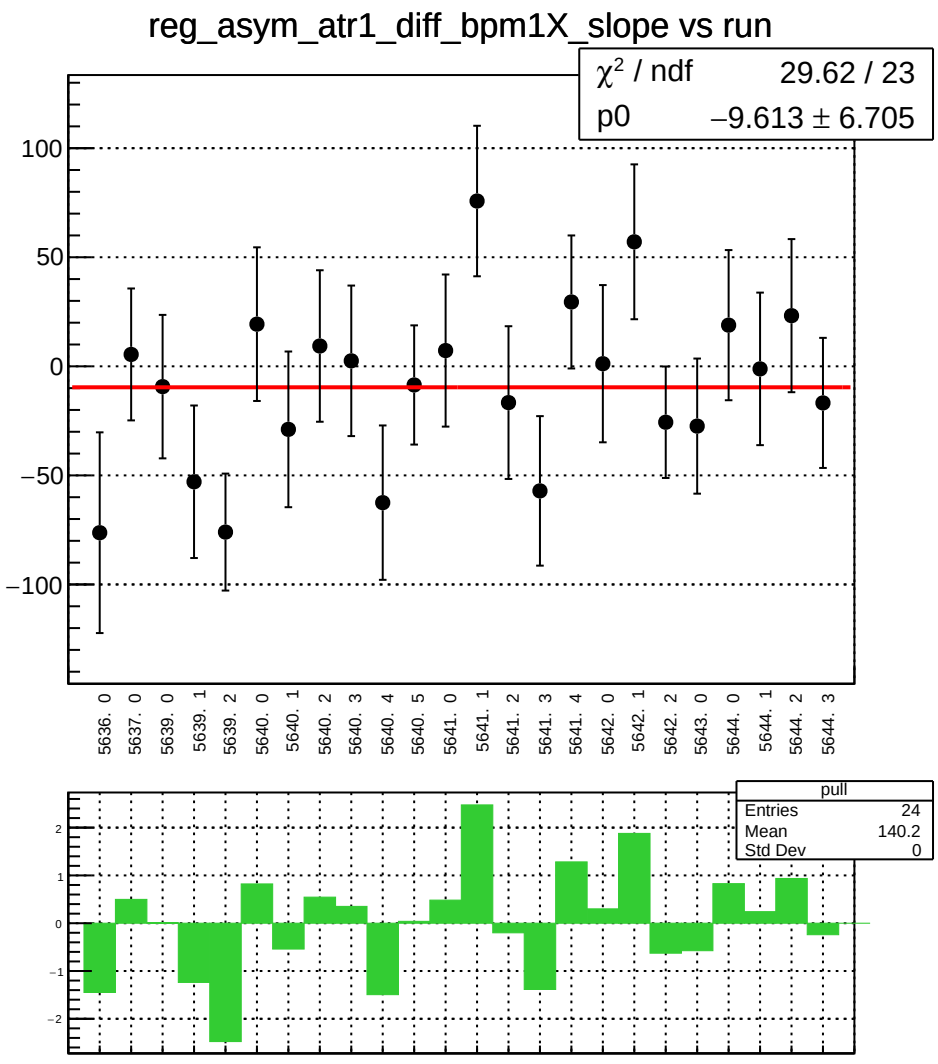

pull1D
Entries 24
Mean 0.1259
Std Dev 0.418
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

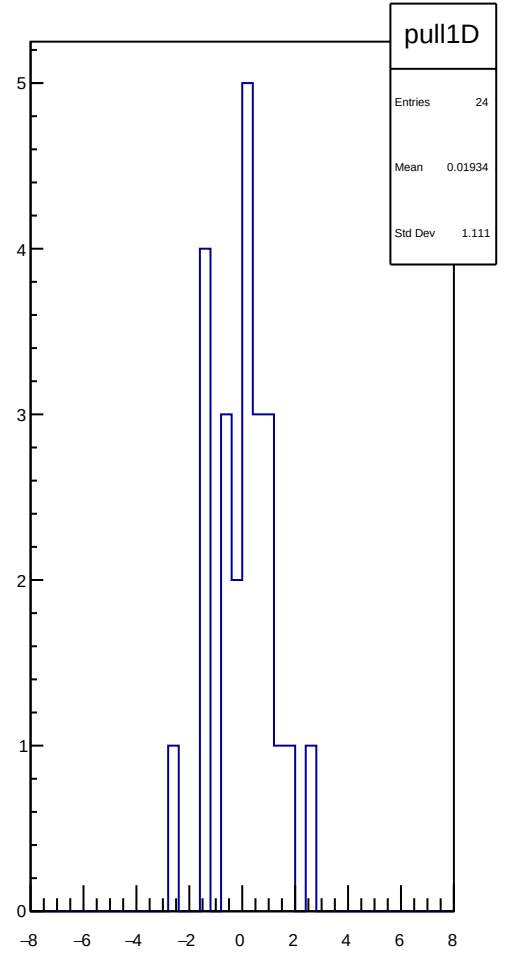

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 2.204 / 23
p0 295.5 ± 18.32
pull
Entries 24
Mean 243.1
Std Dev 0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

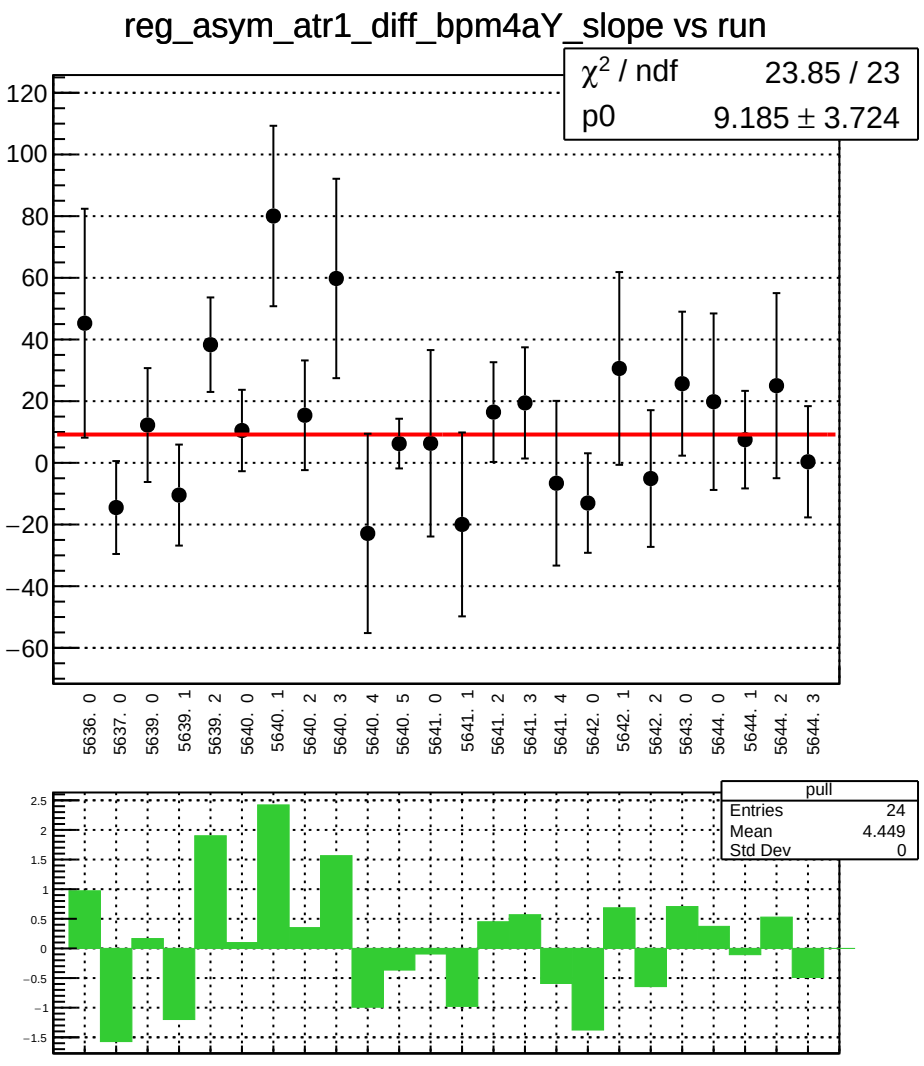

pull1D
Entries 24
Mean 0.004426
Std Dev 0.303

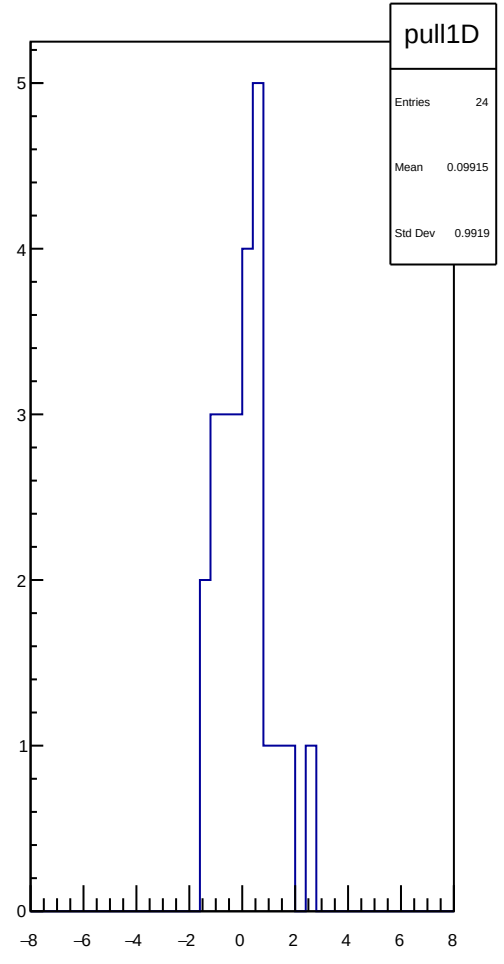

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 4.047 / 23
p0 109.6 ± 14.91
250
200
150
100
50
0
−50
−100
−150
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 22.55
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.1047
Std Dev 0.3971
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

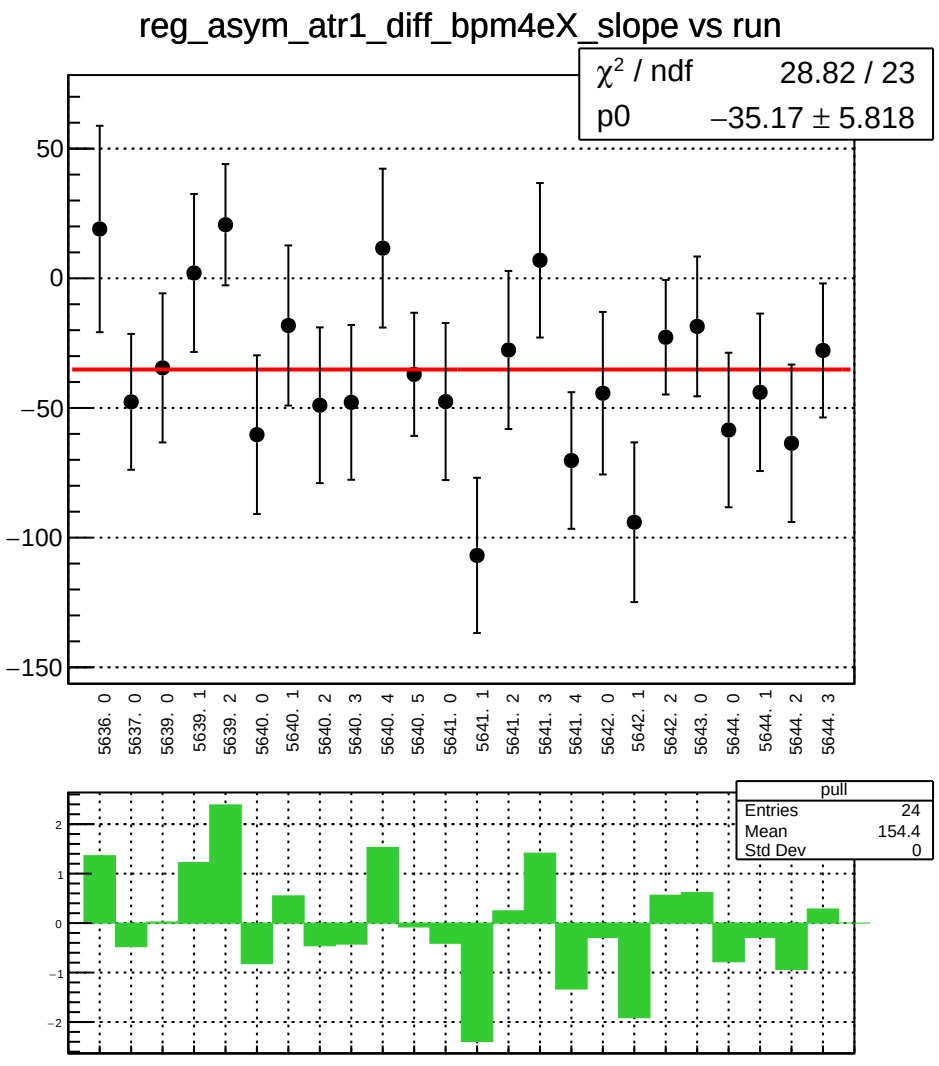

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 44.12 / 23
p0 −256.7 ± 0.7442
−245
−250
−255
−260
−265
−270
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 60.4
Std Dev 0
pull1D
Entries 24
Mean −0.04443
Std Dev 1.355

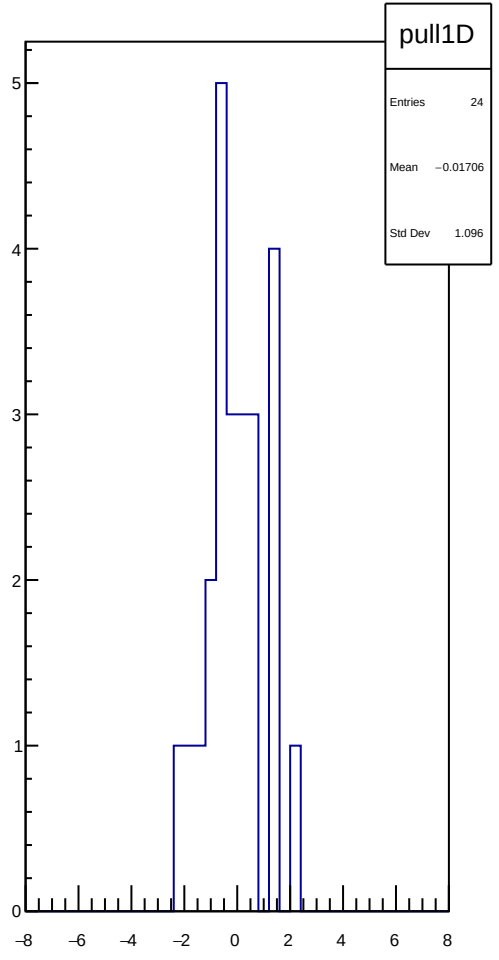

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 29.62 / 23
p0 −9.613 ± 6.705
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 140.2
Std Dev 0
2
1
0
−1
−2

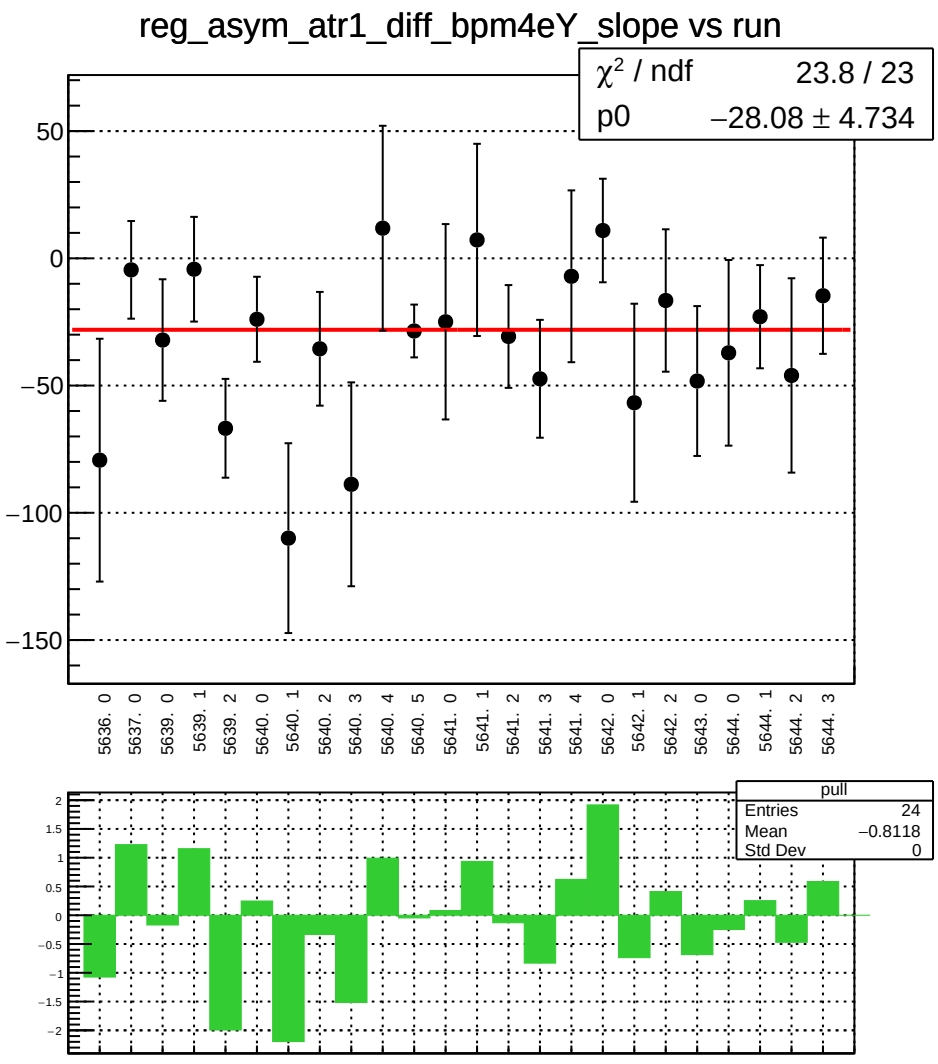

pull1D
Entries 24
Mean 0.01934
Std Dev 1.111
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

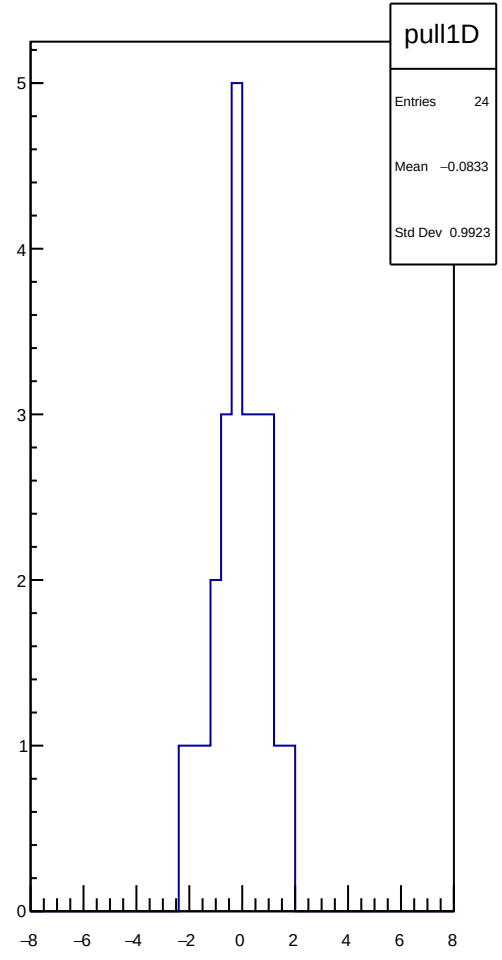

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 23.85 / 23
p0 9.185 ± 3.724
120
100
80
60
40
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 4.449
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

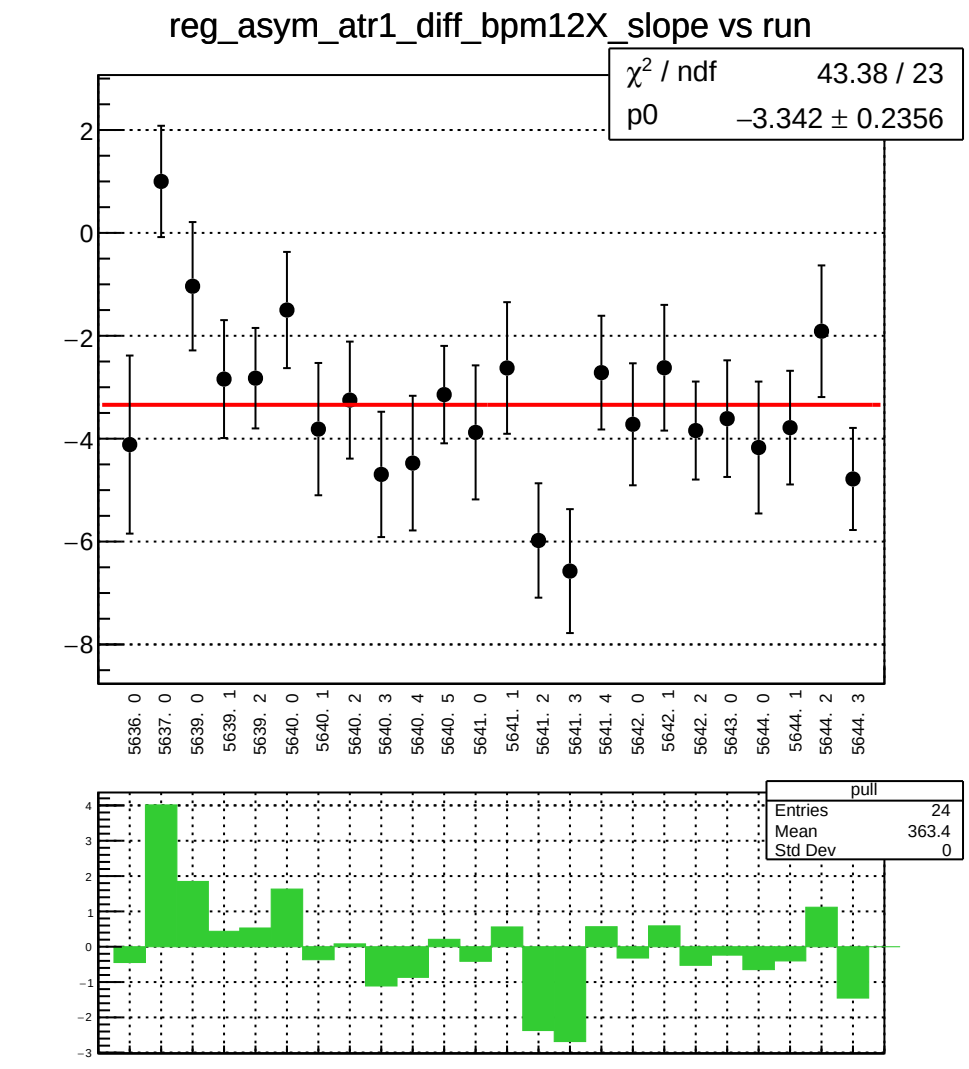

pull1D
Entries 24
Mean 0.09915
Std Dev 0.9919
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

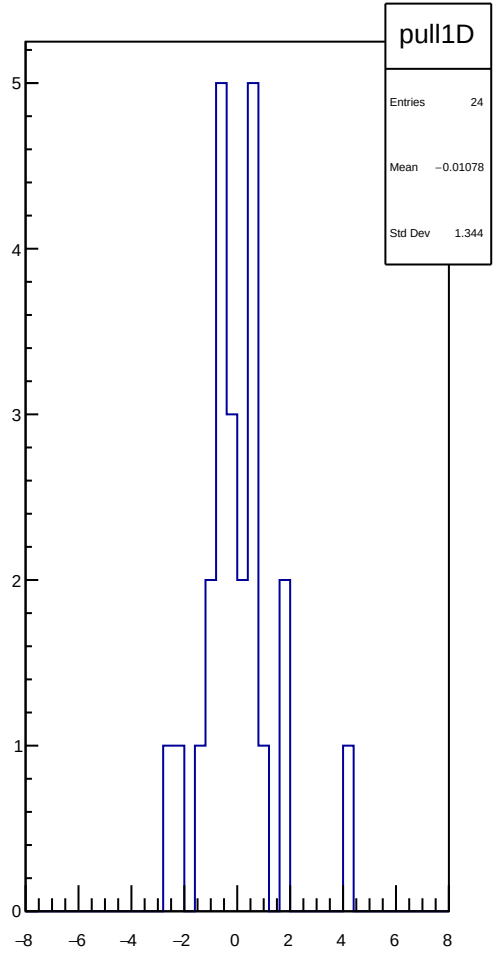

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 28.82 / 23
p0 −35.17 ± 5.818
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 154.4
Std Dev 0
2
1
0
−1
−2

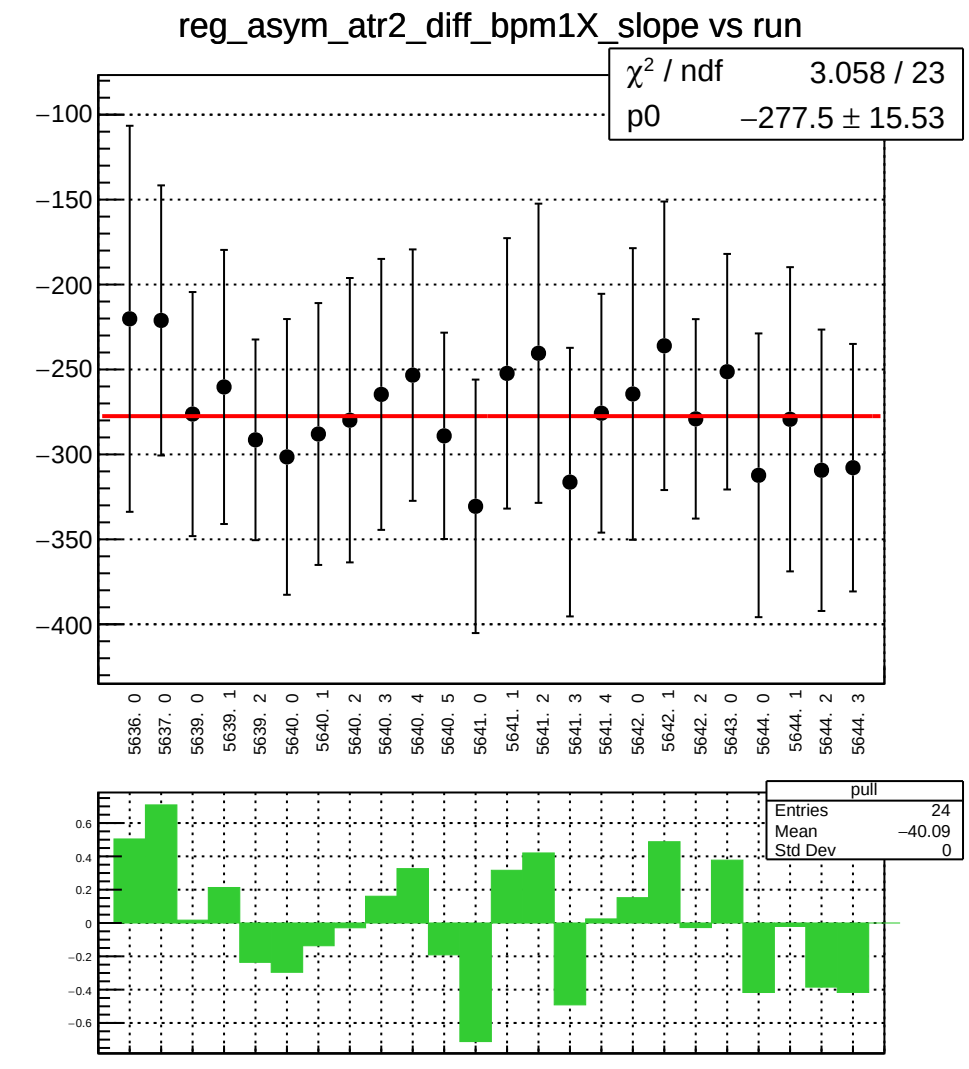

pull1D
Entries 24
Mean −0.01706
Std Dev 1.096
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

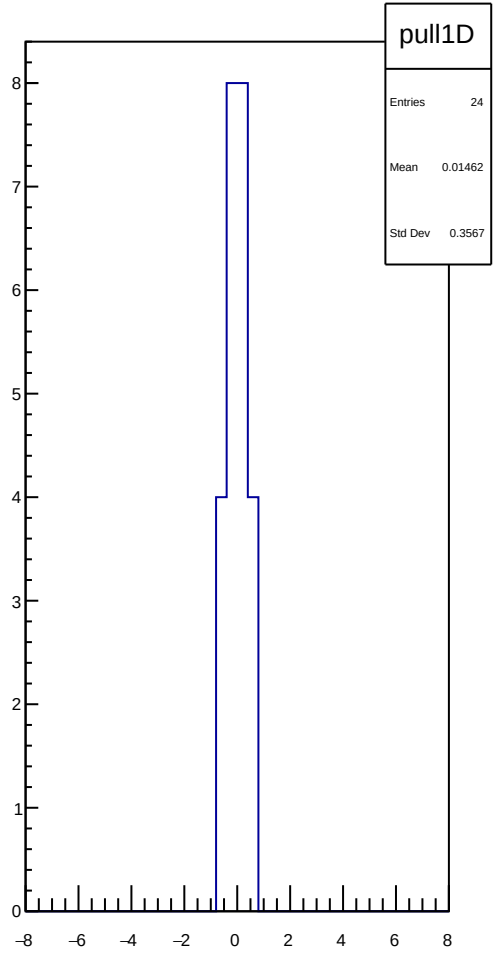

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 23.8 / 23
p0 −28.08 ± 4.734
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −0.8118
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

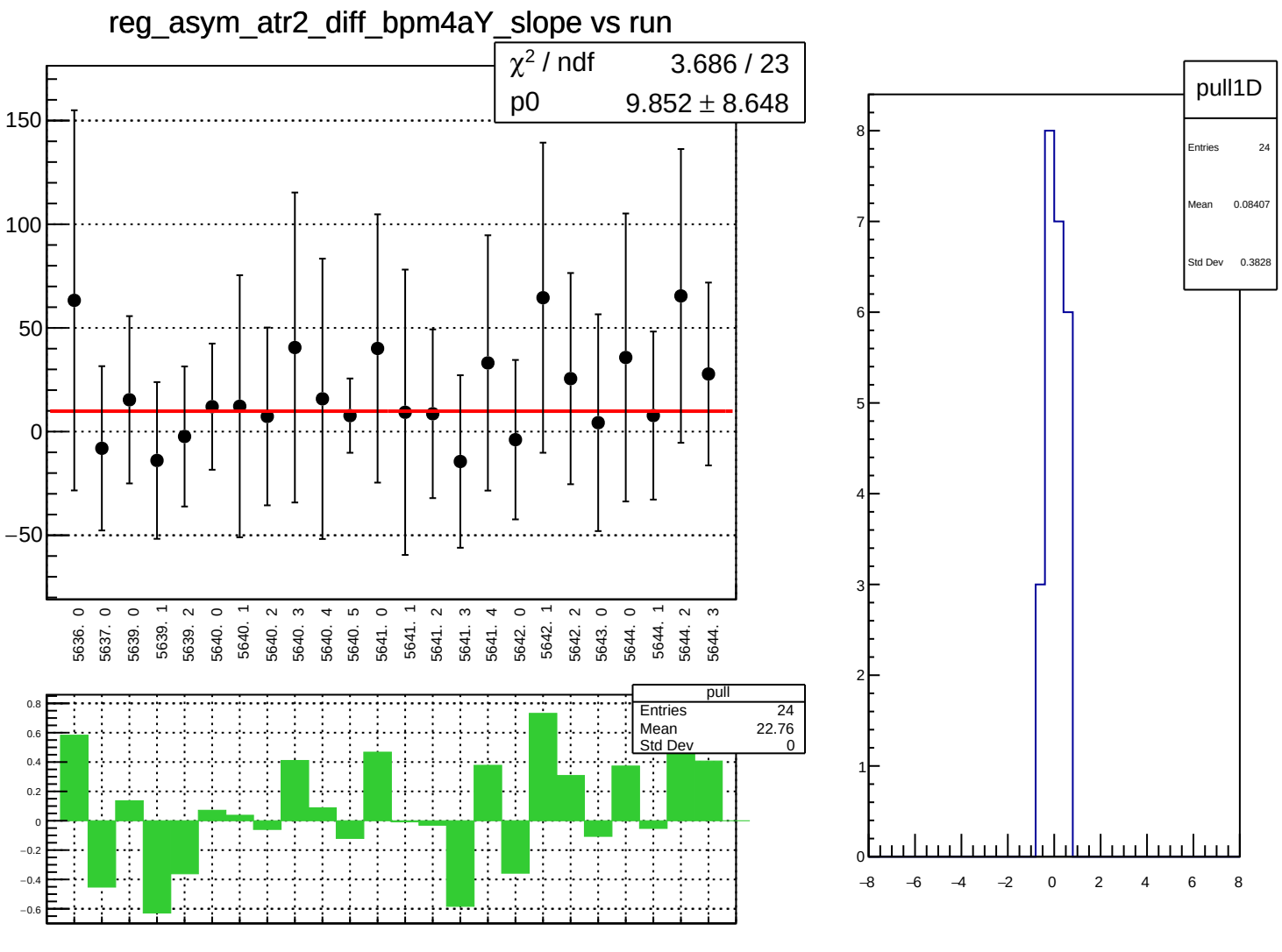

pull1D
Entries 24
Mean −0.0833
Std Dev 0.9923
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

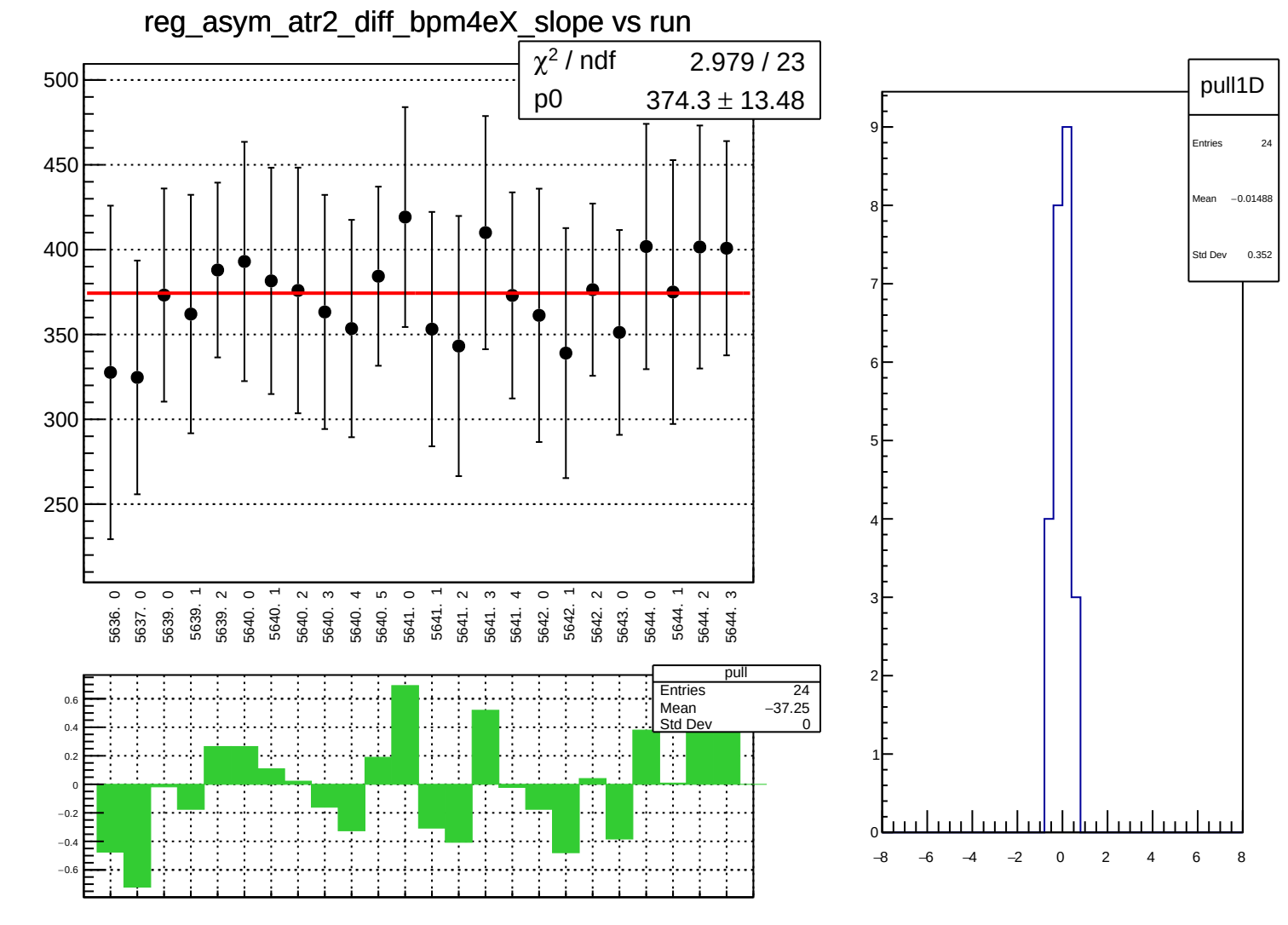

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 43.38 / 23
p0 −3.342 ± 0.2356
2
0
−2
−4
−6
−8
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 363.4
Std Dev 0
4
3
2
1
0
−1
−2
−3

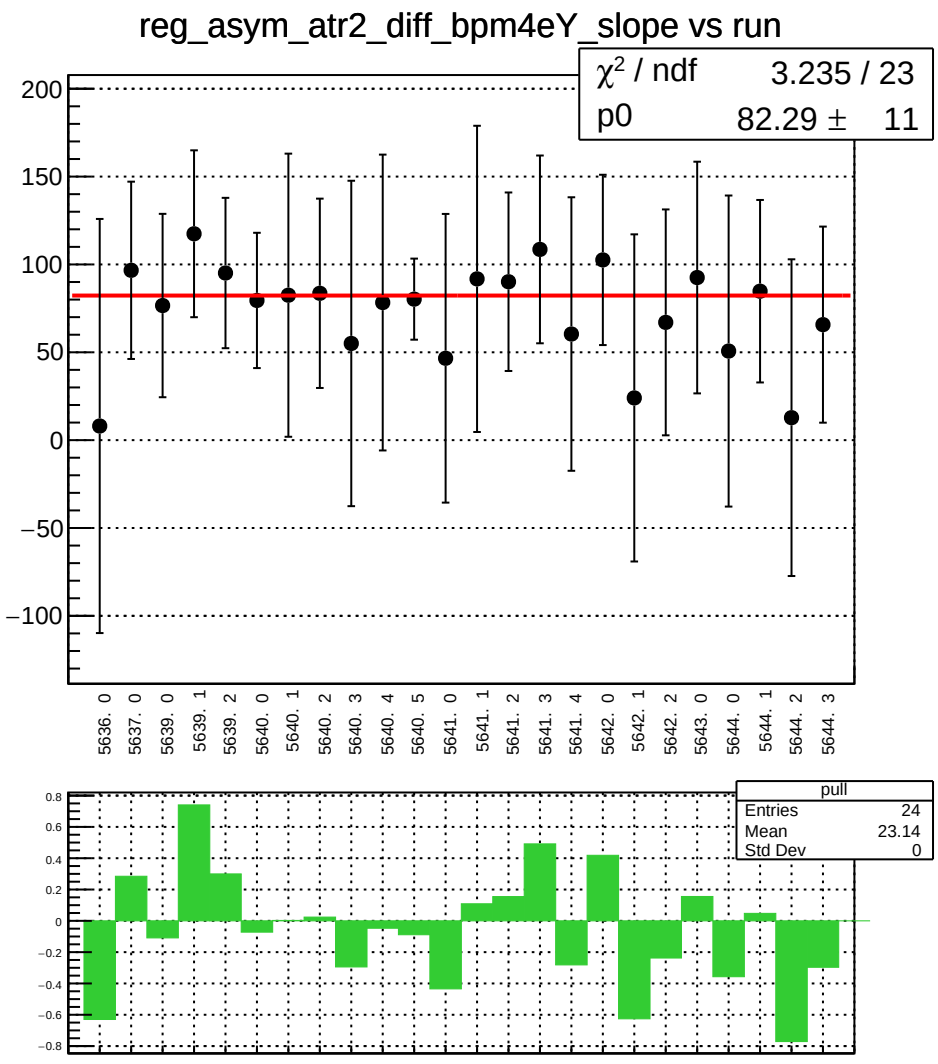

pull1D
Entries 24
Mean −0.01078
Std Dev 1.344
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

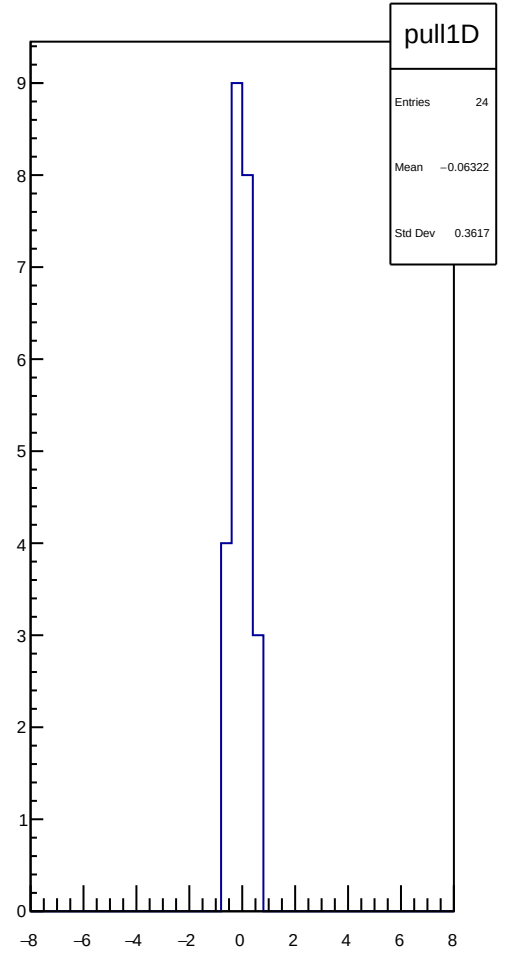

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 3.058 / 23
p0 −277.5 ± 15.53
−100
−150
−200
−250
−300
−350
−400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −40.09
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

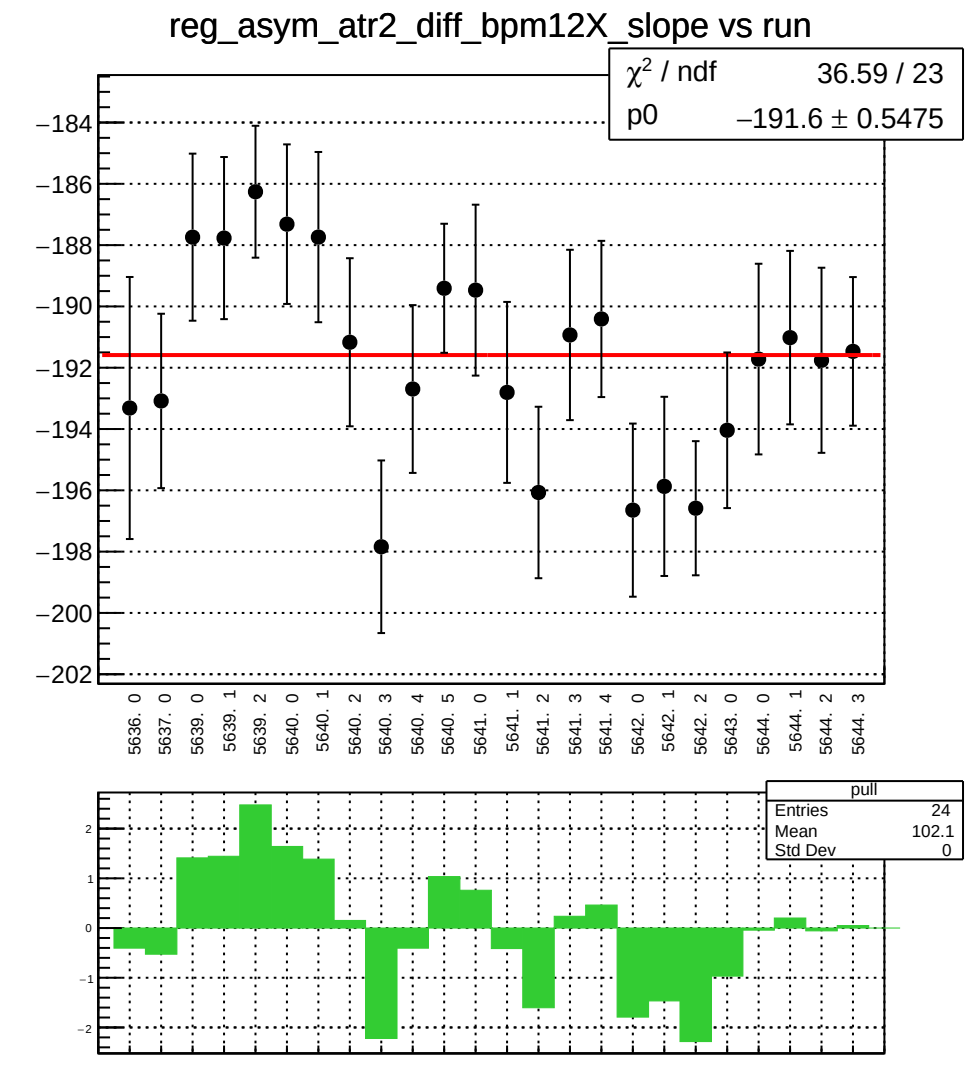

pull1D
Entries 24
Mean 0.01462
Std Dev 0.3567
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

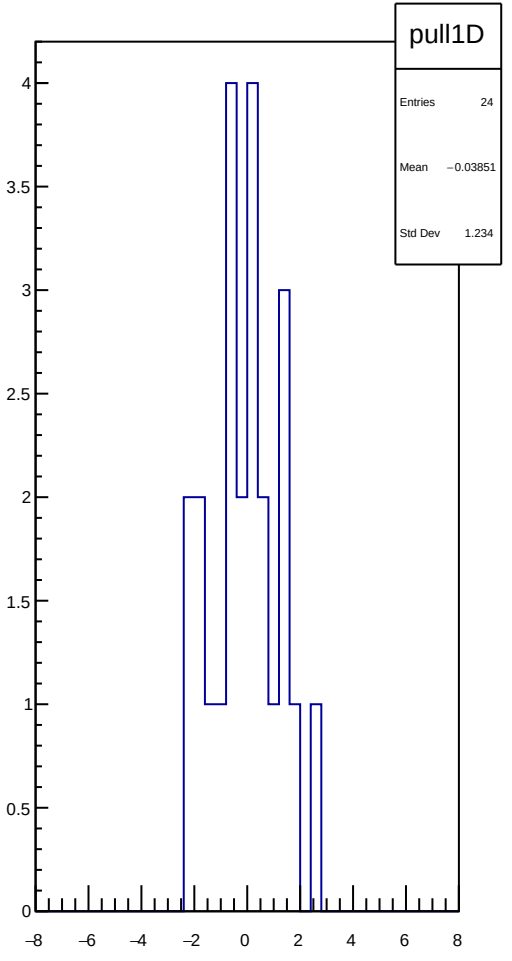

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 3.686 / 23
p0 9.852 ± 8.648
150
100
50
0
−50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 22.76
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 24
Mean 0.08407
Std Dev 0.3828
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

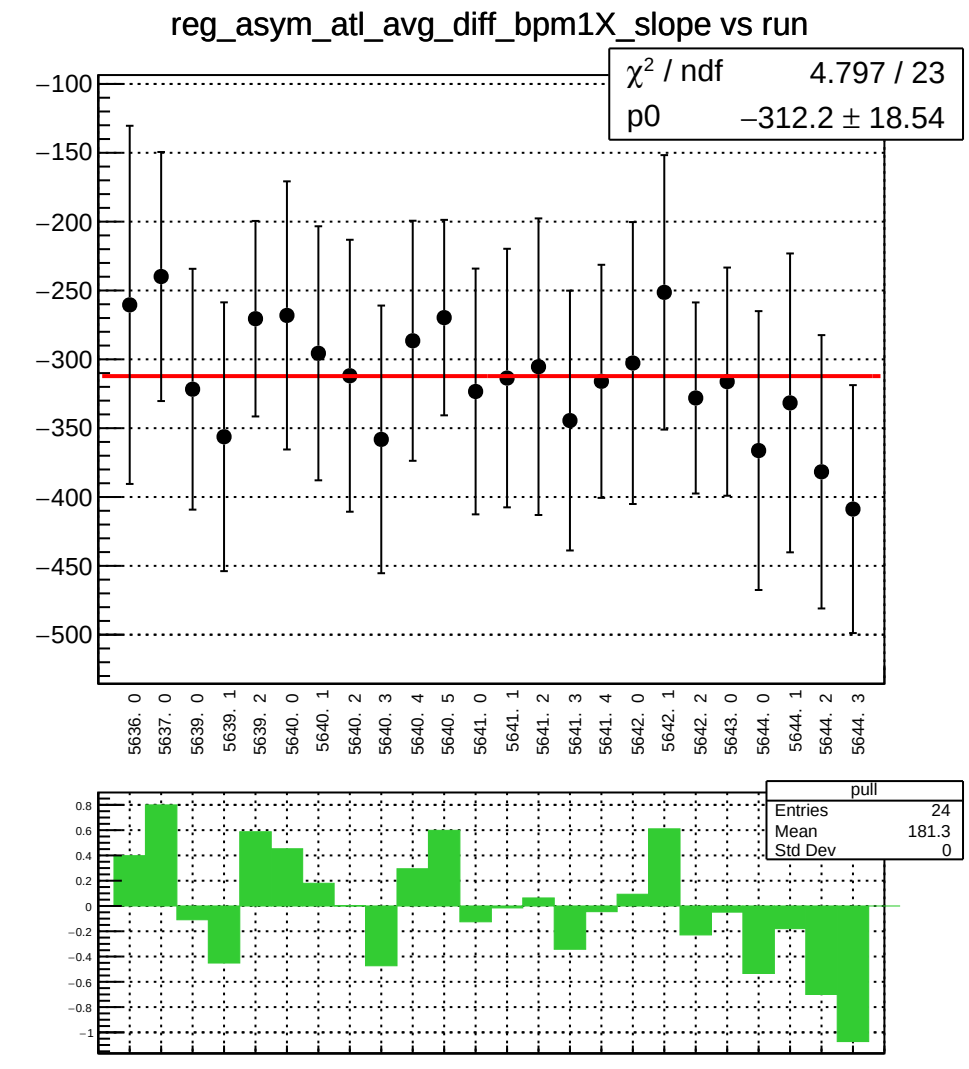

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 2.979 / 23
p0 374.3 ± 13.48
500
450
400
350
300
250
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −37.25
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 24
Mean −0.01488
Std Dev 0.352
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

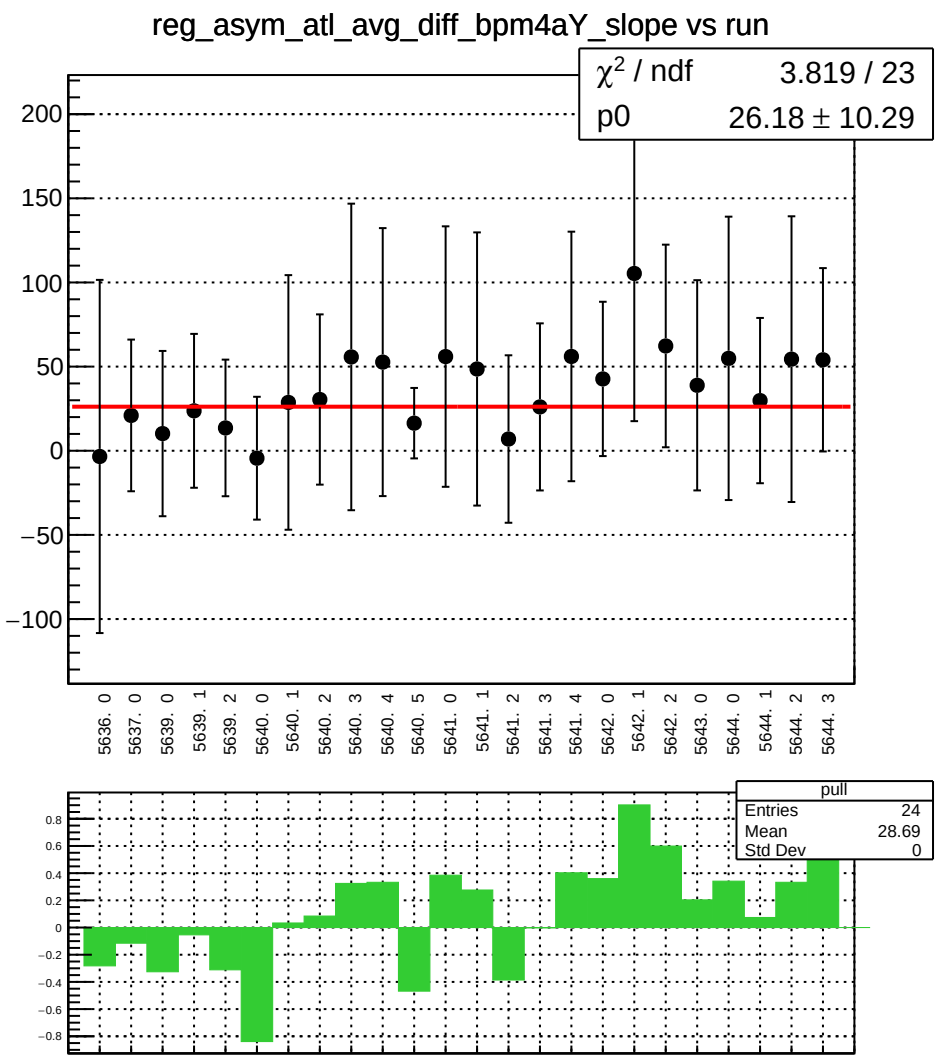

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 3.235 / 23
p0 82.29 ± 11
200
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 23.14
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

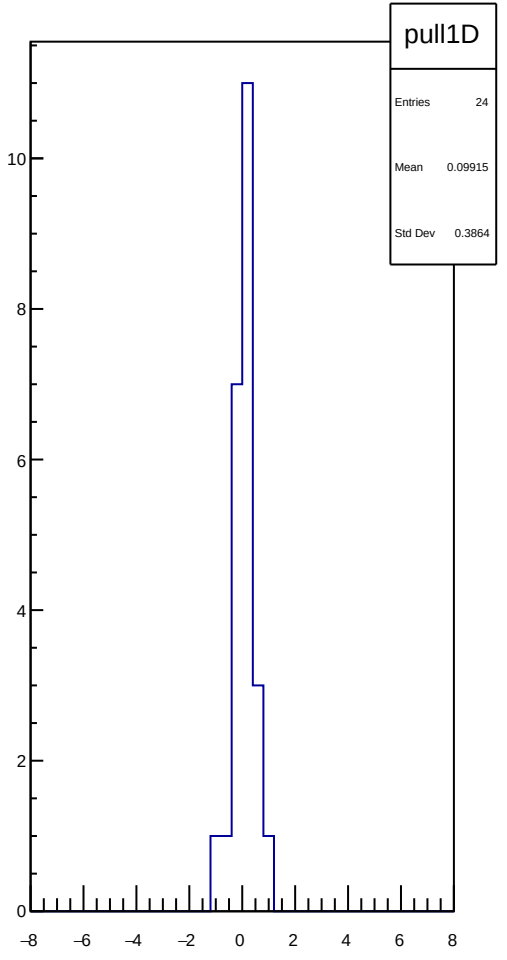

pull1D
Entries 24
Mean −0.06322
Std Dev 0.3617
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

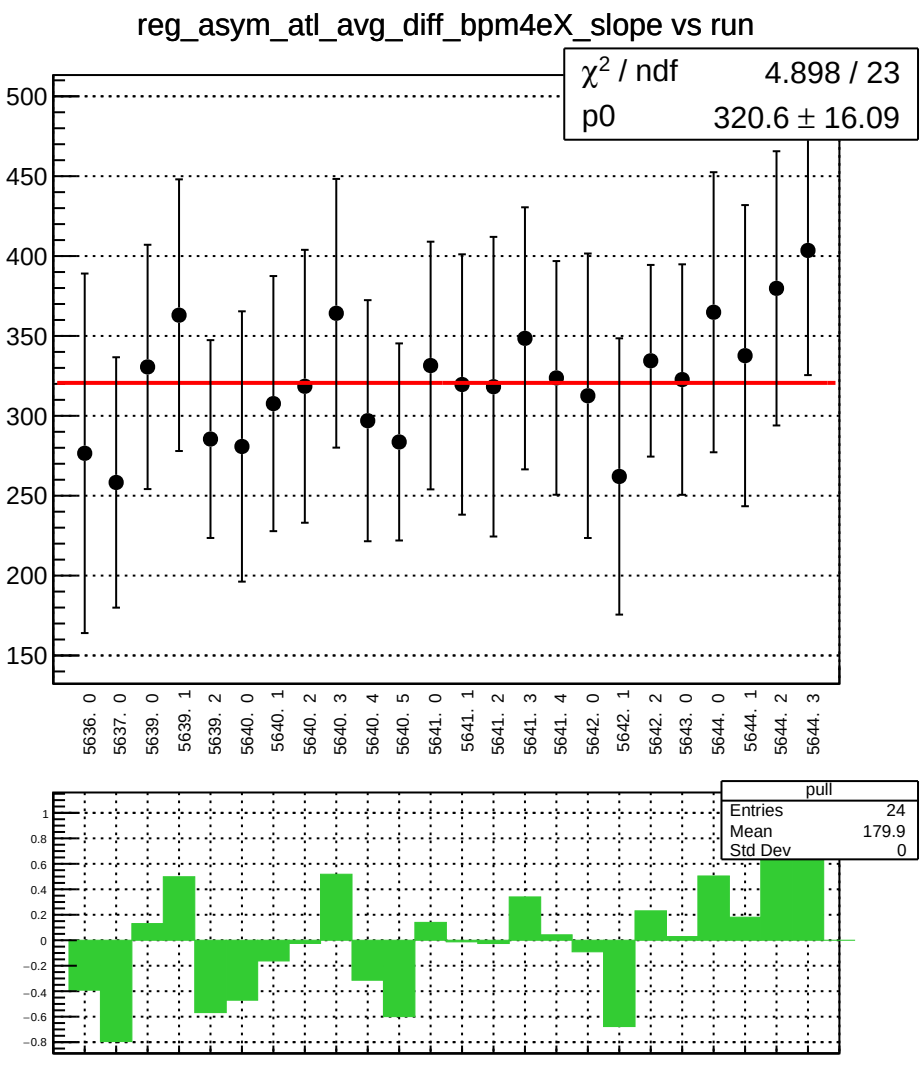

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 36.59 / 23
p0 −191.6 ± 0.5475
−184
−186
−188
−190
−192
−194
−196
−198
−200
−202
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 102.1
Std Dev 0
2
1
0
−1
−2

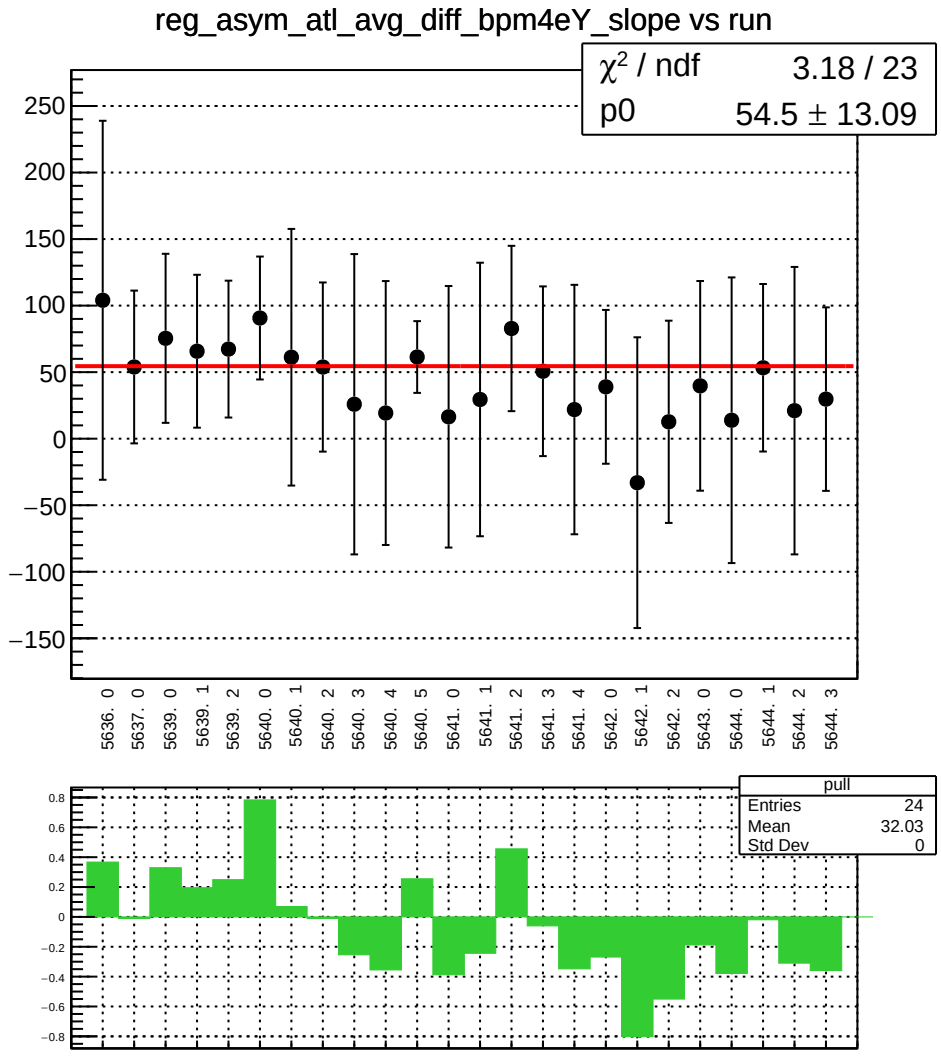

pull1D
Entries 24
Mean −0.03851
Std Dev 1.234
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

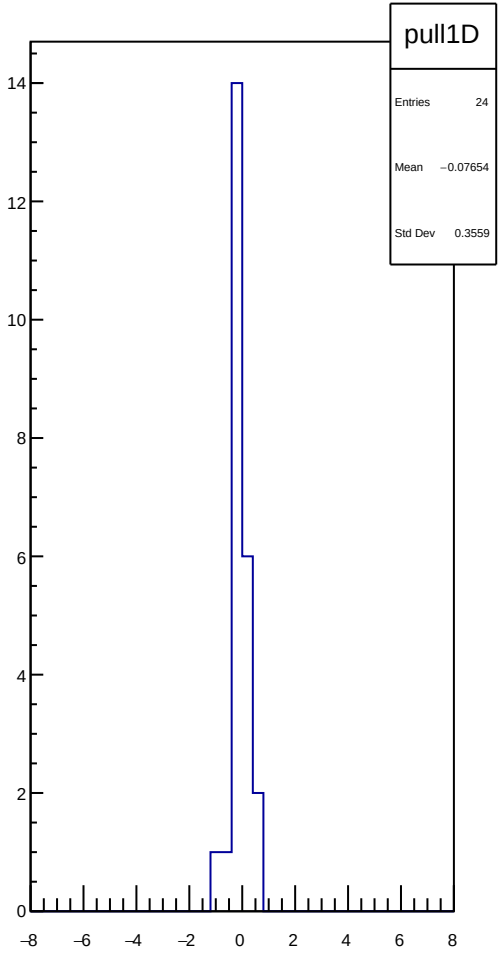

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 4.797 / 23
p0 −312.2 ± 18.54
−100
−150
−200
−250
−300
−350
−400
−450
−500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 181.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 24
Mean −0.01016
Std Dev 0.447
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

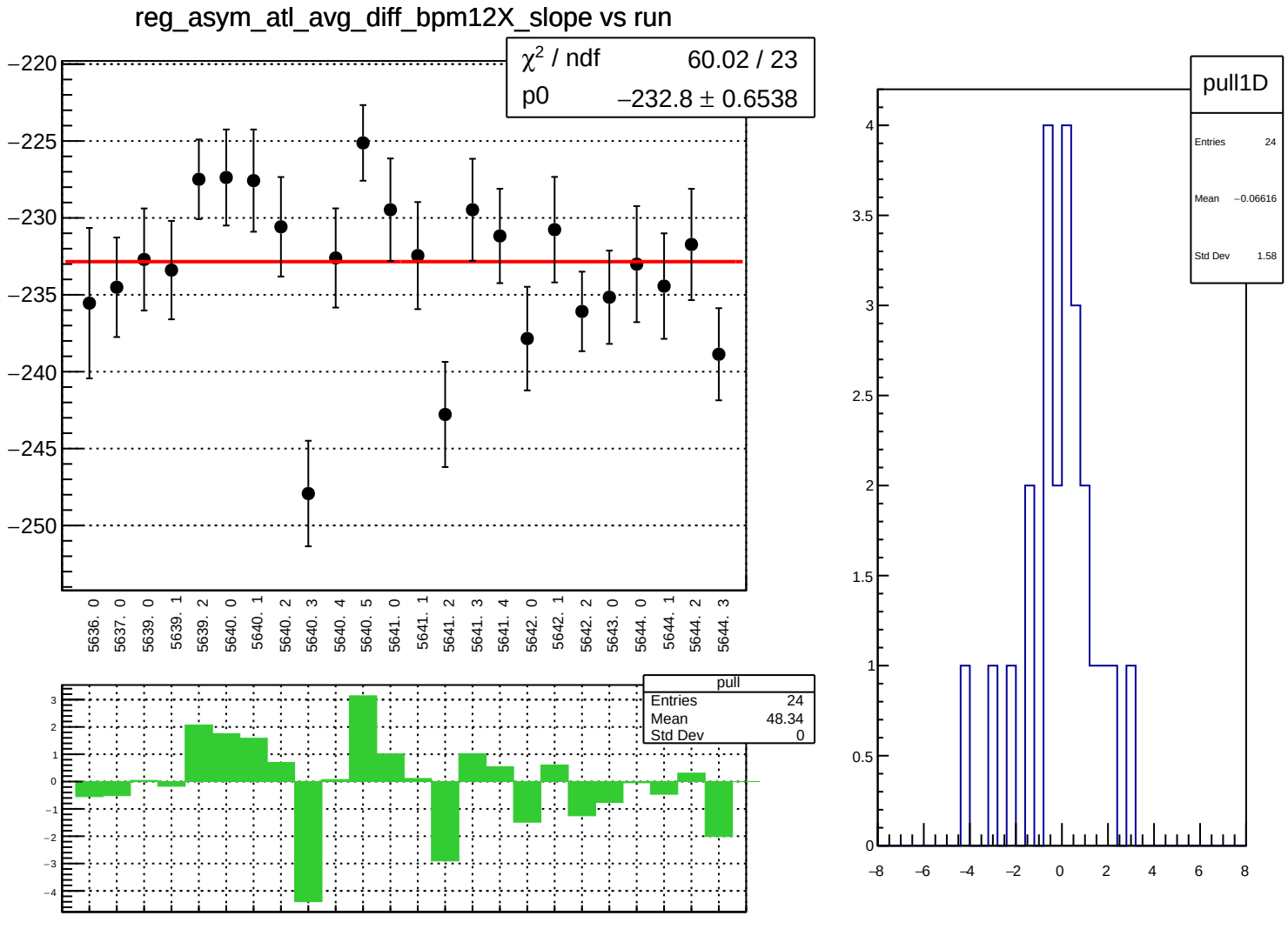

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.819 / 23
p0 26.18 ± 10.29
200
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 28.69
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

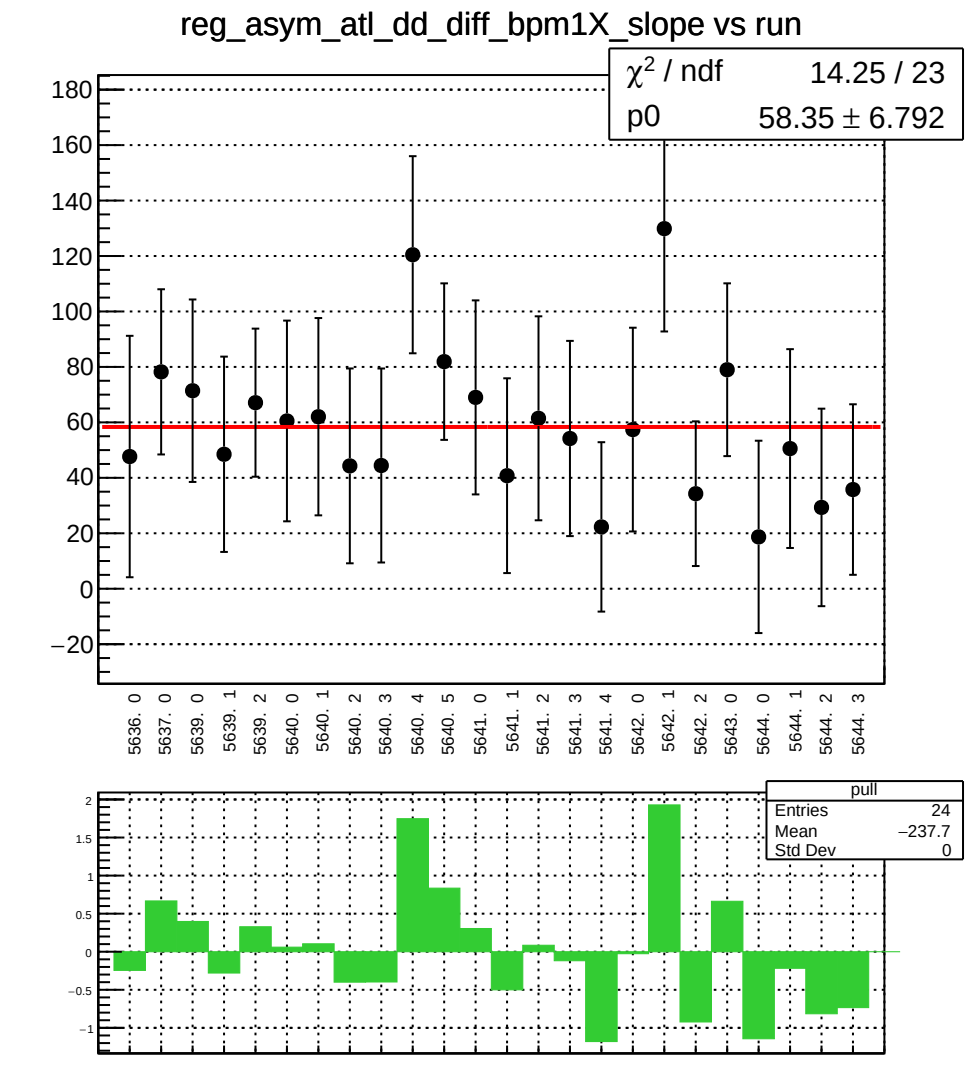

pull1D
Entries 24
Mean 0.09915
Std Dev 0.3864
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

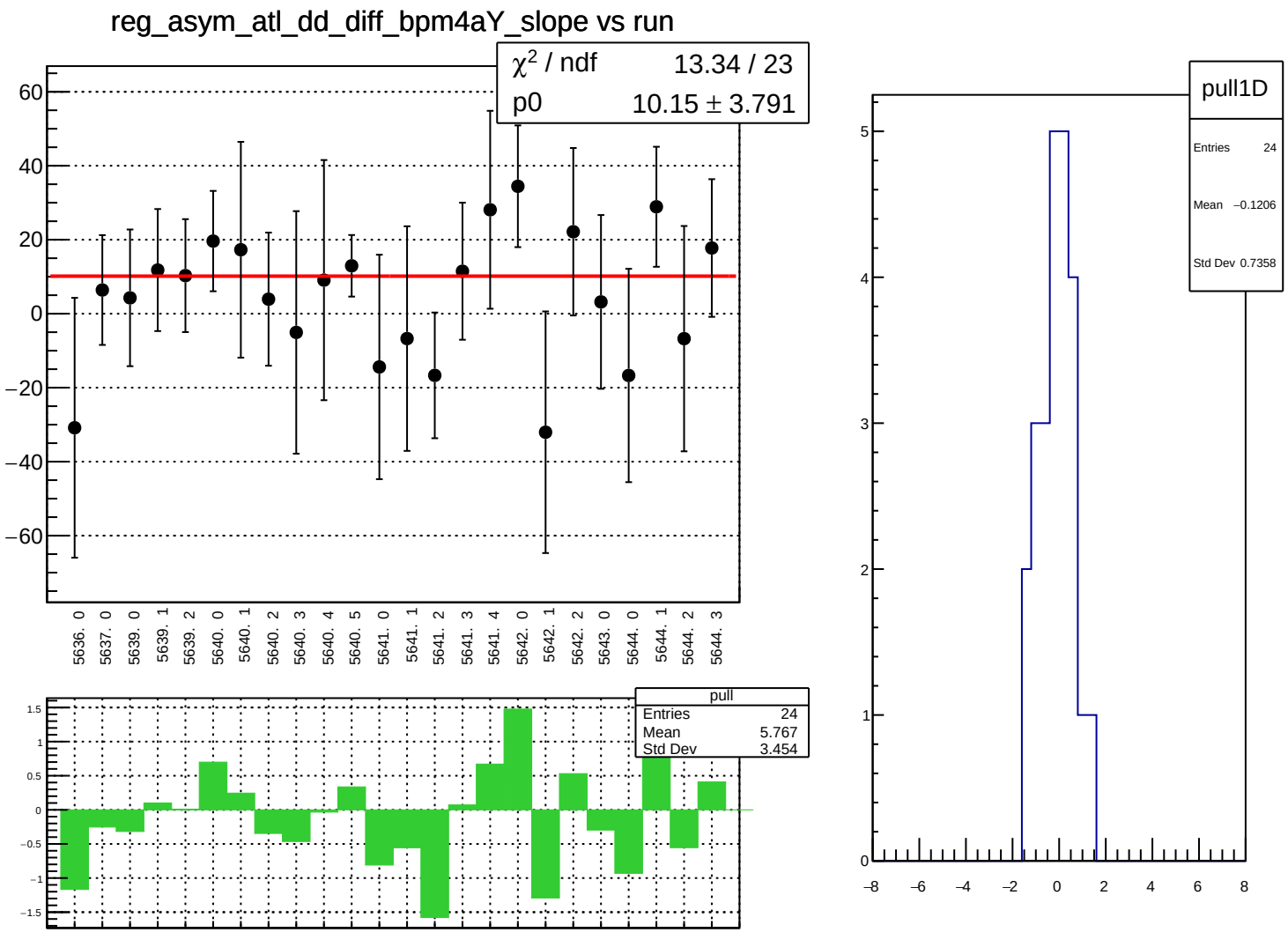

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.898 / 23
p0 320.6 ± 16.09
500
450
400
350
300
250
200
150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 179.9
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean 0.009802
Std Dev 0.4517
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

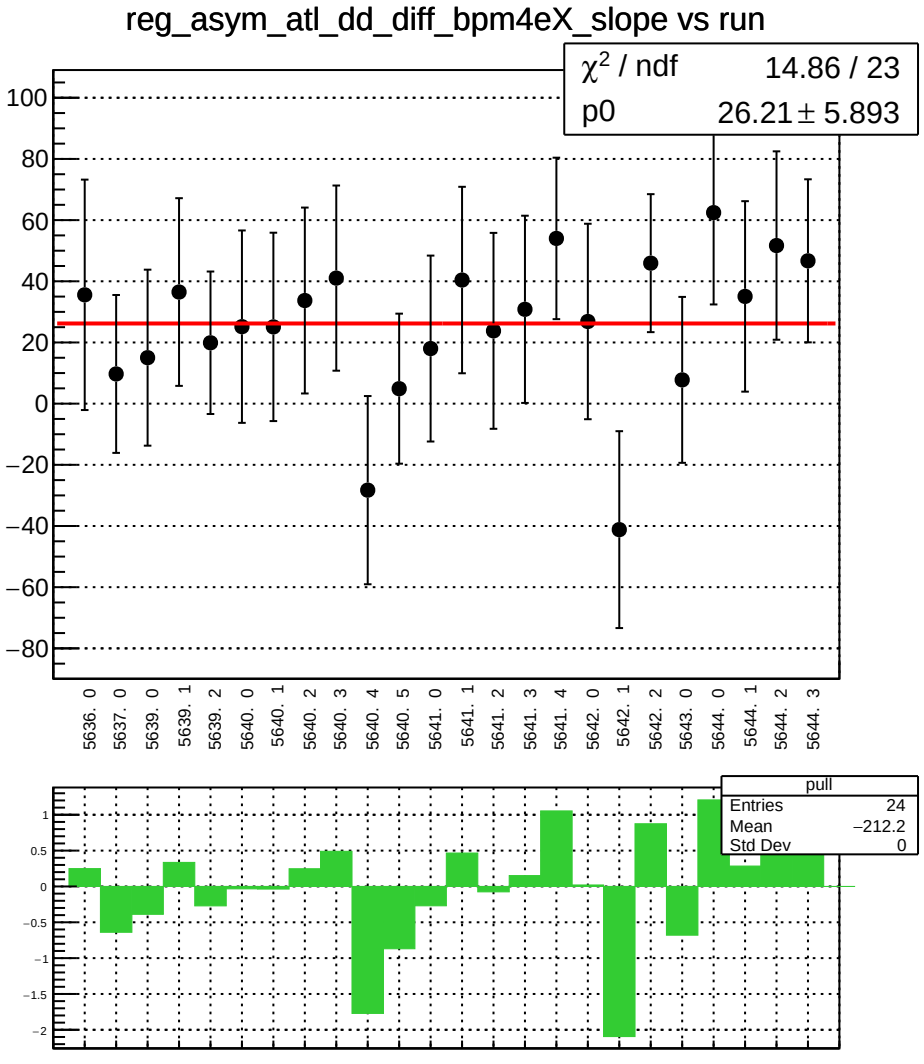

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.18 / 23
p0 54.5 ± 13.09
250
200
150
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 32.03
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

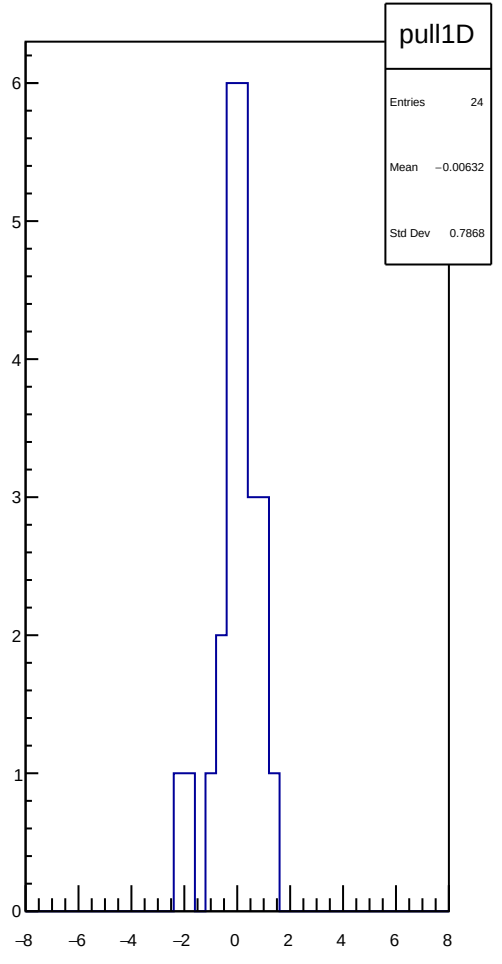

pull1D
Entries 24
Mean −0.07654
Std Dev 0.3559
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

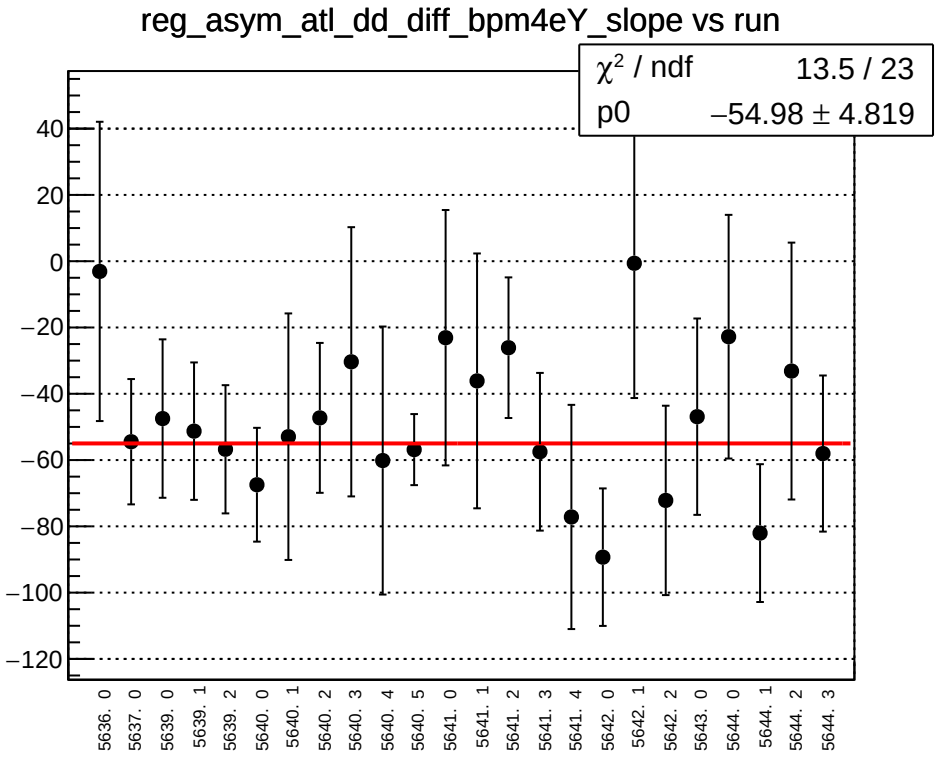

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 60.02 / 23
p0 −232.8 ± 0.6538
−220
−225
−230
−235
−240
−245
−250
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 48.34
Std Dev 0
pull1D
Entries 24
Mean −0.06616
Std Dev 1.58

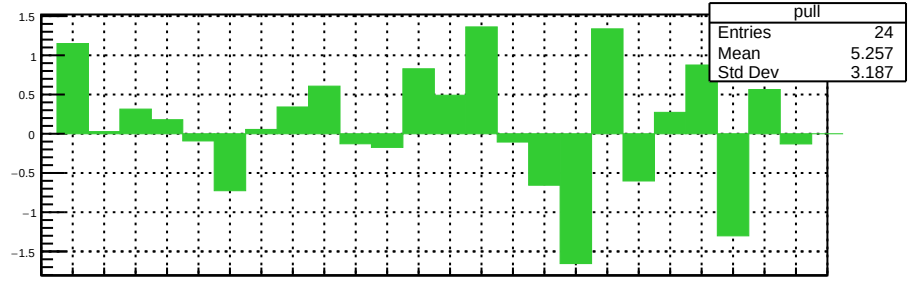

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 14.25 / 23
p0 58.35 ± 6.792
180
160
140
120
100
80
60
40
20
0
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −237.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.005916
Std Dev 0.7706
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

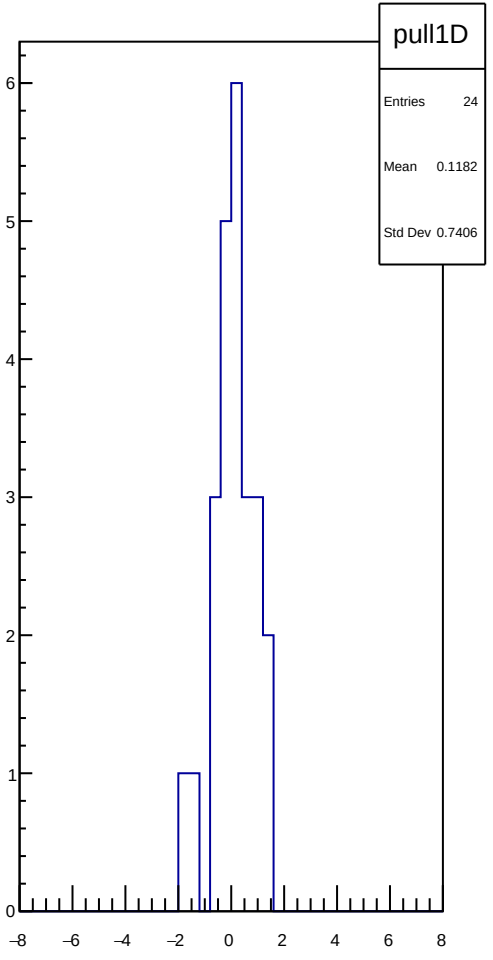

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.34 / 23
p0 10.15 ± 3.791
60
40
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 5.767
Std Dev 3.454
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.1206
Std Dev 0.7358
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

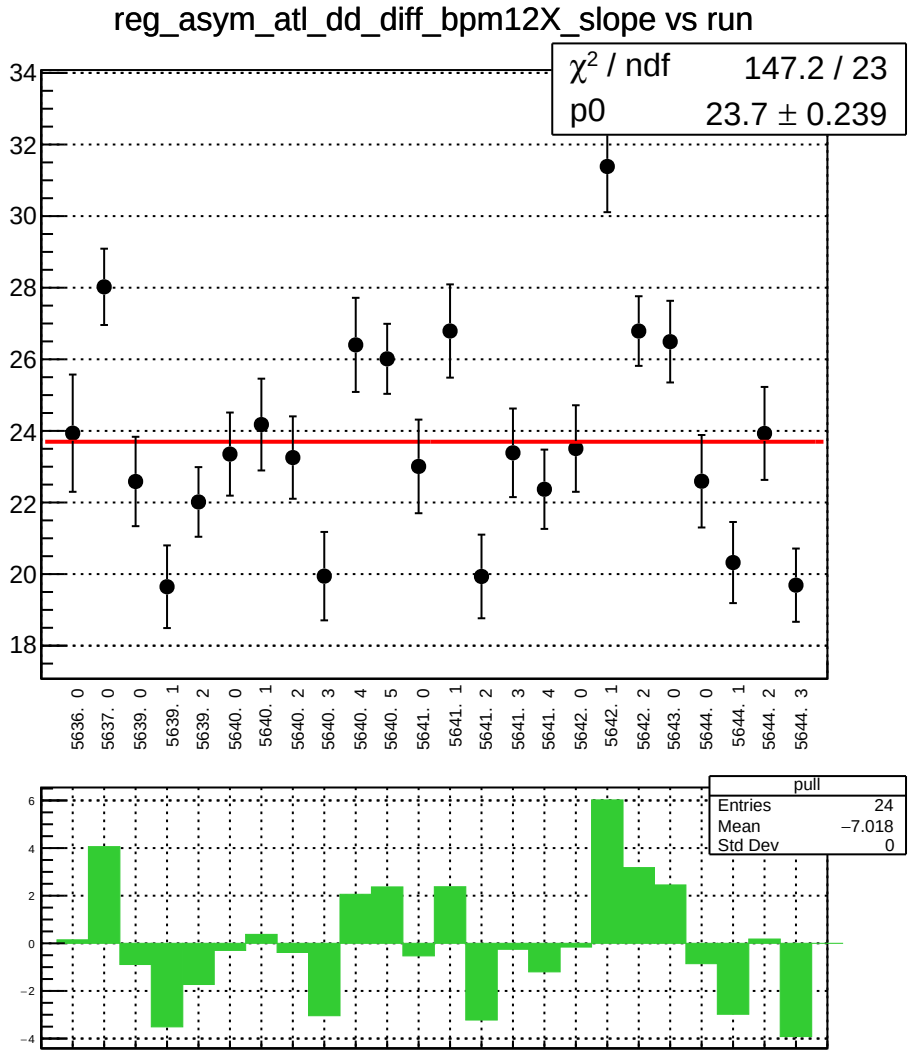

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.86 / 23
p0 26.21 ± 5.893
100
80
60
40
20
0
−20
−40
−60
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −212.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

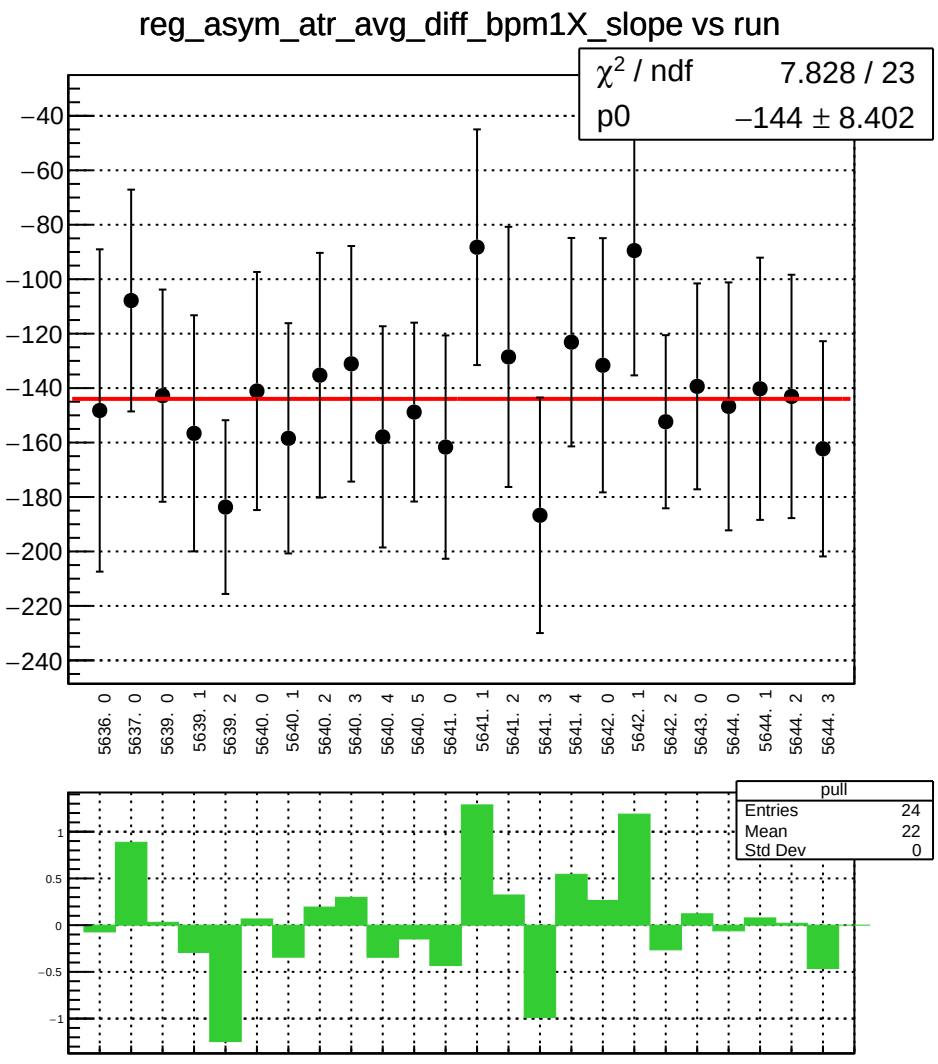

pull1D
Entries 24
Mean −0.00632
Std Dev 0.7868
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

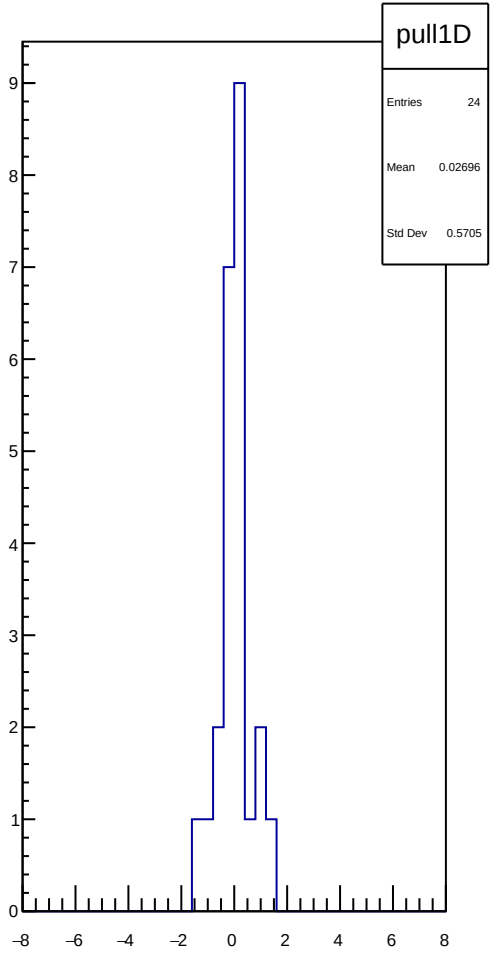

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.5 / 23
p0 −54.98 ± 4.819
40
20
0
−20
−40
−60
−80
−100
−120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

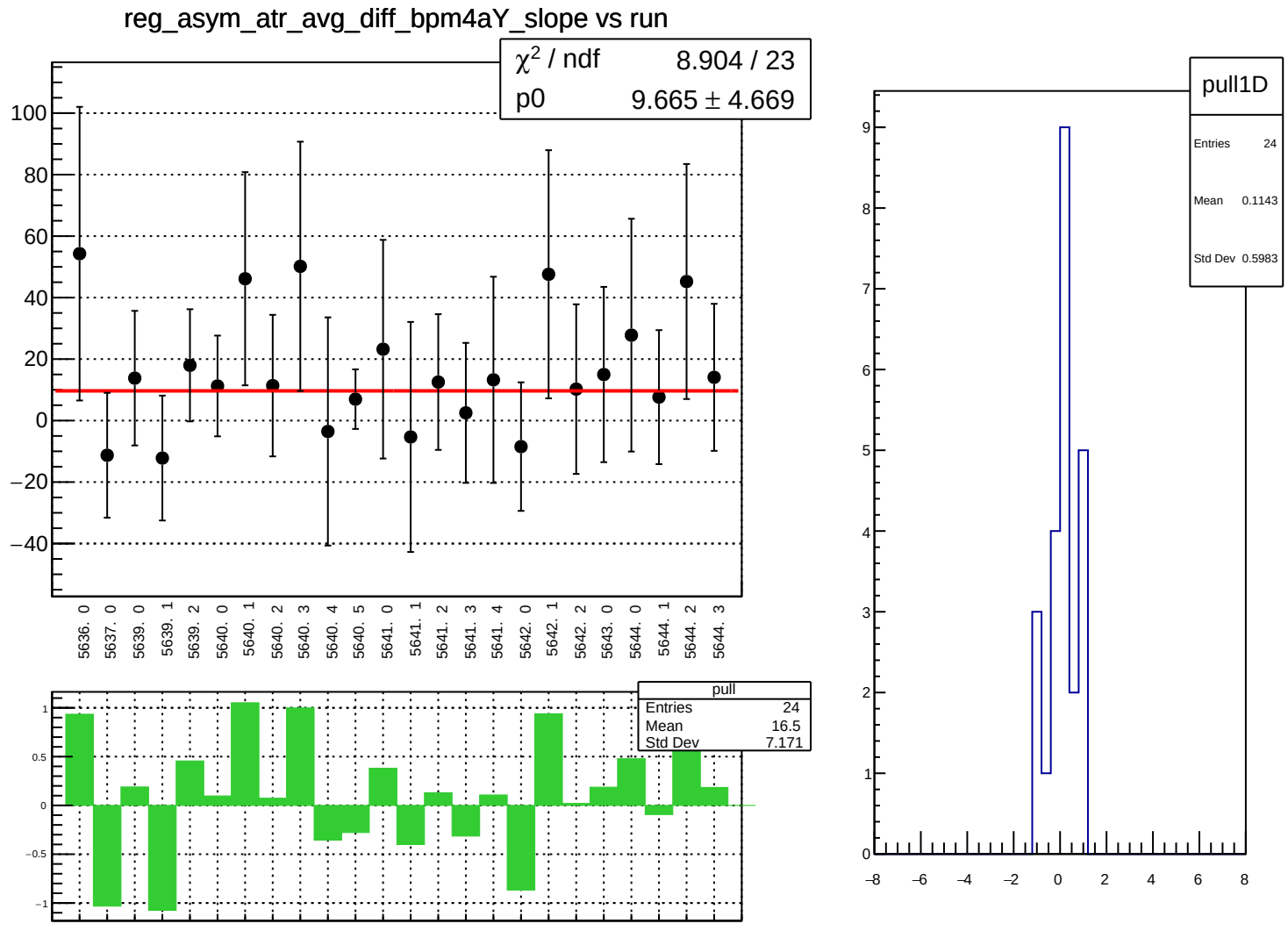

pull
Entries 24
Mean 5.257
Std Dev 3.187
1.5
1
0.5
0
−0.5
−1
−1.5

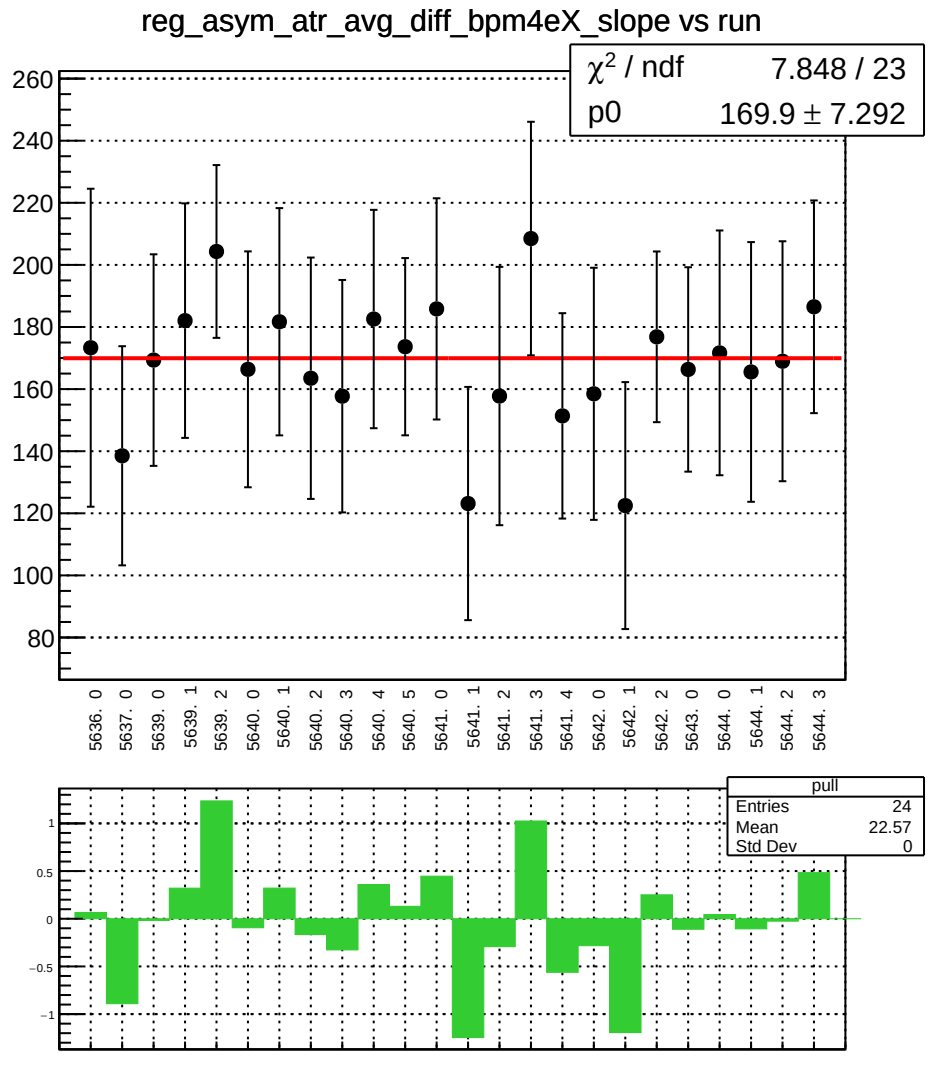

pull1D
Entries 24
Mean 0.1182
Std Dev 0.7406
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

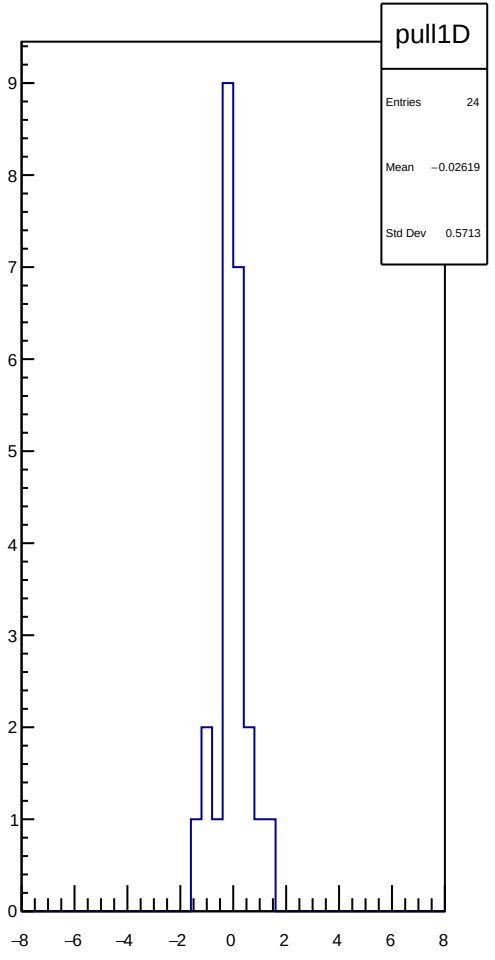

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 147.2 / 23
p0 23.7 ± 0.239
pull
Entries 24
Mean −7.018
Std Dev 0
pull1D
Entries 24
Mean 0.01089
Std Dev 2.477

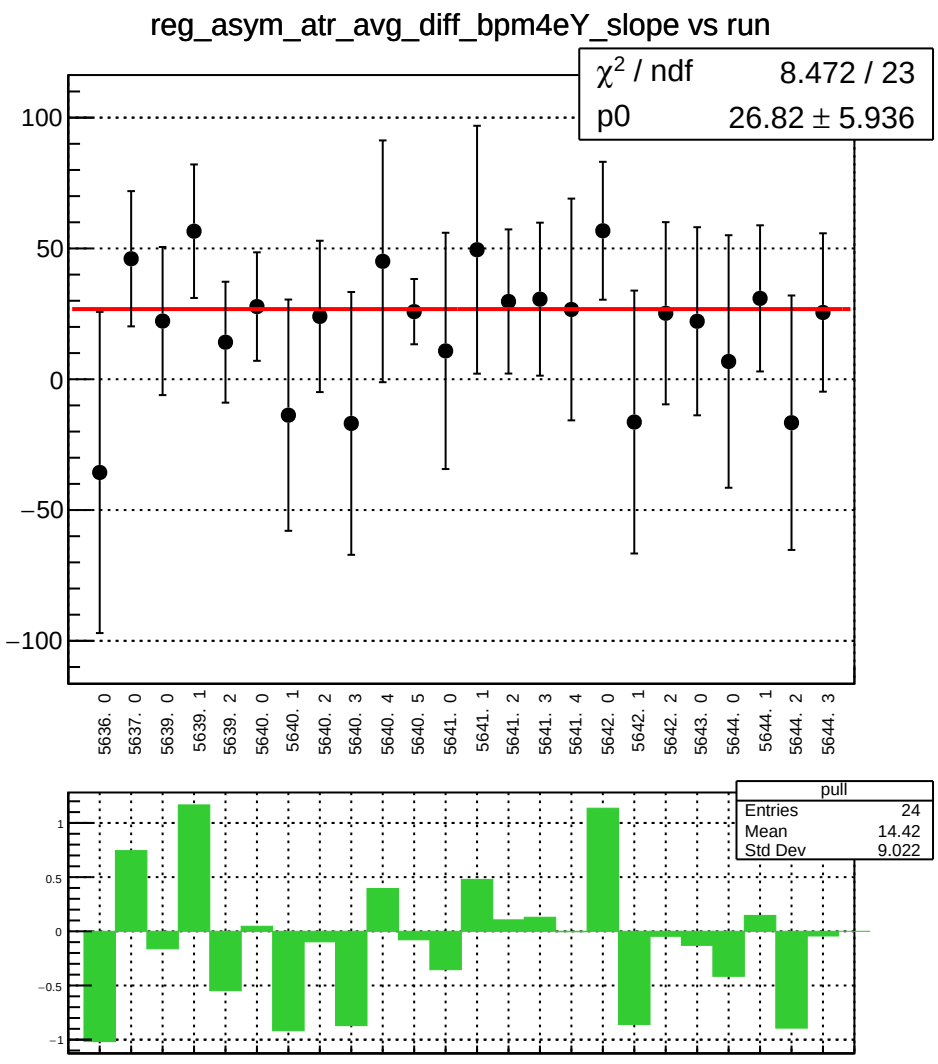

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 7.828 / 23
p0 −144 ± 8.402
−40
−60
−80
−100
−120
−140
−160
−180
−200
−220
−240
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 22
Std Dev 0
1
0.5
0
−0.5
−1

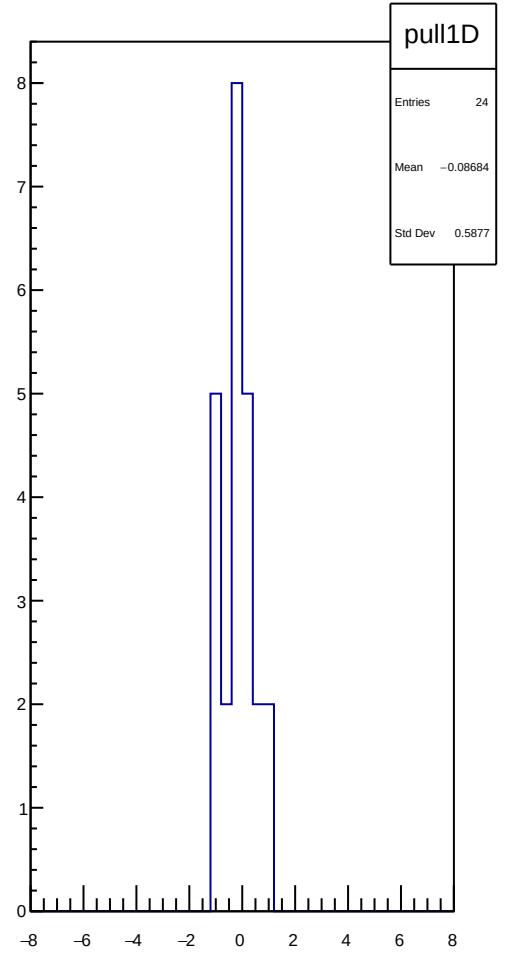

pull1D
Entries 24
Mean 0.02696
Std Dev 0.5705
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

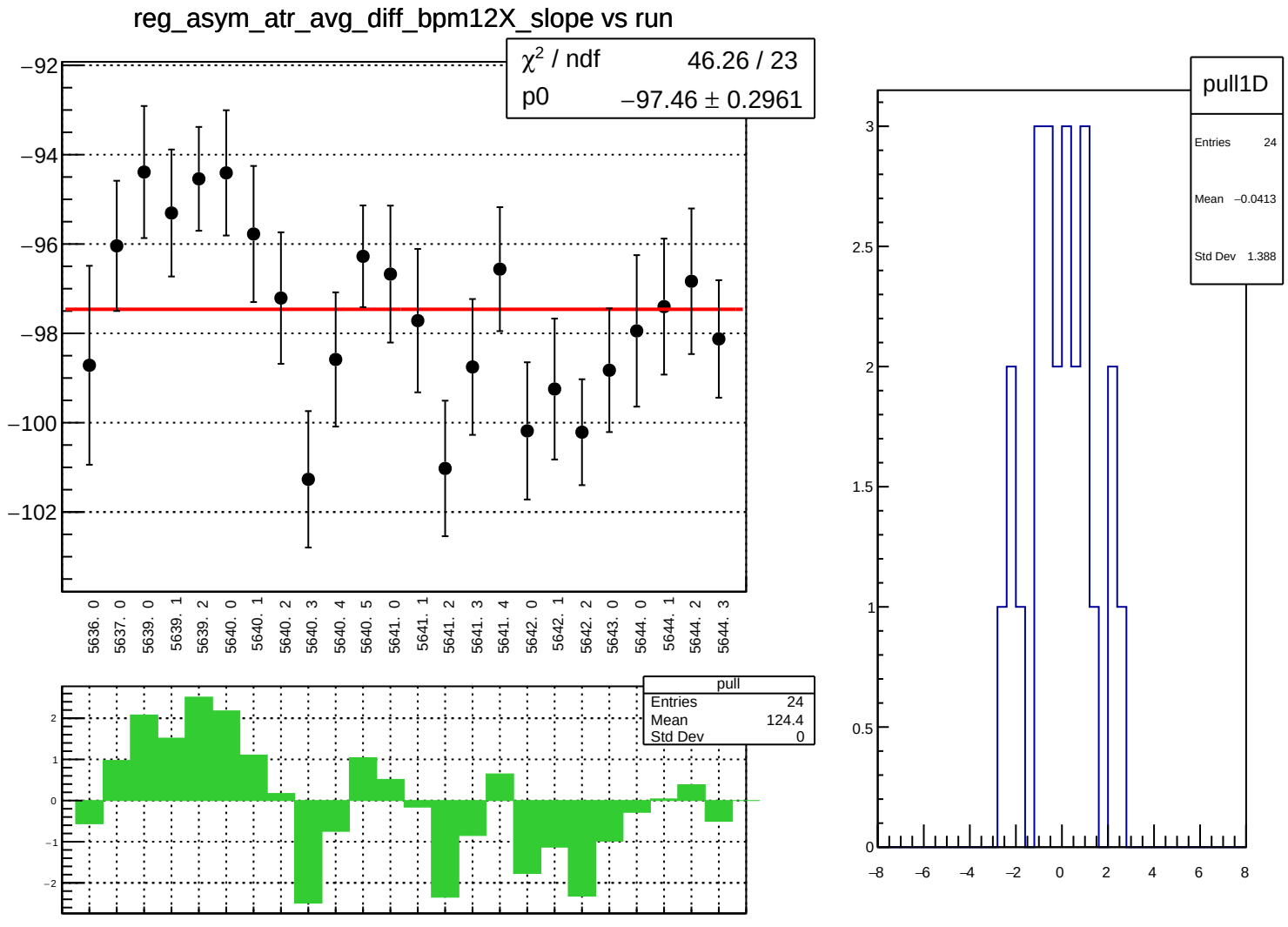

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.904 / 23
p0 9.665 ± 4.669
100
80
60
40
20
0
−20
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 16.5
Std Dev 7.171
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.1143
Std Dev 0.5983
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

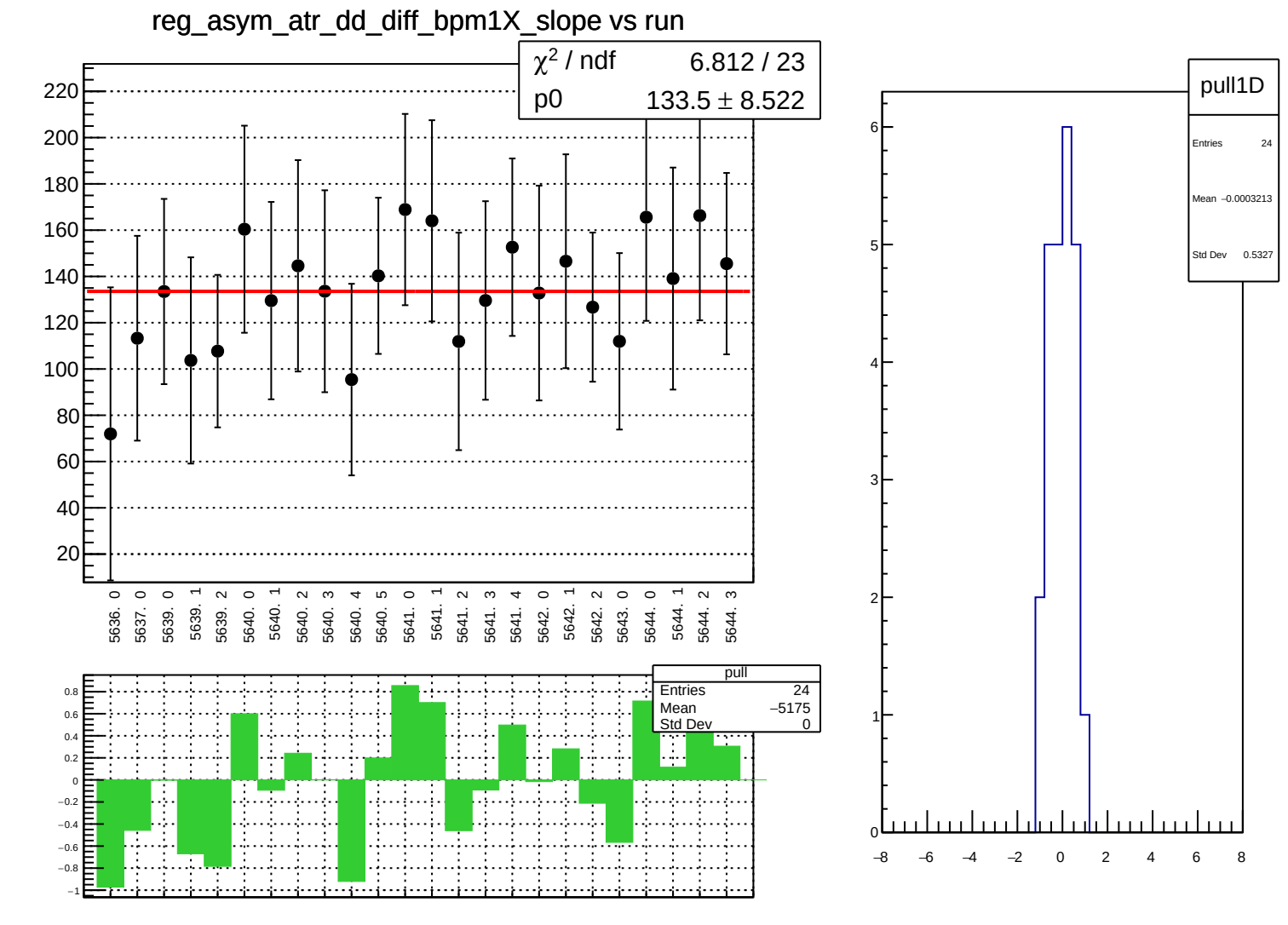

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.848 / 23
p0 169.9 ± 7.292
260
240
220
200
180
160
140
120
100
80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 22.57
Std Dev 0
1
0.5
0
−0.5
−1

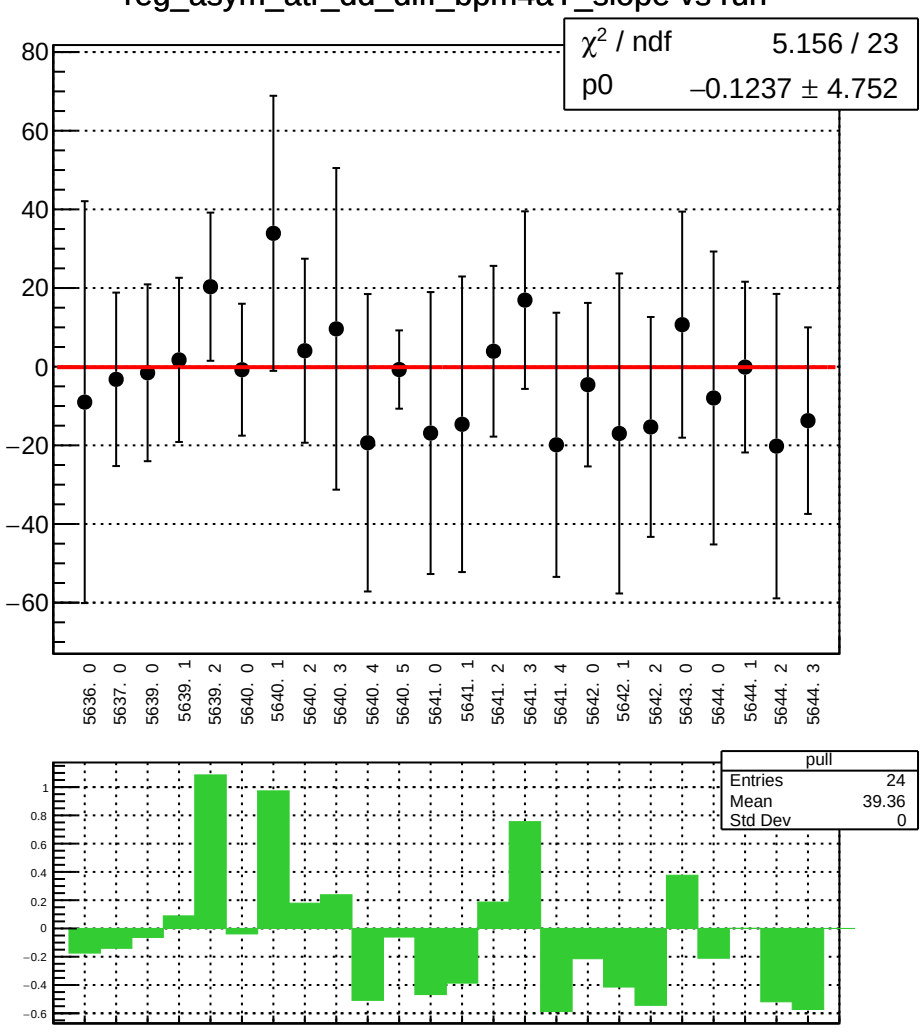

pull1D
Entries 24
Mean −0.02619
Std Dev 0.5713
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

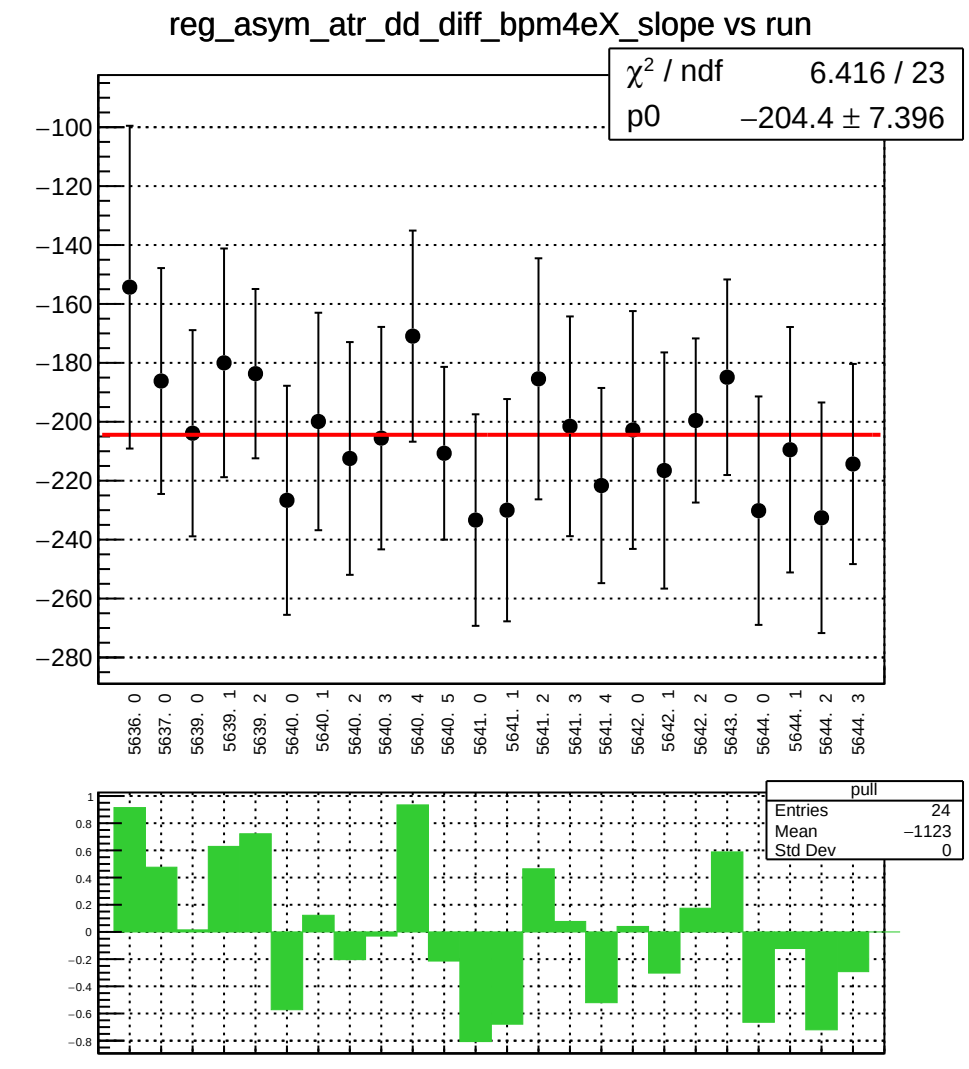

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.472 / 23
p0 26.82 ± 5.936
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 14.42
Std Dev 9.022
1
0.5
0
−0.5
−1

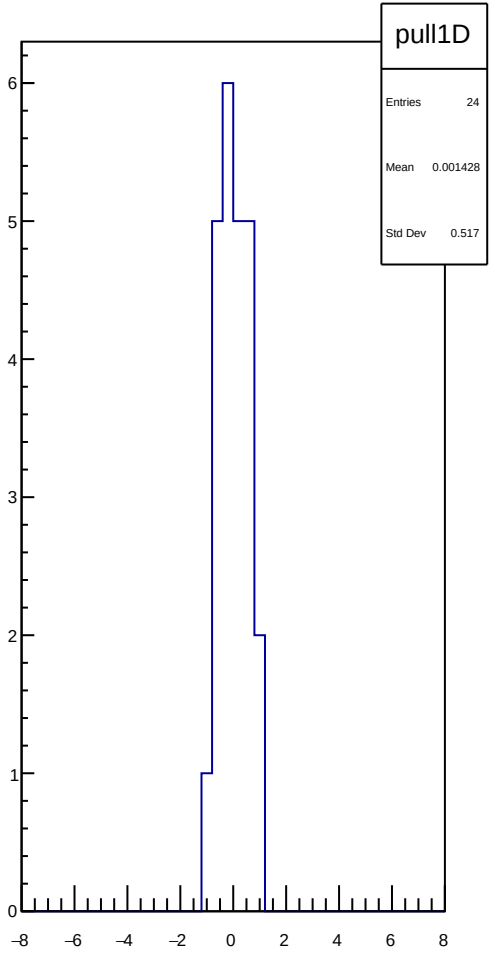

pull1D
Entries 24
Mean −0.08684
Std Dev 0.5877
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

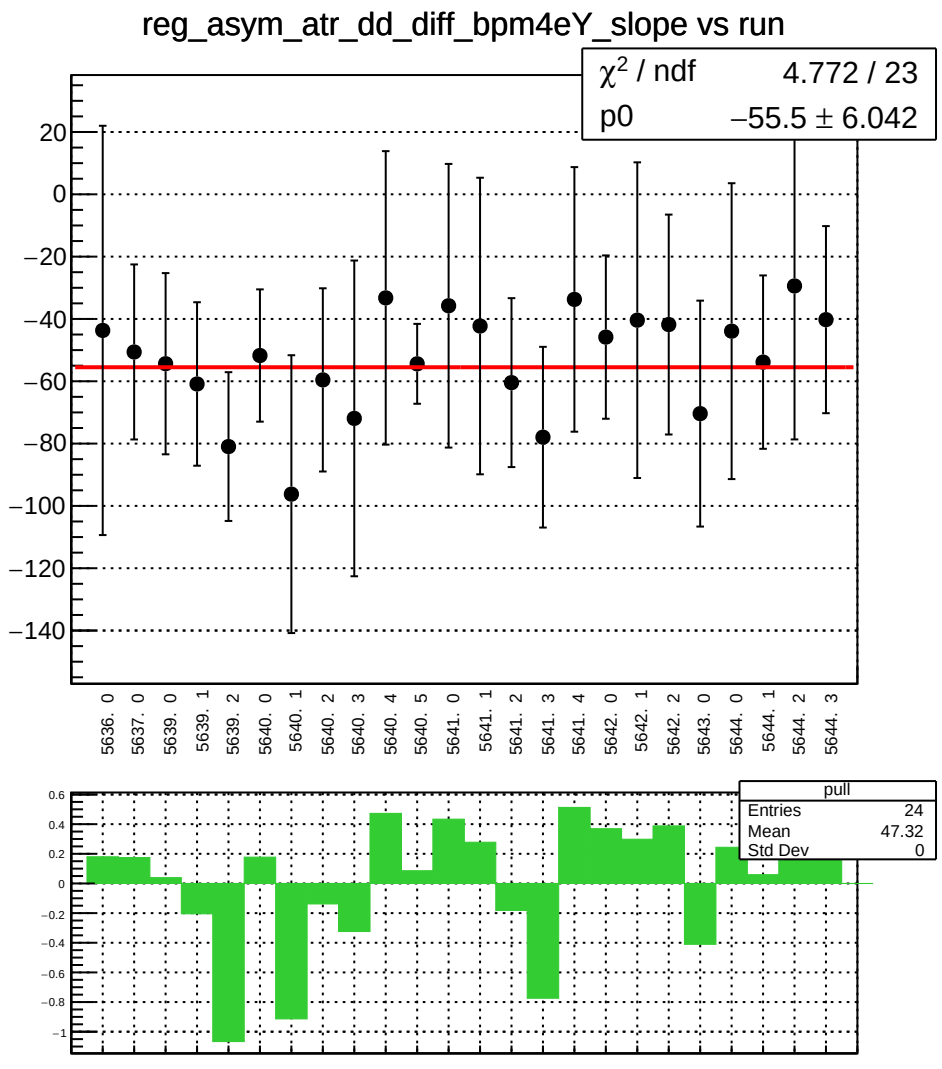

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 46.26 / 23
p0 −97.46 ± 0.2961
−92
−94
−96
−98
−100
−102
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 124.4
Std Dev 0
pull1D
Entries 24
Mean −0.0413
Std Dev 1.388

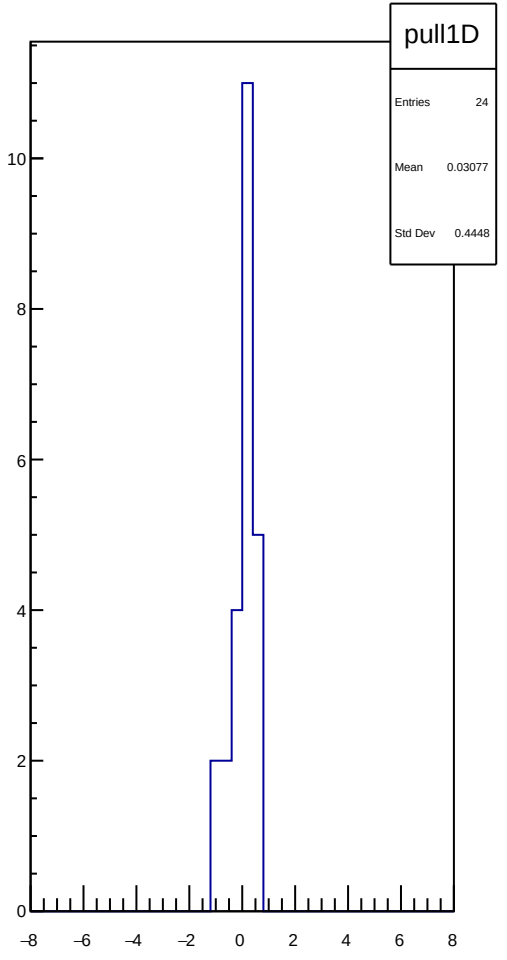

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 6.812 / 23
p0 133.5 ± 8.522
220
200
180
160
140
120
100
80
60
40
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −5175
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 24
Mean −0.0003213
Std Dev 0.5327
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

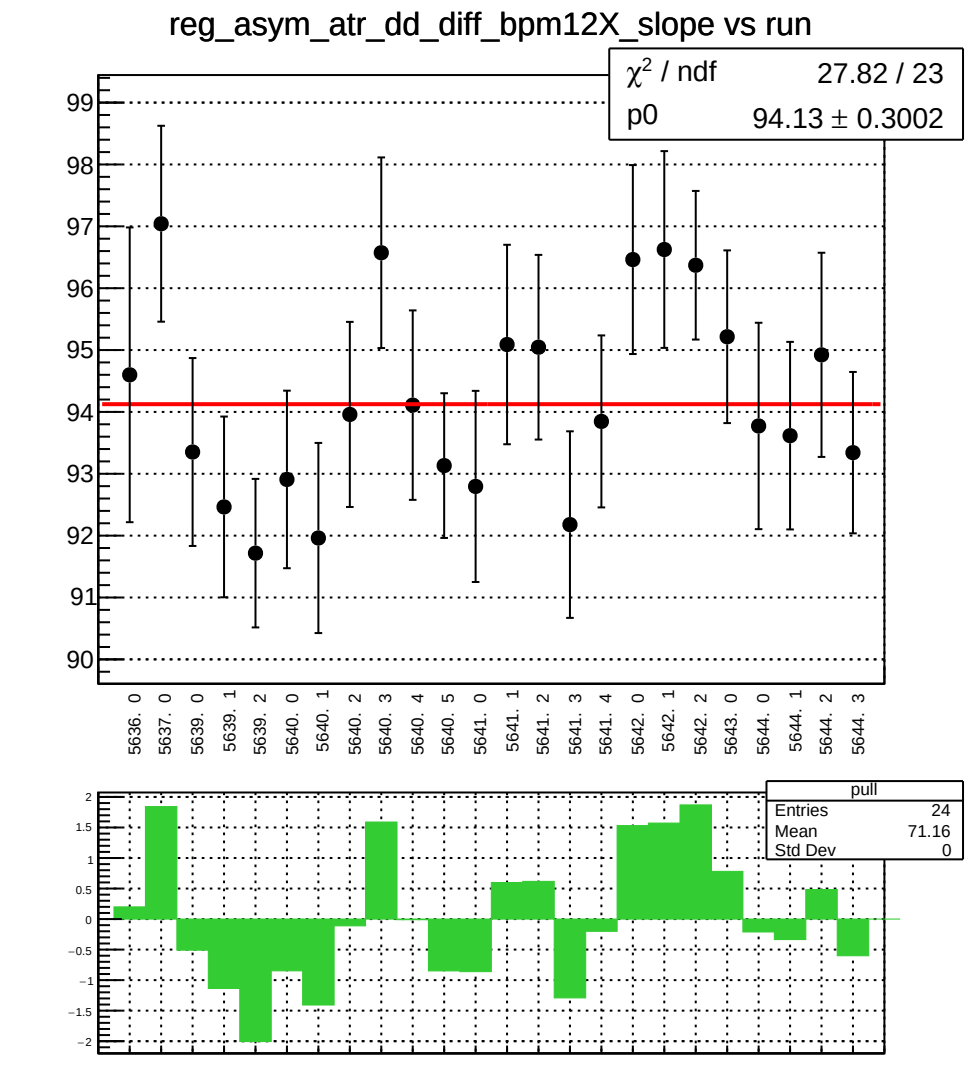

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.156 / 23
p0 −0.1237 ± 4.752
80
60
40
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 39.36
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 24
Mean −0.04238
Std Dev 0.4615
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

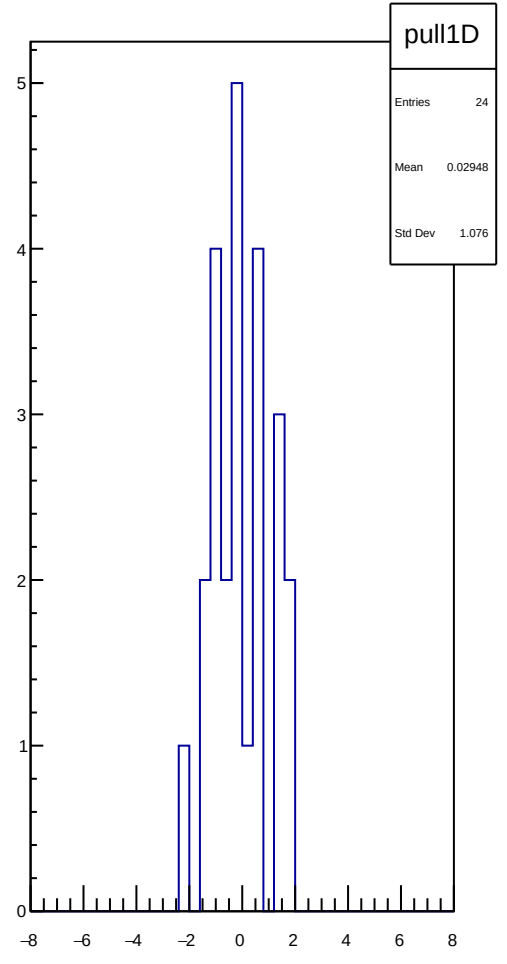

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.416 / 23
p0 −204.4 ± 7.396
−100
−120
−140
−160
−180
−200
−220
−240
−260
−280
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −1123
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

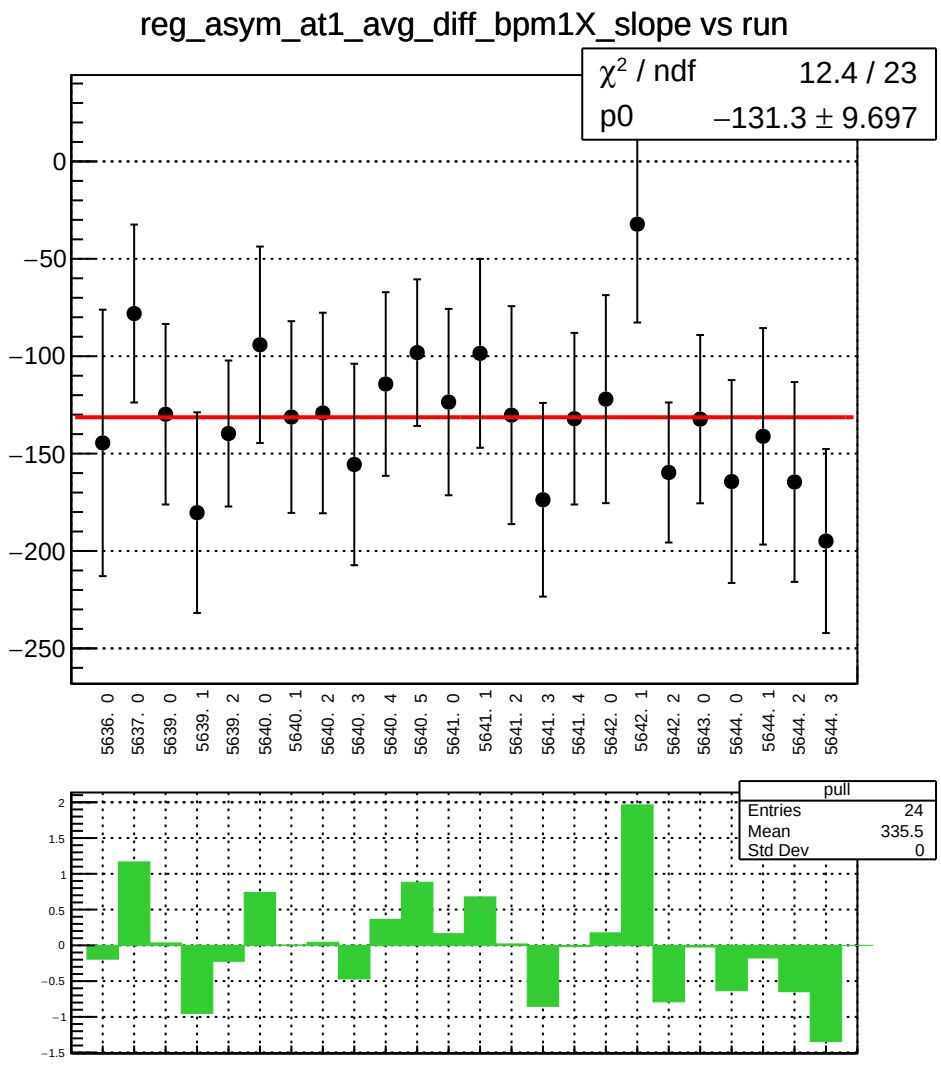

pull1D
Entries 24
Mean 0.001428
Std Dev 0.517
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

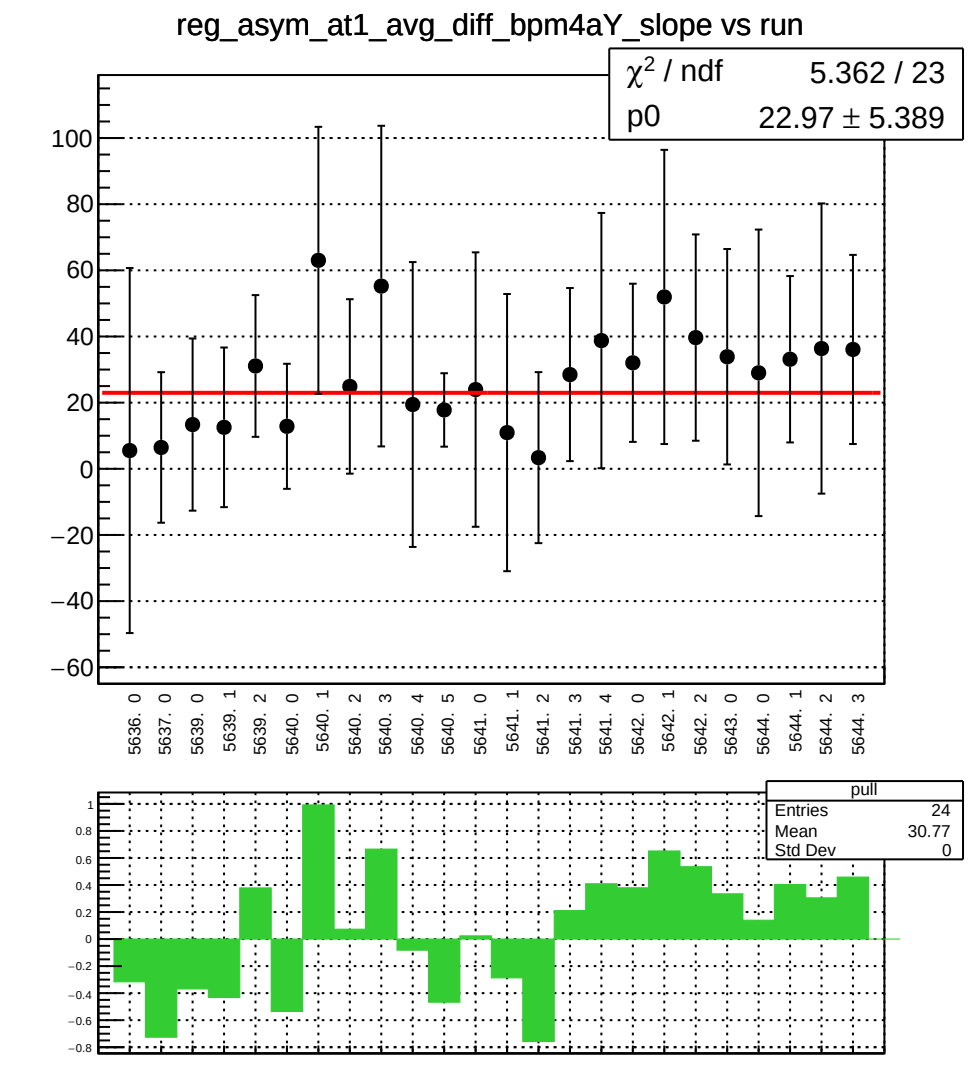

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.772 / 23
p0 −55.5 ± 6.042
20
0
−20
−40
−60
−80
−100
−120
−140
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 47.32
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

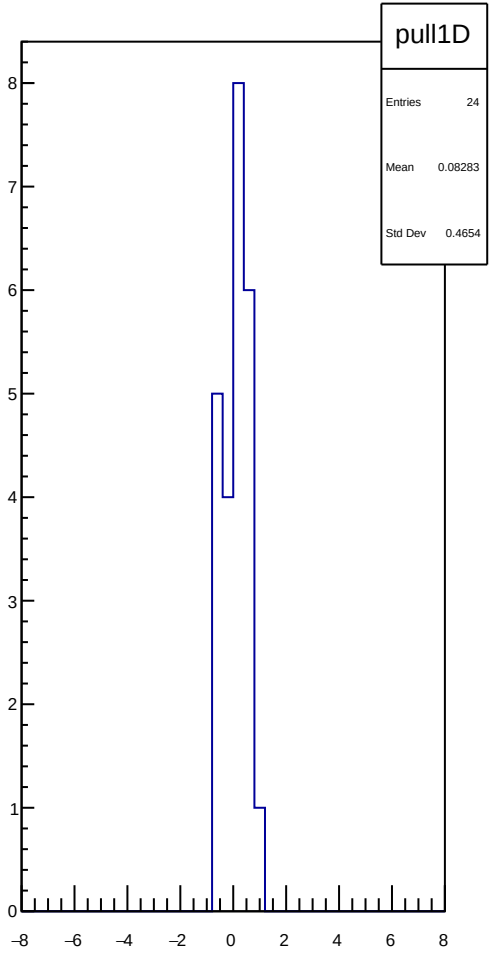

pull1D
Entries 24
Mean 0.03077
Std Dev 0.4448
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

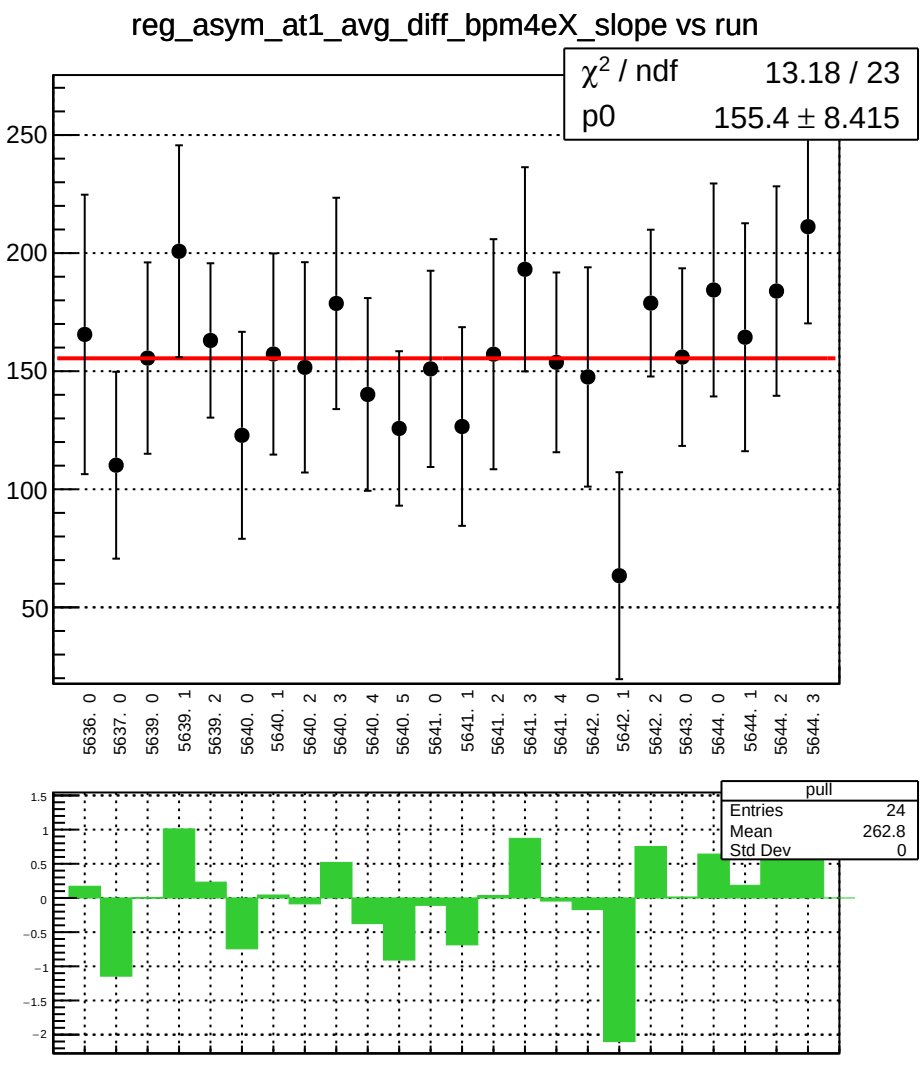

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 27.82 / 23
p0 94.13 ± 0.3002
99
98
97
96
95
94
93
92
91
90
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 71.16
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

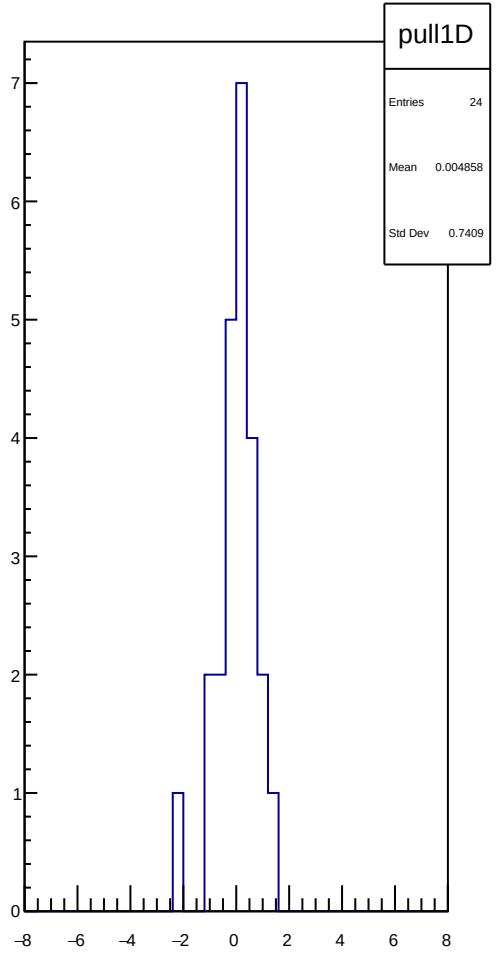

pull1D
Entries 24
Mean 0.02948
Std Dev 1.076
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

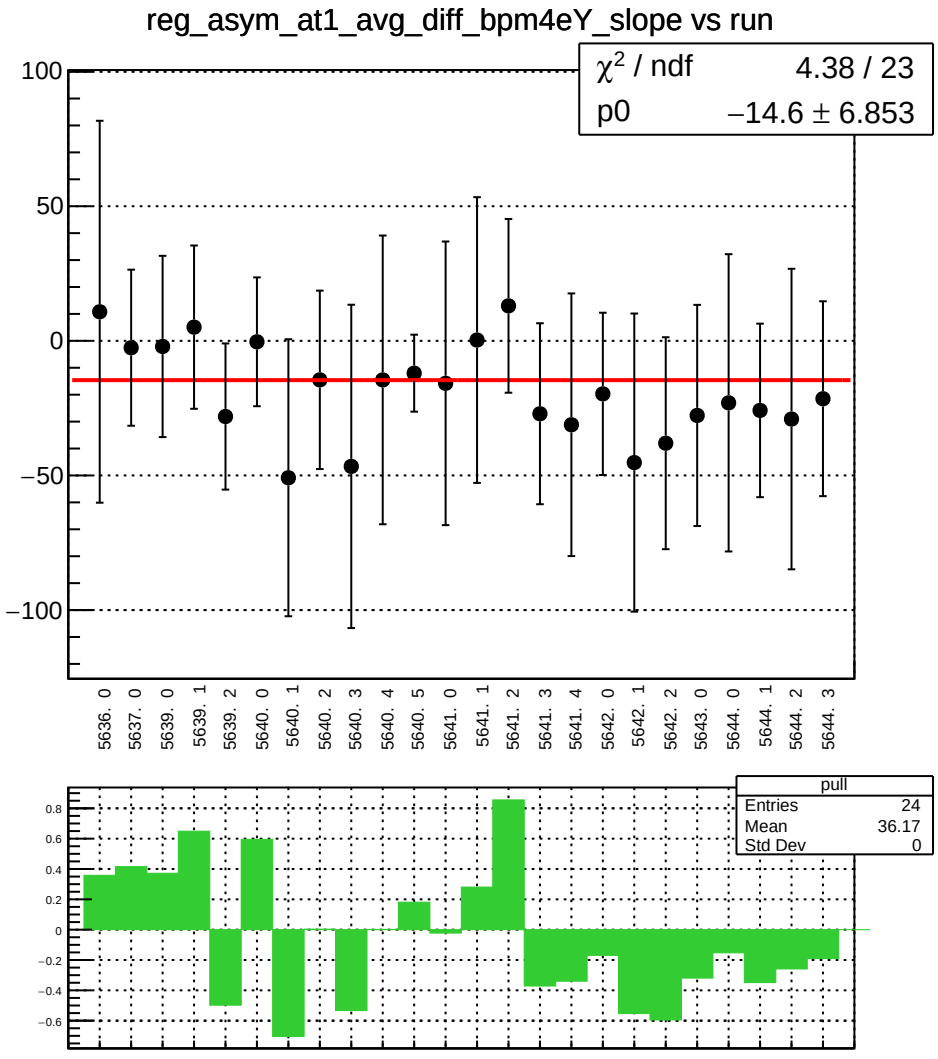

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 12.4 / 23
p0 −131.3 ± 9.697
0
−50
−100
−150
−200
−250
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 335.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.004008
Std Dev 0.7189
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

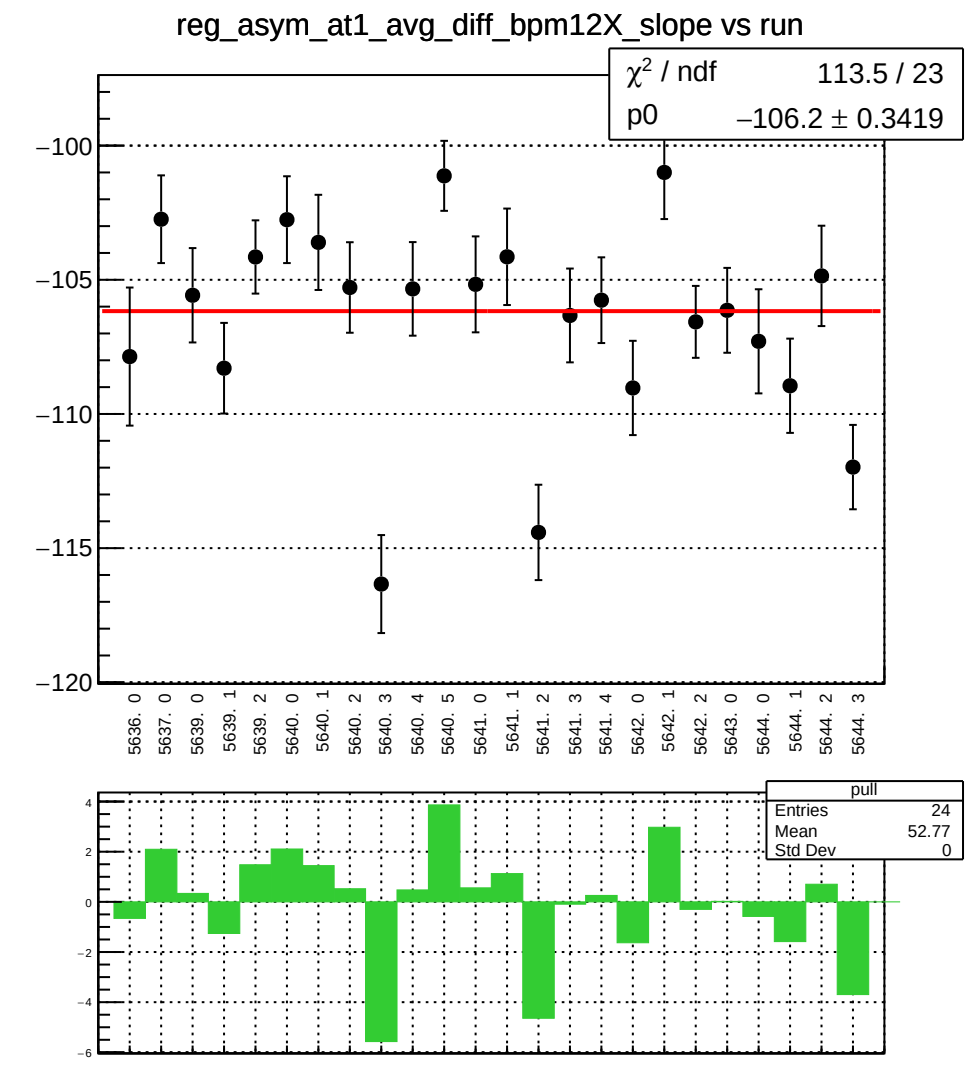

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.362 / 23
p0 22.97 ± 5.389
100
80
60
40
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 30.77
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

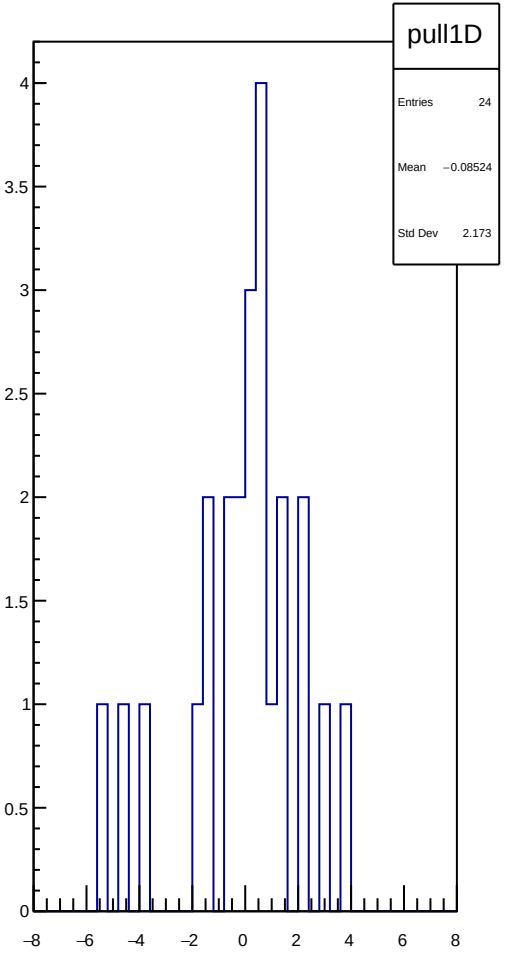

pull1D
Entries 24
Mean 0.08283
Std Dev 0.4654
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

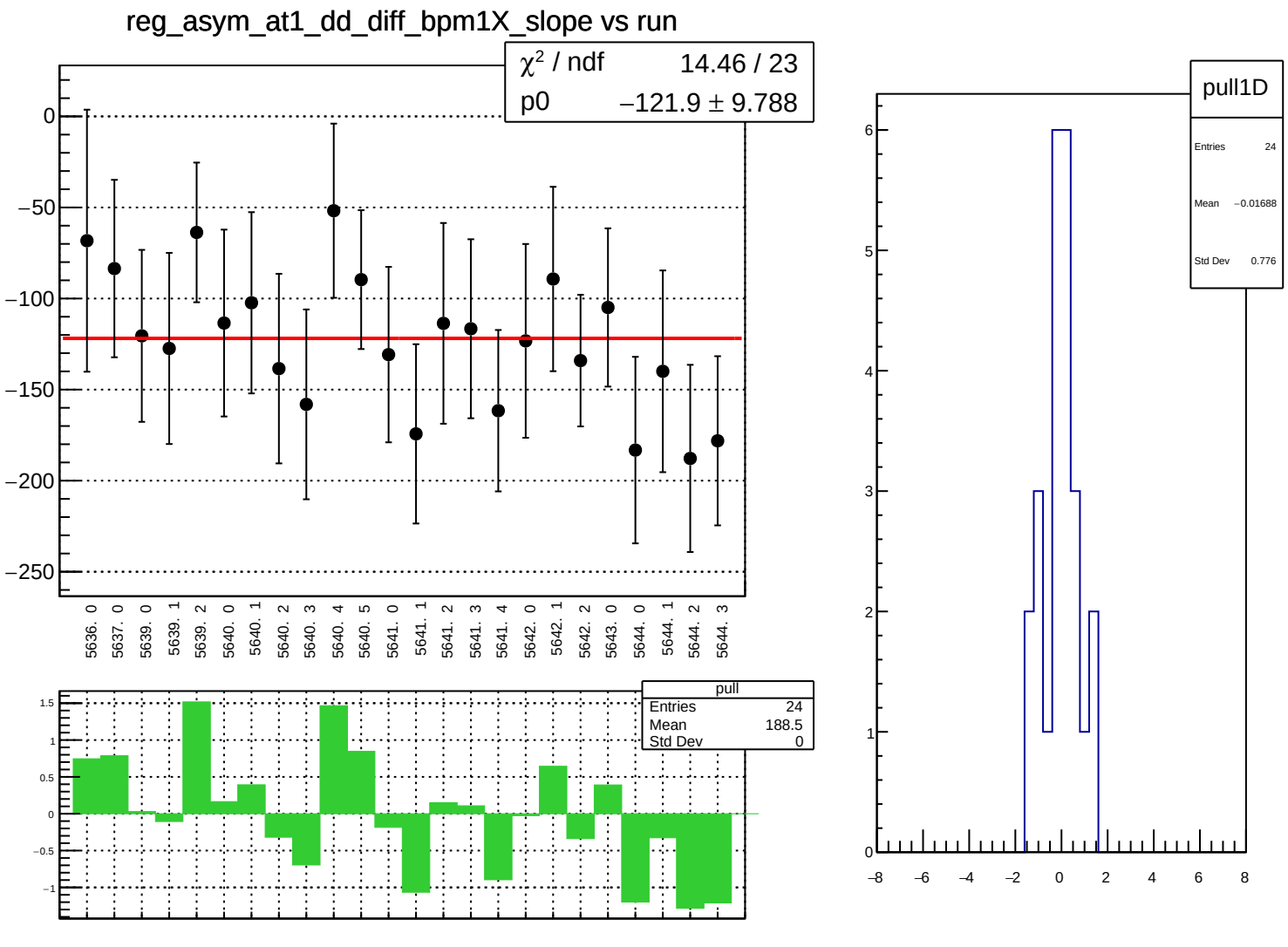

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.18 / 23
p0 155.4 ± 8.415
250
200
150
100
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 262.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

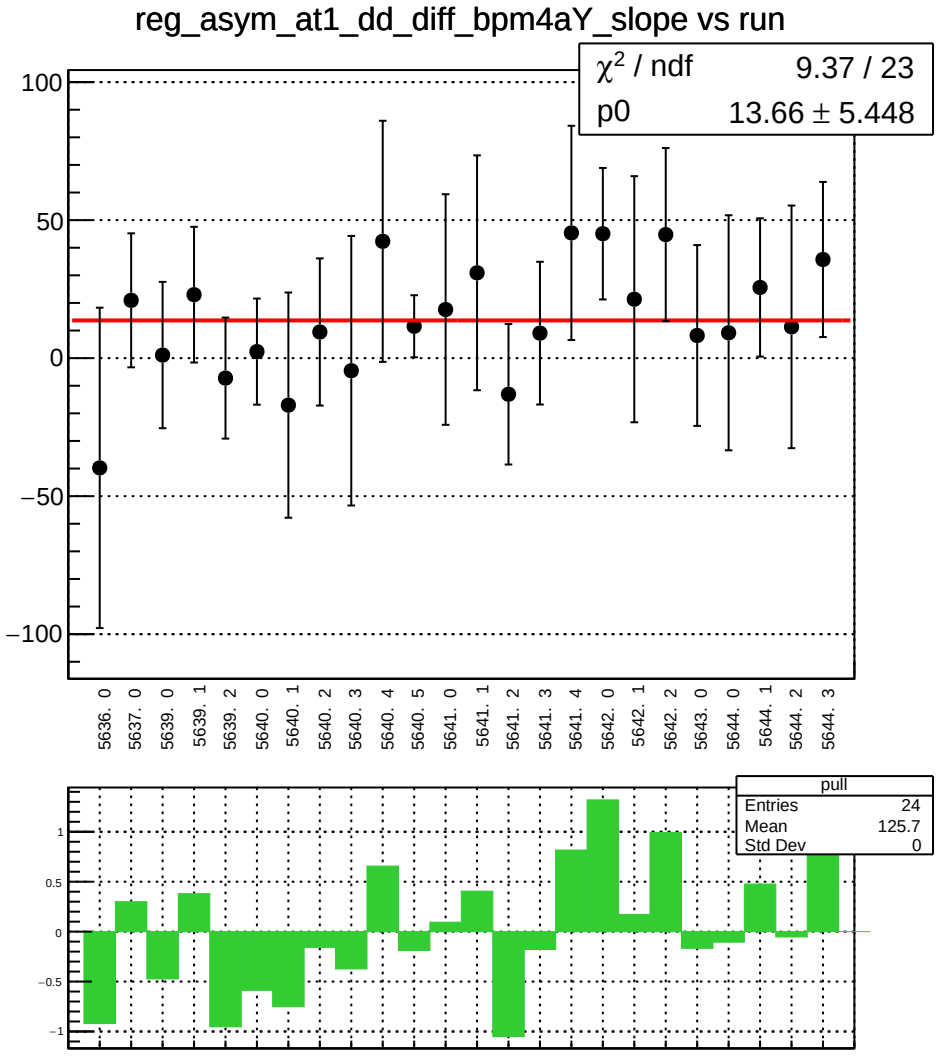

pull1D
Entries 24
Mean 0.004858
Std Dev 0.7409
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

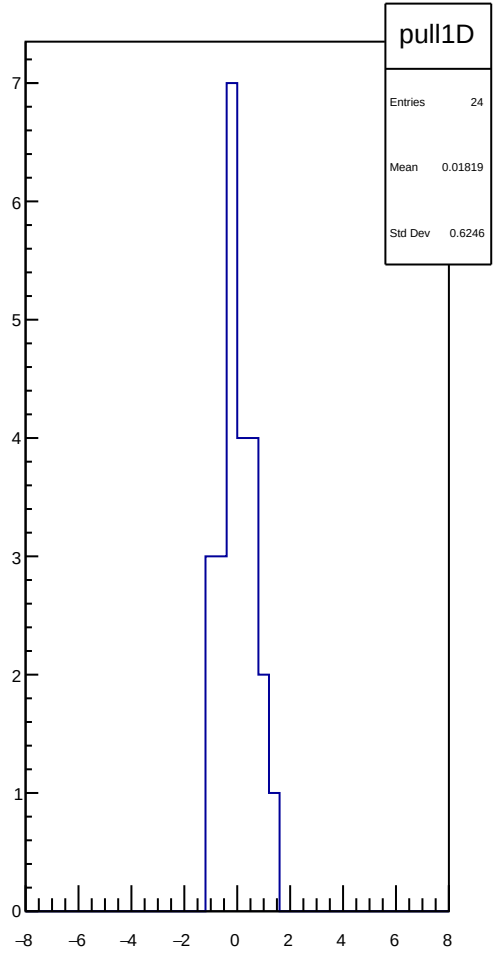

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.38 / 23
p0 −14.6 ± 6.853
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 36.17
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 24
Mean −0.05599
Std Dev 0.4235
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

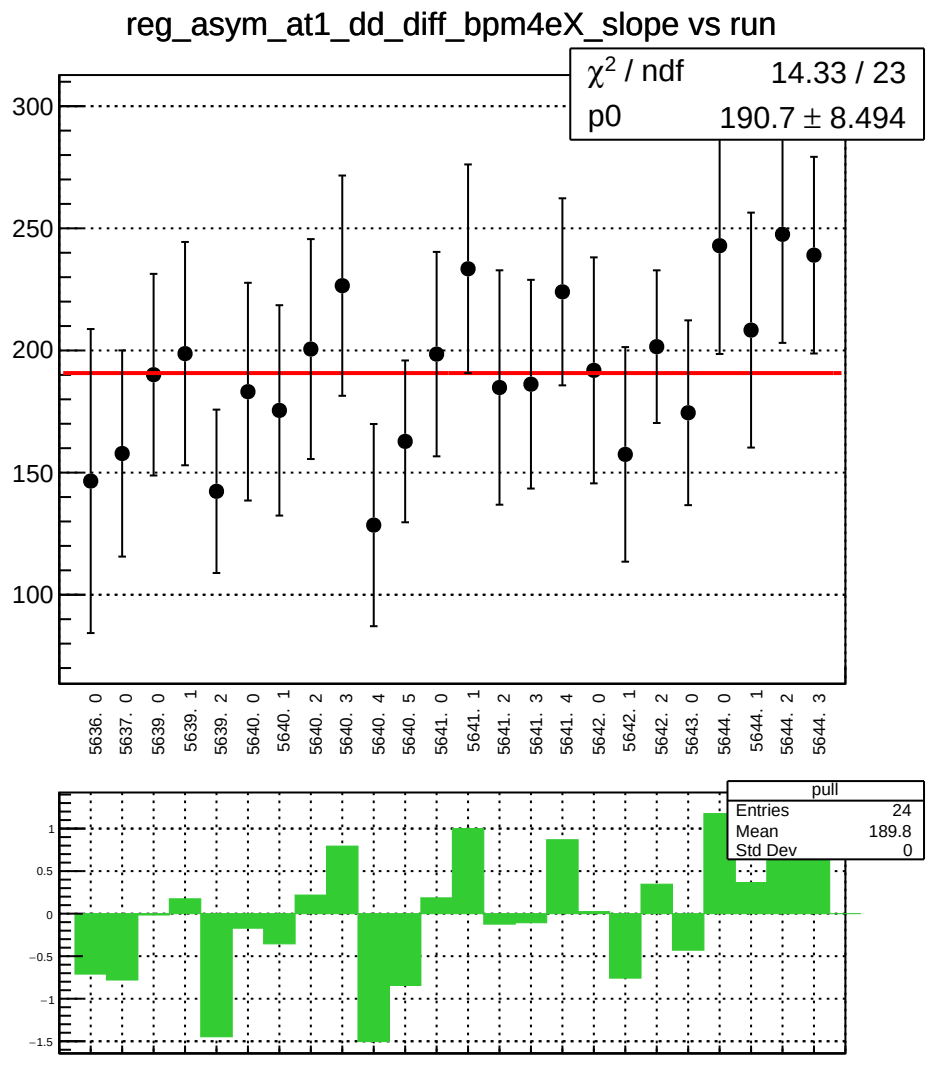

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 113.5 / 23
p0 −106.2 ± 0.3419
−100
−105
−110
−115
−120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 52.77
Std Dev 0
4
2
0
−2
−4
−6

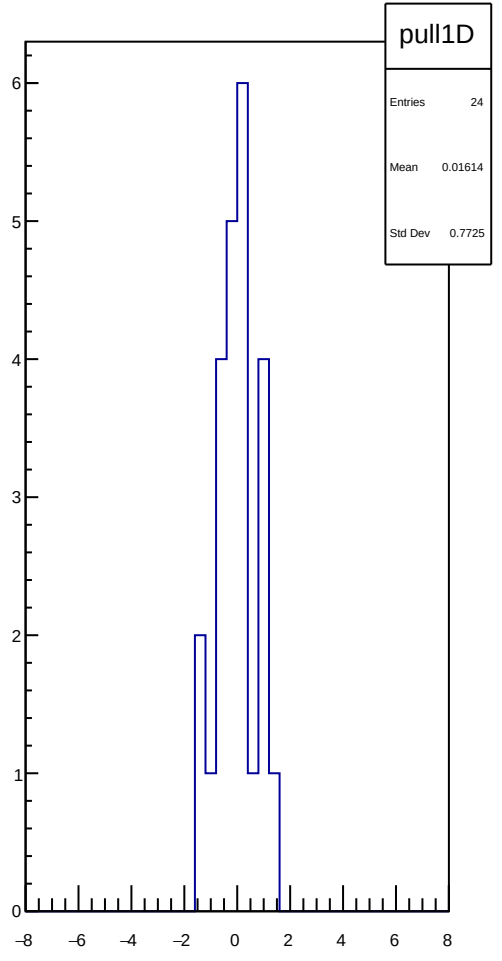

pull1D
Entries 24
Mean −0.08524
Std Dev 2.173
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

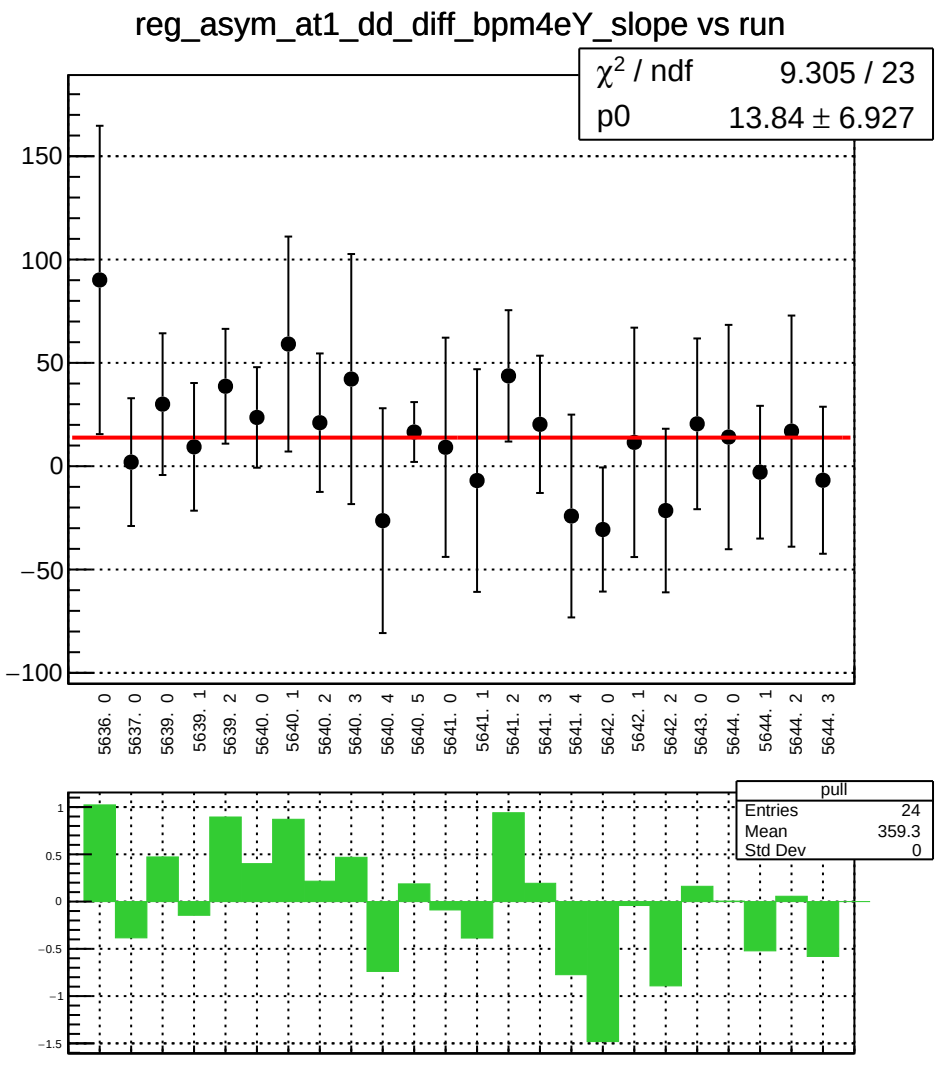

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 14.46 / 23
p0 −121.9 ± 9.788
0
−50
−100
−150
−200
−250
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 188.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.01688
Std Dev 0.776
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

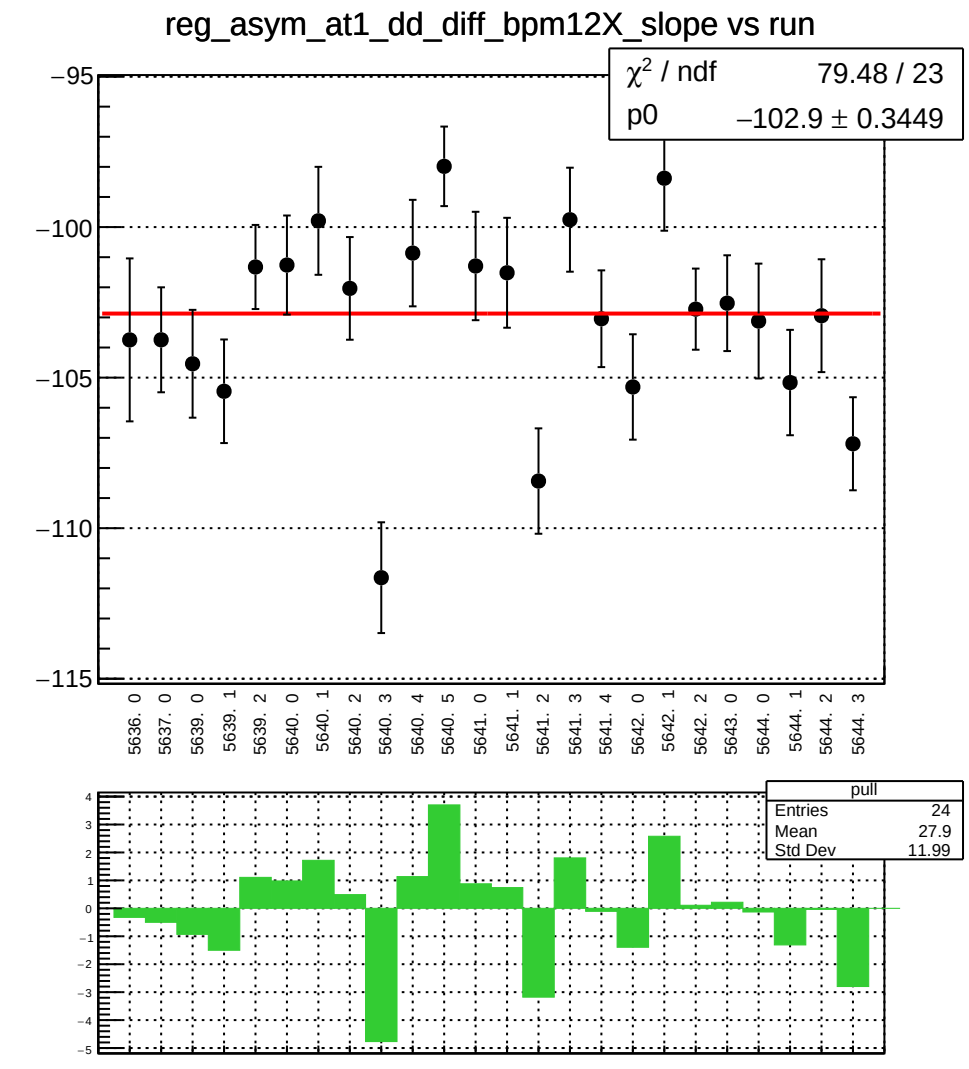

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 9.37 / 23
p0 13.66 ± 5.448
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 125.7
Std Dev 0
1
0.5
0
−0.5
−1

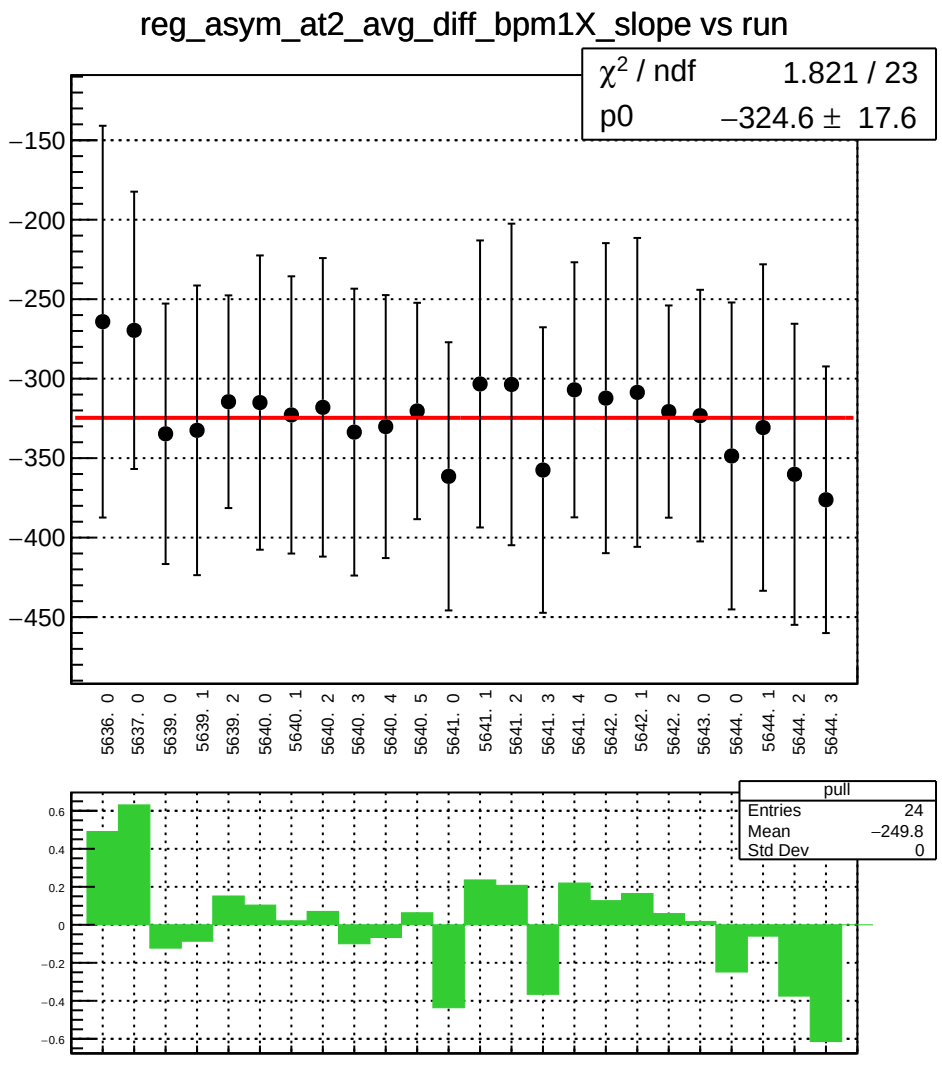

pull1D
Entries 24
Mean 0.01819
Std Dev 0.6246
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

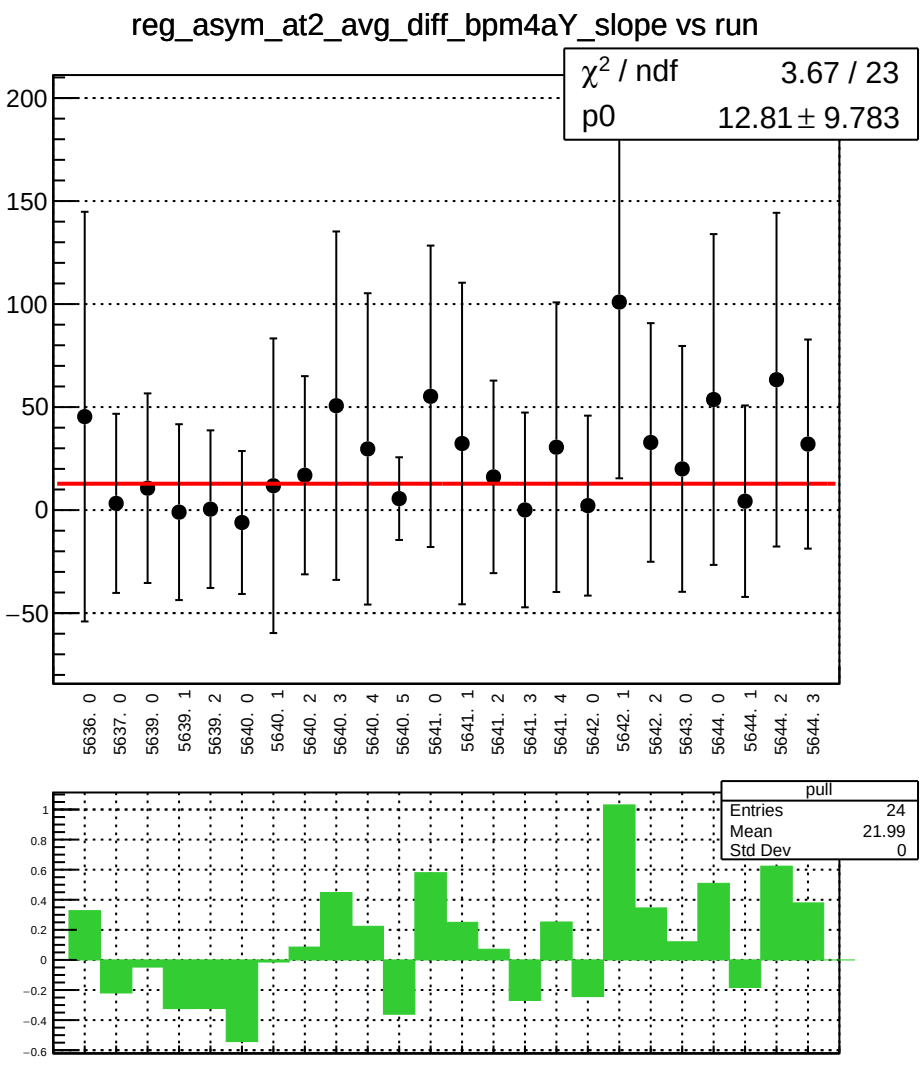

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.33 / 23
p0 190.7 ± 8.494
300
250
200
150
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 189.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

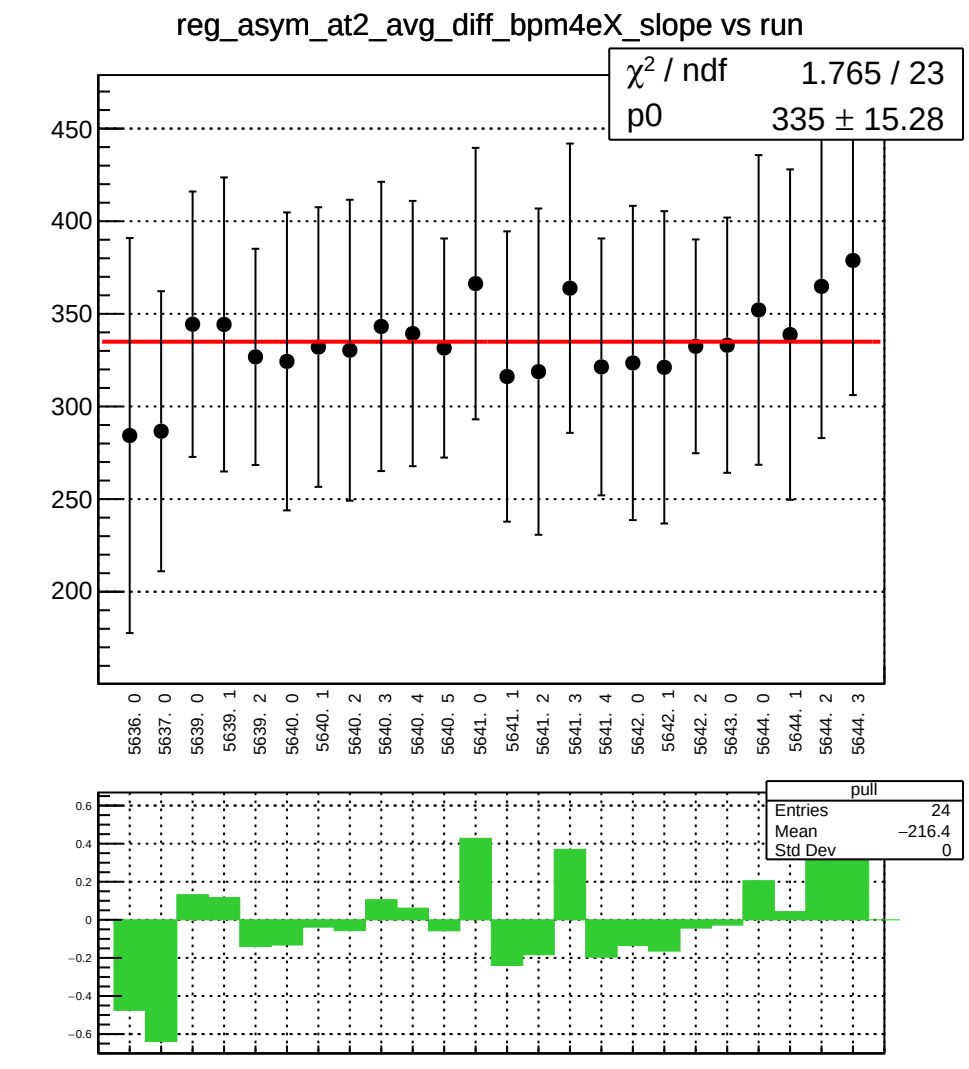

pull1D
Entries 24
Mean 0.01614
Std Dev 0.7725
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

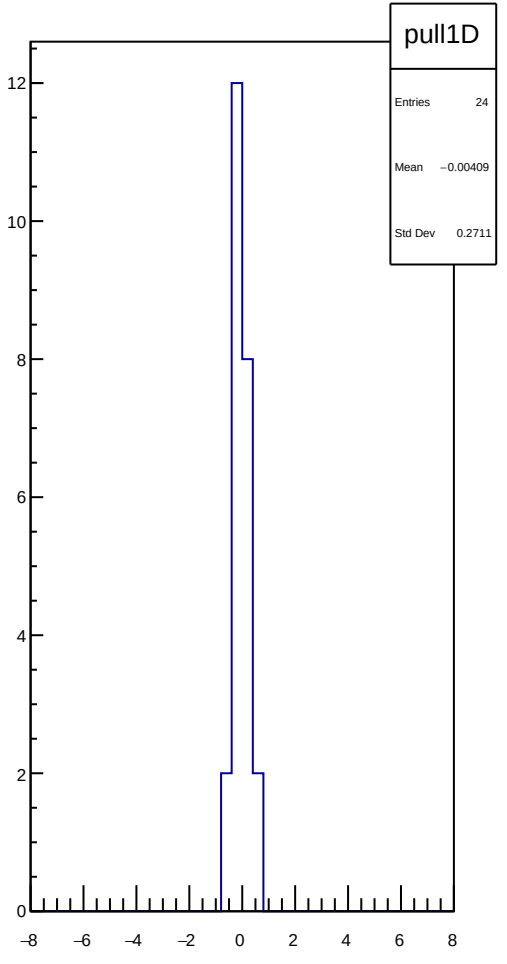

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.305 / 23
p0 13.84 ± 6.927
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 359.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.005946
Std Dev 0.6226
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

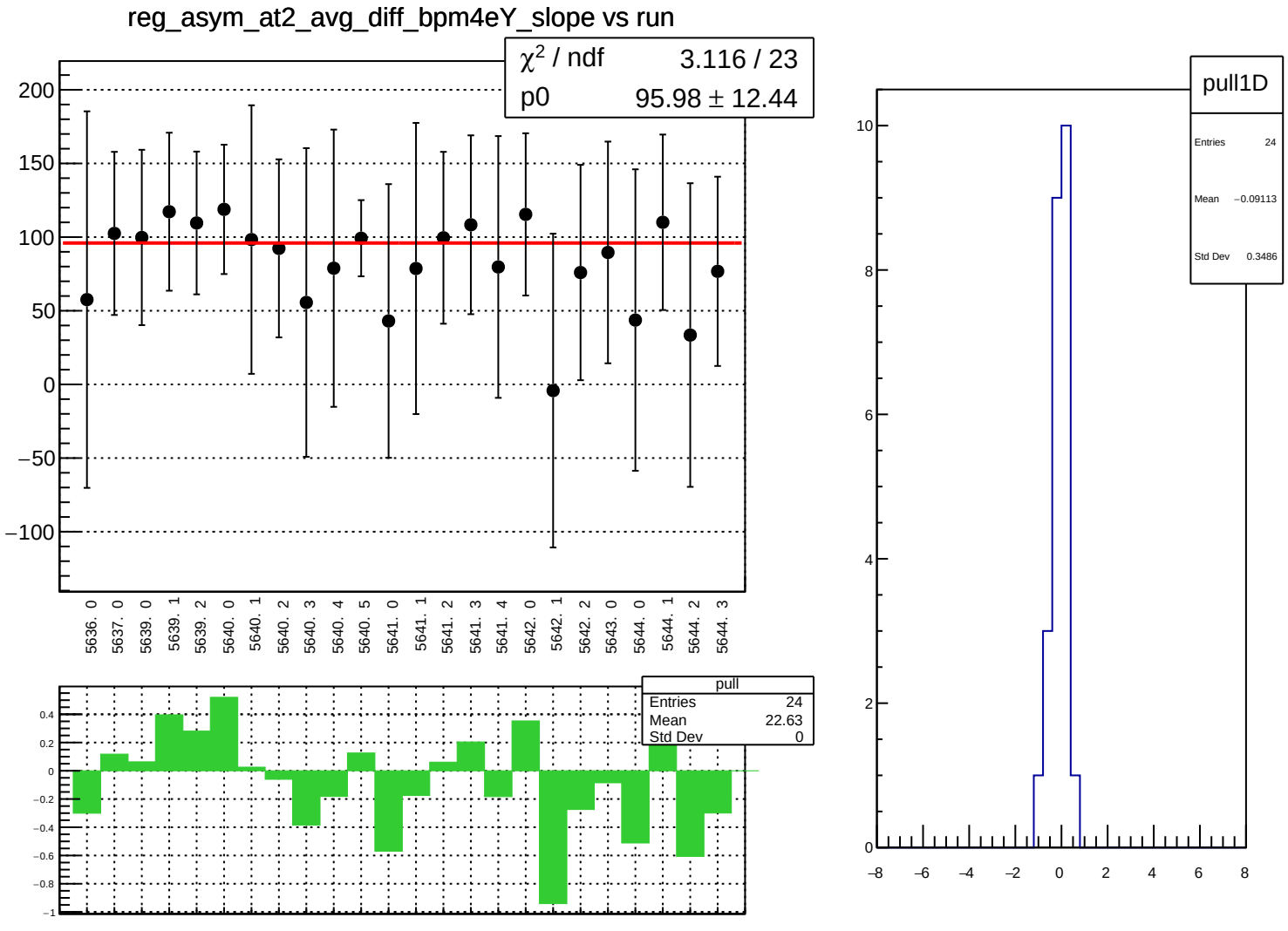

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 79.48 / 23
p0 −102.9 ± 0.3449
−95
−100
−105
−110
−115
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 27.9
Std Dev 11.99
pull1D
Entries 24
Mean −0.063
Std Dev 1.819

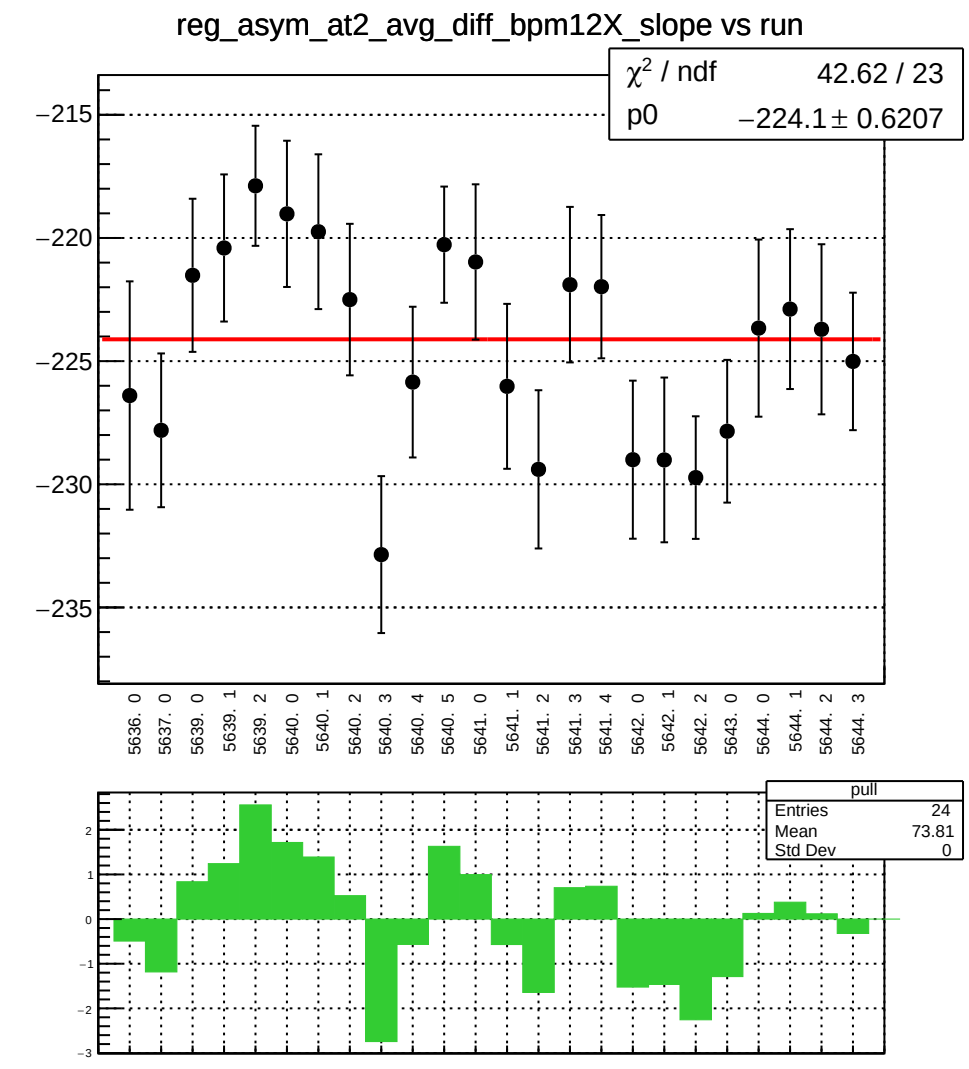

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 1.821 / 23
p0 −324.6 ± 17.6
−150
−200
−250
−300
−350
−400
−450
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −249.8
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 24
Mean 0.003722
Std Dev 0.2754
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

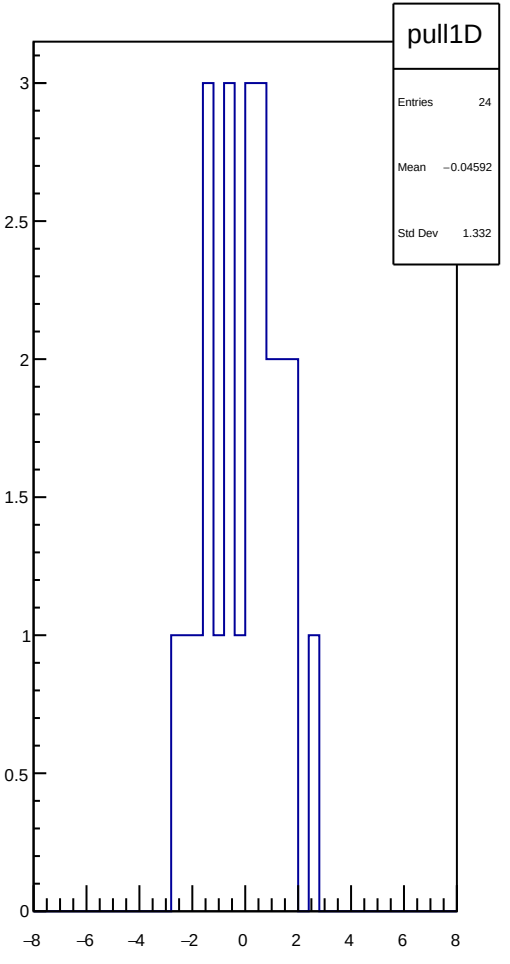

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.67 / 23
p0 12.81 ± 9.783
200
150
100
50
0
−50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 21.99
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 24
Mean 0.1133
Std Dev 0.3742
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

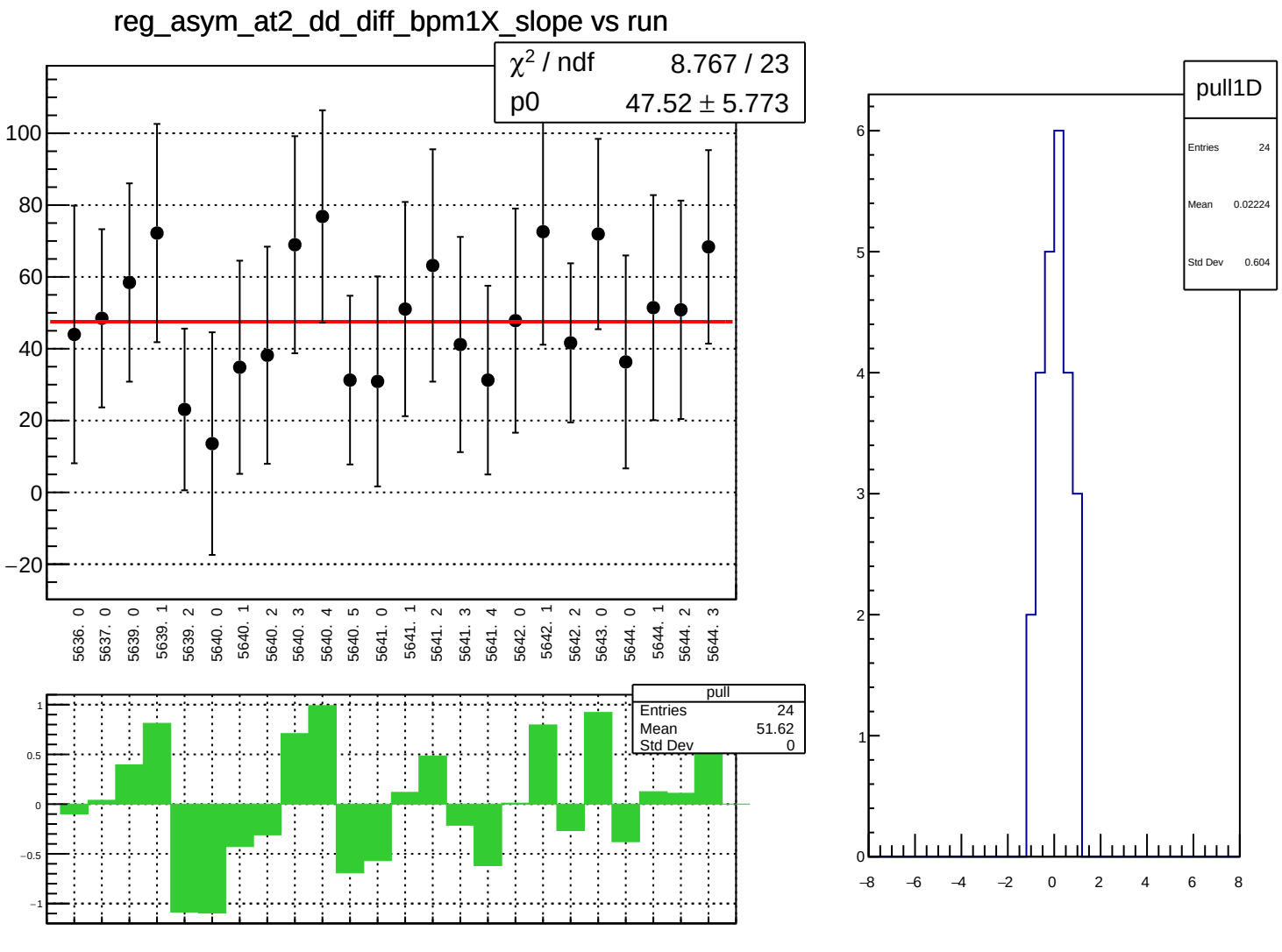

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.765 / 23
p0 335 ± 15.28
450
400
350
300
250
200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −216.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

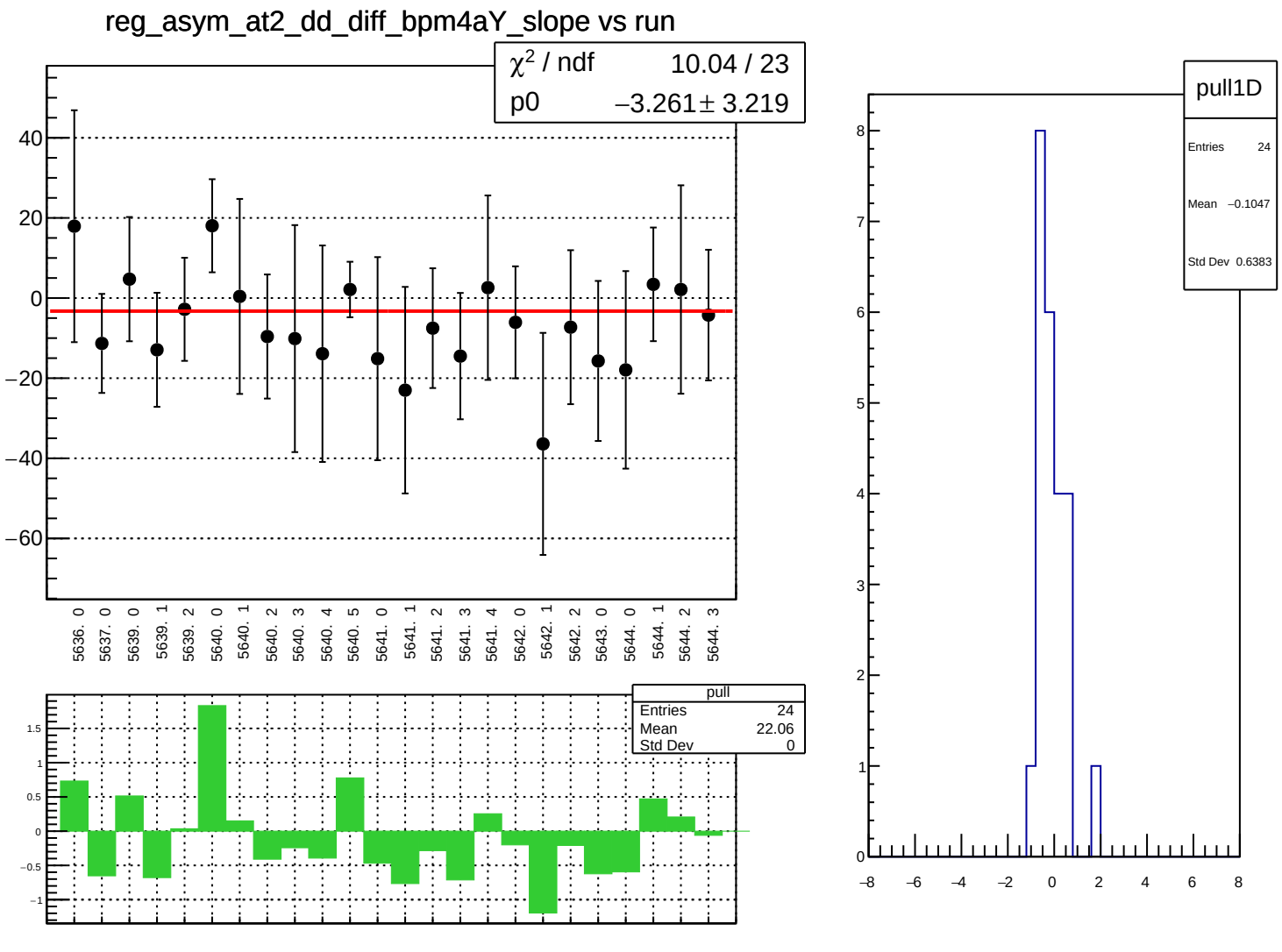

pull1D
Entries 24
Mean −0.00409
Std Dev 0.2711
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

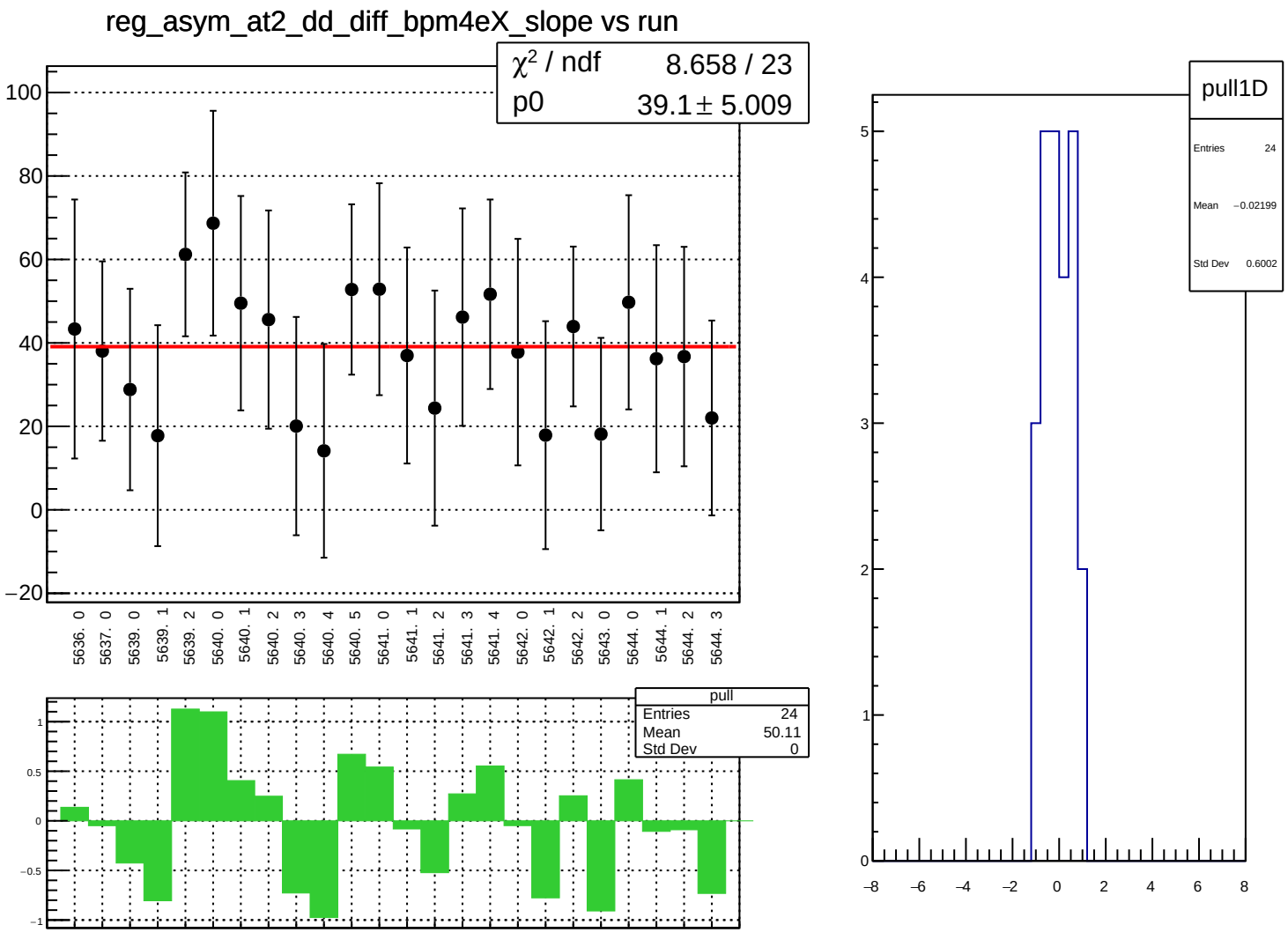

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.116 / 23
p0 95.98 ± 12.44
200
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 22.63
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 24
Mean −0.09113
Std Dev 0.3486
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

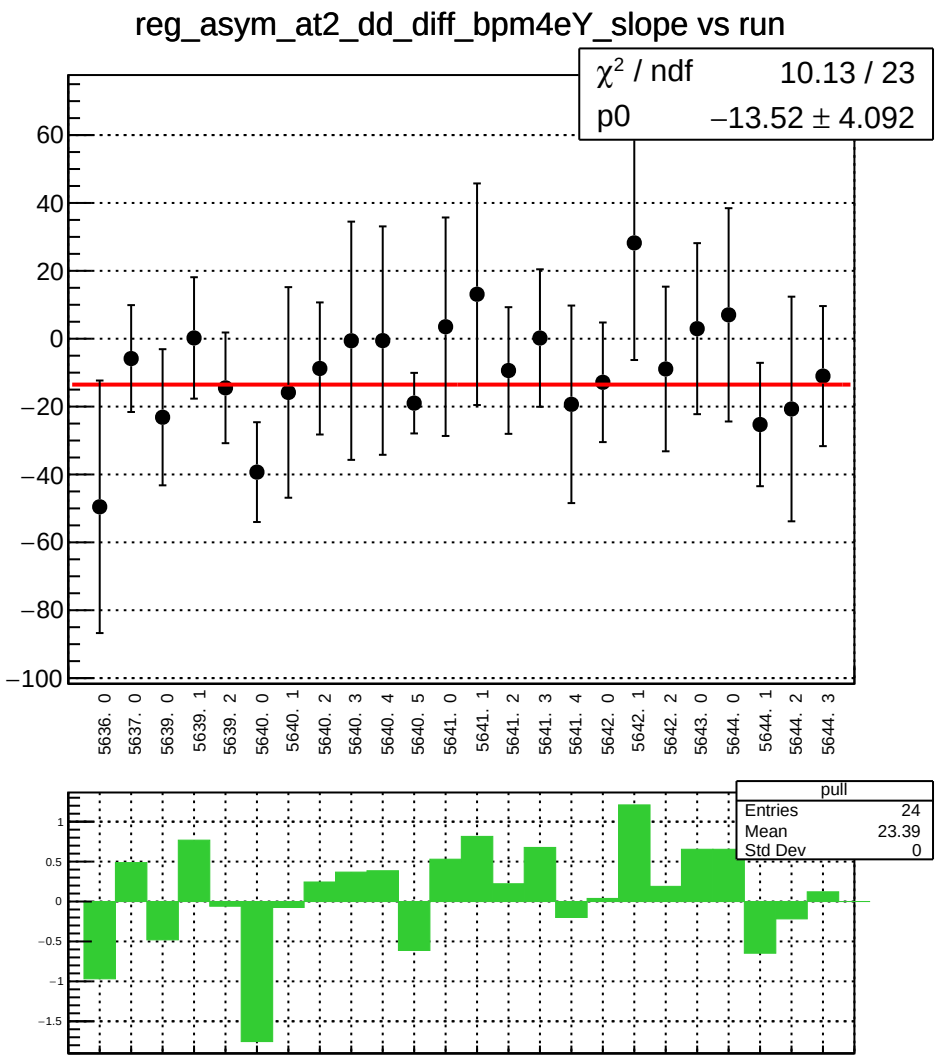

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 42.62 / 23
p0 −224.1 ± 0.6207
−215
−220
−225
−230
−235
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 73.81
Std Dev 0
2
1
0
−1
−2
−3

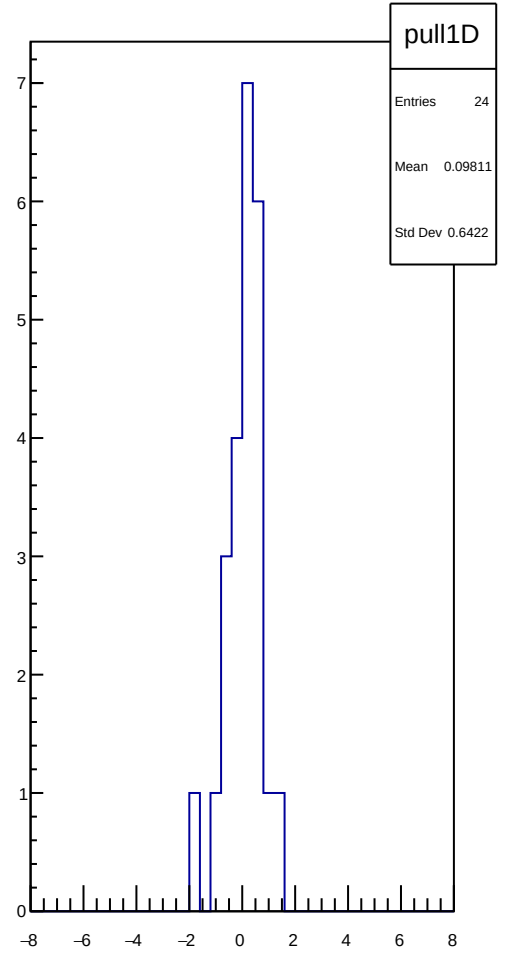

pull1D
Entries 24
Mean −0.04592
Std Dev 1.332
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

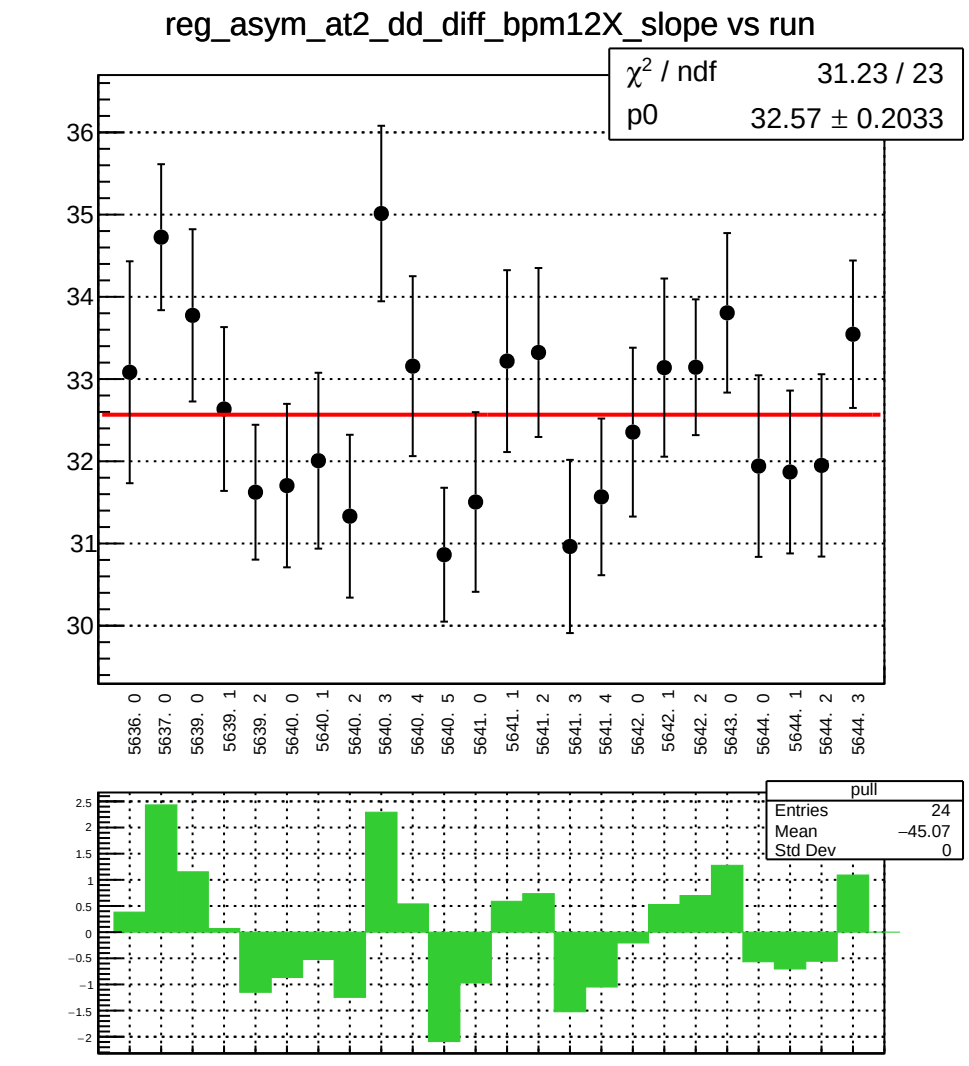

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 8.767 / 23
p0 47.52 ± 5.773
100
80
60
40
20
0
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 51.62
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.02224
Std Dev 0.604
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

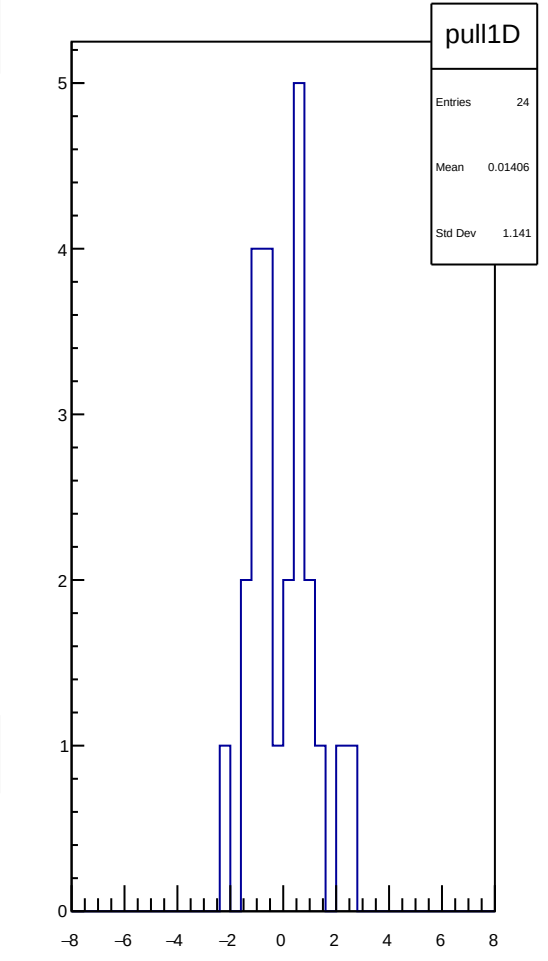

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.04 / 23
p0 −3.261 ± 3.219
40
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 22.06
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.1047
Std Dev 0.6383
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

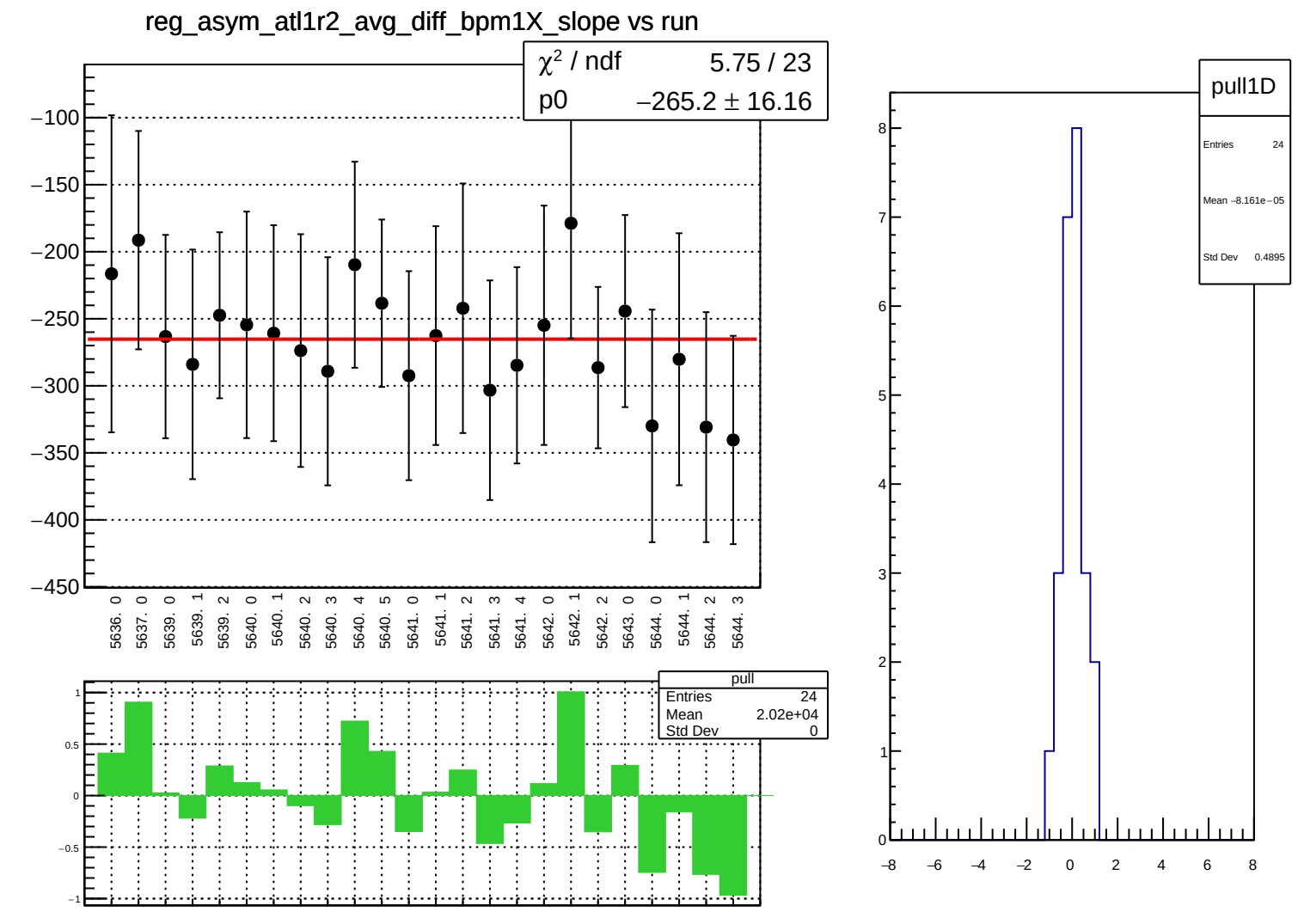

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.658 / 23
p0 39.1 ± 5.009
100
80
60
40
20
0
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 50.11
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.02199
Std Dev 0.6002
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

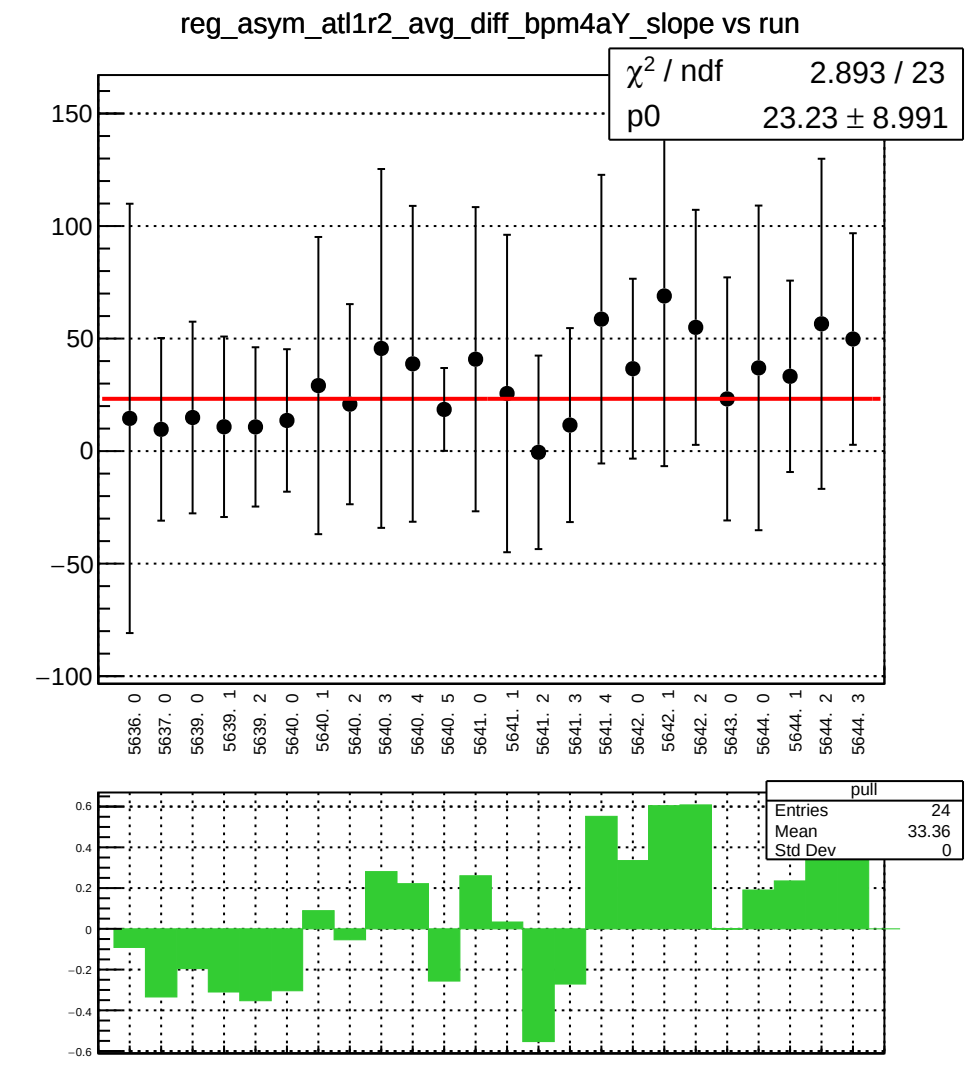

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.13 / 23
p0 −13.52 ± 4.092
60
40
20
0
−20
−40
−60
−80
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 23.39
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

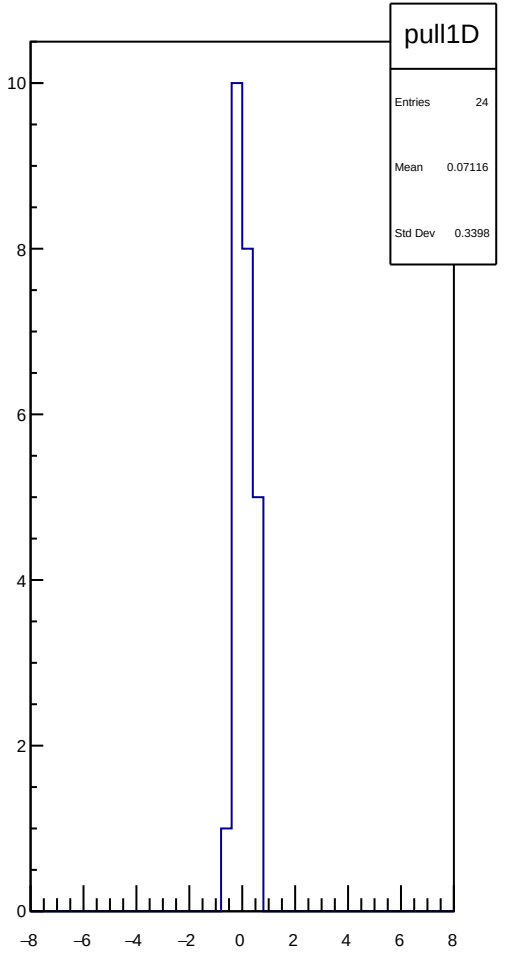

pull1D
Entries 24
Mean 0.09811
Std Dev 0.6422
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

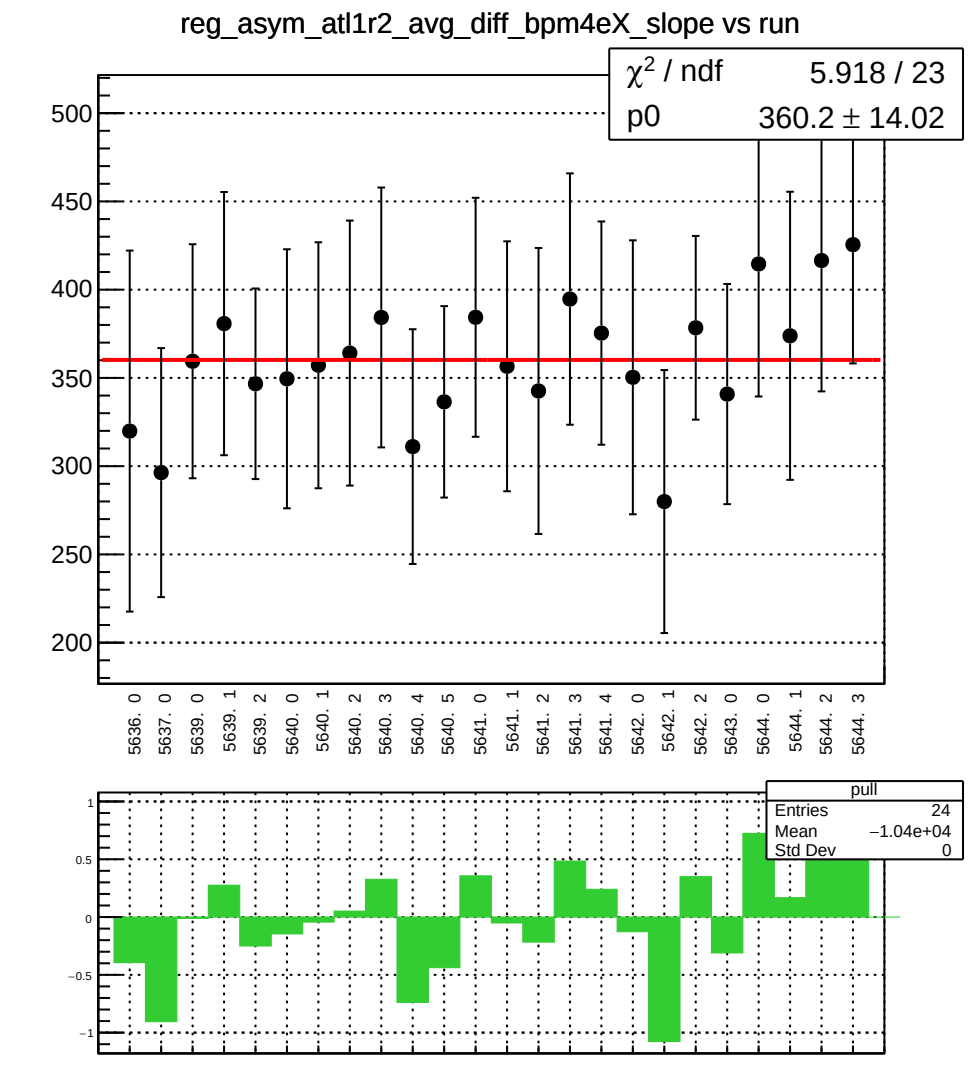

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 31.23 / 23
p0 32.57 ± 0.2033
36
35
34
33
32
31
30
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −45.07
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

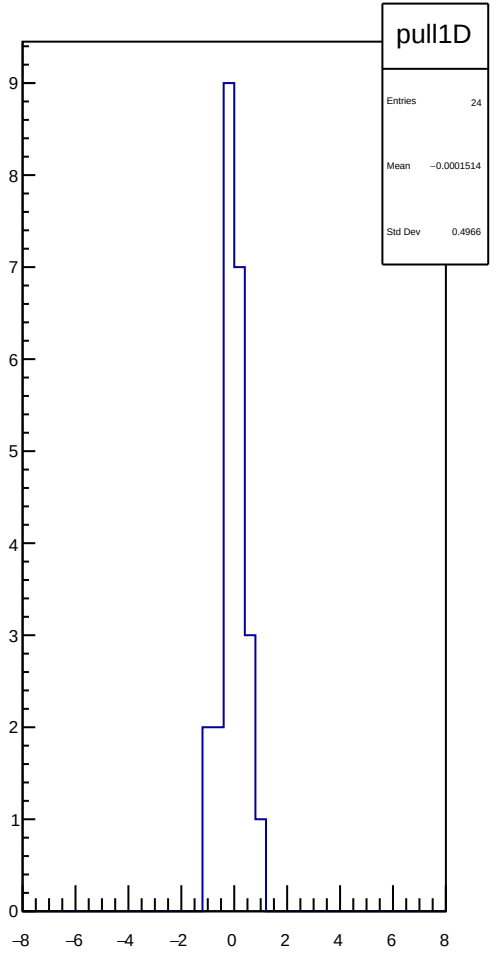

pull1D
Entries 24
Mean 0.01406
Std Dev 1.141
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

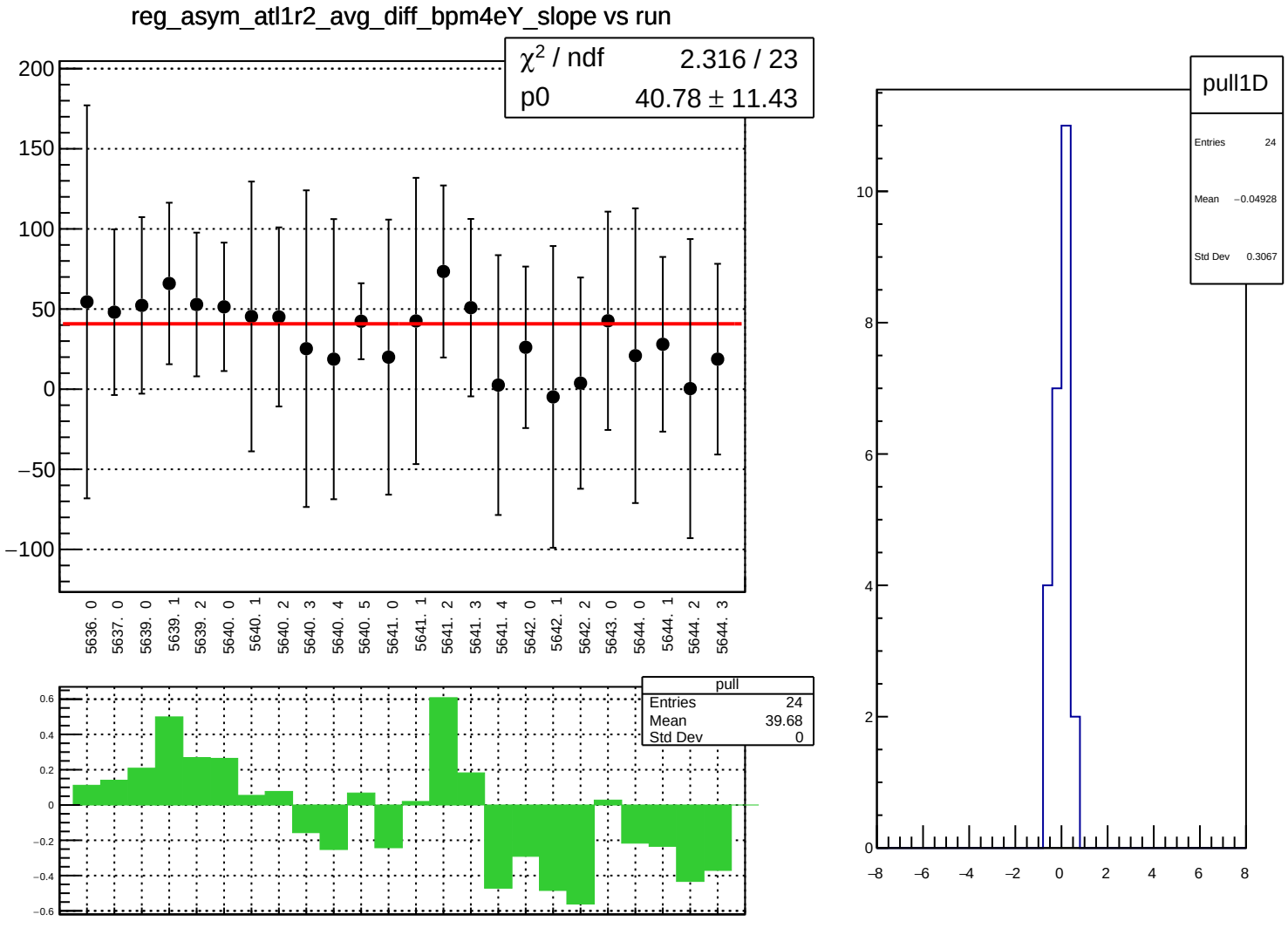

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 5.75 / 23
p0 −265.2 ± 16.16
−100
−150
−200
−250
−300
−350
−400
−450
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 2.02e+04
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −8.161e−05
Std Dev 0.4895
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

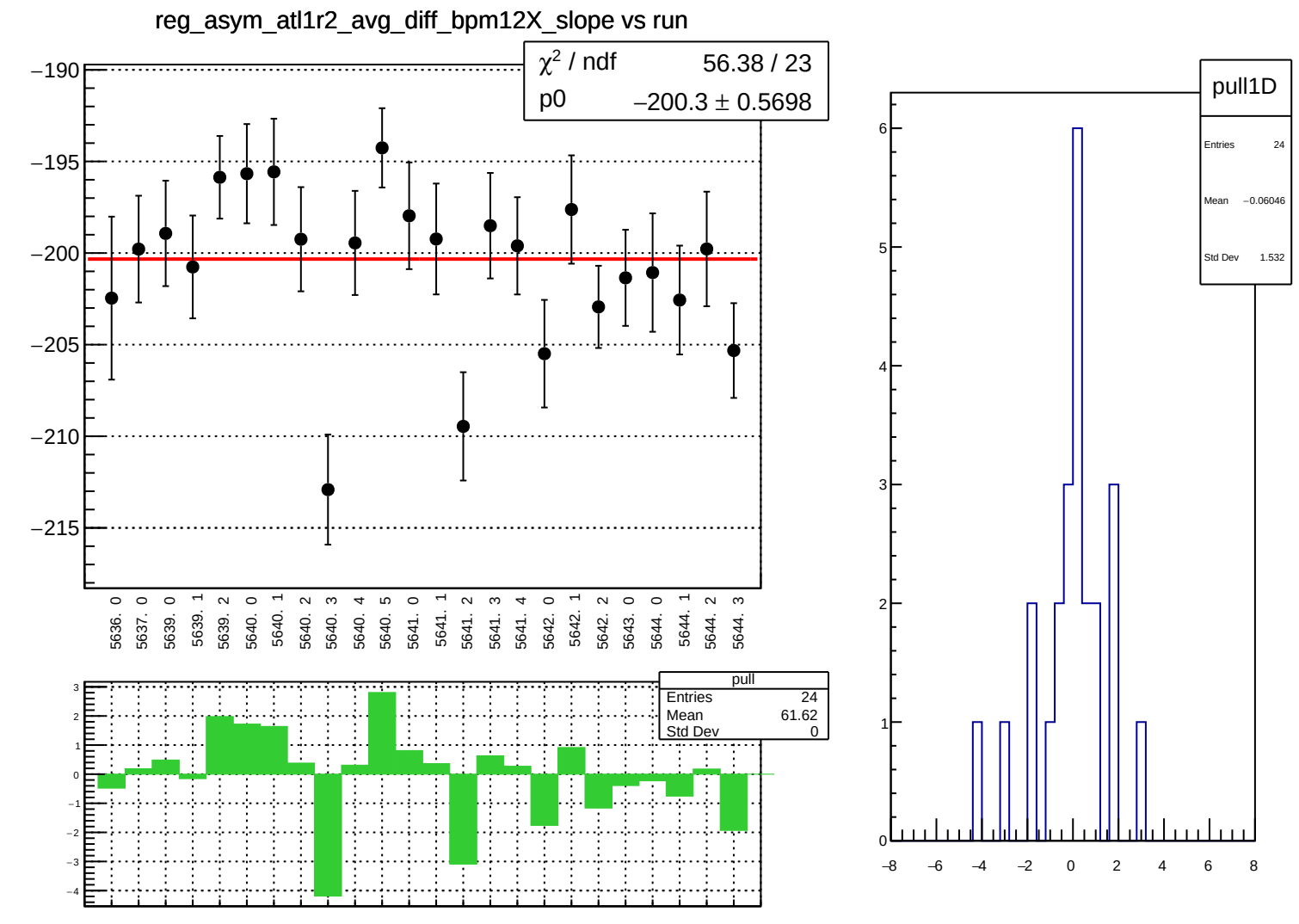

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.893 / 23
p0 23.23 ± 8.991
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 33.36
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

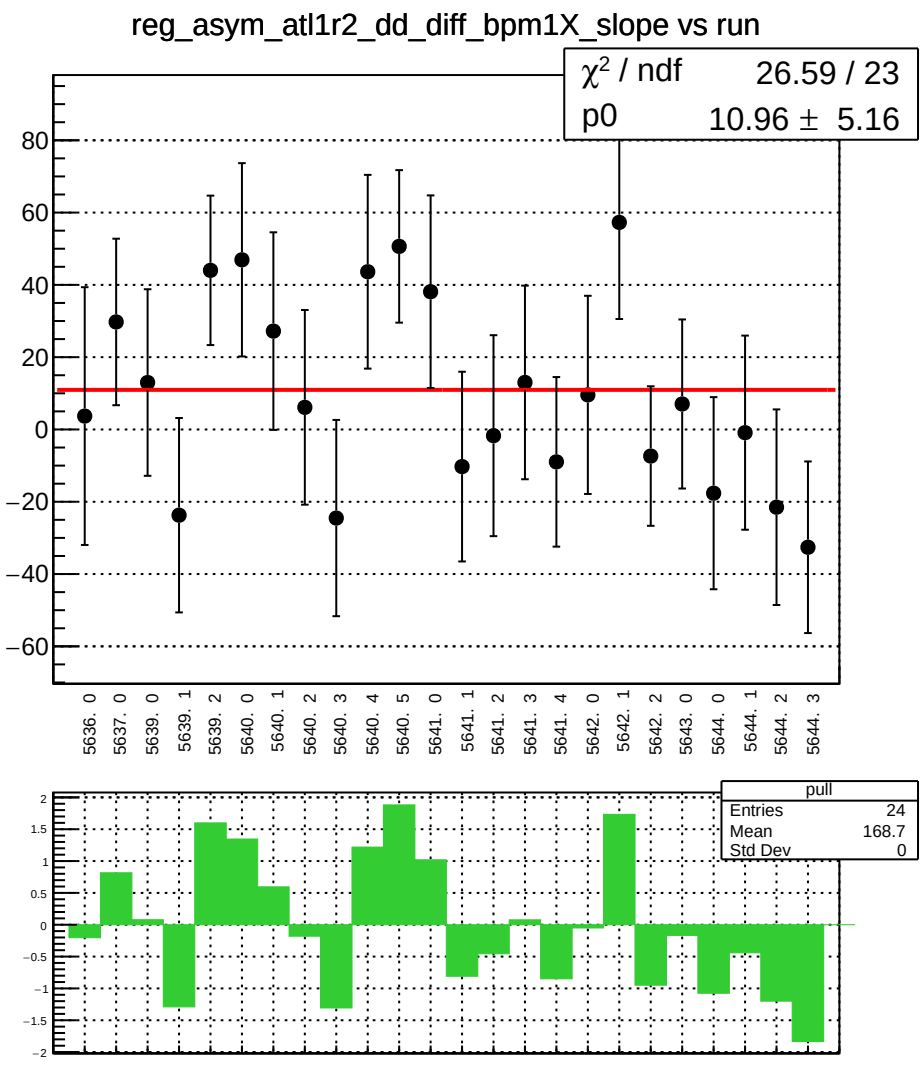

pull1D
Entries 24
Mean 0.07116
Std Dev 0.3398
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

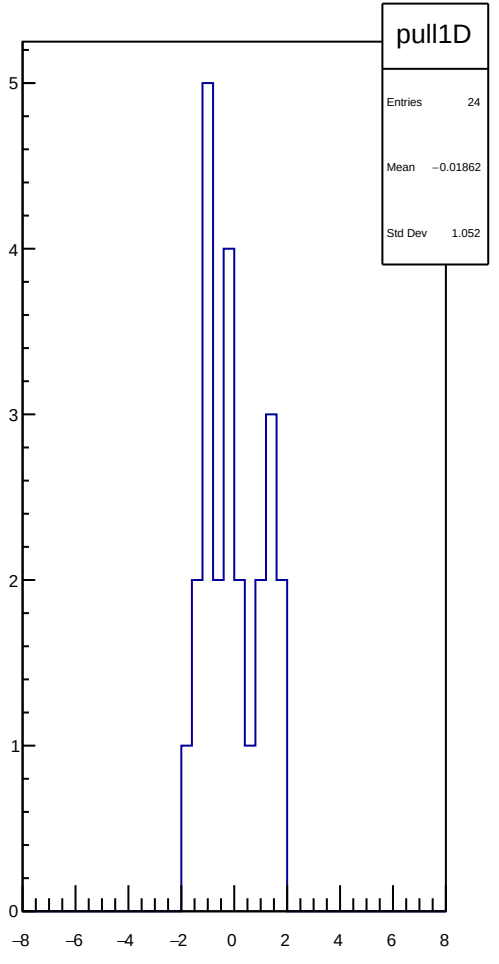

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.918 / 23
p0 360.2 ± 14.02
500
450
400
350
300
250
200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −1.04e+04
Std Dev 0
1
0.5
0
−0.5
−1

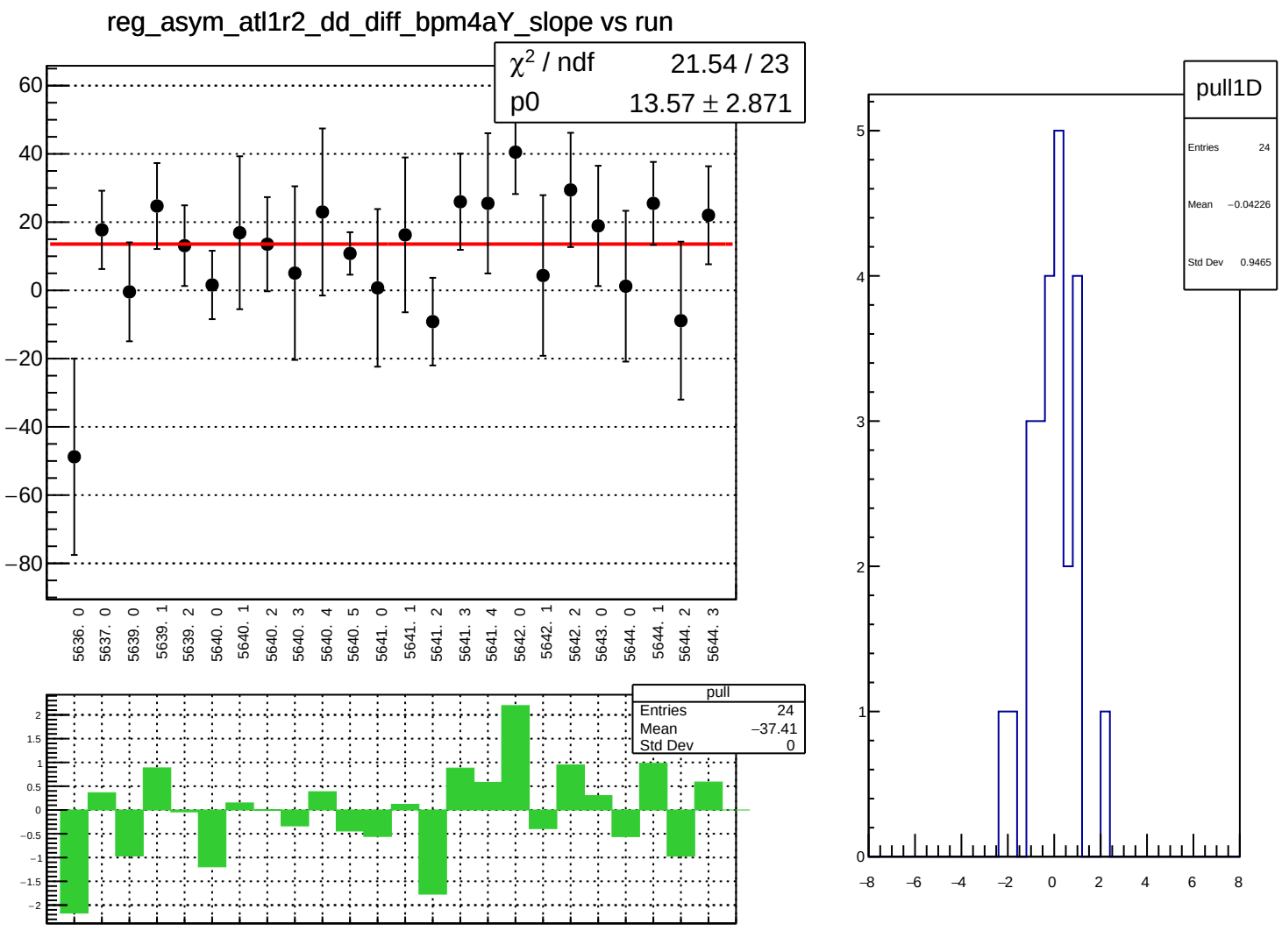

pull1D
Entries 24
Mean −0.0001514
Std Dev 0.4966
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

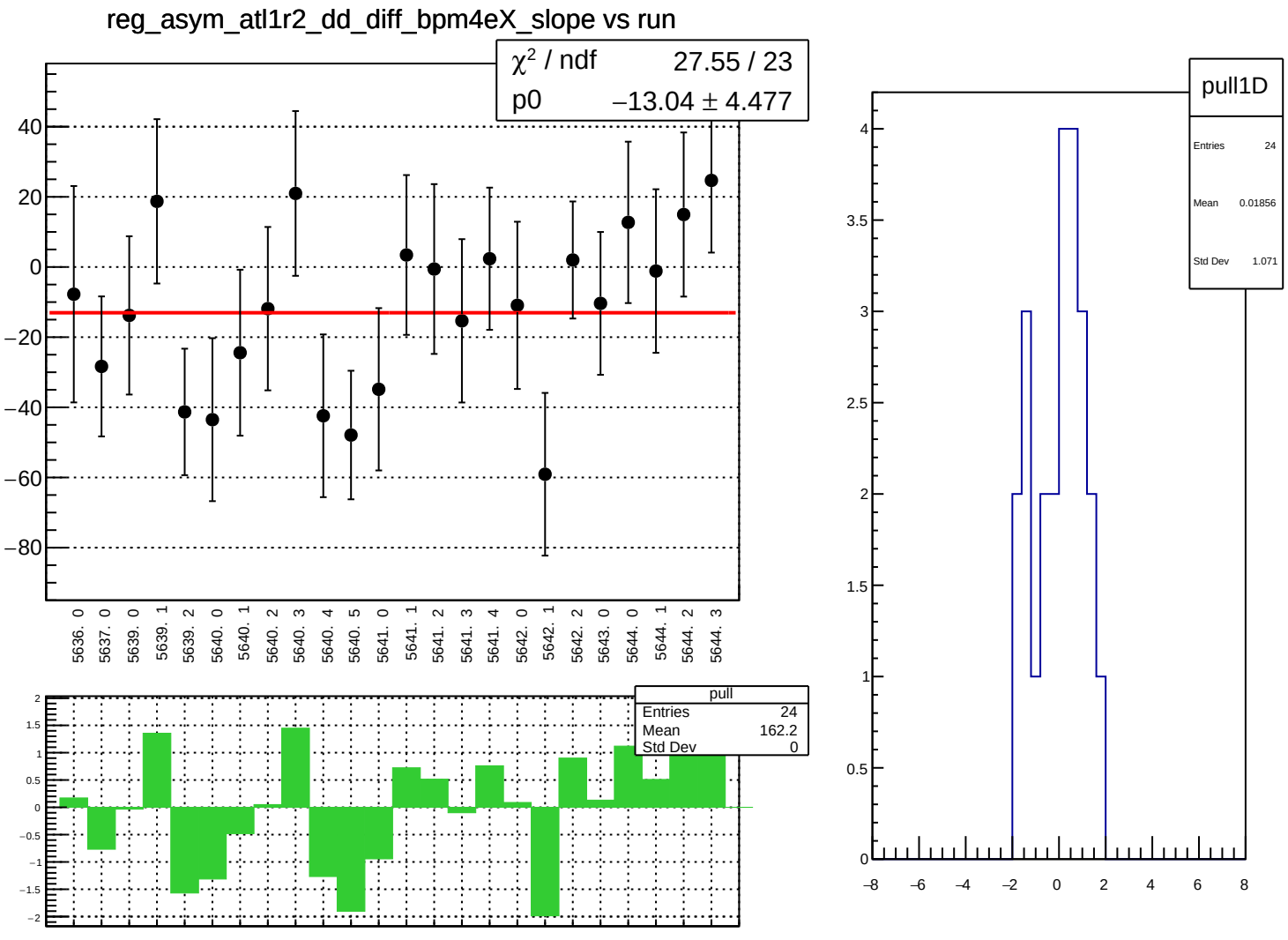

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.316 / 23
p0 40.78 ± 11.43
200
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 39.68
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 24
Mean −0.04928
Std Dev 0.3067
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

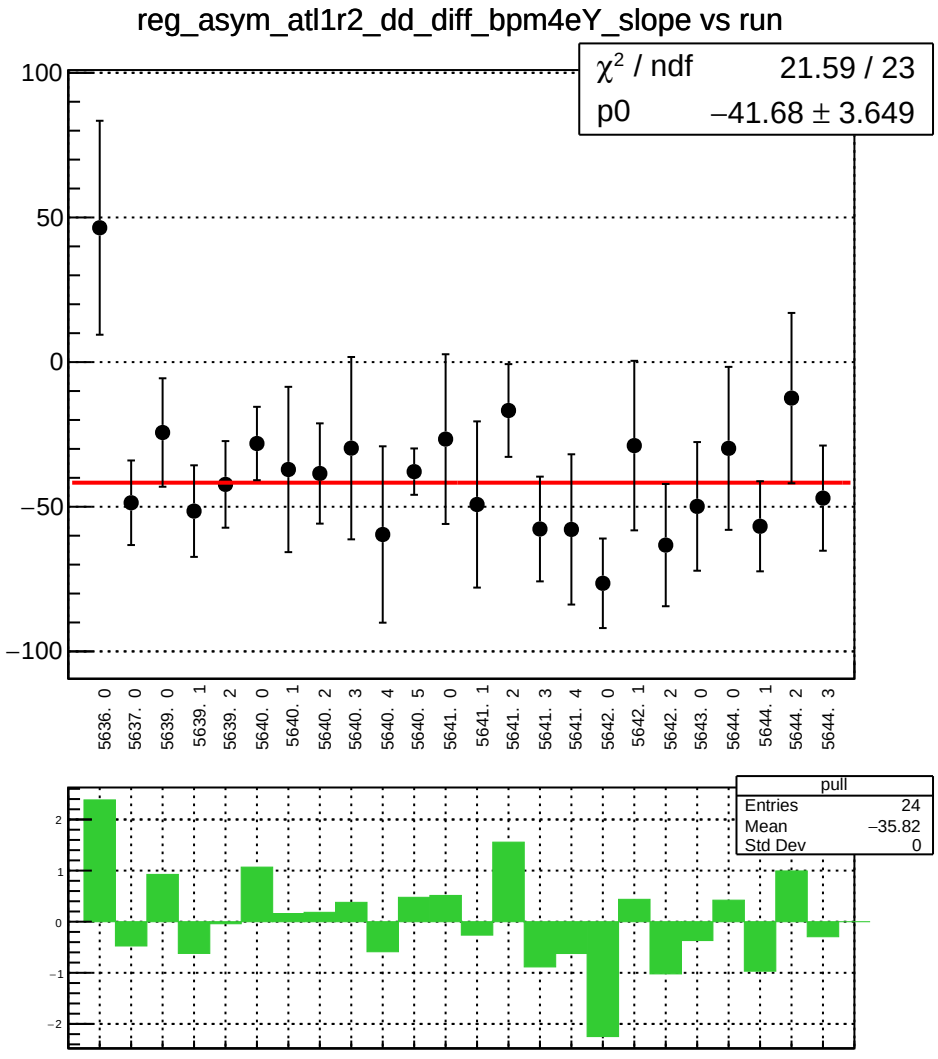

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 56.38 / 23
p0 −200.3 ± 0.5698
−190
−195
−200
−205
−210
−215
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 61.62
Std Dev 0
pull1D
Entries 24
Mean −0.06046
Std Dev 1.532

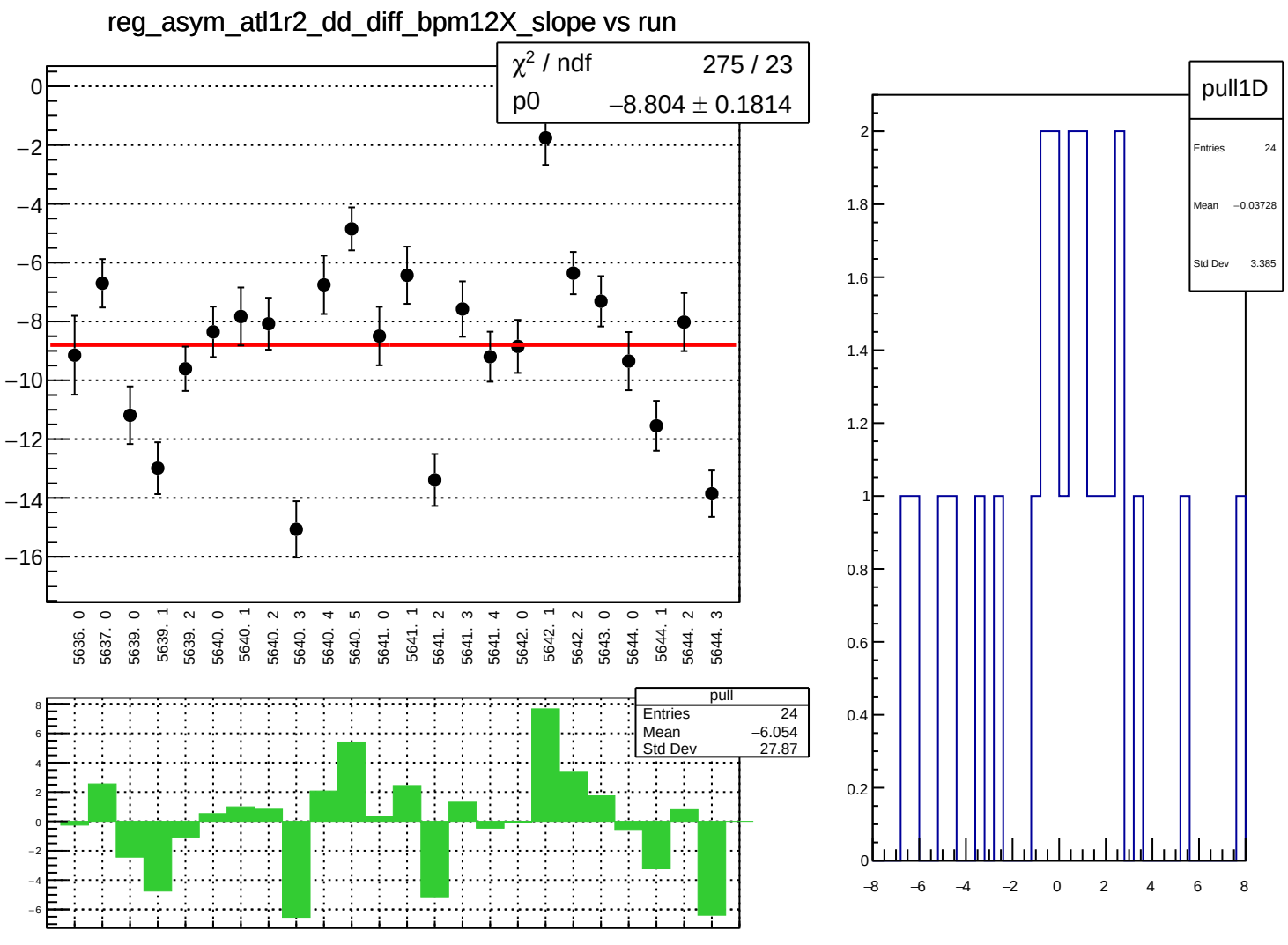

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 26.59 / 23
p0 10.96 ± 5.16
80
60
40
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 168.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

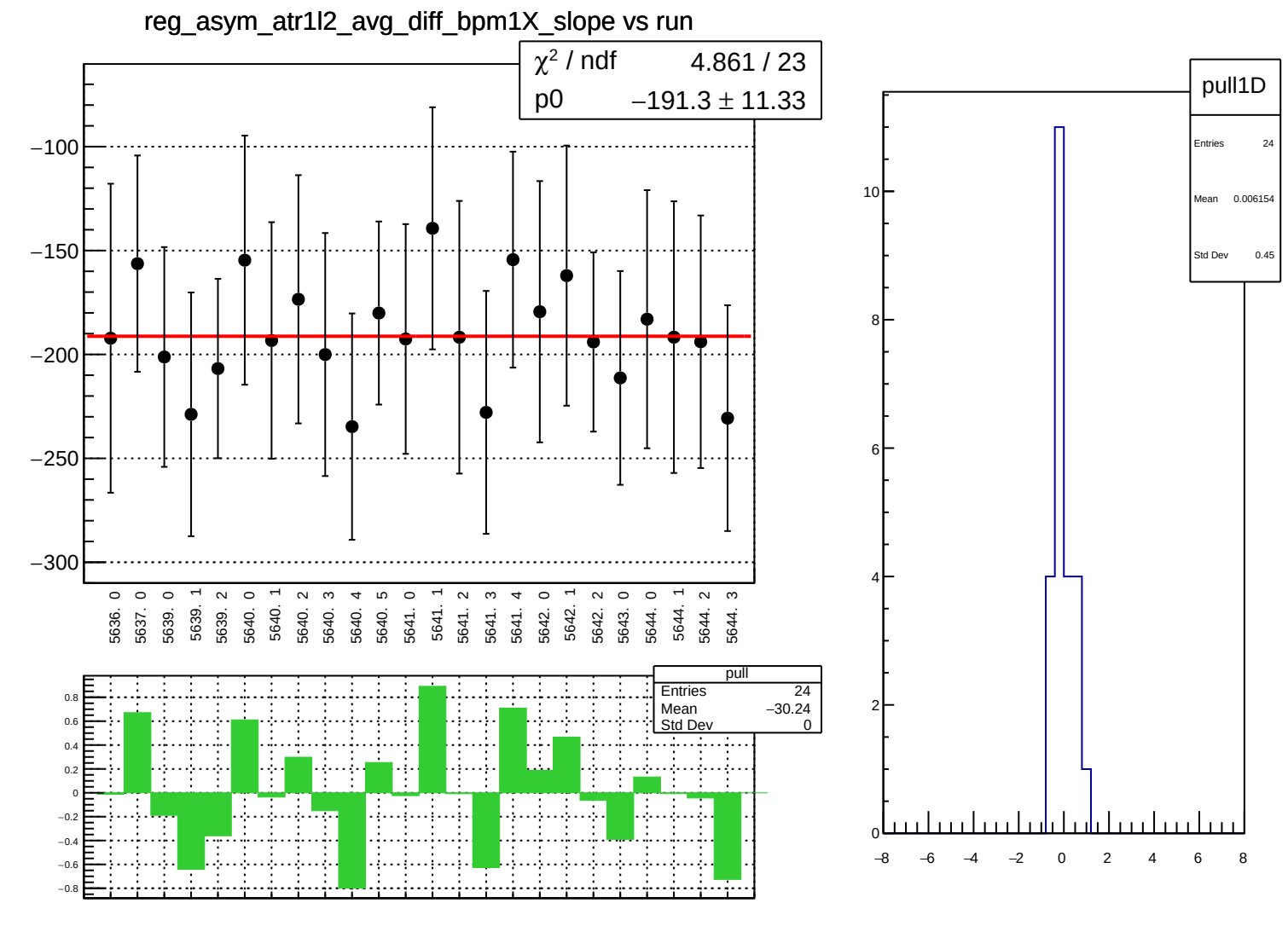

pull1D
Entries 24
Mean −0.01862
Std Dev 1.052
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

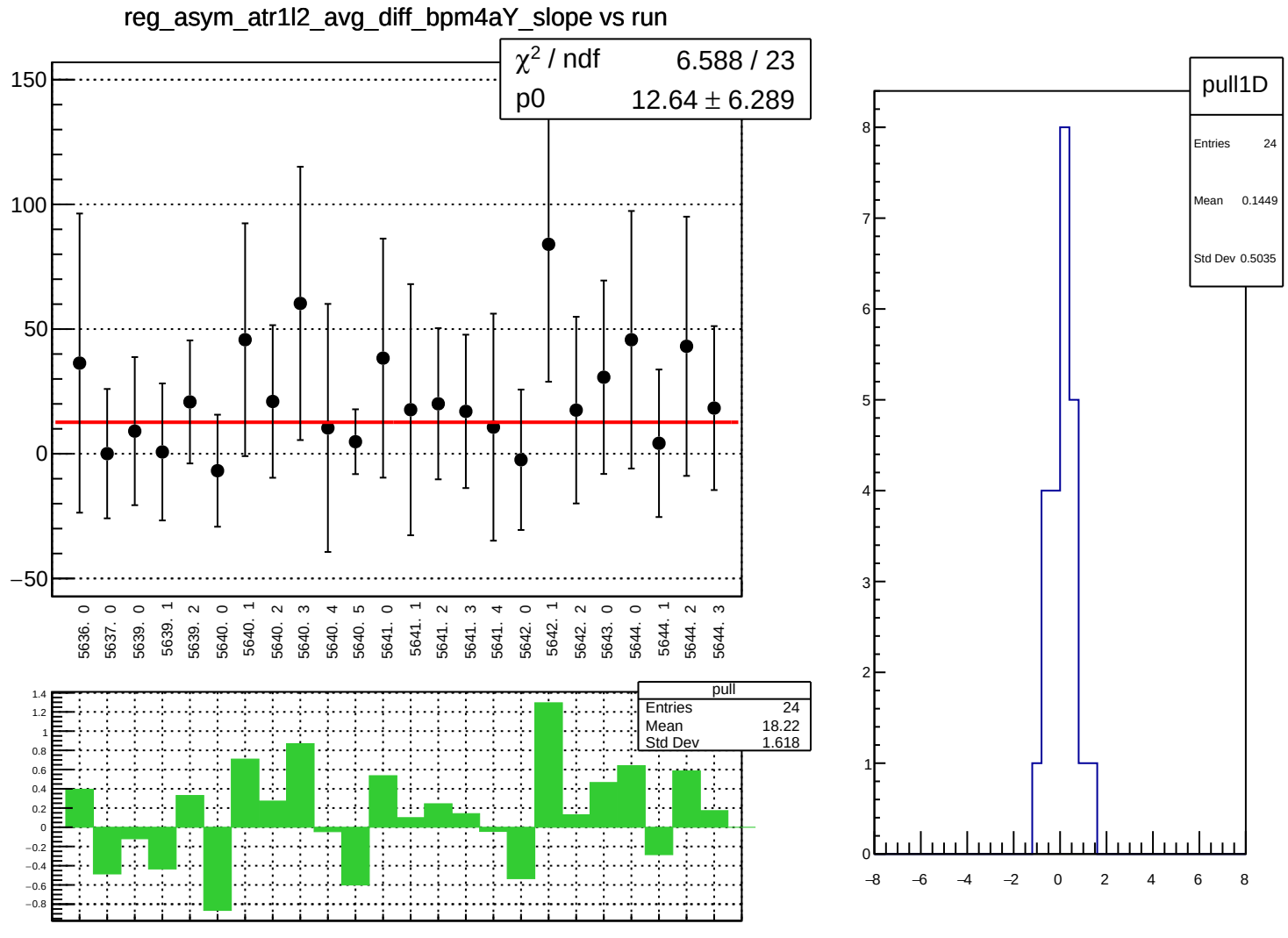

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.54 / 23
p0 13.57 ± 2.871
60
40
20
0
−20
−40
−60
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −37.41
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.04226
Std Dev 0.9465
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

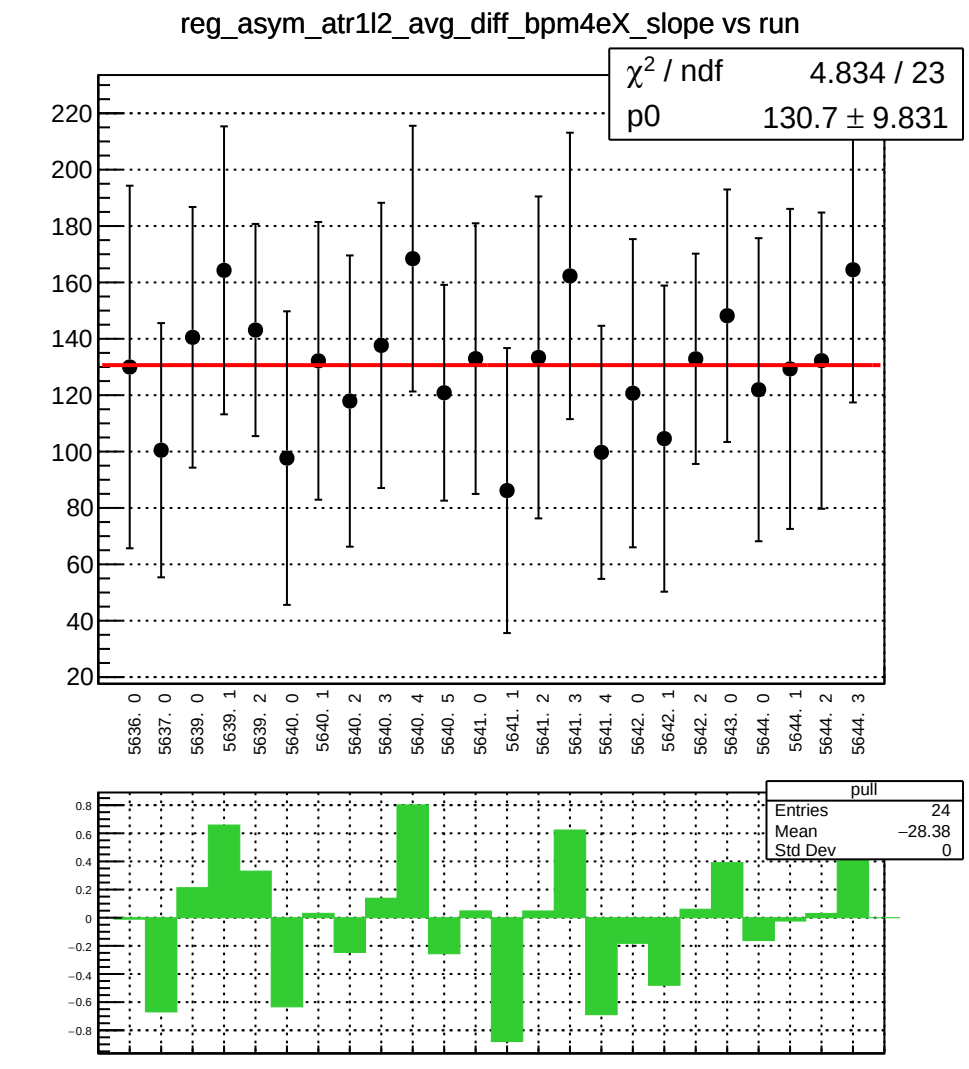

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 27.55 / 23
p0 −13.04 ± 4.477
40
20
0
−20
−40
−60
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 162.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.01856
Std Dev 1.071
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

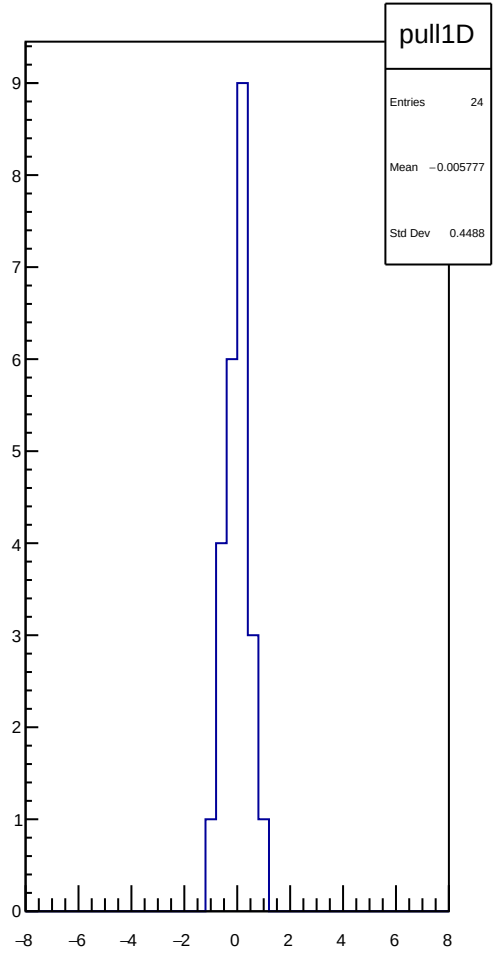

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.59 / 23
p0 −41.68 ± 3.649
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −35.82
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 24
Mean 0.04615
Std Dev 0.9474
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

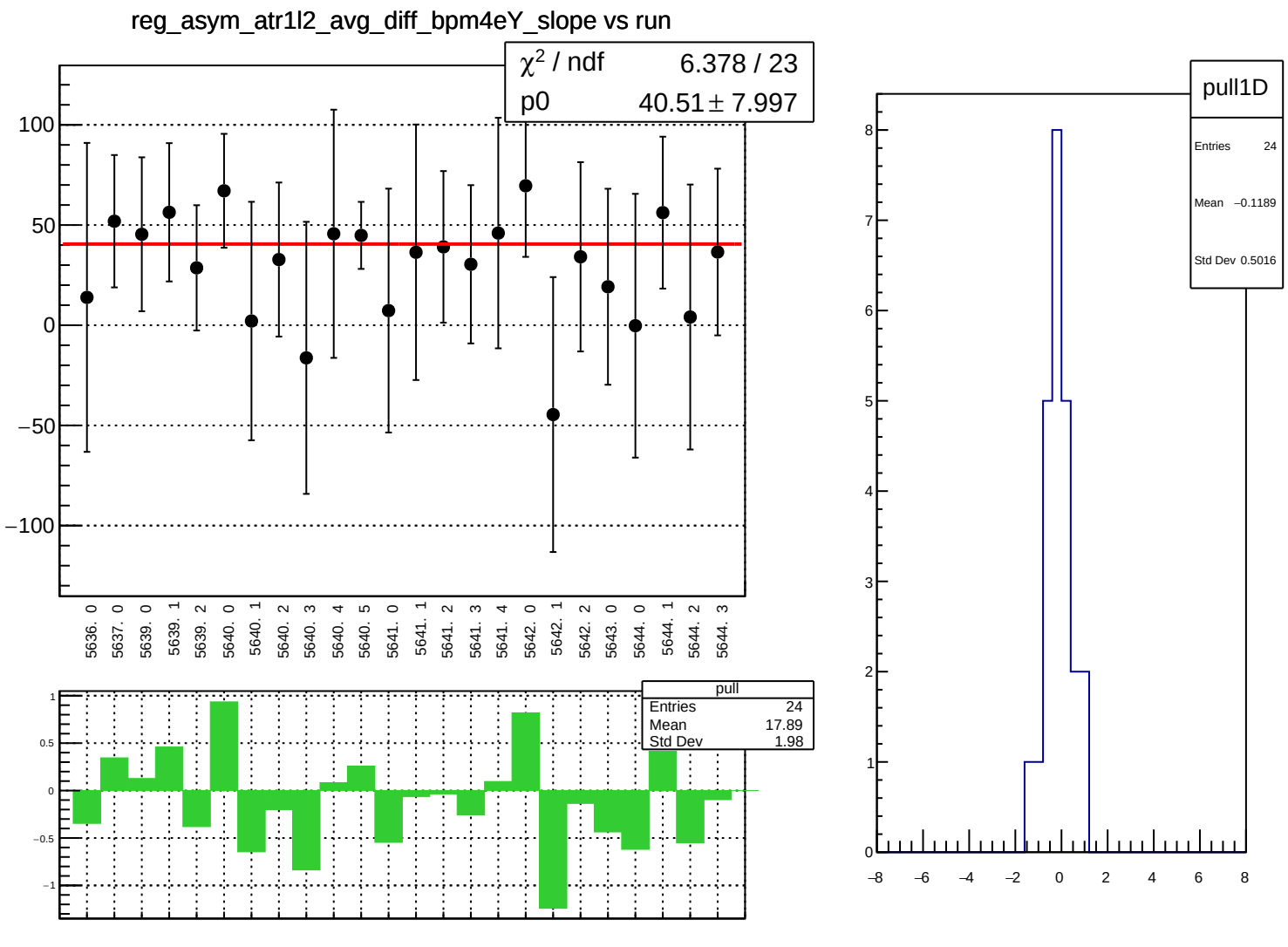

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 275 / 23
p0 −8.804 ± 0.1814
0
−2
−4
−6
−8
−10
−12
−14
−16
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −6.054
Std Dev 27.87
8
6
4
2
0
−2
−4
−6
pull1D
Entries 24
Mean −0.03728
Std Dev 3.385
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

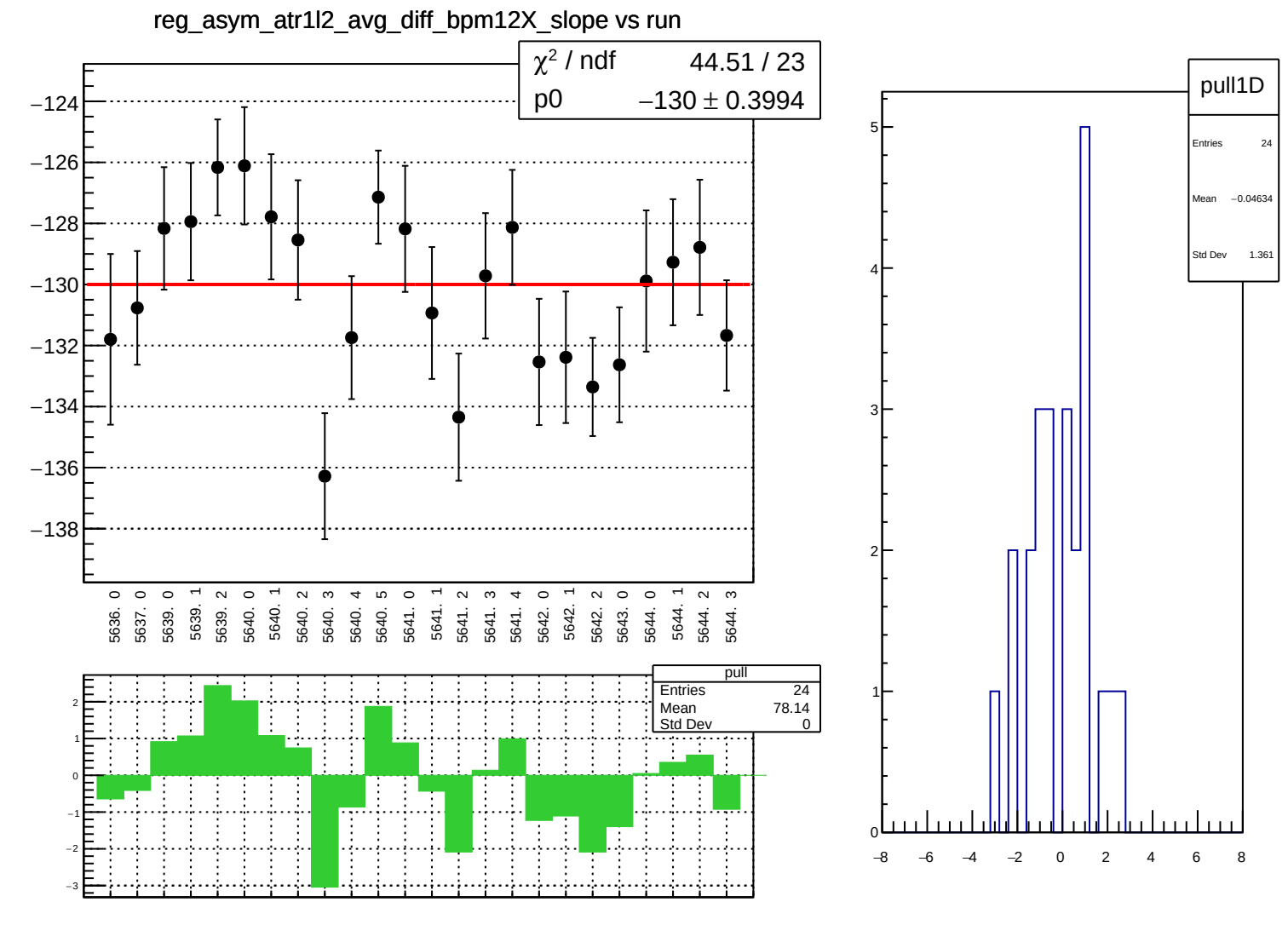

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 4.861 / 23
p0 −191.3 ± 11.33
−100
−150
−200
−250
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −30.24
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean 0.006154
Std Dev 0.45
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

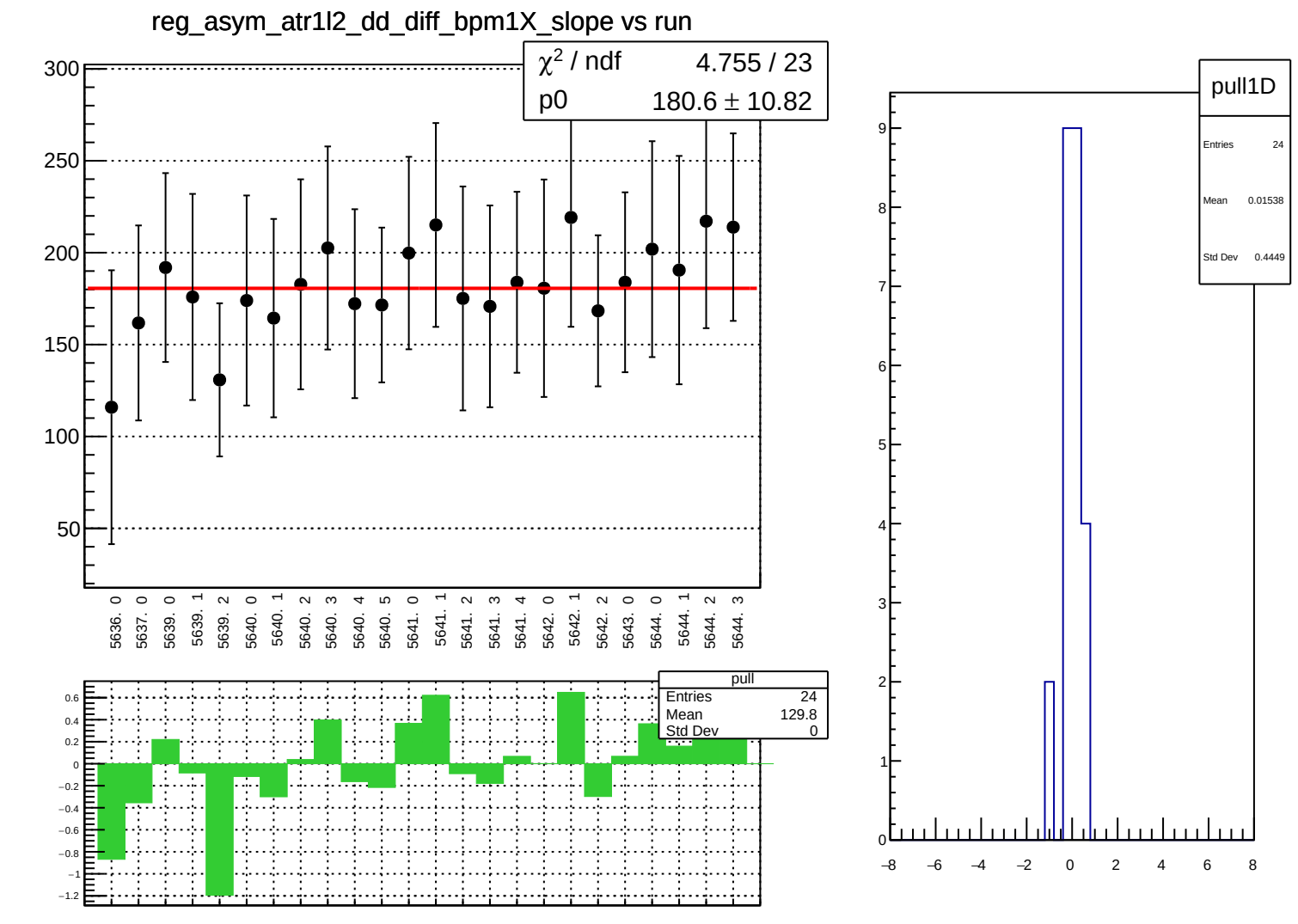

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.588 / 23
p0 12.64 ± 6.289
150
100
50
0
−50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 18.22
Std Dev 1.618
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean 0.1449
Std Dev 0.5035
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

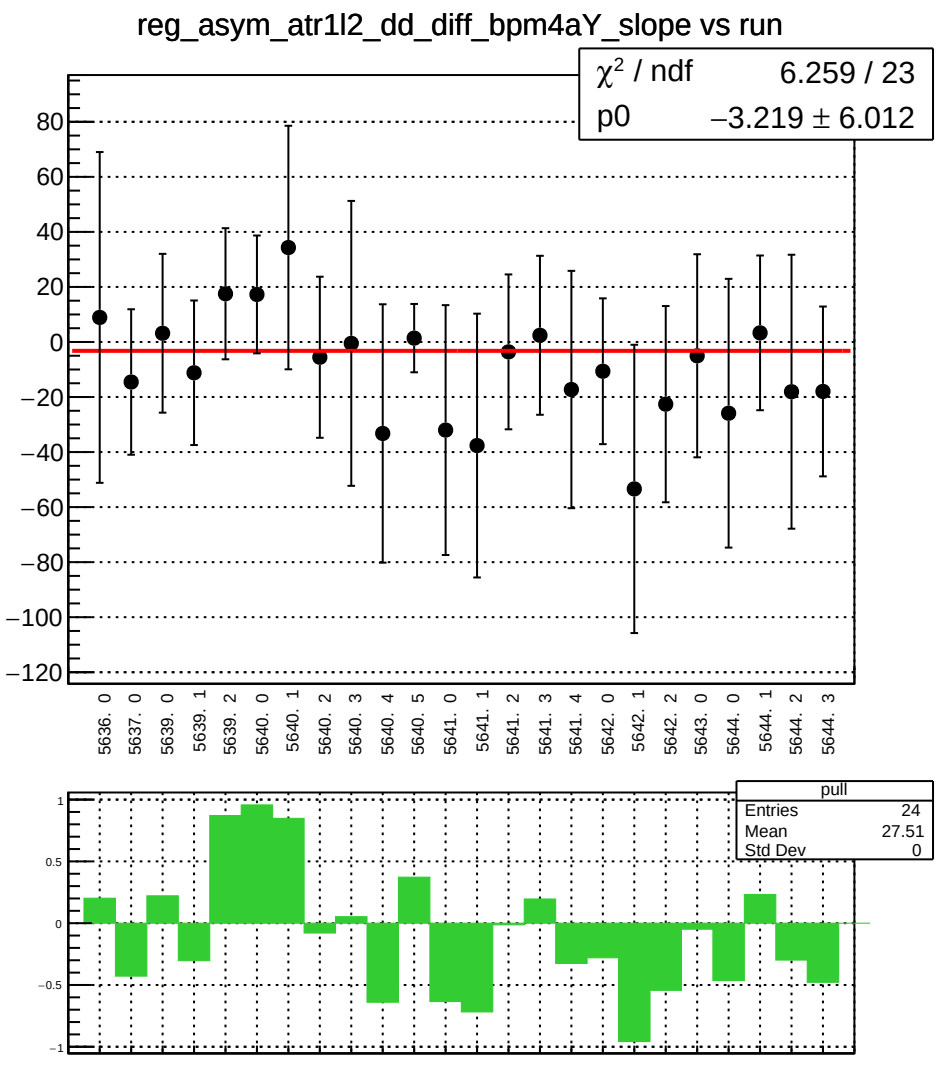

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 4.834 / 23
p0 130.7 ± 9.831
220
200
180
160
140
120
100
80
60
40
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −28.38
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

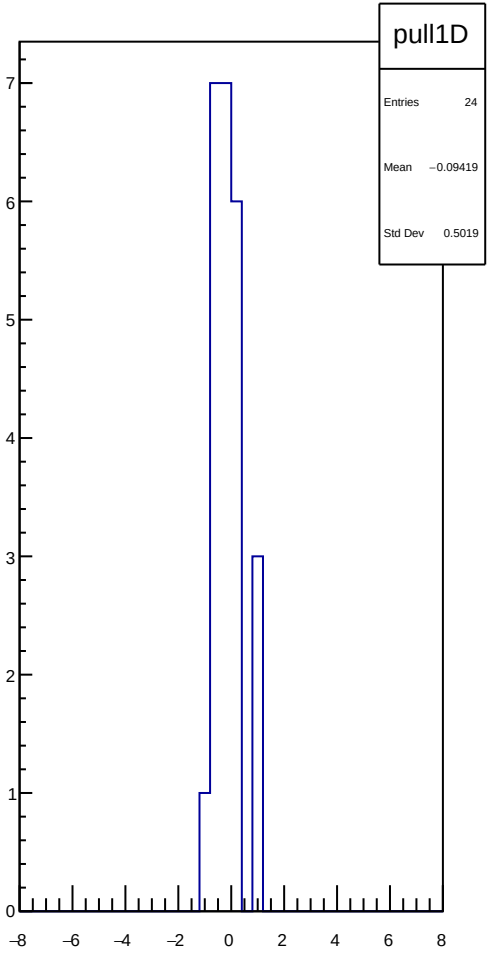

pull1D
Entries 24
Mean −0.005777
Std Dev 0.4488
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

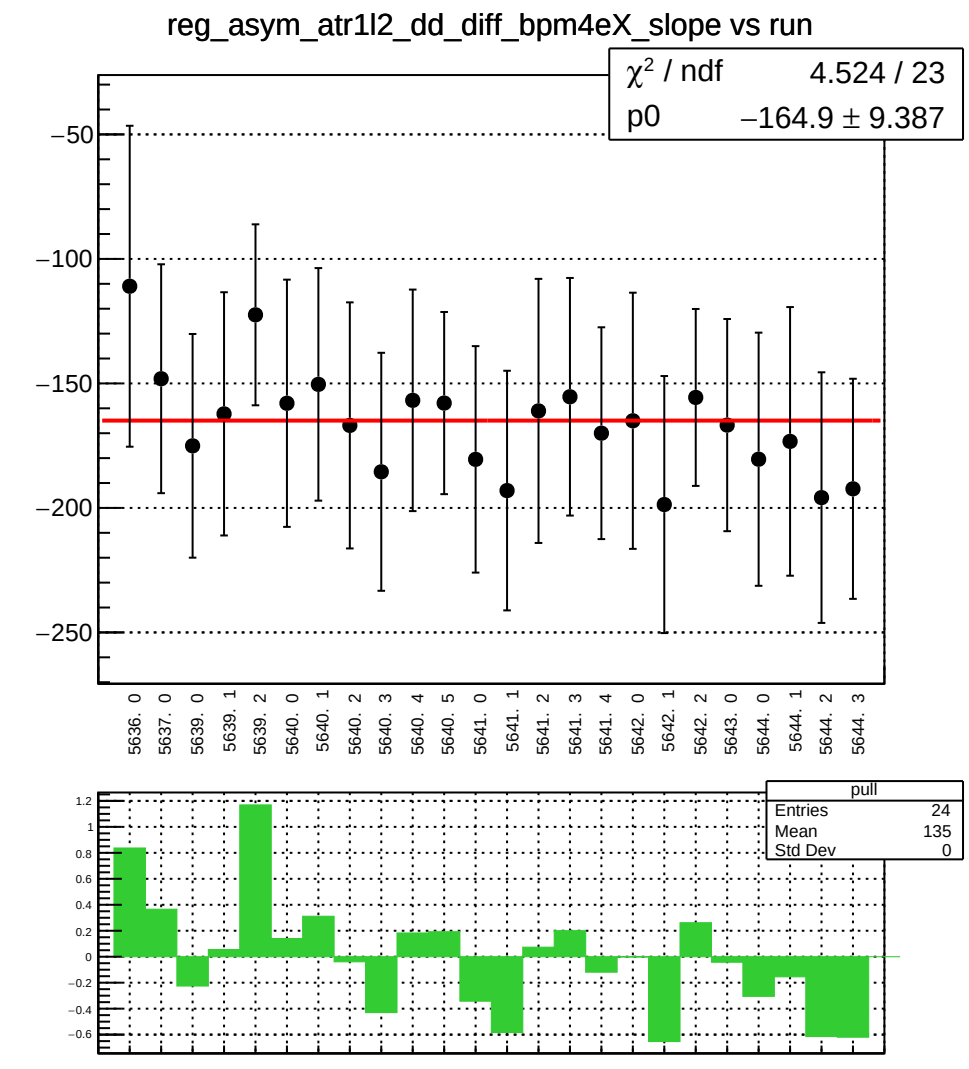

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.378 / 23
p0 40.51 ± 7.997
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 17.89
Std Dev 1.98
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.1189
Std Dev 0.5016
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

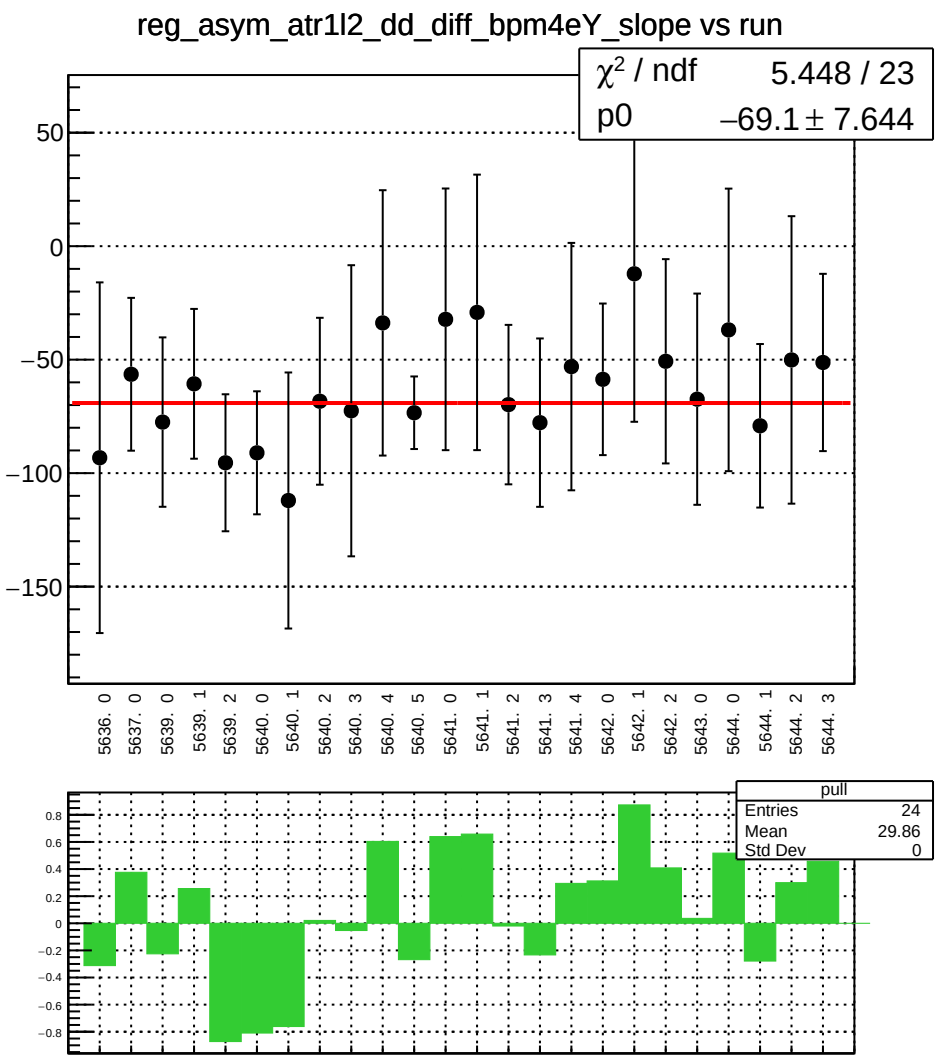

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 44.51 / 23
p0 −130 ± 0.3994
−124
−126
−128
−130
−132
−134
−136
−138
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 78.14
Std Dev 0
pull1D
Entries 24
Mean −0.04634
Std Dev 1.361

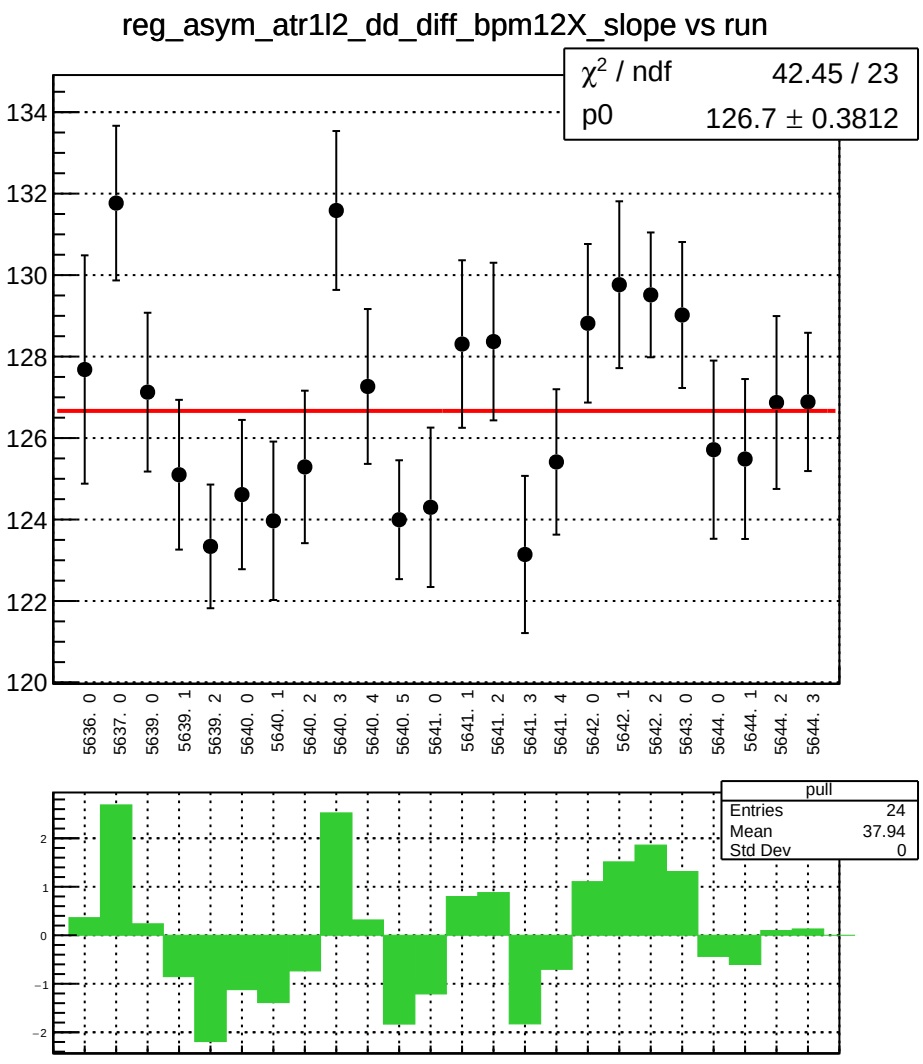

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 4.755 / 23
p0 180.6 ± 10.82
300
250
200
150
100
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 129.8
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 24
Mean 0.01538
Std Dev 0.4449
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

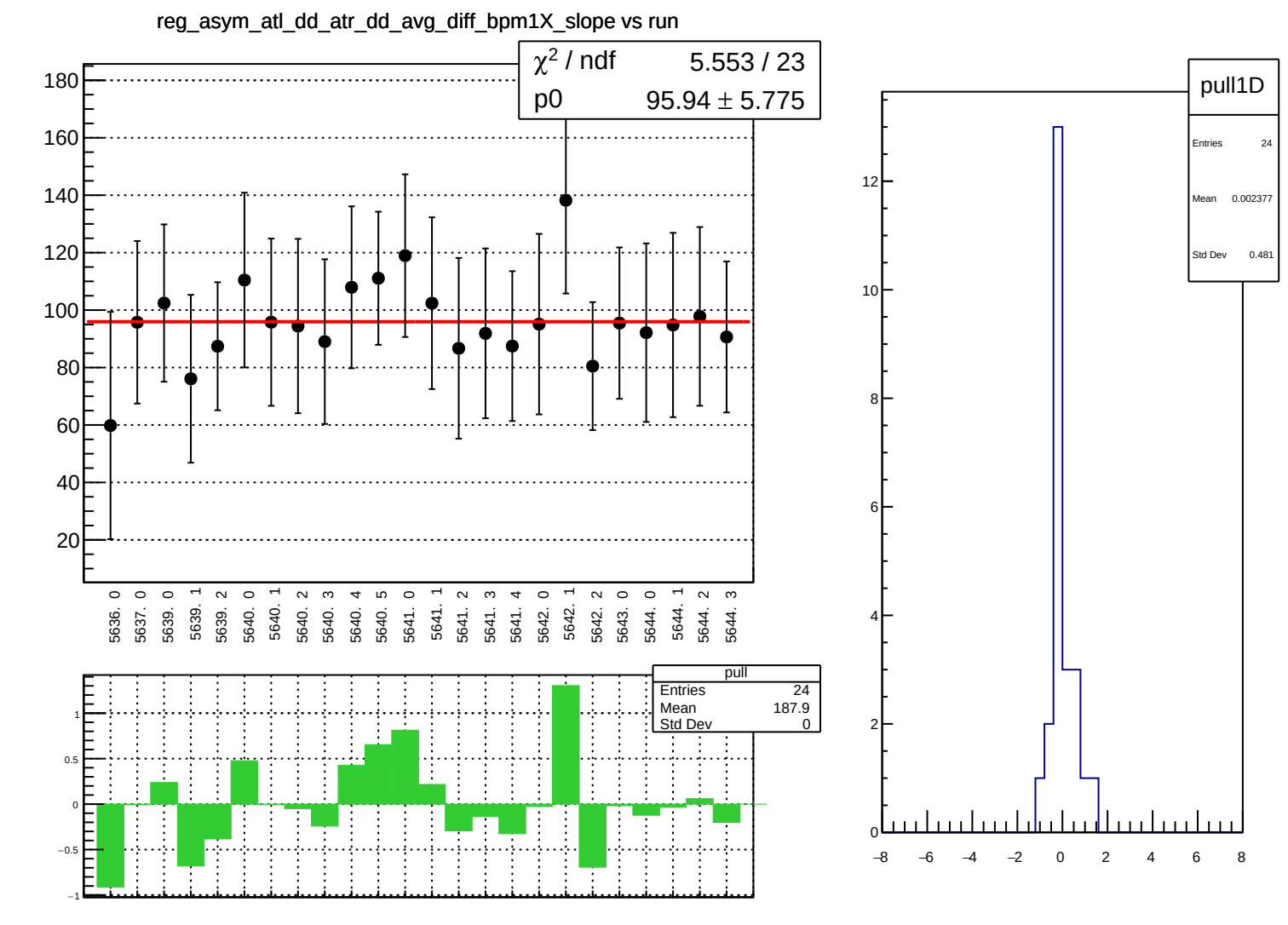

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.259 / 23
p0 −3.219 ± 6.012
80
60
40
20
0
−20
−40
−60
−80
−100
−120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 27.51
Std Dev 0
1
0.5
0
−0.5
−1

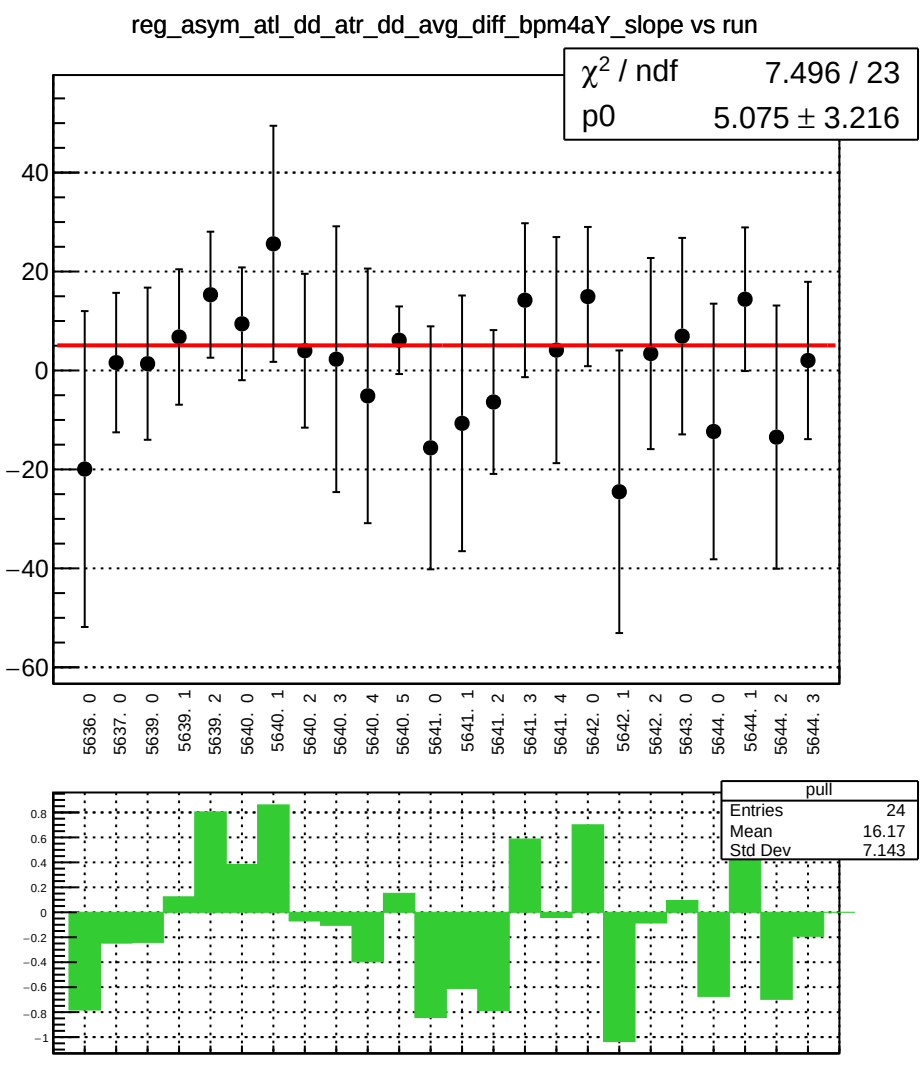

pull1D
Entries 24
Mean −0.09419
Std Dev 0.5019
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

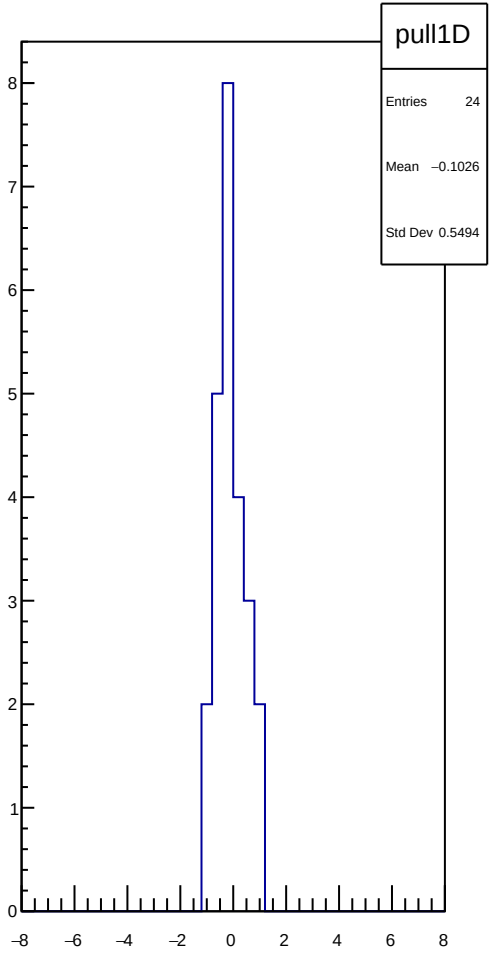

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.524 / 23
p0 −164.9 ± 9.387
−50
−100
−150
−200
−250
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 135
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 24
Mean −0.01425
Std Dev 0.4339
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

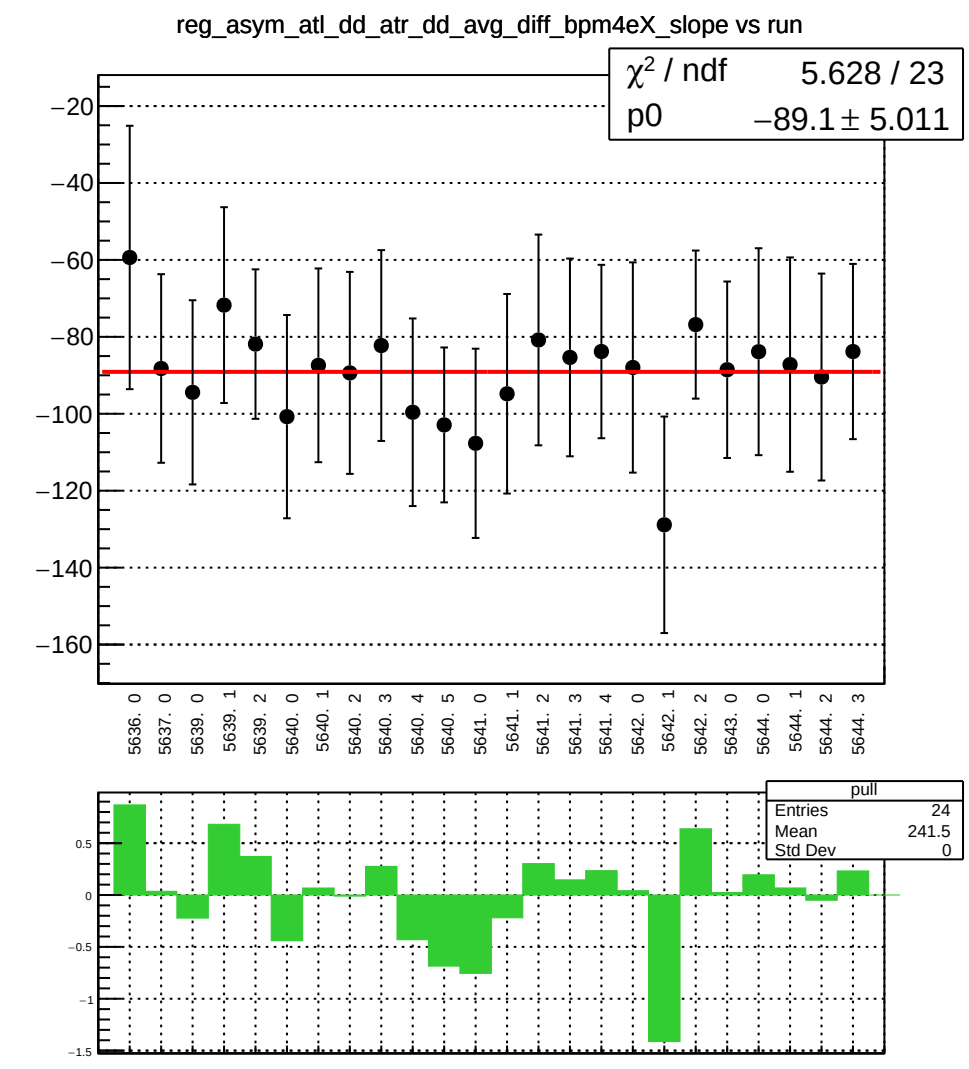

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.448 / 23
p0 −69.1 ± 7.644
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 29.86
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean 0.08002
Std Dev 0.4697
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

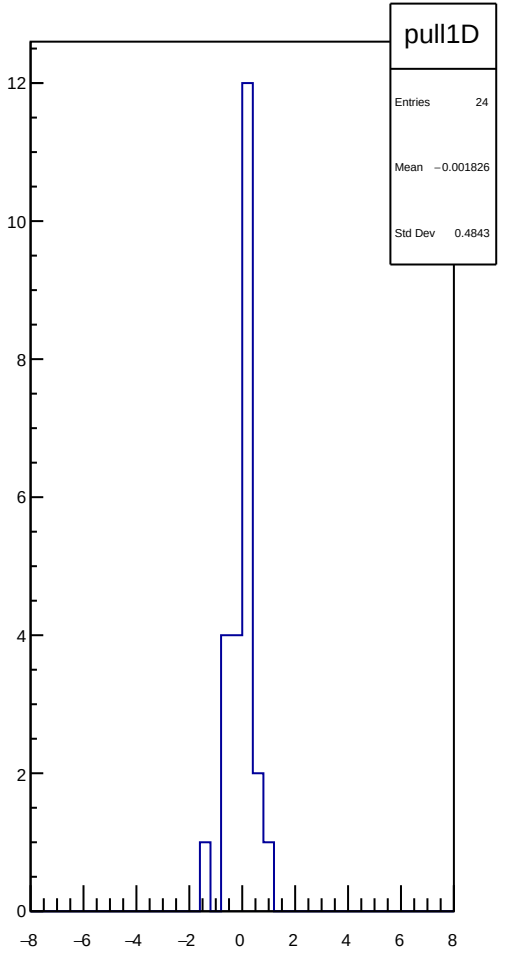

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 42.45 / 23
p0 126.7 ± 0.3812
134
132
130
128
126
124
122
120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 37.94
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 24
Mean 0.03859
Std Dev 1.329
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

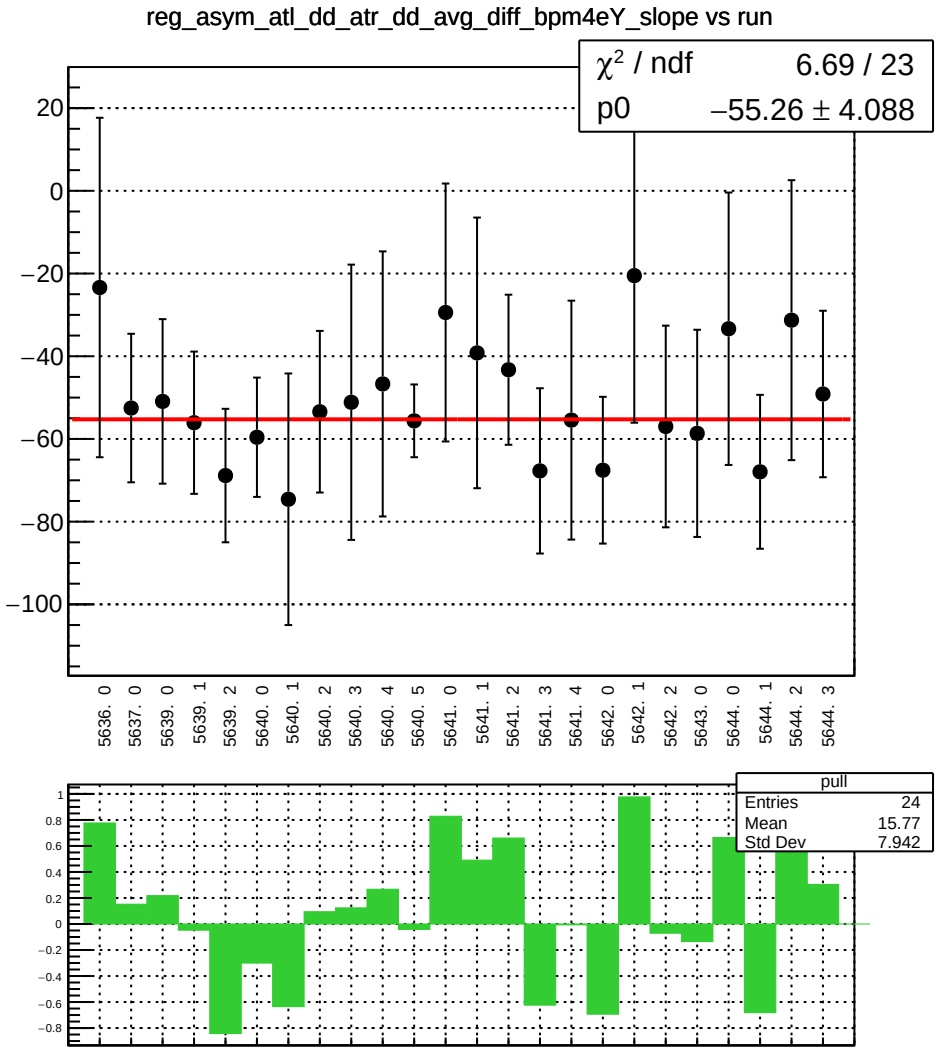

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 5.553 / 23
p0 95.94 ± 5.775
180
160
140
120
100
80
60
40
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 187.9
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.002377
Std Dev 0.481
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

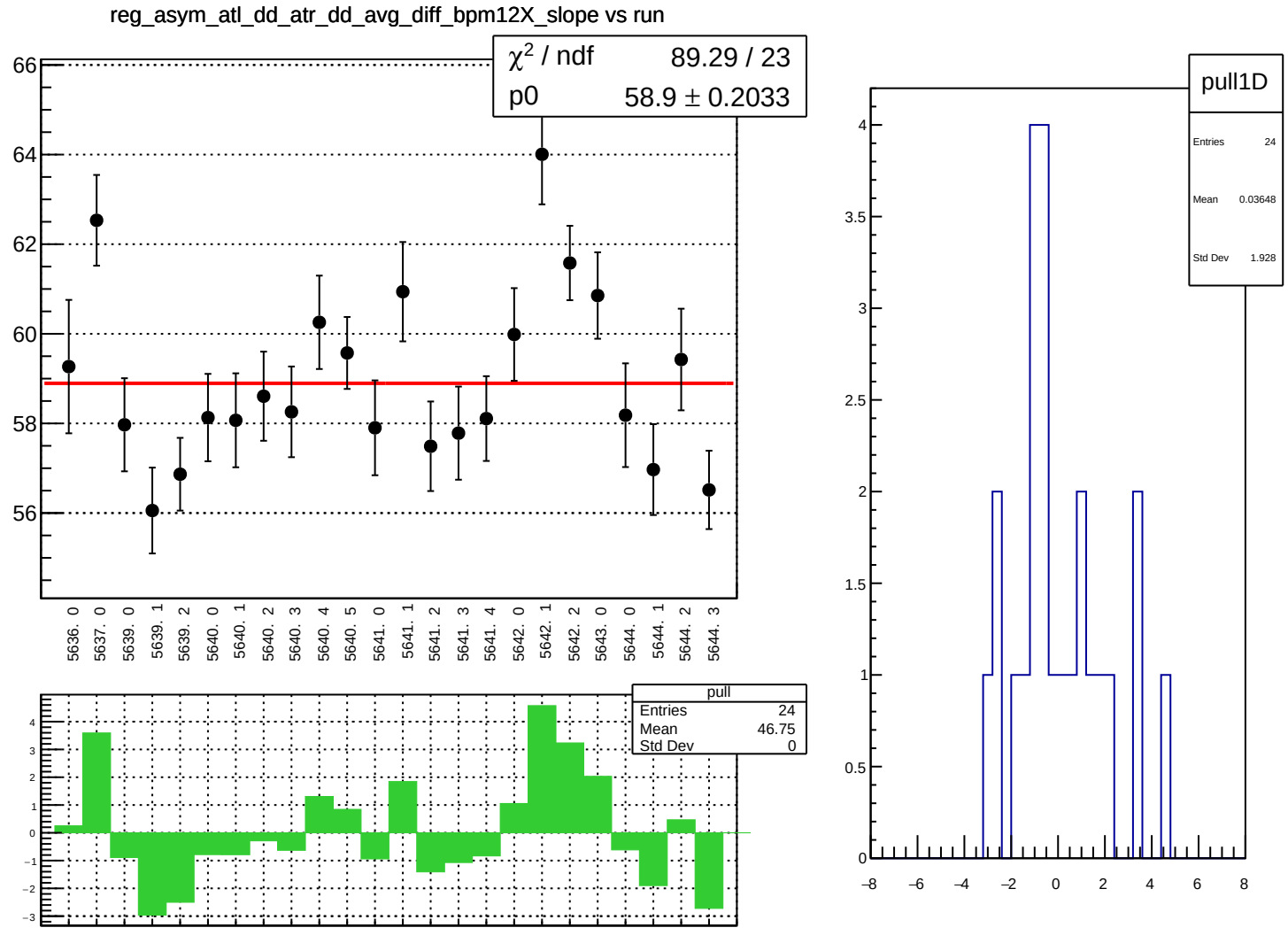

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.496 / 23
p0 5.075 ± 3.216
40
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 16.17
Std Dev 7.143
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

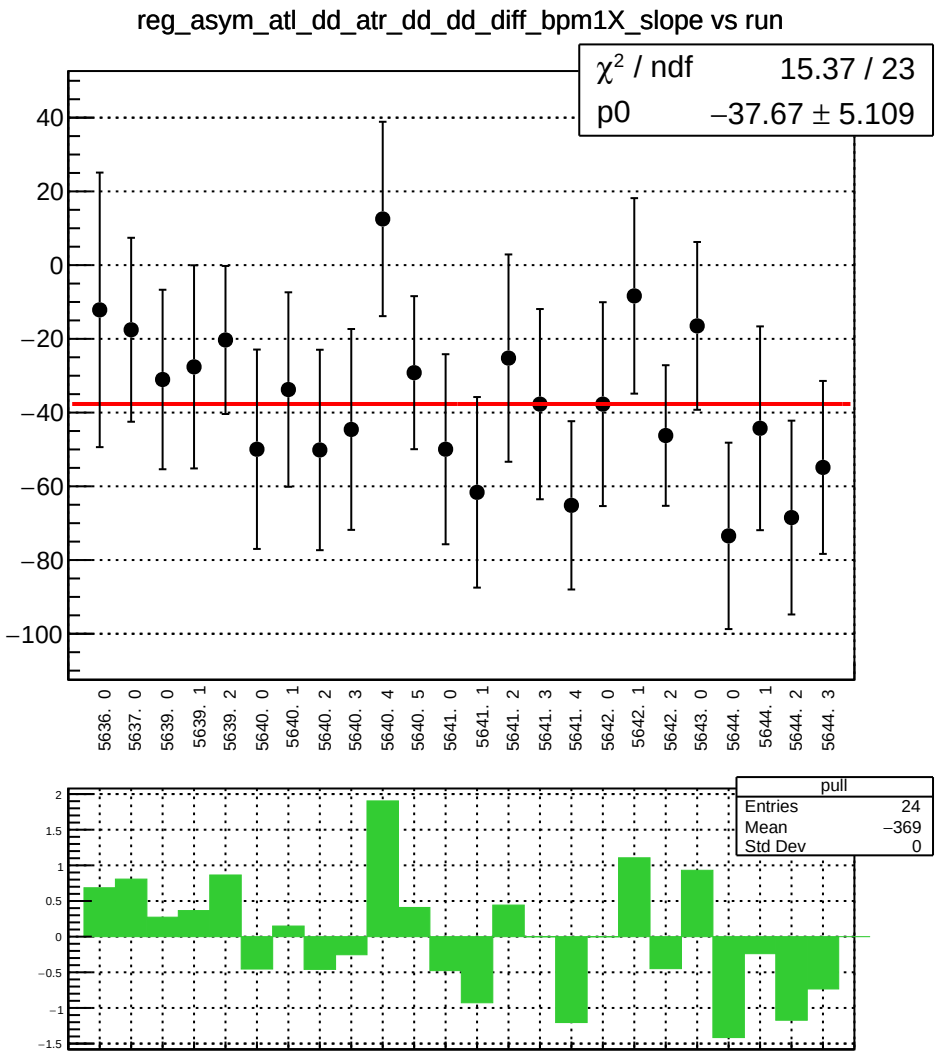

pull1D
Entries 24
Mean −0.1026
Std Dev 0.5494
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

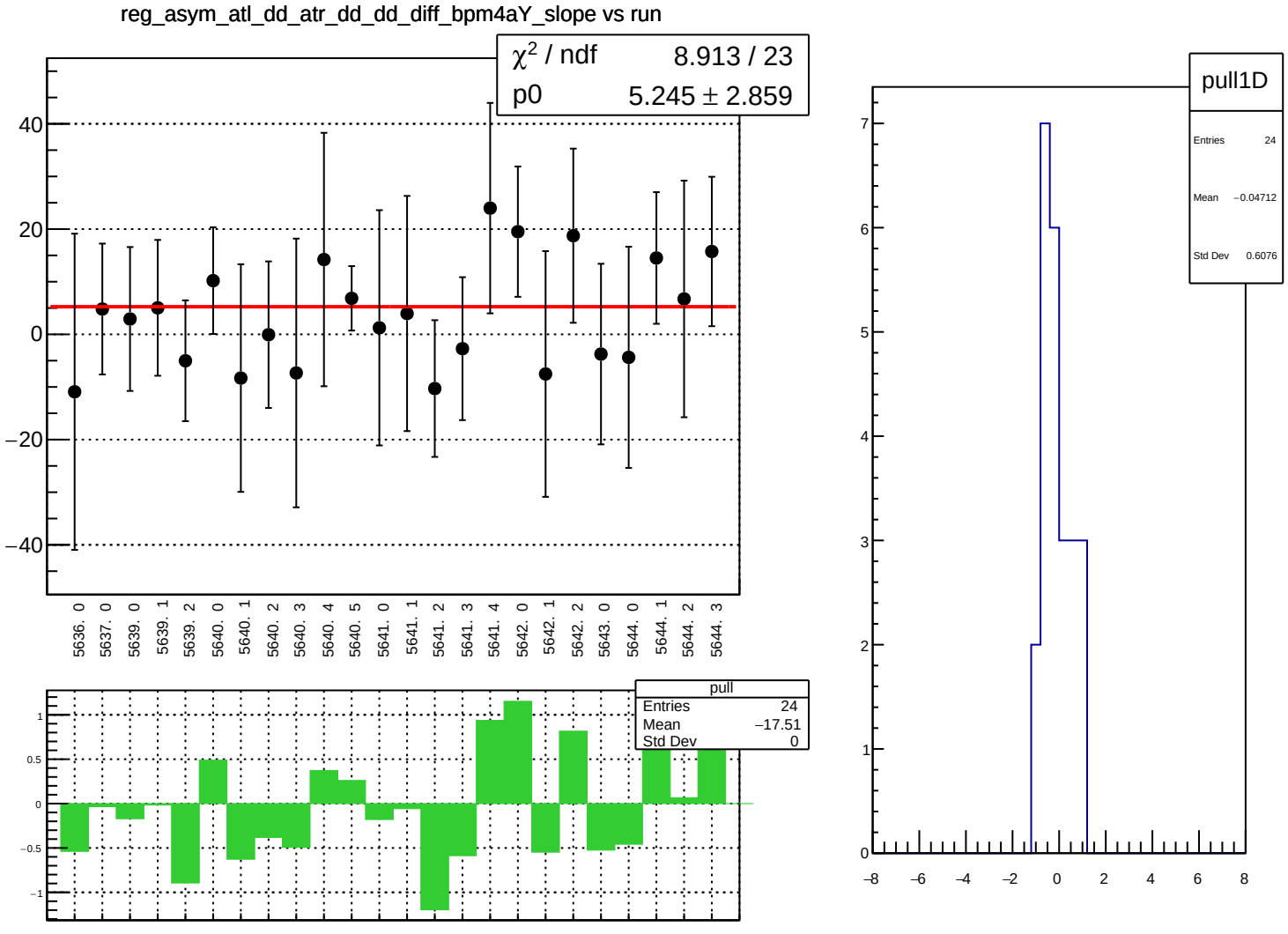

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.628 / 23
p0 −89.1 ± 5.011
−20
−40
−60
−80
−100
−120
−140
−160
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 241.5
Std Dev 0
0.5
0
−0.5
−1
−1.5

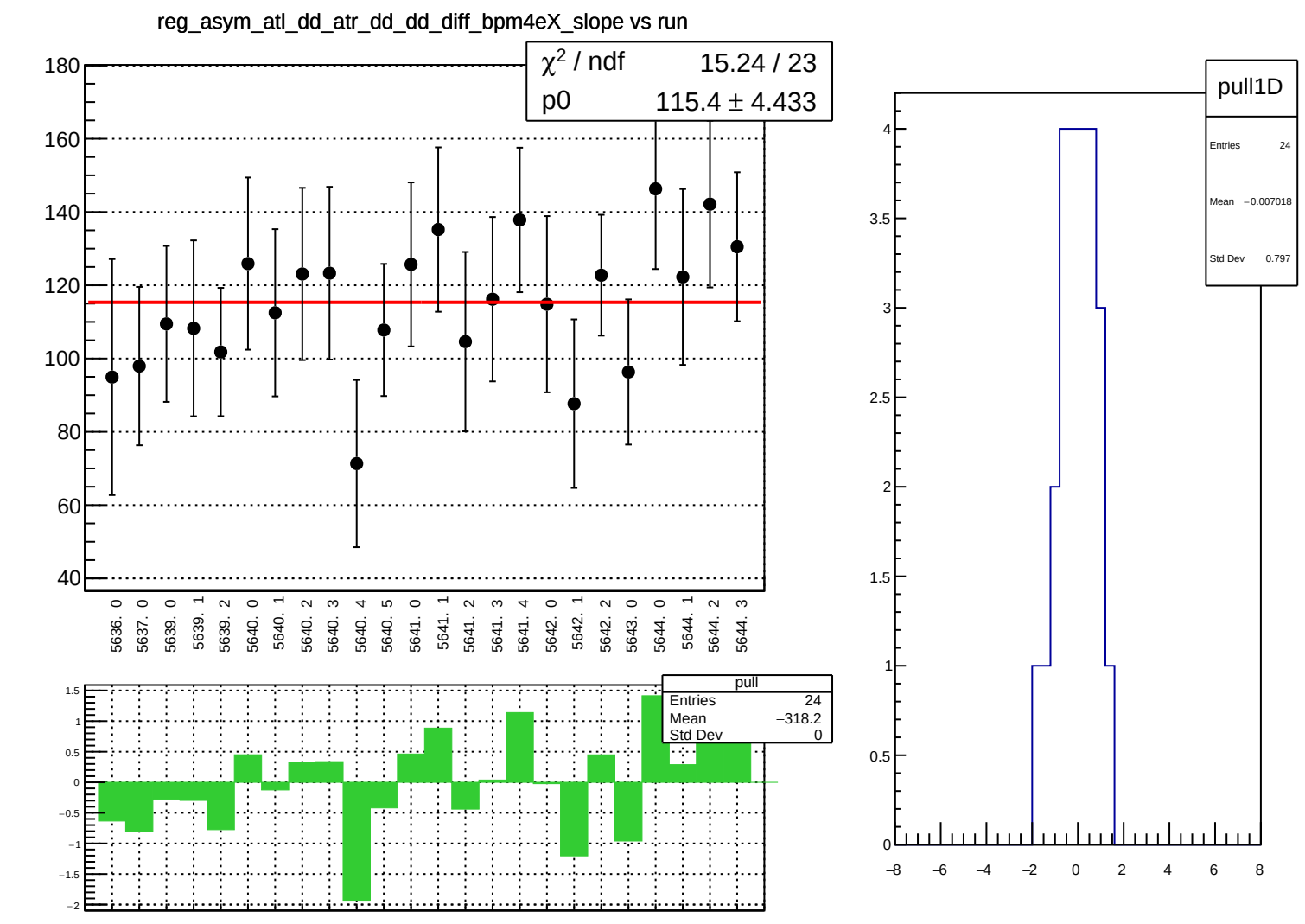

pull1D
Entries 24
Mean −0.001826
Std Dev 0.4843
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

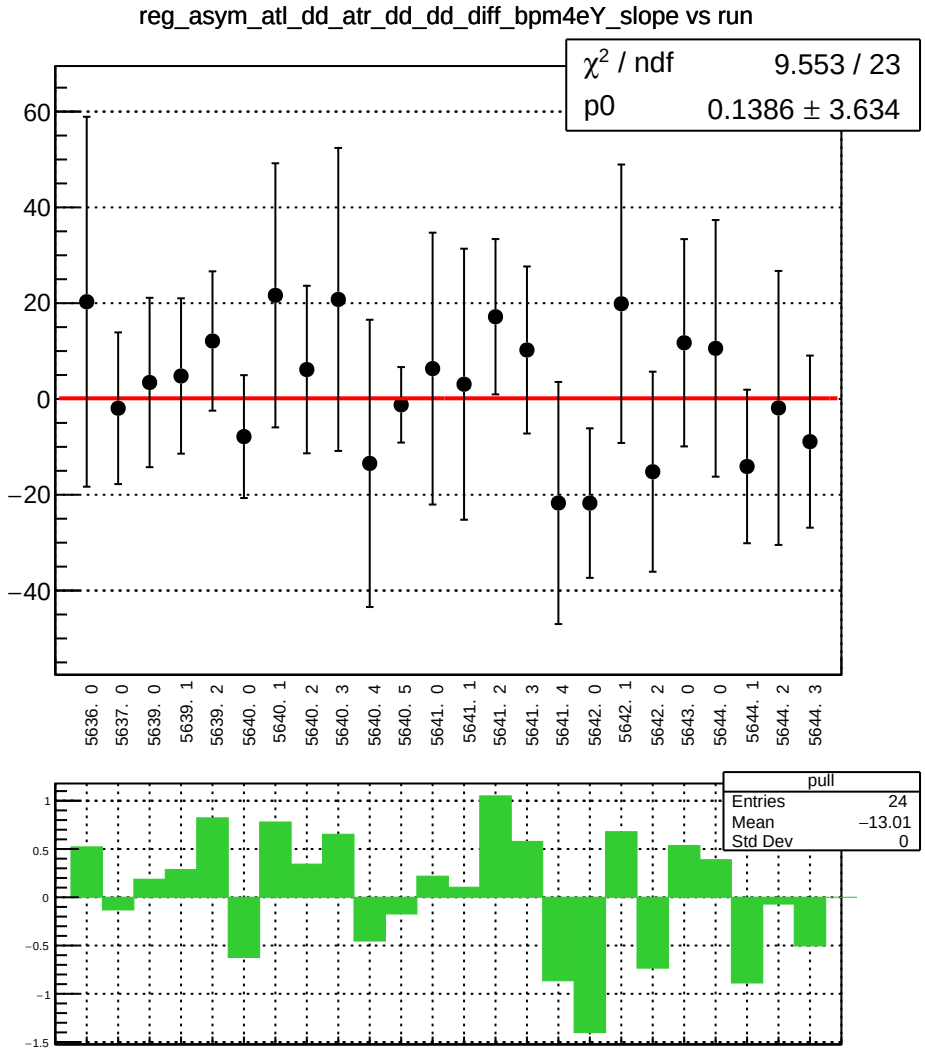

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.69 / 23
p0 −55.26 ± 4.088
20
0
−20
−40
−60
−80
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 15.77
Std Dev 7.942
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean 0.09113
Std Dev 0.5201
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

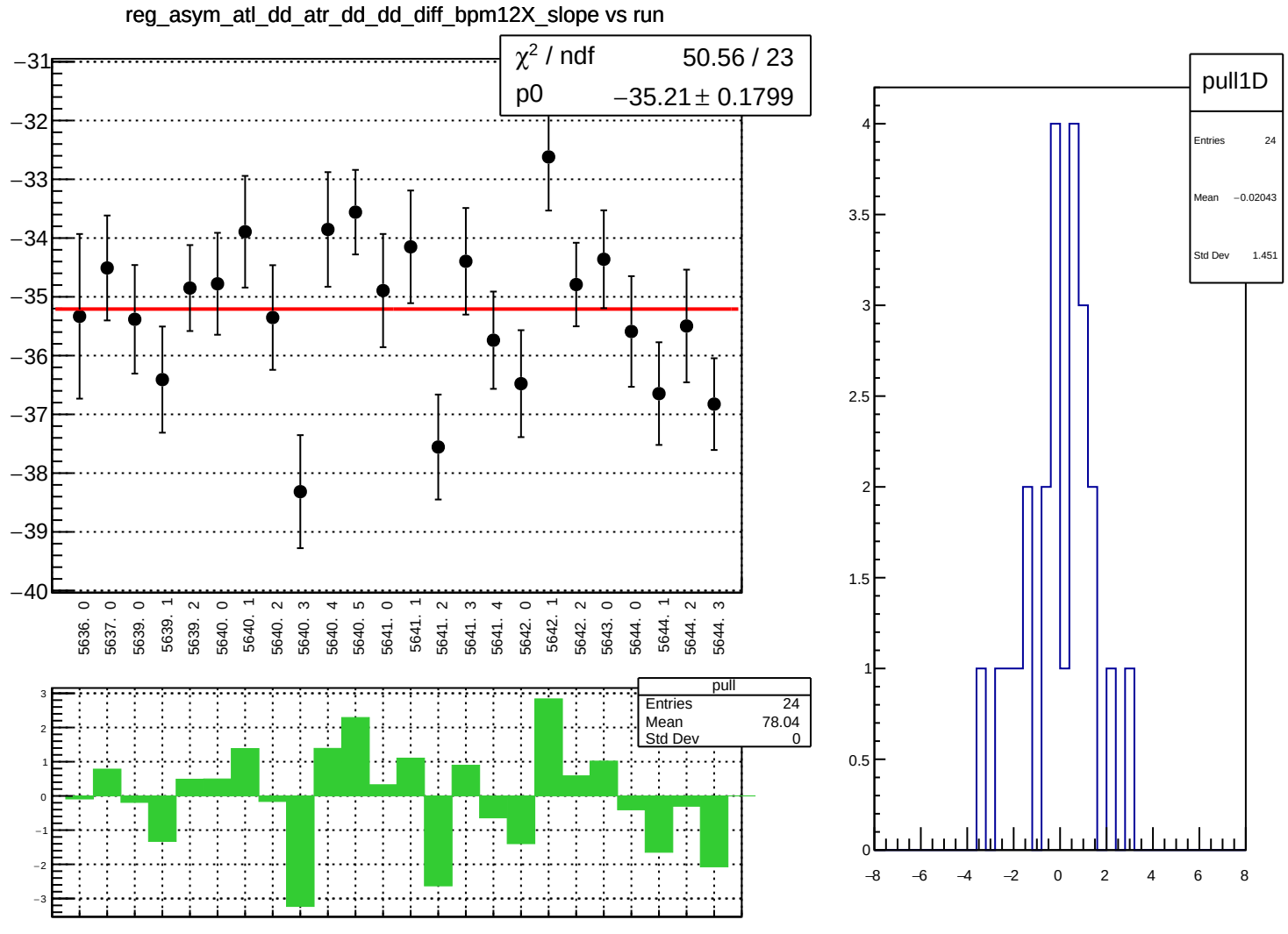

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 89.29 / 23
p0 58.9 ± 0.2033
66
64
62
60
58
56
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 46.75
Std Dev 0
pull1D
Entries 24
Mean 0.03648
Std Dev 1.928

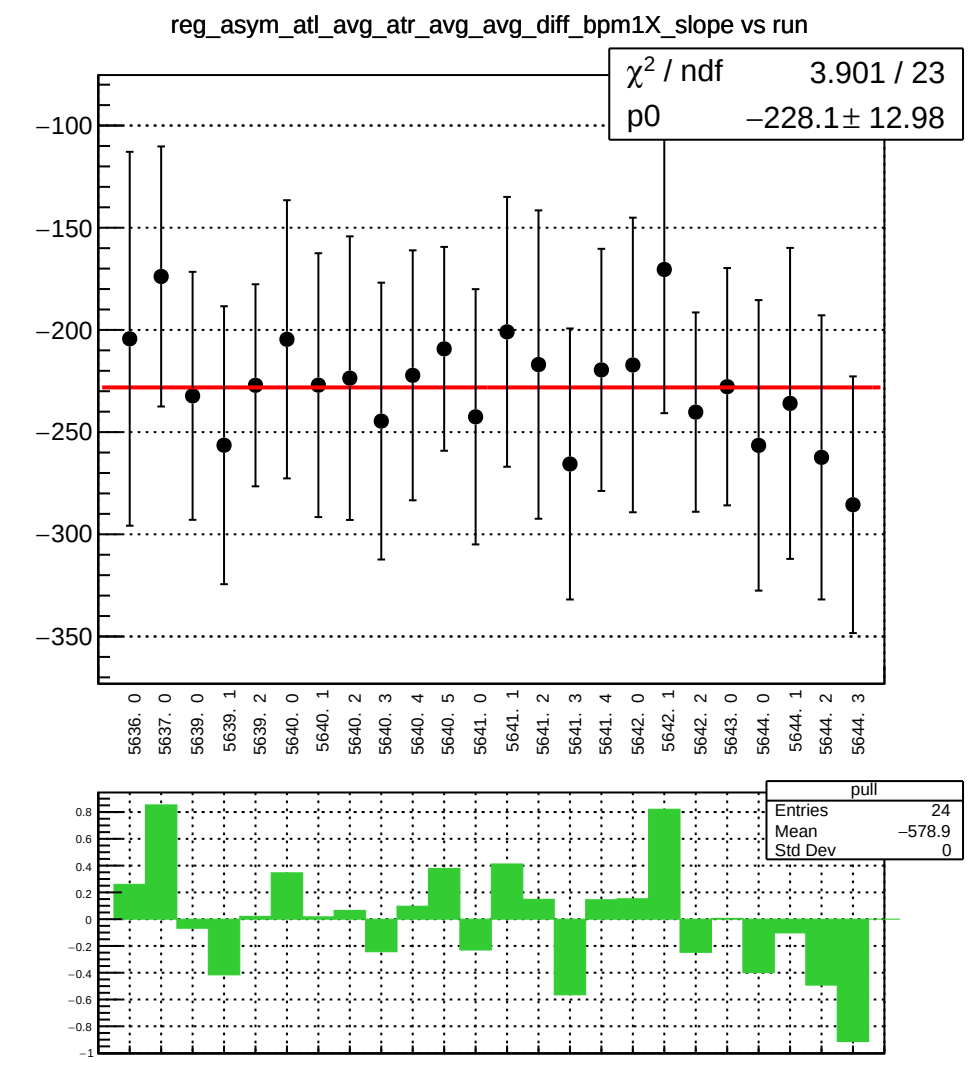

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 15.37 / 23
p0 −37.67 ± 5.109
40
20
0
−20
−40
−60
−80
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −369
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.00629
Std Dev 0.8002
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

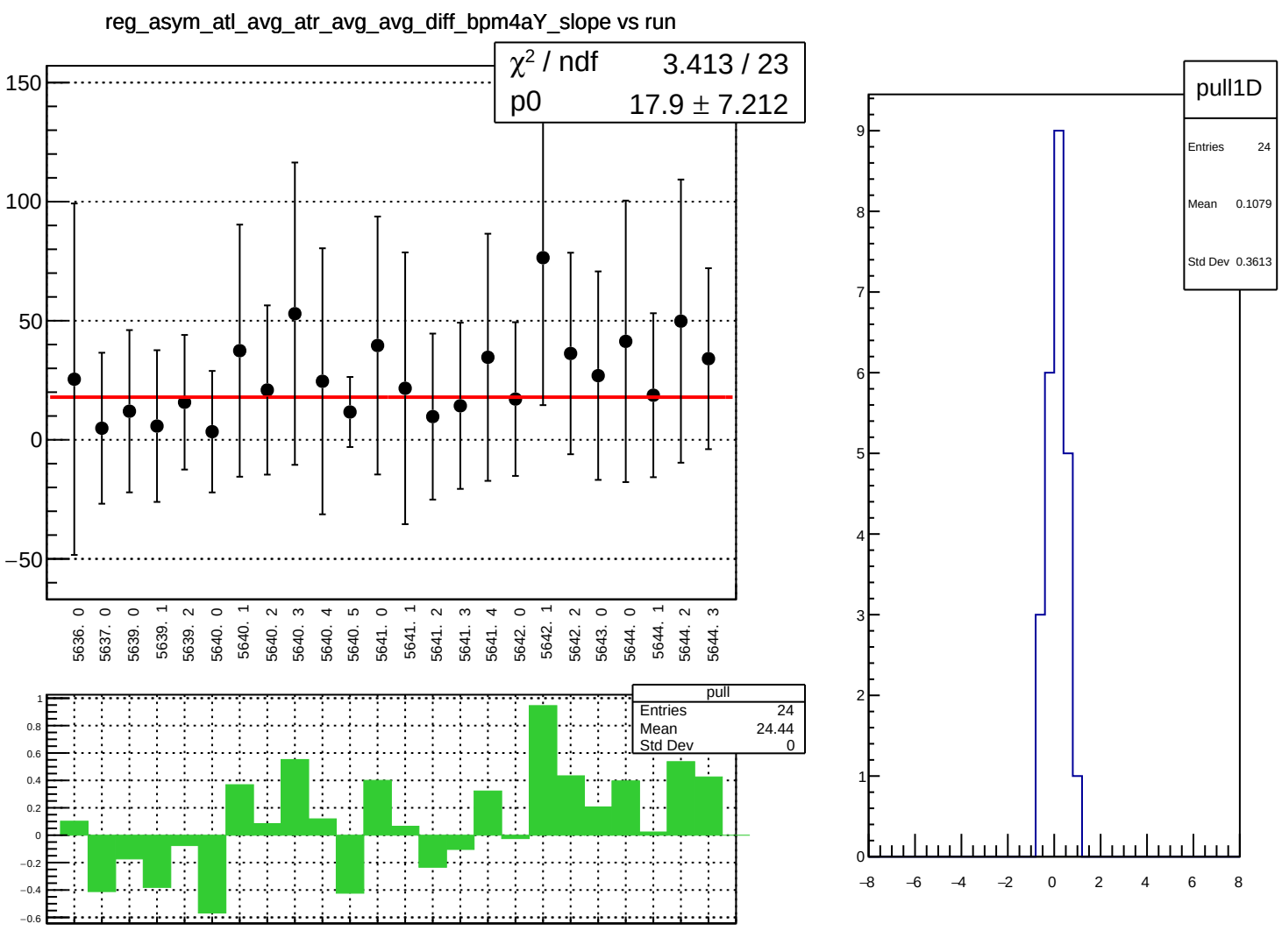

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.913 / 23
p0 5.245 ± 2.859
40
20
0
−20
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −17.51
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.04712
Std Dev 0.6076
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

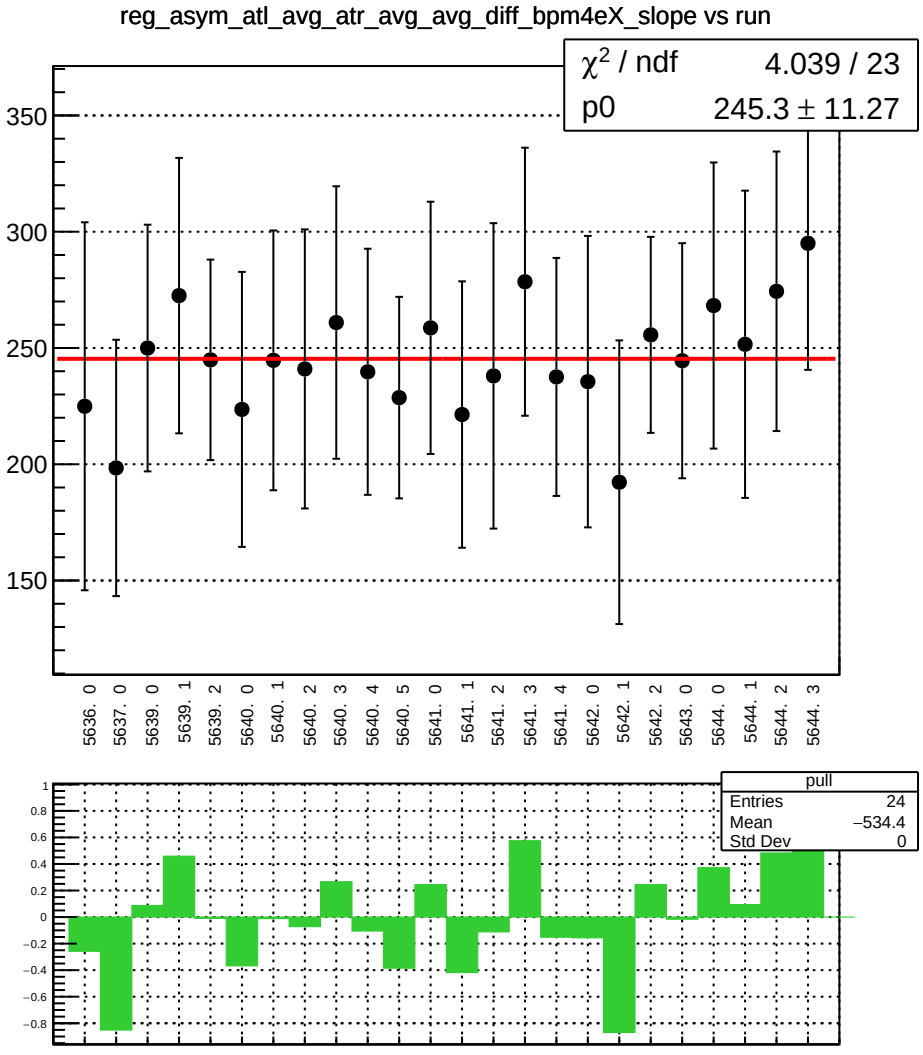

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.24 / 23
p0 115.4 ± 4.433
180
160
140
120
100
80
60
40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −318.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.007018
Std Dev 0.797
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

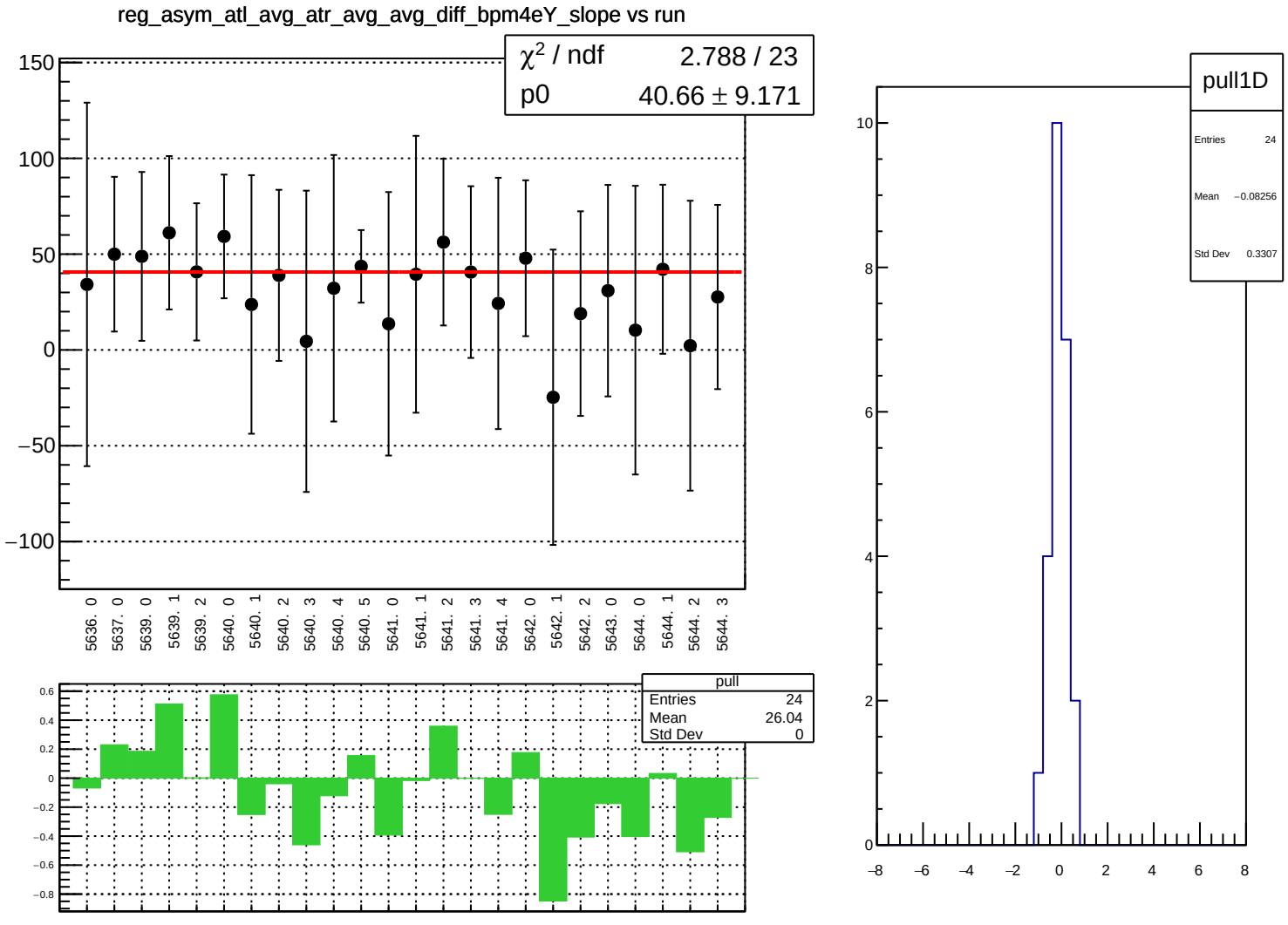

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.553 / 23
p0 0.1386 ± 3.634
60
40
20
0
−20
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −13.01
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.05453
Std Dev 0.6285
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

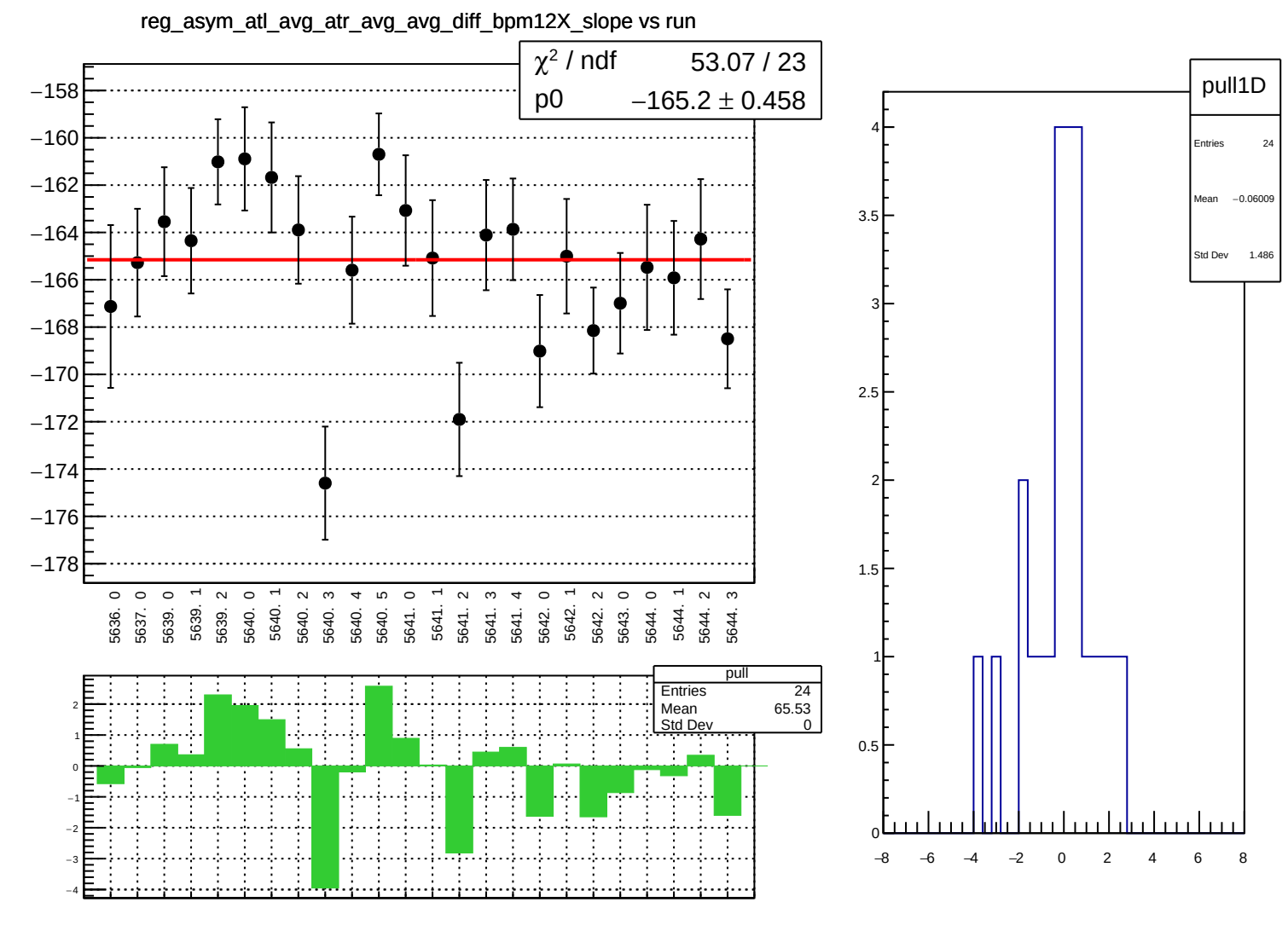

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 50.56 / 23
p0 −35.21 ± 0.1799
−31
−32
−33
−34
−35
−36
−37
−38
−39
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 78.04
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean −0.02043
Std Dev 1.451
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

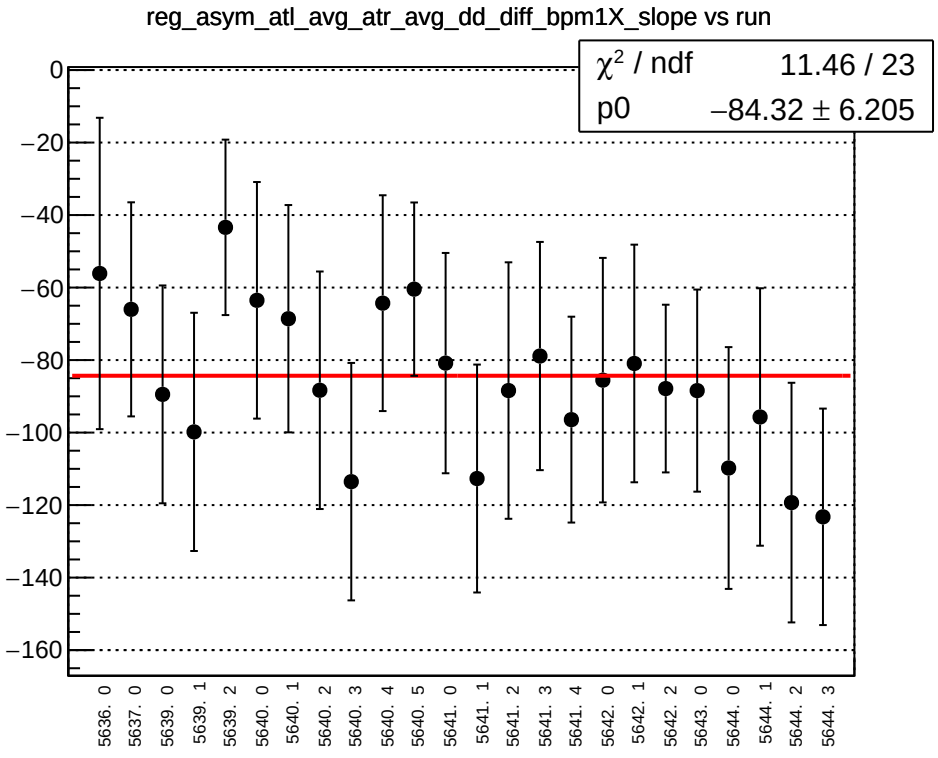

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 3.901 / 23
p0 −228.1± 12.98
−100
−150
−200
−250
−300
−350
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −578.9
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 24
Mean 0.001925
Std Dev 0.4032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

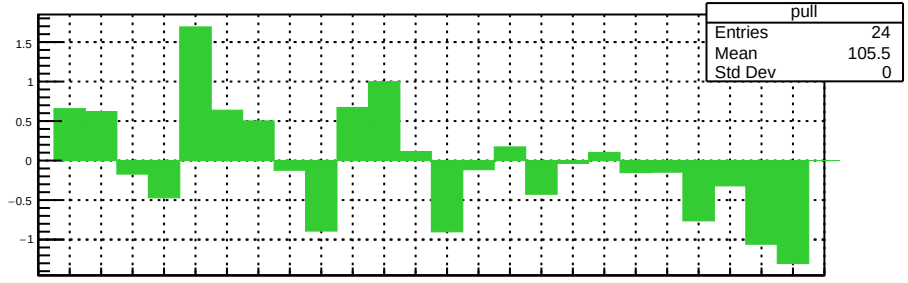

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.413 / 23
p0 17.9 ± 7.212
150
100
50
0
−50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 24.44
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 24
Mean 0.1079
Std Dev 0.3613
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

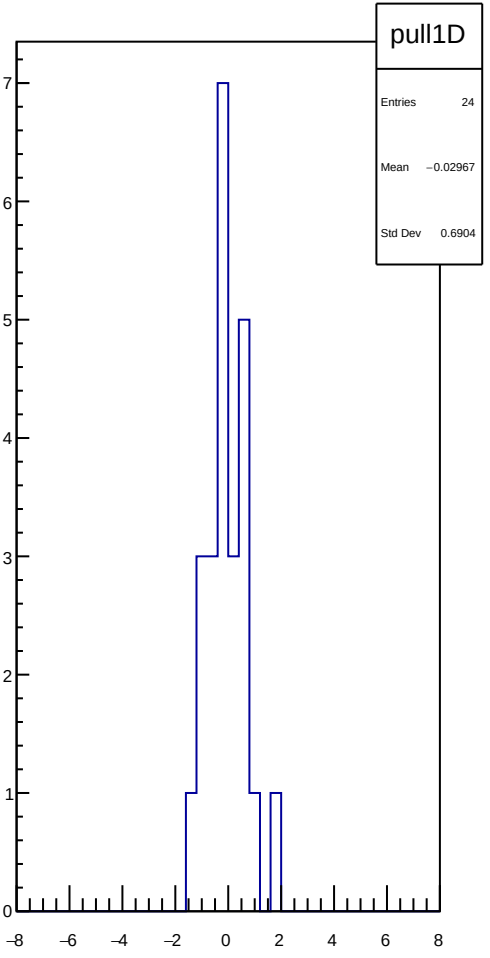

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.039 / 23
p0 245.3 ± 11.27
350
300
250
200
150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −534.4
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean −0.00198
Std Dev 0.4102
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

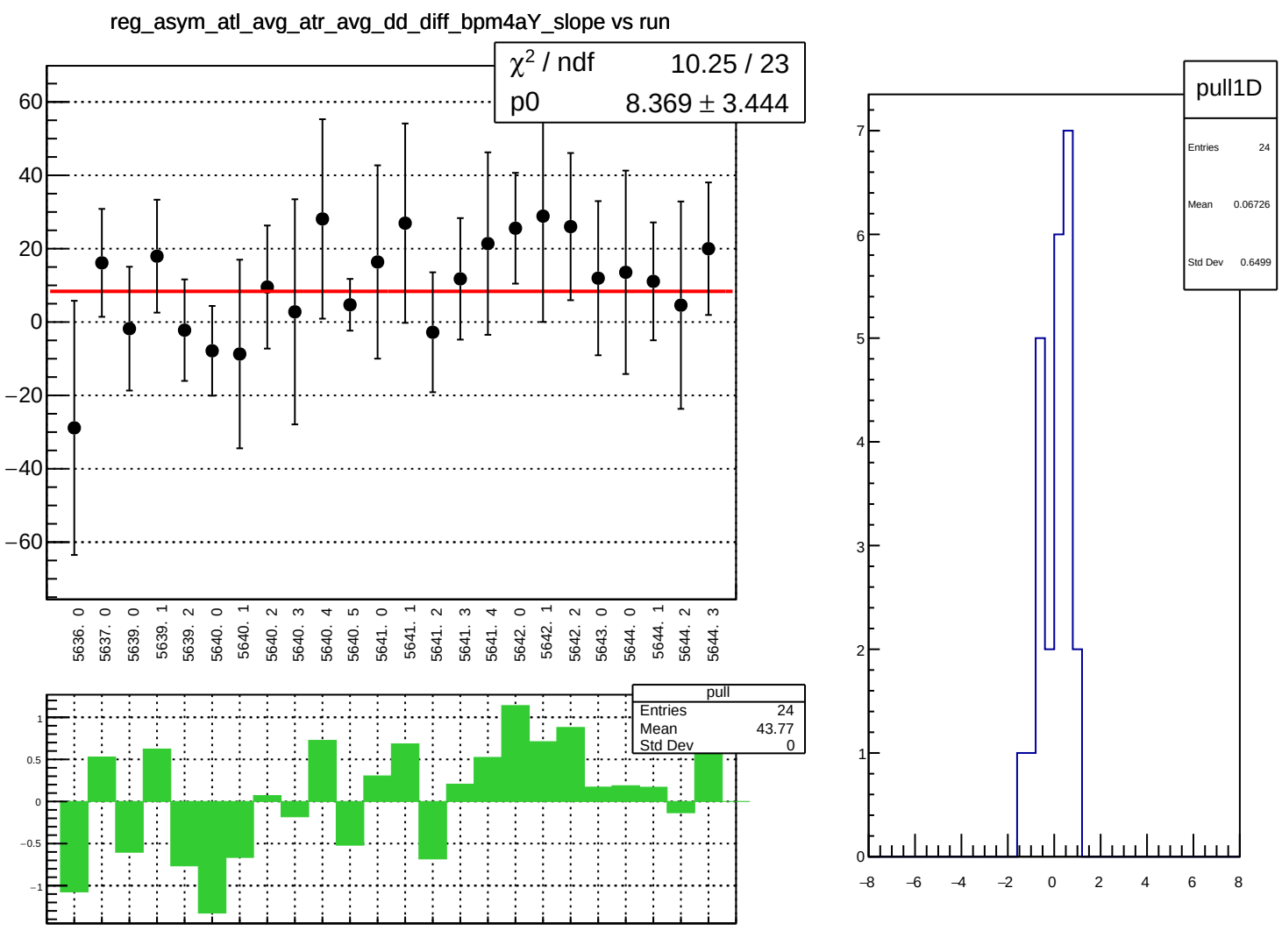

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.788 / 23
p0 40.66 ± 9.171
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 26.04
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean −0.08256
Std Dev 0.3307
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

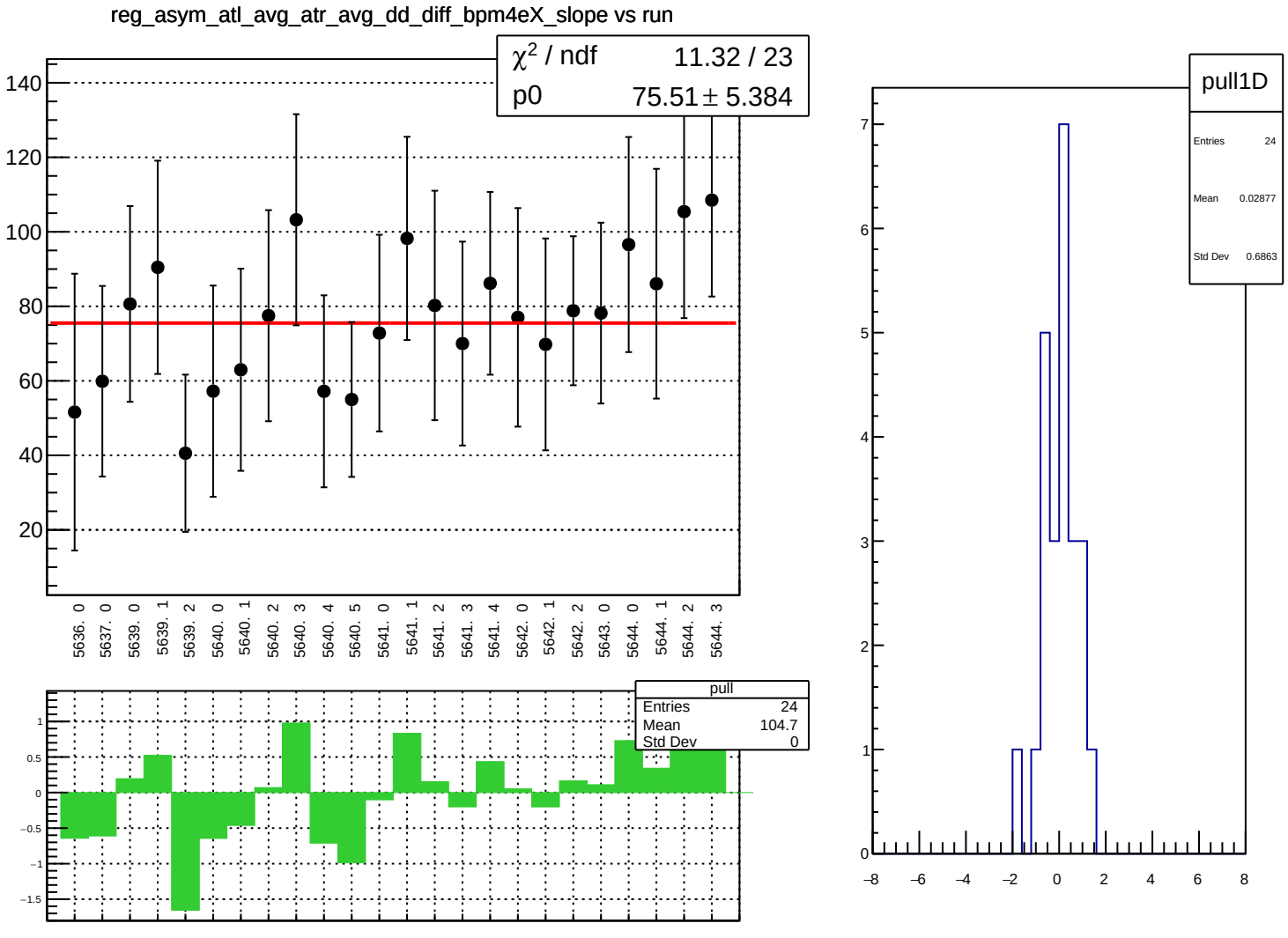

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 53.07 / 23
p0 −165.2 ± 0.458
−158
−160
−162
−164
−166
−168
−170
−172
−174
−176
−178
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 65.53
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 24
Mean −0.06009
Std Dev 1.486
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

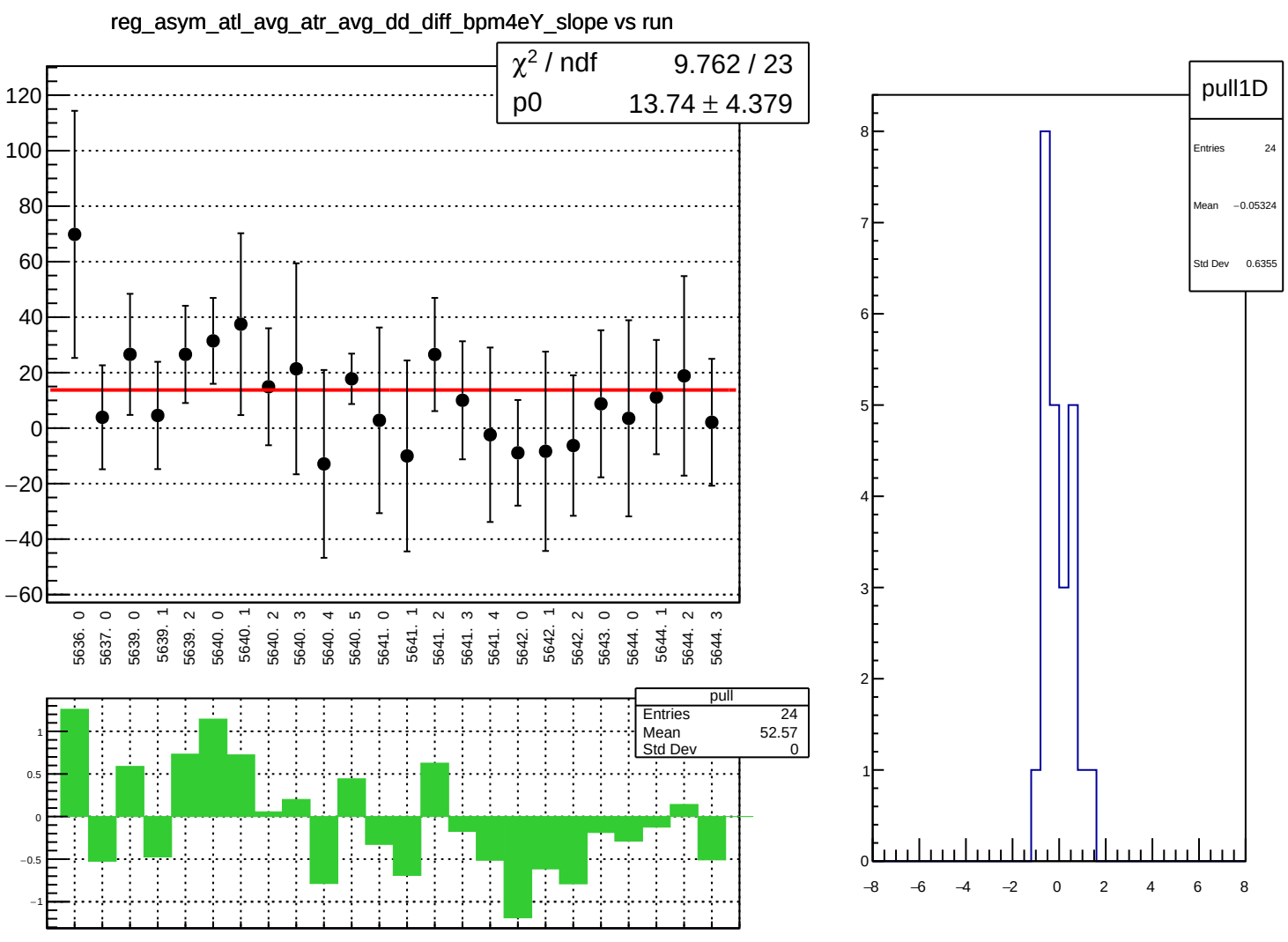

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 11.46 / 23
p0 −84.32 ± 6.205
0
−20
−40
−60
−80
−100
−120
−140
−160
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

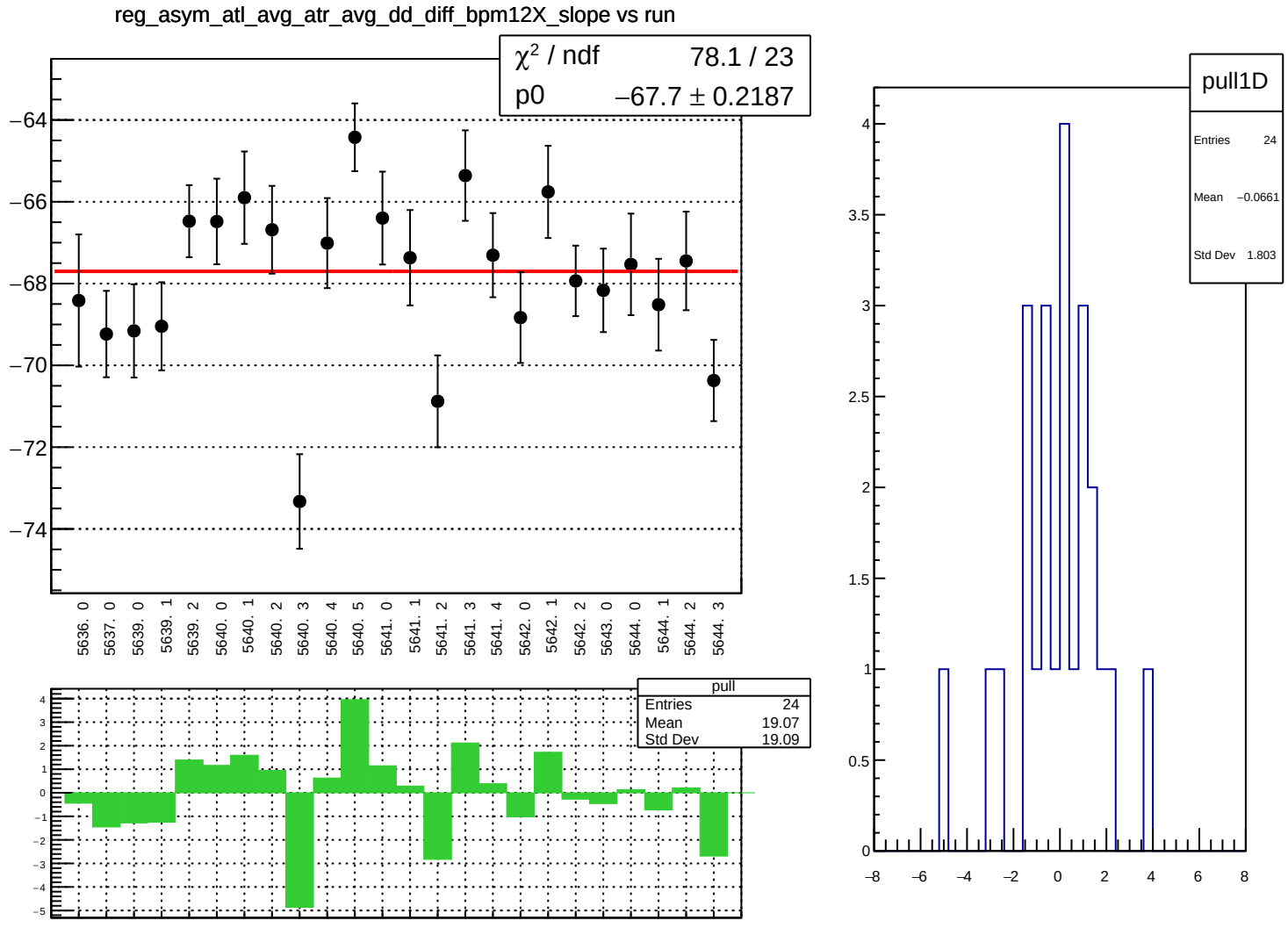

pull
Entries 24
Mean 105.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1

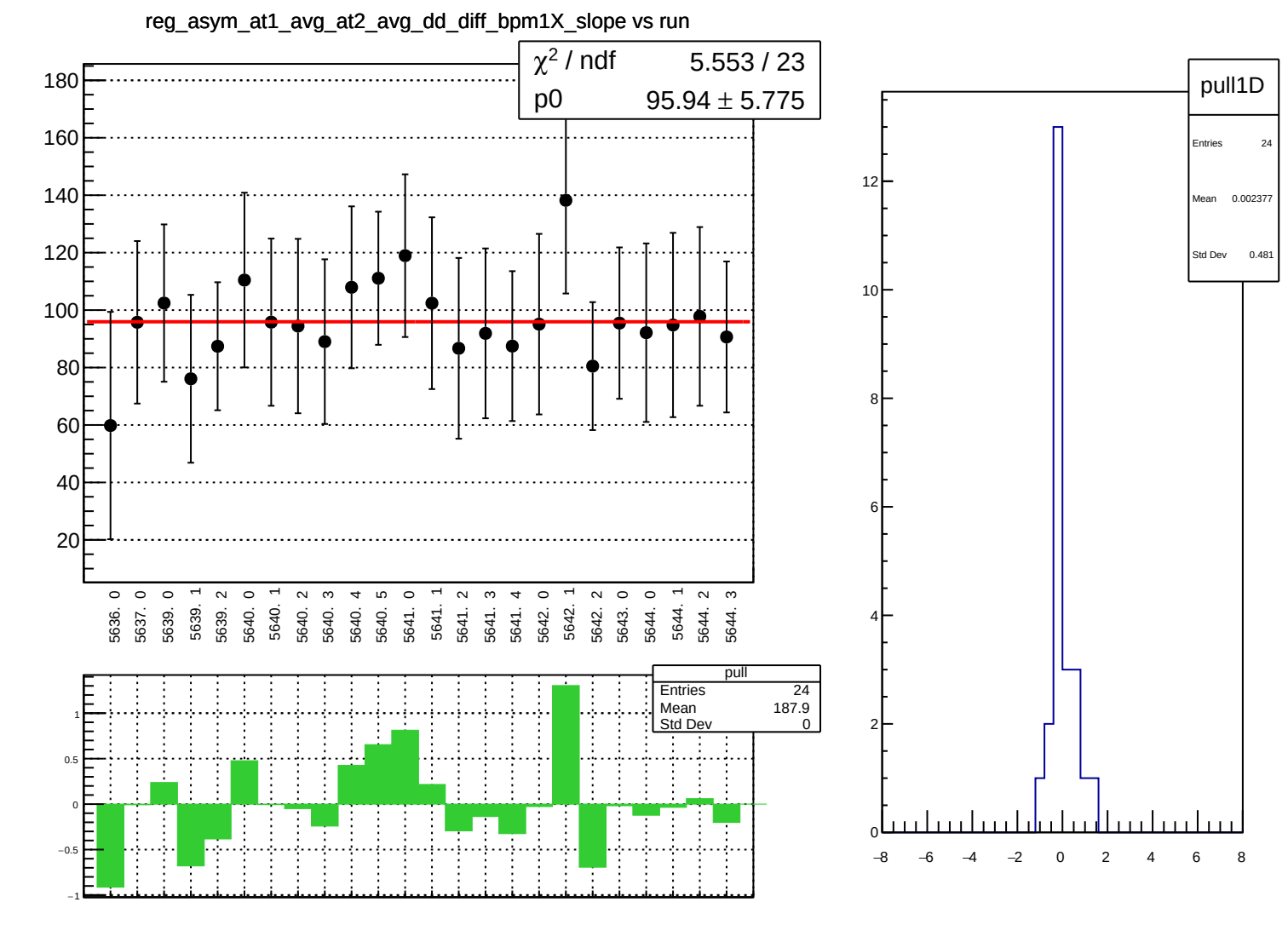

pull1D
Entries 24
Mean −0.02967
Std Dev 0.6904
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

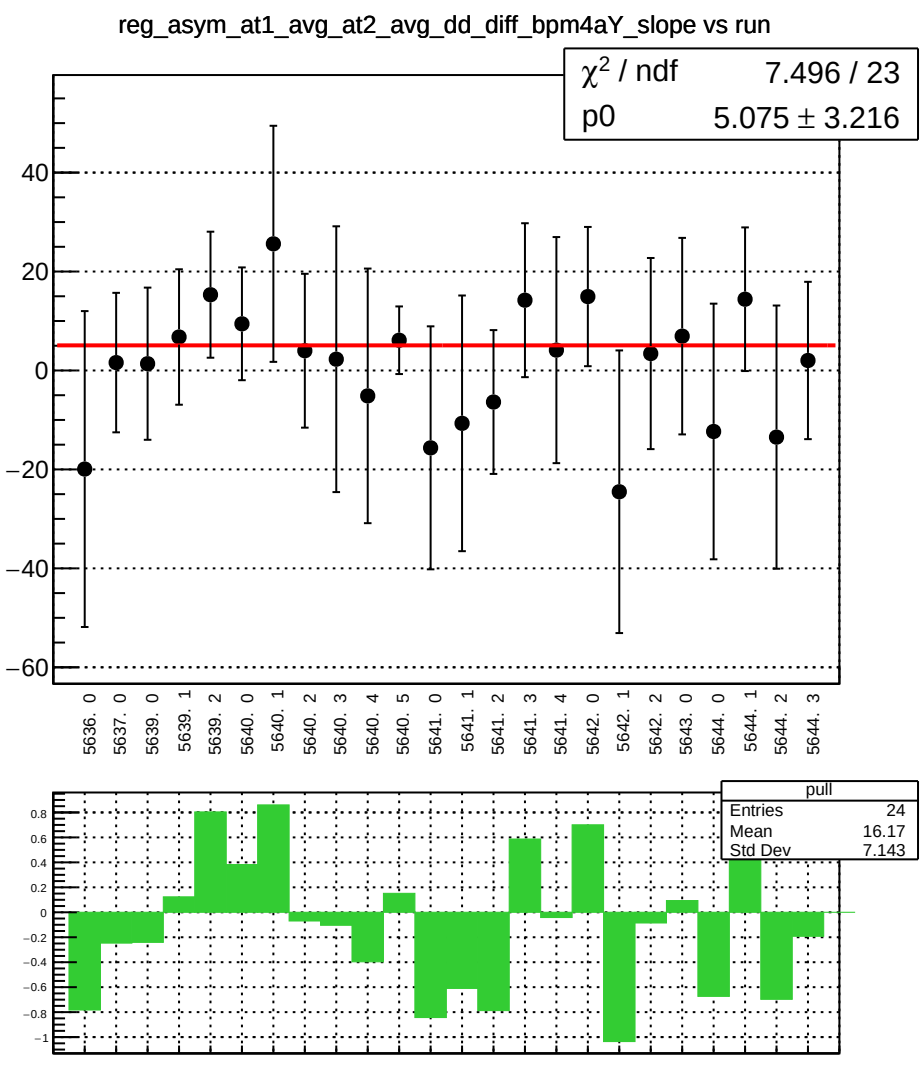

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.25 / 23
p0 8.369 ± 3.444
60
40
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 43.77
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.06726
Std Dev 0.6499
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

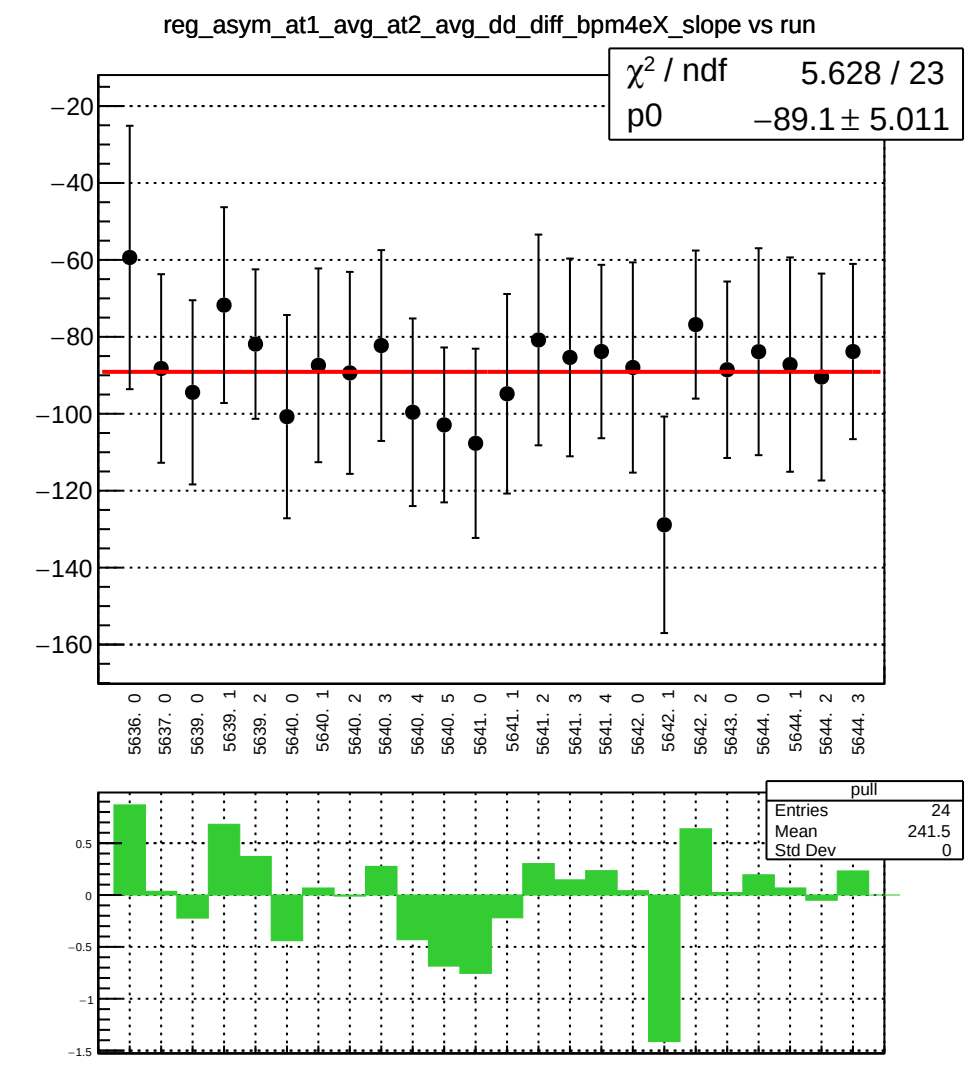

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.32 / 23
p0 75.51 ± 5.384
140
120
100
80
60
40
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 104.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.02877
Std Dev 0.6863
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

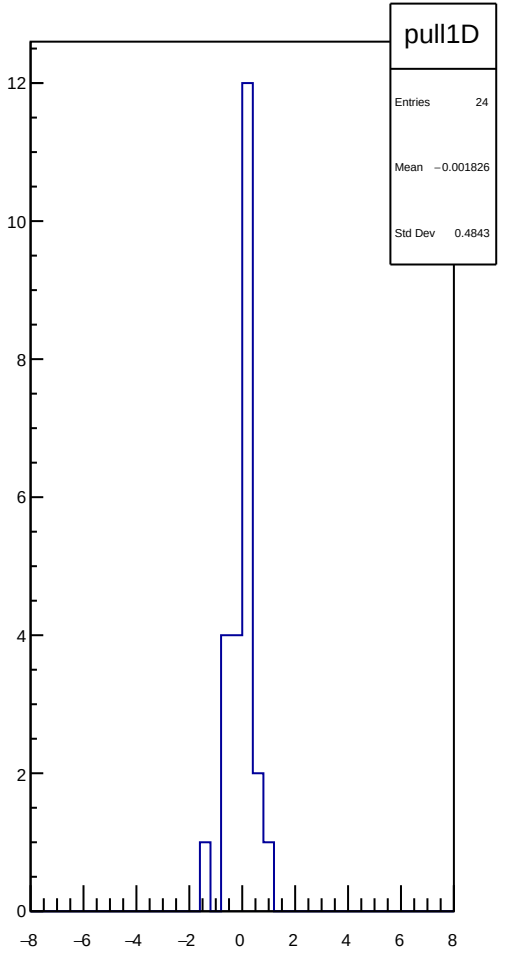

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 9.762 / 23
p0 13.74 ± 4.379
120
100
80
60
40
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 52.57
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.05324
Std Dev 0.6355
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

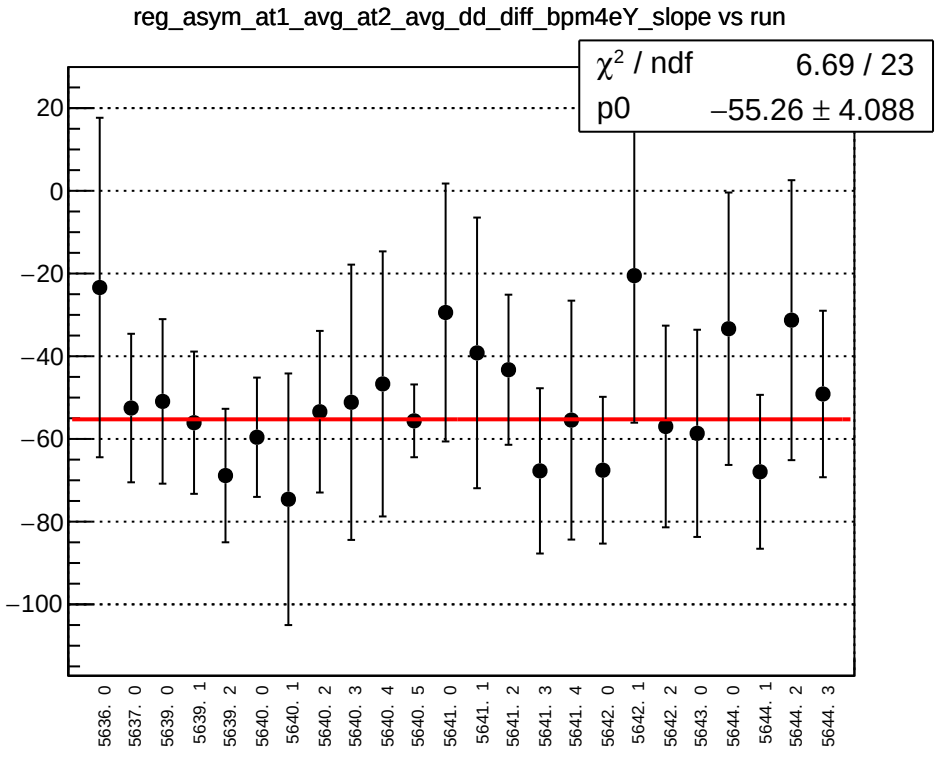

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 78.1 / 23
p0 −67.7 ± 0.2187
−64
−66
−68
−70
−72
−74
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 19.07
Std Dev 19.09
pull1D
Entries 24
Mean −0.0661
Std Dev 1.803

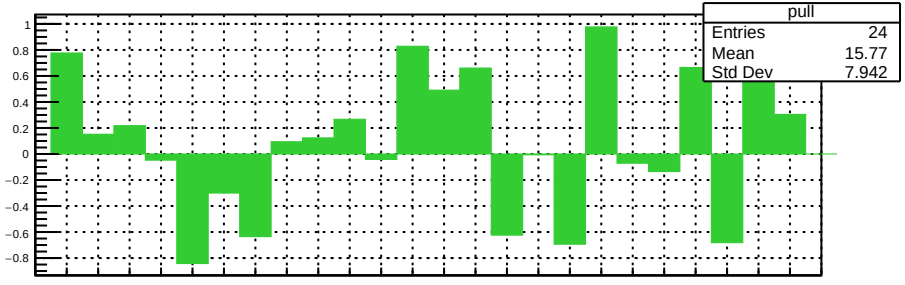

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 5.553 / 23
p0 95.94 ± 5.775
pull
Entries 24
Mean 187.9
Std Dev 0
pull1D
Entries 24
Mean 0.002377
Std Dev 0.481

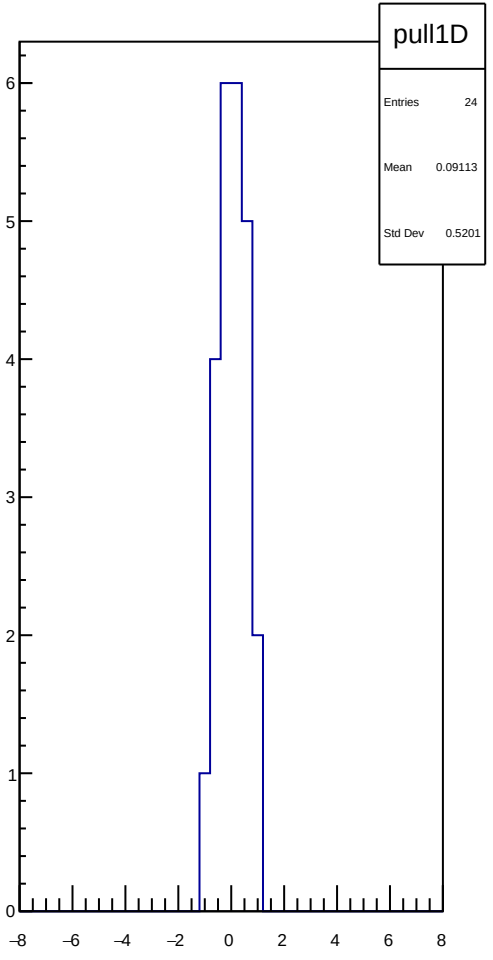

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.496 / 23
p0 5.075 ± 3.216
40
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 16.17
Std Dev 7.143
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 24
Mean −0.1026
Std Dev 0.5494
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

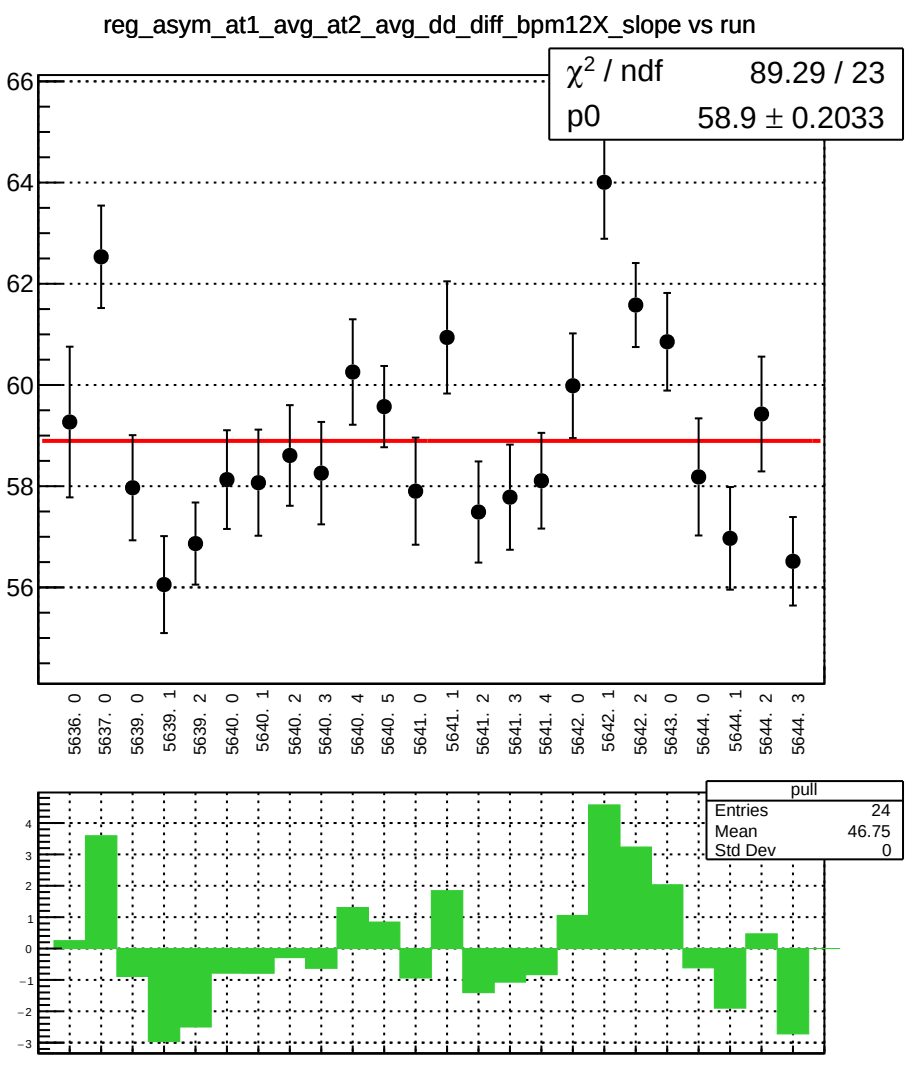

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.628 / 23
p0 −89.1 ± 5.011
−20
−40
−60
−80
−100
−120
−140
−160
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 241.5
Std Dev 0
0.5
0
−0.5
−1
−1.5

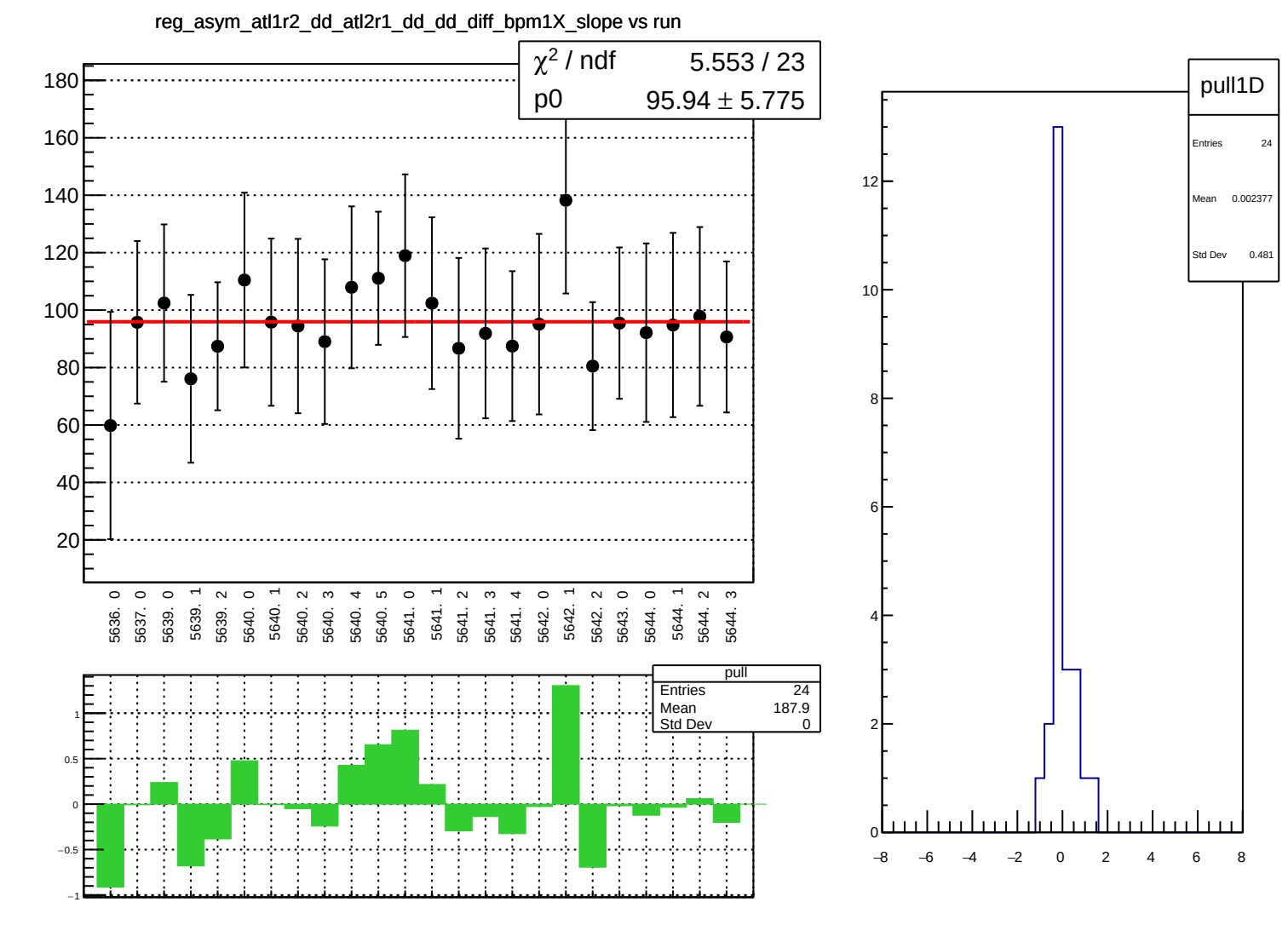

pull1D
Entries 24
Mean −0.001826
Std Dev 0.4843
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

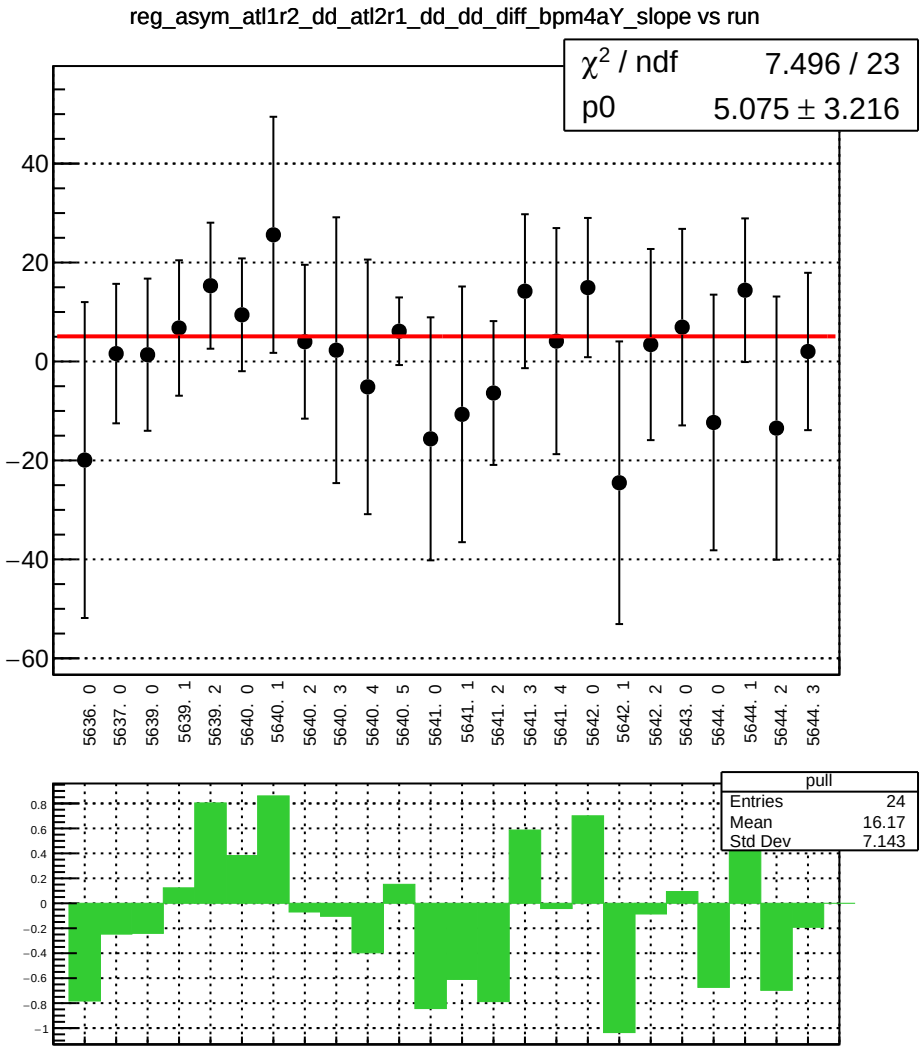

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.69 / 23
p0 −55.26 ± 4.088
20
0
−20
−40
−60
−80
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

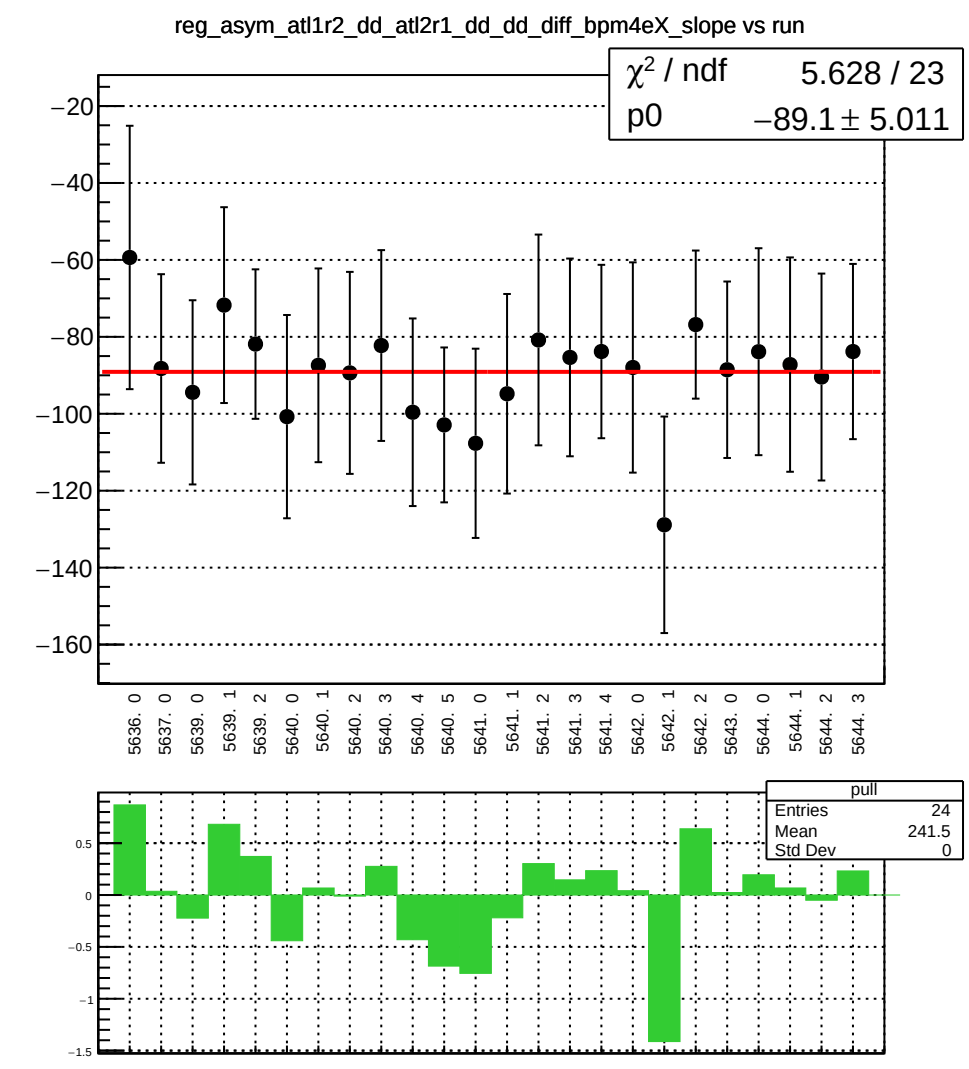

pull
Entries 24
Mean 15.77
Std Dev 7.942
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

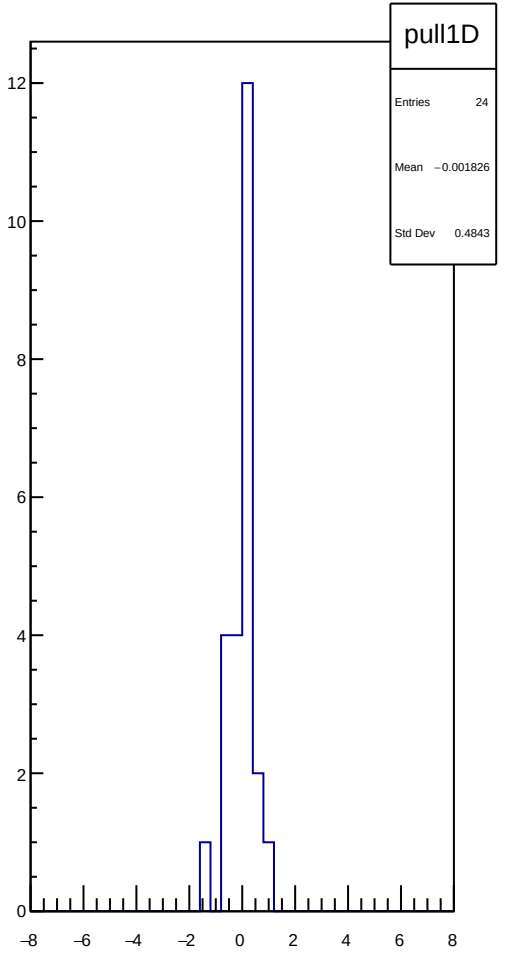

pull1D
Entries 24
Mean 0.09113
Std Dev 0.5201
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

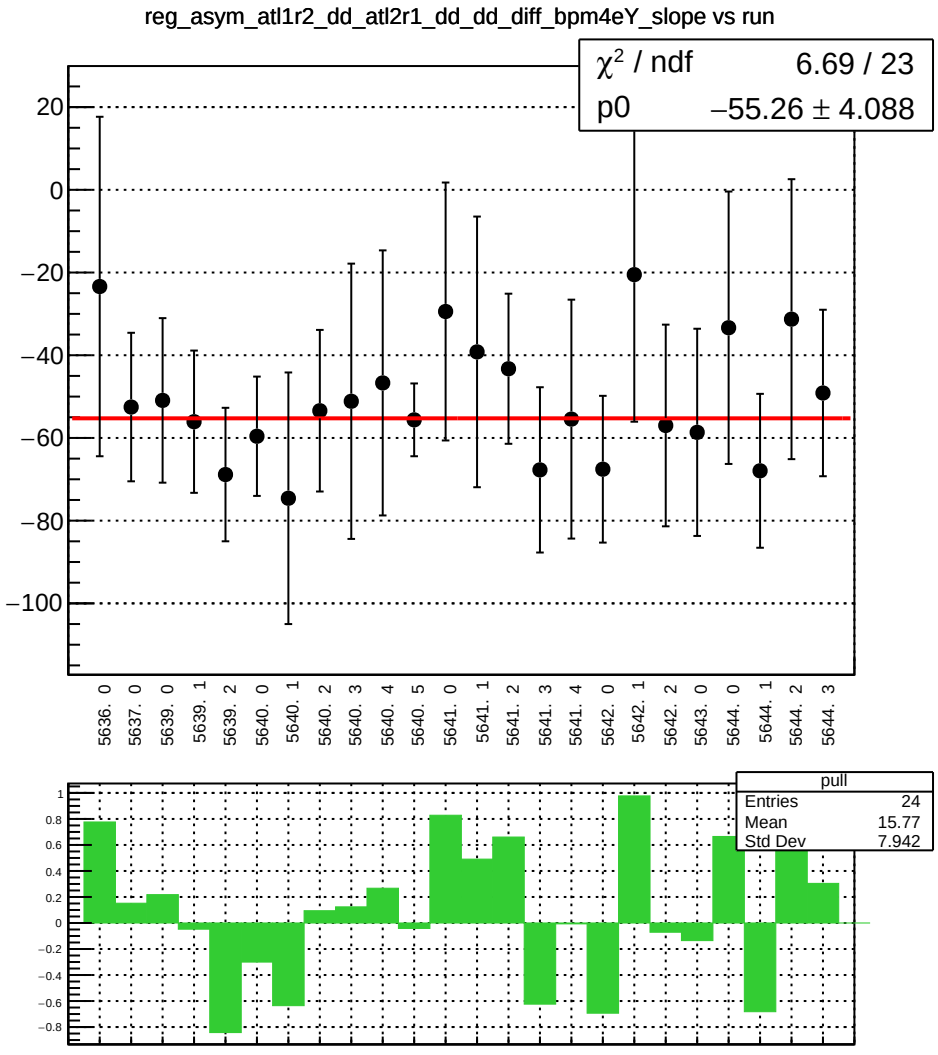

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 89.29 / 23
p0 58.9 ± 0.2033
66
64
62
60
58
56
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 46.75
Std Dev 0
pull1D
Entries 24
Mean 0.03648
Std Dev 1.928

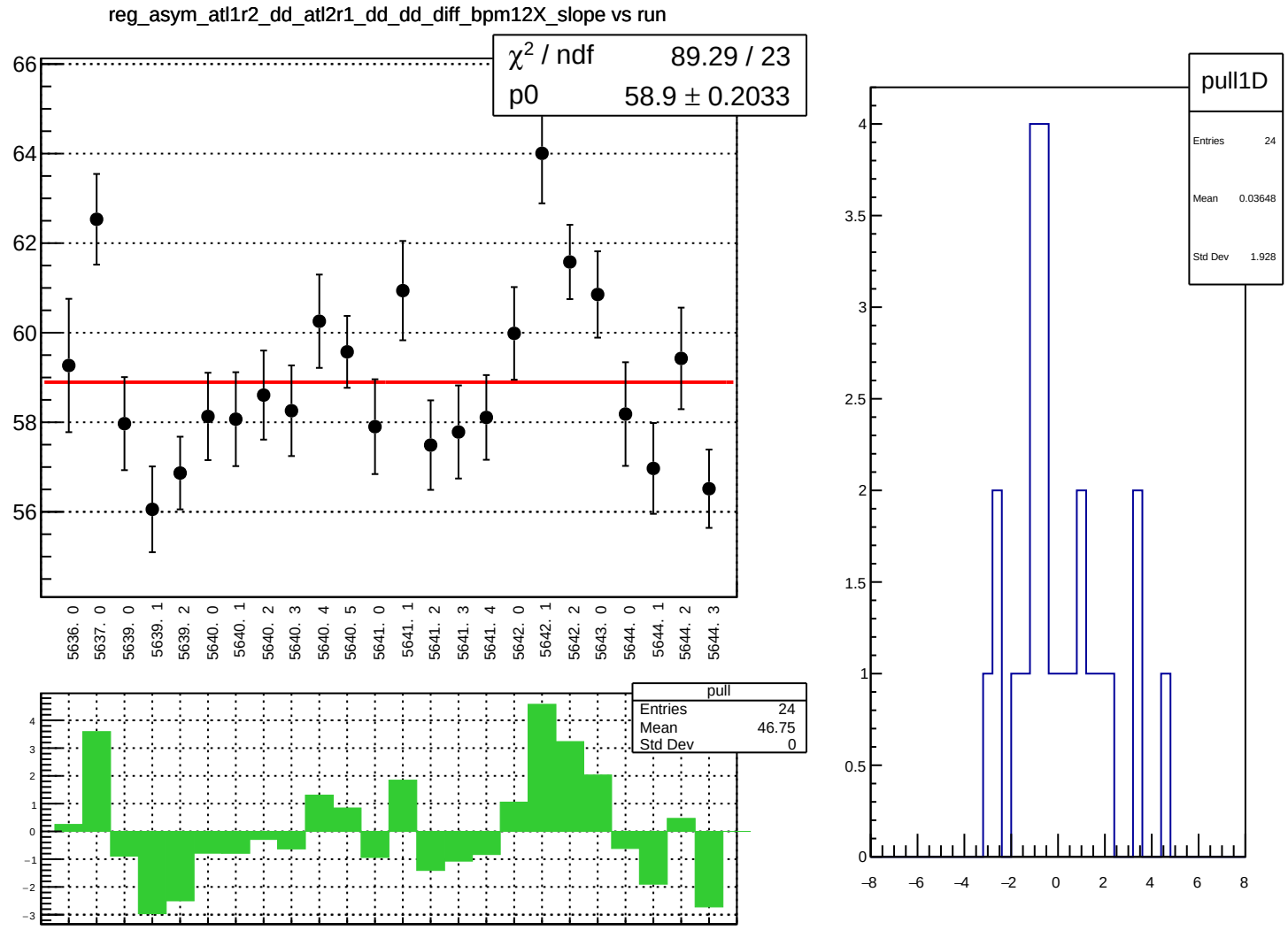

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 5.553 / 23
p0 95.94 ± 5.775
180
160
140
120
100
80
60
40
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 187.9
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.002377
Std Dev 0.481
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

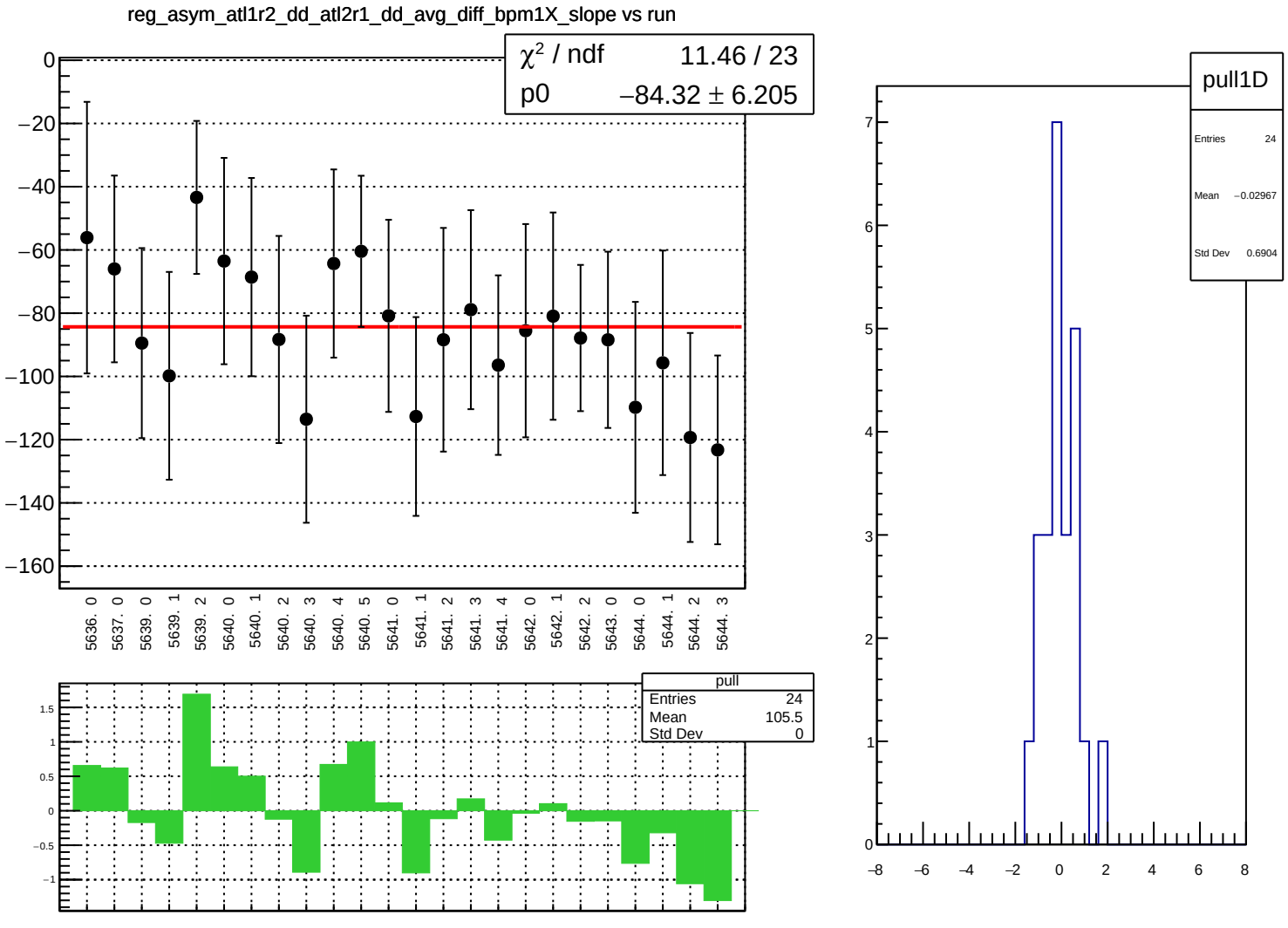

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.496 / 23
p0 5.075 ± 3.216
40
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 16.17
Std Dev 7.143
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 24
Mean −0.1026
Std Dev 0.5494
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

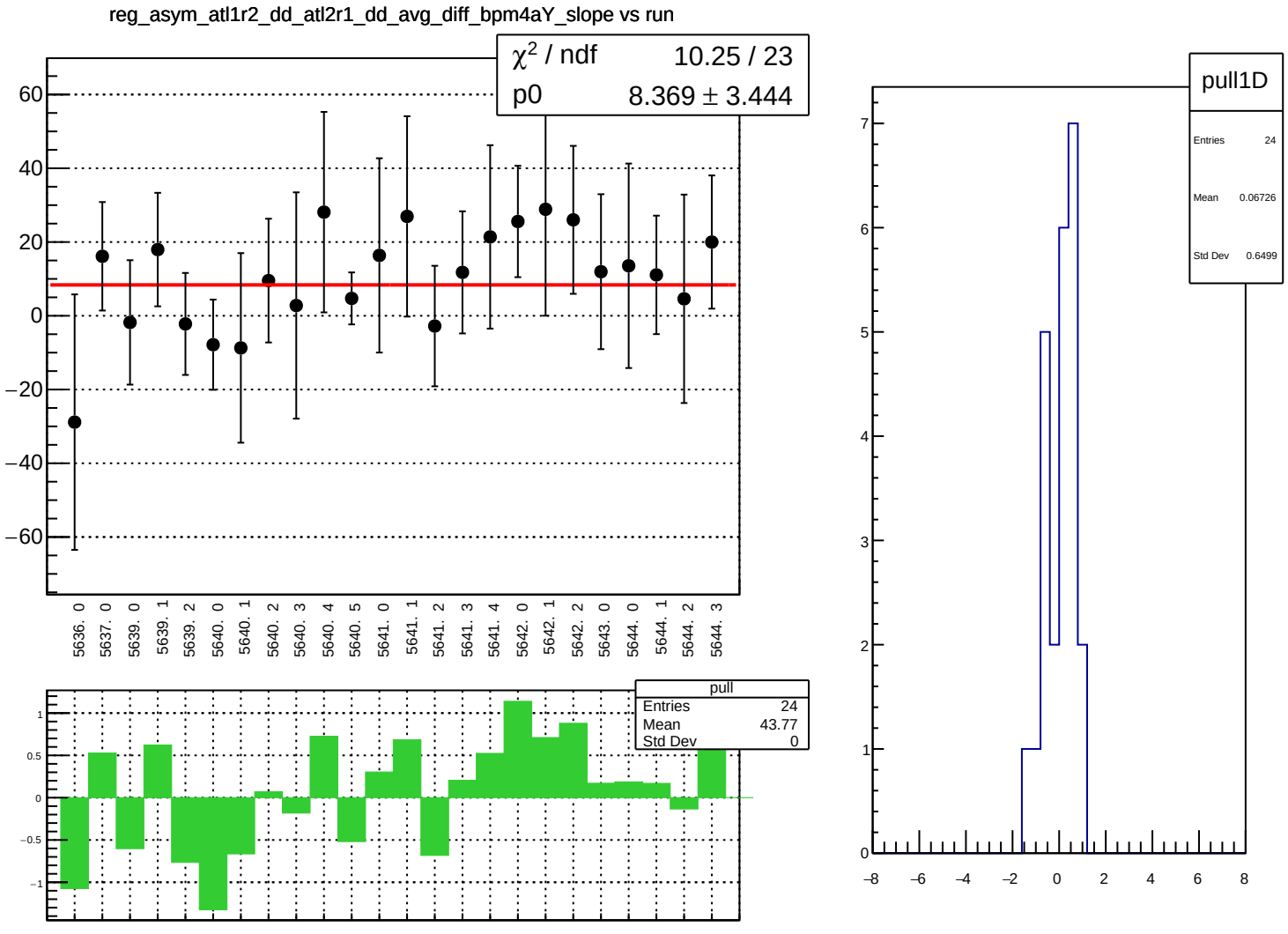

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.628 / 23
p0 −89.1 ± 5.011
−20
−40
−60
−80
−100
−120
−140
−160
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 241.5
Std Dev 0
0.5
0
−0.5
−1
−1.5

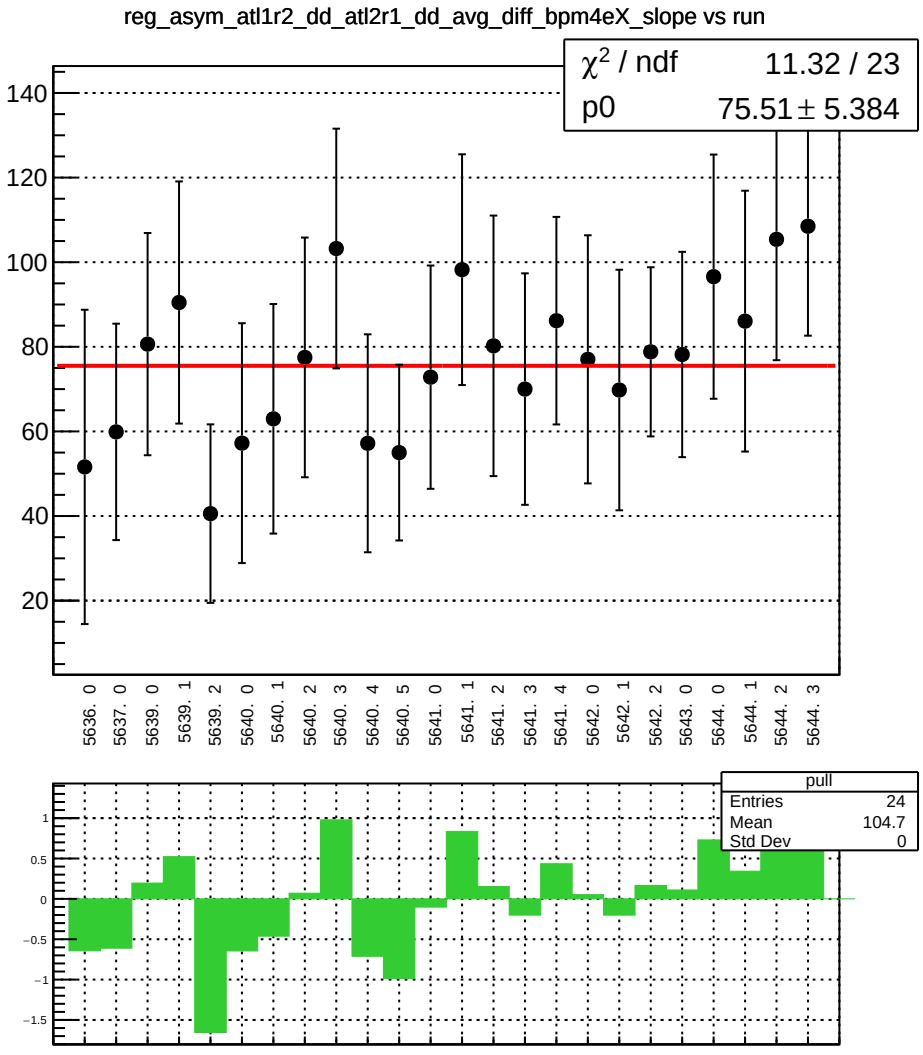

pull1D
Entries 24
Mean −0.001826
Std Dev 0.4843
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

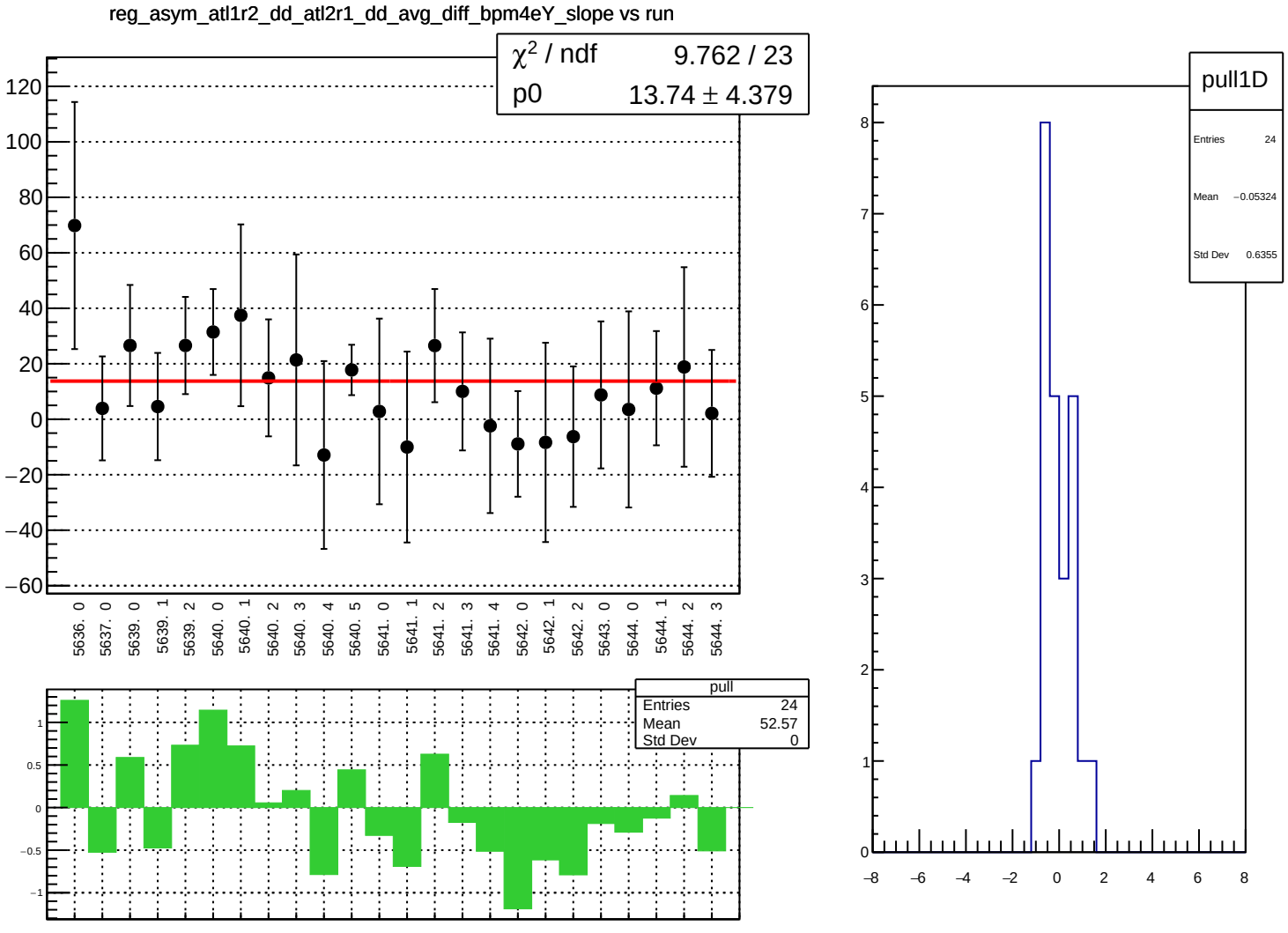

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.69 / 23
p0 −55.26 ± 4.088
20
0
−20
−40
−60
−80
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 15.77
Std Dev 7.942
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean 0.09113
Std Dev 0.5201
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

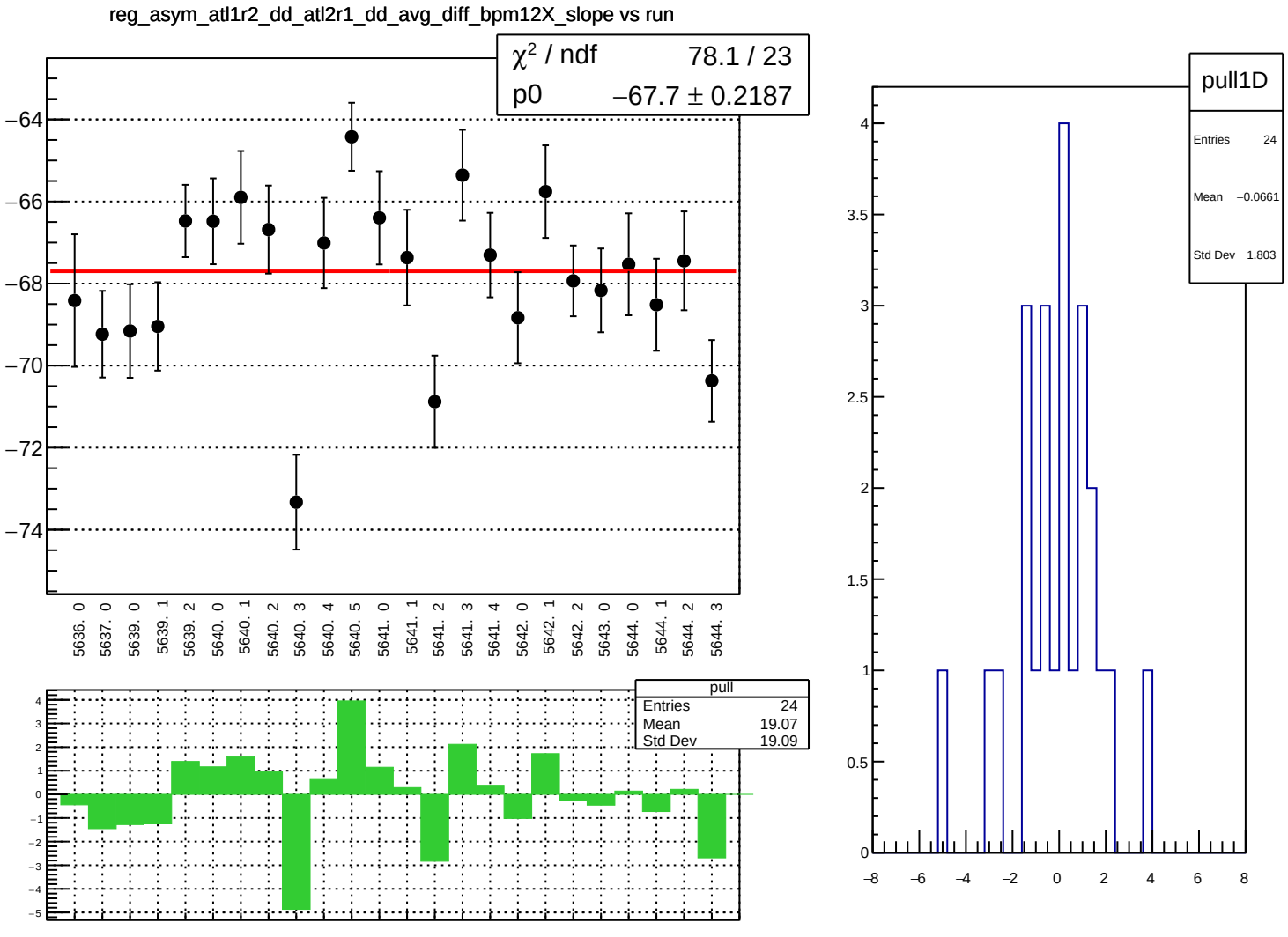

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 89.29 / 23
p0 58.9 ± 0.2033
66
64
62
60
58
56
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 46.75
Std Dev 0
pull1D
Entries 24
Mean 0.03648
Std Dev 1.928

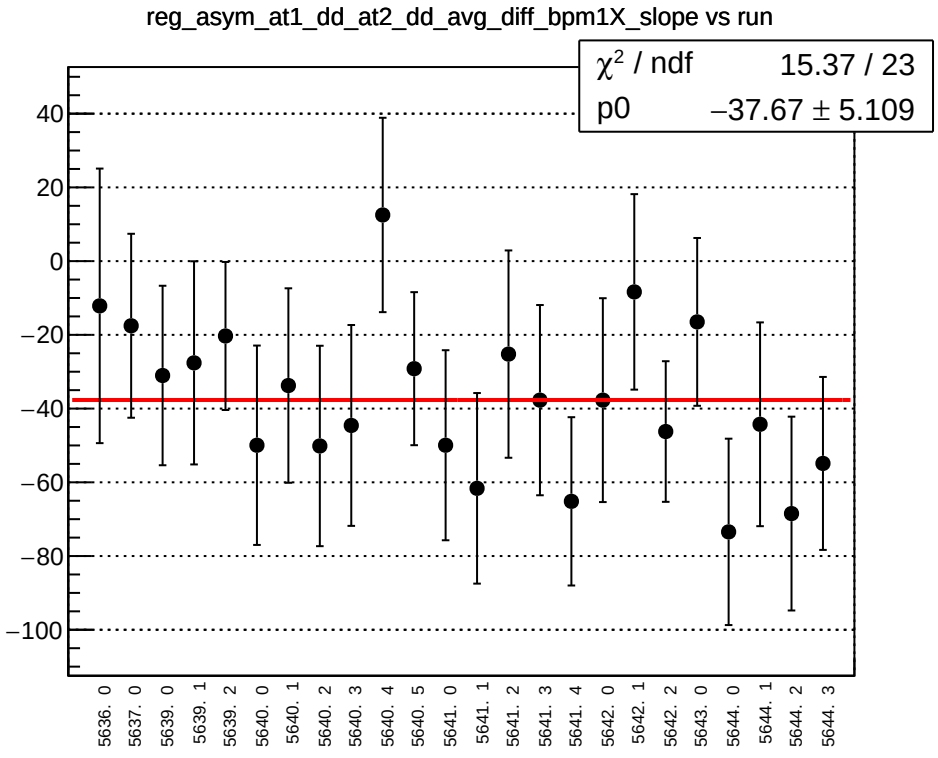

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 11.46 / 23
p0 −84.32 ± 6.205
0
−20
−40
−60
−80
−100
−120
−140
−160
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 105.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.02967
Std Dev 0.6904
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

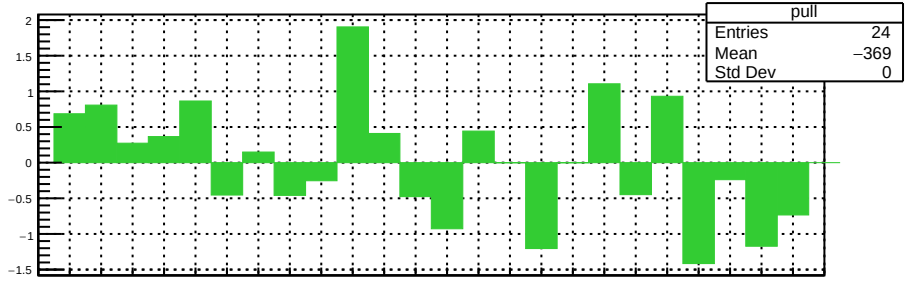

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.25 / 23
p0 8.369 ± 3.444
60
40
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 43.77
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.06726
Std Dev 0.6499
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

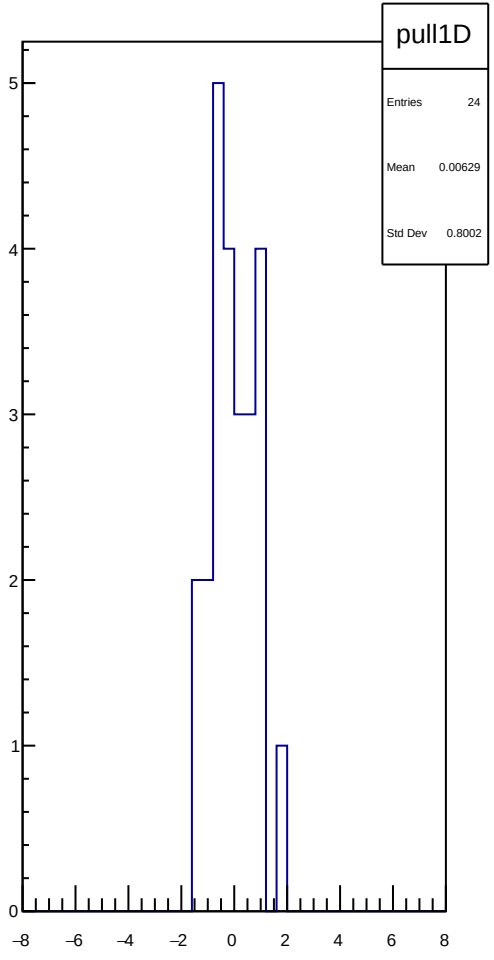

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.32 / 23
p0 75.51 ± 5.384
140
120
100
80
60
40
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 104.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.02877
Std Dev 0.6863
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

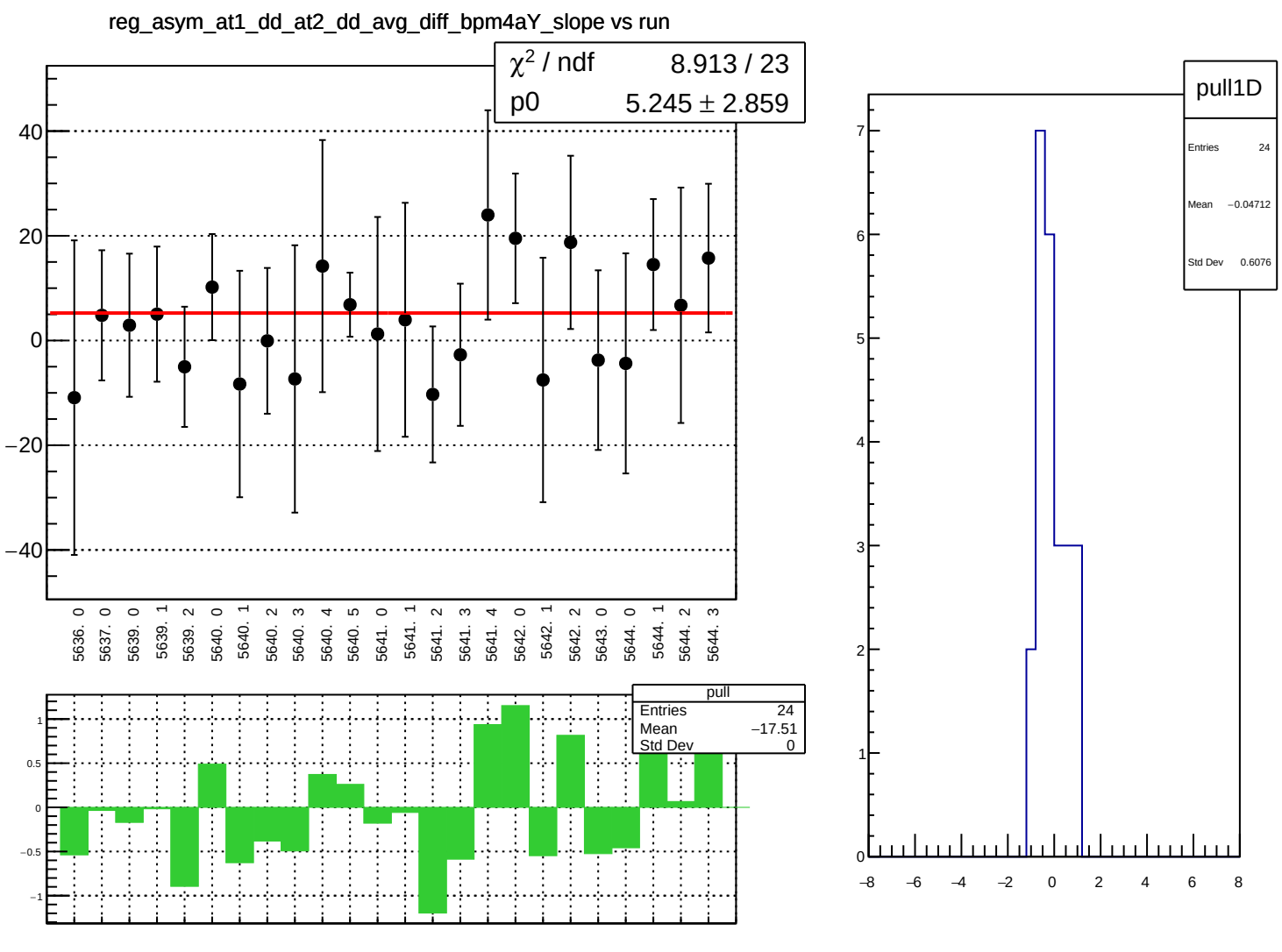

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.762 / 23
p0 13.74 ± 4.379
120
100
80
60
40
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 52.57
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.05324
Std Dev 0.6355
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

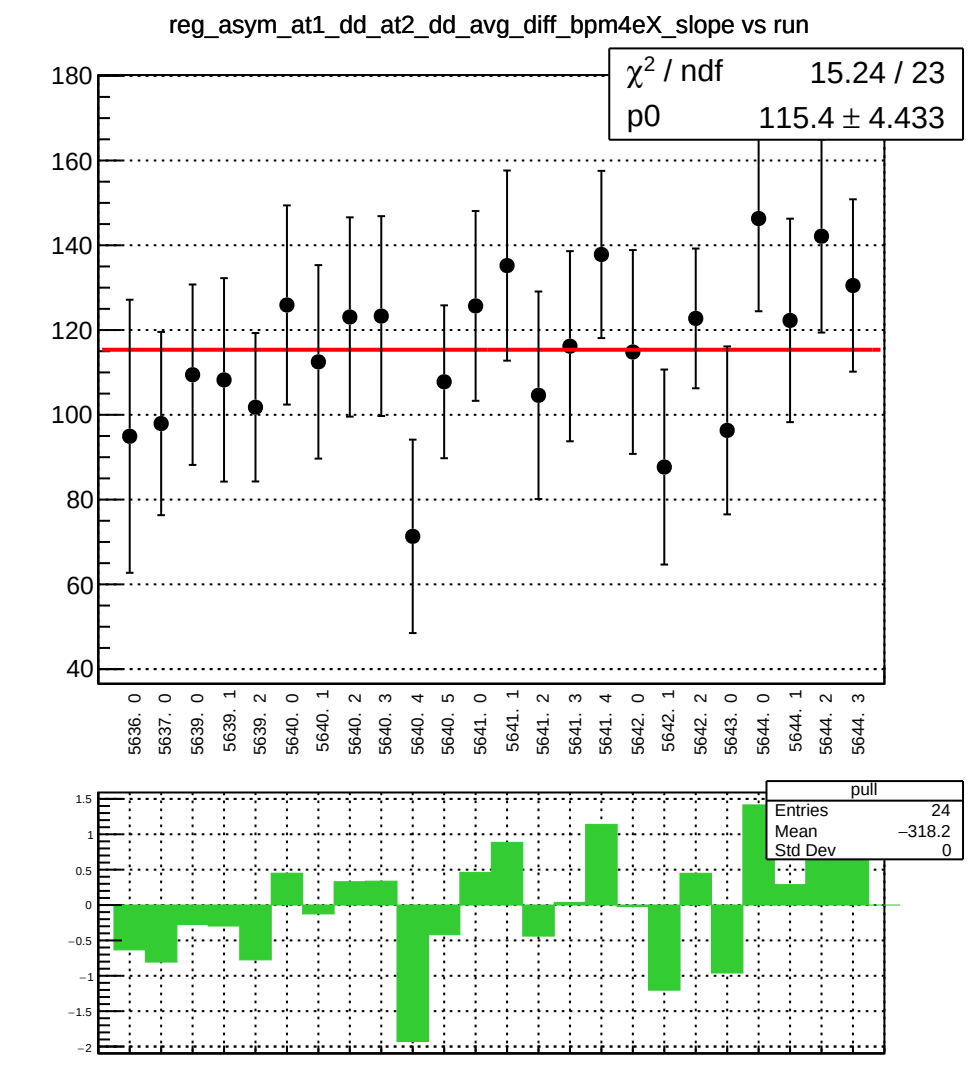

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 78.1 / 23
p0 −67.7 ± 0.2187
−64
−66
−68
−70
−72
−74
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 19.07
Std Dev 19.09
pull1D
Entries 24
Mean −0.0661
Std Dev 1.803

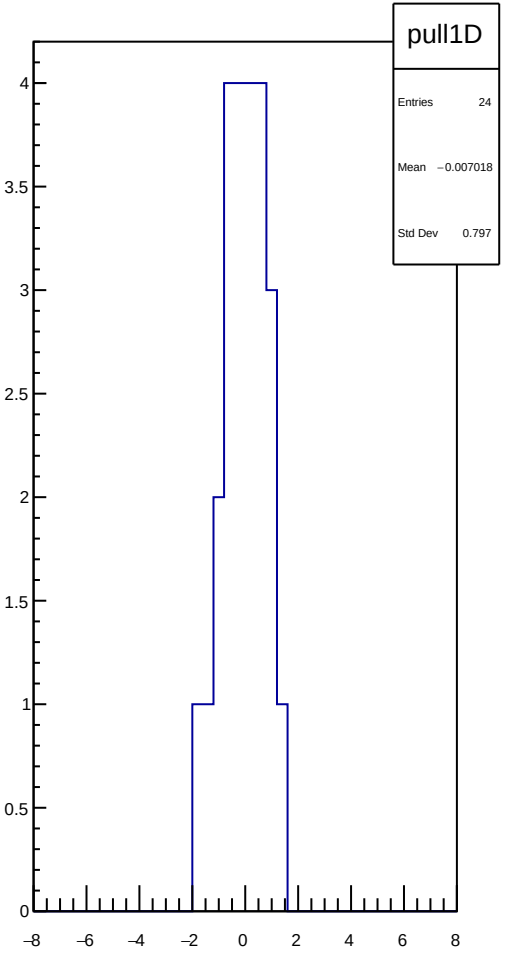

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 15.37 / 23
p0 −37.67 ± 5.109
40
20
0
−20
−40
−60
−80
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

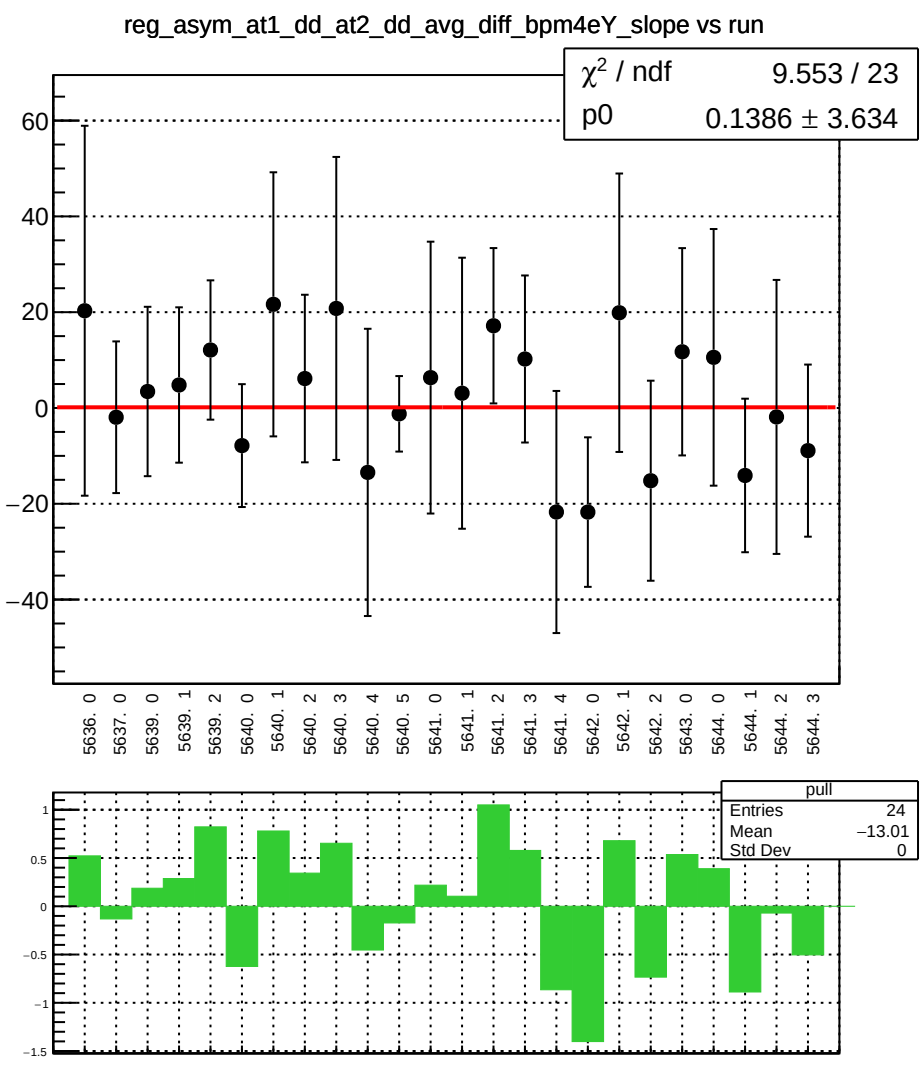

pull
Entries 24
Mean −369
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

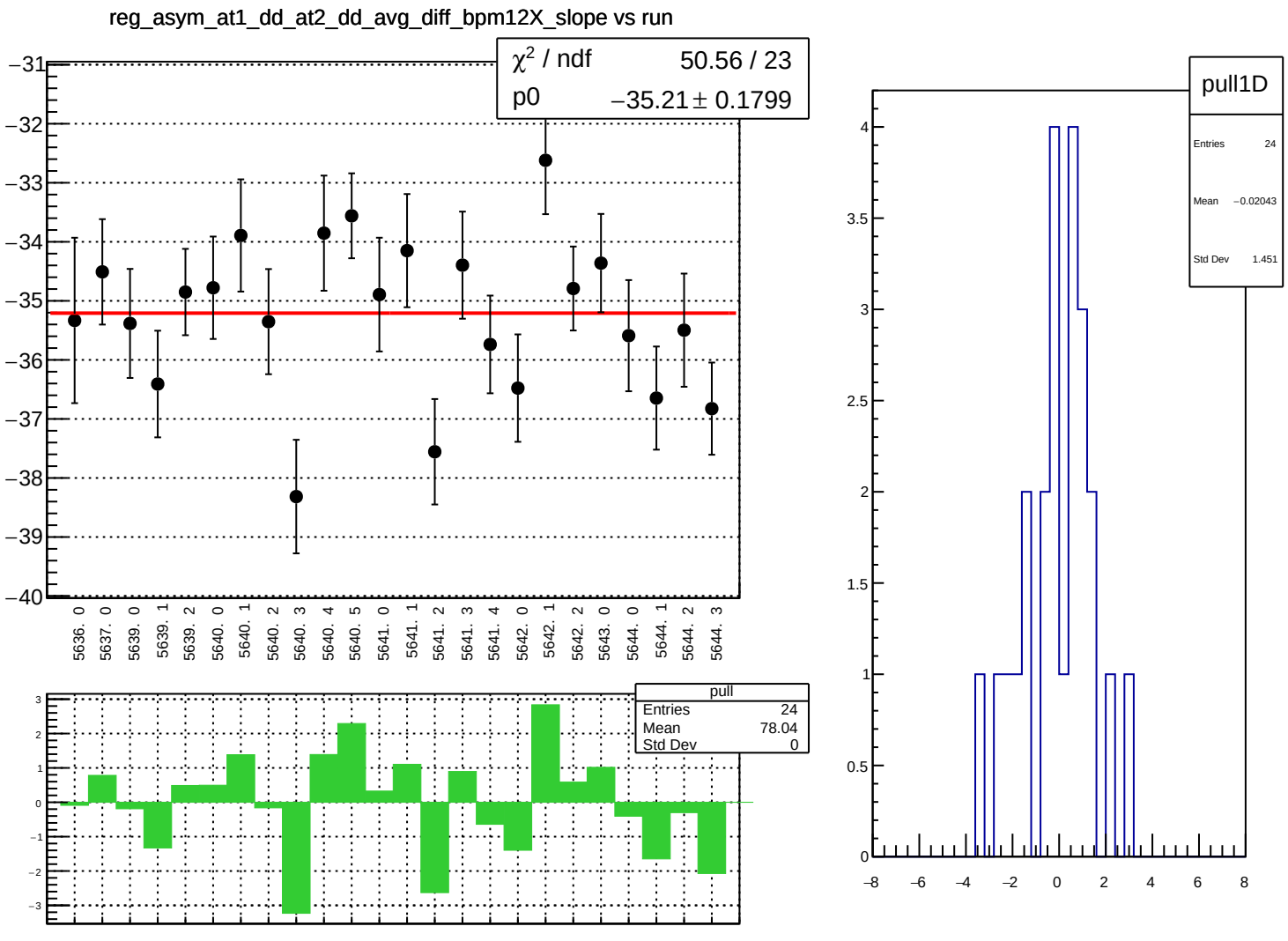

pull1D
Entries 24
Mean 0.00629
Std Dev 0.8002
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

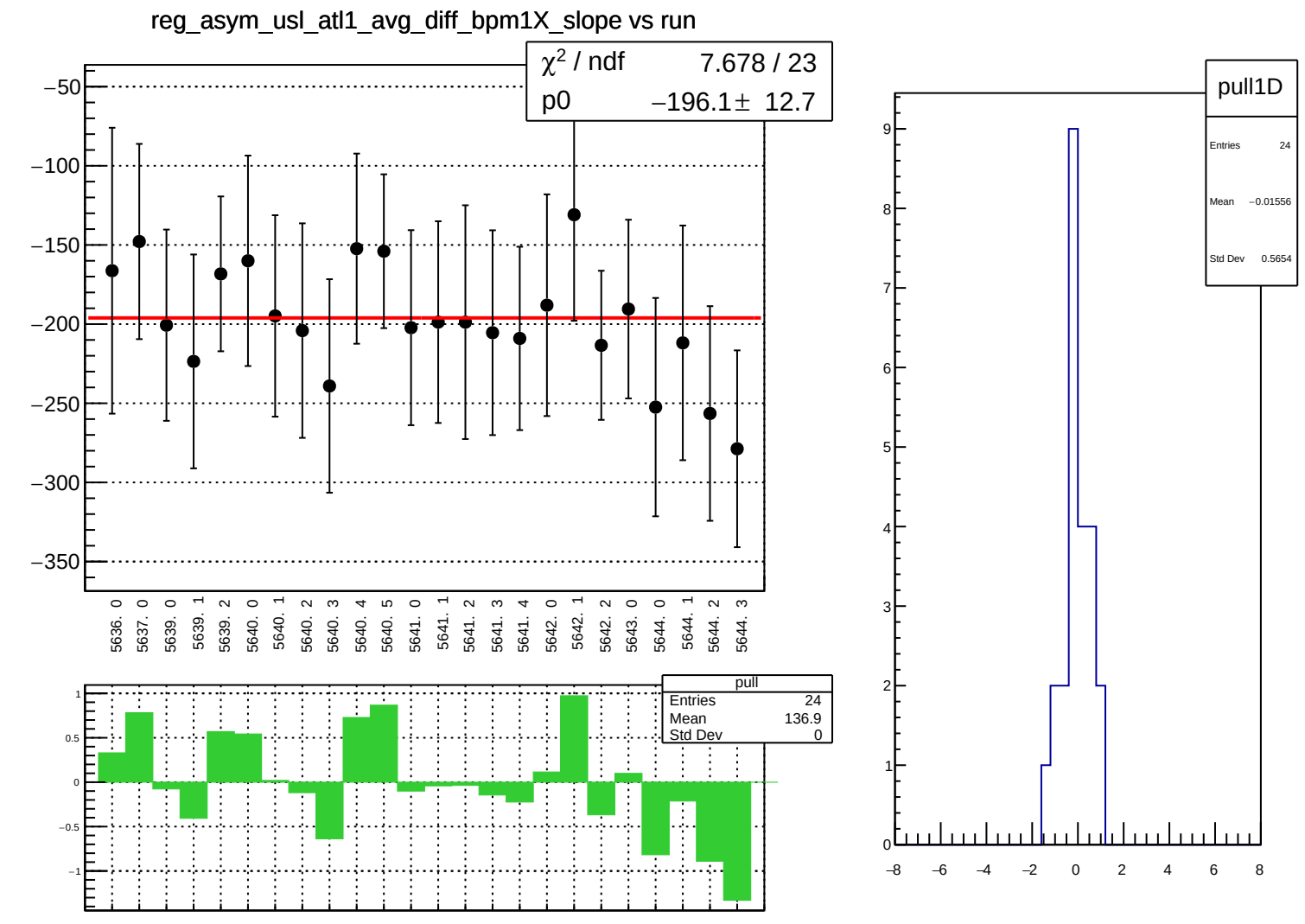

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.913 / 23
p0 5.245 ± 2.859
40
20
0
−20
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −17.51
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.04712
Std Dev 0.6076
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

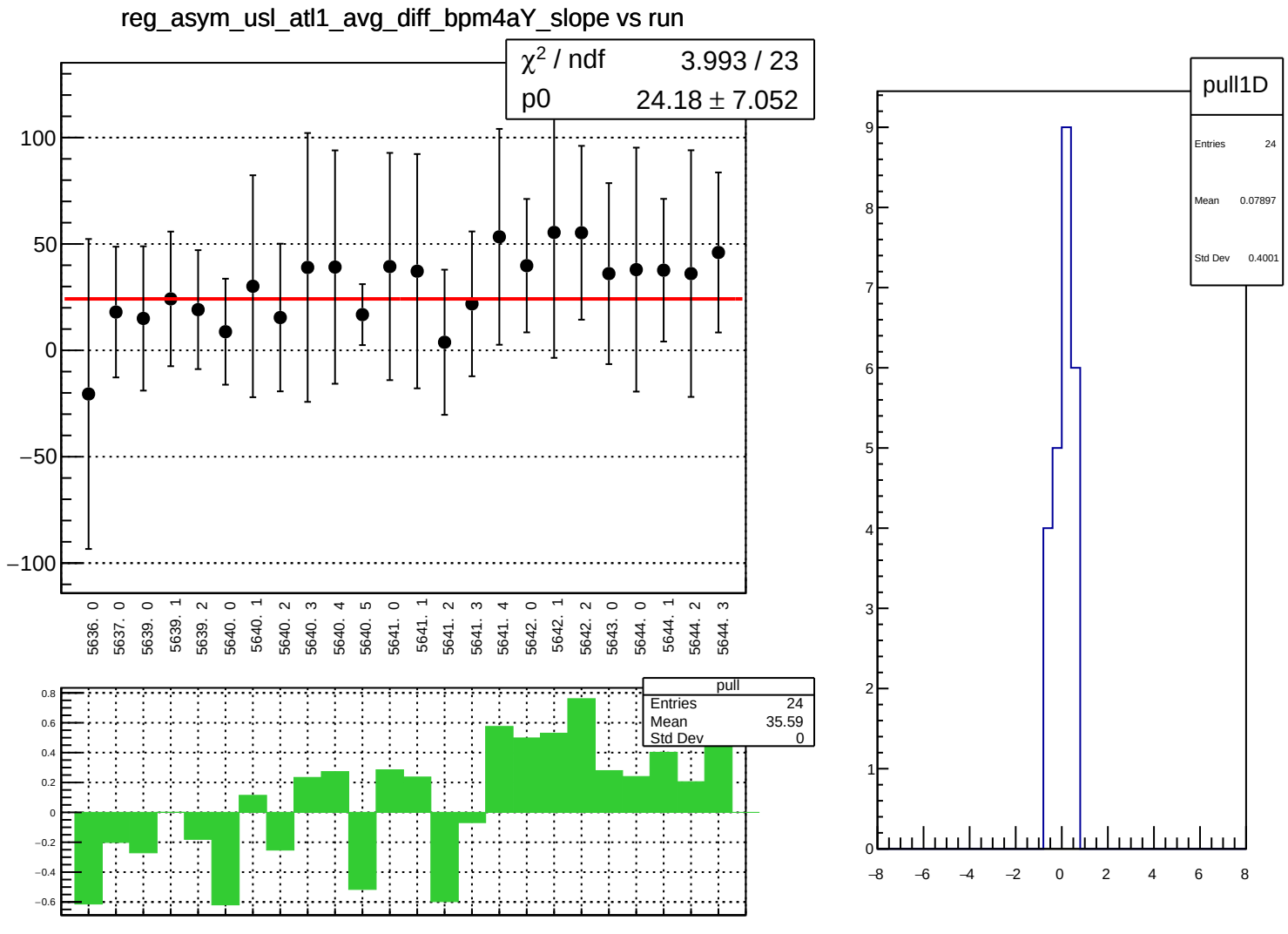

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 15.24 / 23
p0 115.4 ± 4.433
180
160
140
120
100
80
60
40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −318.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

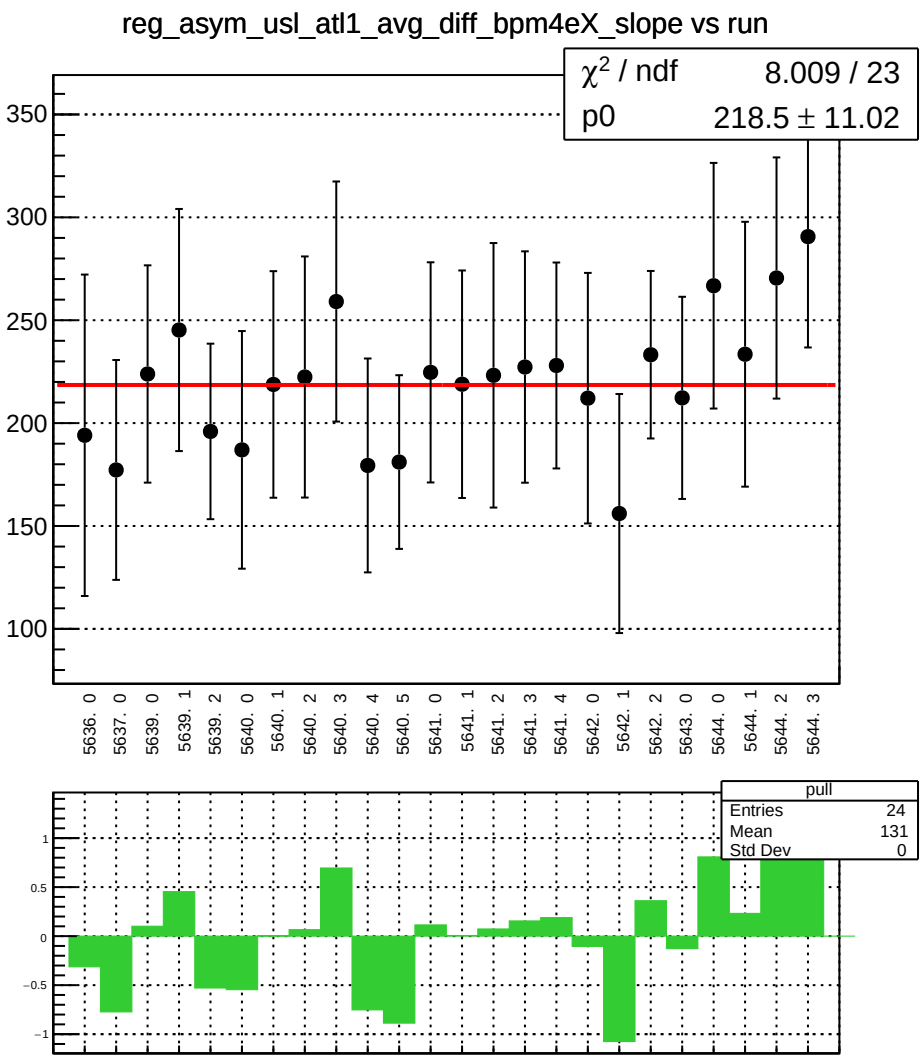

pull1D
Entries 24
Mean −0.007018
Std Dev 0.797
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

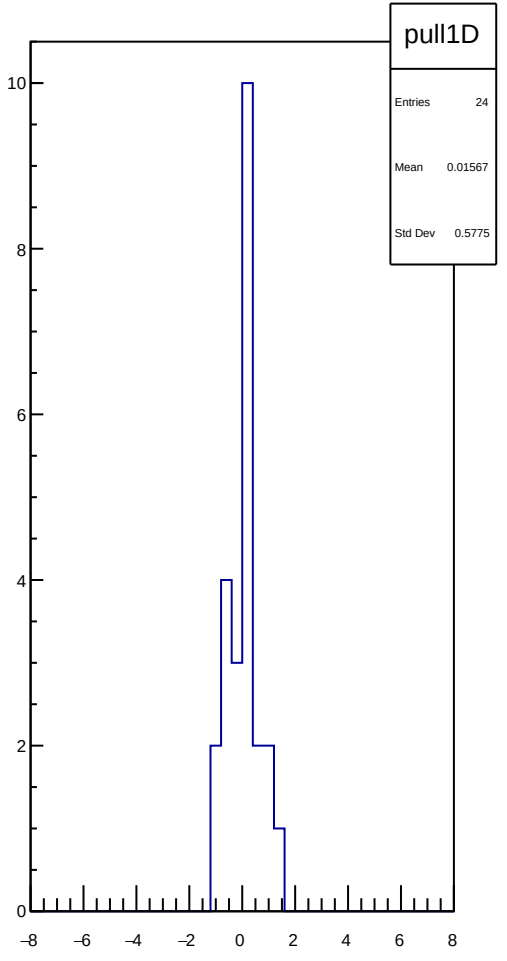

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.553 / 23
p0 0.1386 ± 3.634
60
40
20
0
−20
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −13.01
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.05453
Std Dev 0.6285
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

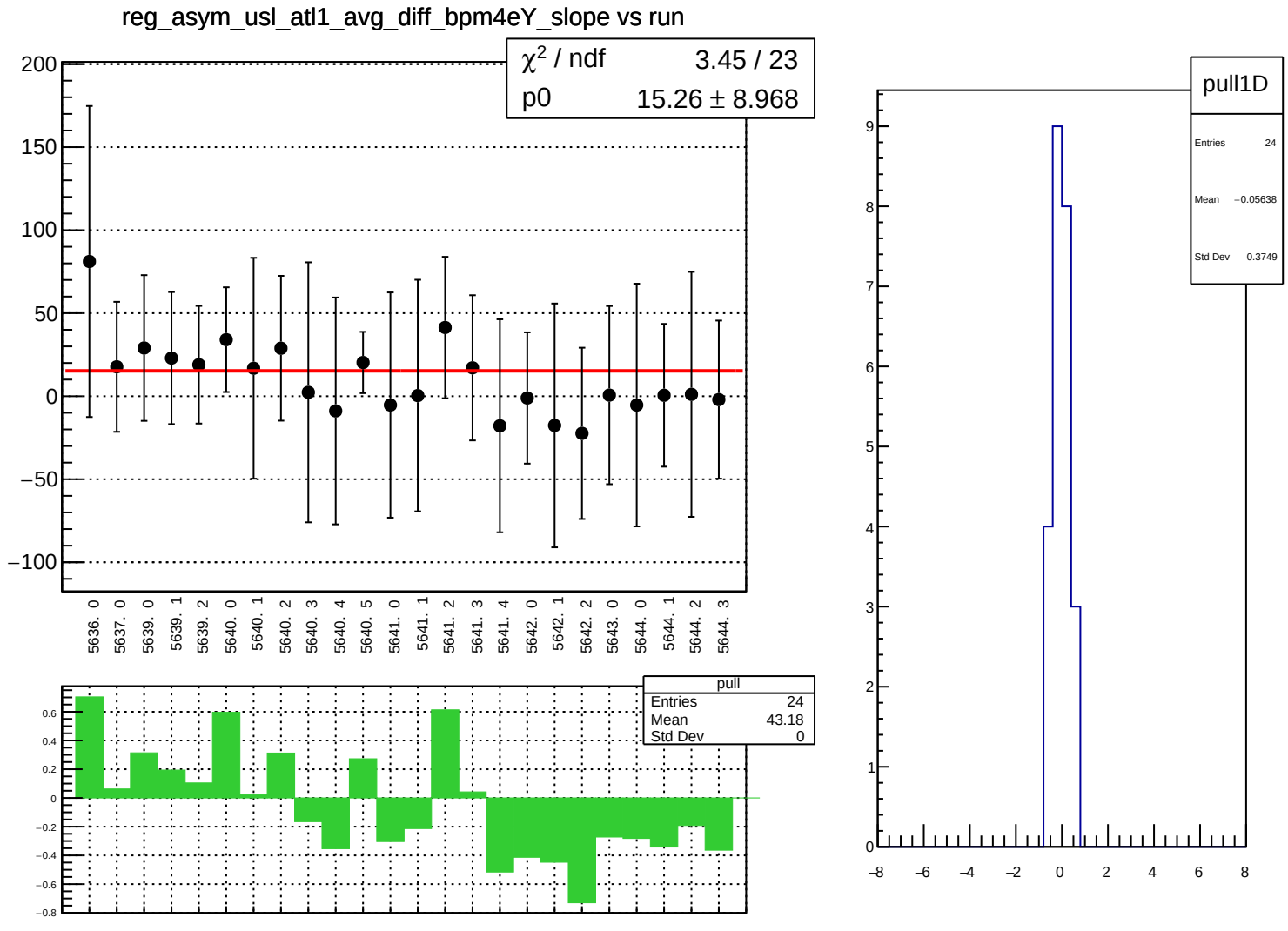

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 50.56 / 23
p0 −35.21 ± 0.1799
−31
−32
−33
−34
−35
−36
−37
−38
−39
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 78.04
Std Dev 0
pull1D
Entries 24
Mean −0.02043
Std Dev 1.451

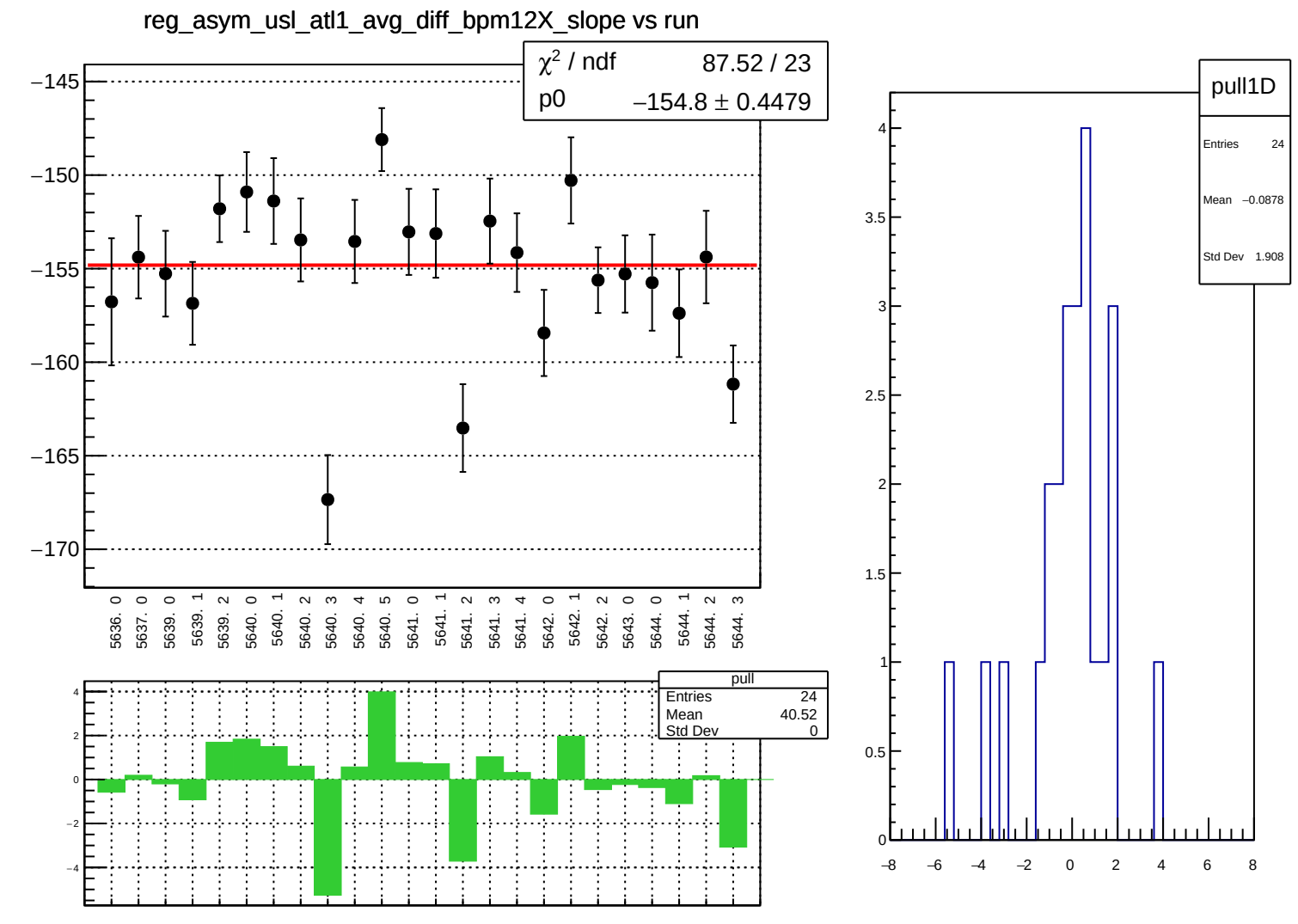

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 7.678 / 23
p0 −196.1± 12.7
−50
−100
−150
−200
−250
−300
−350
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 136.9
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.01556
Std Dev 0.5654
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

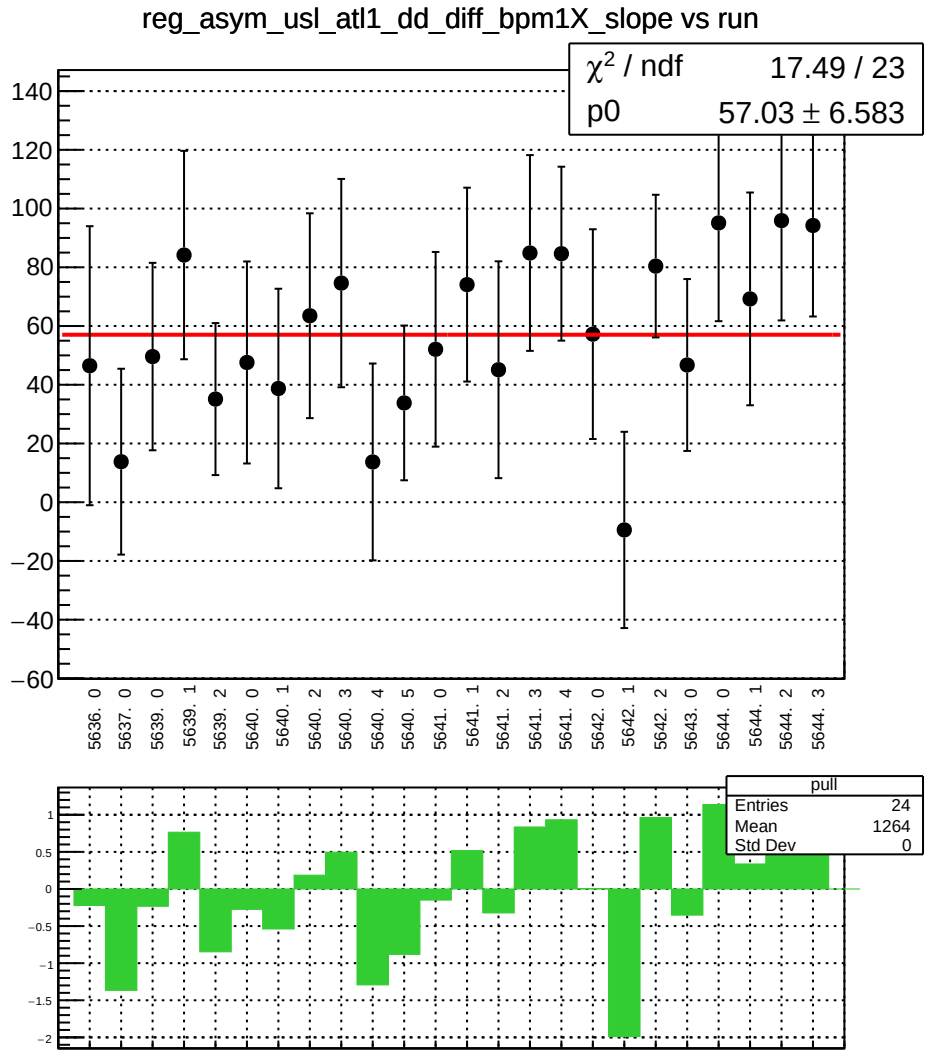

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.993 / 23
p0 24.18 ± 7.052
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 35.59
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 24
Mean 0.07897
Std Dev 0.4001
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

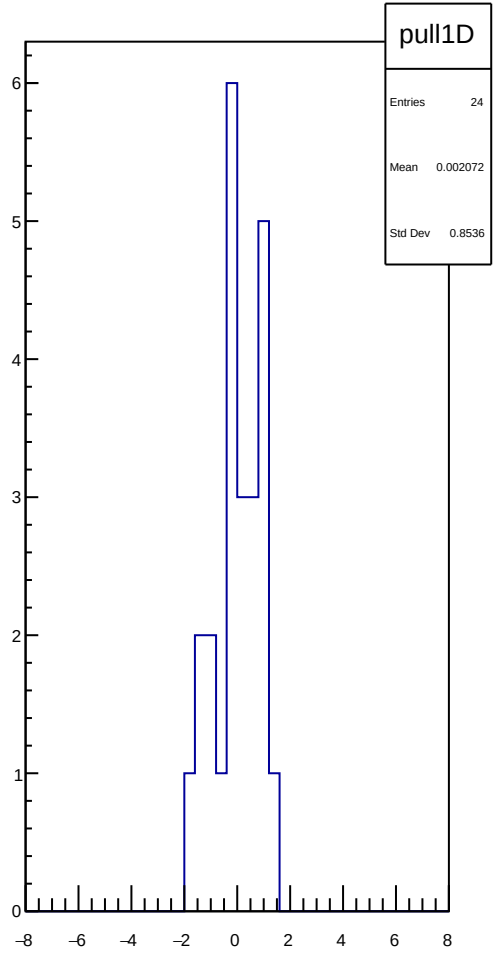

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.009 / 23
p0 218.5 ± 11.02
350
300
250
200
150
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 131
Std Dev 0
1
0.5
0
−0.5
−1

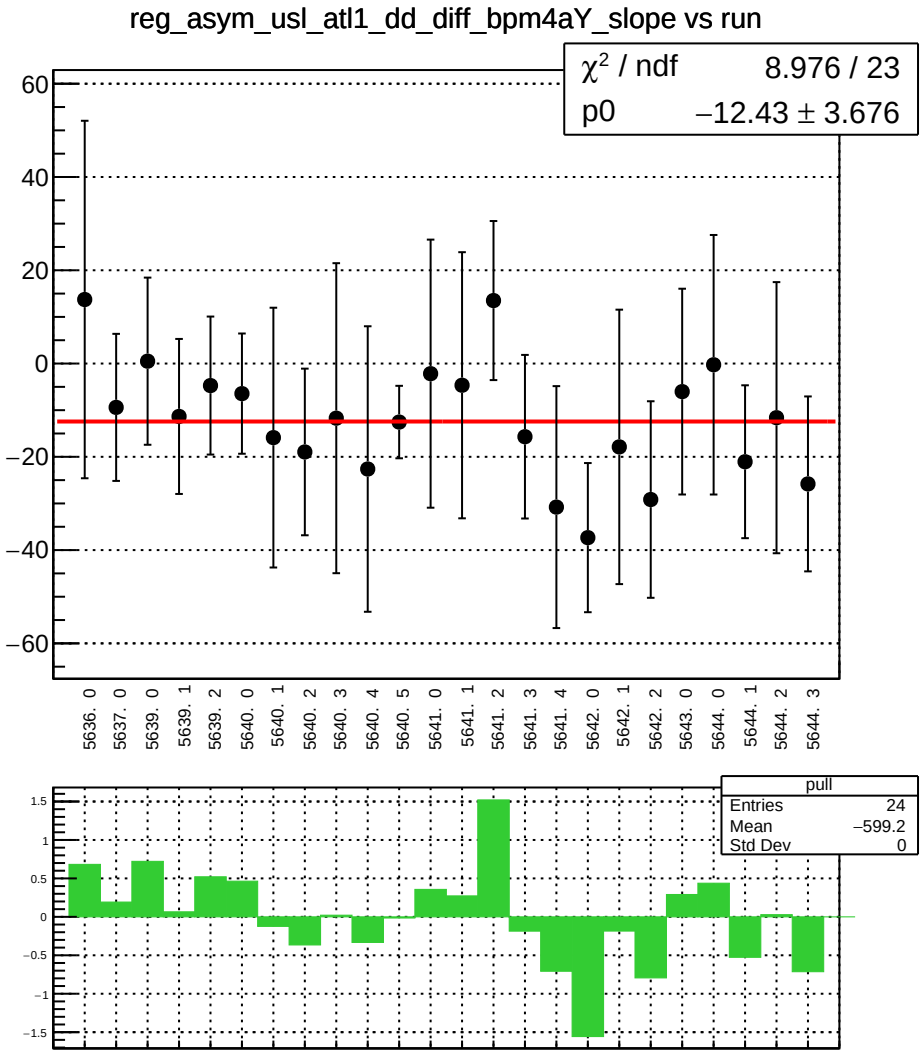

pull1D
Entries 24
Mean 0.01567
Std Dev 0.5775
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

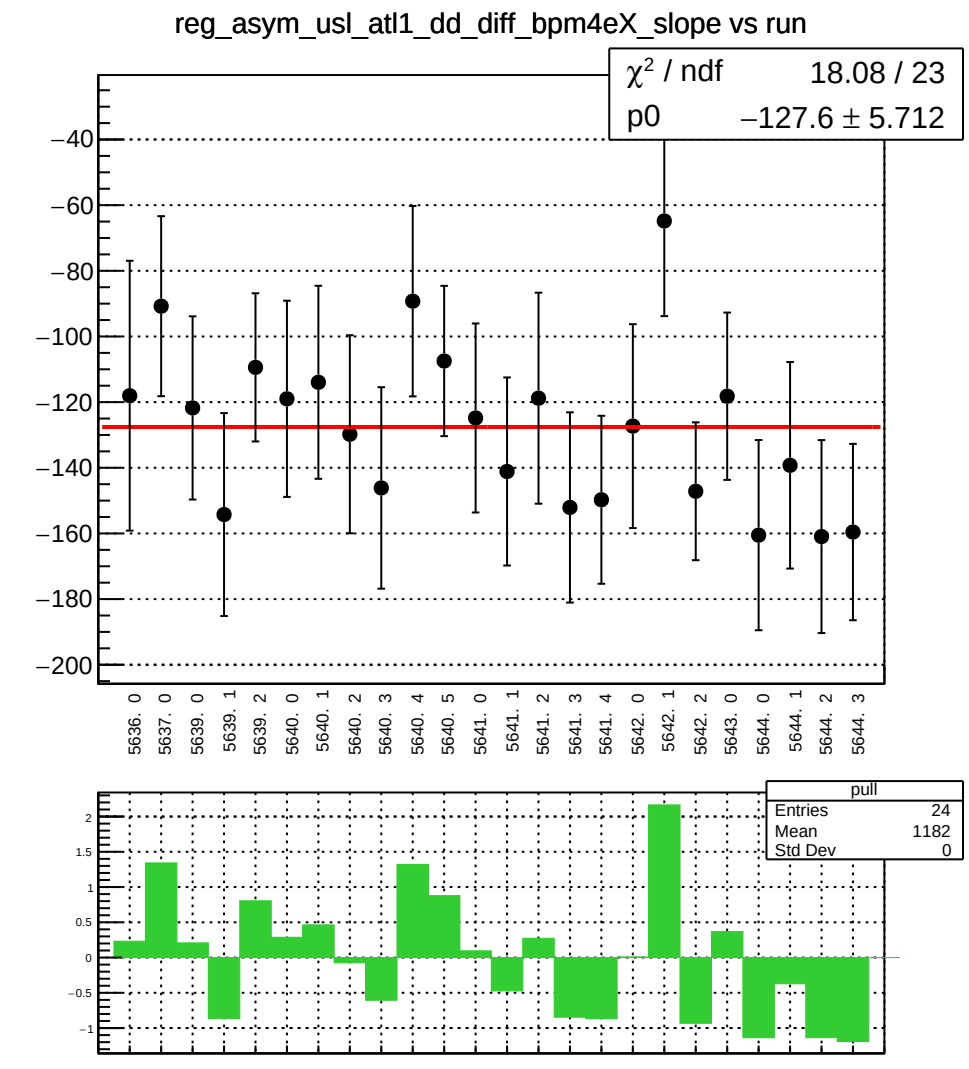

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.45 / 23
p0 15.26 ± 8.968
200
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 43.18
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean −0.05638
Std Dev 0.3749
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

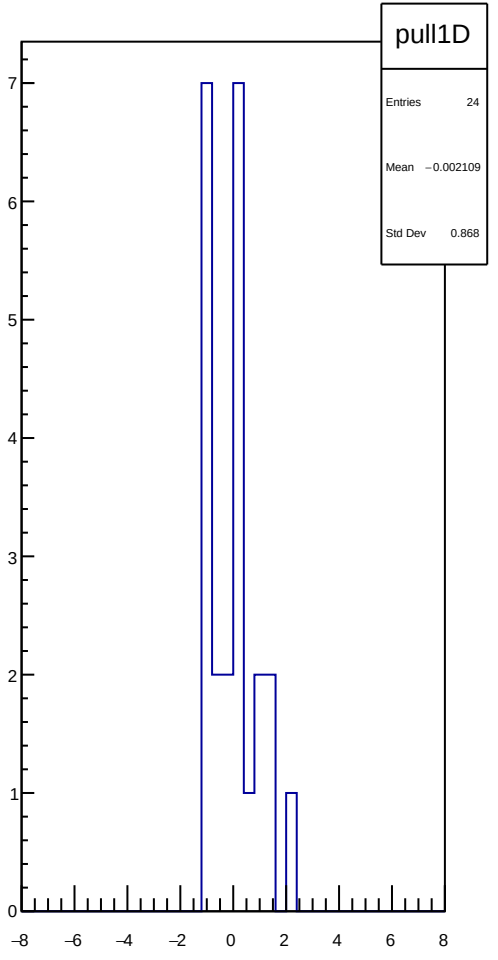

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 87.52 / 23
p0 −154.8 ± 0.4479
−145
−150
−155
−160
−165
−170
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 40.52
Std Dev 0
pull1D
Entries 24
Mean −0.0878
Std Dev 1.908

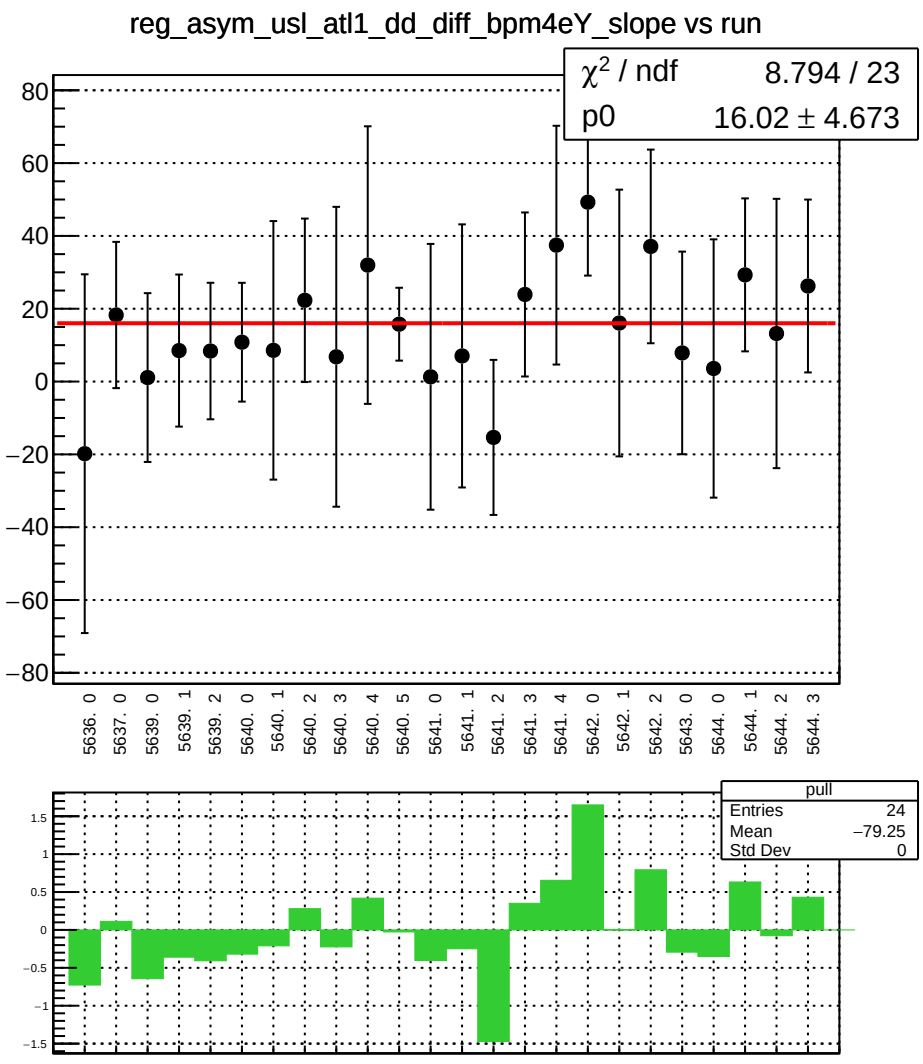

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 17.49 / 23
p0 57.03 ± 6.583
140
120
100
80
60
40
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 1264
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

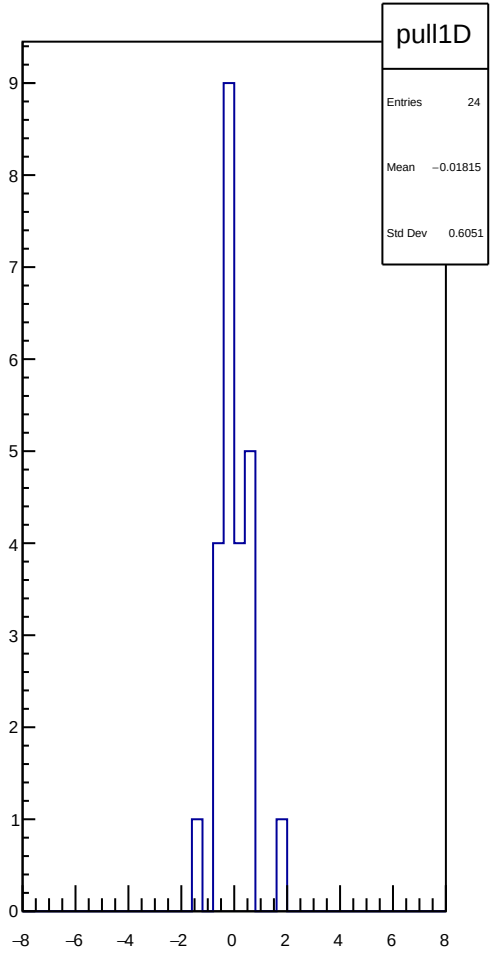

pull1D
Entries 24
Mean 0.002072
Std Dev 0.8536
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

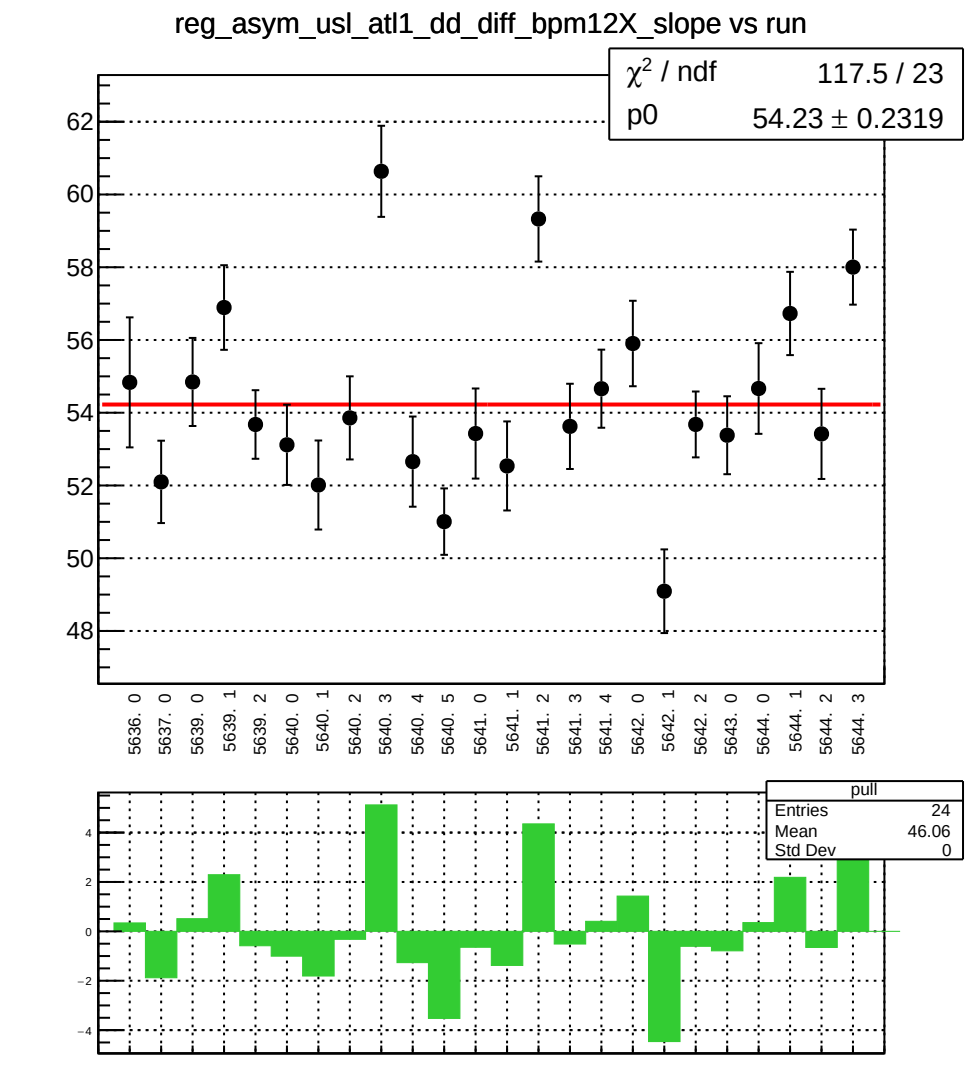

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.976 / 23
p0 −12.43 ± 3.676
60
40
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −599.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.002862
Std Dev 0.6115
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

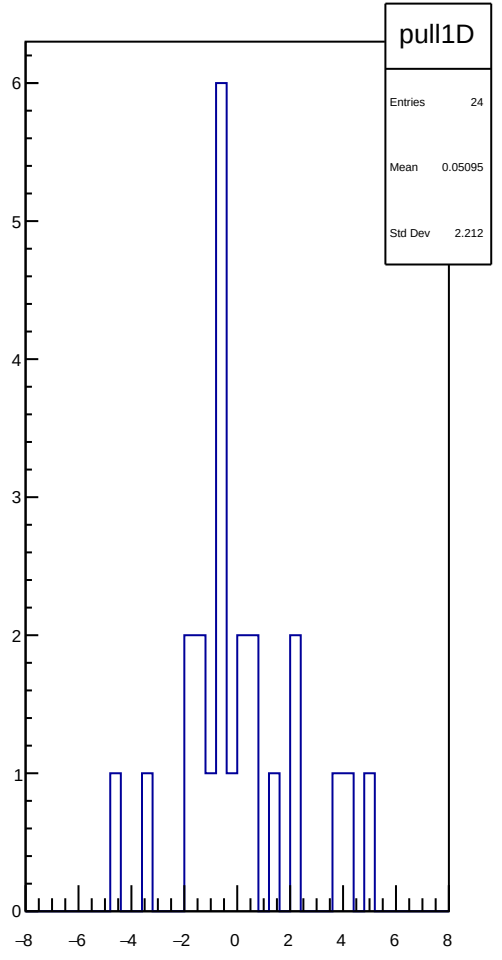

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.08 / 23
p0 −127.6 ± 5.712
−40
−60
−80
−100
−120
−140
−160
−180
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 1182
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

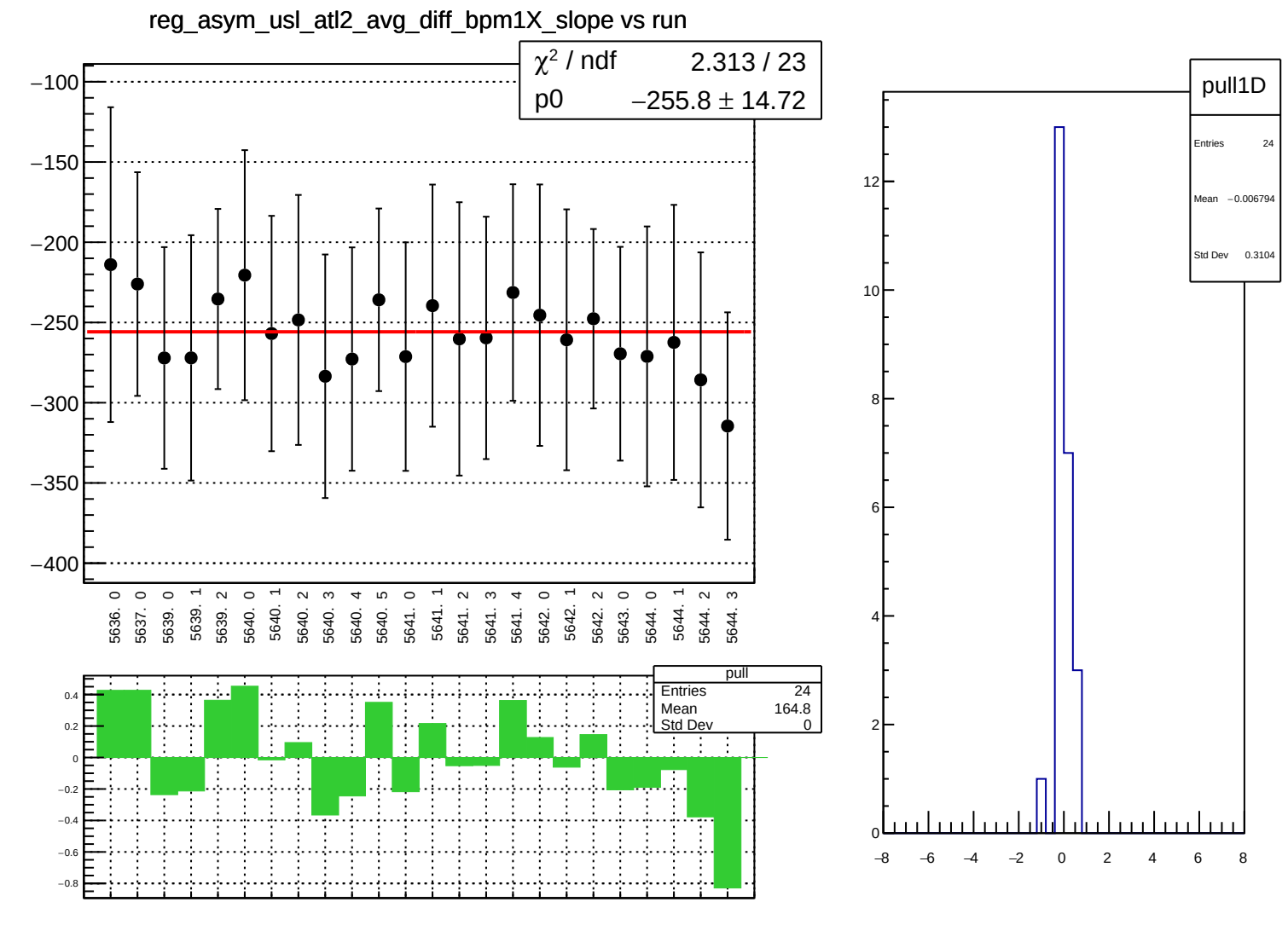

pull1D
Entries 24
Mean −0.002109
Std Dev 0.868
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

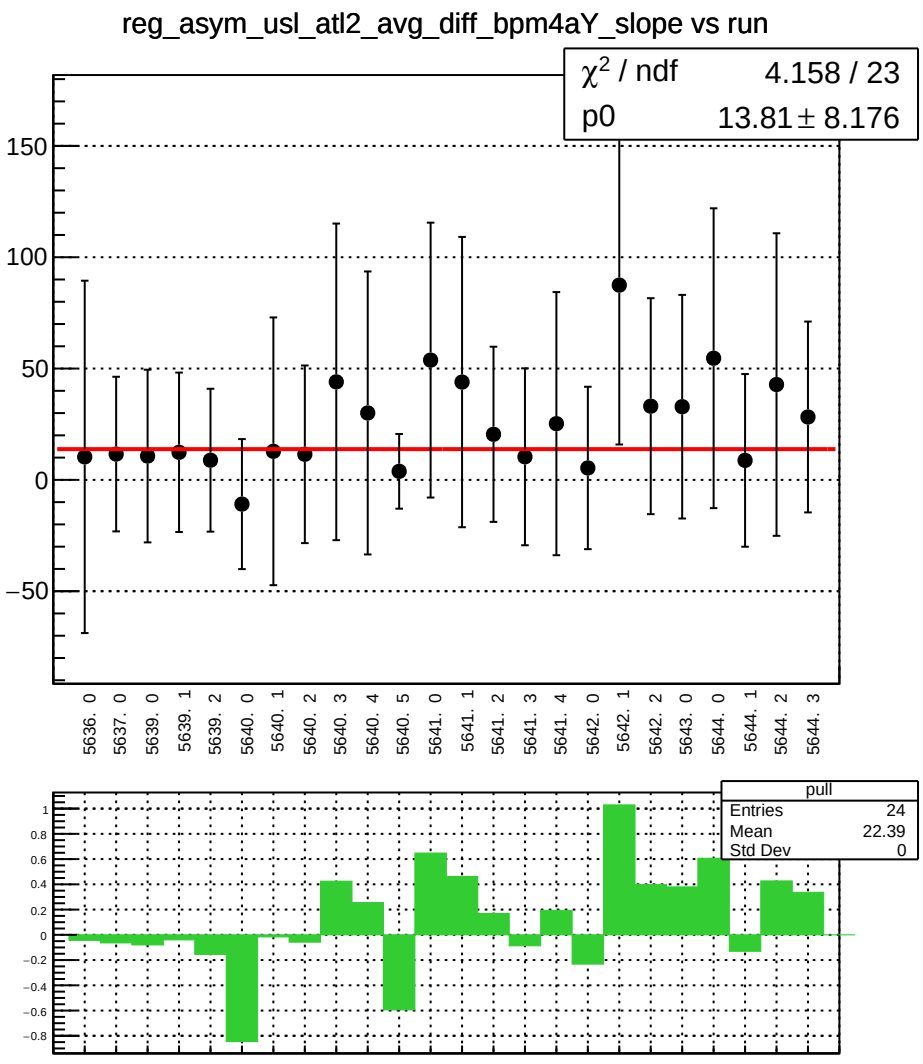

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.794 / 23
p0 16.02 ± 4.673
80
60
40
20
0
−20
−40
−60
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −79.25
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

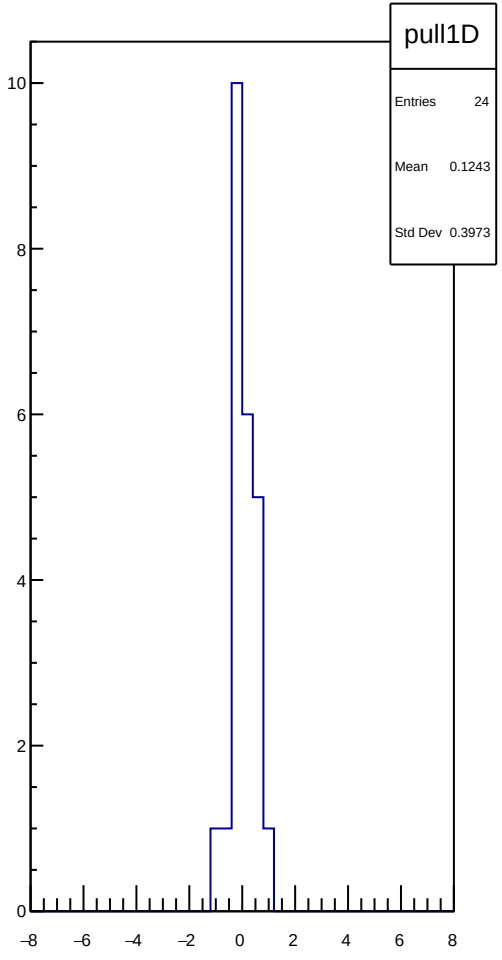

pull1D
Entries 24
Mean −0.01815
Std Dev 0.6051
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

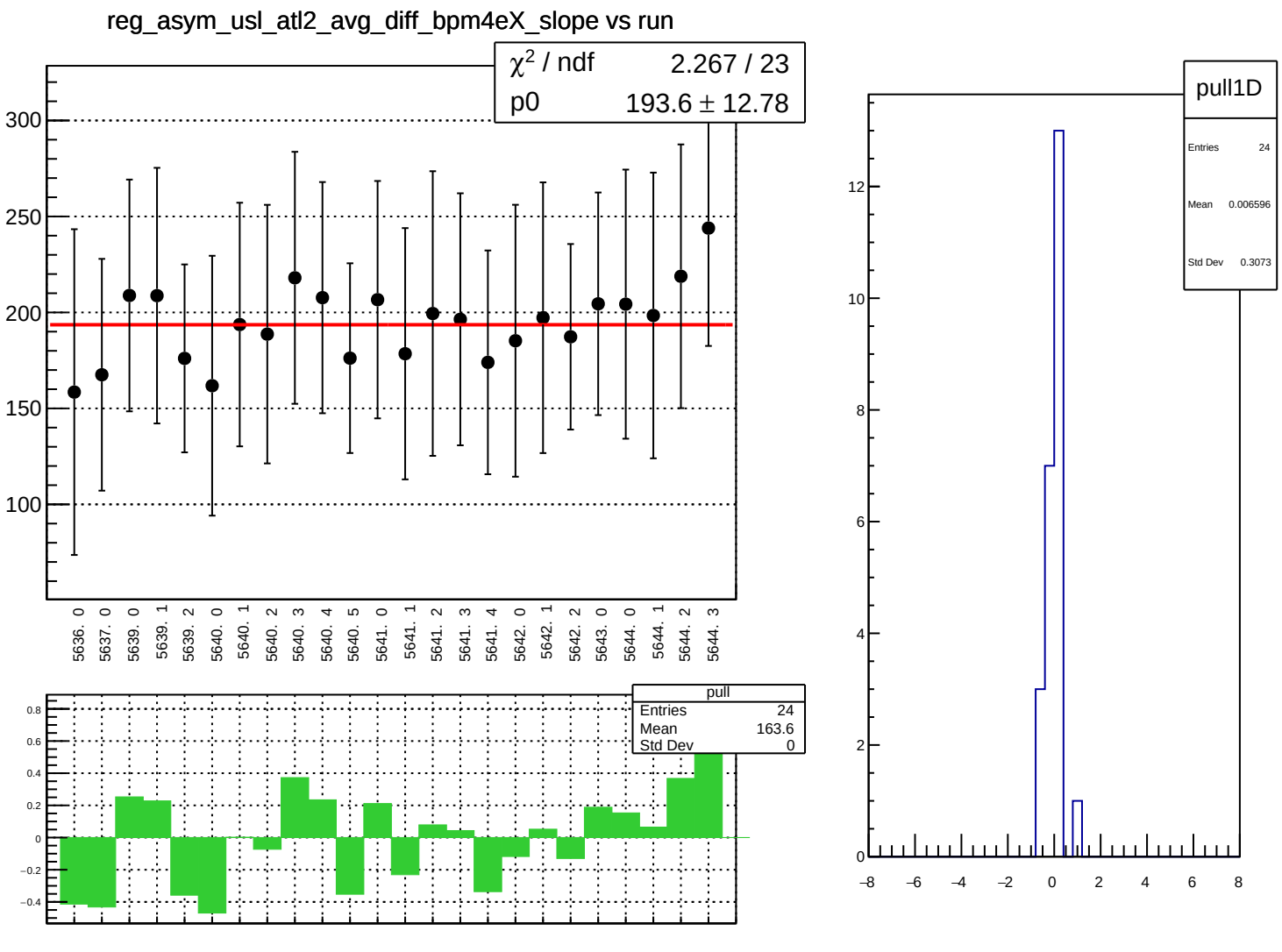

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 117.5 / 23
p0 54.23 ± 0.2319
62
60
58
56
54
52
50
48
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 46.06
Std Dev 0
4
2
0
−2
−4

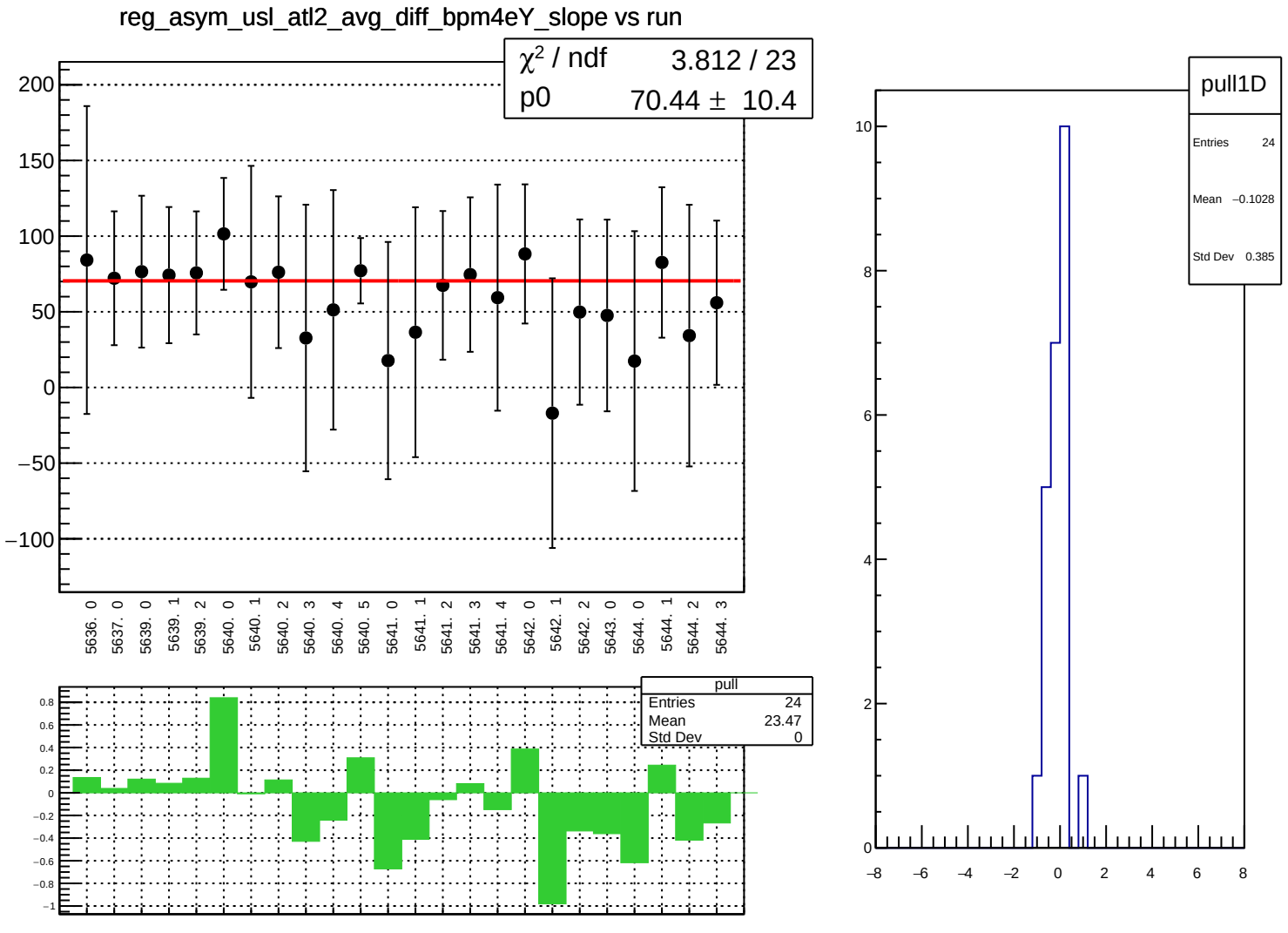

pull1D
Entries 24
Mean 0.05095
Std Dev 2.212
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

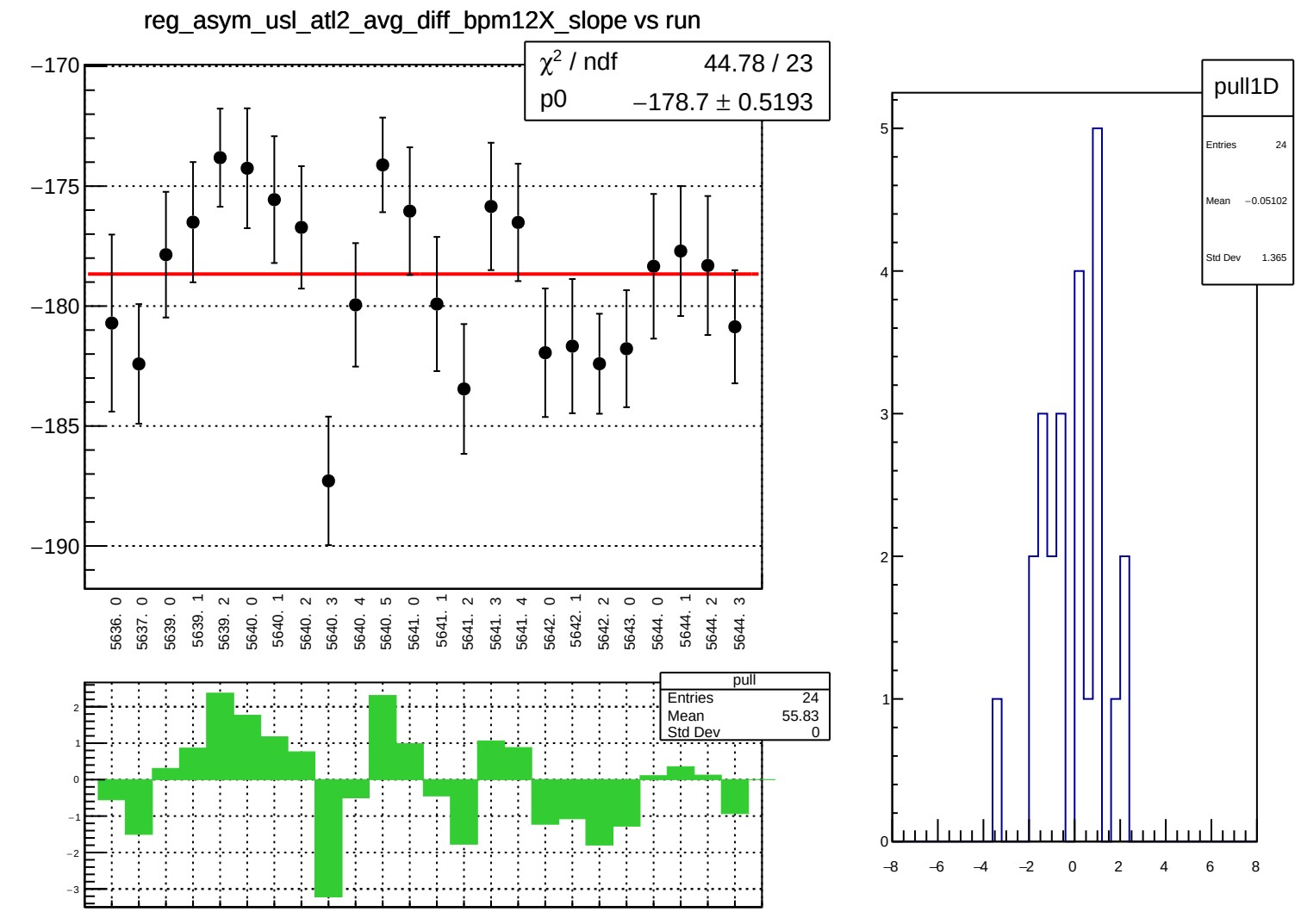

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 2.313 / 23
p0 −255.8 ± 14.72
−100
−150
−200
−250
−300
−350
−400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 164.8
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean −0.006794
Std Dev 0.3104
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

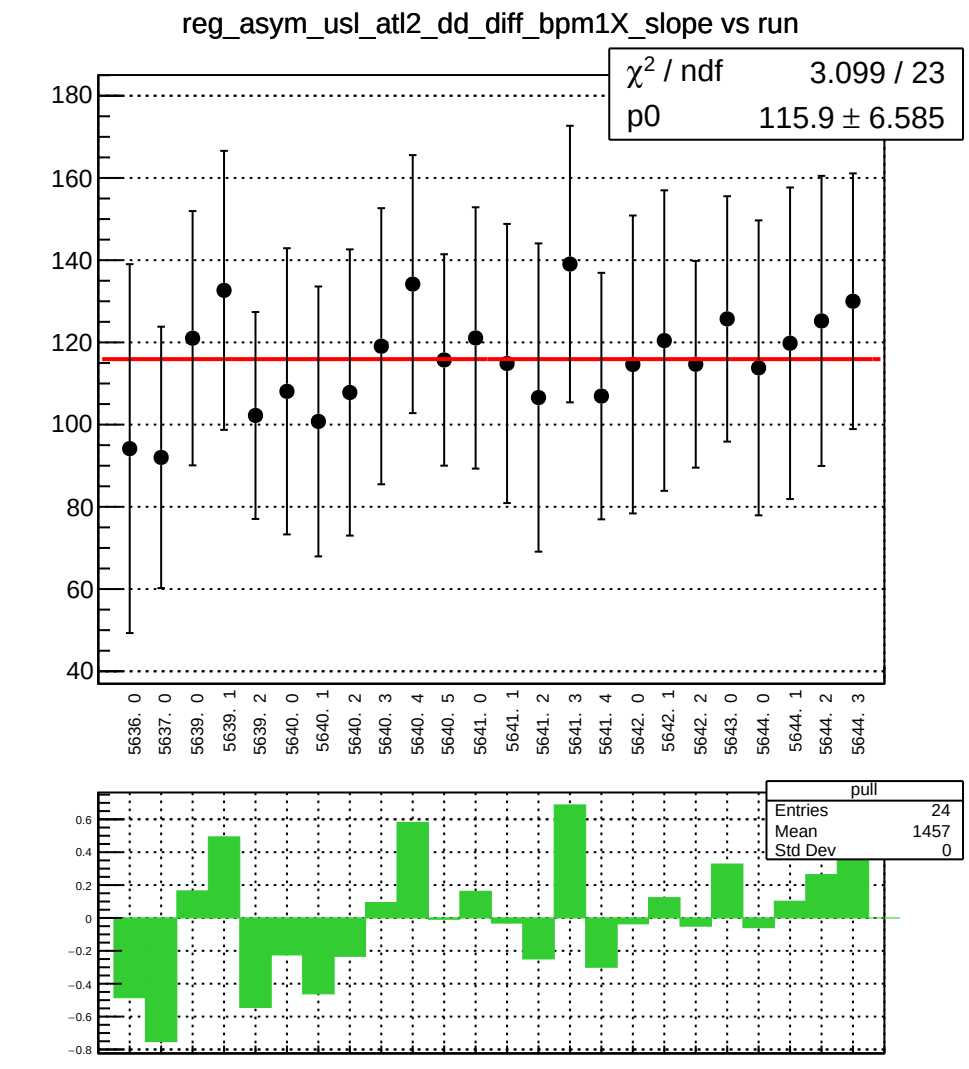

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.158 / 23
p0 13.81 ± 8.176
150
100
50
0
−50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 22.39
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

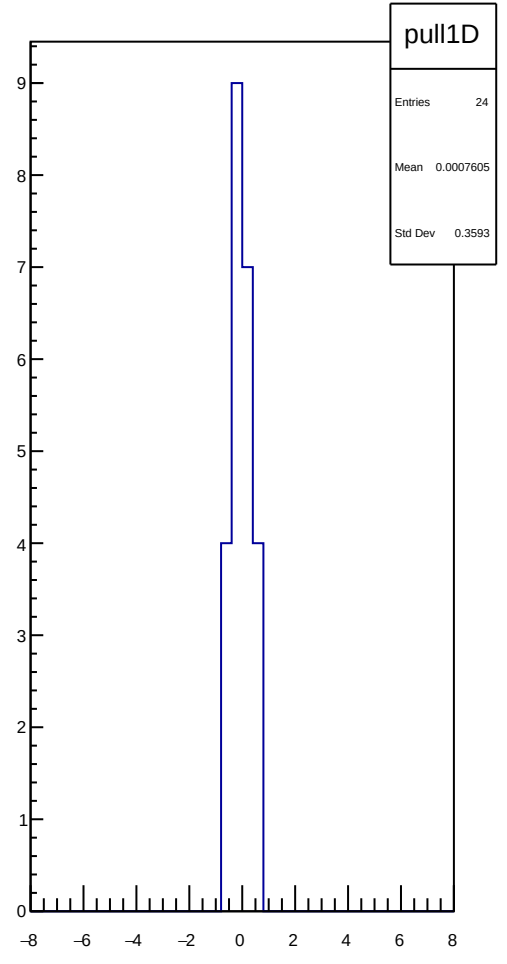

pull1D
Entries 24
Mean 0.1243
Std Dev 0.3973
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

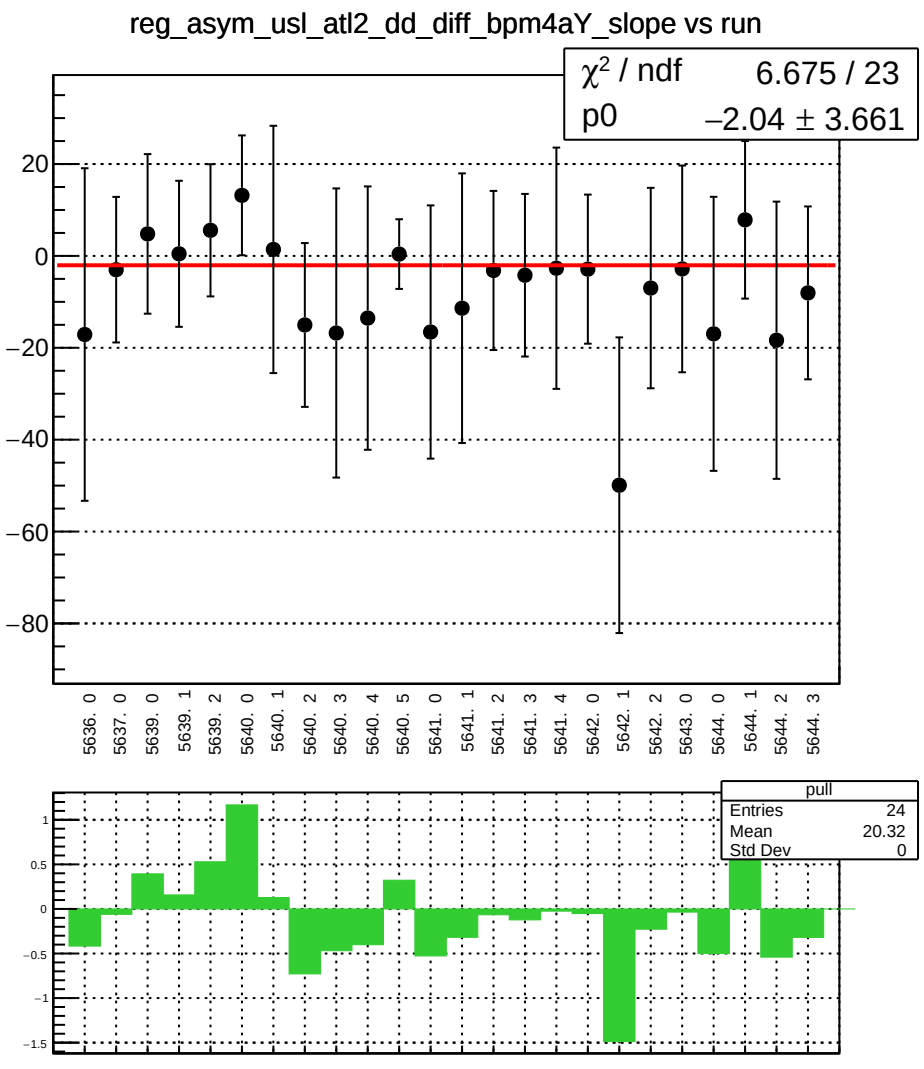

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.267 / 23
p0 193.6 ± 12.78
300
250
200
150
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 163.6
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 24
Mean 0.006596
Std Dev 0.3073
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

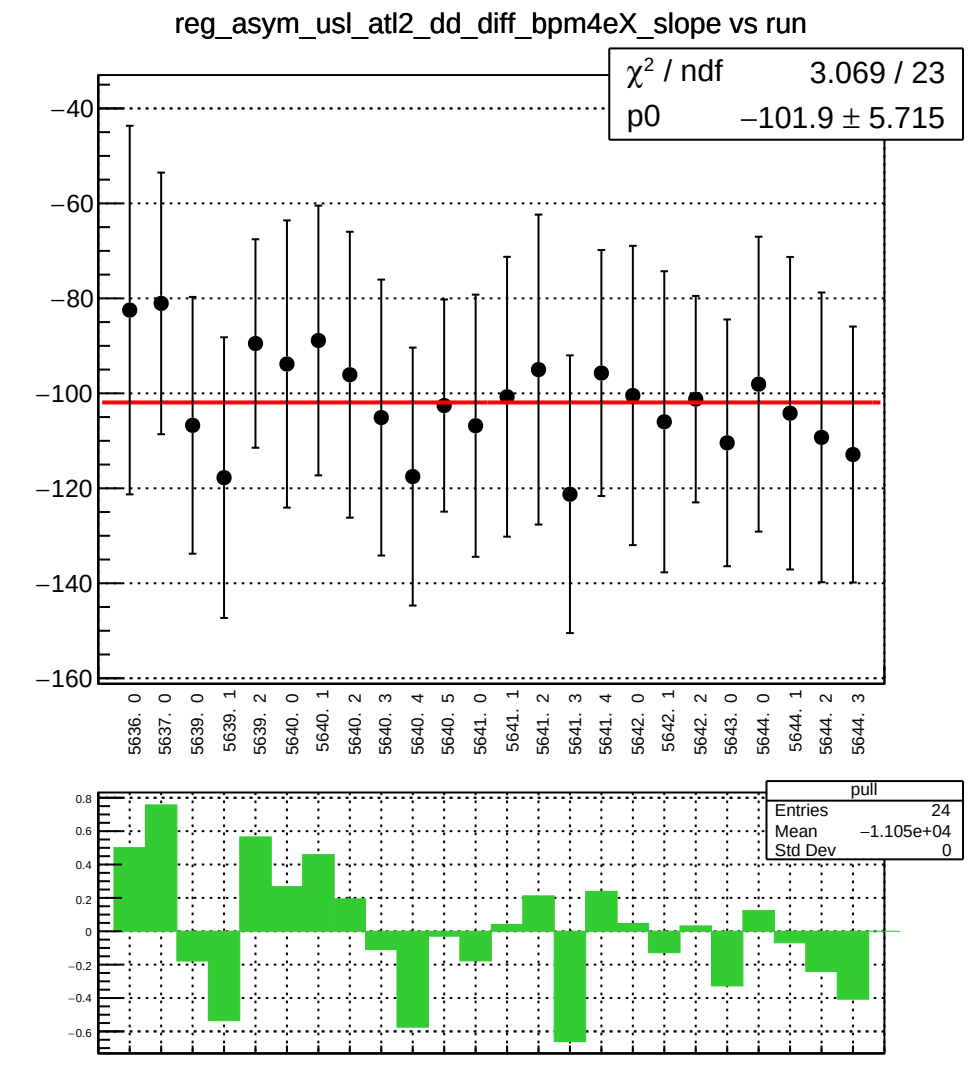

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.812 / 23
p0 70.44 ± 10.4
200
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 23.47
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 24
Mean −0.1028
Std Dev 0.385
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

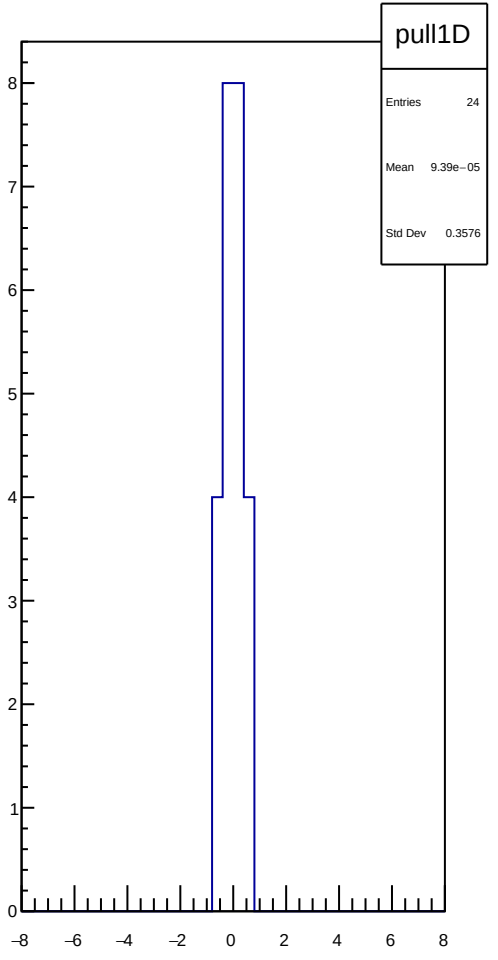

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 44.78 / 23
p0 −178.7 ± 0.5193
−170
−175
−180
−185
−190
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 55.83
Std Dev 0
pull1D
Entries 24
Mean −0.05102
Std Dev 1.365

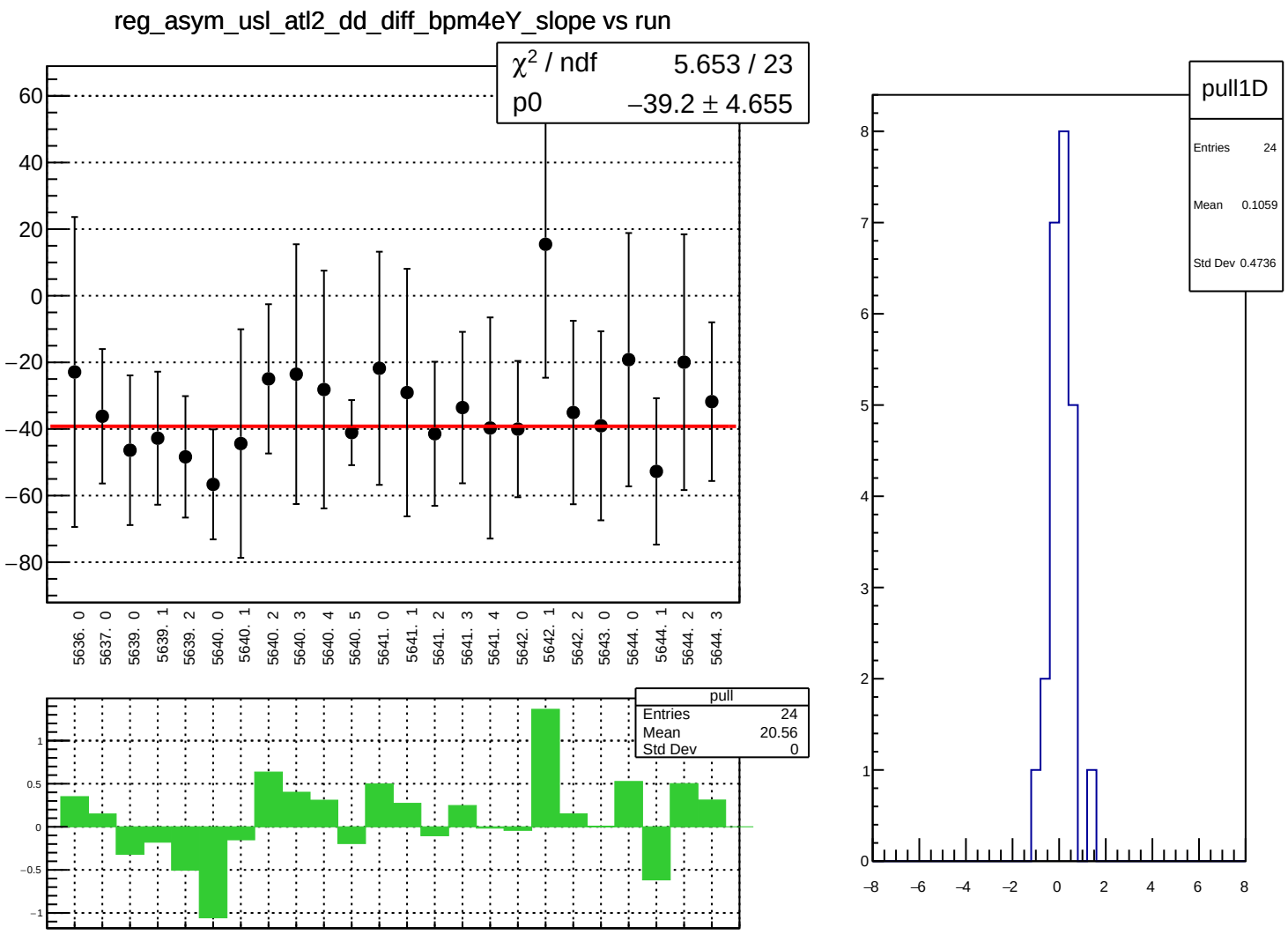

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 3.099 / 23
p0 115.9 ± 6.585
180
160
140
120
100
80
60
40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 1457
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

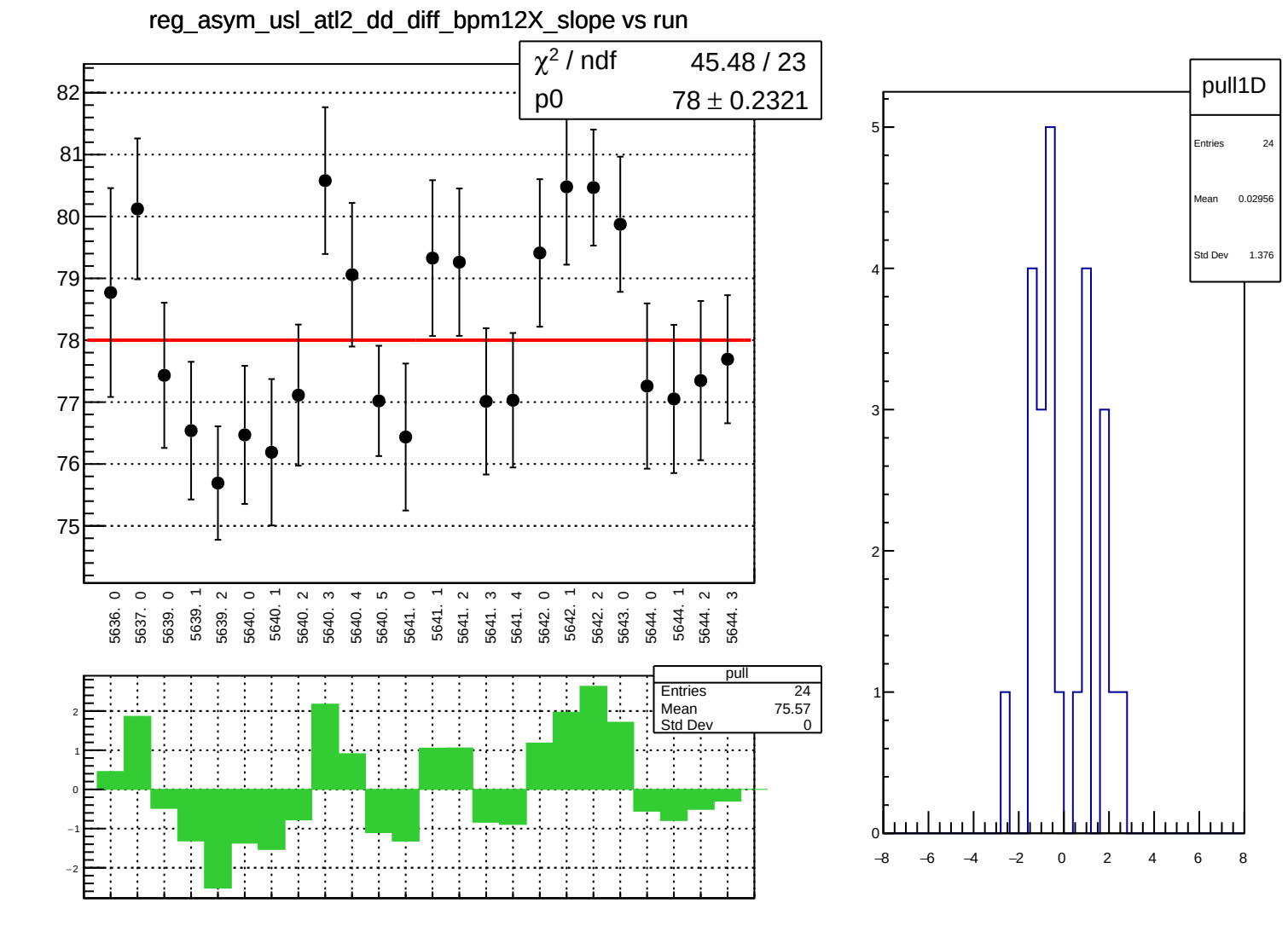

pull1D
Entries 24
Mean 0.0007605
Std Dev 0.3593
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

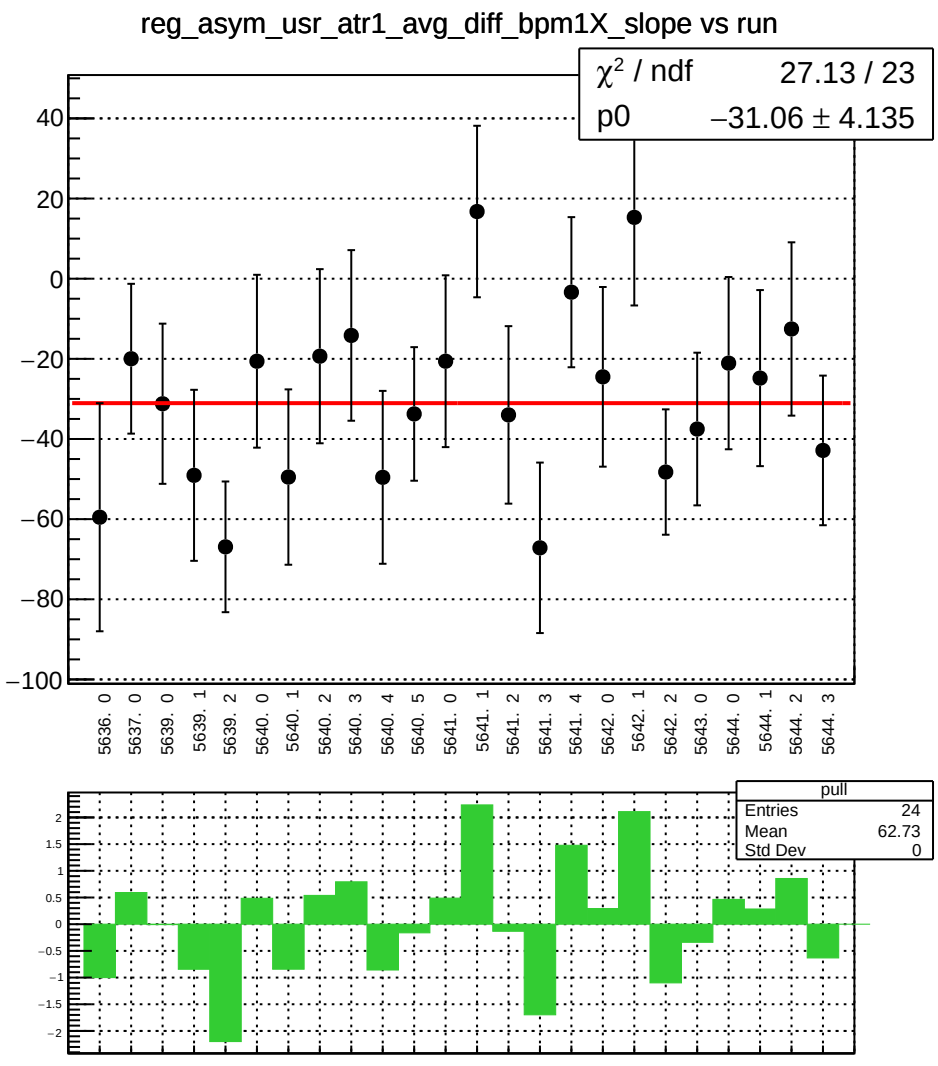

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.675 / 23
p0 −2.04 ± 3.661
20
0
−20
−40
−60
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 20.32
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.1258
Std Dev 0.5121
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

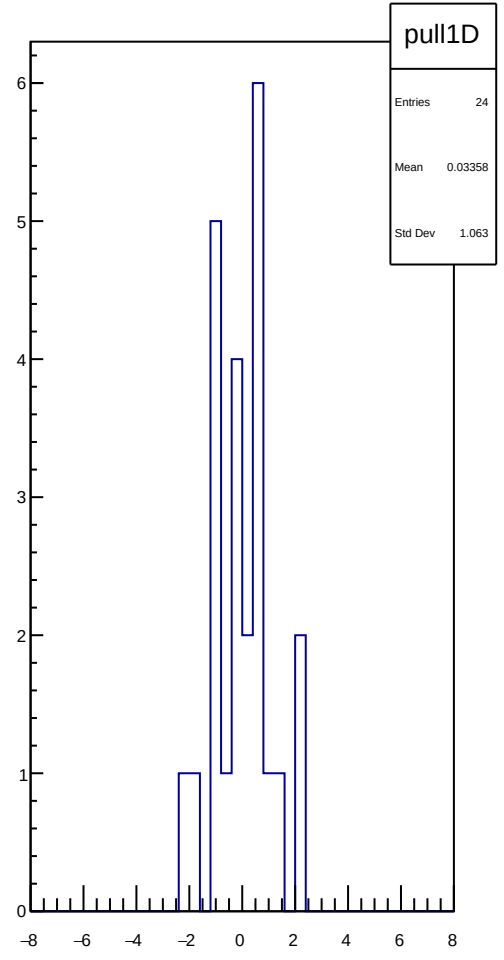

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.069 / 23
p0 −101.9 ± 5.715
−40
−60
−80
−100
−120
−140
−160
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −1.105e+04
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

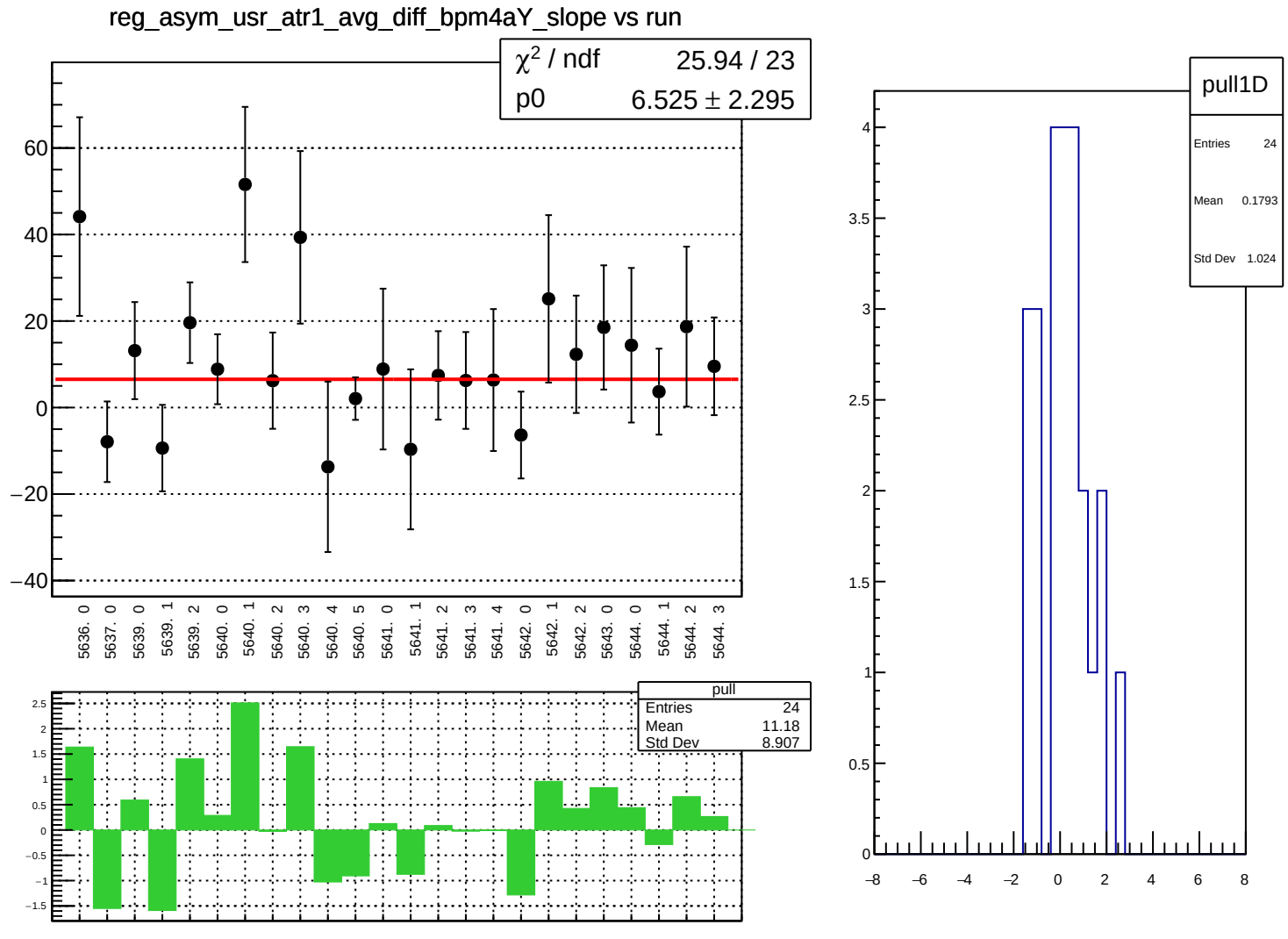

pull1D
Entries 24
Mean 9.39e−05
Std Dev 0.3576
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

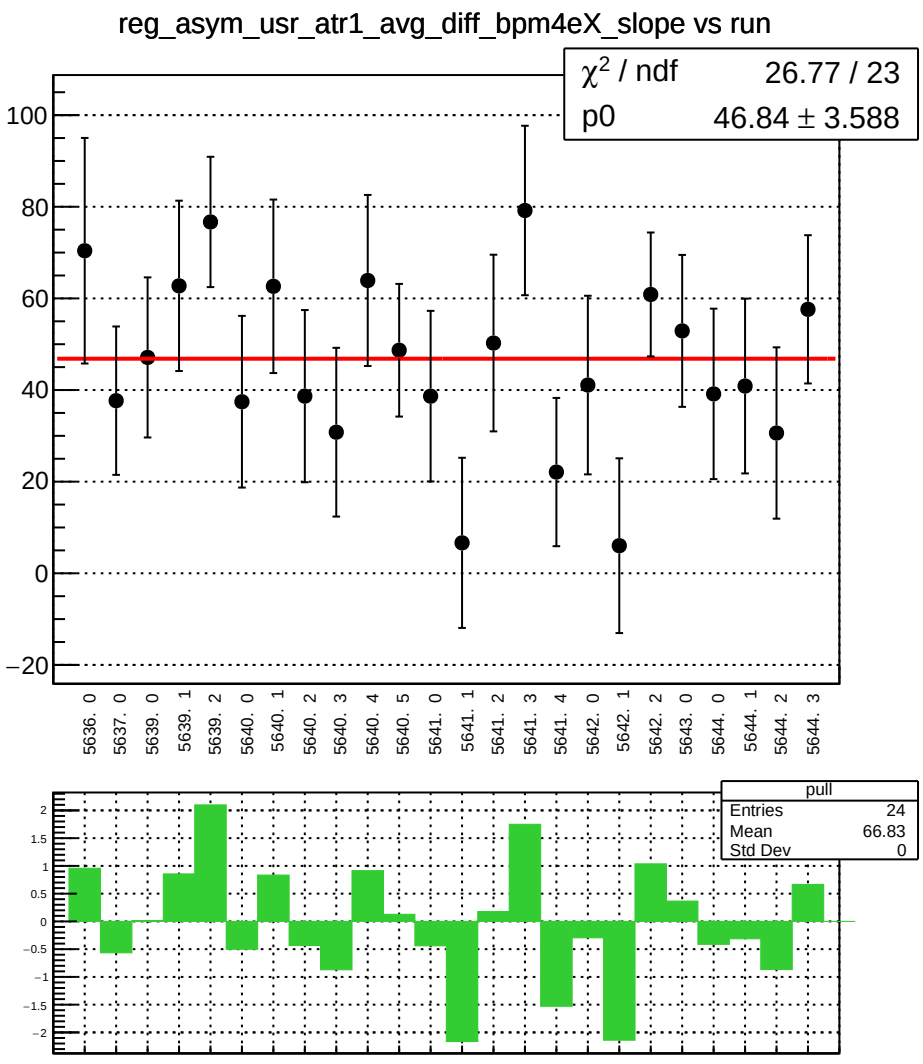

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.653 / 23
p0 −39.2 ± 4.655
60
40
20
0
−20
−40
−60
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 20.56
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.1059
Std Dev 0.4736
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

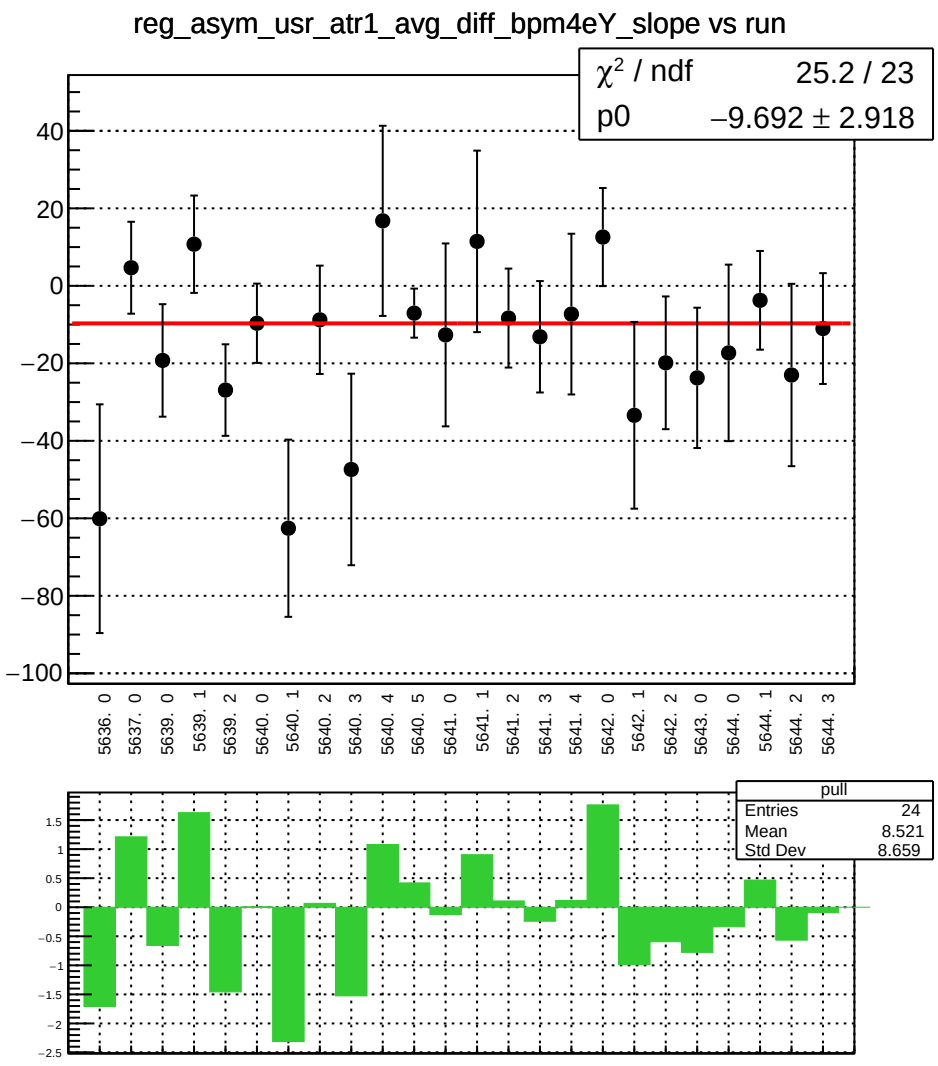

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 45.48 / 23
p0 78 ± 0.2321
82
81
80
79
78
77
76
75
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 75.57
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 24
Mean 0.02956
Std Dev 1.376
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

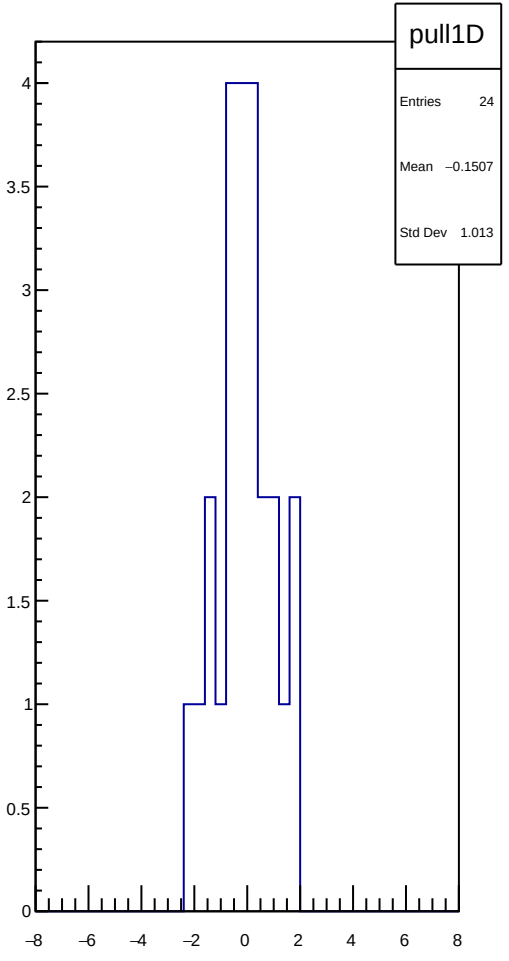

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 27.13 / 23
p0 −31.06 ± 4.135
40
20
0
−20
−40
−60
−80
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 62.73
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

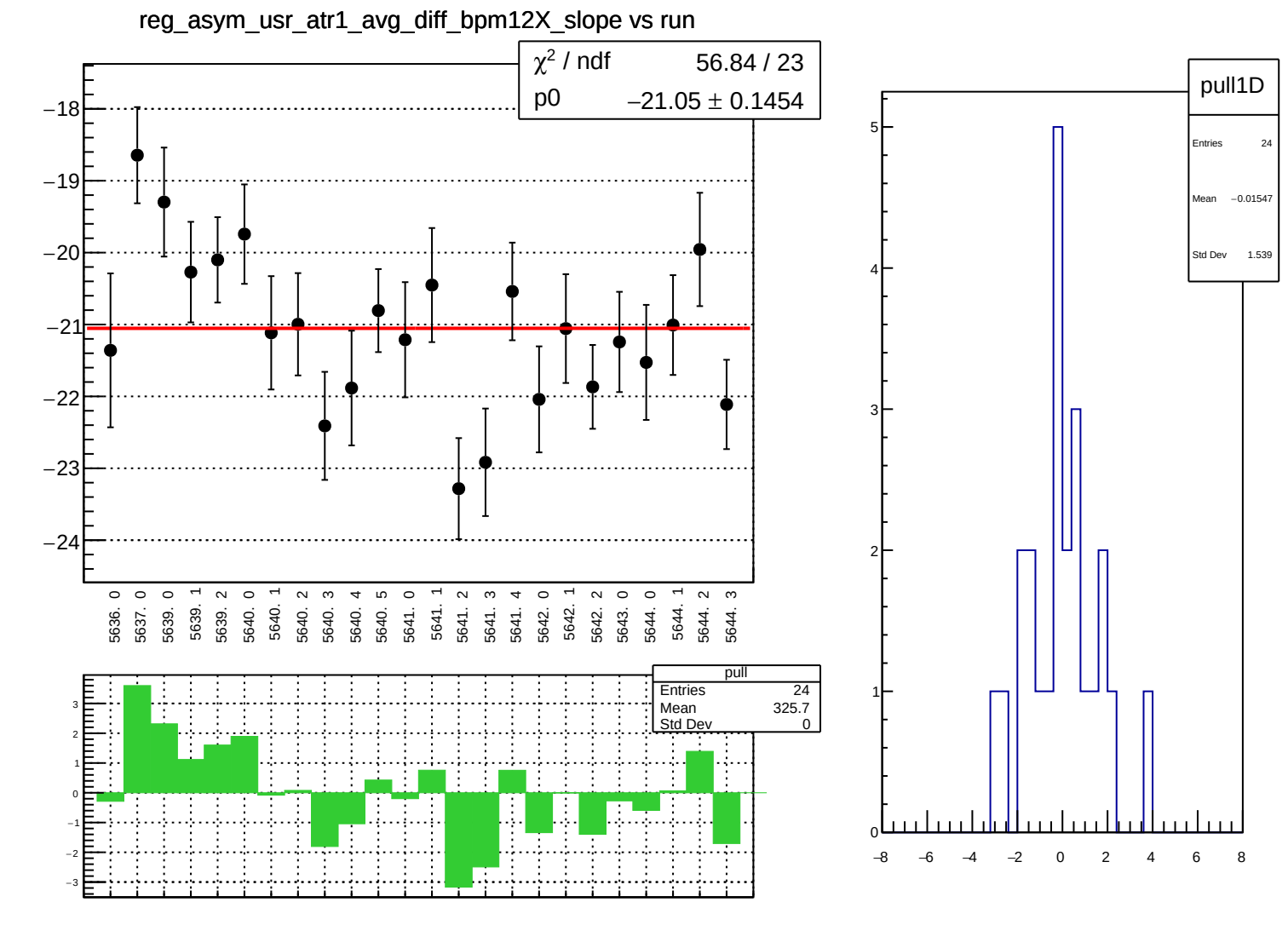

pull1D
Entries 24
Mean 0.03358
Std Dev 1.063
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

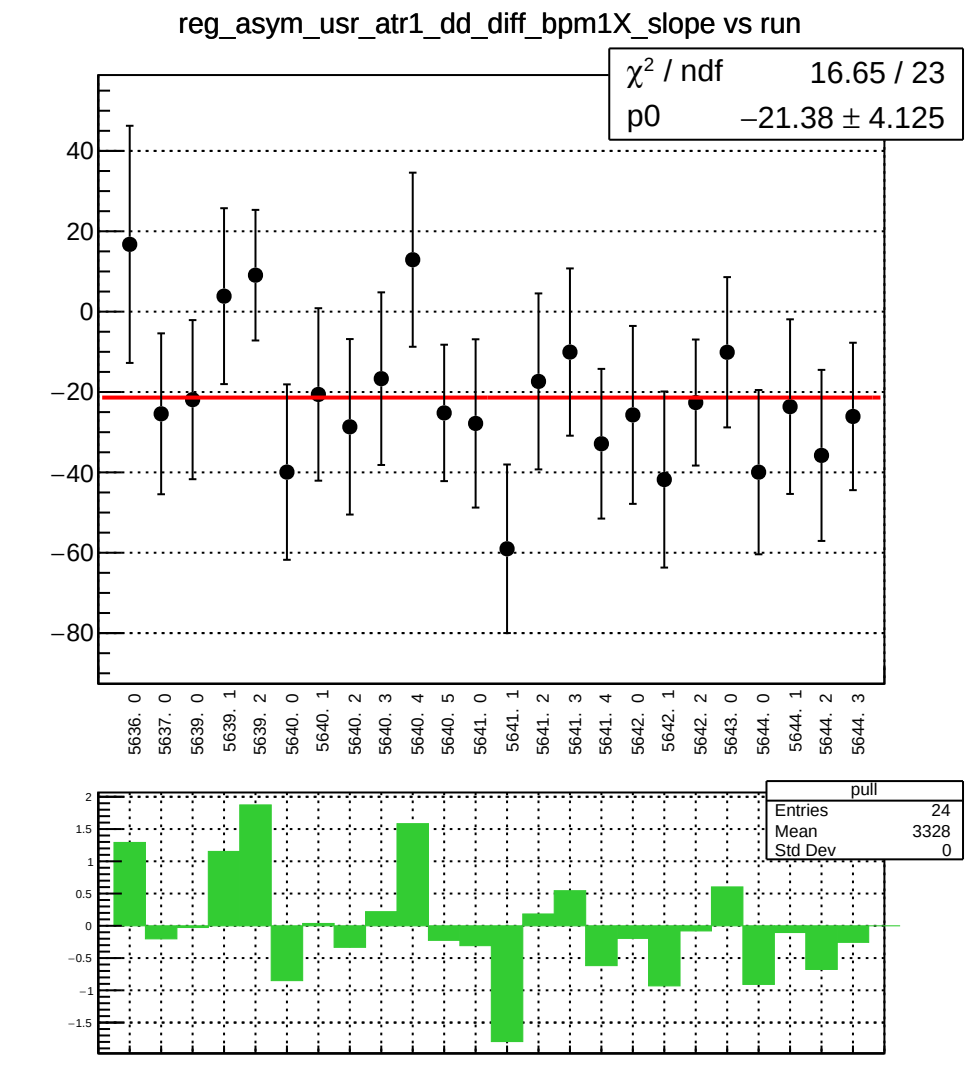

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.94 / 23
p0 6.525 ± 2.295
60
40
20
0
−20
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 11.18
Std Dev 8.907
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.1793
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

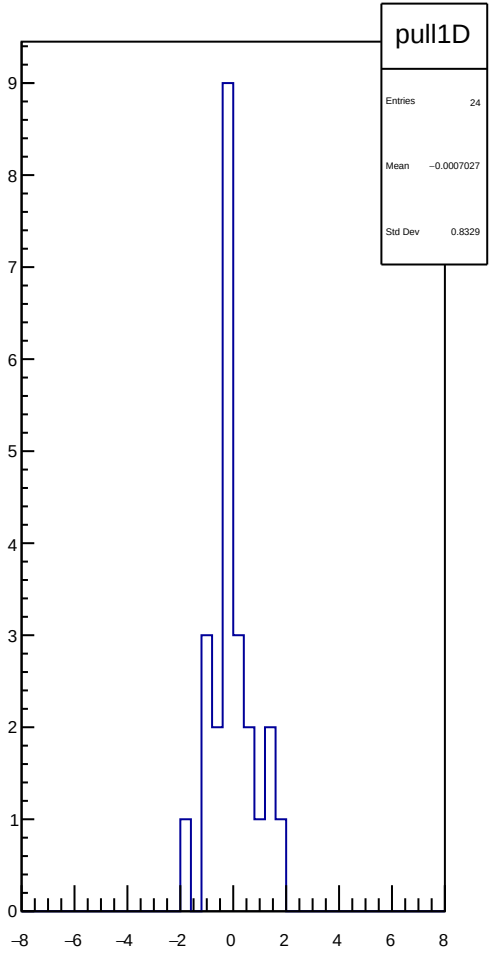

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 26.77 / 23
p0 46.84 ± 3.588
100
80
60
40
20
0
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 66.83
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.03051
Std Dev 1.056
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

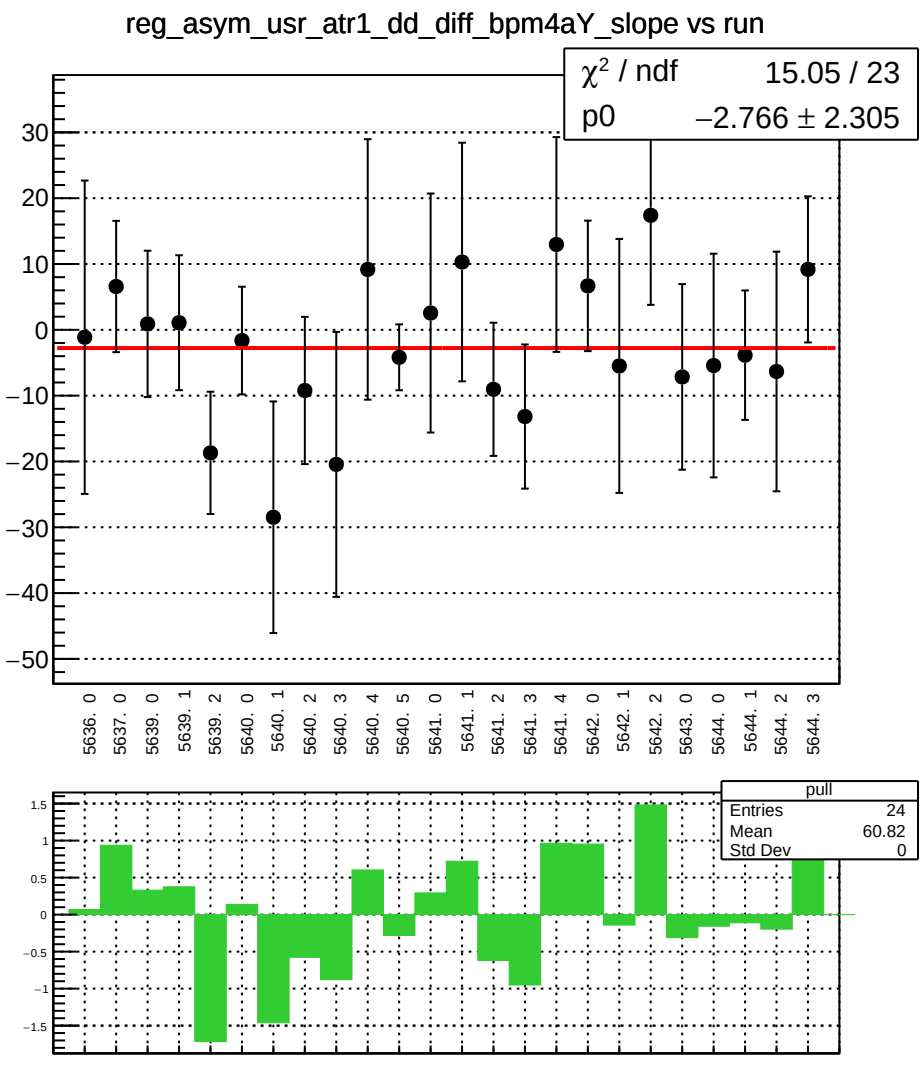

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.2 / 23
p0 −9.692 ± 2.918
40
20
0
−20
−40
−60
−80
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 8.521
Std Dev 8.659
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

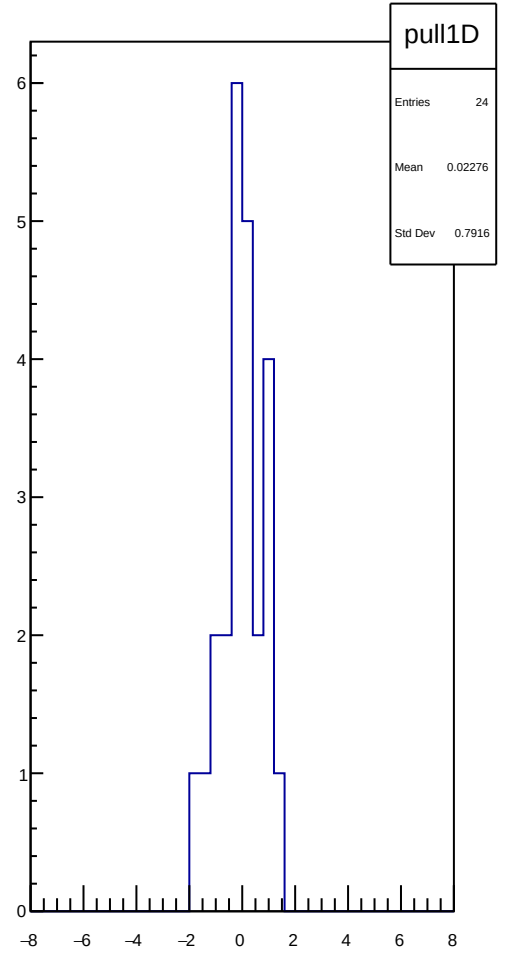

pull1D
Entries 24
Mean −0.1507
Std Dev 1.013
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

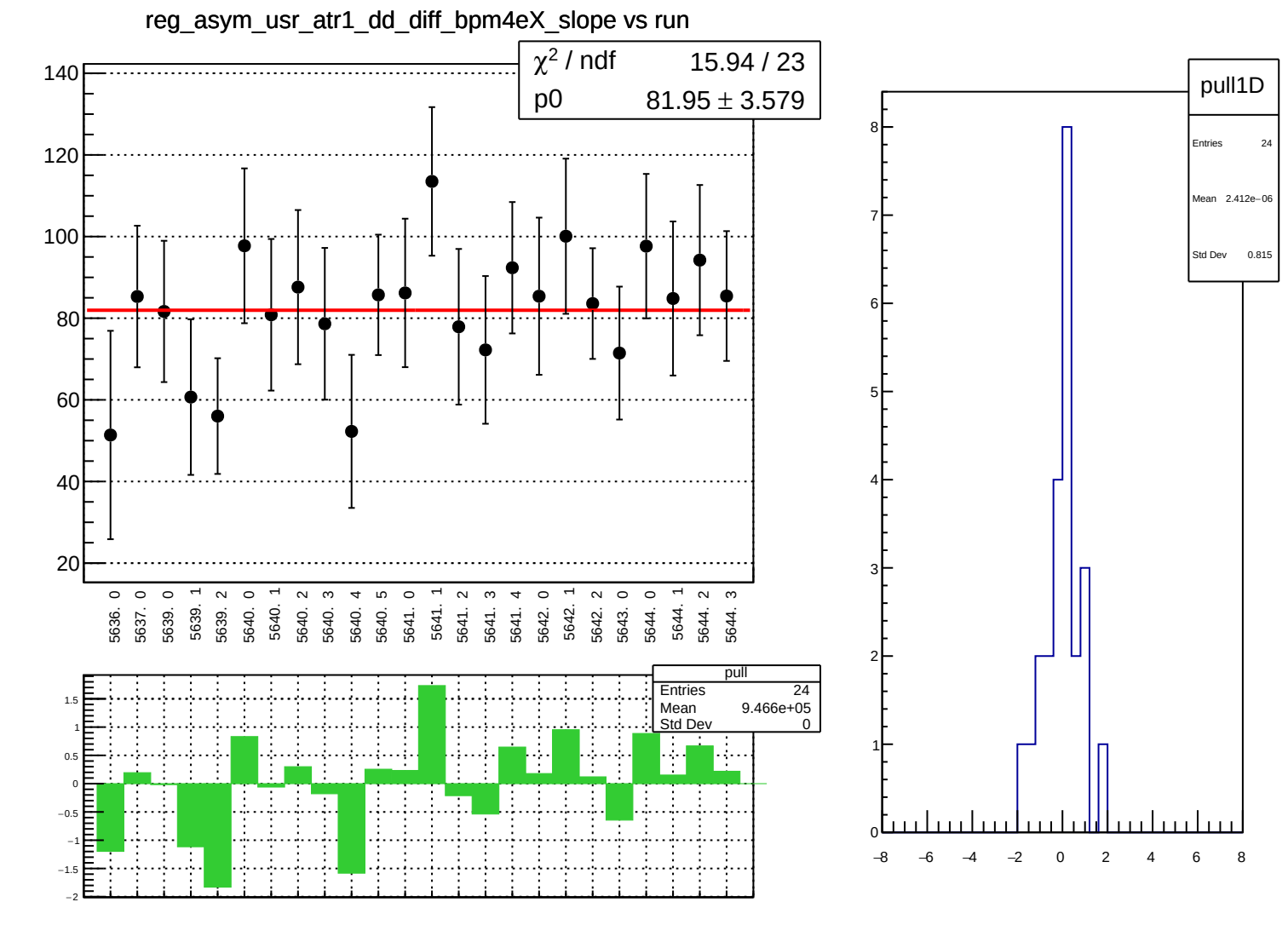

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 56.84 / 23
p0 −21.05 ± 0.1454
−18
−19
−20
−21
−22
−23
−24
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 325.7
Std Dev 0
pull1D
Entries 24
Mean −0.01547
Std Dev 1.539

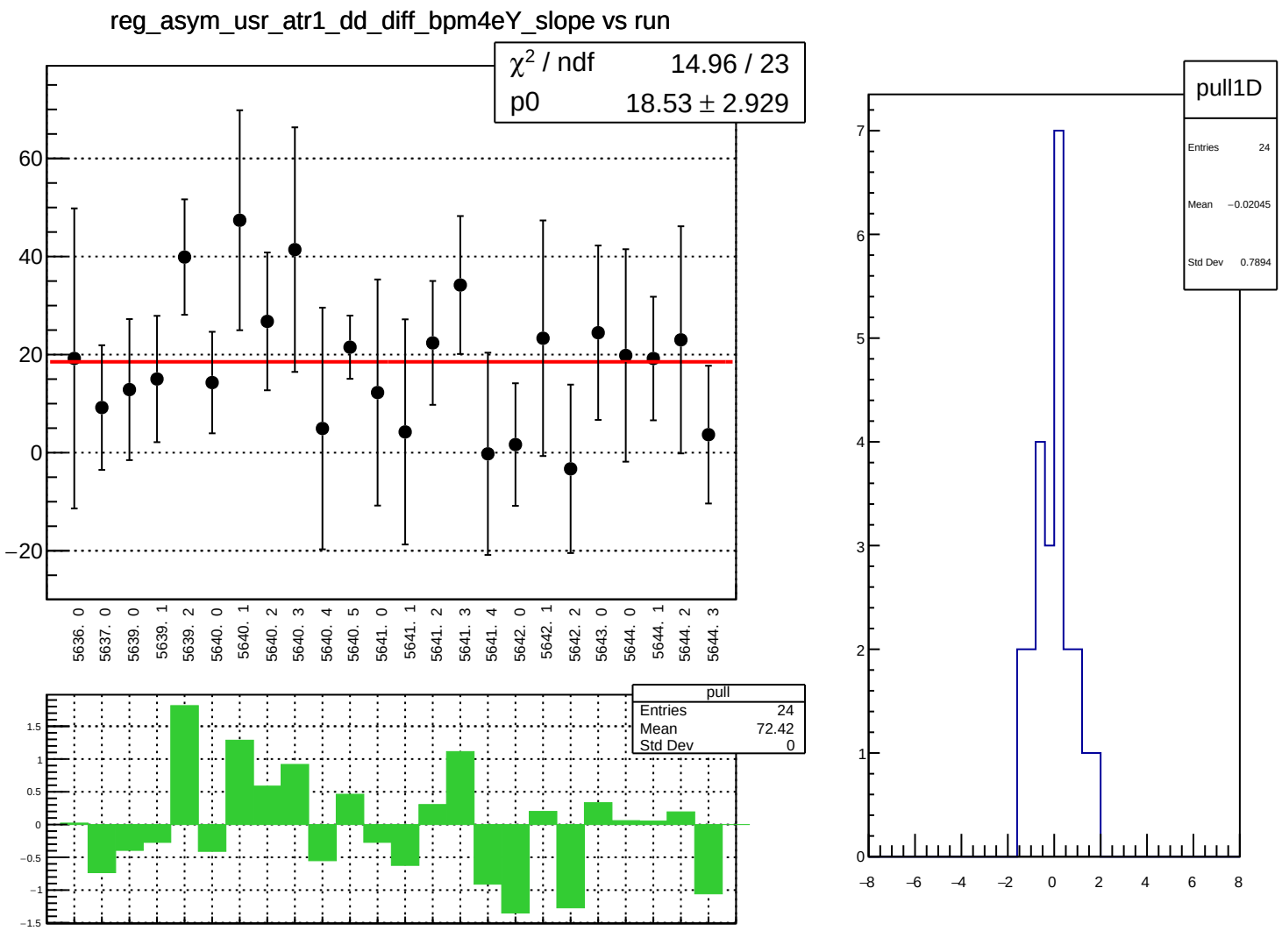

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 16.65 / 23
p0 −21.38 ± 4.125
40
20
0
−20
−40
−60
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 3328
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

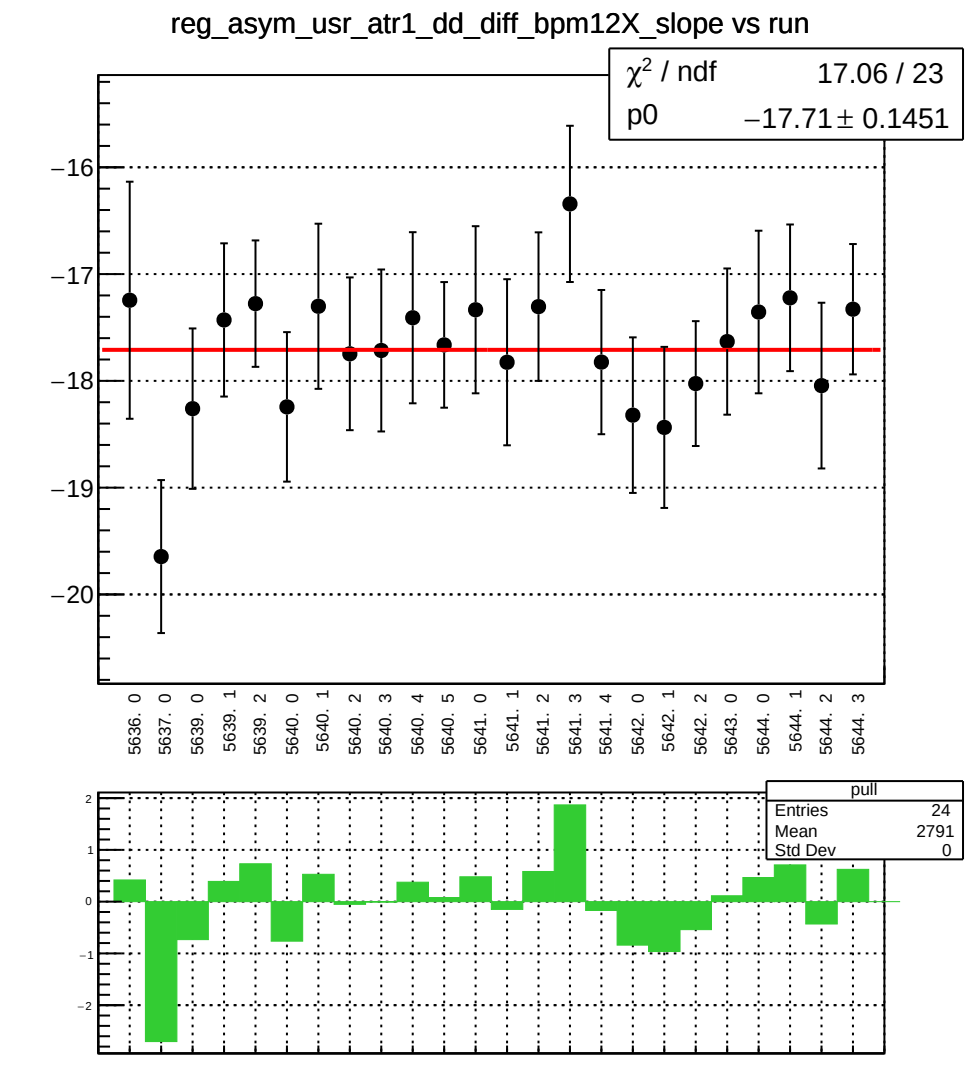

pull1D
Entries 24
Mean −0.0007027
Std Dev 0.8329
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

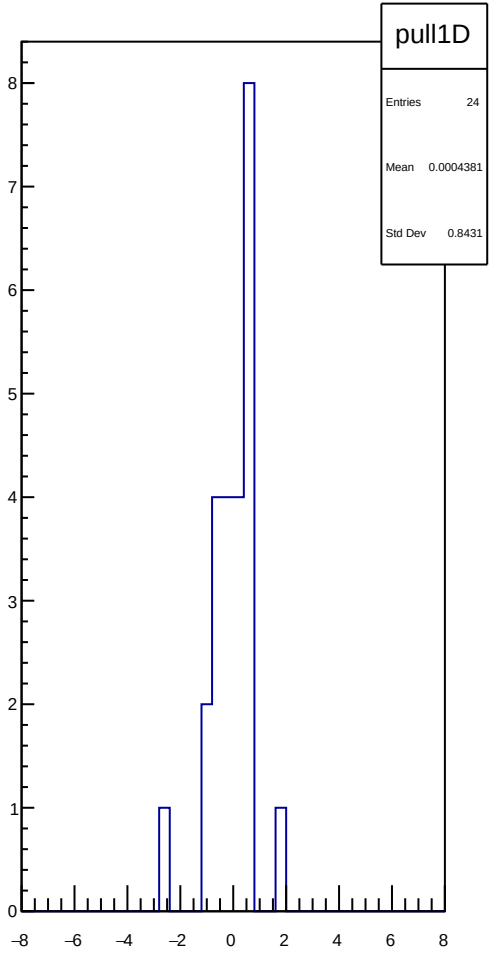

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.05 / 23
p0 −2.766 ± 2.305
30
20
10
0
−10
−20
−30
−40
−50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 60.82
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

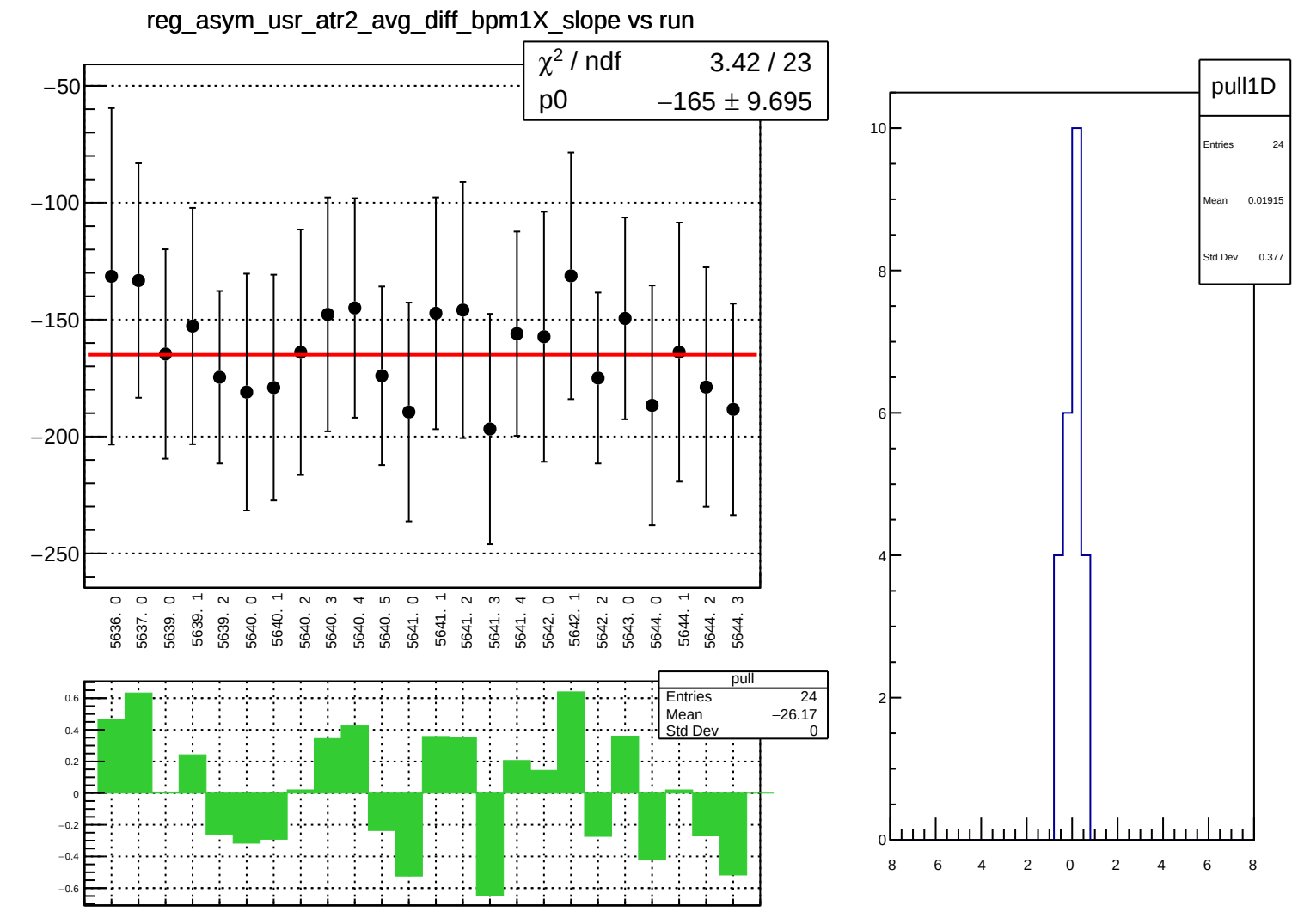

pull1D
Entries 24
Mean 0.02276
Std Dev 0.7916
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

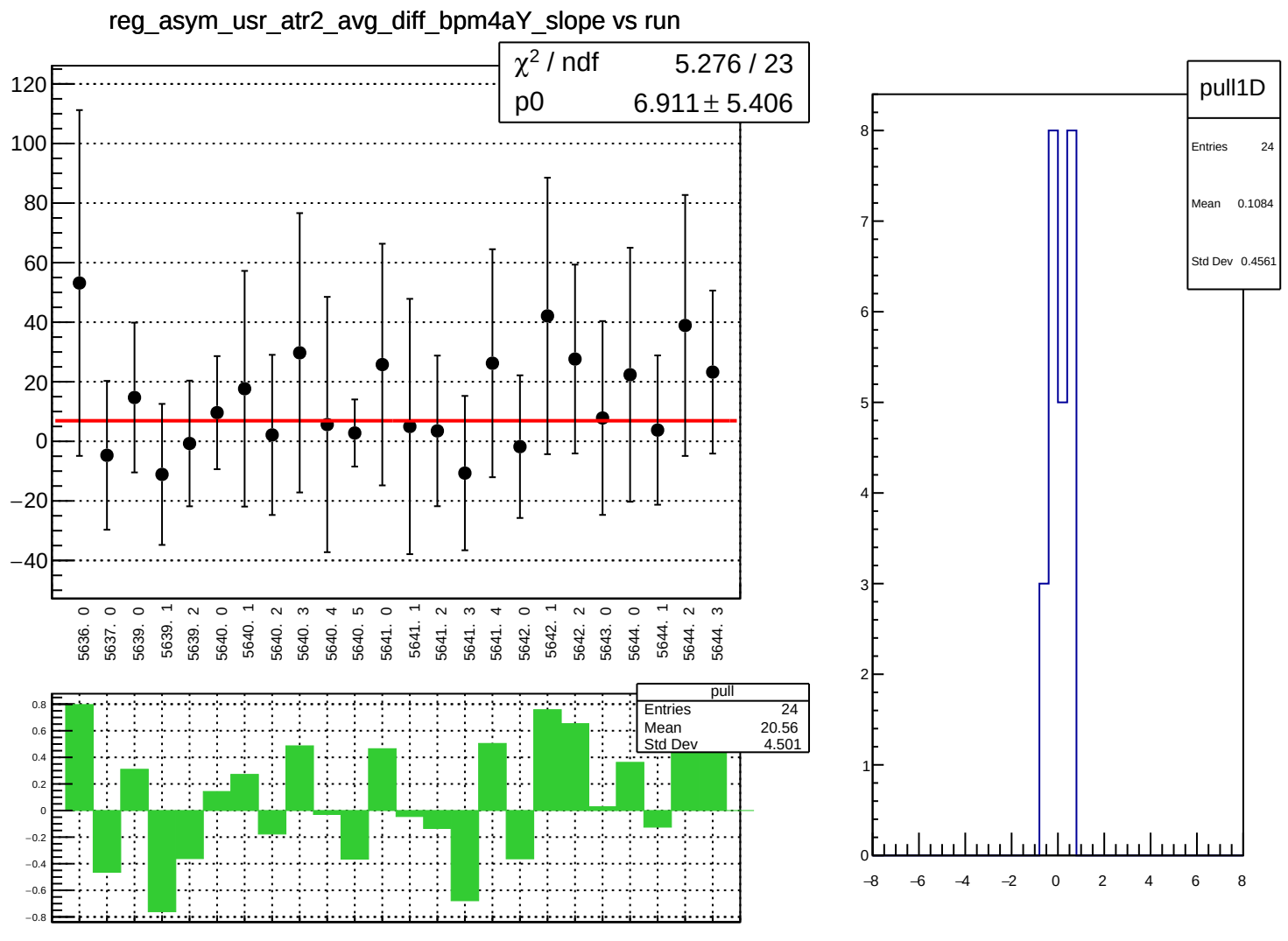

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.94 / 23
p0 81.95 ± 3.579
140
120
100
80
60
40
20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 9.466e+05
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 2.412e−06
Std Dev 0.815
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

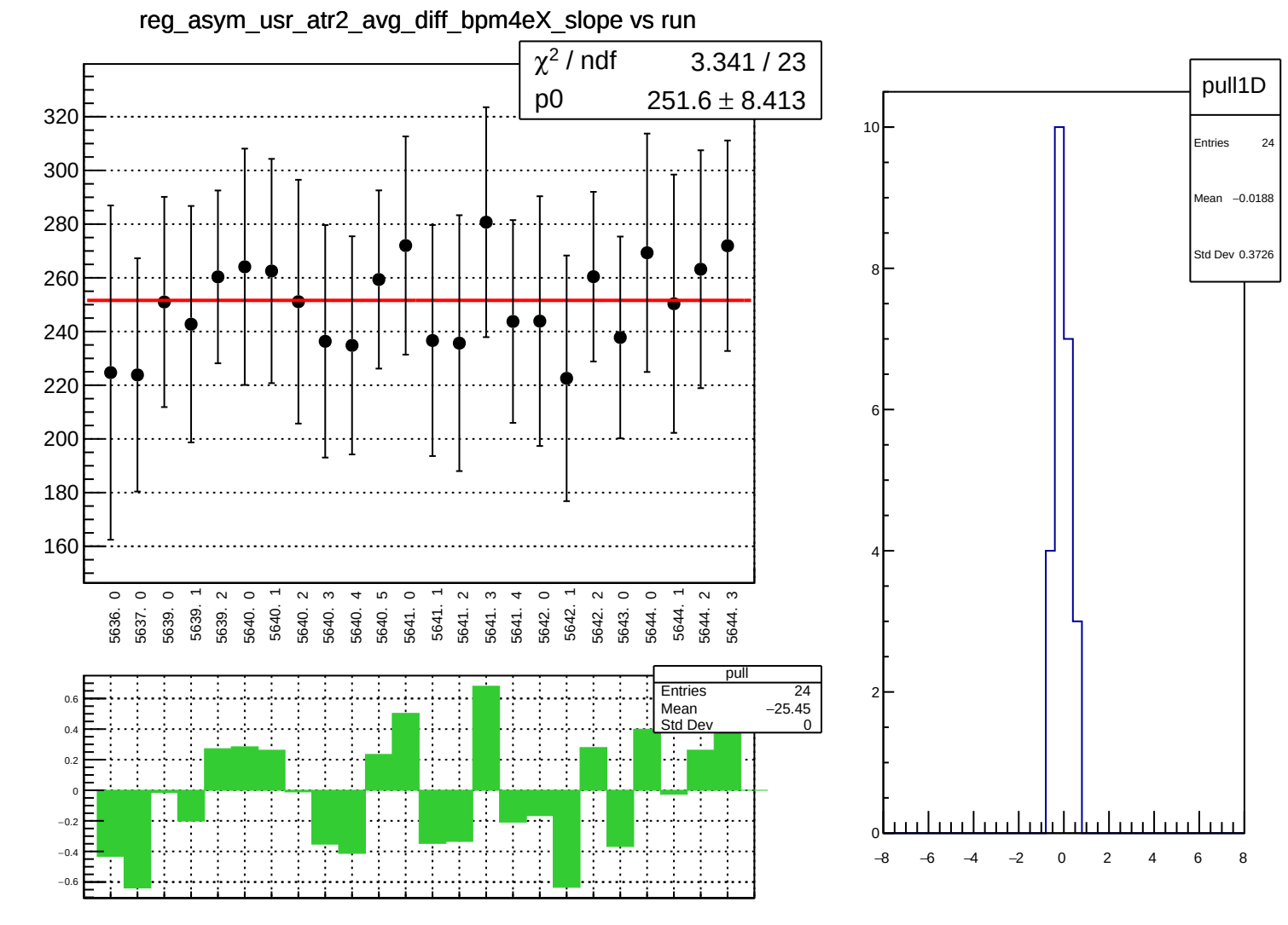

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.96 / 23
p0 18.53 ± 2.929
60
40
20
0
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 72.42
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.02045
Std Dev 0.7894
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

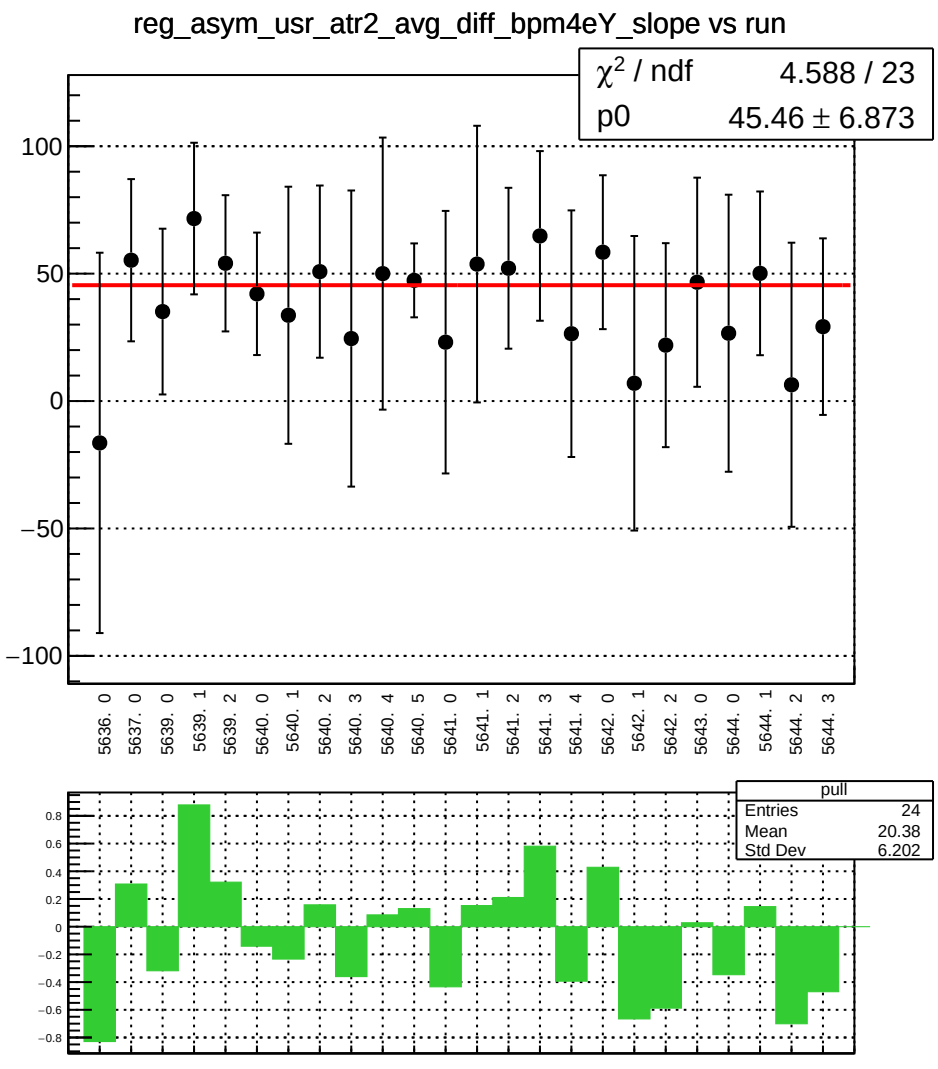

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 17.06 / 23
p0 −17.71 ± 0.1451
−16
−17
−18
−19
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 2791
Std Dev 0
2
1
0
−1
−2

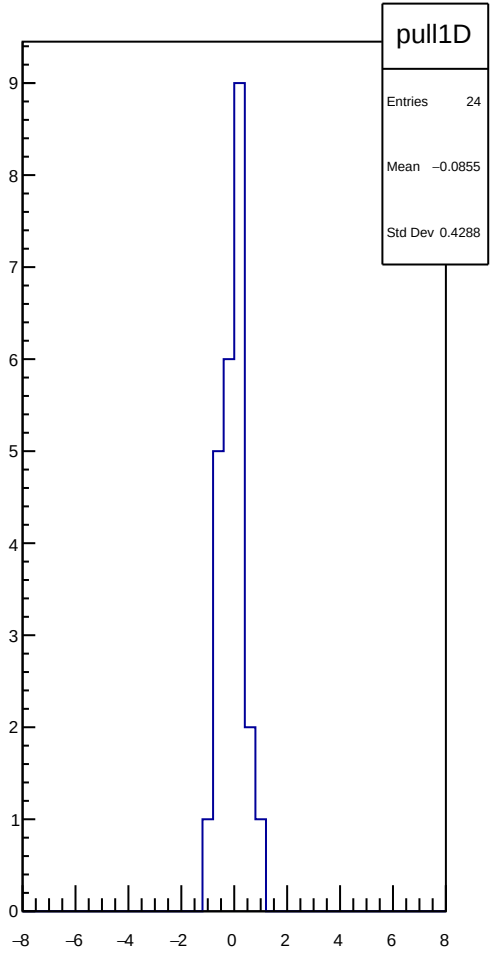

pull1D
Entries 24
Mean 0.0004381
Std Dev 0.8431
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

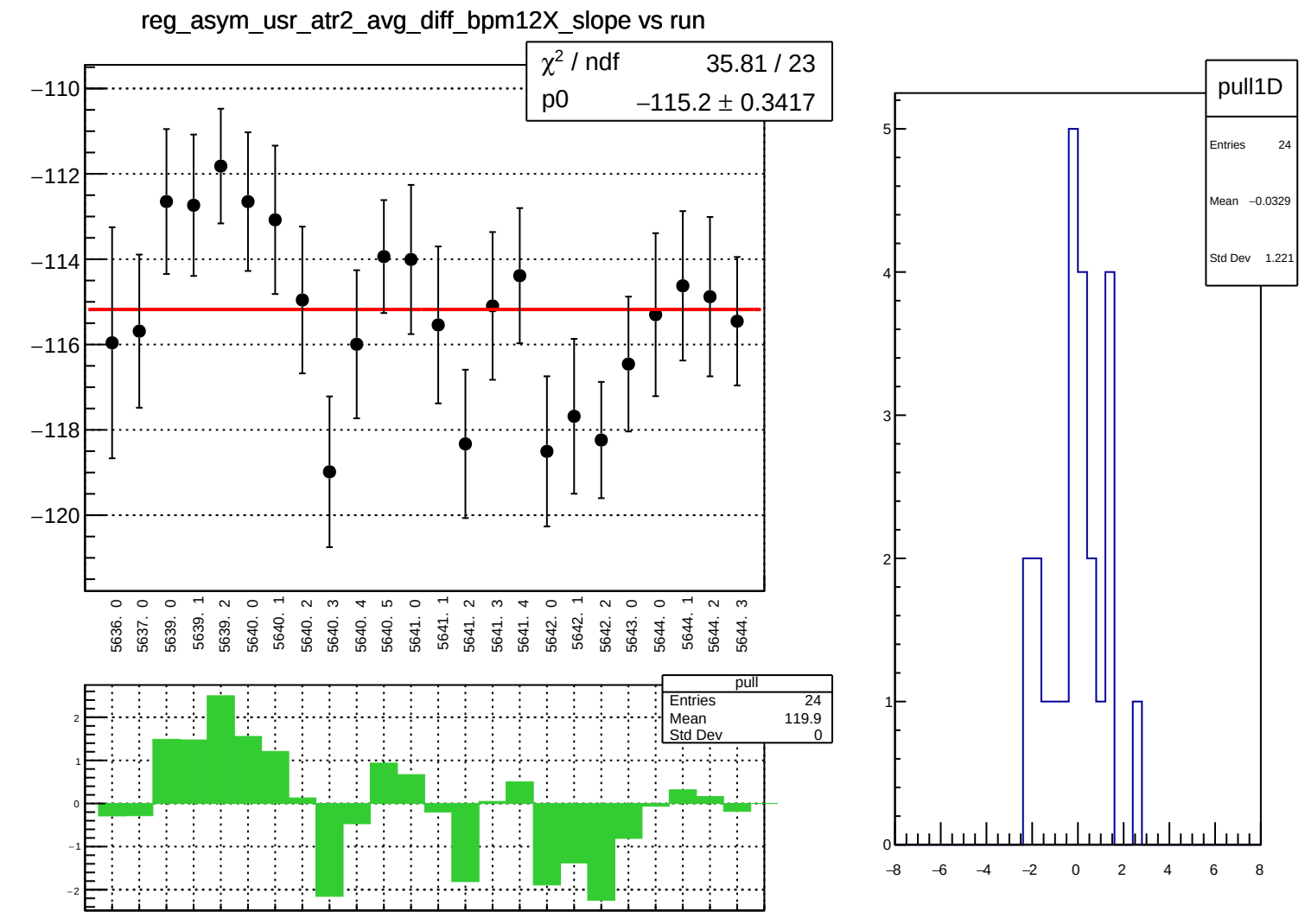

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 3.42 / 23
p0 −165 ± 9.695
−50
−100
−150
−200
−250
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −26.17
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 24
Mean 0.01915
Std Dev 0.377
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

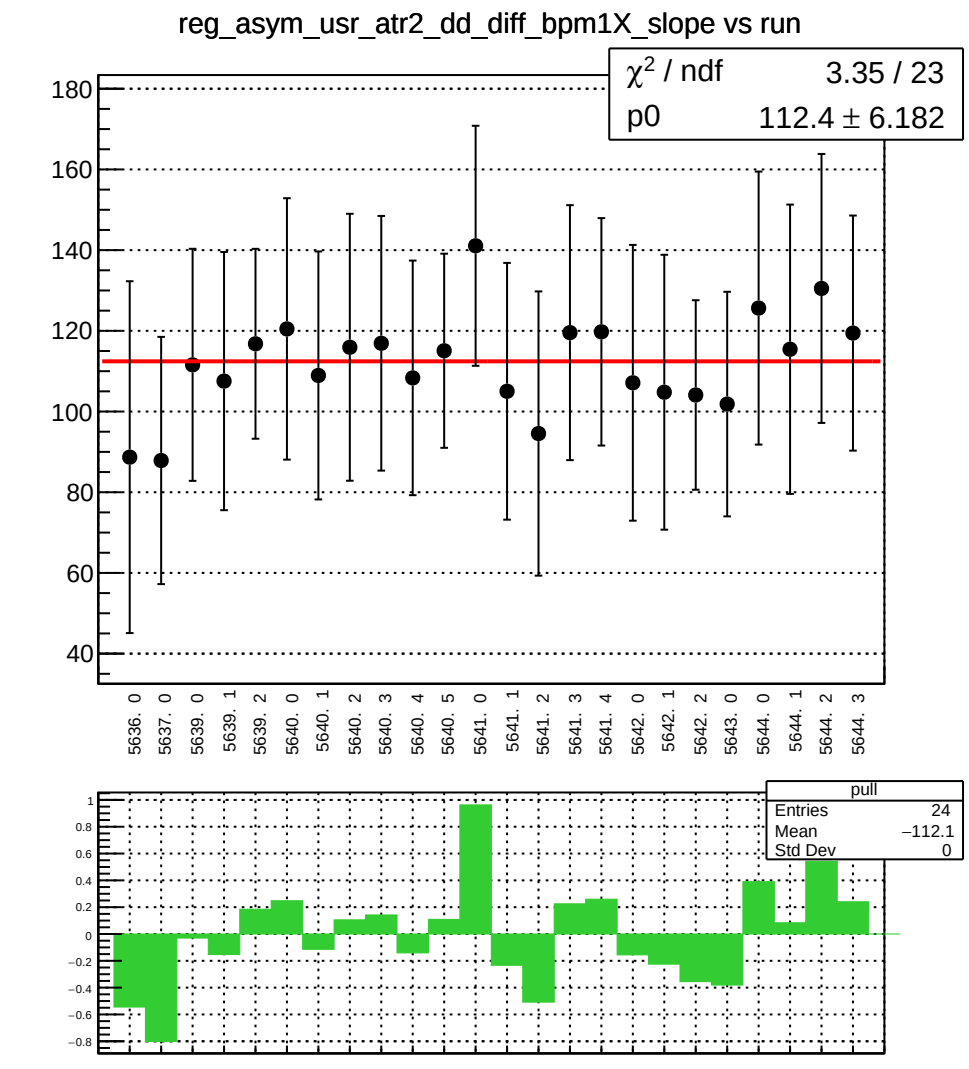

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.276 / 23
p0 6.911 ± 5.406
120
100
80
60
40
20
0
−20
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 20.56
Std Dev 4.501
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean 0.1084
Std Dev 0.4561
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

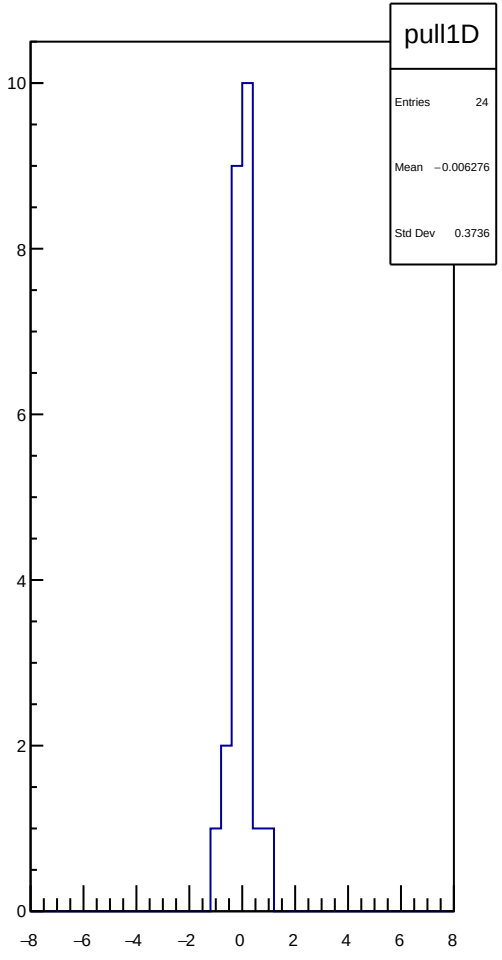

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.341 / 23
p0 251.6 ± 8.413
320
300
280
260
240
220
200
180
160
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −25.45
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 24
Mean −0.0188
Std Dev 0.3726
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

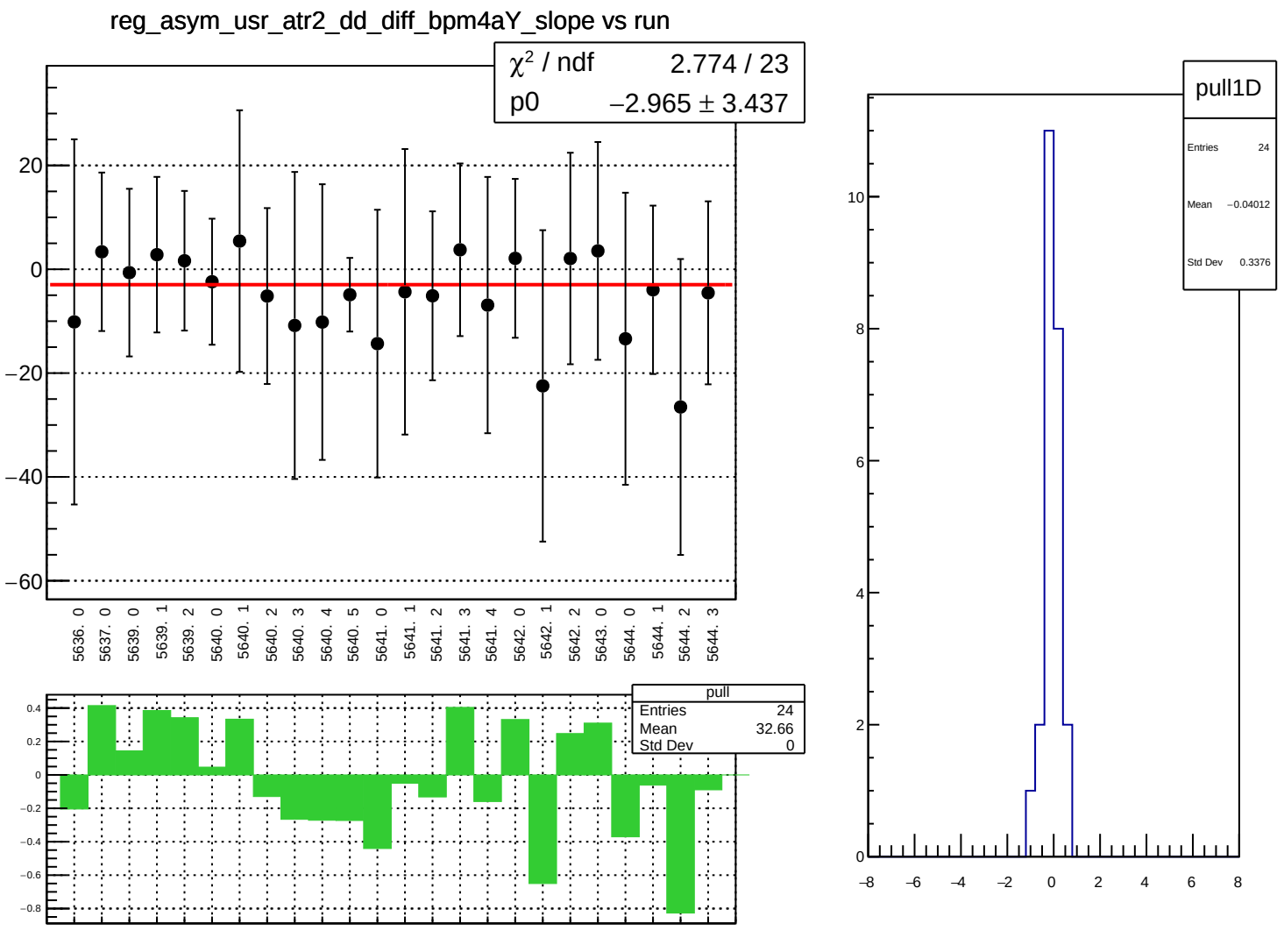

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.588 / 23
p0 45.46 ± 6.873
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 20.38
Std Dev 6.202
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

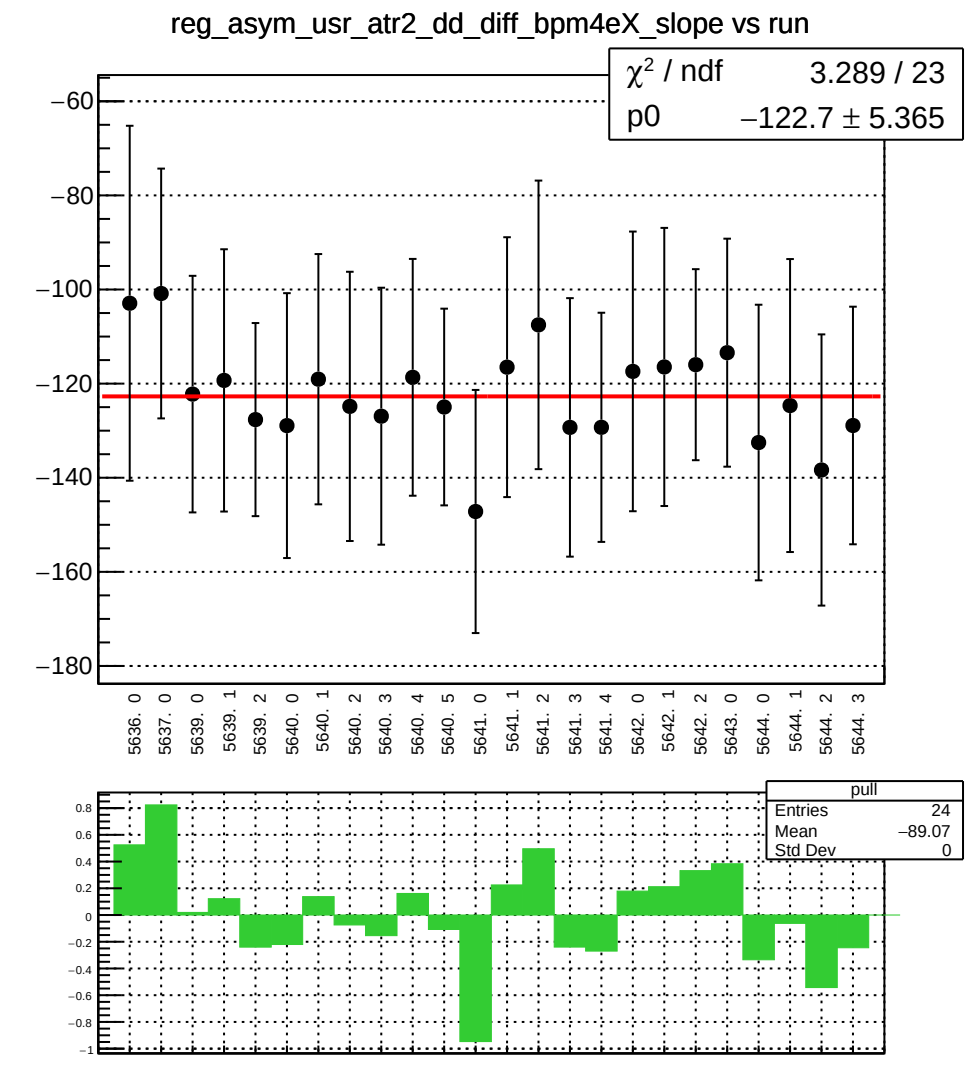

pull1D
Entries 24
Mean −0.0855
Std Dev 0.4288
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

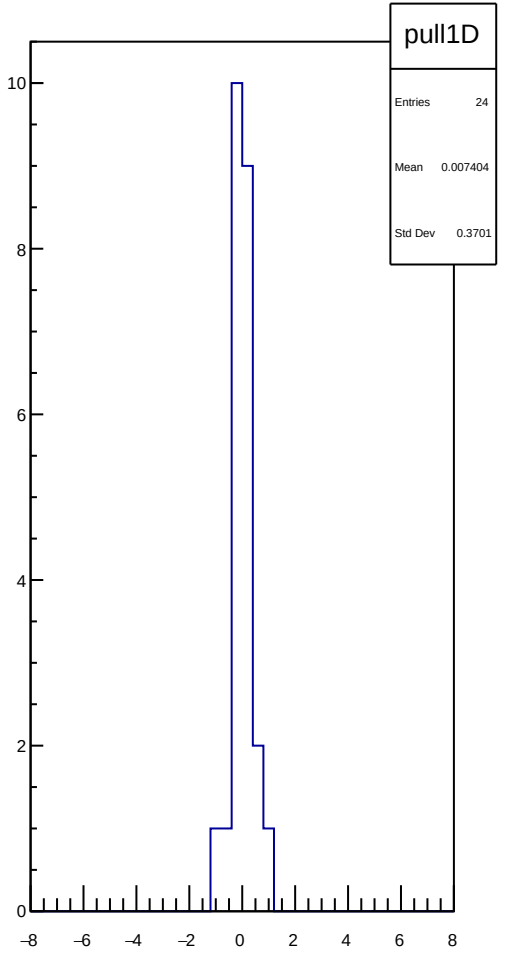

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 35.81 / 23
p0 −115.2 ± 0.3417
−110
−112
−114
−116
−118
−120
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 119.9
Std Dev 0
pull1D
Entries 24
Mean −0.0329
Std Dev 1.221

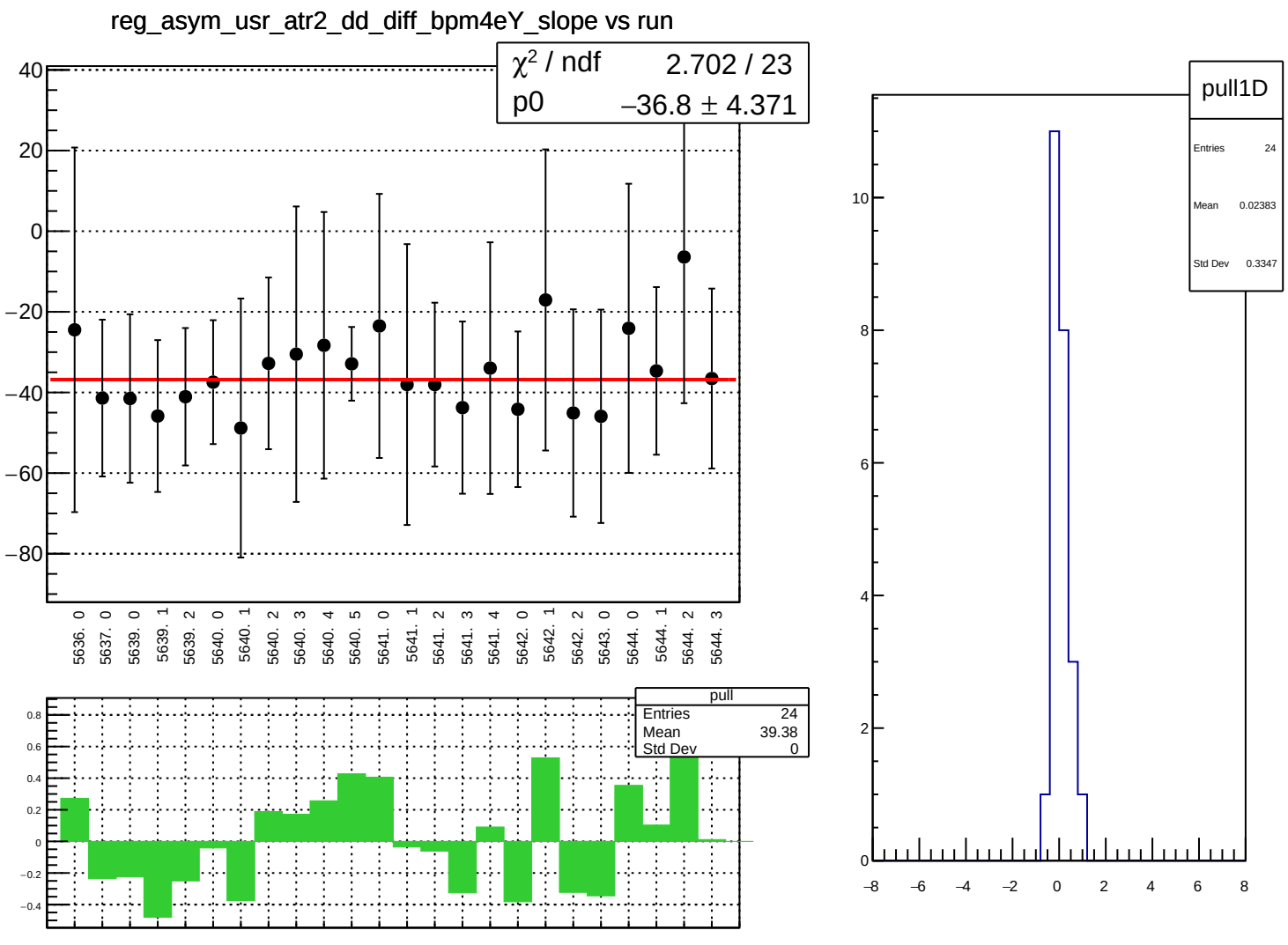

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 3.35 / 23
p0 112.4 ± 6.182
180
160
140
120
100
80
60
40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −112.1
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

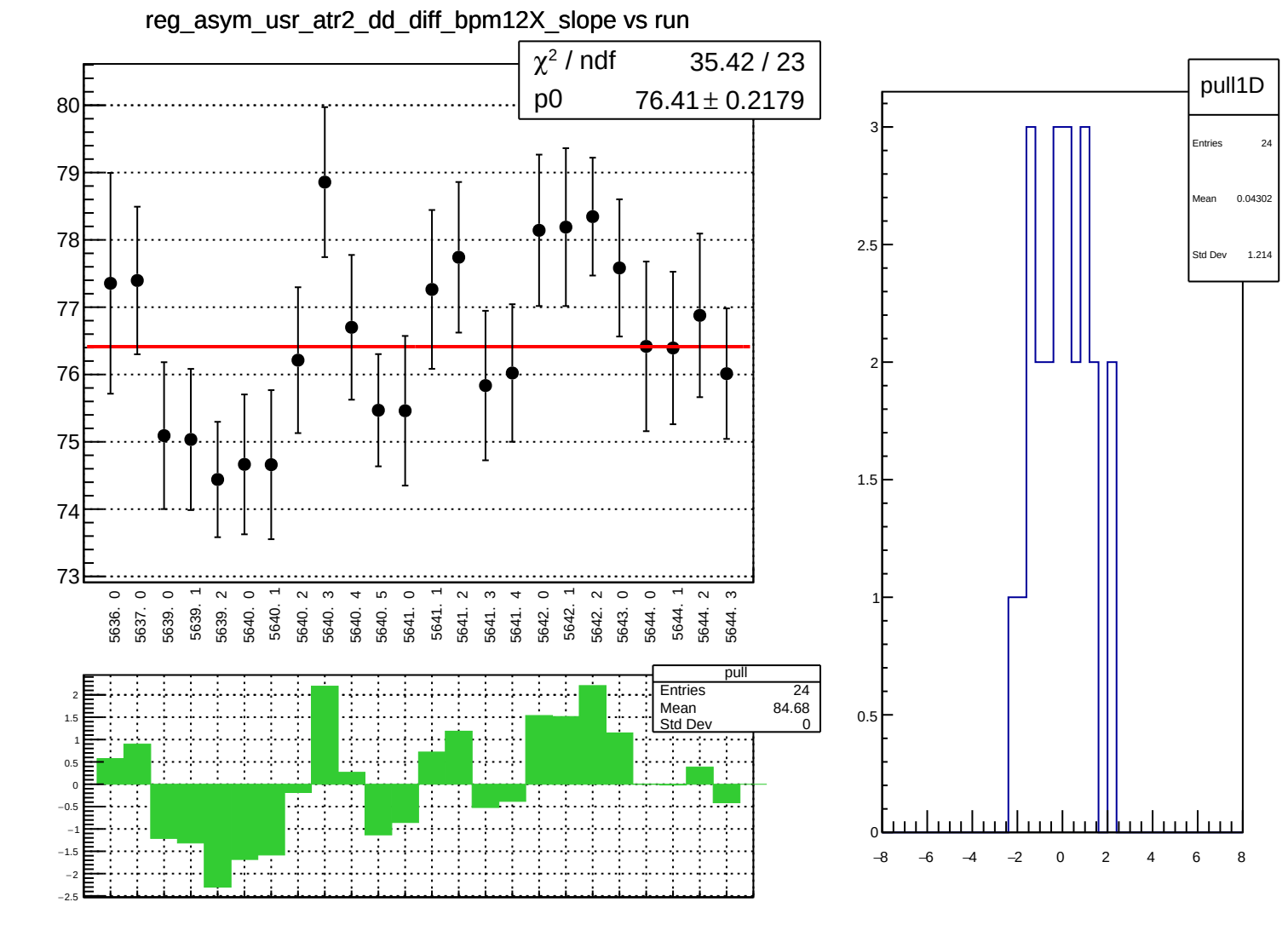

pull1D
Entries 24
Mean −0.006276
Std Dev 0.3736
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

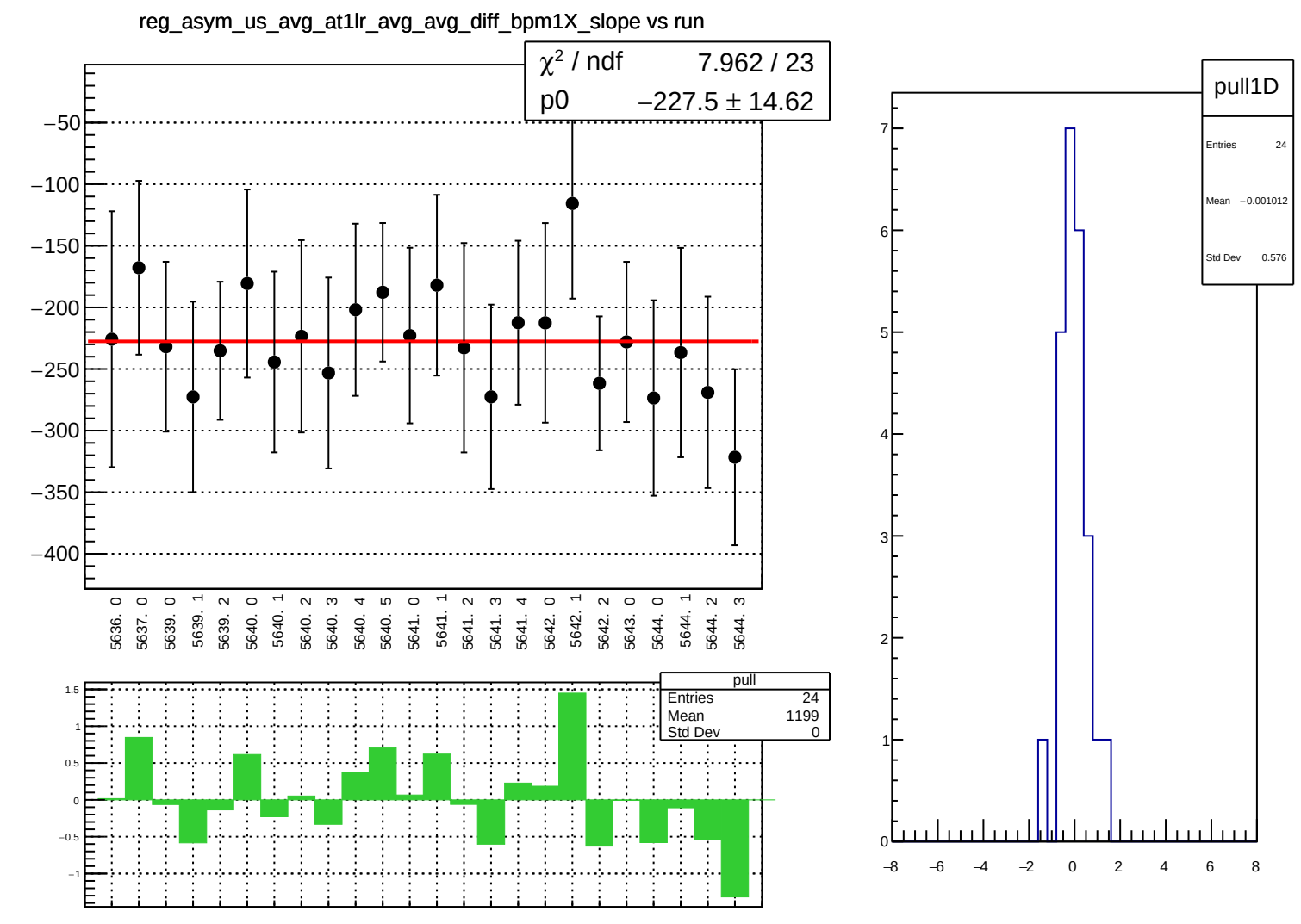

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.774 / 23
p0 −2.965 ± 3.437
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 32.66
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean −0.04012
Std Dev 0.3376
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

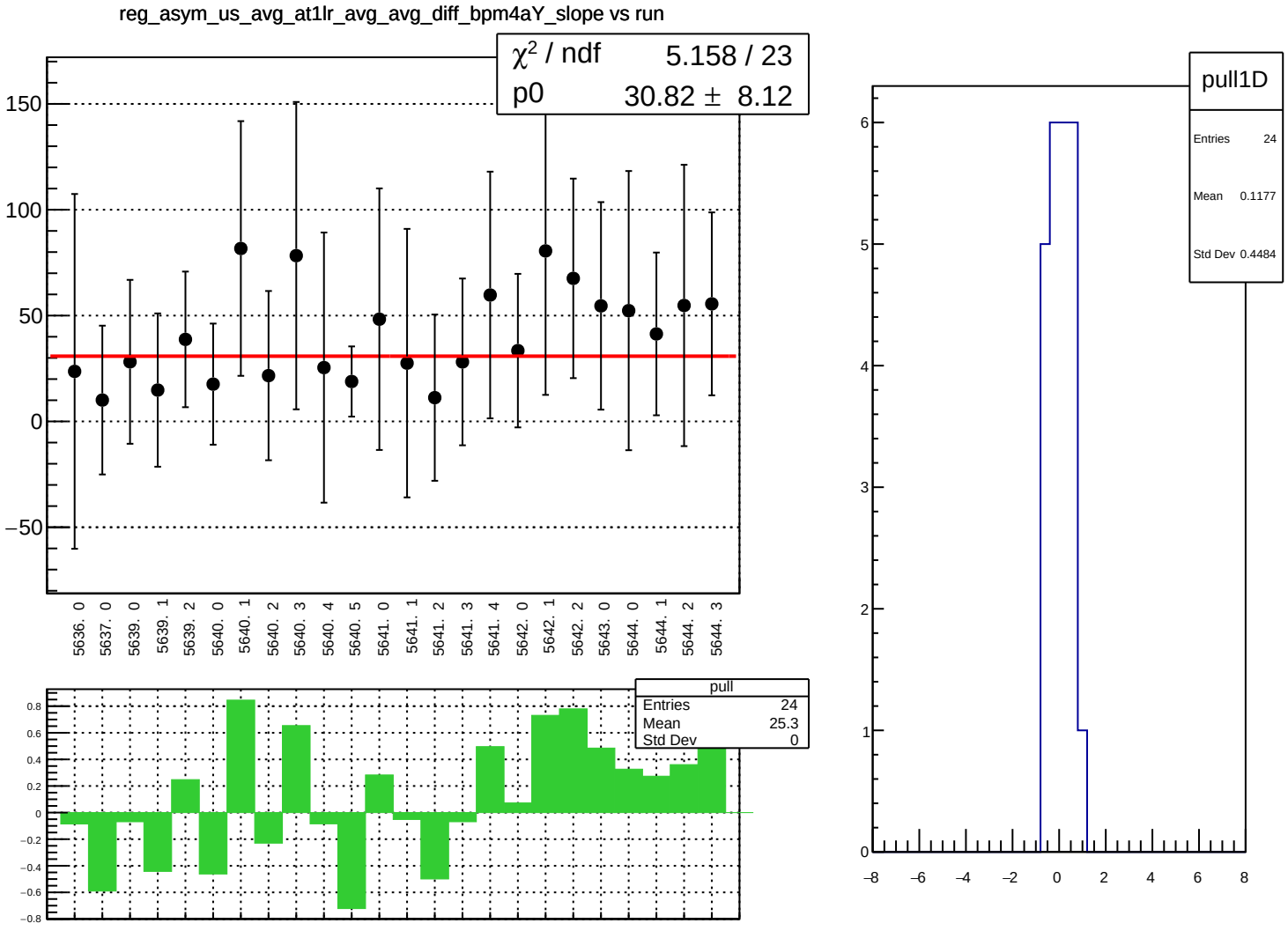

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.289 / 23
p0 −122.7 ± 5.365
−60
−80
−100
−120
−140
−160
−180
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −89.07
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

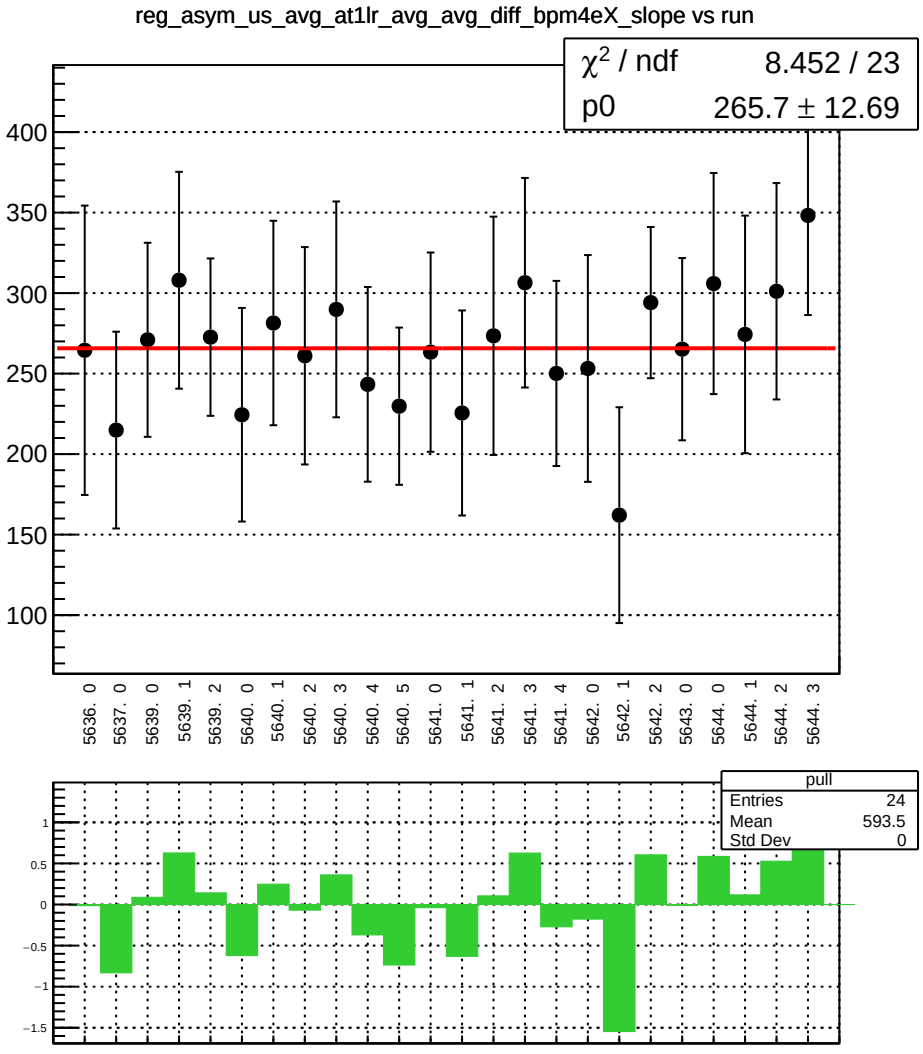

pull1D
Entries 24
Mean 0.007404
Std Dev 0.3701
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

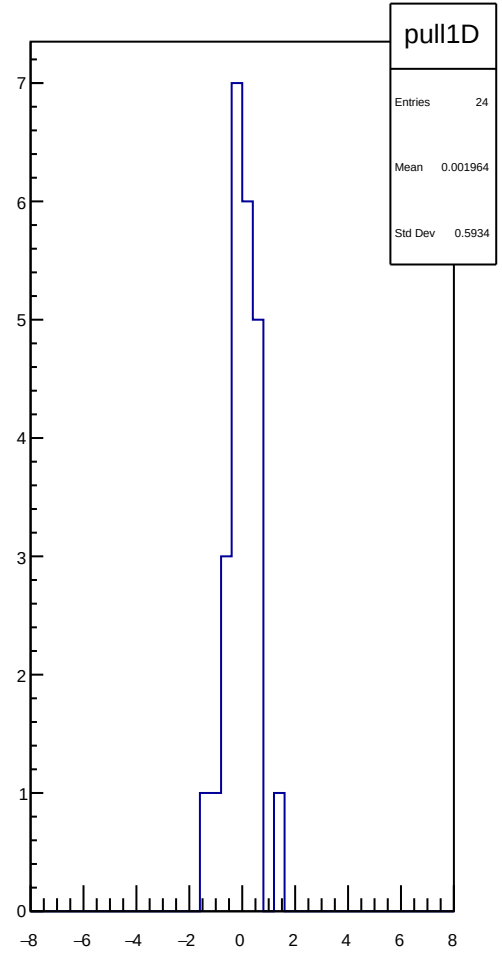

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.702 / 23
p0 −36.8 ± 4.371
40
20
0
−20
−40
−60
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 39.38
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 24
Mean 0.02383
Std Dev 0.3347
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

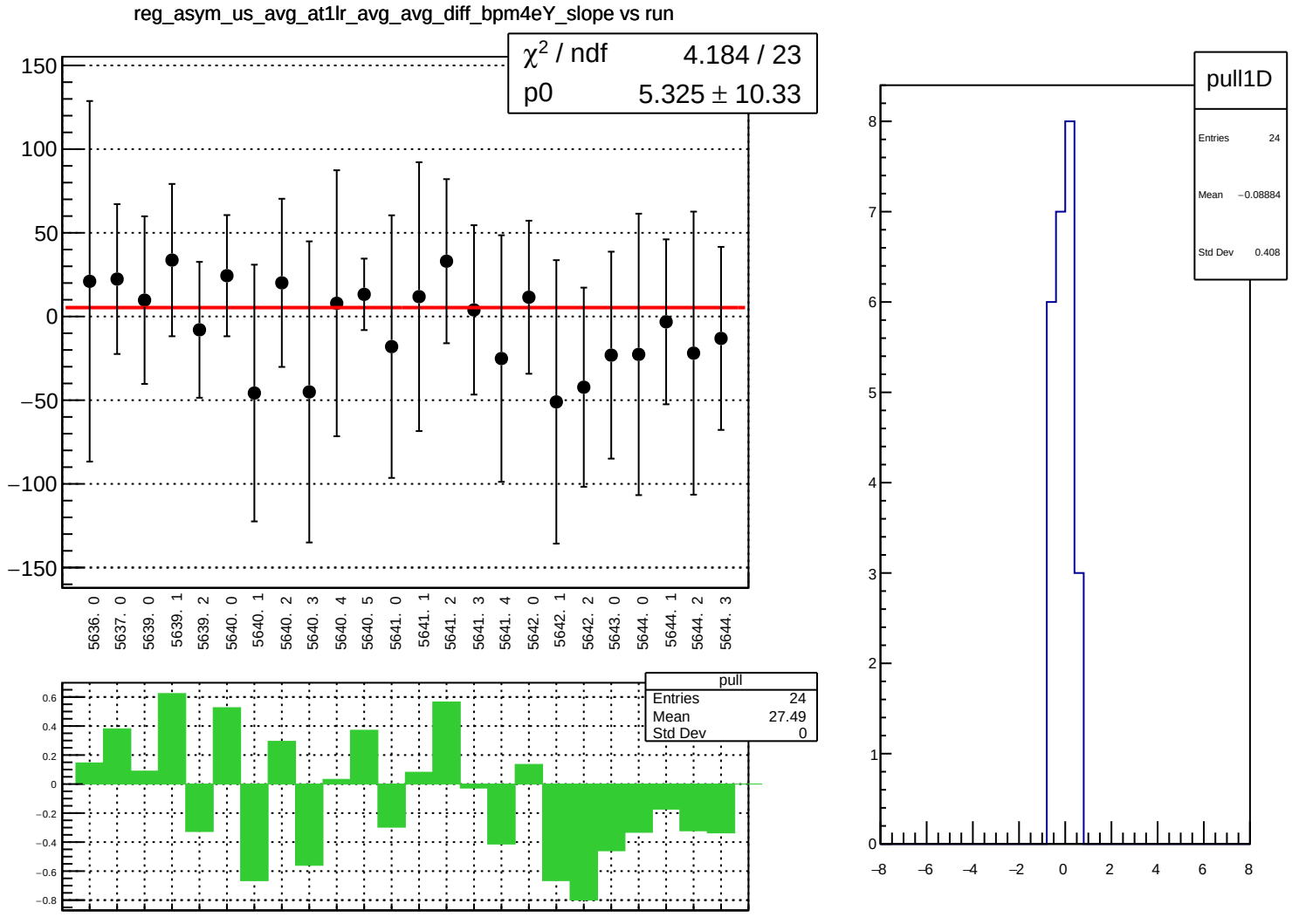

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 35.42 / 23
p0 76.41 ± 0.2179
80
79
78
77
76
75
74
73
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 84.68
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean 0.04302
Std Dev 1.214
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

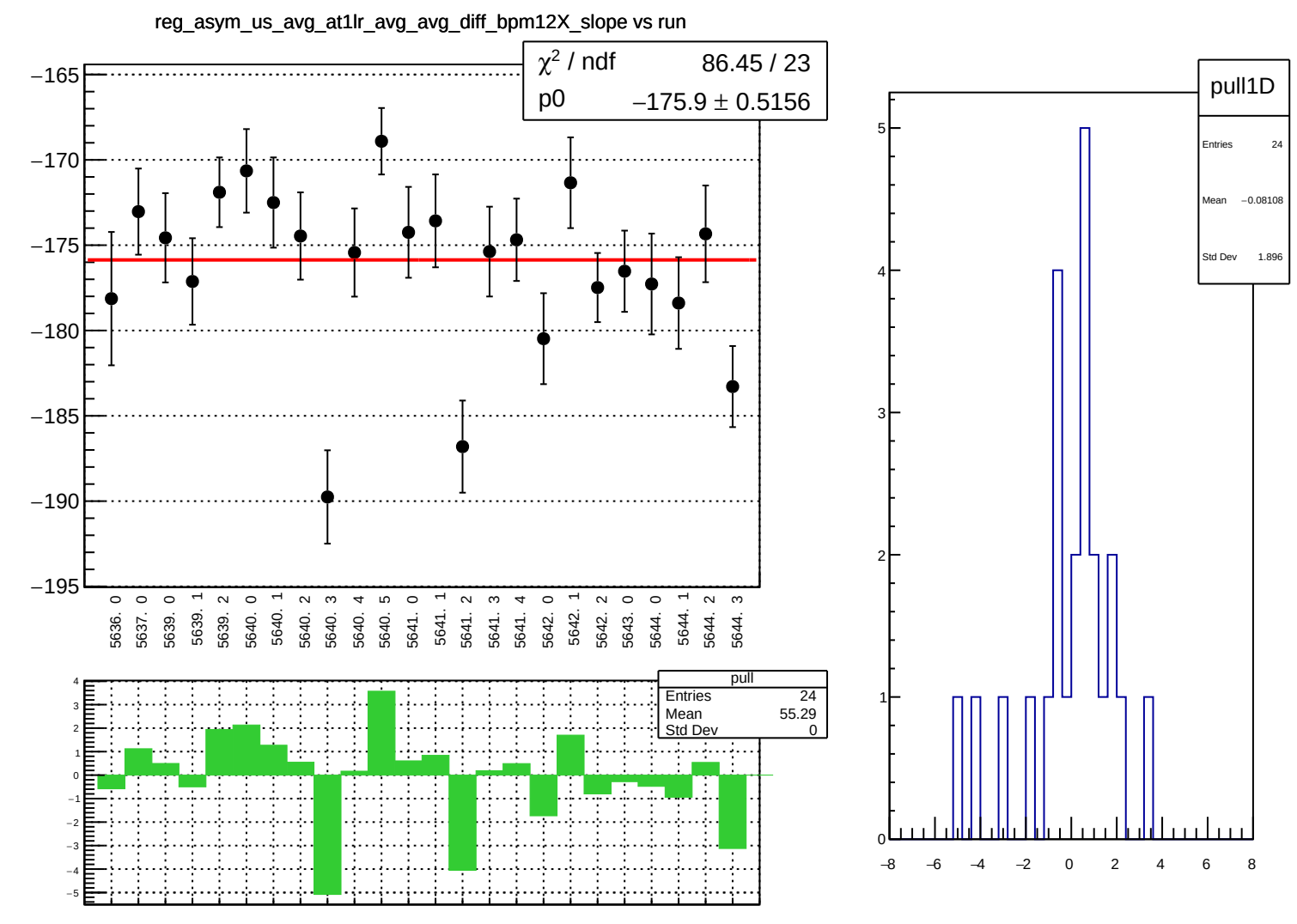

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 7.962 / 23
p0 −227.5 ± 14.62
−50
−100
−150
−200
−250
−300
−350
−400
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 1199
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.001012
Std Dev 0.576
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

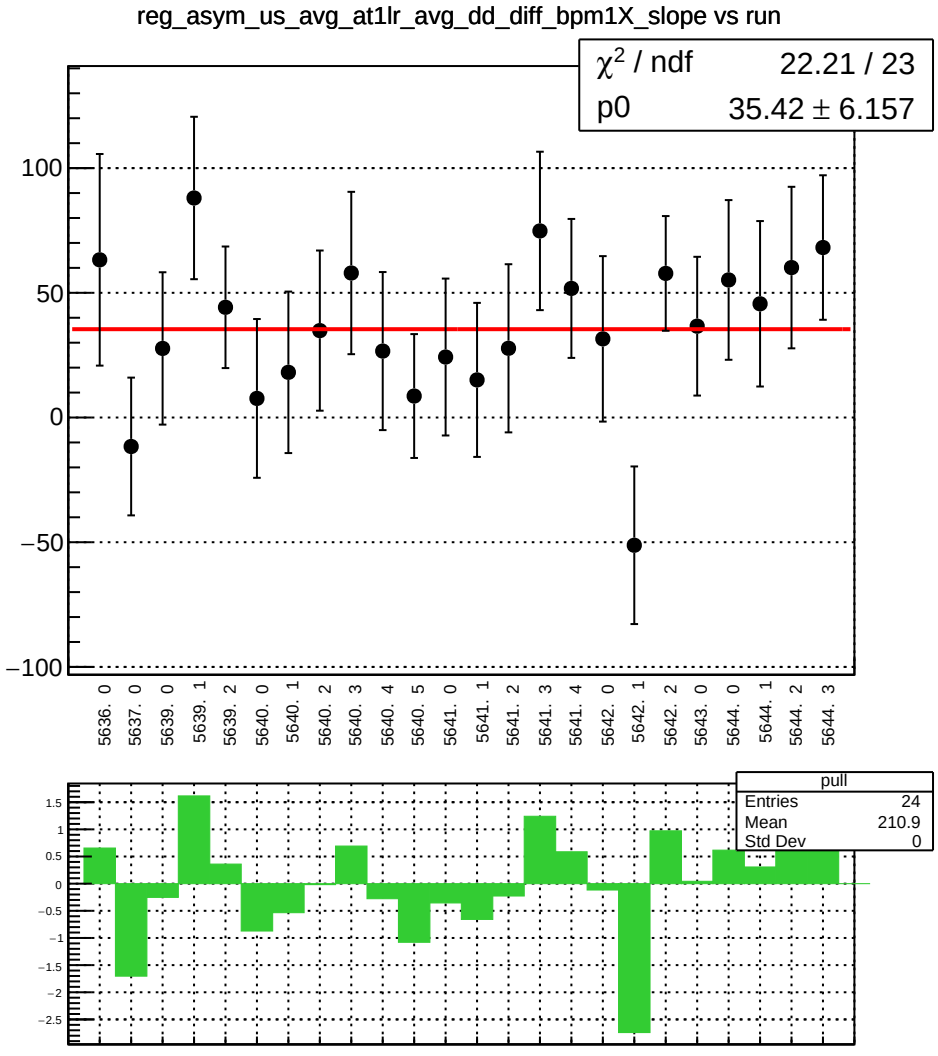

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.158 / 23
p0 30.82 ± 8.12
150
100
50
0
−50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 25.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean 0.1177
Std Dev 0.4484
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

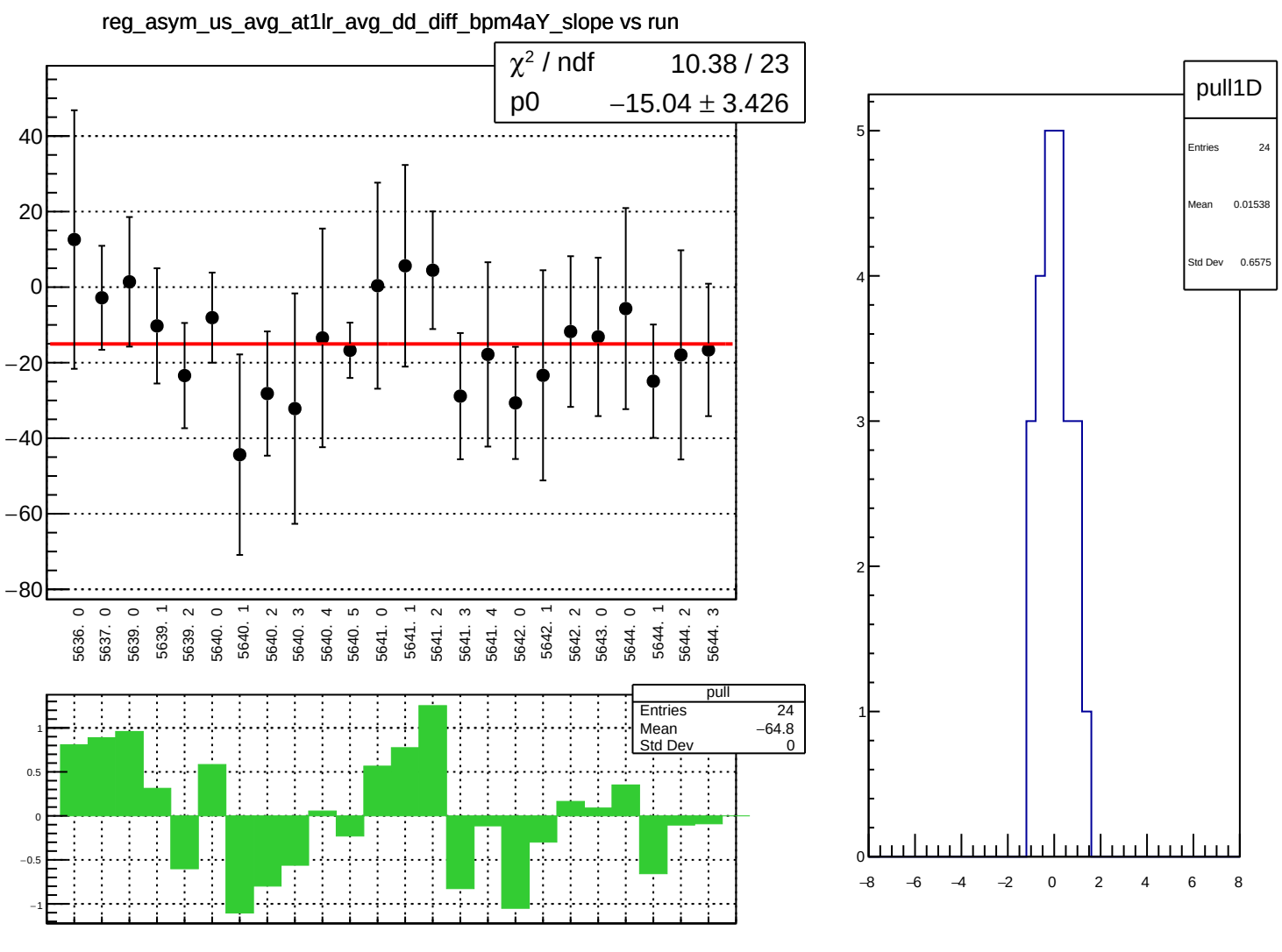

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.452 / 23
p0 265.7 ± 12.69
400
350
300
250
200
150
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 593.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

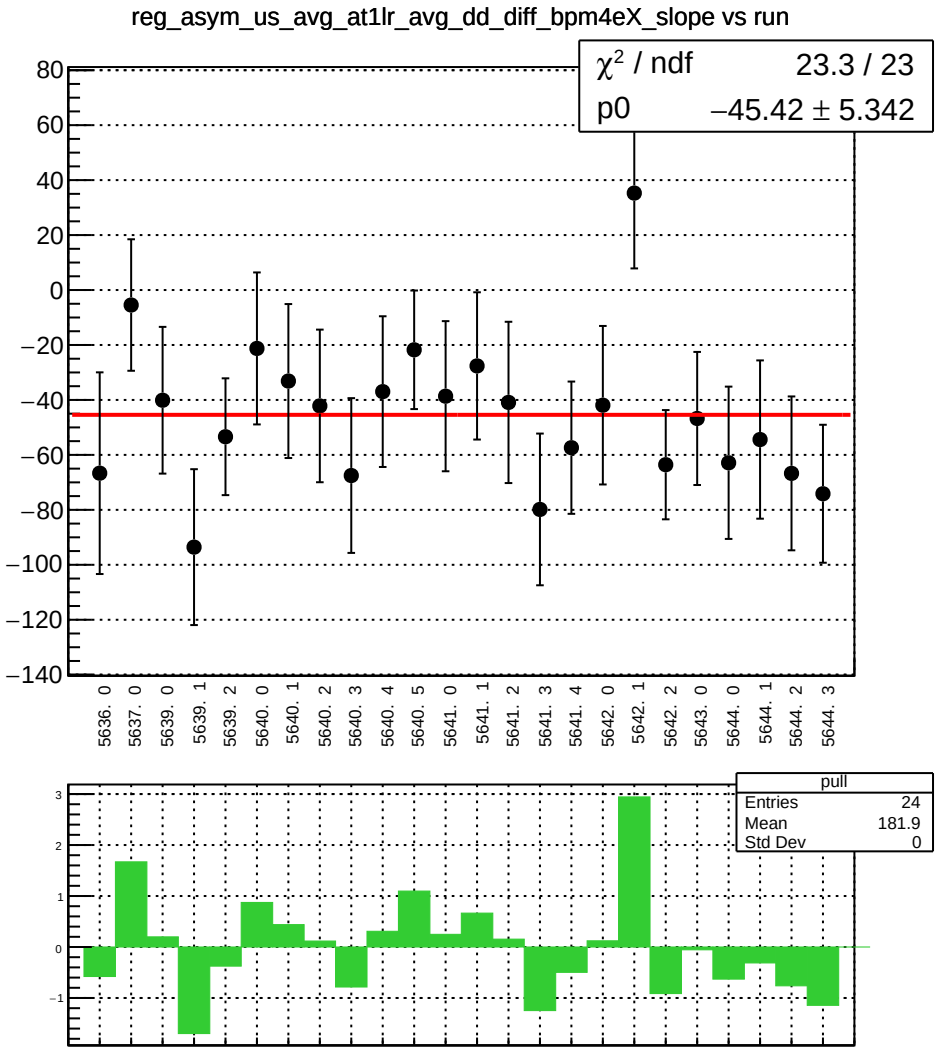

pull1D
Entries 24
Mean 0.001964
Std Dev 0.5934
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

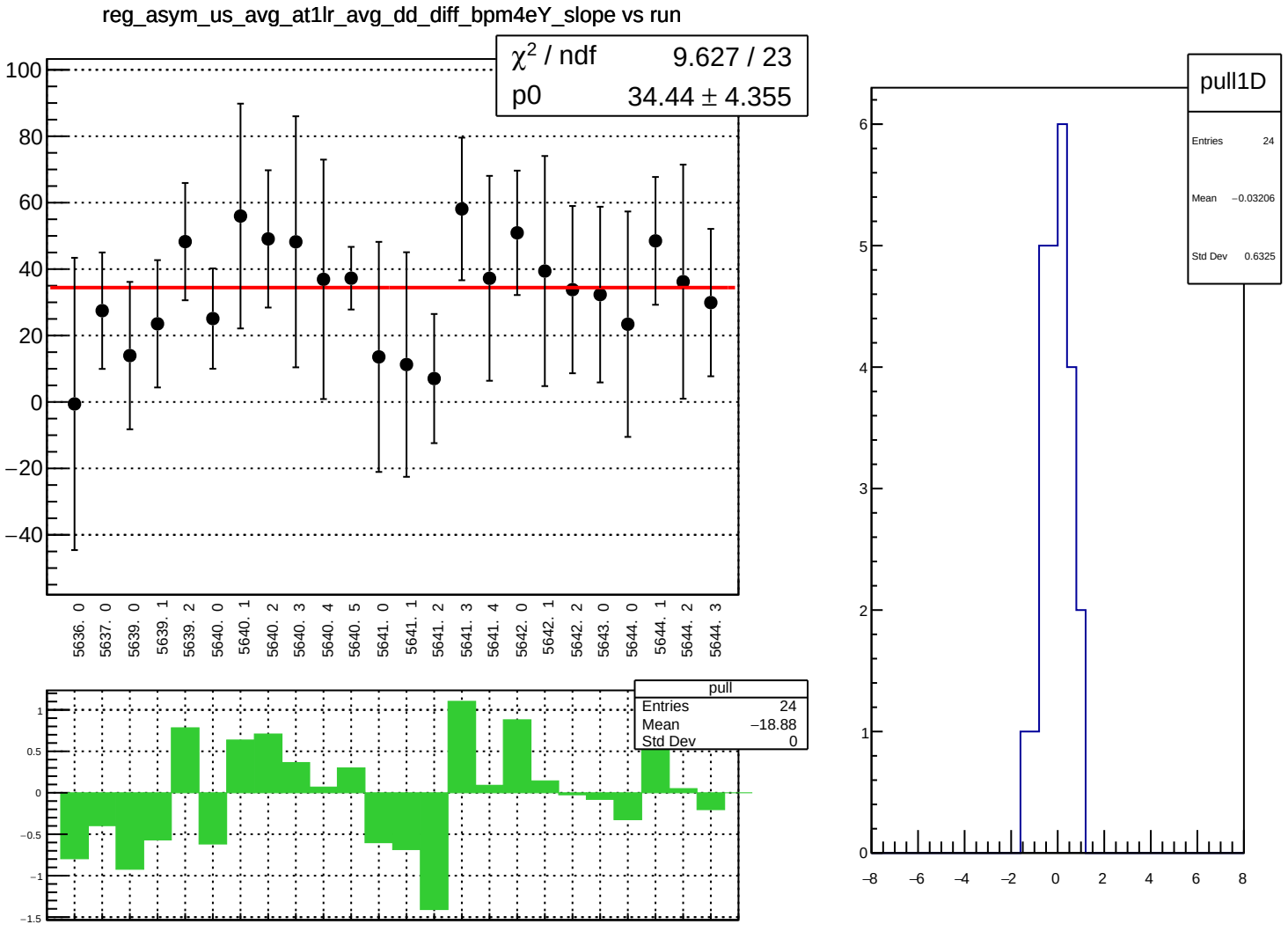

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.184 / 23
p0 5.325 ± 10.33
150
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 27.49
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean −0.08884
Std Dev 0.408
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

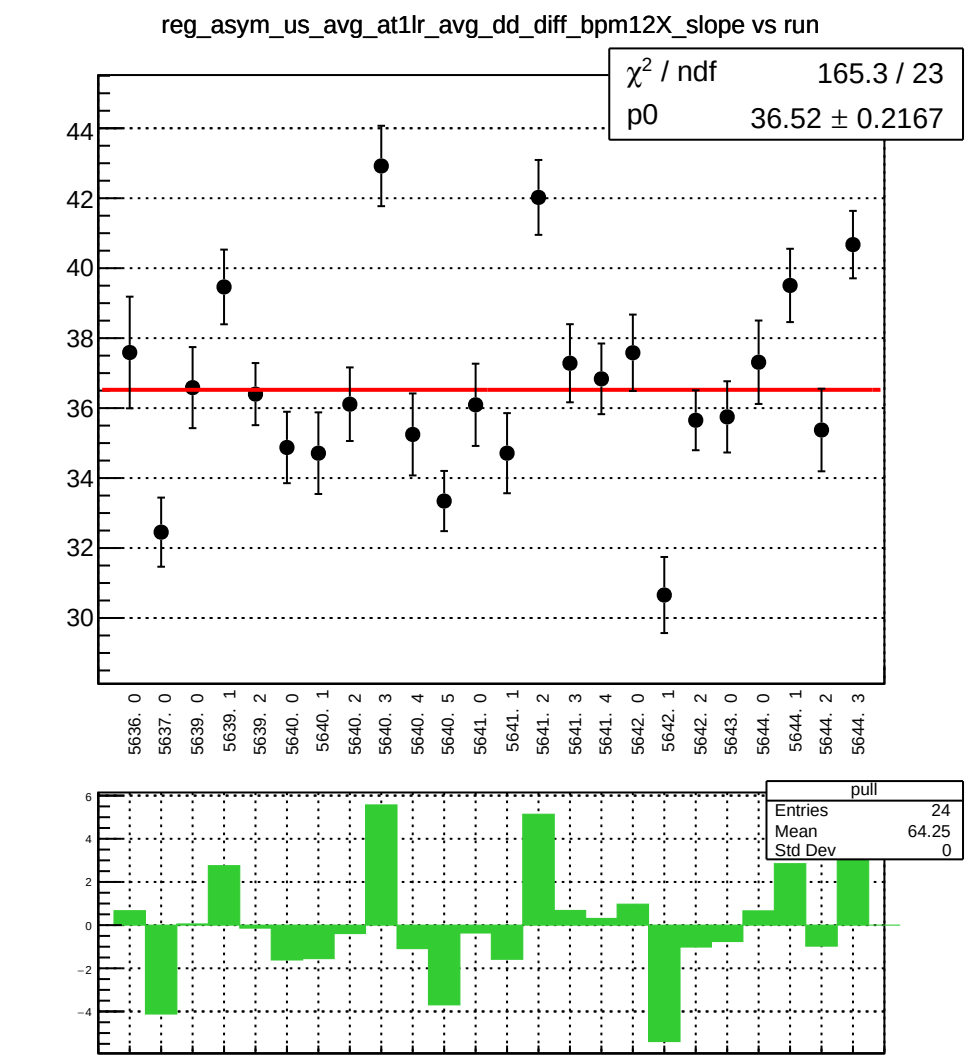

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 86.45 / 23
p0 −175.9 ± 0.5156
−165
−170
−175
−180
−185
−190
−195
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 55.29
Std Dev 0
pull1D
Entries 24
Mean −0.08108
Std Dev 1.896

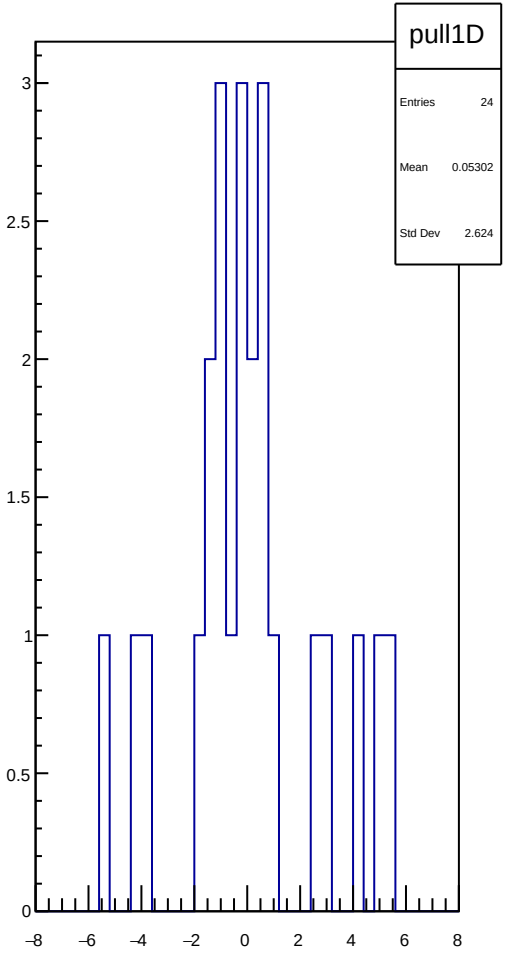

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 22.21 / 23
p0 35.42 ± 6.157
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 210.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 24
Mean 0.006233
Std Dev 0.9619
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

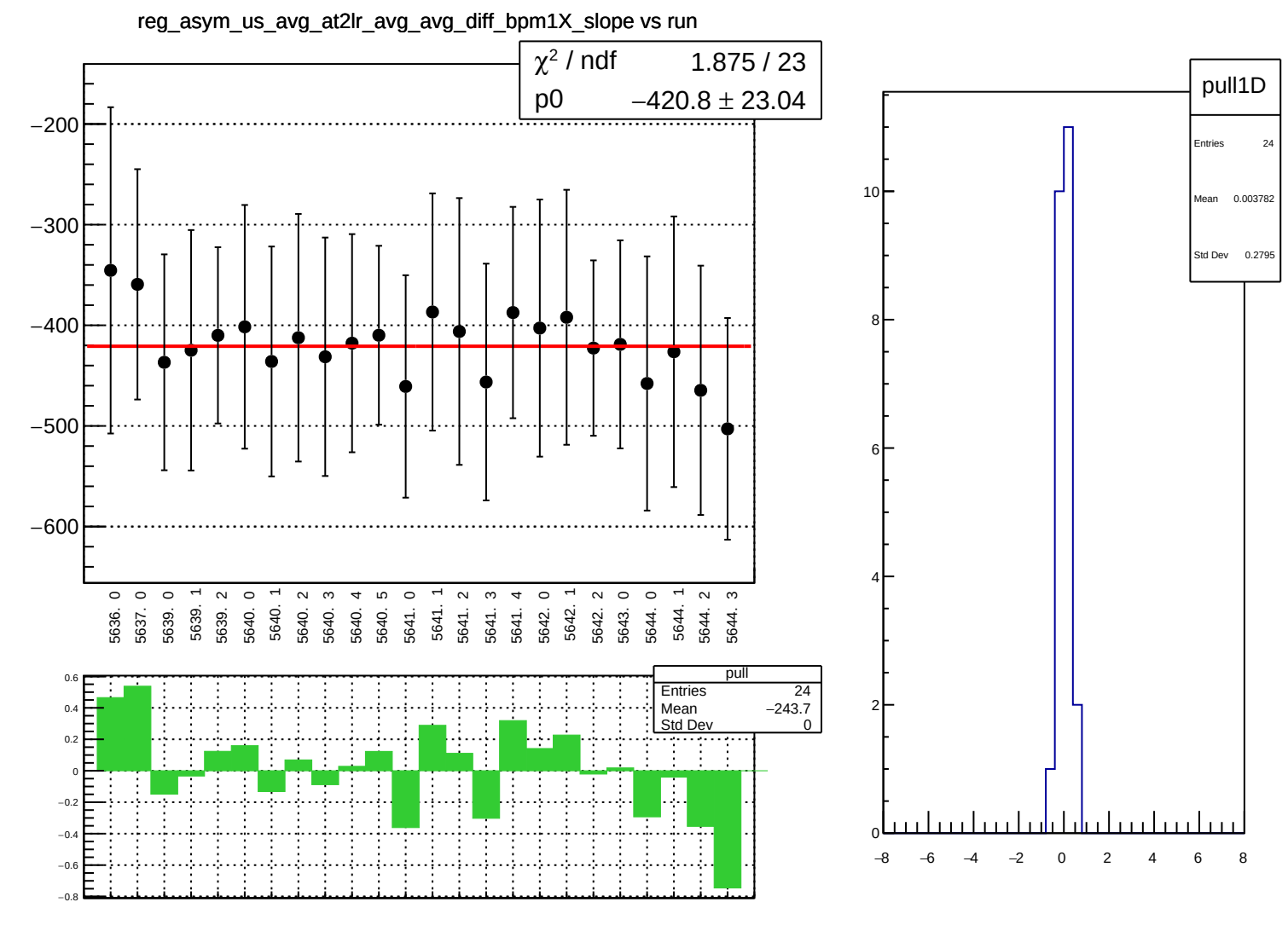

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.38 / 23
p0 −15.04 ± 3.426
40
20
0
−20
−40
−60
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −64.8
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.01538
Std Dev 0.6575
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

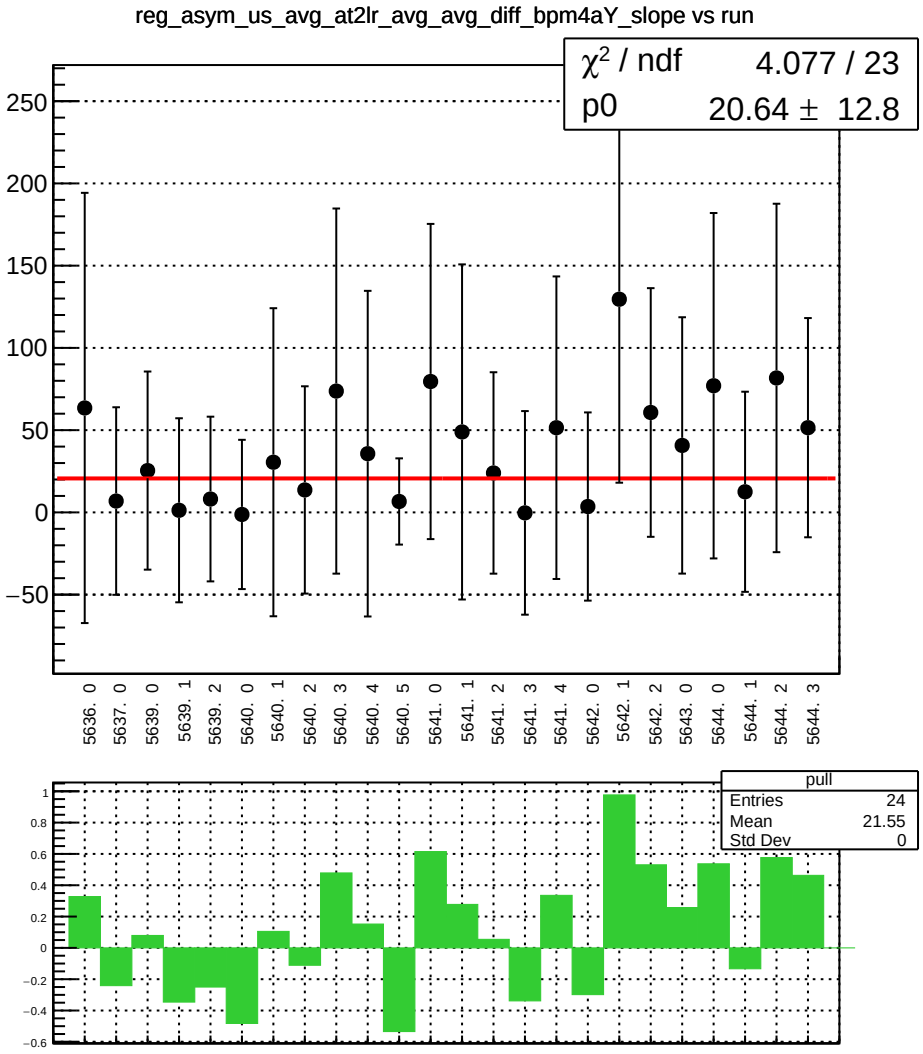

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.3 / 23
p0 −45.42 ± 5.342
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 181.9
Std Dev 0
3
2
1
0
−1
pull1D
Entries 24
Mean −0.006699
Std Dev 0.9852
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

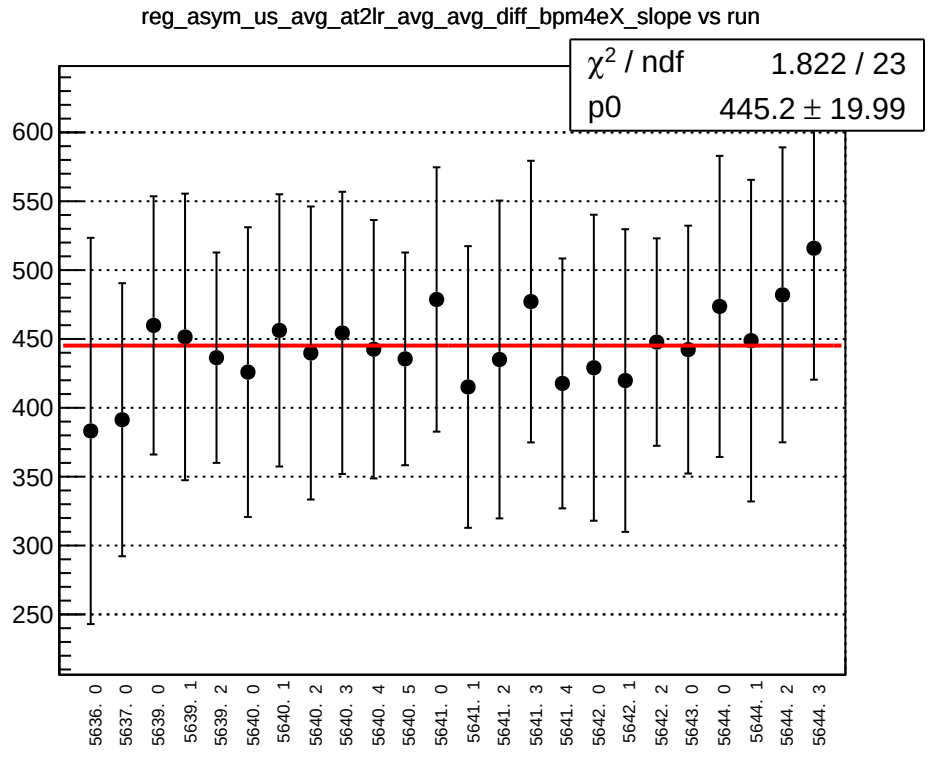

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.627 / 23
p0 34.44 ± 4.355
100
80
60
40
20
0
−20
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −18.88
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.03206
Std Dev 0.6325
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

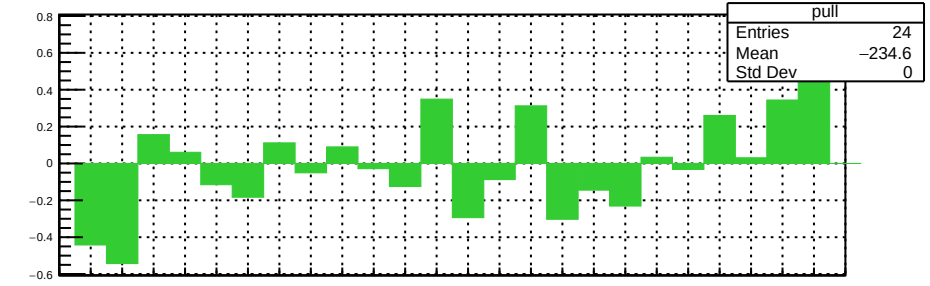

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 165.3 / 23
p0 36.52 ± 0.2167
44
42
40
38
36
34
32
30
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 64.25
Std Dev 0
6
4
2
0
−2
−4

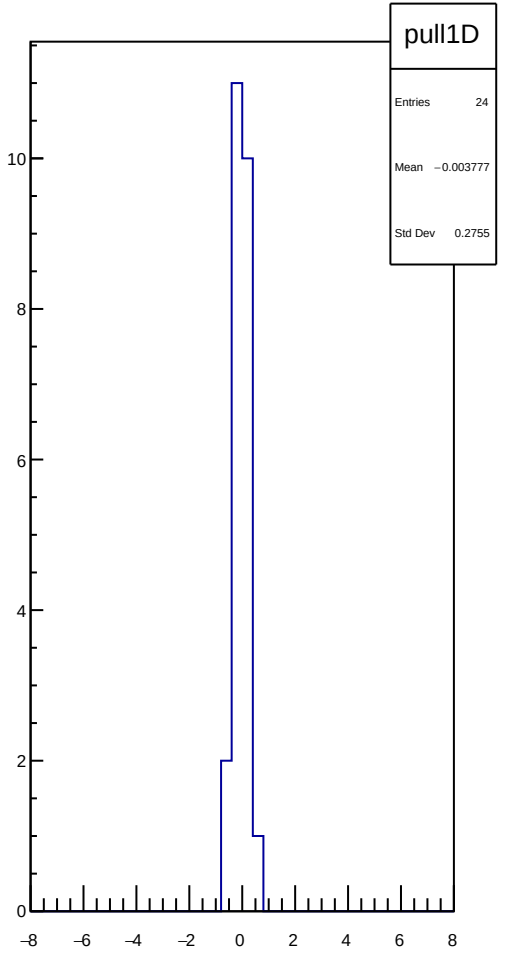

pull1D
Entries 24
Mean 0.05302
Std Dev 2.624
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

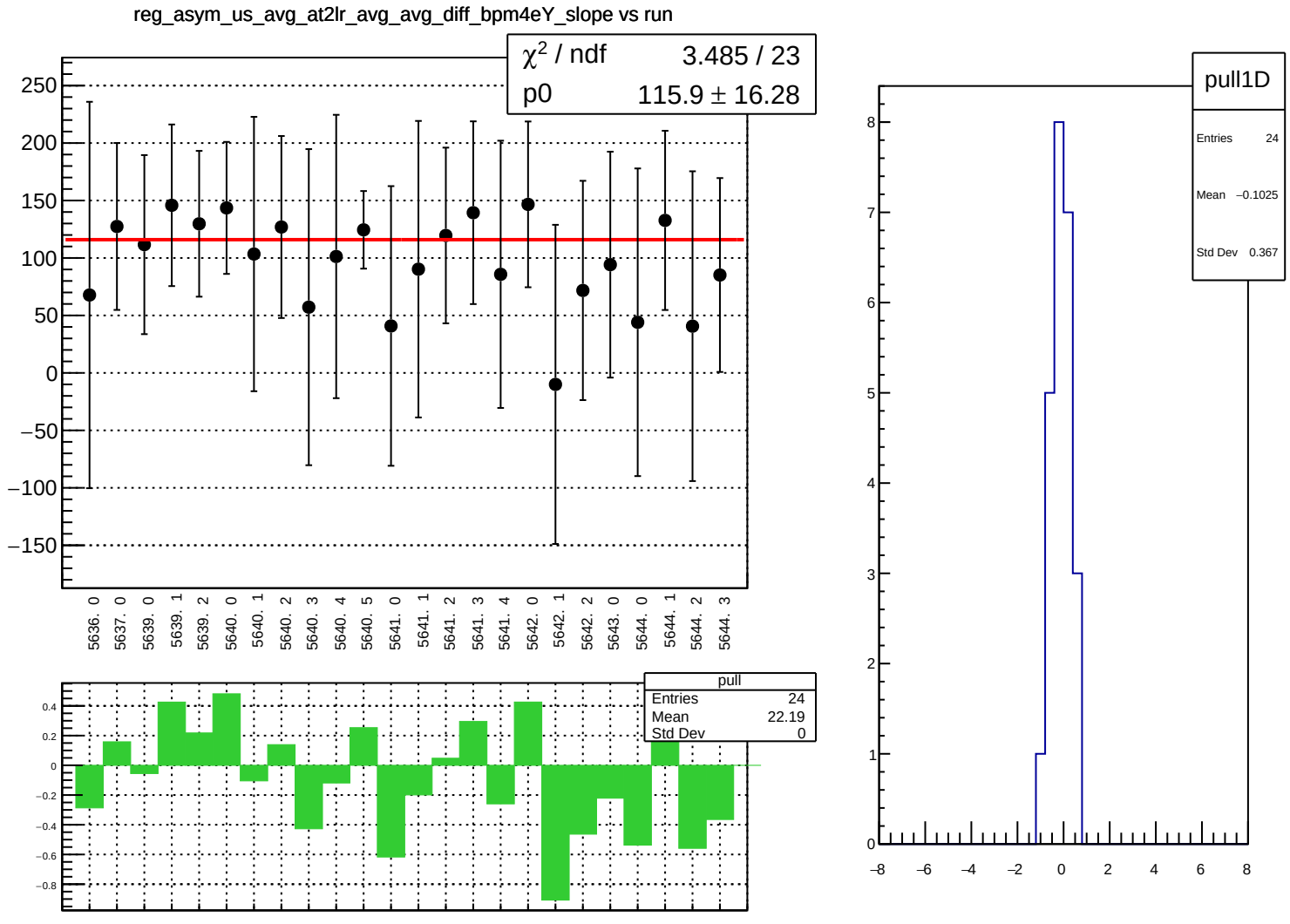

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 1.875 / 23
p0 −420.8 ± 23.04
−200
−300
−400
−500
−600
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −243.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean 0.003782
Std Dev 0.2795
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

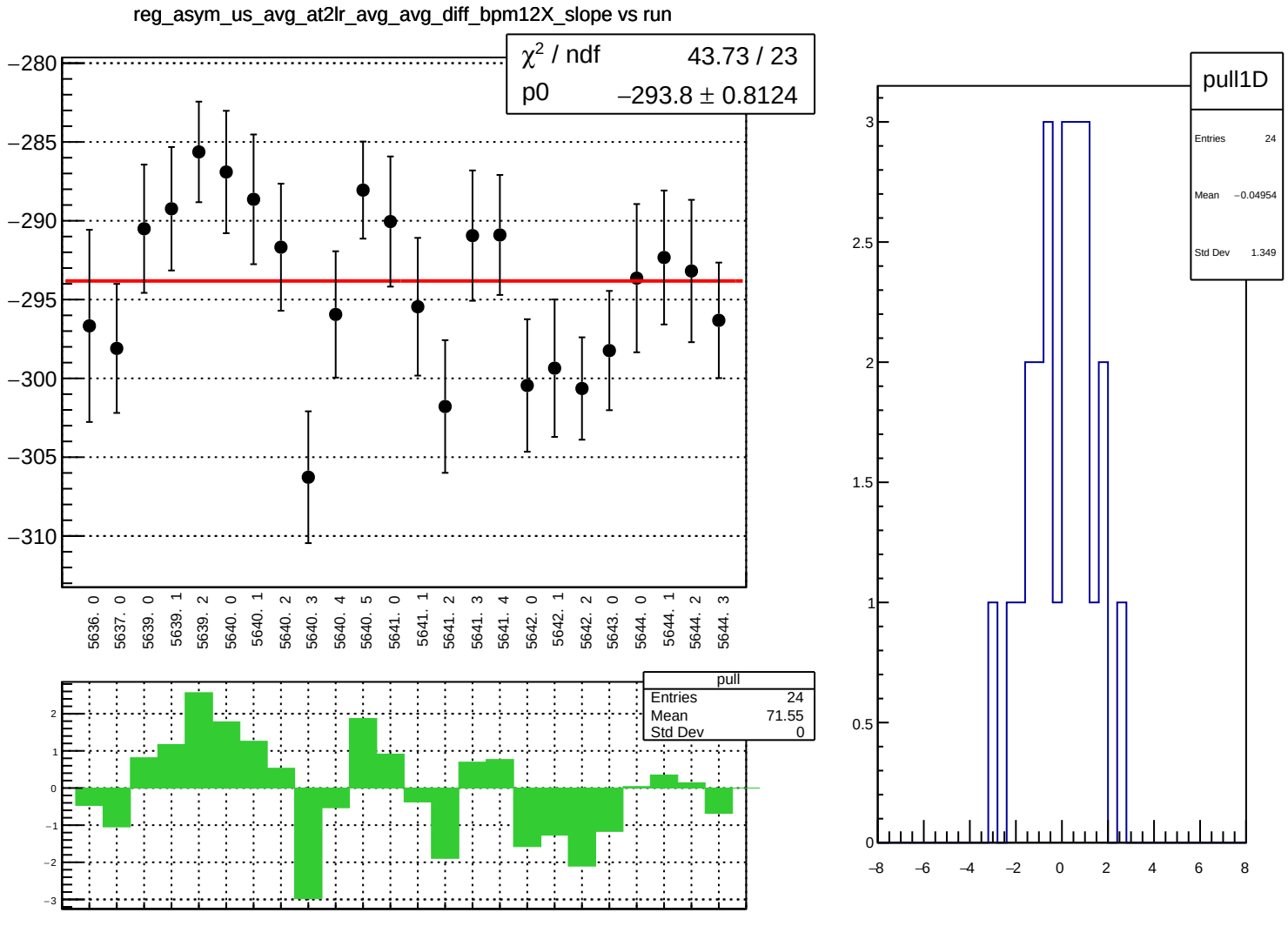

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.077 / 23
p0 20.64 ± 12.8
250
200
150
100
50
0
−50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 21.55
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 24
Mean 0.1263
Std Dev 0.3923
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

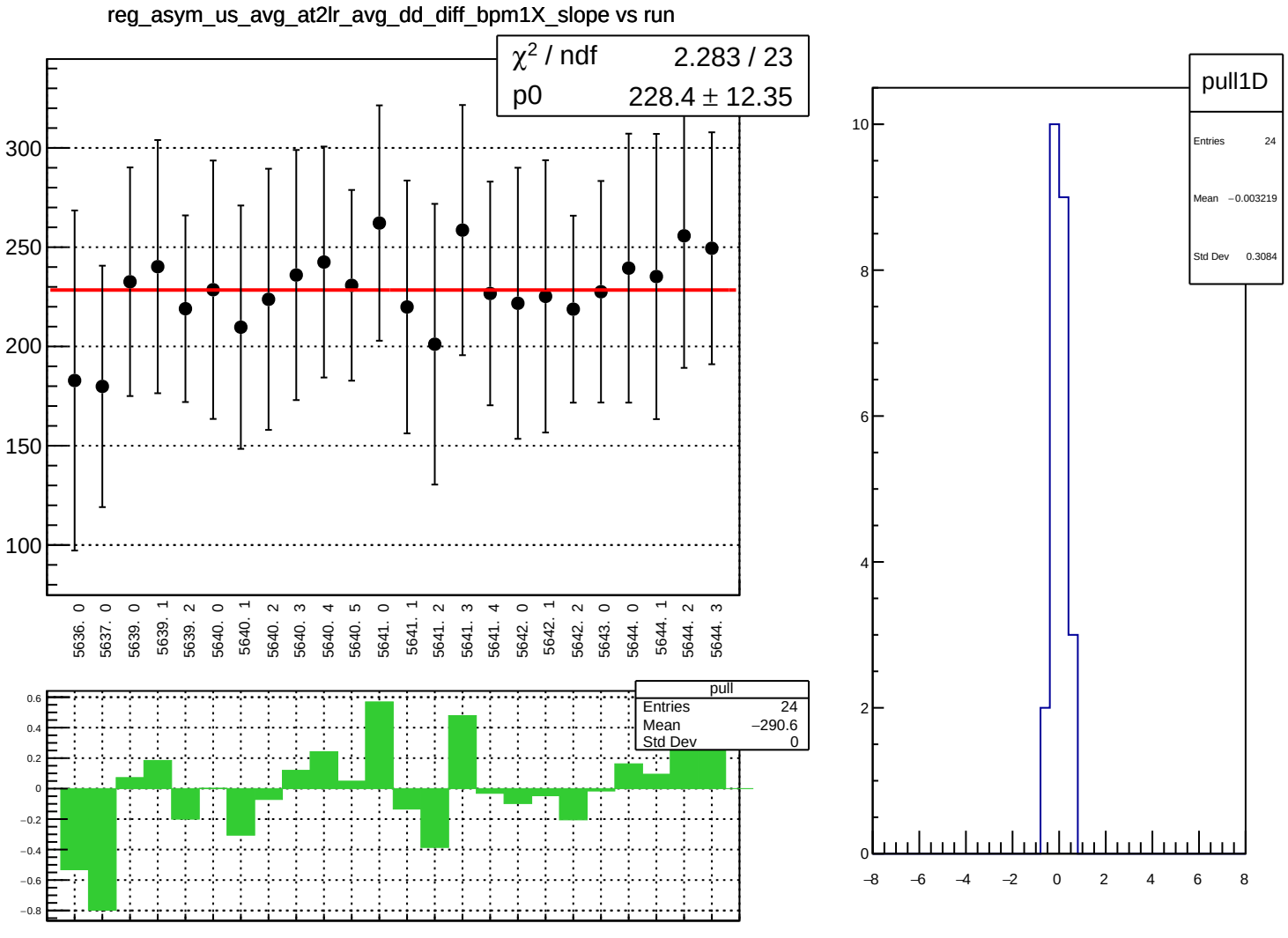

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.822 / 23
p0 445.2 ± 19.99
600
550
500
450
400
350
300
250
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

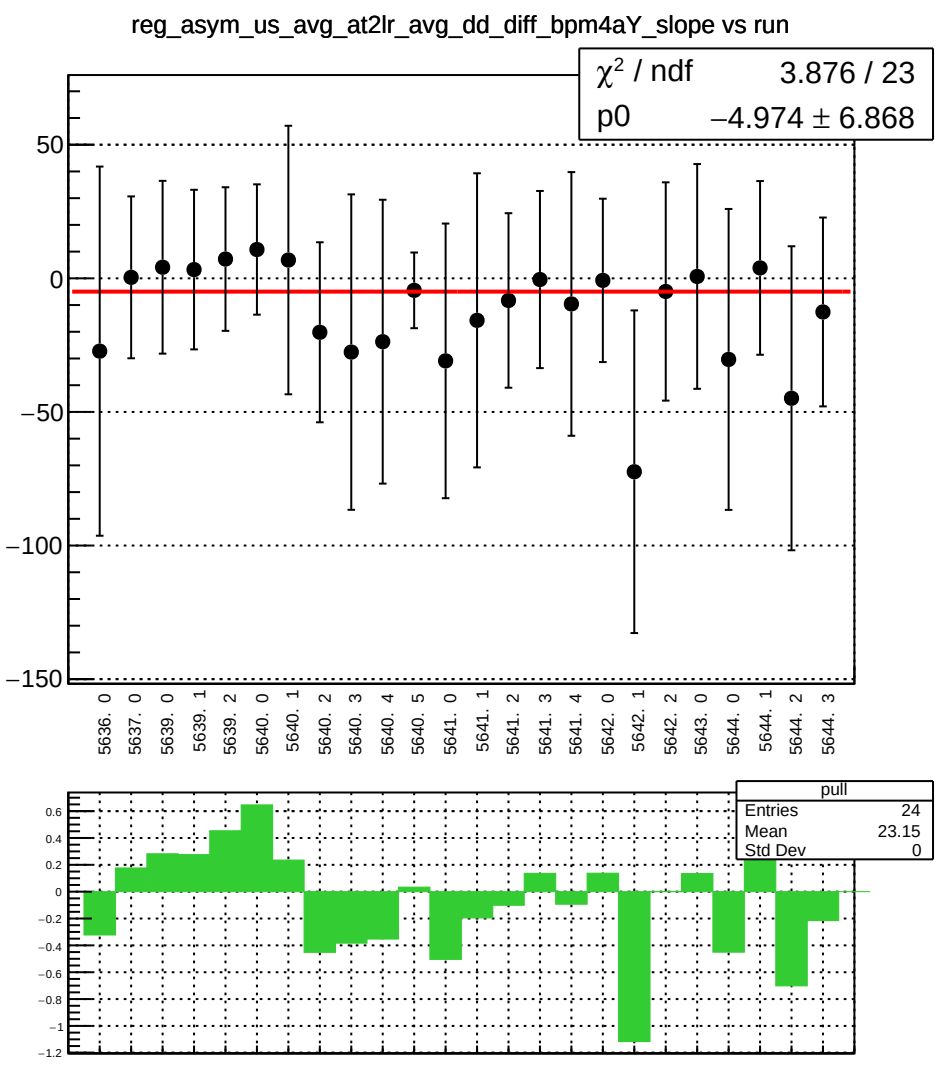

pull
Entries 24
Mean −234.6
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

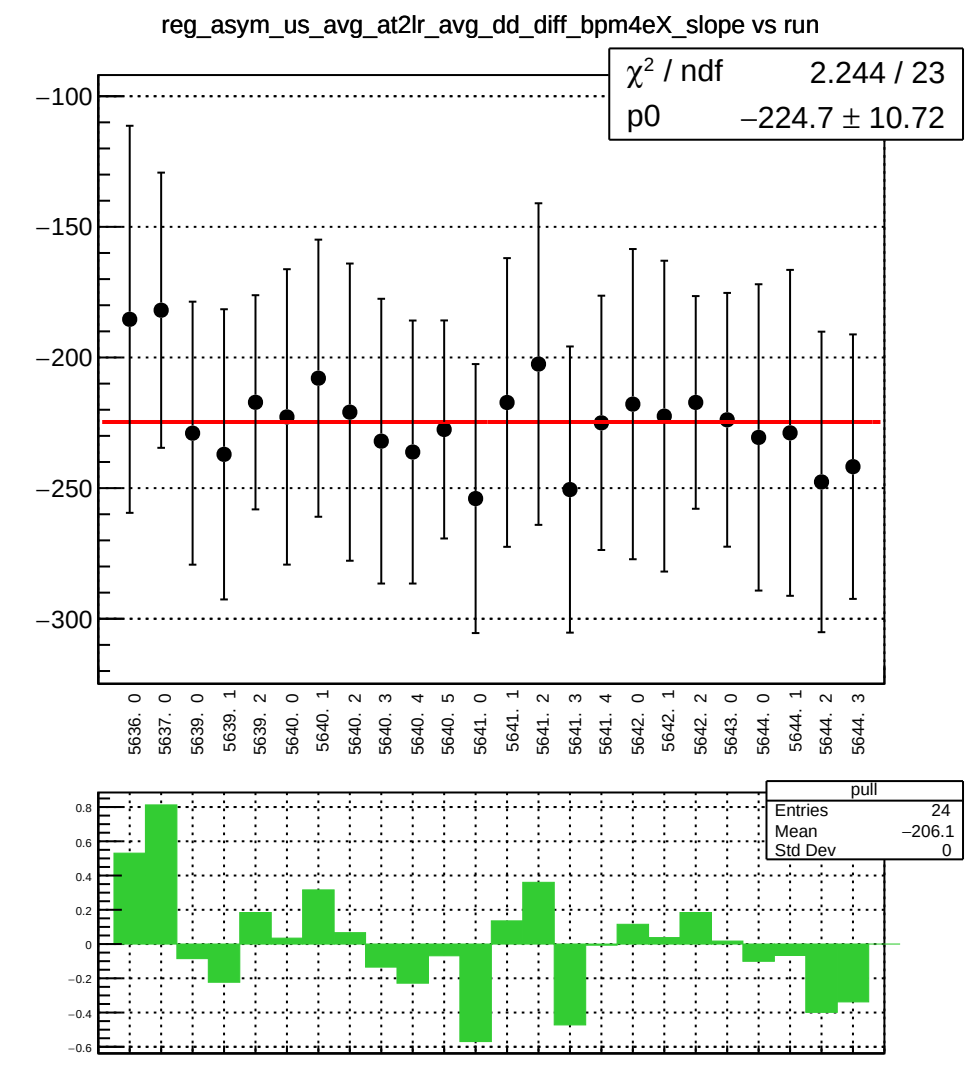

pull1D
Entries 24
Mean −0.003777
Std Dev 0.2755
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

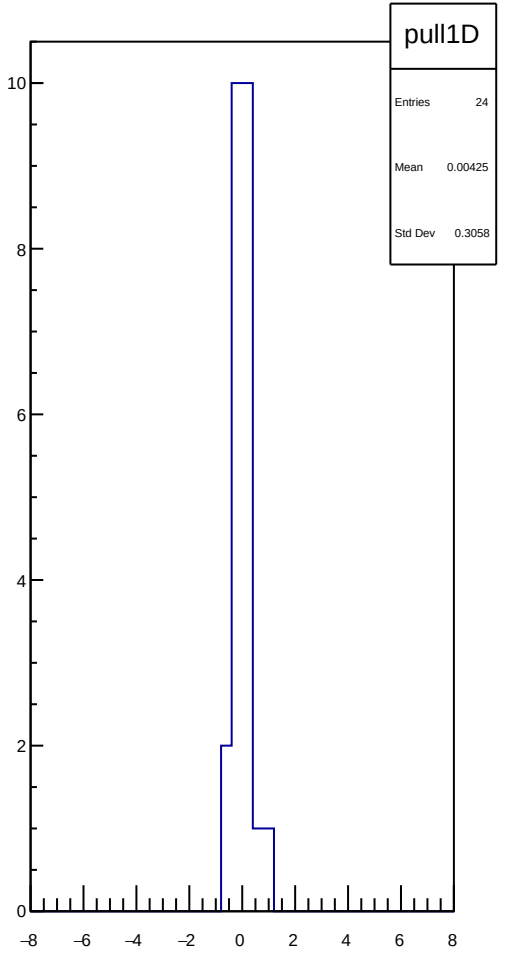

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.485 / 23
p0 115.9 ± 16.28
250
200
150
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 22.19
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean −0.1025
Std Dev 0.367
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

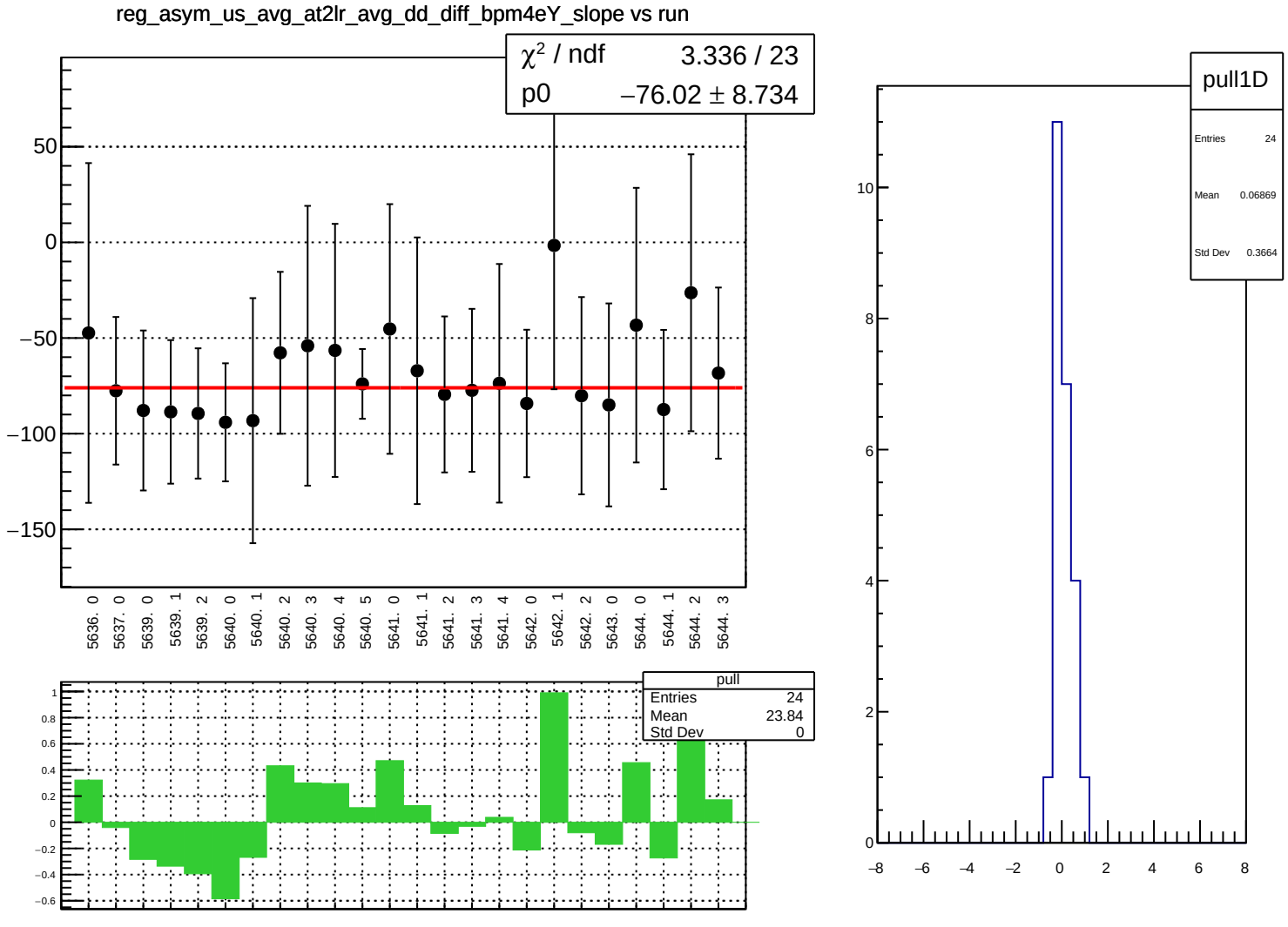

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 43.73 / 23
p0 −293.8 ± 0.8124
−280
−285
−290
−295
−300
−305
−310
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 71.55
Std Dev 0
pull1D
Entries 24
Mean −0.04954
Std Dev 1.349

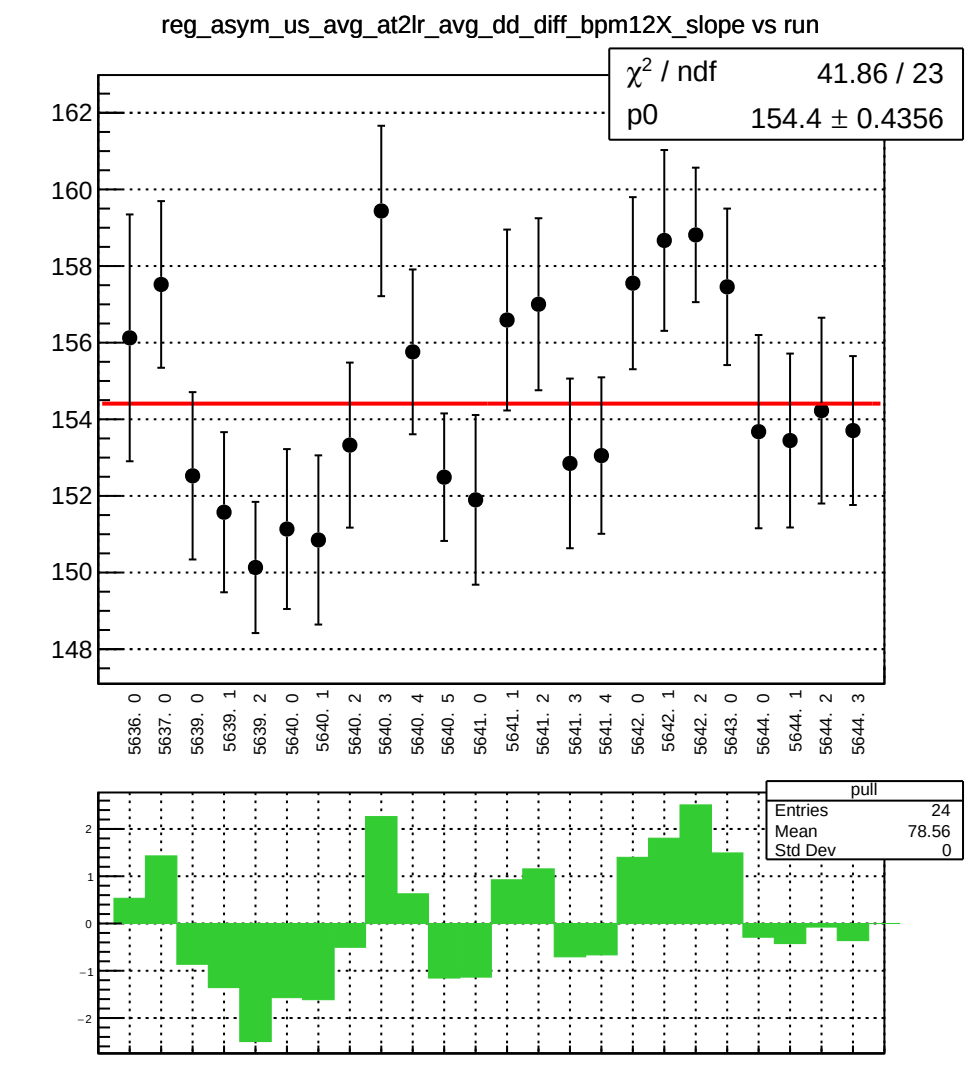

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 2.283 / 23
p0 228.4 ± 12.35
300
250
200
150
100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −290.6
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean −0.003219
Std Dev 0.3084
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

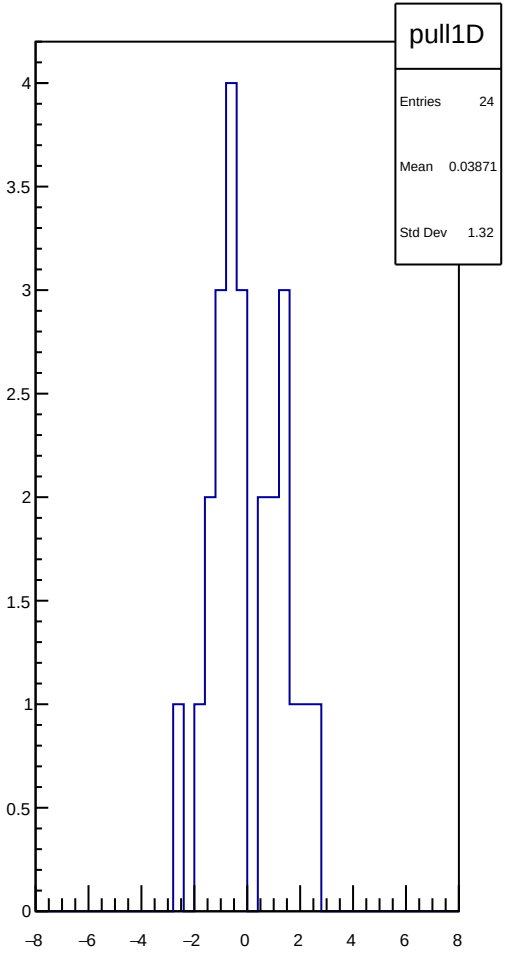

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.876 / 23
p0 −4.974 ± 6.868
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 23.15
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 24
Mean −0.08757
Std Dev 0.3922
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

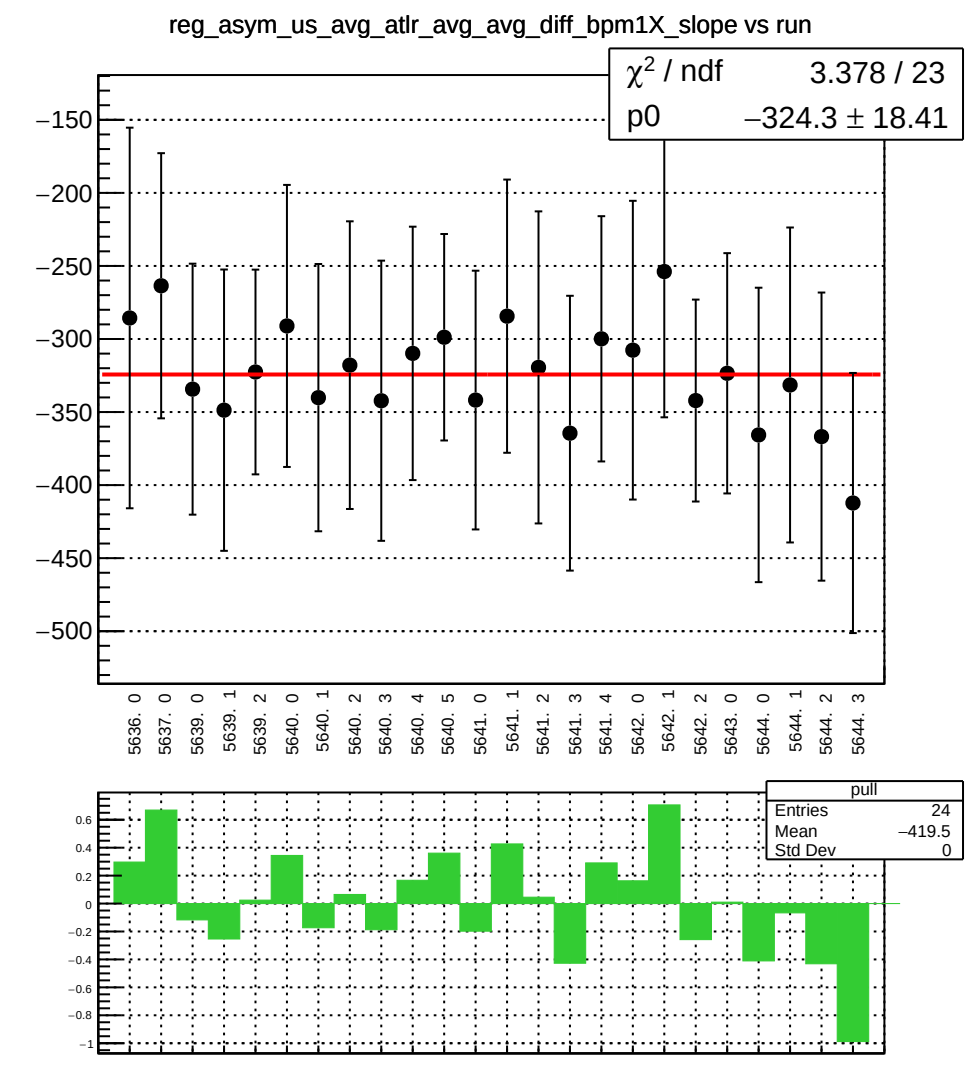

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.244 / 23
p0 −224.7 ± 10.72
−100
−150
−200
−250
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −206.1
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

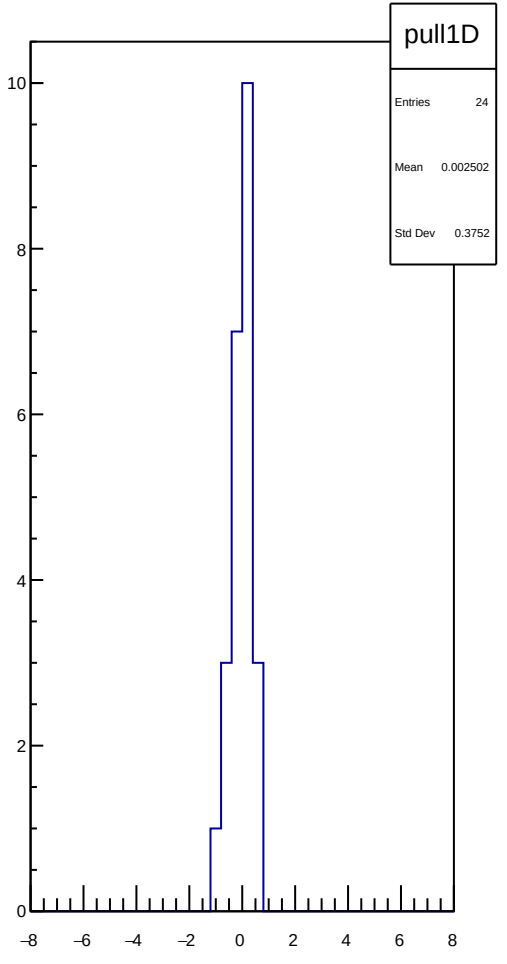

pull1D
Entries 24
Mean 0.00425
Std Dev 0.3058
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

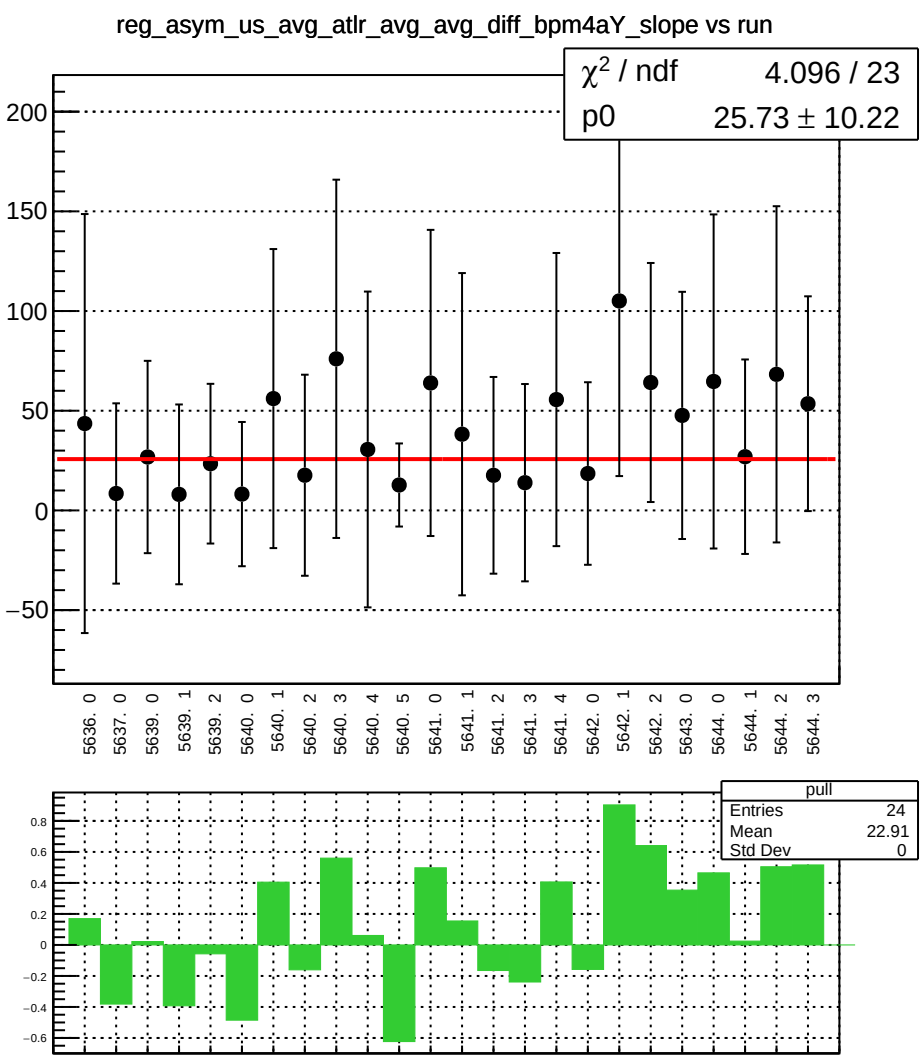

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.336 / 23
p0 −76.02 ± 8.734
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 23.84
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 24
Mean 0.06869
Std Dev 0.3664
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

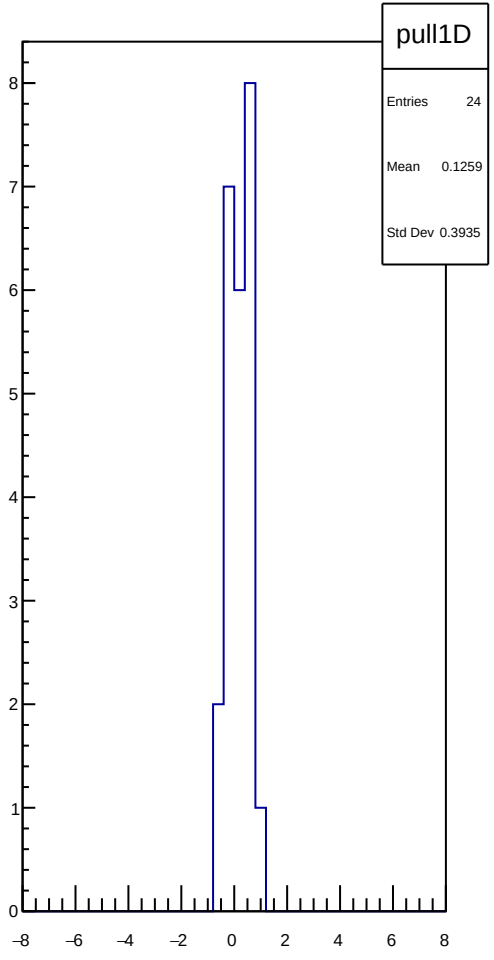

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 41.86 / 23
p0 154.4 ± 0.4356
162
160
158
156
154
152
150
148
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 78.56
Std Dev 0
2
1
0
−1
−2

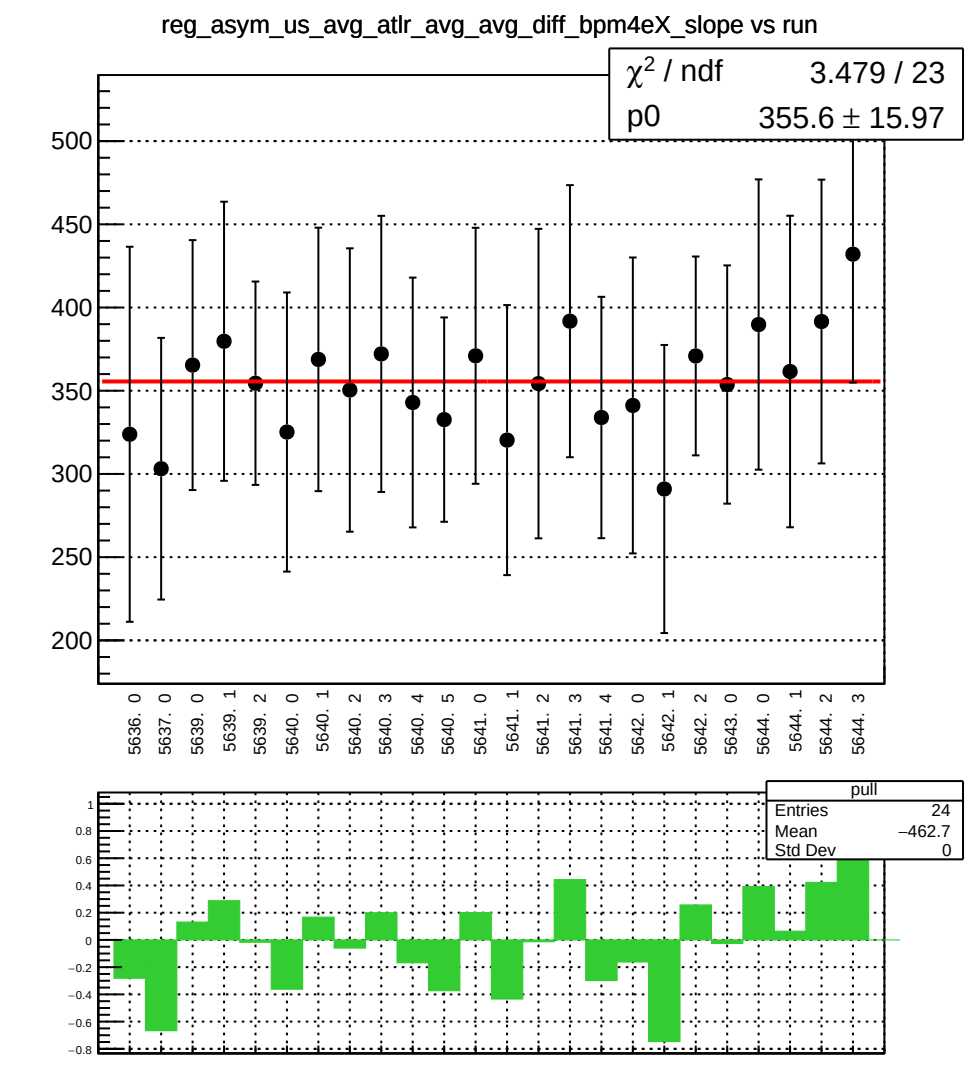

pull1D
Entries 24
Mean 0.03871
Std Dev 1.32
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

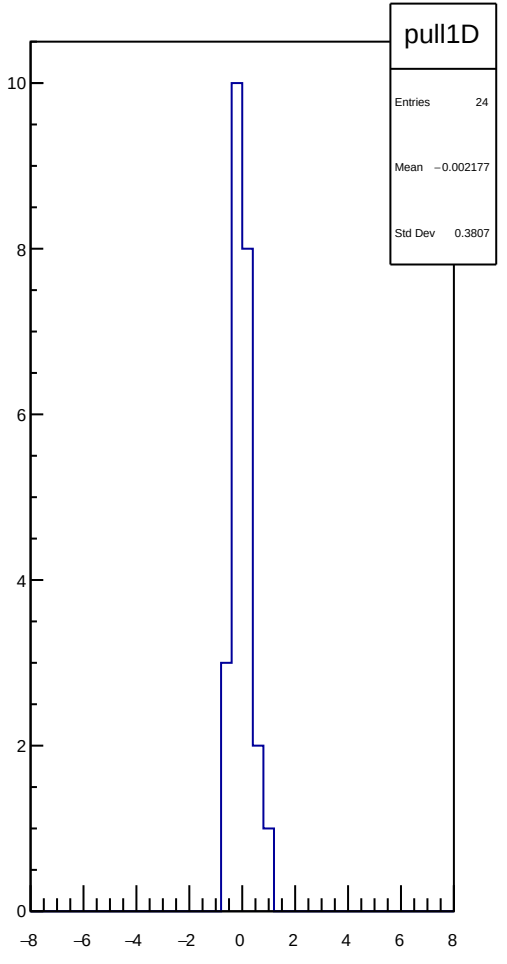

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 3.378 / 23
p0 −324.3 ± 18.41
−150
−200
−250
−300
−350
−400
−450
−500
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −419.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

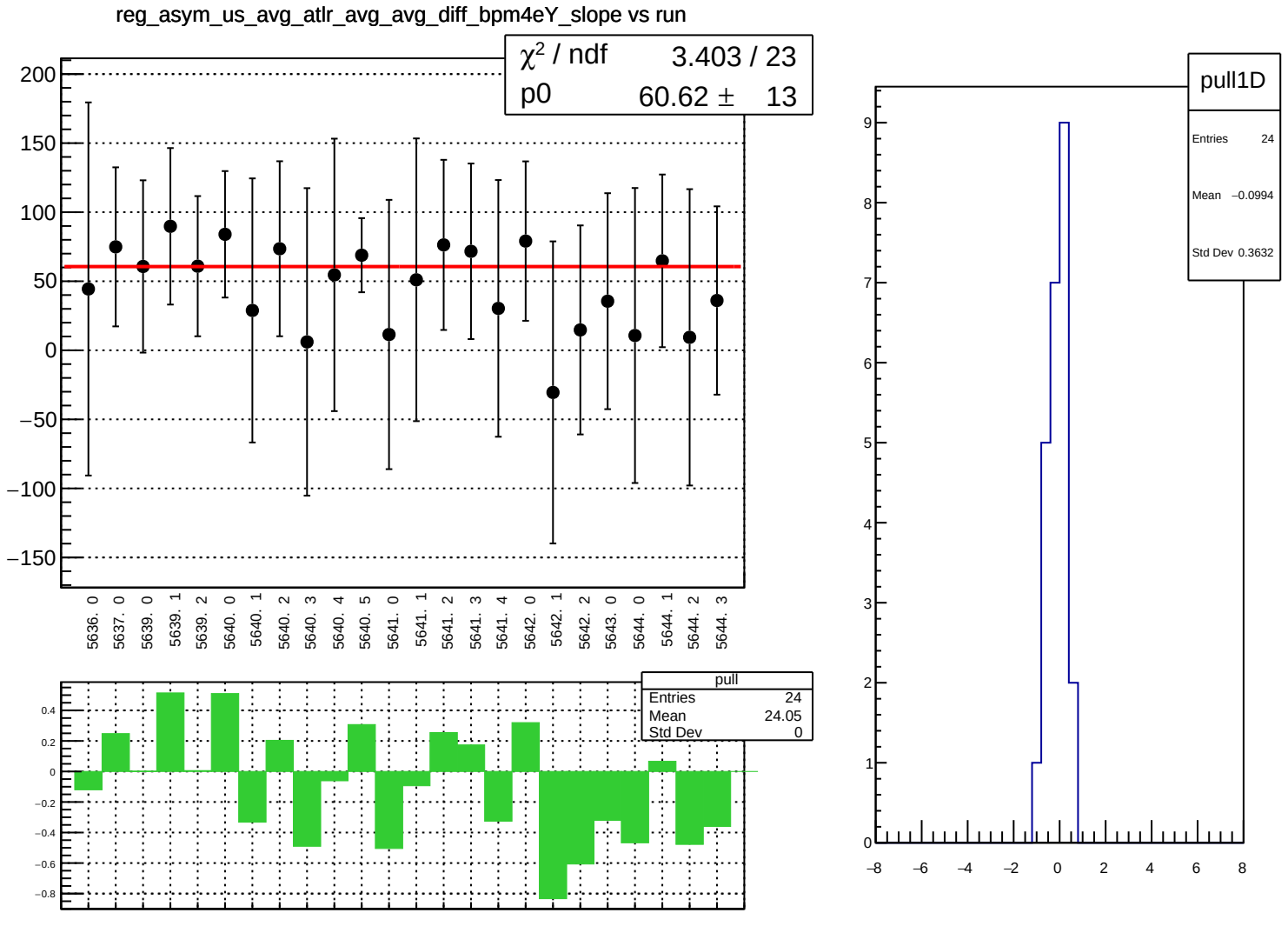

pull1D
Entries 24
Mean 0.002502
Std Dev 0.3752
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

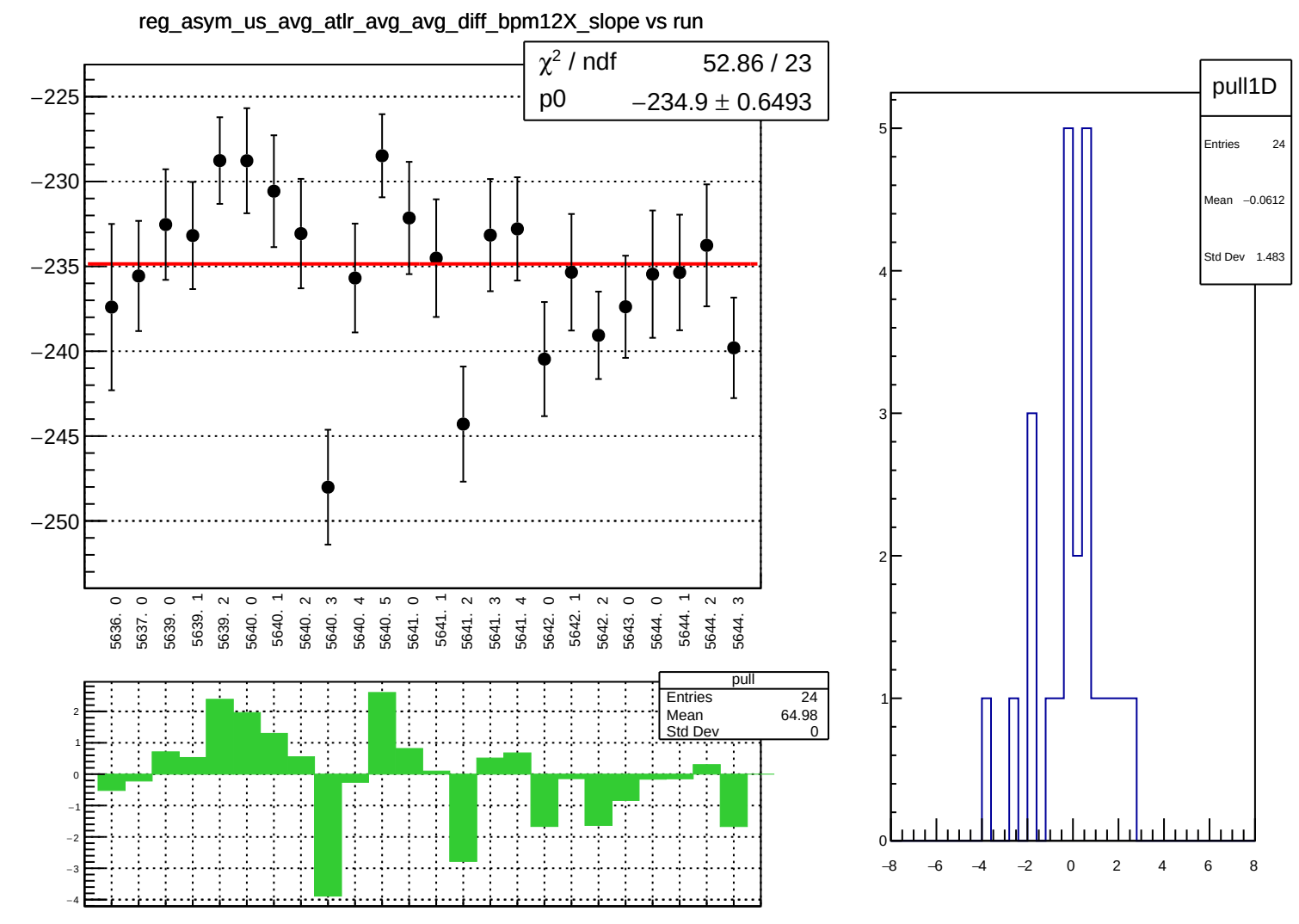

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.096 / 23
p0 25.73 ± 10.22
200
150
100
50
0
−50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 22.91
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

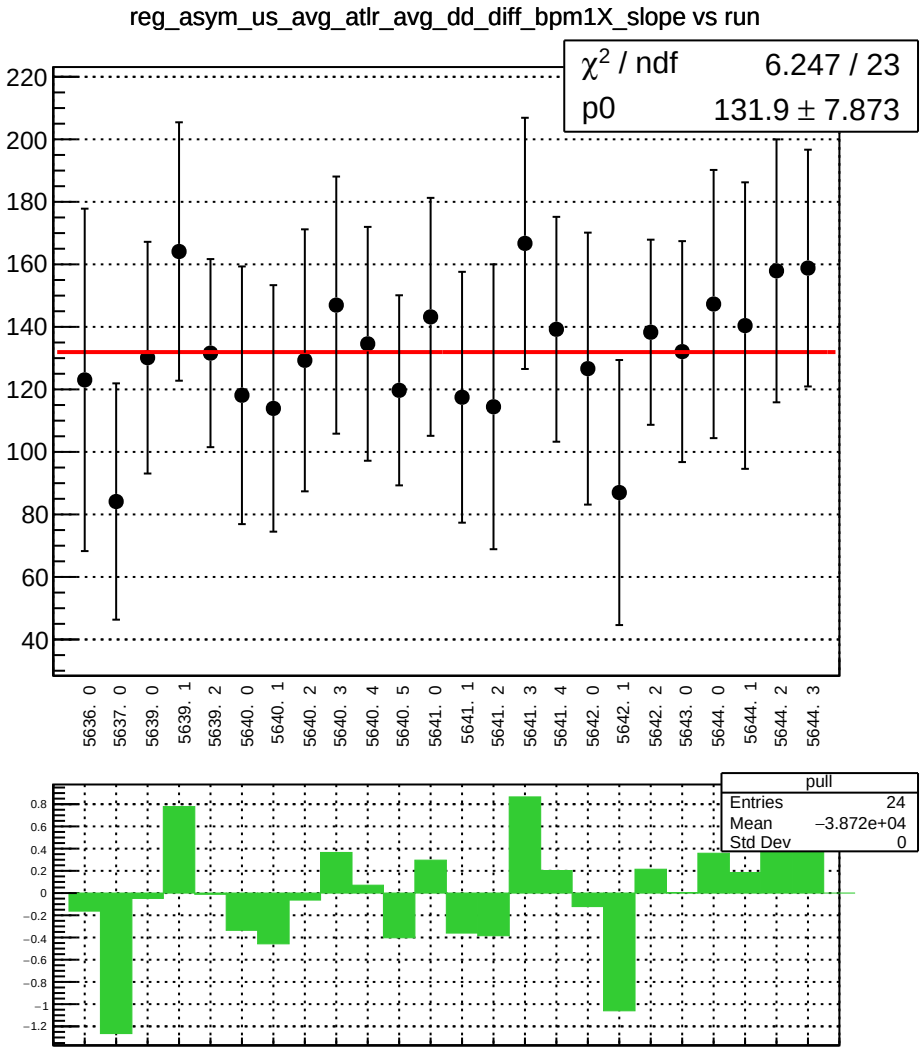

pull1D
Entries 24
Mean 0.1259
Std Dev 0.3935
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

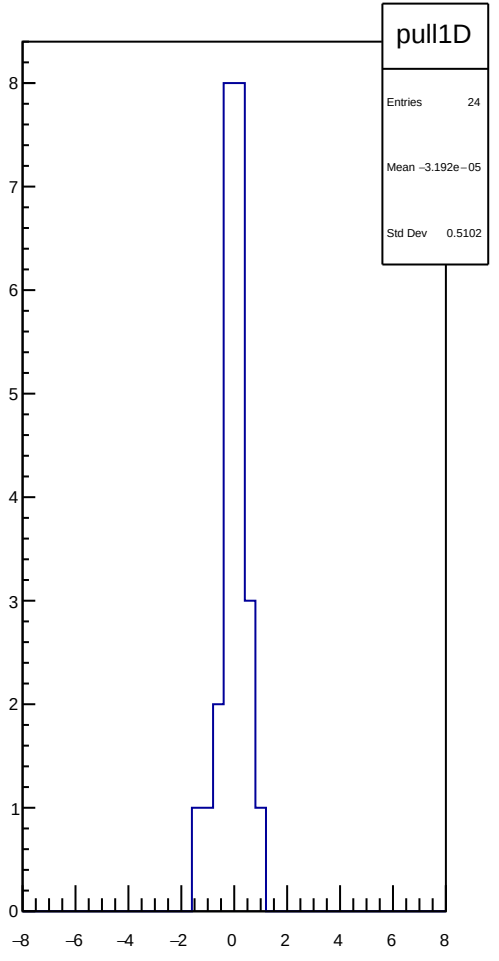

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.479 / 23
p0 355.6 ± 15.97
500
450
400
350
300
250
200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −462.7
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

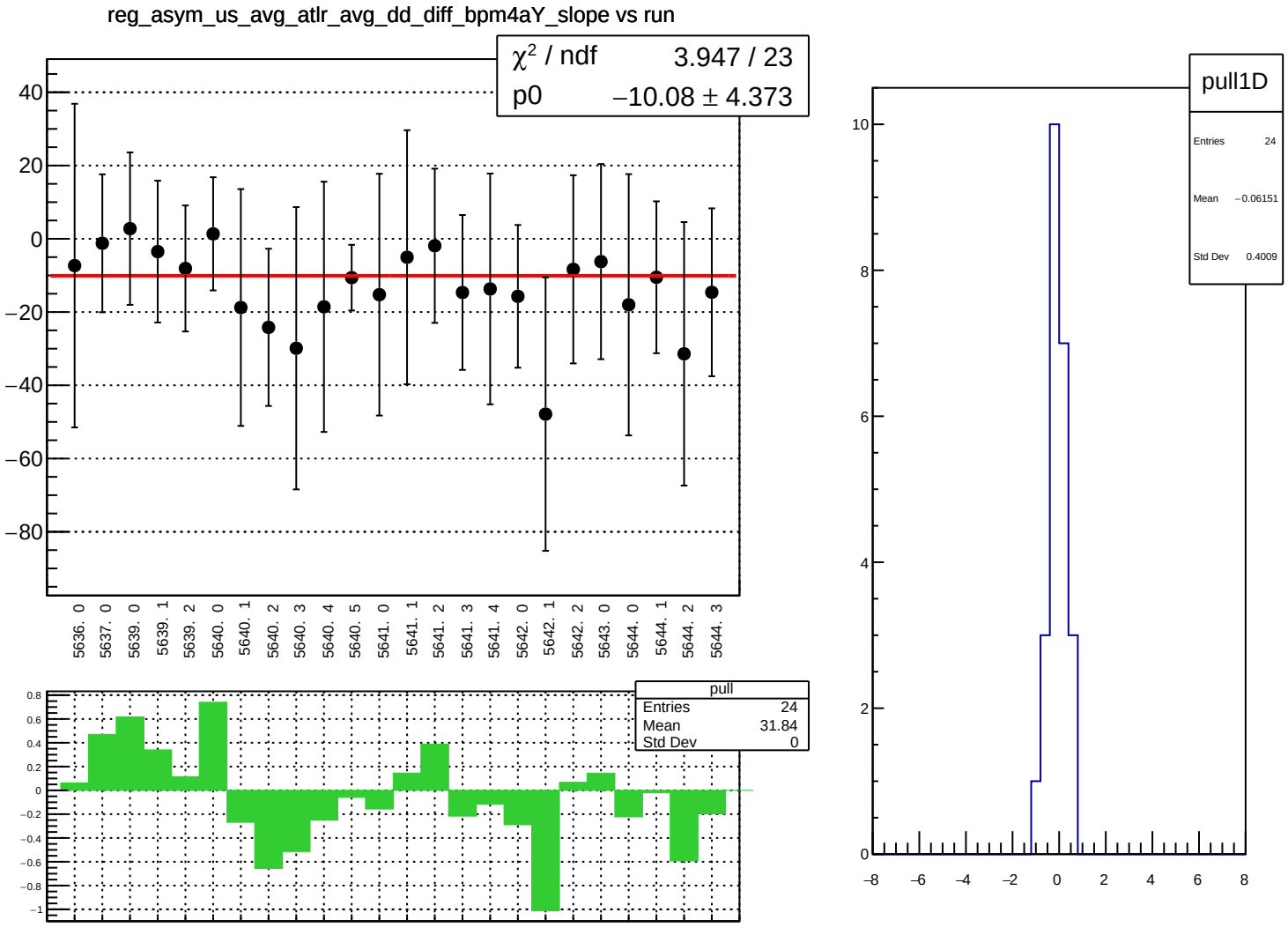

pull1D
Entries 24
Mean −0.002177
Std Dev 0.3807
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

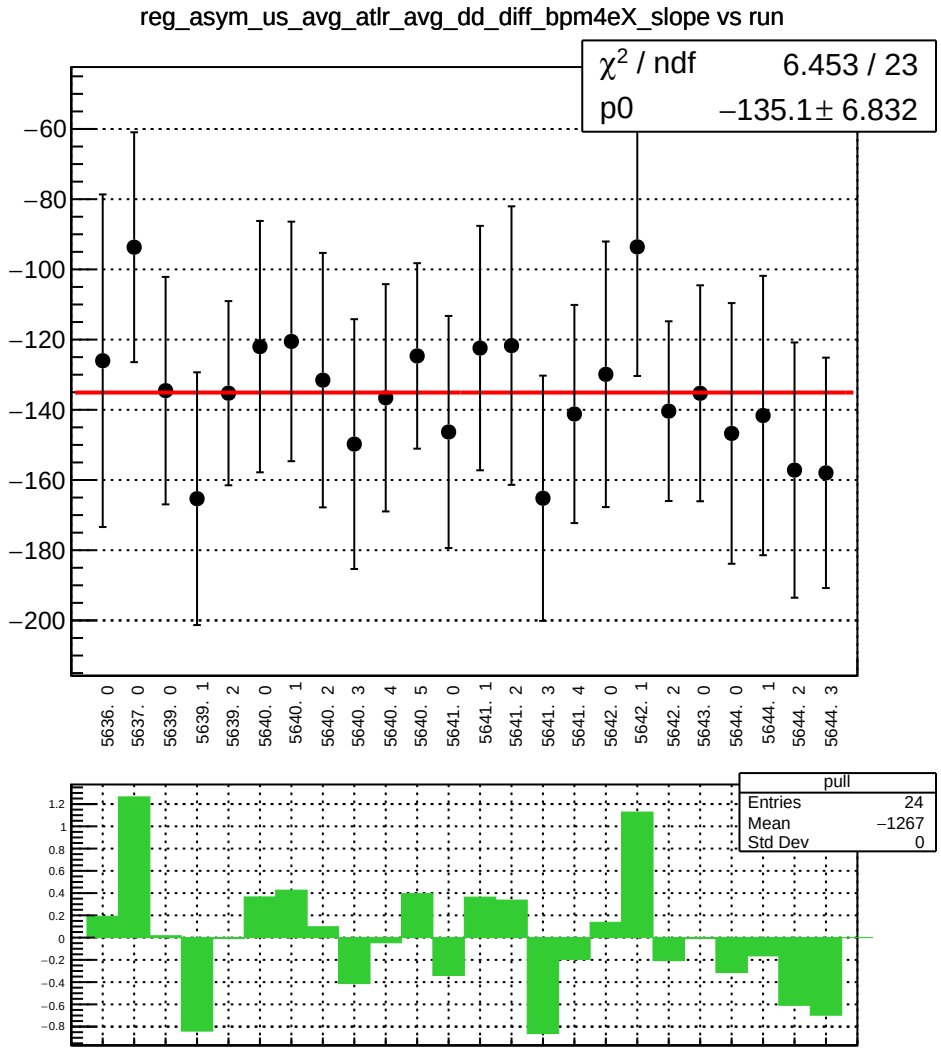

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.403 / 23
p0 60.62 ± 13
200
150
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 24.05
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean −0.0994
Std Dev 0.3632
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

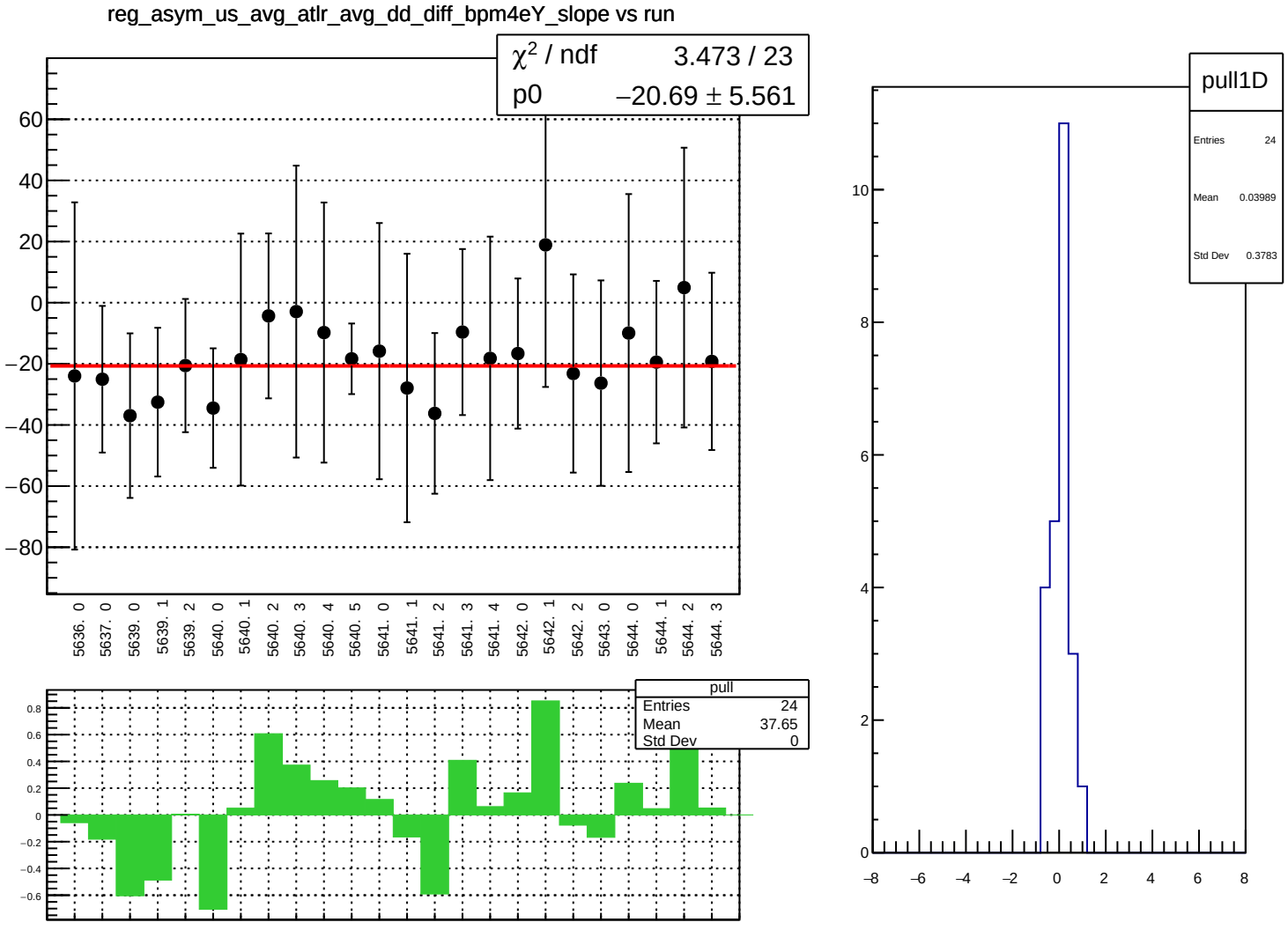

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 52.86 / 23
p0 −234.9 ± 0.6493
−225
−230
−235
−240
−245
−250
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 64.98
Std Dev 0
pull1D
Entries 24
Mean −0.0612
Std Dev 1.483

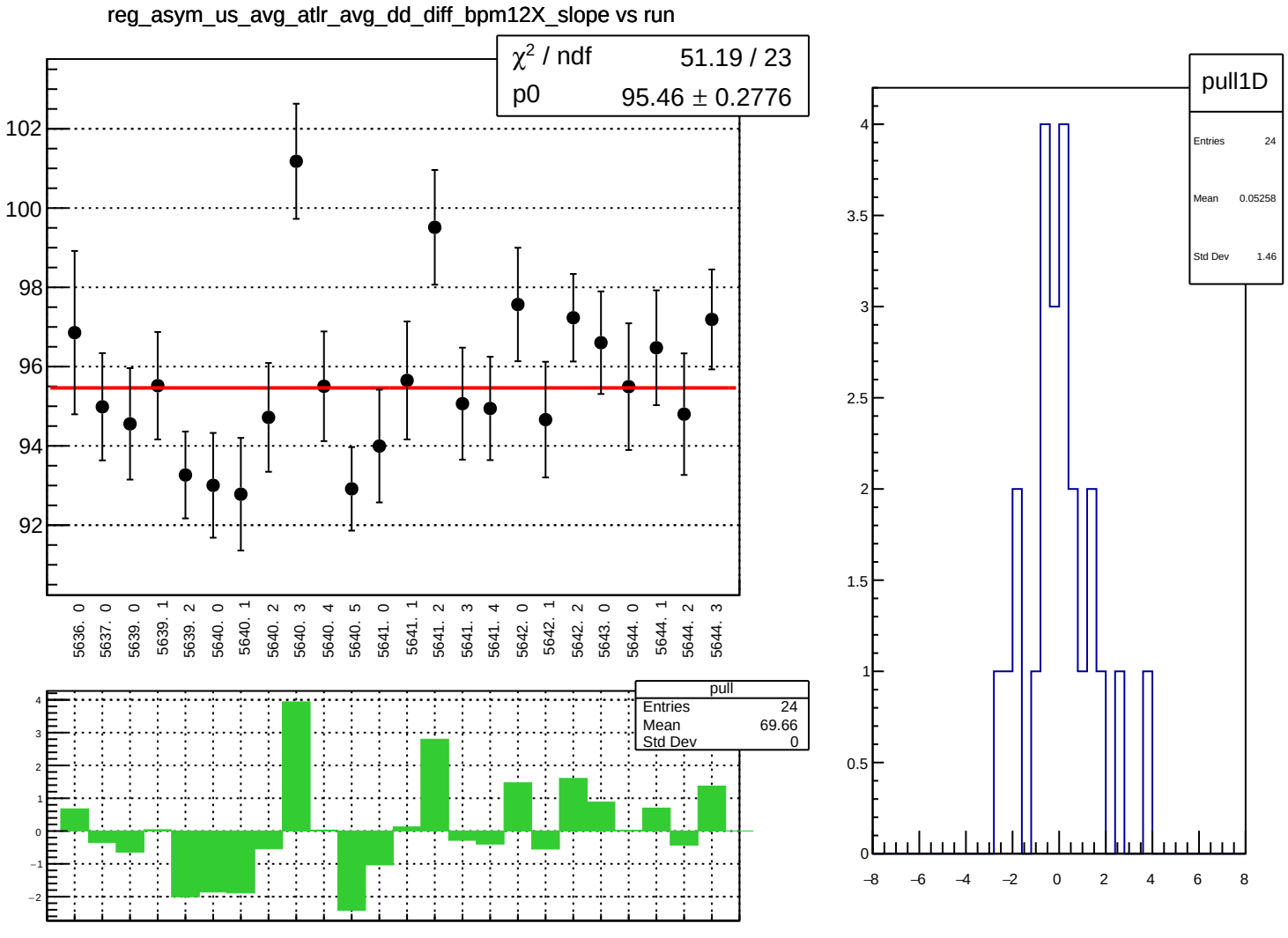

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 6.247 / 23
p0 131.9 ± 7.873
220
200
180
160
140
120
100
80
60
40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −3.872e+04
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

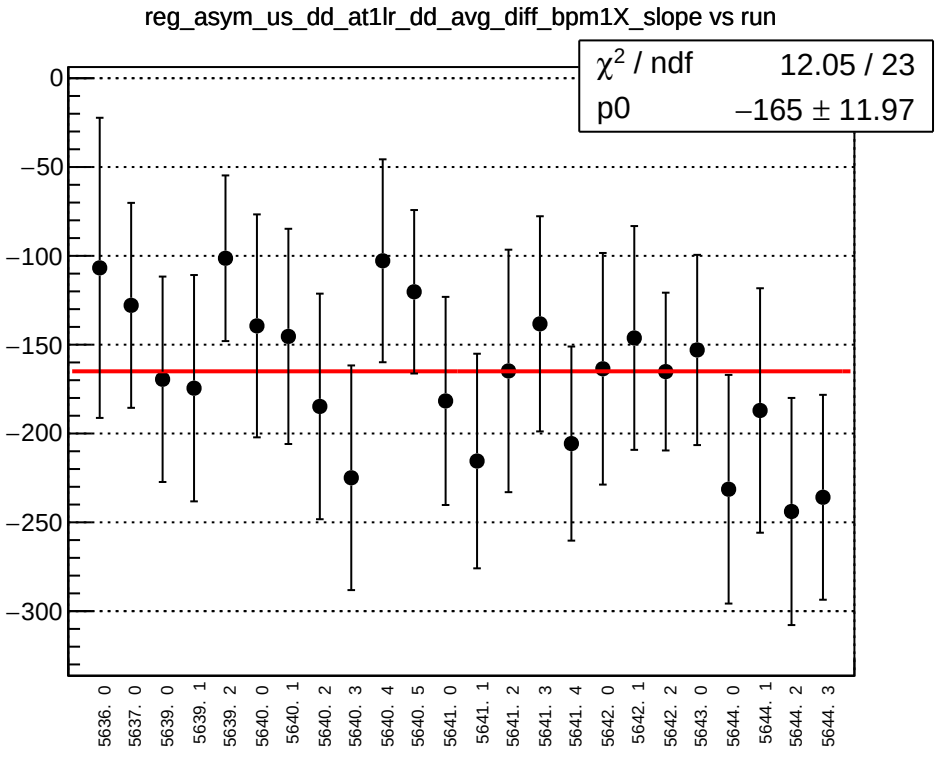

pull1D
Entries 24
Mean −3.192e−05
Std Dev 0.5102
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

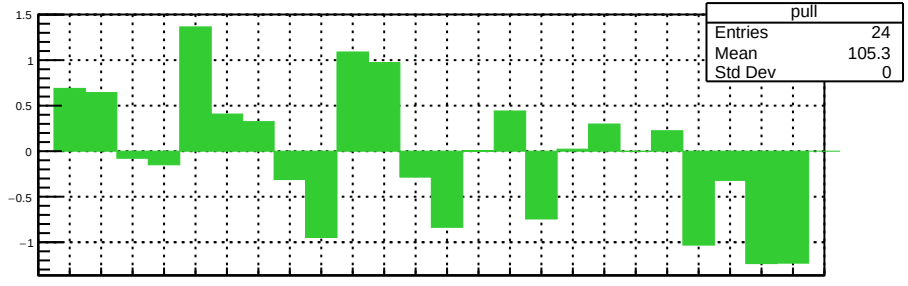

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.947 / 23
p0 −10.08 ± 4.373
40
20
0
−20
−40
−60
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 31.84
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 24
Mean −0.06151
Std Dev 0.4009
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

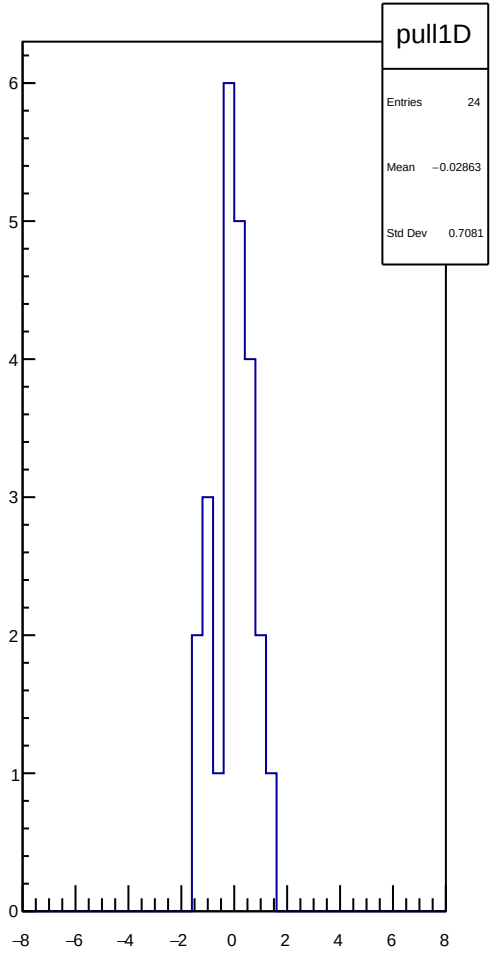

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.453 / 23
p0 −135.1± 6.832
−60
−80
−100
−120
−140
−160
−180
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −1267
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 24
Mean 0.0009066
Std Dev 0.5185
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

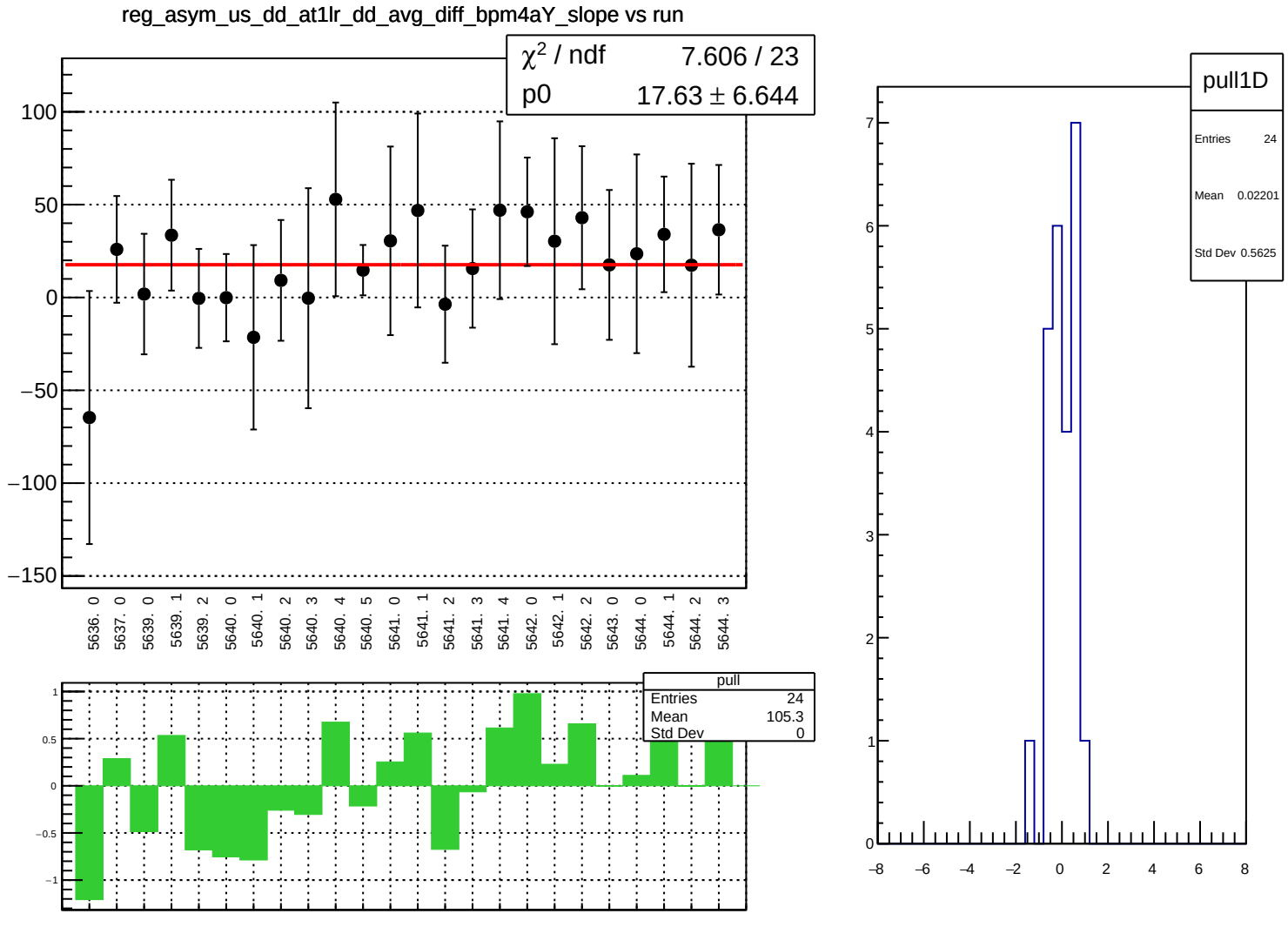

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.473 / 23
p0 −20.69 ± 5.561
60
40
20
0
−20
−40
−60
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 37.65
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 24
Mean 0.03989
Std Dev 0.3783
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

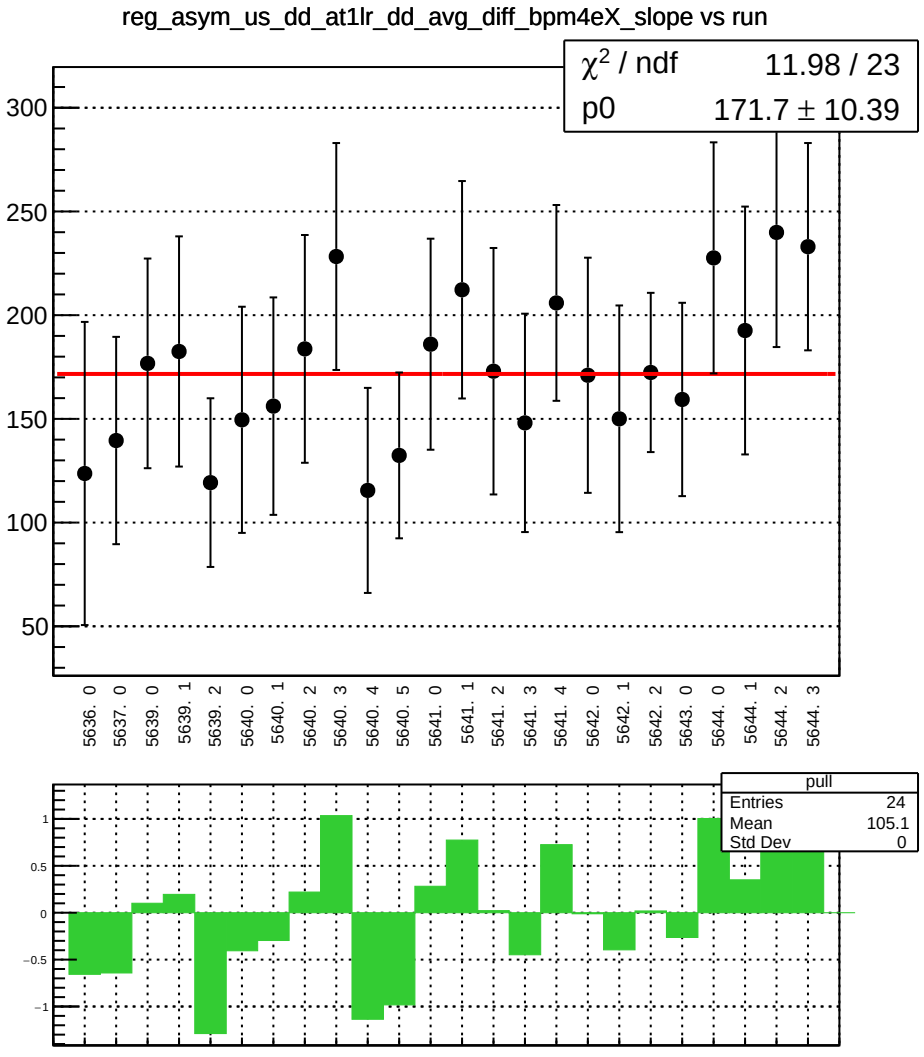

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 51.19 / 23
p0 95.46 ± 0.2776
102
100
98
96
94
92
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 69.66
Std Dev 0
pull1D
Entries 24
Mean 0.05258
Std Dev 1.46

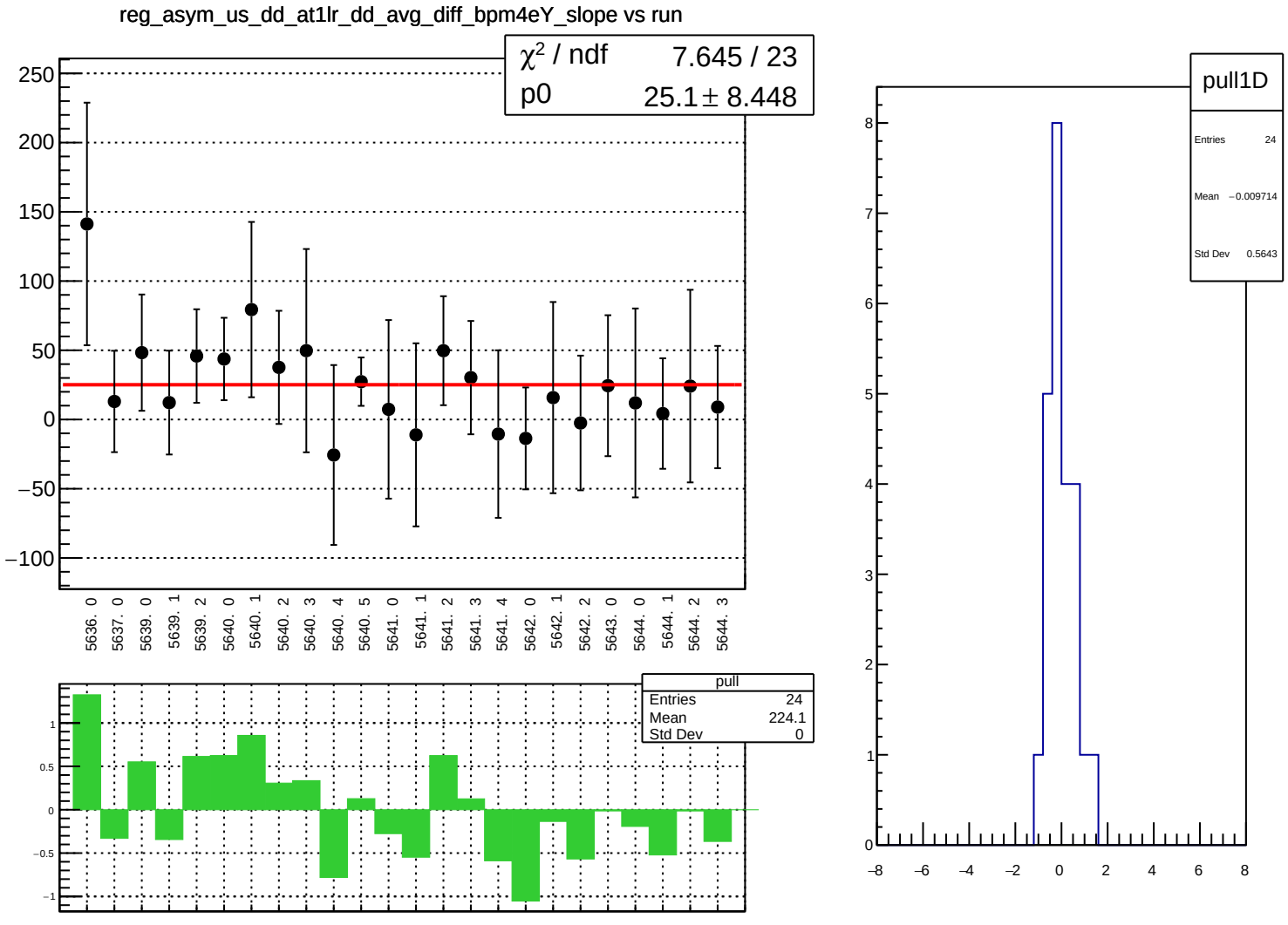

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 12.05 / 23
p0 −165 ± 11.97
0
−50
−100
−150
−200
−250
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

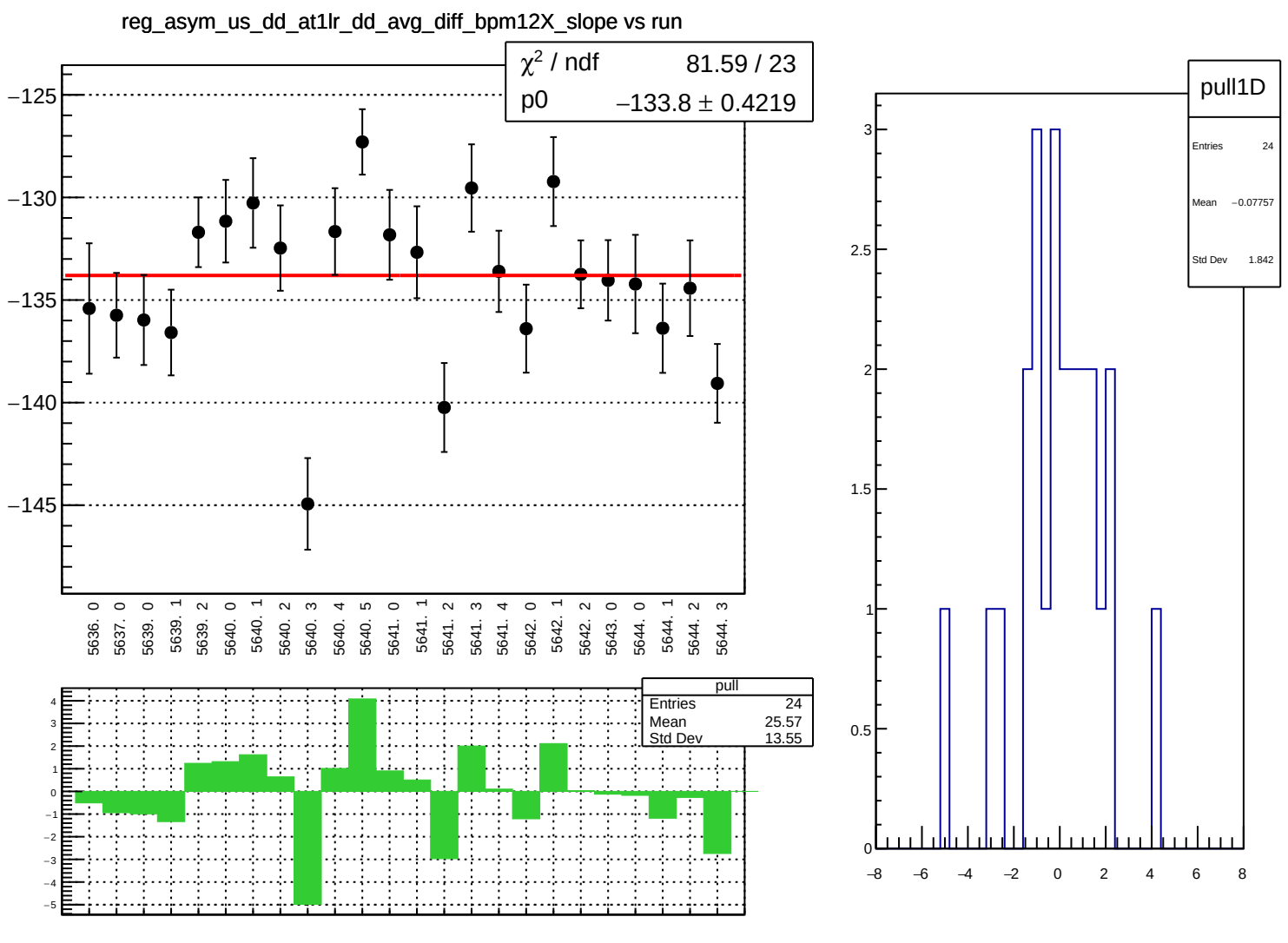

pull
Entries 24
Mean 105.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1

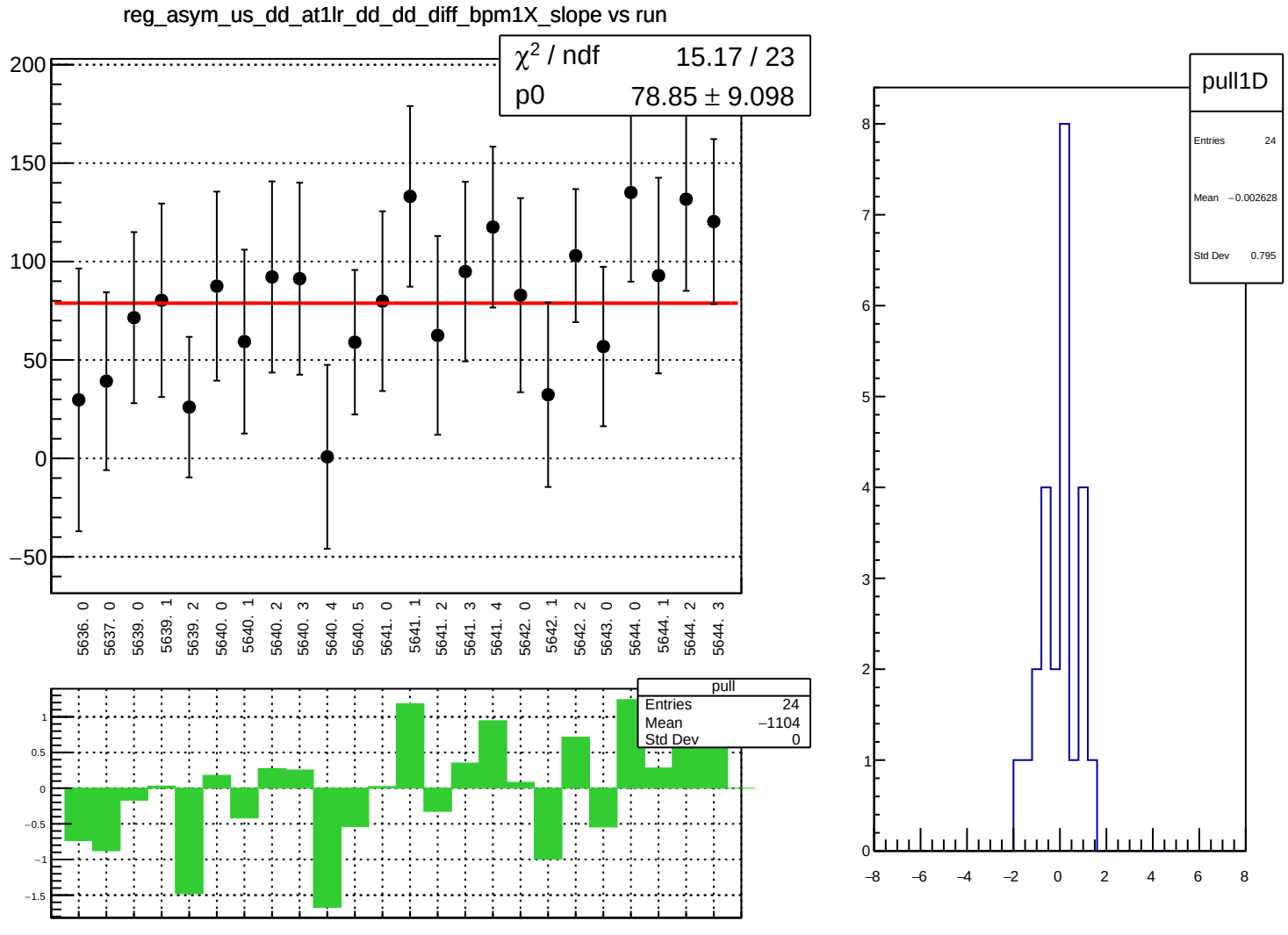

pull1D
Entries 24
Mean −0.02863
Std Dev 0.7081
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

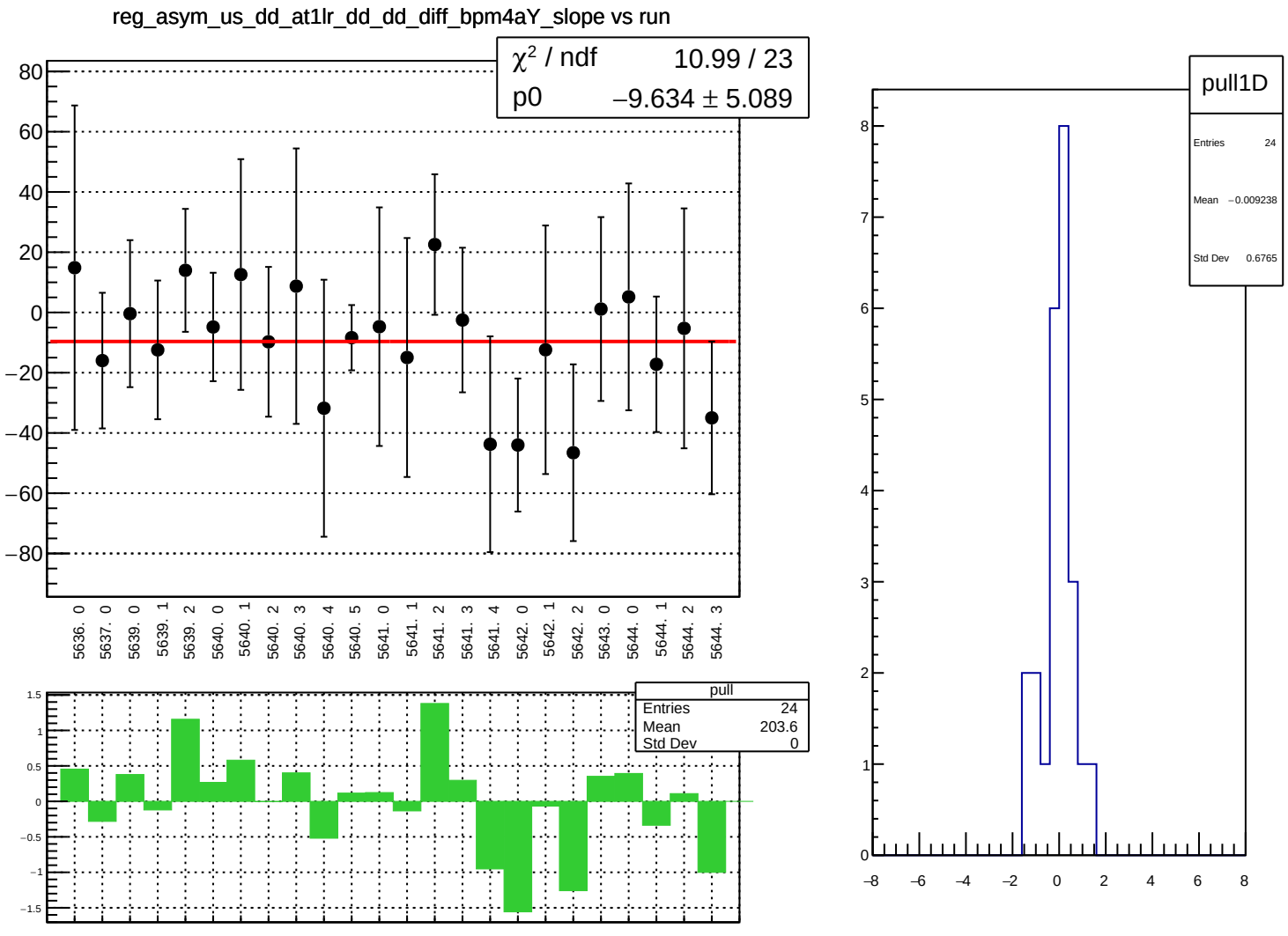

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.606 / 23
p0 17.63 ± 6.644
100
50
0
−50
−100
−150
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 105.3
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.02201
Std Dev 0.5625
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

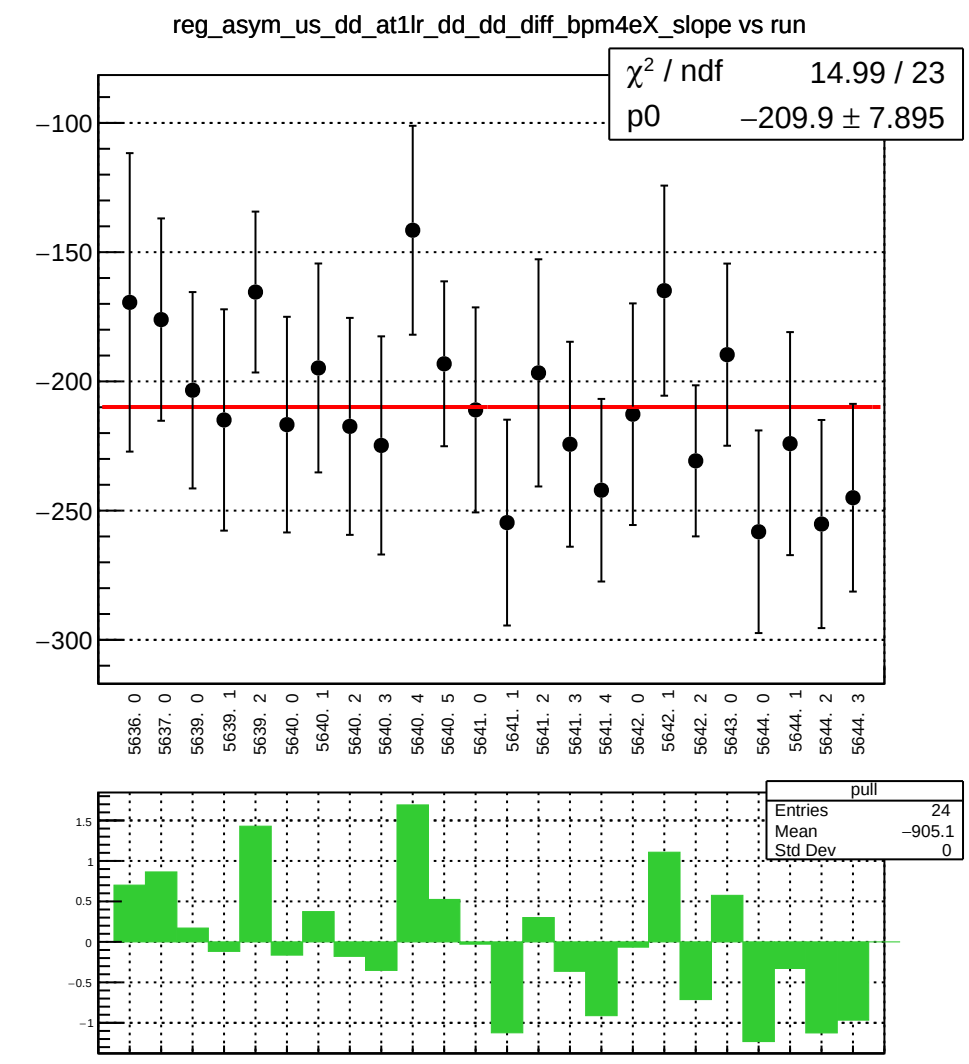

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.98 / 23
p0 171.7 ± 10.39
300
250
200
150
100
50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 105.1
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.02769
Std Dev 0.7059
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

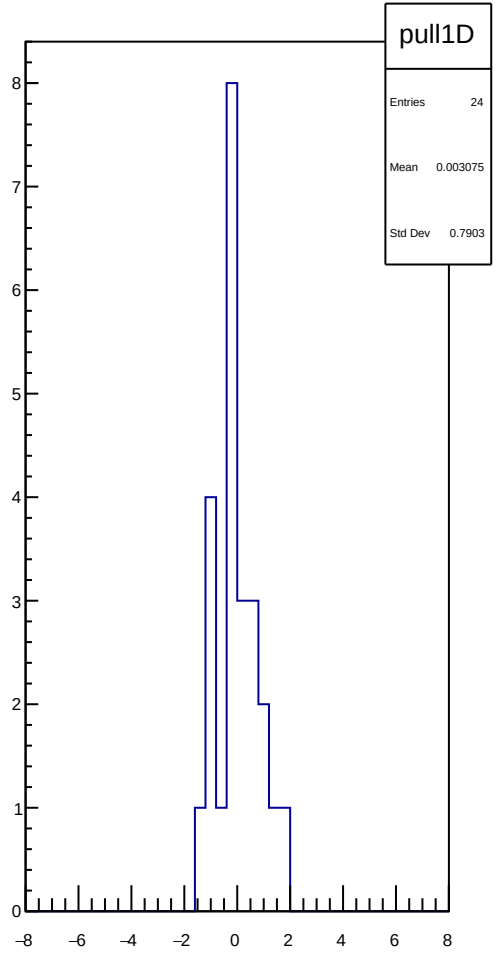

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.645 / 23
p0 25.1 ± 8.448
250
200
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 224.1
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.009714
Std Dev 0.5643
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

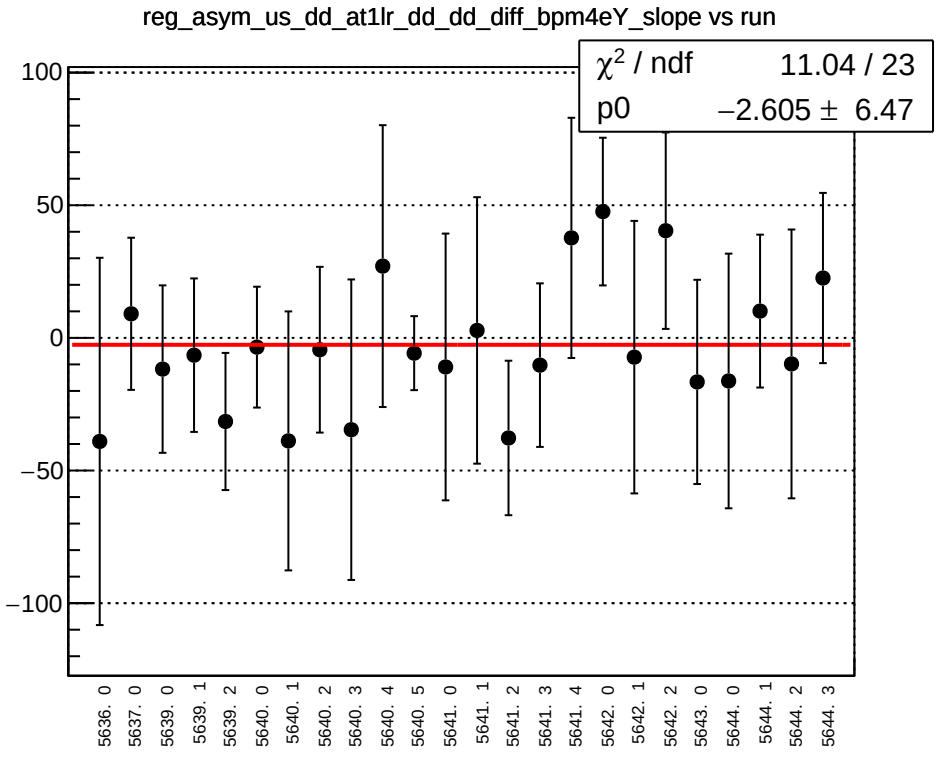

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 81.59 / 23
p0 −133.8 ± 0.4219
−125
−130
−135
−140
−145
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 25.57
Std Dev 13.55
pull1D
Entries 24
Mean −0.07757
Std Dev 1.842

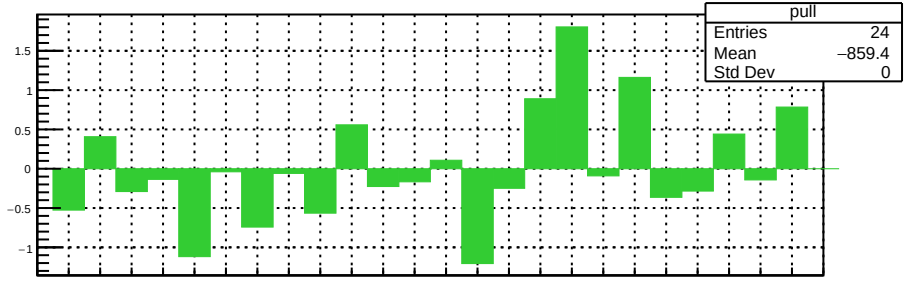

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 15.17 / 23
p0 78.85 ± 9.098
200
150
100
50
0
−50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −1104
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.002628
Std Dev 0.795
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

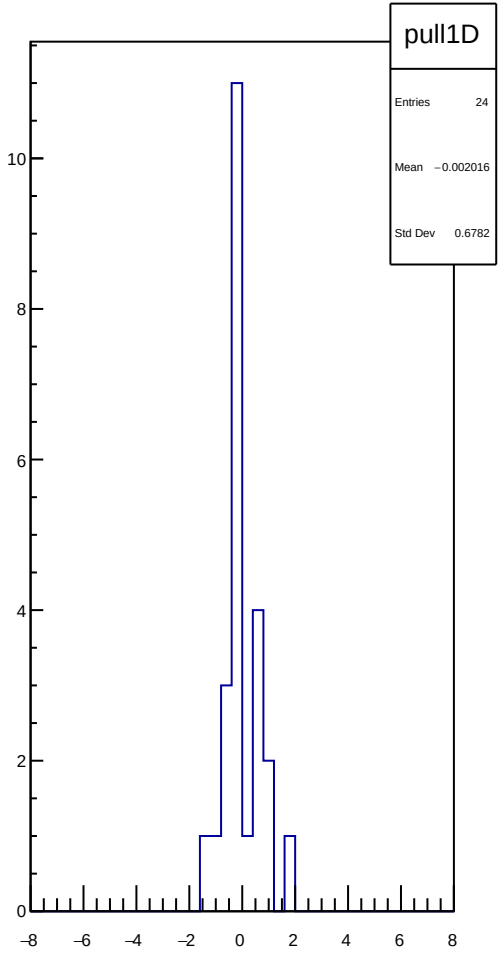

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.99 / 23
p0 −9.634 ± 5.089
80
60
40
20
0
−20
−40
−60
−80
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 203.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.009238
Std Dev 0.6765
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

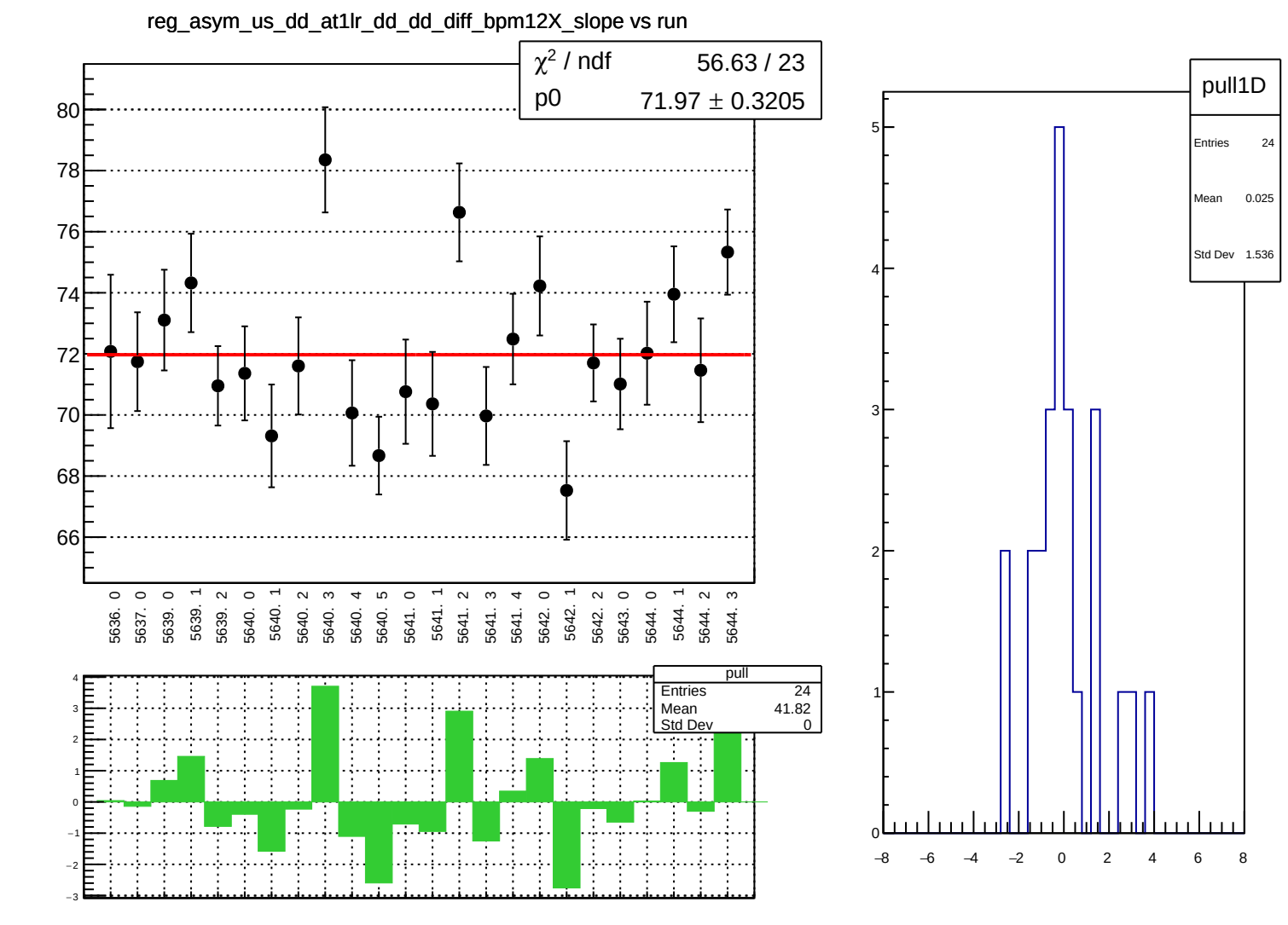

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.99 / 23
p0 −209.9 ± 7.895
−100
−150
−200
−250
−300
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −905.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1

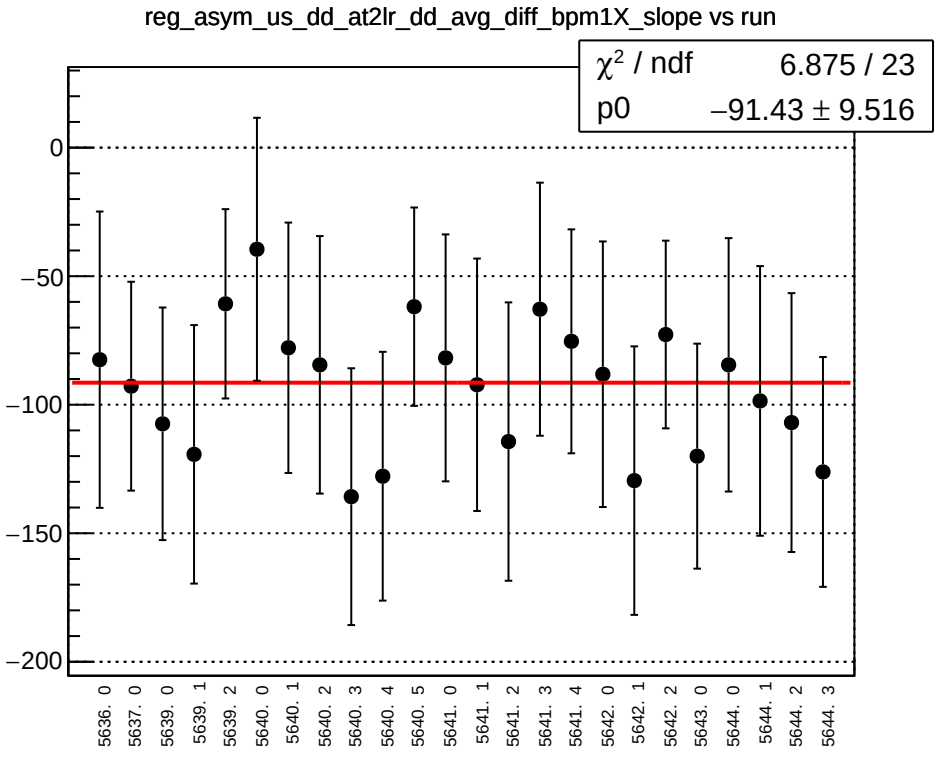

pull1D
Entries 24
Mean 0.003075
Std Dev 0.7903
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

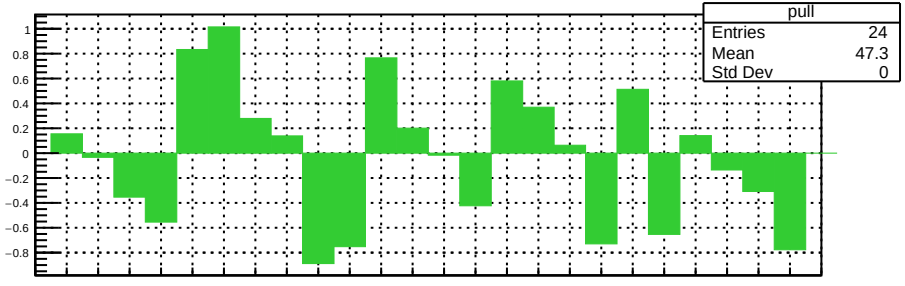

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.04 / 23
p0 −2.605 ± 6.47
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

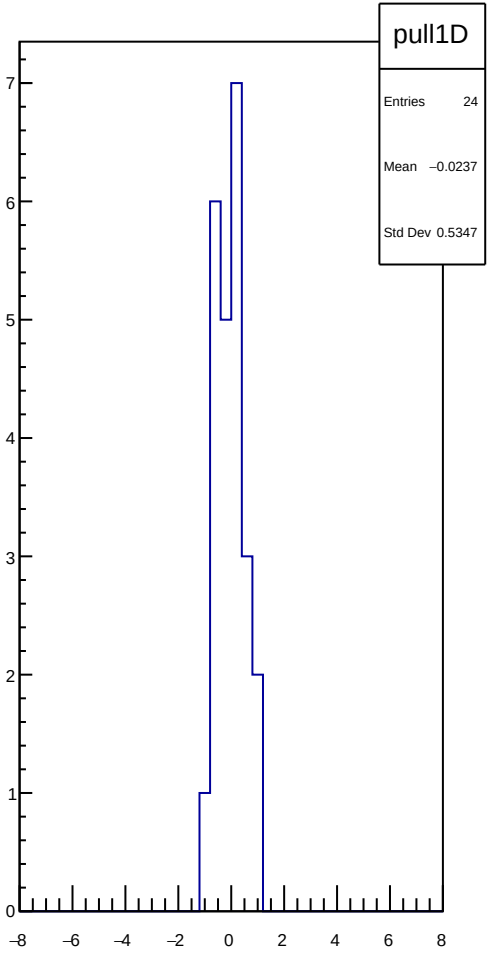

pull
Entries 24
Mean −859.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1

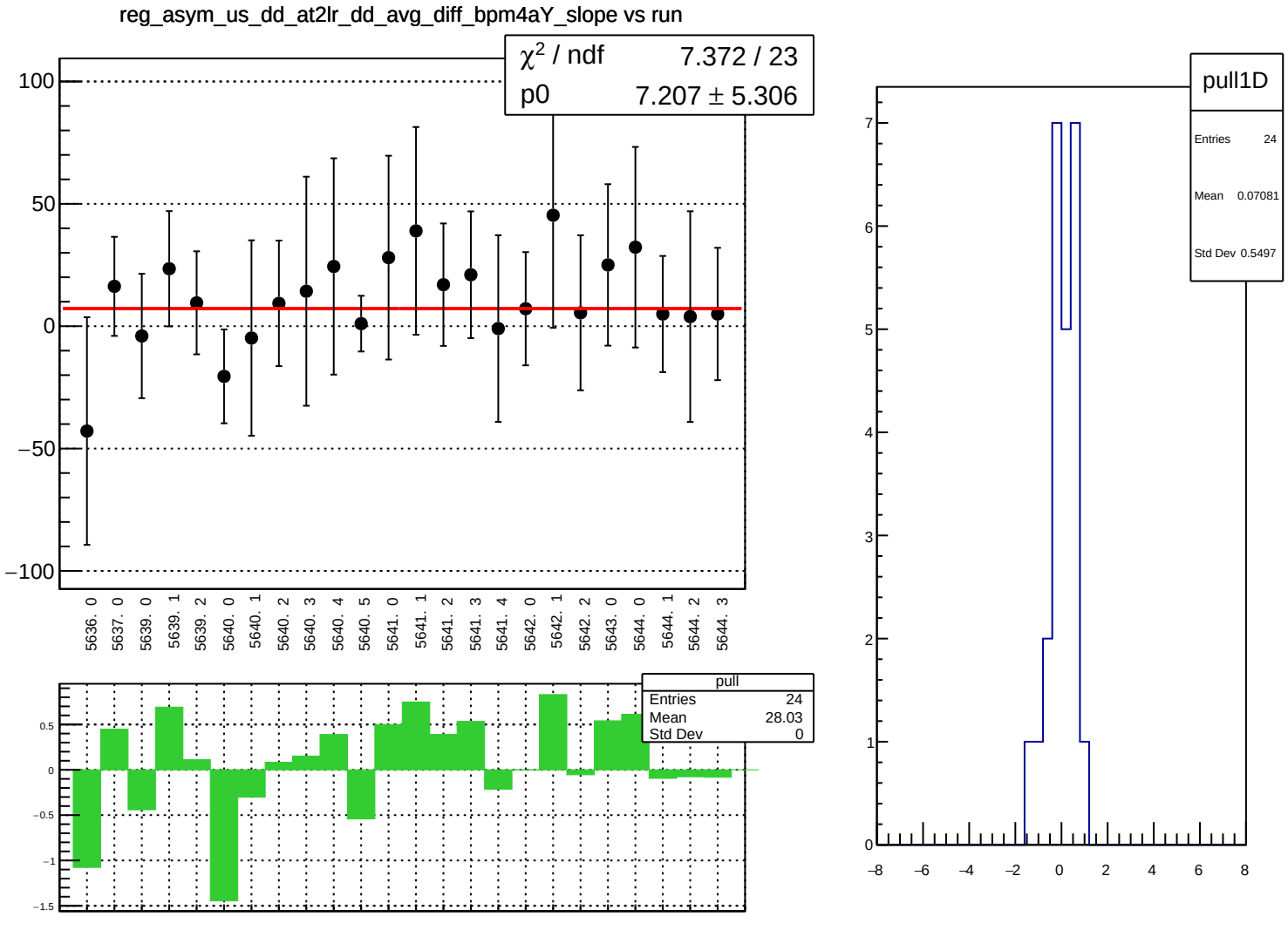

pull1D
Entries 24
Mean −0.002016
Std Dev 0.6782
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

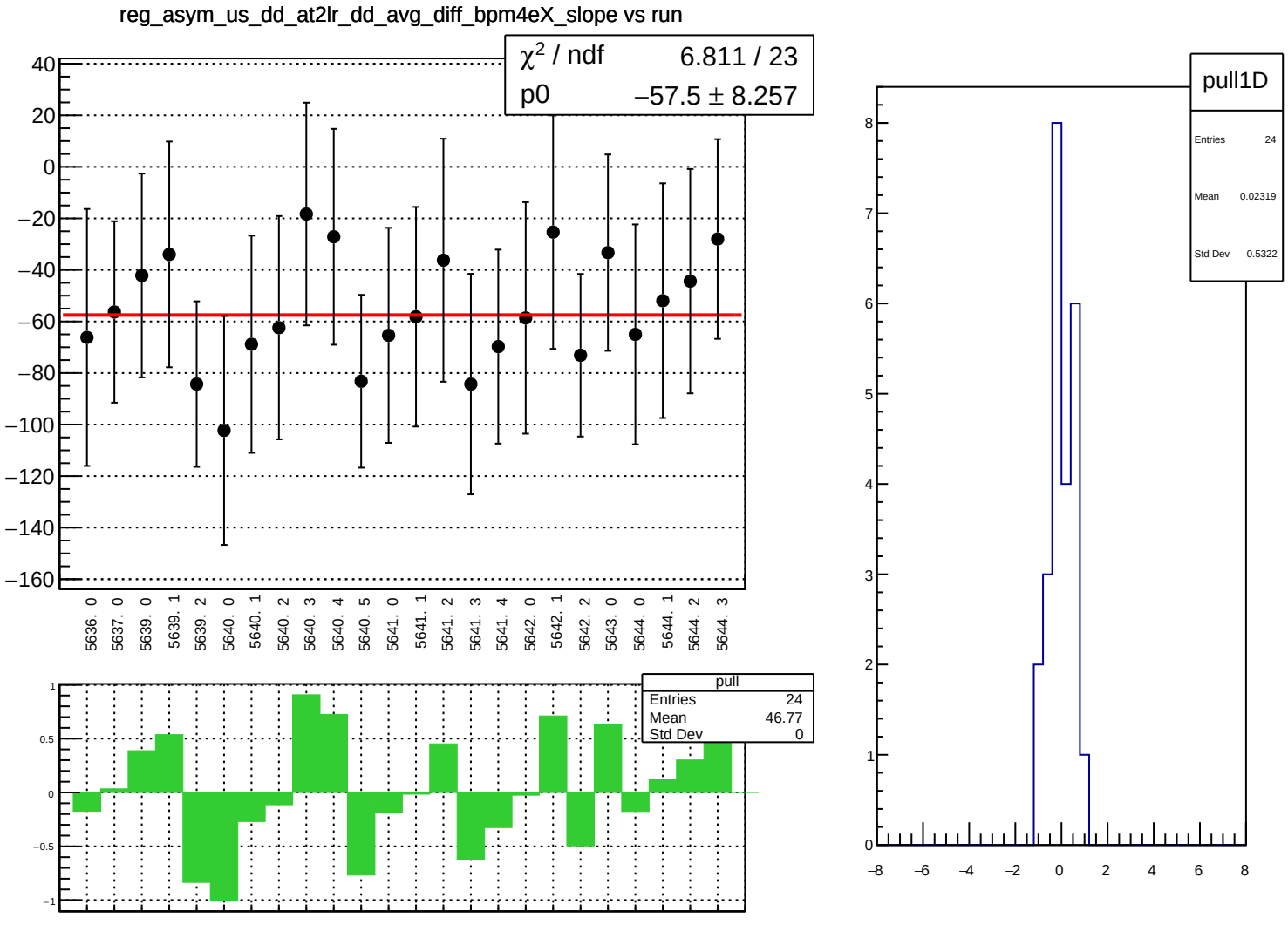

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 56.63 / 23
p0 71.97 ± 0.3205
80
78
76
74
72
70
68
66
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 41.82
Std Dev 0
pull1D
Entries 24
Mean 0.025
Std Dev 1.536

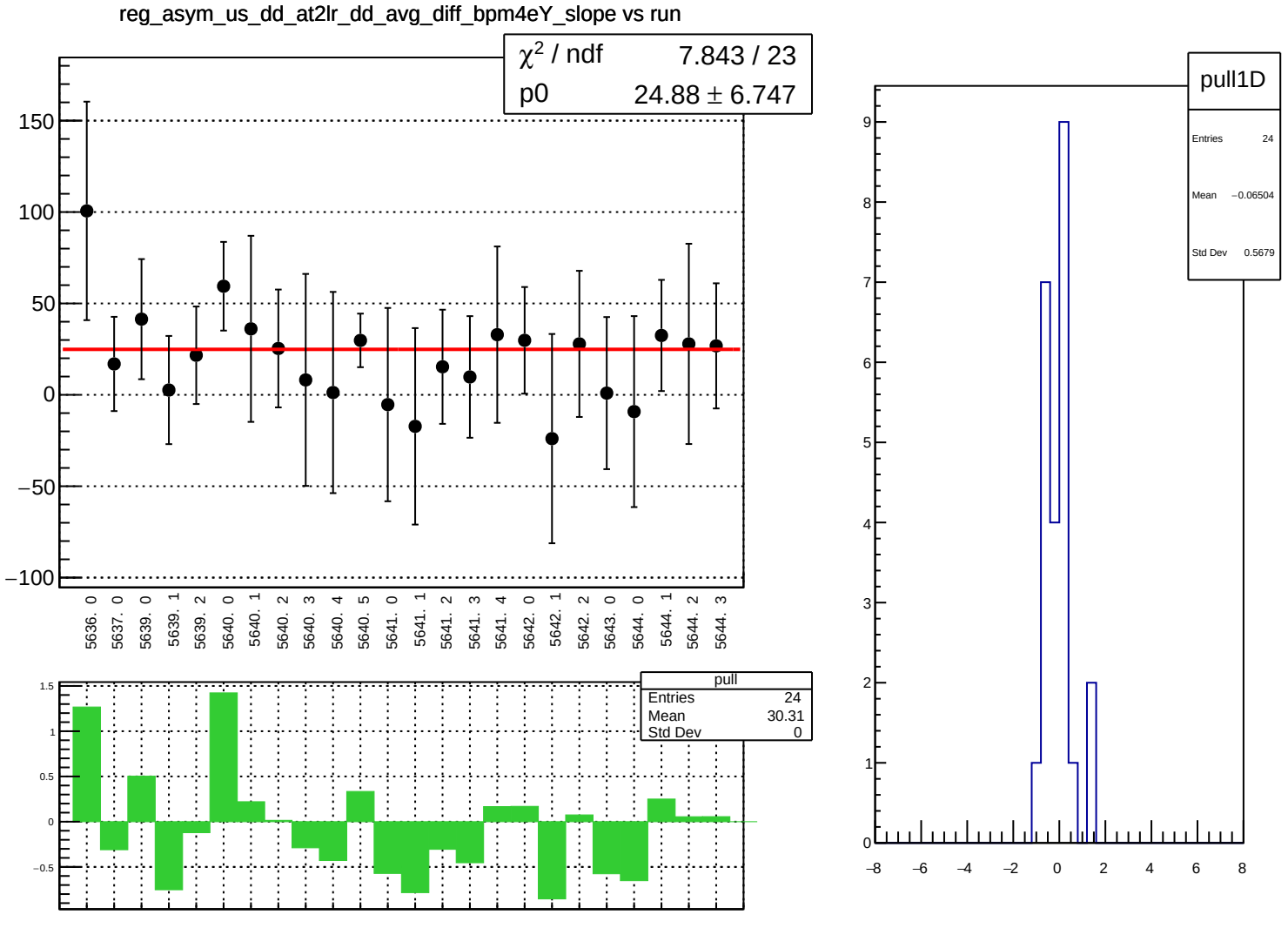

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 6.875 / 23
p0 −91.43 ± 9.516
0
−50
−100
−150
−200
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

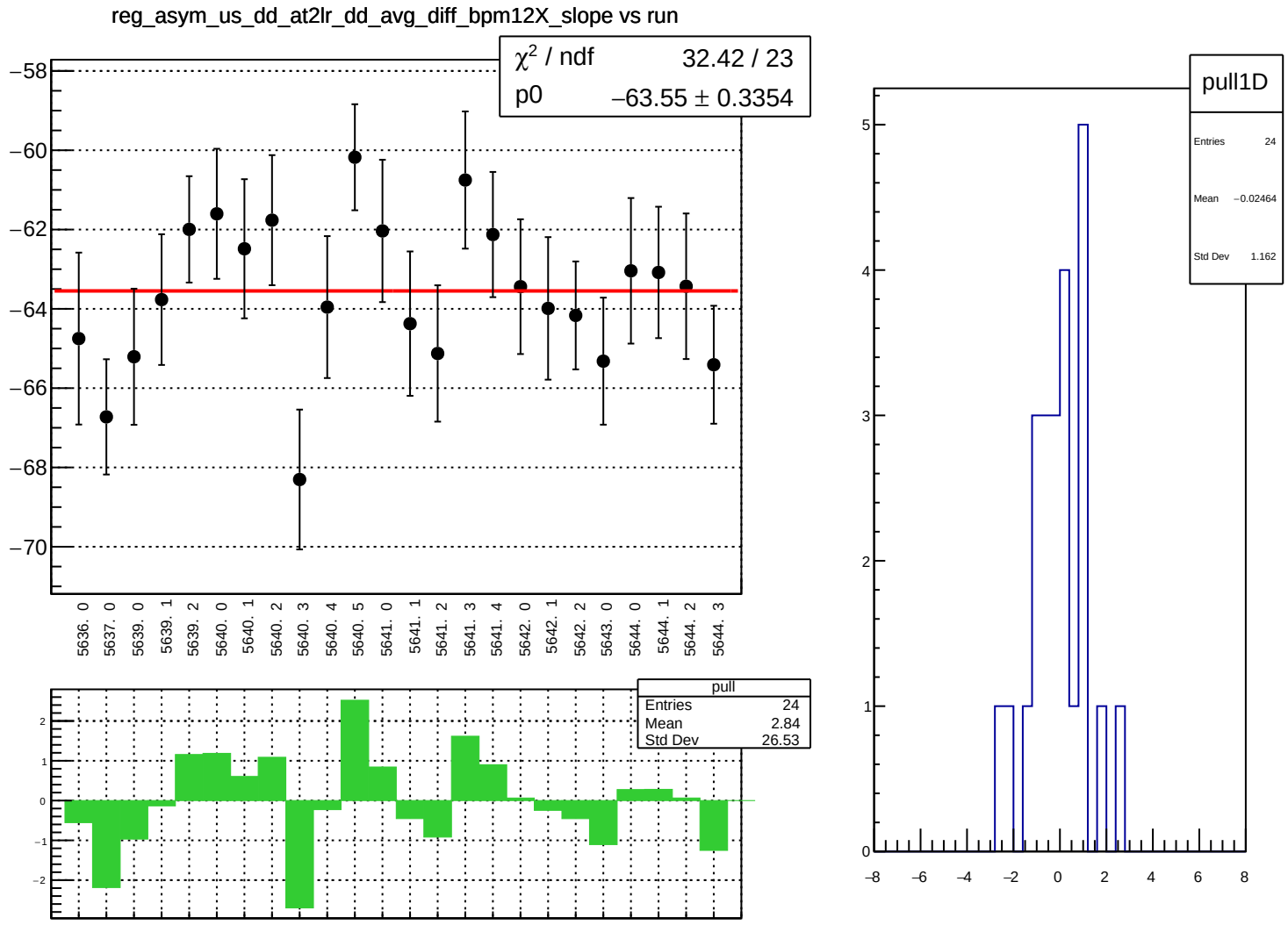

pull
Entries 24
Mean 47.3
Std Dev 0

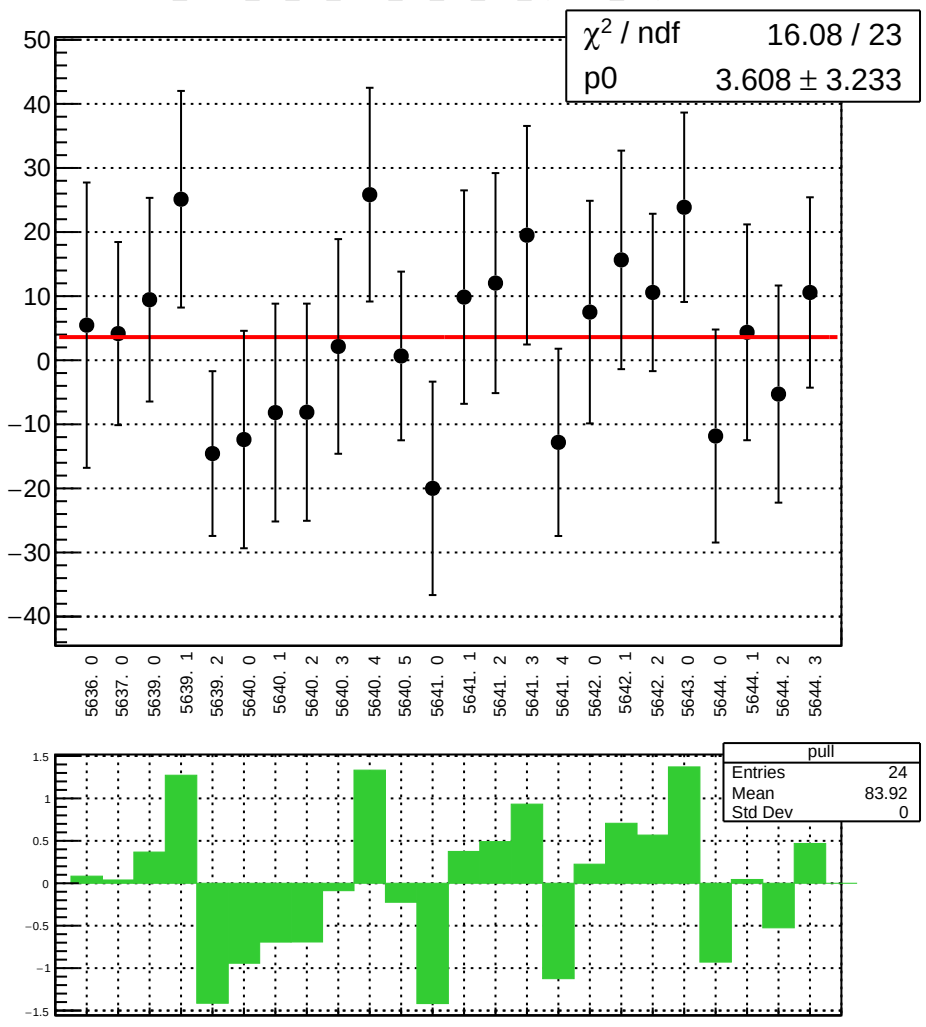

pull1D
Entries 24
Mean −0.0237
Std Dev 0.5347

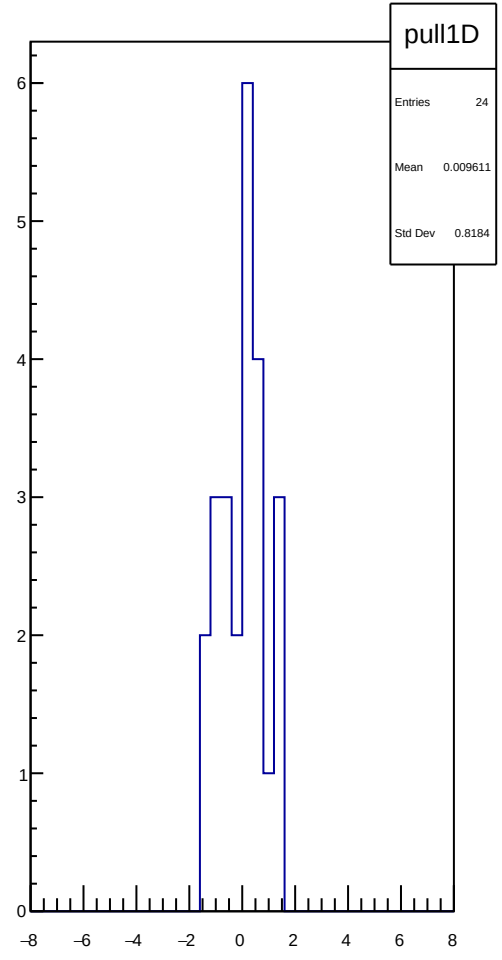

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.372 / 23
p0 7.207 ± 5.306
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 28.03
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean 0.07081
Std Dev 0.5497
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

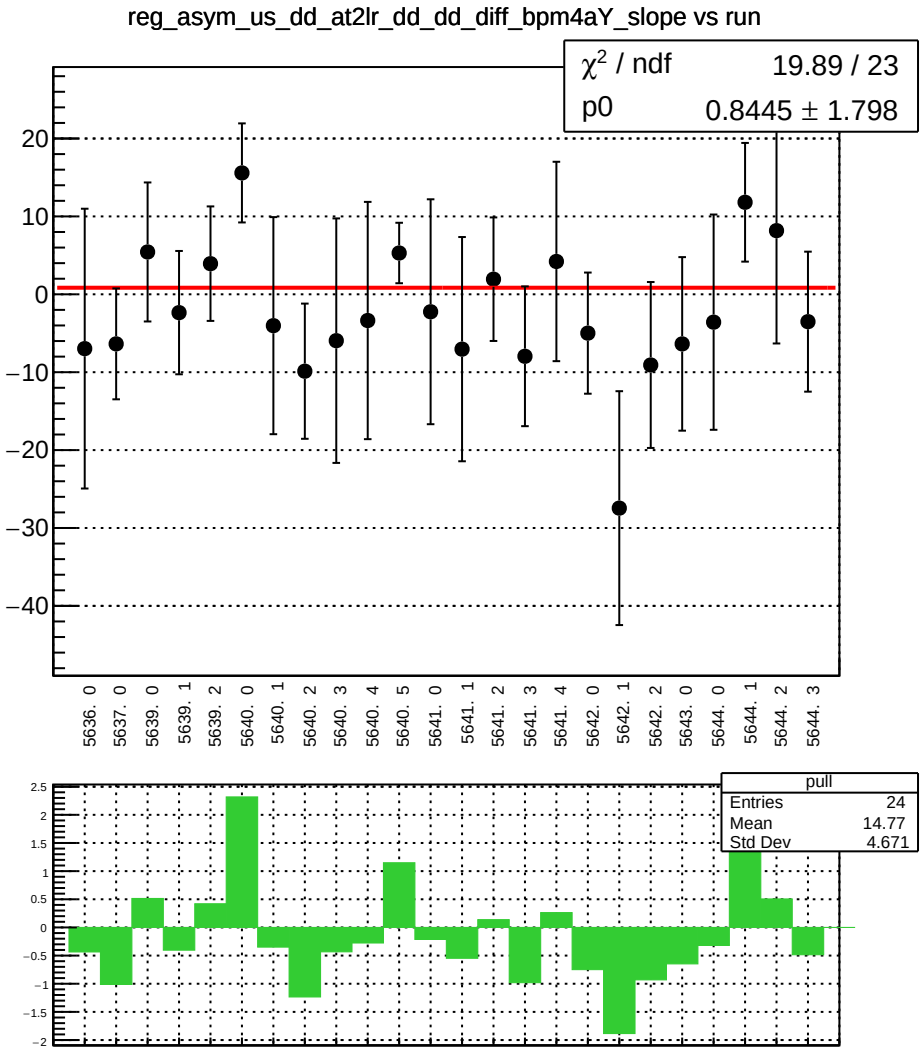

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.811 / 23
p0 −57.5 ± 8.257
40
20
0
−20
−40
−60
−80
−100
−120
−140
−160
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 46.77
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.02319
Std Dev 0.5322
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

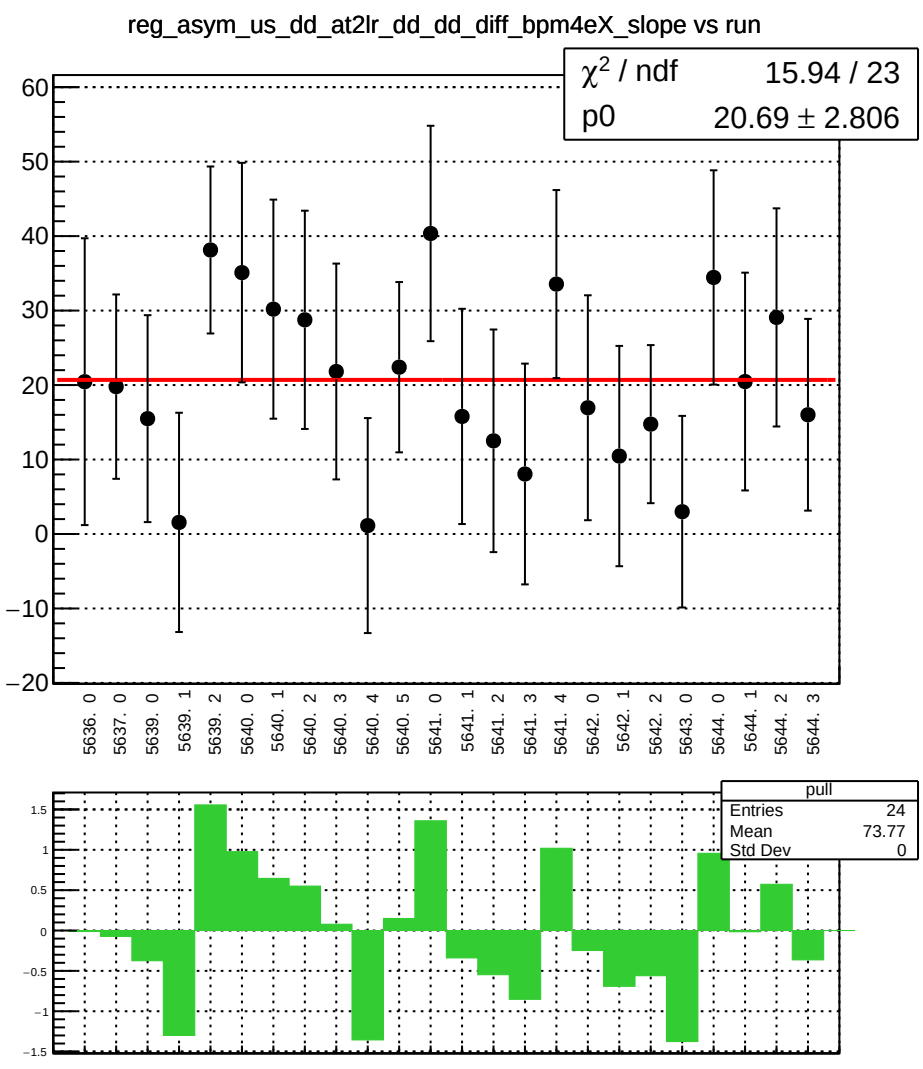

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.843 / 23
p0 24.88 ± 6.747
150
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 30.31
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 24
Mean −0.06504
Std Dev 0.5679
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

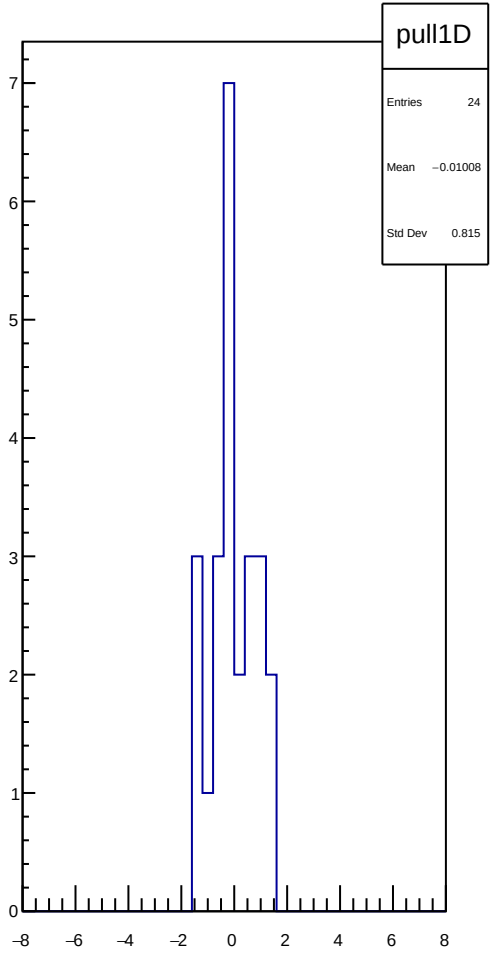

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 32.42 / 23
p0 −63.55 ± 0.3354
−58
−60
−62
−64
−66
−68
−70
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 2.84
Std Dev 26.53
pull1D
Entries 24
Mean −0.02464
Std Dev 1.162

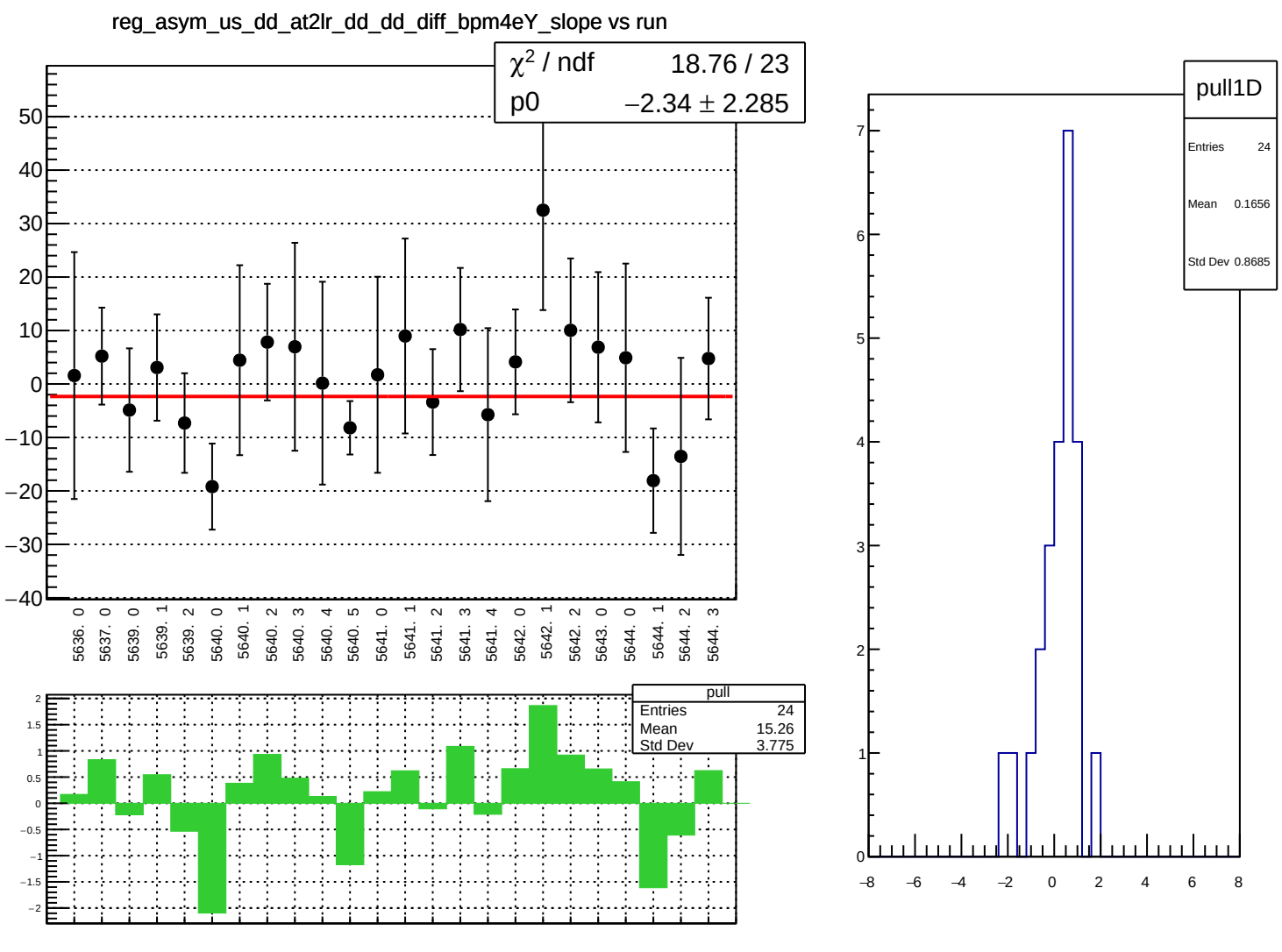

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 16.08 / 23
p0 3.608 ± 3.233
50
40
30
20
10
0
−10
−20
−30
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 83.92
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

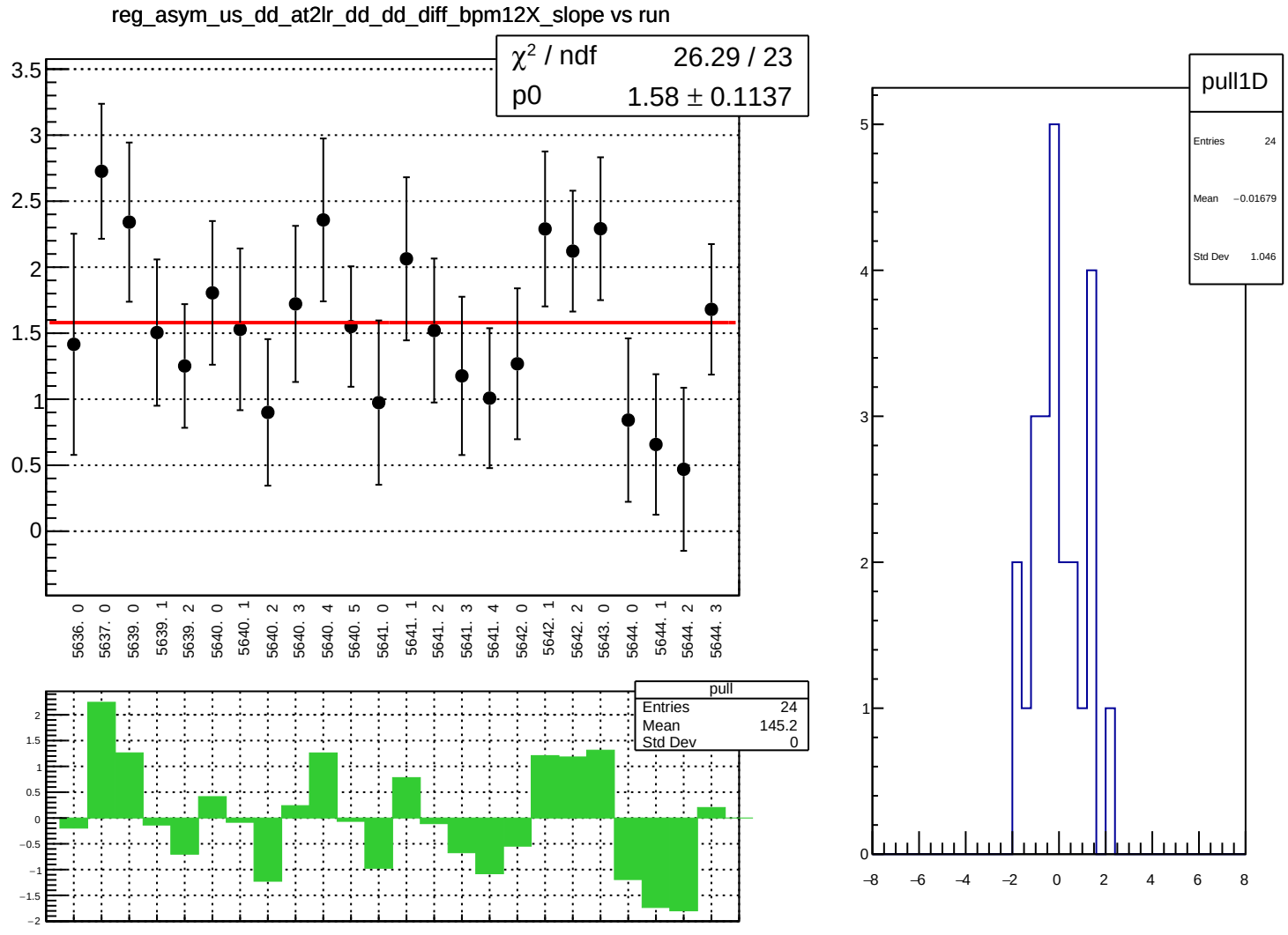

pull1D
Entries 24
Mean 0.009611
Std Dev 0.8184
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

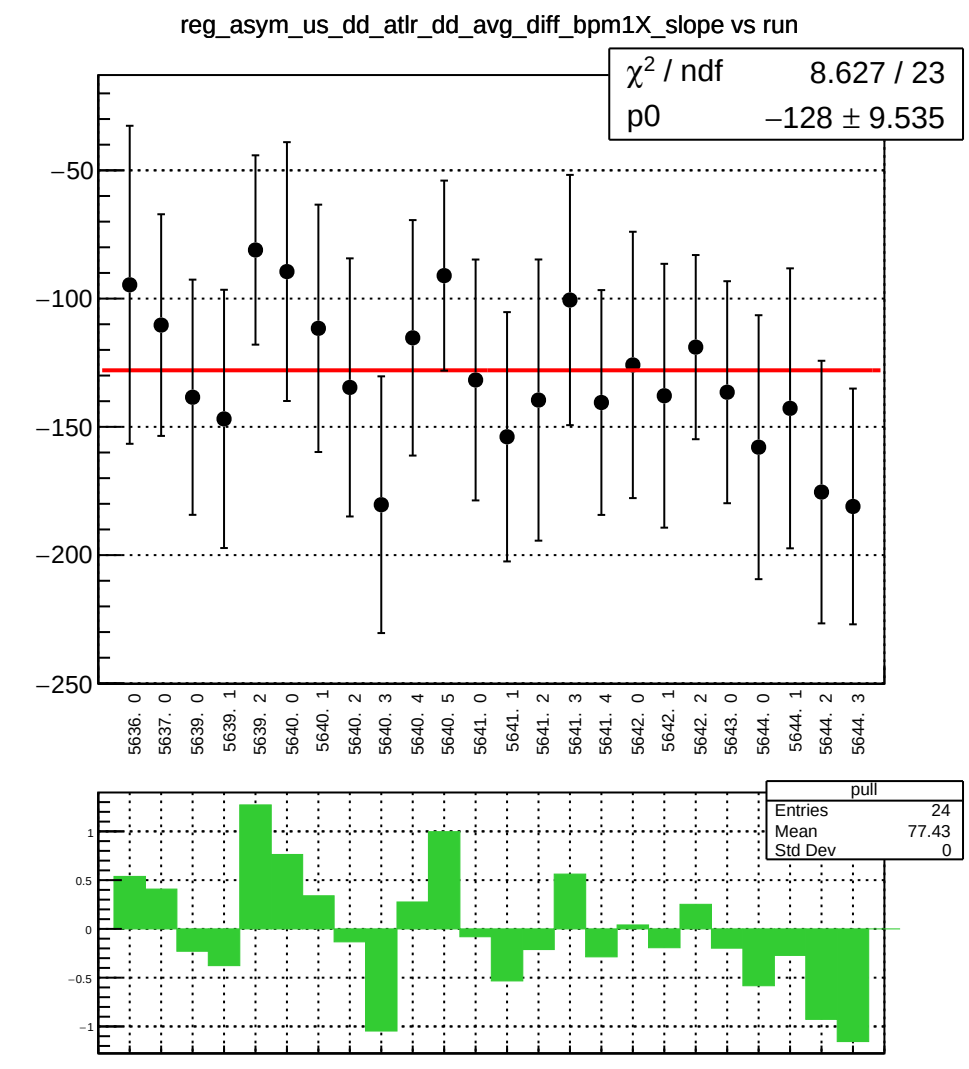

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.89 / 23
p0 0.8445 ± 1.798
20
10
0
−10
−20
−30
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 14.77
Std Dev 4.671
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.1732
Std Dev 0.8936
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

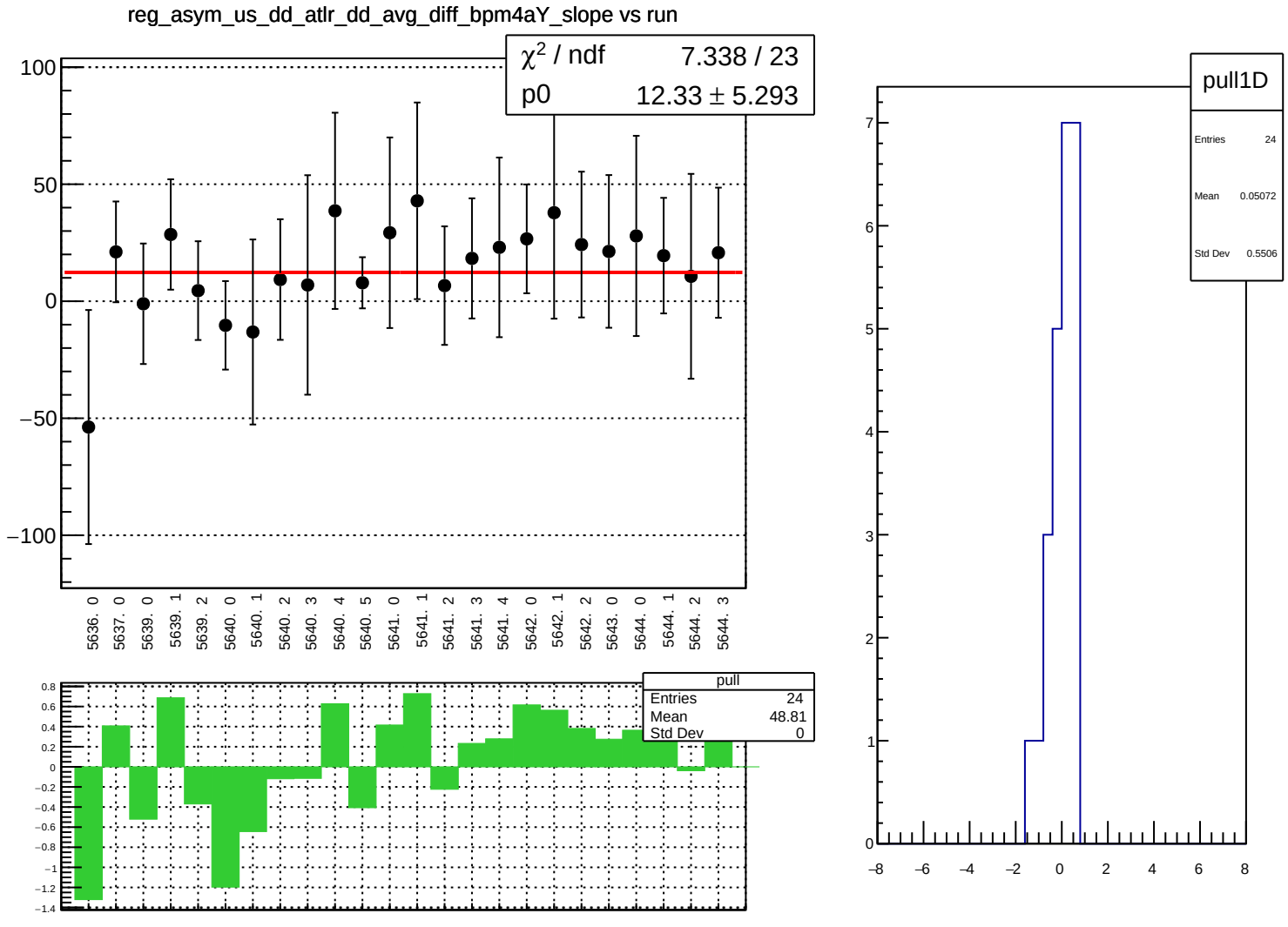

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.94 / 23
p0 20.69 ± 2.806
60
50
40
30
20
10
0
−10
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 73.77
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

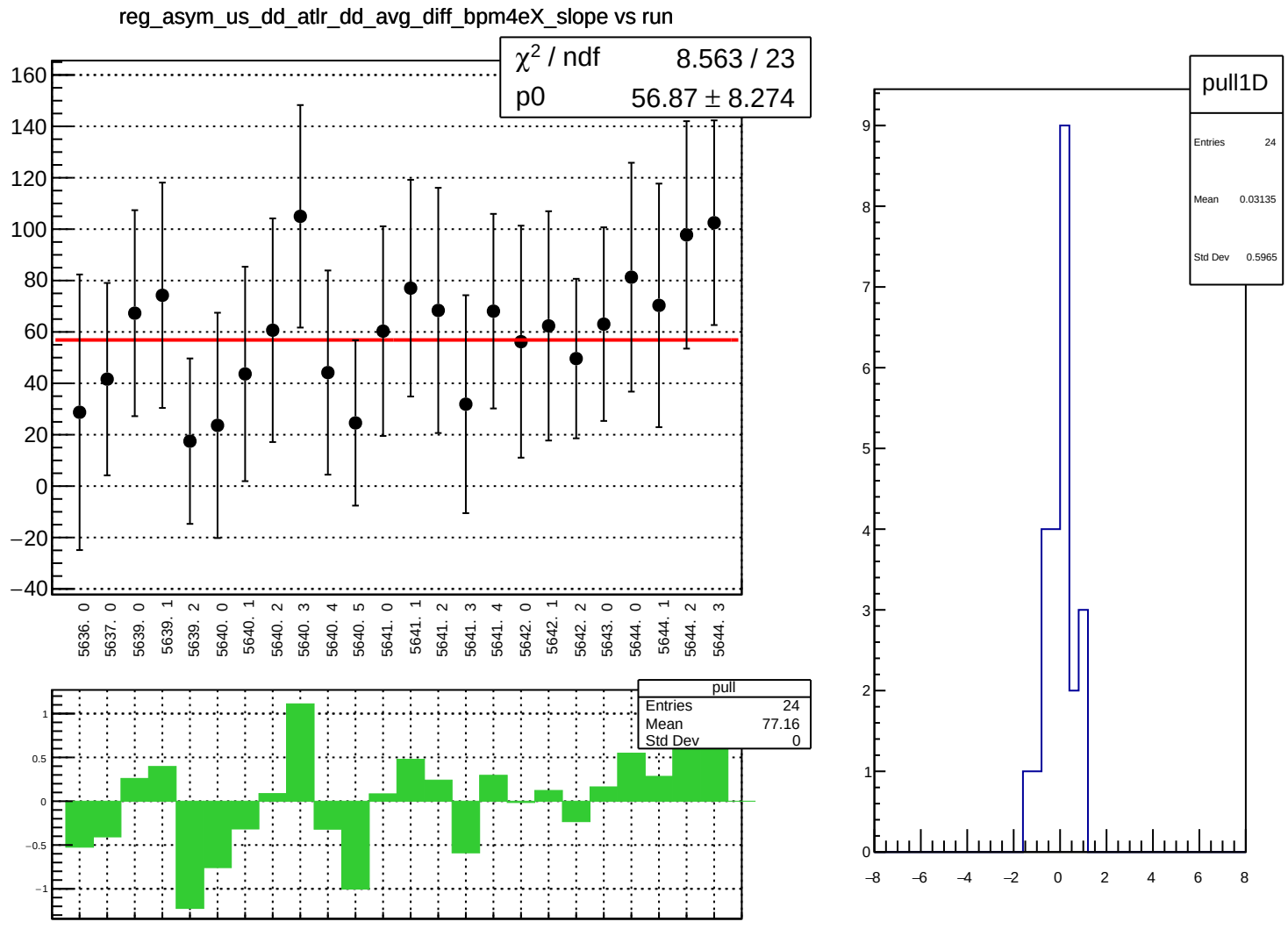

pull1D
Entries 24
Mean −0.01008
Std Dev 0.815
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

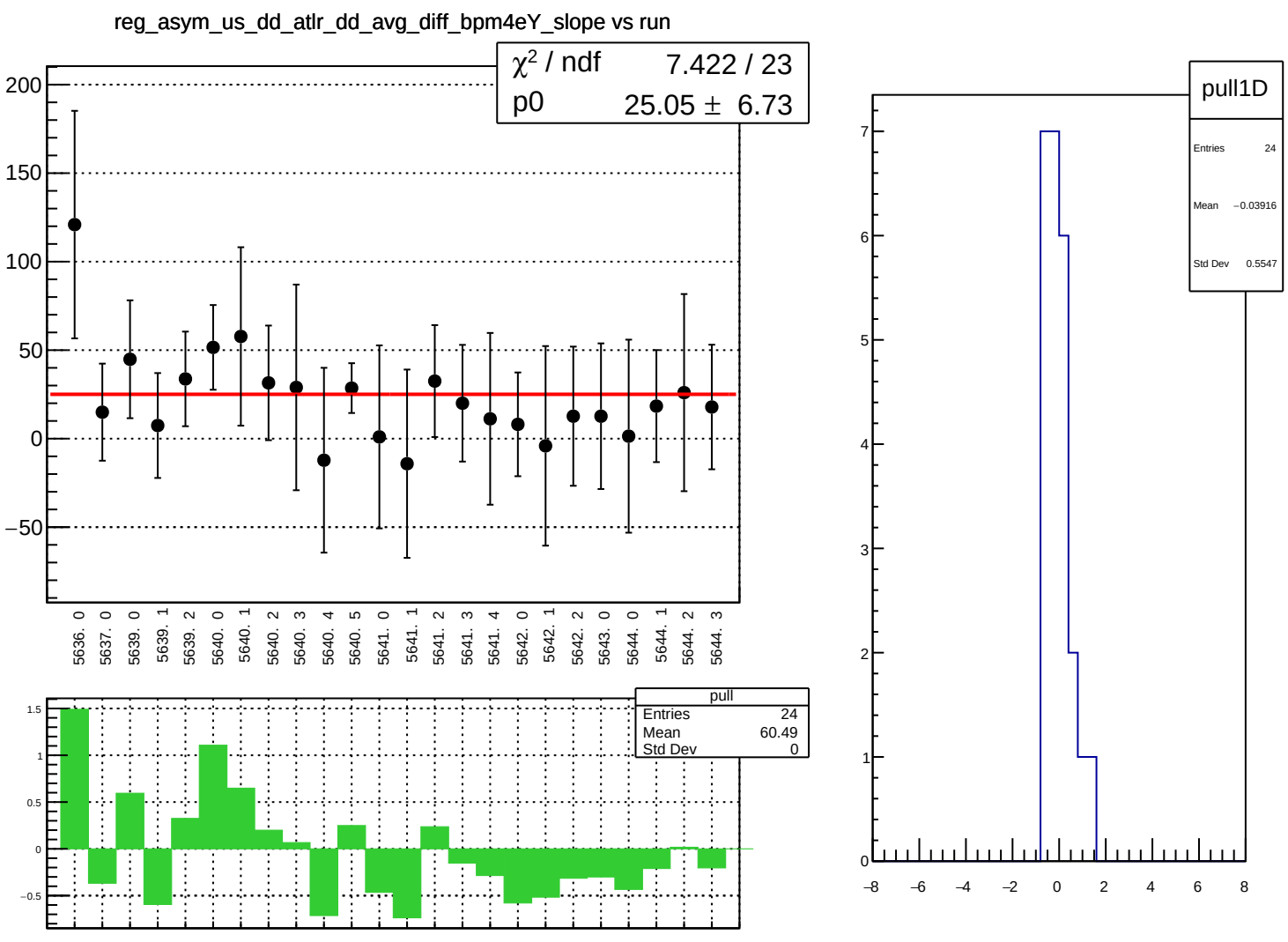

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.76 / 23
p0 −2.34 ± 2.285
50
40
30
20
10
0
−10
−20
−30
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 15.26
Std Dev 3.775
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.1656
Std Dev 0.8685
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

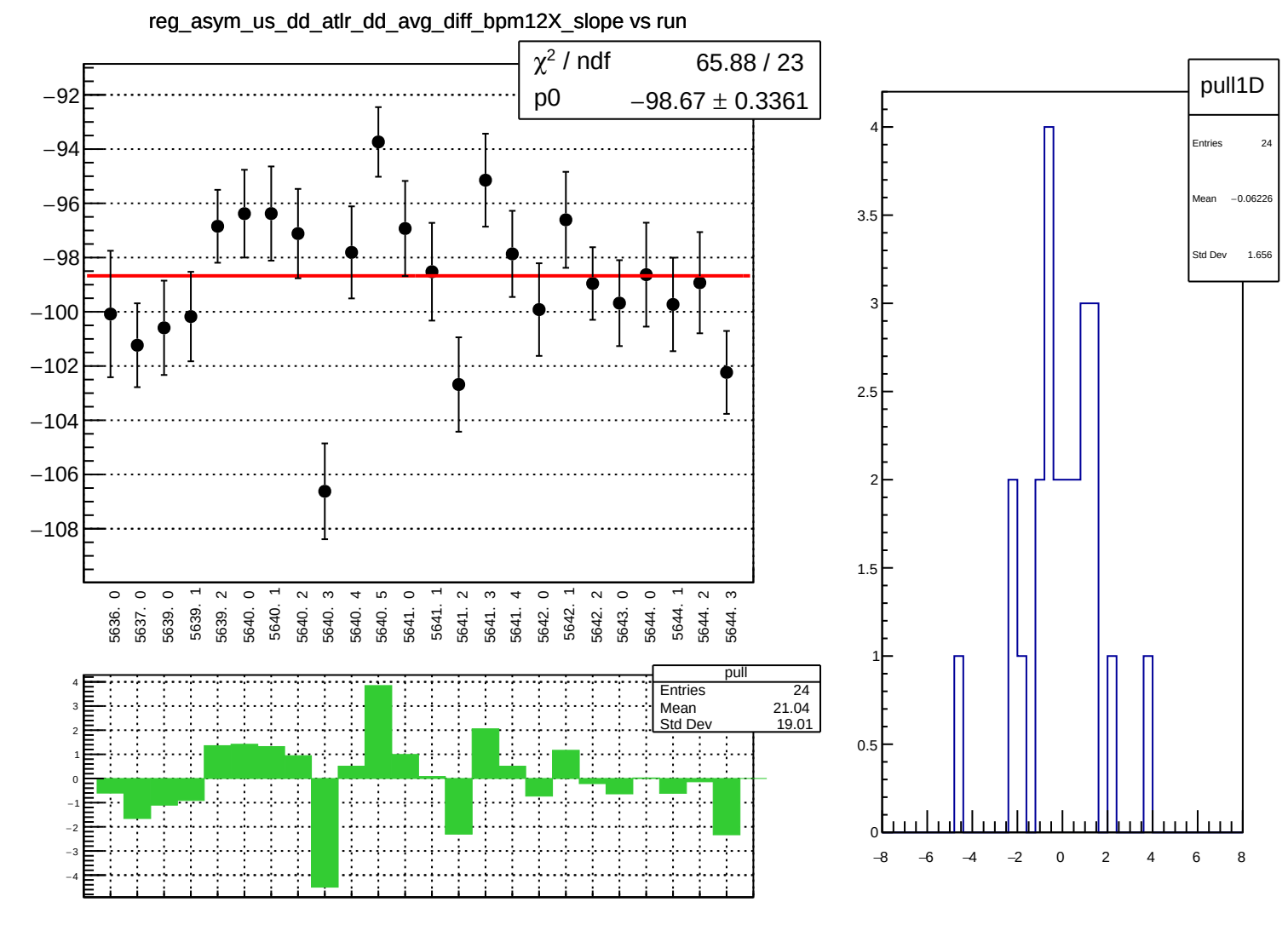

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 26.29 / 23
p0 1.58 ± 0.1137
3.5
3
2.5
2
1.5
1
0.5
0
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 145.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.01679
Std Dev 1.046
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

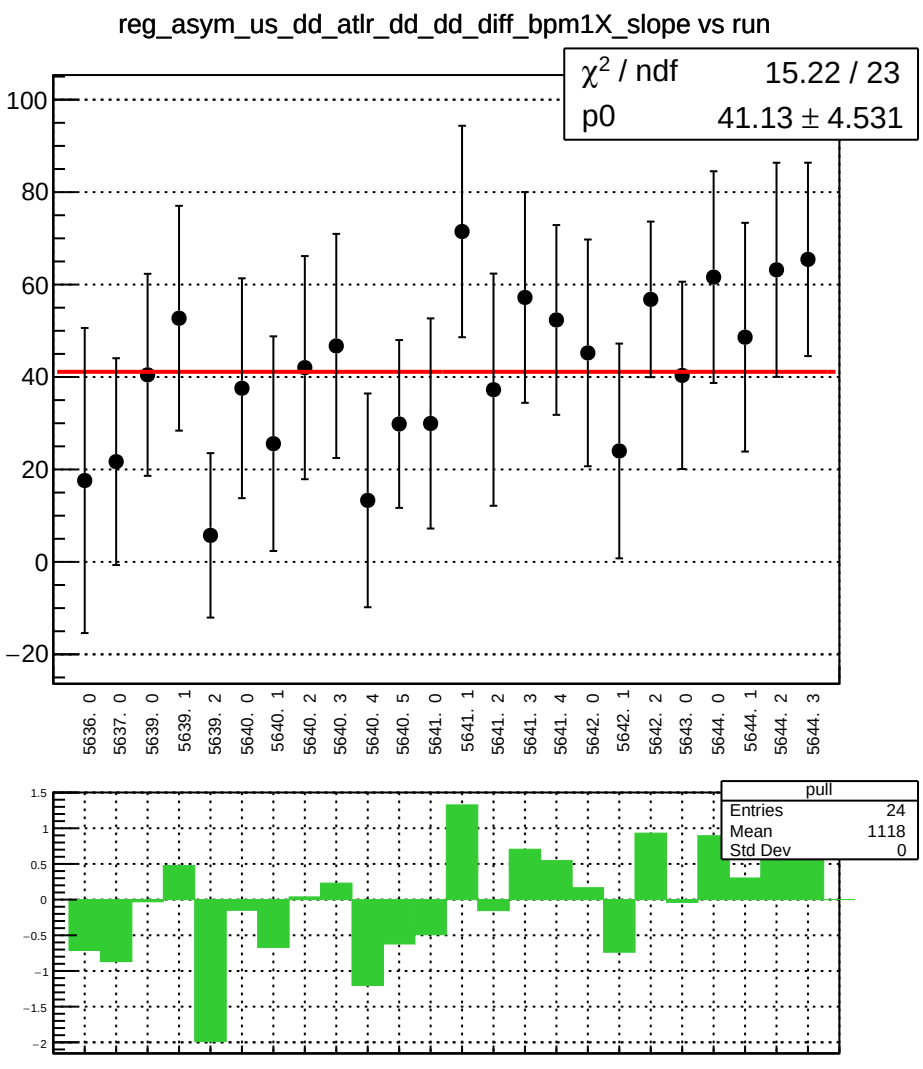

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 8.627 / 23
p0 −128 ± 9.535
−50
−100
−150
−200
−250
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 77.43
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.03235
Std Dev 0.5987
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

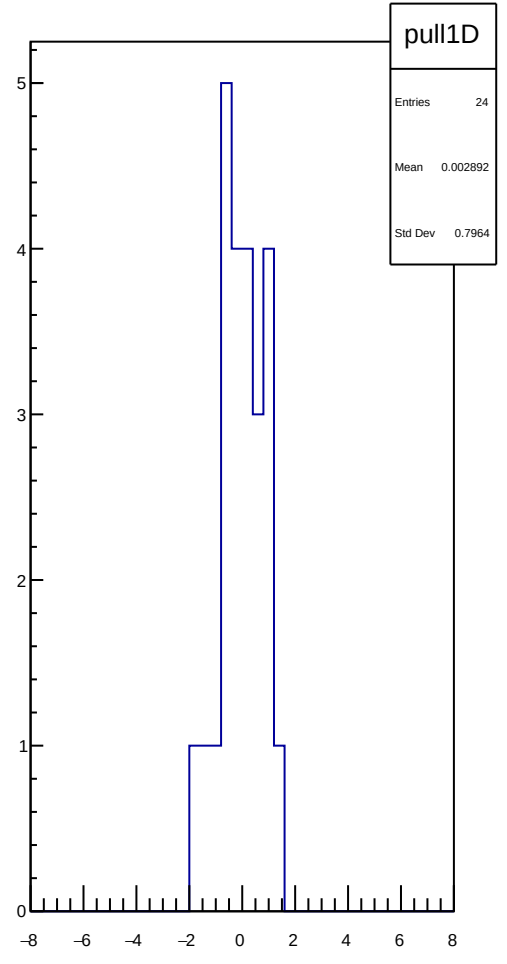

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.338 / 23
p0 12.33 ± 5.293
100
50
0
−50
−100
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 48.81
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
pull1D
Entries 24
Mean 0.05072
Std Dev 0.5506
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

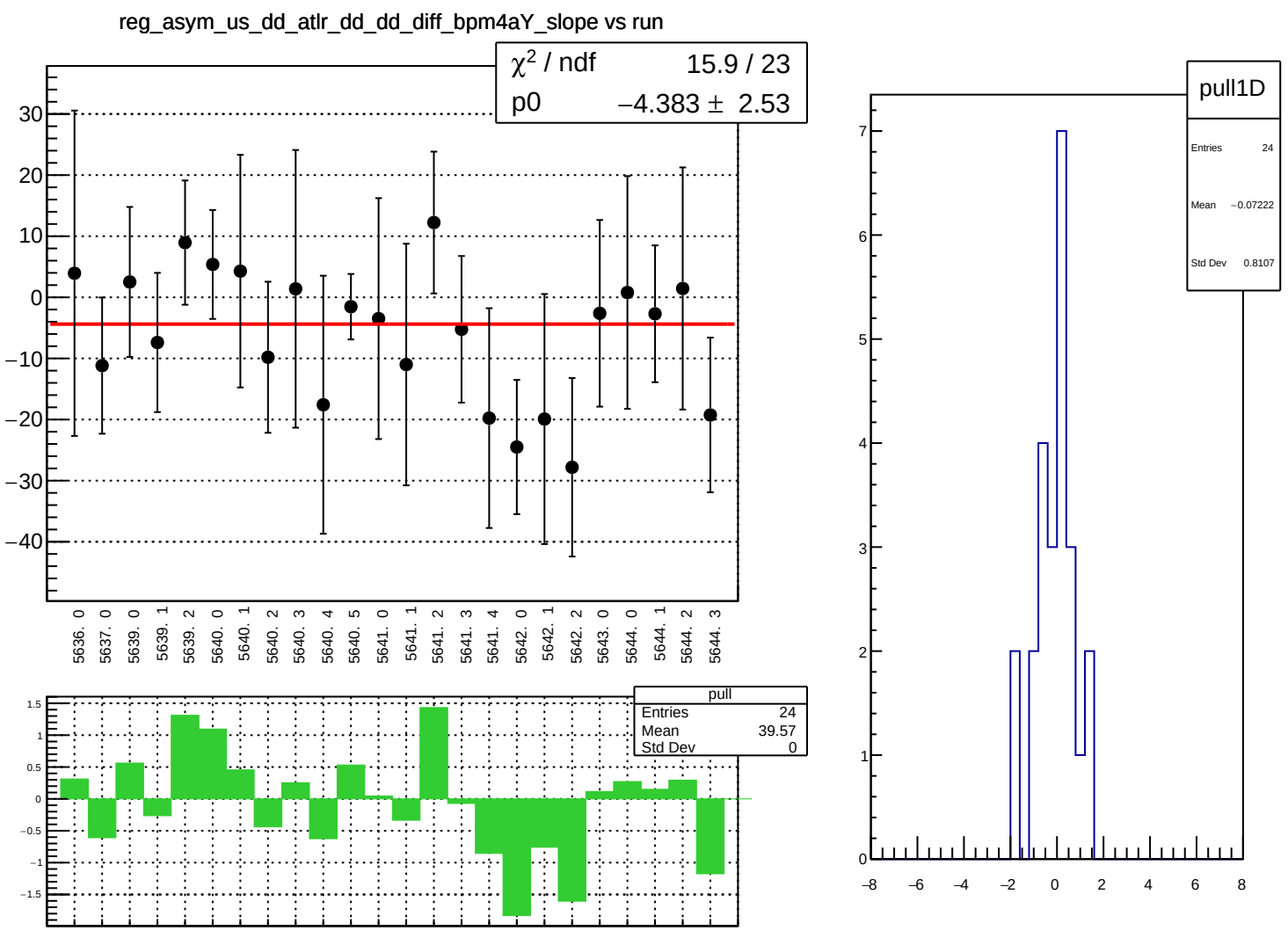

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.563 / 23
p0 56.87 ± 8.274
160
140
120
100
80
60
40
20
0
−20
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 77.16
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.03135
Std Dev 0.5965
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

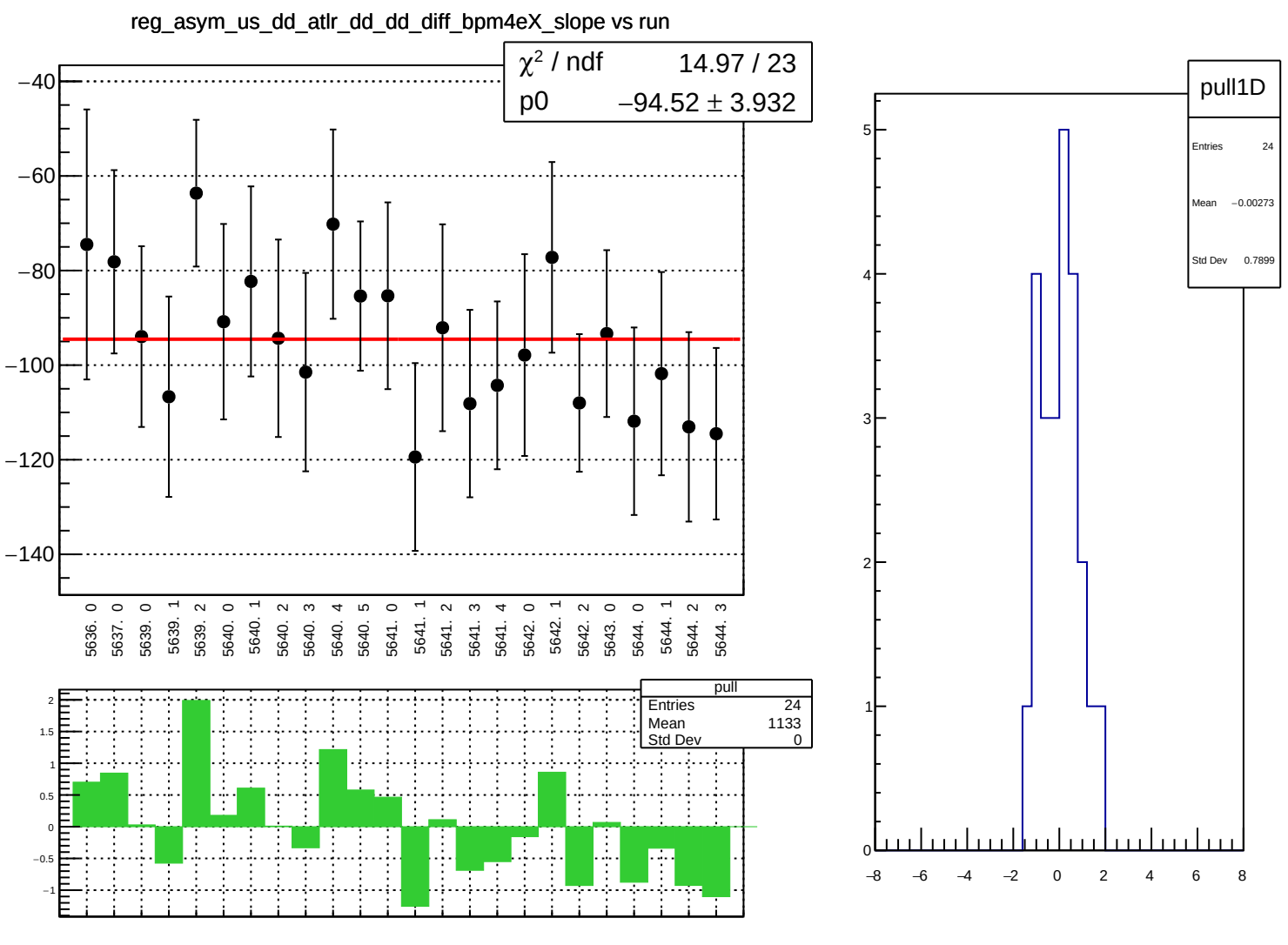

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.422 / 23
p0 25.05 ± 6.73
200
150
100
50
0
−50
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 60.49
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 24
Mean −0.03916
Std Dev 0.5547
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

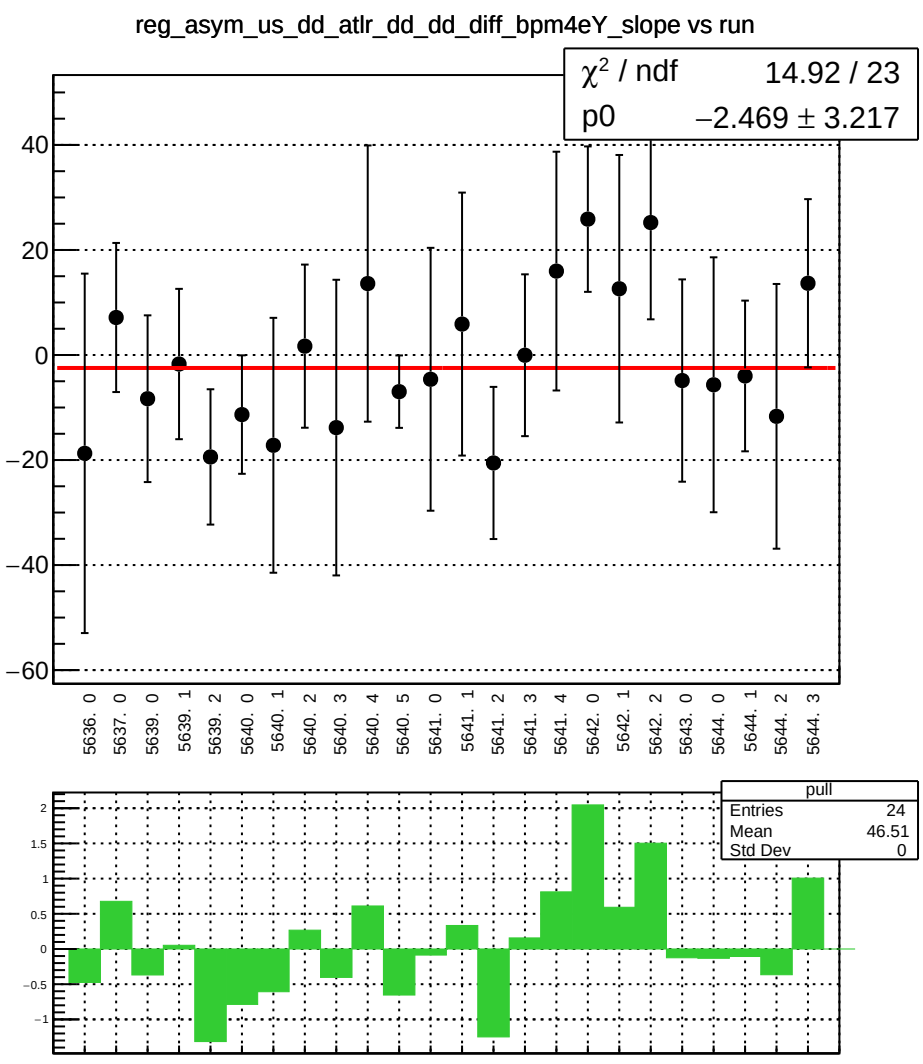

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 65.88 / 23
p0 −98.67 ± 0.3361
−92
−94
−96
−98
−100
−102
−104
−106
−108
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 21.04
Std Dev 19.01
pull1D
Entries 24
Mean −0.06226
Std Dev 1.656

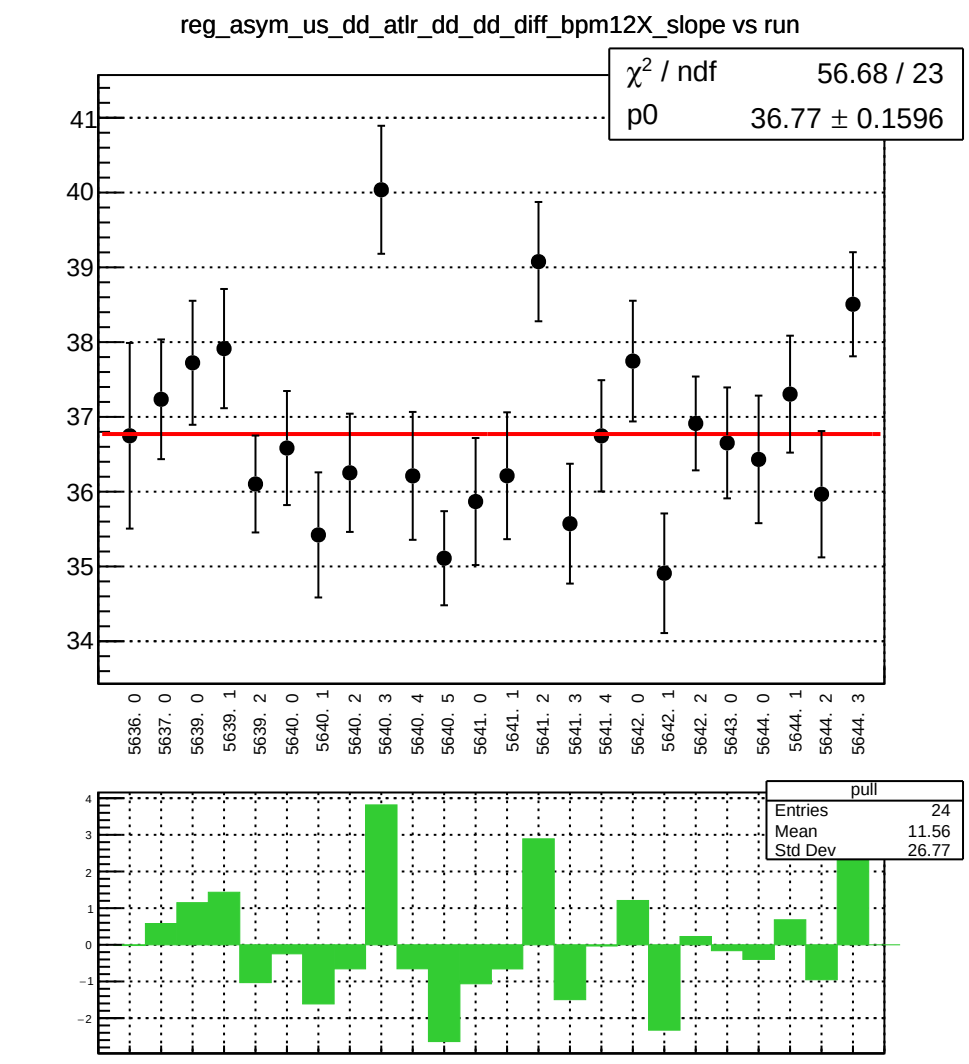

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 15.22 / 23
p0 41.13 ± 4.531
100
80
60
40
20
0
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 1118
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

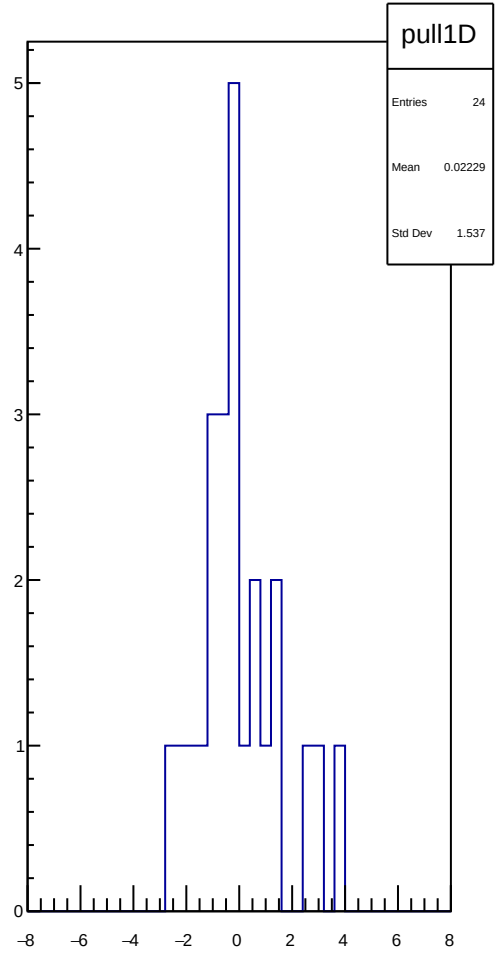

pull1D
Entries 24
Mean 0.002892
Std Dev 0.7964
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

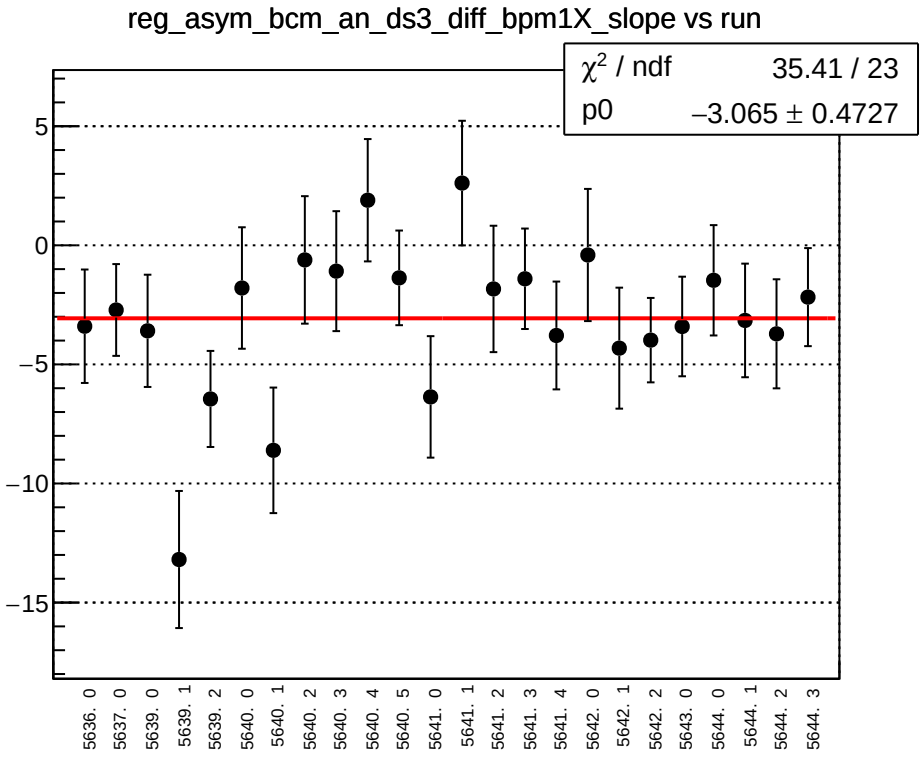

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.9 / 23
p0 −4.383 ± 2.53
30
20
10
0
−10
−20
−30
−40
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 39.57
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.07222
Std Dev 0.8107
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

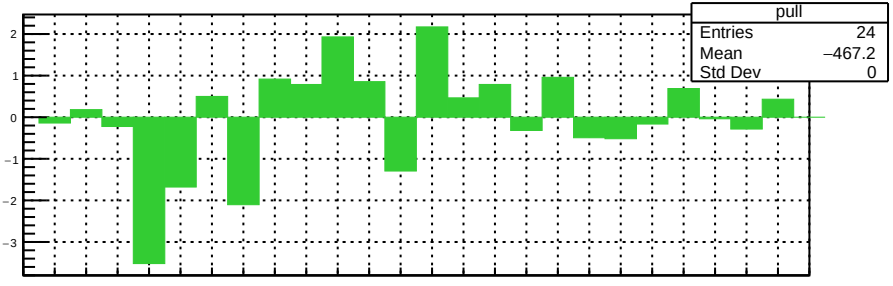

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.97 / 23
p0 −94.52 ± 3.932
−40
−60
−80
−100
−120
−140
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 1133
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean −0.00273
Std Dev 0.7899
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

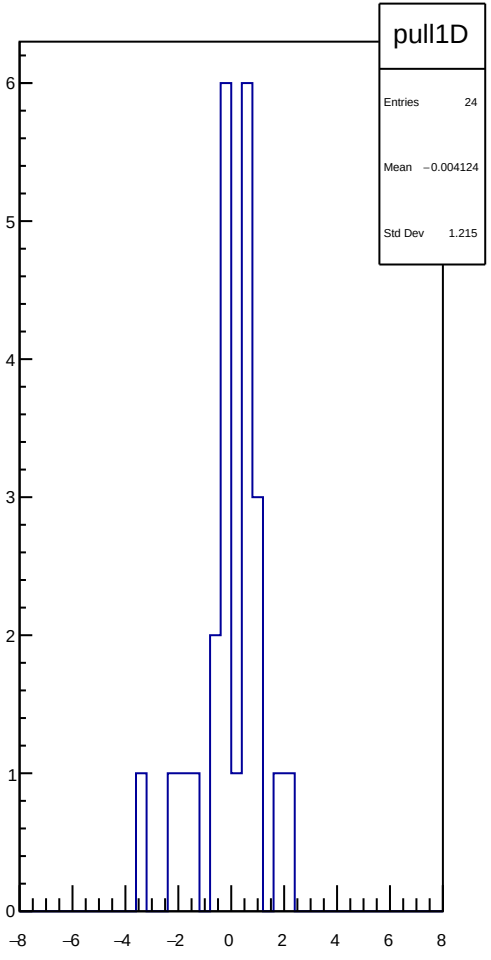

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.92 / 23
p0 −2.469 ± 3.217
40
20
0
−20
−40
−60
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 46.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 24
Mean 0.05779
Std Dev 0.7864
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

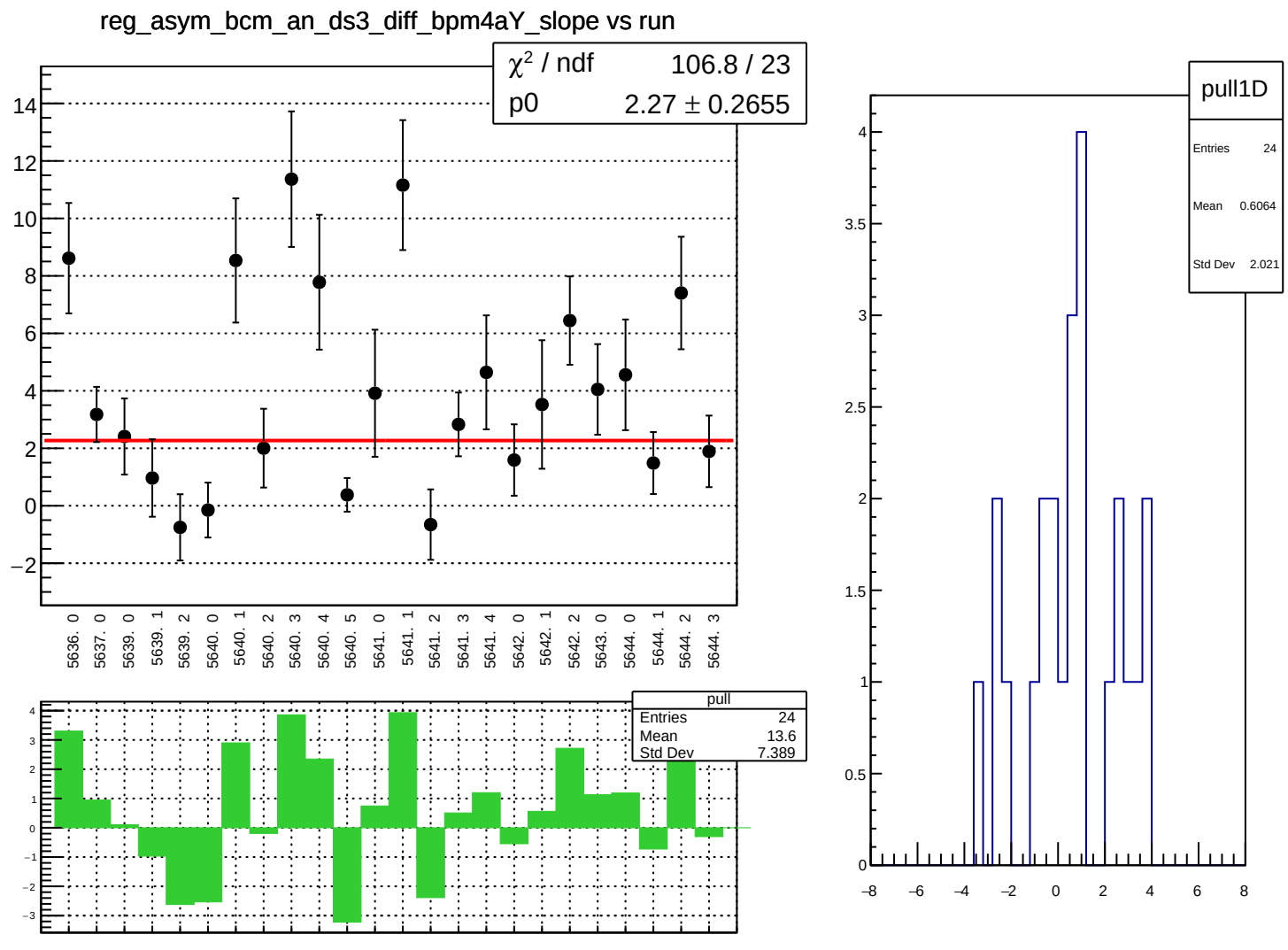

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 56.68 / 23
p0 36.77 ± 0.1596
41
40
39
38
37
36
35
34
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 11.56
Std Dev 26.77
4
3
2
1
0
−1
−2

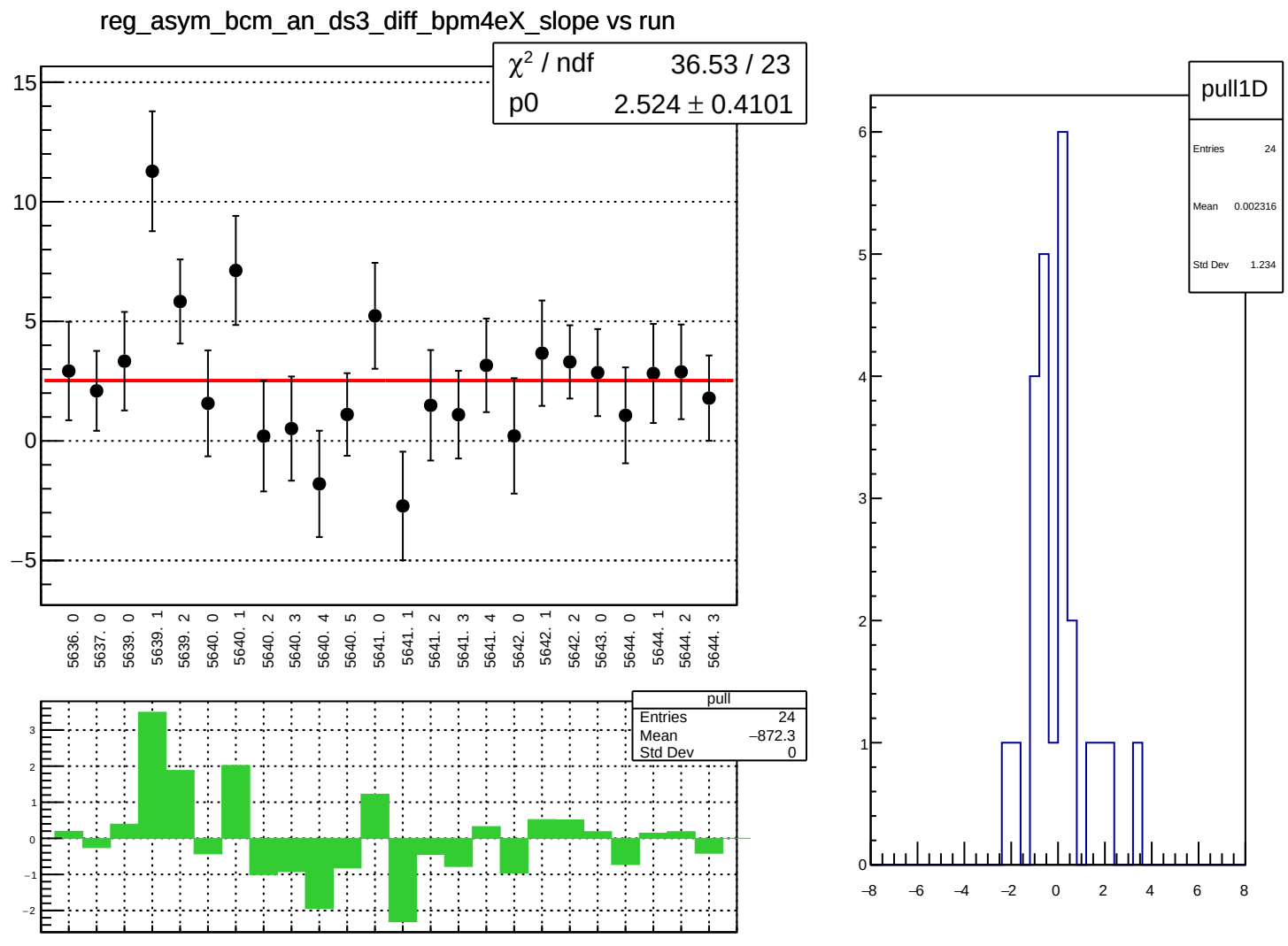

pull1D
Entries 24
Mean 0.02229
Std Dev 1.537
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

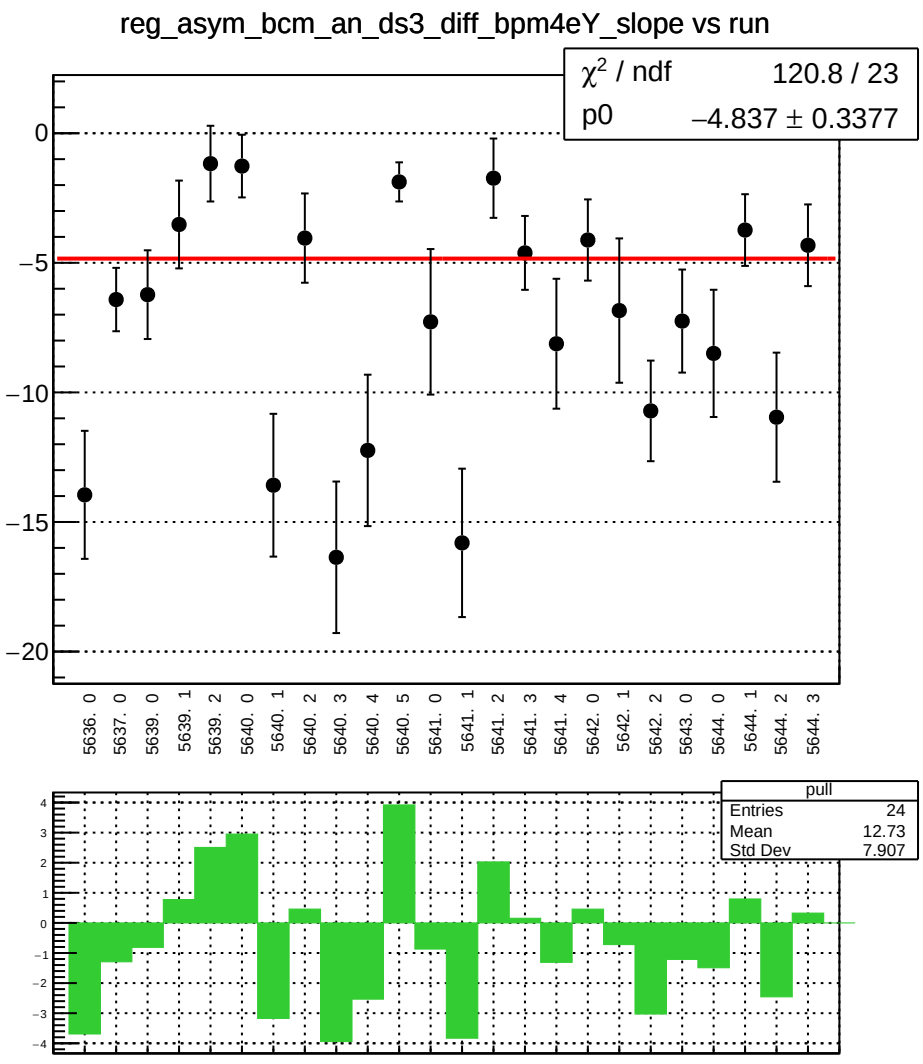

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 35.41 / 23
p0 −3.065 ± 0.4727
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

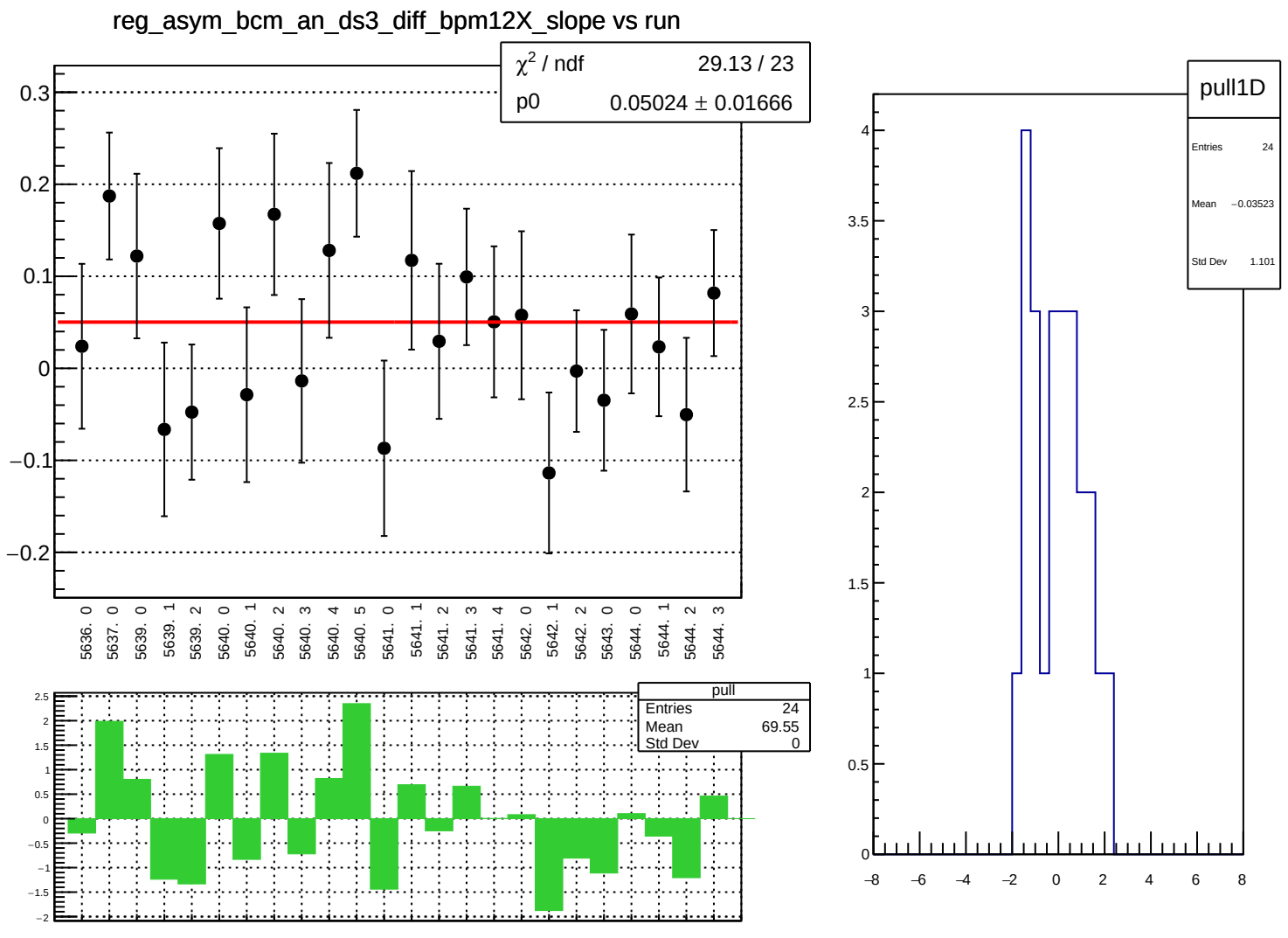

pull
Entries 24
Mean −467.2
Std Dev 0
2
1
0
−1
−2
−3

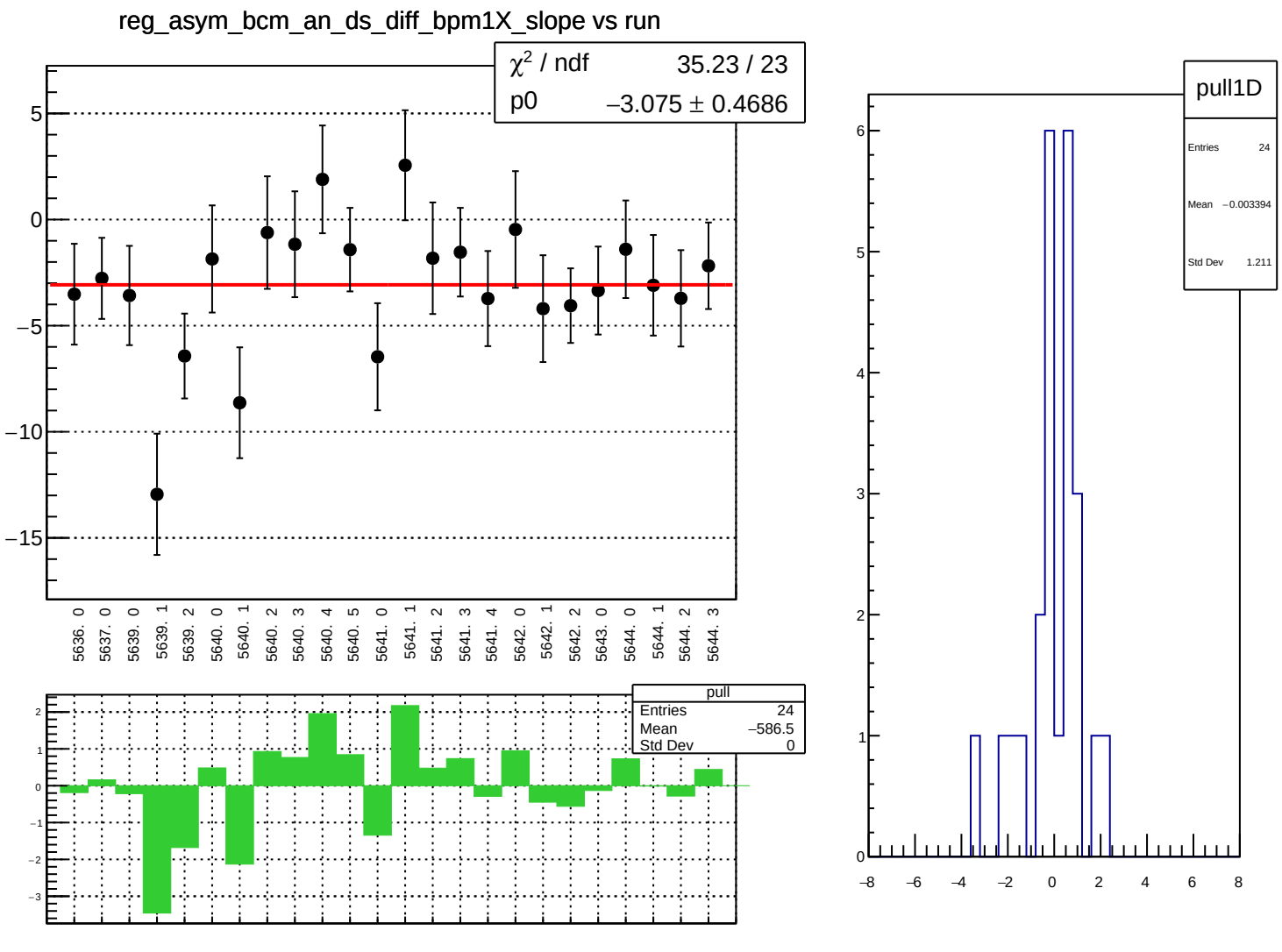

pull1D
Entries 24
Mean −0.004124
Std Dev 1.215
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

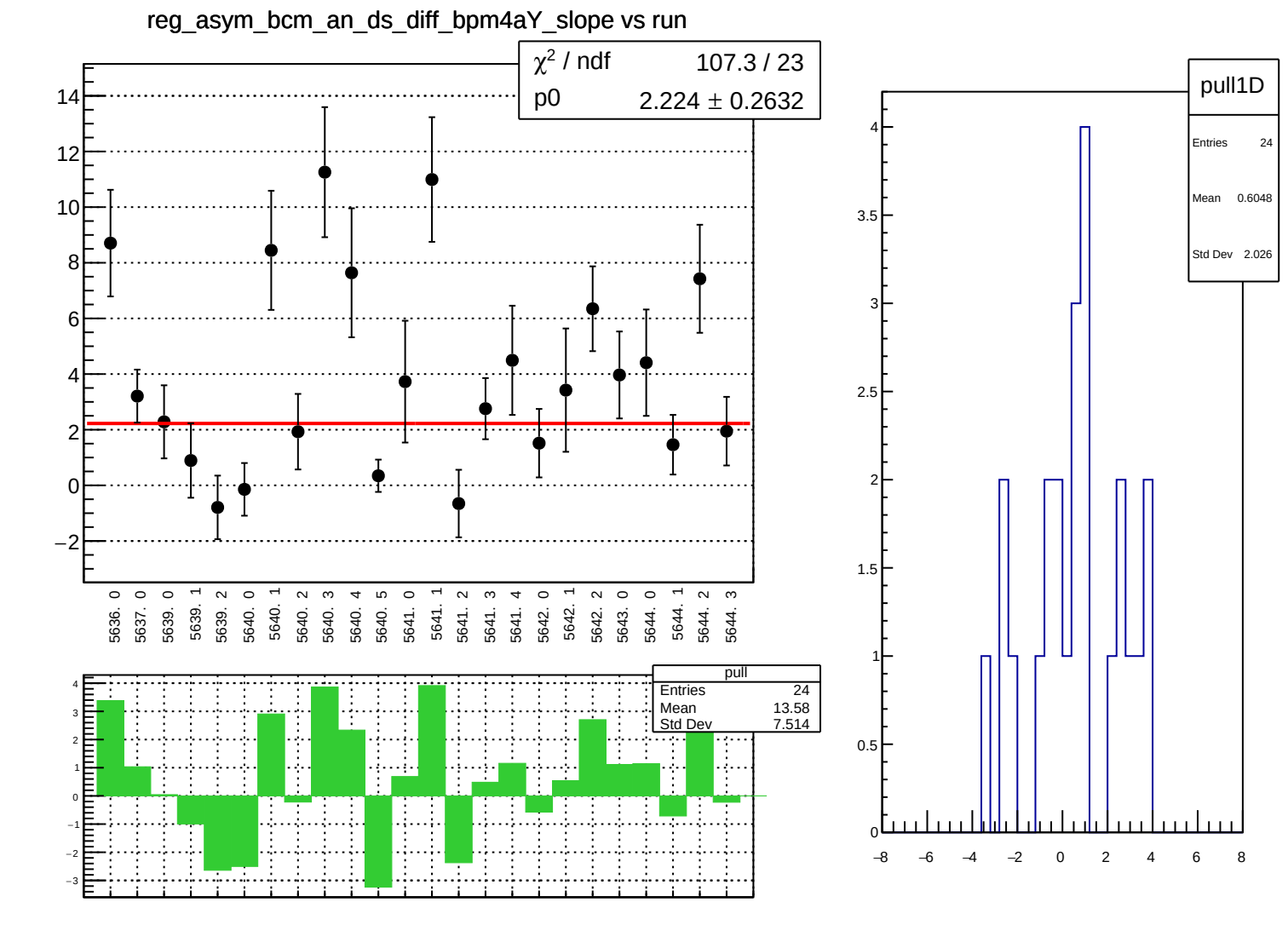

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 106.8 / 23
p0 2.27 ± 0.2655
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 13.6
Std Dev 7.389
pull1D
Entries 24
Mean 0.6064
Std Dev 2.021

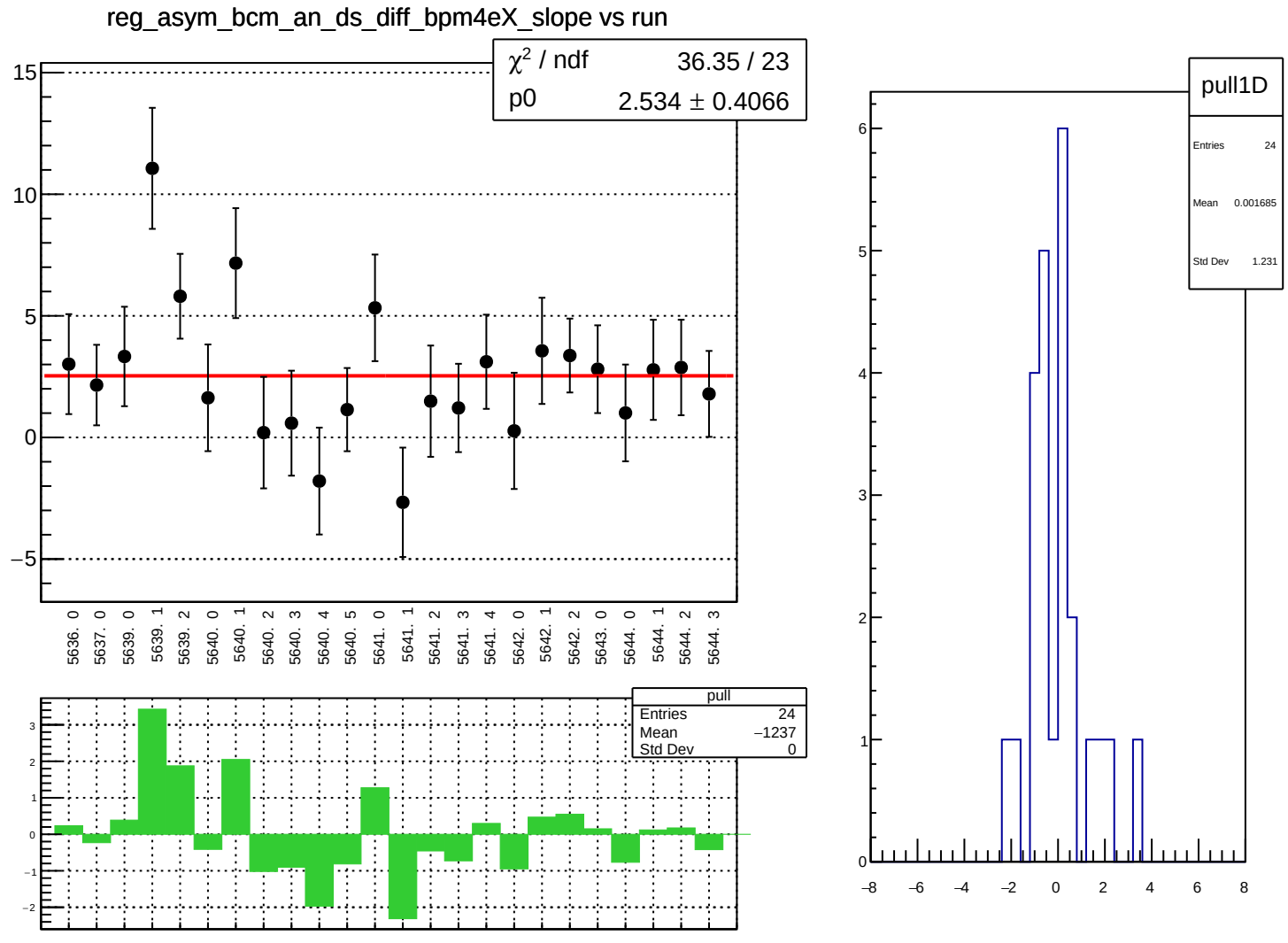

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 36.53 / 23
p0 2.524 ± 0.4101
15
10
5
0
−5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −872.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 24
Mean 0.002316
Std Dev 1.234
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

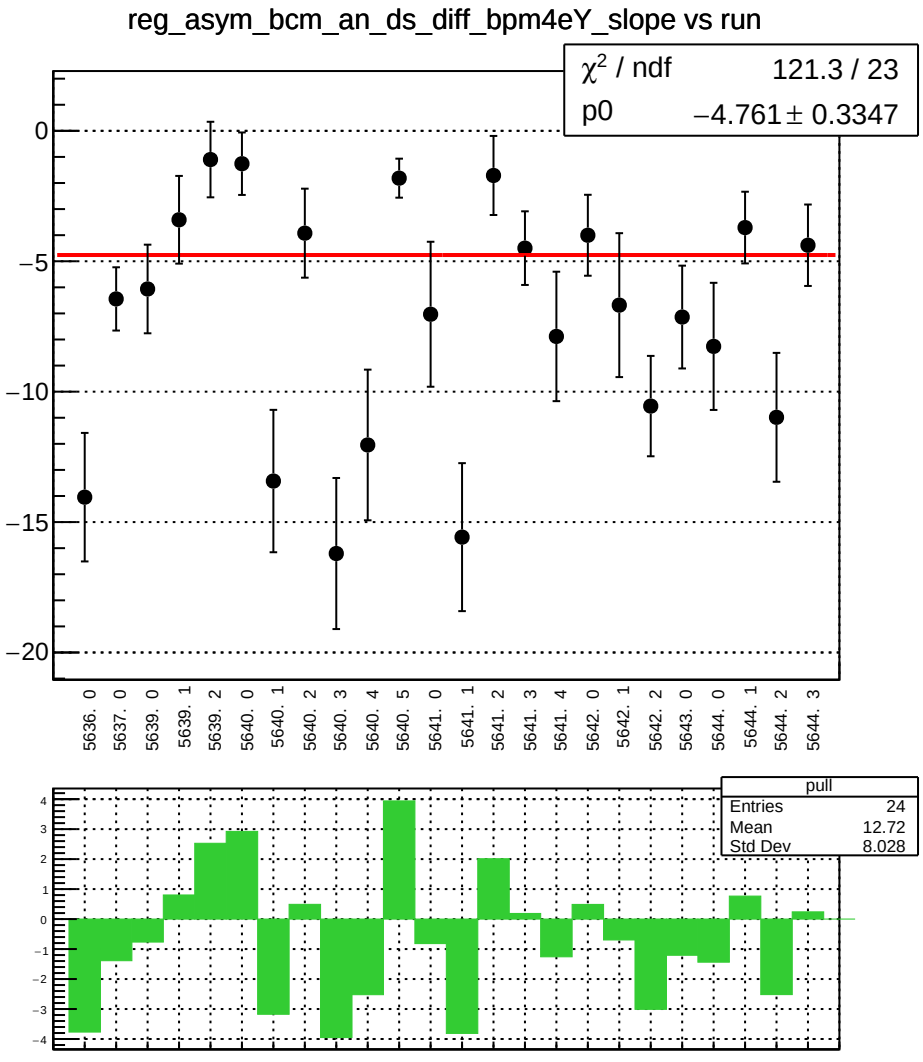

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 120.8 / 23
p0 −4.837 ± 0.3377
0
−5
−10
−15
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 12.73
Std Dev 7.907
pull1D
Entries 24
Mean −0.6661
Std Dev 2.143

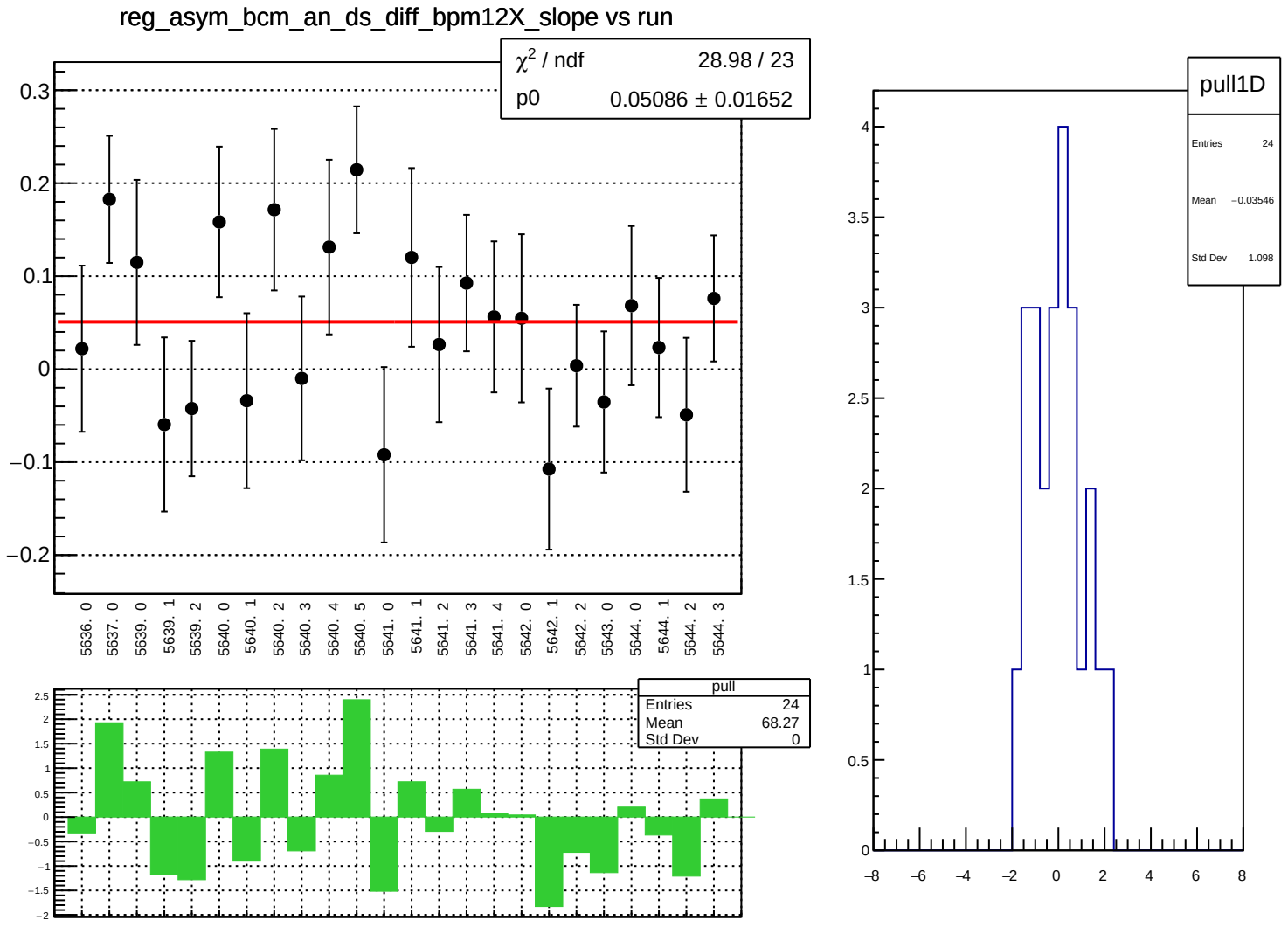

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 29.13 / 23
p0 0.05024 ± 0.01666
0.3
0.2
0.1
0
−0.1
−0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 69.55
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.03523
Std Dev 1.101
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

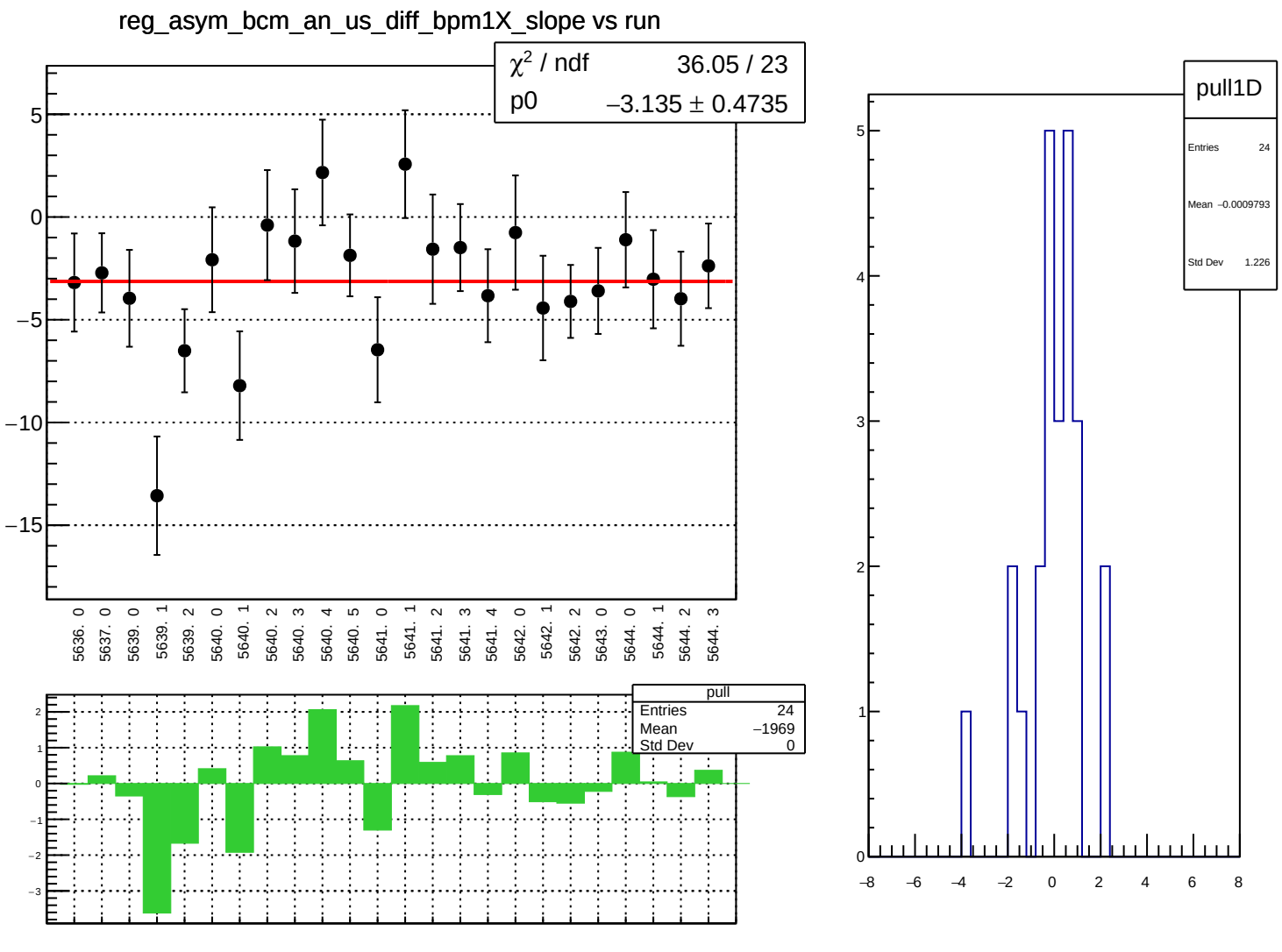

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 35.23 / 23
p0 −3.075 ± 0.4686
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −586.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean −0.003394
Std Dev 1.211
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

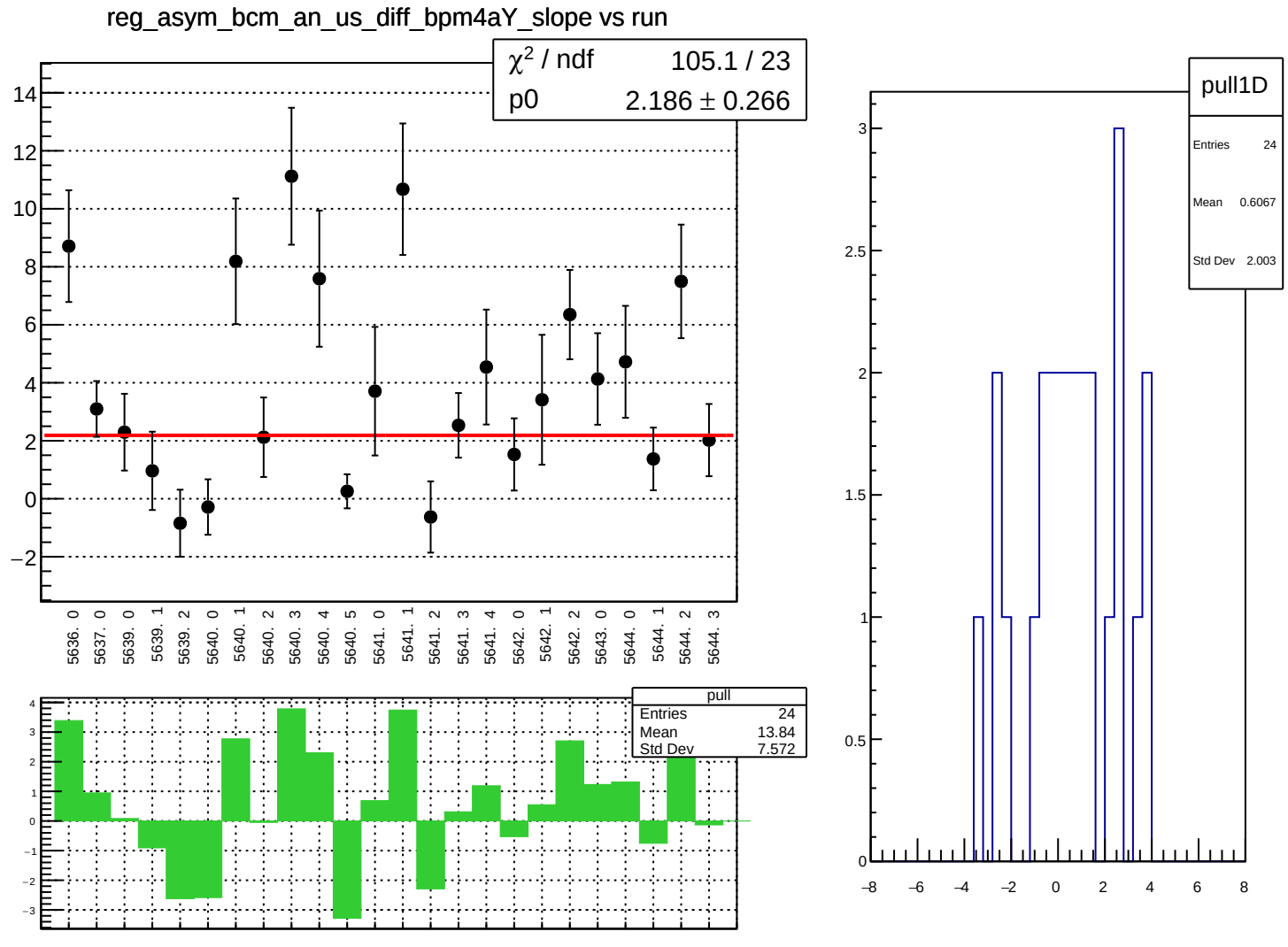

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 107.3 / 23
p0 2.224 ± 0.2632
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 13.58
Std Dev 7.514
pull1D
Entries 24
Mean 0.6048
Std Dev 2.026

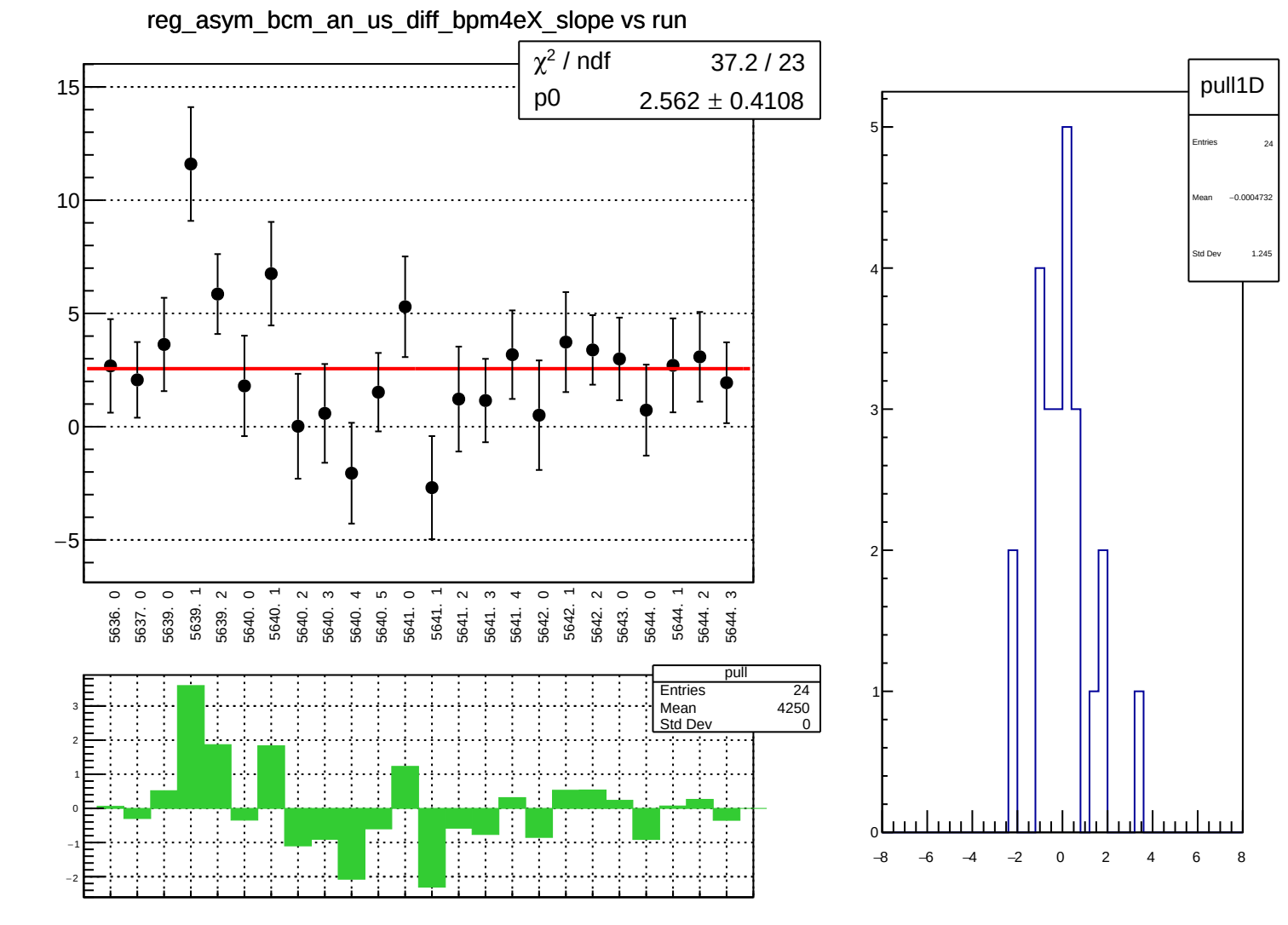

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 36.35 / 23
p0 2.534 ± 0.4066
15
10
5
0
−5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −1237
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 24
Mean 0.001685
Std Dev 1.231
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

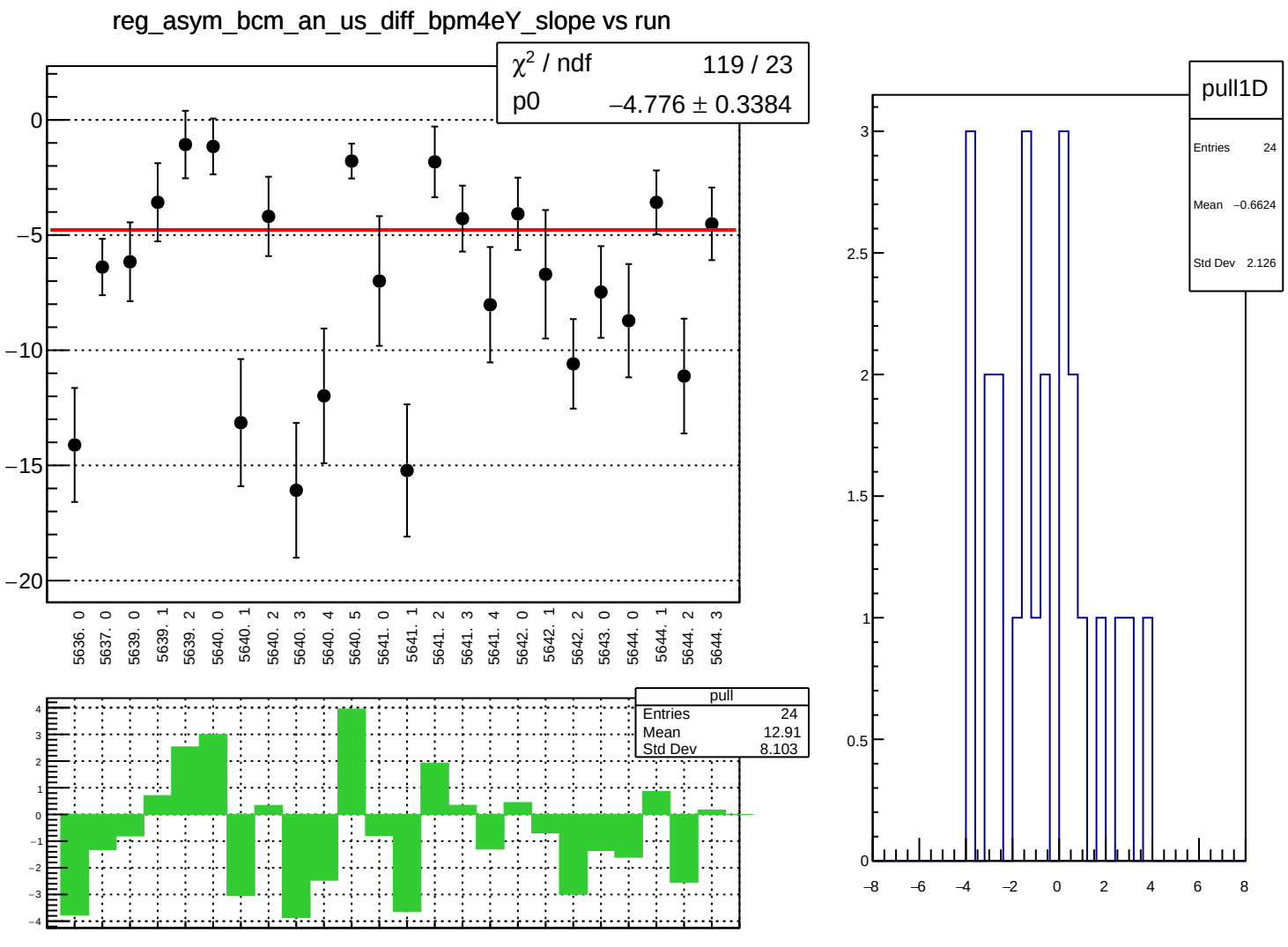

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 121.3 / 23
p0 −4.761 ± 0.3347
0
−5
−10
−15
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 12.72
Std Dev 8.028
pull1D
Entries 24
Mean −0.6645
Std Dev 2.148

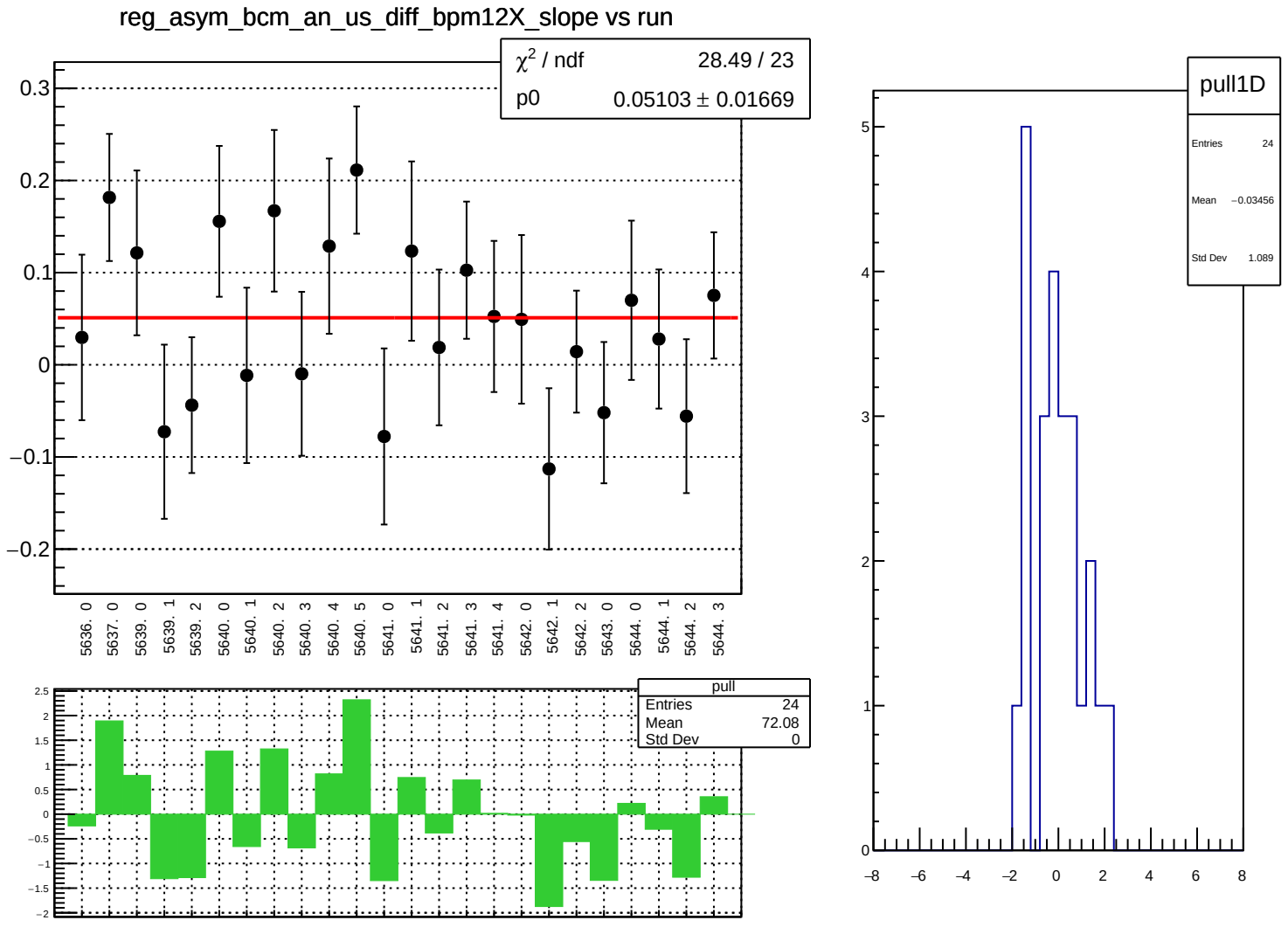

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 28.98 / 23
p0 0.05086 ± 0.01652
0.3
0.2
0.1
0
−0.1
−0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 68.27
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.03546
Std Dev 1.098
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

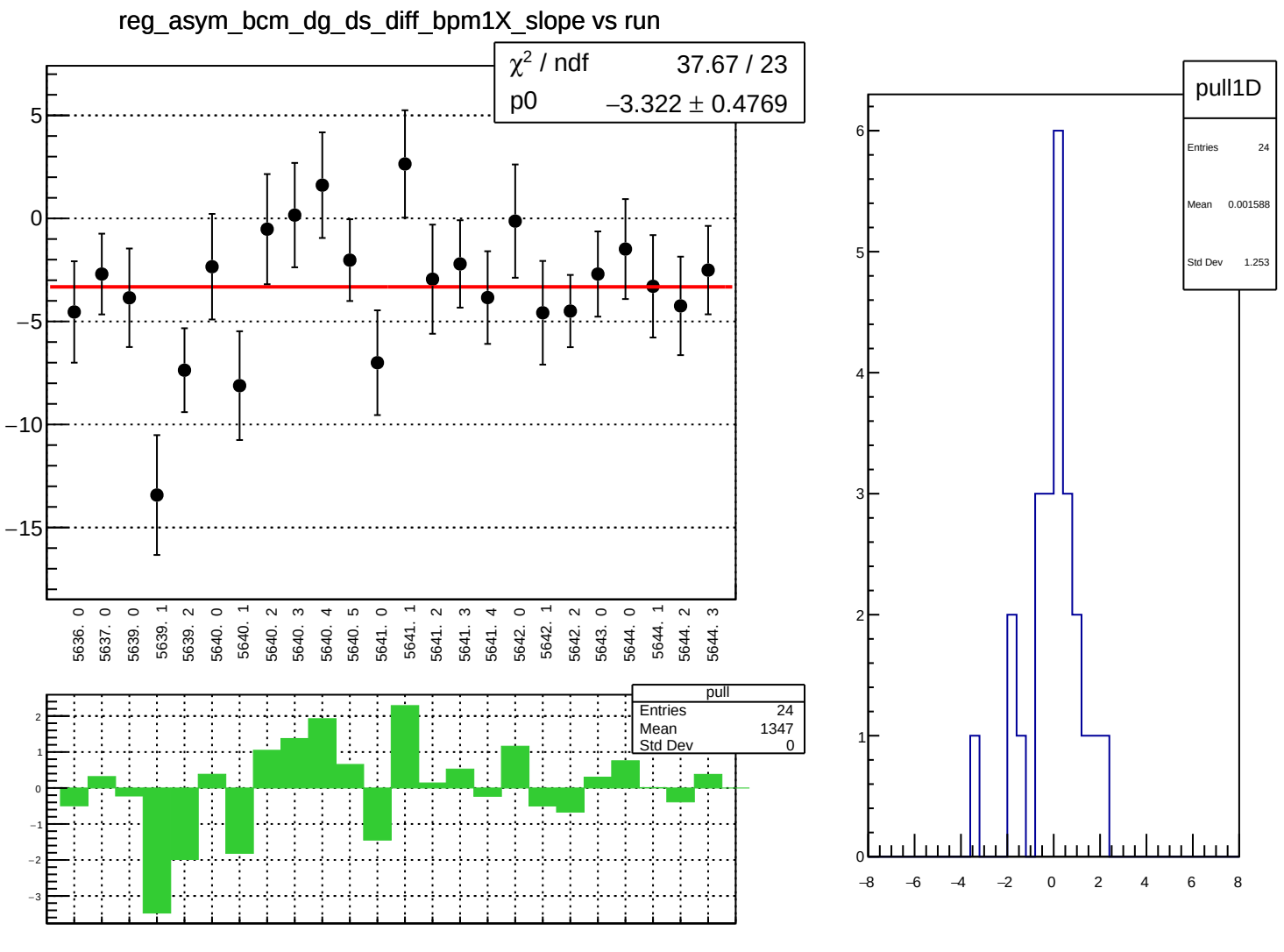

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 36.05 / 23
p0 −3.135 ± 0.4735
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −1969
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean −0.0009793
Std Dev 1.226
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

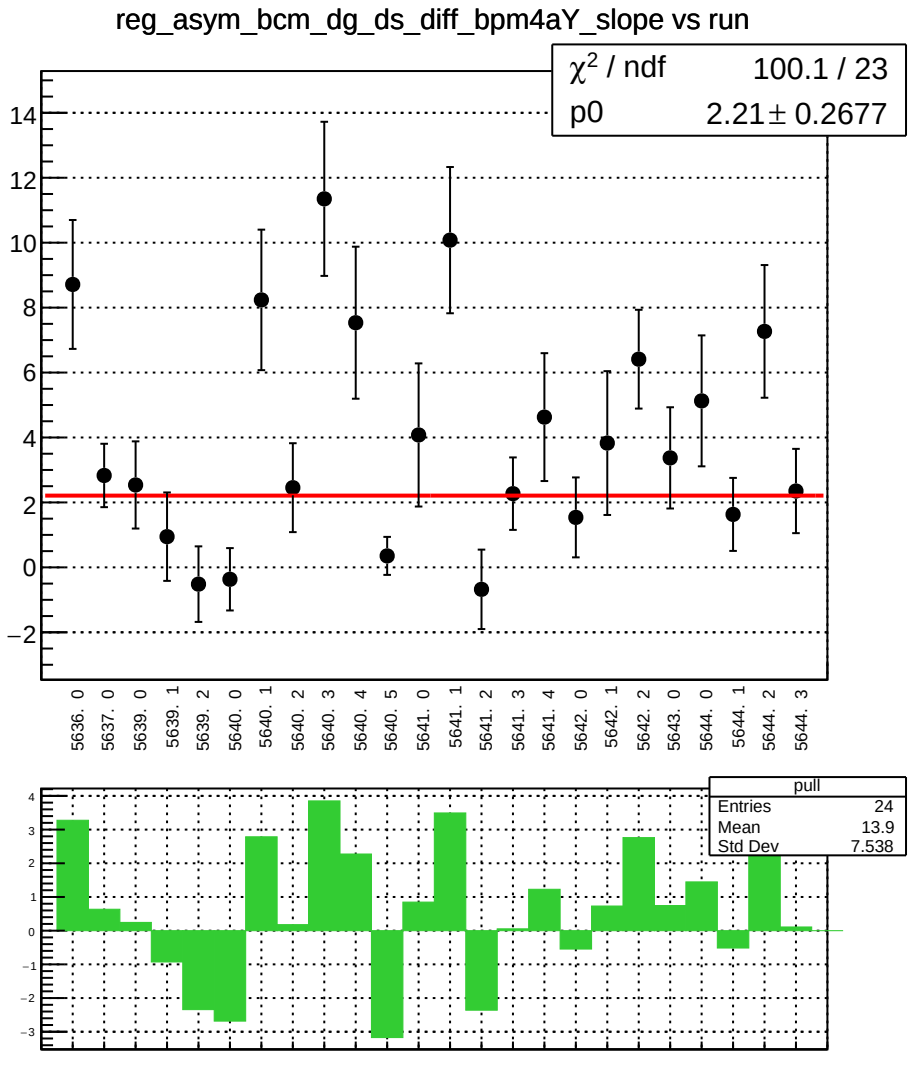

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 105.1 / 23
p0 2.186 ± 0.266
14
12
10
8
6
4
2
0
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 13.84
Std Dev 7.572
4
3
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean 0.6067
Std Dev 2.003
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

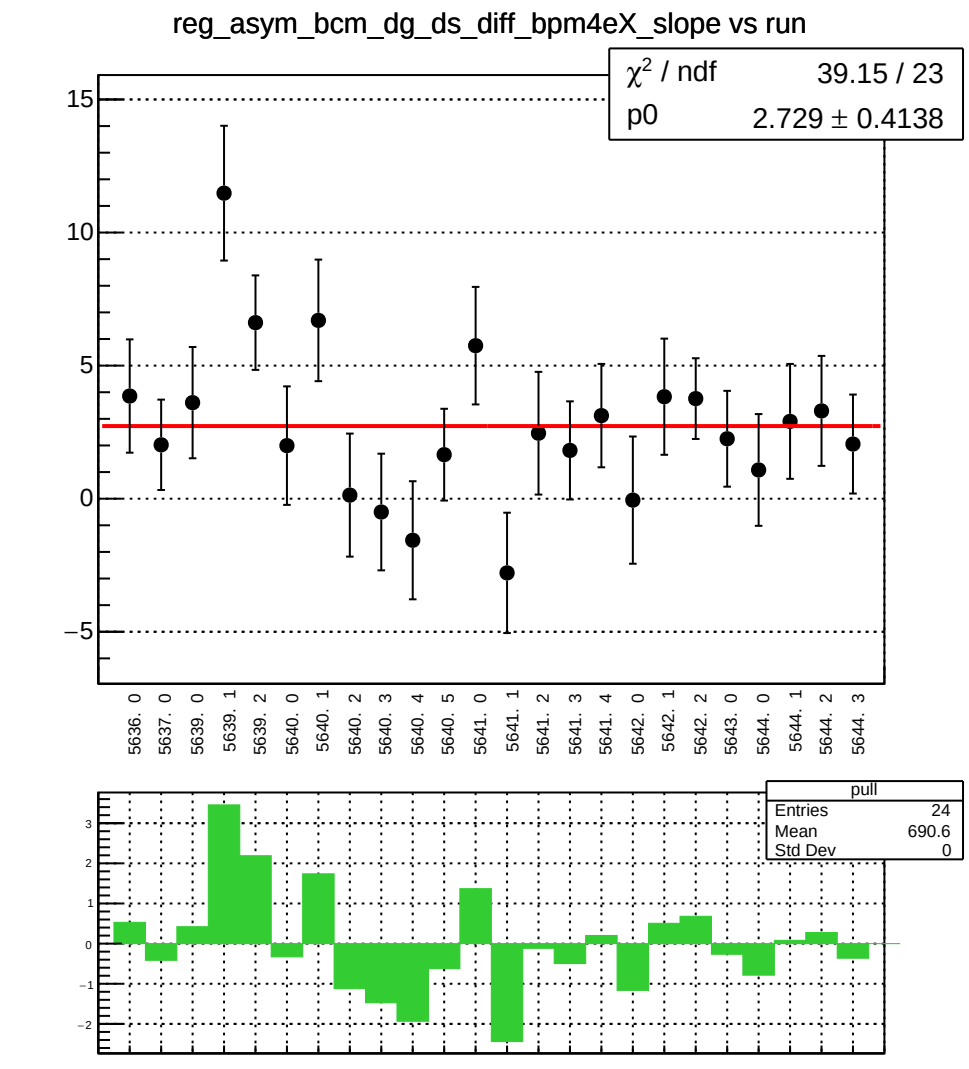

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 37.2 / 23
p0 2.562 ± 0.4108
15
10
5
0
−5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 4250
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 24
Mean −0.0004732
Std Dev 1.245
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

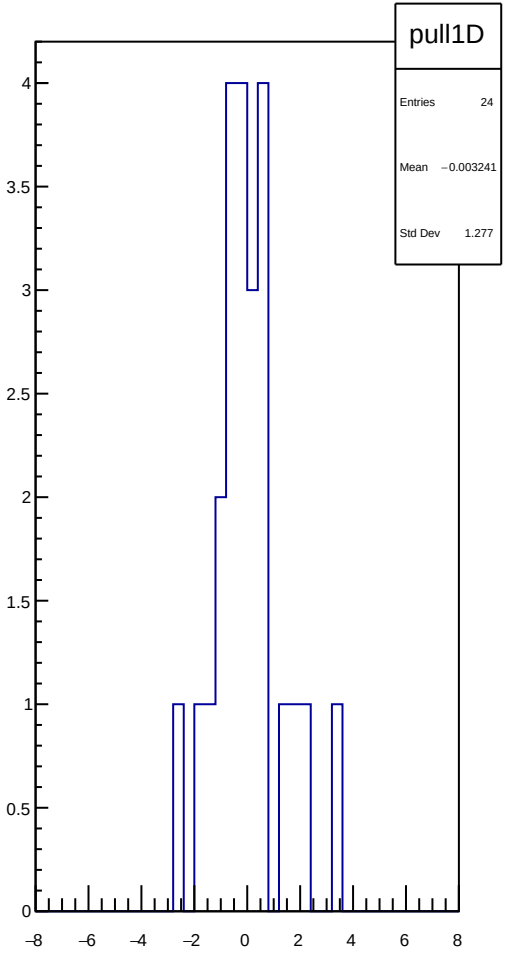

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 119 / 23
p0 −4.776 ± 0.3384
0
−5
−10
−15
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 12.91
Std Dev 8.103
pull1D
Entries 24
Mean −0.6624
Std Dev 2.126

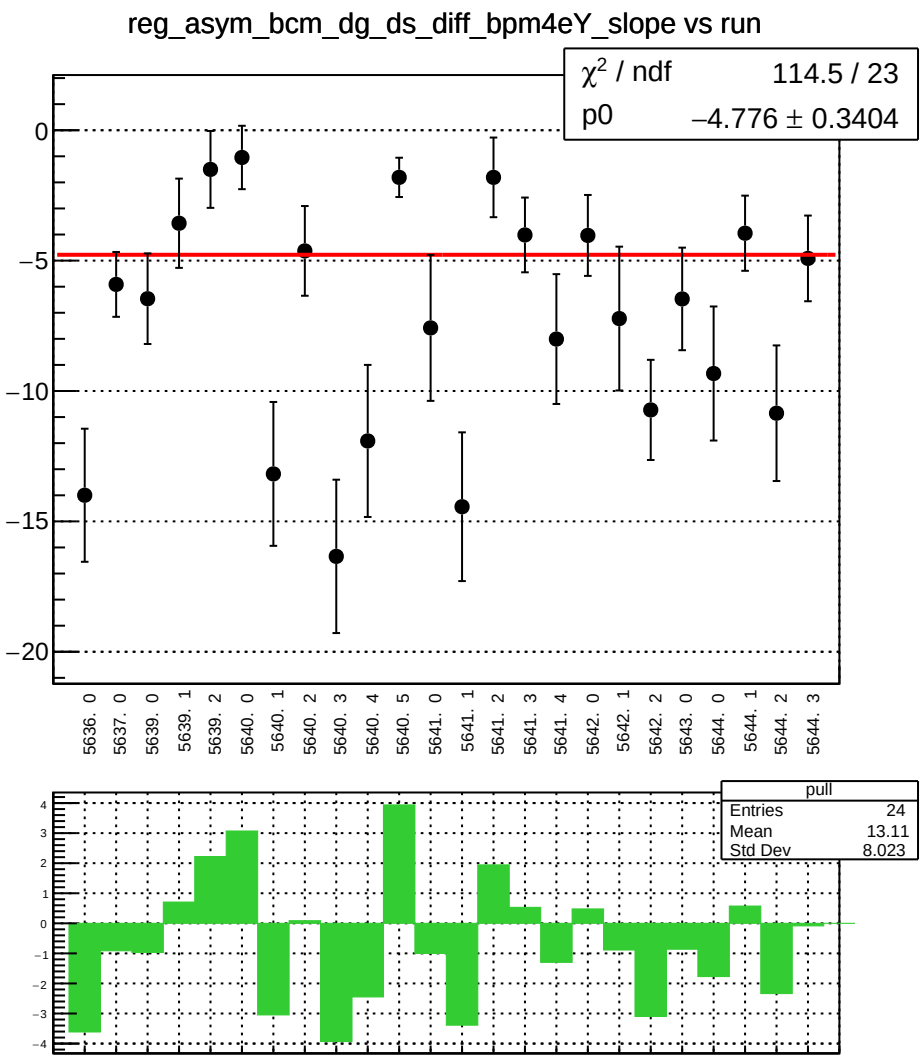

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 28.49 / 23
p0 0.05103 ± 0.01669
0.3
0.2
0.1
0
−0.1
−0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 72.08
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.03456
Std Dev 1.089
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

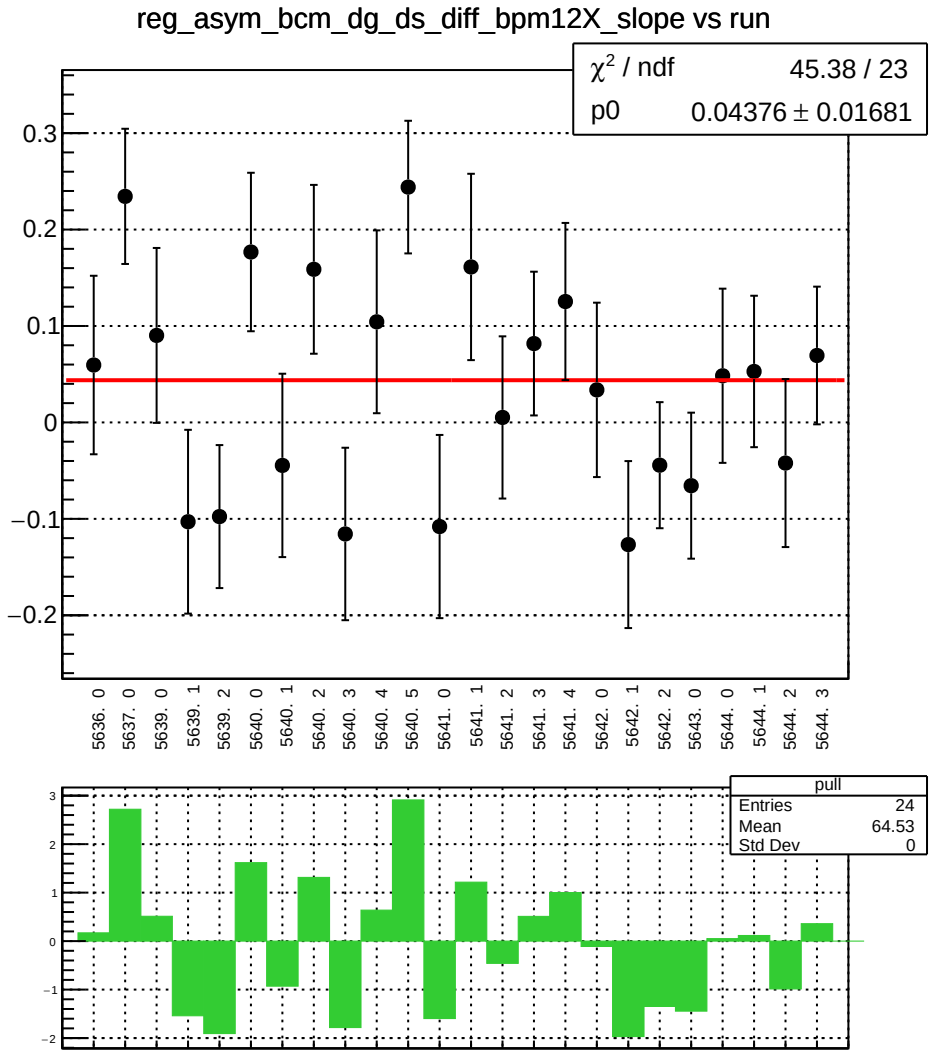

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 37.67 / 23
p0 −3.322 ± 0.4769
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 1347
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean 0.001588
Std Dev 1.253
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

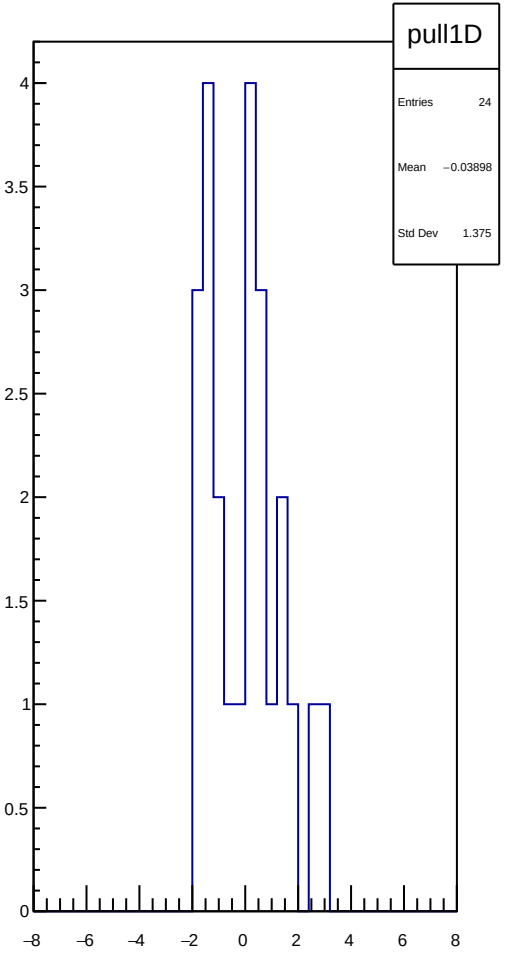

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 100.1 / 23
p0 2.21 ± 0.2677
14
12
10
8
6
4
2
0
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 13.9
Std Dev 7.538
4
3
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean 0.608
Std Dev 1.95
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

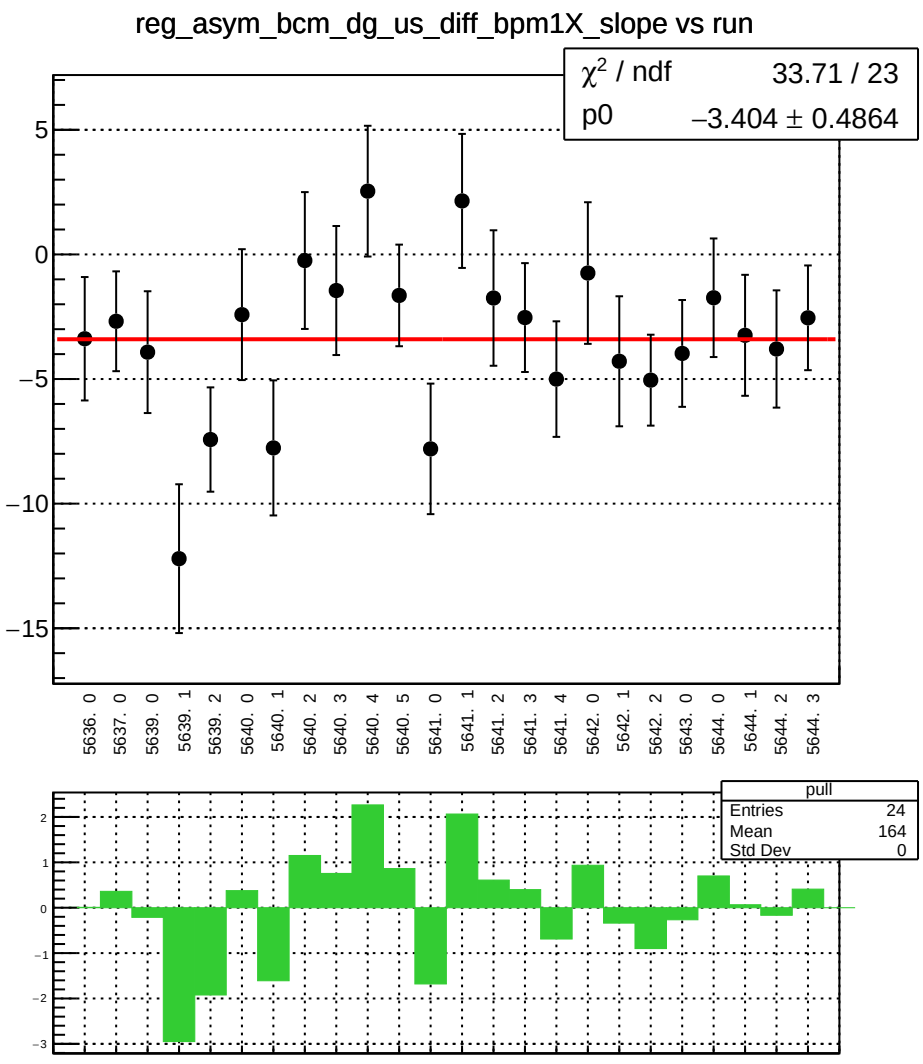

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 39.15 / 23
p0 2.729 ± 0.4138
15
10
5
0
−5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 690.6
Std Dev 0
3
2
1
0
−1
−2

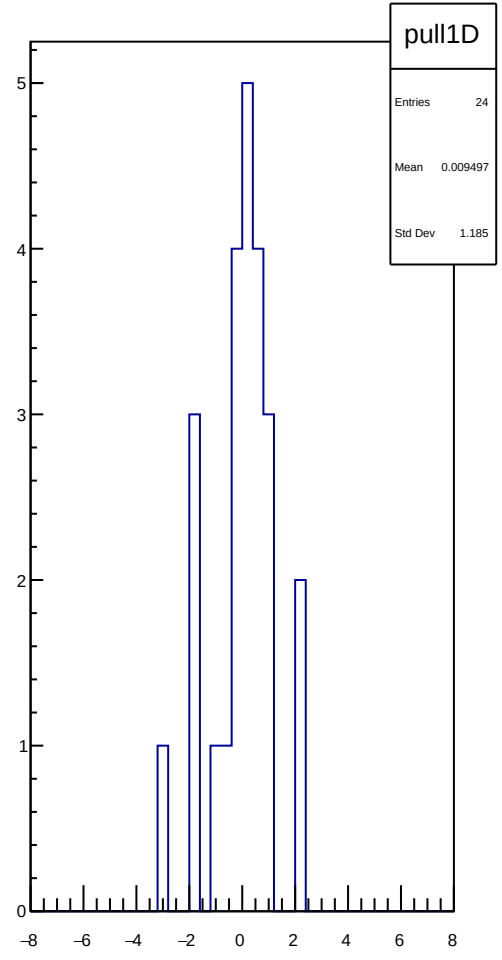

pull1D
Entries 24
Mean −0.003241
Std Dev 1.277
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

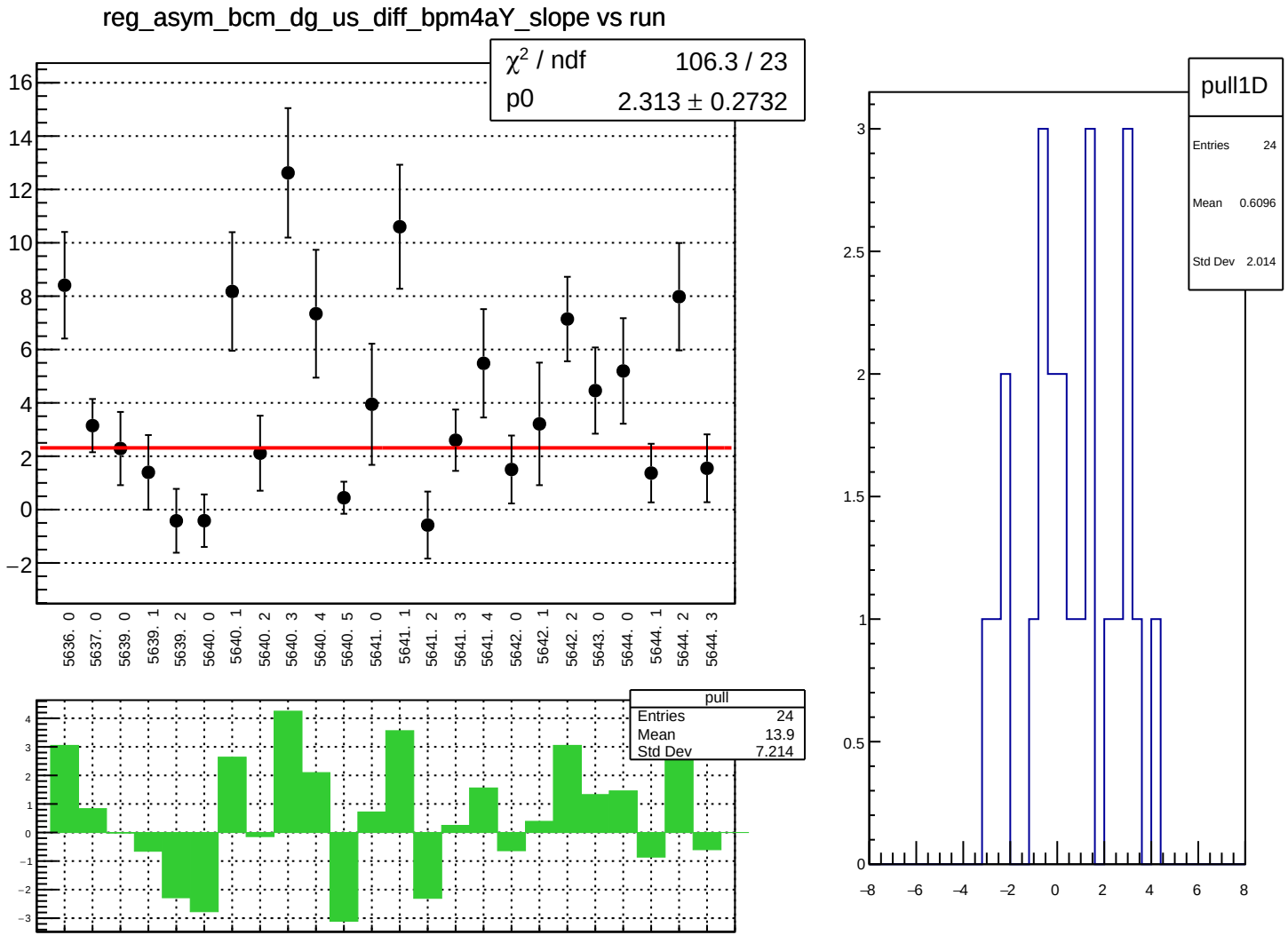

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 114.5 / 23
p0 −4.776 ± 0.3404
0
−5
−10
−15
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 13.11
Std Dev 8.023
pull1D
Entries 24
Mean −0.6709
Std Dev 2.078

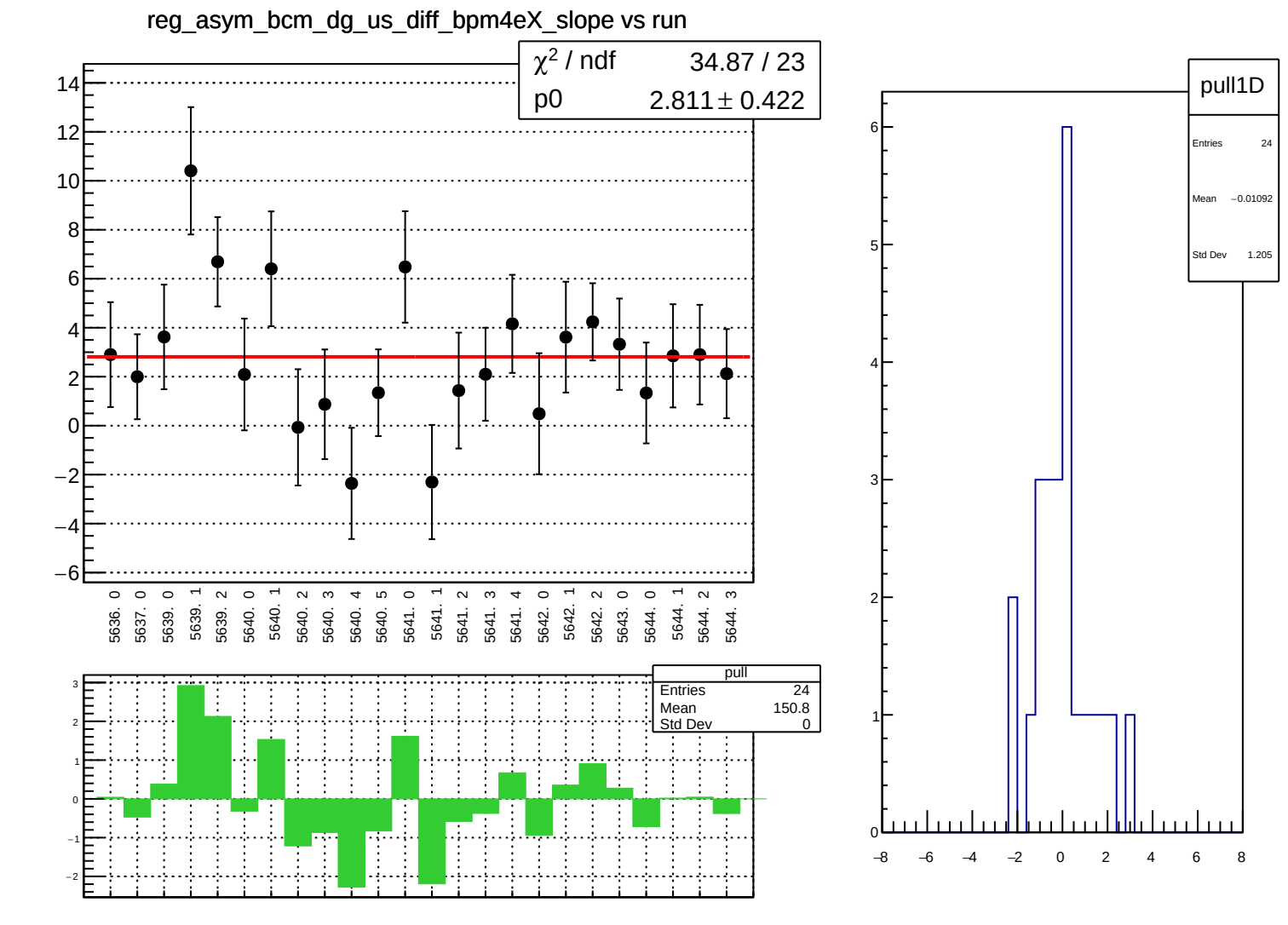

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 45.38 / 23
p0 0.04376 ± 0.01681
0.3
0.2
0.1
0
−0.1
−0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 64.53
Std Dev 0
3
2
1
0
−1
−2

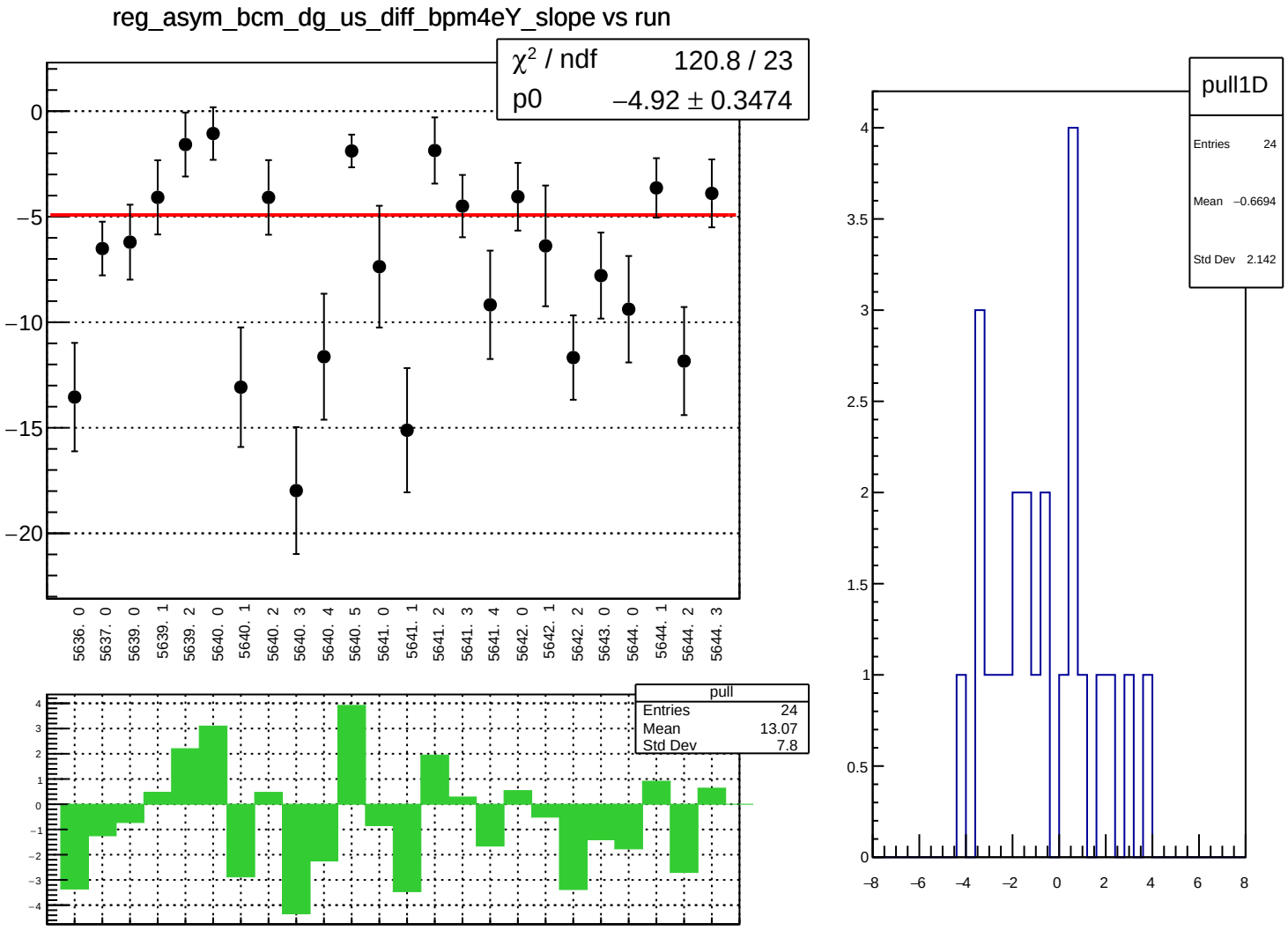

pull1D
Entries 24
Mean −0.03898
Std Dev 1.375
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

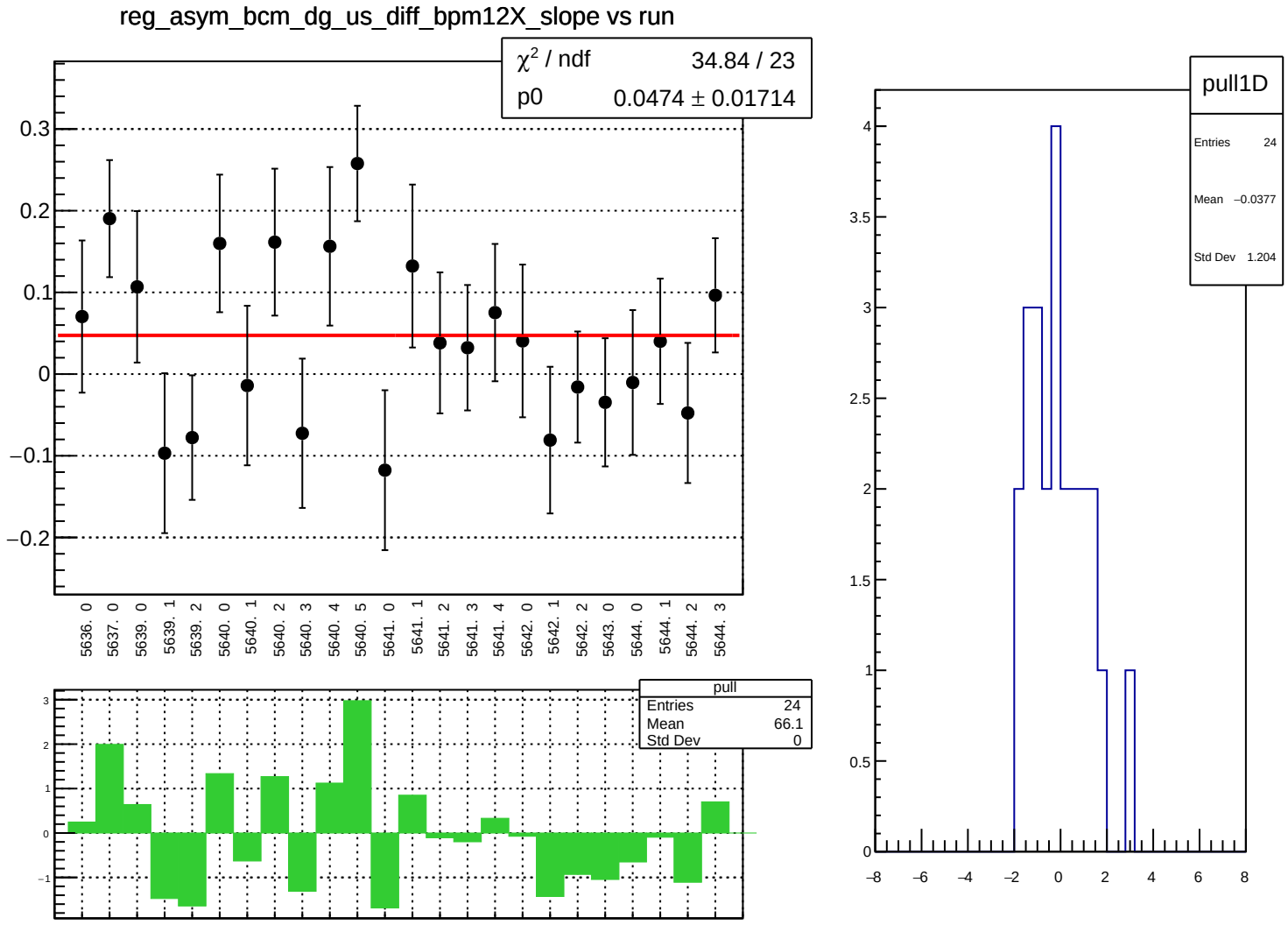

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 33.71 / 23
p0 −3.404 ± 0.4864
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 164
Std Dev 0
2
1
0
−1
−2
−3

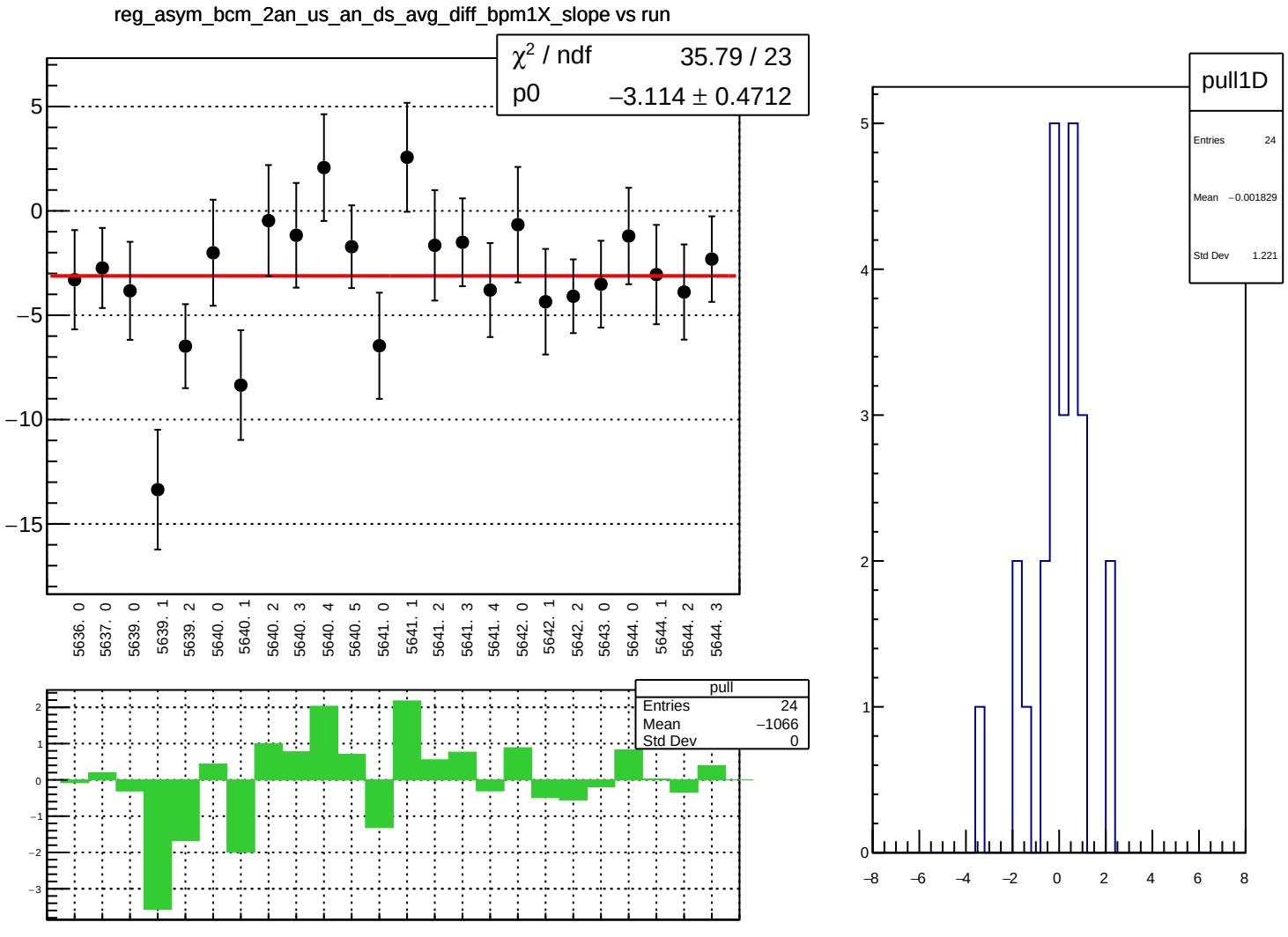

pull1D
Entries 24
Mean 0.009497
Std Dev 1.185
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

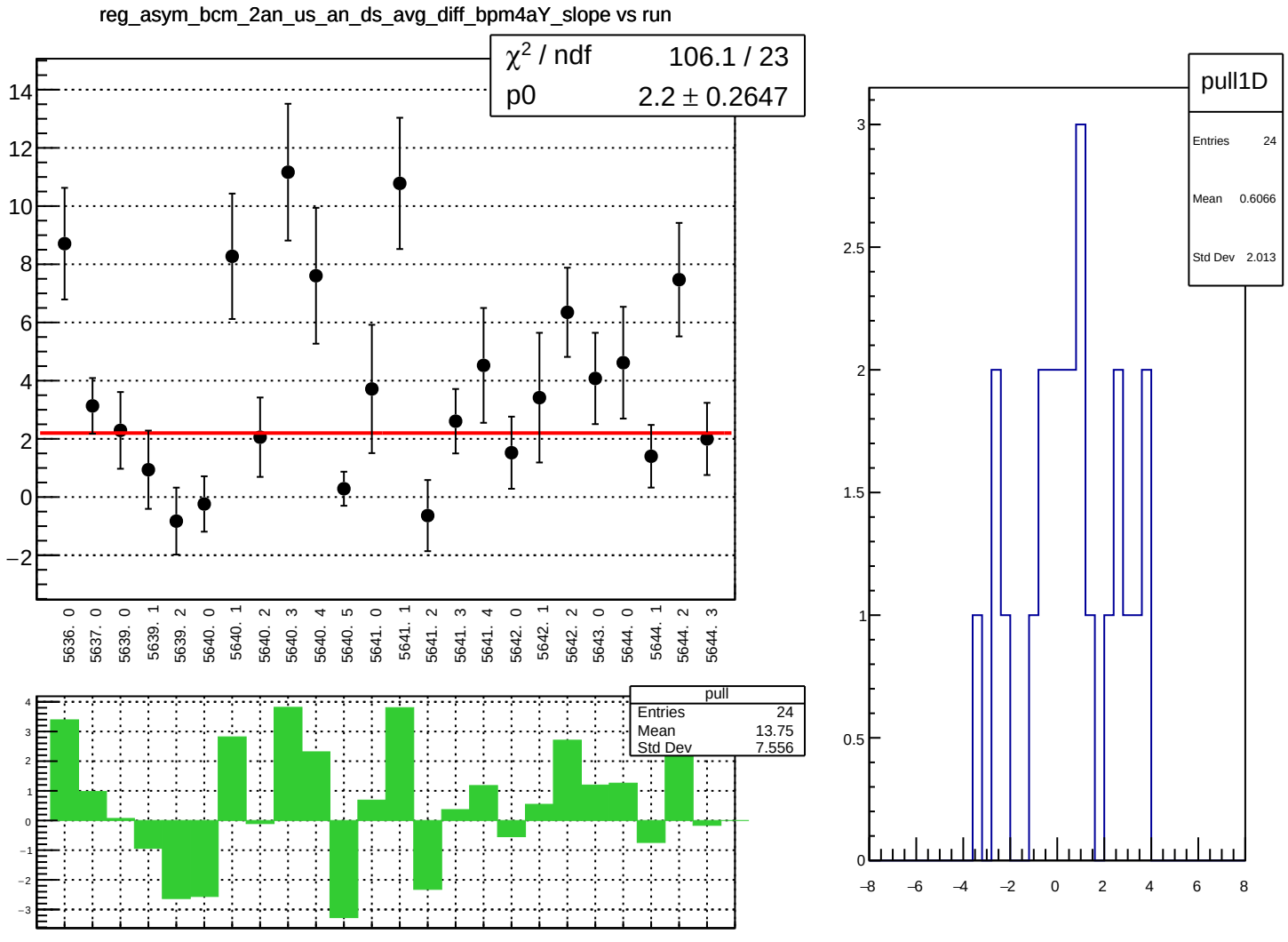

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 106.3 / 23
p0 2.313 ± 0.2732
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 13.9
Std Dev 7.214
pull1D
Entries 24
Mean 0.6096
Std Dev 2.014

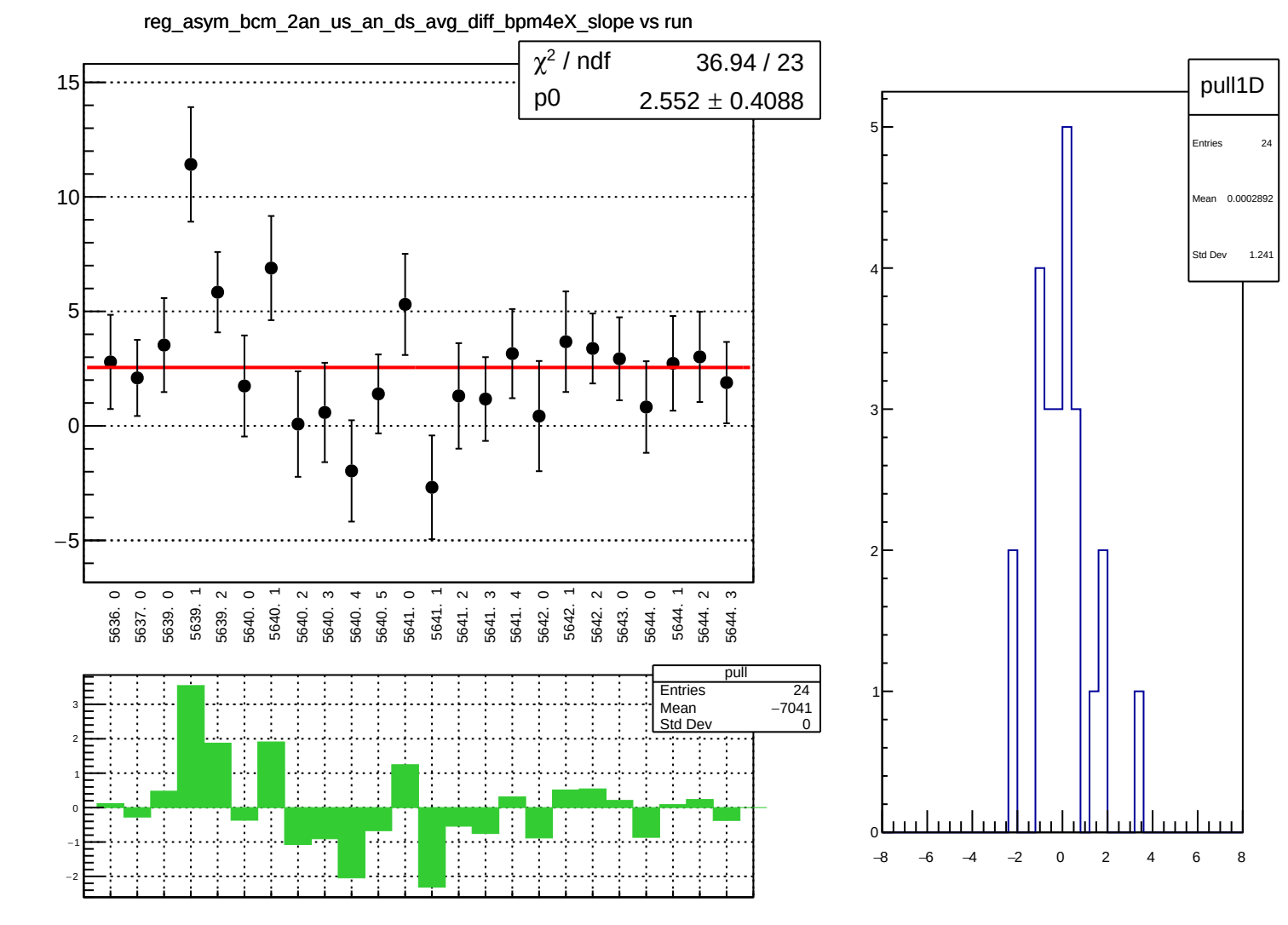

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 34.87 / 23
p0 2.811 ± 0.422
14
12
10
8
6
4
2
0
−2
−4
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 150.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 24
Mean −0.01092
Std Dev 1.205
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

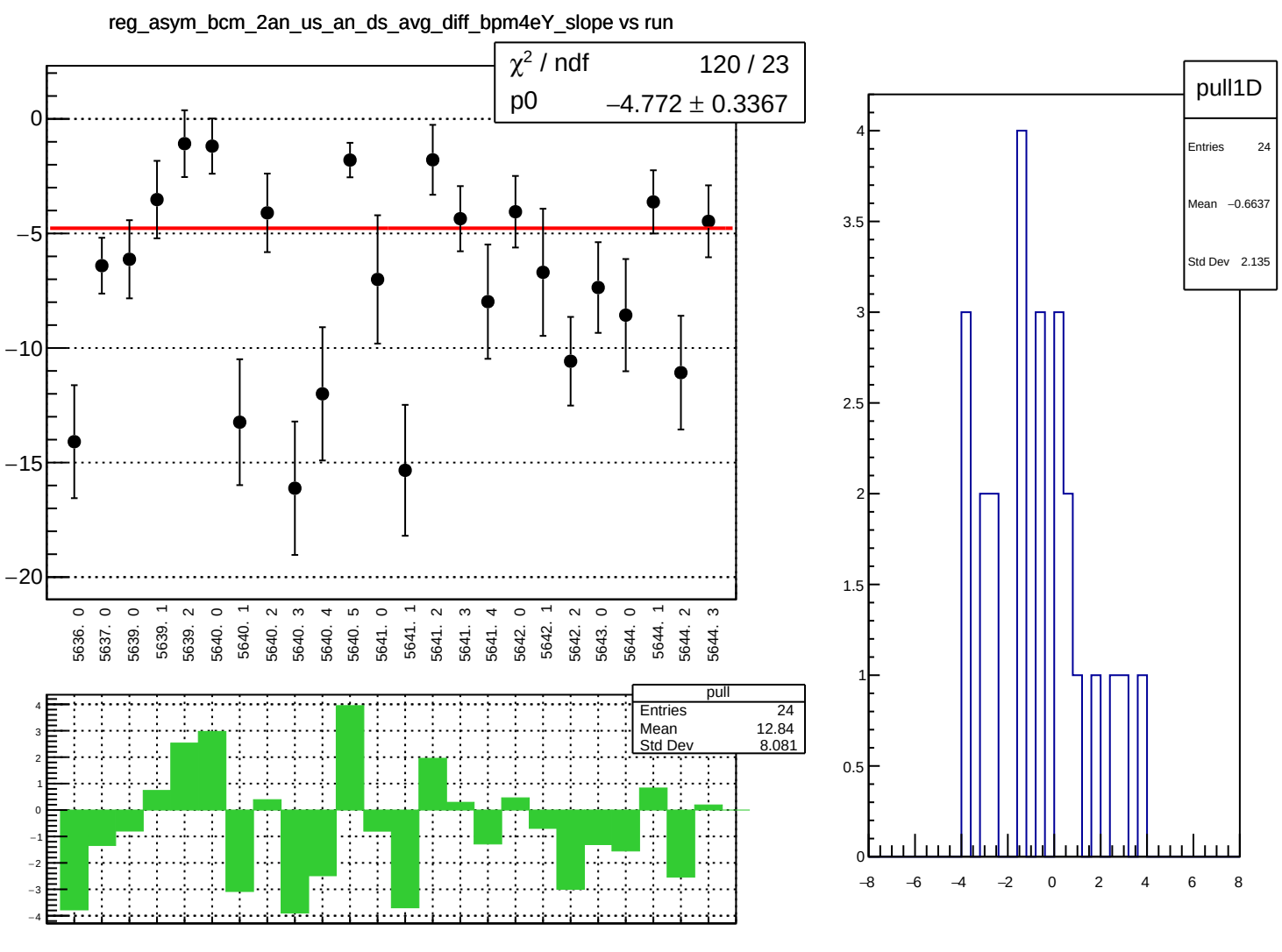

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 120.8 / 23
p0 −4.92 ± 0.3474
0
−5
−10
−15
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 13.07
Std Dev 7.8
pull1D
Entries 24
Mean −0.6694
Std Dev 2.142

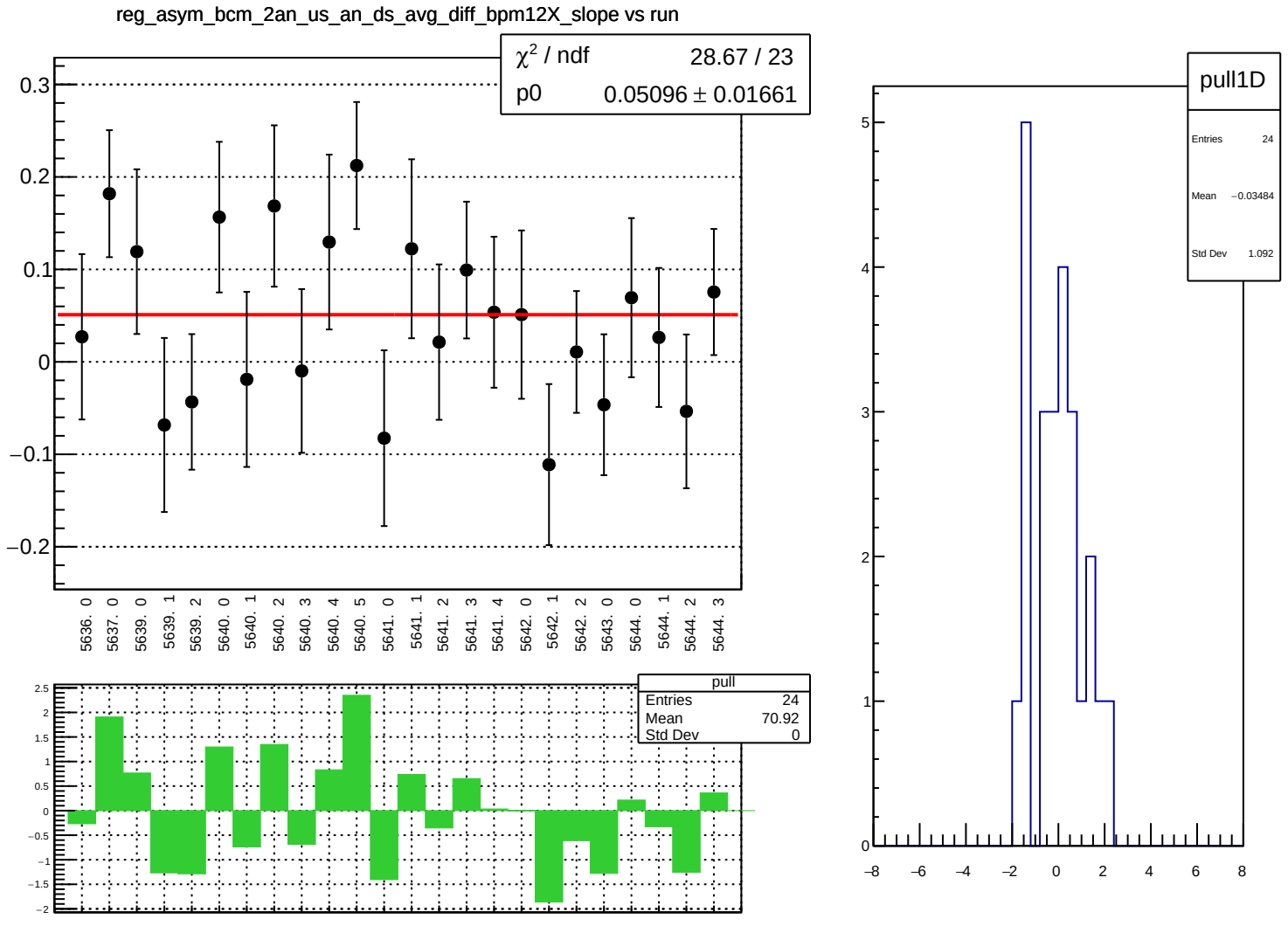

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 34.84 / 23
p0 0.0474 ± 0.01714
0.3
0.2
0.1
0
−0.1
−0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 66.1
Std Dev 0
3
2
1
0
−1
pull1D
Entries 24
Mean −0.0377
Std Dev 1.204
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

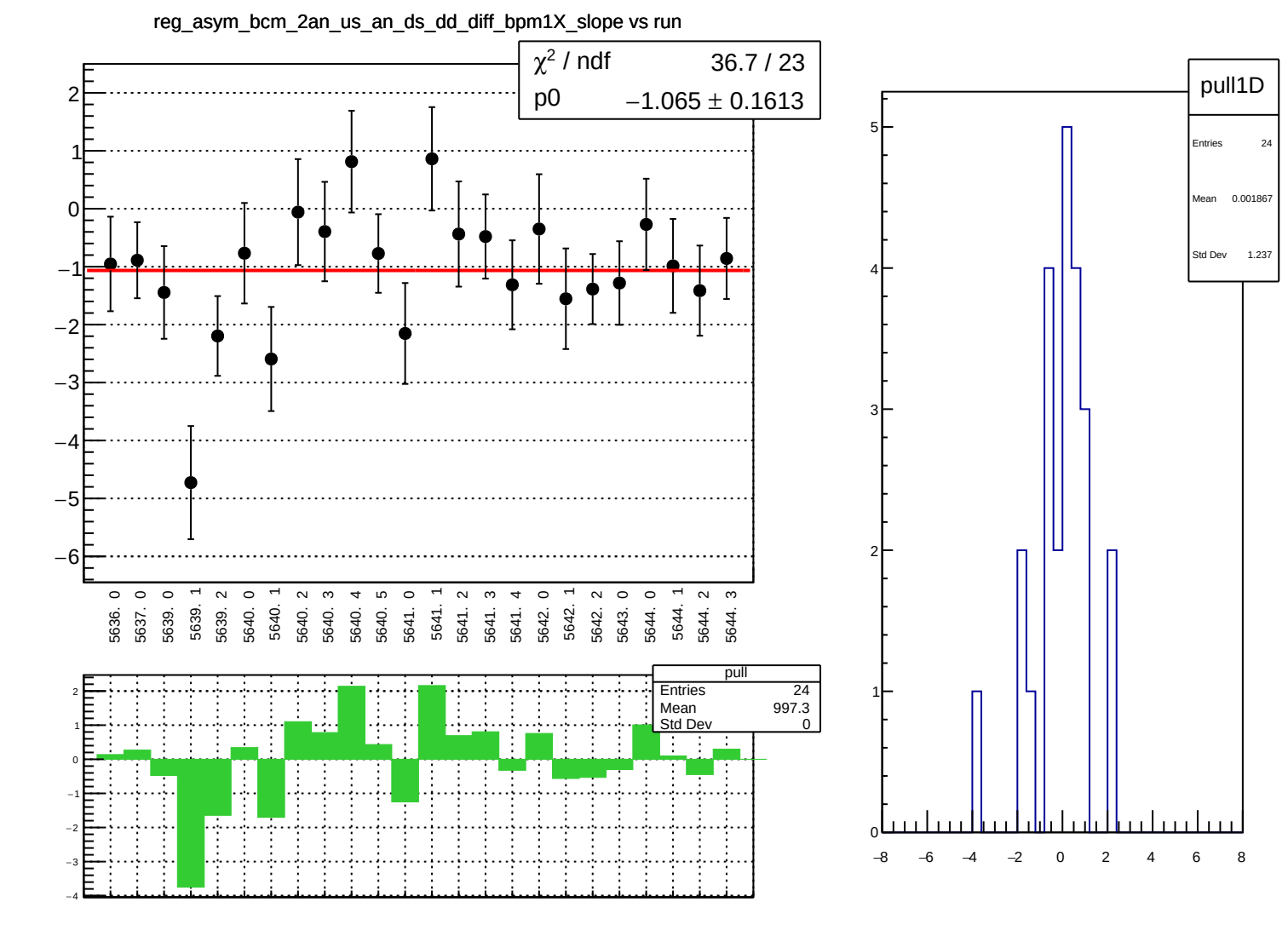

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 35.79 / 23
p0 −3.114 ± 0.4712
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −1066
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean −0.001829
Std Dev 1.221
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

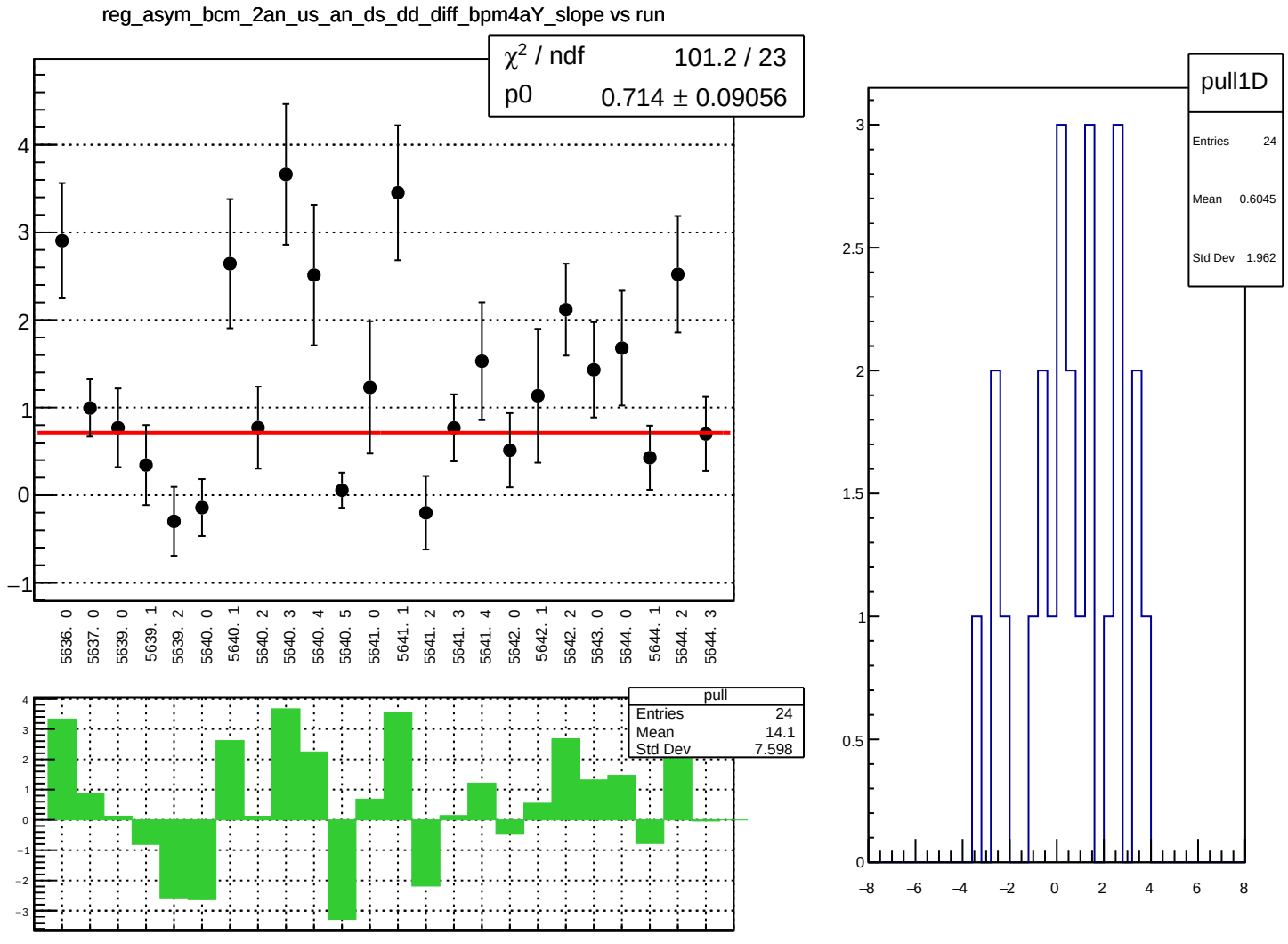

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 106.1 / 23
p0 2.2 ± 0.2647
14
12
10
8
6
4
2
0
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 13.75
Std Dev 7.556
4
3
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean 0.6066
Std Dev 2.013
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

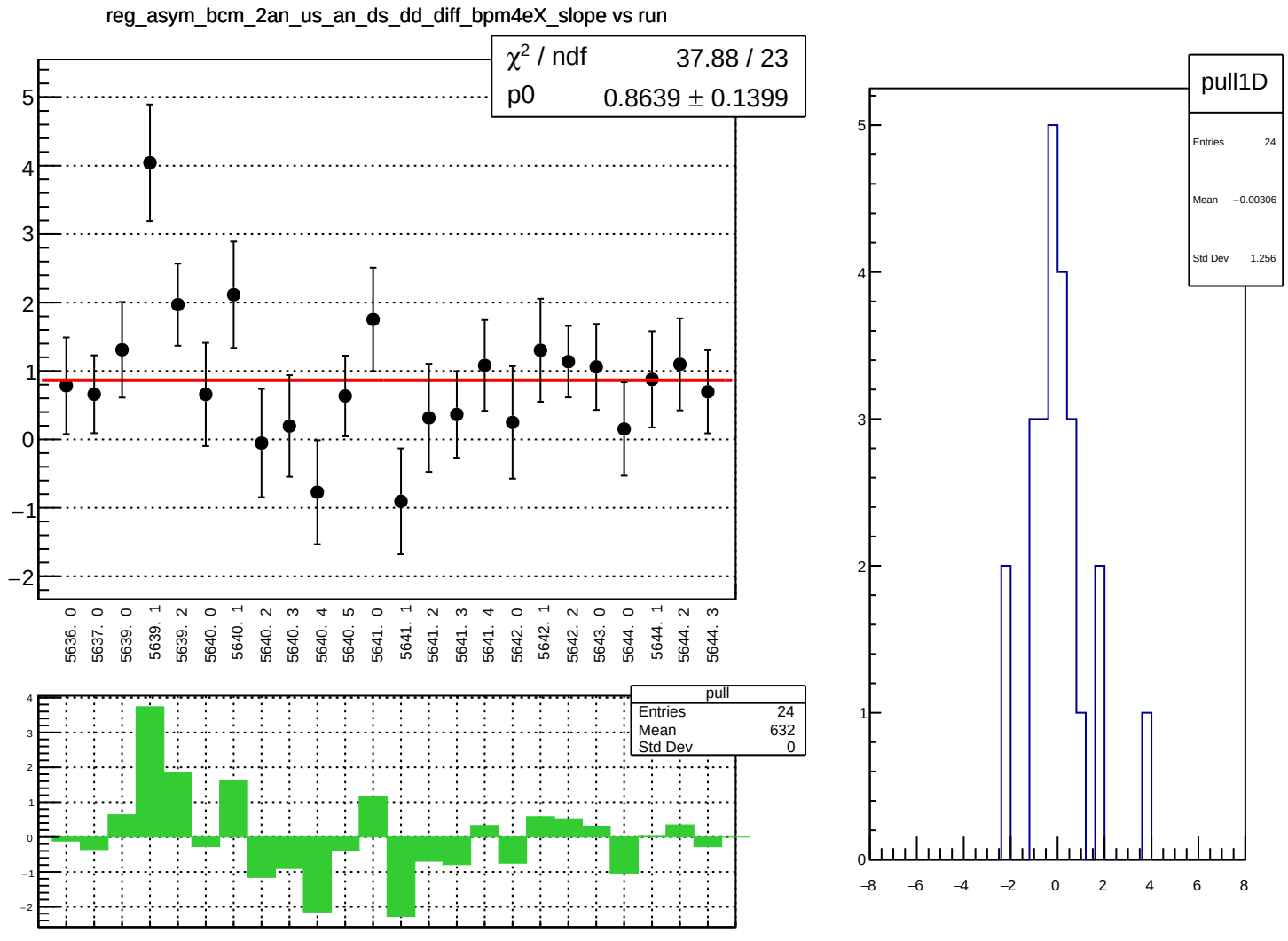

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 36.94 / 23
p0 2.552 ± 0.4088
15
10
5
0
−5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −7041
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 24
Mean 0.0002892
Std Dev 1.241
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

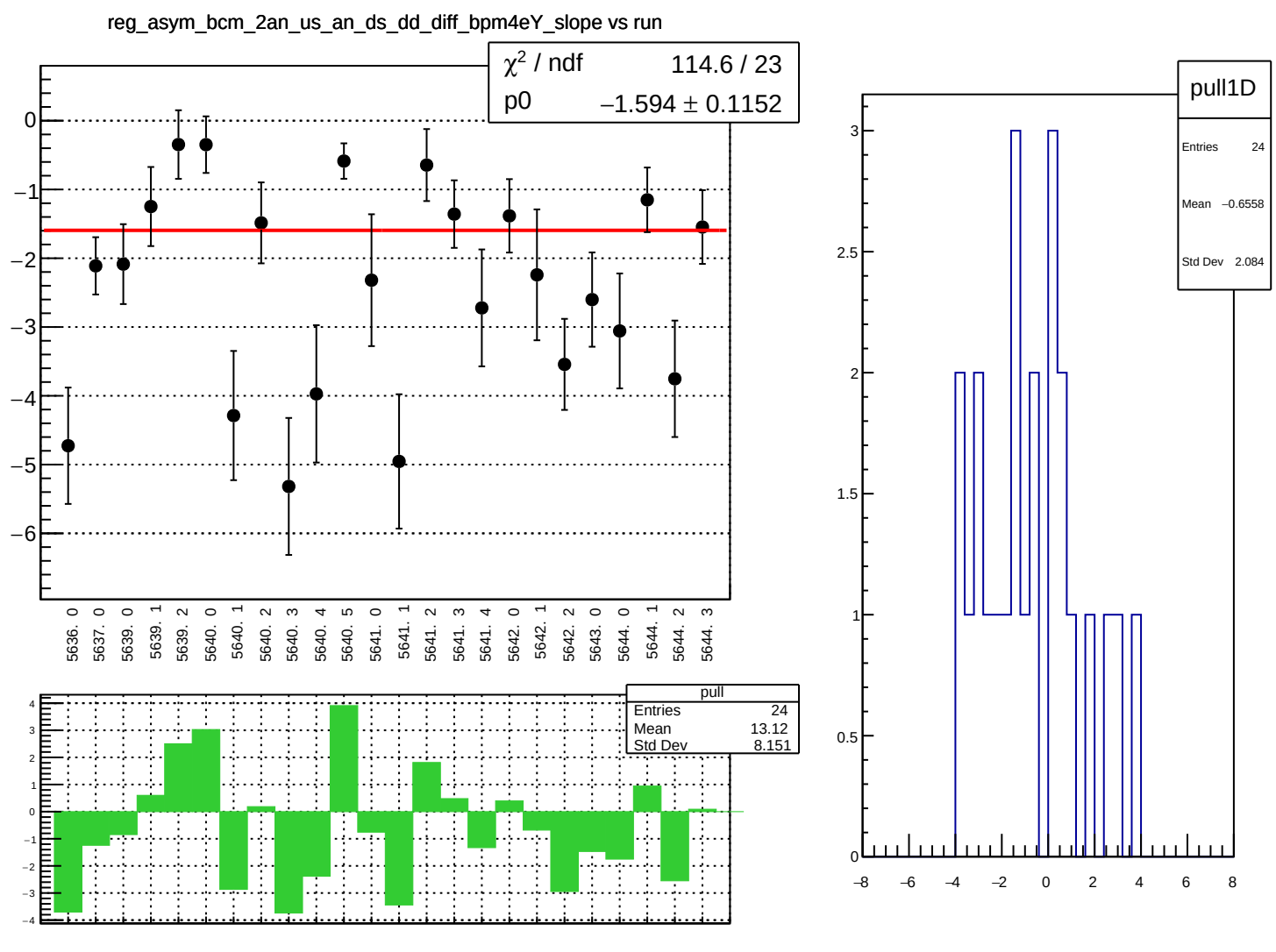

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 120 / 23
p0 −4.772 ± 0.3367
0
−5
−10
−15
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 12.84
Std Dev 8.081
pull1D
Entries 24
Mean −0.6637
Std Dev 2.135

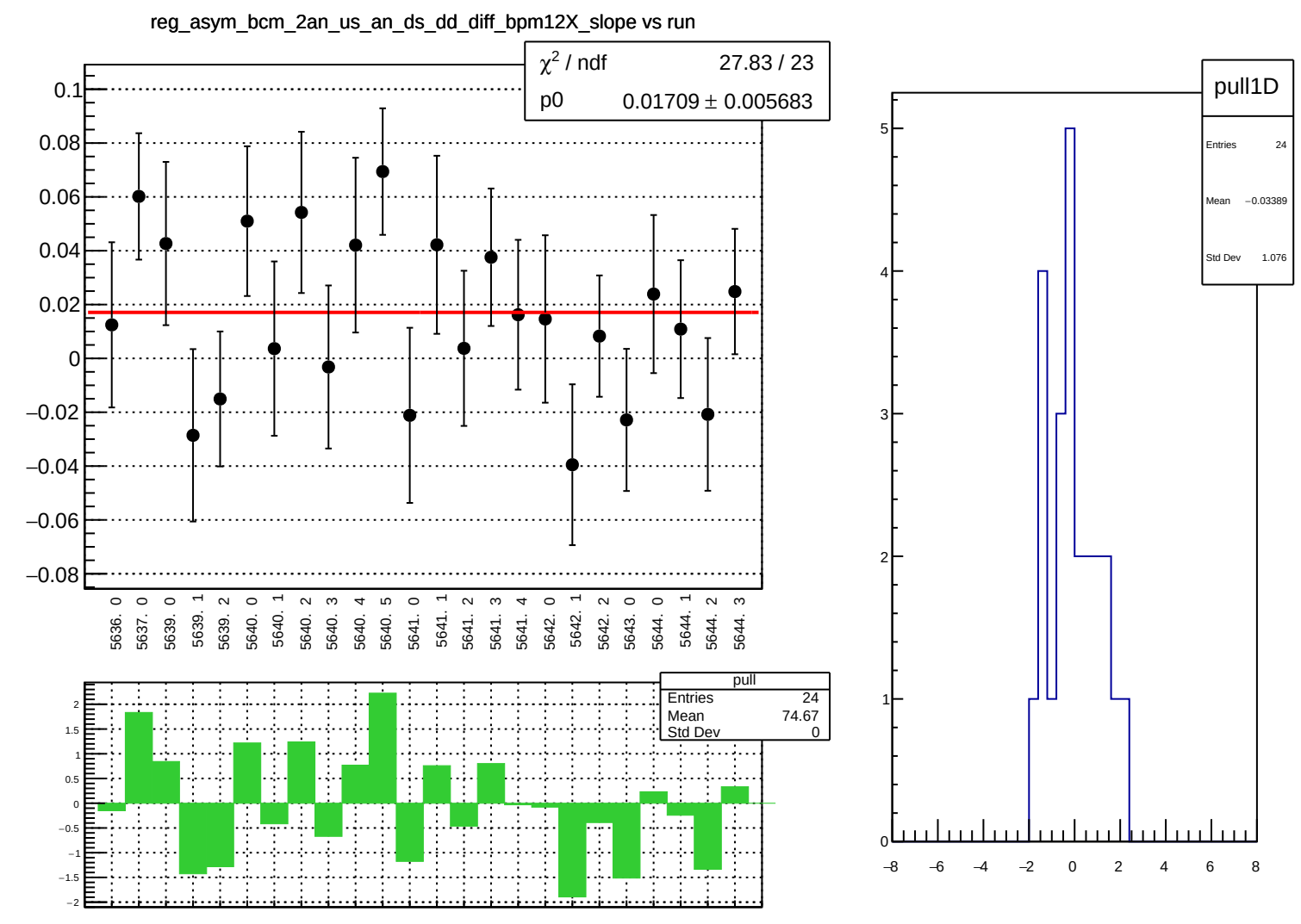

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 28.67 / 23
p0 0.05096 ± 0.01661
0.3
0.2
0.1
0
−0.1
−0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 70.92
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.03484
Std Dev 1.092
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

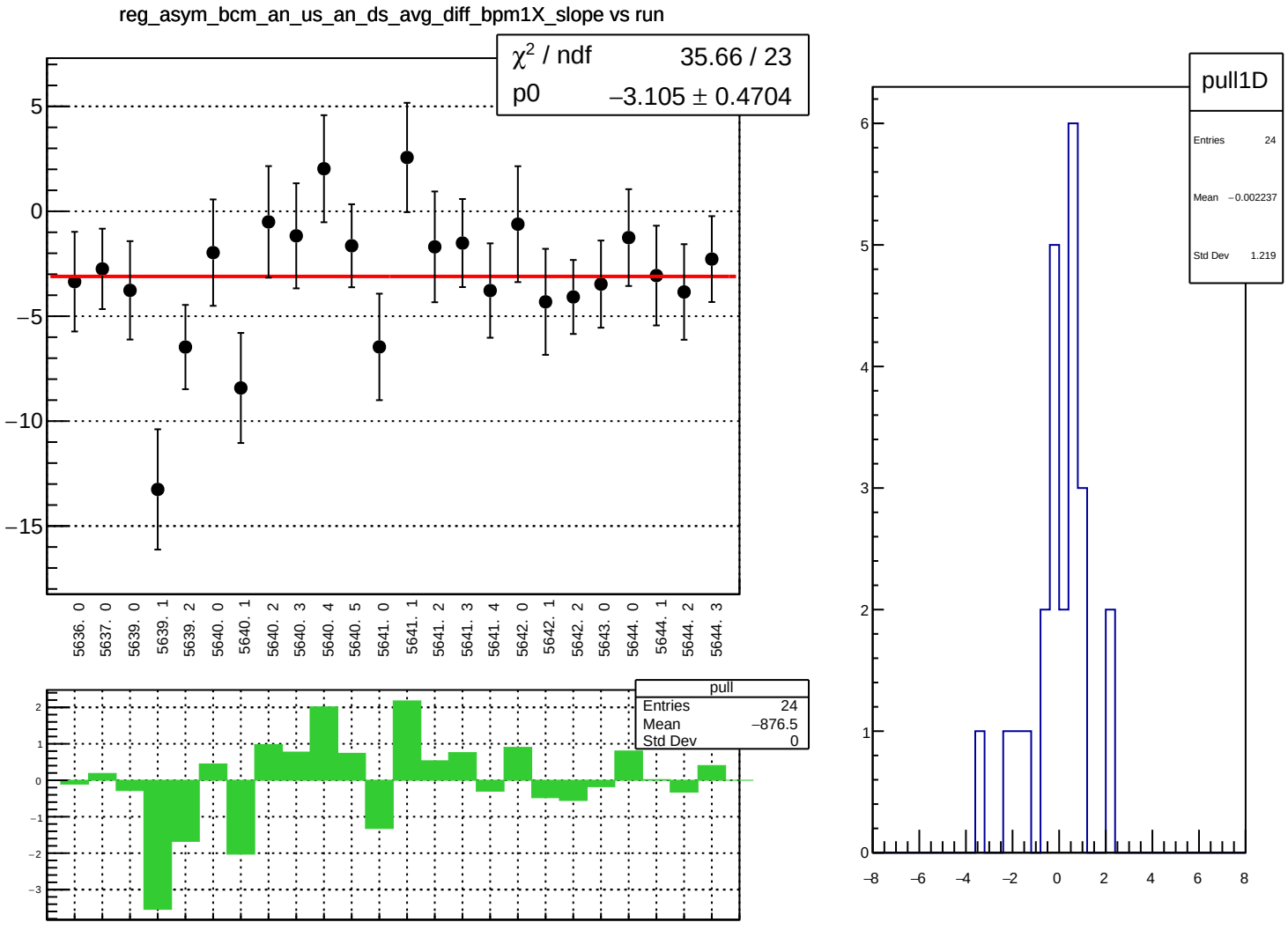

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 36.7 / 23
p0 −1.065 ± 0.1613
pull
Entries 24
Mean 997.3
Std Dev 0
pull1D
Entries 24
Mean 0.001867
Std Dev 1.237

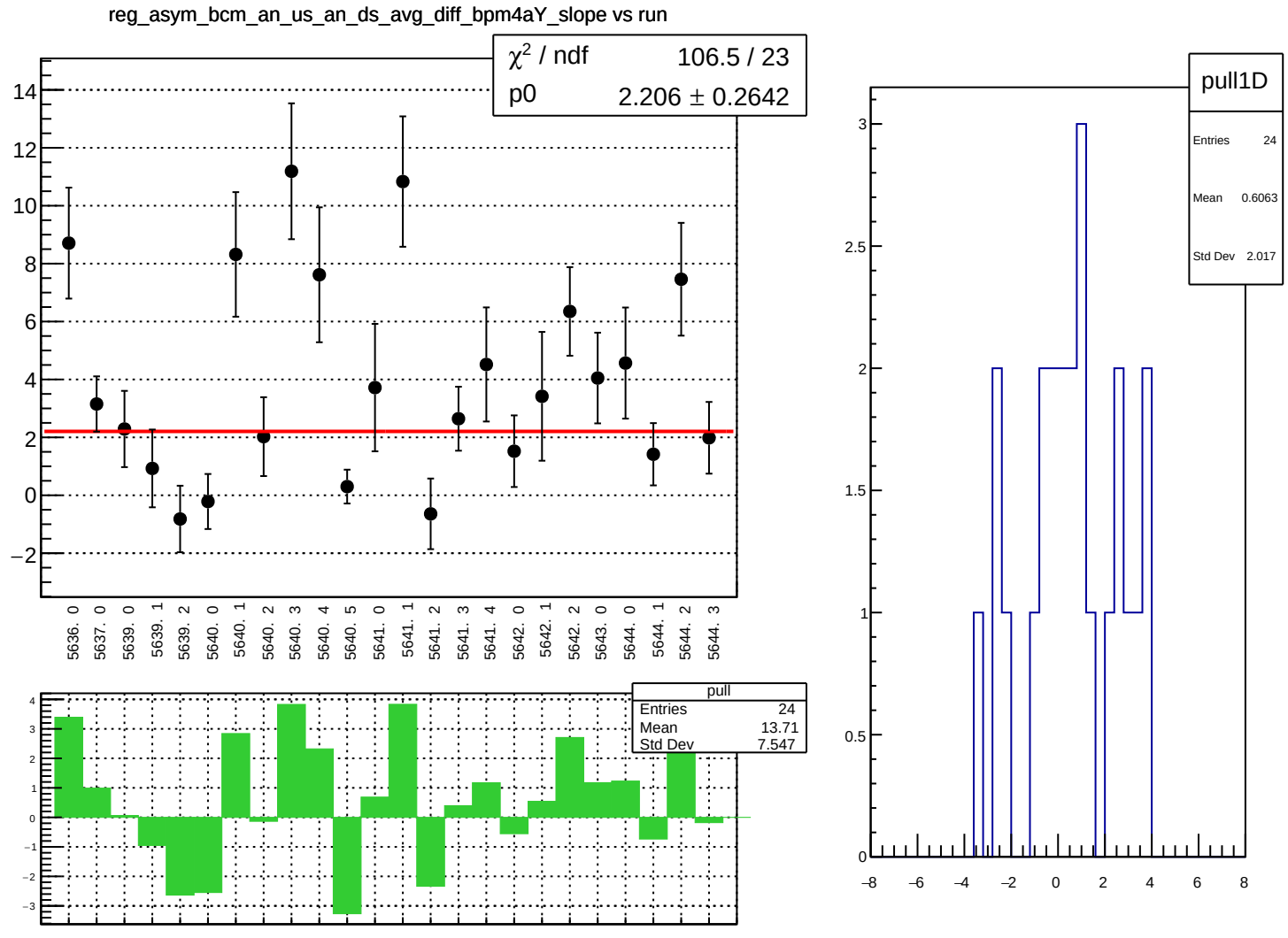

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 101.2 / 23
p0 0.714 ± 0.09056
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 14.1
Std Dev 7.598
pull1D
Entries 24
Mean 0.6045
Std Dev 1.962

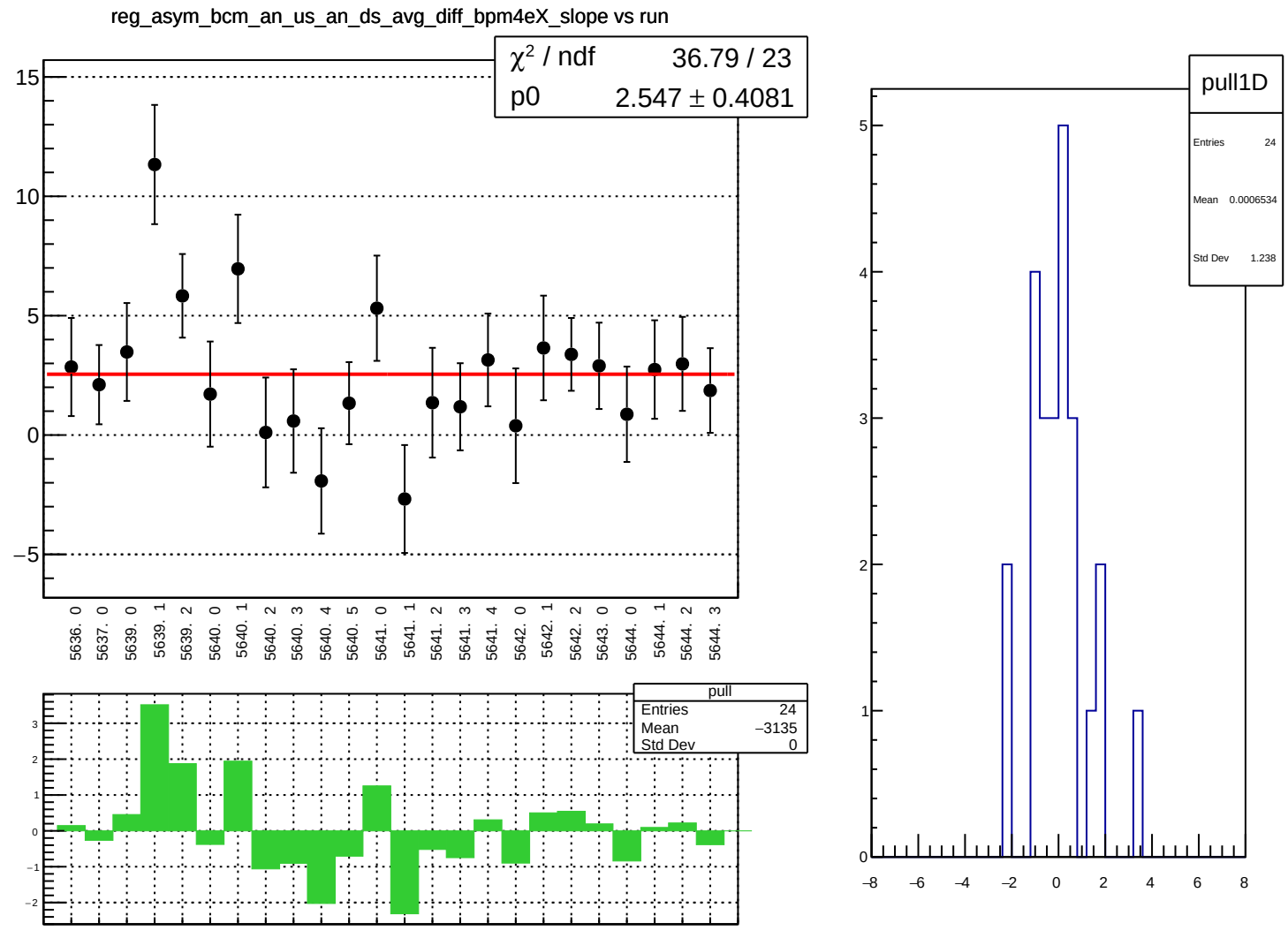

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 37.88 / 23
p0 0.8639 ± 0.1399
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 632
Std Dev 0
pull1D
Entries 24
Mean −0.00306
Std Dev 1.256

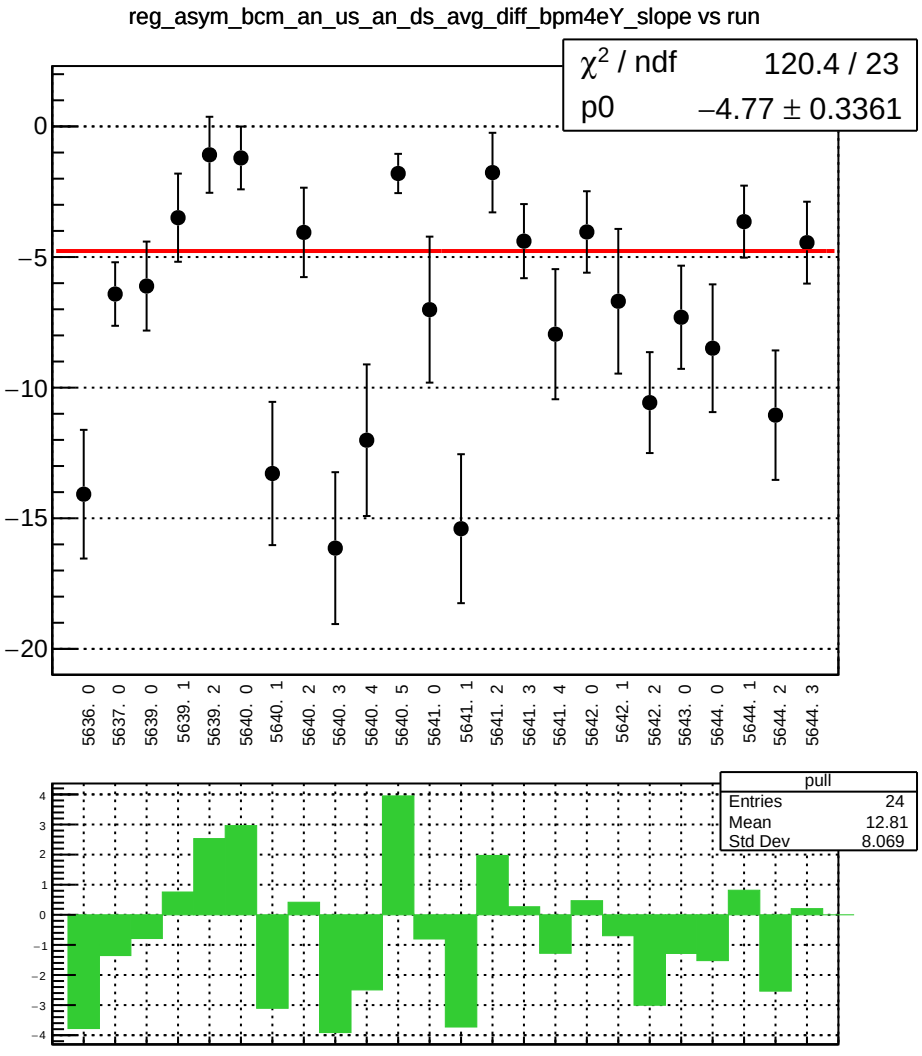

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 114.6 / 23
p0 −1.594 ± 0.1152
0
−1
−2
−3
−4
−5
−6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 13.12
Std Dev 8.151
pull1D
Entries 24
Mean −0.6558
Std Dev 2.084
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

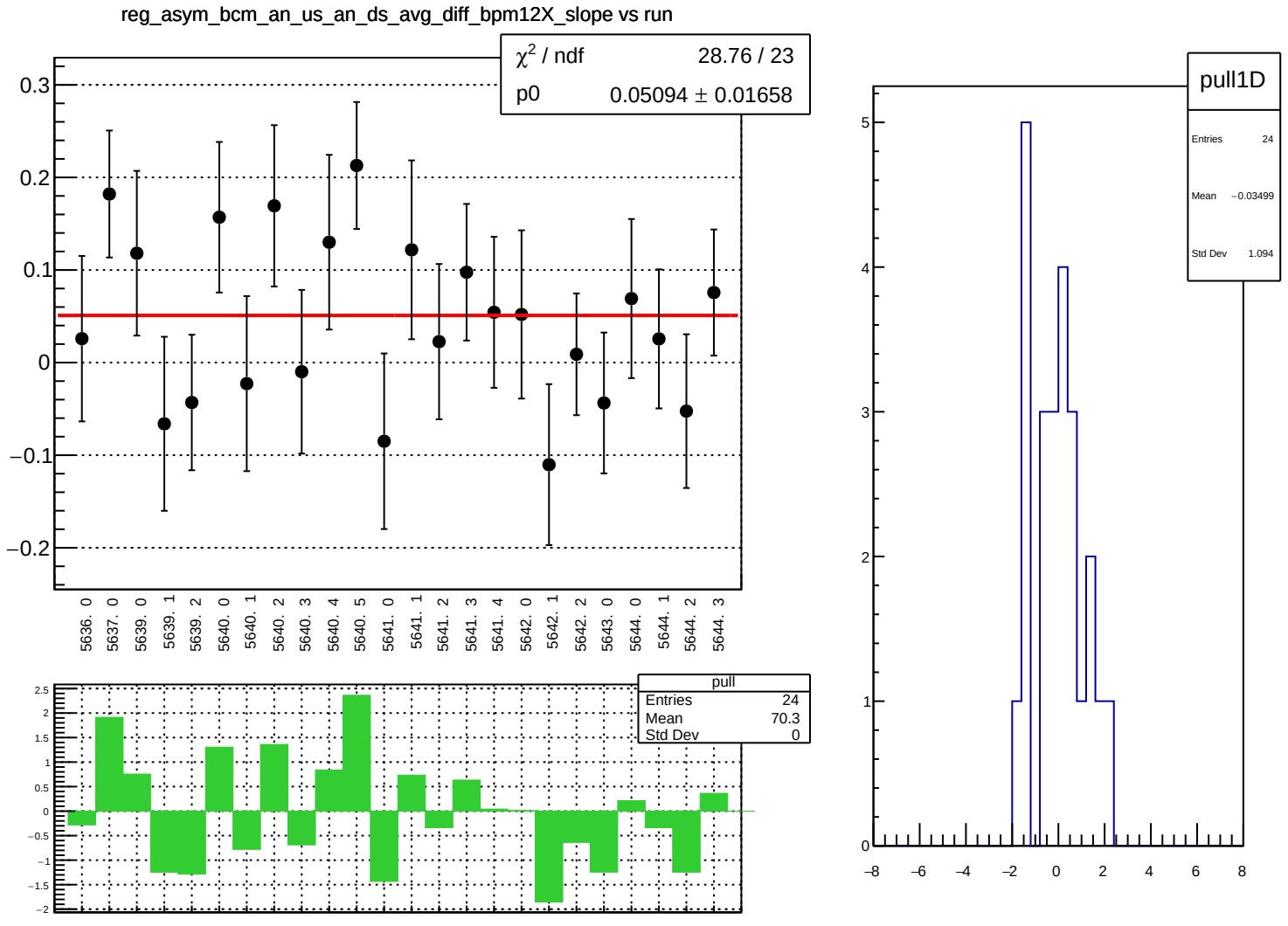

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 27.83 / 23
p0 0.01709 ± 0.005683
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 74.67
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.03389
Std Dev 1.076
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

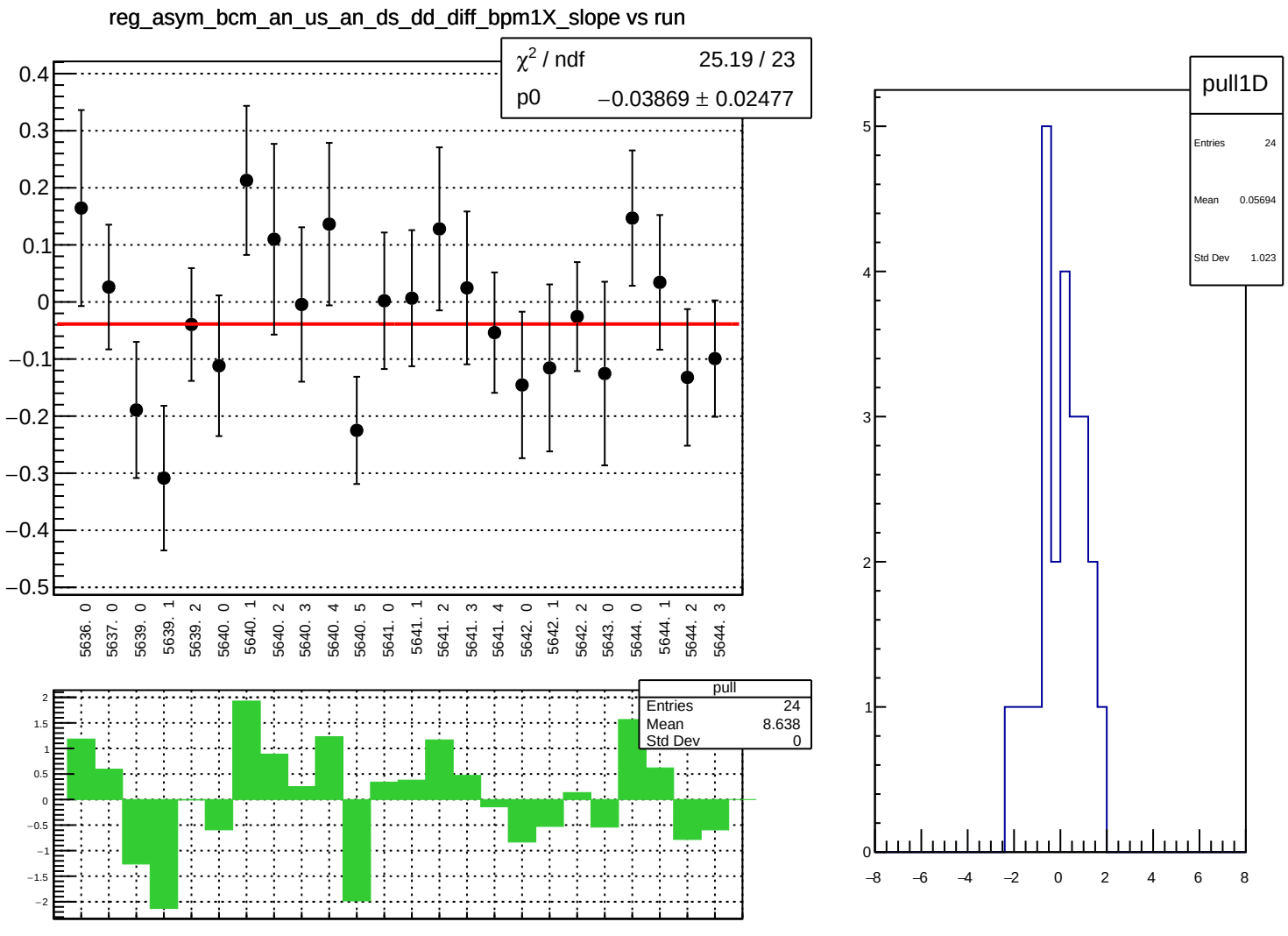

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 35.66 / 23
p0 −3.105 ± 0.4704
5
0
−5
−10
−15
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −876.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean −0.002237
Std Dev 1.219
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

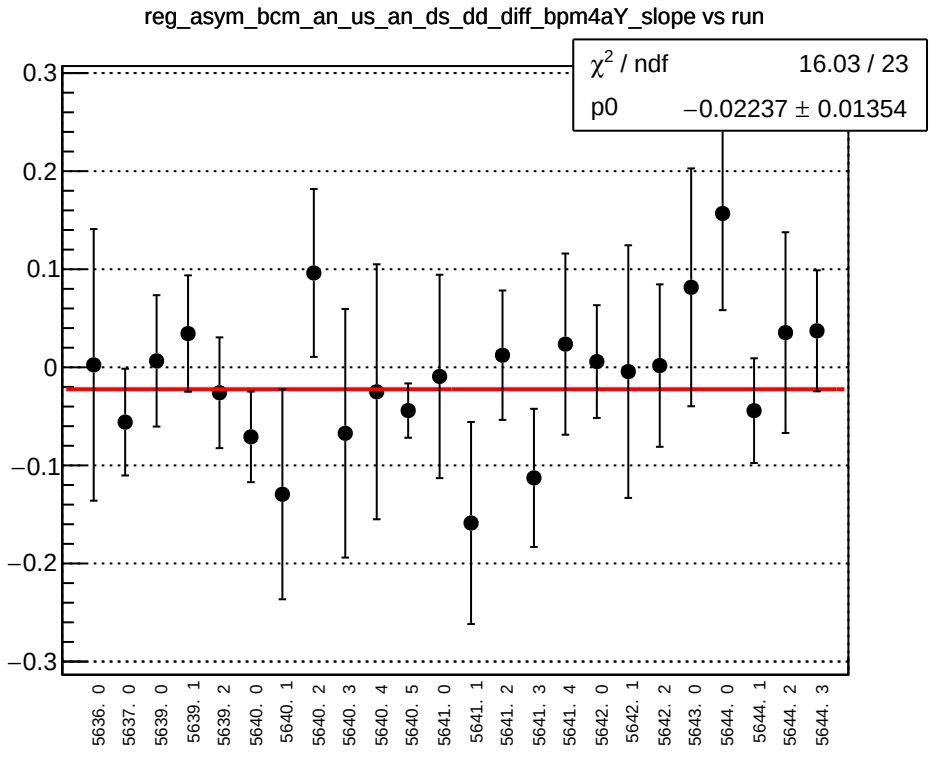

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 106.5 / 23
p0 2.206 ± 0.2642
14
12
10
8
6
4
2
0
−2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 13.71
Std Dev 7.547
4
3
2
1
0
−1
−2
−3
pull1D
Entries 24
Mean 0.6063
Std Dev 2.017
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

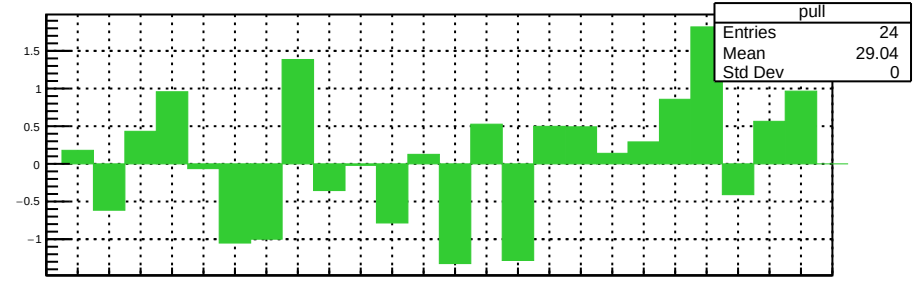

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 36.79 / 23
p0 2.547 ± 0.4081
15
10
5
0
−5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean −3135
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 24
Mean 0.0006534
Std Dev 1.238
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

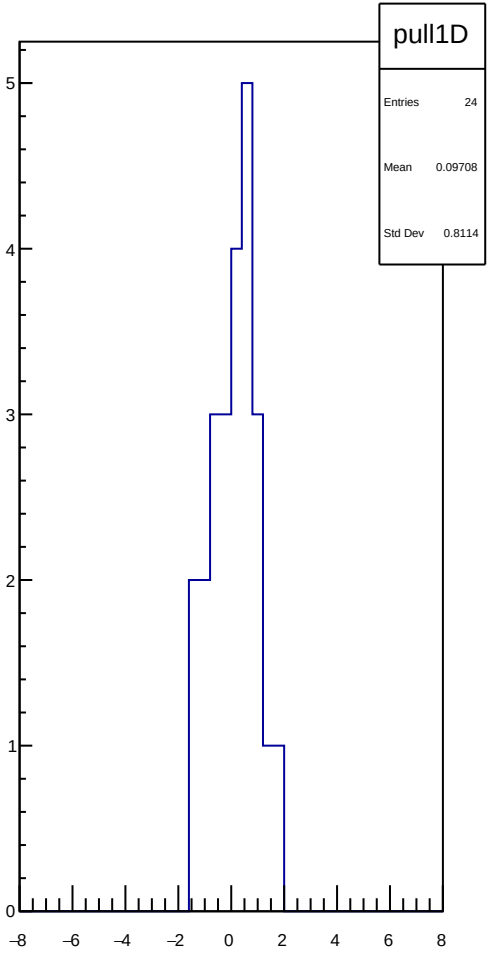

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 120.4 / 23
p0 −4.77 ± 0.3361
0
−5
−10
−15
−20
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 12.81
Std Dev 8.069
pull1D
Entries 24
Mean −0.6641
Std Dev 2.139

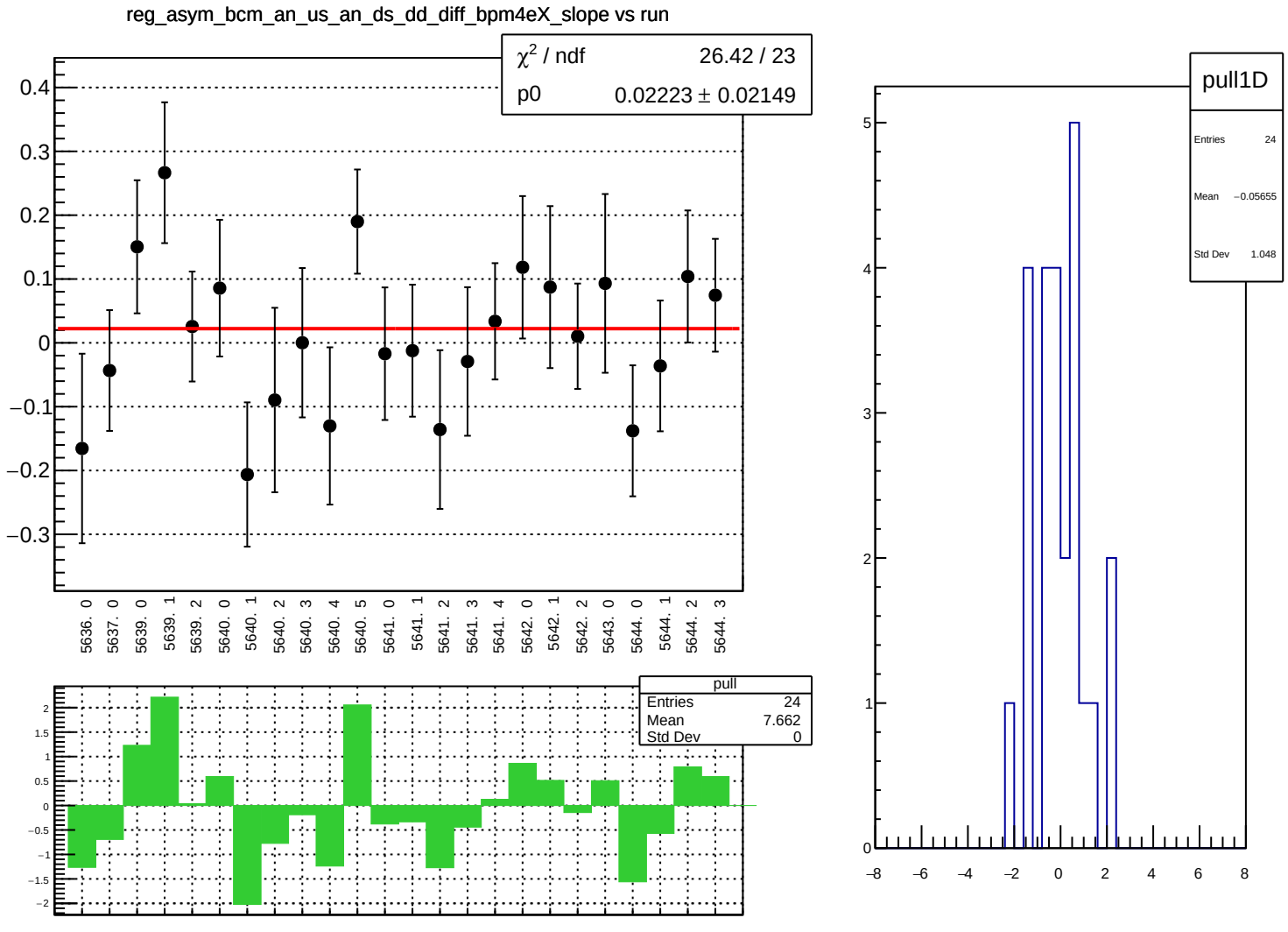

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 28.76 / 23
p0 0.05094 ± 0.01658
0.3
0.2
0.1
0
−0.1
−0.2
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 70.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.03499
Std Dev 1.094
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

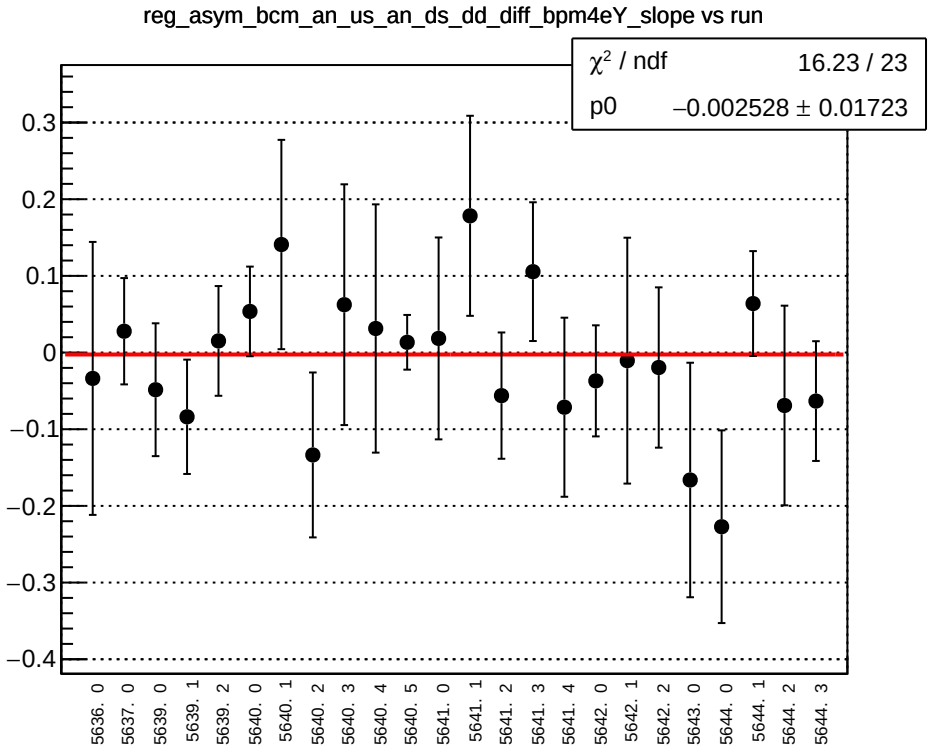

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 25.19 / 23
p0 −0.03869 ± 0.02477
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 8.638
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean 0.05694
Std Dev 1.023
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

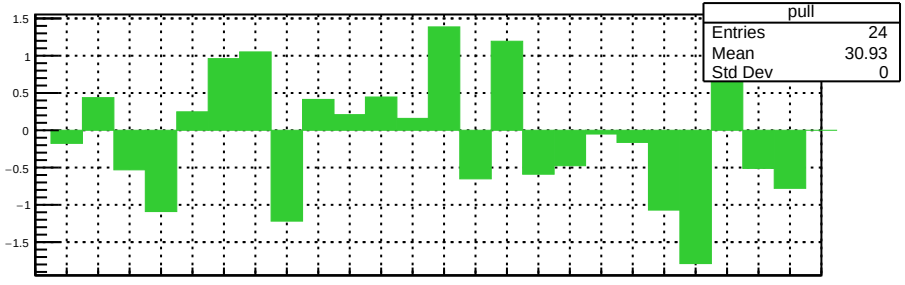

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.03 / 23
p0 −0.02237 ± 0.01354
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

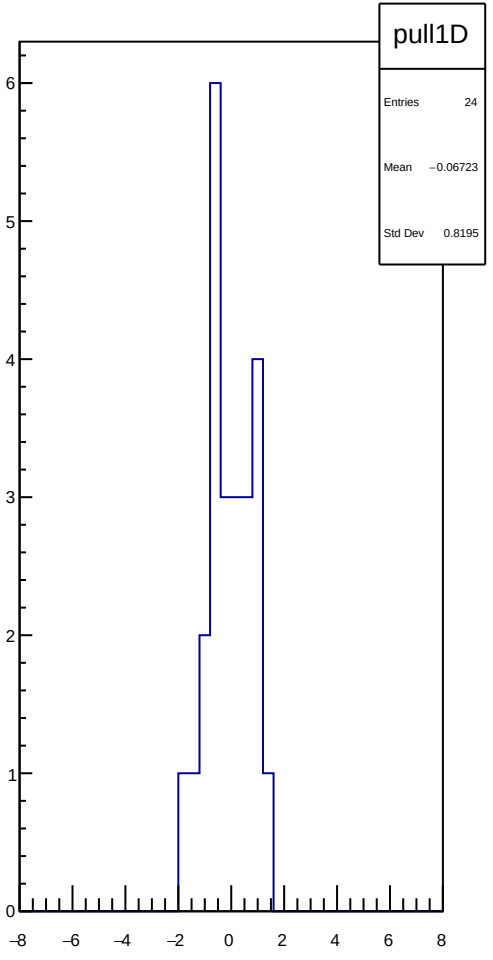

pull
Entries 24
Mean 29.04
Std Dev 0
1.5
1
0.5
0
−0.5
−1

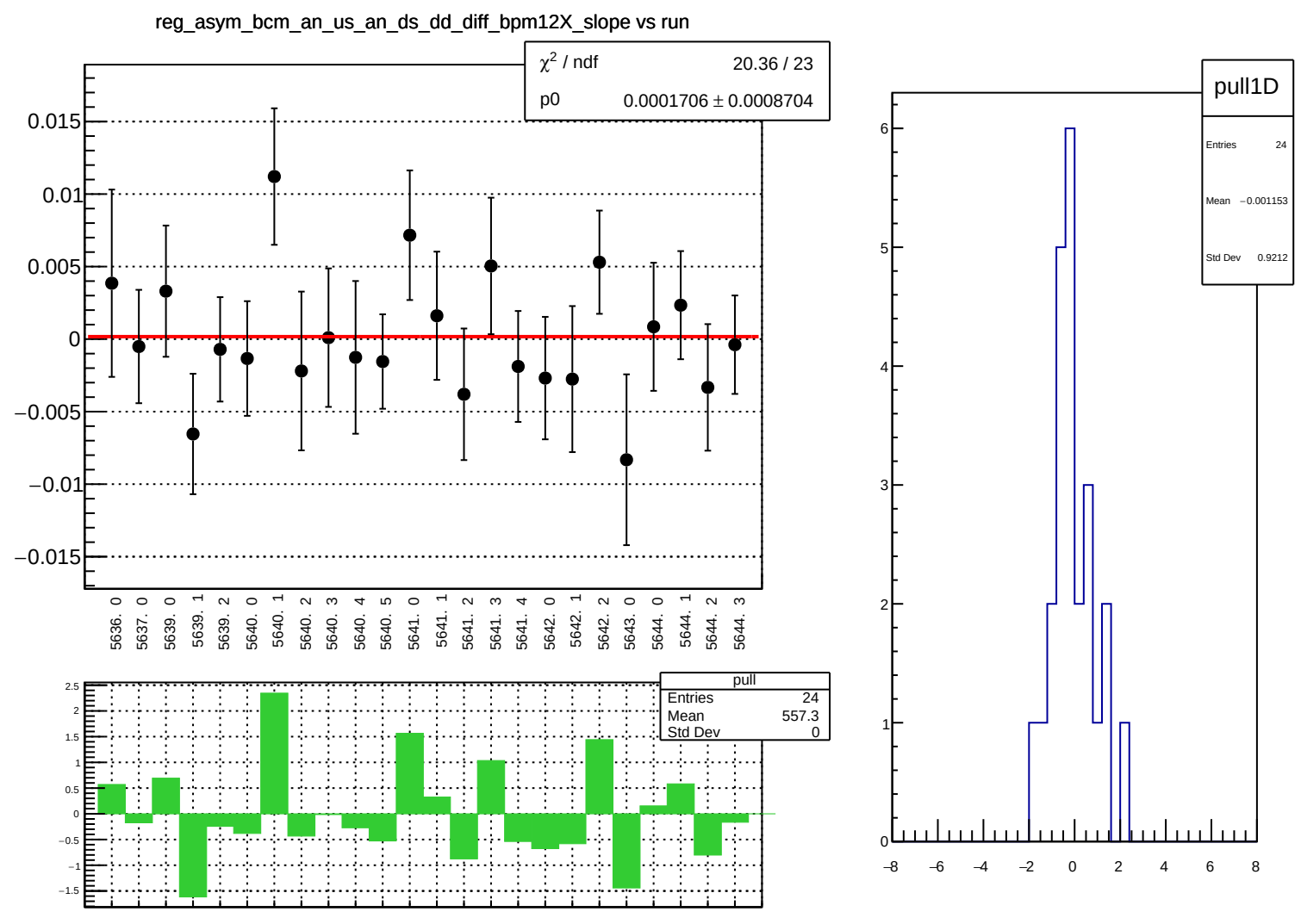

pull1D
Entries 24
Mean 0.09708
Std Dev 0.8114
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

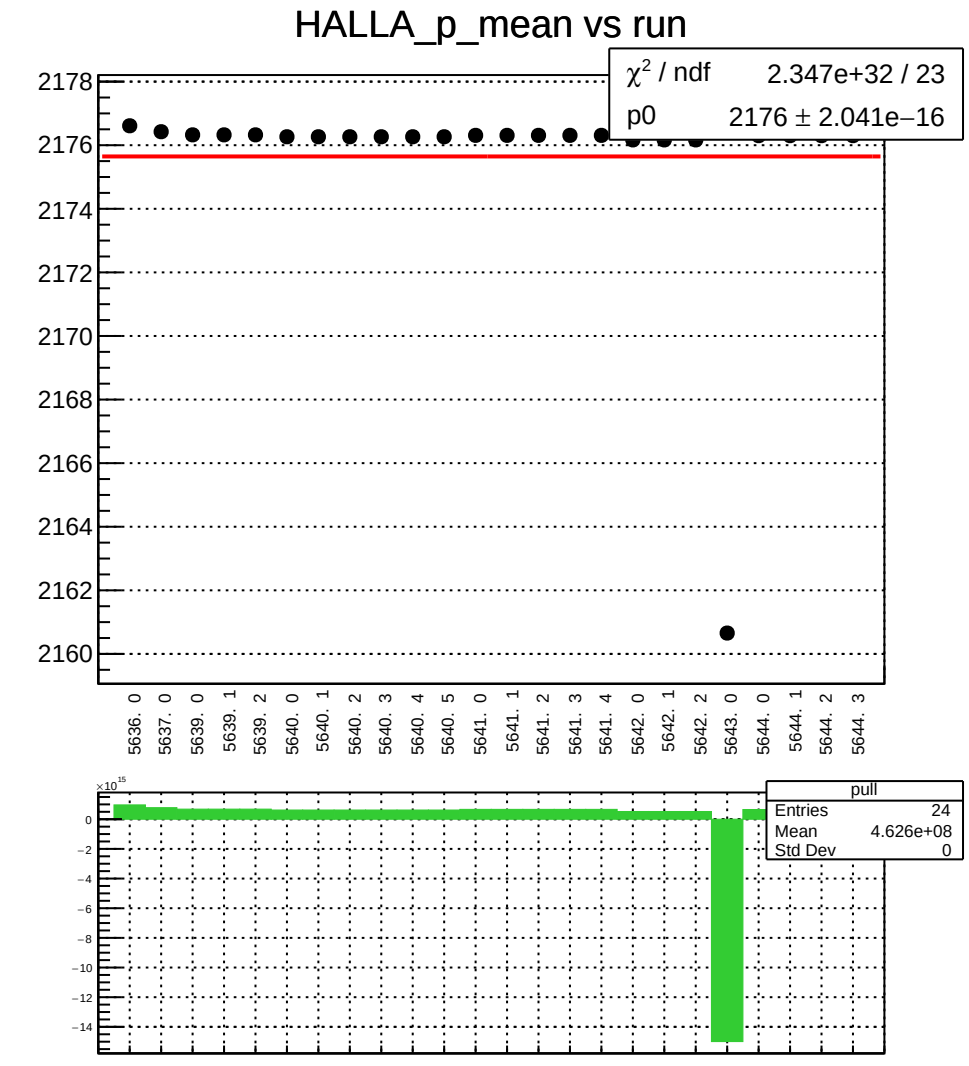

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 26.42 / 23
p0 0.02223 ± 0.02149
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 7.662
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 24
Mean −0.05655
Std Dev 1.048
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

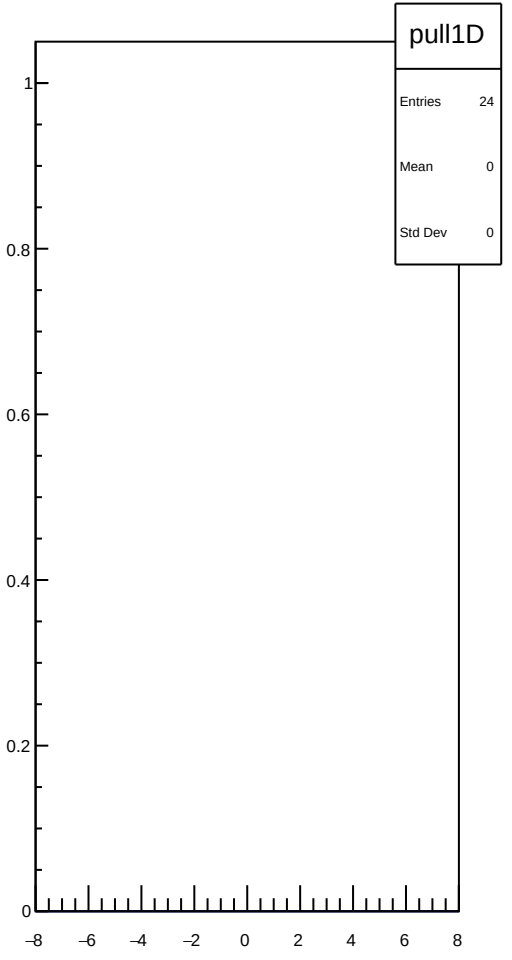

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.23 / 23
p0 −0.002528 ± 0.01723
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

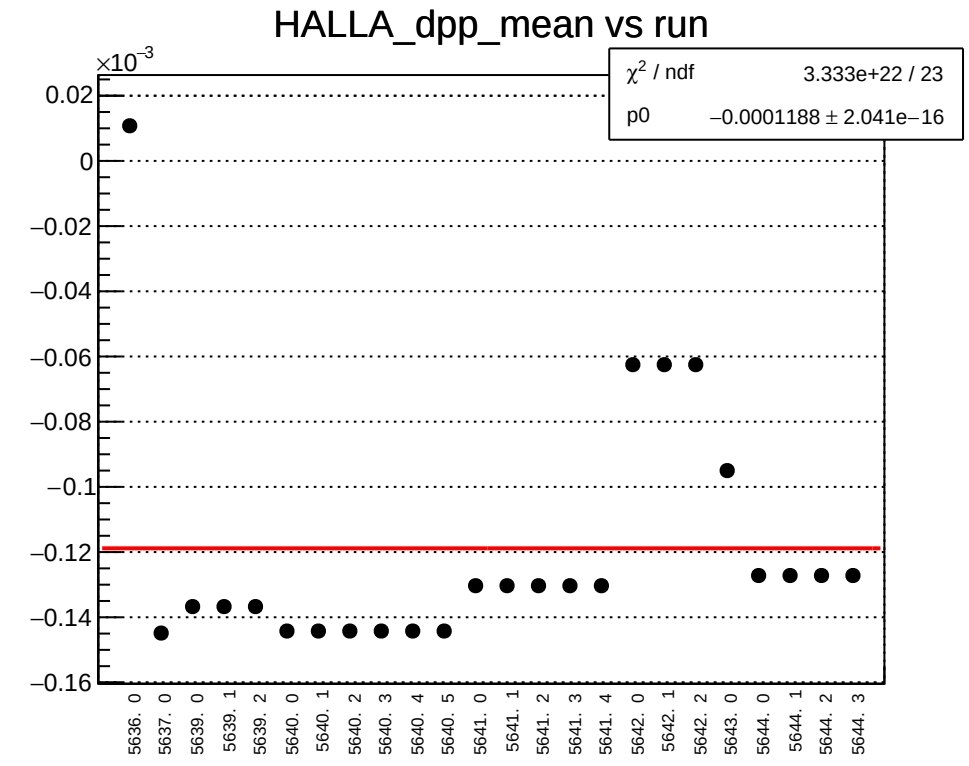

pull
Entries 24
Mean 30.93
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

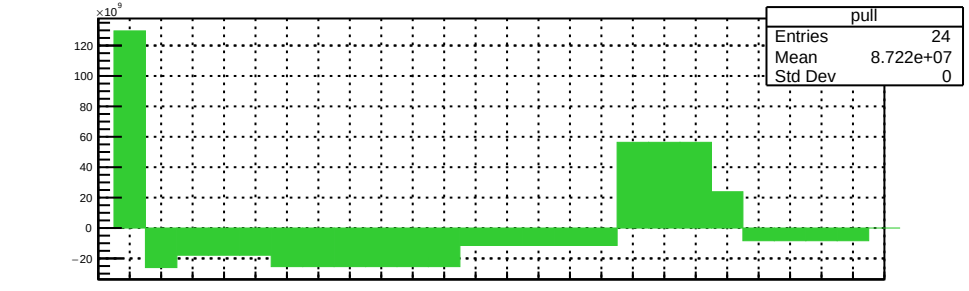

pull1D
Entries 24
Mean −0.06723
Std Dev 0.8195
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

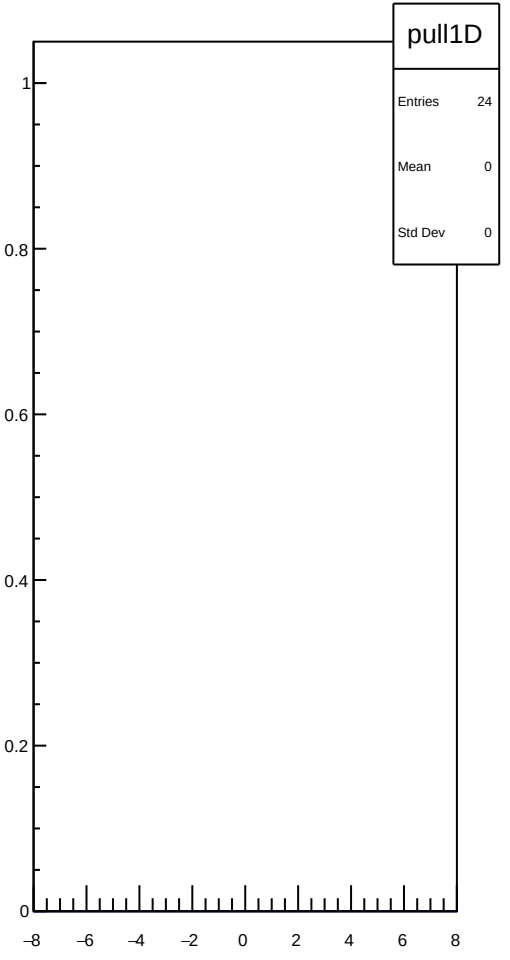

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 20.36 / 23
p0 0.0001706 ± 0.0008704
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 557.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 24
Mean −0.001153
Std Dev 0.9212
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

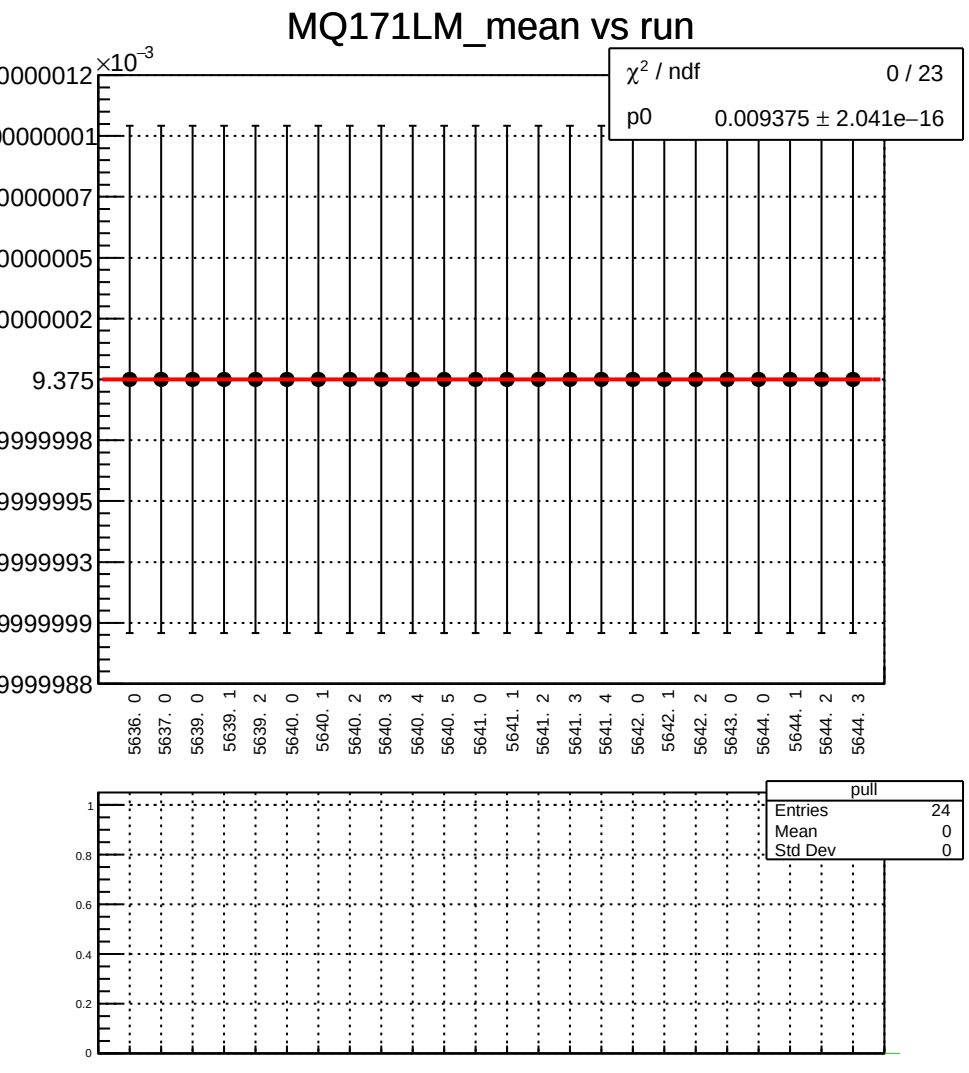

HALLA_p_mean vs run
χ² / ndf 2.347e+32 / 23
p0 2176 ± 2.041e−16
2178
2176
2174
2172
2170
2168
2166
2164
2162
2160
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
×10¹⁵
0
−2
−4
−6
−8
−10
−12
−14
pull
Entries 24
Mean 4.626e+08
Std Dev 0

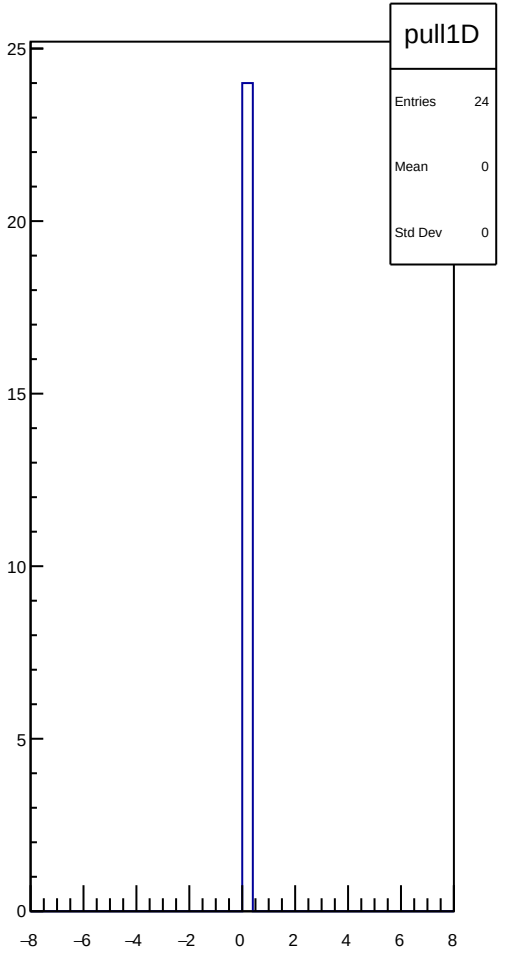

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

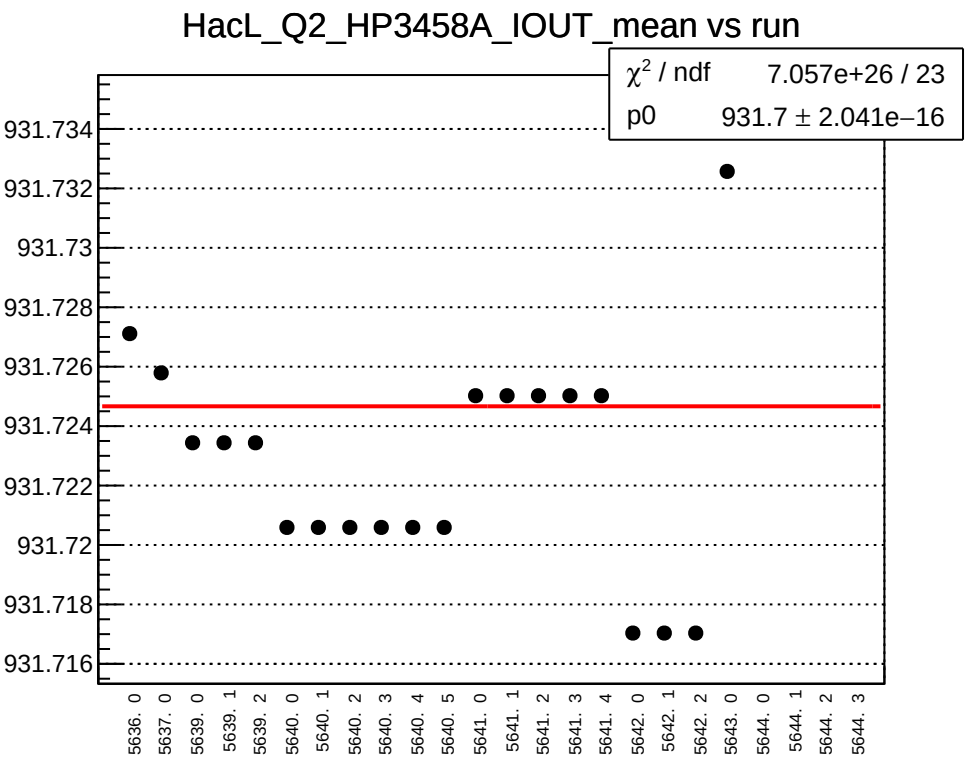

HALLA_dpp_mean vs run
χ² / ndf 3.333e+22 / 23
p0 −0.0001188 ± 2.041e−16
×10⁻³
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

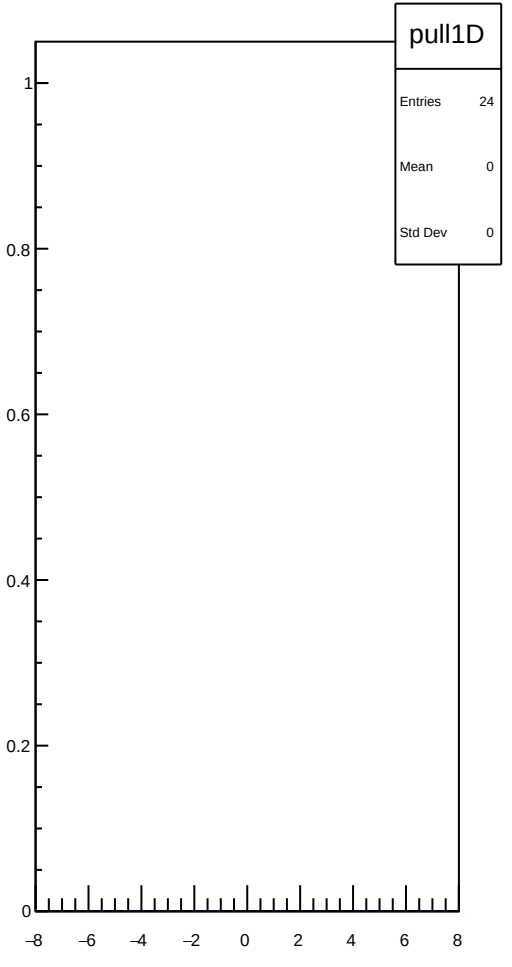

pull
Entries 24
Mean 8.722e+07
Std Dev 0
×10⁹
120
100
80
60
40
20
0
−20

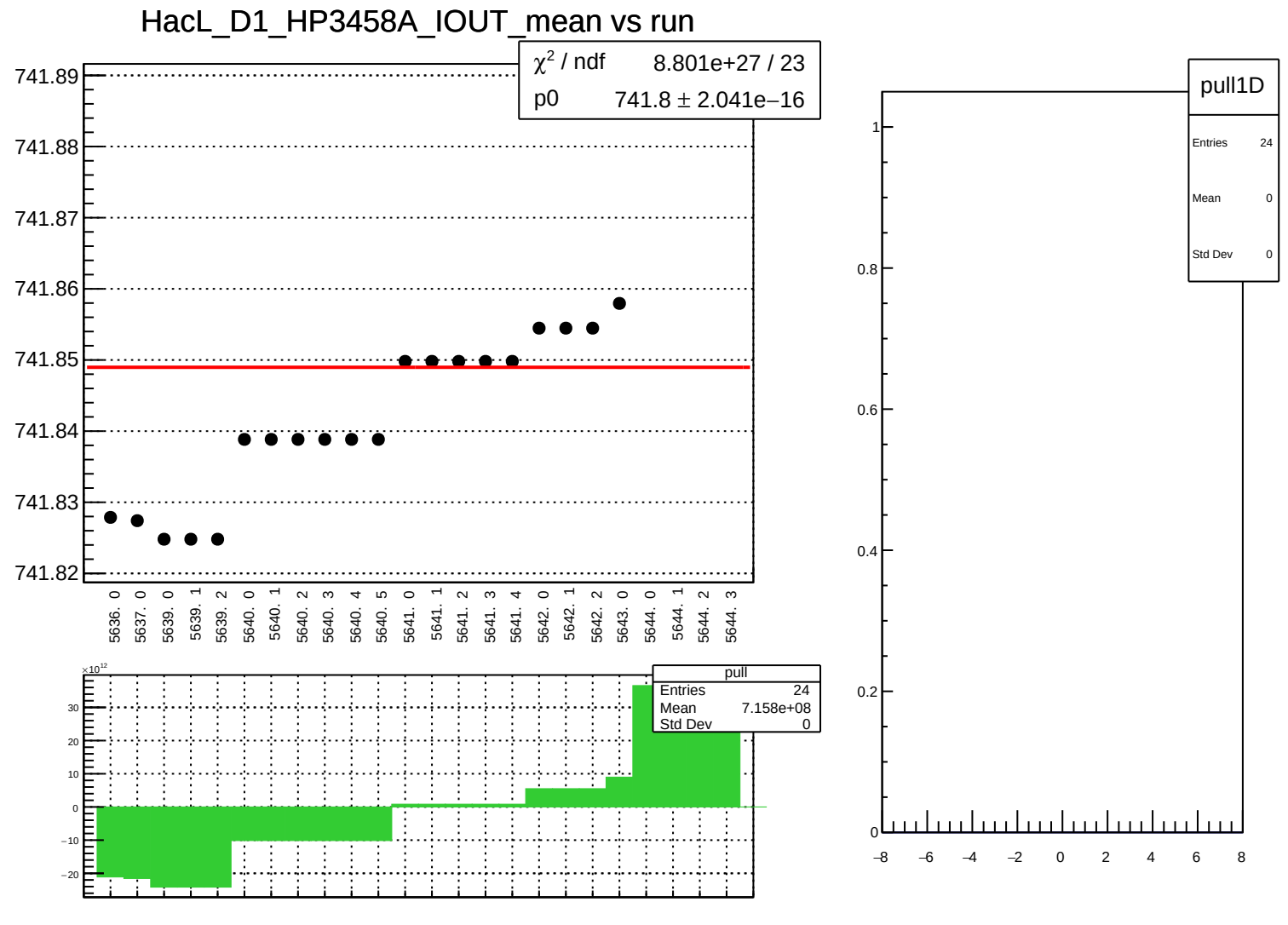

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

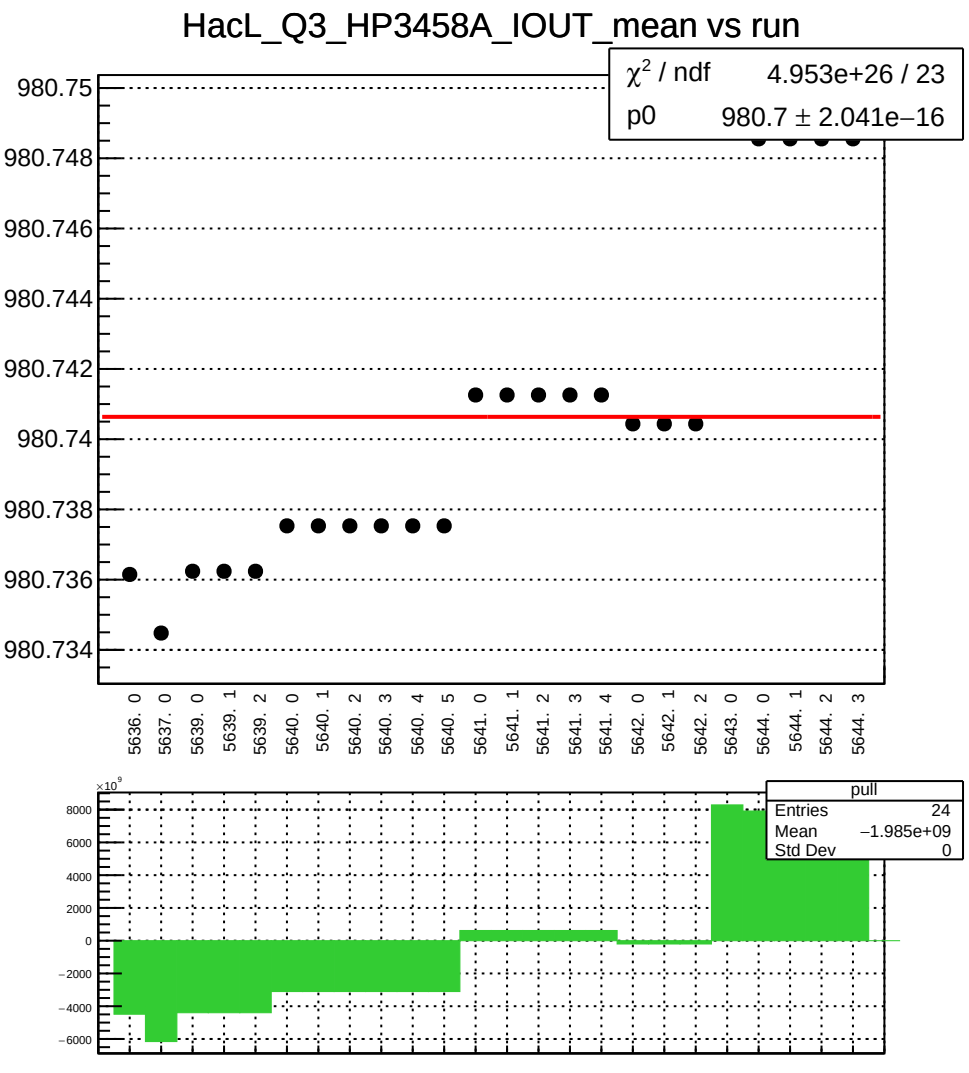

MQ171LM_mean vs run
×10⁻³
χ² / ndf 0 / 23
p0 0.009375 ± 2.041e−16
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

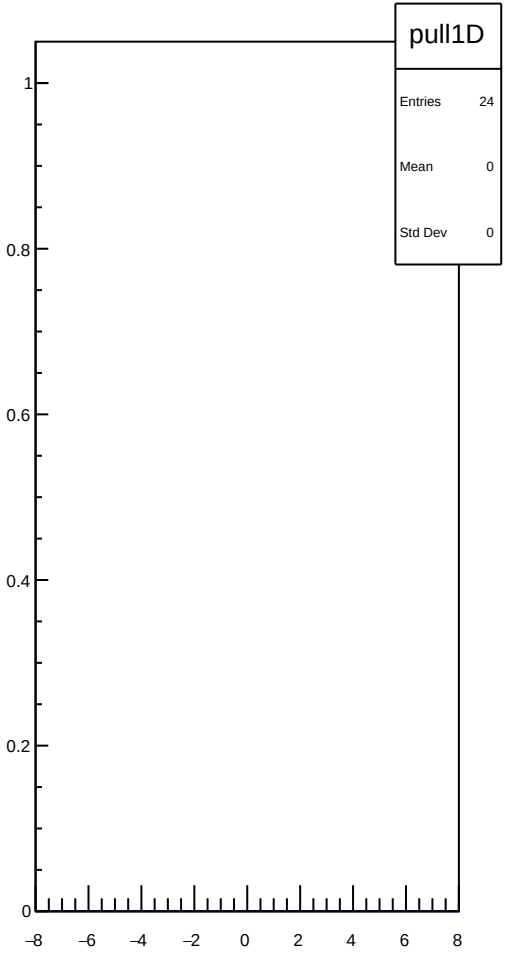

pull1D
Entries 24
Mean 0
Std Dev 0
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

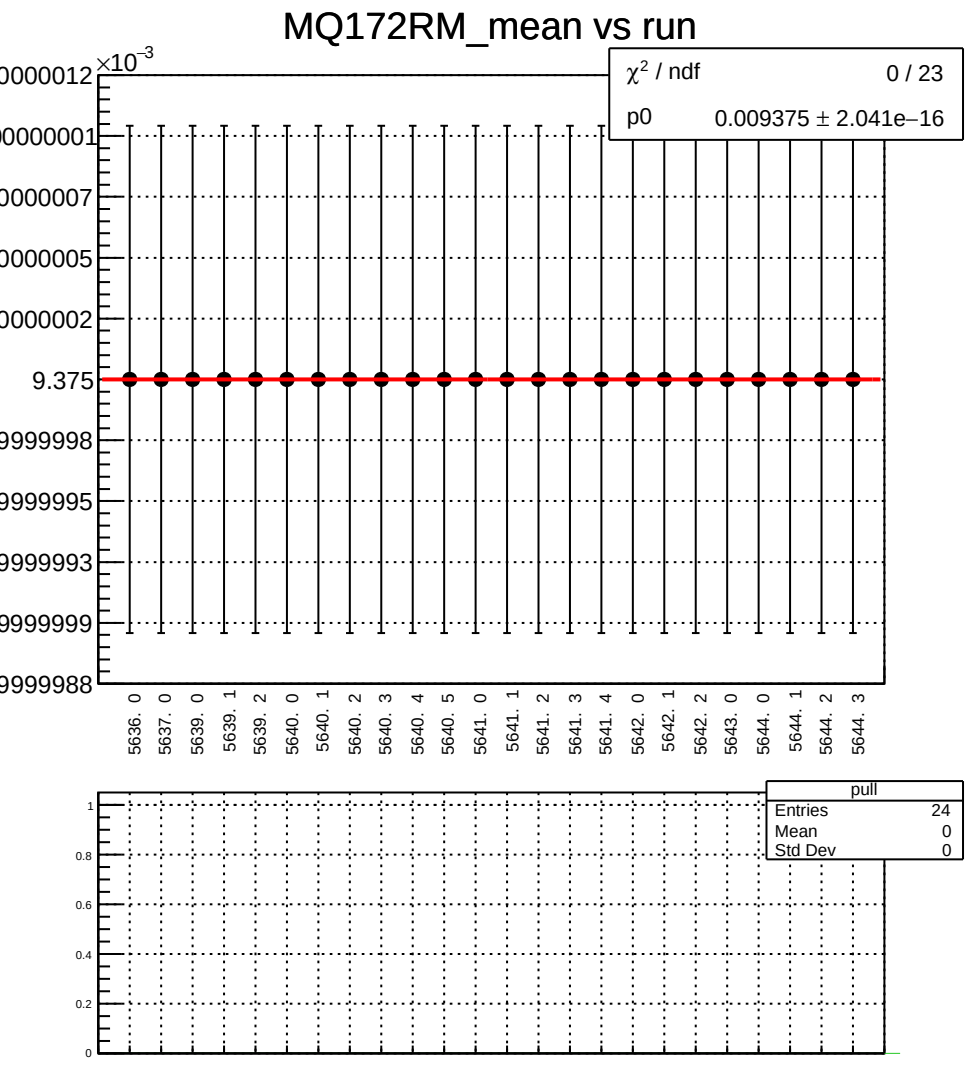

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 7.057e+26 / 23
p0 931.7 ± 2.041e−16
931.734
931.732
931.73
931.728
931.726
931.724
931.722
931.72
931.718
931.716
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
×10⁹
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 24
Mean 1.808e+08
Std Dev 0

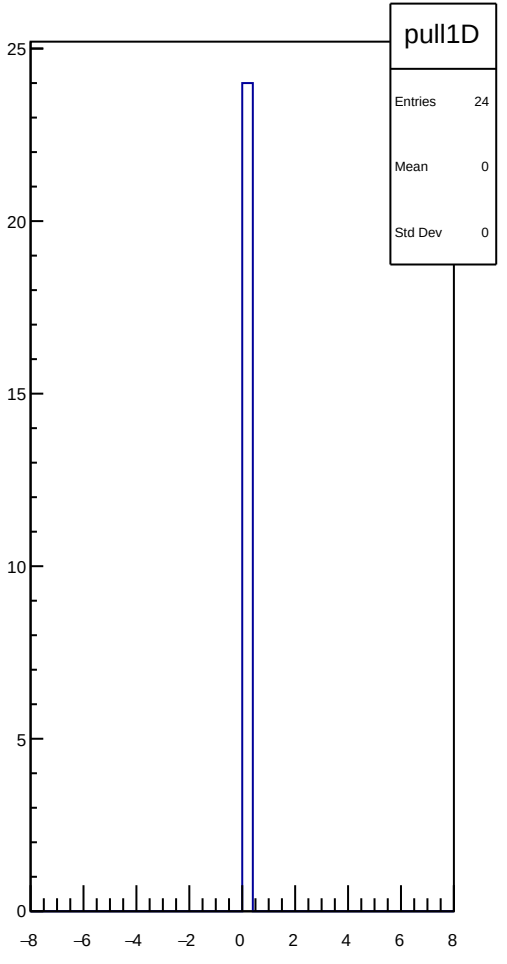

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

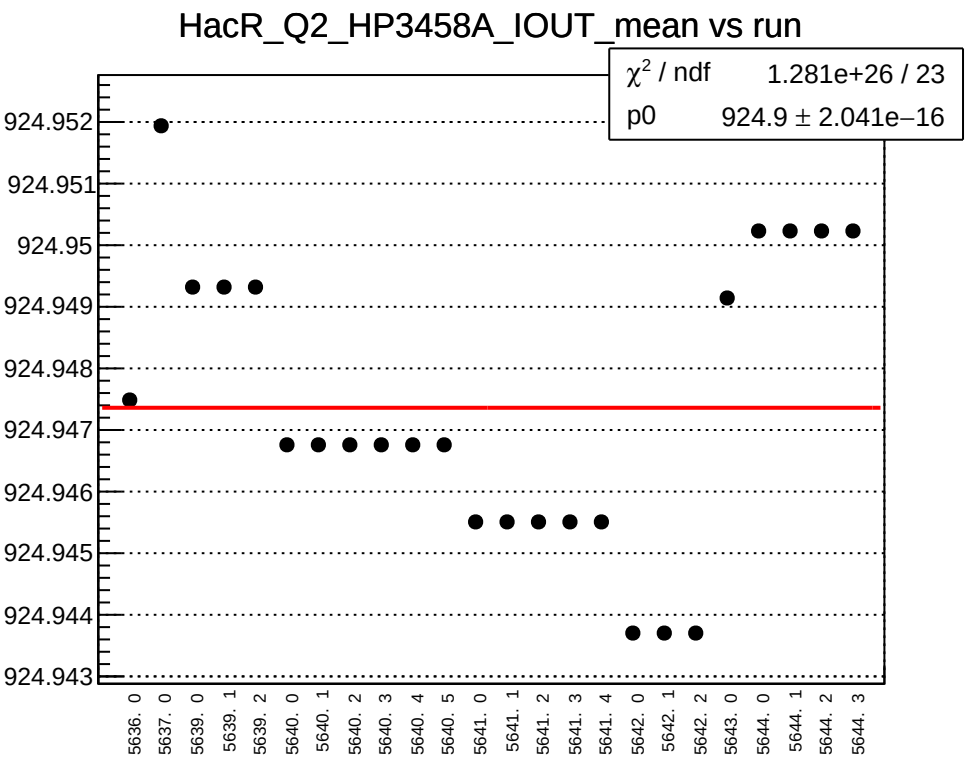

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 8.801e+27 / 23
p0 741.8 ± 2.041e−16
741.89
741.88
741.87
741.86
741.85
741.84
741.83
741.82
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 7.158e+08
Std Dev 0
pull1D
Entries 24
Mean 0
Std Dev 0

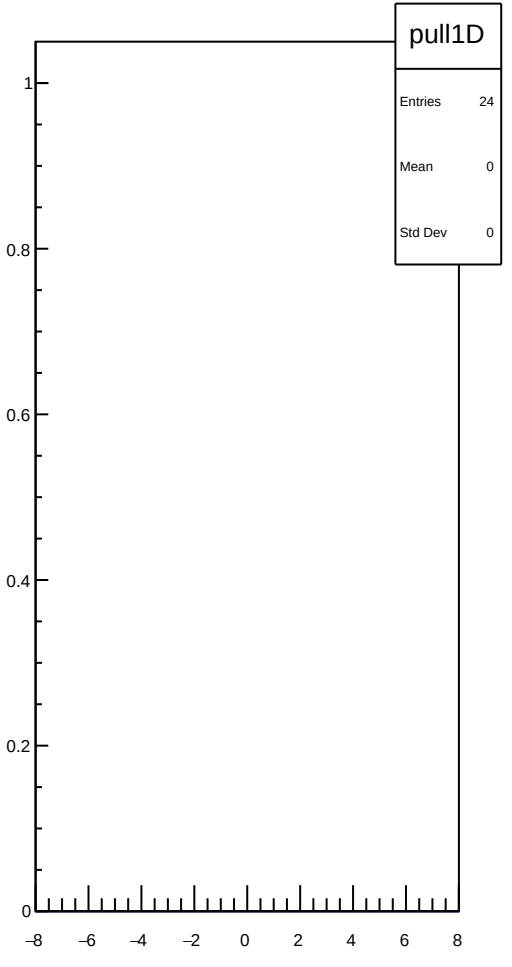

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 4.953e+26 / 23
p0 980.7 ± 2.041e−16
980.75
980.748
980.746
980.744
980.742
980.74
980.738
980.736
980.734
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
×10⁹
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 24
Mean −1.985e+09
Std Dev 0

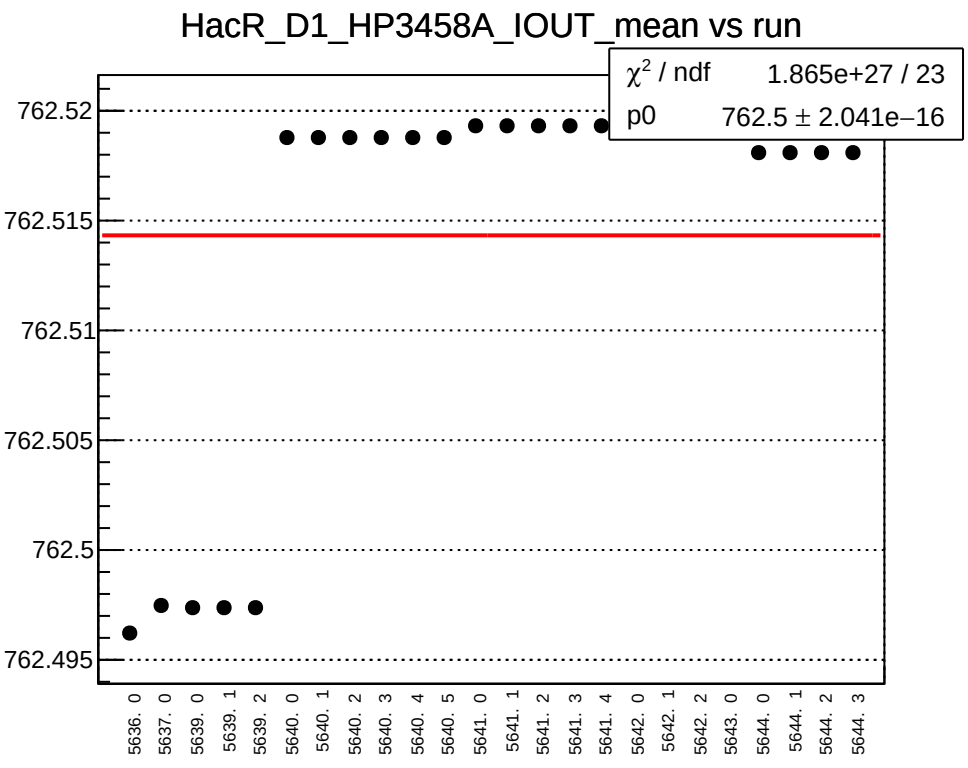

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

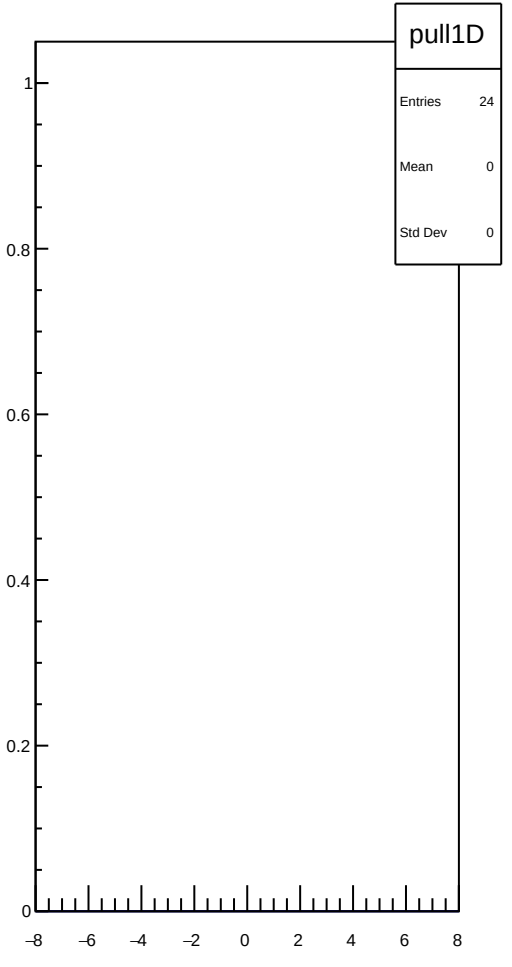

MQ172RM_mean vs run
×10⁻³
χ² / ndf 0 / 23
p0 0.009375 ± 2.041e−16
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

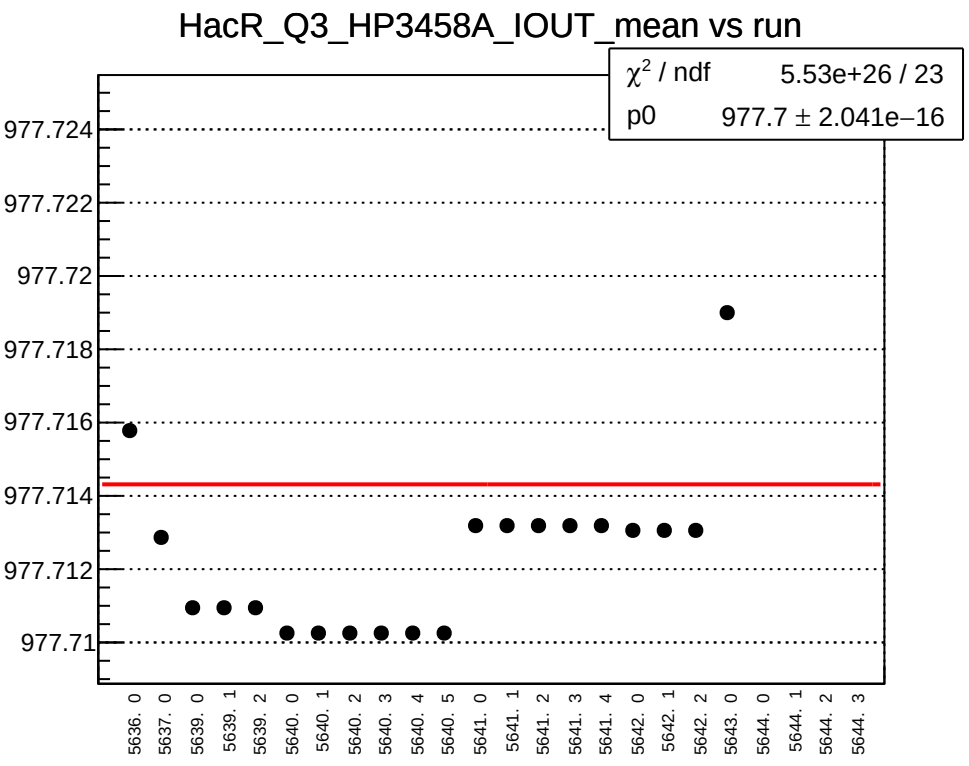

pull1D
Entries 24
Mean 0
Std Dev 0
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

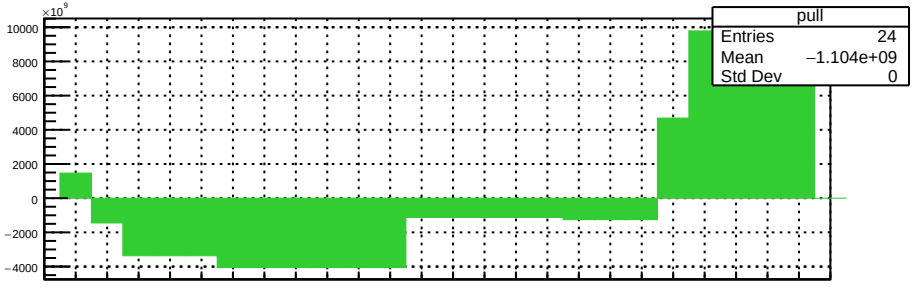

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.281e+26 / 23
p0 924.9 ± 2.041e−16
924.952
924.951
924.95
924.949
924.948
924.947
924.946
924.945
924.944
924.943
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
×10⁹
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 24
Mean 7.595e+08
Std Dev 0

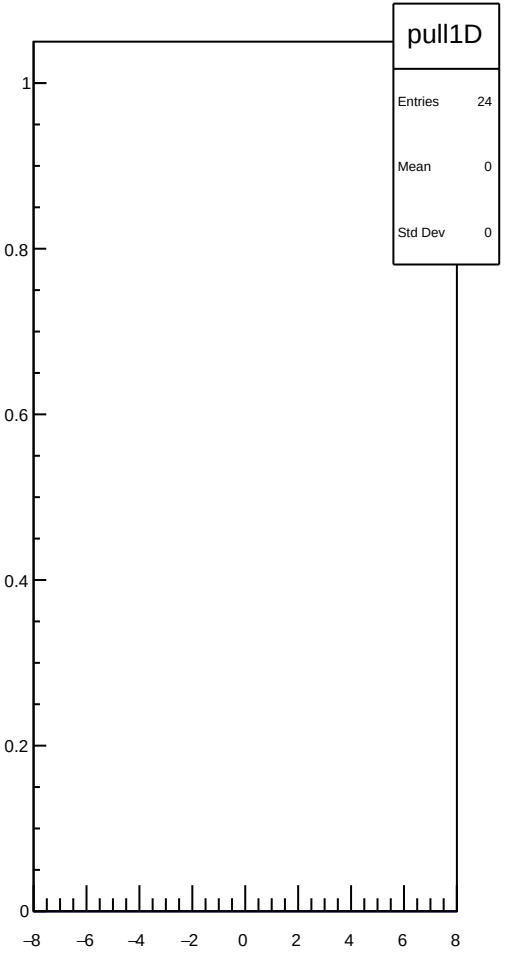

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

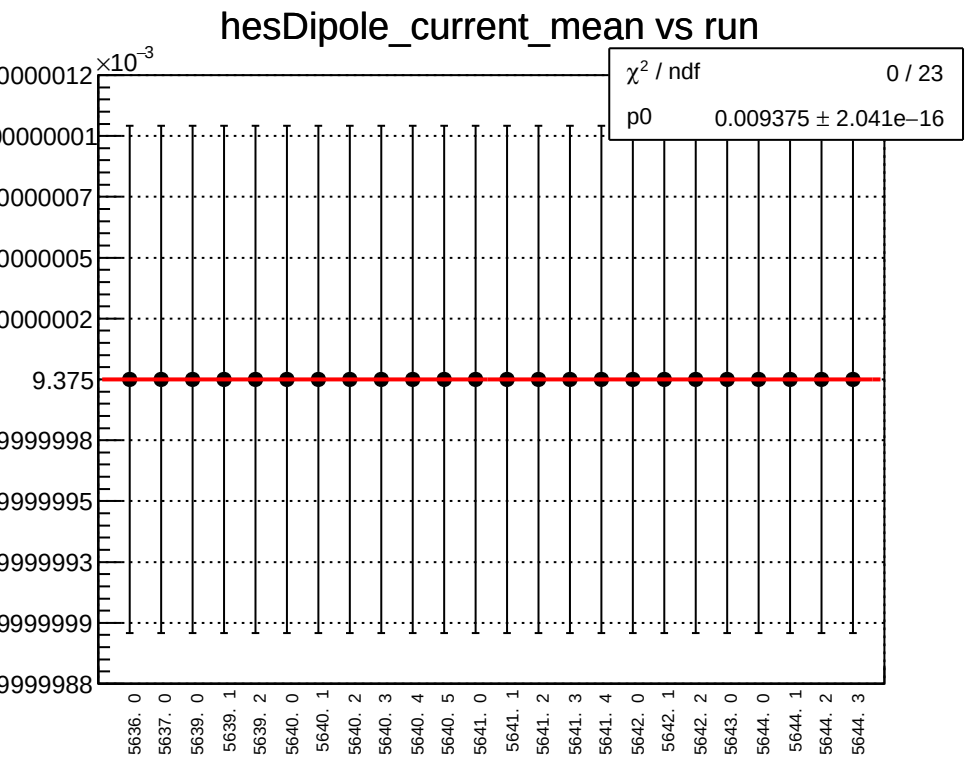

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.865e+27 / 23
p0 762.5 ± 2.041e−16
762.52
762.515
762.51
762.505
762.5
762.495
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
×10¹²
5
0
−5
−10
−15
pull
Entries 24
Mean −1.933e+09
Std Dev 0

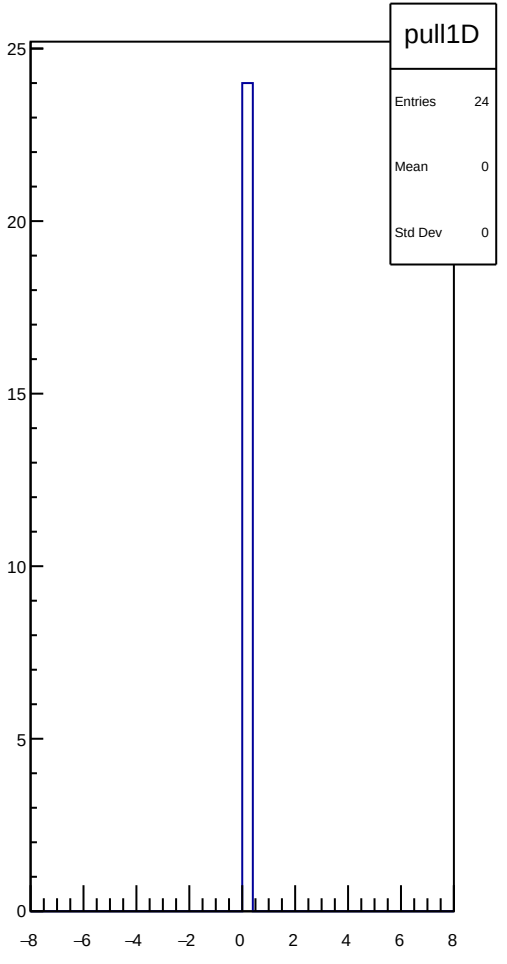

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

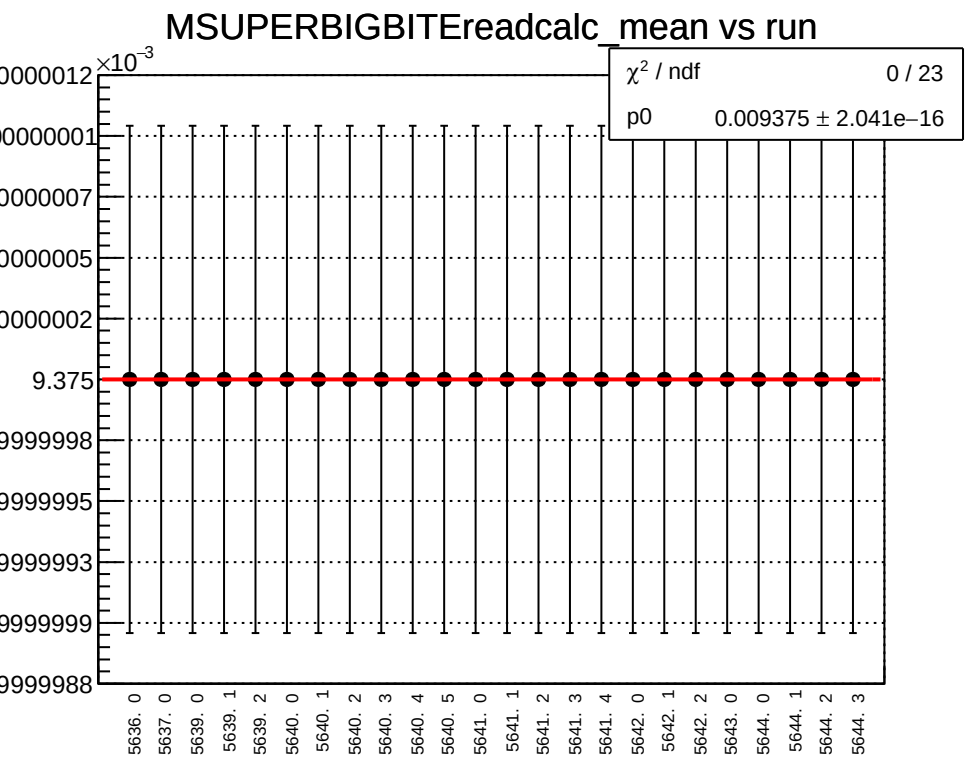

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 5.53e+26 / 23
p0 977.7 ± 2.041e−16
977.724
977.722
977.72
977.718
977.716
977.714
977.712
977.71
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3

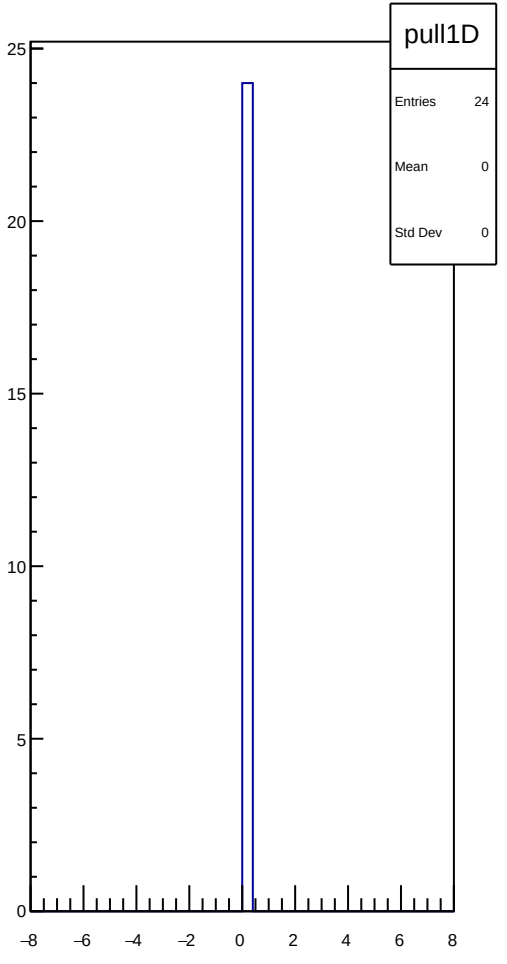

×10⁹
10000
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 24
Mean −1.104e+09
Std Dev 0

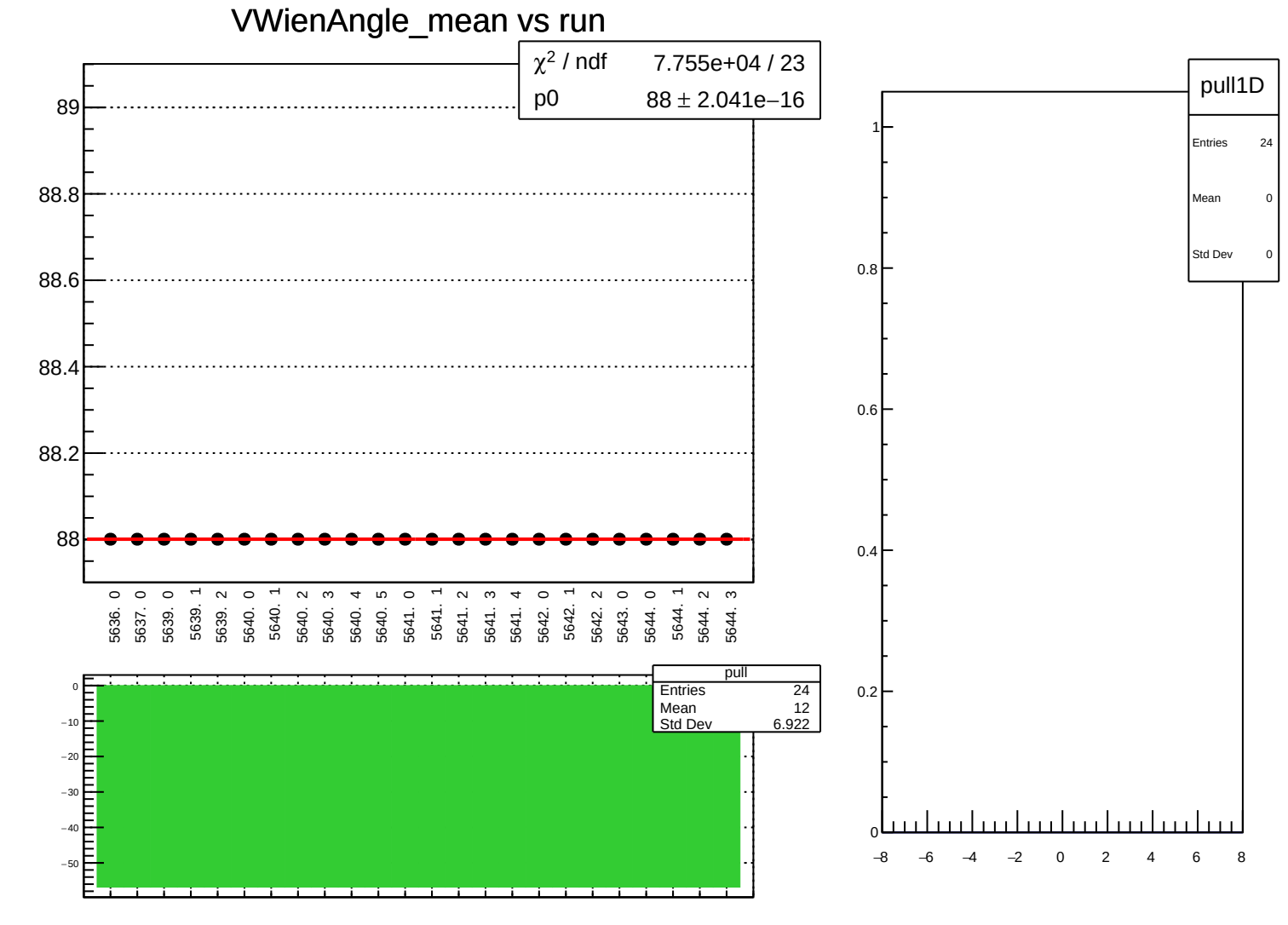

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

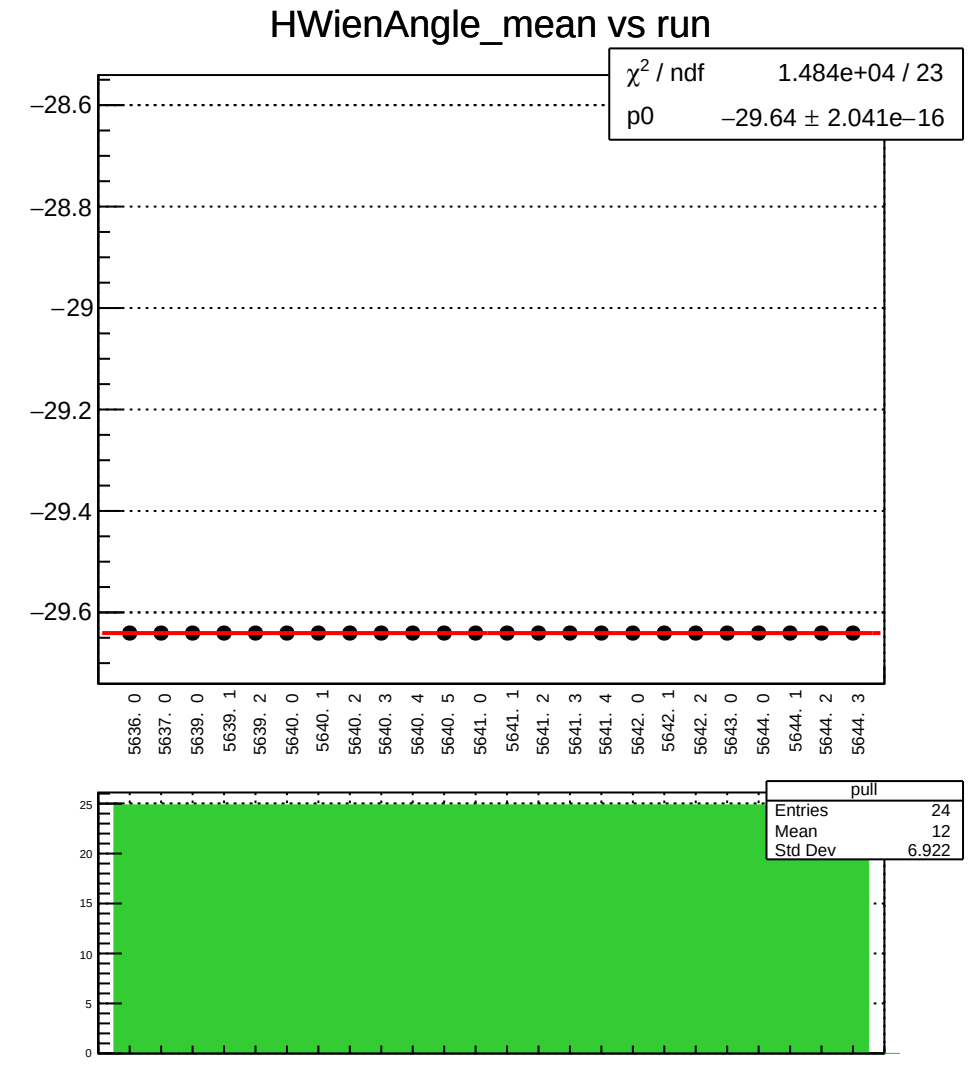

hesDipole_current_mean vs run
×10⁻³
χ² / ndf 0 / 23
p0 0.009375 ± 2.041e−16
9.375
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 0
Std Dev 0

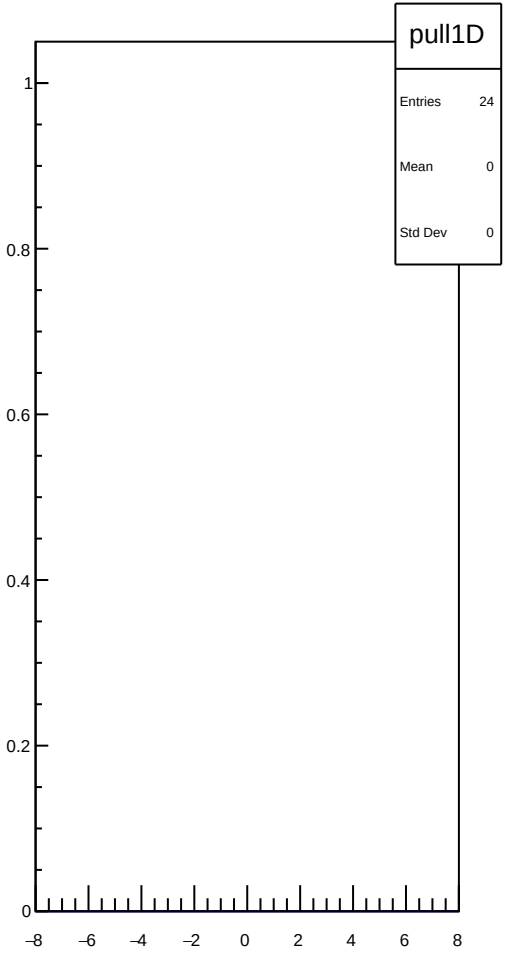

pull1D
Entries 24
Mean 0
Std Dev 0

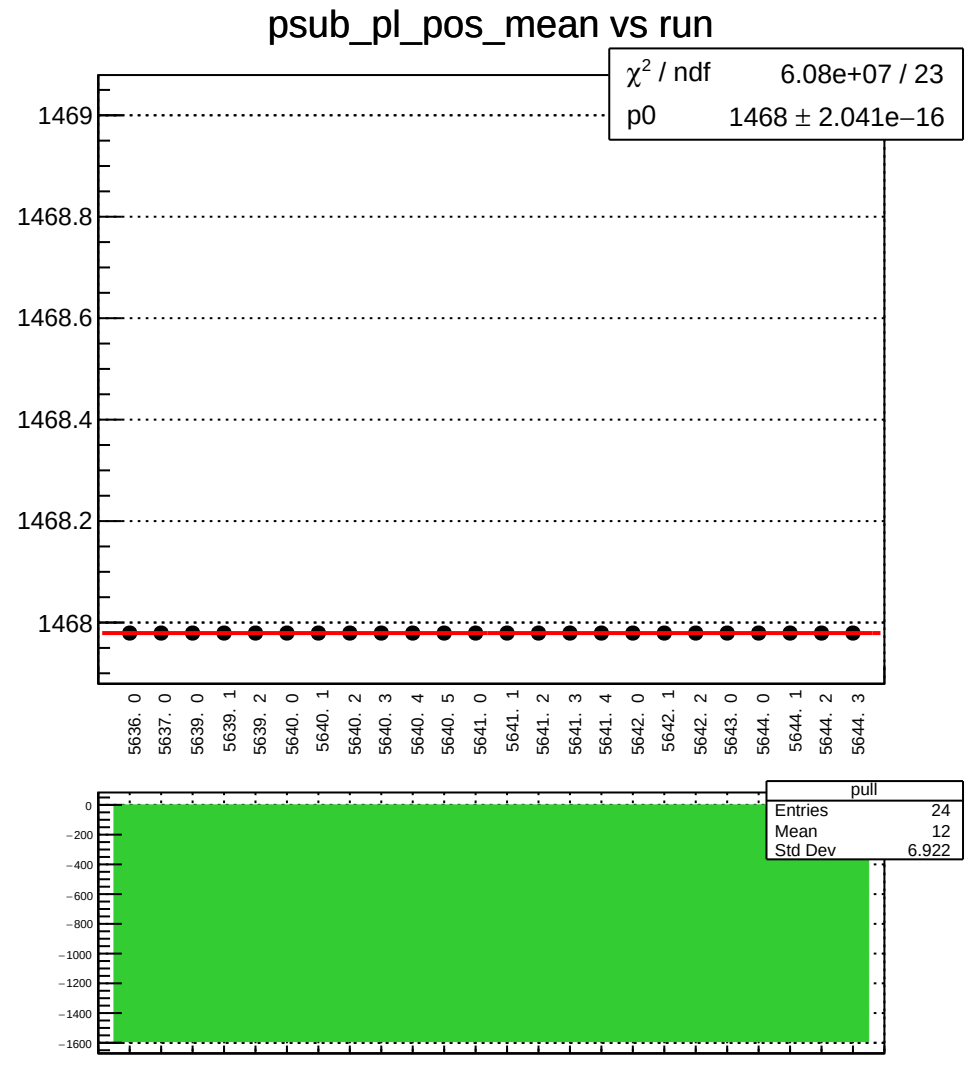

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0 / 23
p0 0.009375 ± 2.041e−16
×10⁻³
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

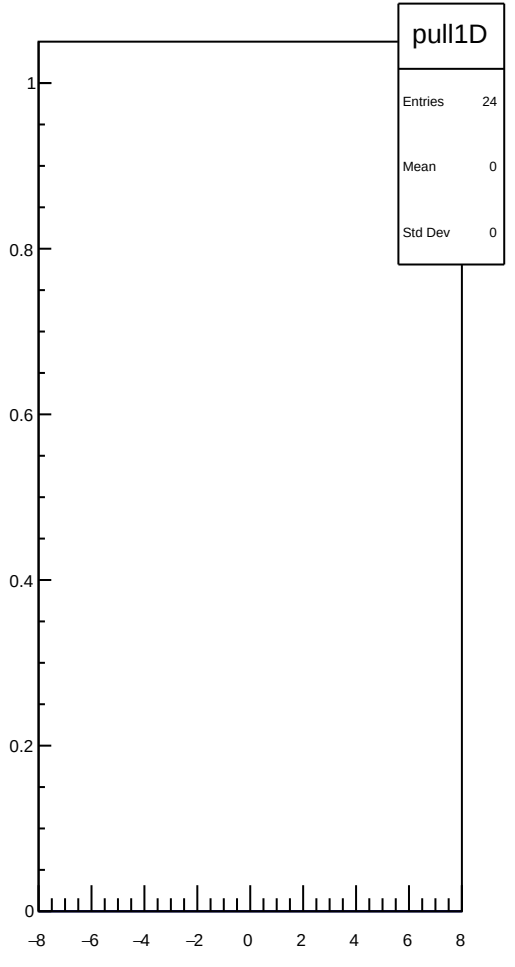

pull1D
Entries 24
Mean 0
Std Dev 0
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

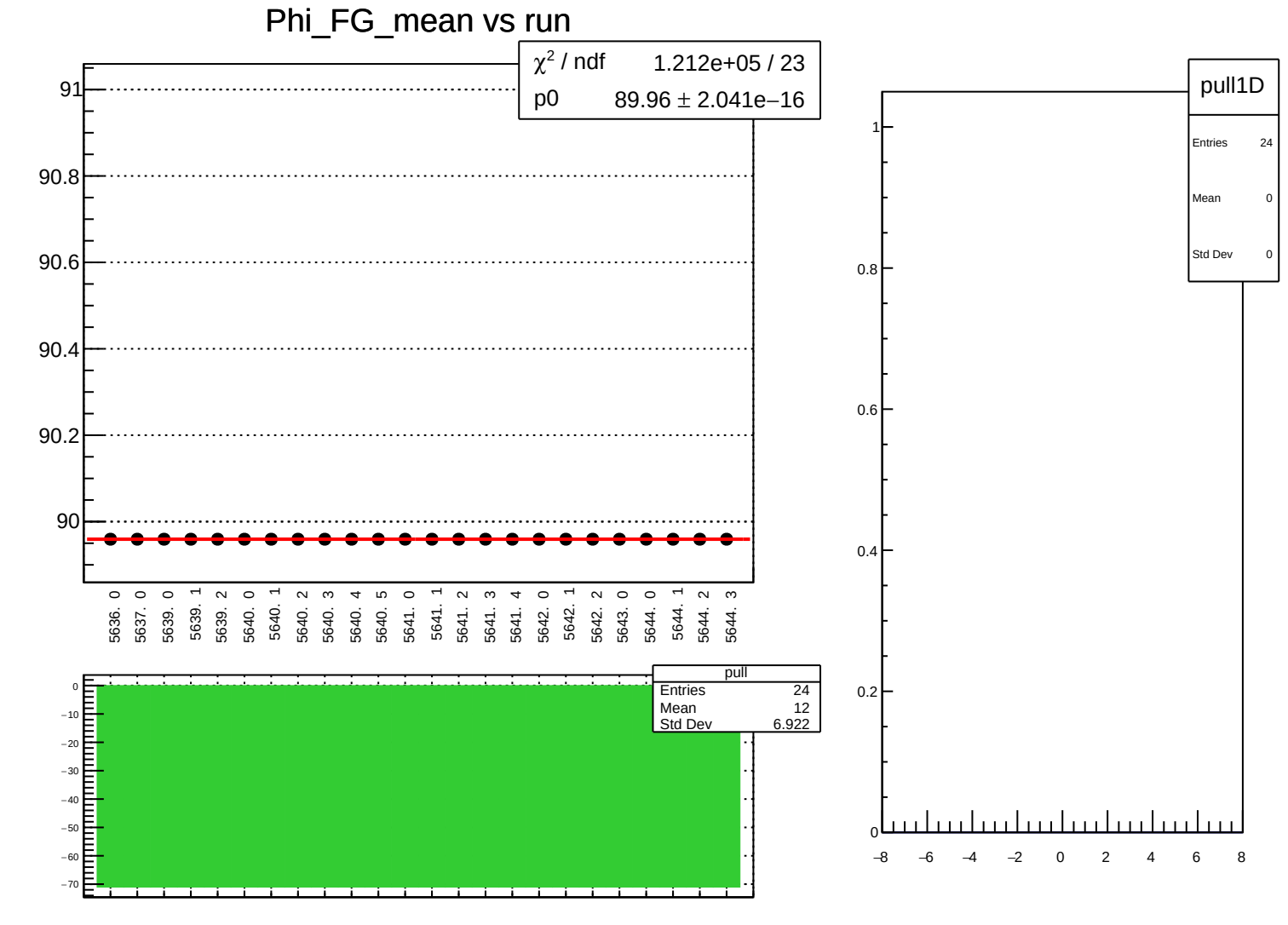

VWienAngle_mean vs run
χ² / ndf 7.755e+04 / 23
p0 88 ± 2.041e−16
89
88.8
88.6
88.4
88.2
88
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 12
Std Dev 6.922
0
−10
−20
−30
−40
−50
pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

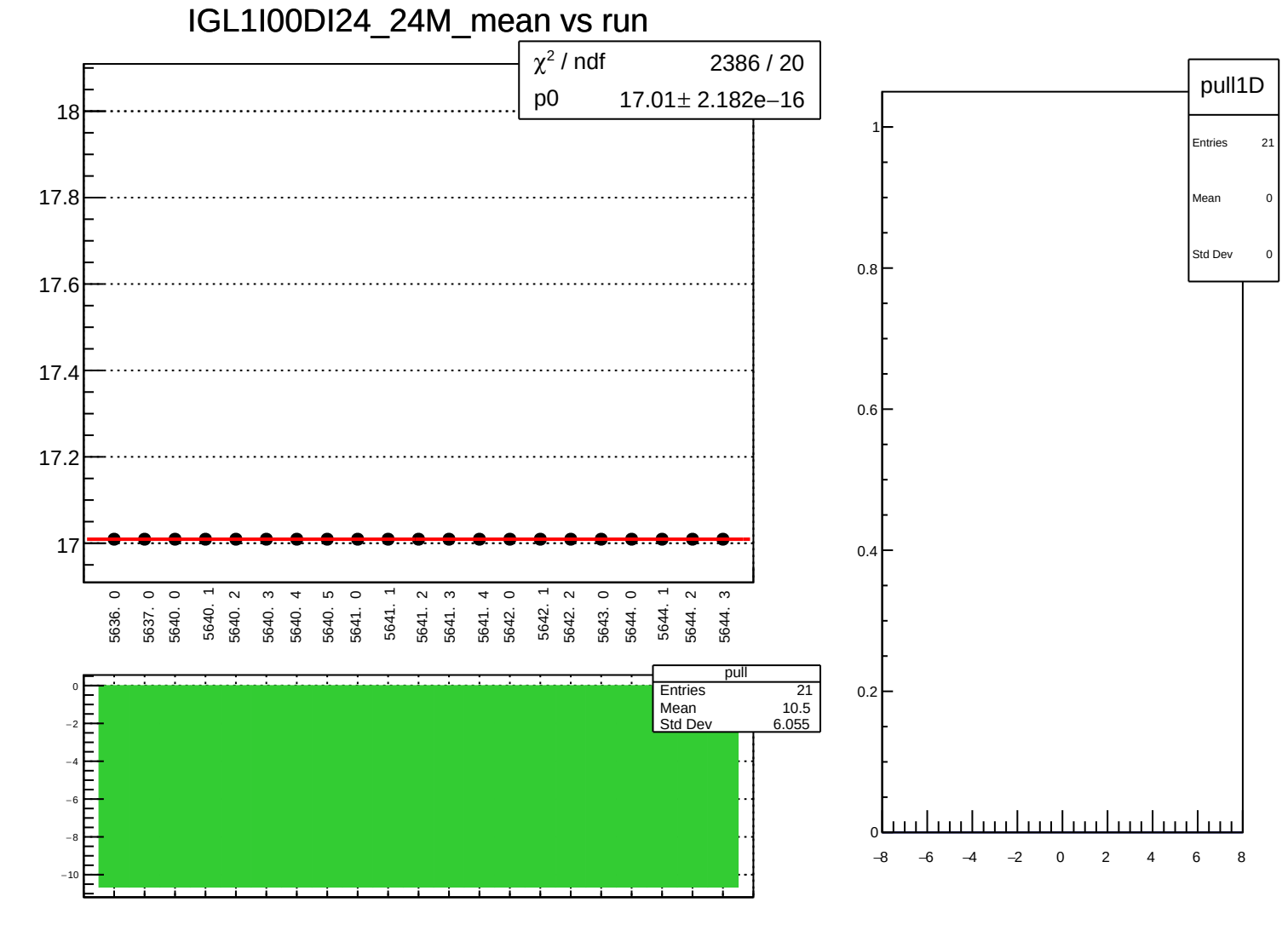

HWienAngle_mean vs run
χ² / ndf 1.484e+04 / 23
p0 −29.64 ± 2.041e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 12
Std Dev 6.922
25
20
15
10
5
0

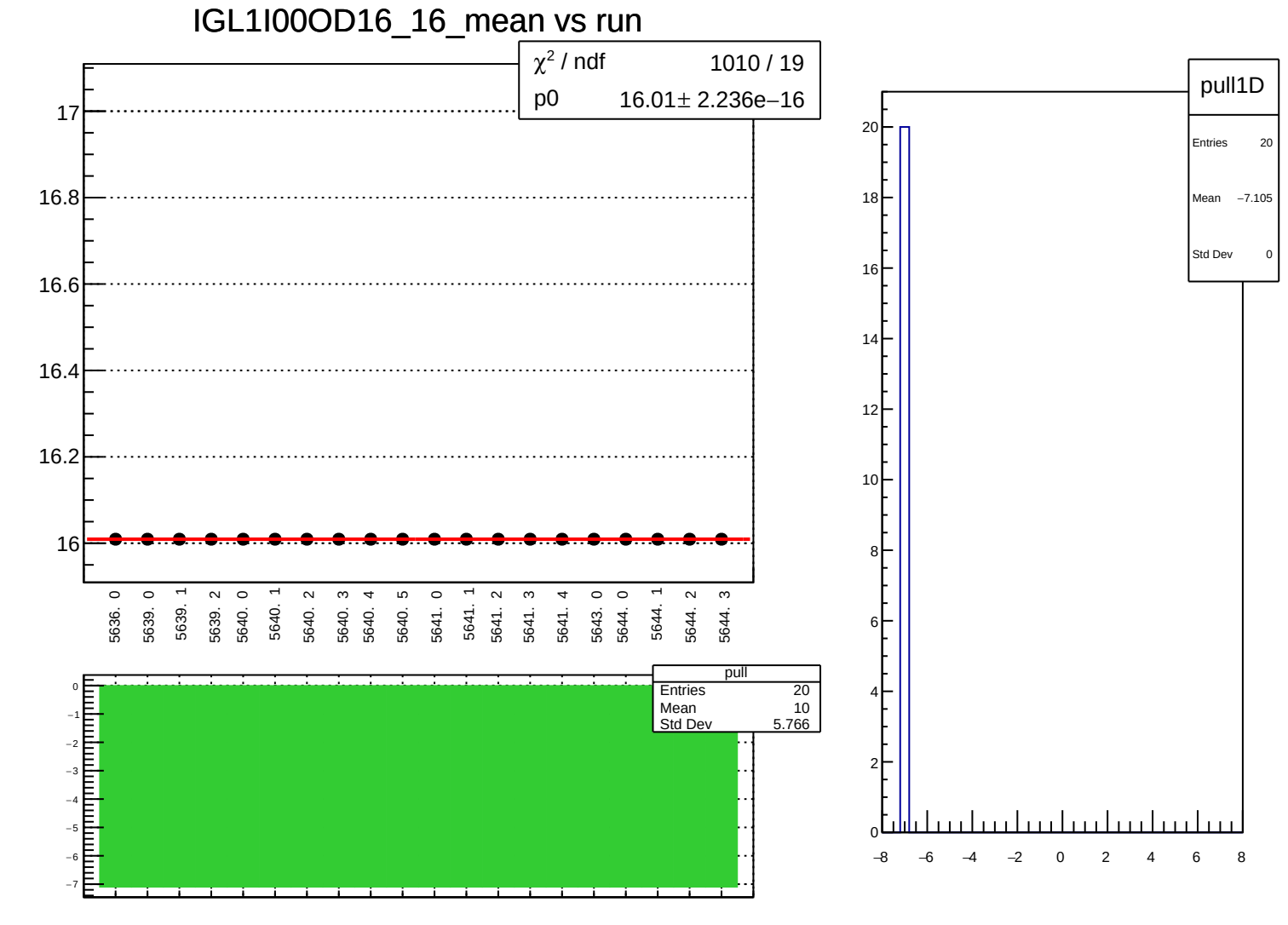

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

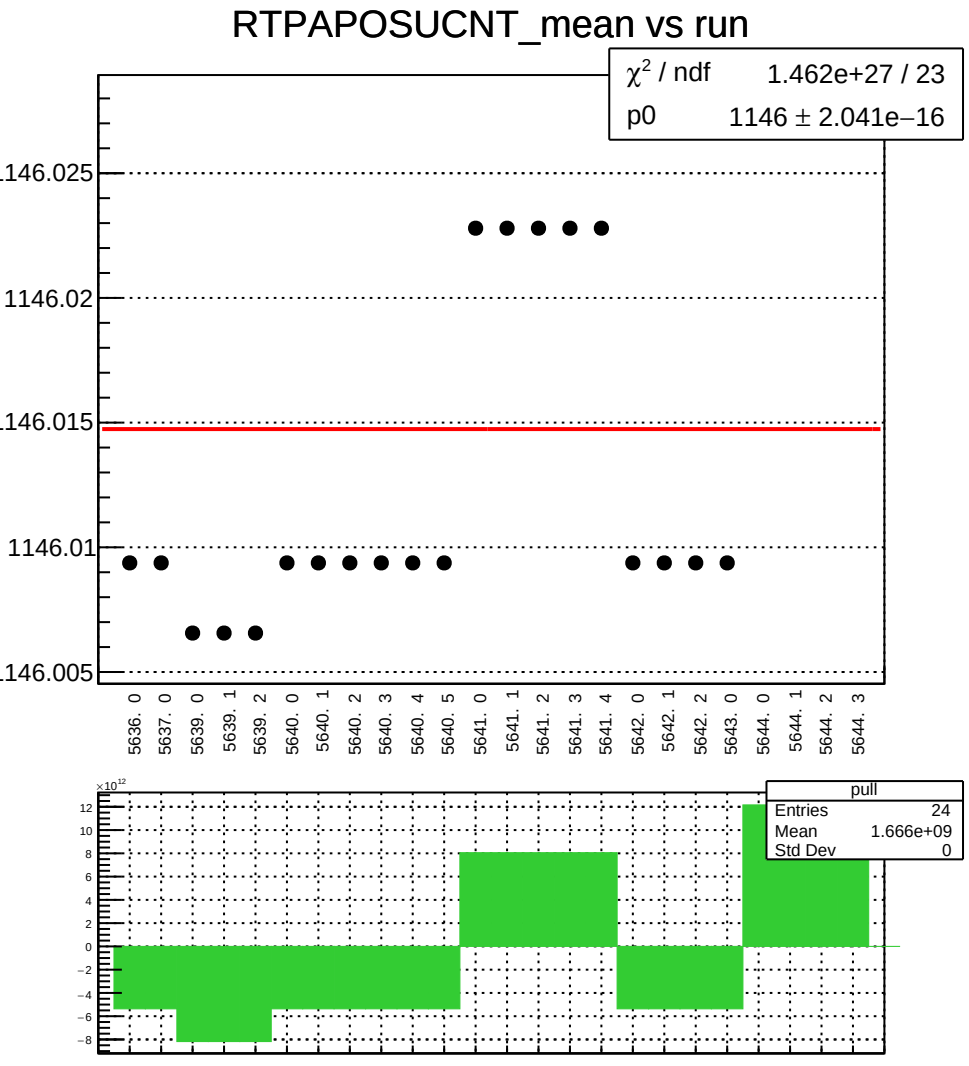

psub_pl_pos_mean vs run
χ² / ndf 6.08e+07 / 23
p0 1468 ± 2.041e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 12
Std Dev 6.922
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600

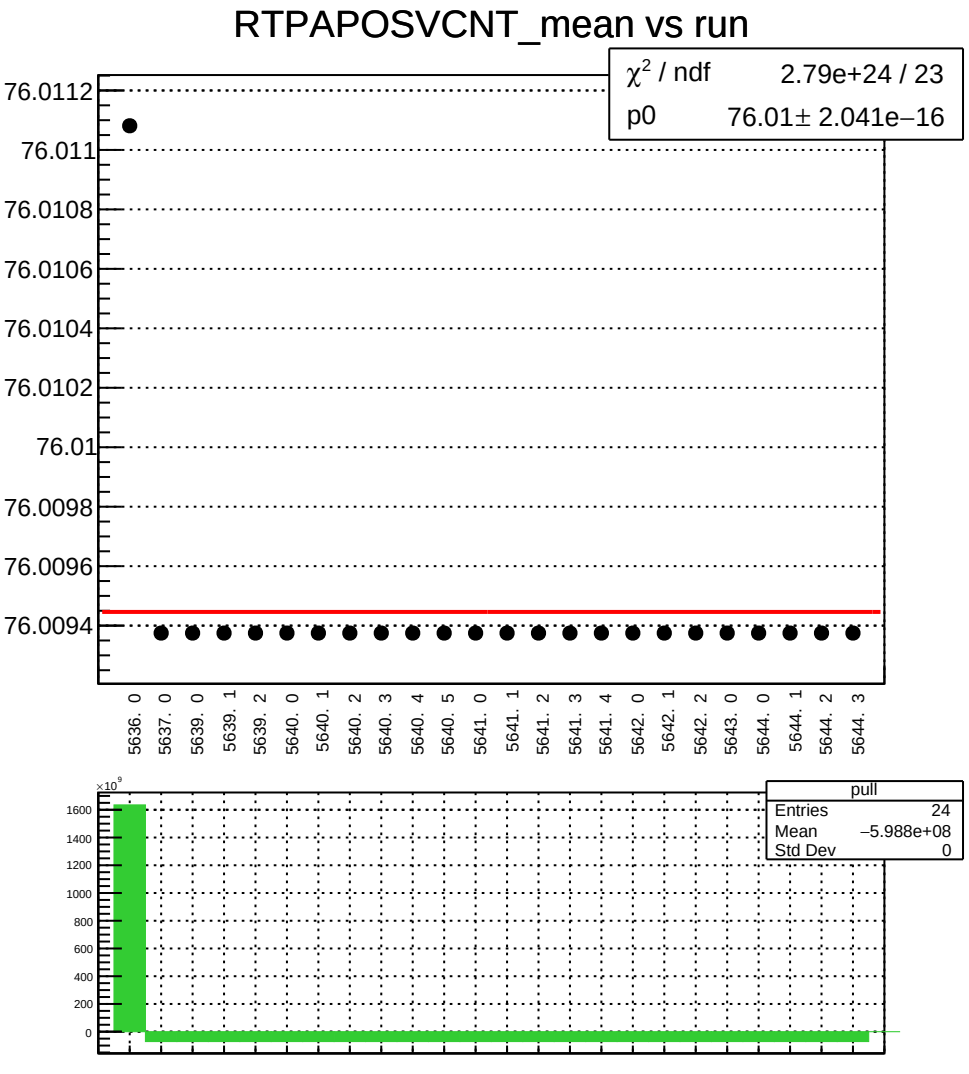

pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

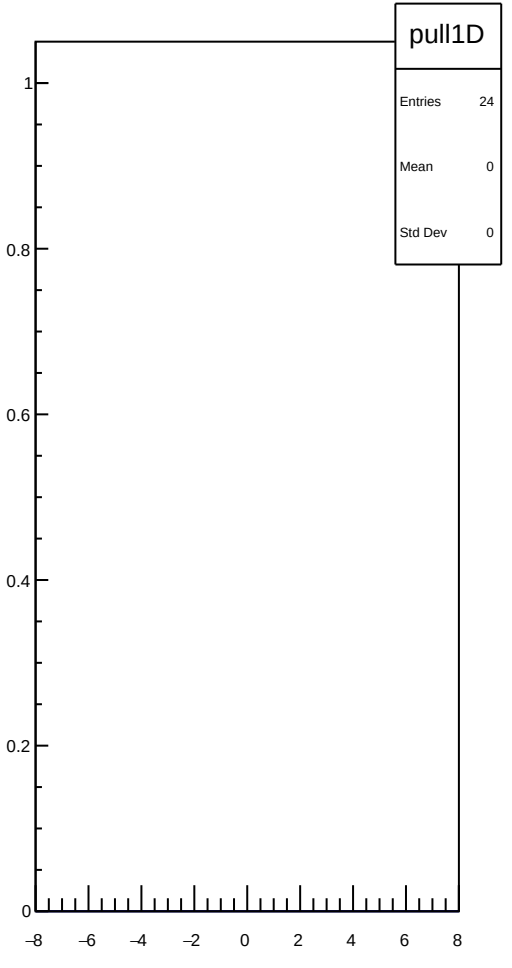

Phi_FG_mean vs run
χ² / ndf 1.212e+05 / 23
p0 89.96 ± 2.041e−16
91
90.8
90.6
90.4
90.2
90
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 12
Std Dev 6.922
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

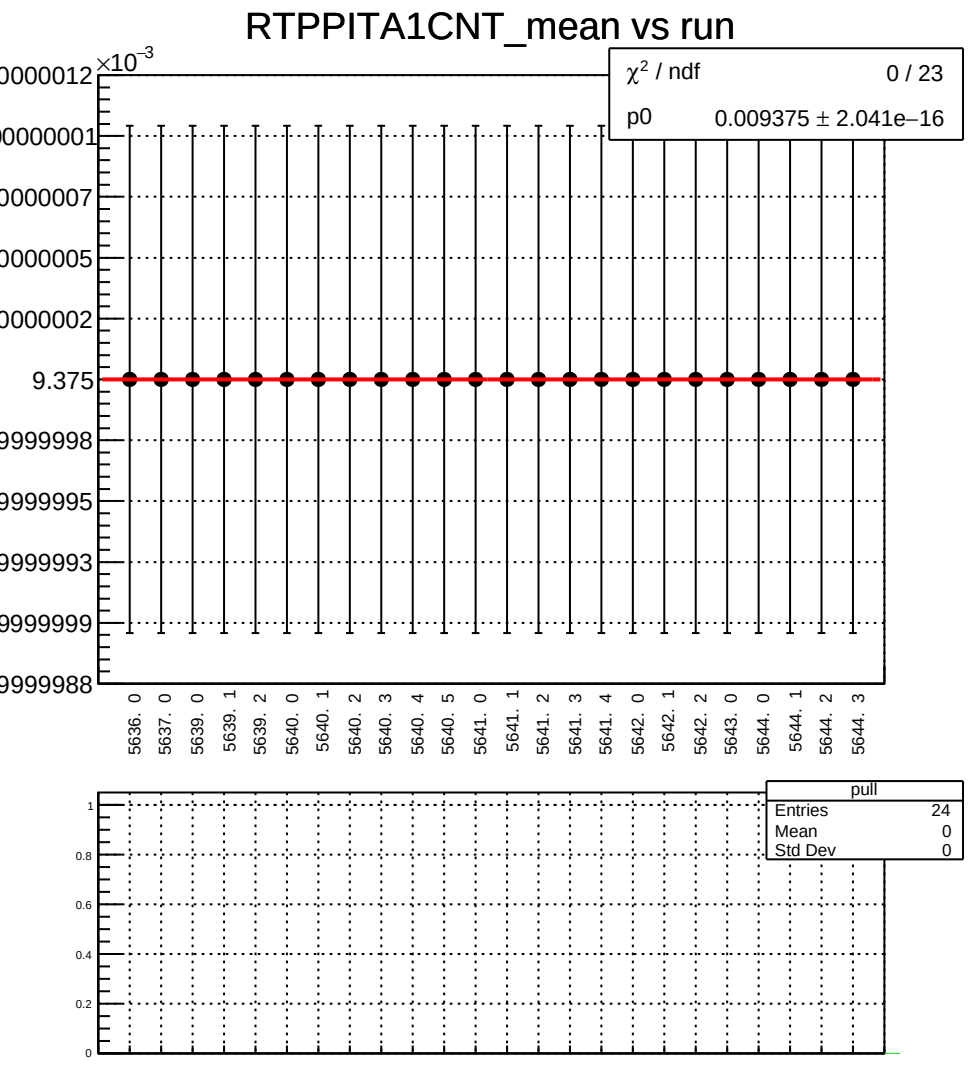

IGL1I00DI24_24M_mean vs run
χ² / ndf 2386 / 20
p0 17.01± 2.182e−16
18
17.8
17.6
17.4
17.2
17
5636. 0
5637. 0
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 21
Mean 10.5
Std Dev 6.055
0
−2
−4
−6
−8
−10
pull1D
Entries 21
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

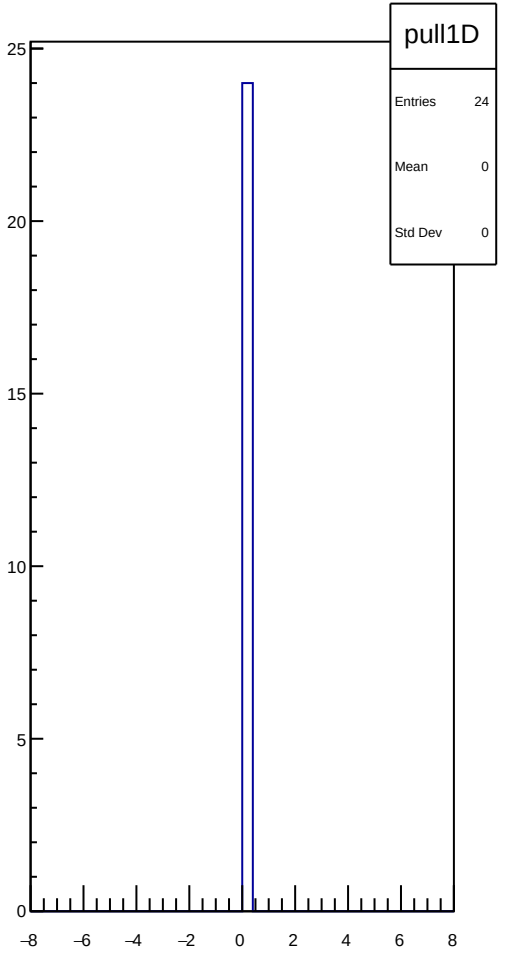

IGL1I00OD16_16_mean vs run
χ² / ndf 1010 / 19
p0 16.01± 2.236e−16
17
16.8
16.6
16.4
16.2
16
5636. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 20
Mean 10
Std Dev 5.766
pull1D
Entries 20
Mean −7.105
Std Dev 0

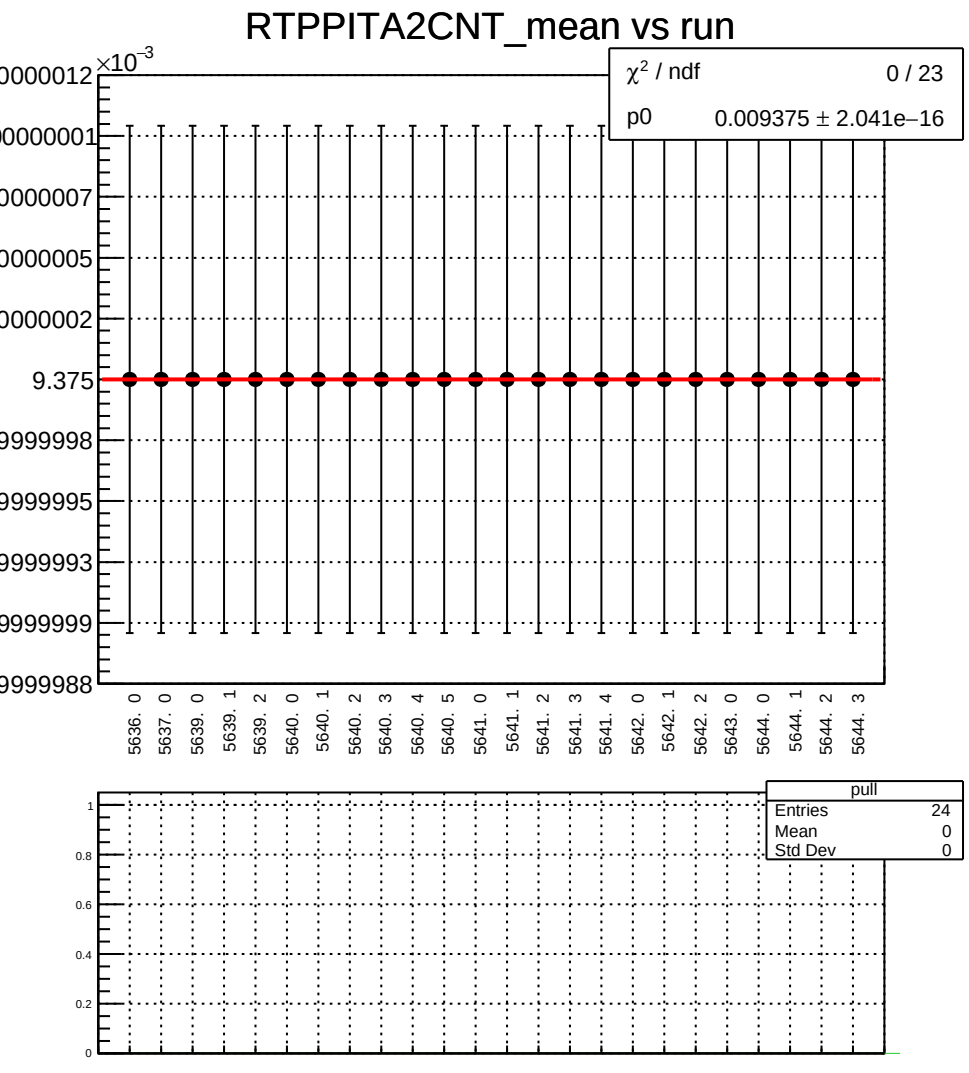

RTPAPOSUCNT_mean vs run
χ² / ndf 1.462e+27 / 23
p0 1146 ± 2.041e−16
1146.025
1146.02
1146.015
1146.01
1146.005
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
×10¹²
pull
Entries 24
Mean 1.666e+09
Std Dev 0
pull1D
Entries 24
Mean 0
Std Dev 0

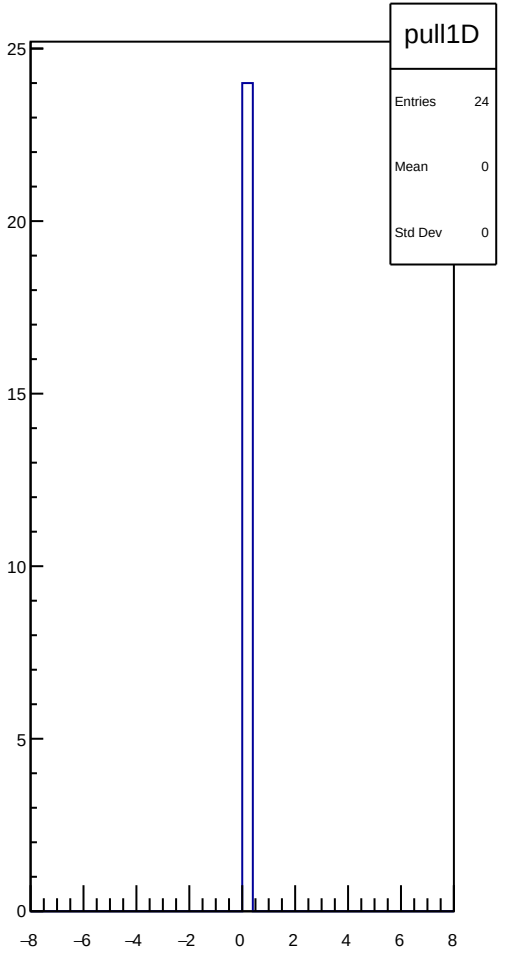

RTPAPOSVCNT_mean vs run
χ² / ndf 2.79e+24 / 23
p0 76.01± 2.041e−16
76.0112
76.011
76.0108
76.0106
76.0104
76.0102
76.01
76.0098
76.0096
76.0094
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
×10⁹
1600
1400
1200
1000
800
600
400
200
0
pull
Entries 24
Mean −5.988e+08
Std Dev 0


pull1D
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPPITA1CNT_mean vs run
×10⁻³
χ² / ndf 0 / 23
p0 0.009375 ± 2.041e−16
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 24
Mean 0
Std Dev 0
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


RTPPITA2CNT_mean vs run
×10⁻³
χ² / ndf 0 / 23
p0 0.009375 ± 2.041e−16
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
5636. 0
5637. 0
5639. 0
5639. 1
5639. 2
5640. 0
5640. 1
5640. 2
5640. 3
5640. 4
5640. 5
5641. 0
5641. 1
5641. 2
5641. 3
5641. 4
5642. 0
5642. 1
5642. 2
5643. 0
5644. 0
5644. 1
5644. 2
5644. 3
pull
Entries 24
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0


pull1D
Entries 24
Mean 0
Std Dev 0
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8