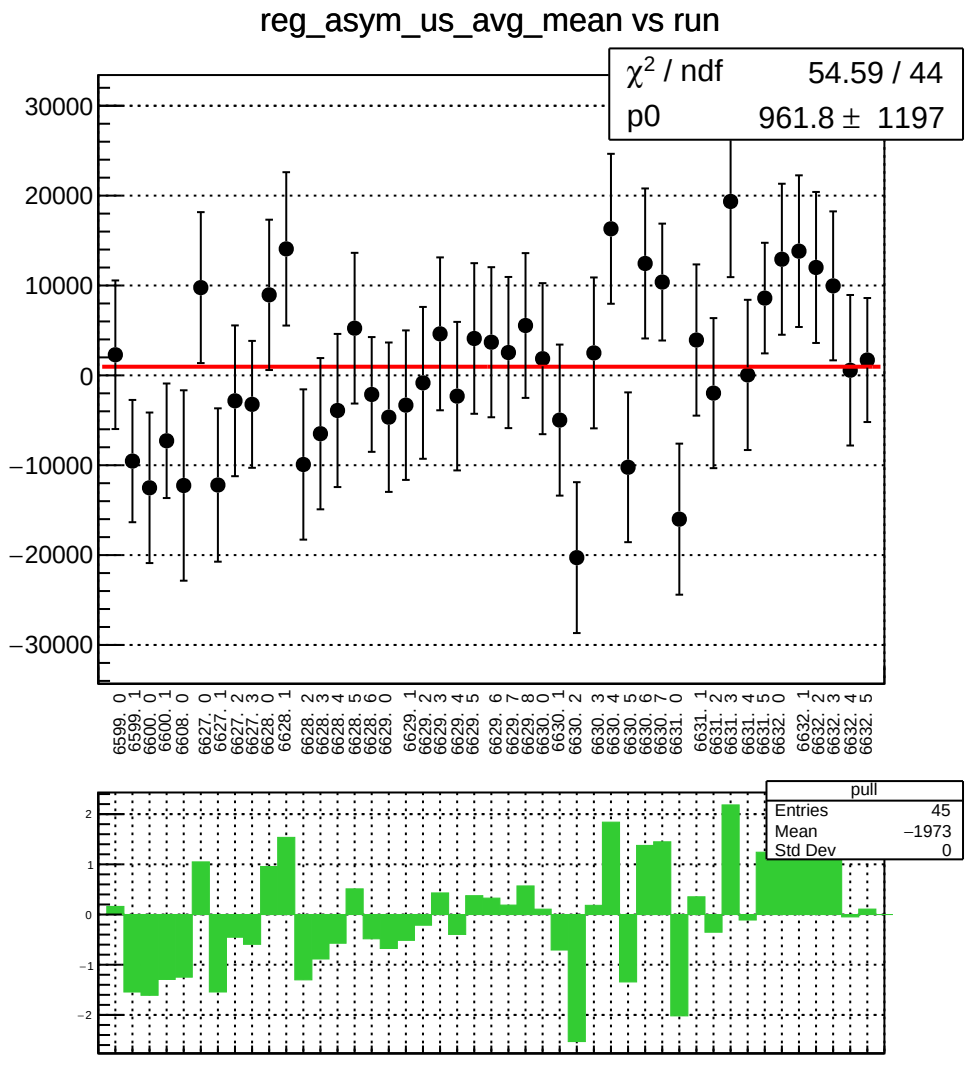
reg_asym_us_avg_mean vs run
χ² / ndf 54.59 / 44
p0 961.8 ± 1197
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
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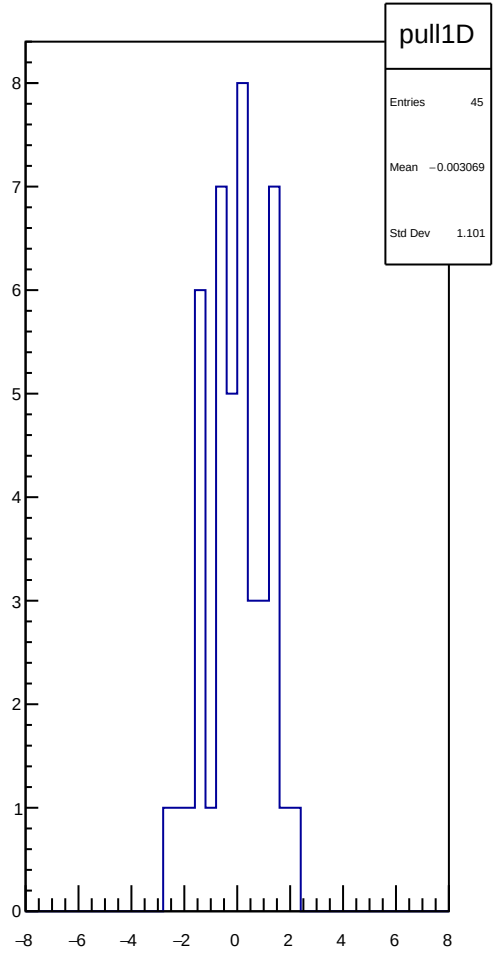
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −1973
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.003069
Std Dev 1.101
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7
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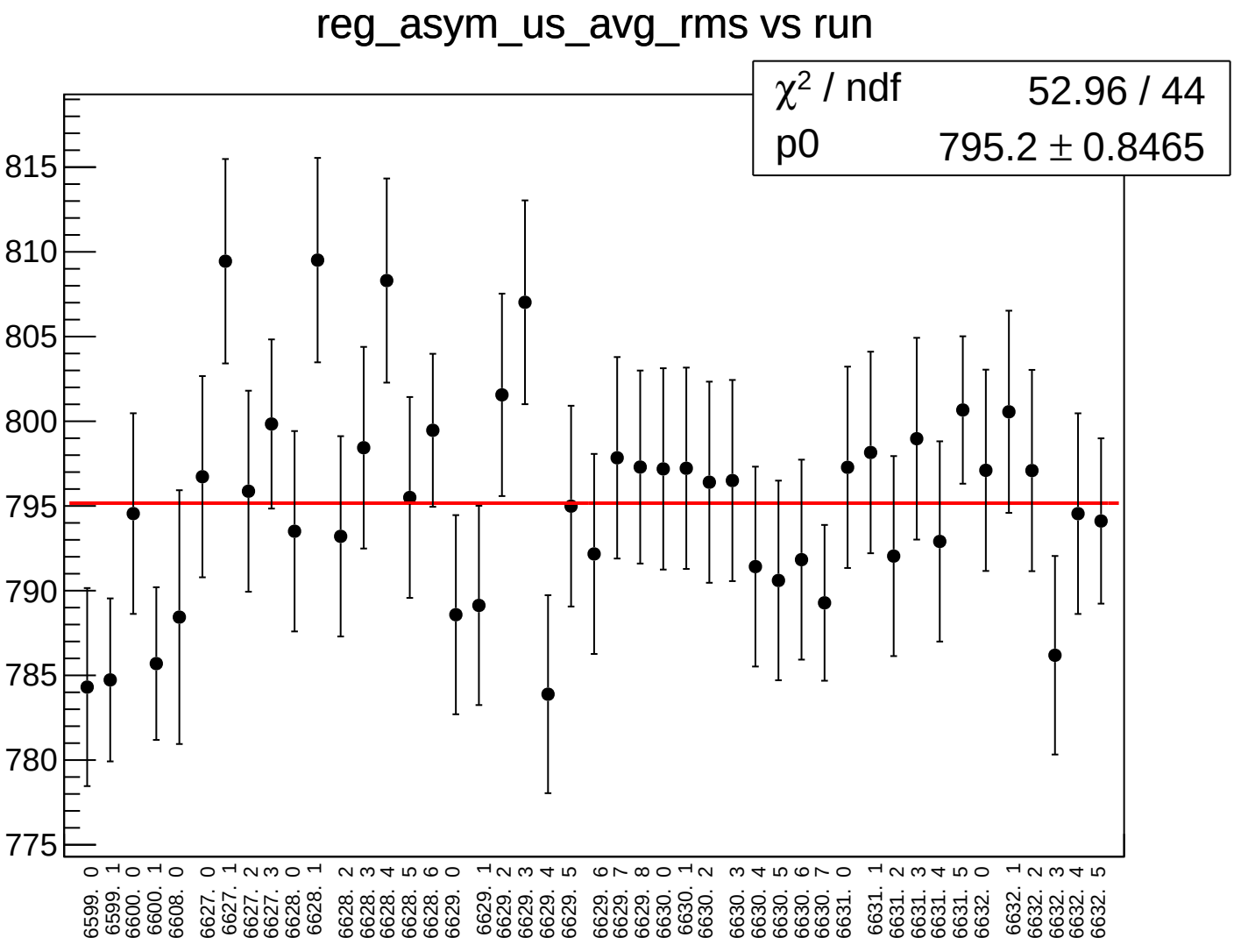
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_avg_rms vs run
χ² / ndf 52.96 / 44
p0 795.2 ± 0.8465
815
810
805
800
795
790
785
780
775
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 2
6627. 3
6628. 0
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6628. 3
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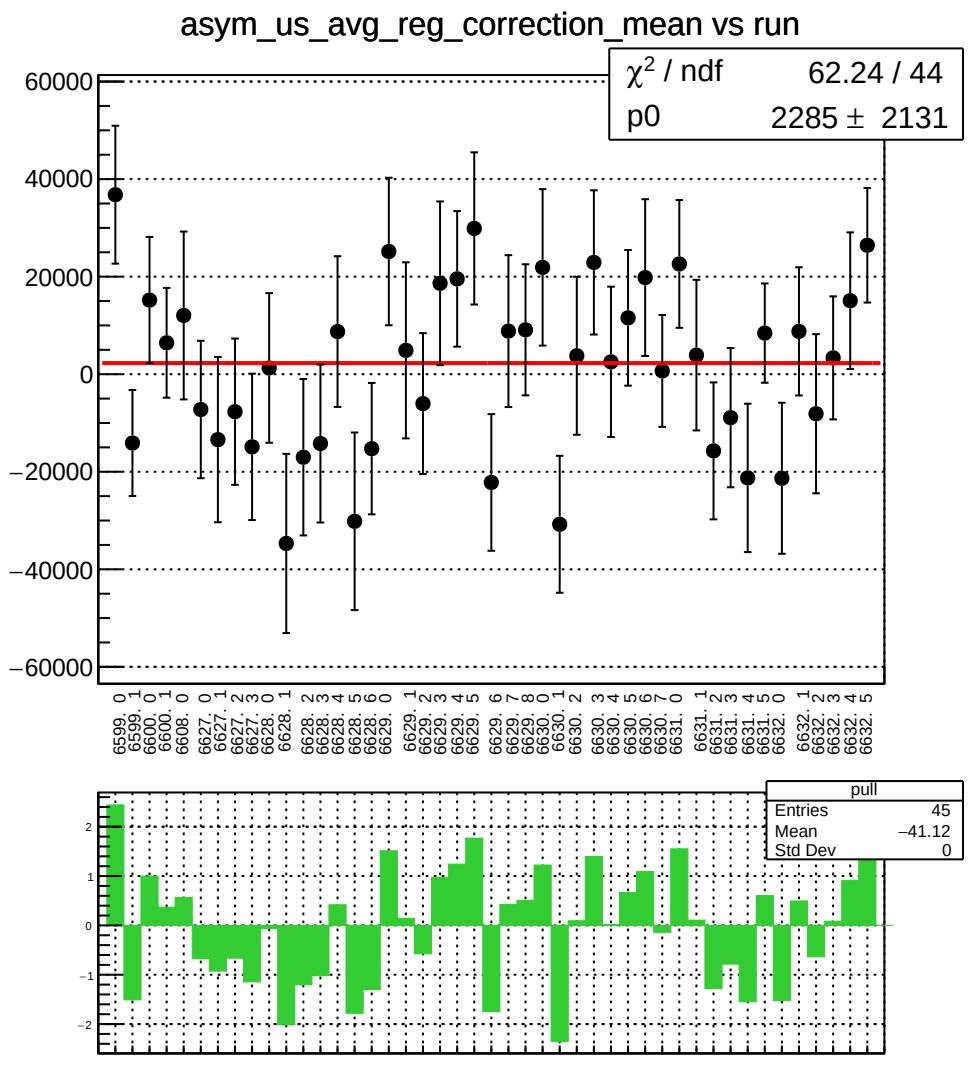
asym_us_avg_reg_correction_mean vs run
χ² / ndf 62.24 / 44
p0 2285 ± 2131
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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6628. 0
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6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
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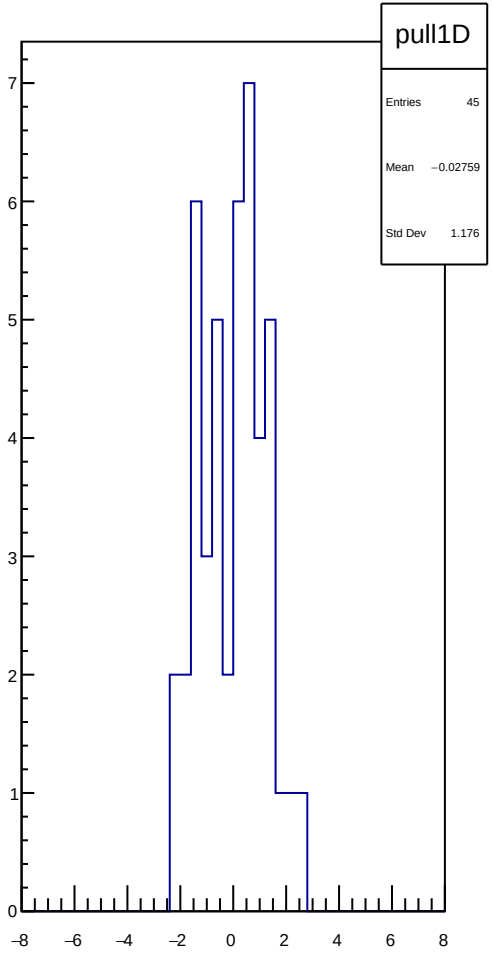
6632. 4
6632. 5
pull
Entries 45
Mean −41.12
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.02759
Std Dev 1.176
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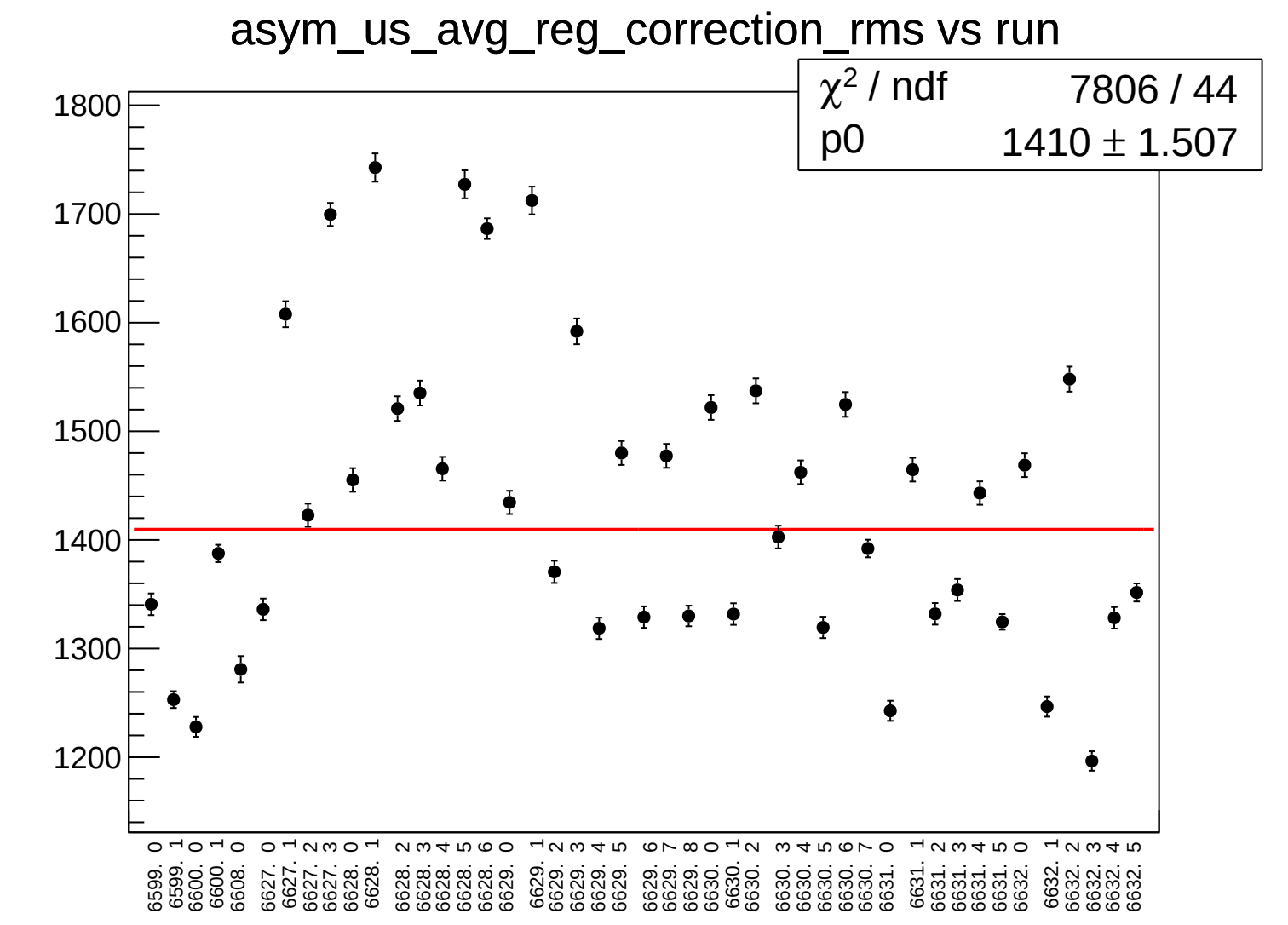
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_reg_correction_rms vs run
χ² / ndf 7806 / 44
p0 1410 ± 1.507
1800
1700
1600
1500
1400
1300
1200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6629. 5
6629. 6
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6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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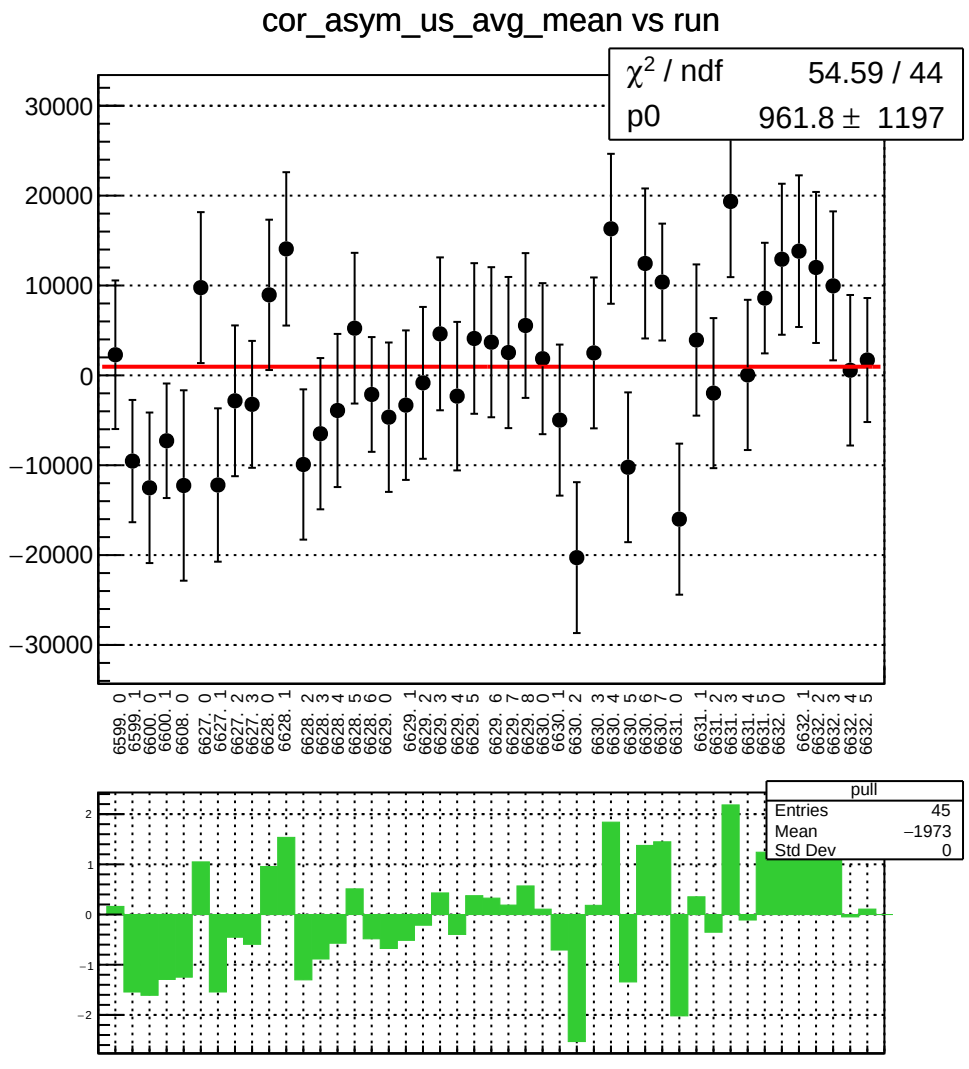
cor_asym_us_avg_mean vs run
χ² / ndf 54.59 / 44
p0 961.8 ± 1197
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
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6630. 2
6630. 3
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6630. 6
6630. 7
6631. 0
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
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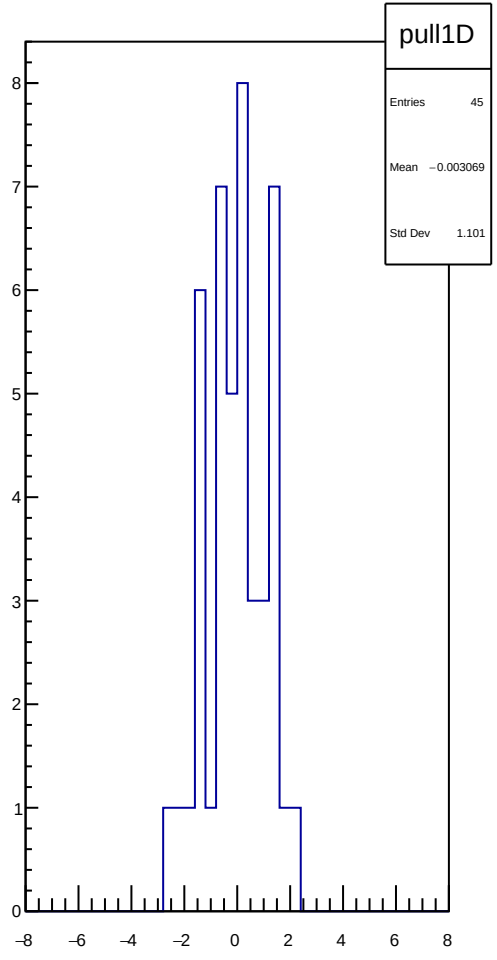
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −1973
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.003069
Std Dev 1.101
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5
4
3
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1
0
−8
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−4
−2
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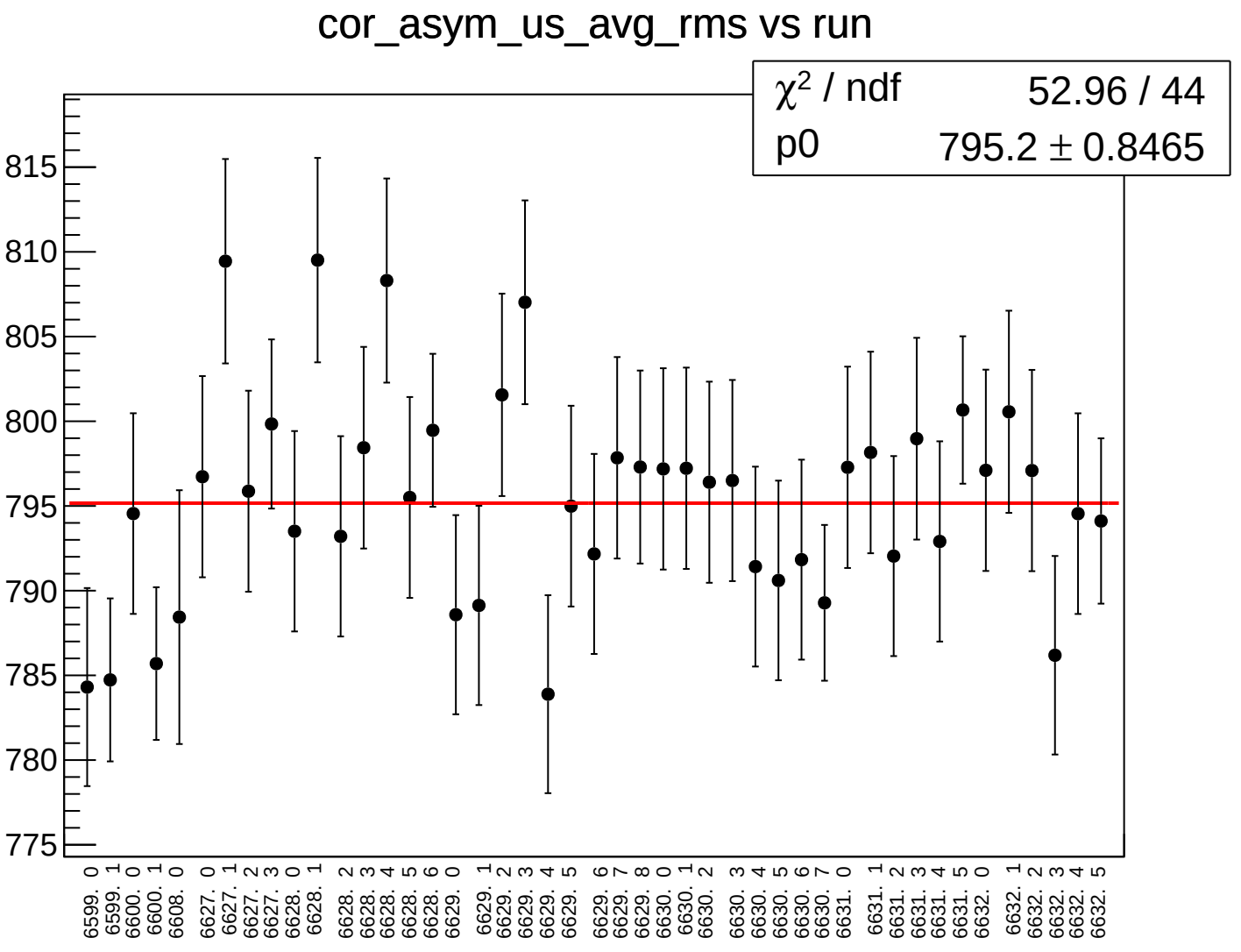
cor_asym_us_avg_rms vs run
χ² / ndf 52.96 / 44
p0 795.2 ± 0.8465
815
810
805
800
795
790
785
780
775
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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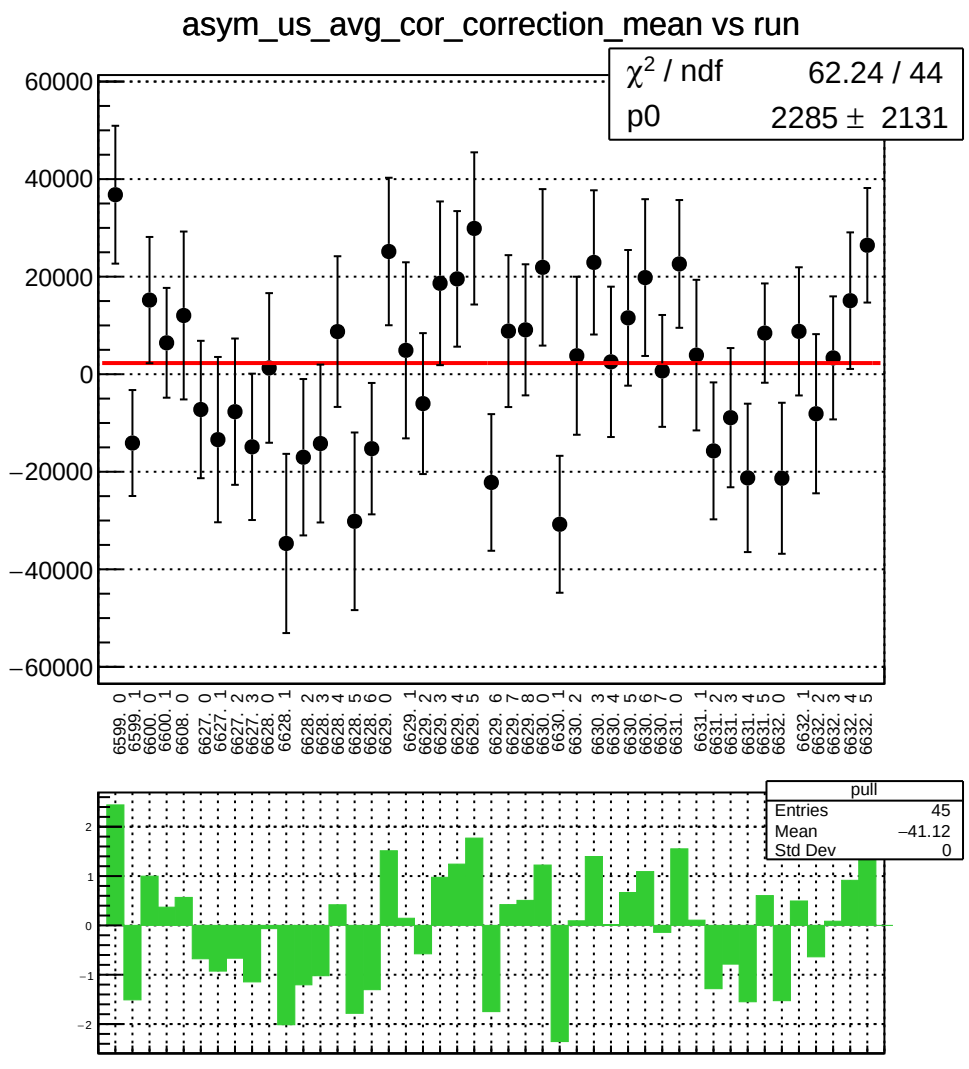
asym_us_avg_cor_correction_mean vs run
χ² / ndf 62.24 / 44
p0 2285 ± 2131
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6629. 0
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6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
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6630. 2
6630. 3
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pull
Entries 45
Mean −41.12
Std Dev 0
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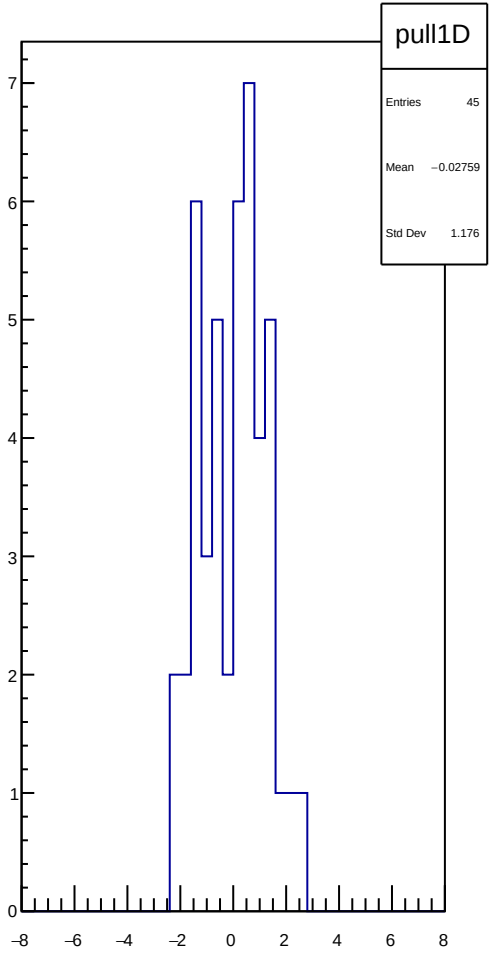
1
0
−1
−2


pull1D
Entries 45
Mean −0.02759
Std Dev 1.176
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−8
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−4
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2
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6
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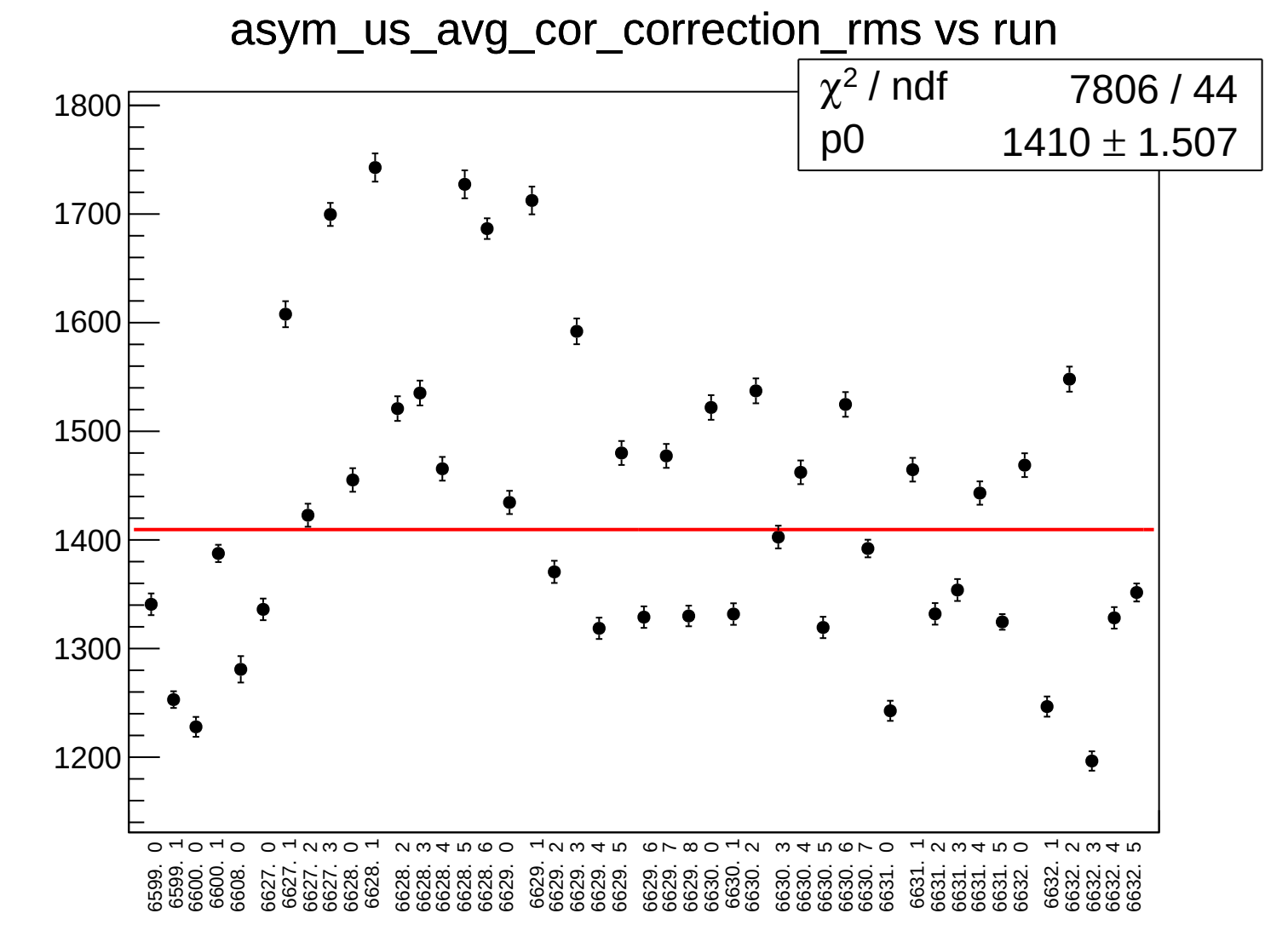
asym_us_avg_cor_correction_rms vs run
χ² / ndf 7806 / 44
p0 1410 ± 1.507
1800
1700
1600
1500
1400
1300
1200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 5
6630. 6
6630. 7
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6631. 1
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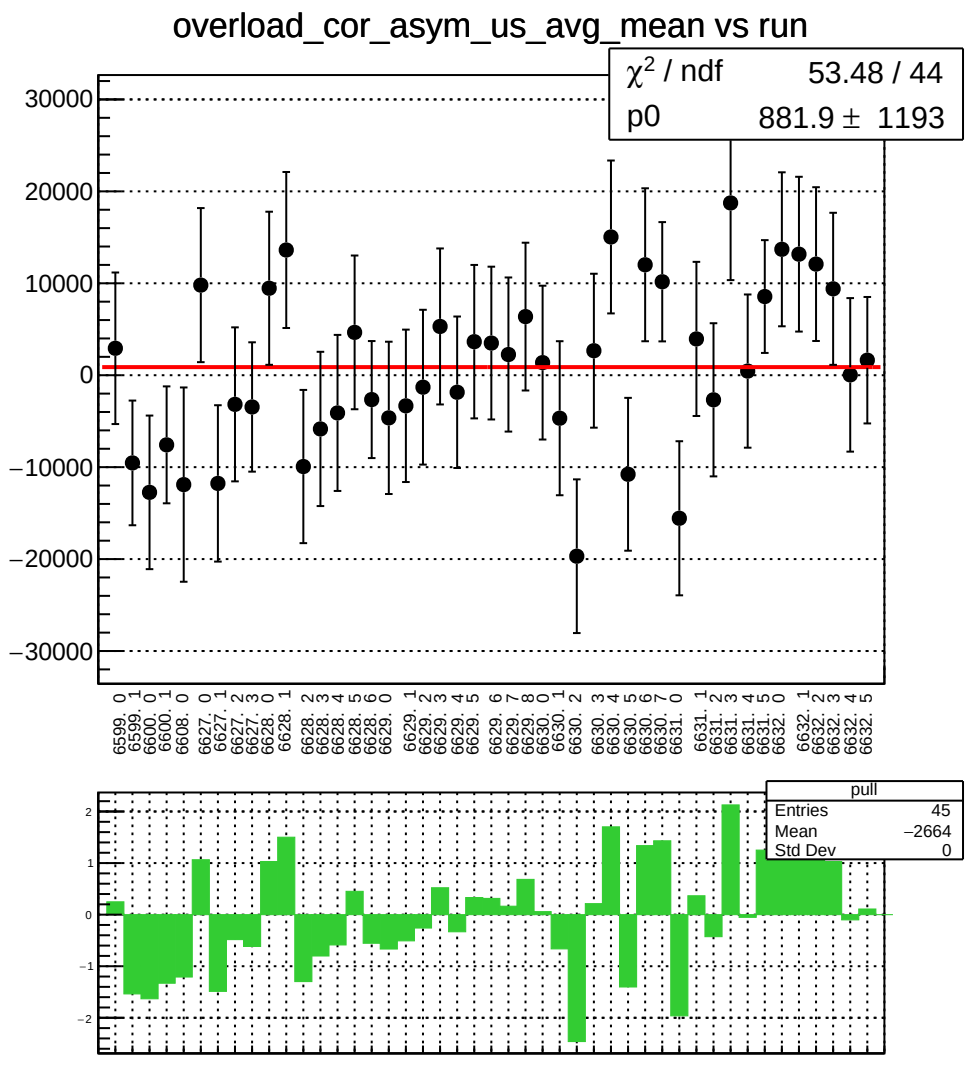
overload_cor_asym_us_avg_mean vs run
χ² / ndf 53.48 / 44
p0 881.9 ± 1193
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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6627. 3
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6629. 7
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6630. 1
6630. 2
6630. 3
6630. 4
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6630. 6
6630. 7
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6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −2664
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.00224
Std Dev 1.09
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7
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5
4
3
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1
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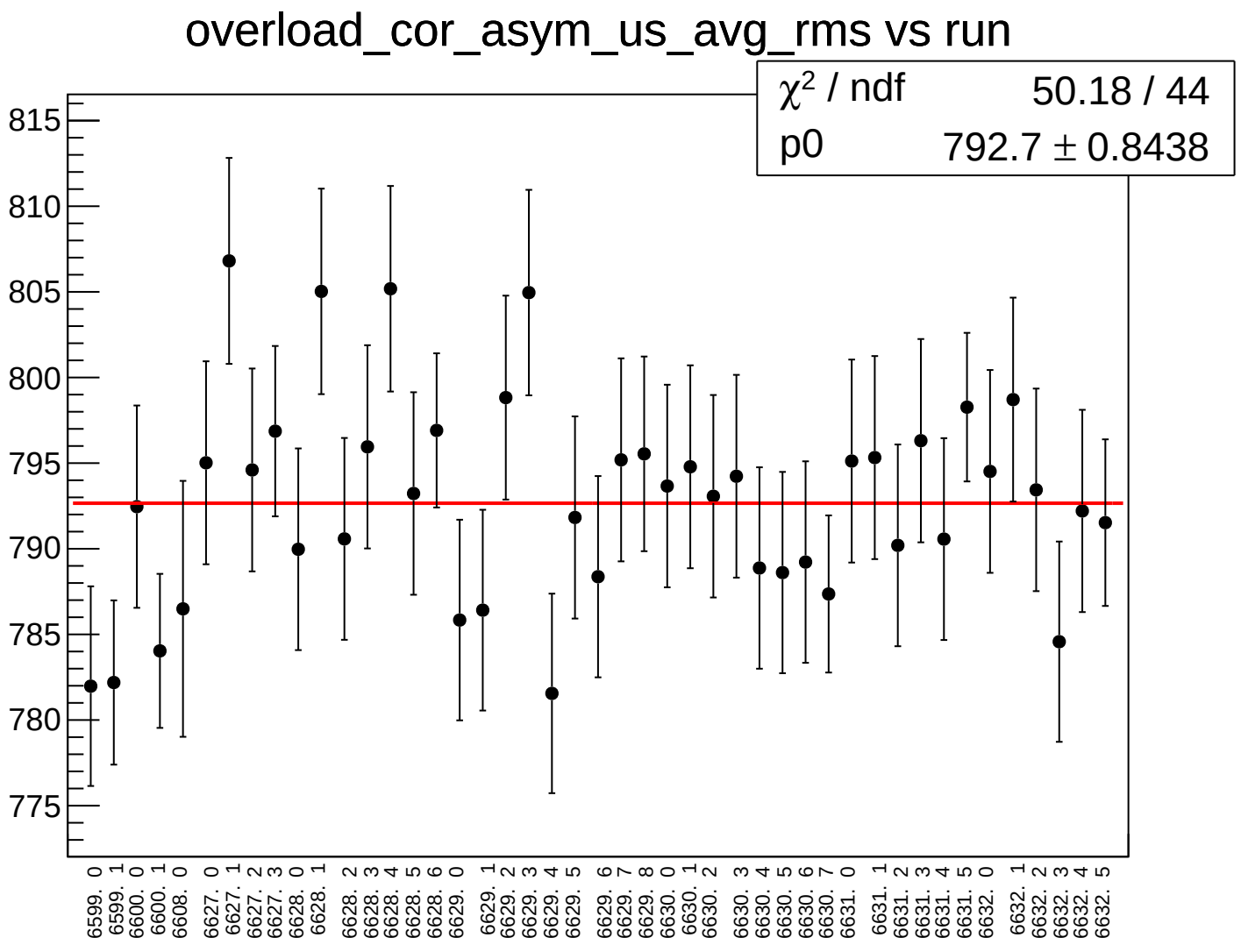
−6
−4
−2
0
2
4
6
8


overload_cor_asym_us_avg_rms vs run
χ² / ndf 50.18 / 44
p0 792.7 ± 0.8438
815
810
805
800
795
790
785
780
775
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6629. 0
6629. 1
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6629. 5
6629. 6
6629. 7
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6630. 1
6630. 2
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6630. 6
6630. 7
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6631. 1
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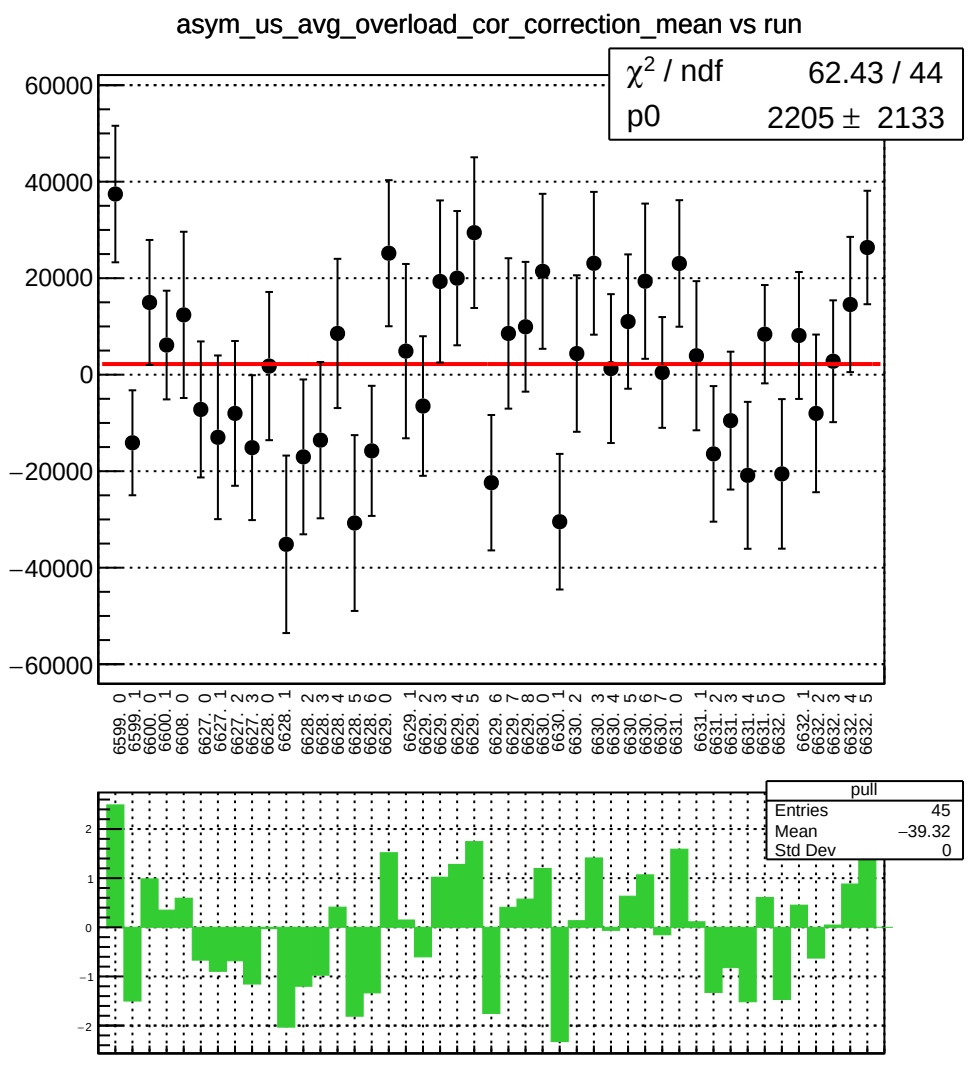
asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 62.43 / 44
p0 2205 ± 2133
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 2
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6631. 2
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6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −39.32
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.0271
Std Dev 1.178
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4
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1
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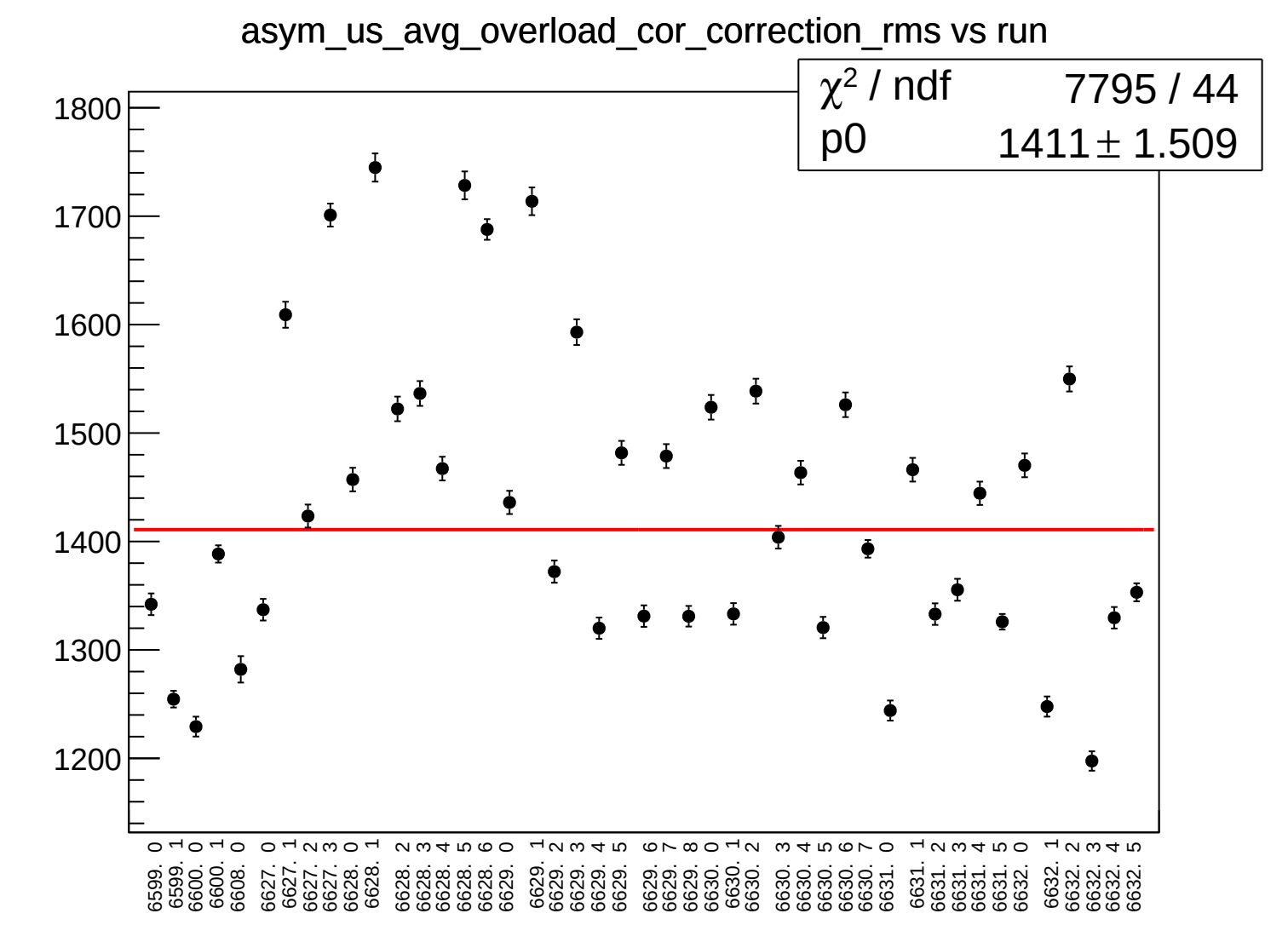
−6
−4
−2
0
2
4
6
8


asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 7795 / 44
p0 1411 ± 1.509
1800
1700
1600
1500
1400
1300
1200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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6629. 6
6629. 7
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6630. 0
6630. 1
6630. 2
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6630. 6
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6631. 1
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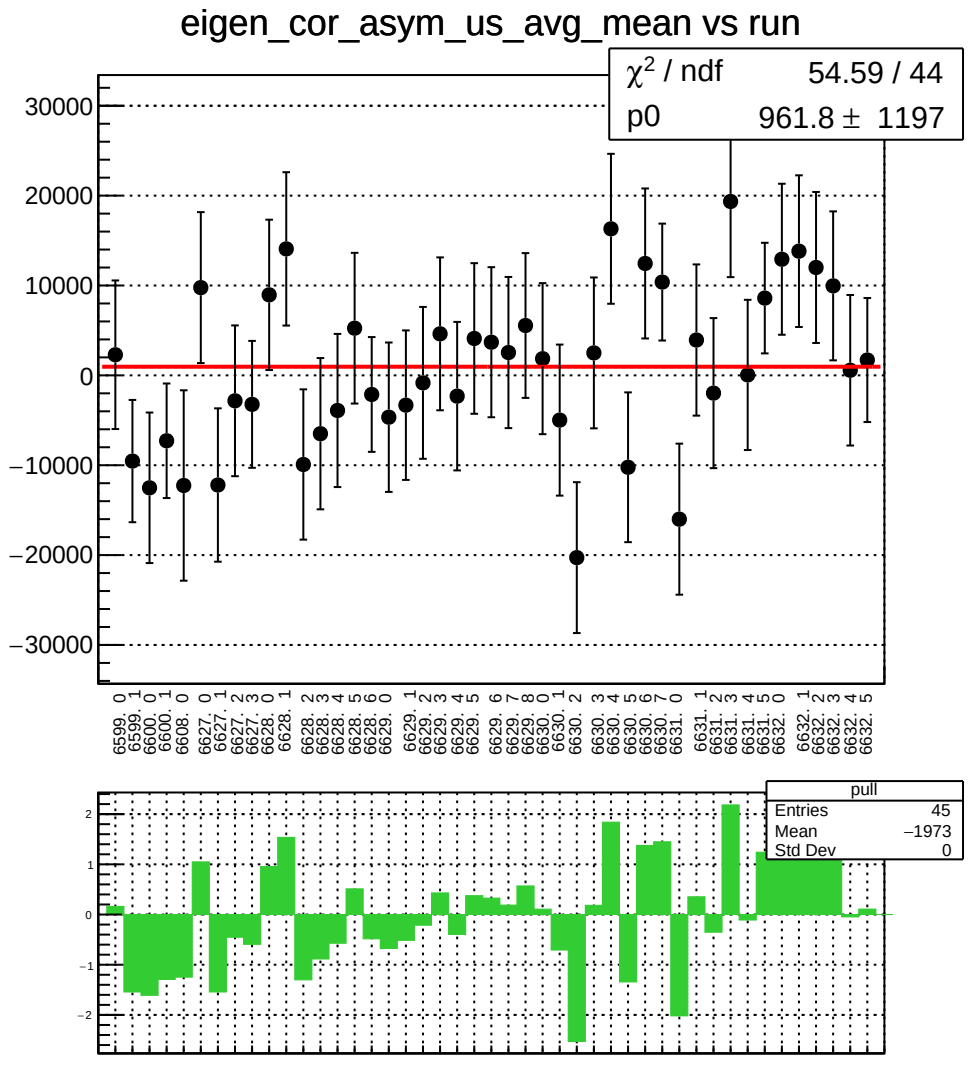
6632. 5


eigen_cor_asym_us_avg_mean vs run
χ² / ndf 54.59 / 44
p0 961.8 ± 1197
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
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6630. 2
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6632. 2
6632. 3
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6632. 5
pull
Entries 45
Mean −1973
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.003069
Std Dev 1.101
8
7
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5
4
3
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1
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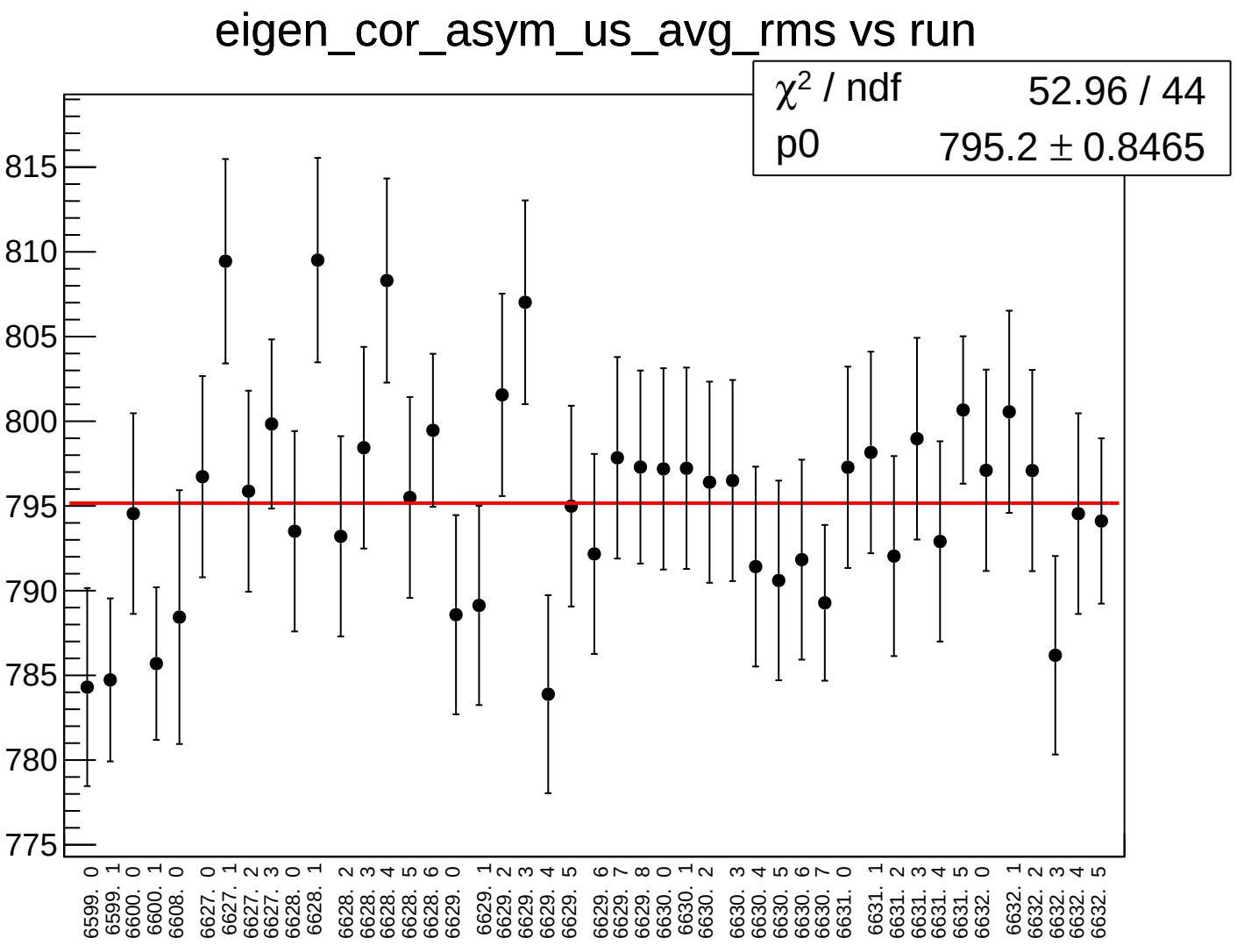
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_avg_rms vs run
χ² / ndf 52.96 / 44
p0 795.2 ± 0.8465
815
810
805
800
795
790
785
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775
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 2
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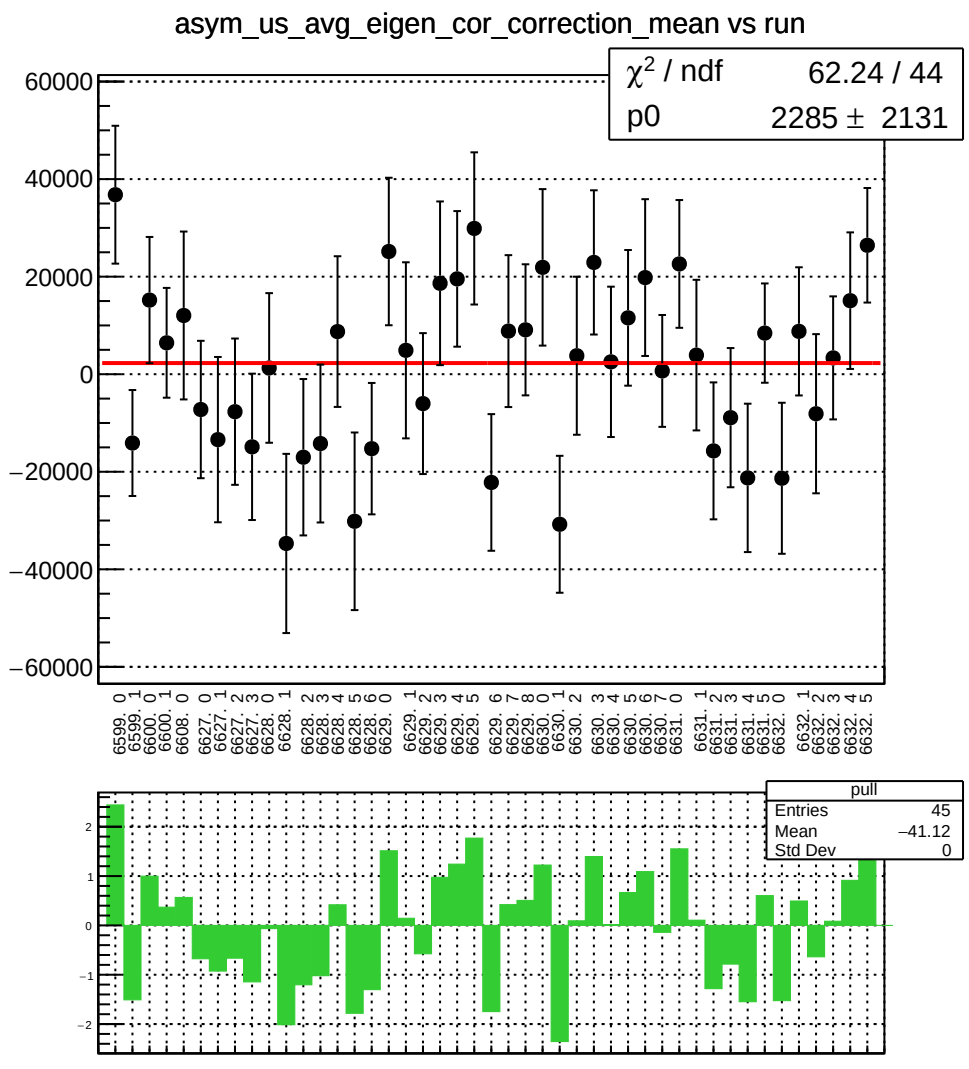
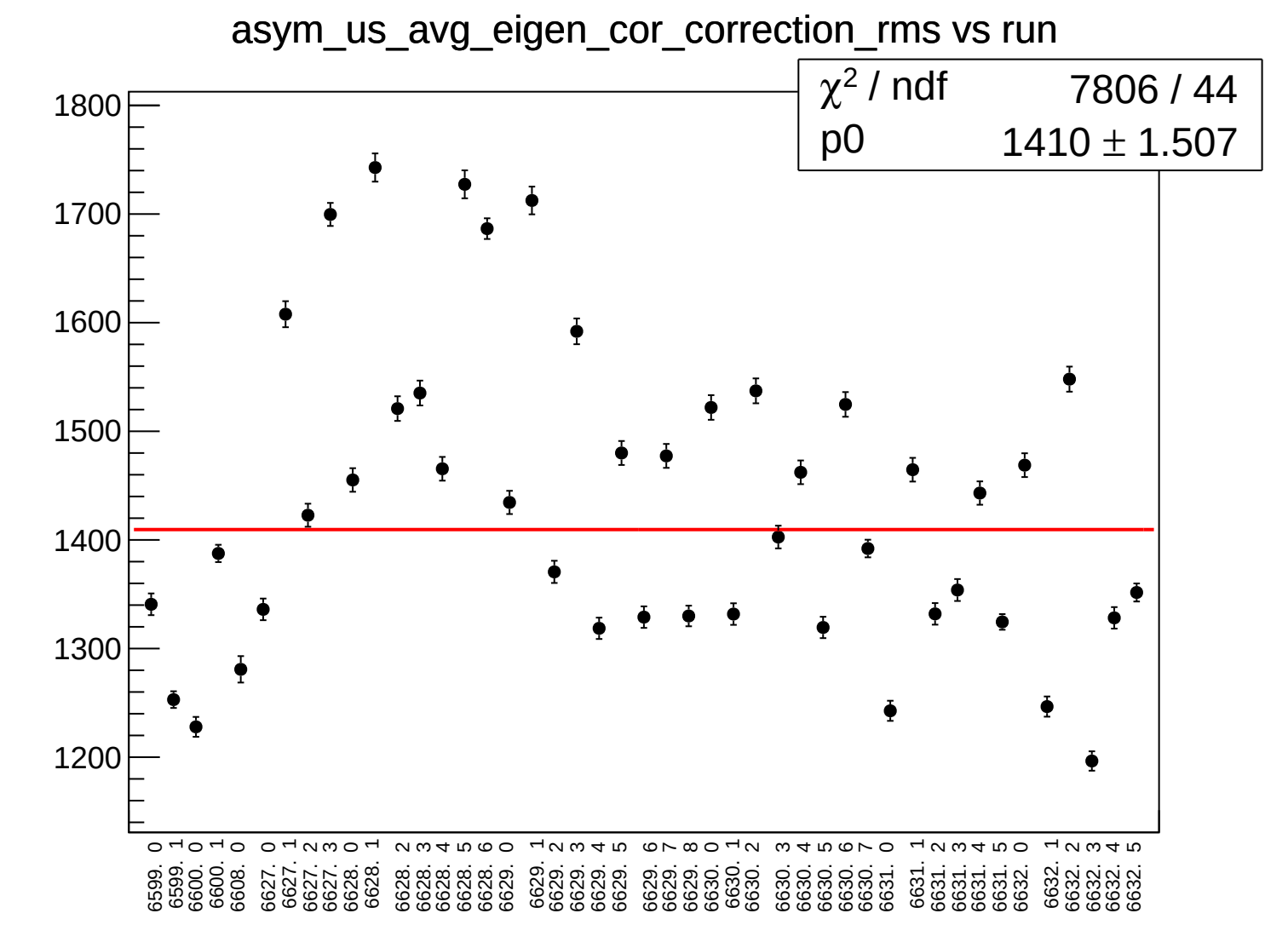
6632. 5


asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 62.24 / 44
p0 2285 ± 2131
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −41.12
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02759
Std Dev 1.176
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 7806 / 44
p0 1410 ± 1.507
1800
1700
1600
1500
1400
1300
1200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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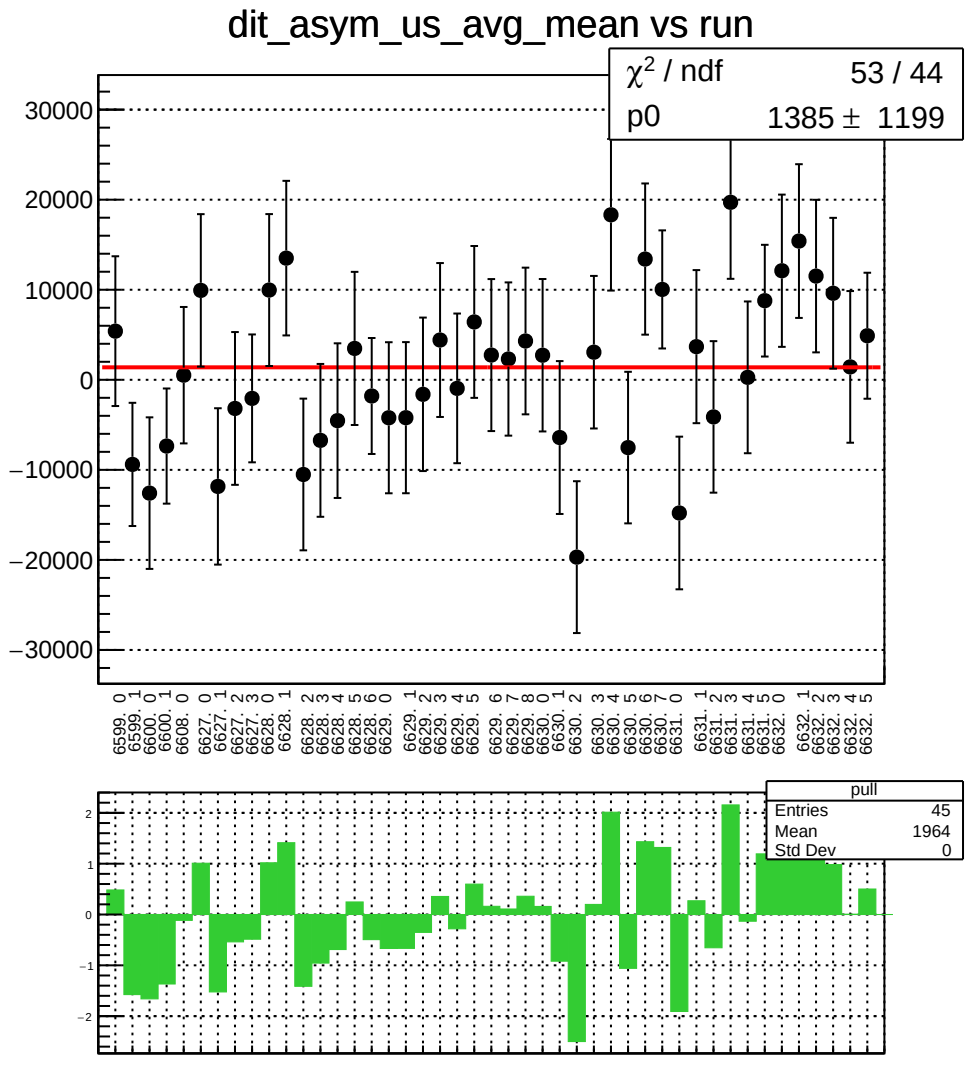
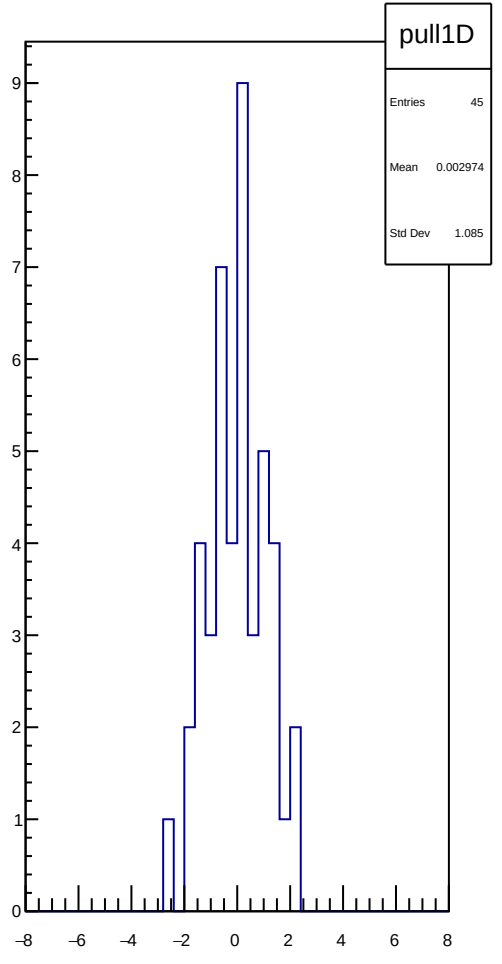
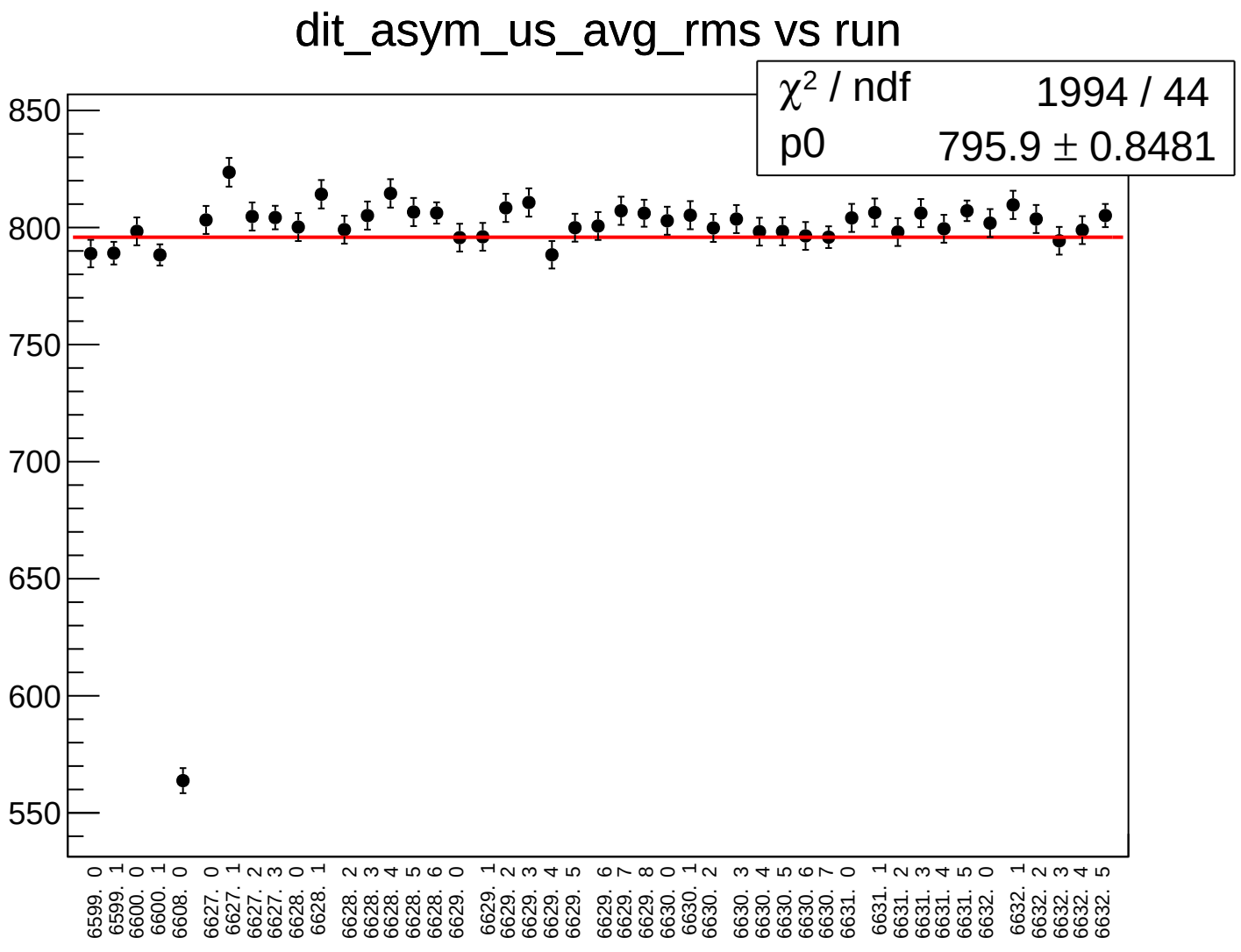
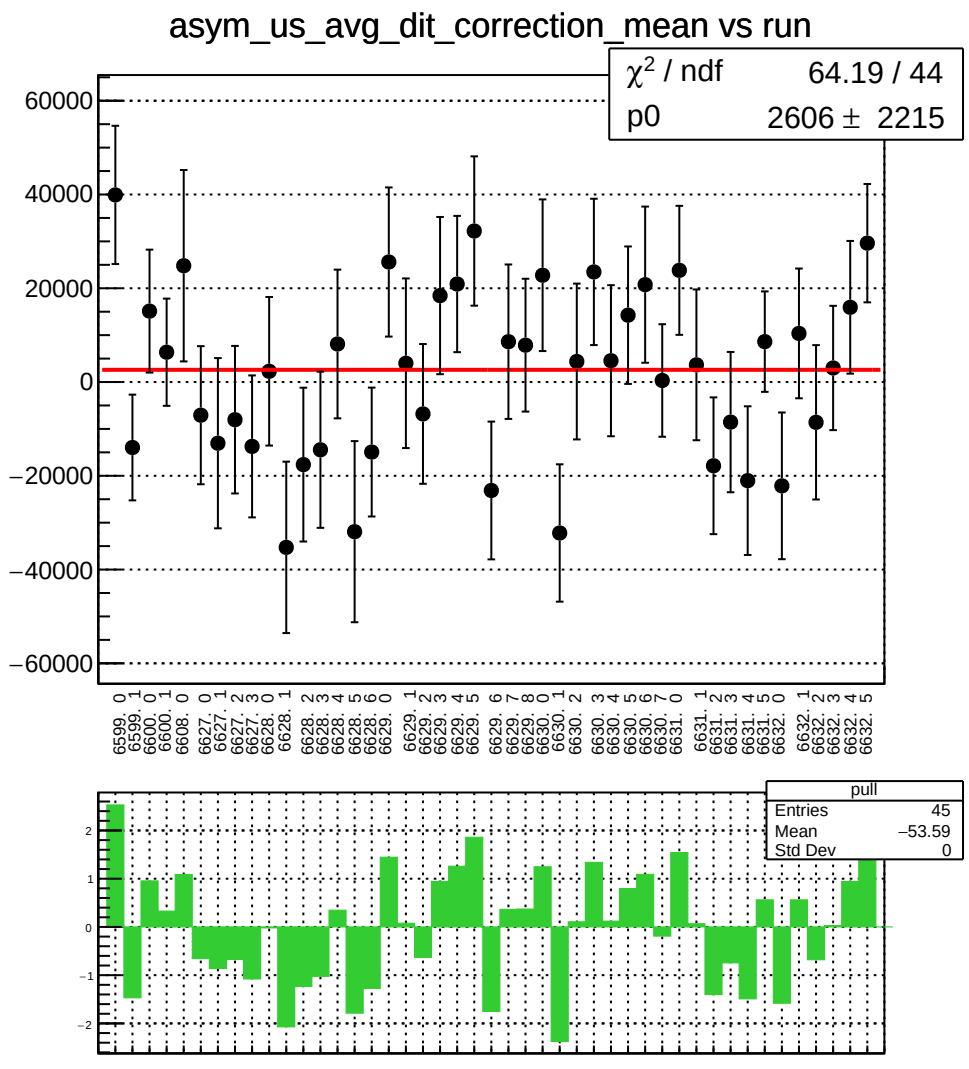
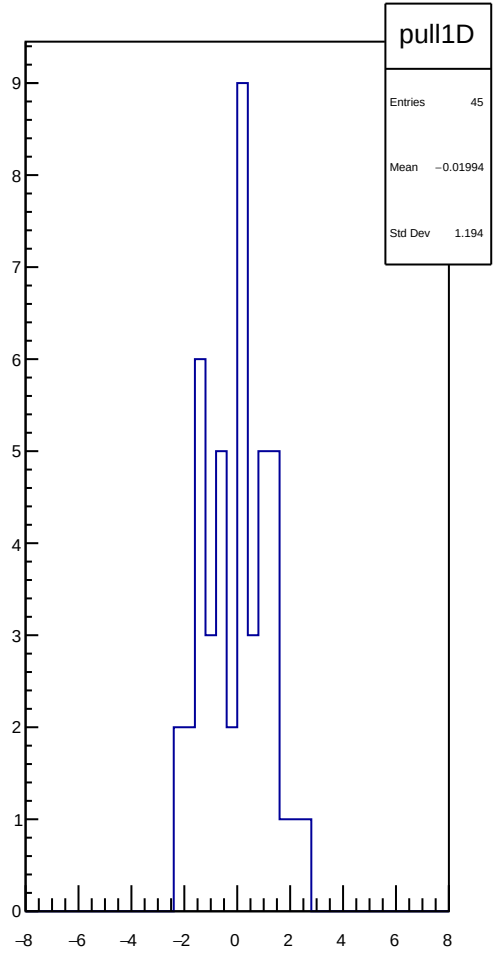
6632. 2
6632. 3
6632. 4
6632. 5

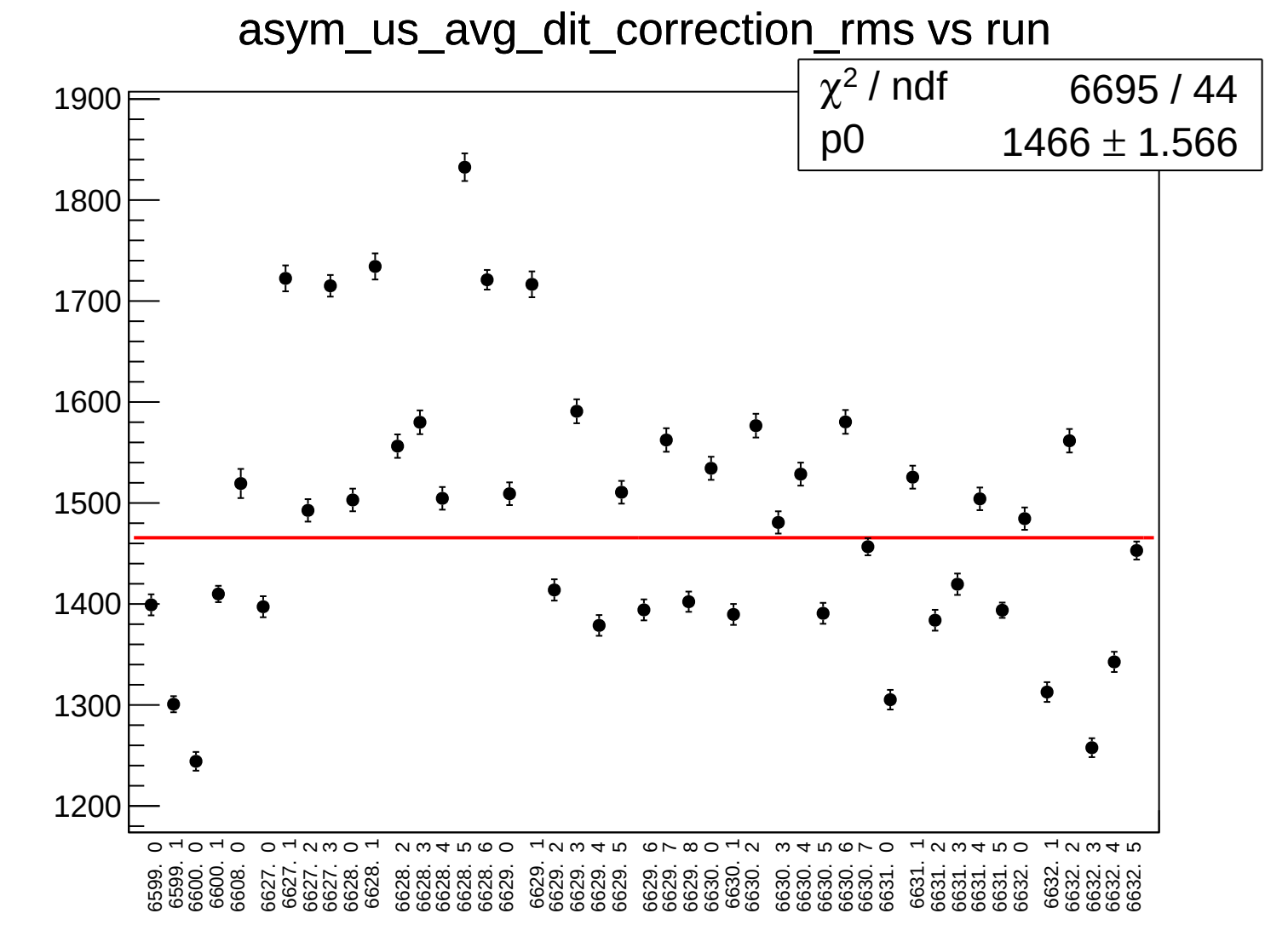

dit_asym_us_avg_mean vs run
χ² / ndf 53 / 44
p0 1385 ± 1199
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 1964
Std Dev 0
2
1
0
−1
−2

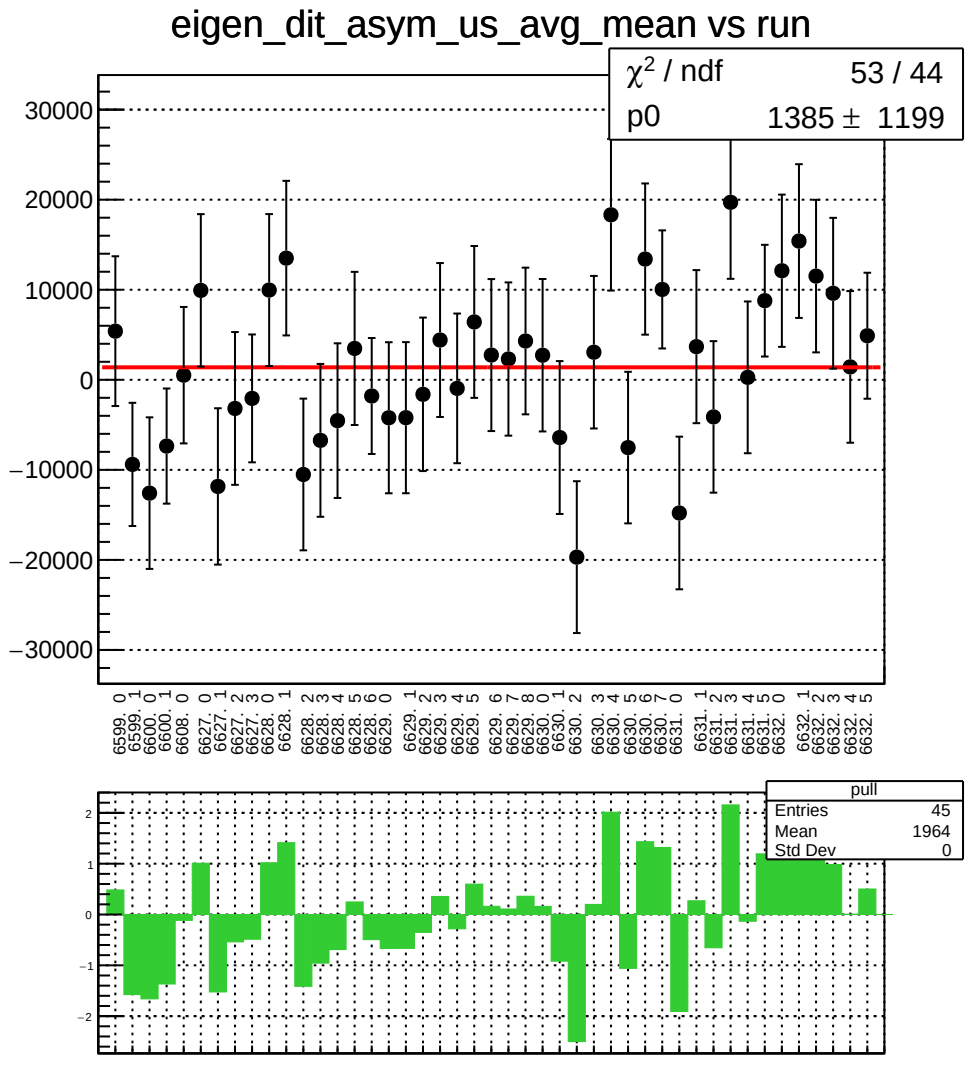

pull1D
Entries 45
Mean 0.002974
Std Dev 1.085
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

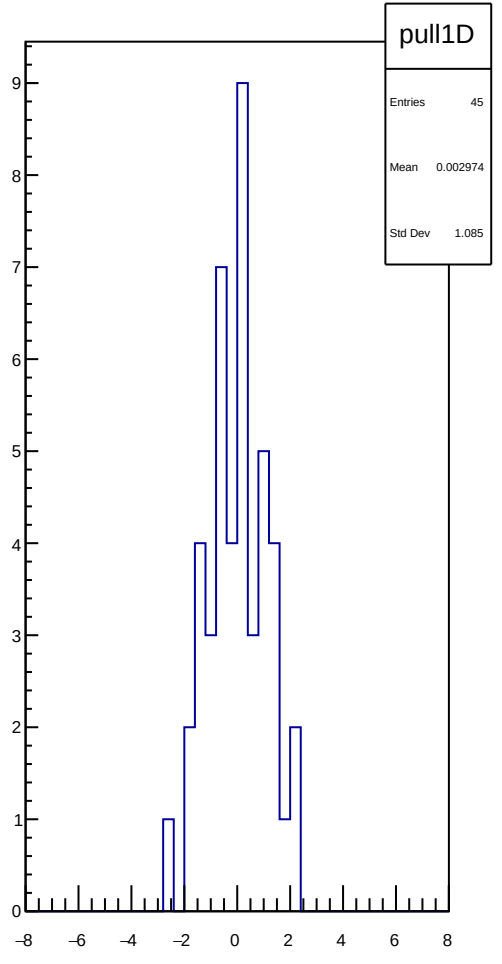

dit_asym_us_avg_rms vs run
χ² / ndf 1994 / 44
p0 795.9 ± 0.8481
850
800
750
700
650
600
550
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

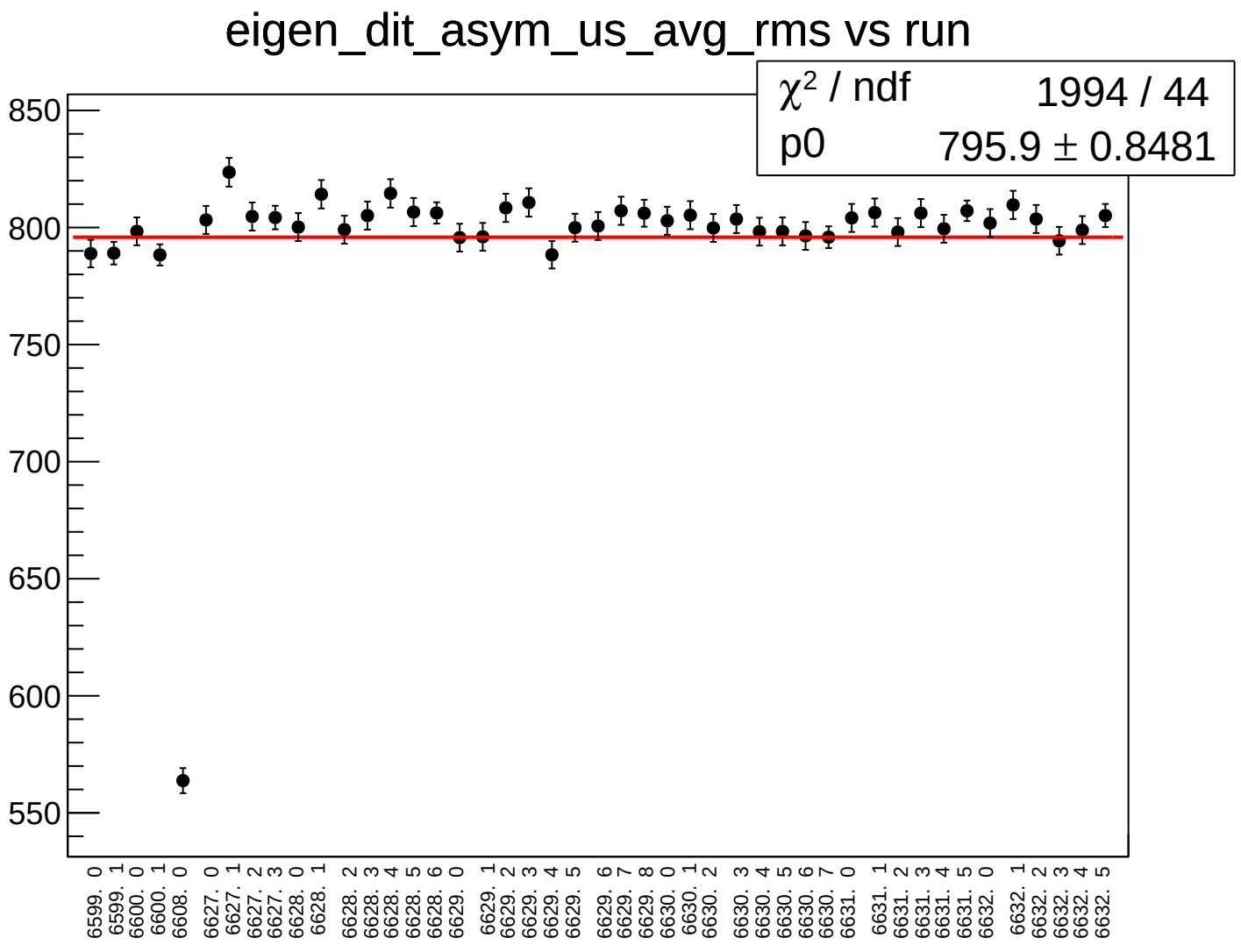

asym_us_avg_dit_correction_mean vs run
χ² / ndf 64.19 / 44
p0 2606 ± 2215
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −53.59
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.01994
Std Dev 1.194
9
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 6695 / 44
p0 1466 ± 1.566
1900
1800
1700
1600
1500
1400
1300
1200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_us_avg_mean vs run
χ² / ndf 53 / 44
p0 1385 ± 1199
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 1964
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.002974
Std Dev 1.085
9
8
7
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 1994 / 44
p0 795.9 ± 0.8481
850
800
750
700
650
600
550
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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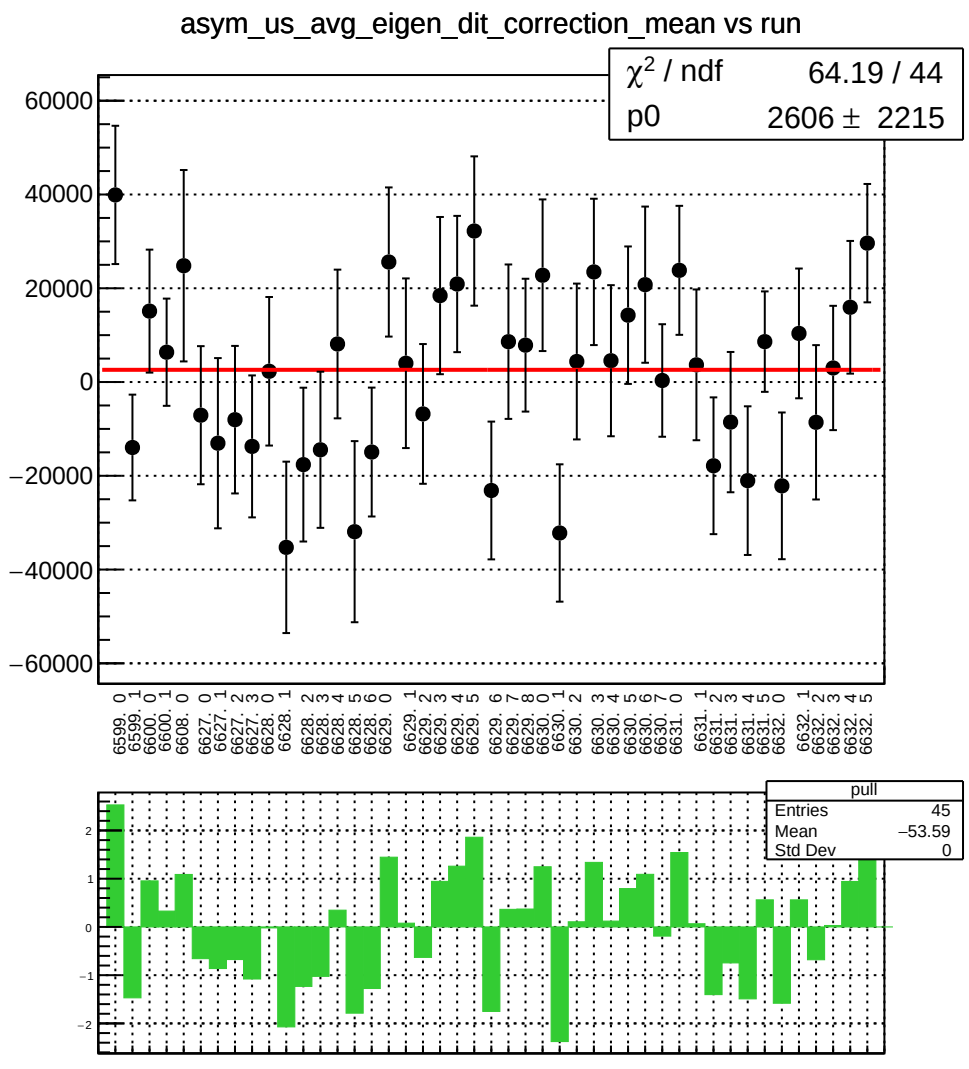
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 64.19 / 44
p0 2606 ± 2215
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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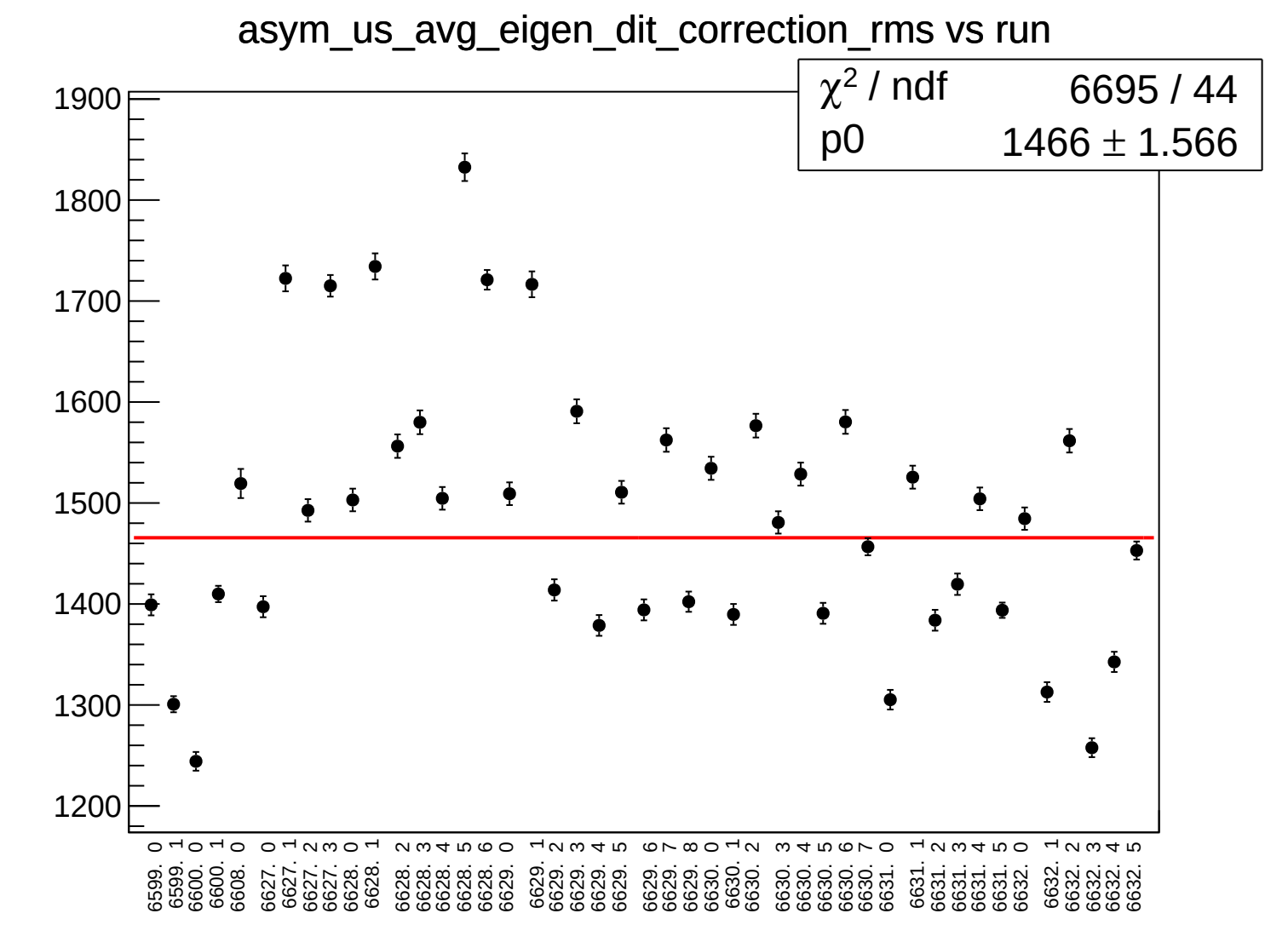
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −53.59
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01994
Std Dev 1.194
9
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 6695 / 44
p0 1466 ± 1.566
1900
1800
1700
1600
1500
1400
1300
1200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
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6632. 2
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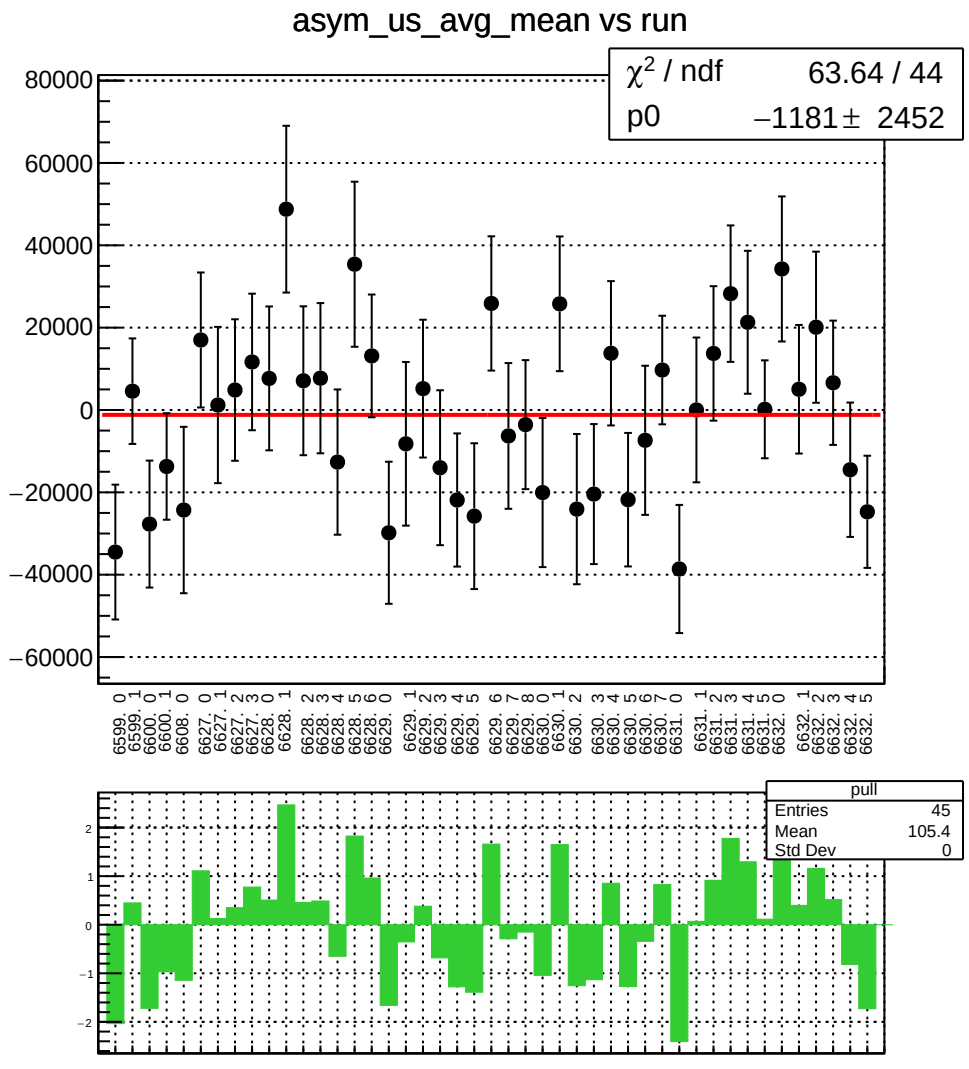
6632. 4
6632. 5


asym_us_avg_mean vs run
χ² / ndf 63.64 / 44
p0 −1181 ± 2452
80000
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
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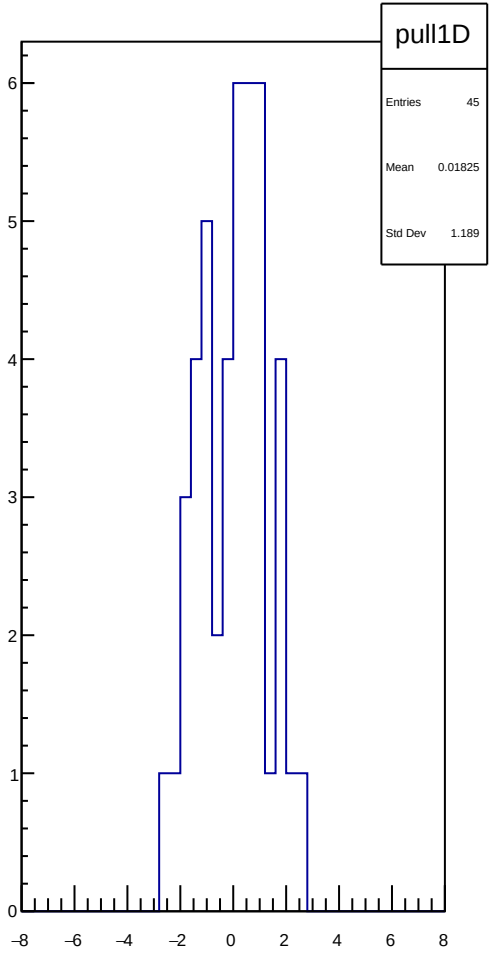
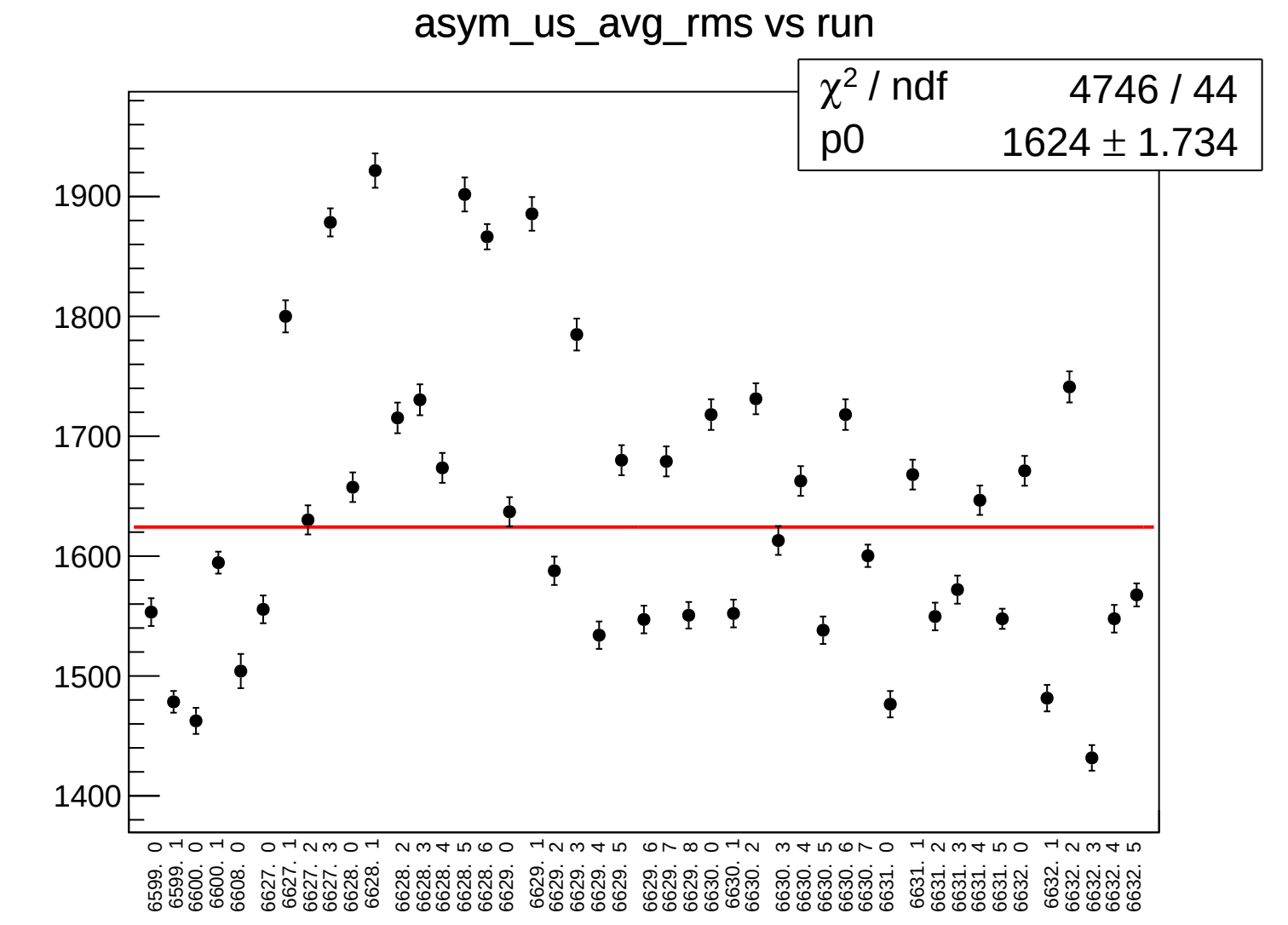
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 105.4
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.01825
Std Dev 1.189
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_rms vs run
χ² / ndf 4746 / 44
p0 1624 ± 1.734
1900
1800
1700
1600
1500
1400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
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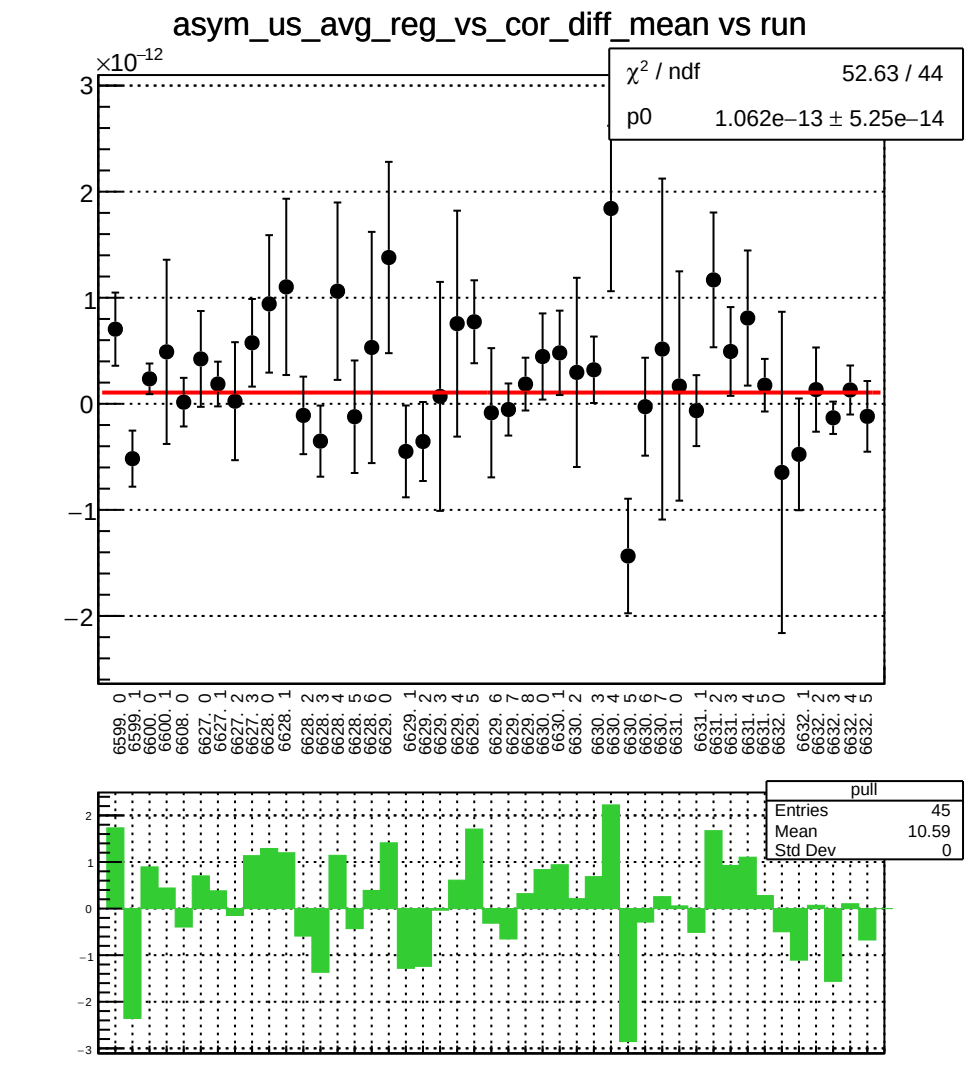
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_avg_reg_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 52.63 / 44
p0 1.062e−13 ± 5.25e−14
3
2
1
0
−1
−2
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
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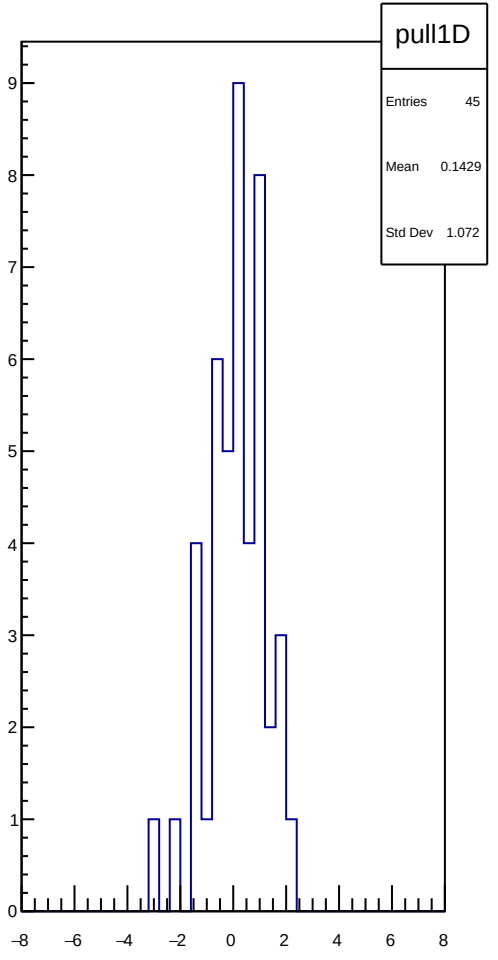
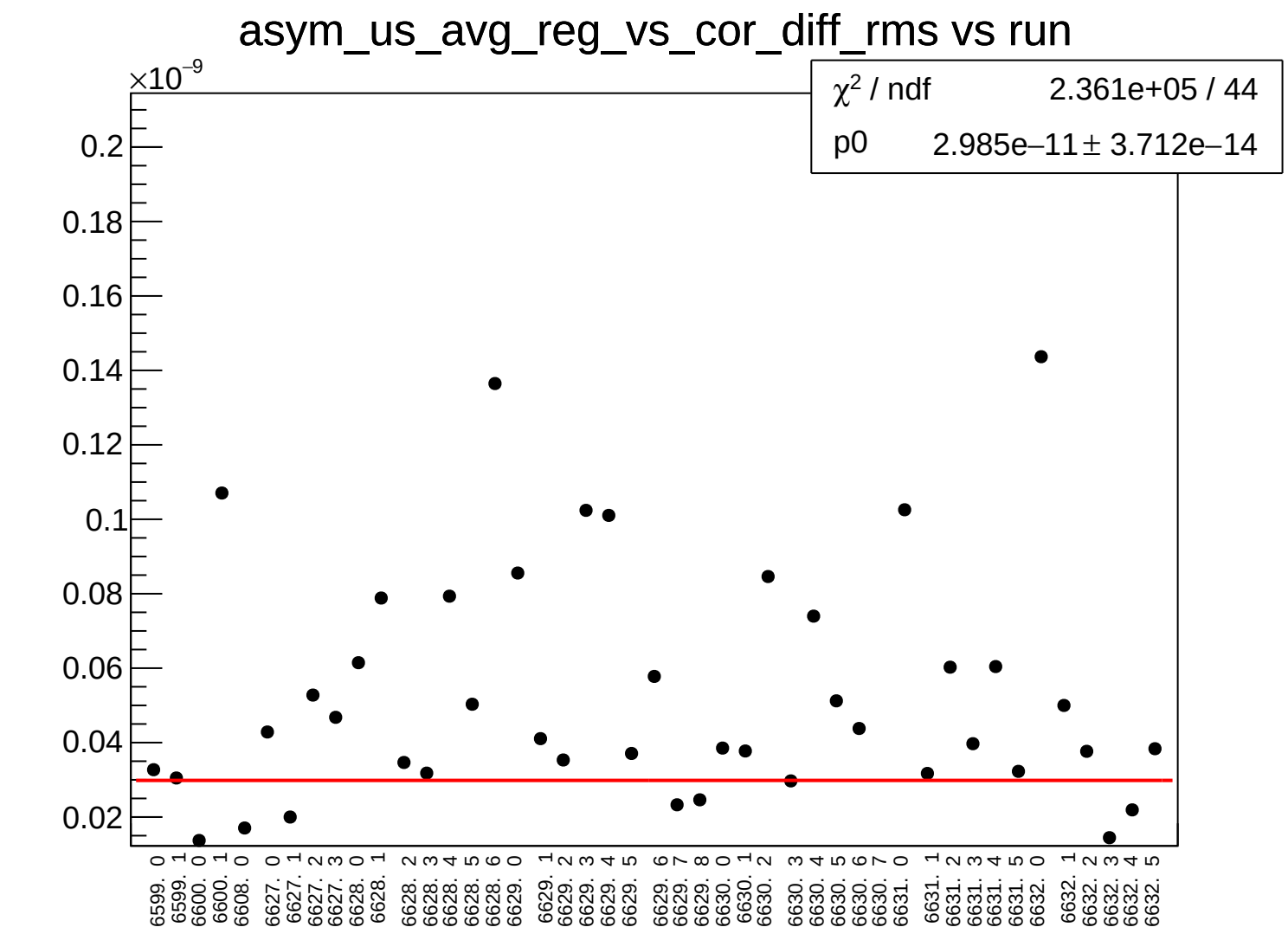
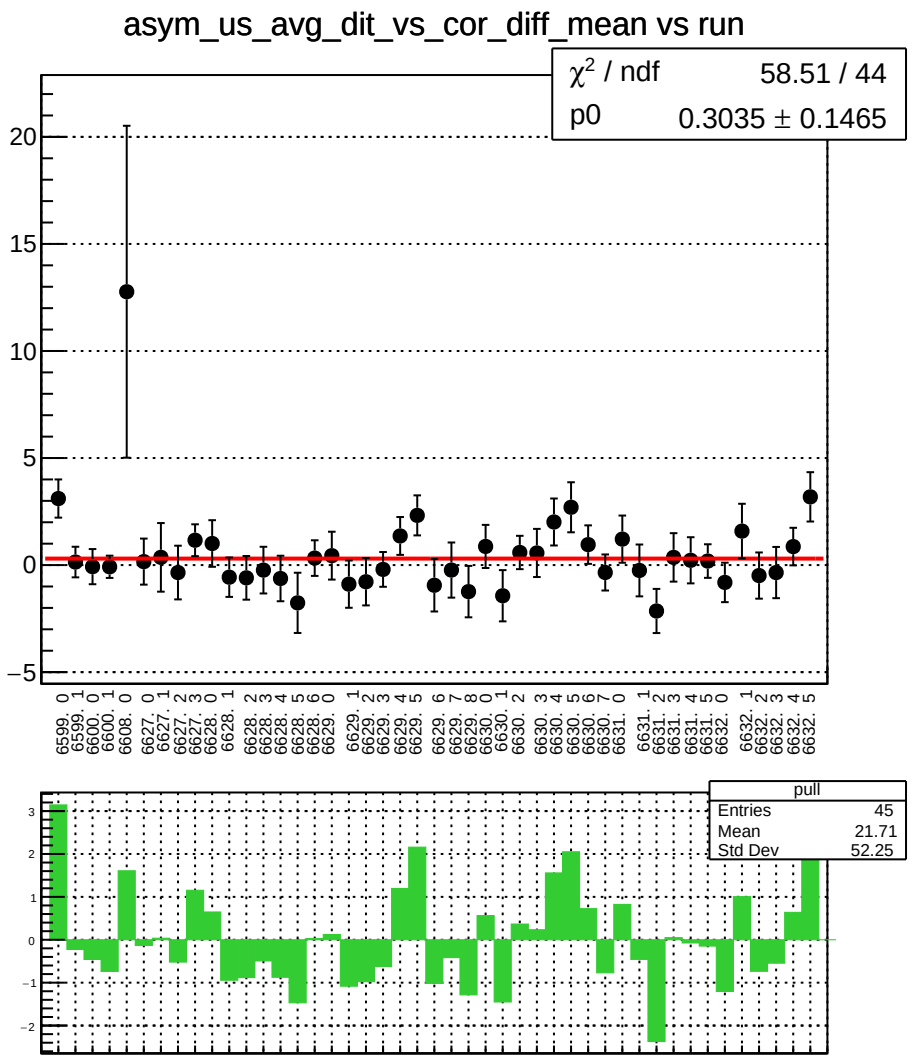
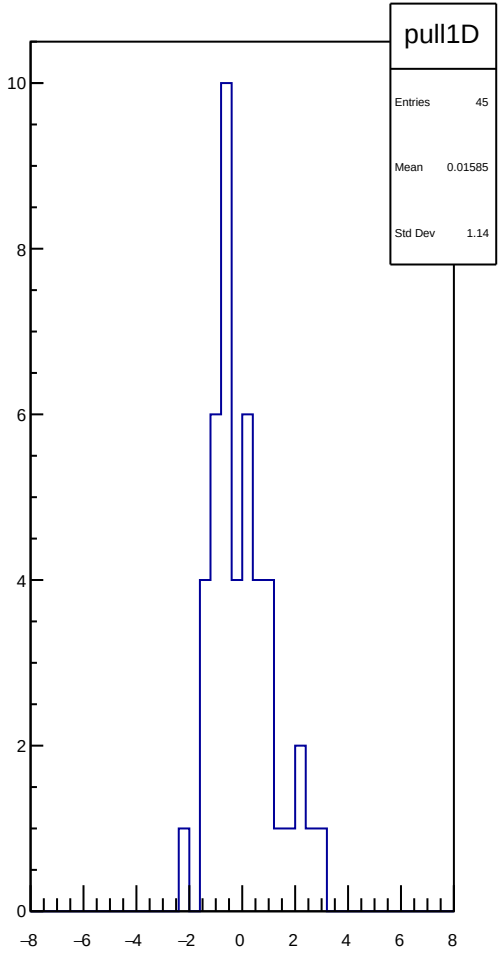
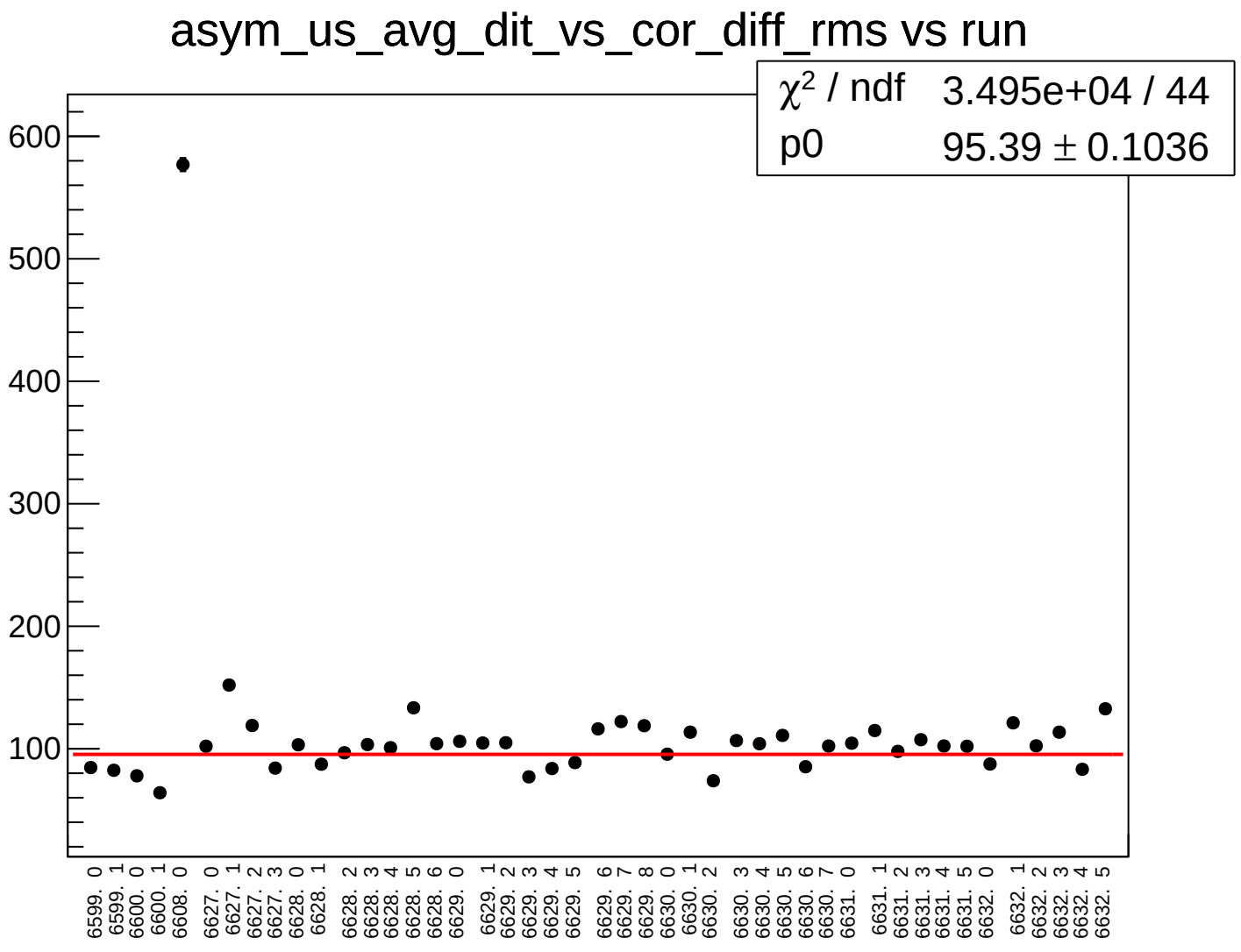
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 10.59
Std Dev 0
2
1
0
−1
−2
−3

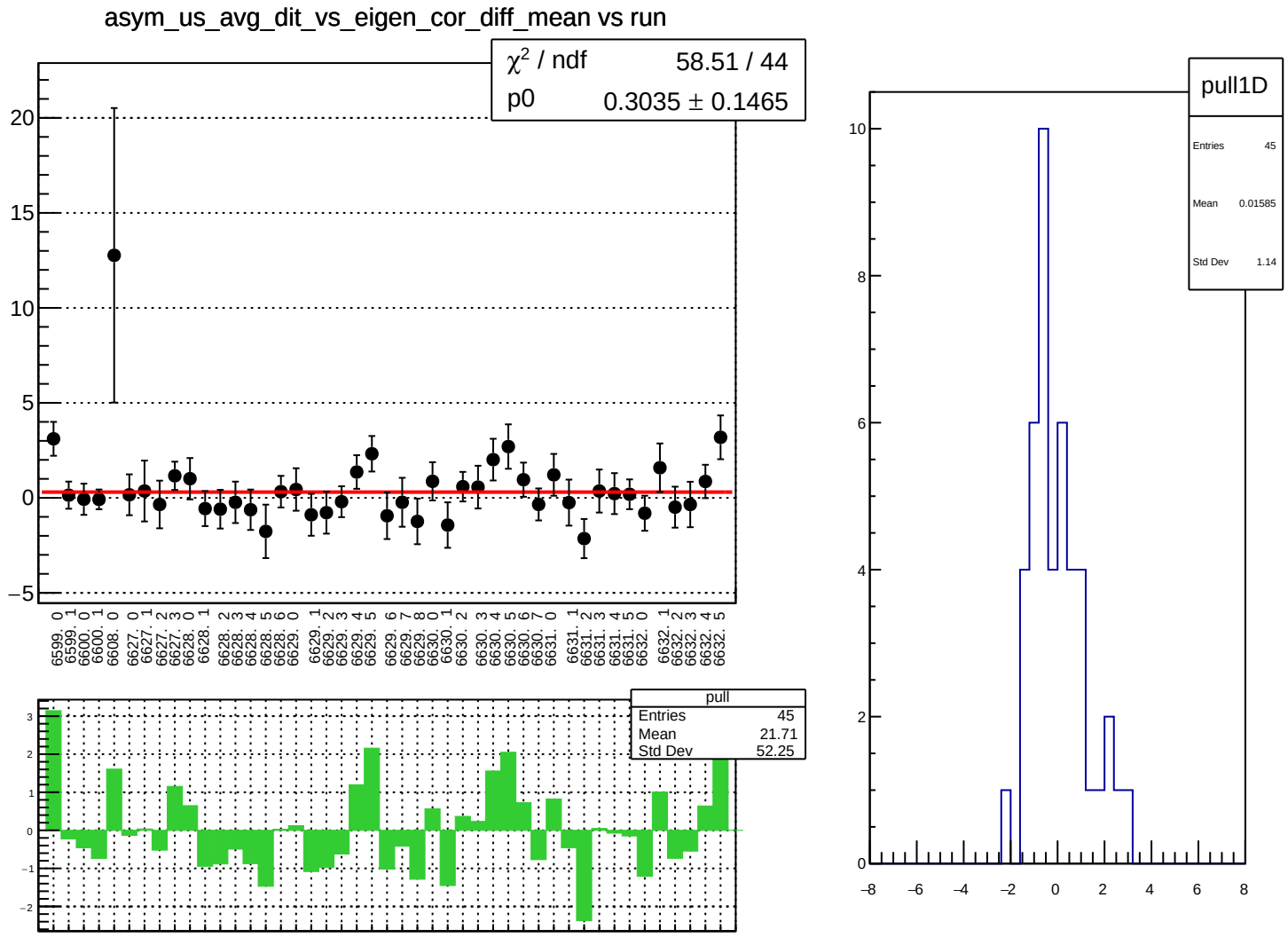

pull1D
Entries 45
Mean 0.1429
Std Dev 1.072
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

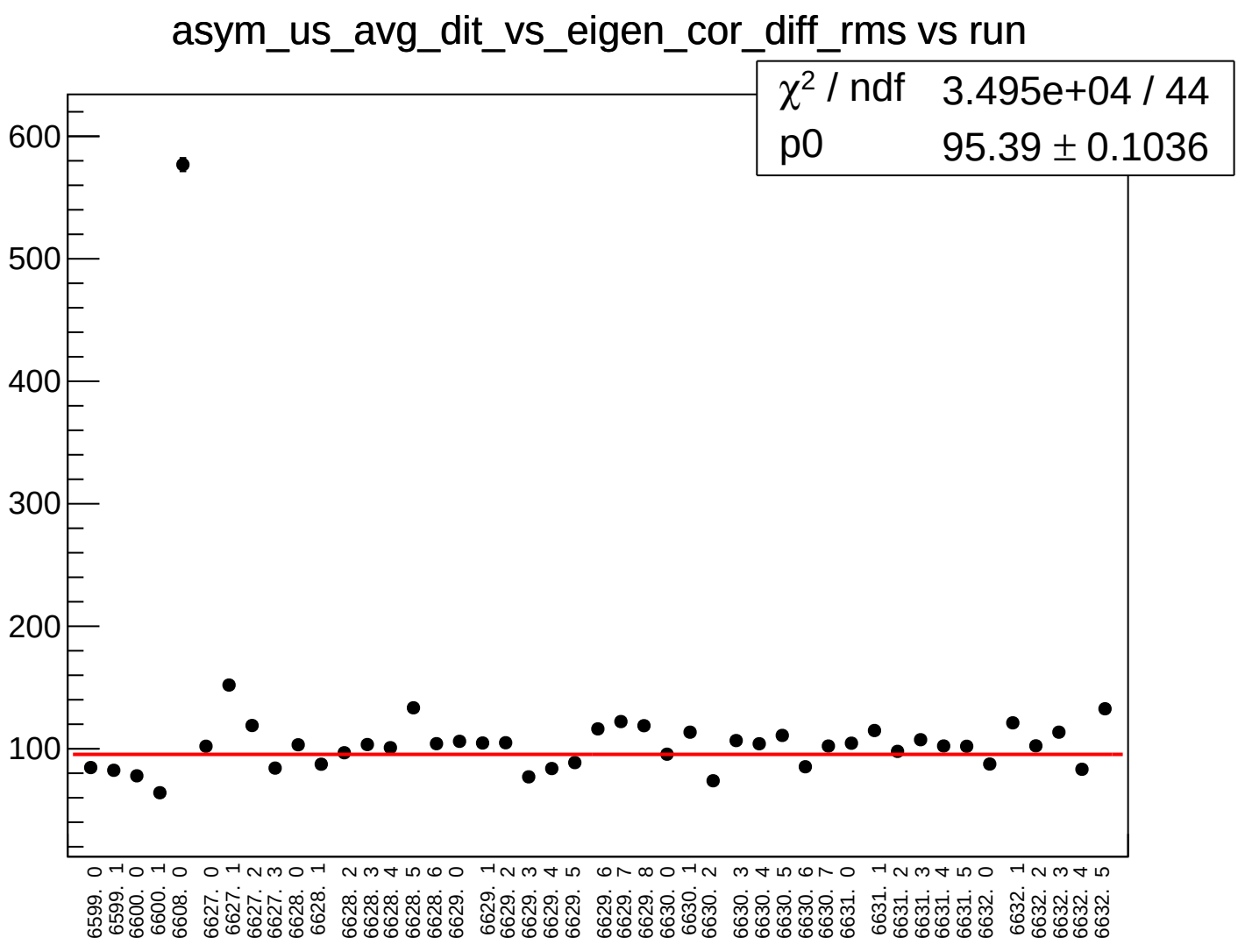

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.361e+05 / 44
p0 2.985e−11 ± 3.712e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 58.51 / 44
p0 0.3035 ± 0.1465
20
15
10
5
0
−5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 21.71
Std Dev 52.25
3
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.01585
Std Dev 1.14
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.495e+04 / 44
p0 95.39 ± 0.1036
600
500
400
300
200
100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 58.51 / 44
p0 0.3035 ± 0.1465
pull
Entries 45
Mean 21.71
Std Dev 52.25
pull1D
Entries 45
Mean 0.01585
Std Dev 1.14


asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.495e+04 / 44
p0 95.39 ± 0.1036
600
500
400
300
200
100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
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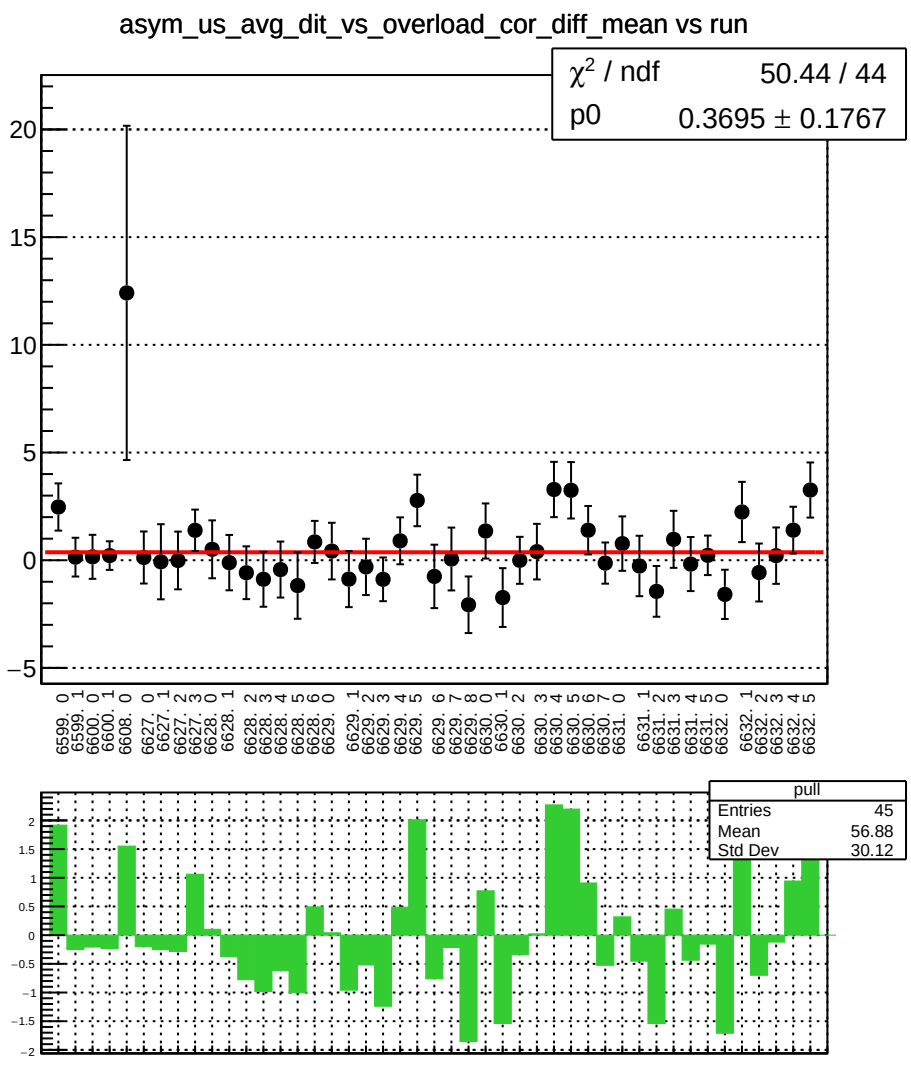
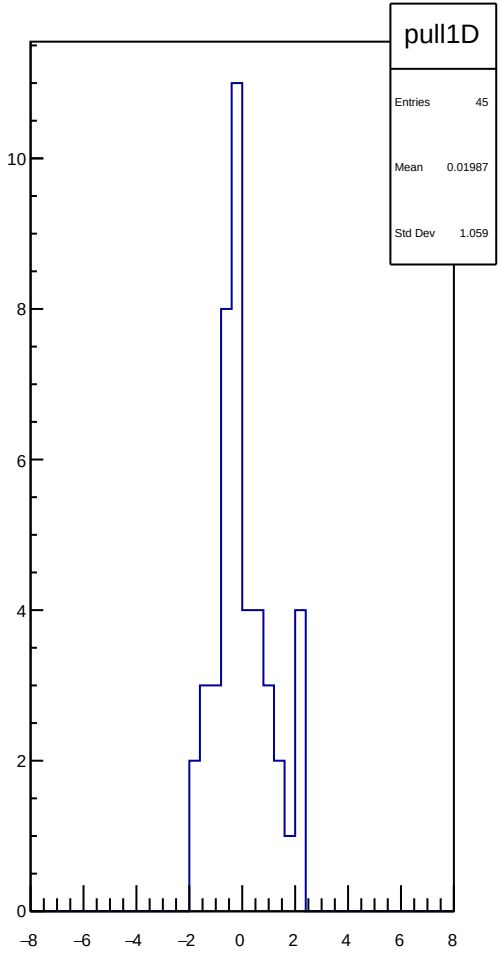
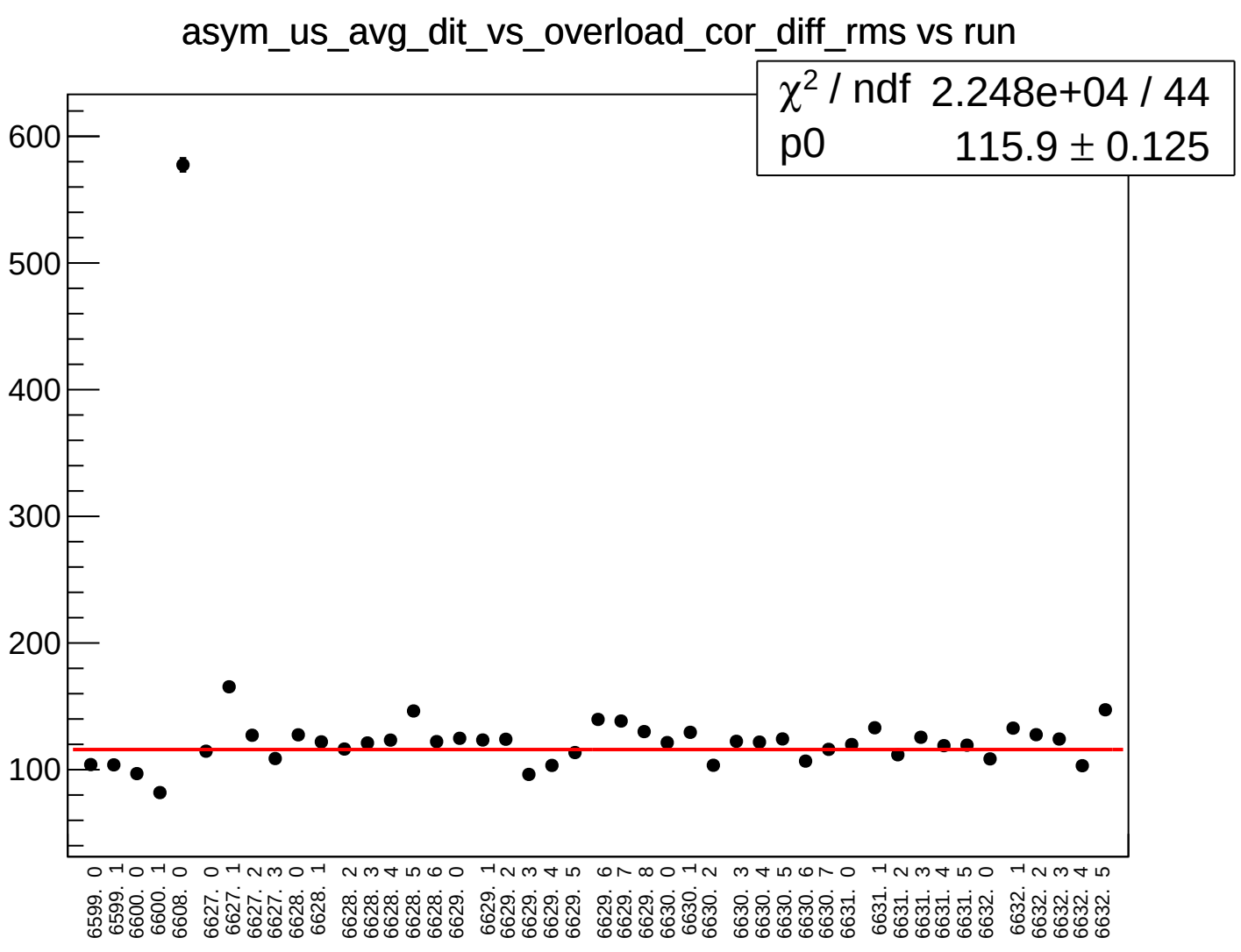
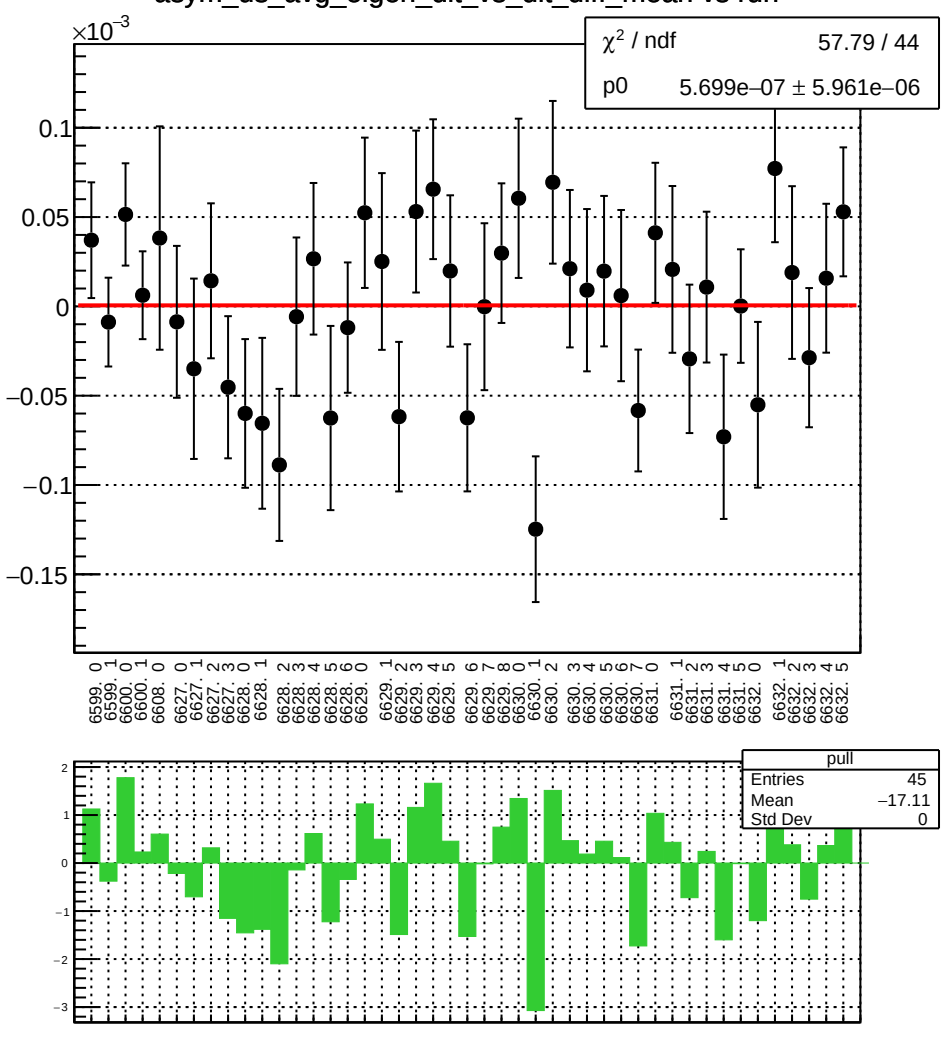
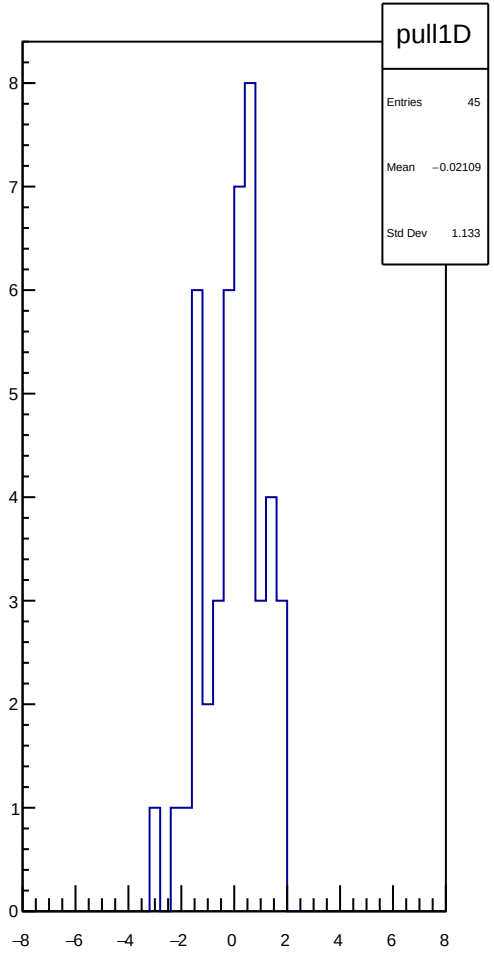
6632. 4
6632. 5

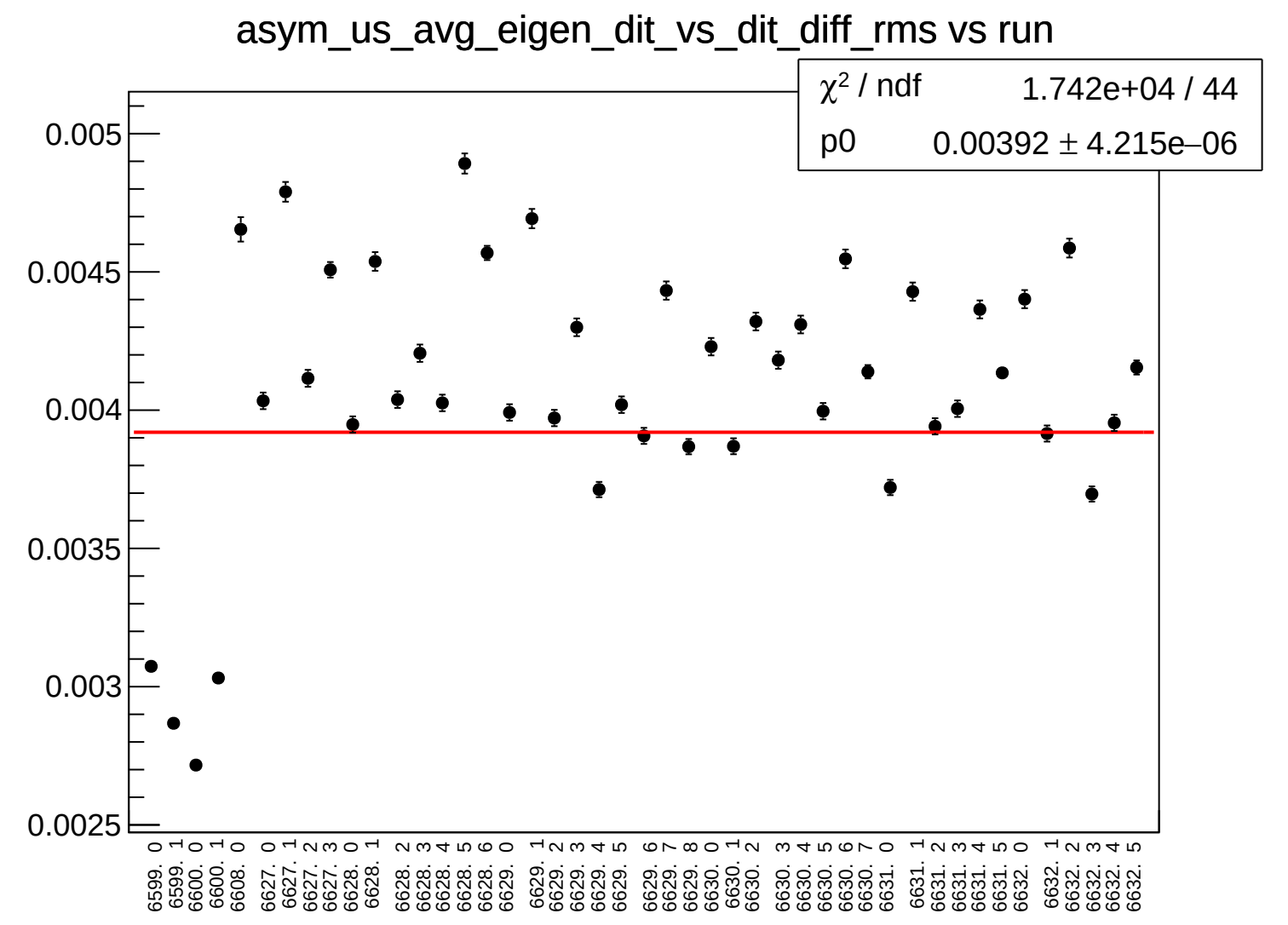

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 50.44 / 44
p0 0.3695 ± 0.1767
pull
Entries 45
Mean 56.88
Std Dev 30.12

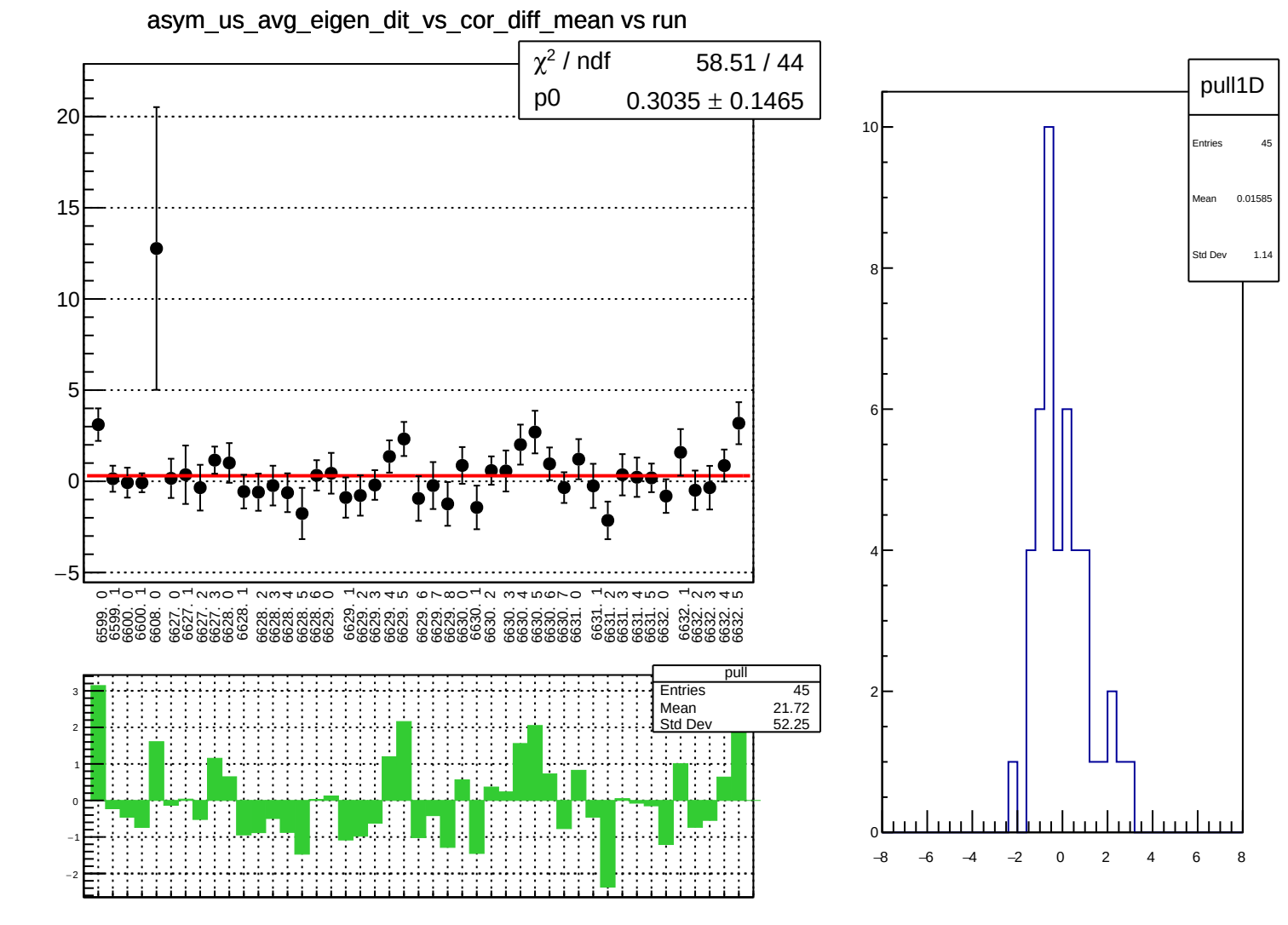

pull1D
Entries 45
Mean 0.01987
Std Dev 1.059

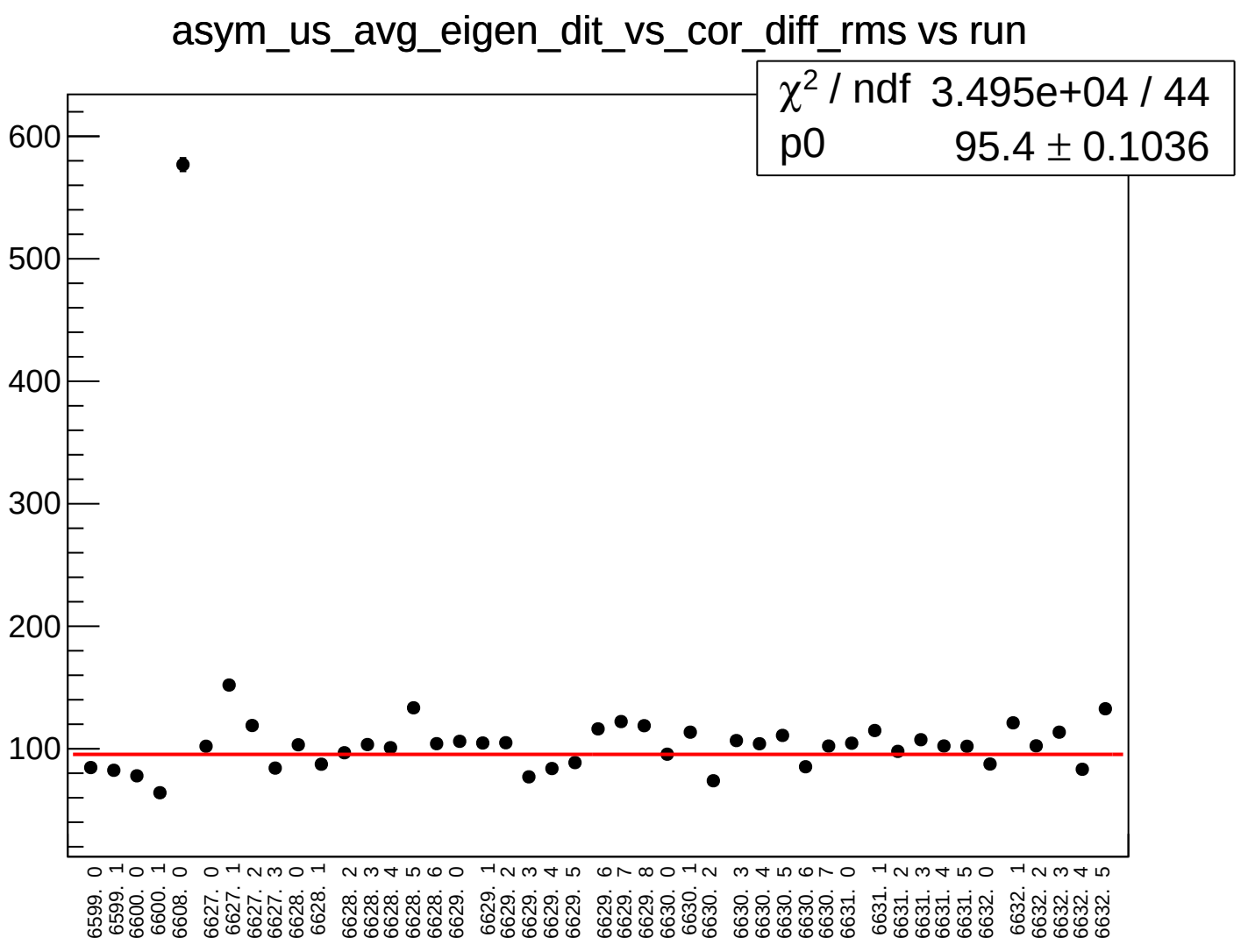

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.248e+04 / 44
p0 115.9 ± 0.125
600
500
400
300
200
100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 57.79 / 44
p0 5.699e−07 ± 5.961e−06
0.1
0.05
0
−0.05
−0.1
−0.15
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −17.11
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.02109
Std Dev 1.133
8
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 1.742e+04 / 44
p0 0.00392 ± 4.215e–06
0.005
0.0045
0.004
0.0035
0.003
0.0025
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 58.51 / 44
p0 0.3035 ± 0.1465
pull
Entries 45
Mean 21.72
Std Dev 52.25
pull1D
Entries 45
Mean 0.01585
Std Dev 1.14


asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.495e+04 / 44
p0 95.4 ± 0.1036
600
500
400
300
200
100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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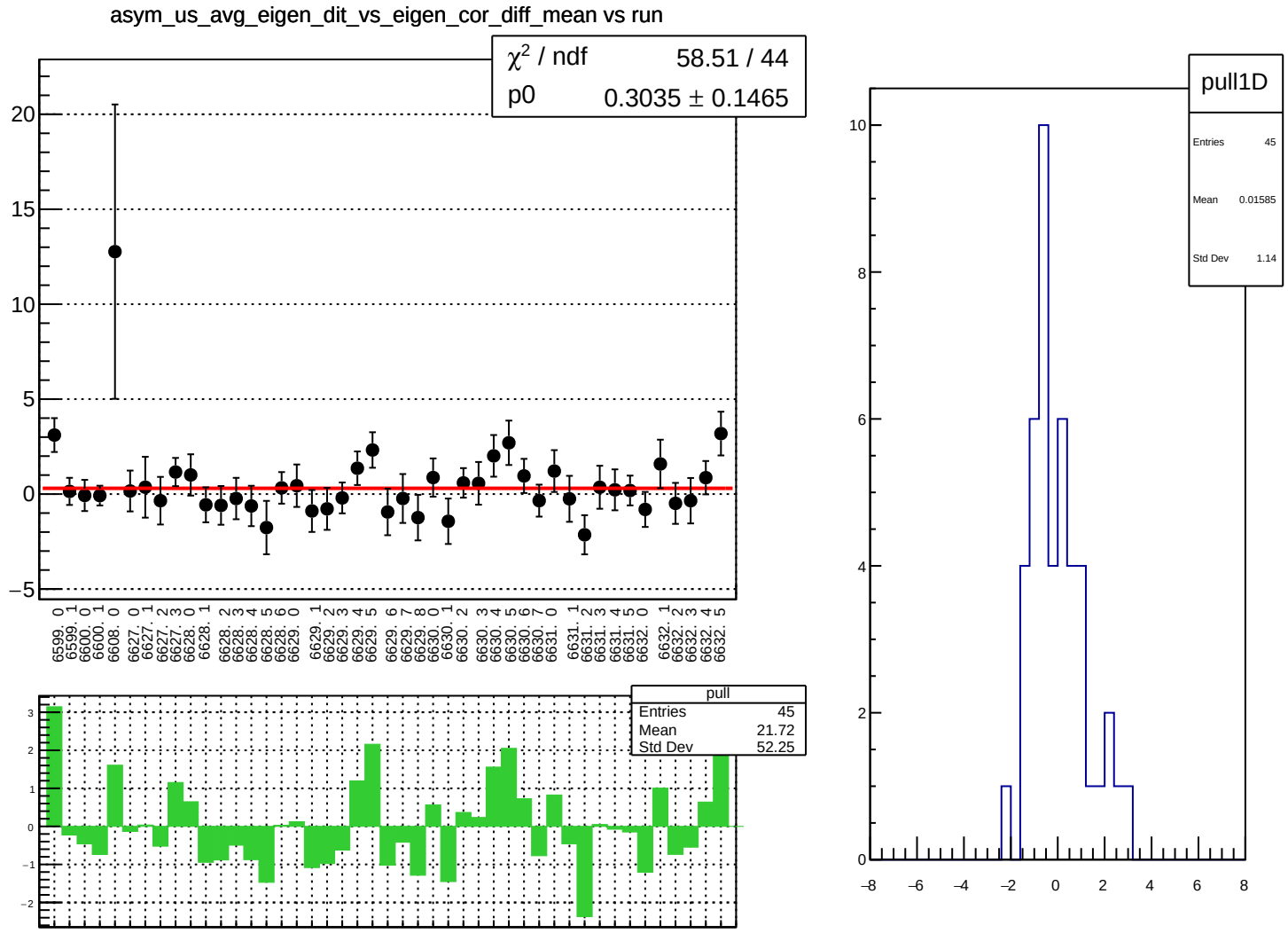
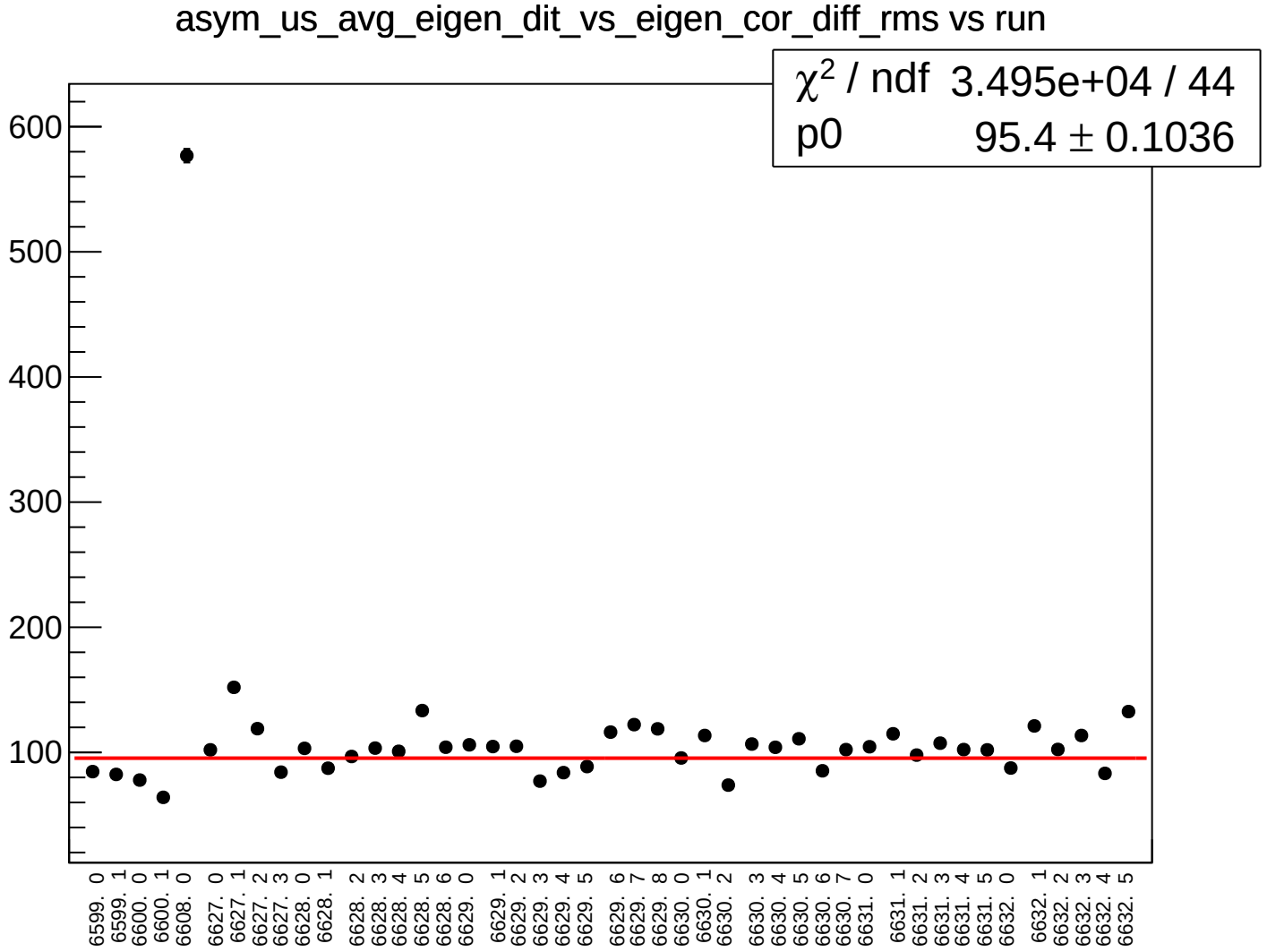
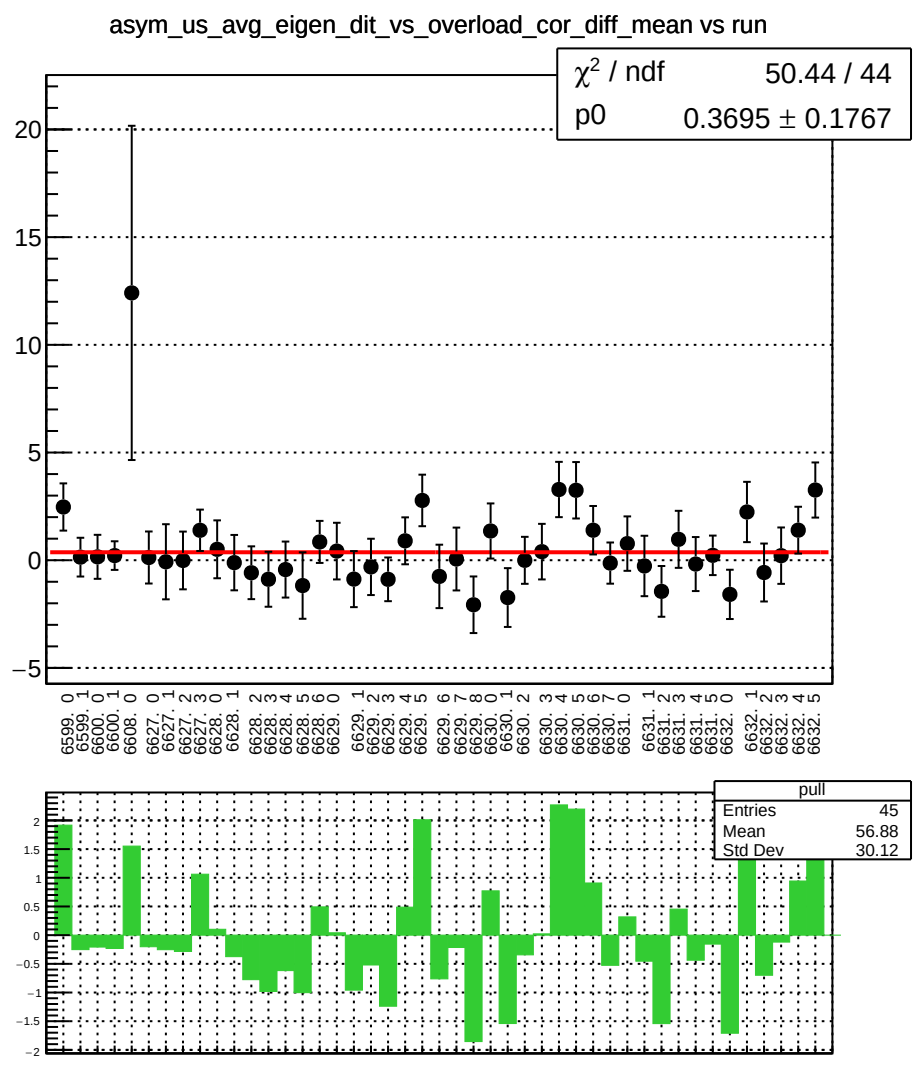
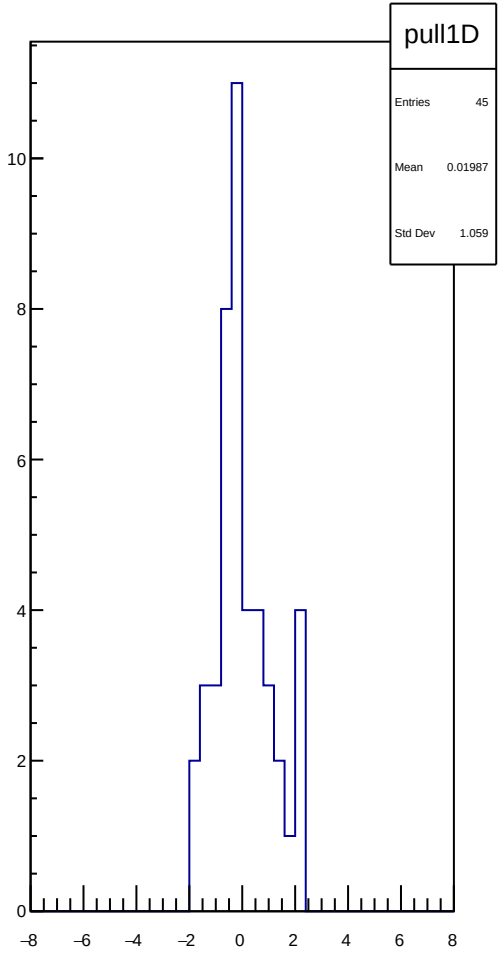
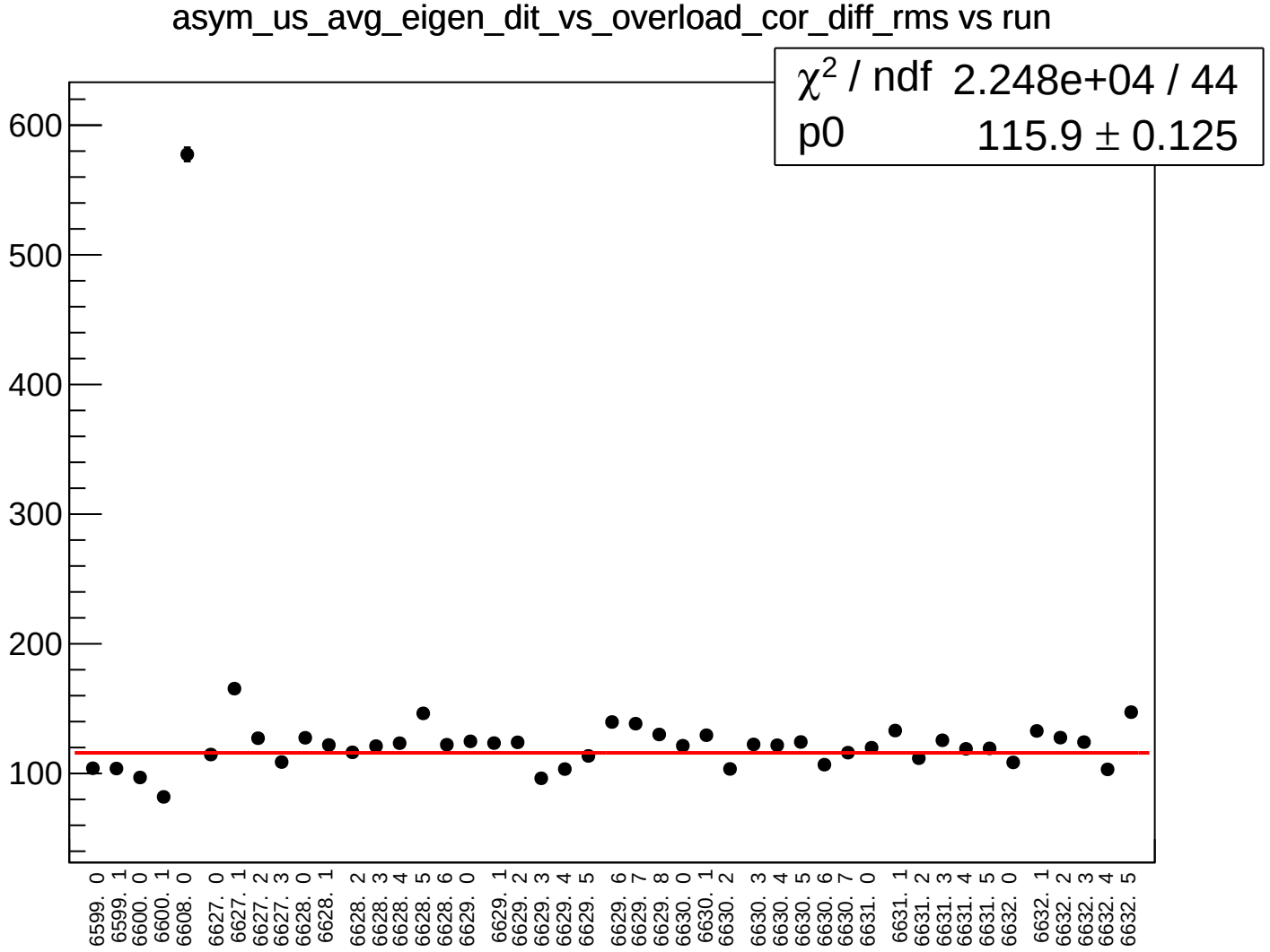
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 58.51 / 44
p0 0.3035 ± 0.1465
pull
Entries 45
Mean 21.72
Std Dev 52.25
pull1D
Entries 45
Mean 0.01585
Std Dev 1.14


asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.495e+04 / 44
p0 95.4 ± 0.1036
600
500
400
300
200
100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 50.44 / 44
p0 0.3695 ± 0.1767
pull
Entries 45
Mean 56.88
Std Dev 30.12


pull1D
Entries 45
Mean 0.01987
Std Dev 1.059


asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.248e+04 / 44
p0 115.9 ± 0.125
600
500
400
300
200
100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6630. 7
6631. 0
6631. 1
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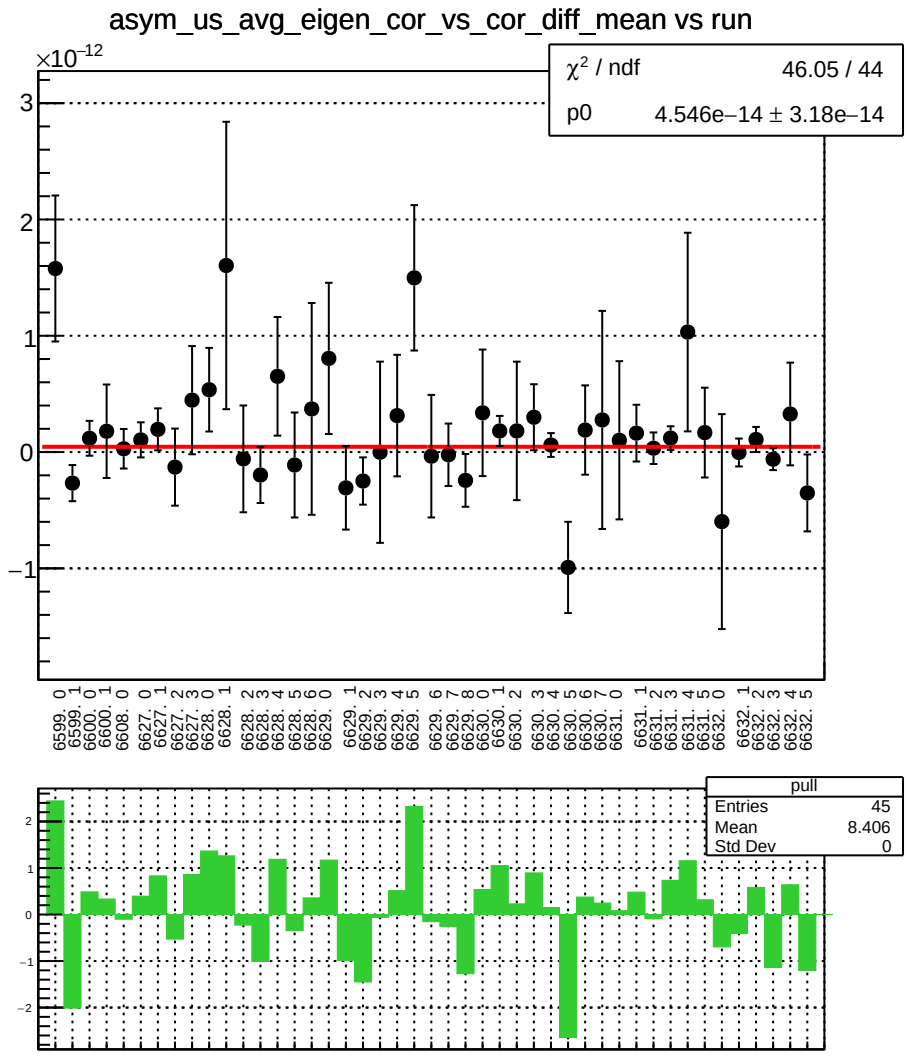
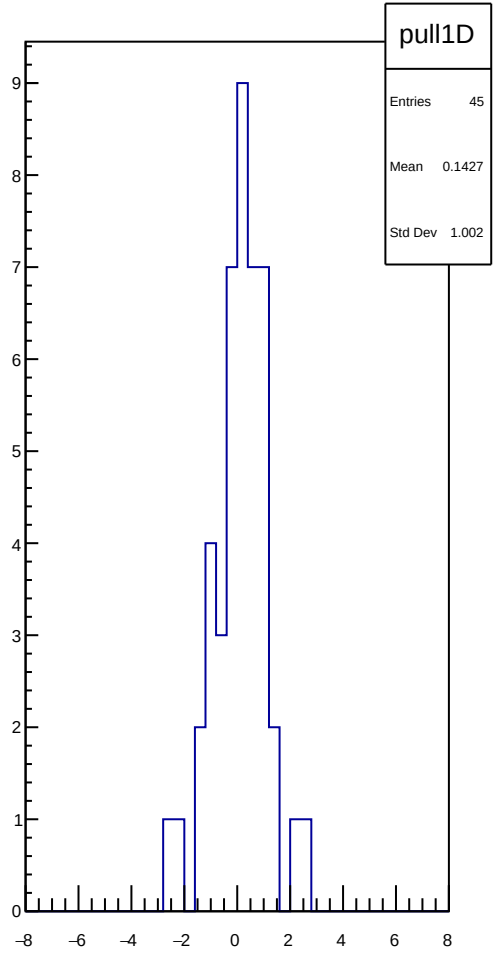
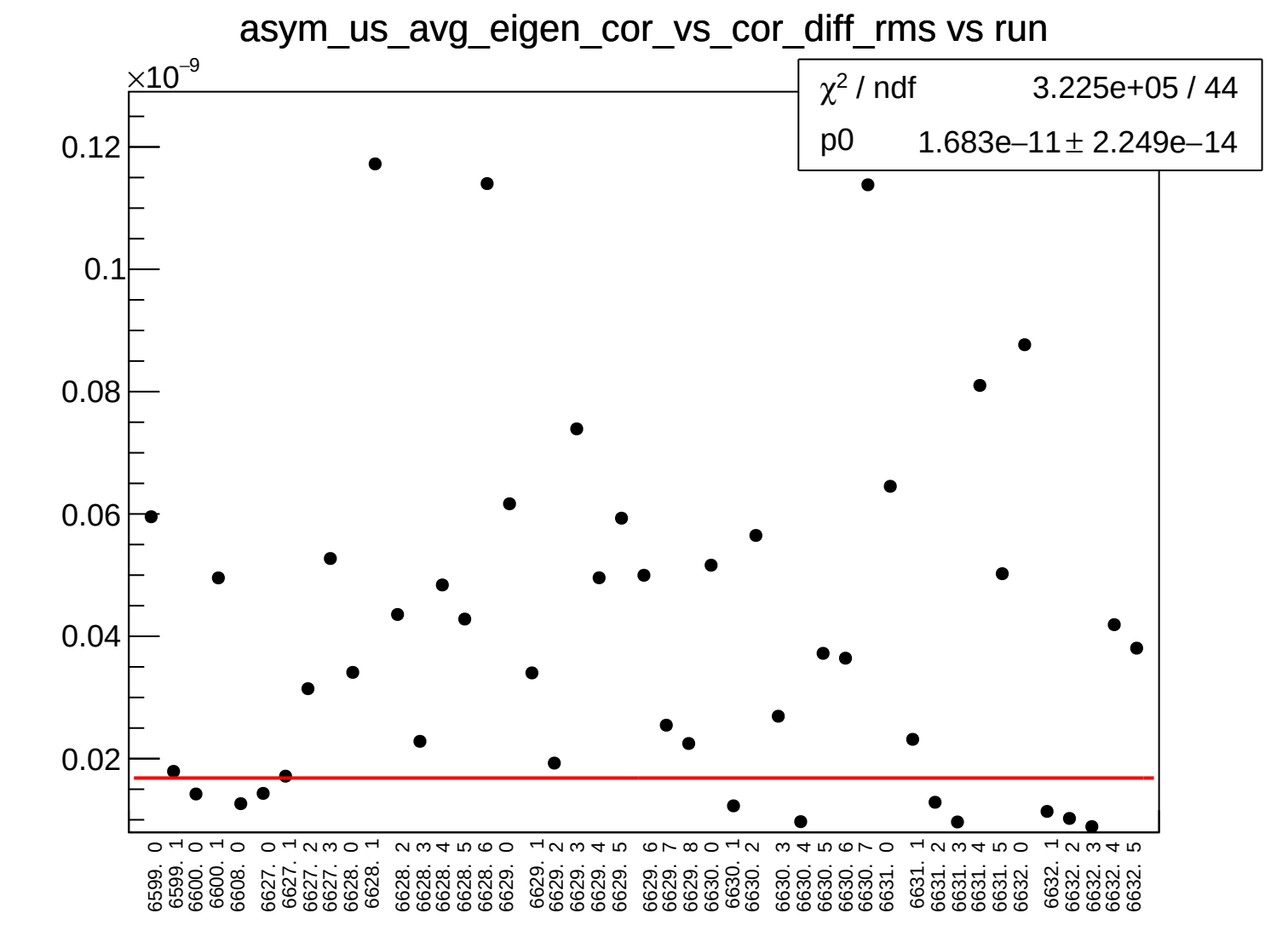
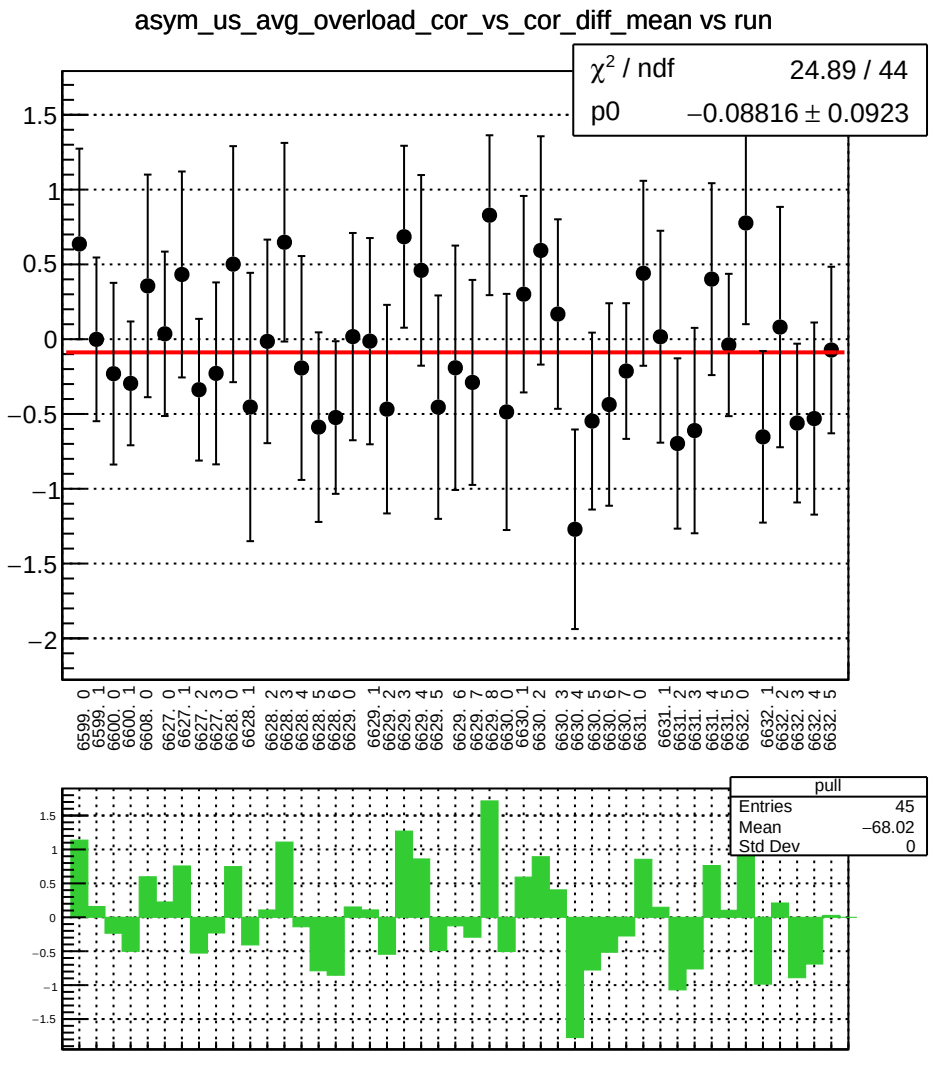
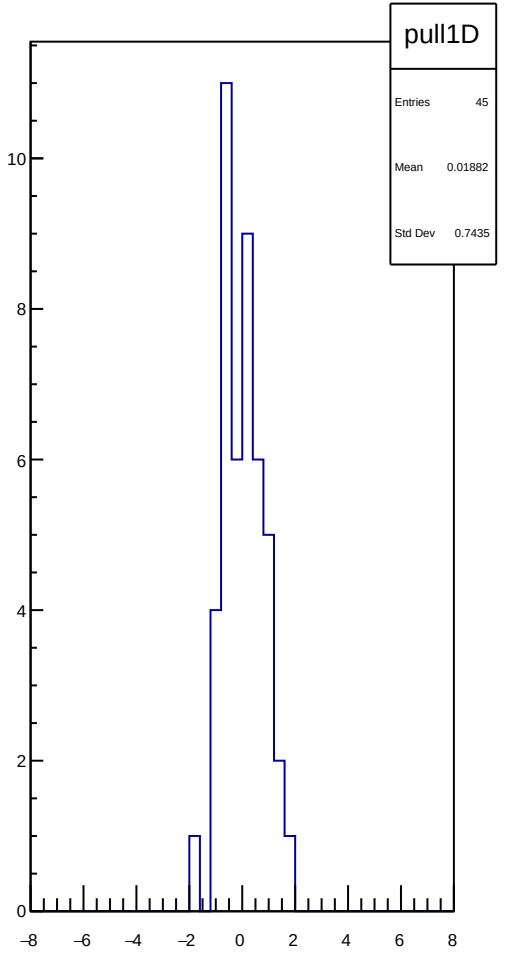
6632. 2
6632. 3
6632. 4
6632. 5

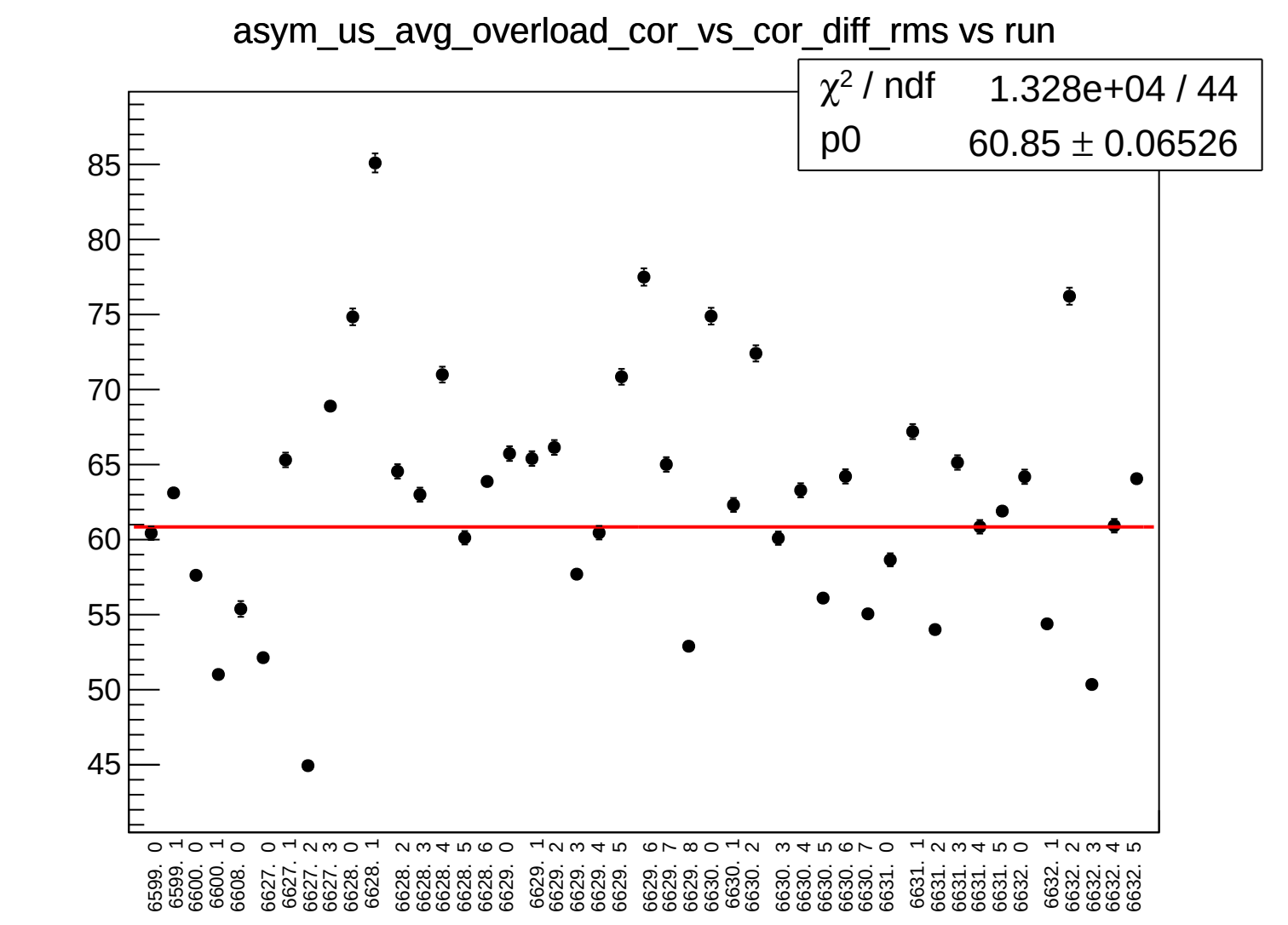

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 46.05 / 44
p0 4.546e−14 ± 3.18e−14
pull
Entries 45
Mean 8.406
Std Dev 0


pull1D
Entries 45
Mean 0.1427
Std Dev 1.002


asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.225e+05 / 44
p0 1.683e−11 ± 2.249e−14
0.12
0.1
0.08
0.06
0.04
0.02
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 24.89 / 44
p0 −0.08816 ± 0.0923
pull
Entries 45
Mean −68.02
Std Dev 0


pull1D
Entries 45
Mean 0.01882
Std Dev 0.7435


asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.328e+04 / 44
p0 60.85 ± 0.06526
85
80
75
70
65
60
55
50
45
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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6628. 6
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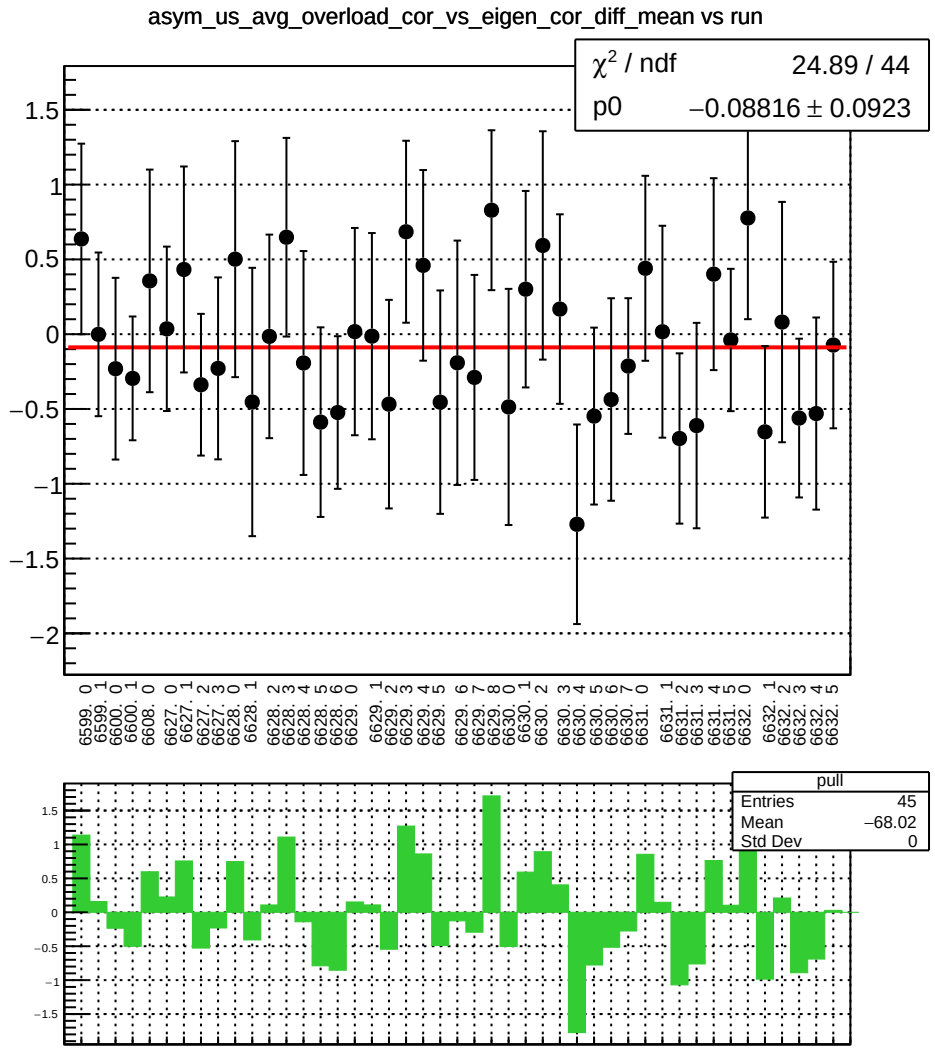
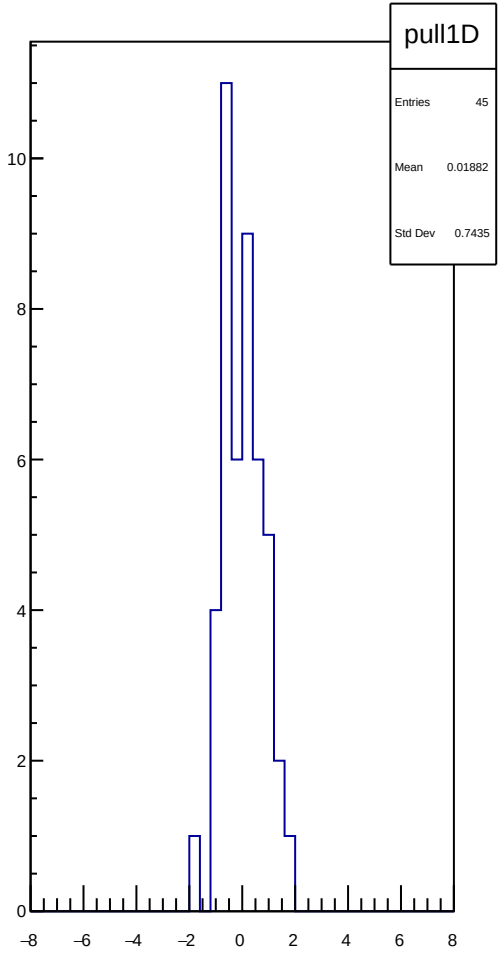
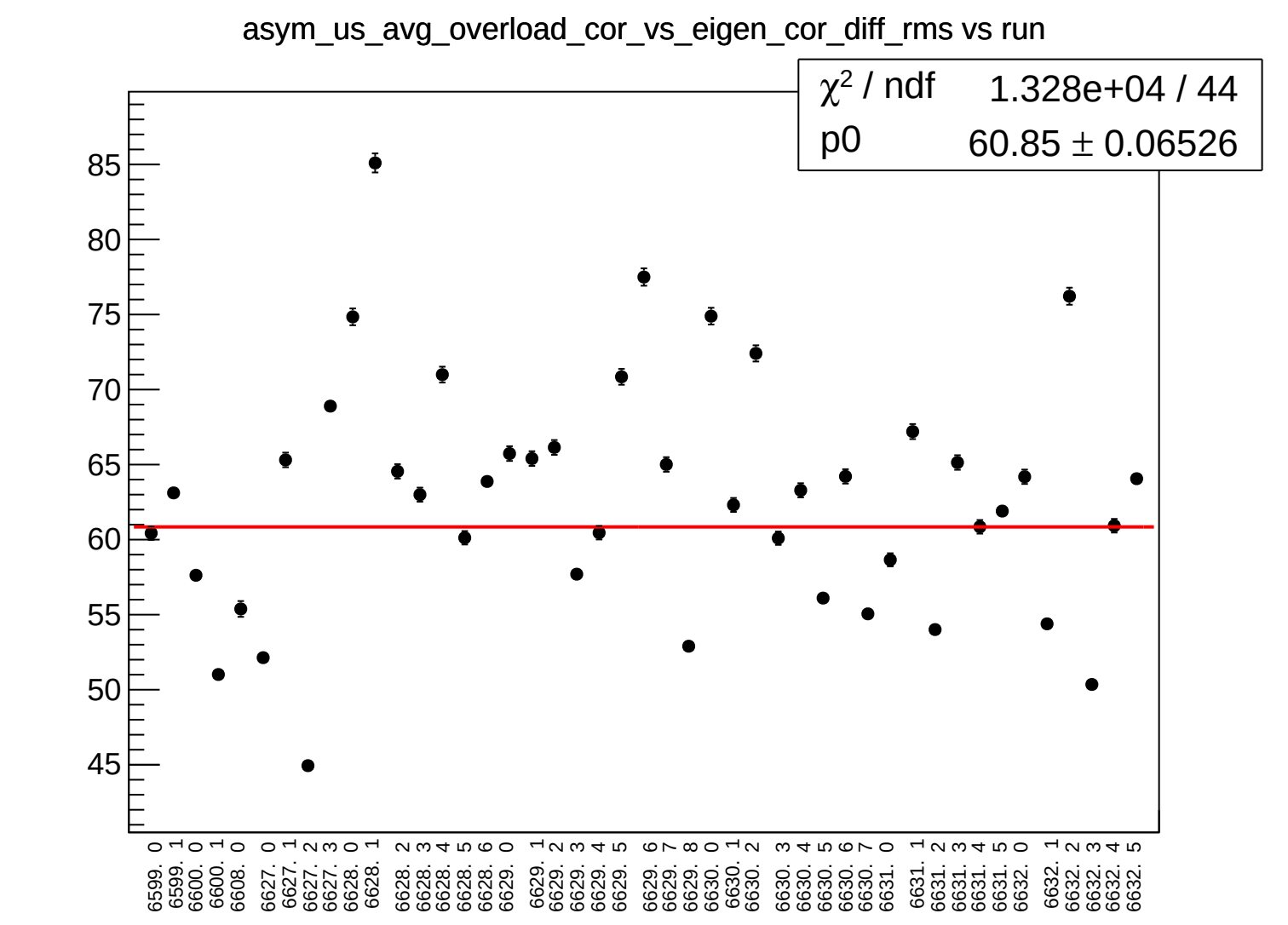
6632. 4
6632. 5


asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.89 / 44
p0 −0.08816 ± 0.0923
pull
Entries 45
Mean −68.02
Std Dev 0


pull1D
Entries 45
Mean 0.01882
Std Dev 0.7435


asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.328e+04 / 44
p0 60.85 ± 0.06526
85
80
75
70
65
60
55
50
45
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
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6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
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6632. 2
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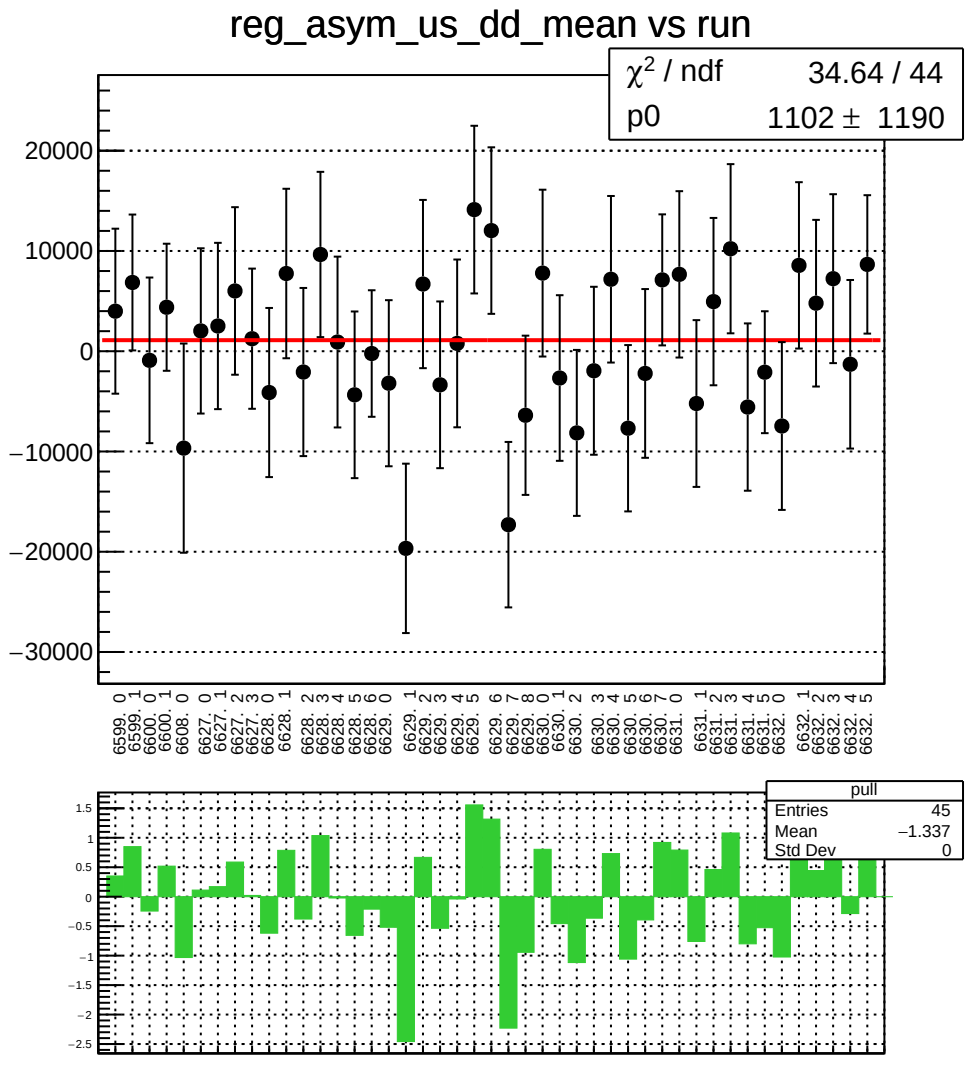
6632. 4
6632. 5


reg_asym_us_dd_mean vs run
χ² / ndf 34.64 / 44
p0 1102 ± 1190
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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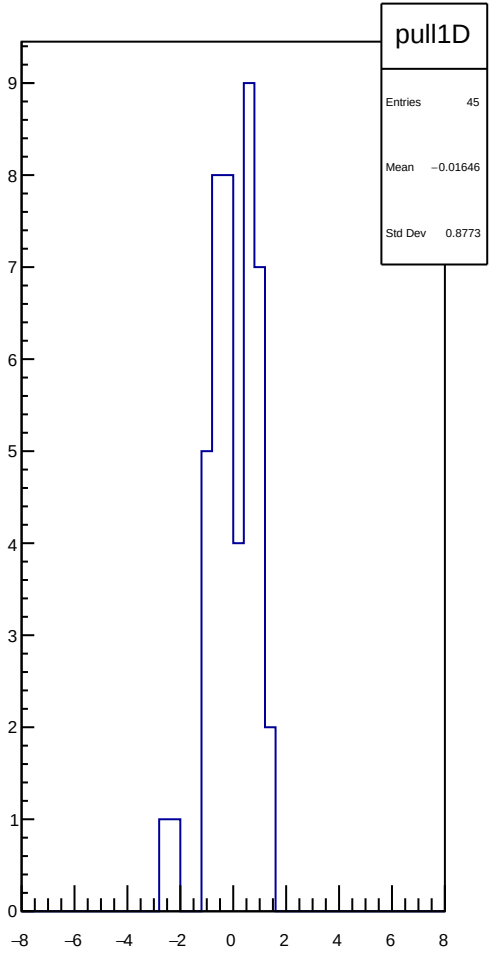
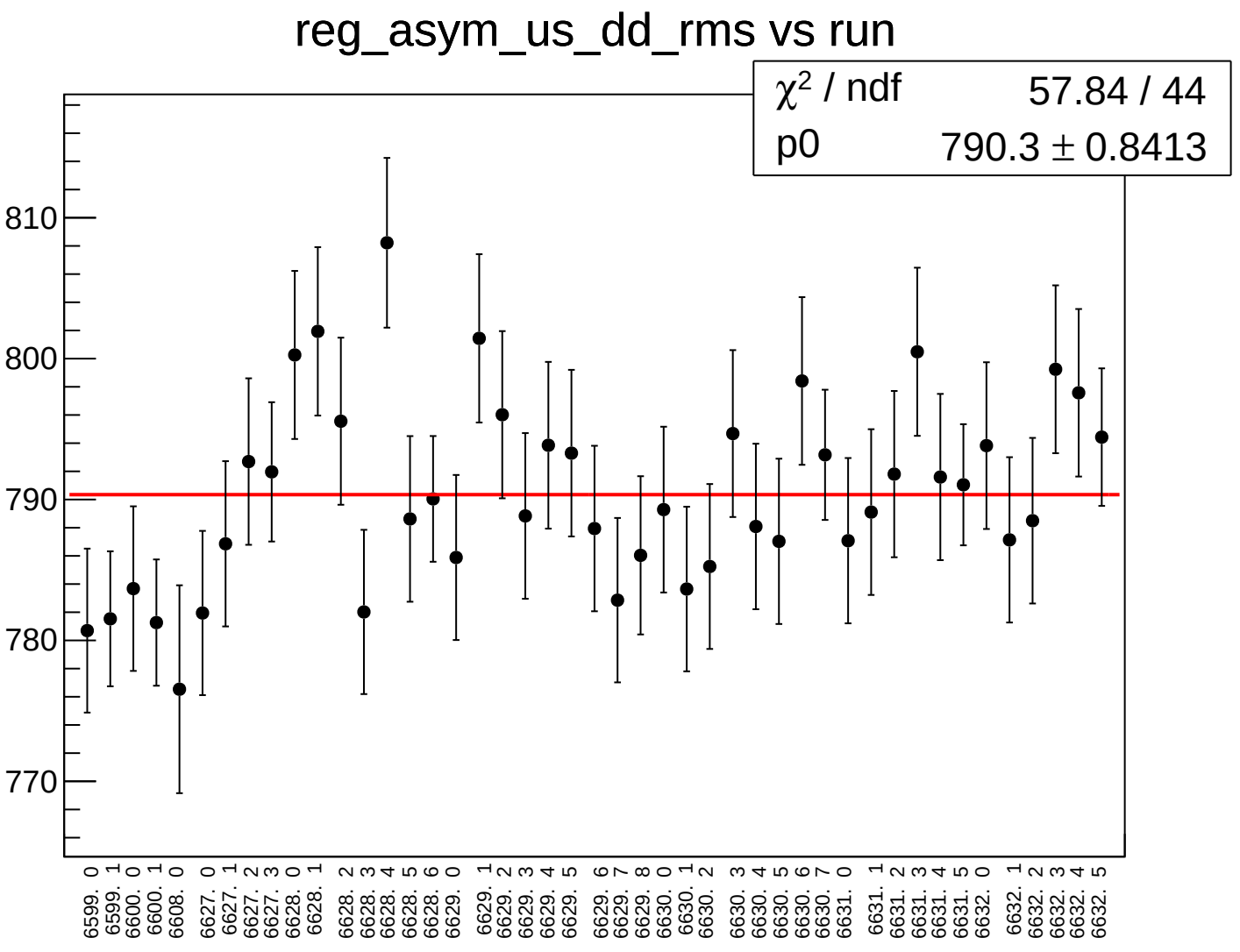
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −1.337
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean −0.01646
Std Dev 0.8773
9
8
7
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 57.84 / 44
p0 790.3 ± 0.8413
810
800
790
780
770
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
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6628. 6
6629. 0
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6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
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6630. 4
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6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
6631. 5
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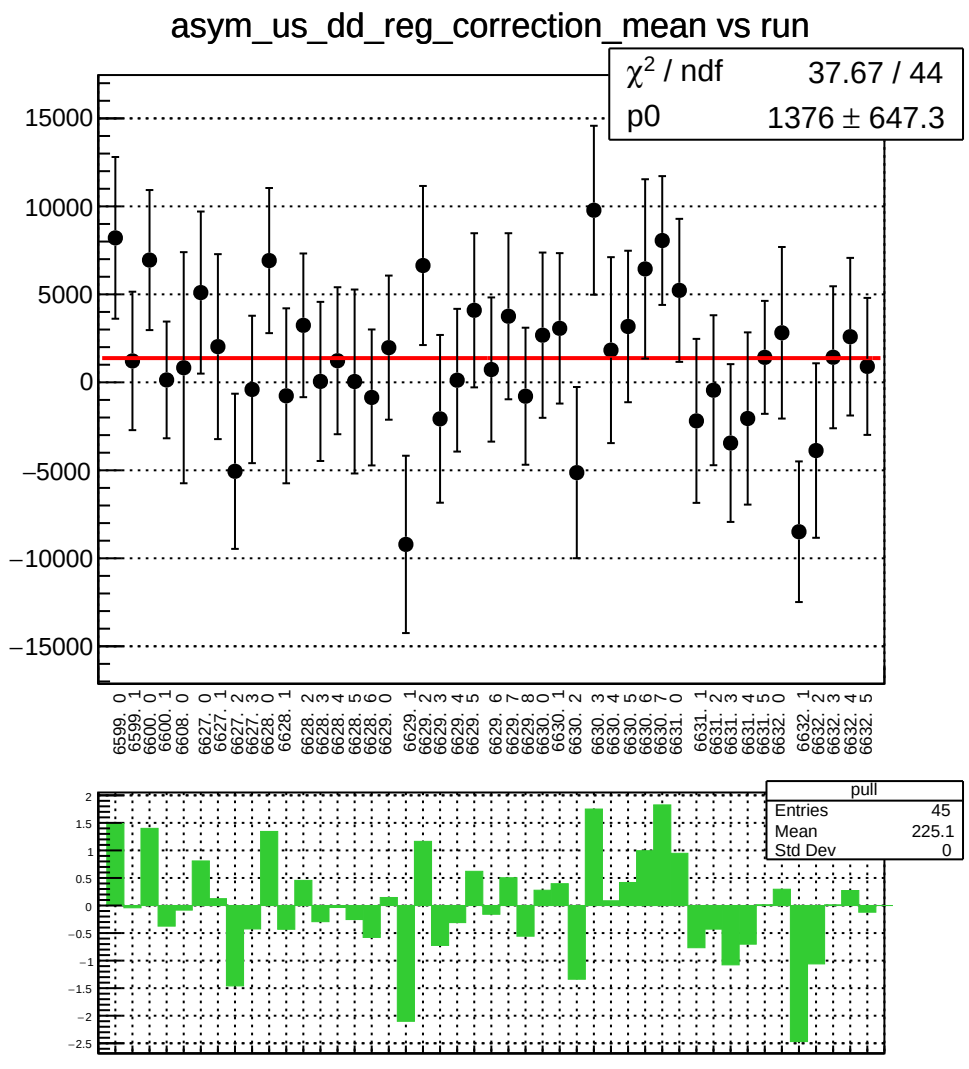
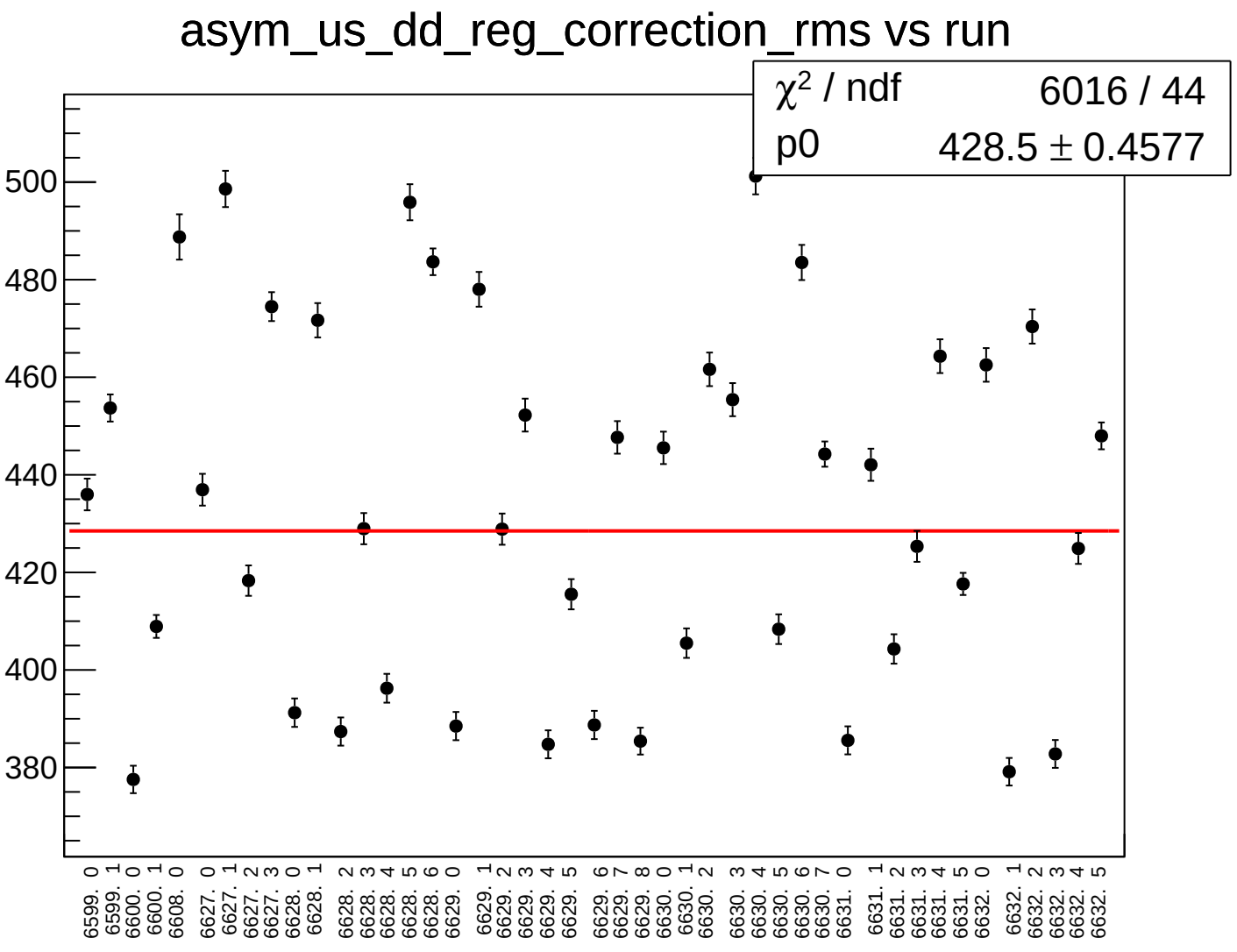
6632. 5


asym_us_dd_reg_correction_mean vs run
χ² / ndf 37.67 / 44
p0 1376 ± 647.3
15000
10000
5000
0
−5000
−10000
−15000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 225.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.009784
Std Dev 0.9149
9
8
7
6
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 6016 / 44
p0 428.5 ± 0.4577
500
480
460
440
420
400
380
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
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6632. 0
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6632. 2
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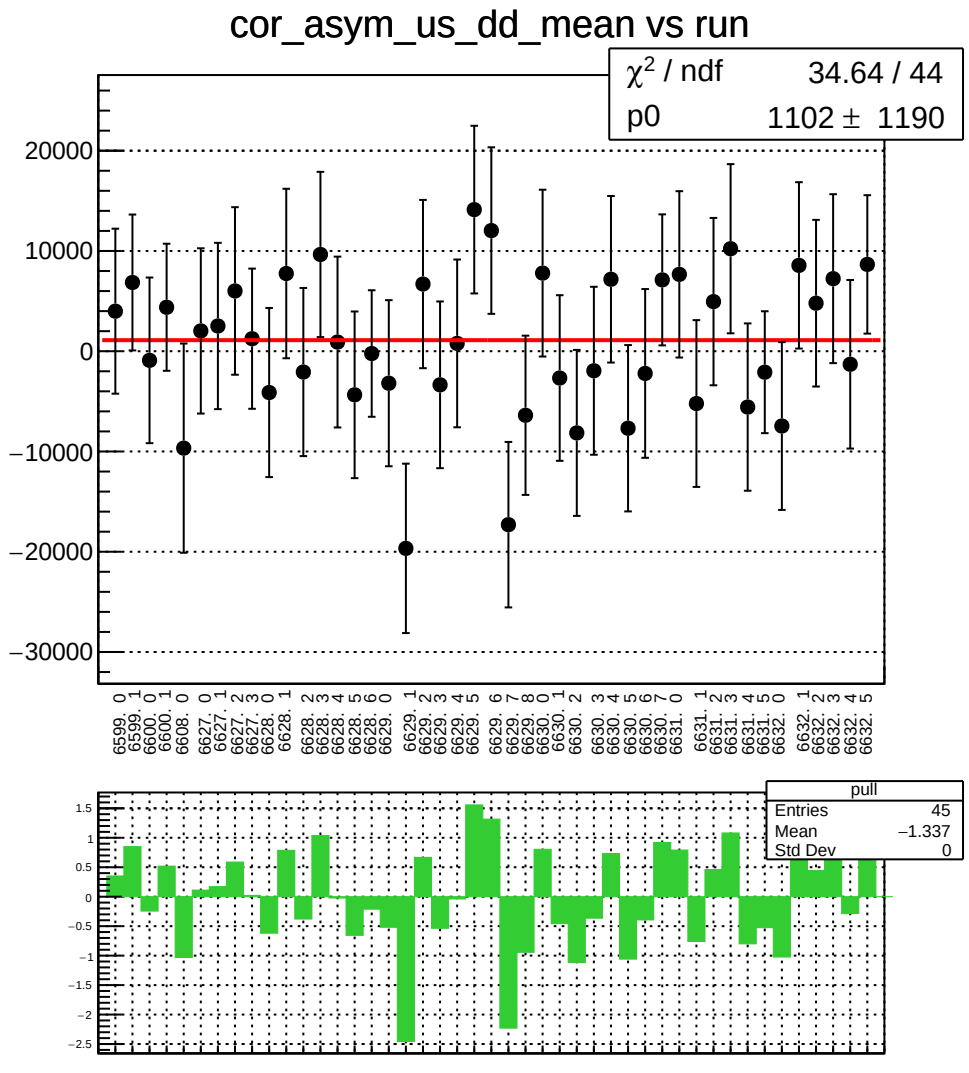
6632. 4
6632. 5


cor_asym_us_dd_mean vs run
χ² / ndf 34.64 / 44
p0 1102 ± 1190
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
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6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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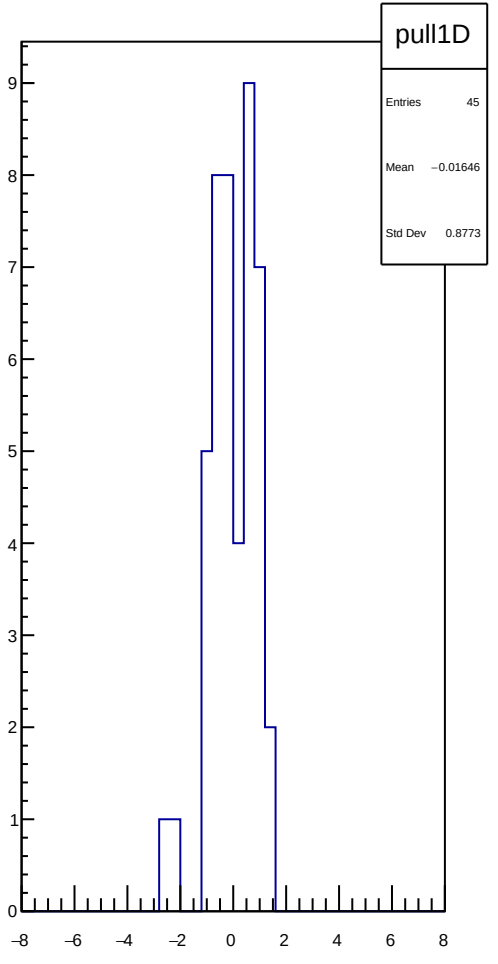
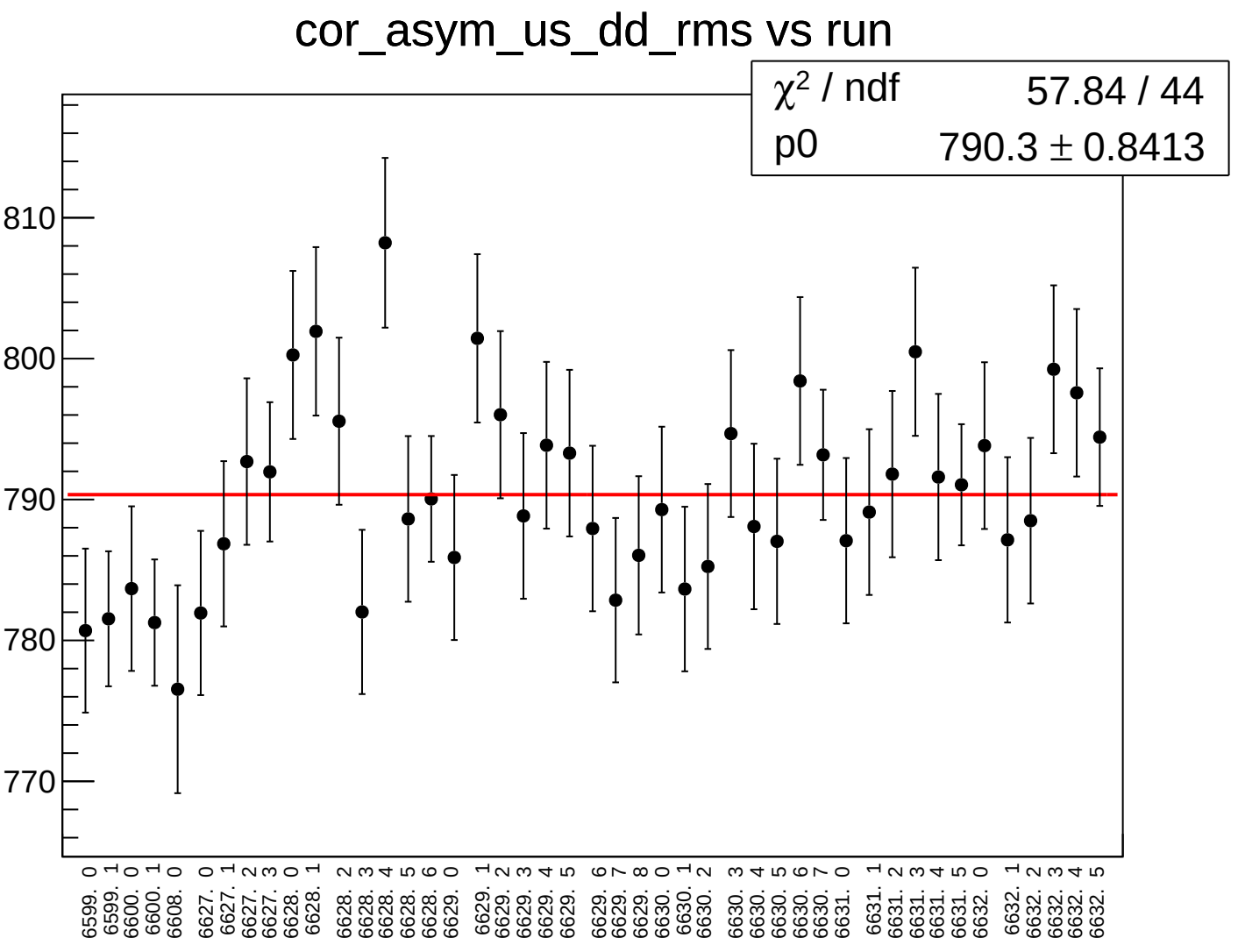
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −1.337
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean −0.01646
Std Dev 0.8773
9
8
7
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 57.84 / 44
p0 790.3 ± 0.8413
810
800
790
780
770
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 6
6629. 0
6629. 1
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6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6632. 0
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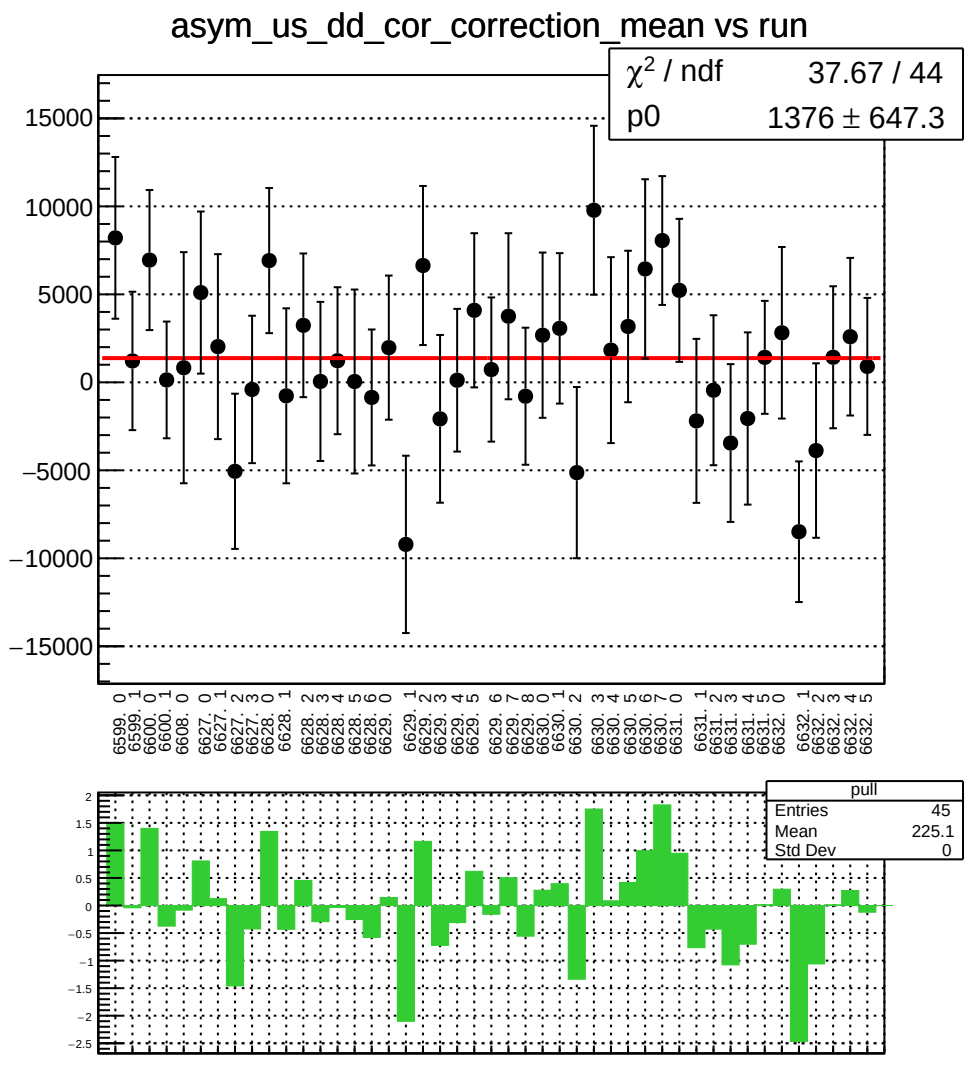
6632. 5


asym_us_dd_cor_correction_mean vs run
χ² / ndf 37.67 / 44
p0 1376 ± 647.3
15000
10000
5000
0
−5000
−10000
−15000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6629. 8
6630. 0
6630. 1
6630. 2
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6630. 4
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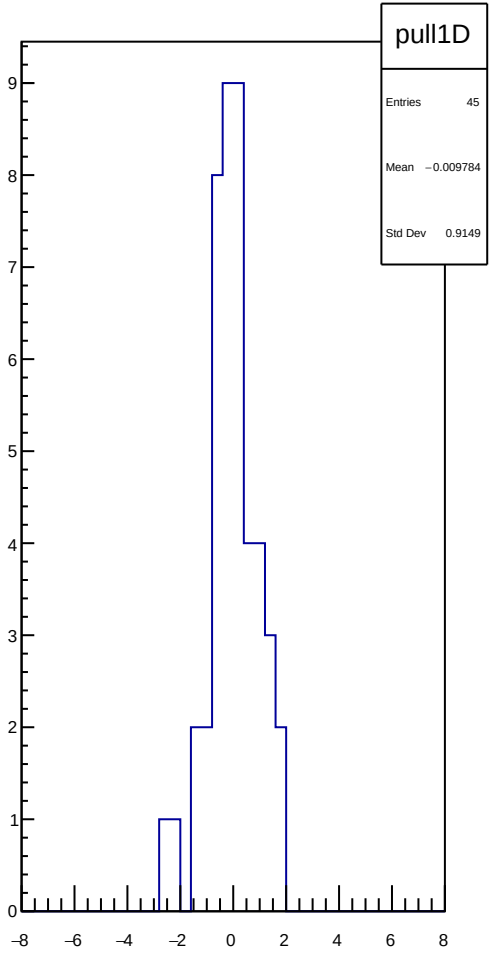
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 225.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean −0.009784
Std Dev 0.9149
9
8
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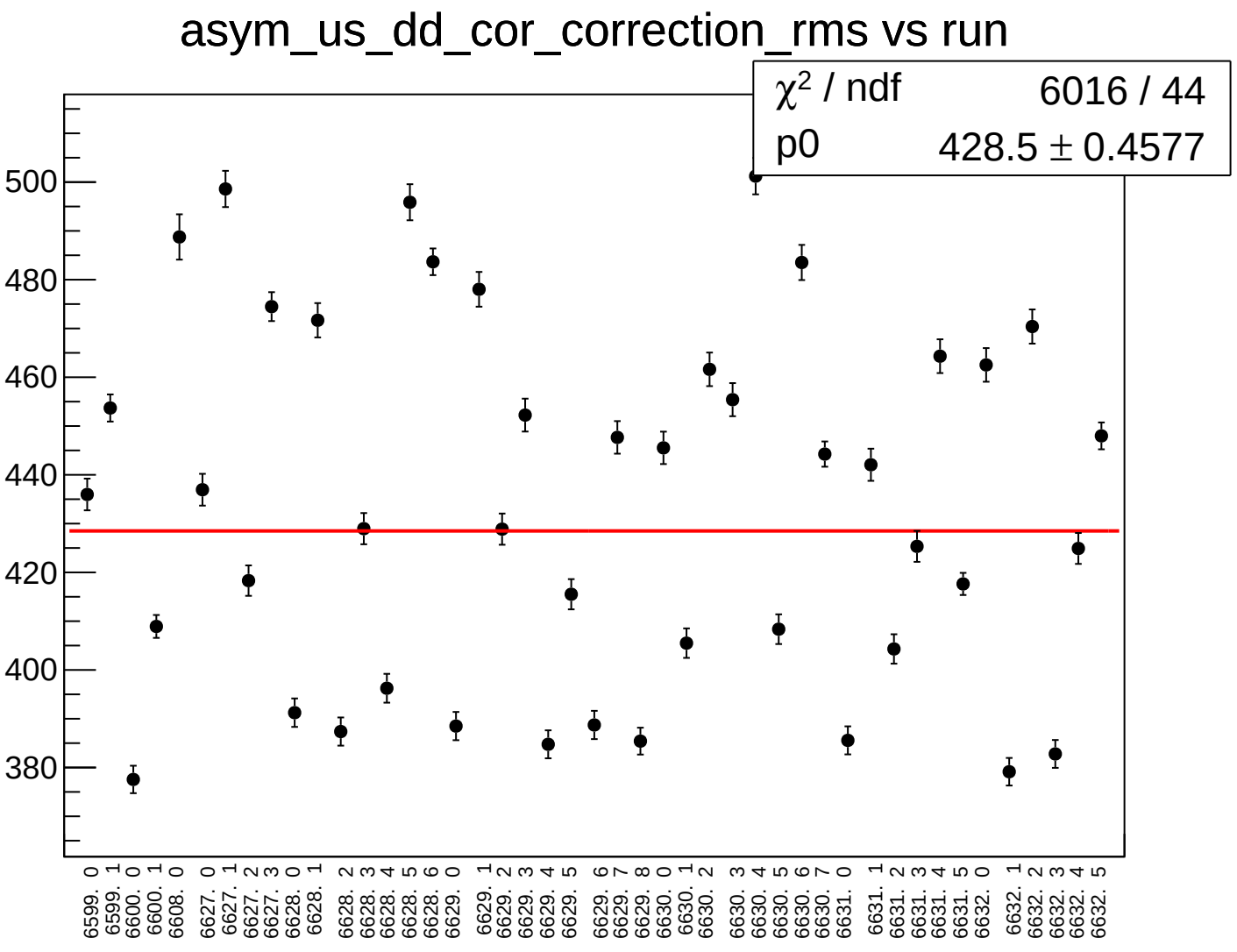
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_cor_correction_rms vs run
χ² / ndf 6016 / 44
p0 428.5 ± 0.4577
500
480
460
440
420
400
380
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
6628. 3
6628. 4
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6628. 6
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6629. 8
6630. 0
6630. 1
6630. 2
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6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6632. 2
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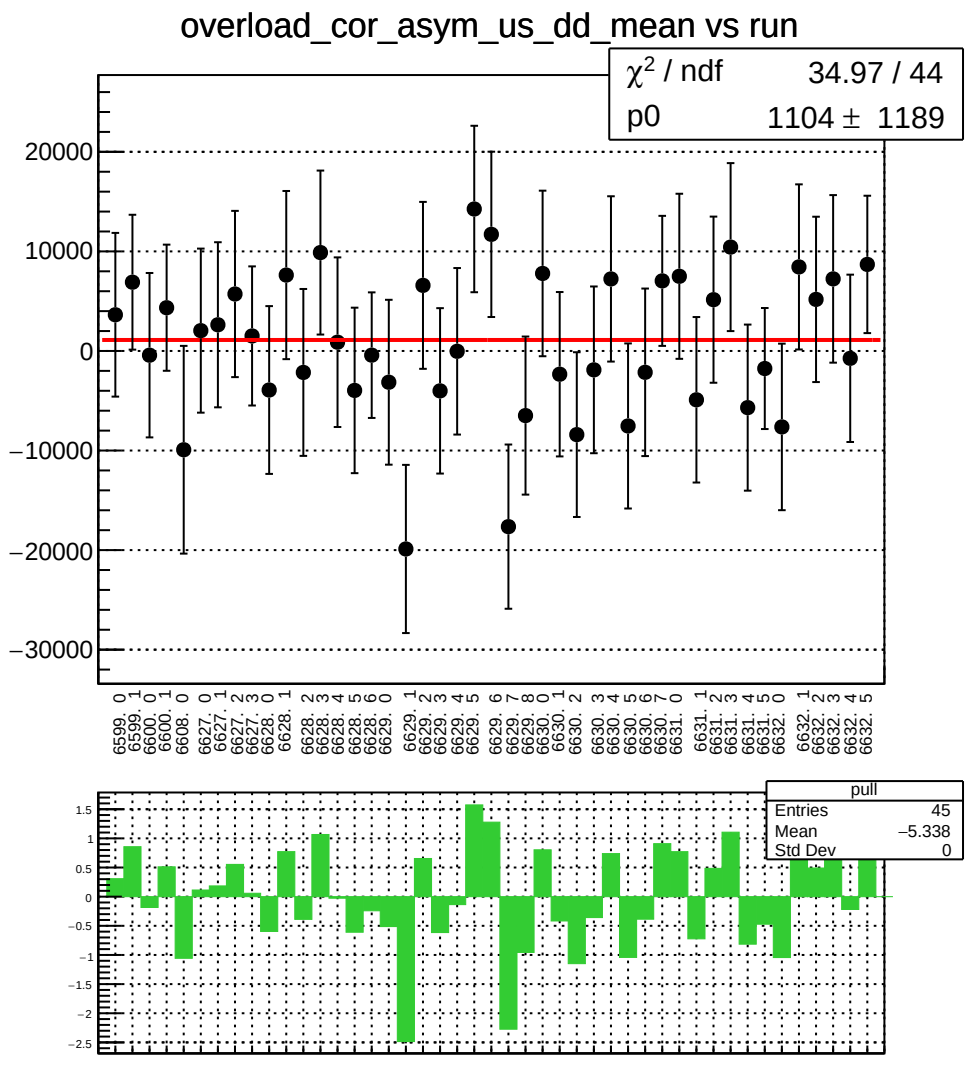
6632. 4
6632. 5


overload_cor_asym_us_dd_mean vs run
χ² / ndf 34.97 / 44
p0 1104 ± 1189
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
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6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −5.338
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.01694
Std Dev 0.8813
9
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5
4
3
2
1
0
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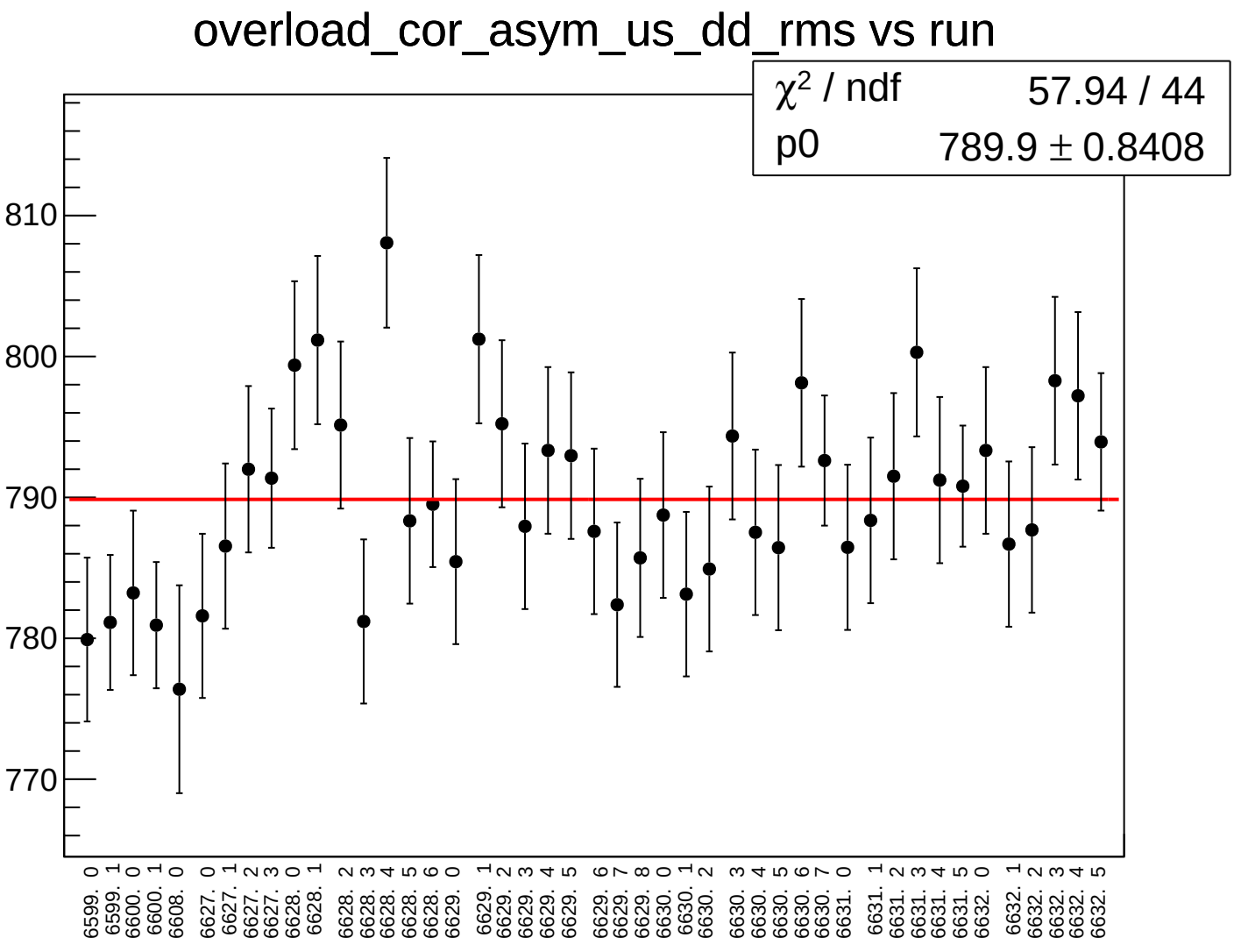
−6
−4
−2
0
2
4
6
8


overload_cor_asym_us_dd_rms vs run
χ² / ndf 57.94 / 44
p0 789.9 ± 0.8408
810
800
790
780
770
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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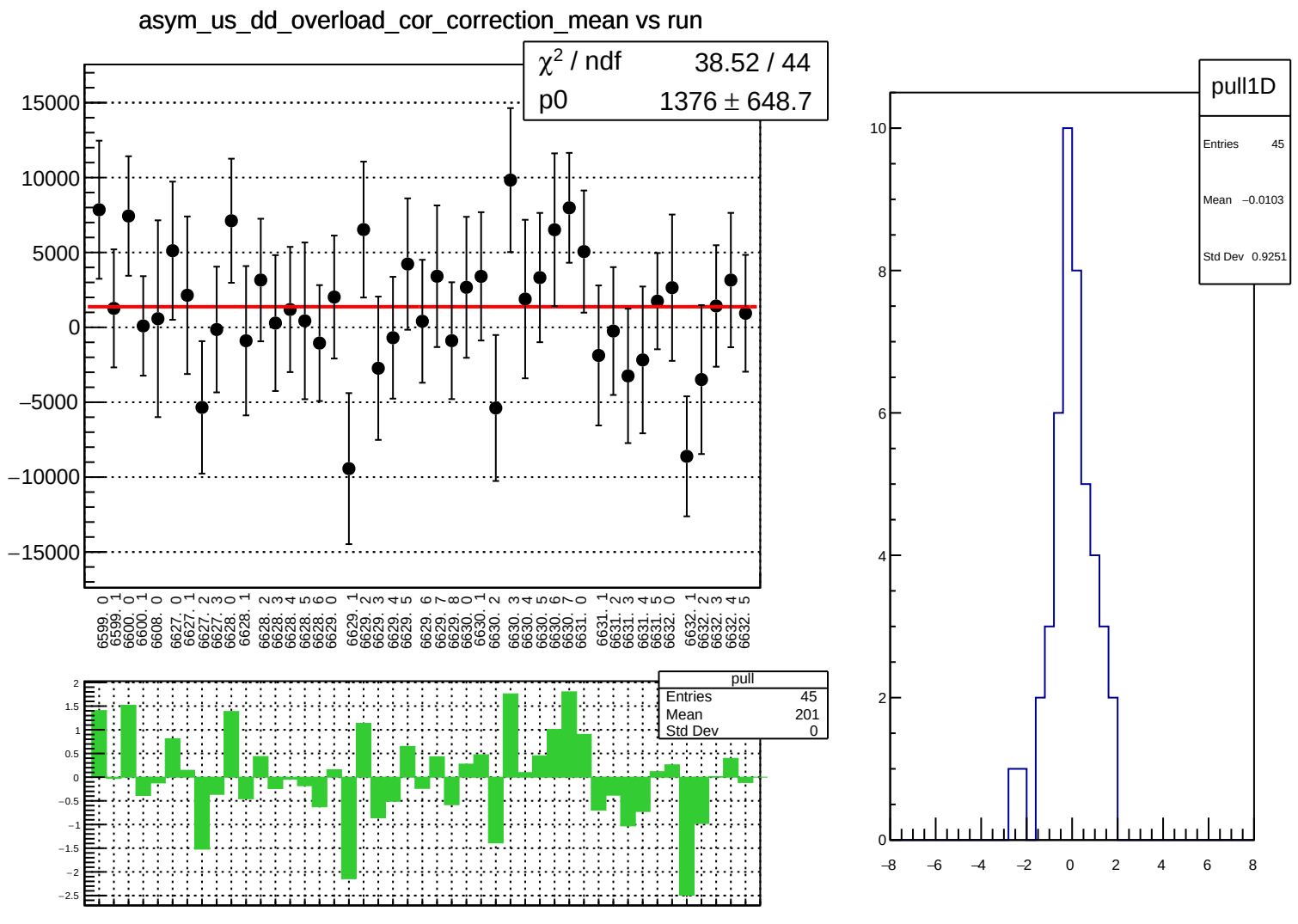
6632. 5


asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 38.52 / 44
p0 1376 ± 648.7
15000
10000
5000
0
−5000
−10000
−15000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6630. 6
6630. 7
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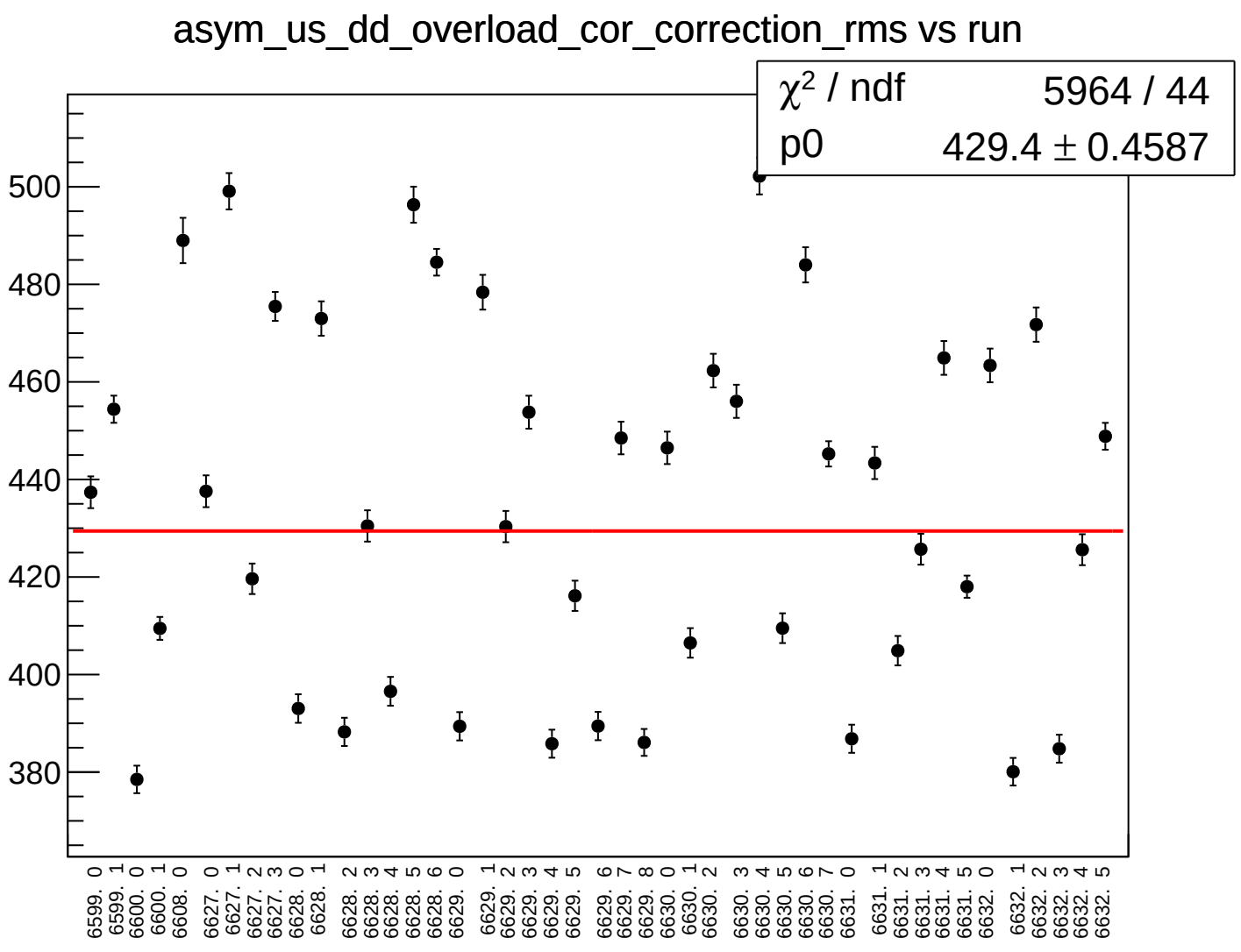
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 201
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.0103
Std Dev 0.9251
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 5964 / 44
p0 429.4 ± 0.4587
500
480
460
440
420
400
380
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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6627. 2
6627. 3
6628. 0
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6629. 7
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6630. 5
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6630. 7
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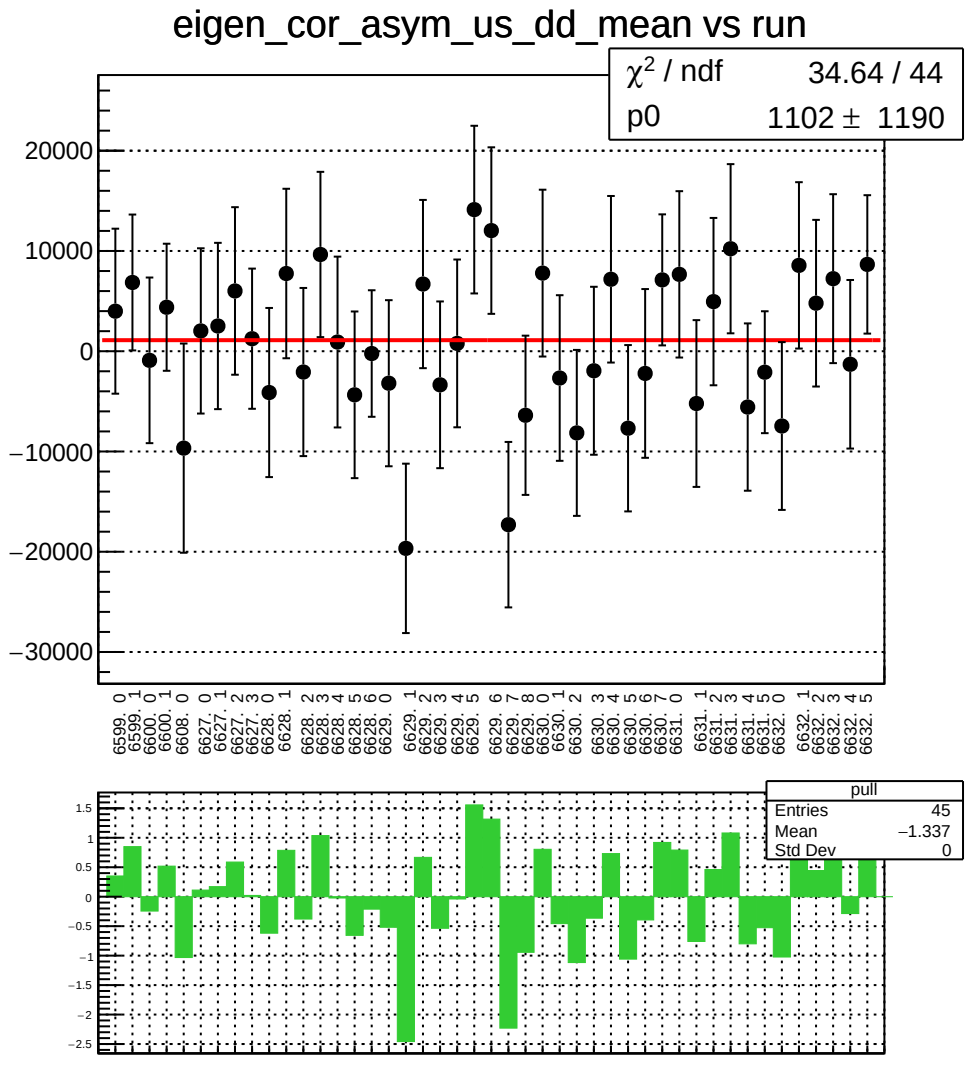
6632. 4
6632. 5


eigen_cor_asym_us_dd_mean vs run
χ² / ndf 34.64 / 44
p0 1102 ± 1190
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
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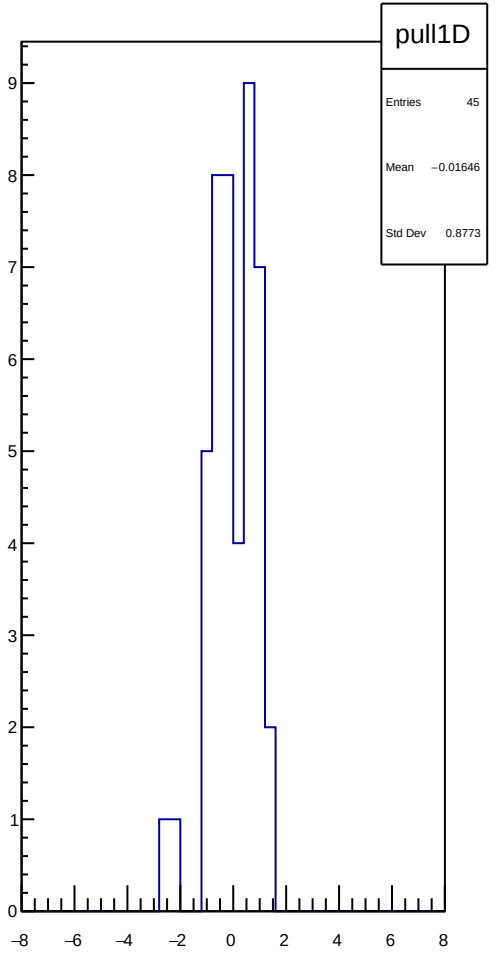
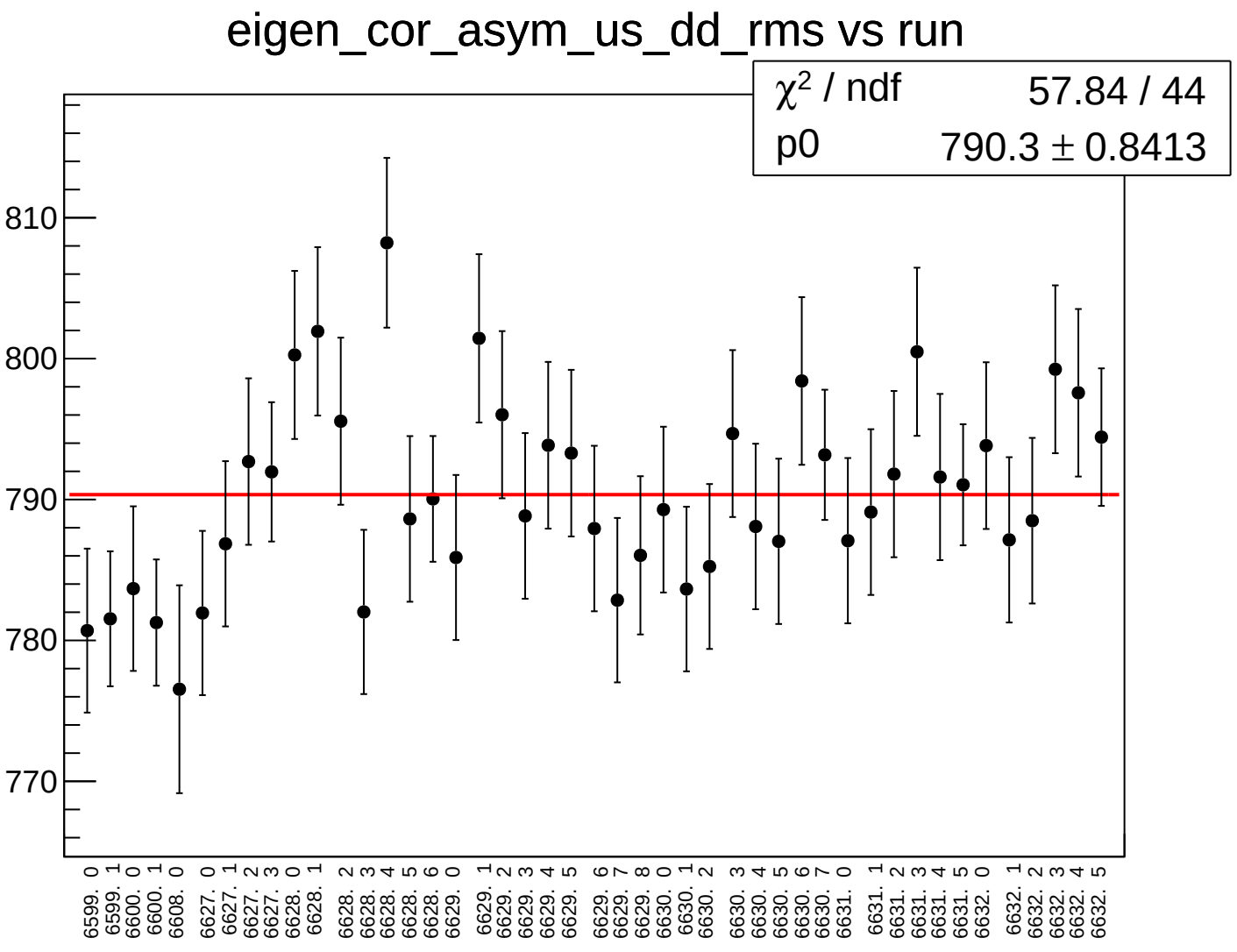
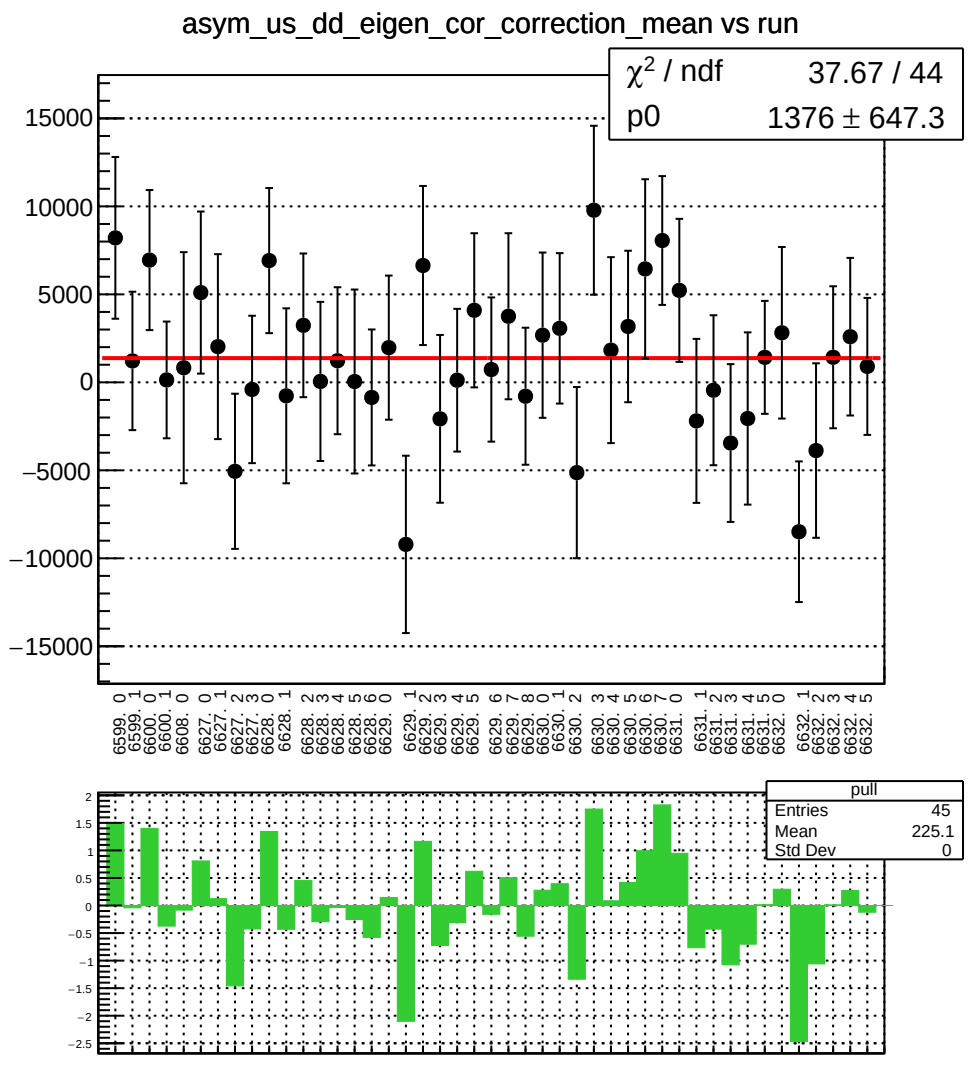
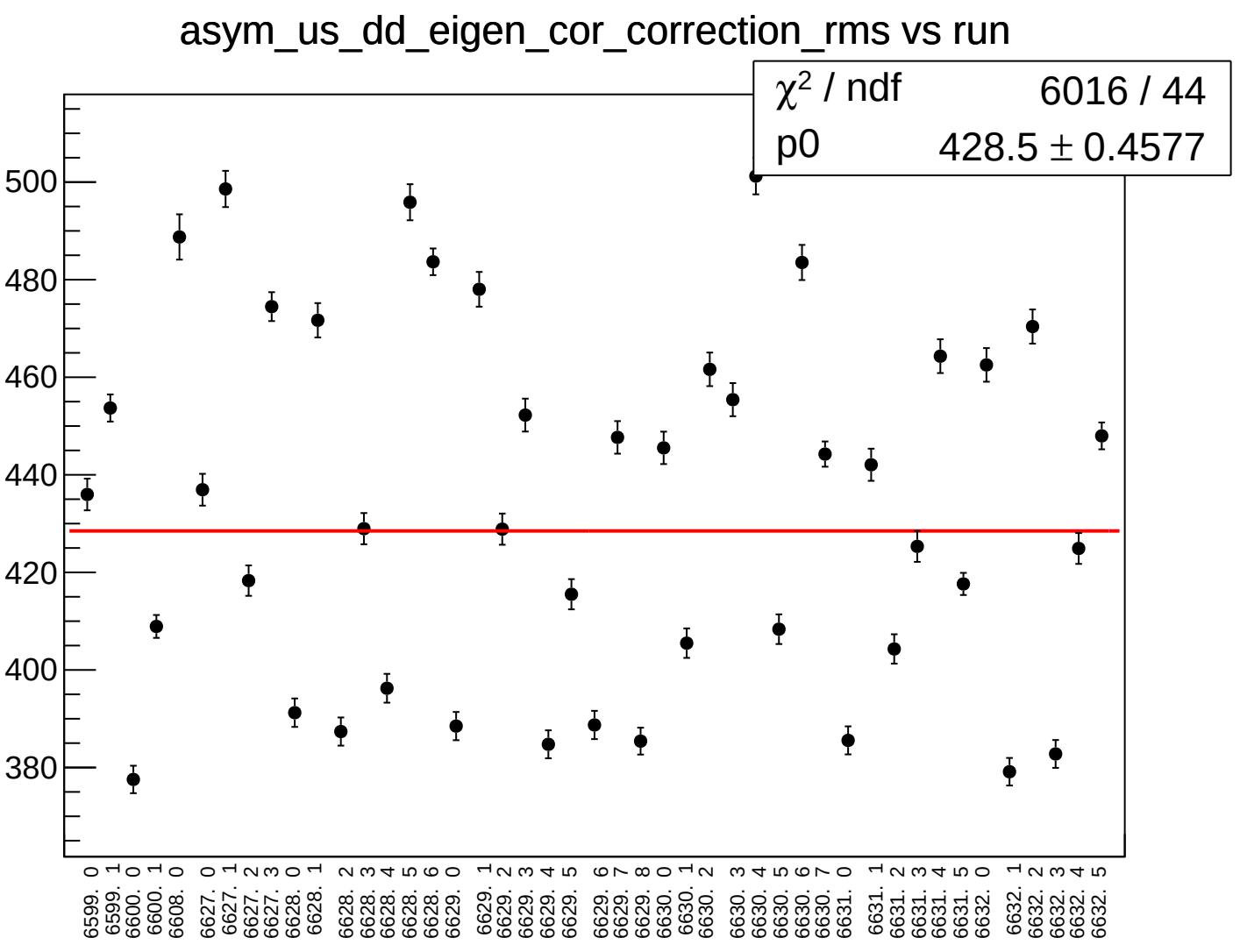
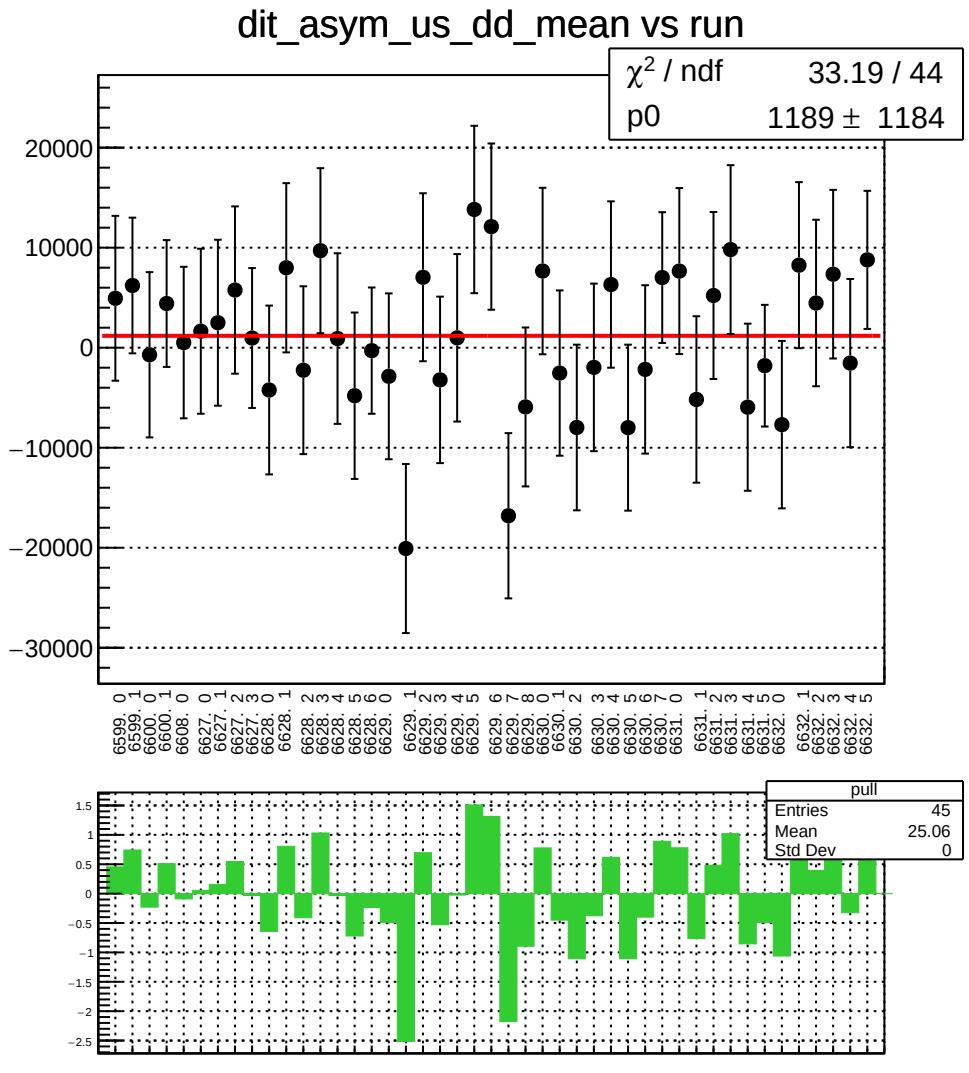
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −1.337
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

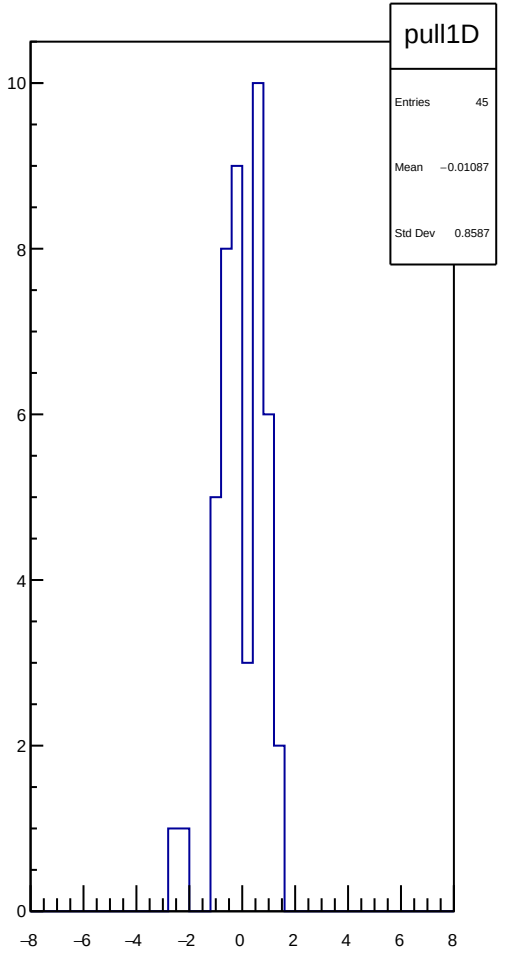

pull1D
Entries 45
Mean −0.01646
Std Dev 0.8773
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

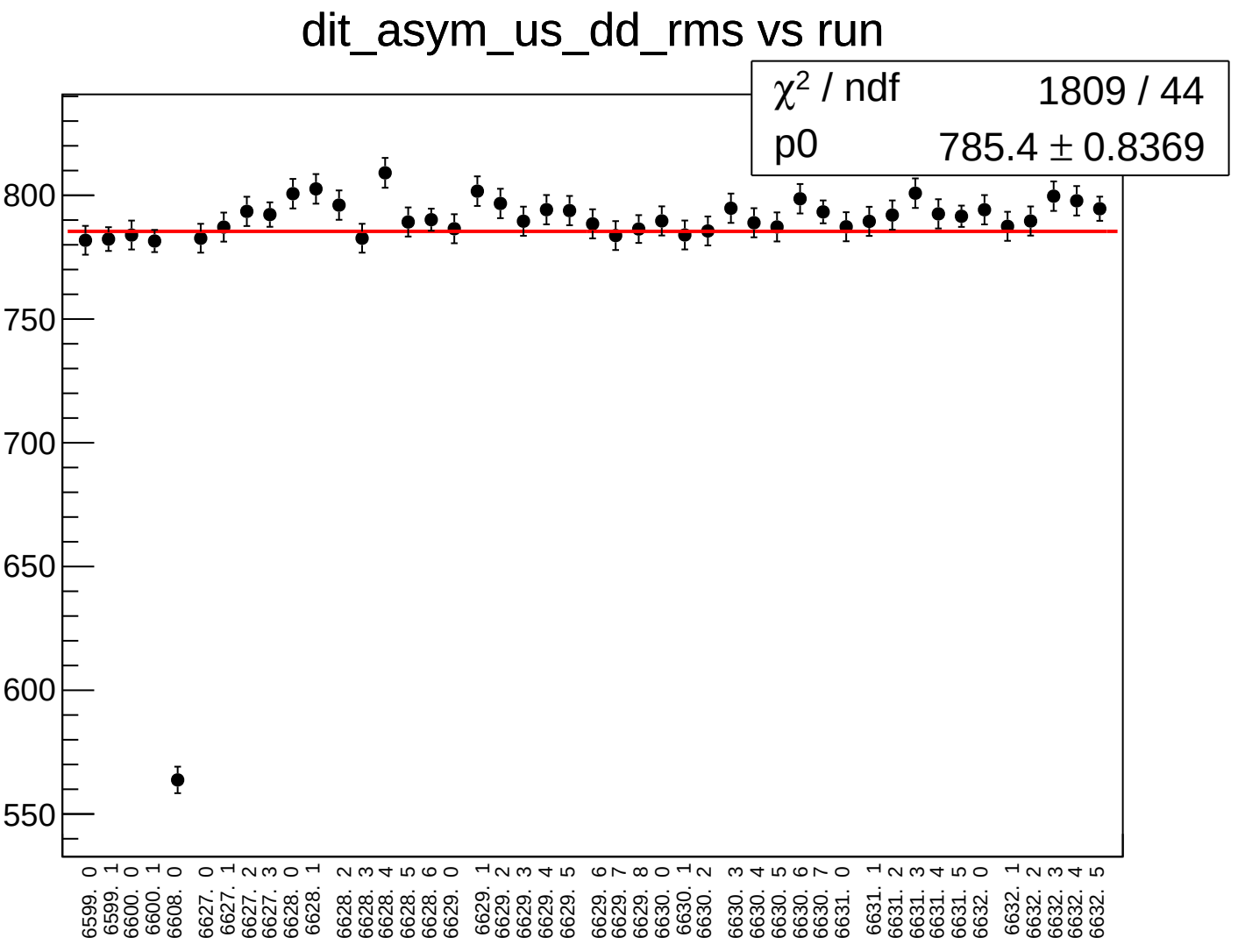

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 57.84 / 44
p0 790.3 ± 0.8413
810
800
790
780
770
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

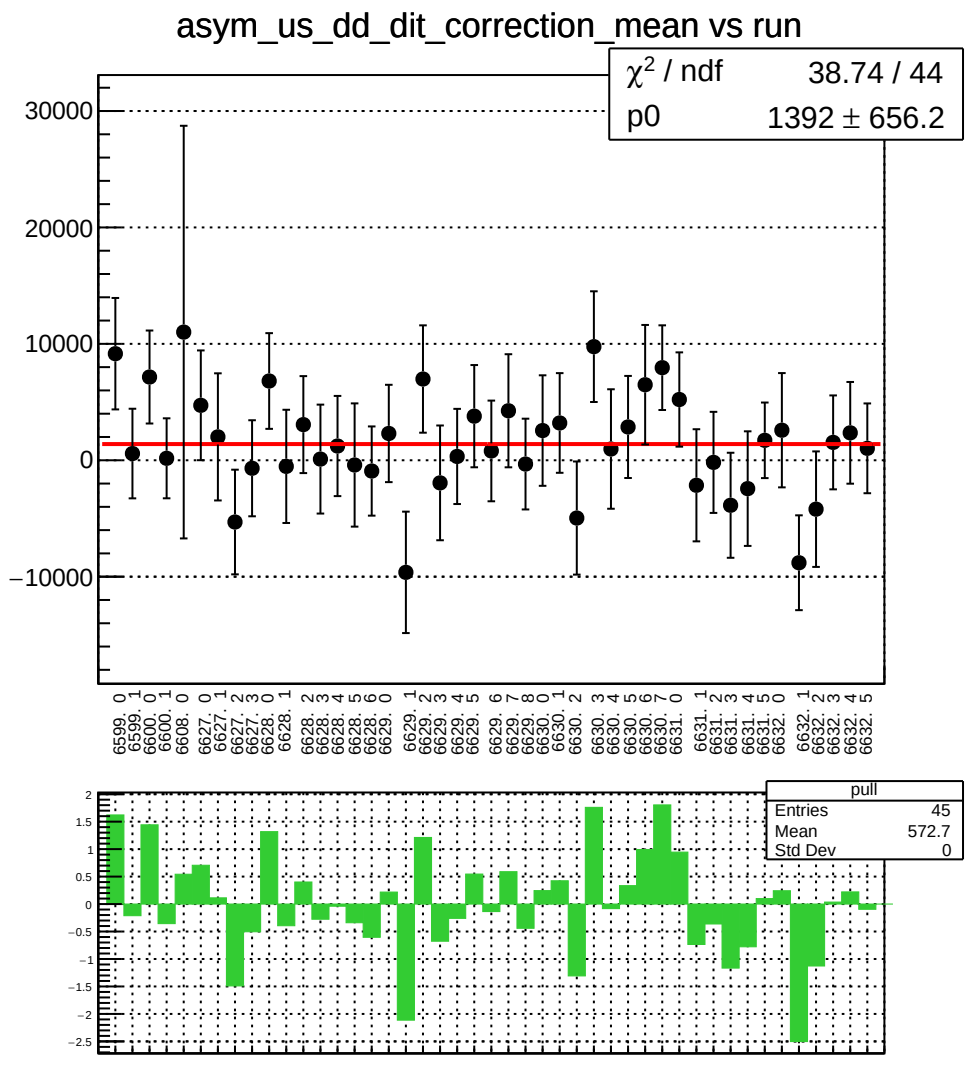

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 37.67 / 44
p0 1376 ± 647.3
15000
10000
5000
0
−5000
−10000
−15000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 225.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.009784
Std Dev 0.9149
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

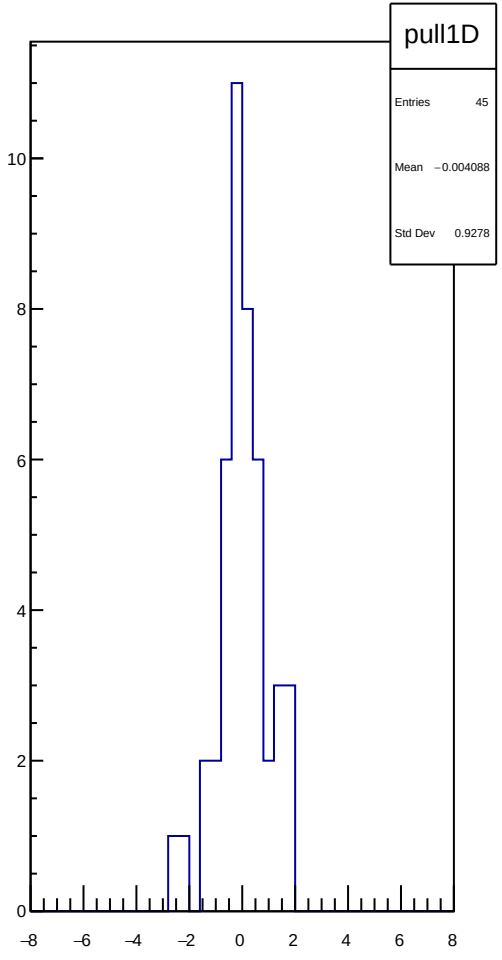

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 6016 / 44
p0 428.5 ± 0.4577
500
480
460
440
420
400
380
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

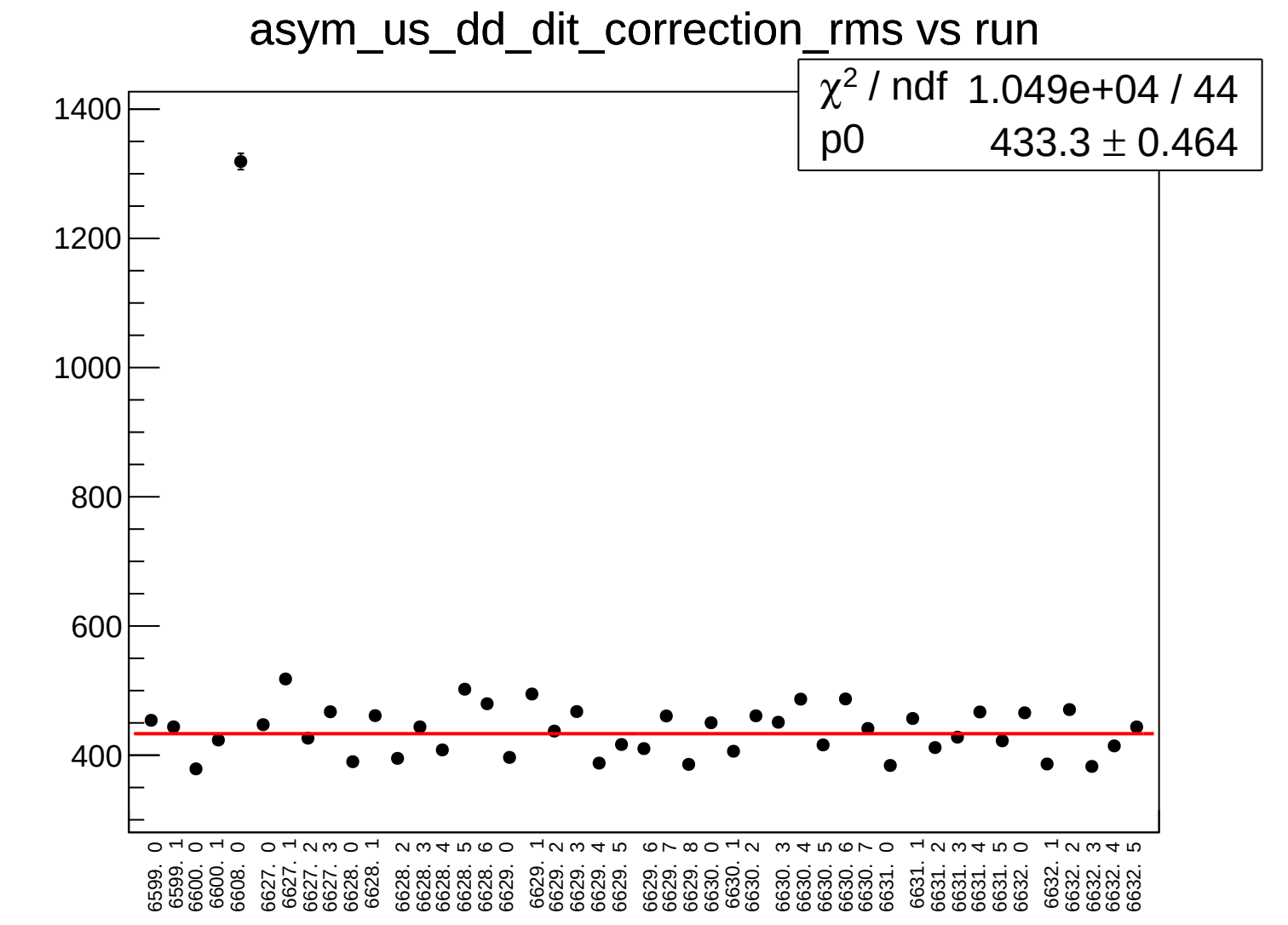

dit_asym_us_dd_mean vs run
χ² / ndf 33.19 / 44
p0 1189 ± 1184
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 25.06
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

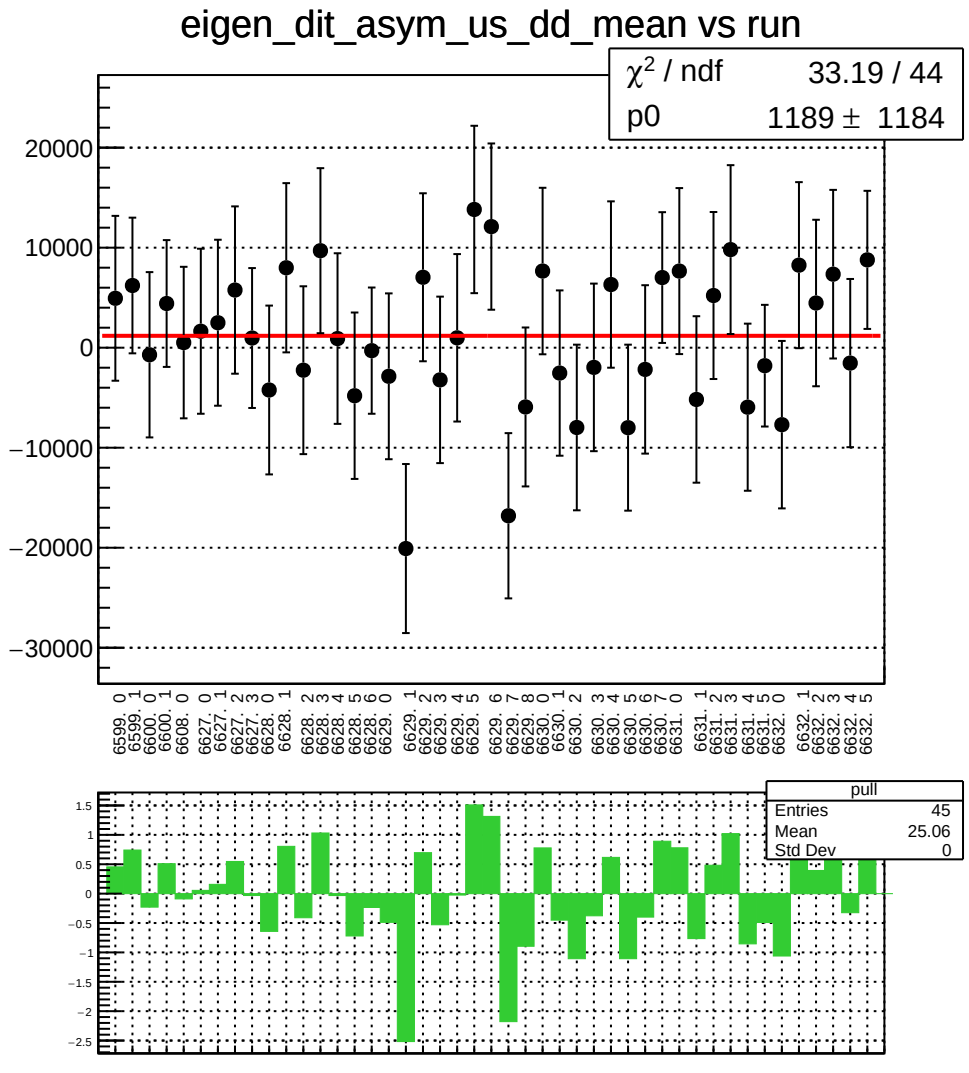

pull1D
Entries 45
Mean −0.01087
Std Dev 0.8587
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

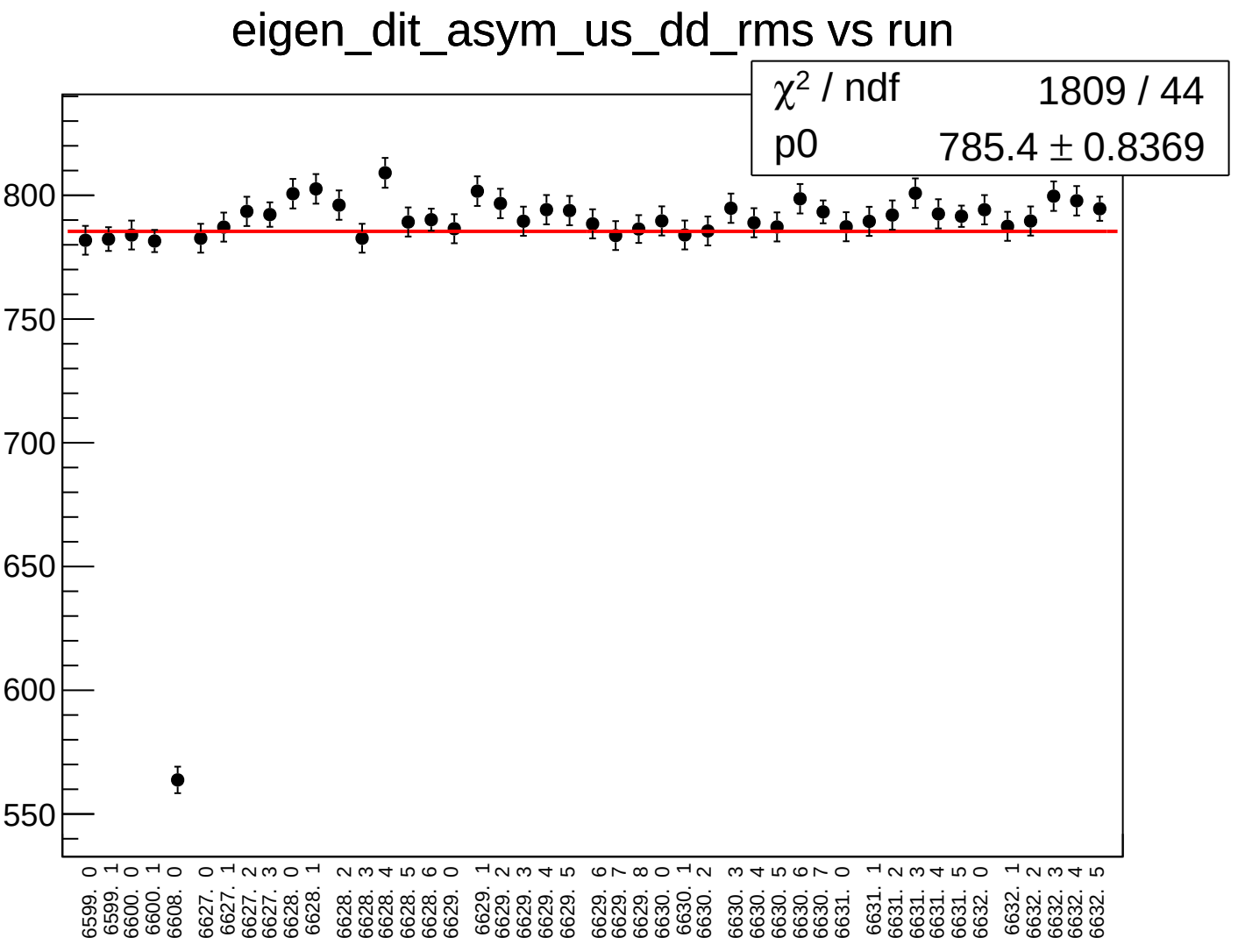

dit_asym_us_dd_rms vs run
χ² / ndf 1809 / 44
p0 785.4 ± 0.8369
800
750
700
650
600
550
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

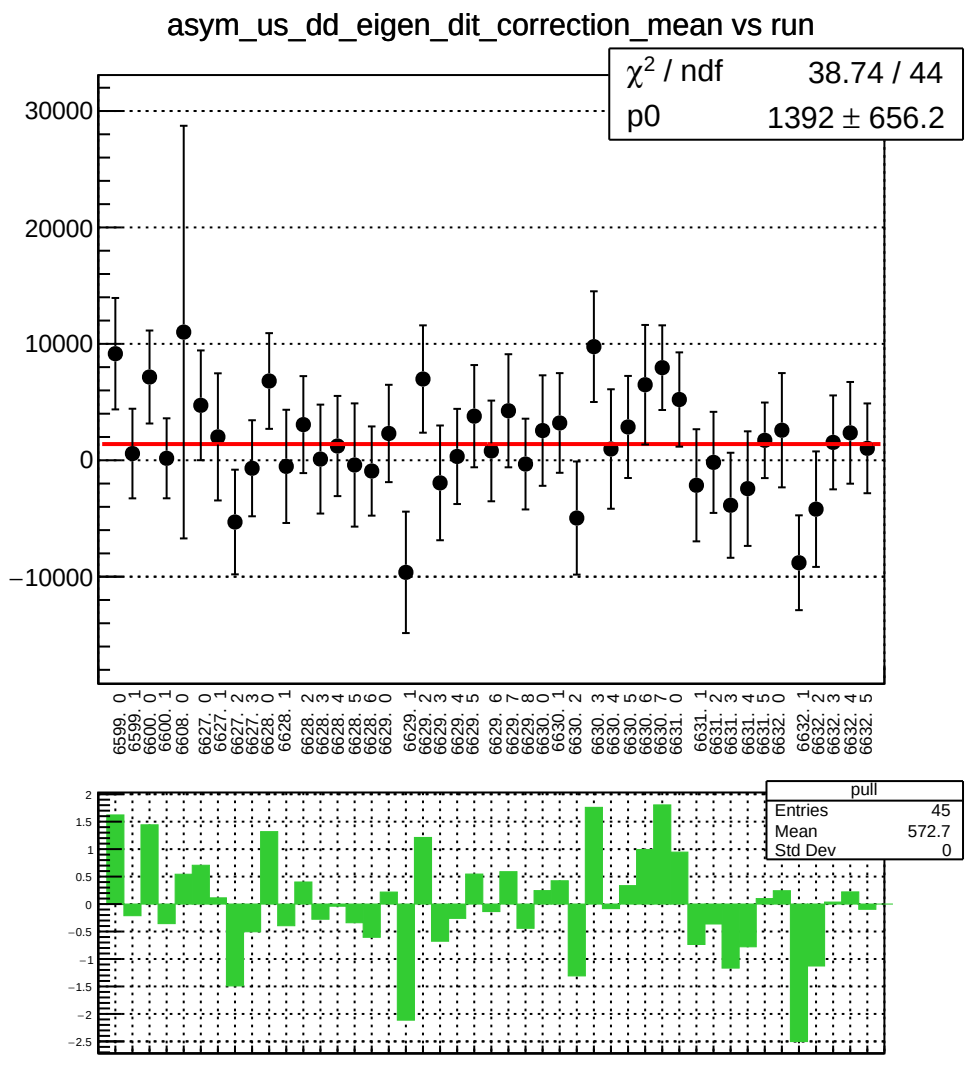

asym_us_dd_dit_correction_mean vs run
χ² / ndf 38.74 / 44
p0 1392 ± 656.2
30000
20000
10000
0
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 572.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean −0.004088
Std Dev 0.9278
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_dit_correction_rms vs run
χ² / ndf 1.049e+04 / 44
p0 433.3 ± 0.464
1400
1200
1000
800
600
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_us_dd_mean vs run
χ² / ndf 33.19 / 44
p0 1189 ± 1184
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 25.06
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.01087
Std Dev 0.8587
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_us_dd_rms vs run
χ² / ndf 1809 / 44
p0 785.4 ± 0.8369
800
750
700
650
600
550
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 38.74 / 44
p0 1392 ± 656.2
30000
20000
10000
0
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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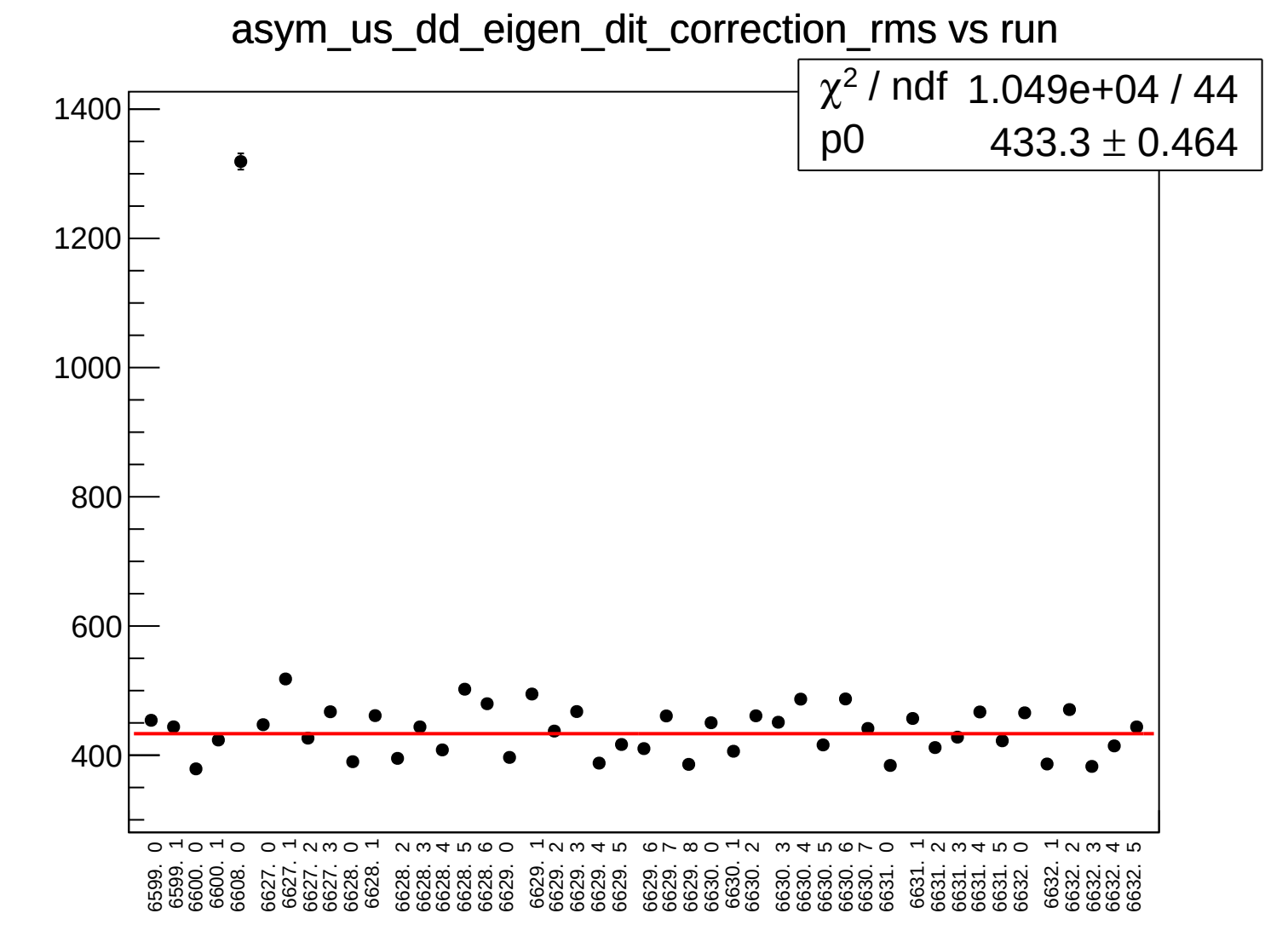
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 572.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.004088
Std Dev 0.9278
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.049e+04 / 44
p0 433.3 ± 0.464
1400
1200
1000
800
600
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 4
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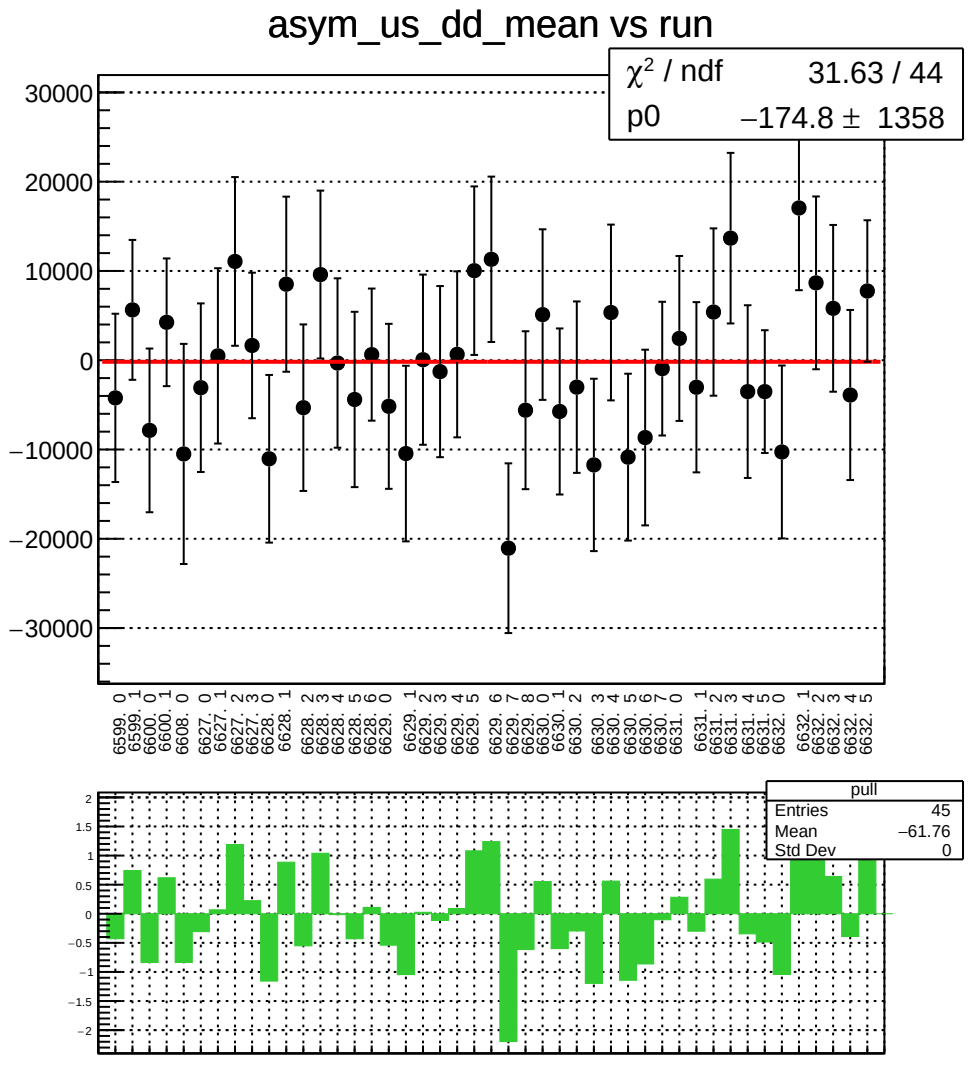
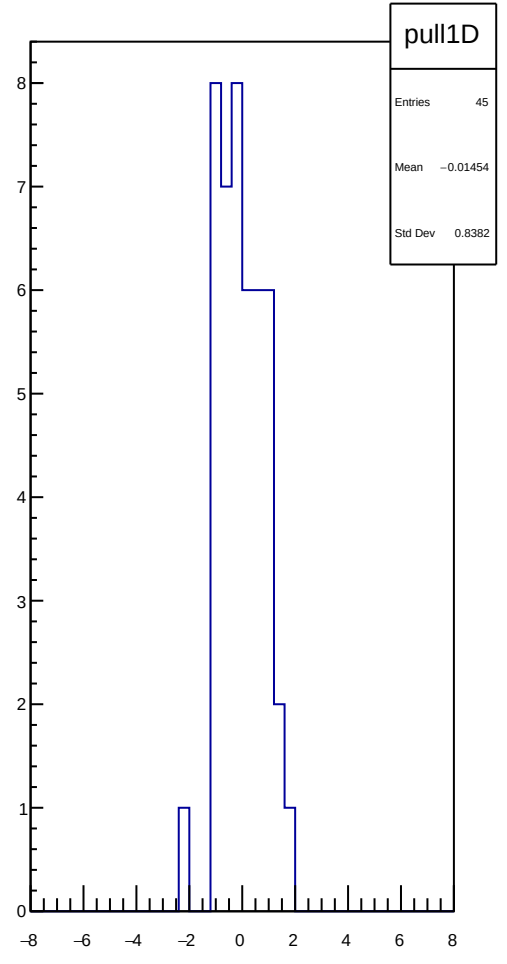
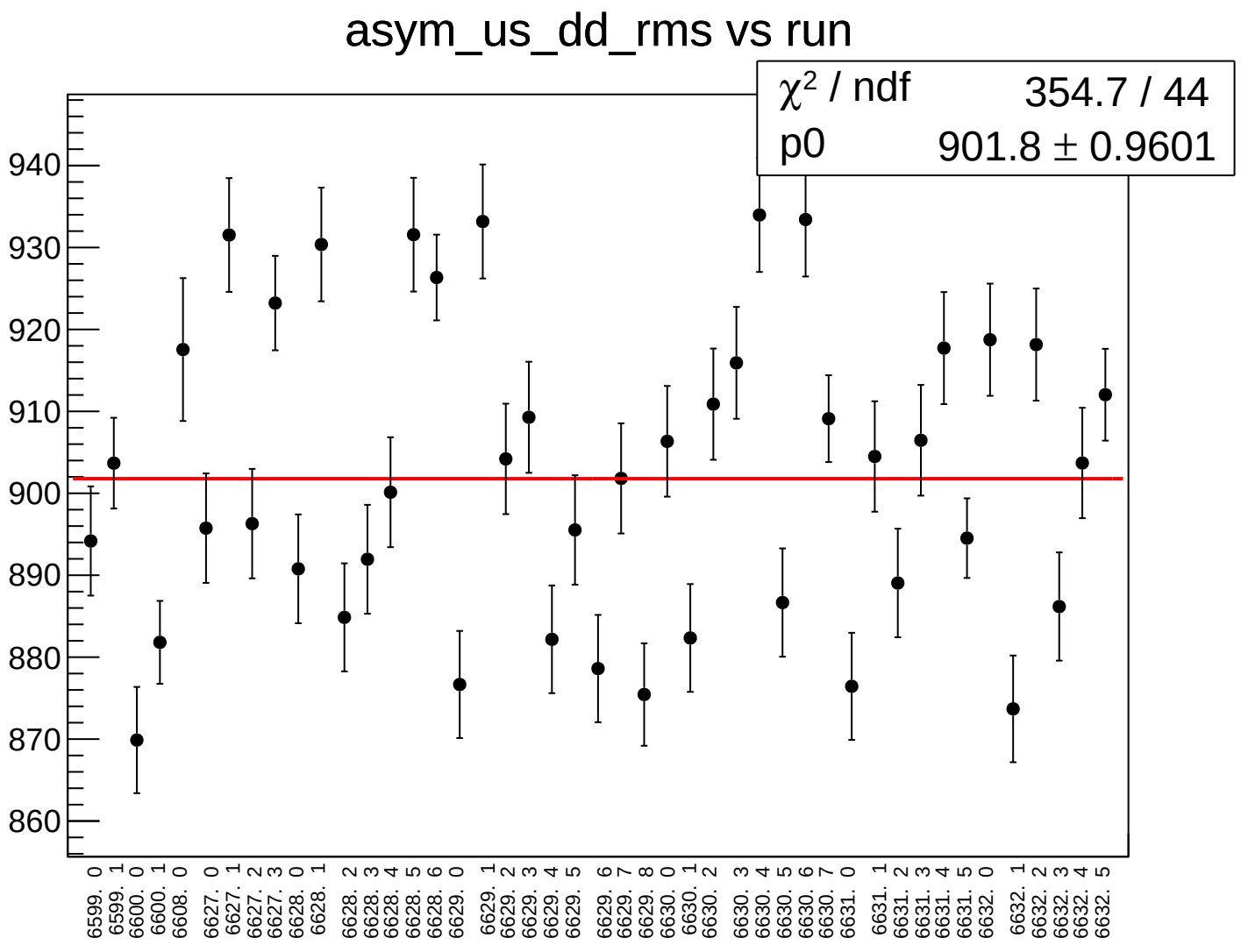
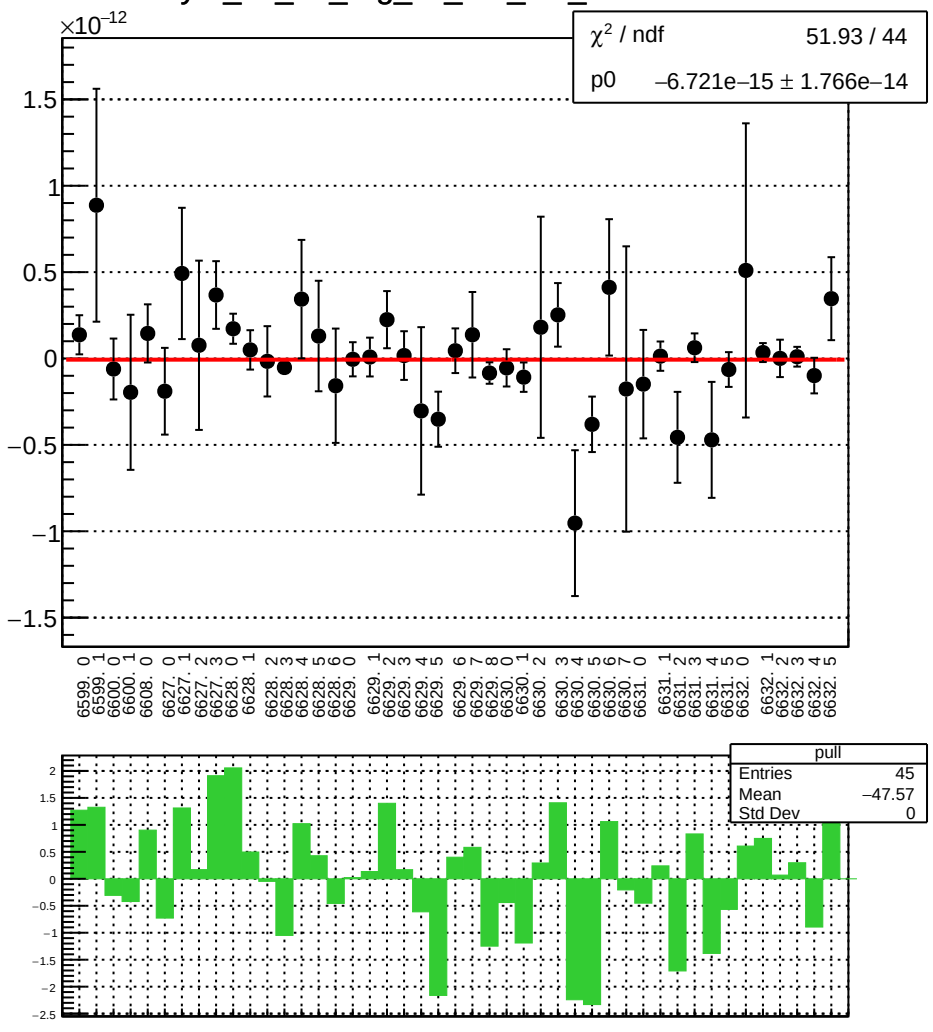
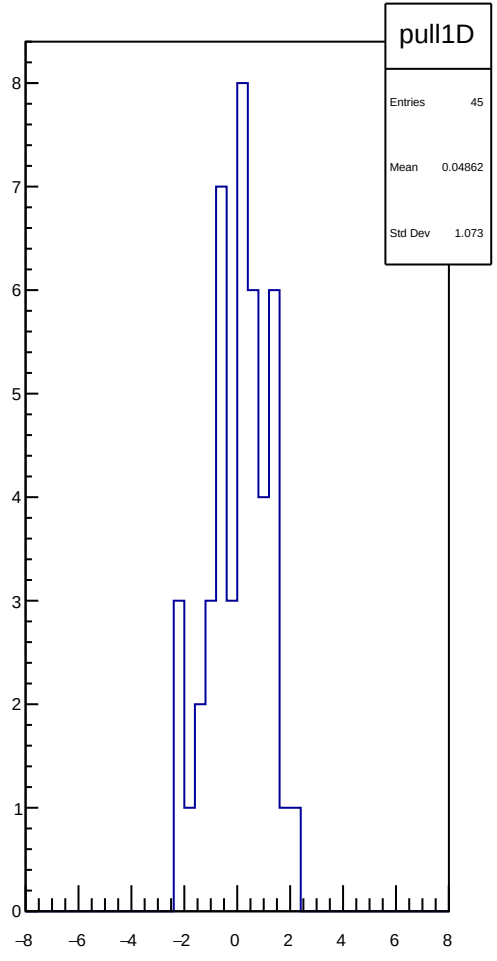
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

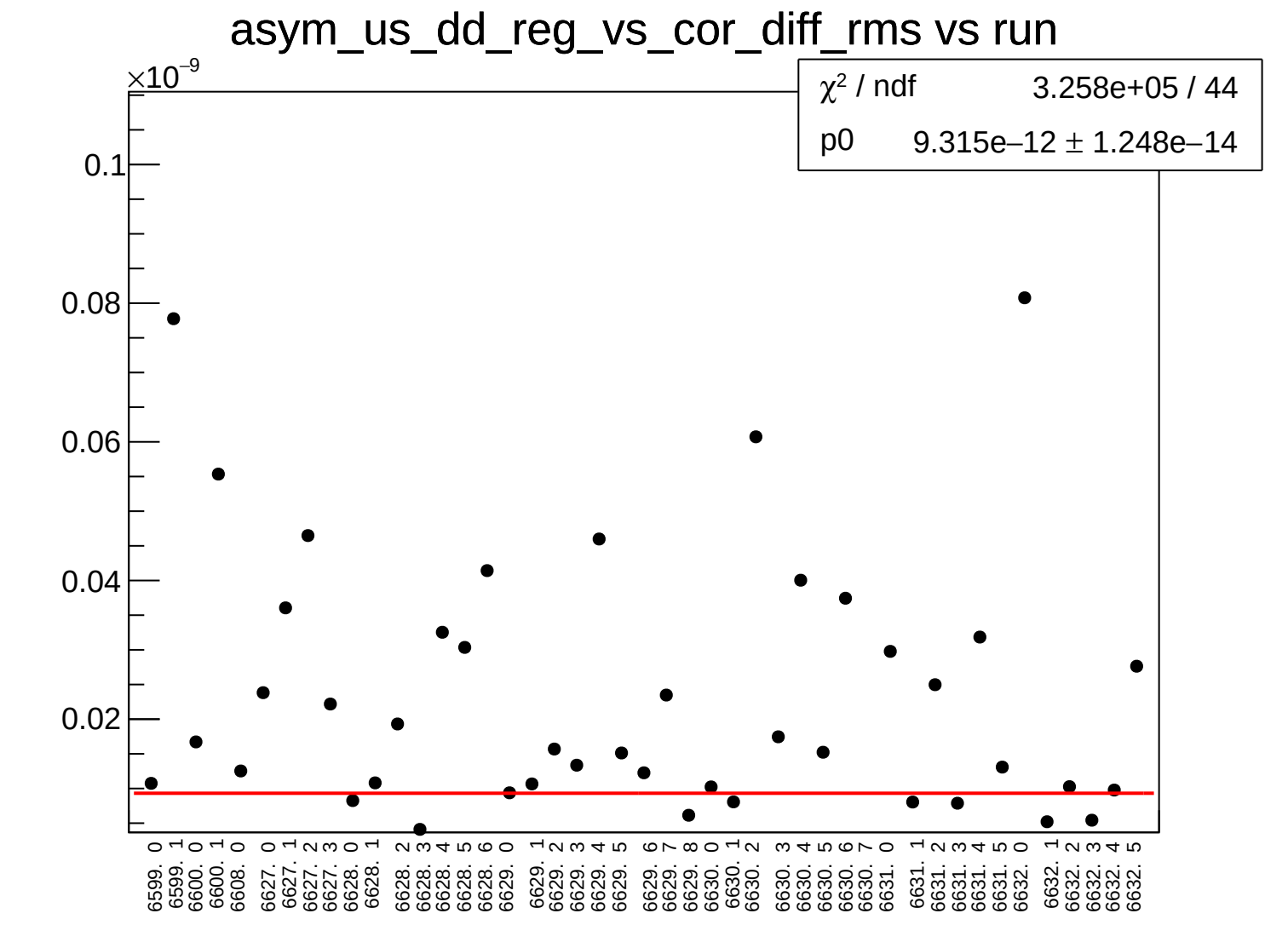

asym_us_dd_mean vs run
χ² / ndf 31.63 / 44
p0 −174.8 ± 1358
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −61.76
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

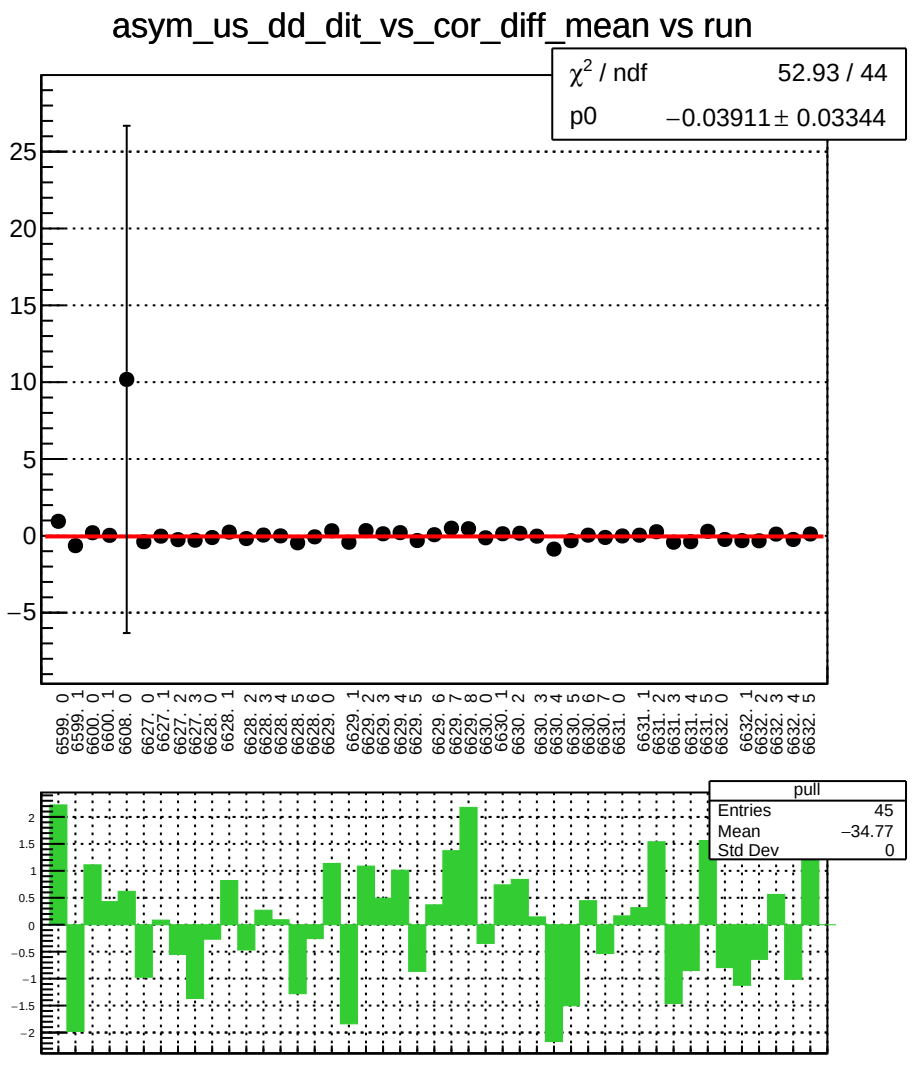

pull1D
Entries 45
Mean −0.01454
Std Dev 0.8382
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

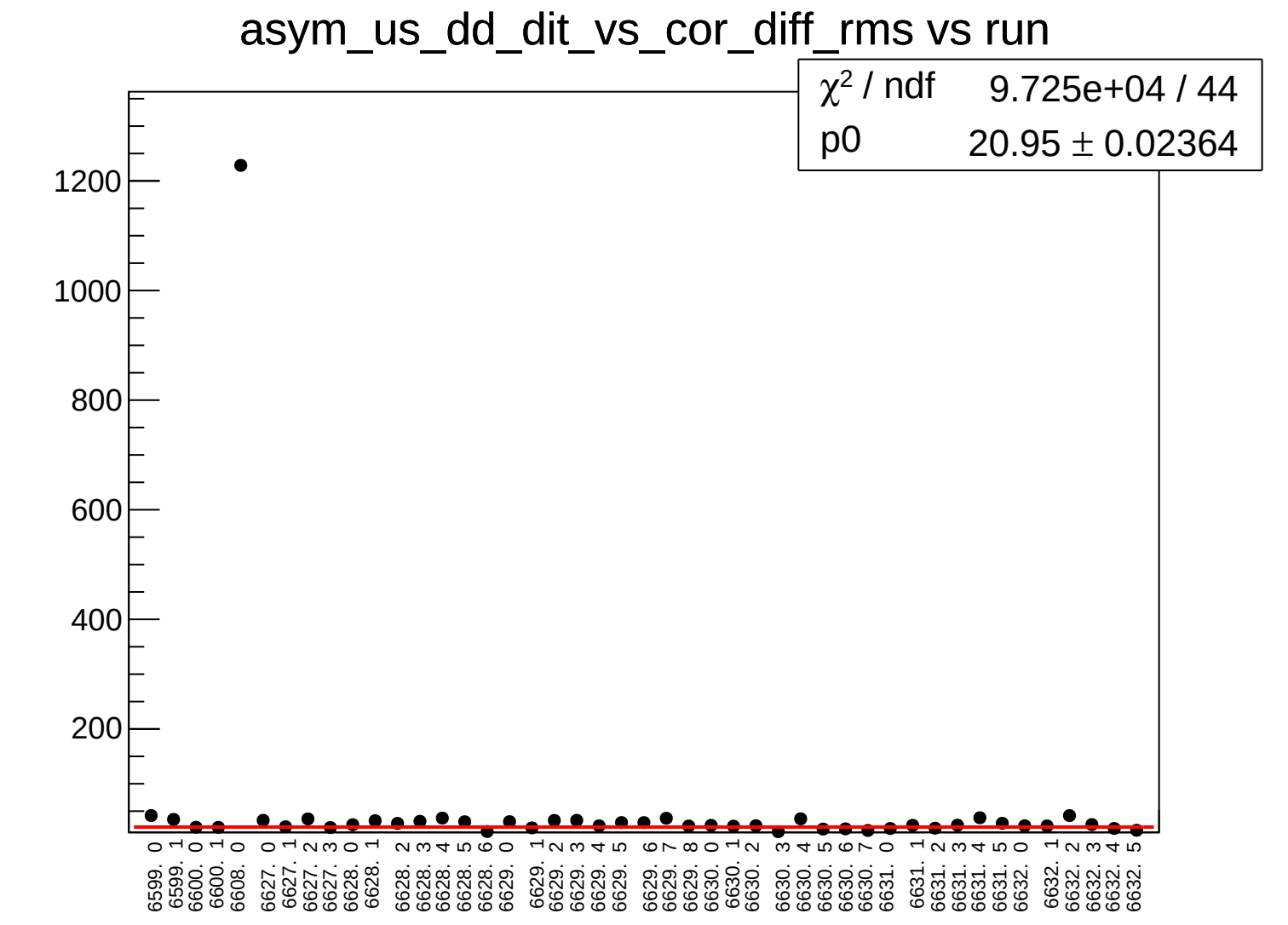

asym_us_dd_rms vs run
χ² / ndf 354.7 / 44
p0 901.8 ± 0.9601
940
930
920
910
900
890
880
870
860
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

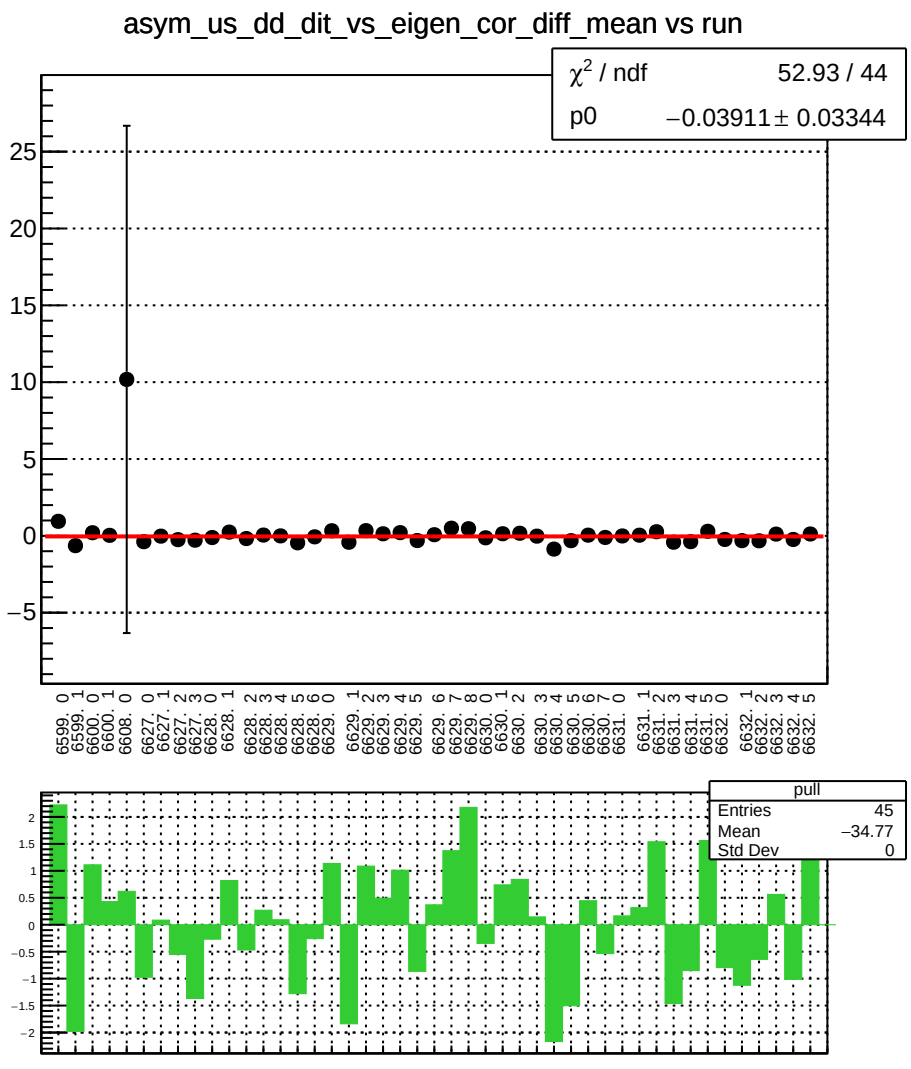

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 51.93 / 44
p0 −6.721e−15 ± 1.766e−14
pull
Entries 45
Mean −47.57
Std Dev 0

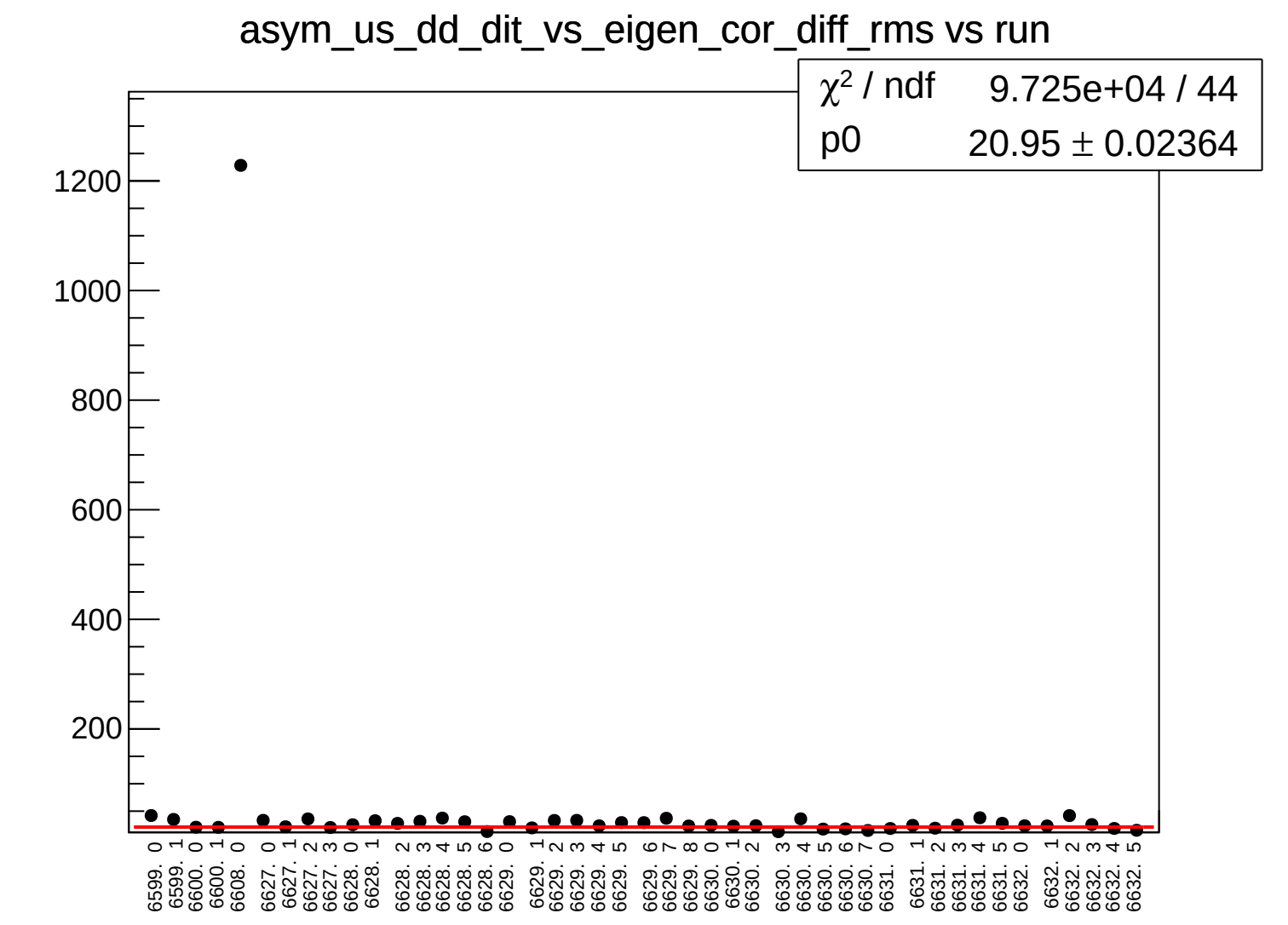

pull1D
Entries 45
Mean 0.04862
Std Dev 1.073

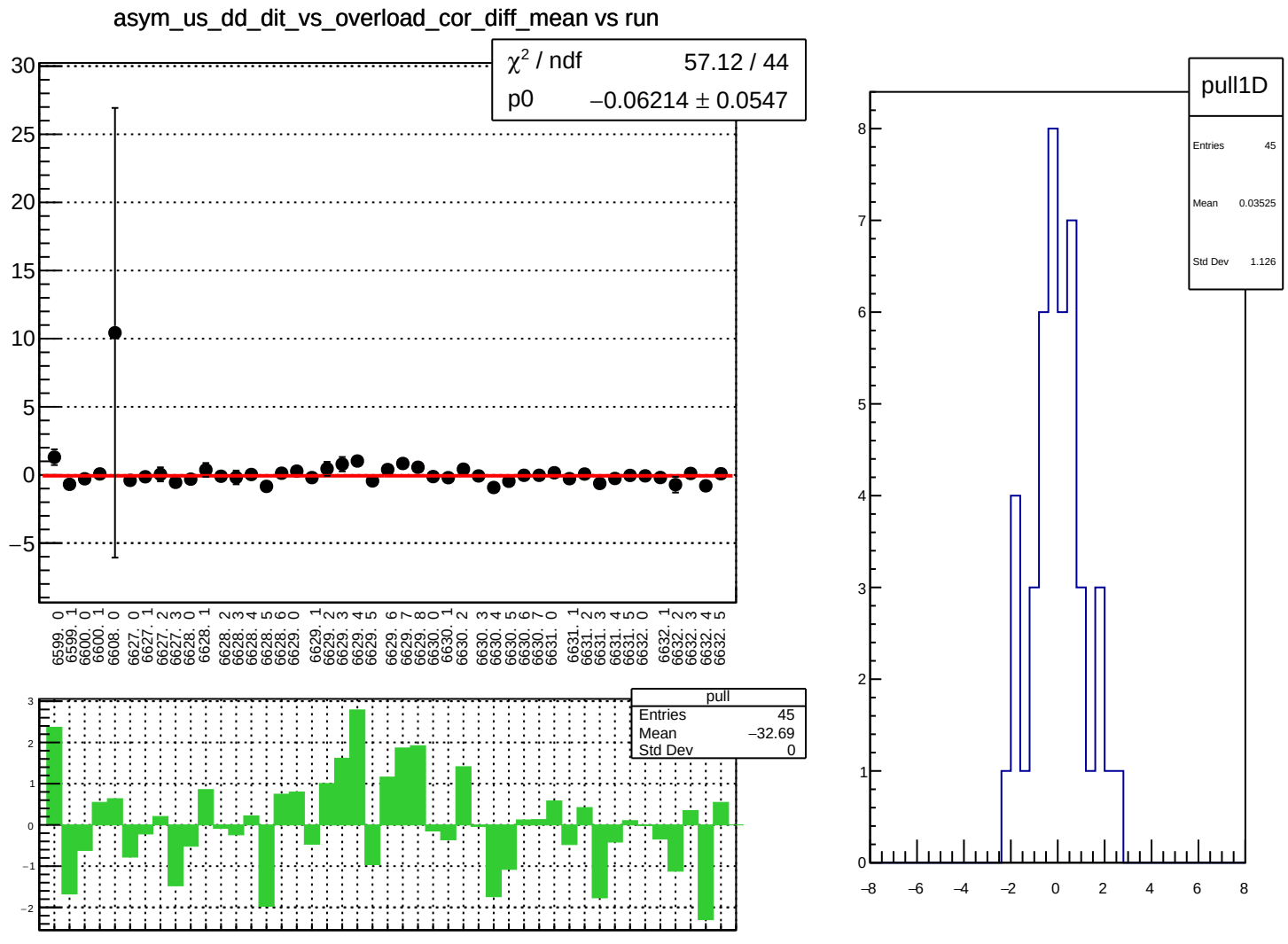

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.258e+05 / 44
p0 9.315e−12 ± 1.248e−14
0.1
0.08
0.06
0.04
0.02
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

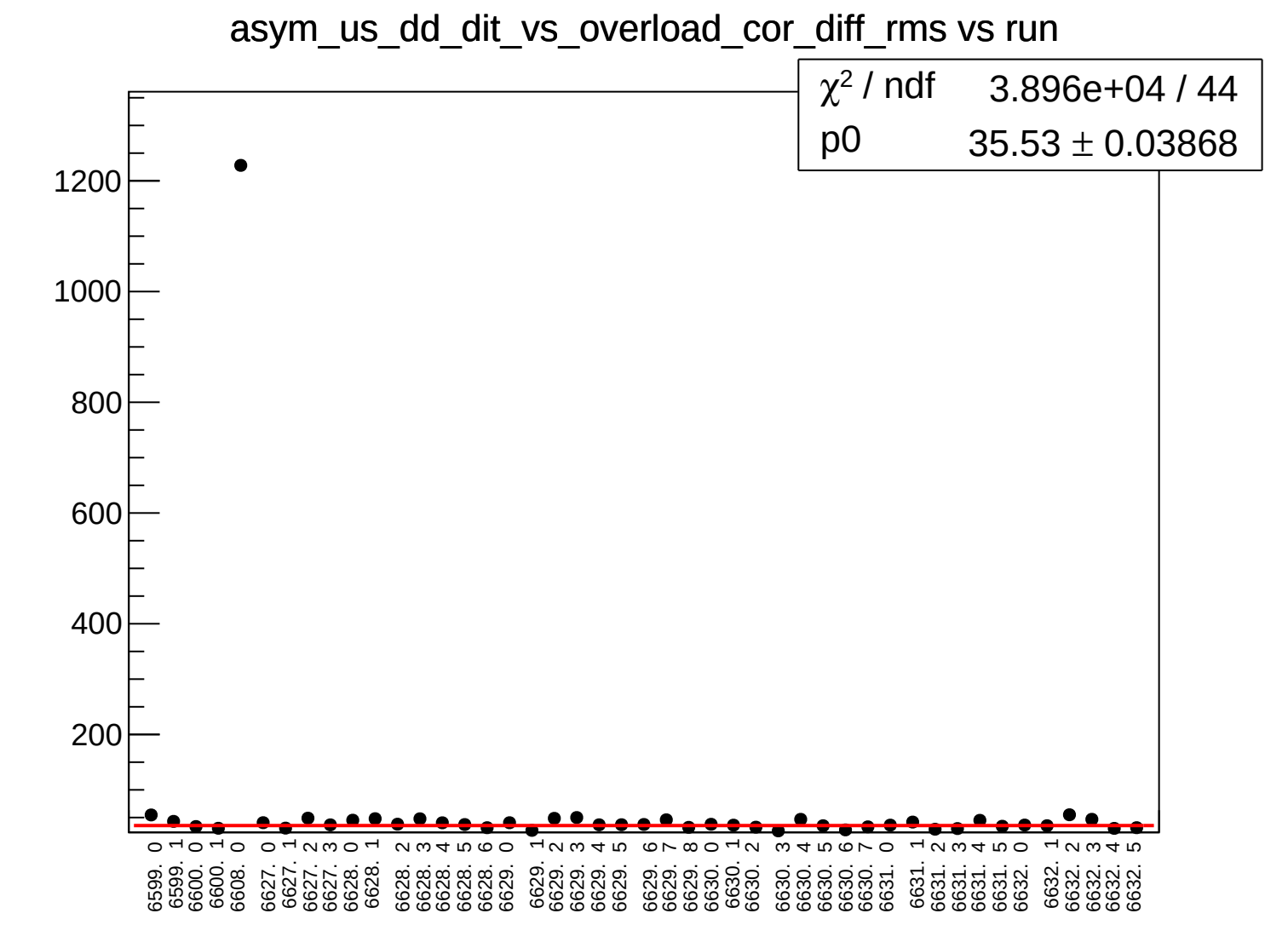

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 52.93 / 44
p0 −0.03911 ± 0.03344
25
20
15
10
5
0
−5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −34.77
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.0121
Std Dev 1.084
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

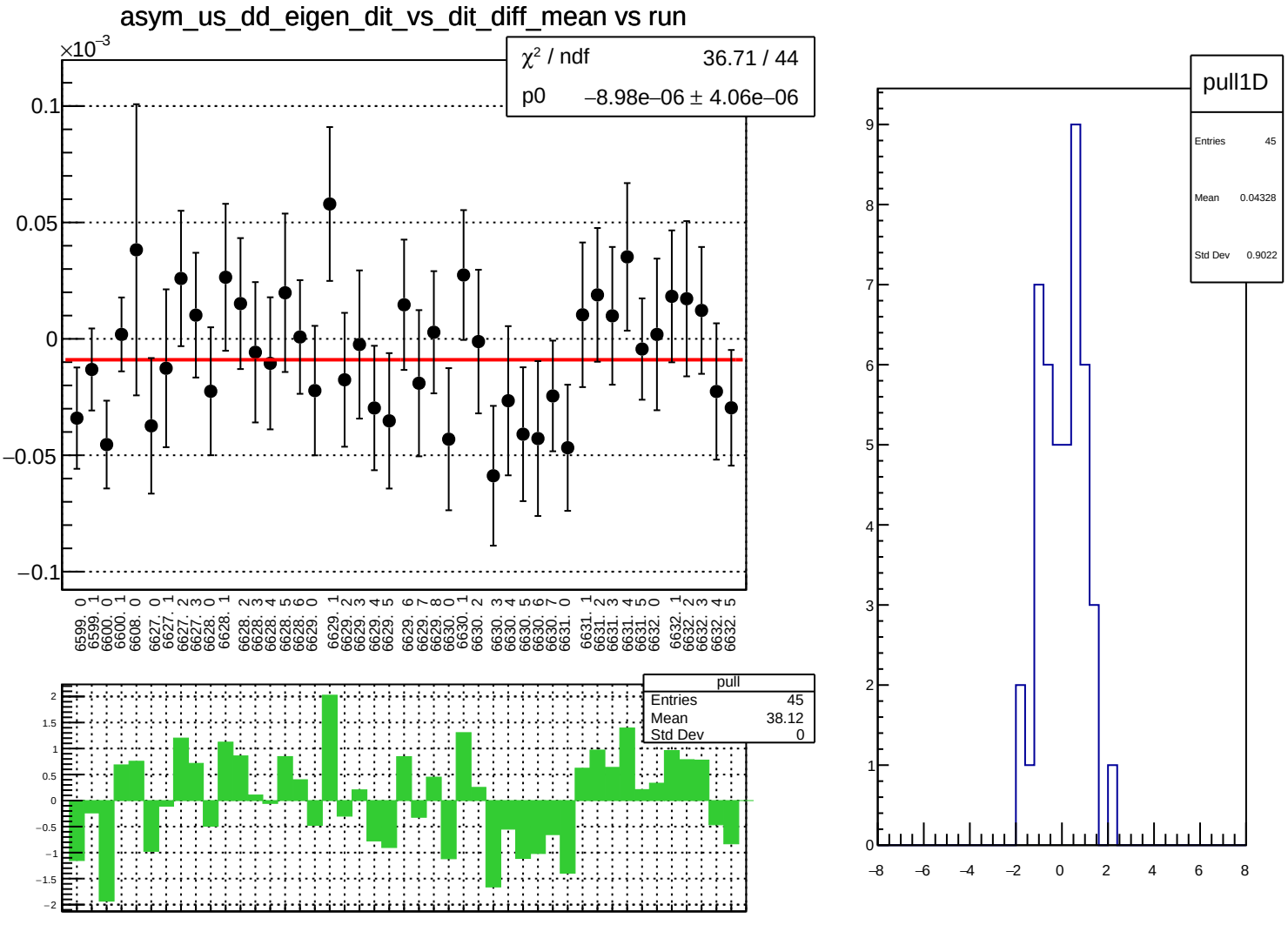

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.725e+04 / 44
p0 20.95 ± 0.02364
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

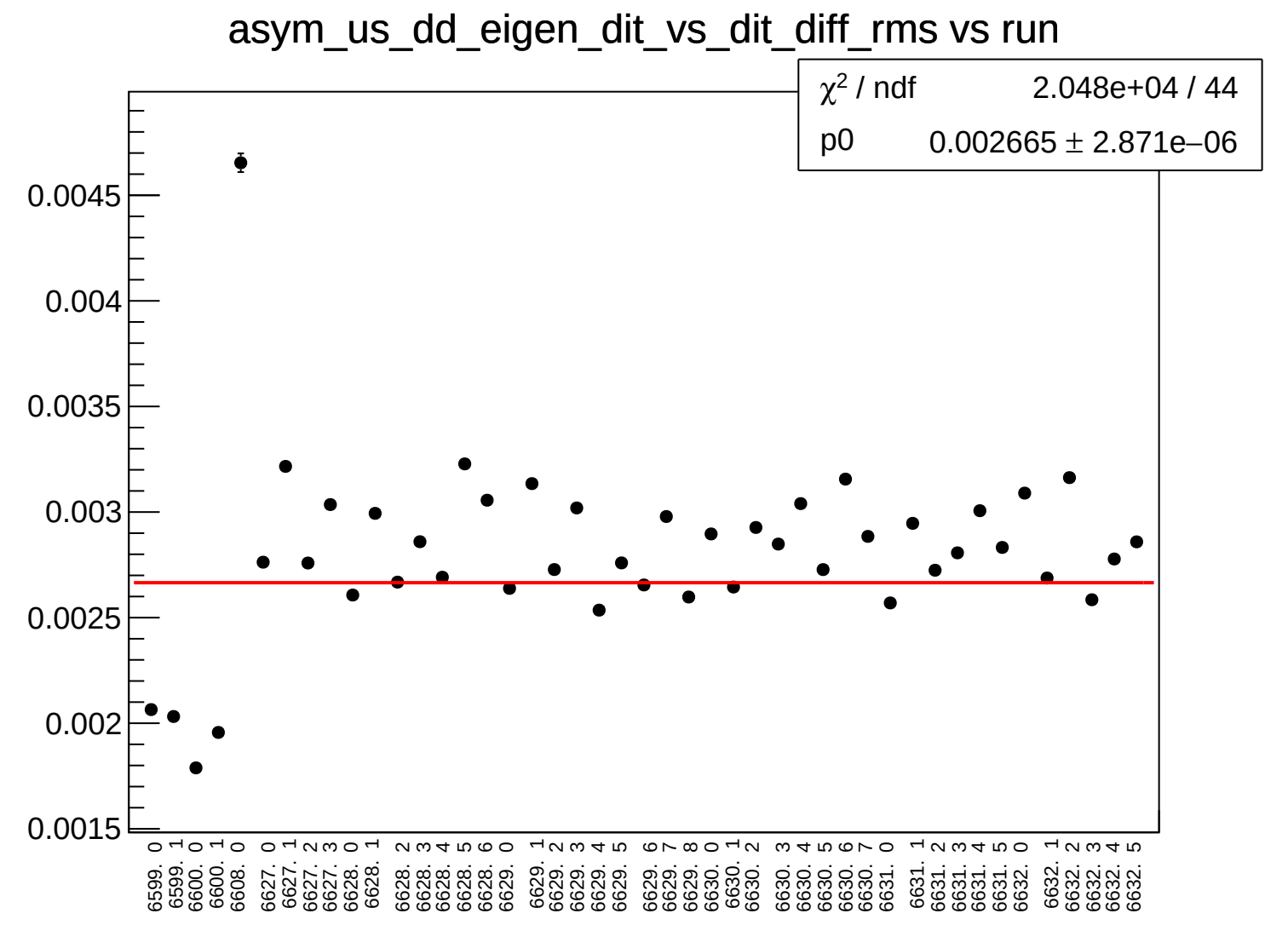

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.93 / 44
p0 −0.03911 ± 0.03344
25
20
15
10
5
0
−5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −34.77
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.0121
Std Dev 1.084
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

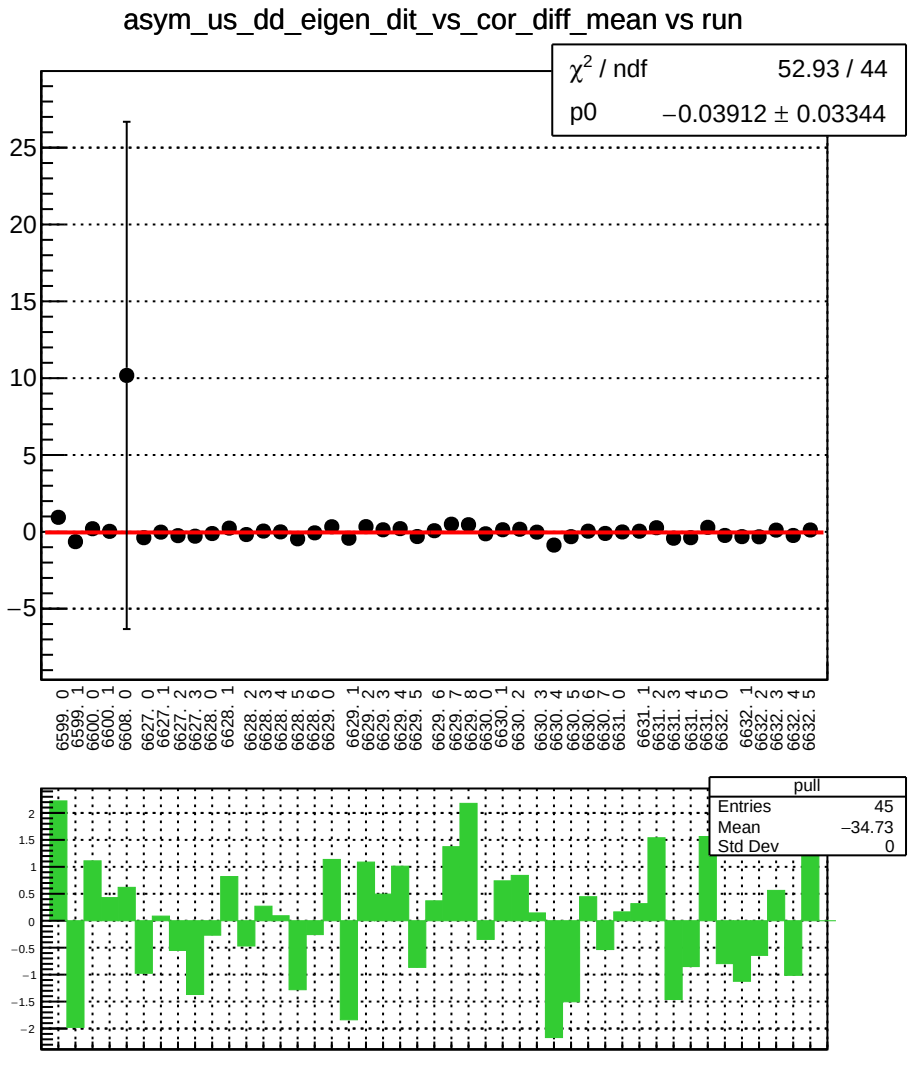

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.725e+04 / 44
p0 20.95 ± 0.02364
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

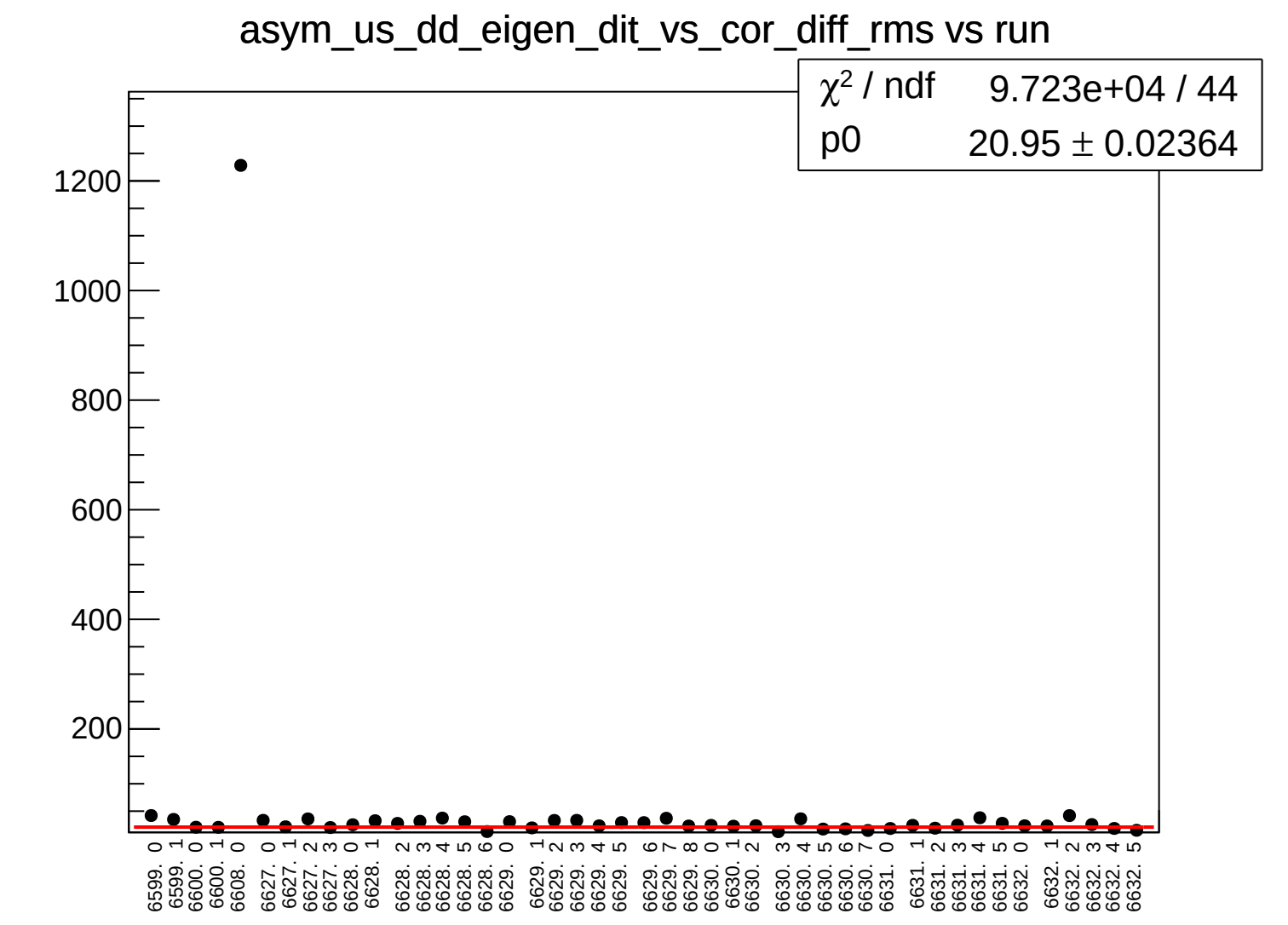

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 57.12 / 44
p0 −0.06214 ± 0.0547
30
25
20
15
10
5
0
−5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −32.69
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.03525
Std Dev 1.126
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 3.896e+04 / 44
p0 35.53 ± 0.03868
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 36.71 / 44
p0 −8.98e−06 ± 4.06e−06
0.1
0.05
0
−0.05
−0.1
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 38.12
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.04328
Std Dev 0.9022
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_dit_diff_rms vs run
χ² / ndf 2.048e+04 / 44
p0 0.002665 ± 2.871e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 52.93 / 44
p0 −0.03912 ± 0.03344
25
20
15
10
5
0
−5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −34.73
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01211
Std Dev 1.084
7
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 9.723e+04 / 44
p0 20.95 ± 0.02364
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
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6630. 6
6630. 7
6631. 0
6631. 1
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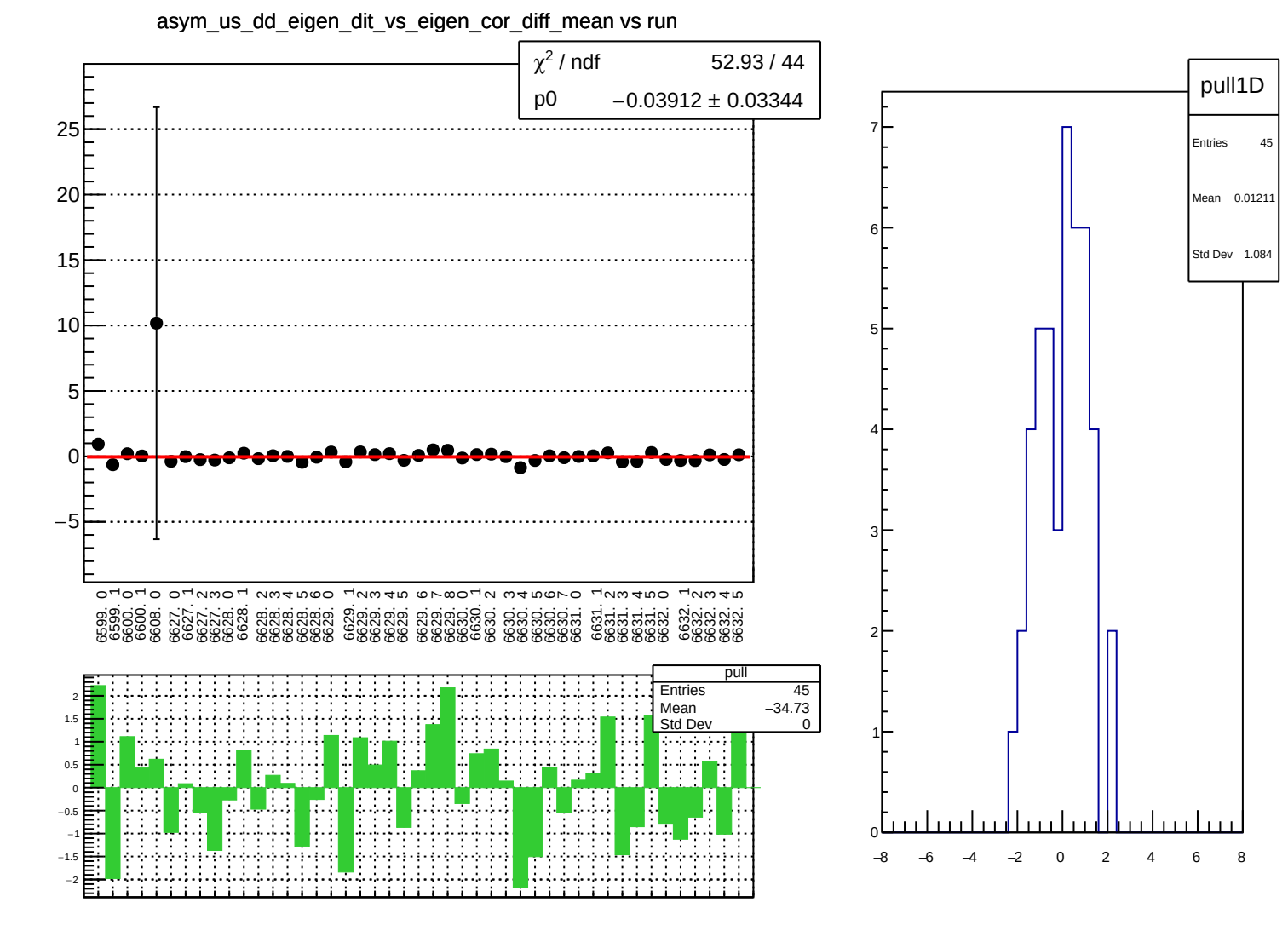
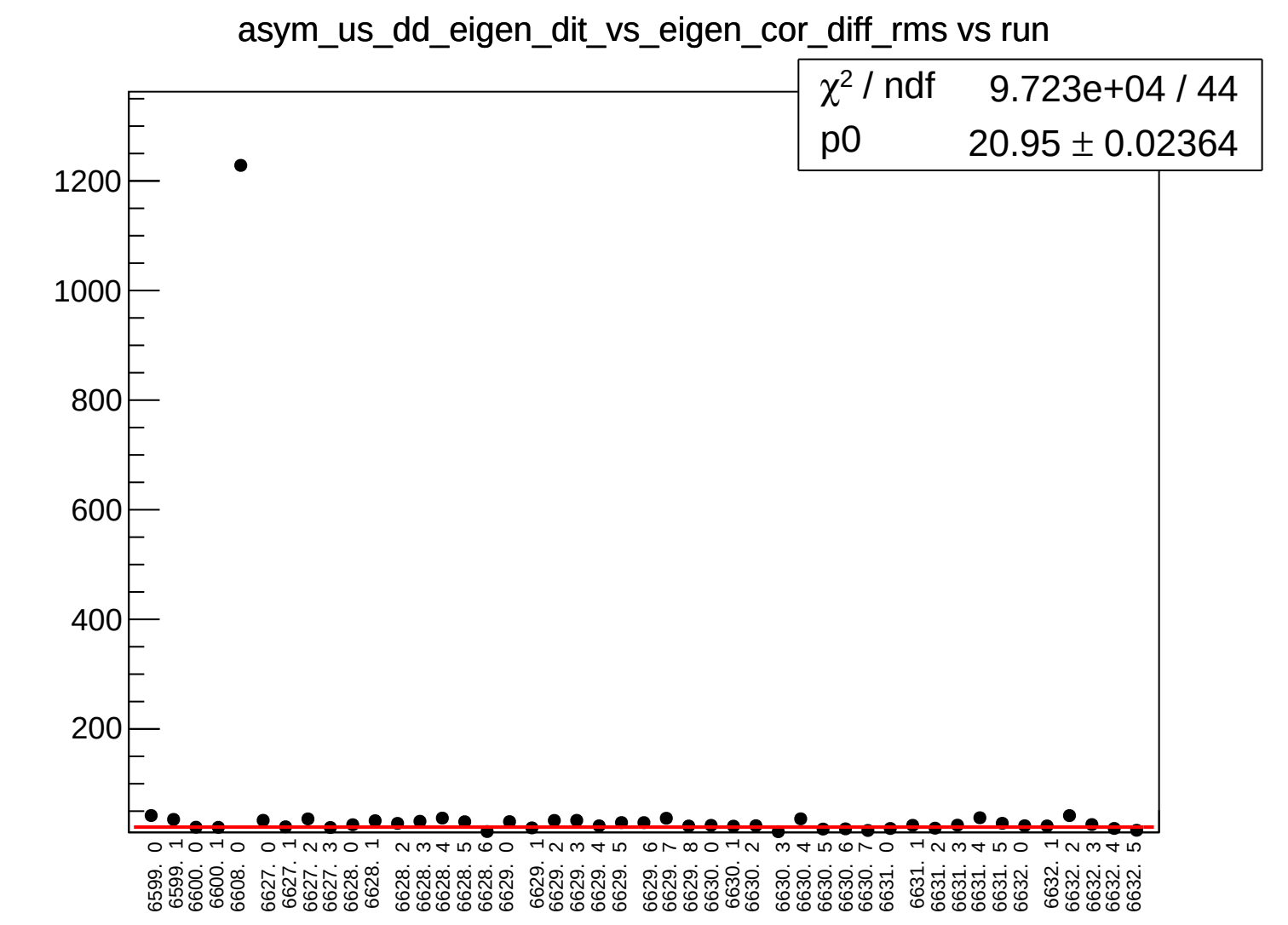
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.93 / 44
p0 −0.03912 ± 0.03344
pull
Entries 45
Mean −34.73
Std Dev 0
pull1D
Entries 45
Mean 0.01211
Std Dev 1.084


asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.723e+04 / 44
p0 20.95 ± 0.02364
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6629. 1
6629. 2
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6629. 7
6629. 8
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6630. 1
6630. 2
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6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
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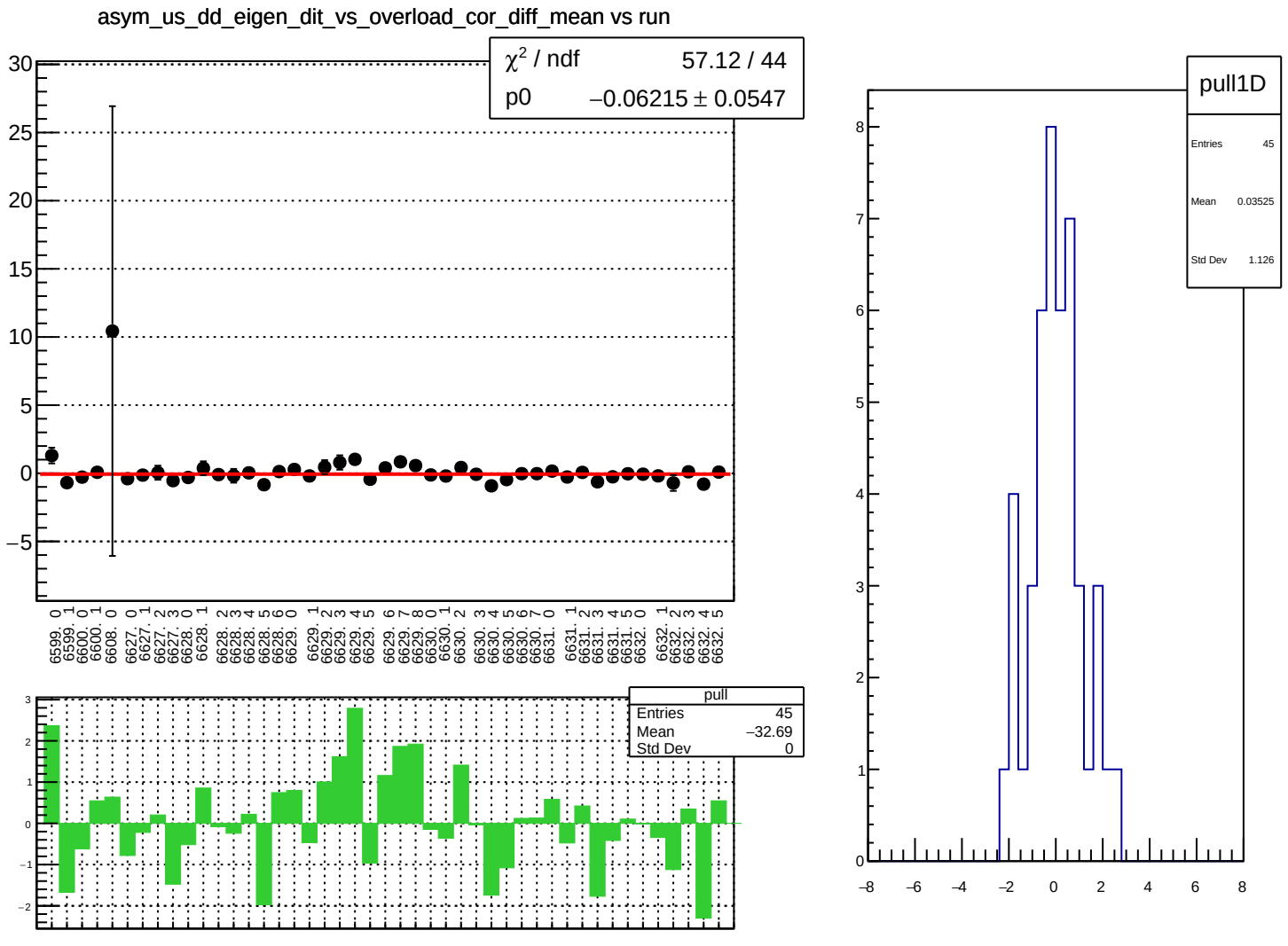
6632. 4
6632. 5


asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 57.12 / 44
p0 −0.06215 ± 0.0547
30
25
20
15
10
5
0
−5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
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6629. 6
6629. 7
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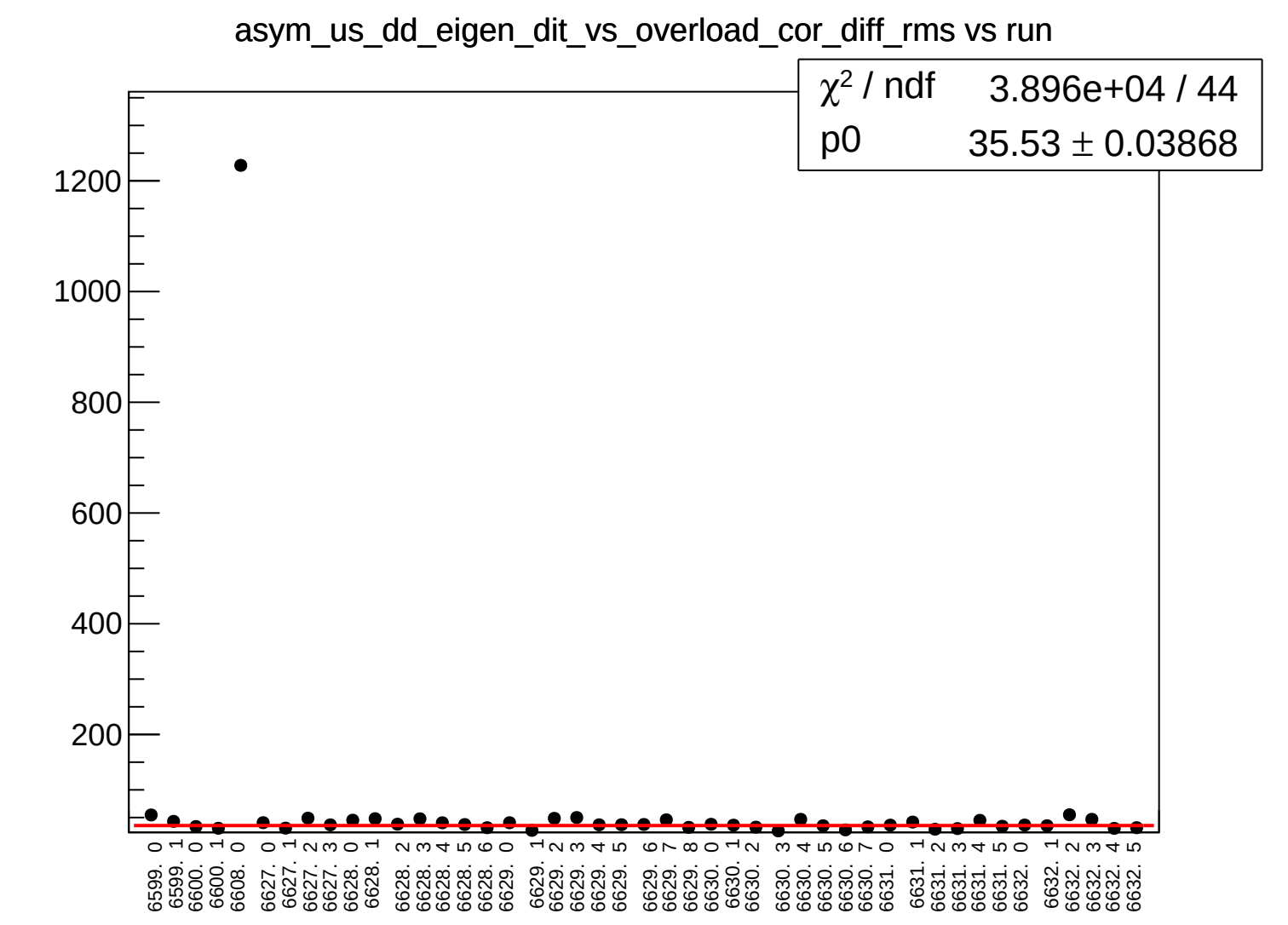
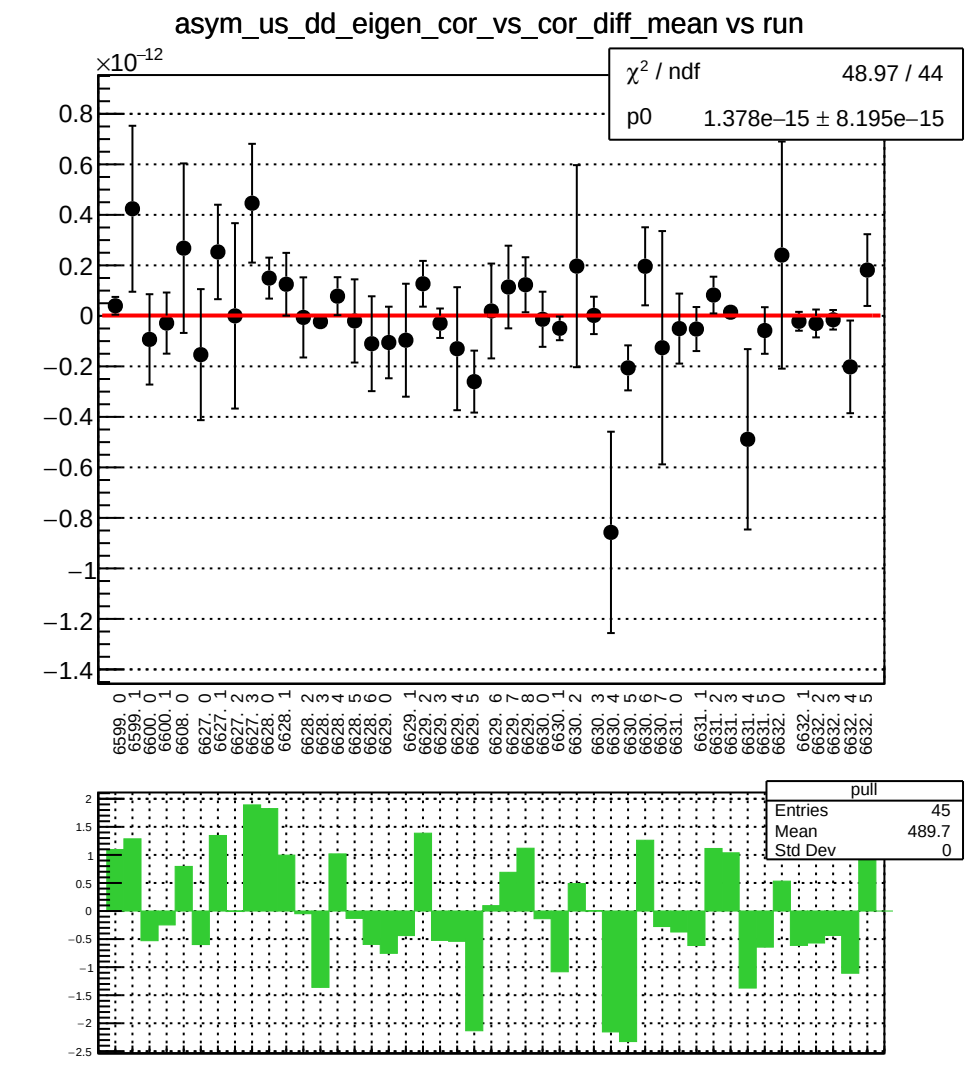
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −32.69
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.03525
Std Dev 1.126
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.896e+04 / 44
p0 35.53 ± 0.03868
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 48.97 / 44
p0 1.378e−15 ± 8.195e−15
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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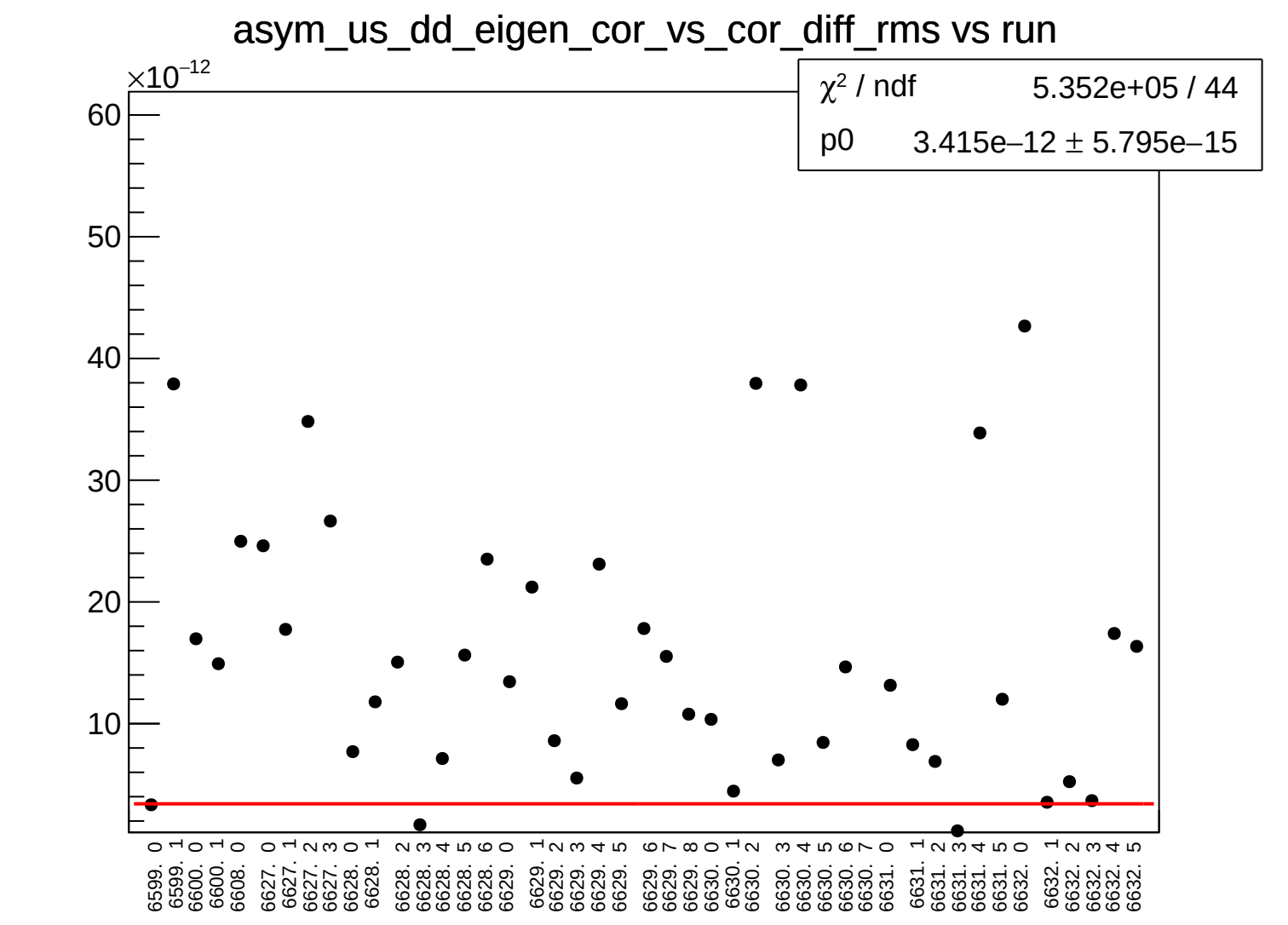
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 489.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.007716
Std Dev 1.043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.352e+05 / 44
p0 3.415e−12 ± 5.795e−15
60
50
40
30
20
10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
6629. 3
6629. 4
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
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6630. 5
6630. 6
6630. 7
6631. 0
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6631. 2
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6632. 2
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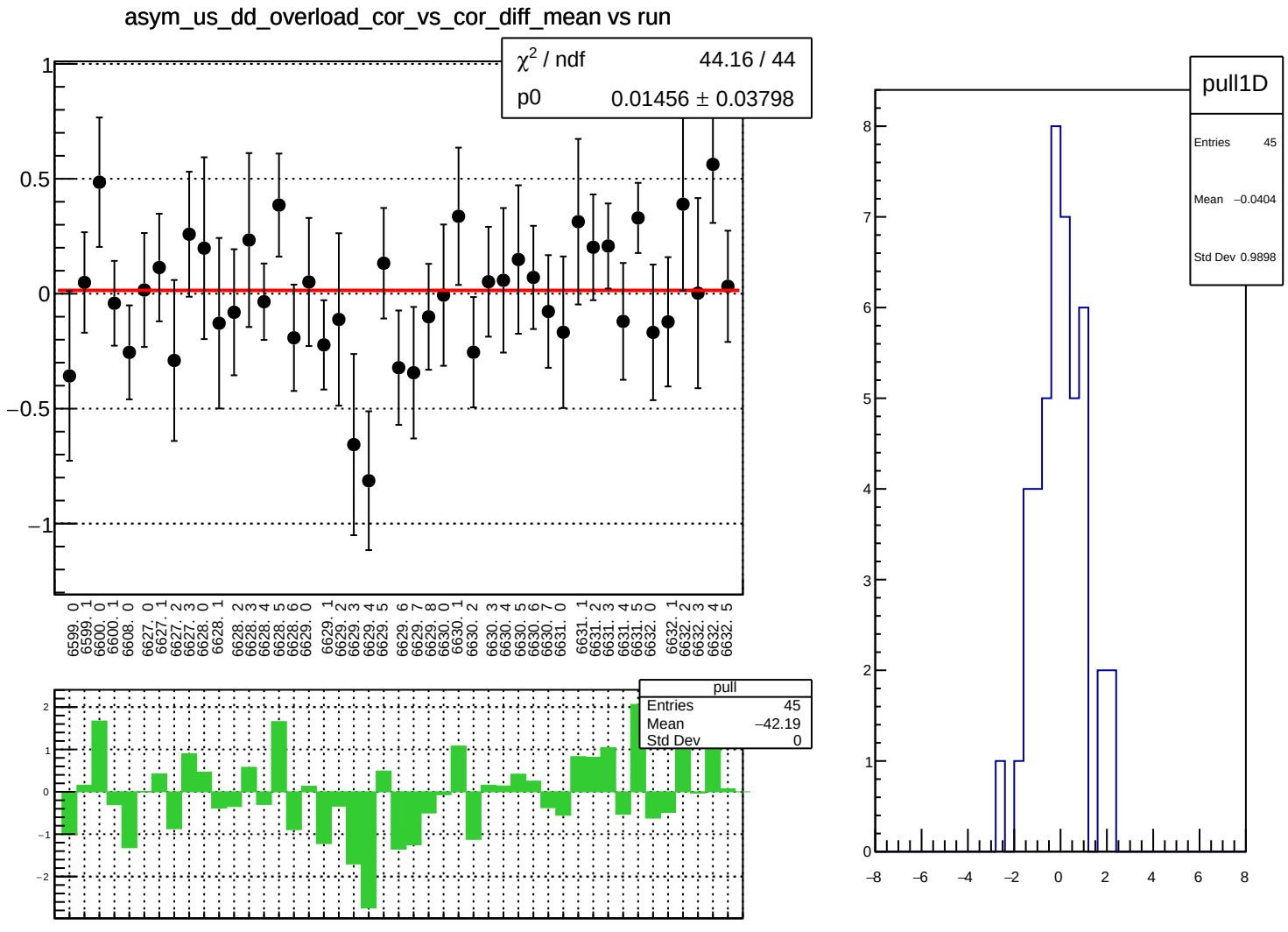
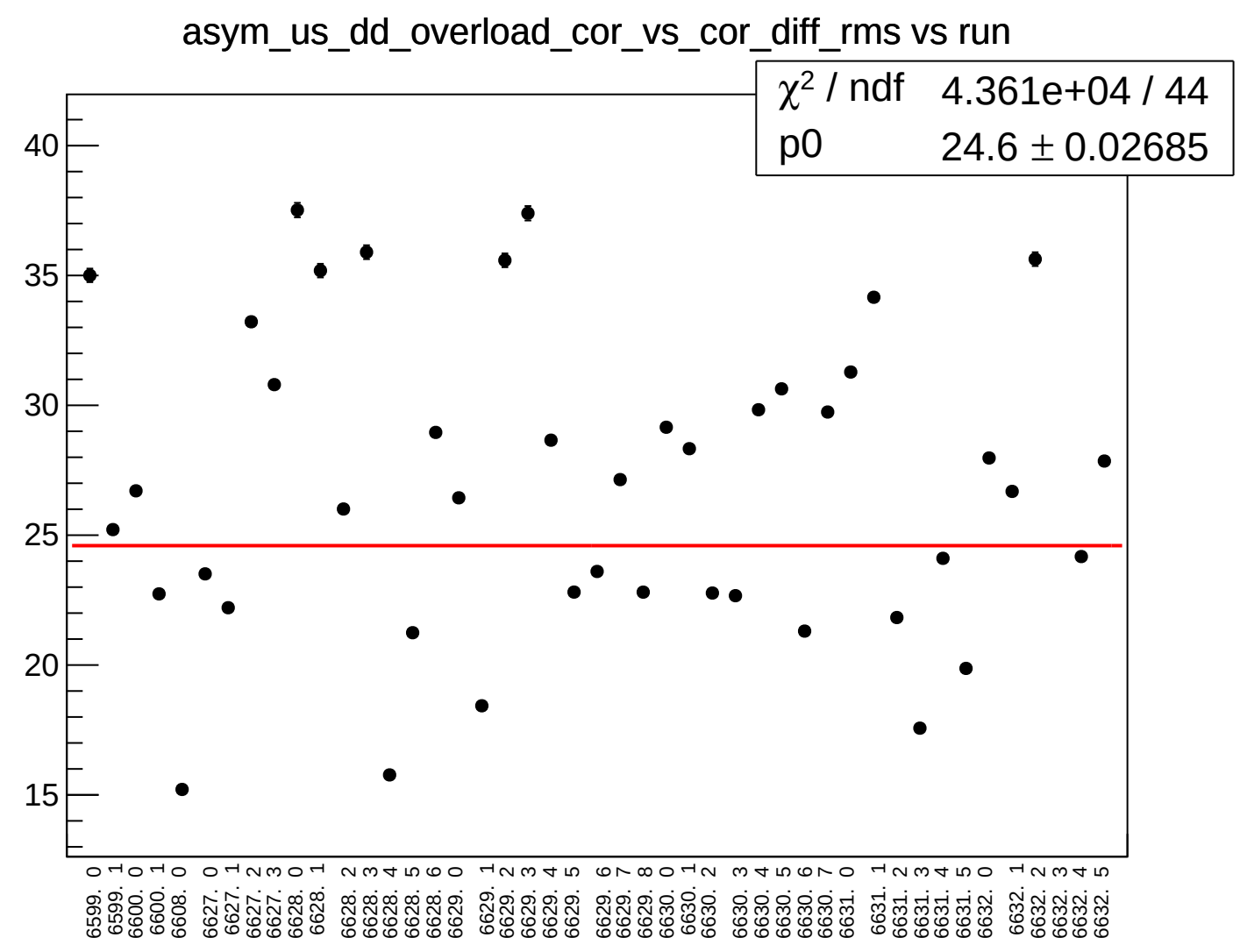
6632. 5


asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 44.16 / 44
p0 0.01456 ± 0.03798
pull
Entries 45
Mean −42.19
Std Dev 0
pull1D
Entries 45
Mean −0.0404
Std Dev 0.9898


asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 4.361e+04 / 44
p0 24.6 ± 0.02685
40
35
30
25
20
15
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
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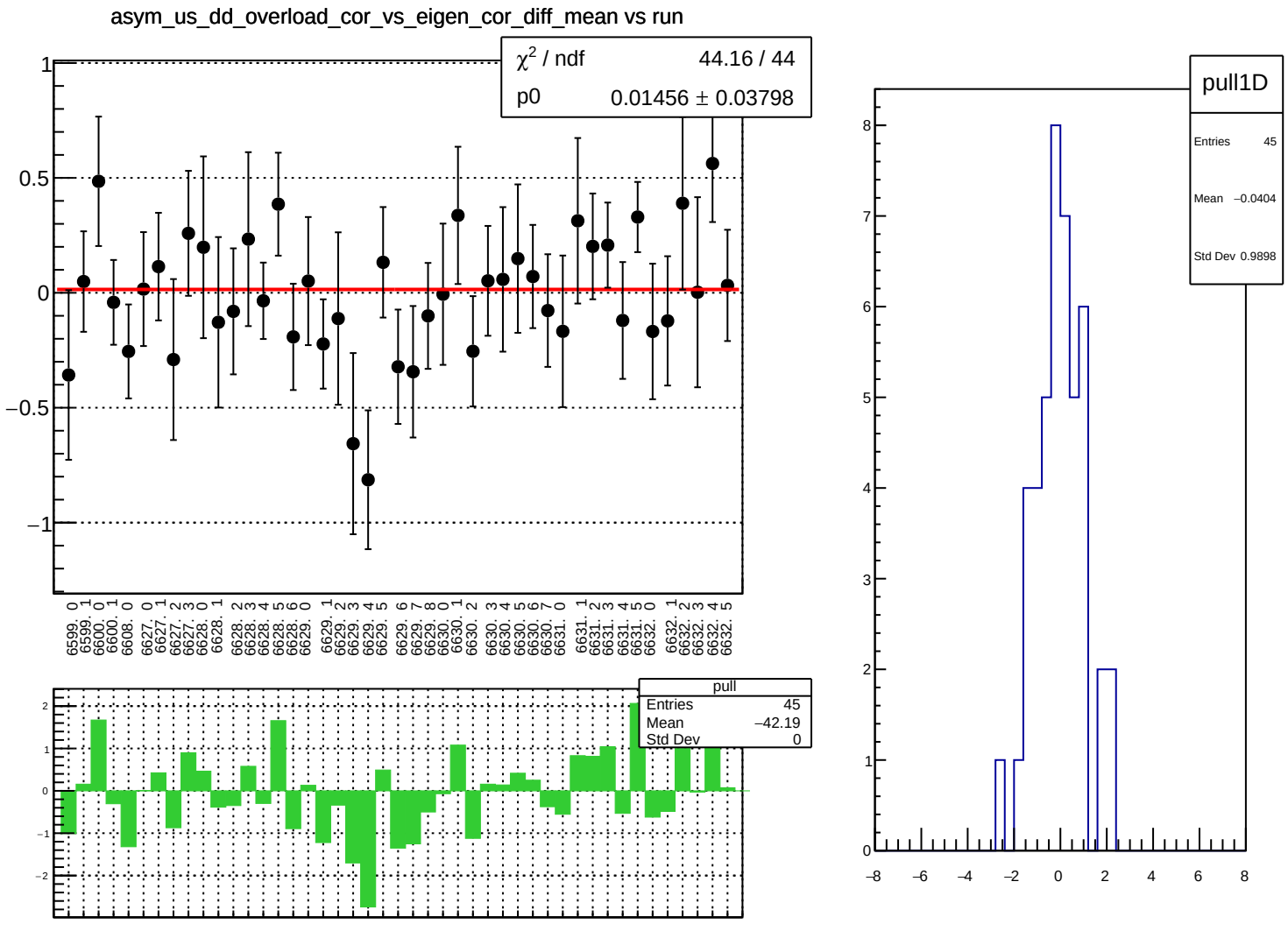
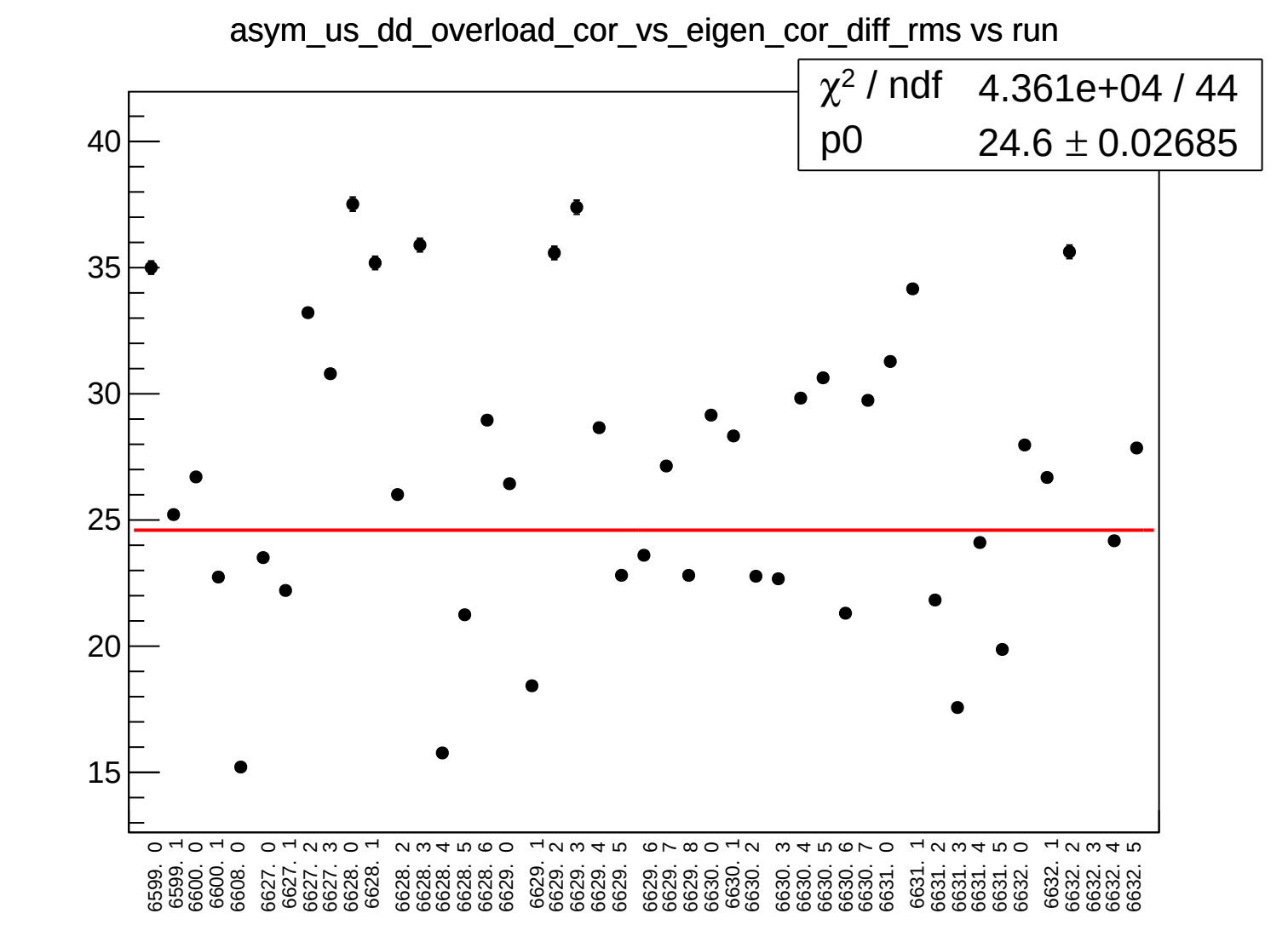
6632. 4
6632. 5


asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 44.16 / 44
p0 0.01456 ± 0.03798
pull
Entries 45
Mean −42.19
Std Dev 0
pull1D
Entries 45
Mean −0.0404
Std Dev 0.9898


asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.361e+04 / 44
p0 24.6 ± 0.02685
40
35
30
25
20
15
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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6632. 2
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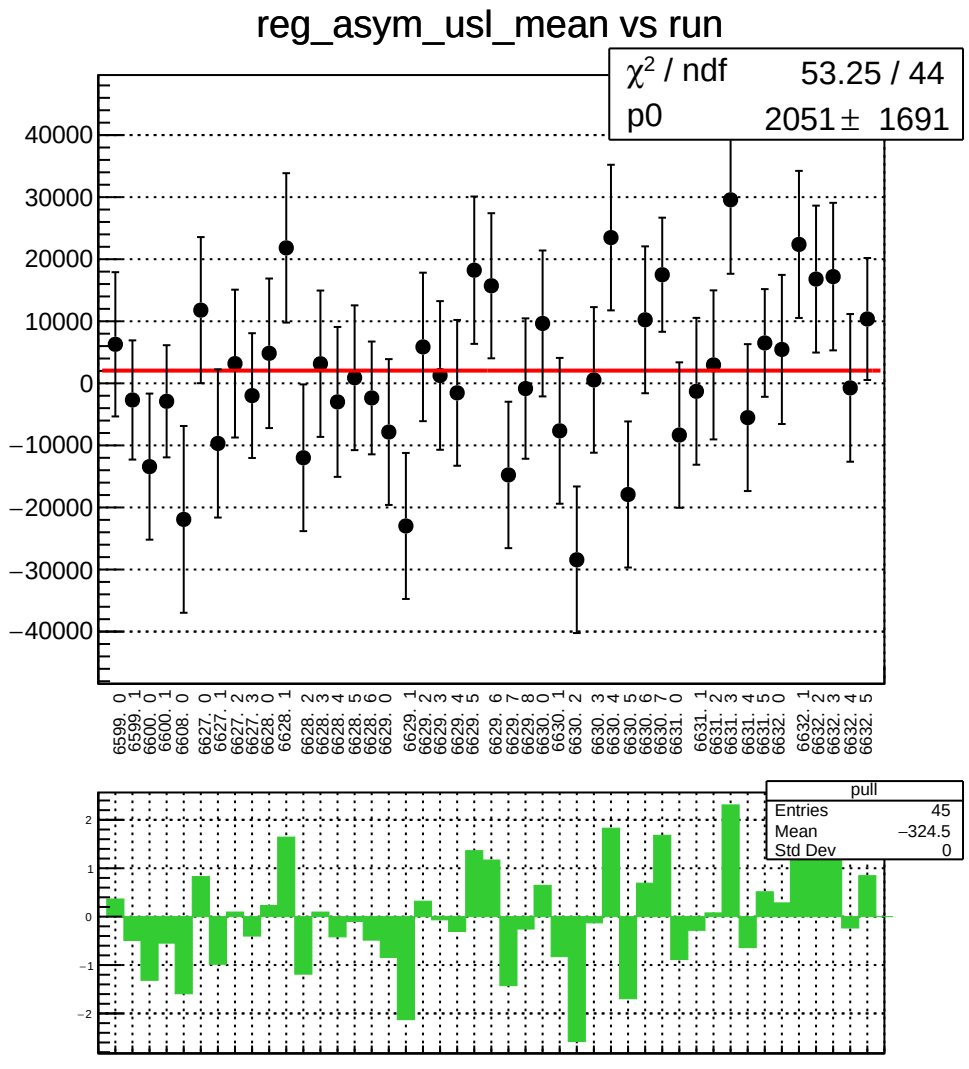
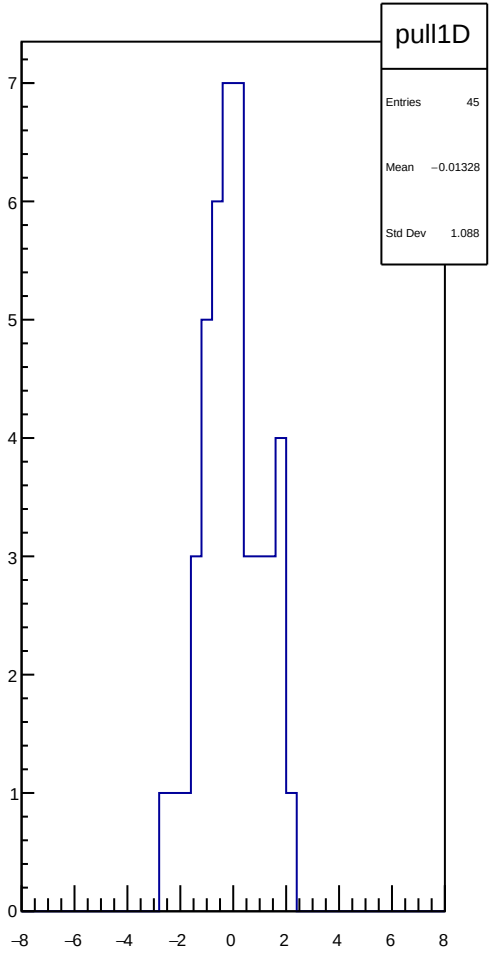
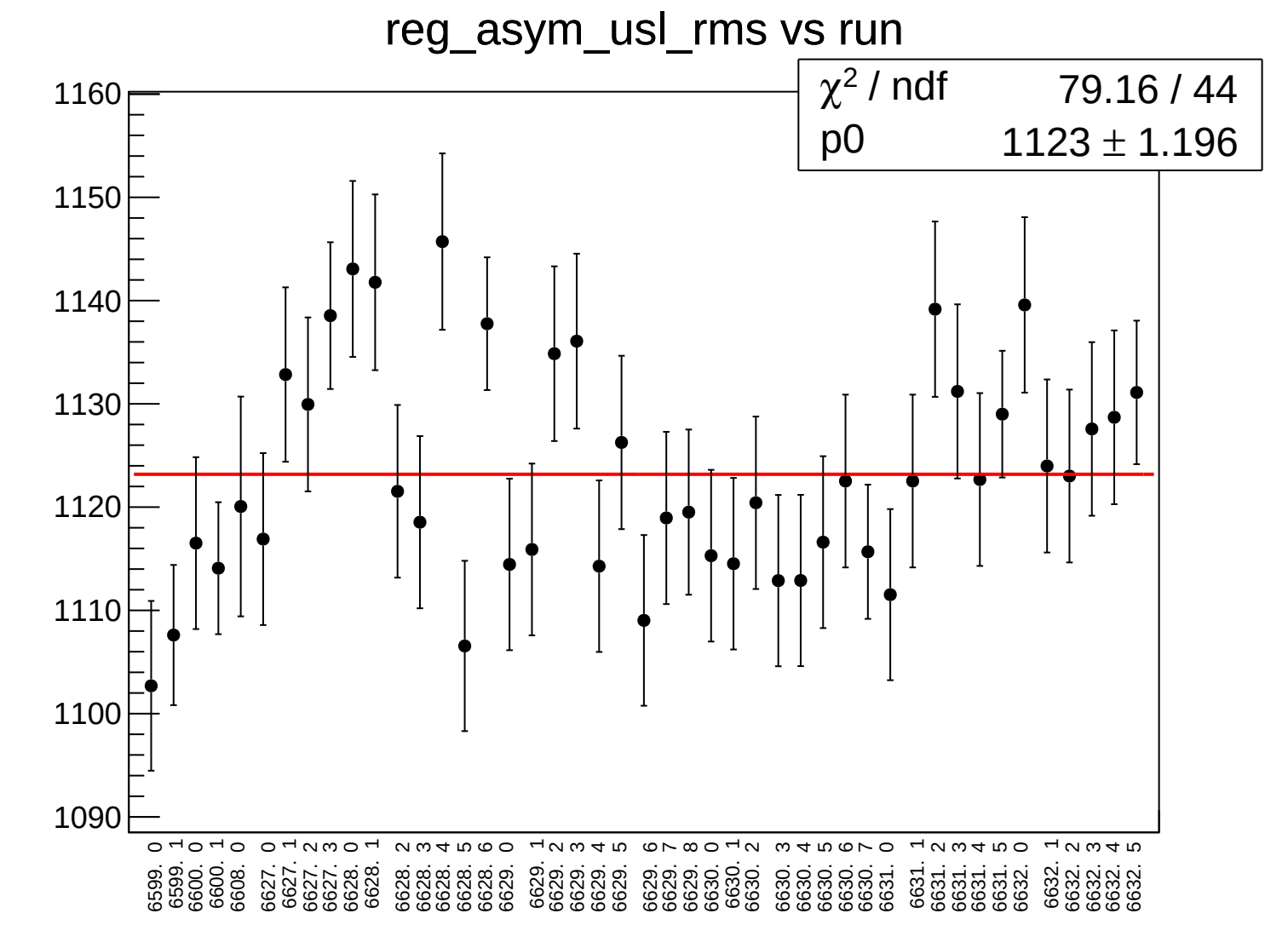
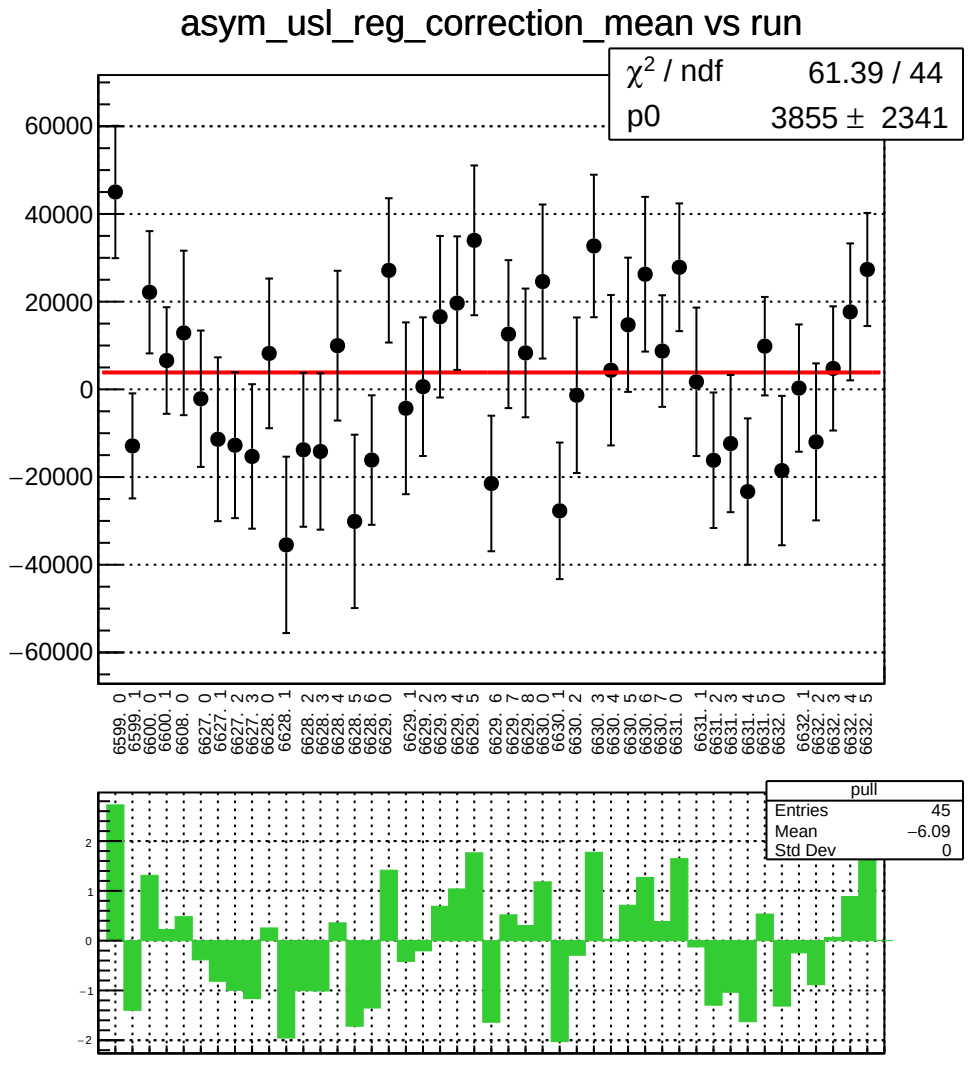
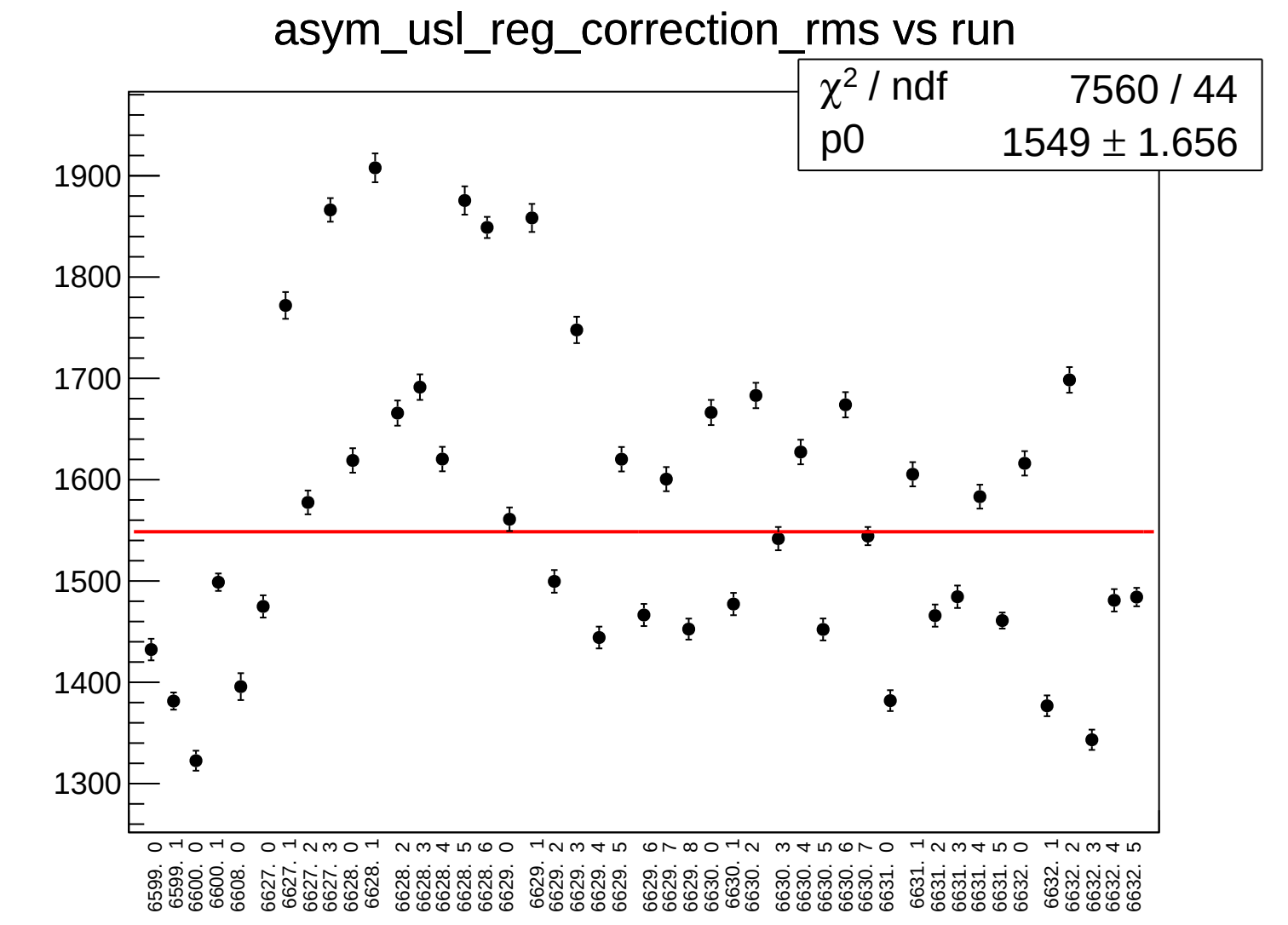
6632. 4
6632. 5


reg_asym_usl_mean vs run
χ² / ndf 53.25 / 44
p0 2051 ± 1691
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −324.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.01328
Std Dev 1.088
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usl_rms vs run
χ² / ndf 79.16 / 44
p0 1123 ± 1.196
1160
1150
1140
1130
1120
1110
1100
1090
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_usl_reg_correction_mean vs run
χ² / ndf 61.39 / 44
p0 3855 ± 2341
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −6.09
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.03386
Std Dev 1.168
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_reg_correction_rms vs run
χ² / ndf 7560 / 44
p0 1549 ± 1.656
1900
1800
1700
1600
1500
1400
1300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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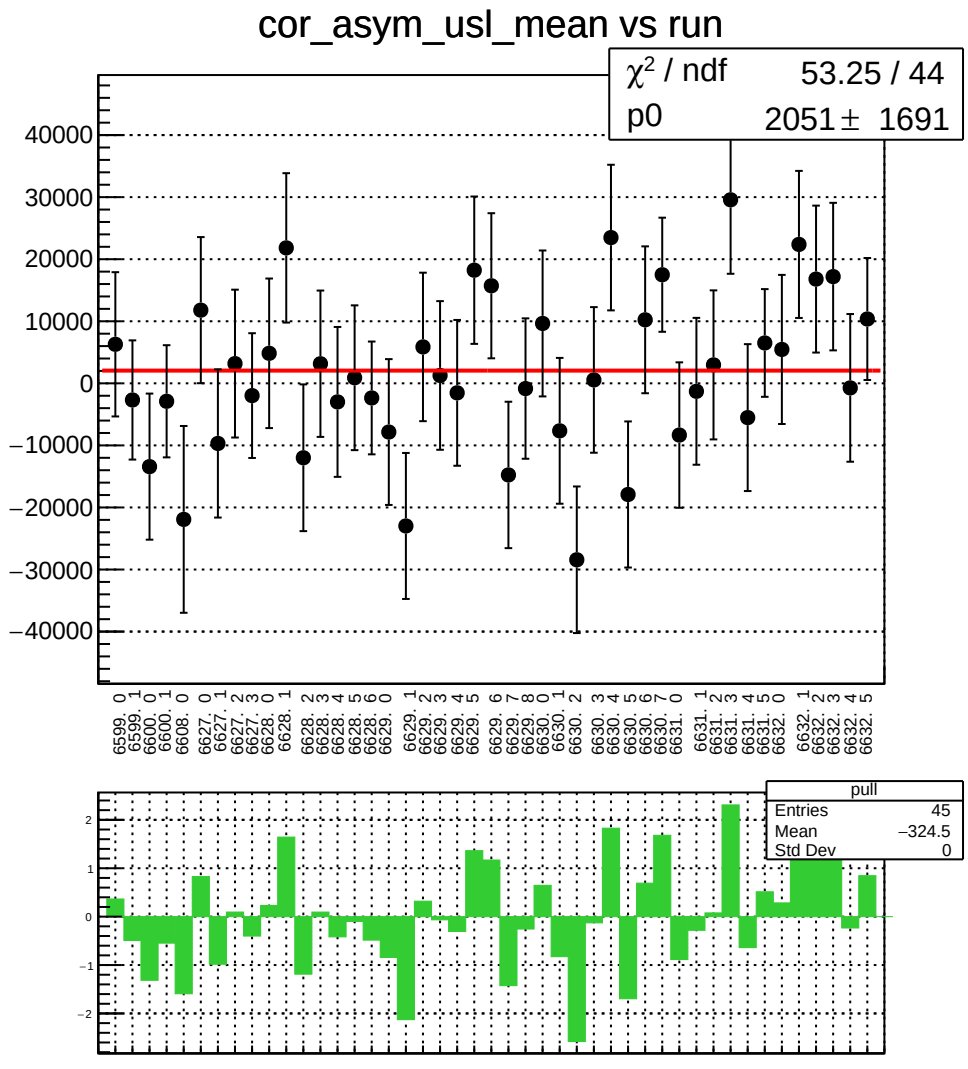
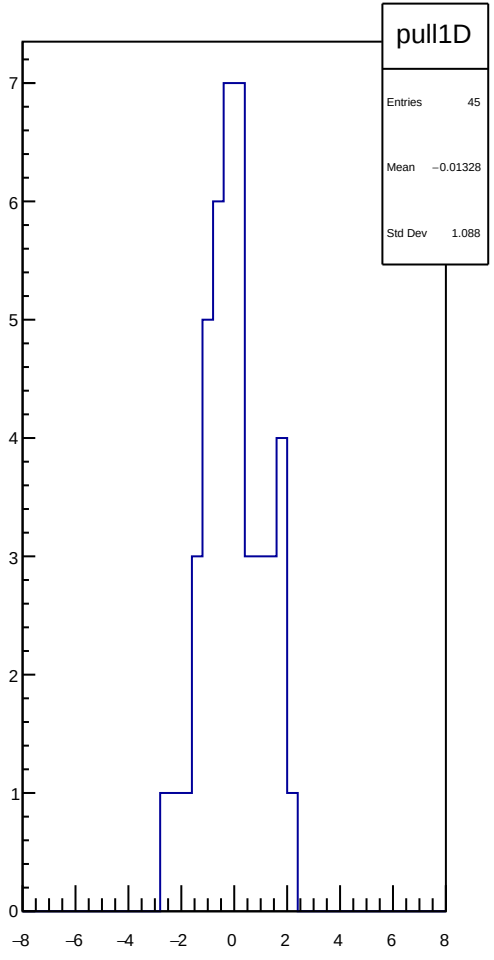
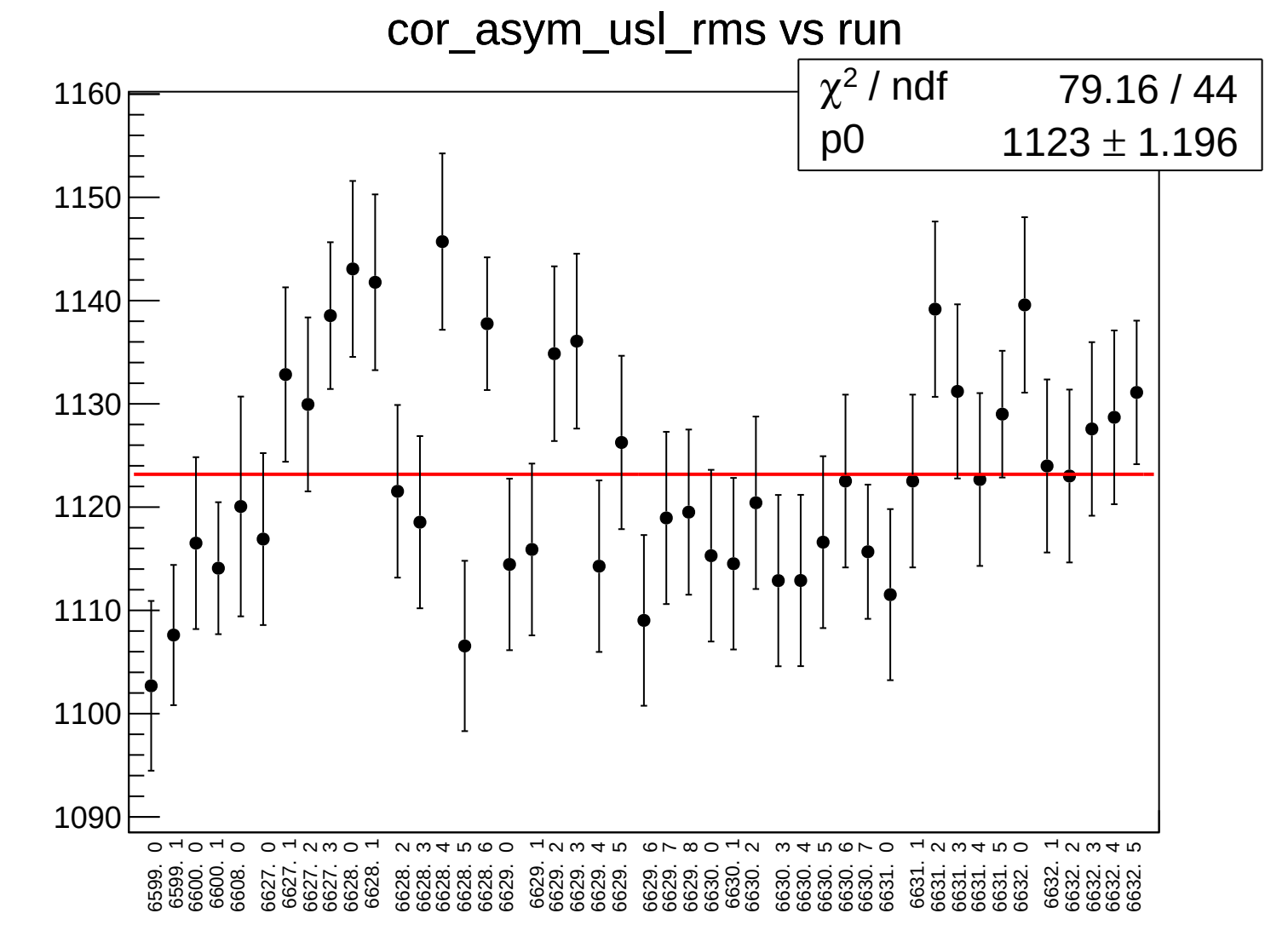
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_usl_mean vs run
χ² / ndf 53.25 / 44
p0 2051 ± 1691
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −324.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.01328
Std Dev 1.088
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usl_rms vs run
χ² / ndf 79.16 / 44
p0 1123 ± 1.196
1160
1150
1140
1130
1120
1110
1100
1090
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
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6628. 1
6628. 2
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6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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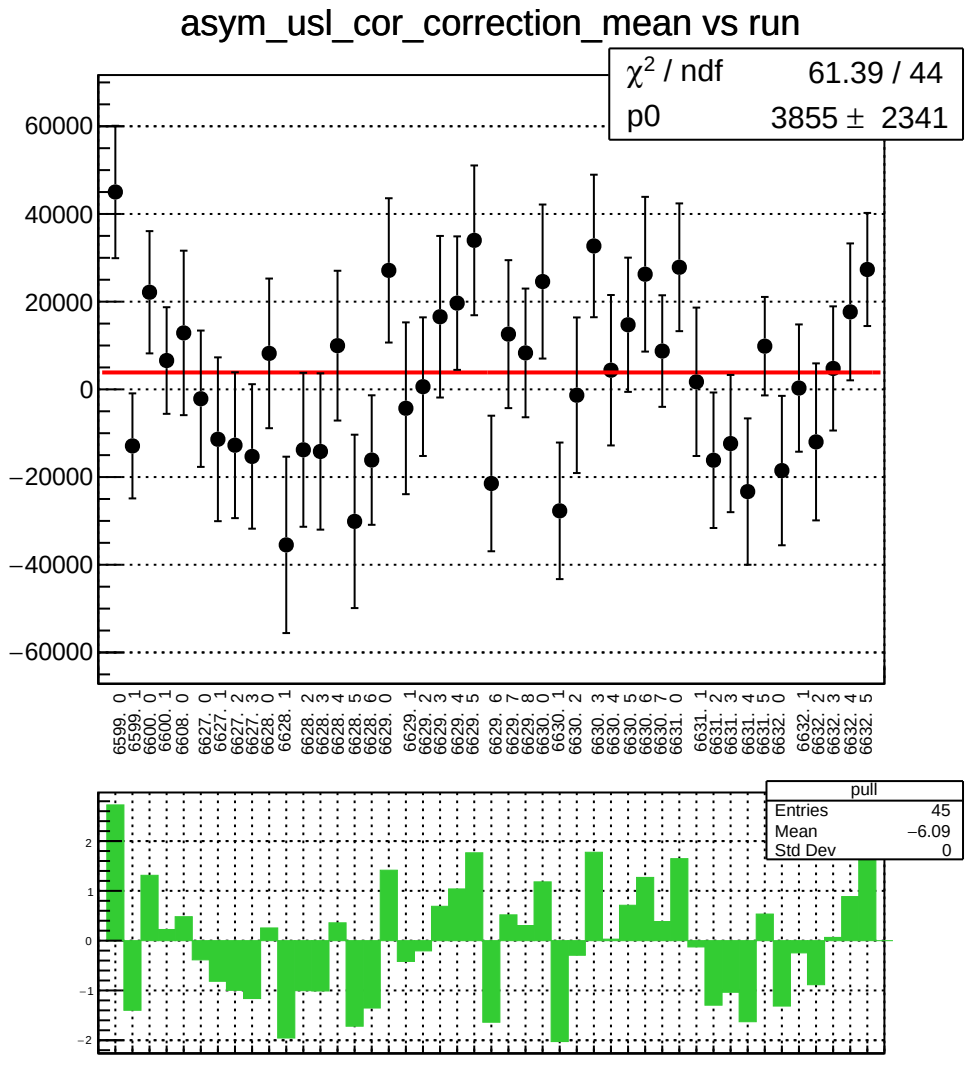
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_usl_cor_correction_mean vs run
χ² / ndf 61.39 / 44
p0 3855 ± 2341
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
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6629. 3
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6630. 1
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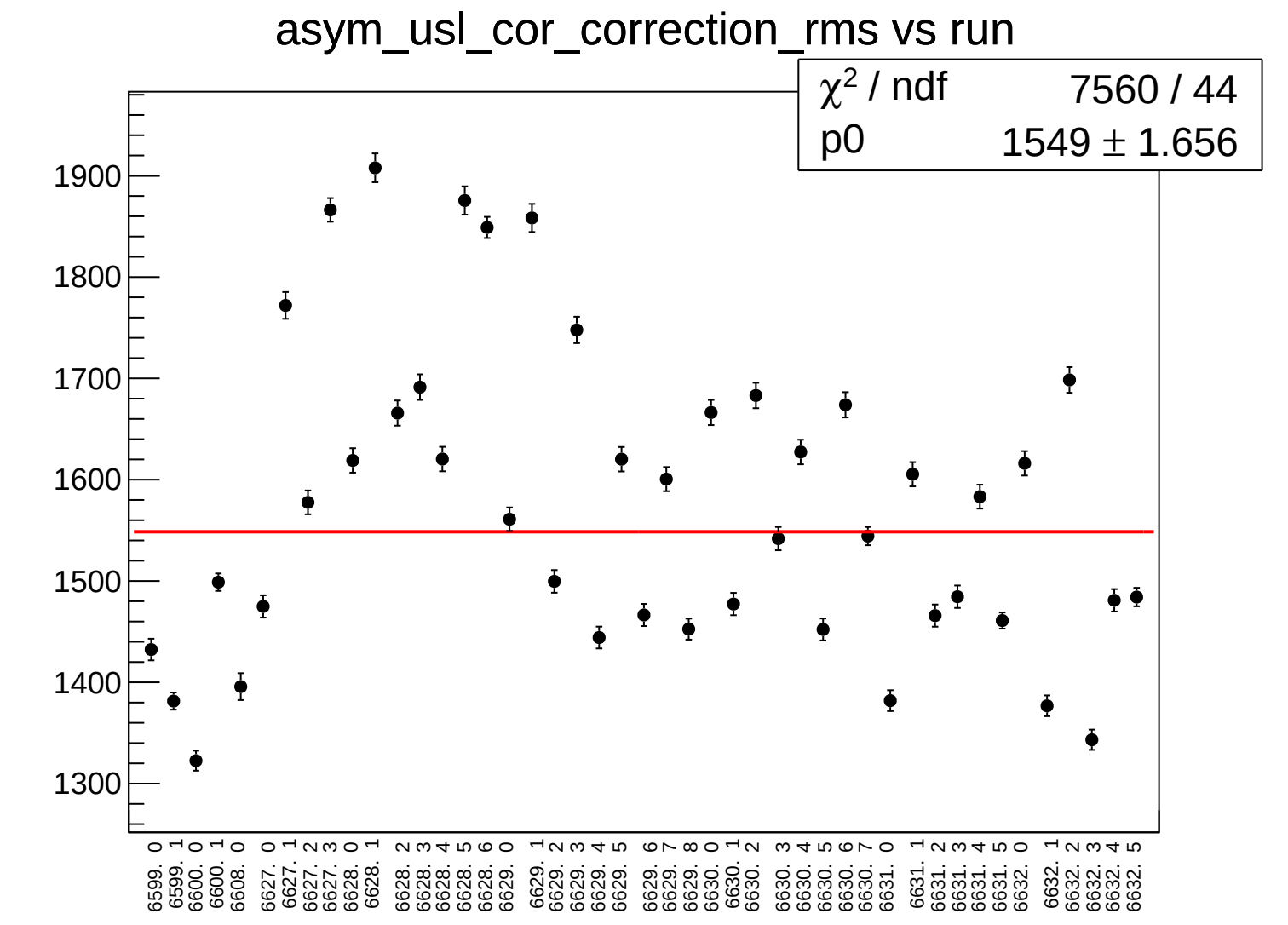
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −6.09
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.03386
Std Dev 1.168
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_cor_correction_rms vs run
χ² / ndf 7560 / 44
p0 1549 ± 1.656
1900
1800
1700
1600
1500
1400
1300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
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6629. 1
6629. 2
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6630. 1
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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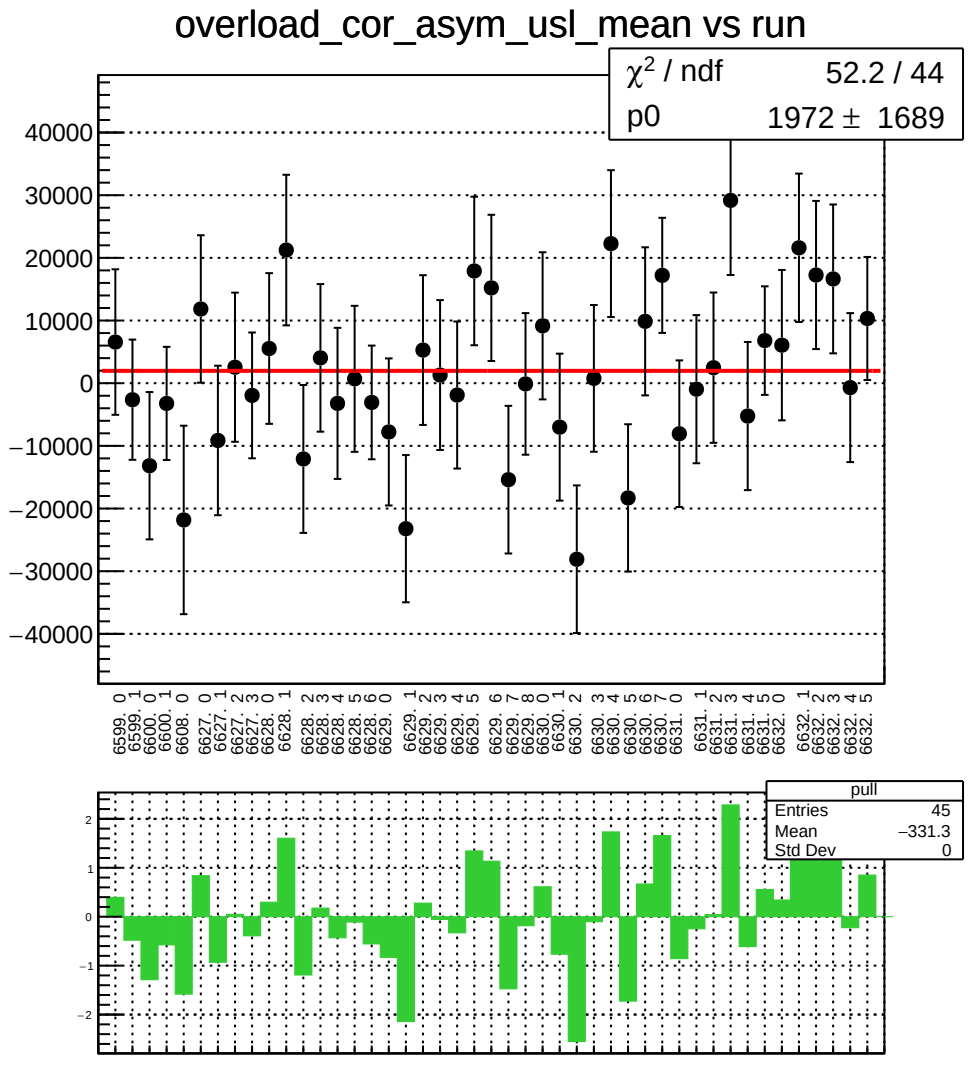
6632. 5


overload_cor_asym_usl_mean vs run
χ² / ndf 52.2 / 44
p0 1972 ± 1689
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6629. 3
6629. 4
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6629. 6
6629. 7
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6630. 1
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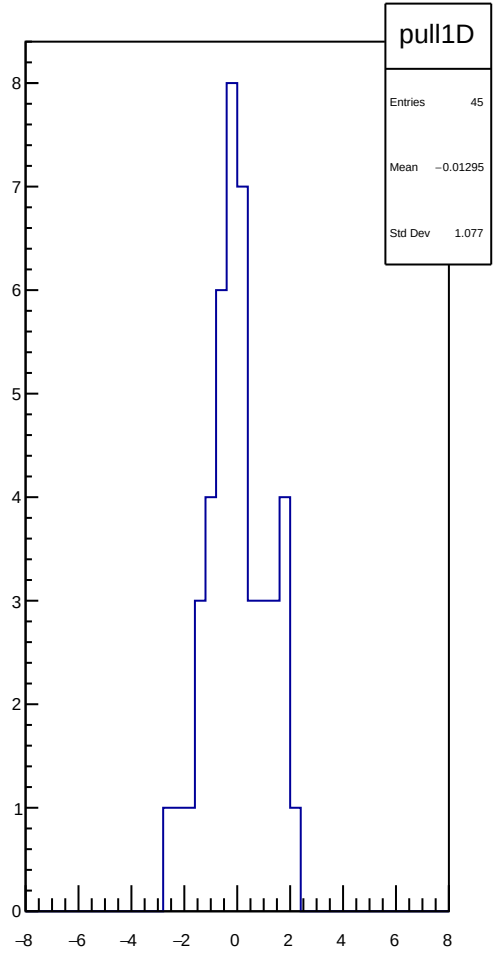
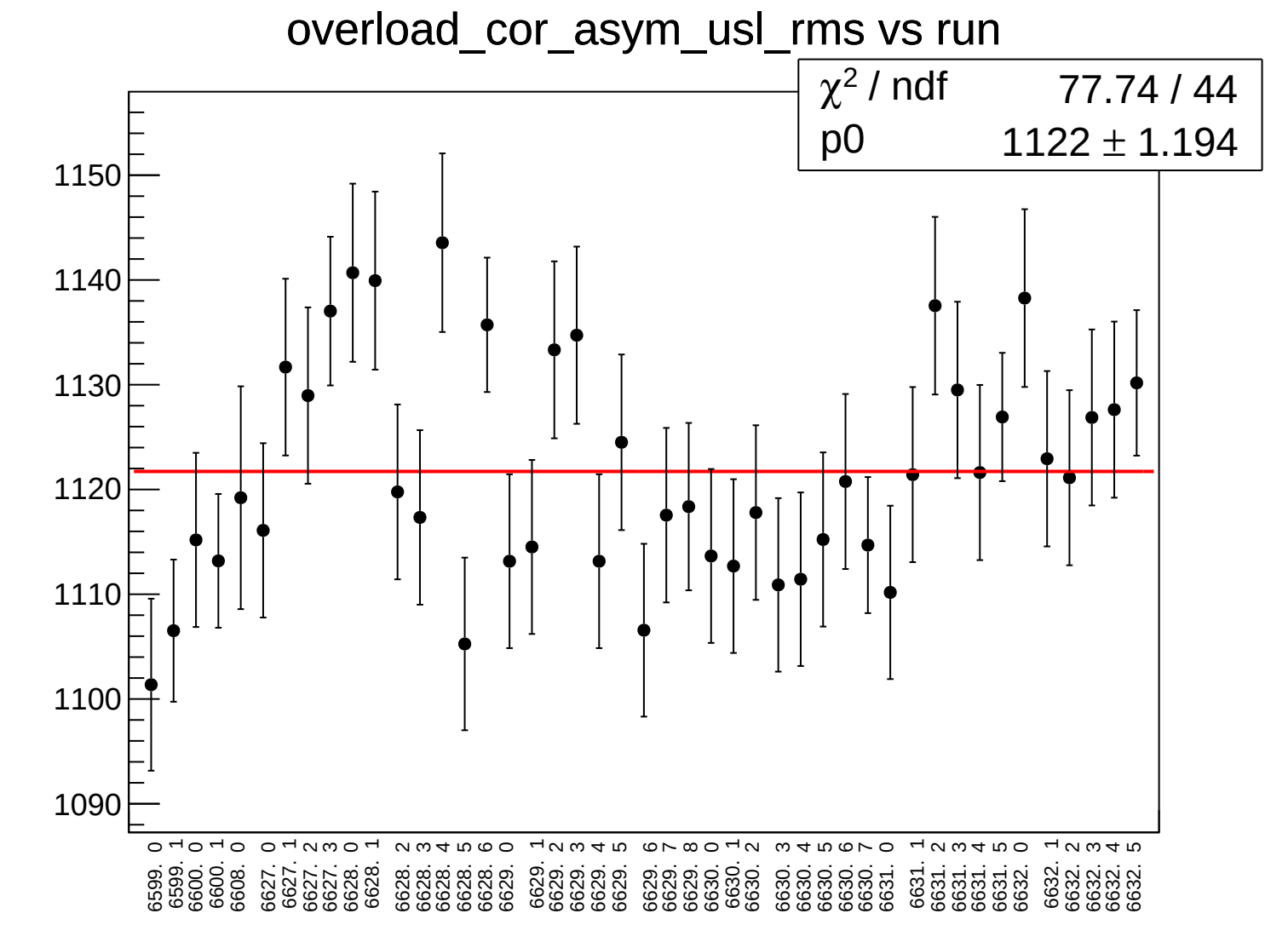
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −331.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.01295
Std Dev 1.077
8
7
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 77.74 / 44
p0 1122 ± 1.194
1150
1140
1130
1120
1110
1100
1090
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6628. 4
6628. 5
6628. 6
6629. 0
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6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
6632. 0
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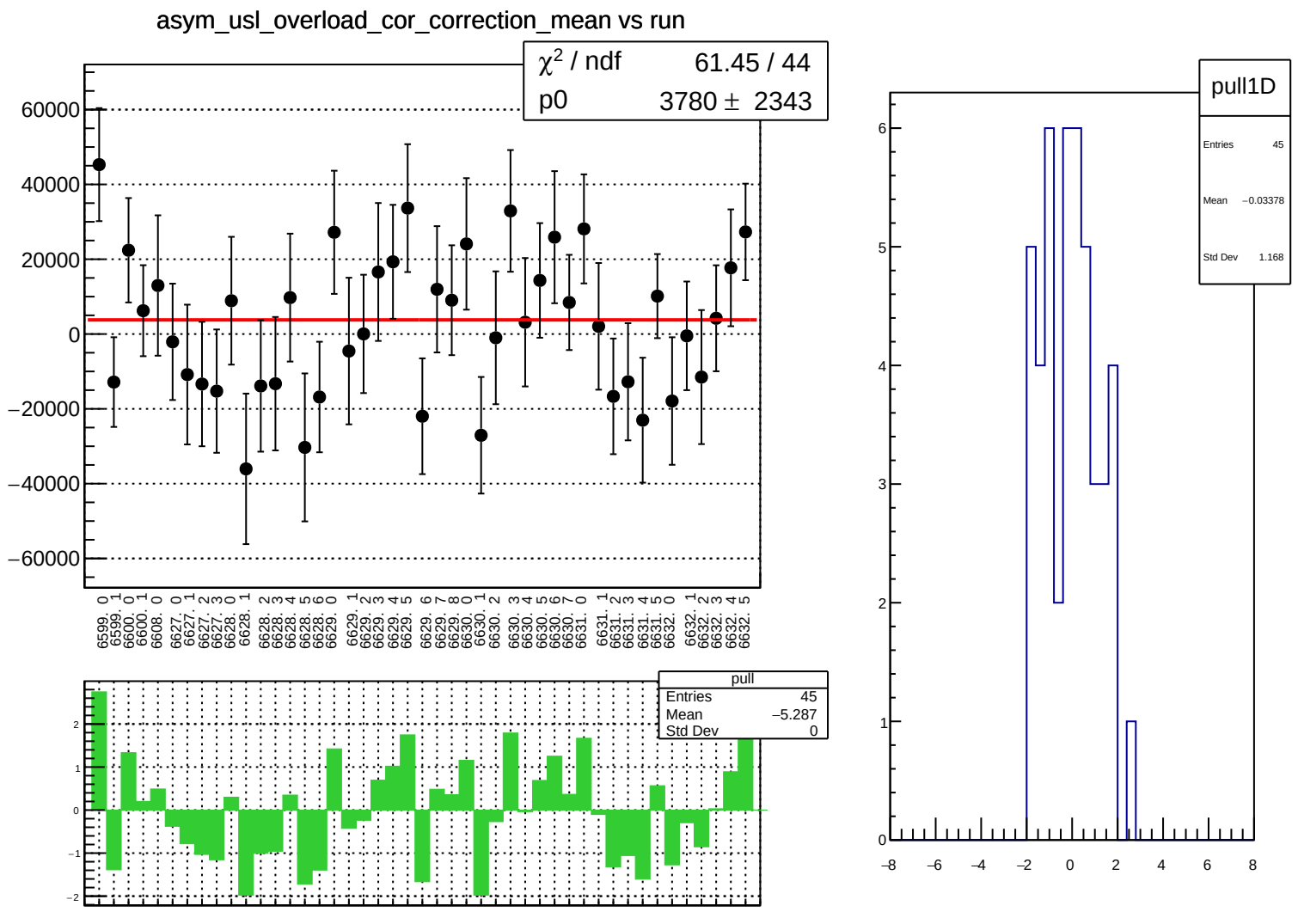
6632. 2
6632. 3
6632. 4
6632. 5


asym_usl_overload_cor_correction_mean vs run
χ² / ndf 61.45 / 44
p0 3780 ± 2343
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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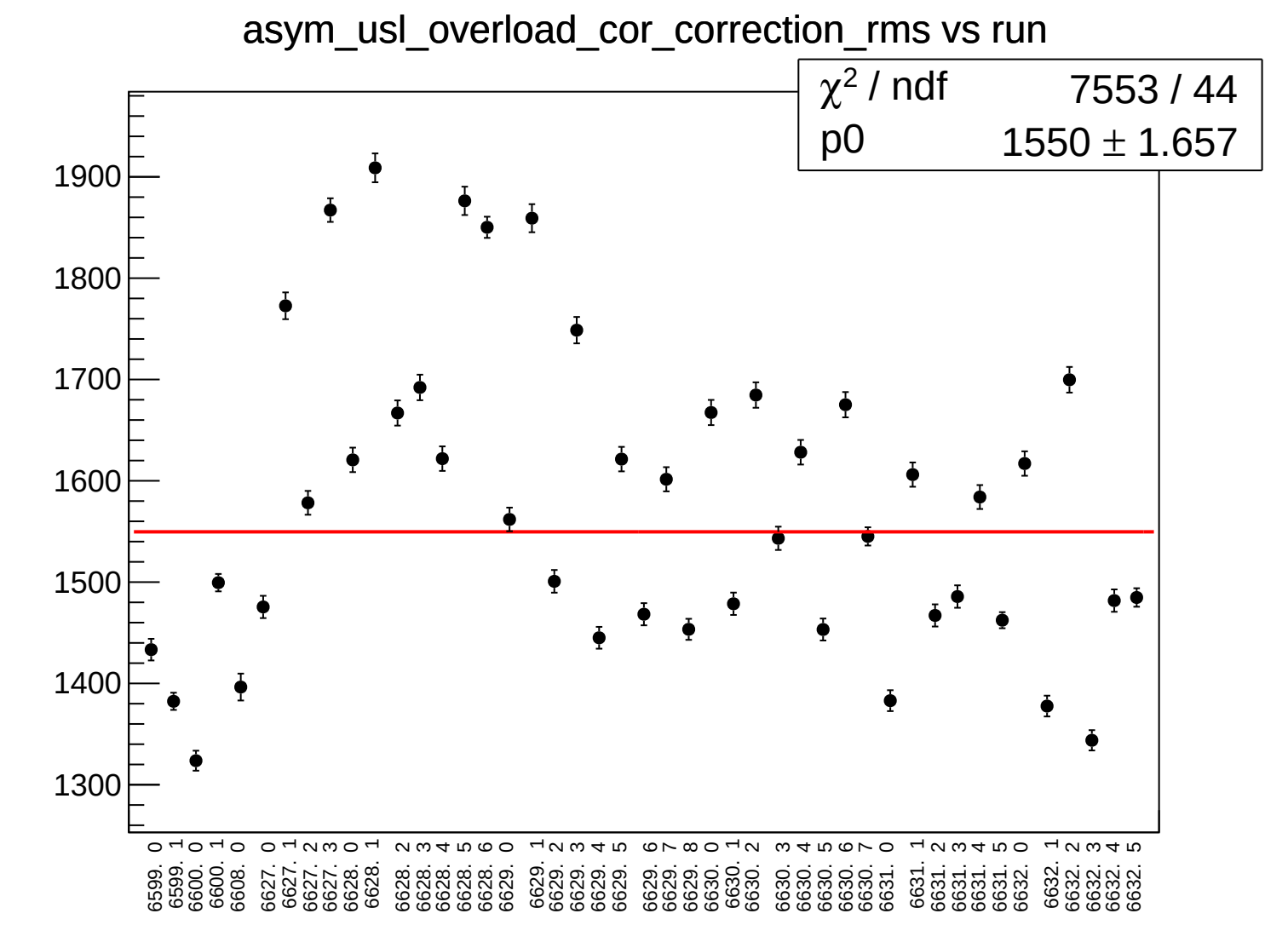
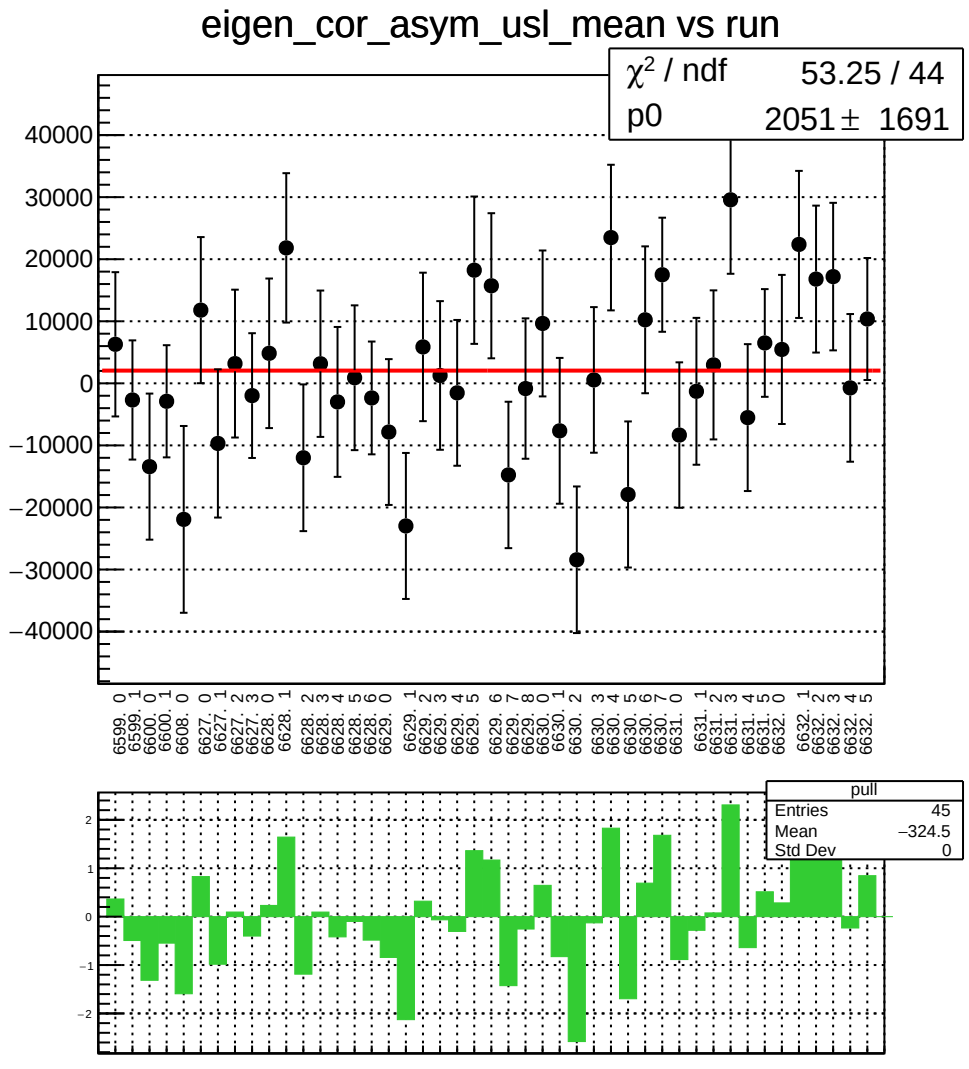
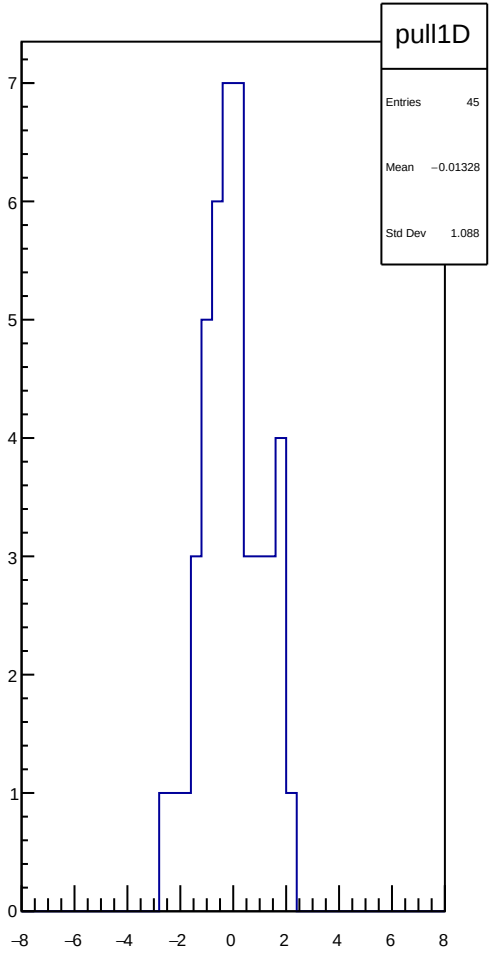
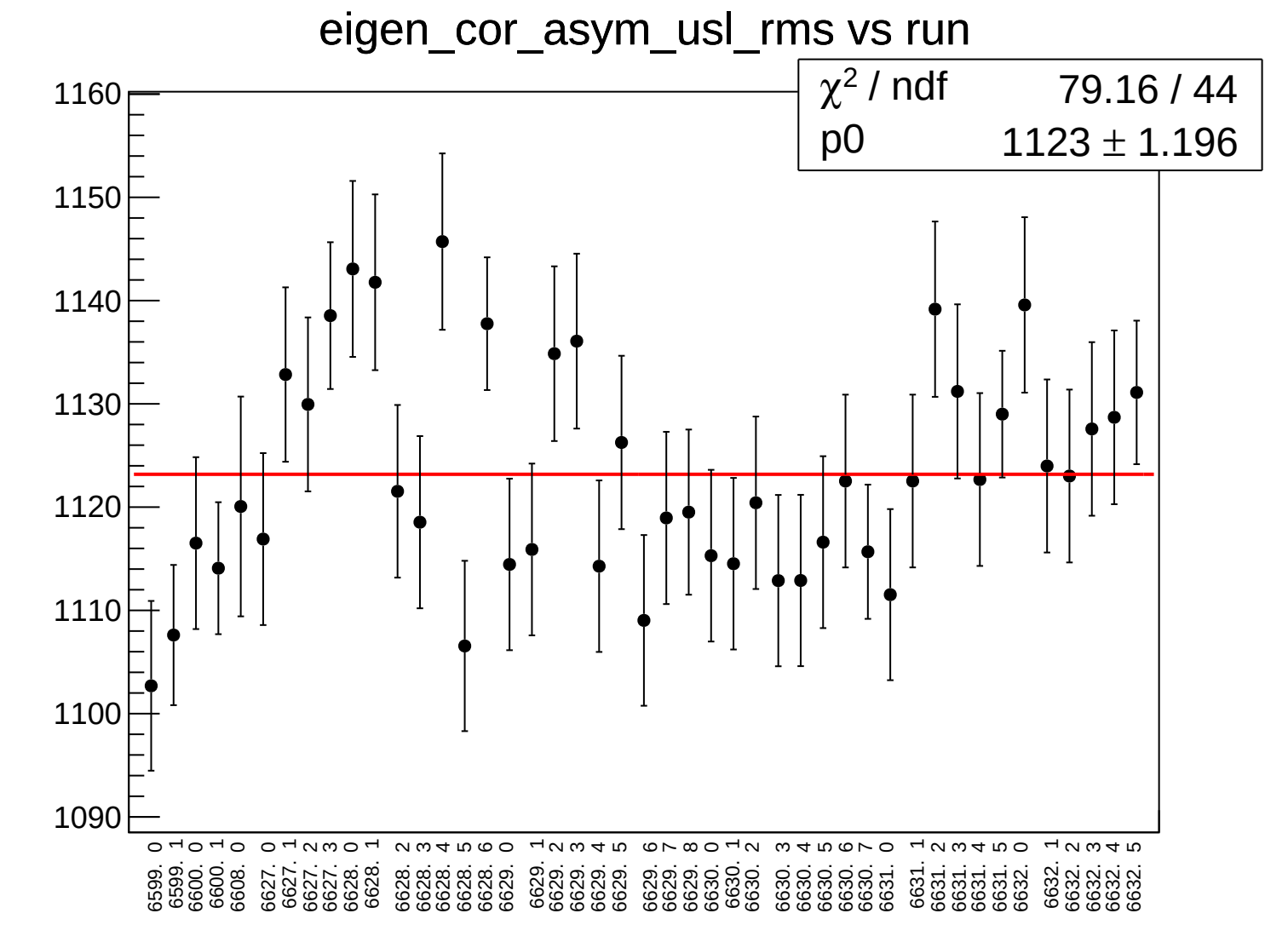
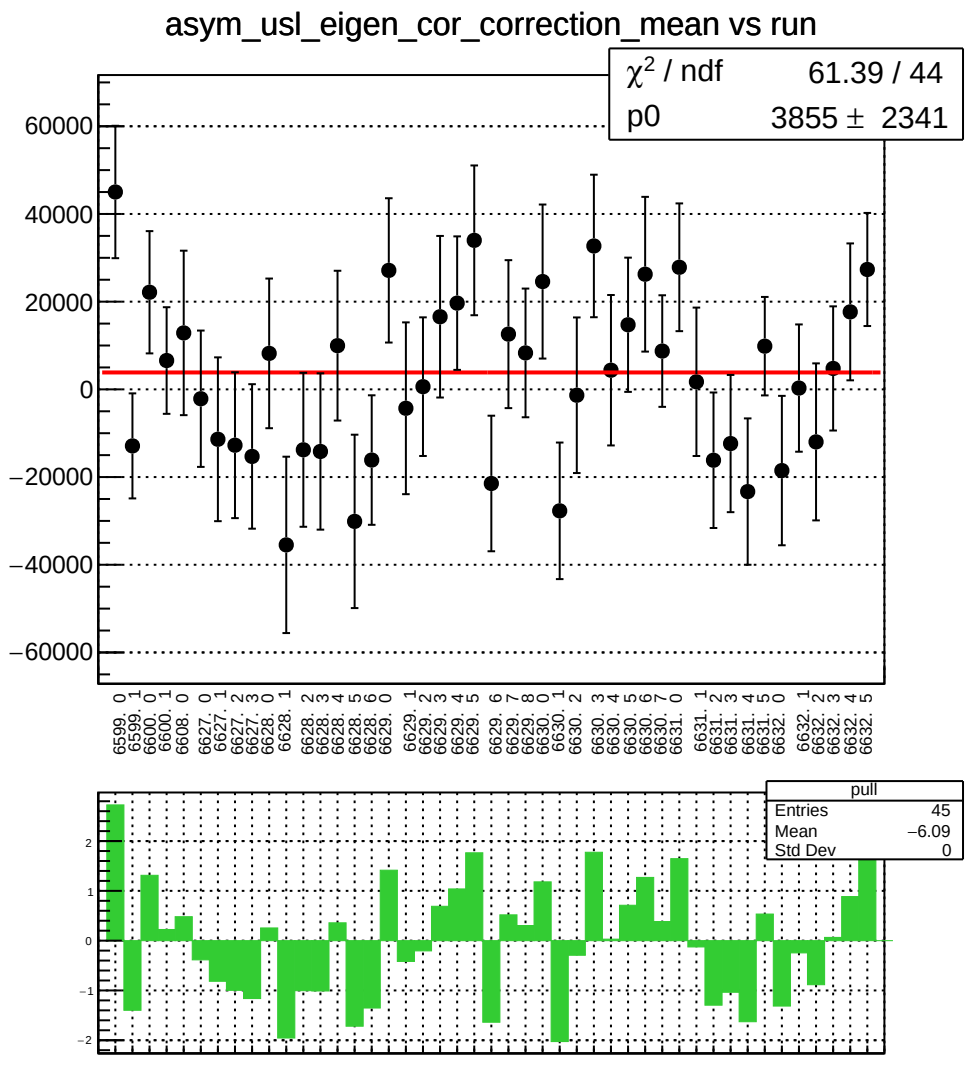
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −5.287
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.03378
Std Dev 1.168
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

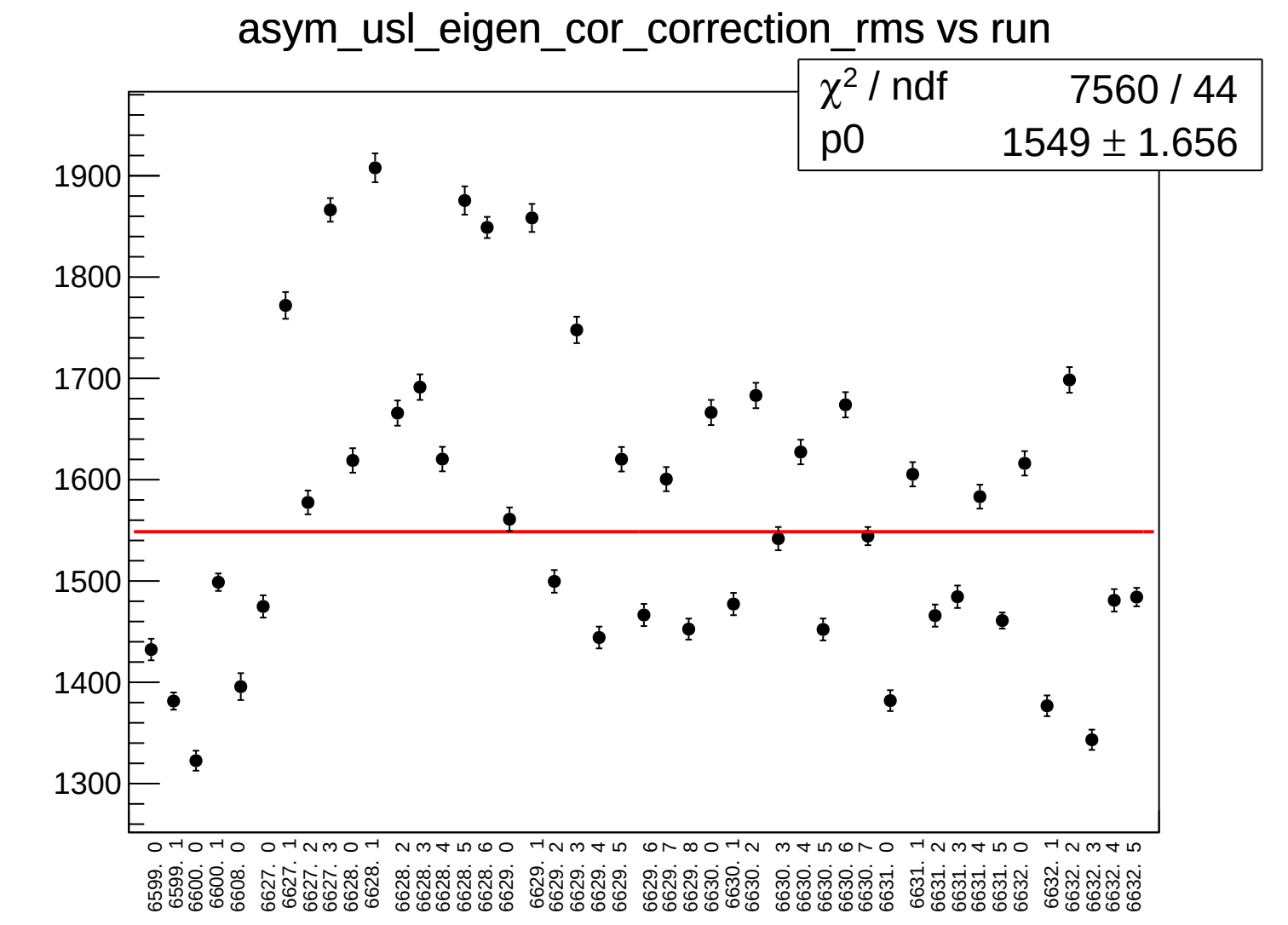

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 7553 / 44
p0 1550 ± 1.657
1900
1800
1700
1600
1500
1400
1300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_cor_asym_usl_mean vs run
χ² / ndf 53.25 / 44
p0 2051 ± 1691
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −324.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.01328
Std Dev 1.088
7
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 79.16 / 44
p0 1123 ± 1.196
1160
1150
1140
1130
1120
1110
1100
1090
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 61.39 / 44
p0 3855 ± 2341
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −6.09
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.03386
Std Dev 1.168
7
6
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 7560 / 44
p0 1549 ± 1.656
1900
1800
1700
1600
1500
1400
1300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
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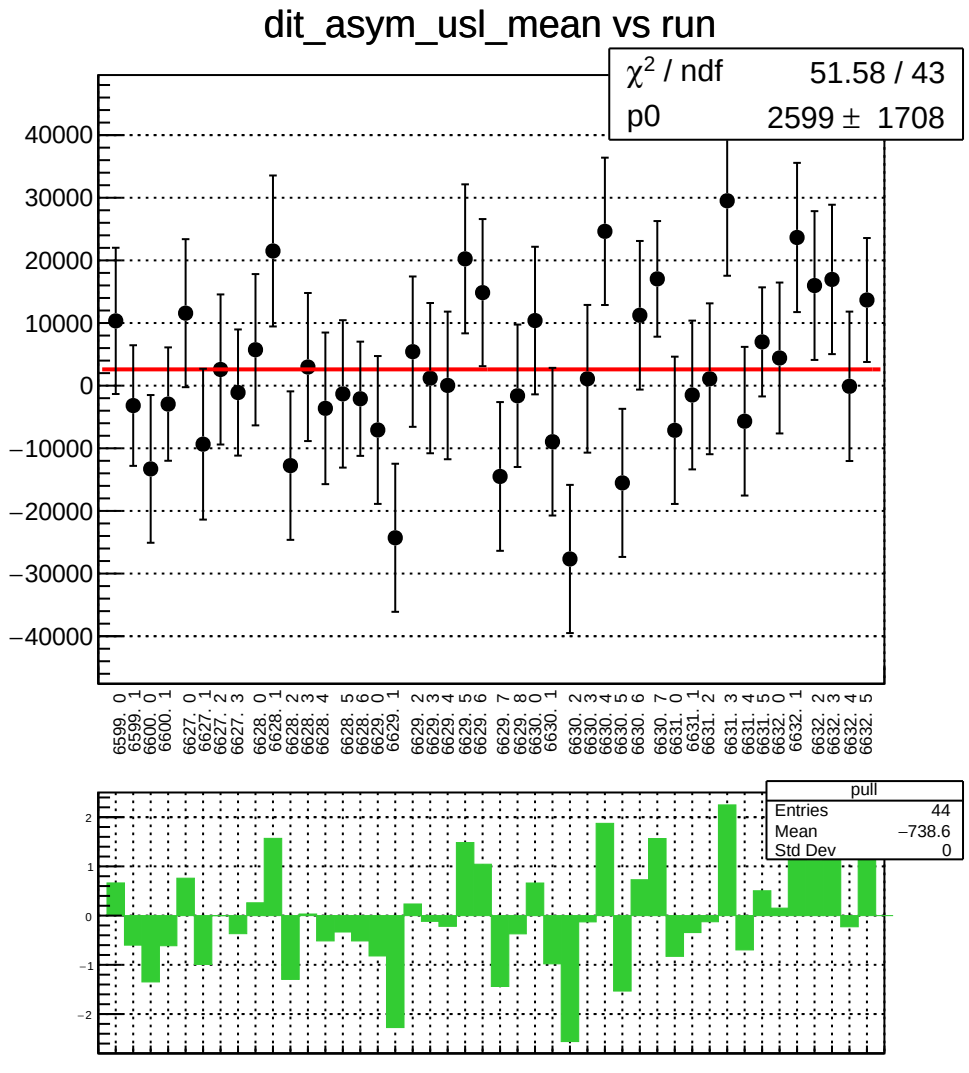
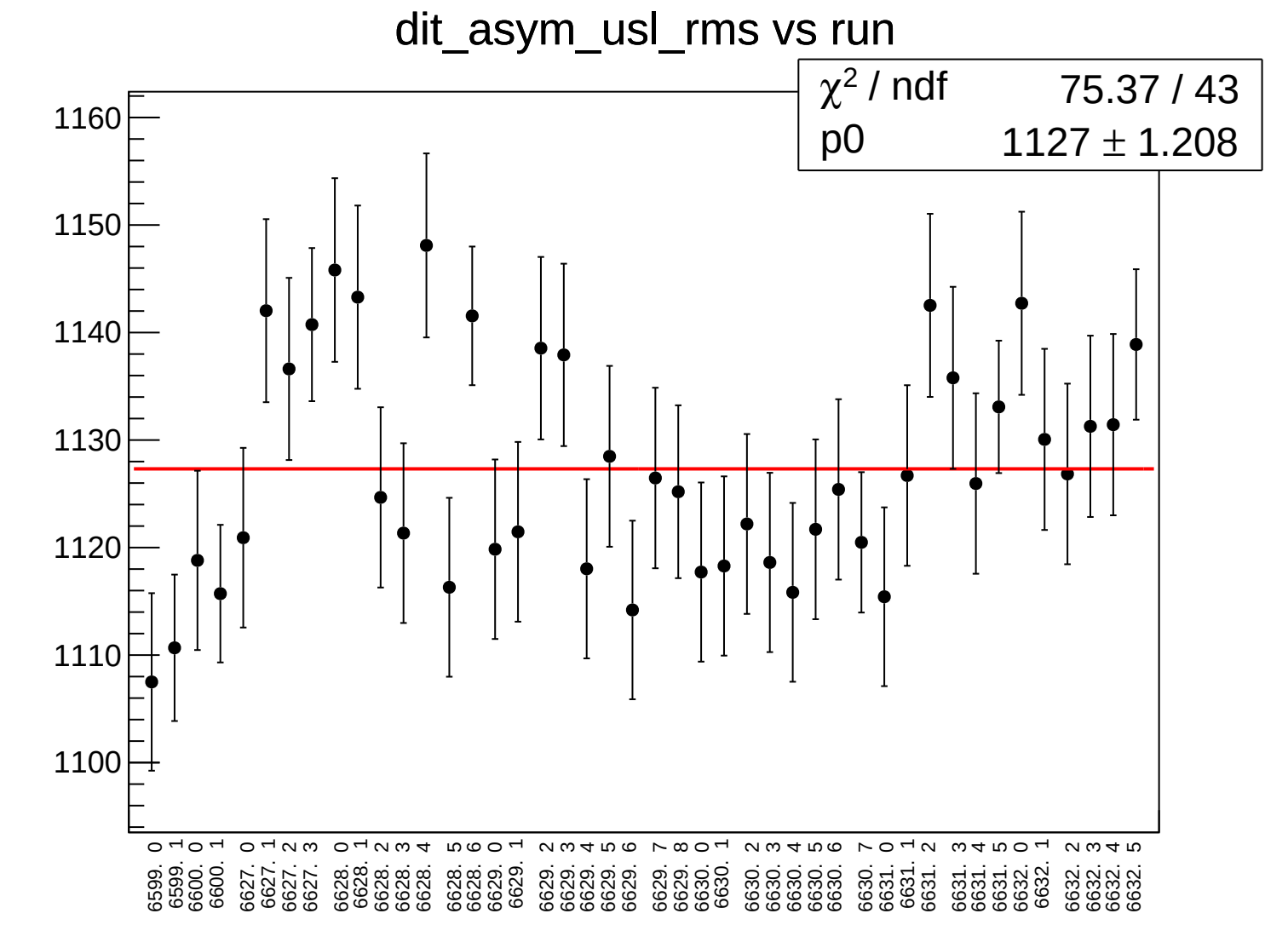
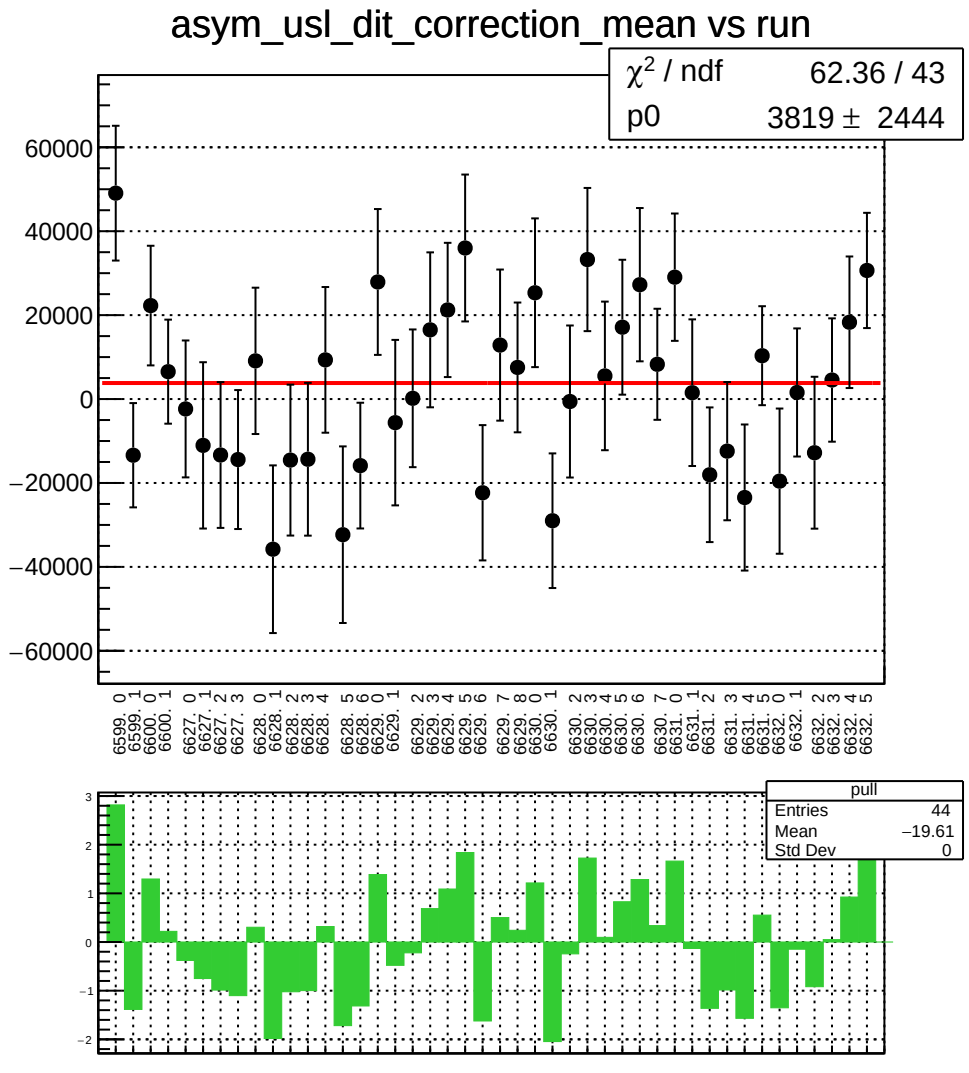
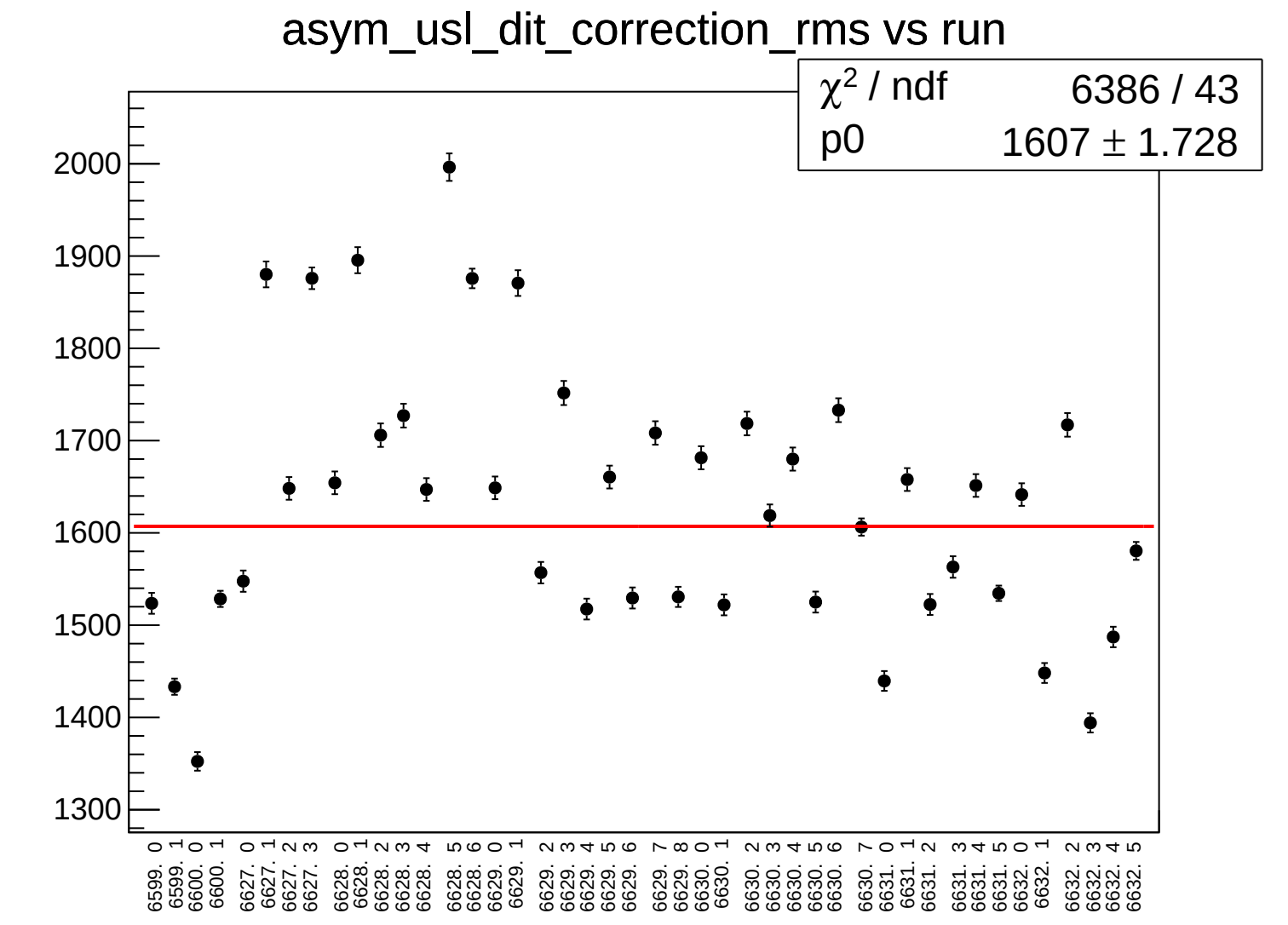
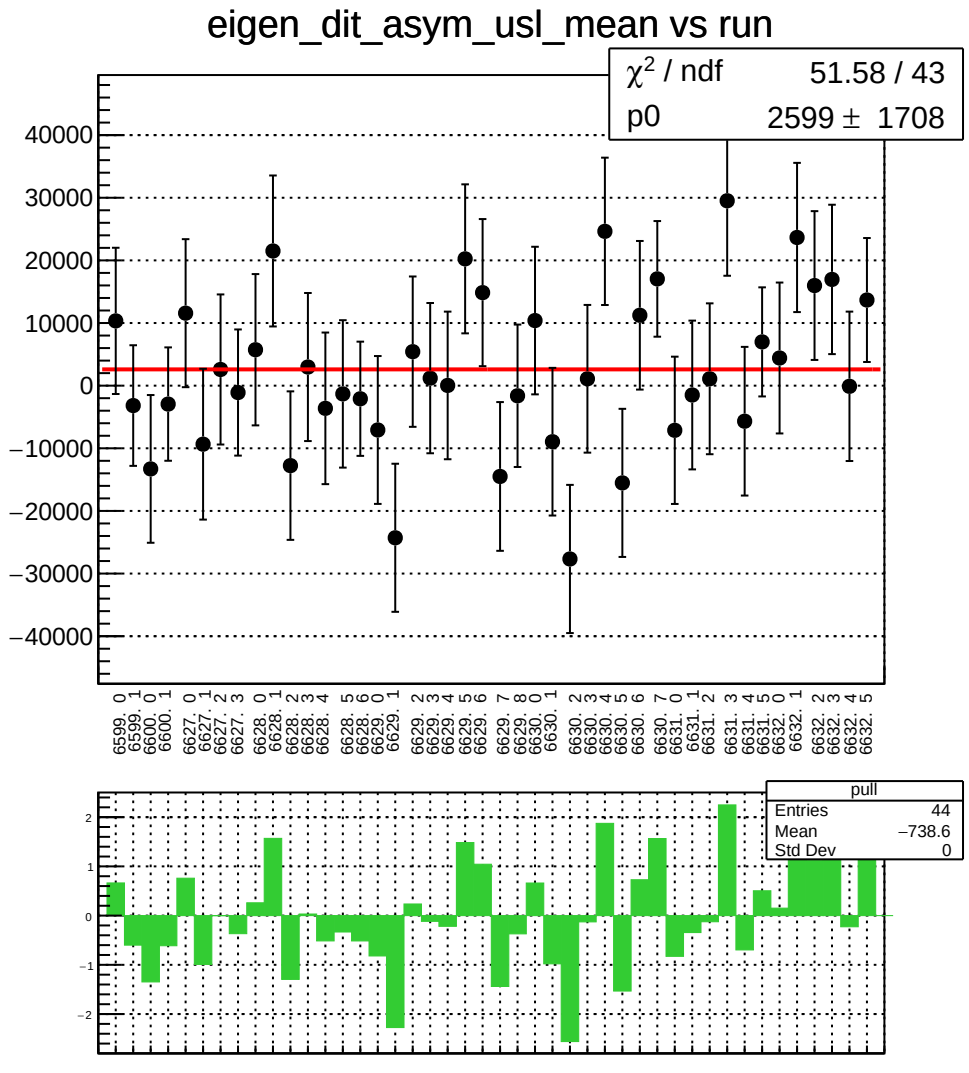
6632. 4
6632. 5

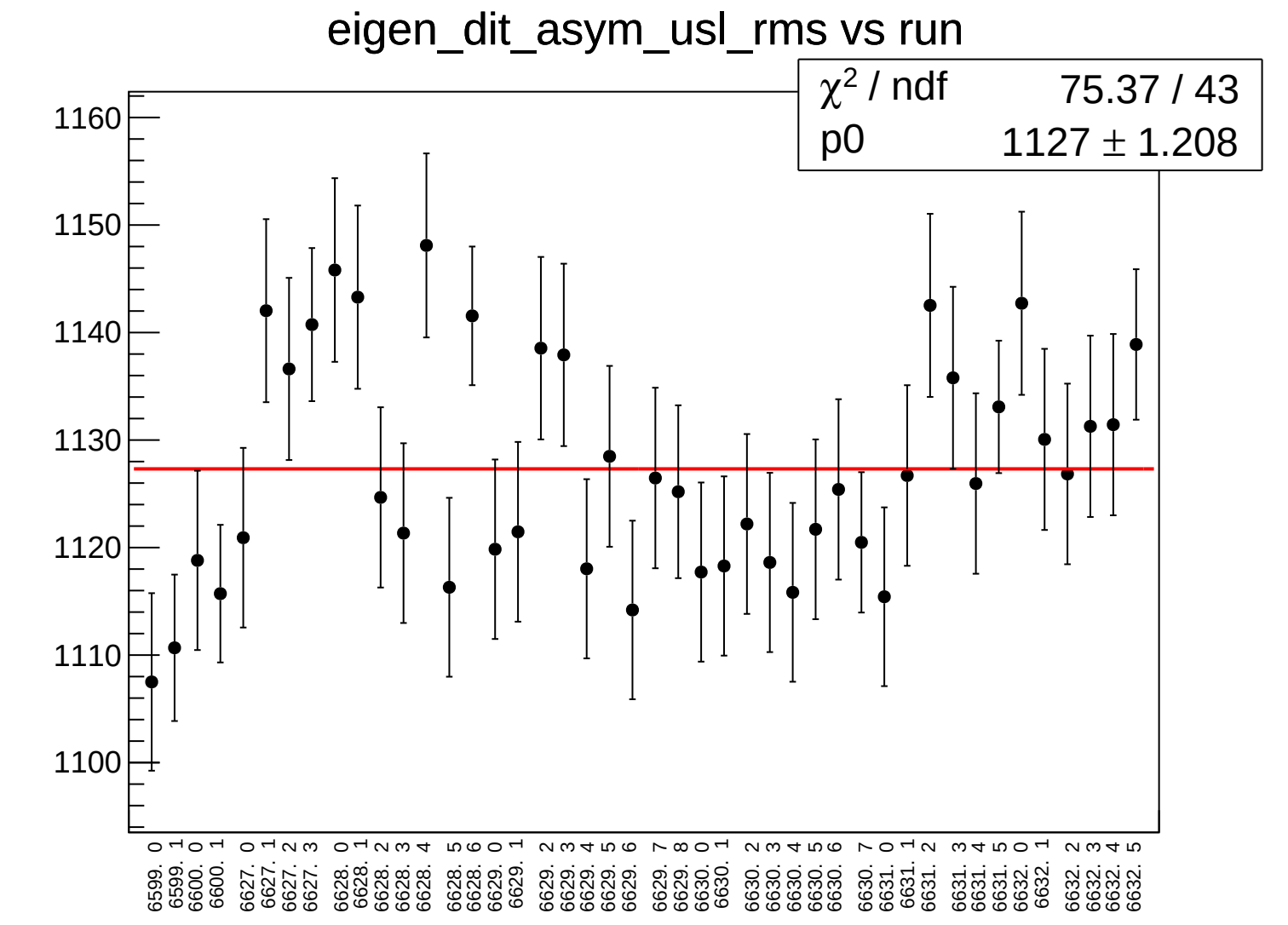

dit_asym_usl_mean vs run
$\chi^2$ / ndf 51.58 / 43
p0 2599 ± 1708
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 44
Mean −738.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 44
Mean −0.005365
Std Dev 1.083
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_usl_rms vs run
χ² / ndf 75.37 / 43
p0 1127 ± 1.208
1160
1150
1140
1130
1120
1110
1100
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_usl_dit_correction_mean vs run
χ² / ndf 62.36 / 43
p0 3819 ± 2444
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 44
Mean −19.61
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 44
Mean −0.03167
Std Dev 1.19
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_dit_correction_rms vs run
χ² / ndf 6386 / 43
p0 1607 ± 1.728
2000
1900
1800
1700
1600
1500
1400
1300
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_usl_mean vs run
χ² / ndf 51.58 / 43
p0 2599 ± 1708
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 44
Mean −738.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 44
Mean −0.005365
Std Dev 1.083
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_usl_rms vs run
χ² / ndf 75.37 / 43
p0 1127 ± 1.208
1160
1150
1140
1130
1120
1110
1100
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
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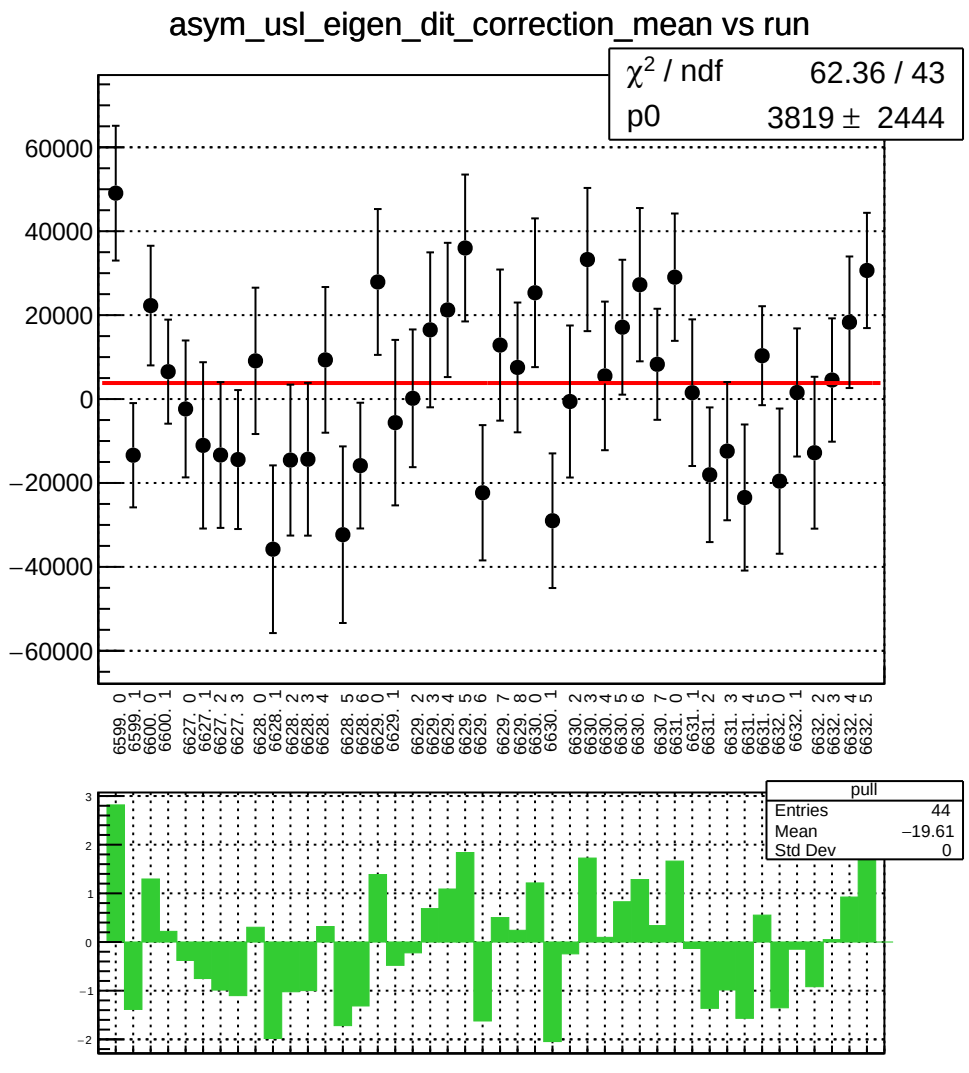
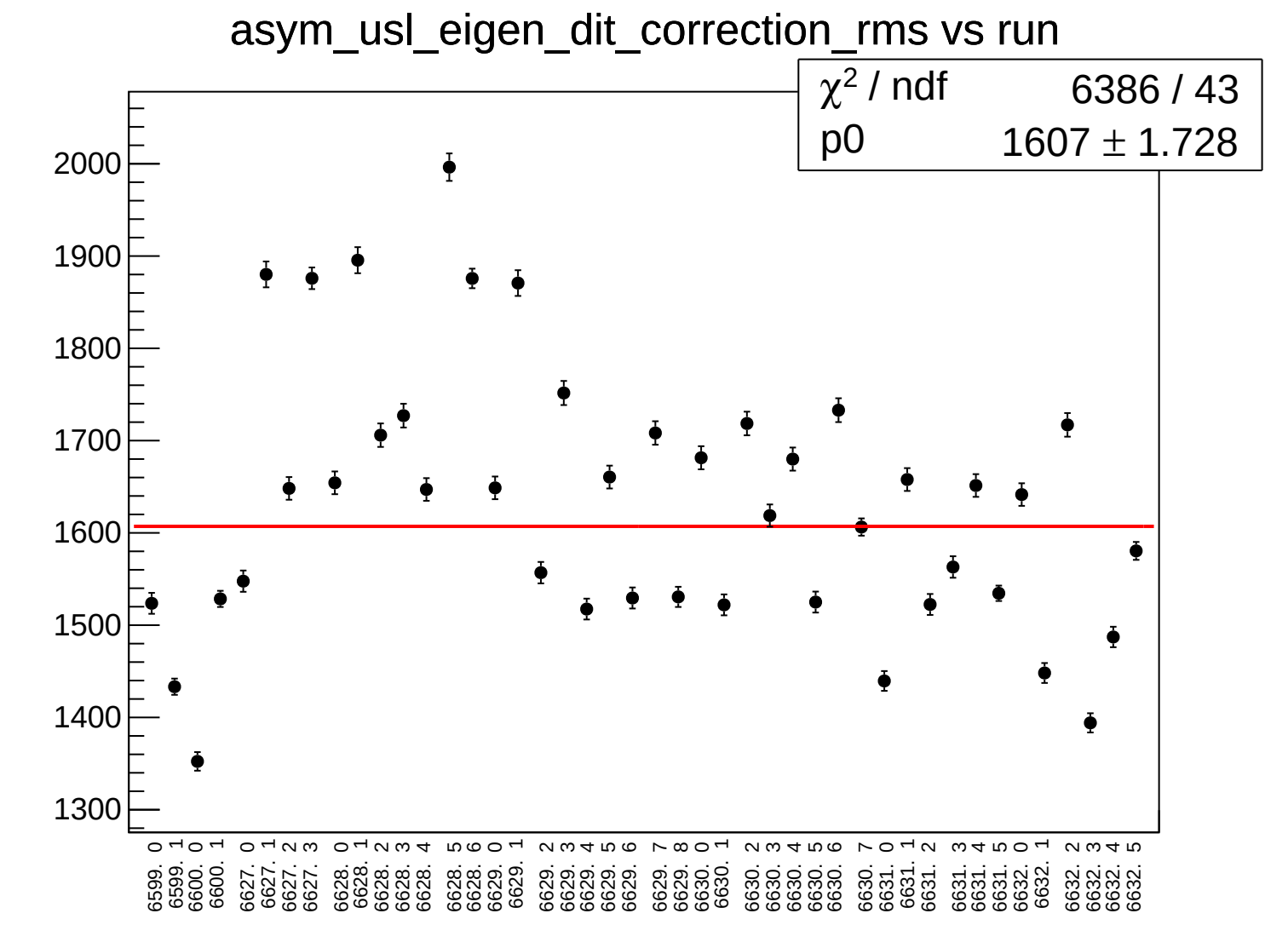
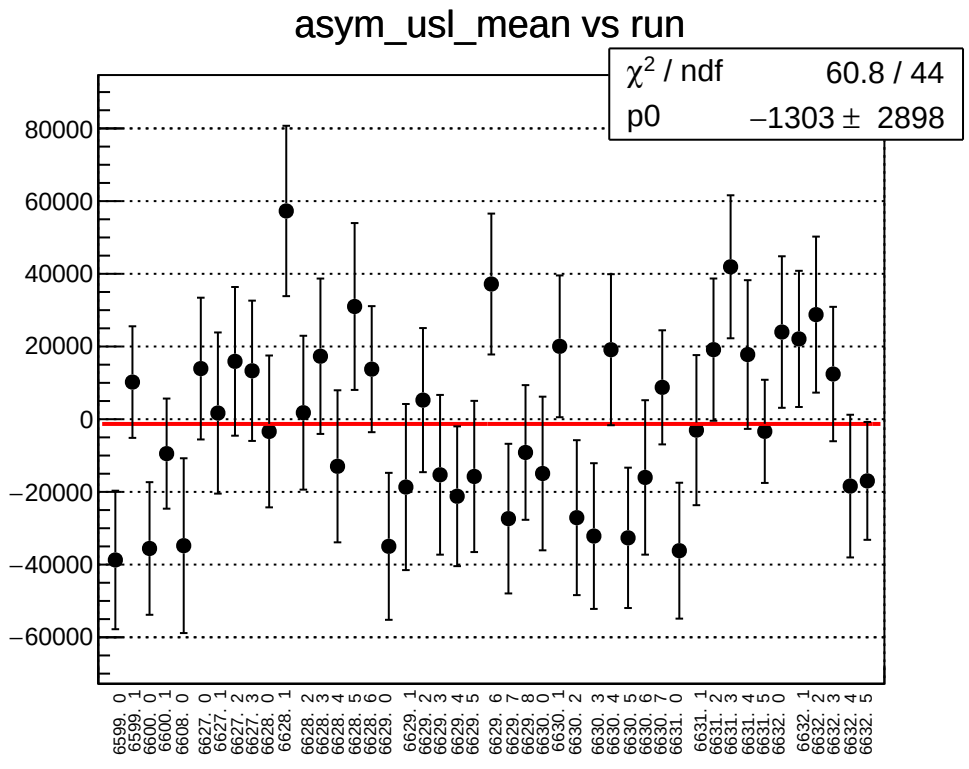
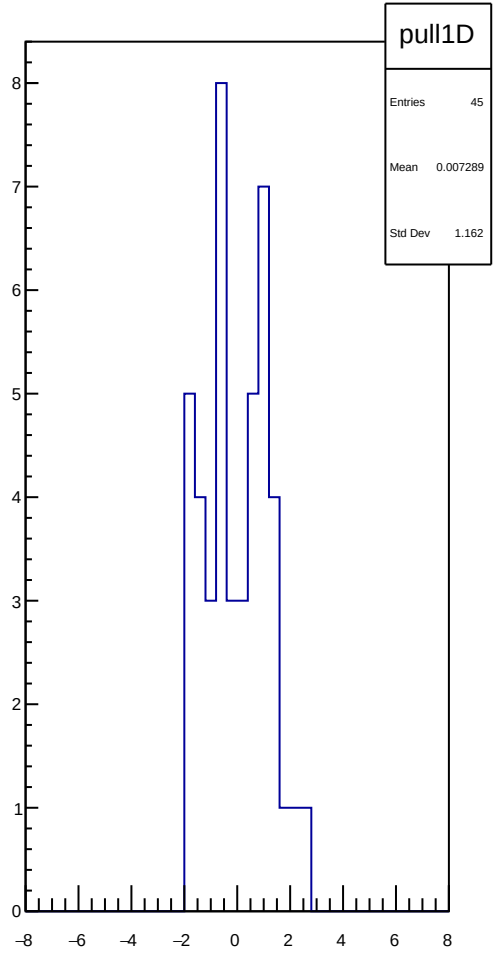
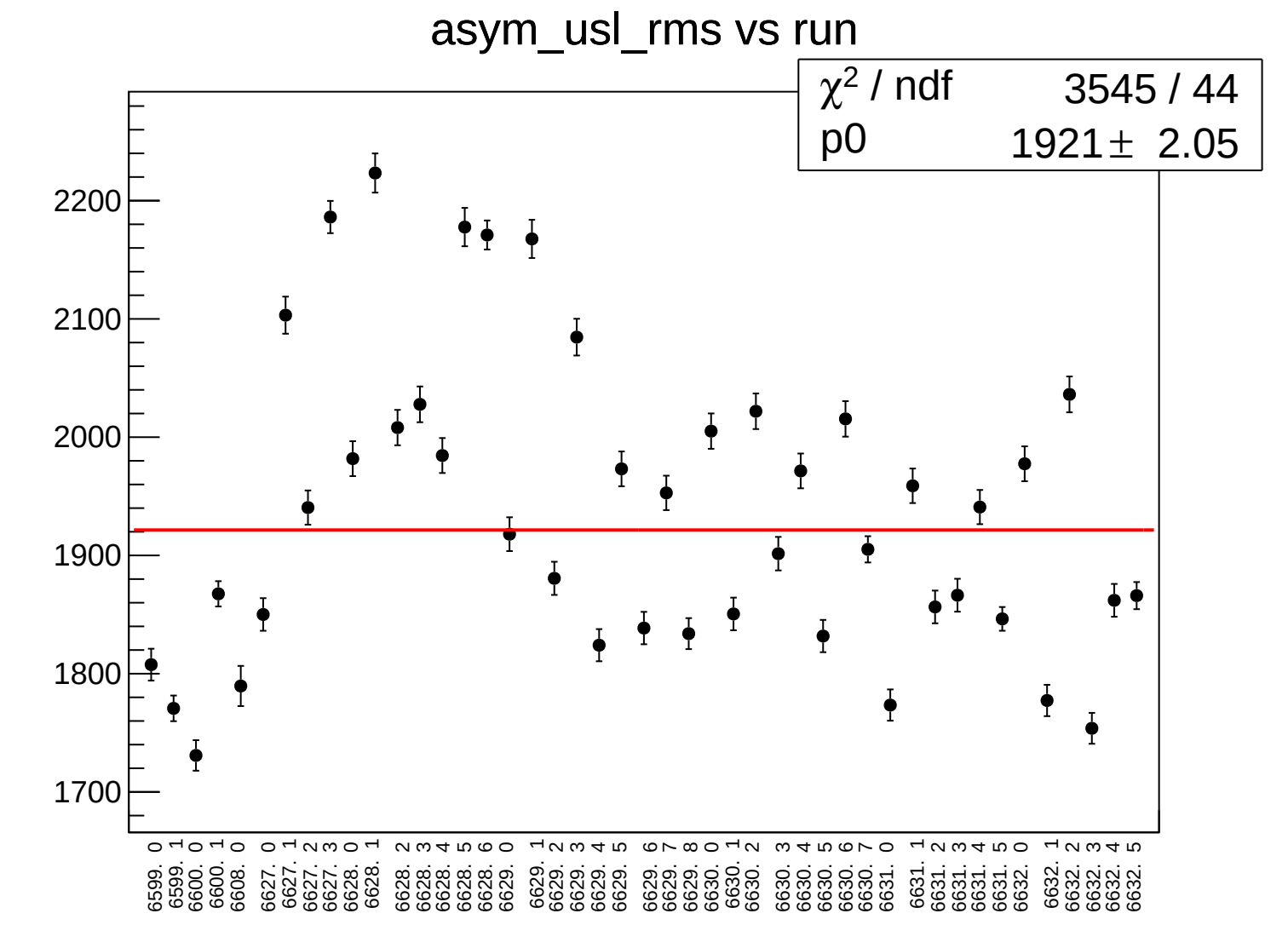
6632. 2
6632. 3
6632. 4
6632. 5

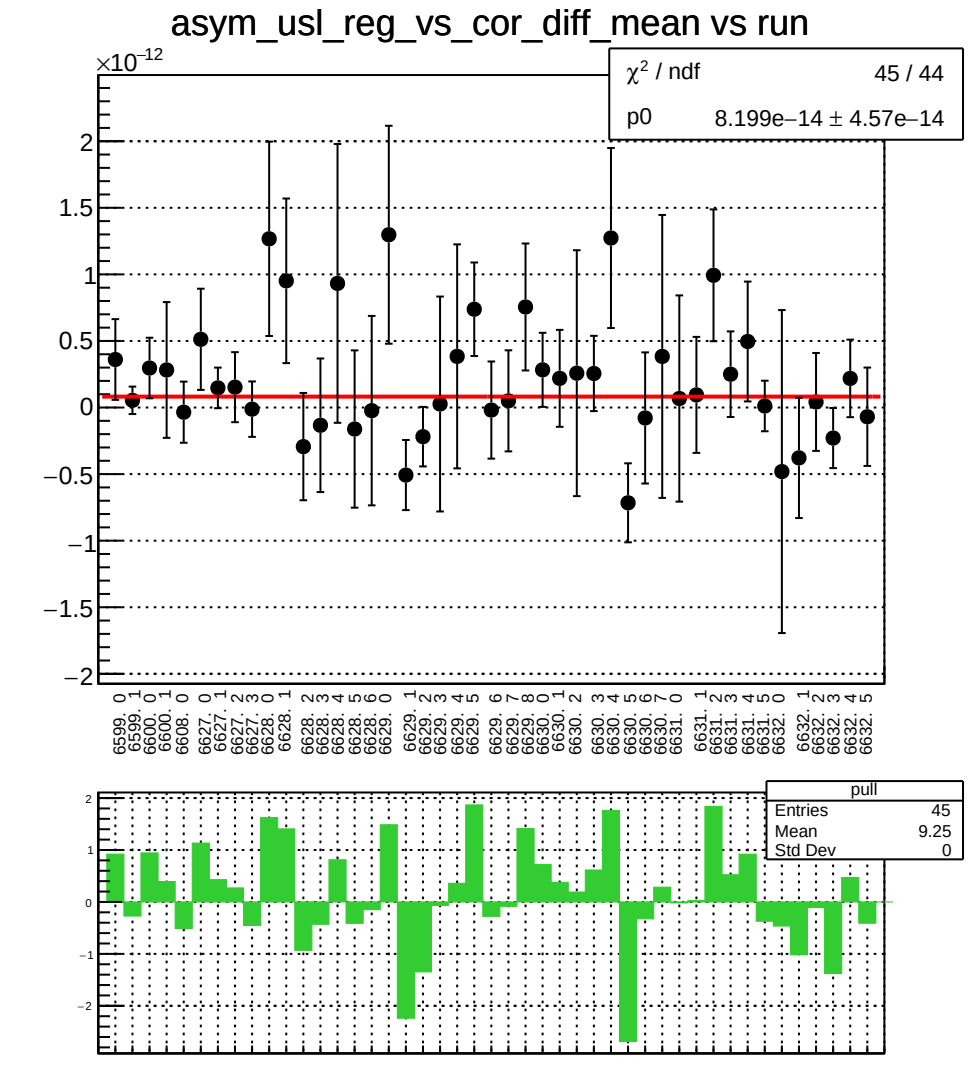

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 62.36 / 43
p0 3819 ± 2444
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 44
Mean −19.61
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 44
Mean −0.03167
Std Dev 1.19
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

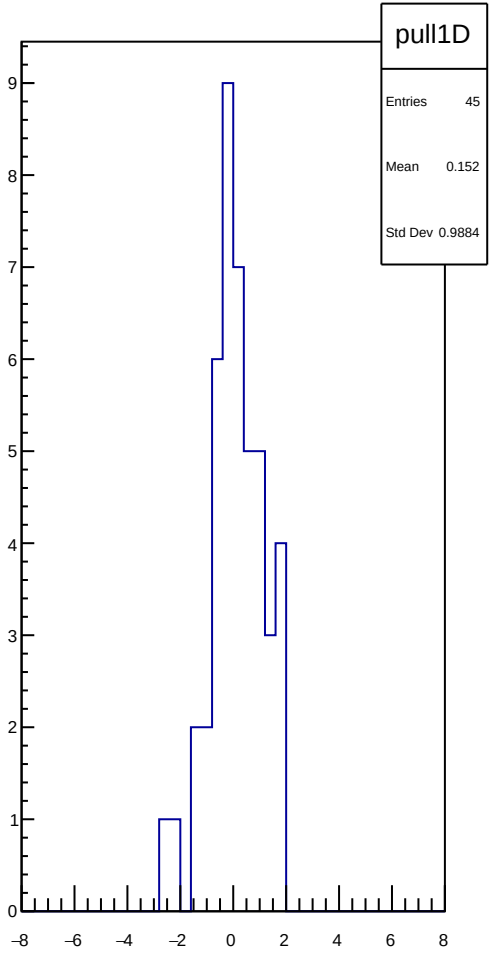

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 6386 / 43
p0 1607 ± 1.728
2000
1900
1800
1700
1600
1500
1400
1300
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

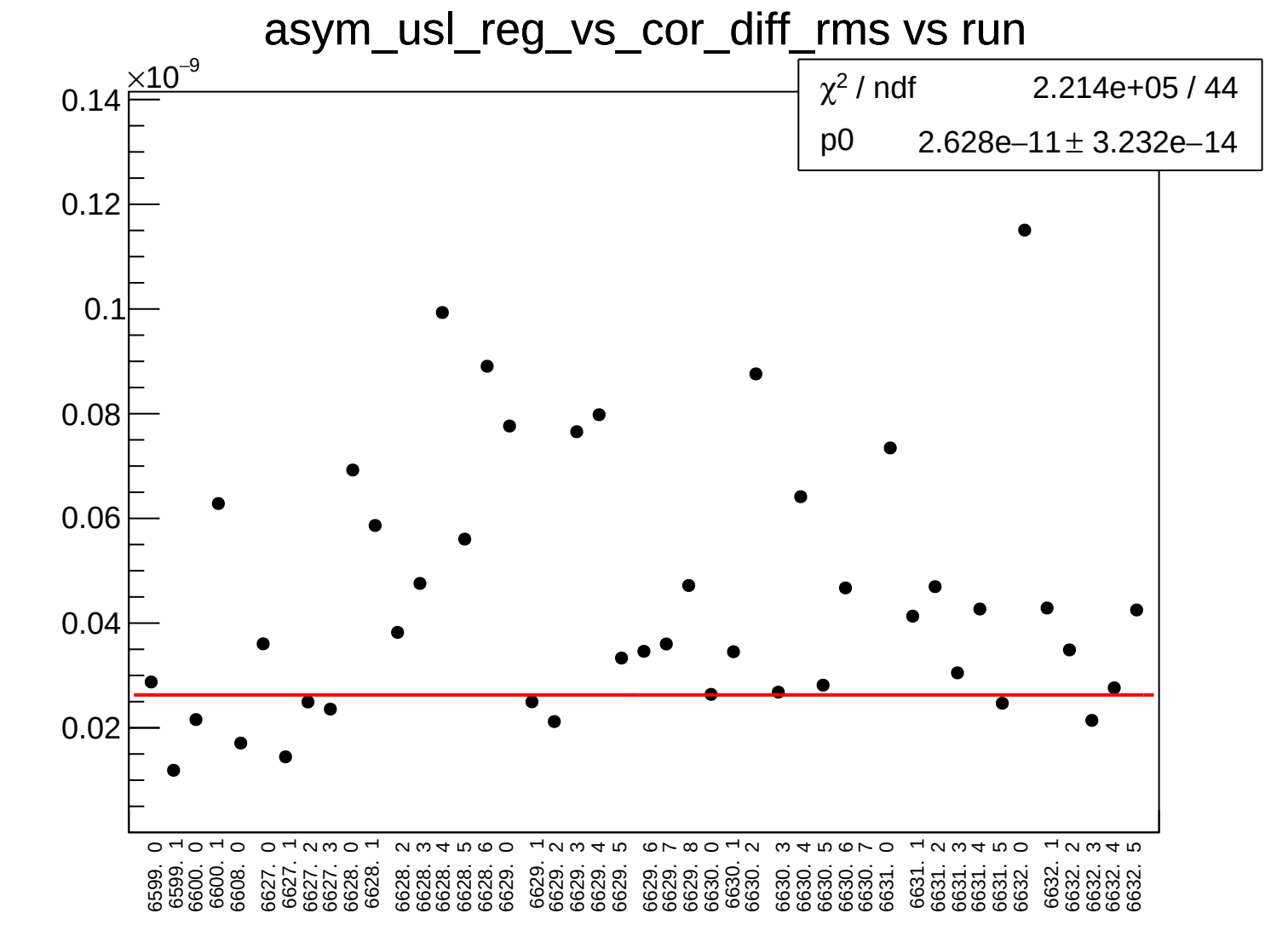

asym_usl_mean vs run
χ² / ndf 60.8 / 44
p0 −1303 ± 2898
80000
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 285
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

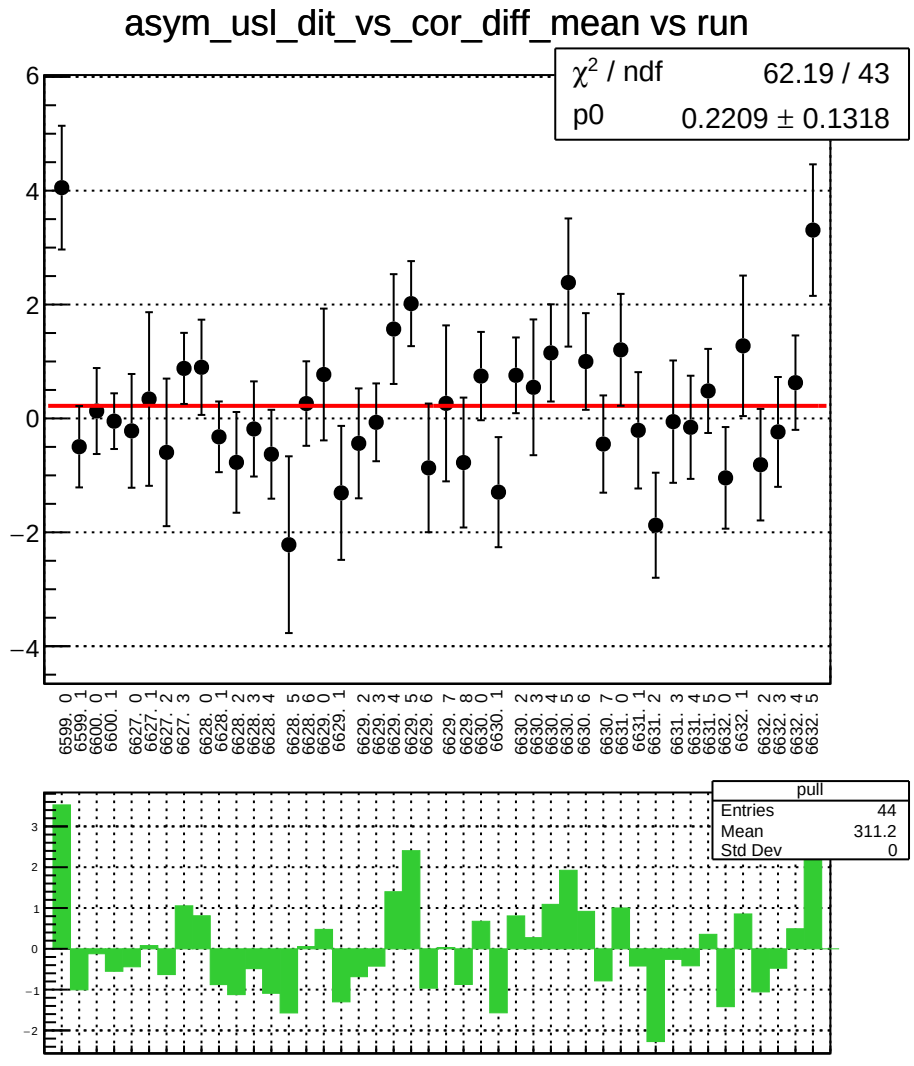

pull1D
Entries 45
Mean 0.007289
Std Dev 1.162
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

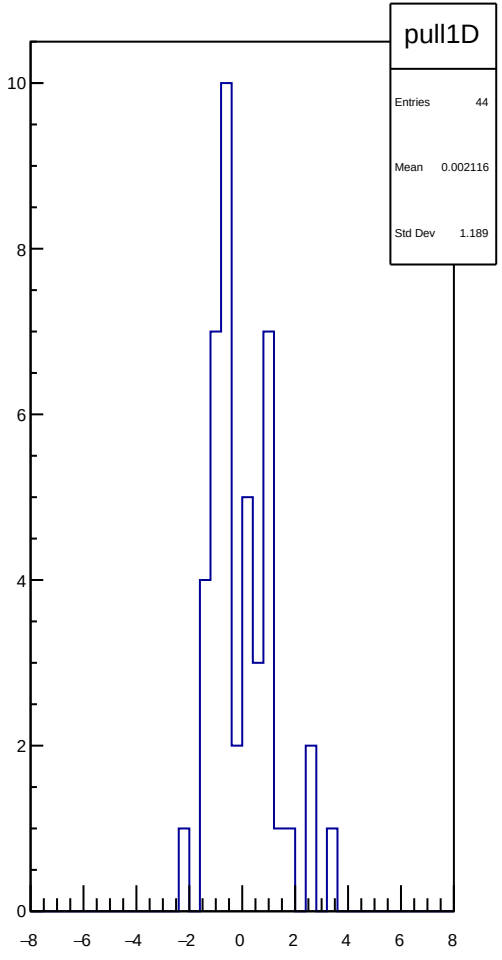

asym_usl_rms vs run
χ² / ndf 3545 / 44
p0 1921 ± 2.05
2200
2100
2000
1900
1800
1700
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

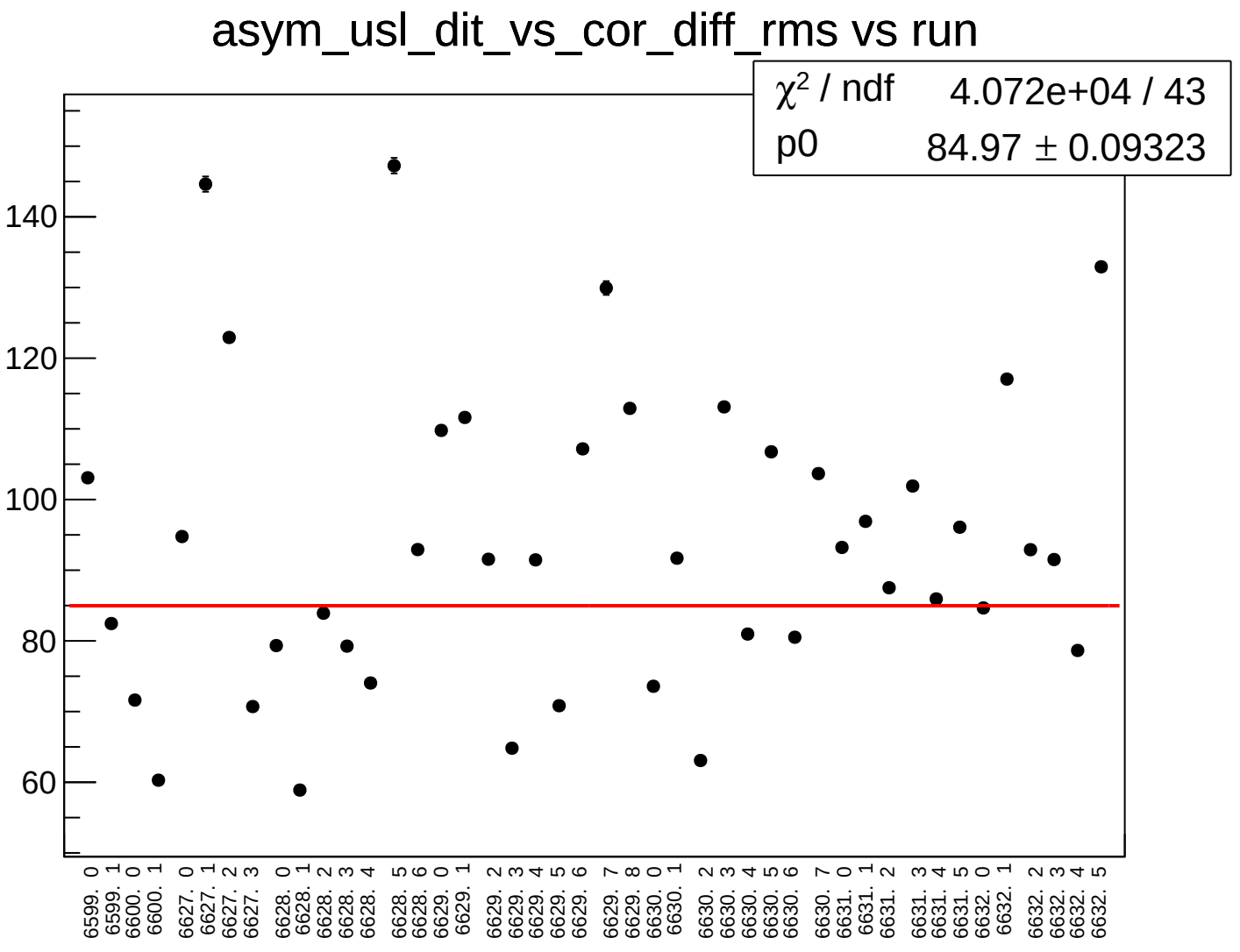

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 45 / 44
p0 8.199e−14 ± 4.57e−14
pull
Entries 45
Mean 9.25
Std Dev 0

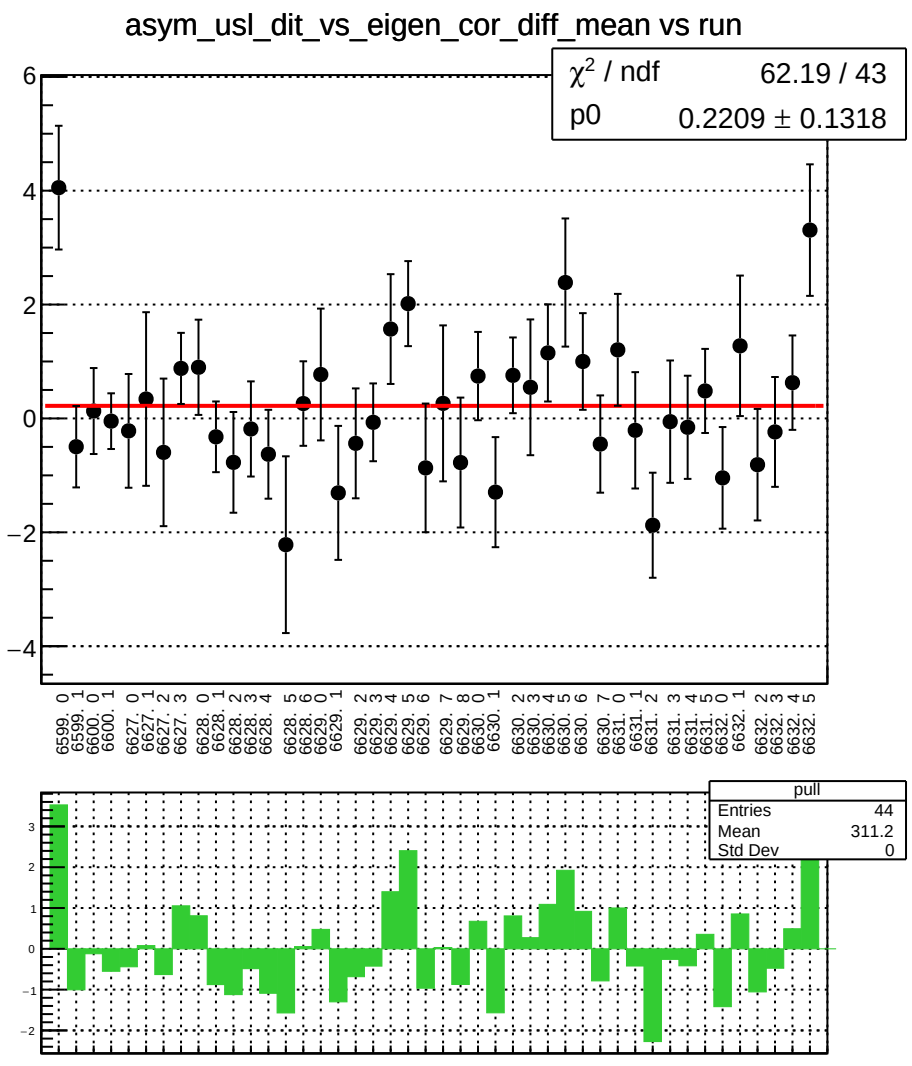

pull1D
Entries 45
Mean 0.152
Std Dev 0.9884

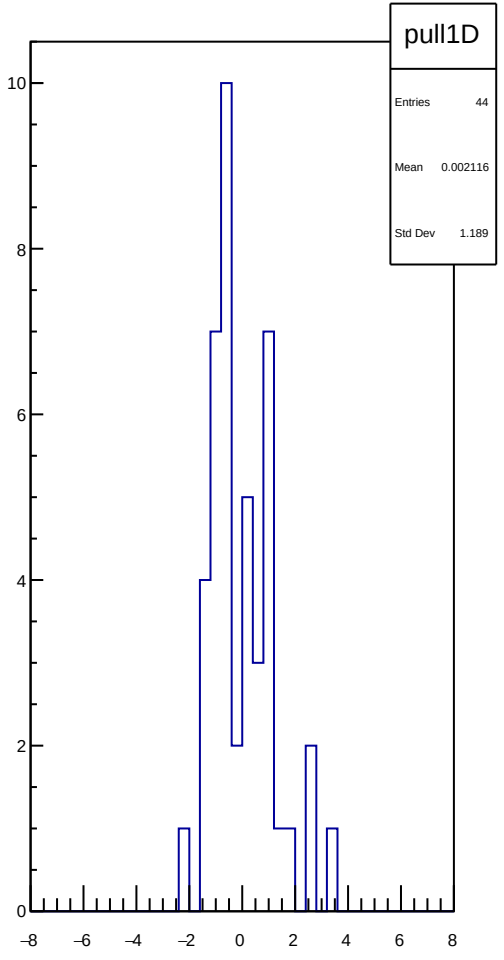

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.214e+05 / 44
p0 2.628e−11 ± 3.232e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

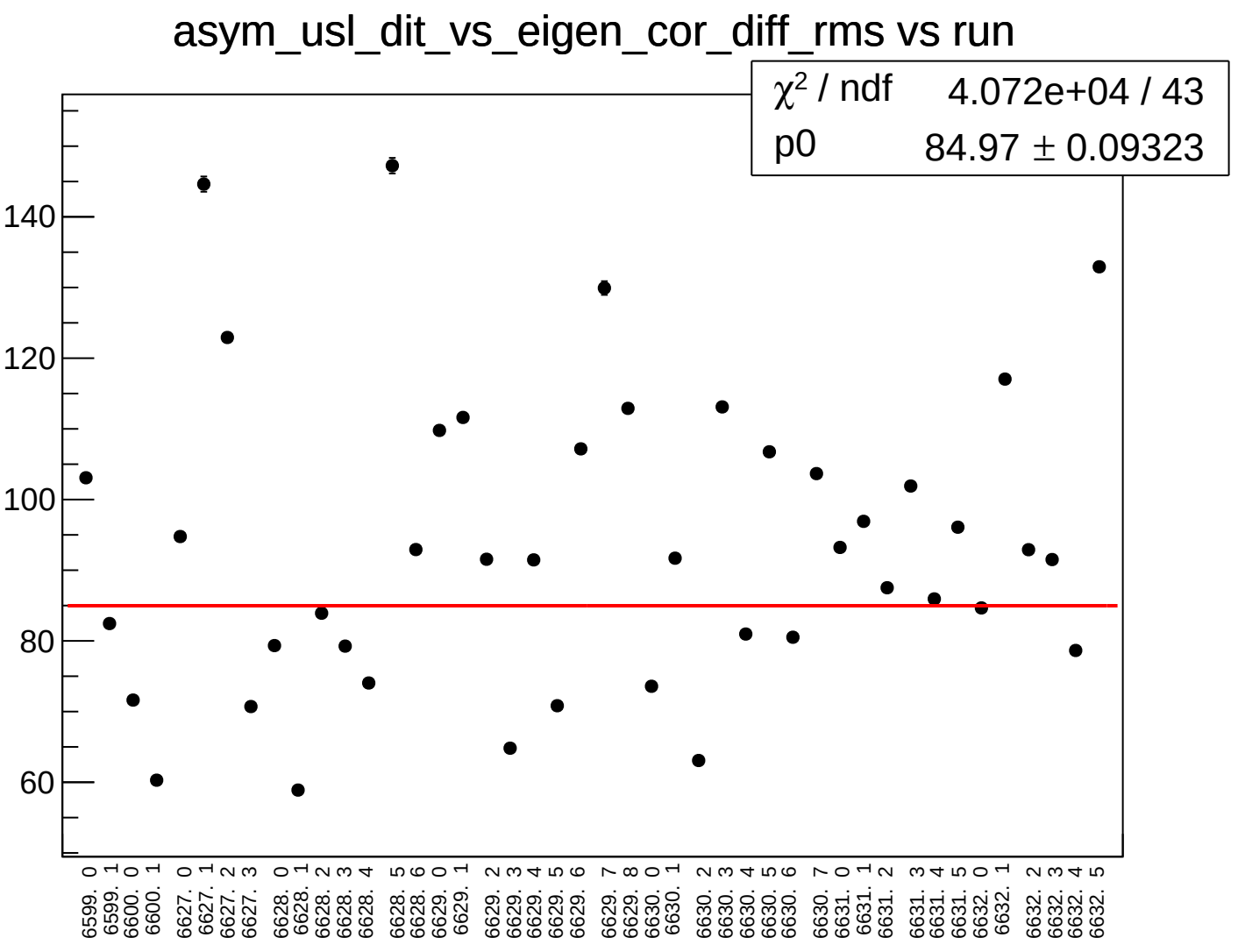

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 62.19 / 43
p0 0.2209 ± 0.1318
pull
Entries 44
Mean 311.2
Std Dev 0

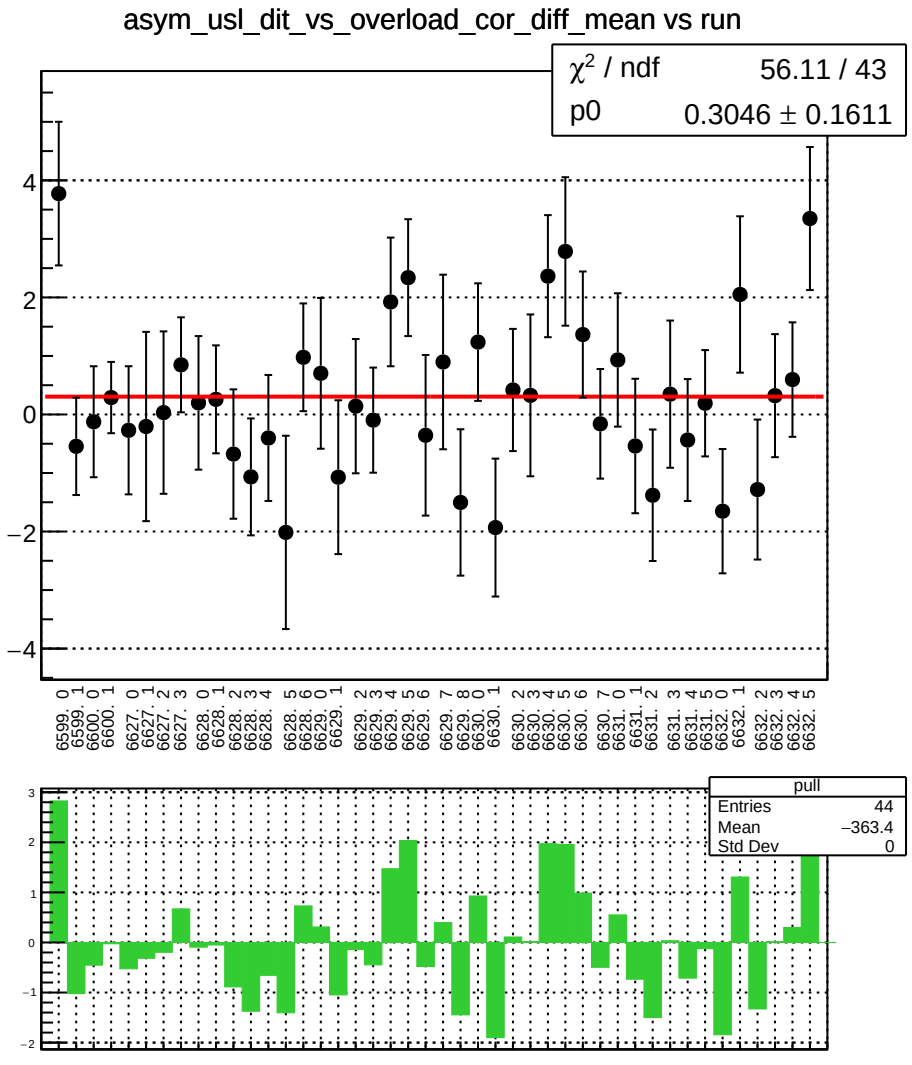

pull1D
Entries 44
Mean 0.002116
Std Dev 1.189

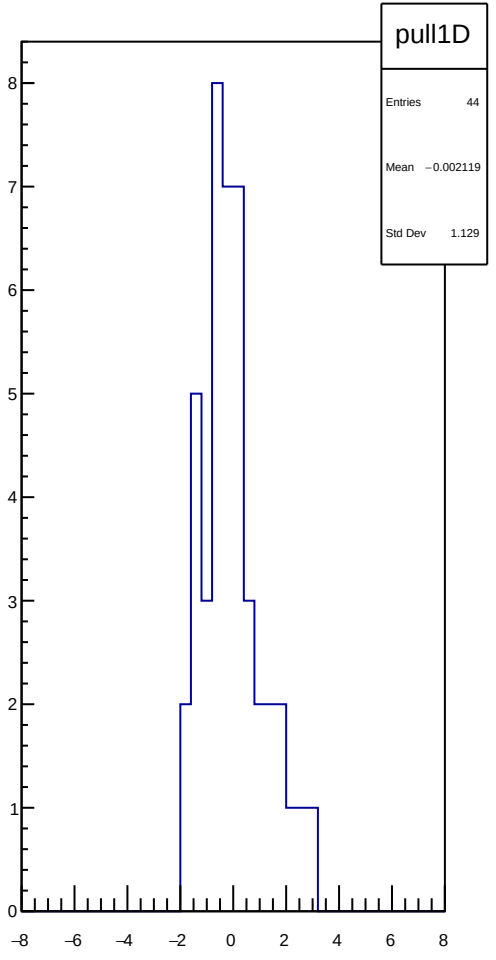

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 4.072e+04 / 43
p0 84.97 ± 0.09323
140
120
100
80
60
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

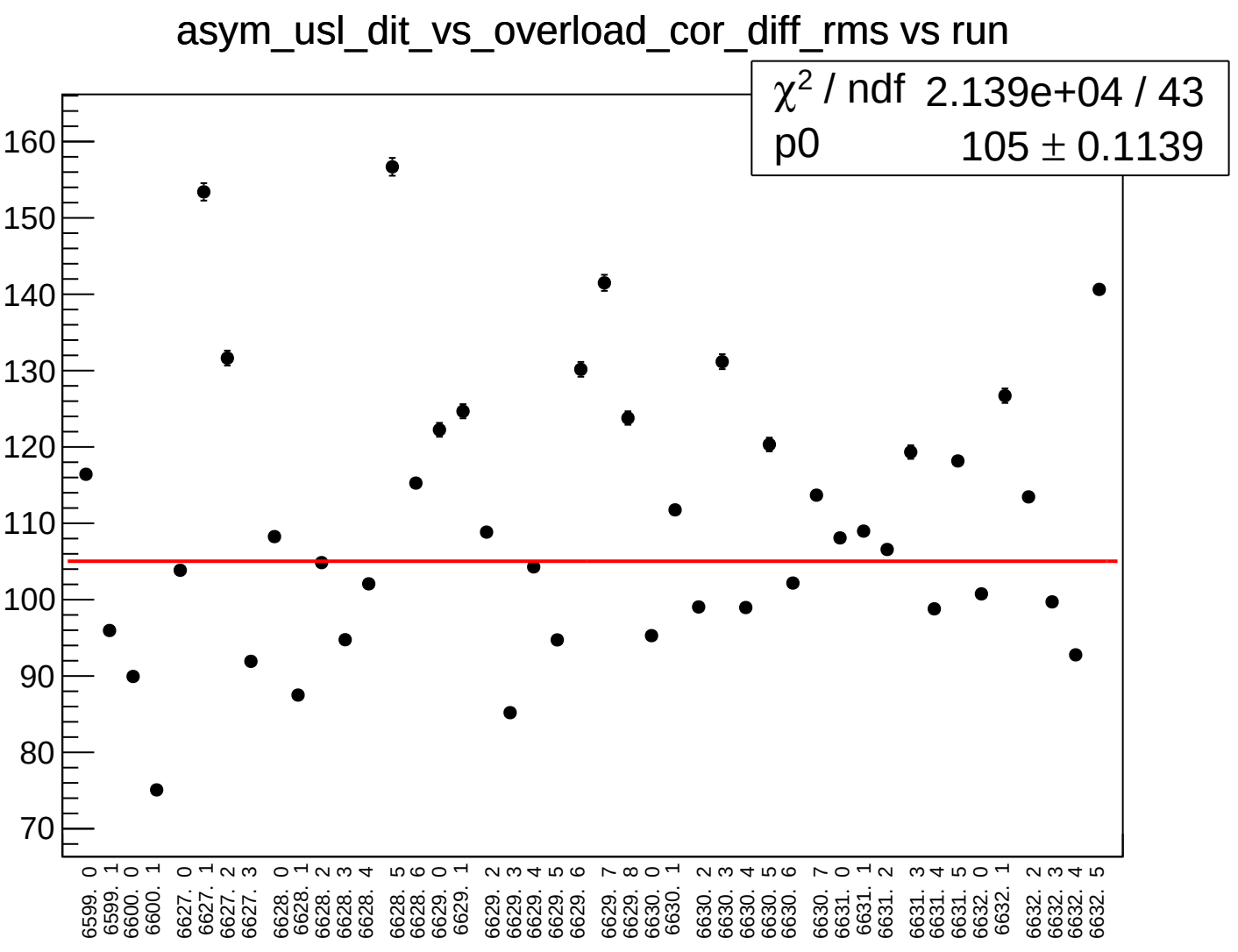

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 62.19 / 43
p0 0.2209 ± 0.1318
pull
Entries 44
Mean 311.2
Std Dev 0

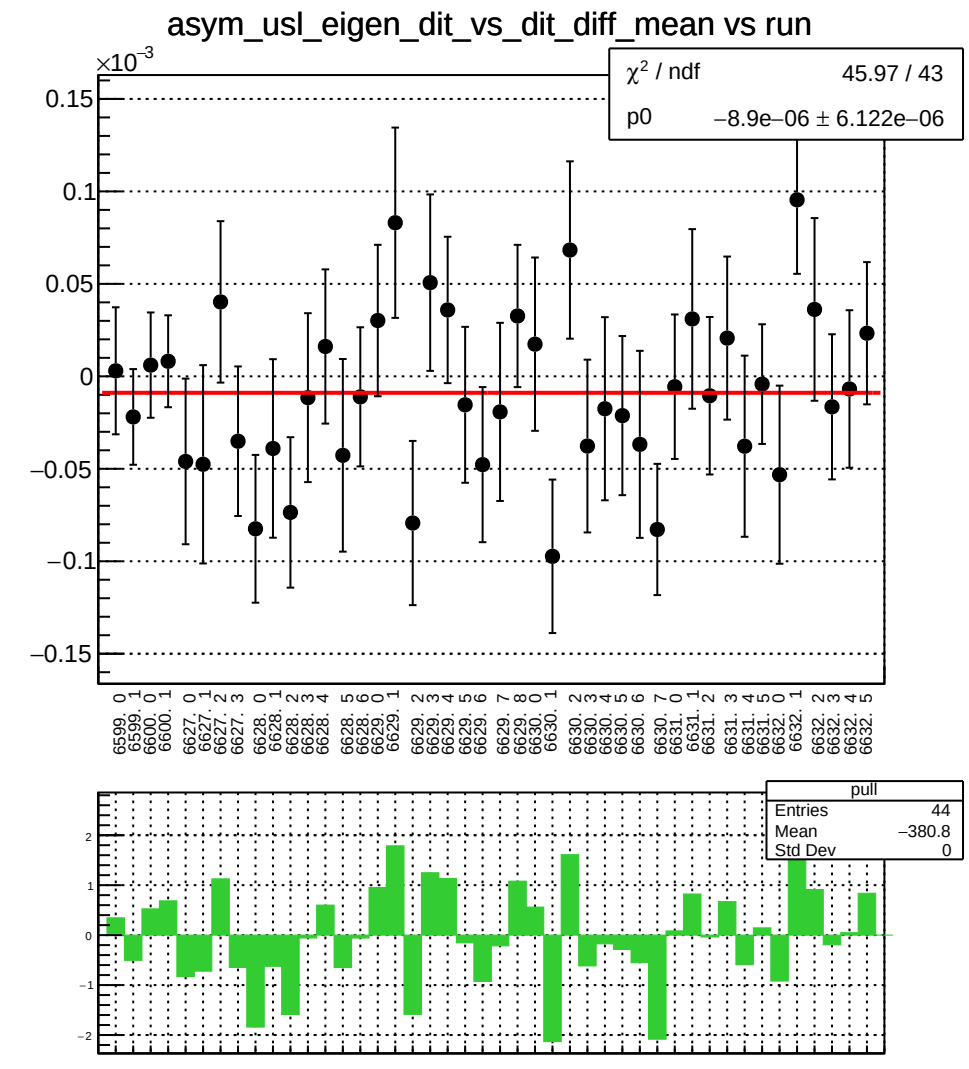

pull1D
Entries 44
Mean 0.002116
Std Dev 1.189

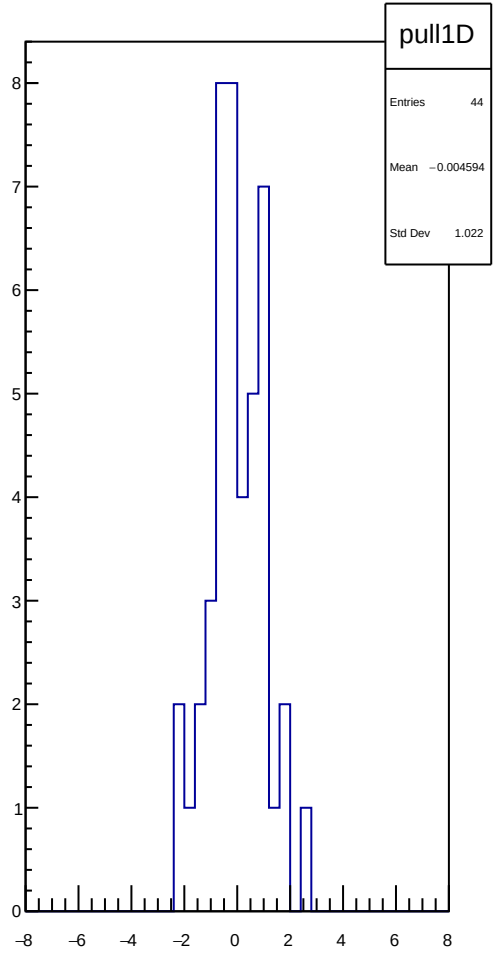

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.072e+04 / 43
p0 84.97 ± 0.09323
140
120
100
80
60
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

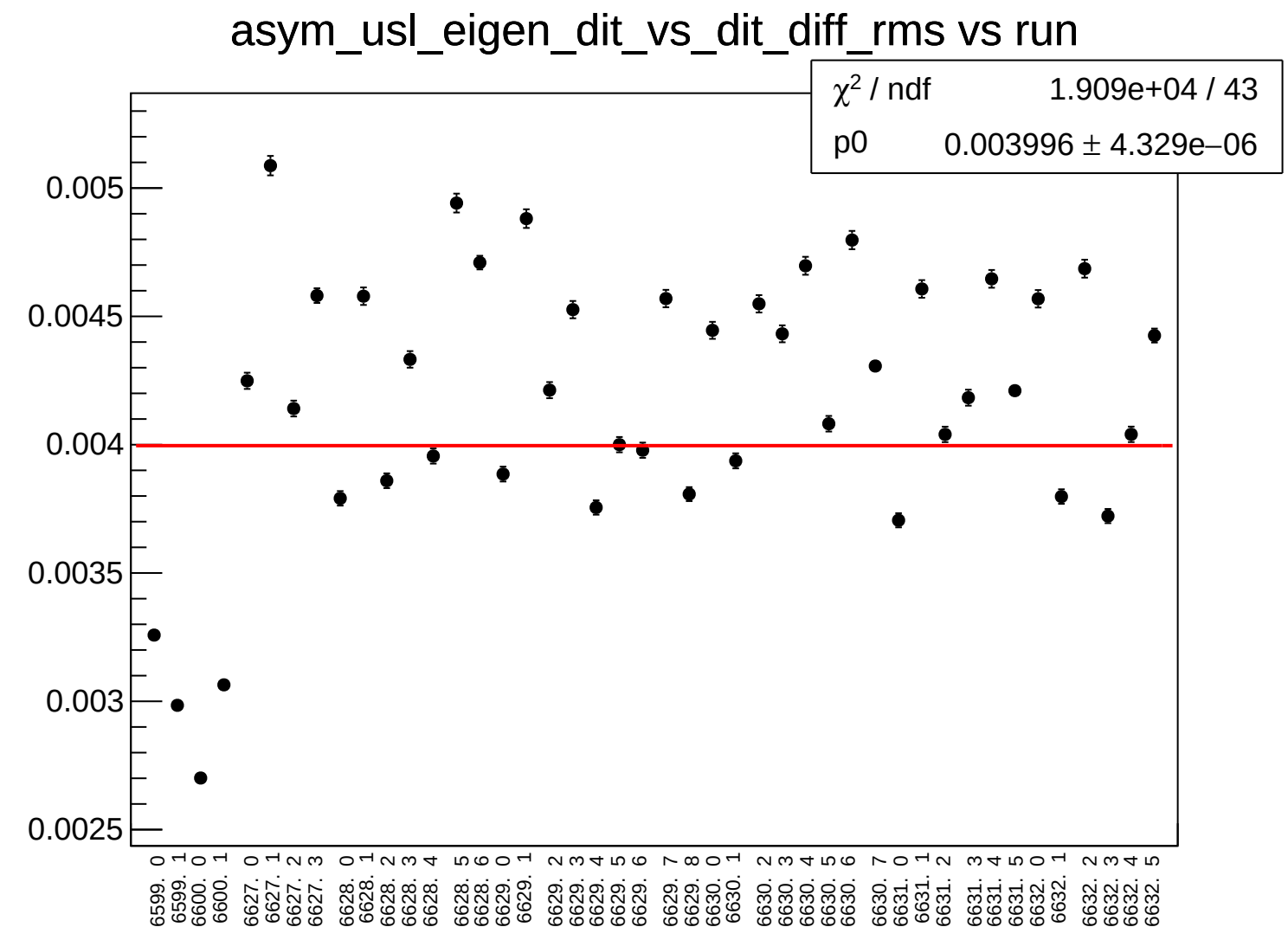

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 56.11 / 43
p0 0.3046 ± 0.1611
pull
Entries 44
Mean −363.4
Std Dev 0


pull1D
Entries 44
Mean −0.002119
Std Dev 1.129

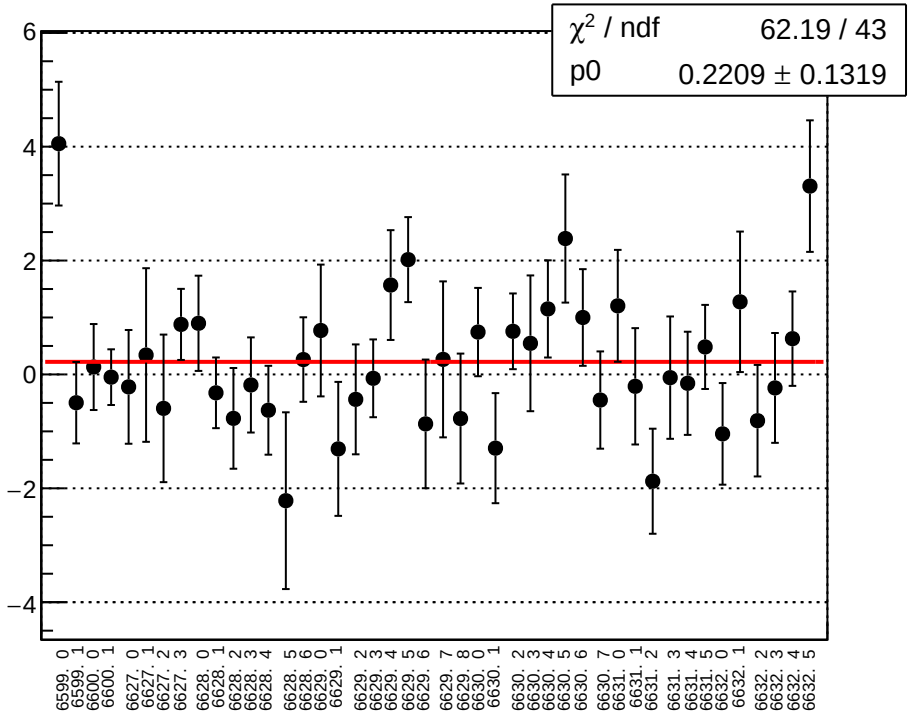

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.139e+04 / 43
p0 105 ± 0.1139
160
150
140
130
120
110
100
90
80
70
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

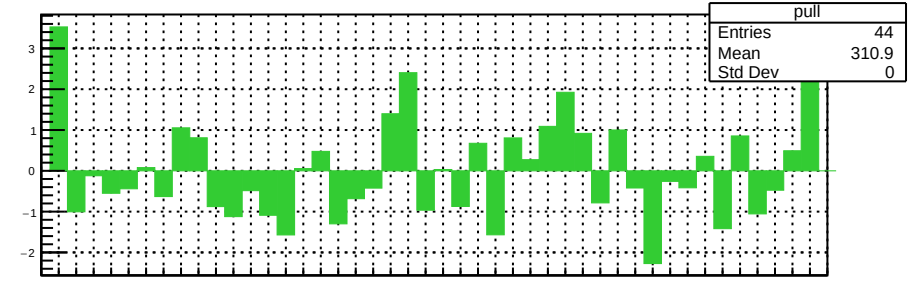

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 45.97 / 43
p0 −8.9e−06 ± 6.122e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 44
Mean −380.8
Std Dev 0
2
1
0
−1
−2

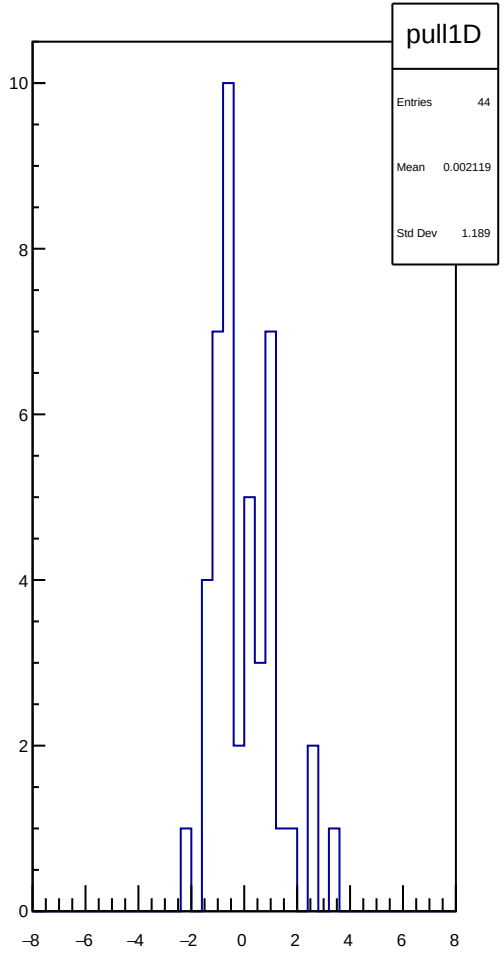

pull1D
Entries 44
Mean −0.004594
Std Dev 1.022
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

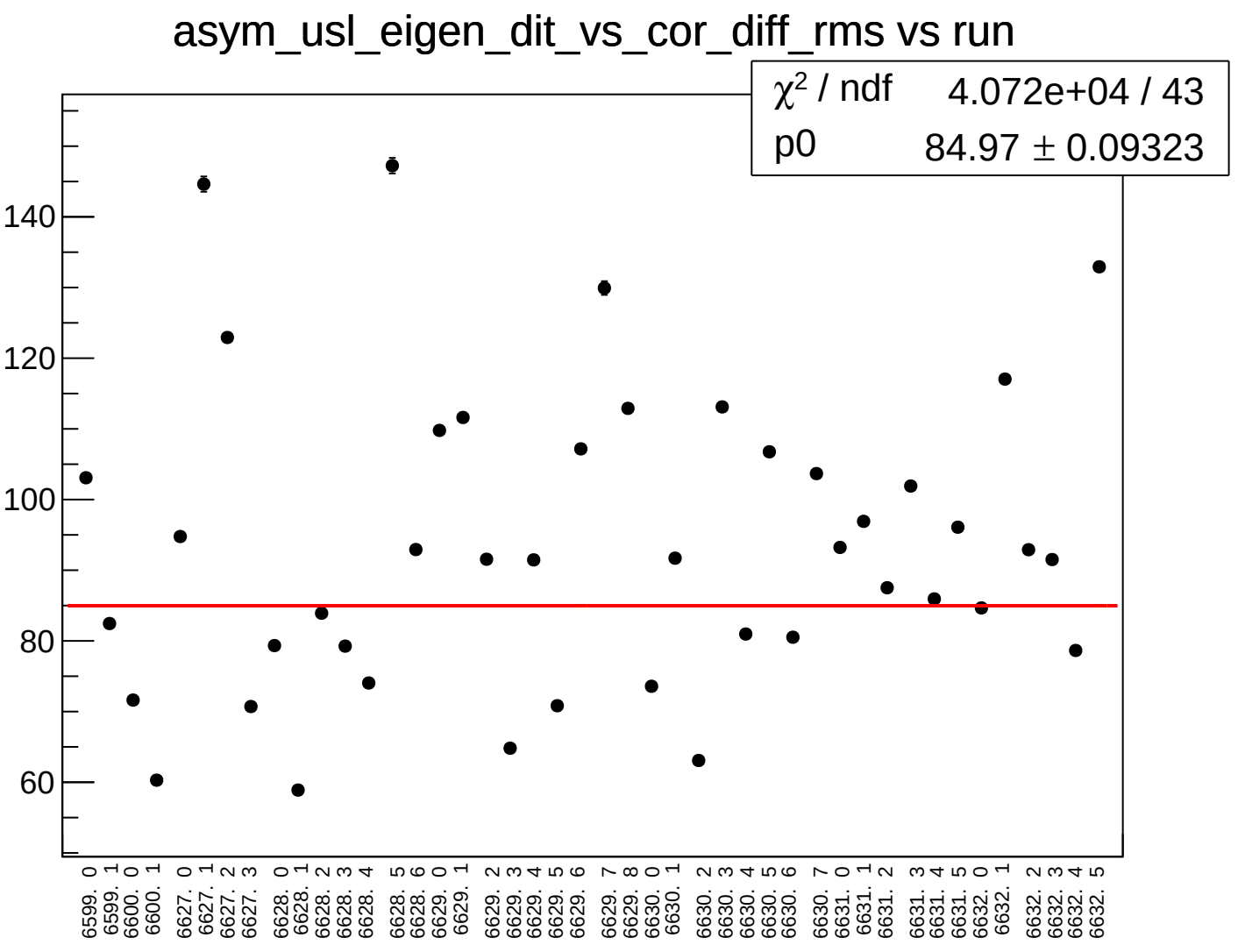

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.909e+04 / 43
p0 0.003996 ± 4.329e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

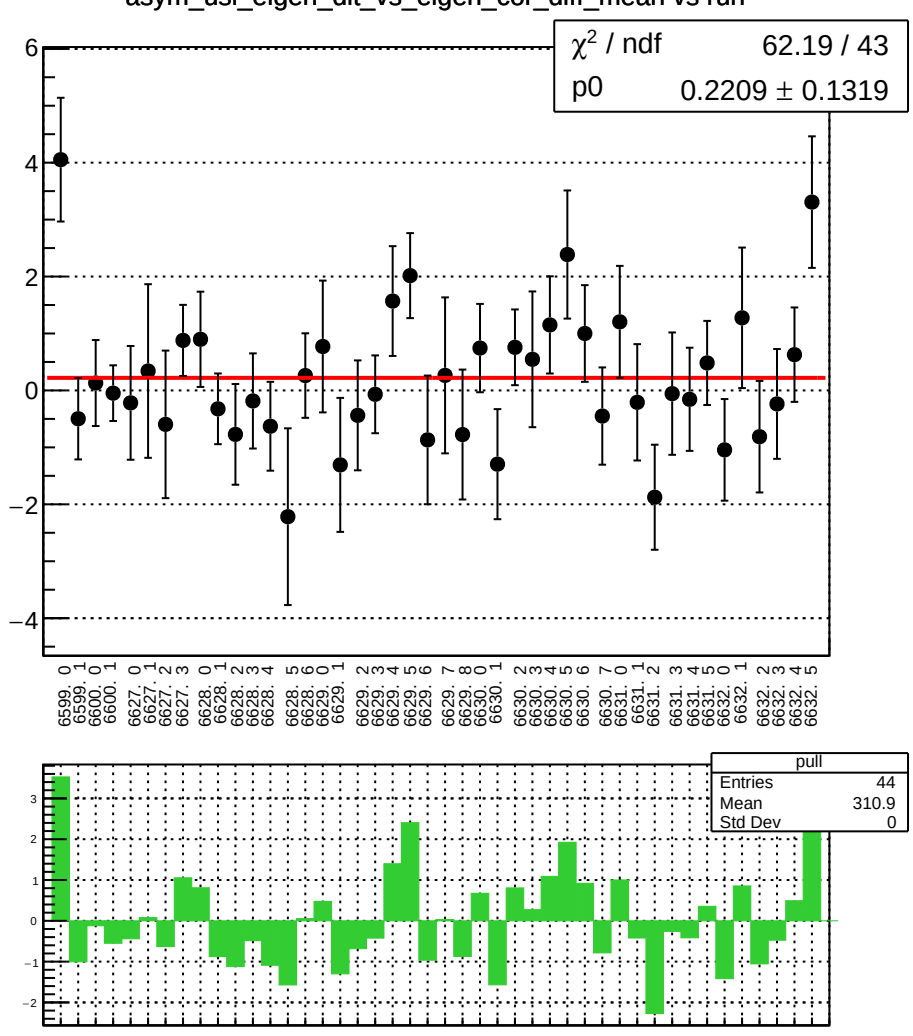
asym_usl_eigen_dit_vs_cor_diff_mean vs run

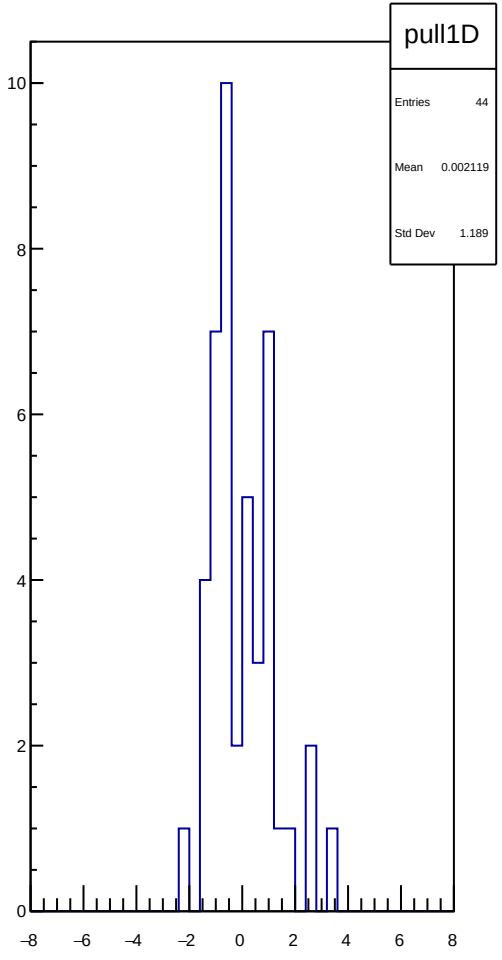


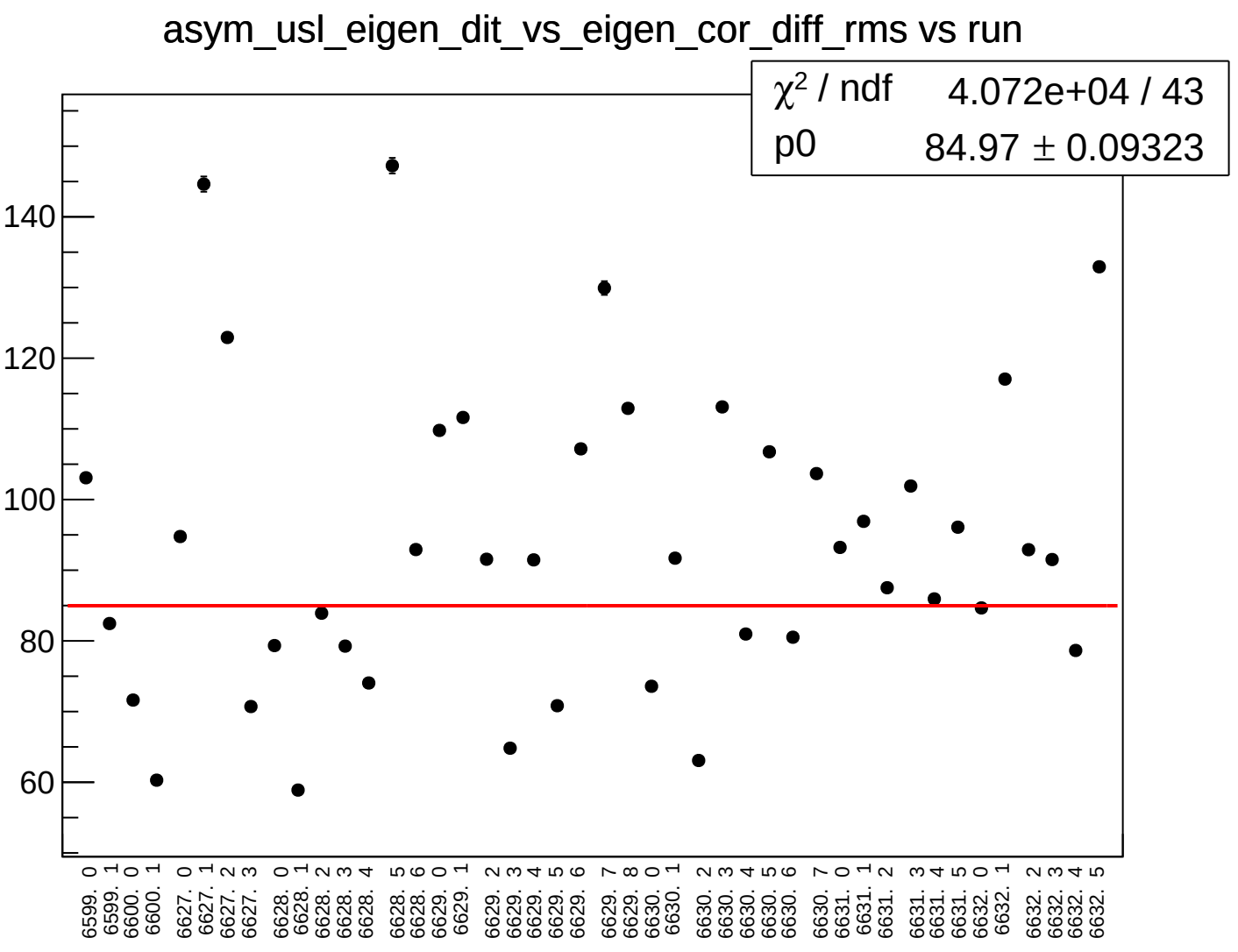



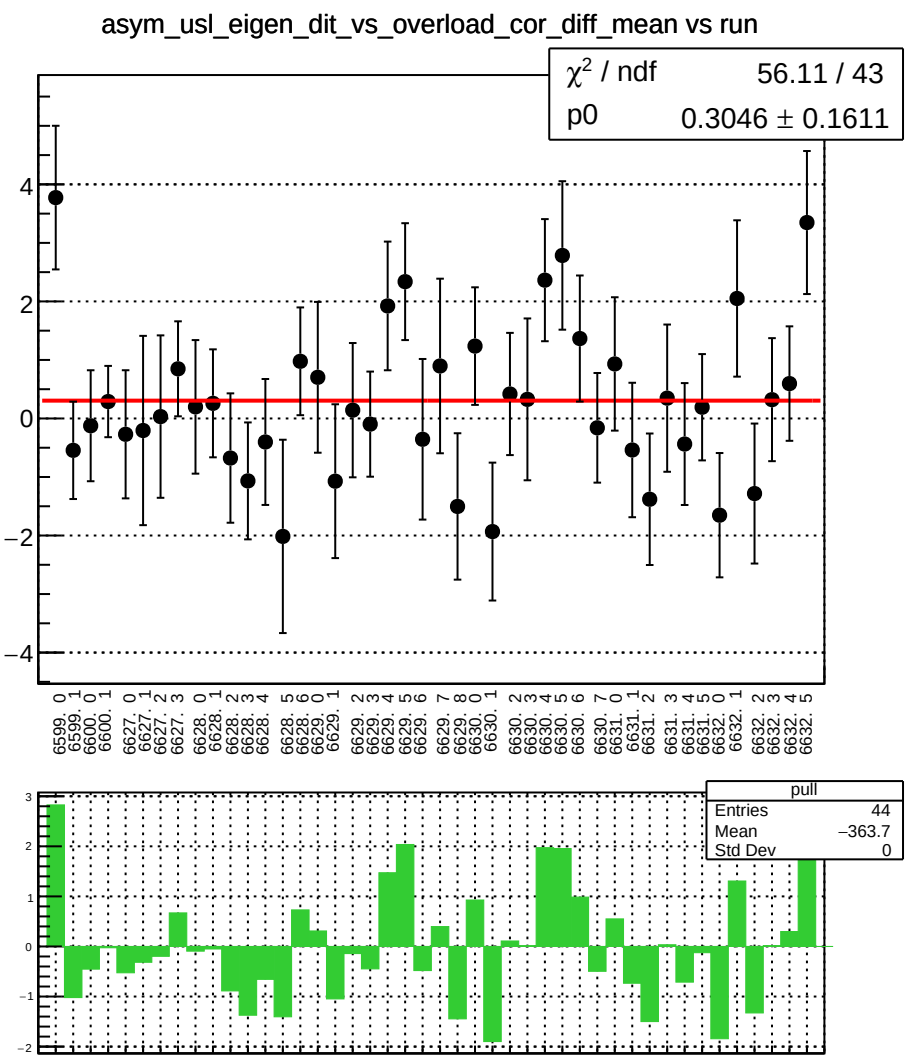



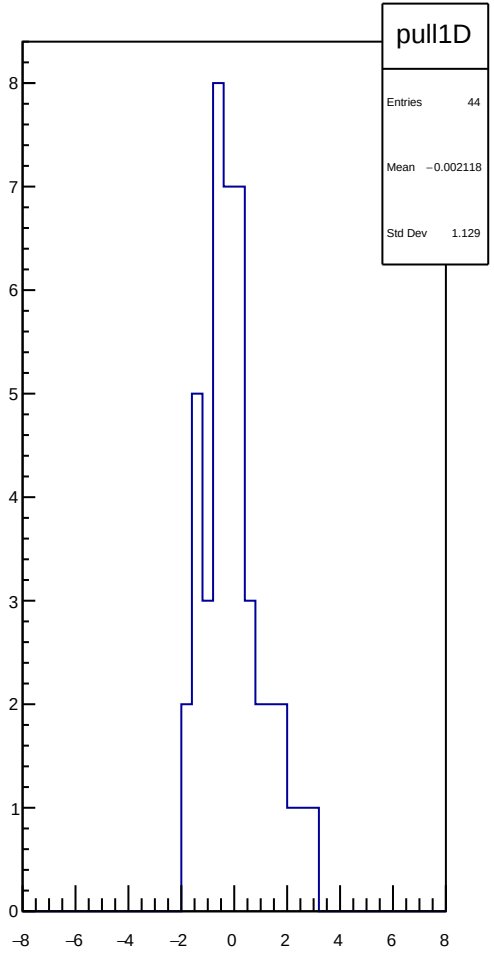

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.072e+04 / 43
p0 84.97 ± 0.09323
140
120
100
80
60
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

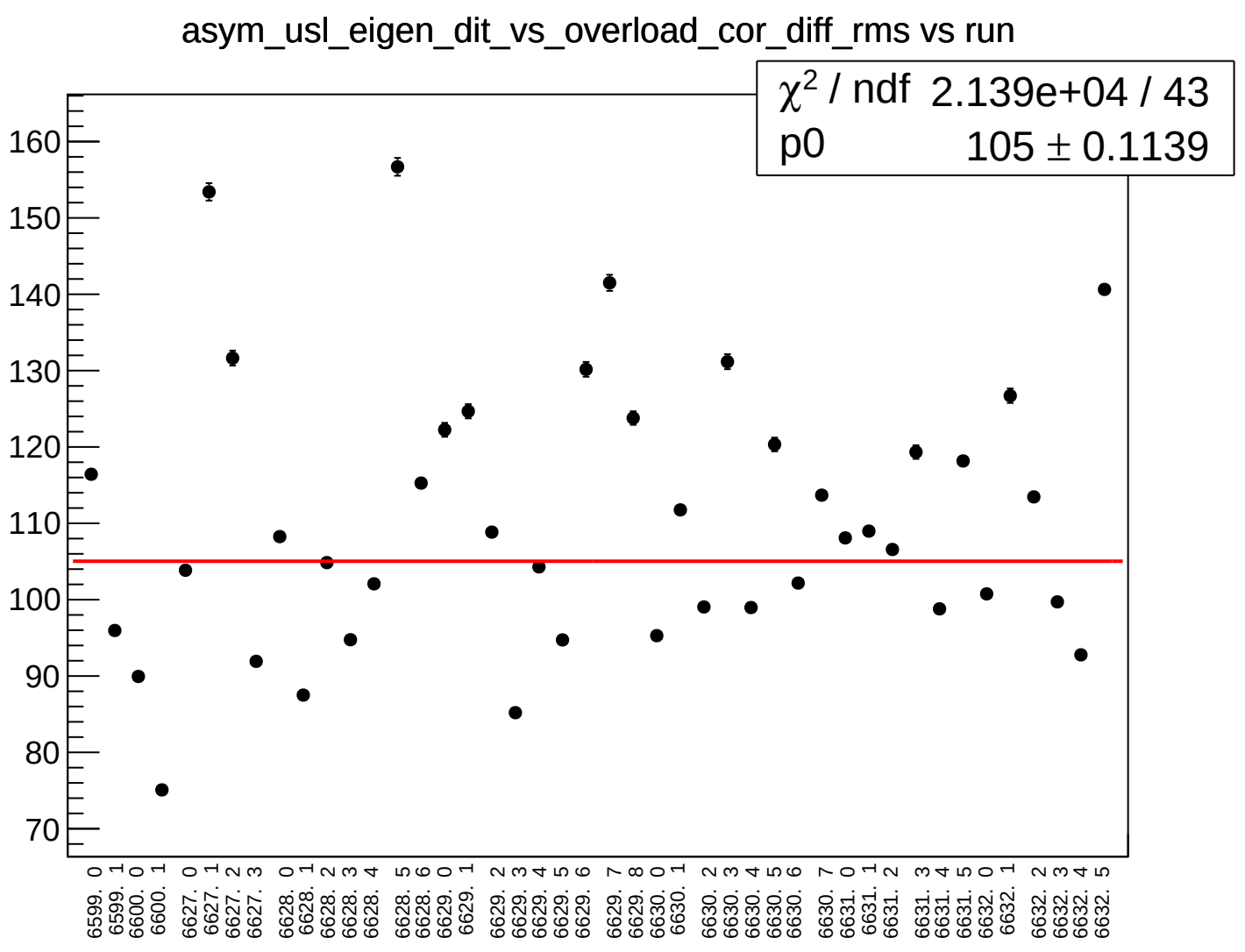

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 62.19 / 43
p0 0.2209 ± 0.1319
pull
Entries 44
Mean 310.9
Std Dev 0
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

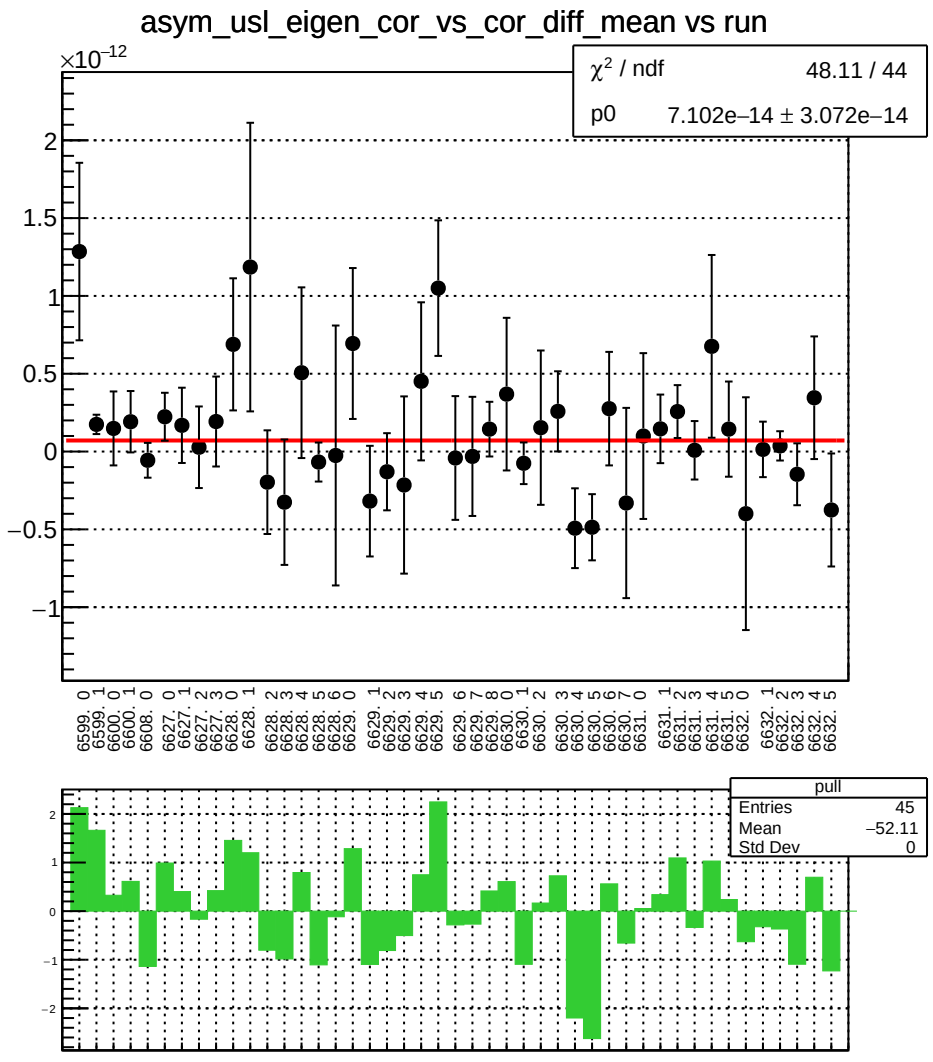

pull1D
Entries 44
Mean 0.002119
Std Dev 1.189

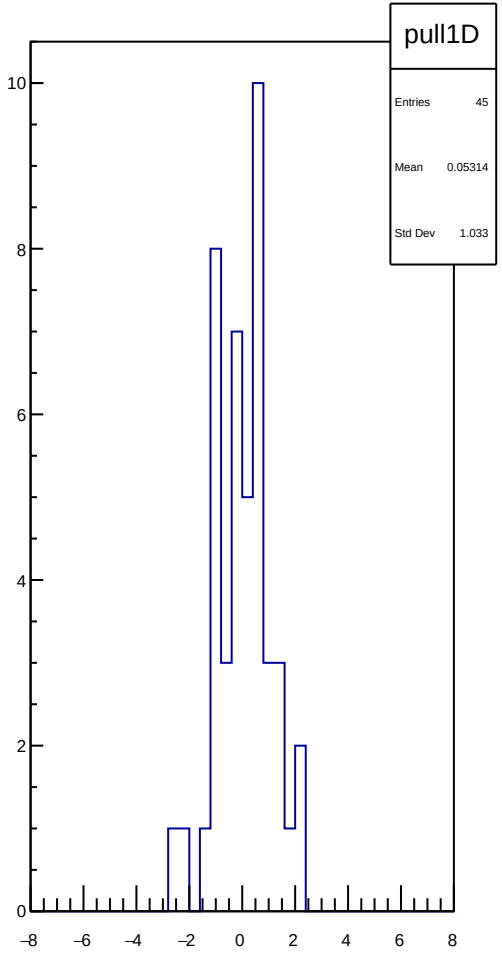

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.072e+04 / 43
p0 84.97 ± 0.09323
140
120
100
80
60
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

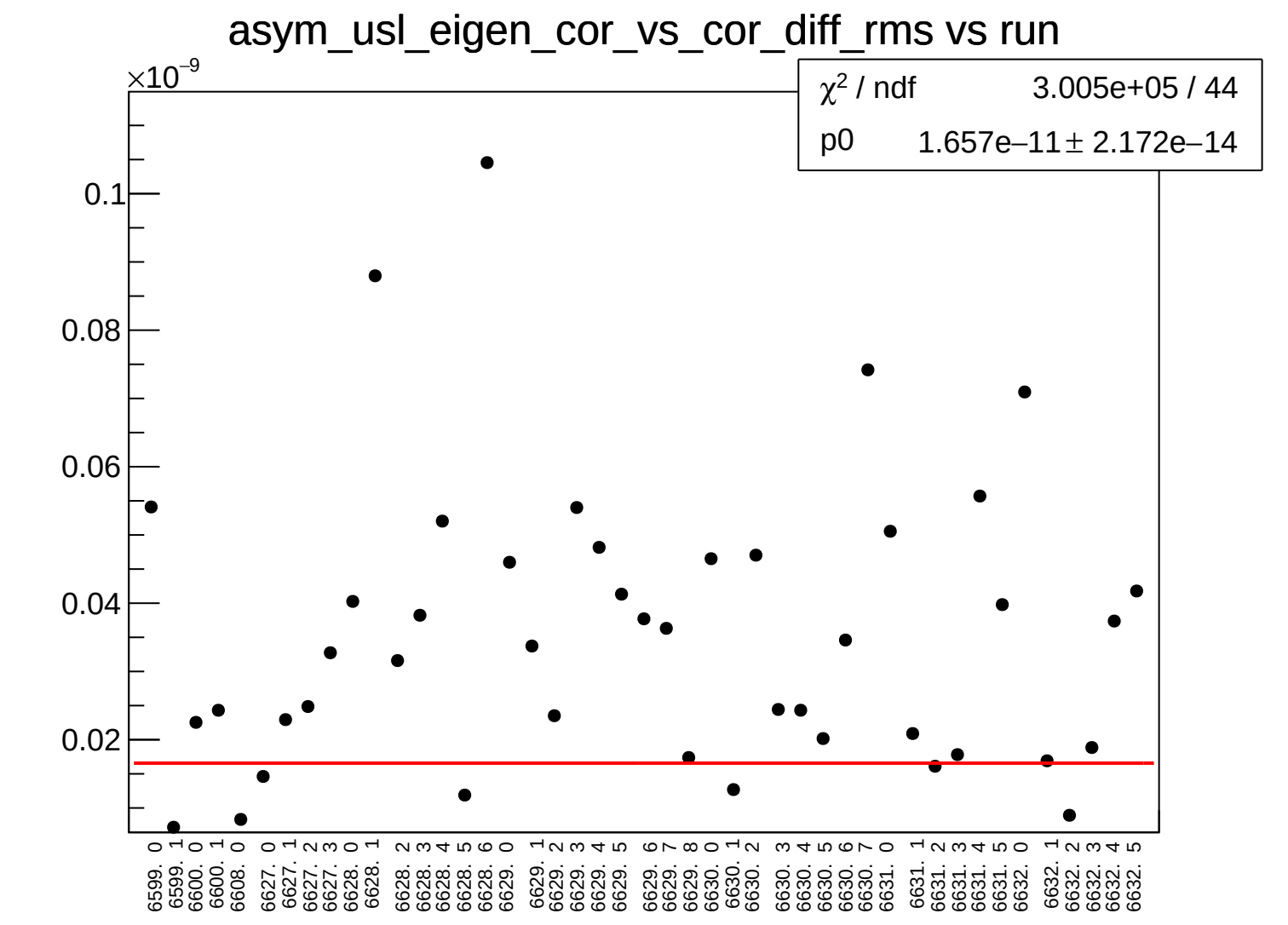

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 56.11 / 43
p0 0.3046 ± 0.1611
pull
Entries 44
Mean −363.7
Std Dev 0

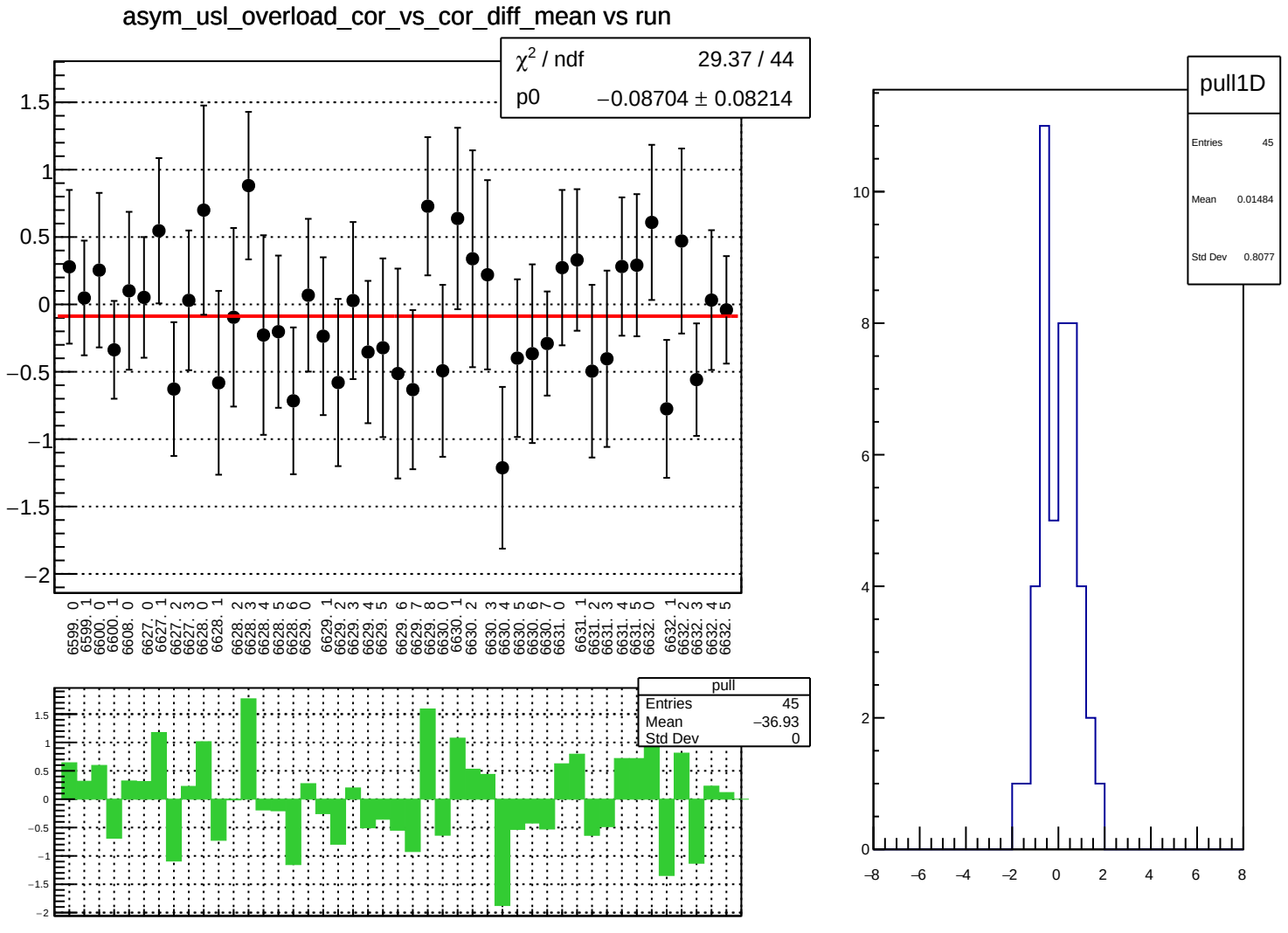

pull1D
Entries 44
Mean −0.002118
Std Dev 1.129

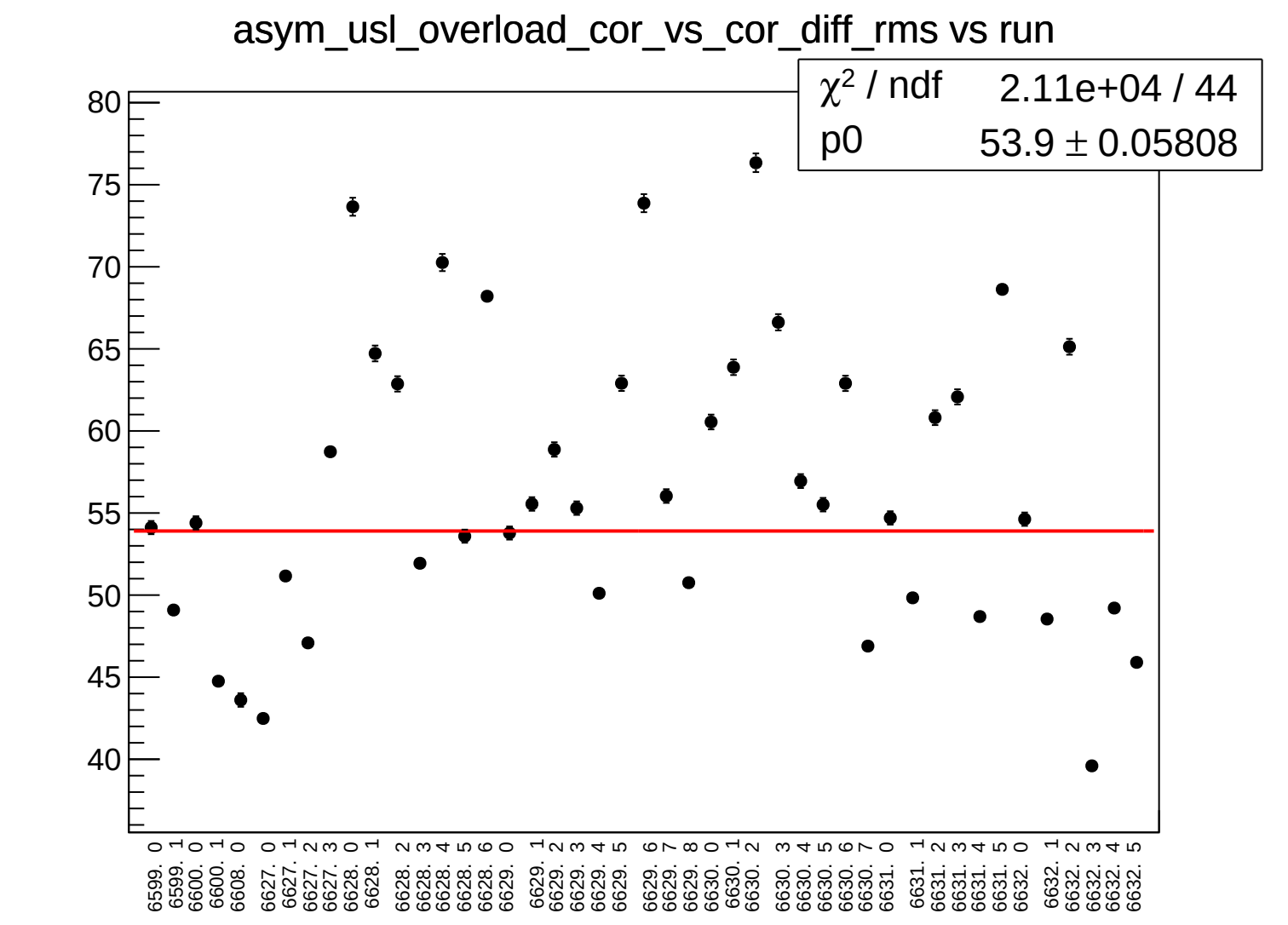

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.139e+04 / 43
p0 105 ± 0.1139
160
150
140
130
120
110
100
90
80
70
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 48.11 / 44
p0 7.102e−14 ± 3.072e−14
pull
Entries 45
Mean −52.11
Std Dev 0


pull1D
Entries 45
Mean 0.05314
Std Dev 1.033


asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.005e+05 / 44
p0 1.657e−11 ± 2.172e−14
0.1
0.08
0.06
0.04
0.02
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 29.37 / 44
p0 −0.08704 ± 0.08214
pull
Entries 45
Mean −36.93
Std Dev 0
pull1D
Entries 45
Mean 0.01484
Std Dev 0.8077


asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 2.11e+04 / 44
p0 53.9 ± 0.05808
80
75
70
65
60
55
50
45
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6632. 0
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6632. 2
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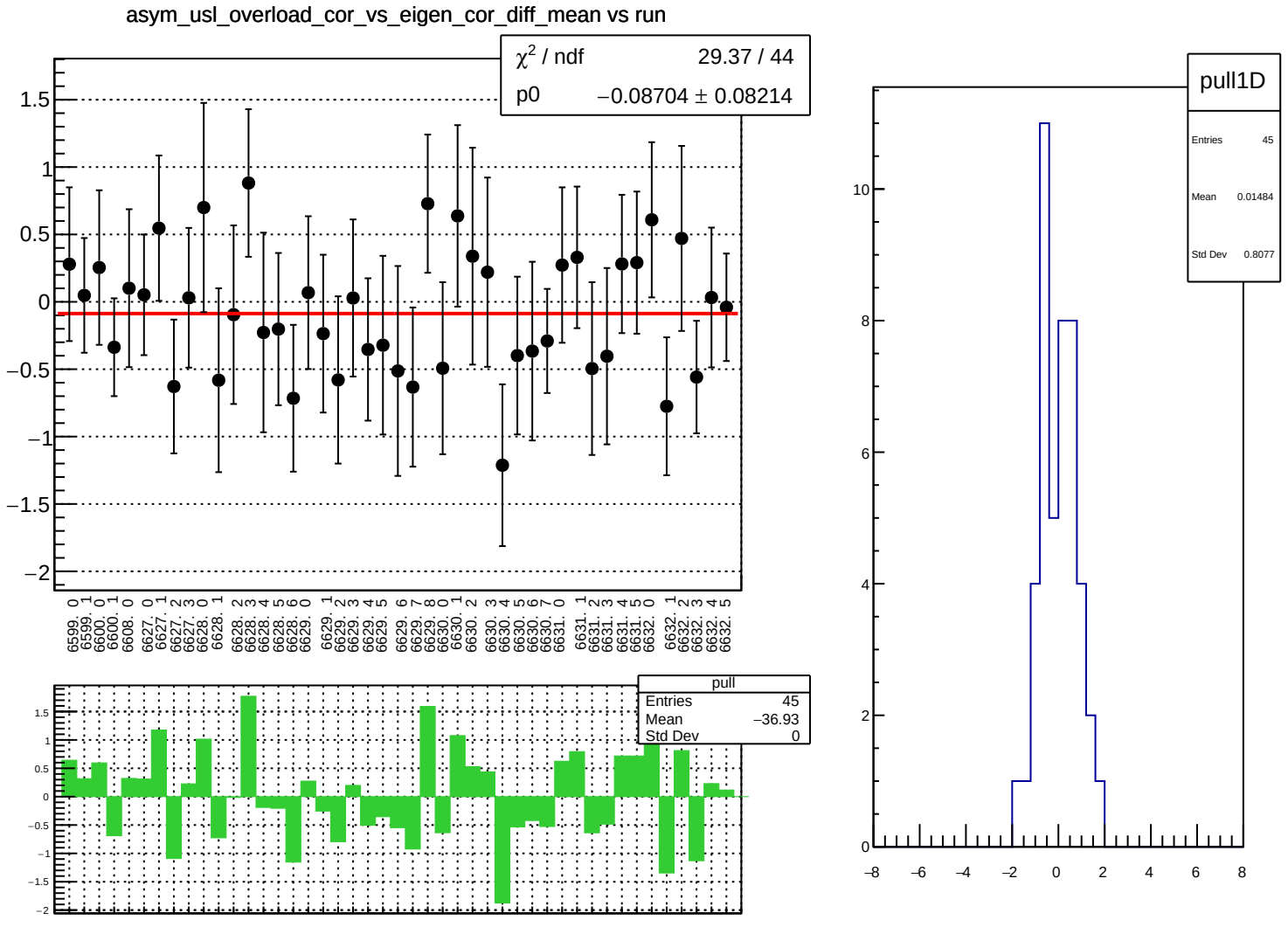
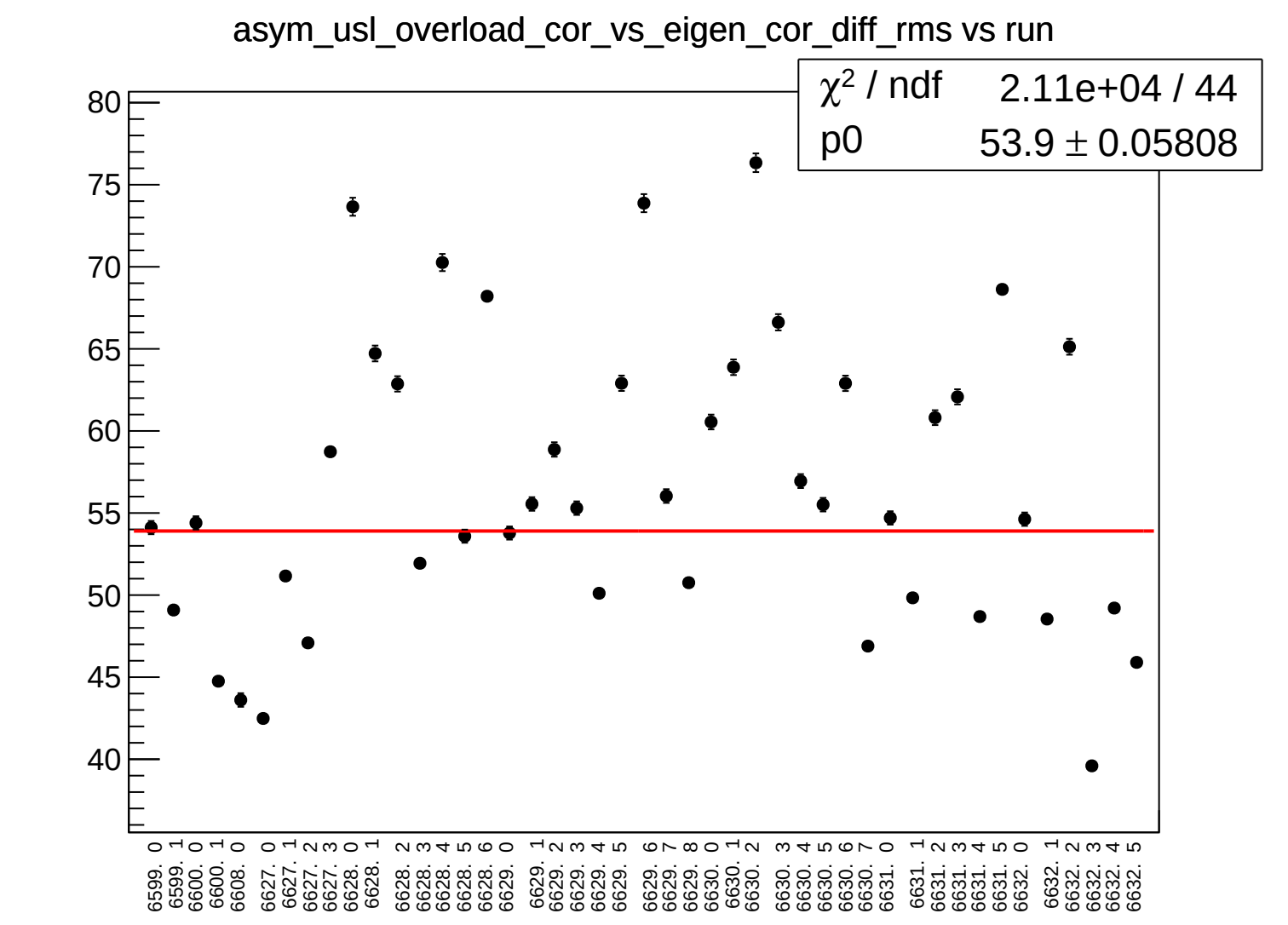
6632. 4
6632. 5


asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.37 / 44
p0 −0.08704 ± 0.08214
pull
Entries 45
Mean −36.93
Std Dev 0
pull1D
Entries 45
Mean 0.01484
Std Dev 0.8077


asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.11e+04 / 44
p0 53.9 ± 0.05808
80
75
70
65
60
55
50
45
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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6629. 0
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6629. 4
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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6632. 2
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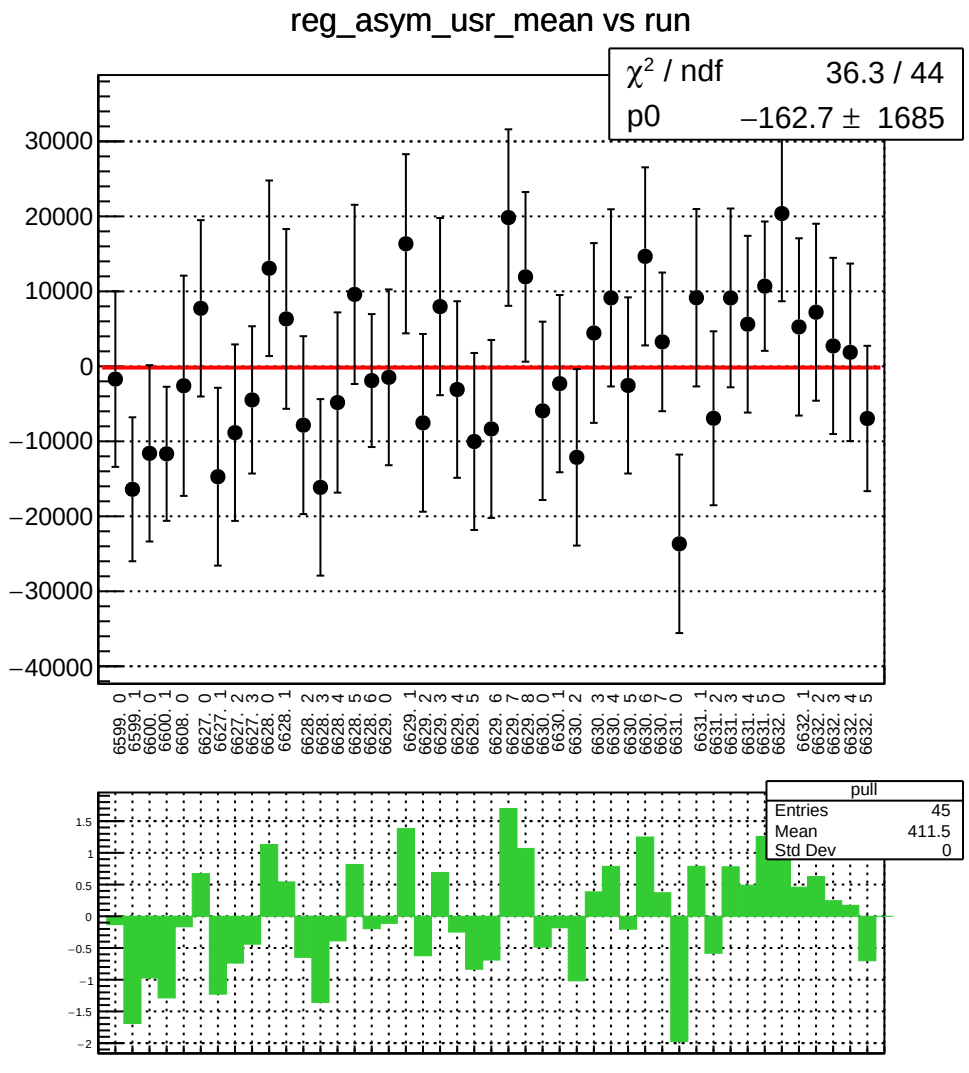
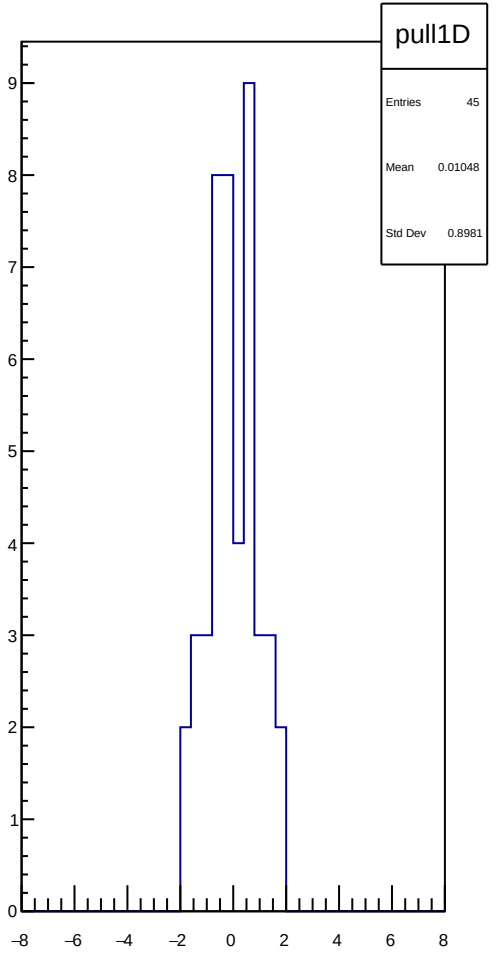
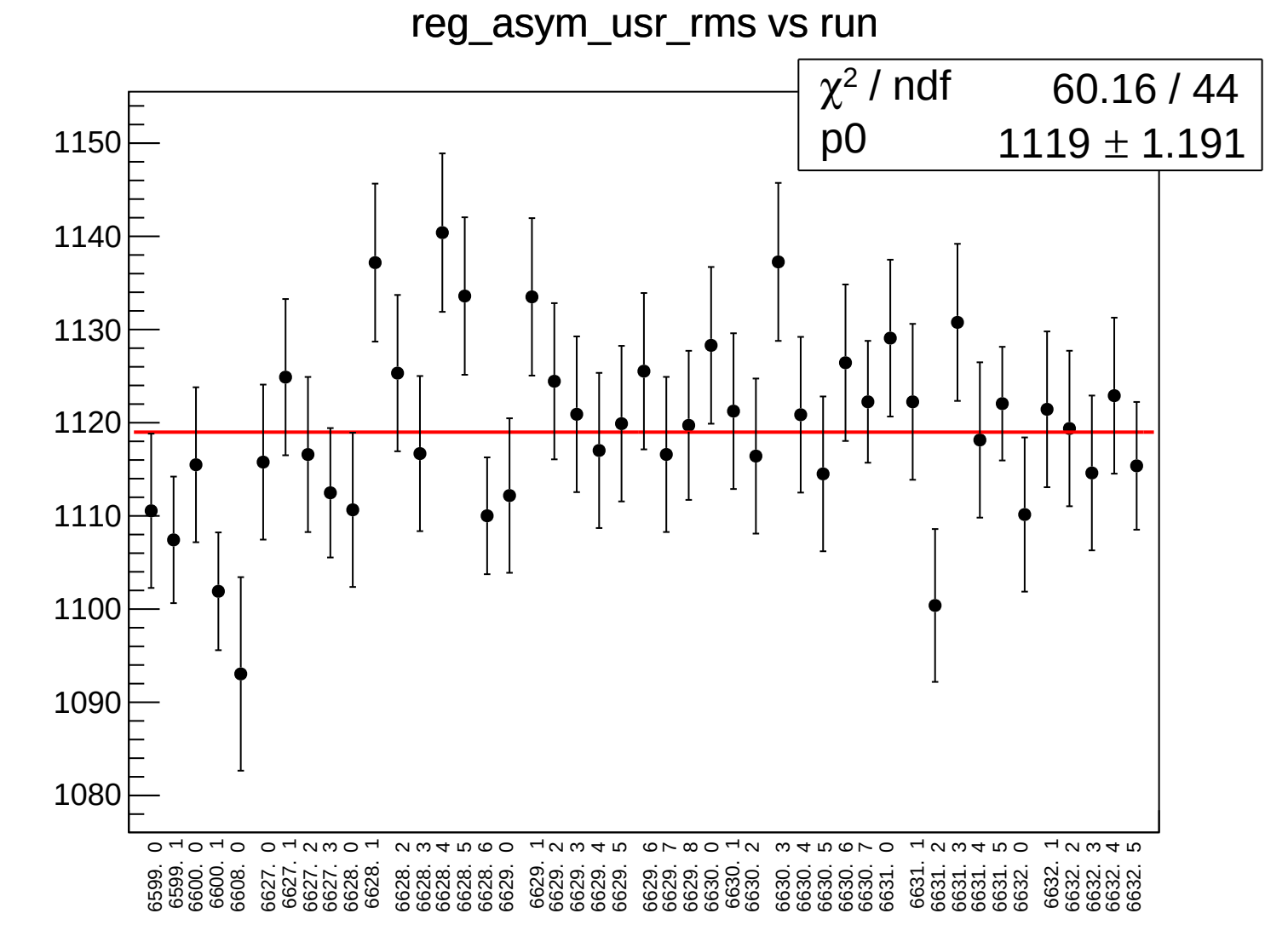
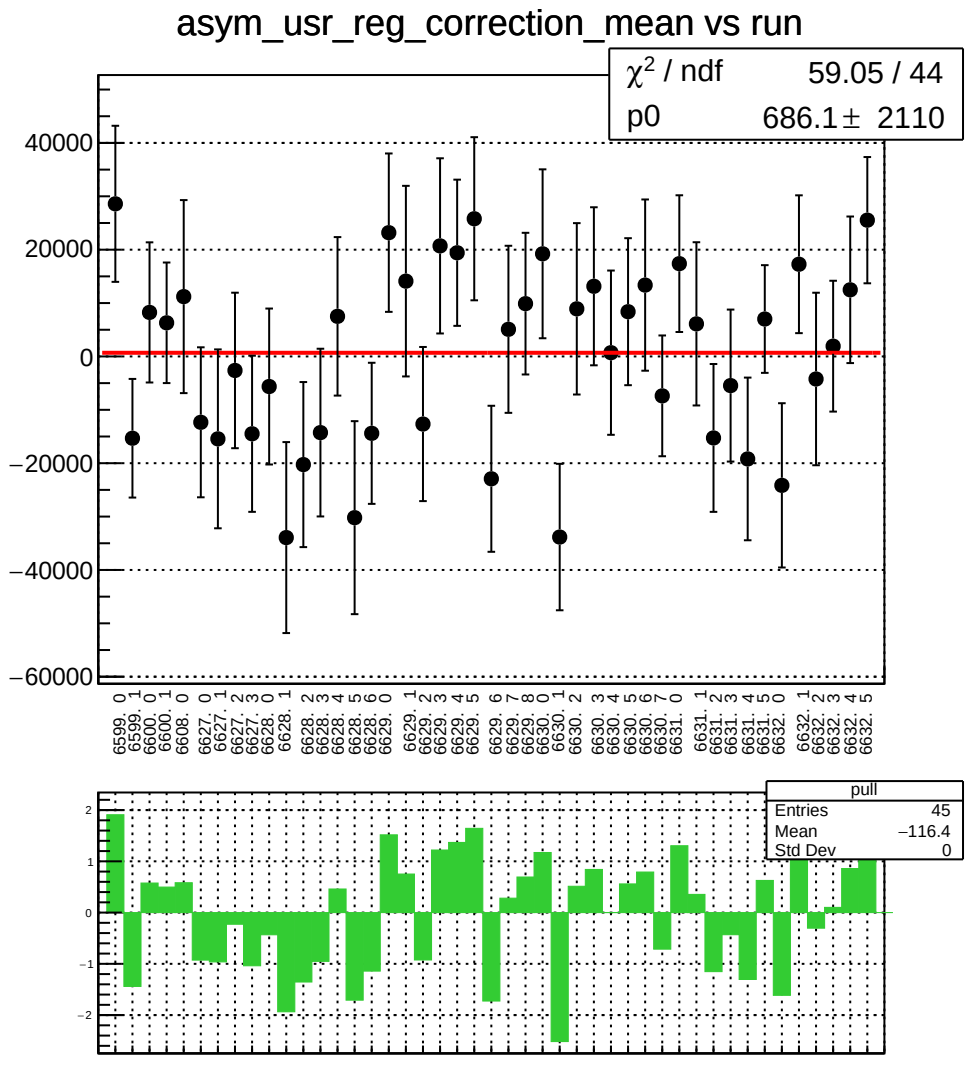
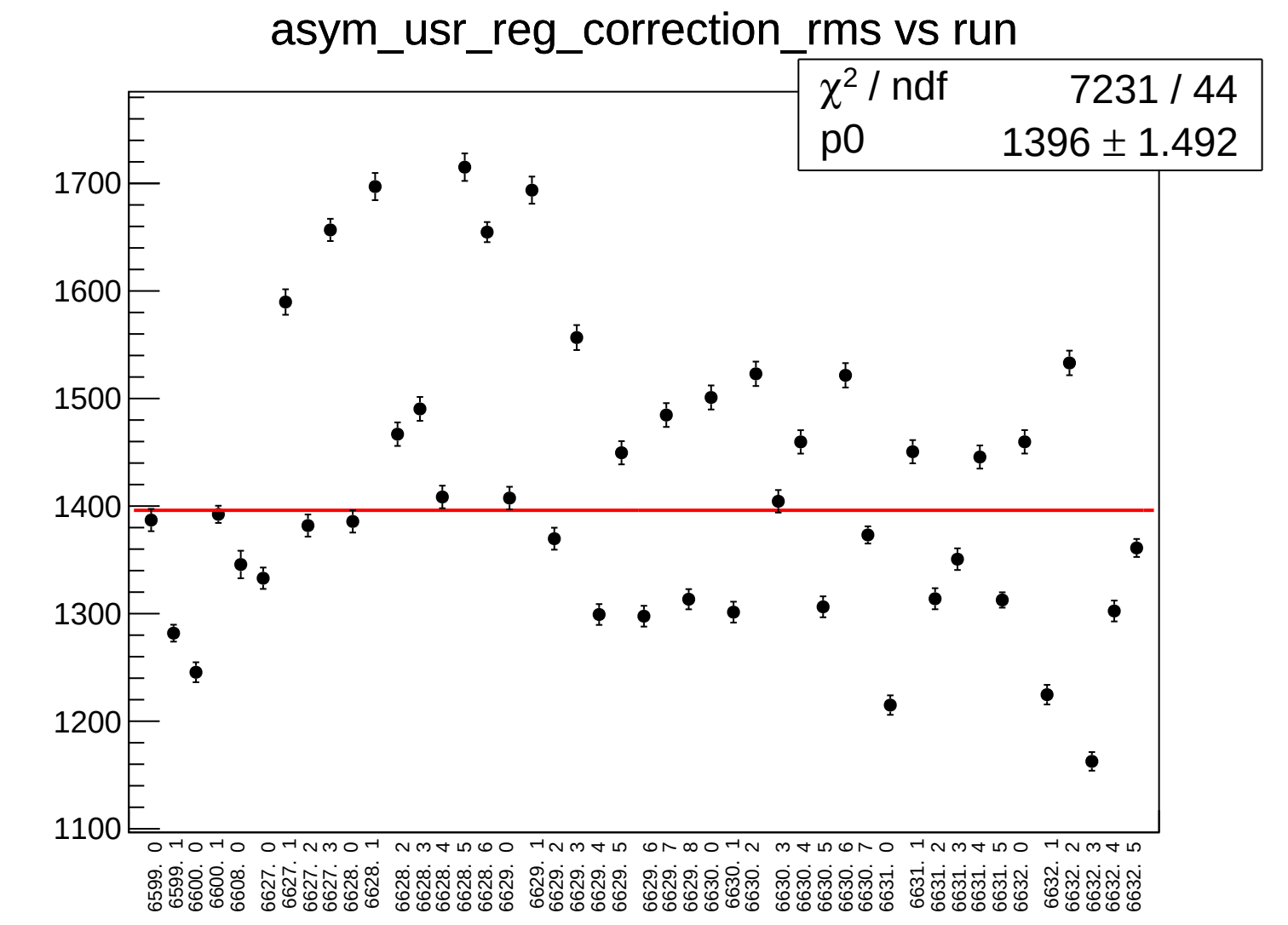
6632. 4
6632. 5


reg_asym_usr_mean vs run
χ² / ndf 36.3 / 44
p0 −162.7 ± 1685
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 411.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.01048
Std Dev 0.8981
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usr_rms vs run
χ² / ndf 60.16 / 44
p0 1119 ± 1.191
1150
1140
1130
1120
1110
1100
1090
1080
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_usr_reg_correction_mean vs run
χ² / ndf 59.05 / 44
p0 686.1 ± 2110
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −116.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01774
Std Dev 1.145
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_reg_correction_rms vs run
χ² / ndf 7231 / 44
p0 1396 ± 1.492
1700
1600
1500
1400
1300
1200
1100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
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6629. 3
6629. 4
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6629. 6
6629. 7
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6630. 0
6630. 1
6630. 2
6630. 3
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6632. 2
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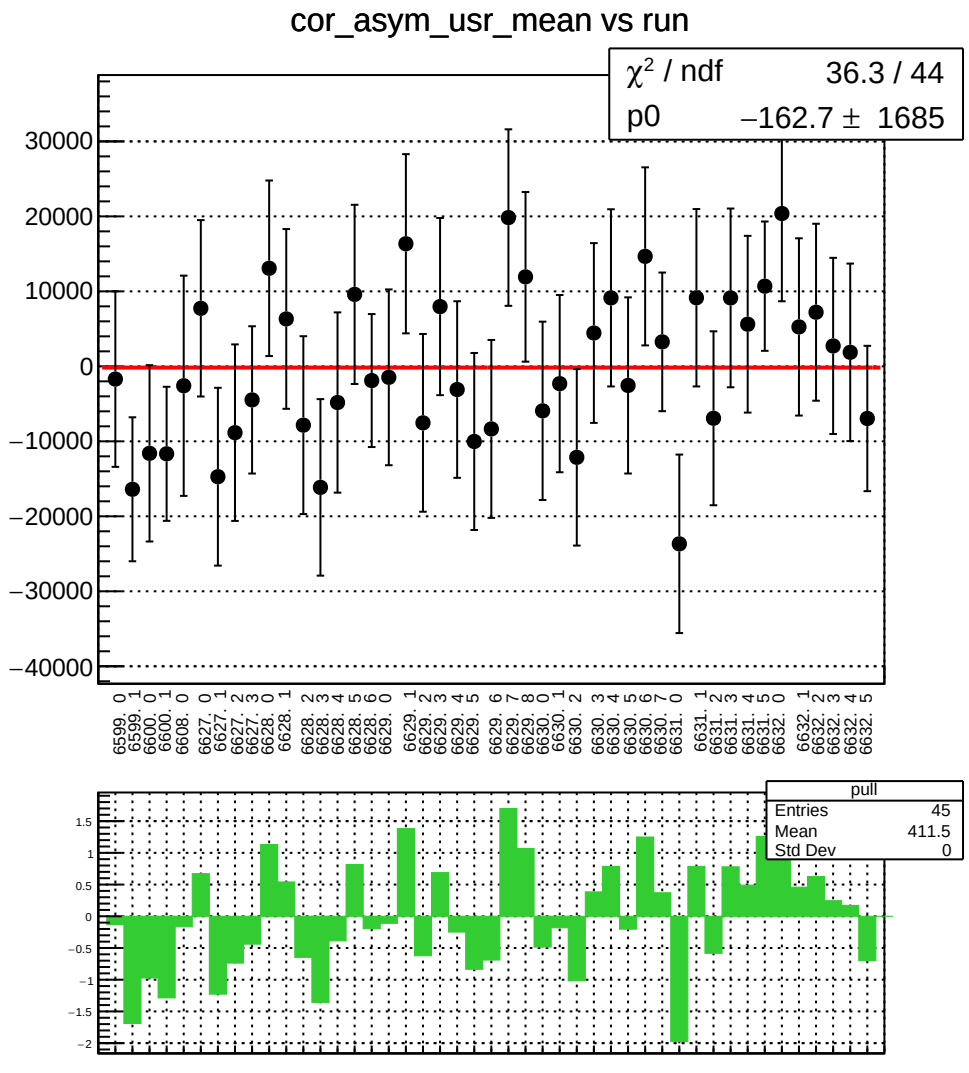
6632. 4
6632. 5


cor_asym_usr_mean vs run
χ² / ndf 36.3 / 44
p0 −162.7 ± 1685
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
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6629. 6
6629. 7
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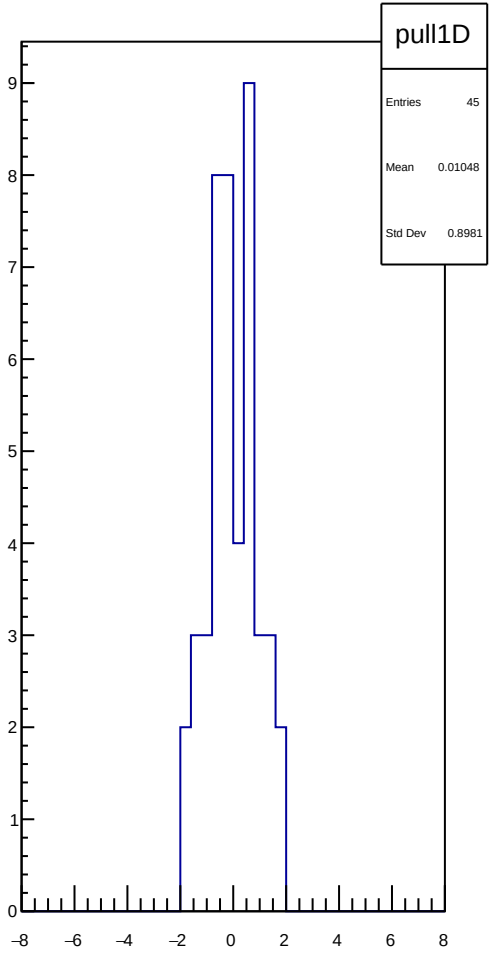
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 411.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.01048
Std Dev 0.8981
9
8
7
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5
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3
2
1
0
−8
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−4
−2
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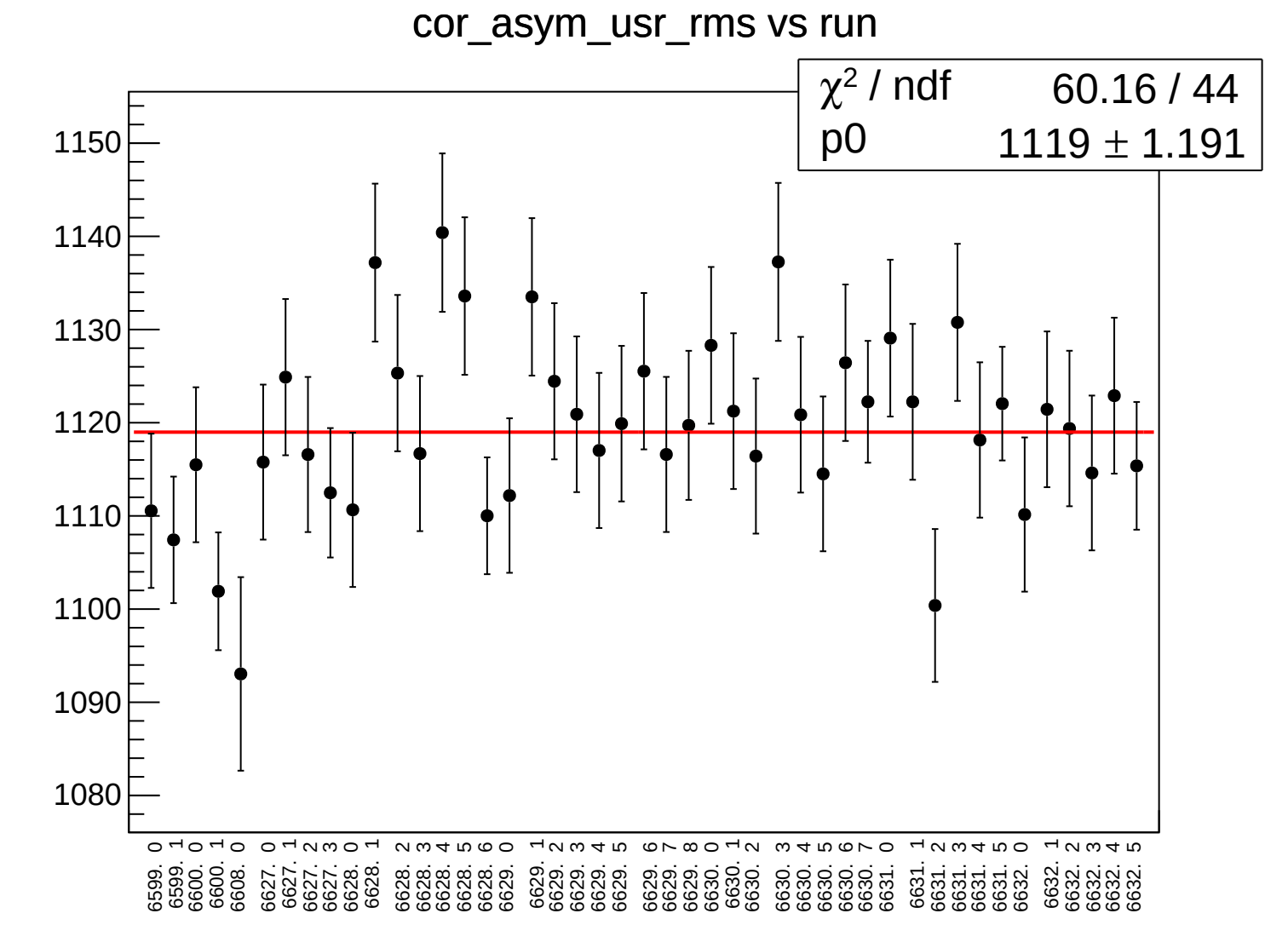
2
4
6
8


cor_asym_usr_rms vs run
χ² / ndf 60.16 / 44
p0 1119 ± 1.191
1150
1140
1130
1120
1110
1100
1090
1080
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 5
6628. 6
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
6632. 0
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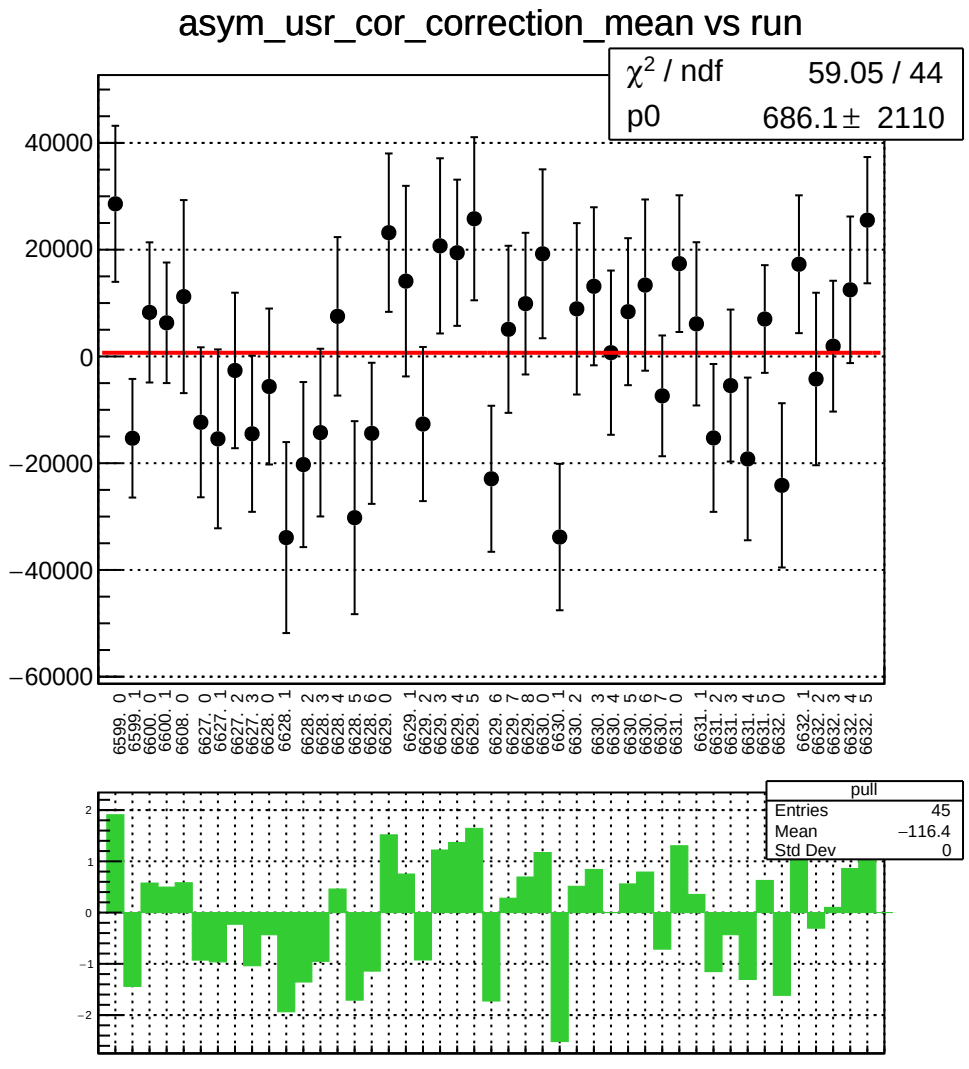
6632. 2
6632. 3
6632. 4
6632. 5


asym_usr_cor_correction_mean vs run
χ² / ndf 59.05 / 44
p0 686.1 ± 2110
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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6630. 7
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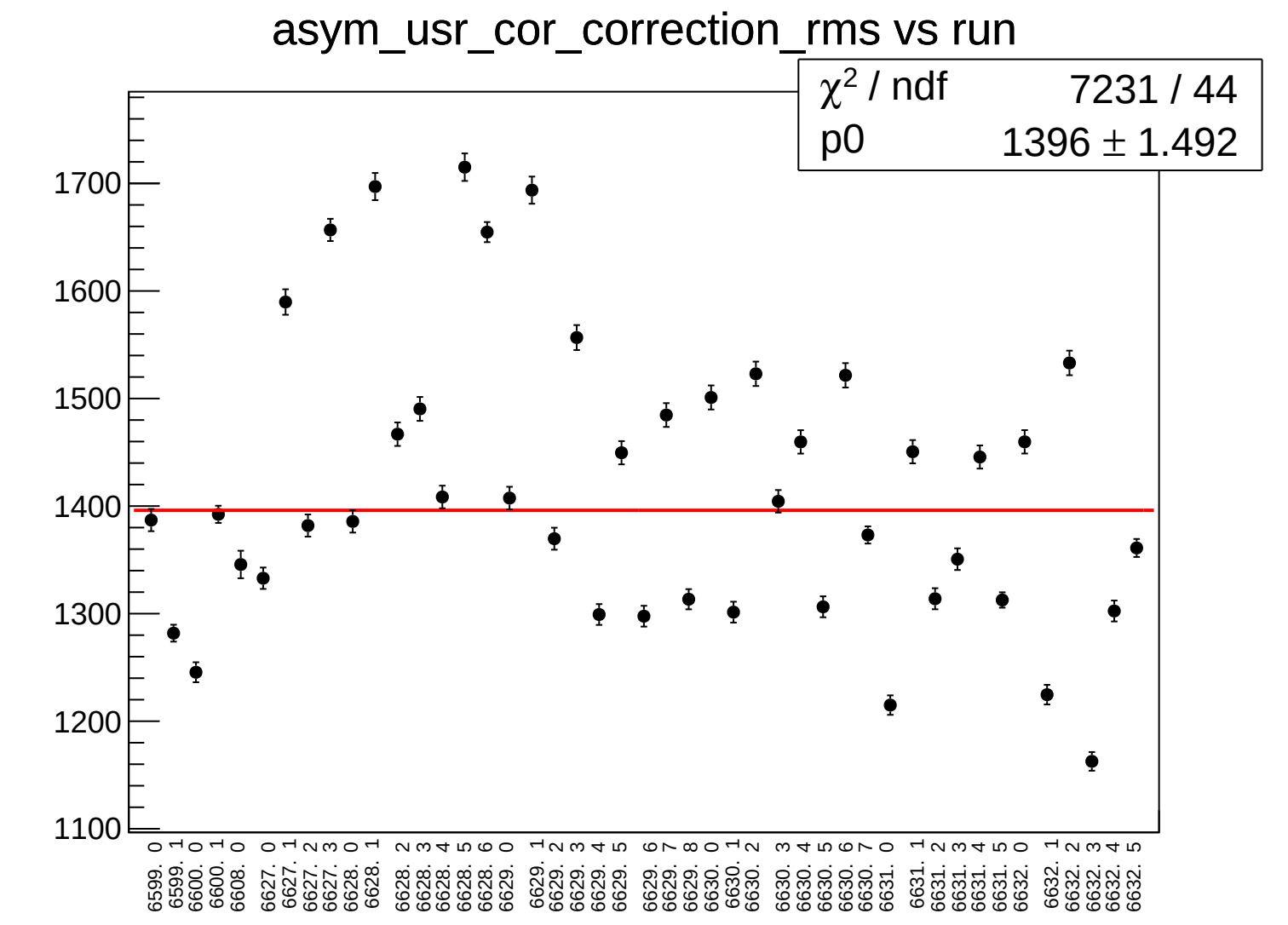
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −116.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01774
Std Dev 1.145
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_cor_correction_rms vs run
χ² / ndf 7231 / 44
p0 1396 ± 1.492
1700
1600
1500
1400
1300
1200
1100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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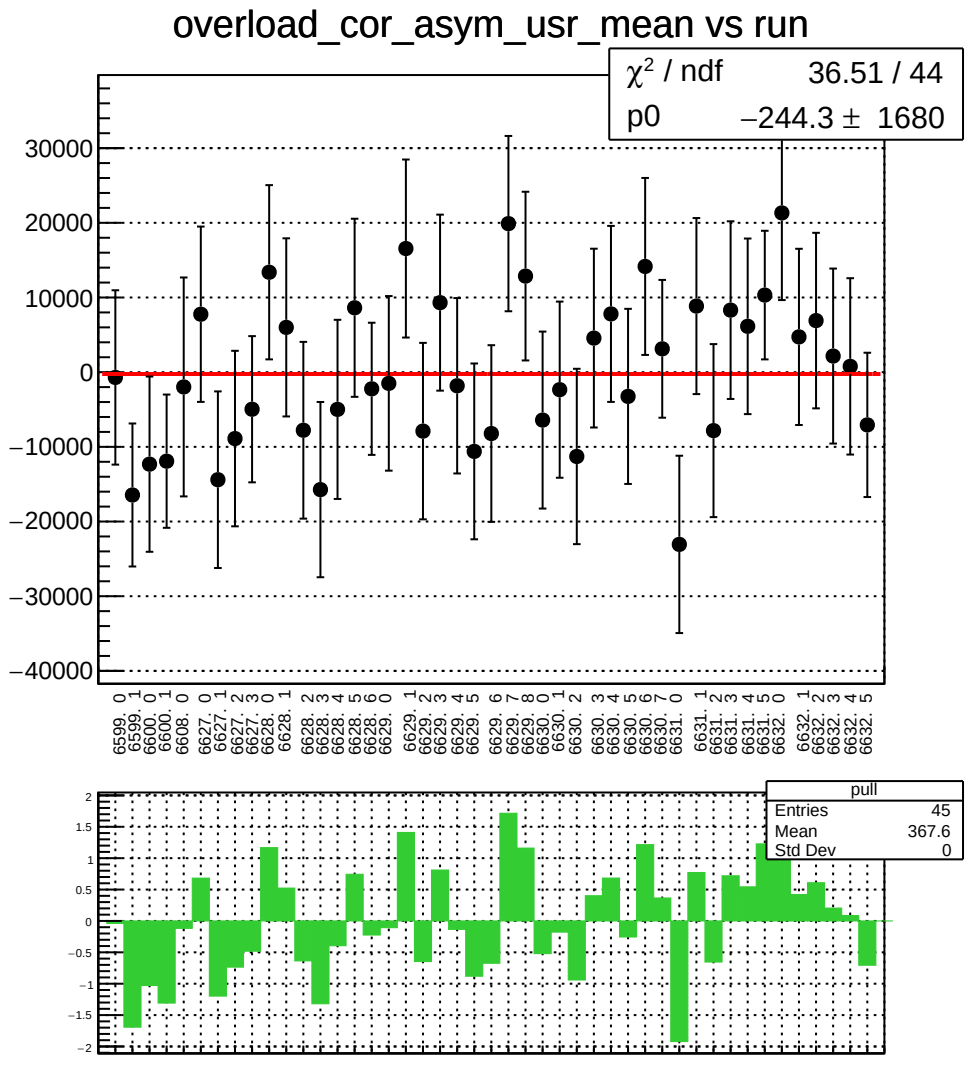
overload_cor_asym_usr_mean vs run
χ² / ndf 36.51 / 44
p0 −244.3 ± 1680
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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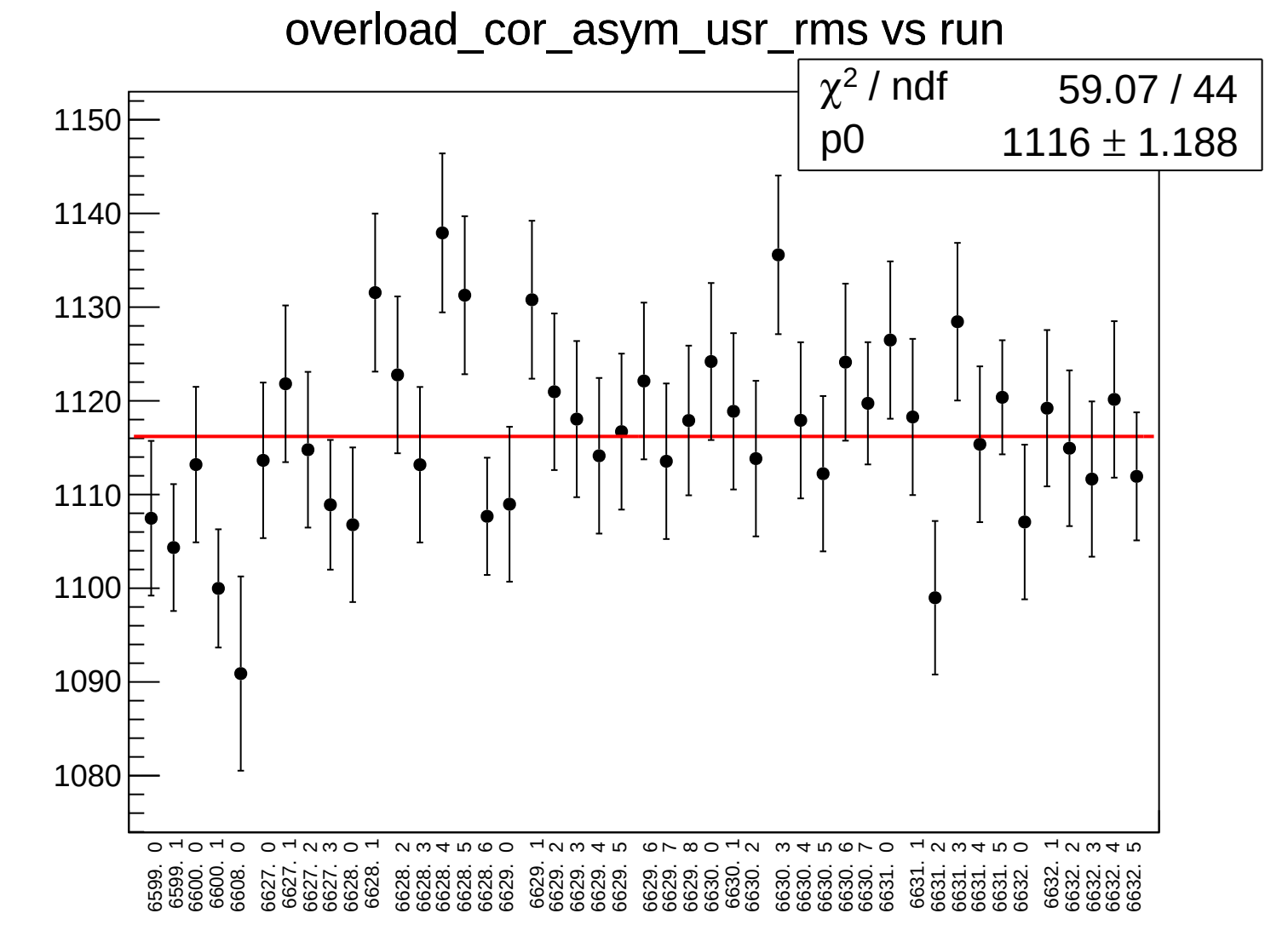
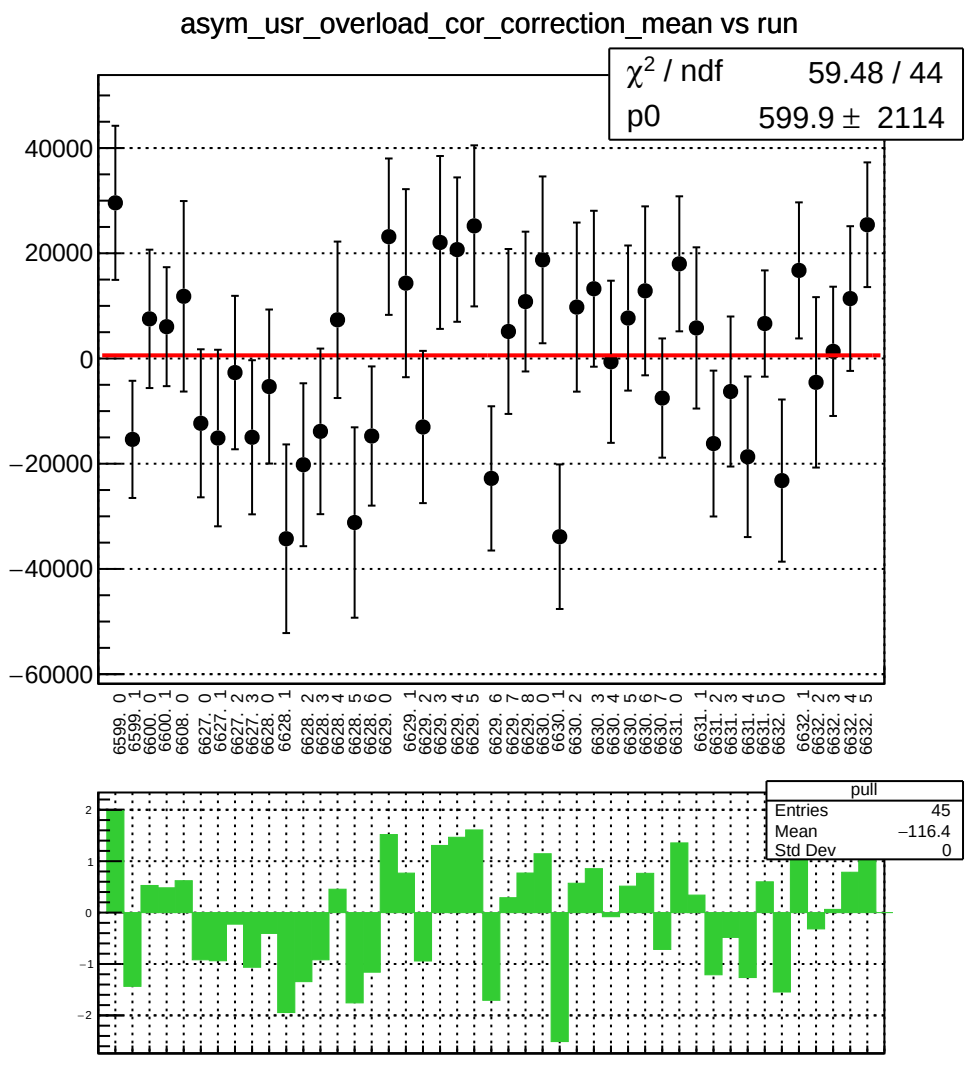
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 367.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01142
Std Dev 0.9007
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


overload_cor_asym_usr_rms vs run
χ² / ndf 59.07 / 44
p0 1116 ± 1.188
1150
1140
1130
1120
1110
1100
1090
1080
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_usr_overload_cor_correction_mean vs run
χ² / ndf 59.48 / 44
p0 599.9 ± 2114
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 8
6630. 0
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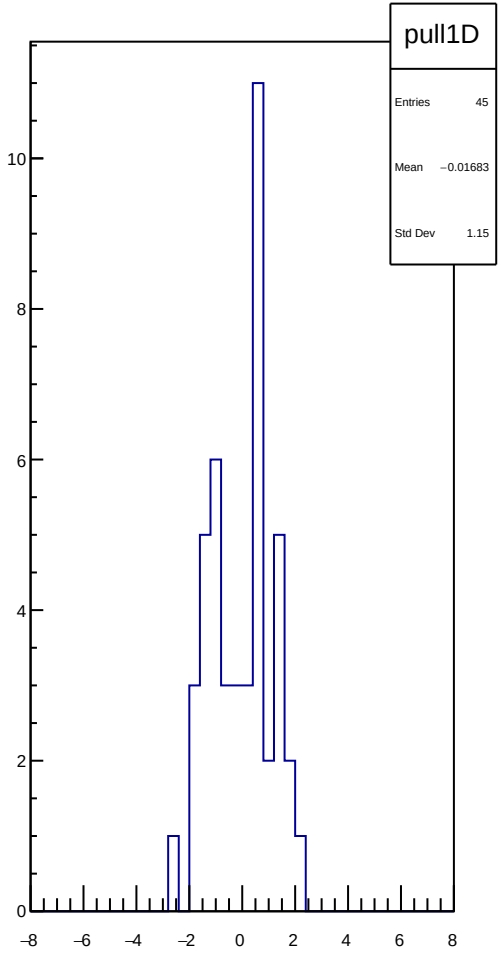
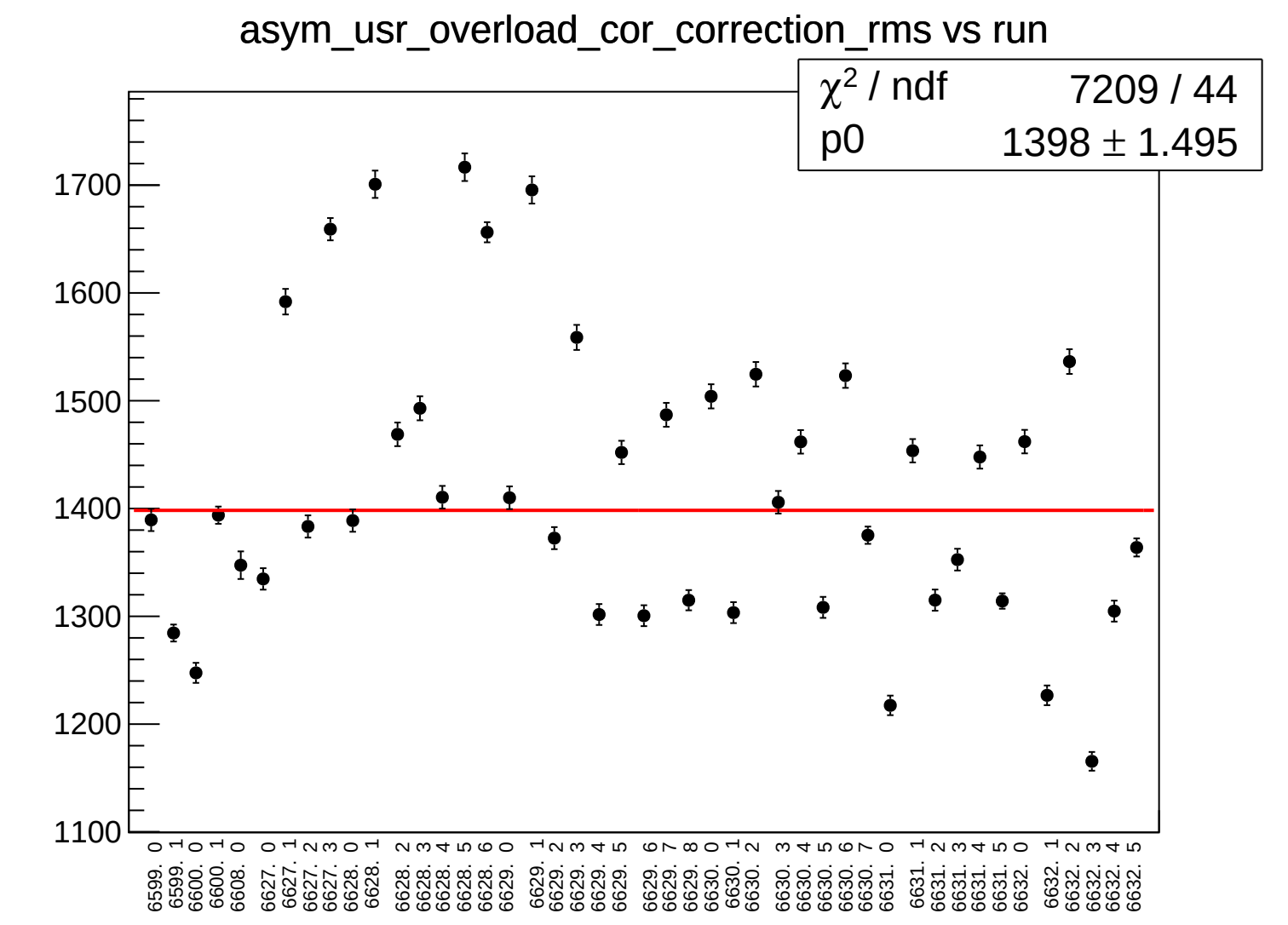
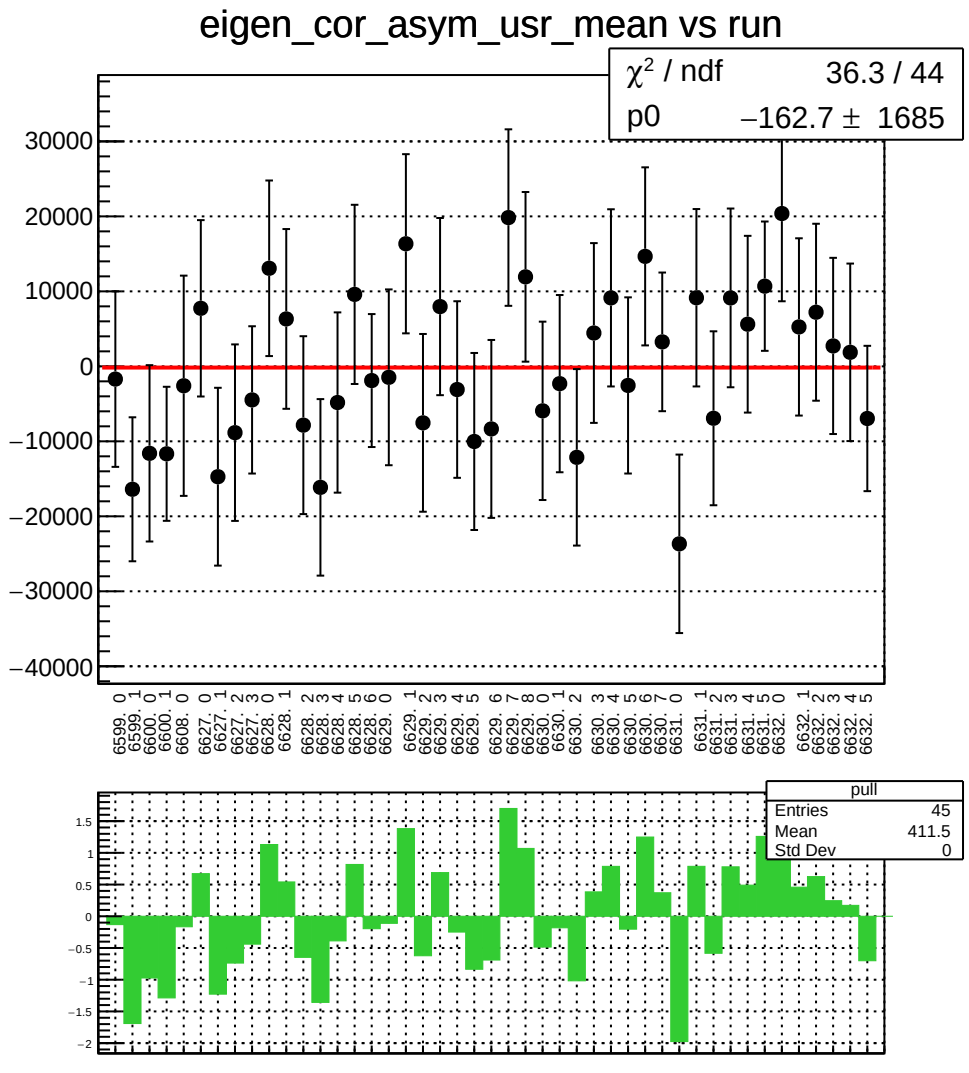
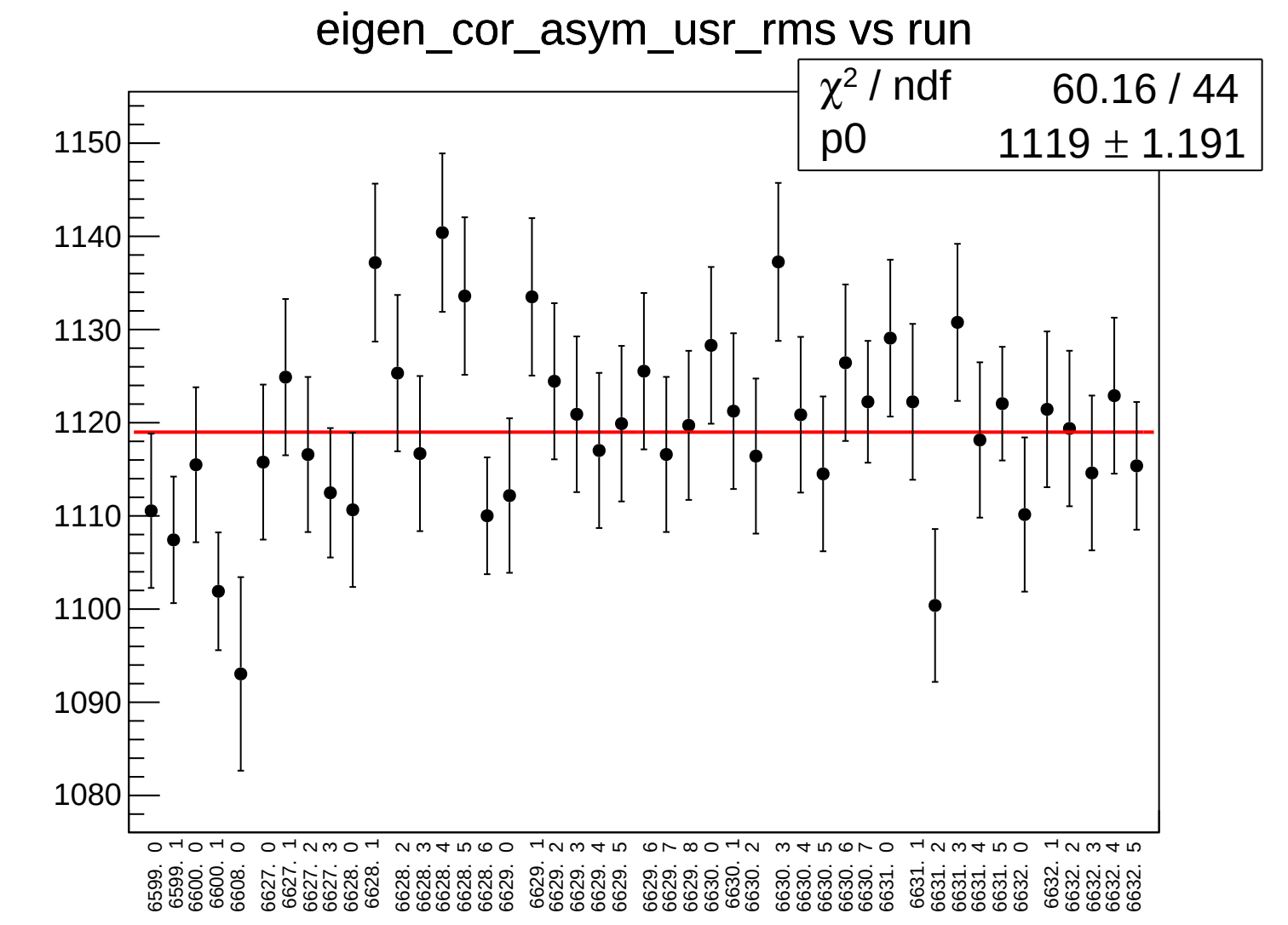
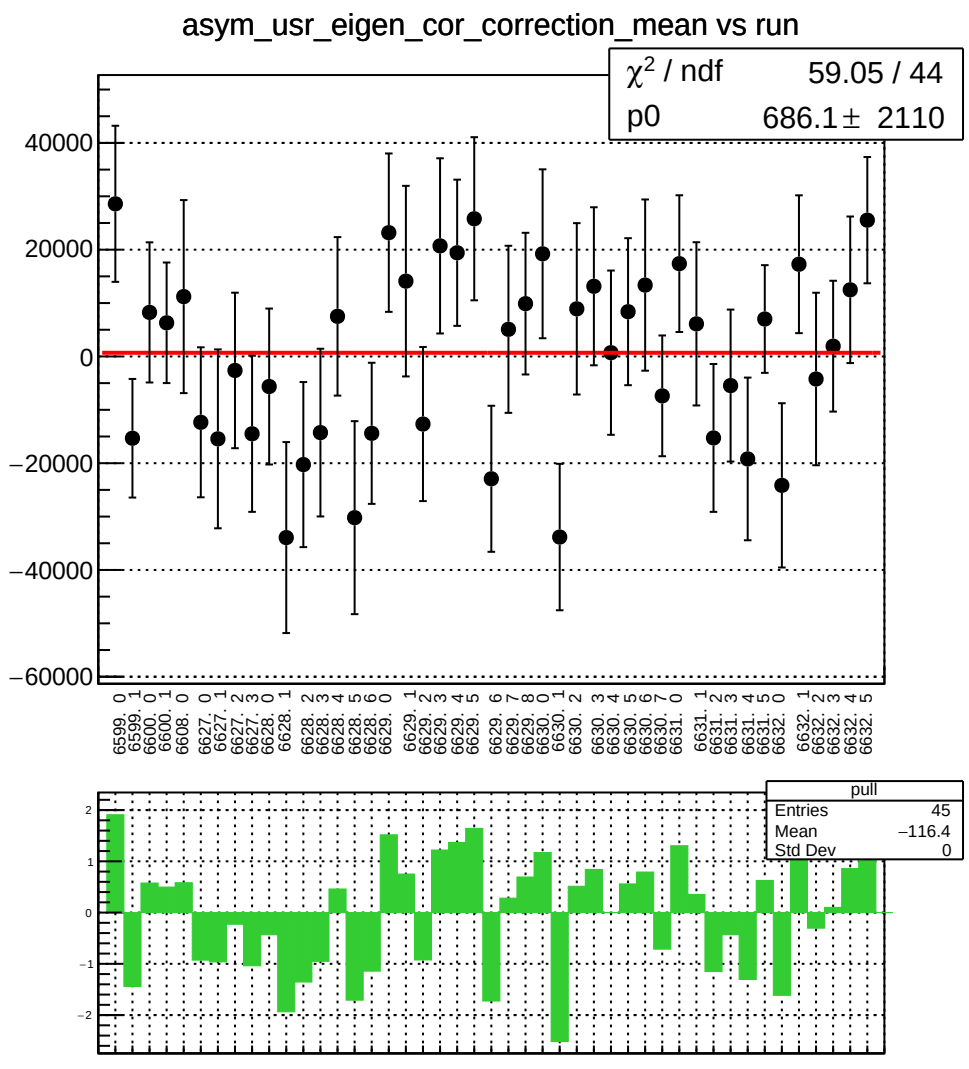
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −116.4
Std Dev 0
2
1
0
−1
−2

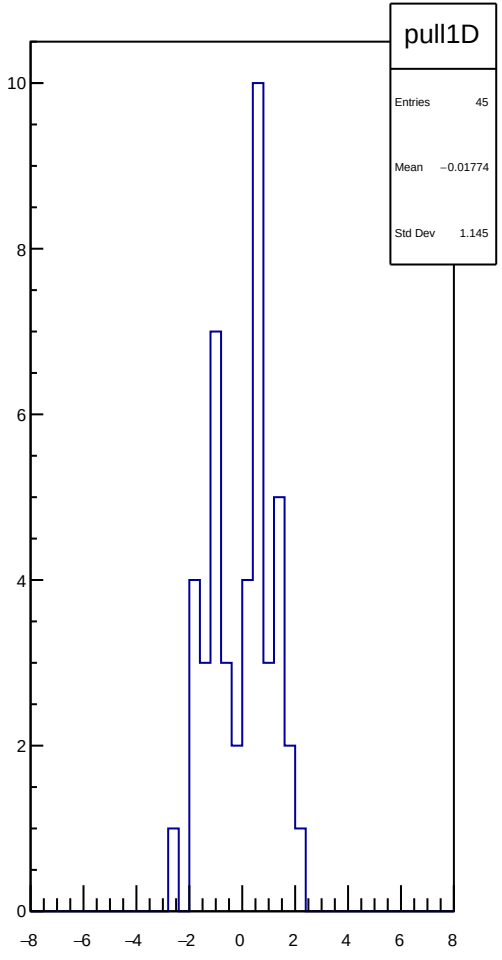

pull1D
Entries 45
Mean −0.01683
Std Dev 1.15
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

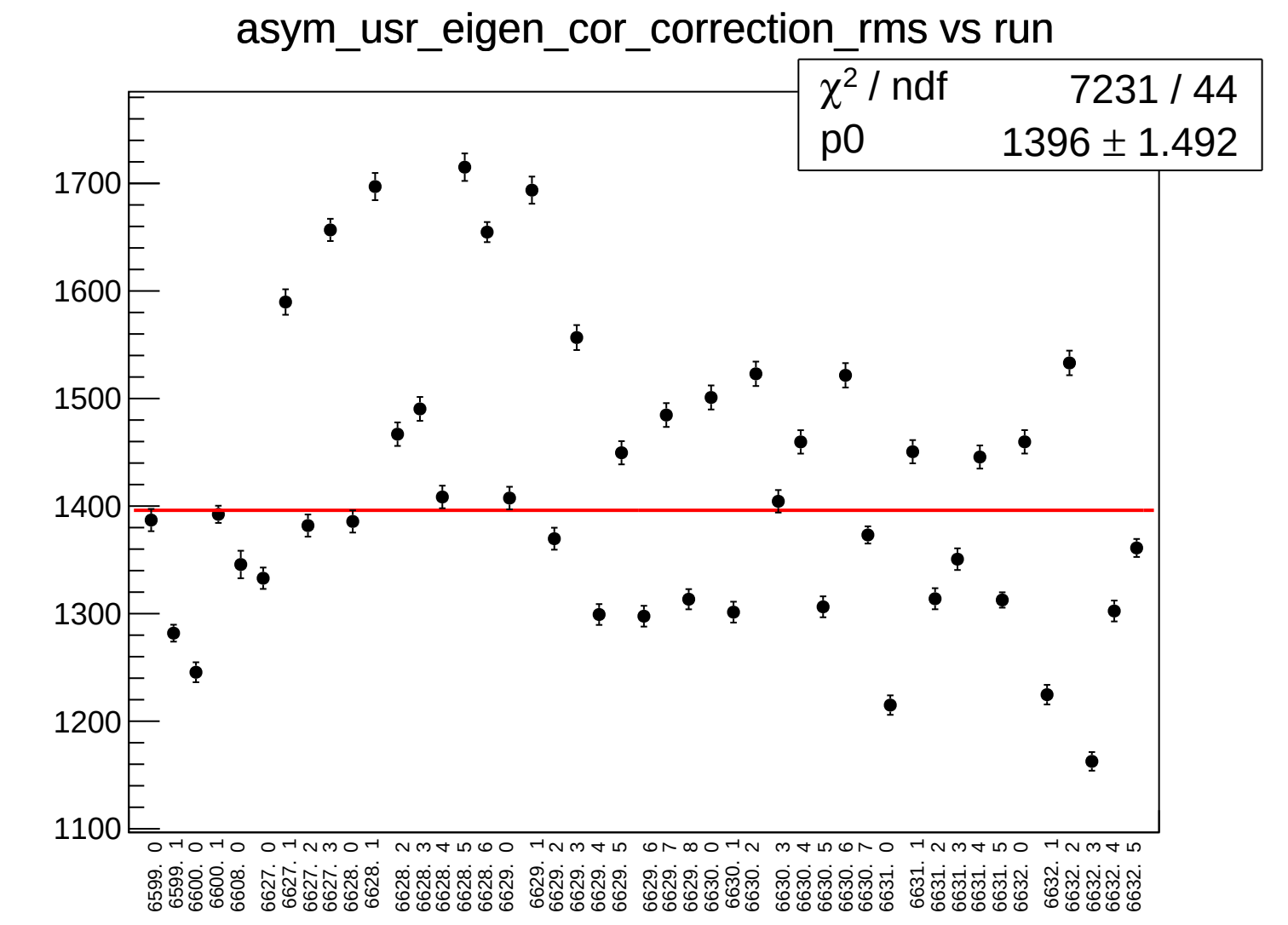

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 7209 / 44
p0 1398 ± 1.495
1700
1600
1500
1400
1300
1200
1100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

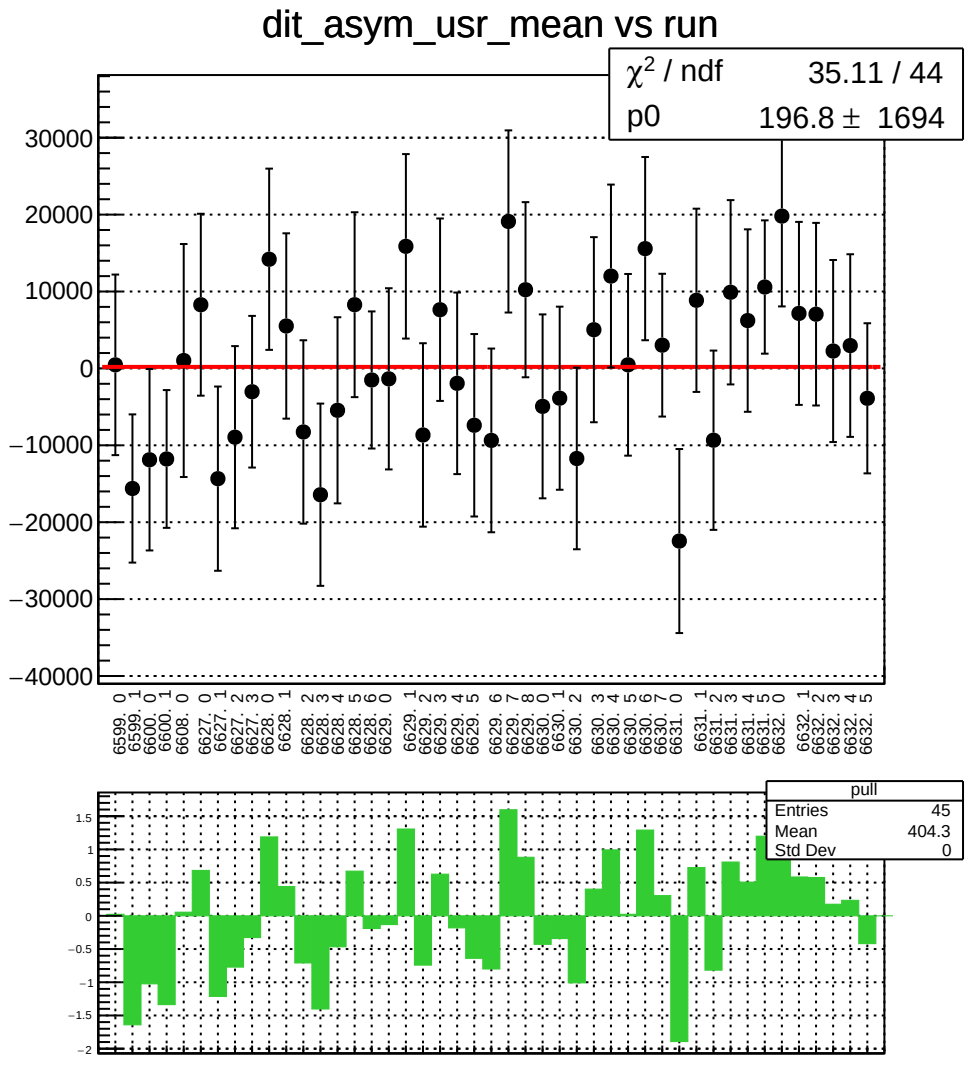

eigen_cor_asym_usr_mean vs run
χ² / ndf 36.3 / 44
p0 −162.7 ± 1685
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 411.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01048
Std Dev 0.8981
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

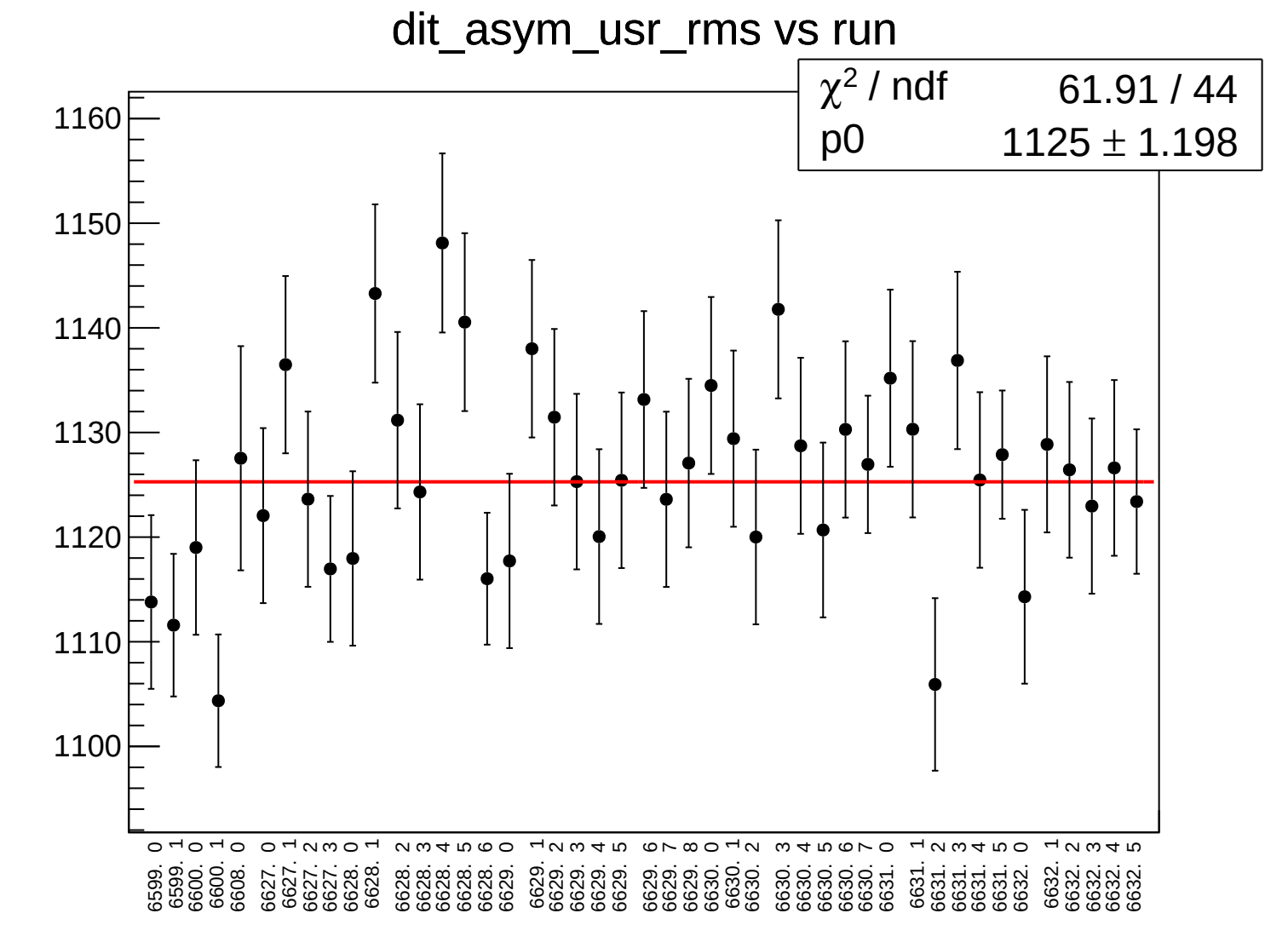

eigen_cor_asym_usr_rms vs run
χ² / ndf 60.16 / 44
p0 1119 ± 1.191
1150
1140
1130
1120
1110
1100
1090
1080
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

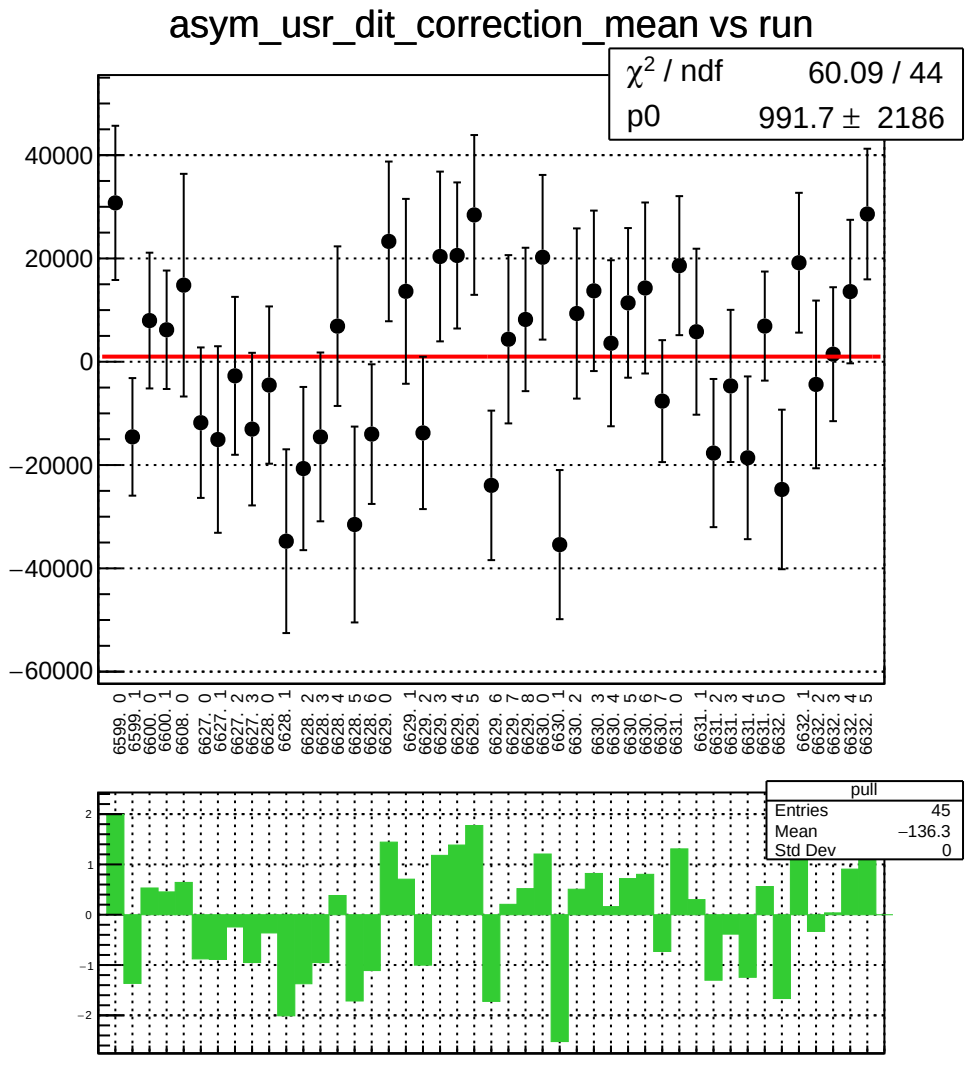

asym_usr_eigen_cor_correction_mean vs run
χ² / ndf 59.05 / 44
p0 686.1 ± 2110
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −116.4
Std Dev 0
2
1
0
−1
−2

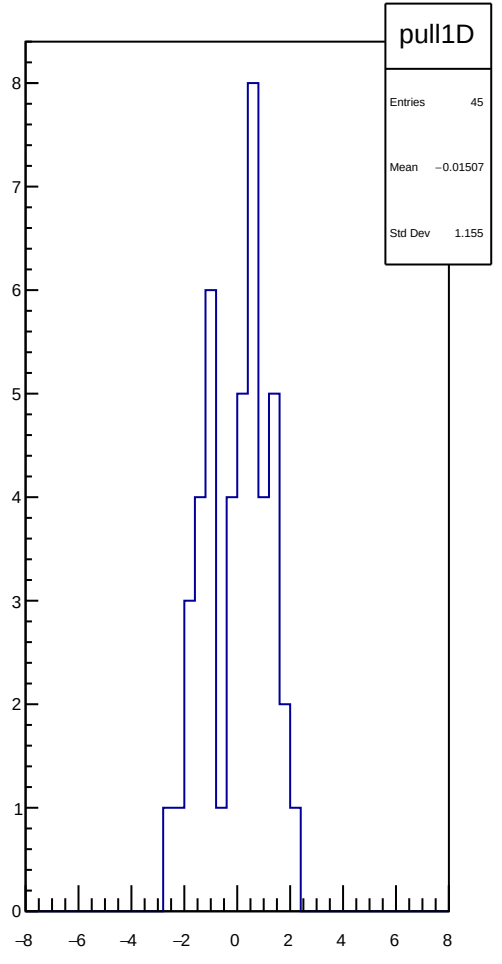

pull1D
Entries 45
Mean −0.01774
Std Dev 1.145
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

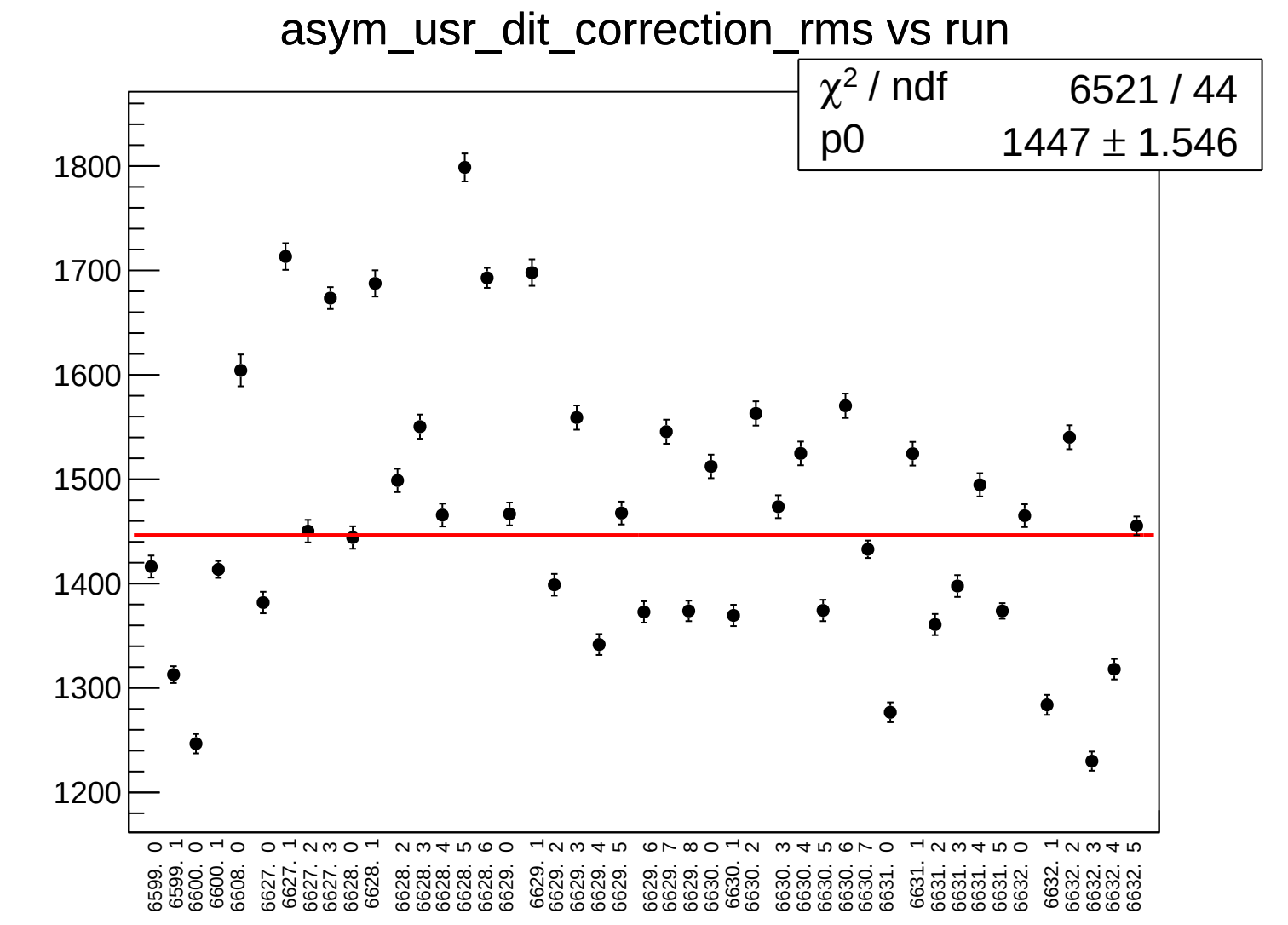

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 7231 / 44
p0 1396 ± 1.492
1700
1600
1500
1400
1300
1200
1100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

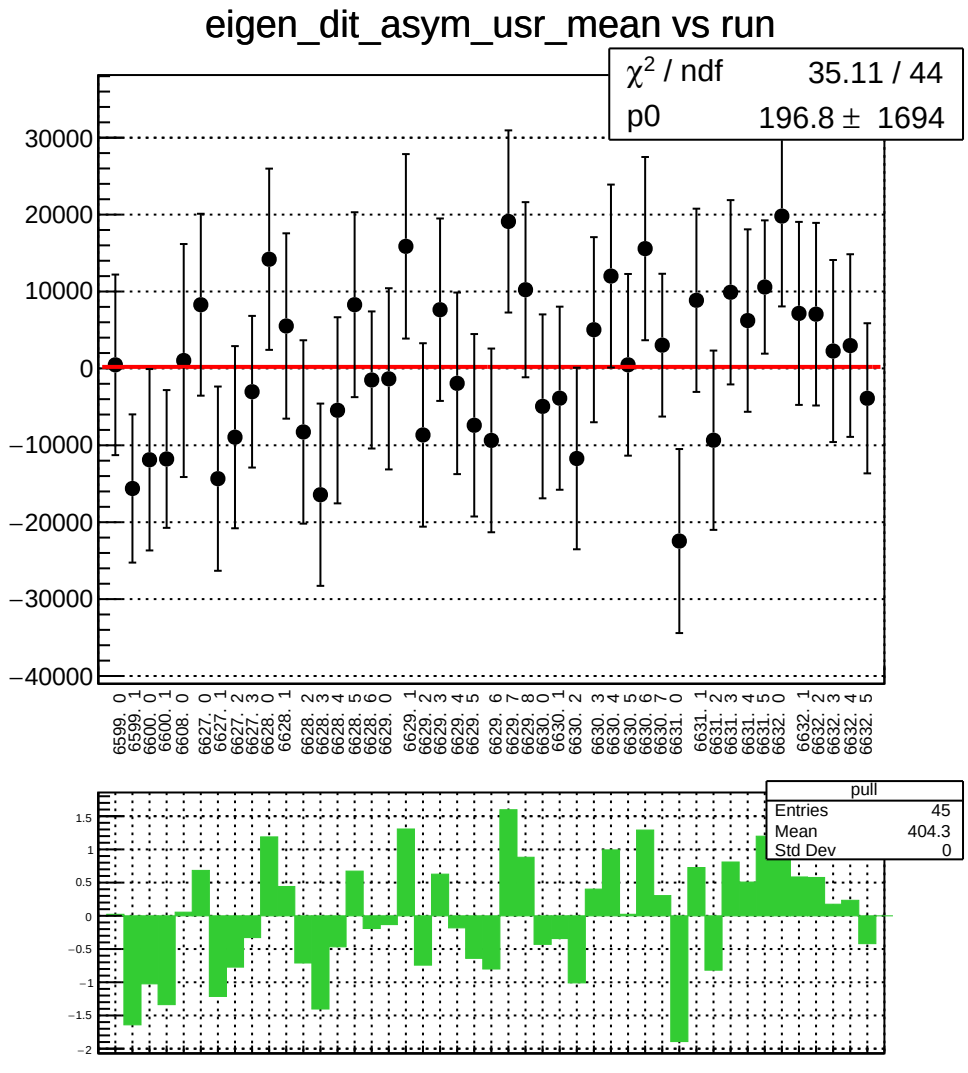

dit_asym_usr_mean vs run
$\chi^2$ / ndf 35.11 / 44
p0 196.8 ± 1694
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 404.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01075
Std Dev 0.8833
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

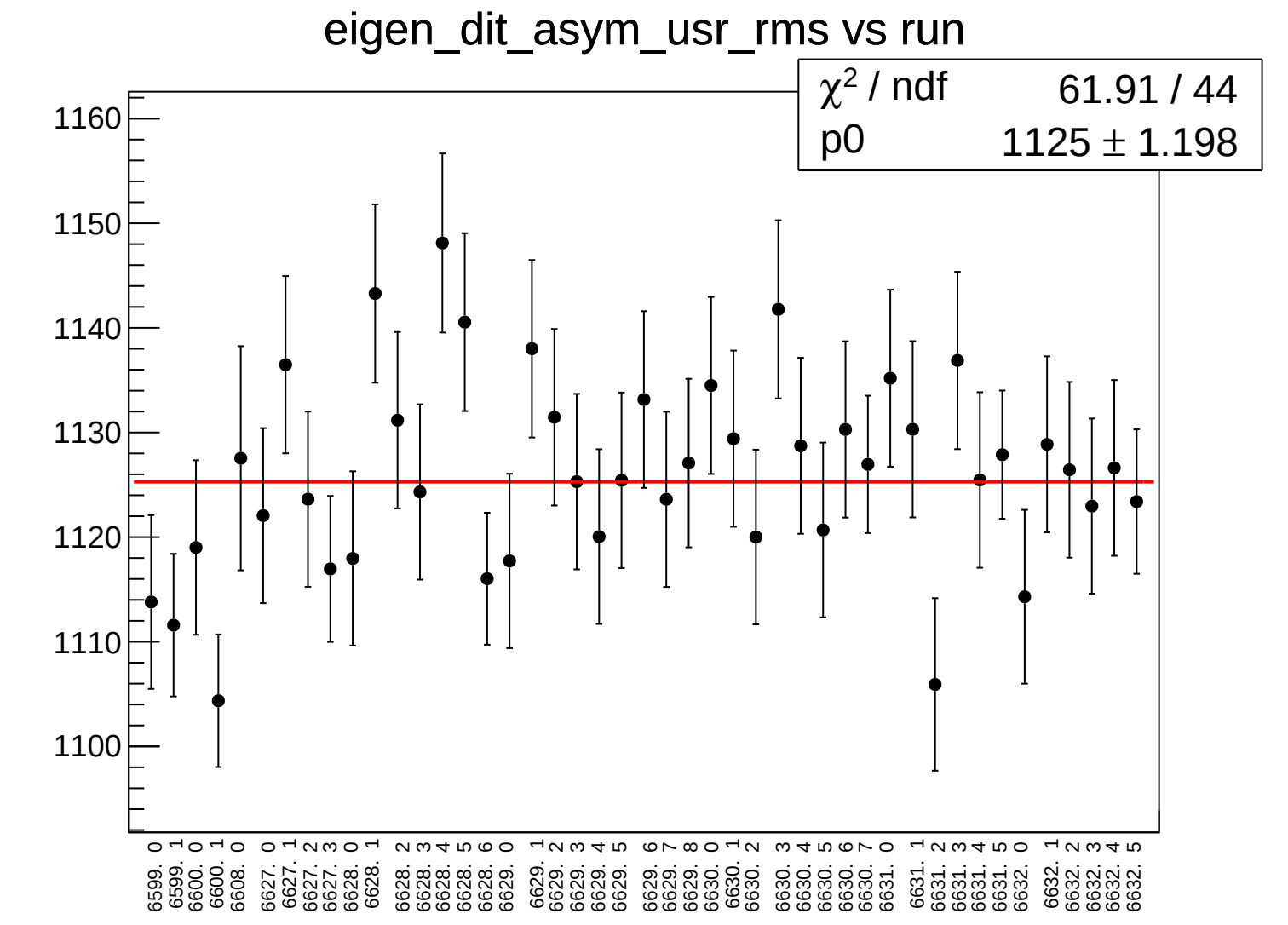

dit_asym_usr_rms vs run
χ² / ndf 61.91 / 44
p0 1125 ± 1.198
1160
1150
1140
1130
1120
1110
1100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_usr_dit_correction_mean vs run
χ² / ndf 60.09 / 44
p0 991.7 ± 2186
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −136.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.01507
Std Dev 1.155
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_dit_correction_rms vs run
χ² / ndf 6521 / 44
p0 1447 ± 1.546
1800
1700
1600
1500
1400
1300
1200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_usr_mean vs run
χ² / ndf 35.11 / 44
p0 196.8 ± 1694
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 404.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01075
Std Dev 0.8833
9
8
7
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 61.91 / 44
p0 1125 ± 1.198
1160
1150
1140
1130
1120
1110
1100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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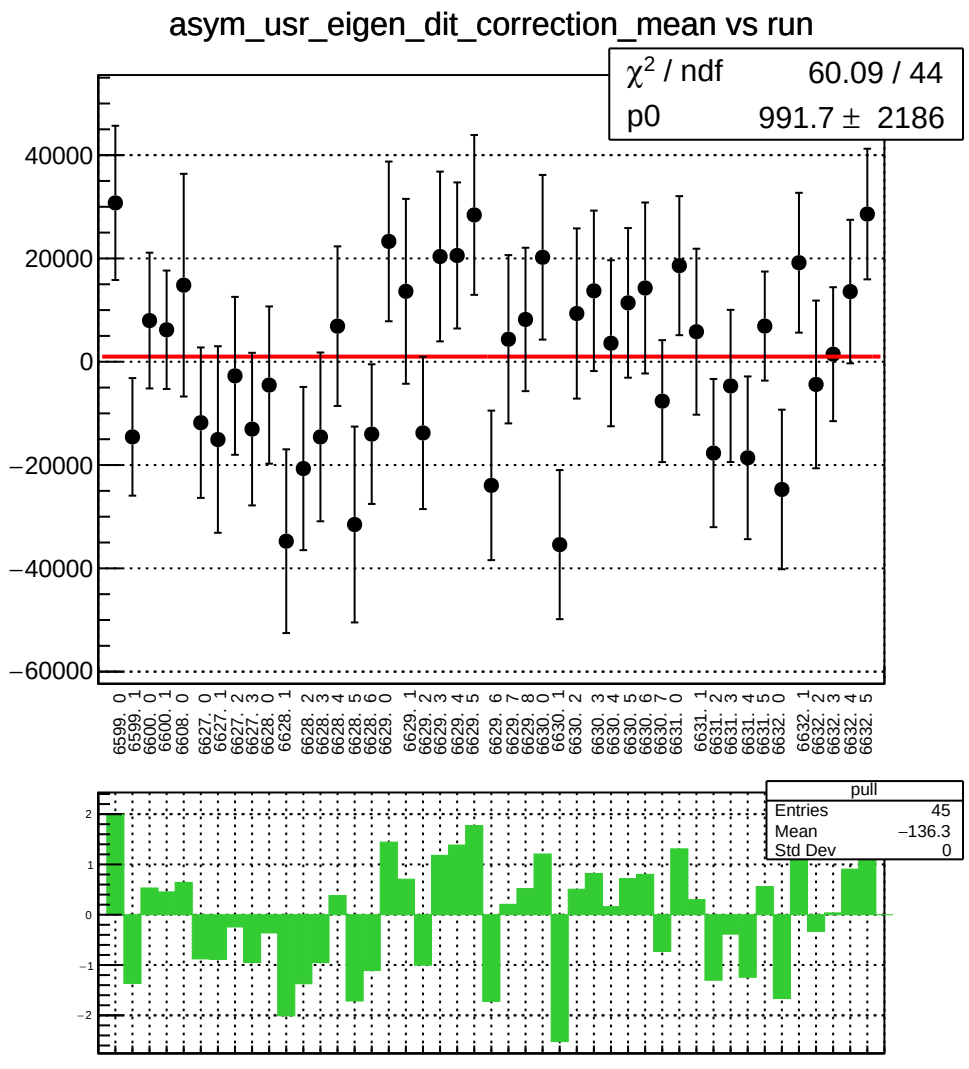
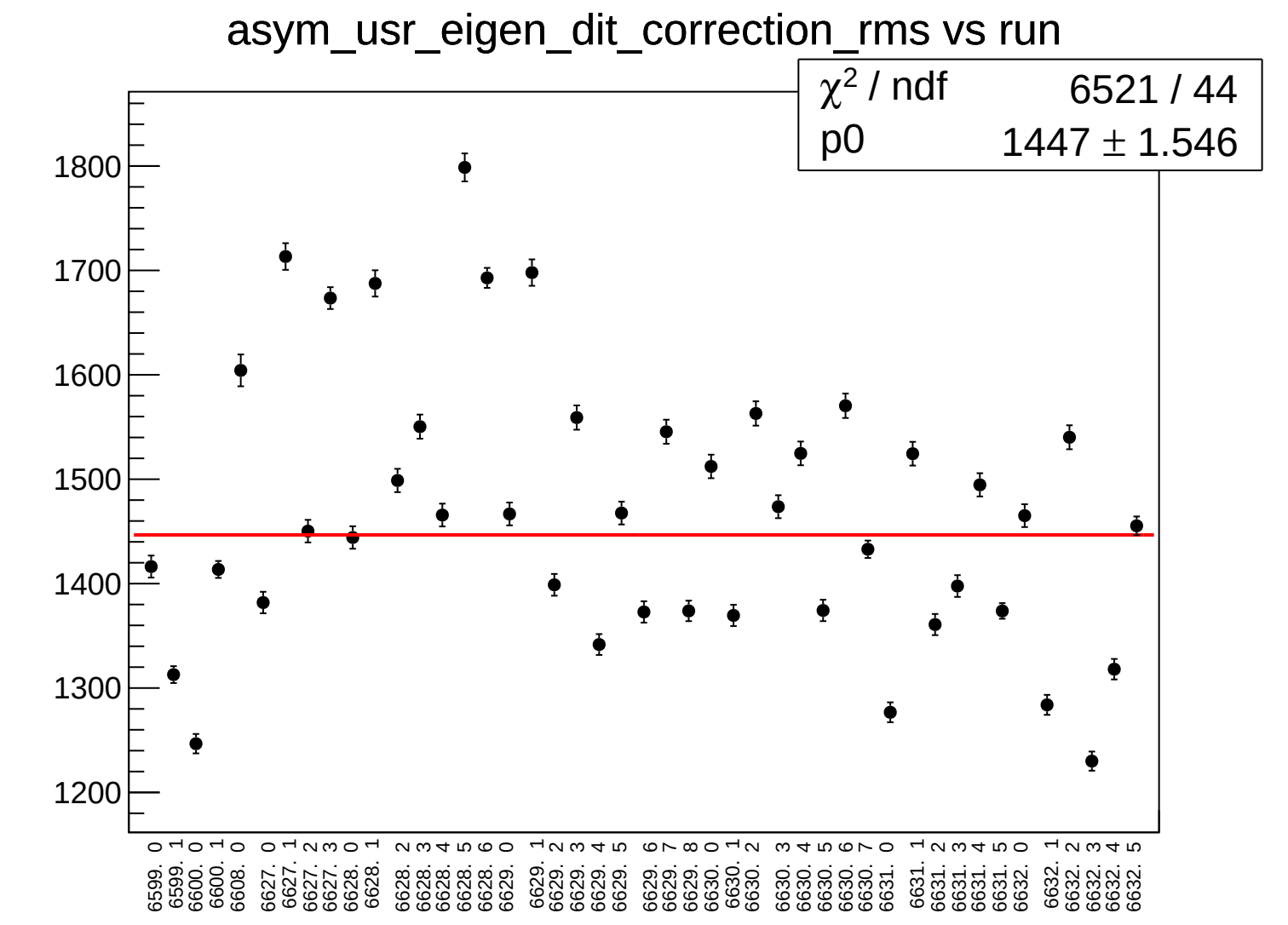
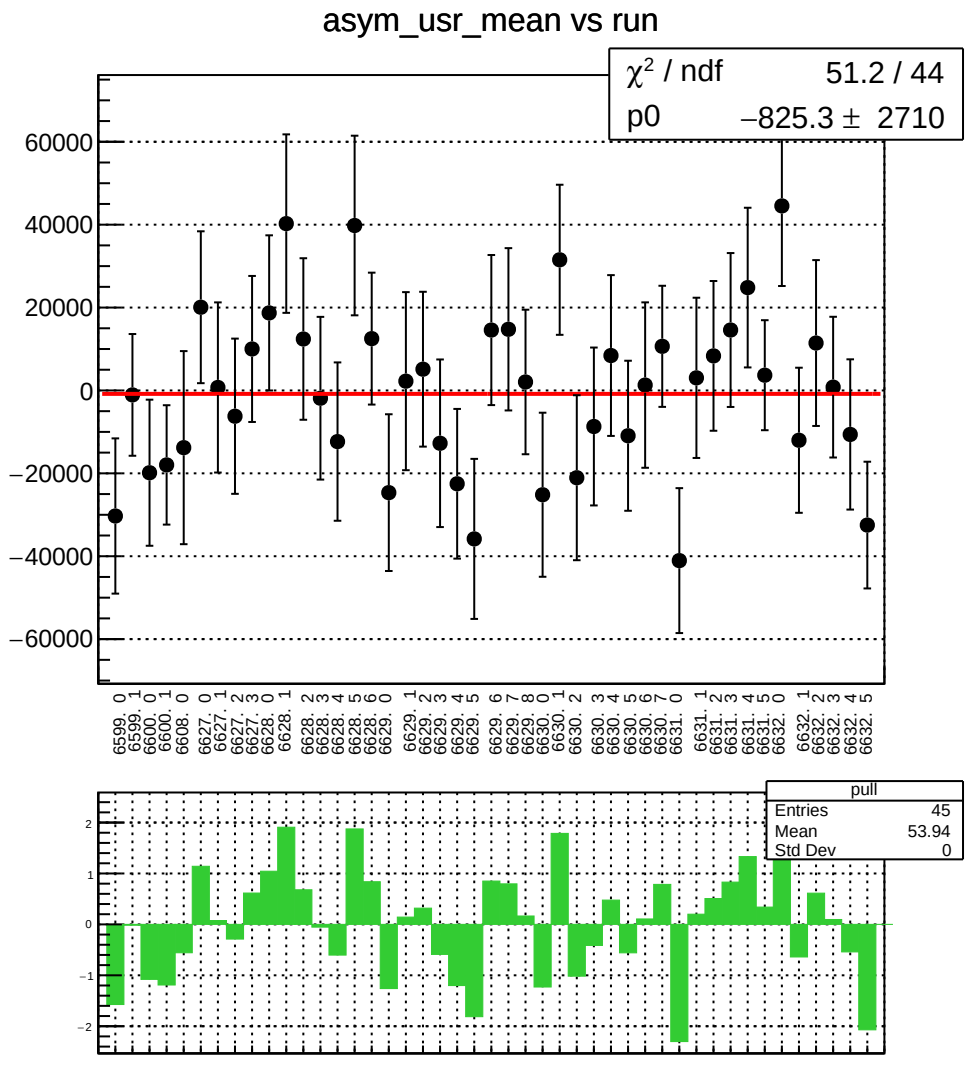
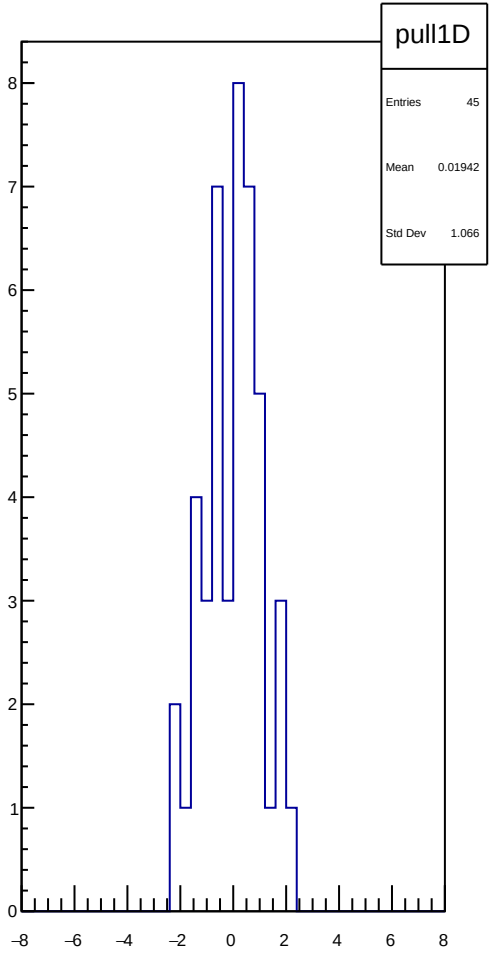
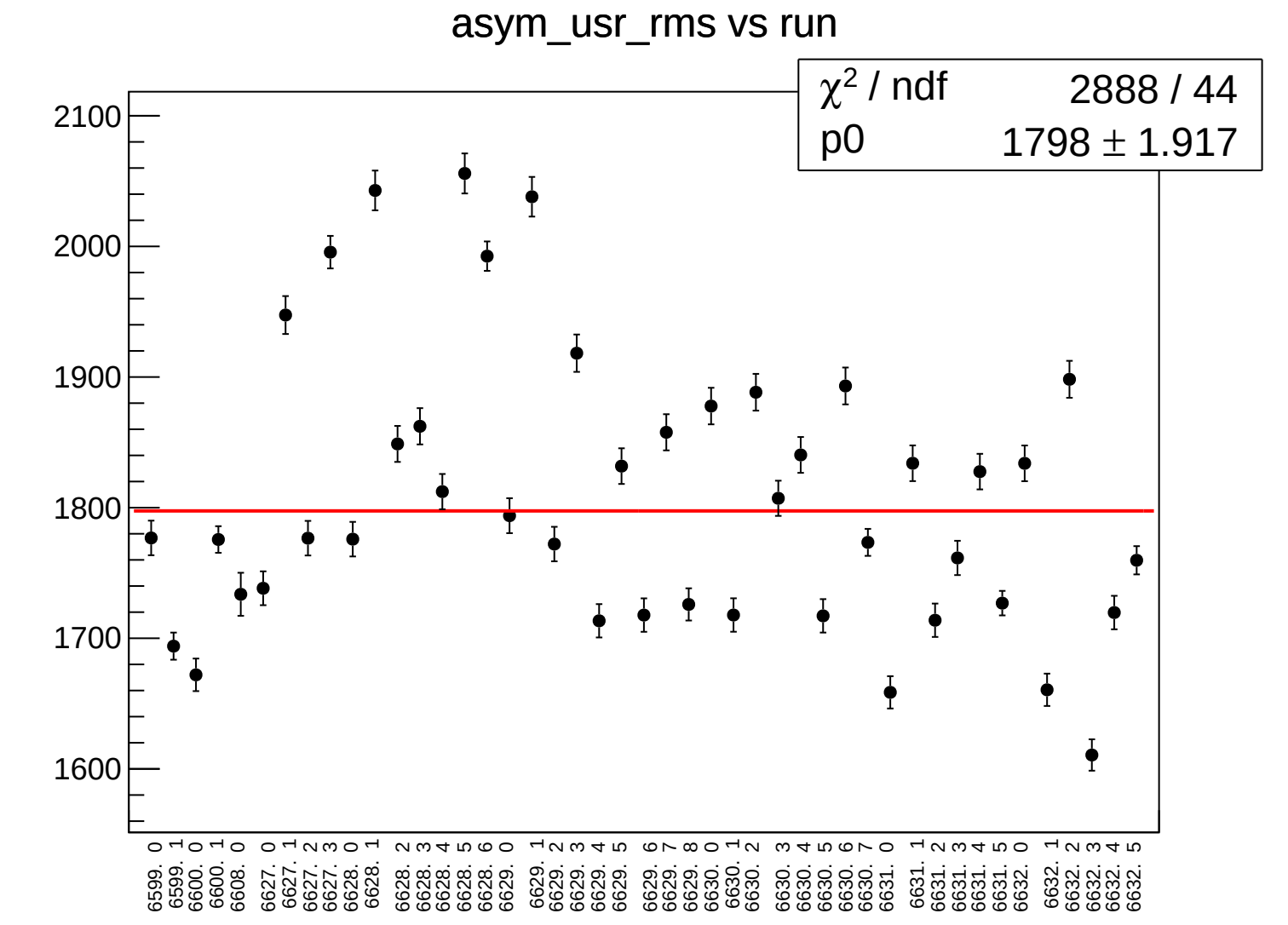
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

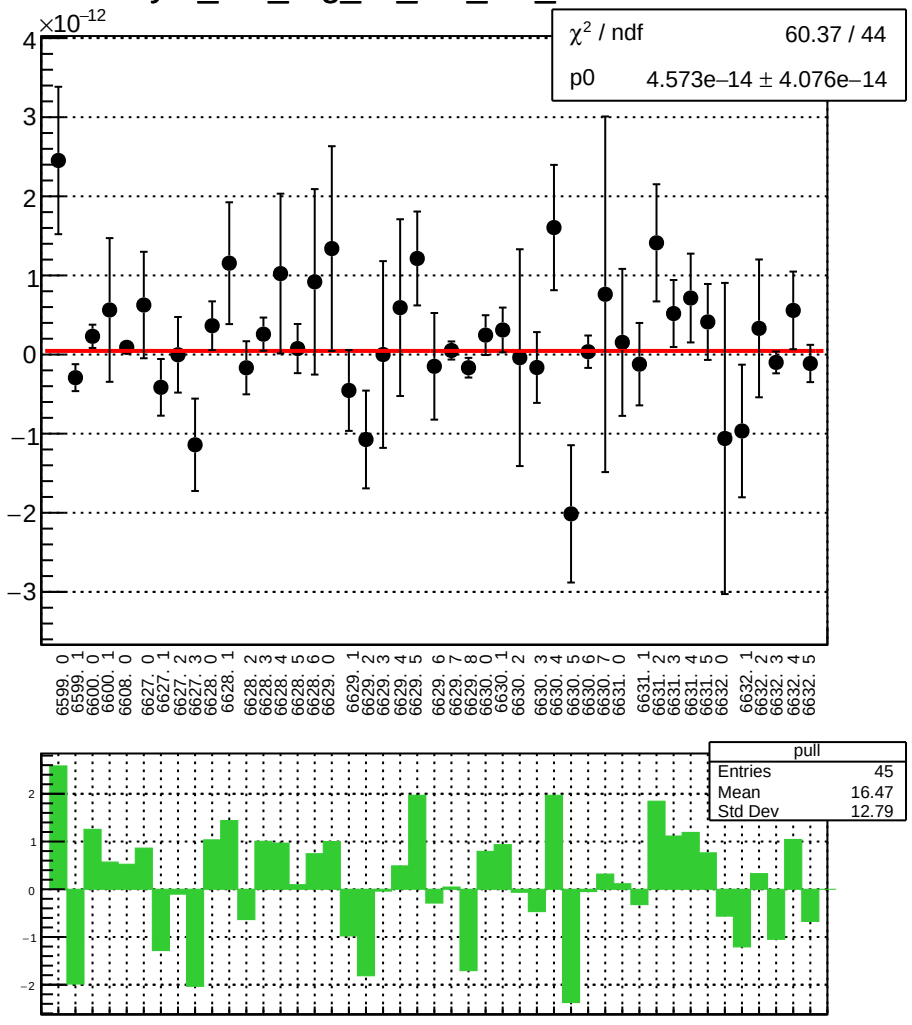

asym_usr_eigen_dit_correction_mean vs run
χ² / ndf 60.09 / 44
p0 991.7 ± 2186
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −136.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01507
Std Dev 1.155
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

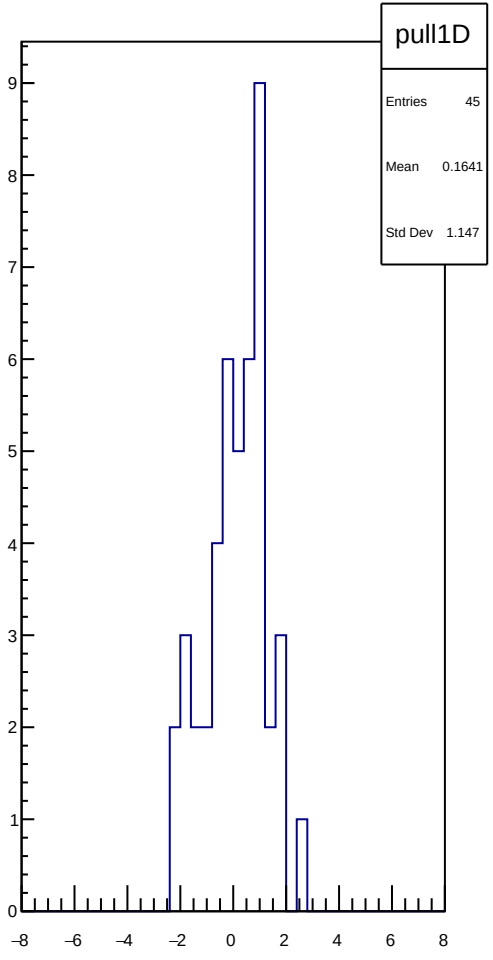

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 6521 / 44
p0 1447 ± 1.546
1800
1700
1600
1500
1400
1300
1200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

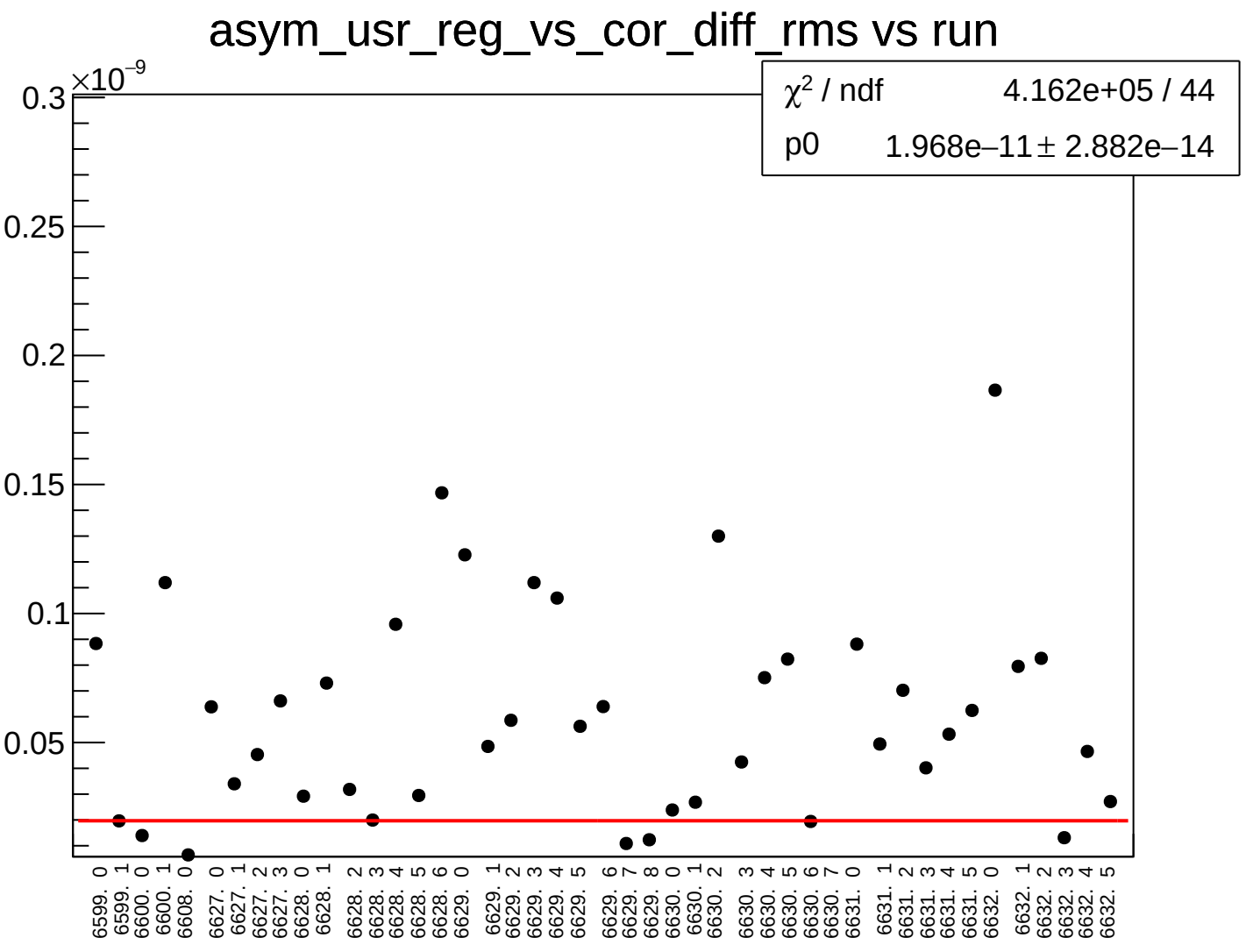

asym_usr_mean vs run
χ² / ndf 51.2 / 44
p0 −825.3 ± 2710
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 53.94
Std Dev 0
2
1
0
−1
−2

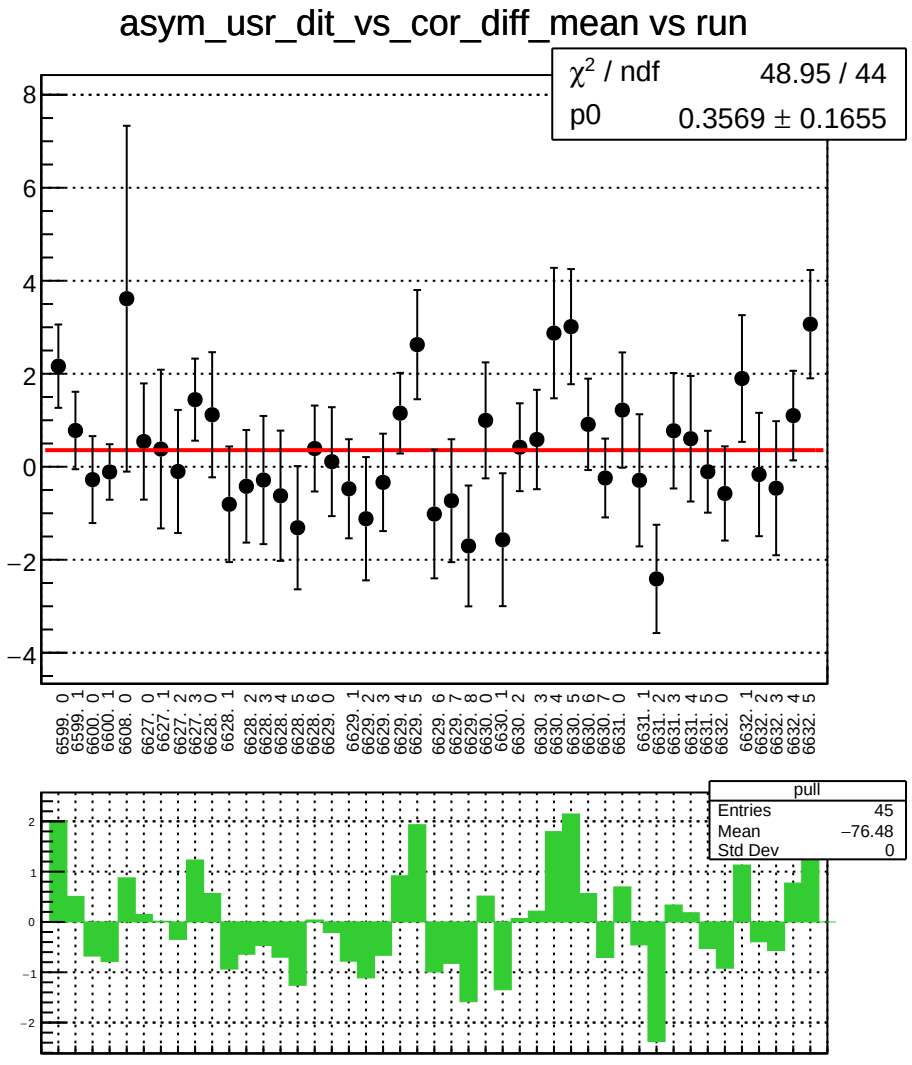

pull1D
Entries 45
Mean 0.01942
Std Dev 1.066
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

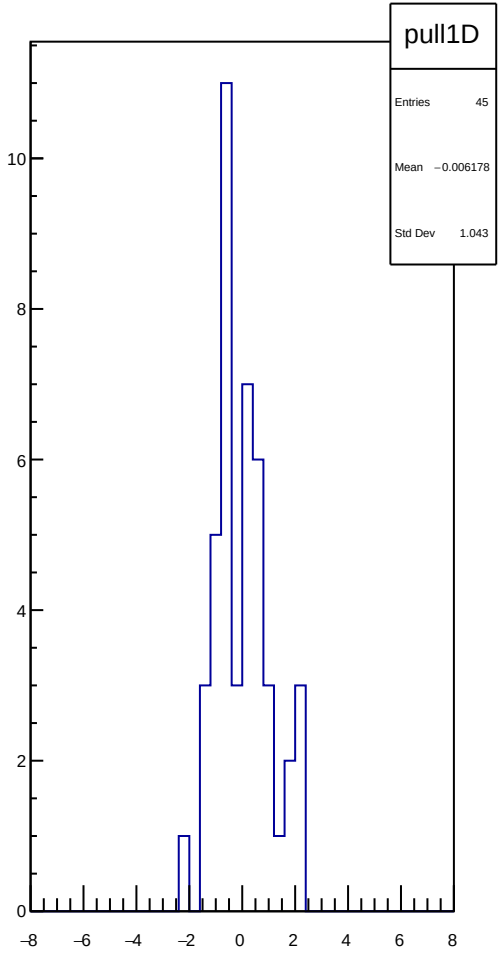

asym_usr_rms vs run
χ² / ndf 2888 / 44
p0 1798 ± 1.917
2100
2000
1900
1800
1700
1600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

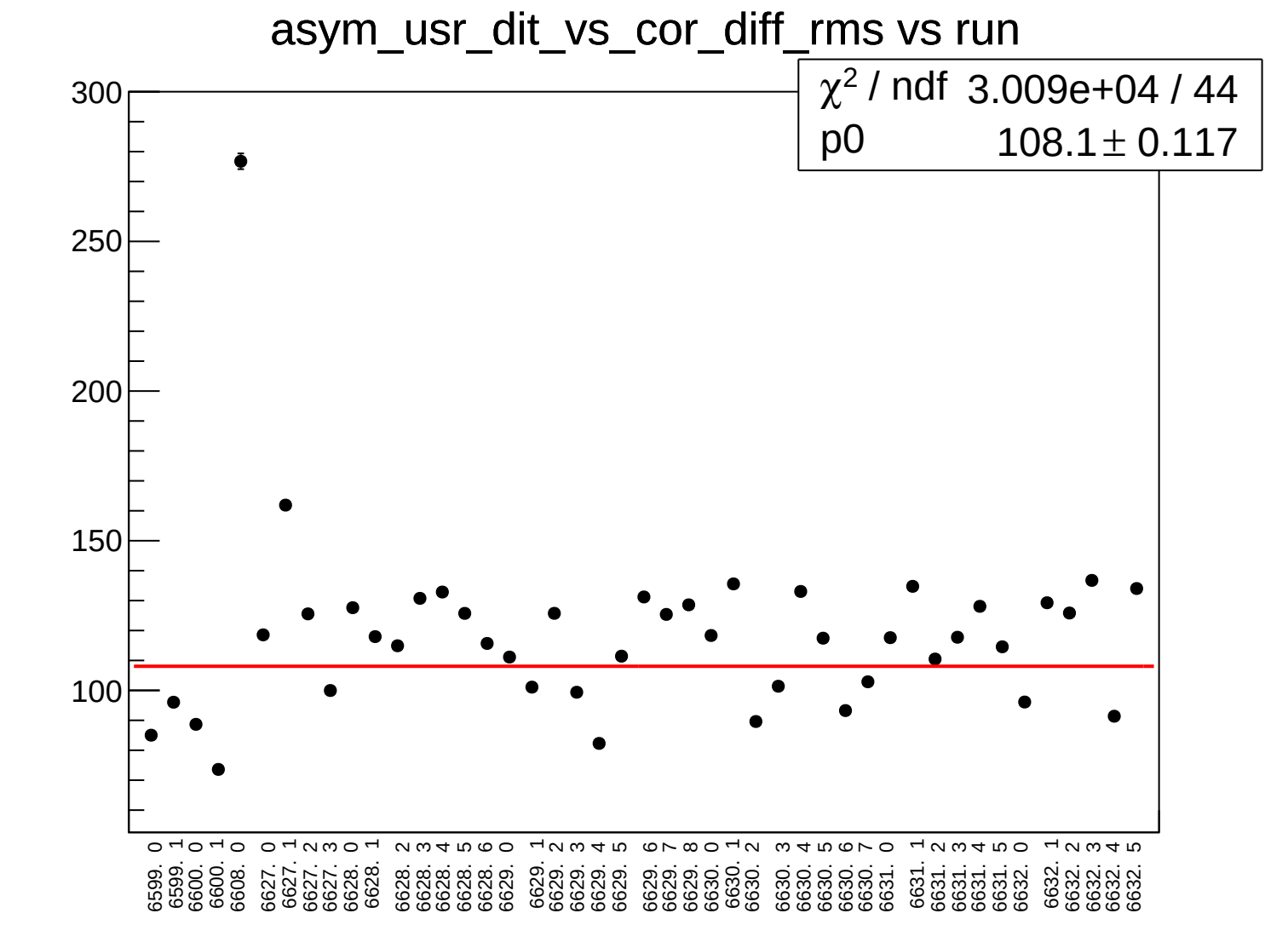

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 60.37 / 44
p0 4.573e−14 ± 4.076e−14
pull
Entries 45
Mean 16.47
Std Dev 12.79

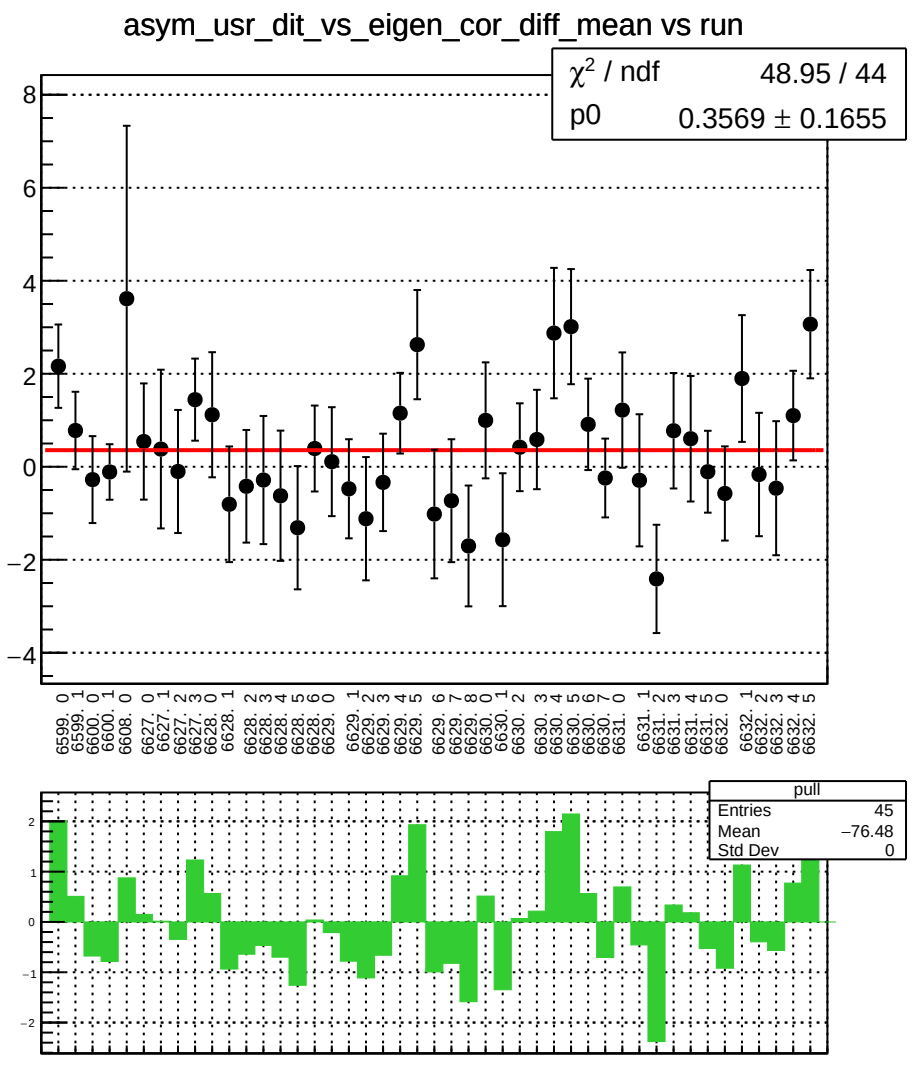

pull1D
Entries 45
Mean 0.1641
Std Dev 1.147

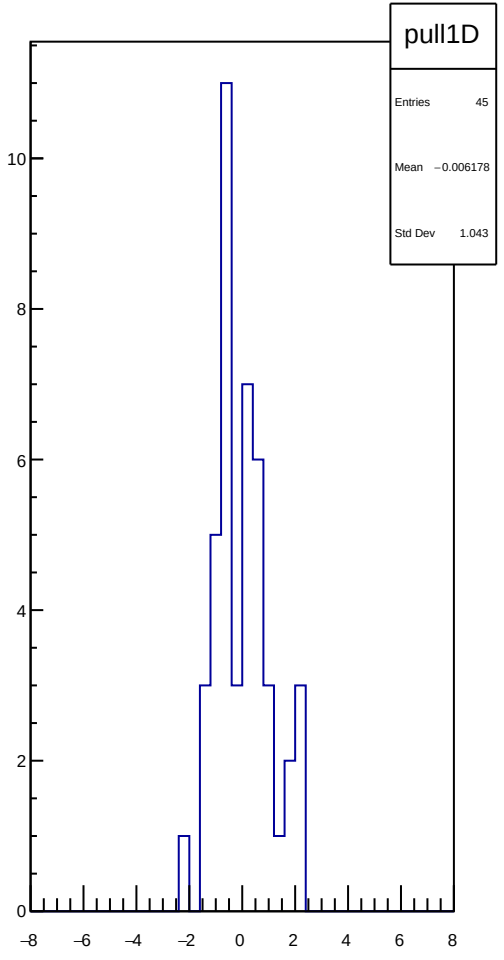

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.162e+05 / 44
p0 1.968e−11 ± 2.882e−14
0.3
0.25
0.2
0.15
0.1
0.05
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

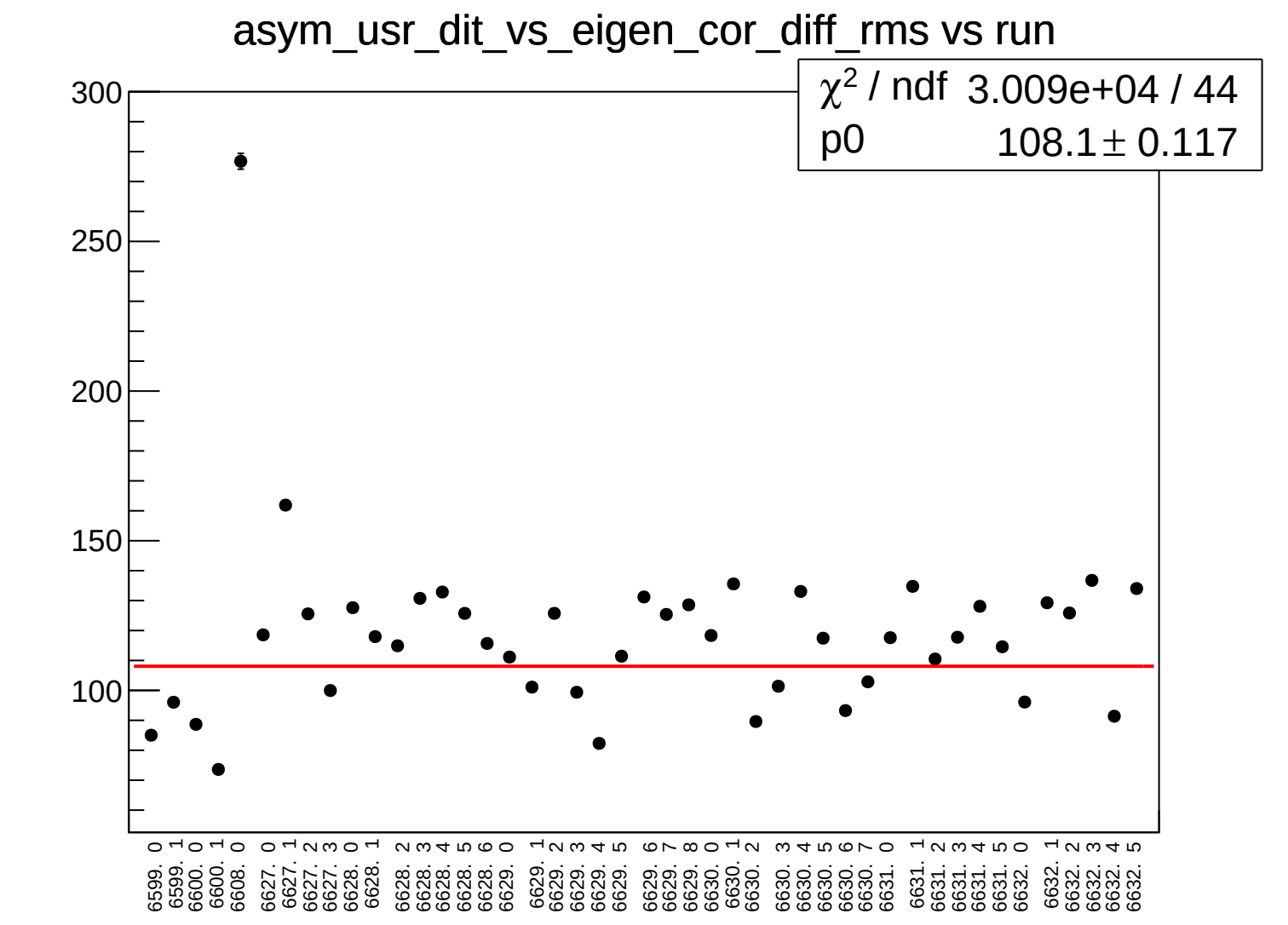

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 48.95 / 44
p0 0.3569 ± 0.1655
pull
Entries 45
Mean −76.48
Std Dev 0


pull1D
Entries 45
Mean −0.006178
Std Dev 1.043

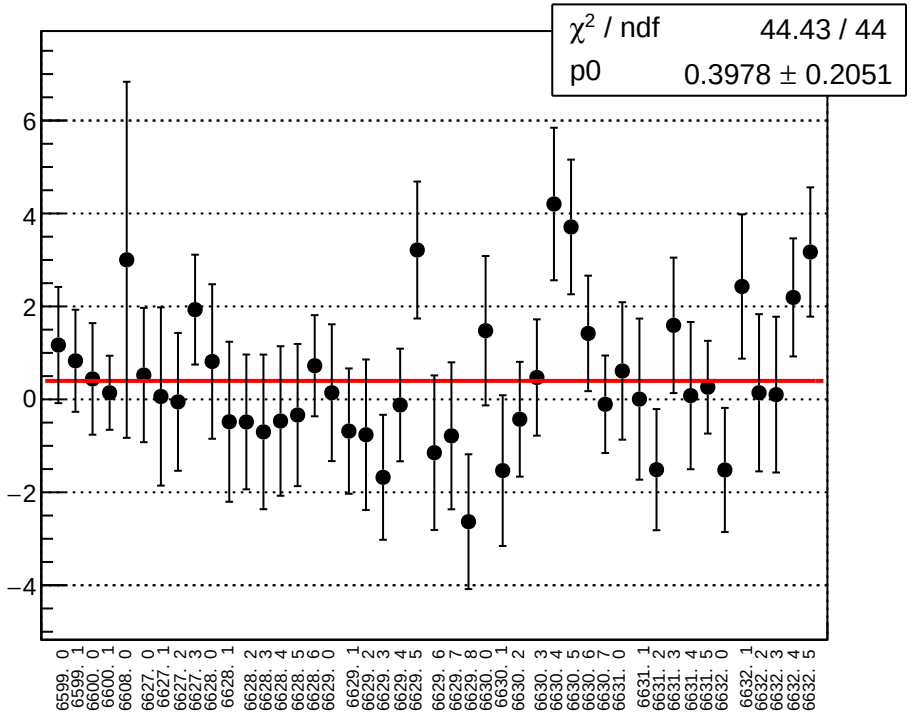

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 3.009e+04 / 44
p0 108.1 ± 0.117
300
250
200
150
100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

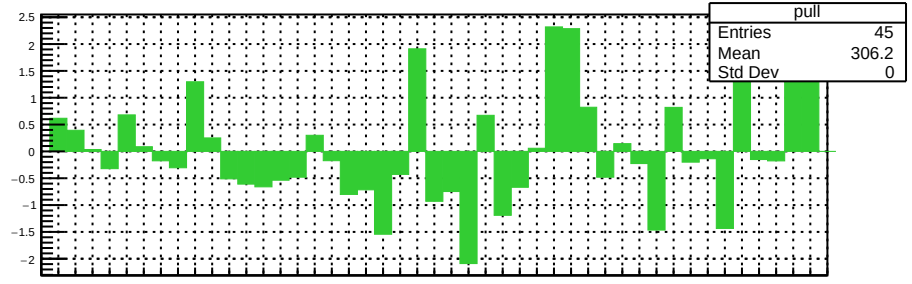

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.95 / 44
p0 0.3569 ± 0.1655
pull
Entries 45
Mean −76.48
Std Dev 0

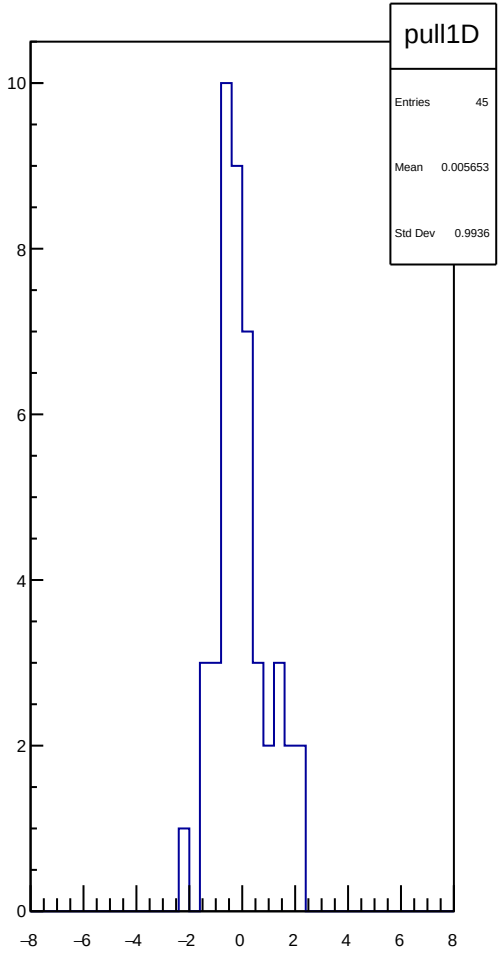

pull1D
Entries 45
Mean −0.006178
Std Dev 1.043

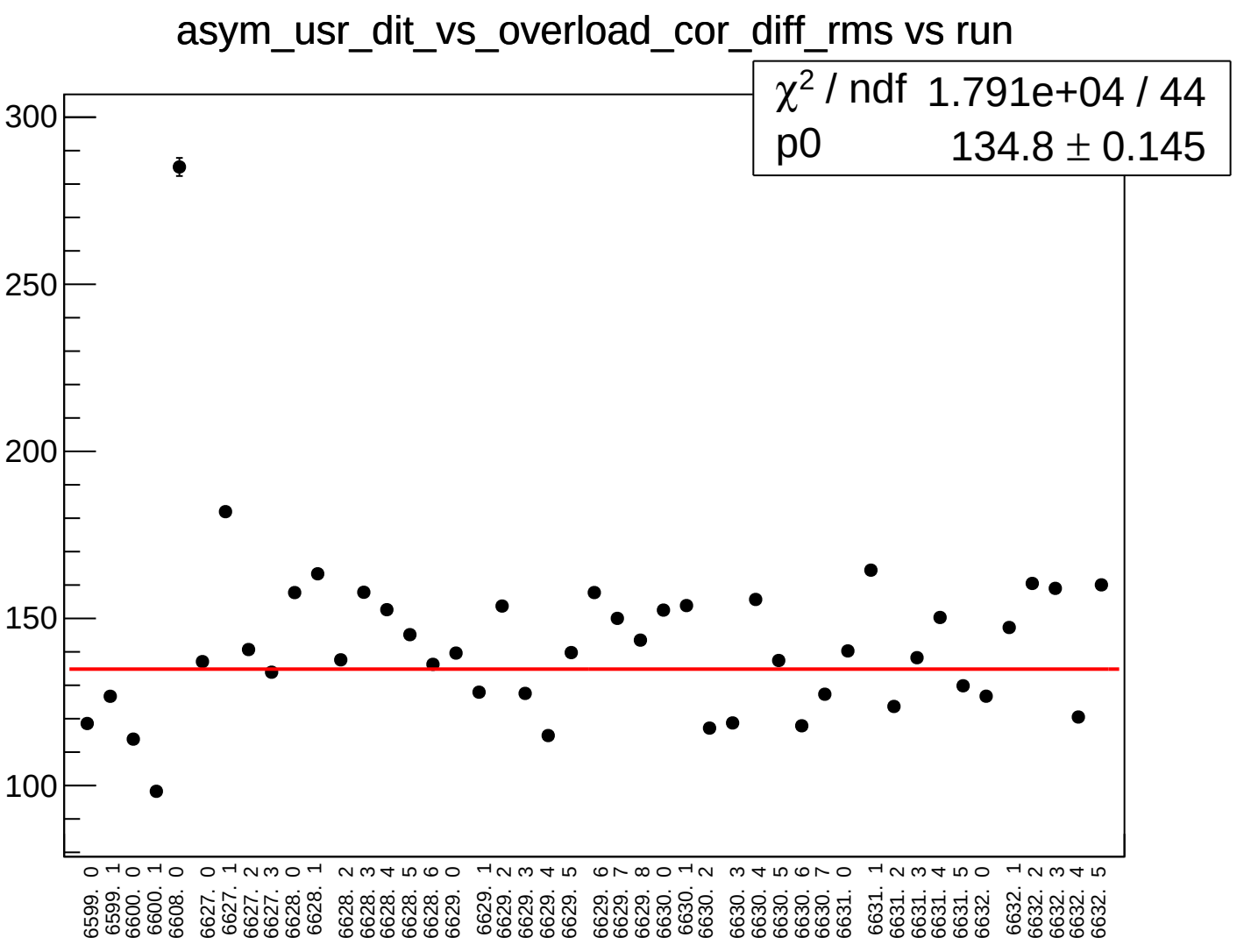

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.009e+04 / 44
p0 108.1 ± 0.117
300
250
200
150
100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

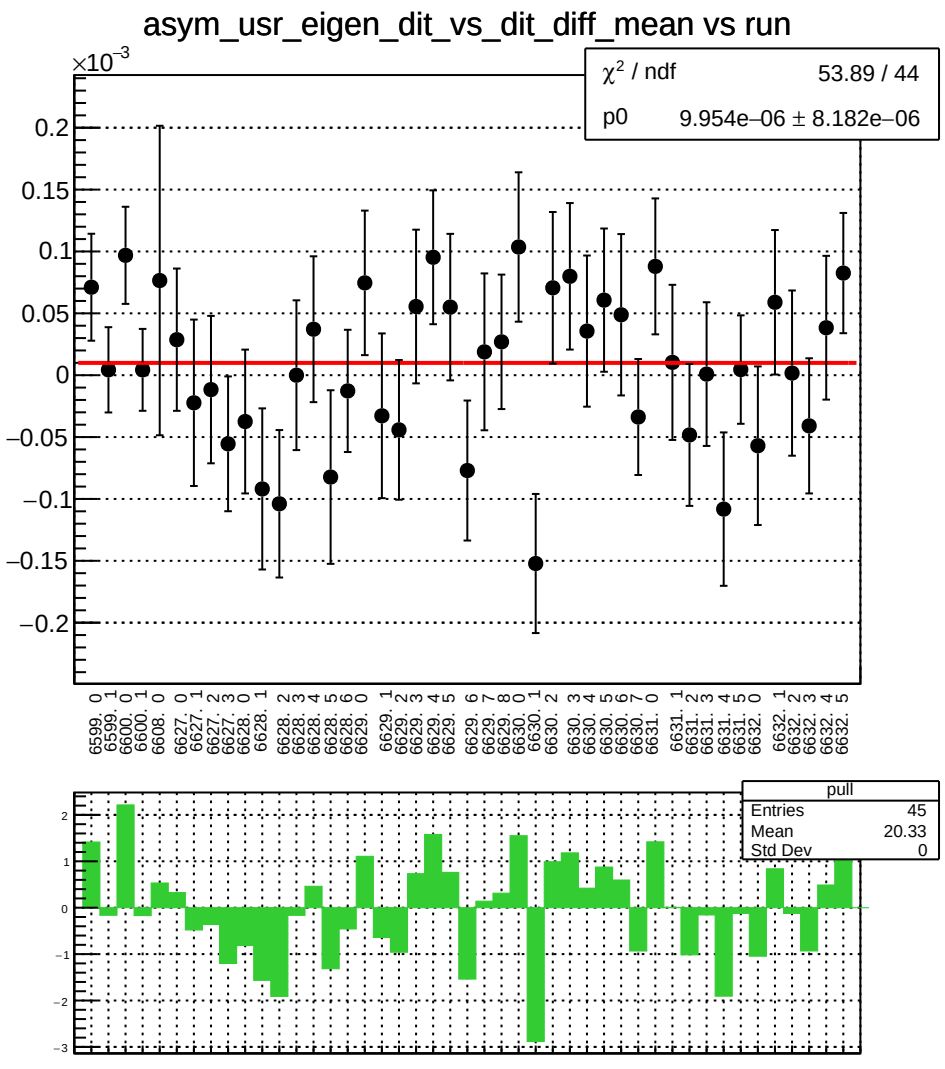
asym_usr_dit_vs_overload_cor_diff_mean vs run

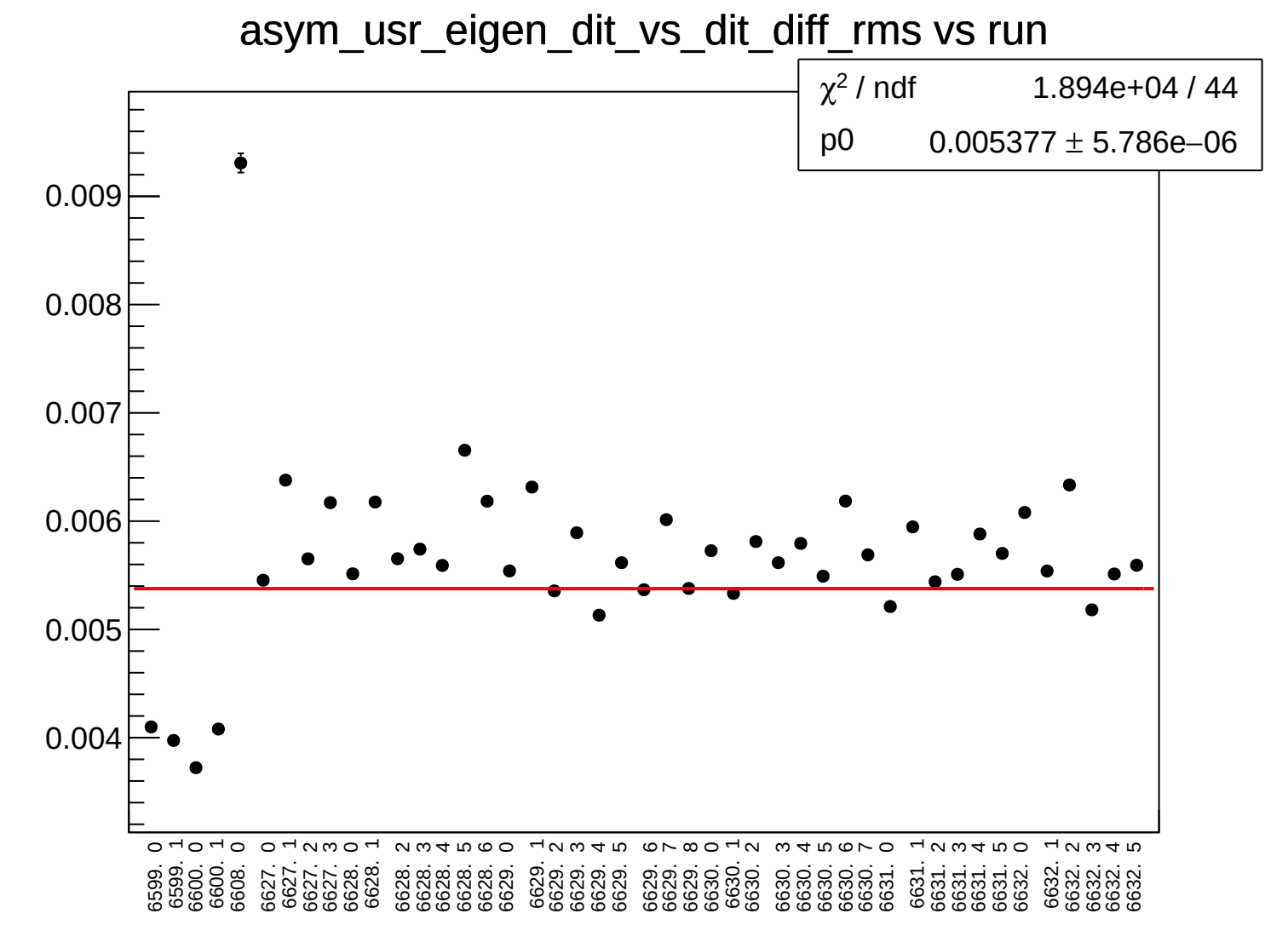


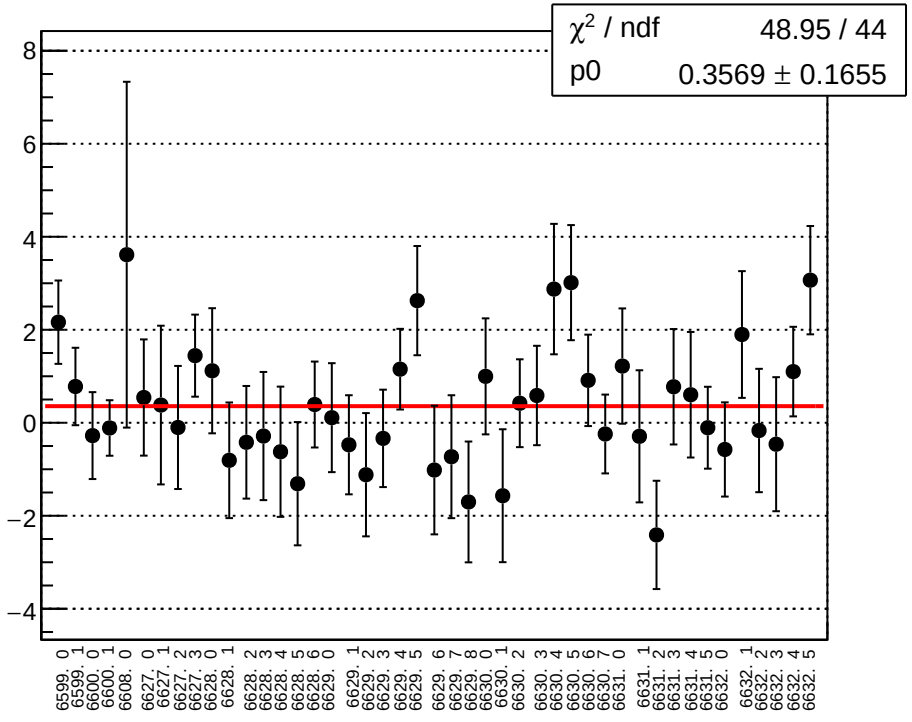



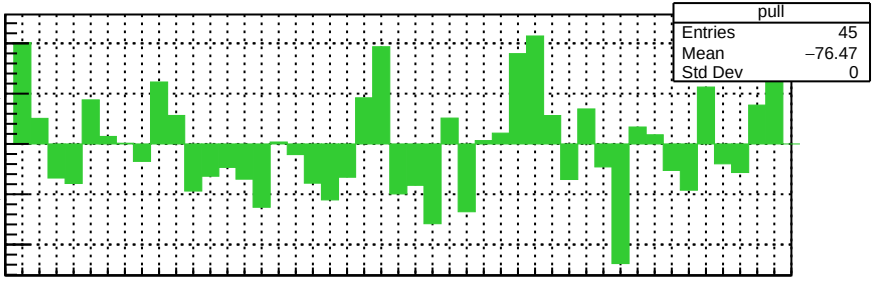

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.791e+04 / 44
p0 134.8 ± 0.145
300
250
200
150
100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

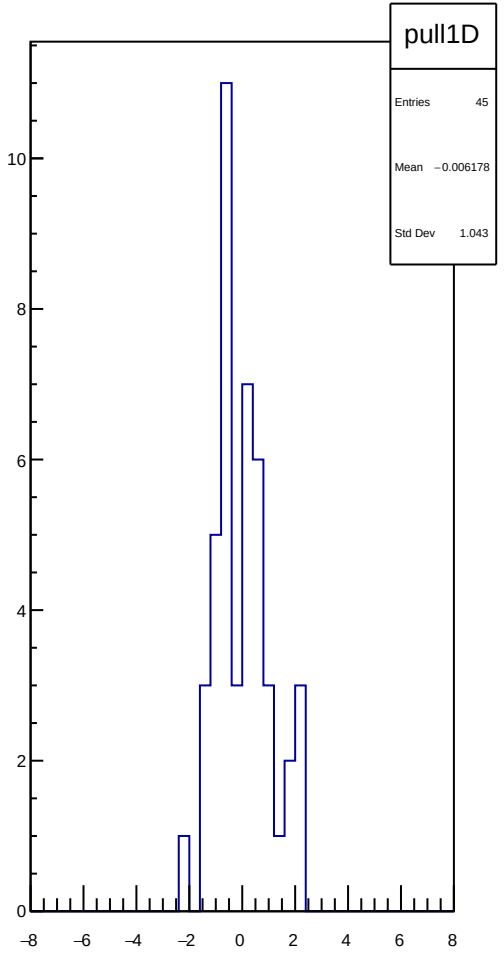

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 53.89 / 44
p0 9.954e−06 ± 8.182e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 20.33
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.03141
Std Dev 1.094
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

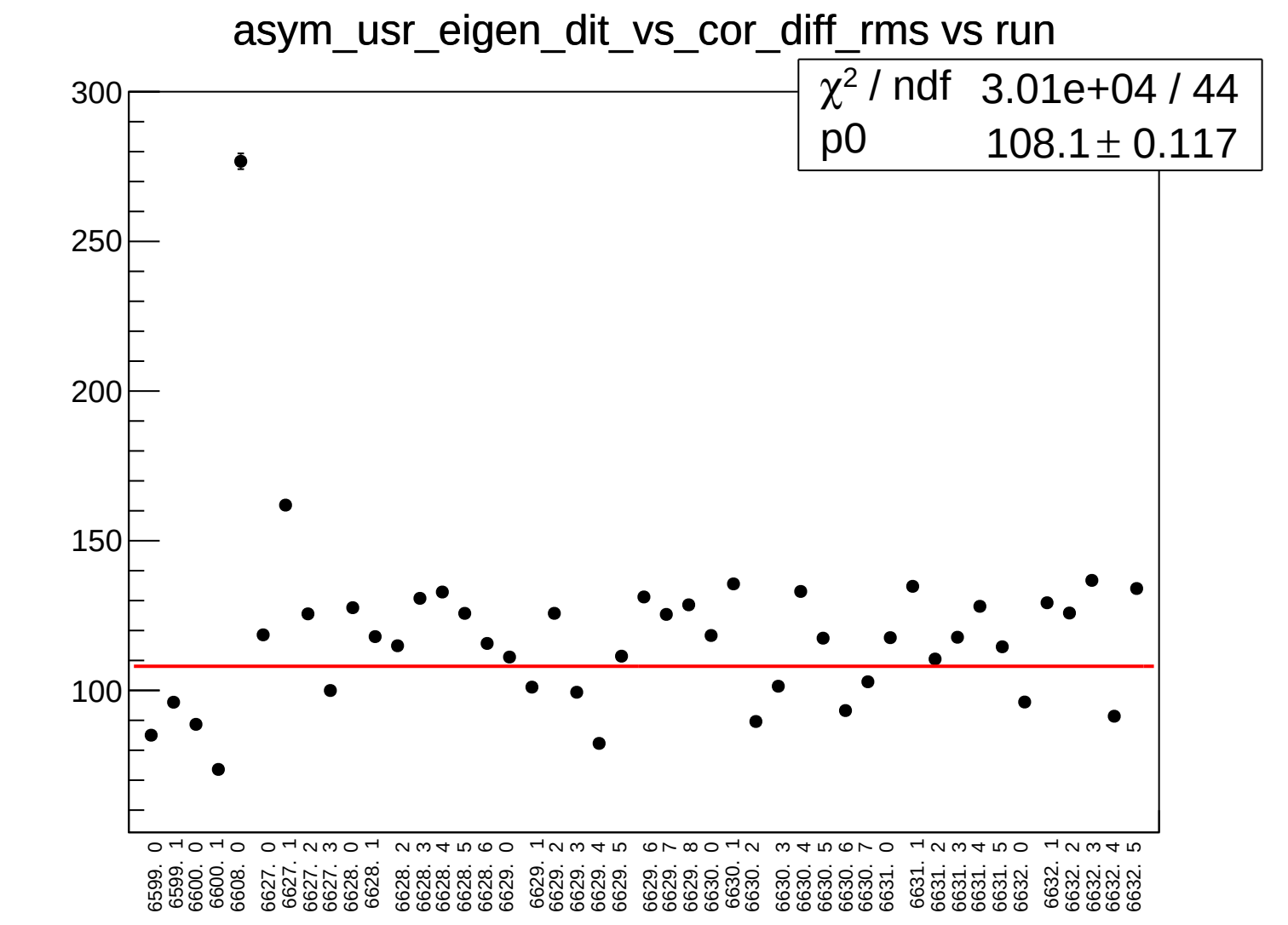

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.894e+04 / 44
p0 0.005377 ± 5.786e−06
0.009
0.008
0.007
0.006
0.005
0.004
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

asym_usr_eigen_dit_vs_cor_diff_mean vs run

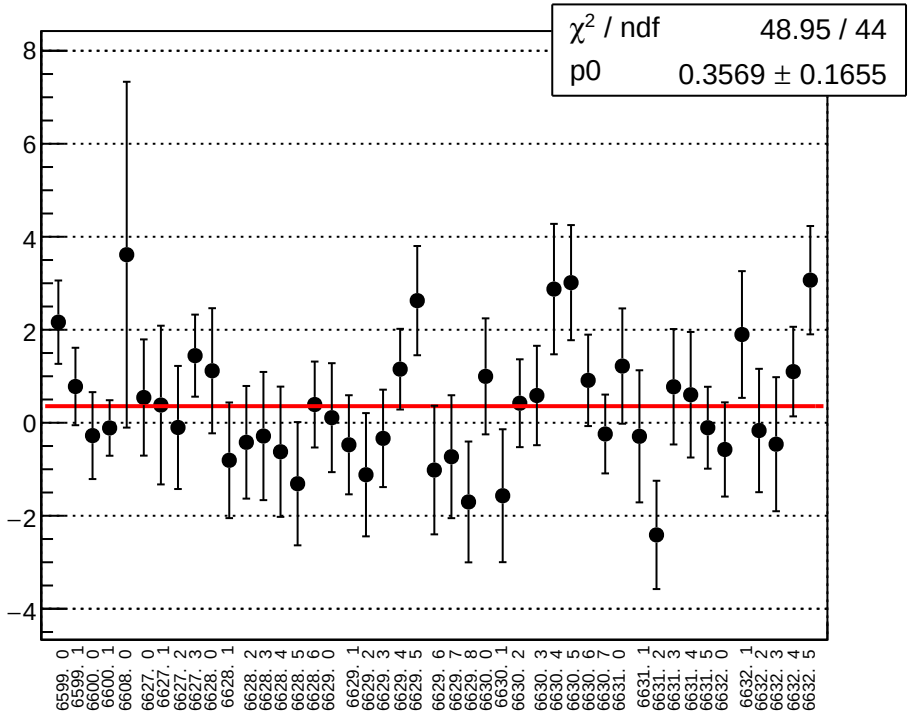


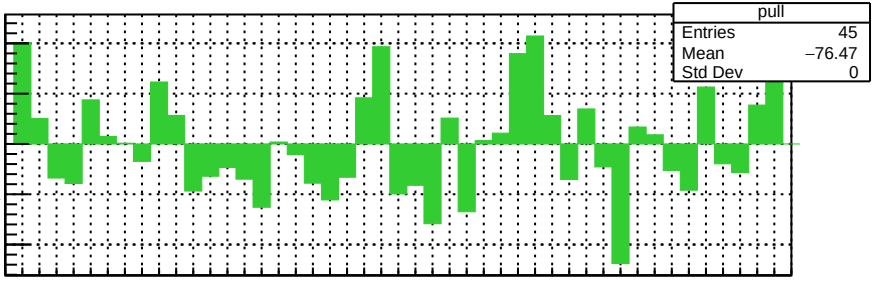



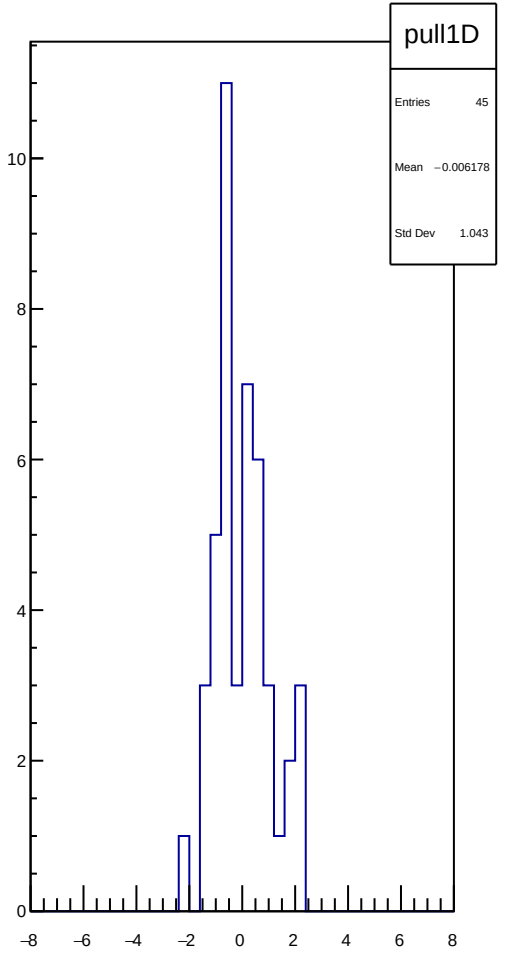



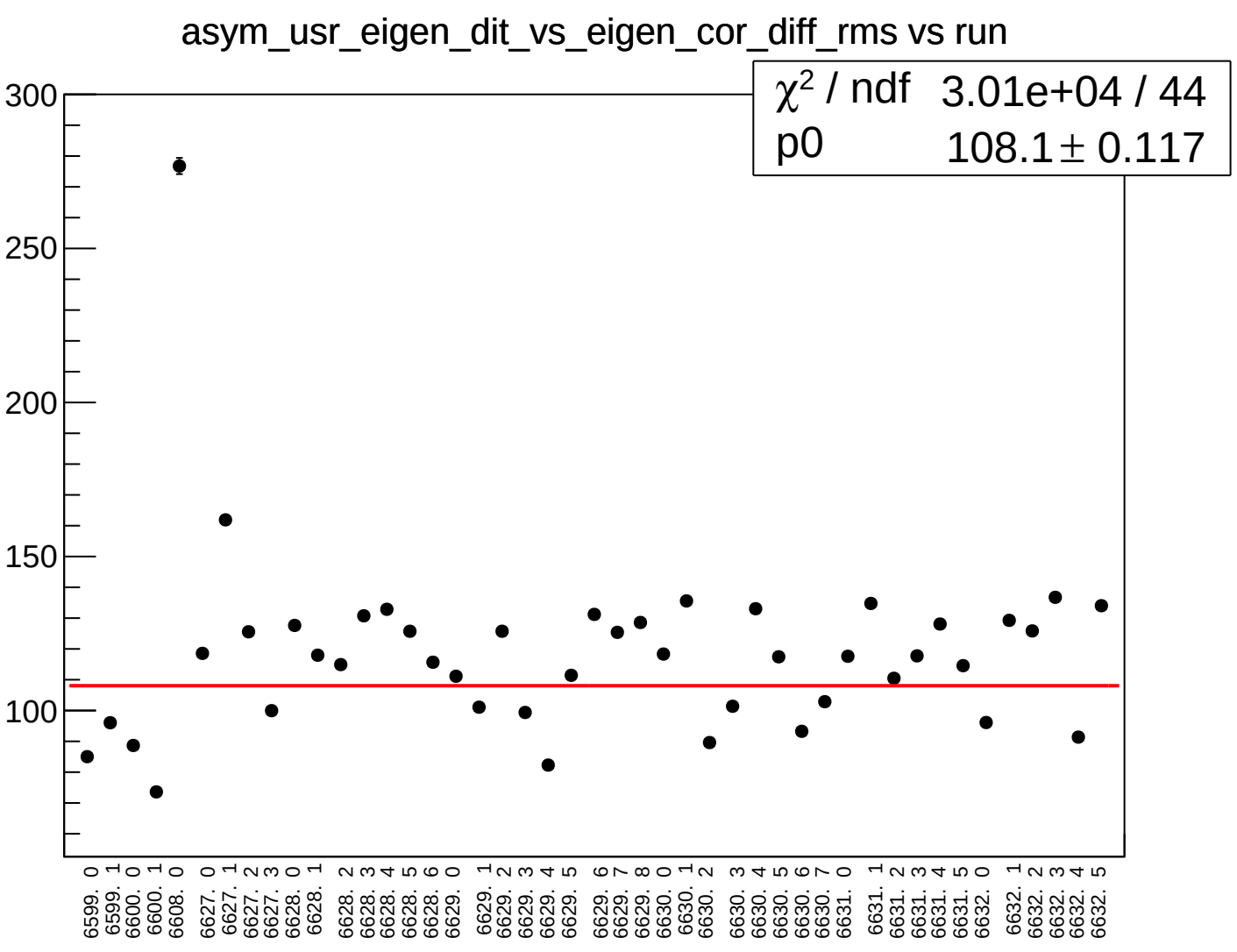

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.01e+04 / 44
p0 108.1 ± 0.117
300
250
200
150
100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run




asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.01e+04 / 44
p0 108.1 ± 0.117
300
250
200
150
100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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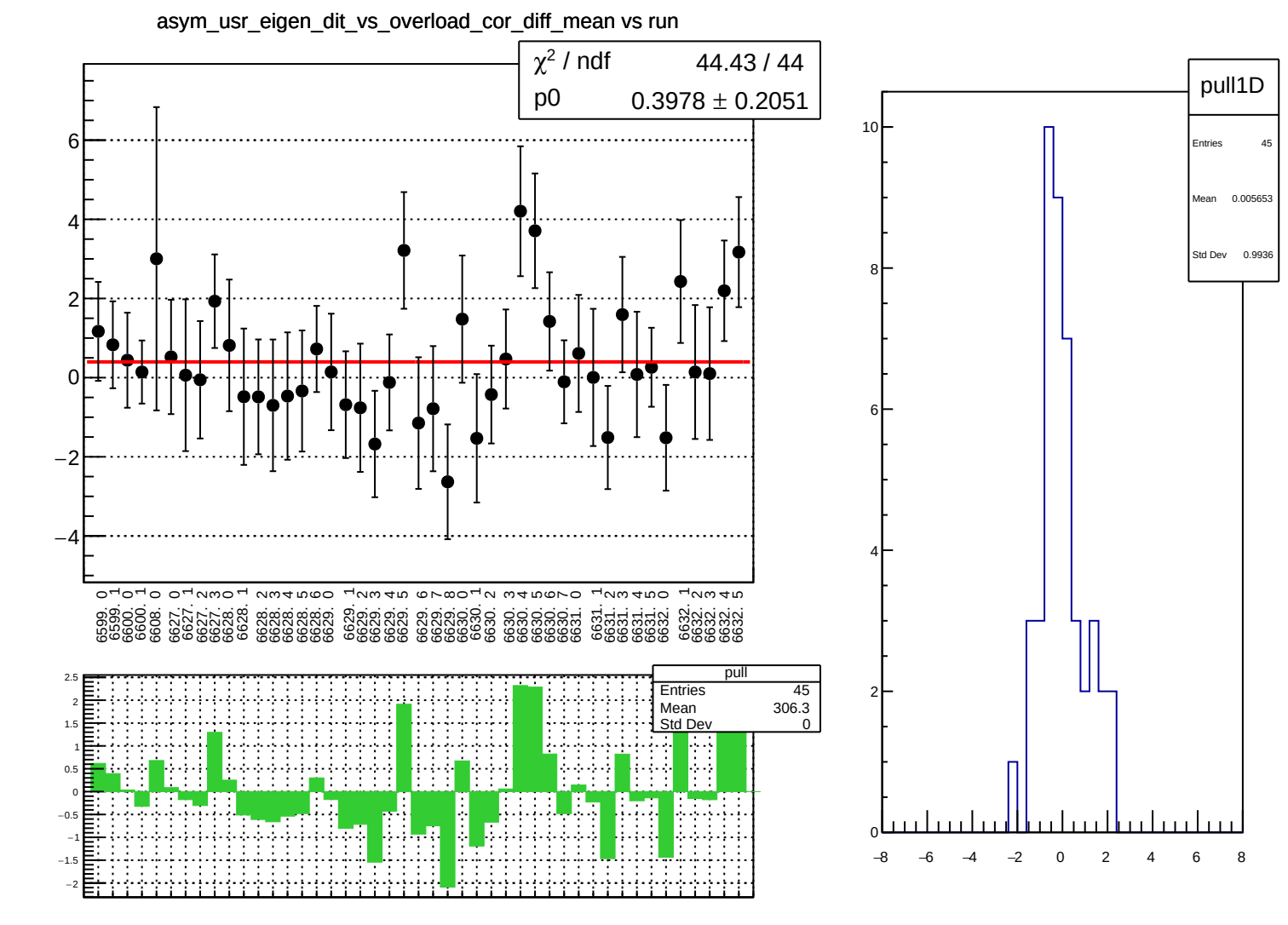
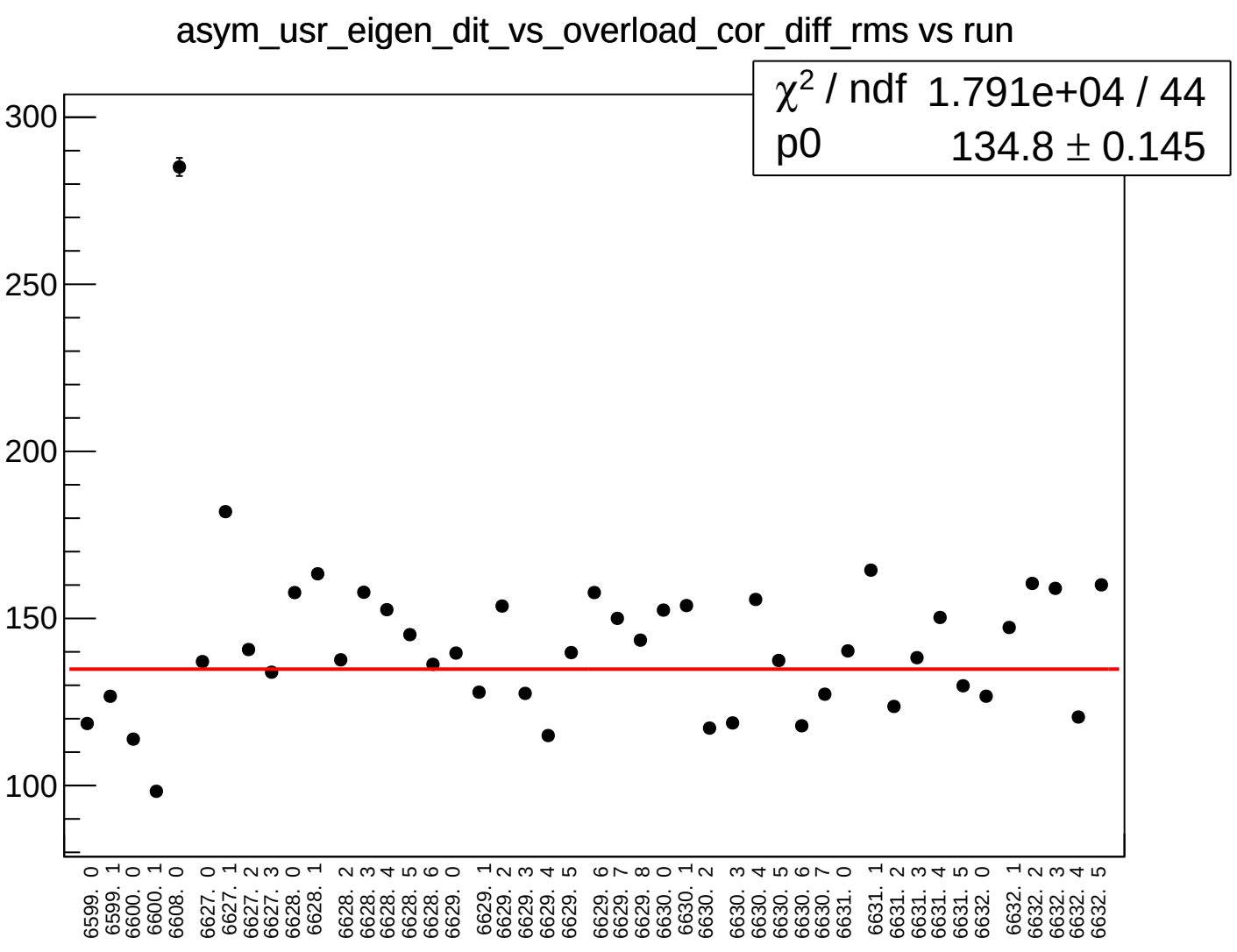
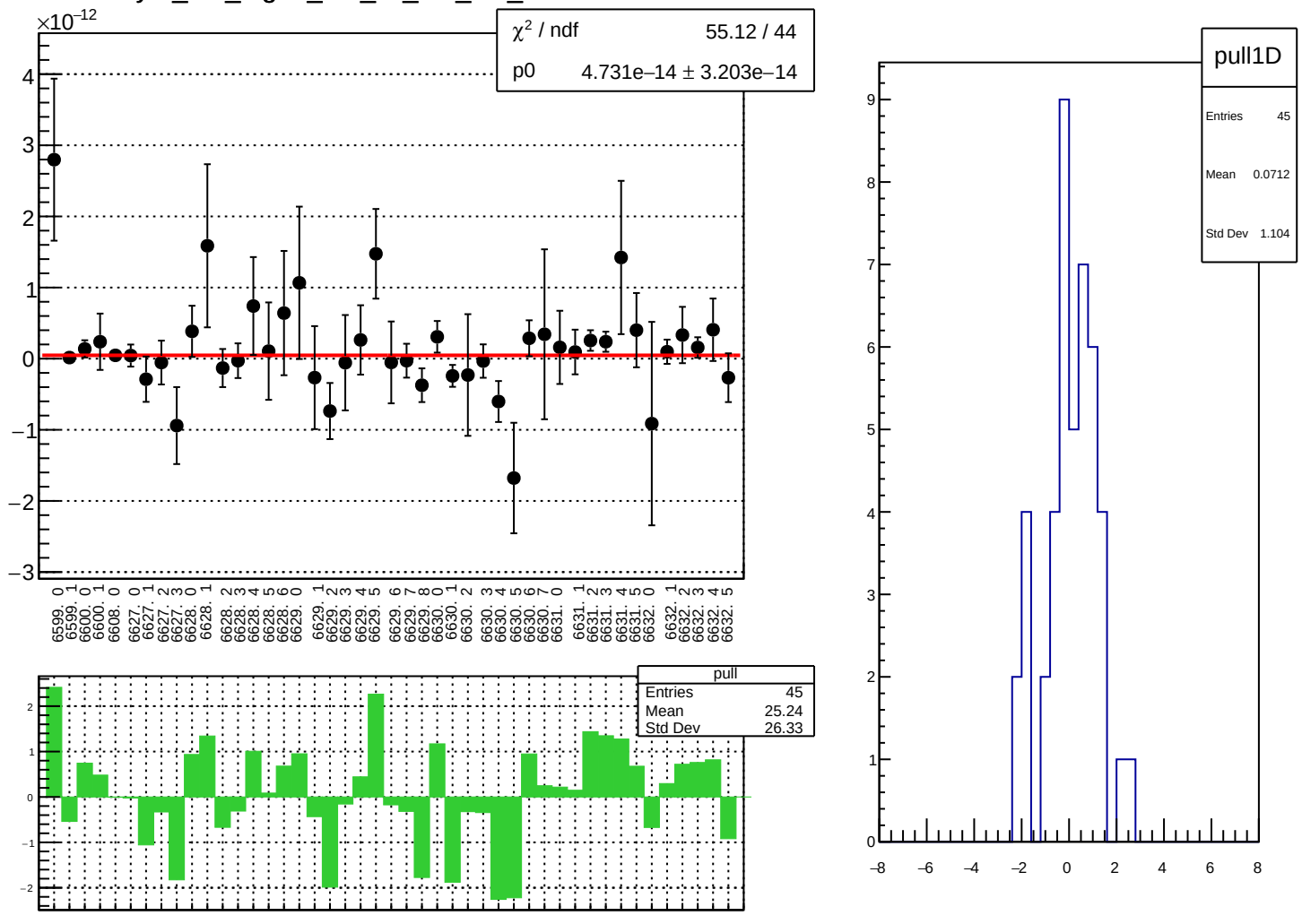
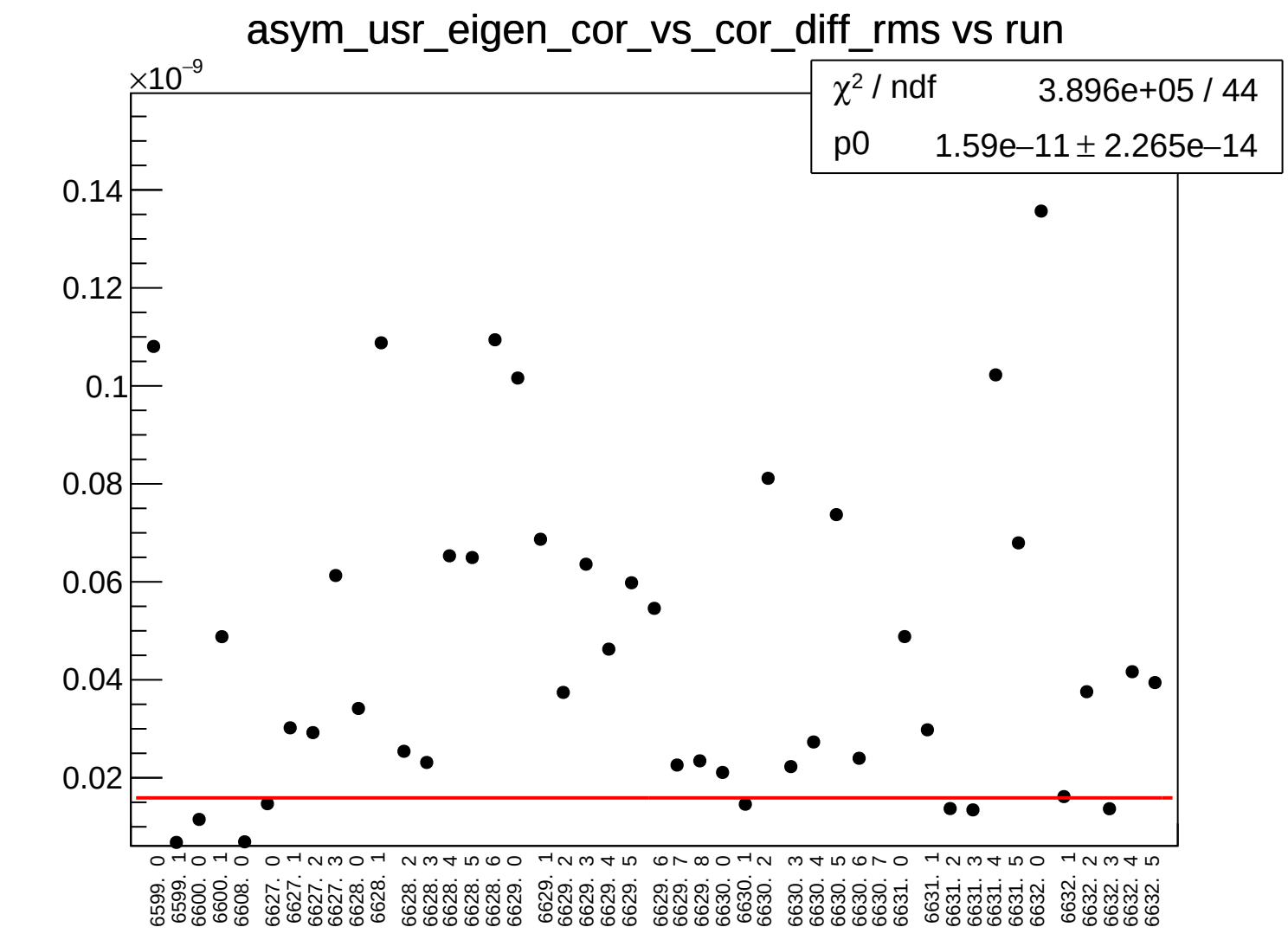
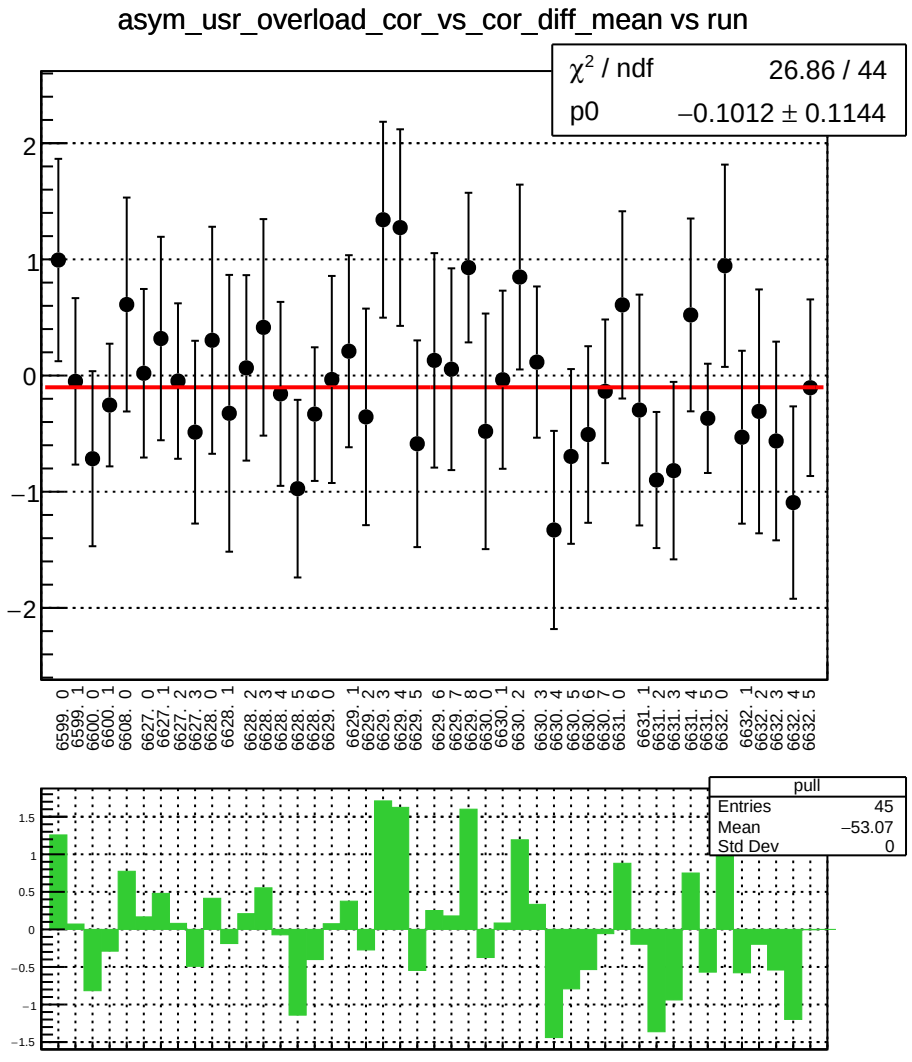
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

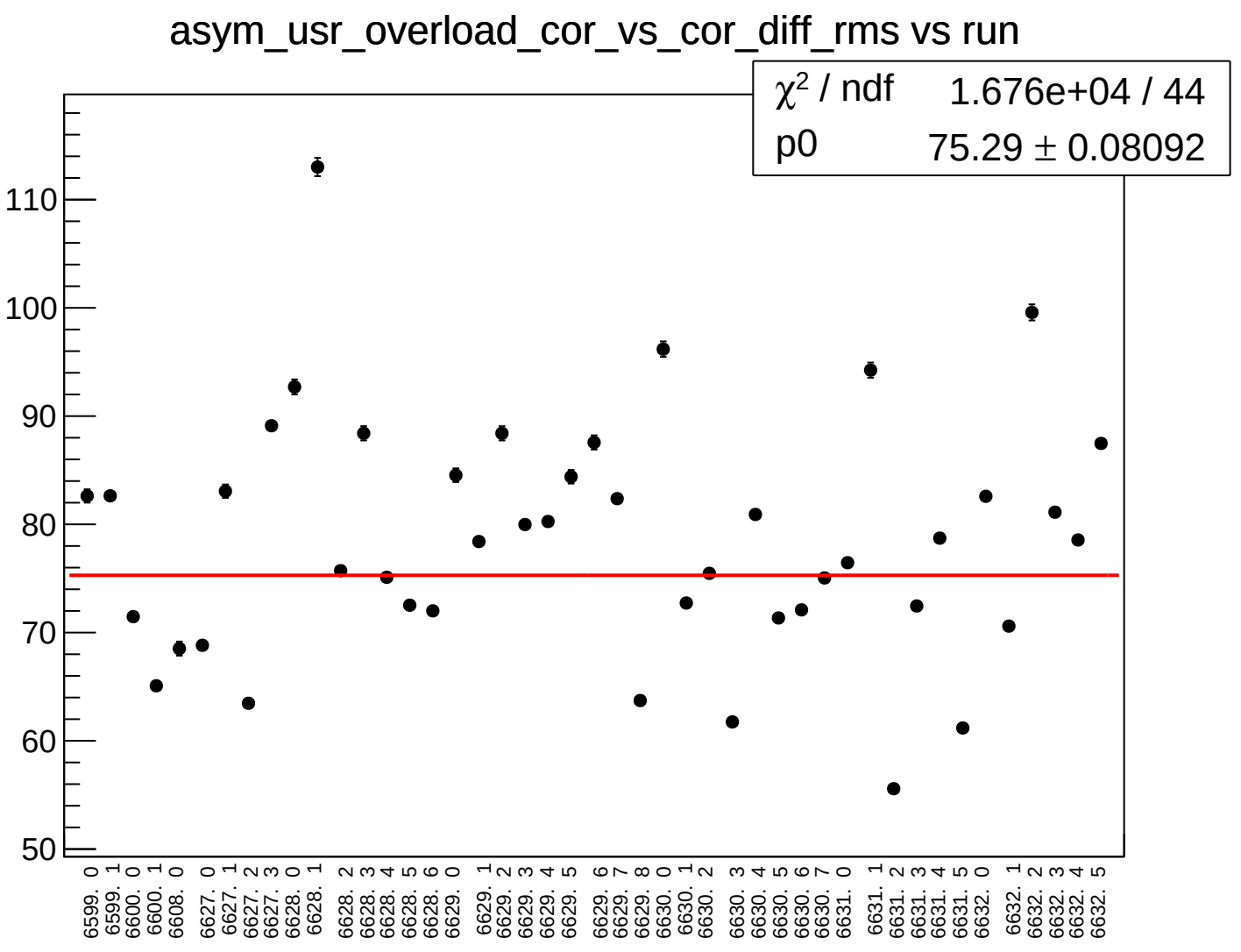

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 44.43 / 44
p0 0.3978 ± 0.2051
pull
Entries 45
Mean 306.3
Std Dev 0
pull1D
Entries 45
Mean 0.005653
Std Dev 0.9936


asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.791e+04 / 44
p0 134.8 ± 0.145
300
250
200
150
100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

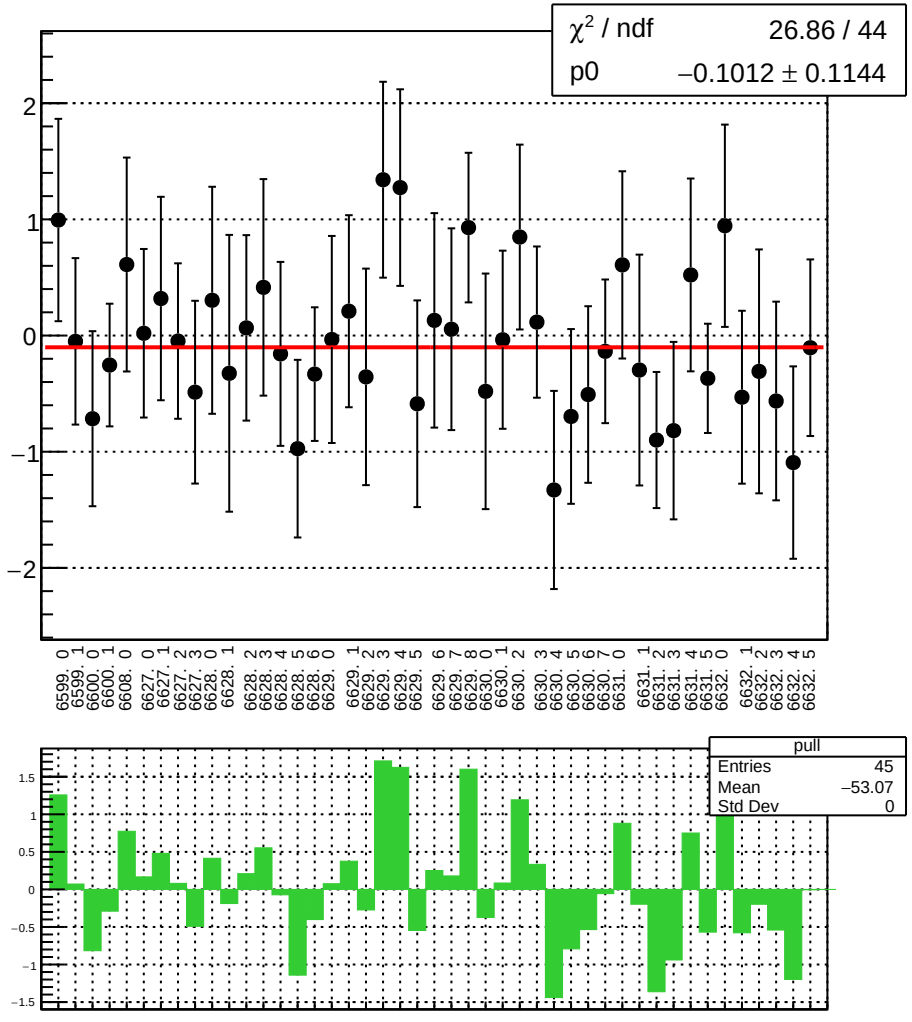

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 55.12 / 44
p0 4.731e−14 ± 3.203e−14
pull
Entries 45
Mean 25.24
Std Dev 26.33
pull1D
Entries 45
Mean 0.0712
Std Dev 1.104

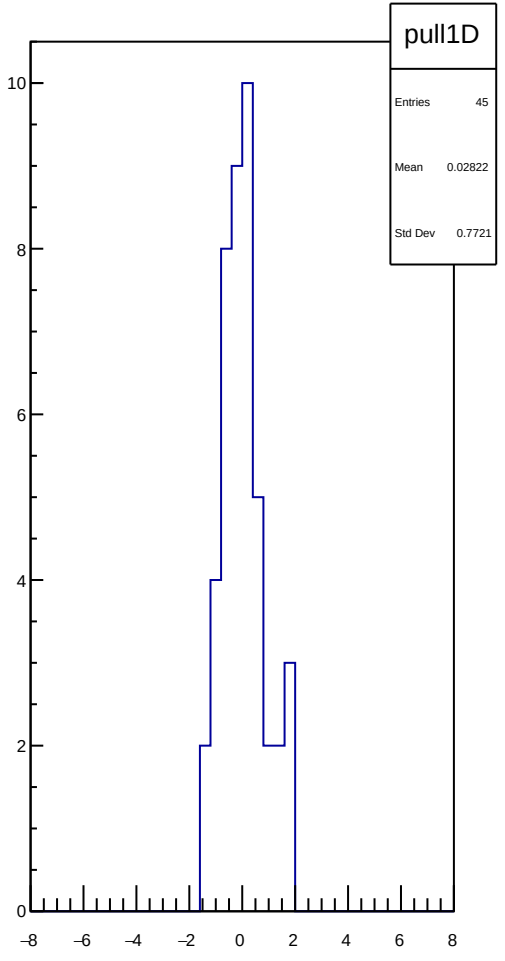

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.896e+05 / 44
p0 1.59e−11 ± 2.265e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

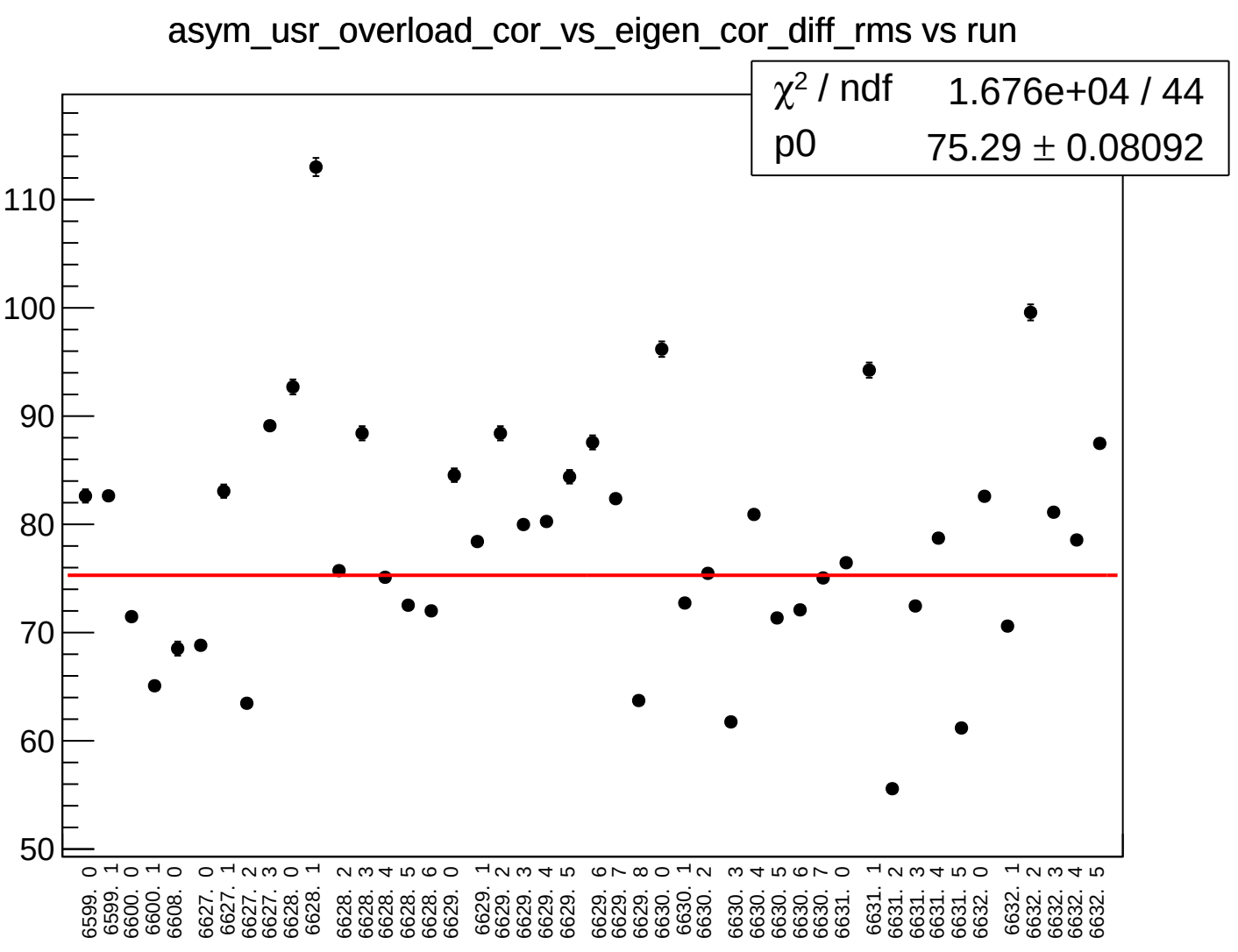

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 26.86 / 44
p0 −0.1012 ± 0.1144
pull
Entries 45
Mean −53.07
Std Dev 0
pull1D
Entries 45
Mean 0.02822
Std Dev 0.7721

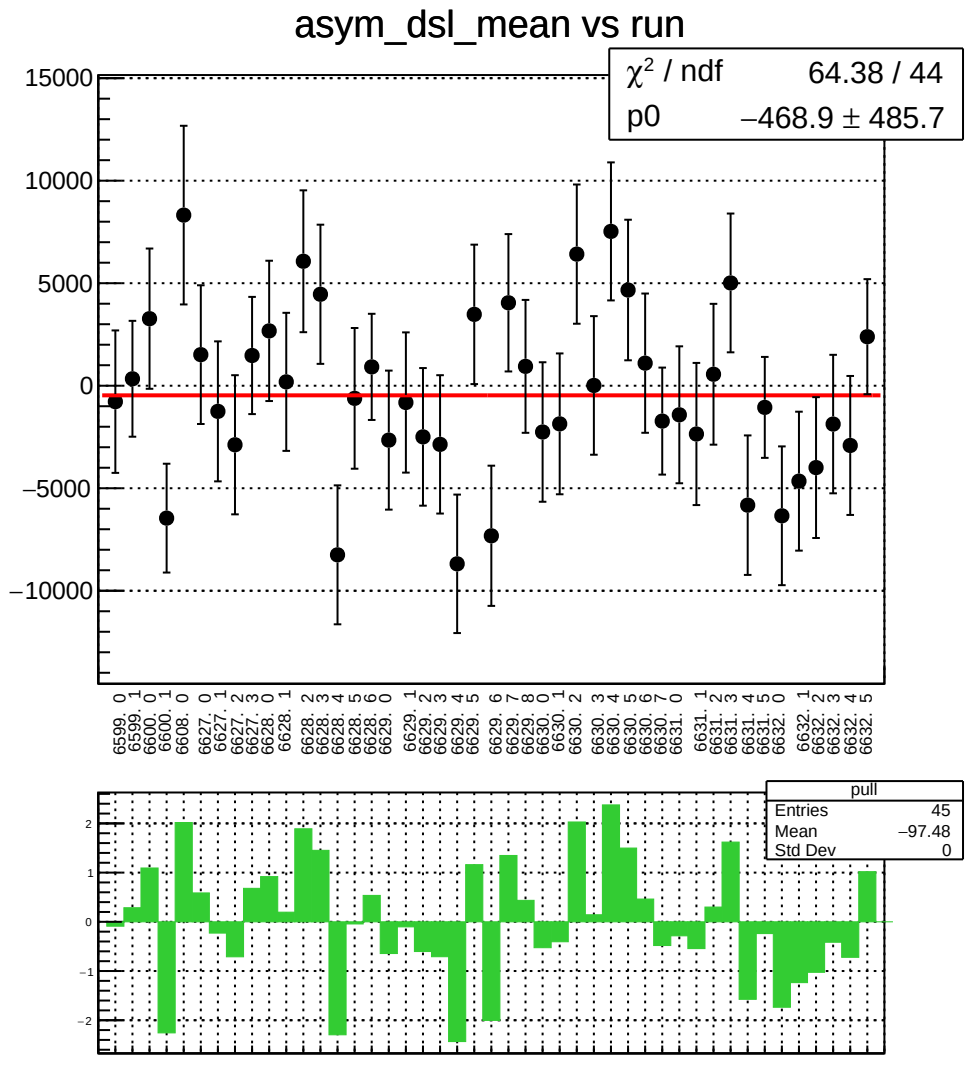

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.676e+04 / 44
p0 75.29 ± 0.08092
110
100
90
80
70
60
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

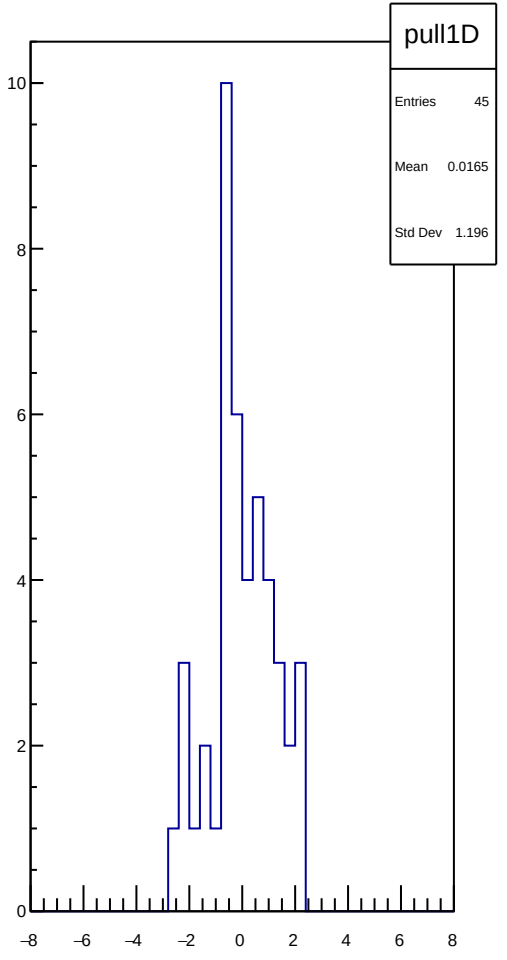
asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run

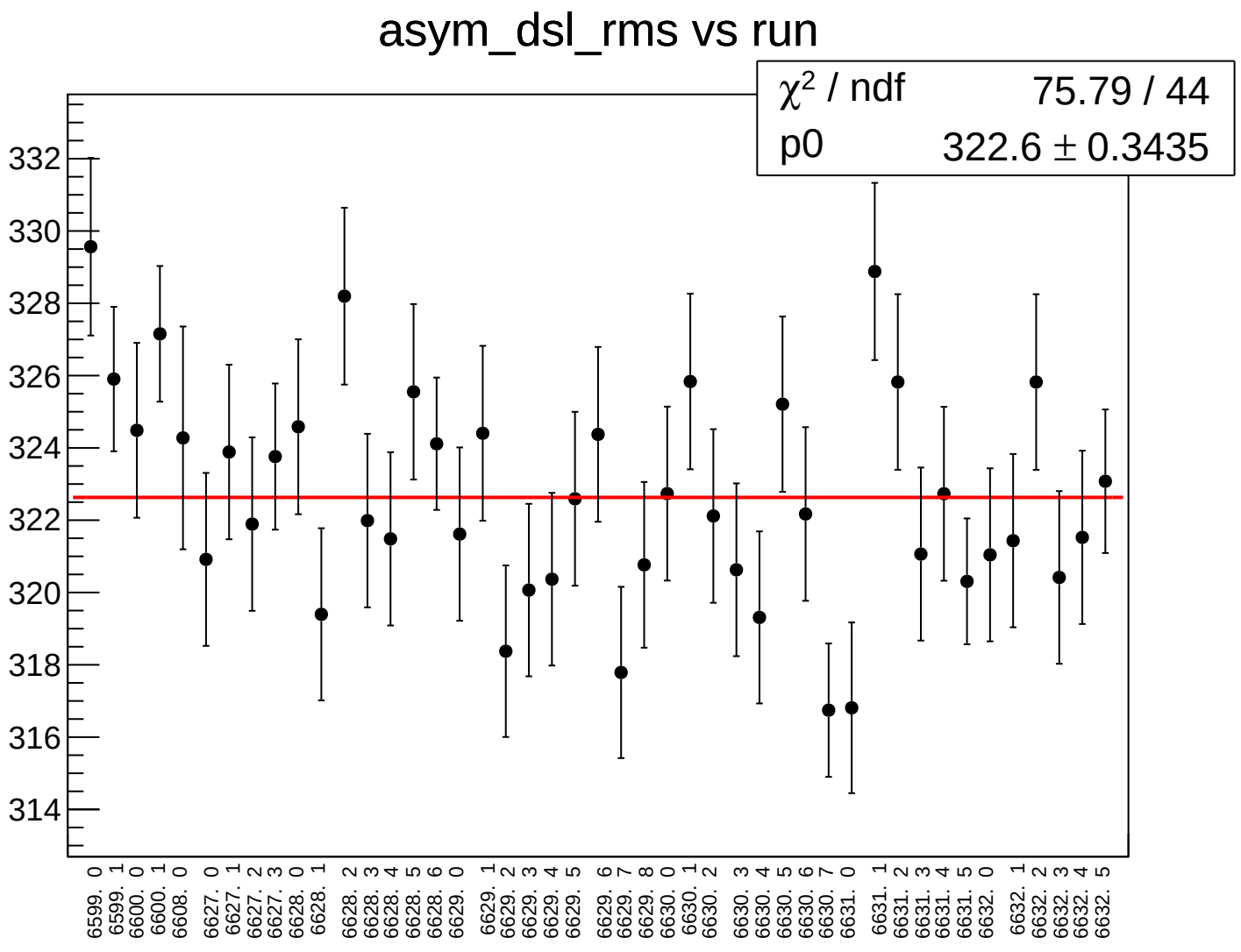


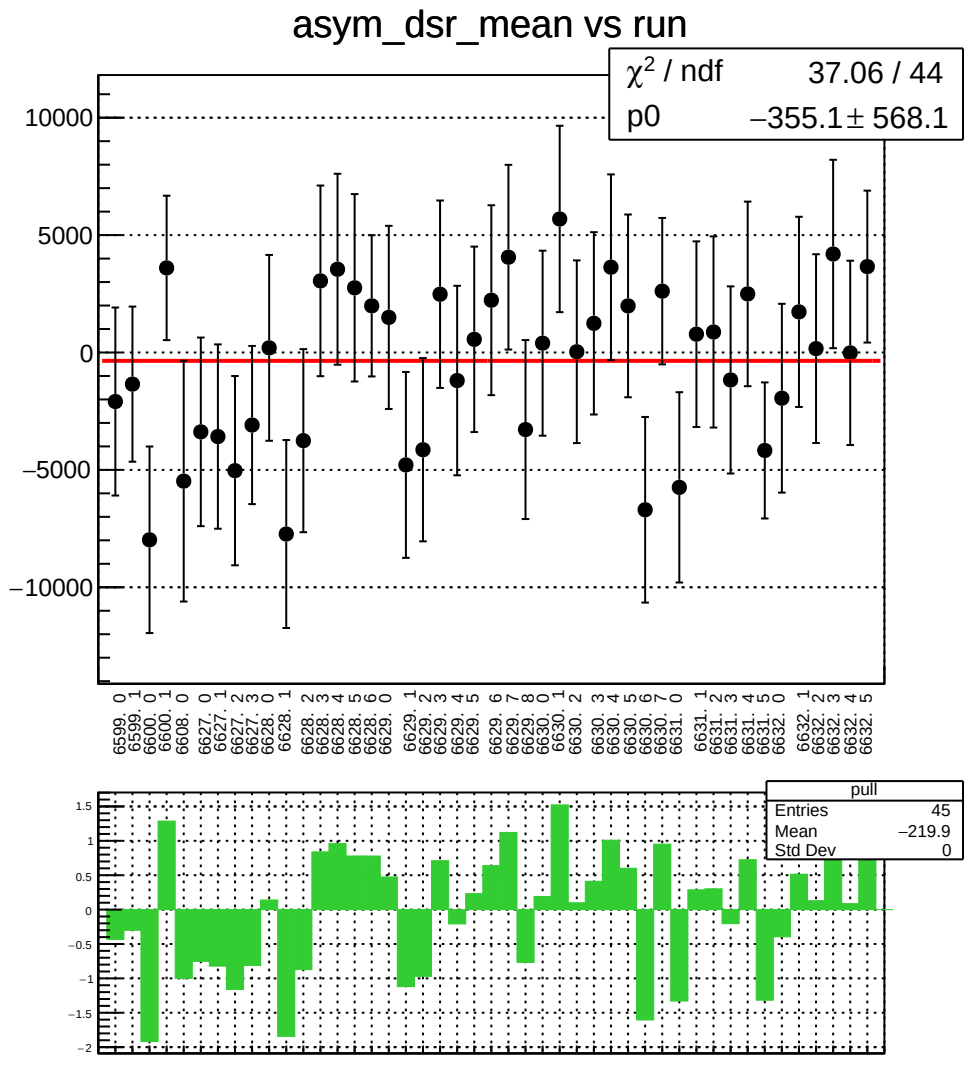



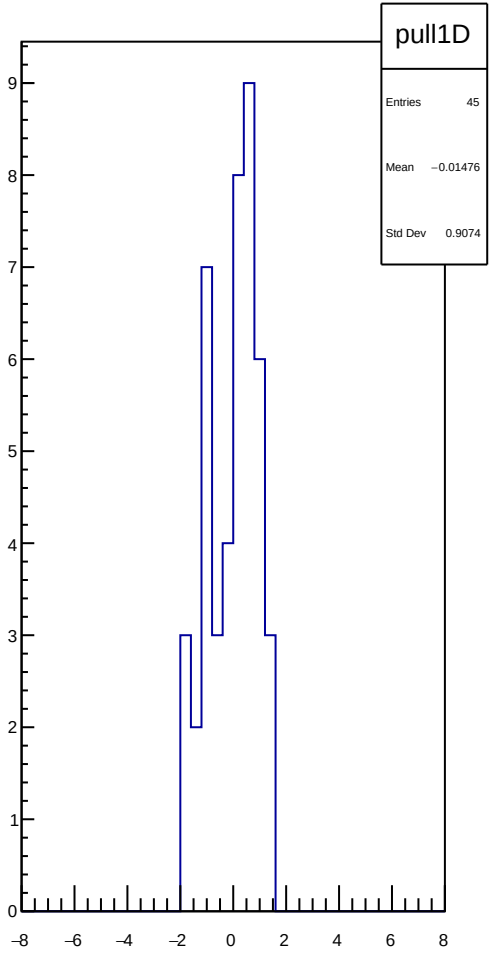

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.676e+04 / 44
p0 75.29 ± 0.08092
110
100
90
80
70
60
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

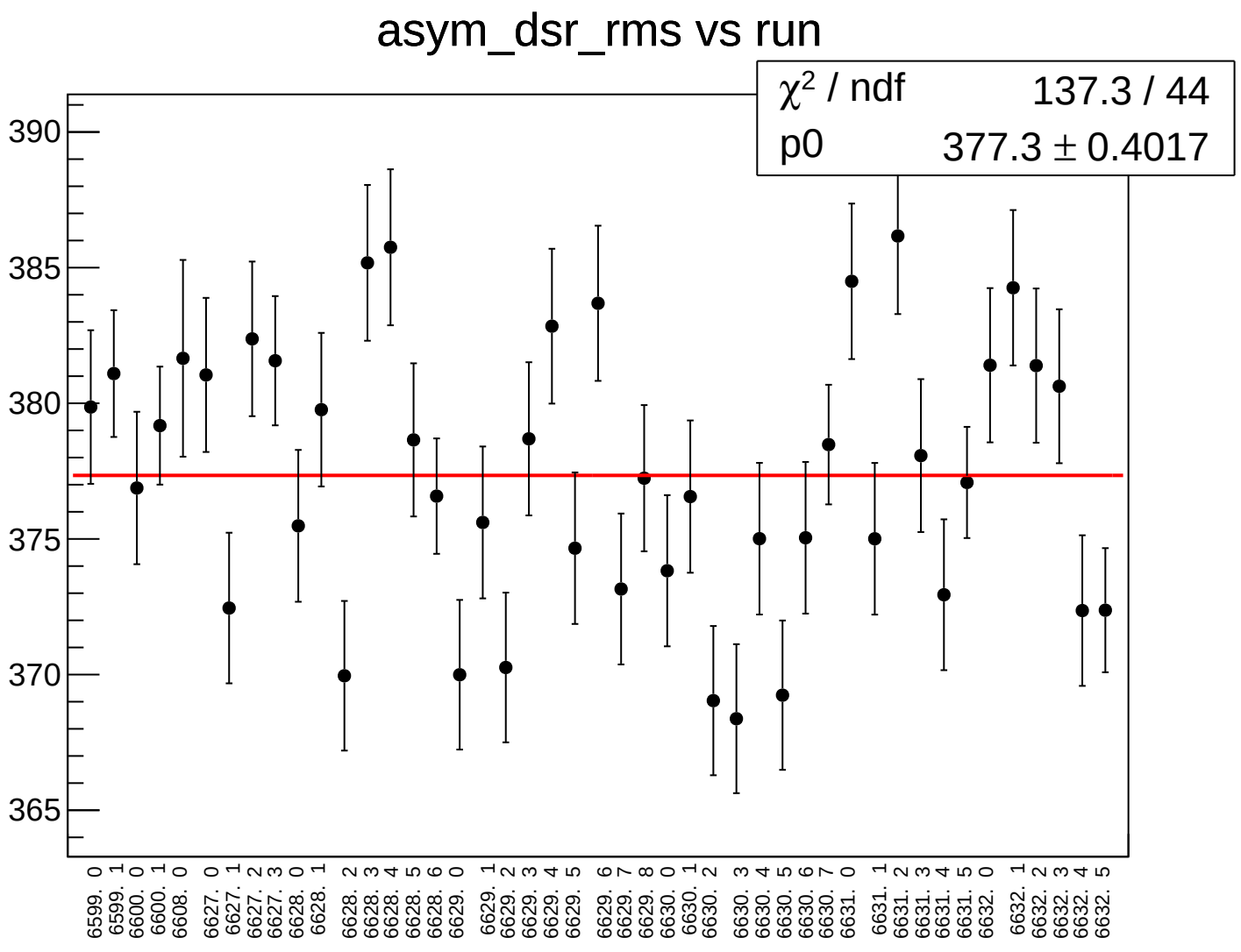

asym_dsl_mean vs run
χ² / ndf 64.38 / 44
p0 −468.9 ± 485.7
15000
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −97.48
Std Dev 0
2
1
0
−1
−2

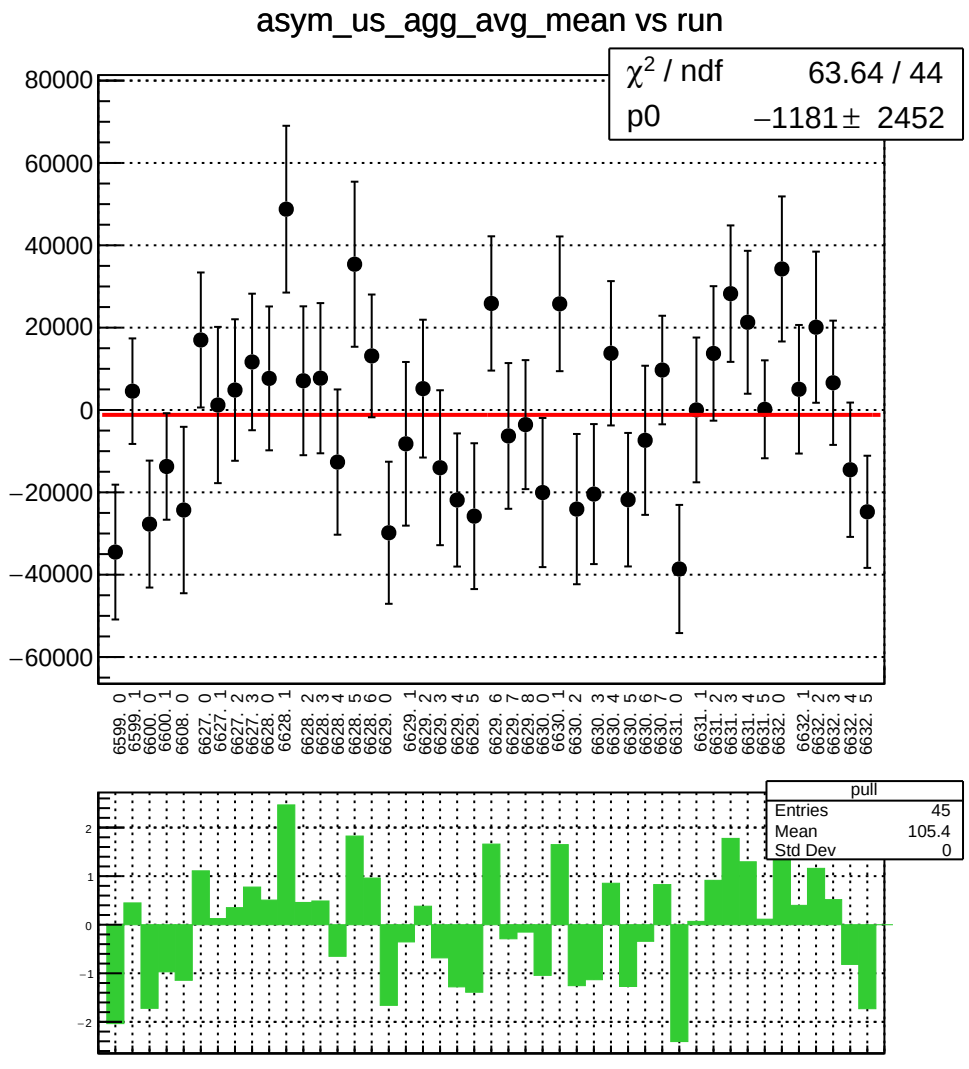

pull1D
Entries 45
Mean 0.0165
Std Dev 1.196
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

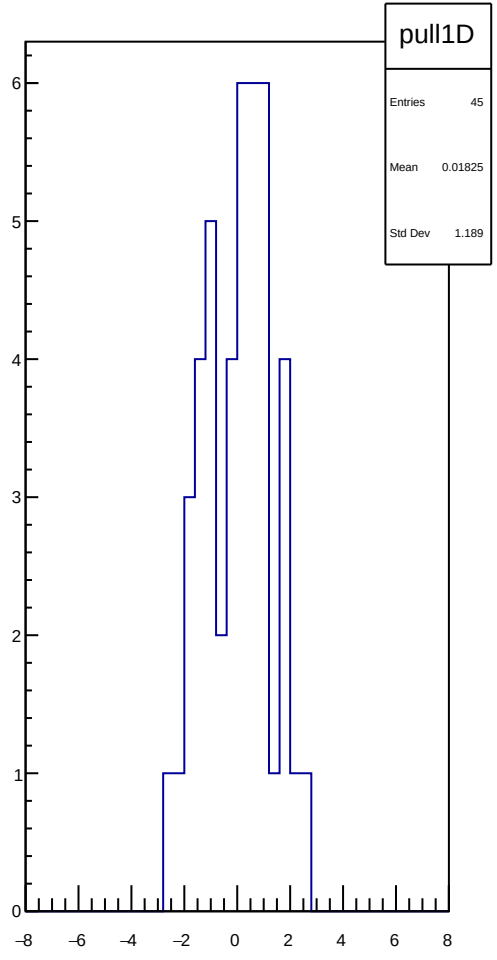

asym_dsl_rms vs run
χ² / ndf 75.79 / 44
p0 322.6 ± 0.3435
332
330
328
326
324
322
320
318
316
314
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

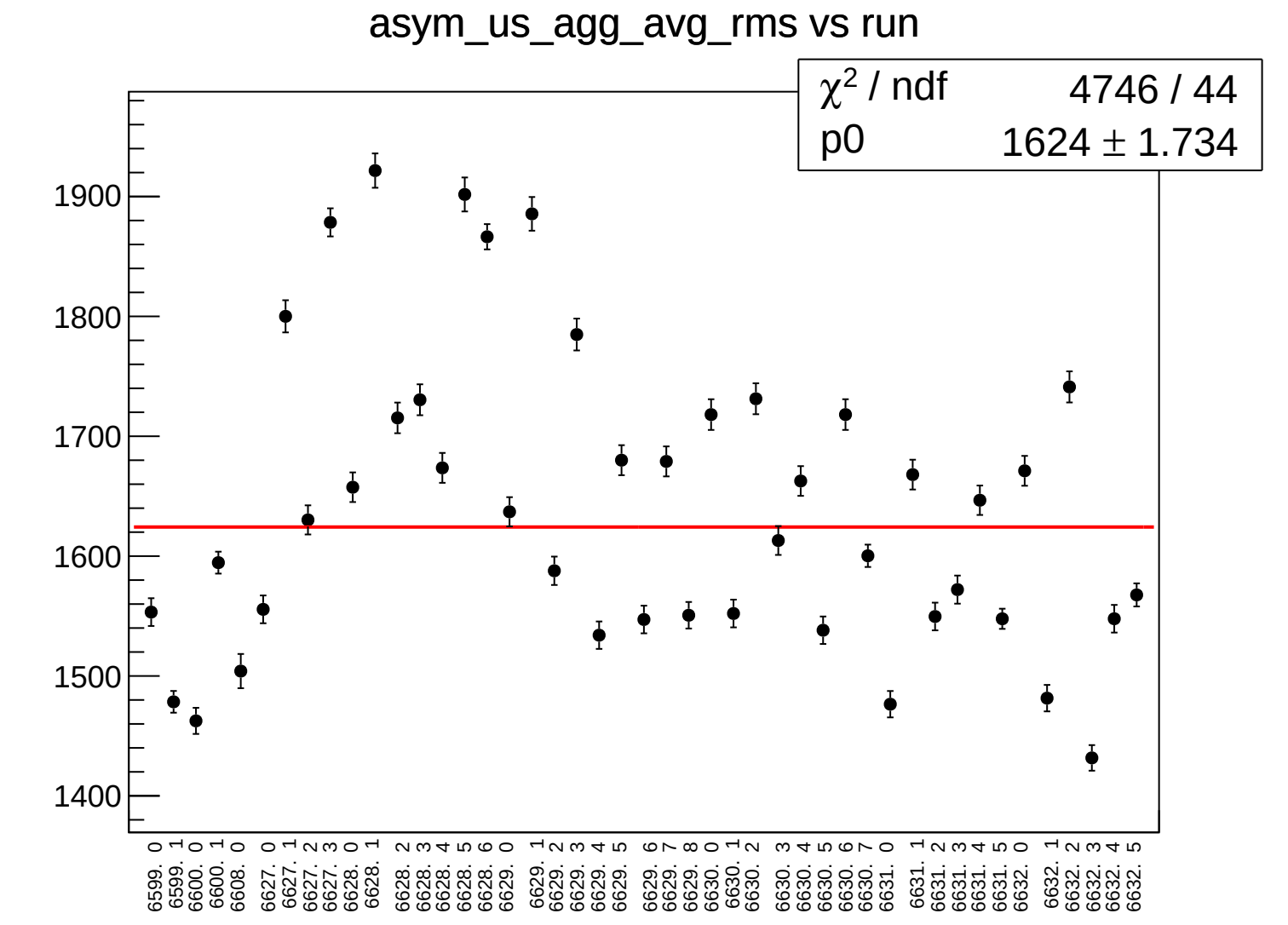

asym_dsr_mean vs run
$\chi^2$ / ndf 37.06 / 44
p0 −355.1 ± 568.1
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −219.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

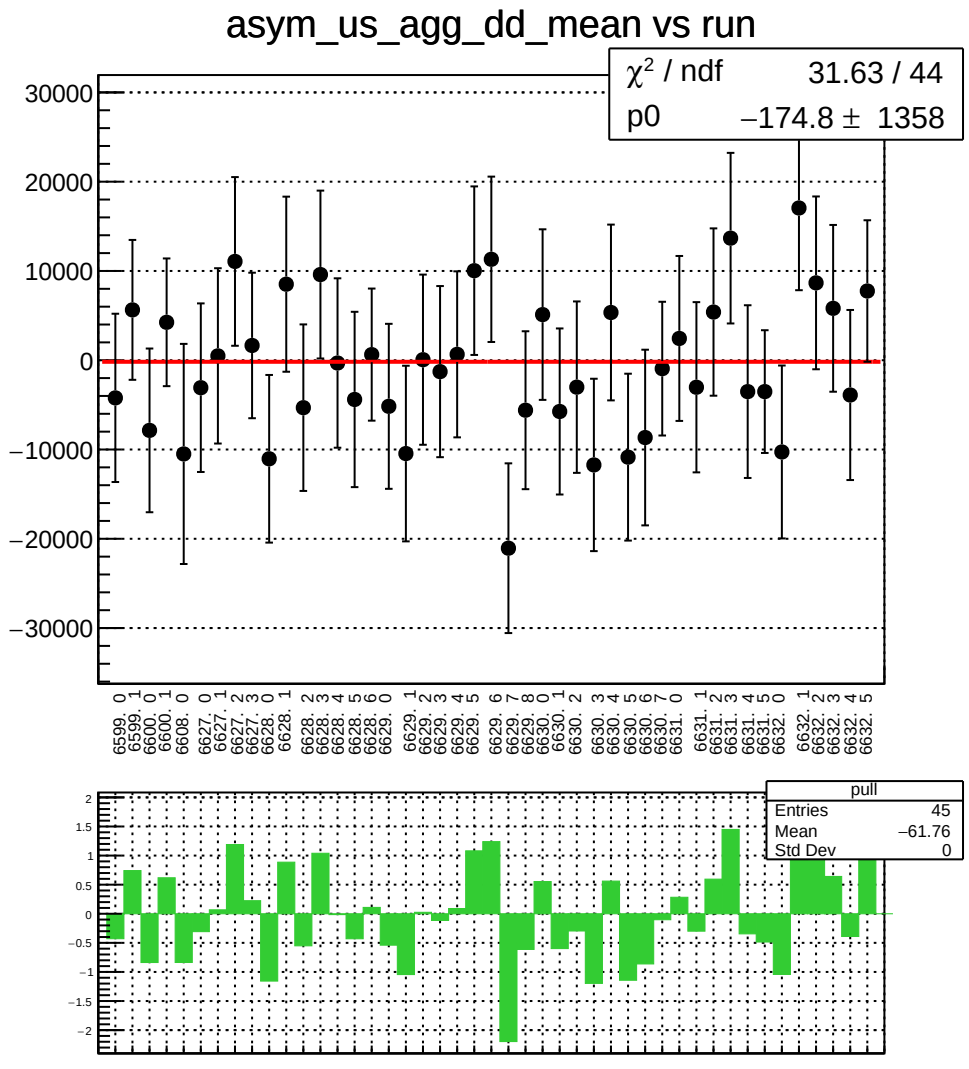

pull1D
Entries 45
Mean −0.01476
Std Dev 0.9074
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

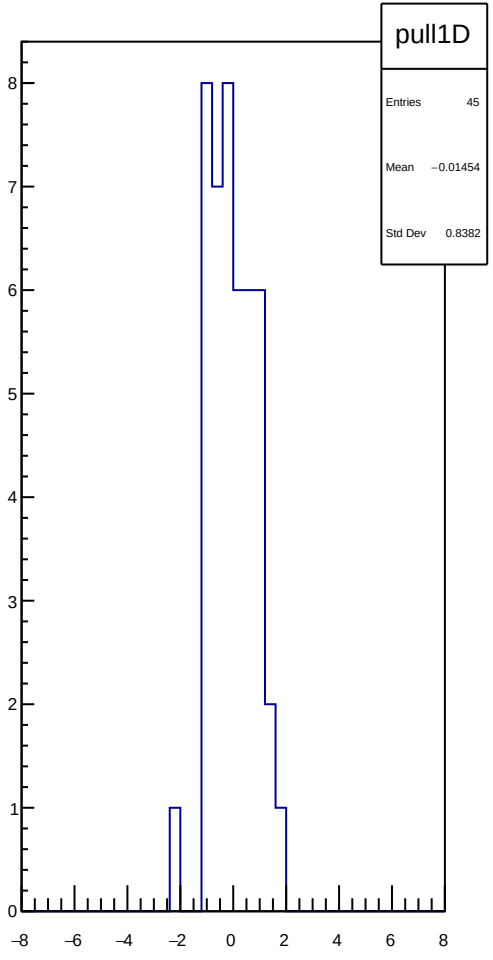

asym_dsr_rms vs run
χ² / ndf 137.3 / 44
p0 377.3 ± 0.4017
390
385
380
375
370
365
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

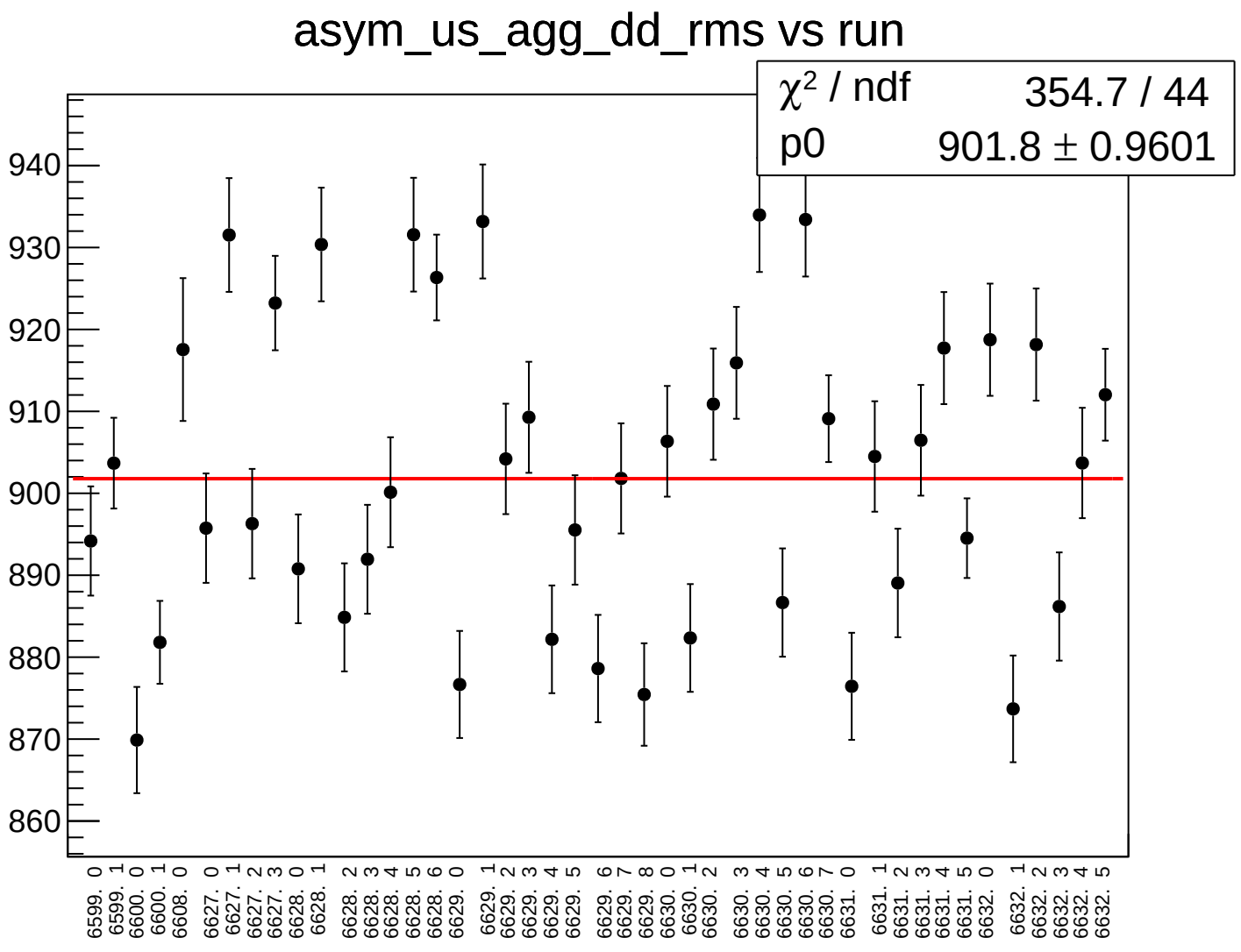

asym_us_agg_avg_mean vs run
χ² / ndf 63.64 / 44
p0 −1181 ± 2452
80000
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 105.4
Std Dev 0
2
1
0
−1
−2

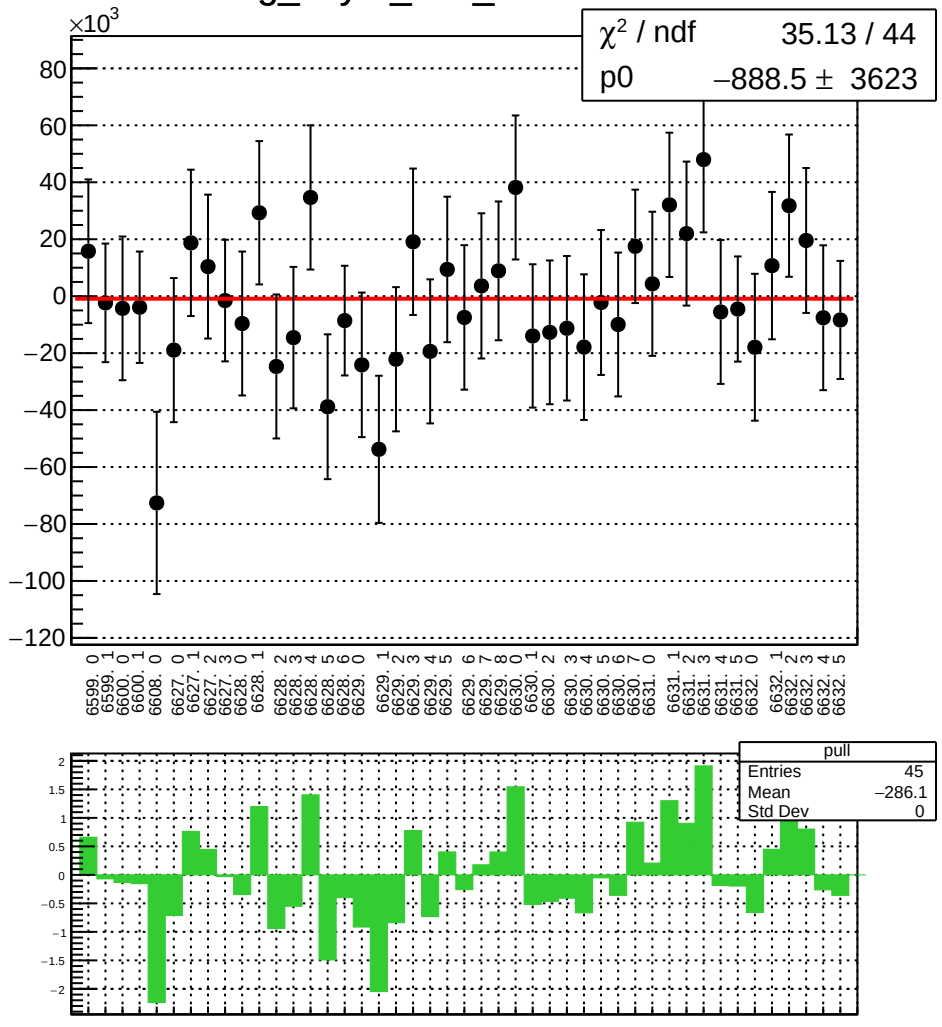

pull1D
Entries 45
Mean 0.01825
Std Dev 1.189
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

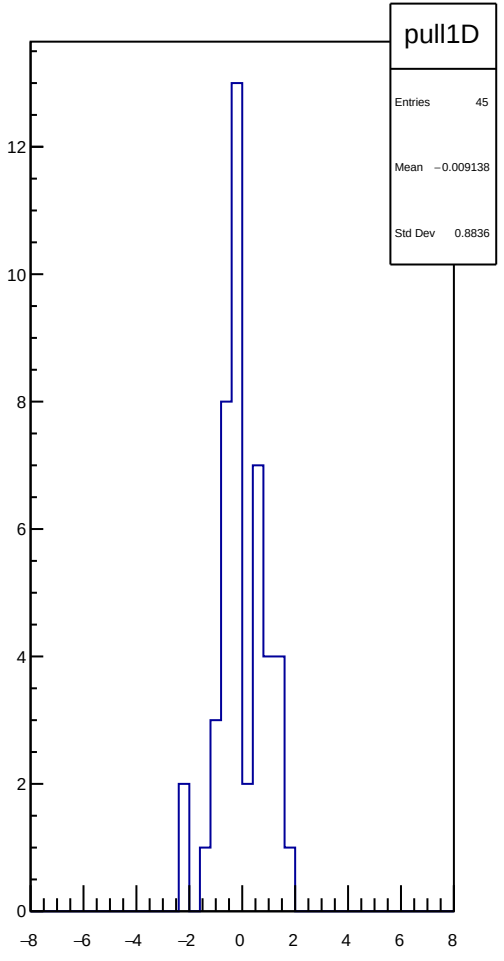

asym_us_agg_avg_rms vs run
χ² / ndf 4746 / 44
p0 1624 ± 1.734
1900
1800
1700
1600
1500
1400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

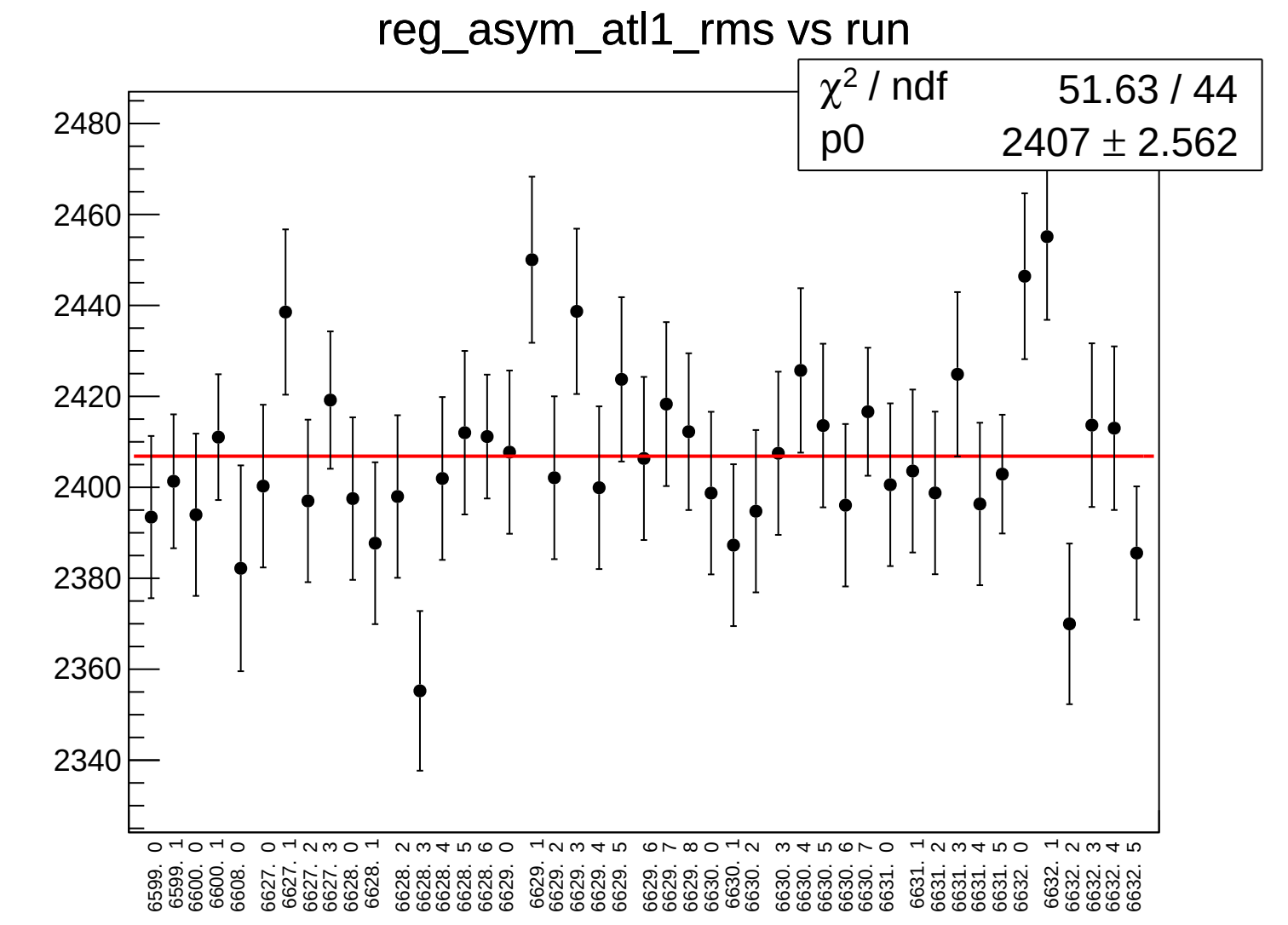

asym_us_agg_dd_mean vs run
χ² / ndf 31.63 / 44
p0 −174.8 ± 1358
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −61.76
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

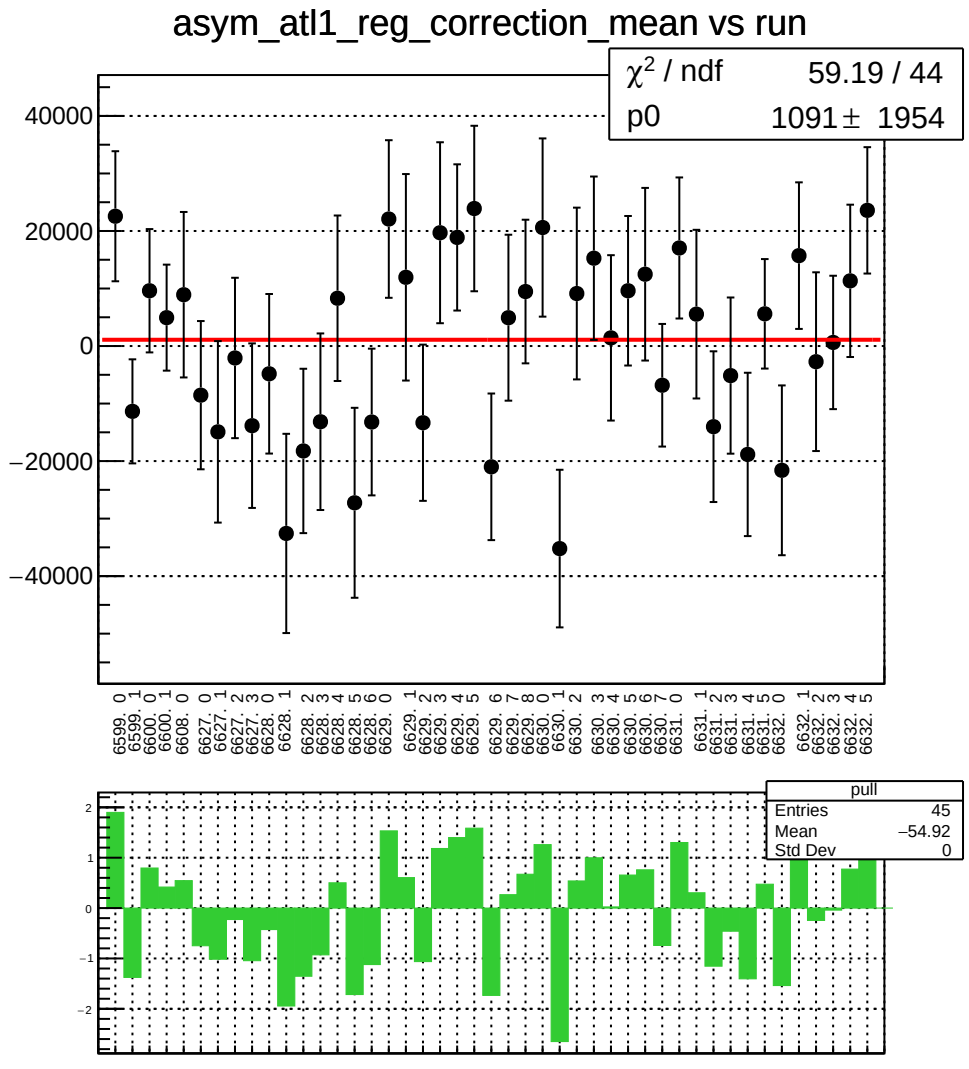

pull1D
Entries 45
Mean −0.01454
Std Dev 0.8382
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

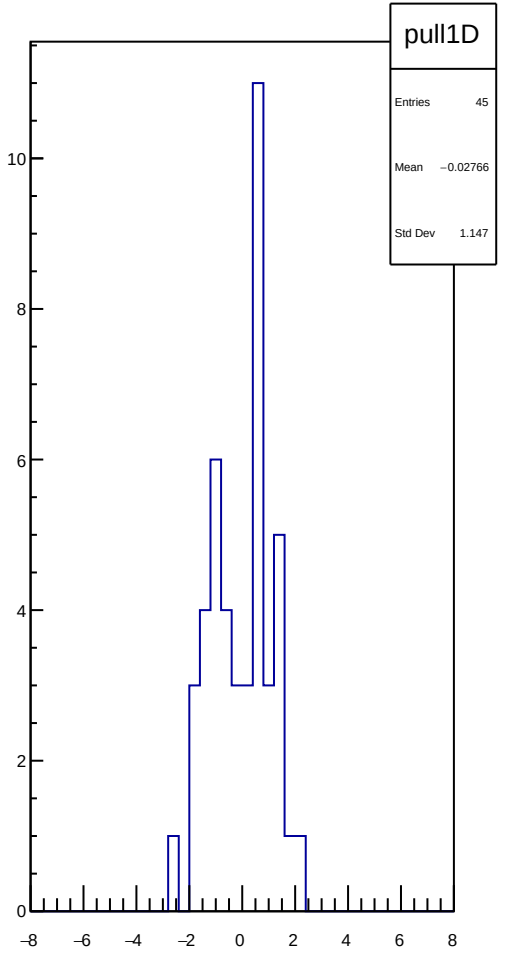

asym_us_agg_dd_rms vs run
χ² / ndf 354.7 / 44
p0 901.8 ± 0.9601
940
930
920
910
900
890
880
870
860
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

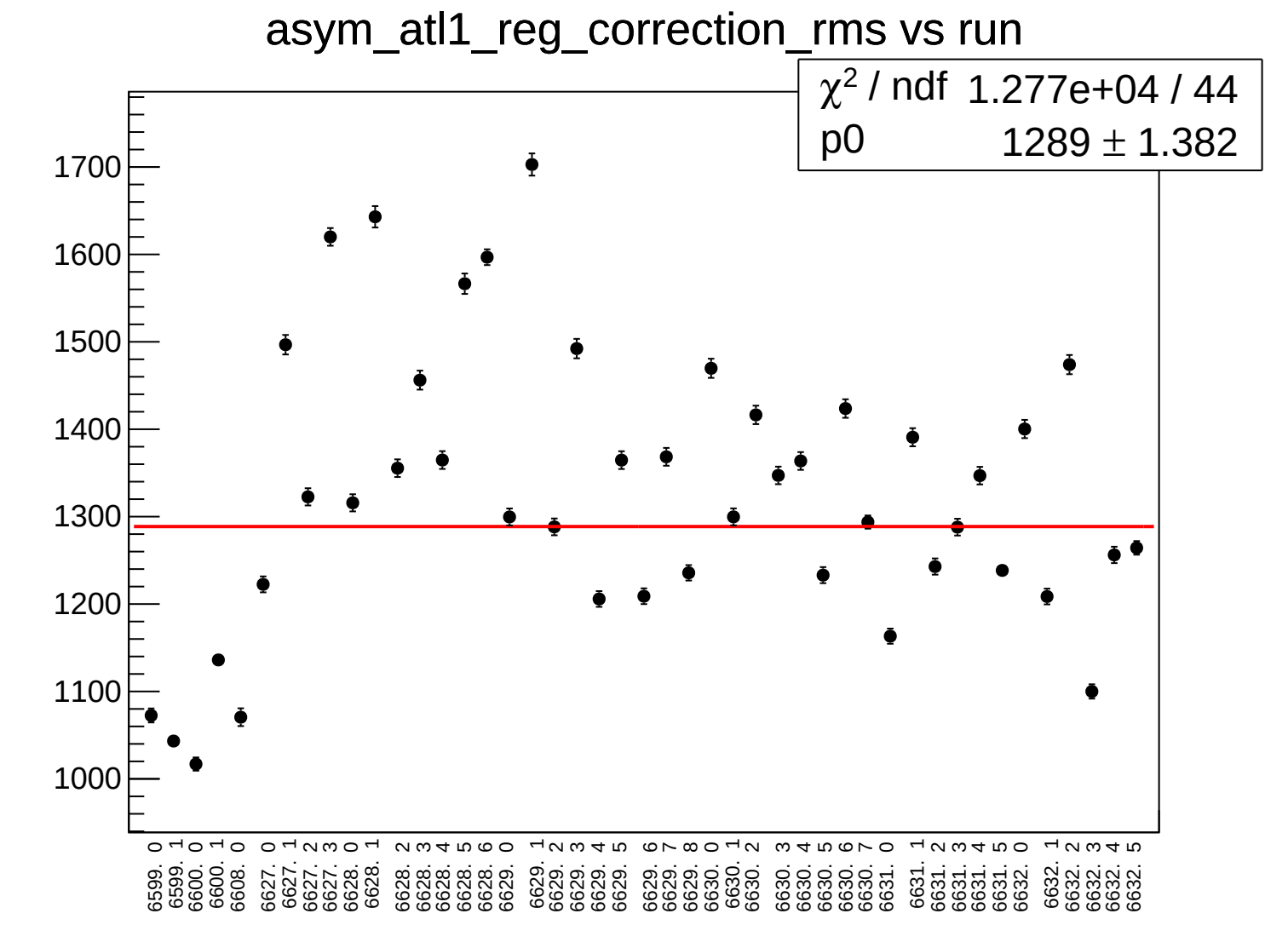

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 35.13 / 44
p0 −888.5 ± 3623
pull
Entries 45
Mean −286.1
Std Dev 0

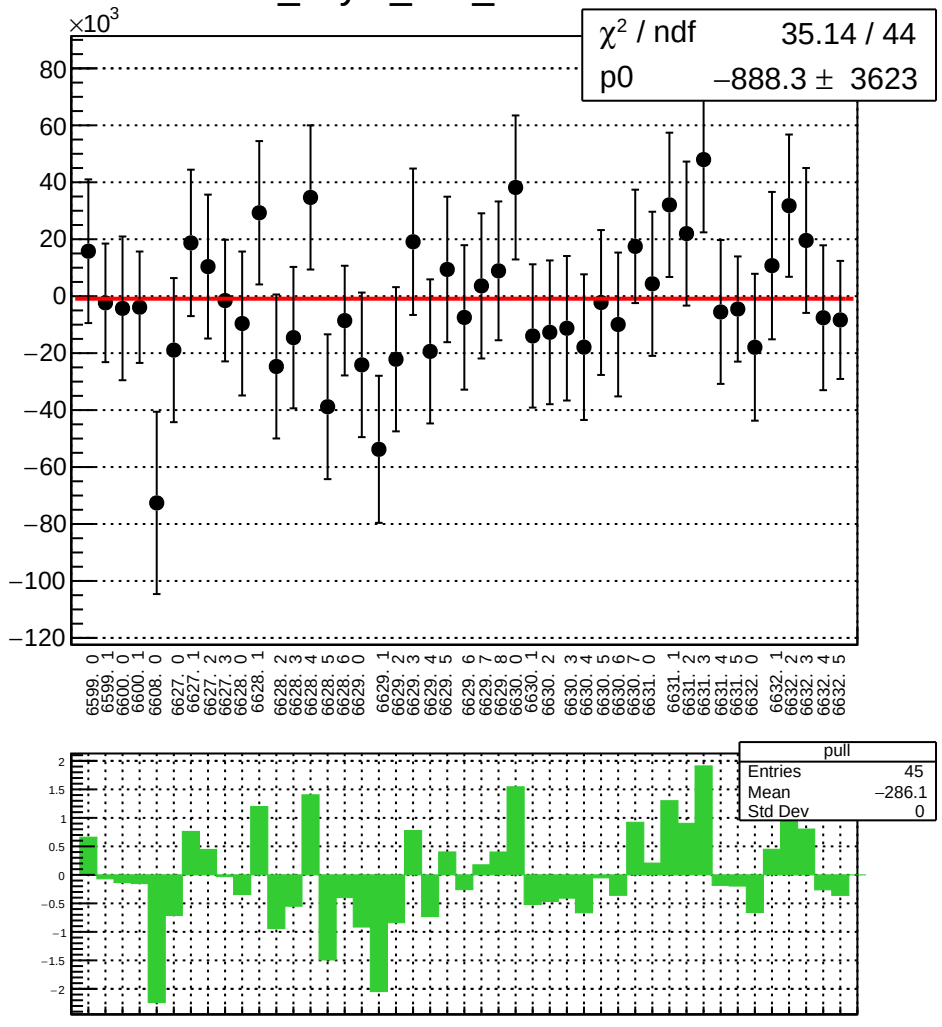

pull1D
Entries 45
Mean −0.009138
Std Dev 0.8836

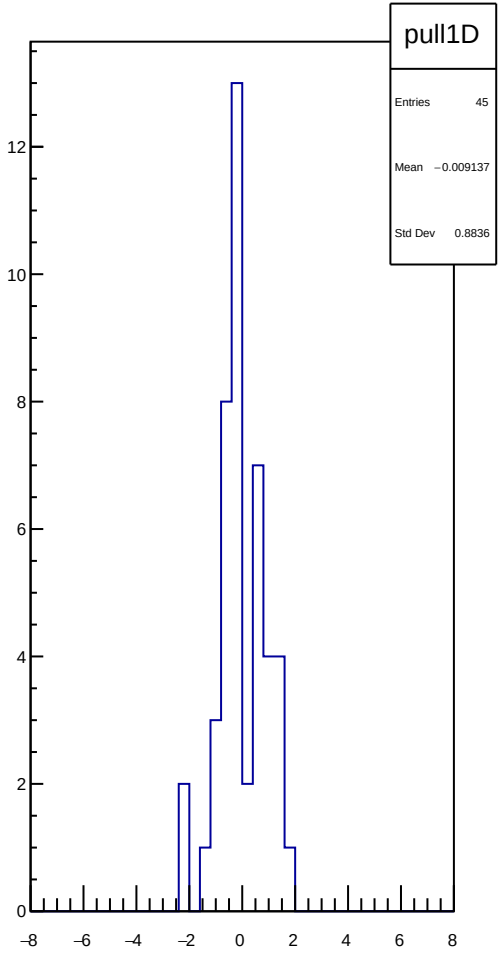

reg_asym_atl1_rms vs run
χ² / ndf 51.63 / 44
p0 2407 ± 2.562
2480
2460
2440
2420
2400
2380
2360
2340
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

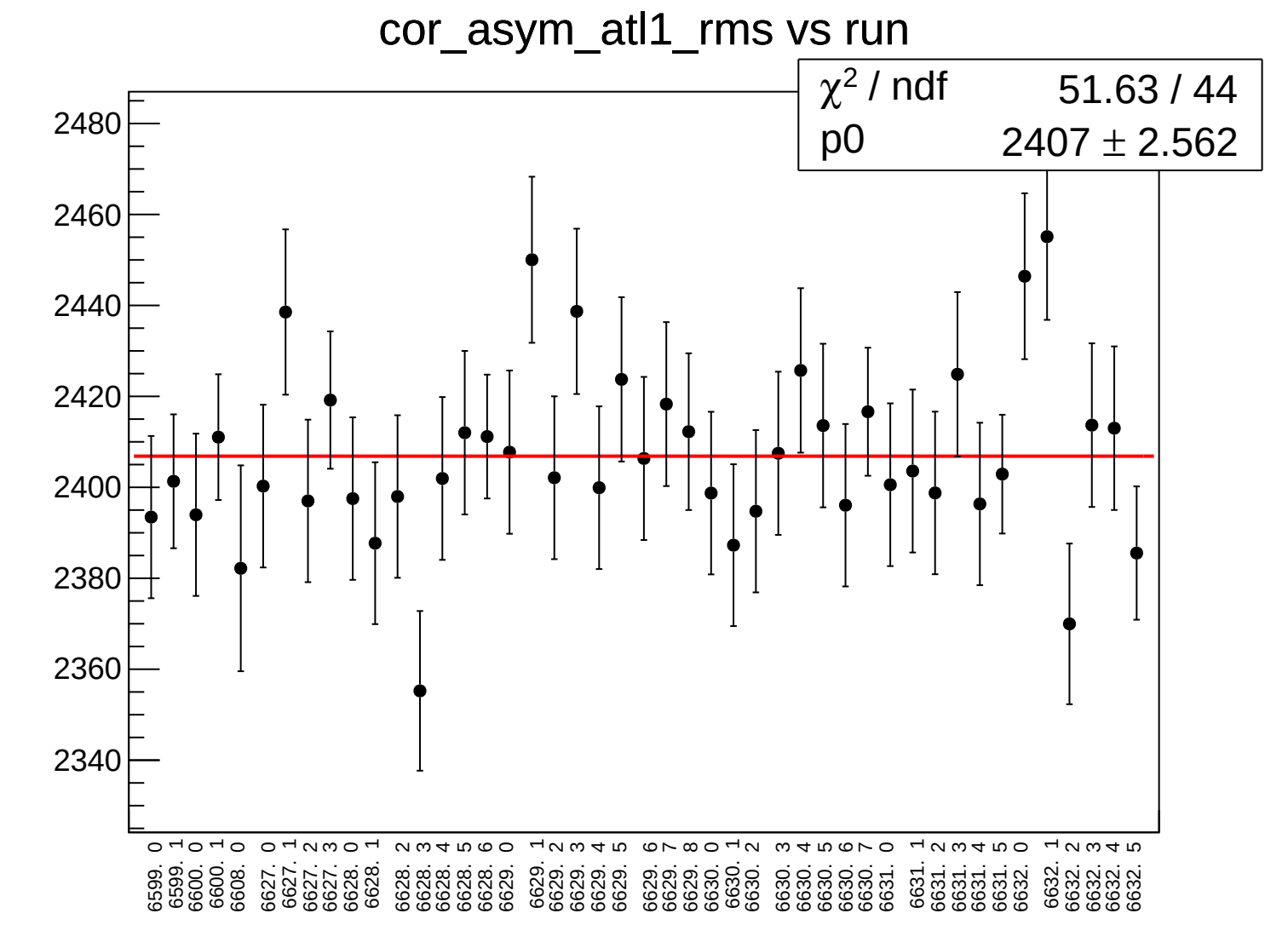

asym_atl1_reg_correction_mean vs run
χ² / ndf 59.19 / 44
p0 1091 ± 1954
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −54.92
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.02766
Std Dev 1.147
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1_reg_correction_rms vs run
χ² / ndf 1.277e+04 / 44
p0 1289 ± 1.382
1700
1600
1500
1400
1300
1200
1100
1000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_atl1_mean vs run
×10^3
χ² / ndf 35.14 / 44
p0 −888.3 ± 3623
pull
Entries 45
Mean −286.1
Std Dev 0


pull1D
Entries 45
Mean −0.009137
Std Dev 0.8836


cor_asym_atl1_rms vs run
χ² / ndf 51.63 / 44
p0 2407 ± 2.562
2480
2460
2440
2420
2400
2380
2360
2340
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6632. 4
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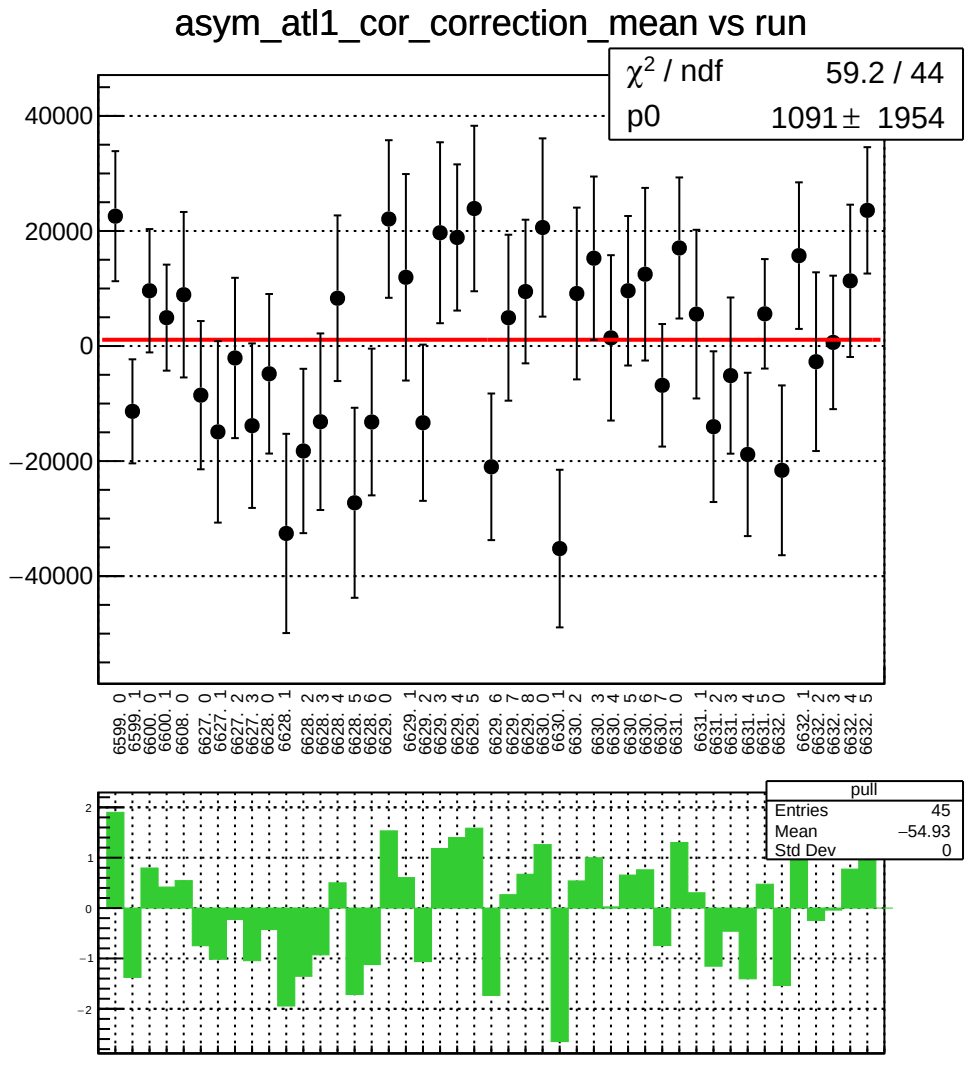
asym_atl1_cor_correction_mean vs run
χ² / ndf 59.2 / 44
p0 1091 ± 1954
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 4
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
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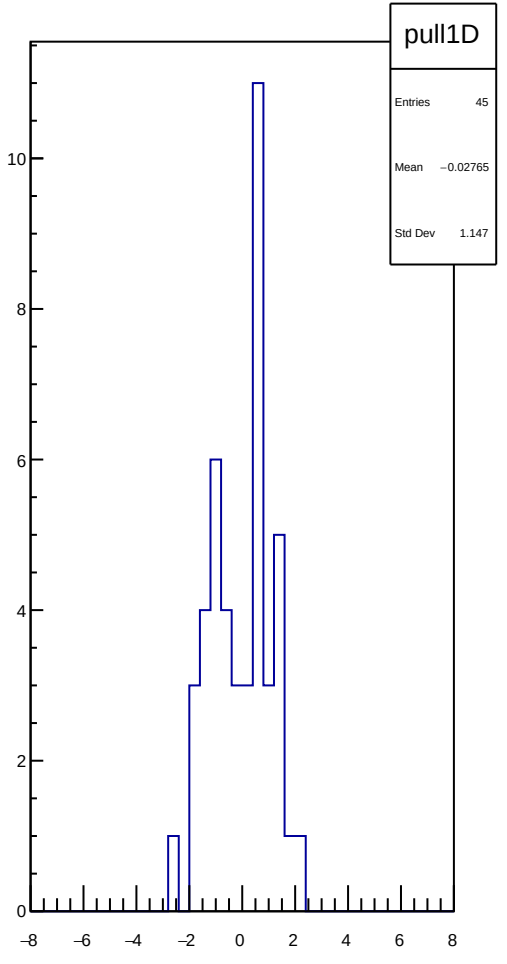
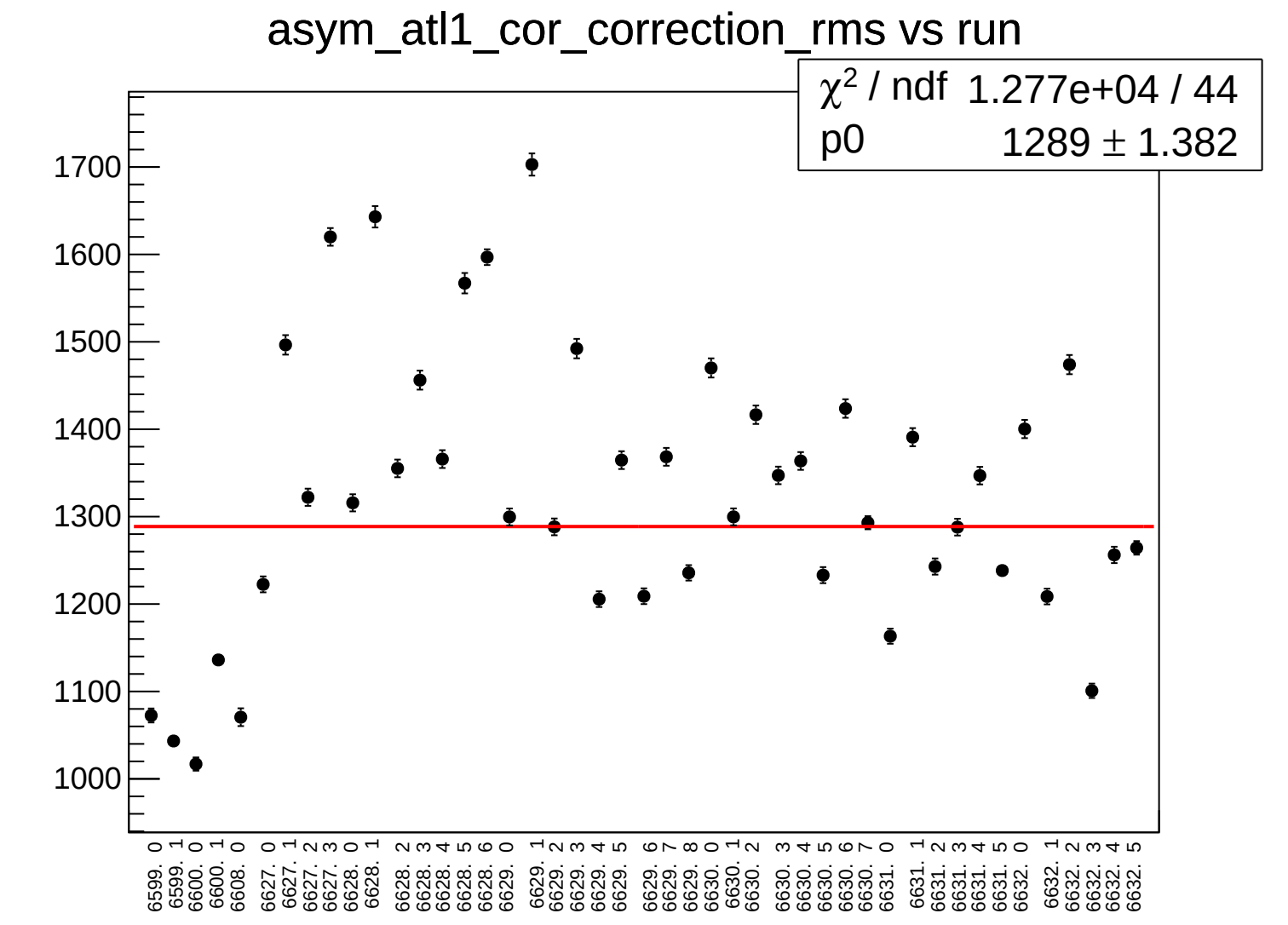
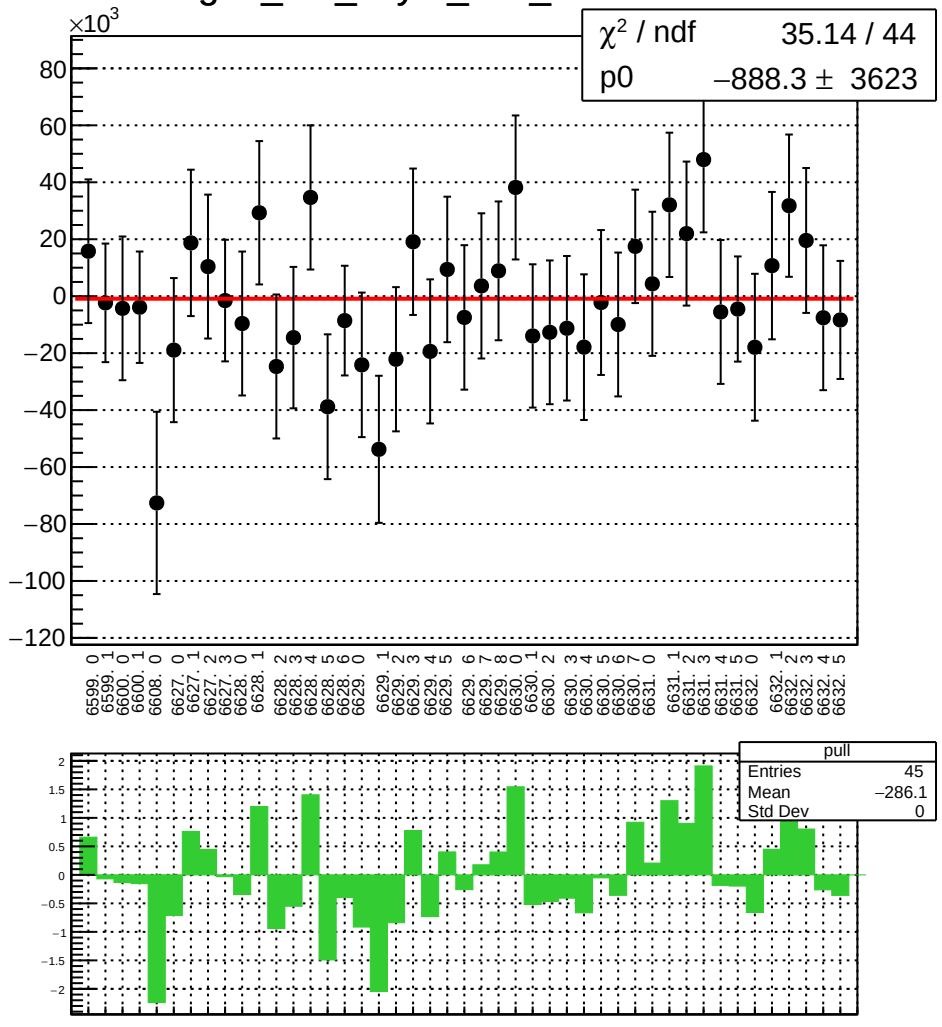
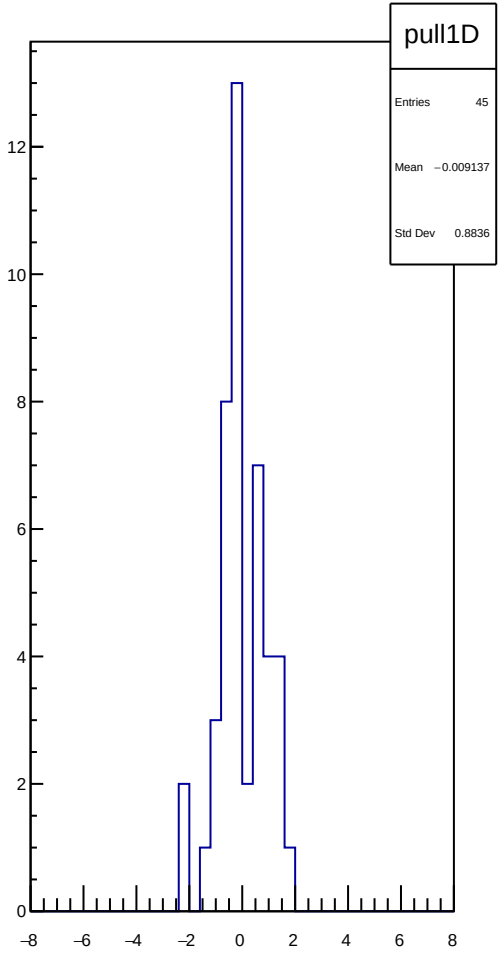
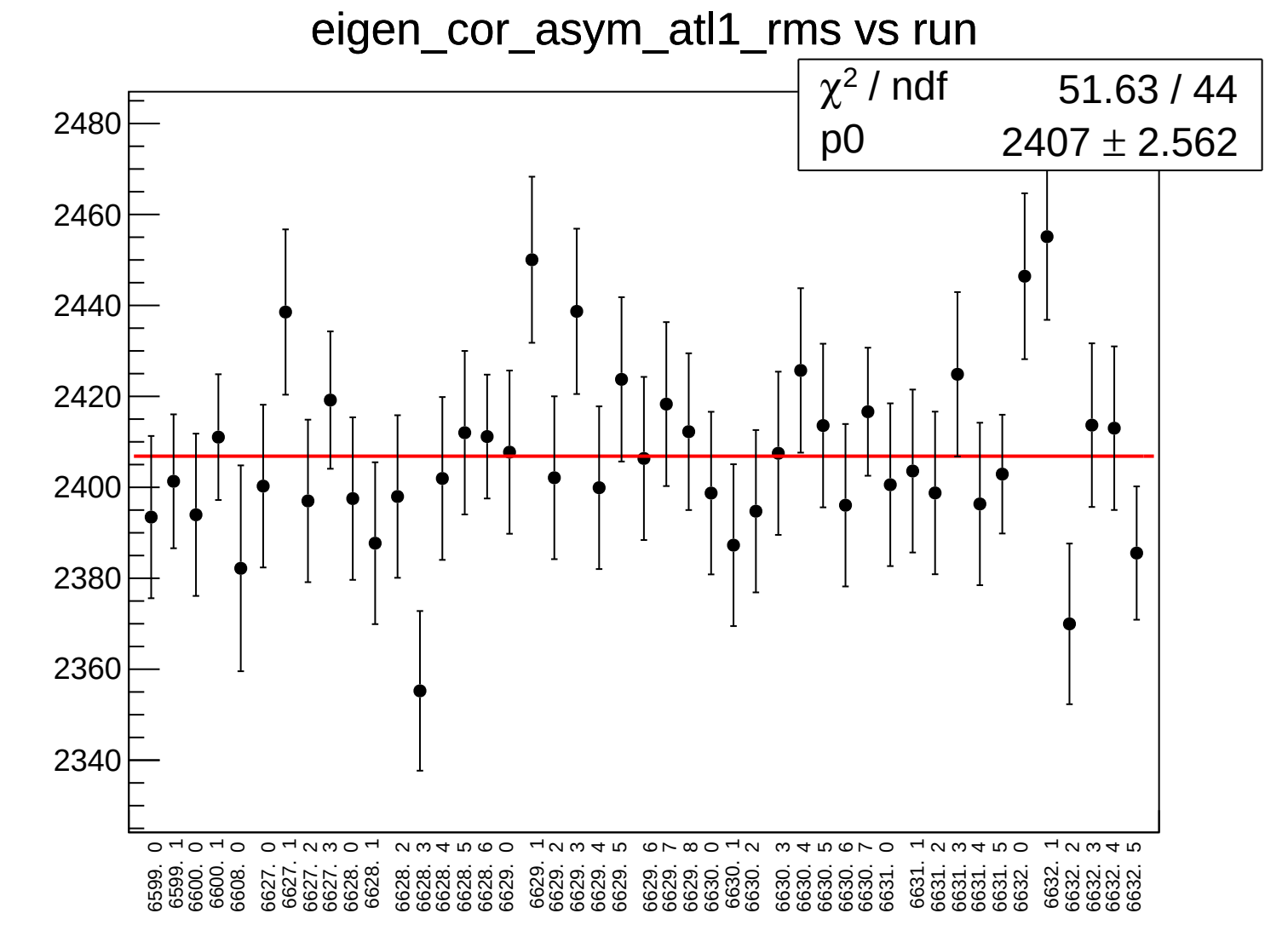
6632. 4
6632. 5
pull
Entries 45
Mean −54.93
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.02765
Std Dev 1.147
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1_cor_correction_rms vs run
χ² / ndf 1.277e+04 / 44
p0 1289 ± 1.382
1700
1600
1500
1400
1300
1200
1100
1000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_cor_asym_atl1_mean vs run
×10^3
χ² / ndf 35.14 / 44
p0 −888.3 ± 3623
pull
Entries 45
Mean −286.1
Std Dev 0


pull1D
Entries 45
Mean −0.009137
Std Dev 0.8836


eigen_cor_asym_atl1_rms vs run
χ² / ndf 51.63 / 44
p0 2407 ± 2.562
2480
2460
2440
2420
2400
2380
2360
2340
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
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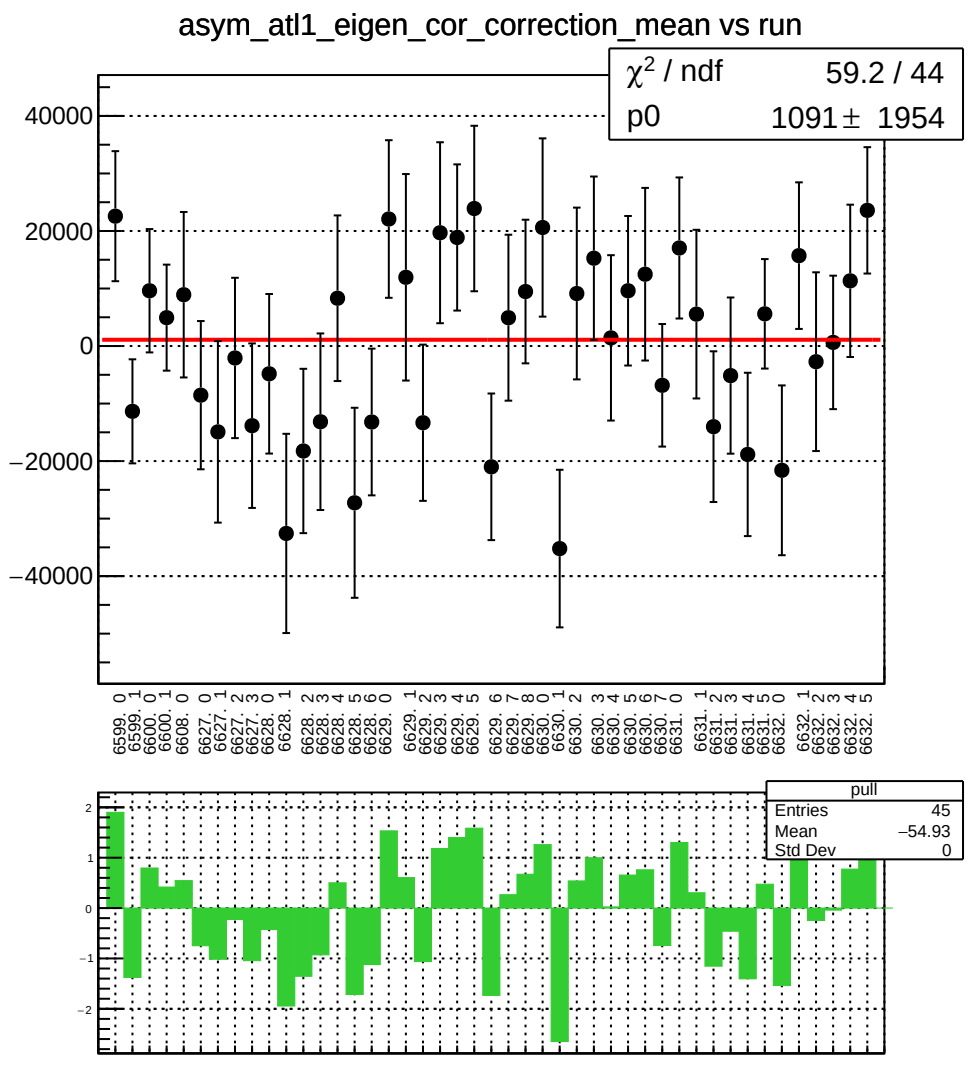
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 59.2 / 44
p0 1091 ± 1954
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 5
6629. 6
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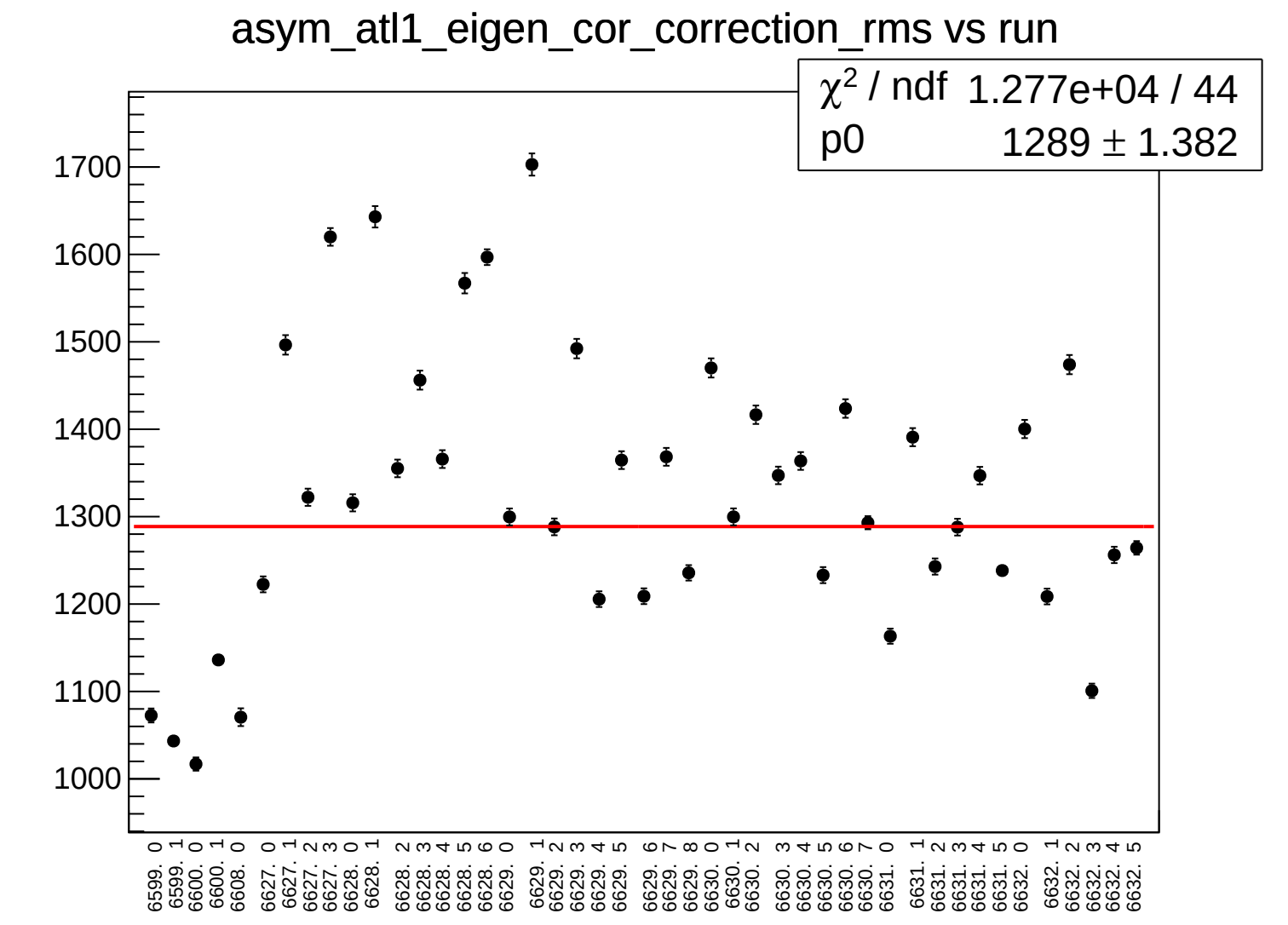
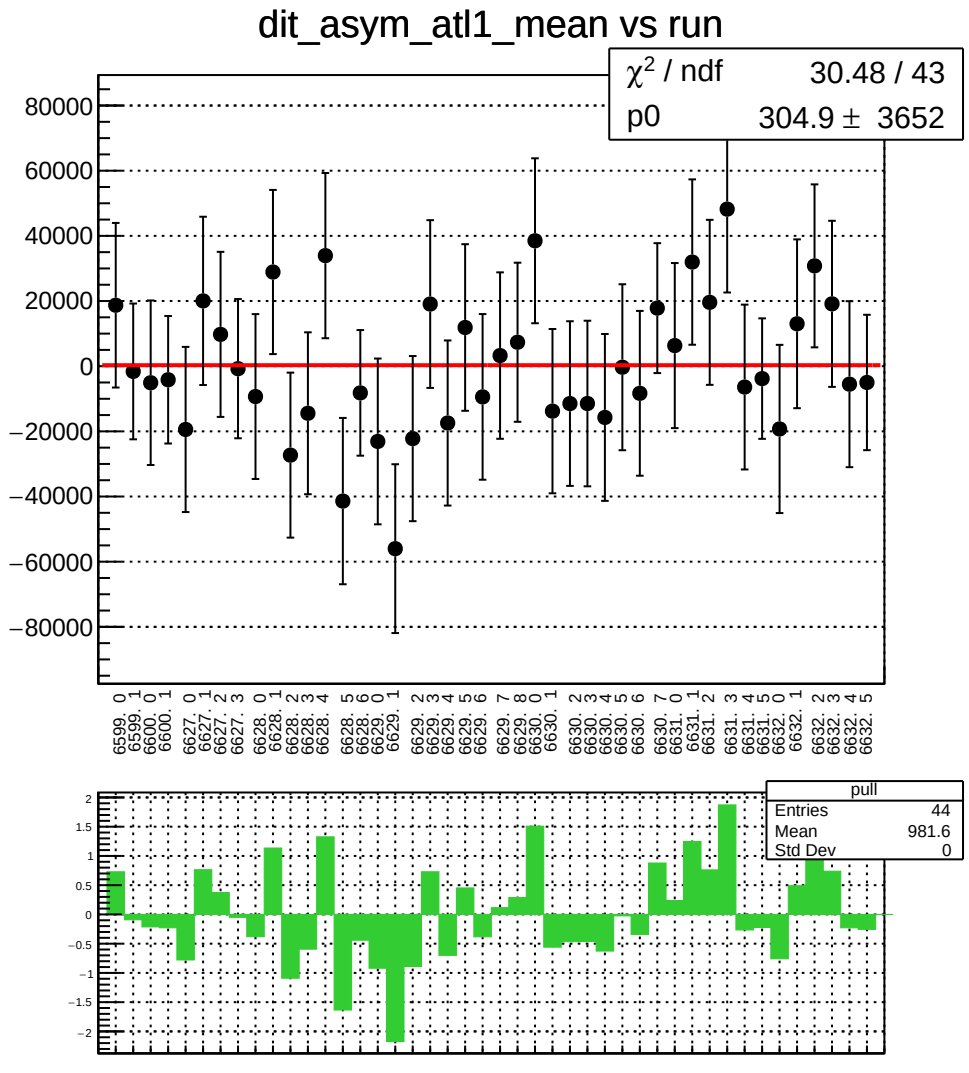
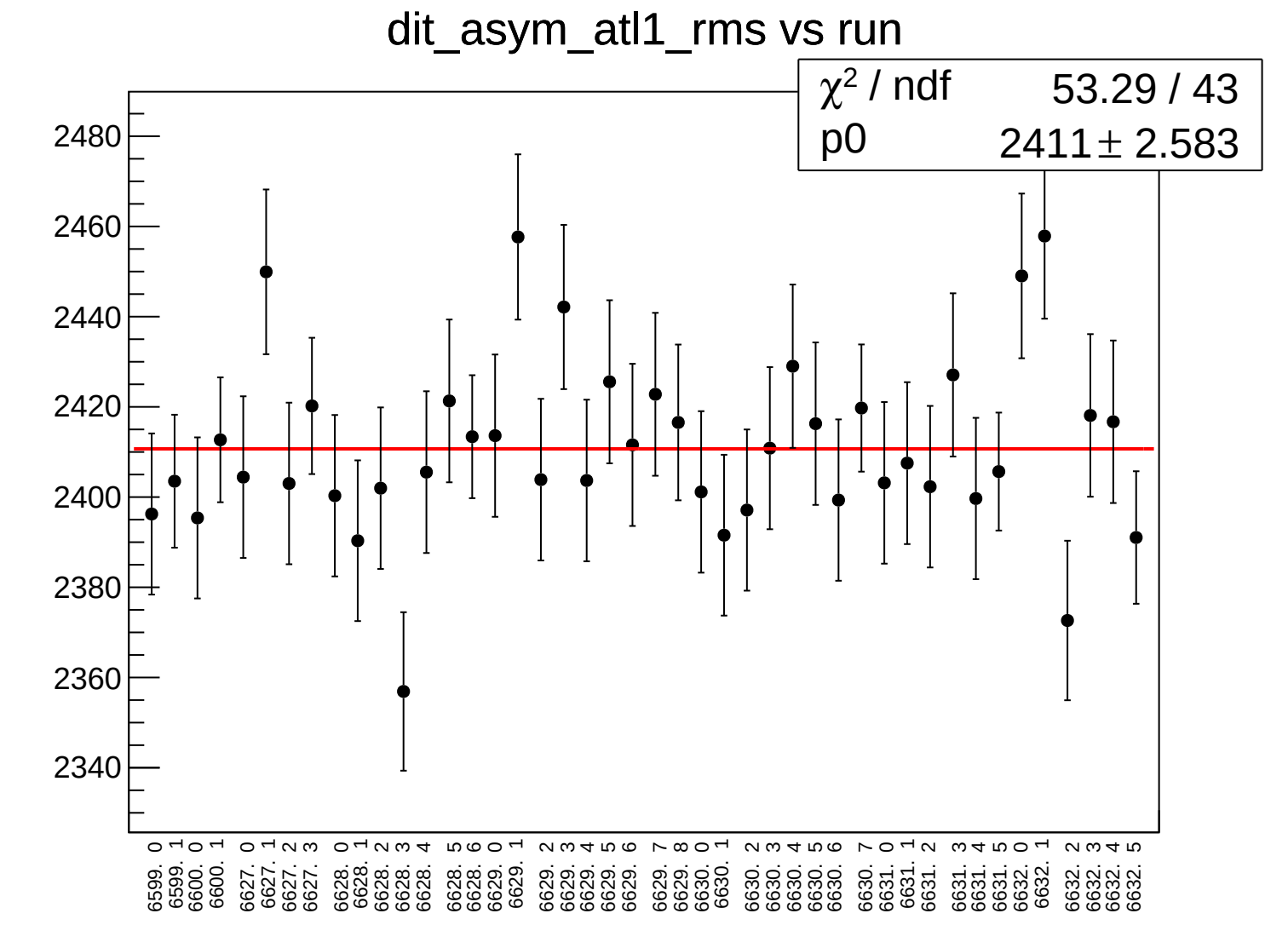
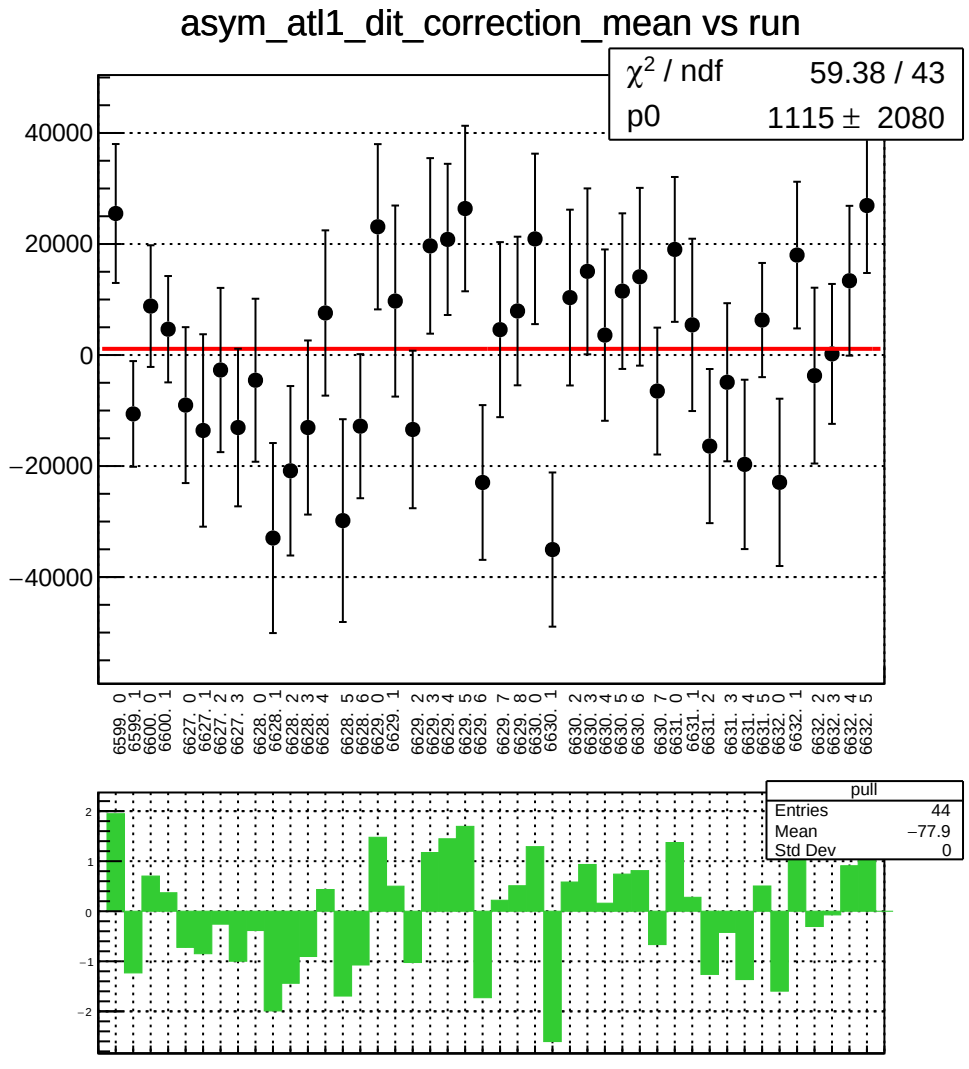
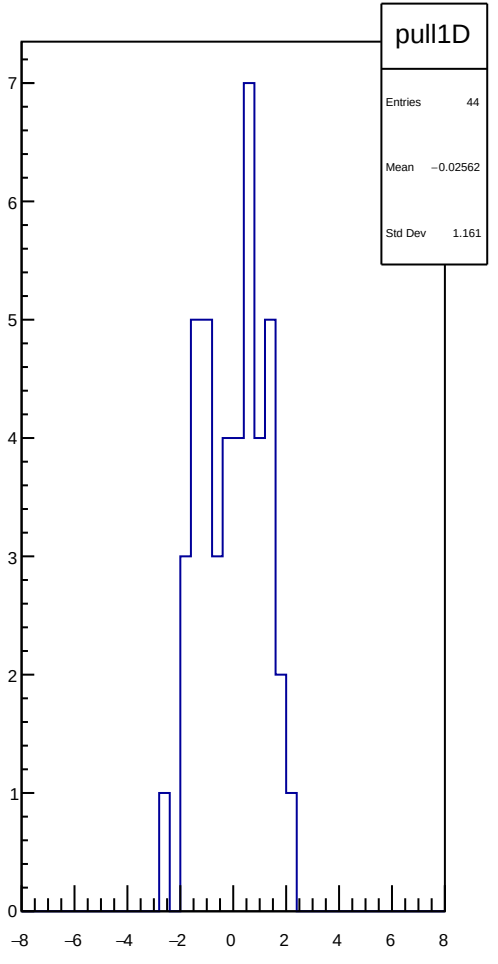
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −54.93
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02765
Std Dev 1.147
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

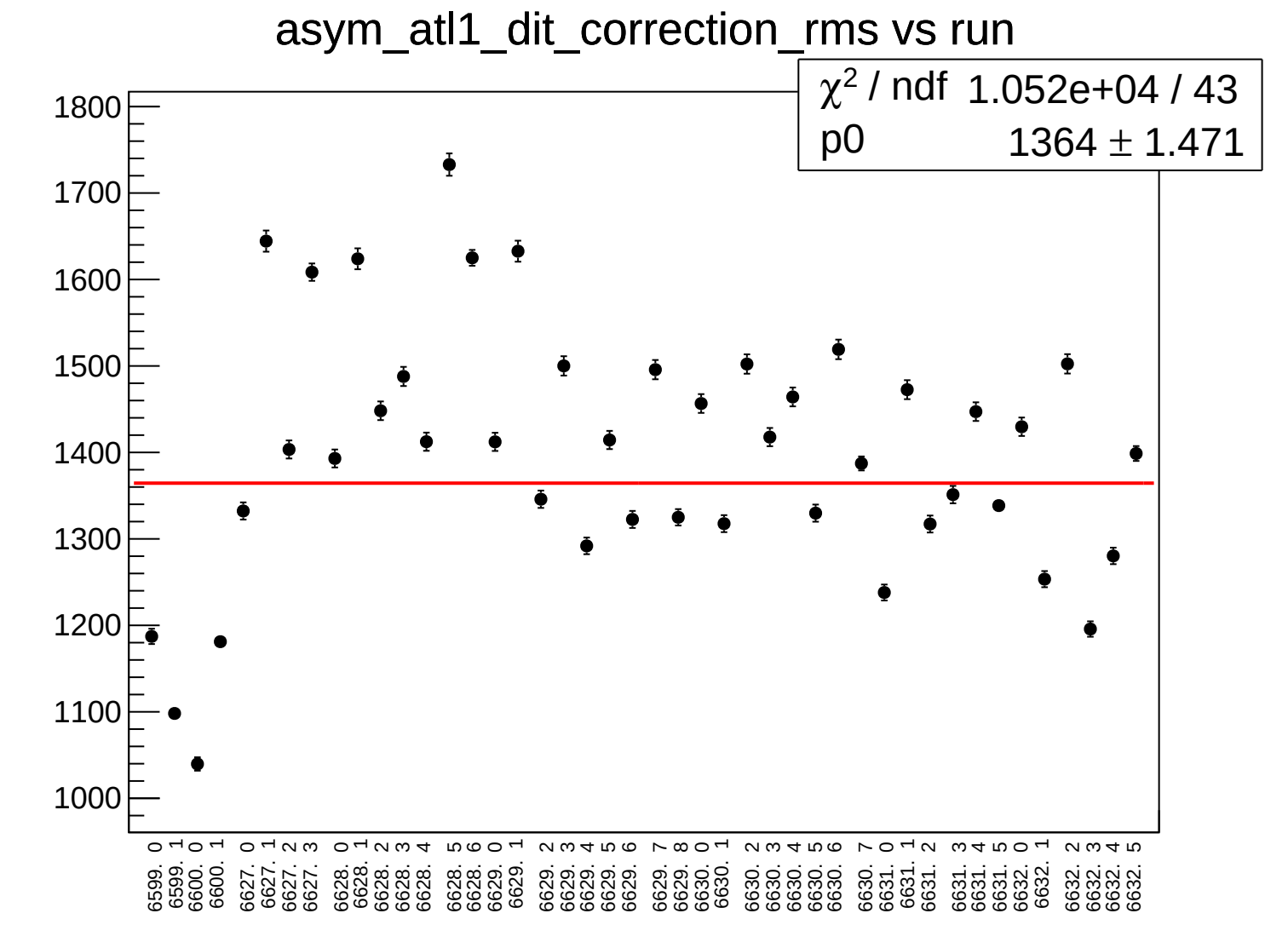

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 1.277e+04 / 44
p0 1289 ± 1.382
1700
1600
1500
1400
1300
1200
1100
1000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


dit_asym_atl1_mean vs run
χ² / ndf 30.48 / 43
p0 304.9 ± 3652
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 44
Mean 981.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 44
Mean 0.002168
Std Dev 0.8323
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atl1_rms vs run
χ² / ndf 53.29 / 43
p0 2411 ± 2.583
2480
2460
2440
2420
2400
2380
2360
2340
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl1_dit_correction_mean vs run
χ² / ndf 59.38 / 43
p0 1115 ± 2080
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 44
Mean −77.9
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 44
Mean −0.02562
Std Dev 1.161
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 1.052e+04 / 43
p0 1364 ± 1.471
1800
1700
1600
1500
1400
1300
1200
1100
1000
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
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6632. 0
6632. 1
6632. 2
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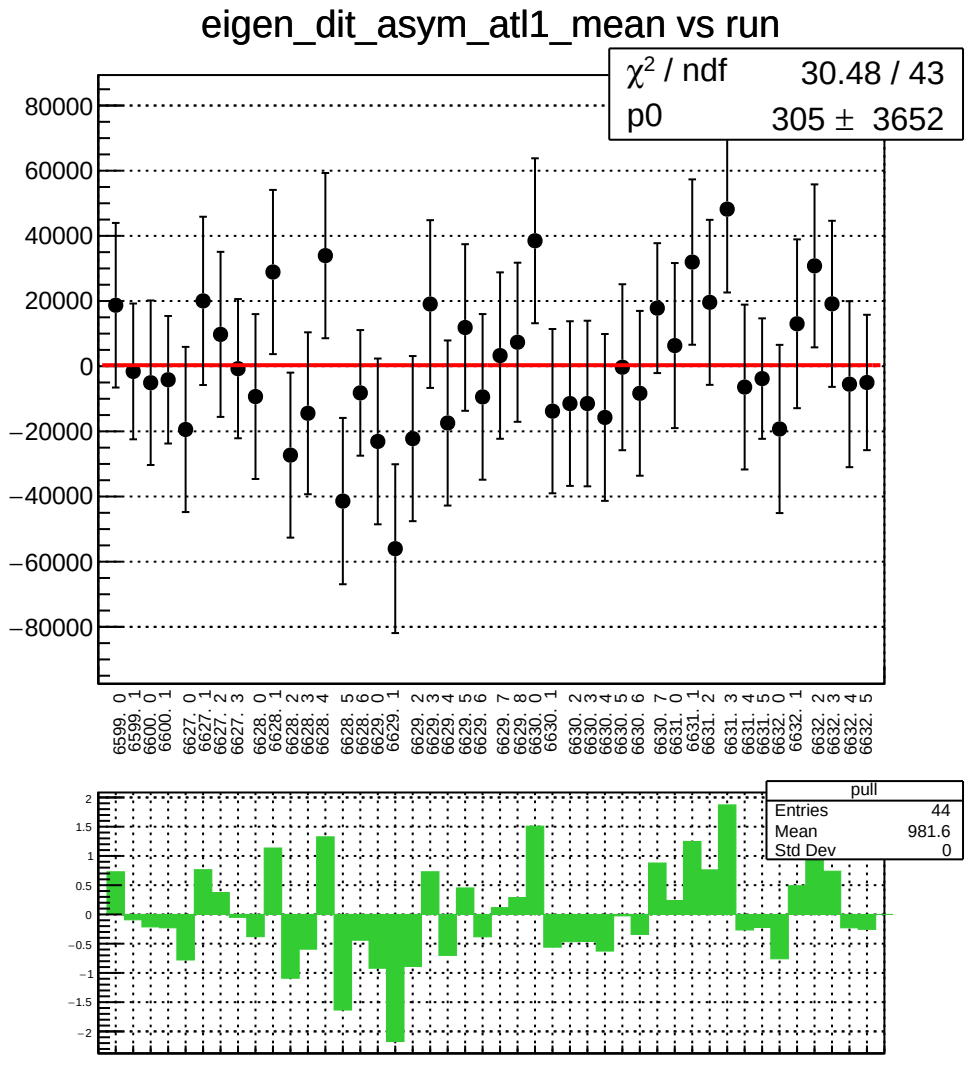
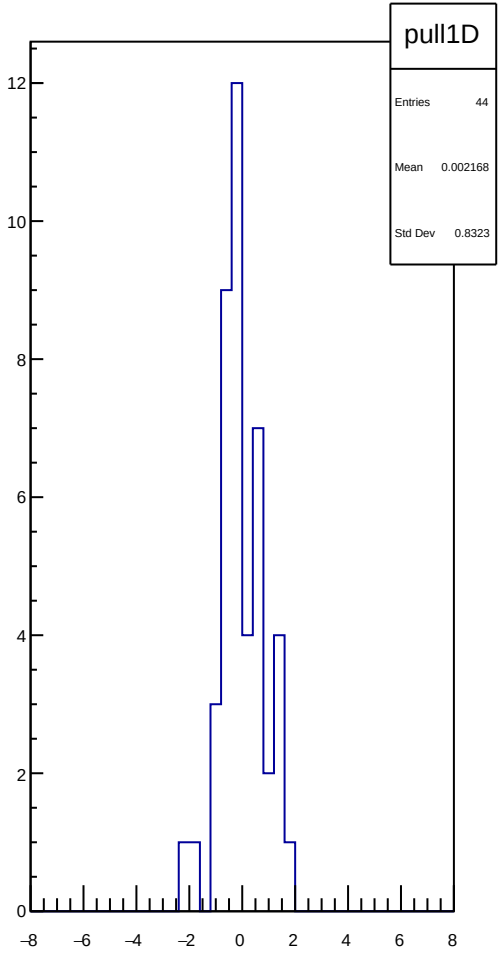
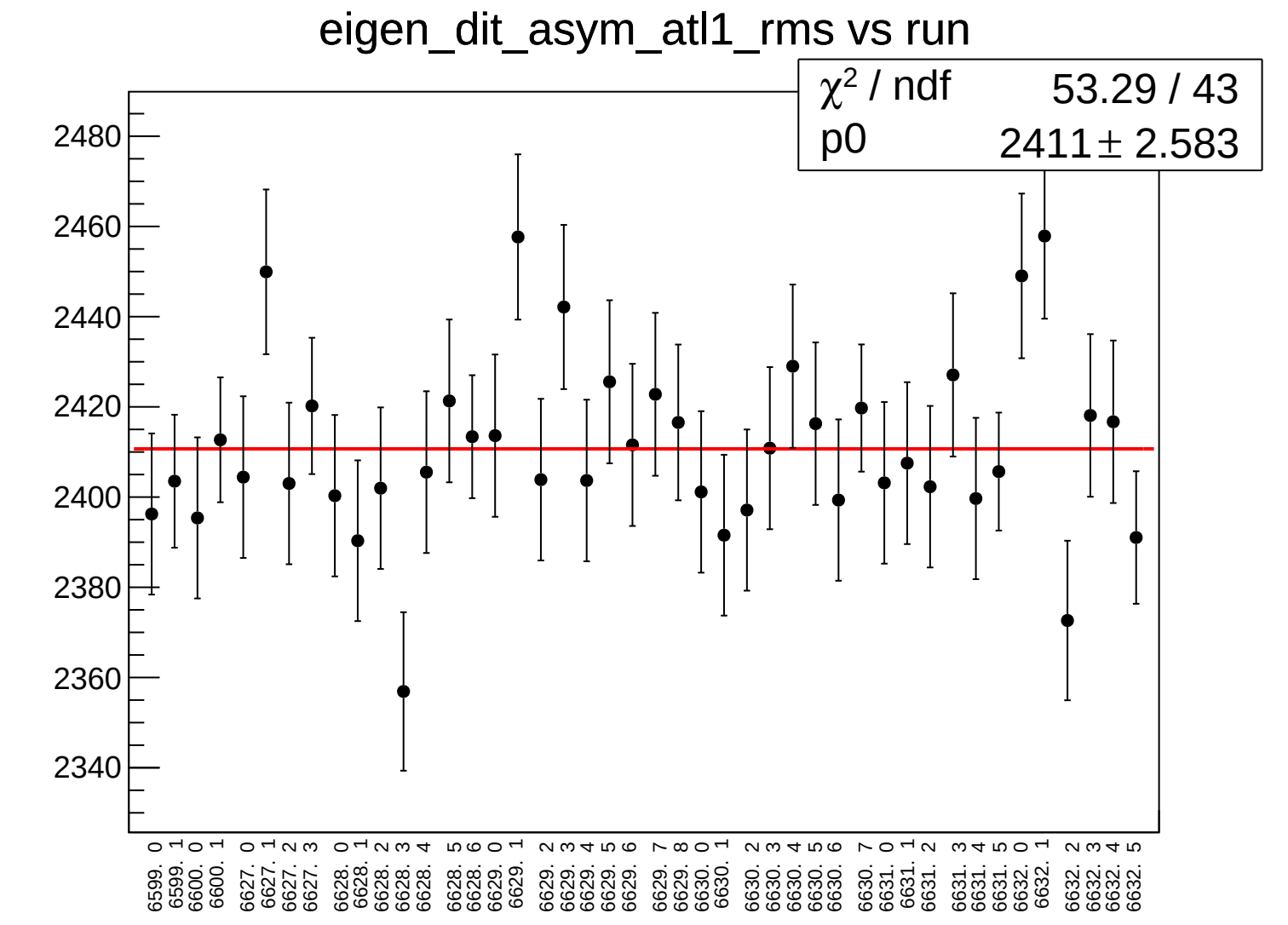
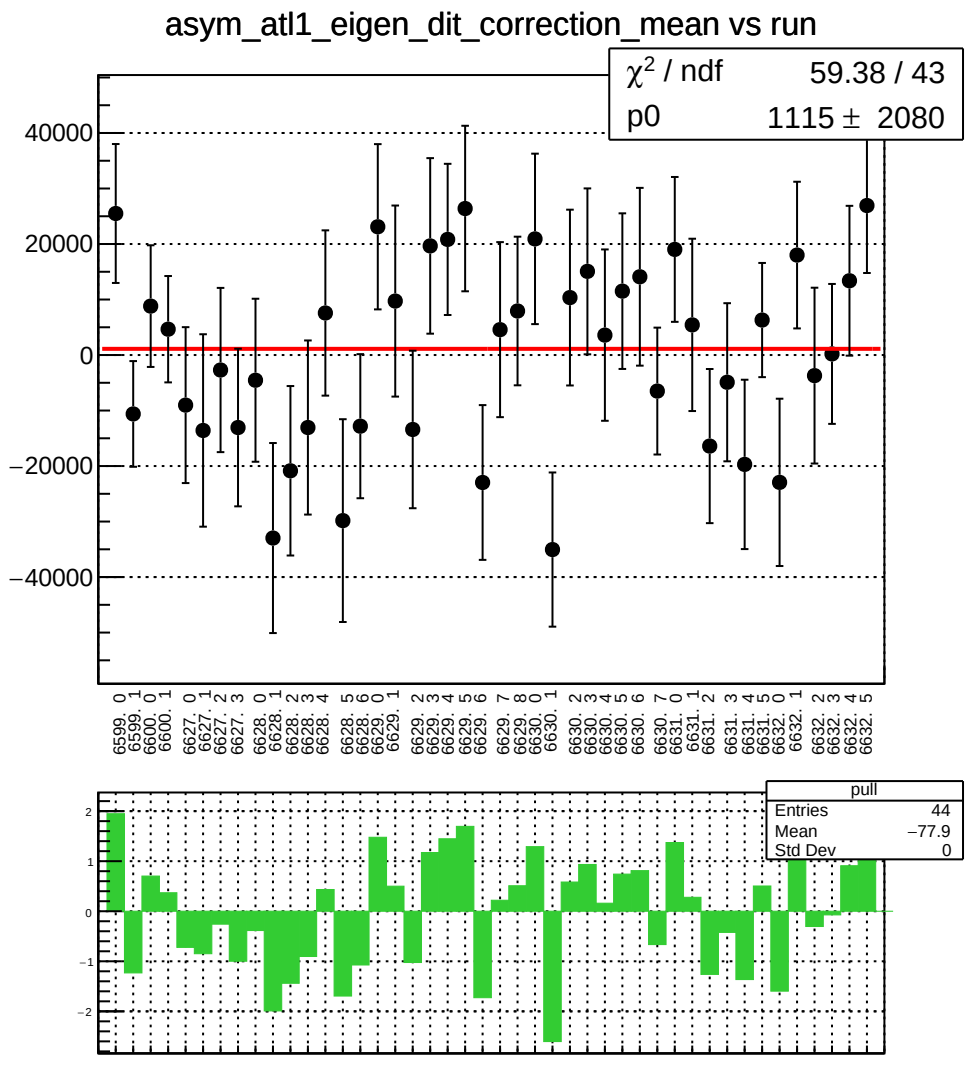
6632. 5


eigen_dit_asym_atl1_mean vs run
χ² / ndf 30.48 / 43
p0 305 ± 3652
pull
Entries 44
Mean 981.6
Std Dev 0


pull1D
Entries 44
Mean 0.002168
Std Dev 0.8323


eigen_dit_asym_atl1_rms vs run
χ² / ndf 53.29 / 43
p0 2411 ± 2.583
2480
2460
2440
2420
2400
2380
2360
2340
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 59.38 / 43
p0 1115 ± 2080
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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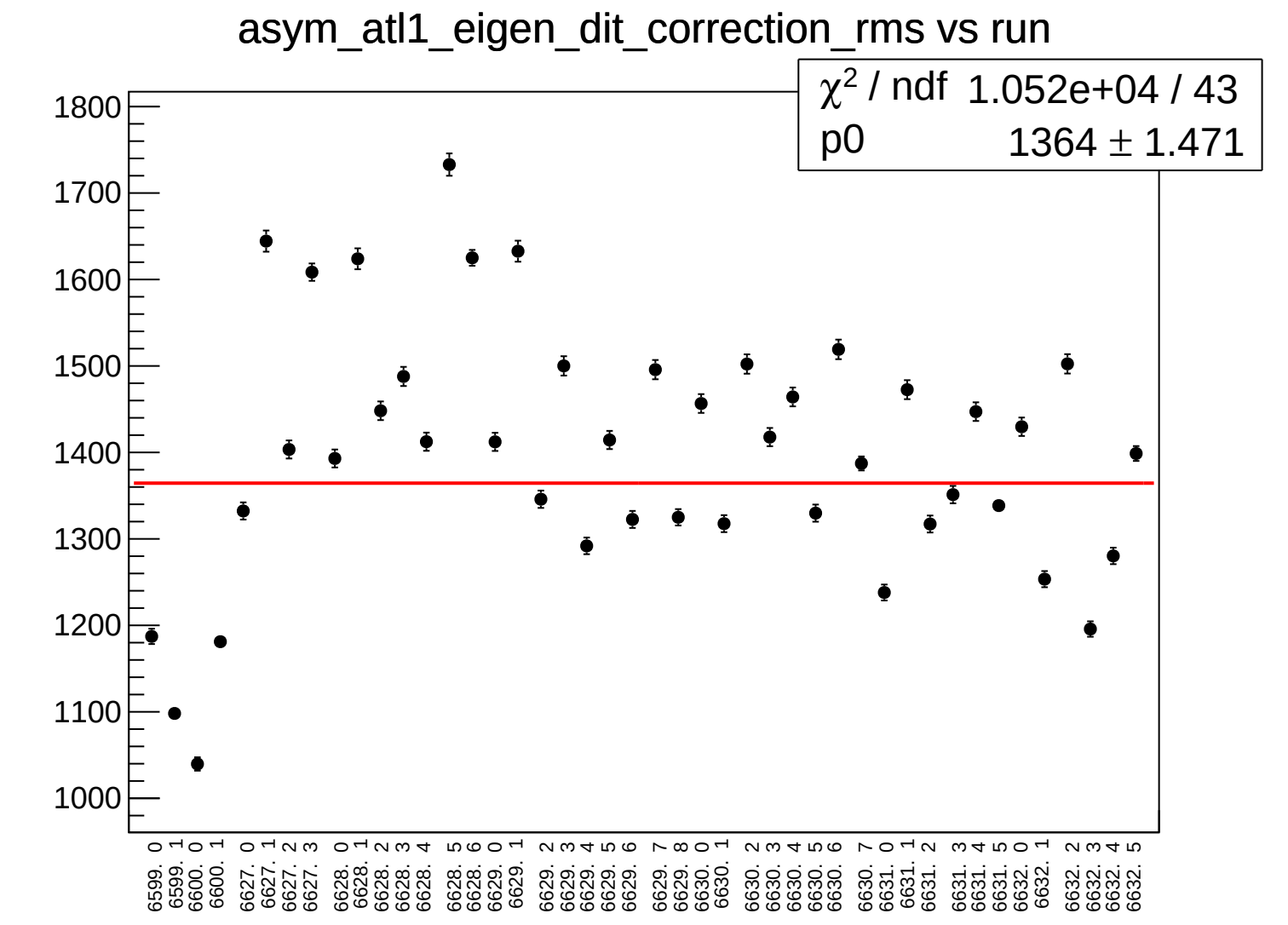
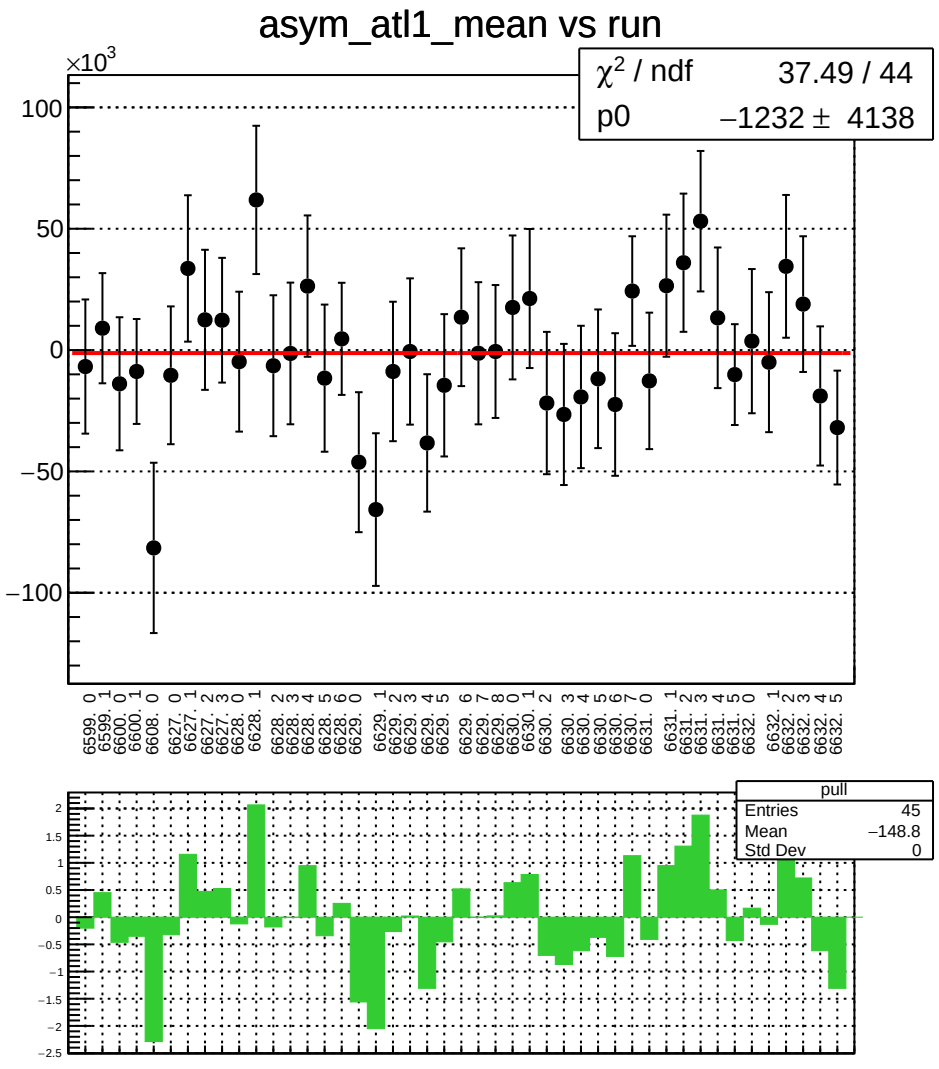
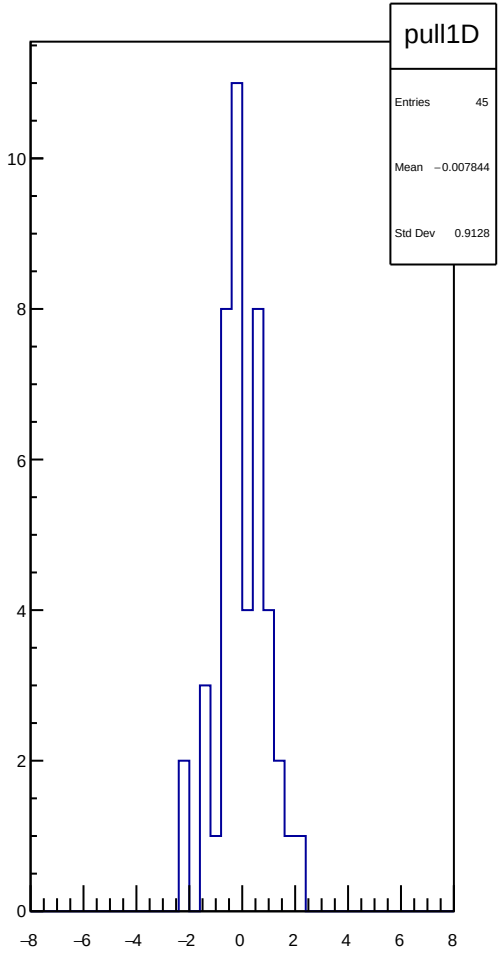
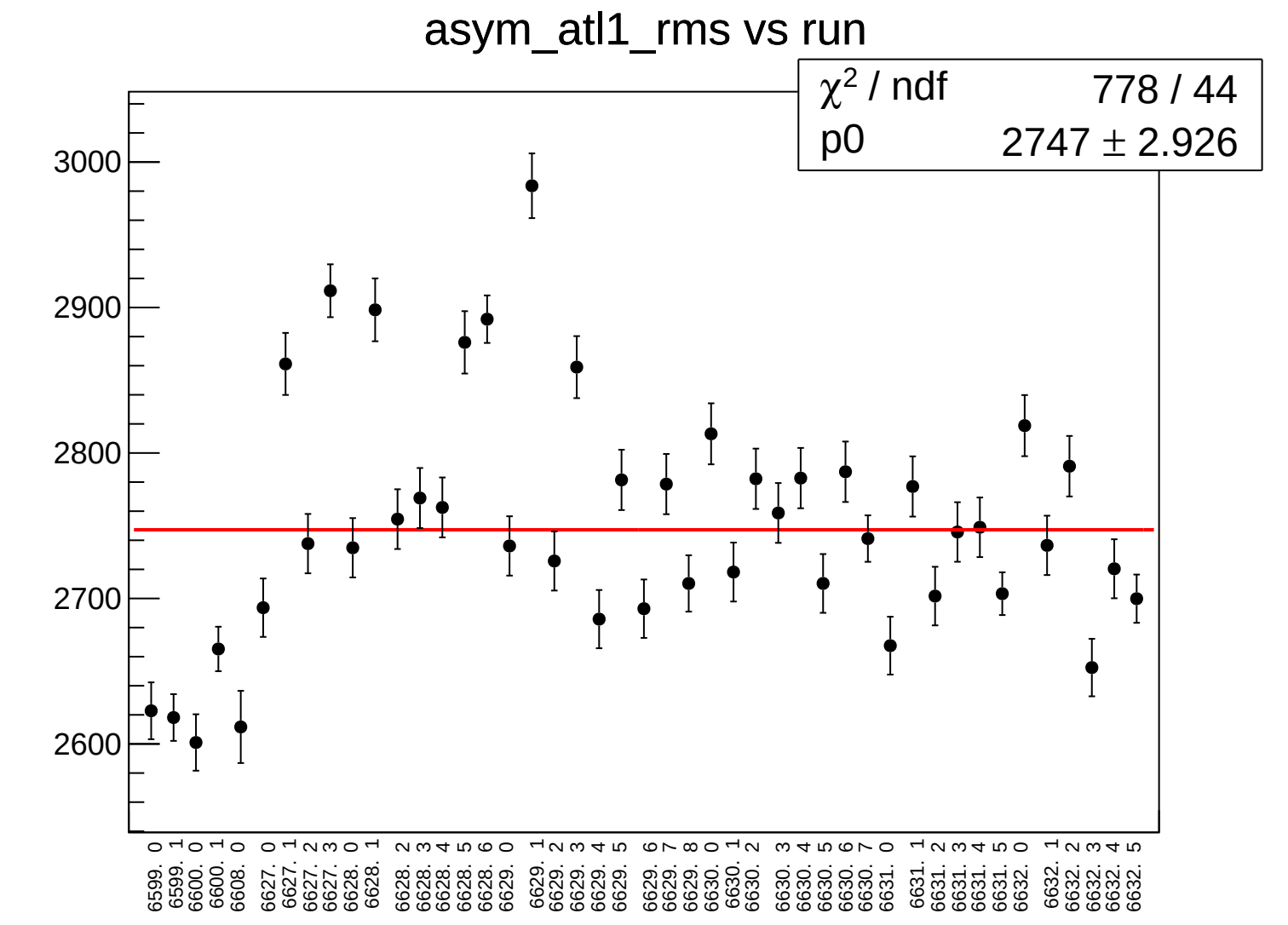
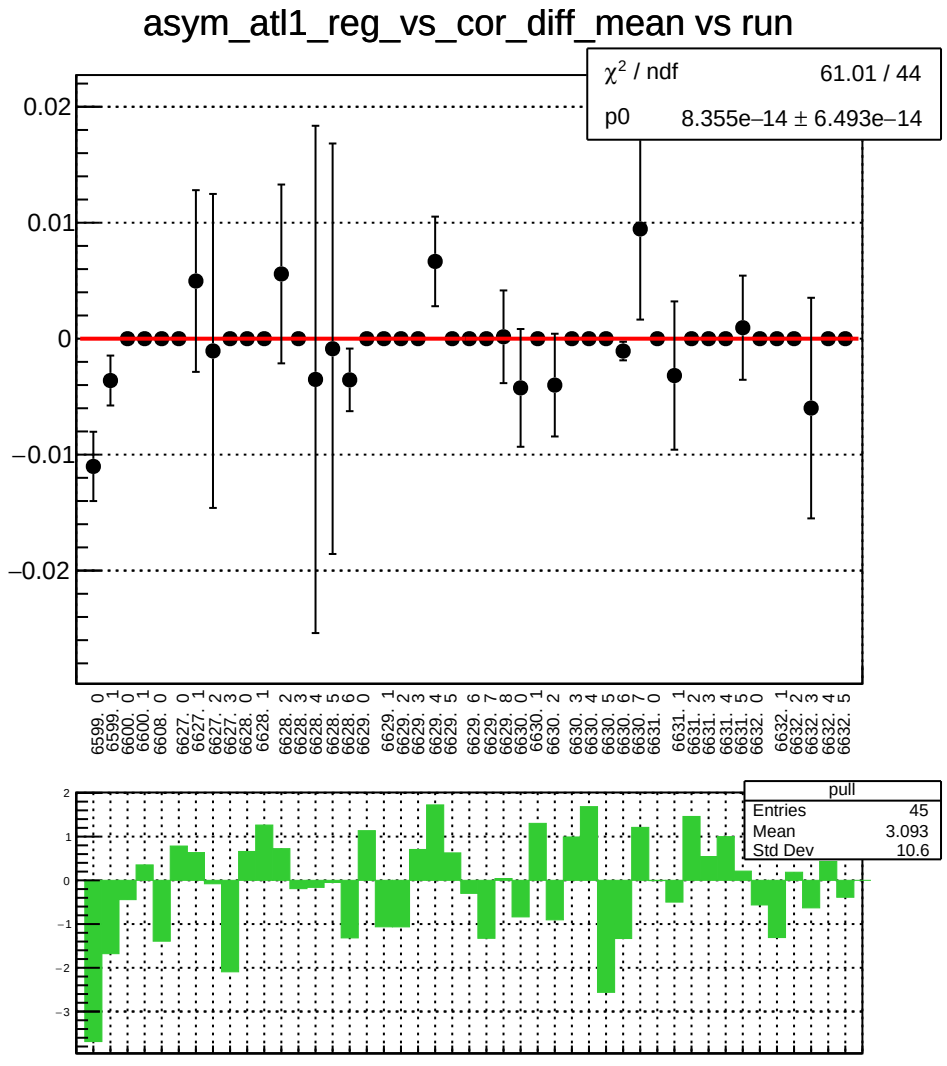
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 44
Mean −77.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 44
Mean −0.02562
Std Dev 1.161
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

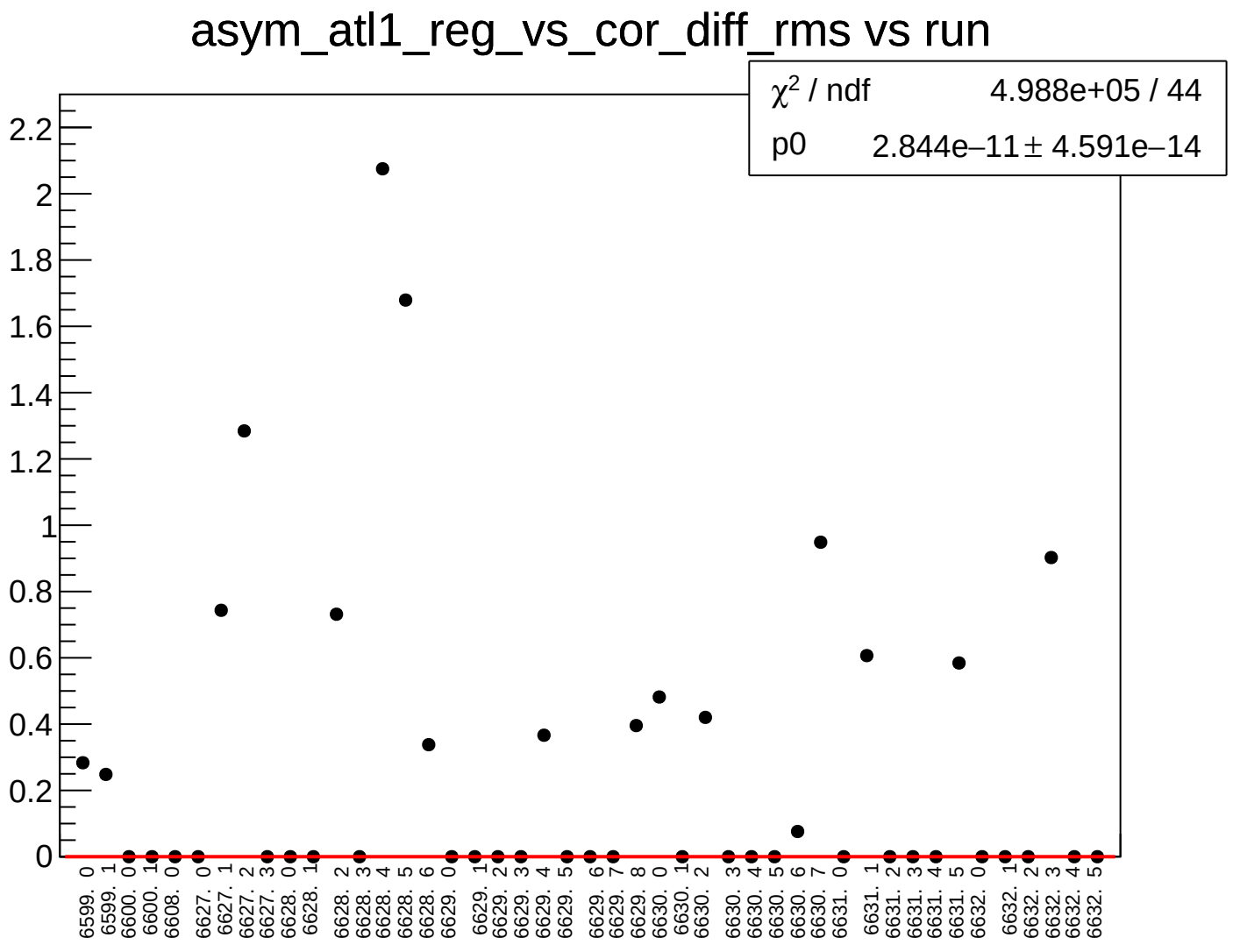

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 1.052e+04 / 43
p0 1364 ± 1.471
1800
1700
1600
1500
1400
1300
1200
1100
1000
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

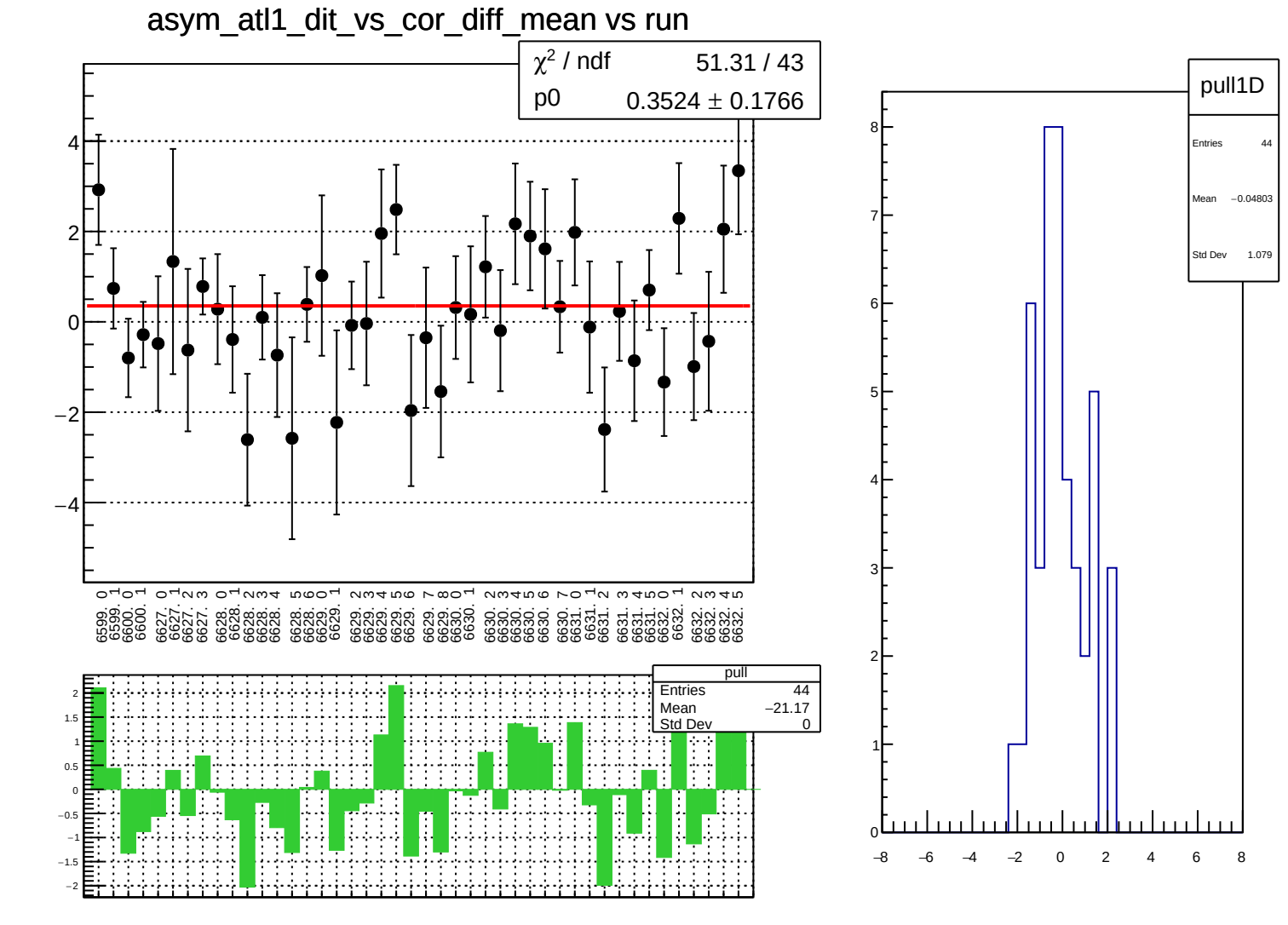

asym_atl1_mean vs run
×10^3
χ² / ndf 37.49 / 44
p0 −1232 ± 4138
100
50
0
−50
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −148.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

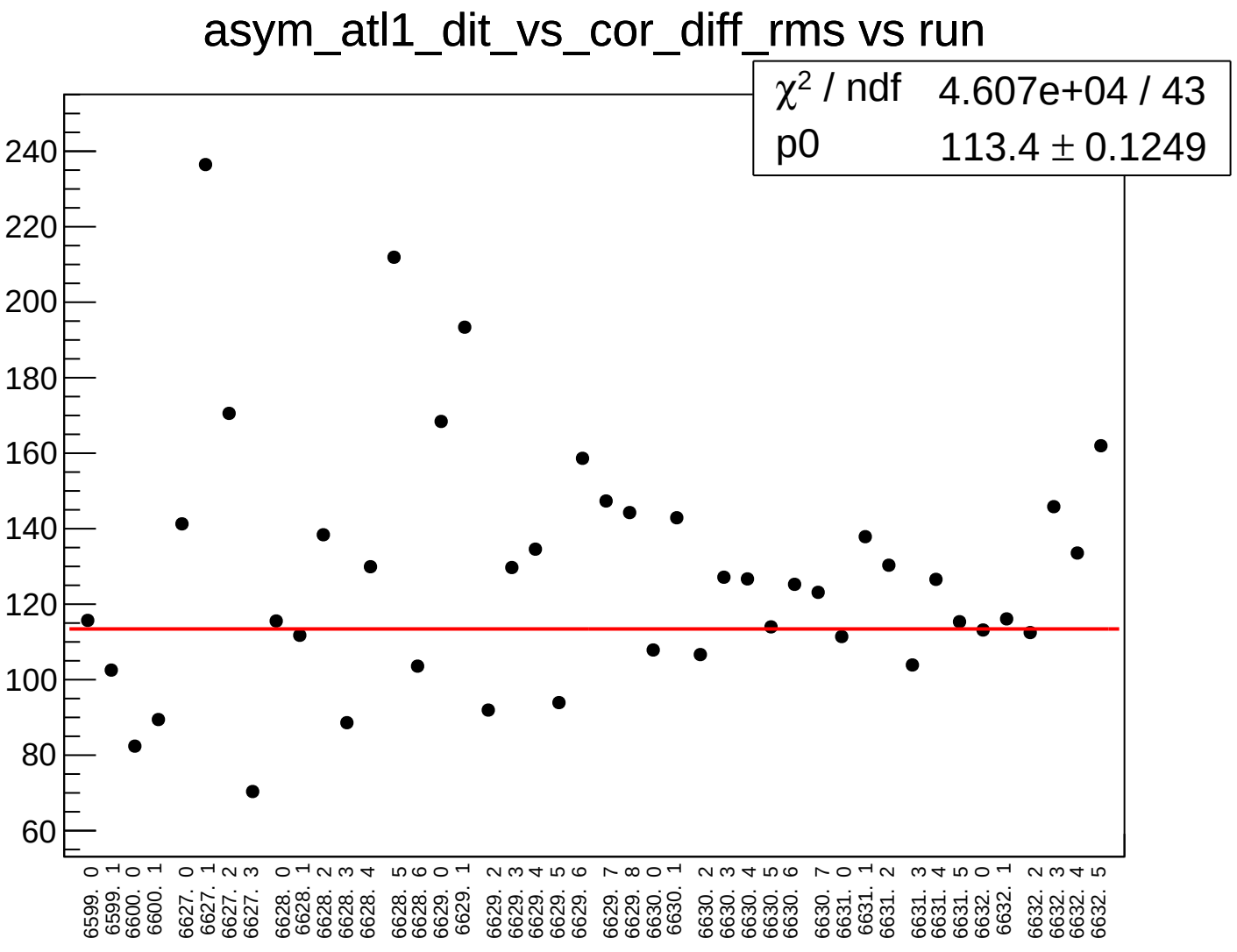

pull1D
Entries 45
Mean −0.007844
Std Dev 0.9128
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

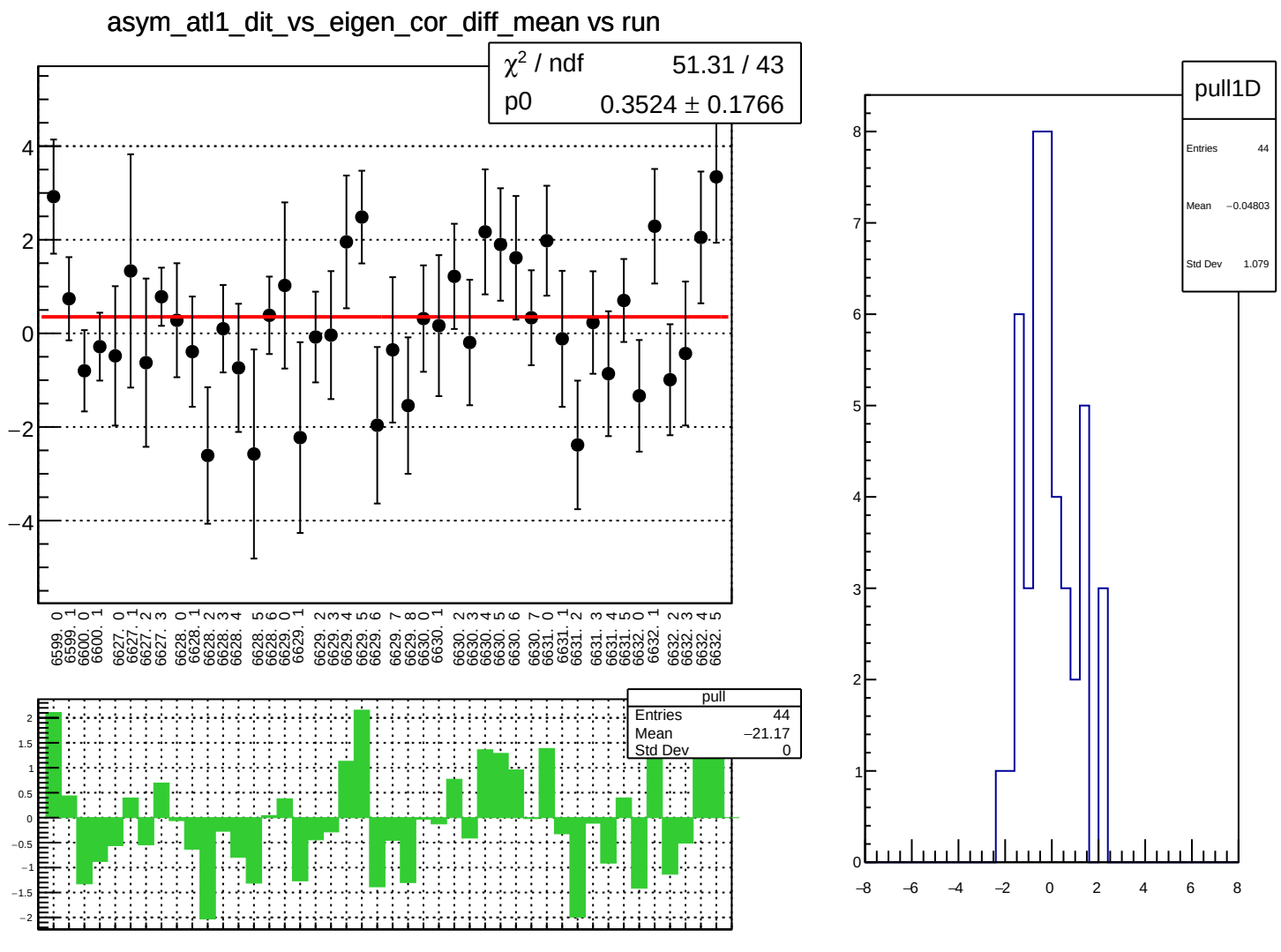

asym_atl1_rms vs run
χ² / ndf 778 / 44
p0 2747 ± 2.926
3000
2900
2800
2700
2600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

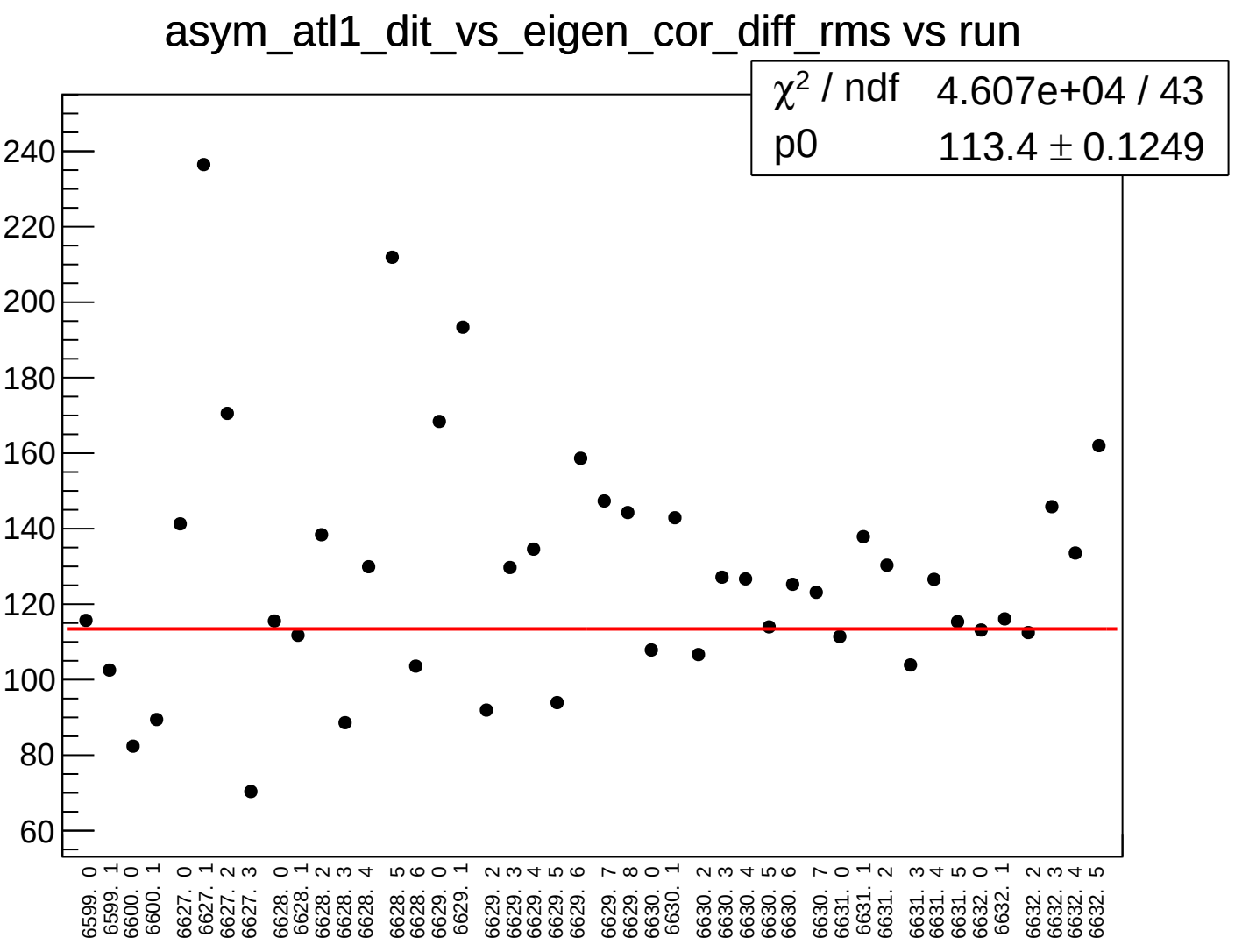

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 61.01 / 44
p0 8.355e−14 ± 6.493e−14
0.02
0.01
0
−0.01
−0.02
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 3.093
Std Dev 10.6
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.1373
Std Dev 1.156
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

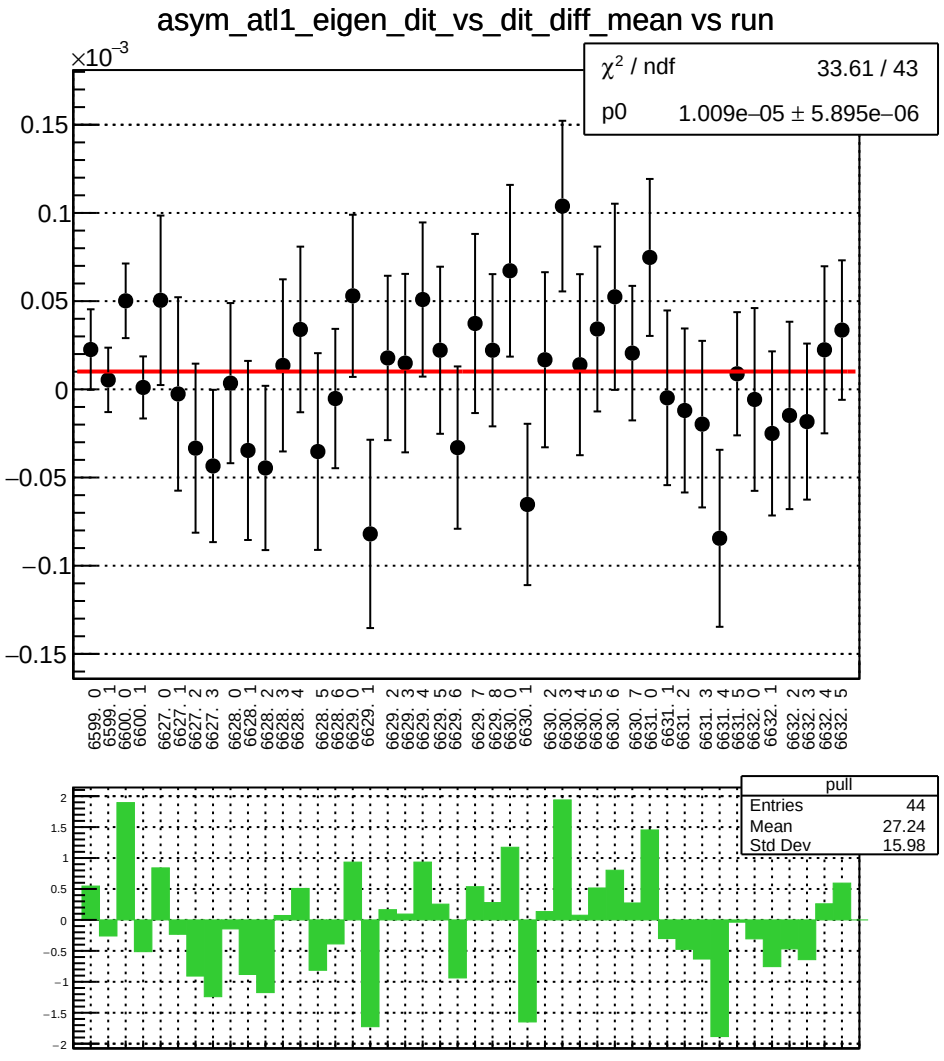

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 4.988e+05 / 44
p0 2.844e−11 ± 4.591e−14
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

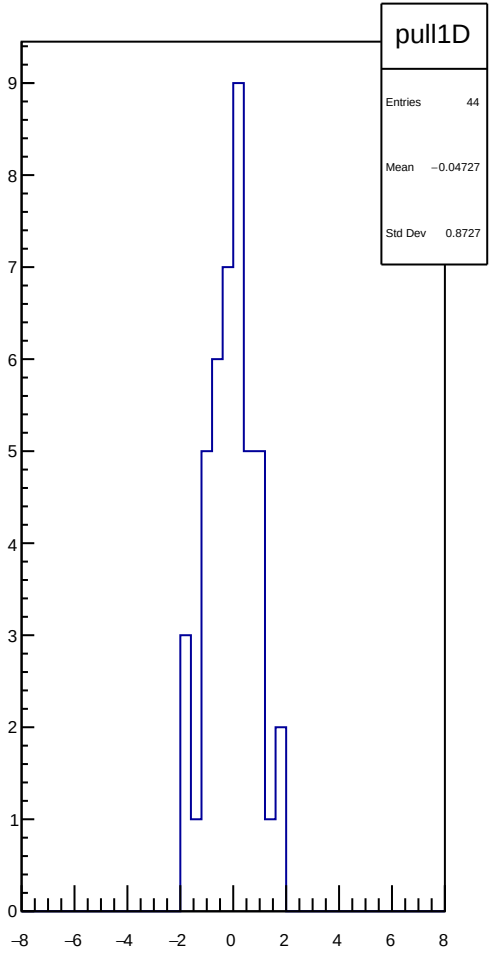

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 51.31 / 43
p0 0.3524 ± 0.1766
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 44
Mean −21.17
Std Dev 0
pull1D
Entries 44
Mean −0.04803
Std Dev 1.079

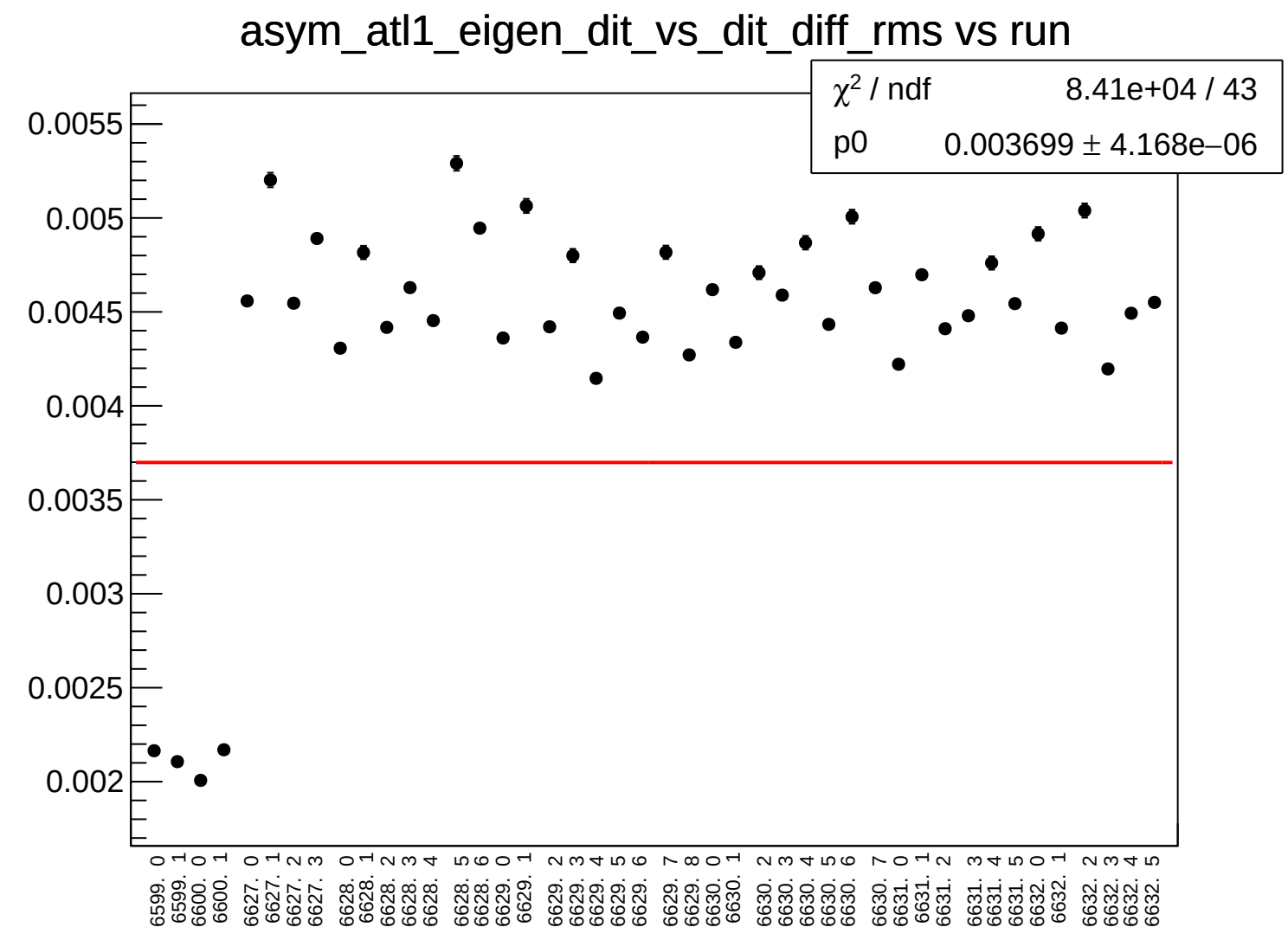

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 4.607e+04 / 43
p0 113.4 ± 0.1249
240
220
200
180
160
140
120
100
80
60
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

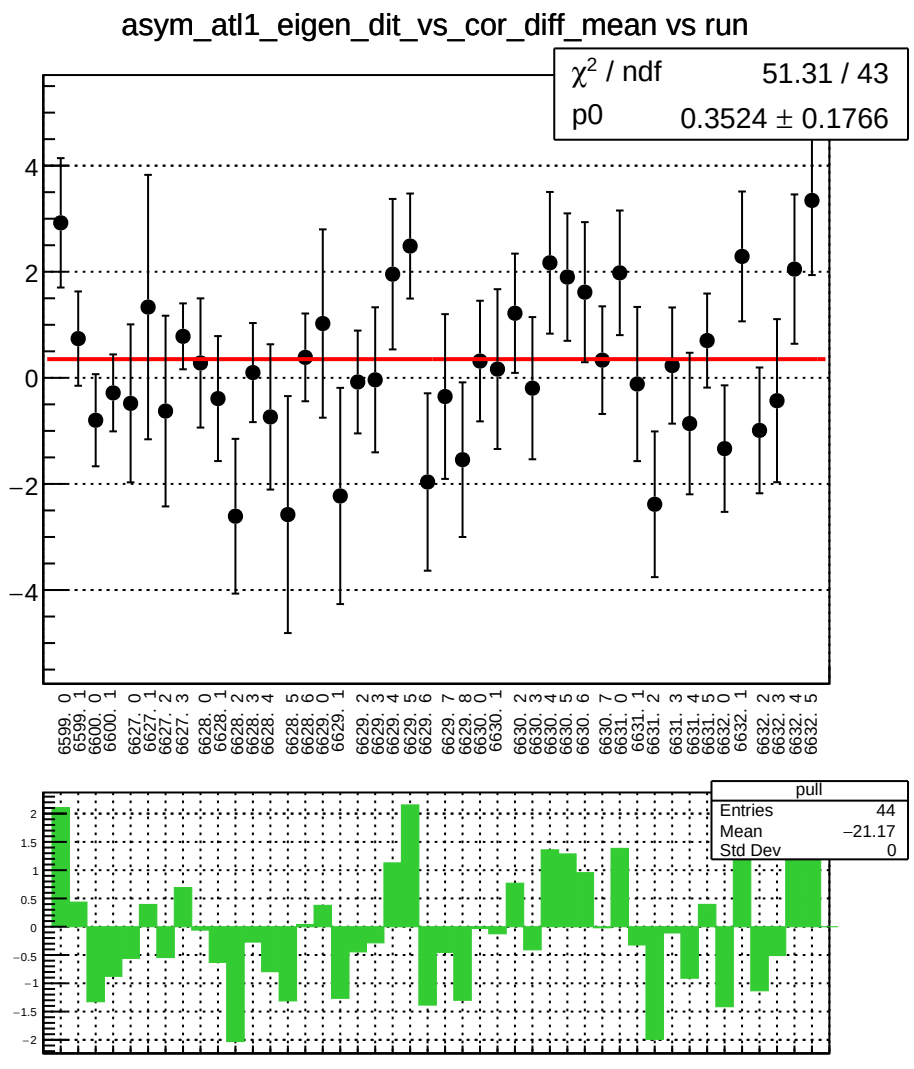

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.31 / 43
p0 0.3524 ± 0.1766
4
2
0
−2
−4
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 44
Mean −21.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 44
Mean −0.04803
Std Dev 1.079
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

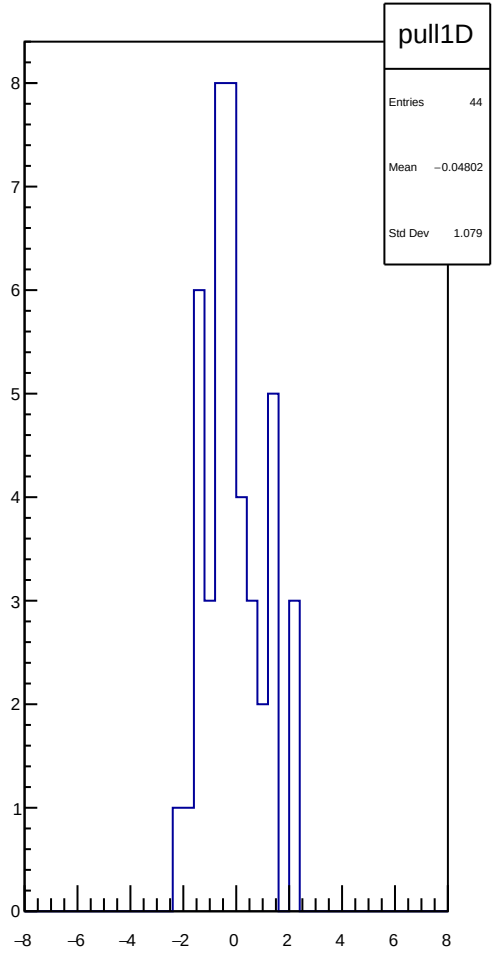

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.607e+04 / 43
p0 113.4 ± 0.1249
240
220
200
180
160
140
120
100
80
60
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

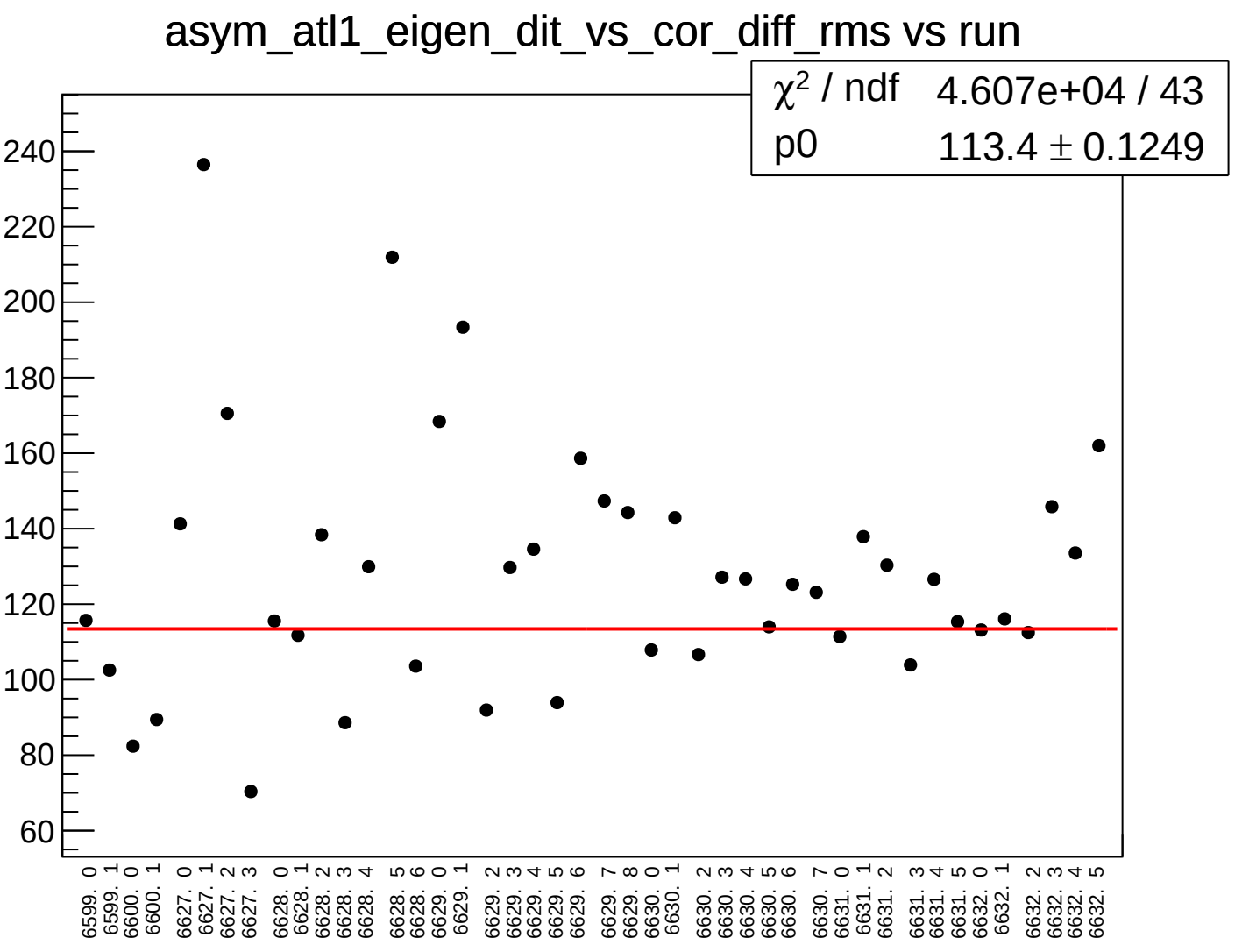

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 33.61 / 43
p0 1.009e−05 ± 5.895e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 44
Mean 27.24
Std Dev 15.98
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

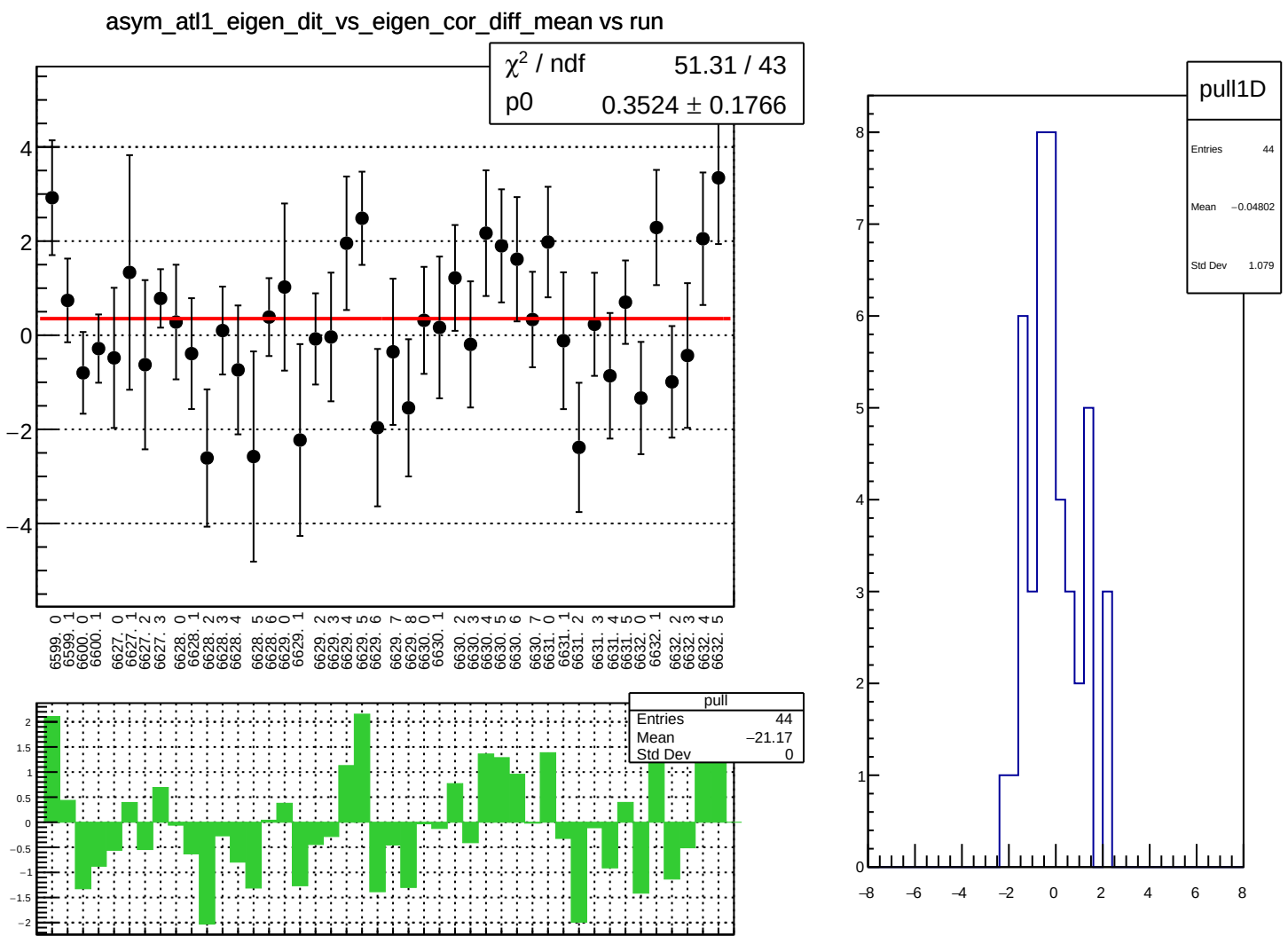

pull1D
Entries 44
Mean −0.04727
Std Dev 0.8727
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

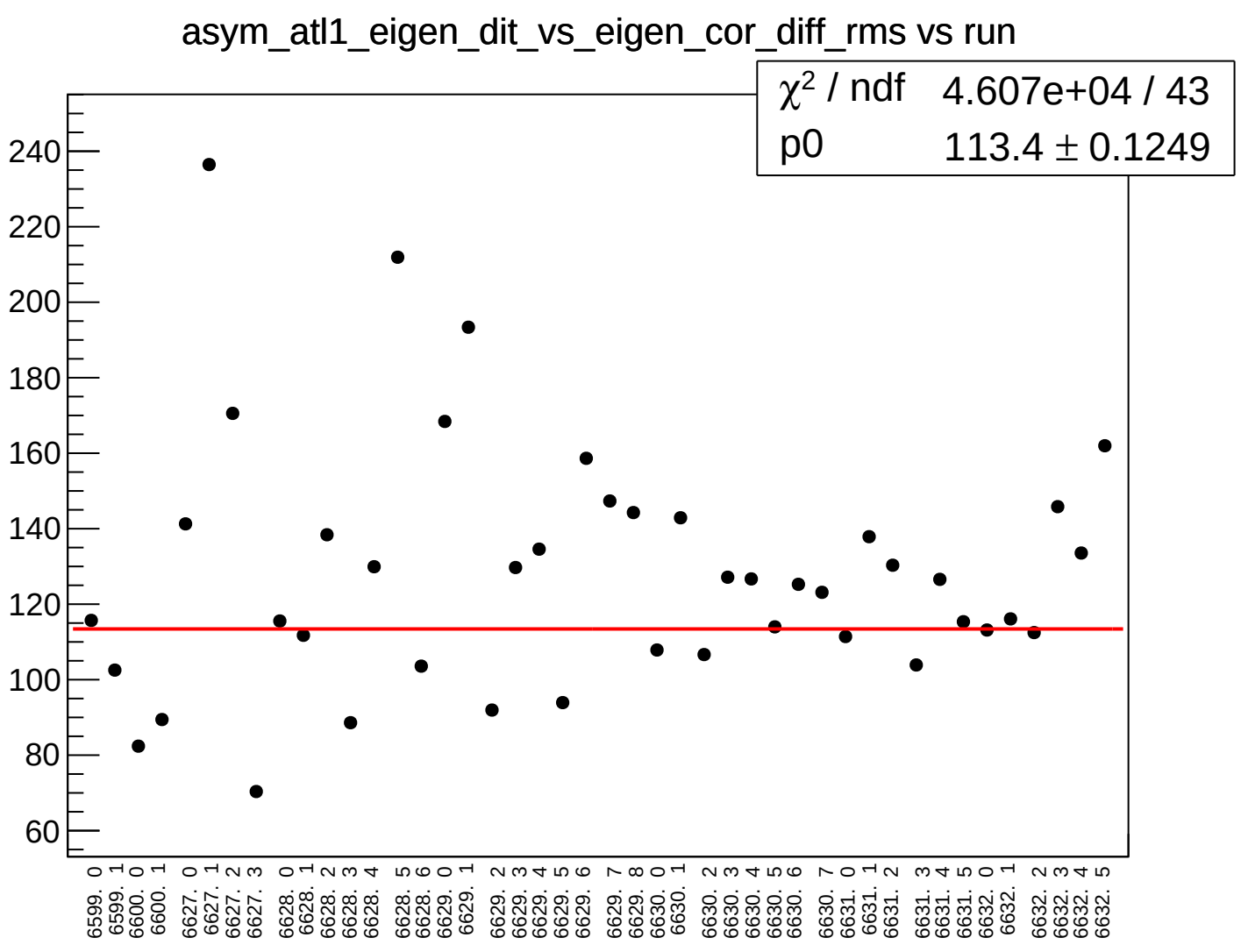

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.41e+04 / 43
p0 0.003699 ± 4.168e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 51.31 / 43
p0 0.3524 ± 0.1766
pull
Entries 44
Mean −21.17
Std Dev 0


pull1D
Entries 44
Mean −0.04802
Std Dev 1.079


asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.607e+04 / 43
p0 113.4 ± 0.1249
240
220
200
180
160
140
120
100
80
60
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.31 / 43
p0 0.3524 ± 0.1766
pull
Entries 44
Mean −21.17
Std Dev 0
pull1D
Entries 44
Mean −0.04802
Std Dev 1.079


asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.607e+04 / 43
p0 113.4 ± 0.1249
240
220
200
180
160
140
120
100
80
60
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
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6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
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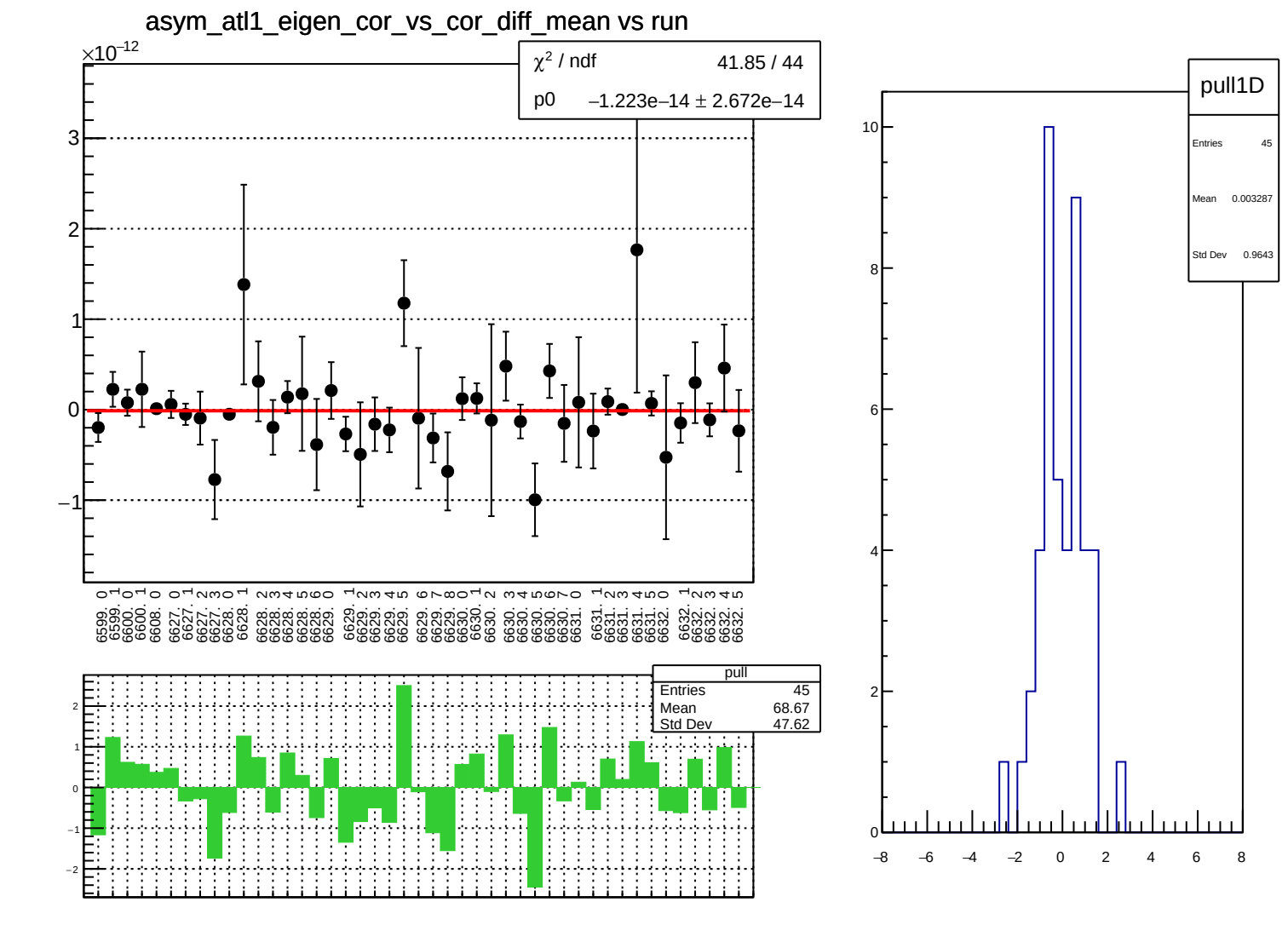
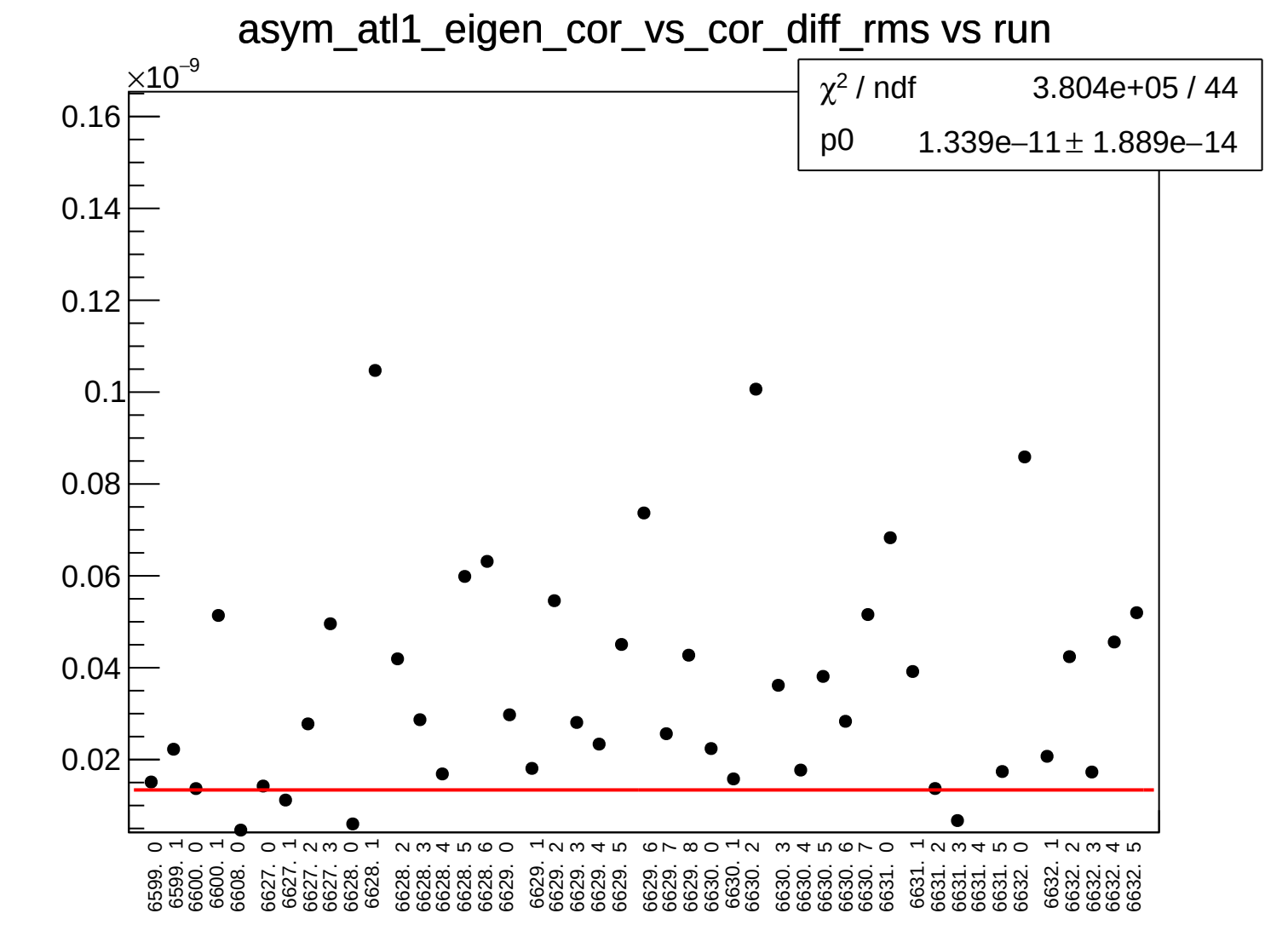
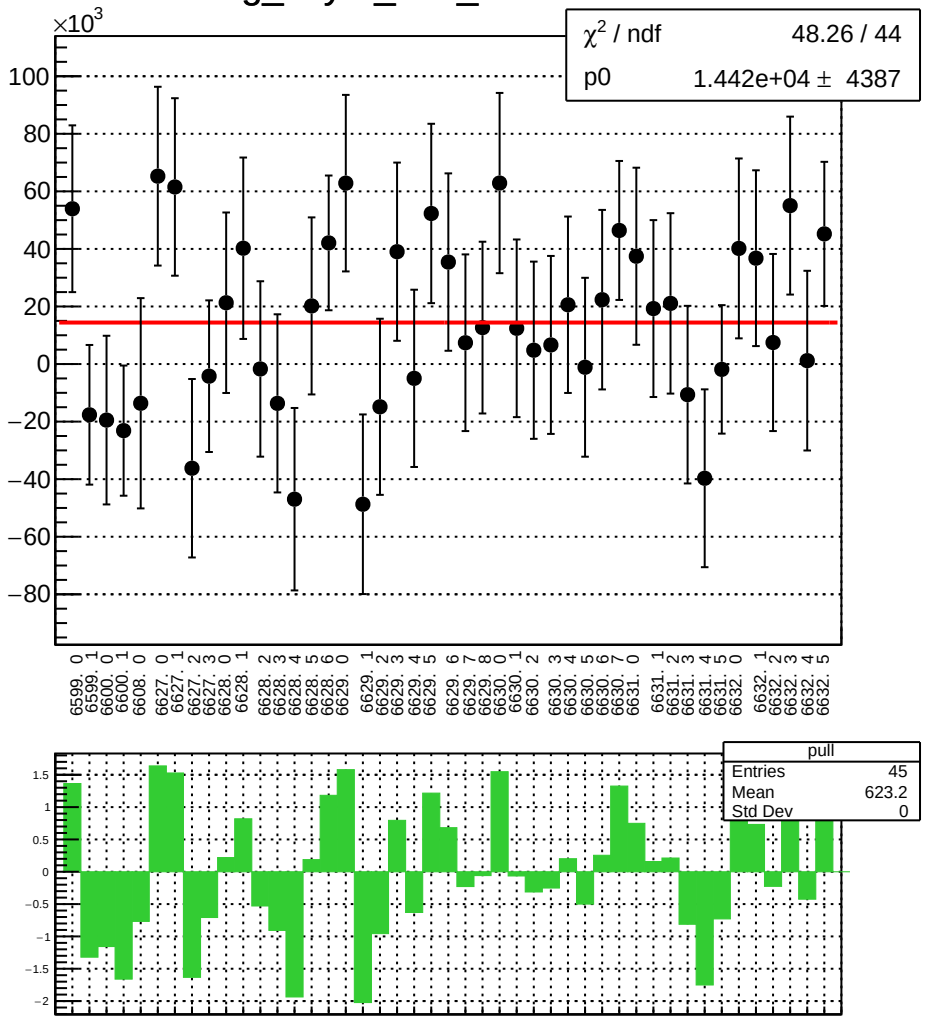
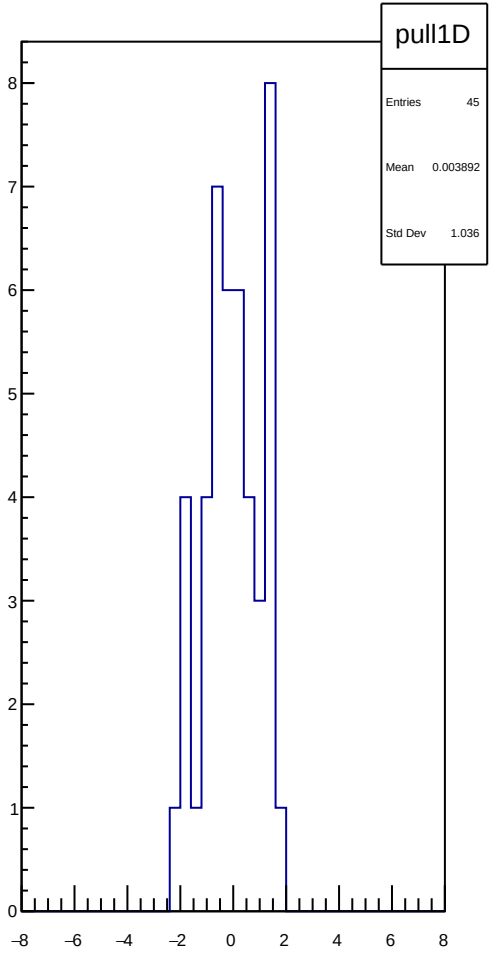
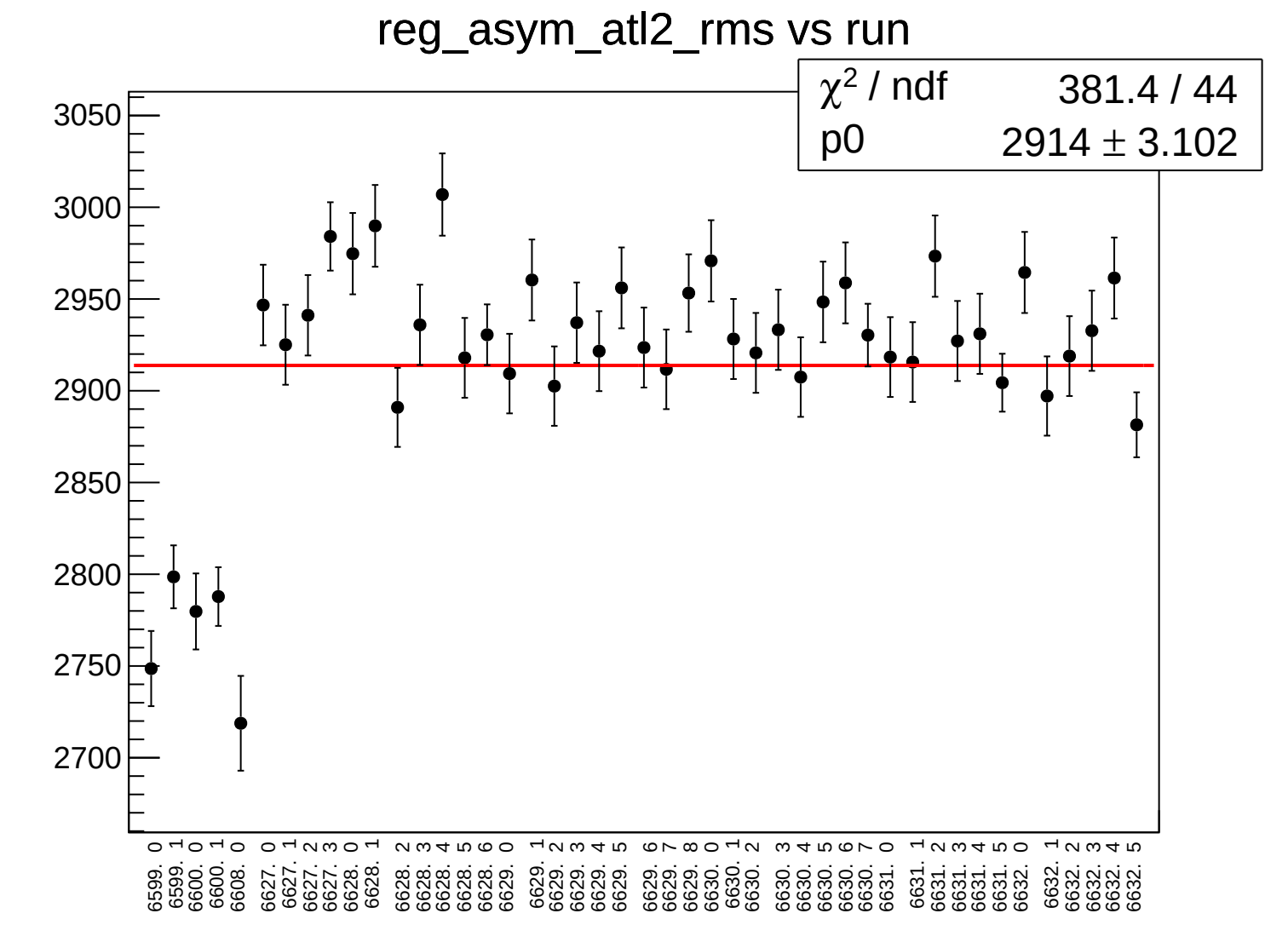
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

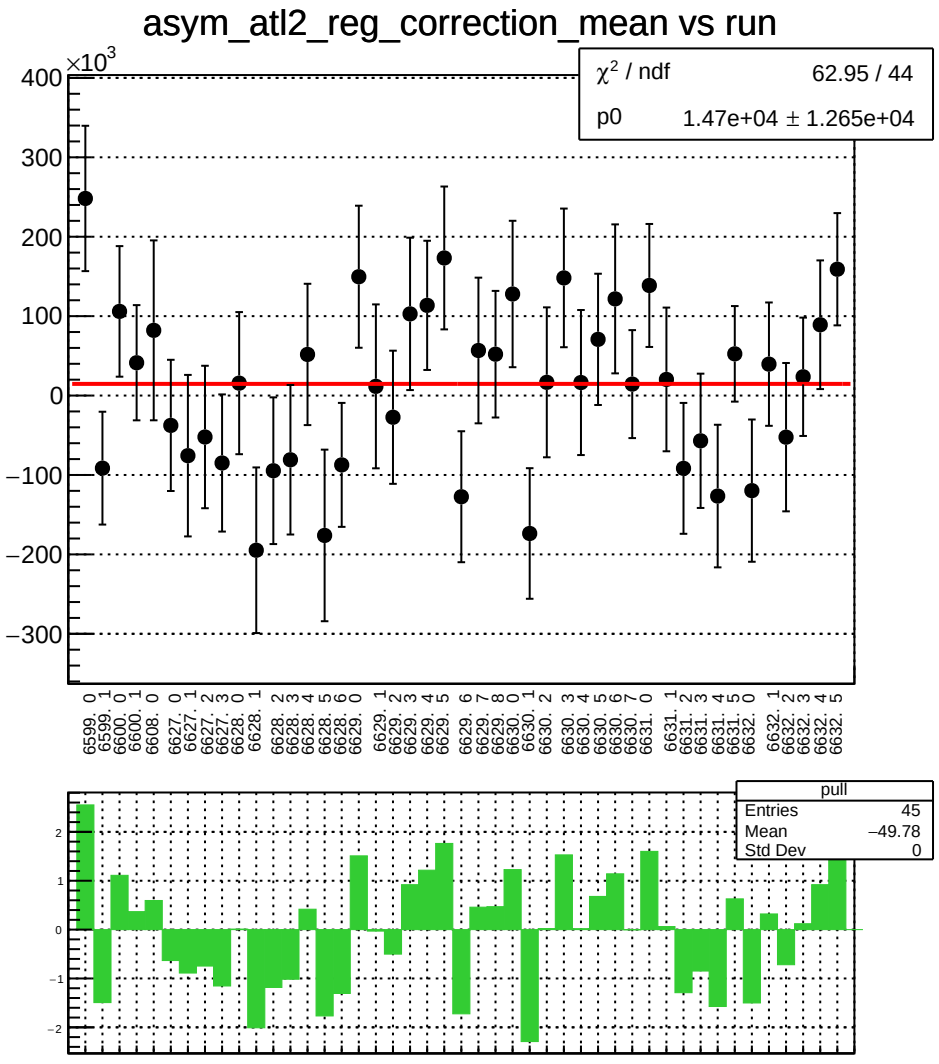

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 41.85 / 44
p0 −1.223e−14 ± 2.672e−14
3
2
1
0
−1
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 68.67
Std Dev 47.62
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.003287
Std Dev 0.9643
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

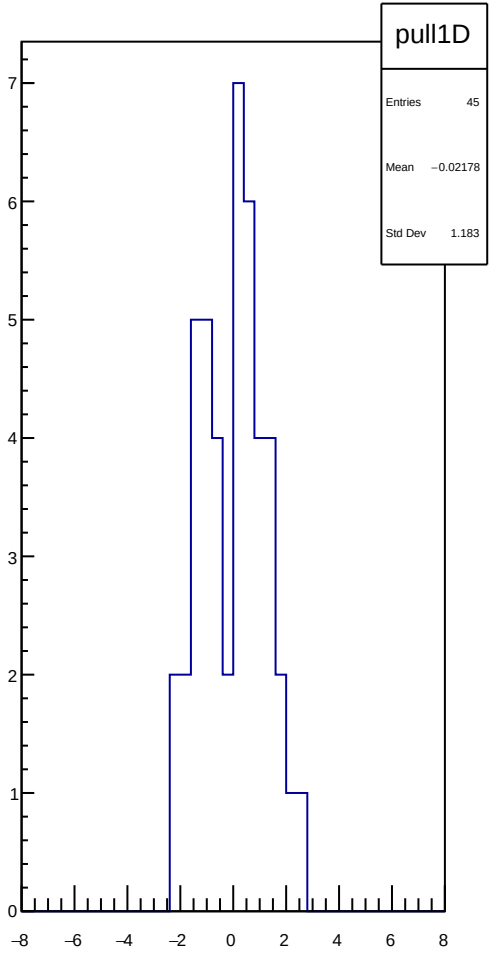

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.804e+05 / 44
p0 1.339e−11 ± 1.889e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

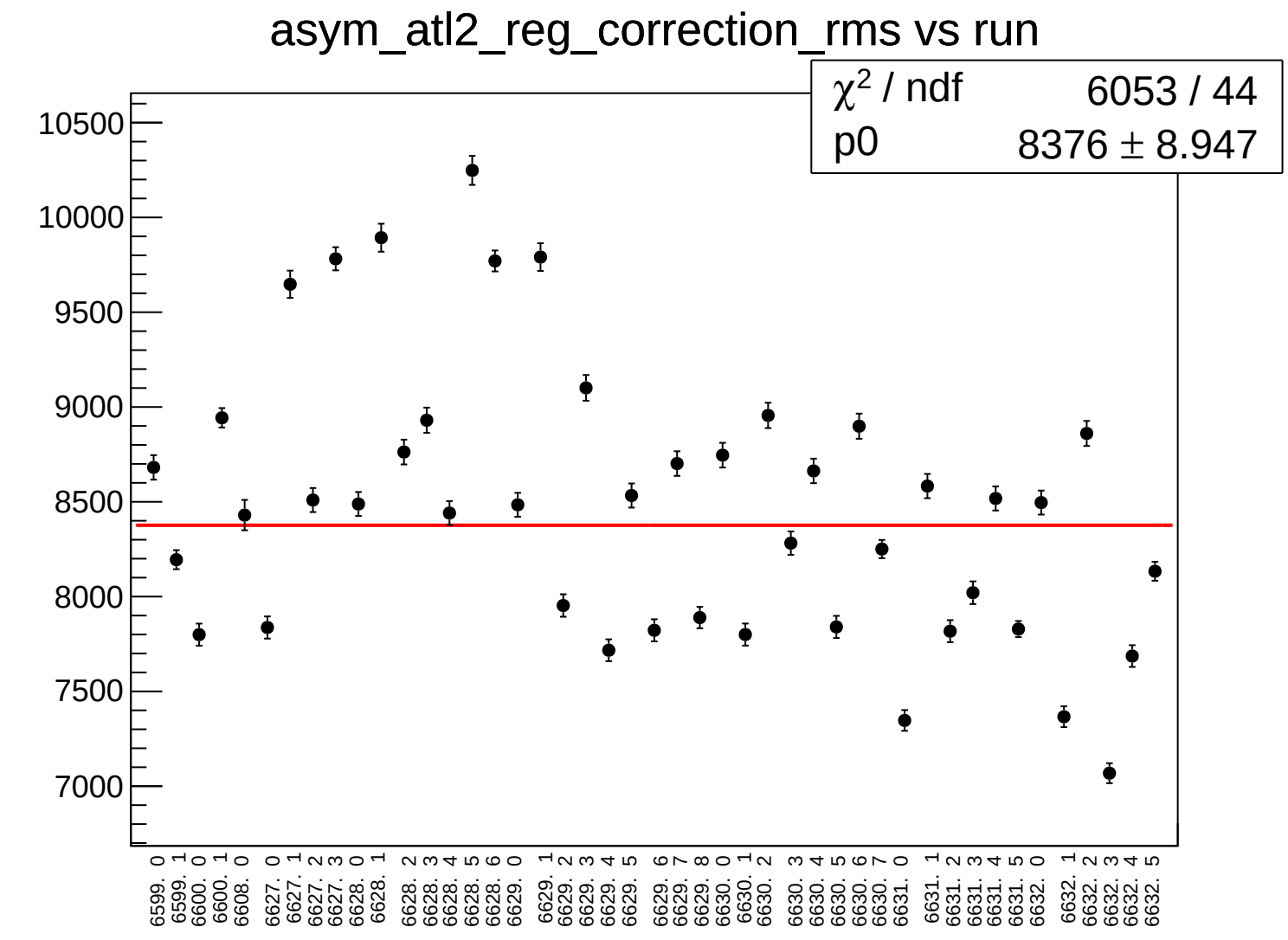

reg_asym_atl2_mean vs run
×10^3
χ² / ndf 48.26 / 44
p0 1.442e+04 ± 4387
100
80
60
40
20
0
−20
−40
−60
−80
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 623.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

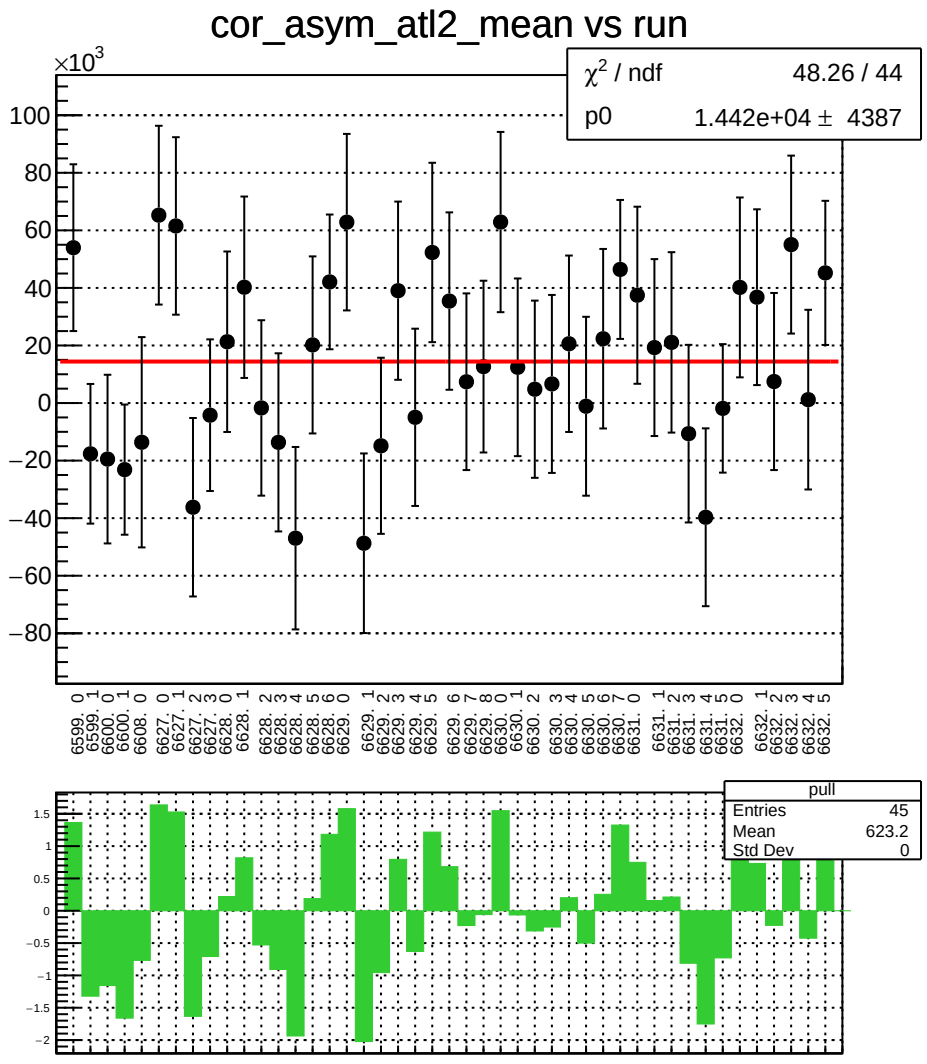

pull1D
Entries 45
Mean 0.003892
Std Dev 1.036
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

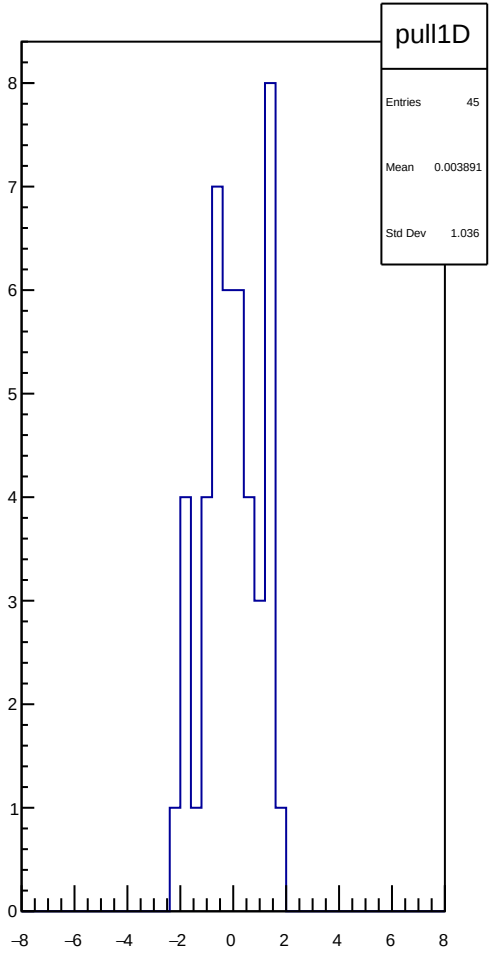

reg_asym_atl2_rms vs run
χ² / ndf 381.4 / 44
p0 2914 ± 3.102
3050
3000
2950
2900
2850
2800
2750
2700
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

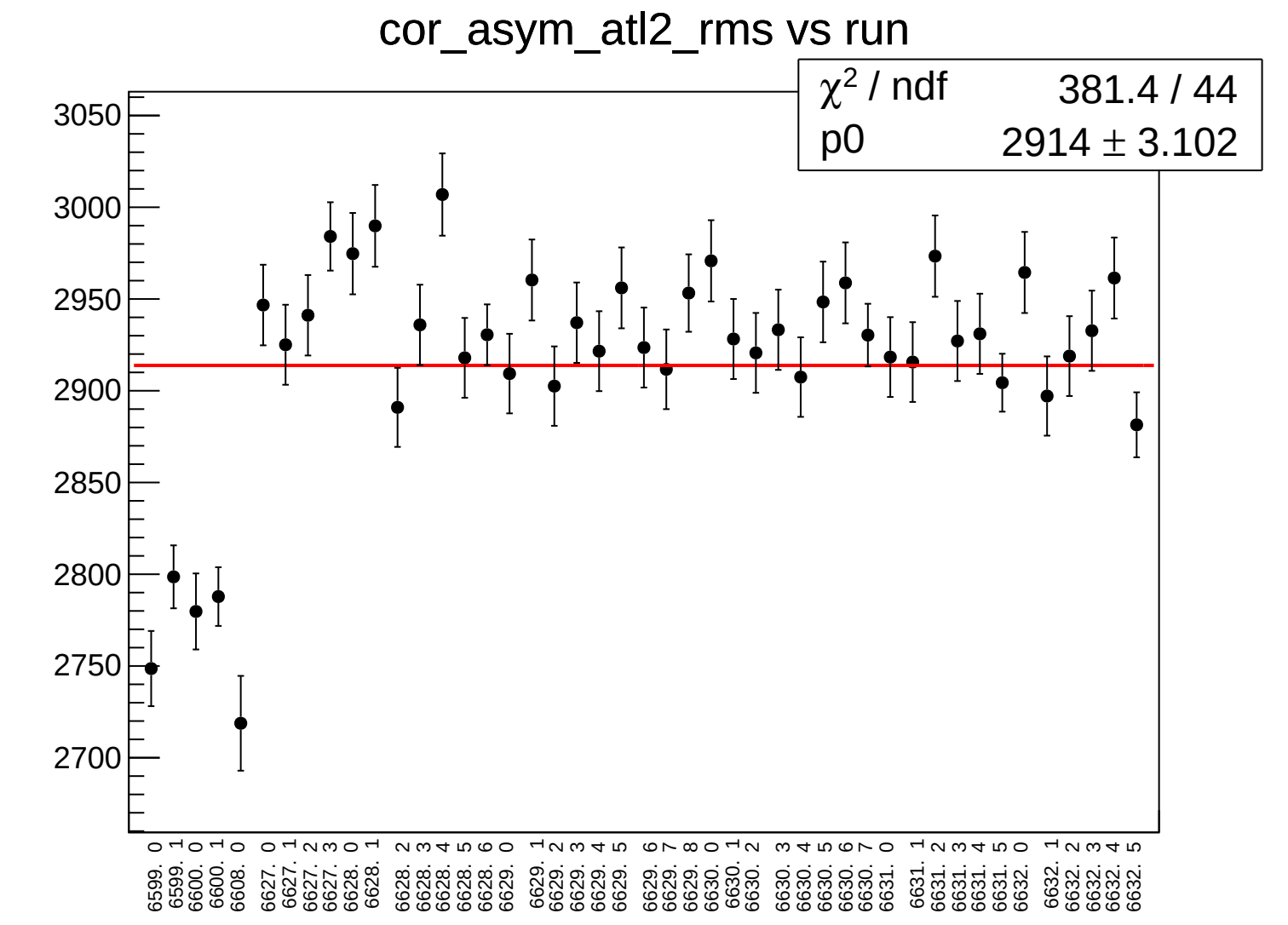

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 62.95 / 44
p0 1.47e+04 ± 1.265e+04
pull
Entries 45
Mean −49.78
Std Dev 0

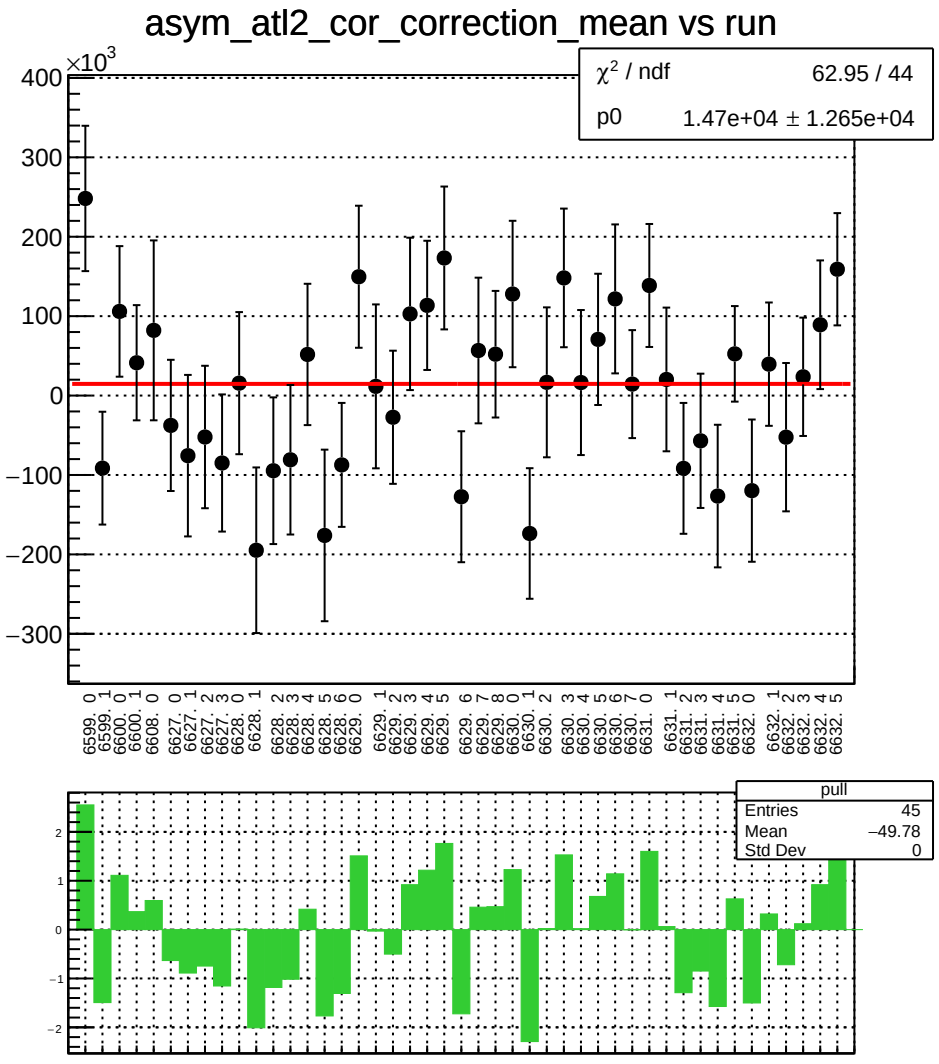

pull1D
Entries 45
Mean −0.02178
Std Dev 1.183

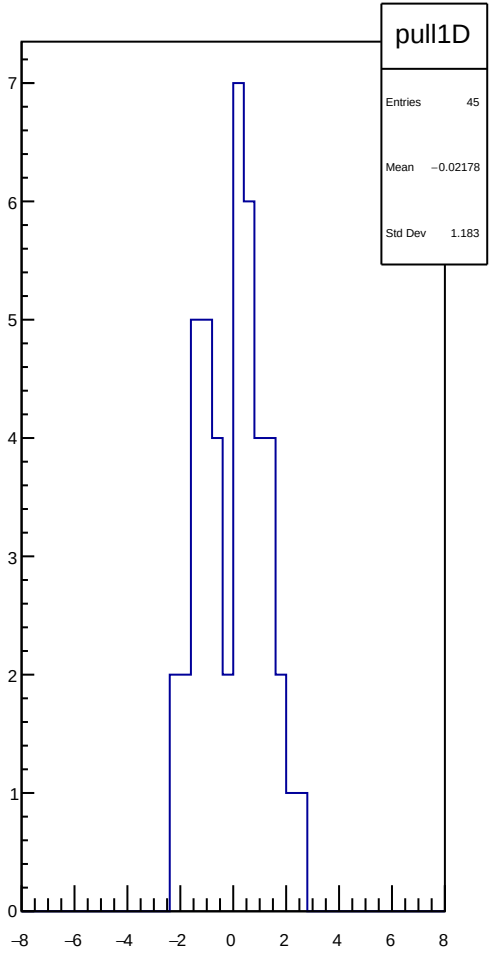

asym_atl2_reg_correction_rms vs run
χ² / ndf 6053 / 44
p0 8376 ± 8.947
10500
10000
9500
9000
8500
8000
7500
7000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

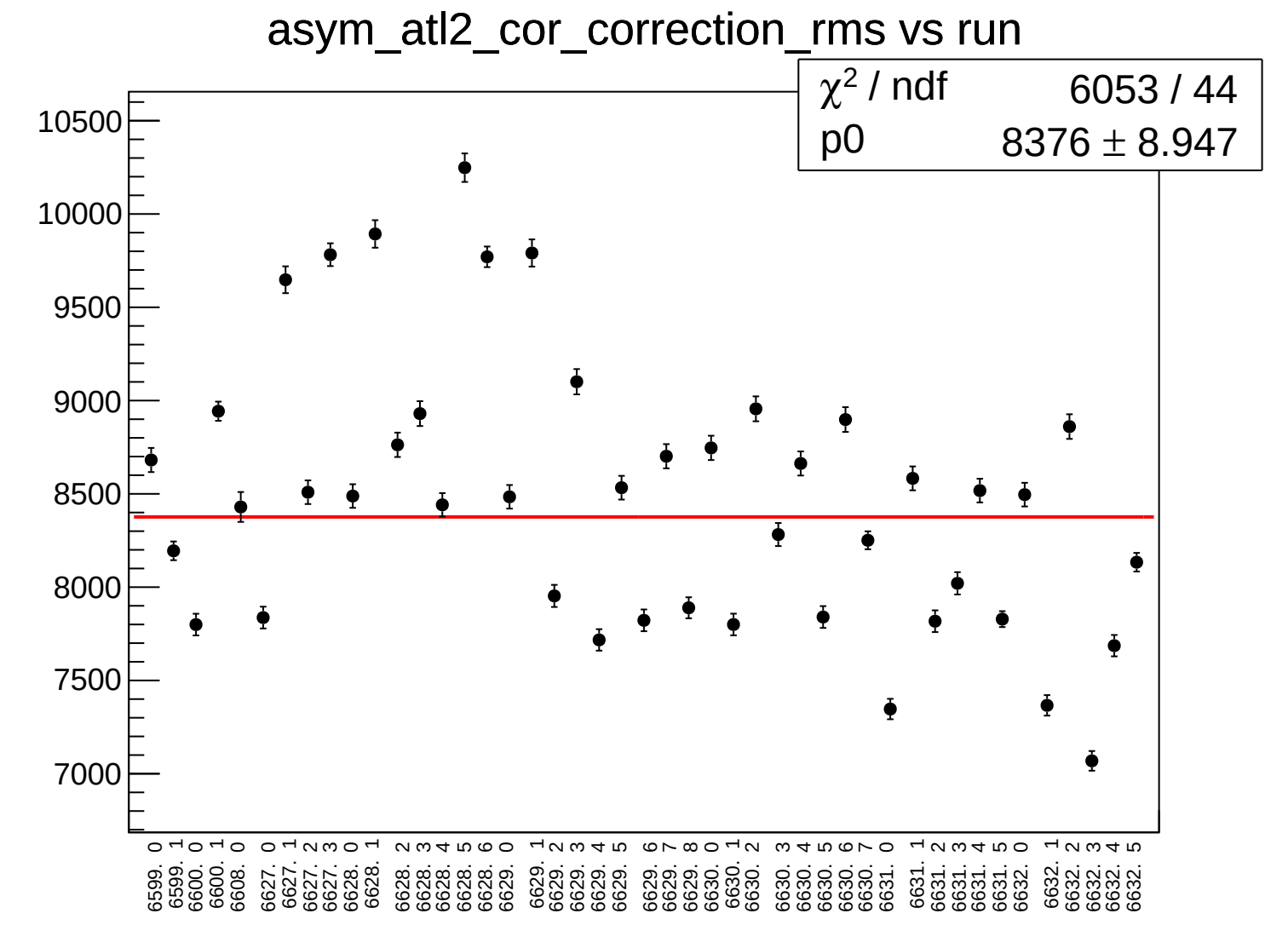

cor_asym_atl2_mean vs run
×10^3
χ² / ndf 48.26 / 44
p0 1.442e+04 ± 4387
100
80
60
40
20
0
−20
−40
−60
−80
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 623.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

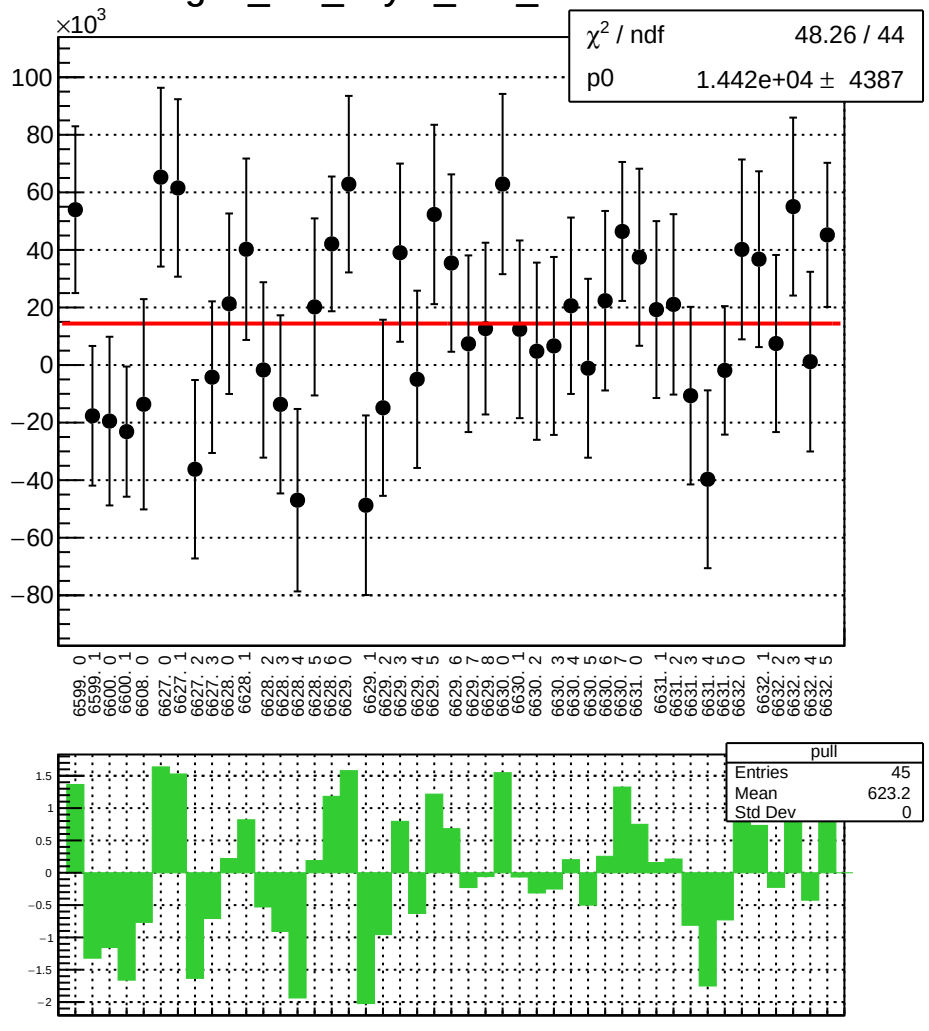

pull1D
Entries 45
Mean 0.003891
Std Dev 1.036
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

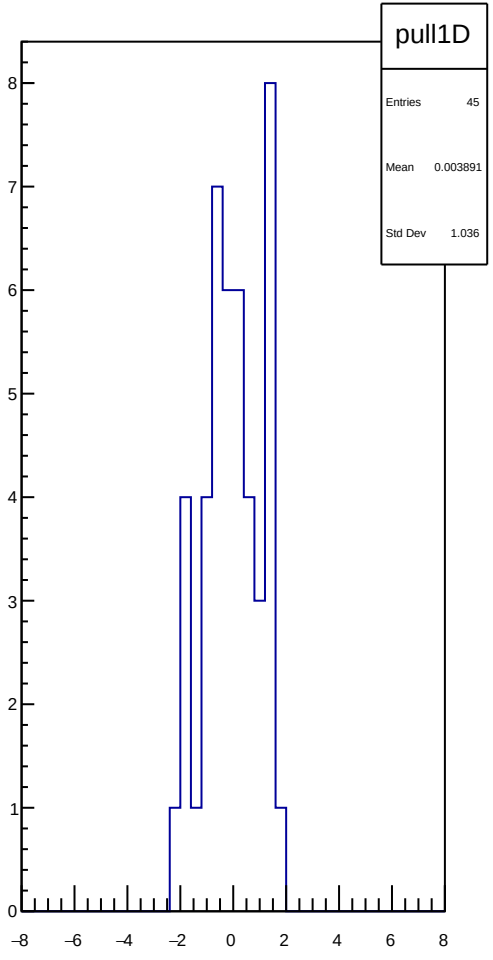

cor_asym_atl2_rms vs run
χ² / ndf 381.4 / 44
p0 2914 ± 3.102
3050
3000
2950
2900
2850
2800
2750
2700
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

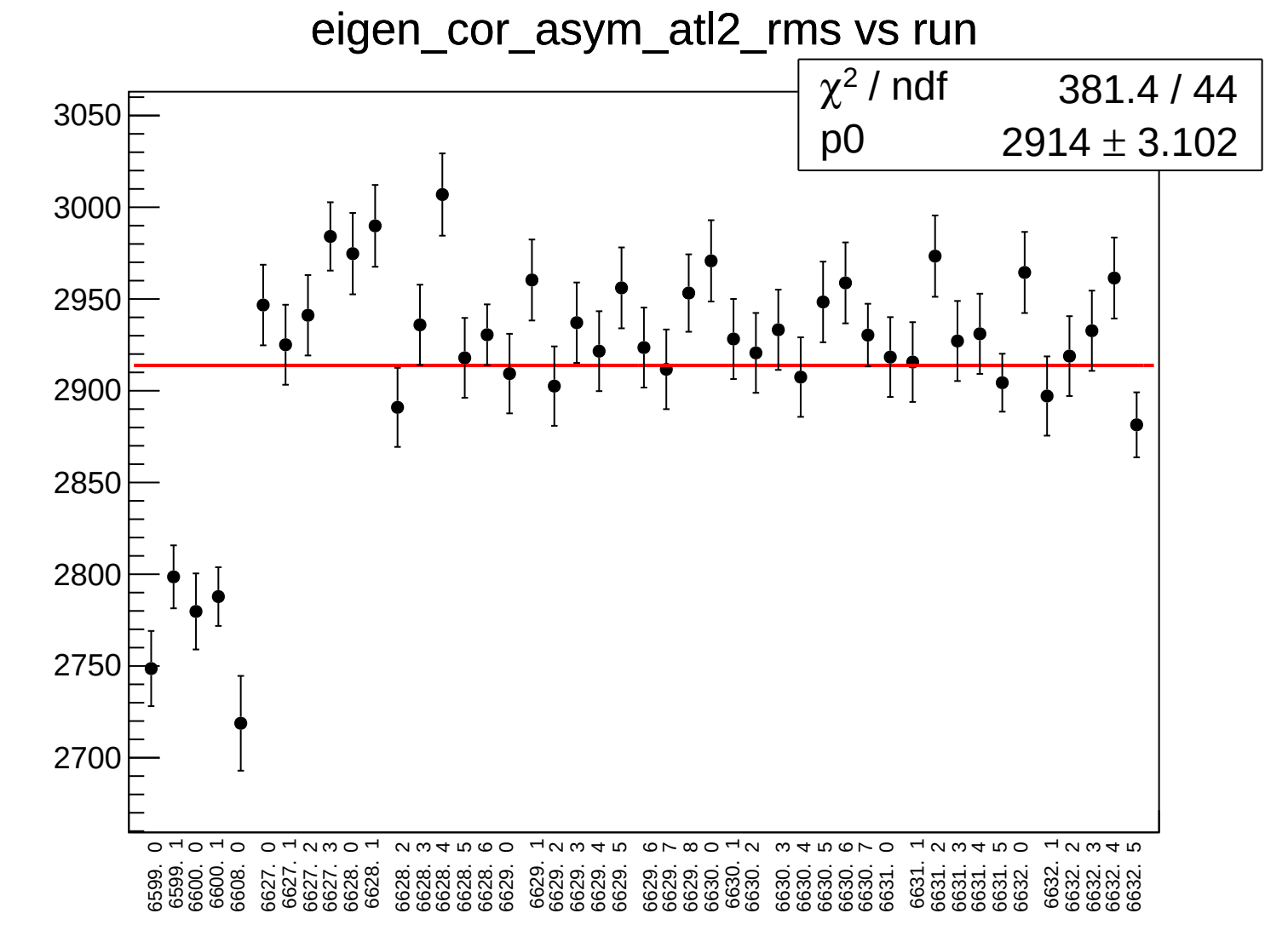

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 62.95 / 44
p0 1.47e+04 ± 1.265e+04
pull
Entries 45
Mean −49.78
Std Dev 0

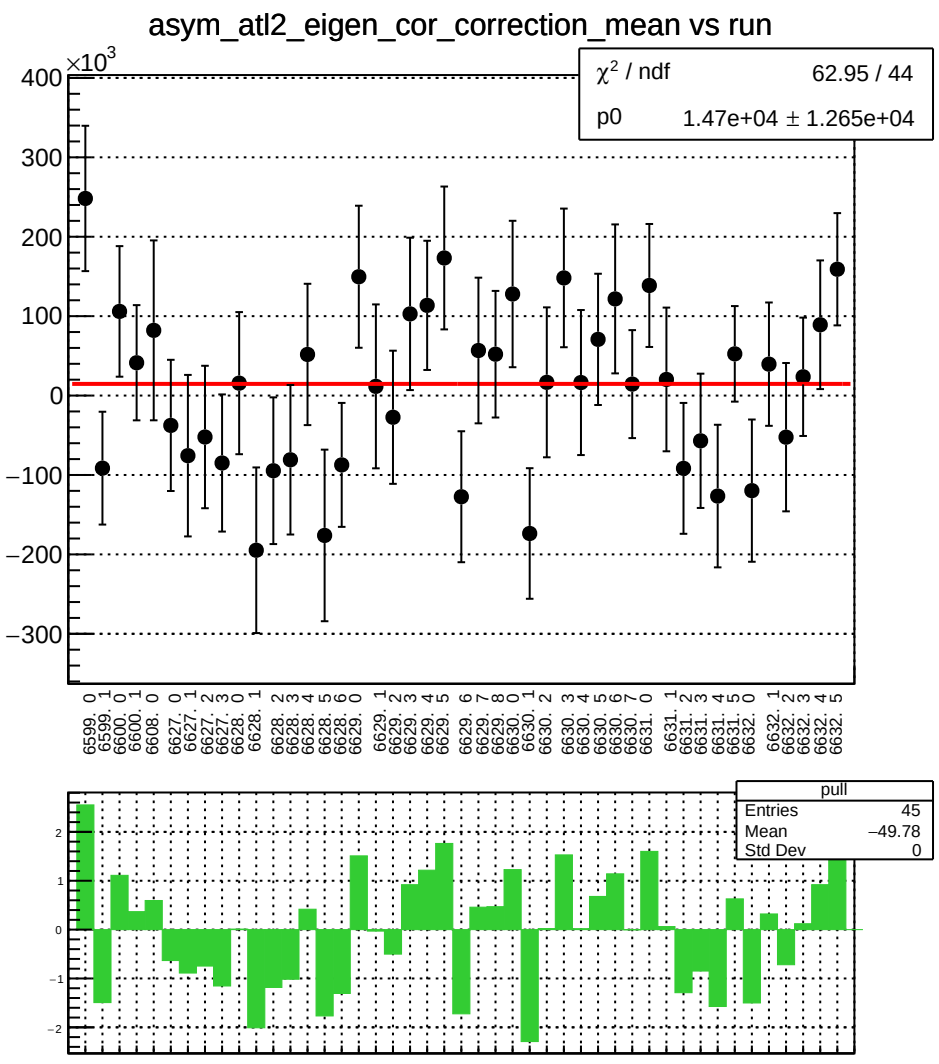

pull1D
Entries 45
Mean −0.02178
Std Dev 1.183


asym_atl2_cor_correction_rms vs run
χ² / ndf 6053 / 44
p0 8376 ± 8.947
10500
10000
9500
9000
8500
8000
7500
7000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_cor_asym_atl2_mean vs run
×10^3
χ² / ndf 48.26 / 44
p0 1.442e+04 ± 4387
100
80
60
40
20
0
−20
−40
−60
−80
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 623.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.003891
Std Dev 1.036
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atl2_rms vs run
χ² / ndf 381.4 / 44
p0 2914 ± 3.102
3050
3000
2950
2900
2850
2800
2750
2700
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 62.95 / 44
p0 1.47e+04 ± 1.265e+04
400
300
200
100
0
−100
−200
−300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
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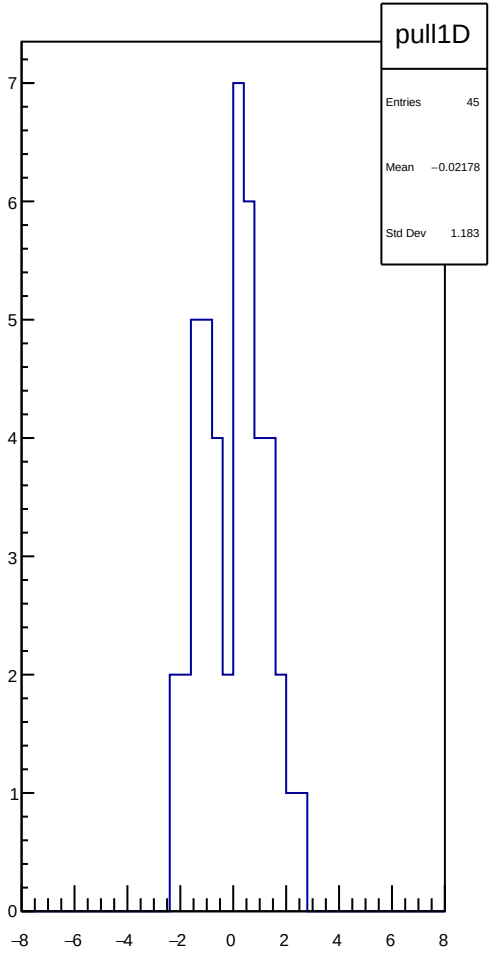
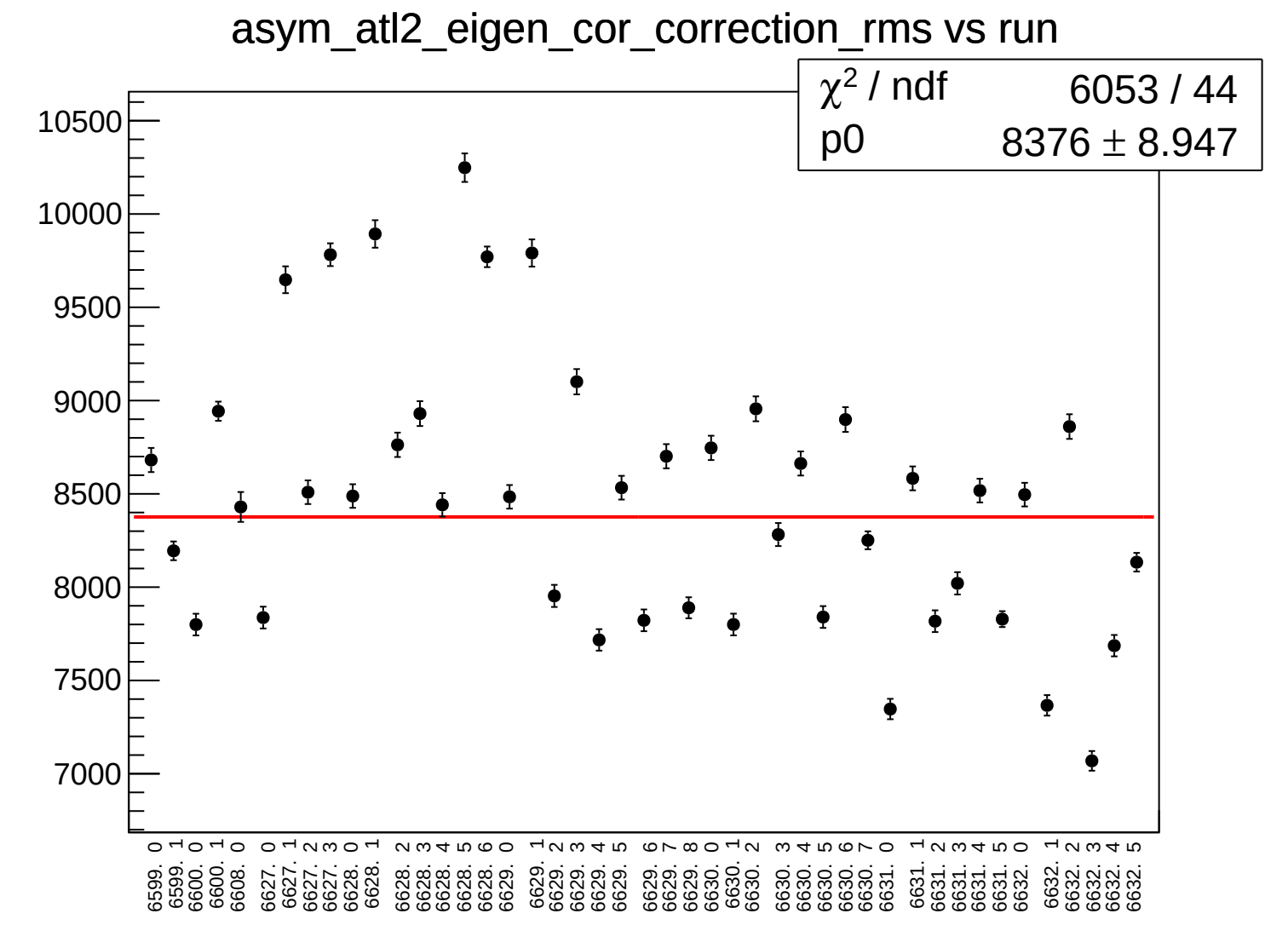
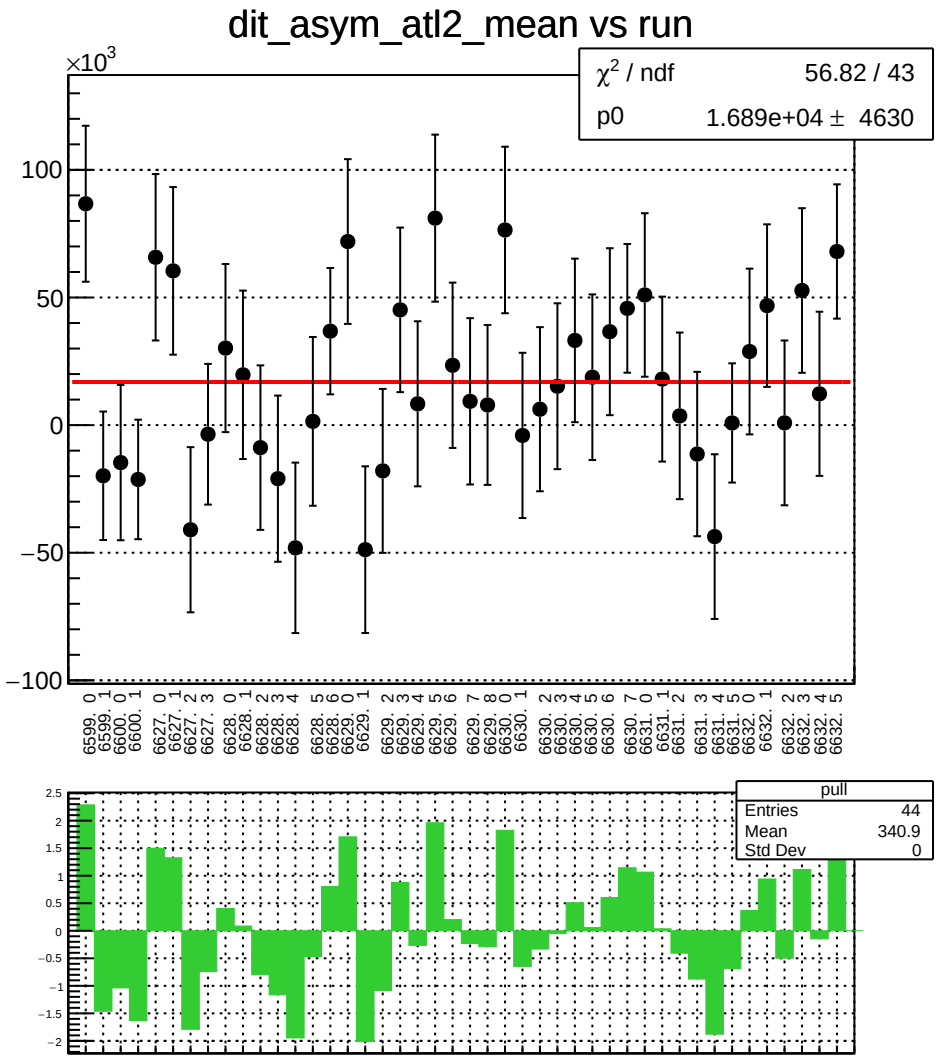
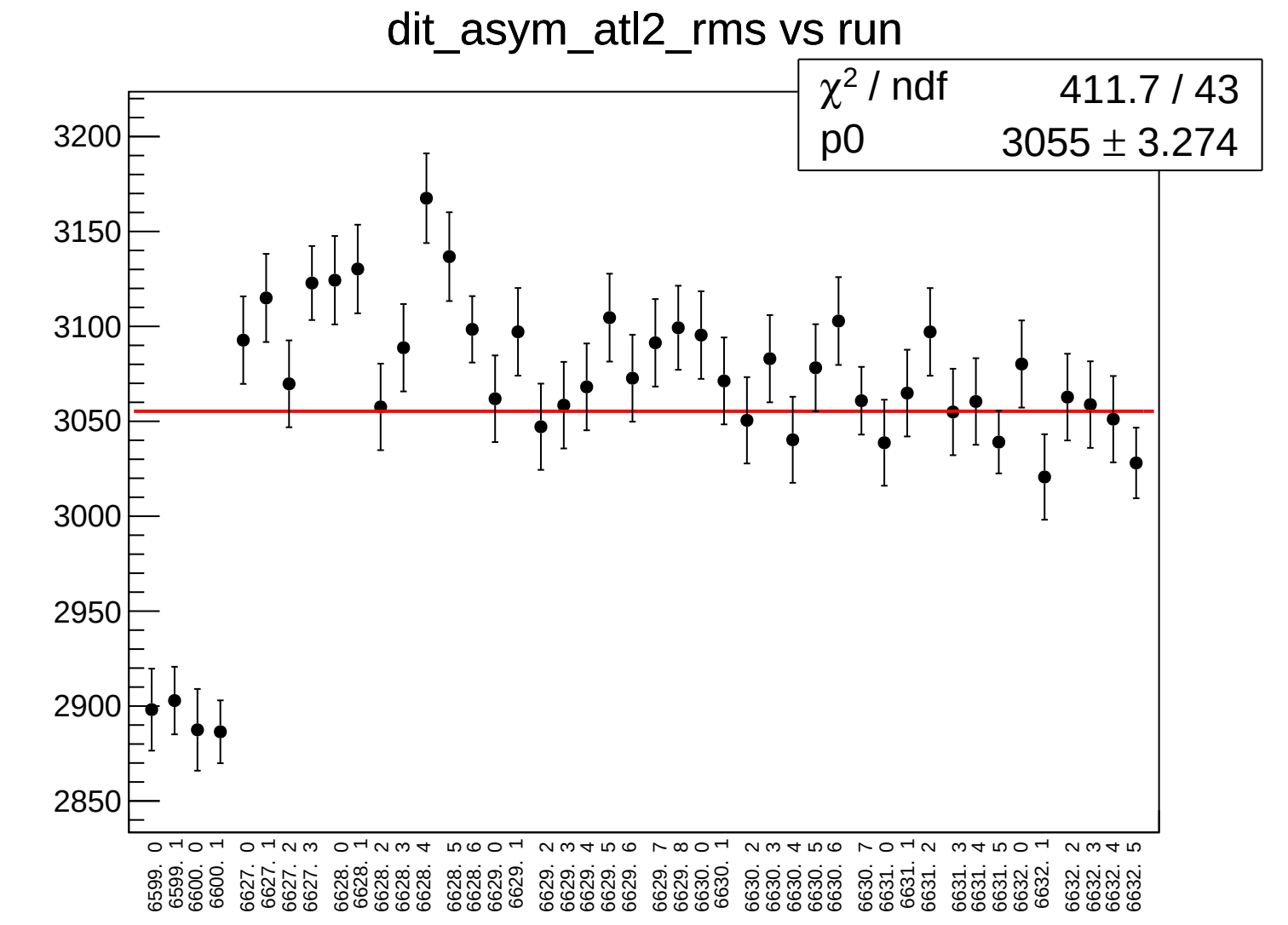
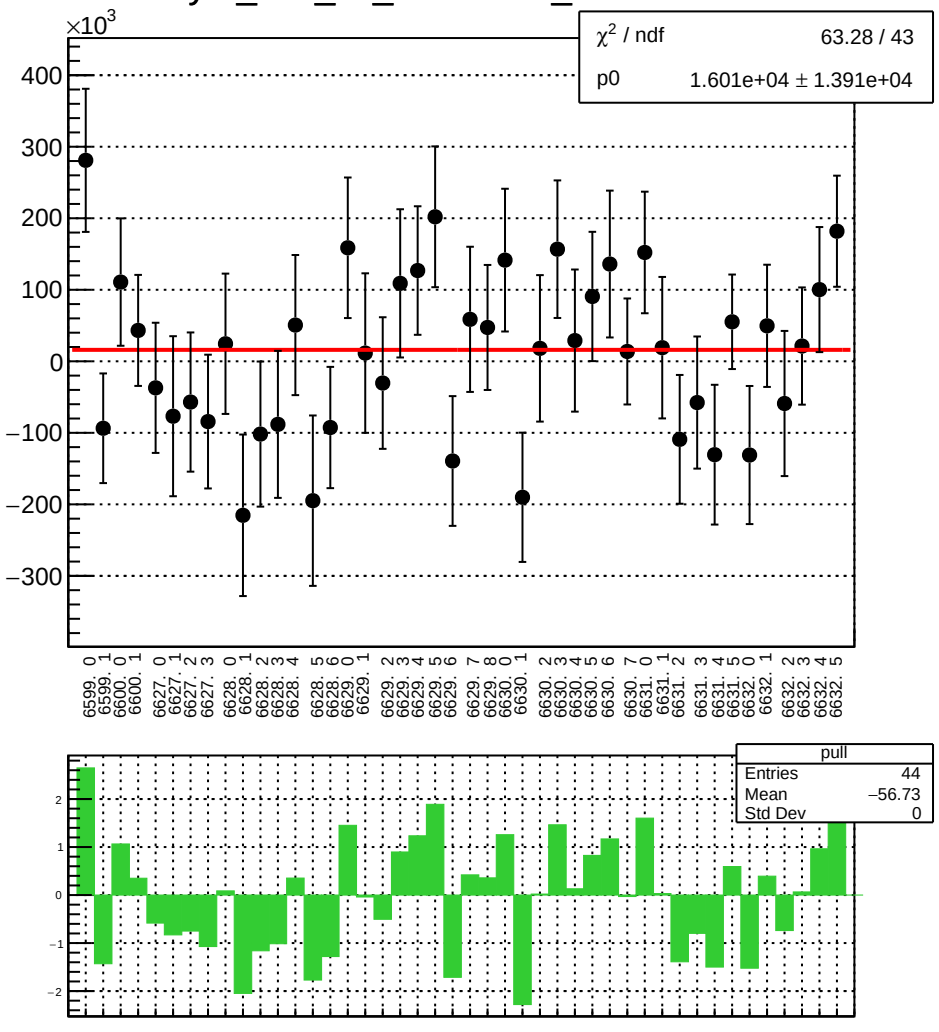
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −49.78
Std Dev 0
2
1
0
−1
−2

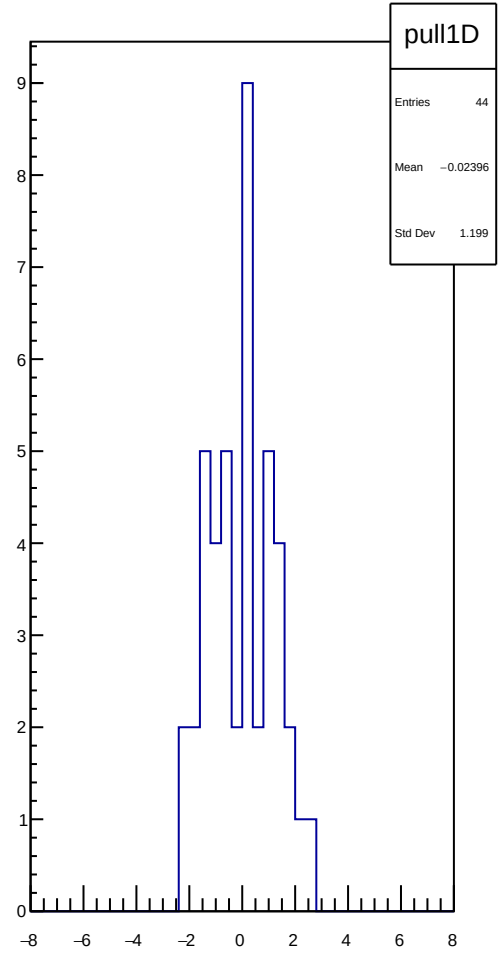

pull1D
Entries 45
Mean −0.02178
Std Dev 1.183
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

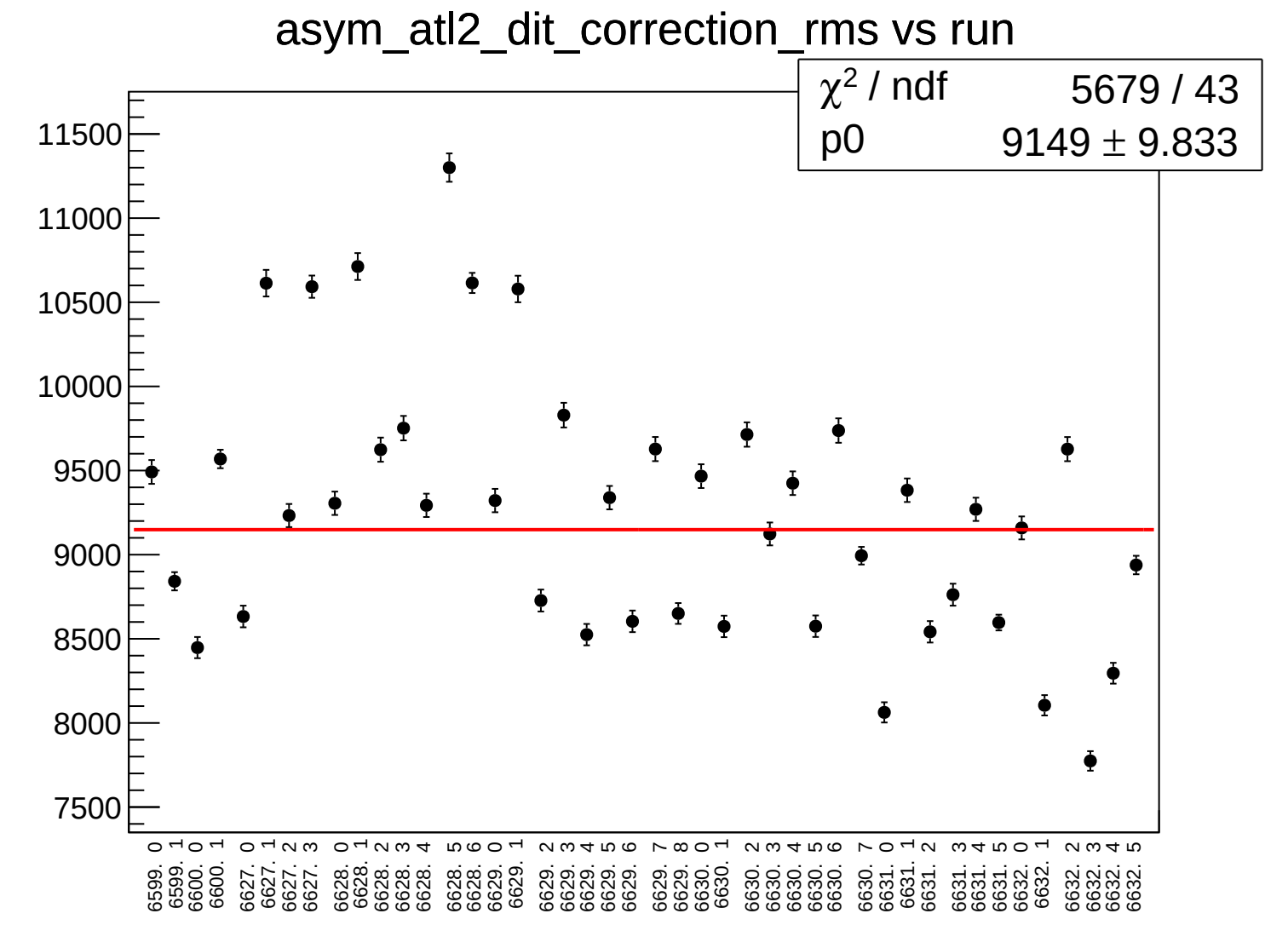

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 6053 / 44
p0 8376 ± 8.947
10500
10000
9500
9000
8500
8000
7500
7000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

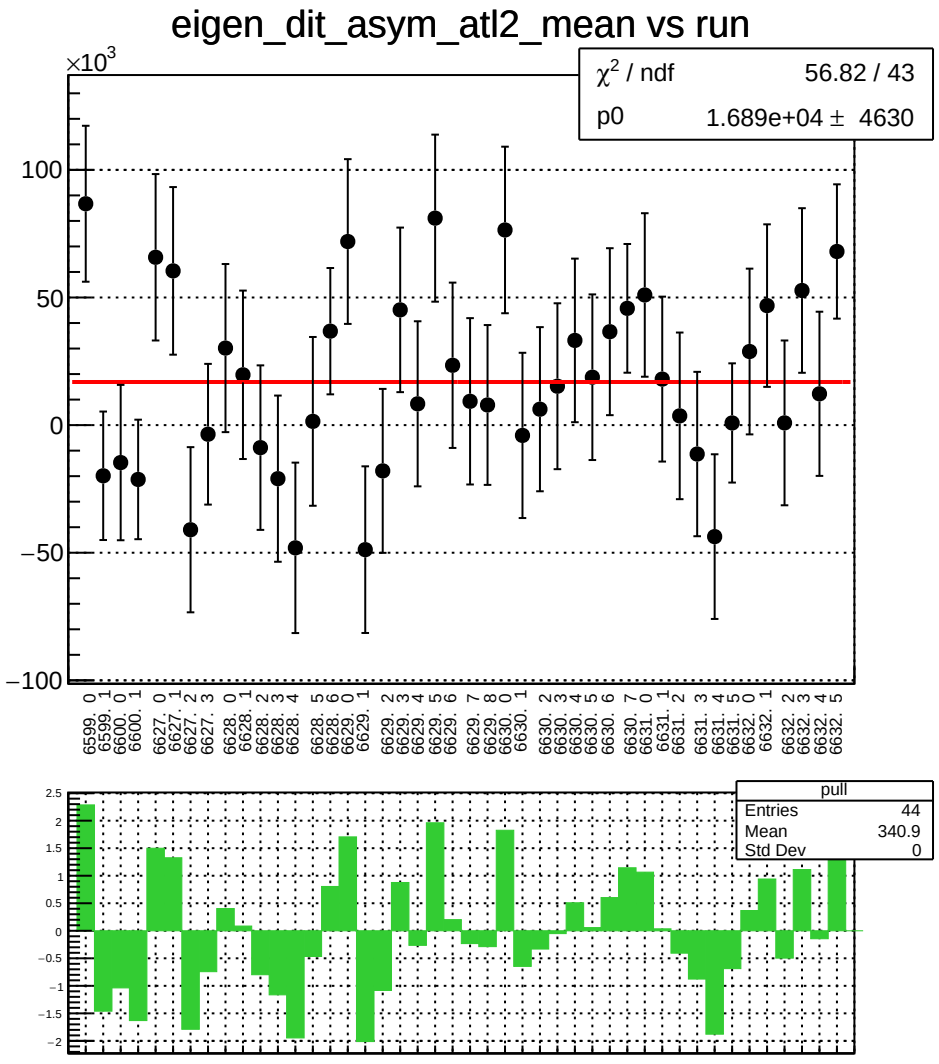

dit_asym_atl2_mean vs run
×10^3
χ² / ndf 56.82 / 43
p0 1.689e+04 ± 4630
100
50
0
−50
−100
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 44
Mean 340.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 44
Mean 0.007313
Std Dev 1.136
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

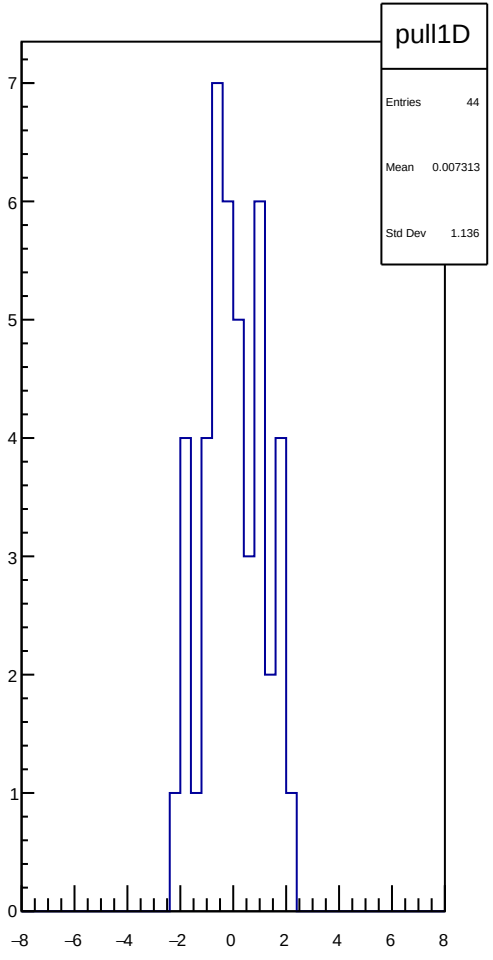

dit_asym_atl2_rms vs run
χ² / ndf 411.7 / 43
p0 3055 ± 3.274
3200
3150
3100
3050
3000
2950
2900
2850
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

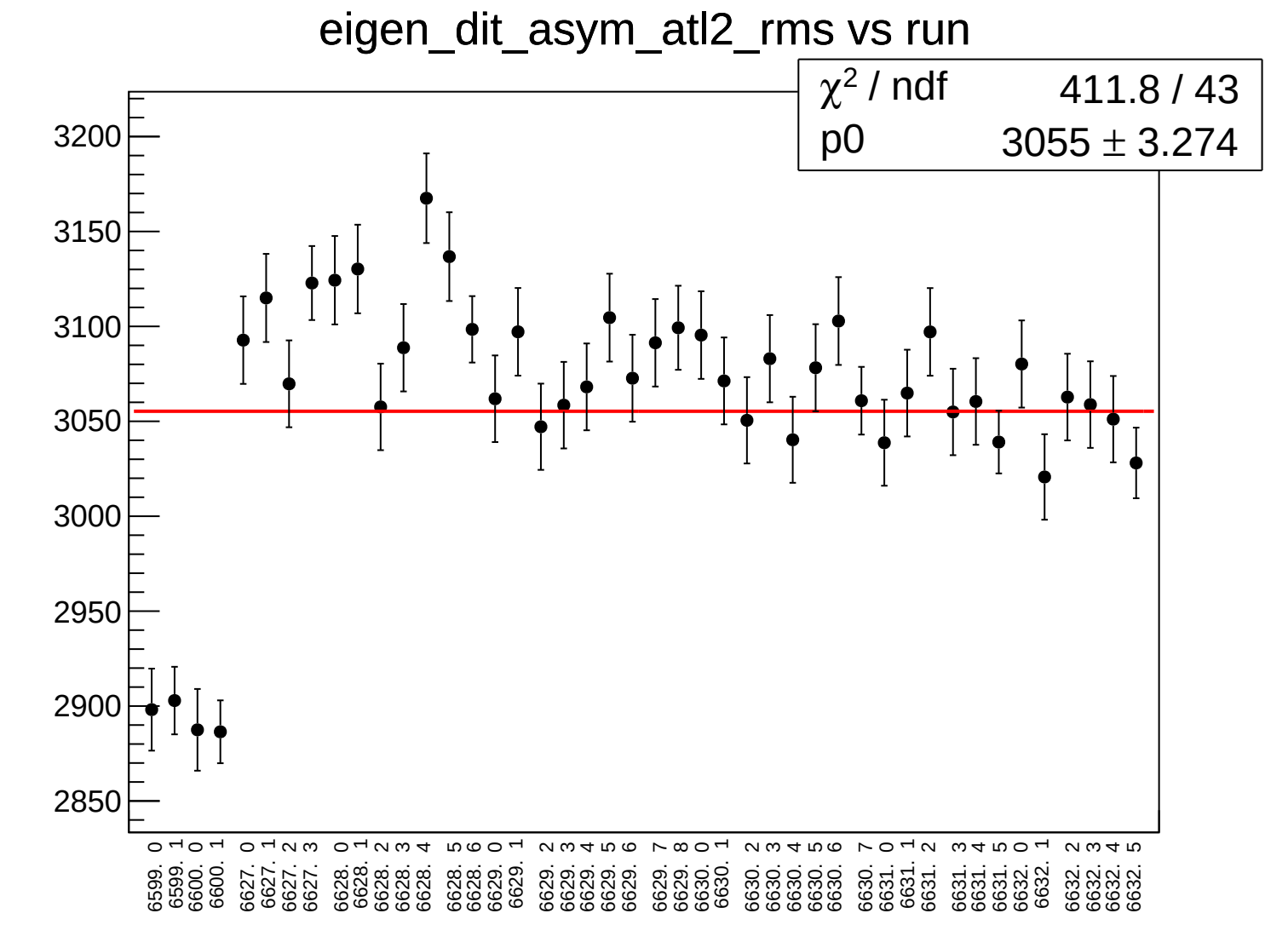

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 63.28 / 43
p0 1.601e+04 ± 1.391e+04
400
300
200
100
0
−100
−200
−300
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 44
Mean −56.73
Std Dev 0
2
1
0
−1
−2

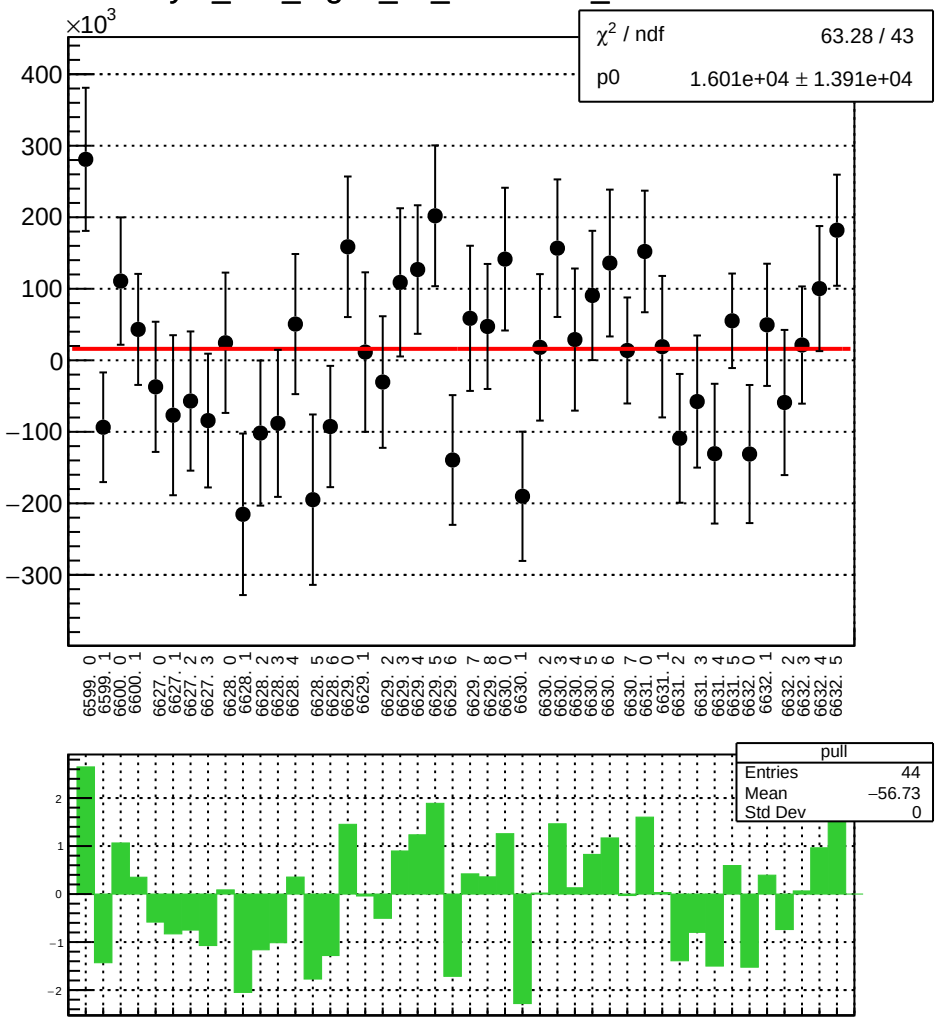

pull1D
Entries 44
Mean −0.02396
Std Dev 1.199
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

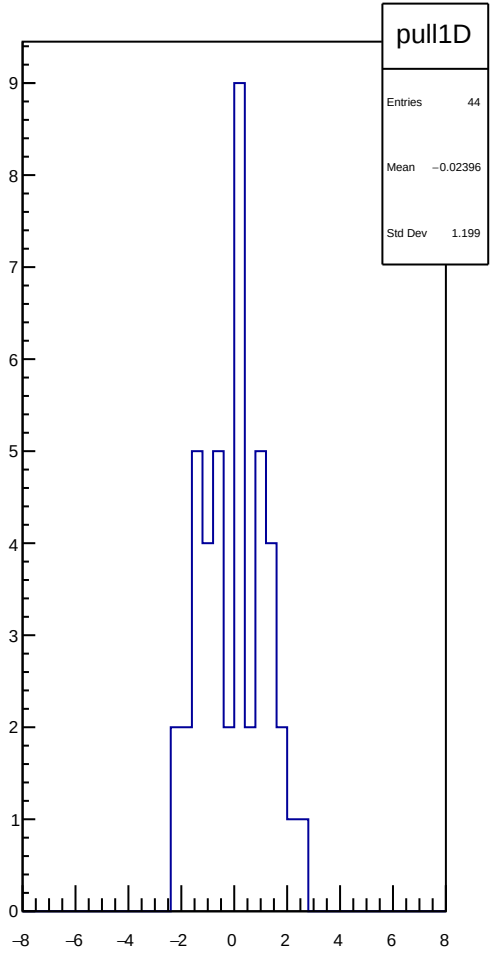

asym_atl2_dit_correction_rms vs run
χ² / ndf 5679 / 43
p0 9149 ± 9.833
11500
11000
10500
10000
9500
9000
8500
8000
7500
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

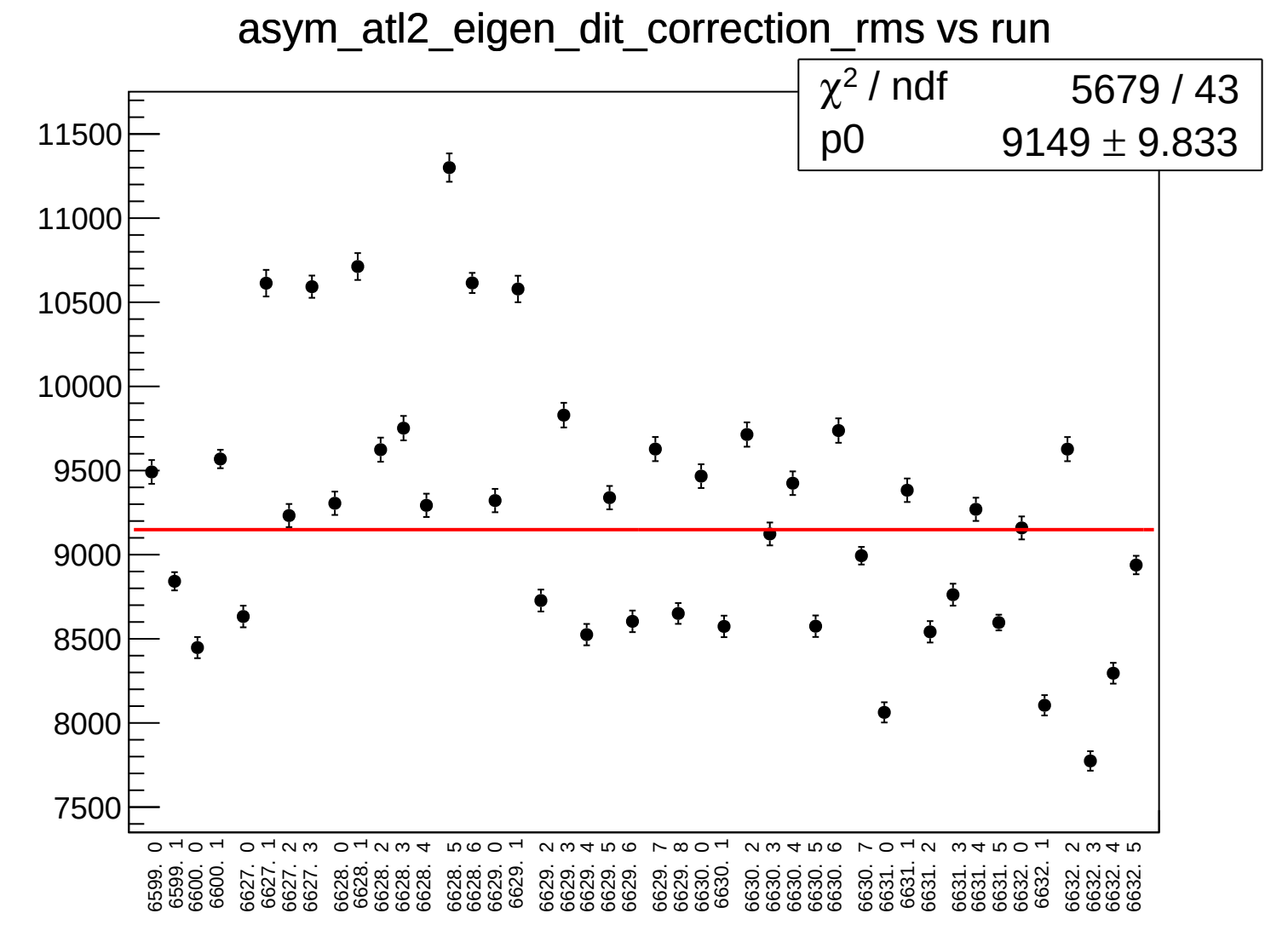

eigen_dit_asym_atl2_mean vs run
χ² / ndf 56.82 / 43
p0 1.689e+04 ± 4630
×10³
100
50
0
−50
−100
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 44
Mean 340.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

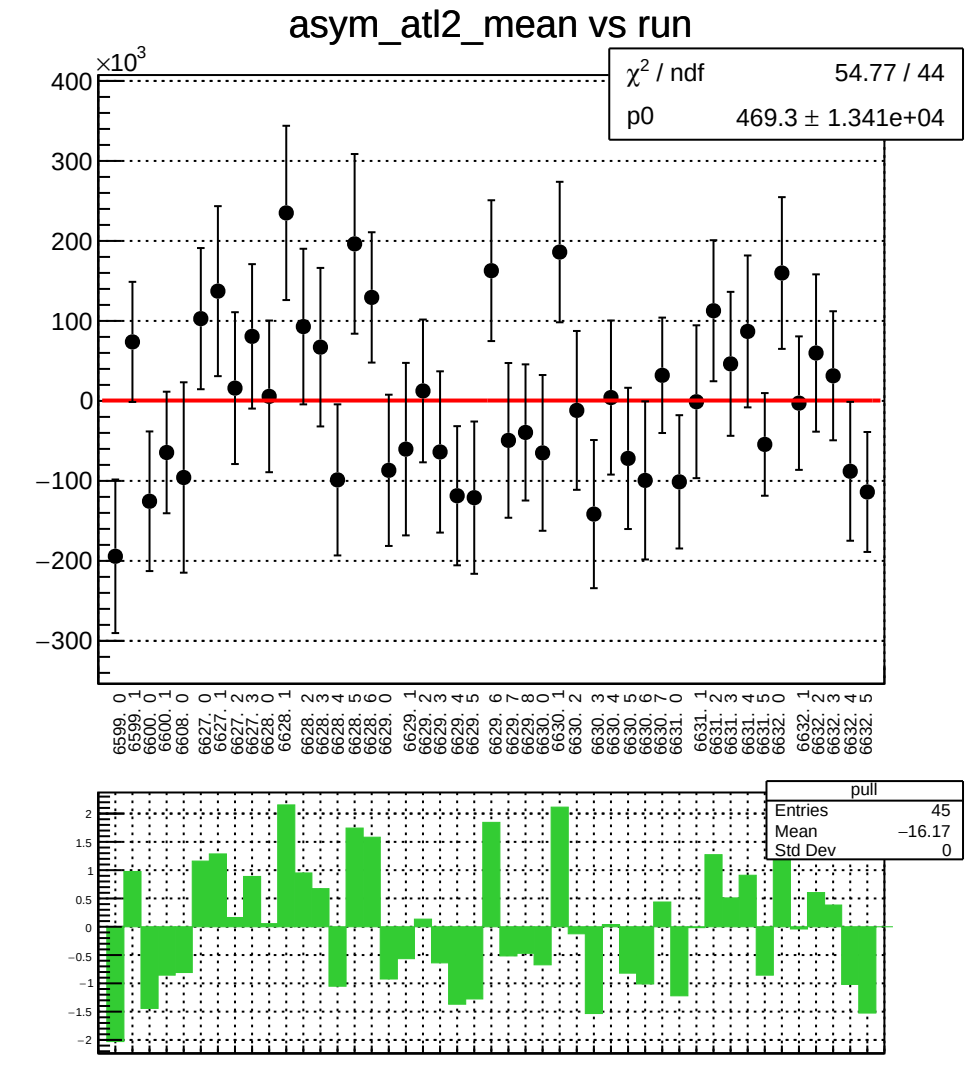

pull1D
Entries 44
Mean 0.007313
Std Dev 1.136
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

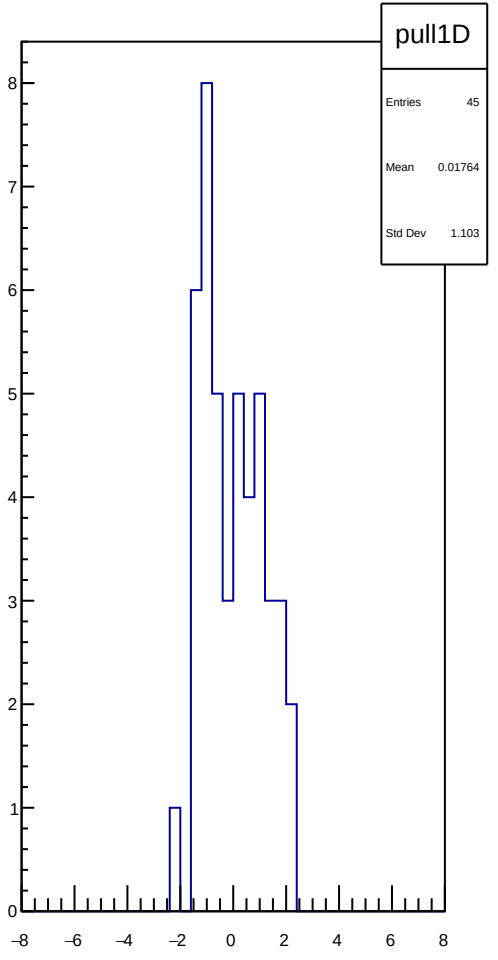

eigen_dit_asym_atl2_rms vs run
χ² / ndf 411.8 / 43
p0 3055 ± 3.274
3200
3150
3100
3050
3000
2950
2900
2850
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

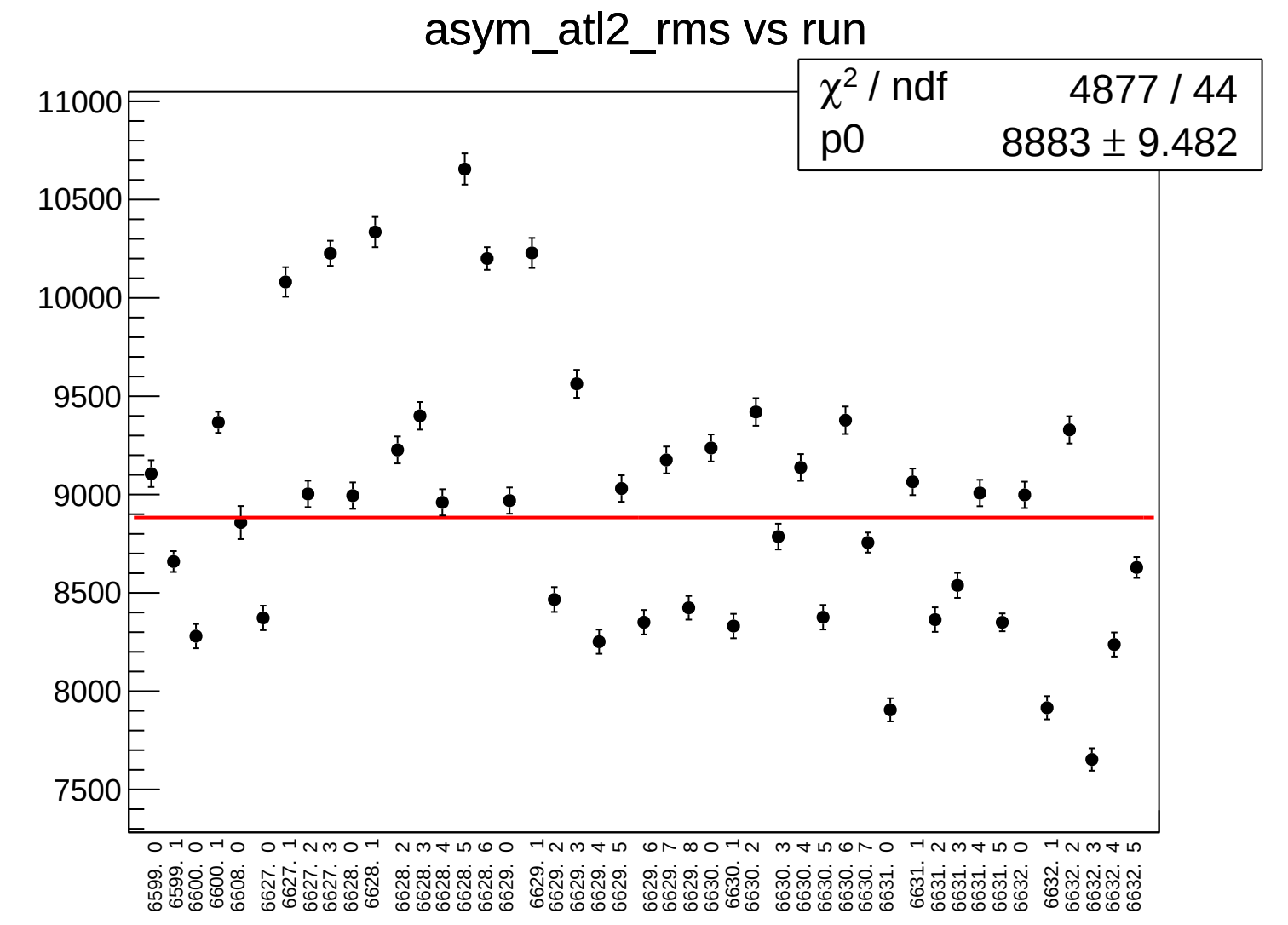

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 63.28 / 43
p0 1.601e+04 ± 1.391e+04
400
300
200
100
0
−100
−200
−300
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 44
Mean −56.73
Std Dev 0
2
1
0
−1
−2

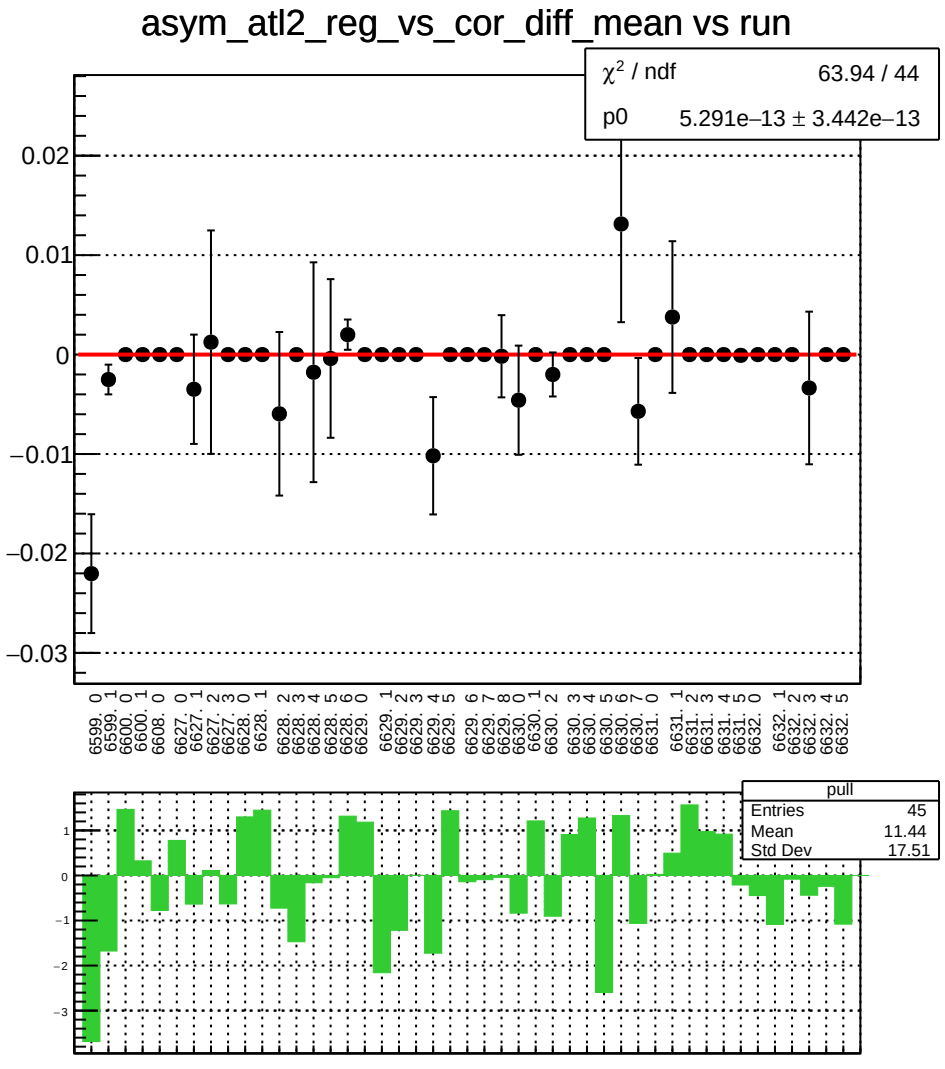

pull1D
Entries 44
Mean −0.02396
Std Dev 1.199
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

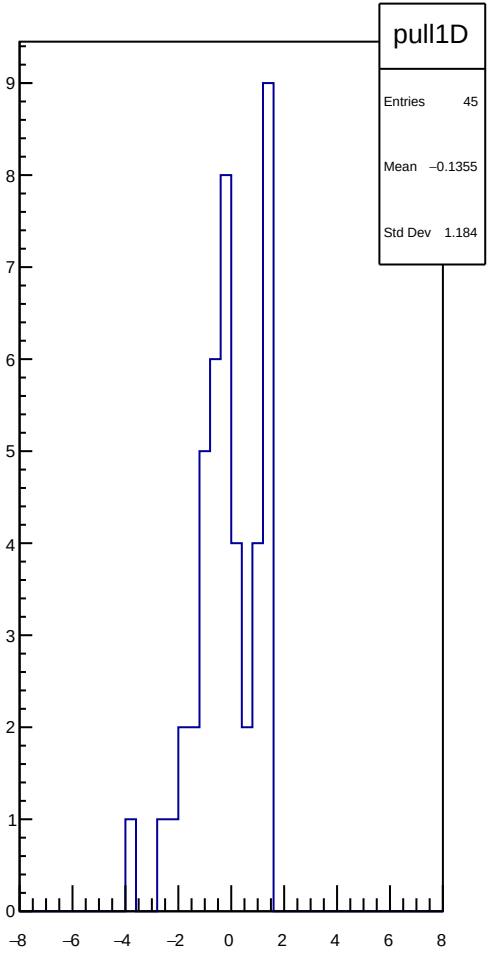

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 5679 / 43
p0 9149 ± 9.833
11500
11000
10500
10000
9500
9000
8500
8000
7500
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

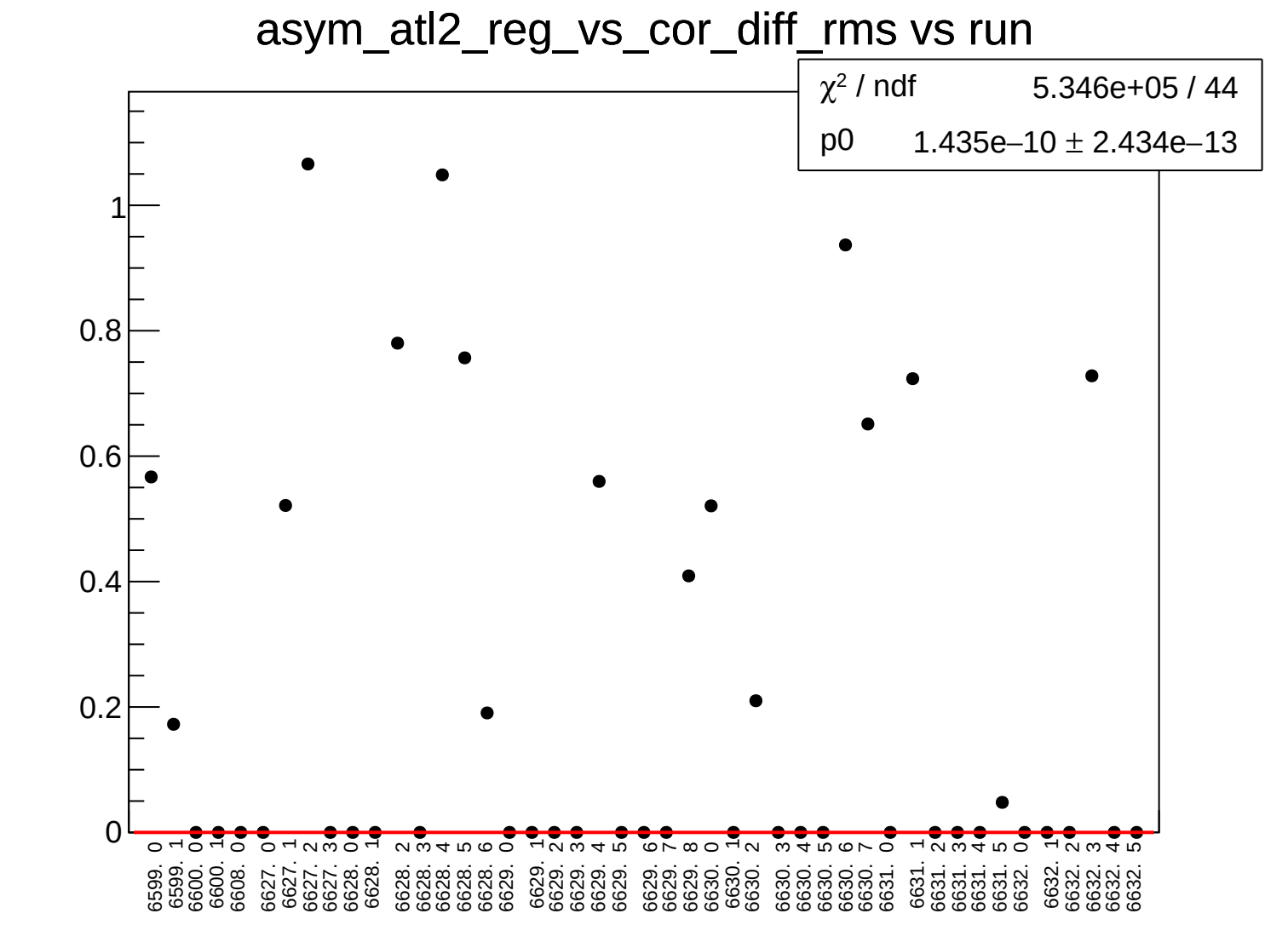

asym_atl2_mean vs run
×10^3
χ² / ndf 54.77 / 44
p0 469.3 ± 1.341e+04
pull
Entries 45
Mean −16.17
Std Dev 0

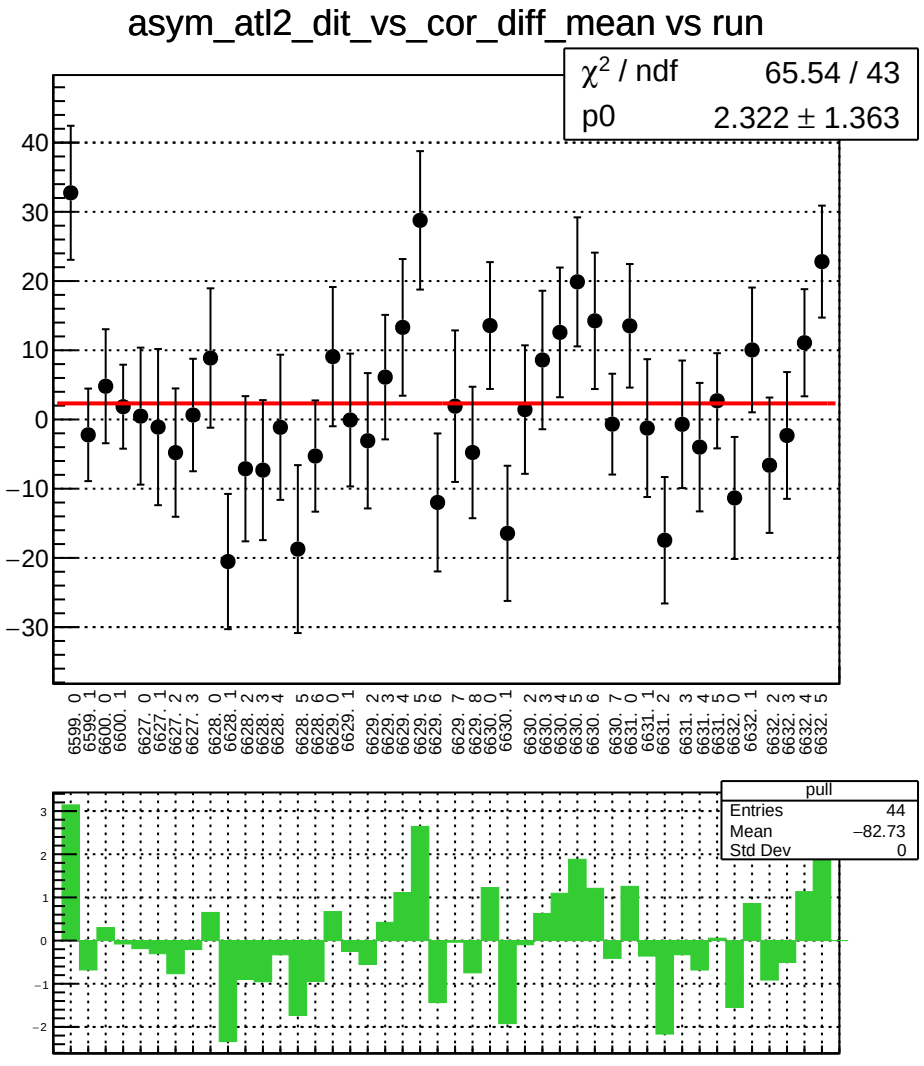

pull1D
Entries 45
Mean 0.01764
Std Dev 1.103

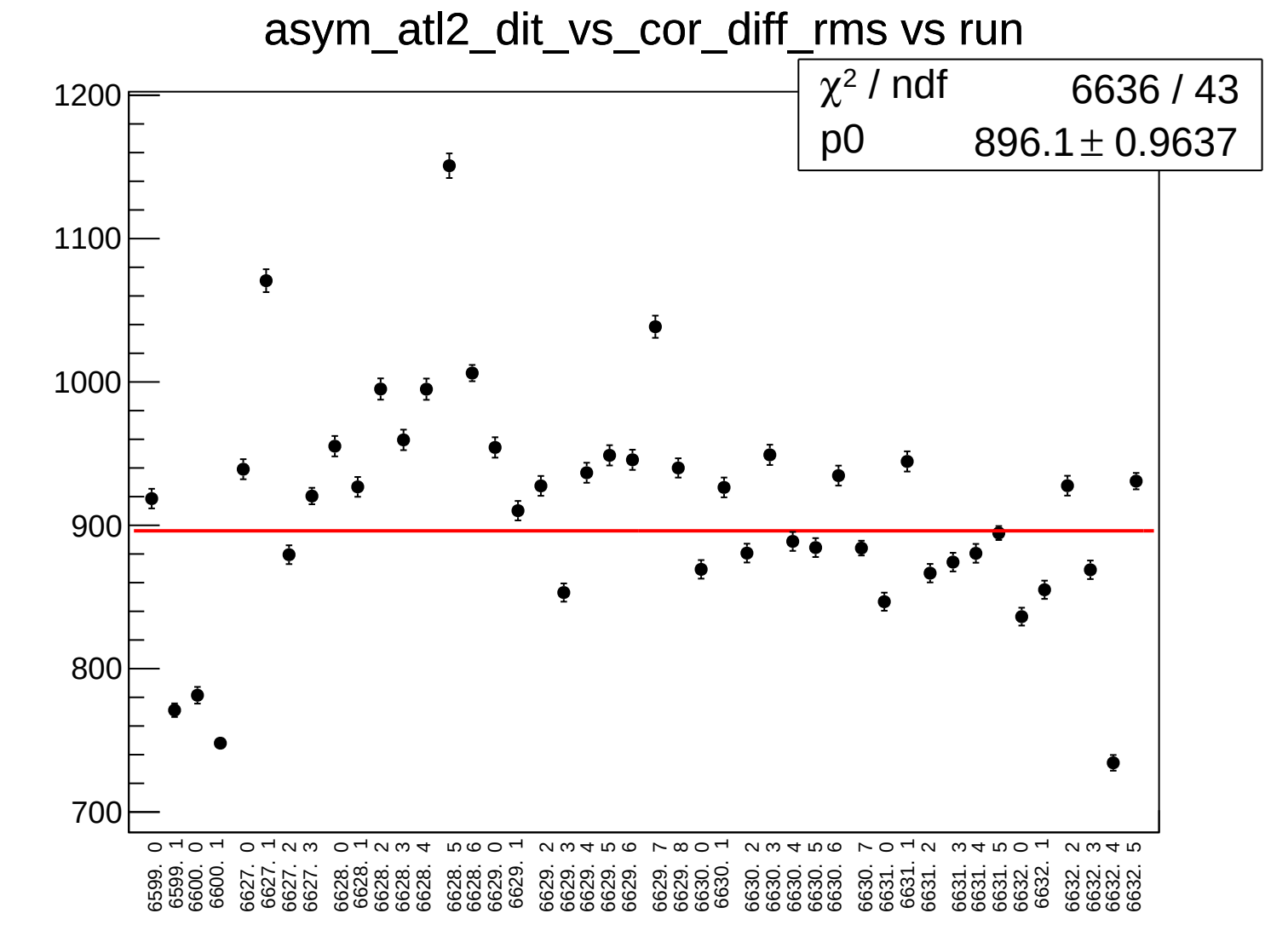

asym_atl2_rms vs run
χ² / ndf 4877 / 44
p0 8883 ± 9.482
11000
10500
10000
9500
9000
8500
8000
7500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

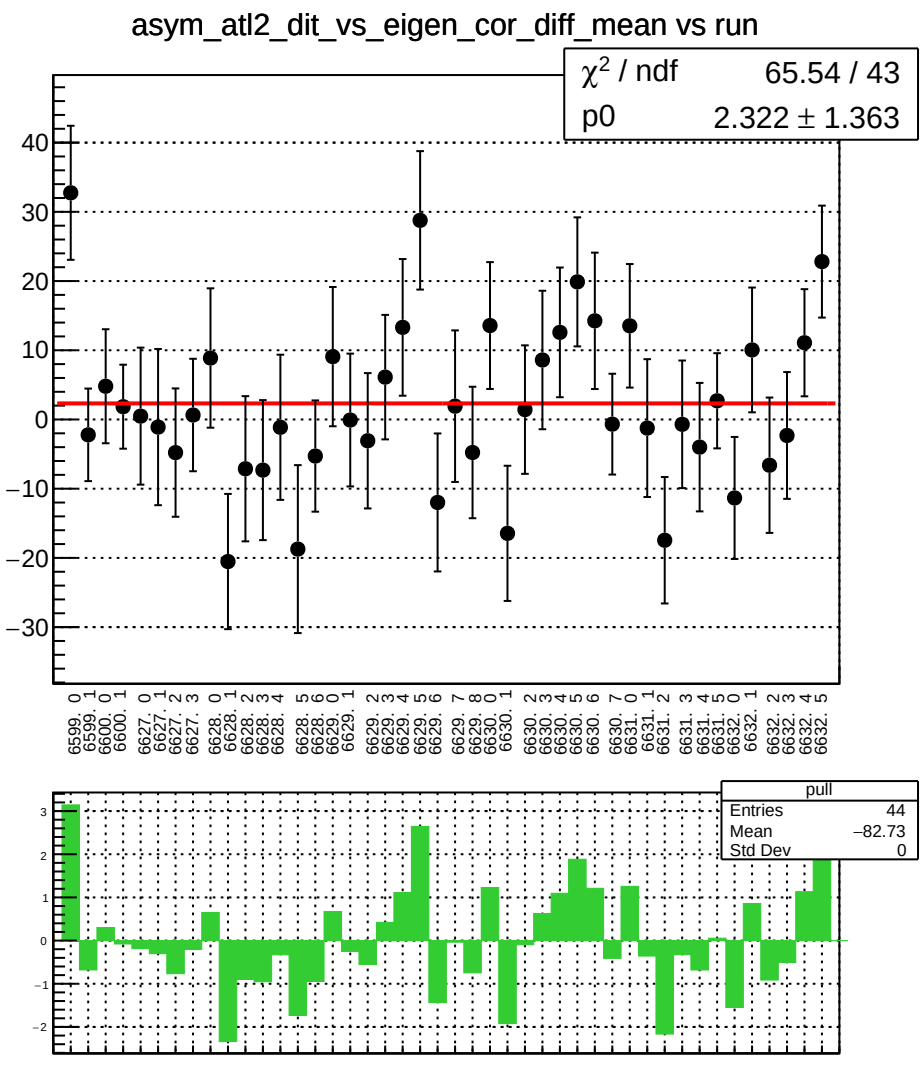

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 63.94 / 44
p0 5.291e−13 ± 3.442e−13
0.02
0.01
0
−0.01
−0.02
−0.03
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 11.44
Std Dev 17.51
1
0
−1
−2
−3

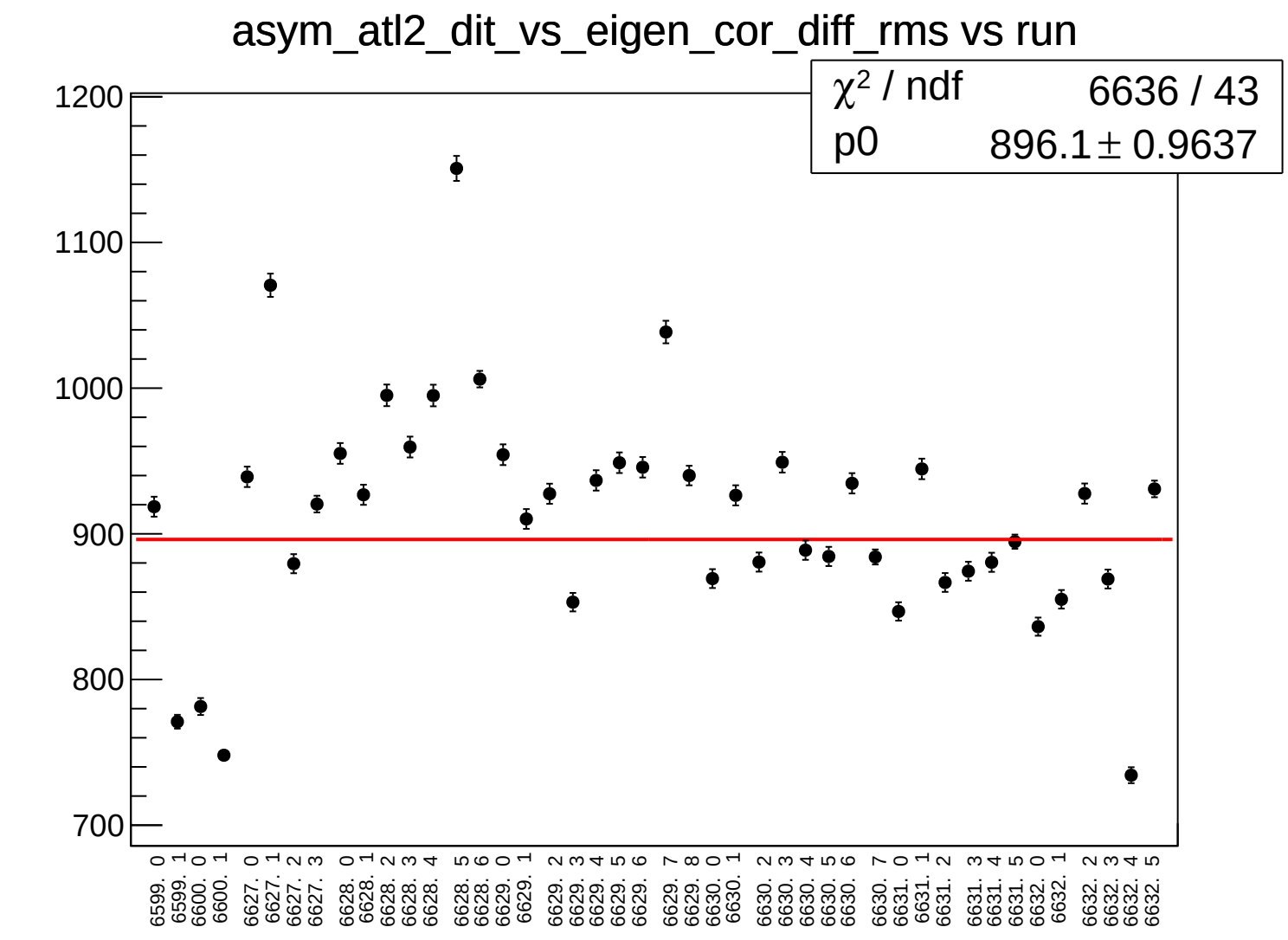

pull1D
Entries 45
Mean −0.1355
Std Dev 1.184
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

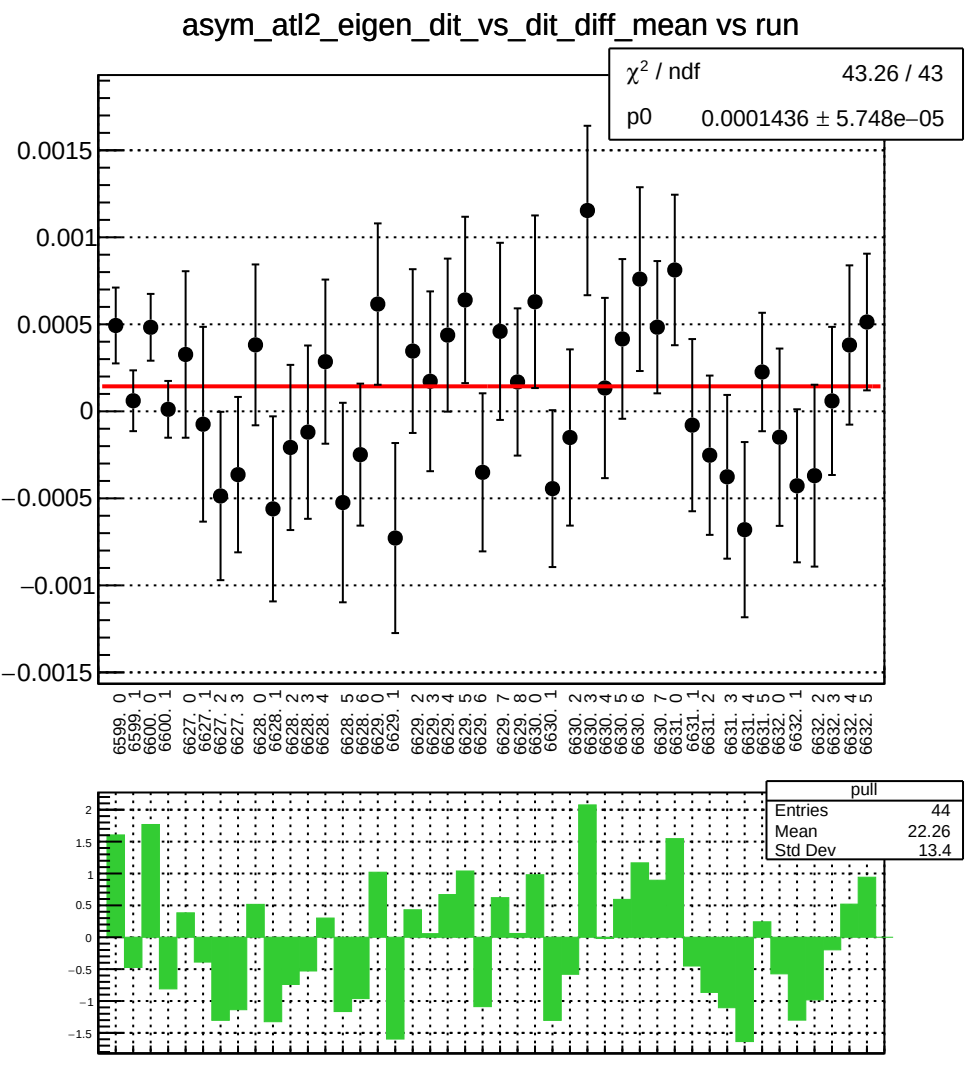

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 5.346e+05 / 44
p0 1.435e−10 ± 2.434e−13
1
0.8
0.6
0.4
0.2
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

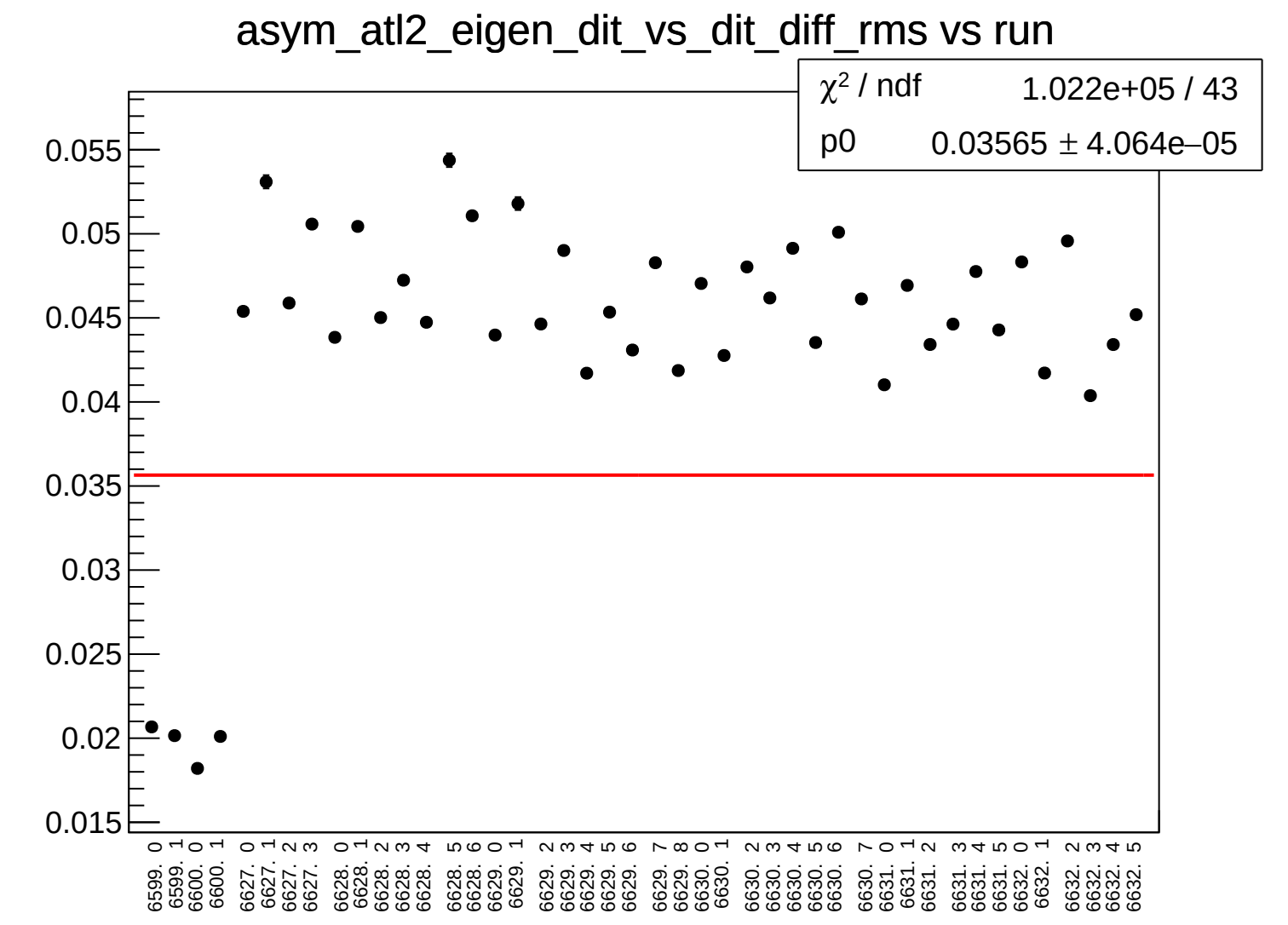

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 65.54 / 43
p0 2.322 ± 1.363
40
30
20
10
0
−10
−20
−30
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 44
Mean −82.73
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 44
Mean −0.0125
Std Dev 1.22
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

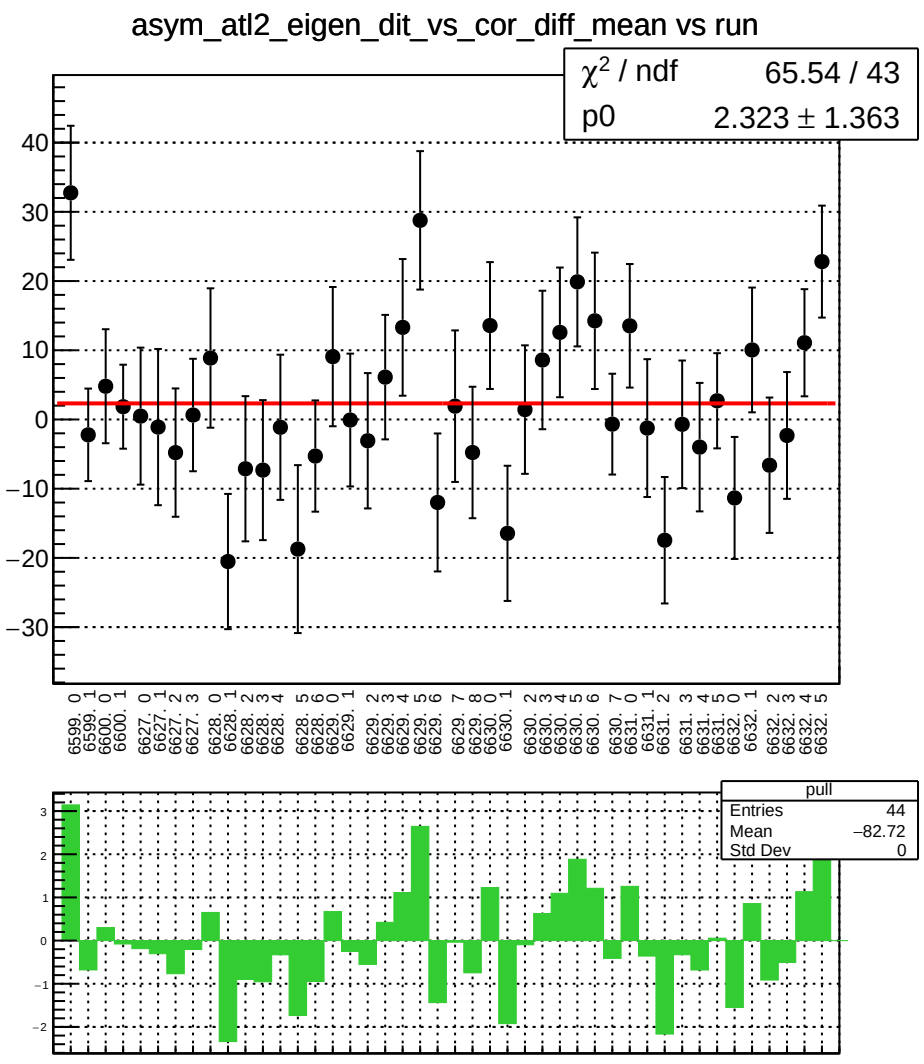

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 6636 / 43
p0 896.1 ± 0.9637
1200
1100
1000
900
800
700
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

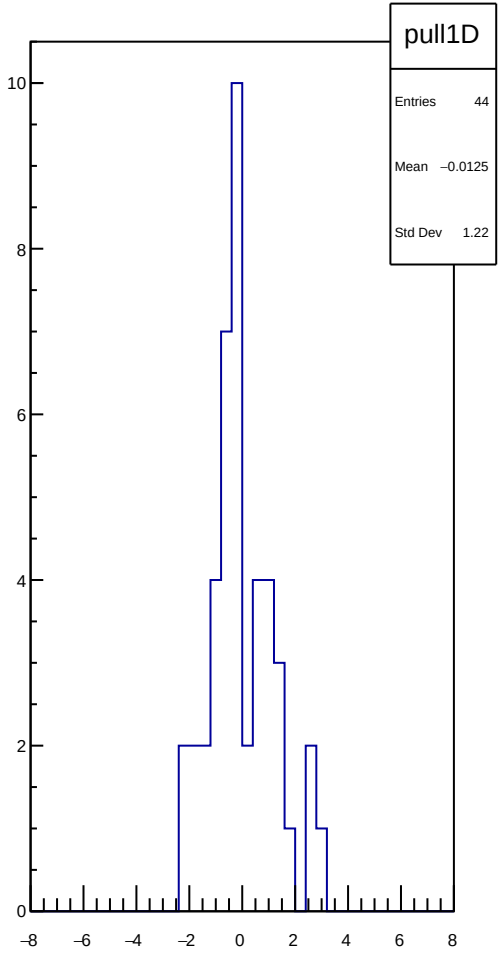

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.54 / 43
p0 2.322 ± 1.363
40
30
20
10
0
−10
−20
−30
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 44
Mean −82.73
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 44
Mean −0.0125
Std Dev 1.22
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

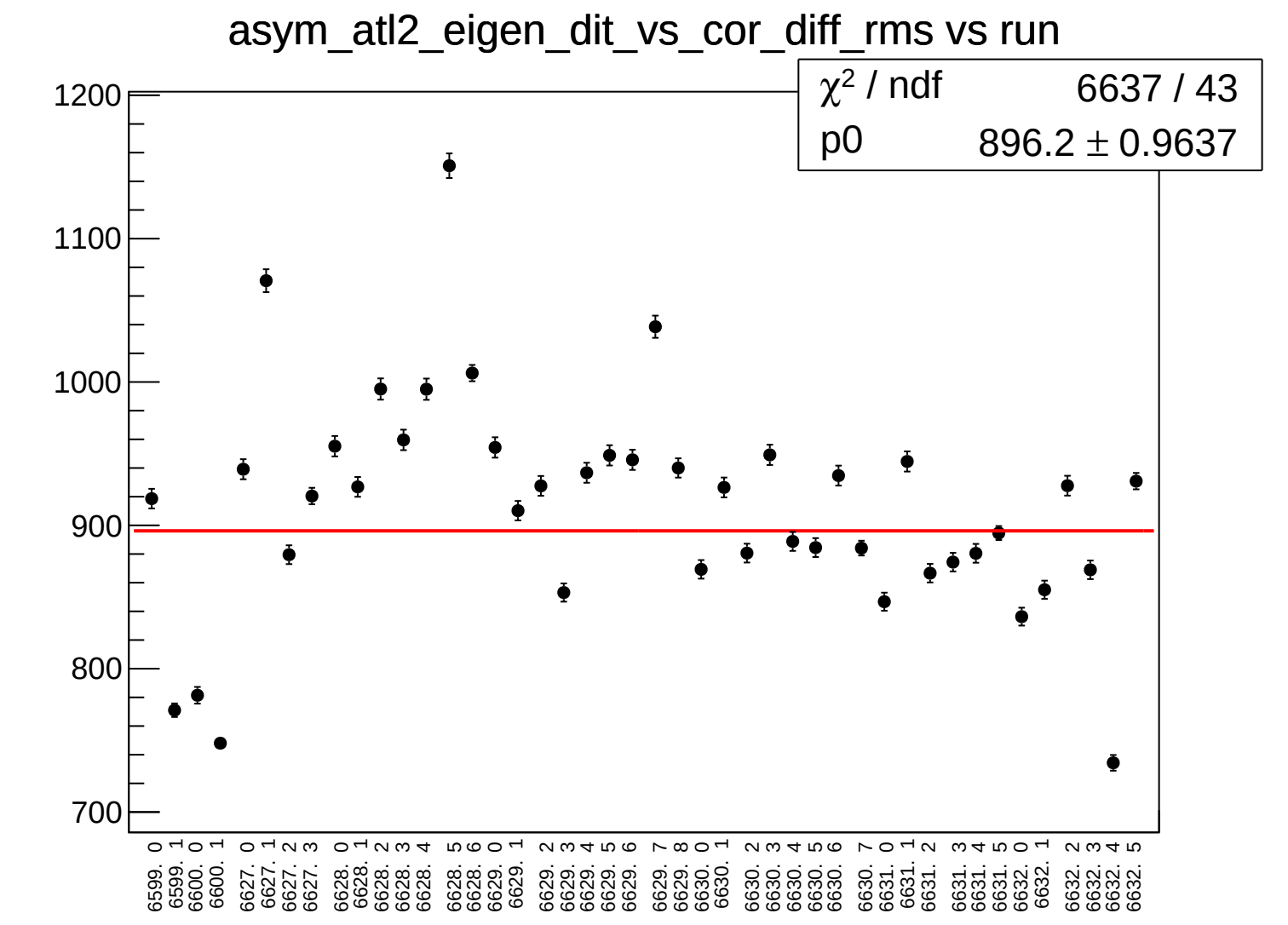

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6636 / 43
p0 896.1 ± 0.9637
1200
1100
1000
900
800
700
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

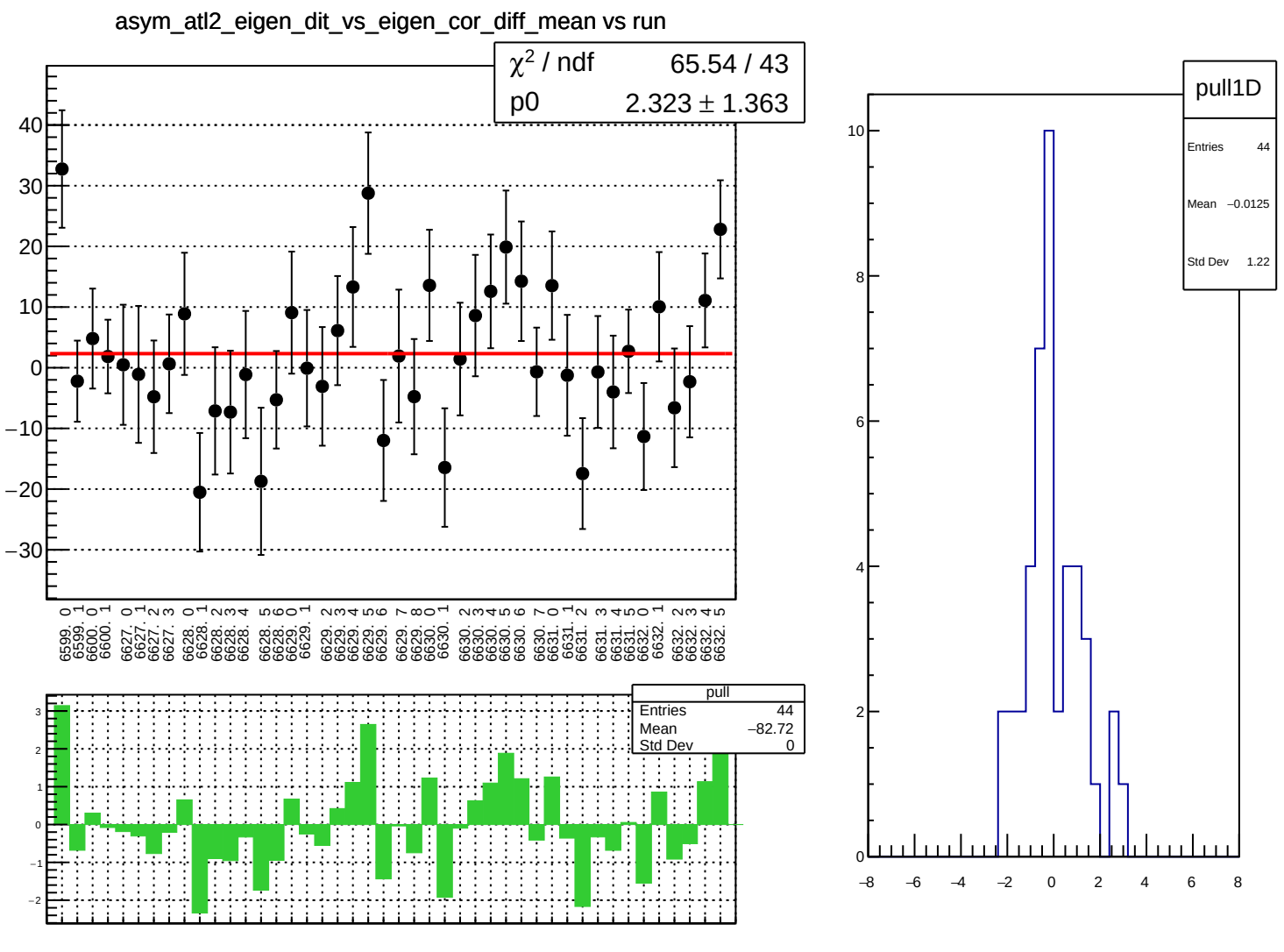

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 43.26 / 43
p0 0.0001436 ± 5.748e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 44
Mean 22.26
Std Dev 13.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 44
Mean −0.07046
Std Dev 0.989
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

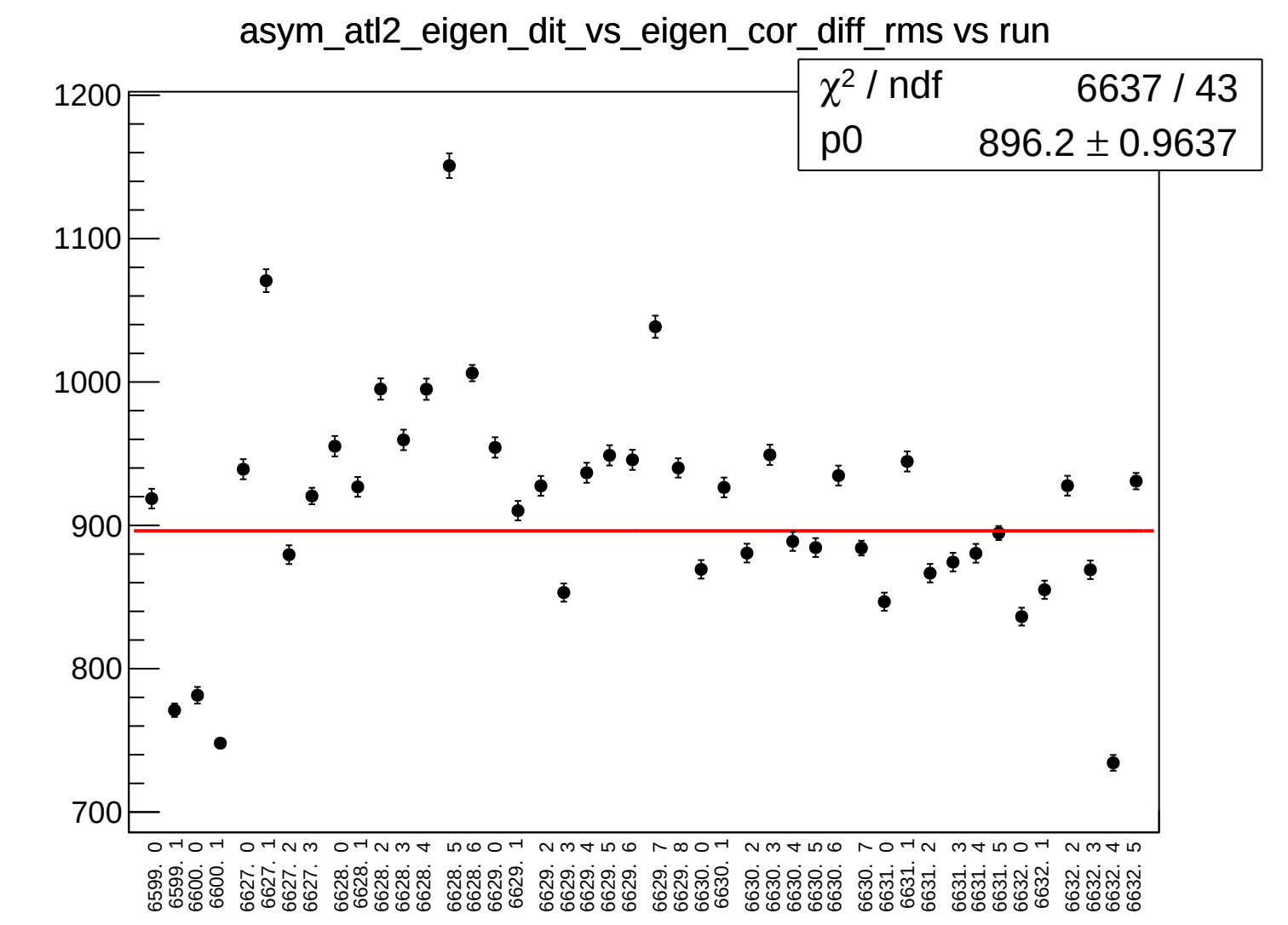

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.022e+05 / 43
p0 0.03565 ± 4.064e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

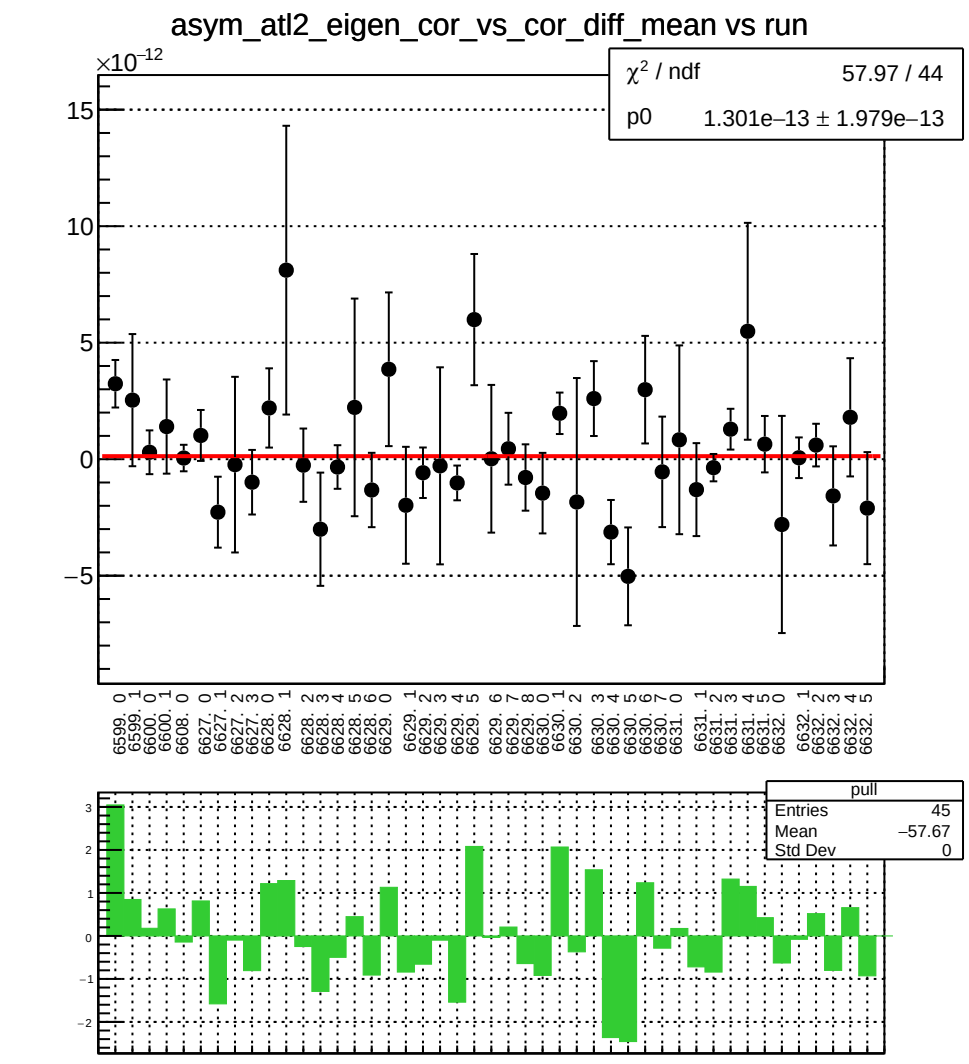

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65.54 / 43
p0 2.323 ± 1.363
40
30
20
10
0
−10
−20
−30
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 44
Mean −82.72
Std Dev 0
3
2
1
0
−1
−2

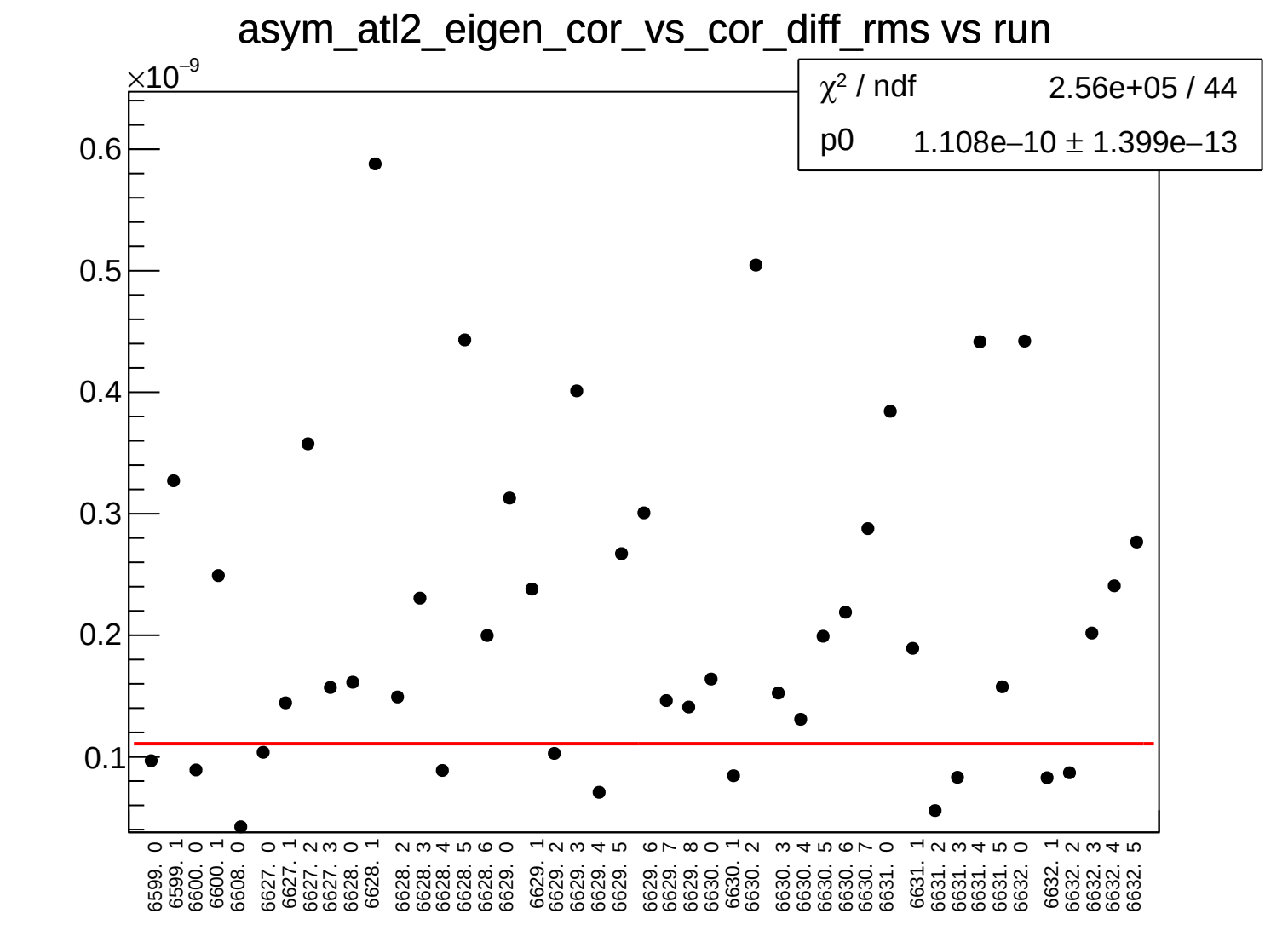

pull1D
Entries 44
Mean −0.0125
Std Dev 1.22
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

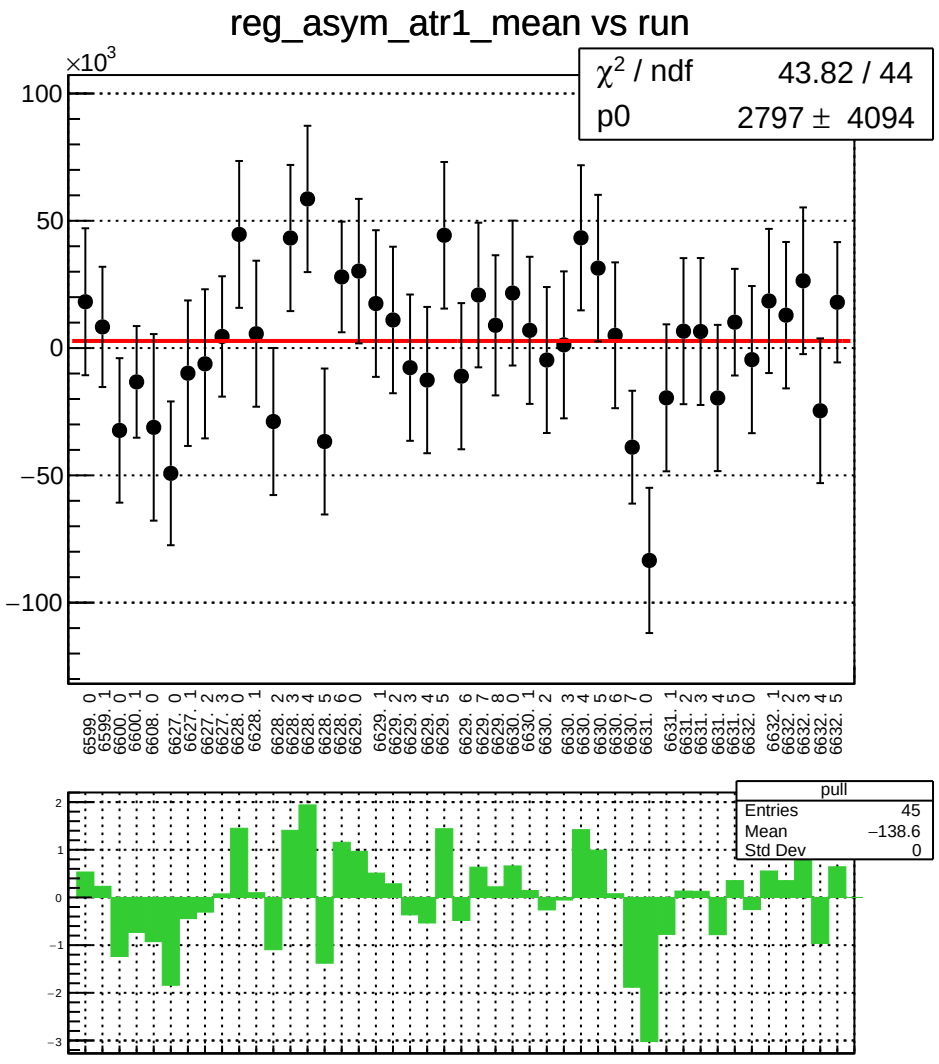

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6637 / 43
p0 896.2 ± 0.9637
1200
1100
1000
900
800
700
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

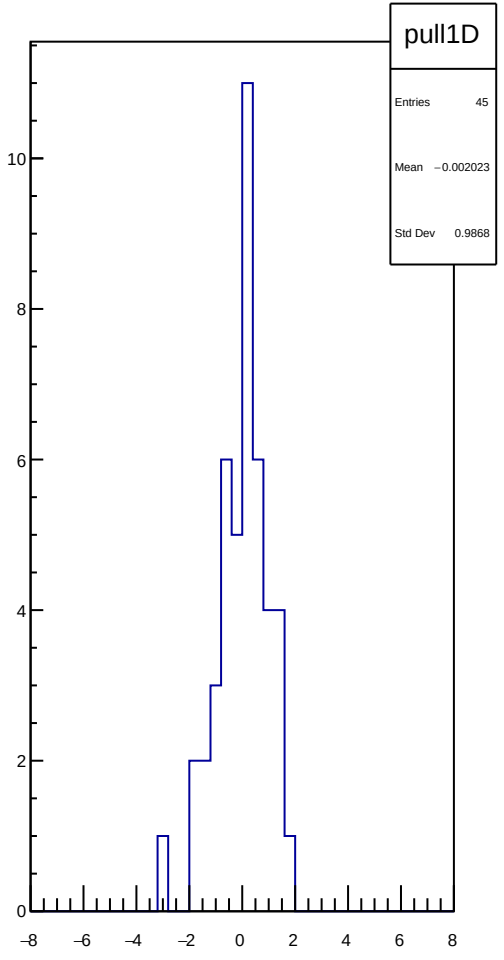

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.54 / 43
p0 2.323 ± 1.363
pull
Entries 44
Mean −82.72
Std Dev 0
pull1D
Entries 44
Mean −0.0125
Std Dev 1.22

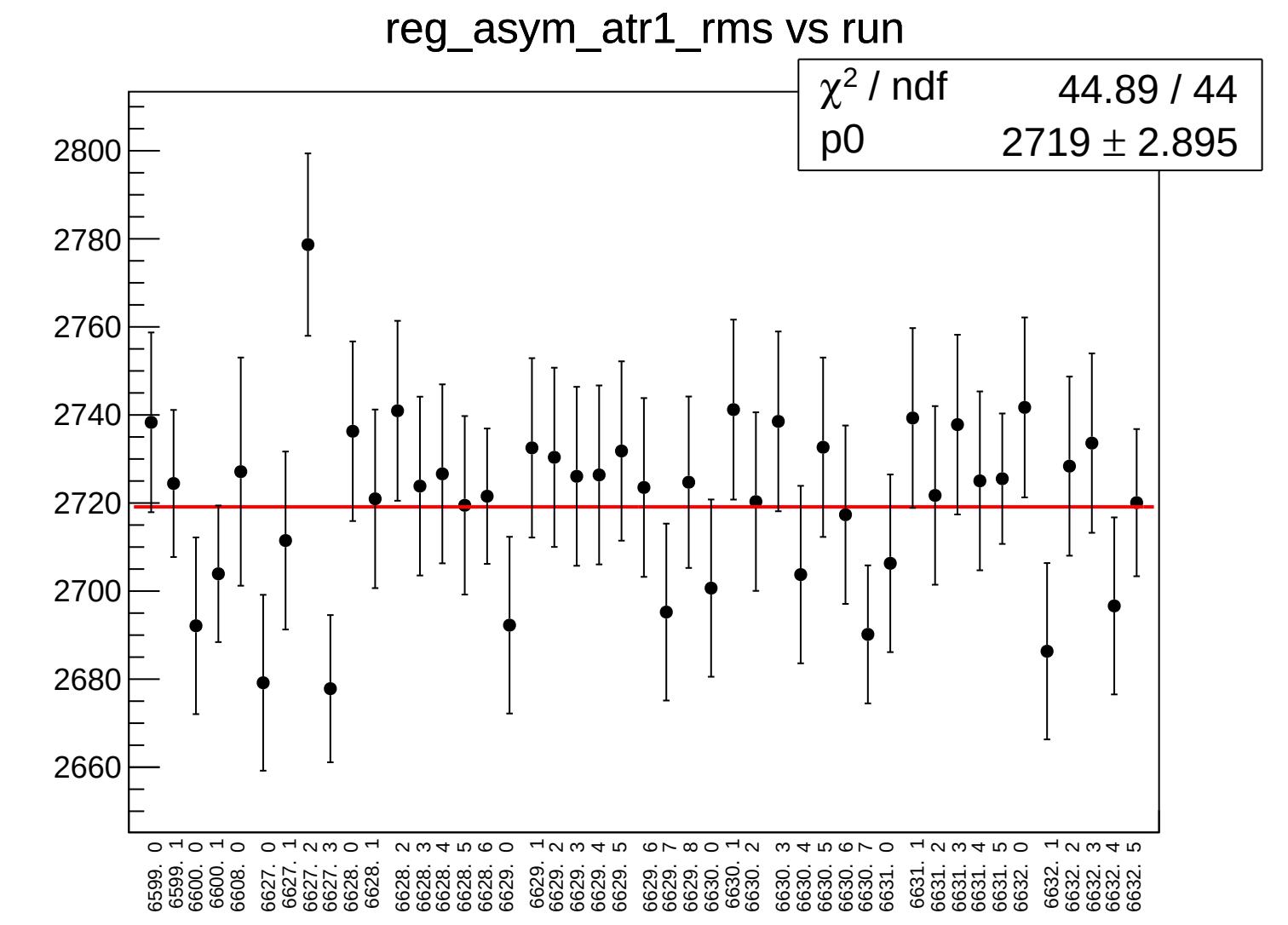

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6637 / 43
p0 896.2 ± 0.9637
1200
1100
1000
900
800
700
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

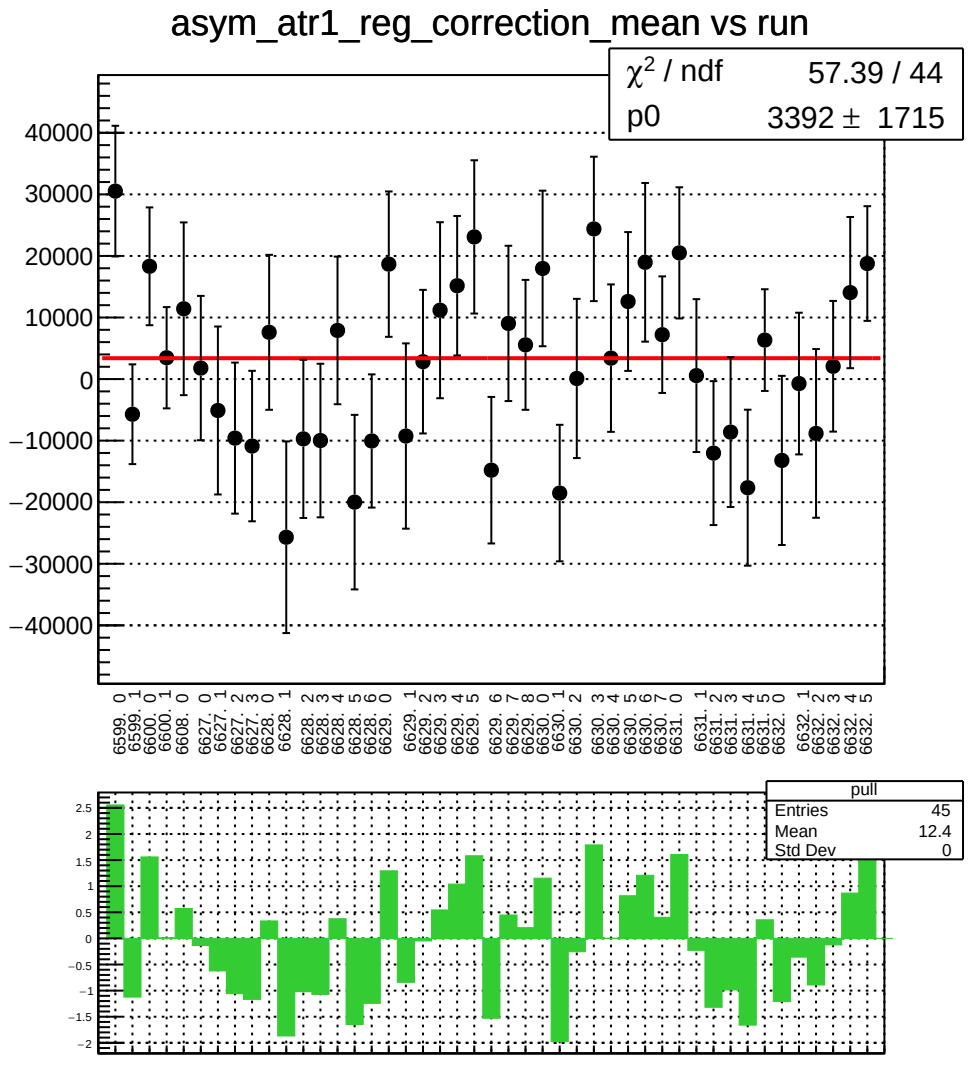

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 57.97 / 44
p0 1.301e−13 ± 1.979e−13
15
10
5
0
−5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −57.67
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.0268
Std Dev 1.135
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

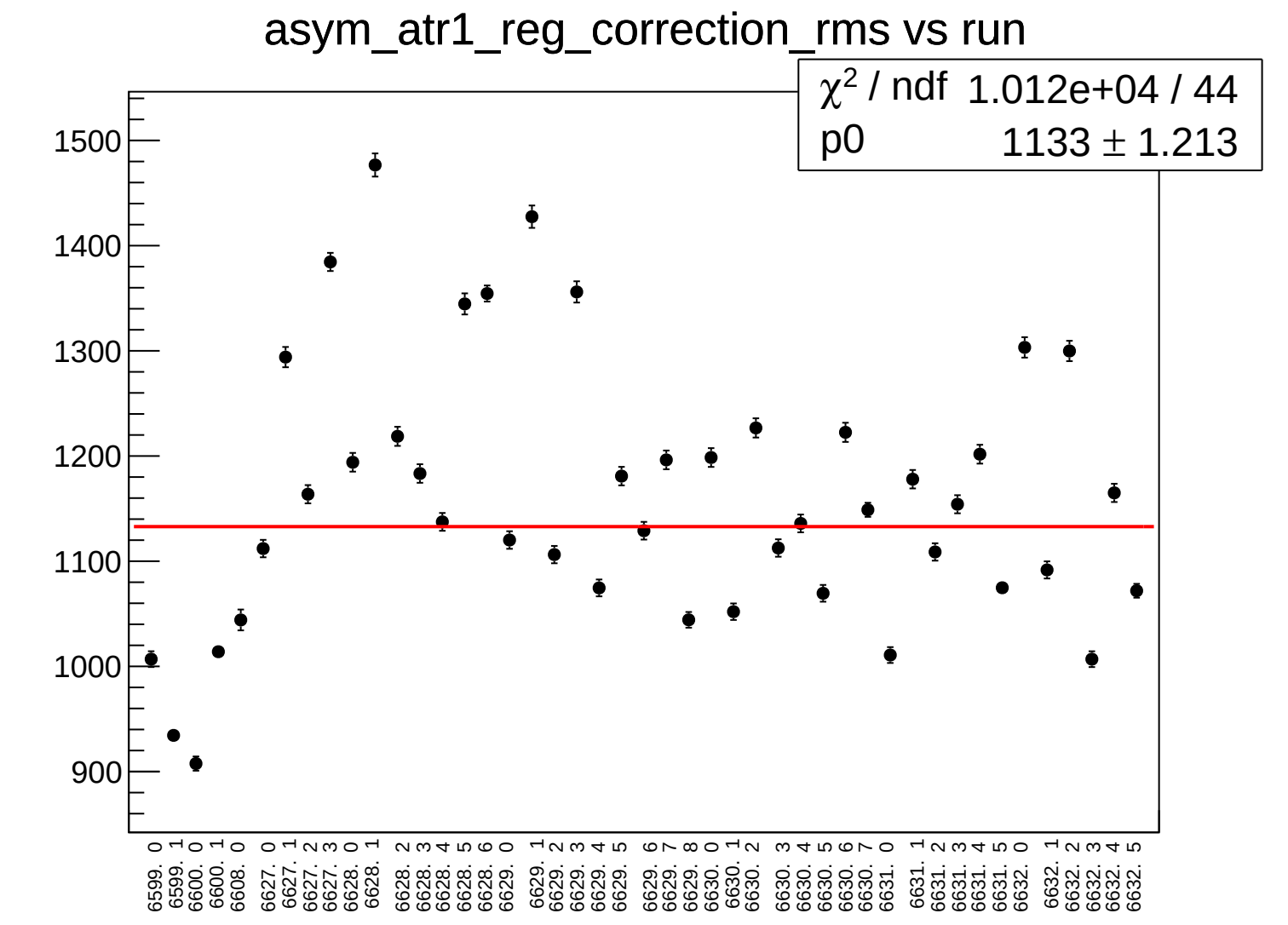

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.56e+05 / 44
p0 1.108e−10 ± 1.399e−13
0.6
0.5
0.4
0.3
0.2
0.1
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

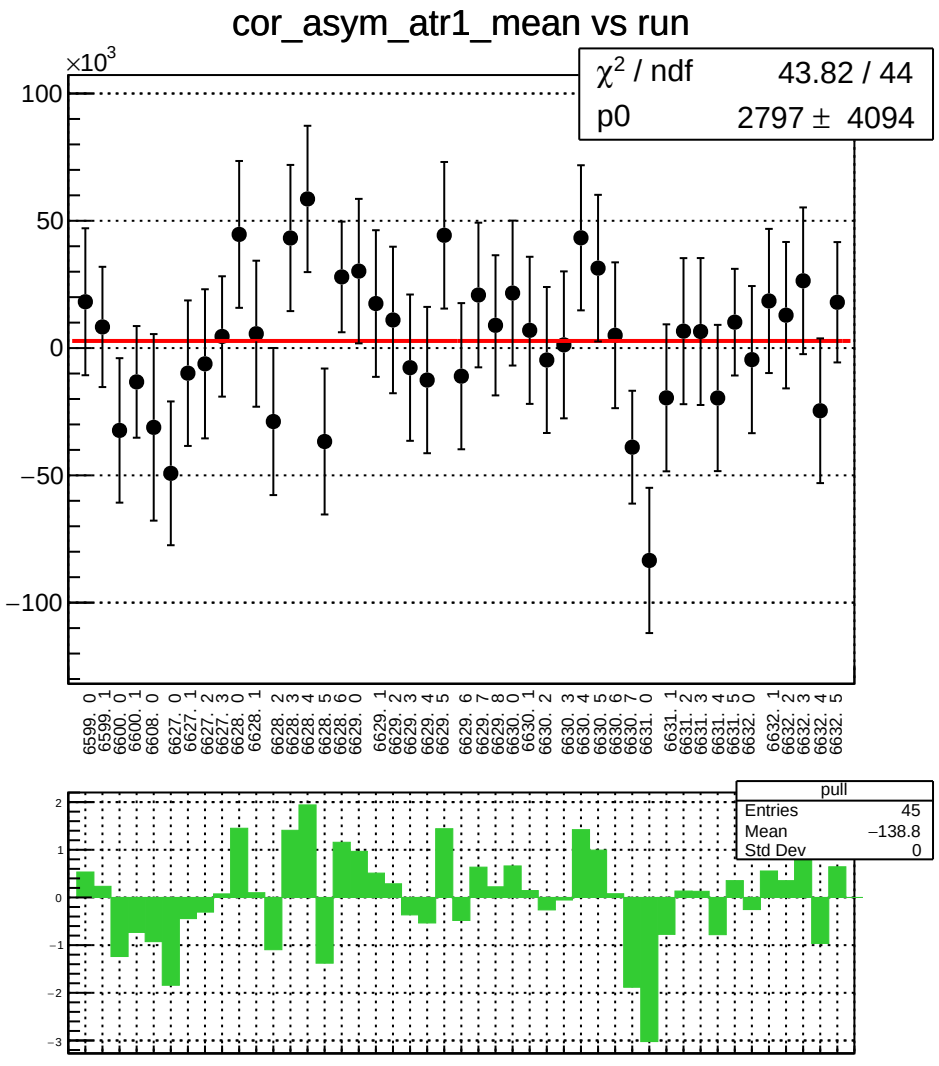

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 43.82 / 44
p0 2797 ± 4094
100
50
0
−50
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −138.6
Std Dev 0
2
1
0
−1
−2
−3

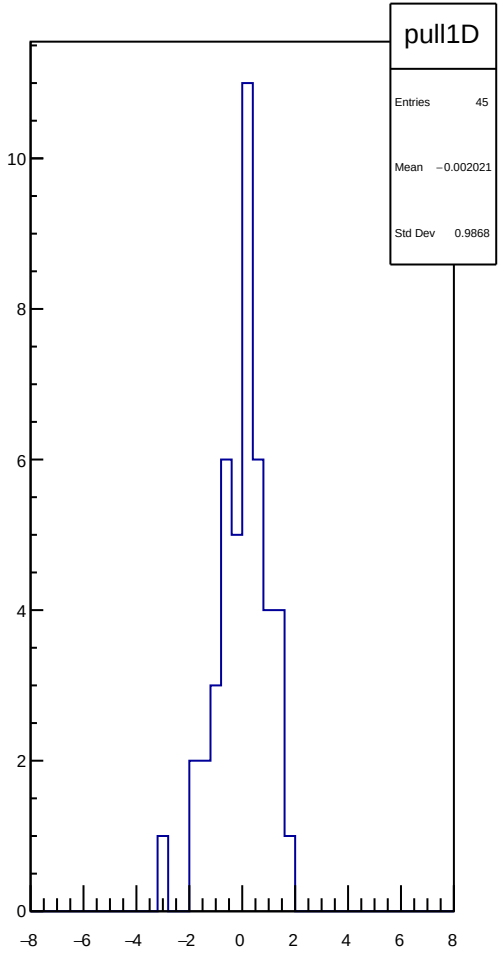

pull1D
Entries 45
Mean −0.002023
Std Dev 0.9868
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

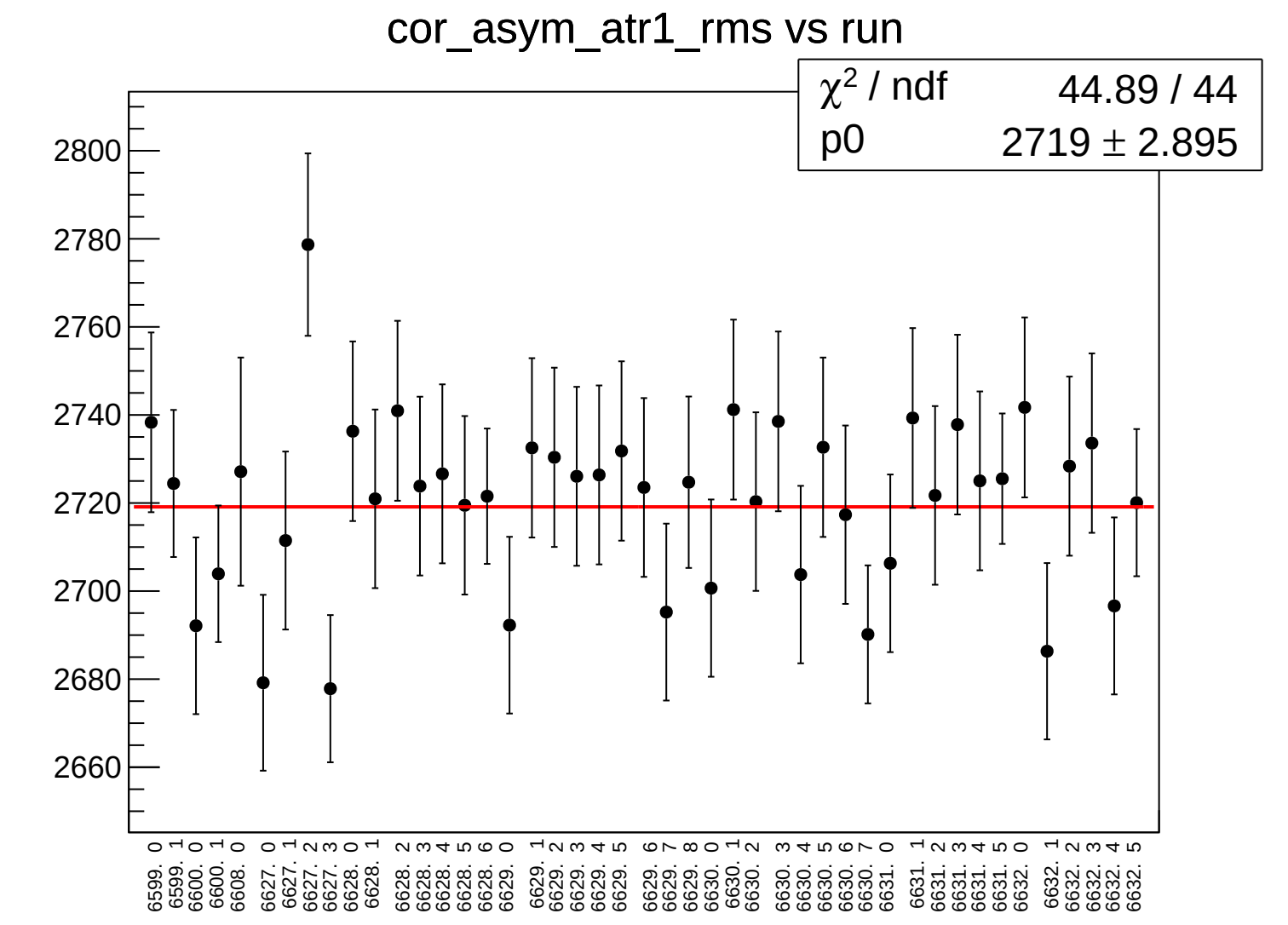

reg_asym_atr1_rms vs run
χ² / ndf 44.89 / 44
p0 2719 ± 2.895
2800
2780
2760
2740
2720
2700
2680
2660
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

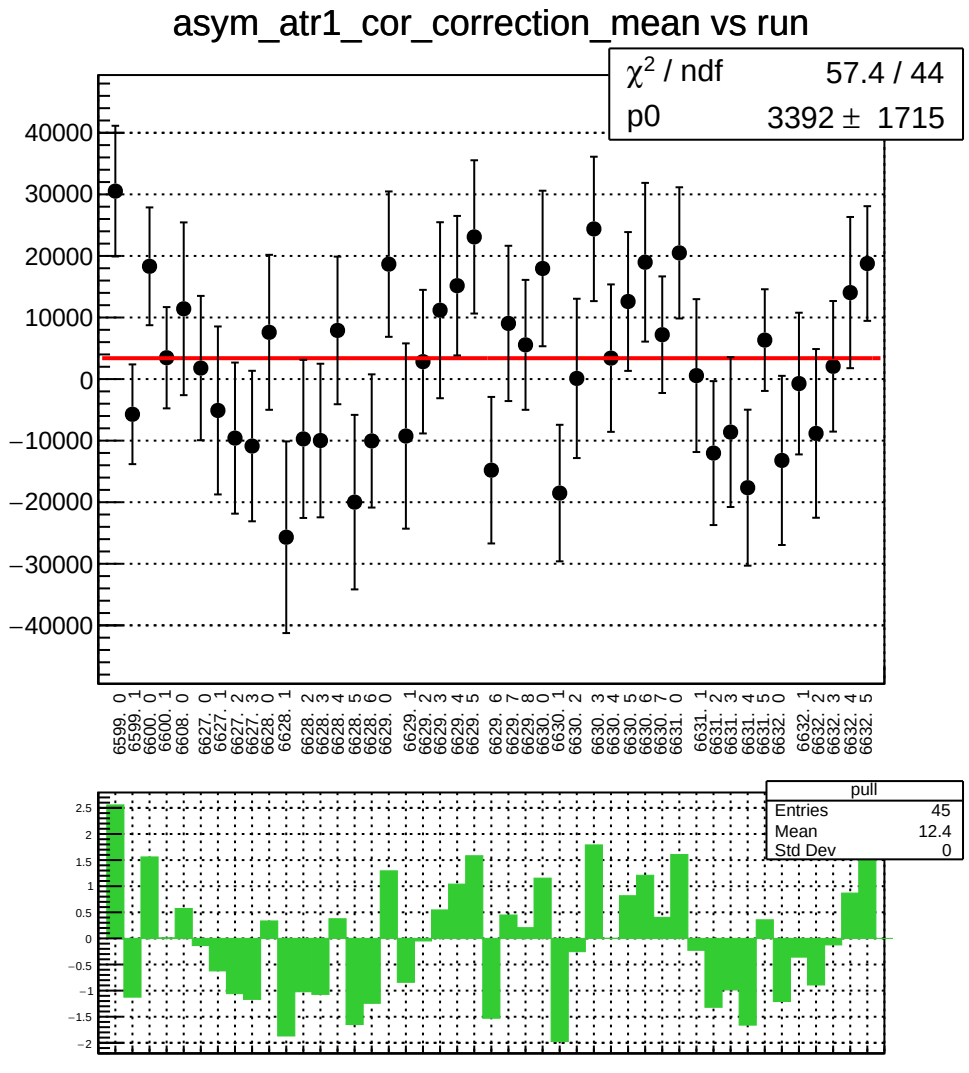

asym_atr1_reg_correction_mean vs run
χ² / ndf 57.39 / 44
p0 3392 ± 1715
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 12.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.04465
Std Dev 1.128
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

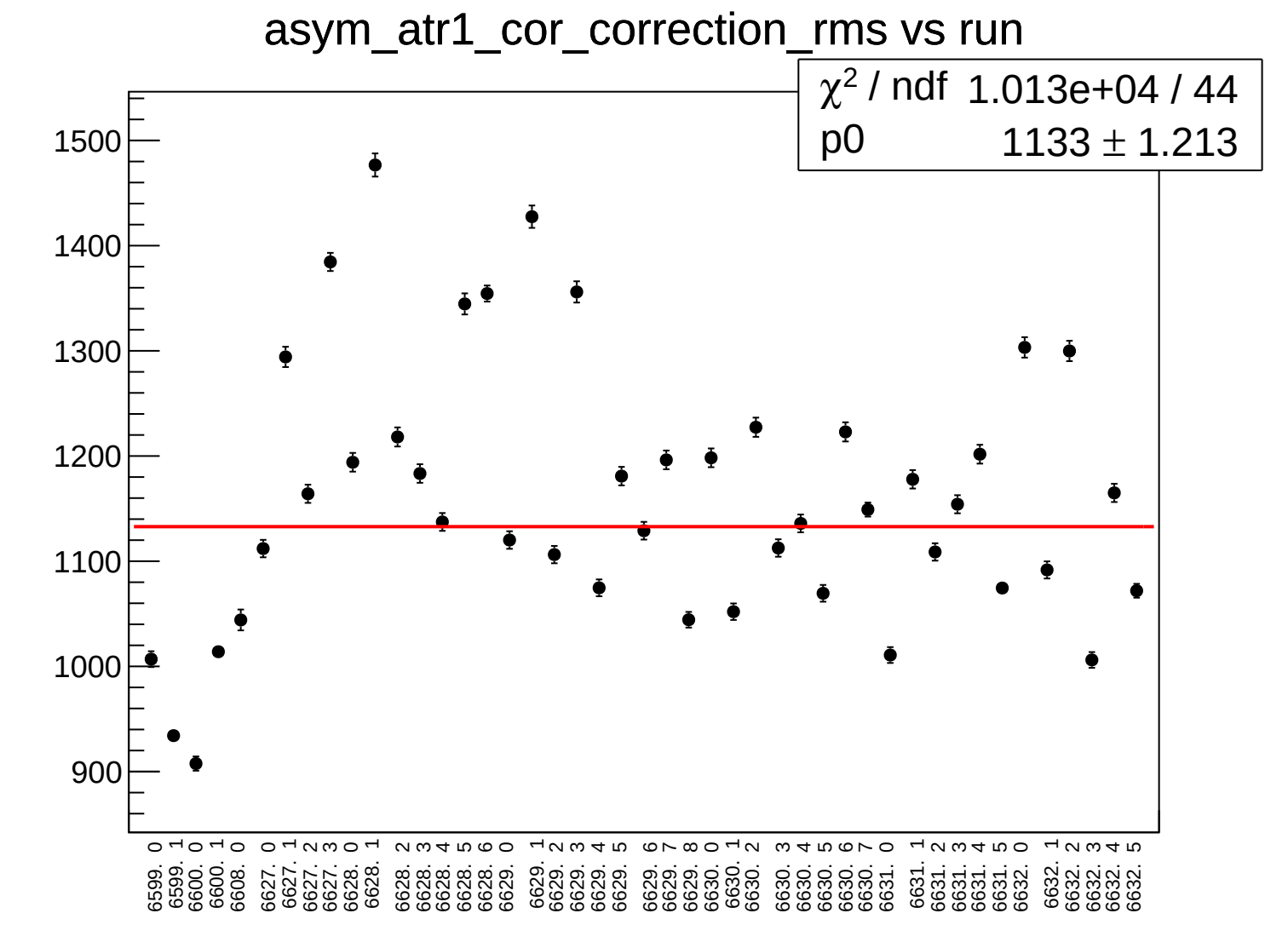

asym_atr1_reg_correction_rms vs run
χ² / ndf 1.012e+04 / 44
p0 1133 ± 1.213
1500
1400
1300
1200
1100
1000
900
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 43.82 / 44
p0 2797 ± 4094
100
50
0
−50
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −138.8
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.002021
Std Dev 0.9868
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atr1_rms vs run
χ² / ndf 44.89 / 44
p0 2719 ± 2.895
2800
2780
2760
2740
2720
2700
2680
2660
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atr1_cor_correction_mean vs run
χ² / ndf 57.4 / 44
p0 3392 ± 1715
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 12.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.04462
Std Dev 1.128
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1_cor_correction_rms vs run
χ² / ndf 1.013e+04 / 44
p0 1133 ± 1.213
1500
1400
1300
1200
1100
1000
900
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
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6632. 0
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6632. 2
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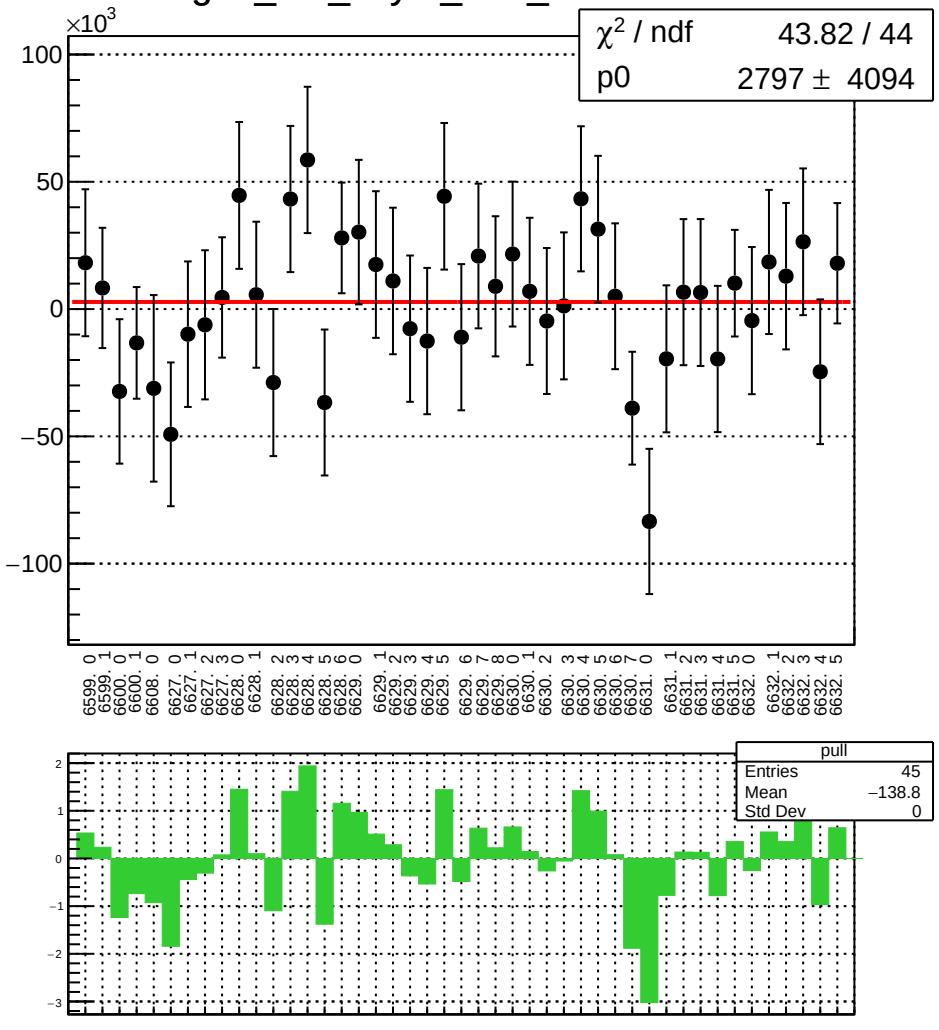
6632. 4
6632. 5


eigen_cor_asym_atr1_mean vs run
×10^3
χ² / ndf 43.82 / 44
p0 2797 ± 4094
100
50
0
−50
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
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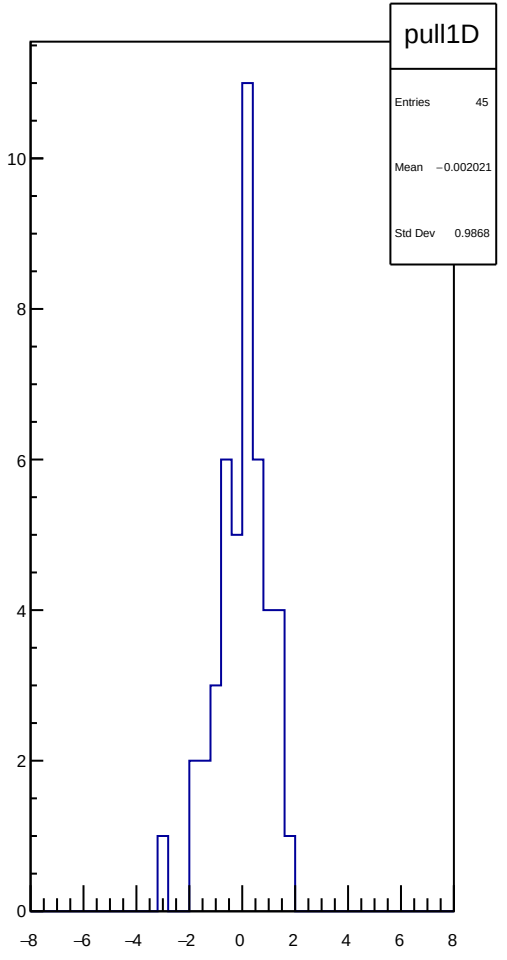
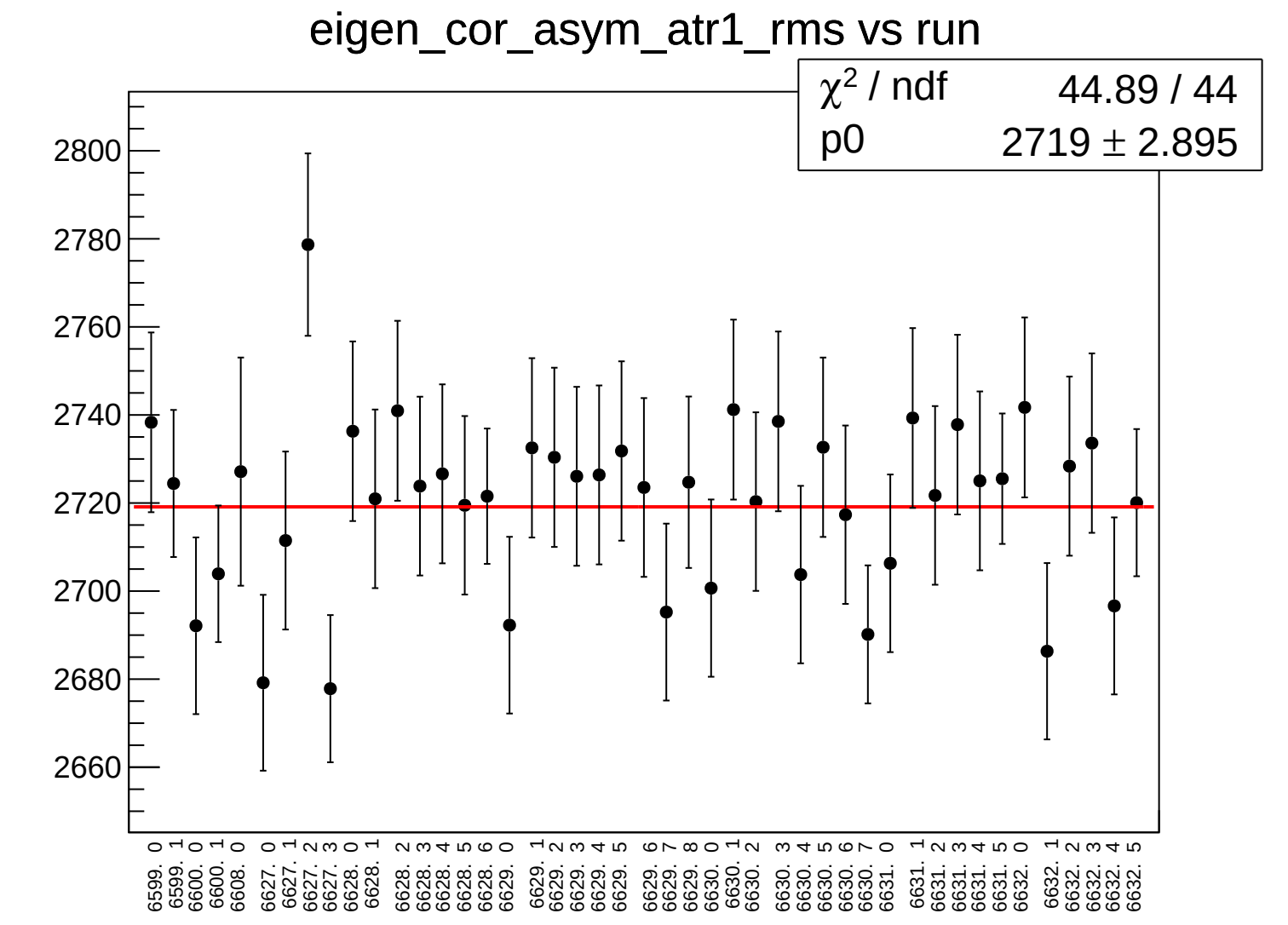
6632. 5
pull
Entries 45
Mean −138.8
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.002021
Std Dev 0.9868
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atr1_rms vs run
χ² / ndf 44.89 / 44
p0 2719 ± 2.895
2800
2780
2760
2740
2720
2700
2680
2660
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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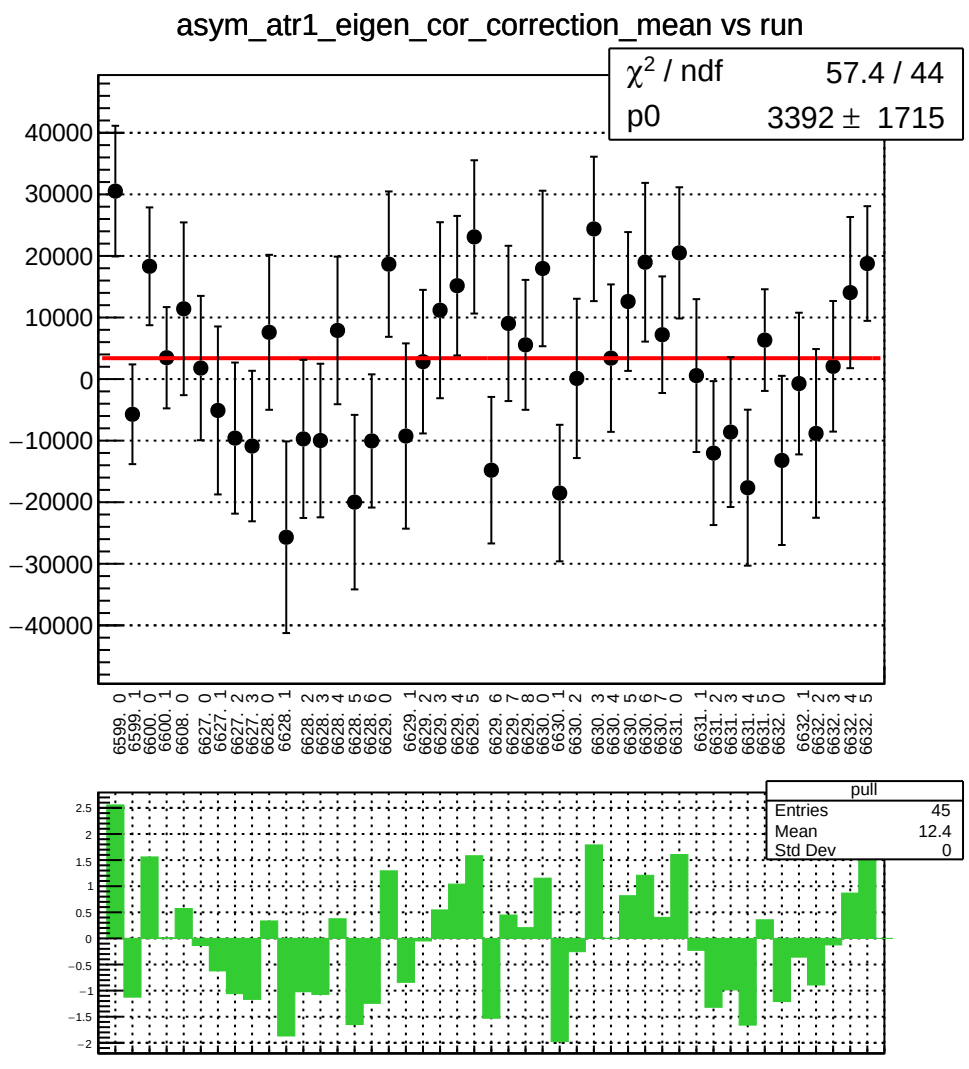
6632. 2
6632. 3
6632. 4
6632. 5


asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 57.4 / 44
p0 3392 ± 1715
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6628. 6
6629. 0
6629. 1
6629. 2
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6629. 4
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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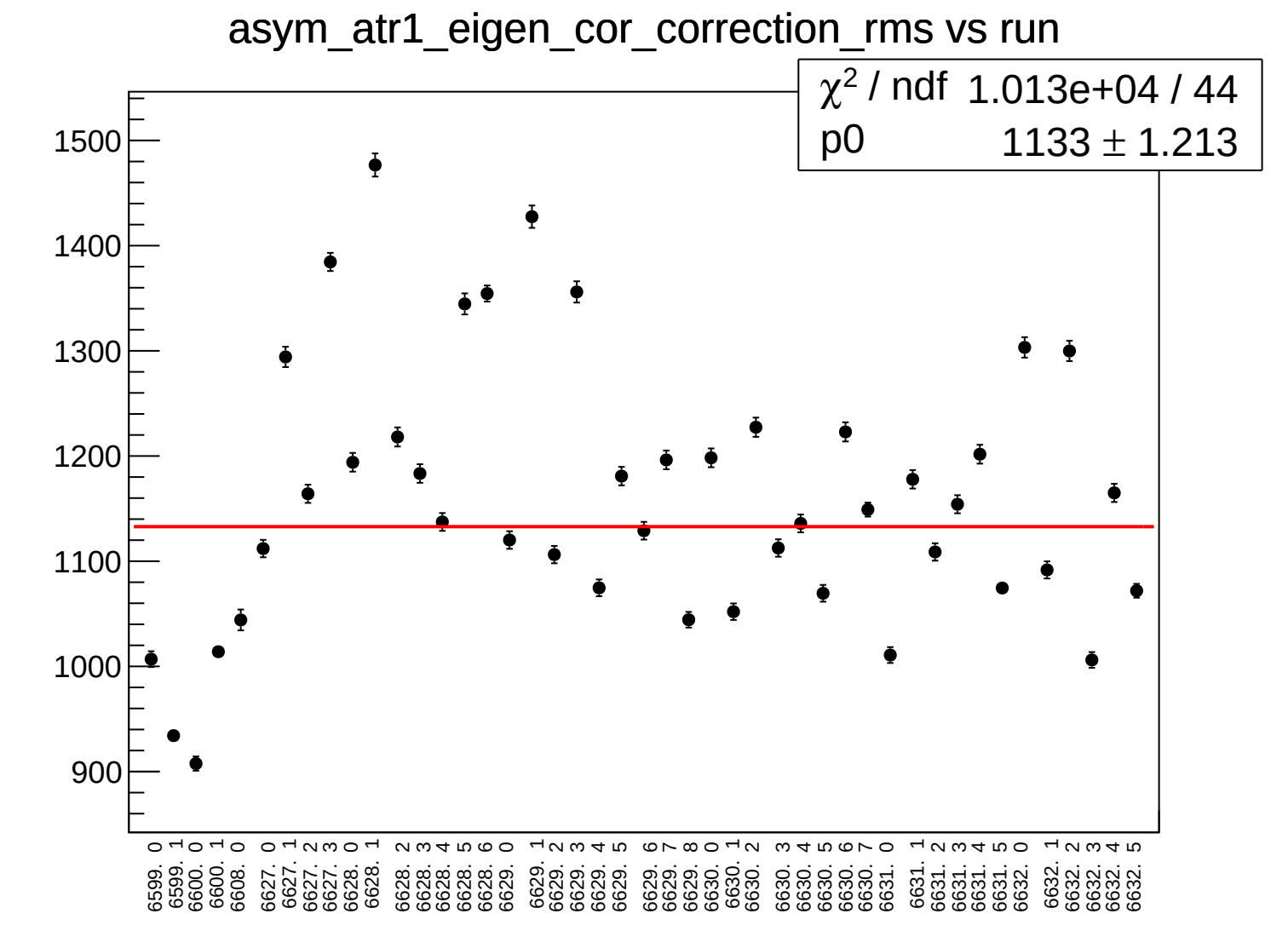
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 12.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.04462
Std Dev 1.128
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 1.013e+04 / 44
p0 1133 ± 1.213
1500
1400
1300
1200
1100
1000
900
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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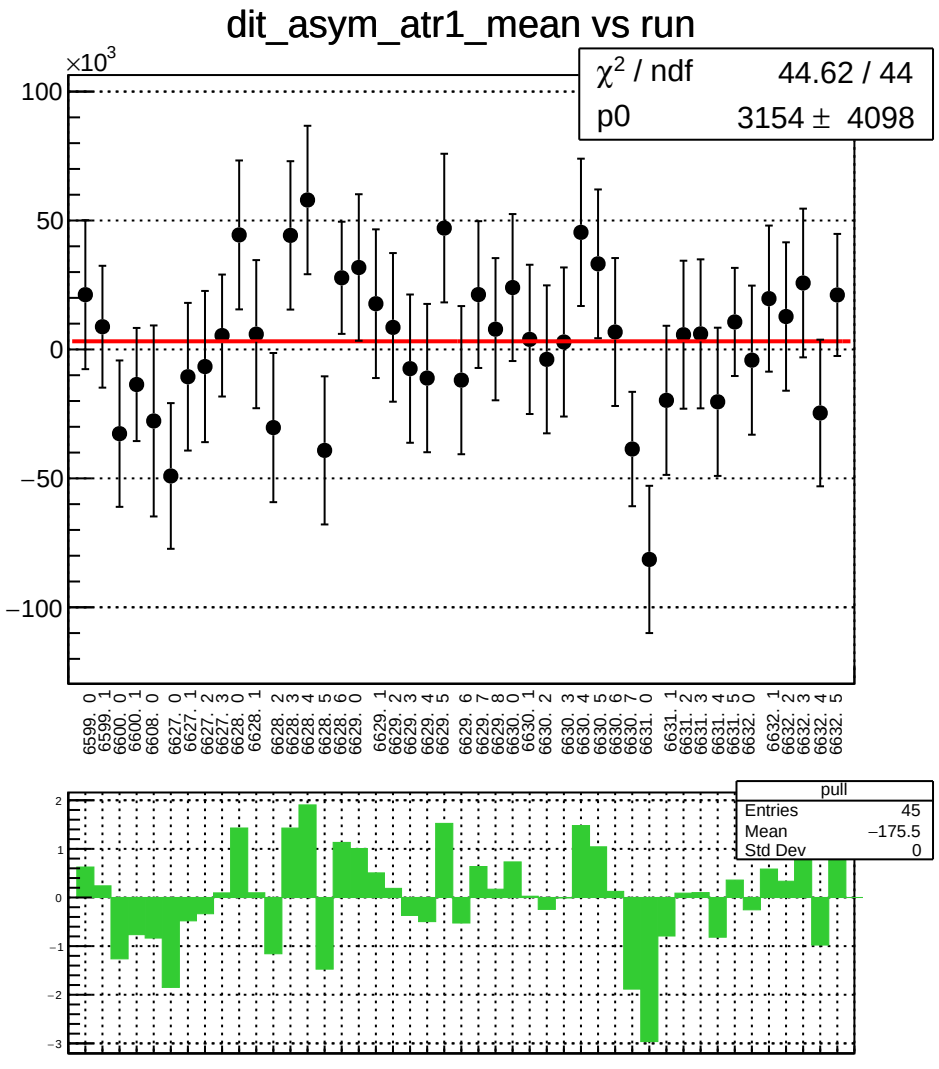
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


dit_asym_atr1_mean vs run
×10^3
χ² / ndf 44.62 / 44
p0 3154 ± 4098
100
50
0
−50
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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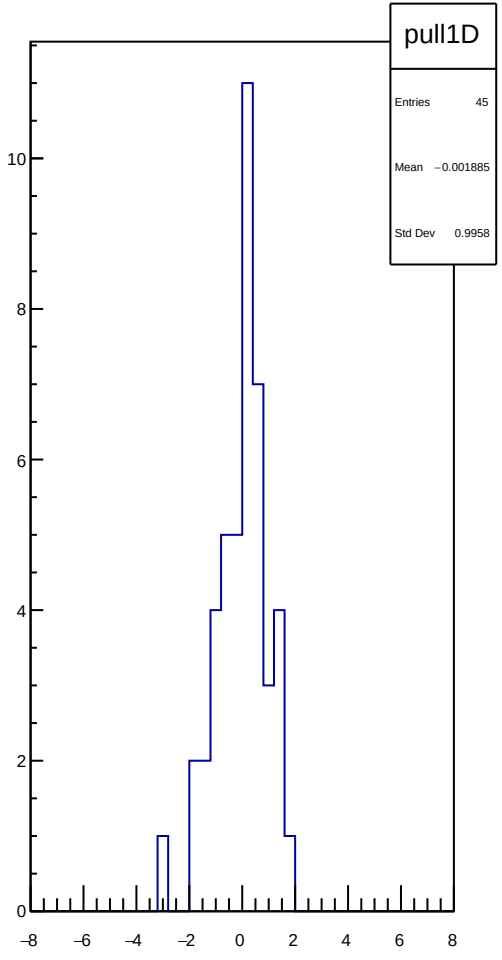
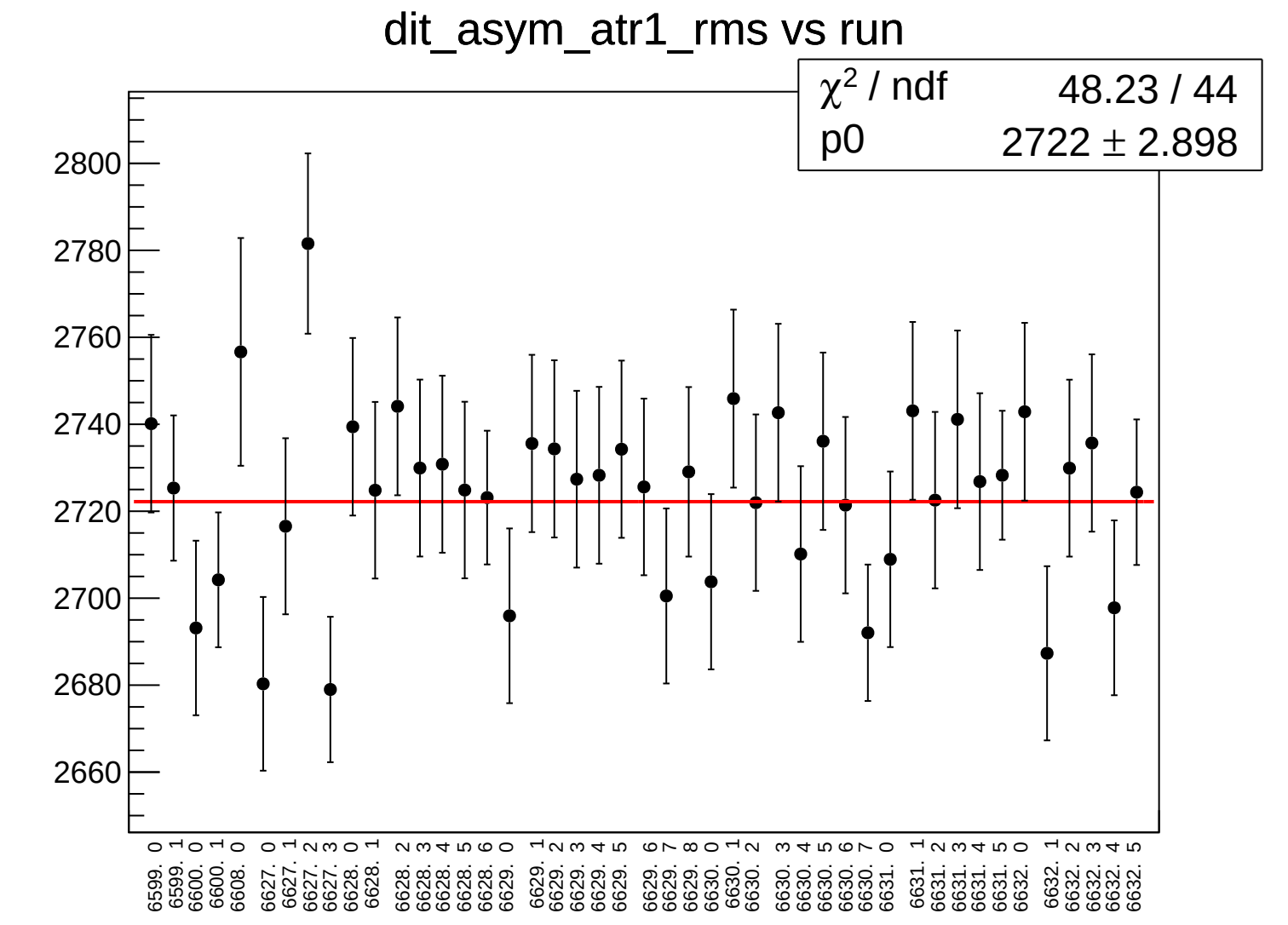
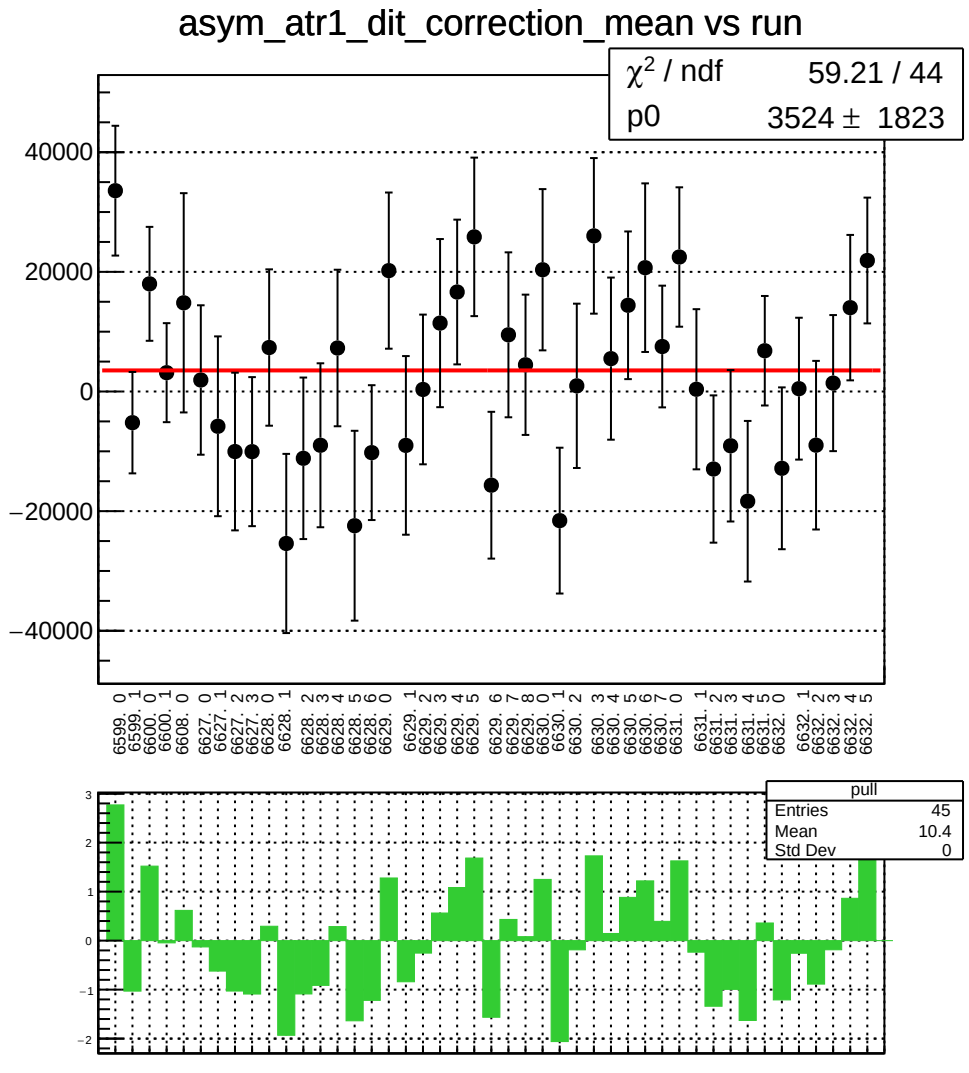
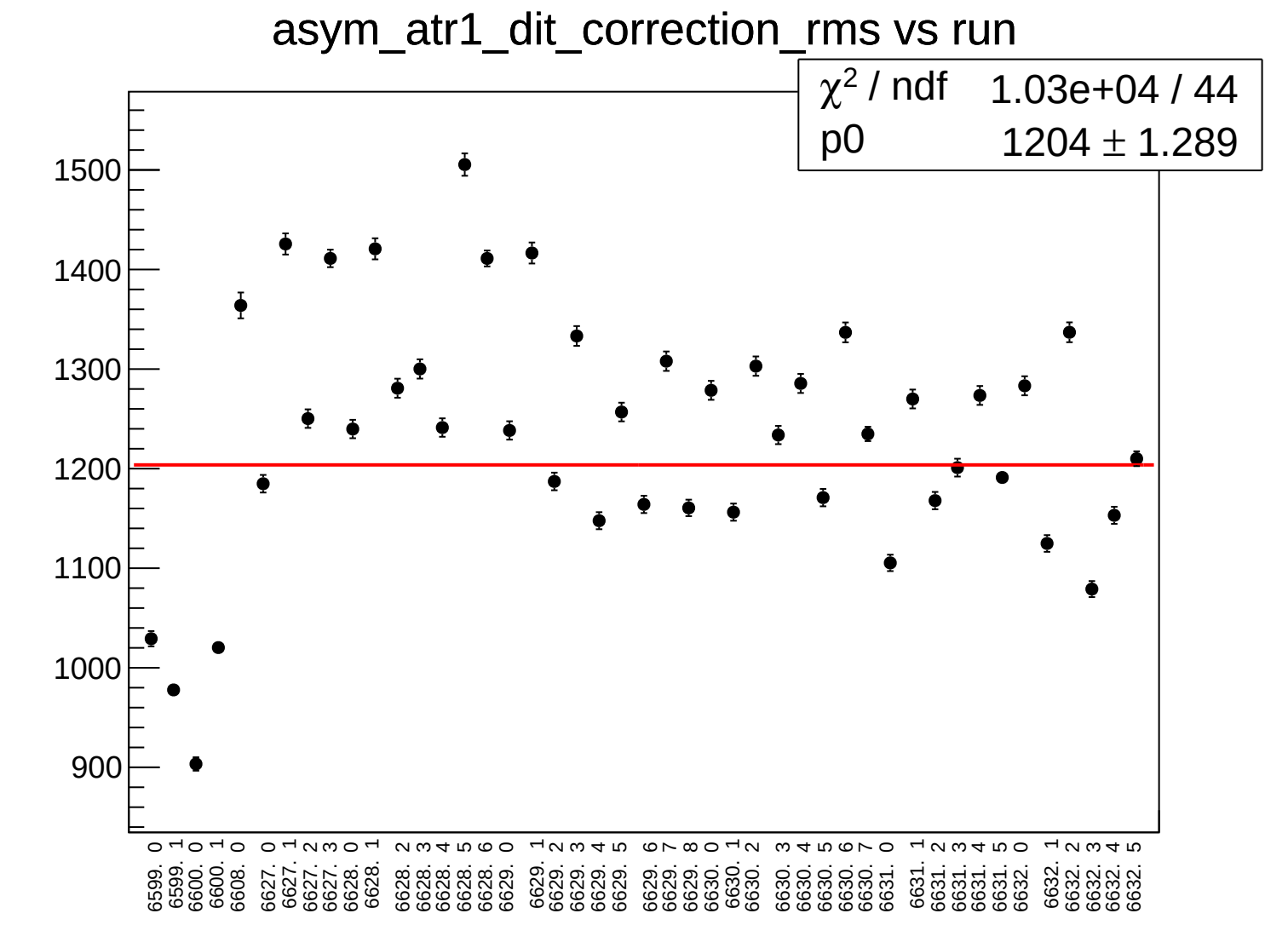
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −175.5
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.001885
Std Dev 0.9958
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atr1_rms vs run
χ² / ndf 48.23 / 44
p0 2722 ± 2.898
2800
2780
2760
2740
2720
2700
2680
2660
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atr1_dit_correction_mean vs run
χ² / ndf 59.21 / 44
p0 3524 ± 1823
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 10.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.03447
Std Dev 1.147
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1_dit_correction_rms vs run
χ² / ndf 1.03e+04 / 44
p0 1204 ± 1.289
1500
1400
1300
1200
1100
1000
900
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 4
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6630. 7
6631. 0
6631. 1
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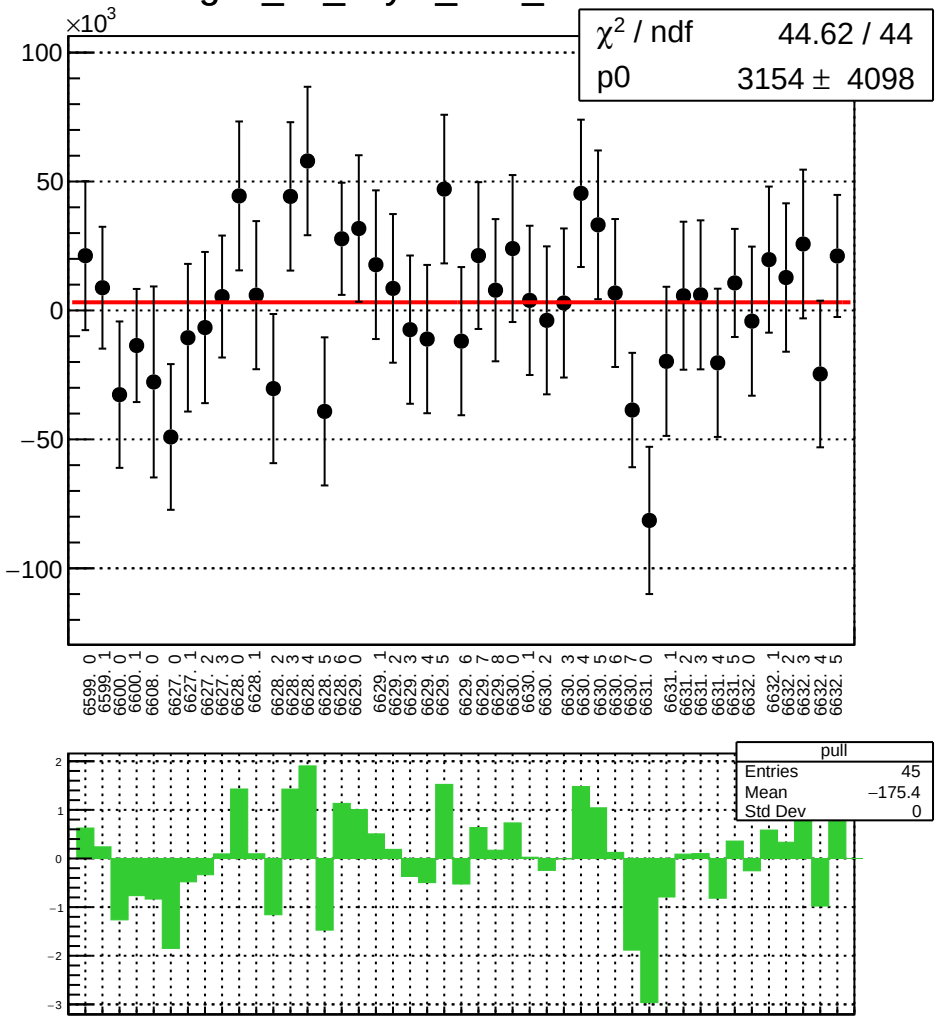
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 44.62 / 44
p0 3154 ± 4098
100
50
0
−50
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
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6629. 0
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6629. 7
6629. 8
6630. 0
6630. 1
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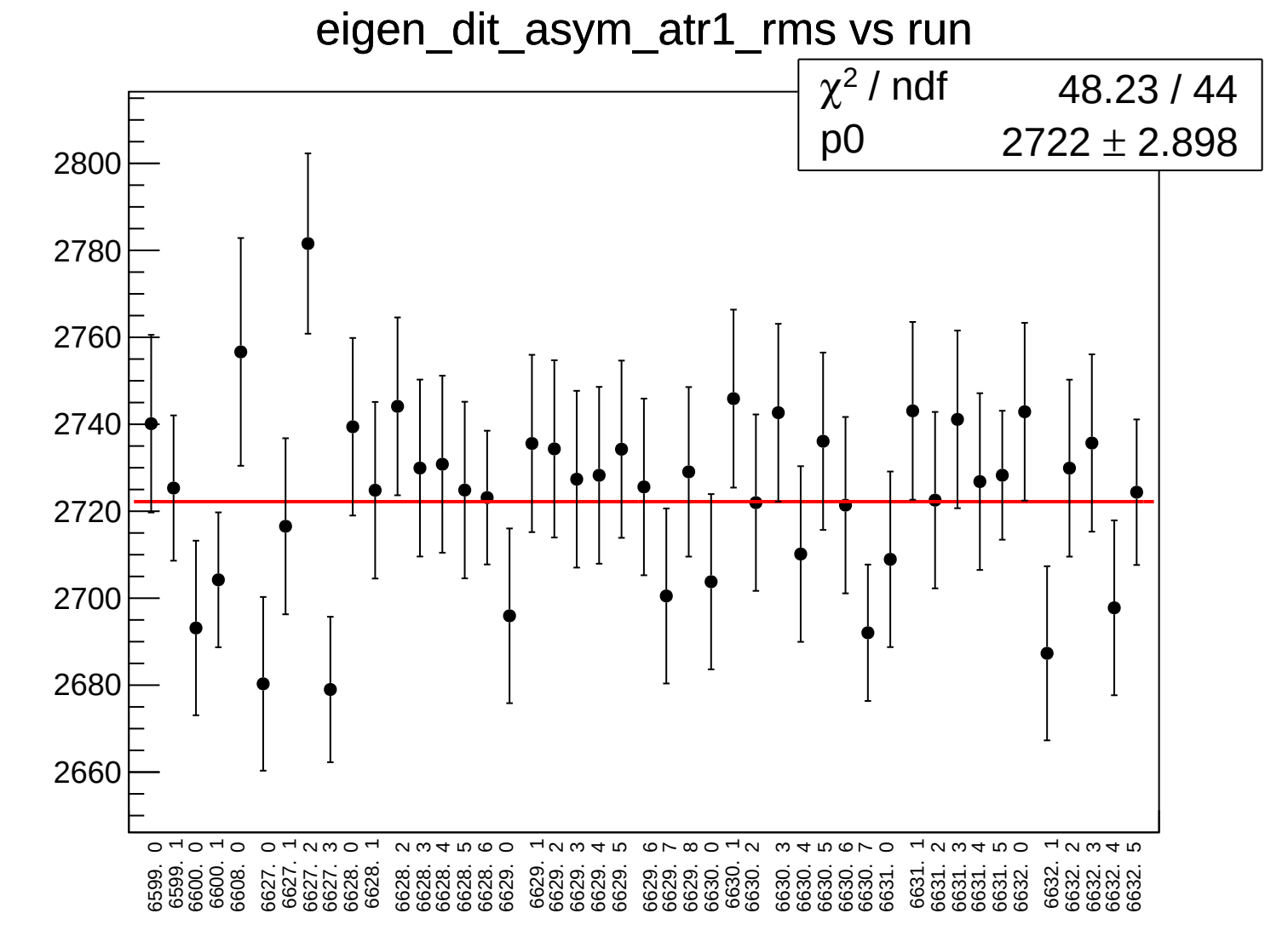
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −175.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.001885
Std Dev 0.9958
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_atr1_rms vs run
χ² / ndf 48.23 / 44
p0 2722 ± 2.898
2800
2780
2760
2740
2720
2700
2680
2660
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 2
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6630. 7
6631. 0
6631. 1
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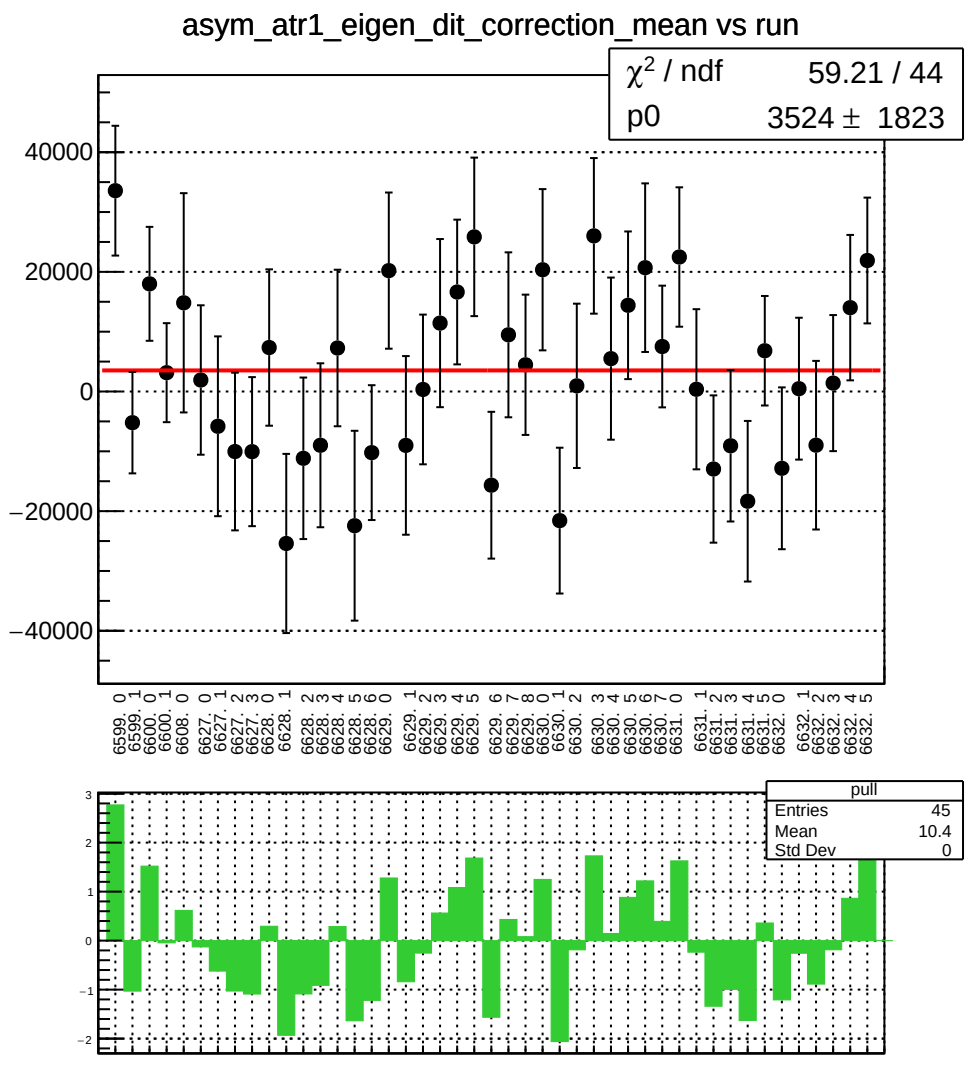
6632. 2
6632. 3
6632. 4
6632. 5


asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 59.21 / 44
p0 3524 ± 1823
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6629. 0
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6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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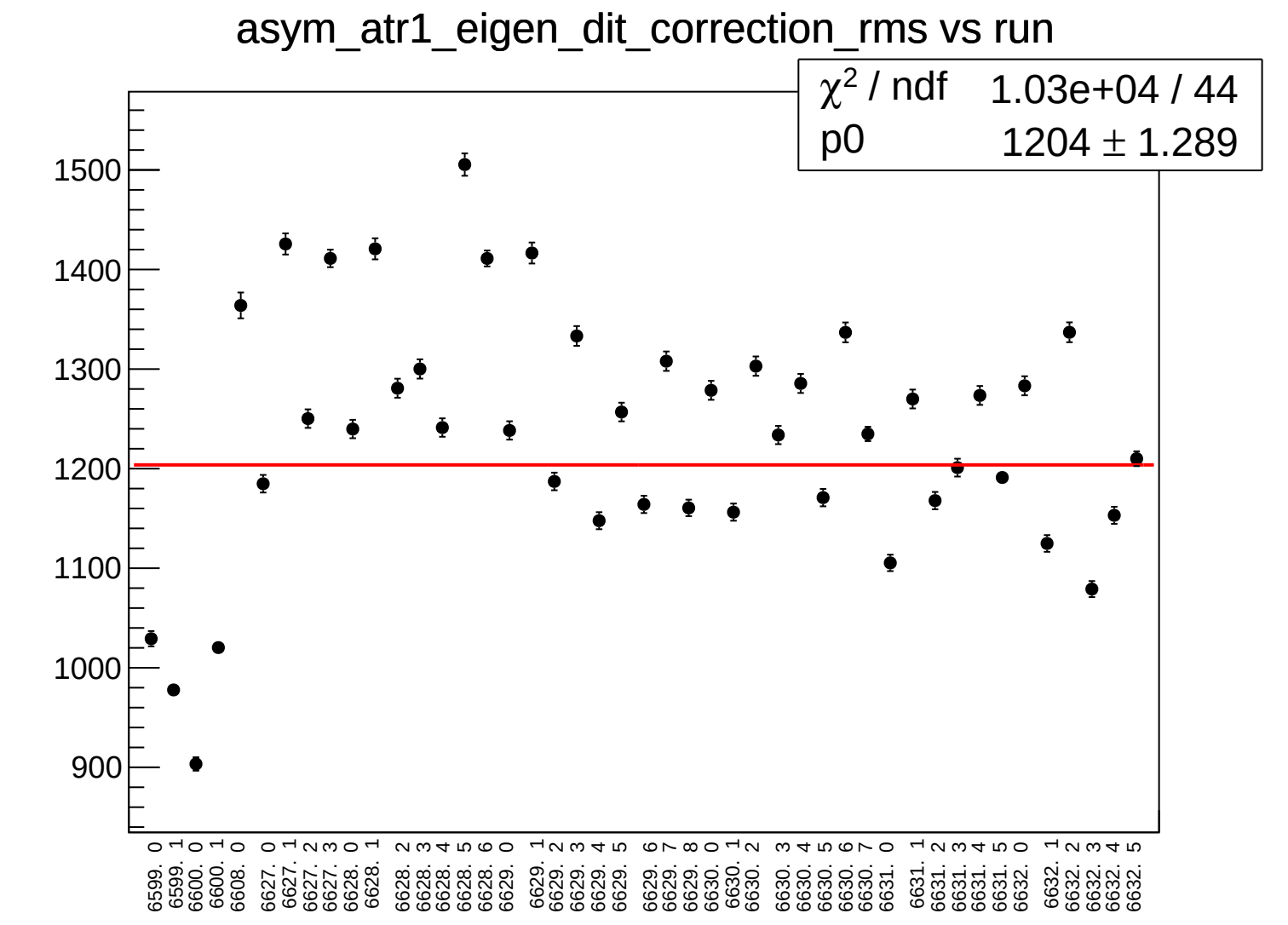
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 10.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.03447
Std Dev 1.147
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 1.03e+04 / 44
p0 1204 ± 1.289
1500
1400
1300
1200
1100
1000
900
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
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6631. 1
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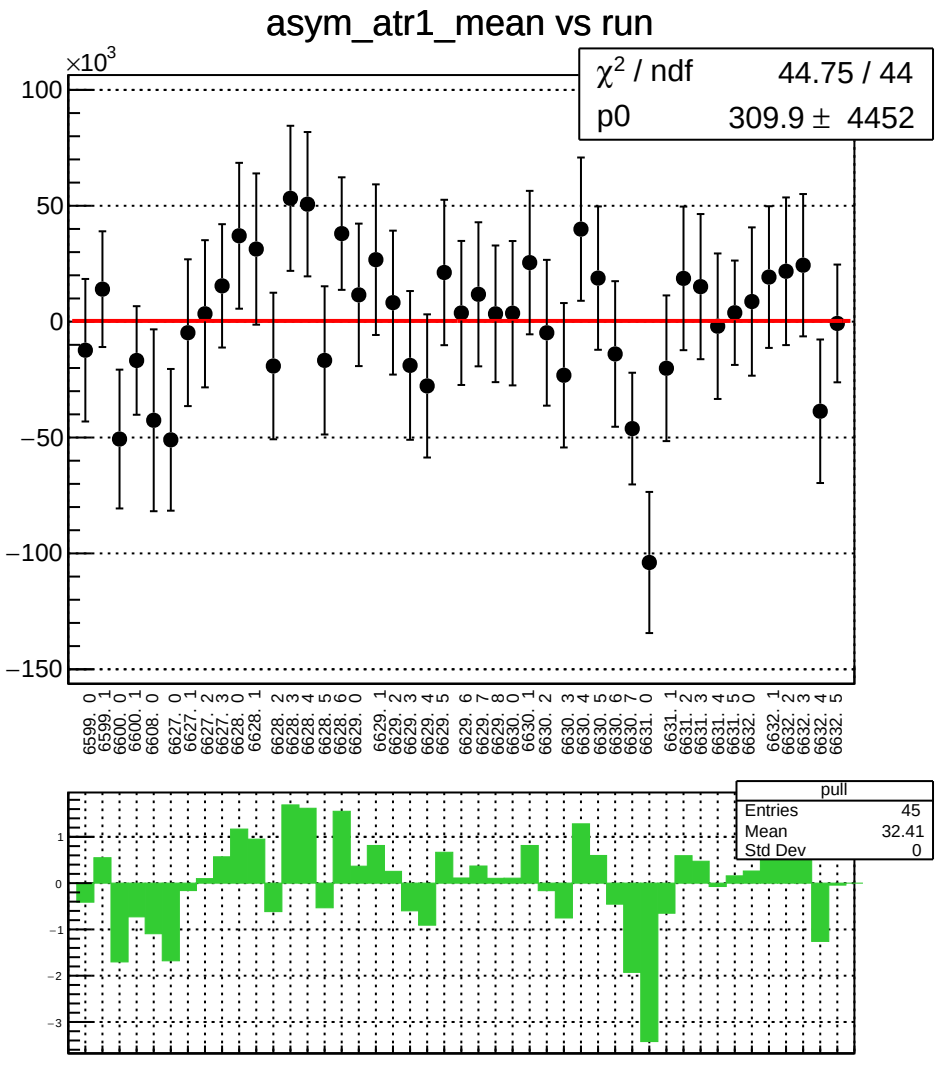
6632. 4
6632. 5


asym_atr1_mean vs run
×10^3
χ² / ndf 44.75 / 44
p0 309.9 ± 4452
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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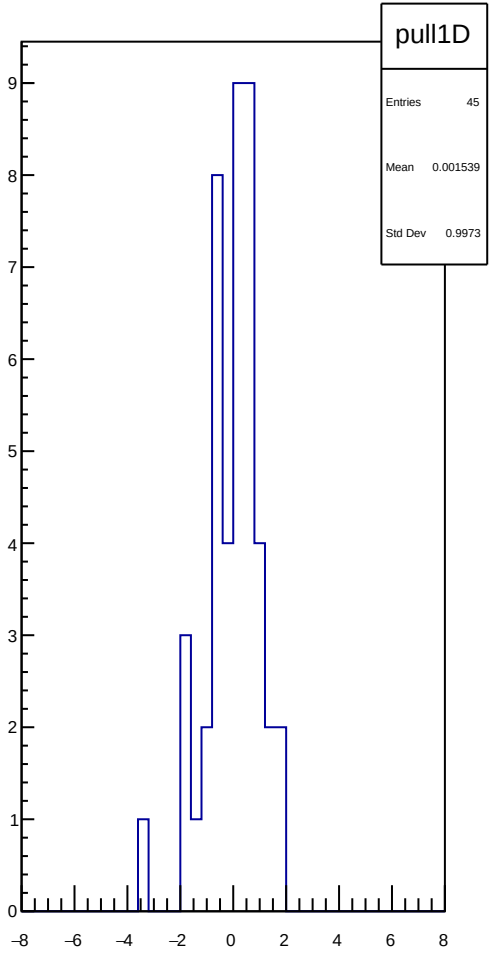
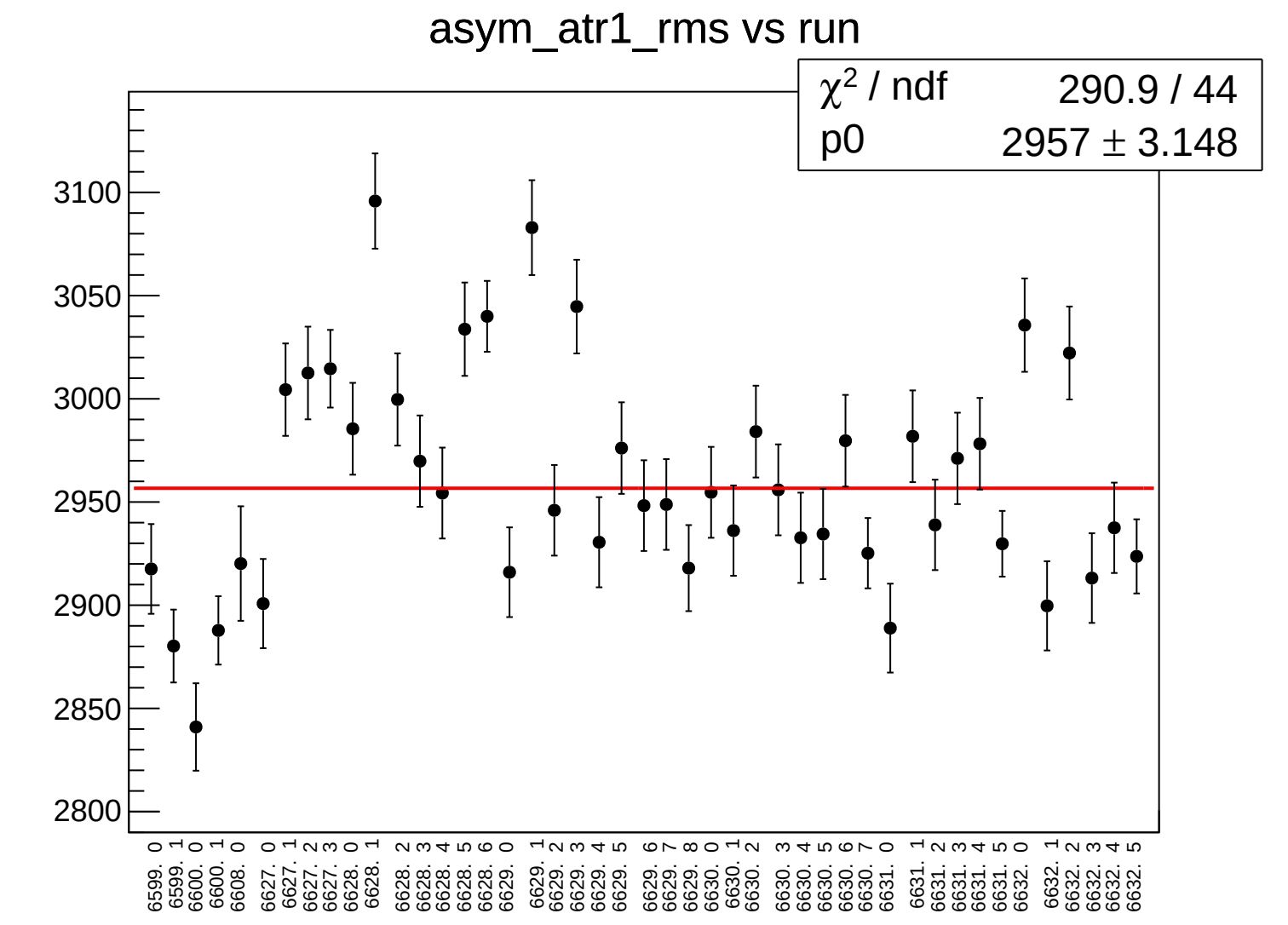
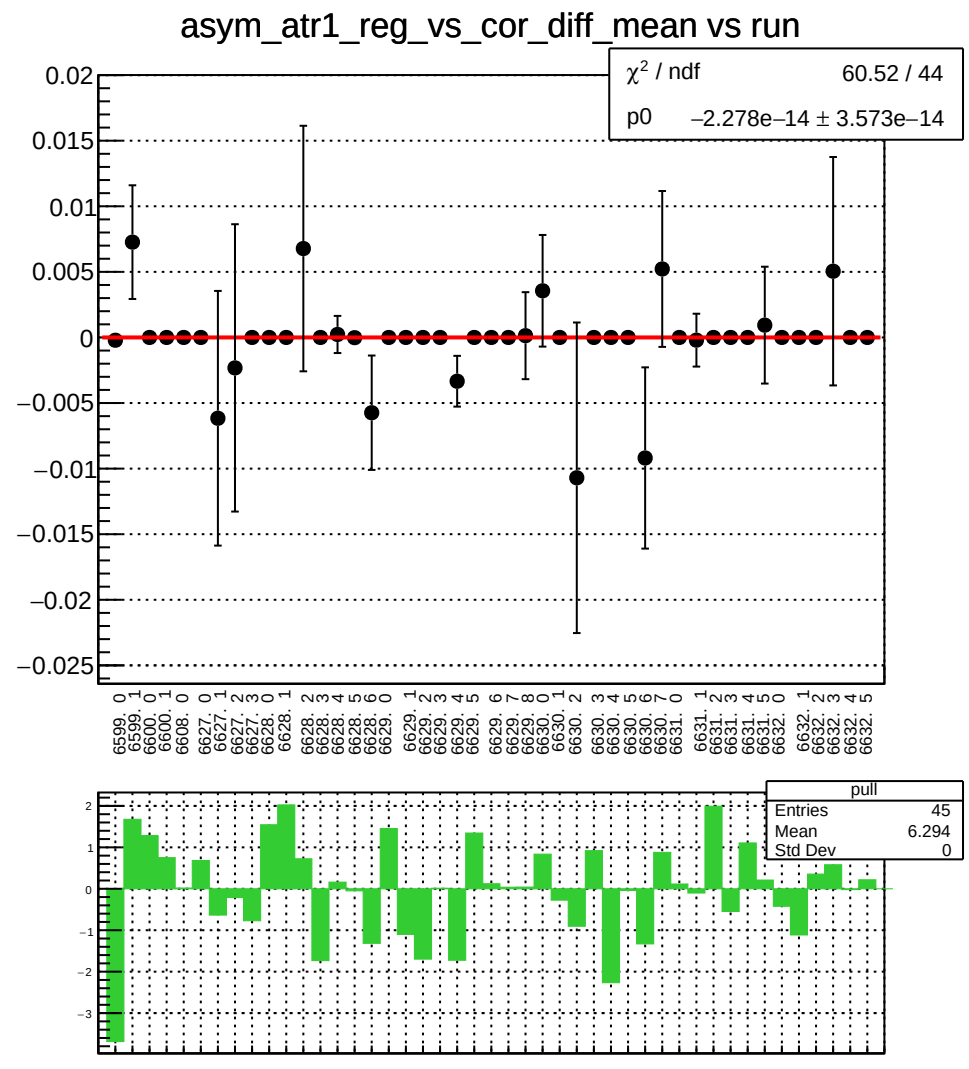
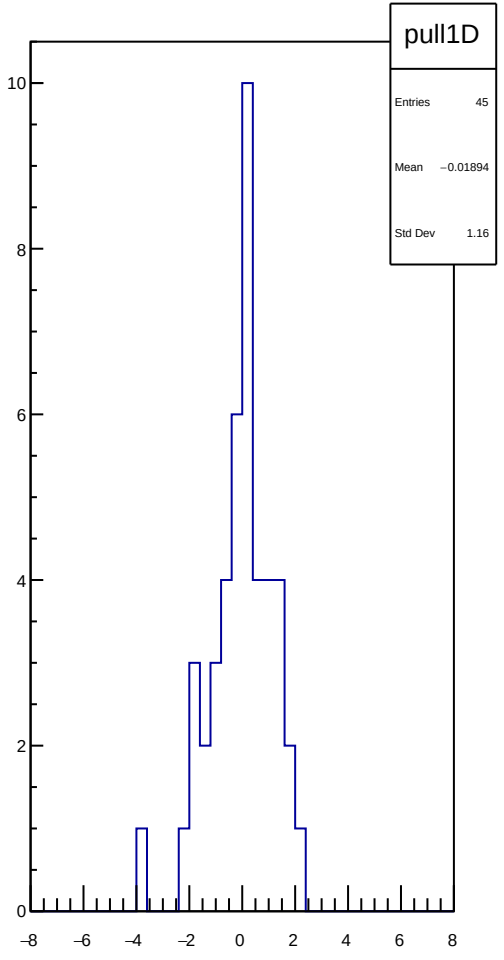
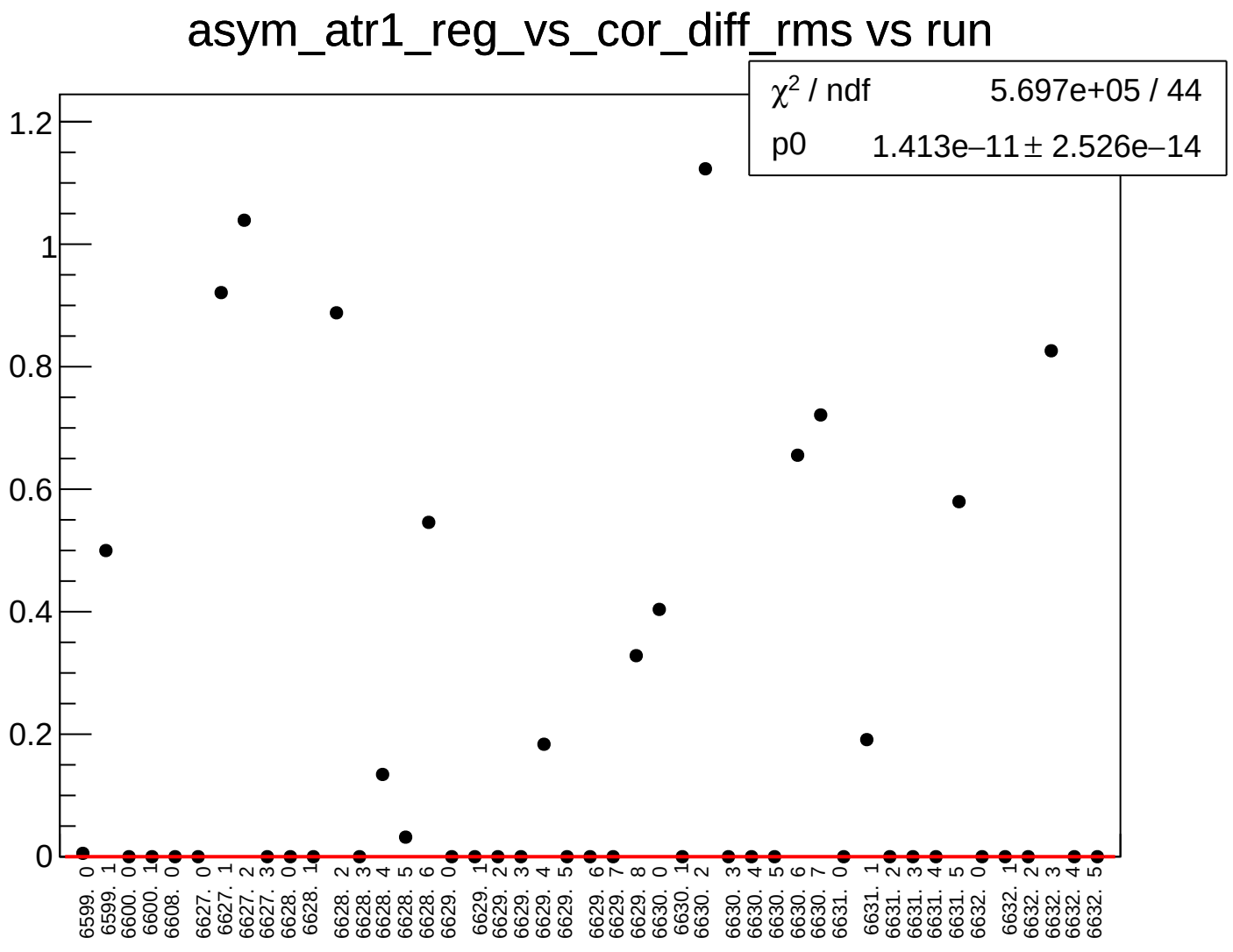
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 32.41
Std Dev 0
1
0
−1
−2
−3

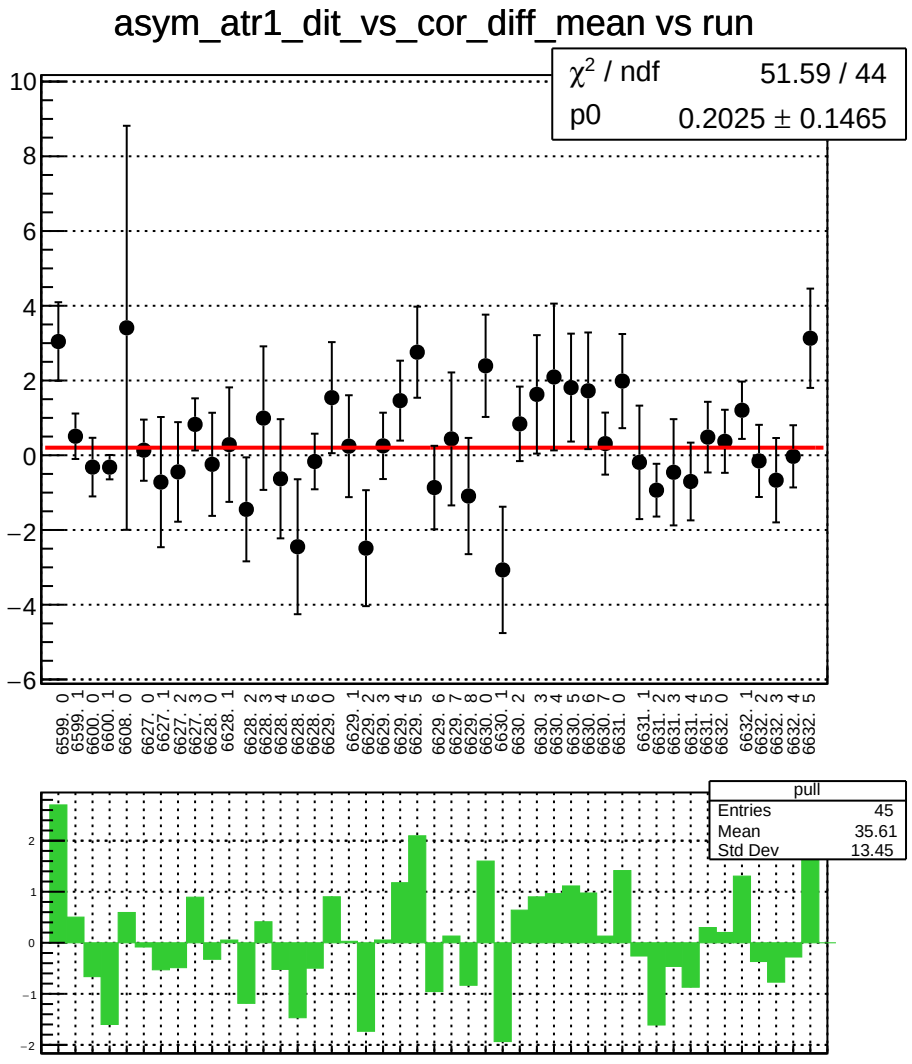

pull1D
Entries 45
Mean 0.001539
Std Dev 0.9973
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

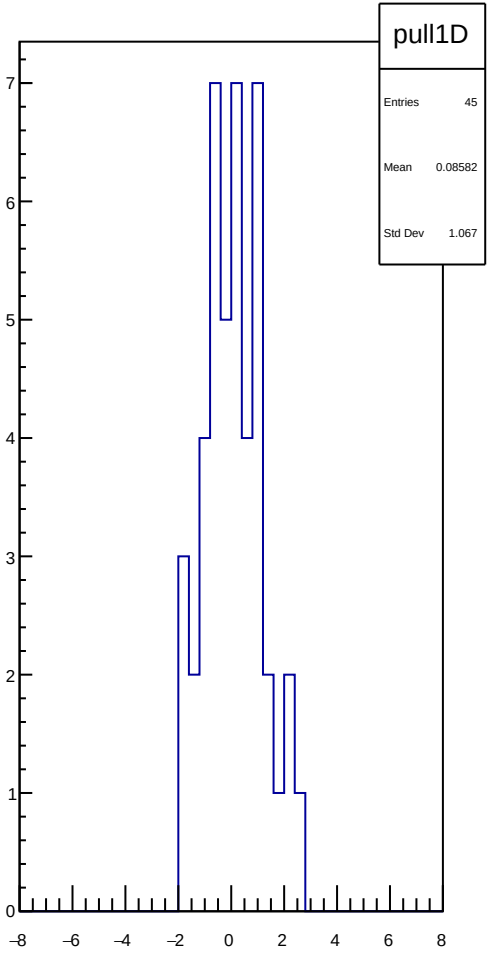

asym_atr1_rms vs run
χ² / ndf 290.9 / 44
p0 2957 ± 3.148
3100
3050
3000
2950
2900
2850
2800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

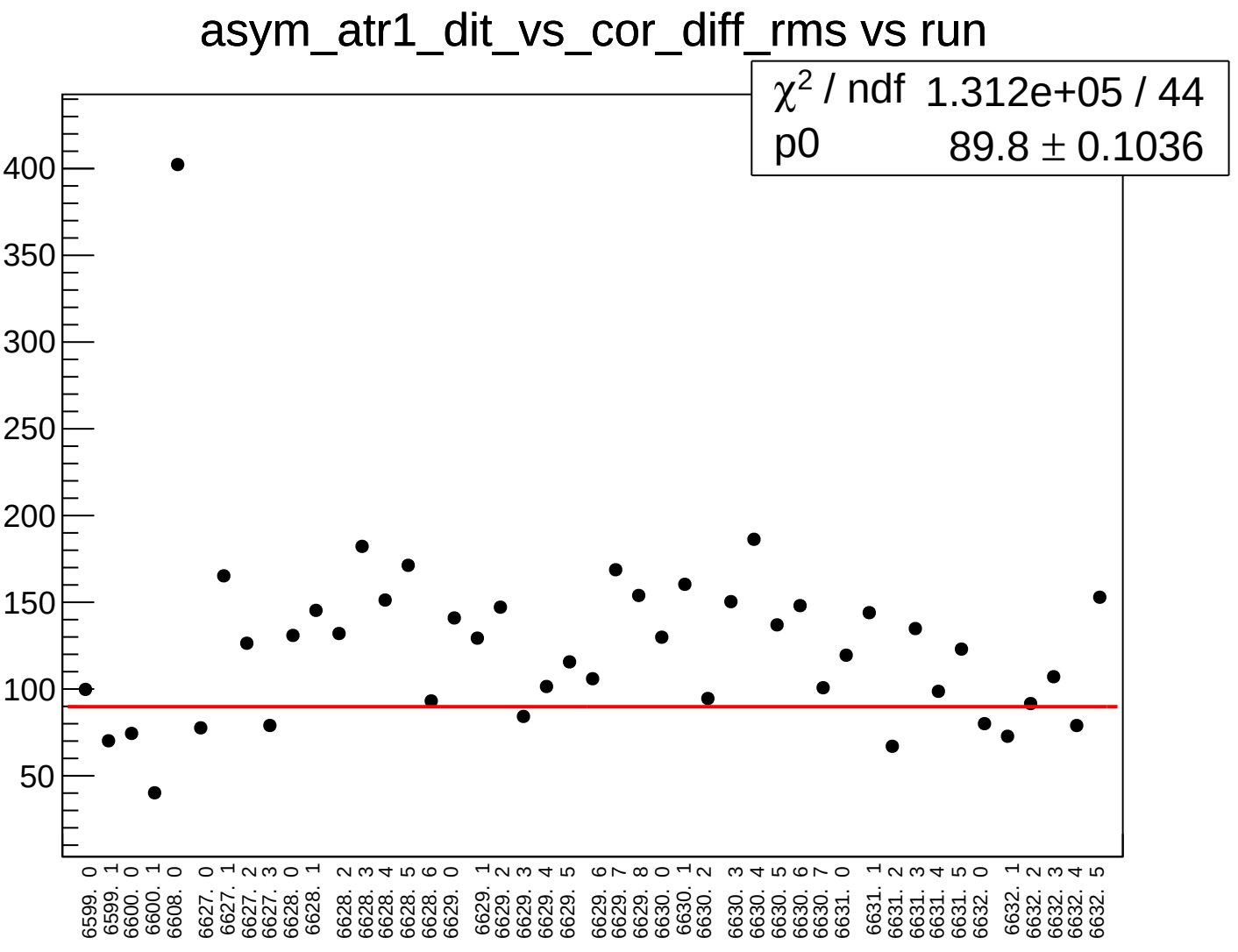

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 60.52 / 44
p0 −2.278e−14 ± 3.573e−14
pull
Entries 45
Mean 6.294
Std Dev 0

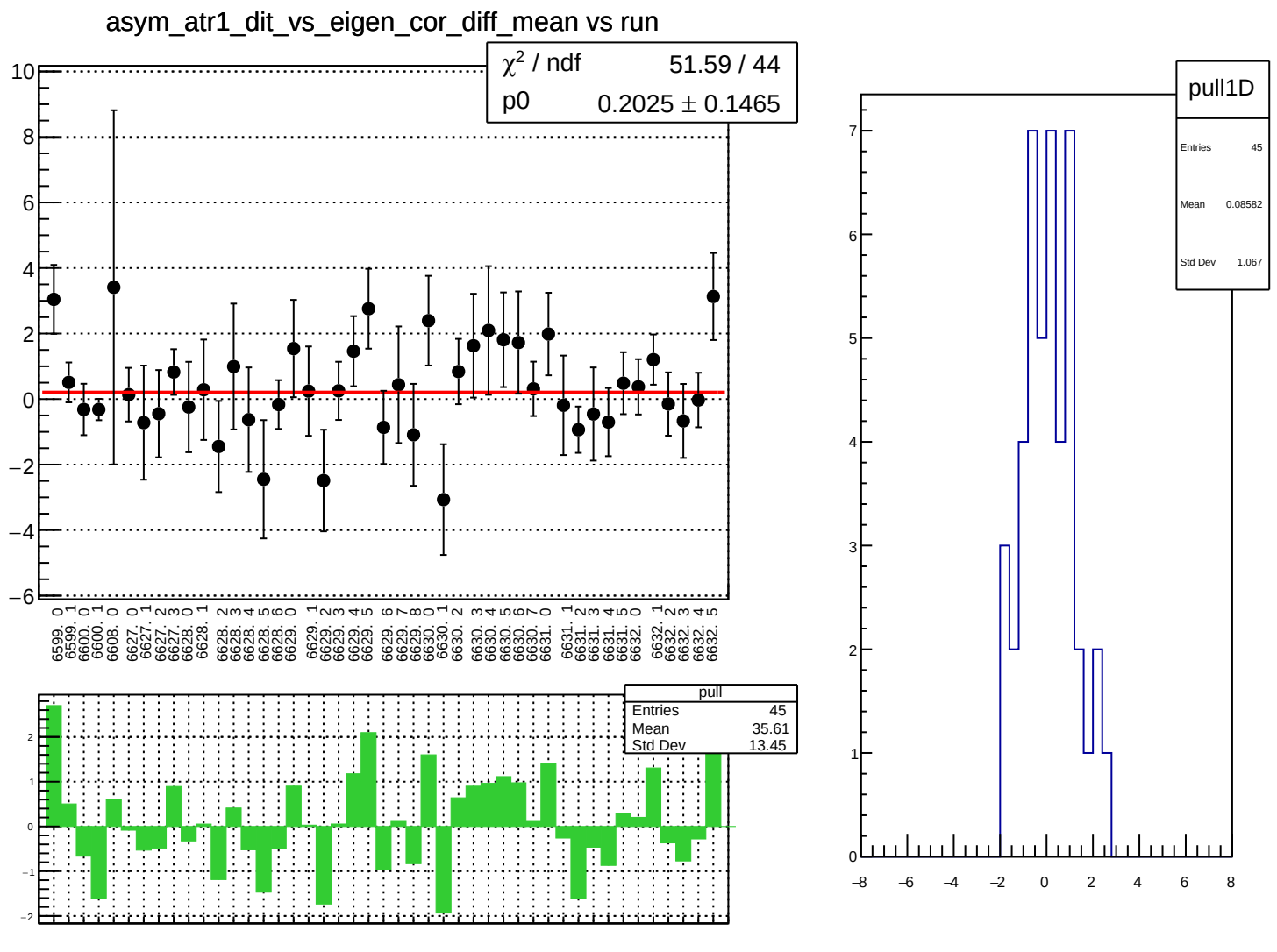

pull1D
Entries 45
Mean −0.01894
Std Dev 1.16

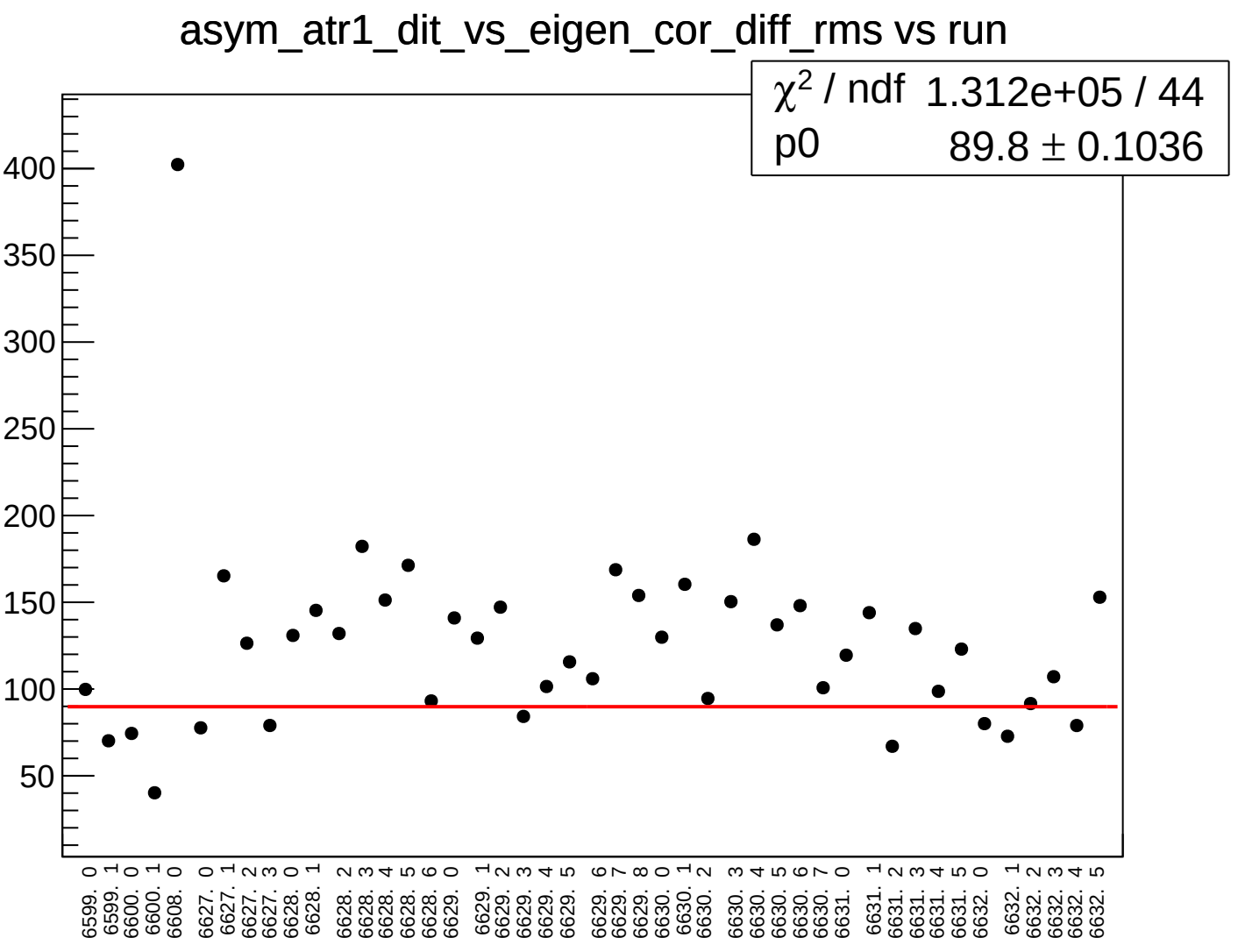

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 5.697e+05 / 44
p0 1.413e−11 ± 2.526e−14
1.2
1
0.8
0.6
0.4
0.2
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

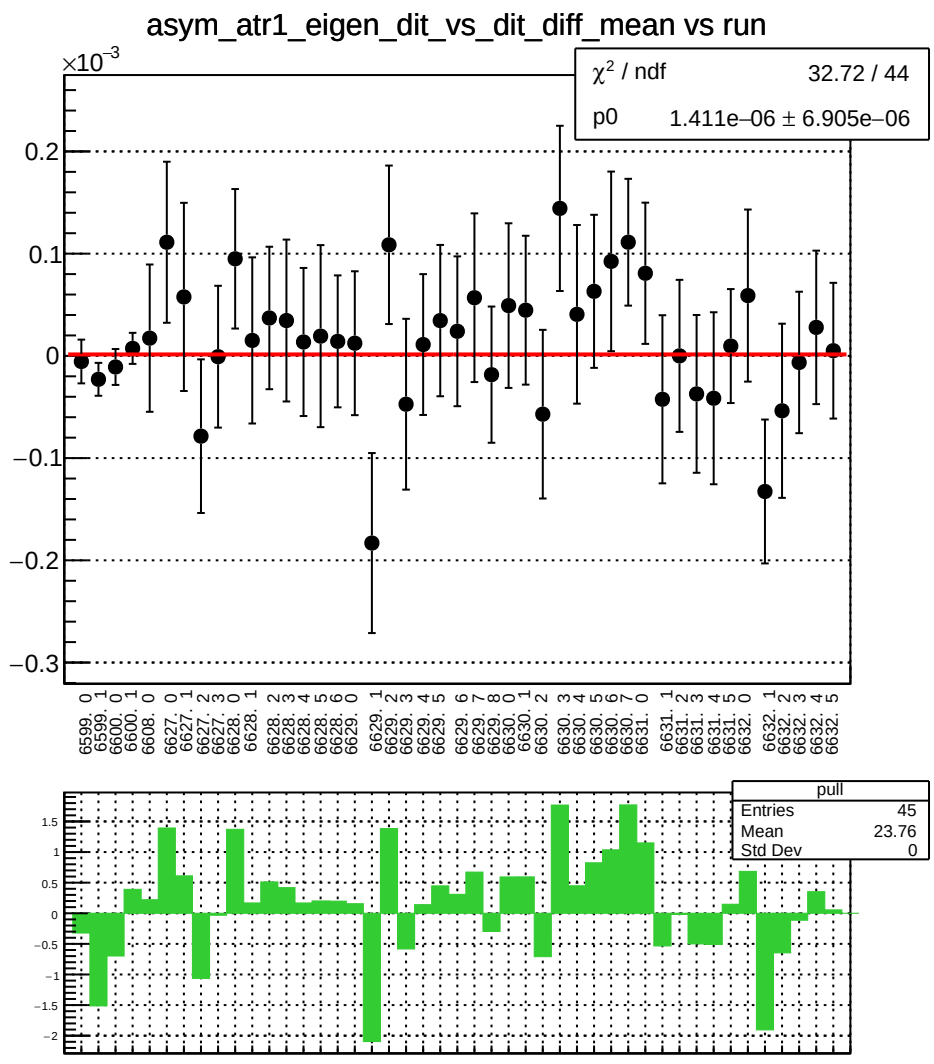

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 51.59 / 44
p0 0.2025 ± 0.1465
pull
Entries 45
Mean 35.61
Std Dev 13.45

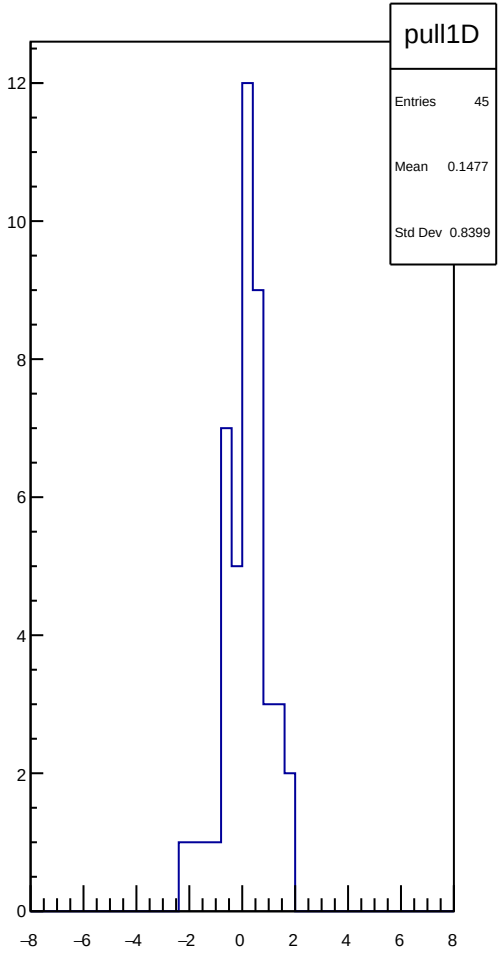

pull1D
Entries 45
Mean 0.08582
Std Dev 1.067

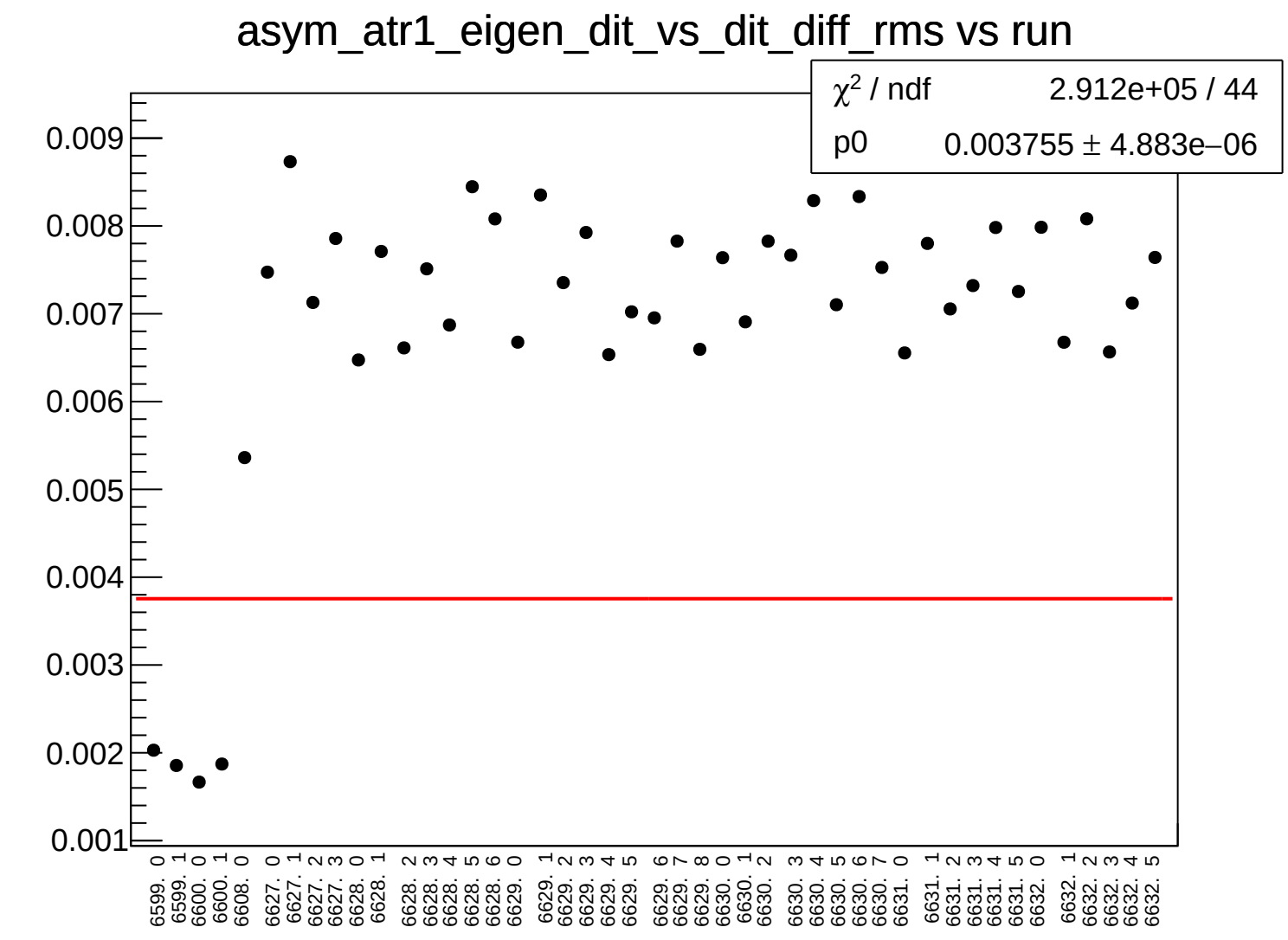

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 1.312e+05 / 44
p0 89.8 ± 0.1036
400
350
300
250
200
150
100
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

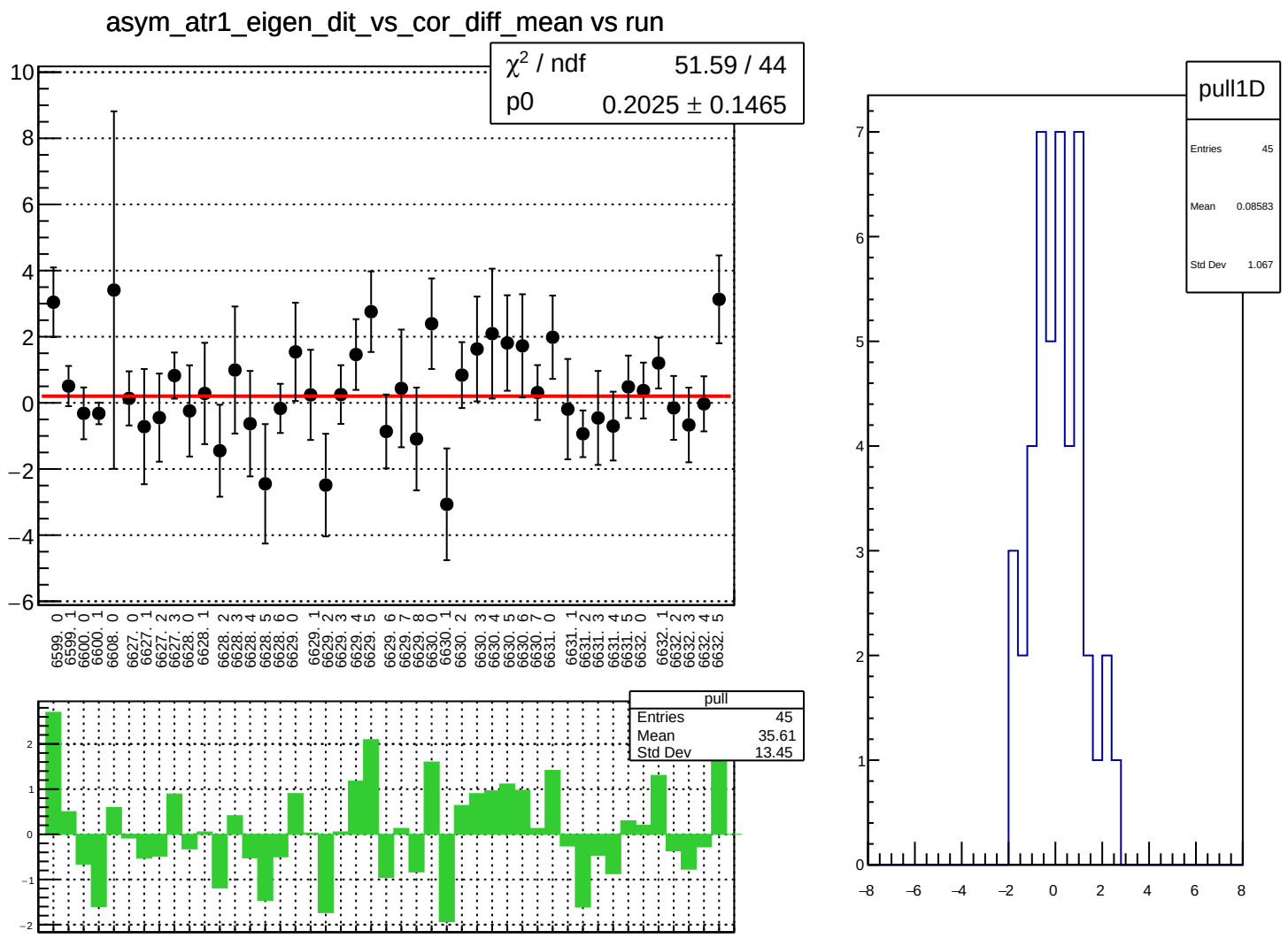

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.59 / 44
p0 0.2025 ± 0.1465
pull
Entries 45
Mean 35.61
Std Dev 13.45
pull1D
Entries 45
Mean 0.08582
Std Dev 1.067

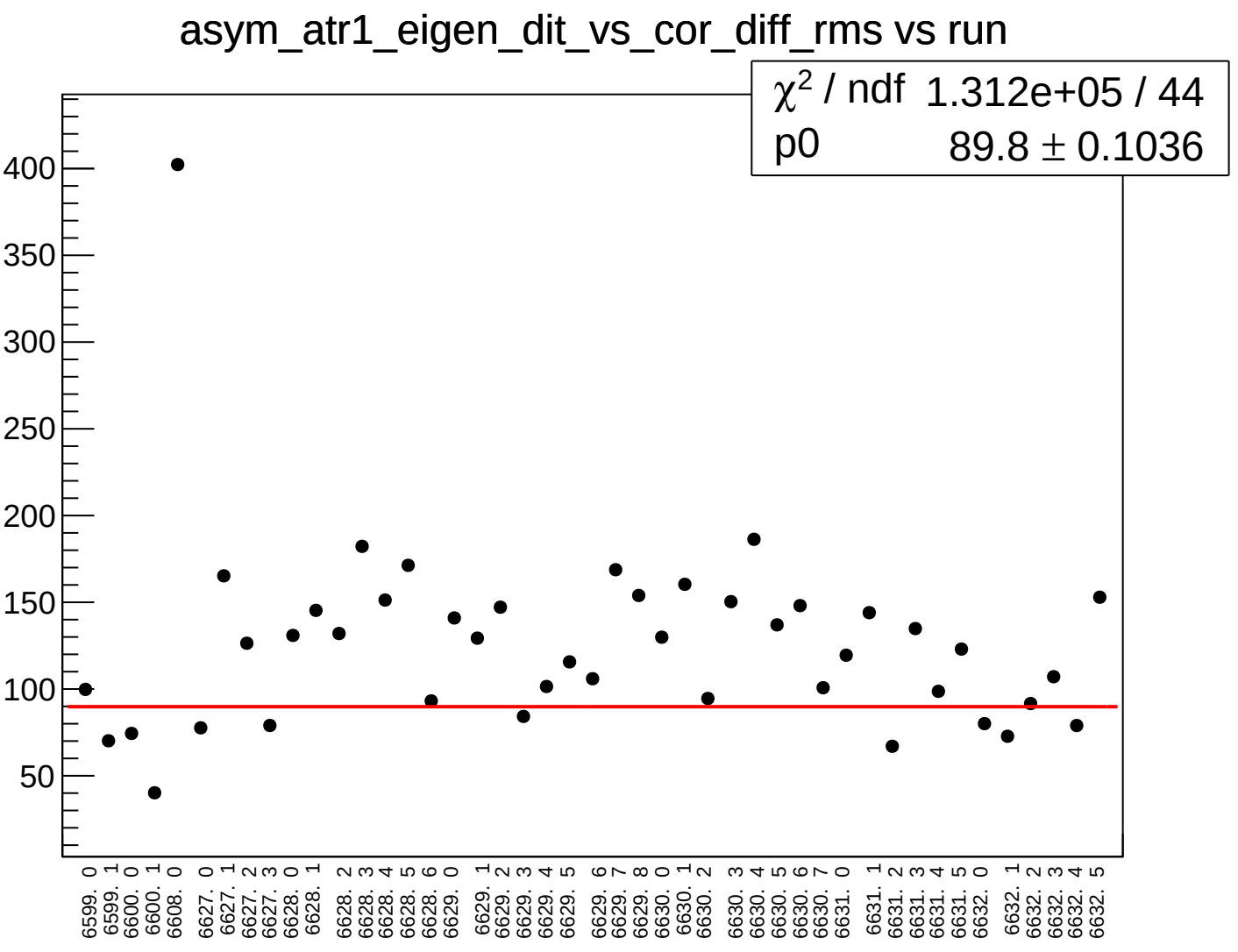

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.312e+05 / 44
p0 89.8 ± 0.1036
400
350
300
250
200
150
100
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

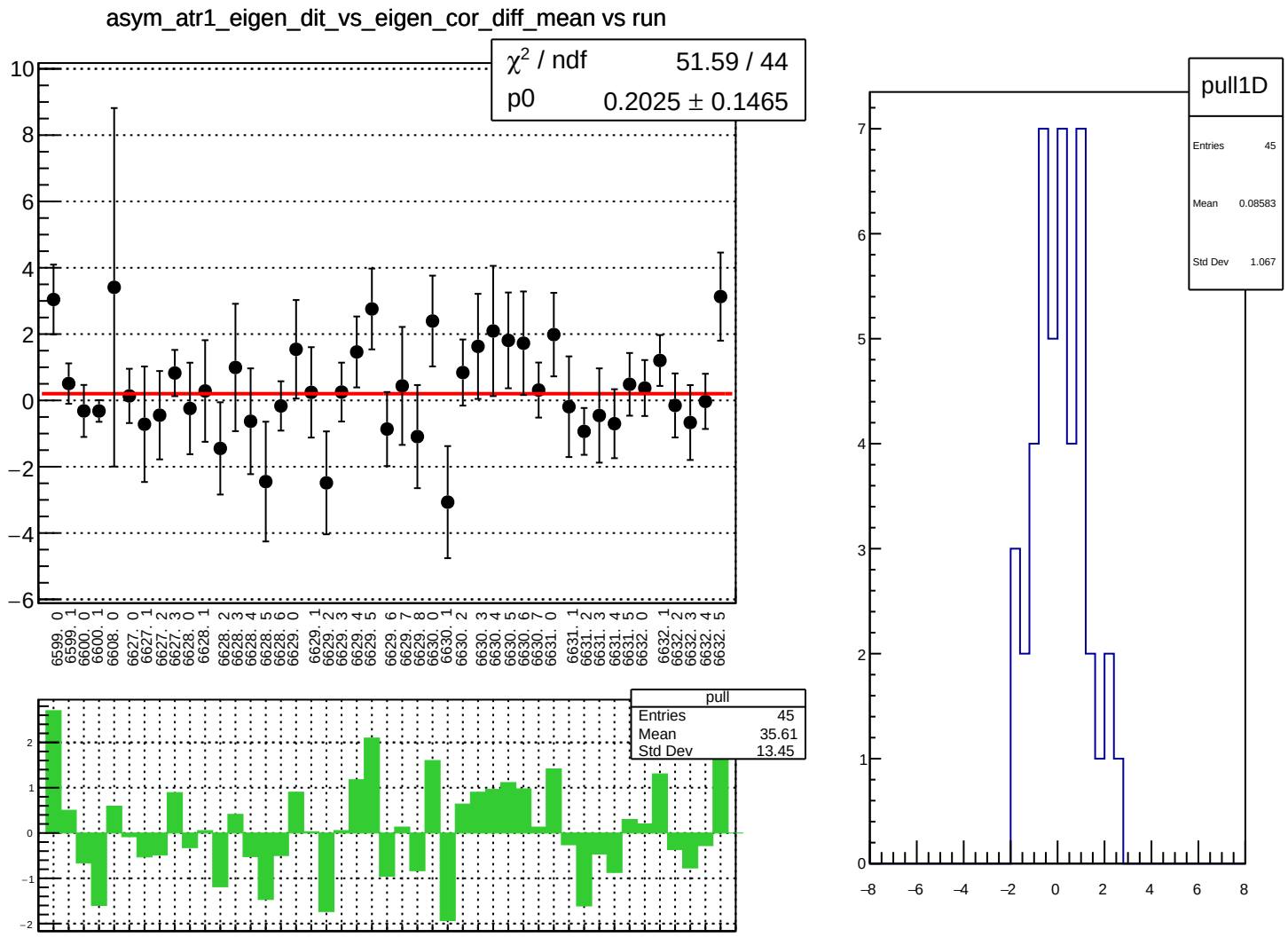

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 32.72 / 44
p0 1.411e−06 ± 6.905e−06
0.2
0.1
0
−0.1
−0.2
−0.3
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 23.76
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

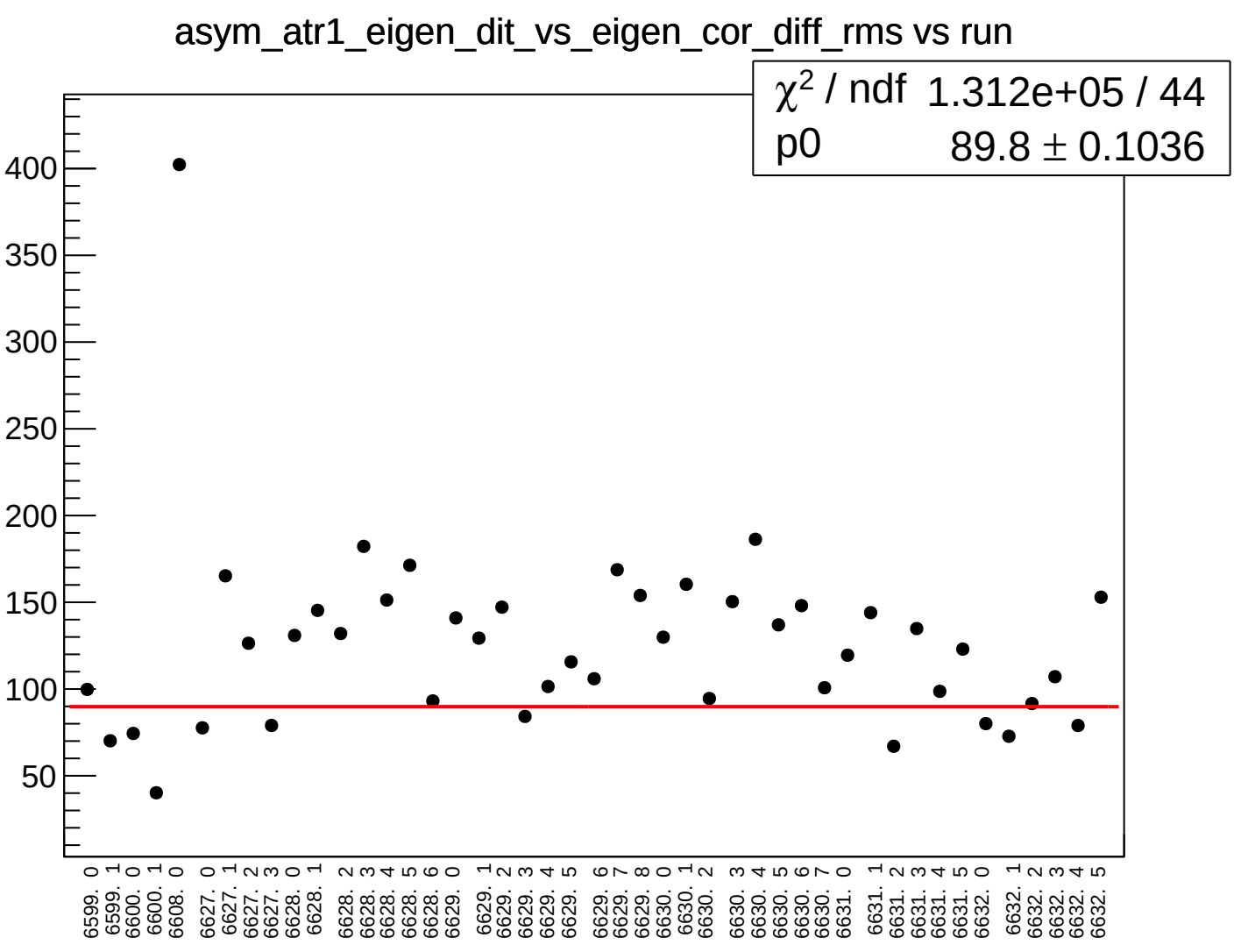

pull1D
Entries 45
Mean 0.1477
Std Dev 0.8399
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

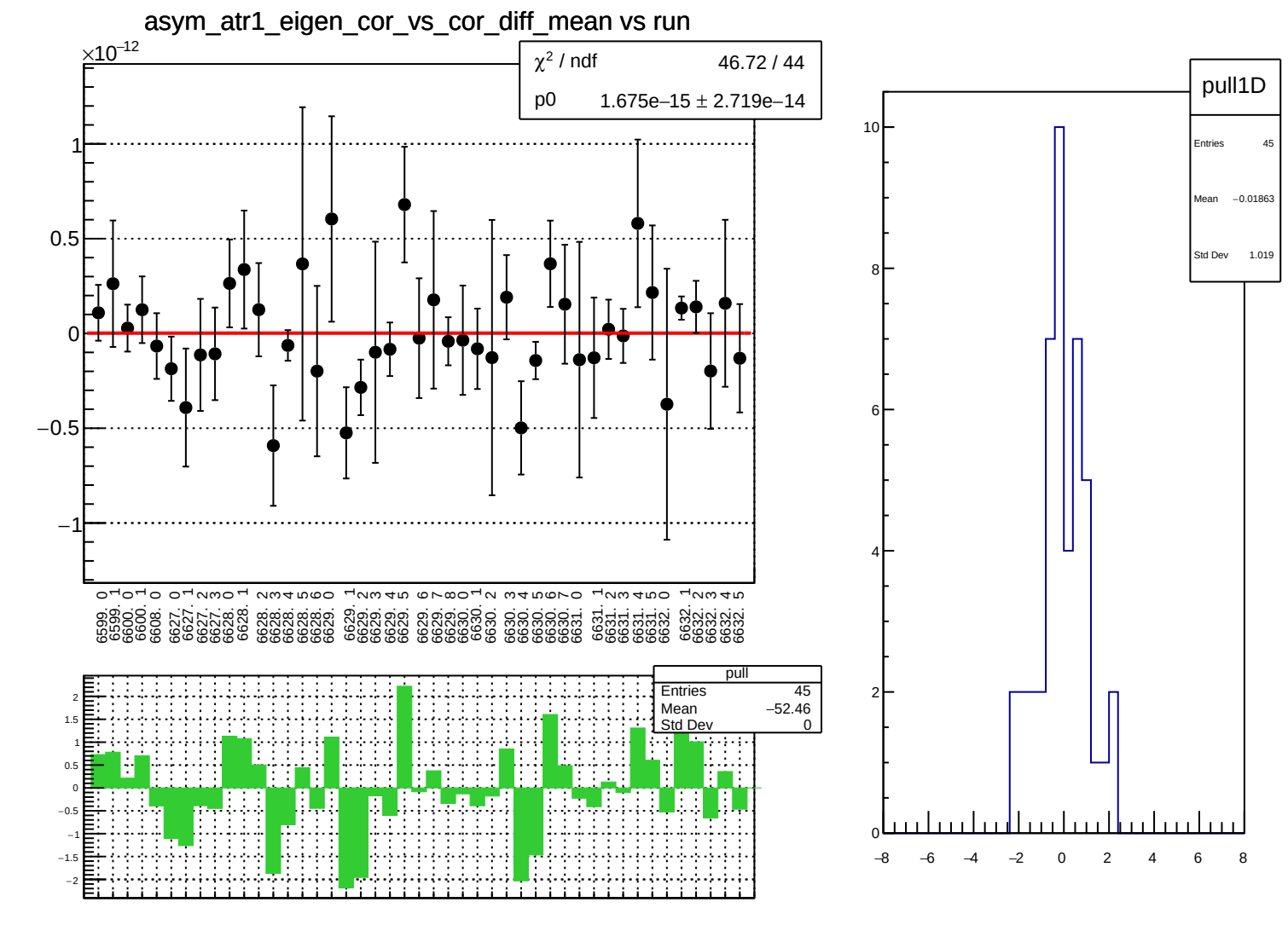

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.912e+05 / 44
p0 0.003755 ± 4.883e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

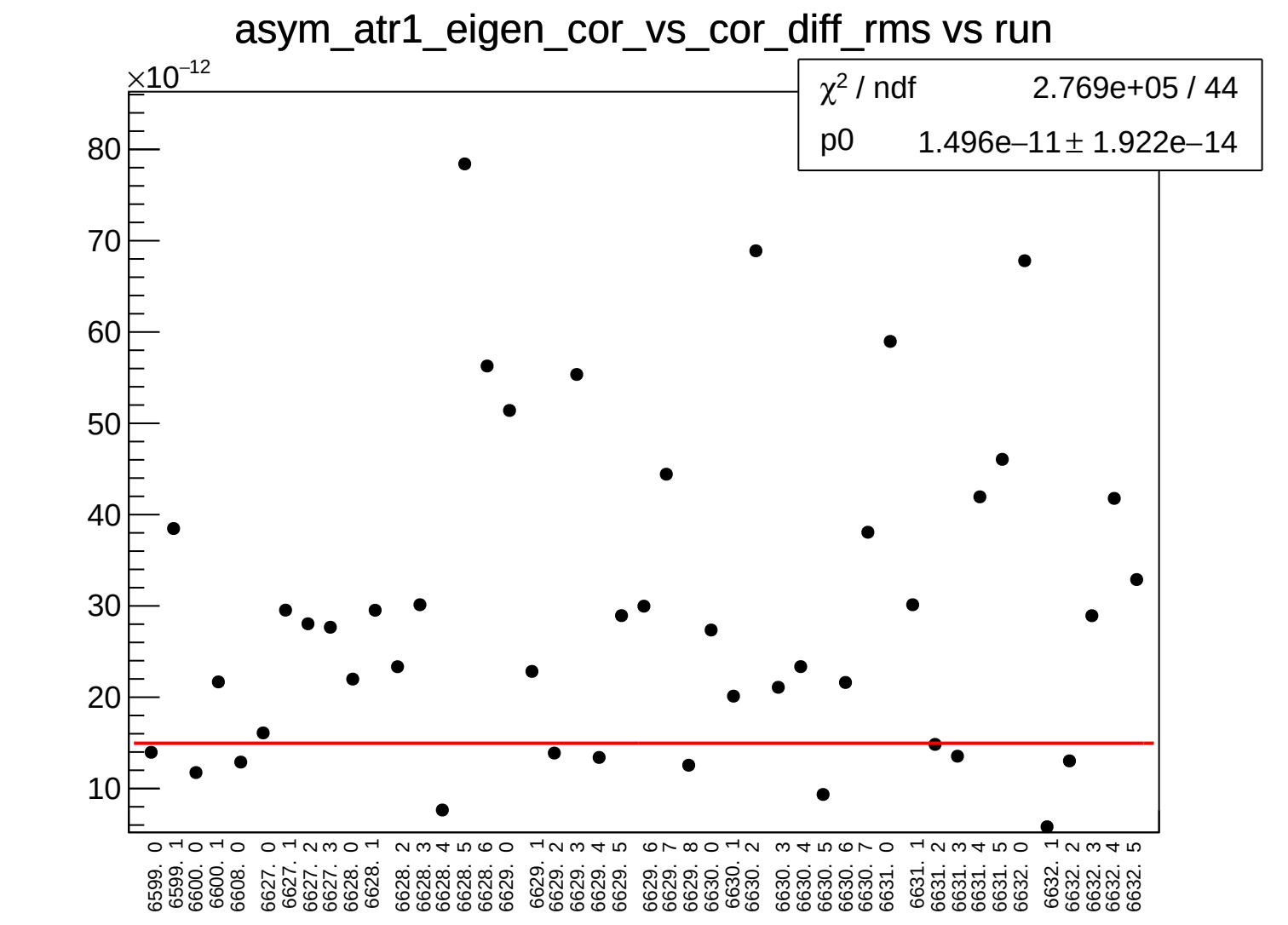

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 51.59 / 44
p0 0.2025 ± 0.1465
pull
Entries 45
Mean 35.61
Std Dev 13.45
pull1D
Entries 45
Mean 0.08583
Std Dev 1.067

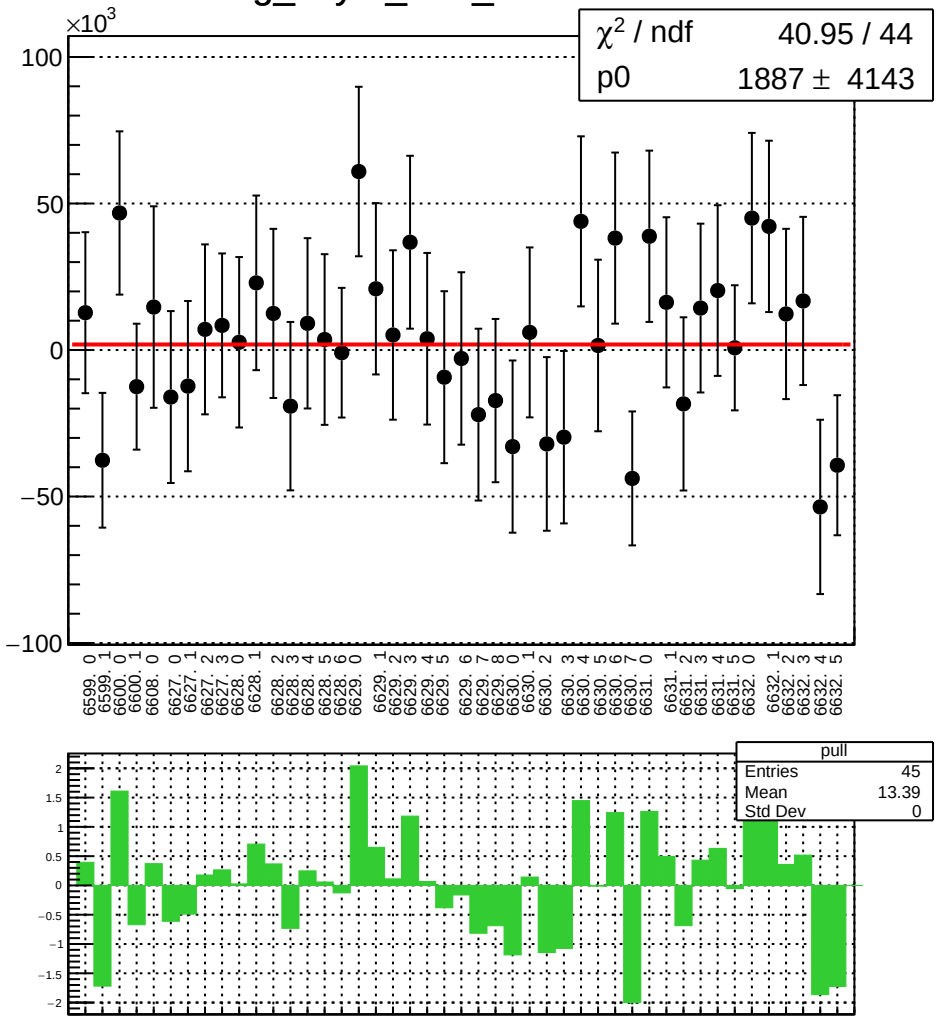

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.312e+05 / 44
p0 89.8 ± 0.1036
400
350
300
250
200
150
100
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

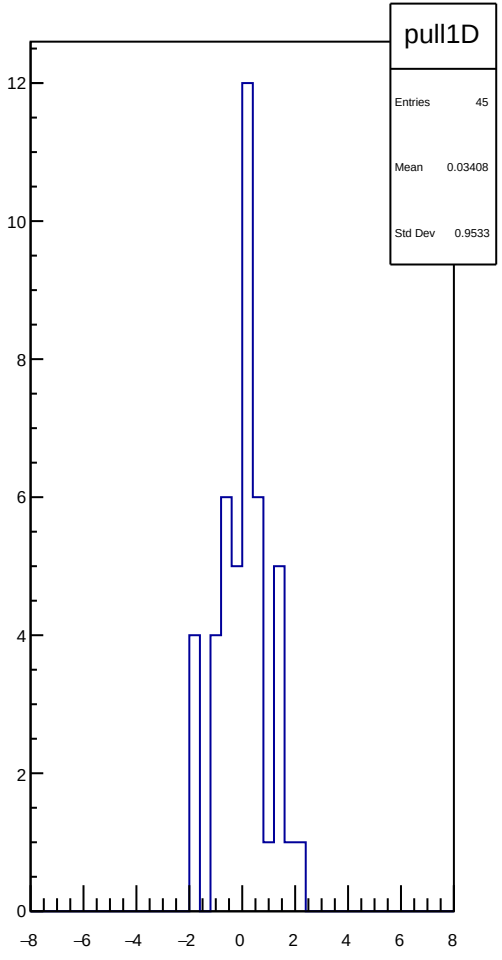

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.59 / 44
p0 0.2025 ± 0.1465
pull
Entries 45
Mean 35.61
Std Dev 13.45
pull1D
Entries 45
Mean 0.08583
Std Dev 1.067

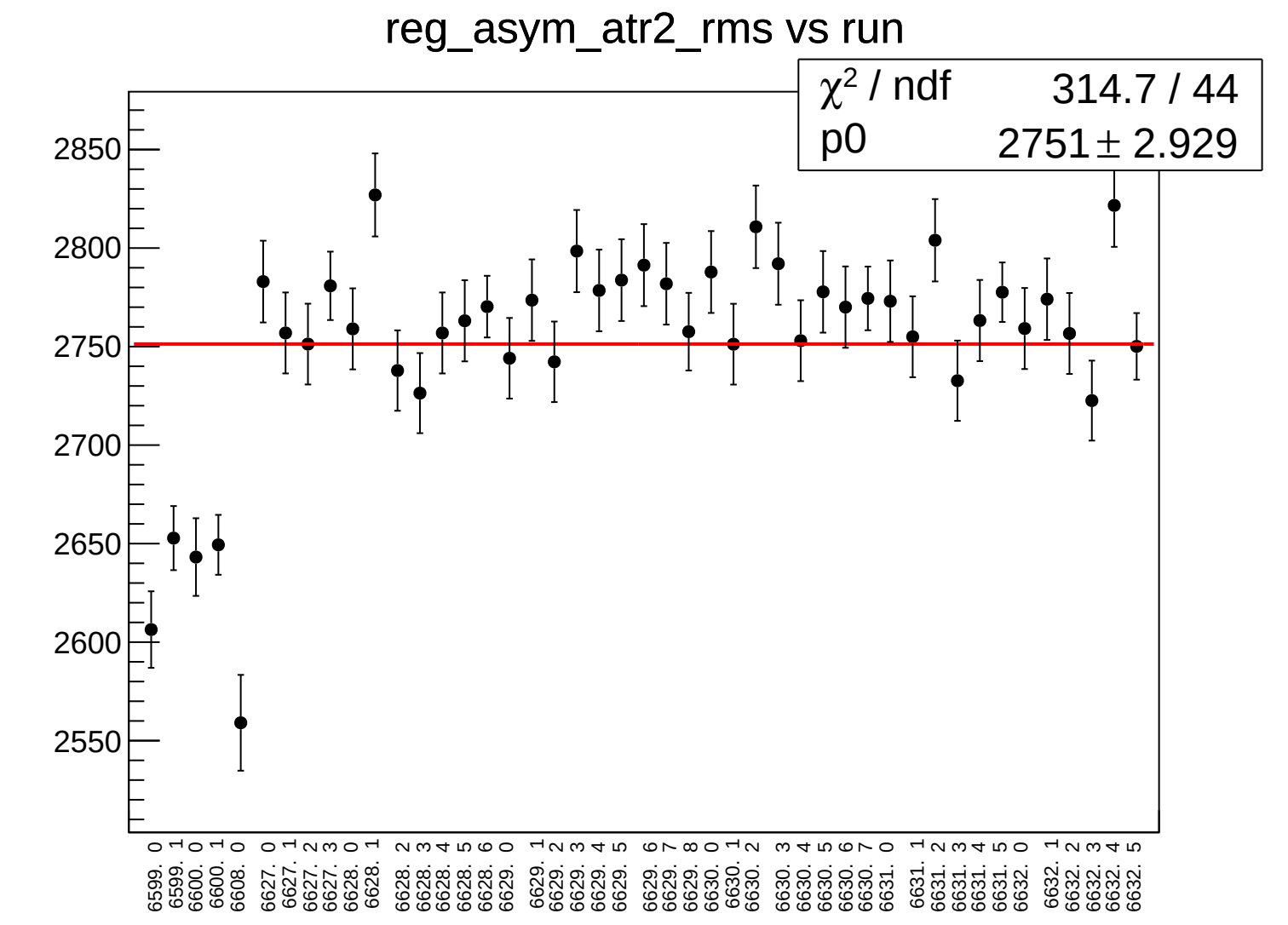

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.312e+05 / 44
p0 89.8 ± 0.1036
400
350
300
250
200
150
100
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

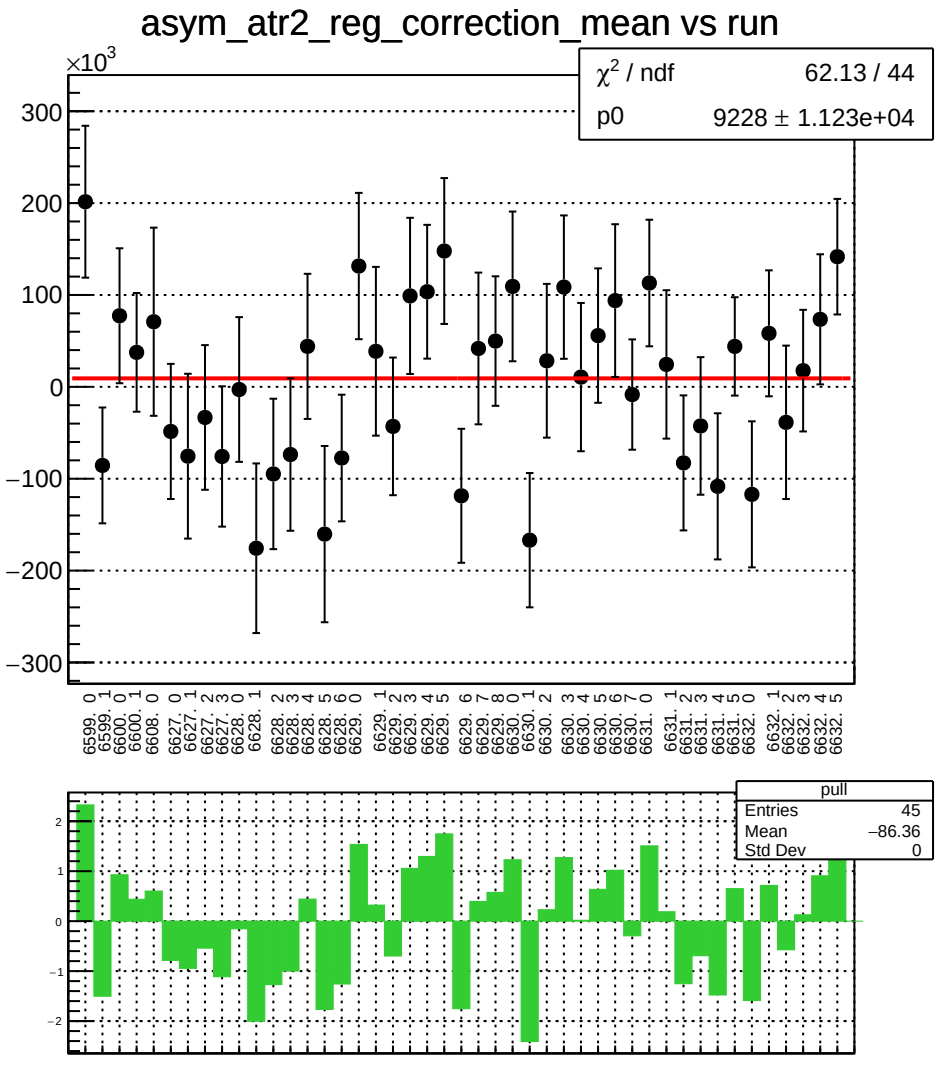

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 46.72 / 44
p0 1.675e−15 ± 2.719e−14
1
0.5
0
−0.5
−1
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −52.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01863
Std Dev 1.019
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.769e+05 / 44
p0 1.496e−11 ± 1.922e−14
80
70
60
50
40
30
20
10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


reg_asym_atr2_mean vs run
×10^3
χ² / ndf 40.95 / 44
p0 1887 ± 4143
100
50
0
−50
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 13.39
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.03408
Std Dev 0.9533
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr2_rms vs run
χ² / ndf 314.7 / 44
p0 2751 ± 2.929
2850
2800
2750
2700
2650
2600
2550
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 62.13 / 44
p0 9228 ± 1.123e+04
300
200
100
0
−100
−200
−300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −86.36
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01798
Std Dev 1.175
7
6
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−4
−2
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6
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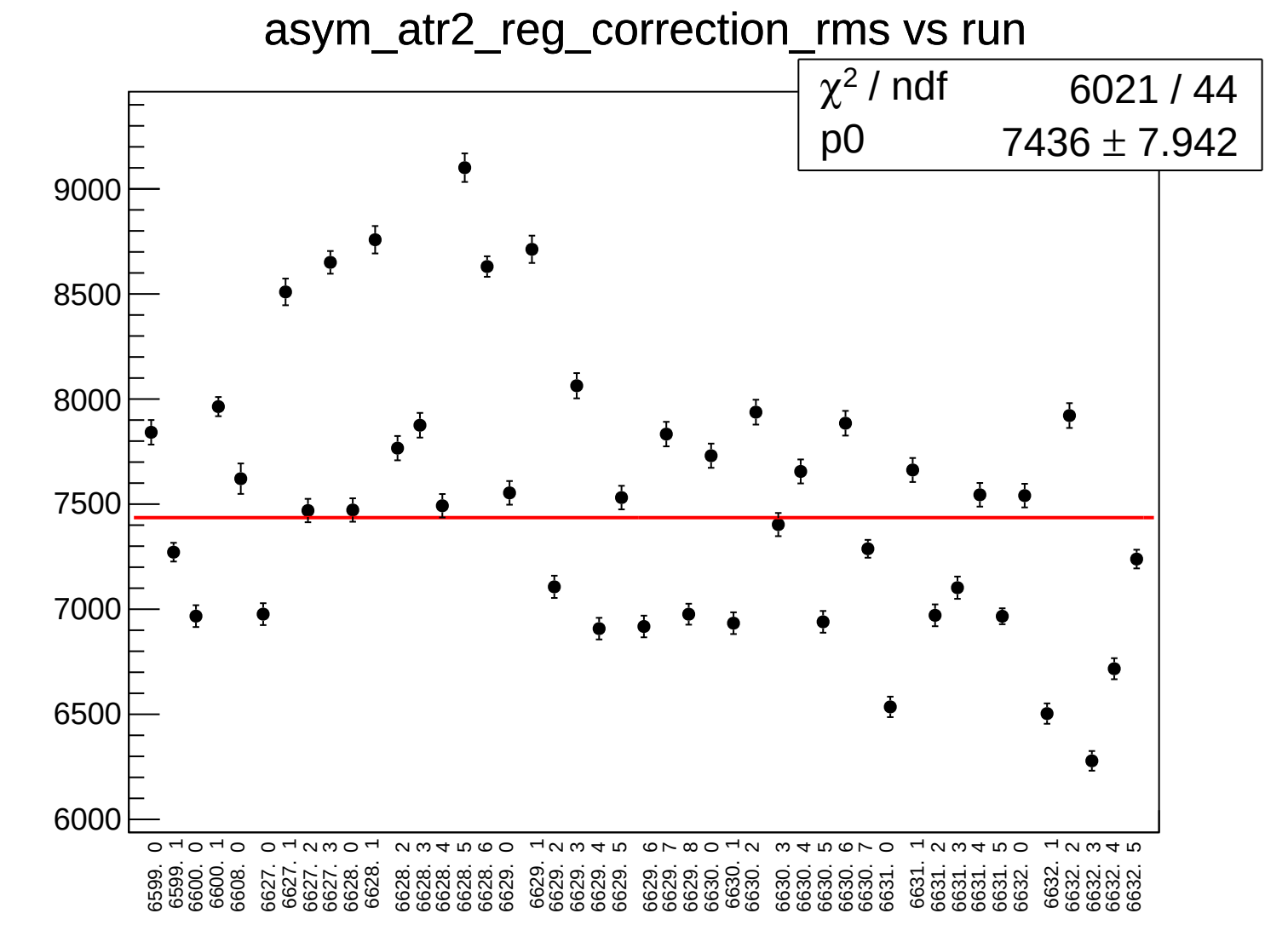
asym_atr2_reg_correction_rms vs run
χ² / ndf 6021 / 44
p0 7436 ± 7.942
9000
8500
8000
7500
7000
6500
6000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
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6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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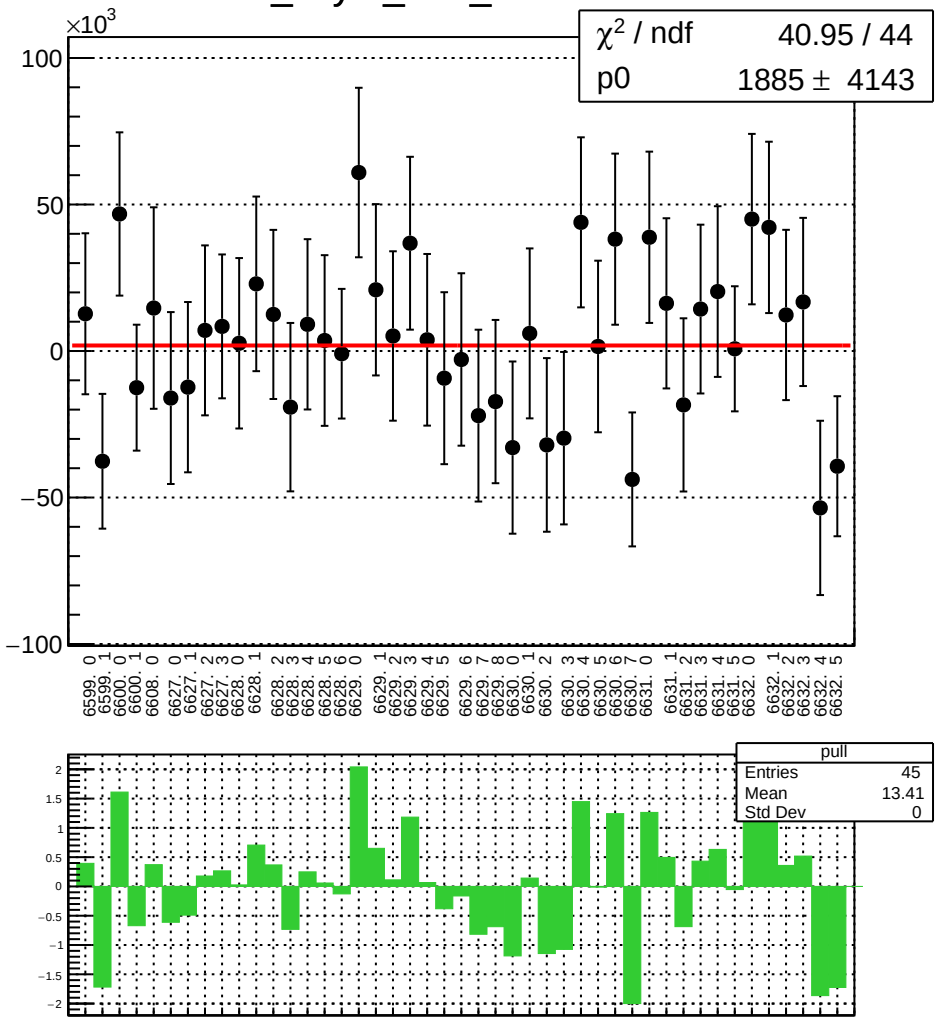
cor_asym_atr2_mean vs run
×10^3
χ² / ndf 40.95 / 44
p0 1885 ± 4143
100
50
0
−50
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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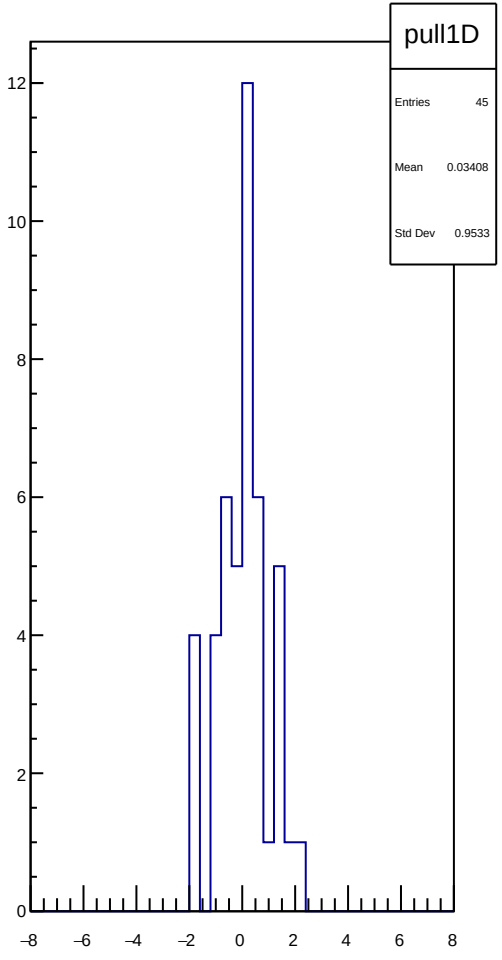
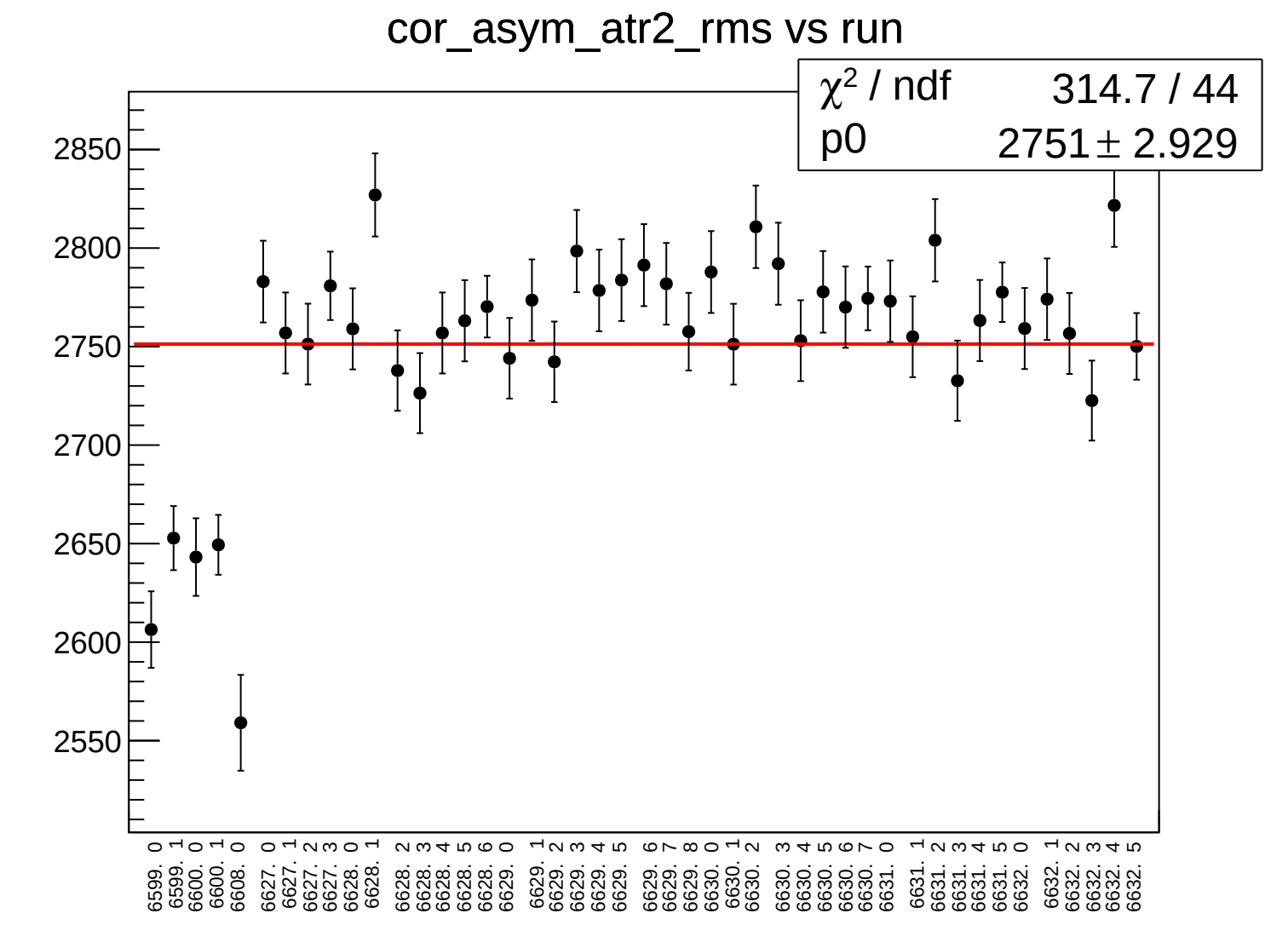
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 13.41
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.03408
Std Dev 0.9533
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atr2_rms vs run
χ² / ndf 314.7 / 44
p0 2751 ± 2.929
2850
2800
2750
2700
2650
2600
2550
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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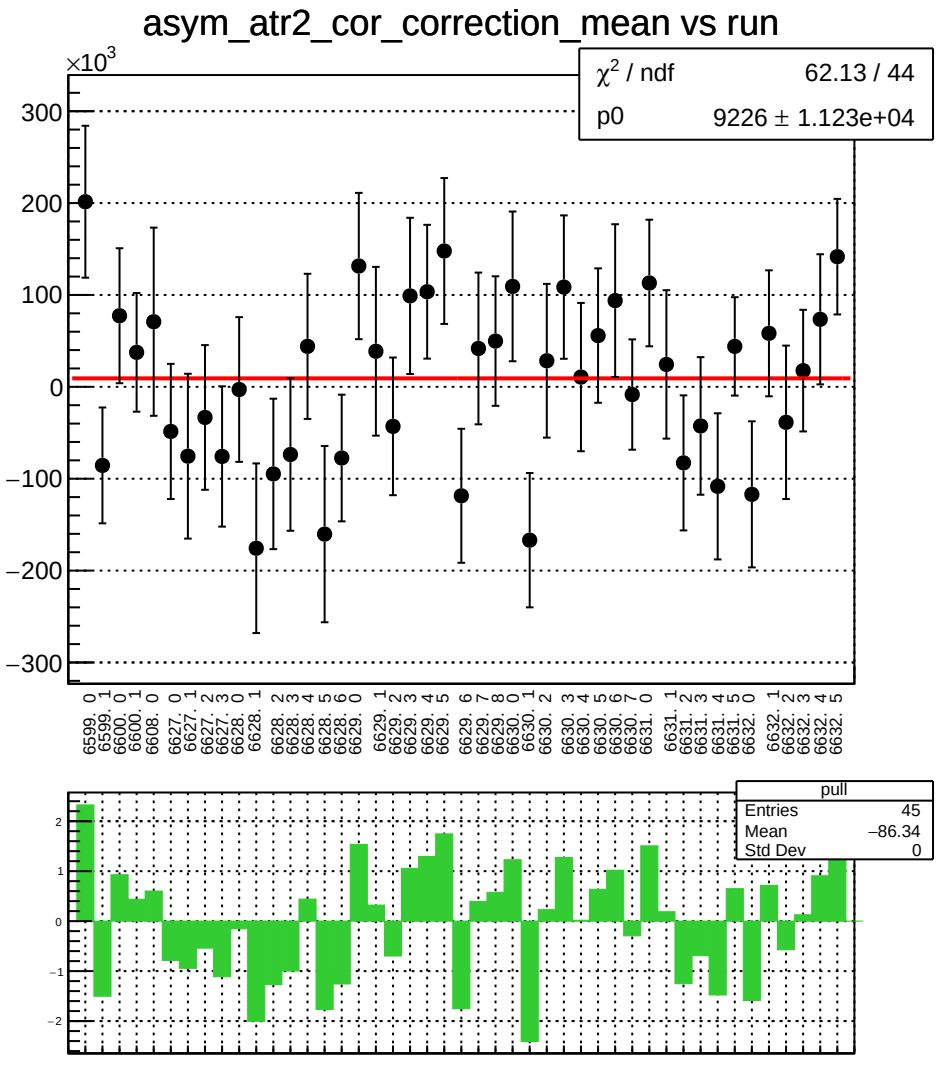
6632. 2
6632. 3
6632. 4
6632. 5


asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 62.13 / 44
p0 9226 ± 1.123e+04
300
200
100
0
−100
−200
−300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6628. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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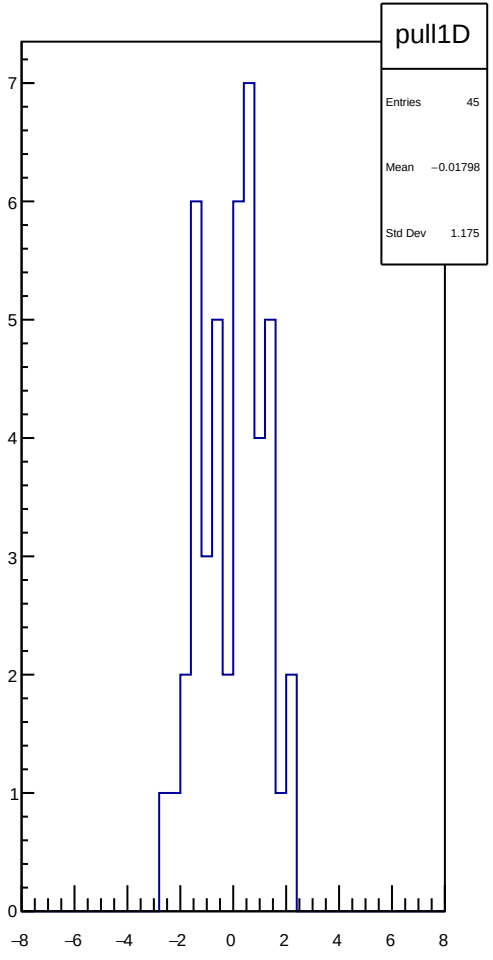
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −86.34
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.01798
Std Dev 1.175
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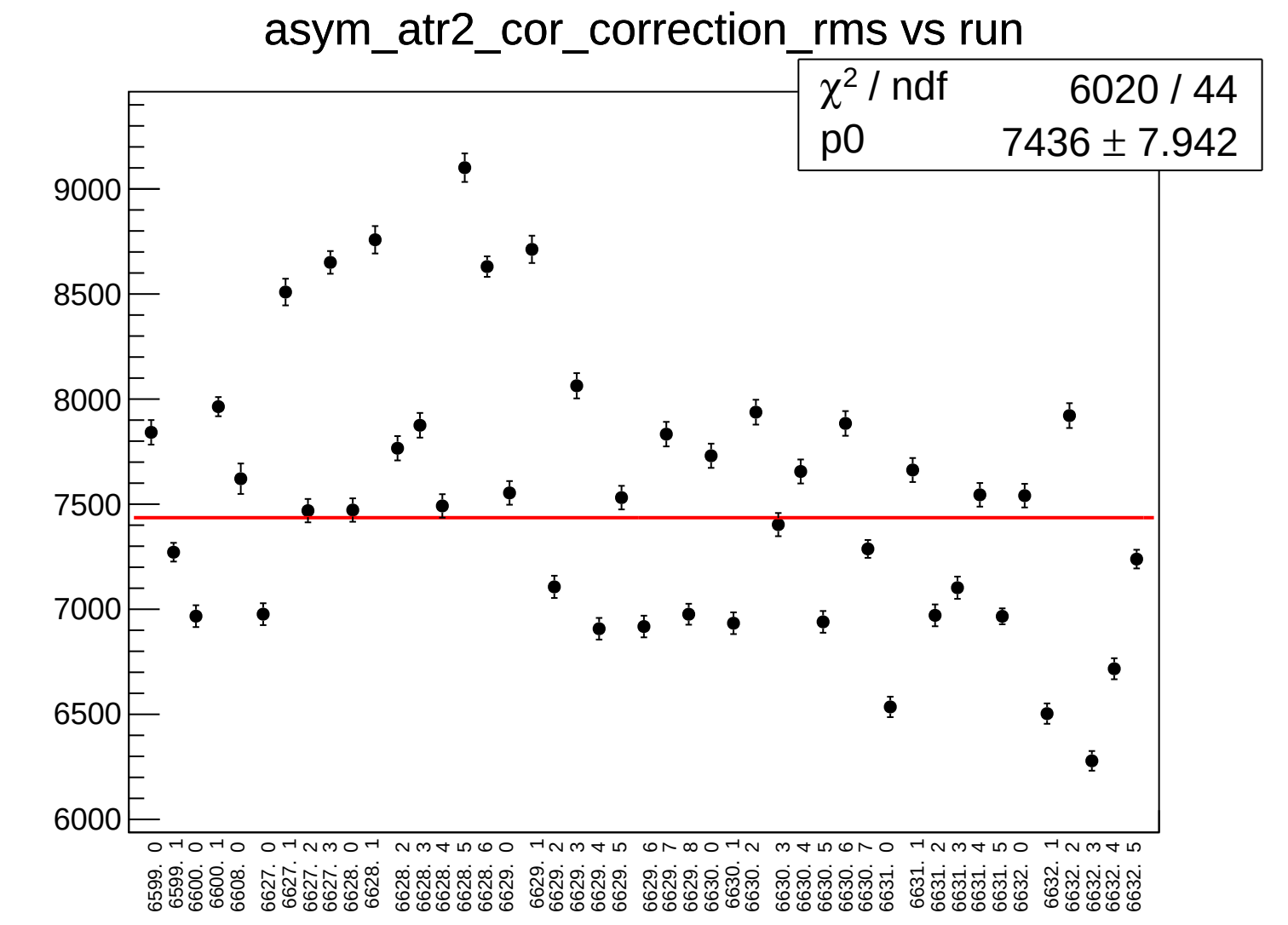
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr2_cor_correction_rms vs run
χ² / ndf 6020 / 44
p0 7436 ± 7.942
9000
8500
8000
7500
7000
6500
6000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
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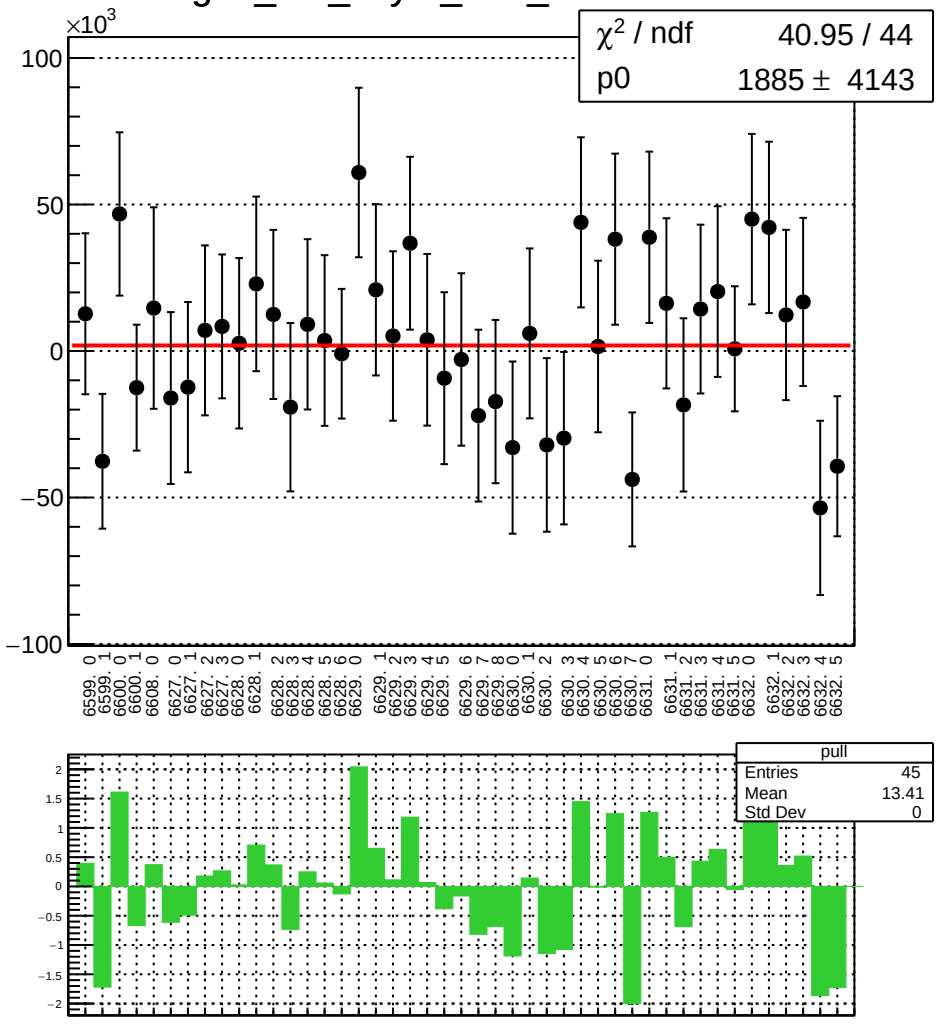
eigen_cor_asym_atr2_mean vs run
×10^3
χ² / ndf 40.95 / 44
p0 1885 ± 4143
100
50
0
−50
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6629. 0
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
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6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
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6632. 3
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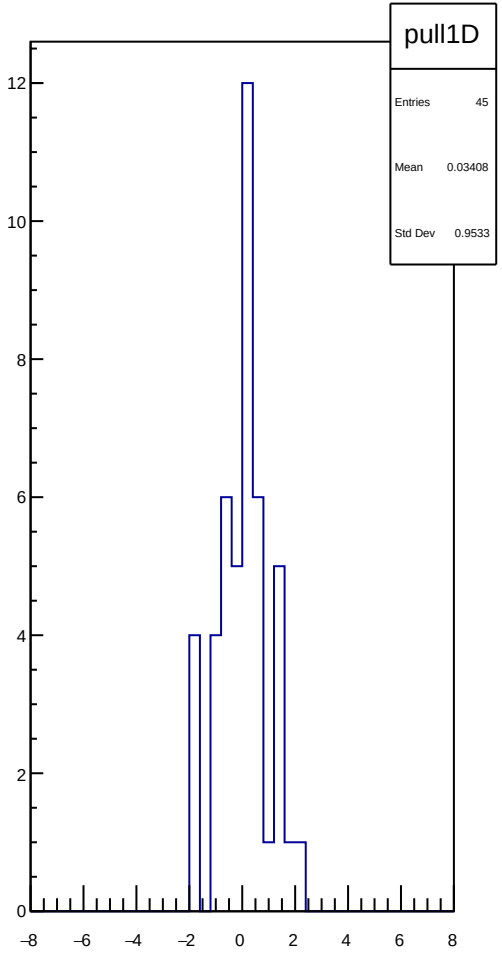
pull
Entries 45
Mean 13.41
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.03408
Std Dev 0.9533
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10
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6
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−8
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−4
−2
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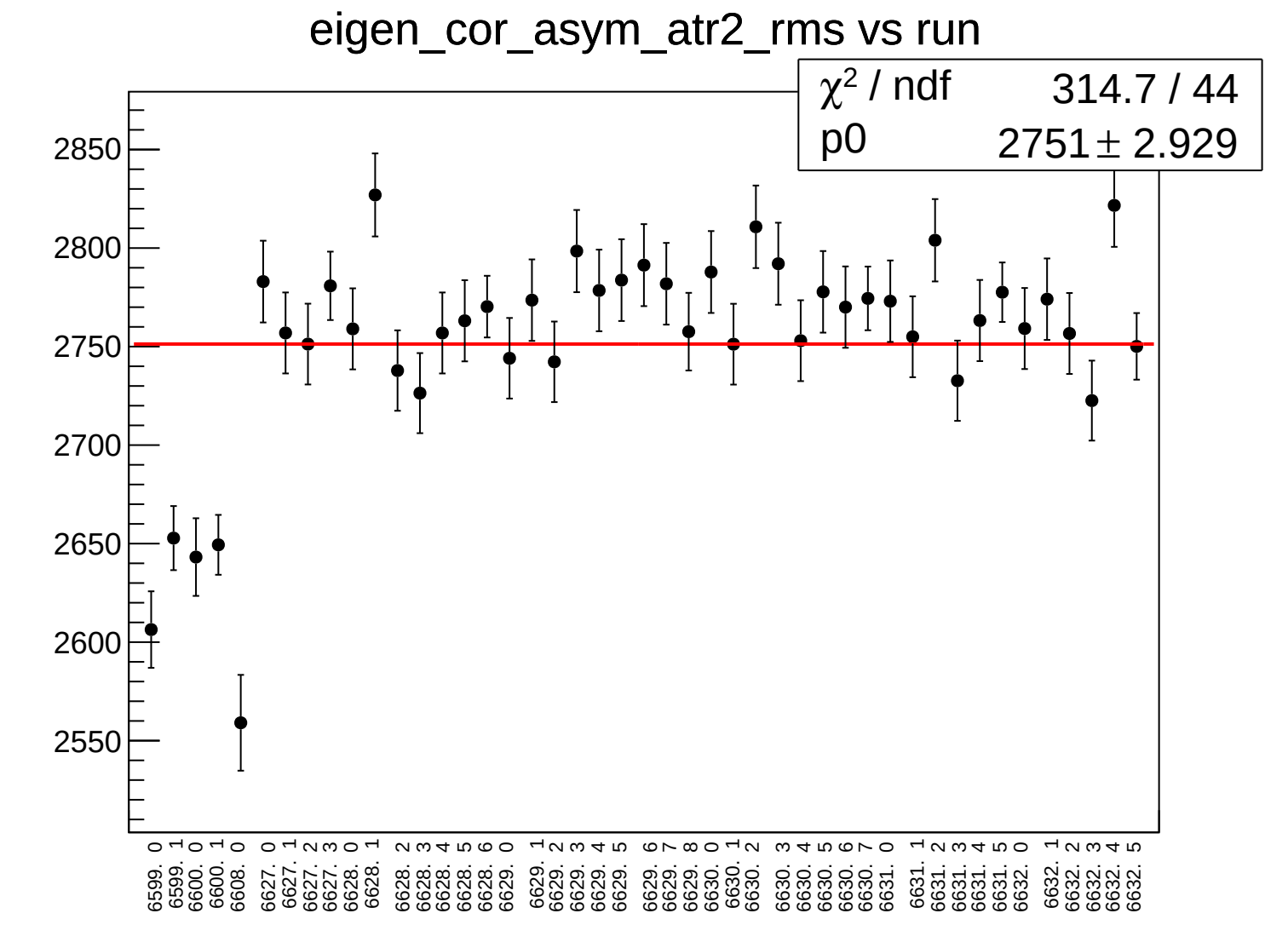
eigen_cor_asym_atr2_rms vs run
χ² / ndf 314.7 / 44
p0 2751 ± 2.929
2850
2800
2750
2700
2650
2600
2550
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 6
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6631. 0
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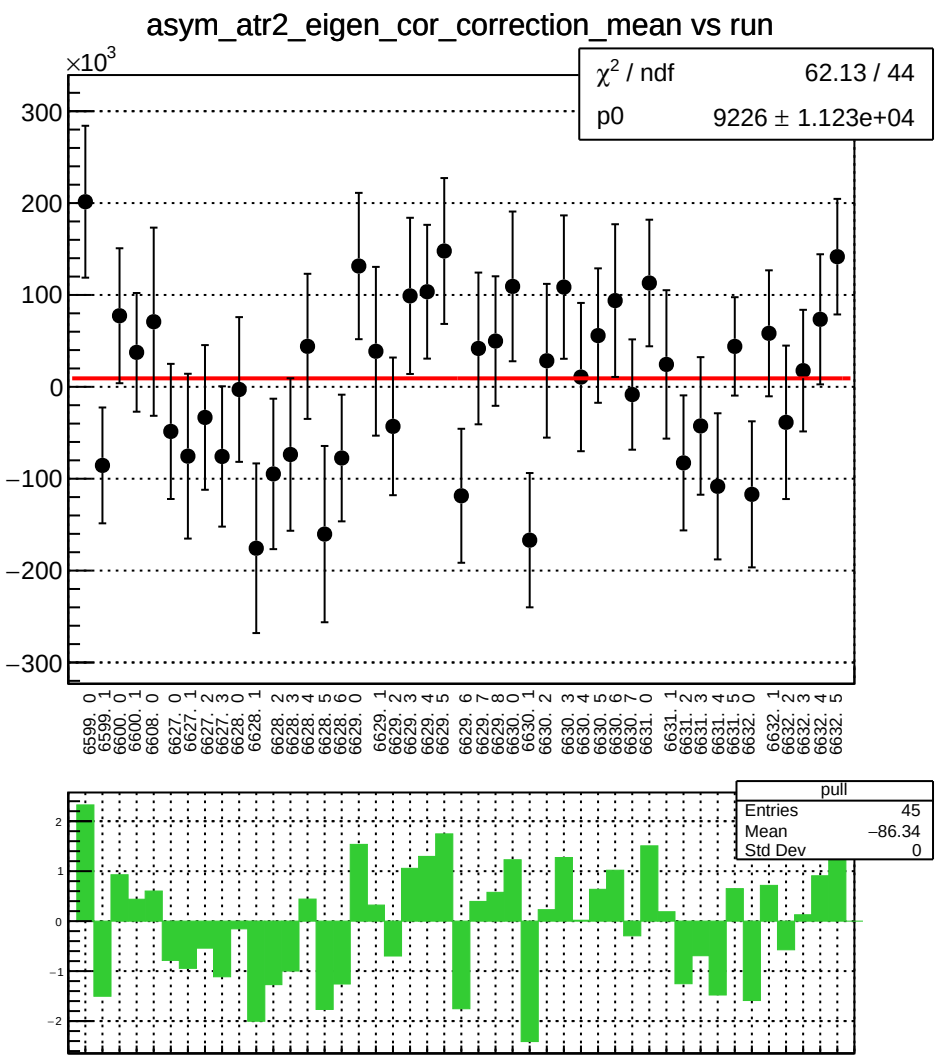
asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 62.13 / 44
p0 9226 ± 1.123e+04
300
200
100
0
−100
−200
−300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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6628. 2
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6631. 2
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6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −86.34
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01798
Std Dev 1.175
7
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5
4
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2
1
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−8
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−4
−2
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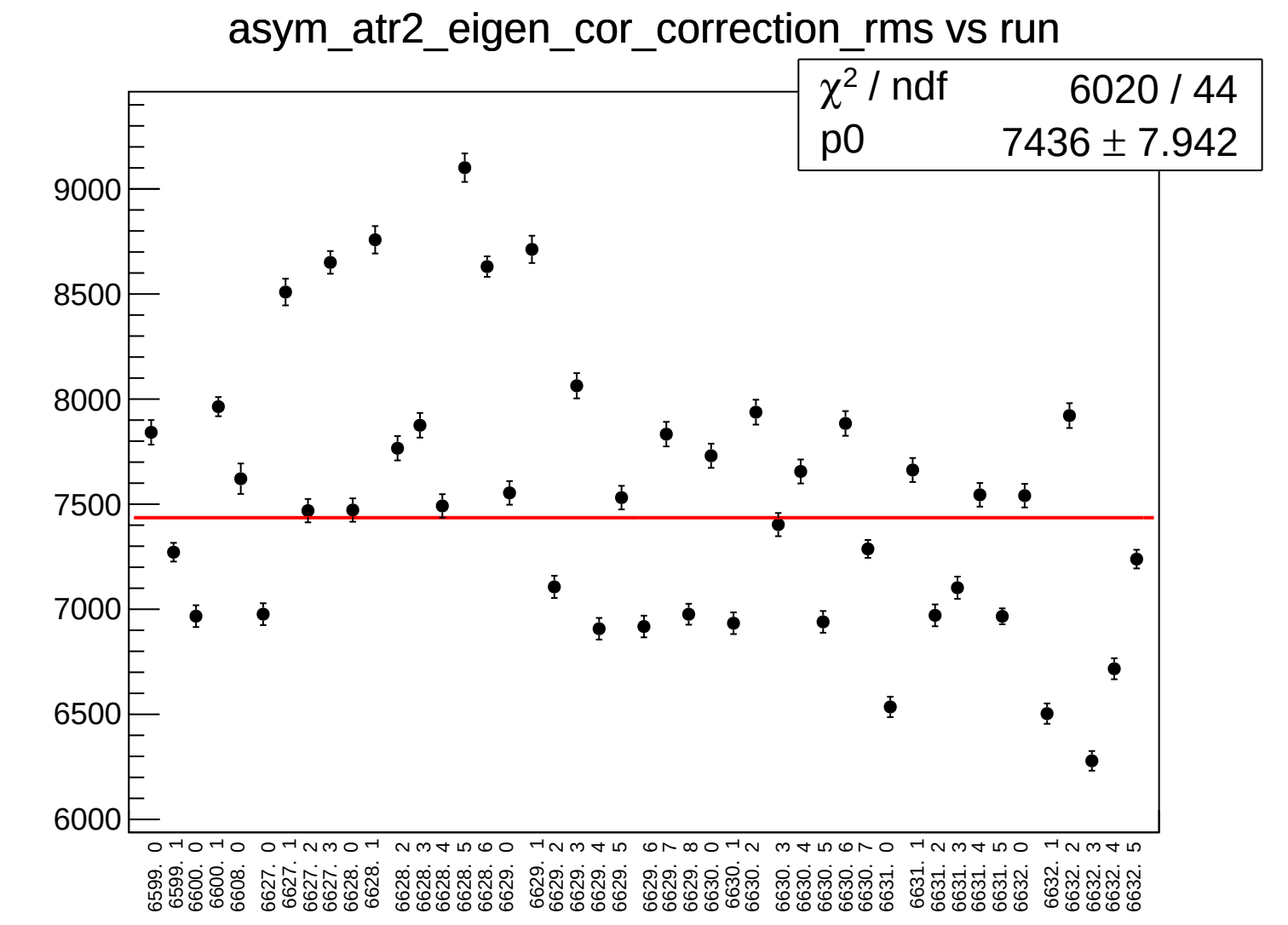
2
4
6
8


asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 6020 / 44
p0 7436 ± 7.942
9000
8500
8000
7500
7000
6500
6000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
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6628. 6
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6629. 8
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6630. 2
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6630. 6
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6631. 1
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6632. 2
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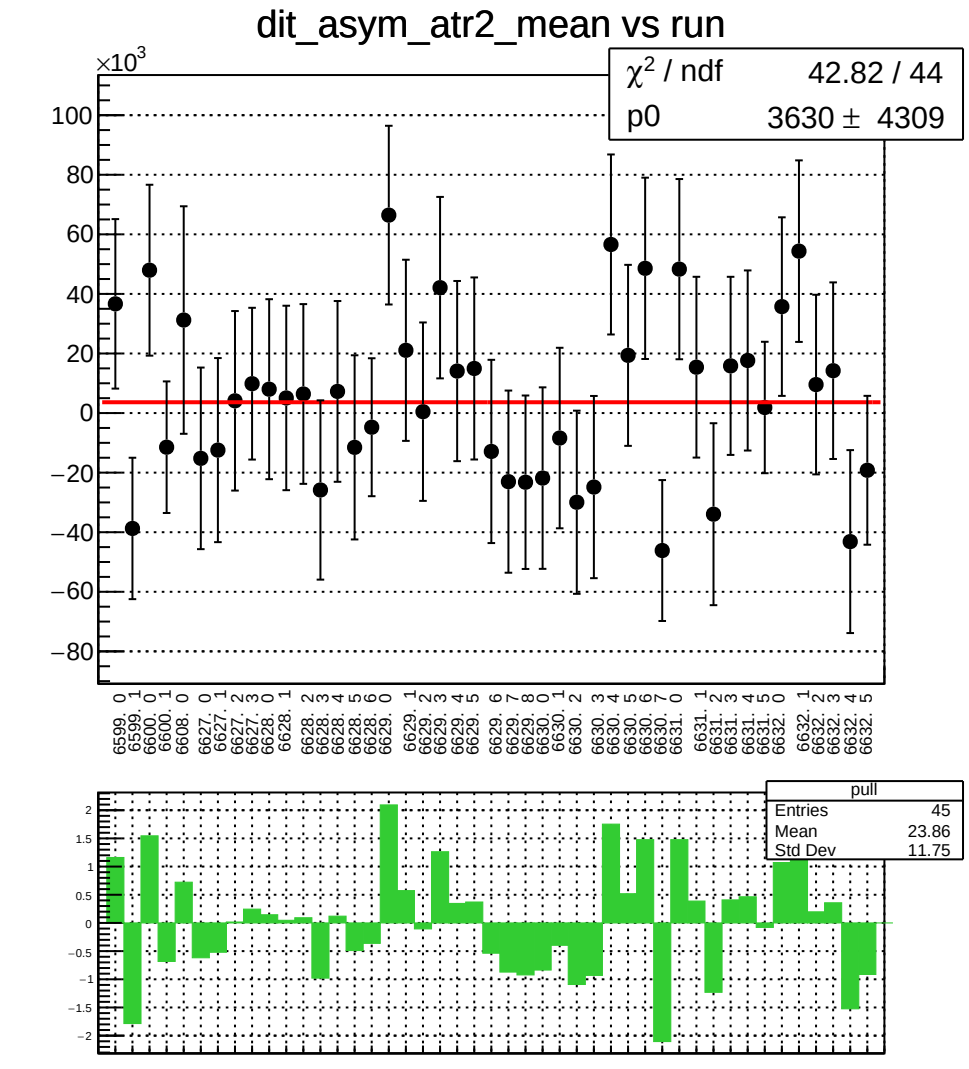
6632. 5


dit_asym_atr2_mean vs run
×10^3
χ² / ndf 42.82 / 44
p0 3630 ± 4309
100
80
60
40
20
0
−20
−40
−60
−80
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
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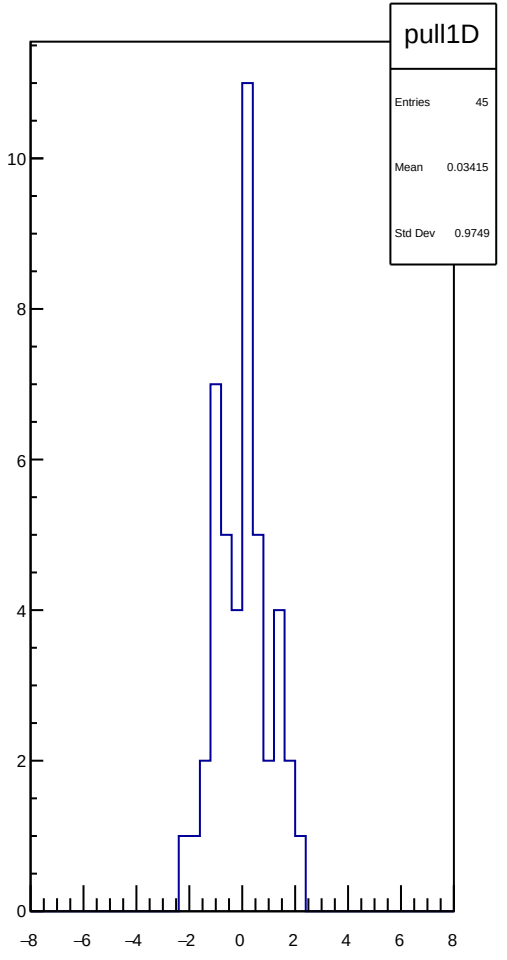
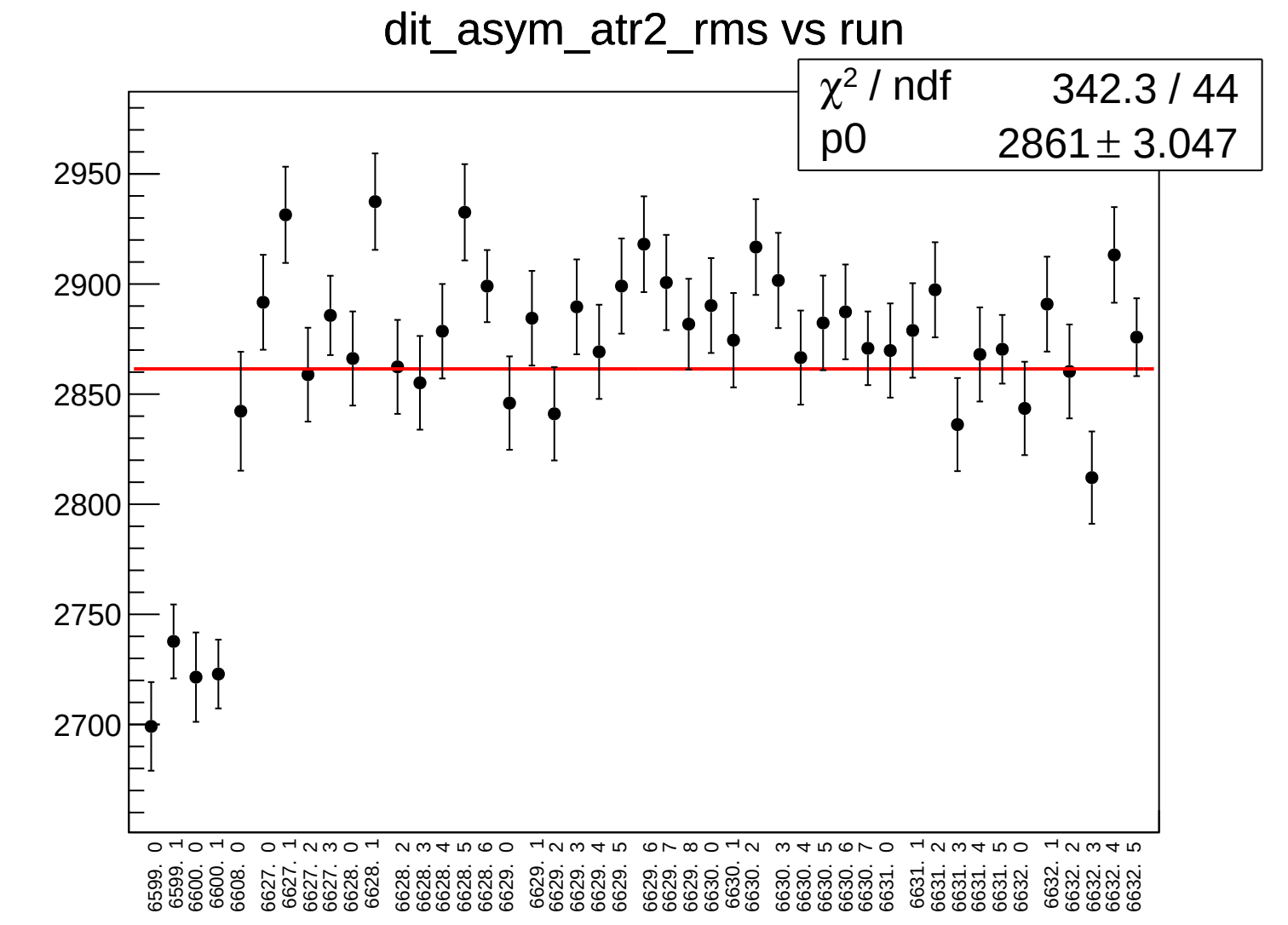
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 23.86
Std Dev 11.75
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.03415
Std Dev 0.9749
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atr2_rms vs run
χ² / ndf 342.3 / 44
p0 2861 ± 3.047
2950
2900
2850
2800
2750
2700
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
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6630. 7
6631. 0
6631. 1
6631. 2
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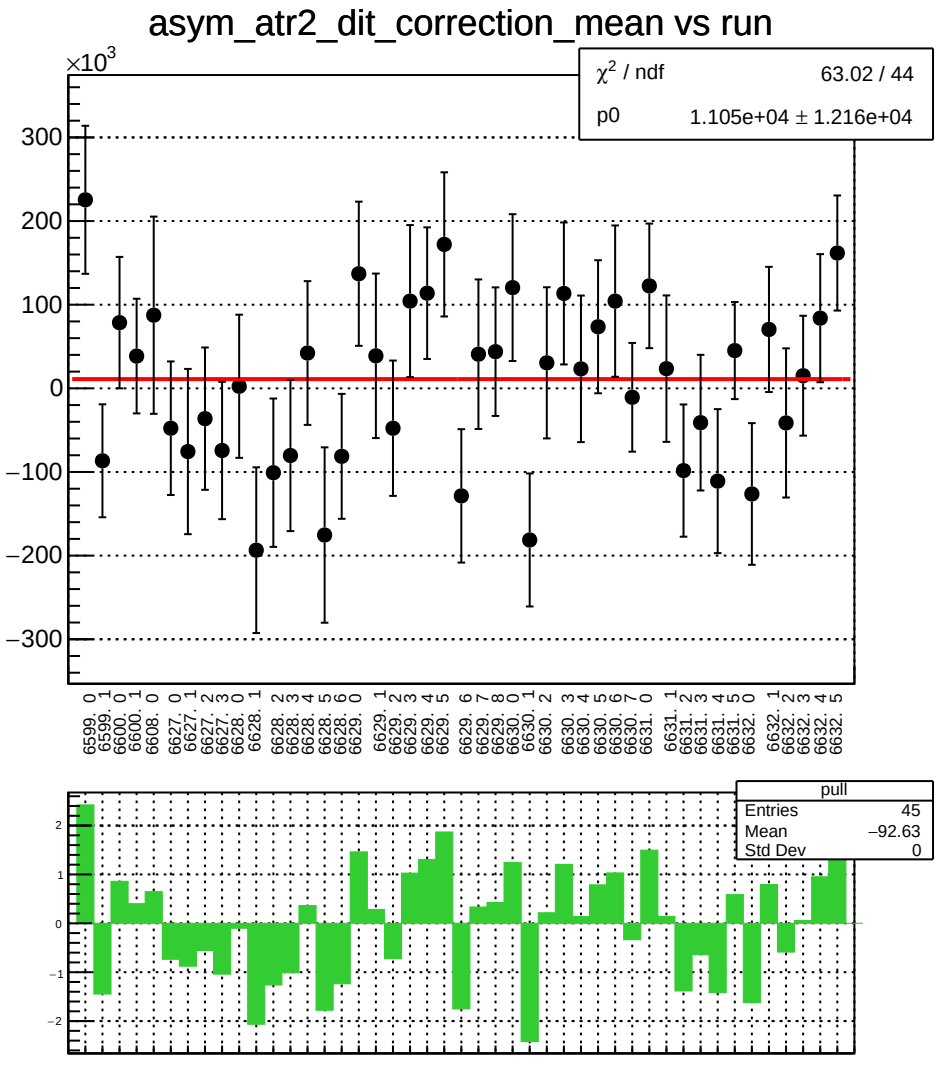
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 63.02 / 44
p0 1.105e+04 ± 1.216e+04
300
200
100
0
−100
−200
−300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
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6629. 4
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6629. 8
6630. 0
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6630. 2
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6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
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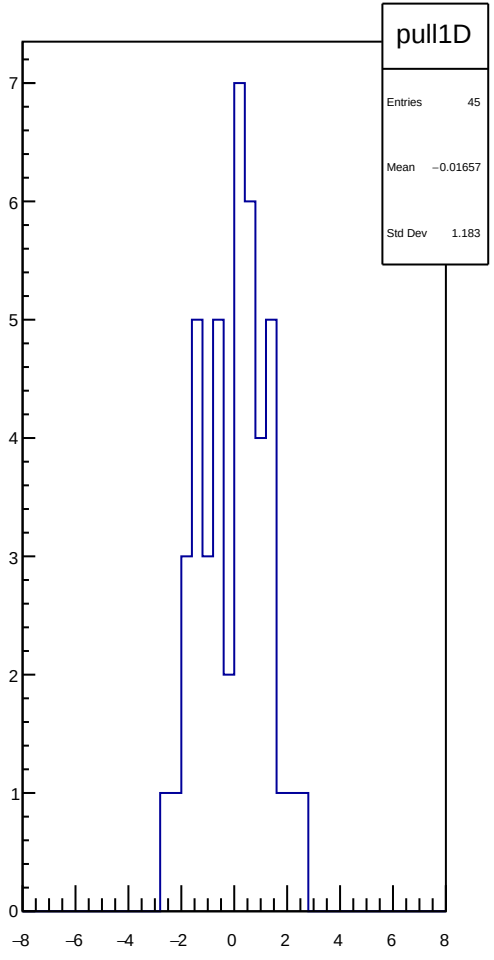
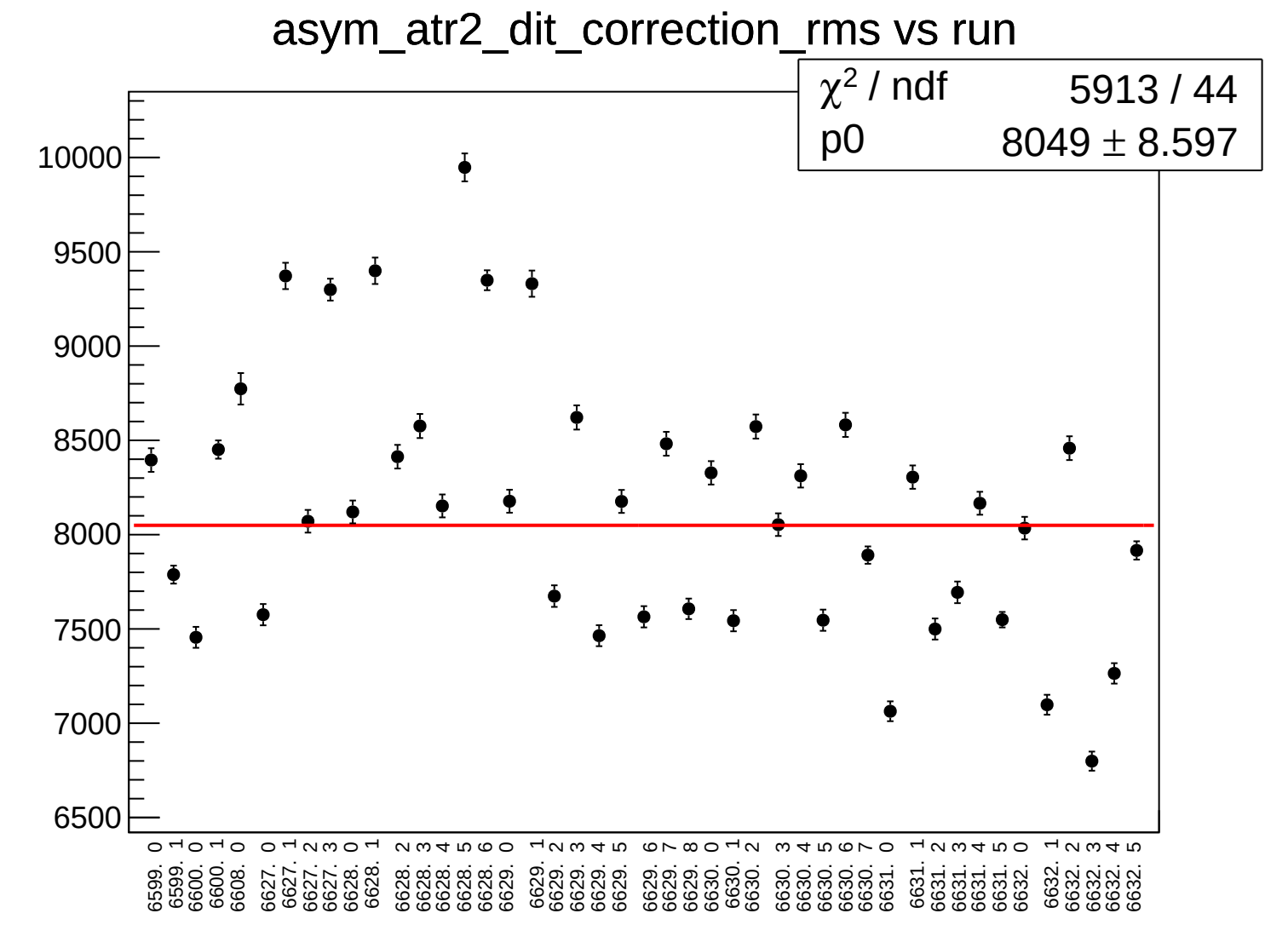
6632. 4
6632. 5
pull
Entries 45
Mean −92.63
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.01657
Std Dev 1.183
7
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 5913 / 44
p0 8049 ± 8.597
10000
9500
9000
8500
8000
7500
7000
6500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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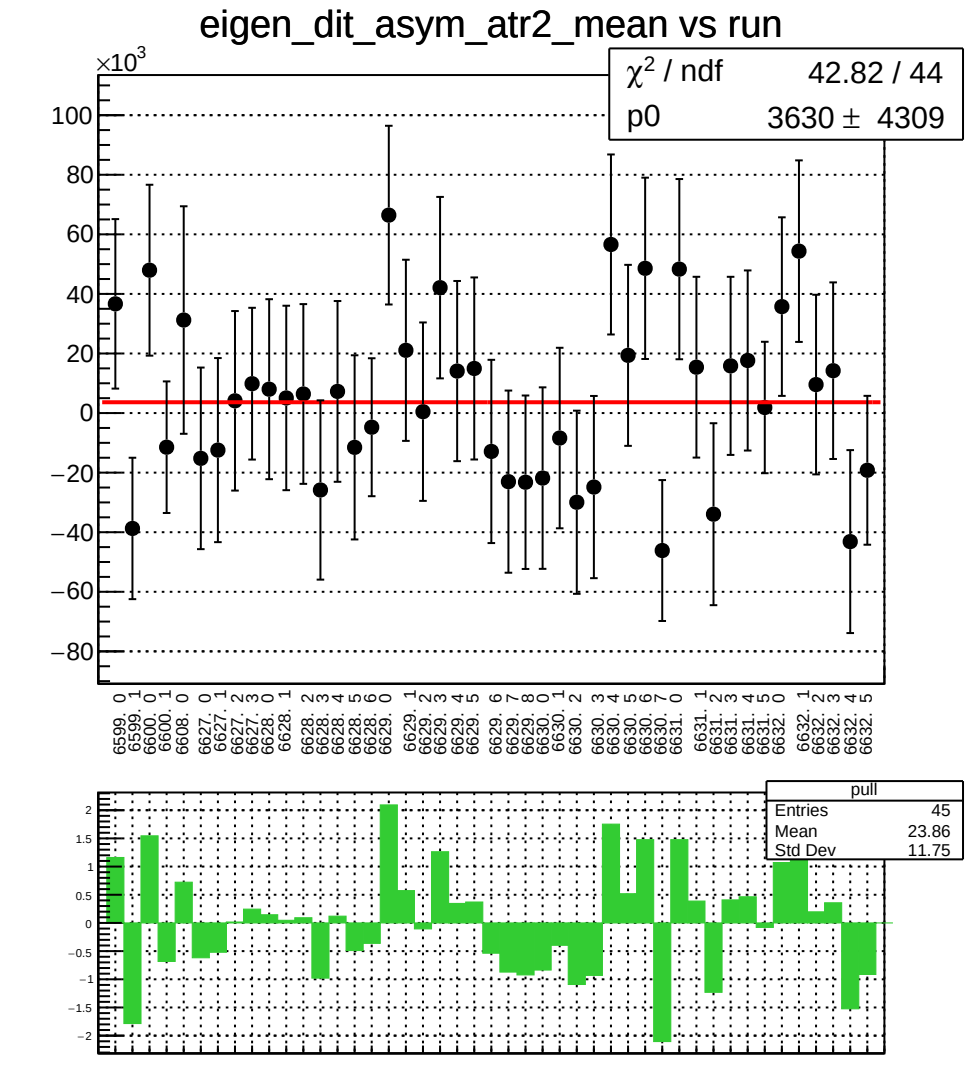
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_atr2_mean vs run
×10^3
χ² / ndf 42.82 / 44
p0 3630 ± 4309
100
80
60
40
20
0
−20
−40
−60
−80
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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6629. 6
6629. 7
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6630. 1
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6630. 5
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6631. 2
6631. 3
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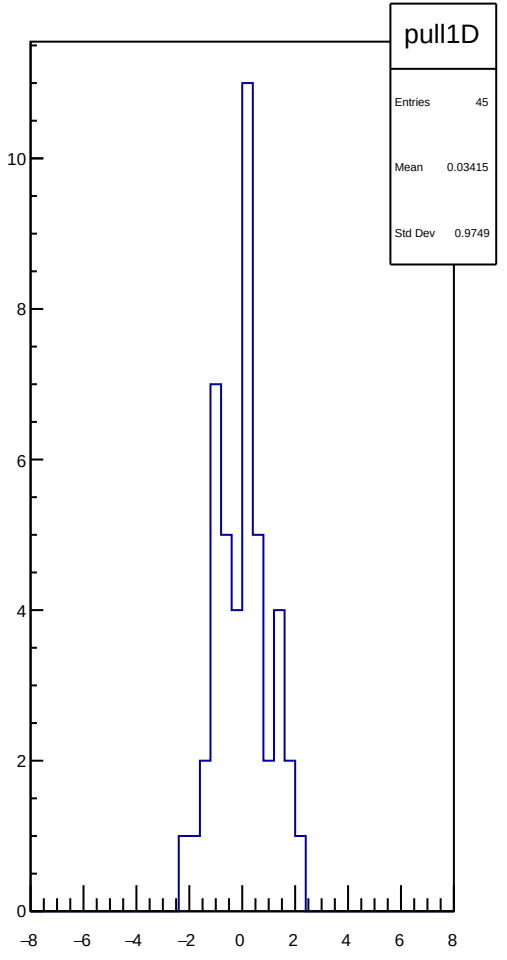
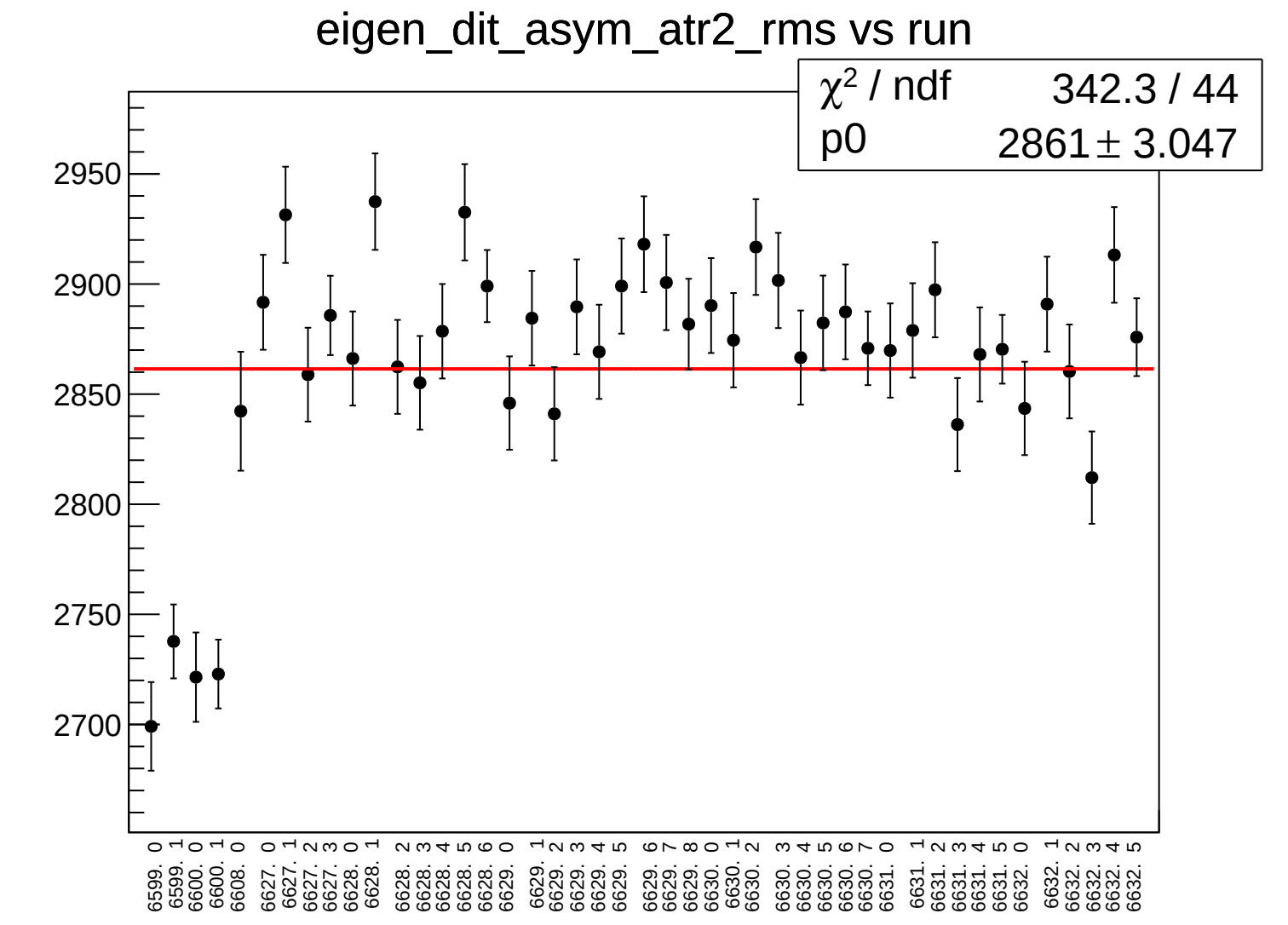
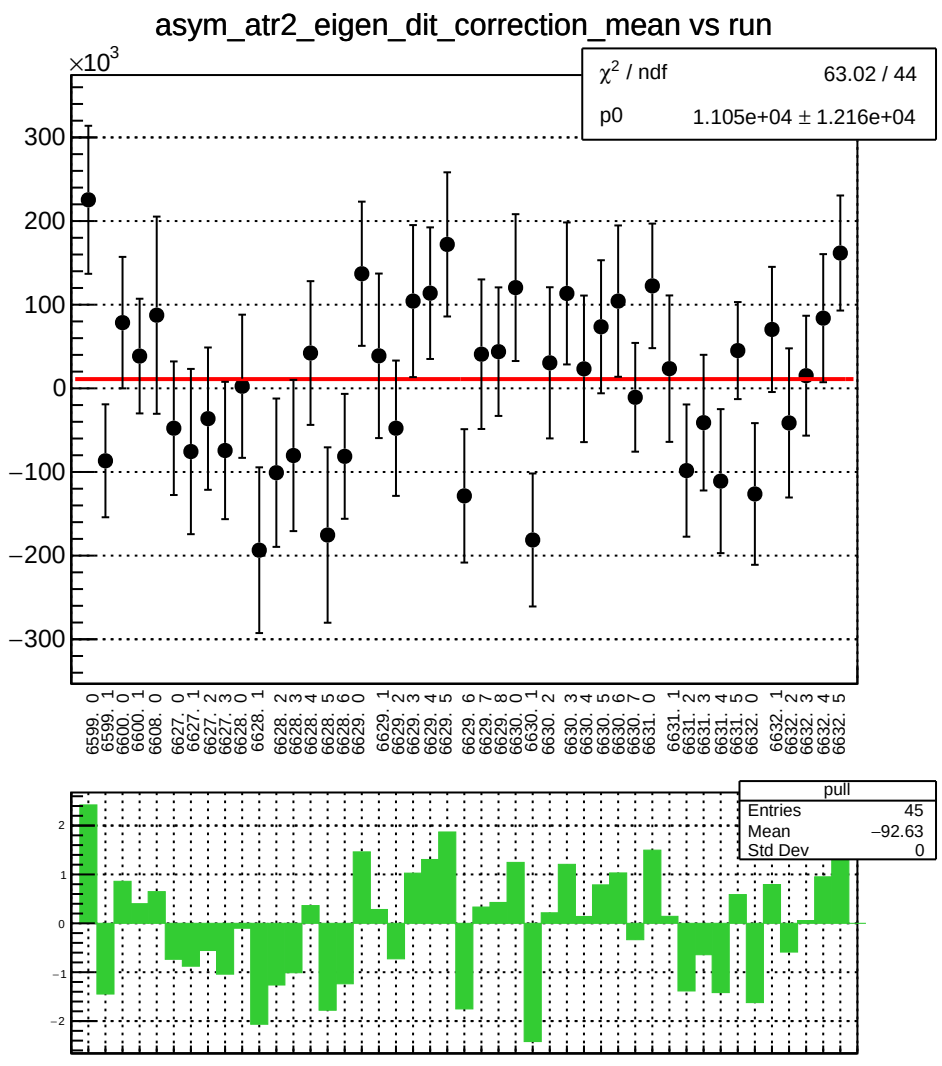
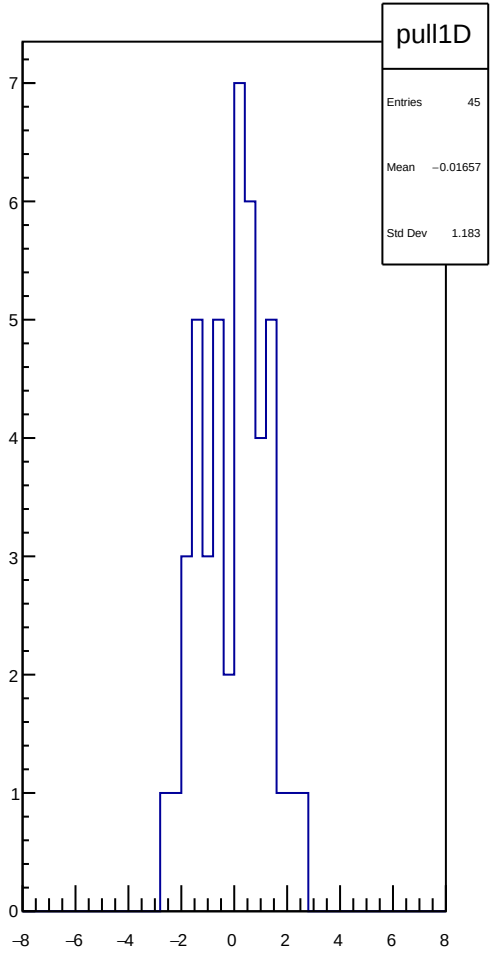
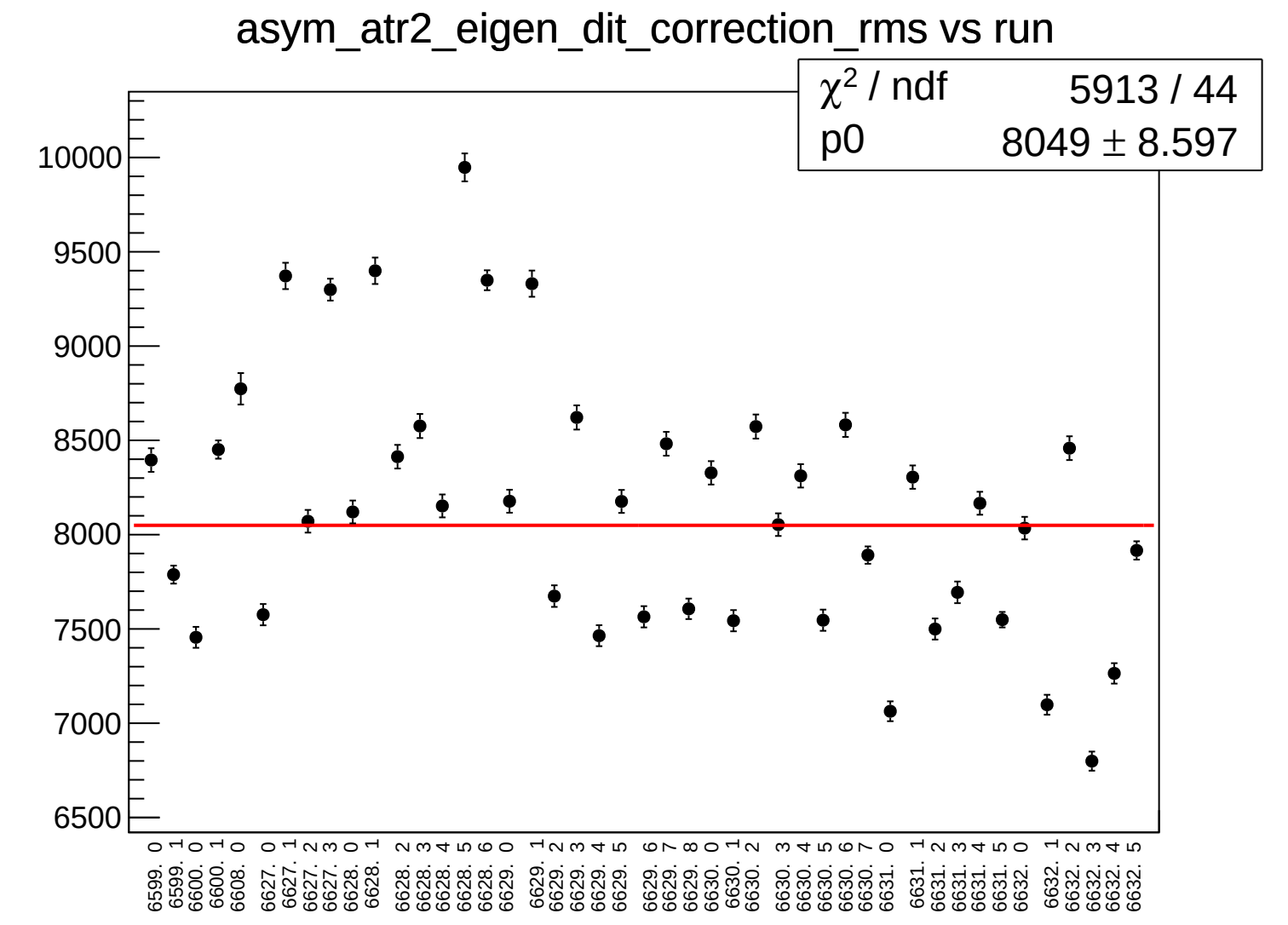
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 23.86
Std Dev 11.75
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

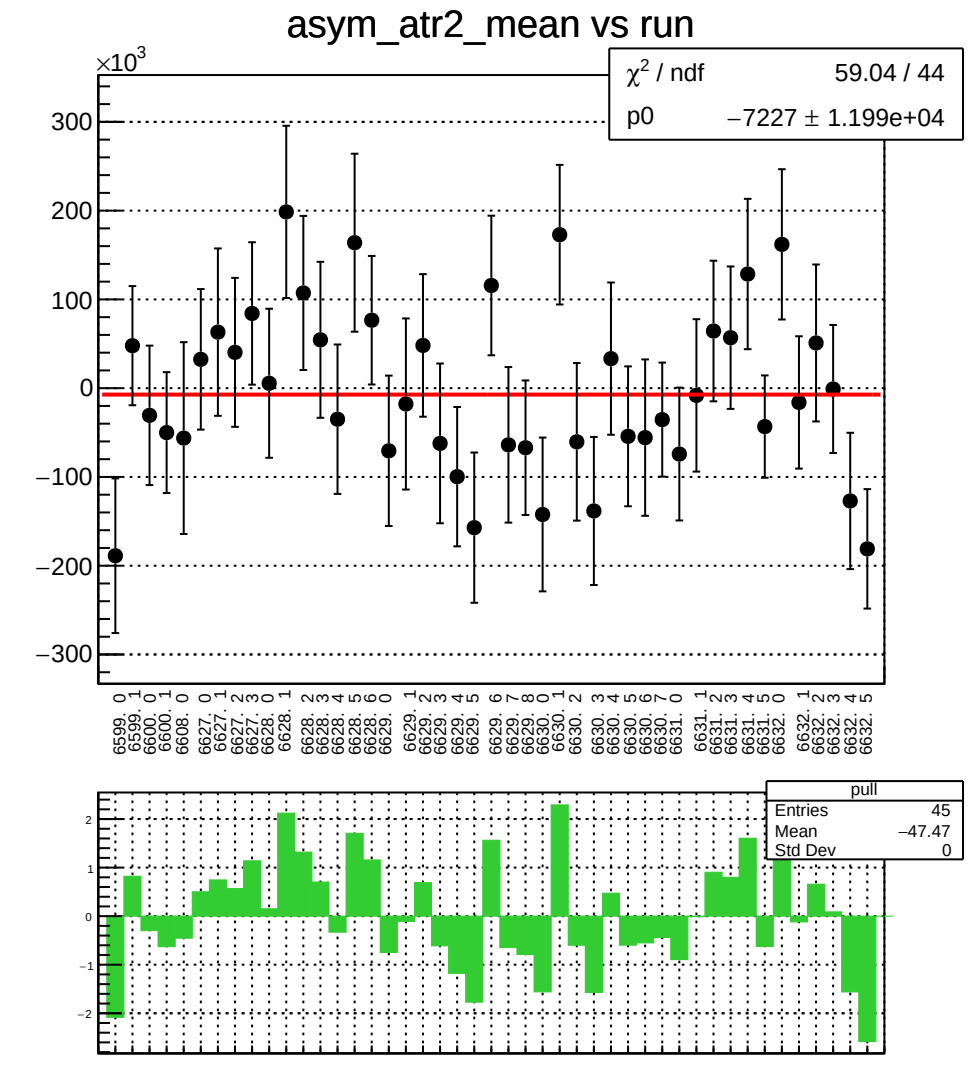

pull1D
Entries 45
Mean 0.03415
Std Dev 0.9749
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

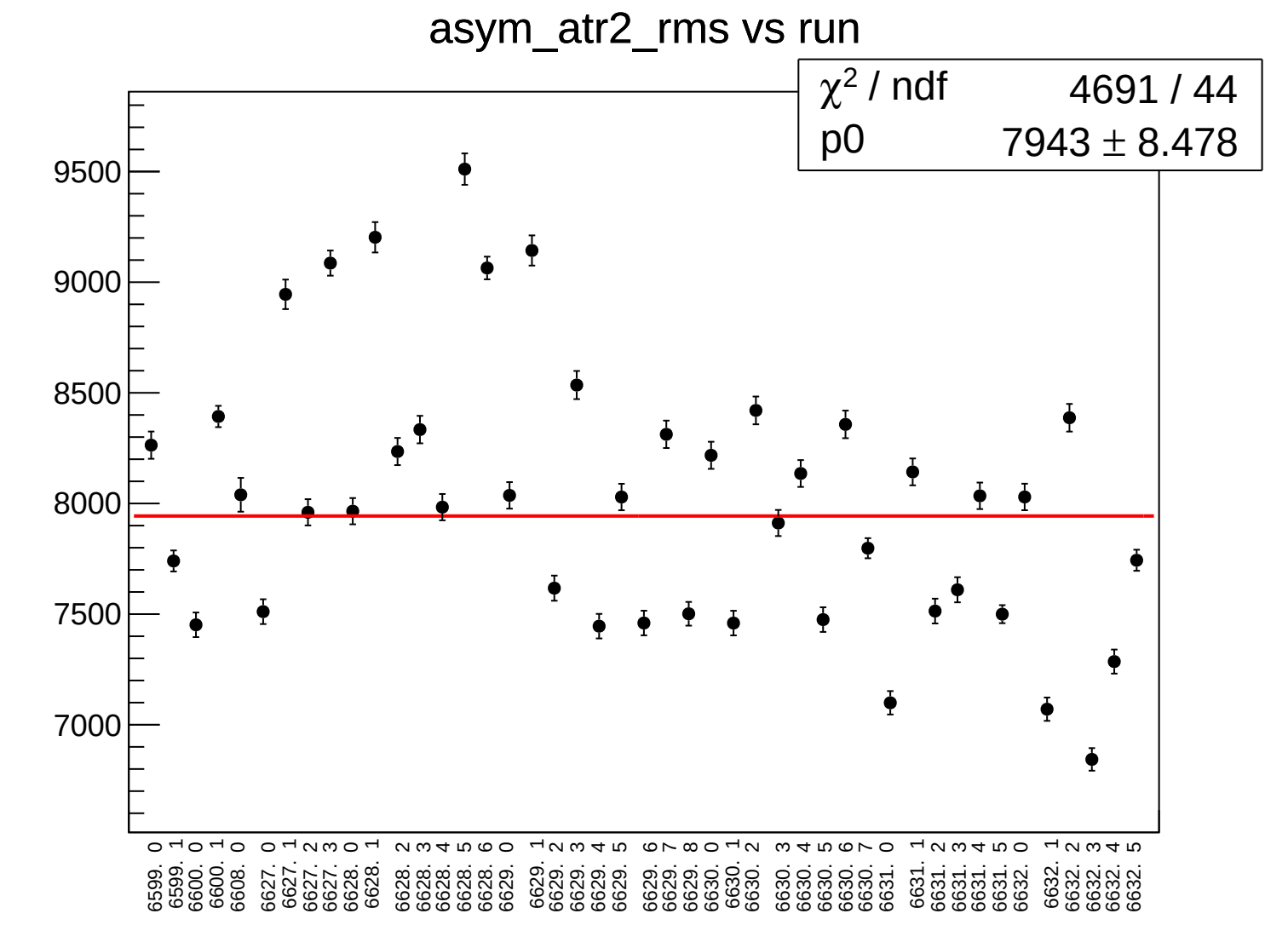

eigen_dit_asym_atr2_rms vs run
χ² / ndf 342.3 / 44
p0 2861 ± 3.047
2950
2900
2850
2800
2750
2700
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

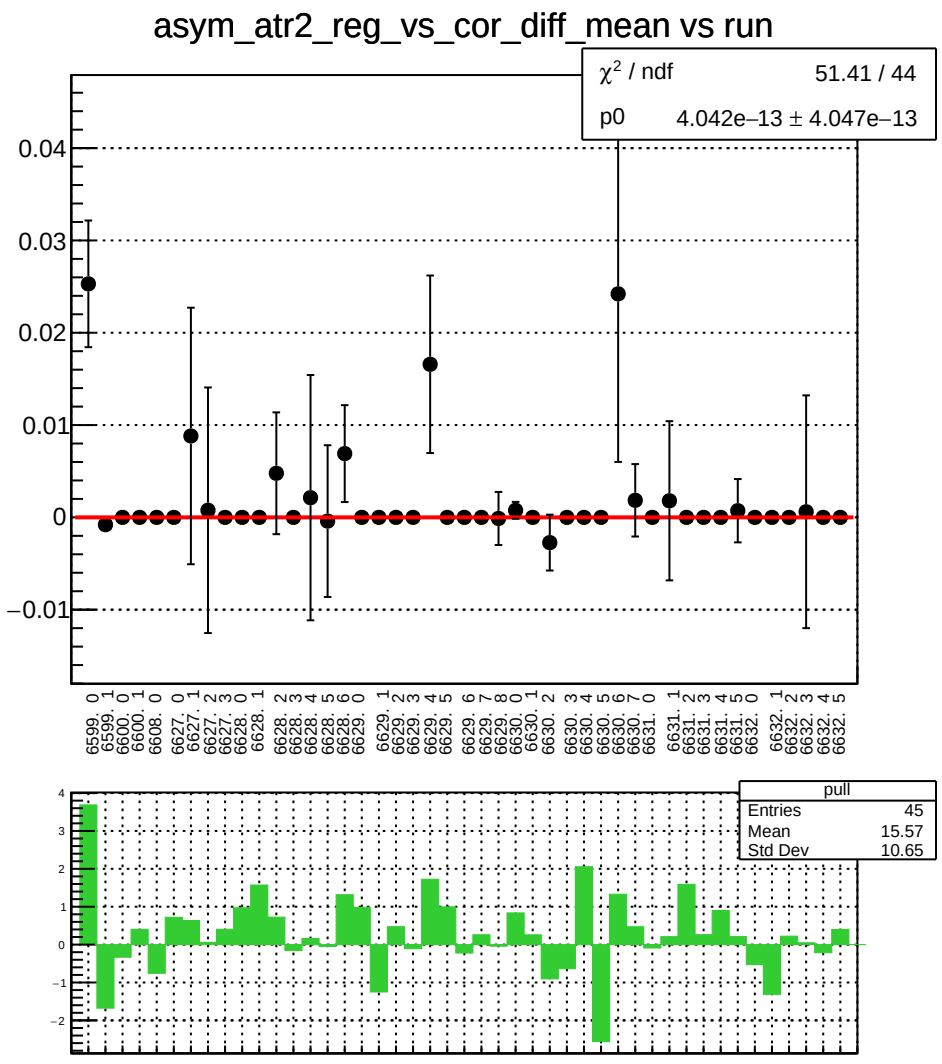

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 63.02 / 44
p0 1.105e+04 ± 1.216e+04
300
200
100
0
−100
−200
−300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −92.63
Std Dev 0
2
1
0
−1
−2

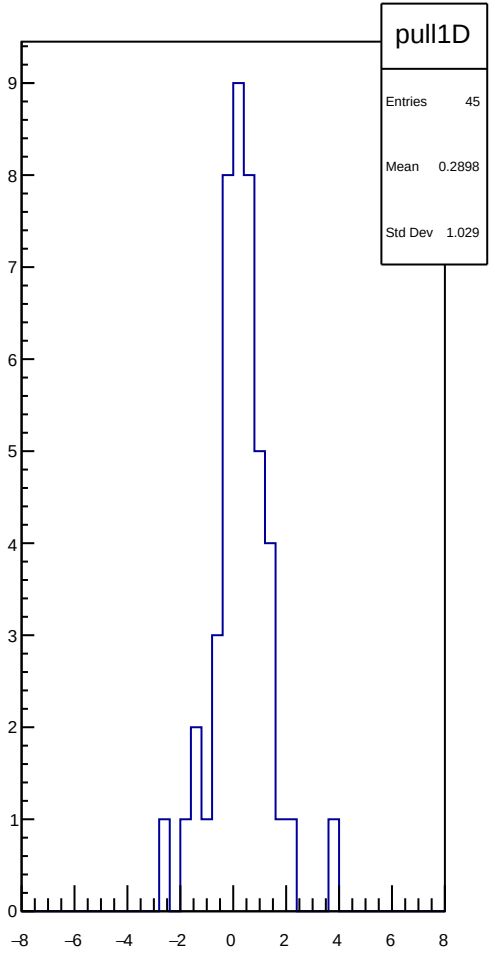

pull1D
Entries 45
Mean −0.01657
Std Dev 1.183
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

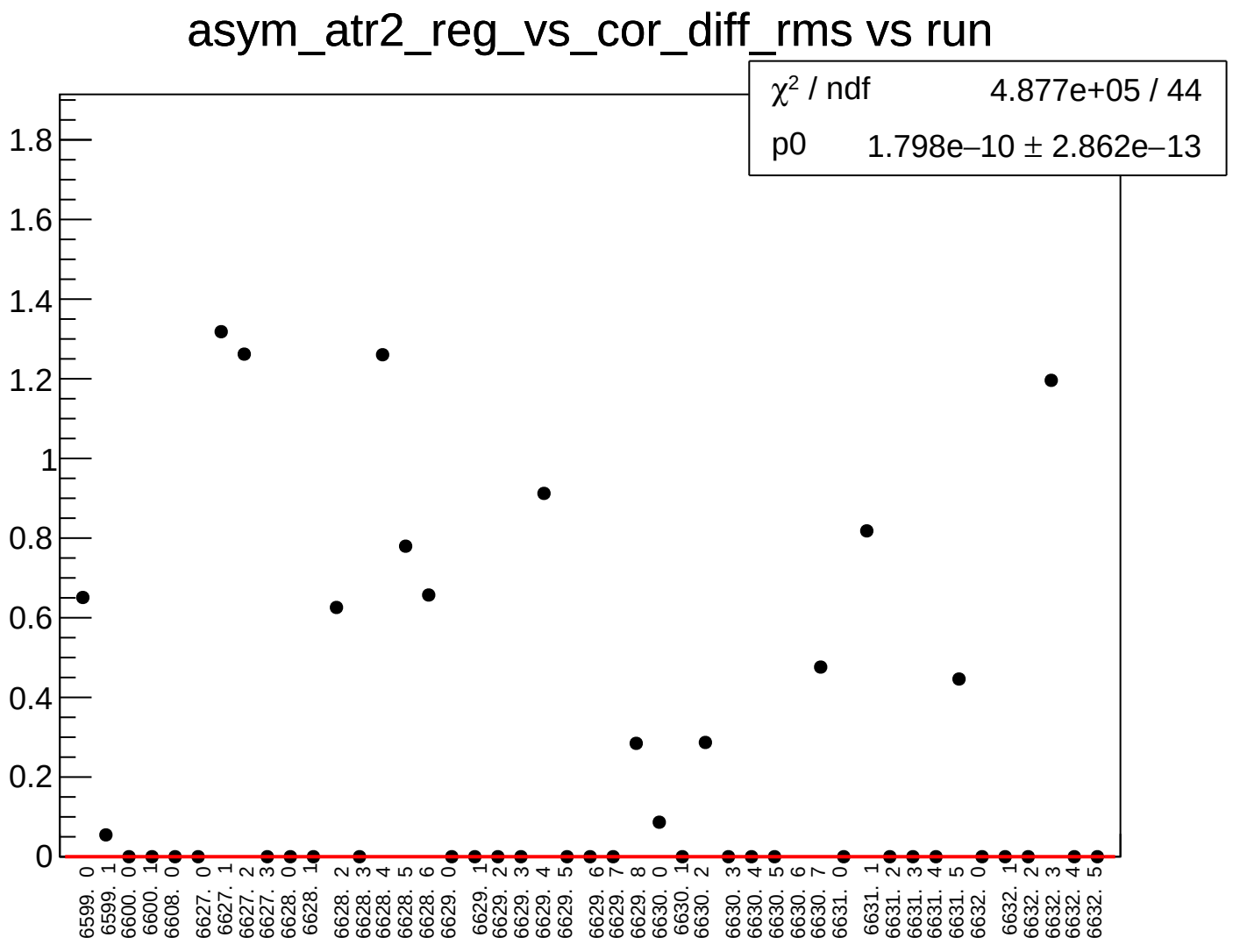

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 5913 / 44
p0 8049 ± 8.597
10000
9500
9000
8500
8000
7500
7000
6500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

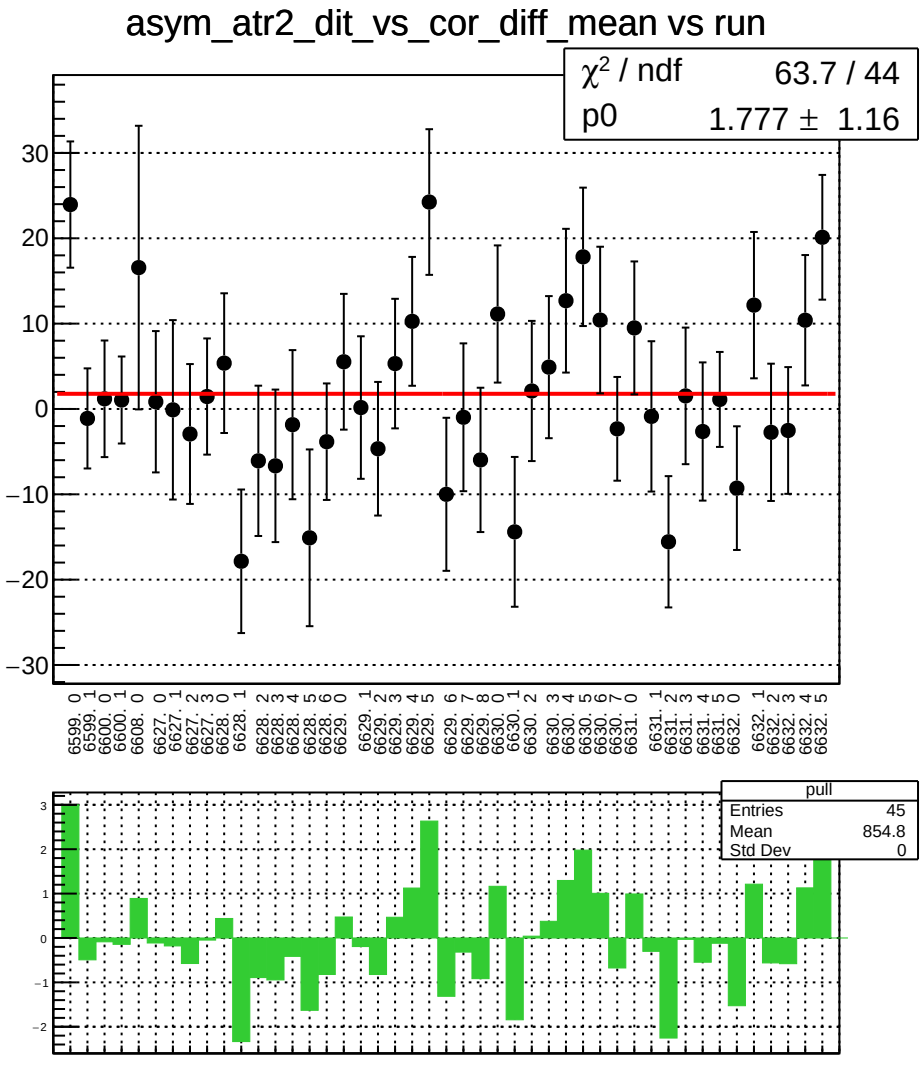

asym_atr2_mean vs run
×10^3
χ² / ndf 59.04 / 44
p0 −7227 ± 1.199e+04
300
200
100
0
−100
−200
−300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −47.47
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.02769
Std Dev 1.145
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

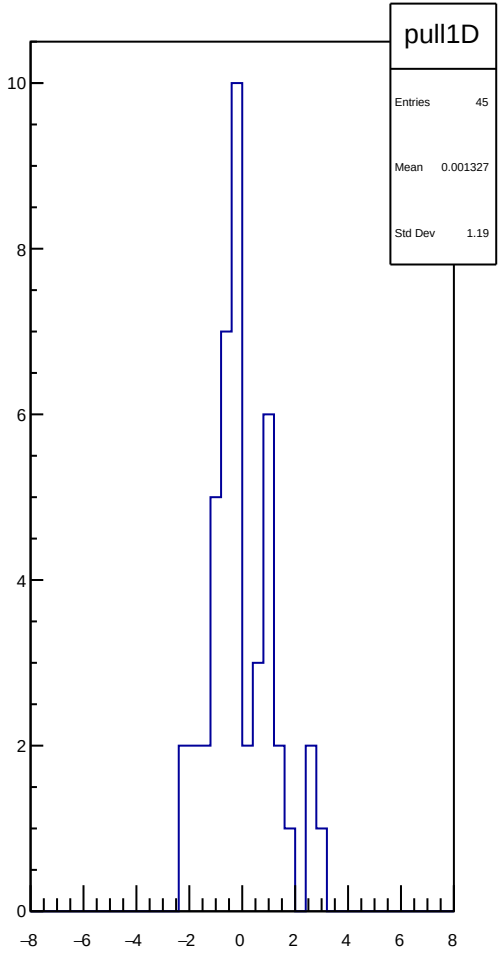

asym_atr2_rms vs run
χ² / ndf 4691 / 44
p0 7943 ± 8.478
9500
9000
8500
8000
7500
7000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

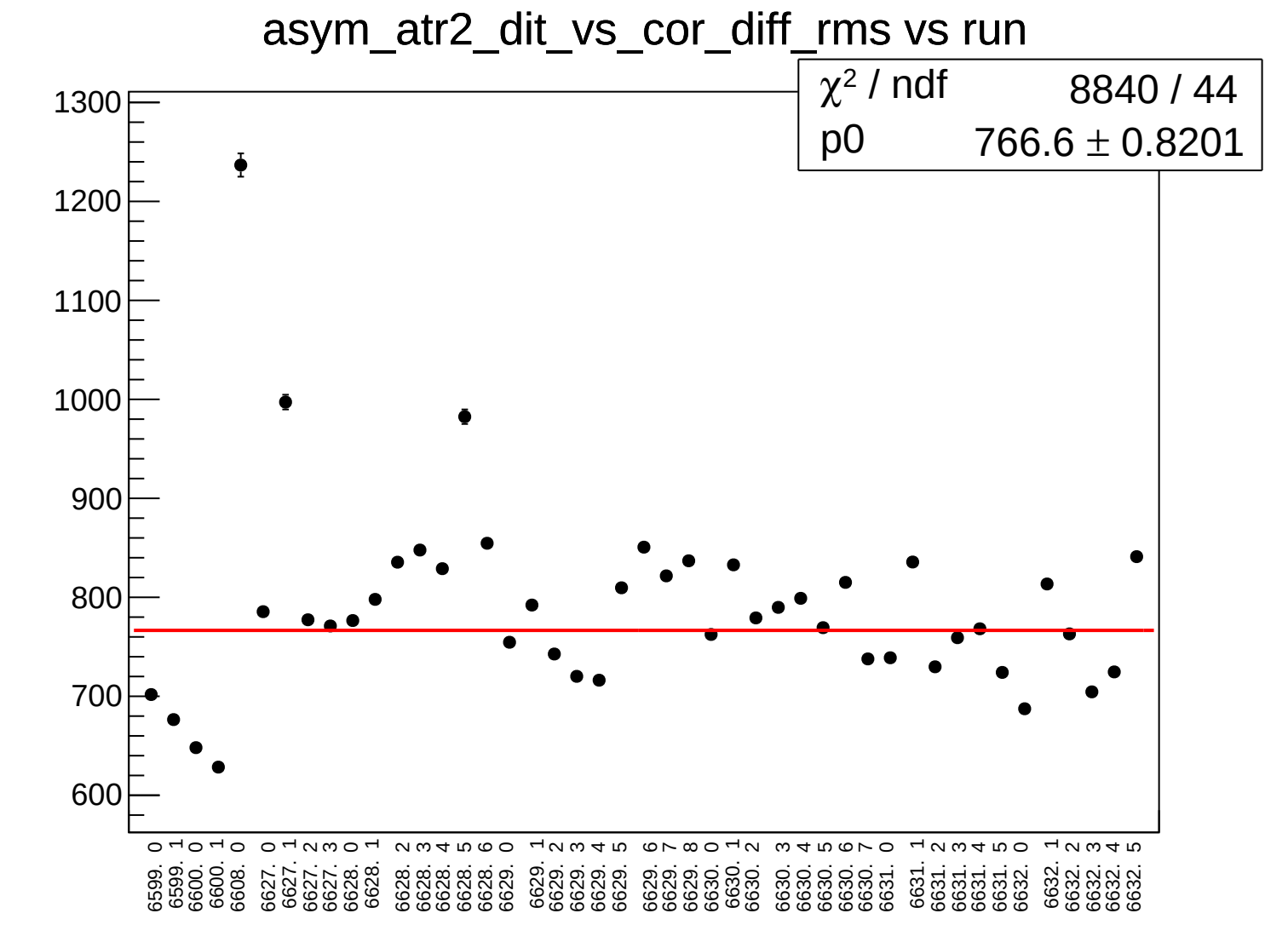

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 51.41 / 44
p0 4.042e−13 ± 4.047e−13
0.04
0.03
0.02
0.01
0
−0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 15.57
Std Dev 10.65
4
3
2
1
0
−1
−2

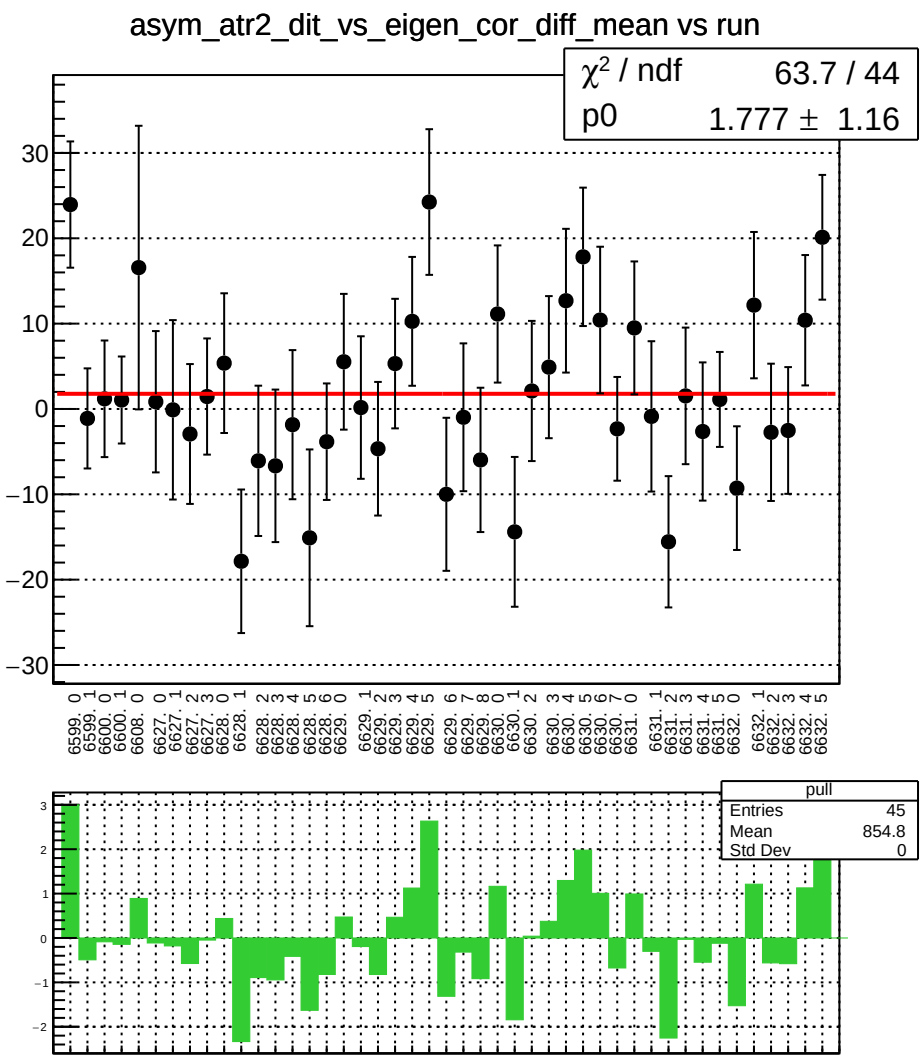

pull1D
Entries 45
Mean 0.2898
Std Dev 1.029
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

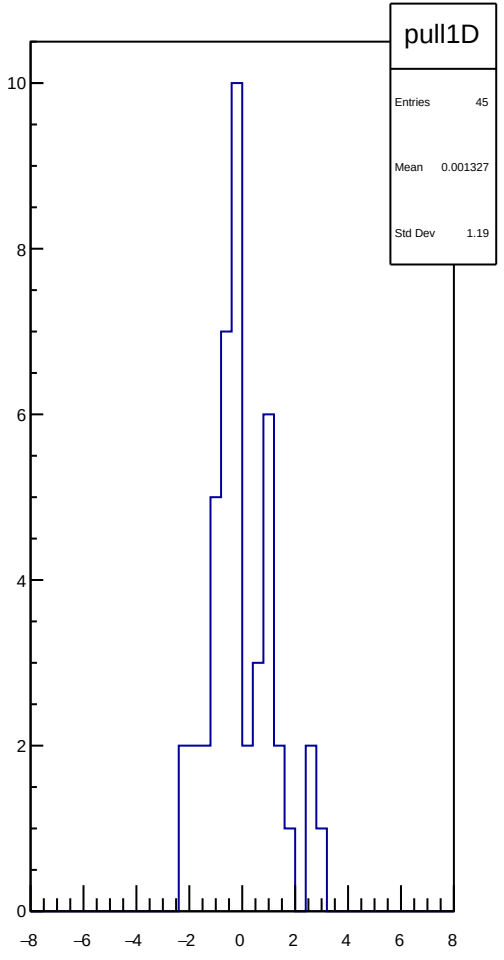

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 4.877e+05 / 44
p0 1.798e−10 ± 2.862e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

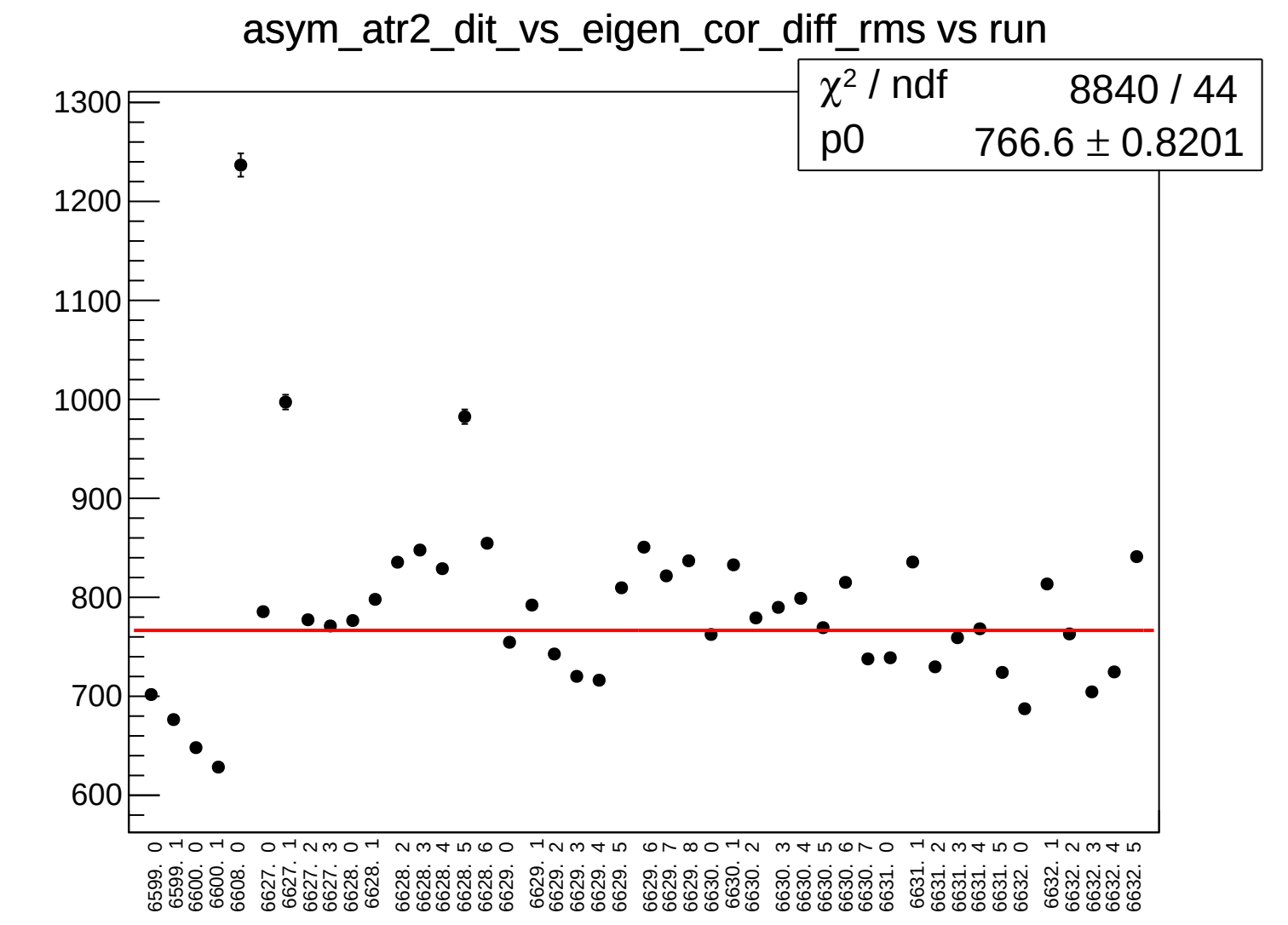

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 63.7 / 44
p0 1.777 ± 1.16
pull
Entries 45
Mean 854.8
Std Dev 0

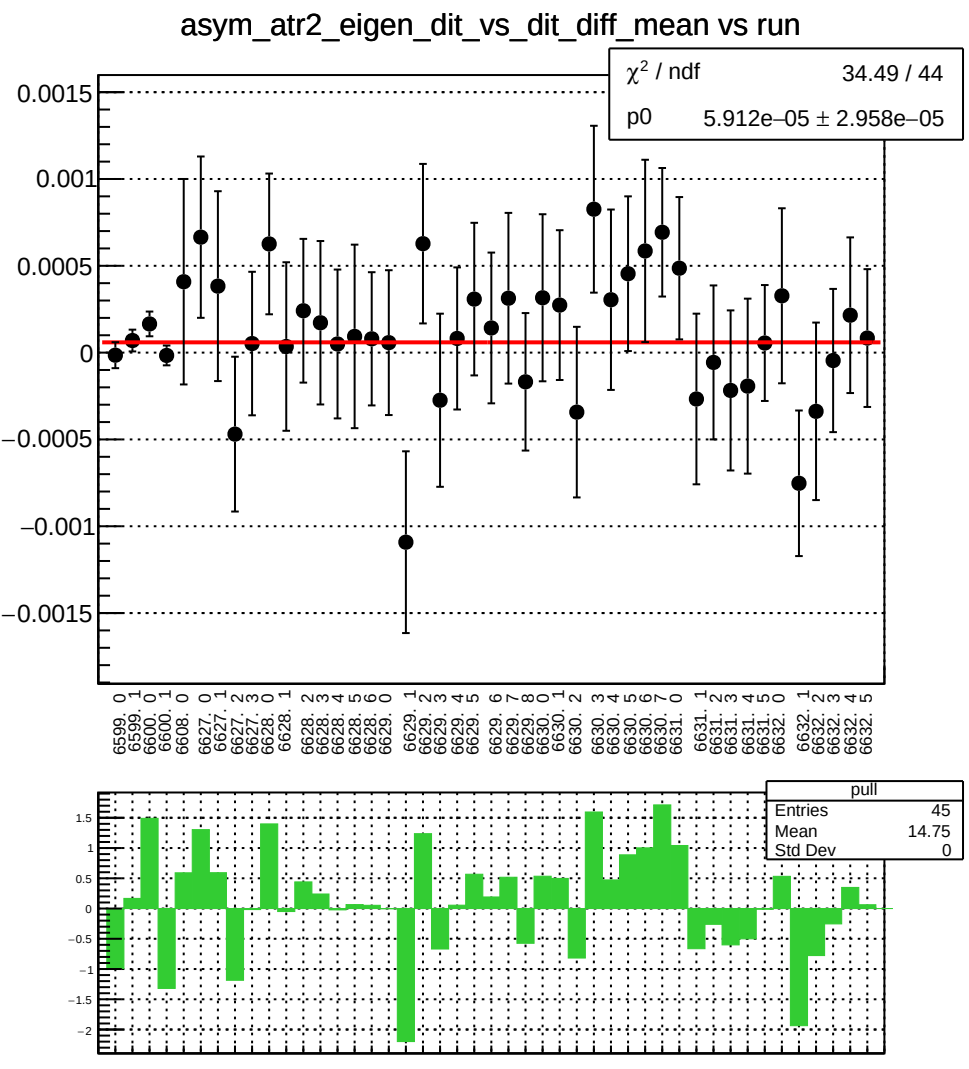

pull1D
Entries 45
Mean 0.001327
Std Dev 1.19


asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 8840 / 44
p0 766.6 ± 0.8201
1300
1200
1100
1000
900
800
700
600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.7 / 44
p0 1.777 ± 1.16
pull
Entries 45
Mean 854.8
Std Dev 0


pull1D
Entries 45
Mean 0.001327
Std Dev 1.19


asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8840 / 44
p0 766.6 ± 0.8201
1300
1200
1100
1000
900
800
700
600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 34.49 / 44
p0 5.912e−05 ± 2.958e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
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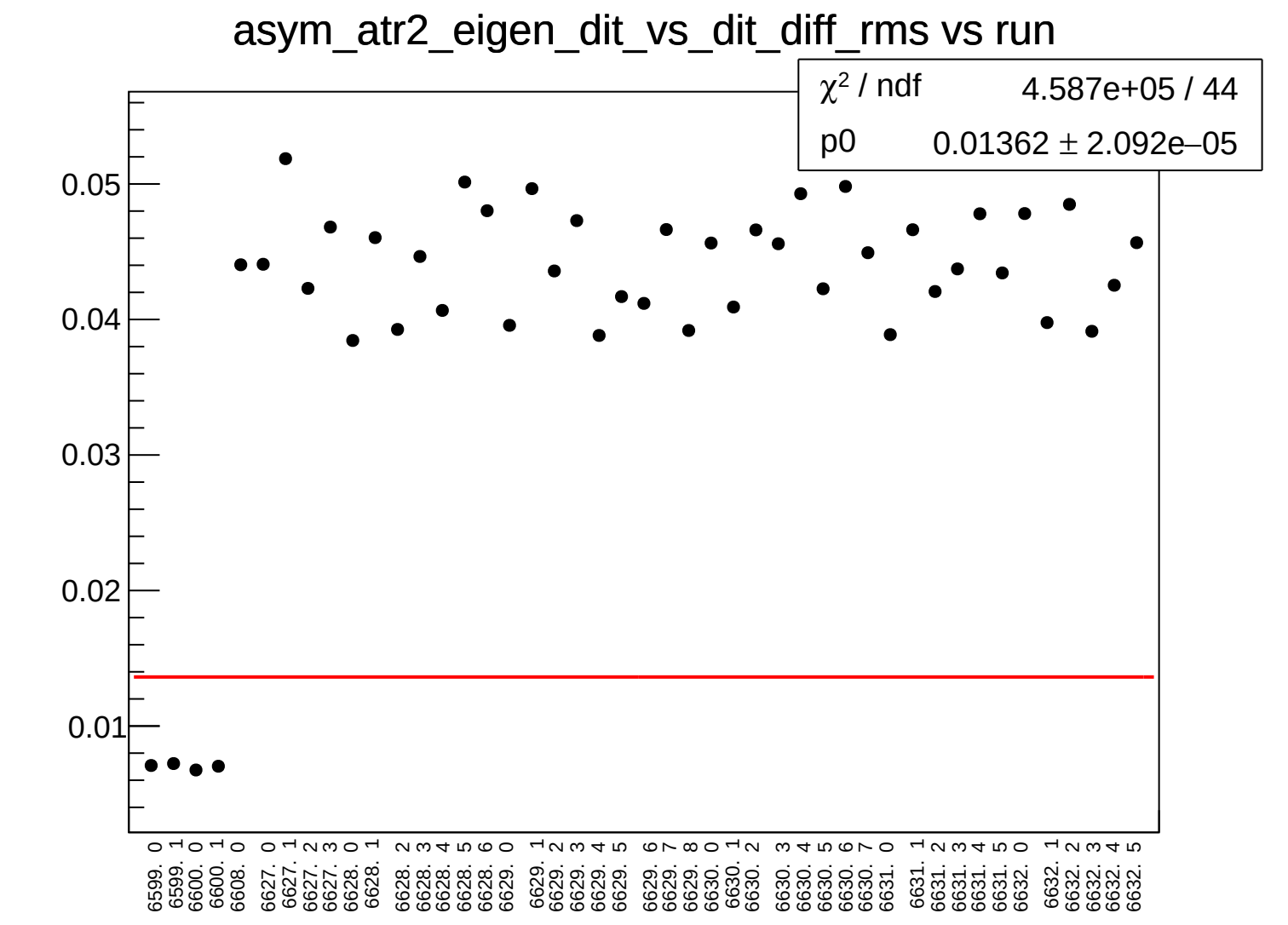
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 14.75
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.1054
Std Dev 0.8692
9
8
7
6
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 4.587e+05 / 44
p0 0.01362 ± 2.092e−05
0.05
0.04
0.03
0.02
0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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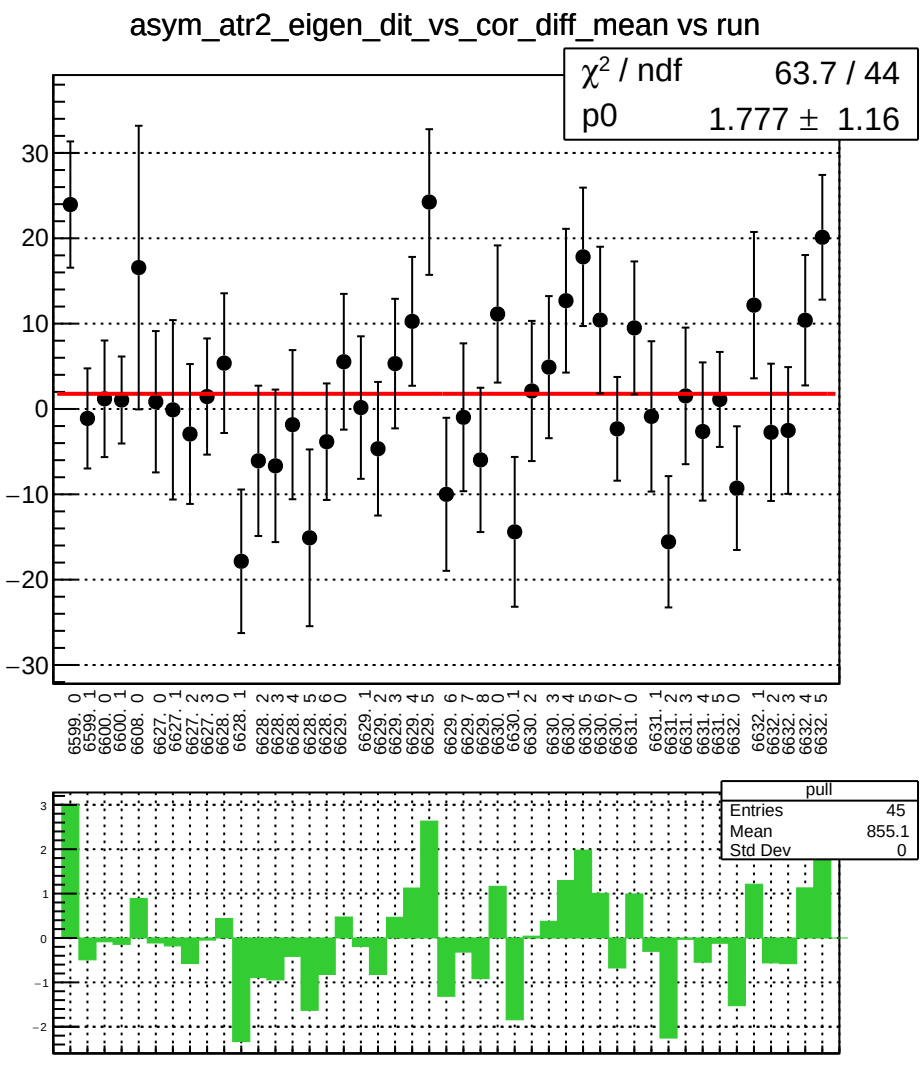
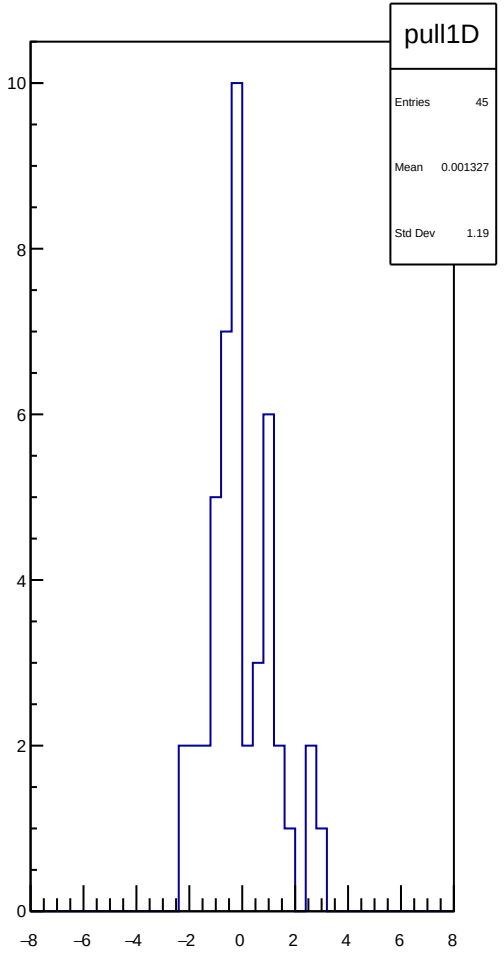
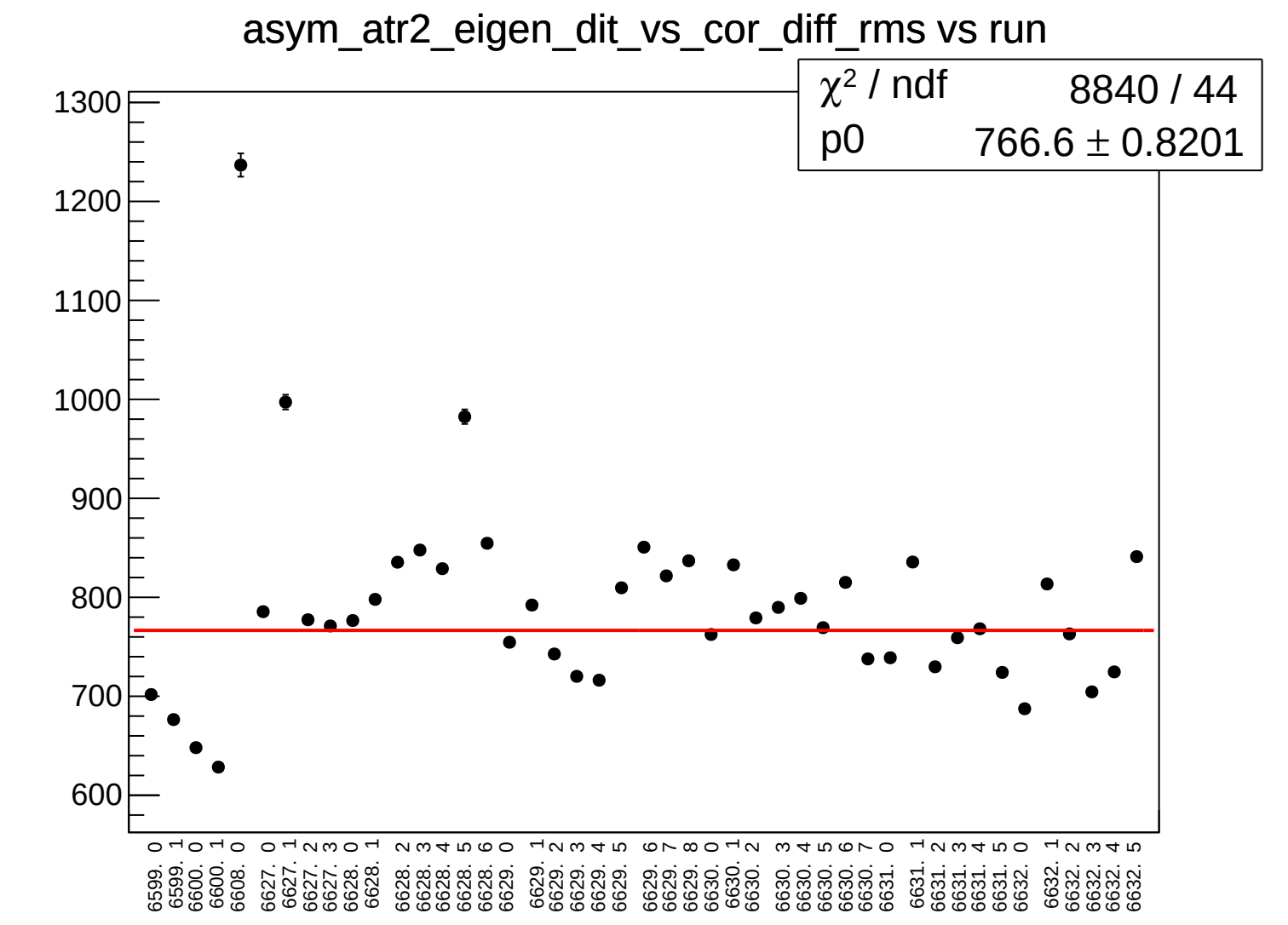
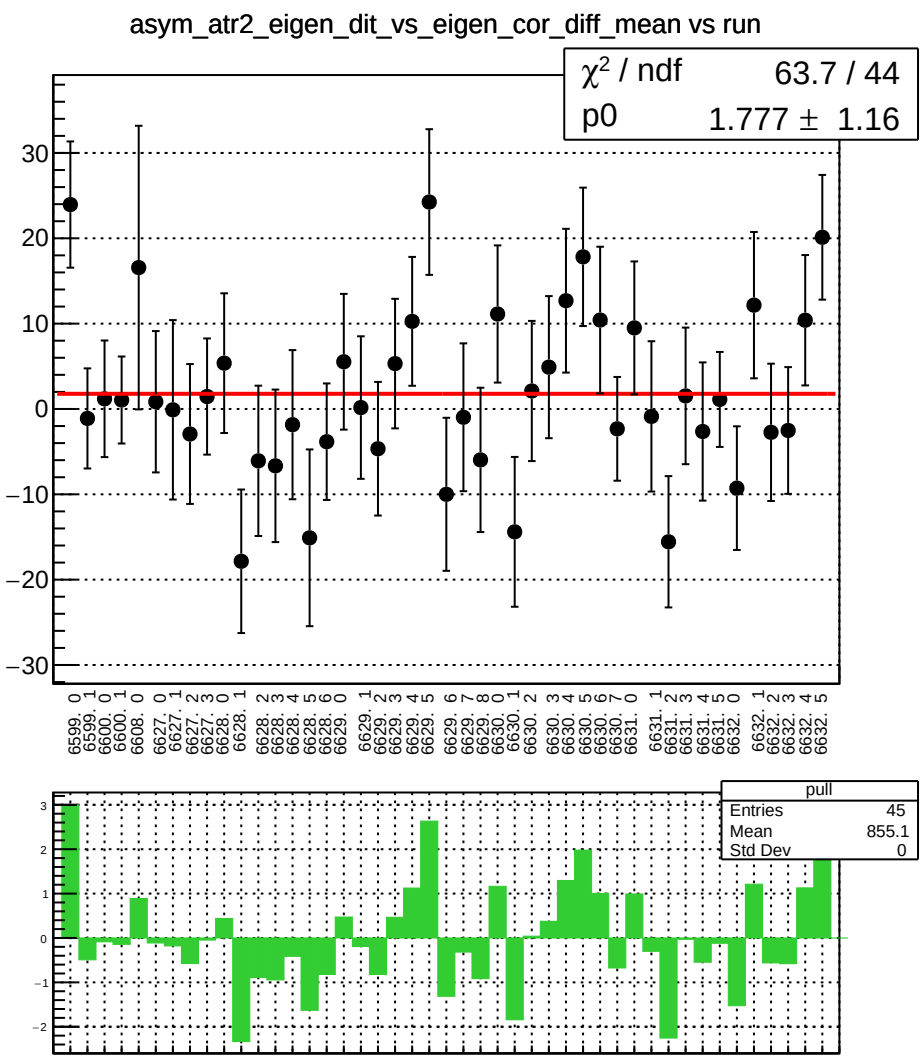
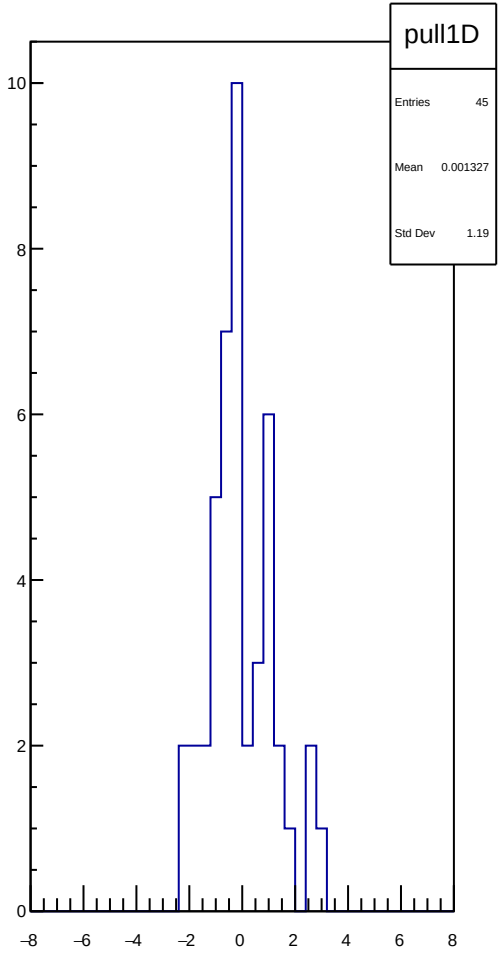
6632. 2
6632. 3
6632. 4
6632. 5

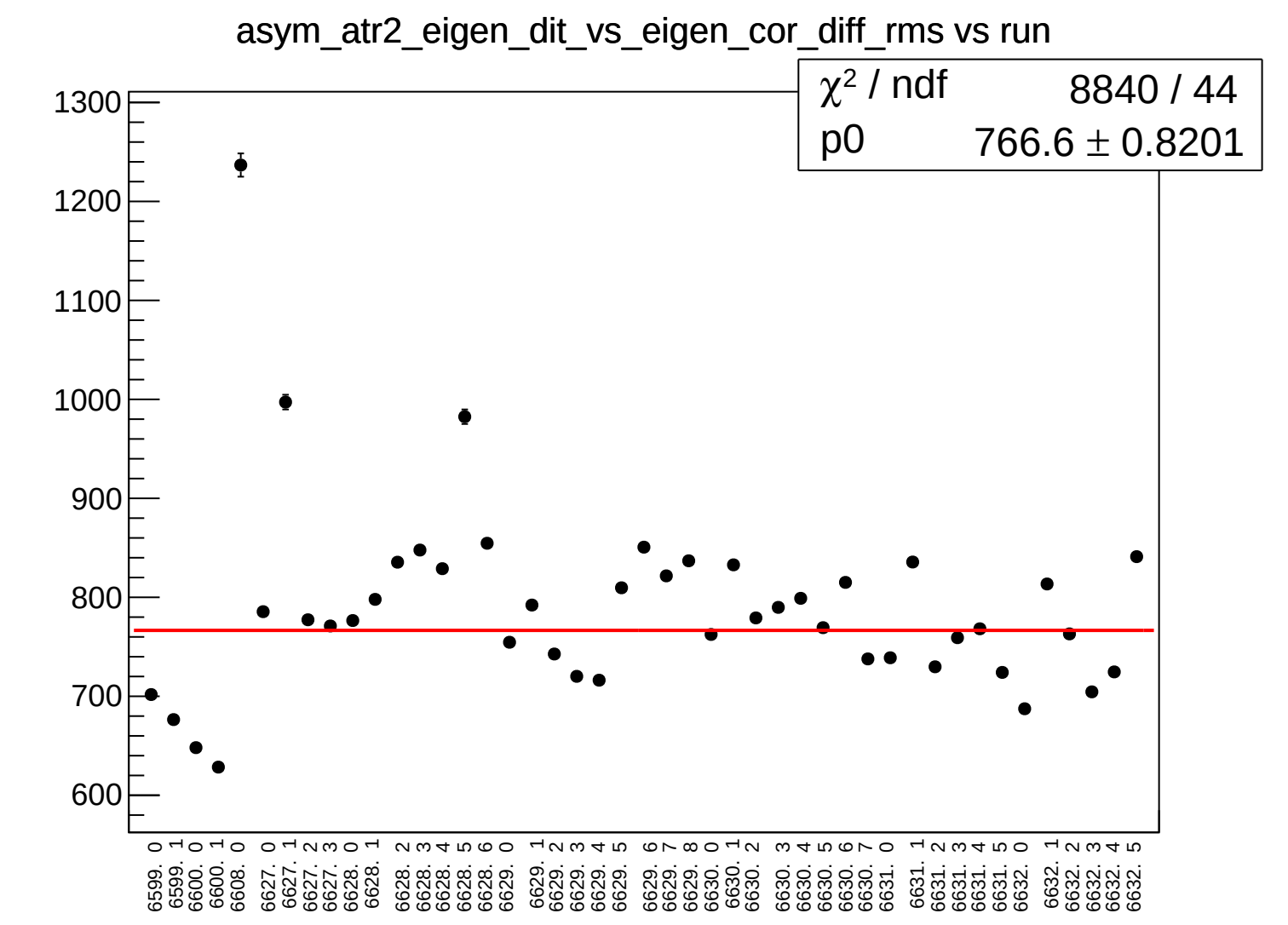

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 63.7 / 44
p0 1.777 ± 1.16
pull
Entries 45
Mean 855.1
Std Dev 0

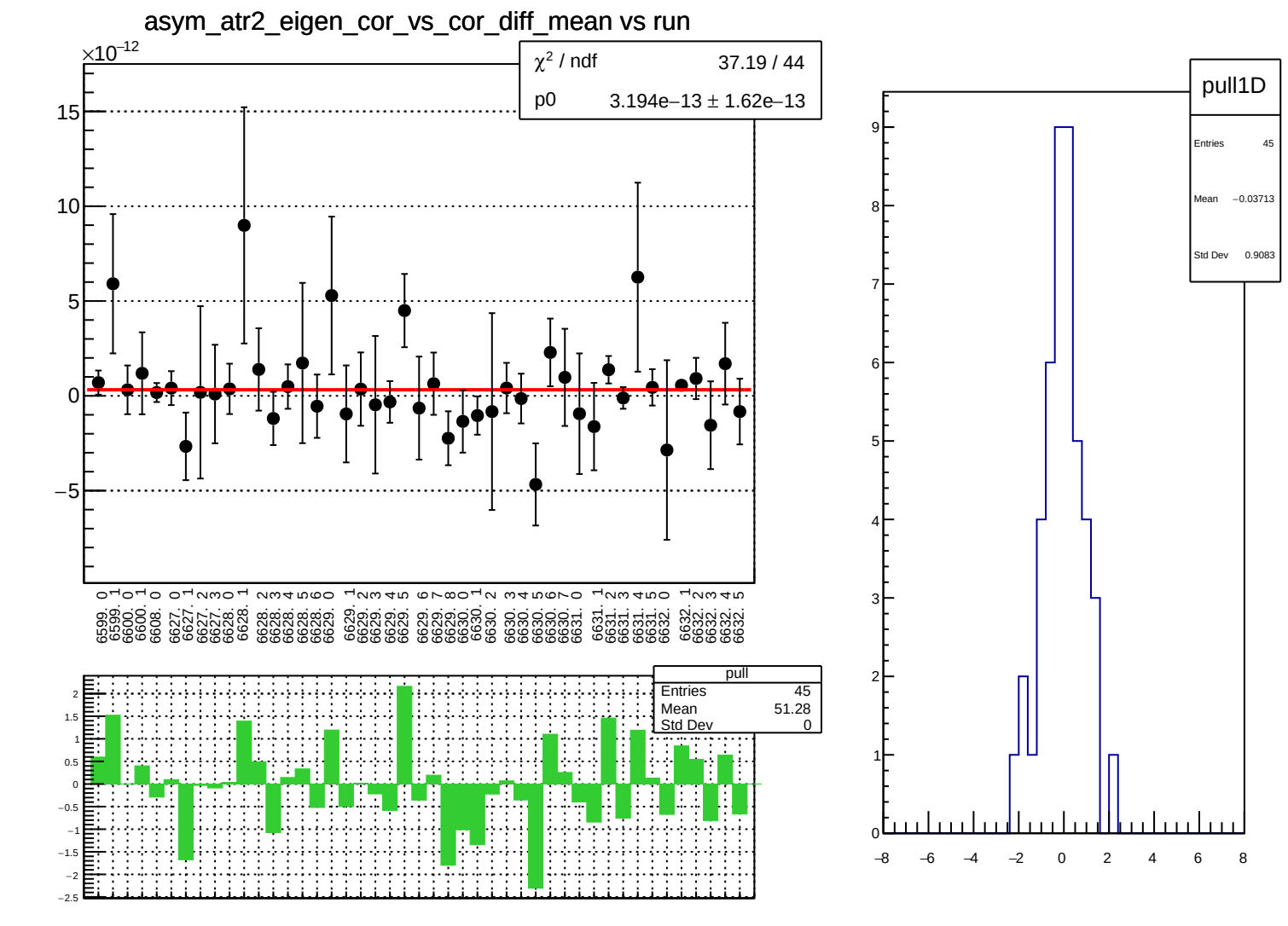

pull1D
Entries 45
Mean 0.001327
Std Dev 1.19

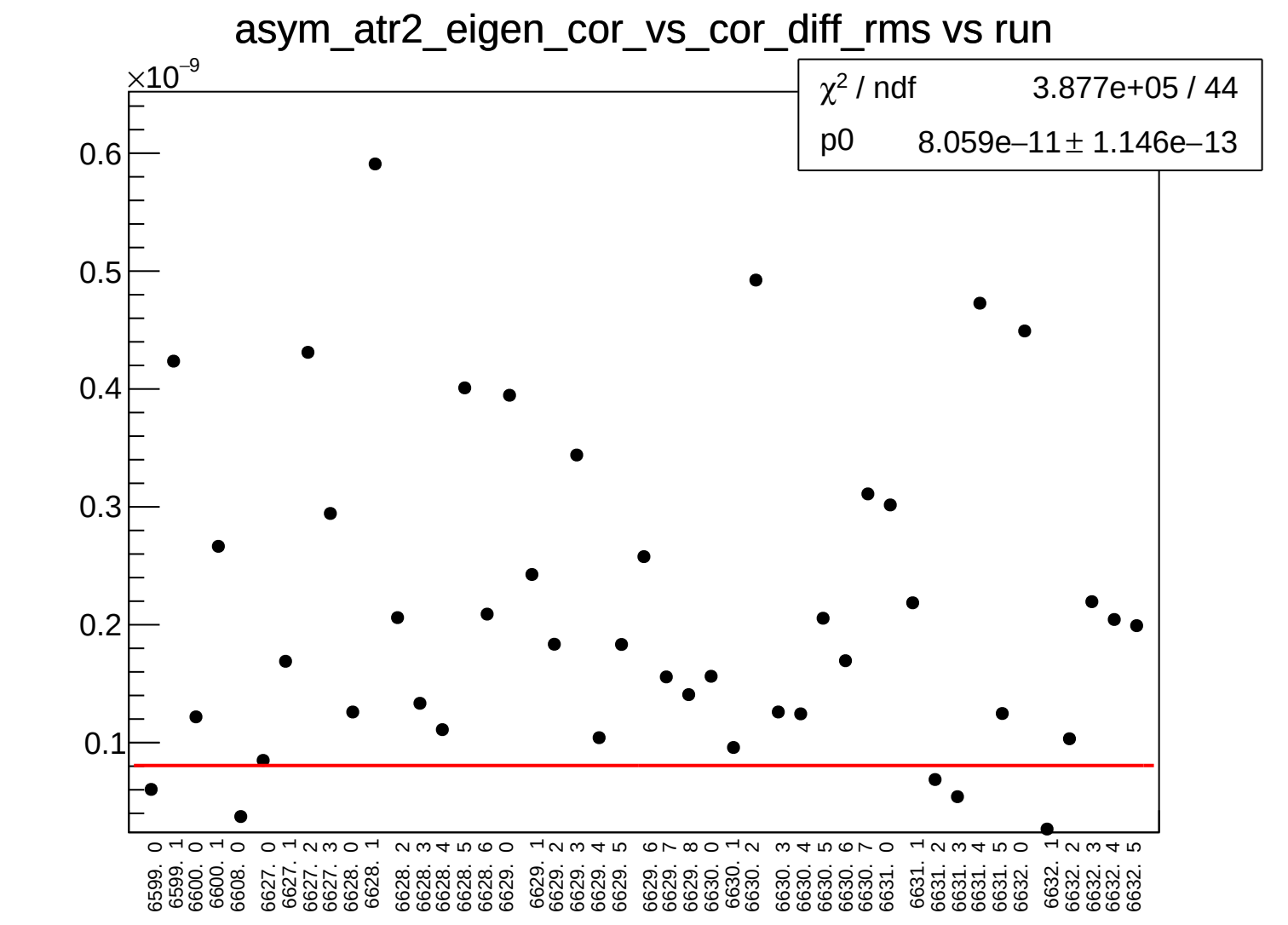

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8840 / 44
p0 766.6 ± 0.8201
1300
1200
1100
1000
900
800
700
600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

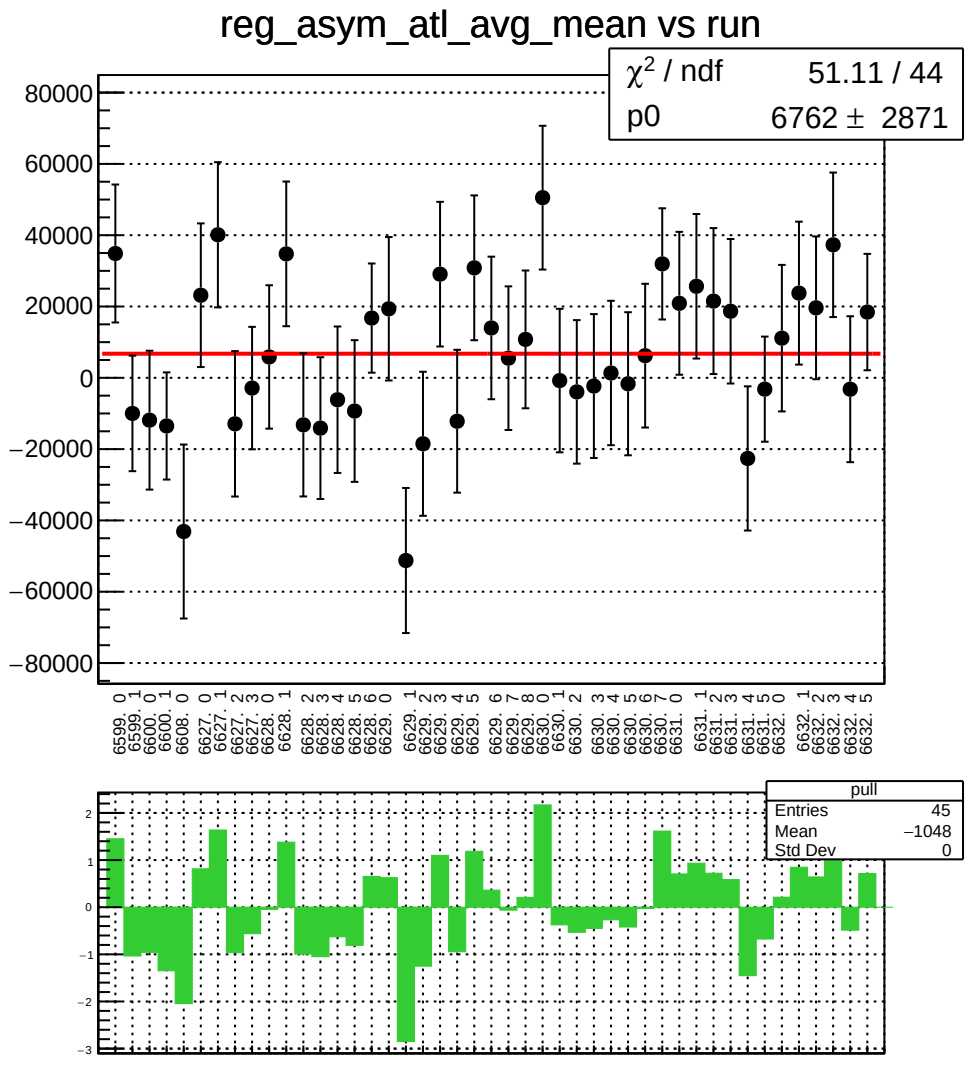

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.7 / 44
p0 1.777 ± 1.16
pull
Entries 45
Mean 855.1
Std Dev 0

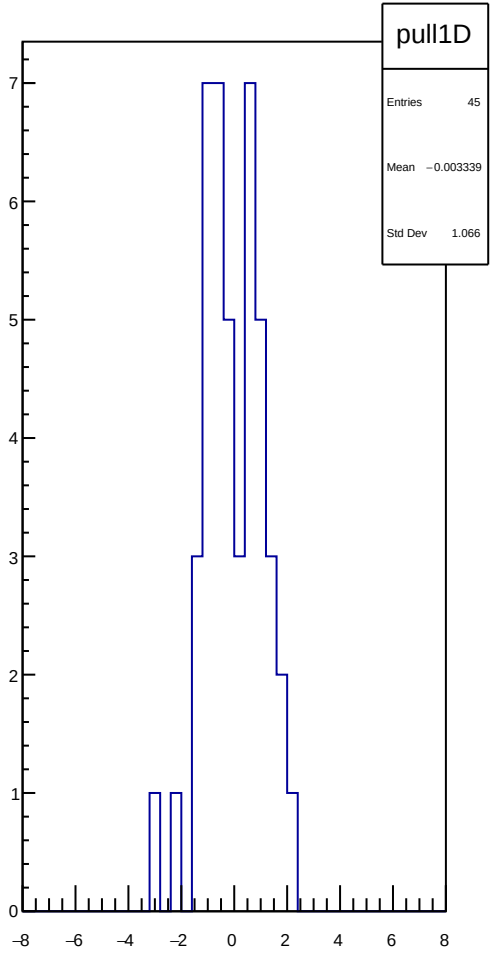

pull1D
Entries 45
Mean 0.001327
Std Dev 1.19

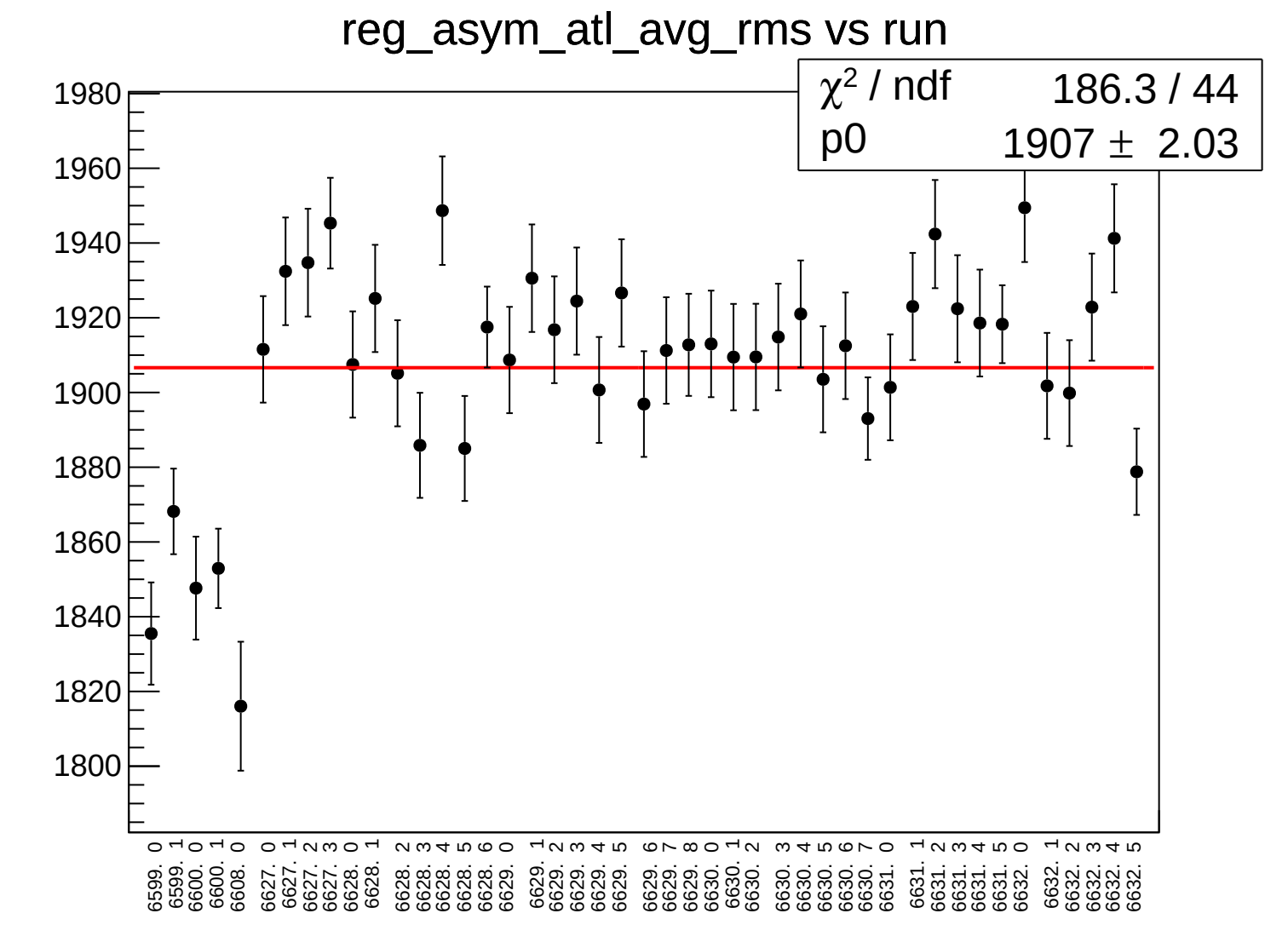

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8840 / 44
p0 766.6 ± 0.8201
1300
1200
1100
1000
900
800
700
600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

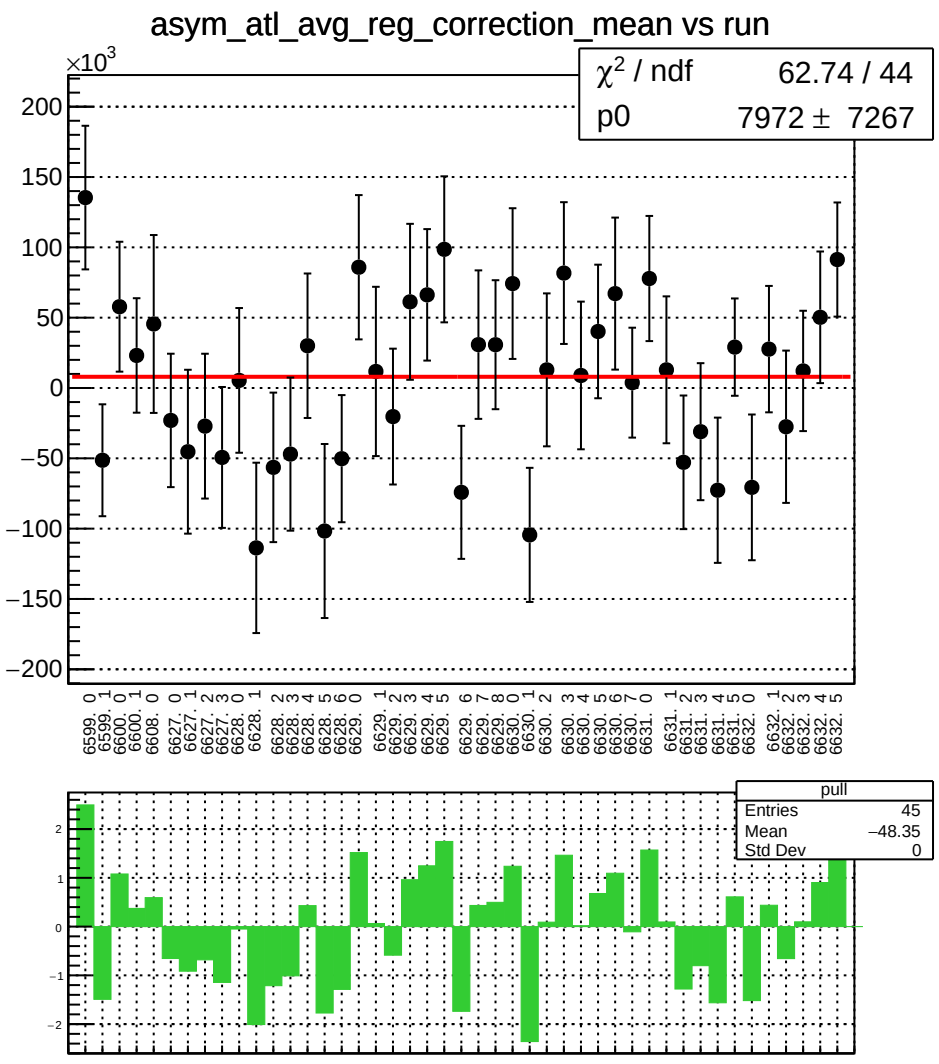

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 37.19 / 44
p0 3.194e−13 ± 1.62e−13
15
10
5
0
−5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 51.28
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.03713
Std Dev 0.9083
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

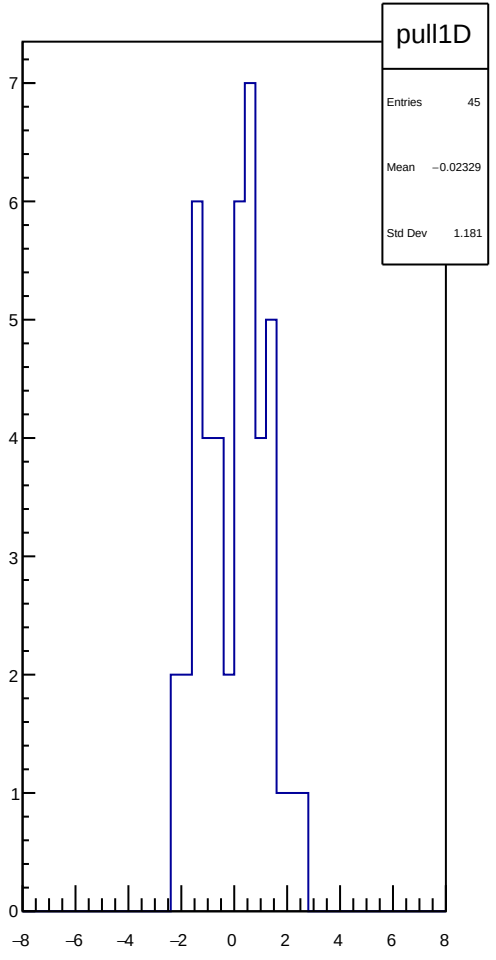

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.877e+05 / 44
p0 8.059e−11 ± 1.146e−13
0.6
0.5
0.4
0.3
0.2
0.1
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

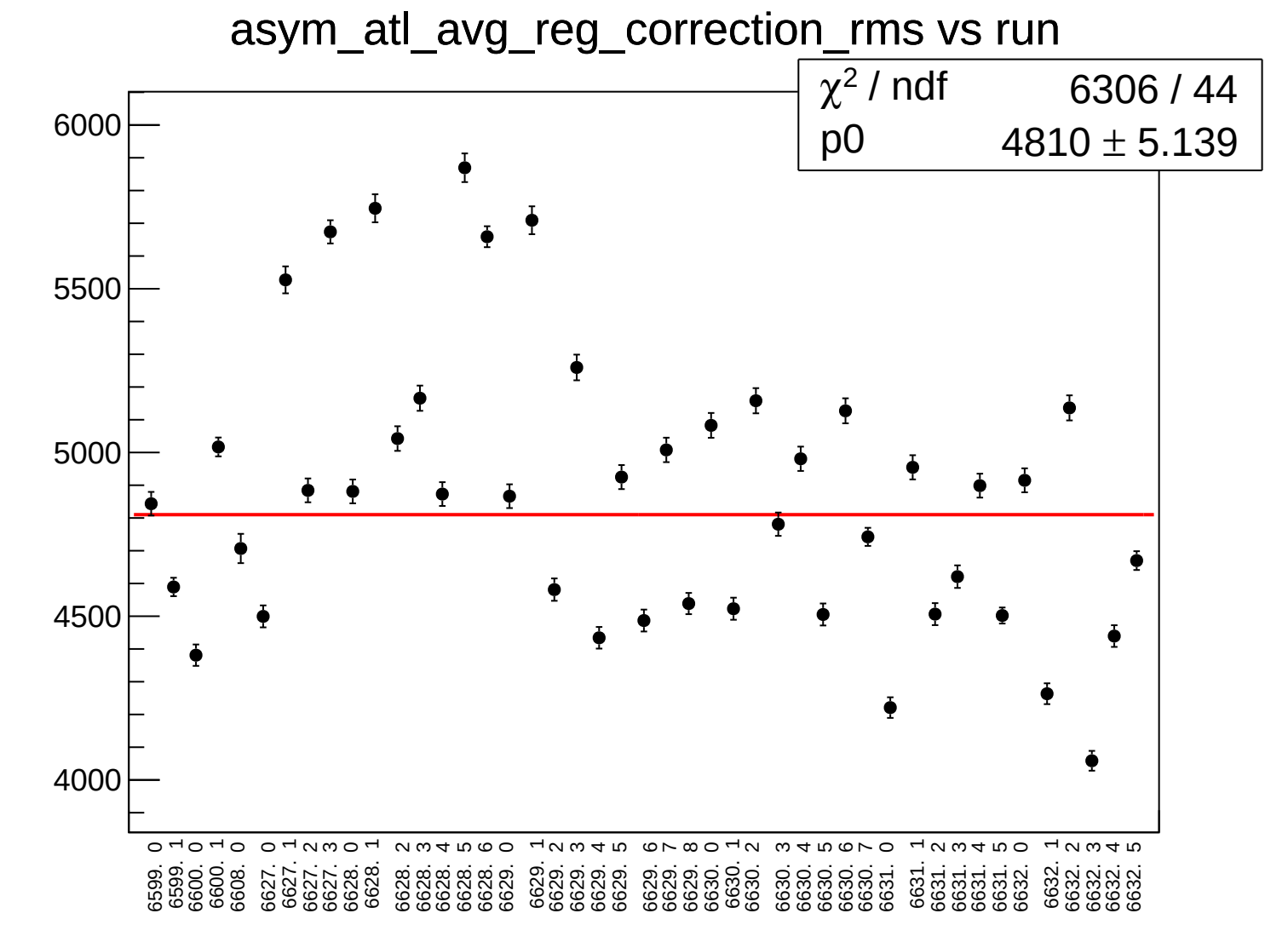

reg_asym_atl_avg_mean vs run
χ² / ndf 51.11 / 44
p0 6762 ± 2871
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −1048
Std Dev 0
2
1
0
−1
−2
−3

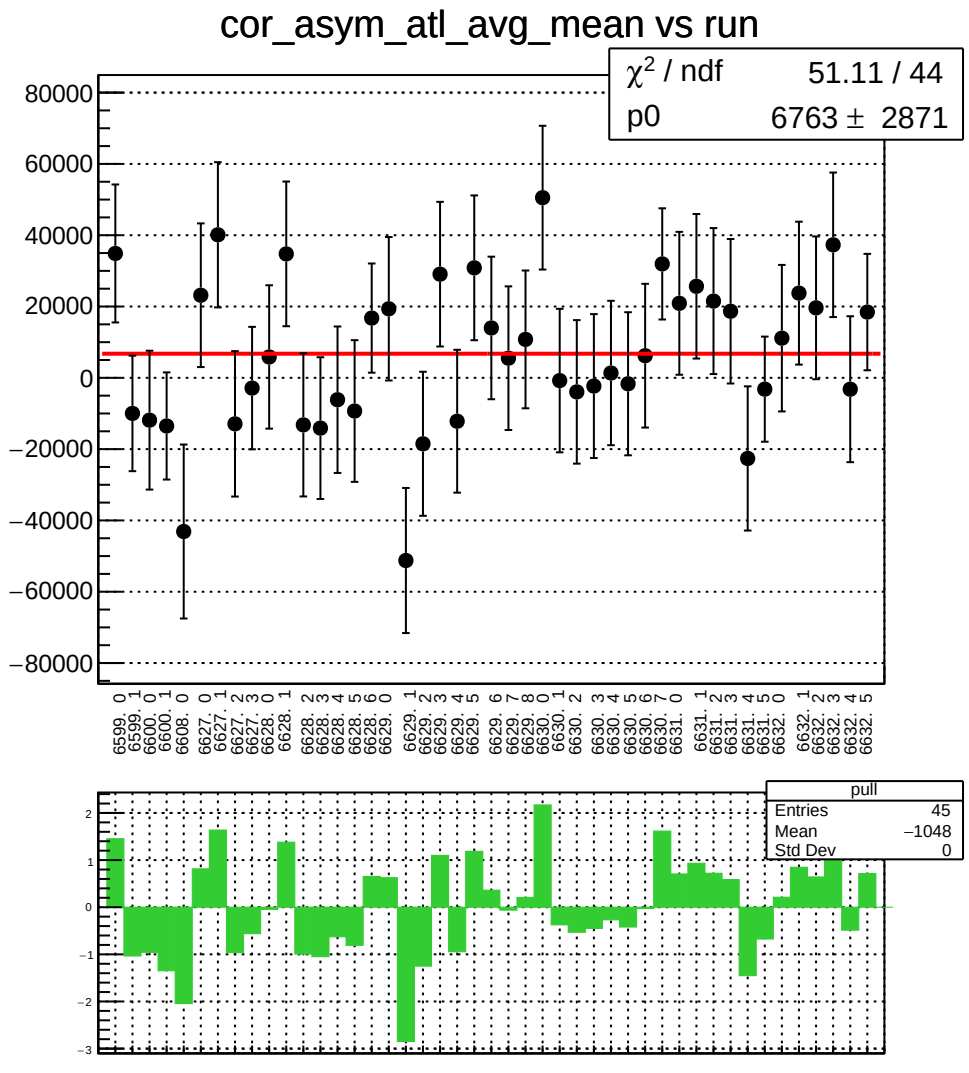

pull1D
Entries 45
Mean −0.003339
Std Dev 1.066
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_rms vs run
χ² / ndf 186.3 / 44
p0 1907 ± 2.03
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 62.74 / 44
p0 7972 ± 7267
200
150
100
50
0
−50
−100
−150
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −48.35
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.02329
Std Dev 1.181
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 6306 / 44
p0 4810 ± 5.139
6000
5500
5000
4500
4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_atl_avg_mean vs run
χ² / ndf 51.11 / 44
p0 6763 ± 2871
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
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6630. 2
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6630. 4
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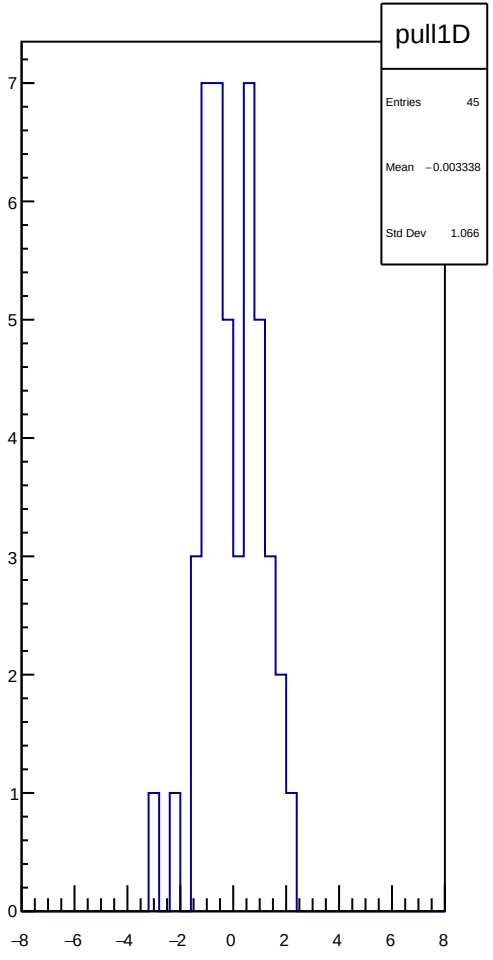
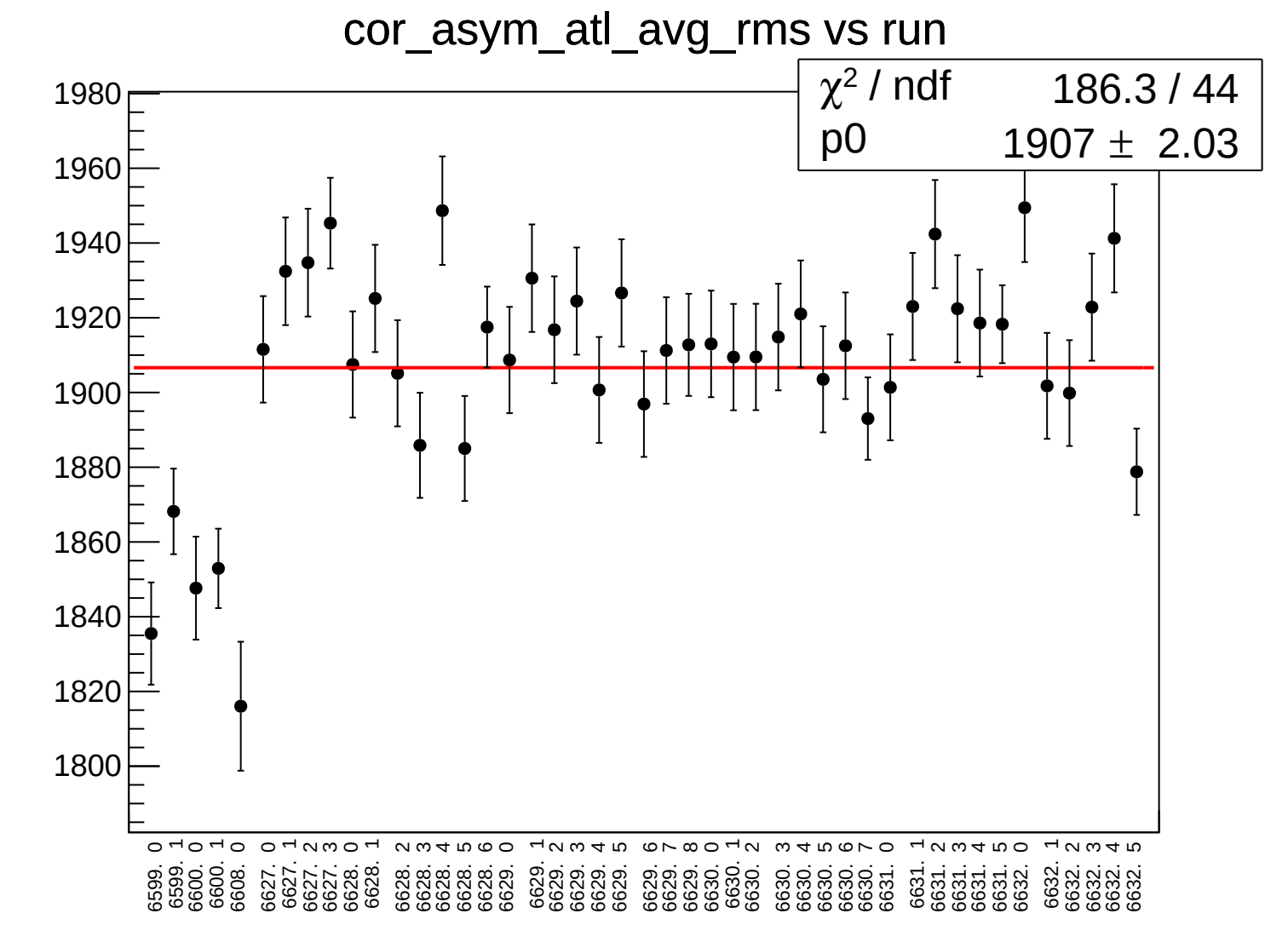
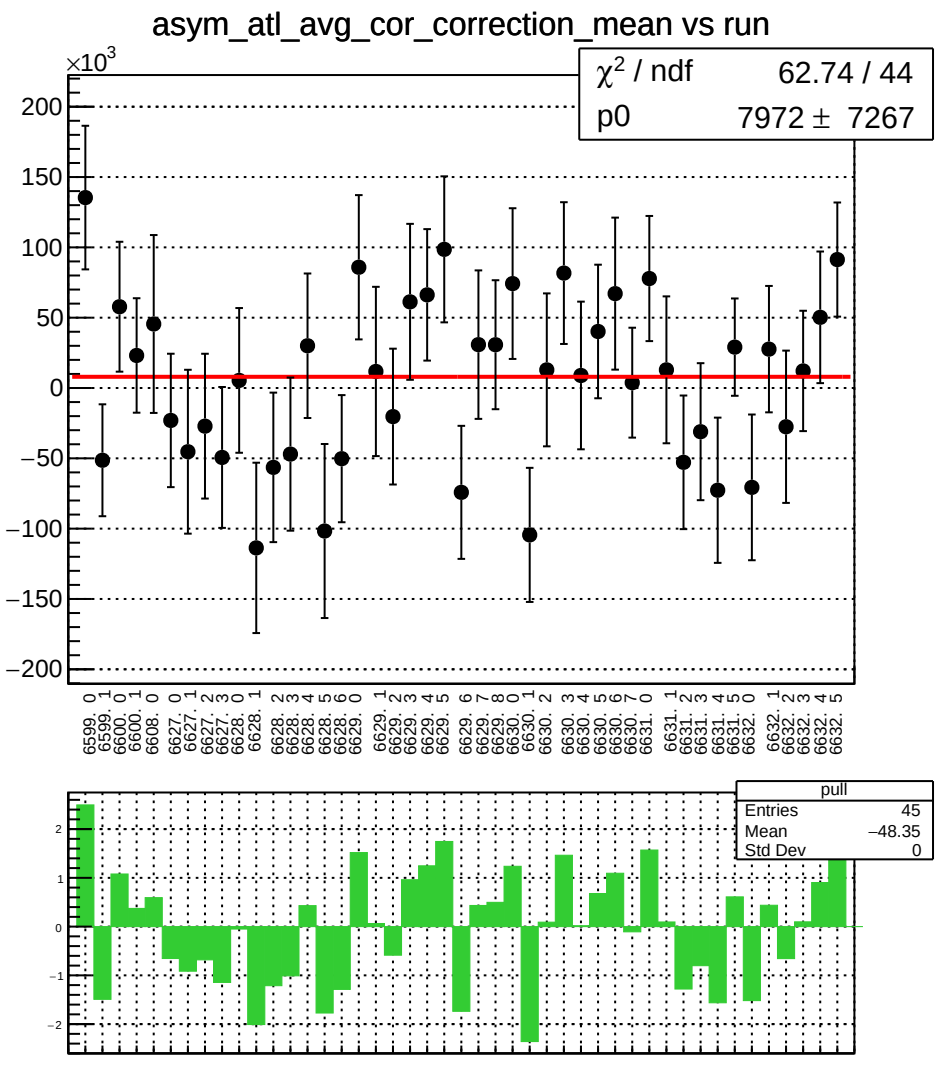
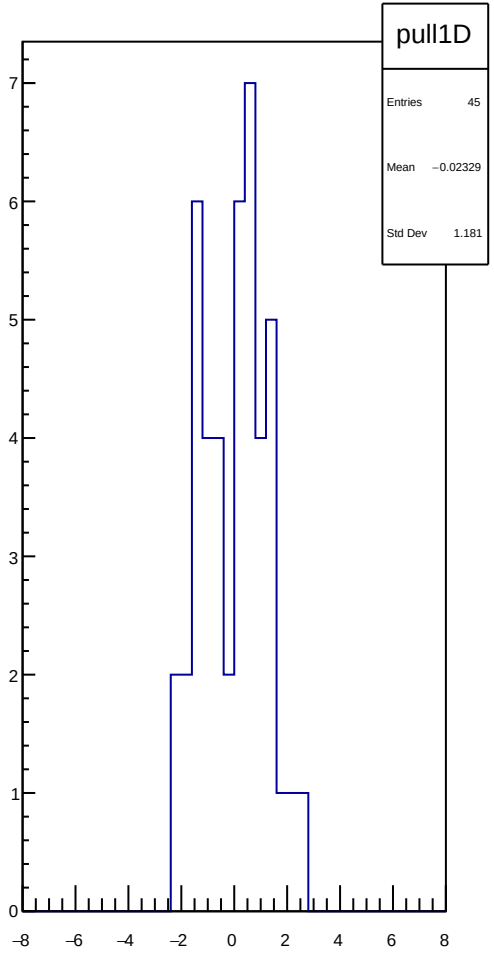
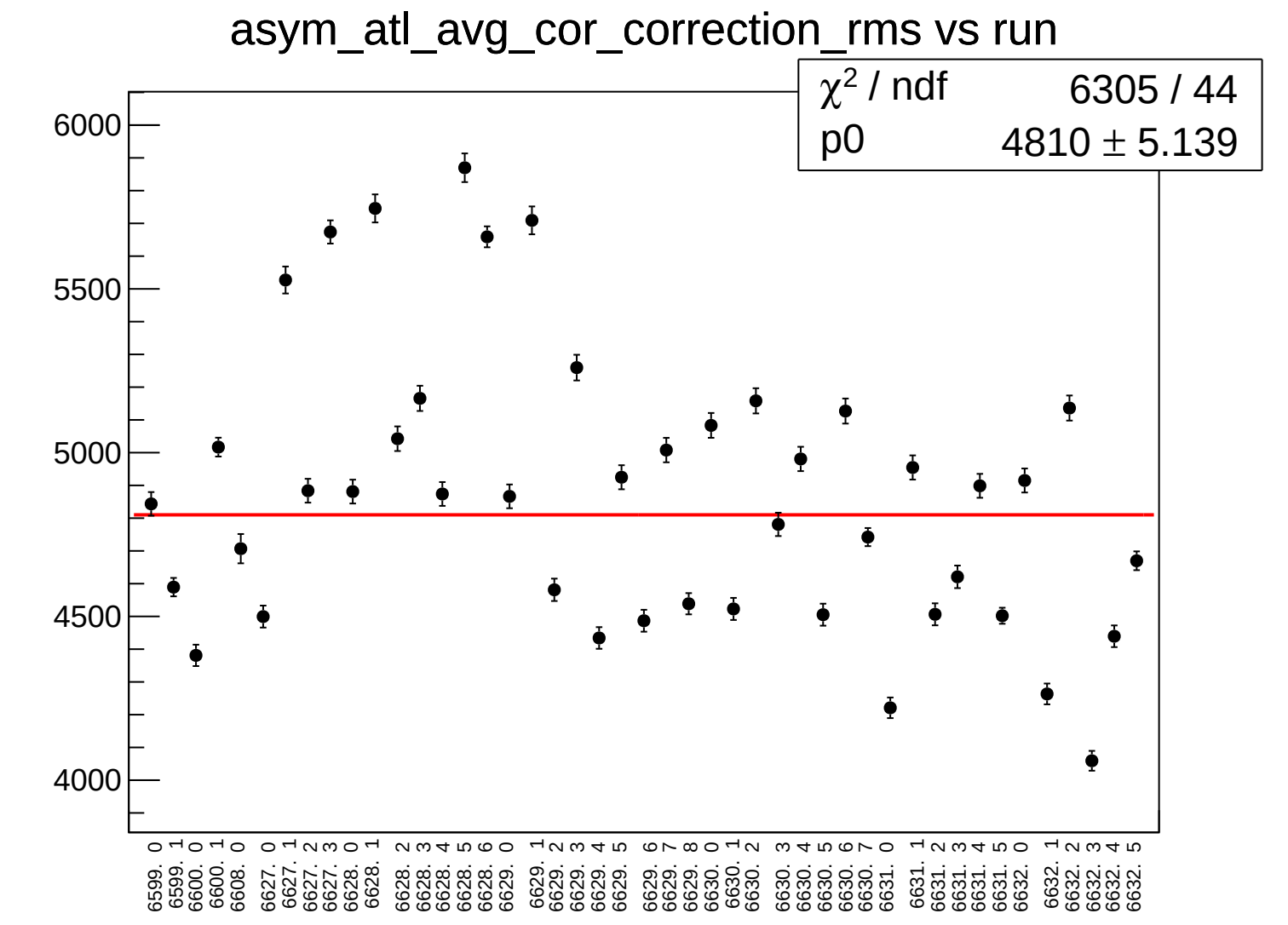
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −1048
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.003338
Std Dev 1.066
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl_avg_rms vs run
χ² / ndf 186.3 / 44
p0 1907 ± 2.03
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl_avg_cor_correction_mean vs run
×10^3
χ² / ndf 62.74 / 44
p0 7972 ± 7267
200
150
100
50
0
−50
−100
−150
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −48.35
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.02329
Std Dev 1.181
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 6305 / 44
p0 4810 ± 5.139
6000
5500
5000
4500
4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
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6629. 2
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6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
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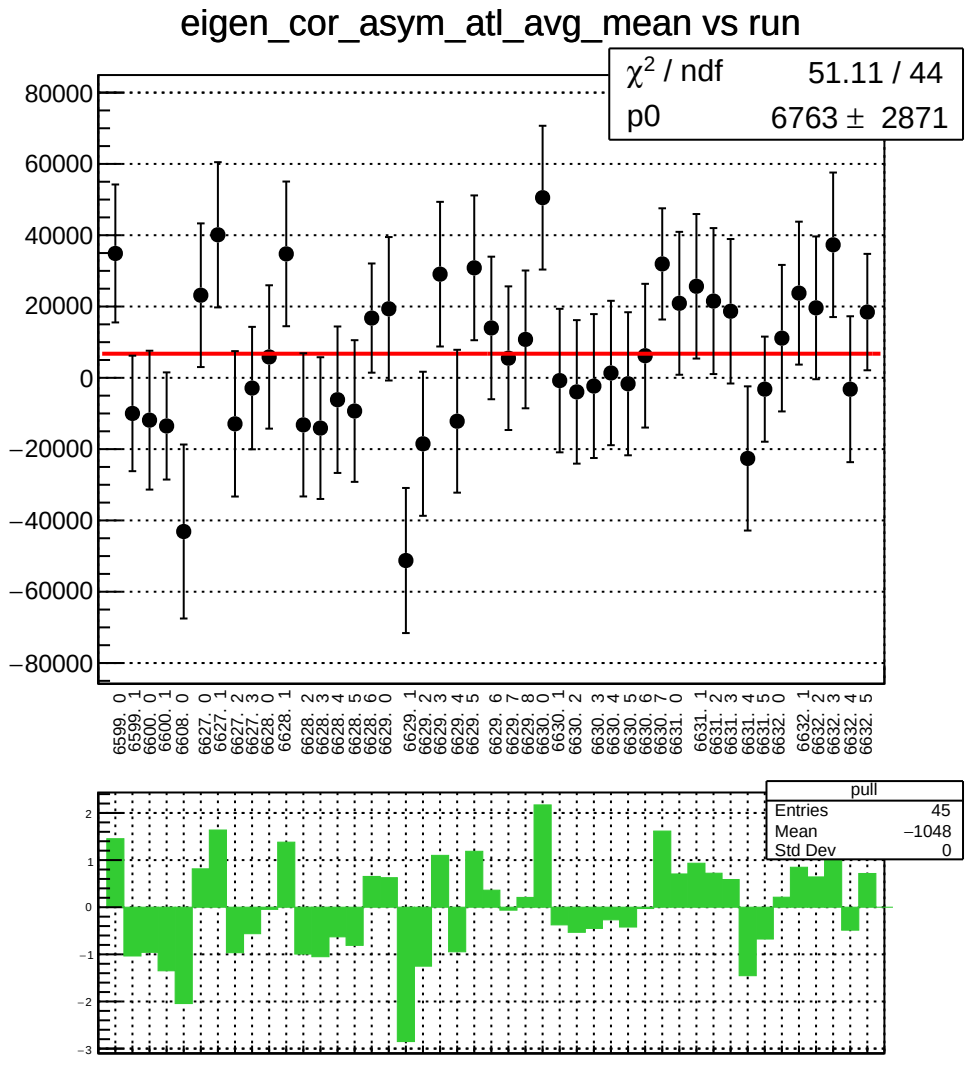
6632. 4
6632. 5


eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 51.11 / 44
p0 6763 ± 2871
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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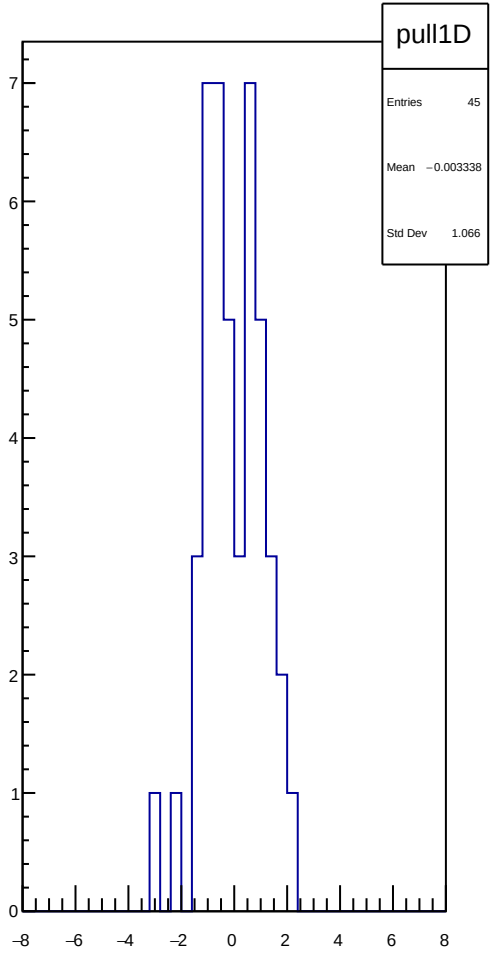
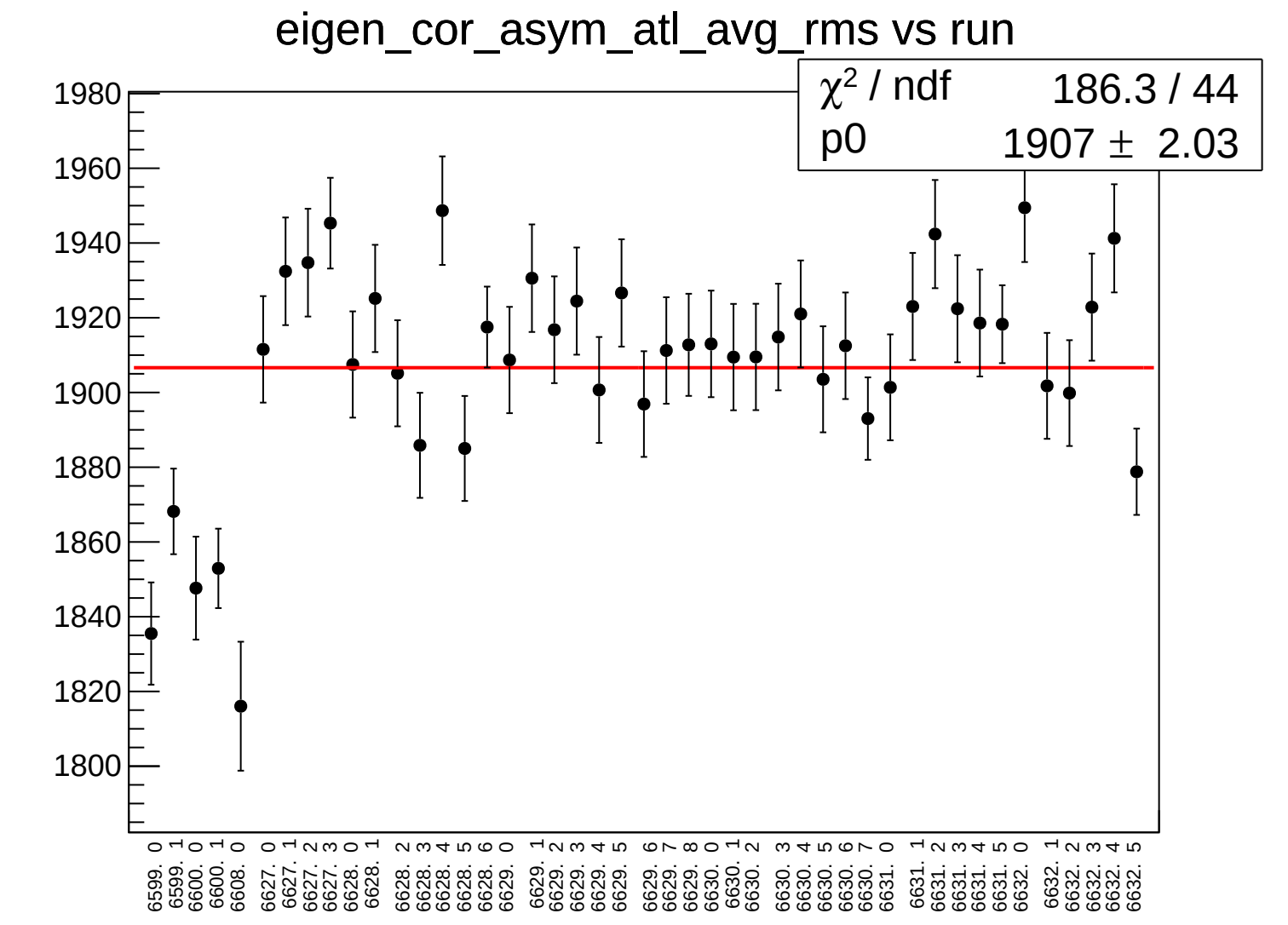
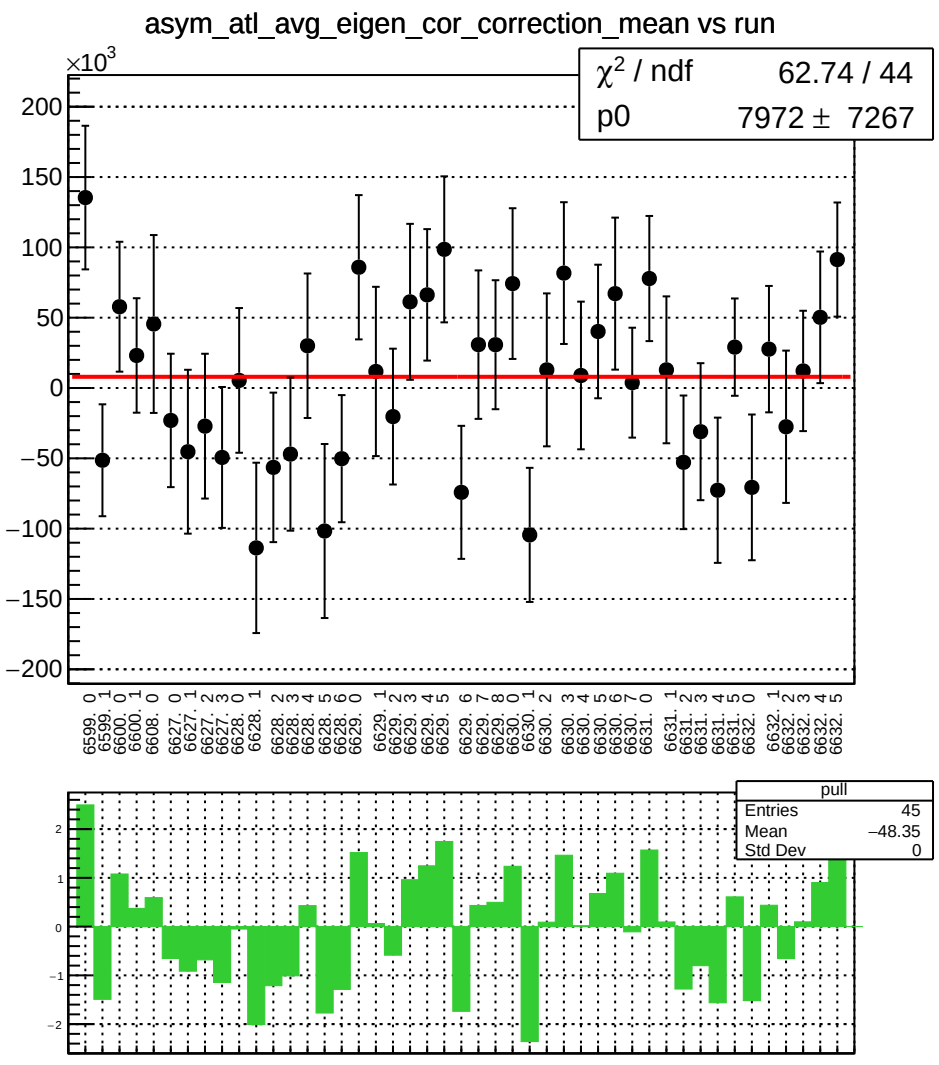
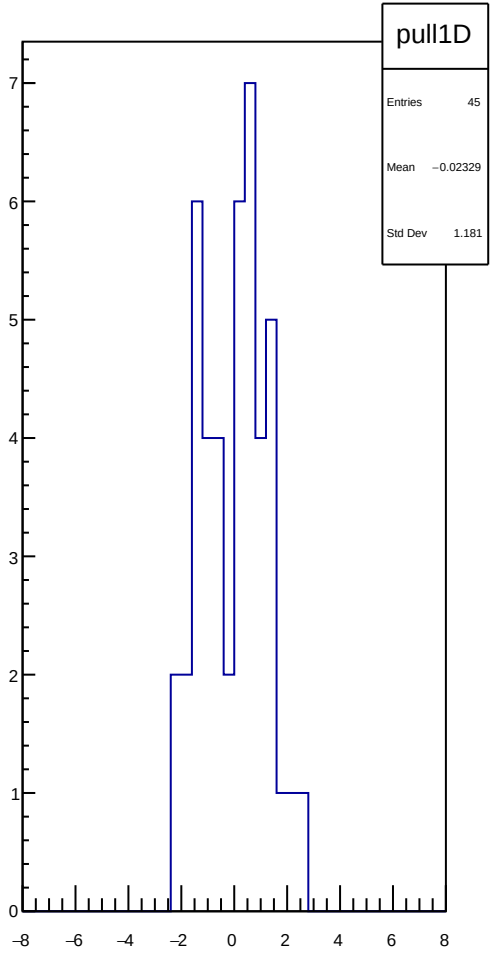
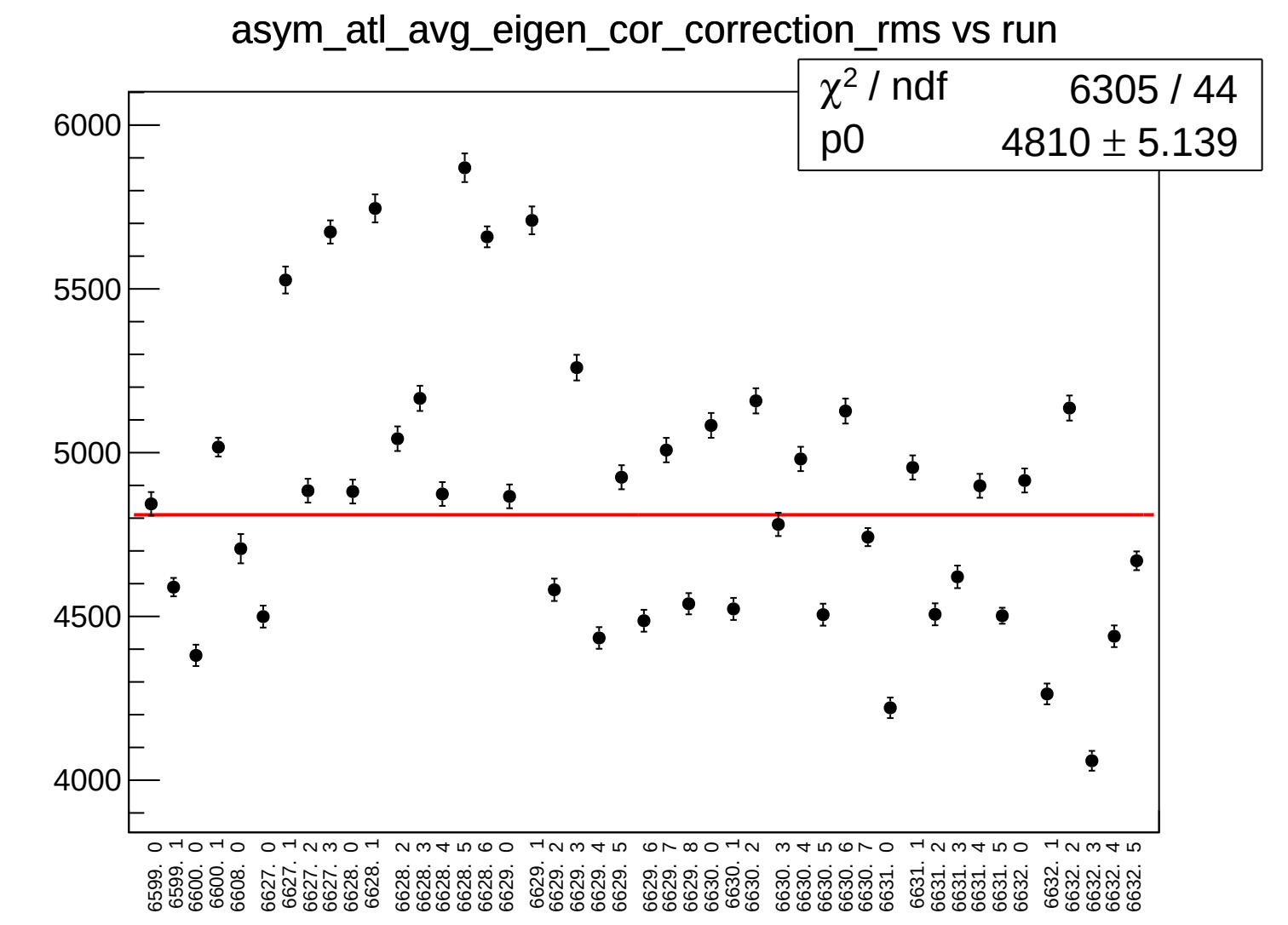
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −1048
Std Dev 0
2
1
0
−1
−2
−3

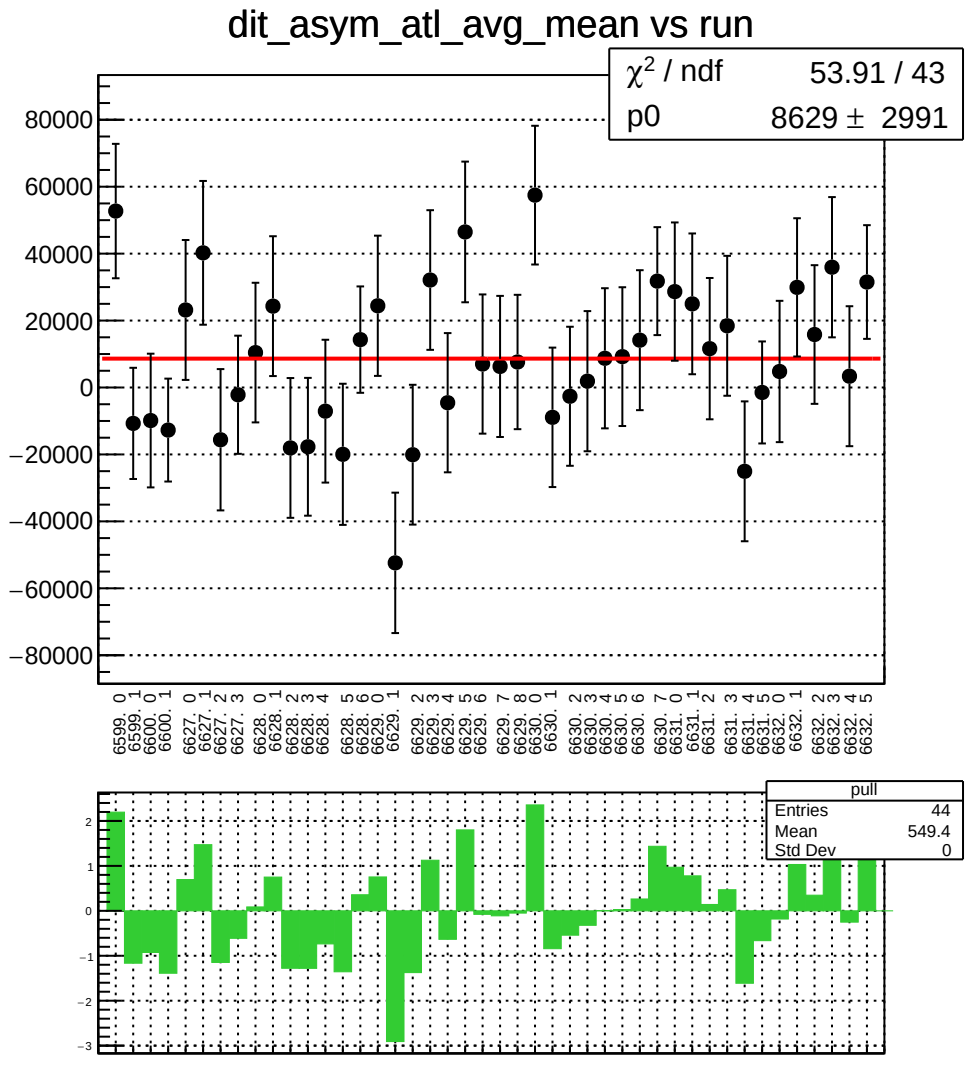

pull1D
Entries 45
Mean −0.003338
Std Dev 1.066
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

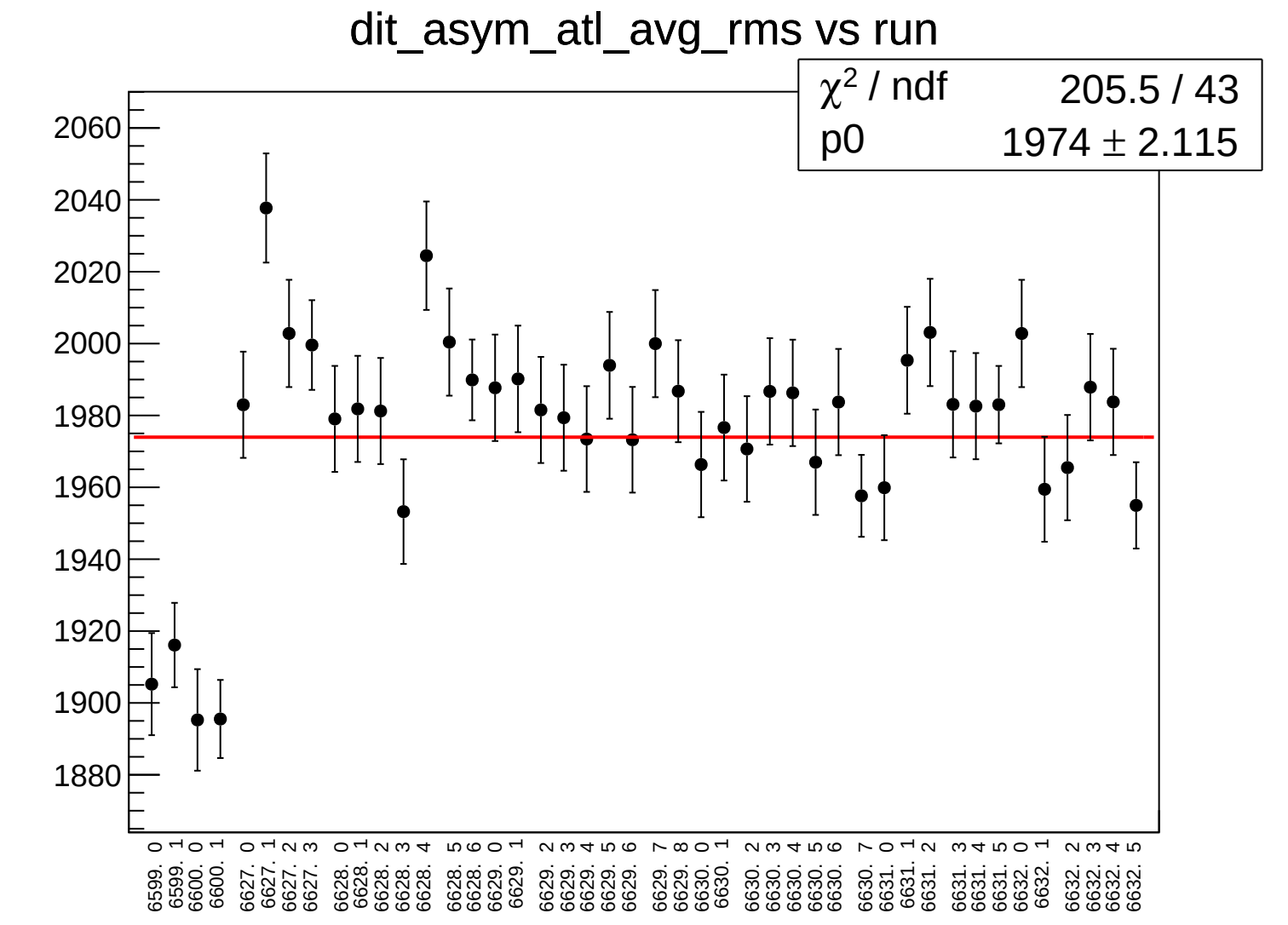

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 186.3 / 44
p0 1907 ± 2.03
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

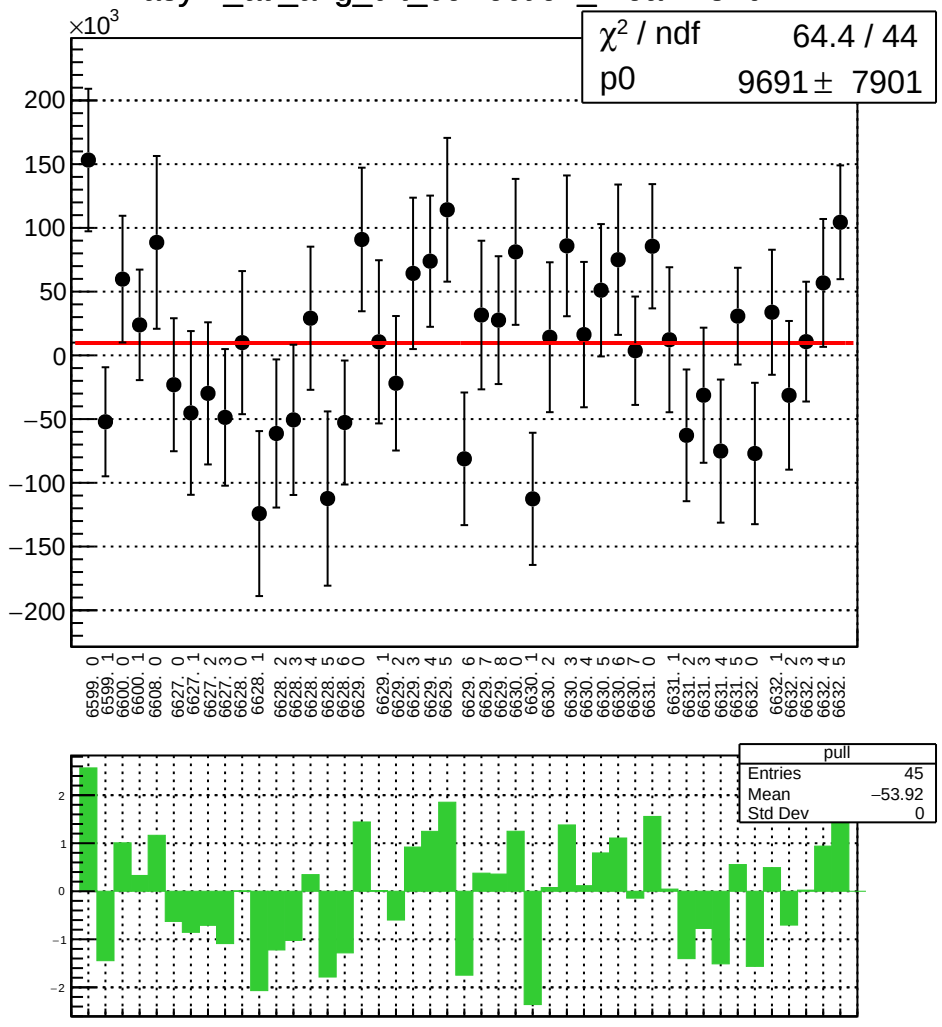

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 62.74 / 44
p0 7972 ± 7267
200
150
100
50
0
−50
−100
−150
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −48.35
Std Dev 0
2
1
0
−1
−2

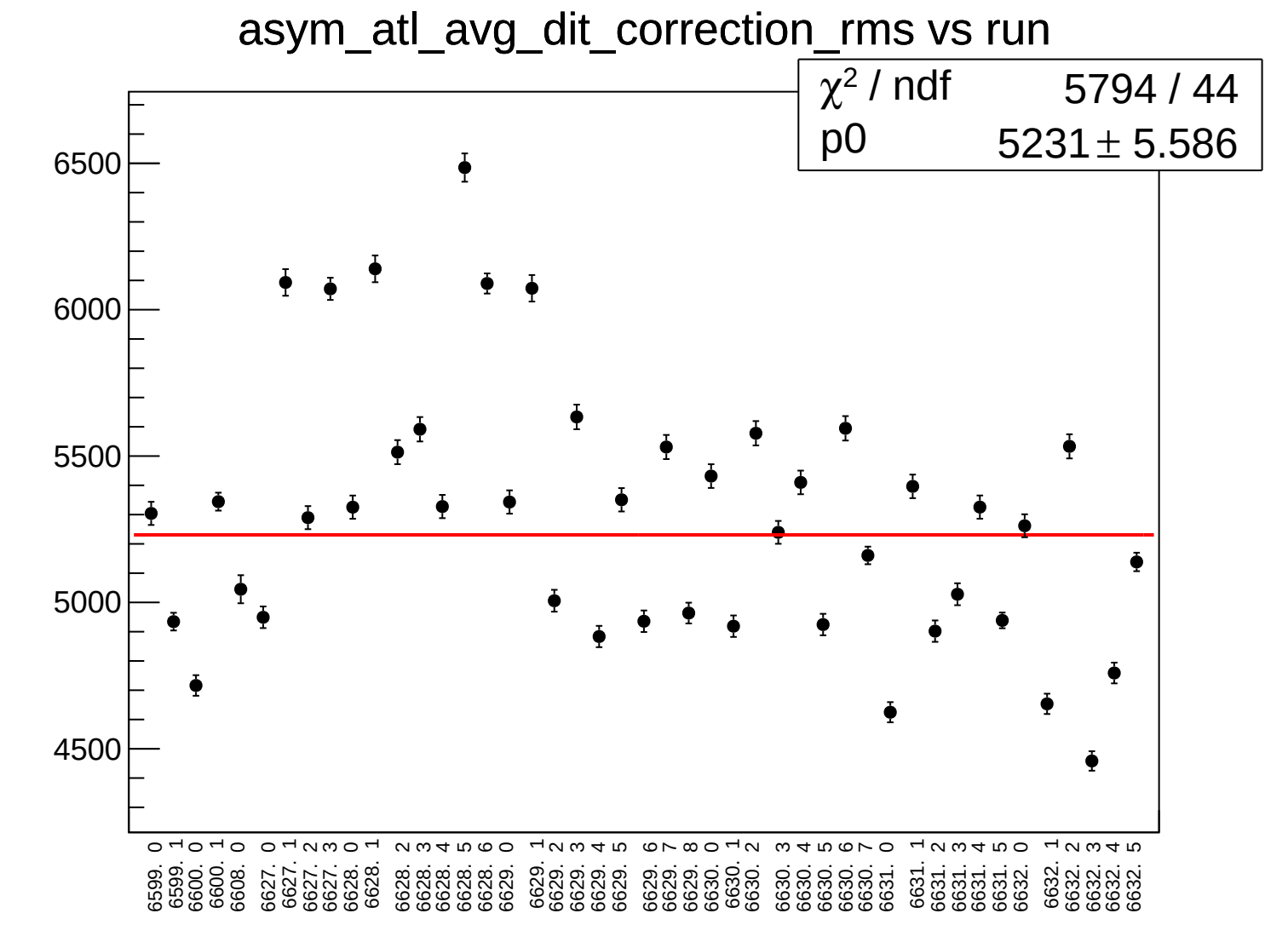

pull1D
Entries 45
Mean −0.02329
Std Dev 1.181
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

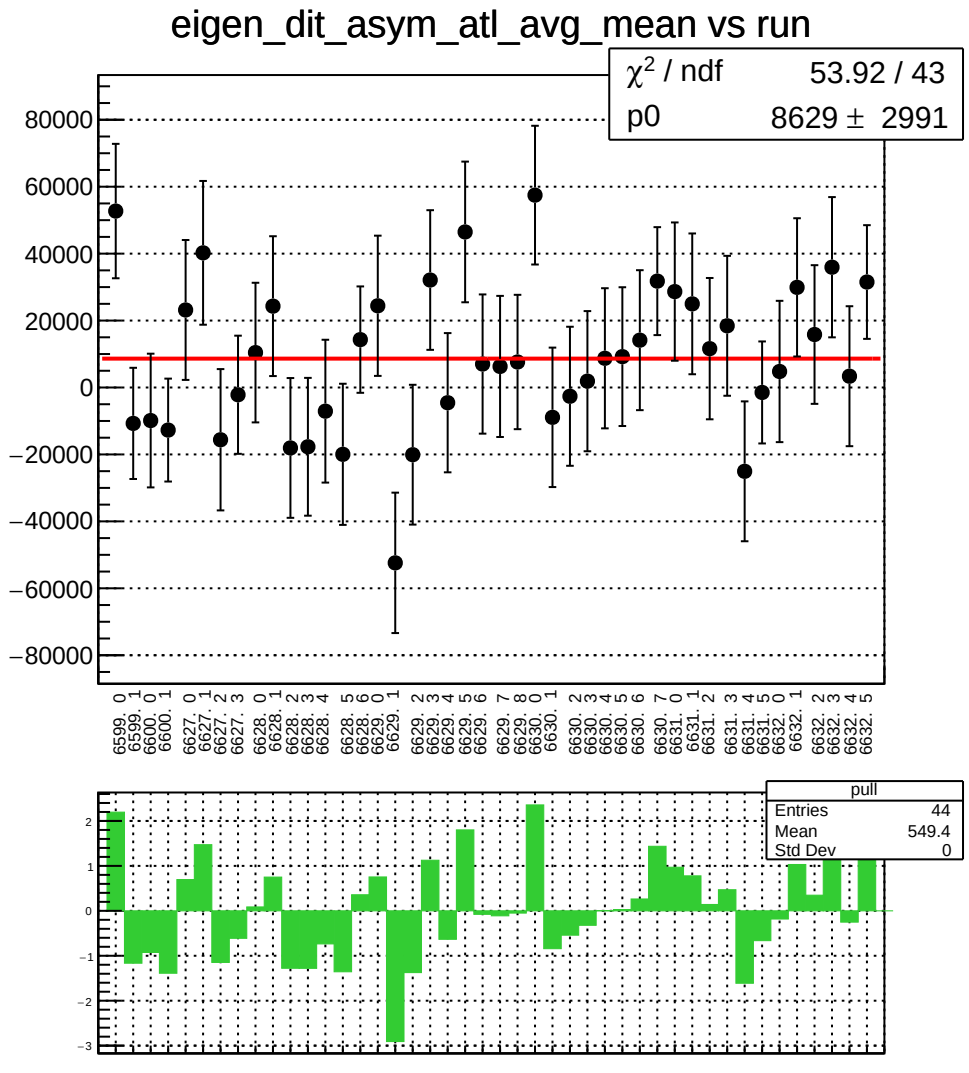

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 6305 / 44
p0 4810 ± 5.139
6000
5500
5000
4500
4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

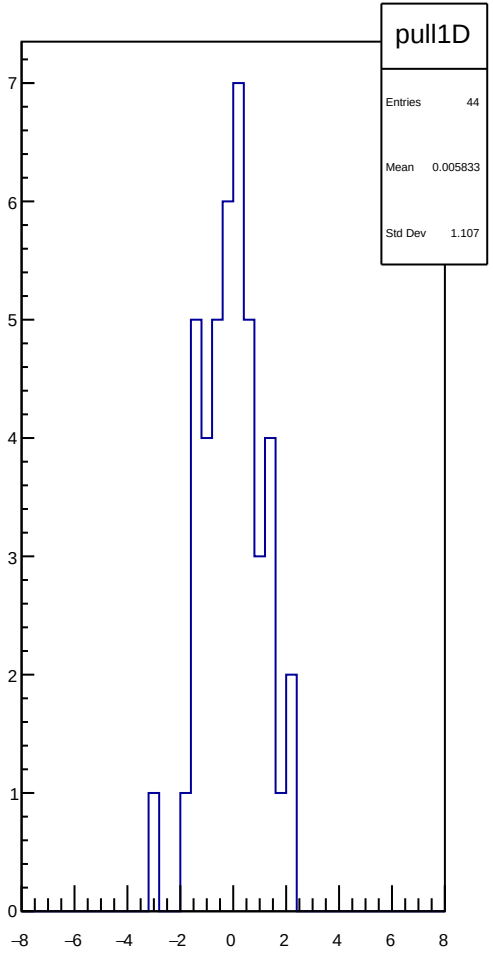

dit_asym_atl_avg_mean vs run
χ² / ndf 53.91 / 43
p0 8629 ± 2991
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 44
Mean 549.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 44
Mean 0.005833
Std Dev 1.107
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

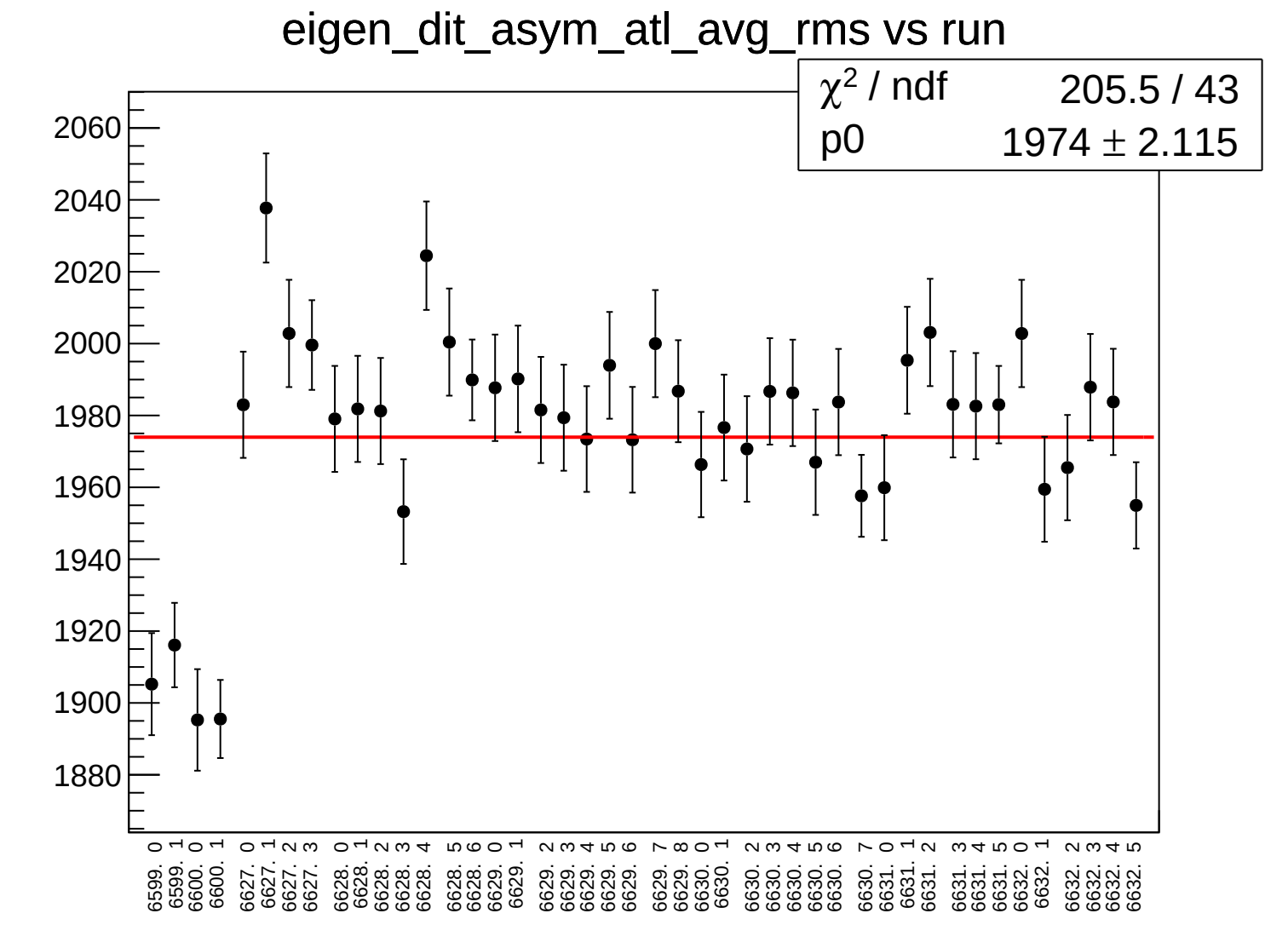

dit_asym_atl_avg_rms vs run
χ² / ndf 205.5 / 43
p0 1974 ± 2.115
2060
2040
2020
2000
1980
1960
1940
1920
1900
1880
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

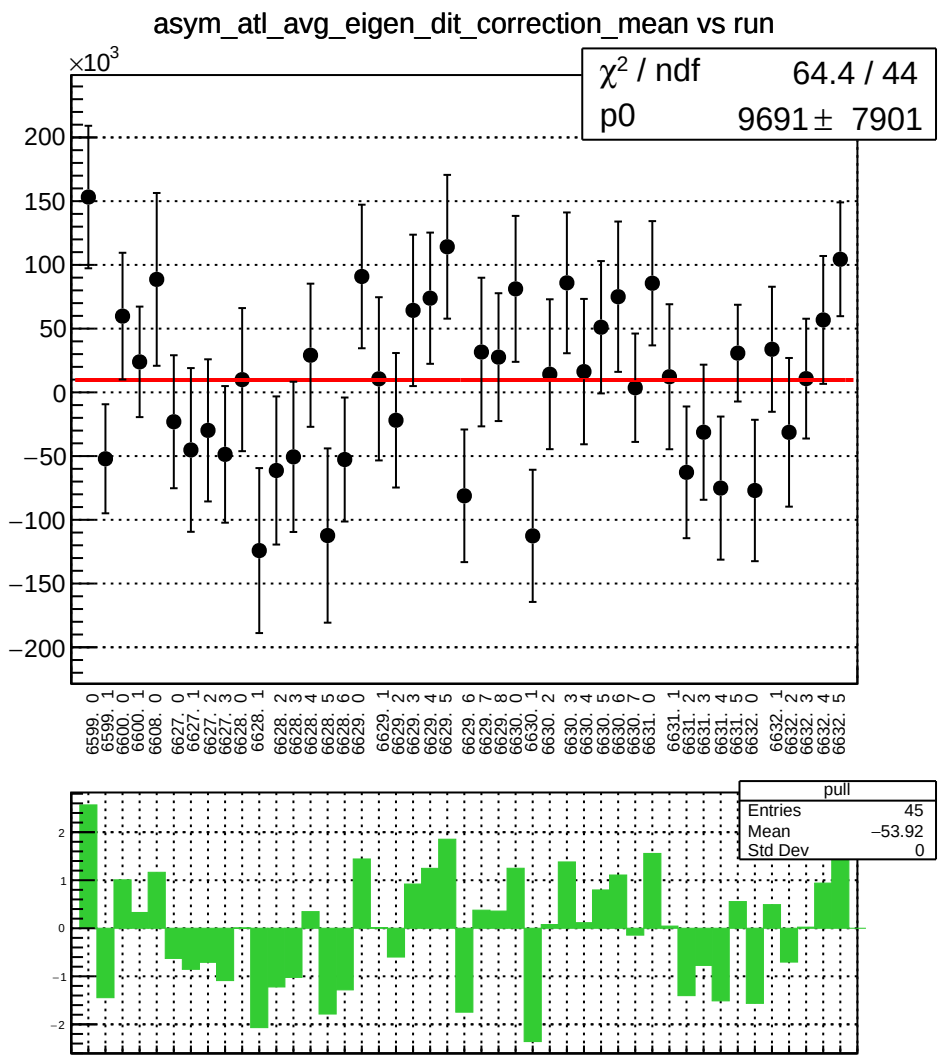

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 64.4 / 44
p0 9691 ± 7901
200
150
100
50
0
−50
−100
−150
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −53.92
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.0181
Std Dev 1.196
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

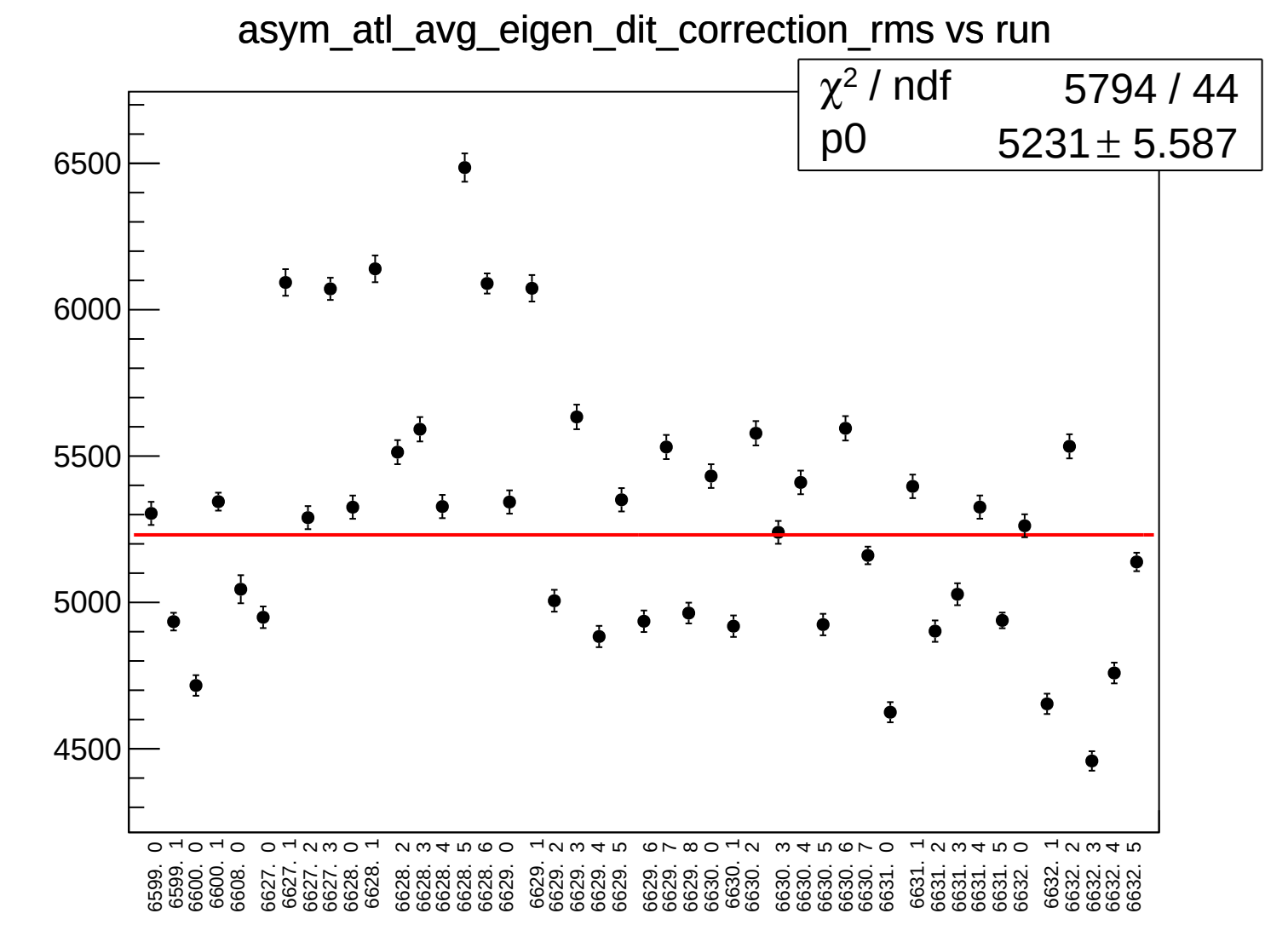

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 5794 / 44
p0 5231 ± 5.586
6500
6000
5500
5000
4500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

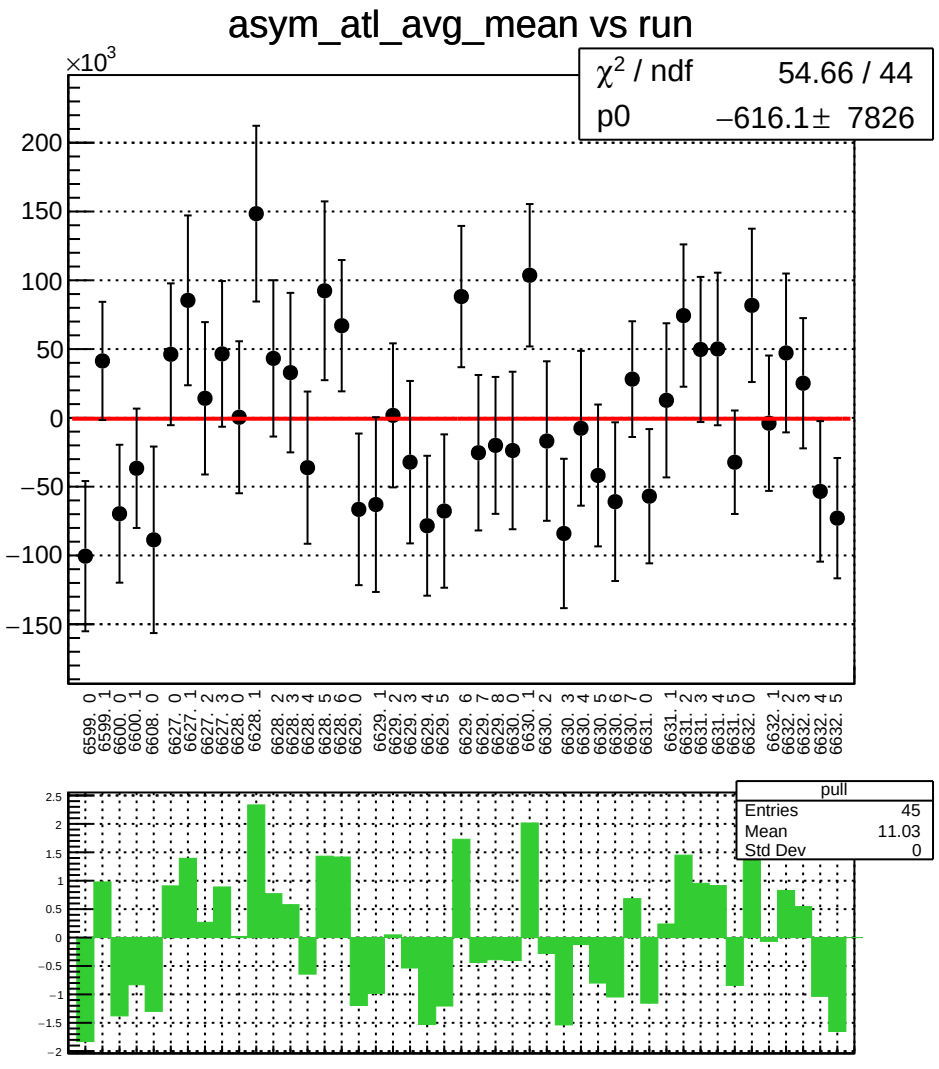

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 53.92 / 43
p0 8629 ± 2991
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 44
Mean 549.4
Std Dev 0
2
1
0
−1
−2
−3

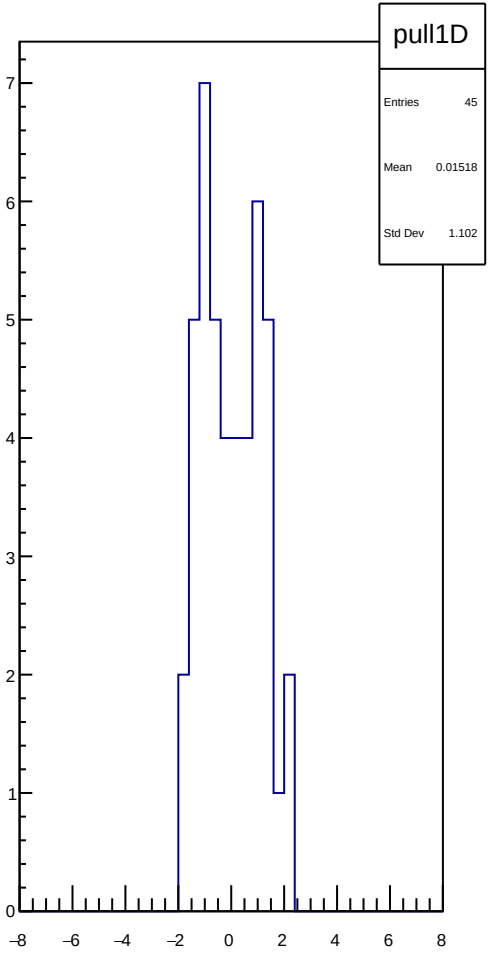

pull1D
Entries 44
Mean 0.005833
Std Dev 1.107
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

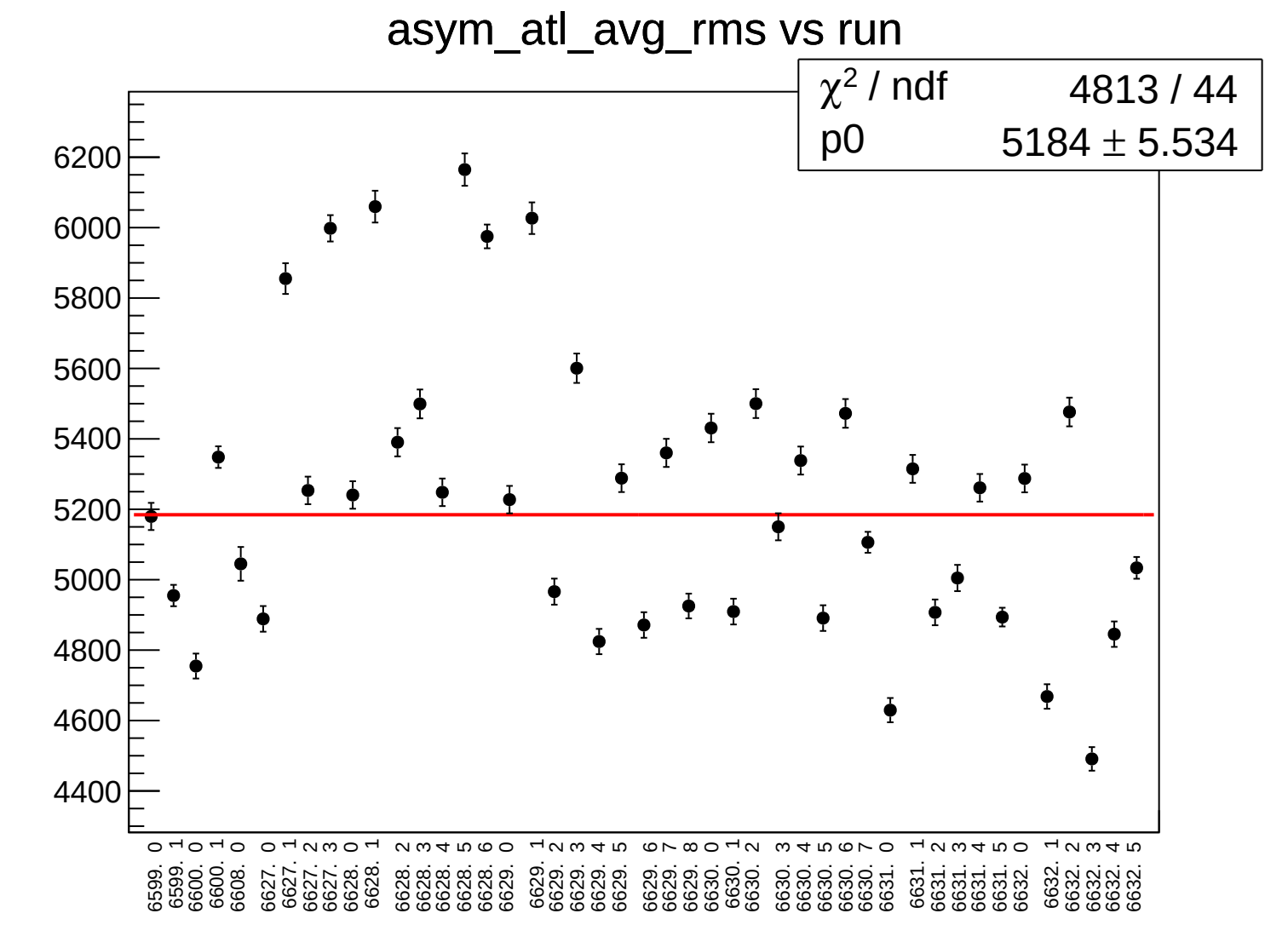

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 205.5 / 43
p0 1974 ± 2.115
2060
2040
2020
2000
1980
1960
1940
1920
1900
1880
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

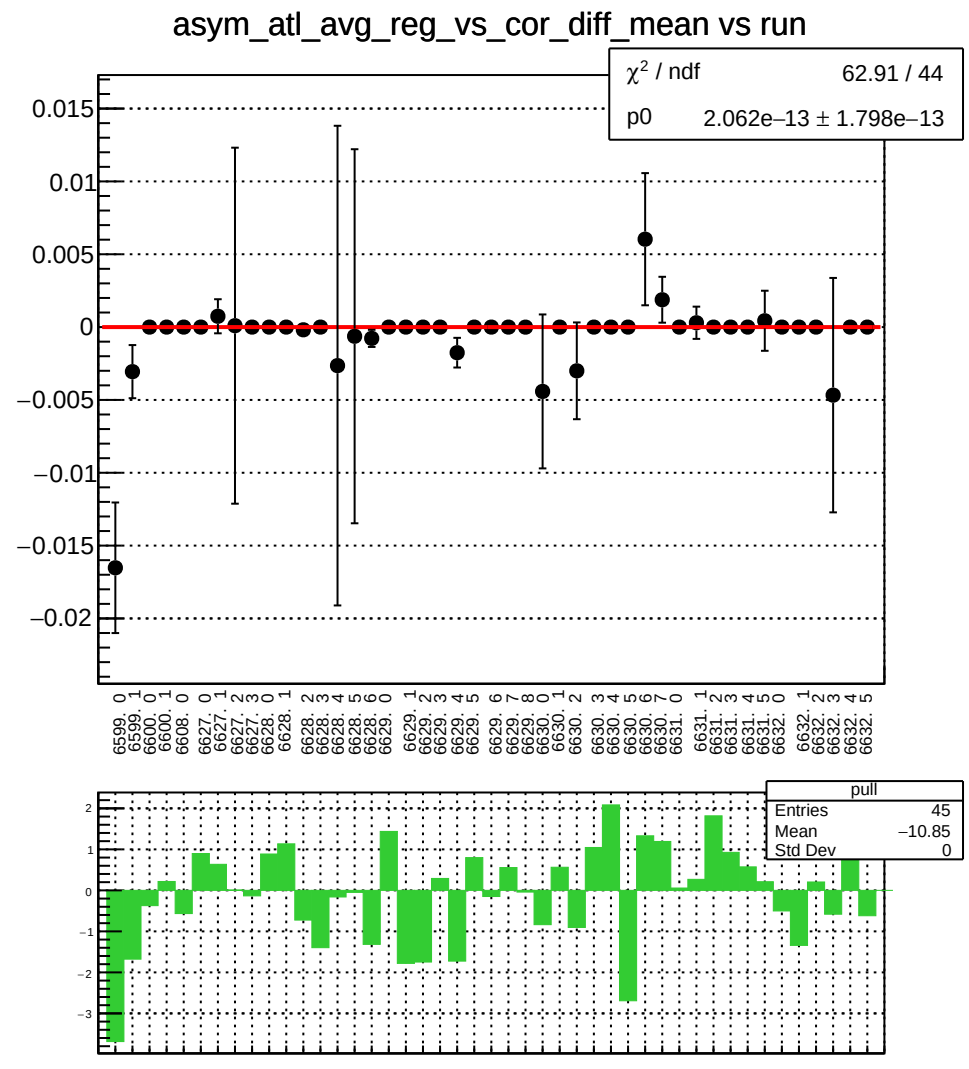

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 64.4 / 44
p0 9691 ± 7901
200
150
100
50
0
−50
−100
−150
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −53.92
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.0181
Std Dev 1.196
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

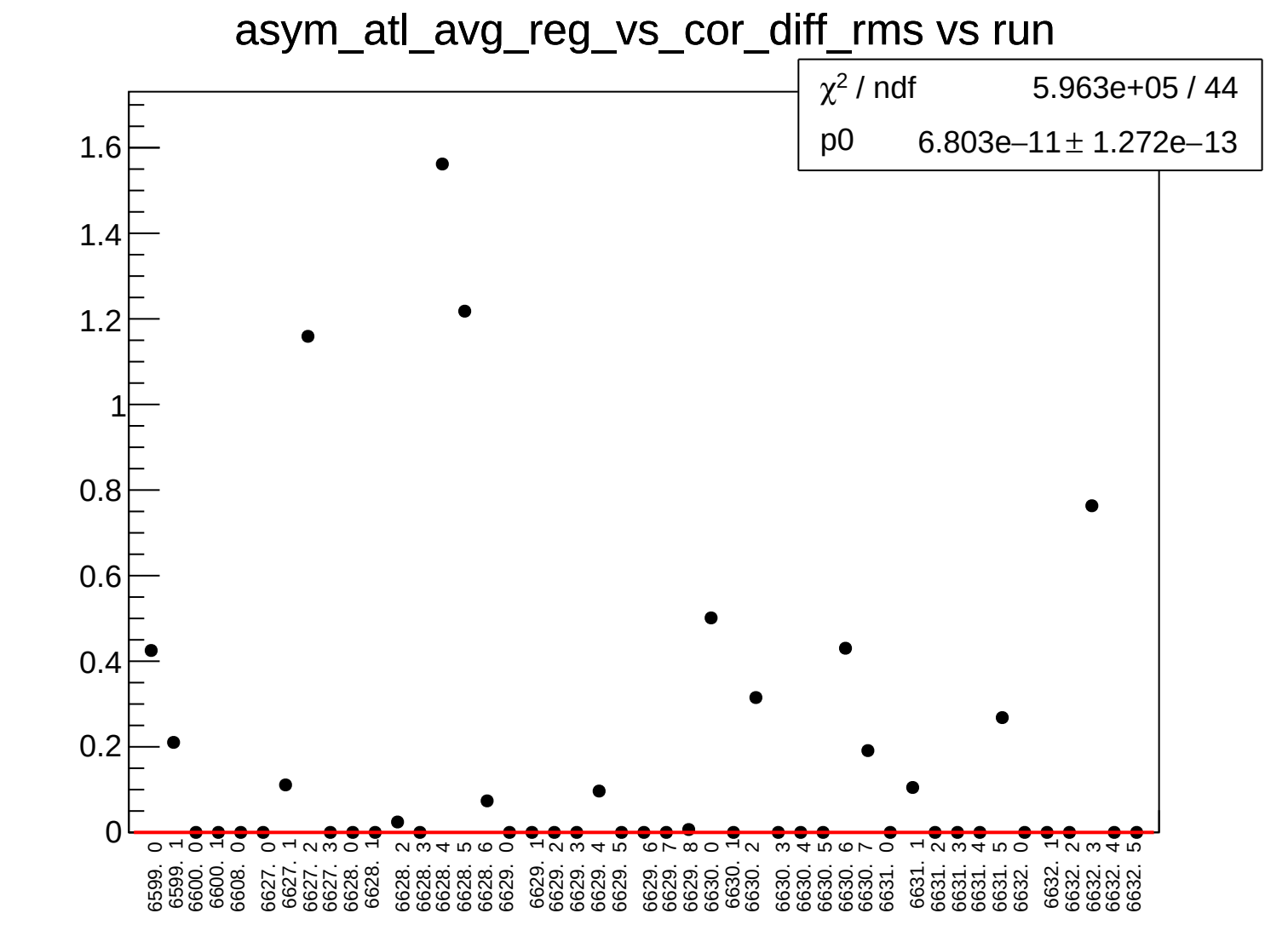

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 5794 / 44
p0 5231 ± 5.587
6500
6000
5500
5000
4500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

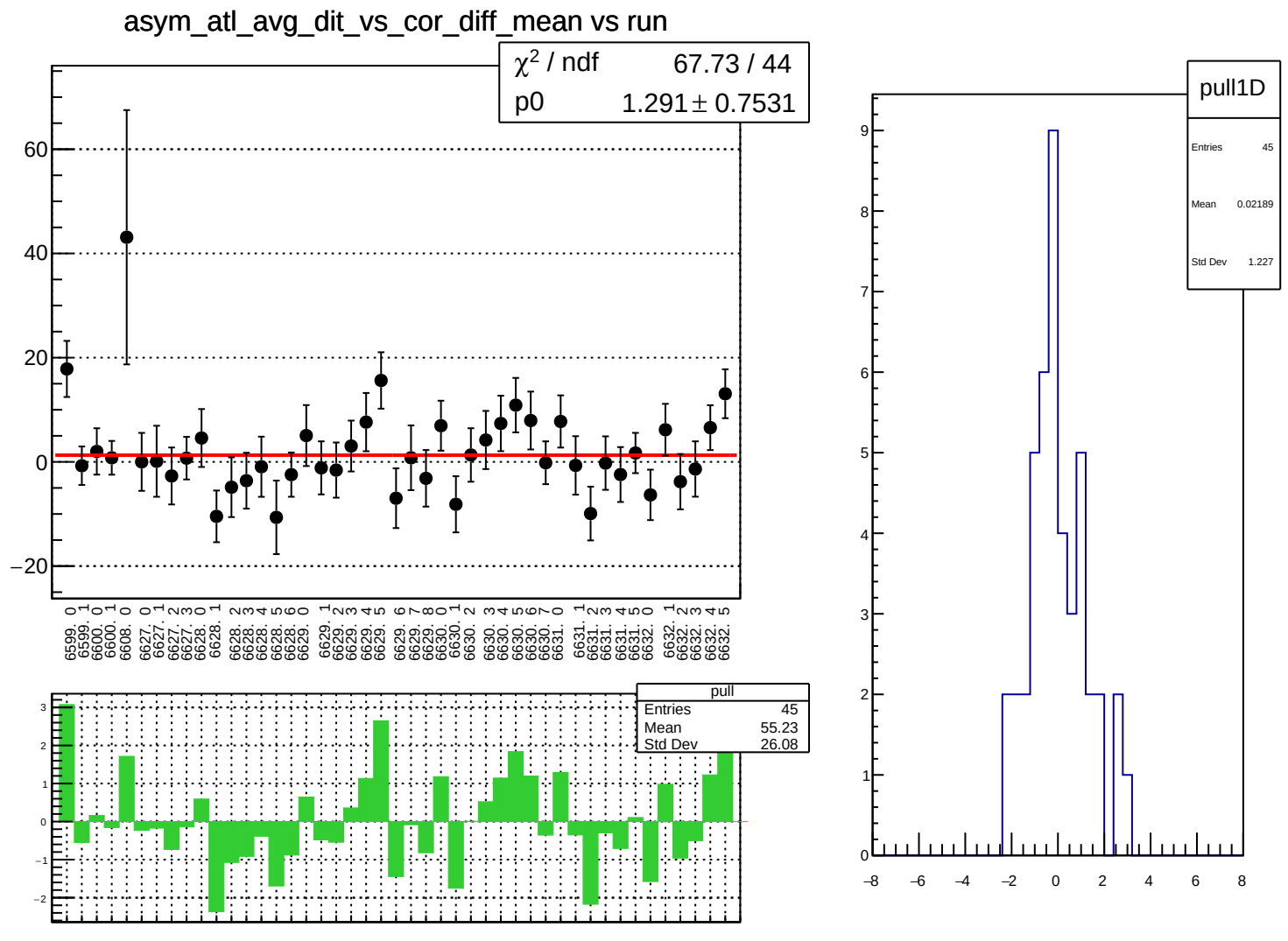

asym_atl_avg_mean vs run
×10^3
χ² / ndf 54.66 / 44
p0 −616.1± 7826
200
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 11.03
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

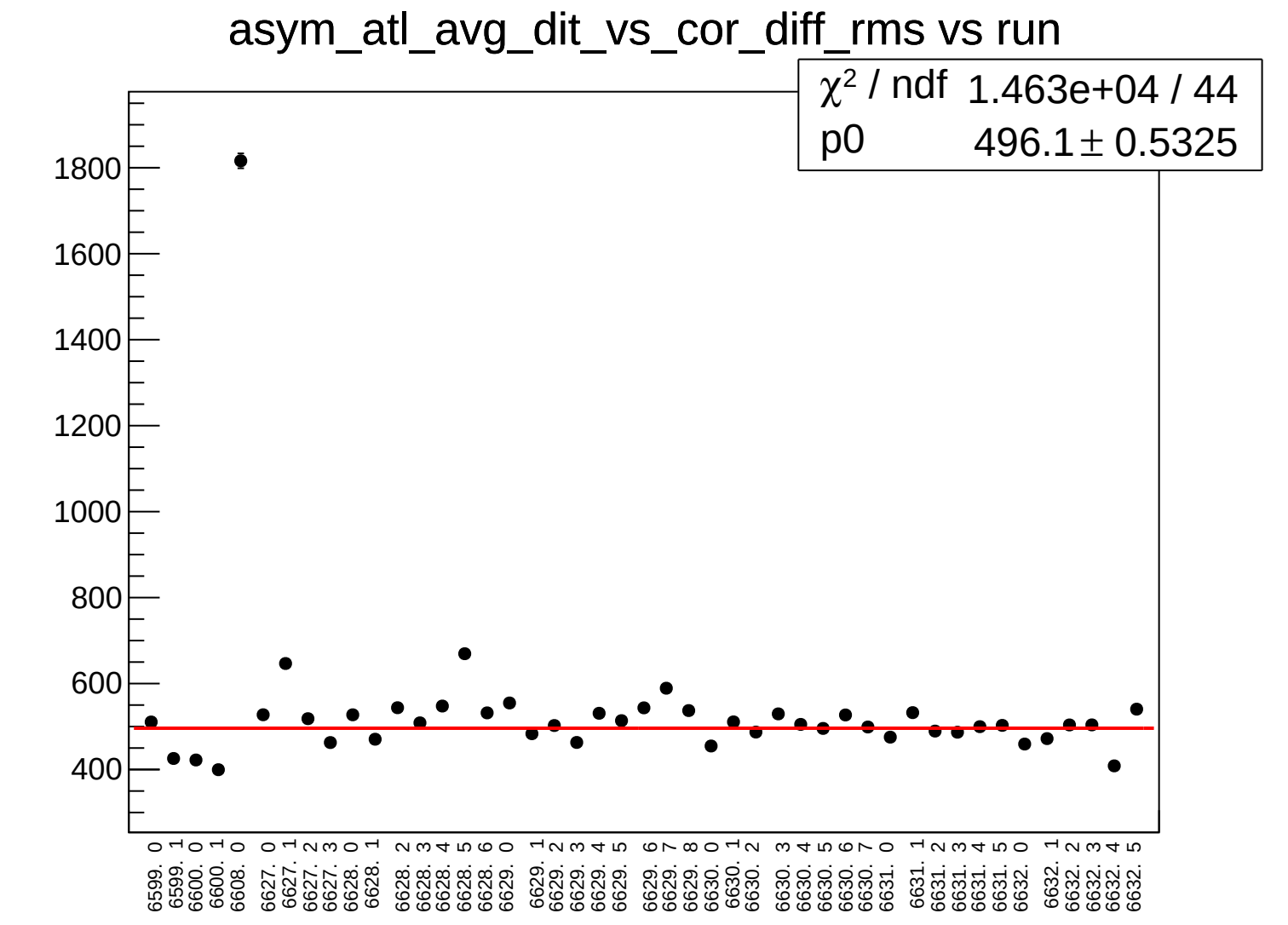

pull1D
Entries 45
Mean 0.01518
Std Dev 1.102
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

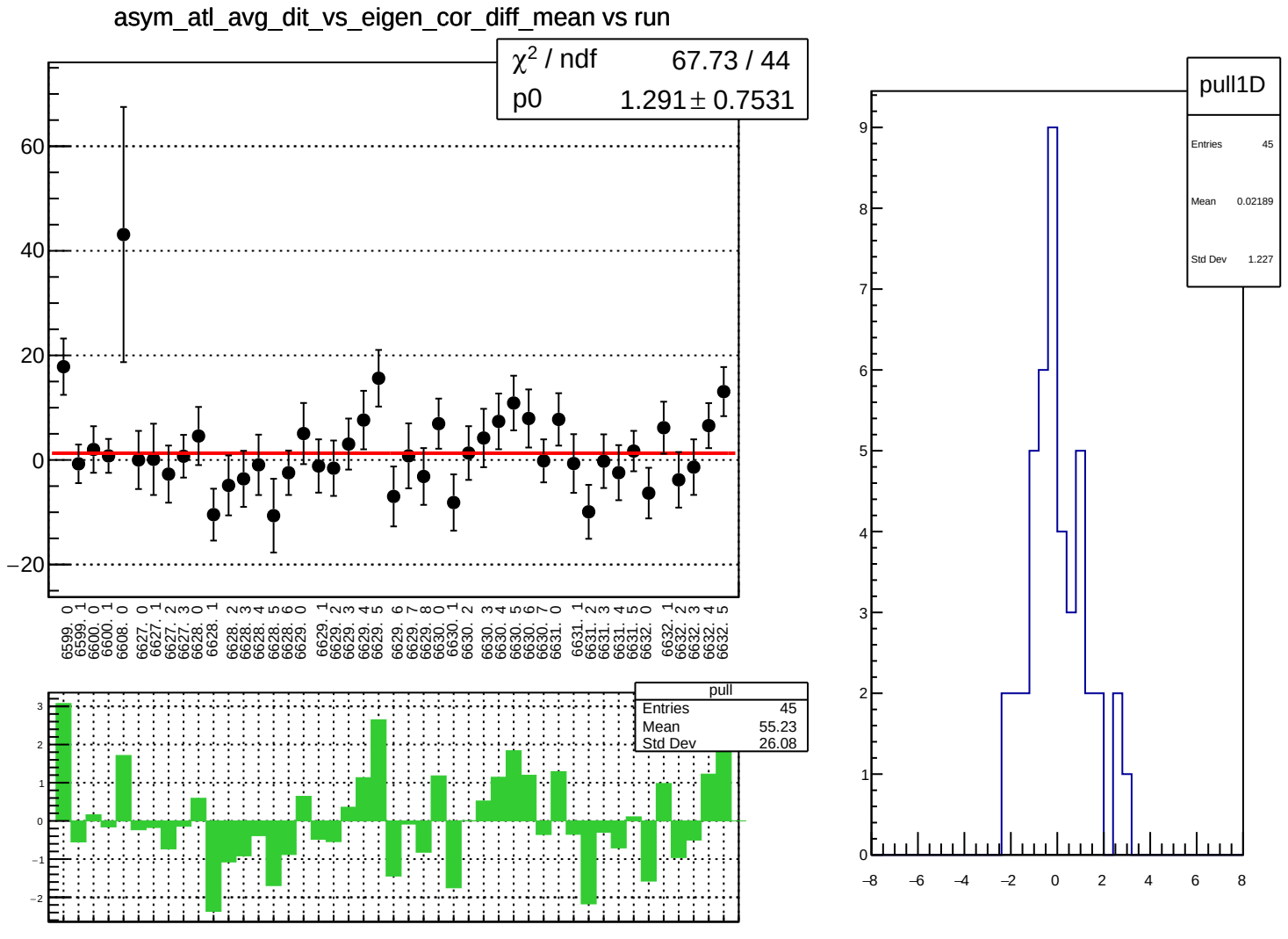

asym_atl_avg_rms vs run
χ² / ndf 4813 / 44
p0 5184 ± 5.534
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

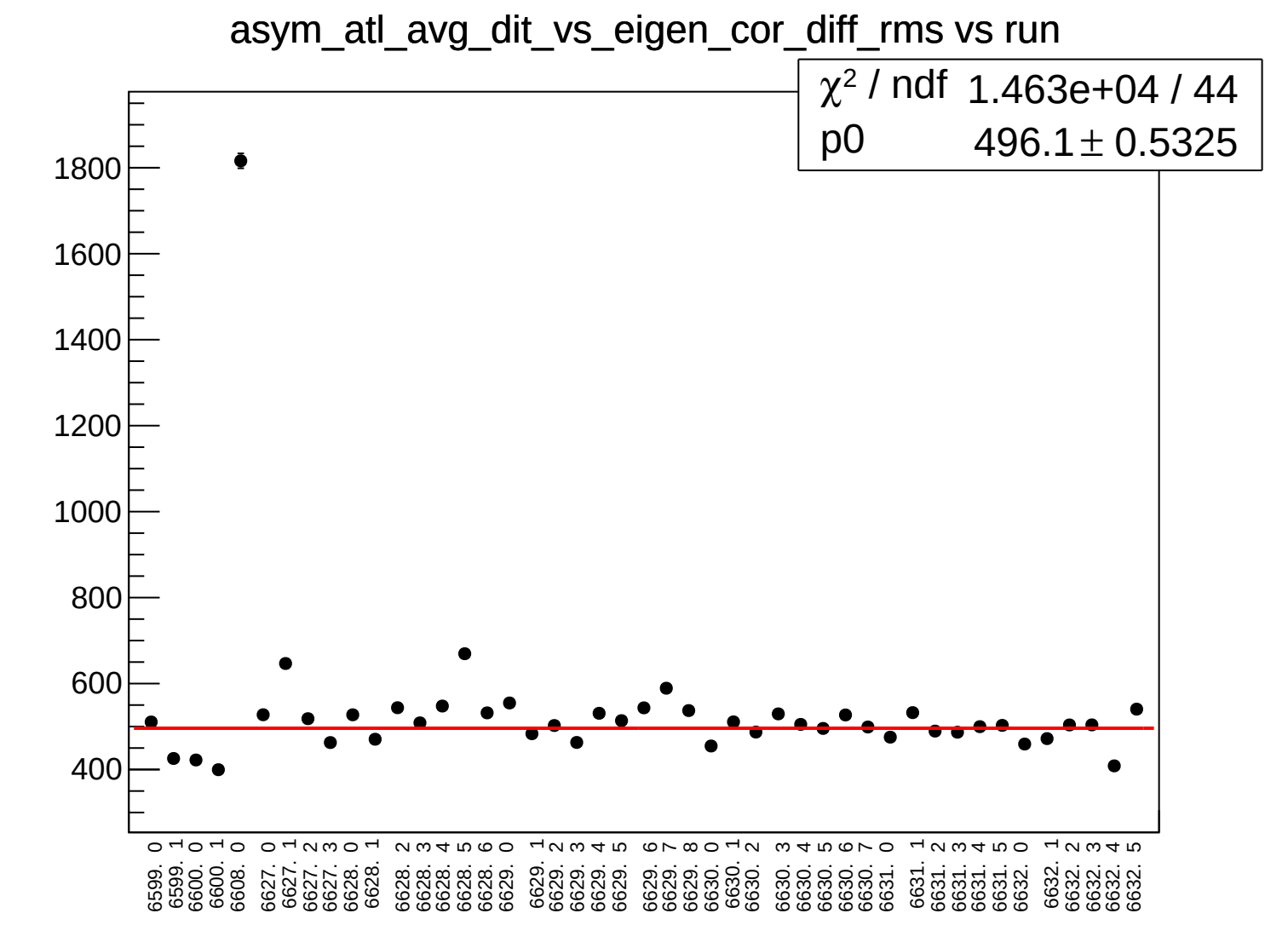

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 62.91 / 44
p0 2.062e−13 ± 1.798e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −10.85
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.1078
Std Dev 1.177
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

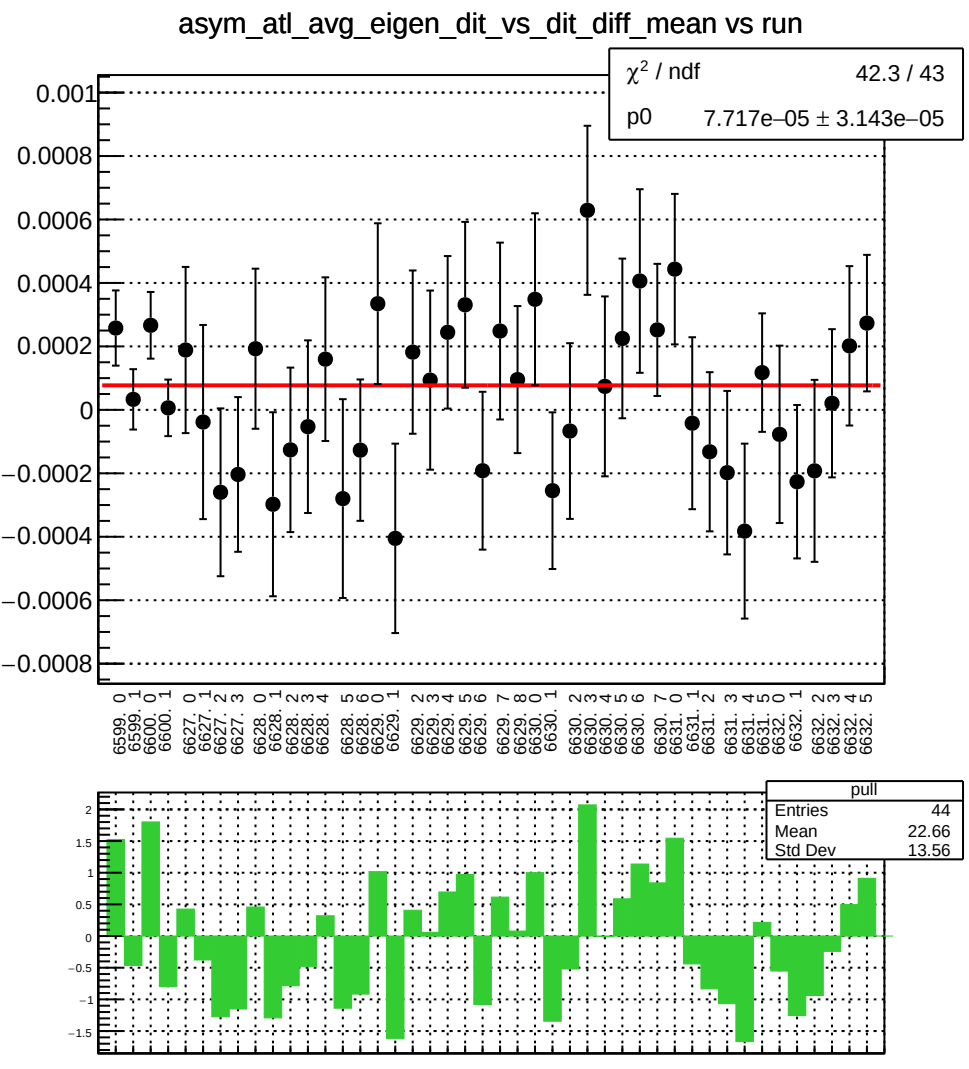

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.963e+05 / 44
p0 6.803e−11 ± 1.272e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

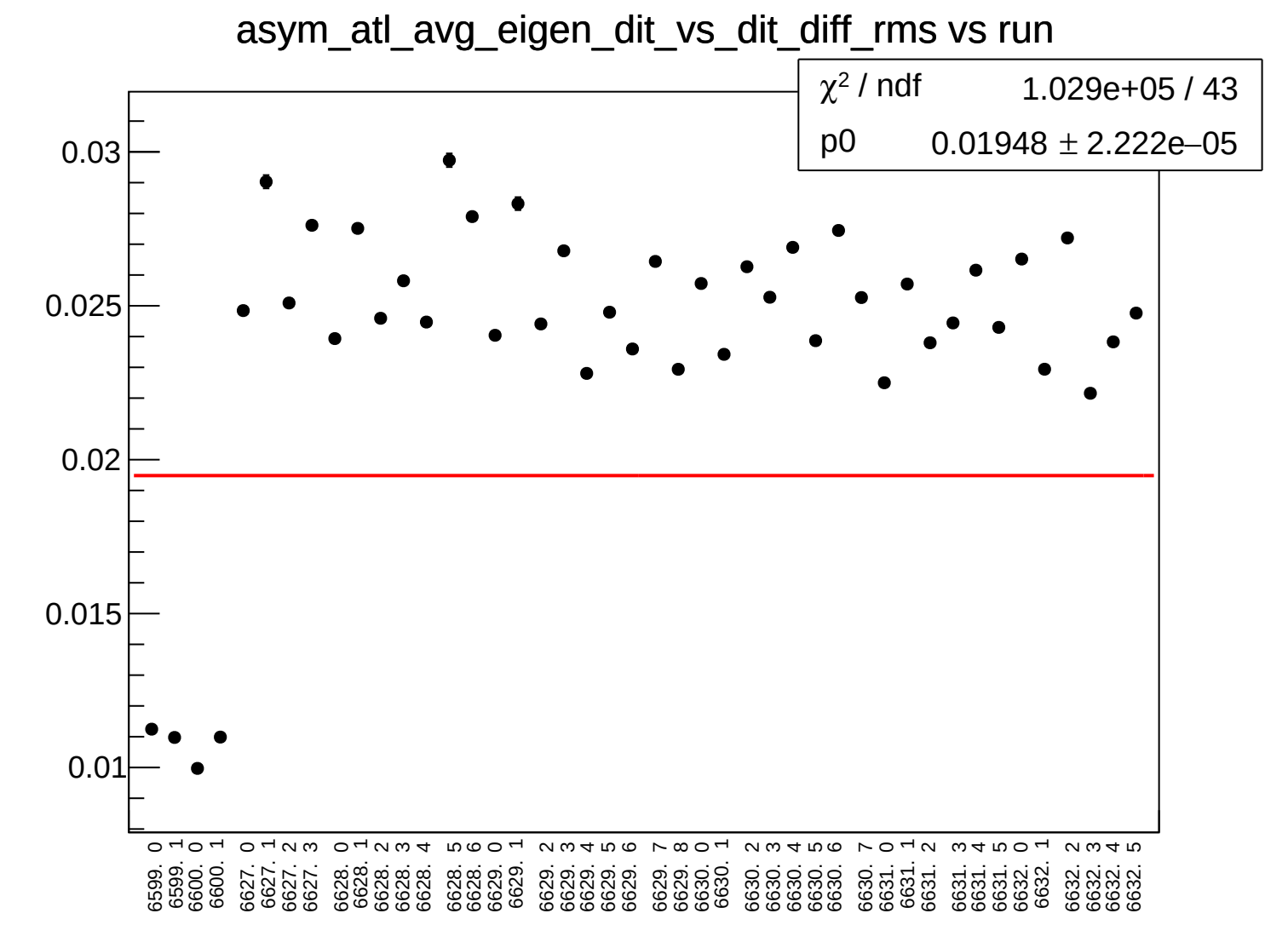

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 67.73 / 44
p0 1.291 ± 0.7531
60
40
20
0
−20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 55.23
Std Dev 26.08
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.02189
Std Dev 1.227
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

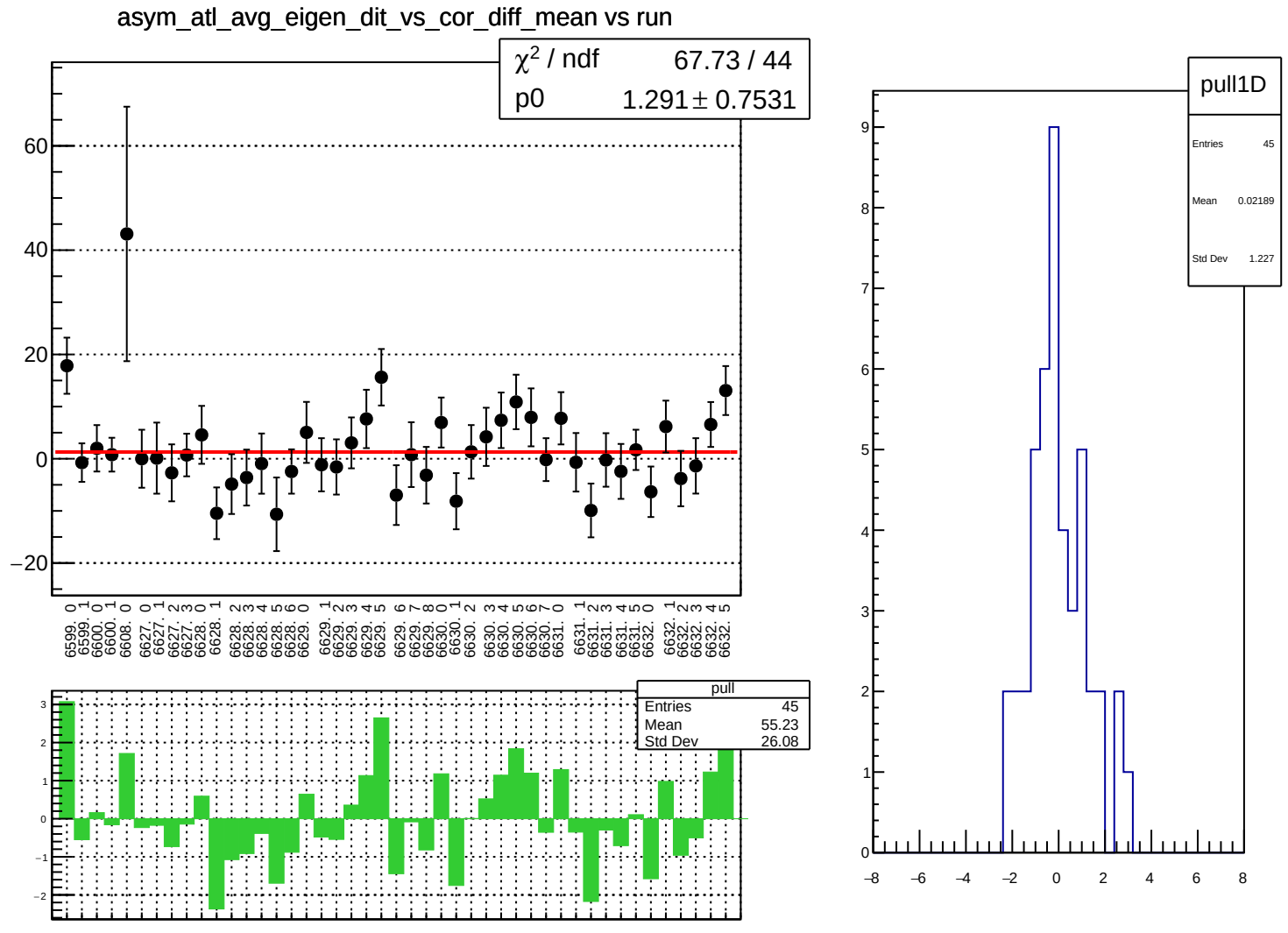

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.463e+04 / 44
p0 496.1 ± 0.5325
1800
1600
1400
1200
1000
800
600
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

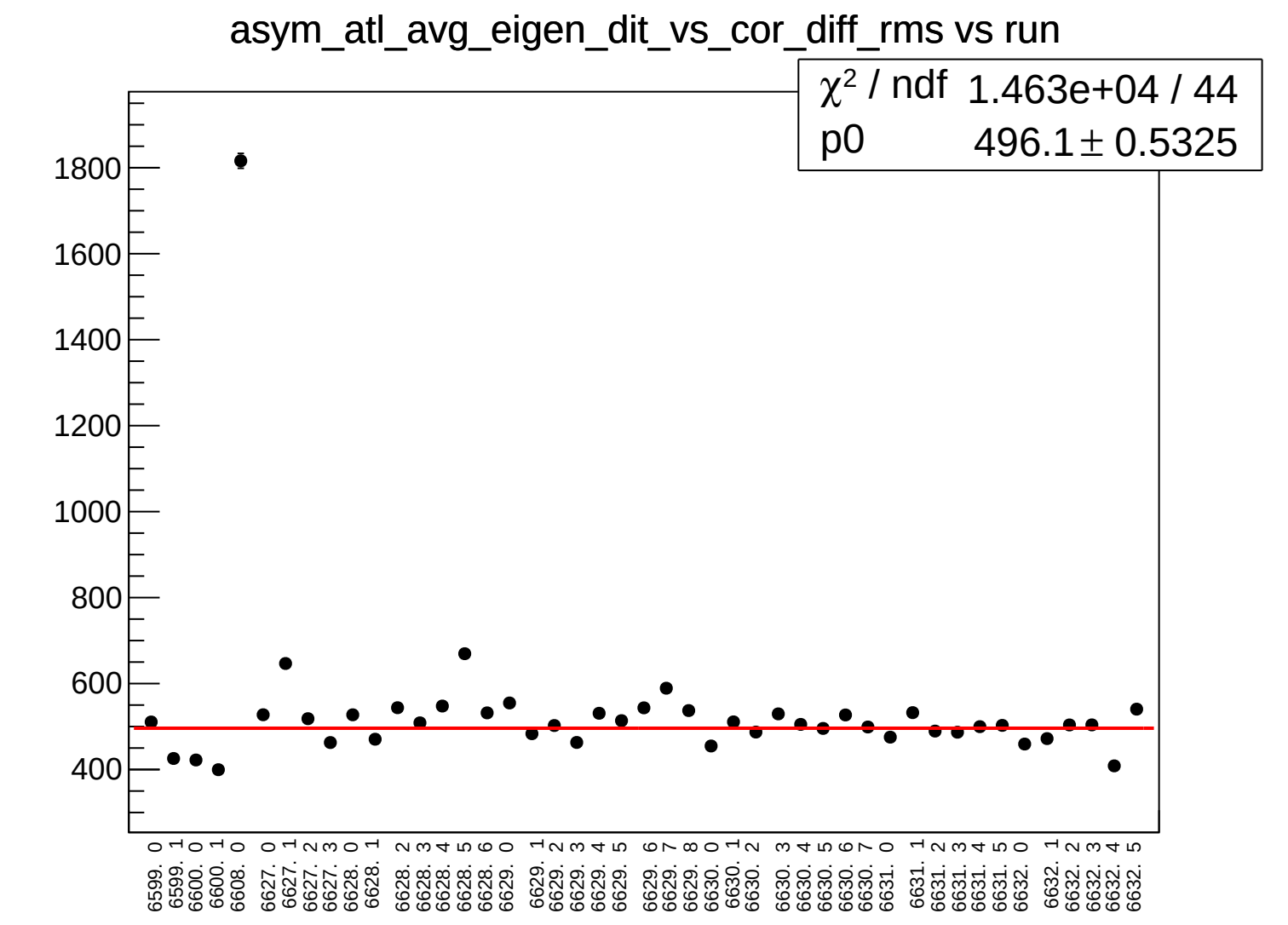

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.73 / 44
p0 1.291 ± 0.7531
pull
Entries 45
Mean 55.23
Std Dev 26.08
pull1D
Entries 45
Mean 0.02189
Std Dev 1.227

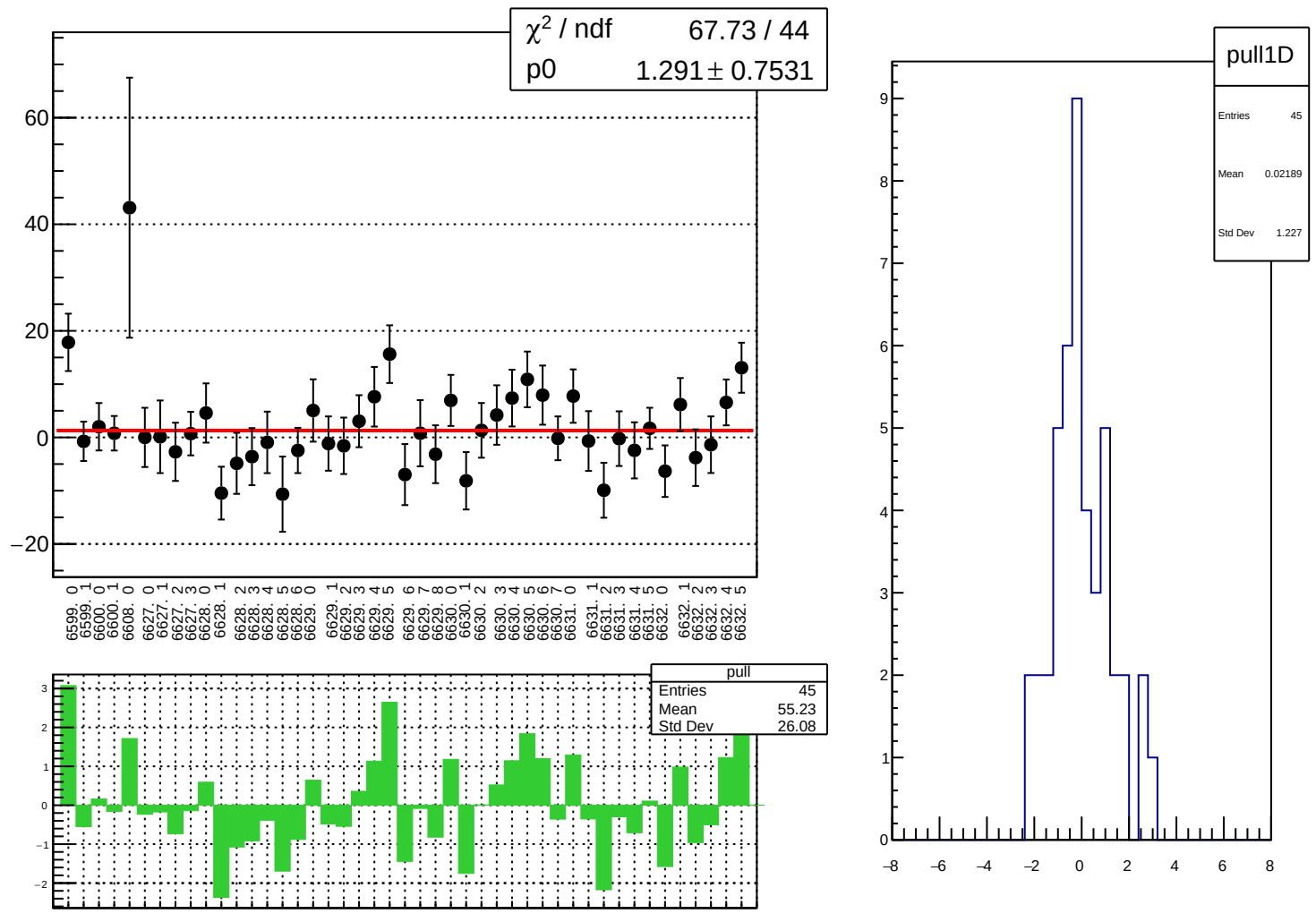

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.463e+04 / 44
p0 496.1 ± 0.5325
1800
1600
1400
1200
1000
800
600
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

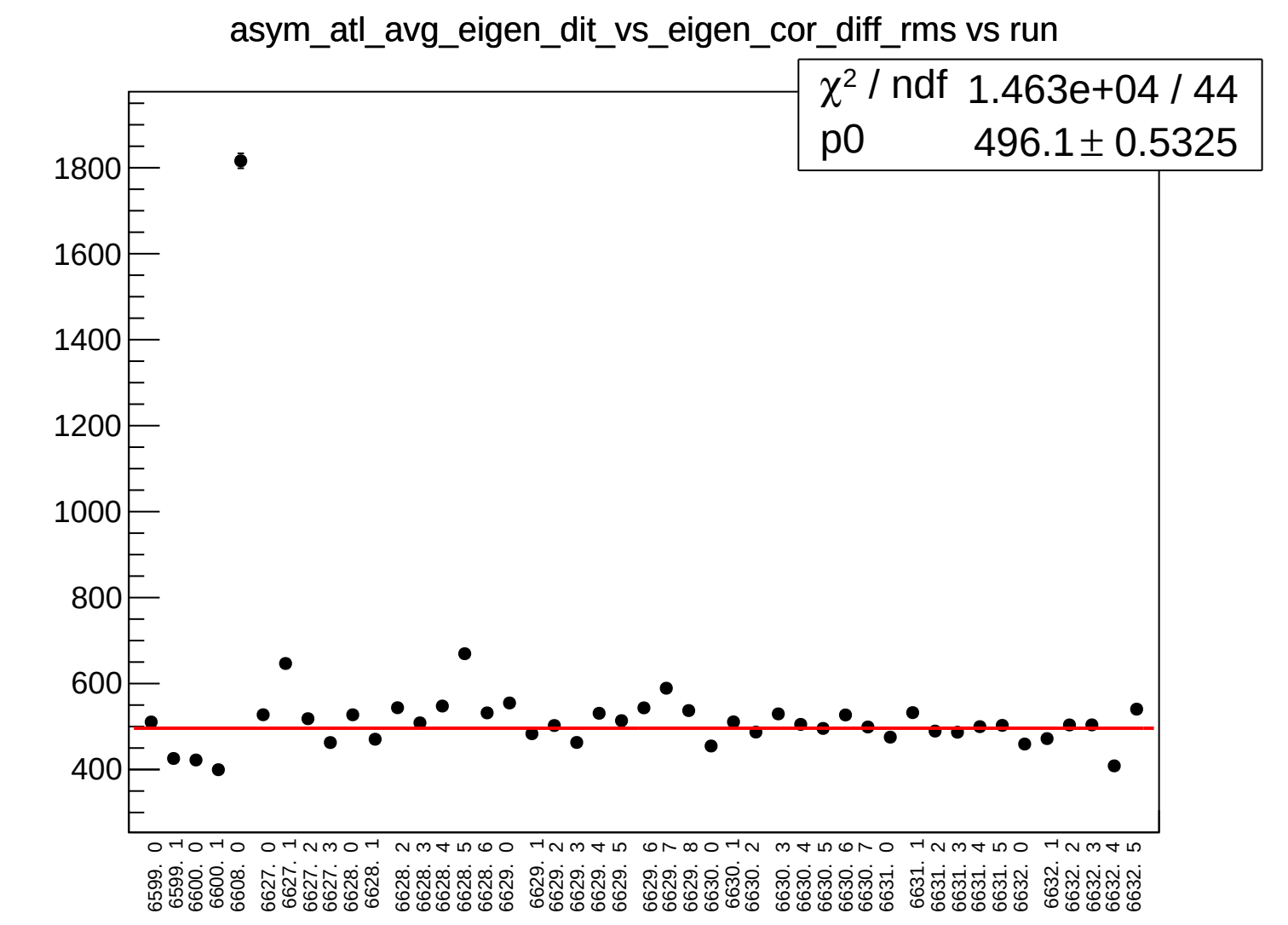

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 42.3 / 43
p0 7.717e−05 ± 3.143e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 44
Mean 22.66
Std Dev 13.56
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 44
Mean −0.06965
Std Dev 0.978
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

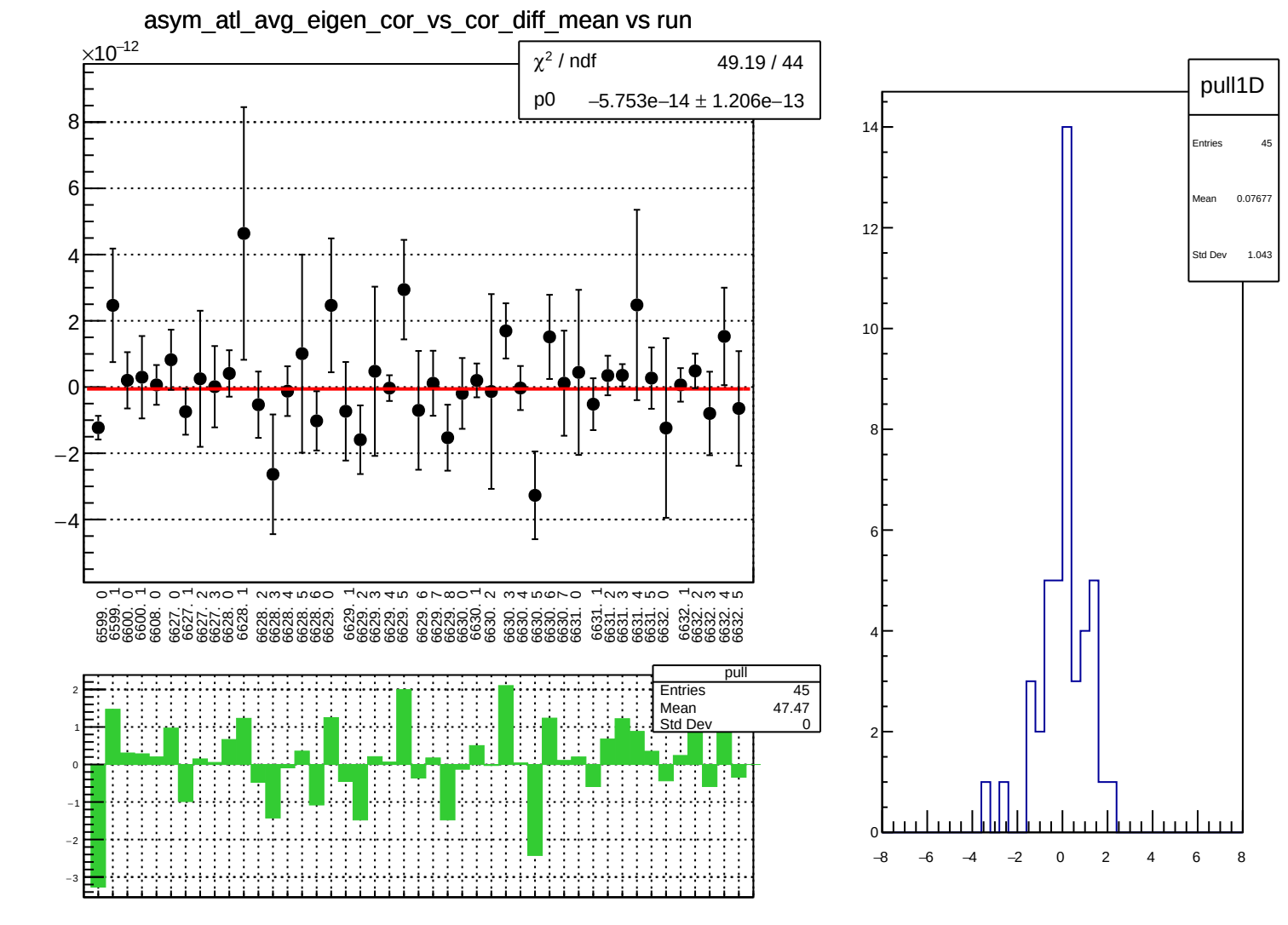

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.029e+05 / 43
p0 0.01948 ± 2.222e–05
0.03
0.025
0.02
0.015
0.01
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

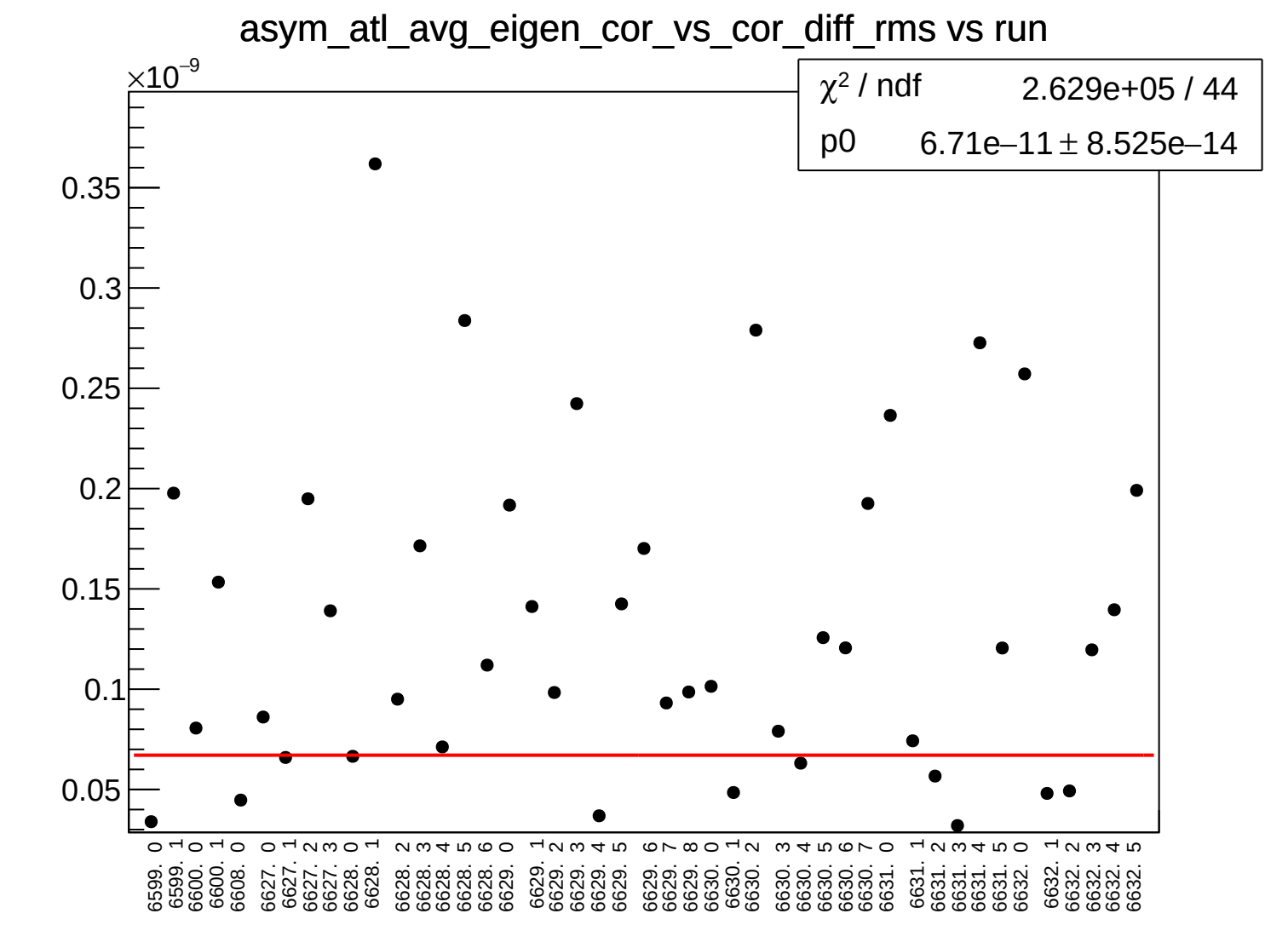

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.73 / 44
p0 1.291 ± 0.7531
60
40
20
0
−20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 55.23
Std Dev 26.08
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.02189
Std Dev 1.227
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

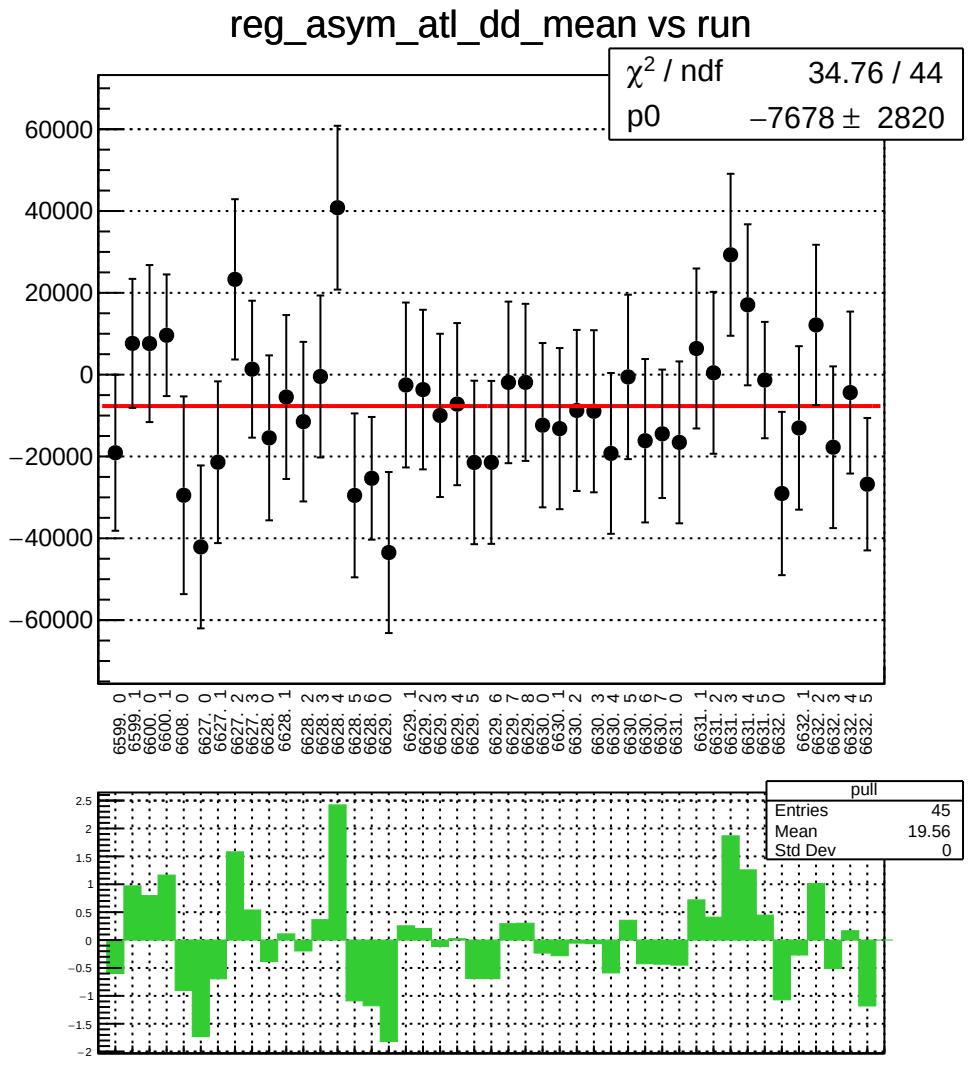

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.463e+04 / 44
p0 496.1 ± 0.5325
1800
1600
1400
1200
1000
800
600
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

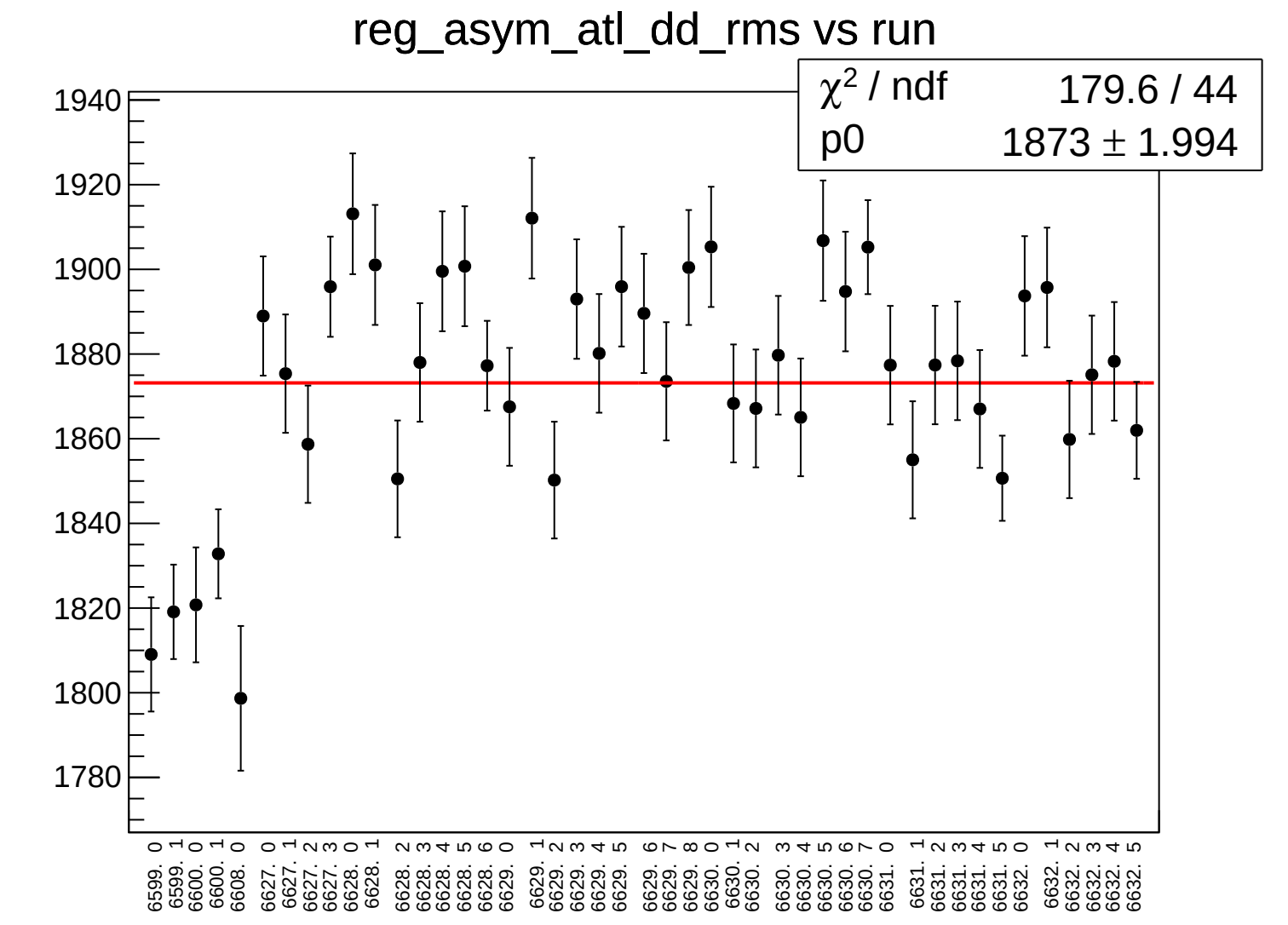

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.73 / 44
p0 1.291 ± 0.7531
60
40
20
0
−20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 55.23
Std Dev 26.08
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.02189
Std Dev 1.227
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

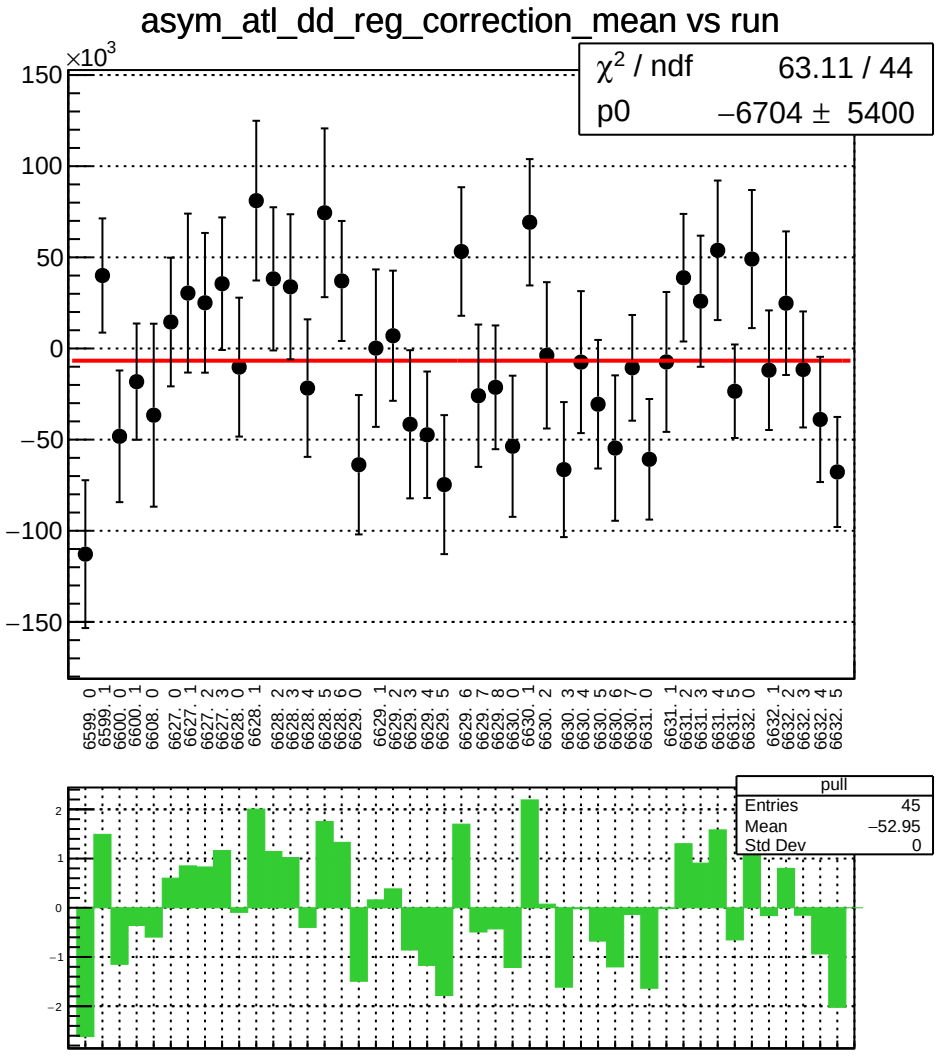

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.463e+04 / 44
p0 496.1 ± 0.5325
1800
1600
1400
1200
1000
800
600
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

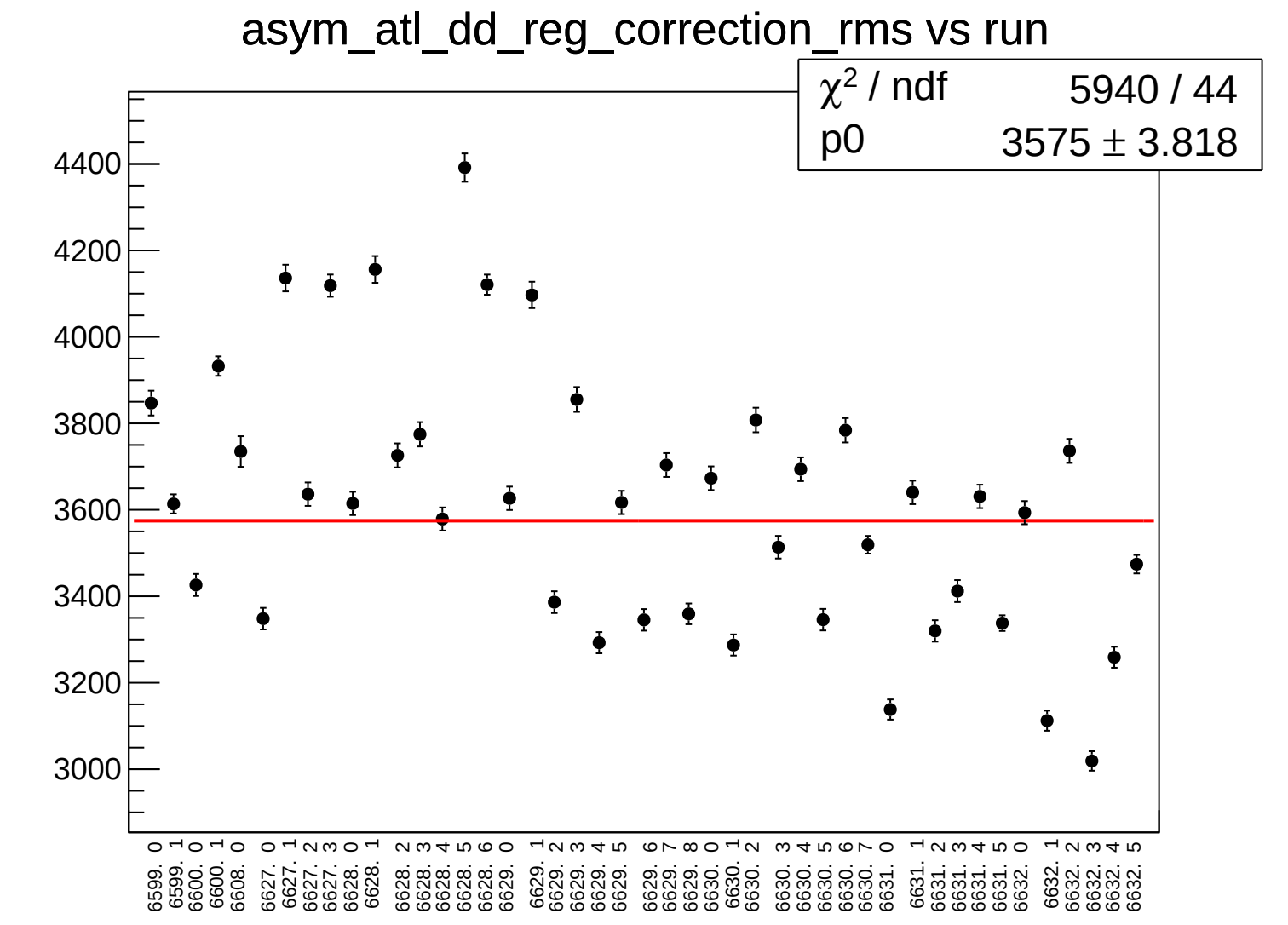

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 49.19 / 44
p0 −5.753e−14 ± 1.206e−13
pull
Entries 45
Mean 47.47
Std Dev 0
pull1D
Entries 45
Mean 0.07677
Std Dev 1.043

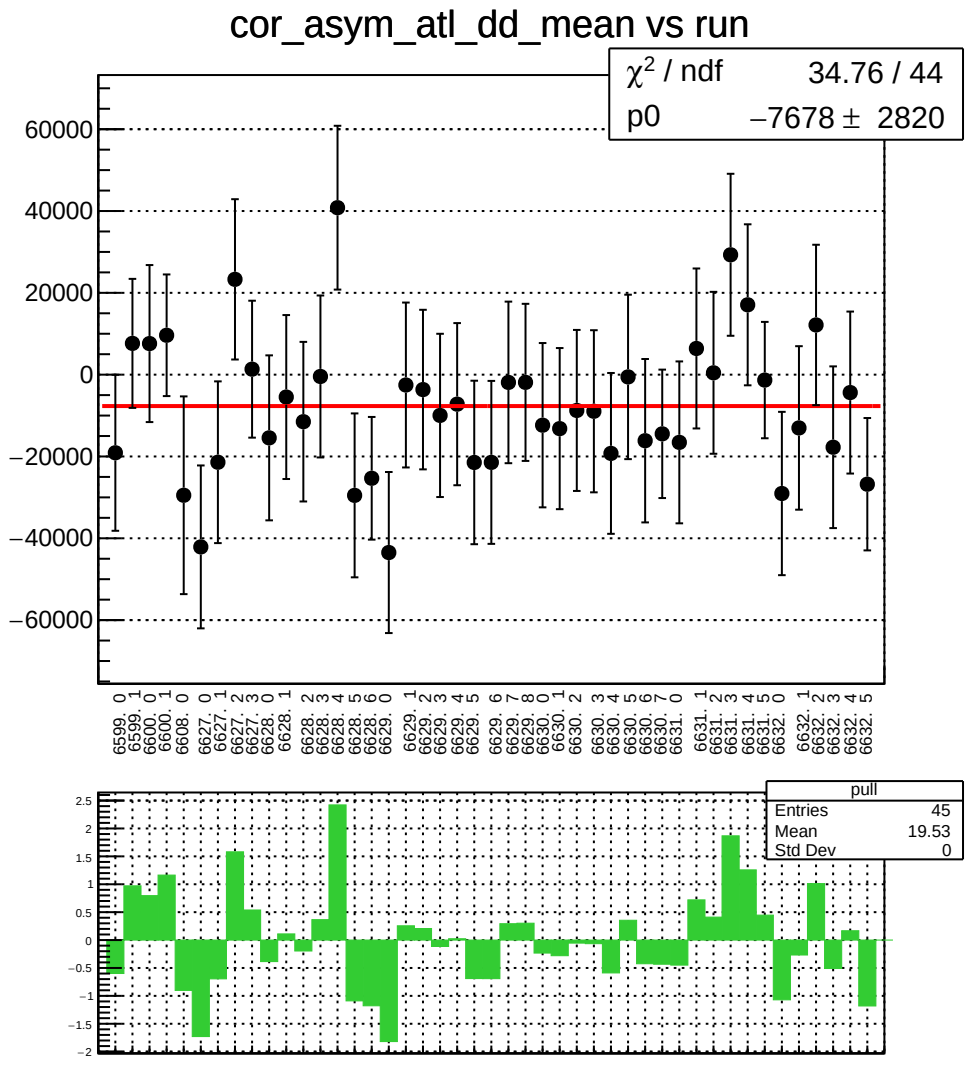

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.629e+05 / 44
p0 6.71e−11 ± 8.525e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

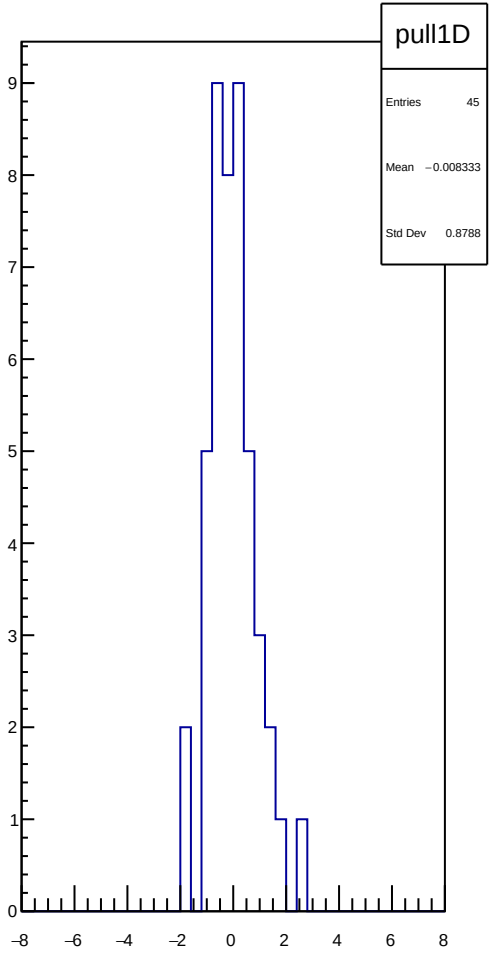

reg_asym_atl_dd_mean vs run
χ² / ndf 34.76 / 44
p0 −7678 ± 2820
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 19.56
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.008334
Std Dev 0.8788
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_rms vs run
χ² / ndf 179.6 / 44
p0 1873 ± 1.994
1940
1920
1900
1880
1860
1840
1820
1800
1780
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 63.11 / 44
p0 −6704 ± 5400
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −52.95
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01948
Std Dev 1.184
8
7
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 5940 / 44
p0 3575 ± 3.818
4400
4200
4000
3800
3600
3400
3200
3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_atl_dd_mean vs run
χ² / ndf 34.76 / 44
p0 −7678 ± 2820
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 19.53
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.008333
Std Dev 0.8788
9
8
7
6
5
4
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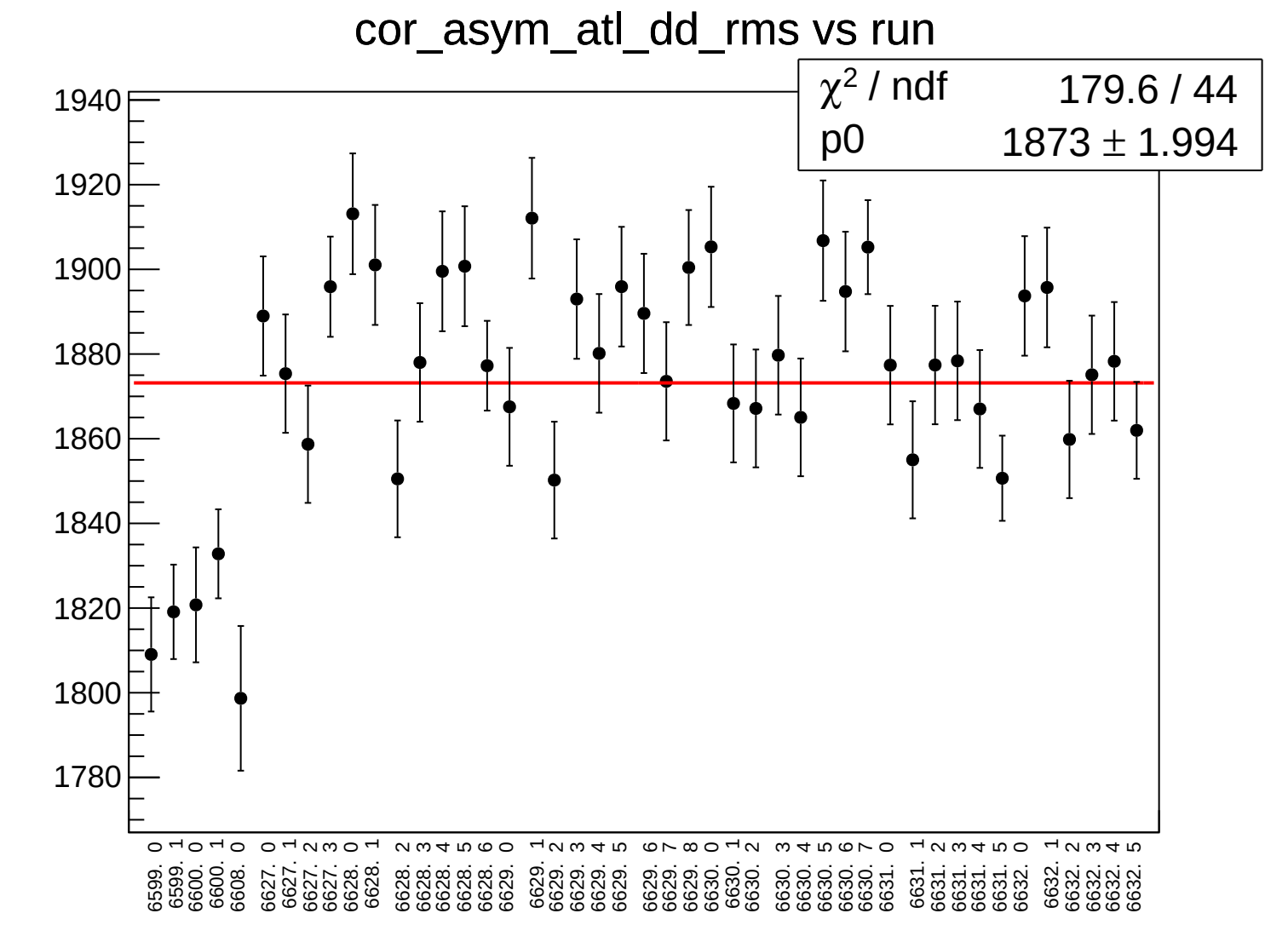
cor_asym_atl_dd_rms vs run
χ² / ndf 179.6 / 44
p0 1873 ± 1.994
1940
1920
1900
1880
1860
1840
1820
1800
1780
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
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6629. 0
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6630. 0
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6630. 6
6630. 7
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6631. 1
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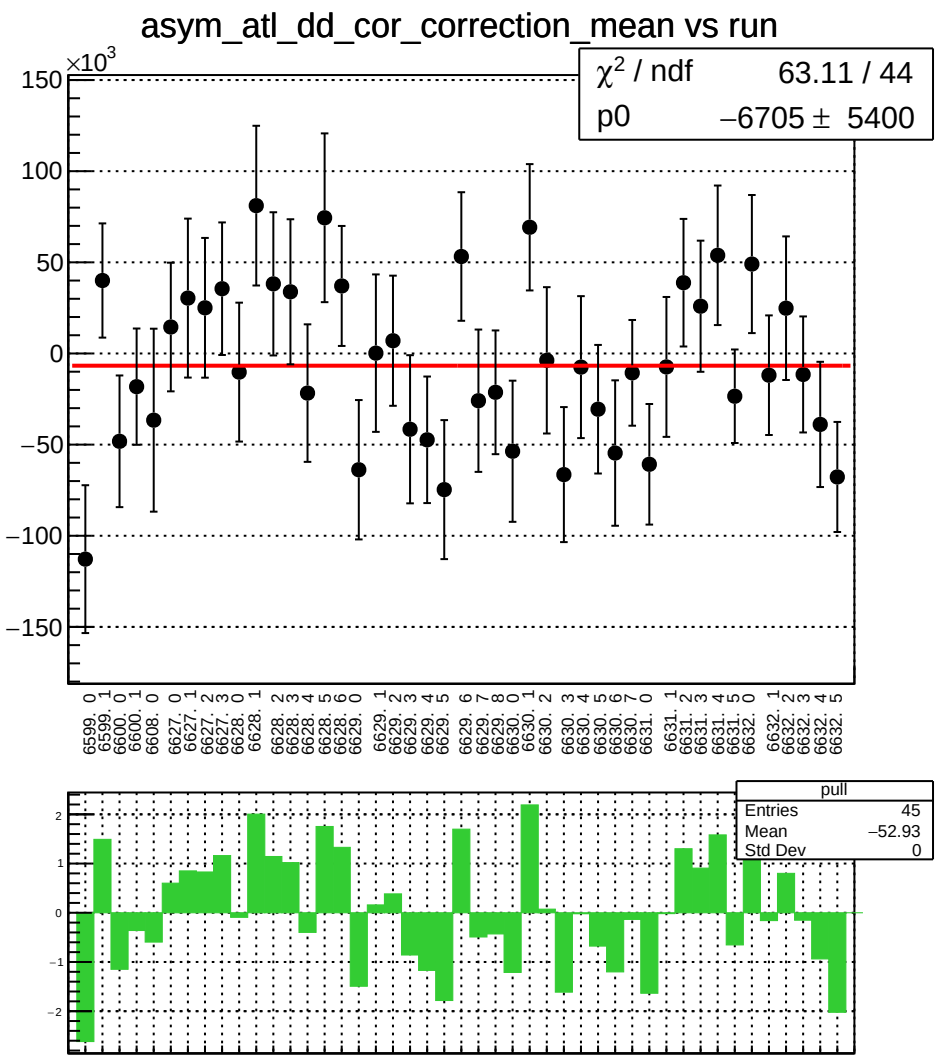
asym_atl_dd_cor_correction_mean vs run
×10^3
χ² / ndf 63.11 / 44
p0 −6705 ± 5400
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
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6630. 1
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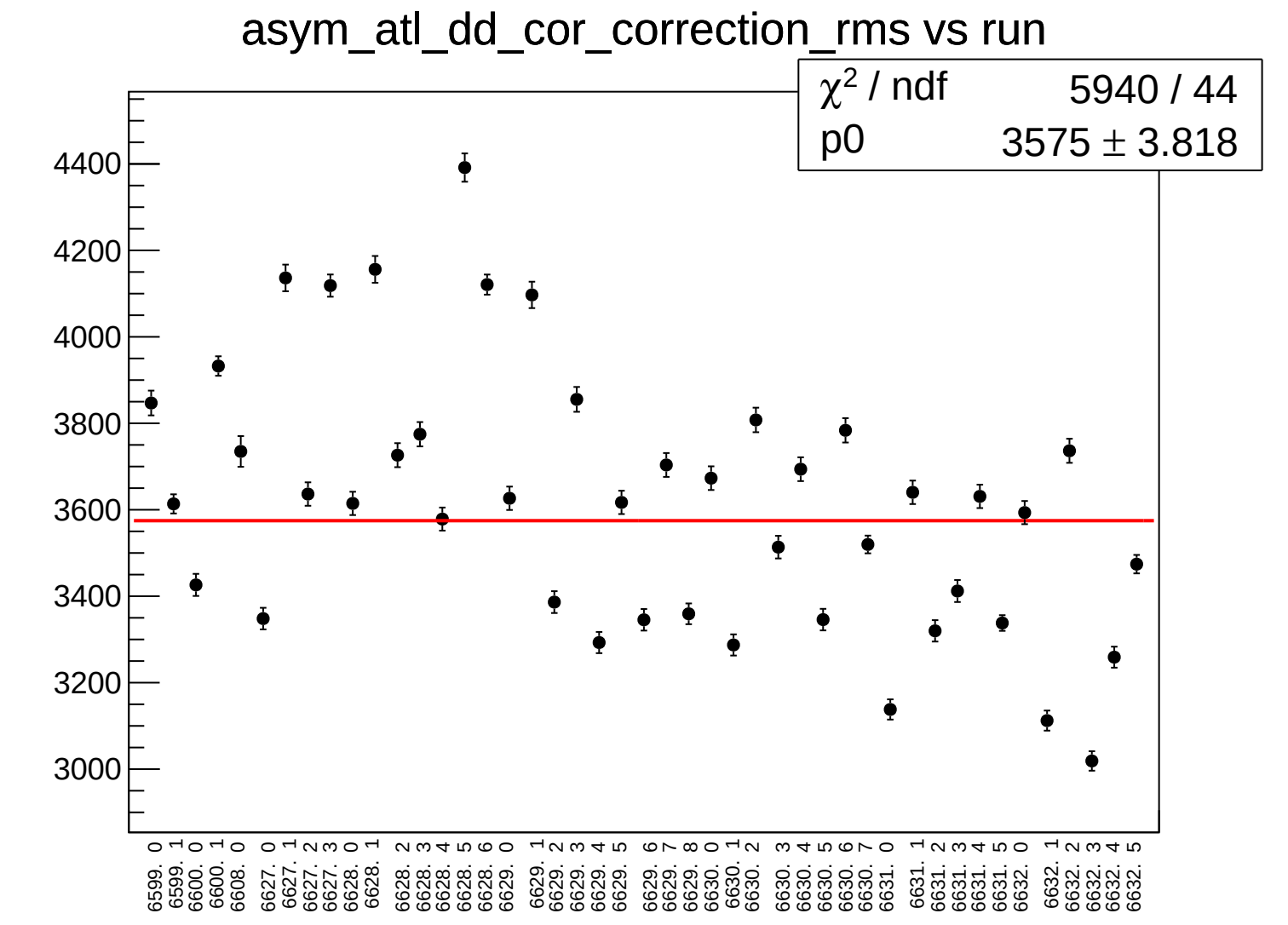
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −52.93
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01948
Std Dev 1.184
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_cor_correction_rms vs run
χ² / ndf 5940 / 44
p0 3575 ± 3.818
4400
4200
4000
3800
3600
3400
3200
3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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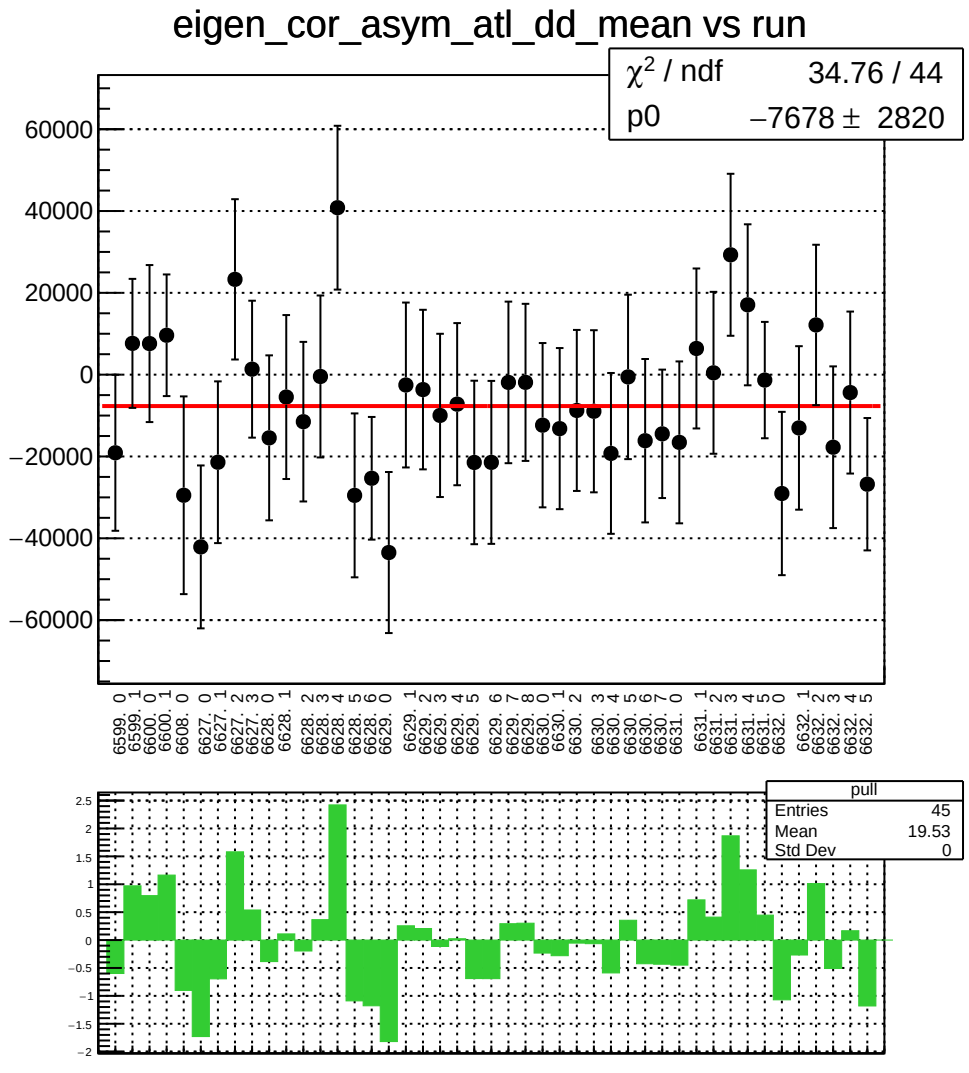
eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 34.76 / 44
p0 −7678 ± 2820
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6628. 0
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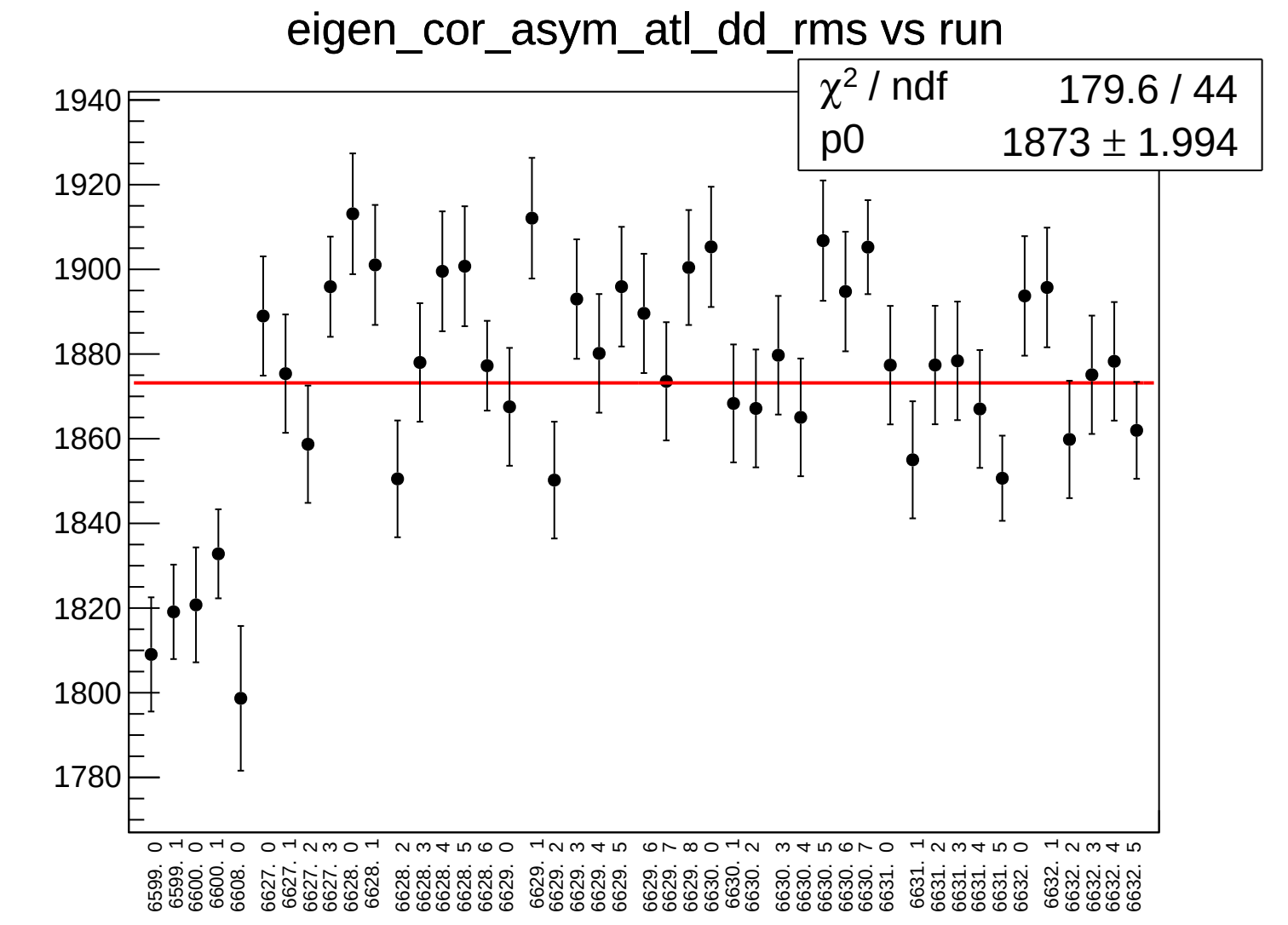
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 19.53
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.008333
Std Dev 0.8788
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 179.6 / 44
p0 1873 ± 1.994
1940
1920
1900
1880
1860
1840
1820
1800
1780
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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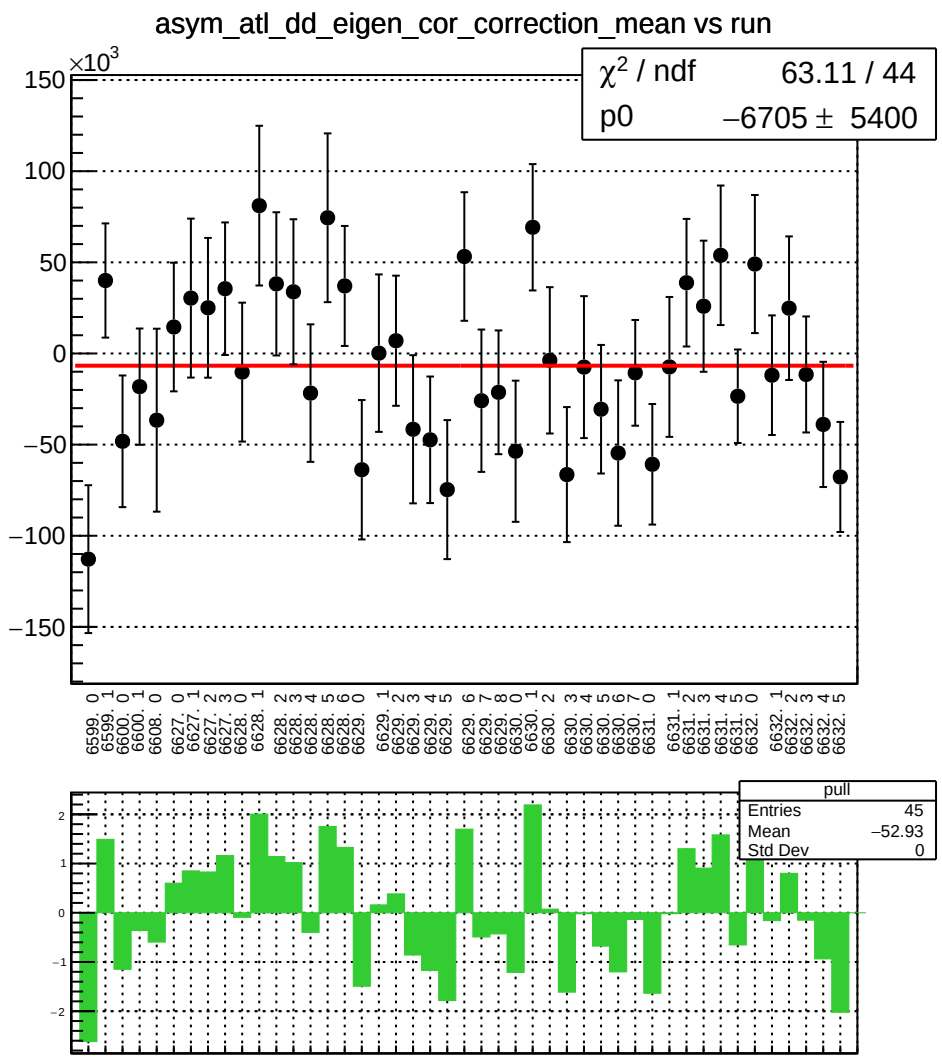
asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 63.11 / 44
p0 −6705 ± 5400
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6632. 0
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6632. 2
6632. 3
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6632. 5
pull
Entries 45
Mean −52.93
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01948
Std Dev 1.184
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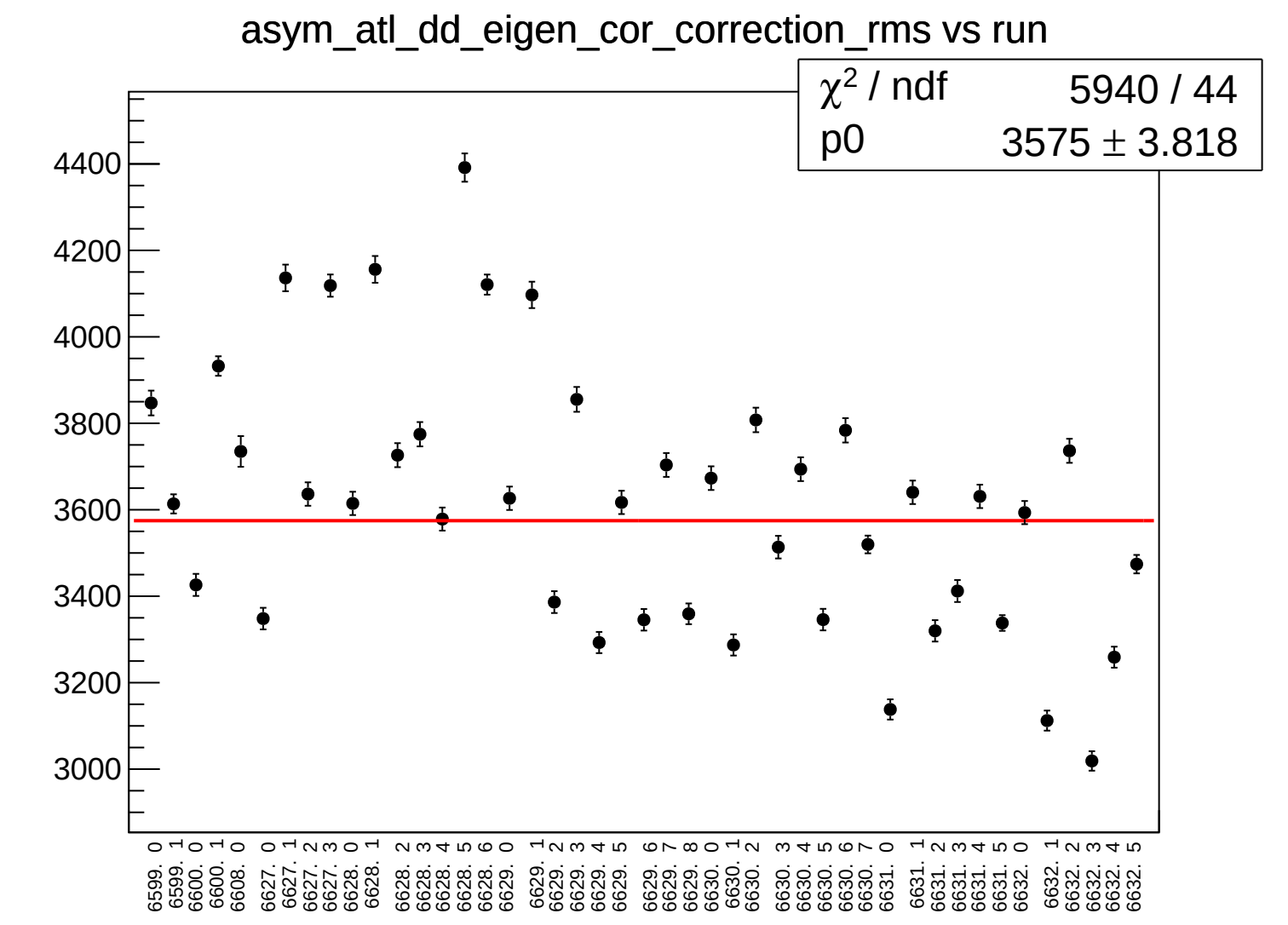
asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 5940 / 44
p0 3575 ± 3.818
4400
4200
4000
3800
3600
3400
3200
3000
6599. 0
6599. 1
6600. 0
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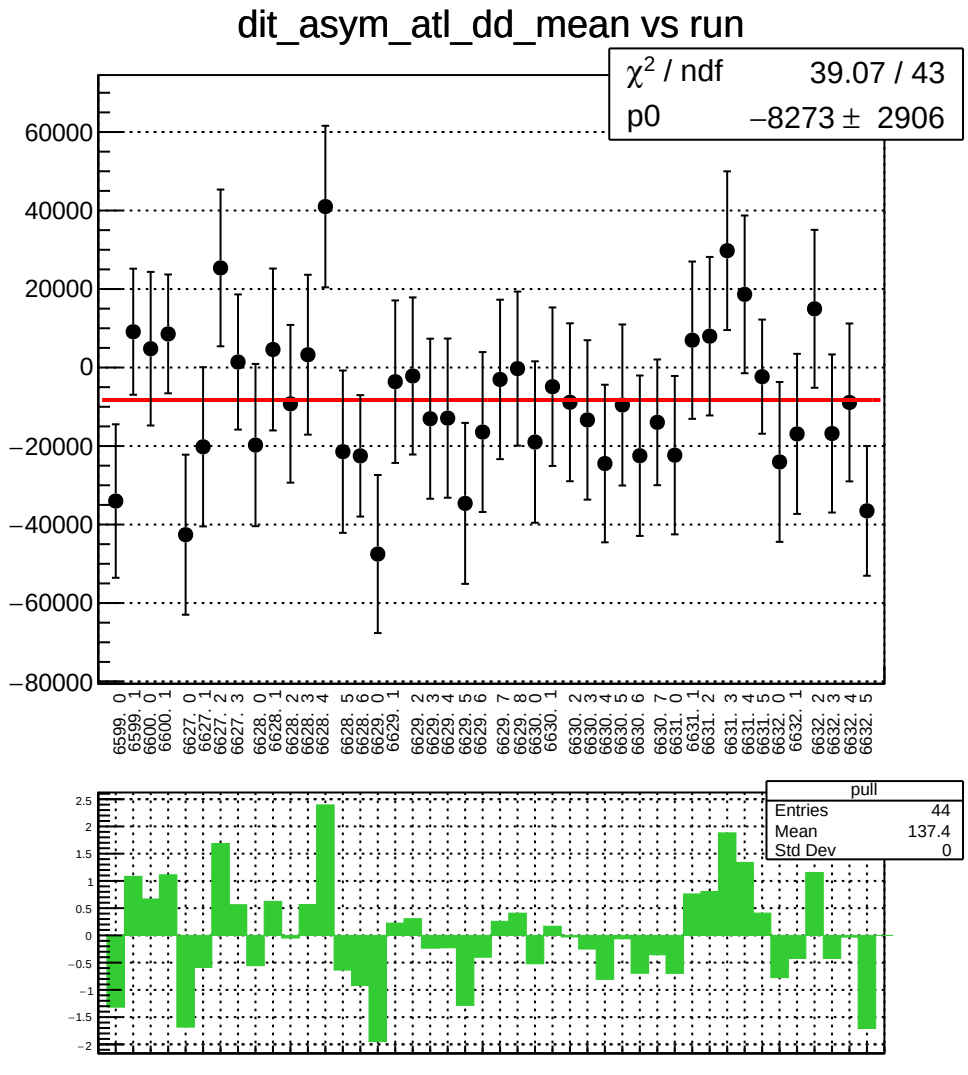
dit_asym_atl_dd_mean vs run
χ² / ndf 39.07 / 43
p0 −8273 ± 2906
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
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6630. 6
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6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 44
Mean 137.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 44
Mean −0.00462
Std Dev 0.9423
10
8
6
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2
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−8
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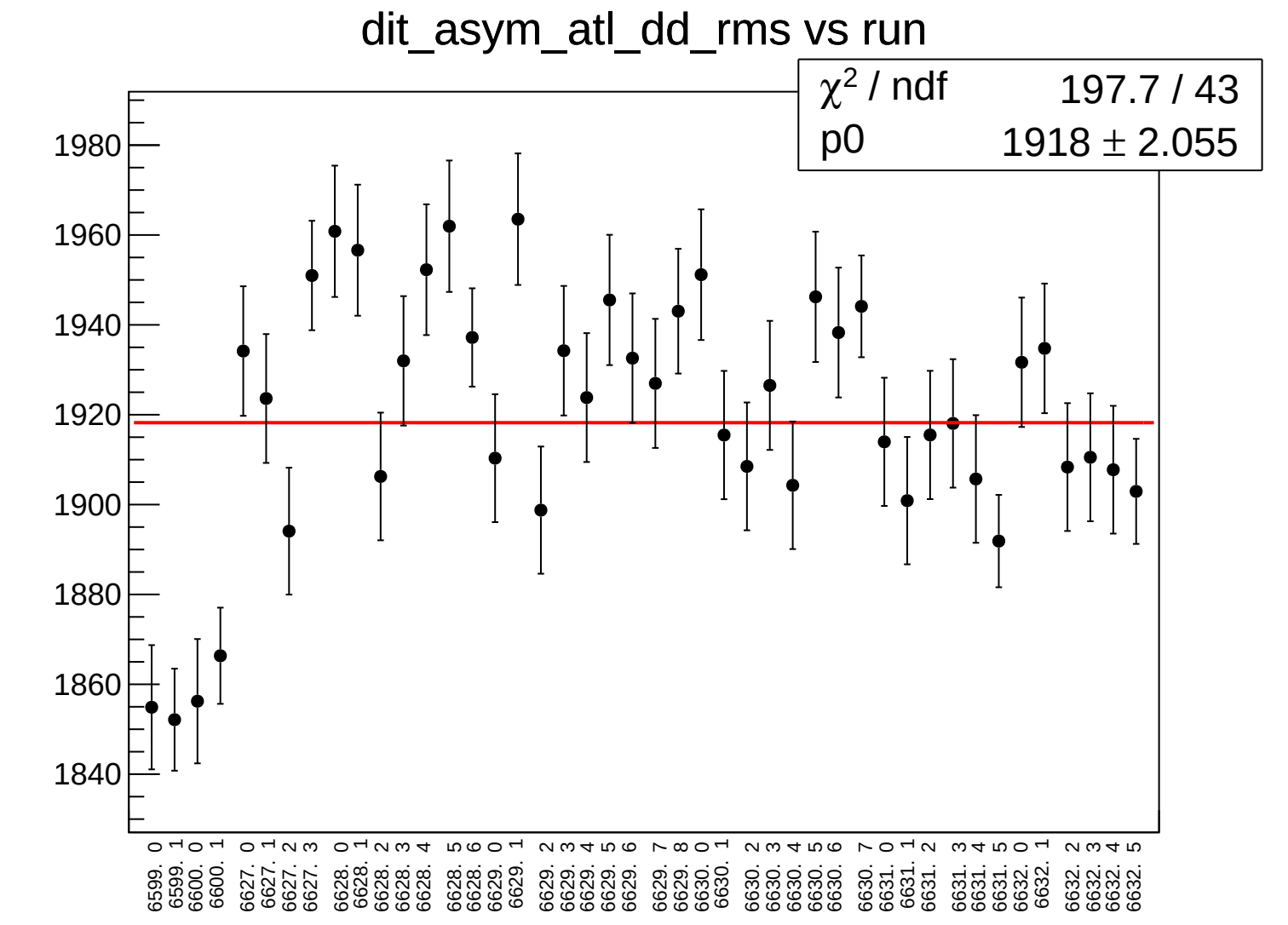
−4
−2
0
2
4
6
8


dit_asym_atl_dd_rms vs run
χ² / ndf 197.7 / 43
p0 1918 ± 2.055
1980
1960
1940
1920
1900
1880
1860
1840
6599. 0
6599. 1
6600. 0
6600. 1
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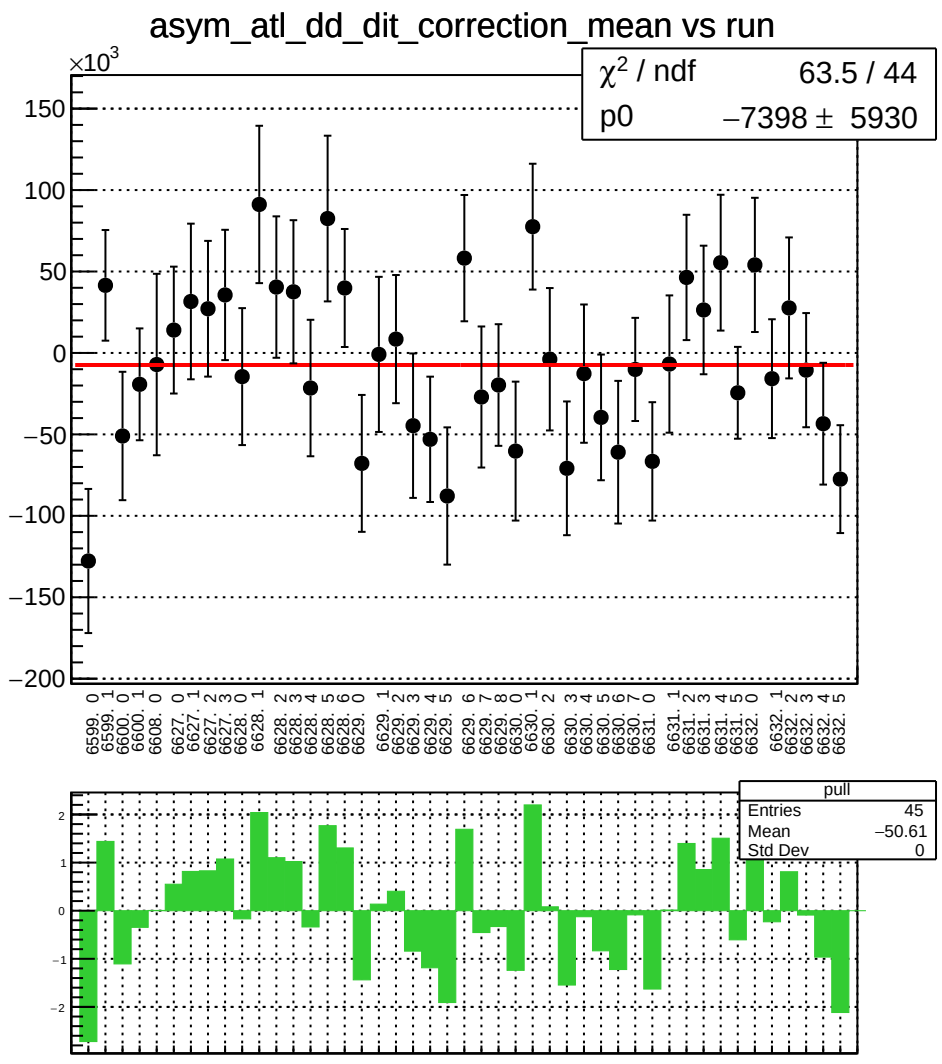
asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 63.5 / 44
p0 −7398 ± 5930
150
100
50
0
−50
−100
−150
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −50.61
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.02263
Std Dev 1.188
8
7
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5
4
3
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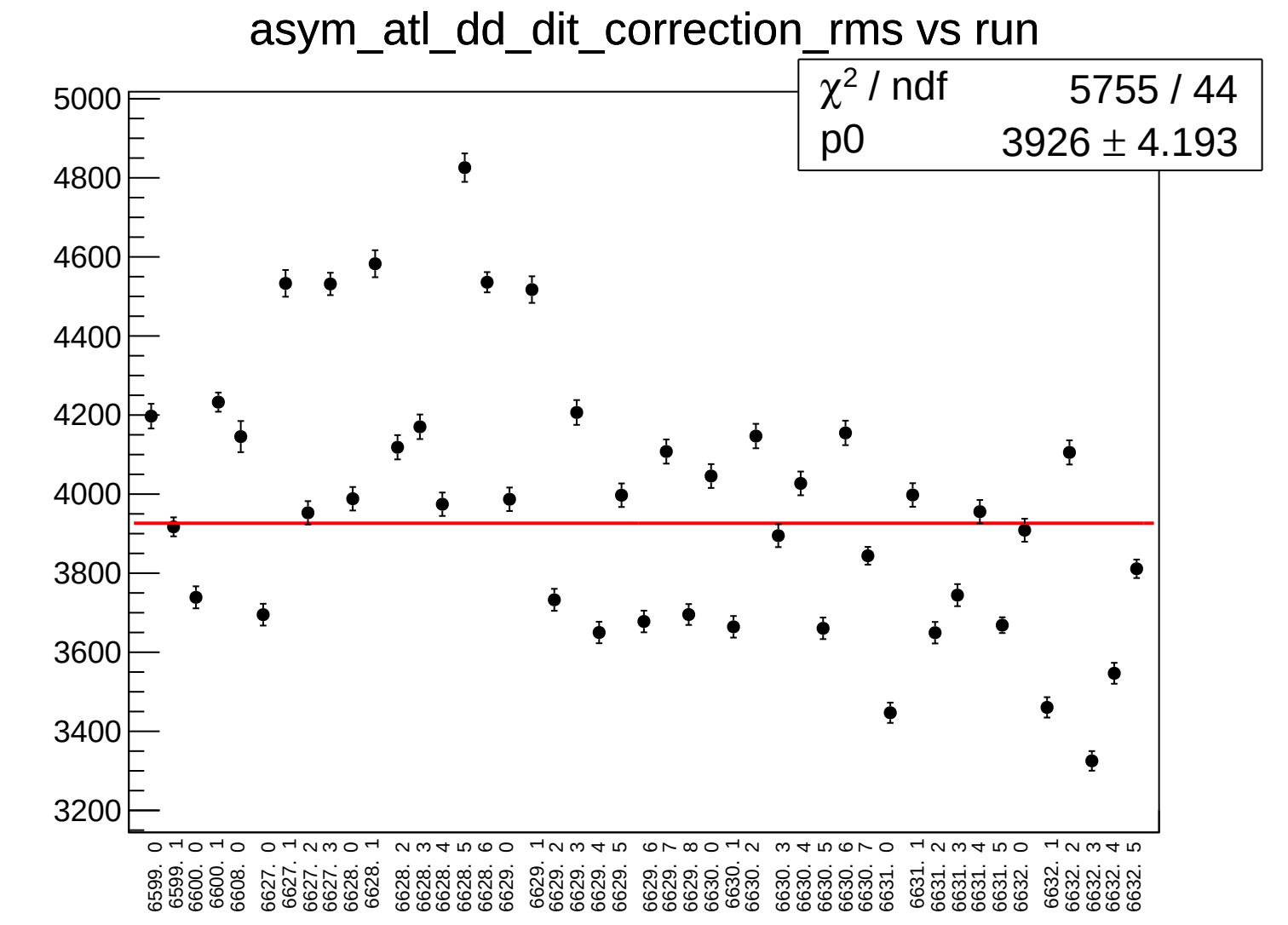
6
8


asym_atl_dd_dit_correction_rms vs run
χ² / ndf 5755 / 44
p0 3926 ± 4.193
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
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6628. 6
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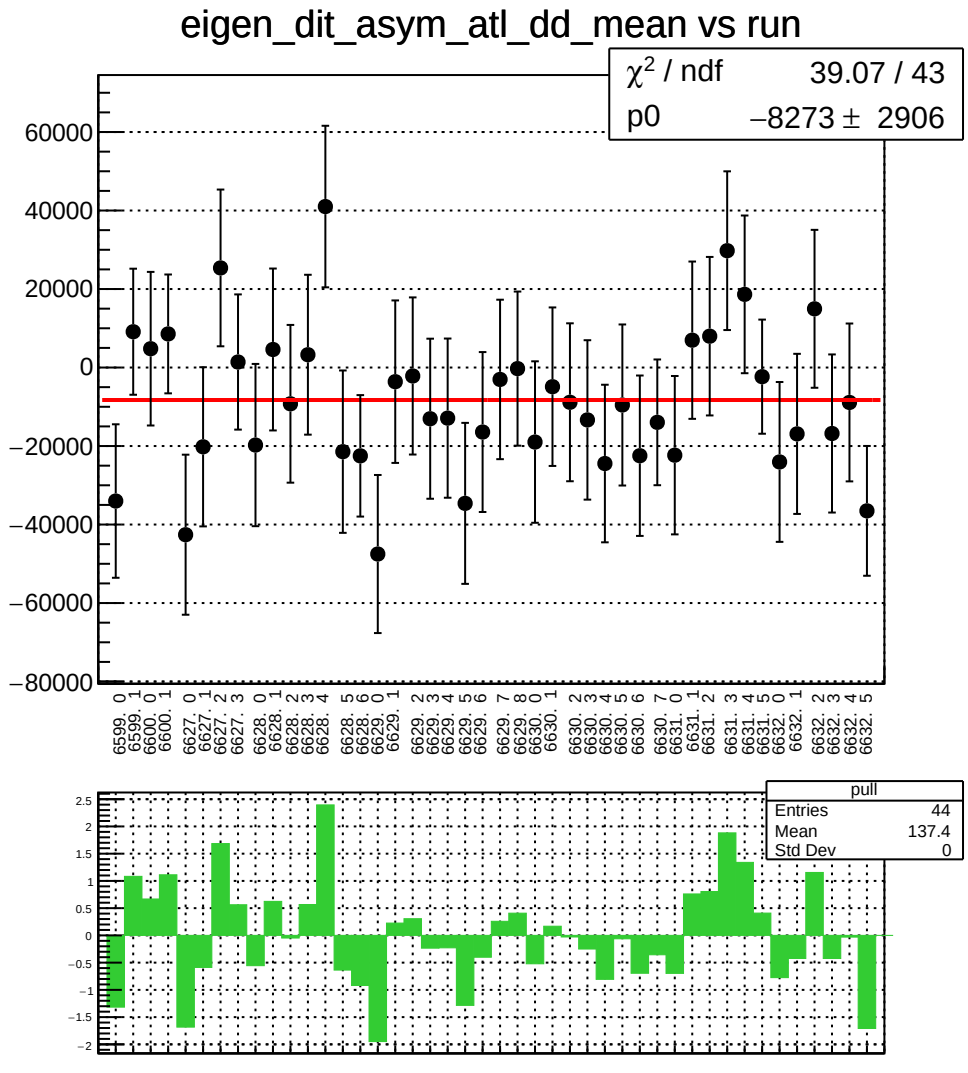
eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 39.07 / 43
p0 −8273 ± 2906
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
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6632. 5
pull
Entries 44
Mean 137.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 44
Mean −0.00462
Std Dev 0.9423
10
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2
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−4
−2
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2
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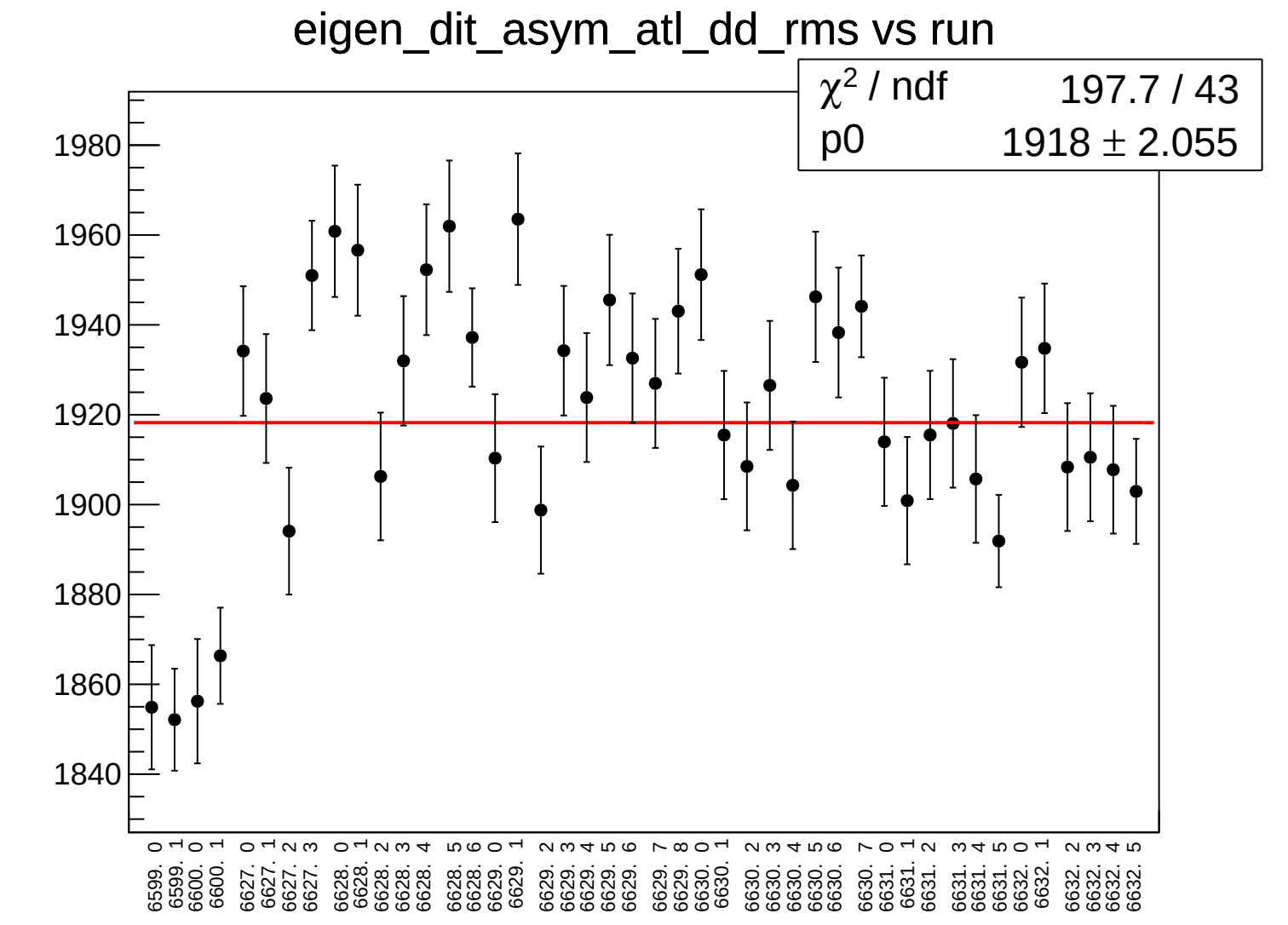
6
8


eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 197.7 / 43
p0 1918 ± 2.055
1980
1960
1940
1920
1900
1880
1860
1840
6599. 0
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6600. 0
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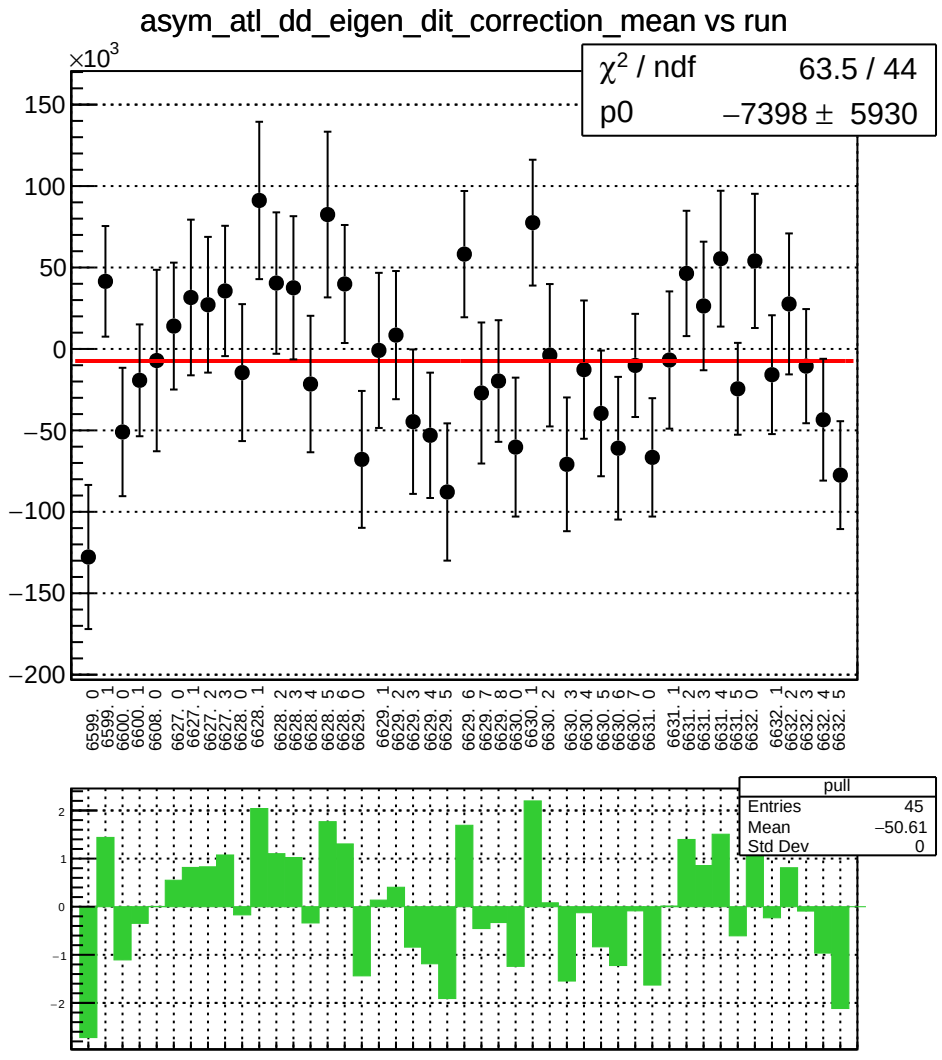
asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 63.5 / 44
p0 −7398 ± 5930
150
100
50
0
−50
−100
−150
−200
6599. 0
6599. 1
6600. 0
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pull
Entries 45
Mean −50.61
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.02263
Std Dev 1.188
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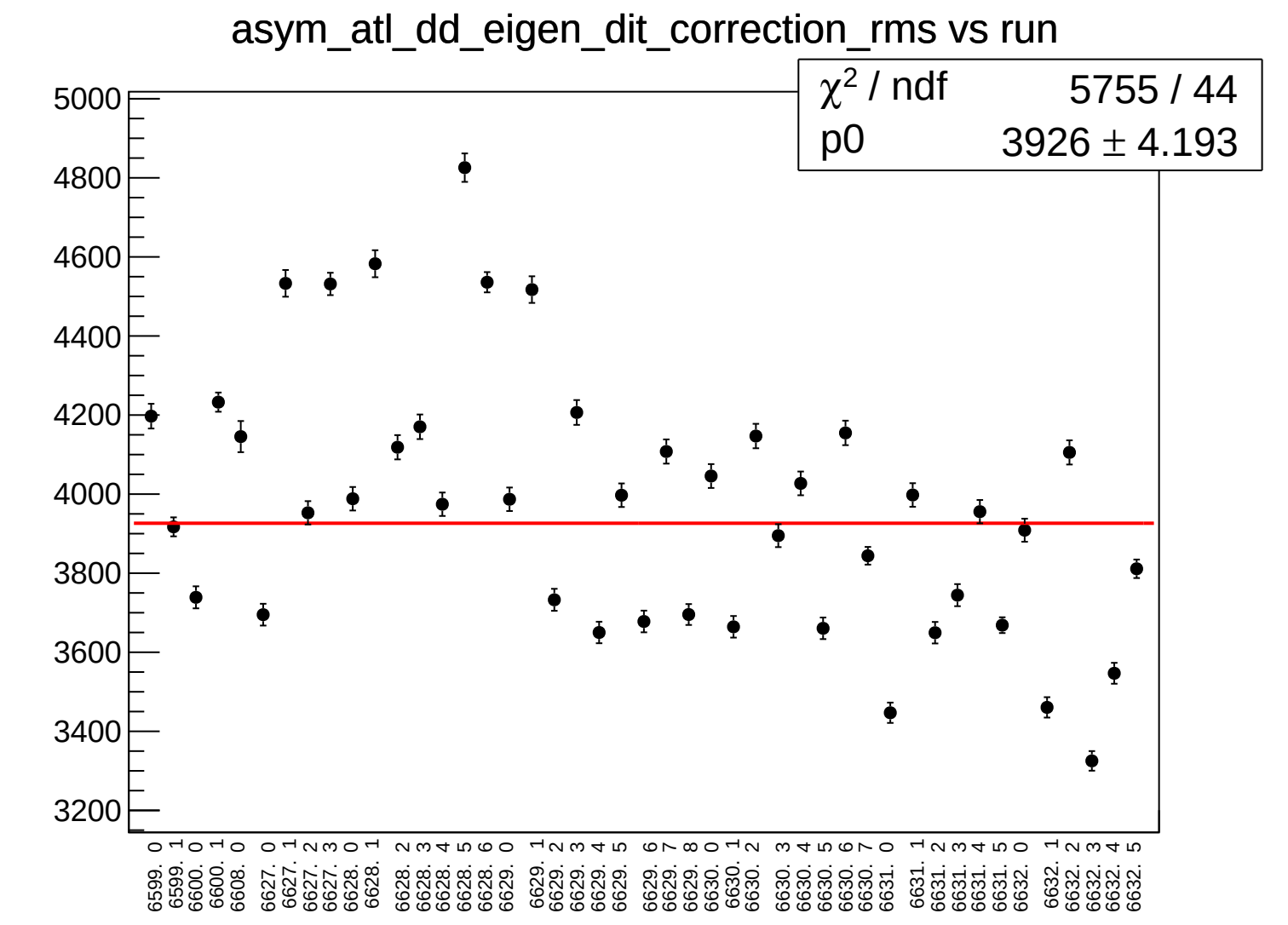
asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 5755 / 44
p0 3926 ± 4.193
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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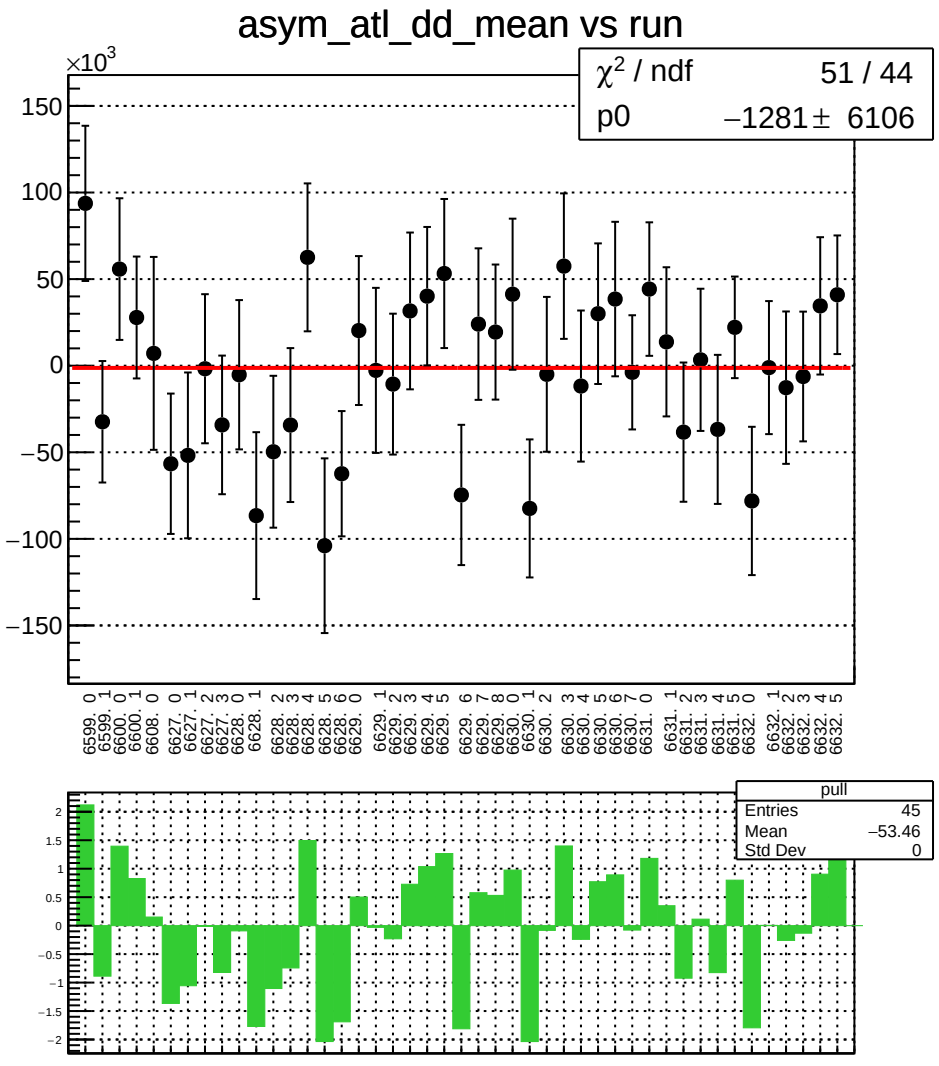
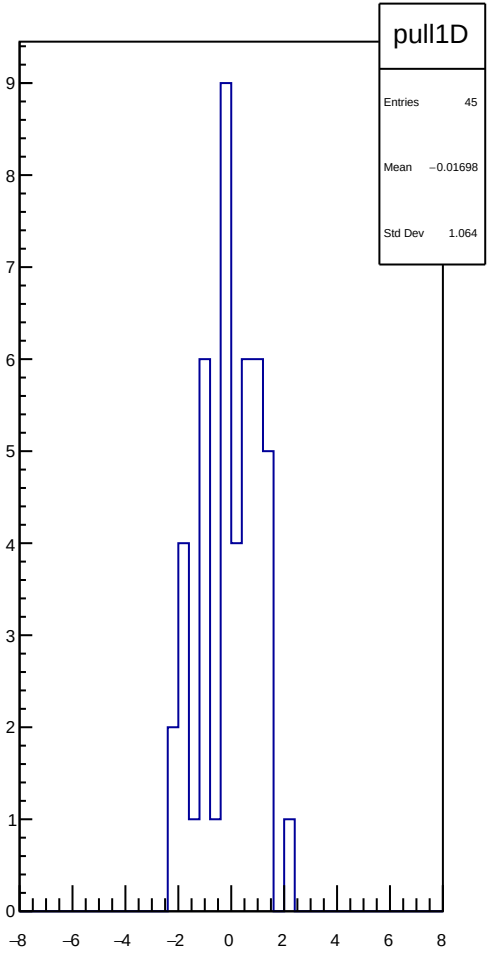
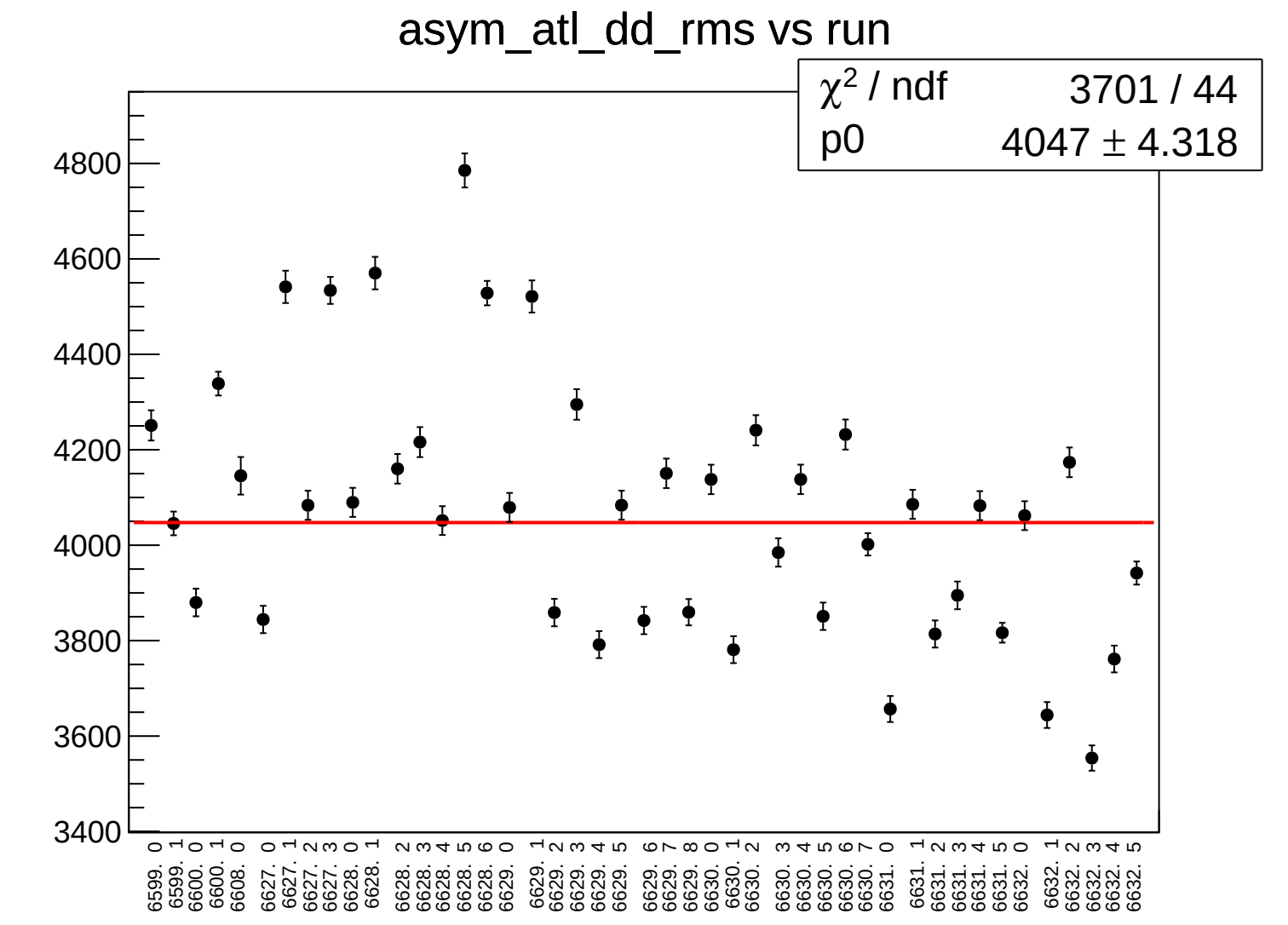
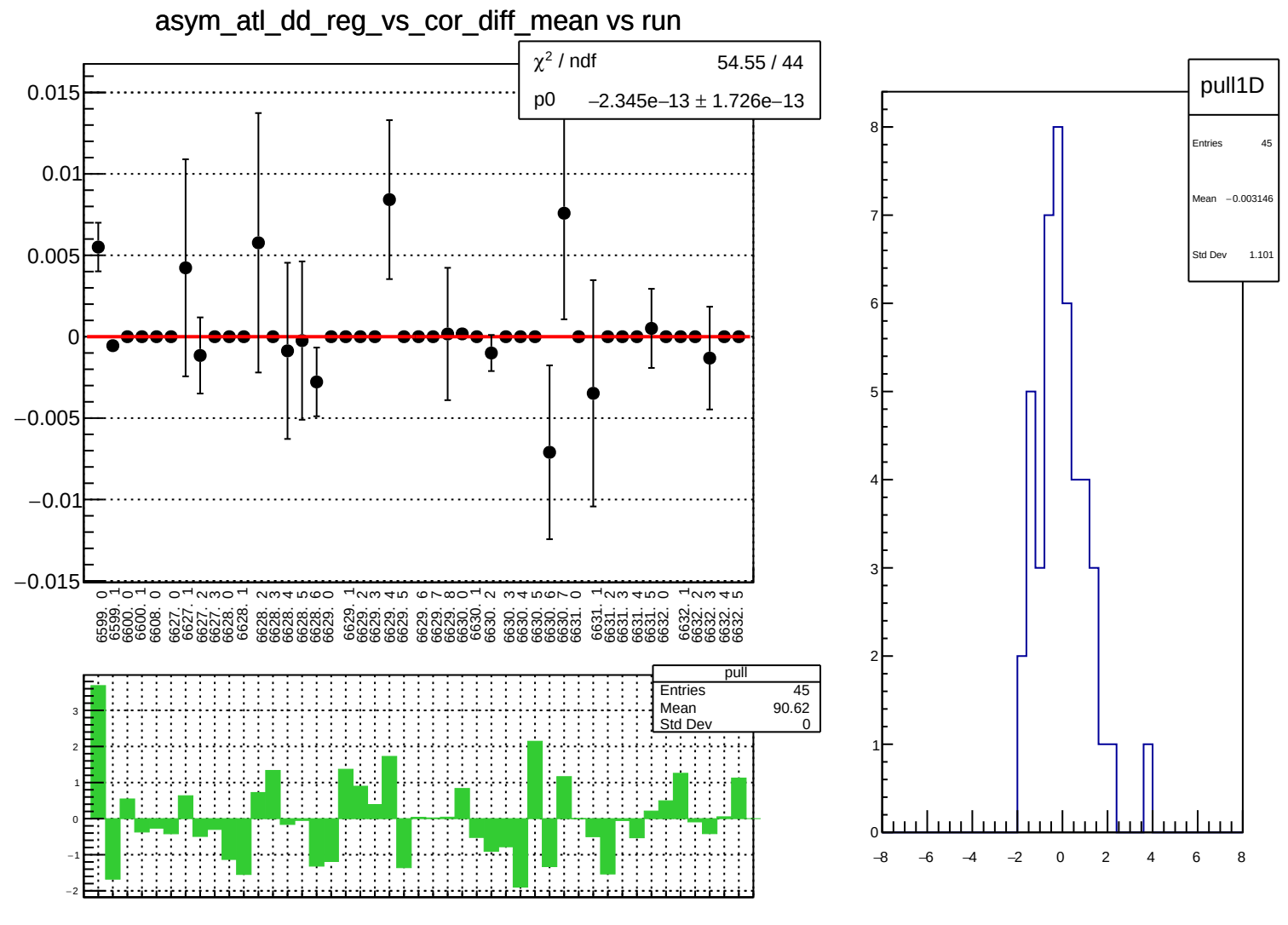
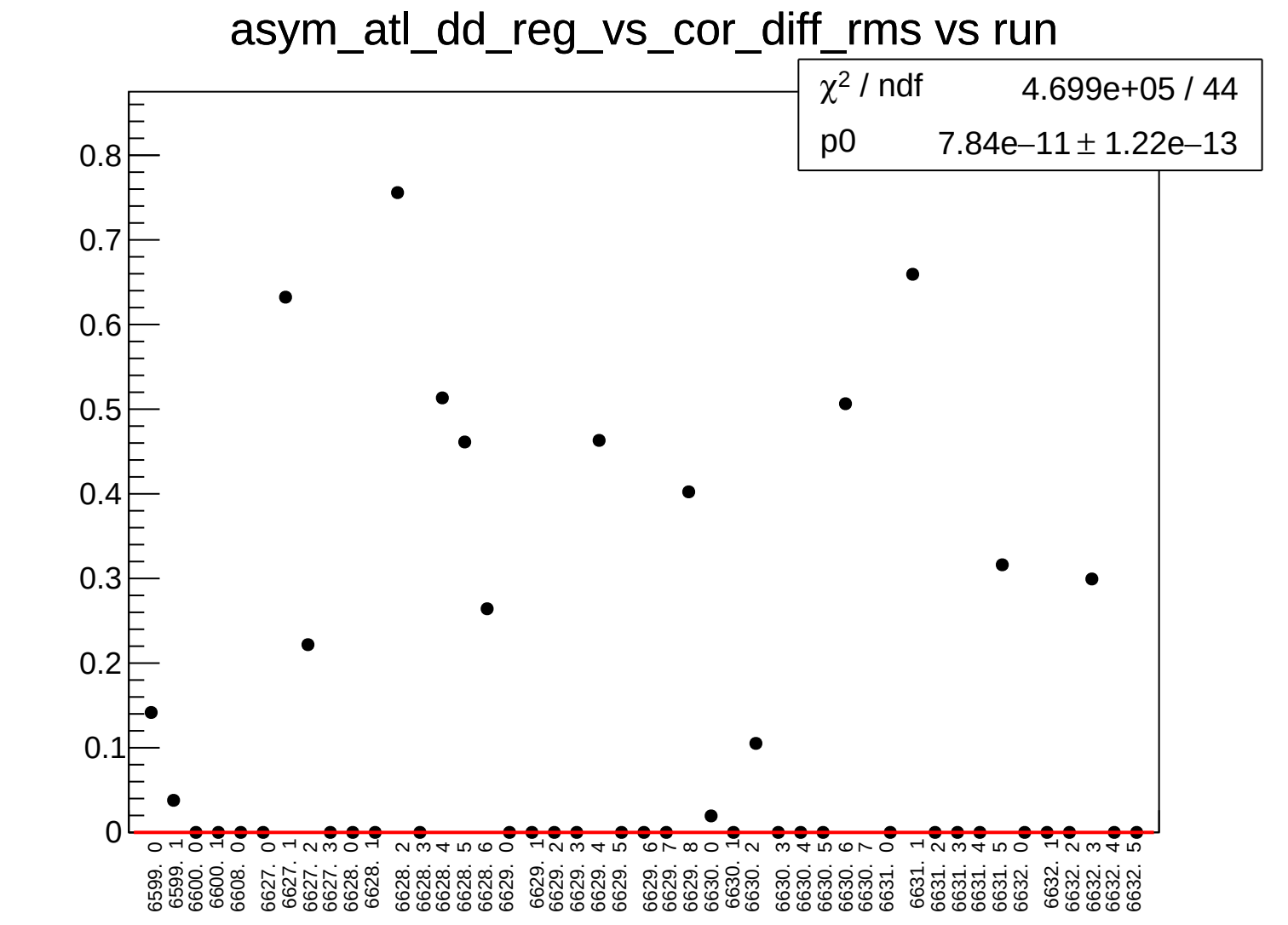
6632. 5

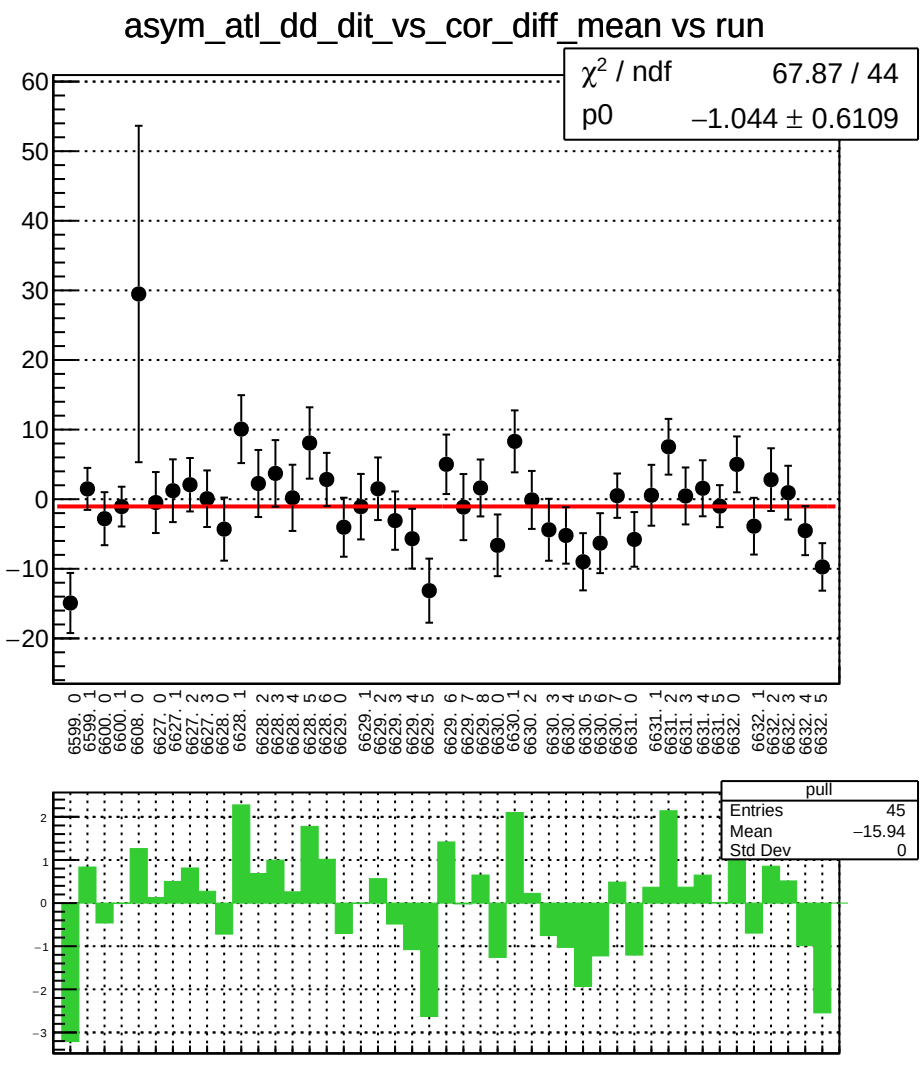

asym_atl_dd_mean vs run
×10^3
χ² / ndf 51 / 44
p0 −1281 ± 6106
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −53.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

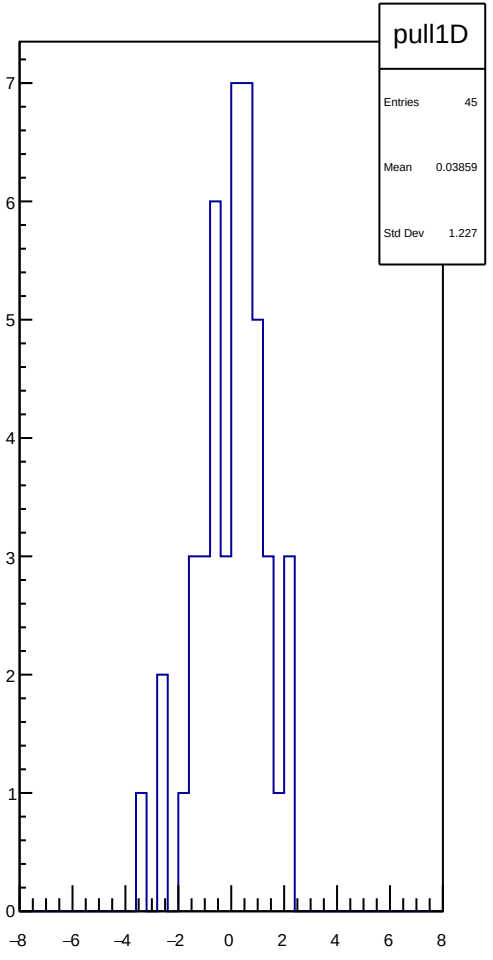

pull1D
Entries 45
Mean −0.01698
Std Dev 1.064
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

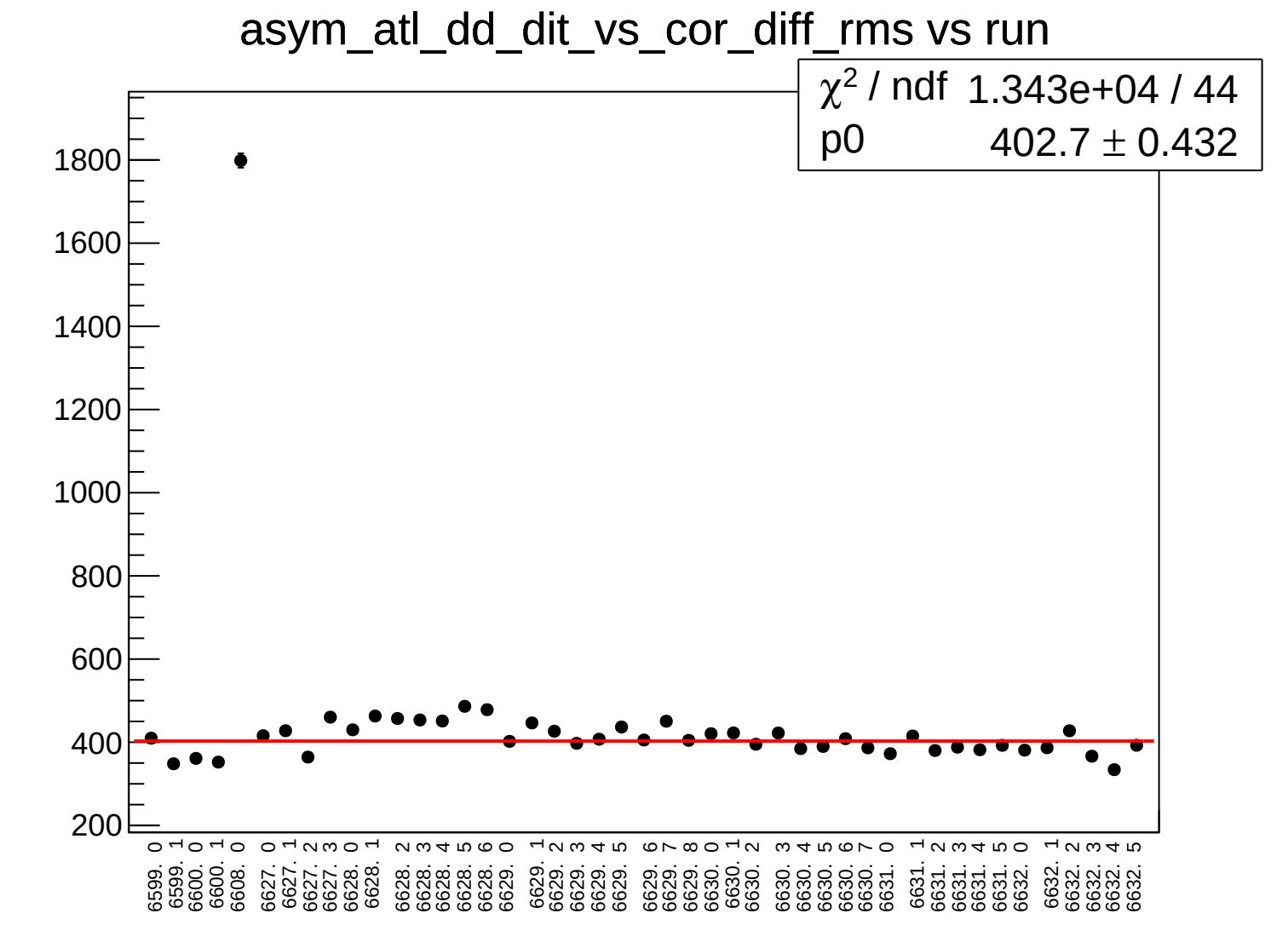

asym_atl_dd_rms vs run
χ² / ndf 3701 / 44
p0 4047 ± 4.318
4800
4600
4400
4200
4000
3800
3600
3400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

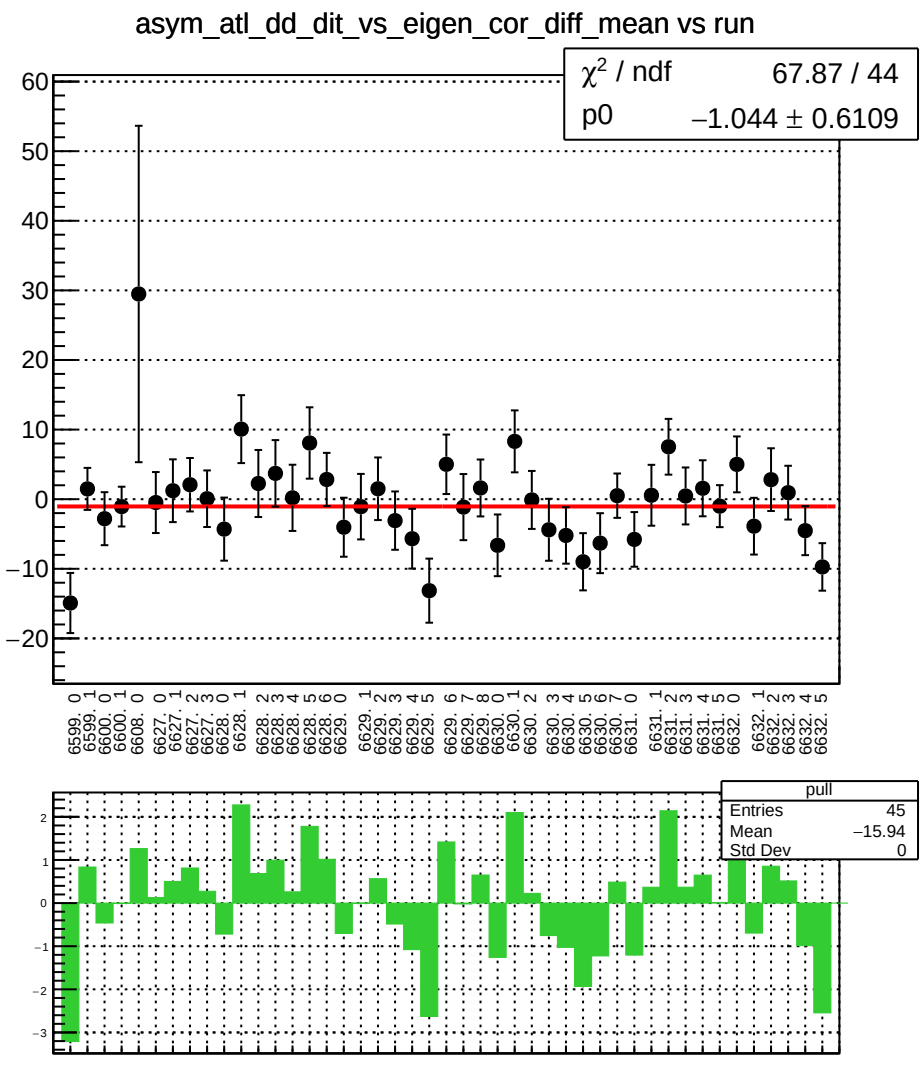

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 54.55 / 44
p0 −2.345e−13 ± 1.726e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 90.62
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.003146
Std Dev 1.101
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

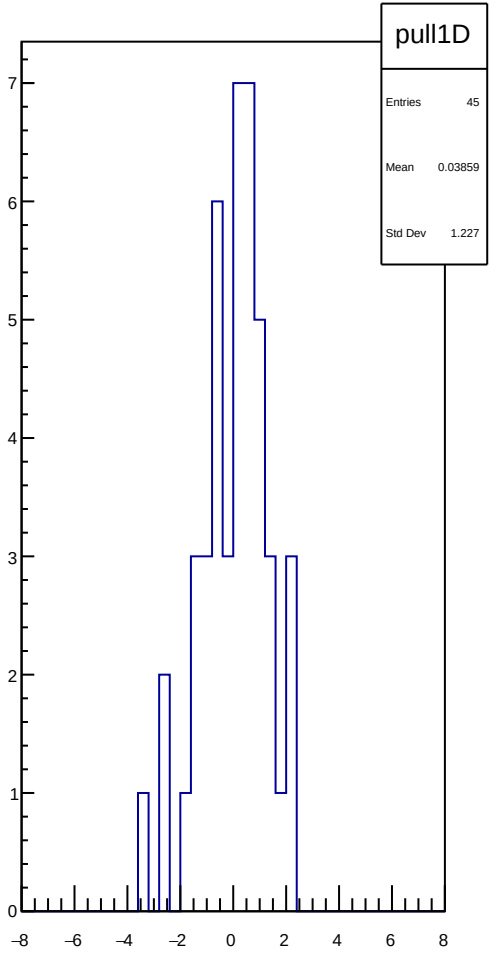

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.699e+05 / 44
p0 7.84e−11 ± 1.22e−13
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

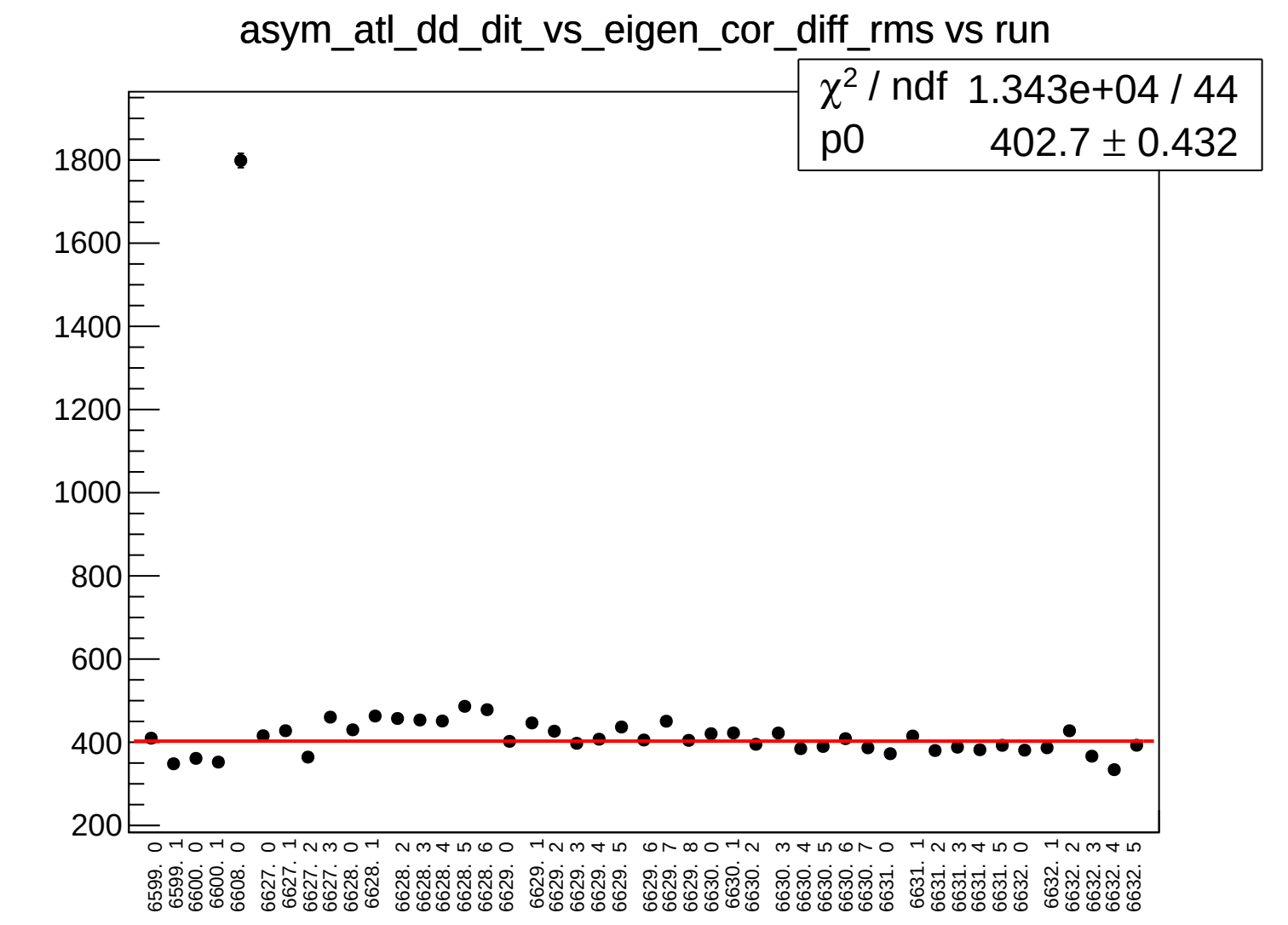

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 67.87 / 44
p0 −1.044 ± 0.6109
pull
Entries 45
Mean −15.94
Std Dev 0

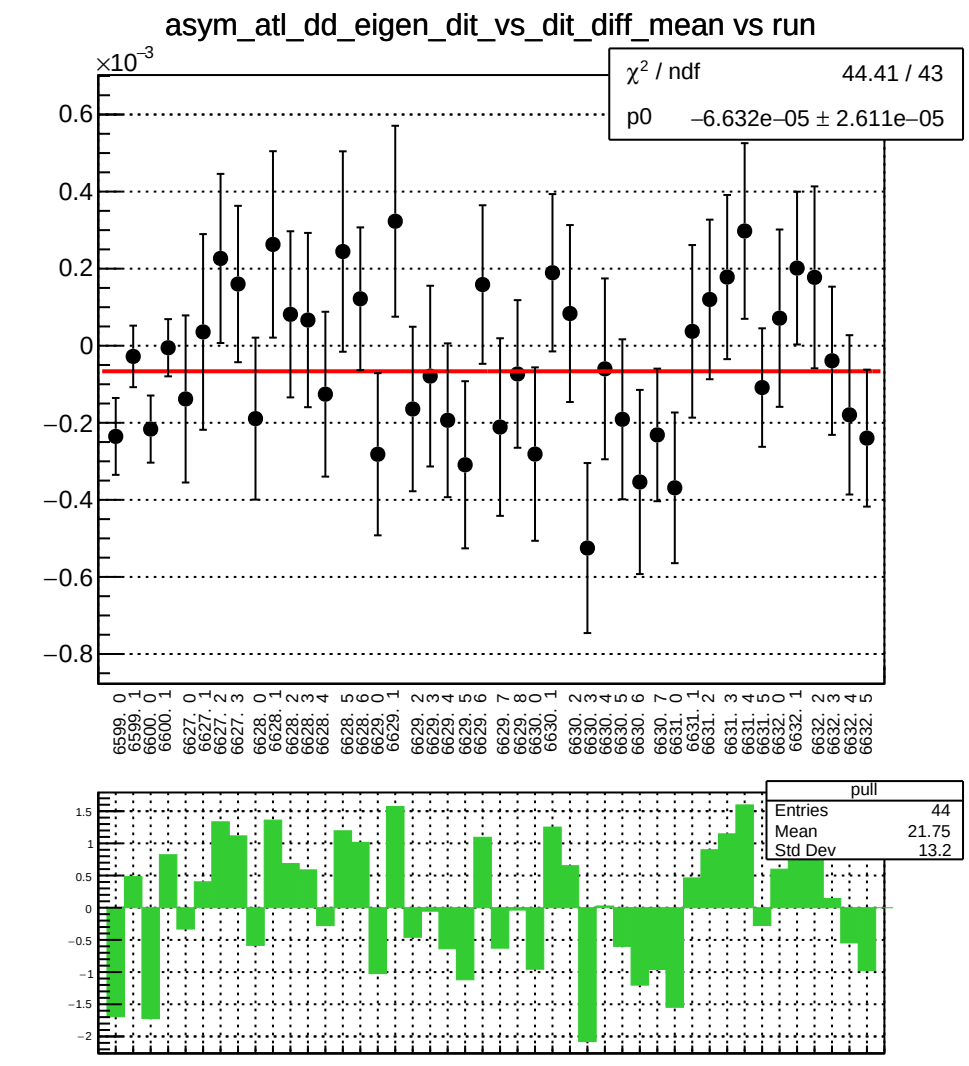

pull1D
Entries 45
Mean 0.03859
Std Dev 1.227

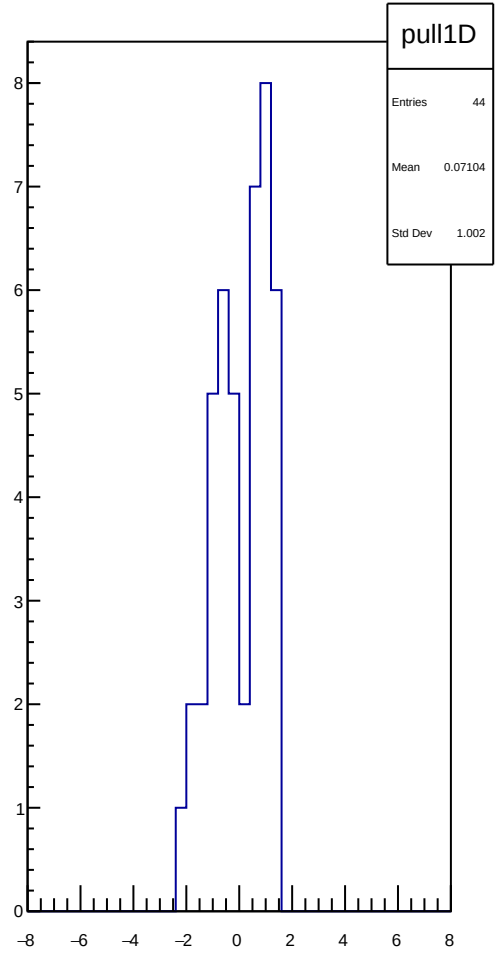

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.343e+04 / 44
p0 402.7 ± 0.432
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

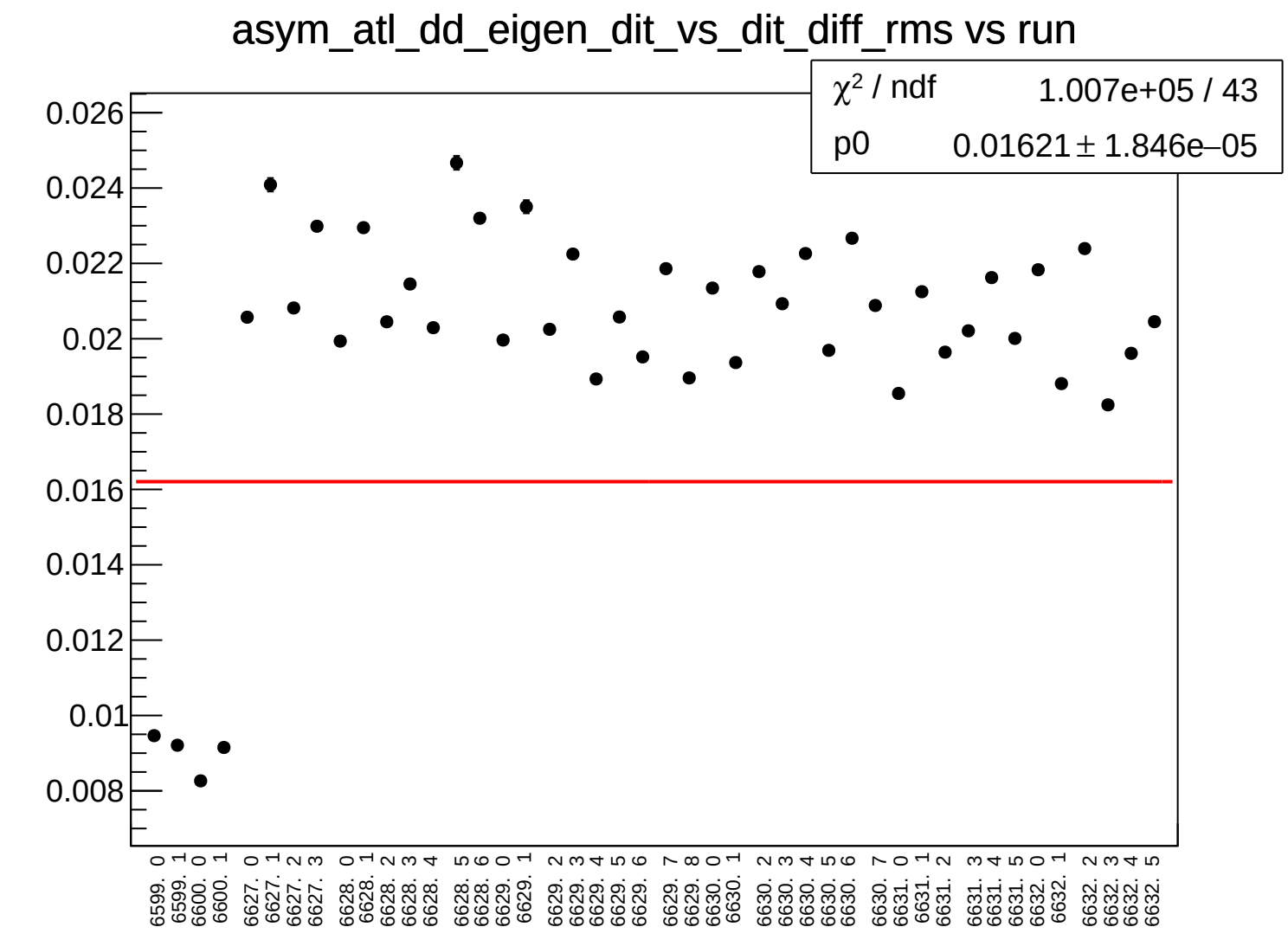

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.87 / 44
p0 −1.044 ± 0.6109
pull
Entries 45
Mean −15.94
Std Dev 0

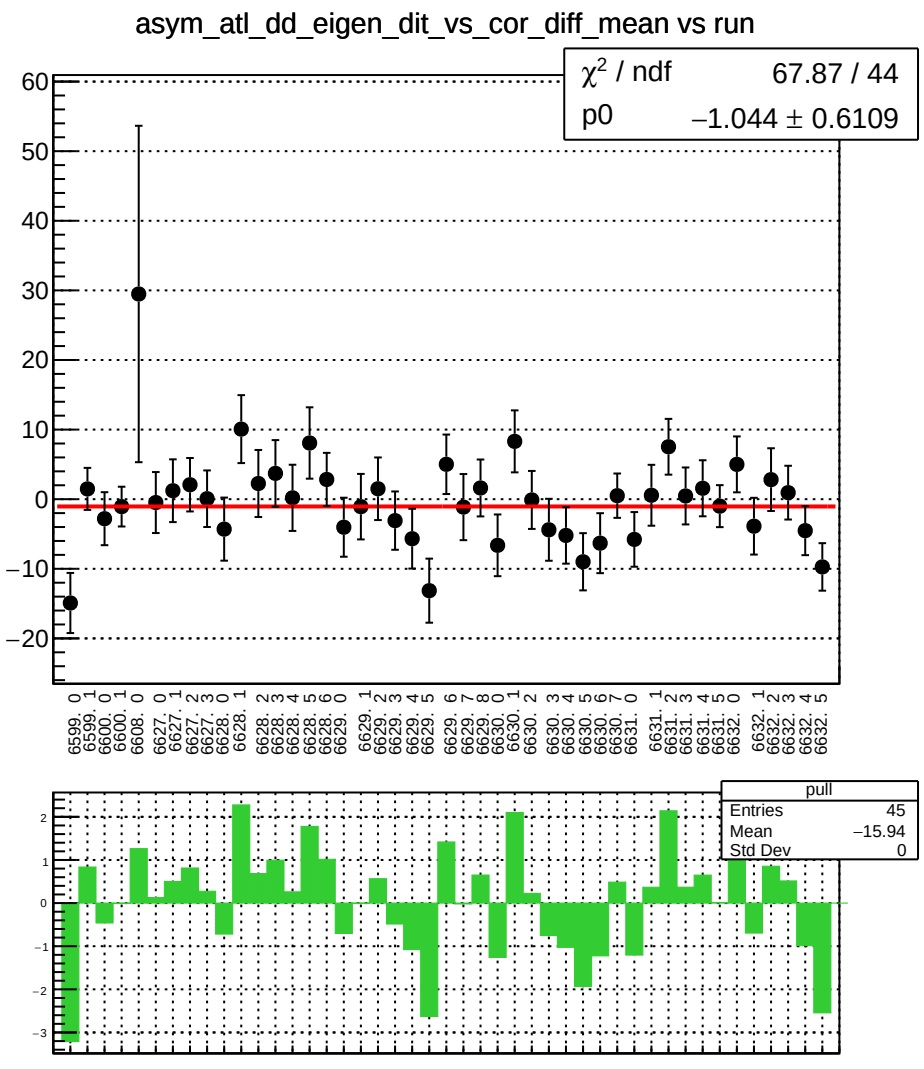

pull1D
Entries 45
Mean 0.03859
Std Dev 1.227

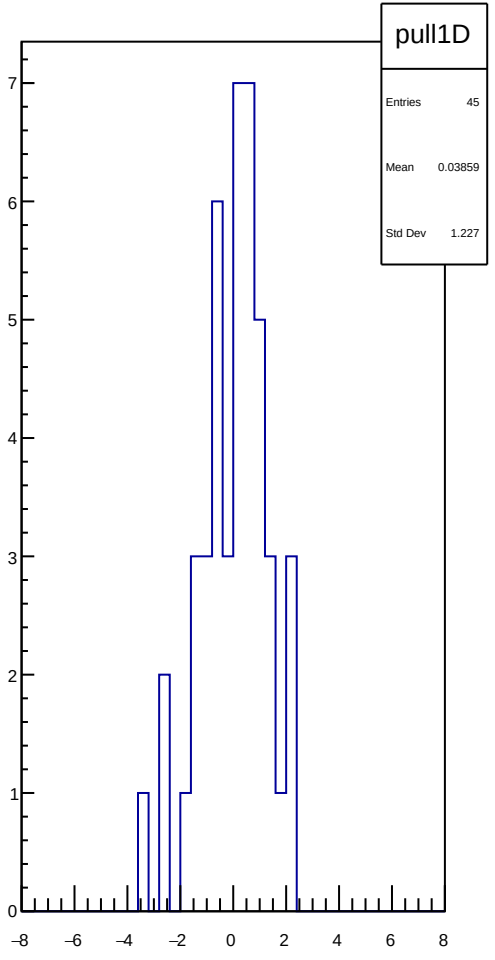

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.343e+04 / 44
p0 402.7 ± 0.432
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

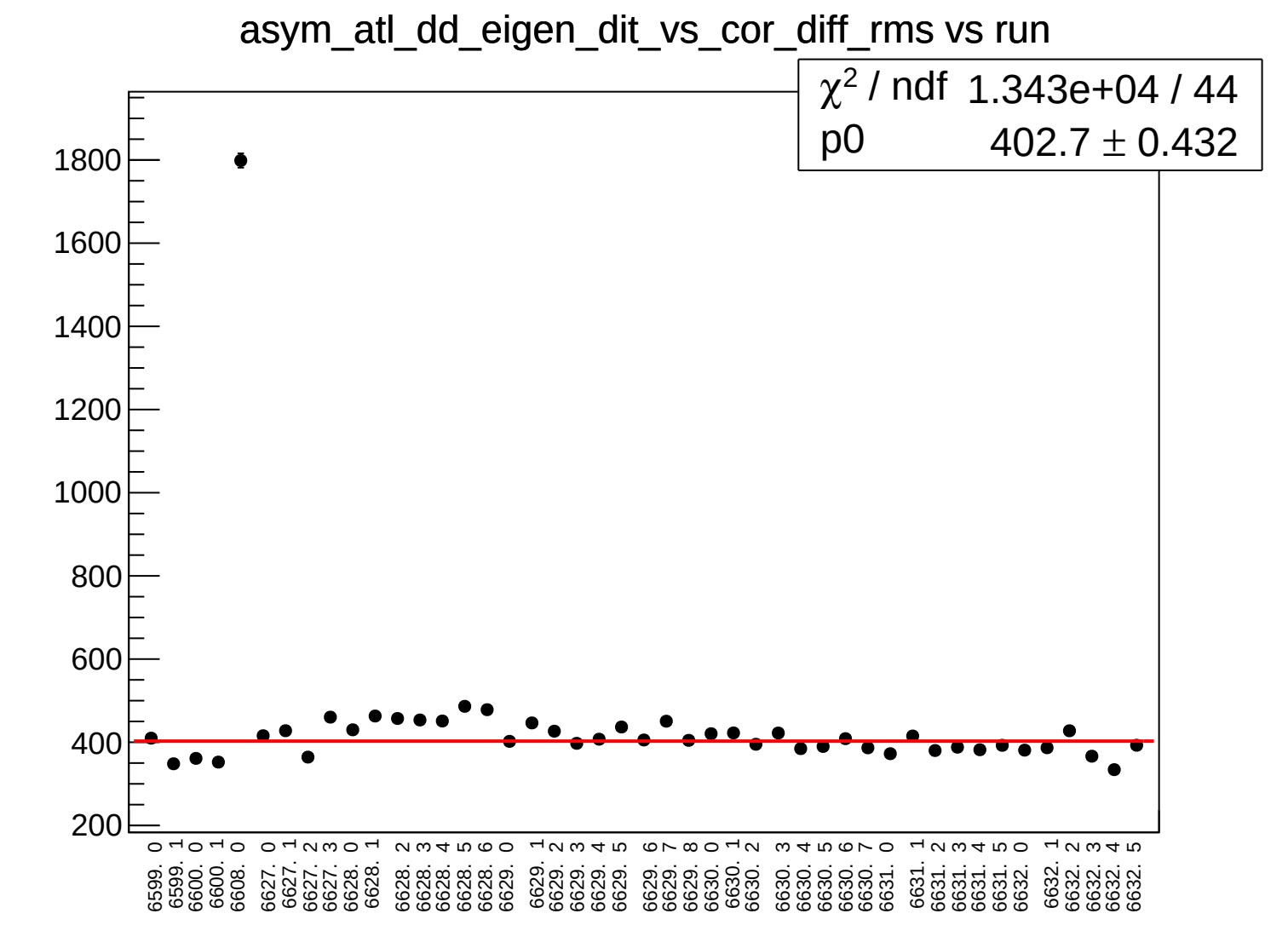

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 44.41 / 43
p0 −6.632e−05 ± 2.611e−05
pull
Entries 44
Mean 21.75
Std Dev 13.2

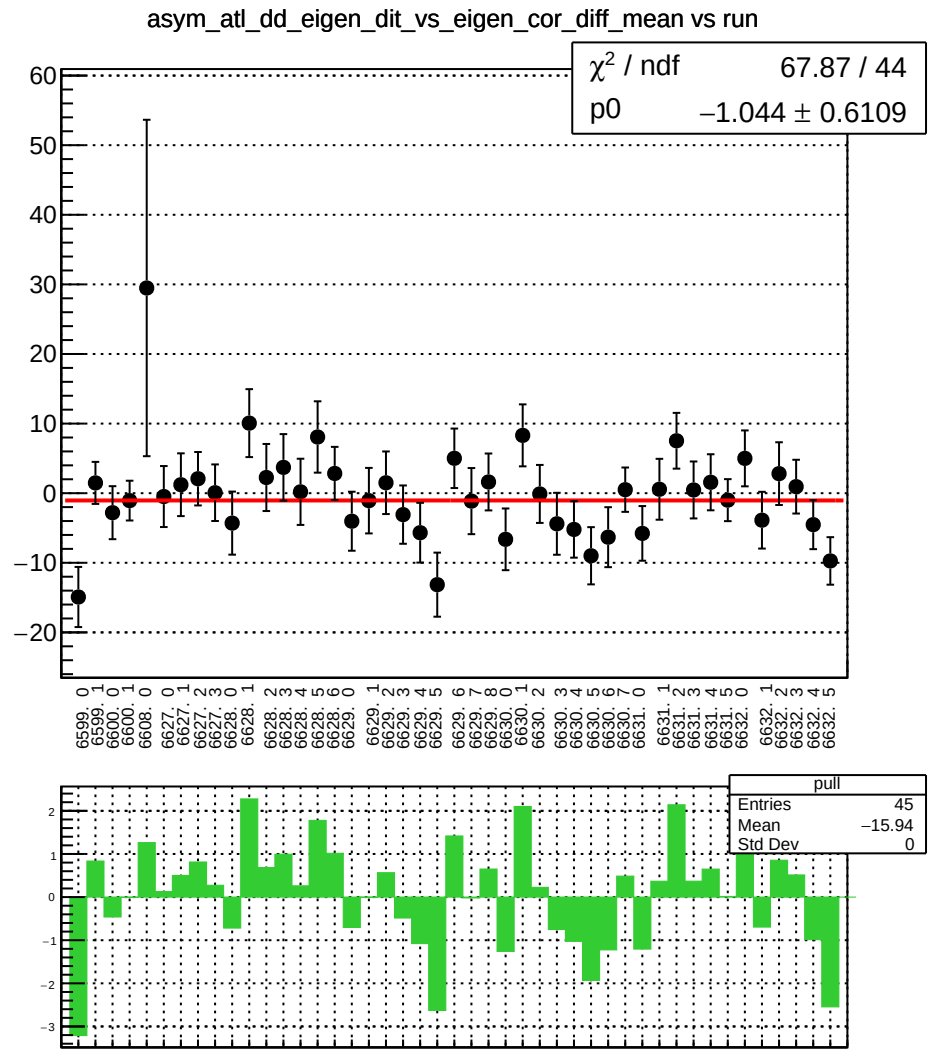

pull1D
Entries 44
Mean 0.07104
Std Dev 1.002

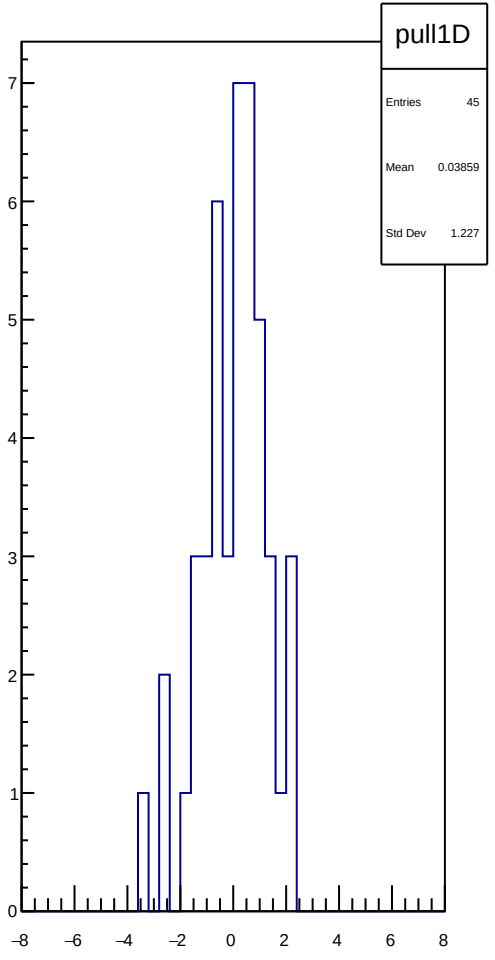

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.007e+05 / 43
p0 0.01621 ± 1.846e–05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

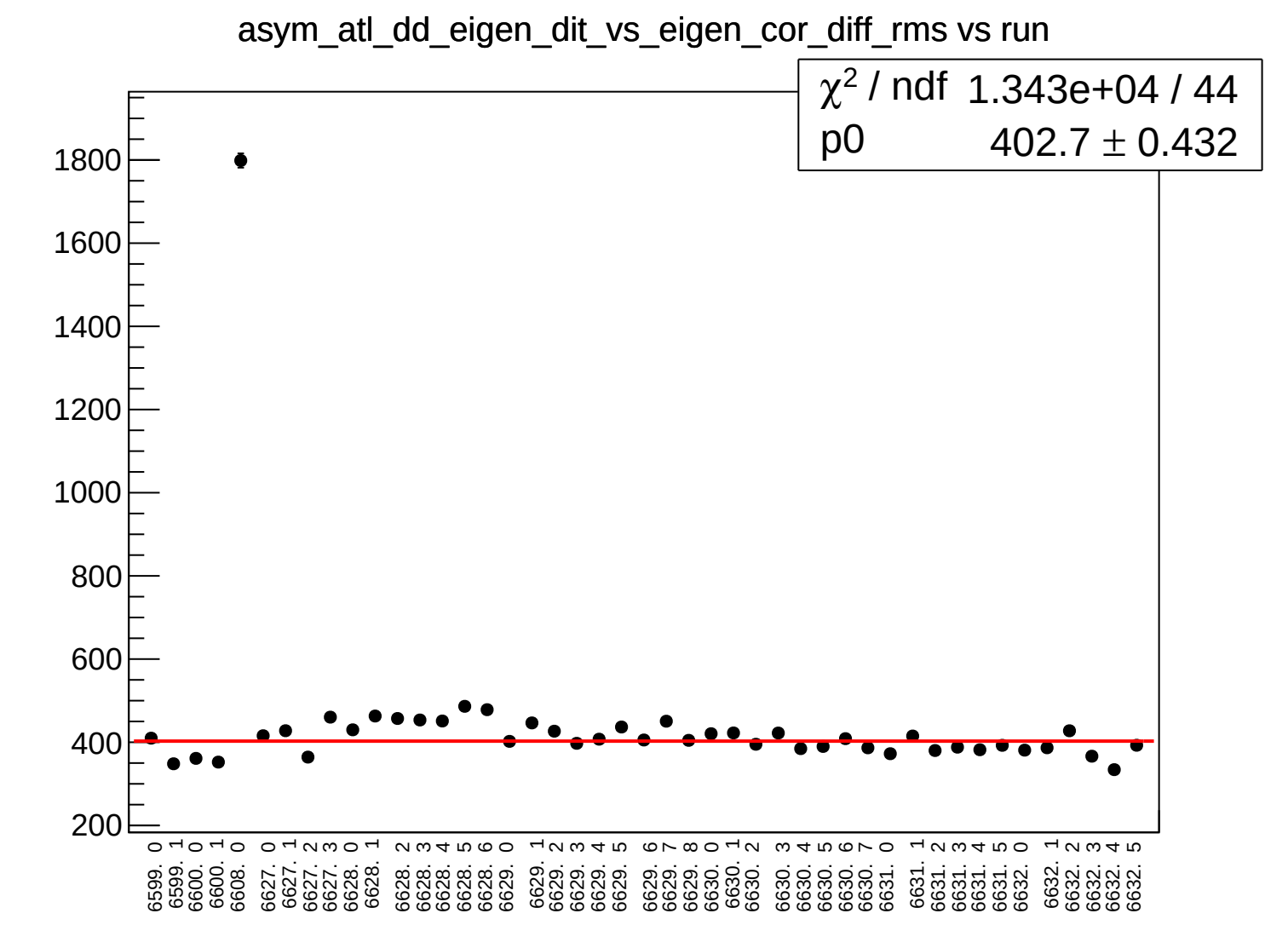

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.87 / 44
p0 −1.044 ± 0.6109
pull
Entries 45
Mean −15.94
Std Dev 0

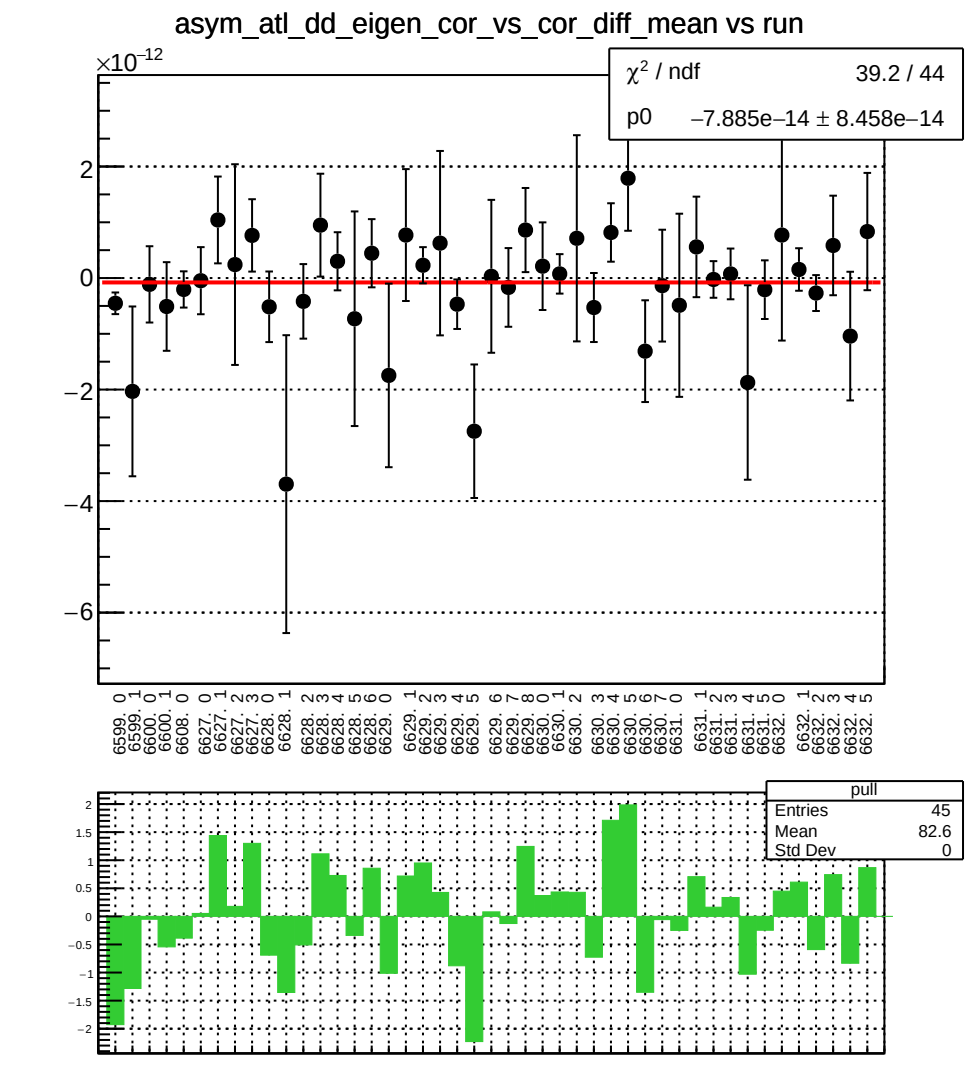

pull1D
Entries 45
Mean 0.03859
Std Dev 1.227

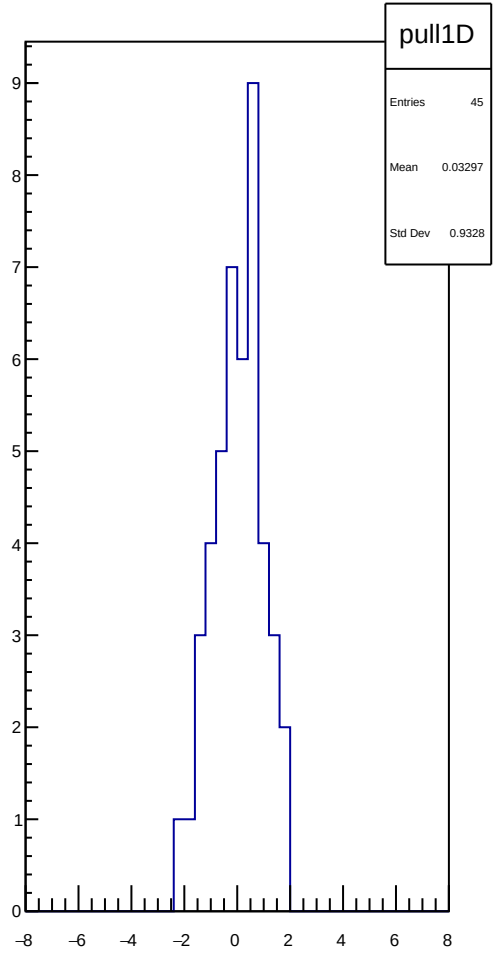

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.343e+04 / 44
p0 402.7 ± 0.432
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

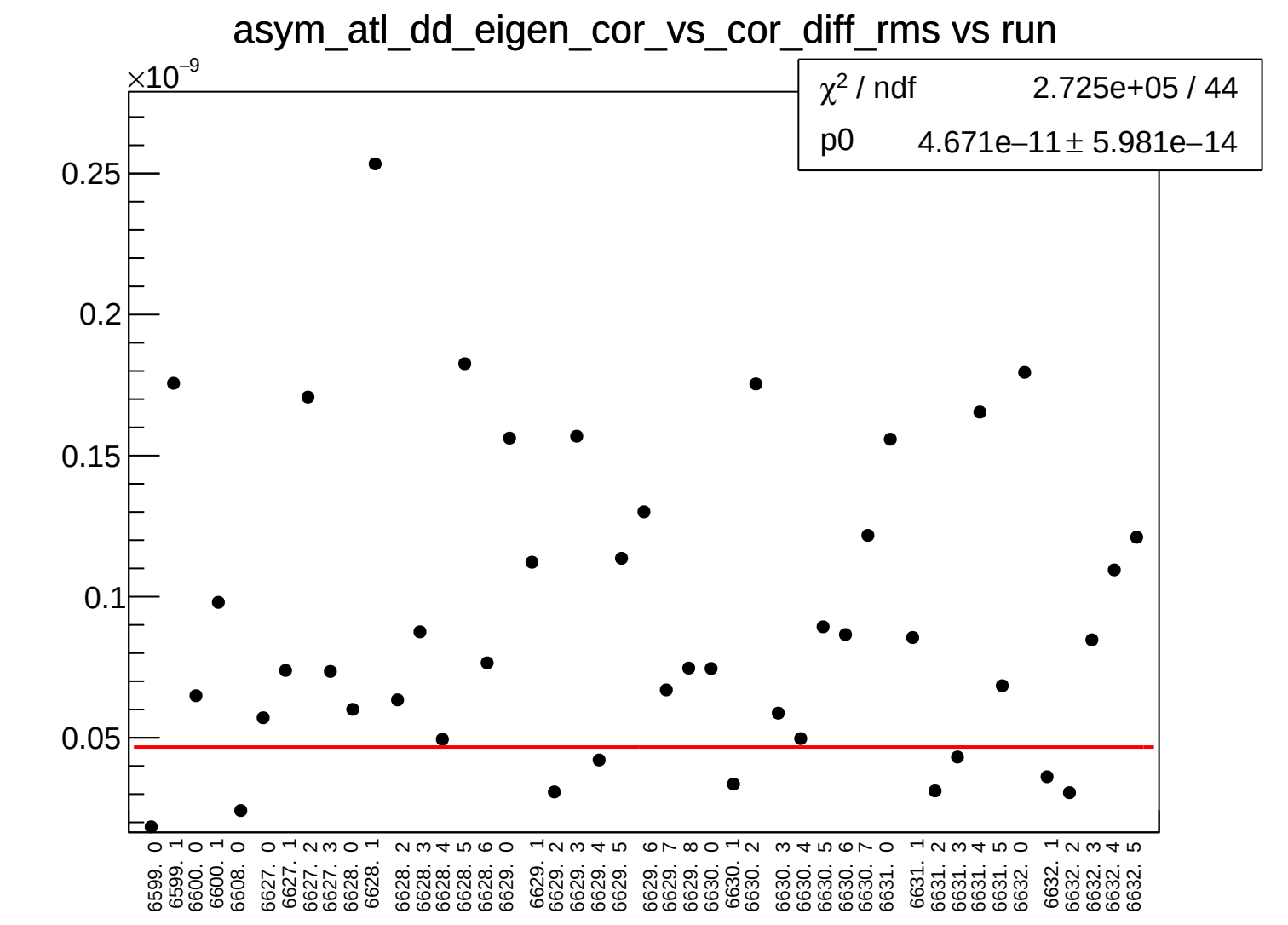

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.87 / 44
p0 −1.044 ± 0.6109
pull
Entries 45
Mean −15.94
Std Dev 0

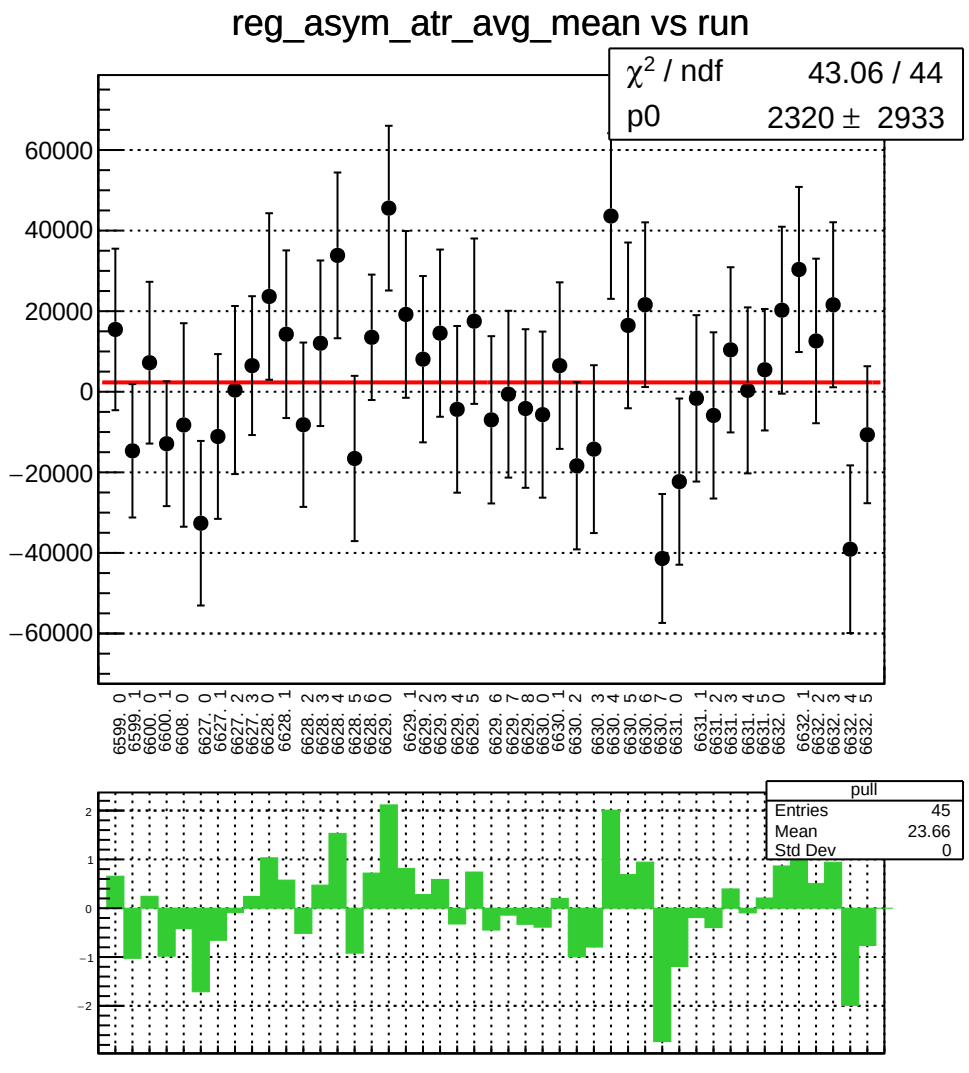

pull1D
Entries 45
Mean 0.03859
Std Dev 1.227


asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.343e+04 / 44
p0 402.7 ± 0.432
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 39.2 / 44
p0 −7.885e−14 ± 8.458e−14
pull
Entries 45
Mean 82.6
Std Dev 0


pull1D
Entries 45
Mean 0.03297
Std Dev 0.9328


asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.725e+05 / 44
p0 4.671e−11 ± 5.981e−14
0.25
0.2
0.15
0.1
0.05
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


reg_asym_atr_avg_mean vs run
χ² / ndf 43.06 / 44
p0 2320 ± 2933
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
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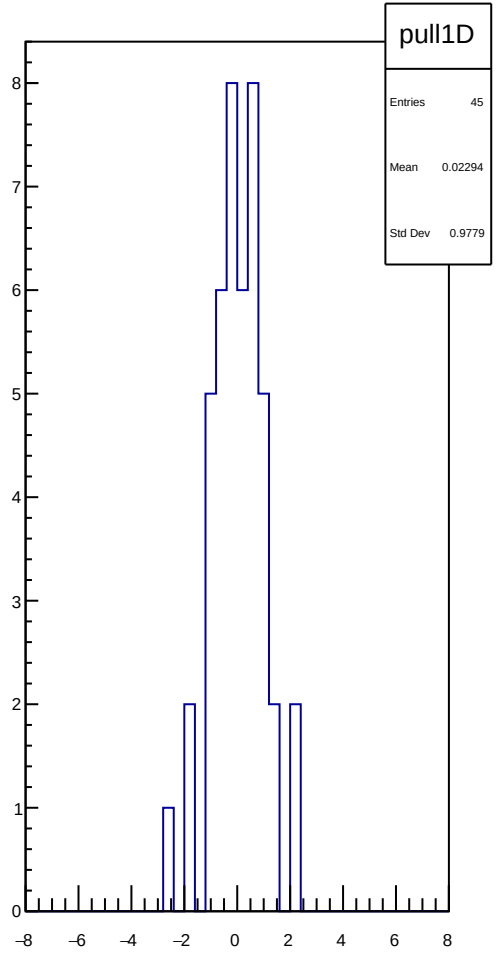
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 23.66
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.02294
Std Dev 0.9779
8
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5
4
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−4
−2
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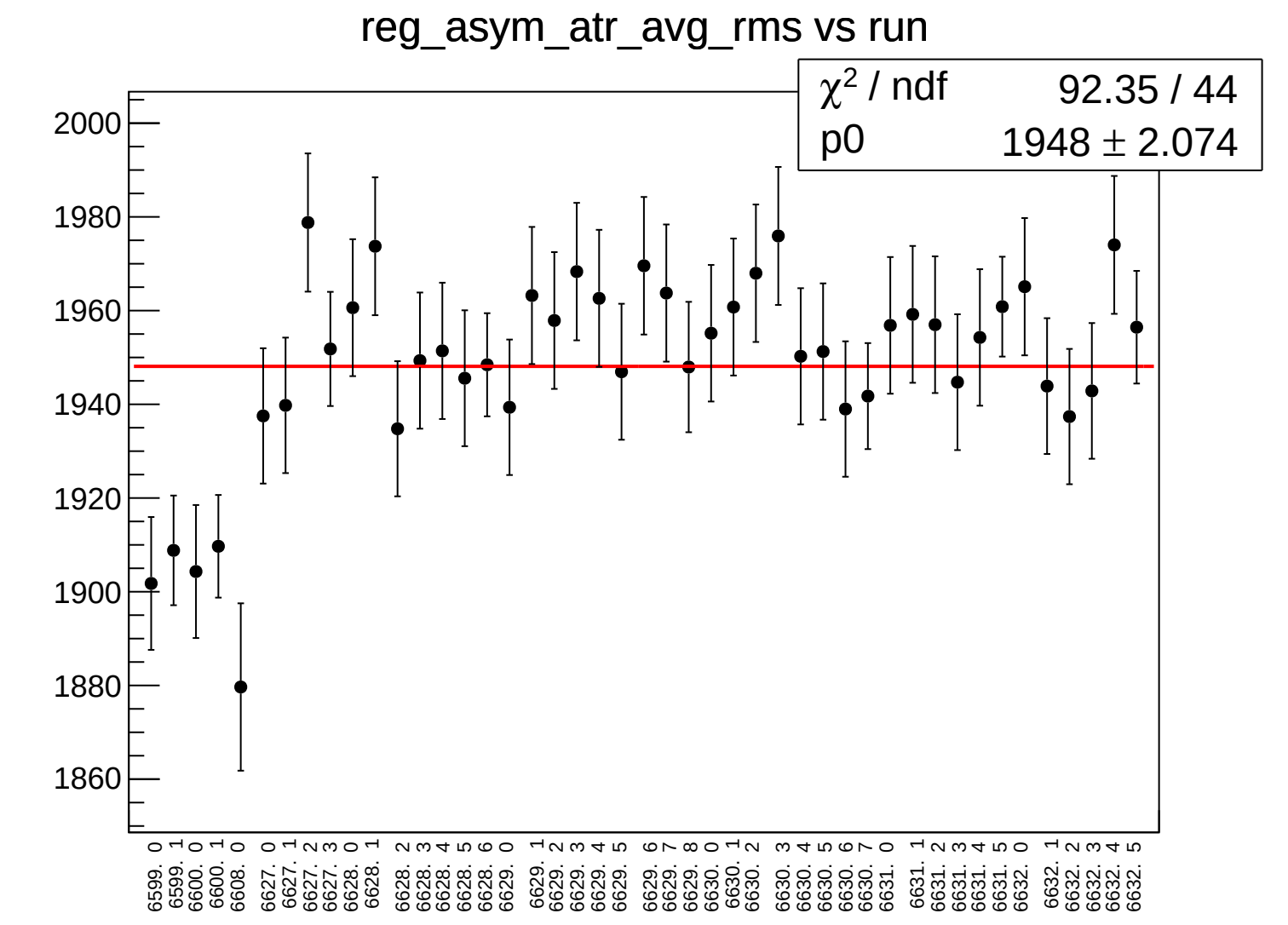
4
6
8


reg_asym_atr_avg_rms vs run
χ² / ndf 92.35 / 44
p0 1948 ± 2.074
2000
1980
1960
1940
1920
1900
1880
1860
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
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6629. 3
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6629. 5
6629. 6
6629. 7
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6630. 0
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6630. 3
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6630. 6
6630. 7
6631. 0
6631. 1
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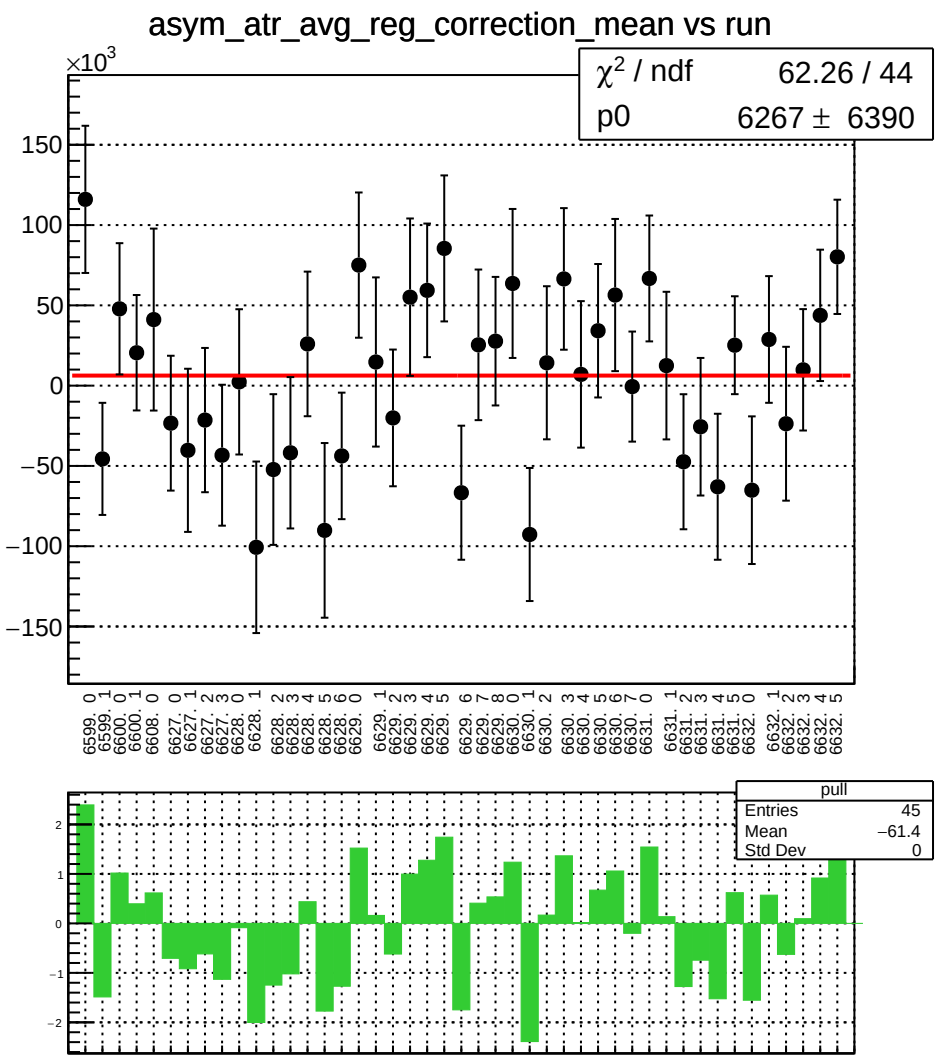
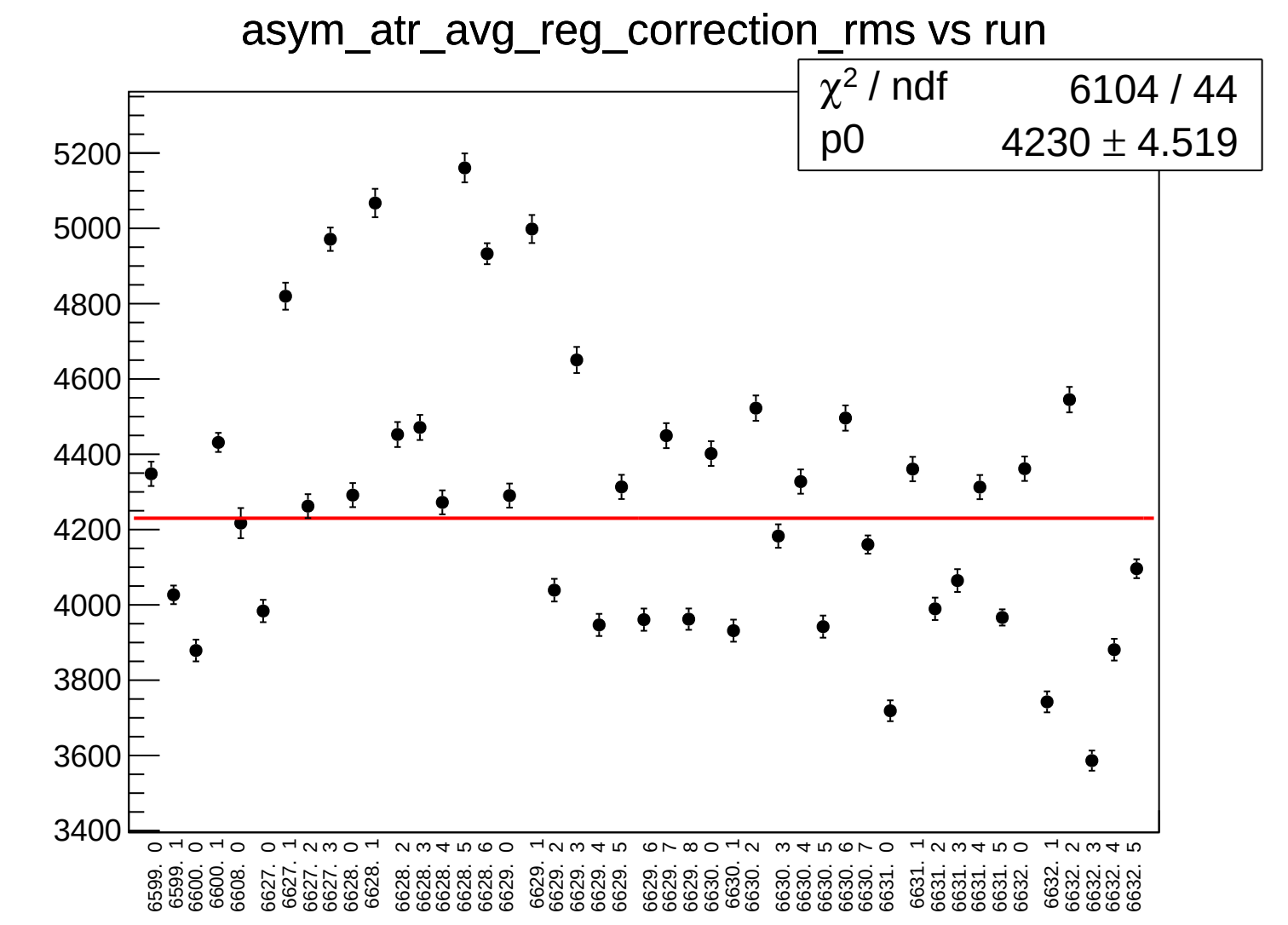

asym_atr_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 62.26 / 44
p0 6267 ± 6390
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −61.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02119
Std Dev 1.176
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 6104 / 44
p0 4230 ± 4.519
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
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6629. 0
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6631. 0
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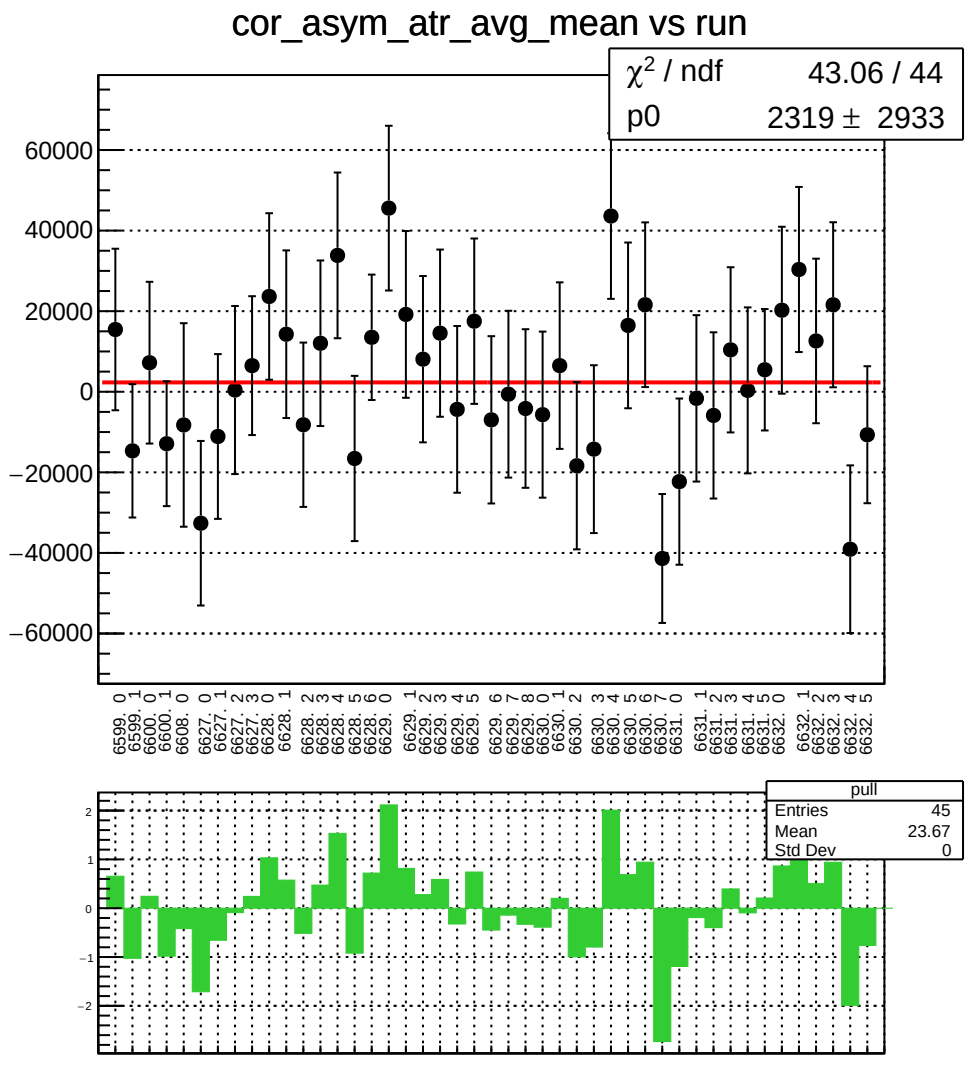
cor_asym_atr_avg_mean vs run
χ² / ndf 43.06 / 44
p0 2319 ± 2933
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
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6629. 4
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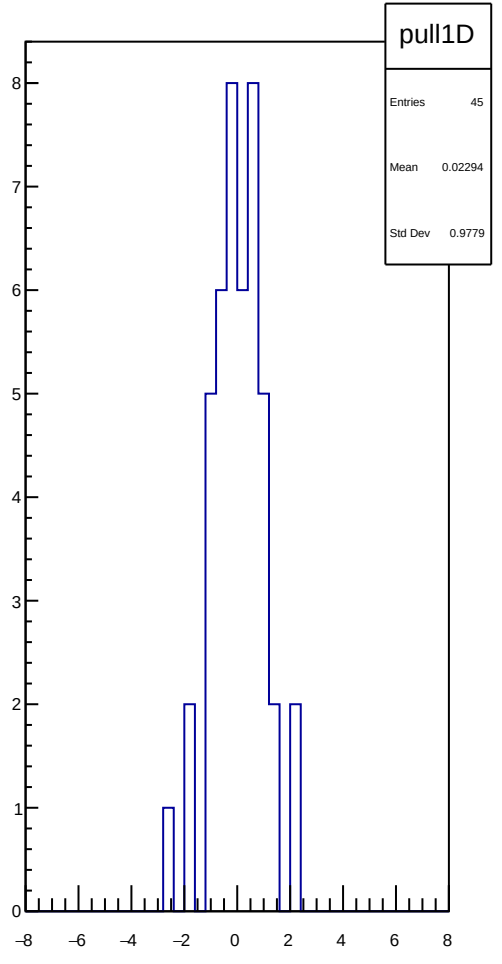
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 23.67
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.02294
Std Dev 0.9779
8
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5
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1
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−4
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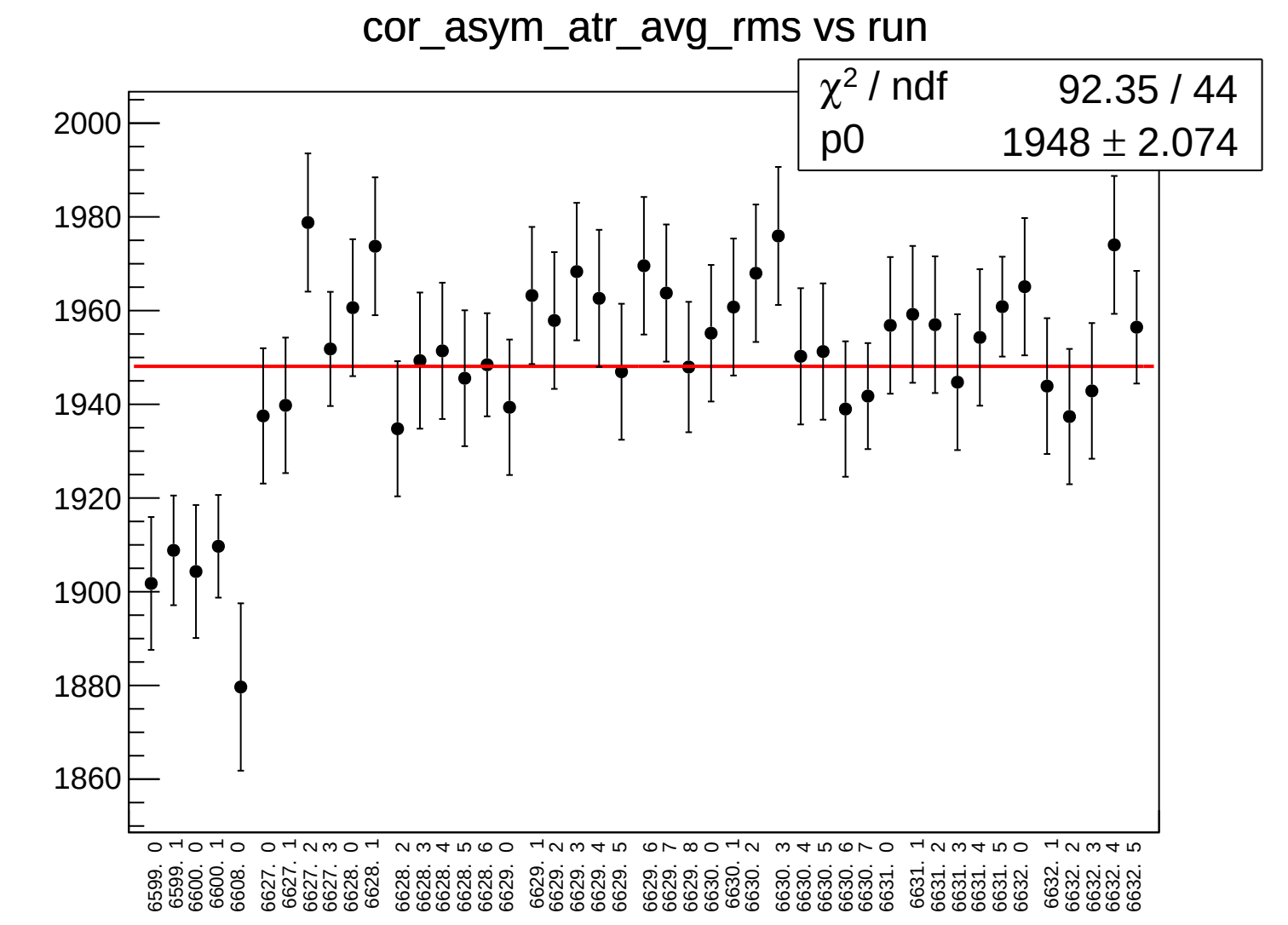
2
4
6
8


cor_asym_atr_avg_rms vs run
χ² / ndf 92.35 / 44
p0 1948 ± 2.074
2000
1980
1960
1940
1920
1900
1880
1860
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
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6629. 6
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6630. 6
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6631. 1
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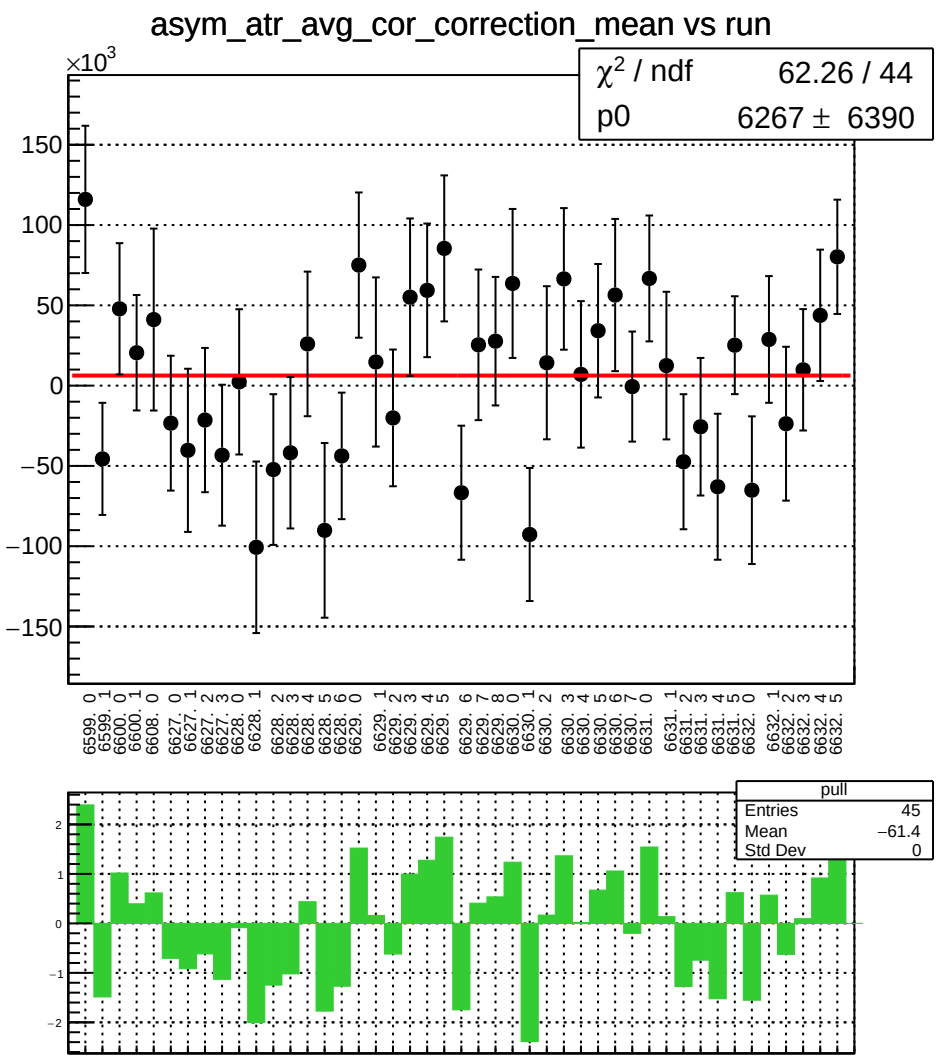
asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 62.26 / 44
p0 6267 ± 6390
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6628. 6
6629. 0
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6631. 5
6632. 0
6632. 1
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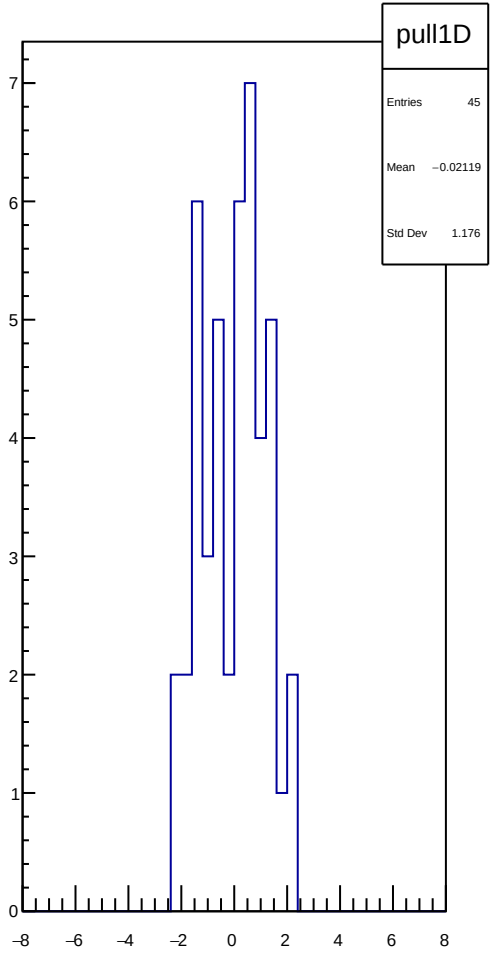
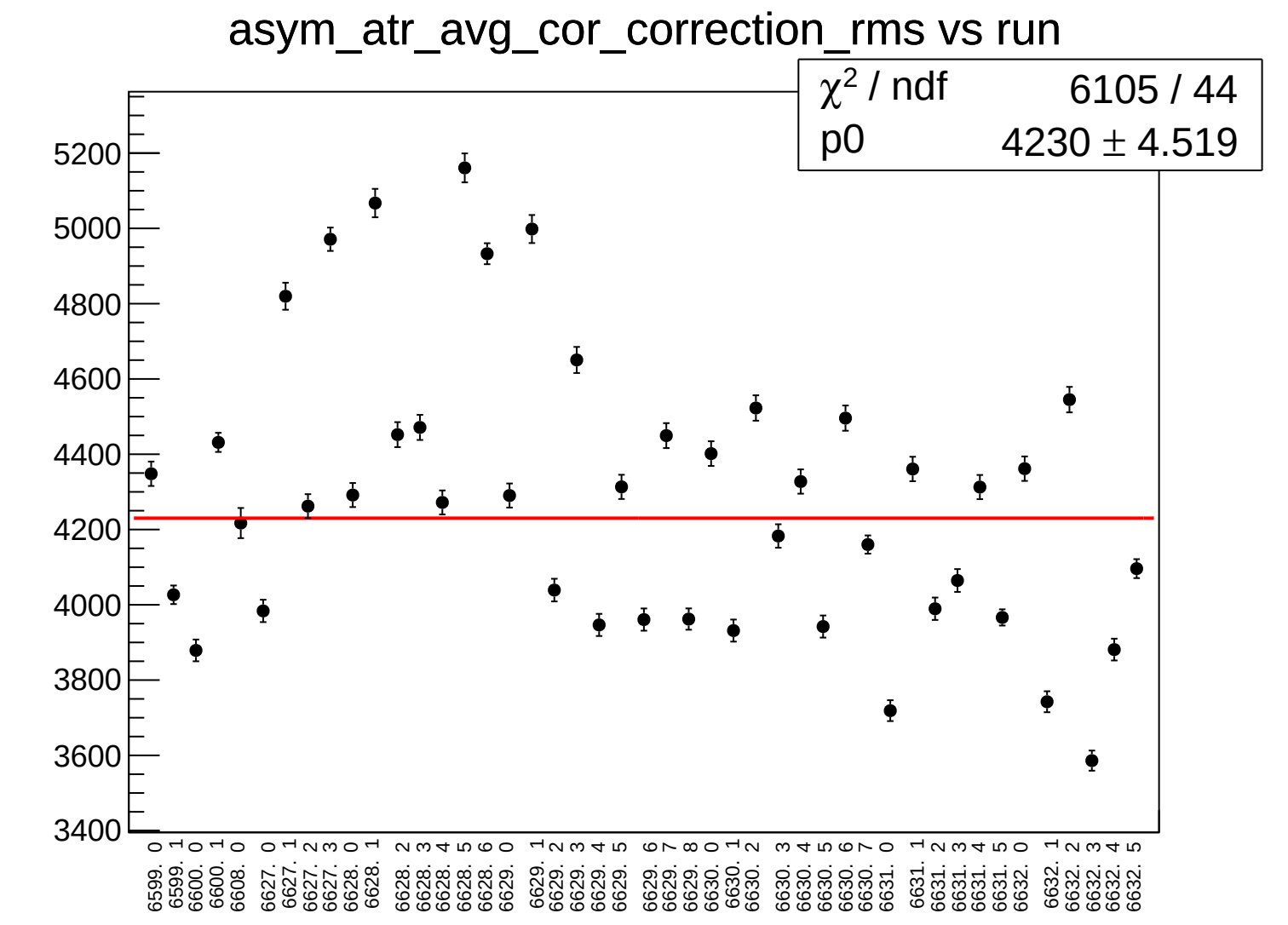
6632. 4
6632. 5
pull
Entries 45
Mean −61.4
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.02119
Std Dev 1.176
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 6105 / 44
p0 4230 ± 4.519
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 3
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6632. 2
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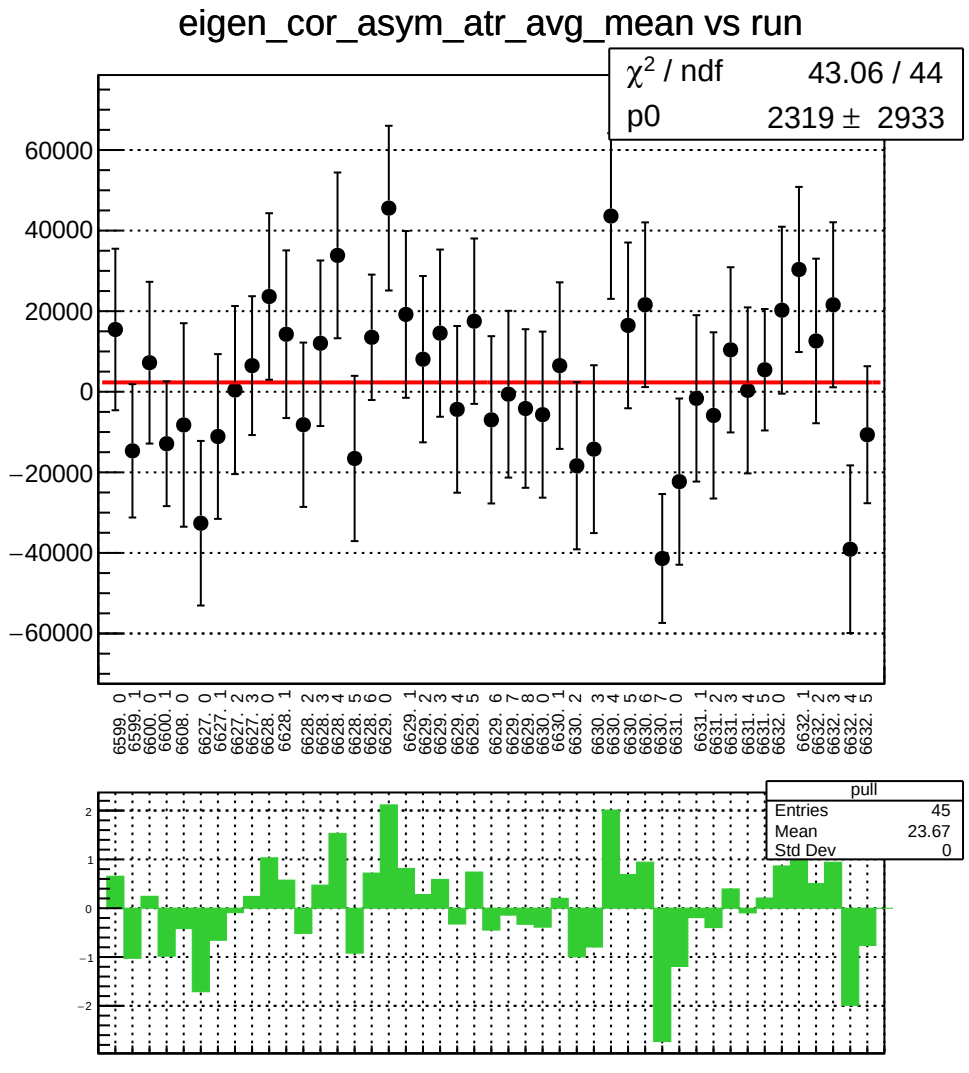
eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 43.06 / 44
p0 2319 ± 2933
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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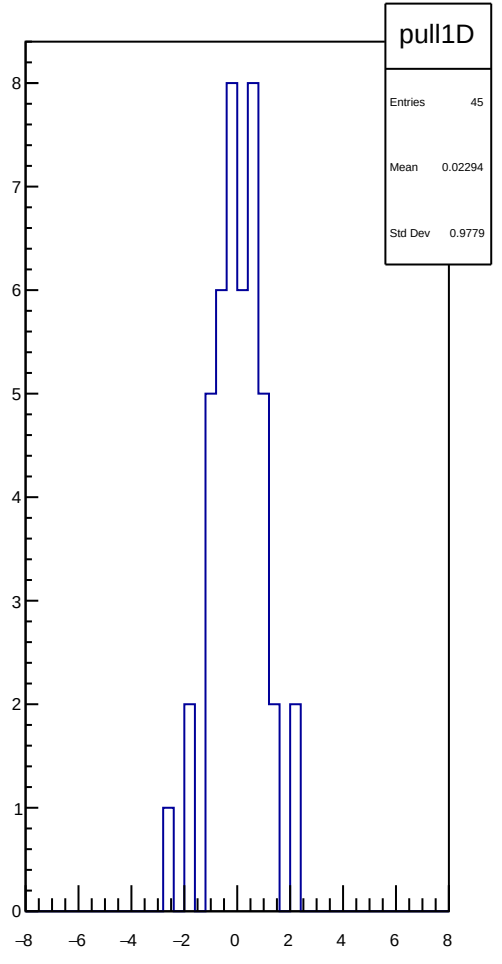
pull
Entries 45
Mean 23.67
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.02294
Std Dev 0.9779
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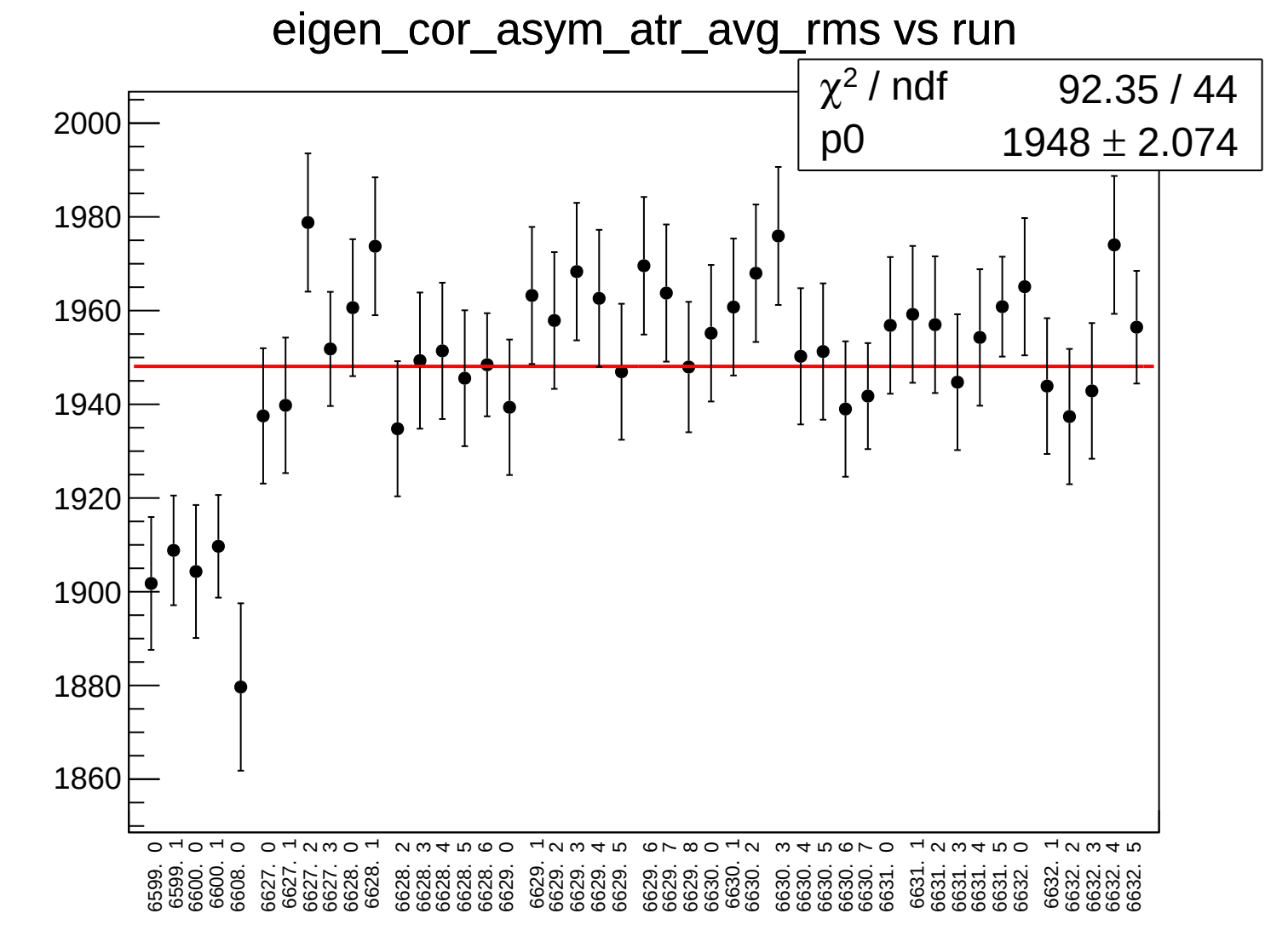
eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 92.35 / 44
p0 1948 ± 2.074
2000
1980
1960
1940
1920
1900
1880
1860
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 2
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6629. 0
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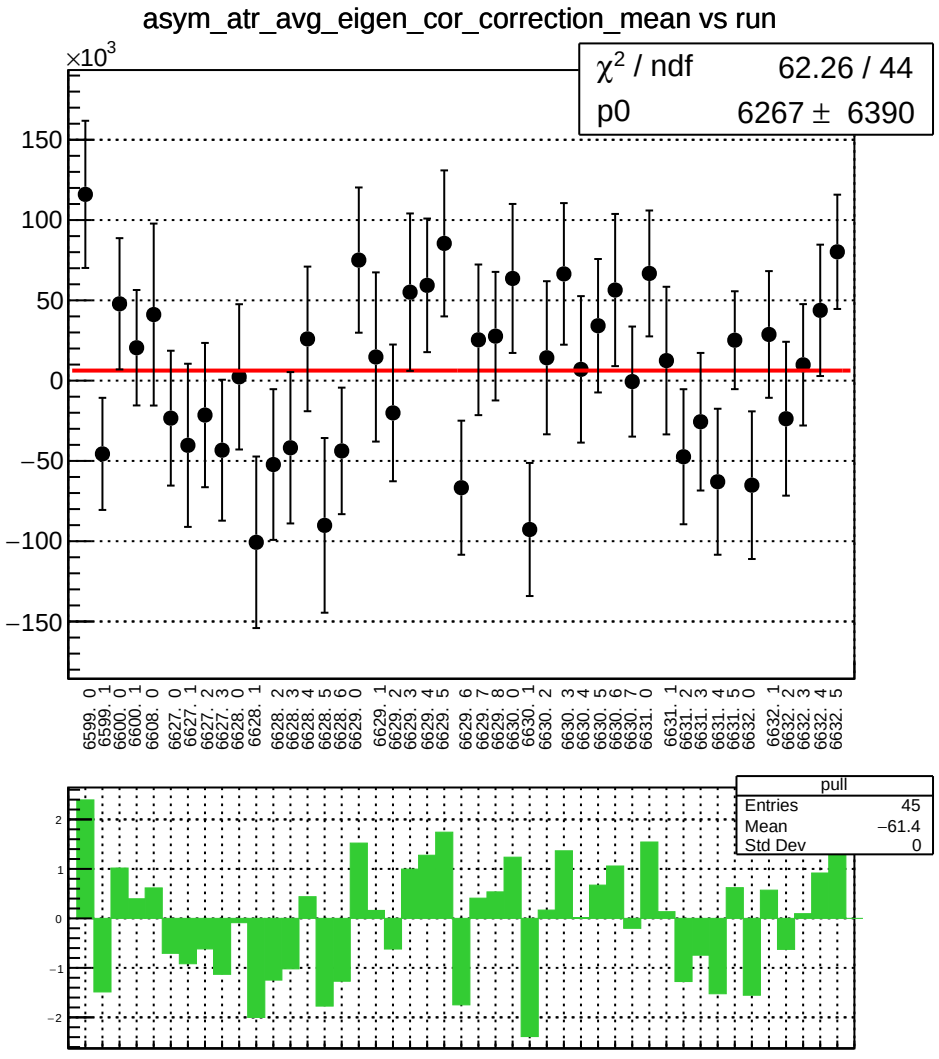
6632. 5


asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 62.26 / 44
p0 6267 ± 6390
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6630. 0
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6630. 2
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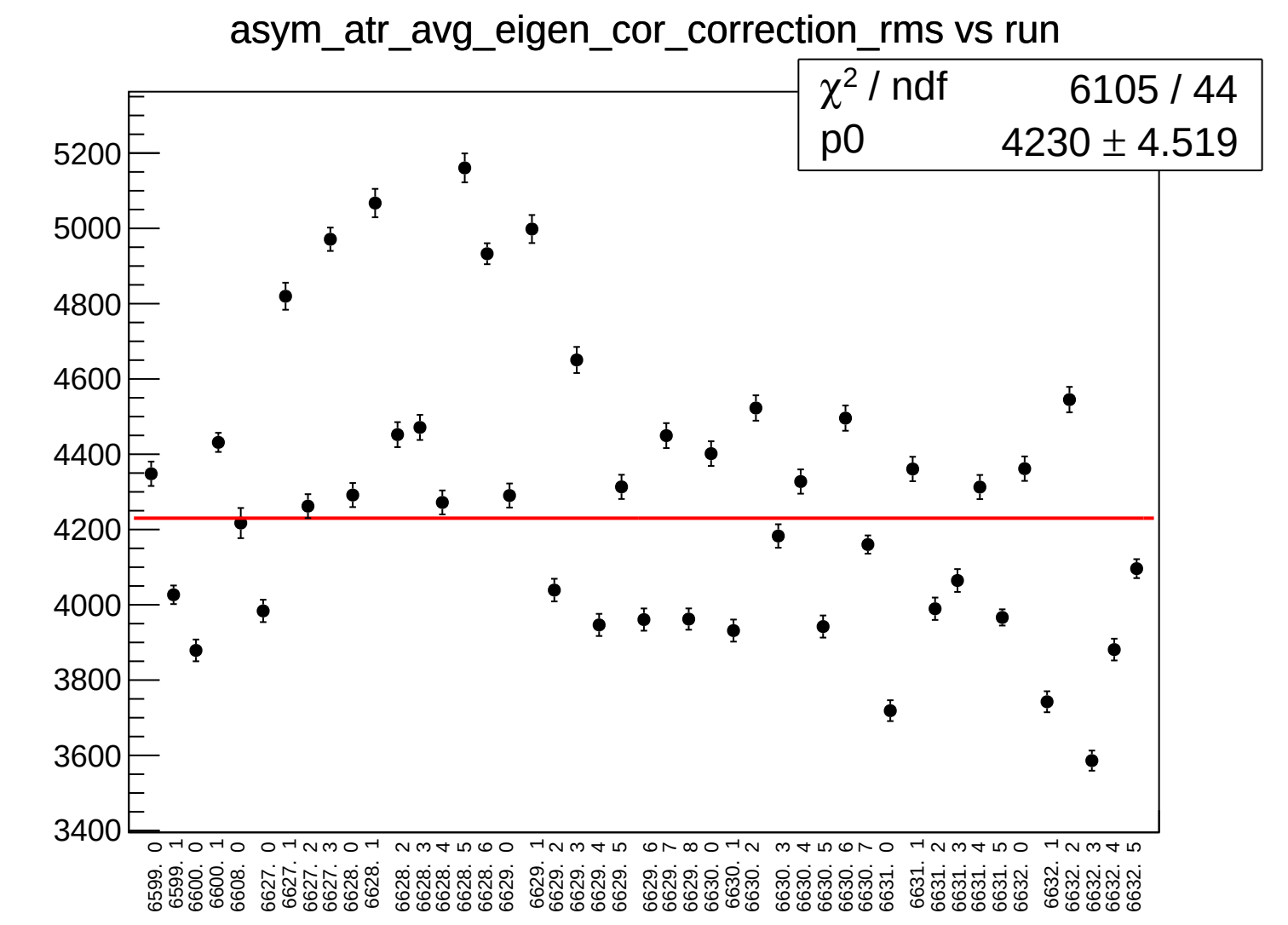
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −61.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02119
Std Dev 1.176
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 6105 / 44
p0 4230 ± 4.519
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
6599. 0
6599. 1
6600. 0
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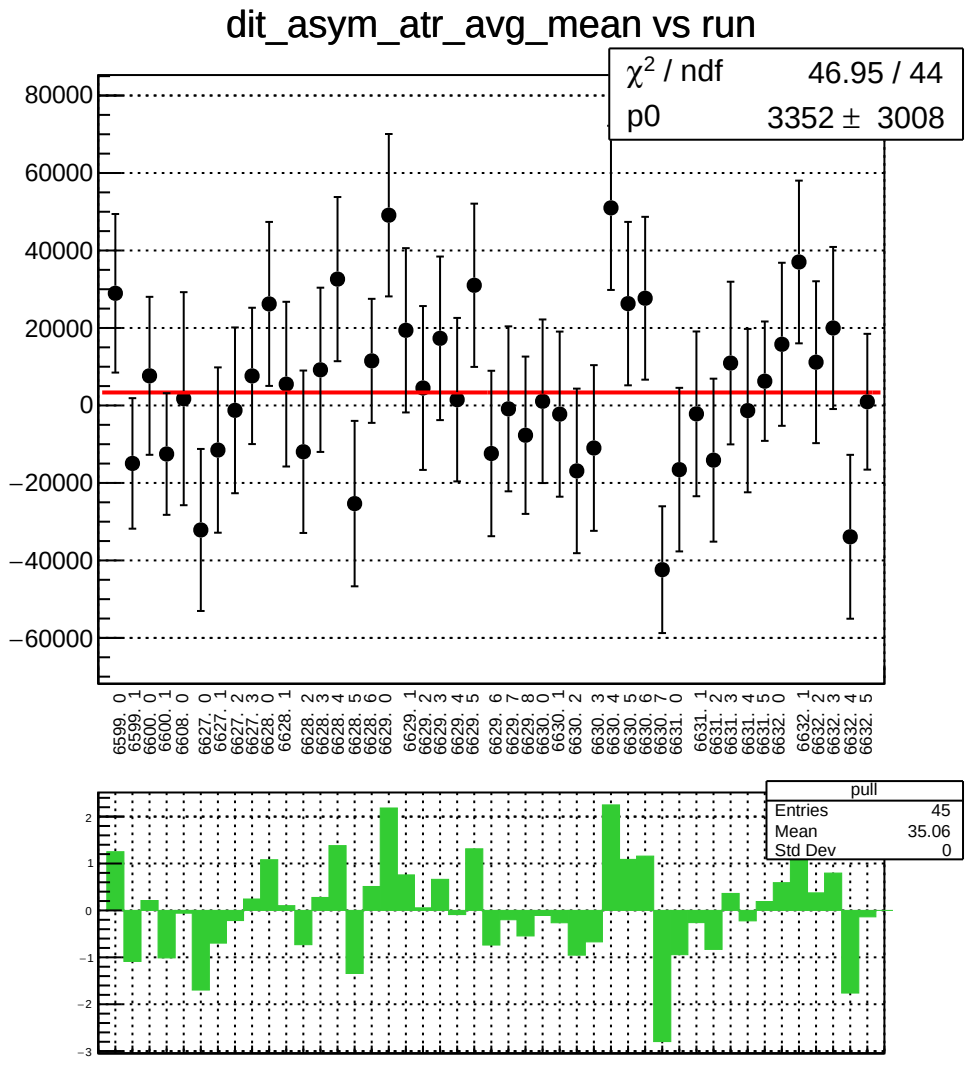
6632. 5


dit_asym_atr_avg_mean vs run
χ² / ndf 46.95 / 44
p0 3352 ± 3008
80000
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
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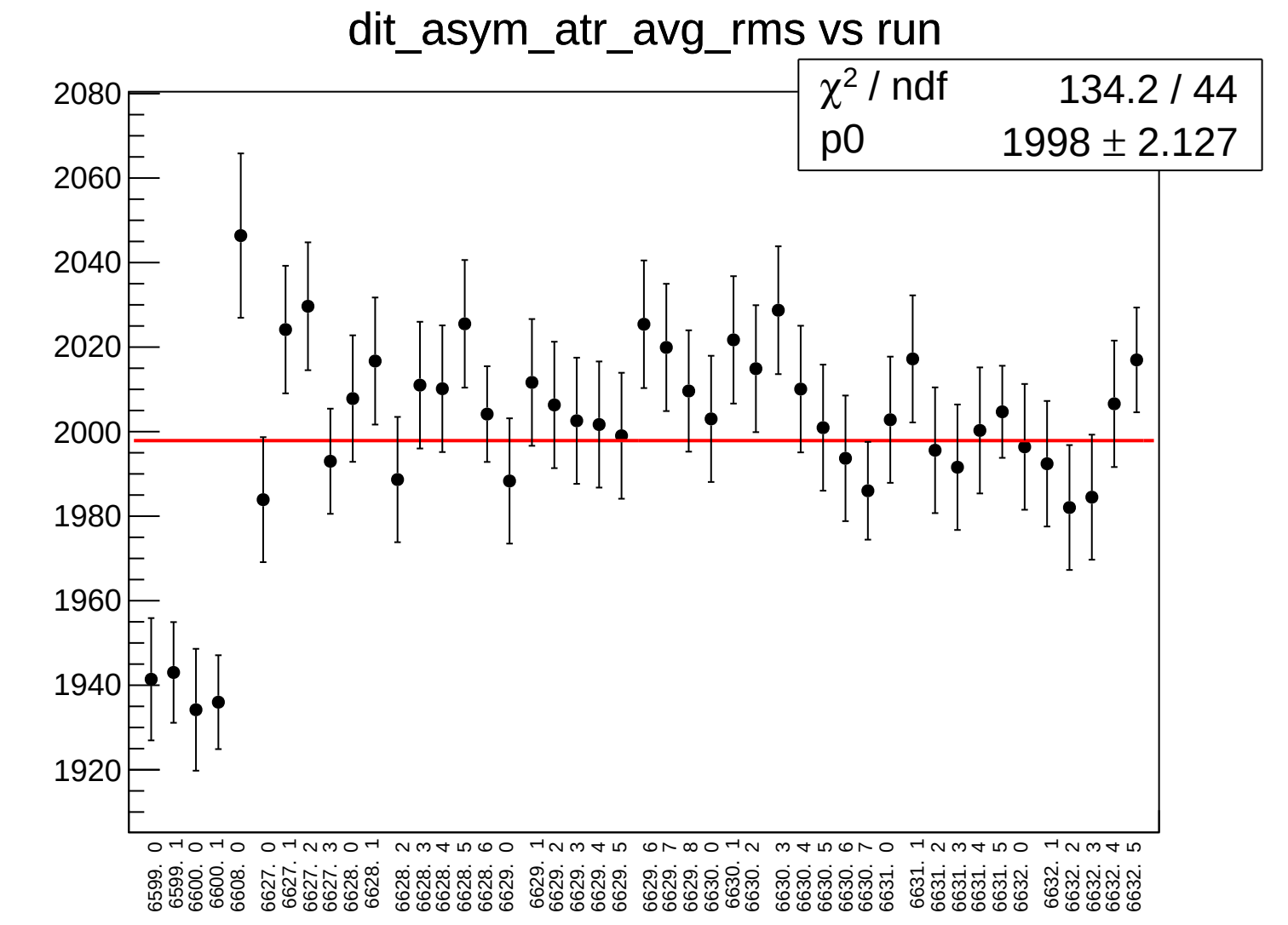
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 35.06
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.02407
Std Dev 1.021
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atr_avg_rms vs run
χ² / ndf 134.2 / 44
p0 1998 ± 2.127
2080
2060
2040
2020
2000
1980
1960
1940
1920
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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6629. 0
6629. 1
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6629. 7
6629. 8
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6630. 7
6631. 0
6631. 1
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6631. 4
6631. 5
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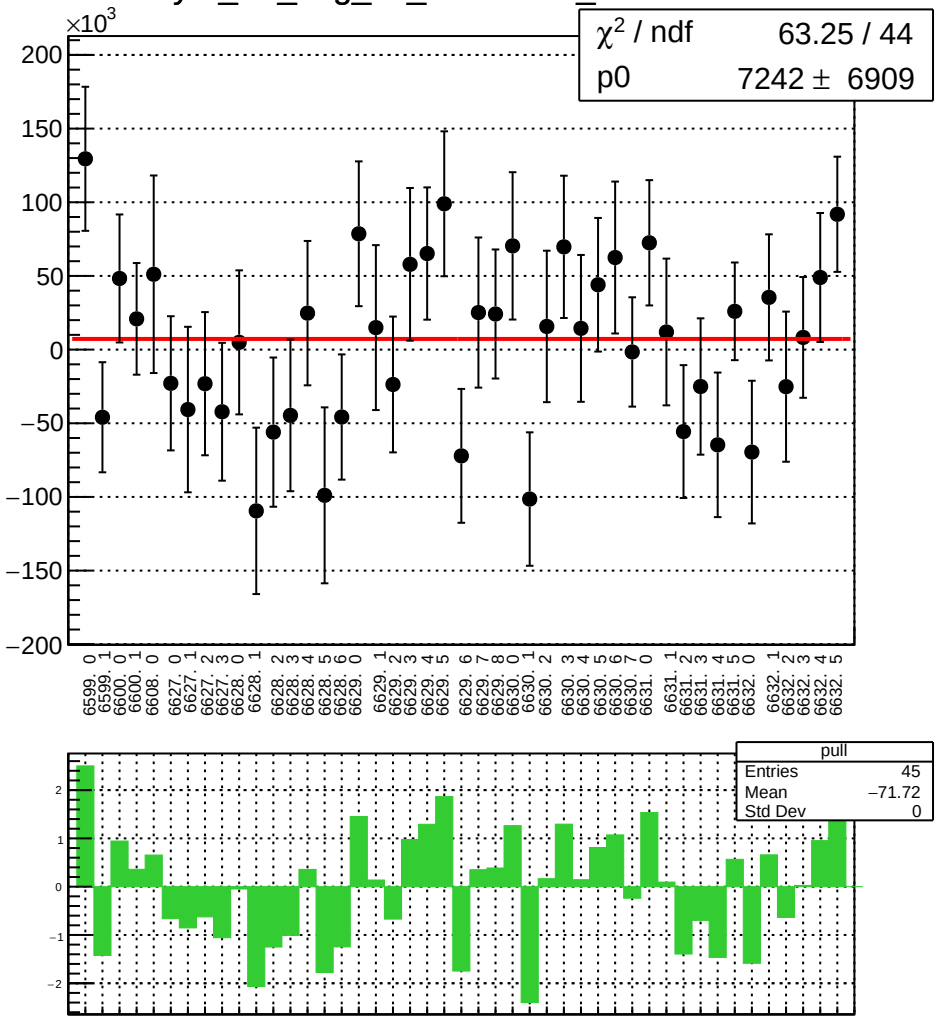
6632. 4
6632. 5


asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 63.25 / 44
p0 7242 ± 6909
200
150
100
50
0
−50
−100
−150
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6629. 0
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6629. 6
6629. 7
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6630. 0
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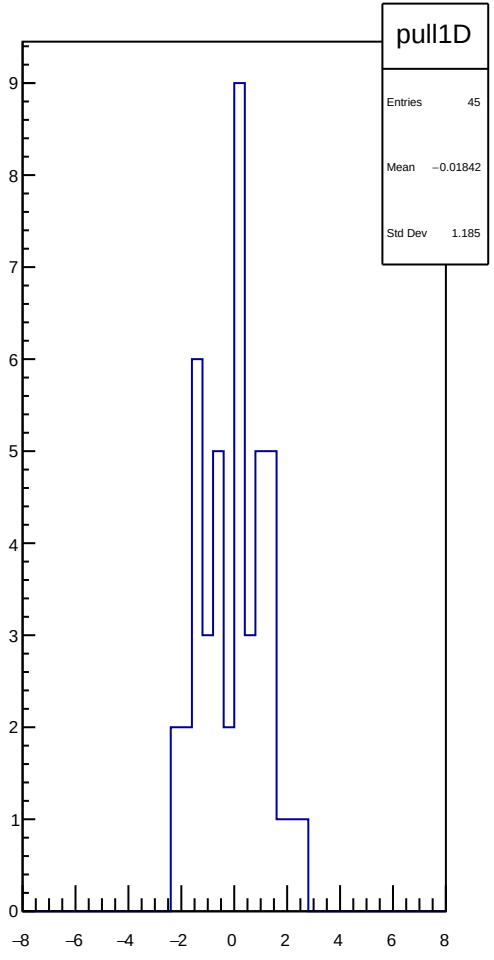
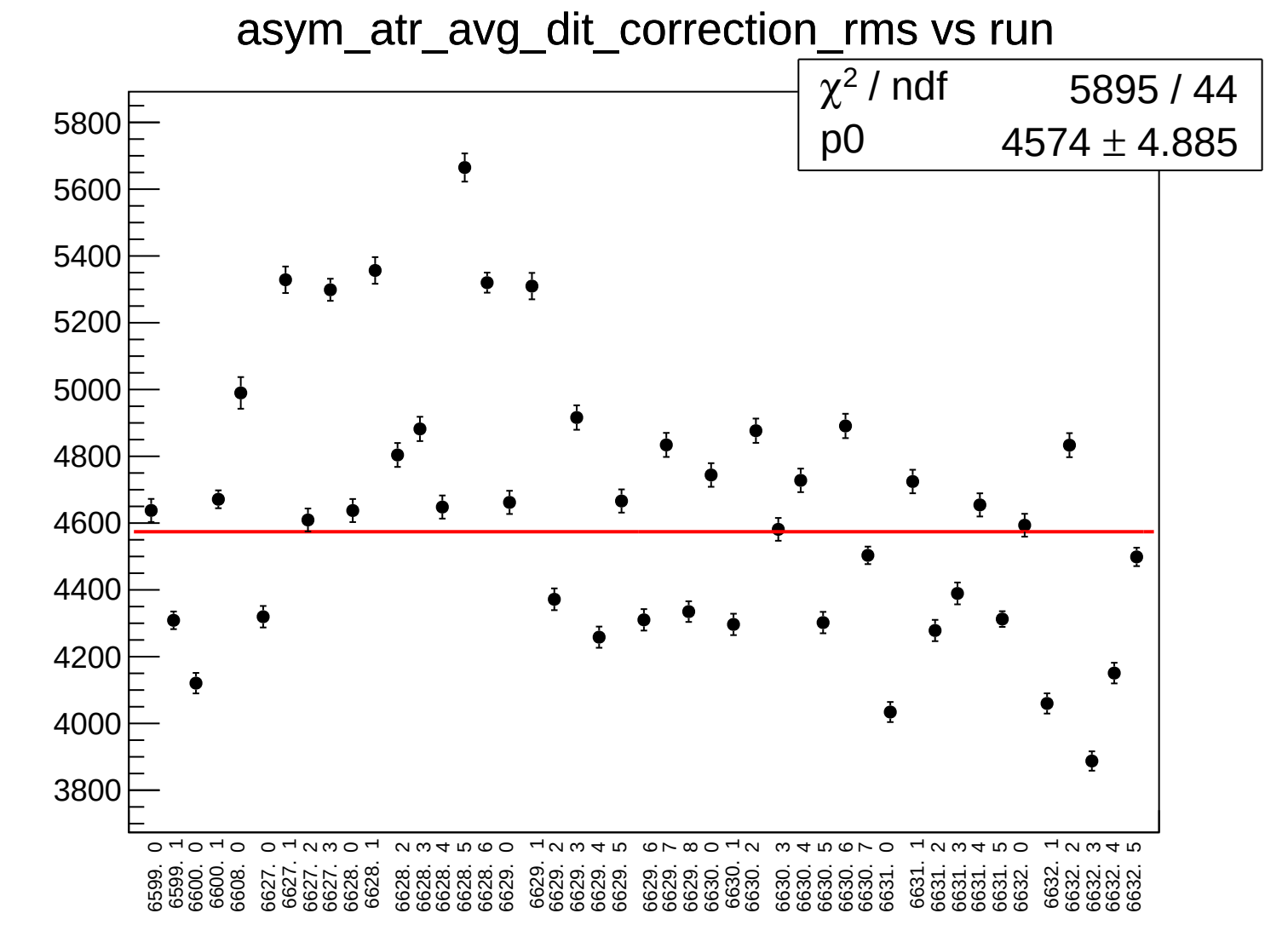
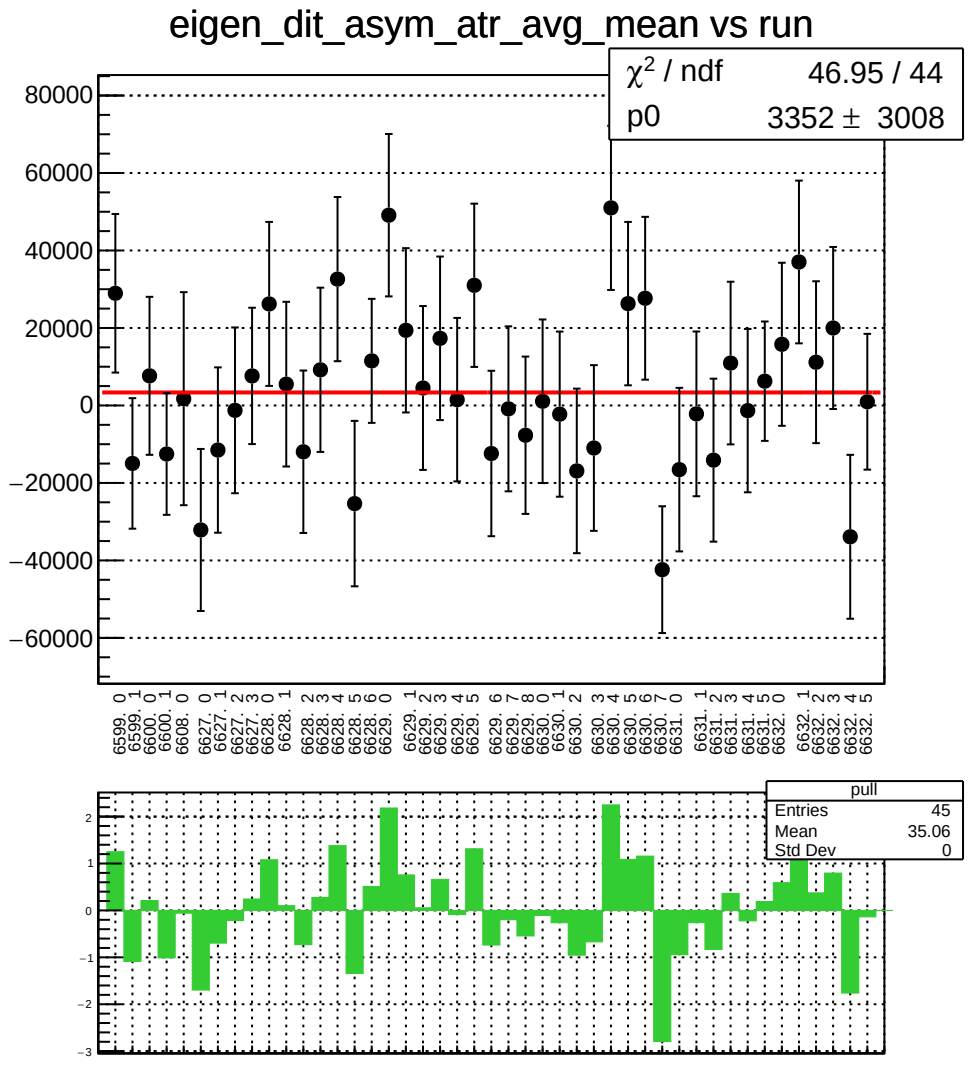
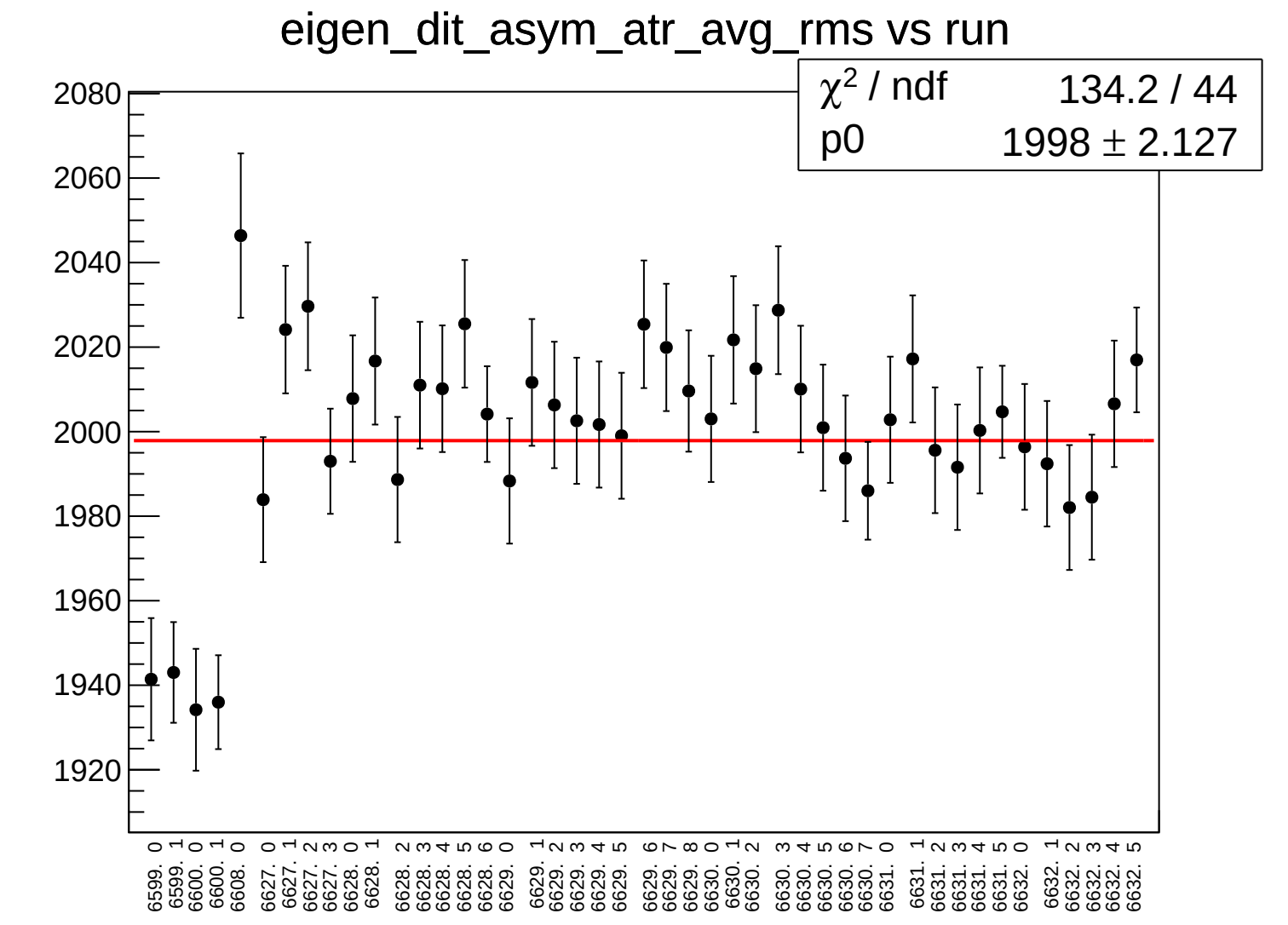
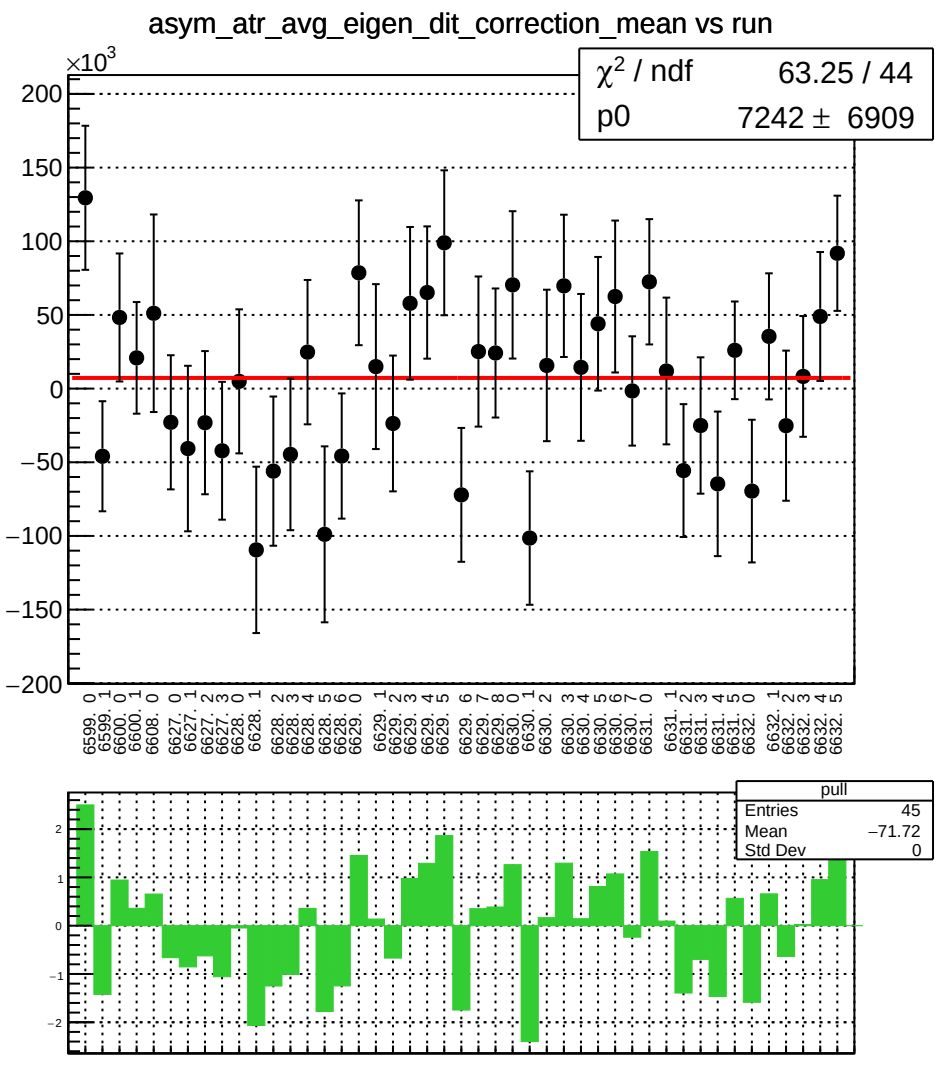
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −71.72
Std Dev 0
2
1
0
−1
−2

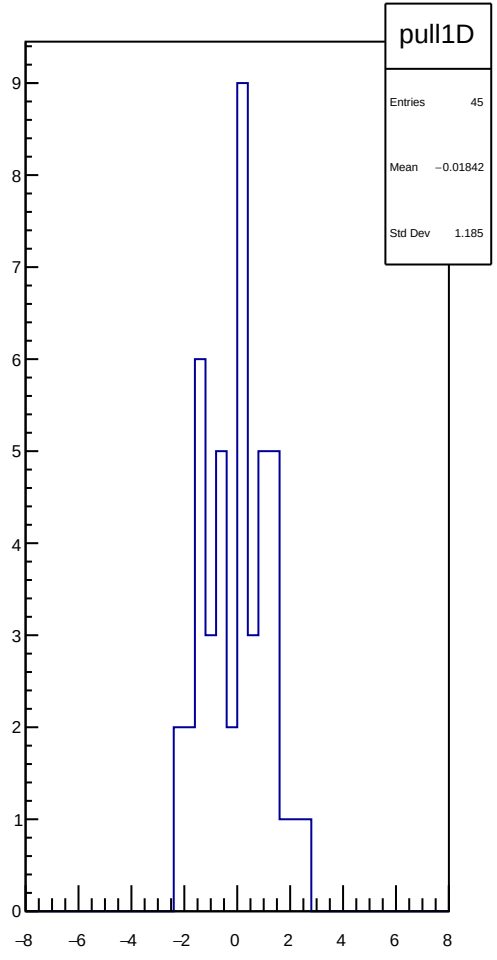

pull1D
Entries 45
Mean −0.01842
Std Dev 1.185
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

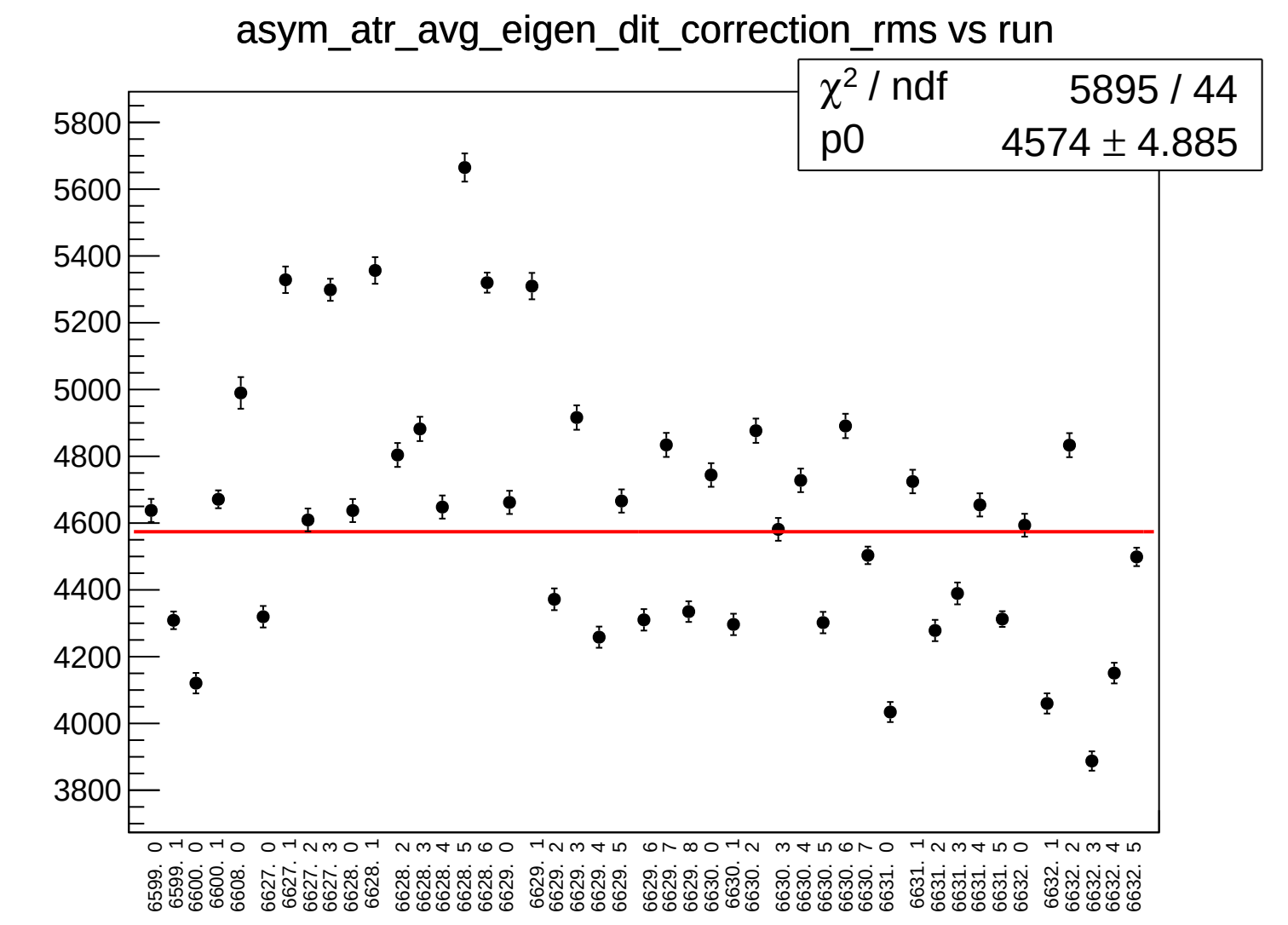

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 5895 / 44
p0 4574 ± 4.885
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

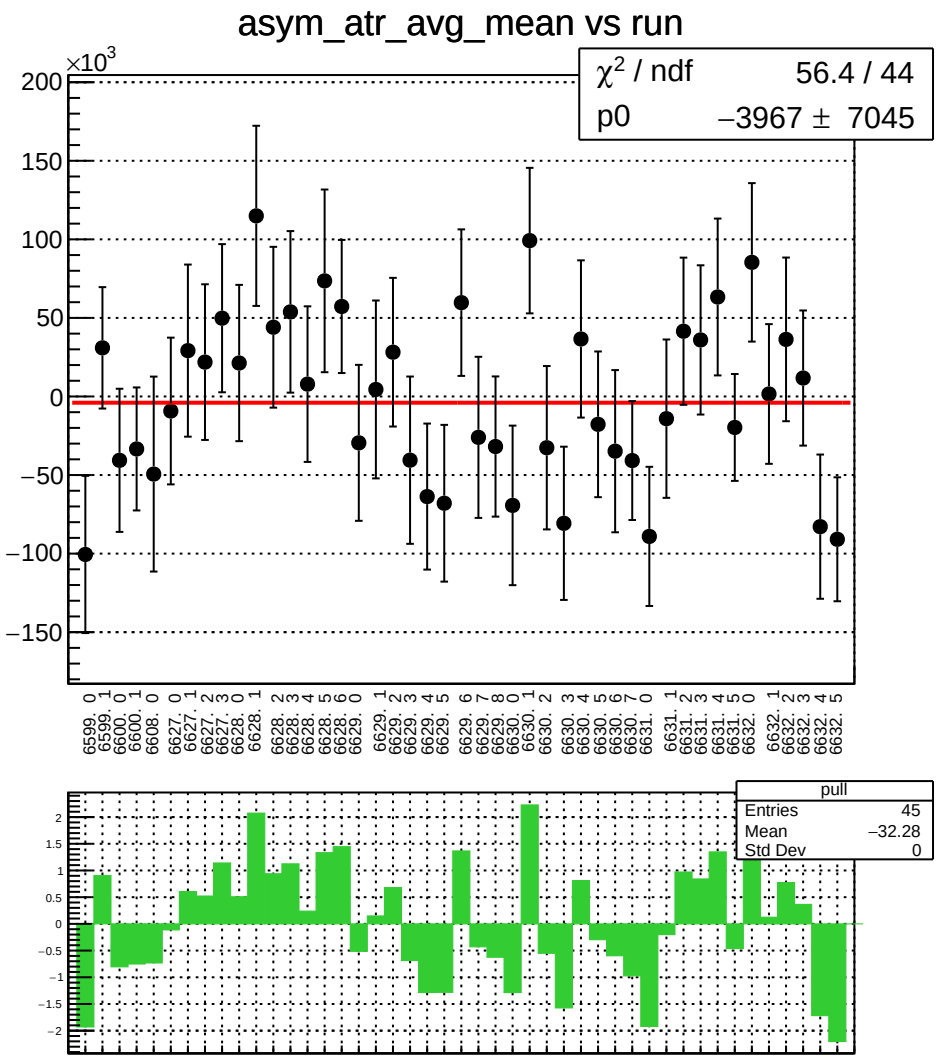

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 46.95 / 44
p0 3352 ± 3008
80000
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 35.06
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.02407
Std Dev 1.021
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

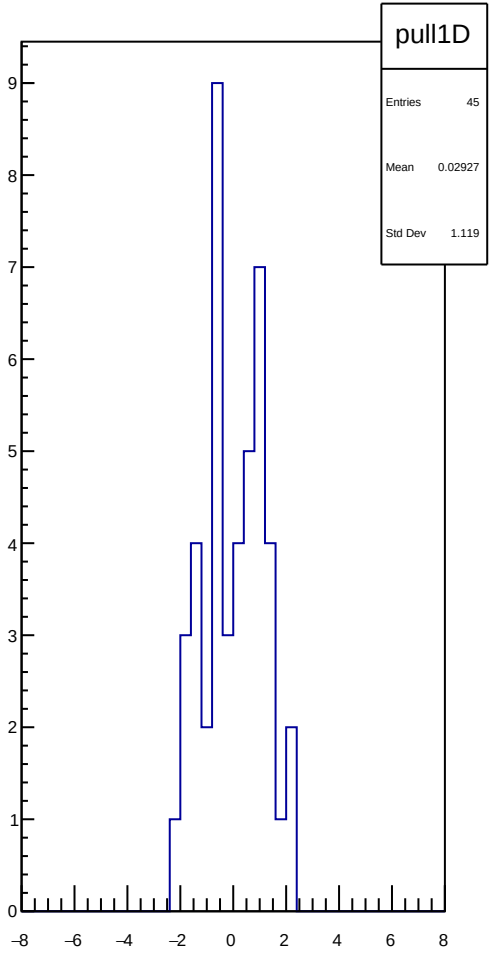

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 134.2 / 44
p0 1998 ± 2.127
2080
2060
2040
2020
2000
1980
1960
1940
1920
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

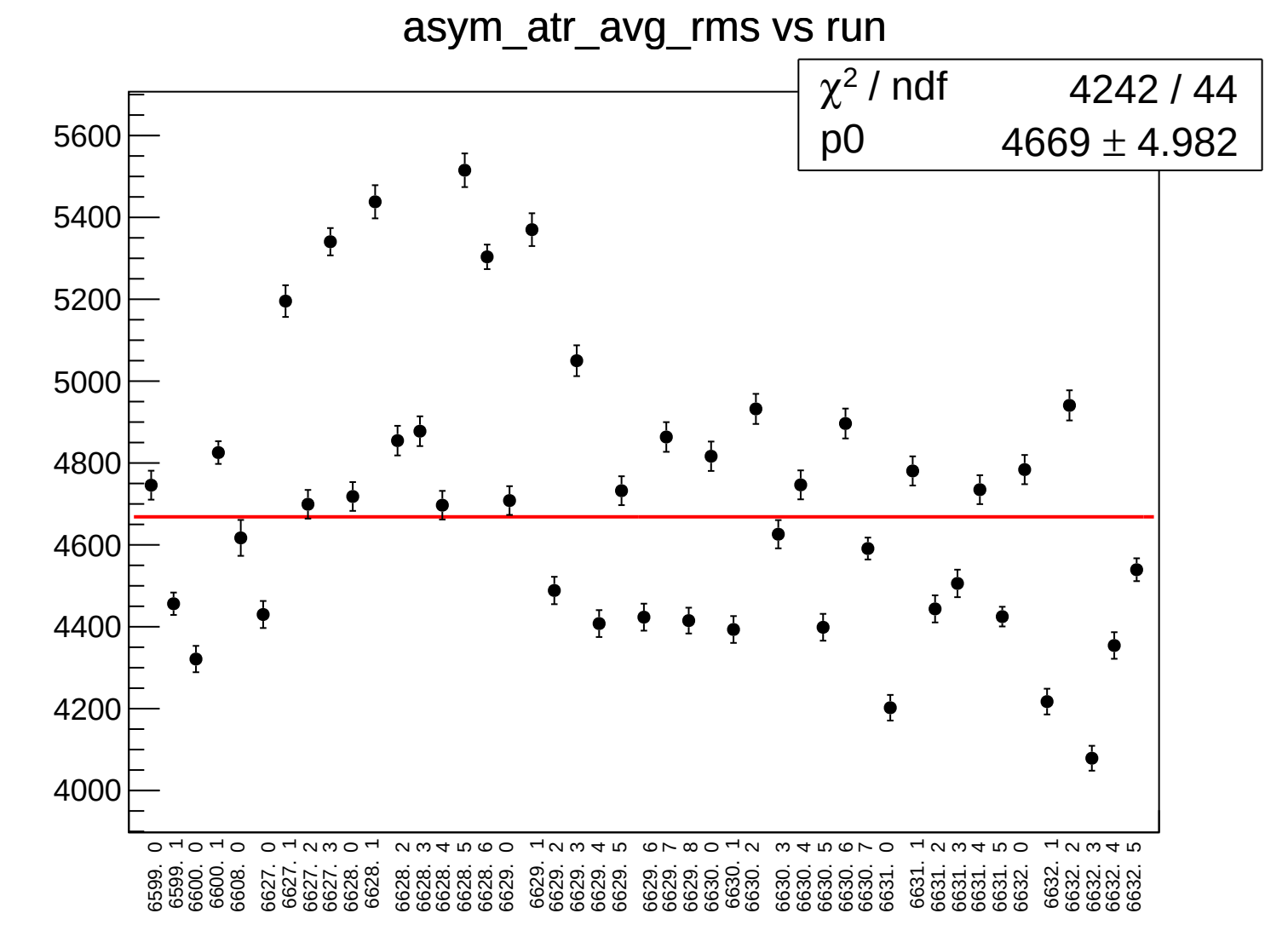

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 63.25 / 44
p0 7242 ± 6909
200
150
100
50
0
−50
−100
−150
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −71.72
Std Dev 0
2
1
0
−1
−2

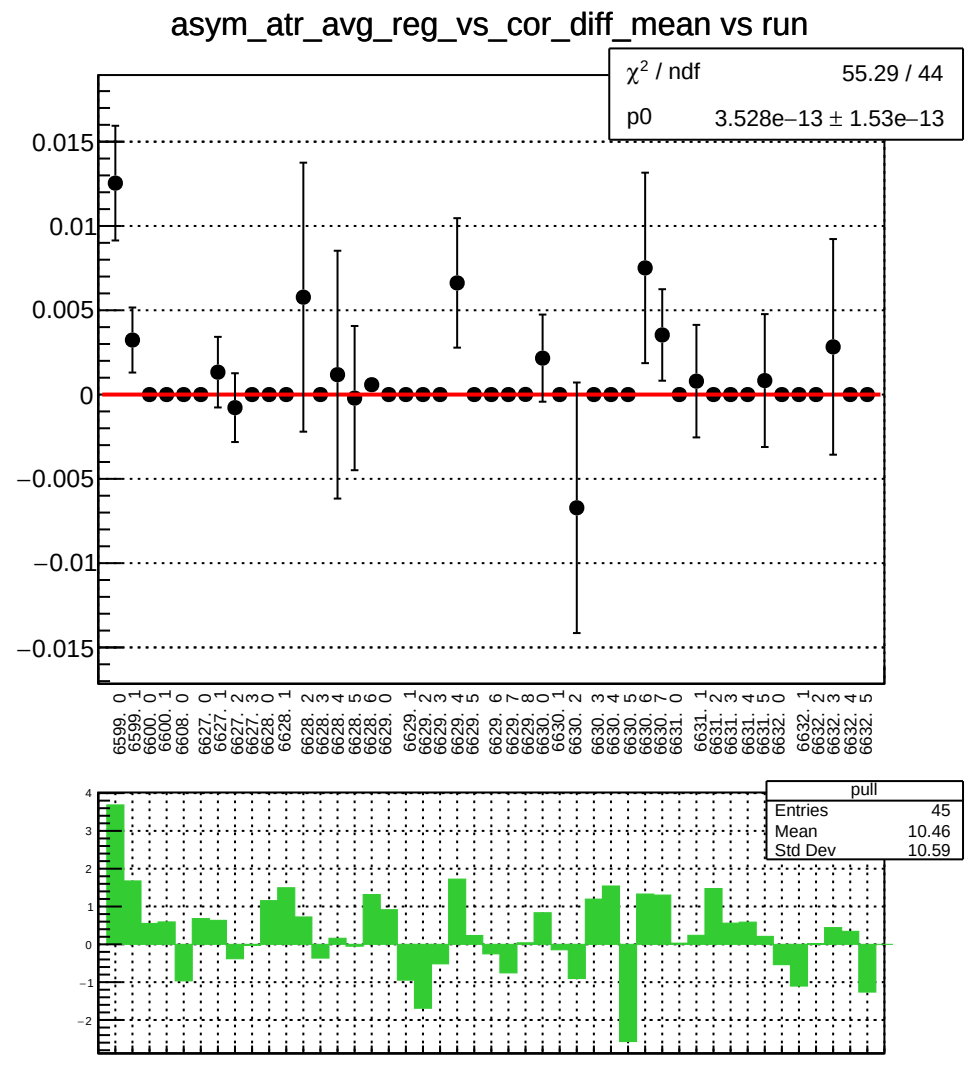

pull1D
Entries 45
Mean −0.01842
Std Dev 1.185
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

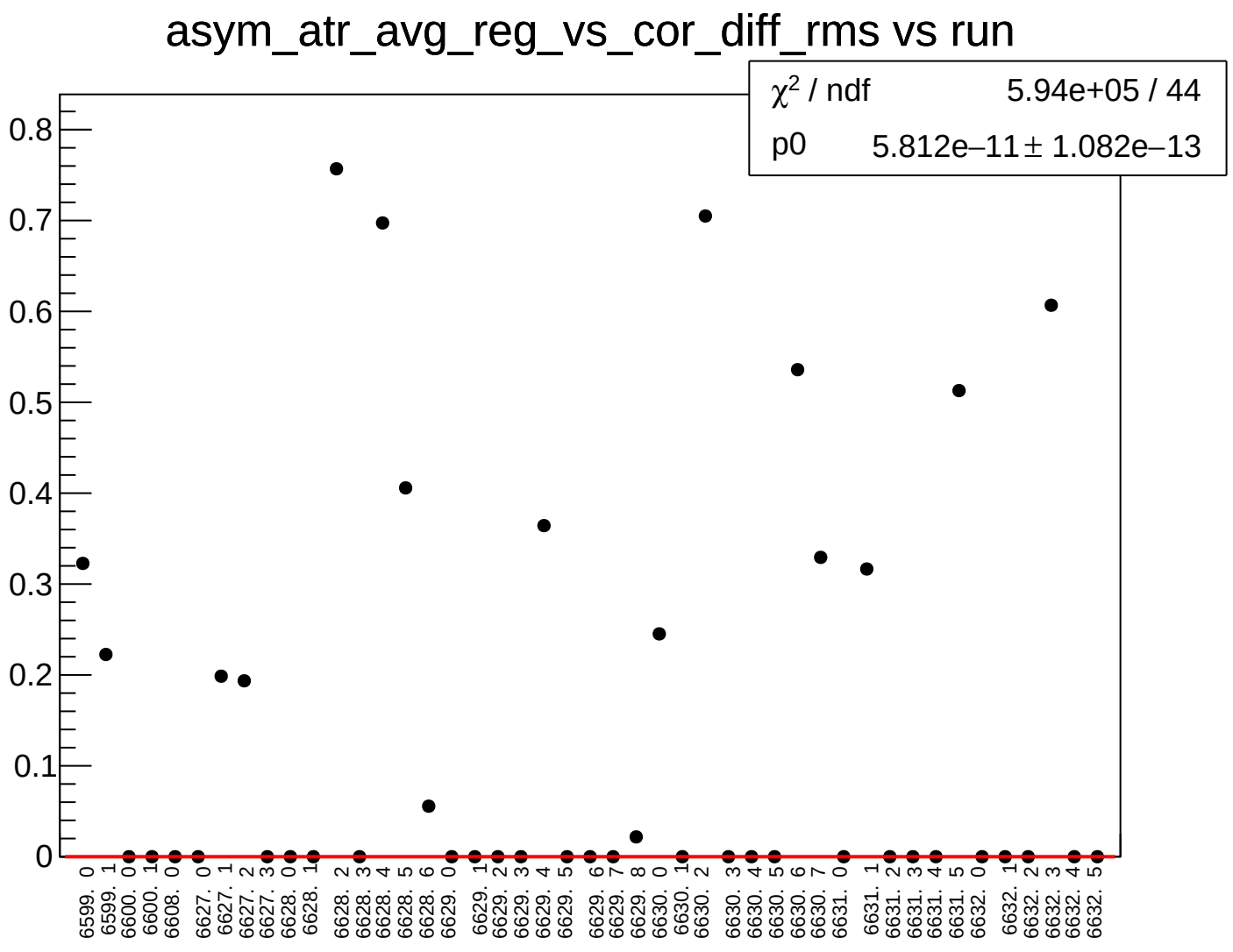

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 5895 / 44
p0 4574 ± 4.885
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

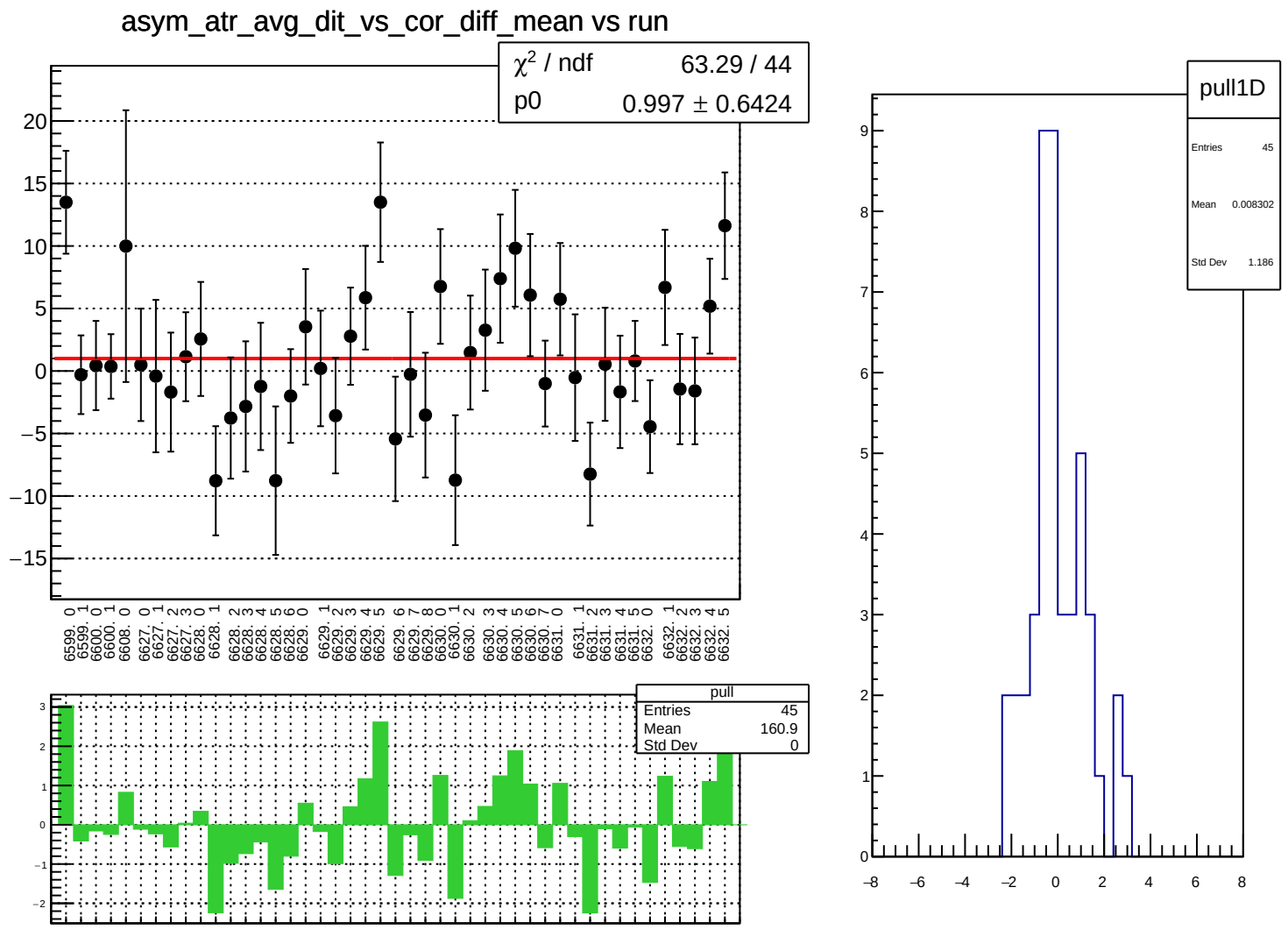

asym_atr_avg_mean vs run
×10^3
χ² / ndf 56.4 / 44
p0 −3967 ± 7045
200
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −32.28
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

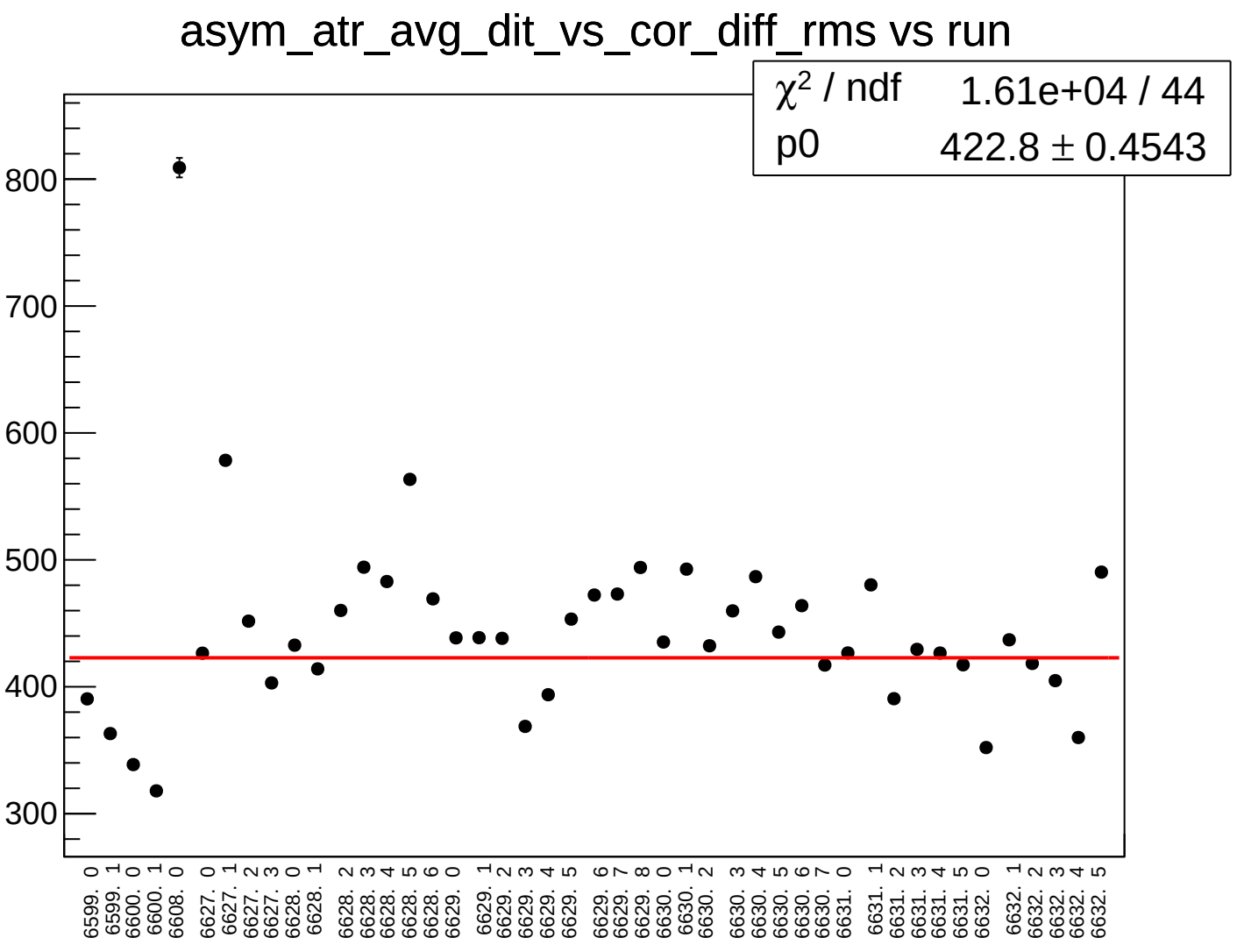

pull1D
Entries 45
Mean 0.02927
Std Dev 1.119
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

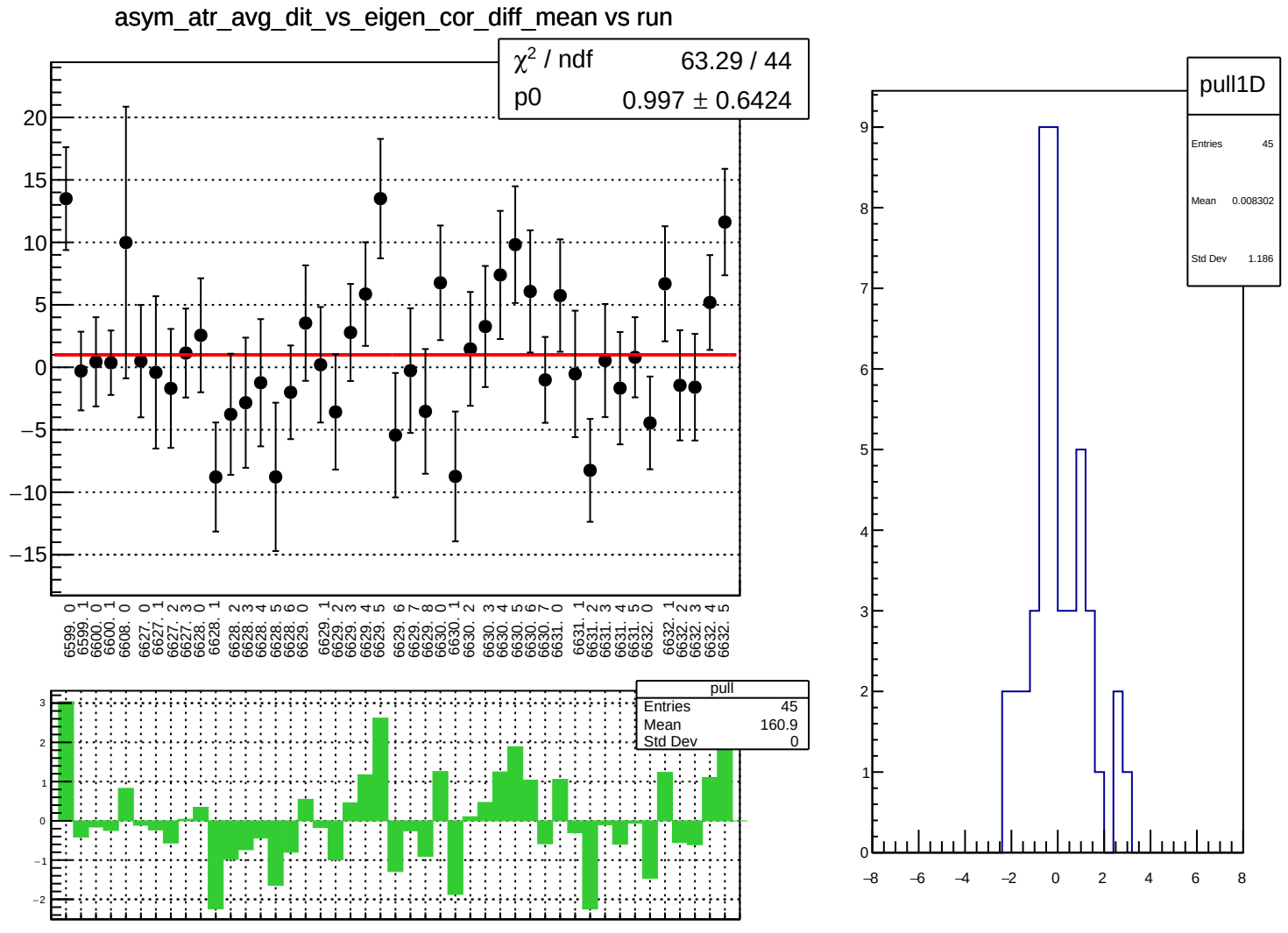

asym_atr_avg_rms vs run
χ² / ndf 4242 / 44
p0 4669 ± 4.982
5600
5400
5200
5000
4800
4600
4400
4200
4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

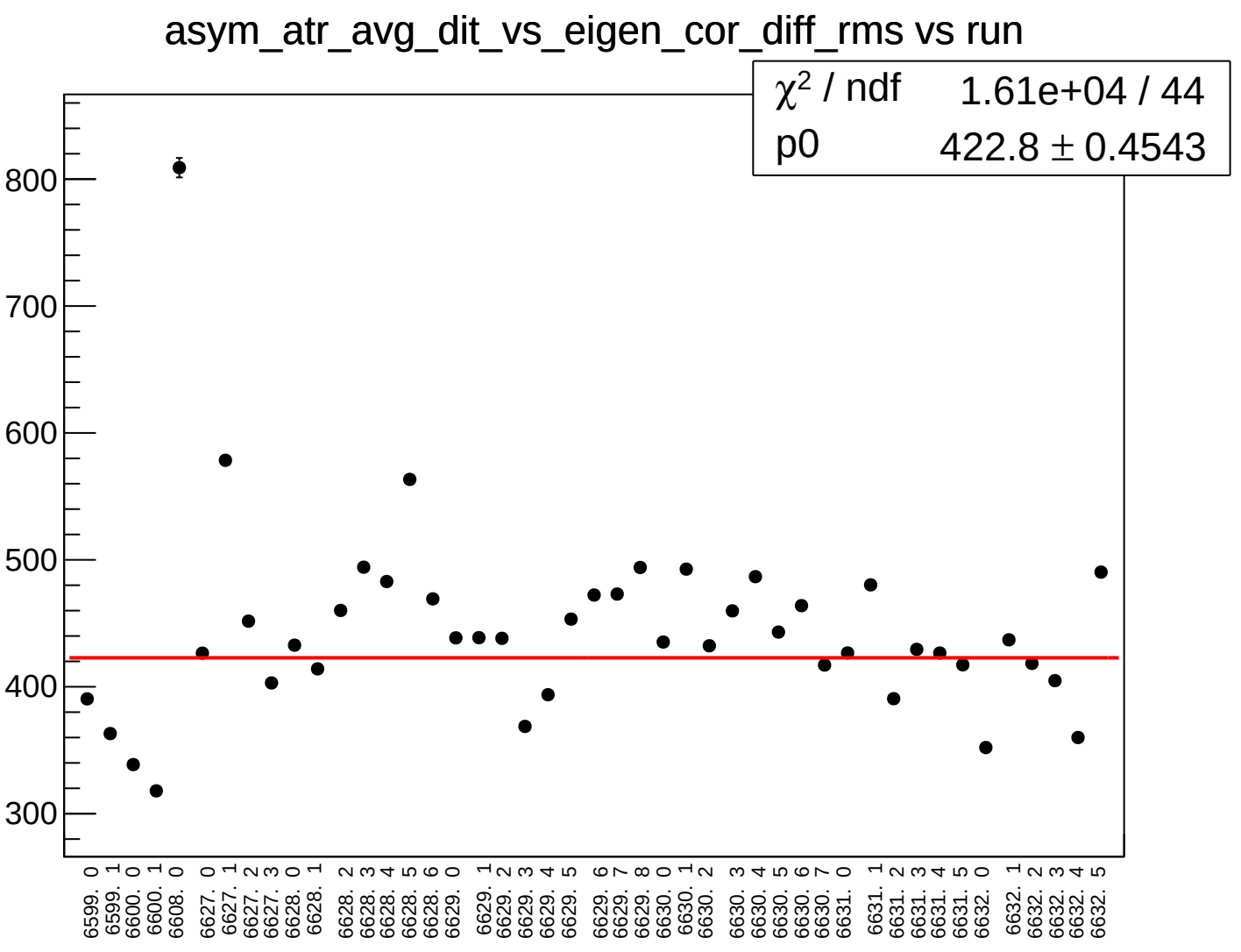

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 55.29 / 44
p0 3.528e−13 ± 1.53e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 10.46
Std Dev 10.59
4
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.2943
Std Dev 1.069
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

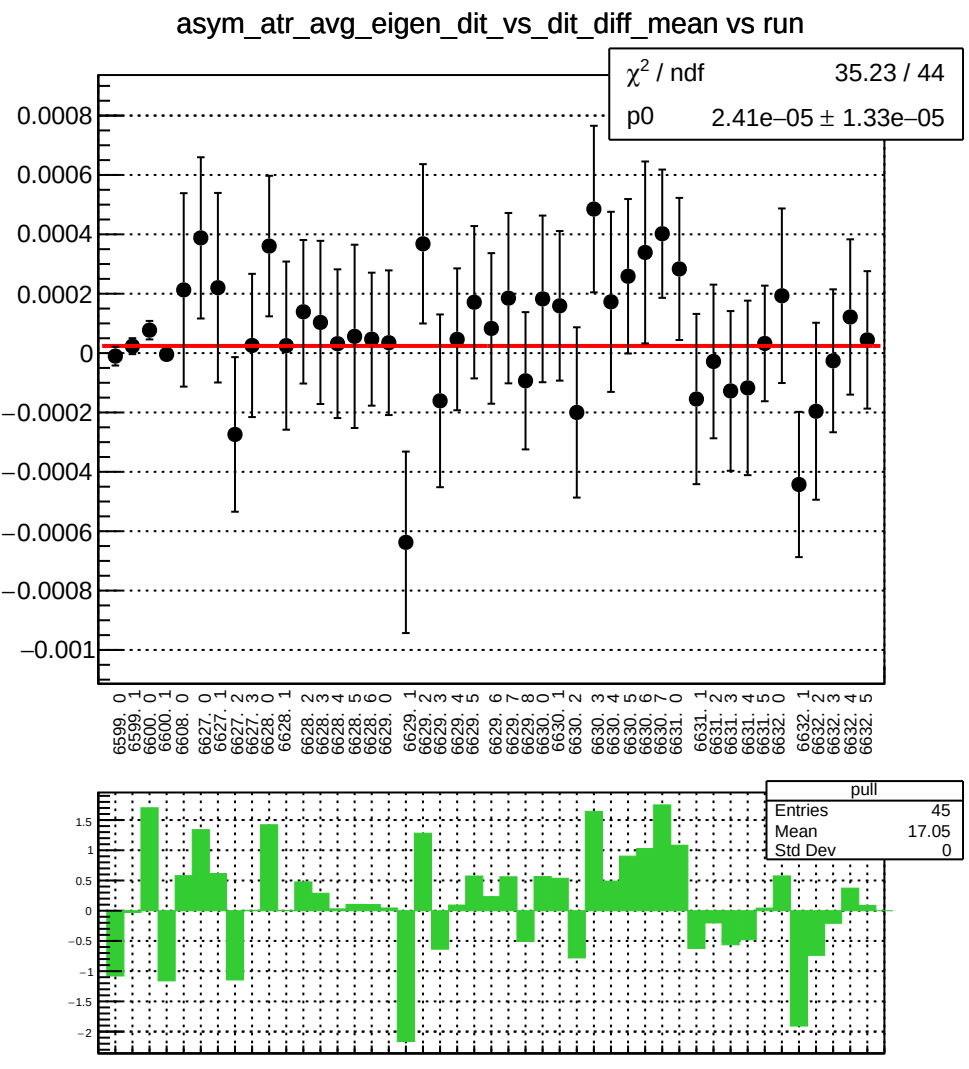

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.94e+05 / 44
p0 5.812e−11 ± 1.082e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

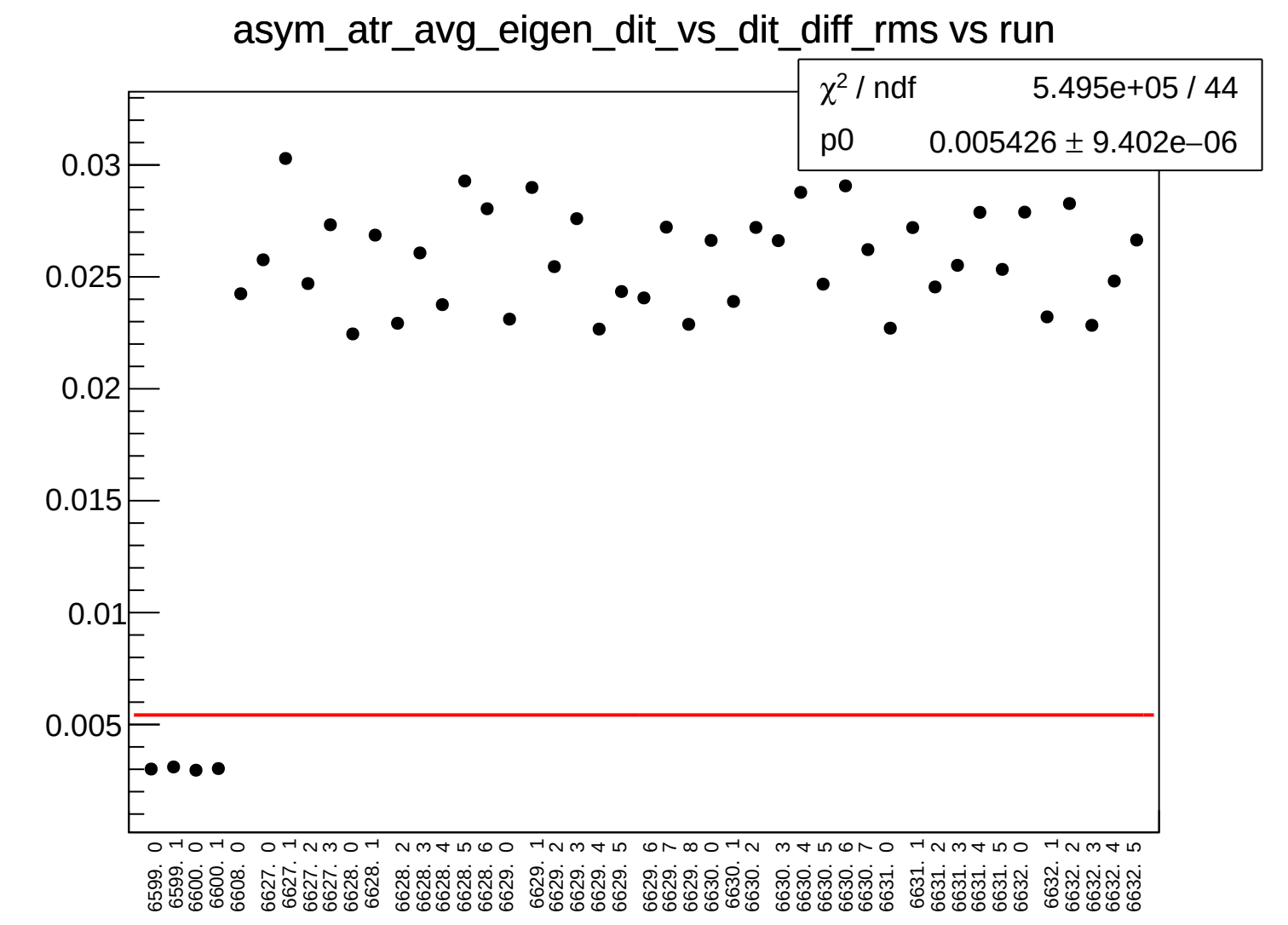

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 63.29 / 44
p0 0.997 ± 0.6424
pull
Entries 45
Mean 160.9
Std Dev 0
pull1D
Entries 45
Mean 0.008302
Std Dev 1.186

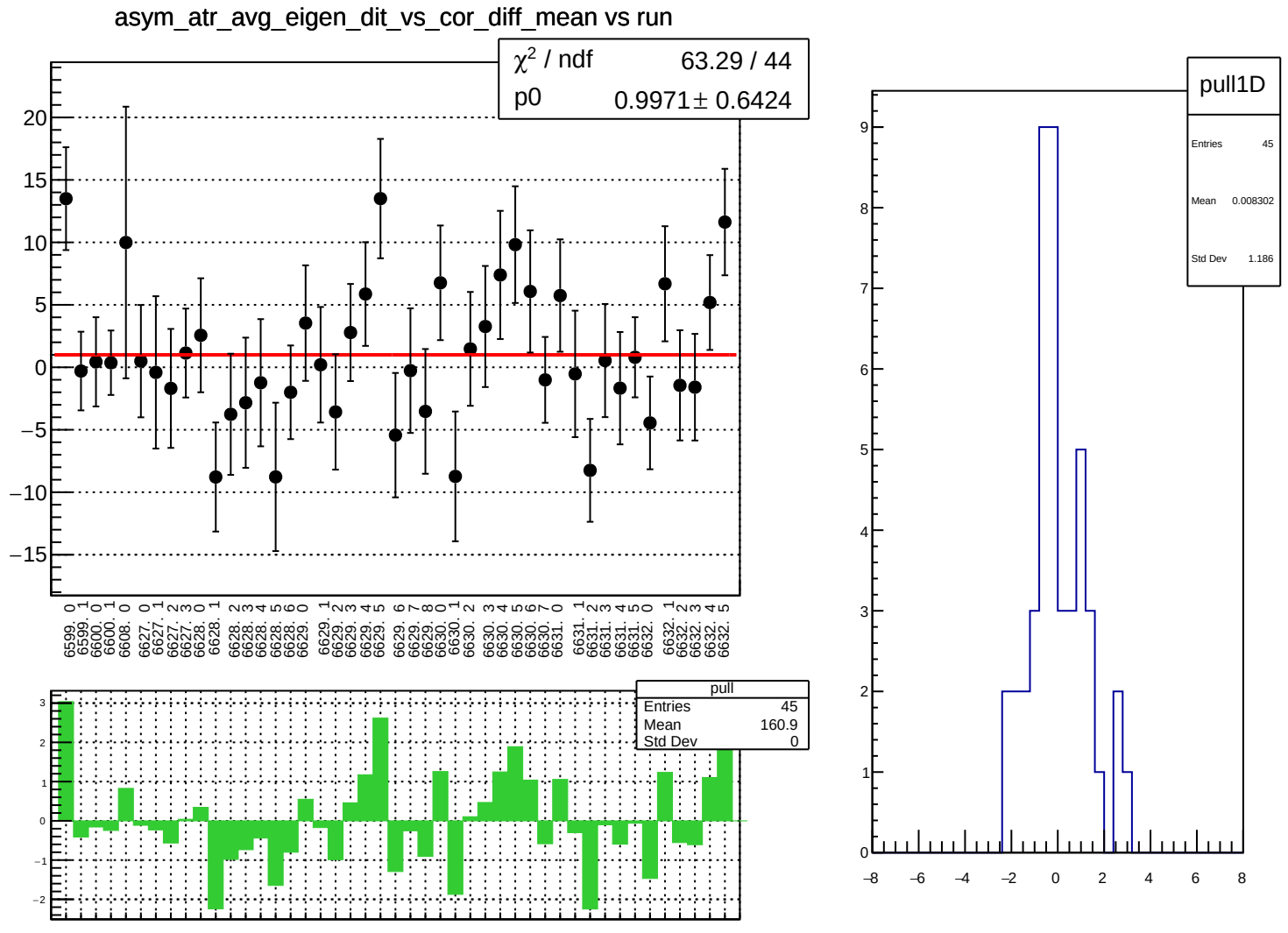

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.61e+04 / 44
p0 422.8 ± 0.4543
800
700
600
500
400
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

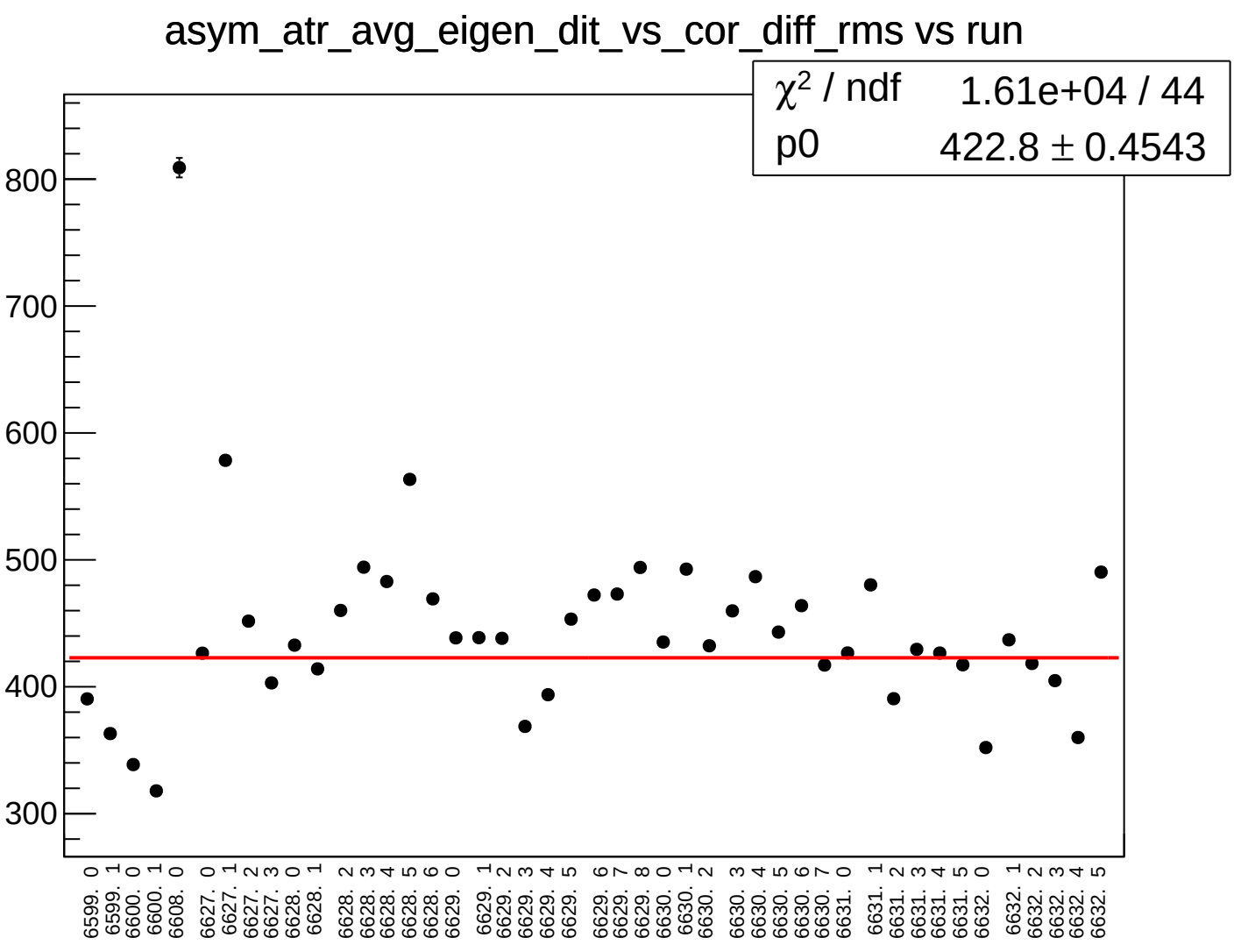

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.29 / 44
p0 0.997 ± 0.6424
pull
Entries 45
Mean 160.9
Std Dev 0
pull1D
Entries 45
Mean 0.008302
Std Dev 1.186

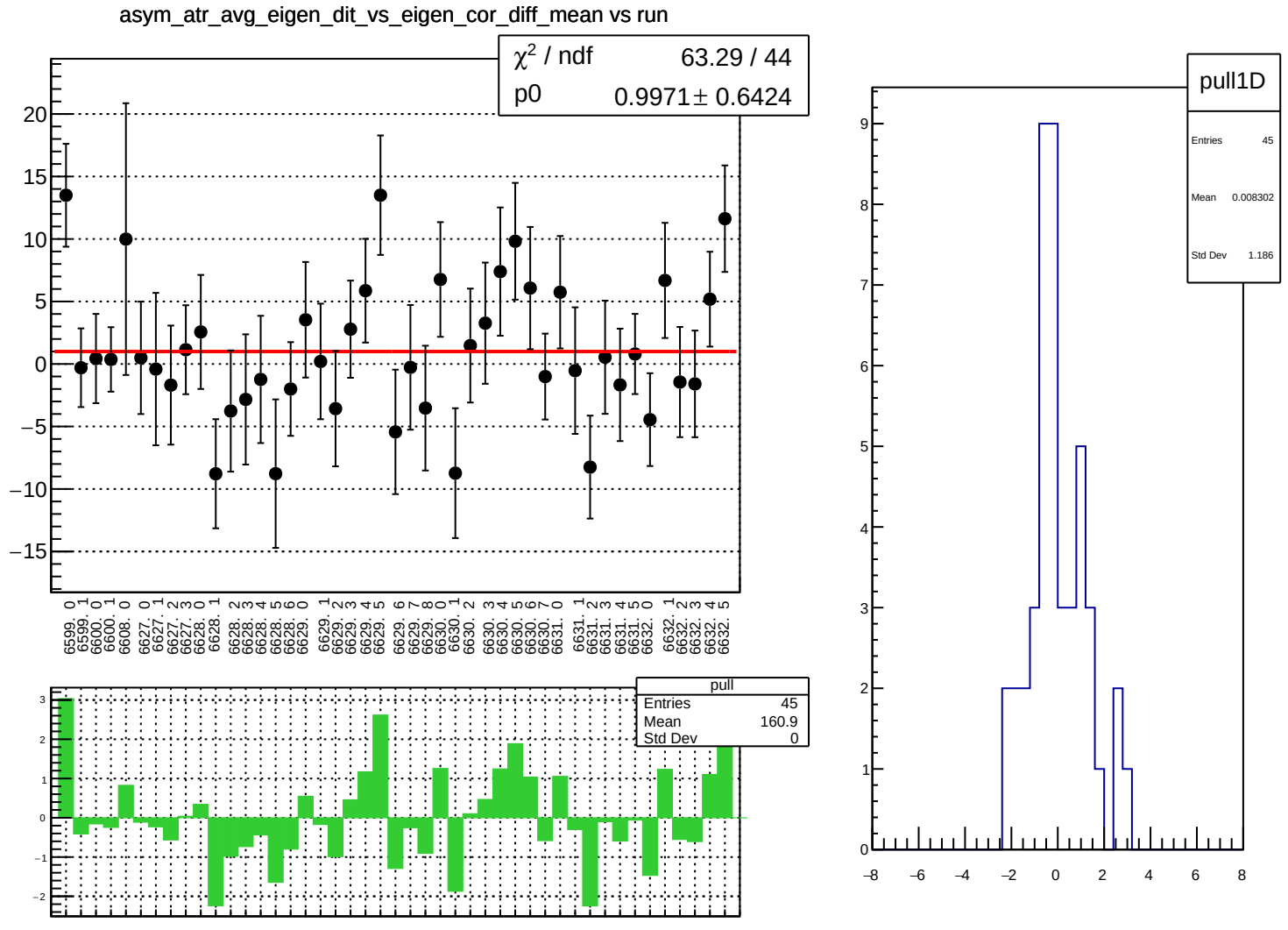

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.61e+04 / 44
p0 422.8 ± 0.4543
800
700
600
500
400
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

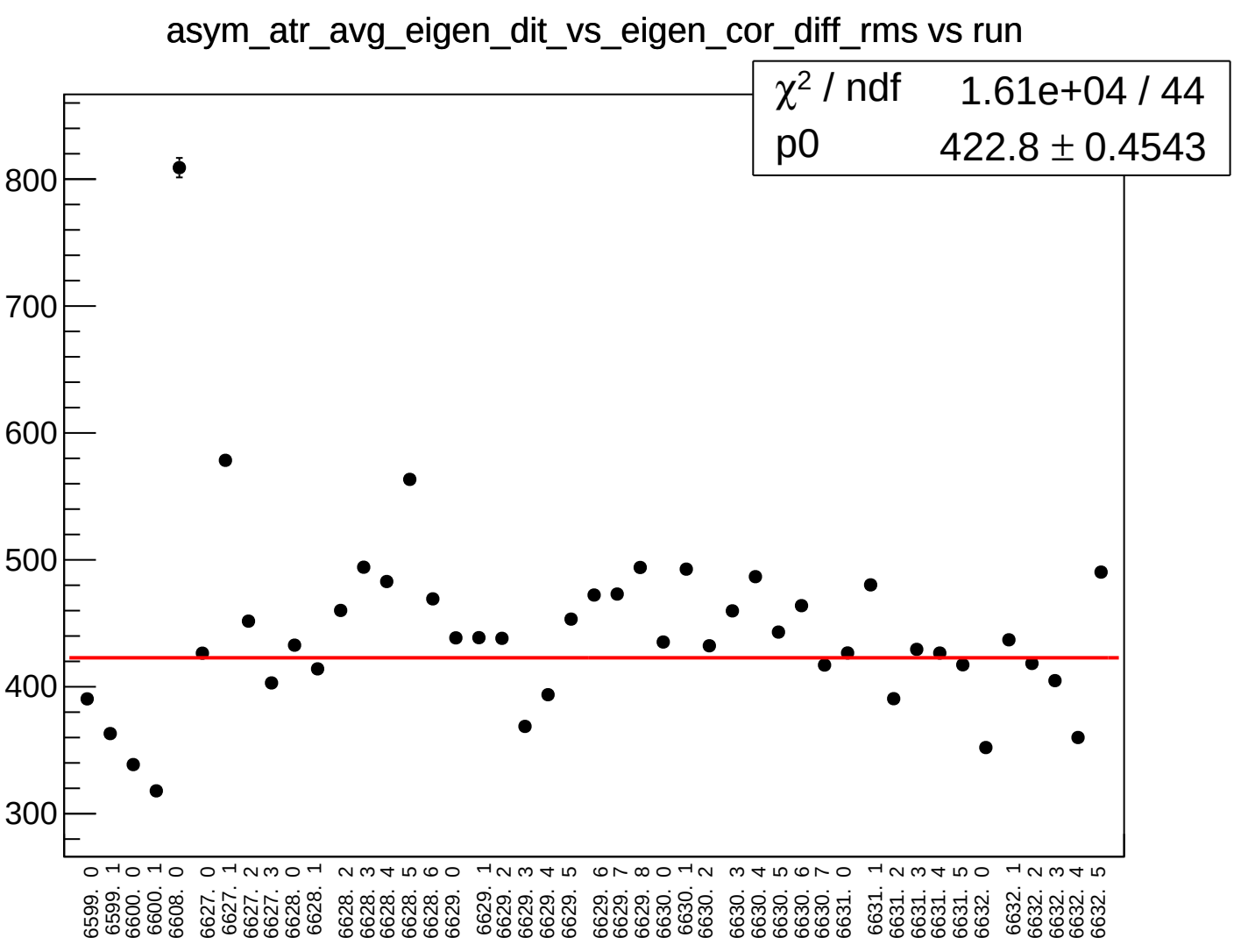

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 35.23 / 44
p0 2.41e−05 ± 1.33e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 17.05
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.1401
Std Dev 0.8736
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

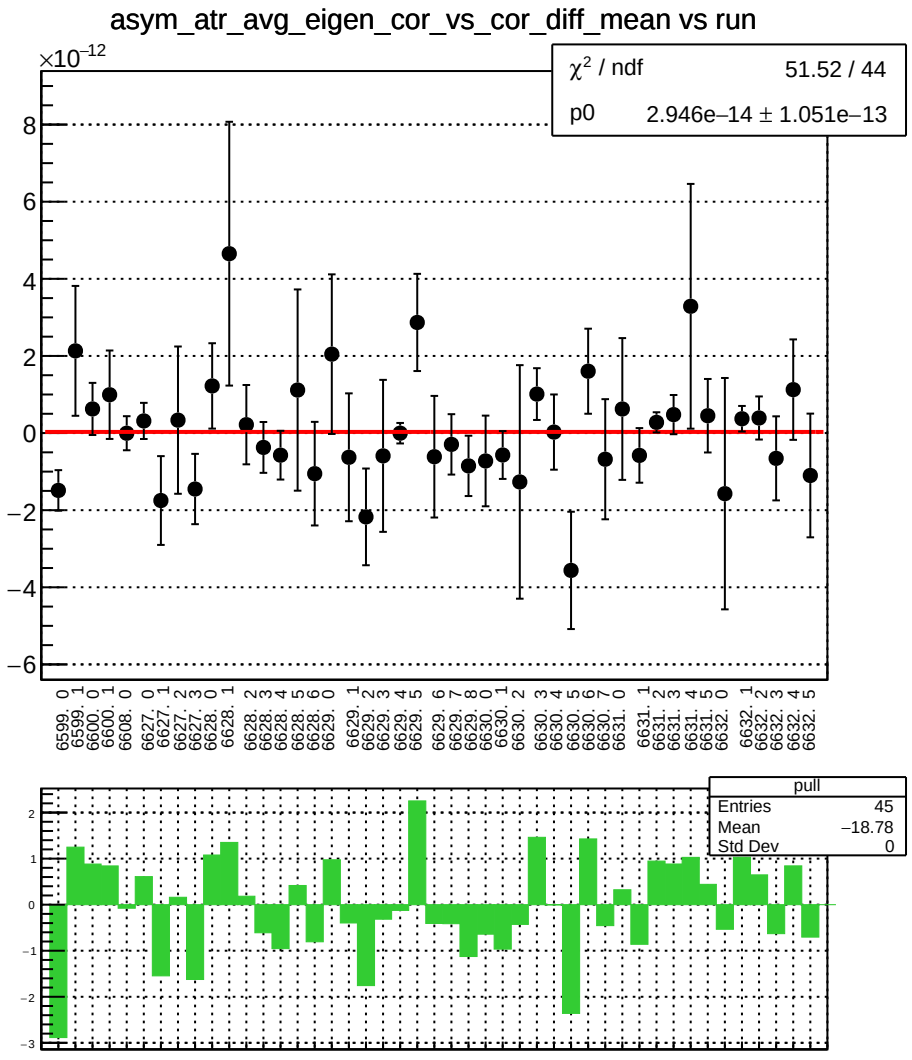

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.495e+05 / 44
p0 0.005426 ± 9.402e−06
0.03
0.025
0.02
0.015
0.01
0.005
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

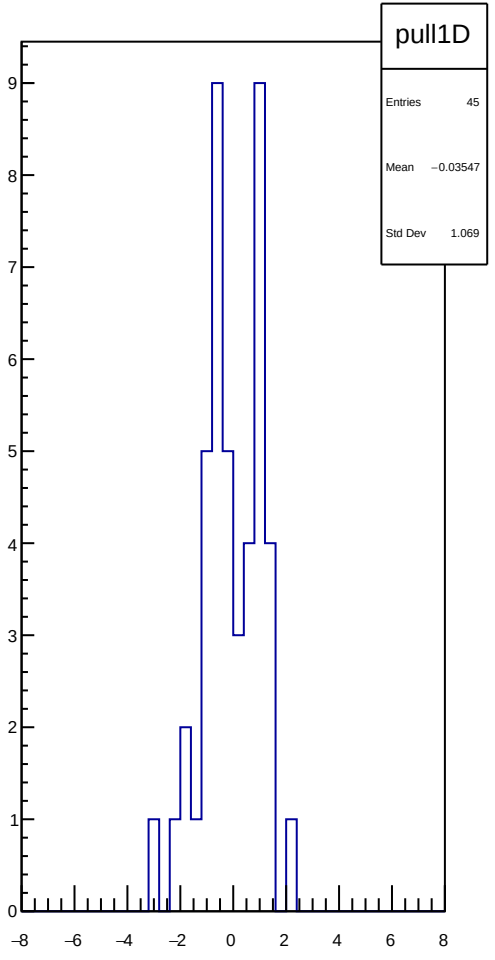

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 63.29 / 44
p0 0.9971± 0.6424
pull
Entries 45
Mean 160.9
Std Dev 0
pull1D
Entries 45
Mean 0.008302
Std Dev 1.186

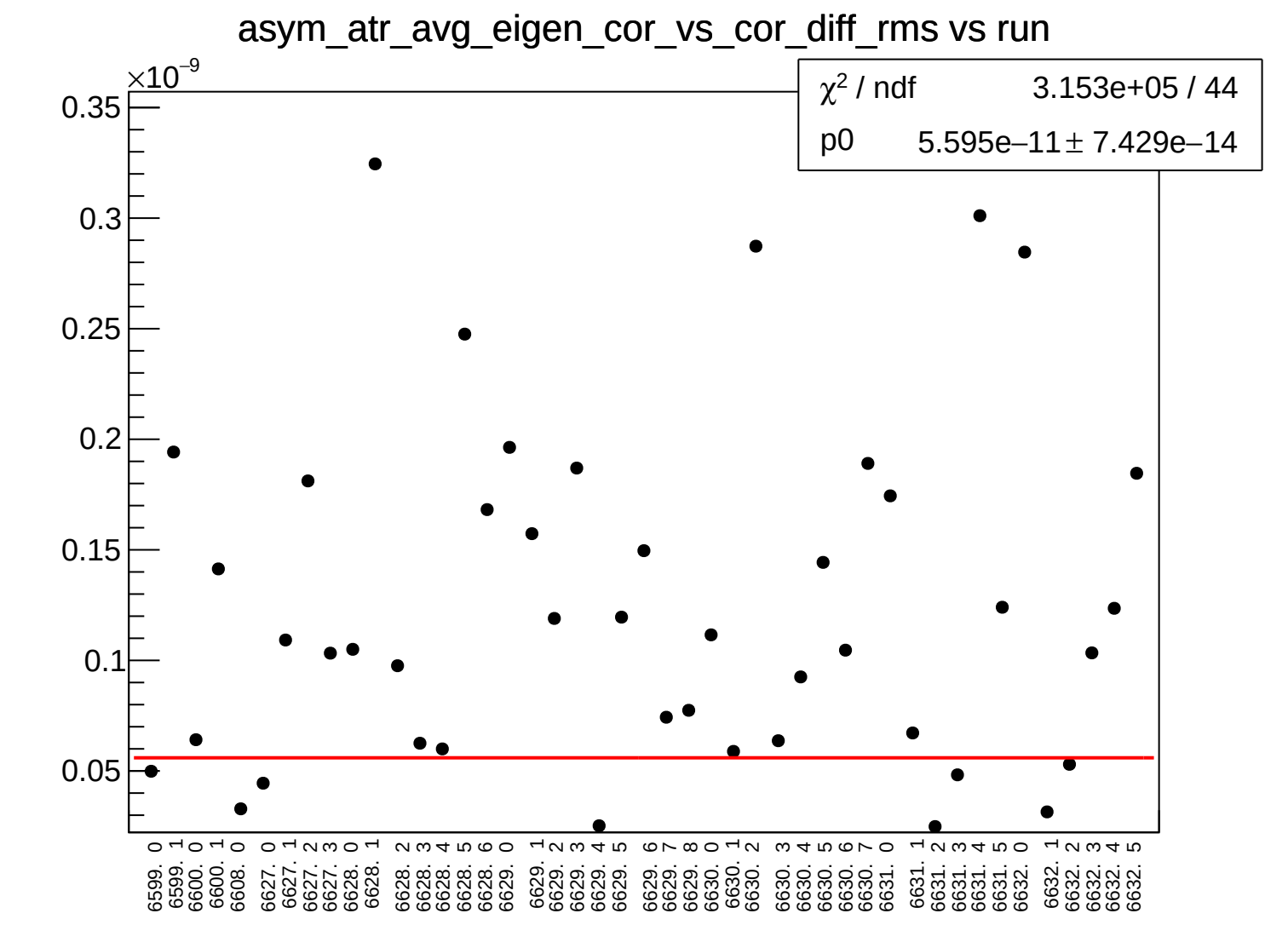

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.61e+04 / 44
p0 422.8 ± 0.4543
800
700
600
500
400
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

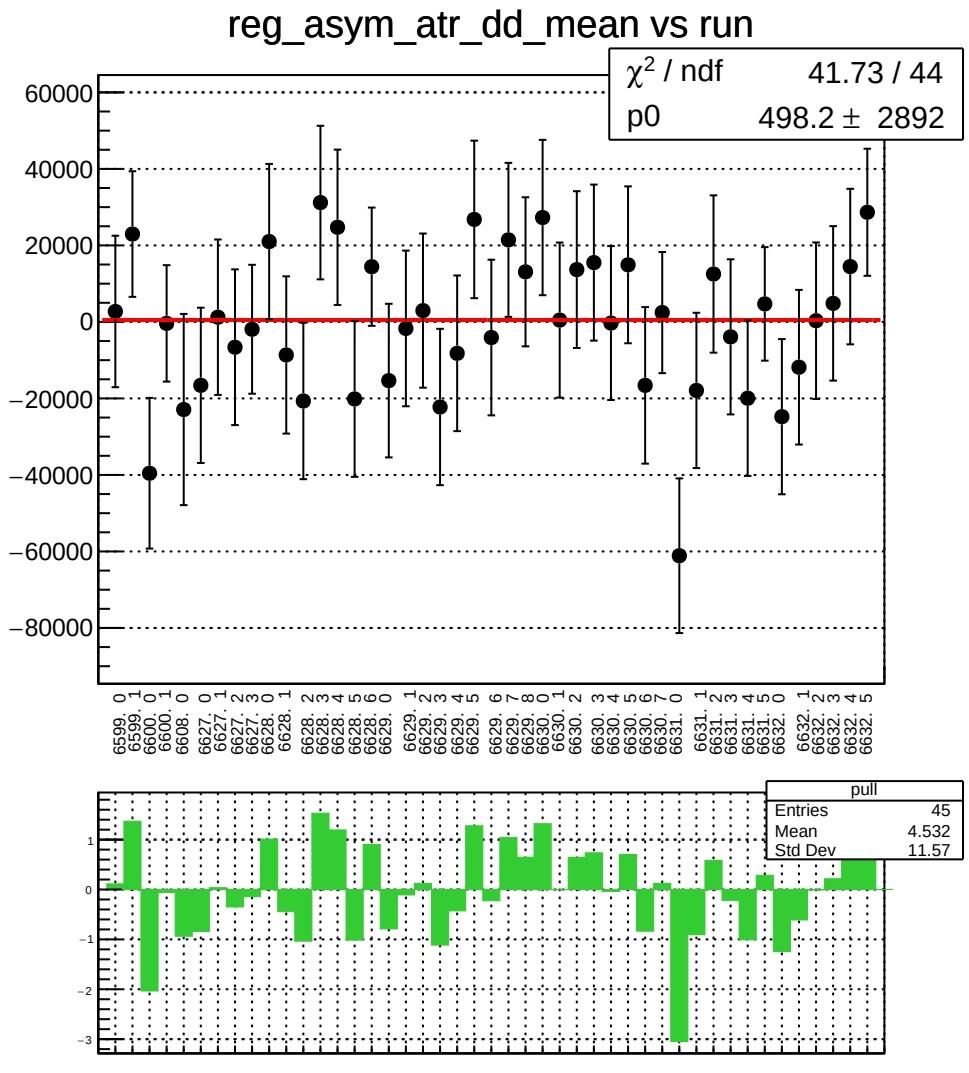

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.29 / 44
p0 0.9971± 0.6424
pull
Entries 45
Mean 160.9
Std Dev 0
pull1D
Entries 45
Mean 0.008302
Std Dev 1.186

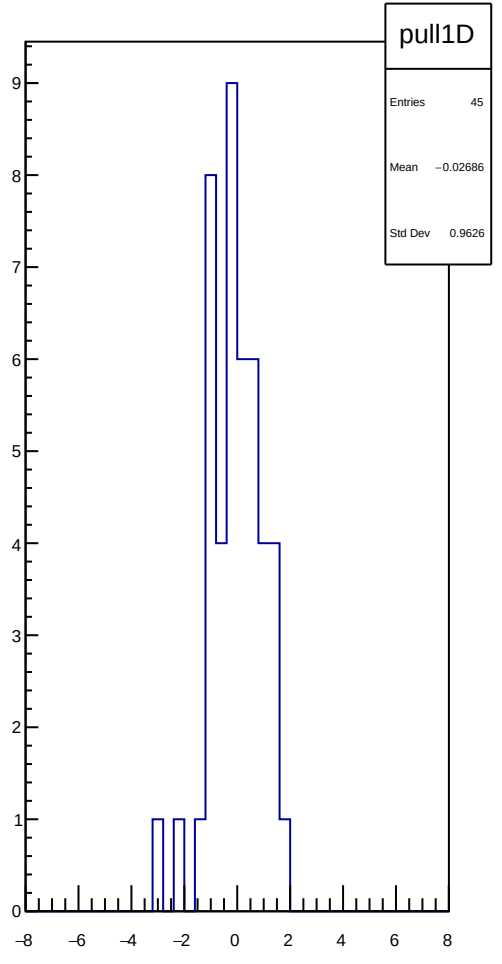

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.61e+04 / 44
p0 422.8 ± 0.4543
800
700
600
500
400
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

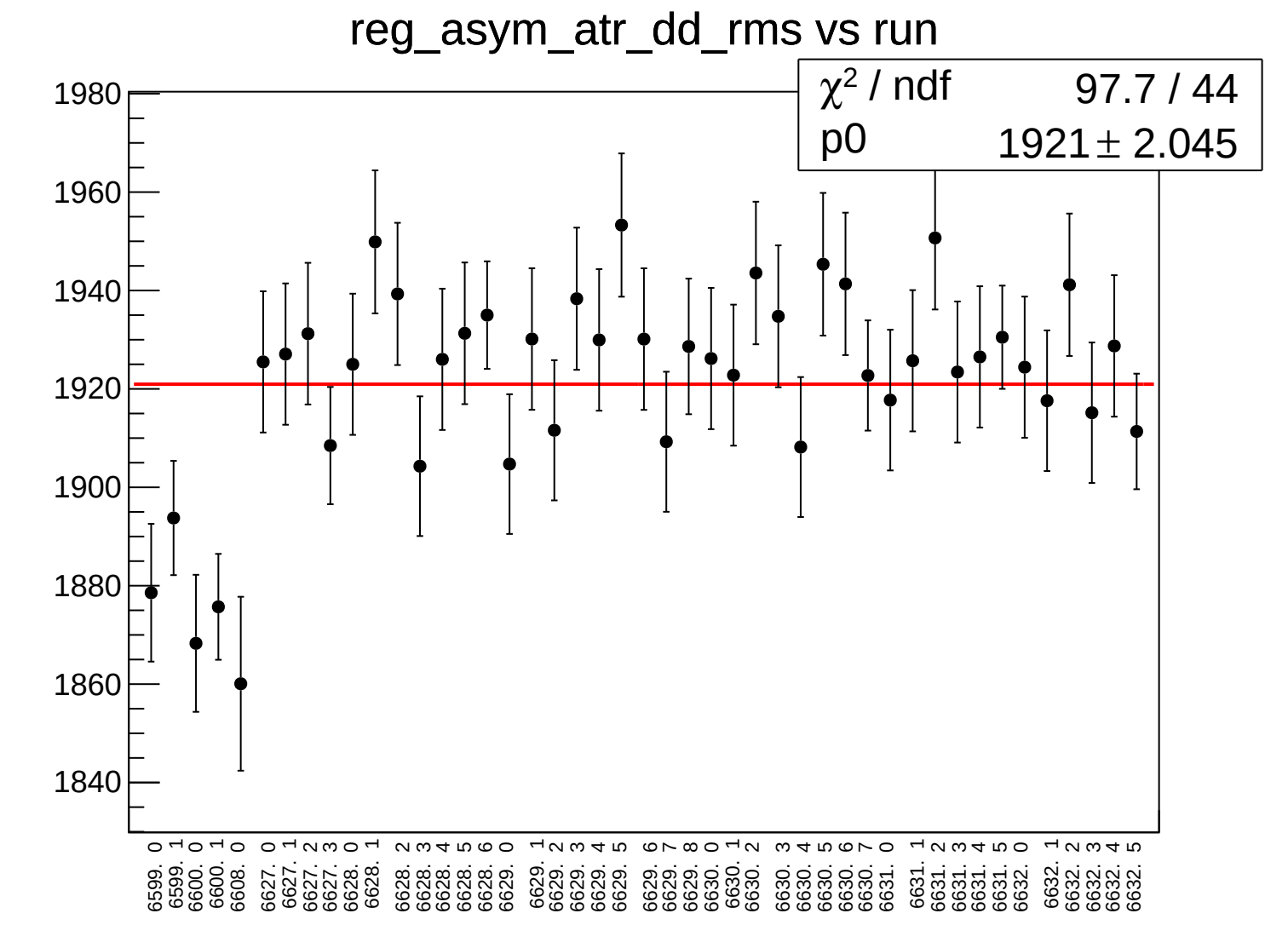

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 51.52 / 44
p0 2.946e−14 ± 1.051e−13
pull
Entries 45
Mean −18.78
Std Dev 0

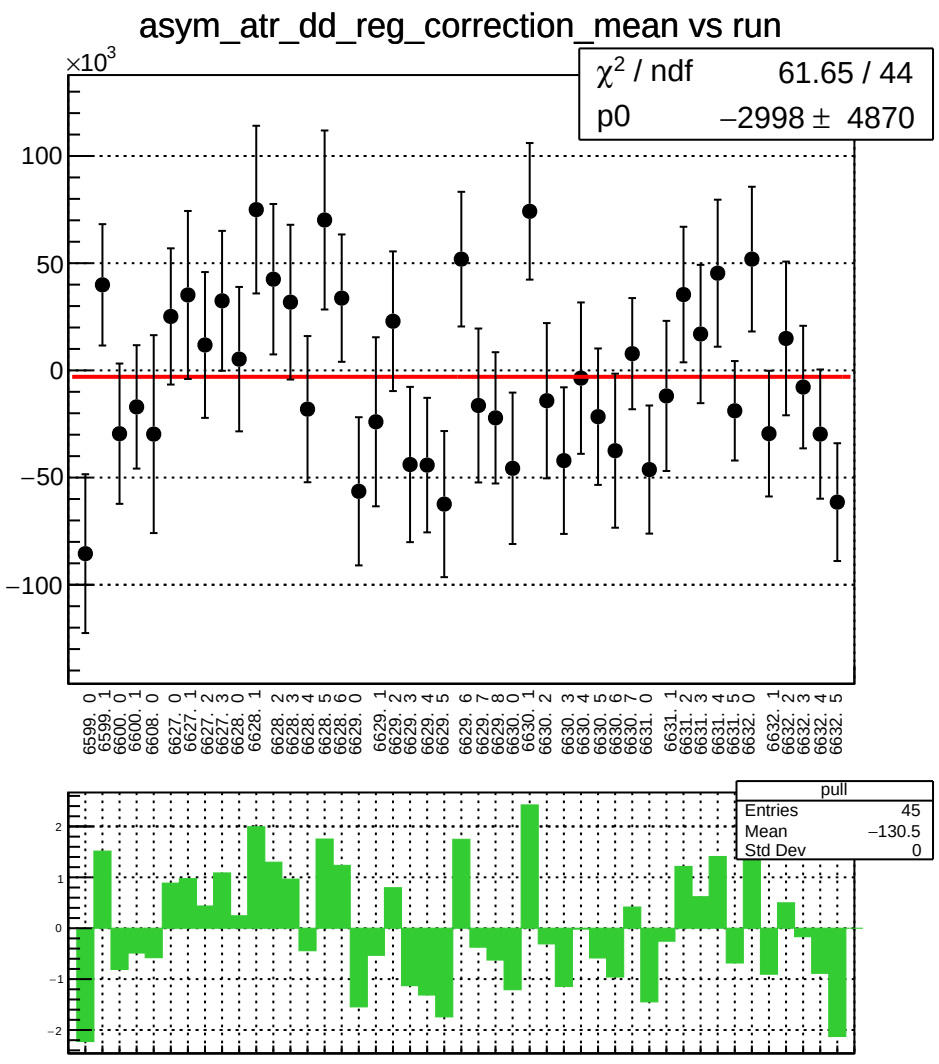

pull1D
Entries 45
Mean −0.03547
Std Dev 1.069

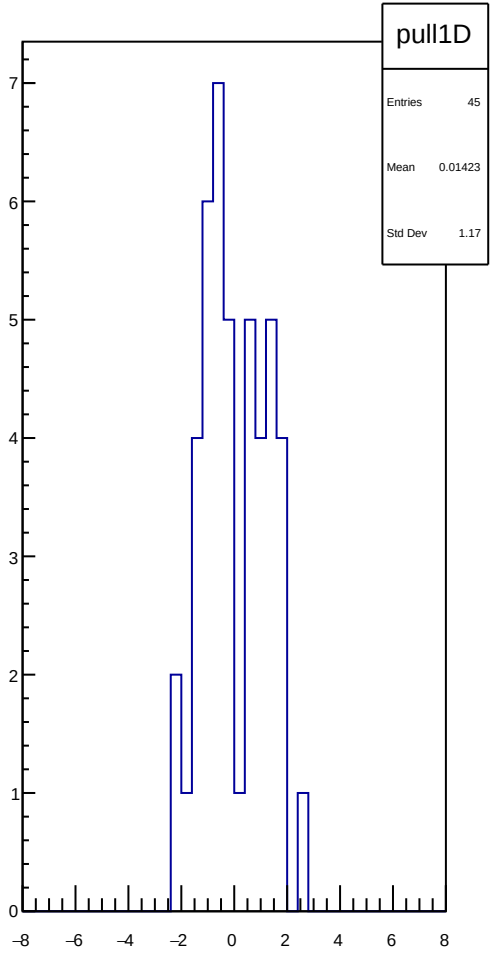

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.153e+05 / 44
p0 5.595e−11 ± 7.429e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

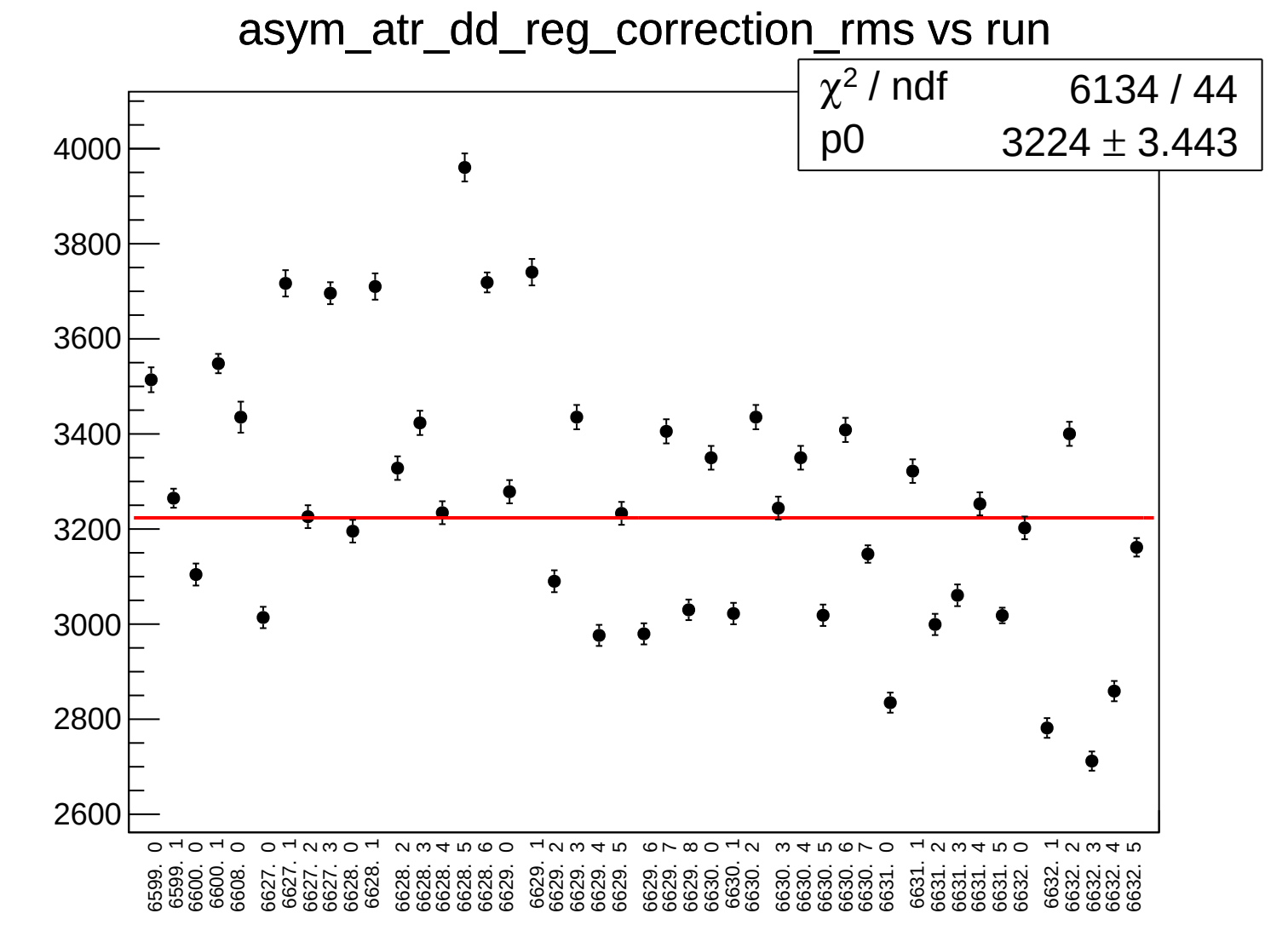

reg_asym_atr_dd_mean vs run
χ² / ndf 41.73 / 44
p0 498.2 ± 2892
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 4.532
Std Dev 11.57
1
0
−1
−2
−3

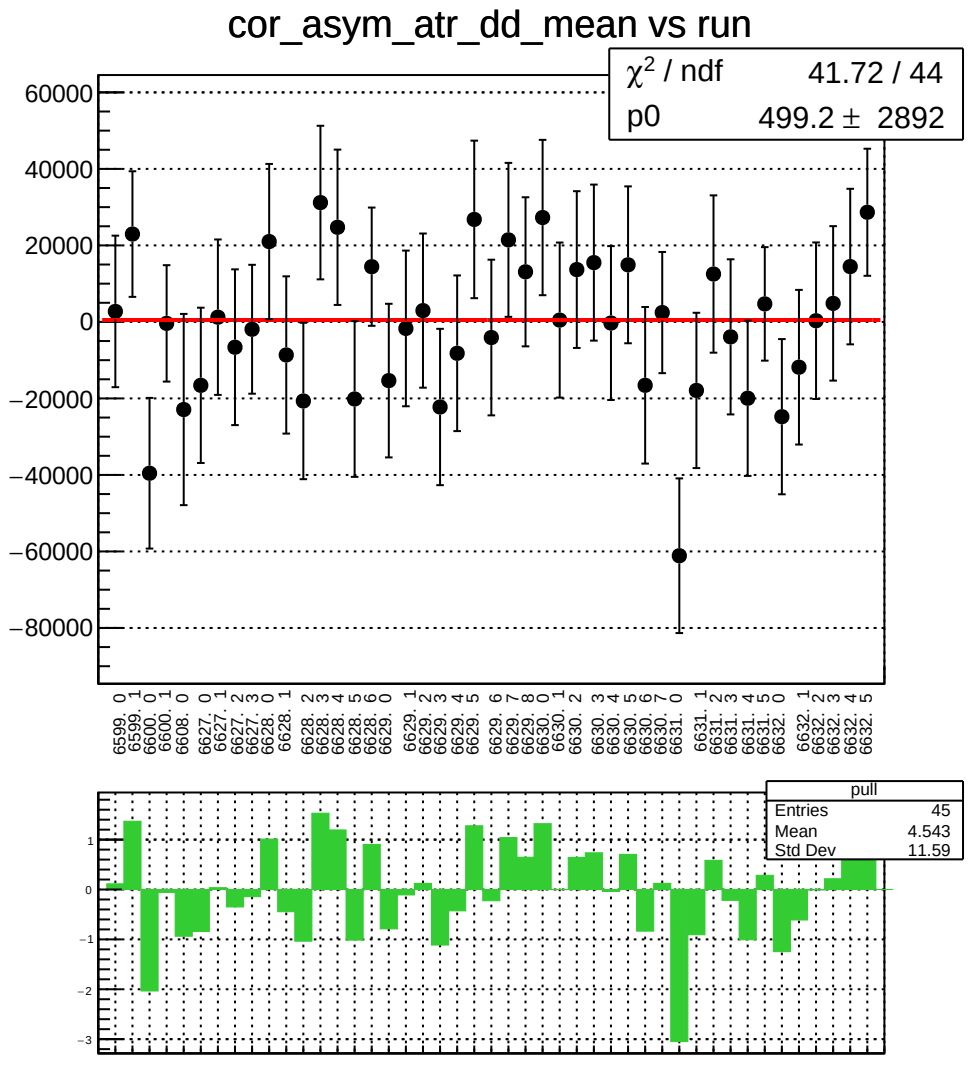

pull1D
Entries 45
Mean −0.02686
Std Dev 0.9626
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

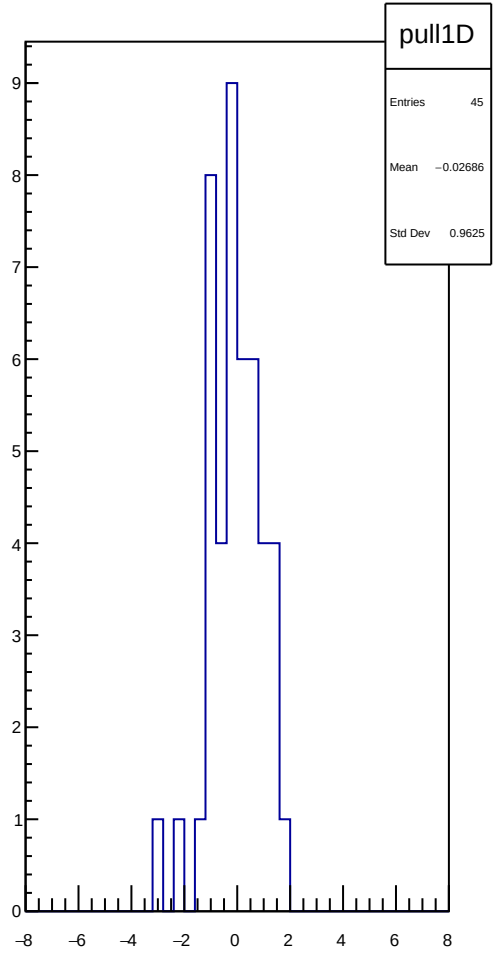

reg_asym_atr_dd_rms vs run
χ² / ndf 97.7 / 44
p0 1921 ± 2.045
1980
1960
1940
1920
1900
1880
1860
1840
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

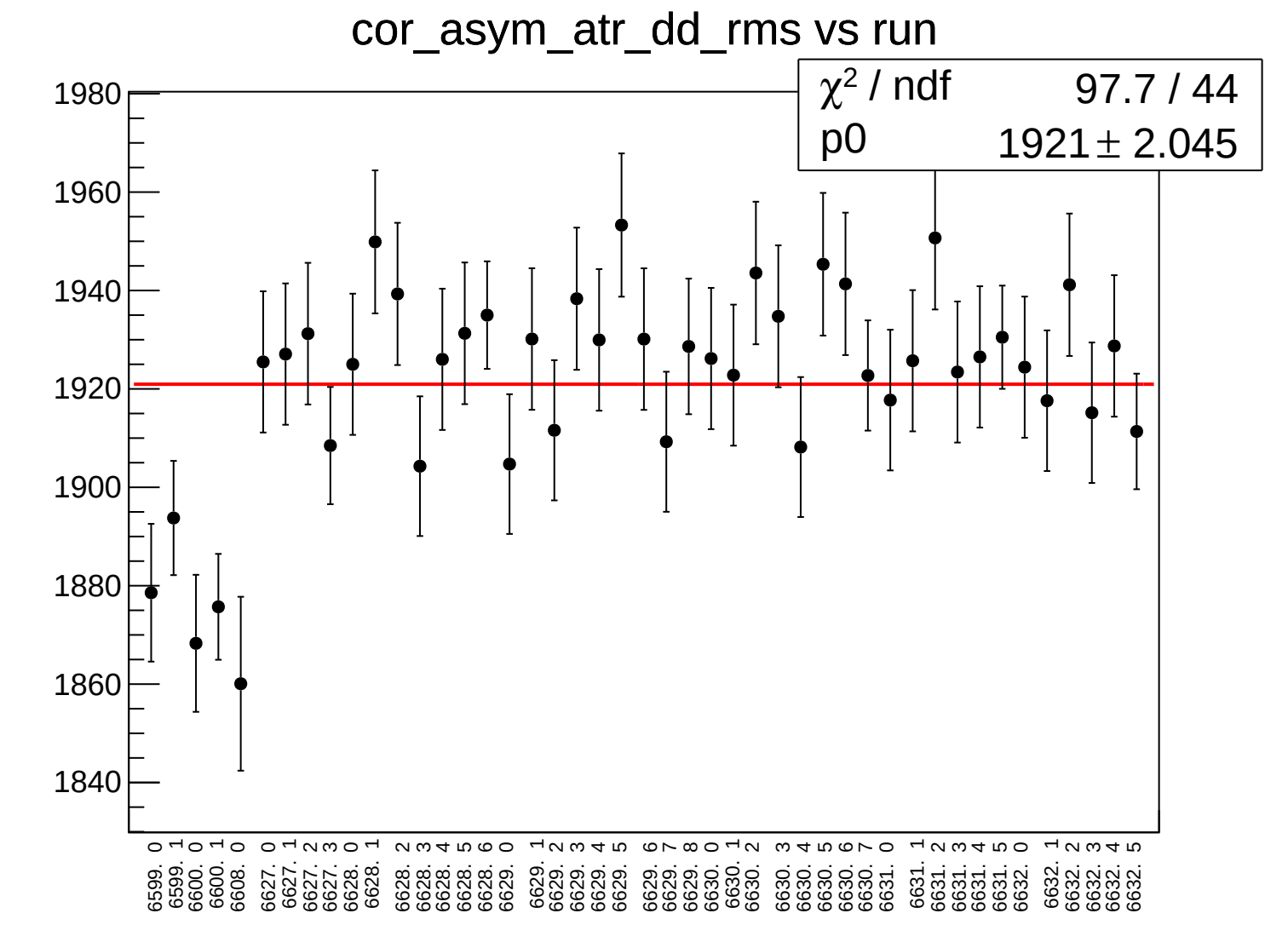

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 61.65 / 44
p0 −2998 ± 4870
100
50
0
−50
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −130.5
Std Dev 0
2
1
0
−1
−2

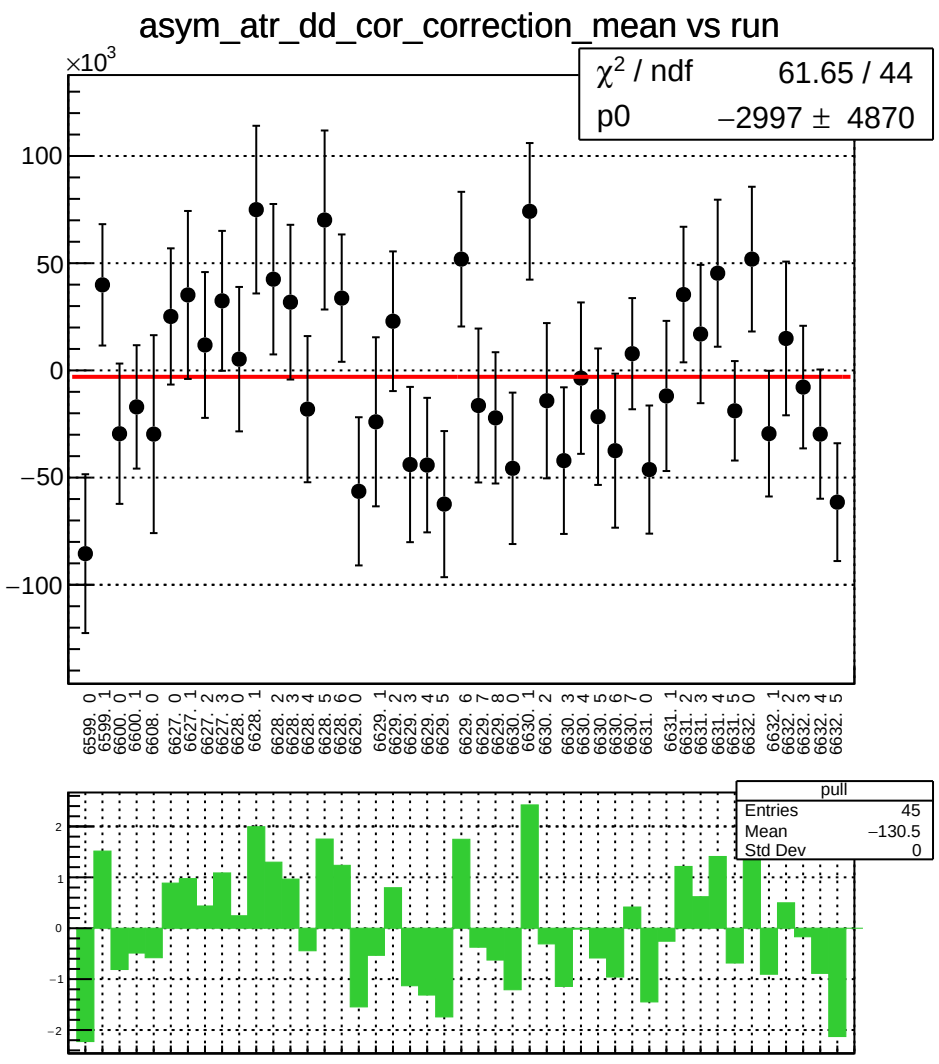

pull1D
Entries 45
Mean 0.01423
Std Dev 1.17
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

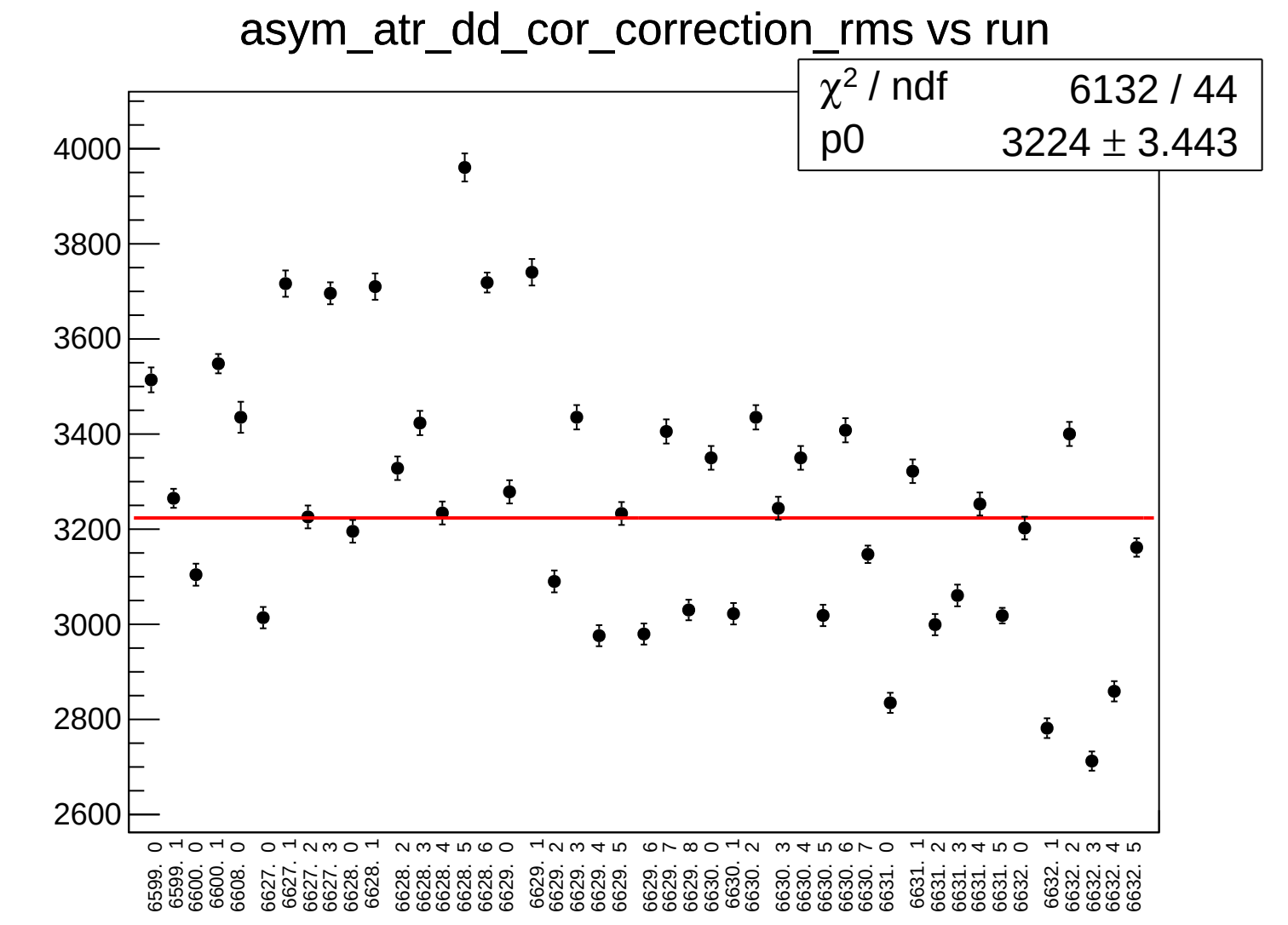

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 6134 / 44
p0 3224 ± 3.443
4000
3800
3600
3400
3200
3000
2800
2600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_atr_dd_mean vs run
χ² / ndf 41.72 / 44
p0 499.2 ± 2892
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 4.543
Std Dev 11.59
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.02686
Std Dev 0.9625
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atr_dd_rms vs run
χ² / ndf 97.7 / 44
p0 1921 ± 2.045
1980
1960
1940
1920
1900
1880
1860
1840
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 61.65 / 44
p0 −2997 ± 4870
100
50
0
−50
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −130.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01424
Std Dev 1.17
7
6
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 6132 / 44
p0 3224 ± 3.443
4000
3800
3600
3400
3200
3000
2800
2600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
6631. 5
6632. 0
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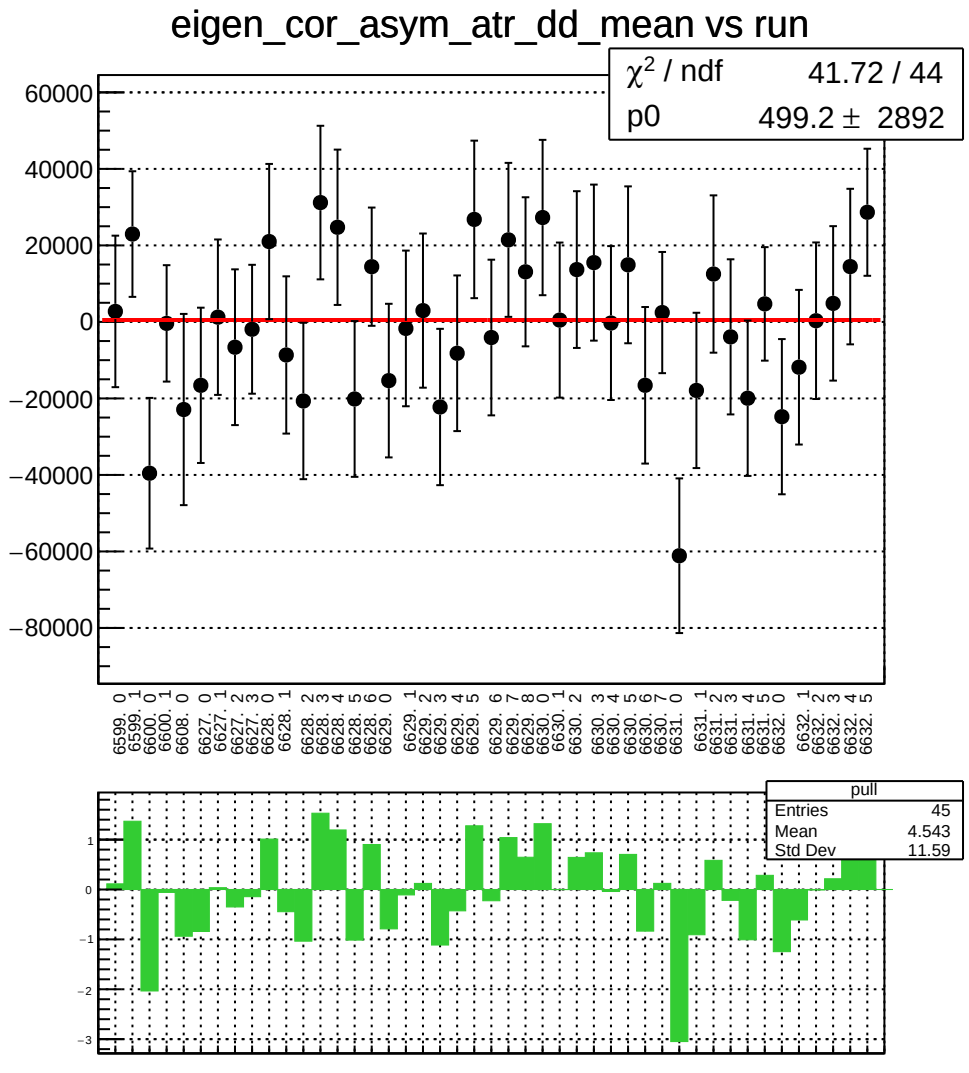
6632. 2
6632. 3
6632. 4
6632. 5


eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 41.72 / 44
p0 499.2 ± 2892
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 6
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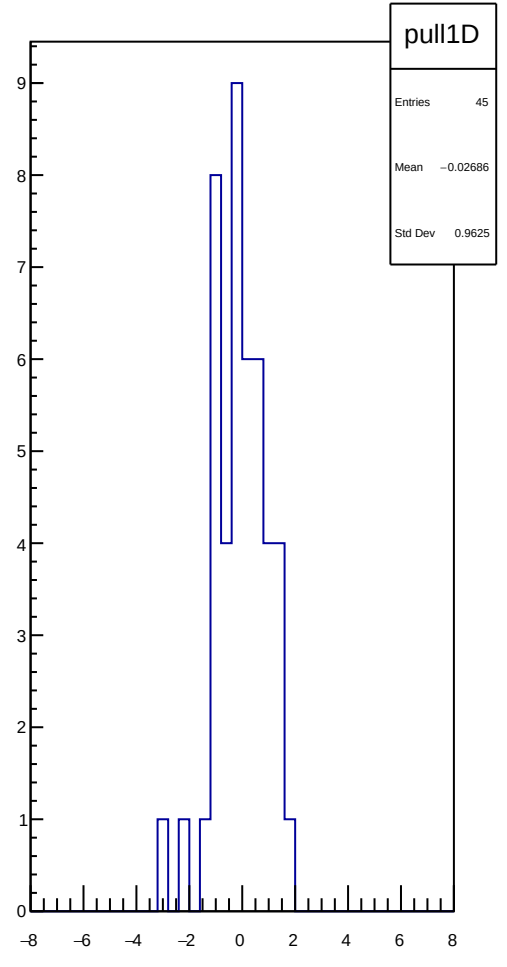
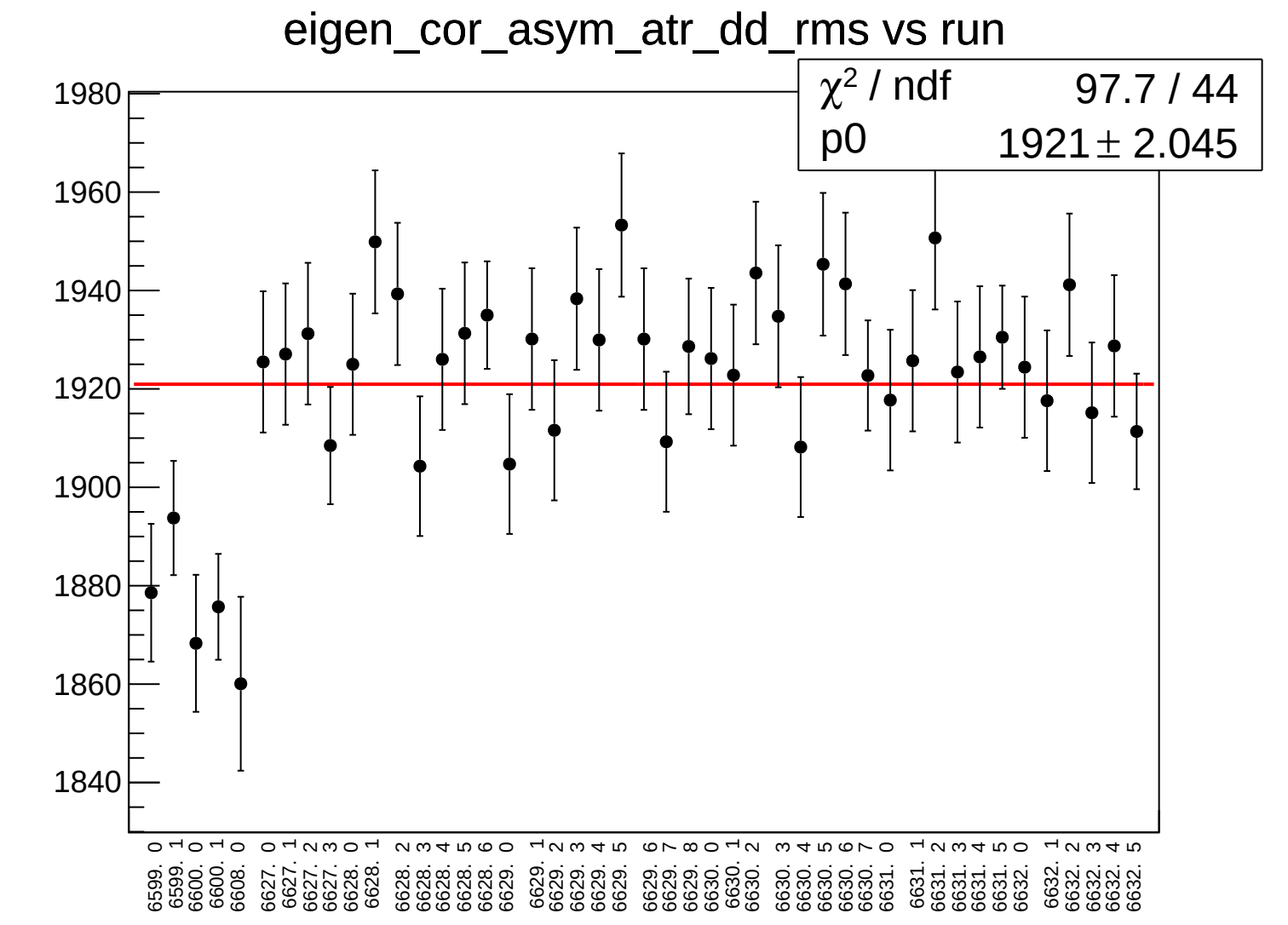
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 4.543
Std Dev 11.59
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.02686
Std Dev 0.9625
9
8
7
6
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 97.7 / 44
p0 1921 ± 2.045
1980
1960
1940
1920
1900
1880
1860
1840
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6632. 2
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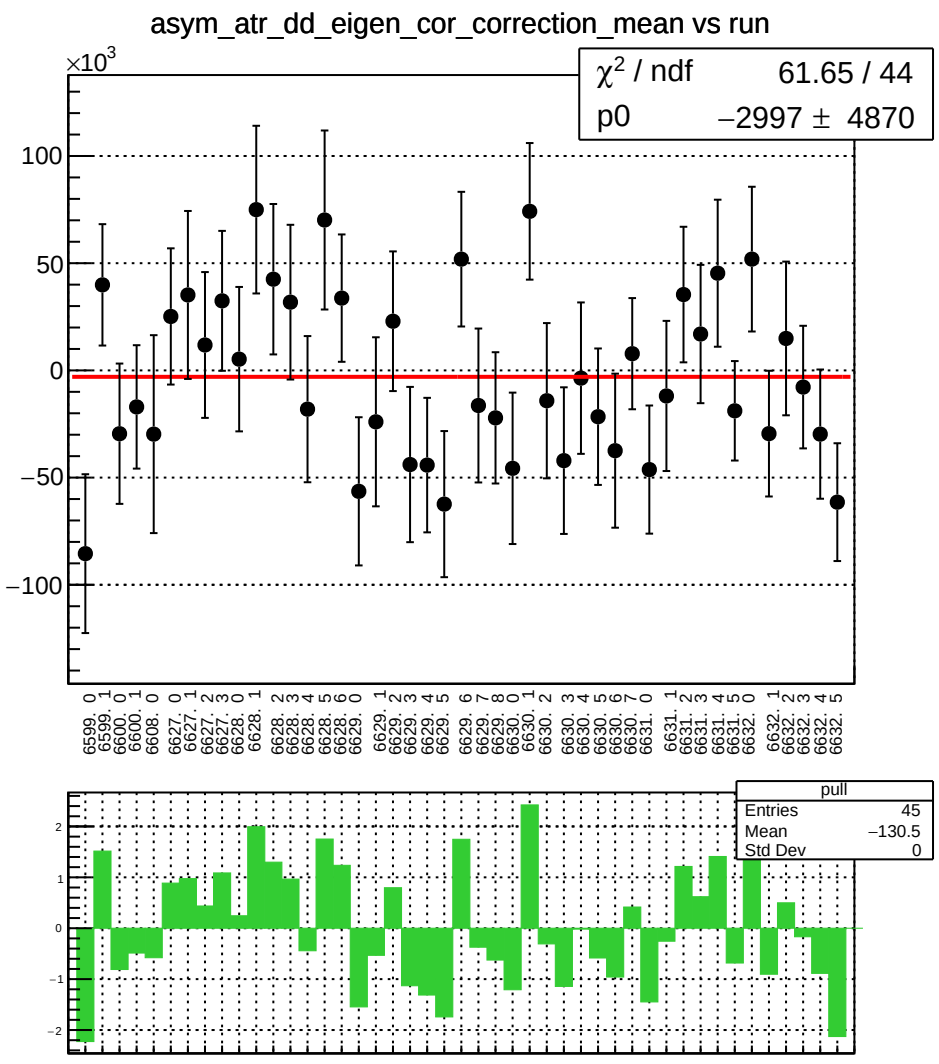
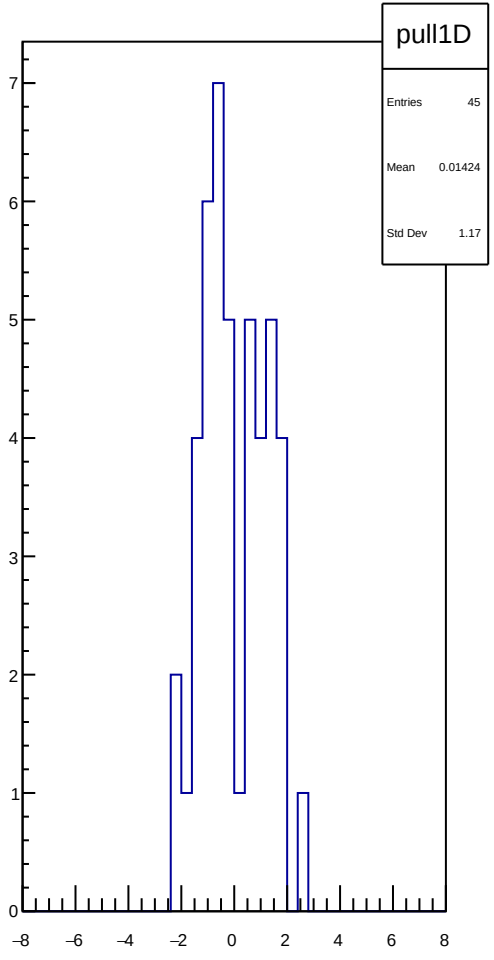
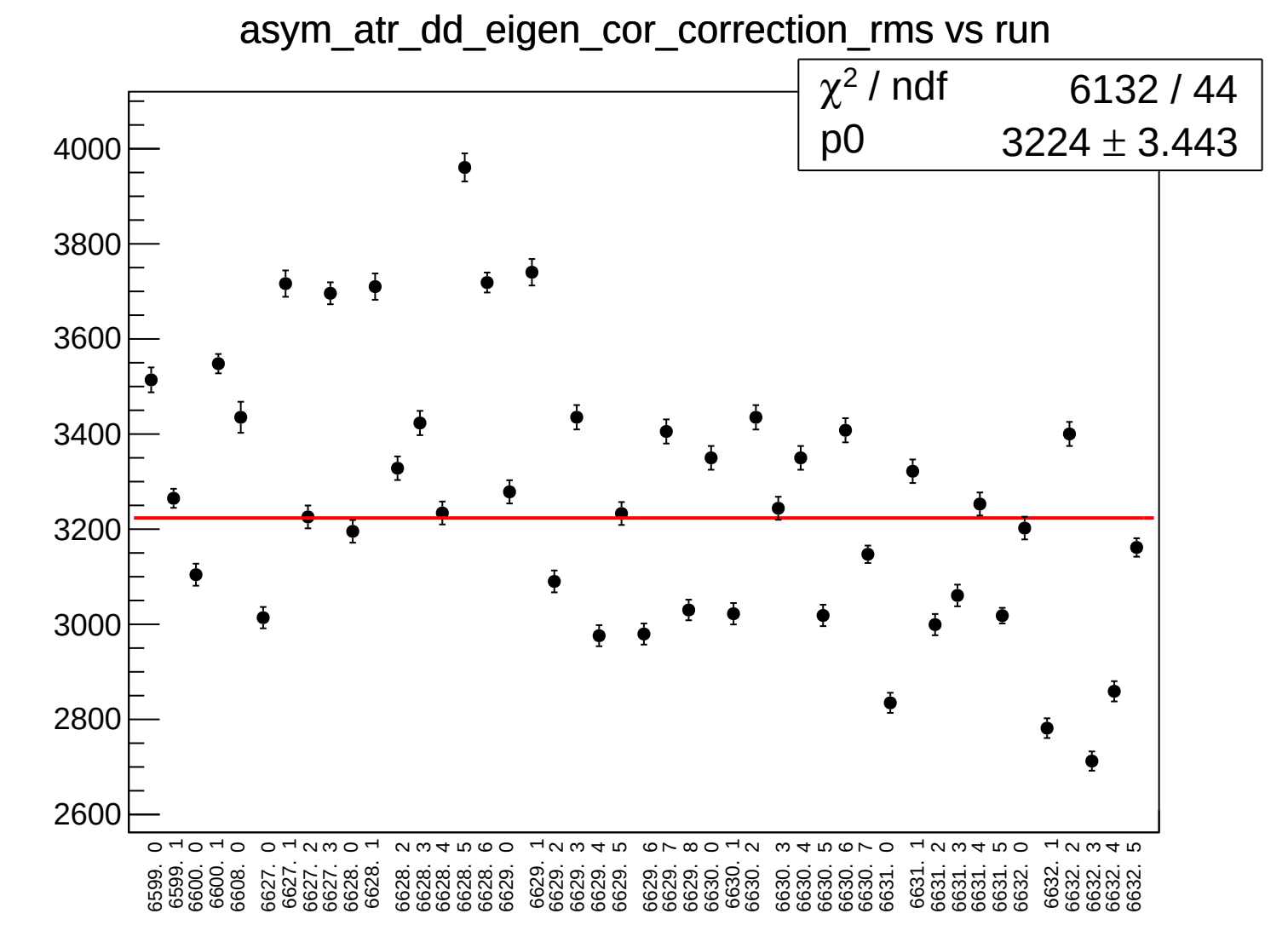
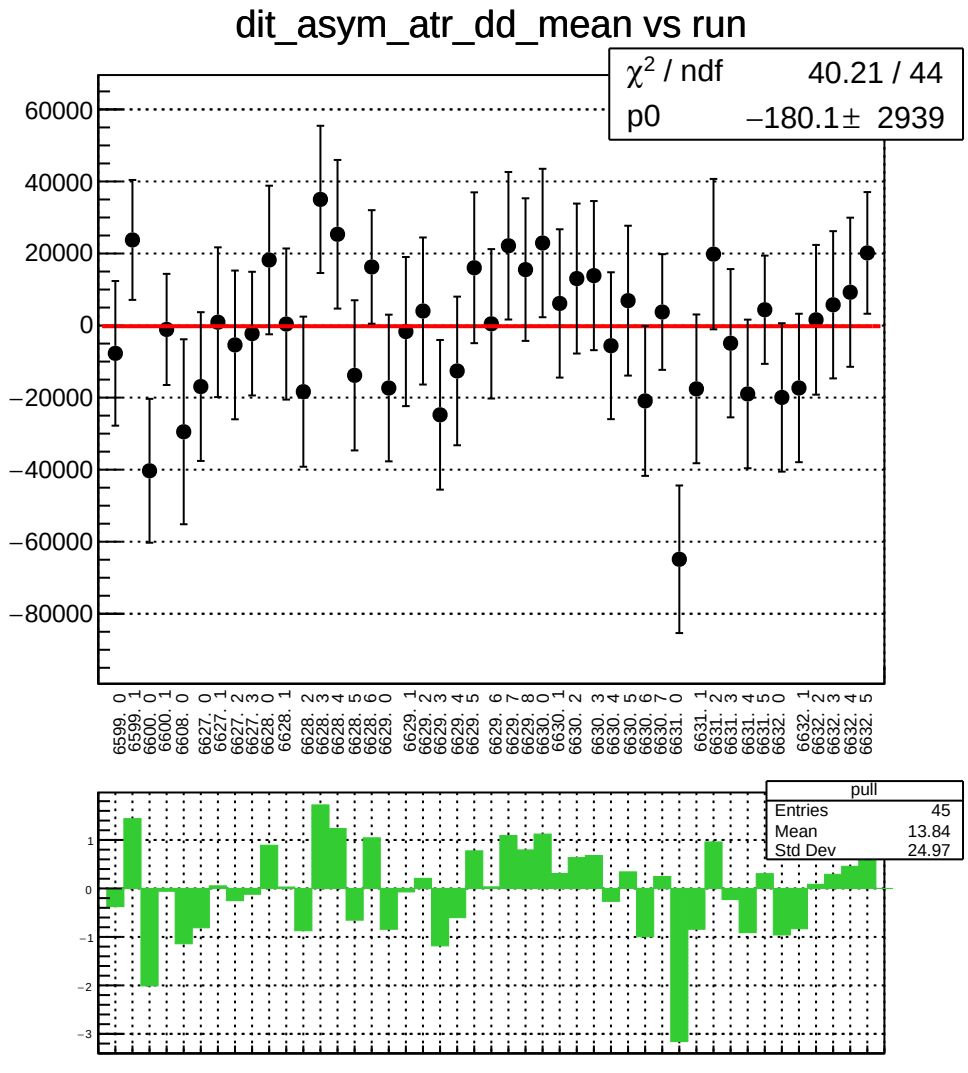
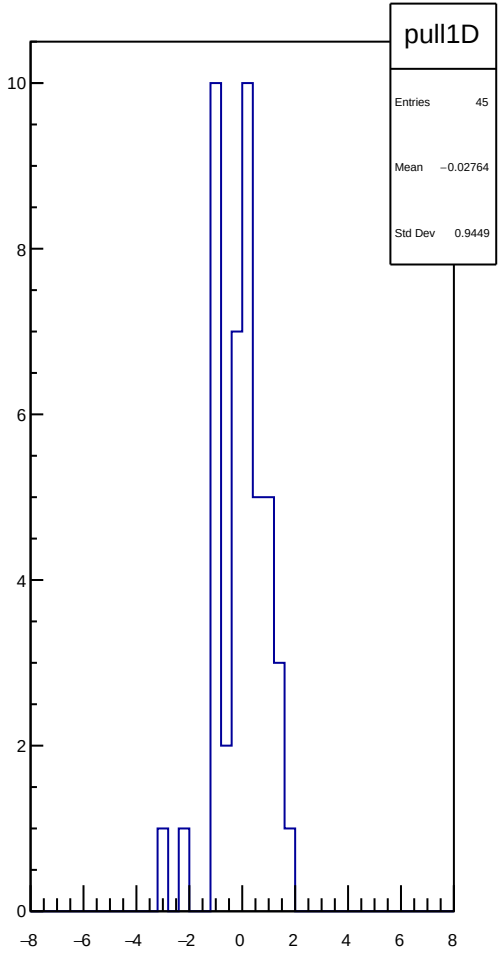
6632. 4
6632. 5

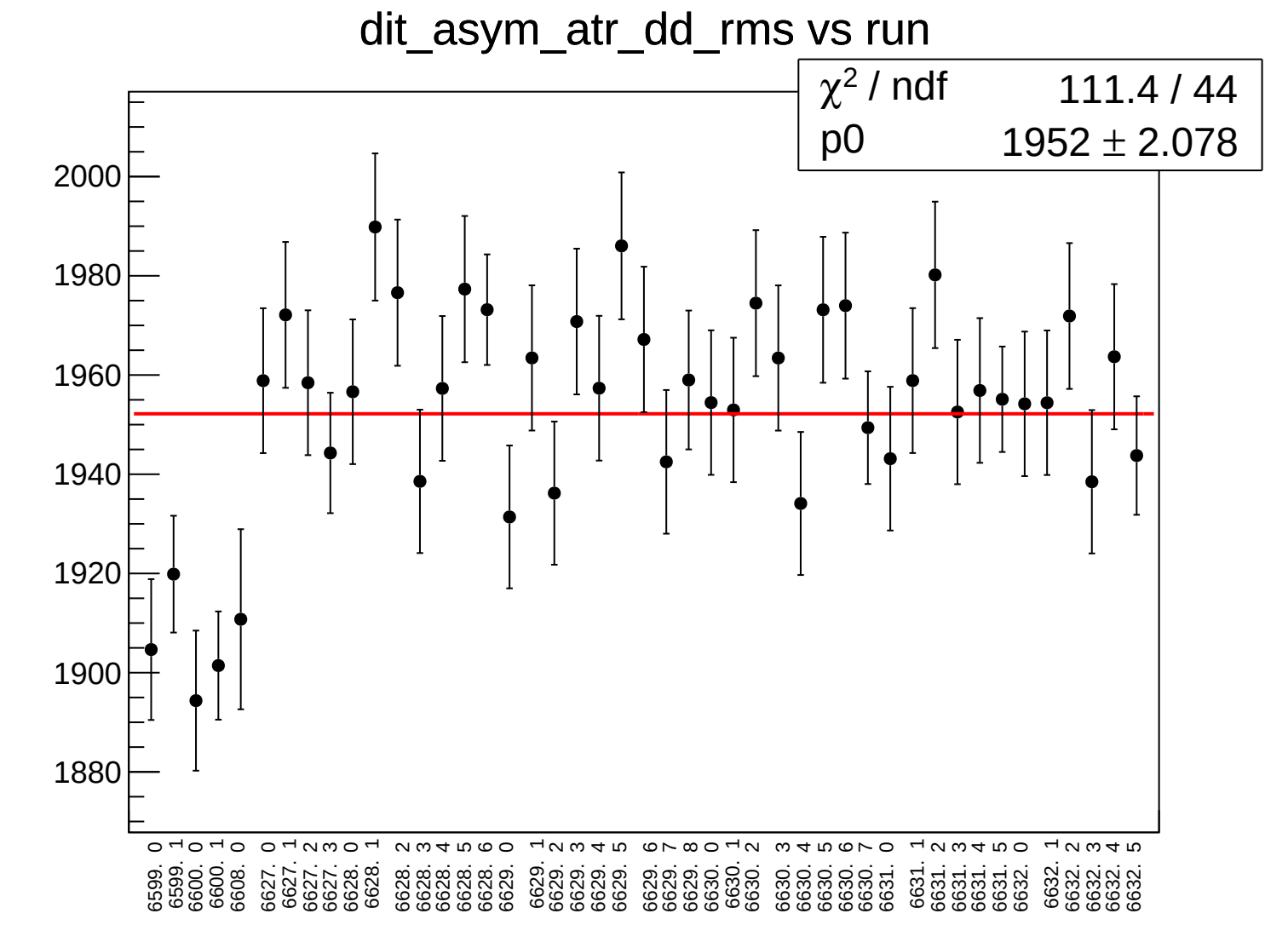

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 61.65 / 44
p0 −2997 ± 4870
100
50
0
−50
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −130.5
Std Dev 0
2
1
0
−1
−2

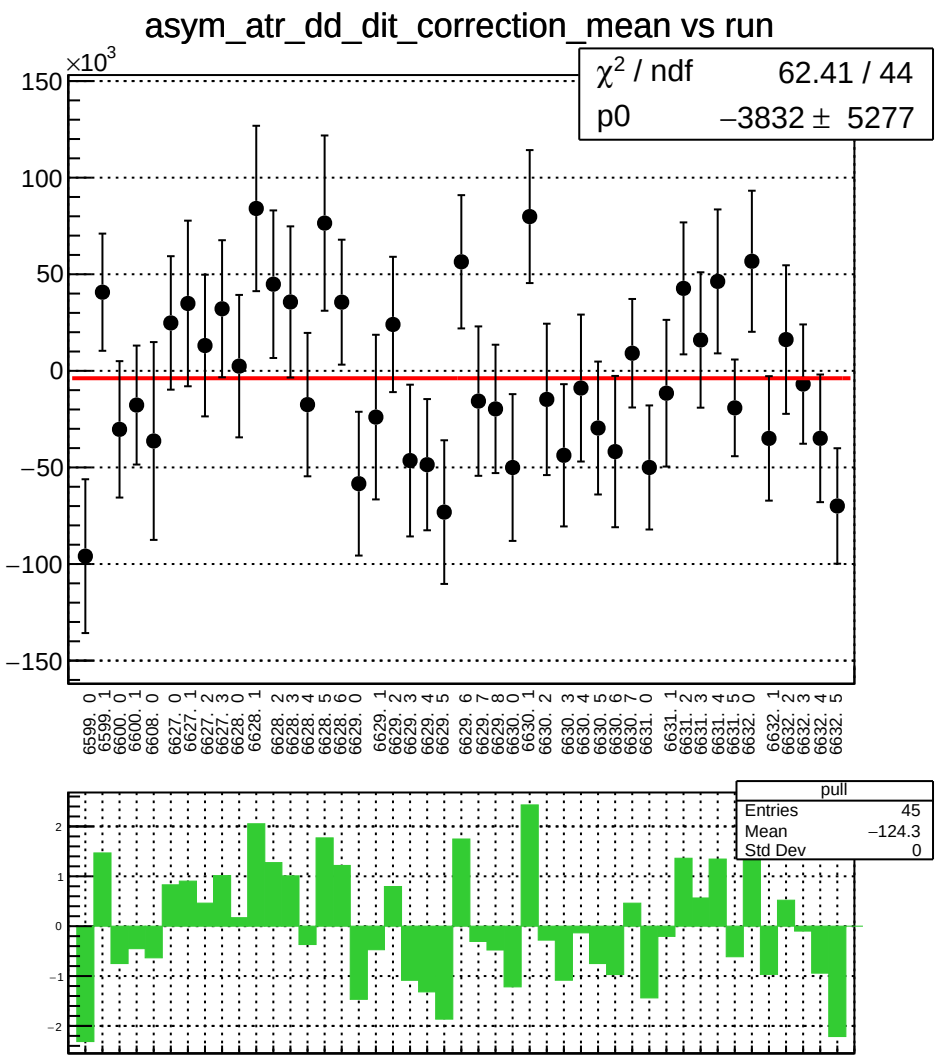

pull1D
Entries 45
Mean 0.01424
Std Dev 1.17
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

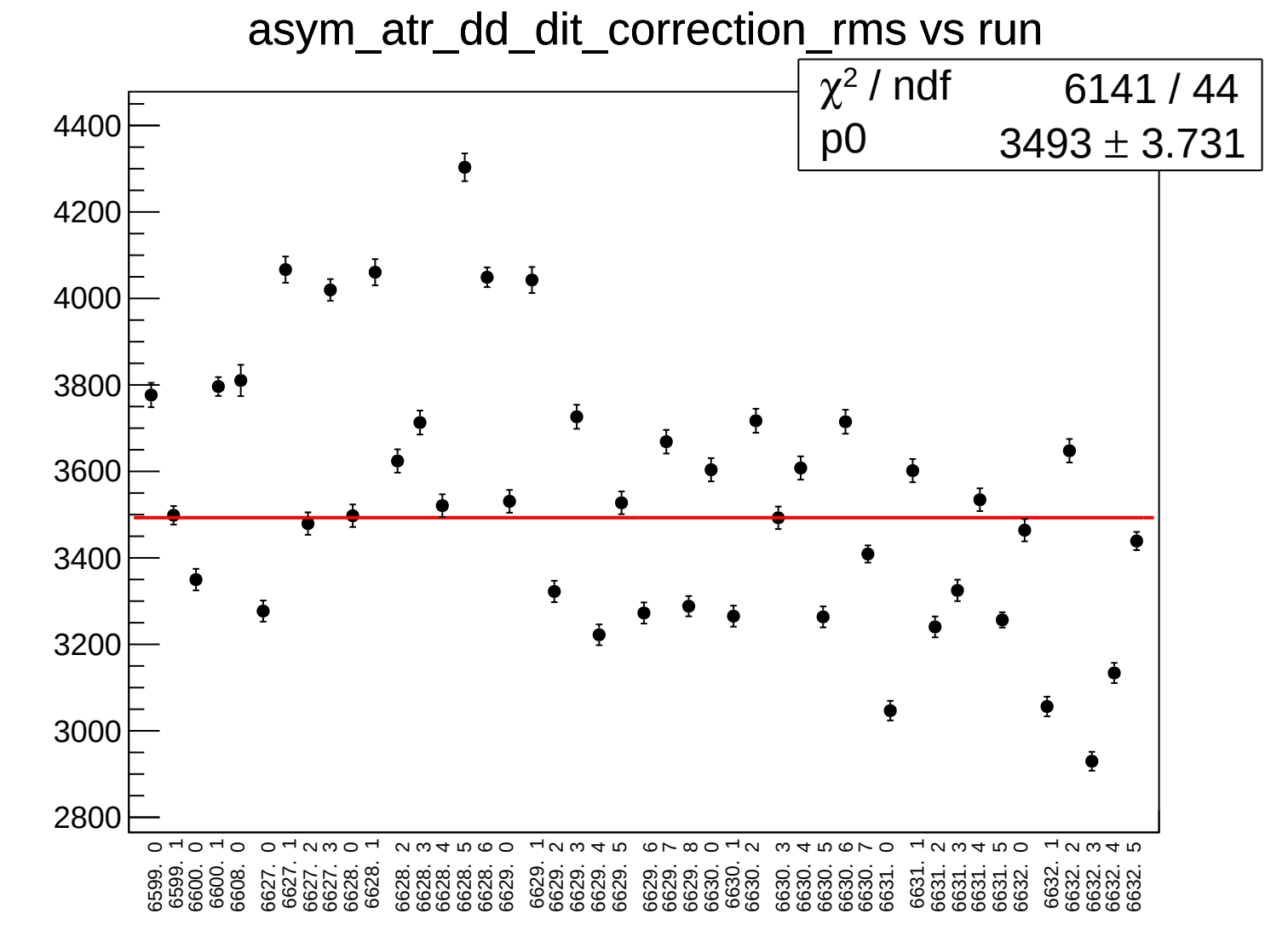

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 6132 / 44
p0 3224 ± 3.443
4000
3800
3600
3400
3200
3000
2800
2600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

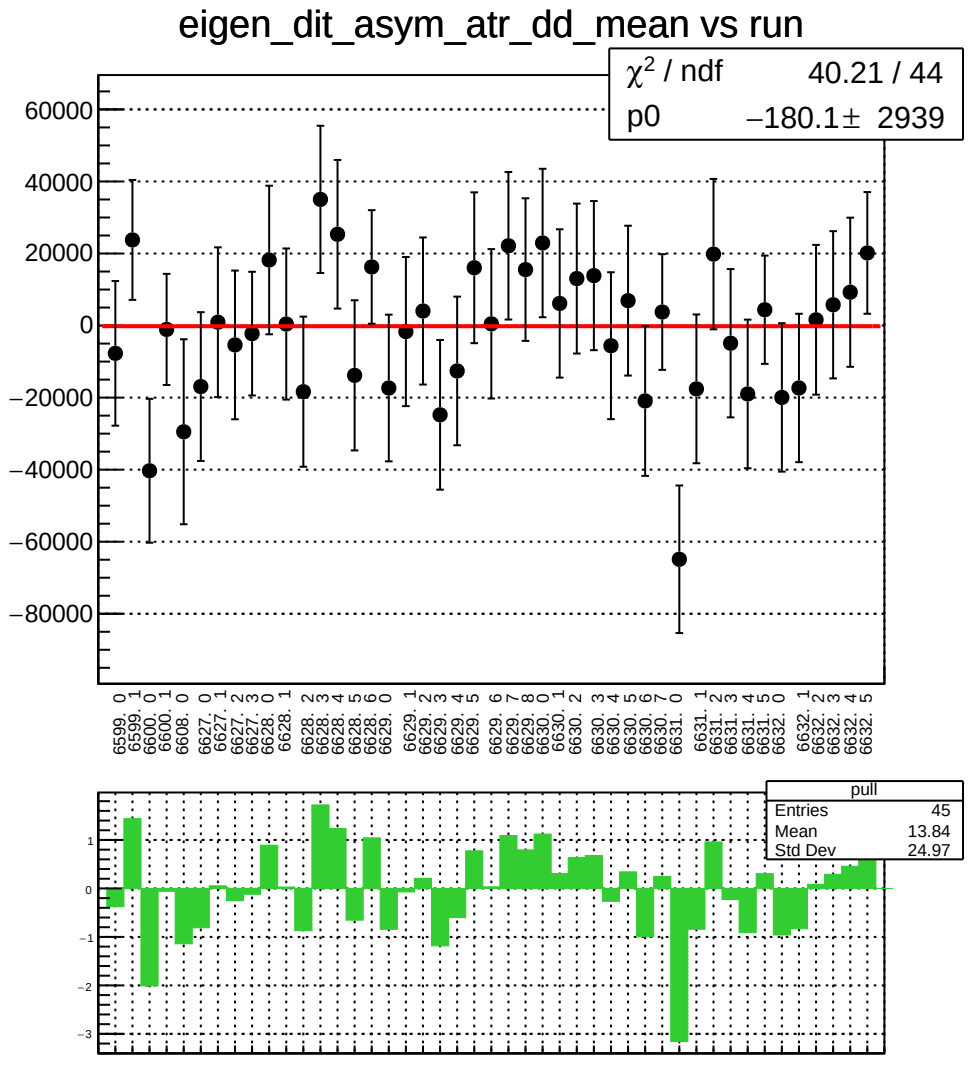

dit_asym_atr_dd_mean vs run
χ² / ndf 40.21 / 44
p0 −180.1± 2939
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 13.84
Std Dev 24.97
1
0
−1
−2
−3

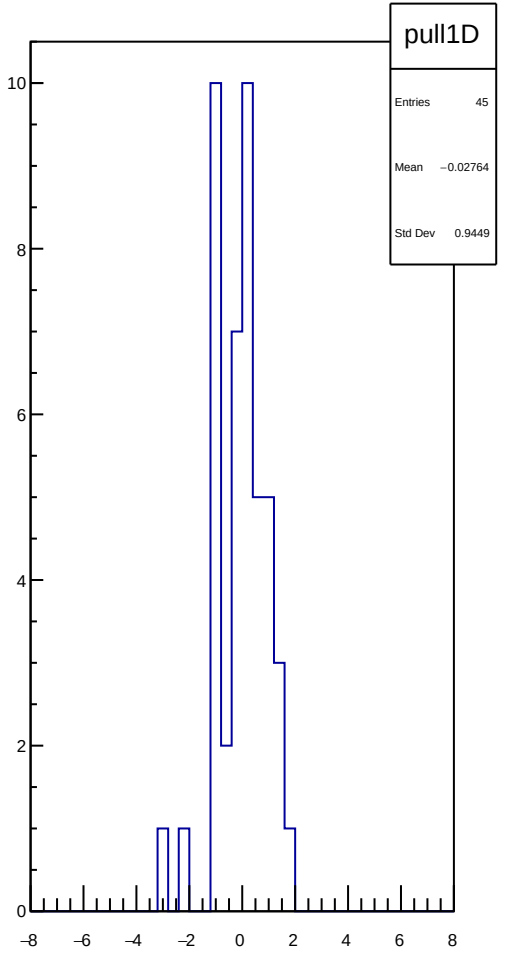

pull1D
Entries 45
Mean −0.02764
Std Dev 0.9449
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

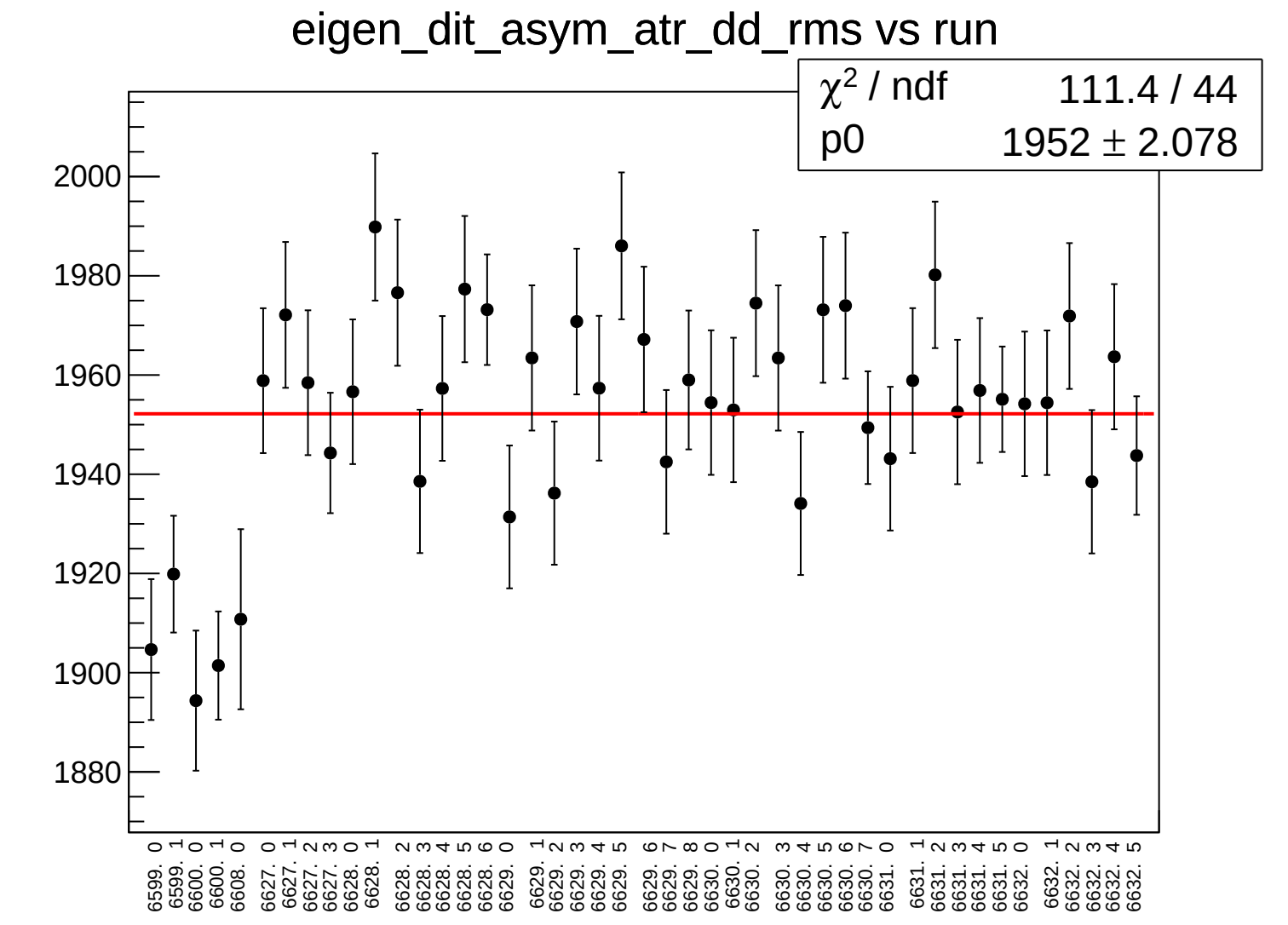

dit_asym_atr_dd_rms vs run
χ² / ndf 111.4 / 44
p0 1952 ± 2.078
2000
1980
1960
1940
1920
1900
1880
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

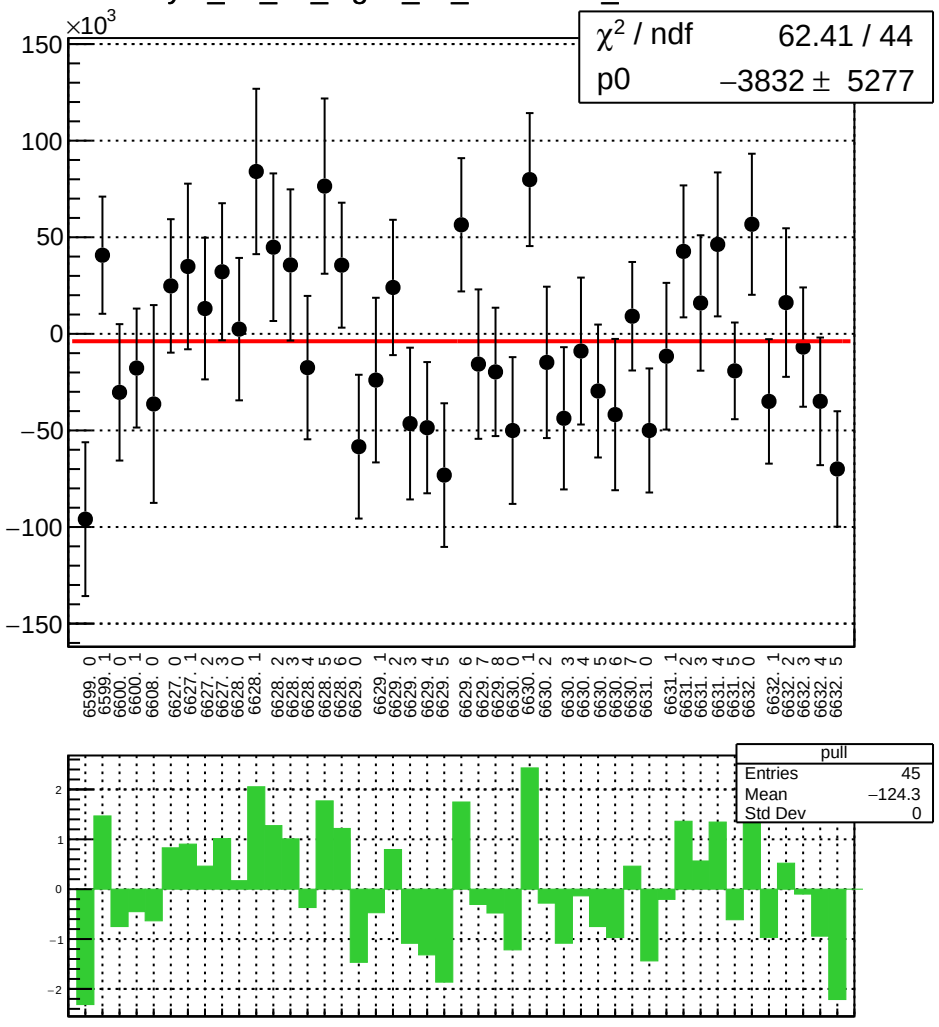

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 62.41 / 44
p0 −3832 ± 5277
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −124.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01444
Std Dev 1.178
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

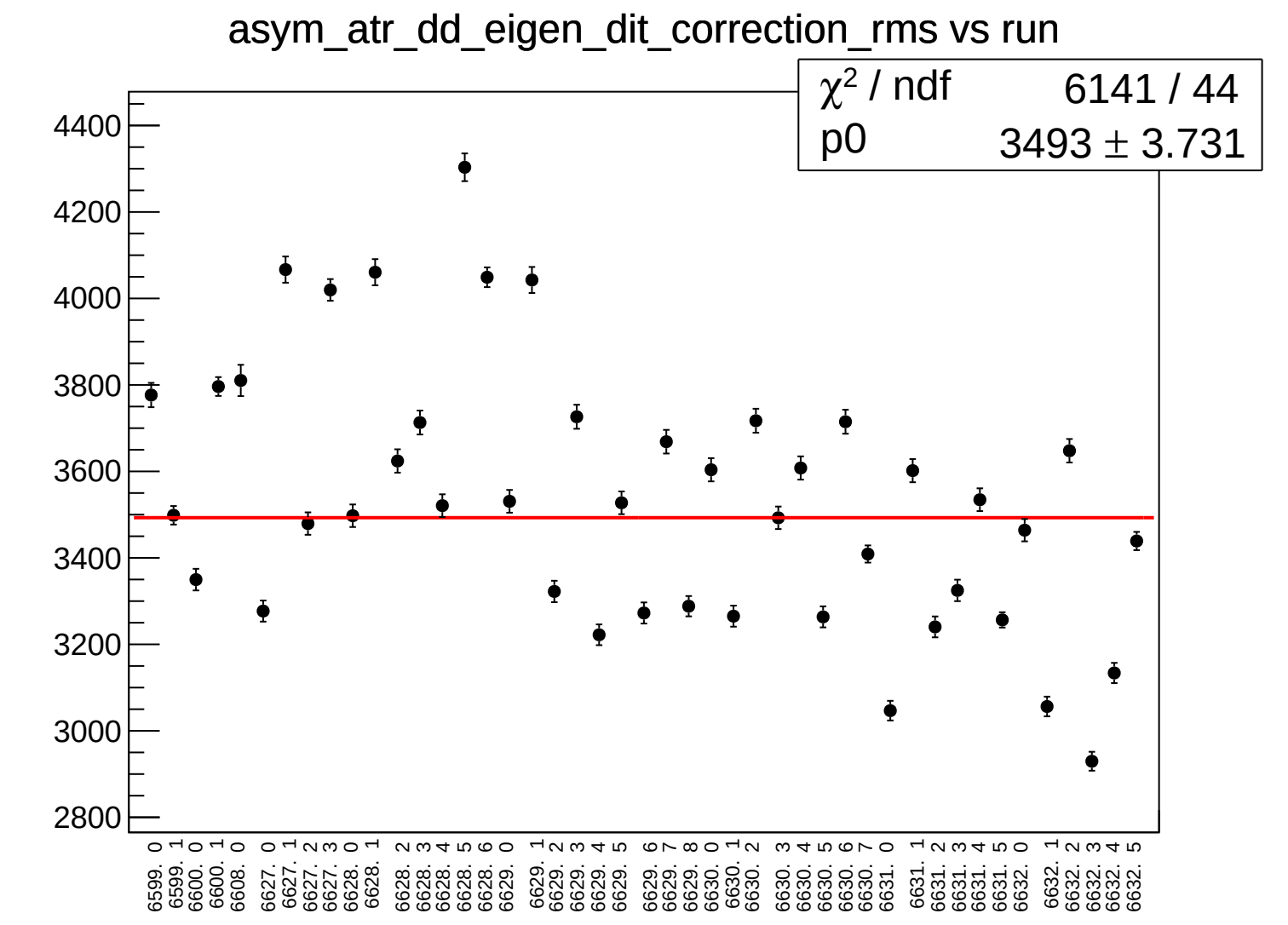

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 6141 / 44
p0 3493 ± 3.731
4400
4200
4000
3800
3600
3400
3200
3000
2800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 40.21 / 44
p0 −180.1± 2939
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 13.84
Std Dev 24.97
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.02764
Std Dev 0.9449
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 111.4 / 44
p0 1952 ± 2.078
2000
1980
1960
1940
1920
1900
1880
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 62.41 / 44
p0 −3832 ± 5277
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −124.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01444
Std Dev 1.178
7
6
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 6141 / 44
p0 3493 ± 3.731
4400
4200
4000
3800
3600
3400
3200
3000
2800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
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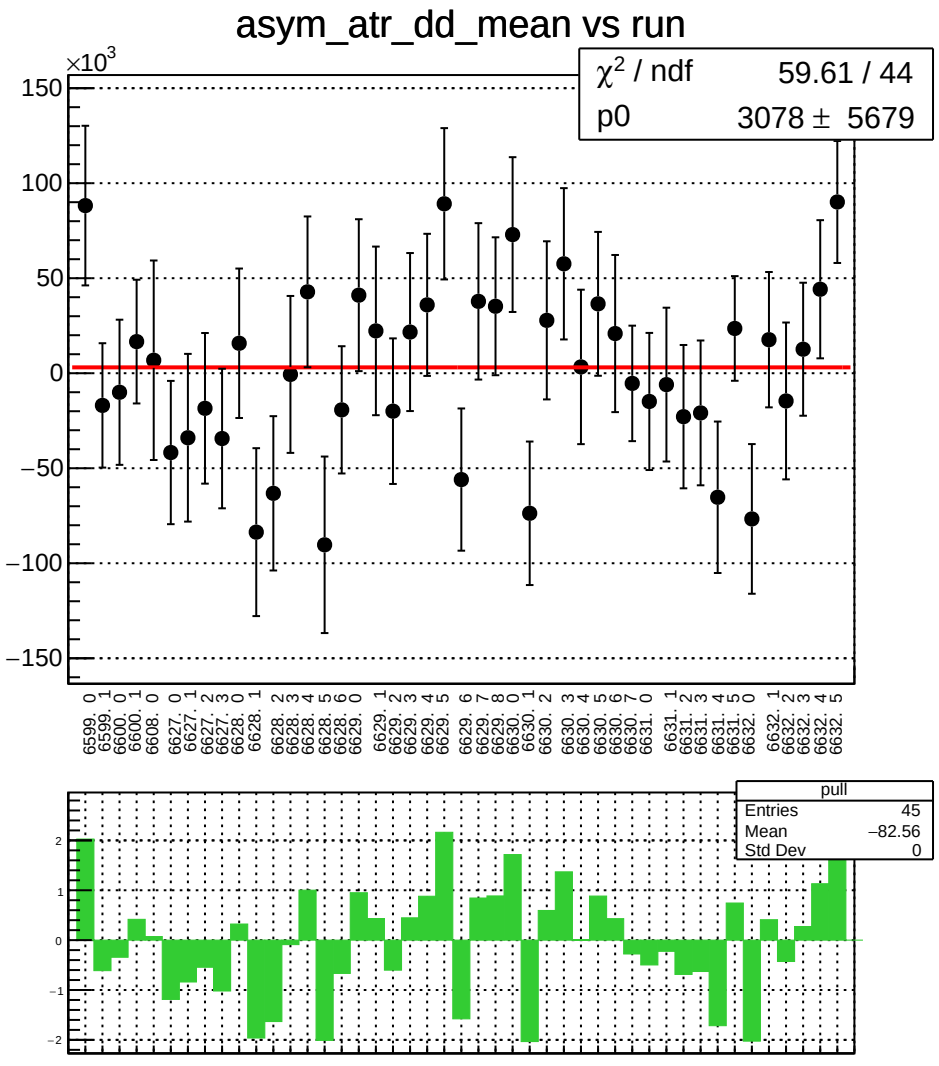
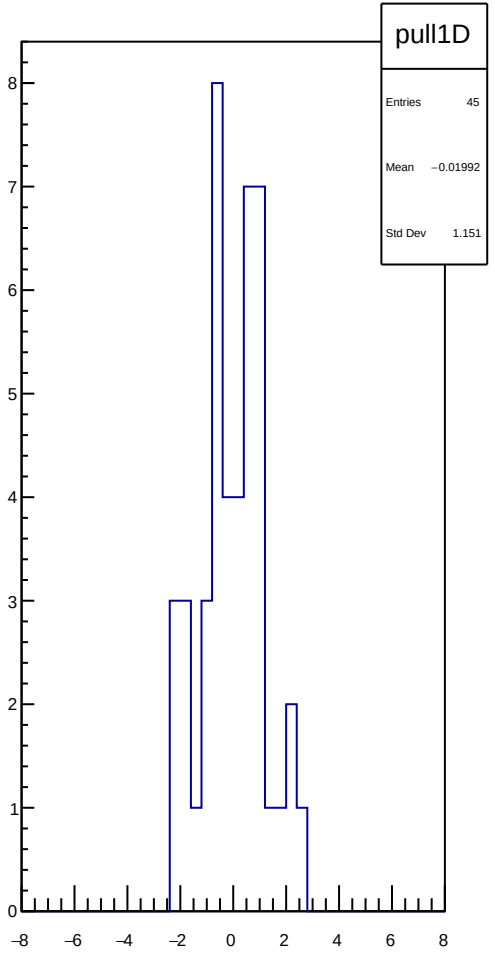
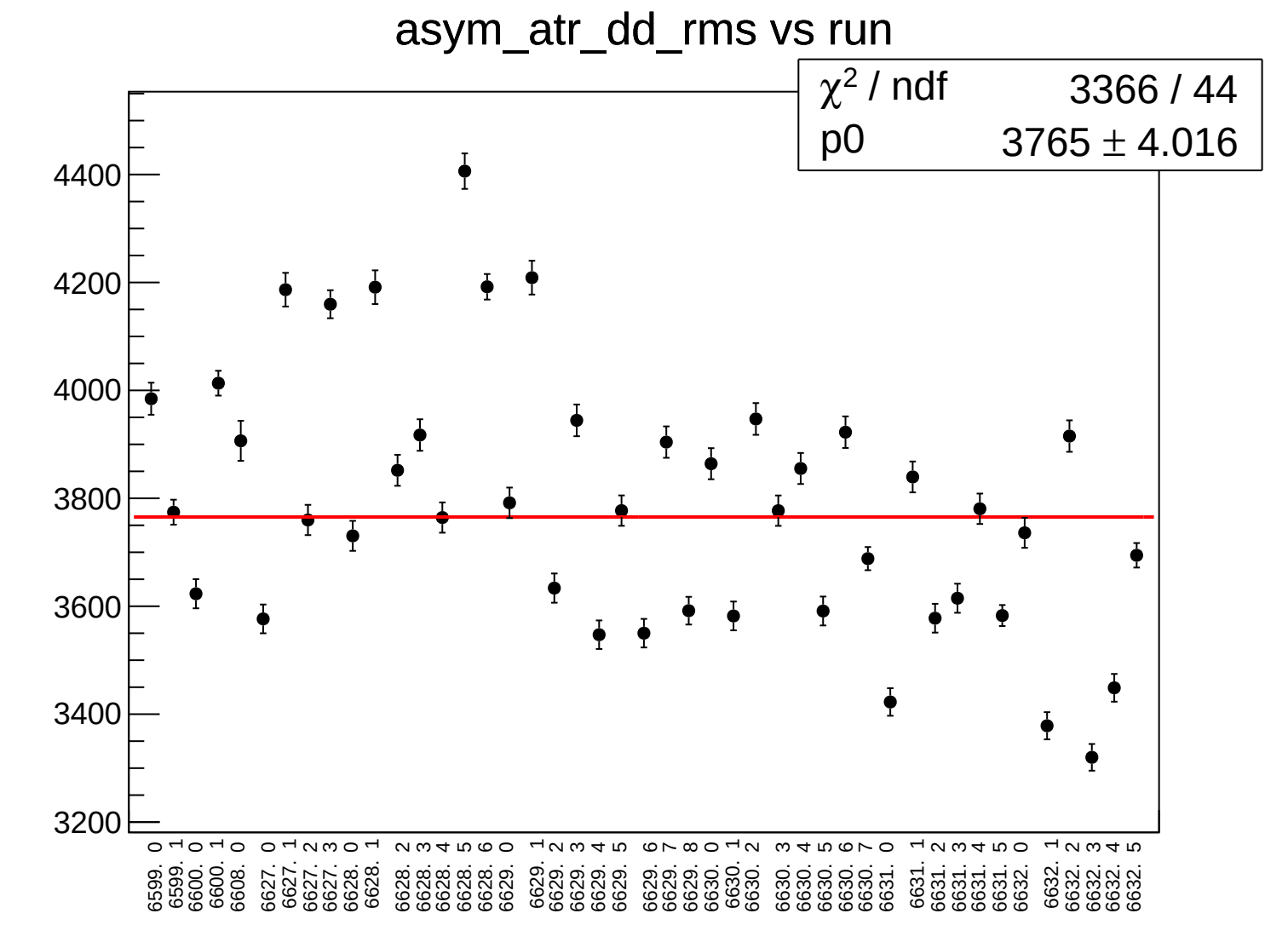
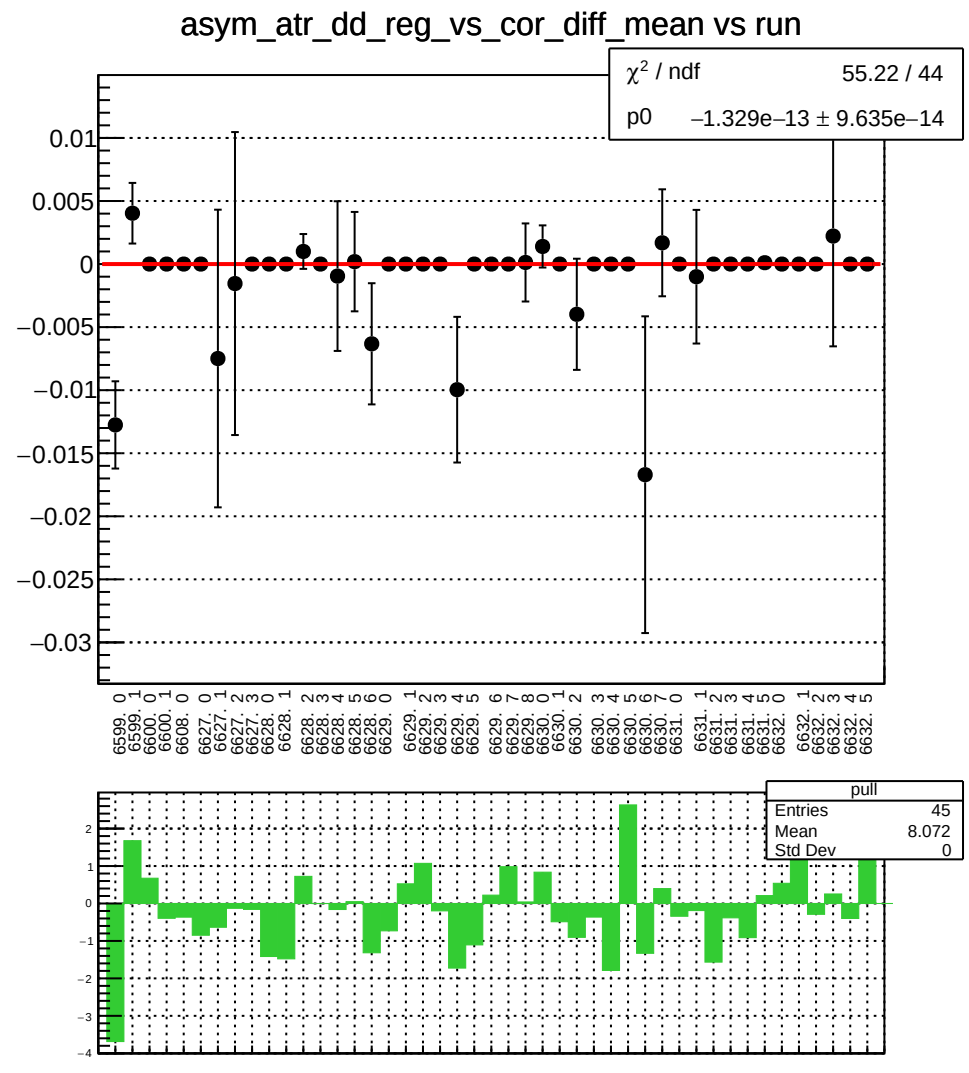
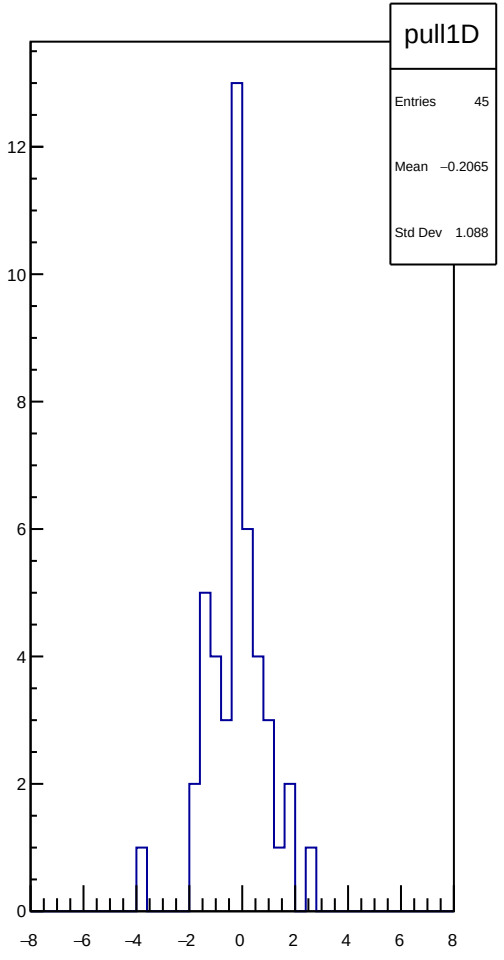
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

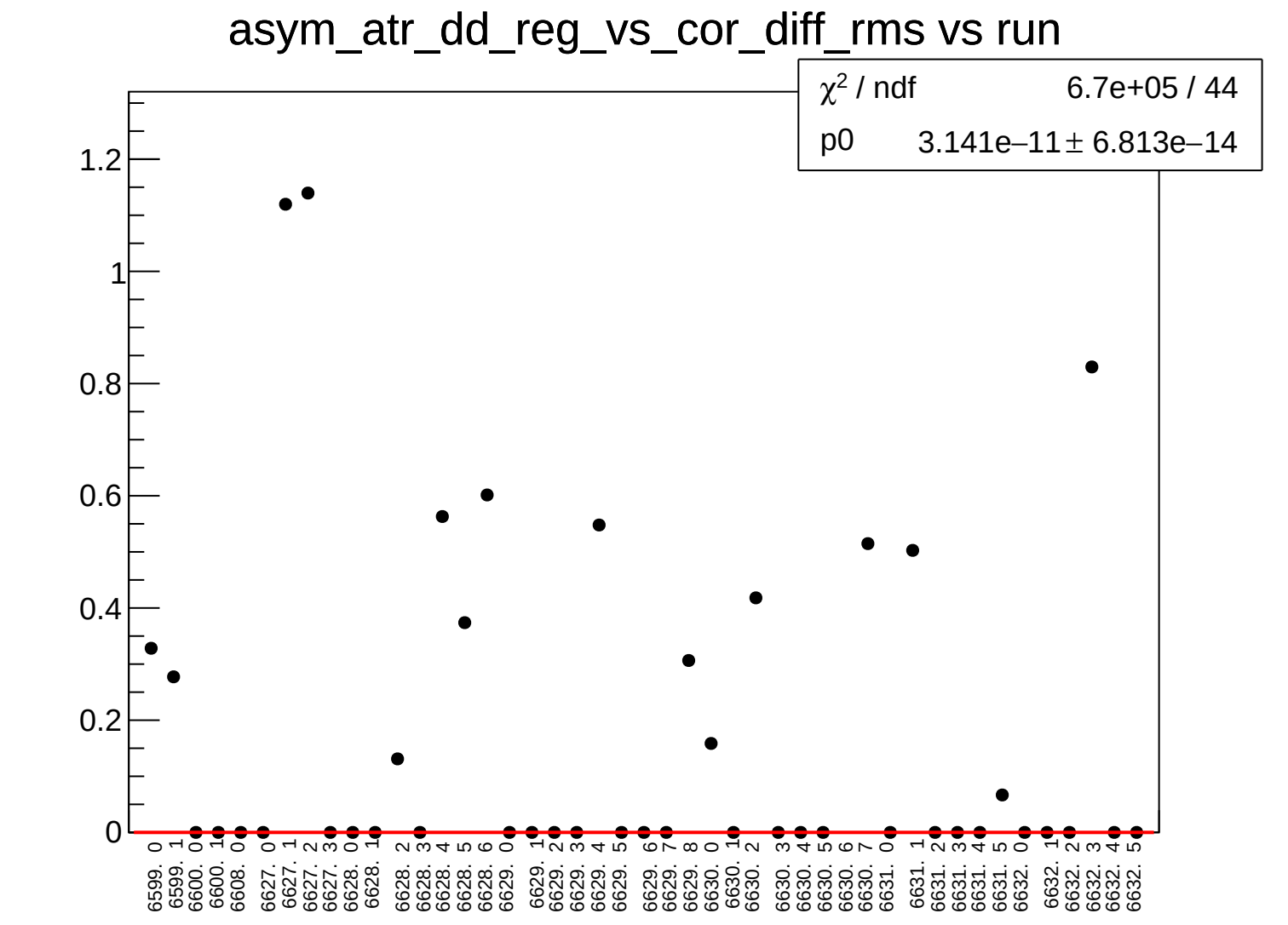

asym_atr_dd_mean vs run
×10^3
χ² / ndf 59.61 / 44
p0 3078 ± 5679
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −82.56
Std Dev 0
2
1
0
−1
−2

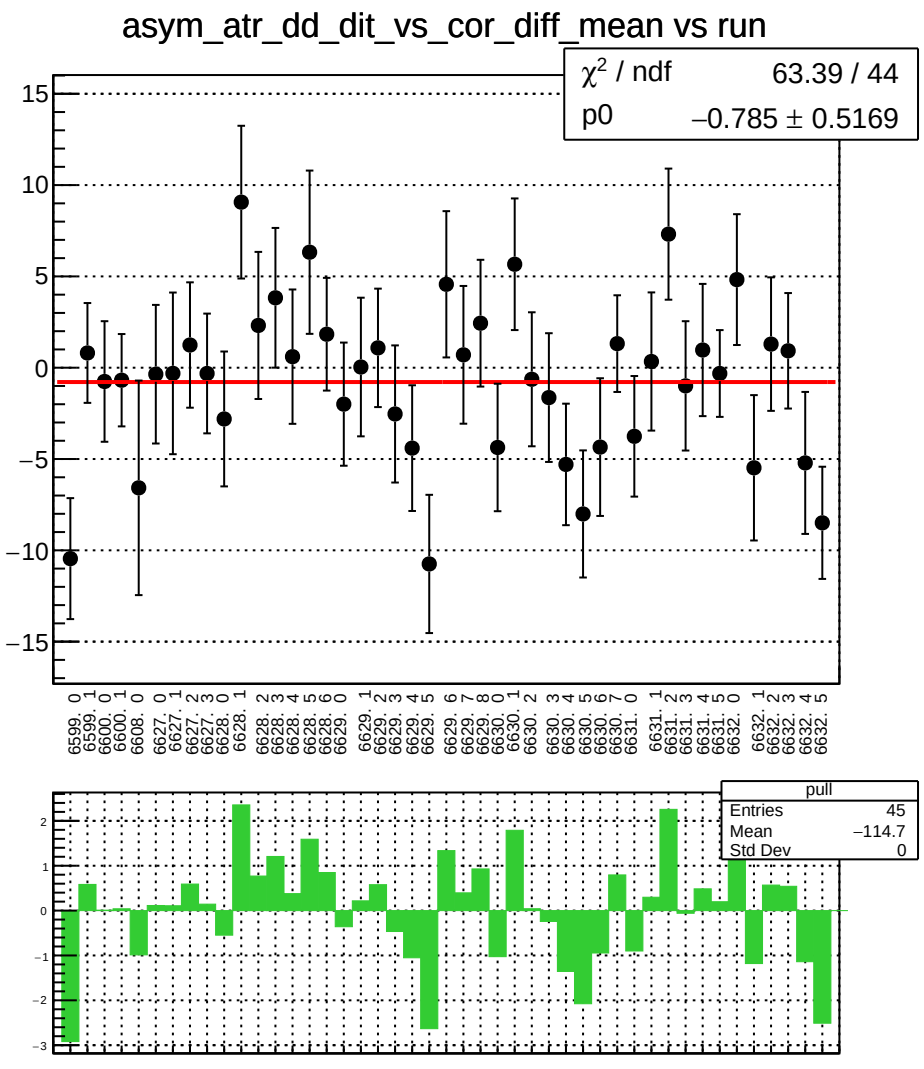

pull1D
Entries 45
Mean −0.01992
Std Dev 1.151
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

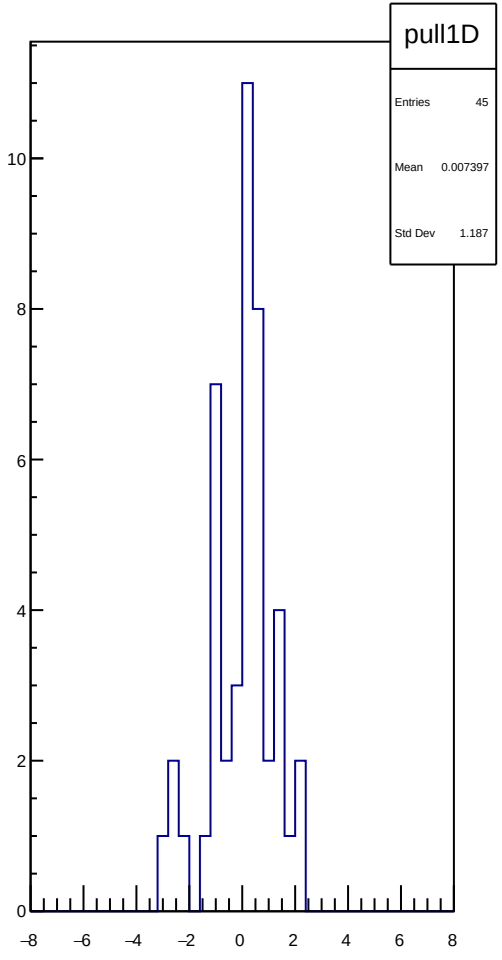

asym_atr_dd_rms vs run
χ² / ndf 3366 / 44
p0 3765 ± 4.016
4400
4200
4000
3800
3600
3400
3200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

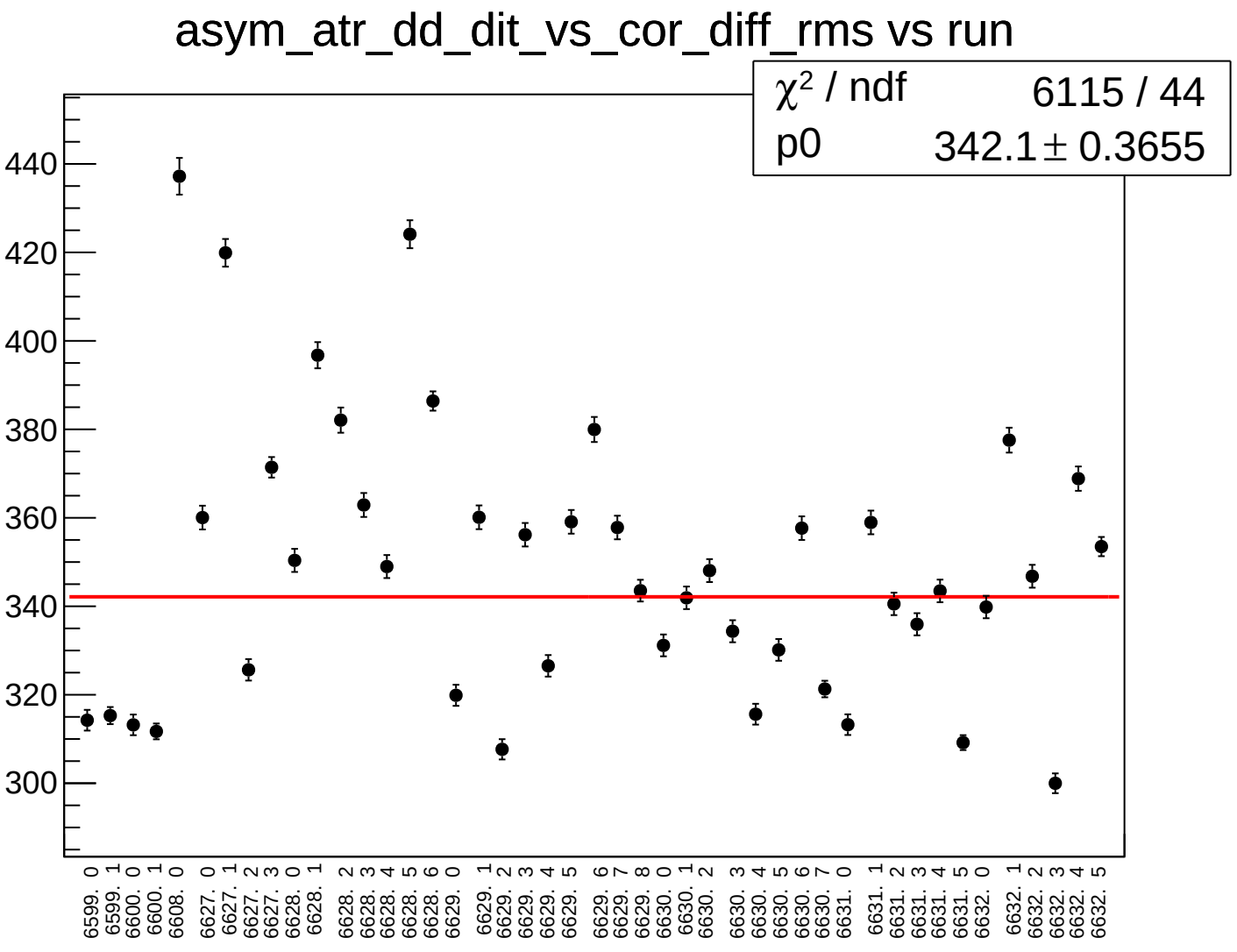

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 55.22 / 44
p0 −1.329e−13 ± 9.635e−14
pull
Entries 45
Mean 8.072
Std Dev 0

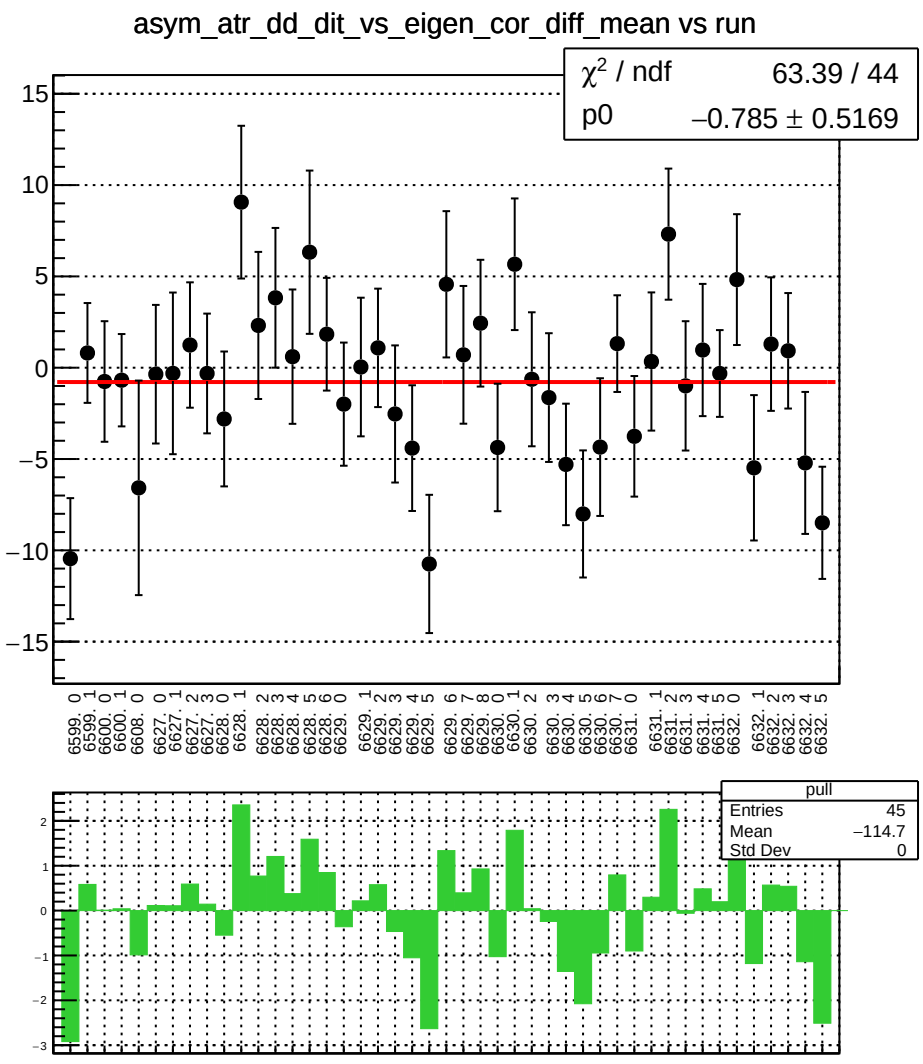

pull1D
Entries 45
Mean −0.2065
Std Dev 1.088

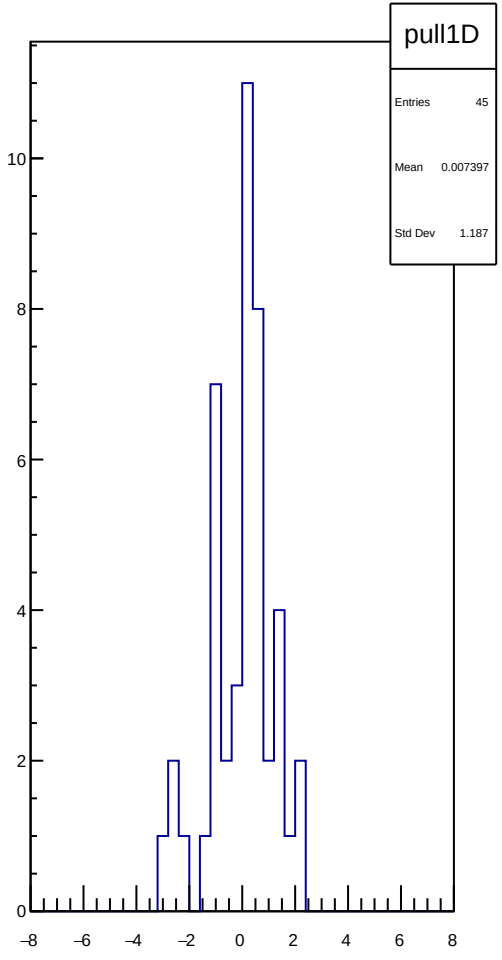

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.7e+05 / 44
p0 3.141e−11 ± 6.813e−14
1.2
1
0.8
0.6
0.4
0.2
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

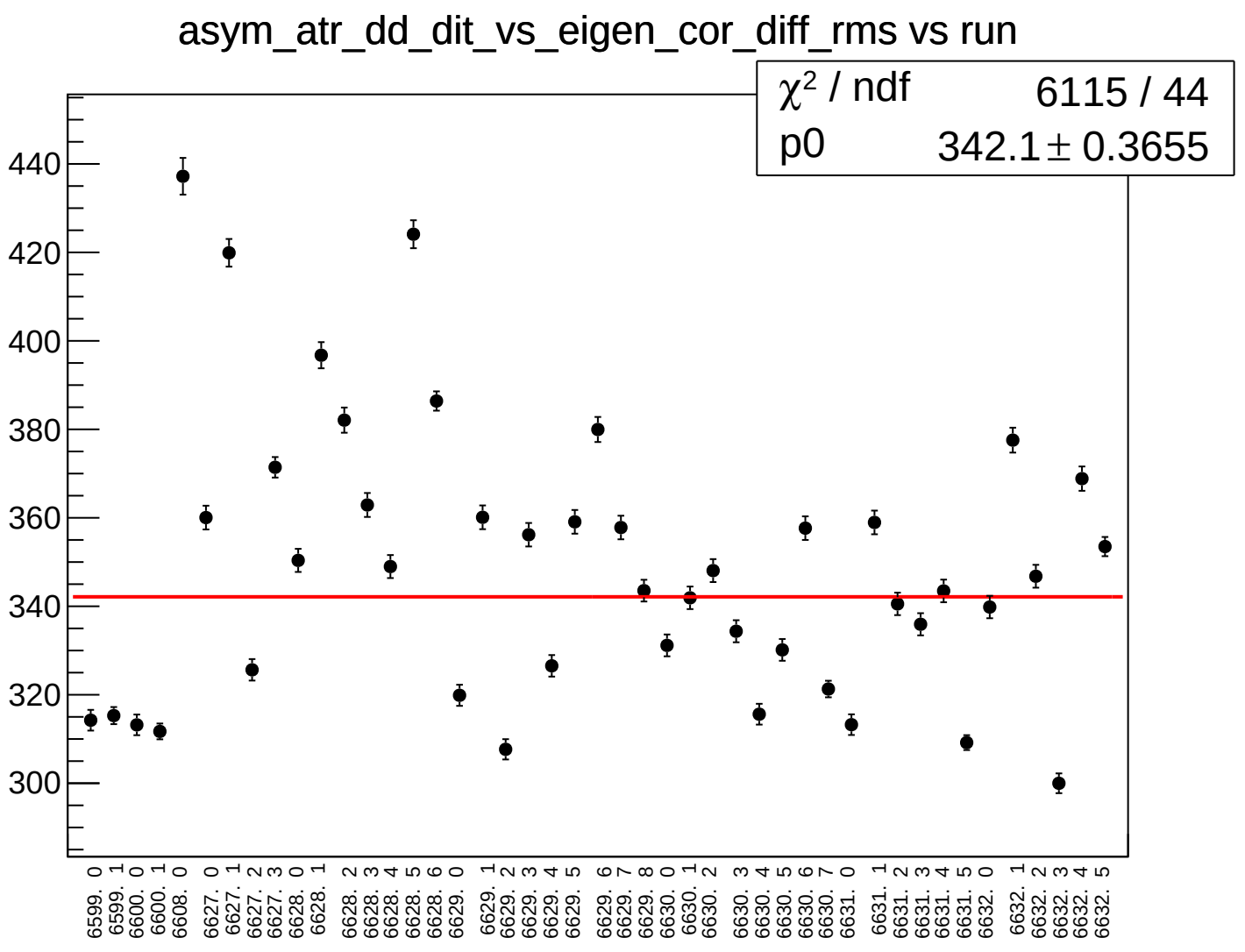

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 63.39 / 44
p0 −0.785 ± 0.5169
15
10
5
0
−5
−10
−15
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −114.7
Std Dev 0
2
1
0
−1
−2
−3

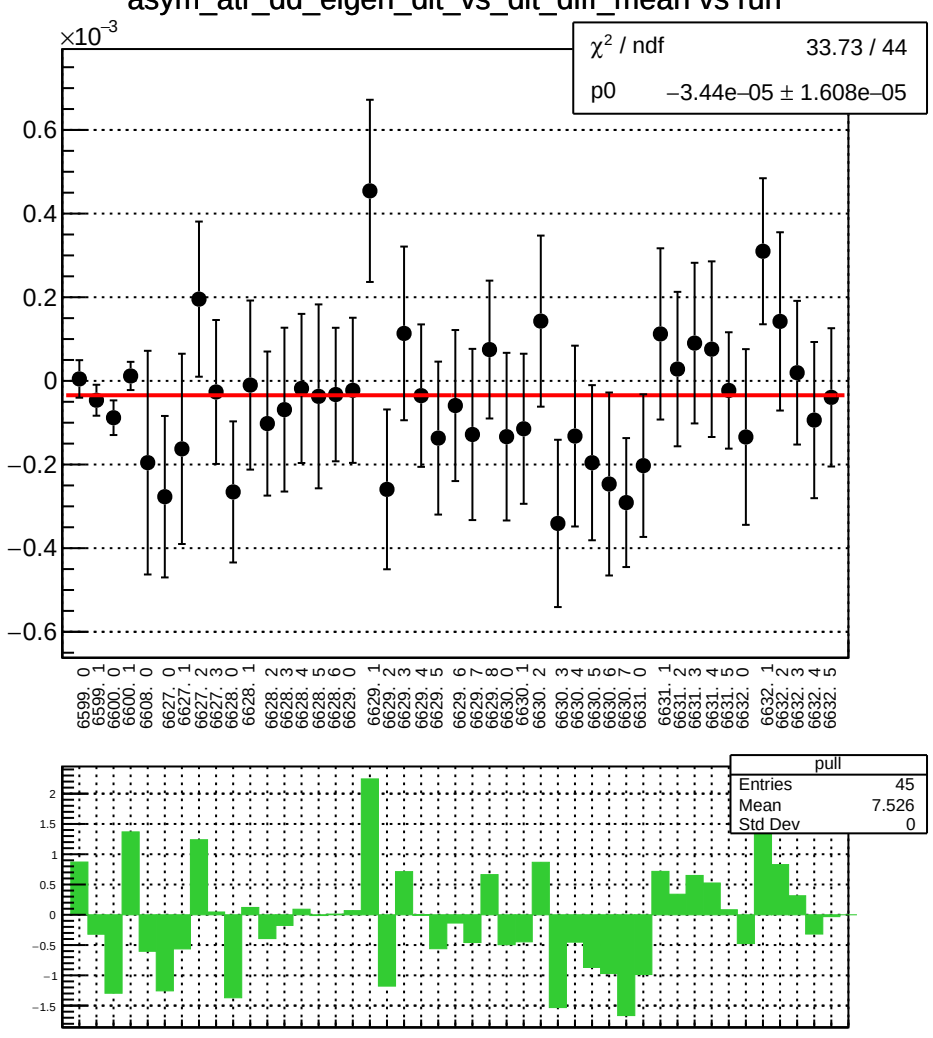

pull1D
Entries 45
Mean 0.007397
Std Dev 1.187
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

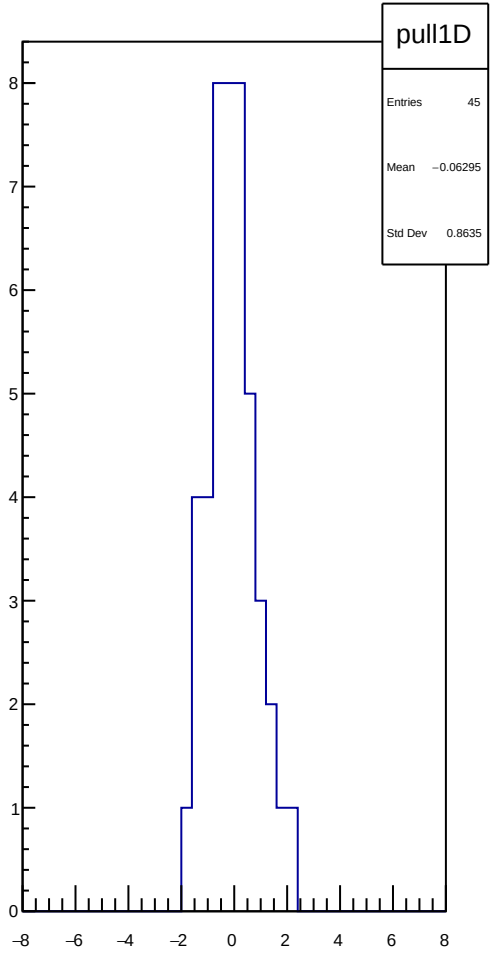

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6115 / 44
p0 342.1 ± 0.3655
440
420
400
380
360
340
320
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

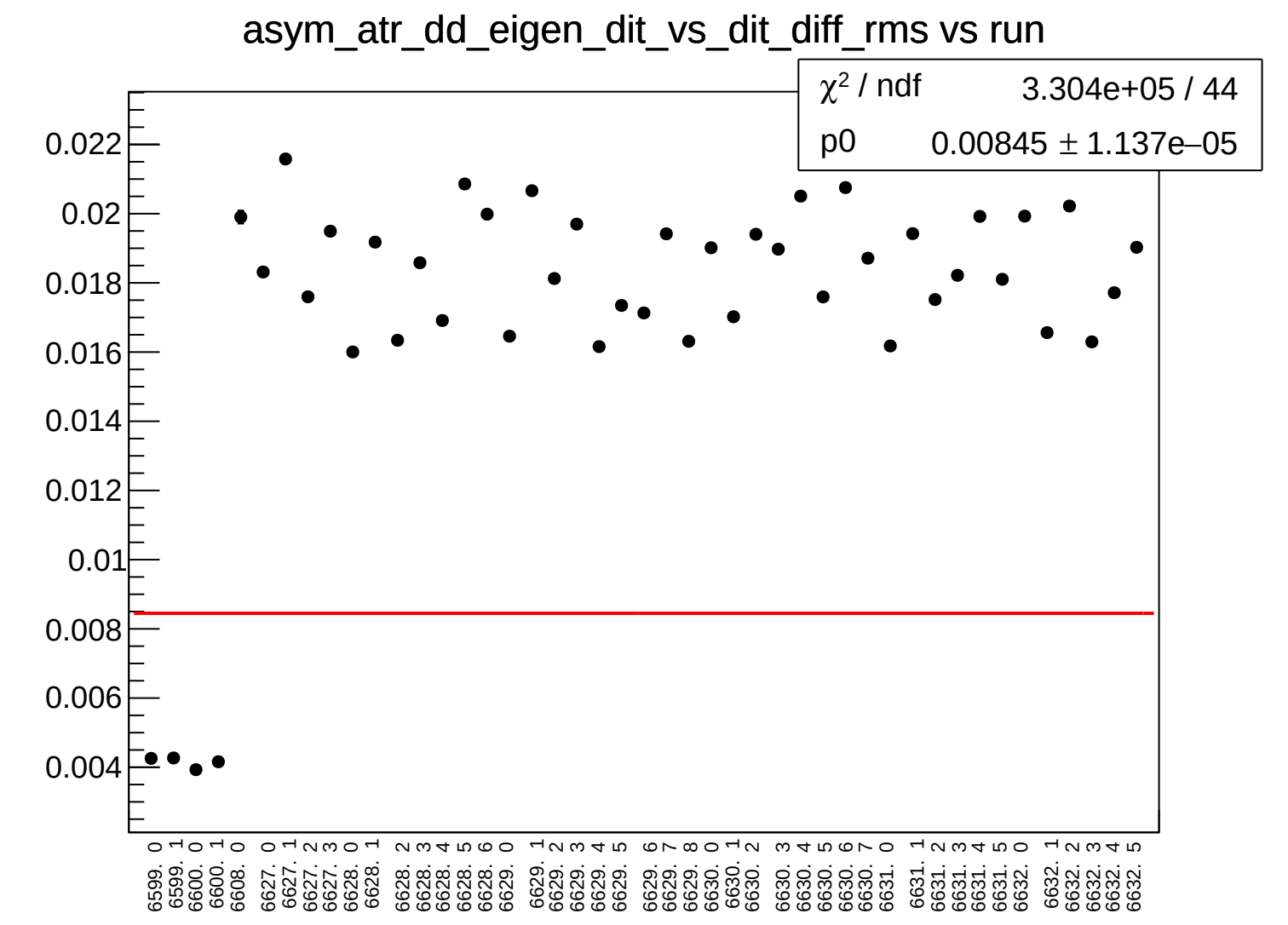

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.39 / 44
p0 −0.785 ± 0.5169
15
10
5
0
−5
−10
−15
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −114.7
Std Dev 0
2
1
0
−1
−2
−3

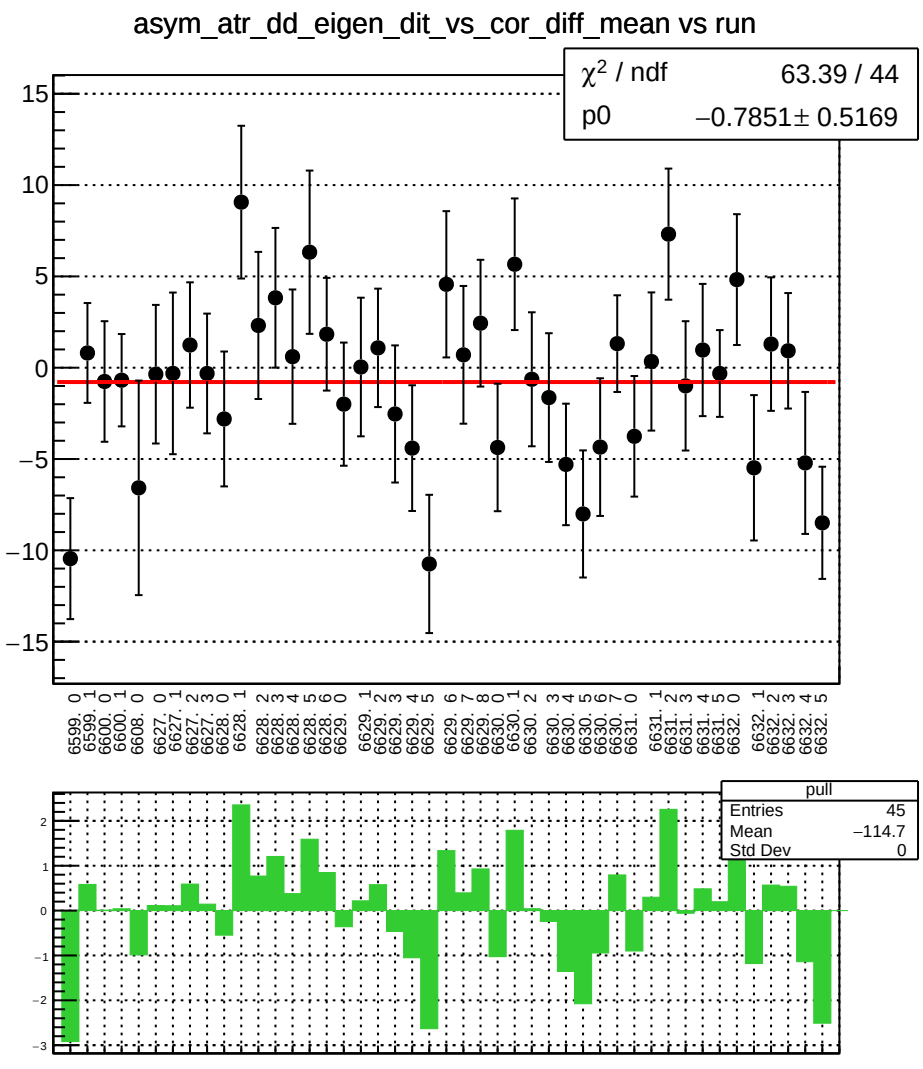

pull1D
Entries 45
Mean 0.007397
Std Dev 1.187
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

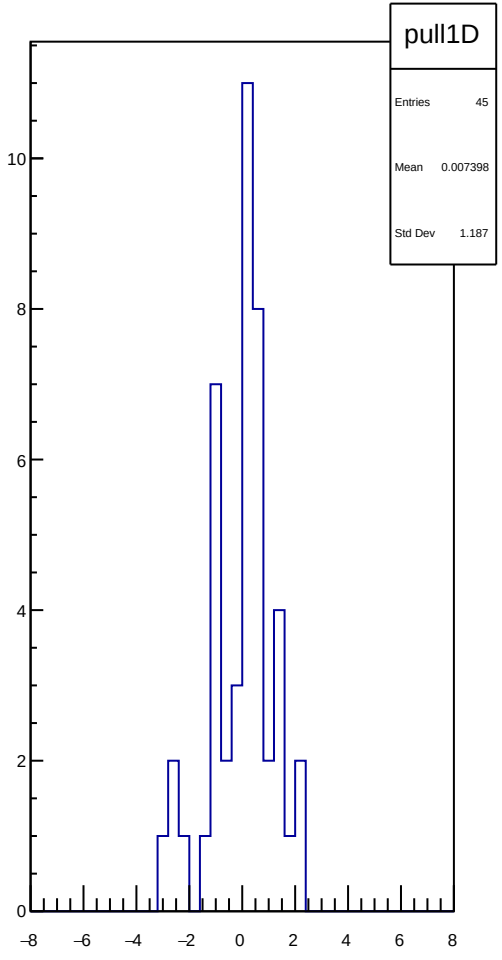

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6115 / 44
p0 342.1 ± 0.3655
440
420
400
380
360
340
320
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

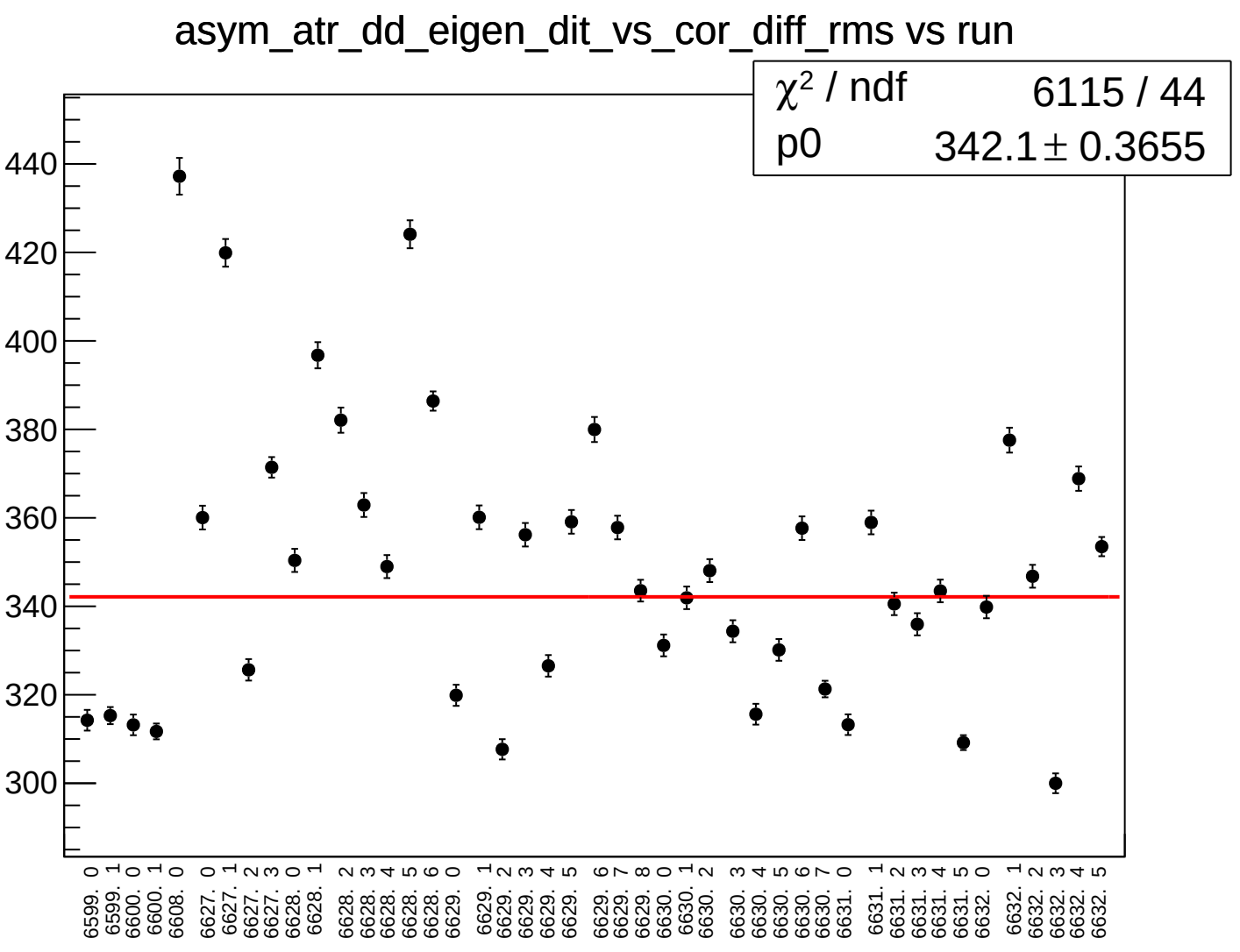

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 33.73 / 44
p0 −3.44e−05 ± 1.608e−05
pull
Entries 45
Mean 7.526
Std Dev 0

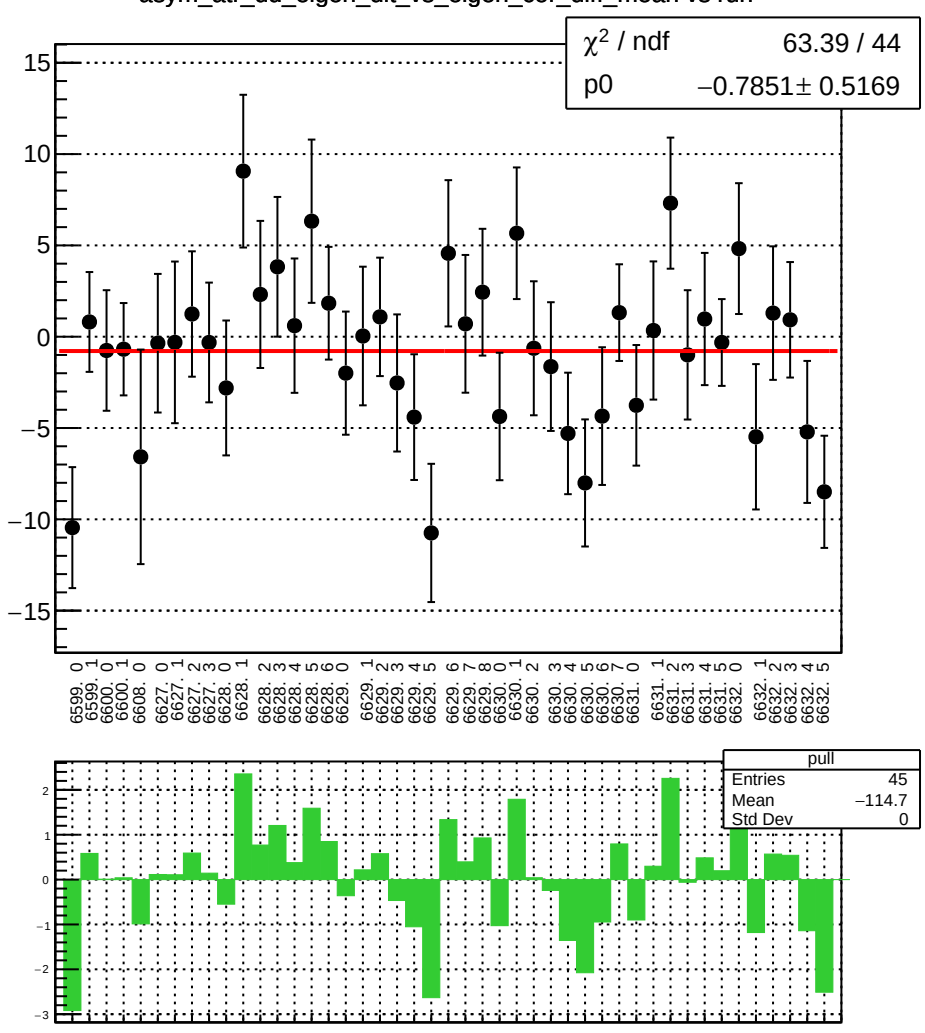

pull1D
Entries 45
Mean −0.06295
Std Dev 0.8635

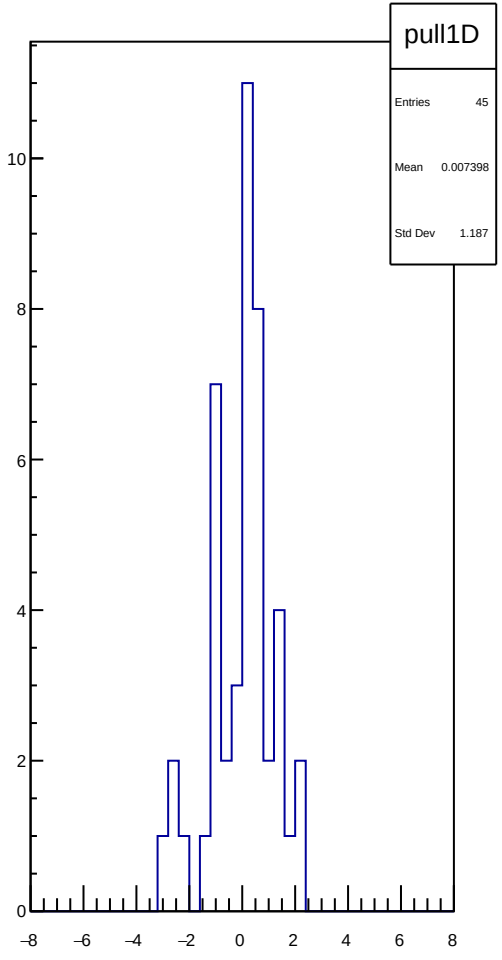

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.304e+05 / 44
p0 0.00845 ± 1.137e–05
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

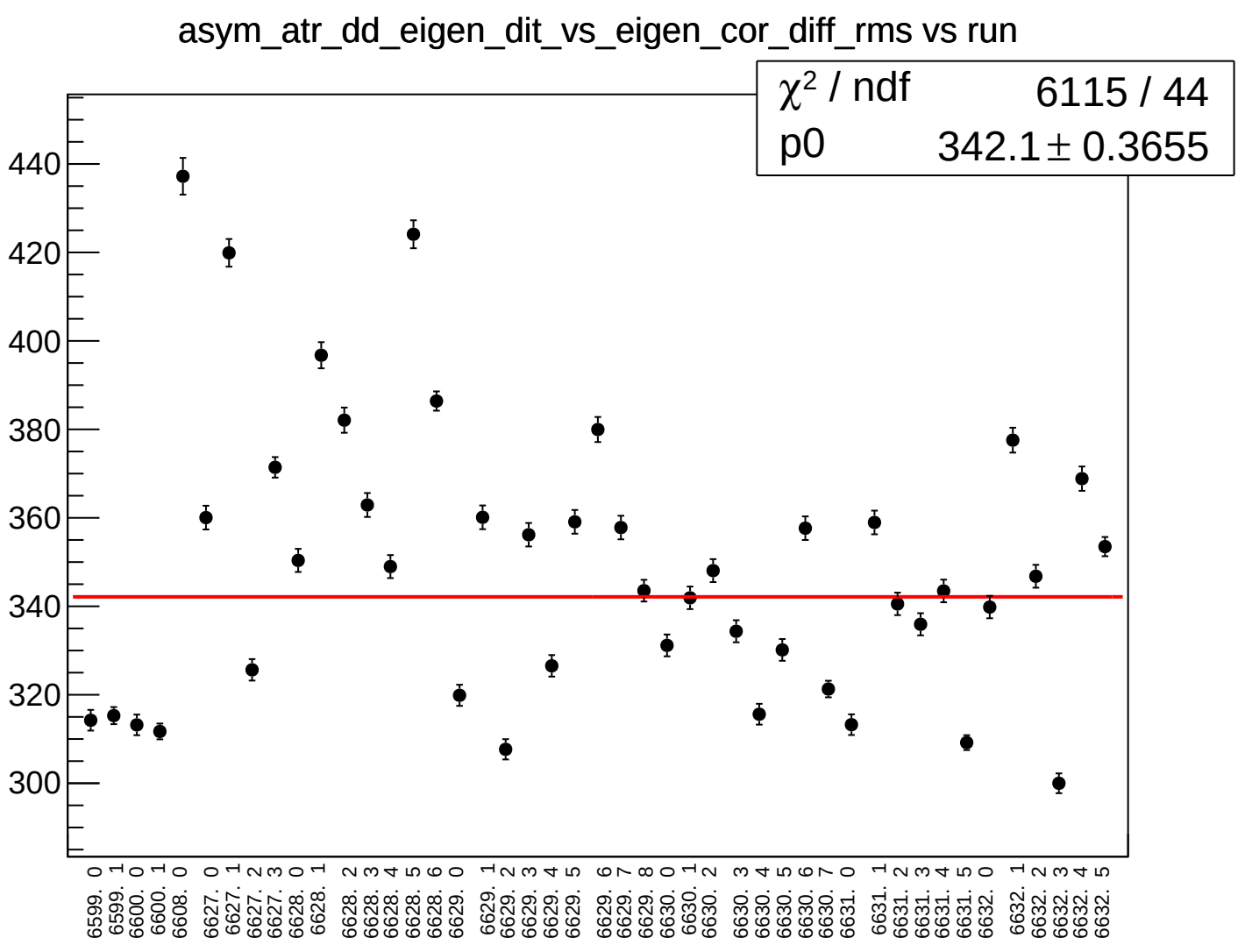

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 63.39 / 44
p0 −0.7851± 0.5169
pull
Entries 45
Mean −114.7
Std Dev 0

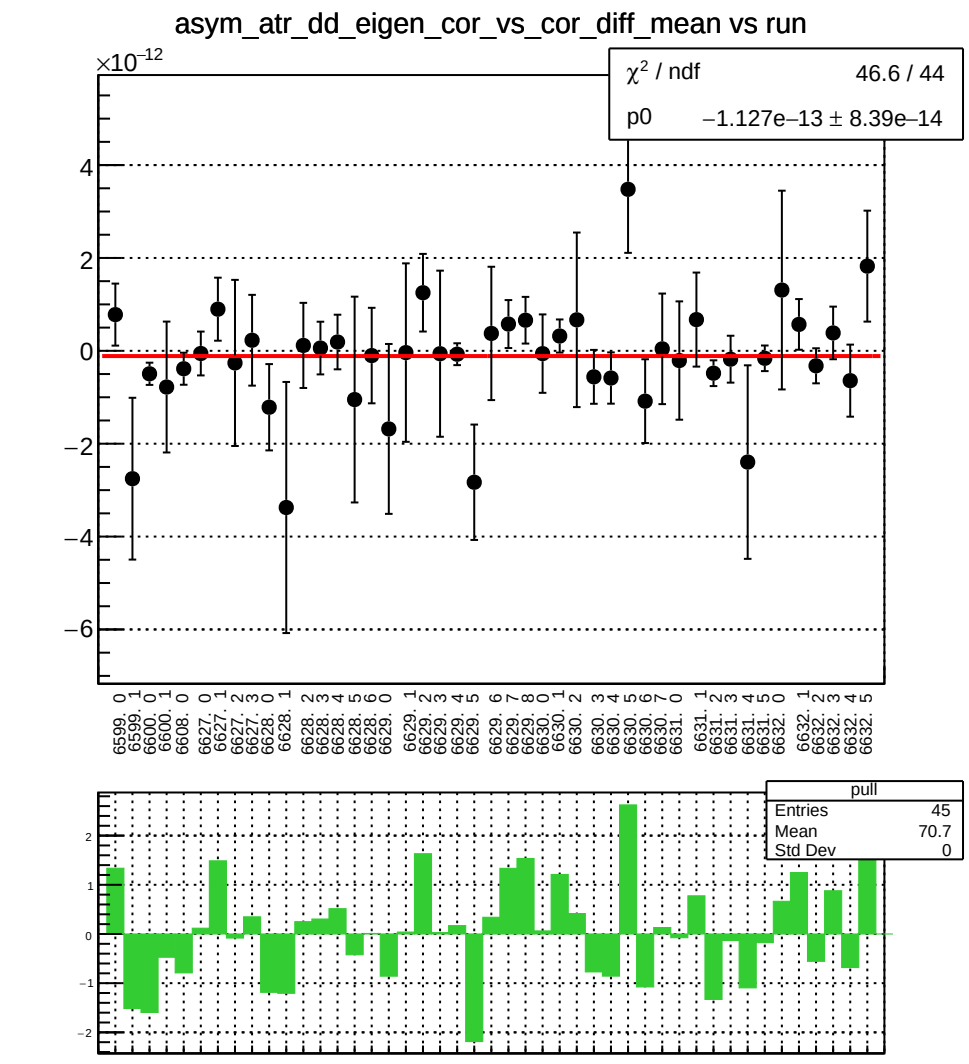

pull1D
Entries 45
Mean 0.007398
Std Dev 1.187

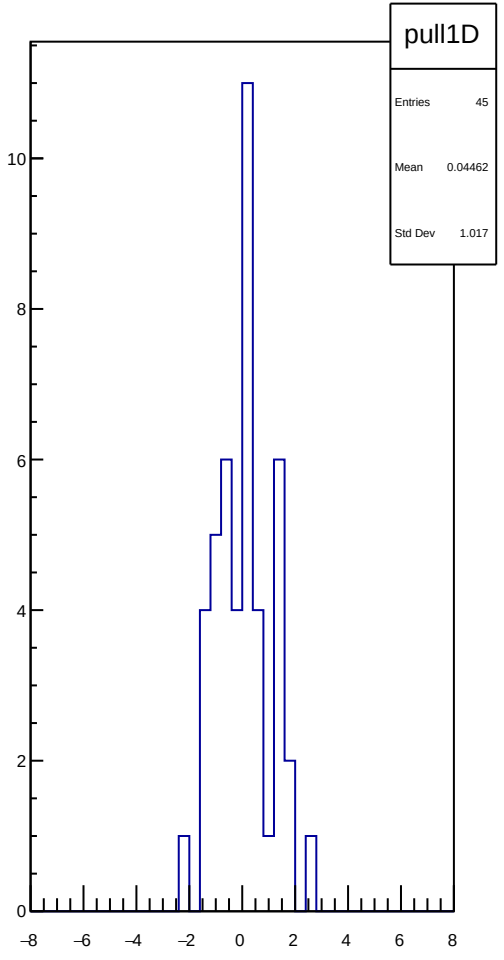

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6115 / 44
p0 342.1 ± 0.3655
440
420
400
380
360
340
320
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

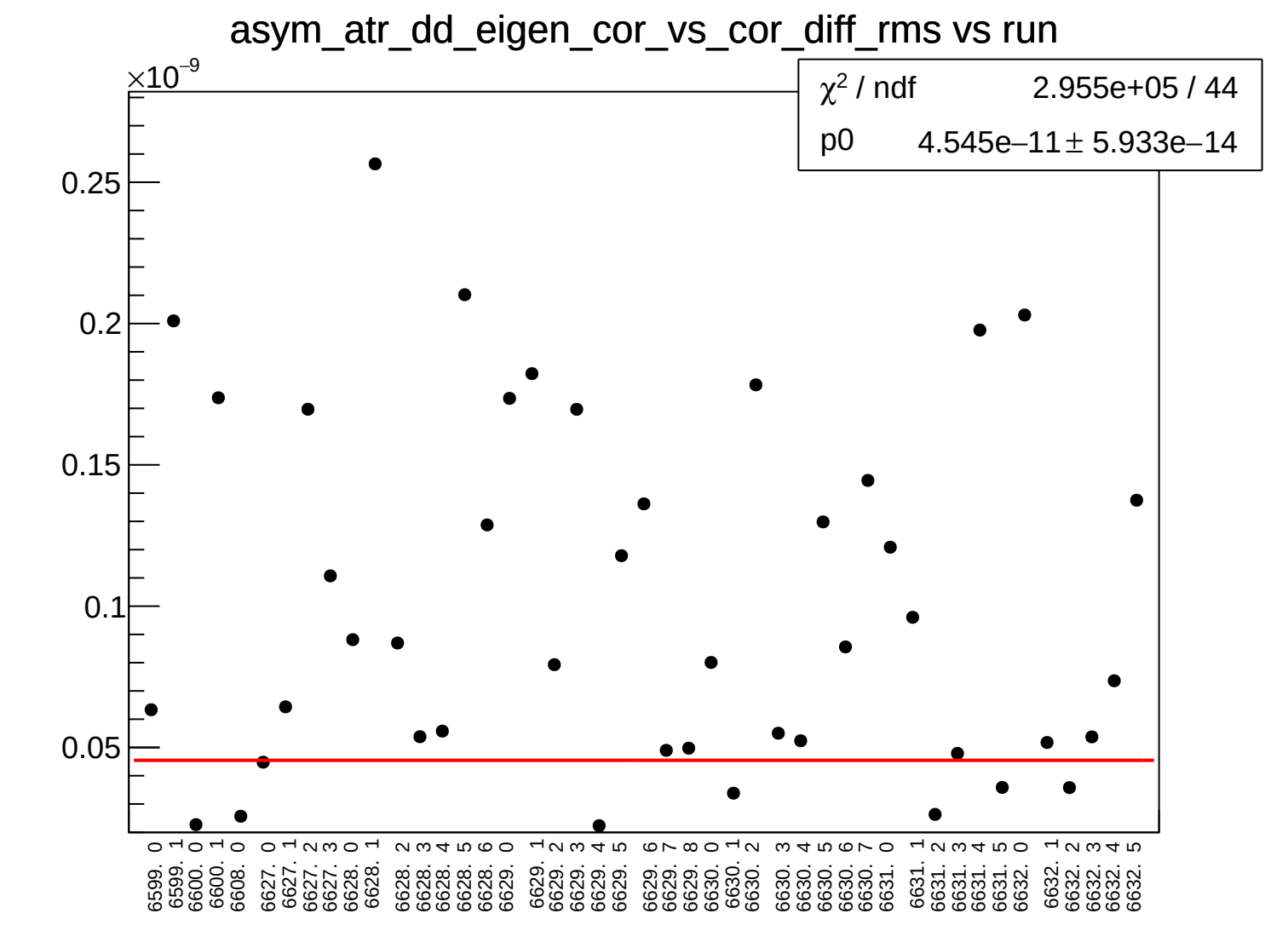

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.39 / 44
p0 −0.7851± 0.5169
pull
Entries 45
Mean −114.7
Std Dev 0

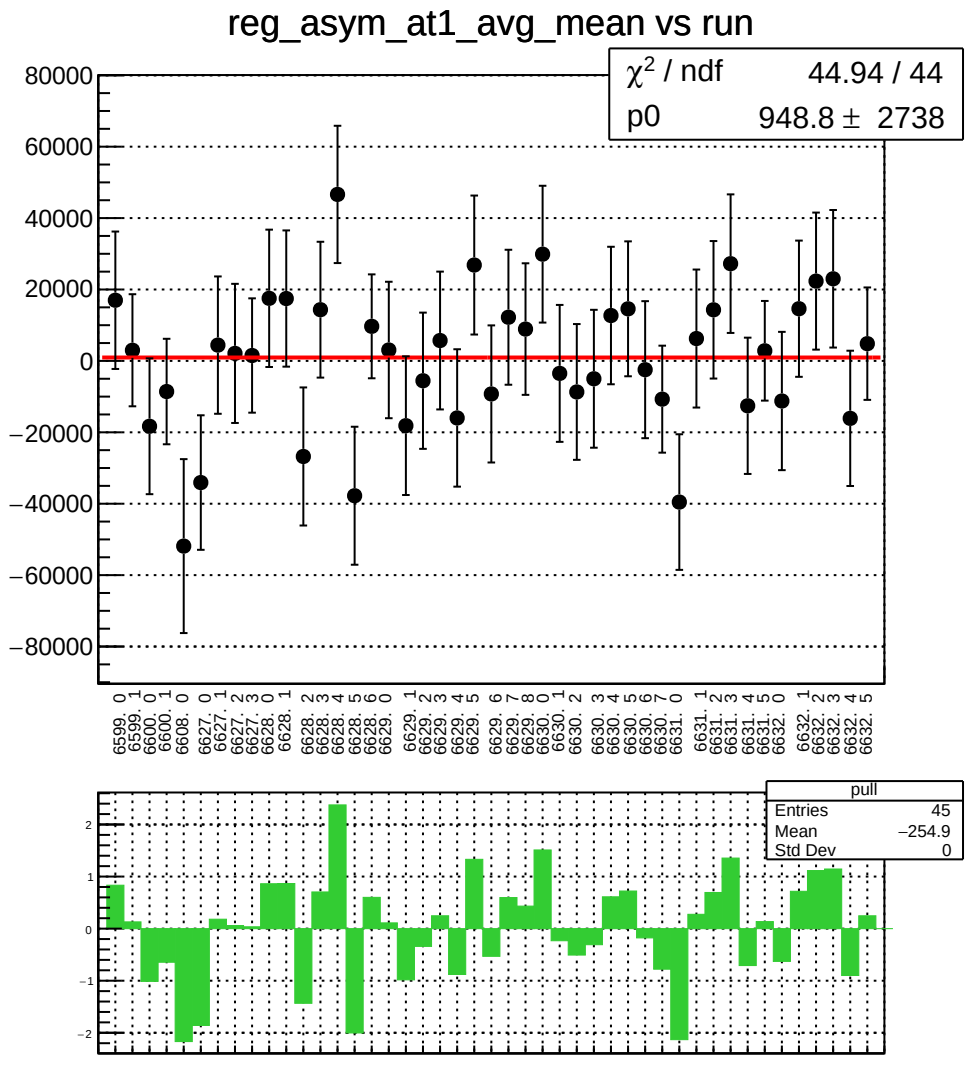

pull1D
Entries 45
Mean 0.007398
Std Dev 1.187

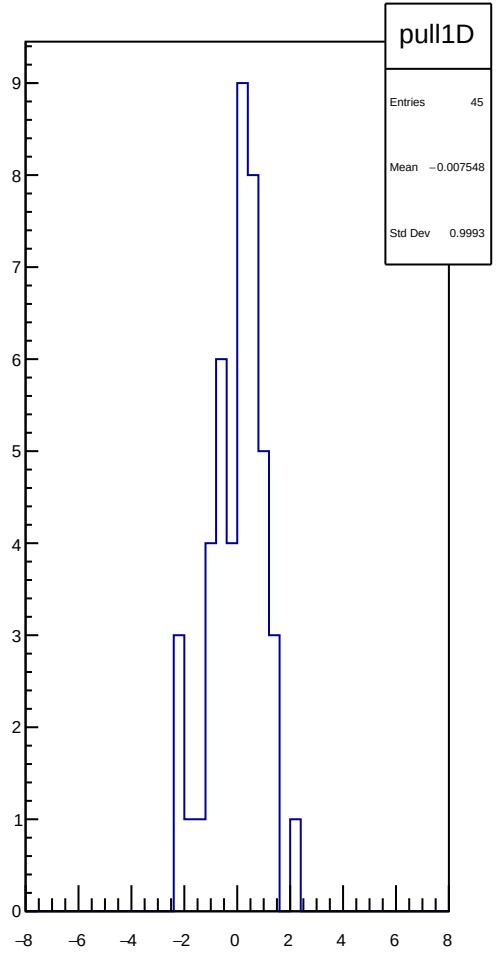

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6115 / 44
p0 342.1 ± 0.3655
440
420
400
380
360
340
320
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

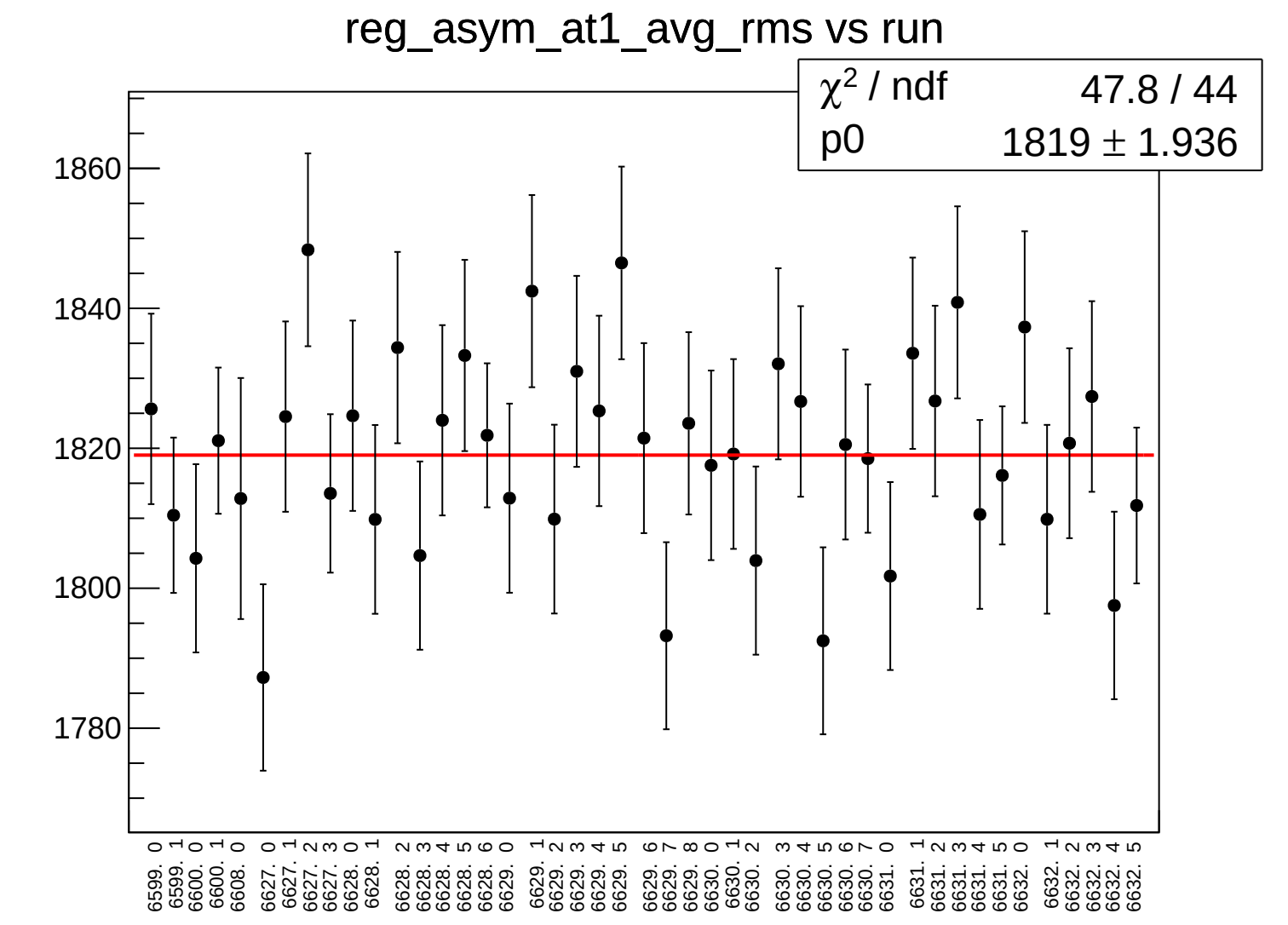

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 46.6 / 44
p0 −1.127e−13 ± 8.39e−14
4
2
0
−2
−4
−6
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 70.7
Std Dev 0
2
1
0
−1
−2

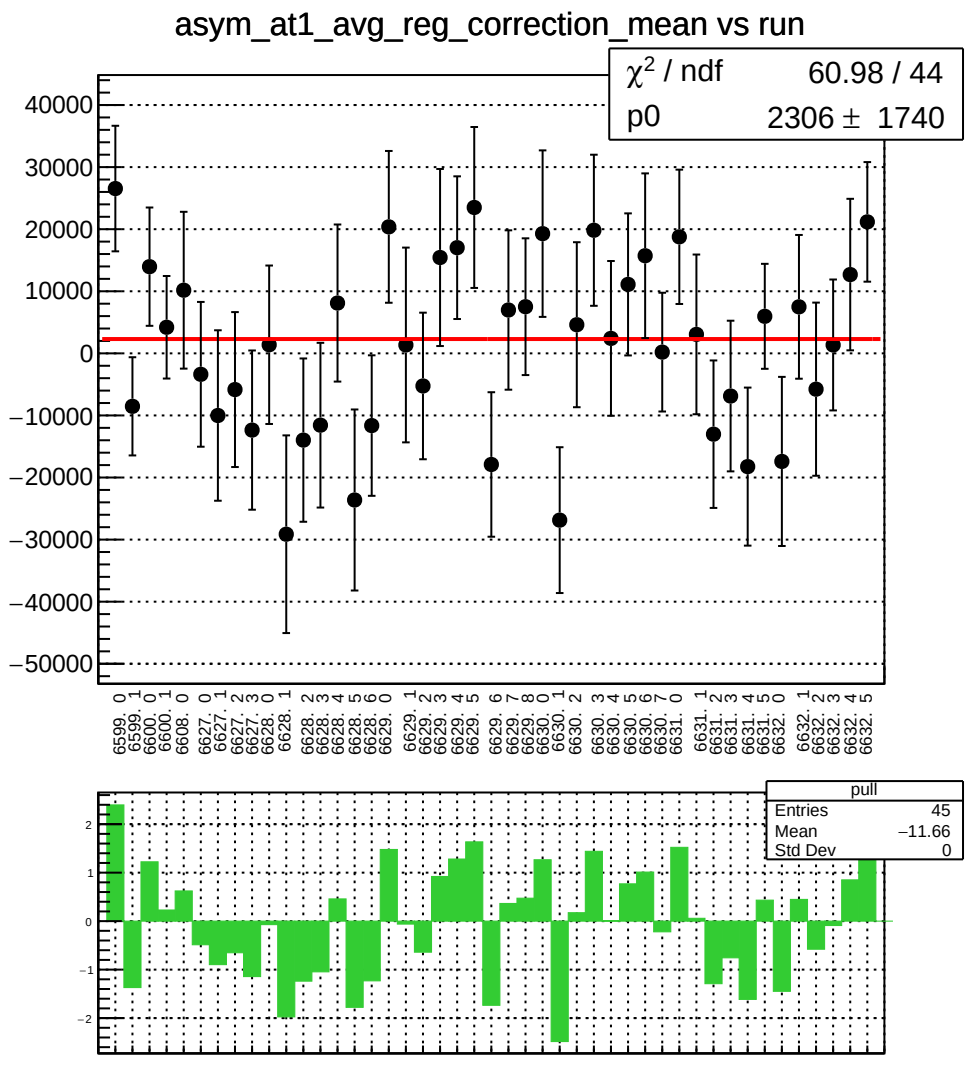

pull1D
Entries 45
Mean 0.04462
Std Dev 1.017
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

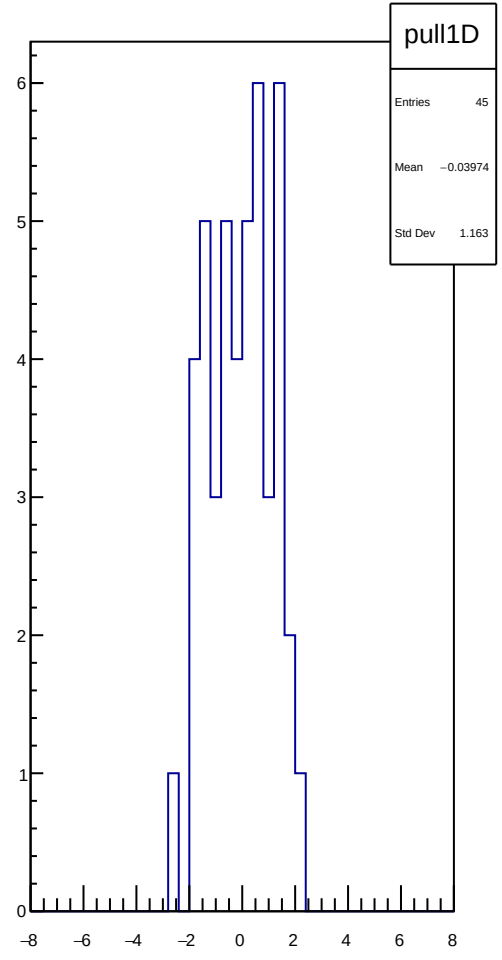

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.955e+05 / 44
p0 4.545e−11 ± 5.933e−14
0.25
0.2
0.15
0.1
0.05
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

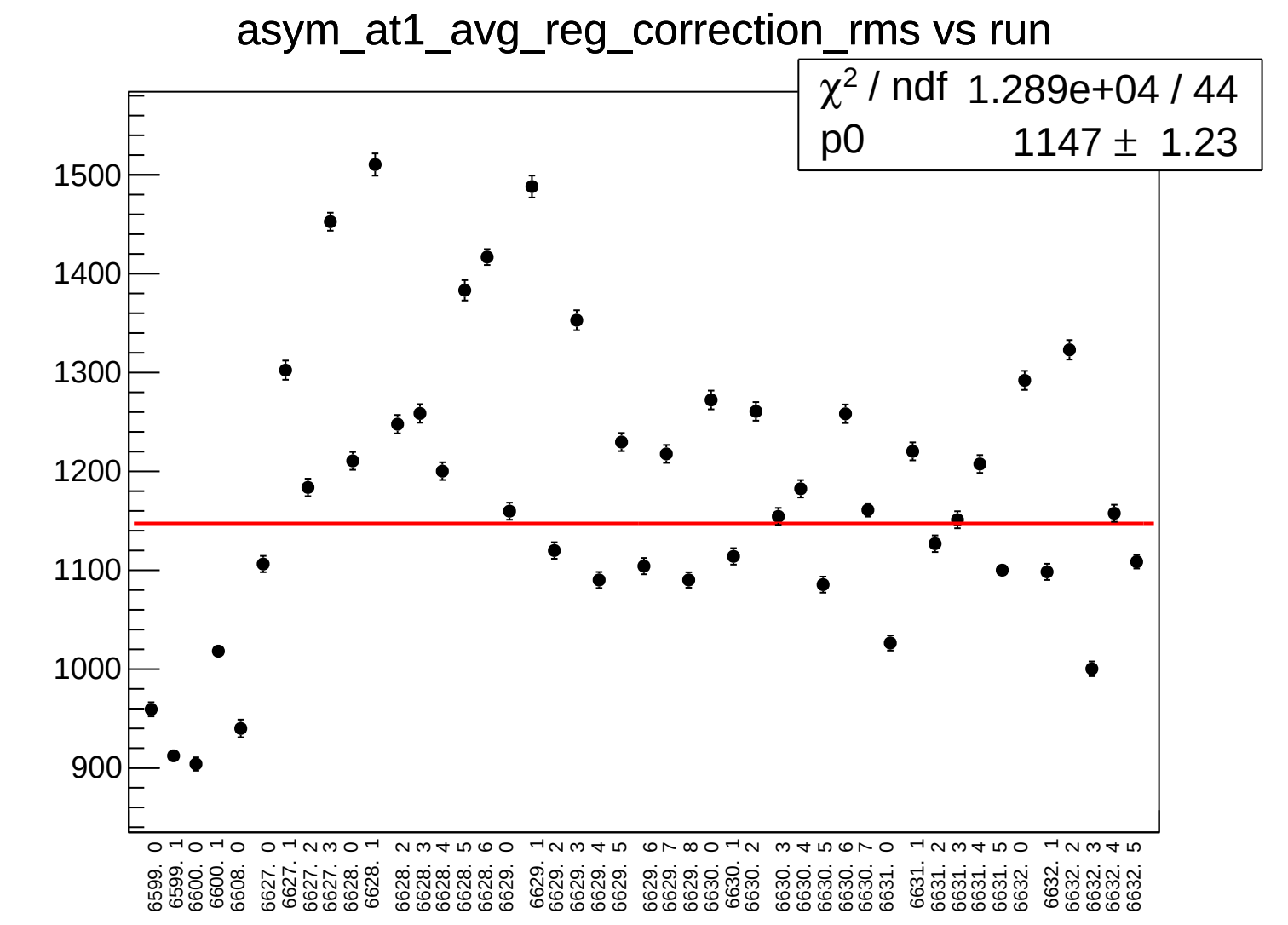

reg_asym_at1_avg_mean vs run
χ² / ndf 44.94 / 44
p0 948.8 ± 2738
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −254.9
Std Dev 0
2
1
0
−1
−2

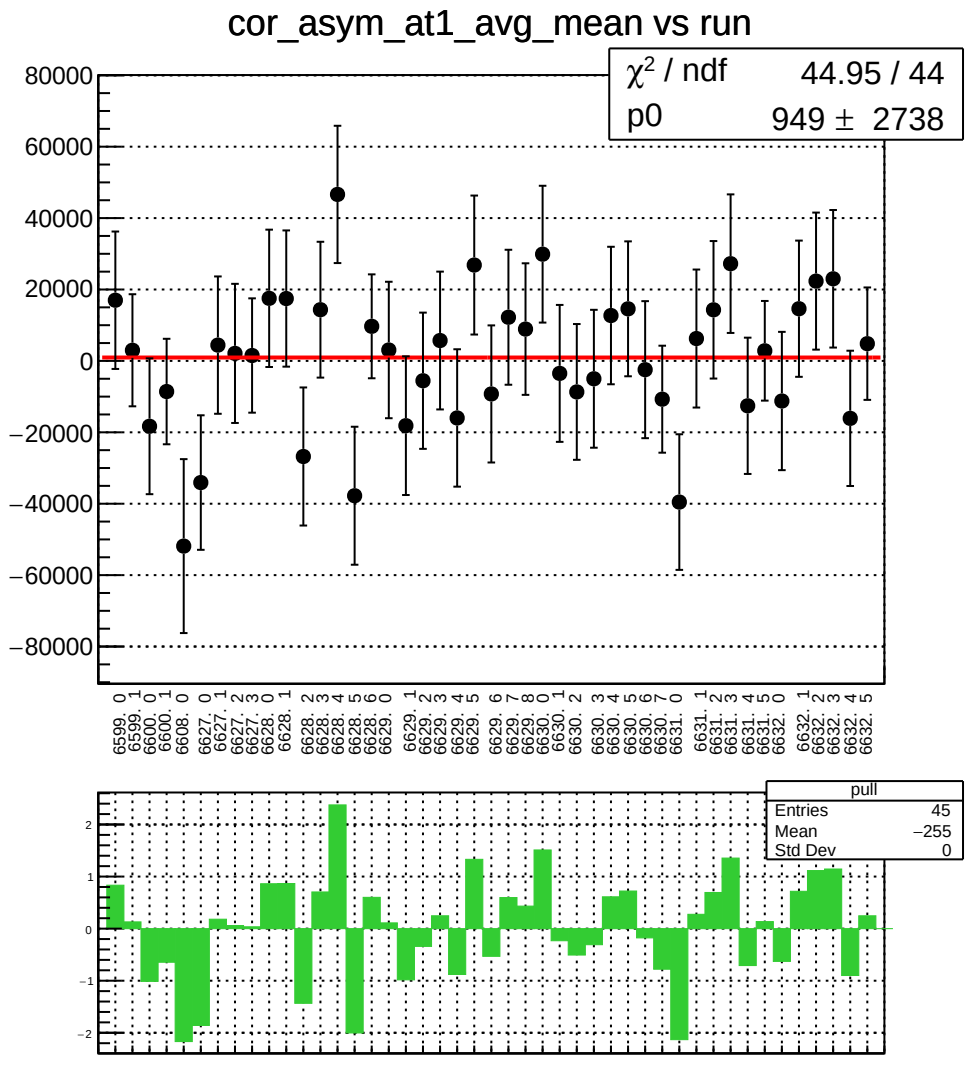

pull1D
Entries 45
Mean −0.007548
Std Dev 0.9993
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at1_avg_rms vs run
χ² / ndf 47.8 / 44
p0 1819 ± 1.936
1860
1840
1820
1800
1780
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_at1_avg_reg_correction_mean vs run
χ² / ndf 60.98 / 44
p0 2306 ± 1740
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −11.66
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.03974
Std Dev 1.163
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 1.289e+04 / 44
p0 1147 ± 1.23
1500
1400
1300
1200
1100
1000
900
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_at1_avg_mean vs run
χ² / ndf 44.95 / 44
p0 949 ± 2738
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
6629. 3
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6629. 6
6629. 7
6629. 8
6630. 0
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6630. 2
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6630. 5
6630. 6
6630. 7
6631. 0
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
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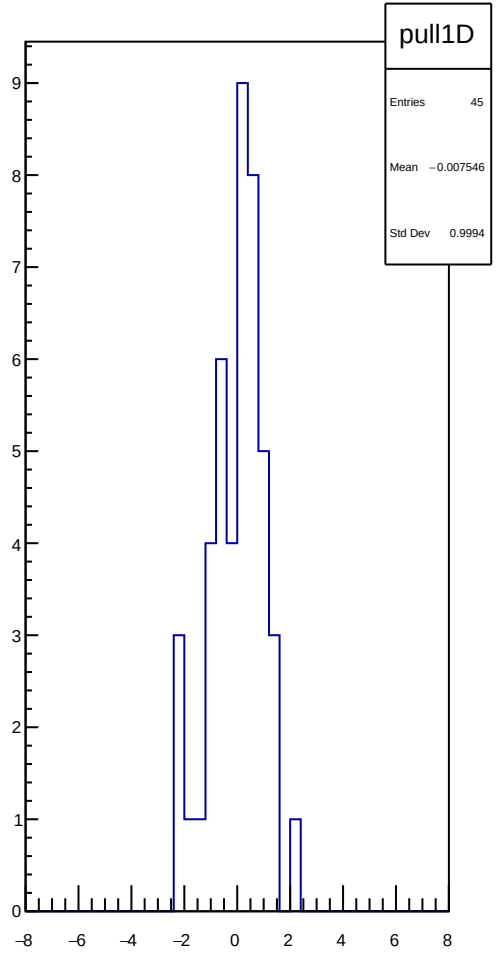
6632. 4
6632. 5
pull
Entries 45
Mean −255
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.007546
Std Dev 0.9994
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8
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5
4
3
2
1
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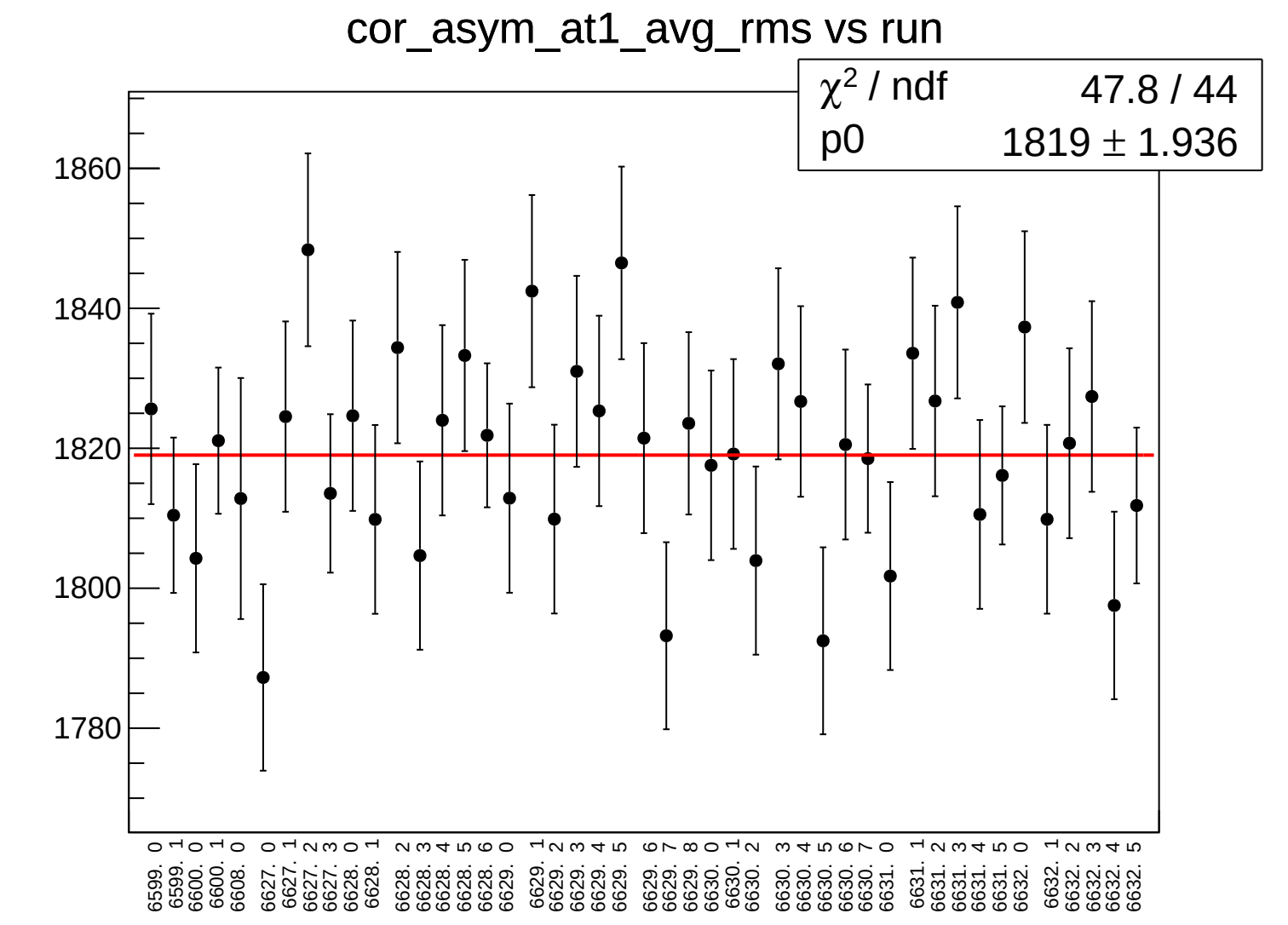
−6
−4
−2
0
2
4
6
8


cor_asym_at1_avg_rms vs run
χ² / ndf 47.8 / 44
p0 1819 ± 1.936
1860
1840
1820
1800
1780
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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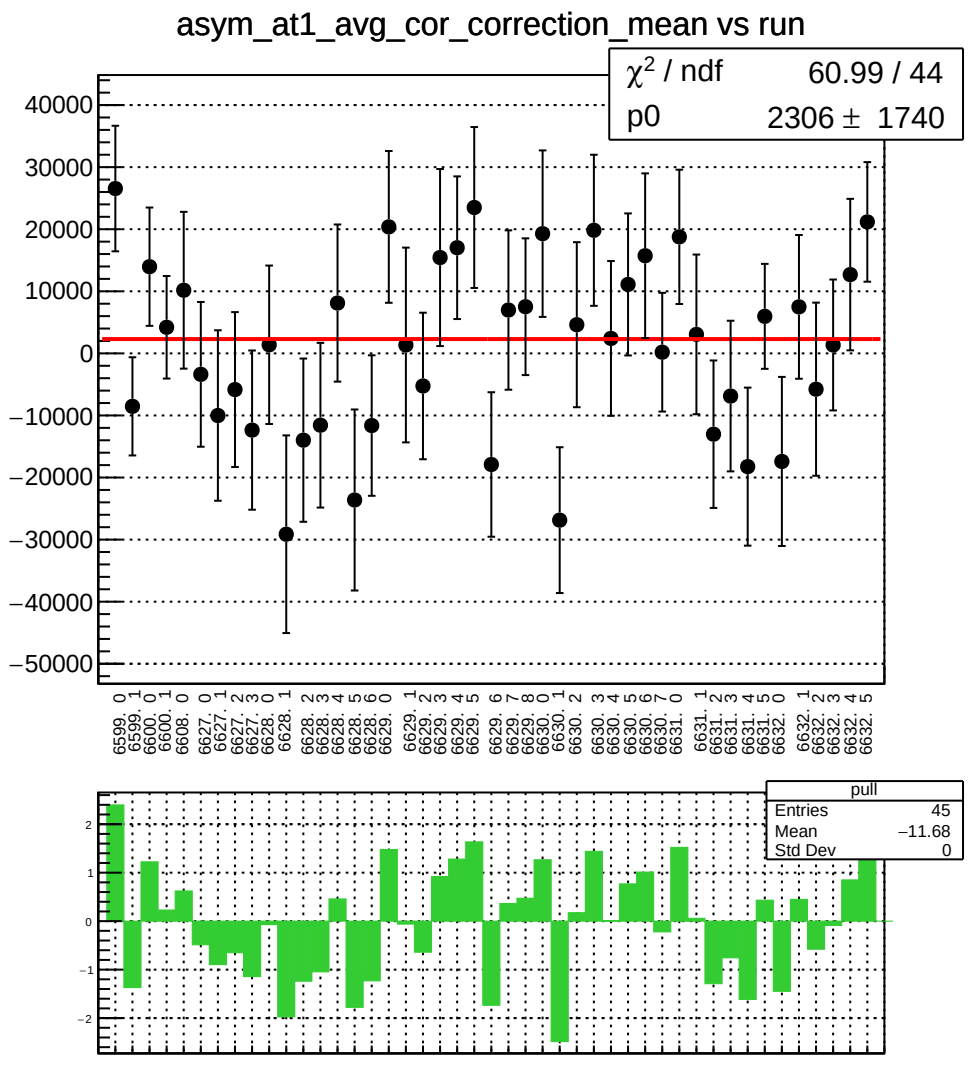
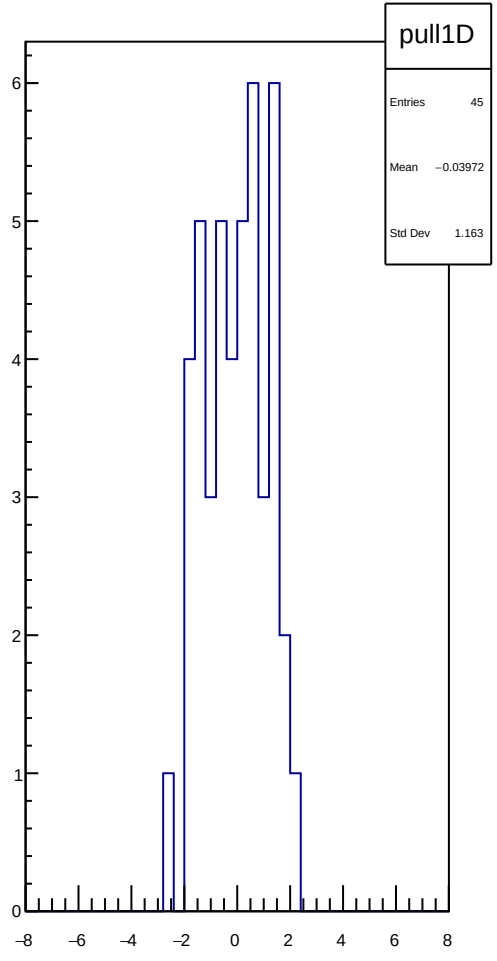
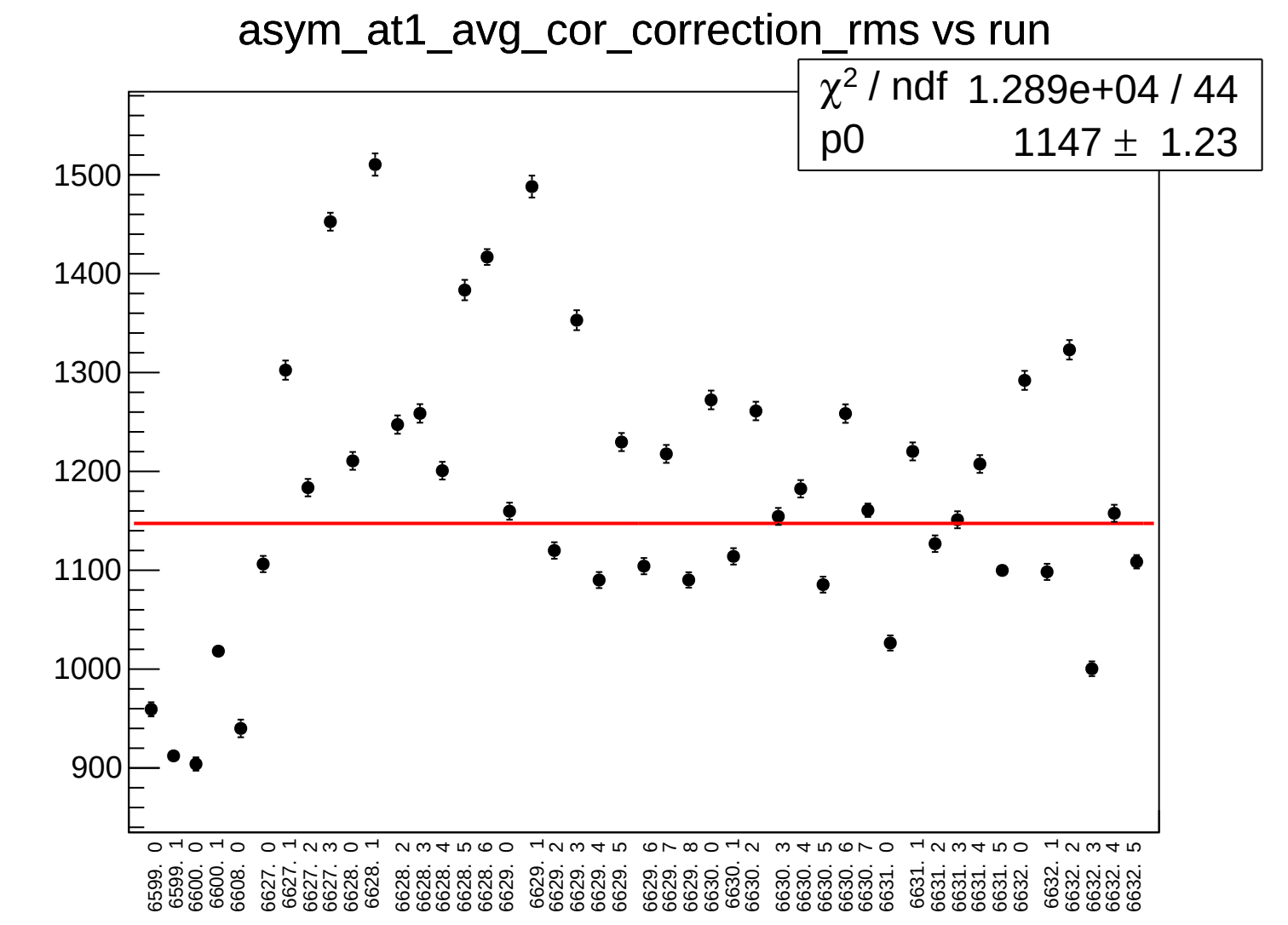

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 60.99 / 44
p0 2306 ± 1740
pull
Entries 45
Mean −11.68
Std Dev 0


pull1D
Entries 45
Mean −0.03972
Std Dev 1.163


asym_at1_avg_cor_correction_rms vs run
χ² / ndf 1.289e+04 / 44
p0 1147 ± 1.23
1500
1400
1300
1200
1100
1000
900
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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6628. 0
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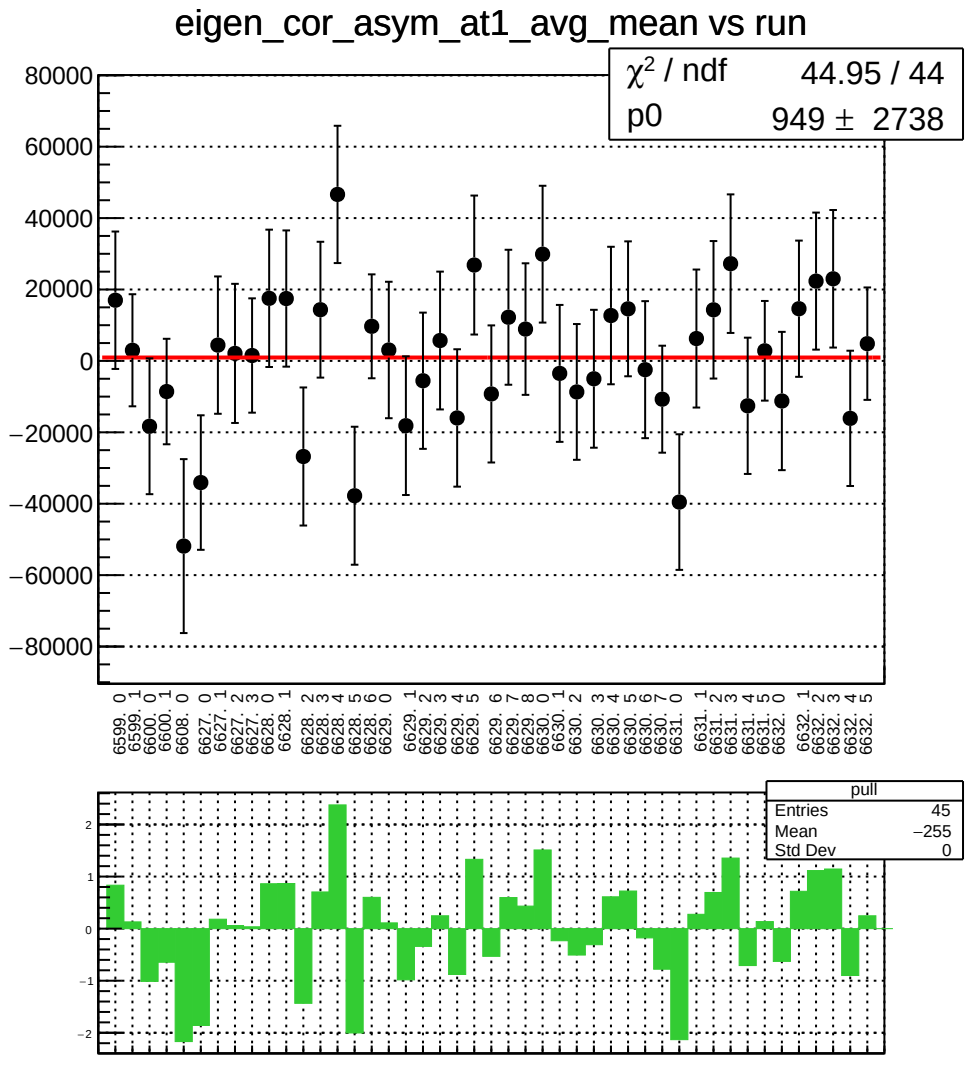
eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 44.95 / 44
p0 949 ± 2738
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −255
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.007546
Std Dev 0.9994
9
8
7
6
5
4
3
2
1
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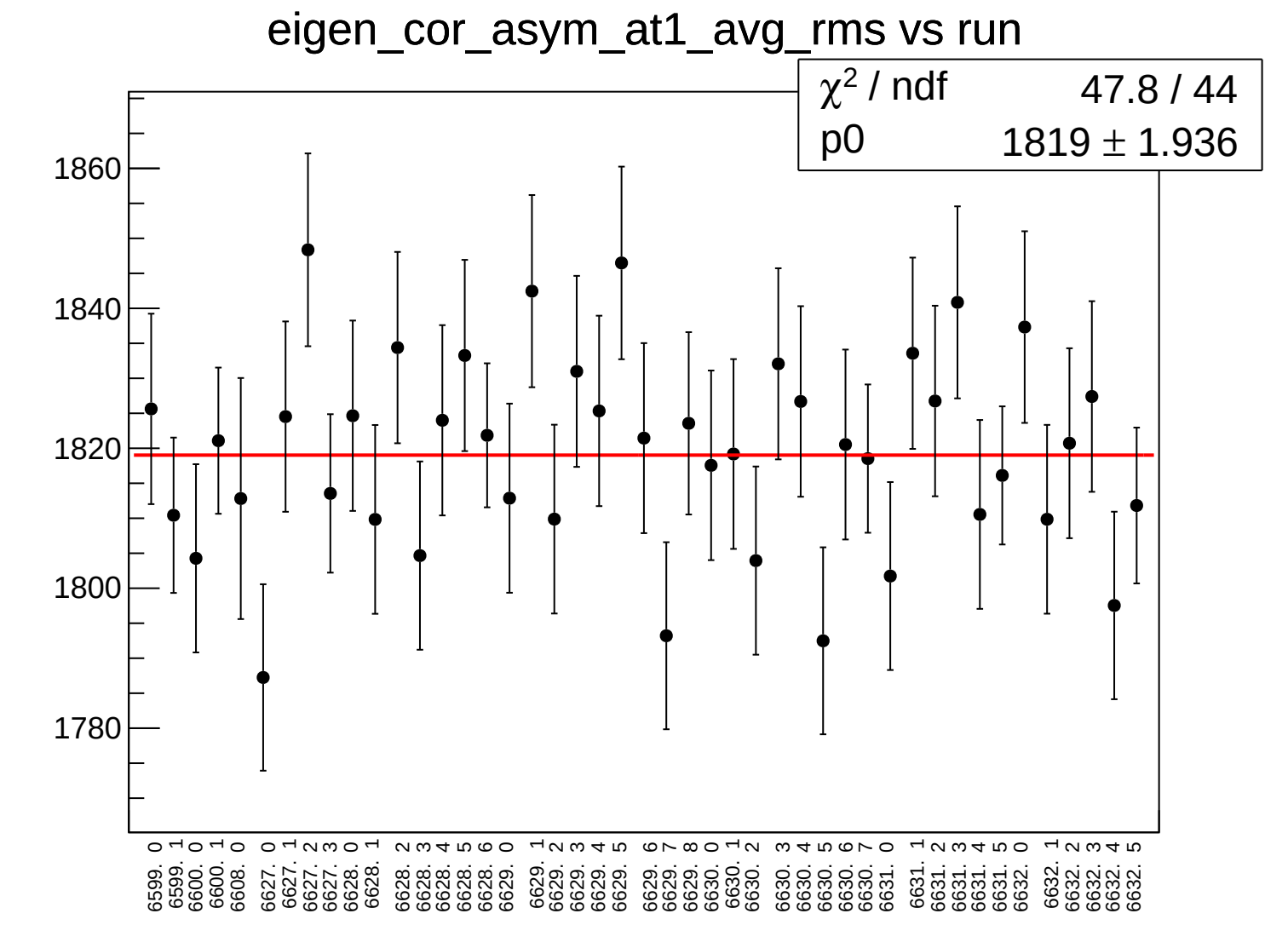
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 47.8 / 44
p0 1819 ± 1.936
1860
1840
1820
1800
1780
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6628. 6
6629. 0
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6629. 8
6630. 0
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6630. 2
6630. 3
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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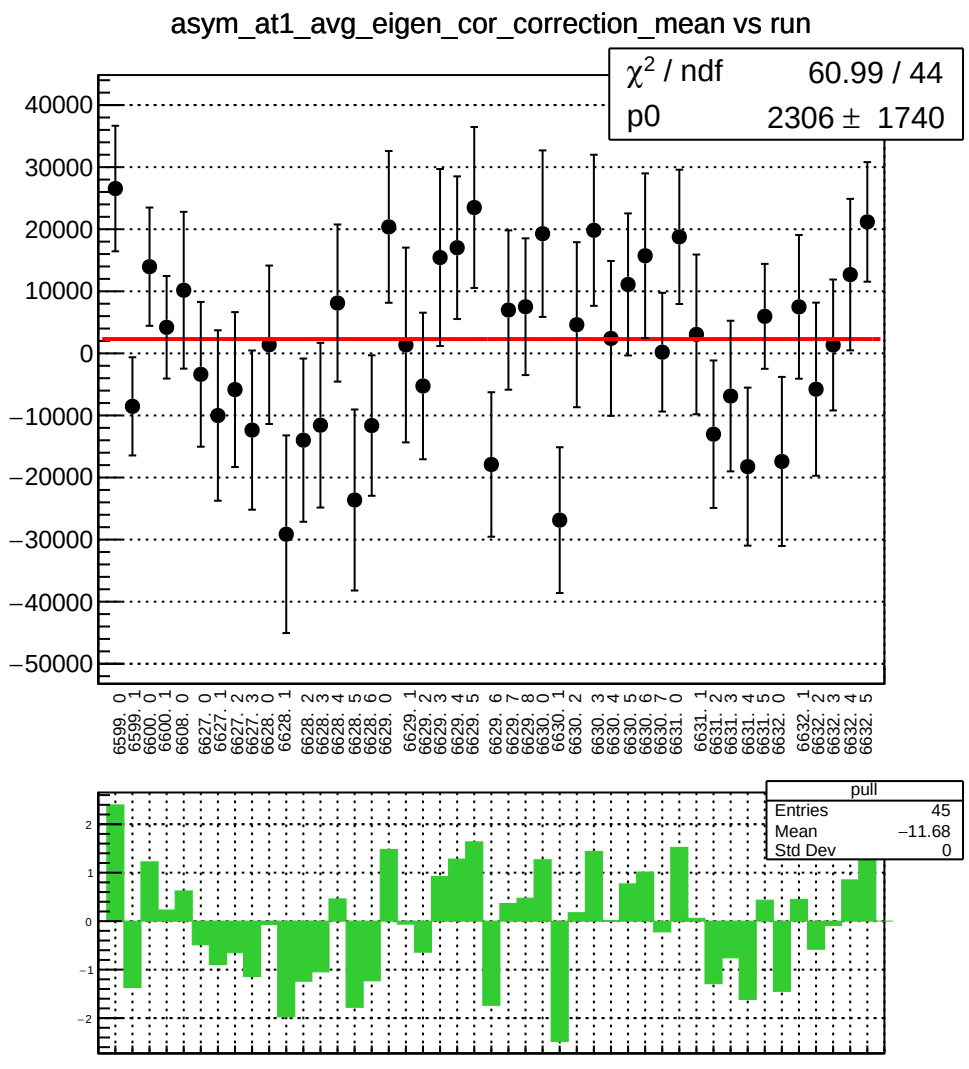
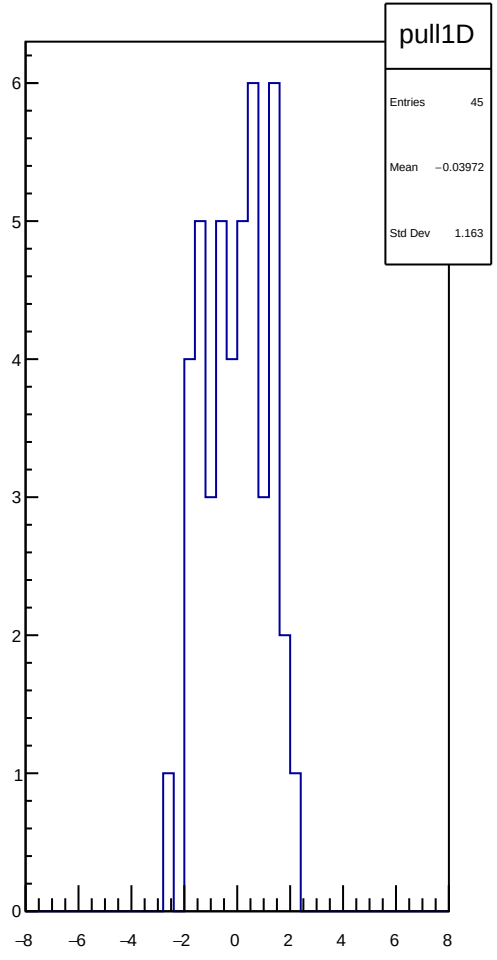
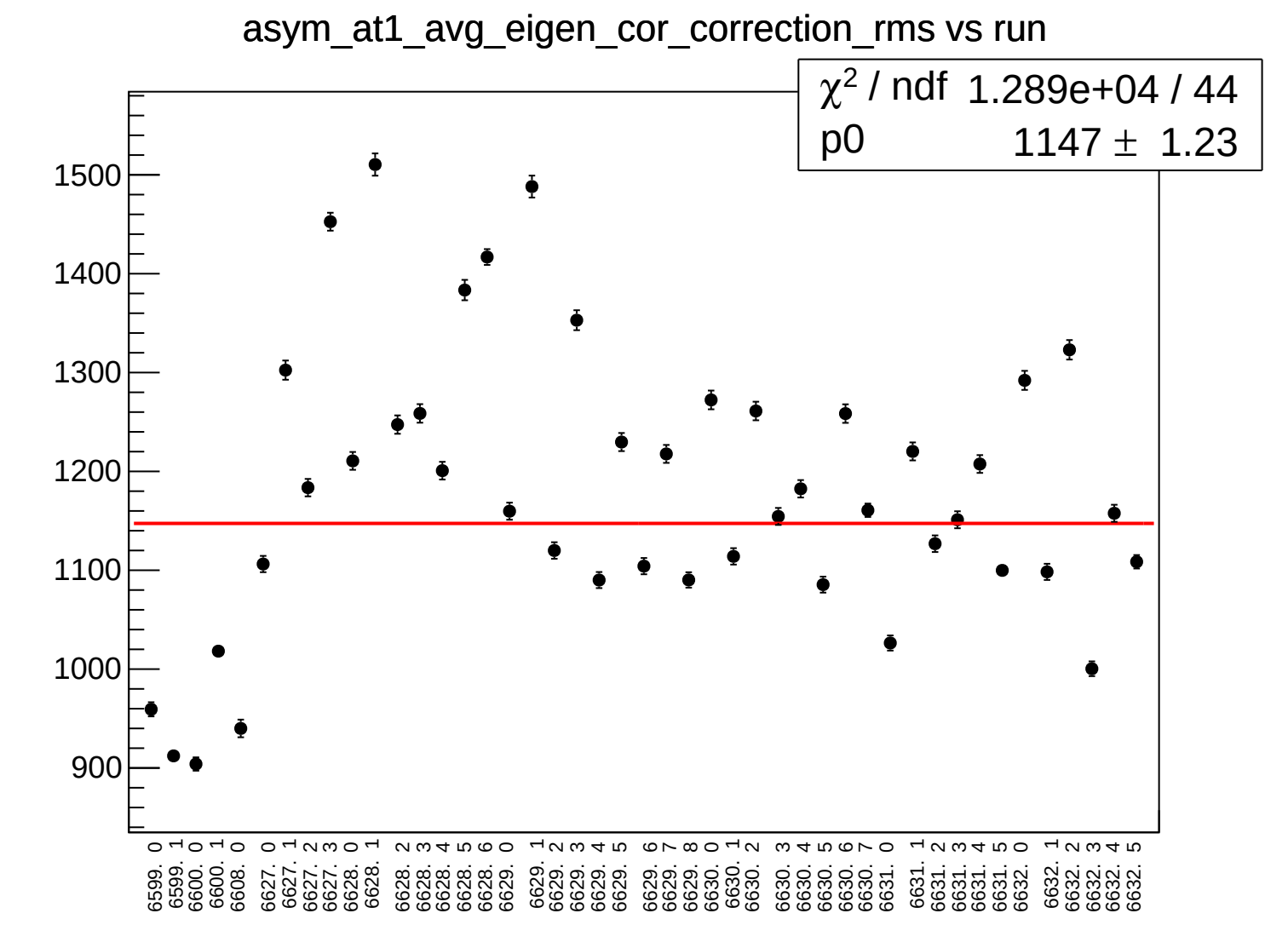
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 60.99 / 44
p0 2306 ± 1740
pull
Entries 45
Mean −11.68
Std Dev 0


pull1D
Entries 45
Mean −0.03972
Std Dev 1.163


asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.289e+04 / 44
p0 1147 ± 1.23
1500
1400
1300
1200
1100
1000
900
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 4
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6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 4
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6631. 0
6631. 1
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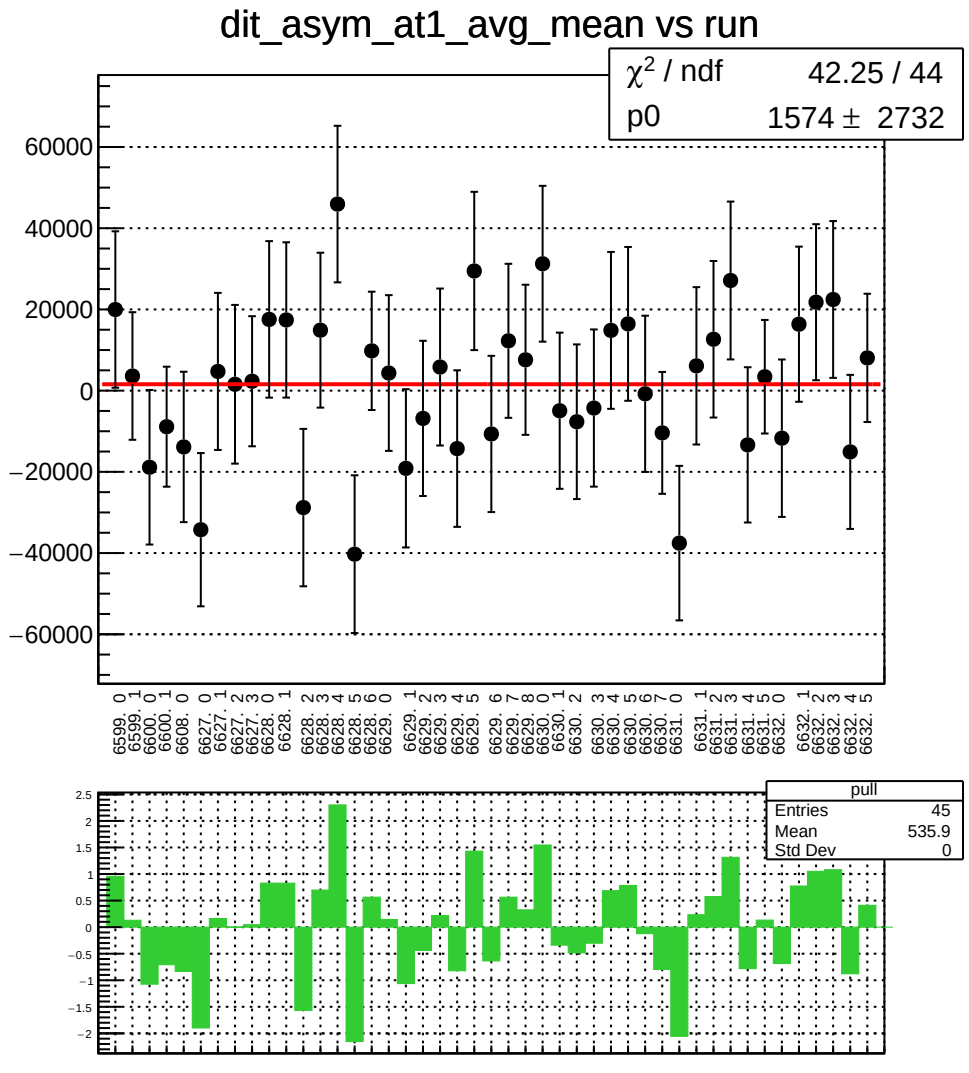
6632. 5


dit_asym_at1_avg_mean vs run
χ² / ndf 42.25 / 44
p0 1574 ± 2732
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6630. 1
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6630. 7
6631. 0
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 535.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.003304
Std Dev 0.969
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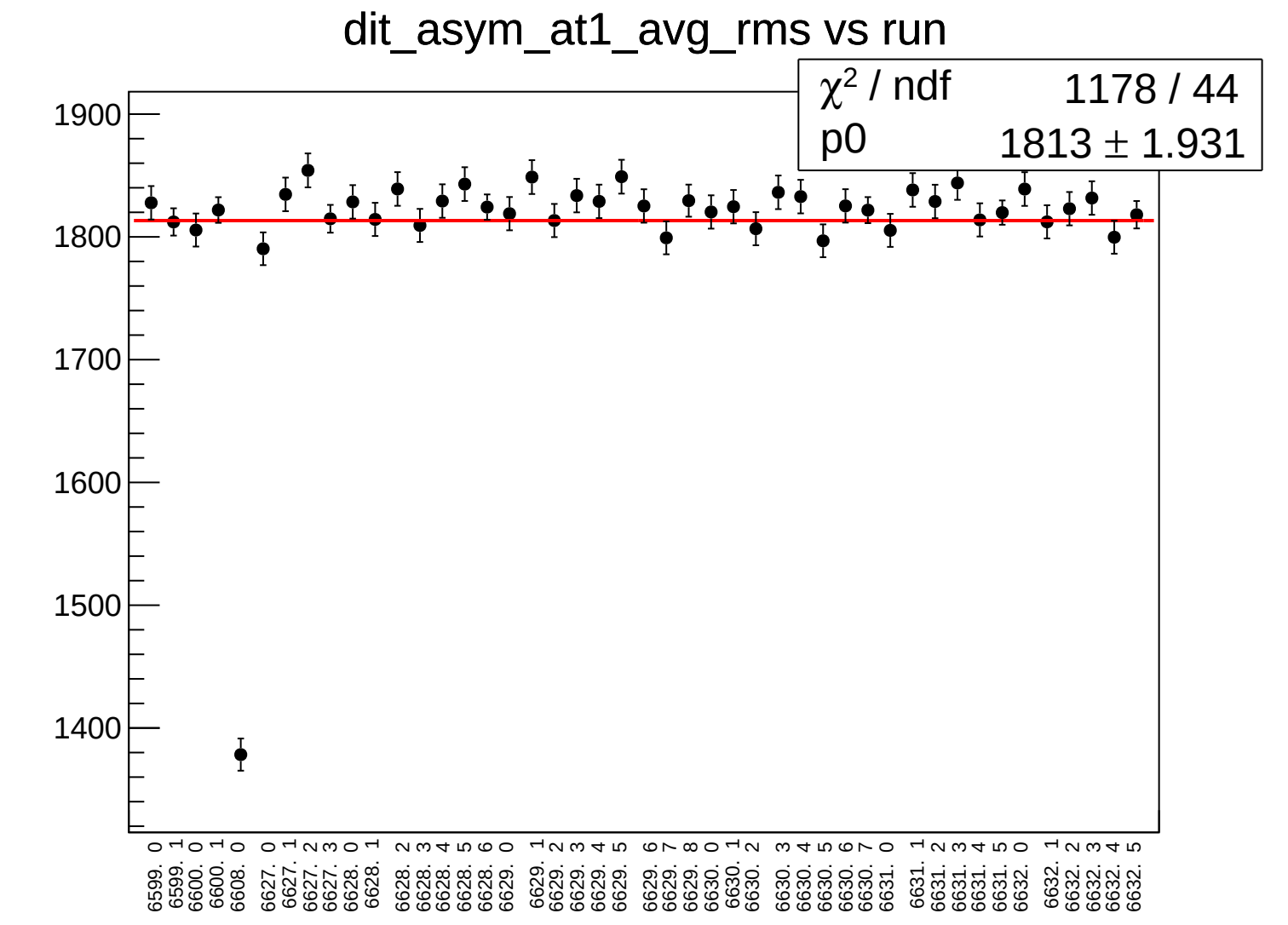
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_at1_avg_rms vs run
χ² / ndf 1178 / 44
p0 1813 ± 1.931
1900
1800
1700
1600
1500
1400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
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6631. 0
6631. 1
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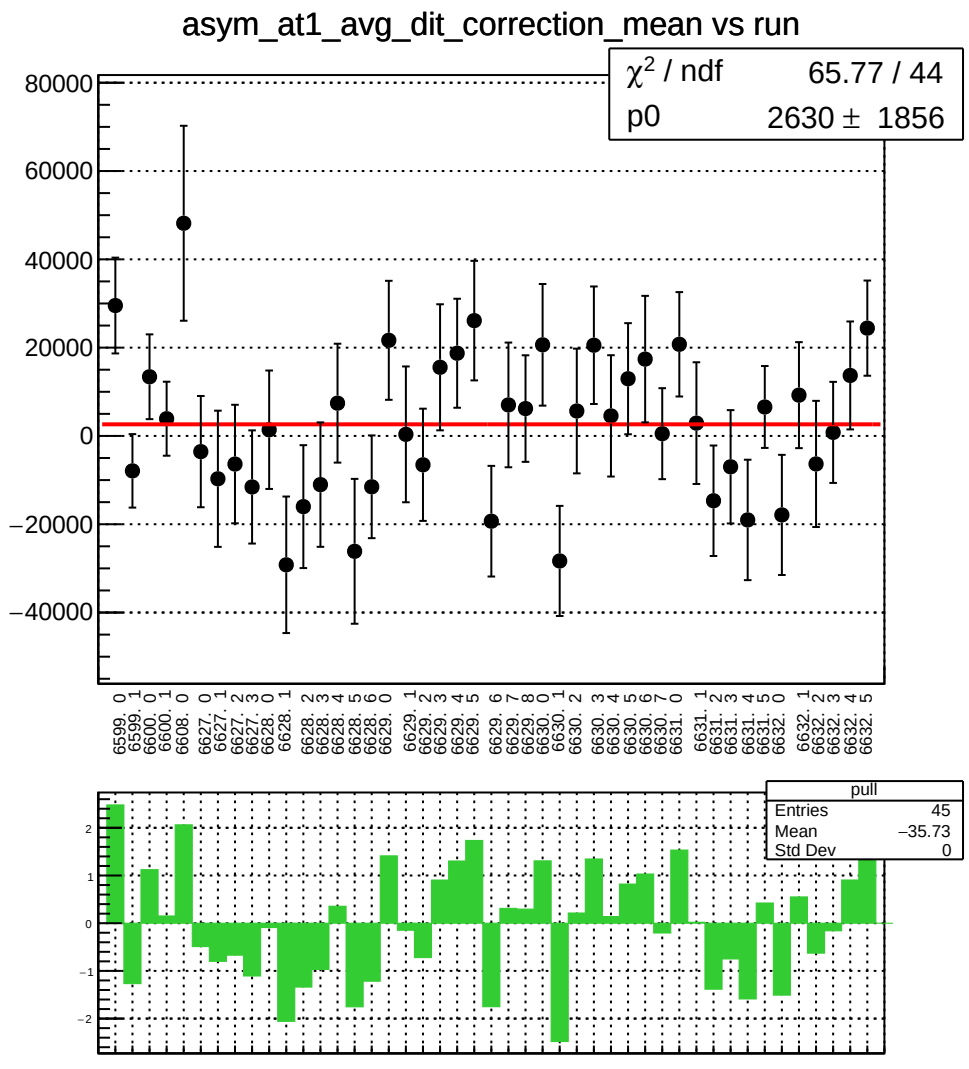
6632. 5


asym_at1_avg_dit_correction_mean vs run
χ² / ndf 65.77 / 44
p0 2630 ± 1856
80000
60000
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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6628. 0
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6629. 0
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6629. 7
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6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −35.73
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01413
Std Dev 1.209
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5
4
3
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1
0
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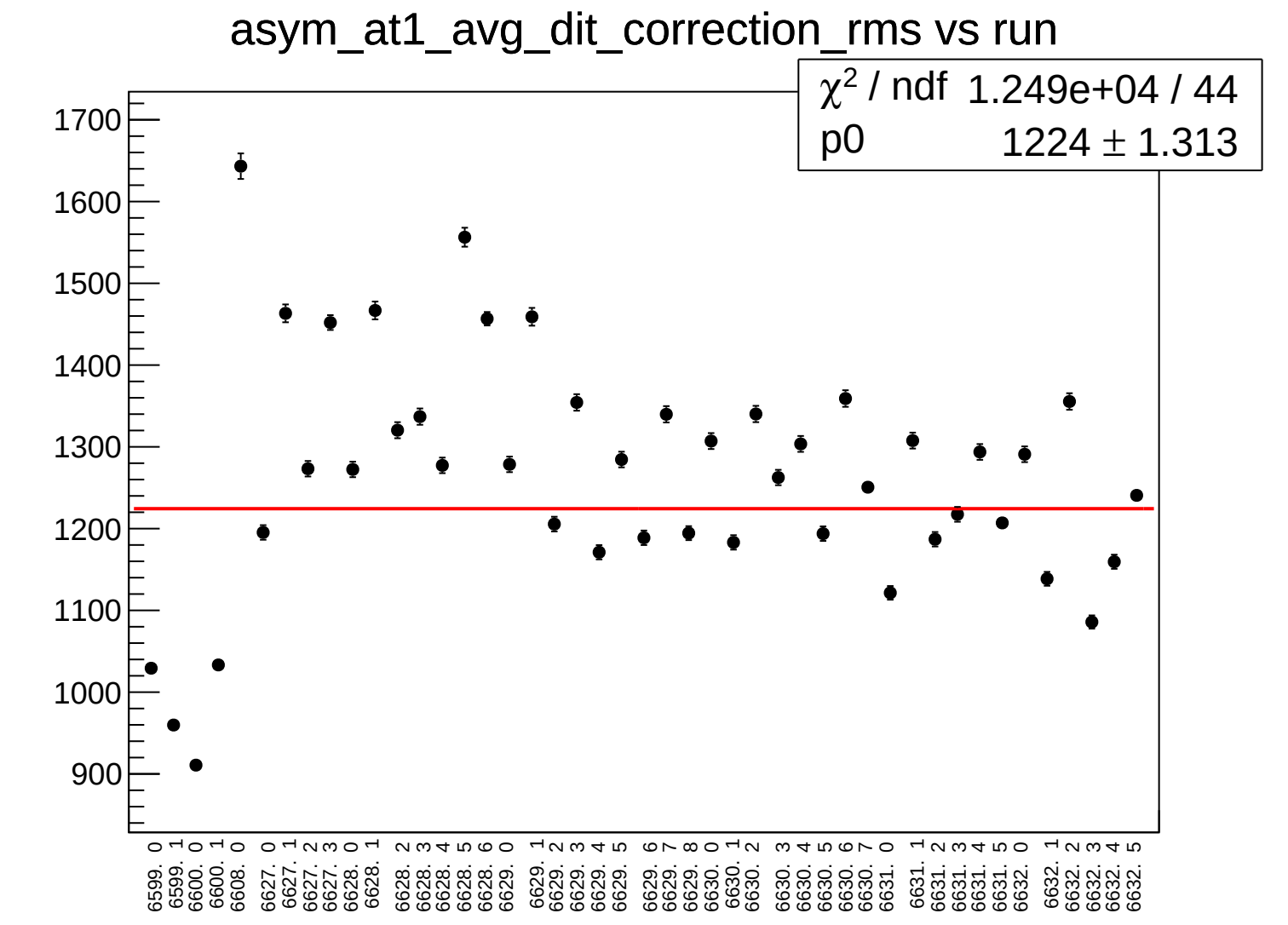
−6
−4
−2
0
2
4
6
8


asym_at1_avg_dit_correction_rms vs run
χ² / ndf 1.249e+04 / 44
p0 1224 ± 1.313
1700
1600
1500
1400
1300
1200
1100
1000
900
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 2
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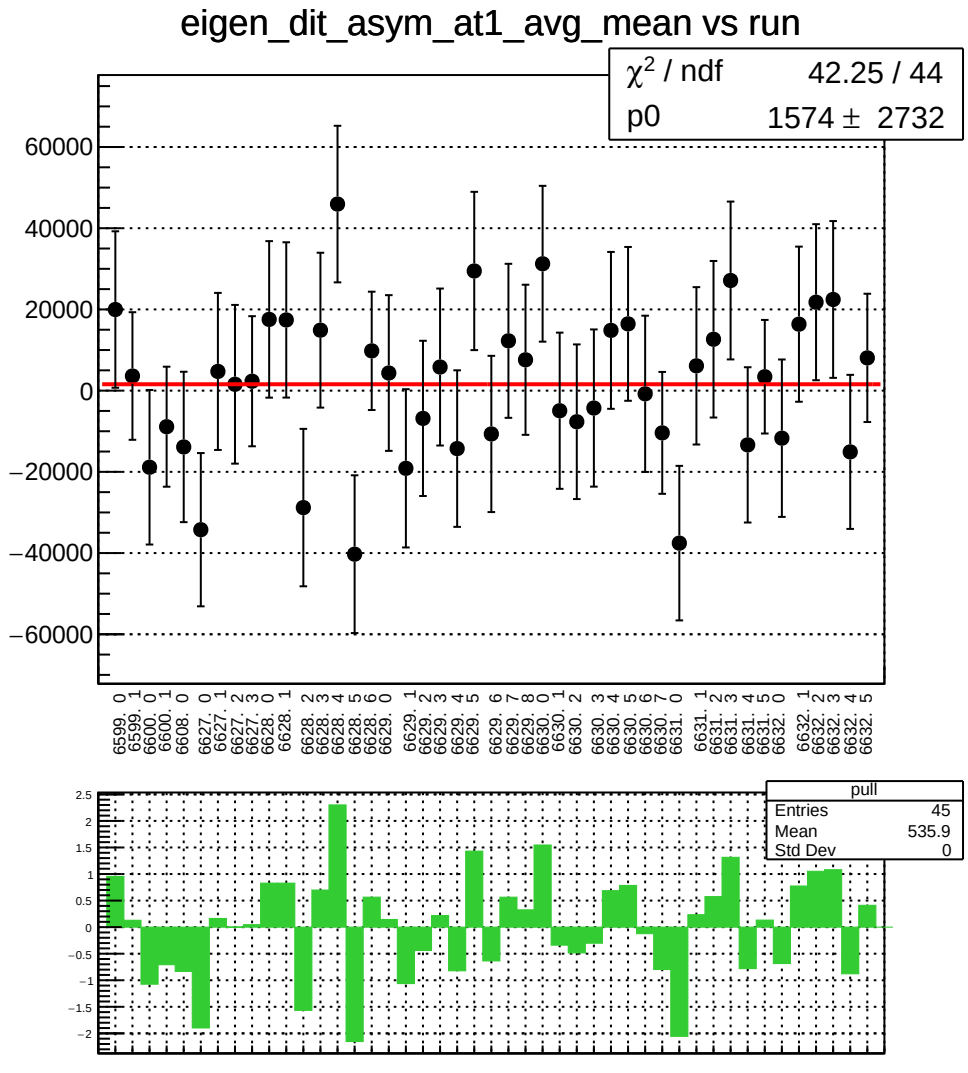
6632. 5


eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 42.25 / 44
p0 1574 ± 2732
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 2
6627. 3
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6629. 8
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6630. 6
6630. 7
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 535.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.003304
Std Dev 0.969
8
7
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5
4
3
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1
0
−8
−6
−4
−2
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2
4
6
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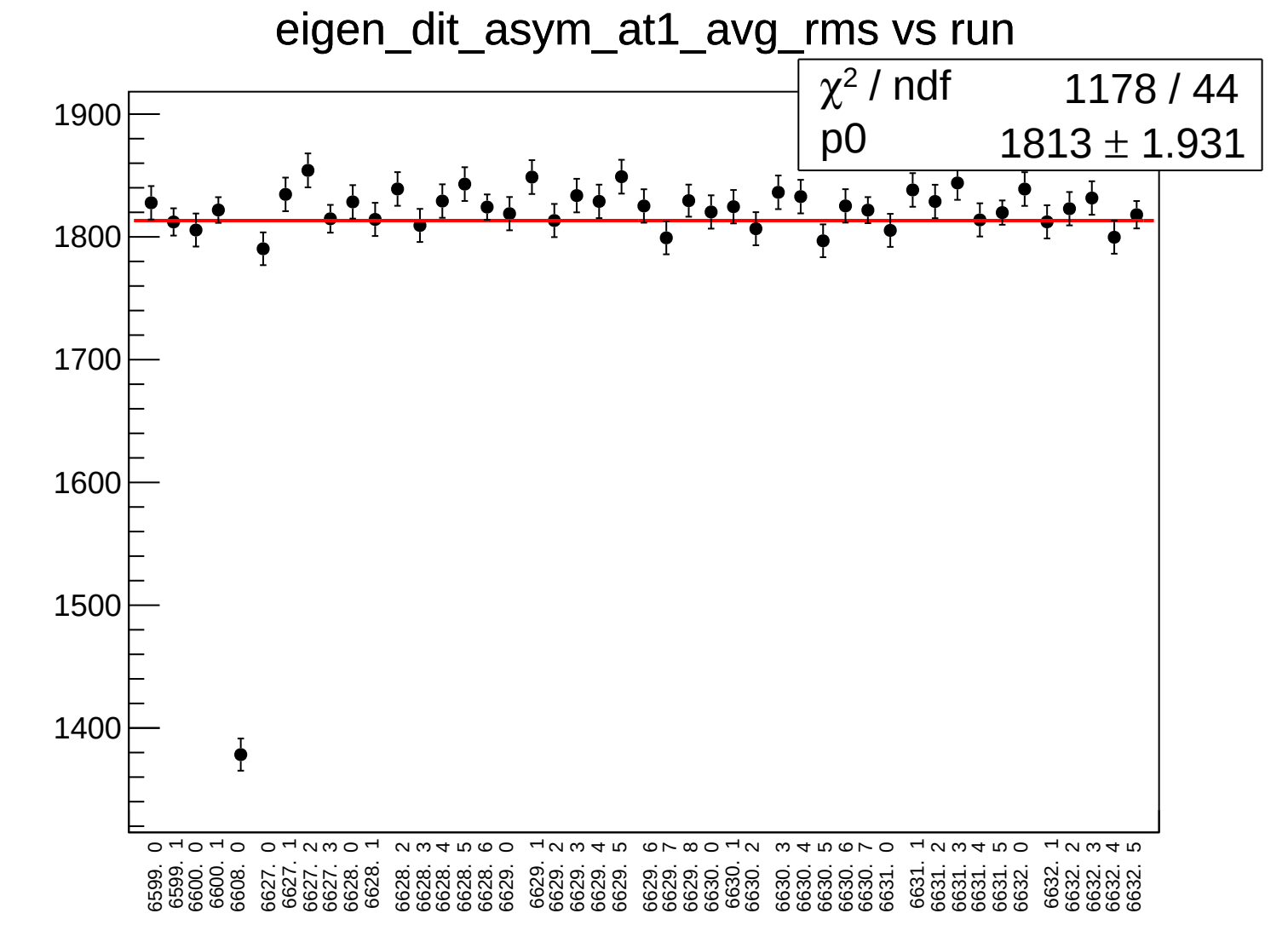
eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 1178 / 44
p0 1813 ± 1.931
1900
1800
1700
1600
1500
1400
6599. 0
6599. 1
6600. 0
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6608. 0
6627. 0
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6630. 6
6630. 7
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6631. 1
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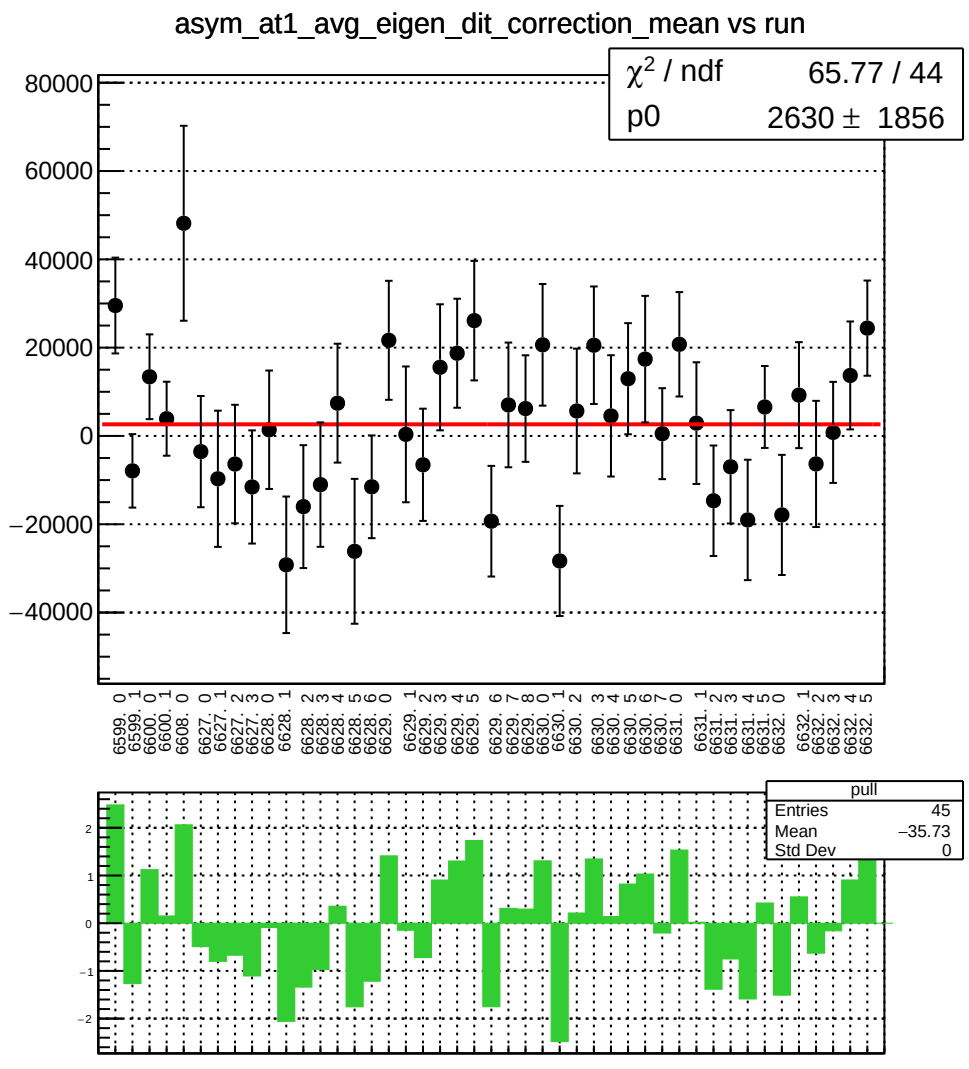
6632. 5


asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 65.77 / 44
p0 2630 ± 1856
80000
60000
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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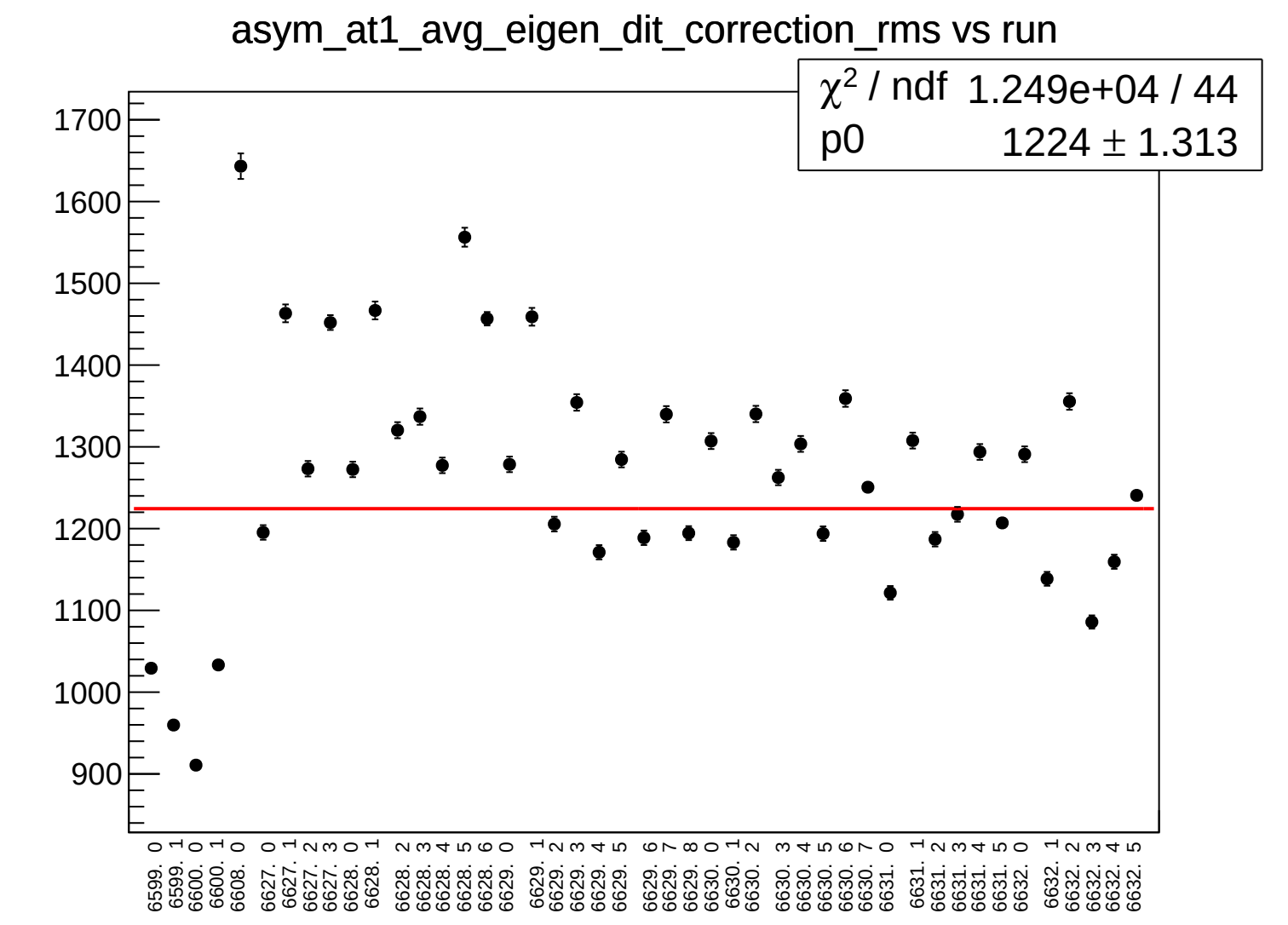
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −35.73
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01413
Std Dev 1.209
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.249e+04 / 44
p0 1224 ± 1.313
1700
1600
1500
1400
1300
1200
1100
1000
900
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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6628. 4
6628. 5
6628. 6
6629. 0
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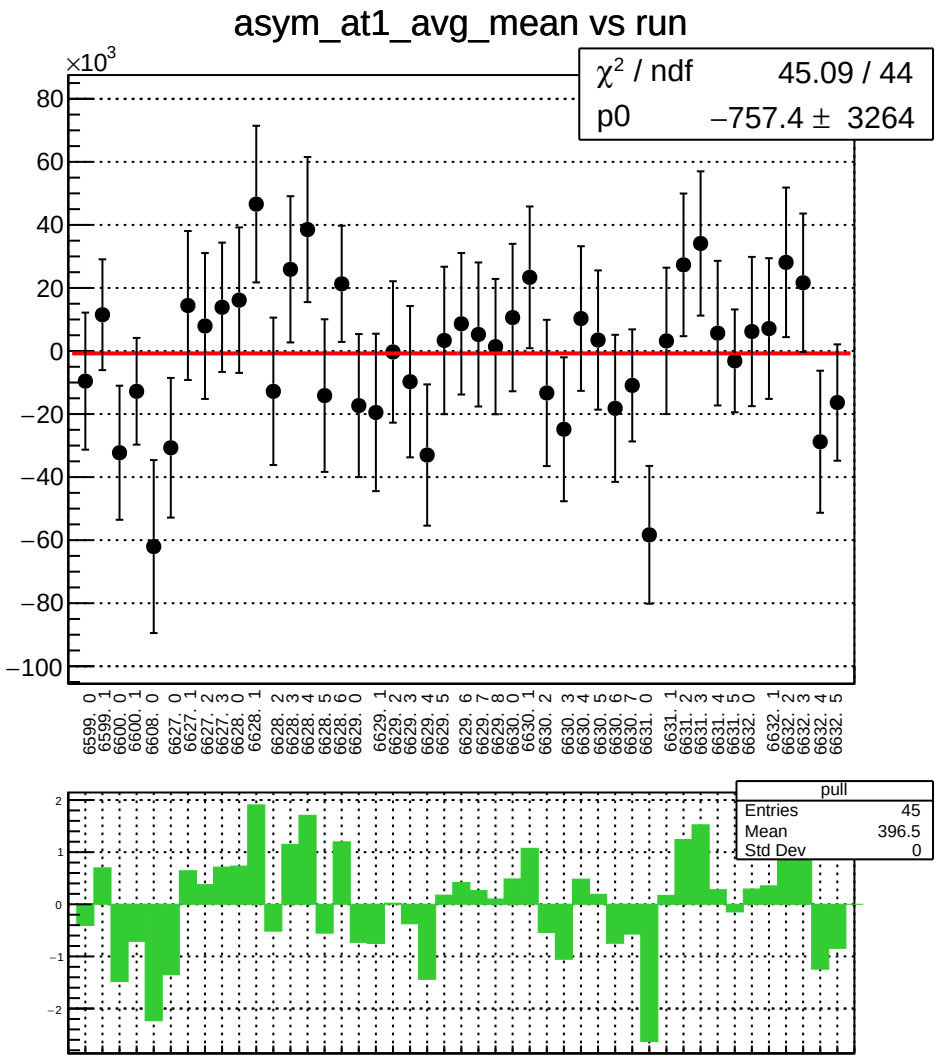
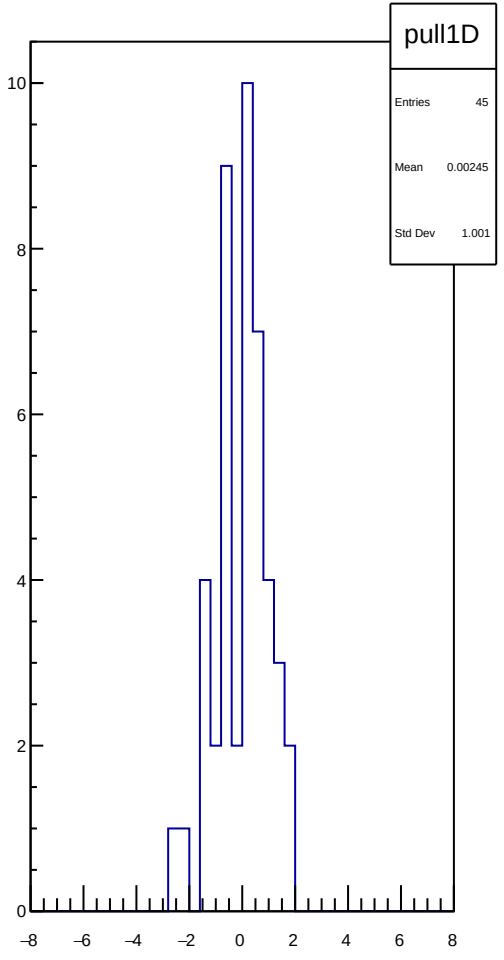
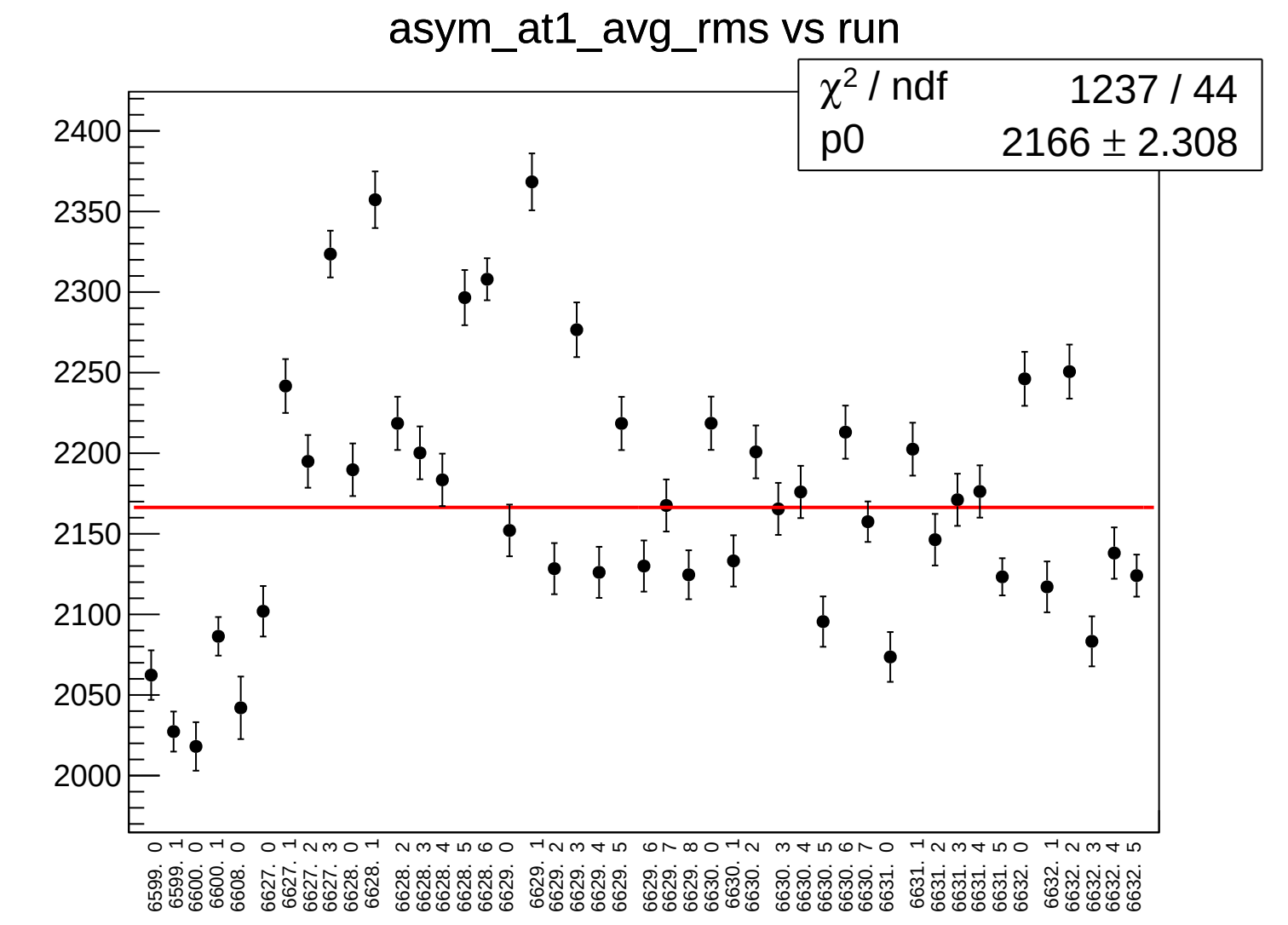
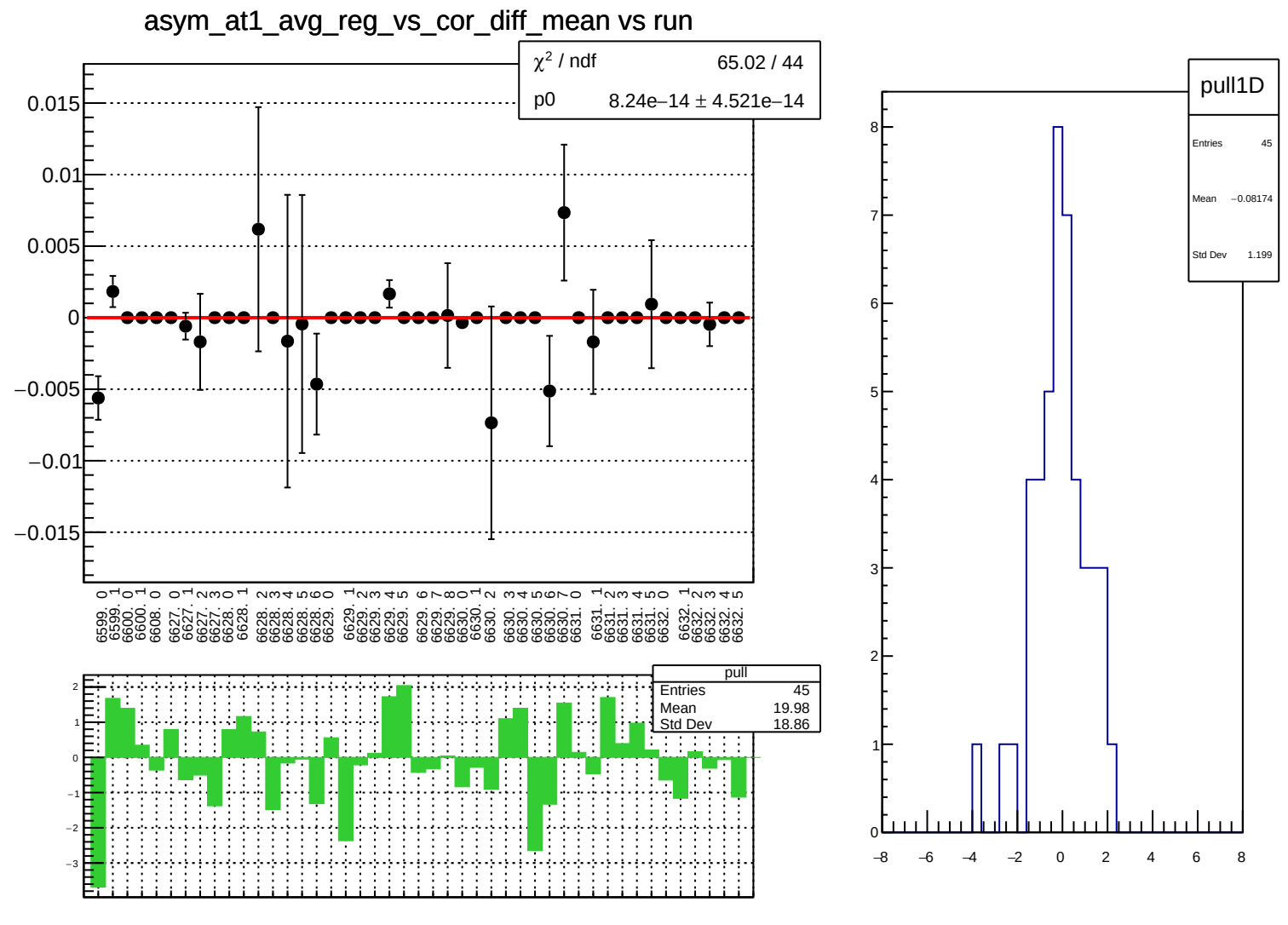
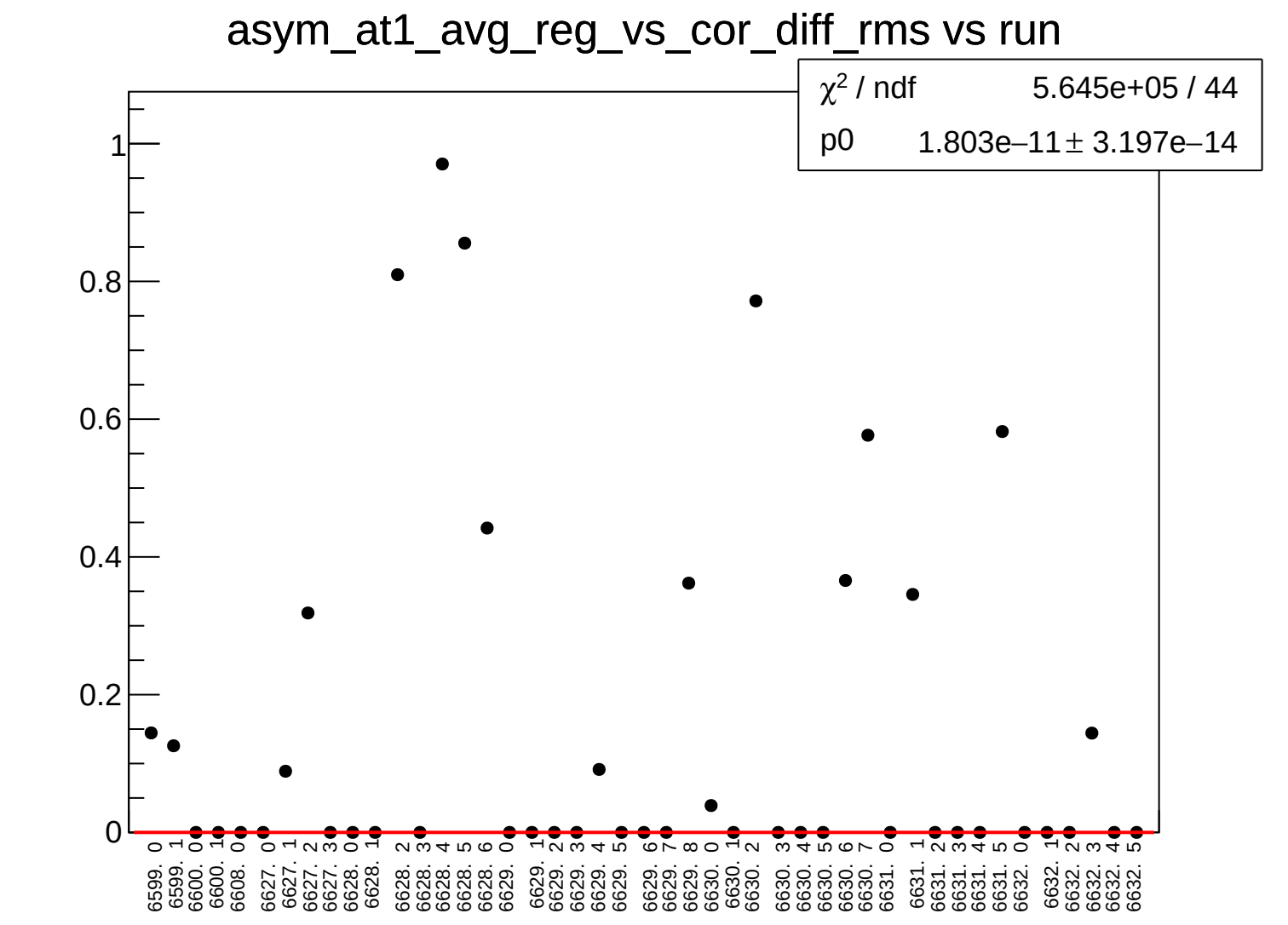
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

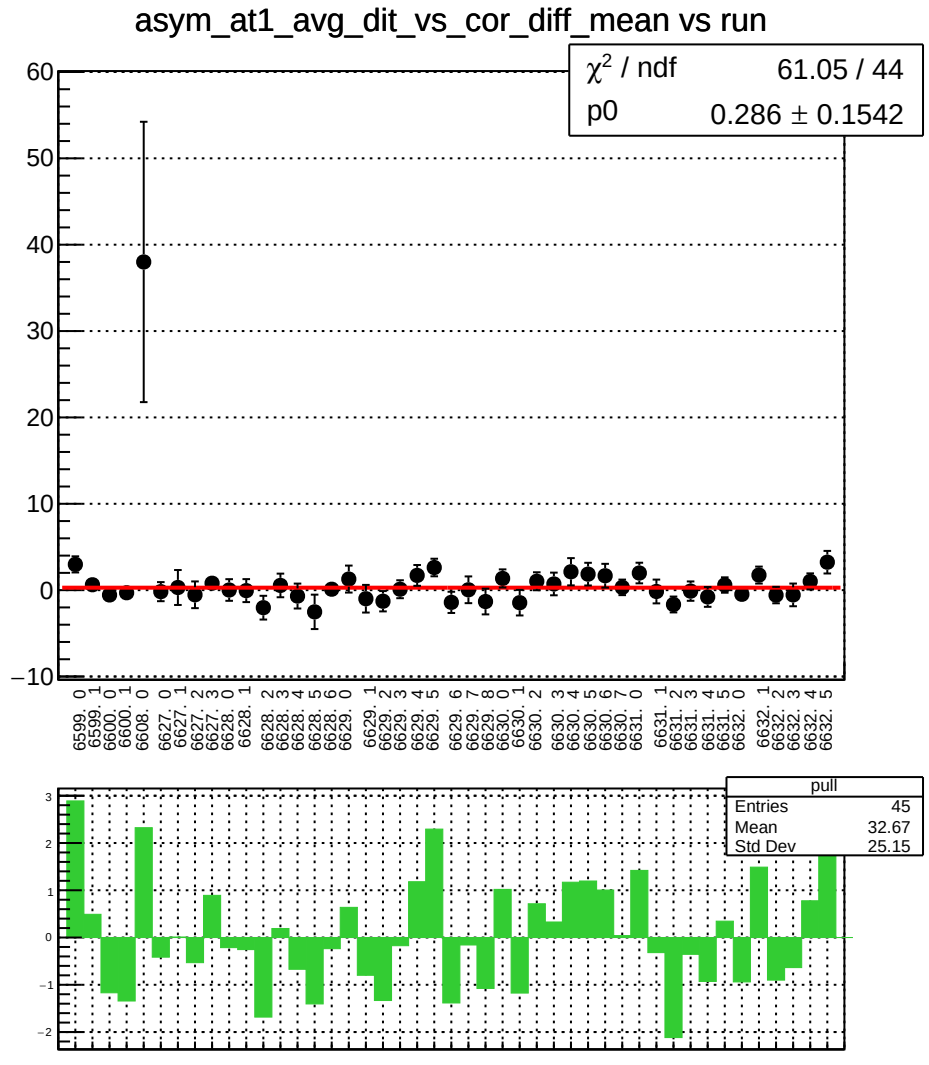

asym_at1_avg_mean vs run
×10^3
χ² / ndf 45.09 / 44
p0 −757.4 ± 3264
80
60
40
20
0
−20
−40
−60
−80
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 396.5
Std Dev 0
2
1
0
−1
−2

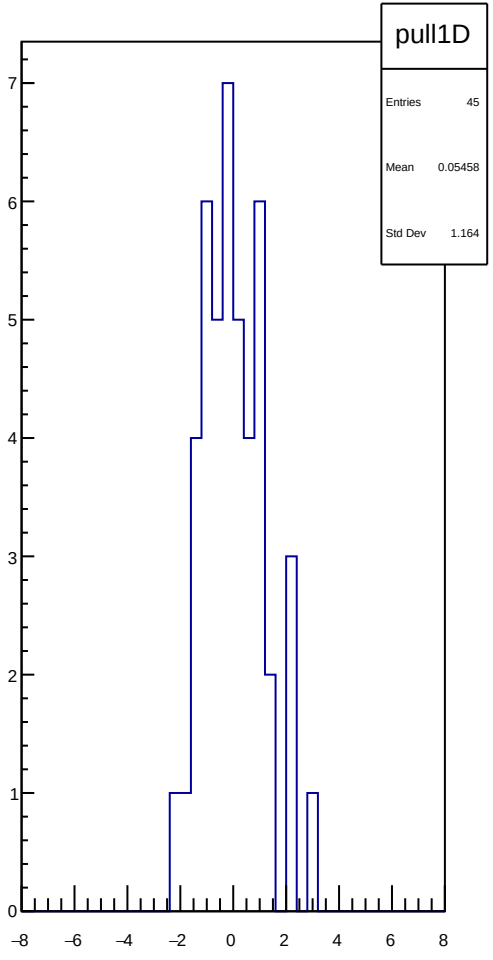

pull1D
Entries 45
Mean 0.00245
Std Dev 1.001
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

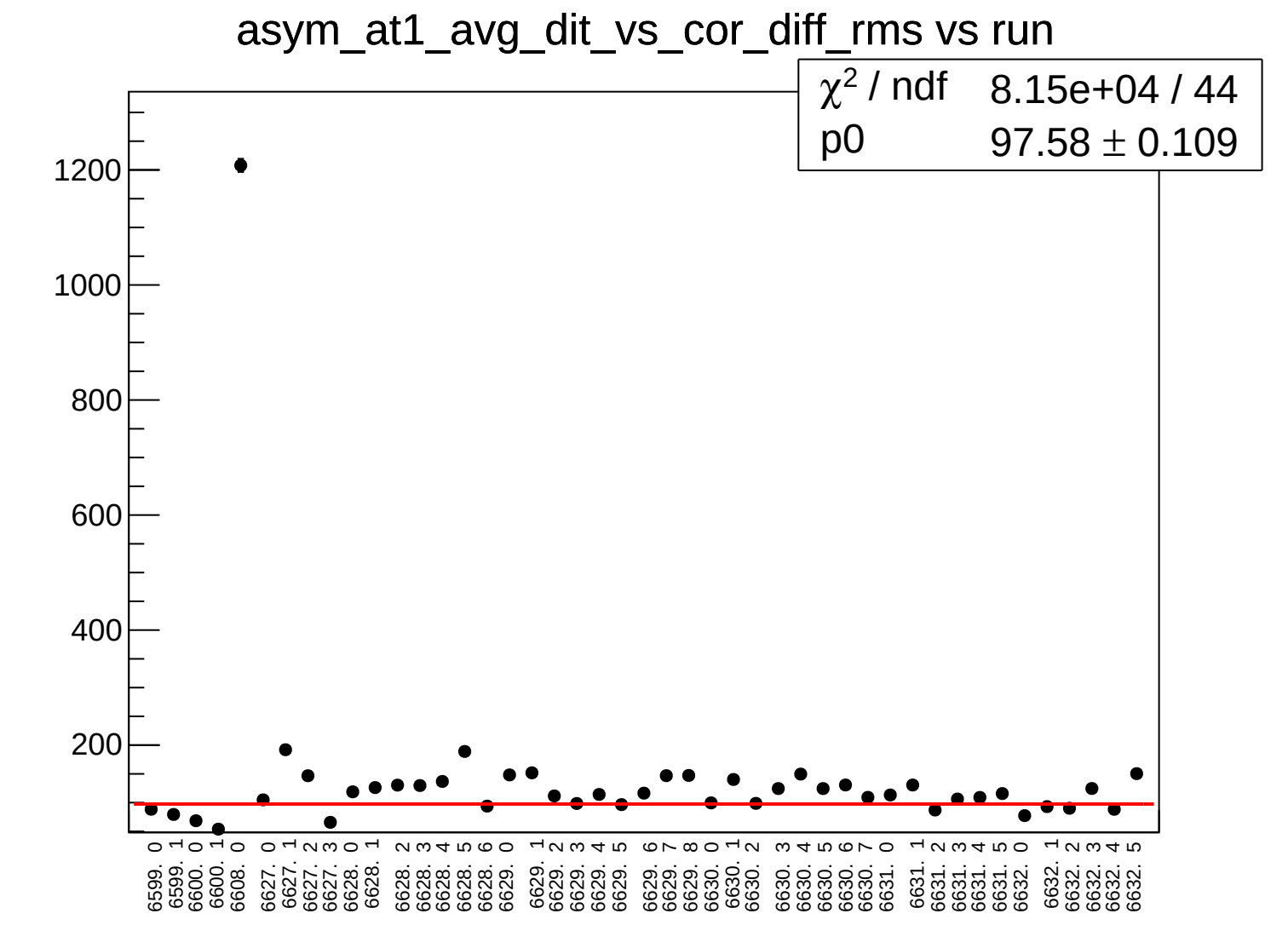

asym_at1_avg_rms vs run
χ² / ndf 1237 / 44
p0 2166 ± 2.308
2400
2350
2300
2250
2200
2150
2100
2050
2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

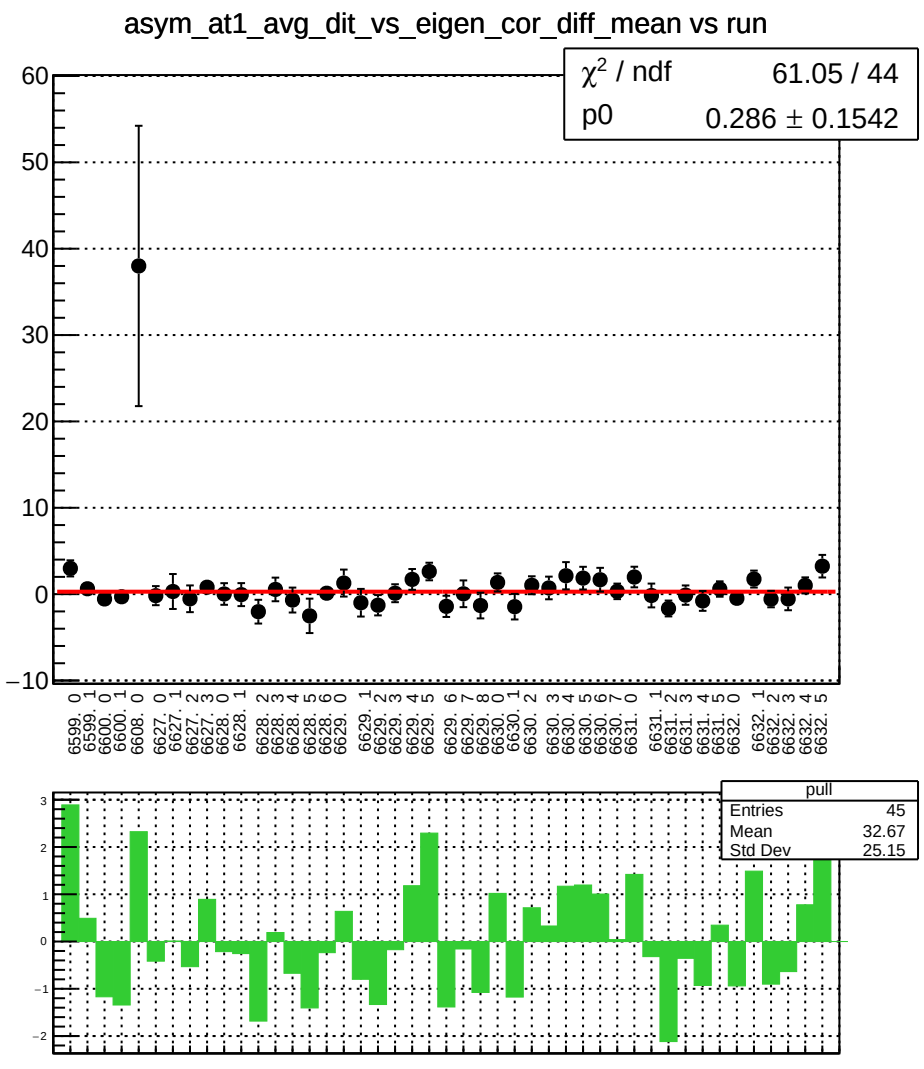

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 65.02 / 44
p0 8.24e−14 ± 4.521e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 19.98
Std Dev 18.86
pull1D
Entries 45
Mean −0.08174
Std Dev 1.199

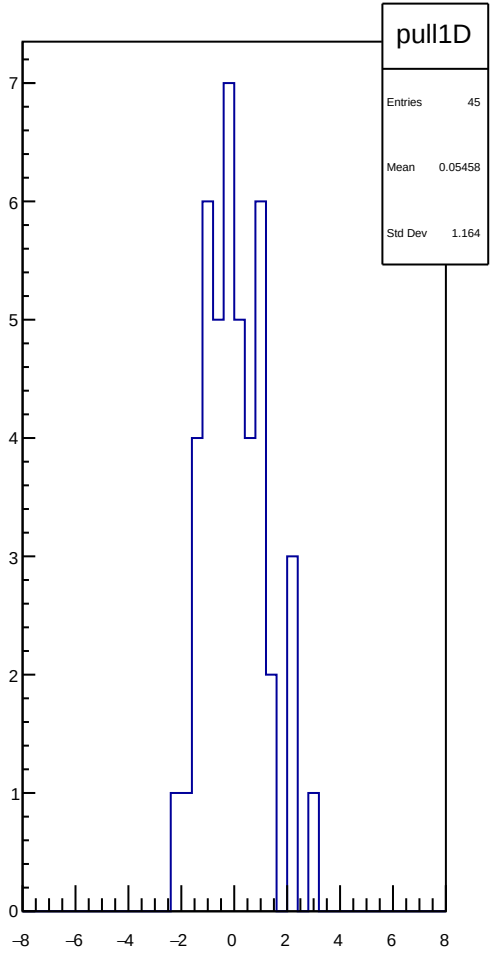

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.645e+05 / 44
p0 1.803e−11 ± 3.197e−14
1
0.8
0.6
0.4
0.2
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

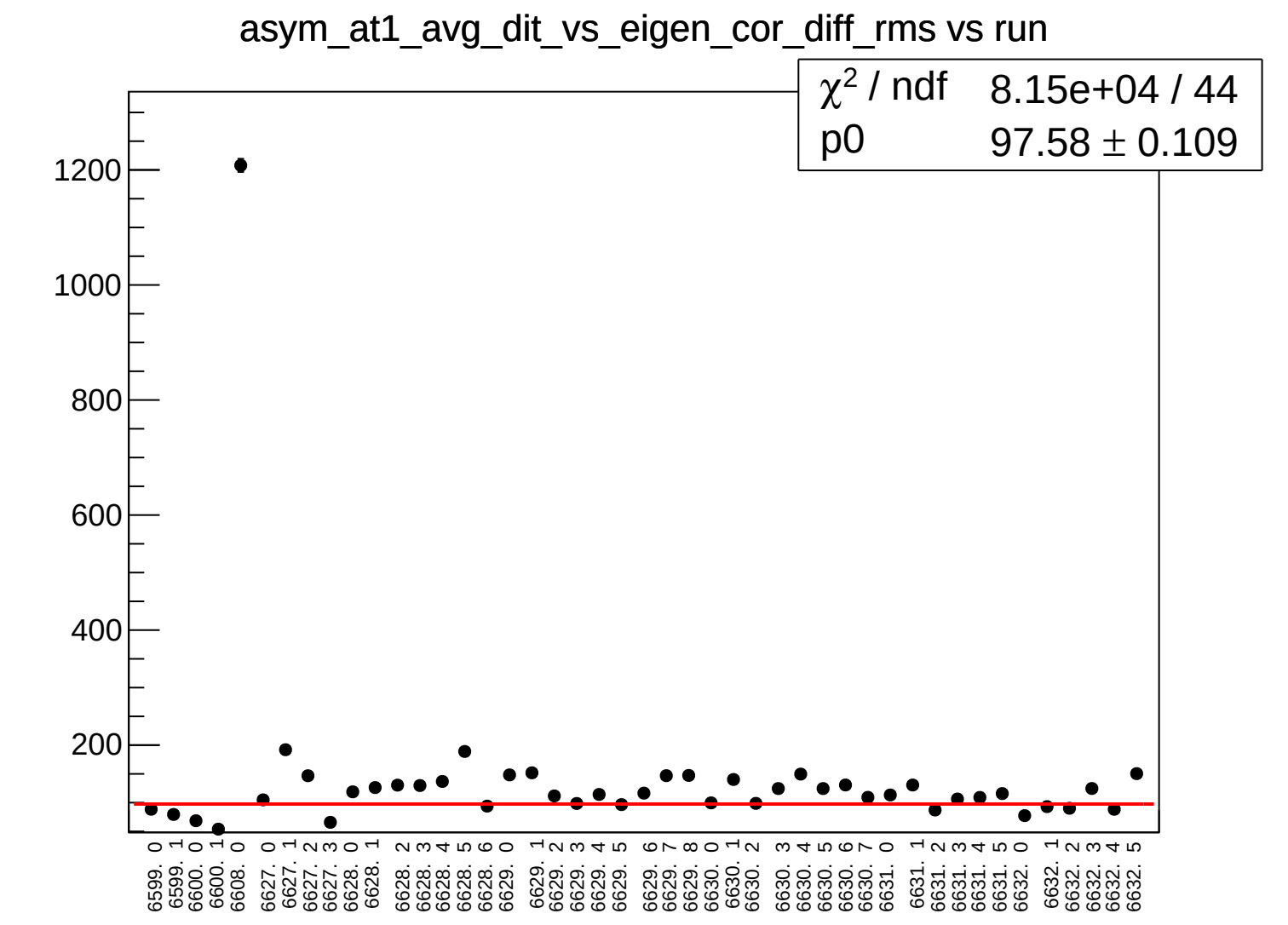

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 61.05 / 44
p0 0.286 ± 0.1542
pull
Entries 45
Mean 32.67
Std Dev 25.15

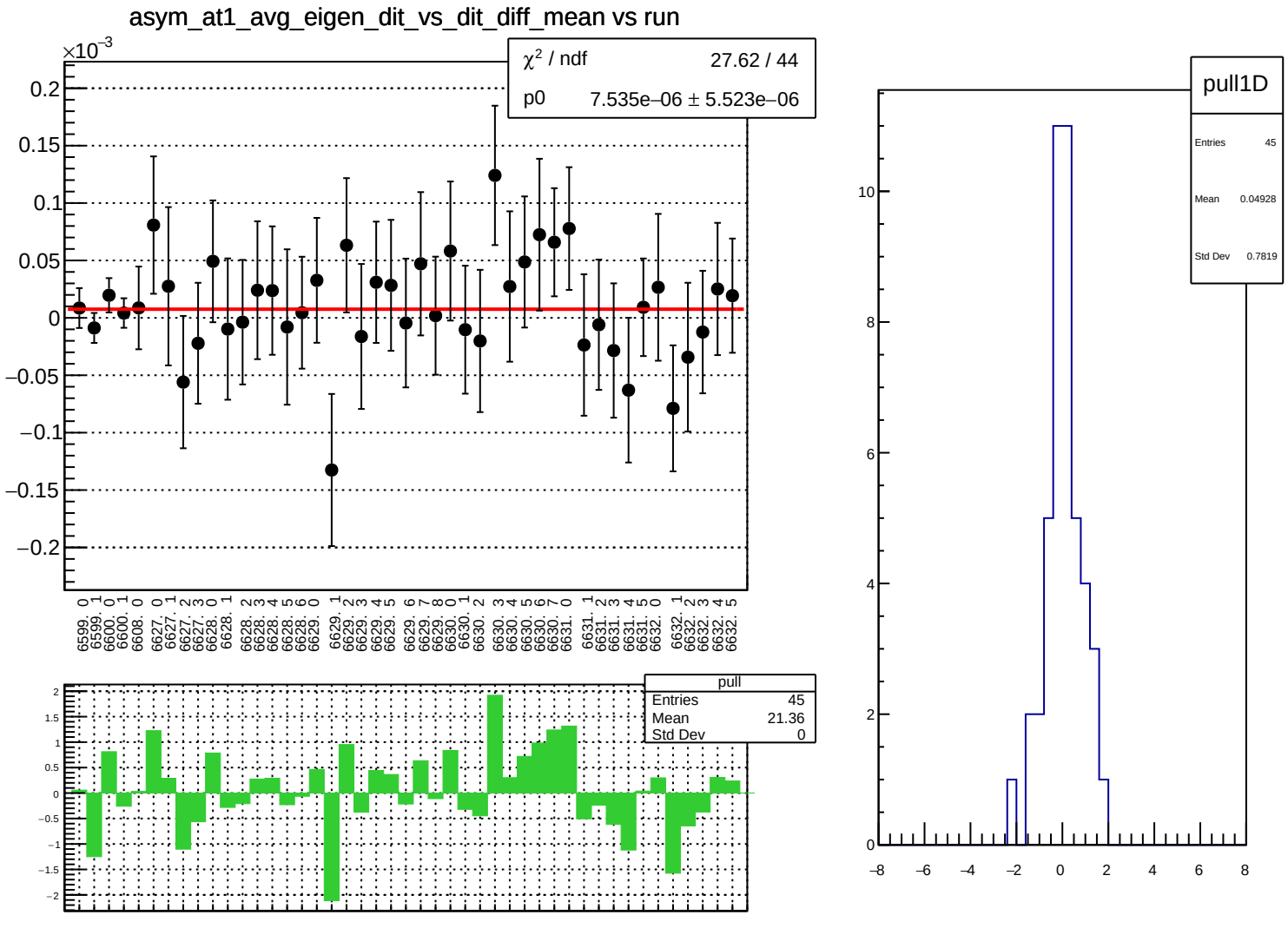

pull1D
Entries 45
Mean 0.05458
Std Dev 1.164

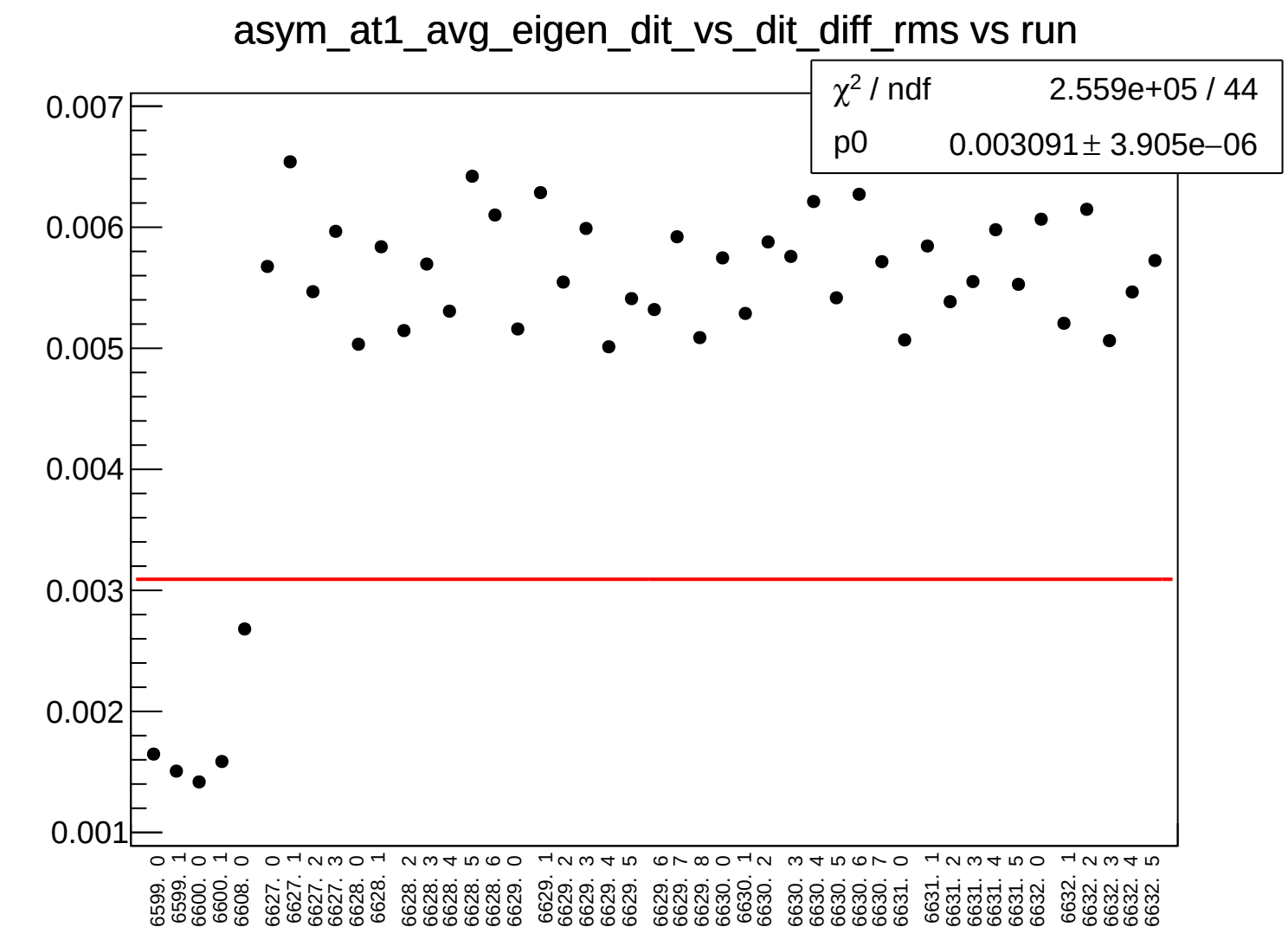

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.15e+04 / 44
p0 97.58 ± 0.109
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

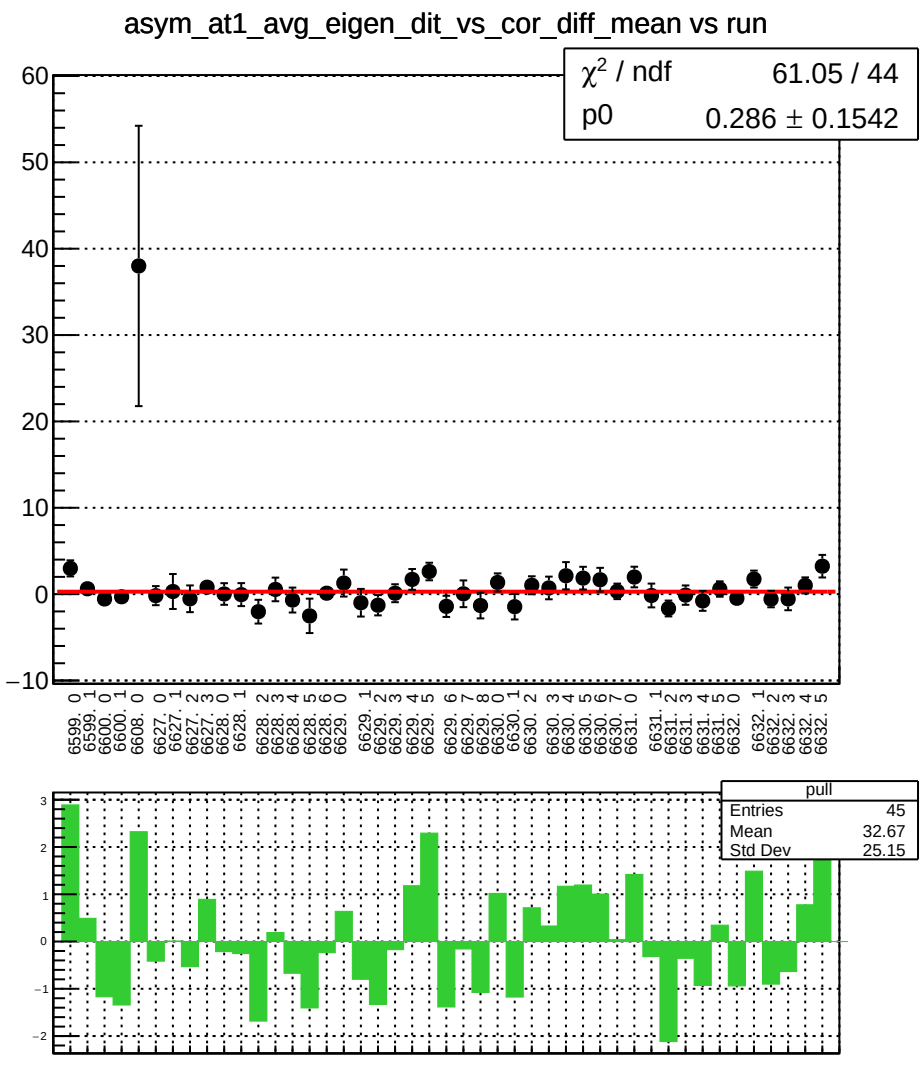

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.05 / 44
p0 0.286 ± 0.1542
pull
Entries 45
Mean 32.67
Std Dev 25.15

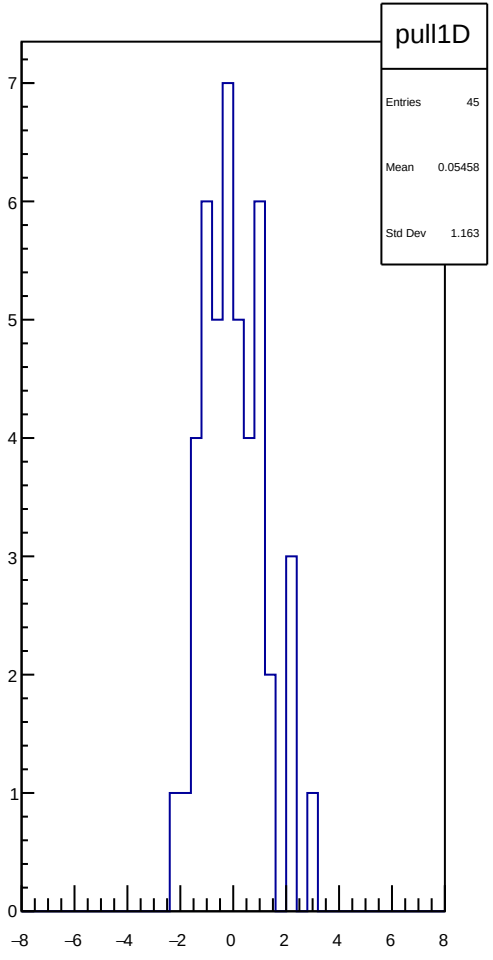

pull1D
Entries 45
Mean 0.05458
Std Dev 1.164

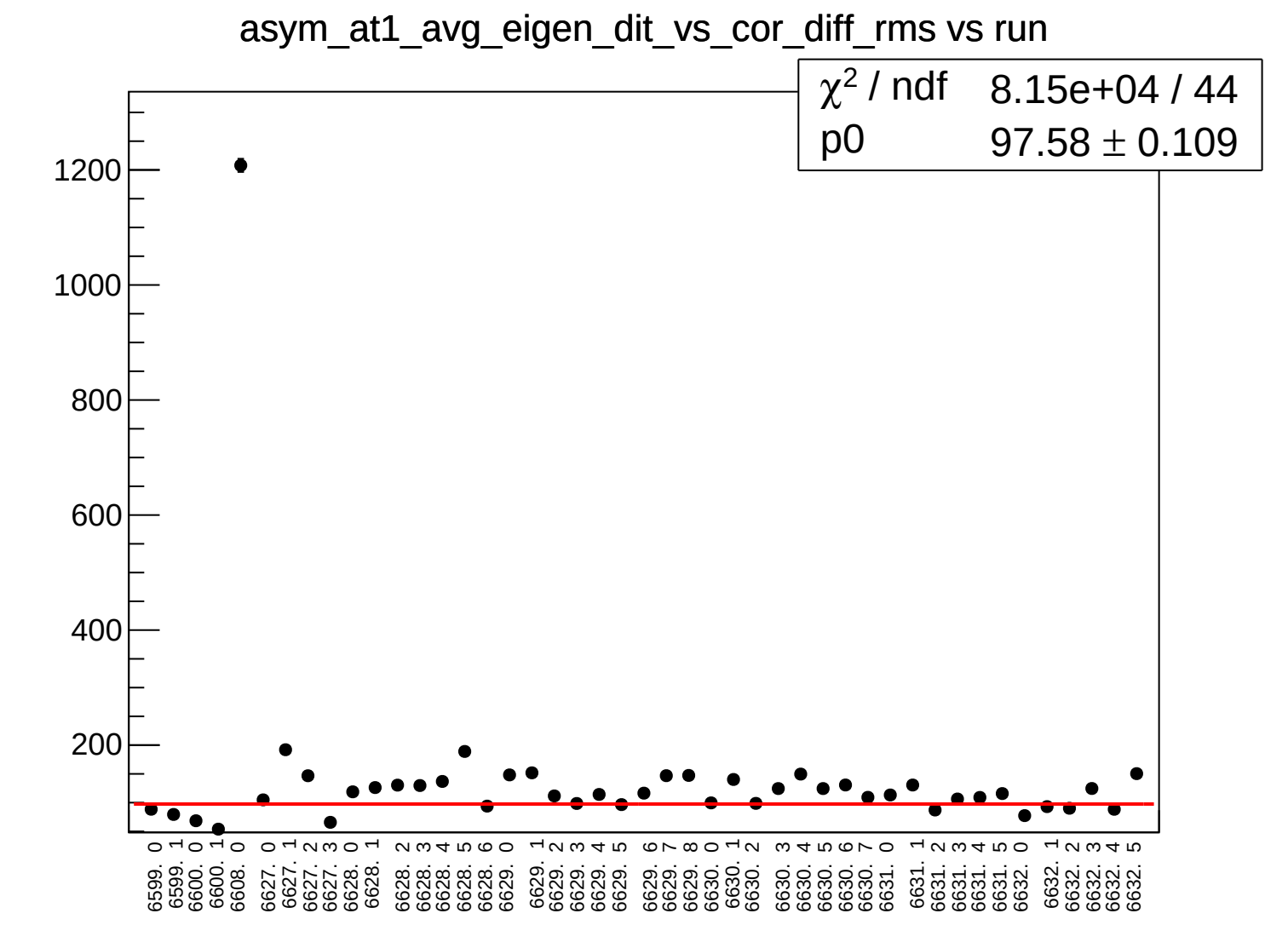

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.15e+04 / 44
p0 97.58 ± 0.109
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

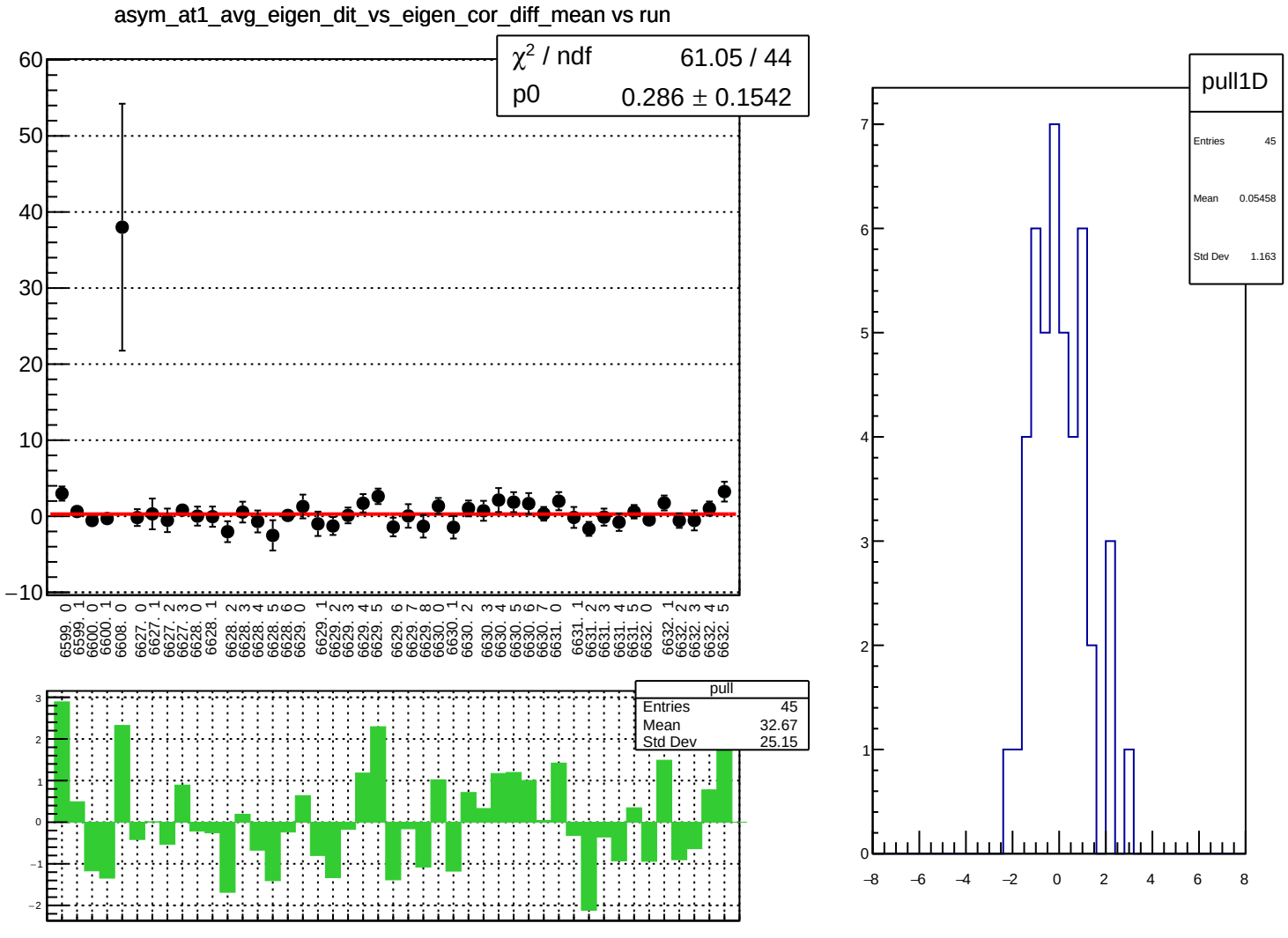

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 27.62 / 44
p0 7.535e−06 ± 5.523e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 21.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.04928
Std Dev 0.7819
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

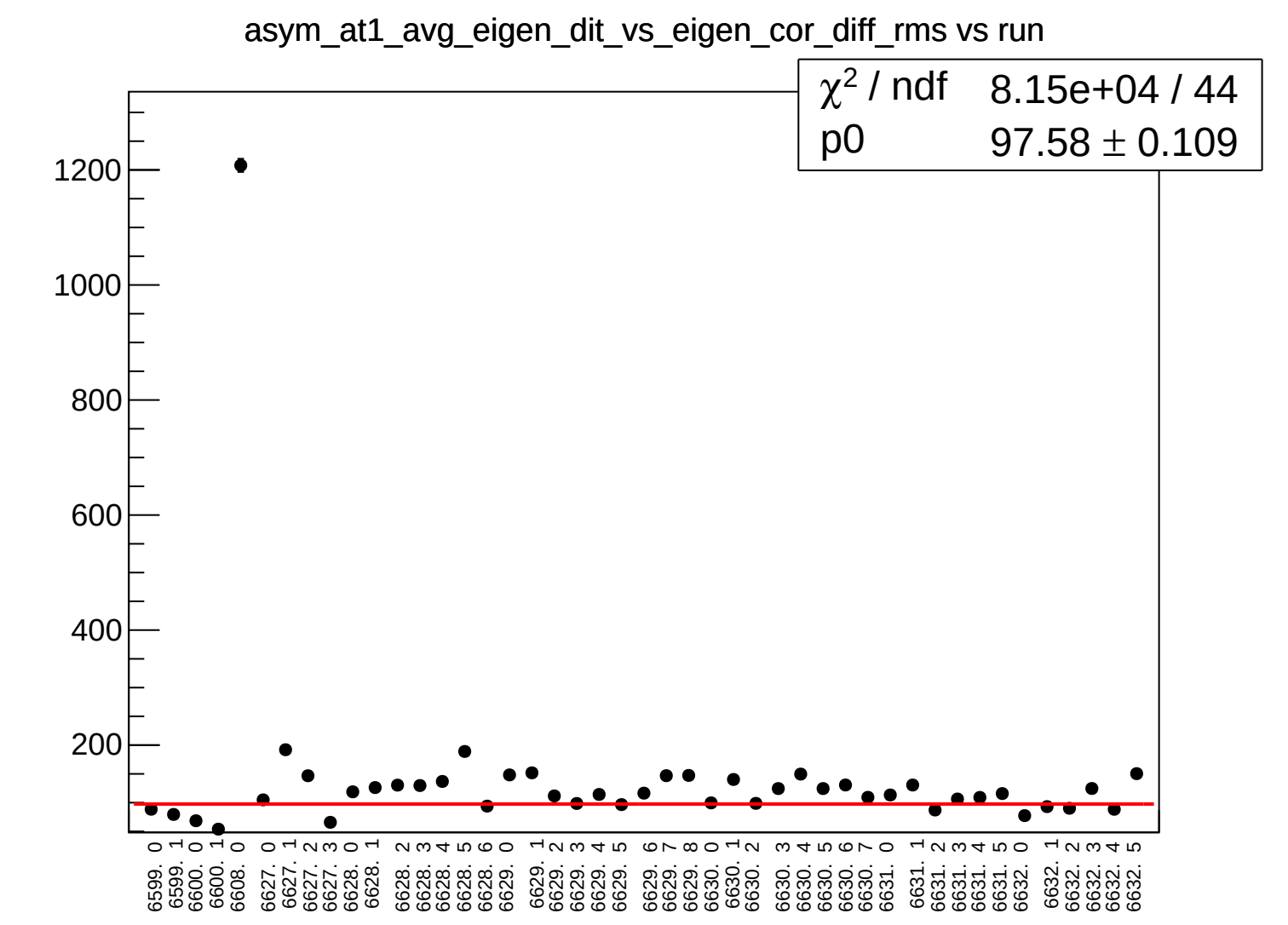

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.559e+05 / 44
p0 0.003091 ± 3.905e−06
0.007
0.006
0.005
0.004
0.003
0.002
0.001
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

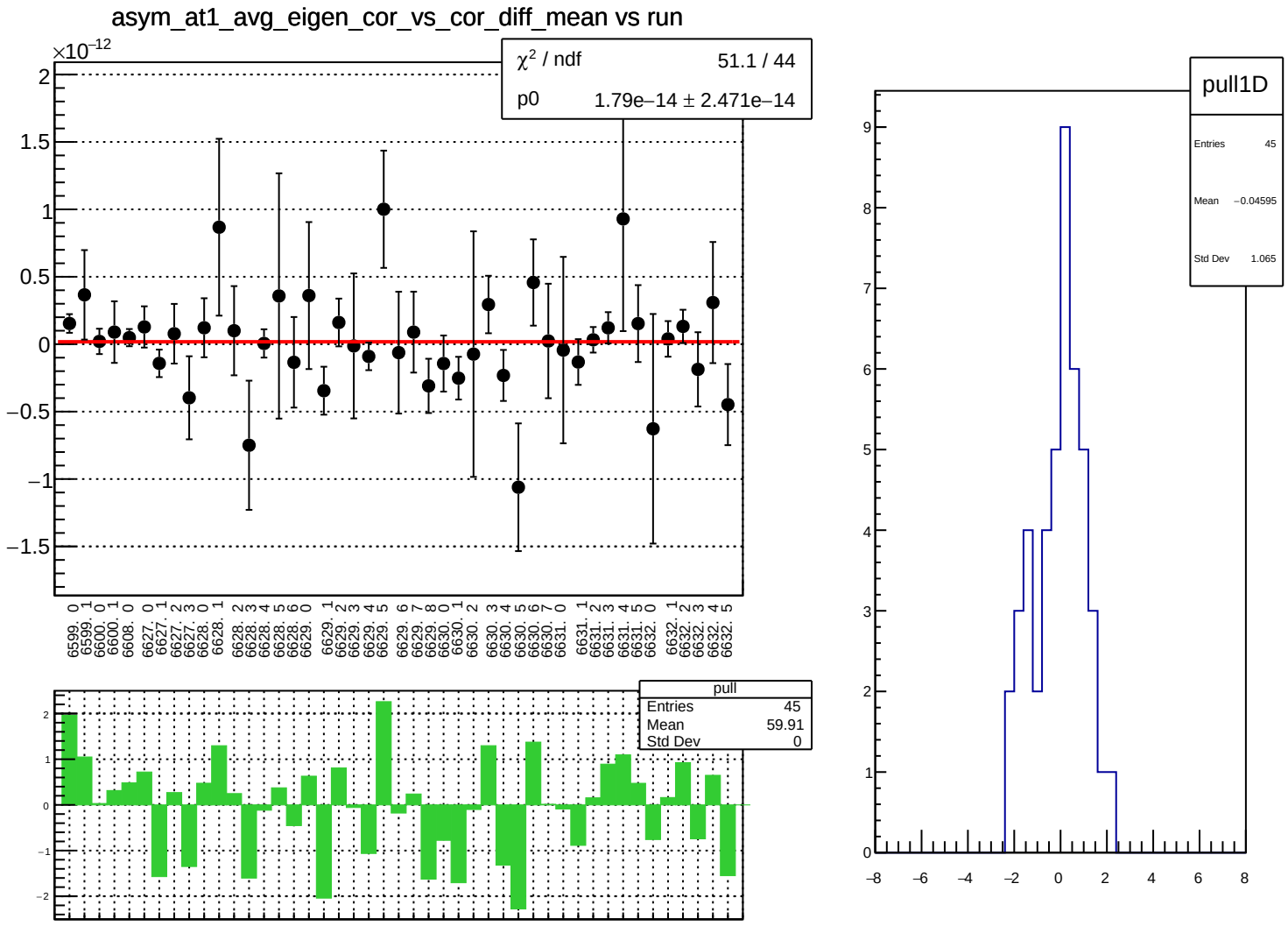

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 61.05 / 44
p0 0.286 ± 0.1542
pull
Entries 45
Mean 32.67
Std Dev 25.15

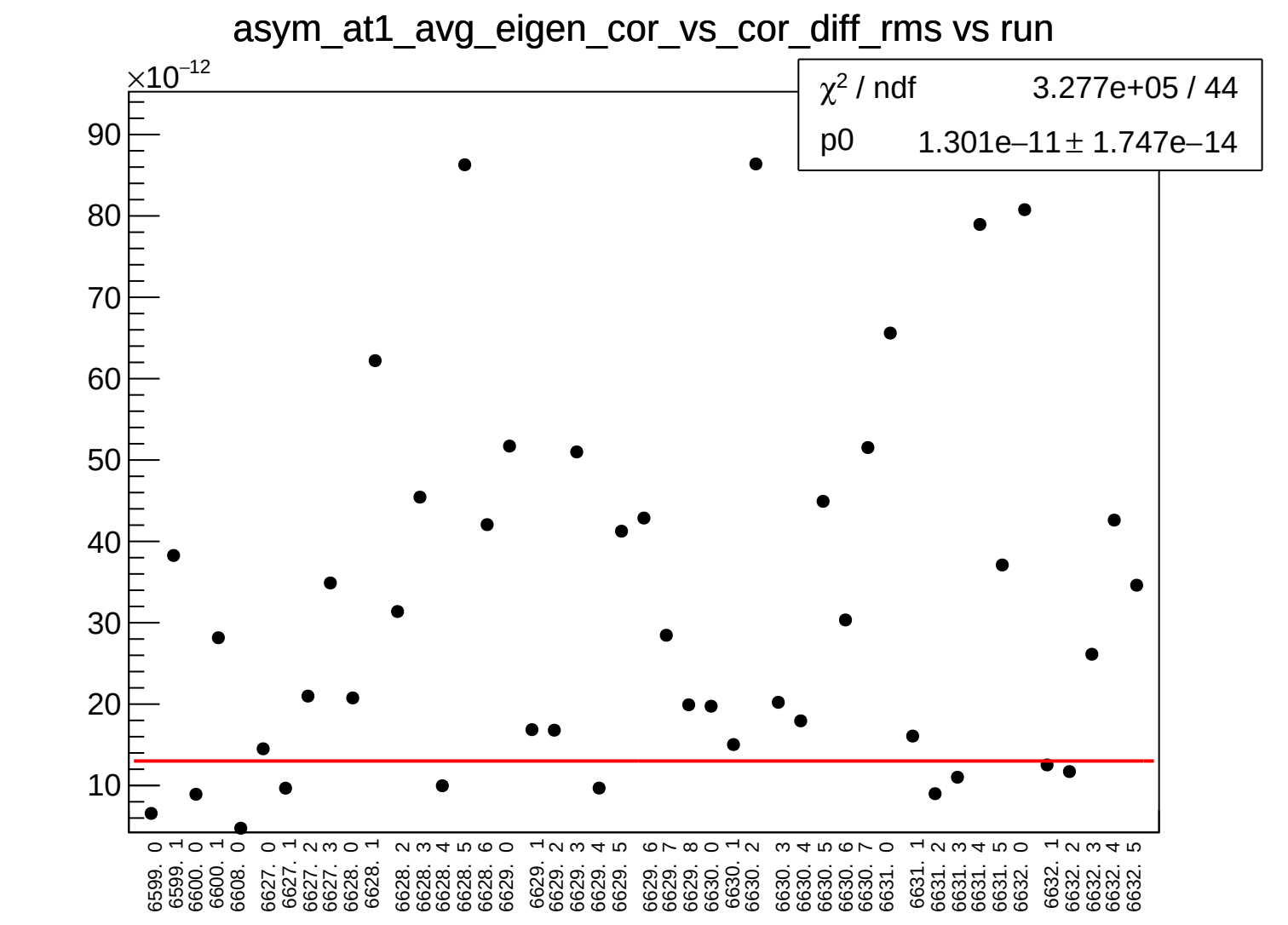

pull1D
Entries 45
Mean 0.05458
Std Dev 1.163

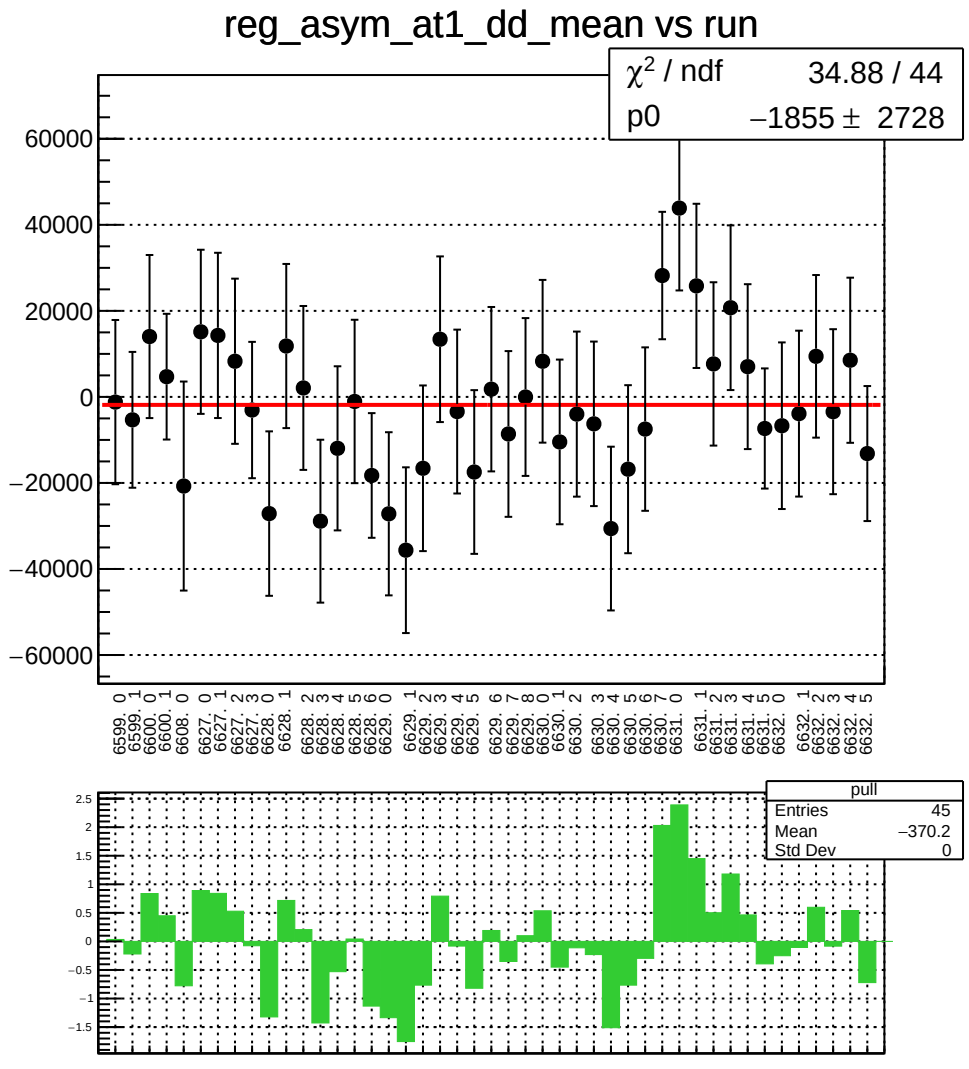

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.15e+04 / 44
p0 97.58 ± 0.109
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

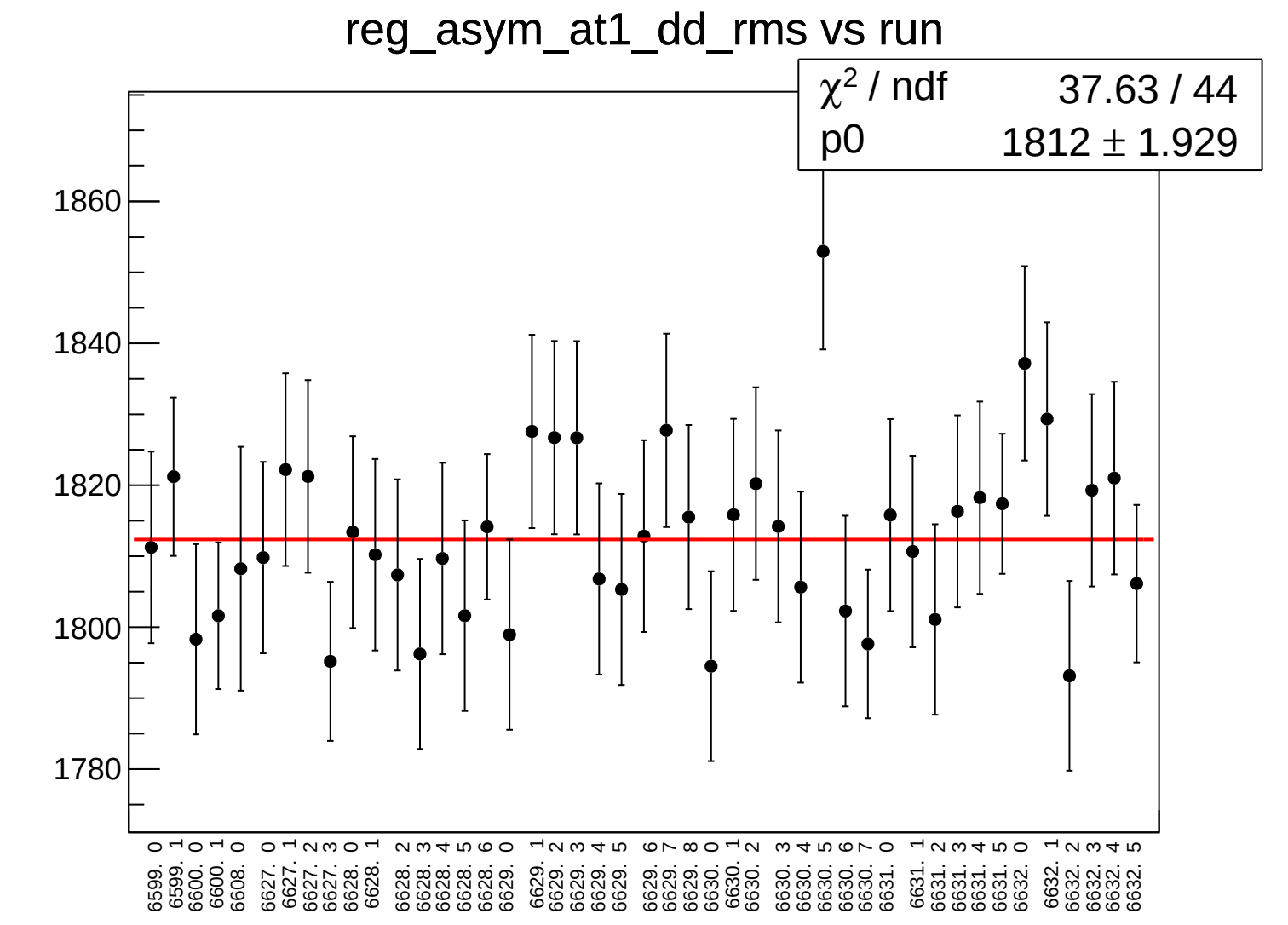

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.05 / 44
p0 0.286 ± 0.1542
pull
Entries 45
Mean 32.67
Std Dev 25.15
pull1D
Entries 45
Mean 0.05458
Std Dev 1.163


asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.15e+04 / 44
p0 97.58 ± 0.109
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 51.1 / 44
p0 1.79e−14 ± 2.471e−14
pull
Entries 45
Mean 59.91
Std Dev 0
pull1D
Entries 45
Mean −0.04595
Std Dev 1.065


asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.277e+05 / 44
p0 1.301e−11 ± 1.747e−14
90
80
70
60
50
40
30
20
10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


reg_asym_at1_dd_mean vs run
$\chi^2$ / ndf 34.88 / 44
p0 −1855 ± 2728
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −370.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.004164
Std Dev 0.8803
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at1_dd_rms vs run
χ² / ndf 37.63 / 44
p0 1812 ± 1.929
1860
1840
1820
1800
1780
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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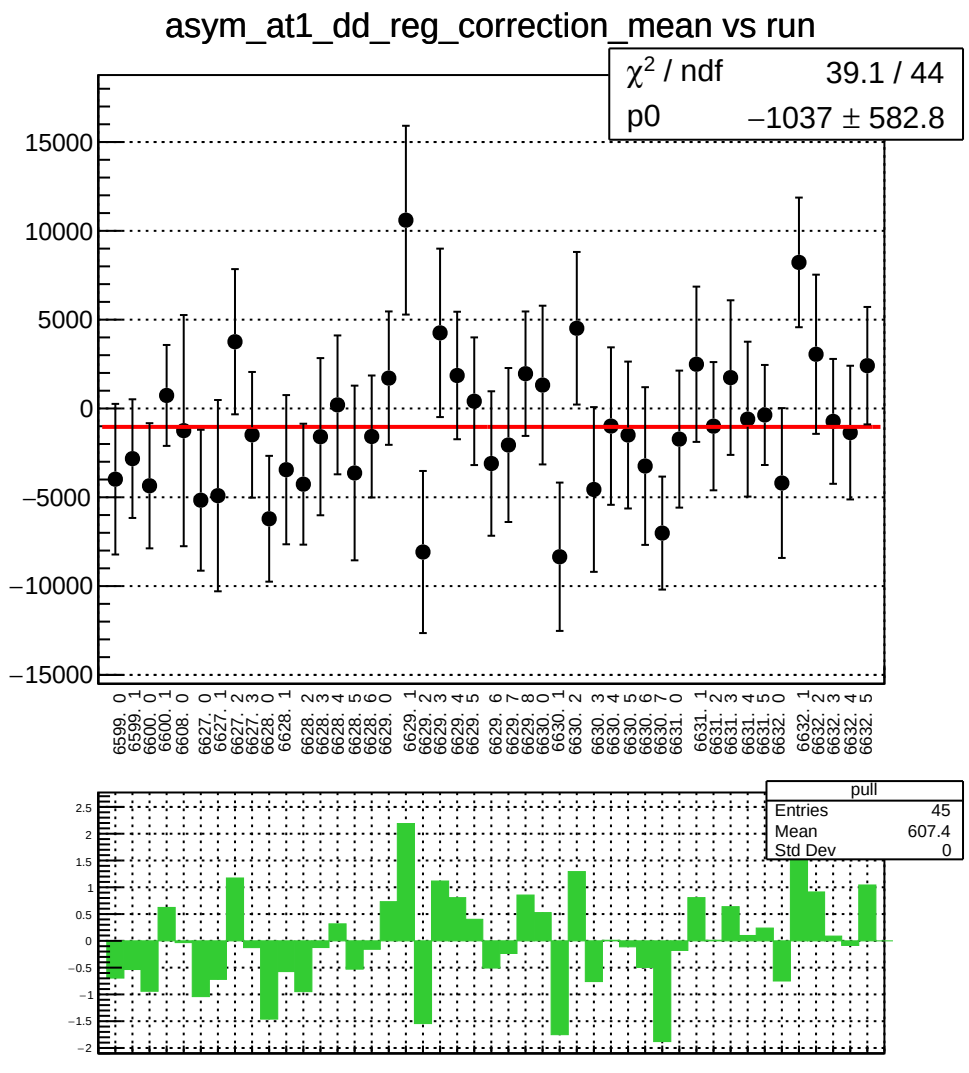
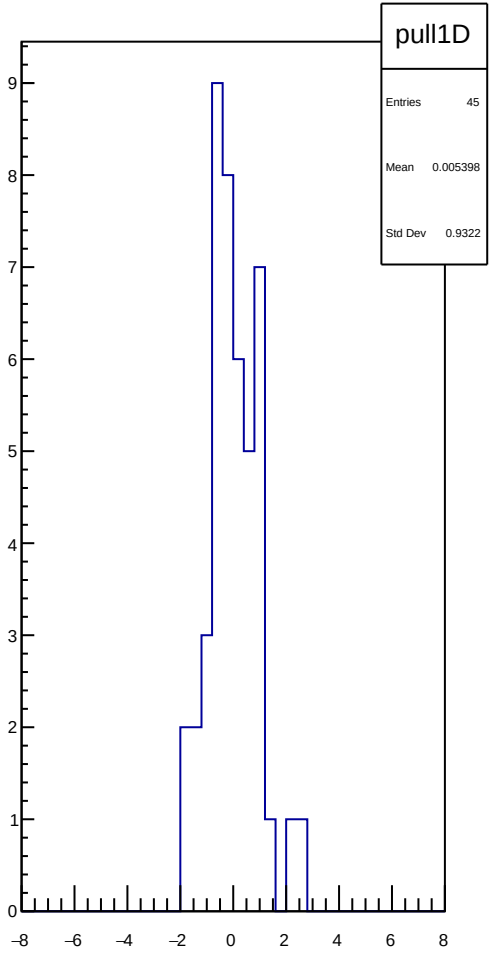
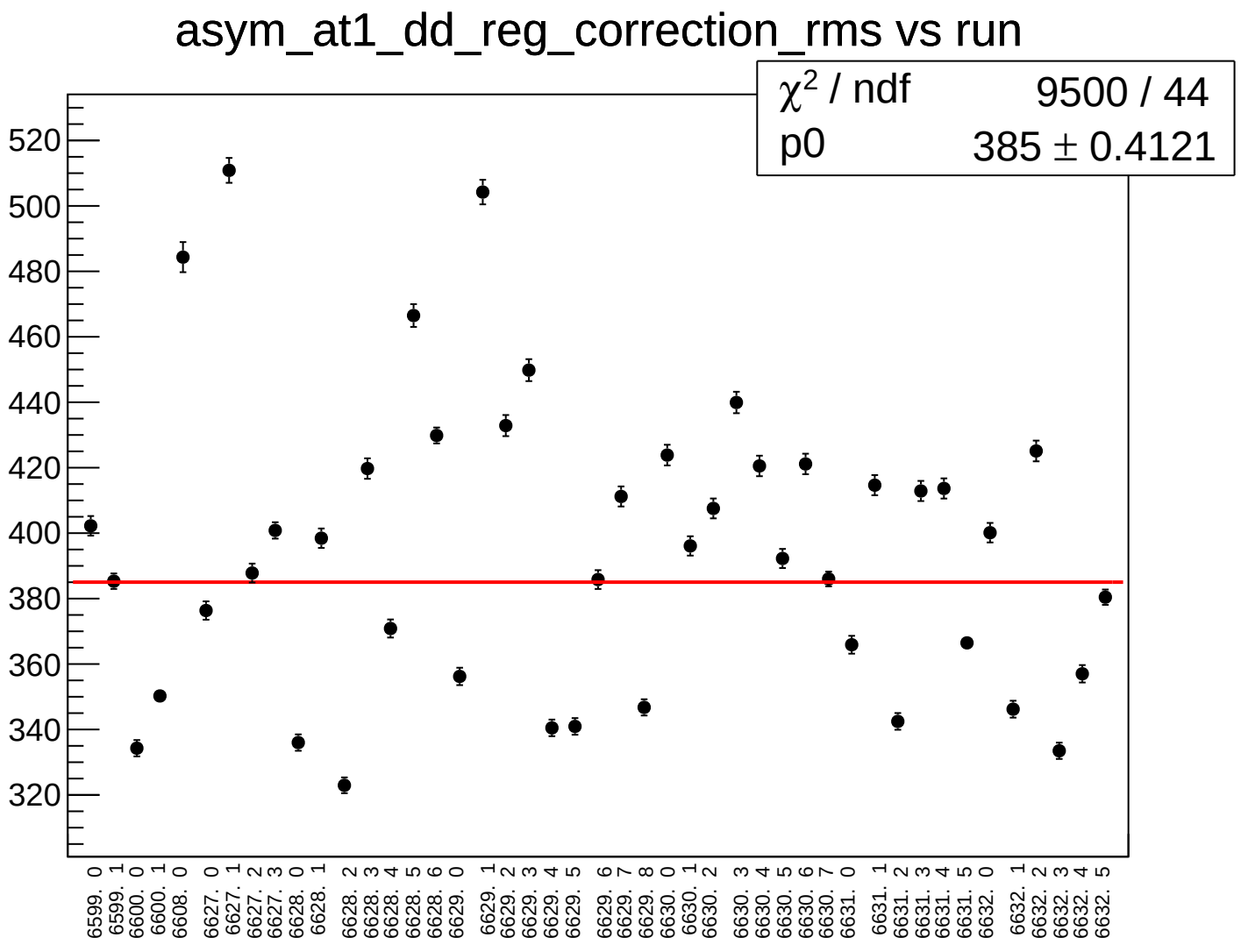
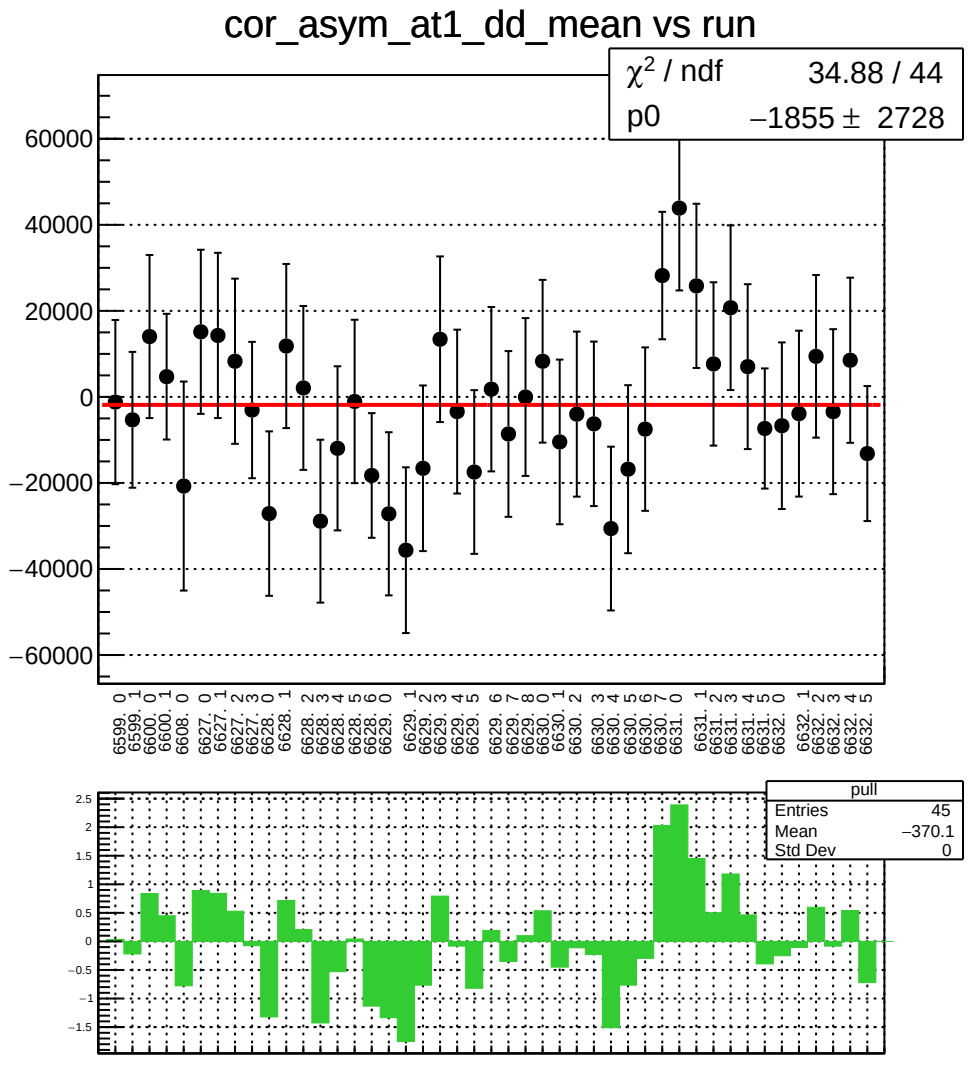
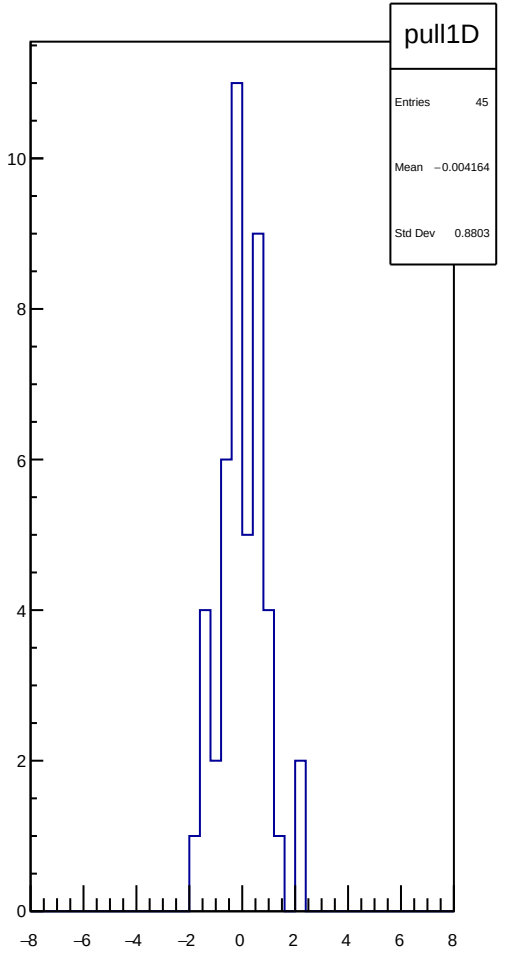
6632. 2
6632. 3
6632. 4
6632. 5

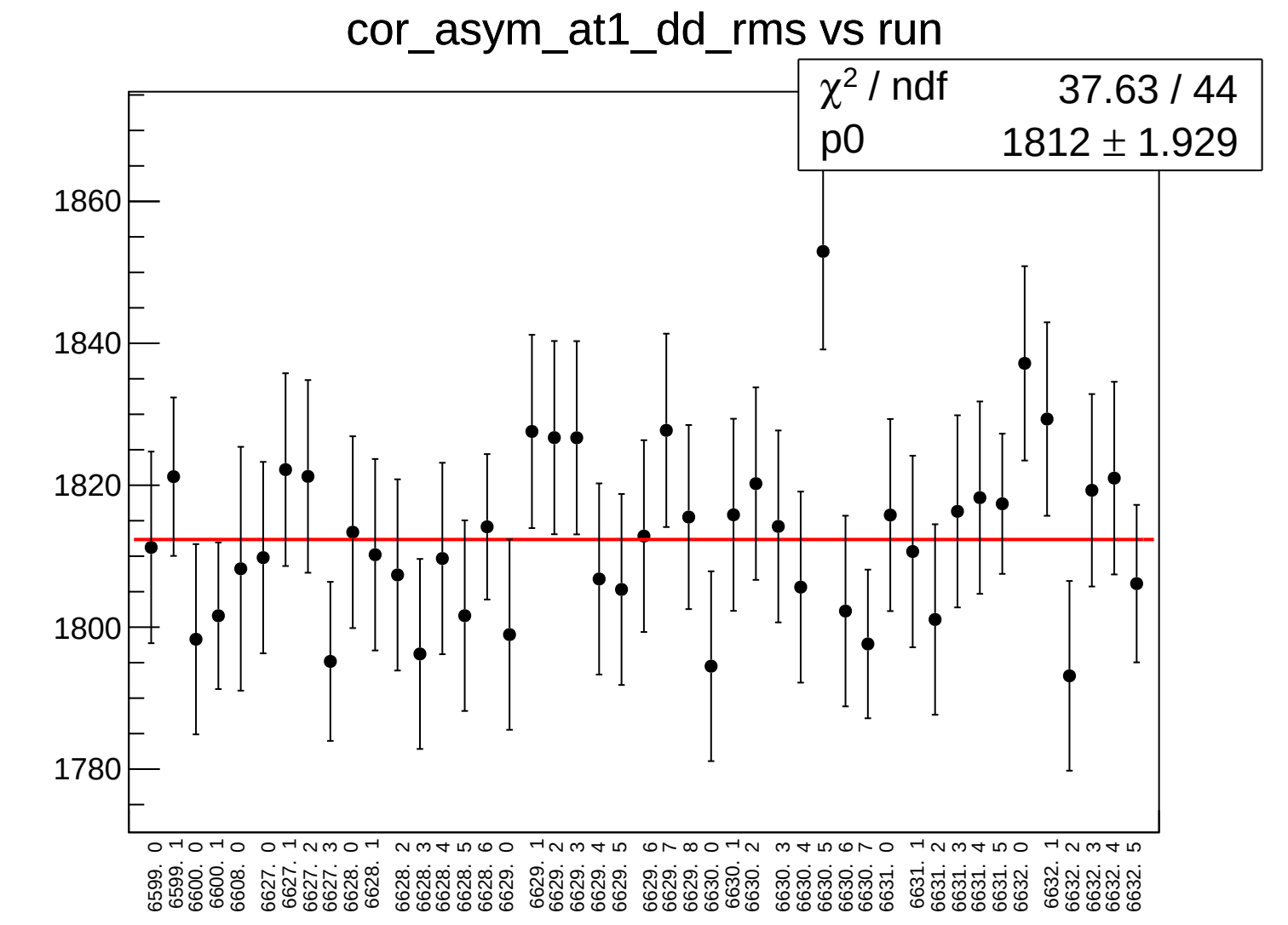

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 39.1 / 44
p0 −1037 ± 582.8
15000
10000
5000
0
−5000
−10000
−15000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 607.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.005398
Std Dev 0.9322
9
8
7
6
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 9500 / 44
p0 385 ± 0.4121
520
500
480
460
440
420
400
380
360
340
320
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_at1_dd_mean vs run
χ² / ndf 34.88 / 44
p0 −1855 ± 2728
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −370.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.004164
Std Dev 0.8803
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_at1_dd_rms vs run
χ² / ndf 37.63 / 44
p0 1812 ± 1.929
1860
1840
1820
1800
1780
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 6
6630. 7
6631. 0
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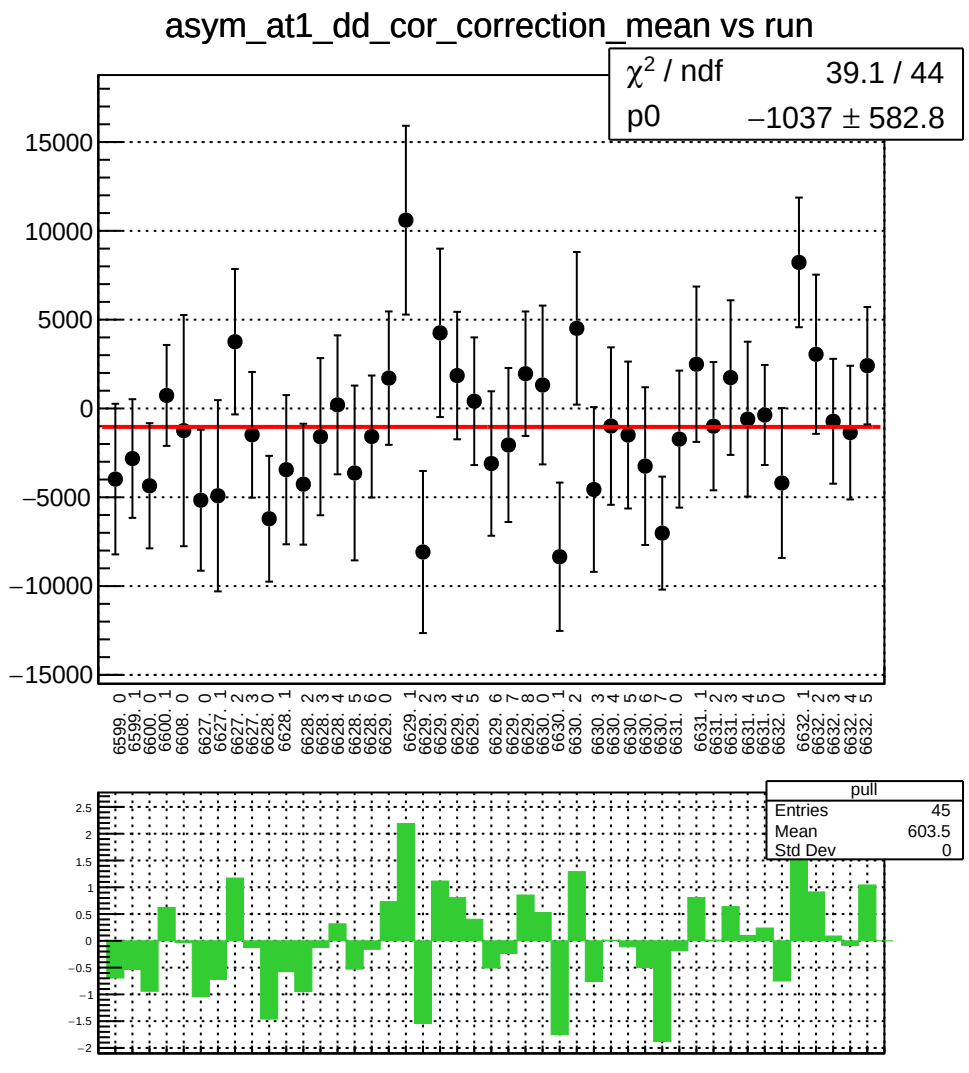
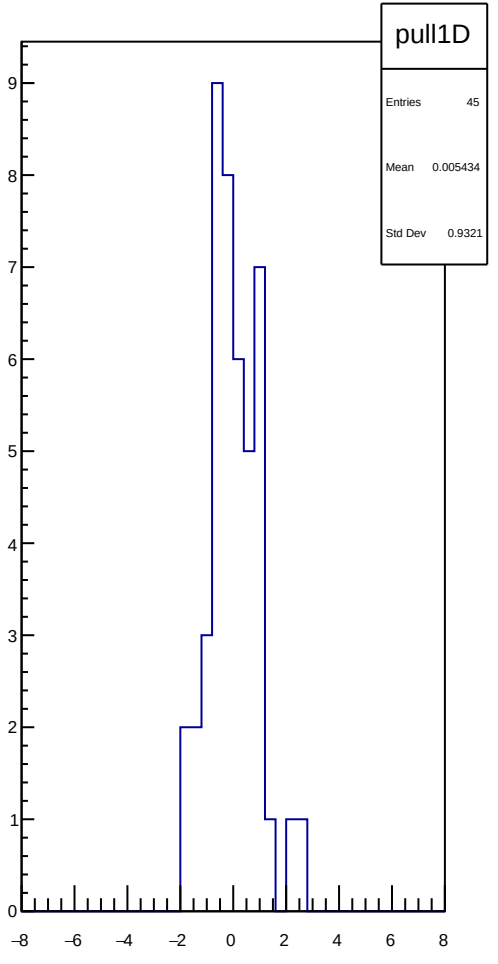
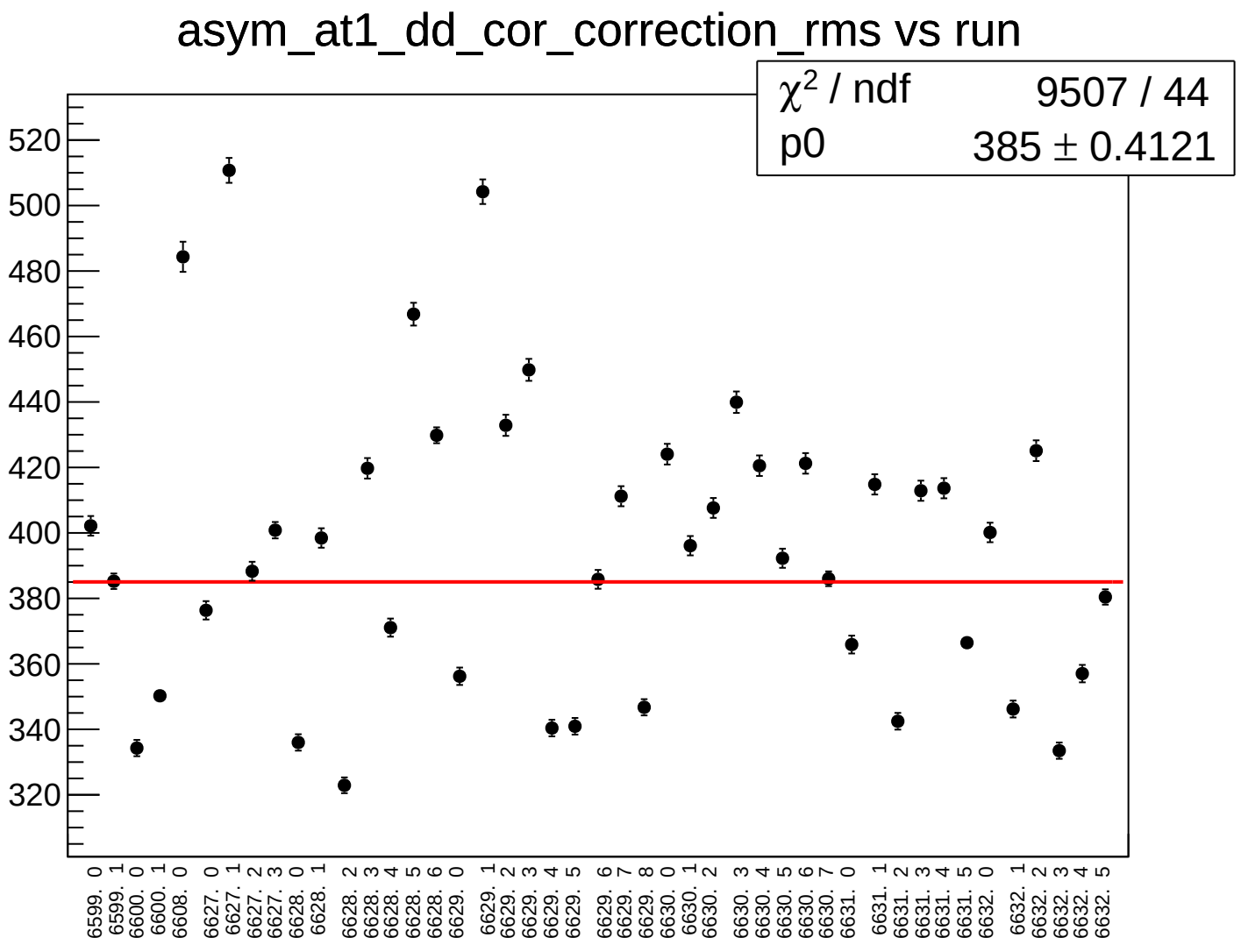
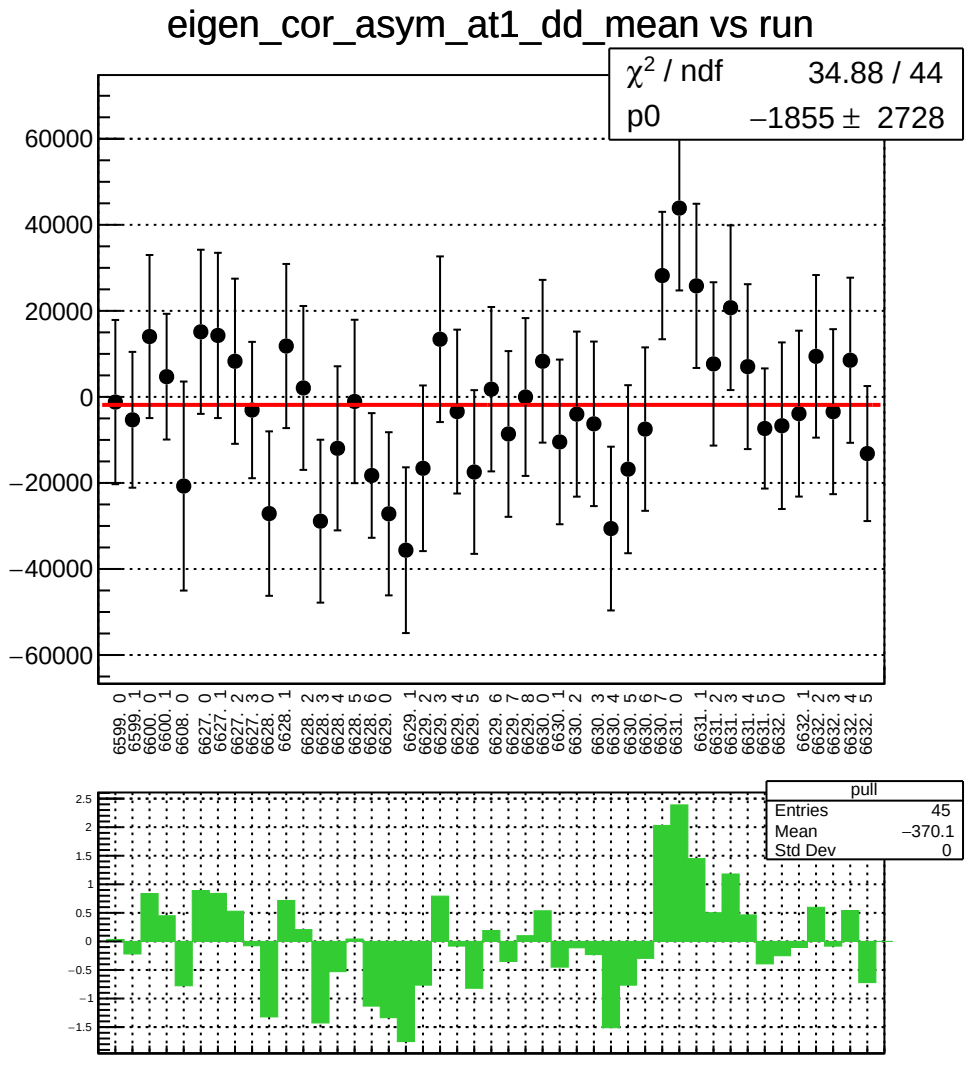
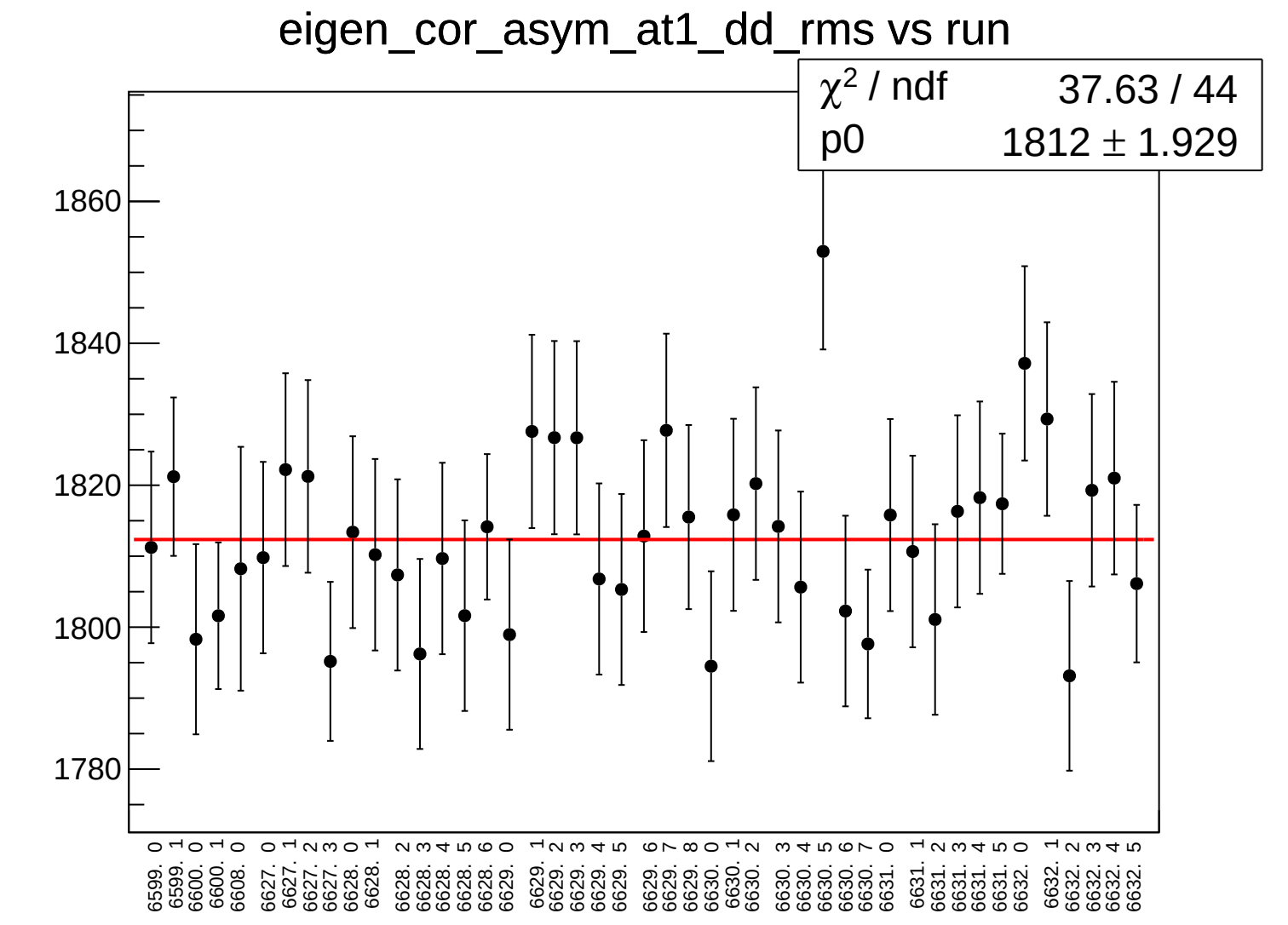
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_at1_dd_cor_correction_mean vs run
χ² / ndf 39.1 / 44
p0 −1037 ± 582.8
15000
10000
5000
0
−5000
−10000
−15000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 603.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.005434
Std Dev 0.9321
9
8
7
6
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 9507 / 44
p0 385 ± 0.4121
520
500
480
460
440
420
400
380
360
340
320
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 34.88 / 44
p0 −1855 ± 2728
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −370.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.004164
Std Dev 0.8803
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 37.63 / 44
p0 1812 ± 1.929
1860
1840
1820
1800
1780
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
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6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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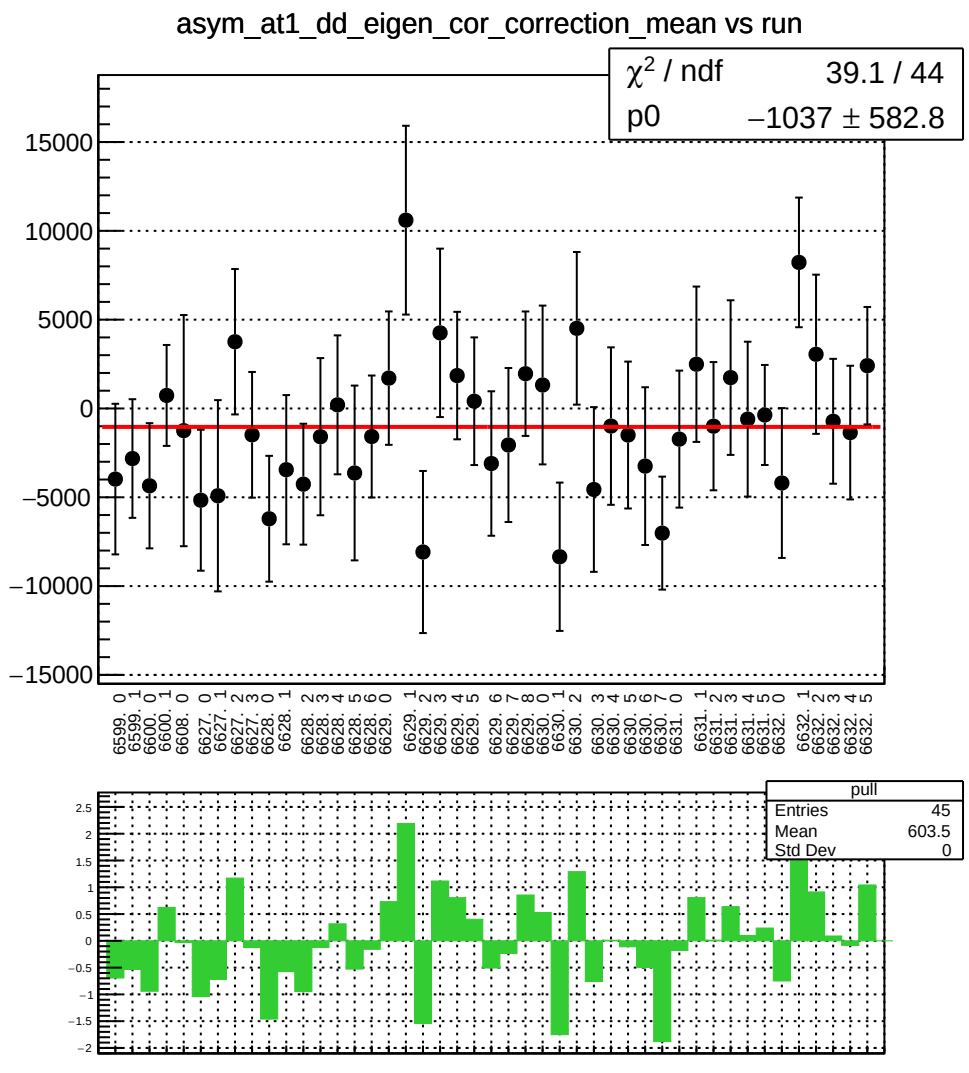
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 39.1 / 44
p0 −1037 ± 582.8
15000
10000
5000
0
−5000
−10000
−15000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
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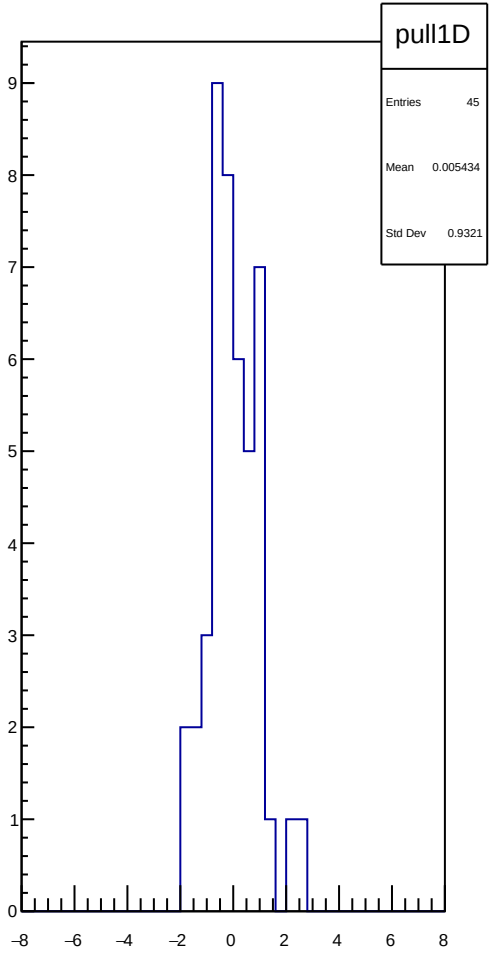
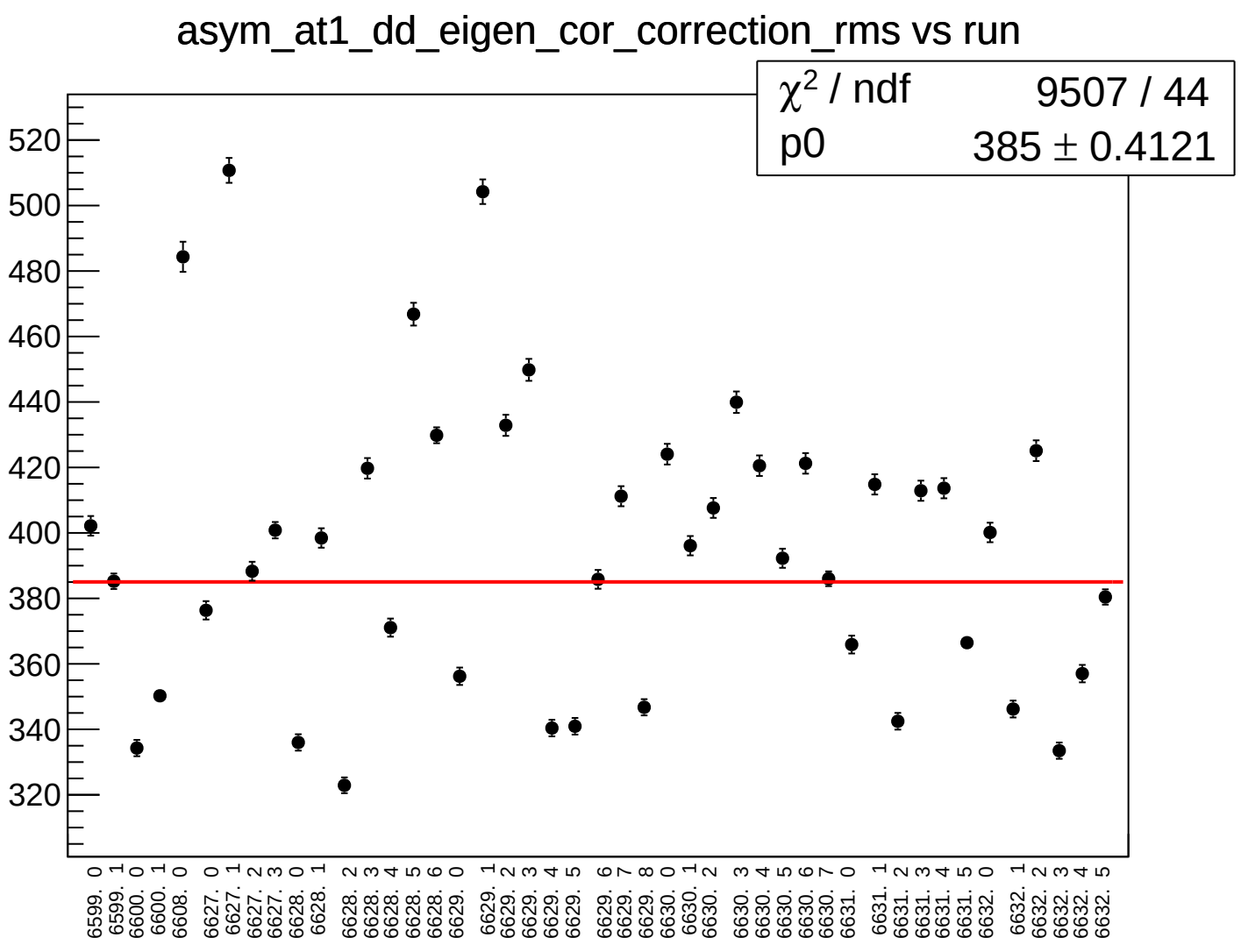
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 603.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.005434
Std Dev 0.9321
9
8
7
6
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 9507 / 44
p0 385 ± 0.4121
520
500
480
460
440
420
400
380
360
340
320
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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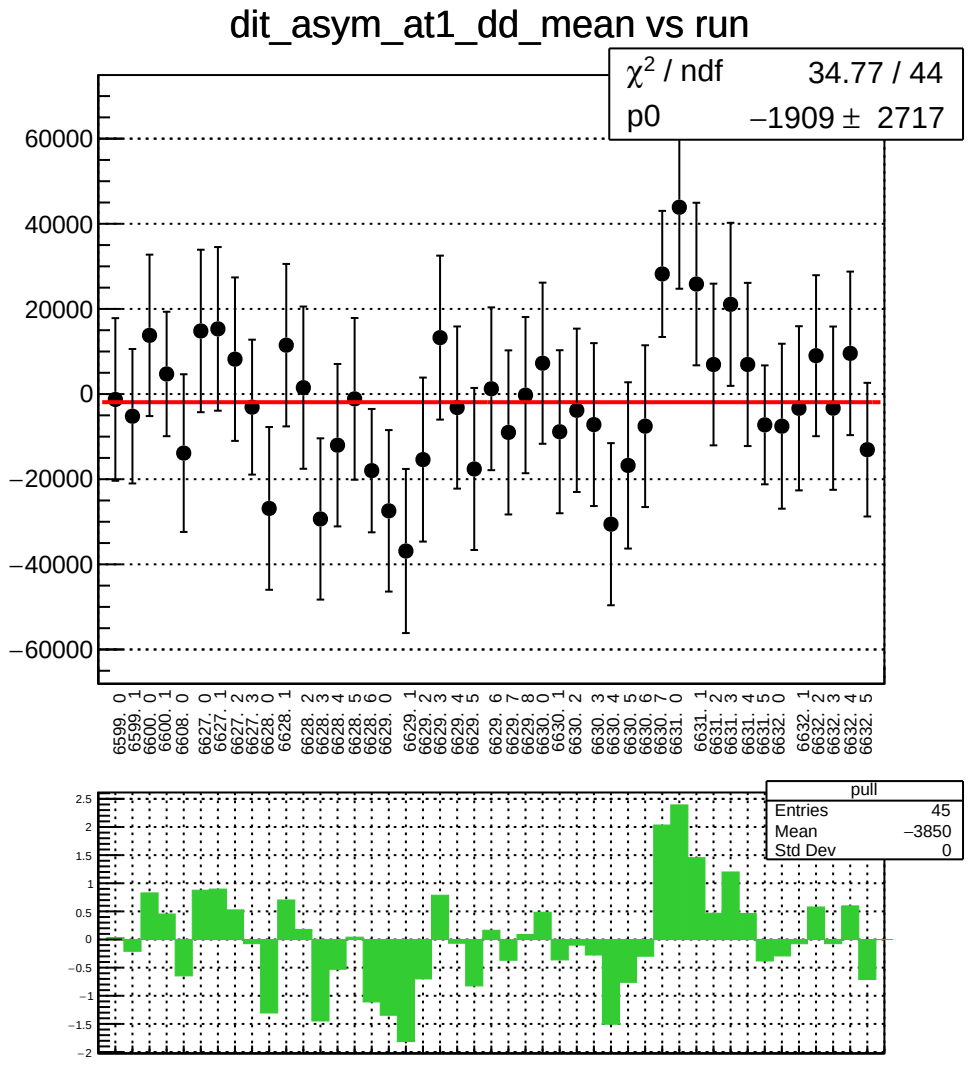
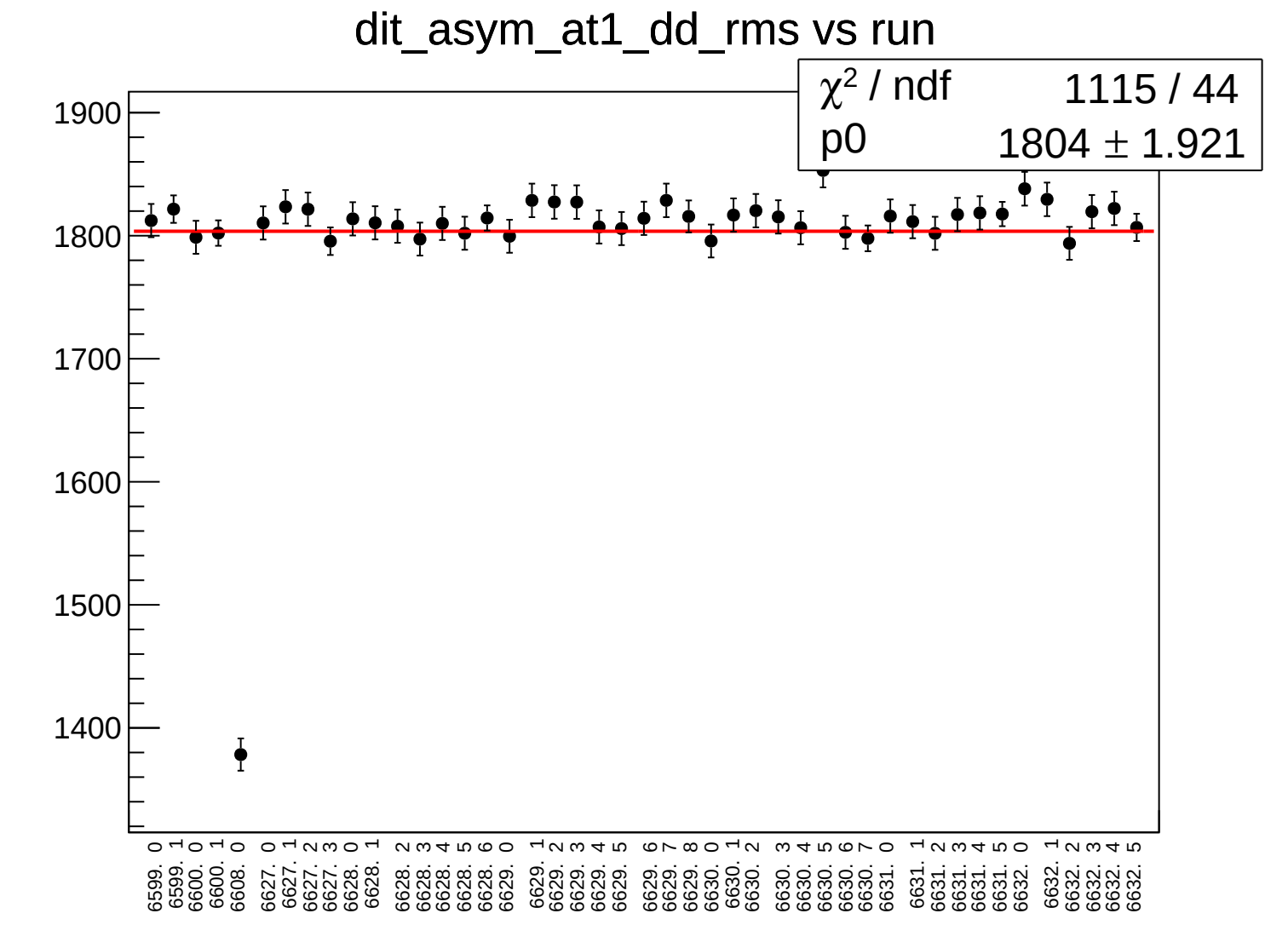
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


dit_asym_at1_dd_mean vs run
χ² / ndf 34.77 / 44
p0 −1909 ± 2717
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −3850
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.0004135
Std Dev 0.8791
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_at1_dd_rms vs run
χ² / ndf 1115 / 44
p0 1804 ± 1.921
1900
1800
1700
1600
1500
1400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
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6629. 0
6629. 1
6629. 2
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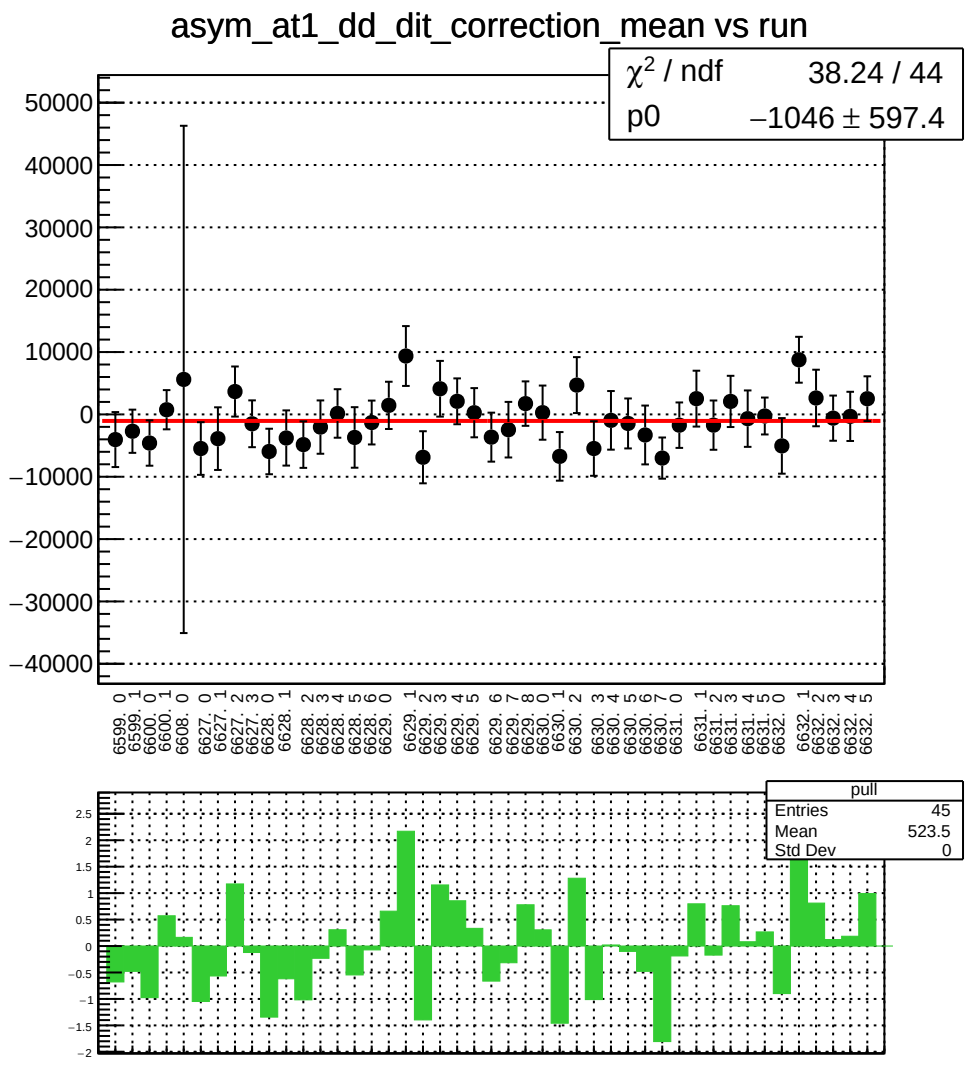
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_at1_dd_dit_correction_mean vs run
χ² / ndf 38.24 / 44
p0 −1046 ± 597.4
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
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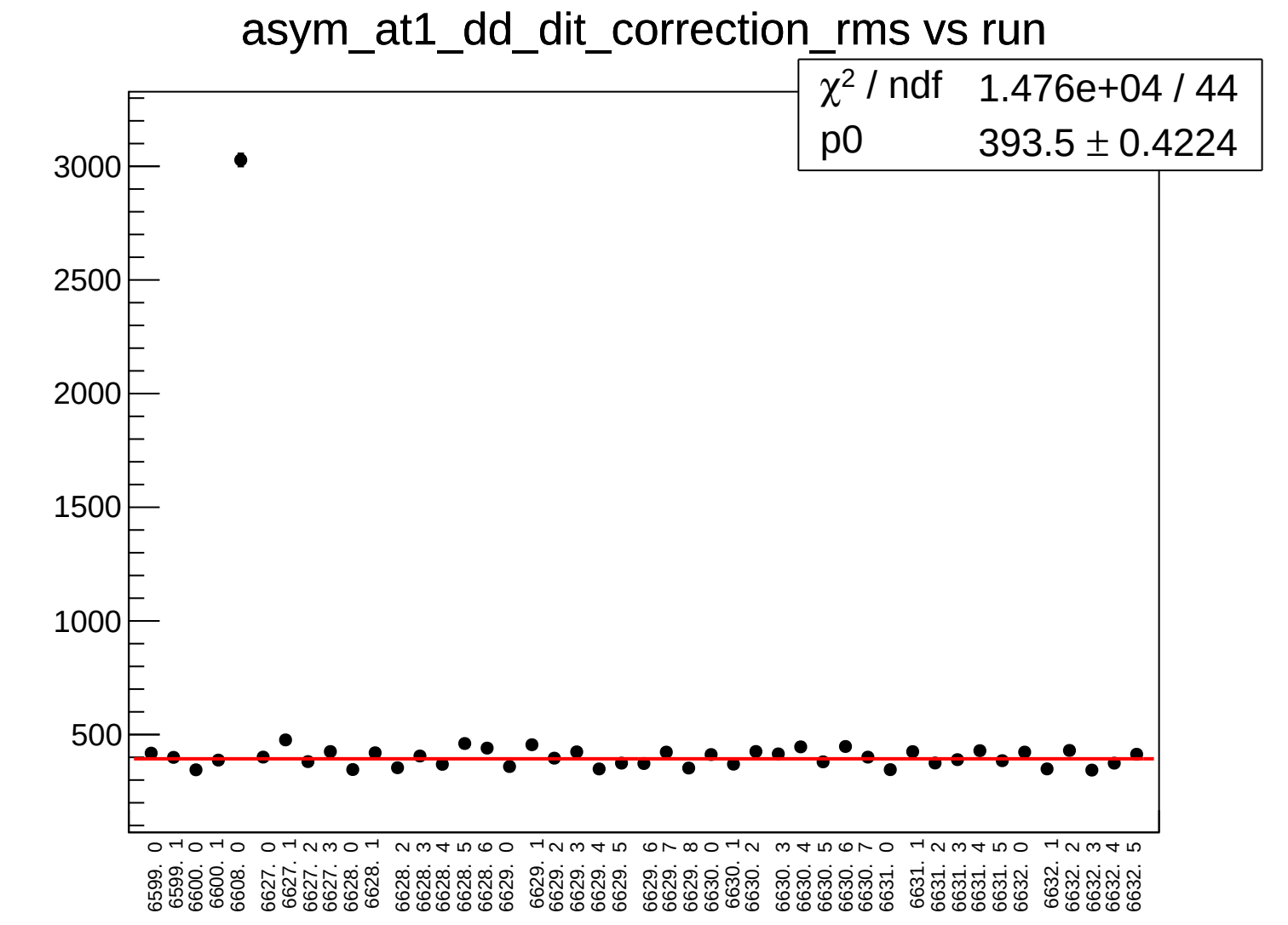
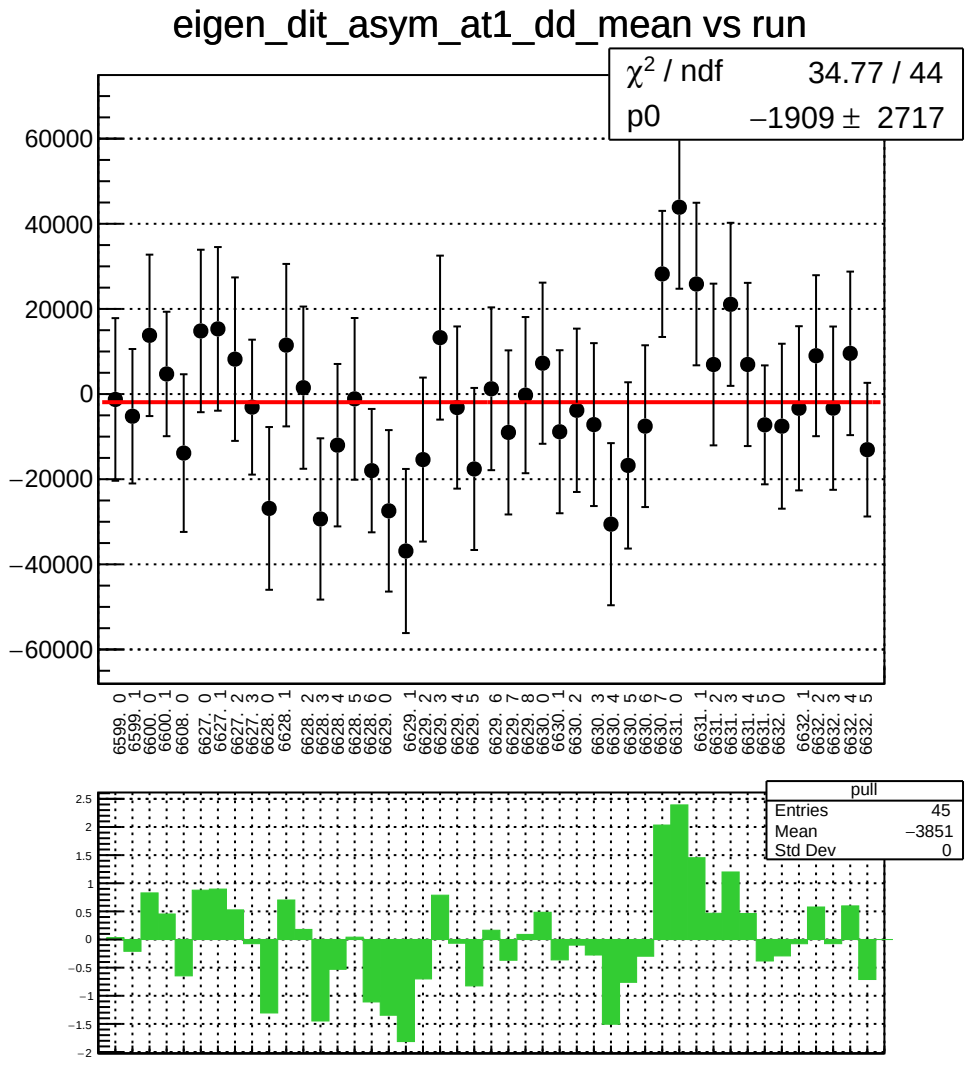
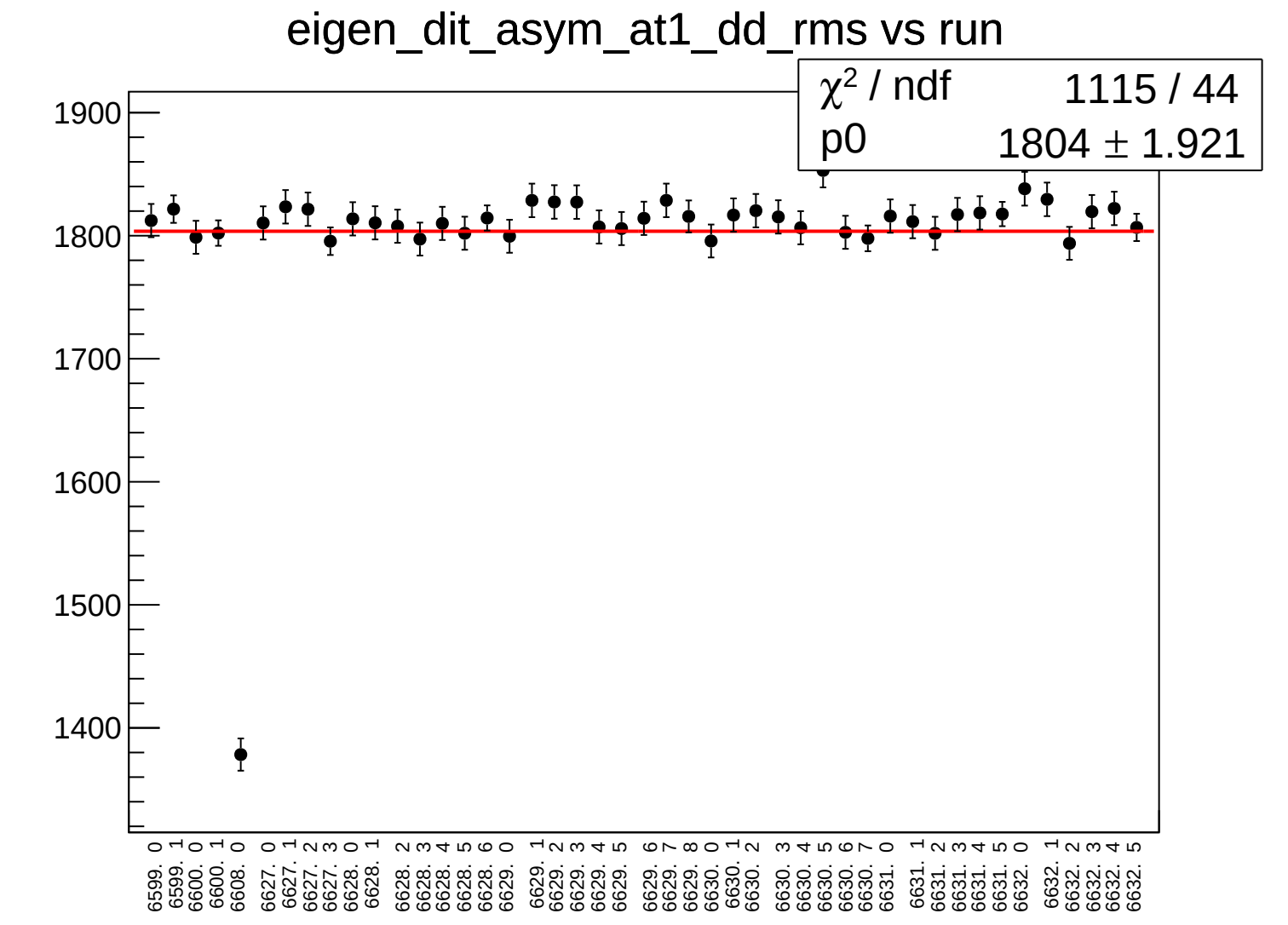
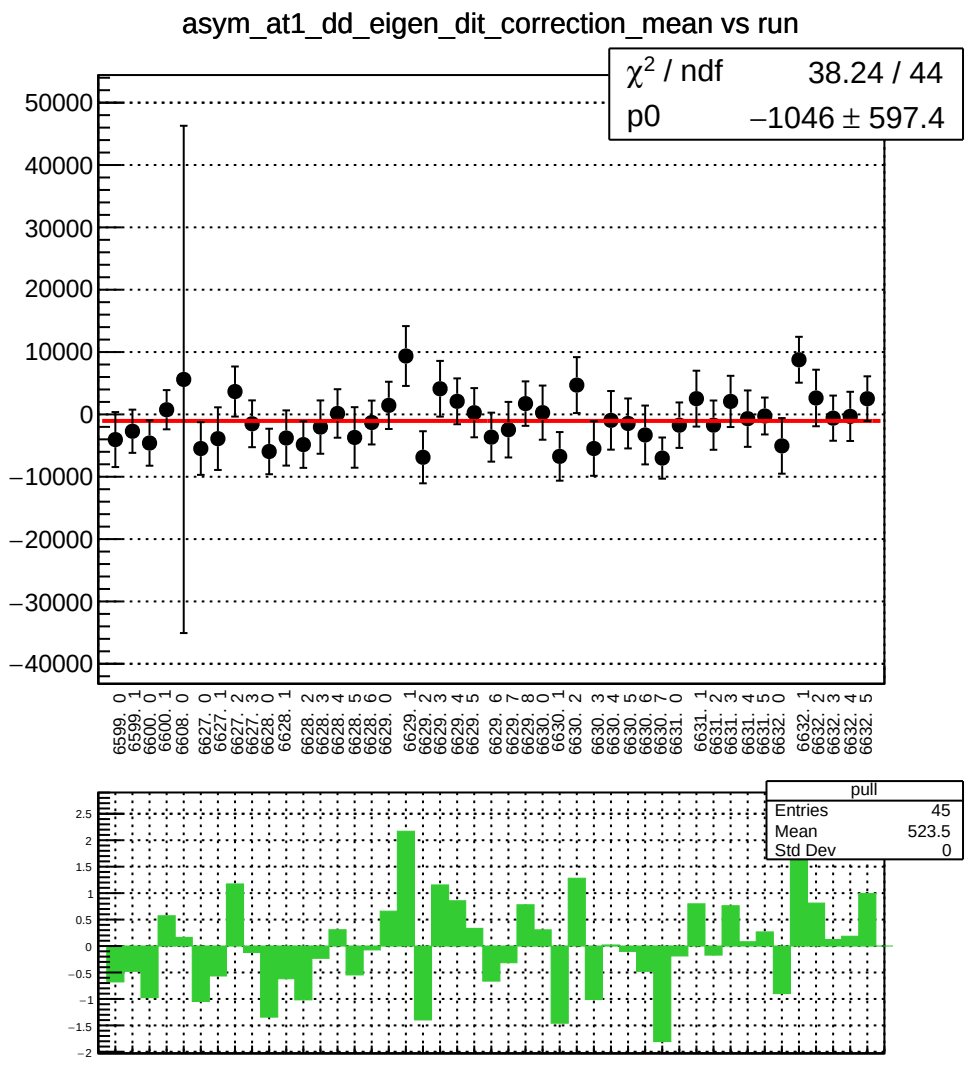
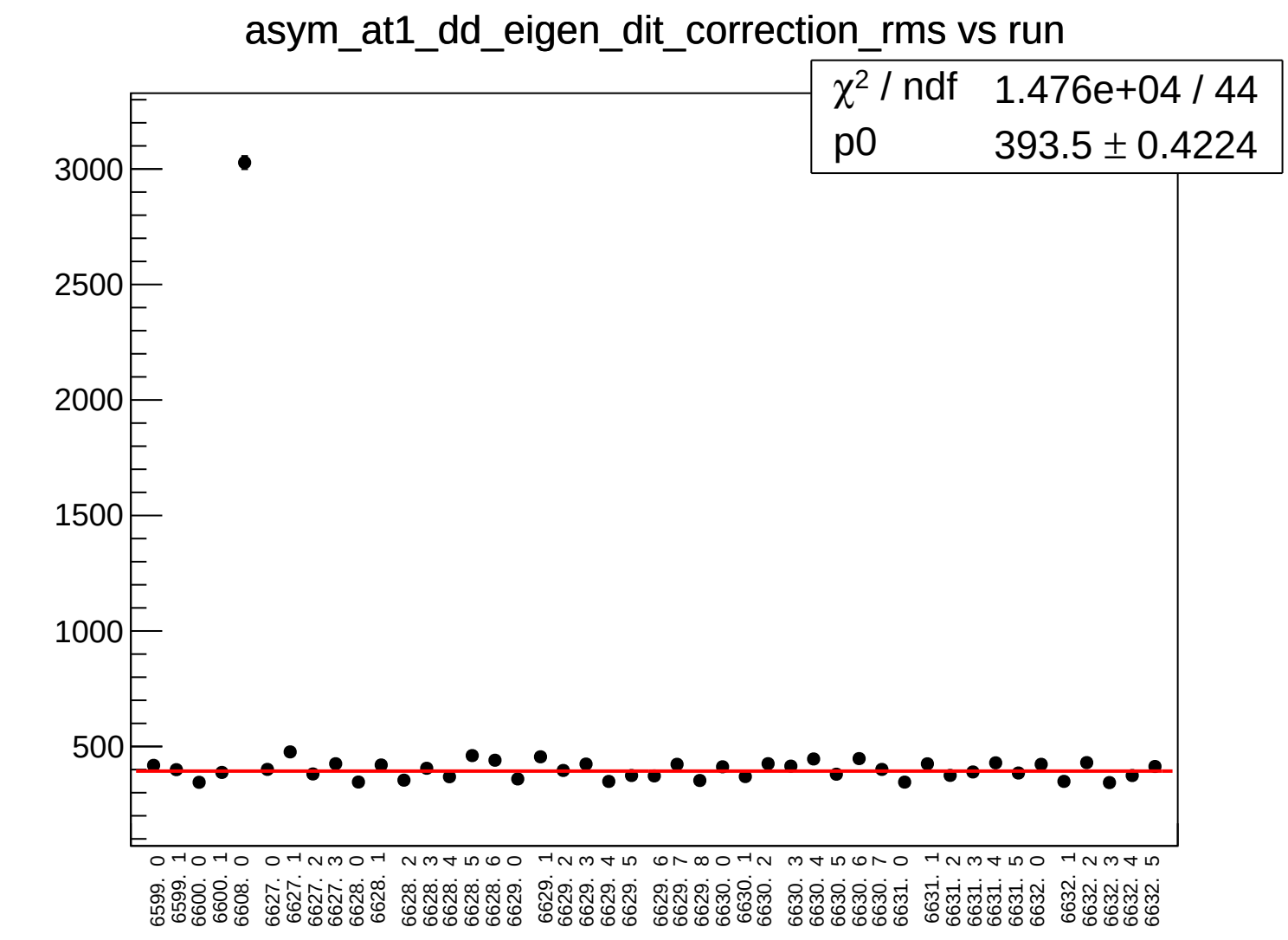
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 523.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.006154
Std Dev 0.9218
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

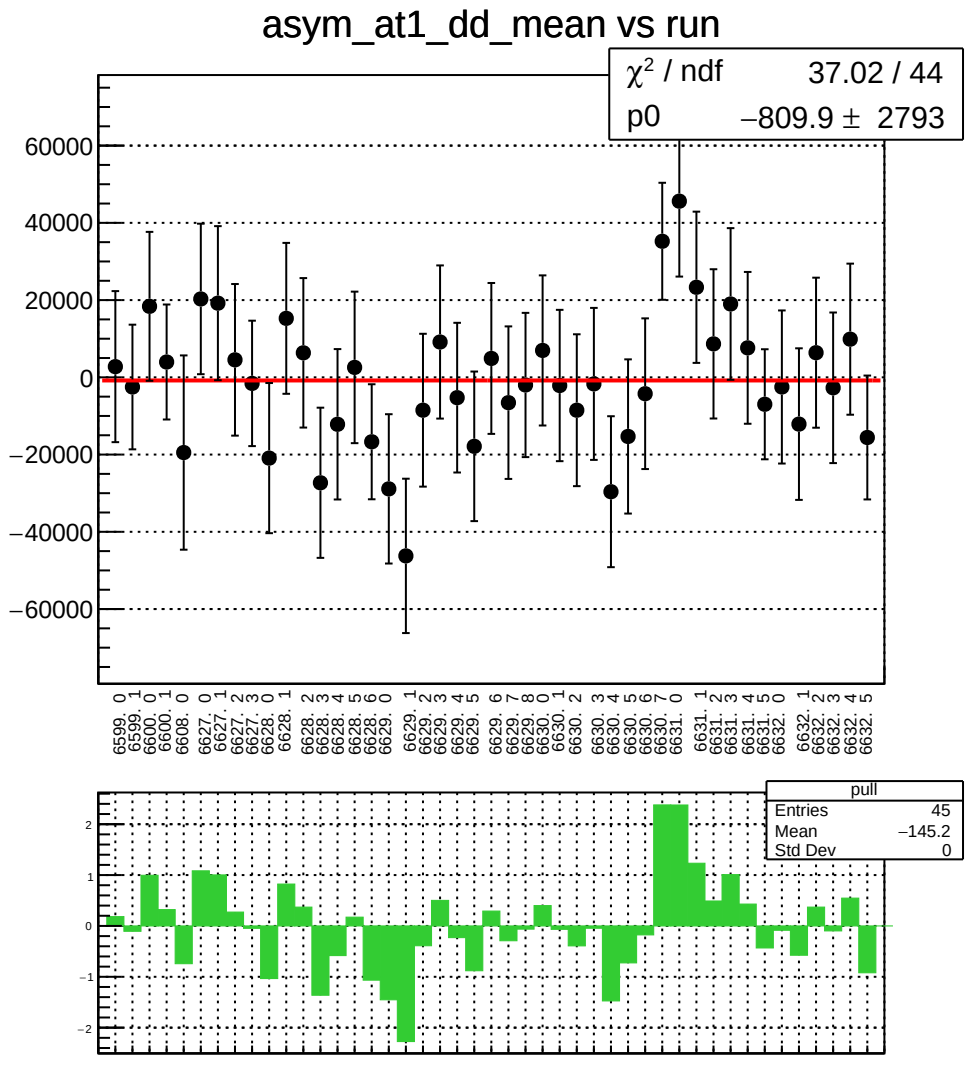

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 1.476e+04 / 44
p0 393.5 ± 0.4224
3000
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

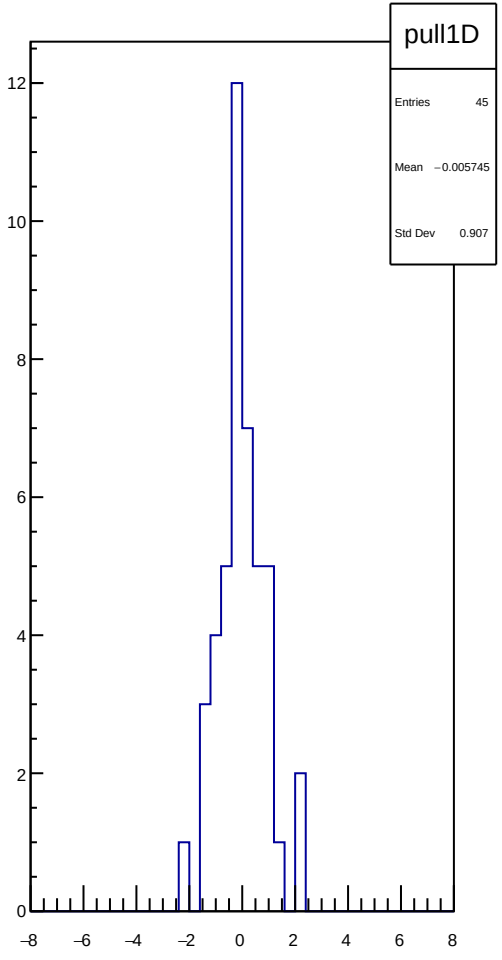

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 34.77 / 44
p0 −1909 ± 2717
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −3851
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.0004135
Std Dev 0.8791
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

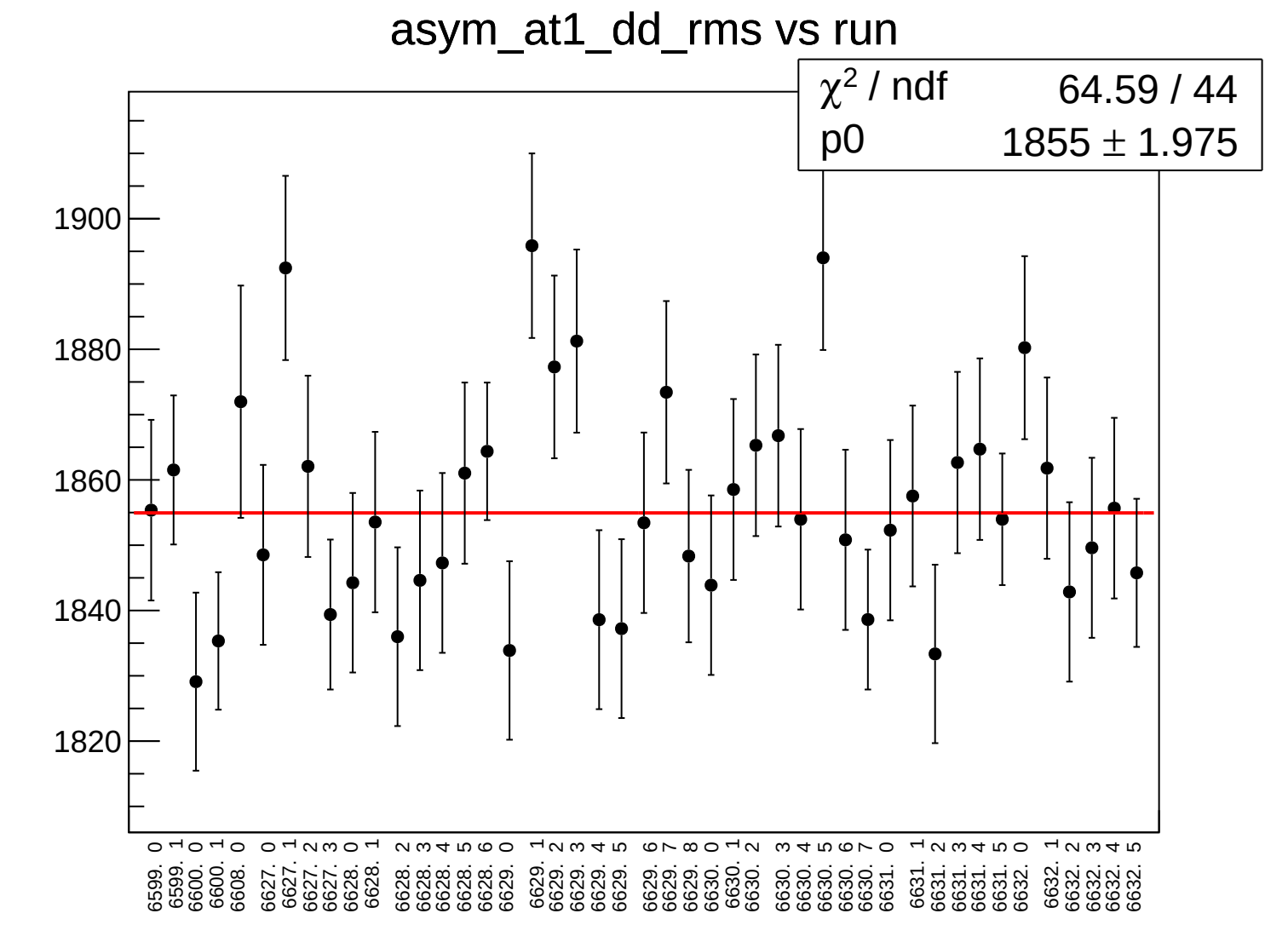

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 1115 / 44
p0 1804 ± 1.921
1900
1800
1700
1600
1500
1400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

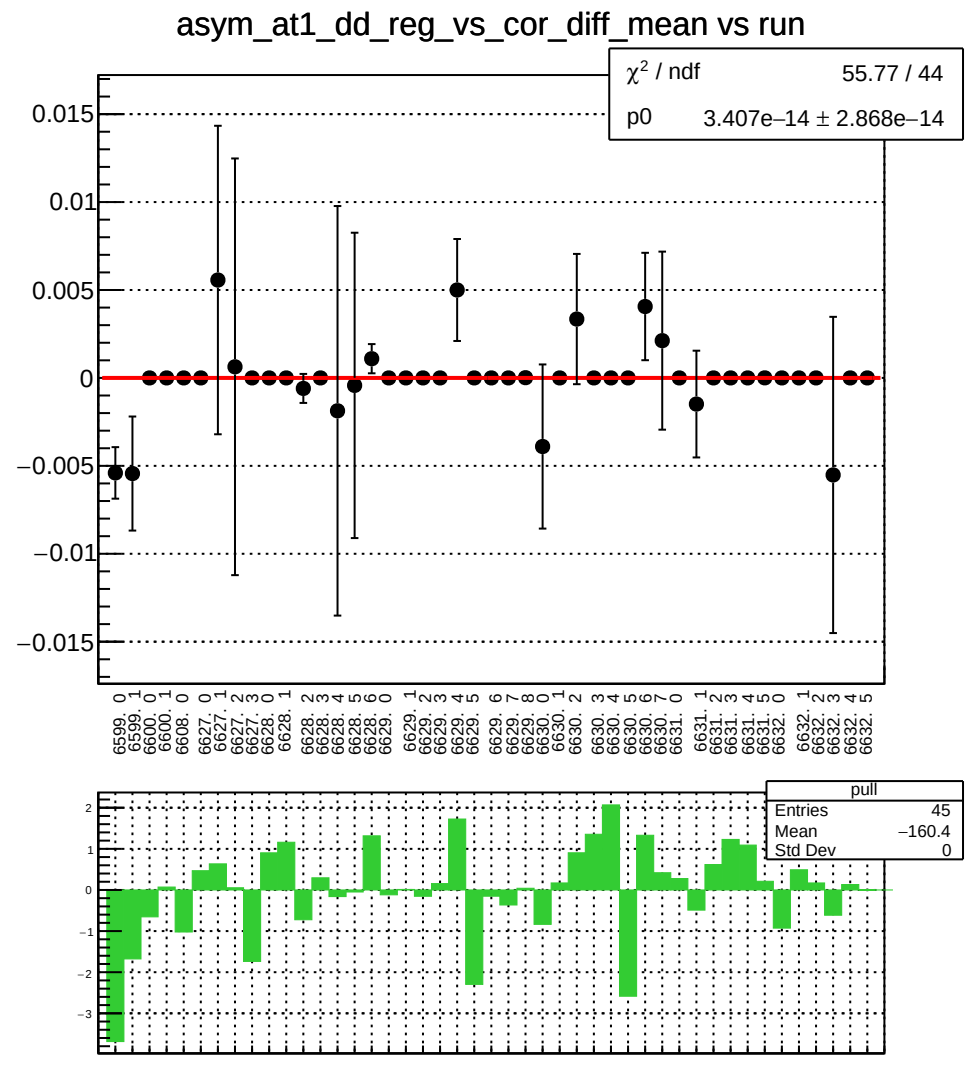

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 38.24 / 44
p0 −1046 ± 597.4
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 523.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.006155
Std Dev 0.9218
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

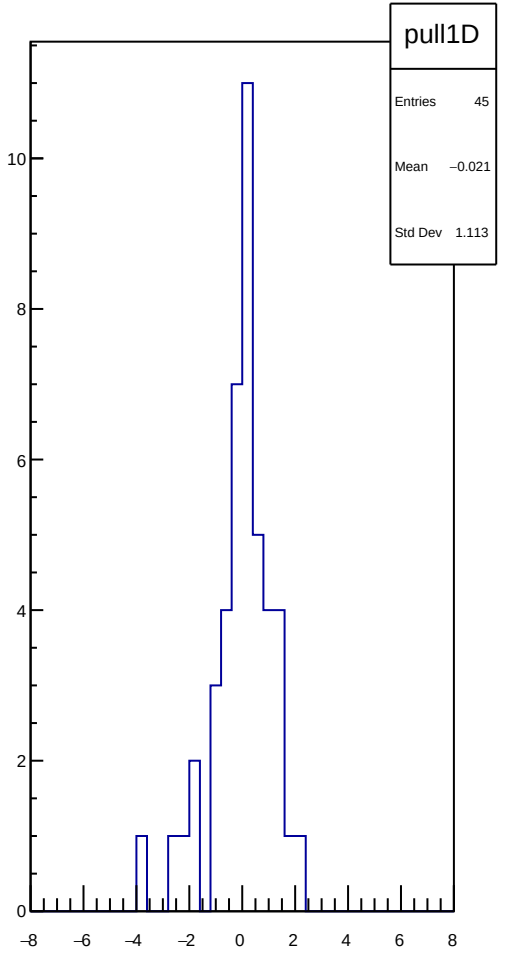

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.476e+04 / 44
p0 393.5 ± 0.4224
3000
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

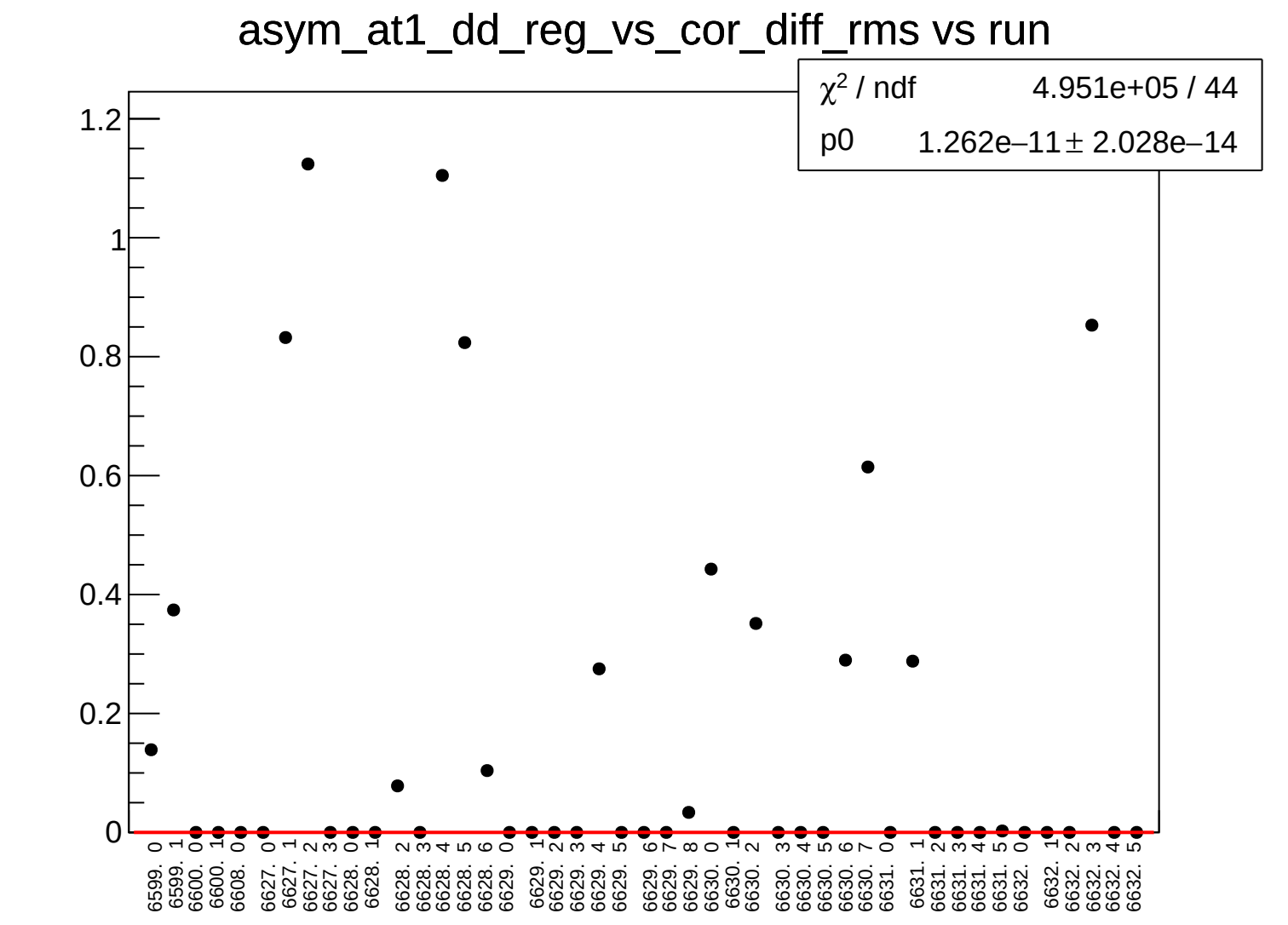

asym_at1_dd_mean vs run
χ² / ndf 37.02 / 44
p0 −809.9 ± 2793
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −145.2
Std Dev 0
2
1
0
−1
−2

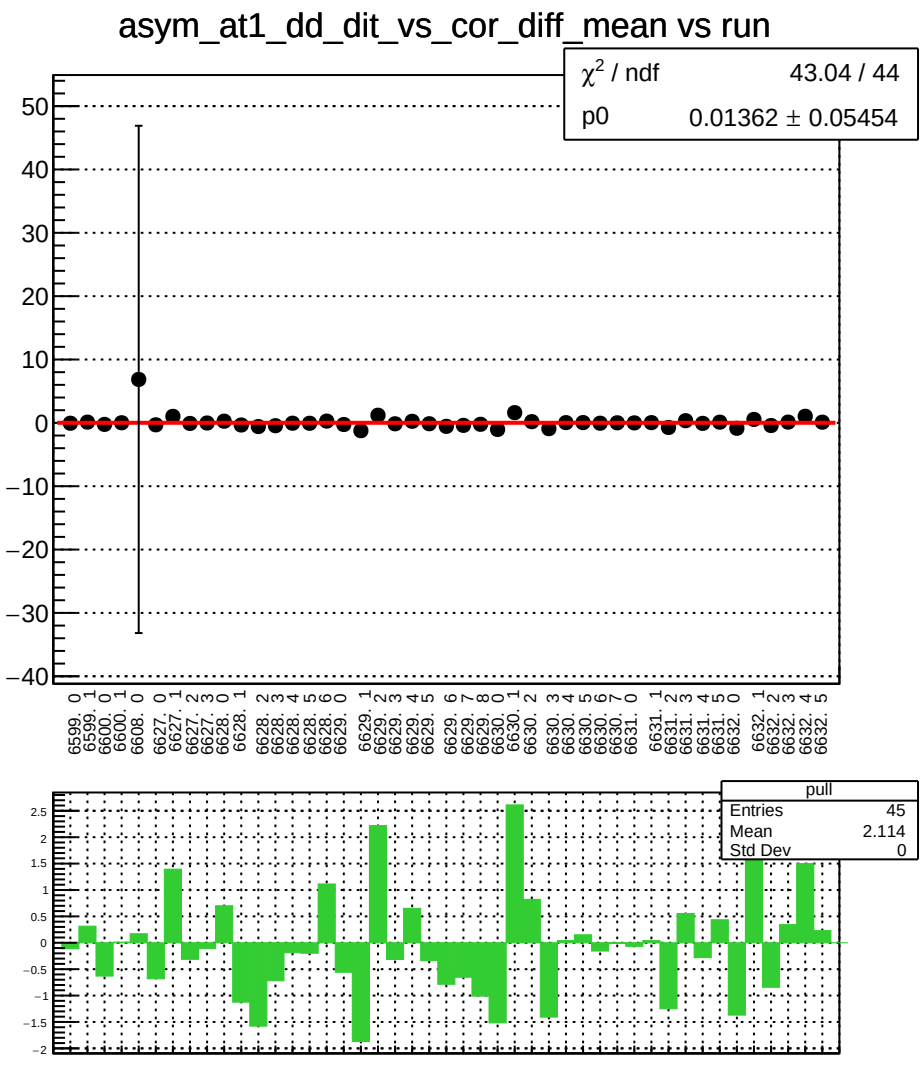

pull1D
Entries 45
Mean −0.005745
Std Dev 0.907
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

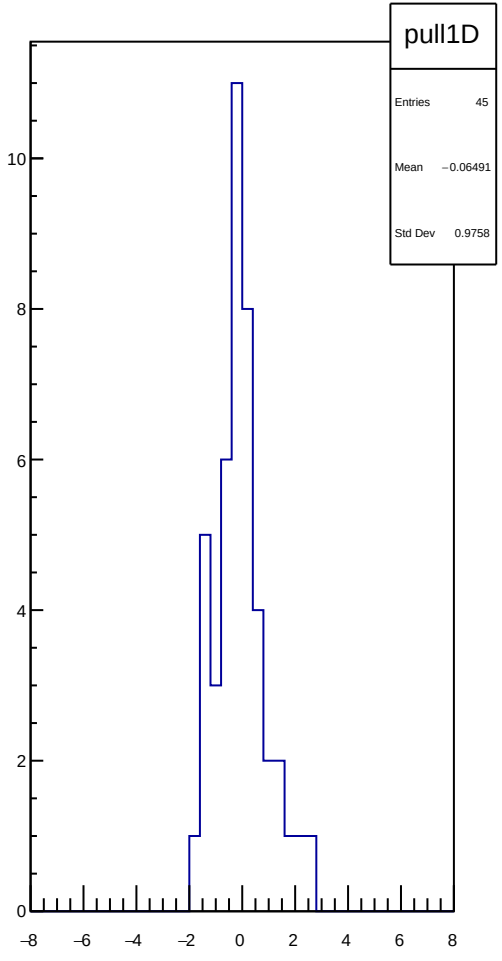

asym_at1_dd_rms vs run
χ² / ndf 64.59 / 44
p0 1855 ± 1.975
1900
1880
1860
1840
1820
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

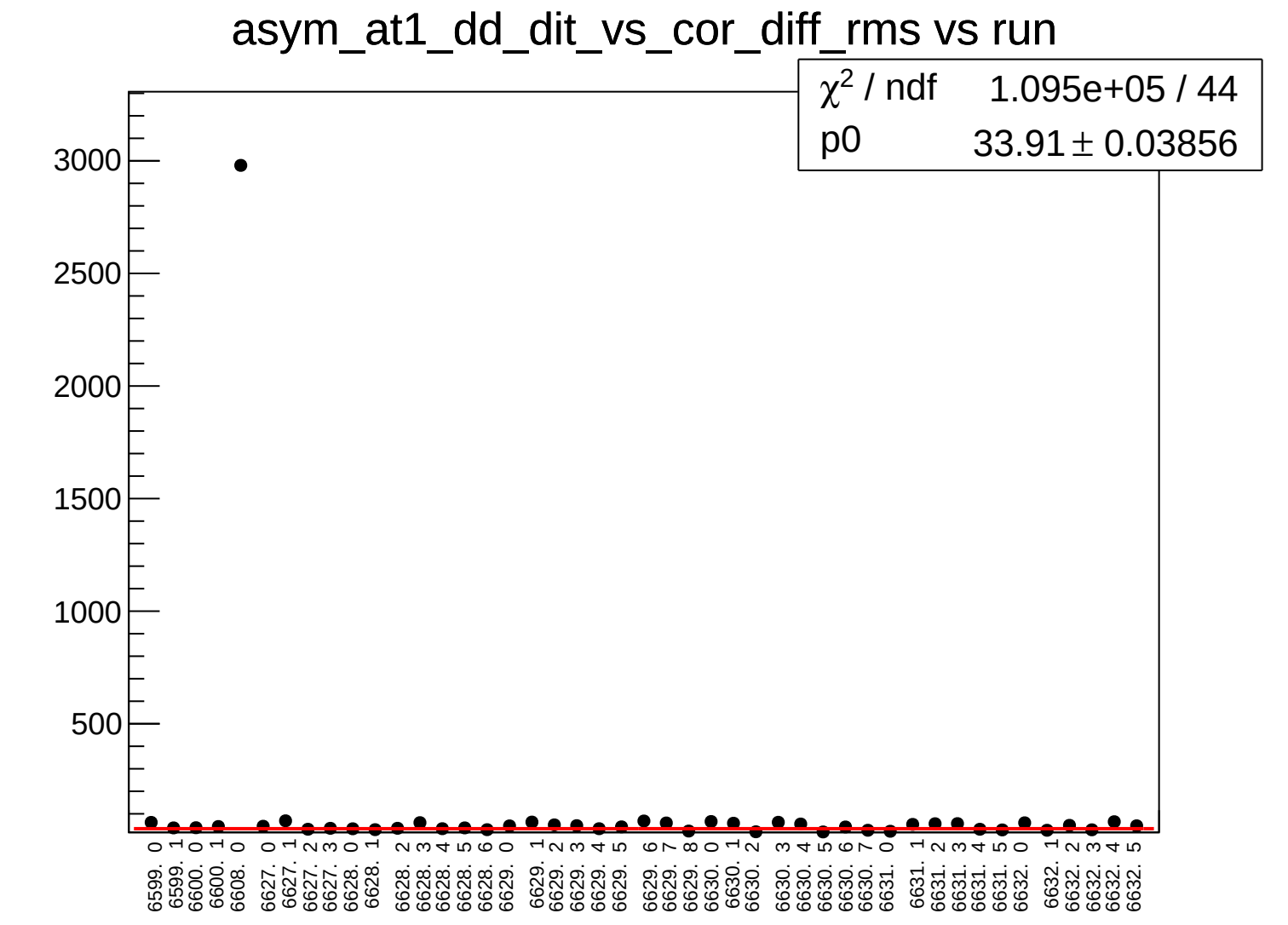

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 55.77 / 44
p0 3.407e−14 ± 2.868e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −160.4
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.021
Std Dev 1.113
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 4.951e+05 / 44
p0 1.262e−11 ± 2.028e−14
1.2
1
0.8
0.6
0.4
0.2
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 43.04 / 44
p0 0.01362 ± 0.05454
pull
Entries 45
Mean 2.114
Std Dev 0


pull1D
Entries 45
Mean −0.06491
Std Dev 0.9758


asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.095e+05 / 44
p0 33.91 ± 0.03856
3000
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
6632. 0
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6632. 2
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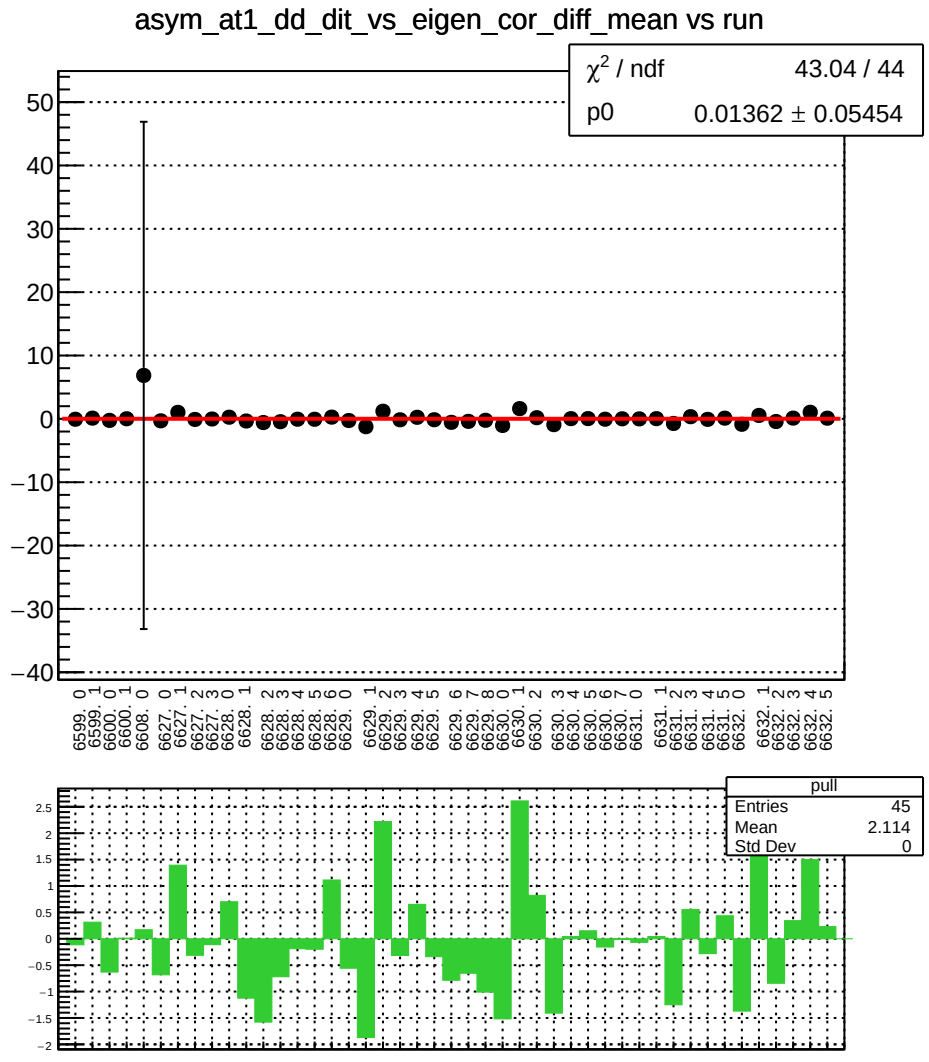
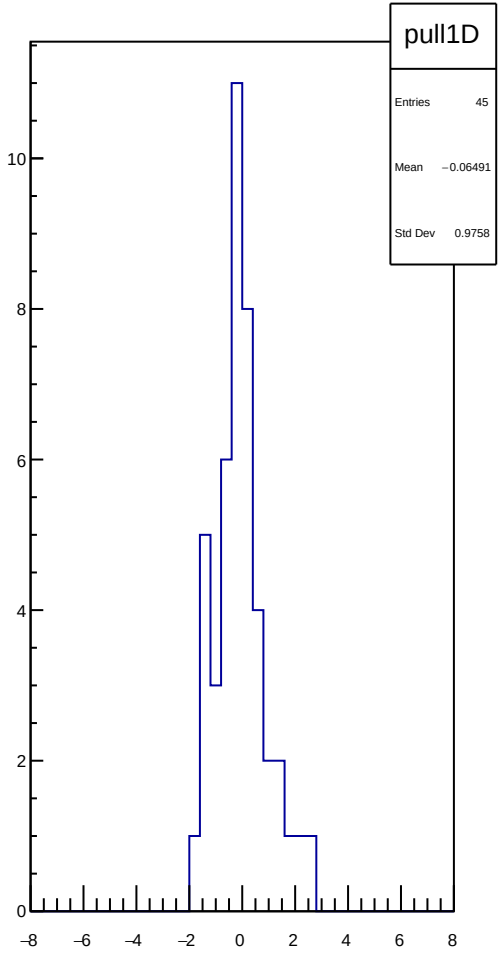
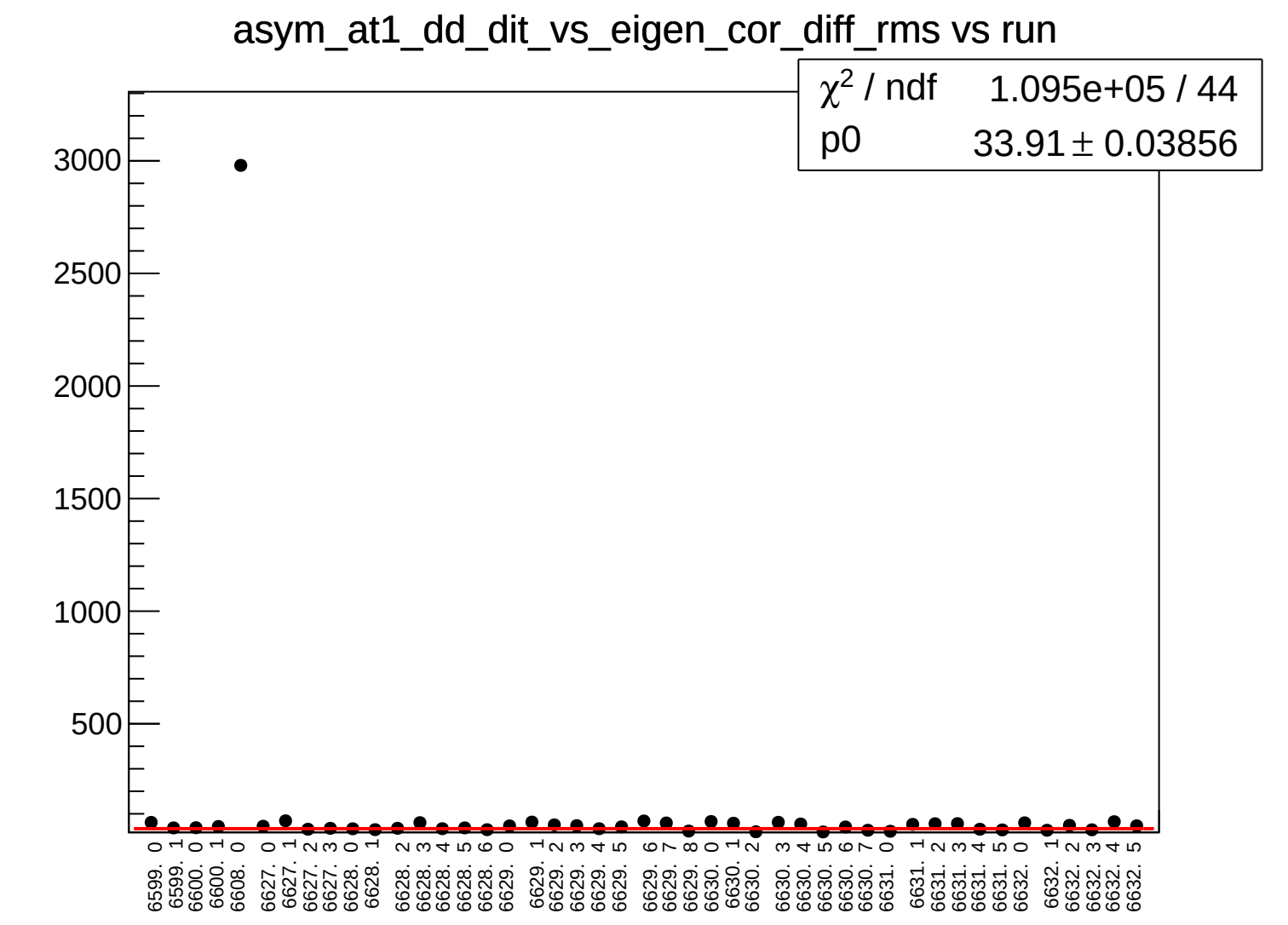
6632. 4
6632. 5


asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 43.04 / 44
p0 0.01362 ± 0.05454
pull
Entries 45
Mean 2.114
Std Dev 0


pull1D
Entries 45
Mean −0.06491
Std Dev 0.9758


asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.095e+05 / 44
p0 33.91 ± 0.03856
3000
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
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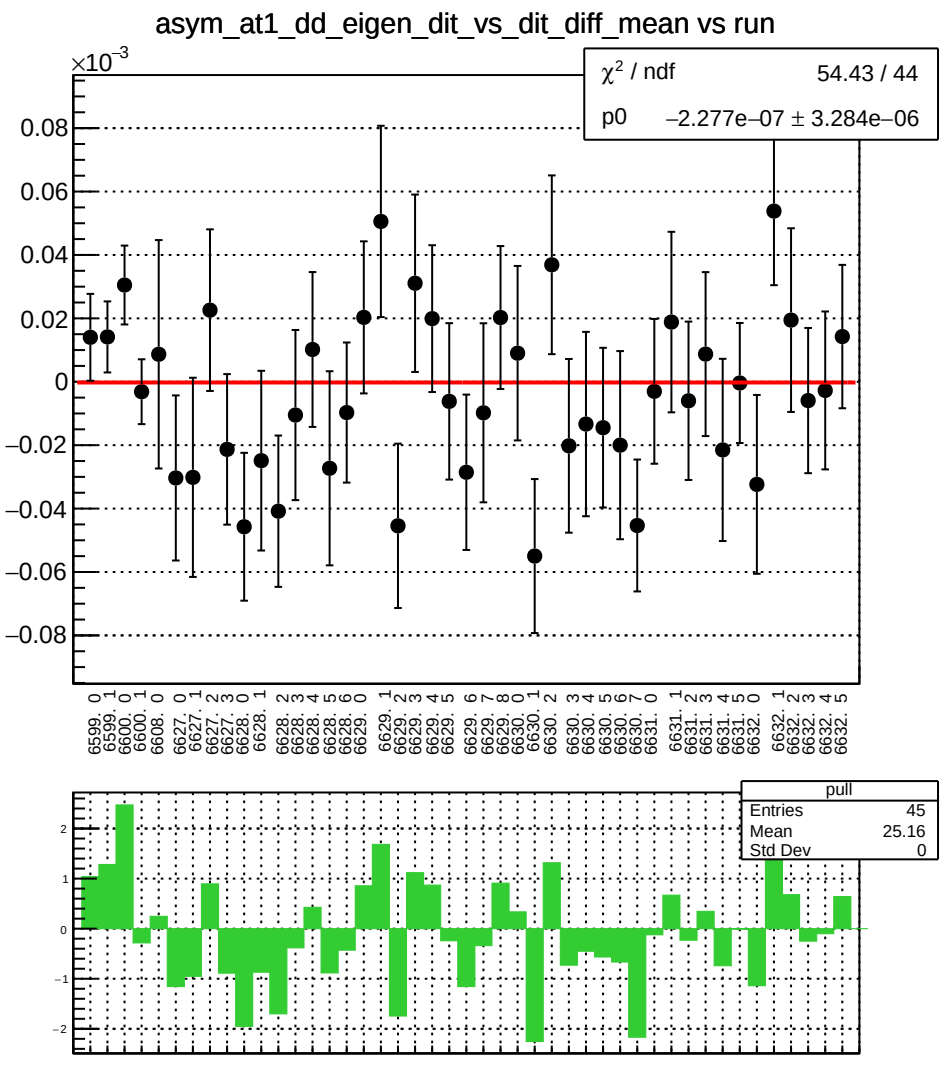
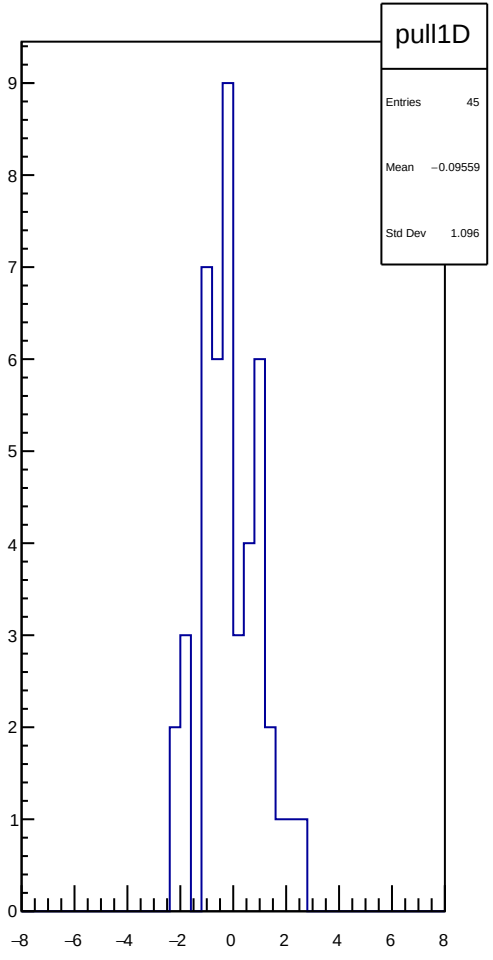
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 54.43 / 44
p0 −2.277e−07 ± 3.284e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 25.16
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.09559
Std Dev 1.096
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
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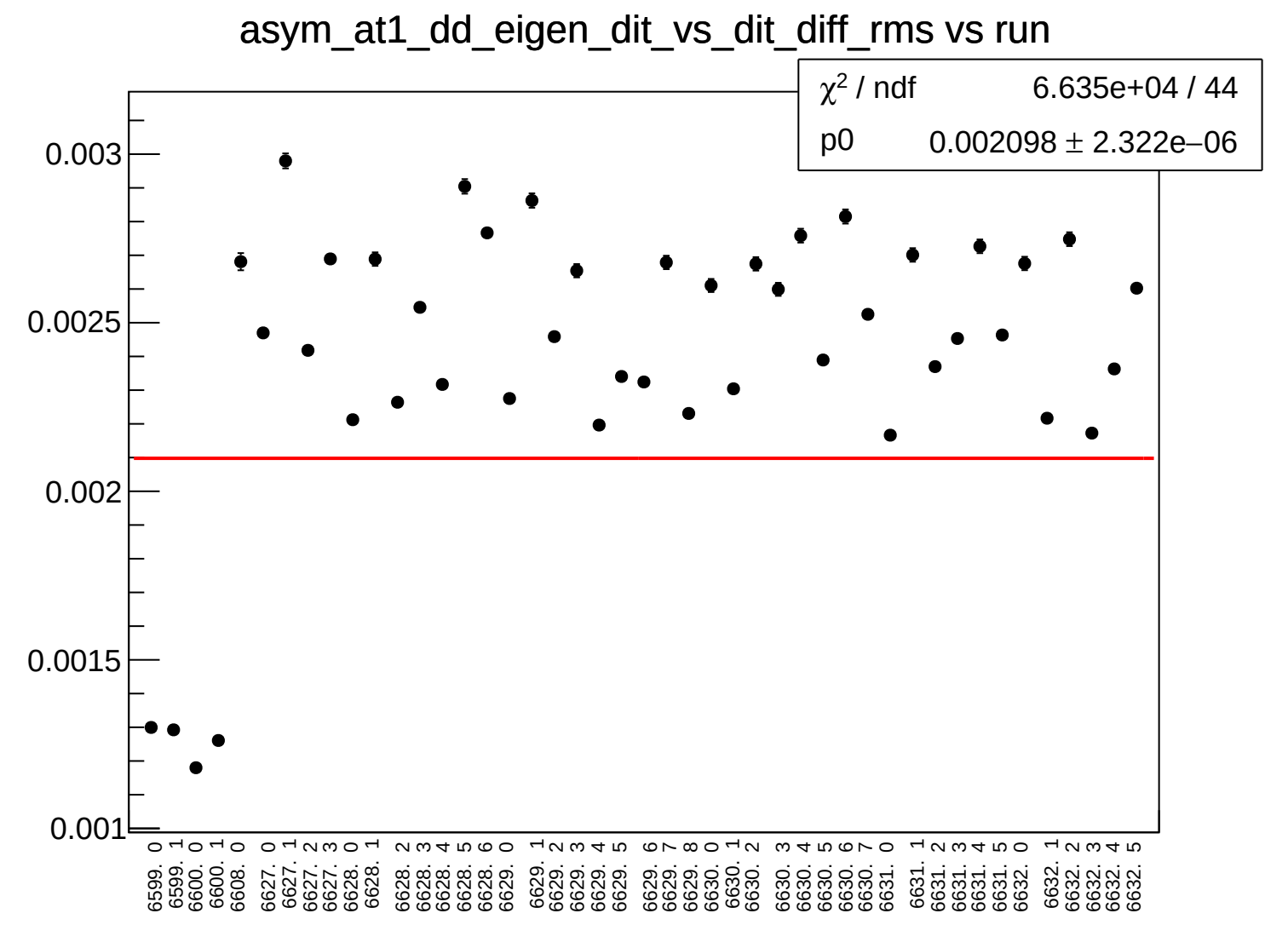
0
2
4
6
8


asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.635e+04 / 44
p0 0.002098 ± 2.322e−06
0.003
0.0025
0.002
0.0015
0.001
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
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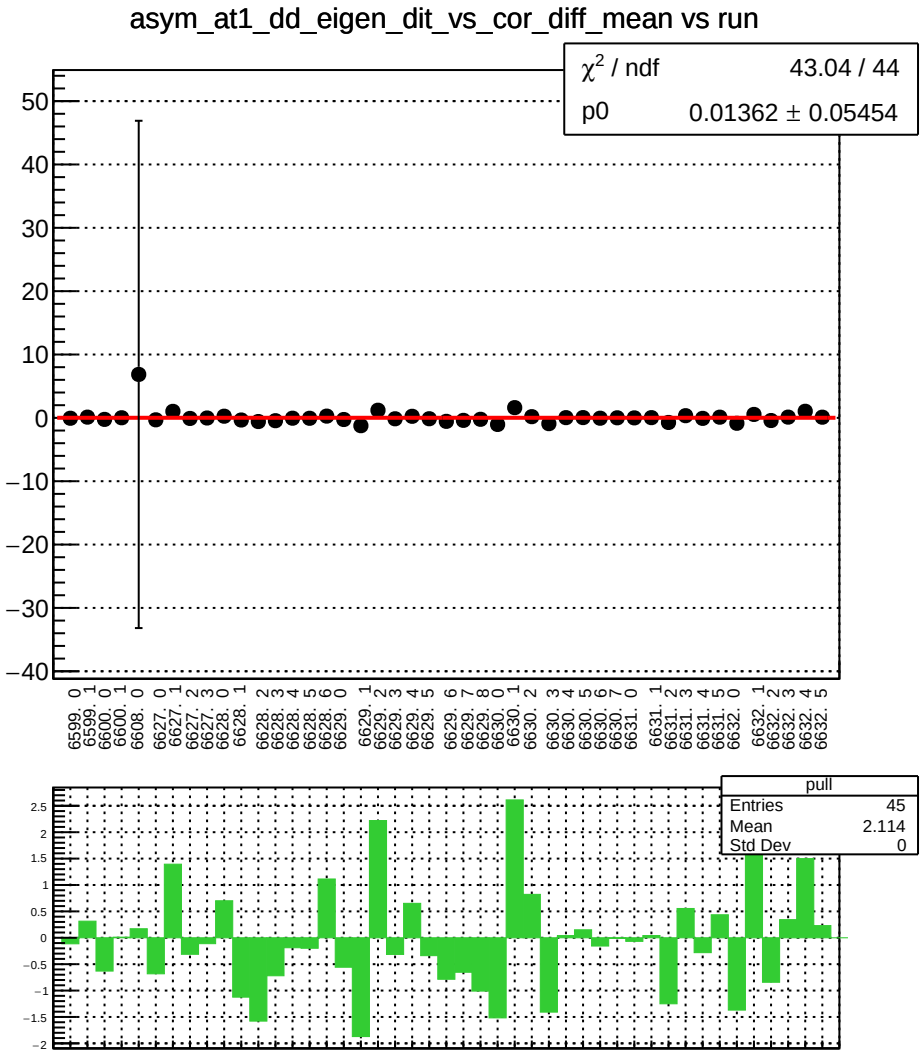
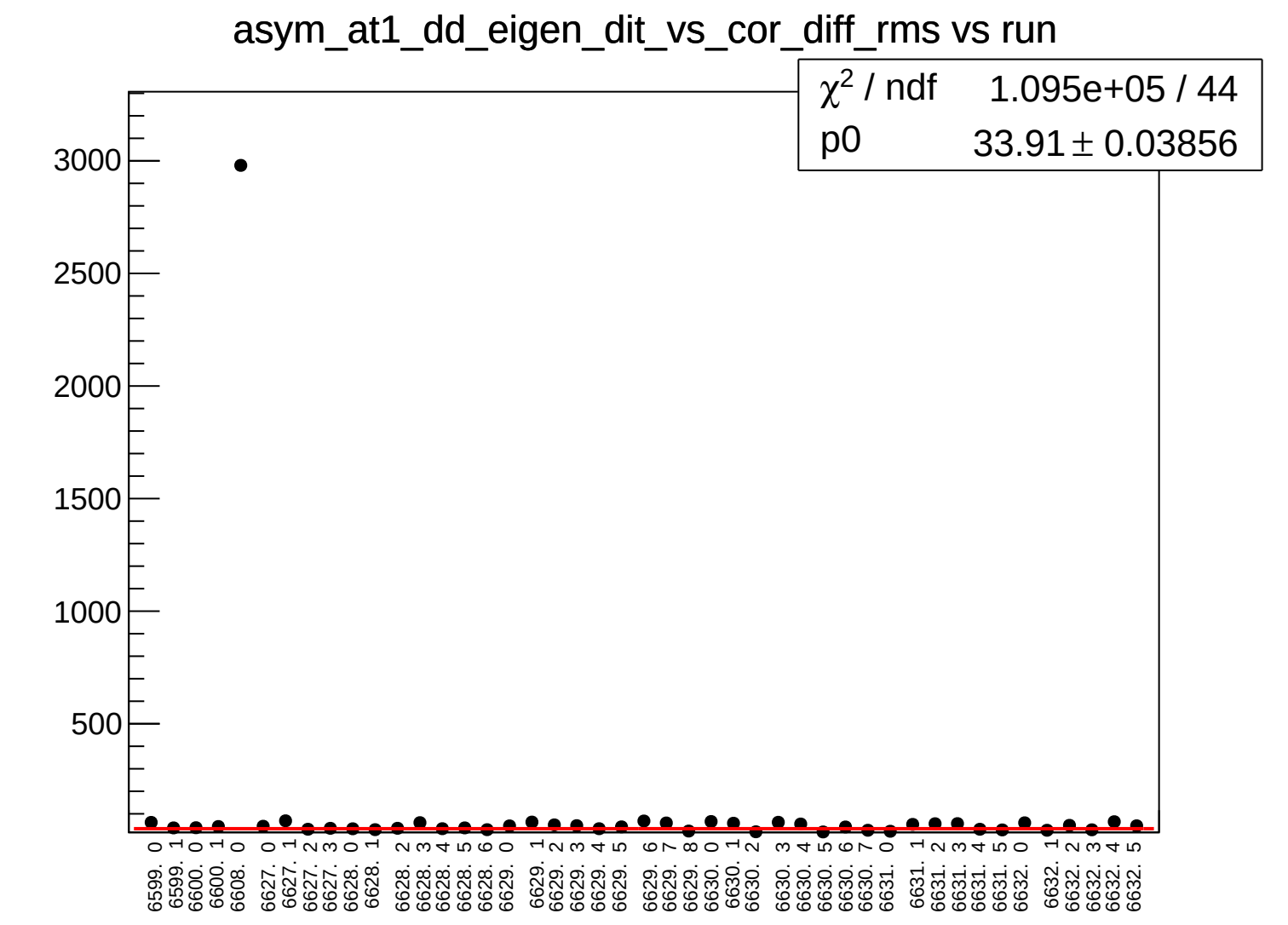
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 43.04 / 44
p0 0.01362 ± 0.05454
pull
Entries 45
Mean 2.114
Std Dev 0
pull1D
Entries 45
Mean −0.06491
Std Dev 0.9758


asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.095e+05 / 44
p0 33.91 ± 0.03856
3000
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
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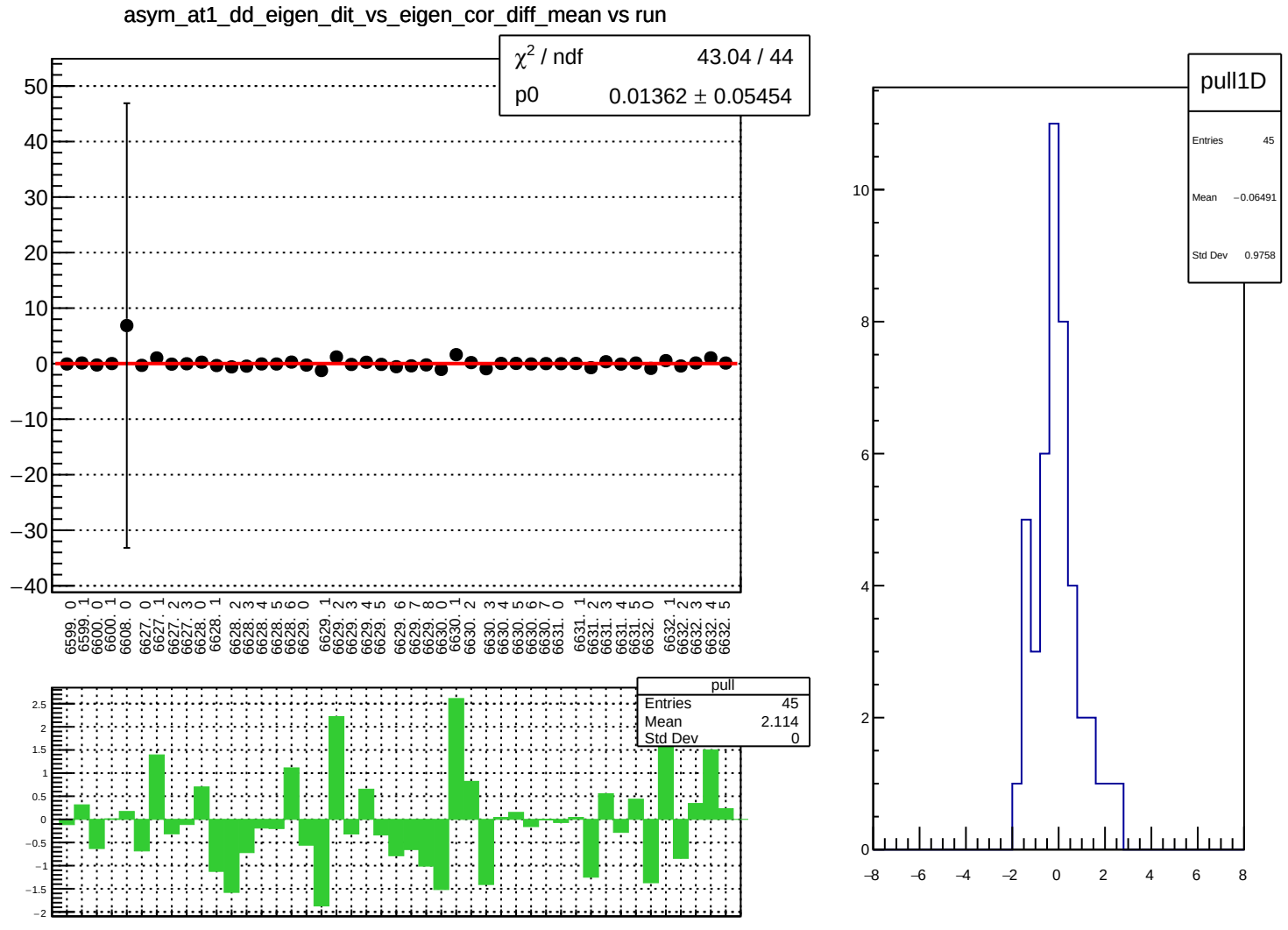
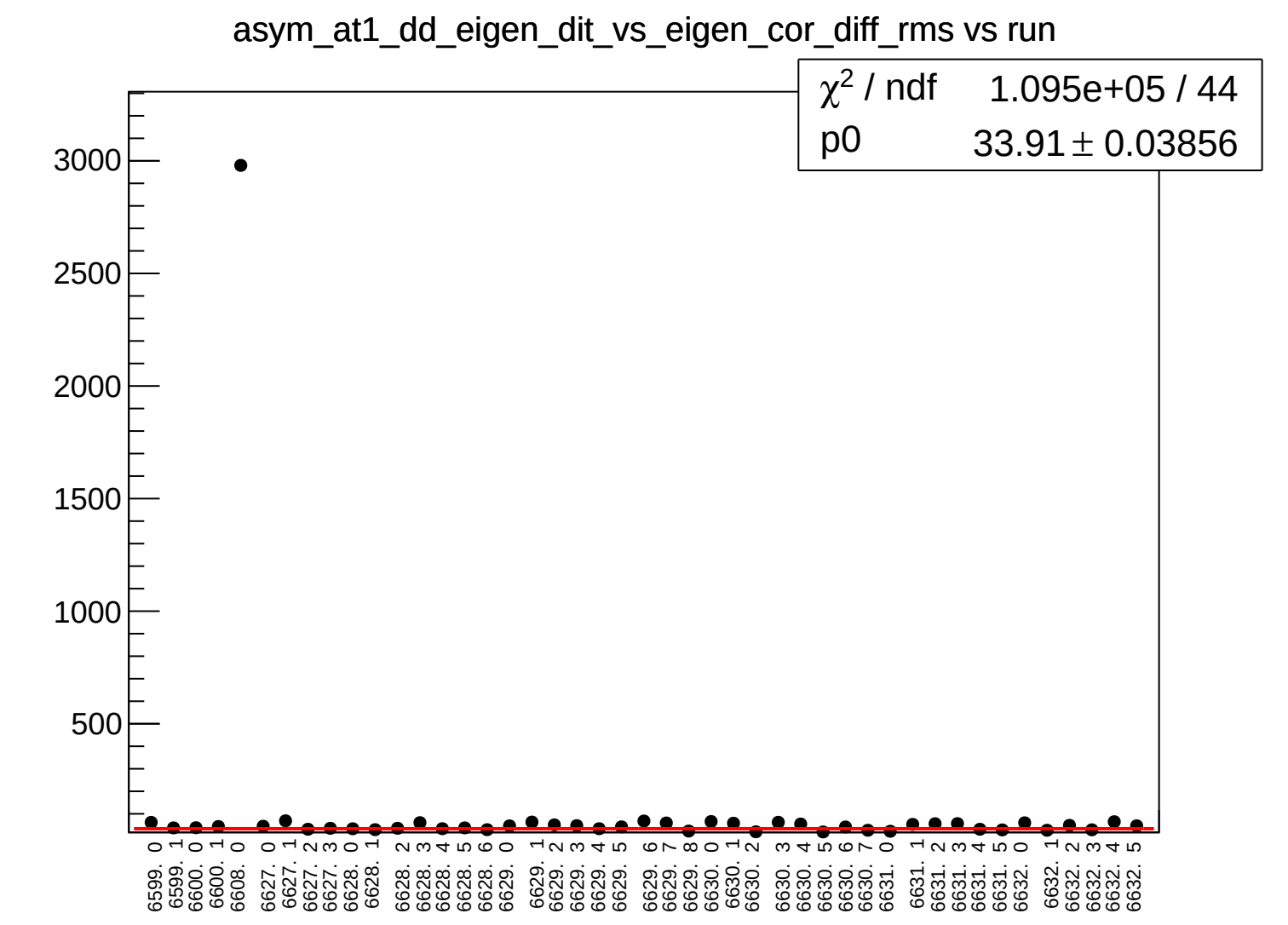
6632. 4
6632. 5


asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 43.04 / 44
p0 0.01362 ± 0.05454
pull
Entries 45
Mean 2.114
Std Dev 0
pull1D
Entries 45
Mean −0.06491
Std Dev 0.9758


asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.095e+05 / 44
p0 33.91 ± 0.03856
3000
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
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6632. 2
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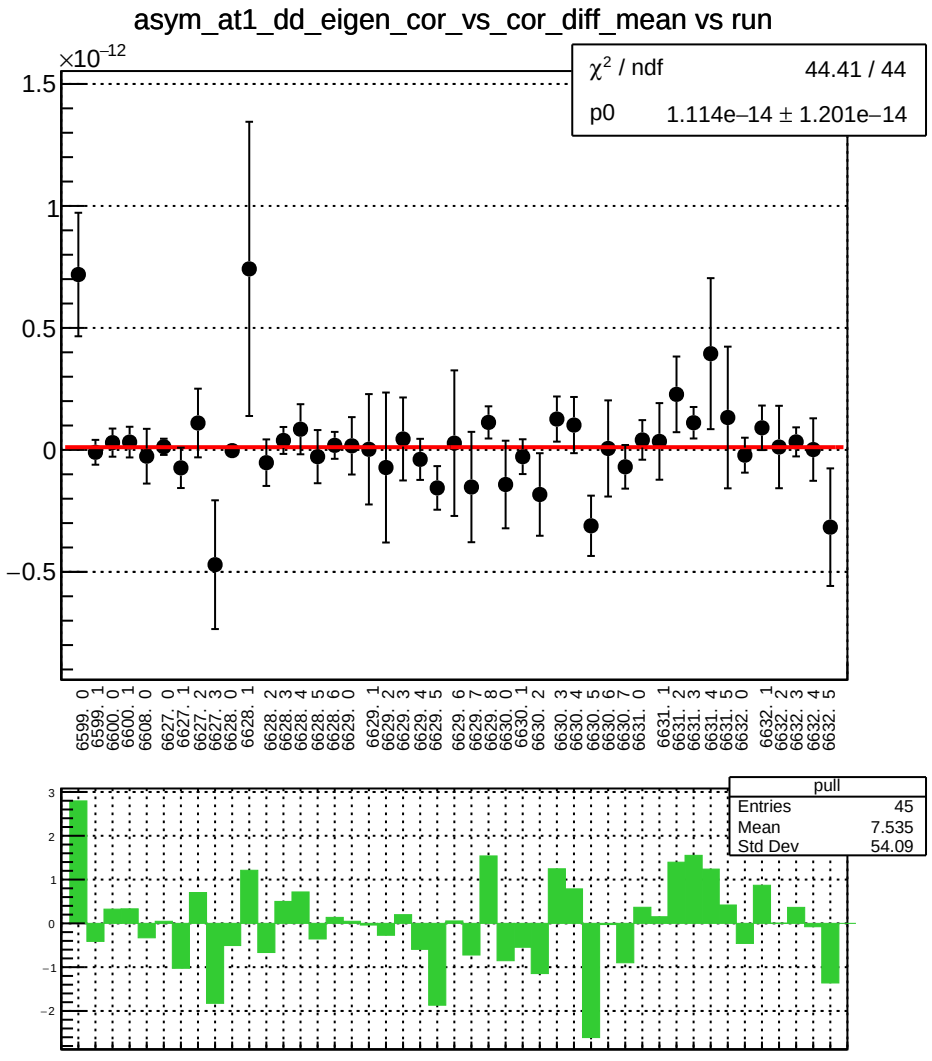
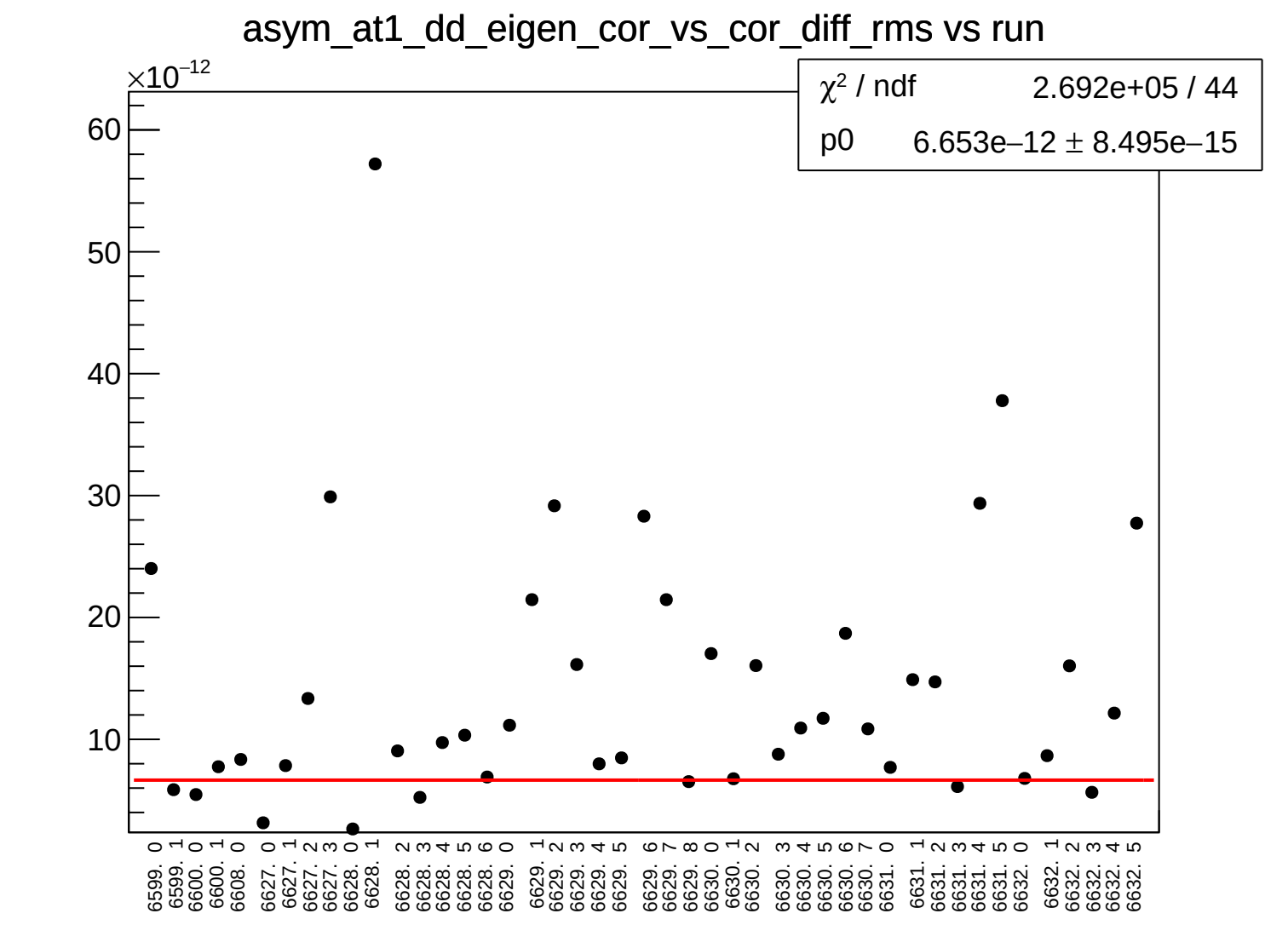
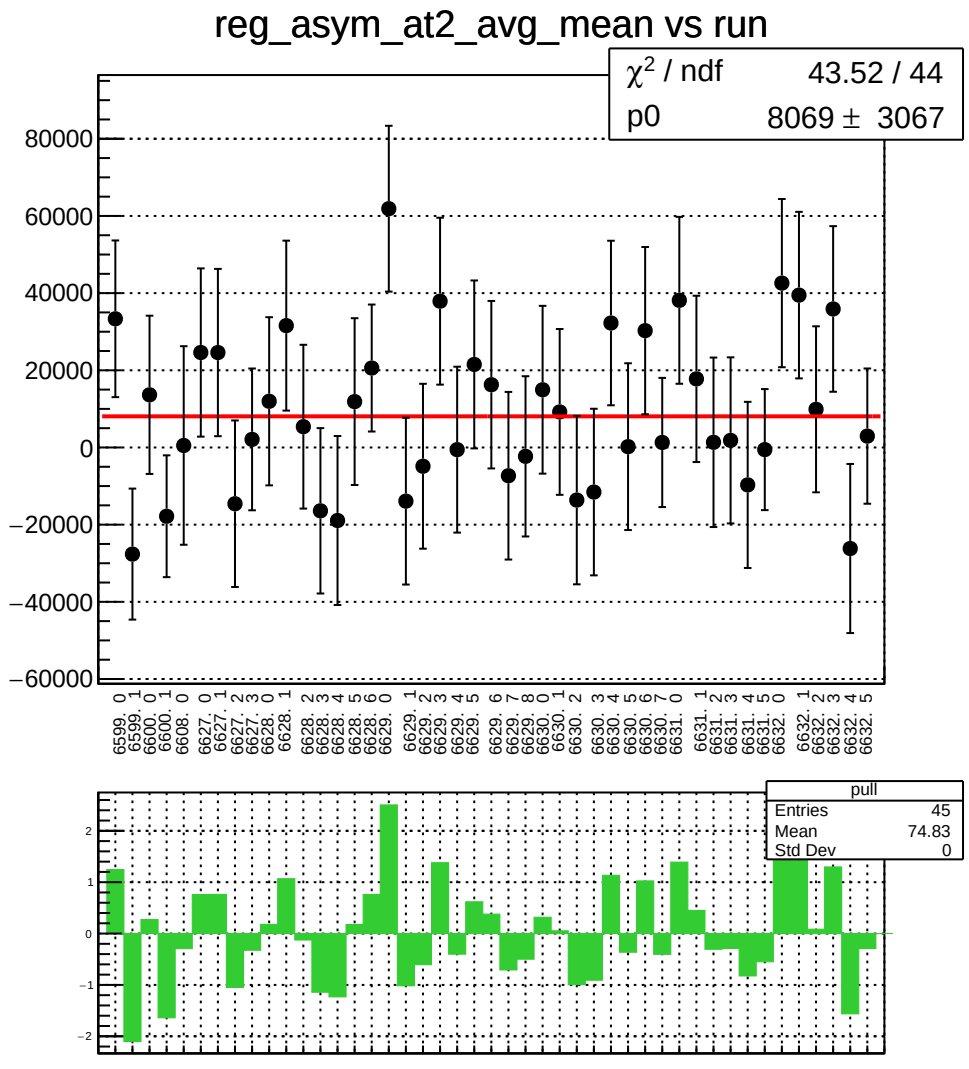
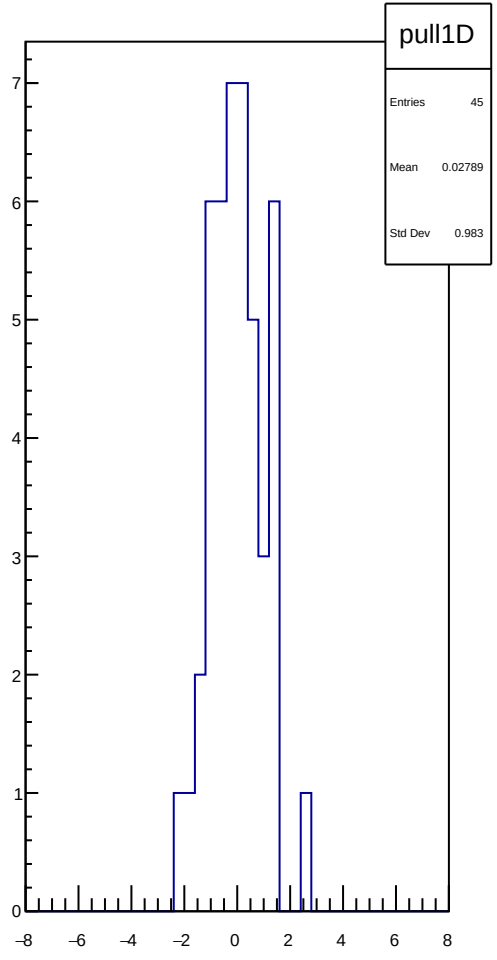
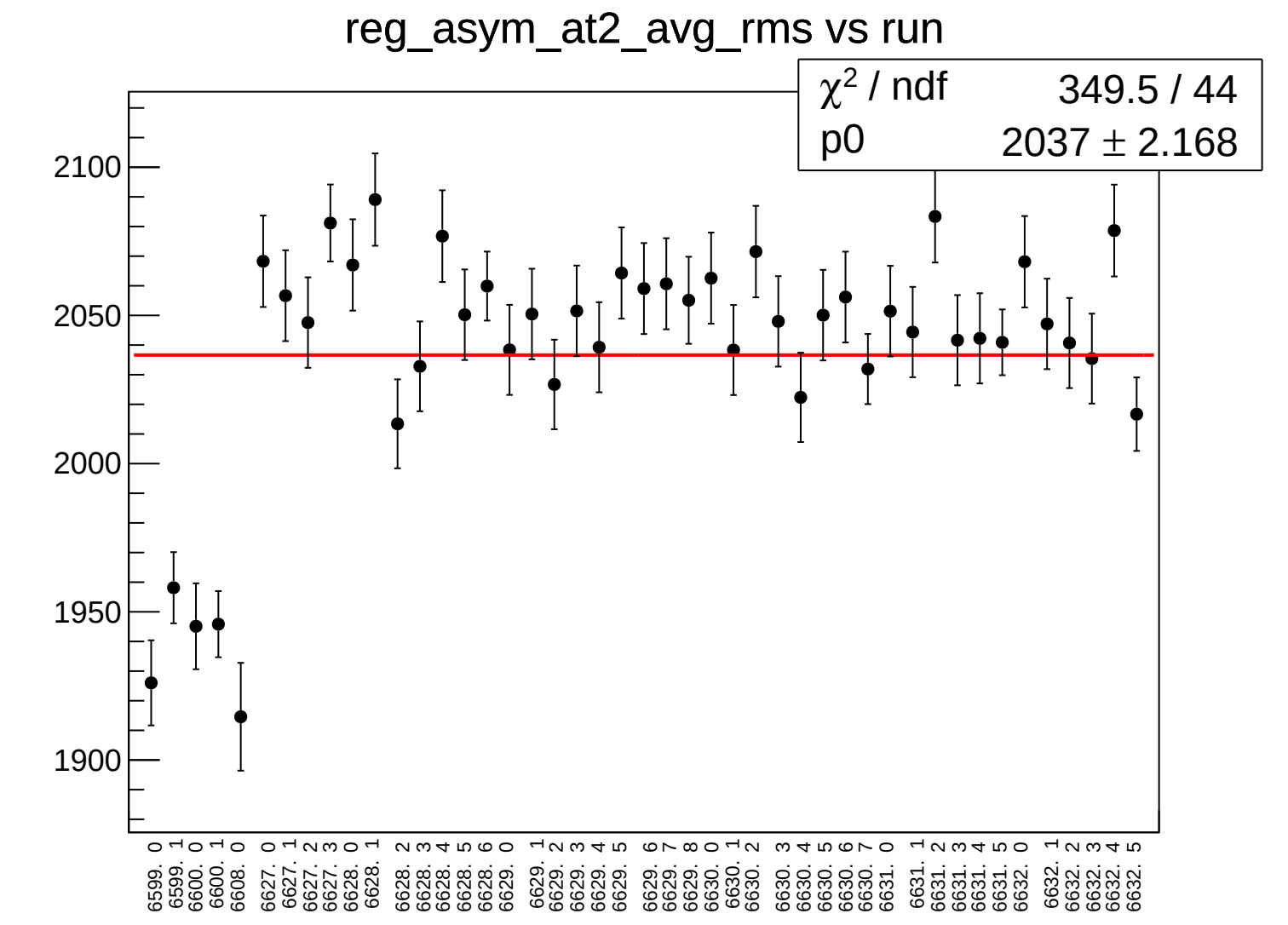
6632. 4
6632. 5

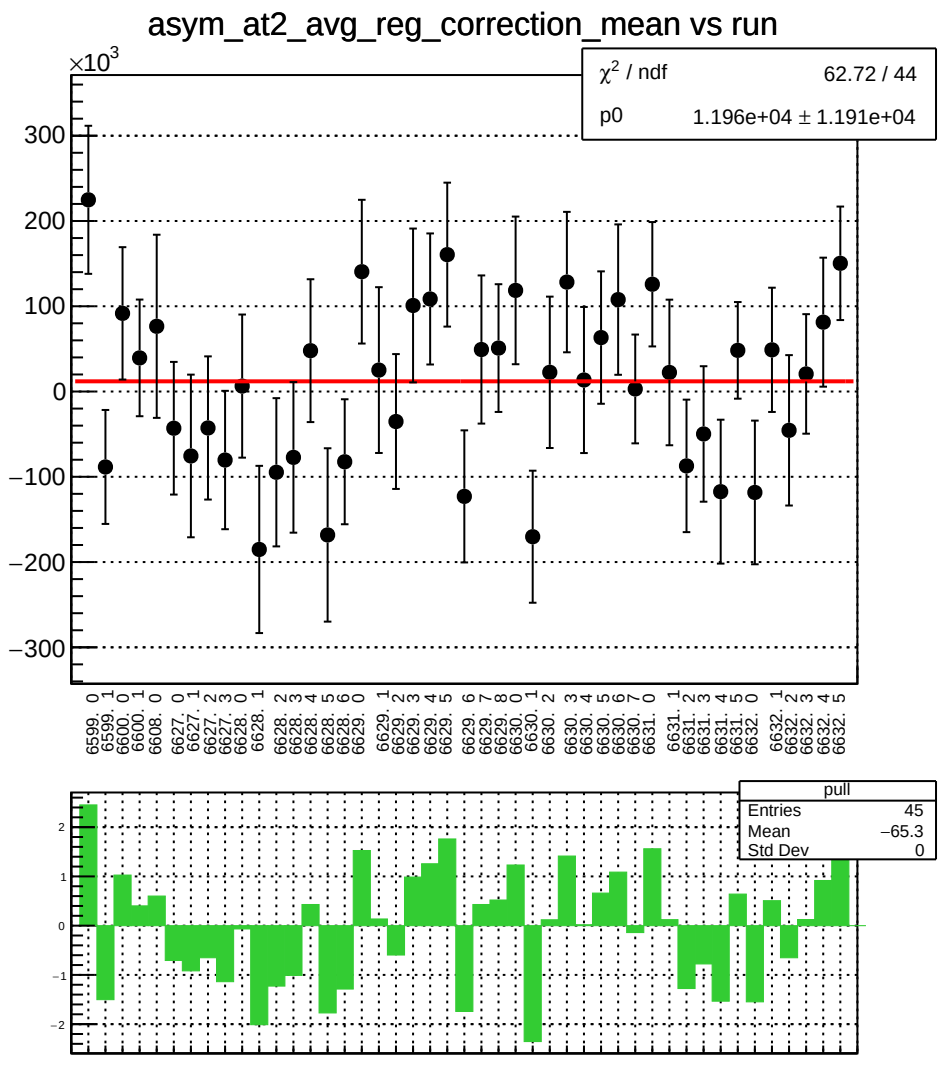

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 44.41 / 44
p0 1.114e−14 ± 1.201e−14
1.5
1
0.5
0
−0.5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 7.535
Std Dev 54.09
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.00948
Std Dev 0.9934
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

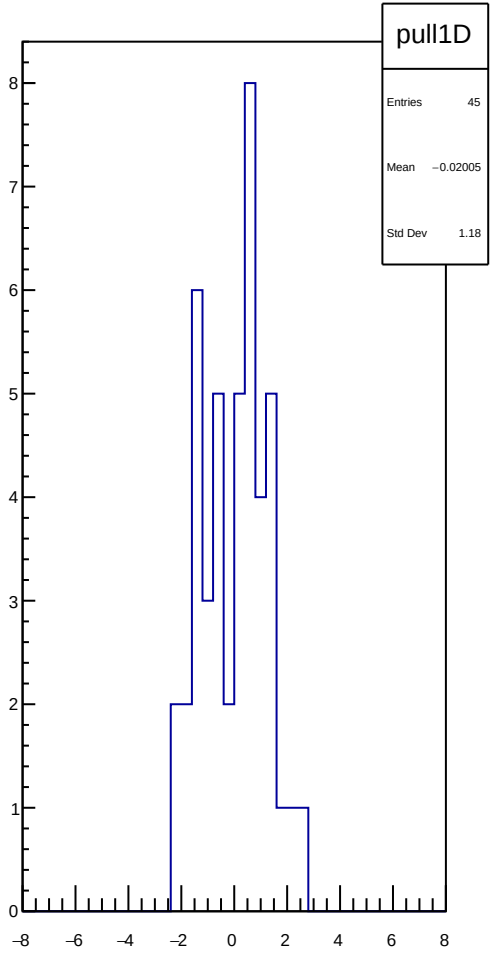

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.692e+05 / 44
p0 6.653e−12 ± 8.495e−15
60
50
40
30
20
10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

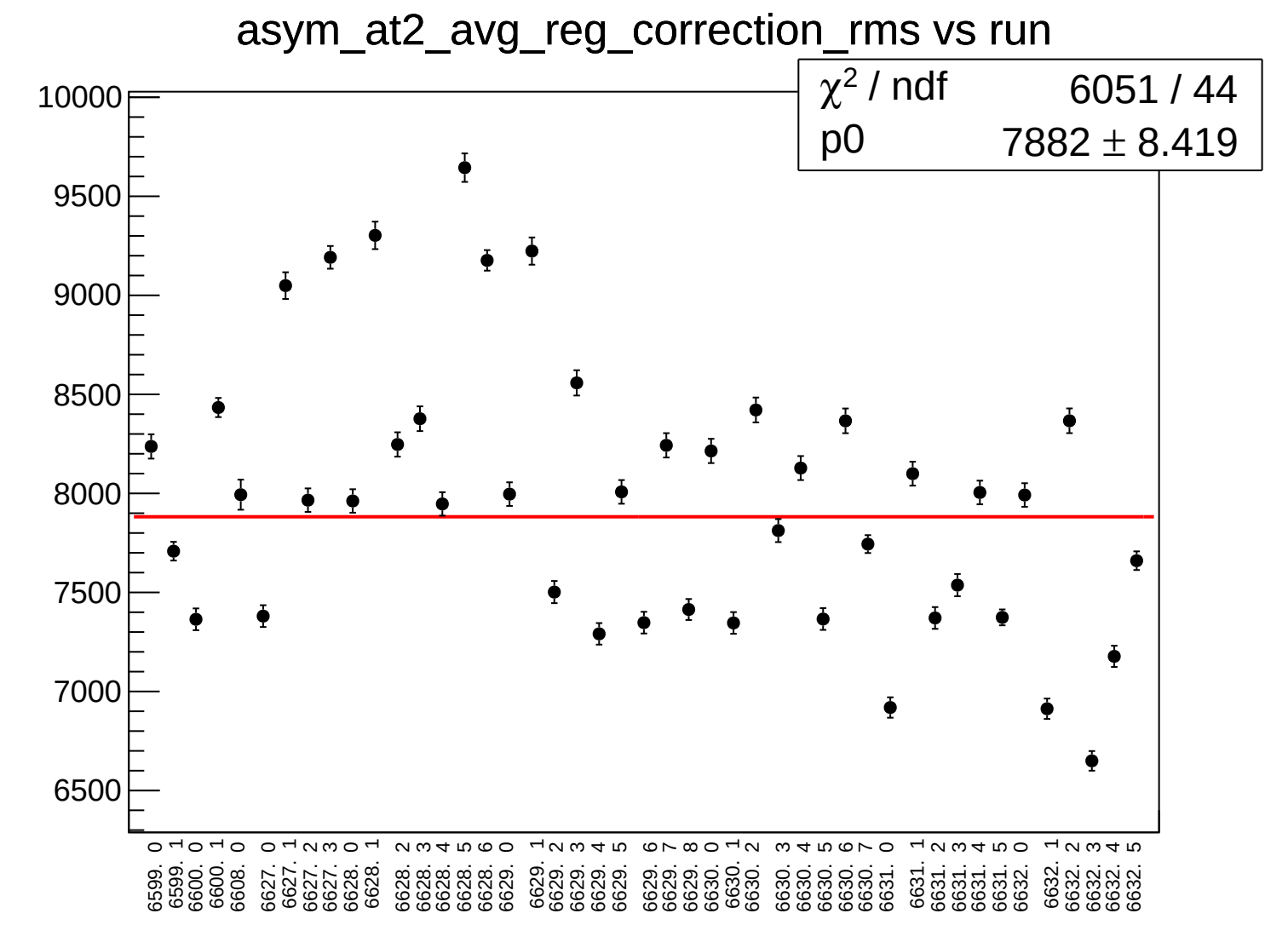

reg_asym_at2_avg_mean vs run
χ² / ndf 43.52 / 44
p0 8069 ± 3067
80000
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 74.83
Std Dev 0
2
1
0
−1
−2

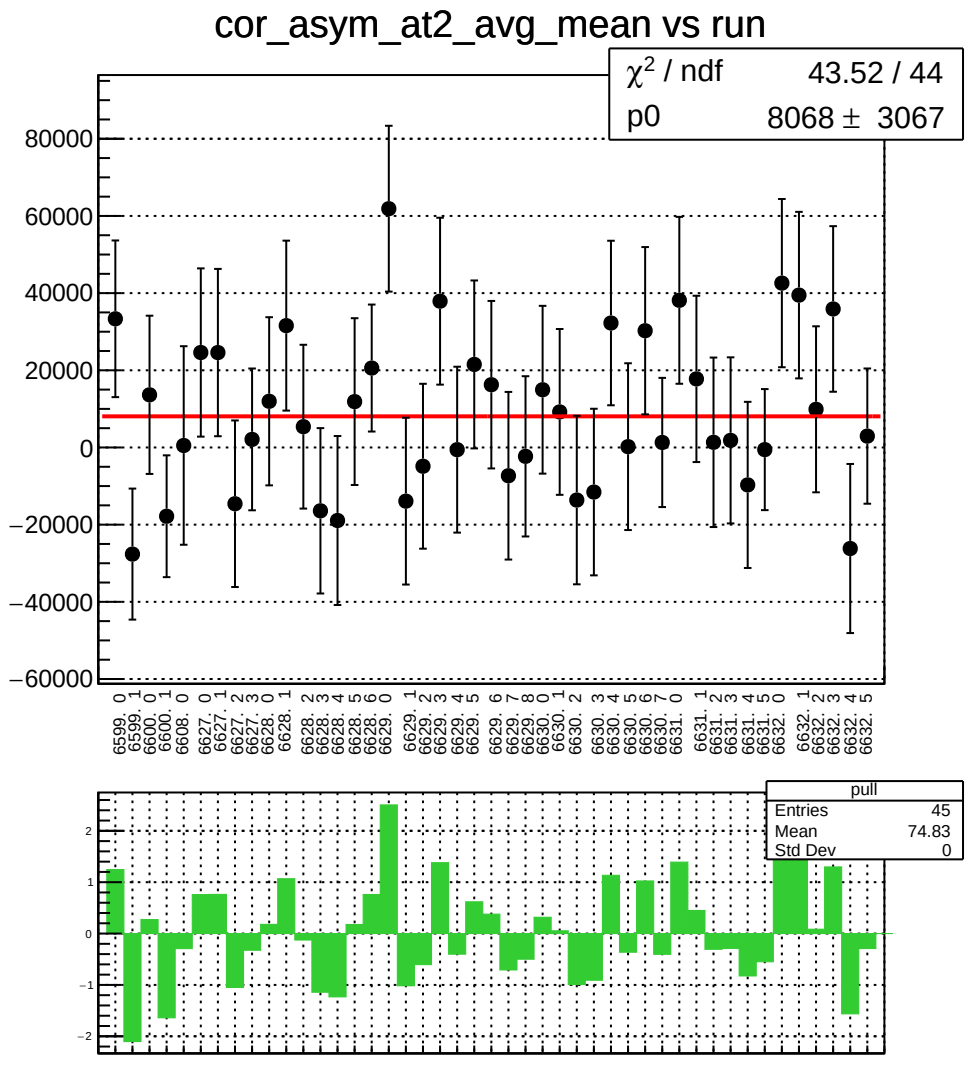

pull1D
Entries 45
Mean 0.02789
Std Dev 0.983
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at2_avg_rms vs run
χ² / ndf 349.5 / 44
p0 2037 ± 2.168
2100
2050
2000
1950
1900
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 62.72 / 44
p0 1.196e+04 ± 1.191e+04
300
200
100
0
−100
−200
−300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −65.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.02005
Std Dev 1.18
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 6051 / 44
p0 7882 ± 8.419
10000
9500
9000
8500
8000
7500
7000
6500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_at2_avg_mean vs run
χ² / ndf 43.52 / 44
p0 8068 ± 3067
80000
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
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6628. 1
6628. 2
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6628. 6
6629. 0
6629. 1
6629. 2
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6629. 5
6629. 6
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6629. 8
6630. 0
6630. 1
6630. 2
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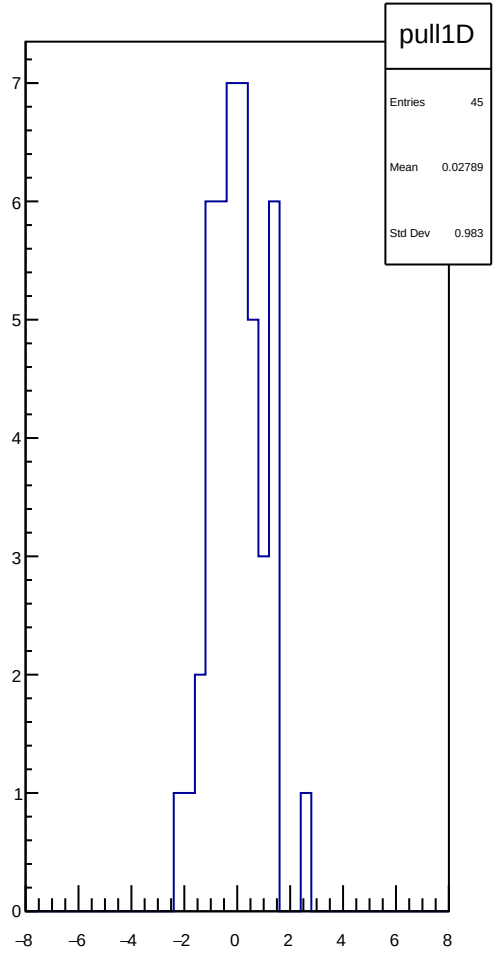
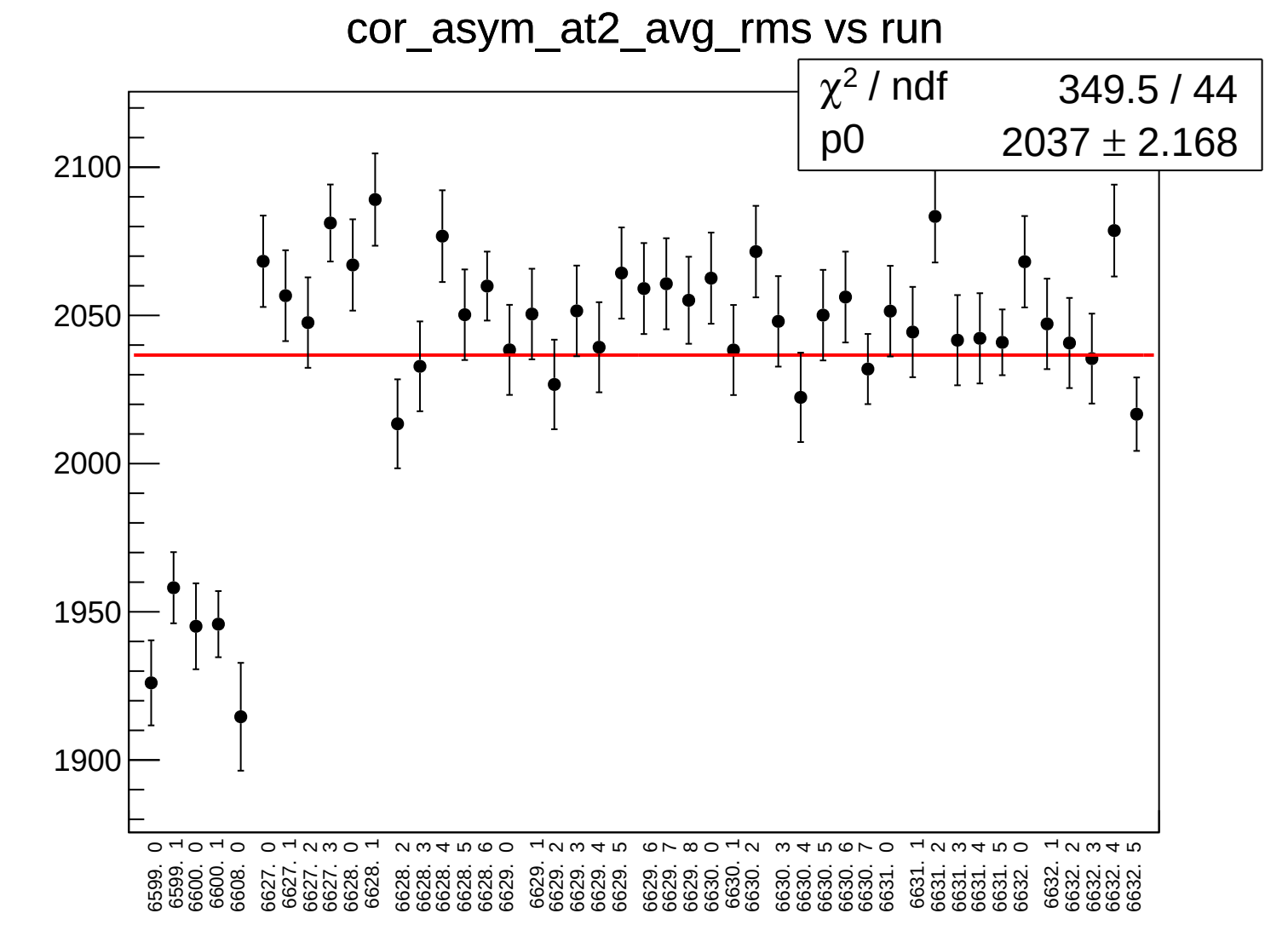
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 74.83
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.02789
Std Dev 0.983
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 349.5 / 44
p0 2037 ± 2.168
2100
2050
2000
1950
1900
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
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6628. 6
6629. 0
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6629. 2
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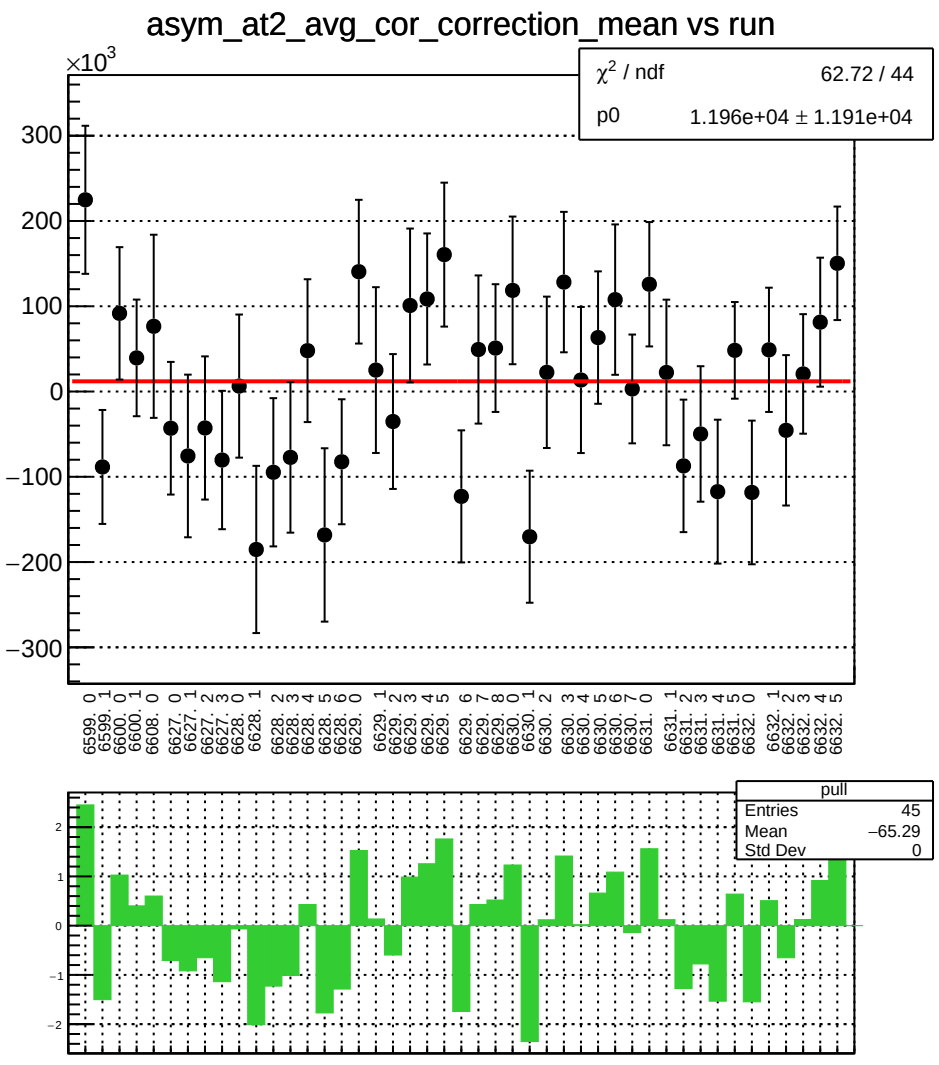
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 62.72 / 44
p0 1.196e+04 ± 1.191e+04
300
200
100
0
−100
−200
−300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
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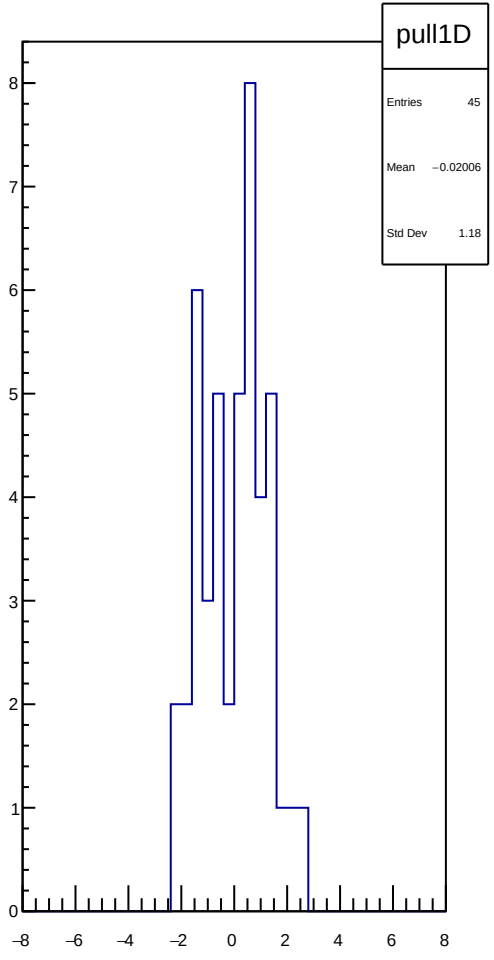
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −65.29
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.02006
Std Dev 1.18
8
7
6
5
4
3
2
1
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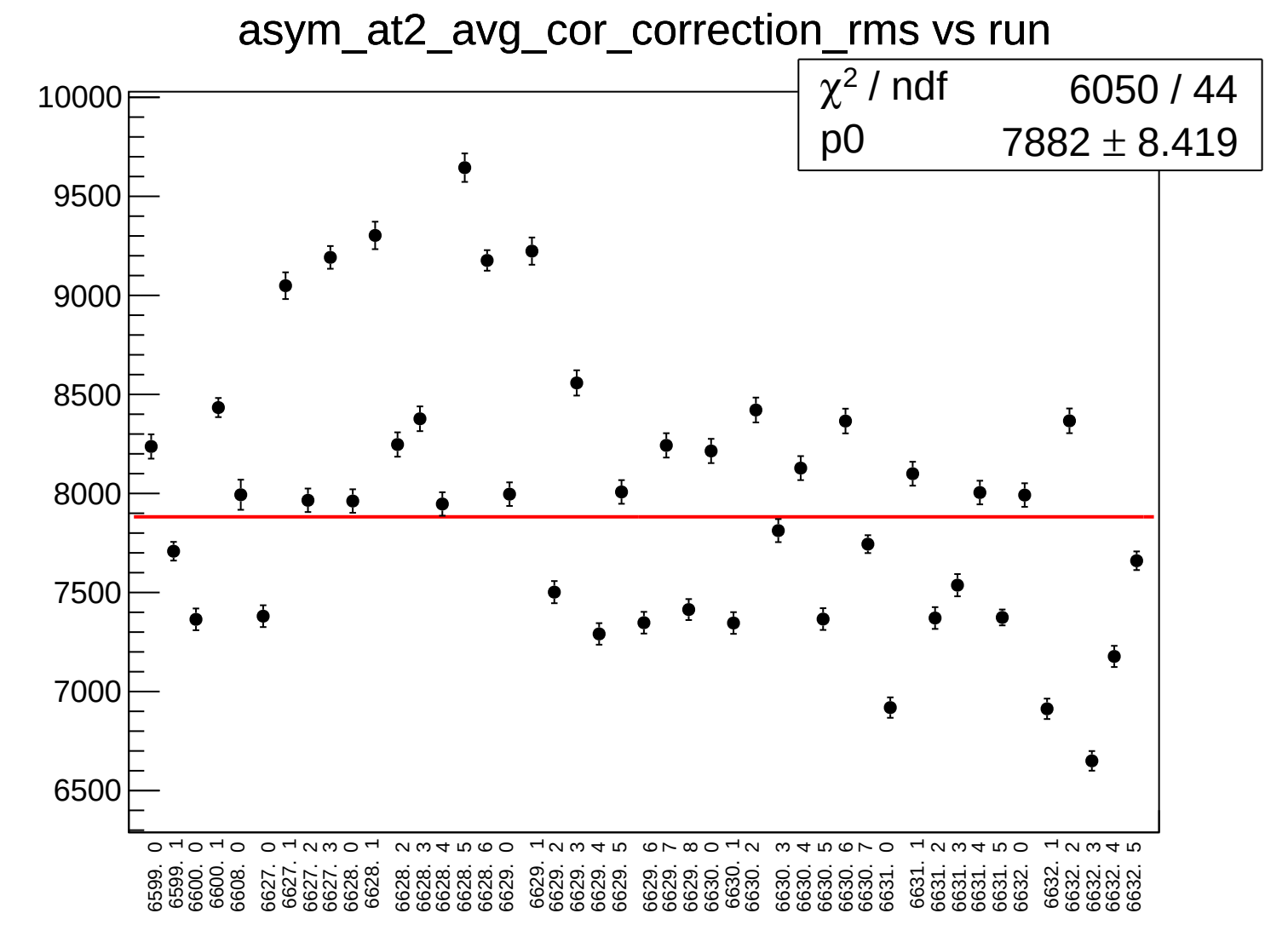
−8
−6
−4
−2
0
2
4
6
8


asym_at2_avg_cor_correction_rms vs run
χ² / ndf 6050 / 44
p0 7882 ± 8.419
10000
9500
9000
8500
8000
7500
7000
6500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
6632. 0
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6632. 2
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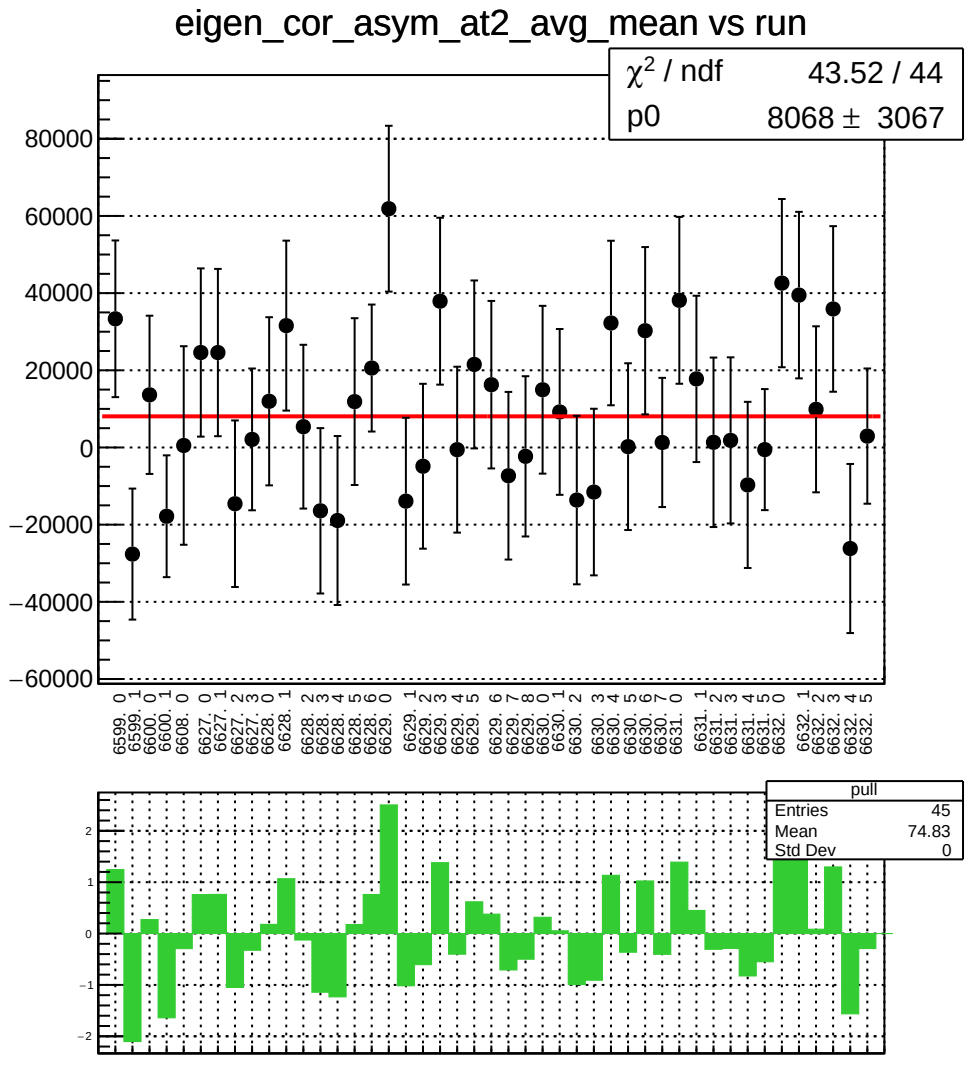
6632. 4
6632. 5


eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 43.52 / 44
p0 8068 ± 3067
80000
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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6628. 6
6629. 0
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6629. 2
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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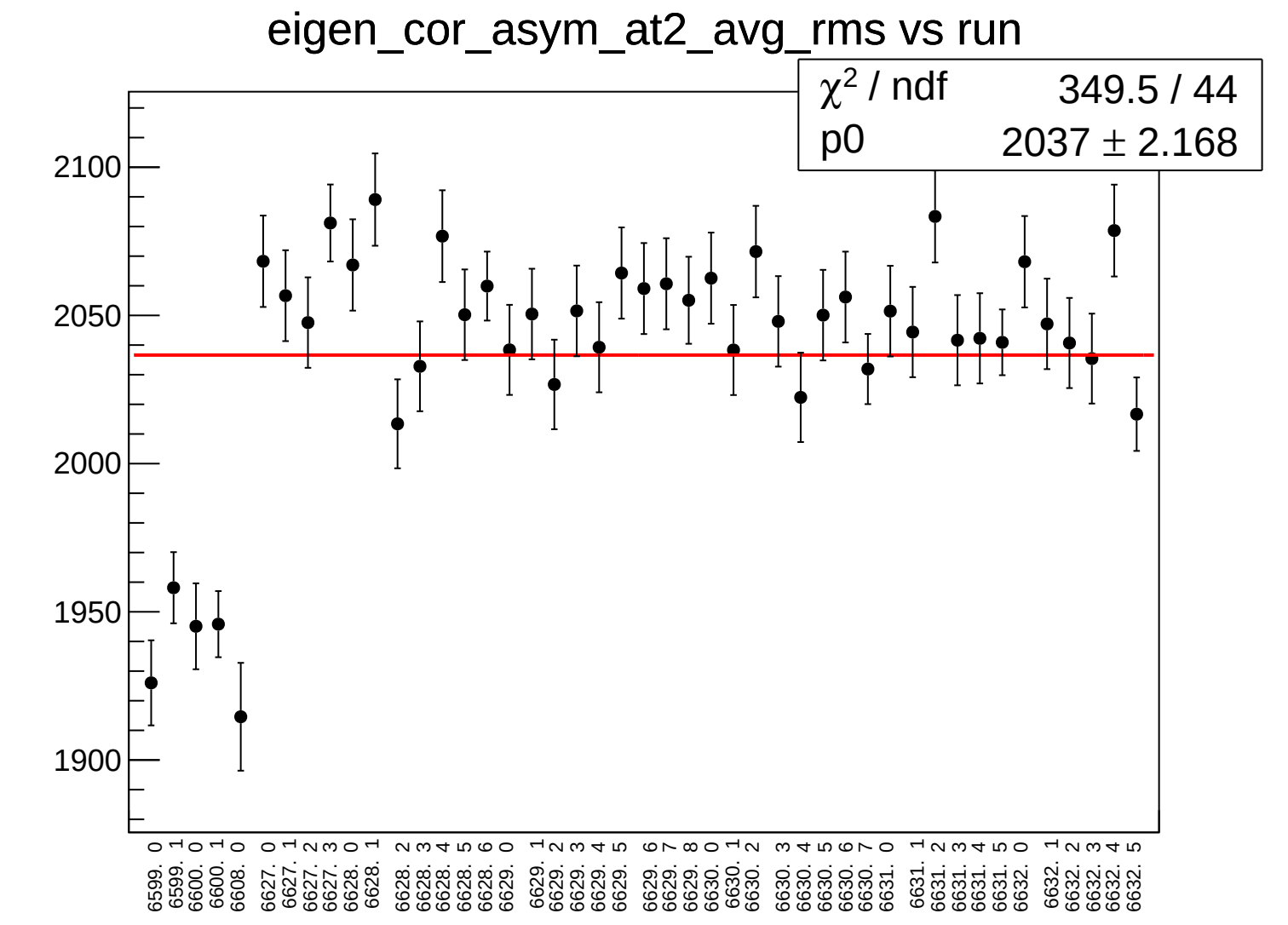
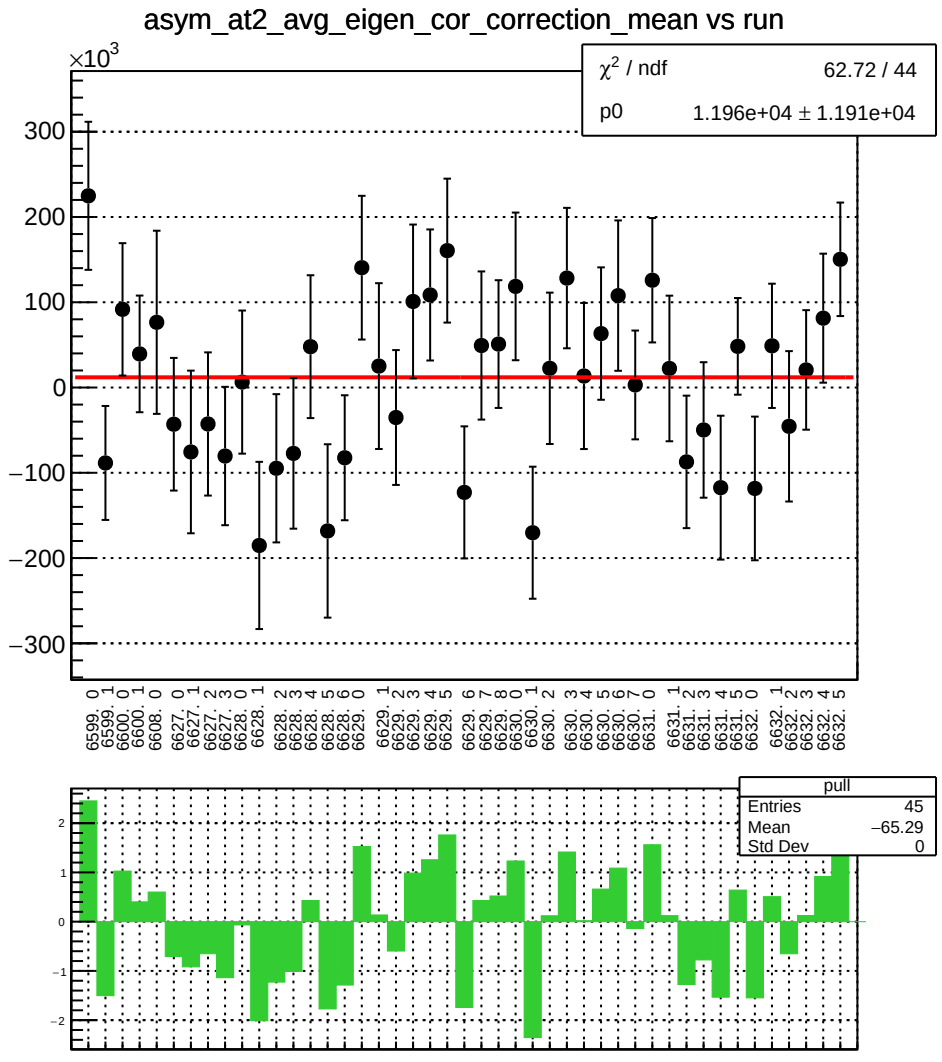
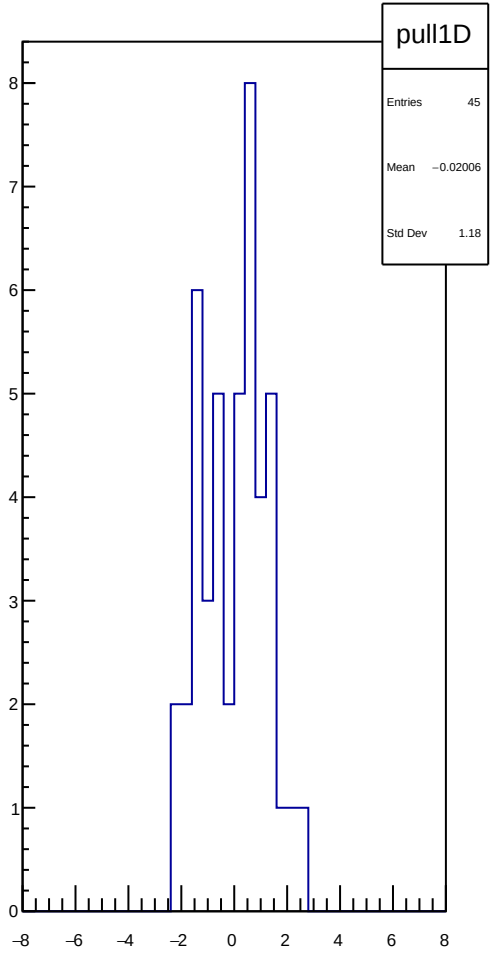
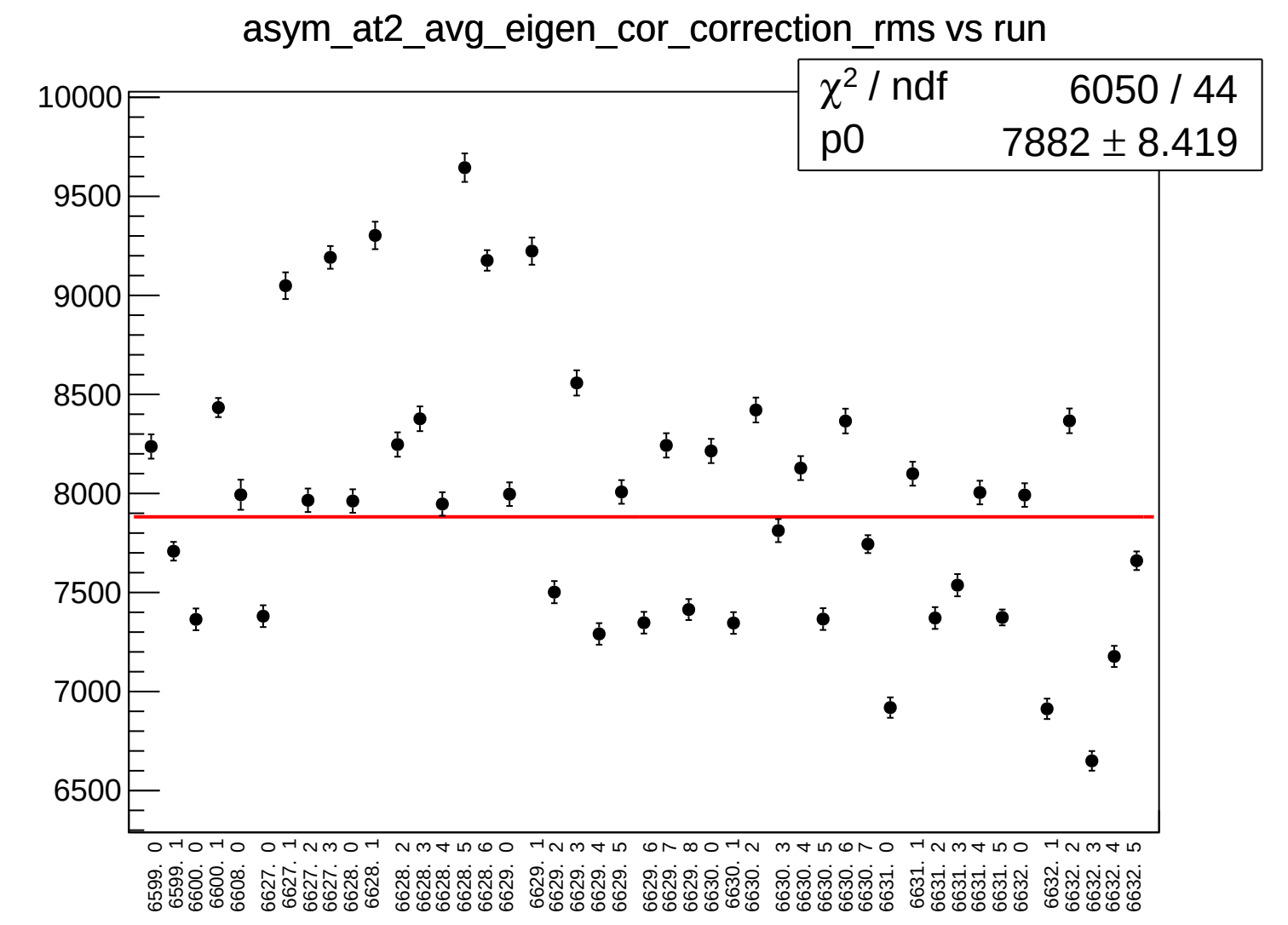
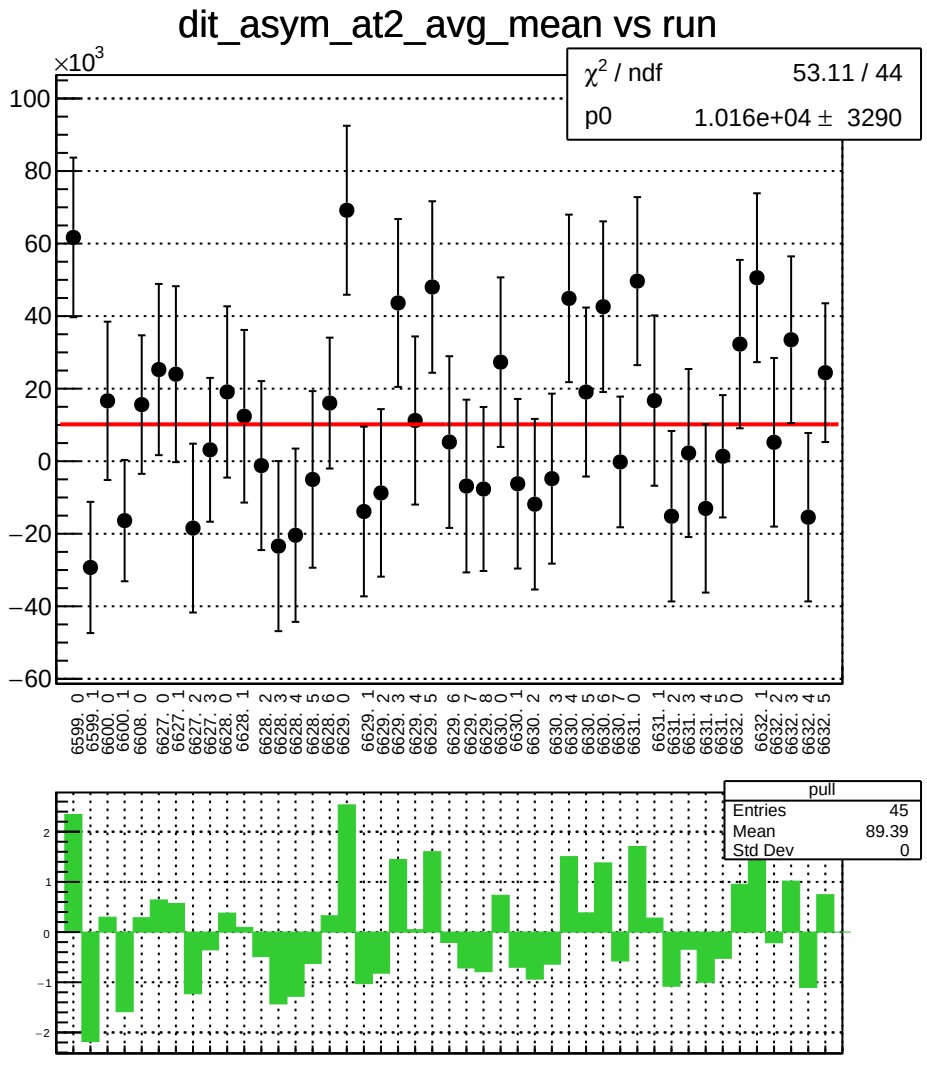
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 74.83
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.02789
Std Dev 0.983
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

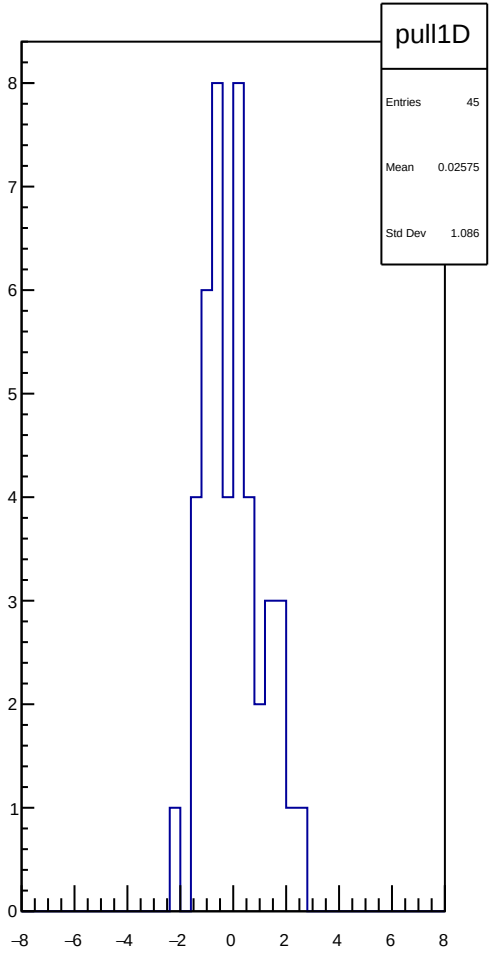

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 349.5 / 44
p0 2037 ± 2.168
2100
2050
2000
1950
1900
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

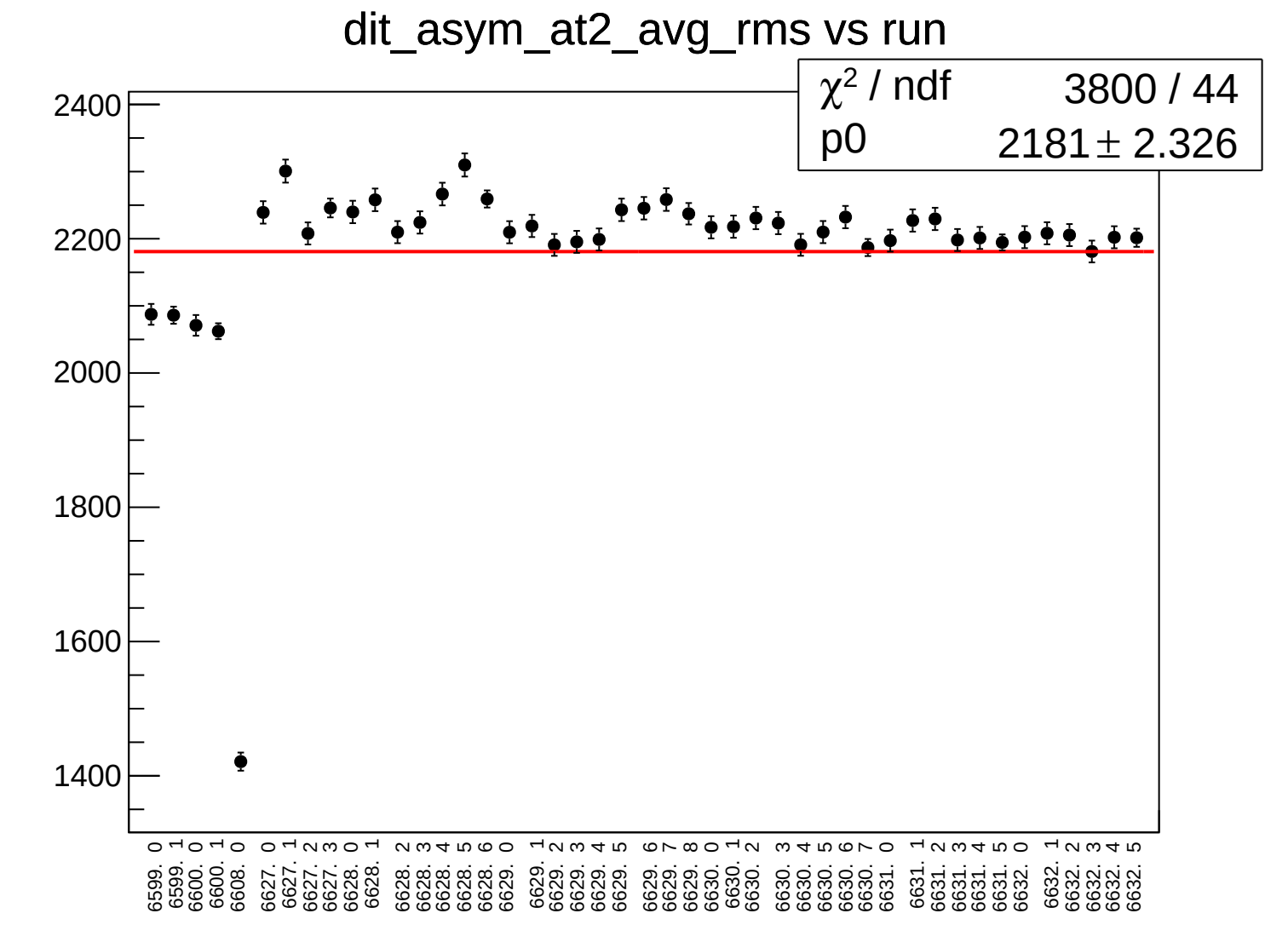

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 62.72 / 44
p0 1.196e+04 ± 1.191e+04
300
200
100
0
−100
−200
−300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −65.29
Std Dev 0
2
1
0
−1
−2

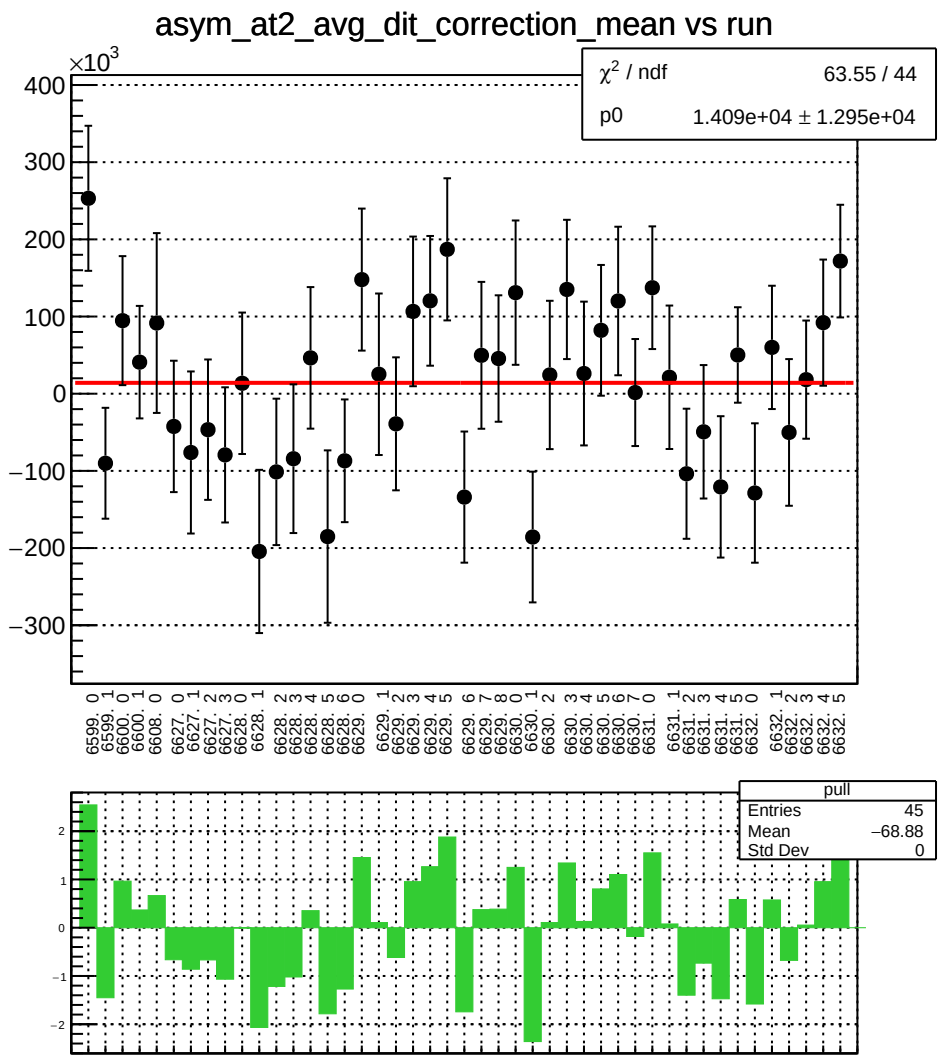

pull1D
Entries 45
Mean −0.02006
Std Dev 1.18
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

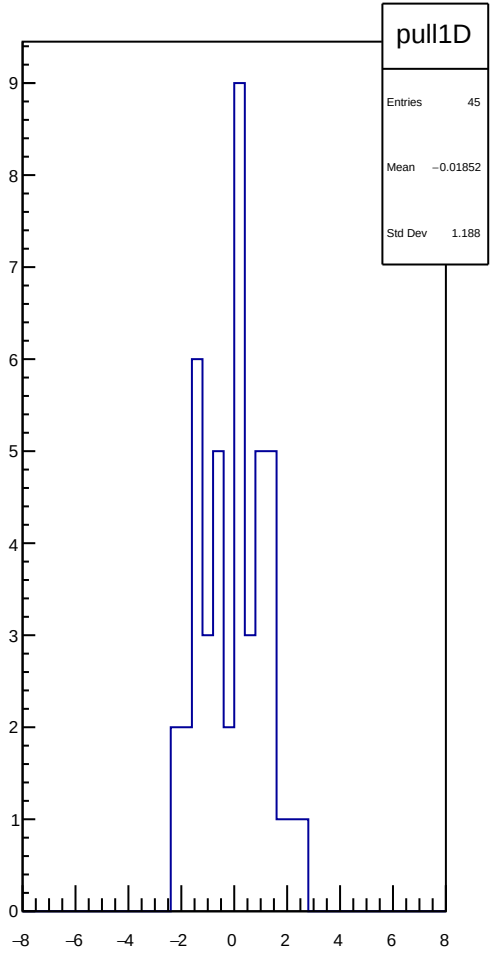

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 6050 / 44
p0 7882 ± 8.419
10000
9500
9000
8500
8000
7500
7000
6500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

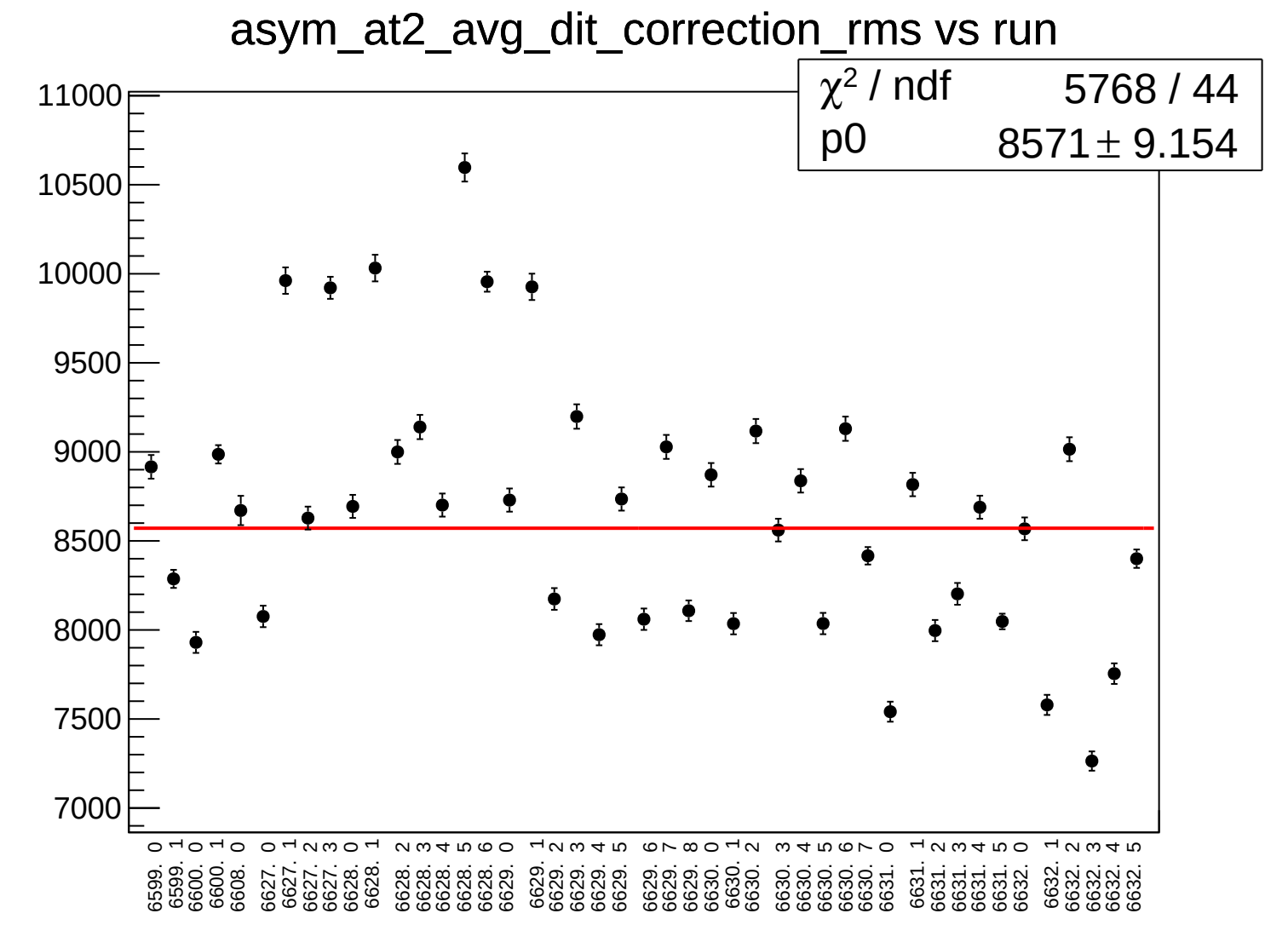

dit_asym_at2_avg_mean vs run
×10^3
χ² / ndf 53.11 / 44
p0 1.016e+04 ± 3290
pull
Entries 45
Mean 89.39
Std Dev 0

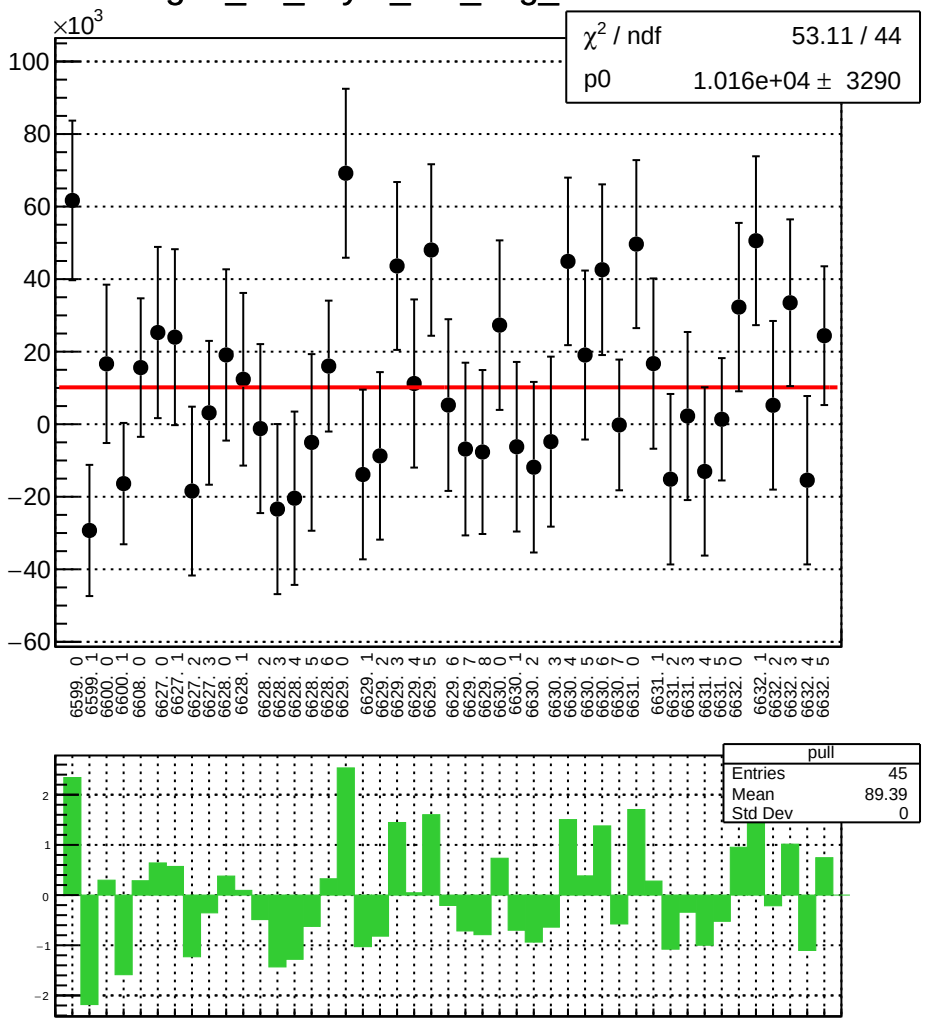

pull1D
Entries 45
Mean 0.02575
Std Dev 1.086

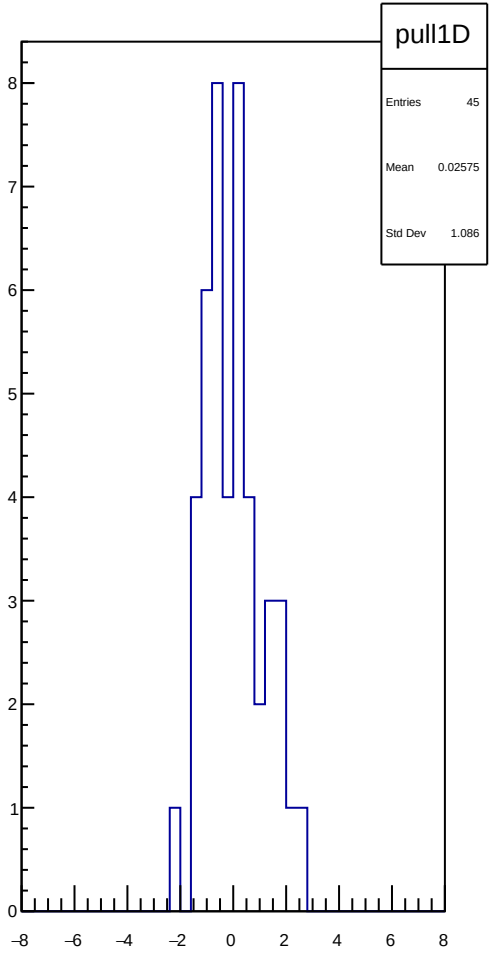

dit_asym_at2_avg_rms vs run
χ² / ndf 3800 / 44
p0 2181 ± 2.326
2400
2200
2000
1800
1600
1400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

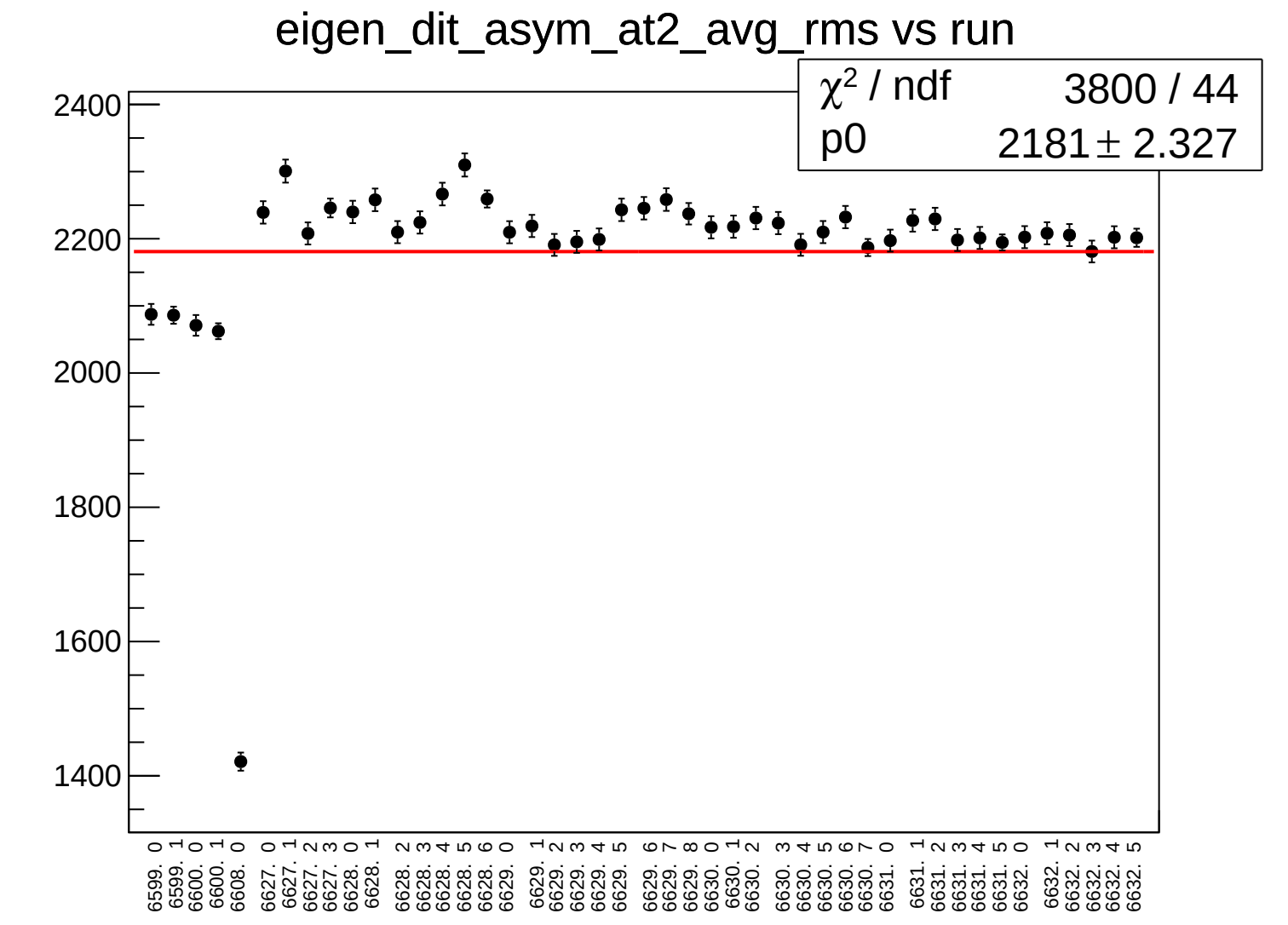

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 63.55 / 44
p0 1.409e+04 ± 1.295e+04
400
300
200
100
0
−100
−200
−300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −68.88
Std Dev 0
2
1
0
−1
−2

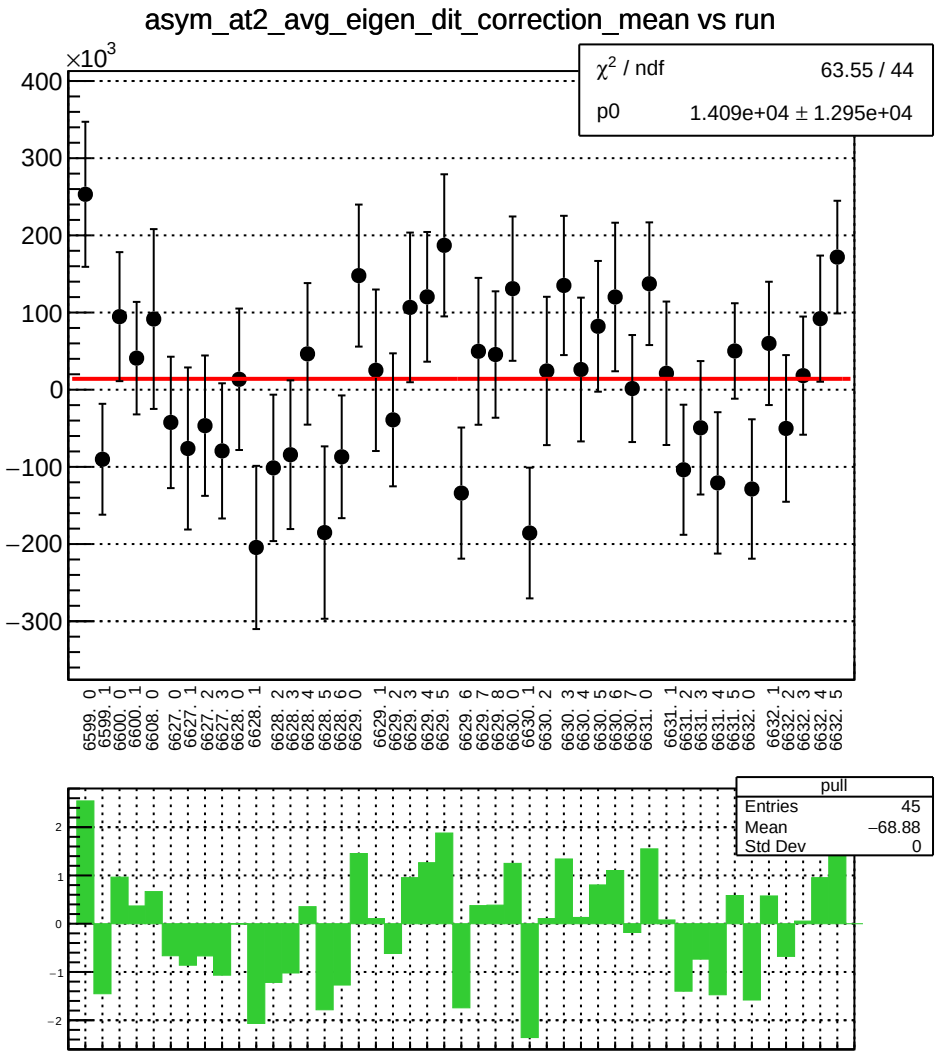

pull1D
Entries 45
Mean −0.01852
Std Dev 1.188
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

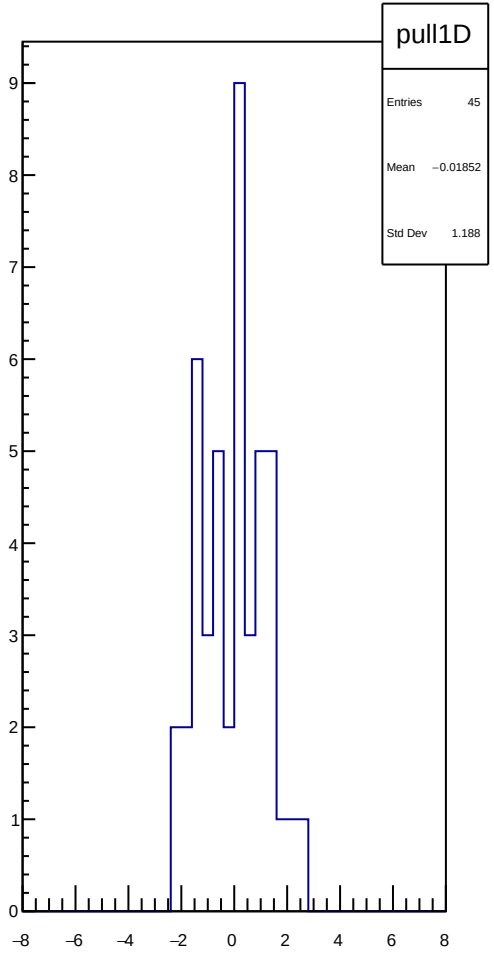

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 5768 / 44
p0 8571 ± 9.154
11000
10500
10000
9500
9000
8500
8000
7500
7000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

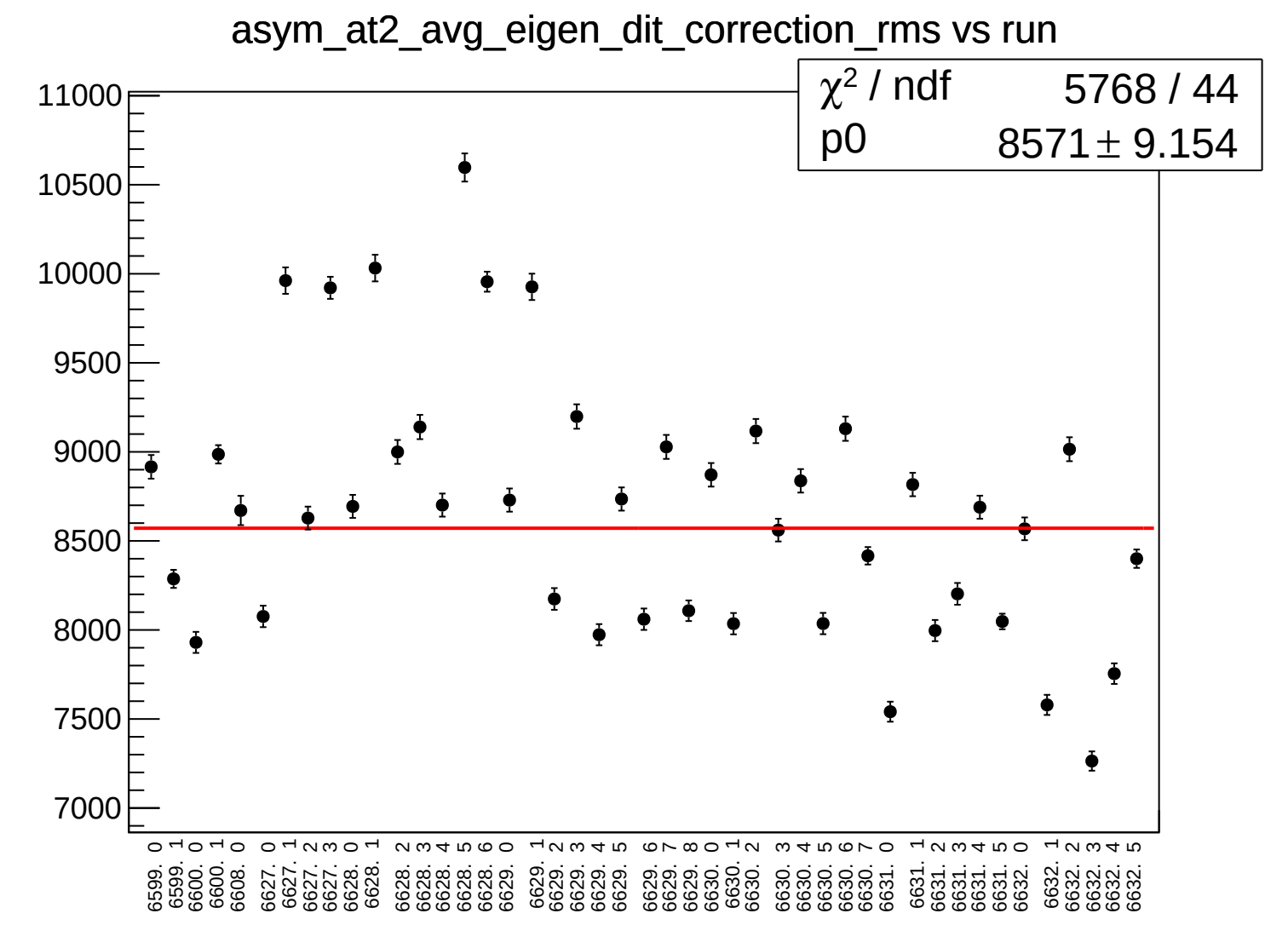

eigen_dit_asym_at2_avg_mean vs run
×10^3
χ² / ndf 53.11 / 44
p0 1.016e+04 ± 3290
pull
Entries 45
Mean 89.39
Std Dev 0

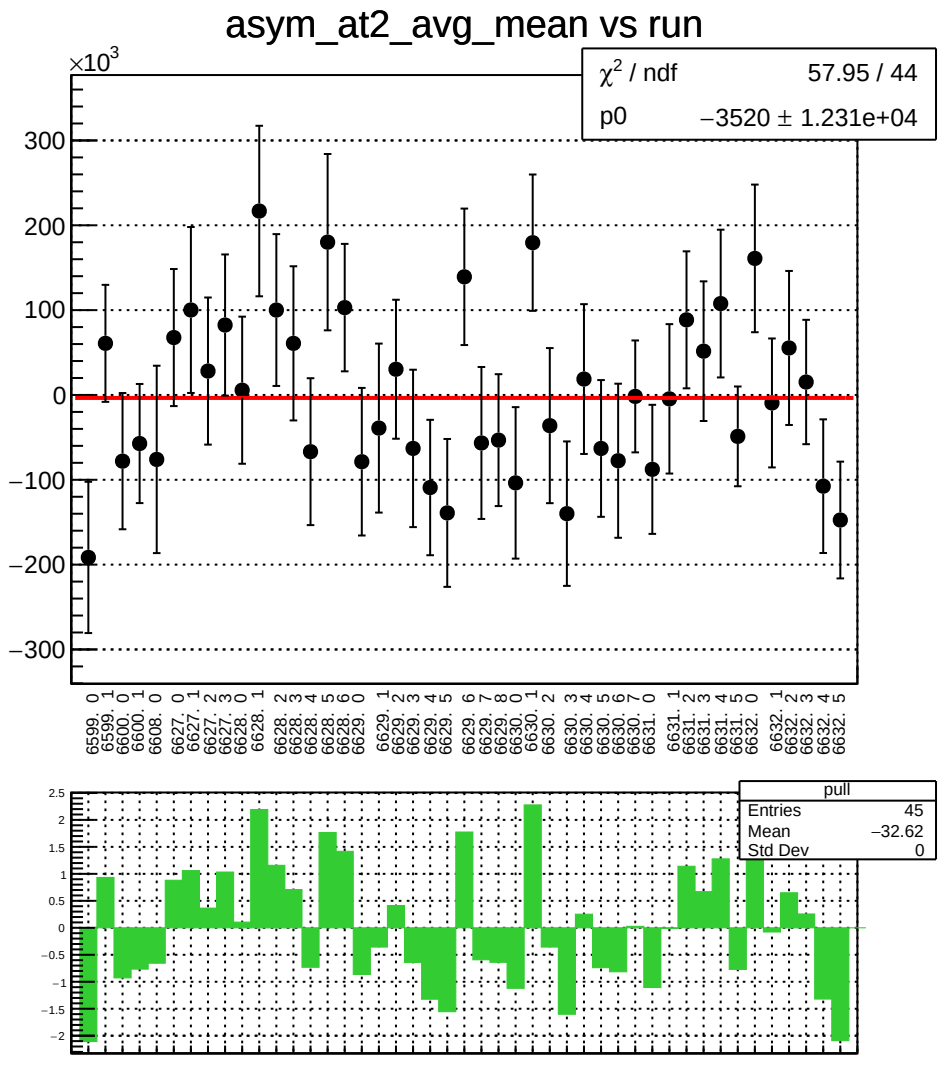

pull1D
Entries 45
Mean 0.02575
Std Dev 1.086

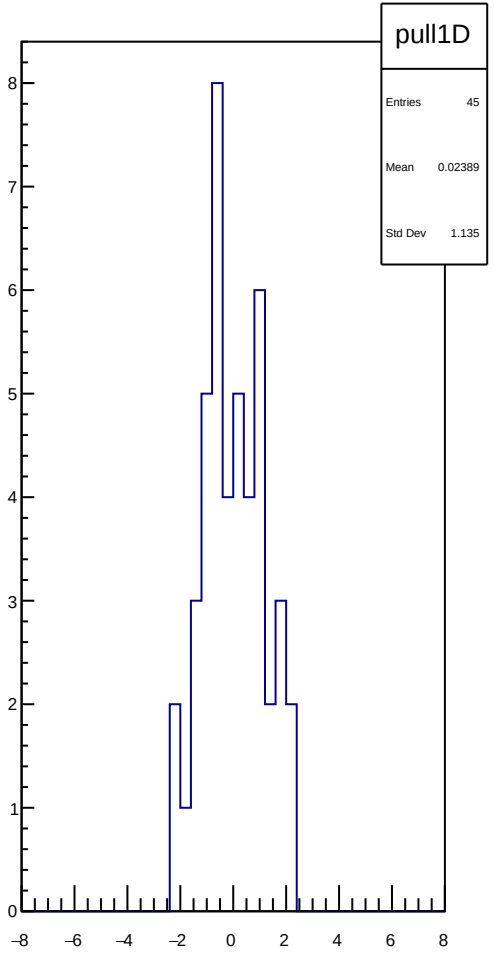

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 3800 / 44
p0 2181 ± 2.327
2400
2200
2000
1800
1600
1400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

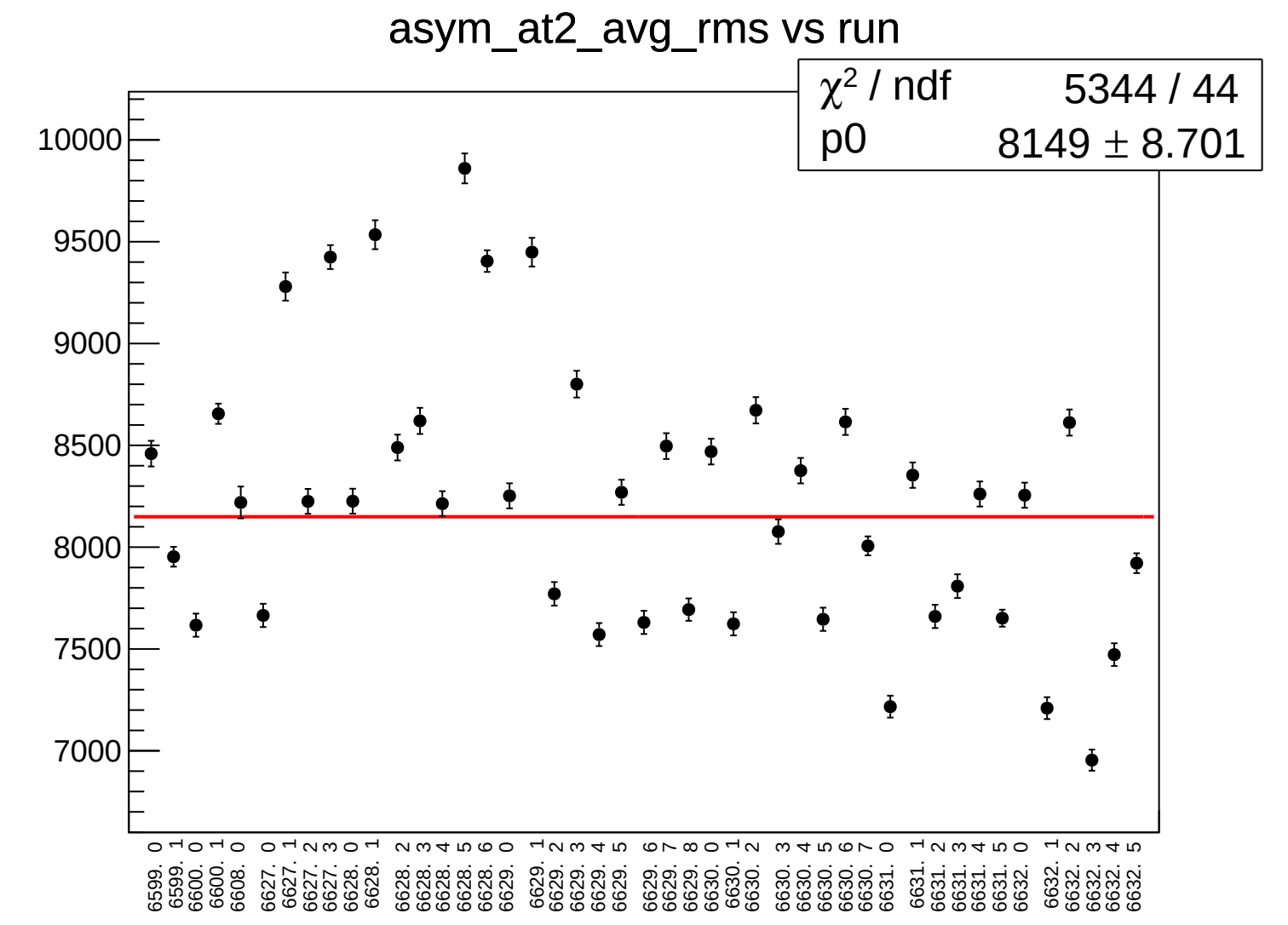

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 63.55 / 44
p0 1.409e+04 ± 1.295e+04
400
300
200
100
0
−100
−200
−300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −68.88
Std Dev 0
2
1
0
−1
−2

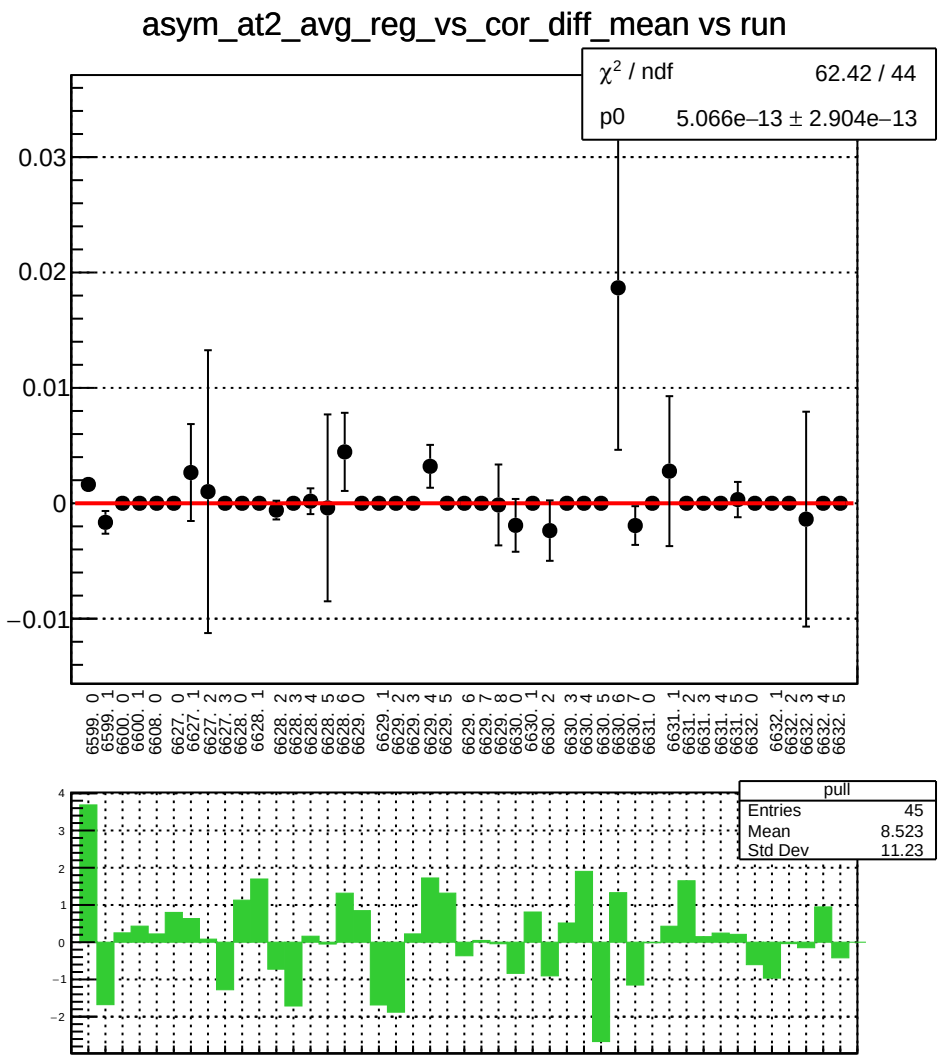

pull1D
Entries 45
Mean −0.01852
Std Dev 1.188
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

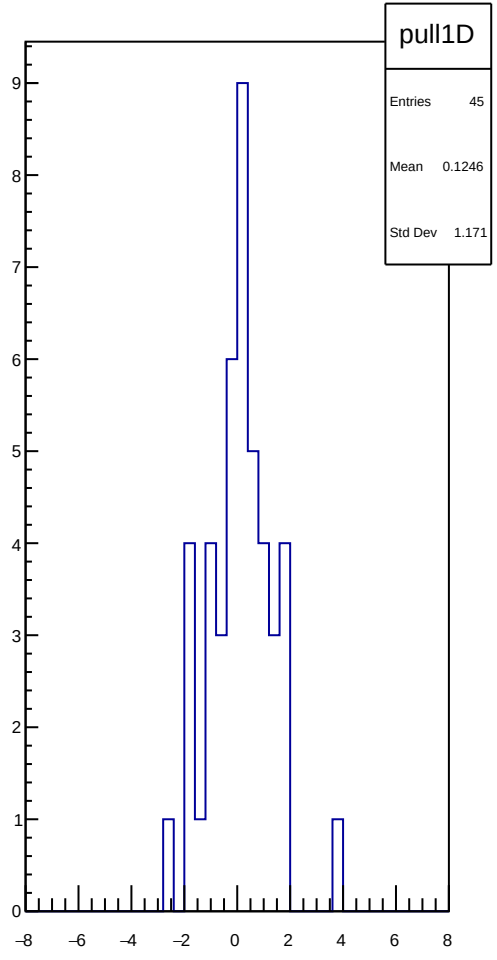

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 5768 / 44
p0 8571 ± 9.154
11000
10500
10000
9500
9000
8500
8000
7500
7000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

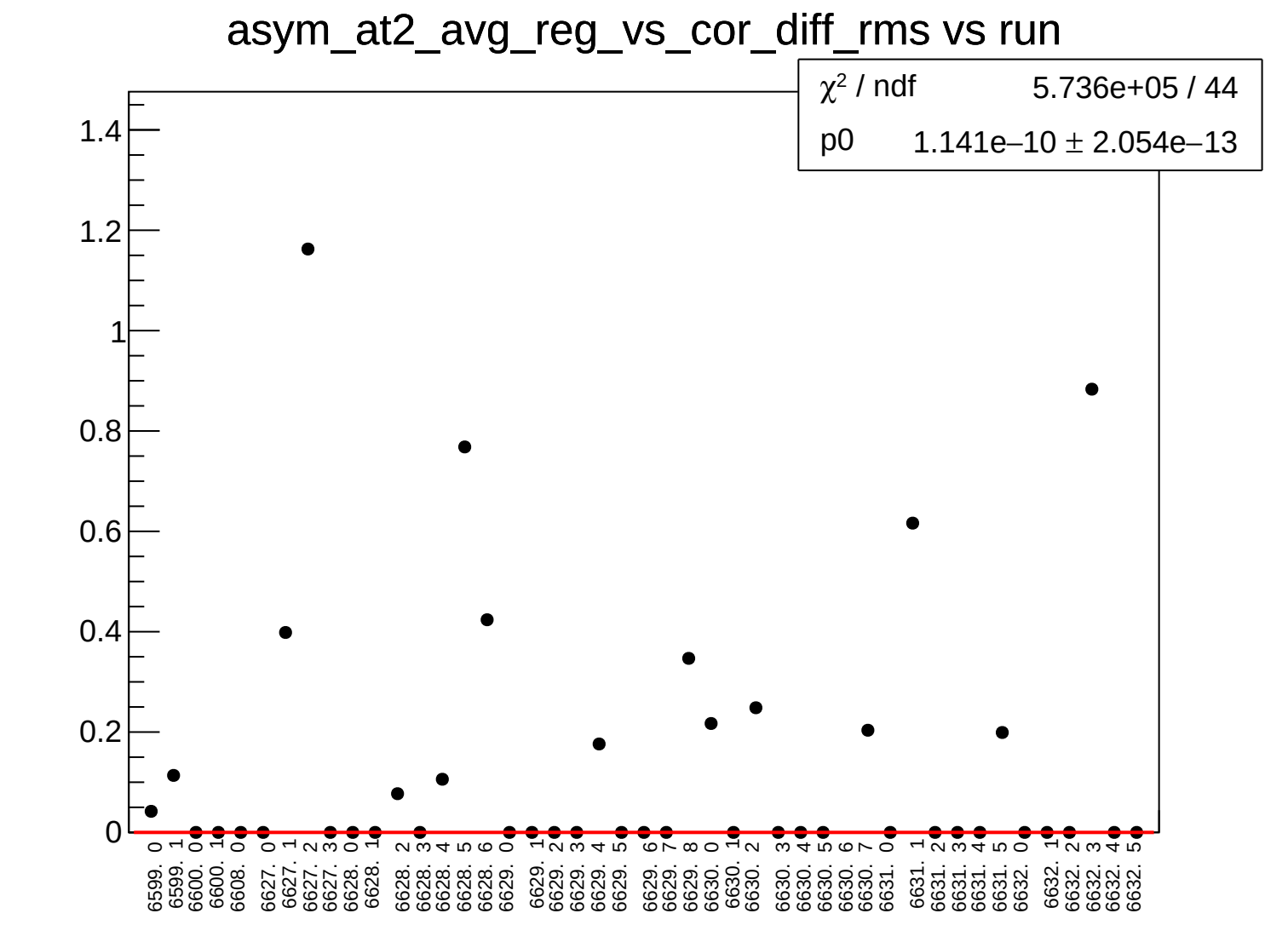

asym_at2_avg_mean vs run
×10^3
χ² / ndf 57.95 / 44
p0 −3520 ± 1.231e+04
300
200
100
0
−100
−200
−300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −32.62
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

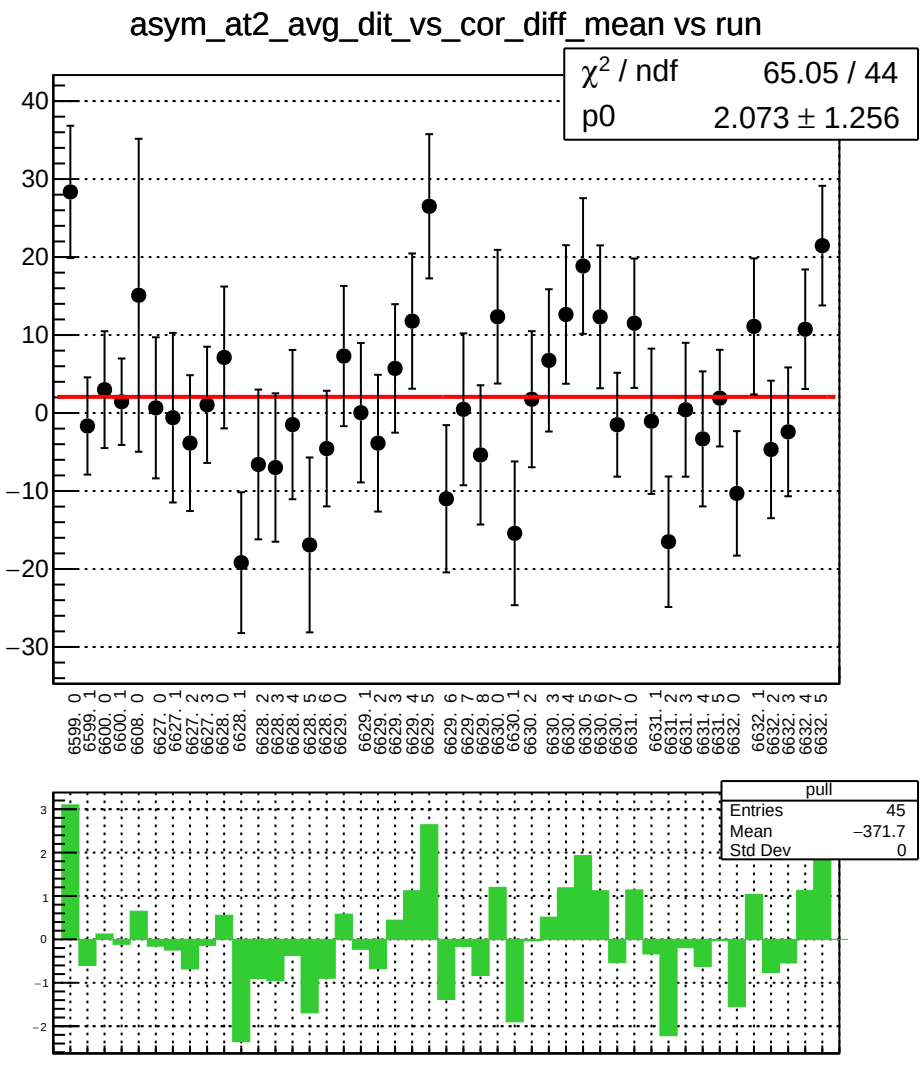

pull1D
Entries 45
Mean 0.02389
Std Dev 1.135
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

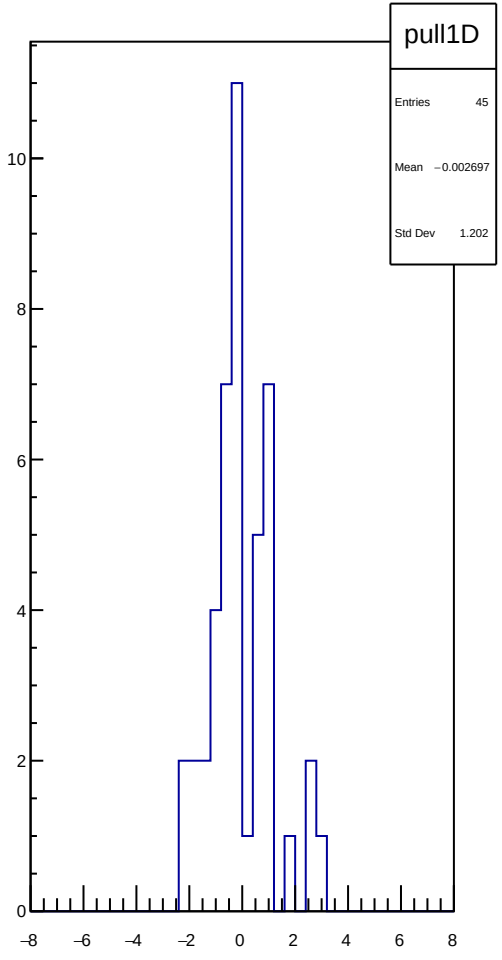

asym_at2_avg_rms vs run
χ² / ndf 5344 / 44
p0 8149 ± 8.701
10000
9500
9000
8500
8000
7500
7000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

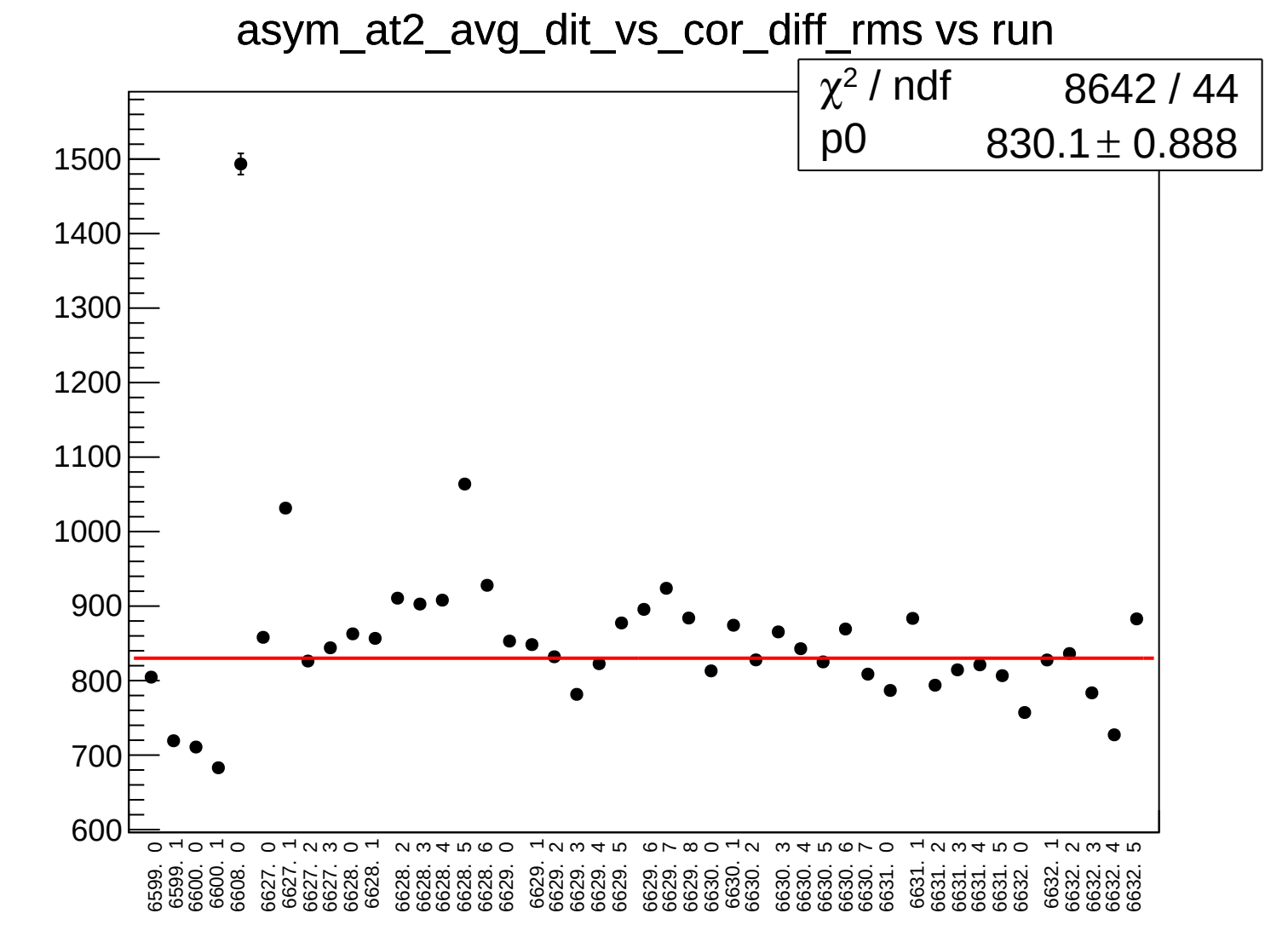

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 62.42 / 44
p0 5.066e−13 ± 2.904e−13
0.03
0.02
0.01
0
−0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 8.523
Std Dev 11.23
4
3
2
1
0
−1
−2

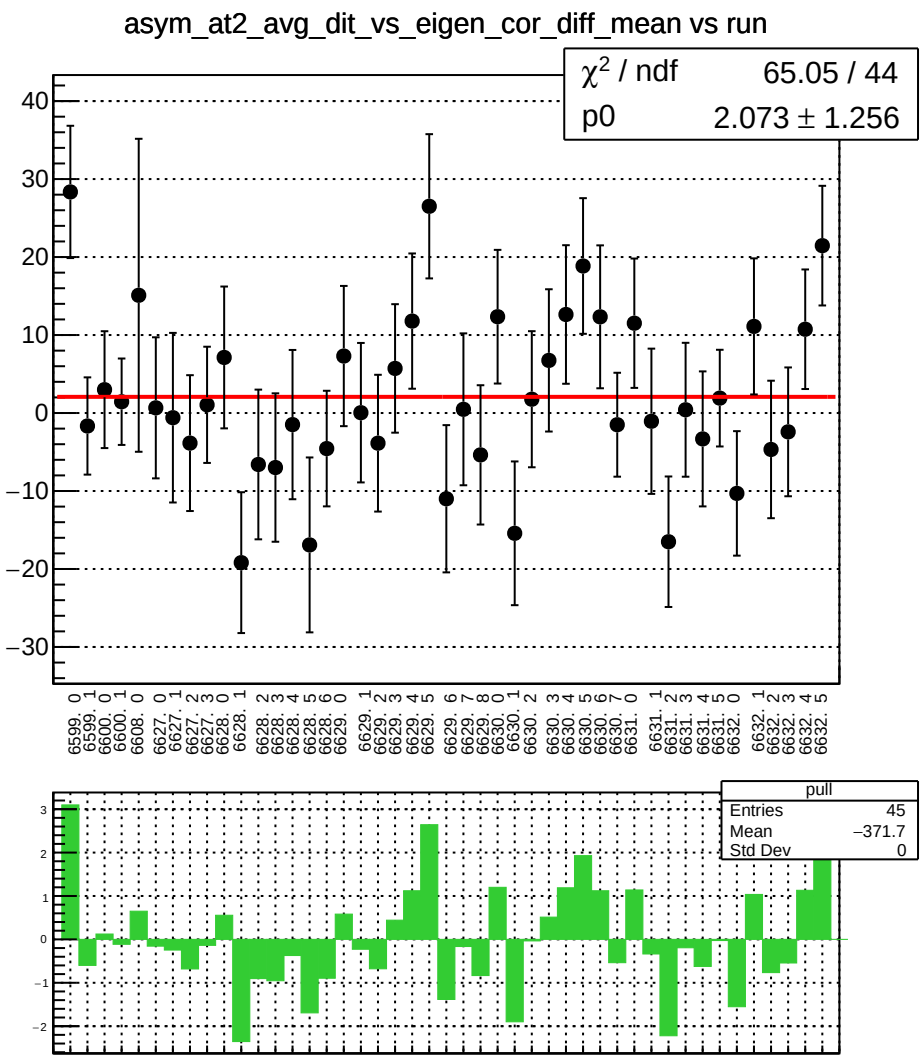

pull1D
Entries 45
Mean 0.1246
Std Dev 1.171
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

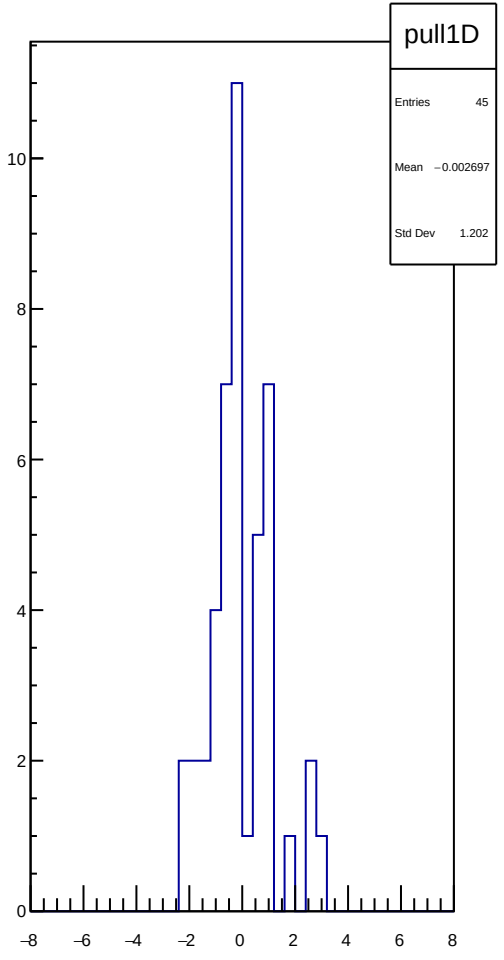

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.736e+05 / 44
p0 1.141e−10 ± 2.054e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

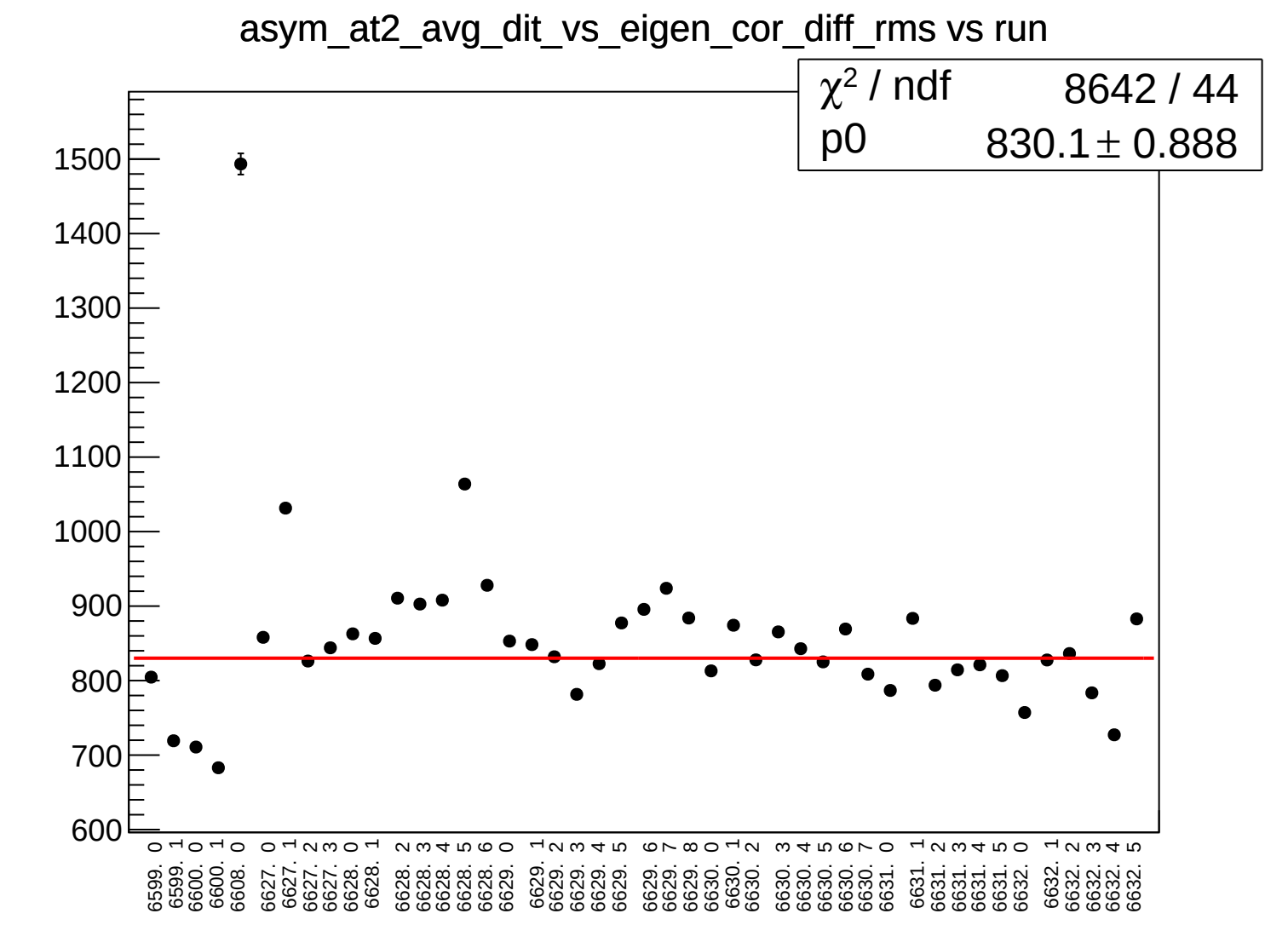

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 65.05 / 44
p0 2.073 ± 1.256
pull
Entries 45
Mean −371.7
Std Dev 0

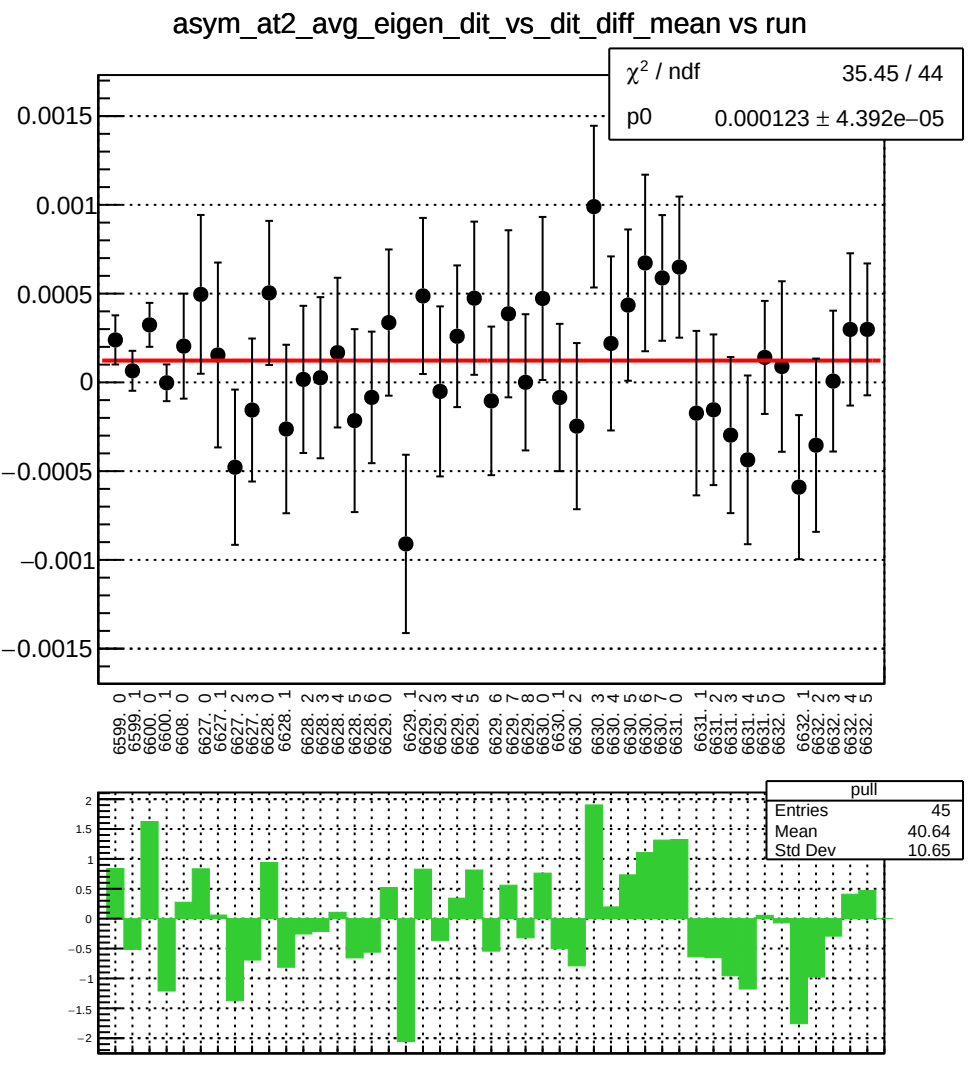

pull1D
Entries 45
Mean −0.002697
Std Dev 1.202

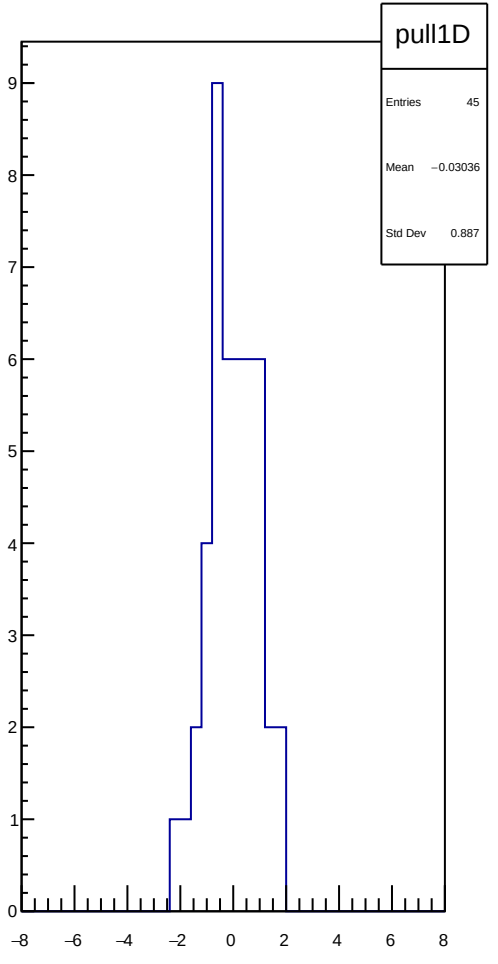

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8642 / 44
p0 830.1 ± 0.888
1500
1400
1300
1200
1100
1000
900
800
700
600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

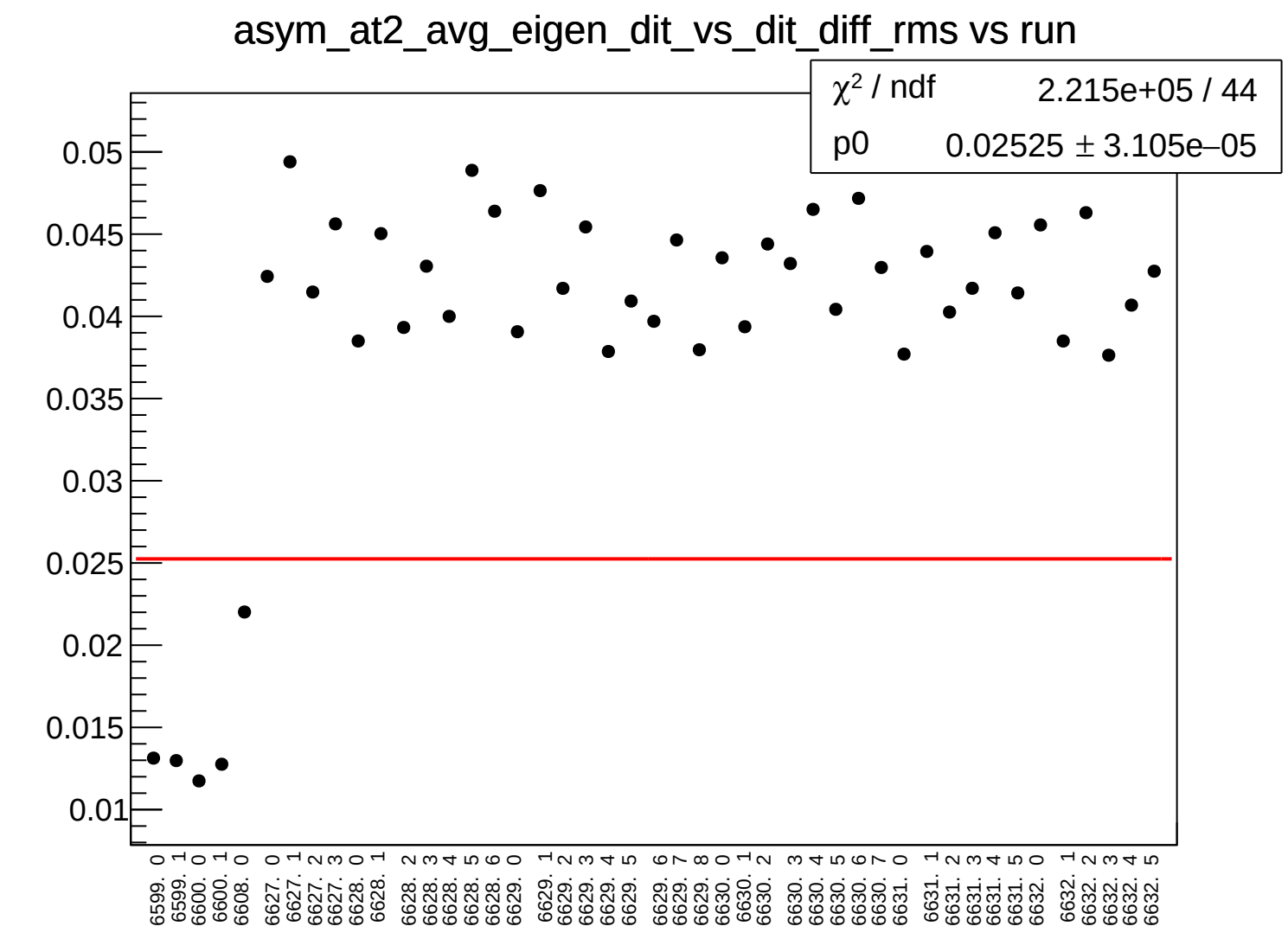

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.05 / 44
p0 2.073 ± 1.256
pull
Entries 45
Mean −371.7
Std Dev 0


pull1D
Entries 45
Mean −0.002697
Std Dev 1.202

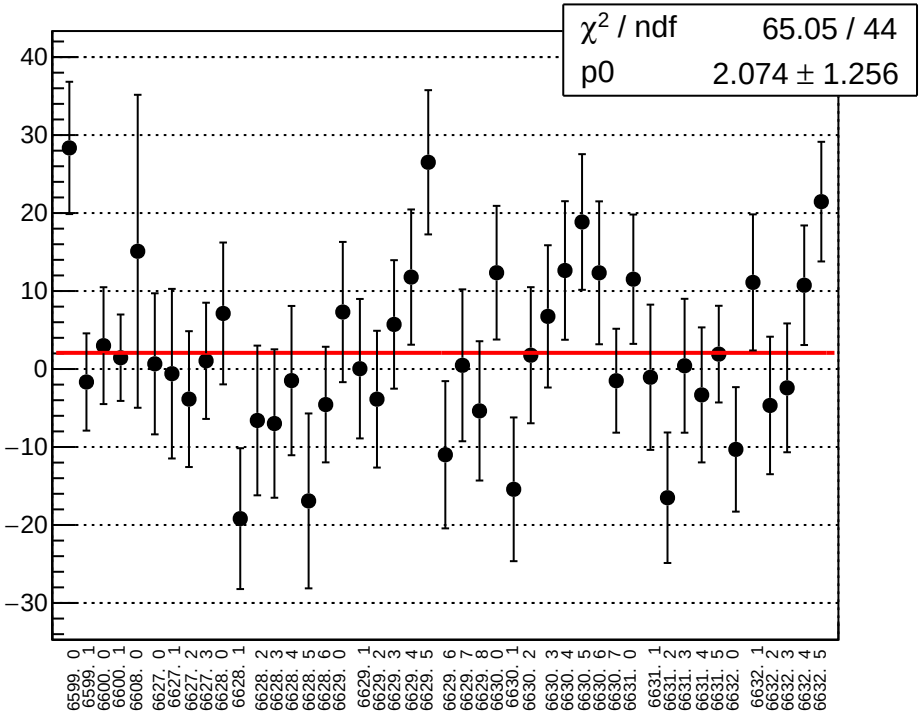

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8642 / 44
p0 830.1 ± 0.888
1500
1400
1300
1200
1100
1000
900
800
700
600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

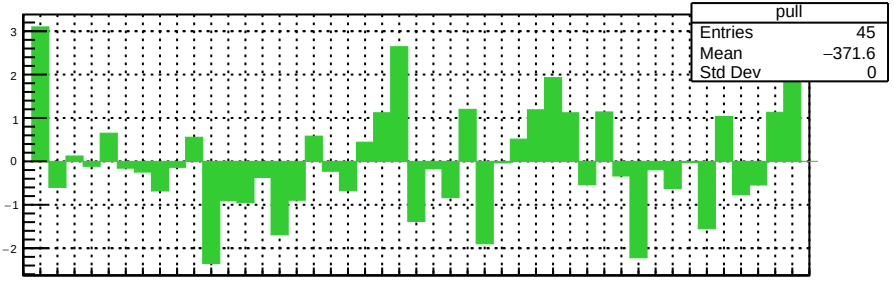

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 35.45 / 44
p0 0.000123 ± 4.392e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 40.64
Std Dev 10.65
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

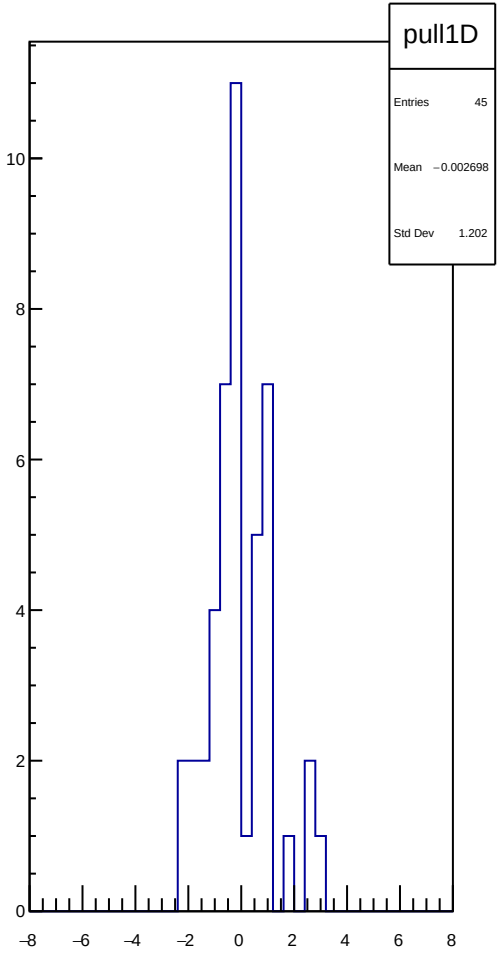

pull1D
Entries 45
Mean −0.03036
Std Dev 0.887
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

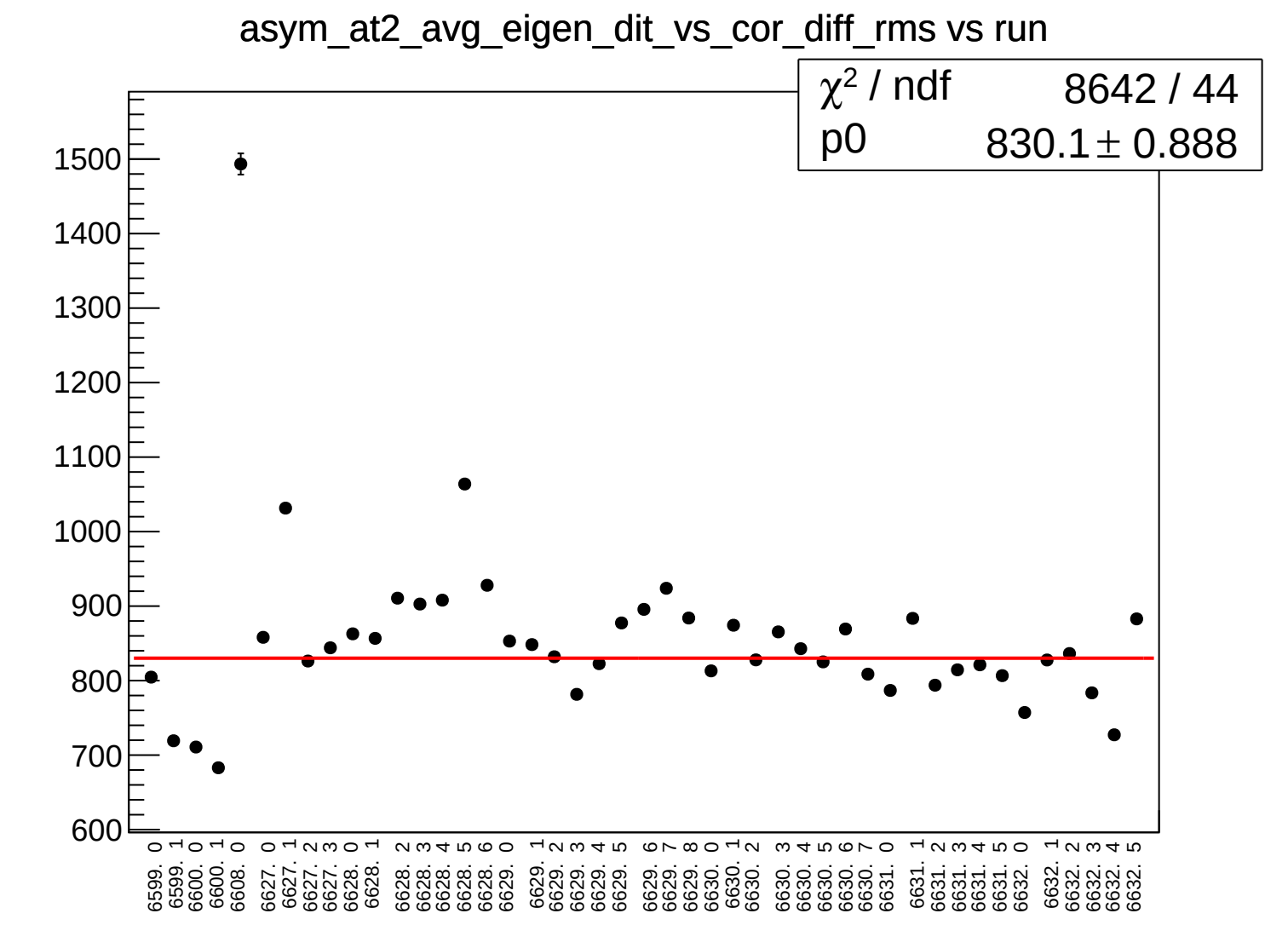

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.215e+05 / 44
p0 0.02525 ± 3.105e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

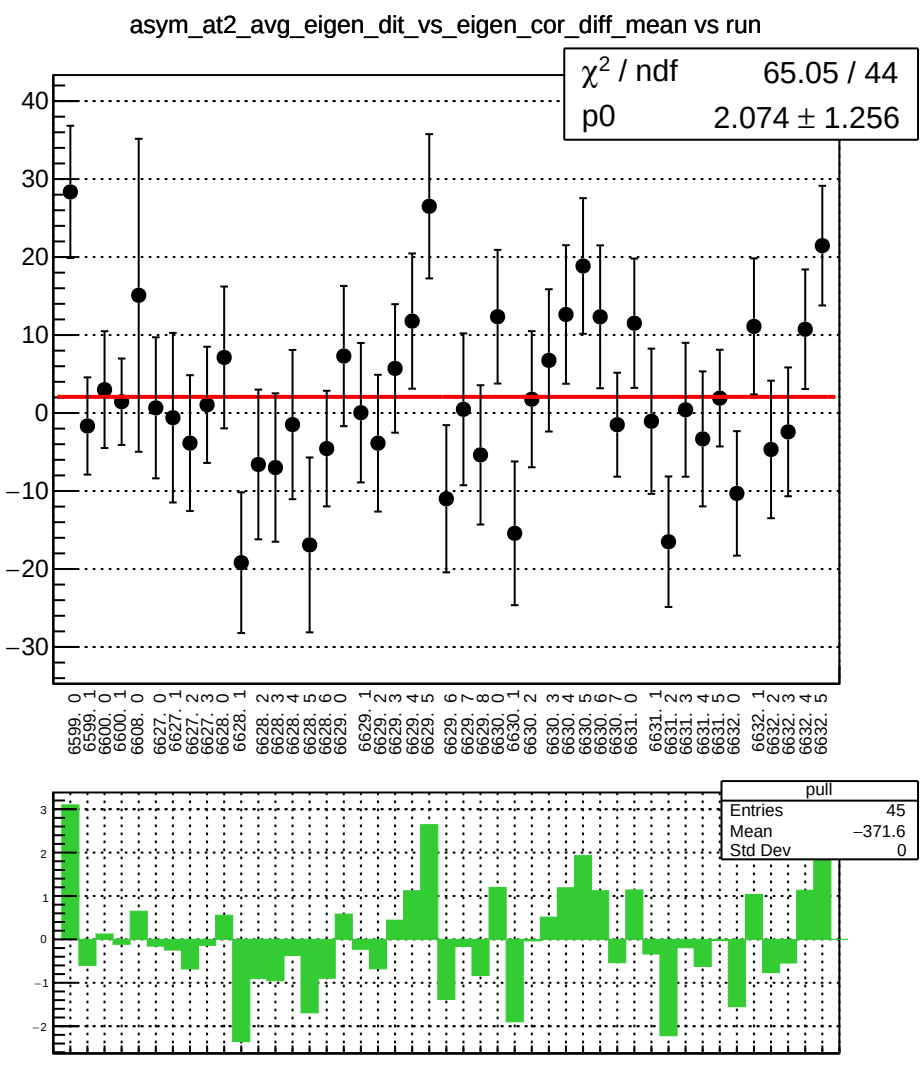
asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run

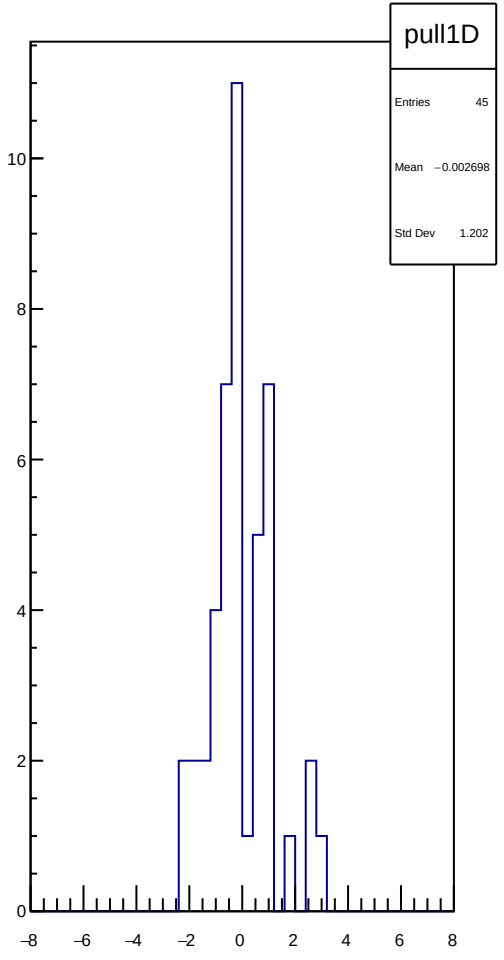


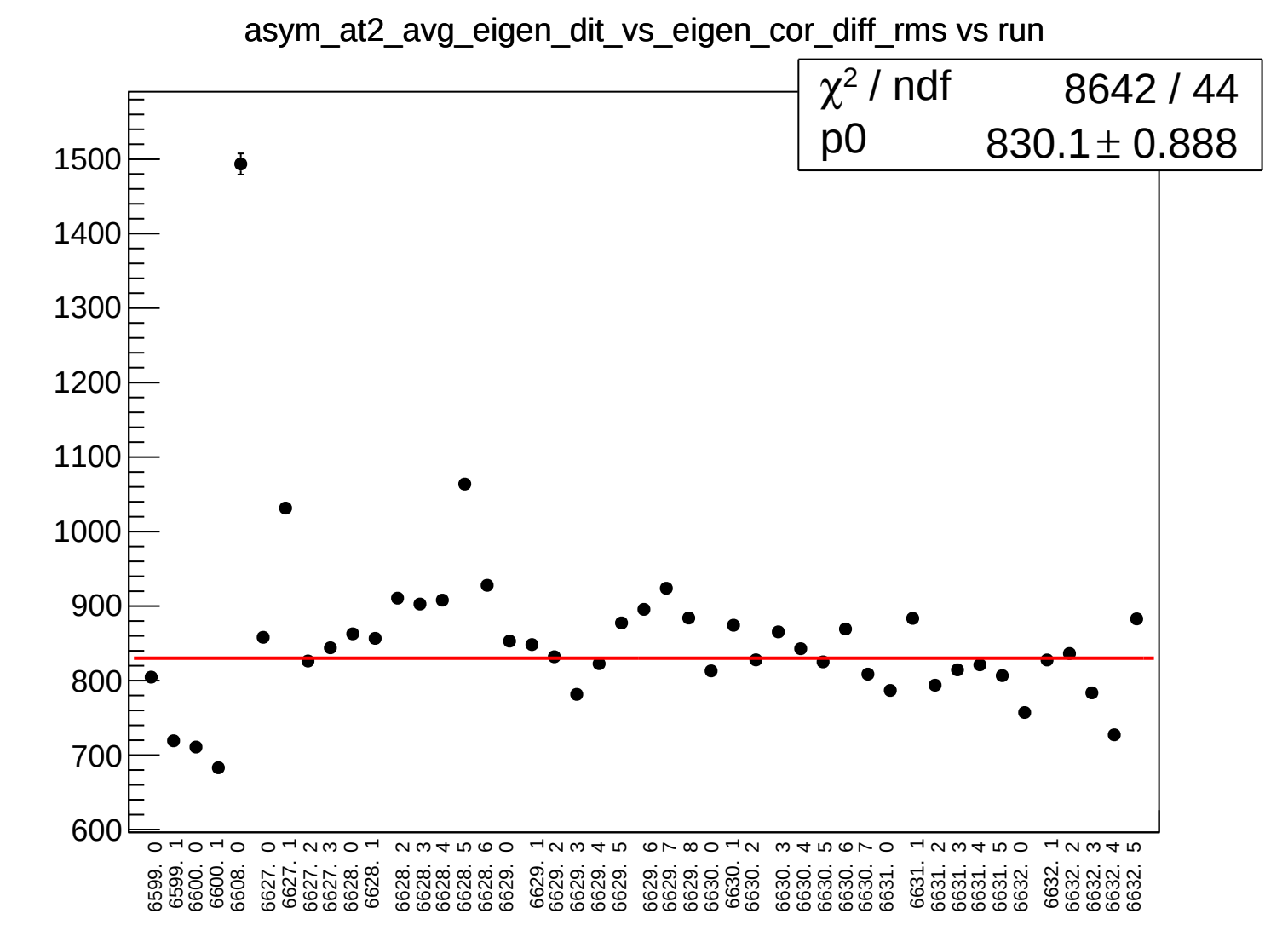



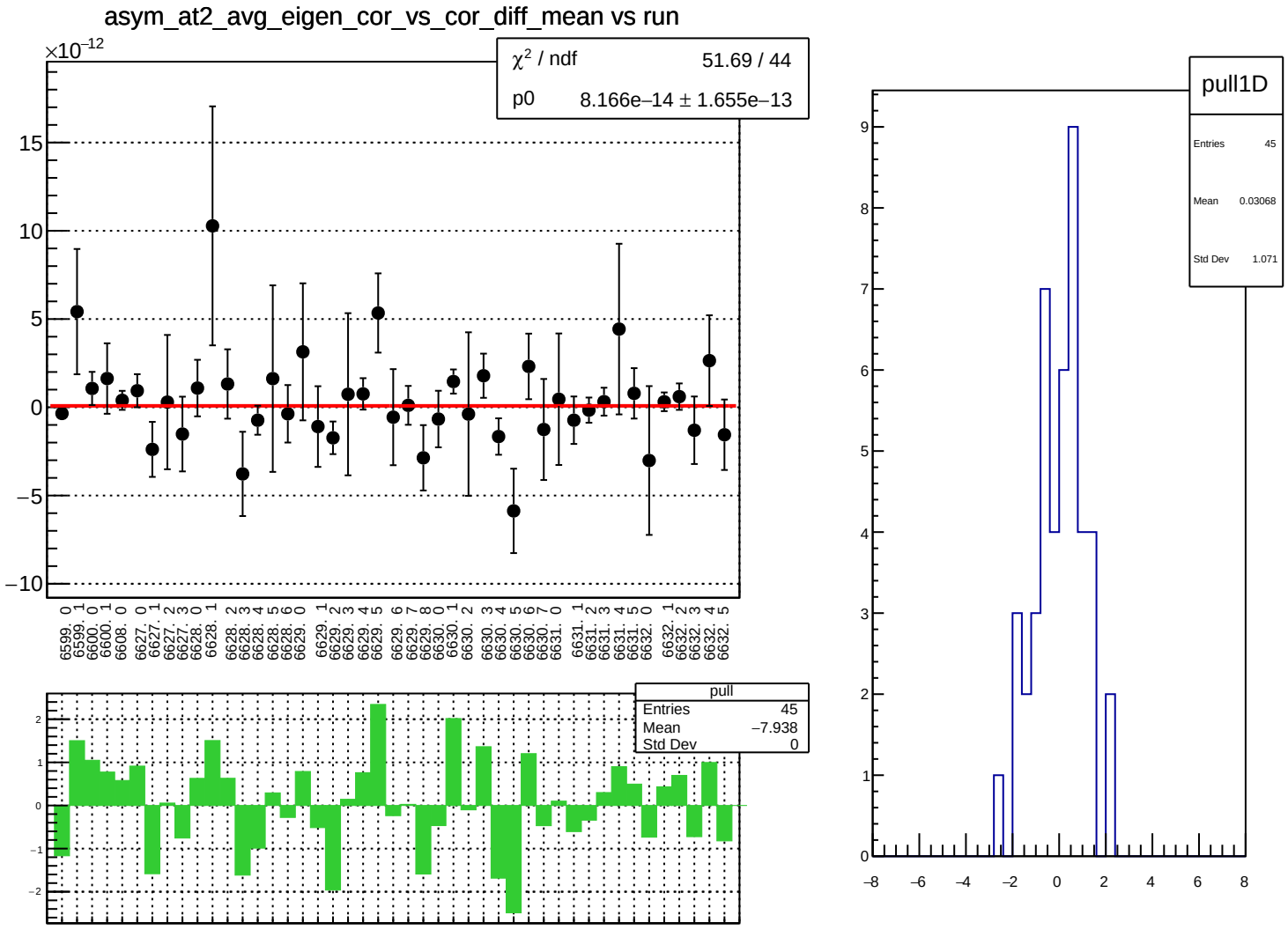



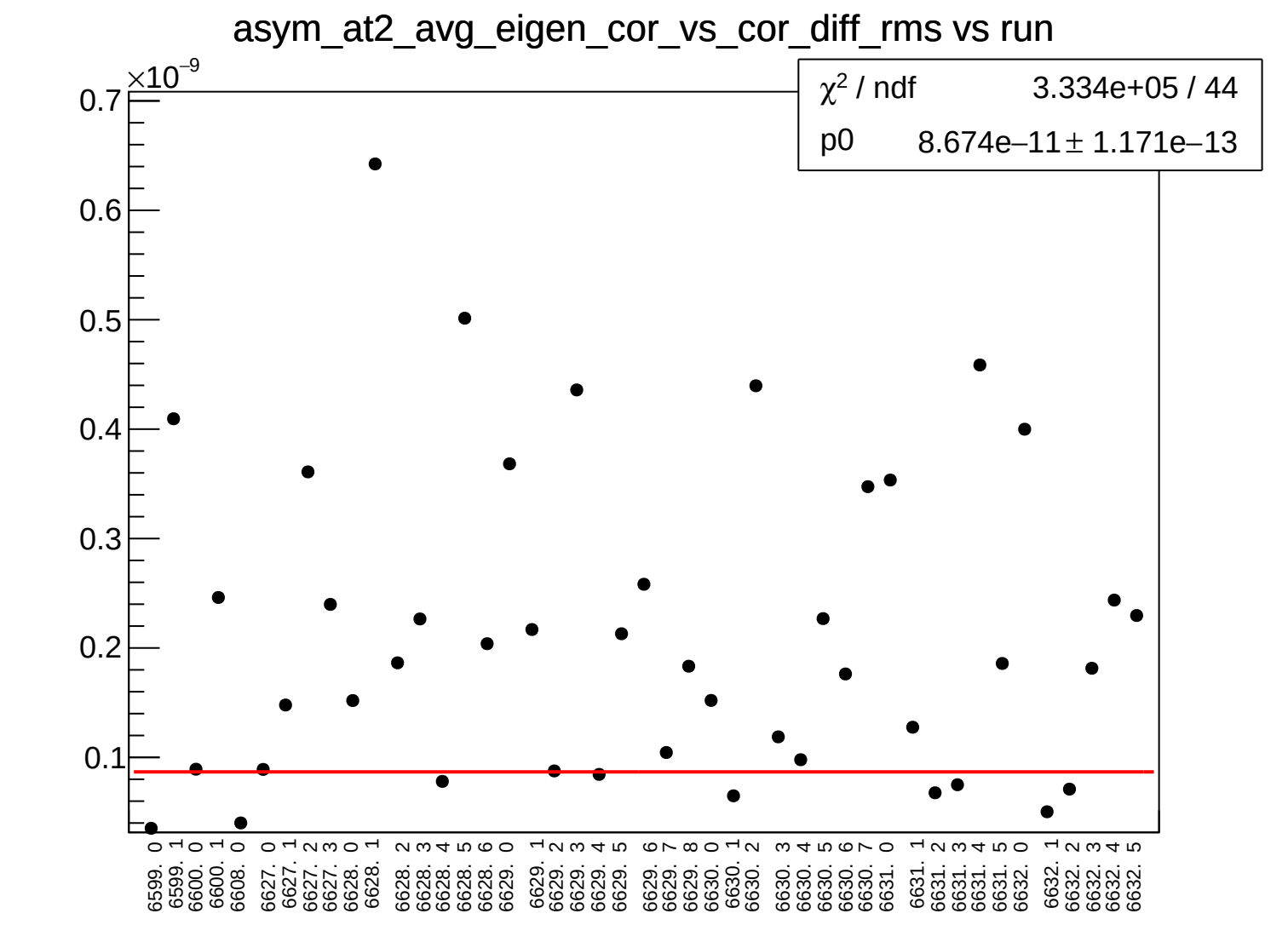

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8642 / 44
p0 830.1 ± 0.888
1500
1400
1300
1200
1100
1000
900
800
700
600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

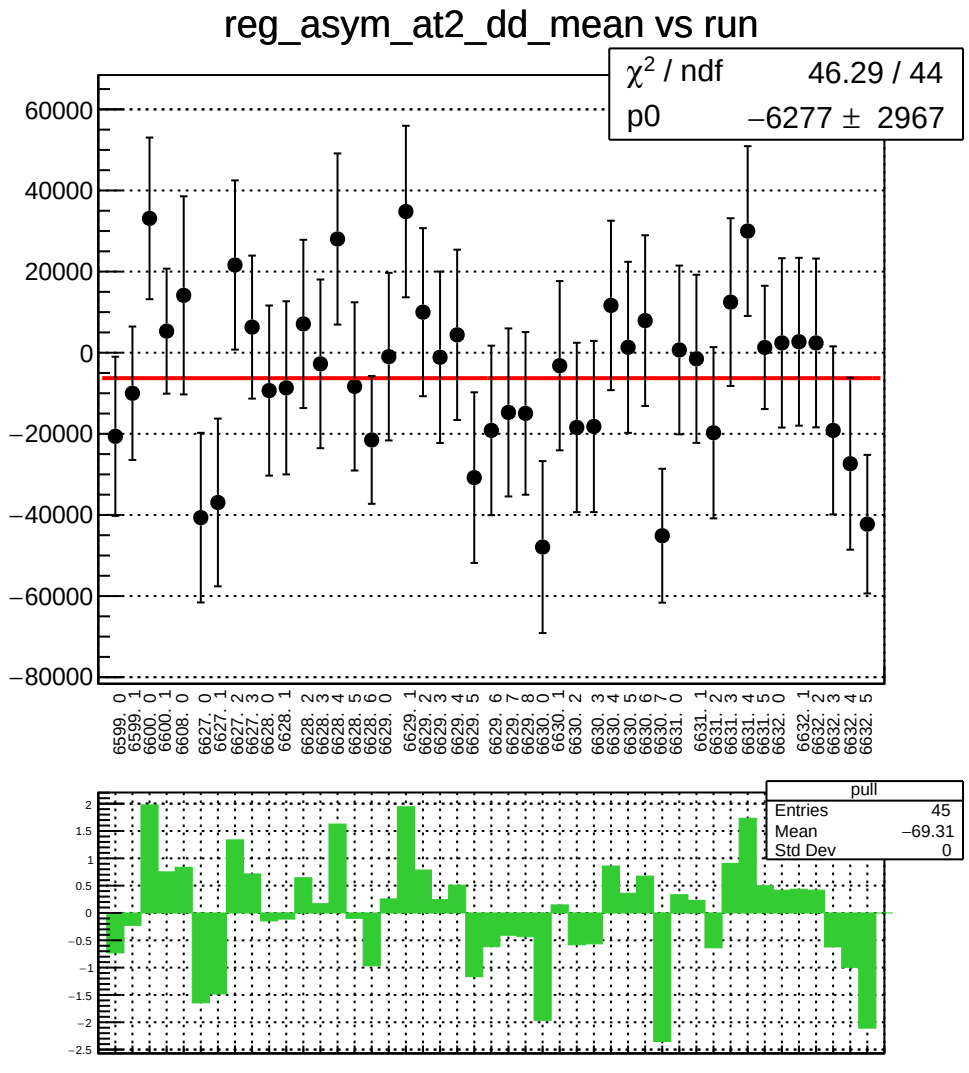

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.05 / 44
p0 2.074 ± 1.256
pull
Entries 45
Mean −371.6
Std Dev 0

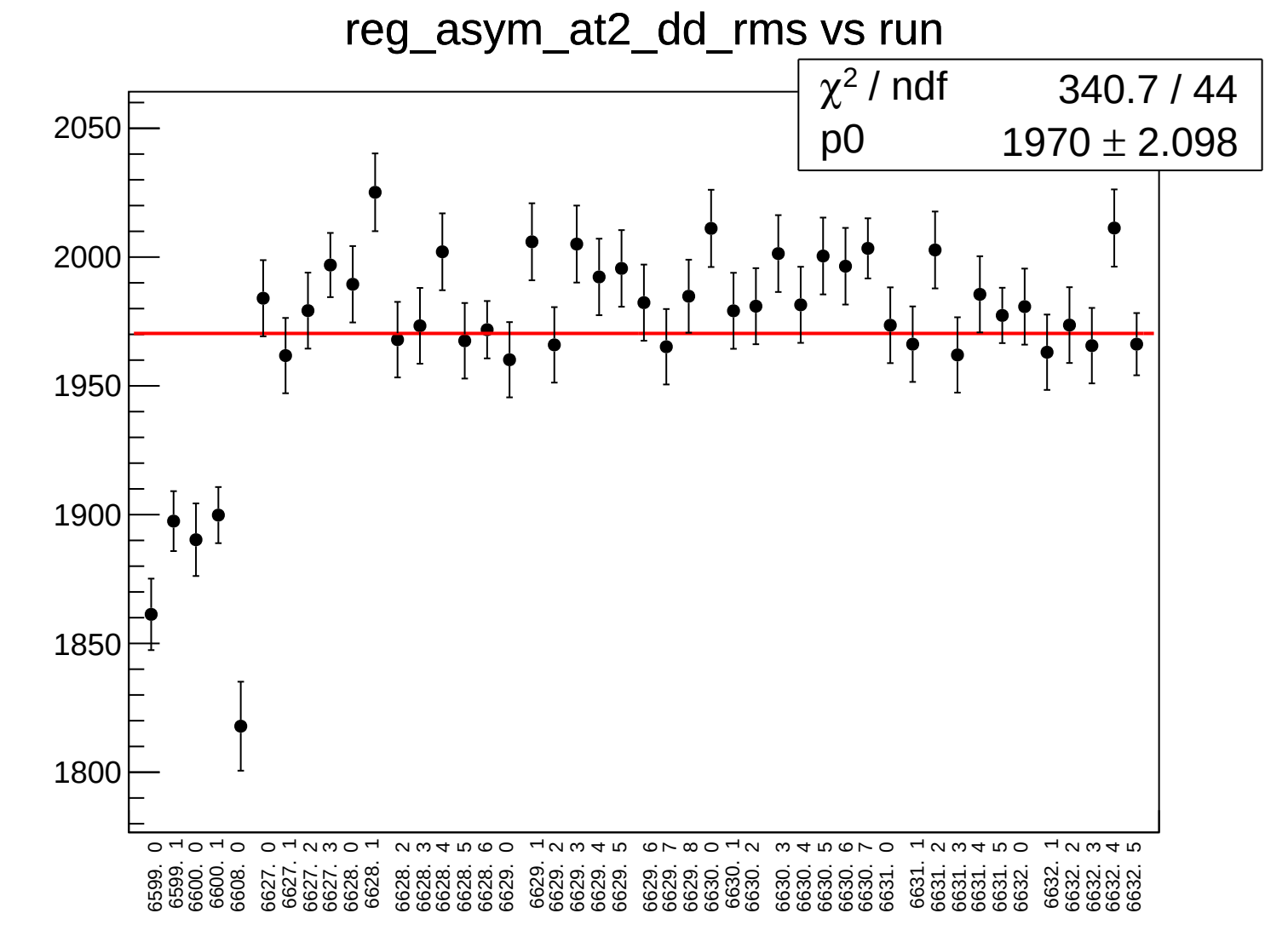

pull1D
Entries 45
Mean −0.002698
Std Dev 1.202

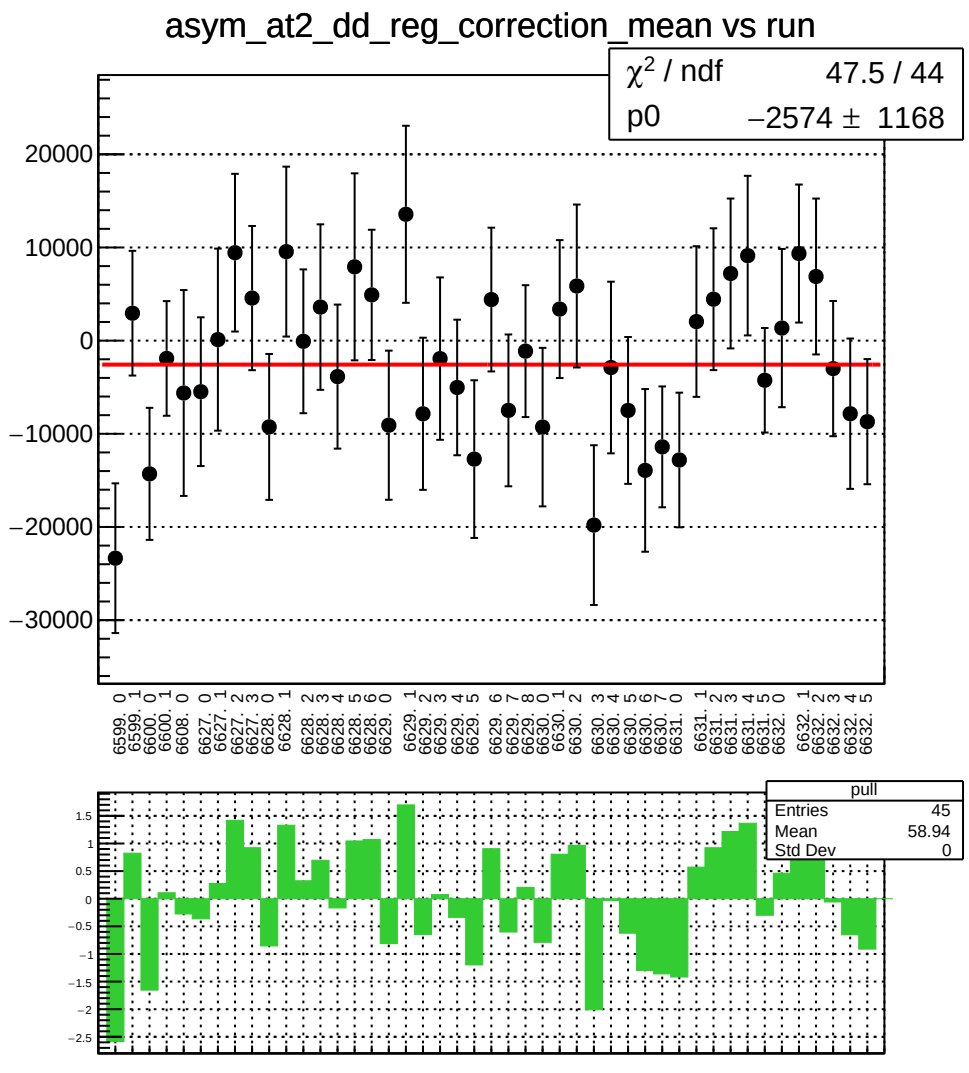

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8642 / 44
p0 830.1 ± 0.888
1500
1400
1300
1200
1100
1000
900
800
700
600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

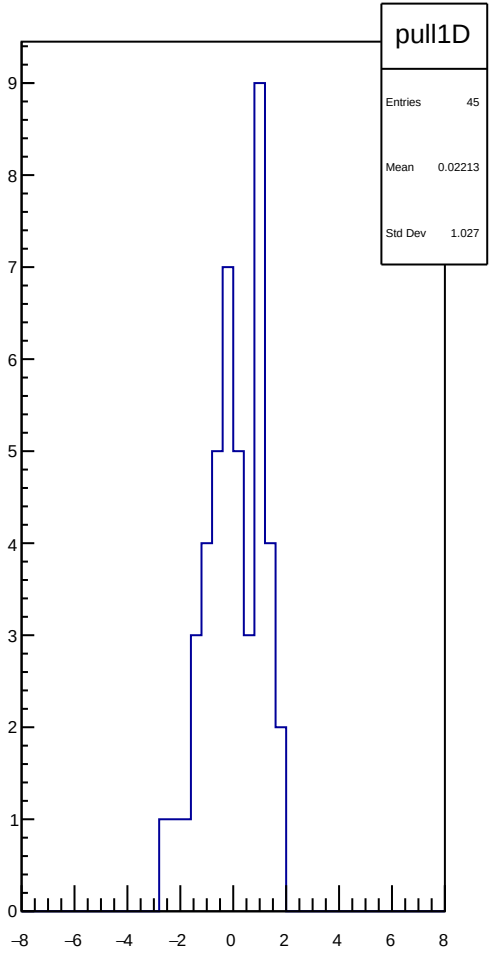

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 51.69 / 44
p0 8.166e−14 ± 1.655e−13
15
10
5
0
−5
−10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −7.938
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.03068
Std Dev 1.071
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

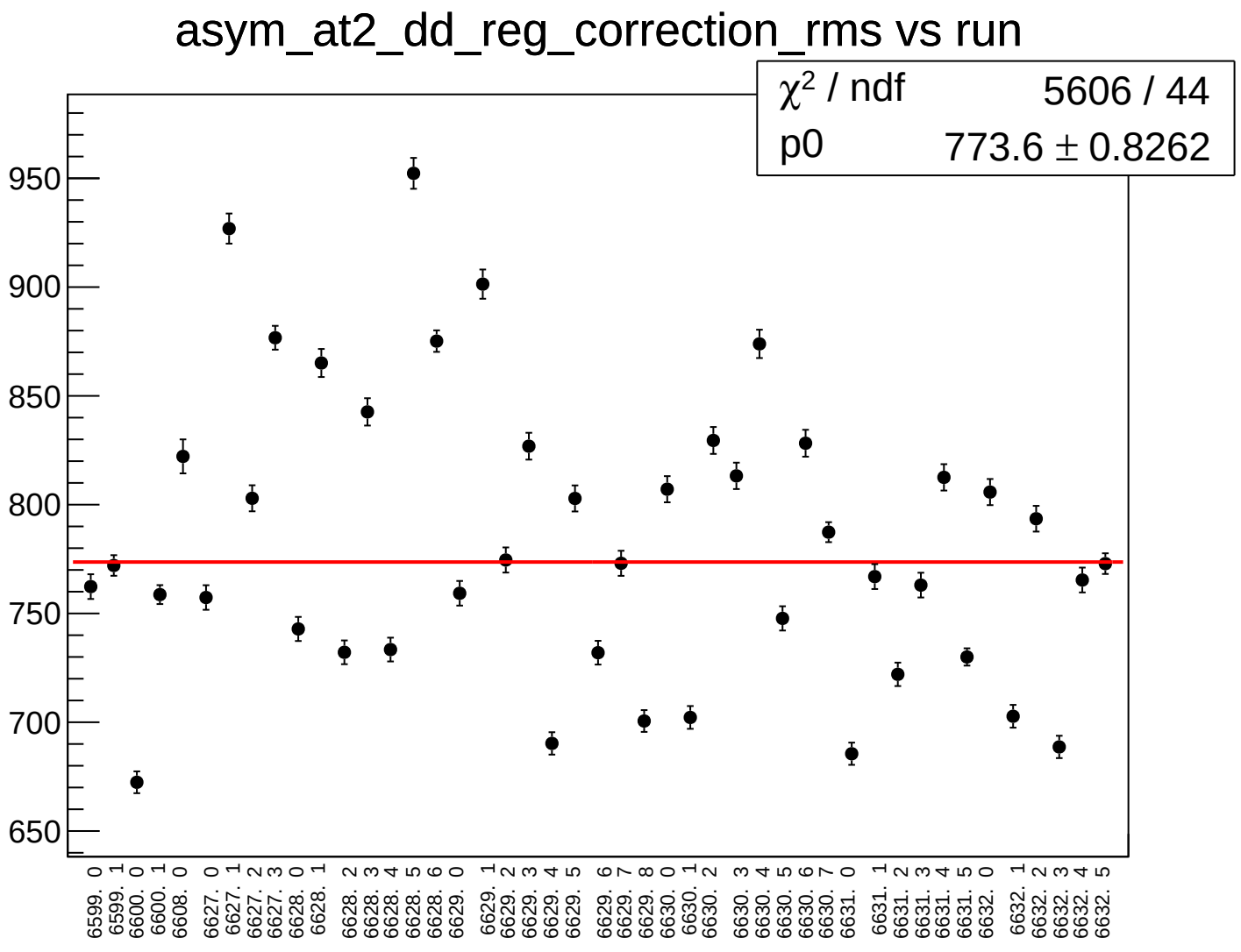

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.334e+05 / 44
p0 8.674e−11 ± 1.171e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


reg_asym_at2_dd_mean vs run
χ² / ndf 46.29 / 44
p0 −6277 ± 2967
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −69.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.02119
Std Dev 1.014
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at2_dd_rms vs run
χ² / ndf 340.7 / 44
p0 1970 ± 2.098
2050
2000
1950
1900
1850
1800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_at2_dd_reg_correction_mean vs run
χ² / ndf 47.5 / 44
p0 −2574 ± 1168
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 58.94
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.02213
Std Dev 1.027
9
8
7
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 5606 / 44
p0 773.6 ± 0.8262
950
900
850
800
750
700
650
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
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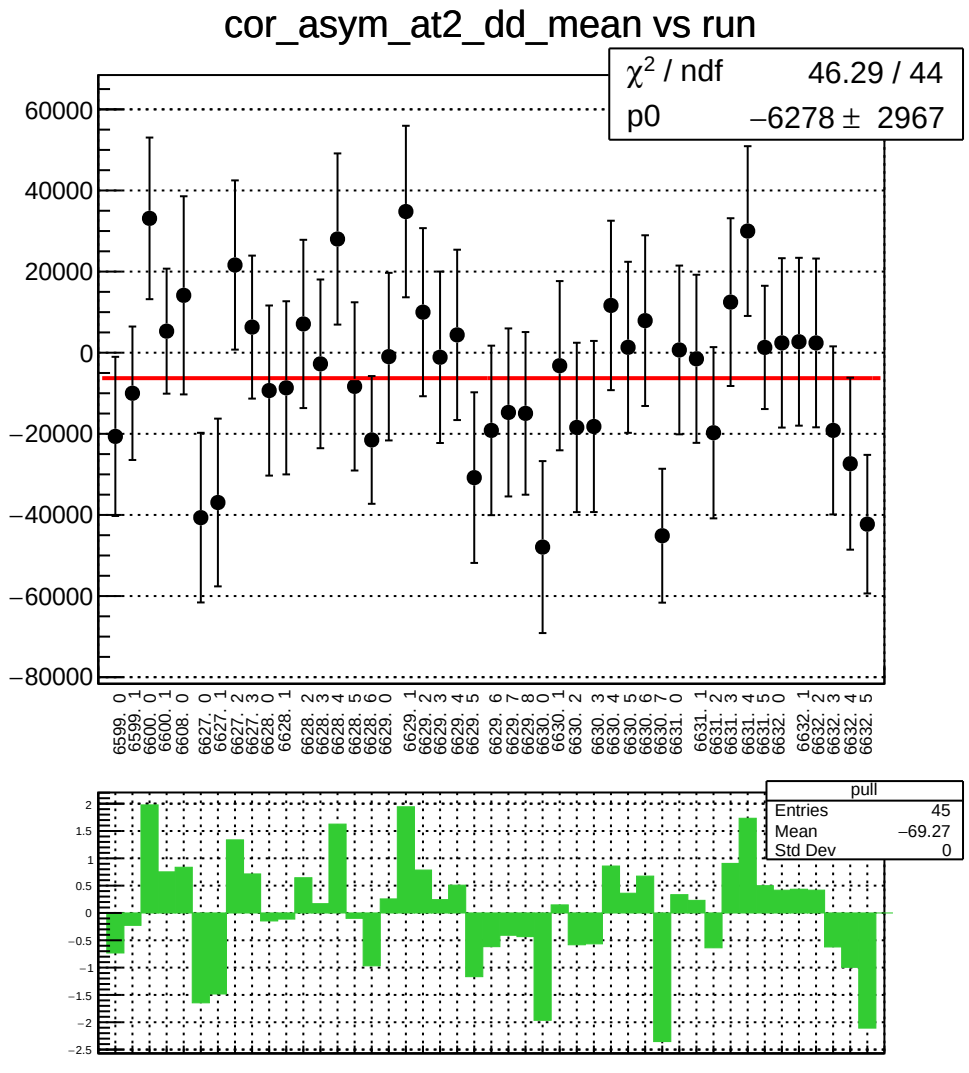
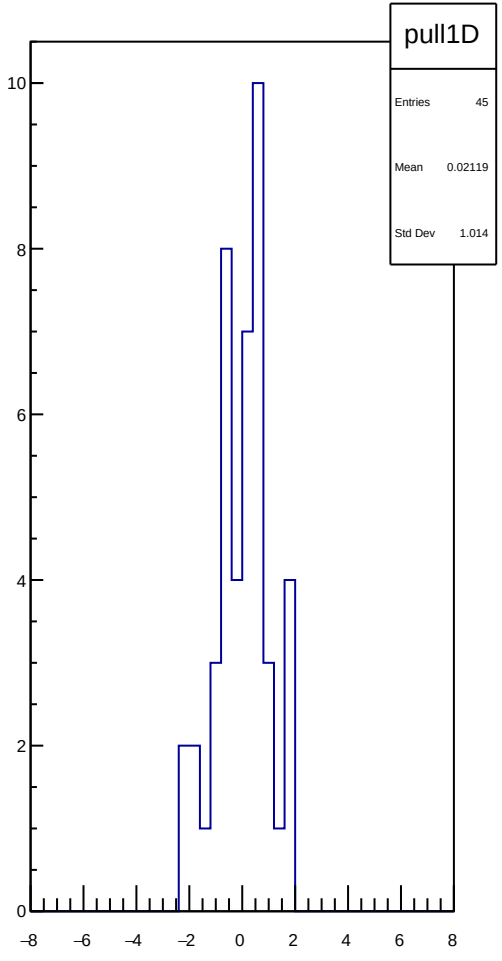
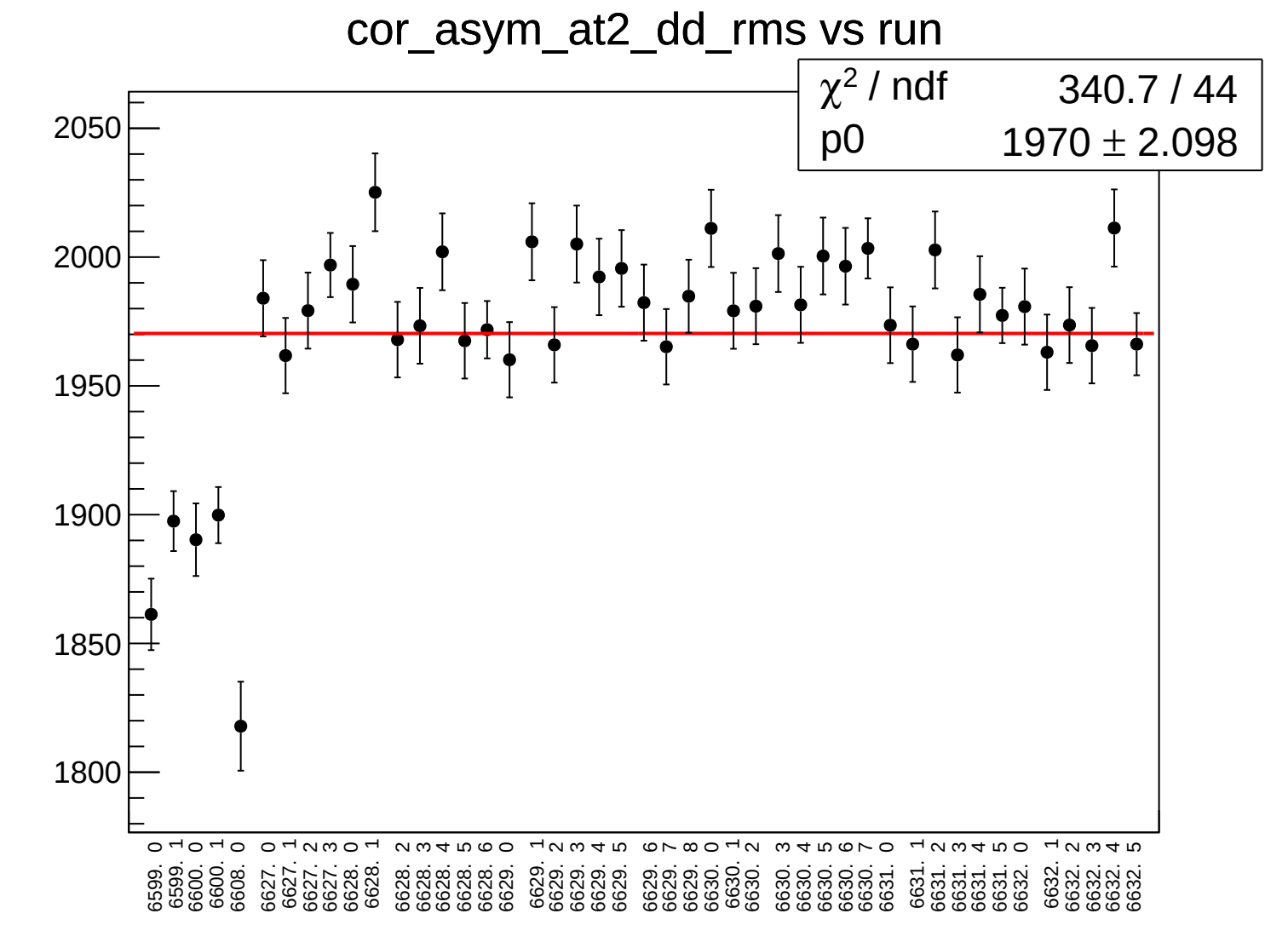
6632. 5


cor_asym_at2_dd_mean vs run
χ² / ndf 46.29 / 44
p0 −6278 ± 2967
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −69.27
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.02119
Std Dev 1.014
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_at2_dd_rms vs run
χ² / ndf 340.7 / 44
p0 1970 ± 2.098
2050
2000
1950
1900
1850
1800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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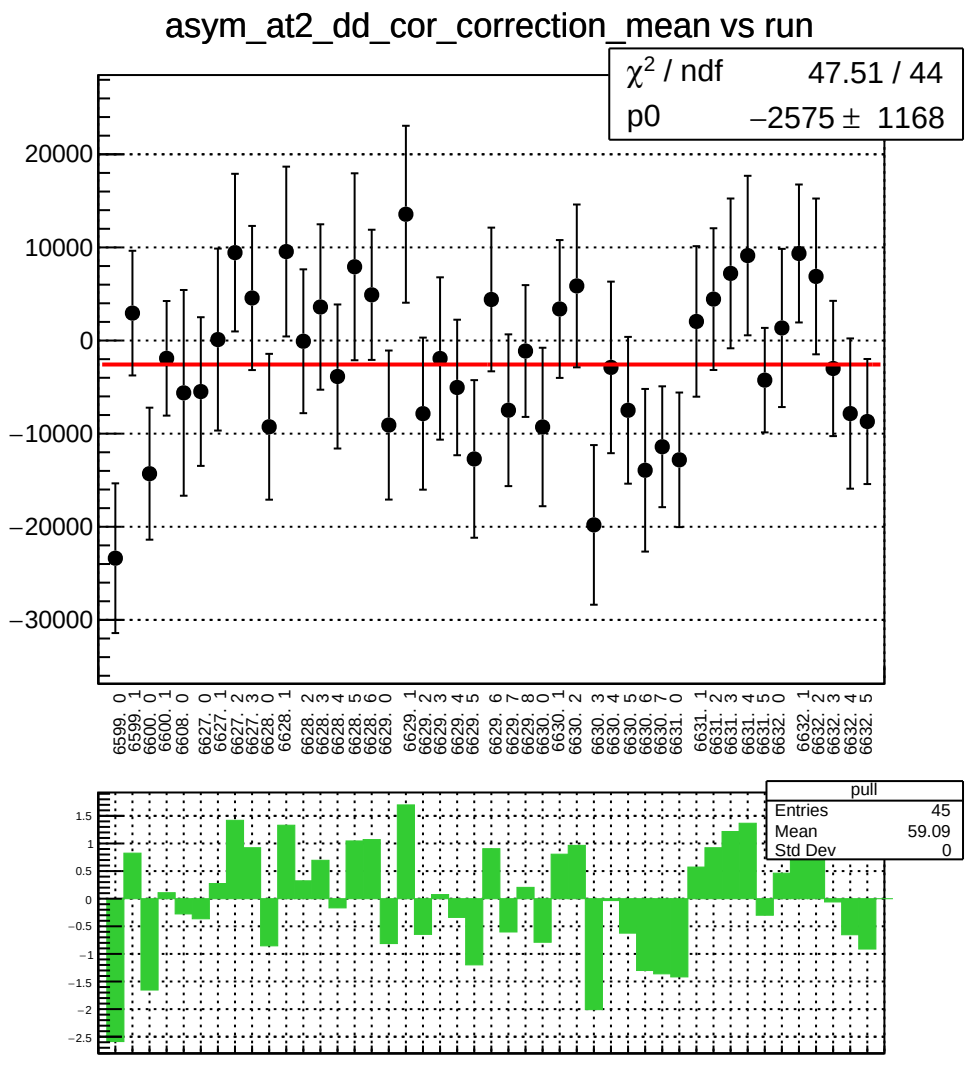
asym_at2_dd_cor_correction_mean vs run
χ² / ndf 47.51 / 44
p0 −2575 ± 1168
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 59.09
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.02208
Std Dev 1.027
9
8
7
6
5
4
3
2
1
0
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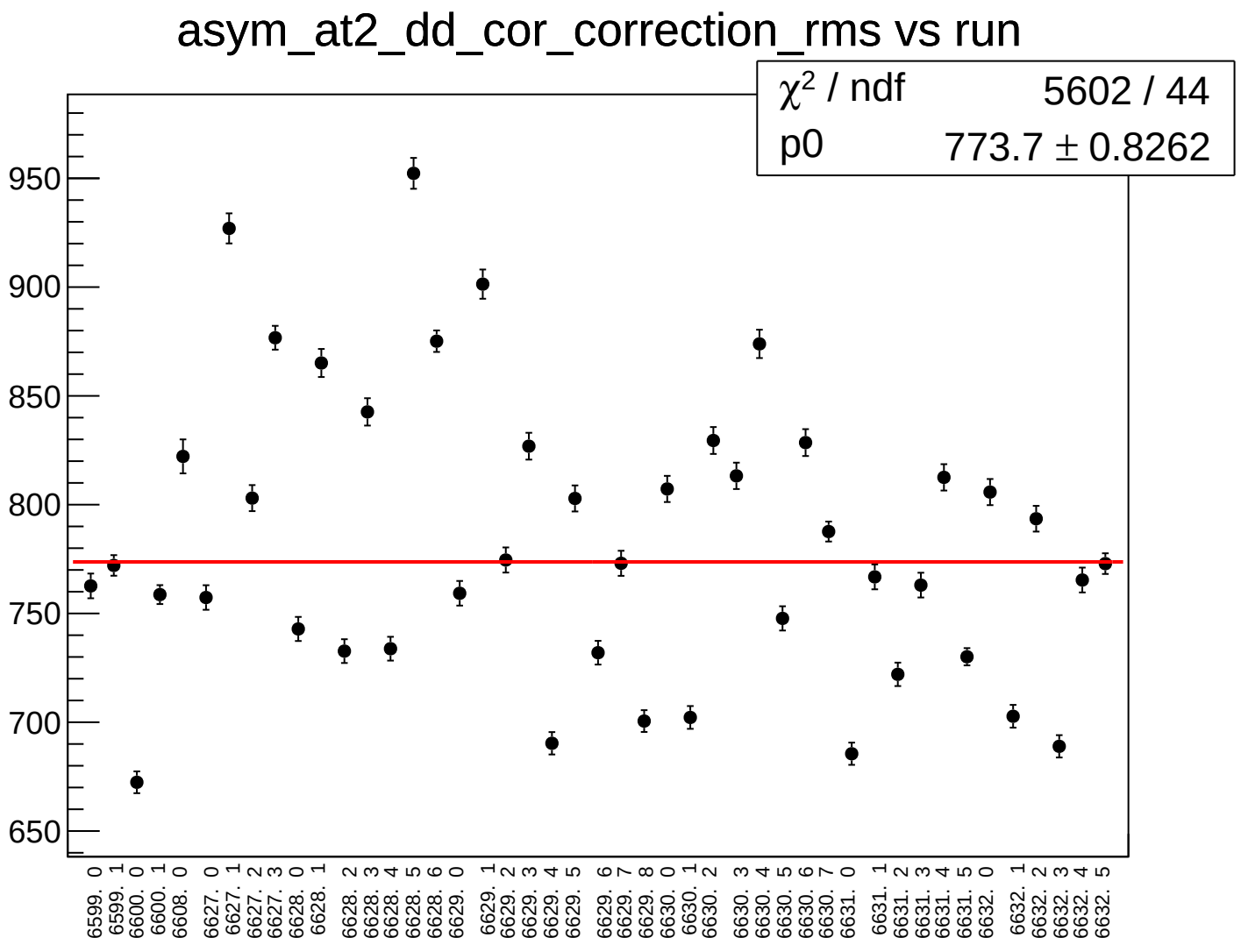
−6
−4
−2
0
2
4
6
8


asym_at2_dd_cor_correction_rms vs run
χ² / ndf 5602 / 44
p0 773.7 ± 0.8262
950
900
850
800
750
700
650
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
6632. 0
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6632. 2
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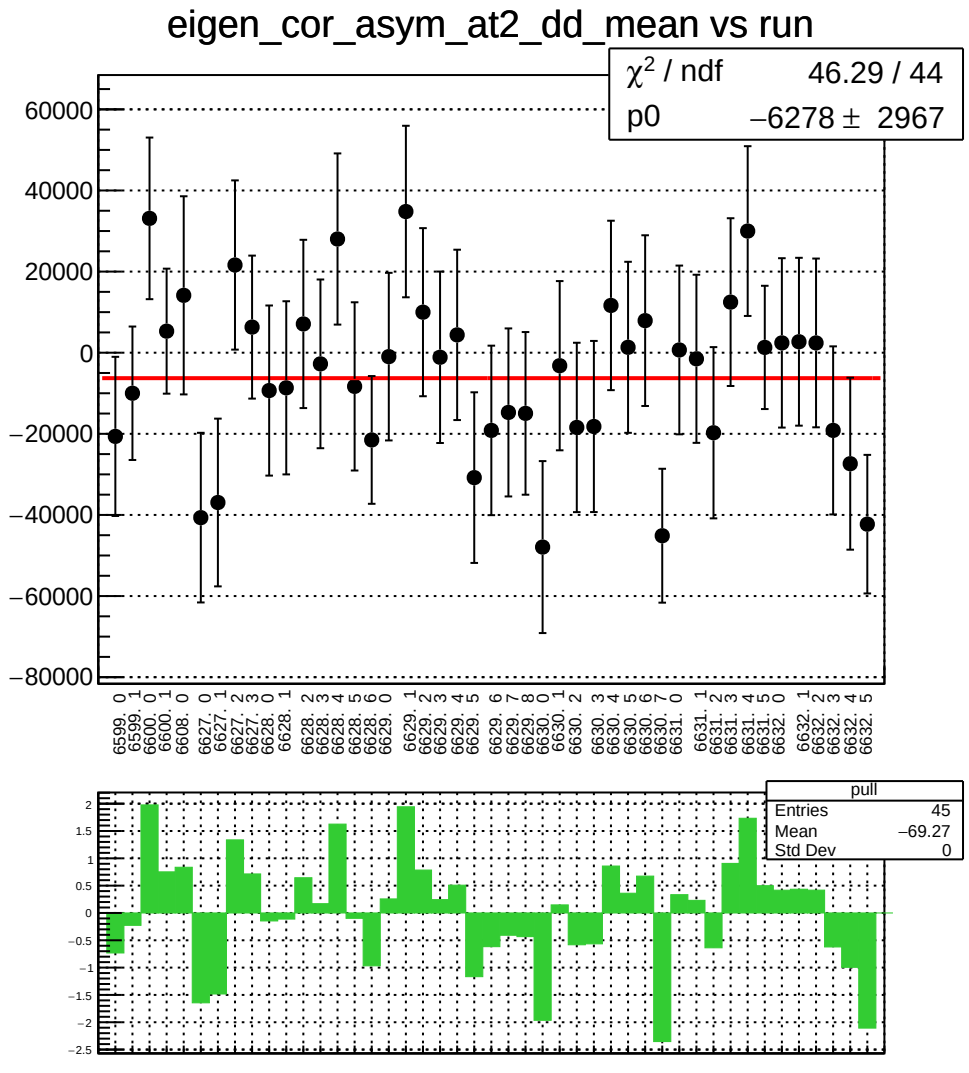
6632. 4
6632. 5


eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 46.29 / 44
p0 −6278 ± 2967
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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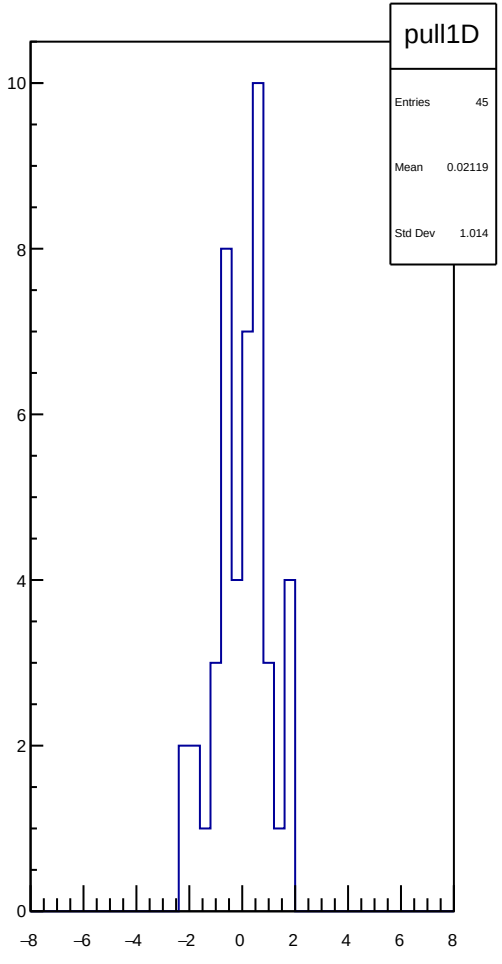
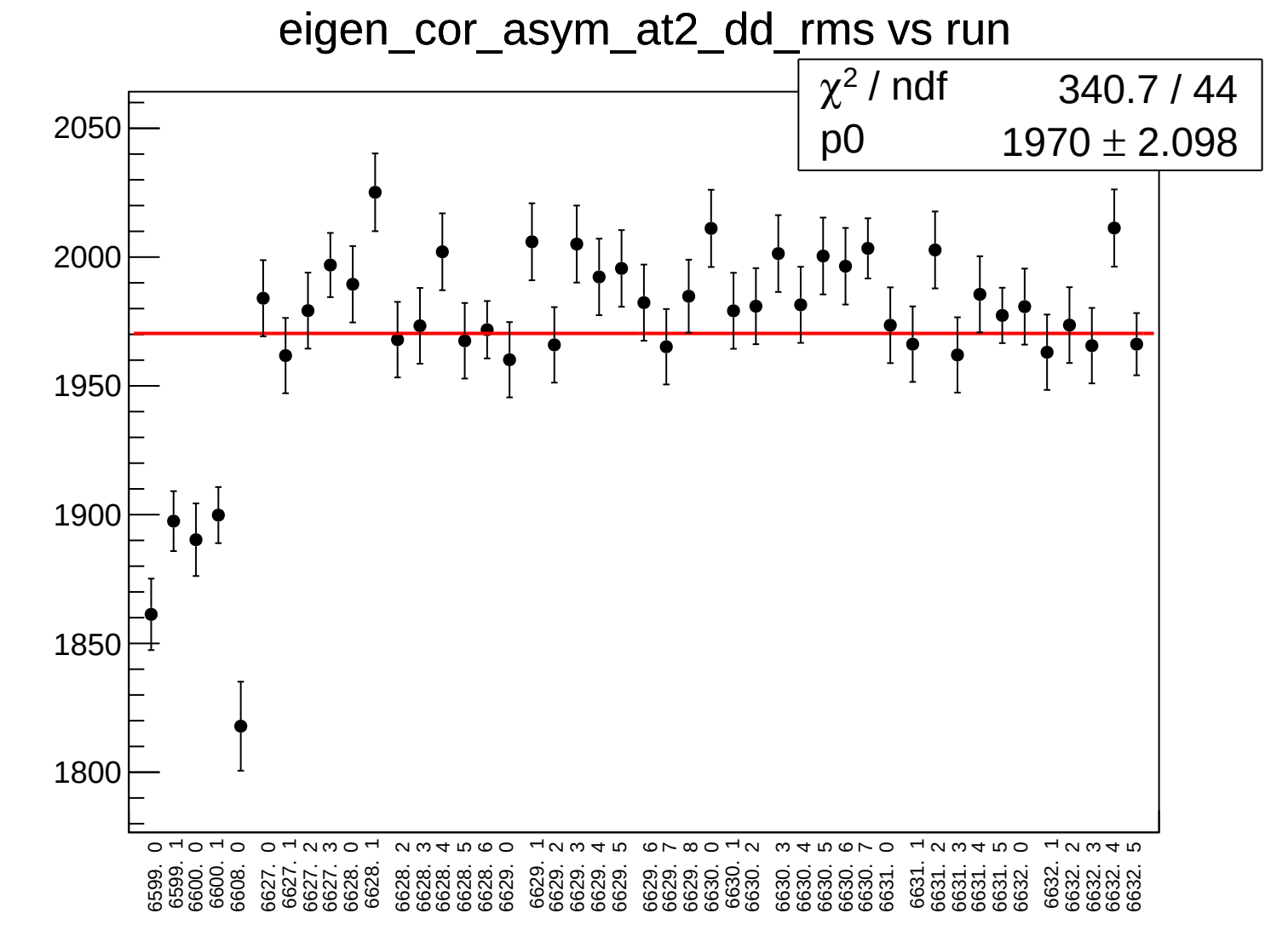
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −69.27
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.02119
Std Dev 1.014
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 340.7 / 44
p0 1970 ± 2.098
2050
2000
1950
1900
1850
1800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
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6629. 1
6629. 2
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 5
6630. 6
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6631. 1
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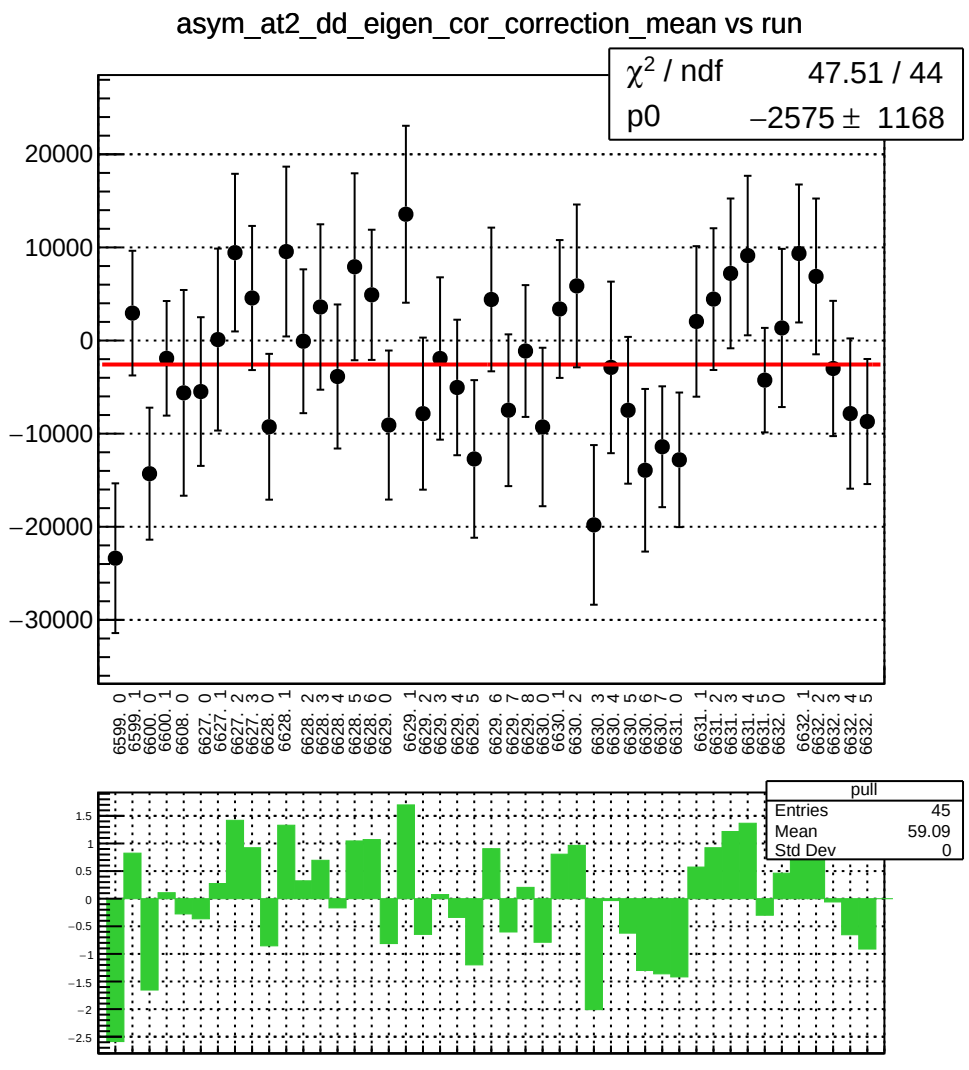
asym_at2_dd_eigen_cor_correction_mean vs run
χ² / ndf 47.51 / 44
p0 −2575 ± 1168
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6630. 2
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6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 59.09
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.02208
Std Dev 1.027
9
8
7
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5
4
3
2
1
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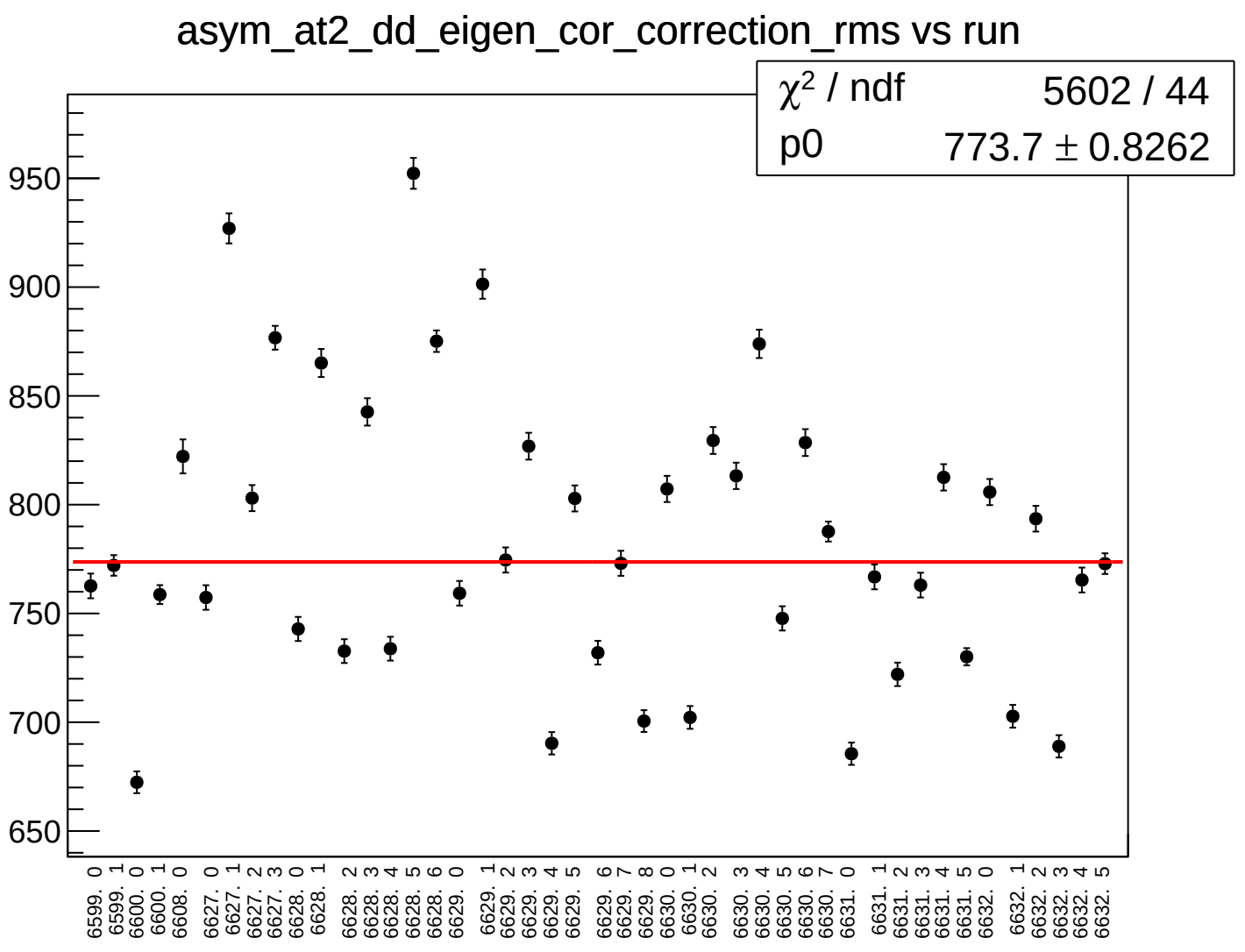
6
8


asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 5602 / 44
p0 773.7 ± 0.8262
950
900
850
800
750
700
650
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 6
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6630. 1
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6631. 0
6631. 1
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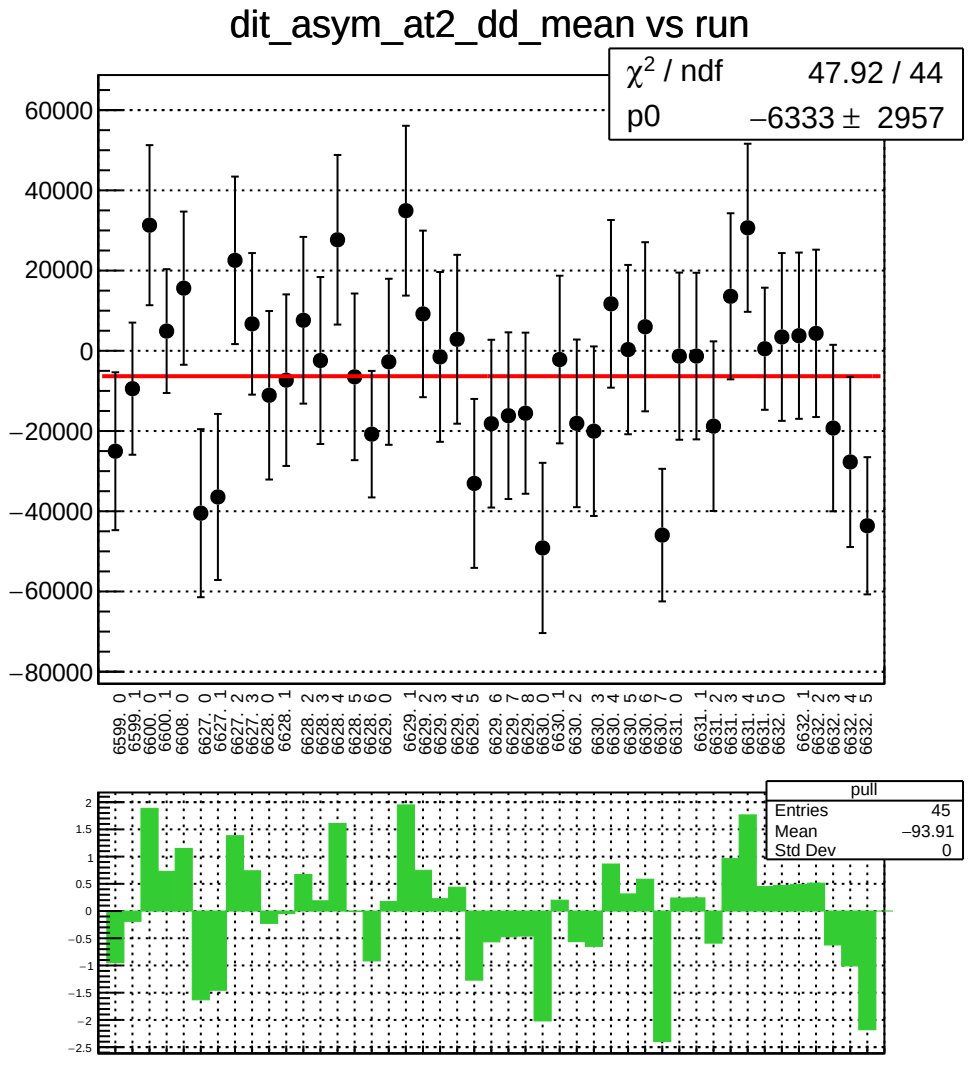
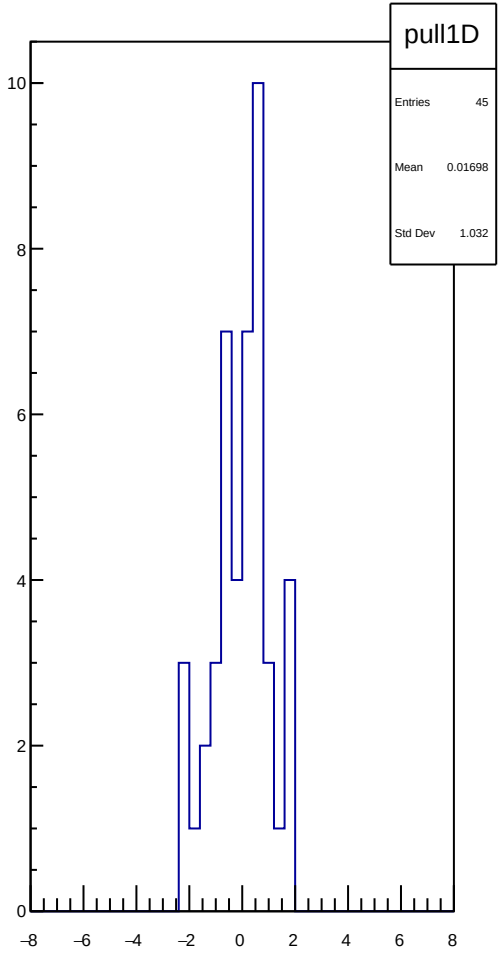
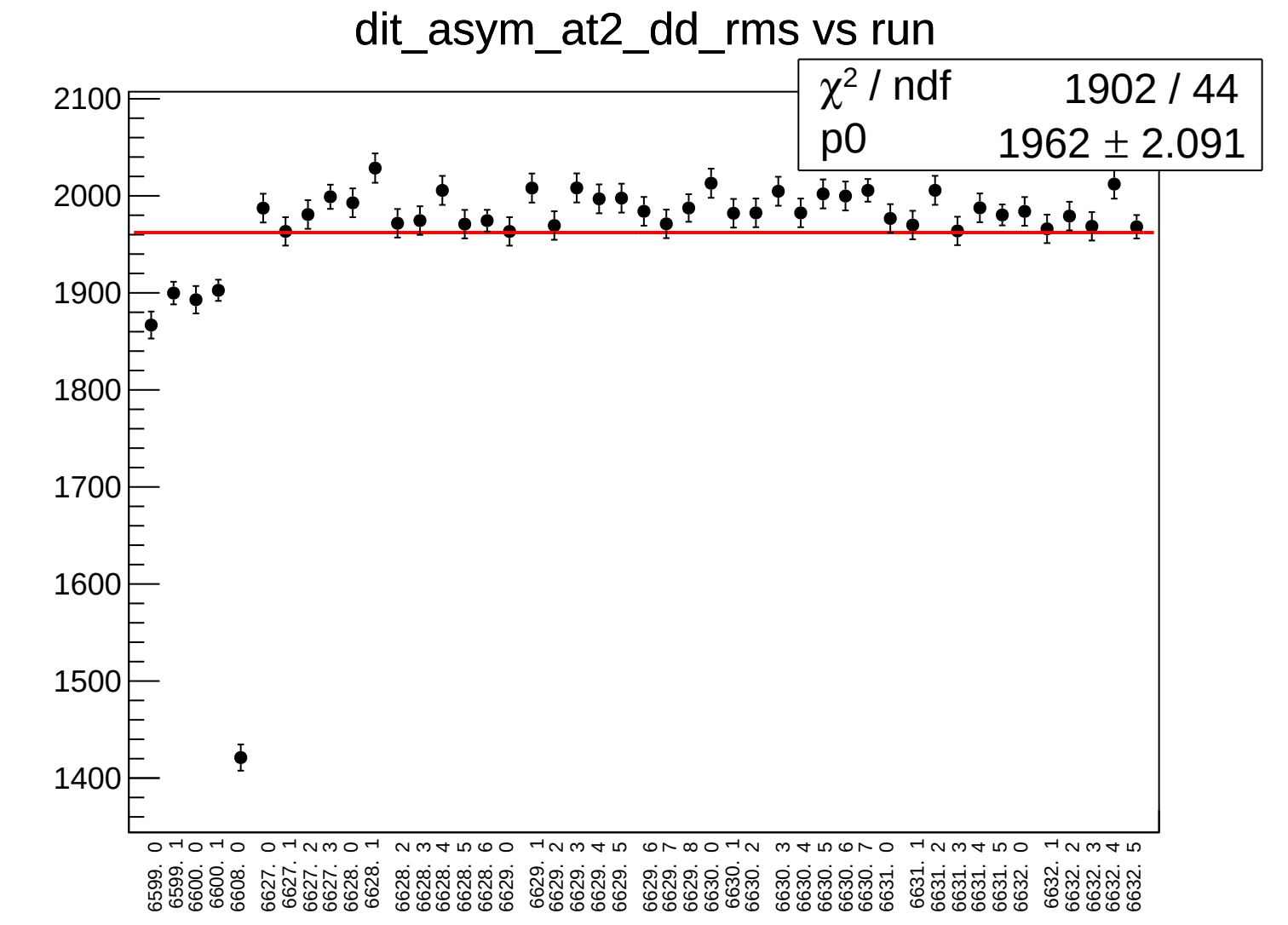
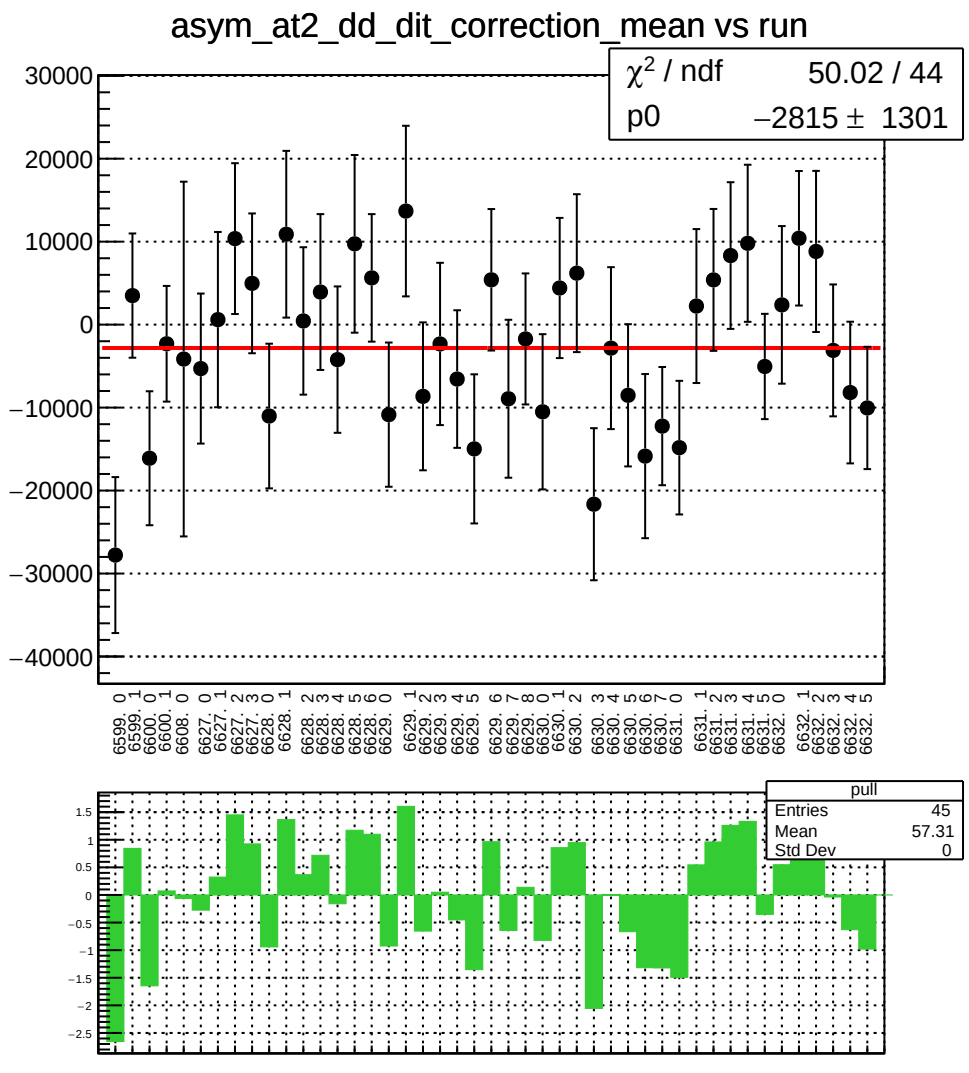
6632. 5


dit_asym_at2_dd_mean vs run
χ² / ndf 47.92 / 44
p0 −6333 ± 2957
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −93.91
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.01698
Std Dev 1.032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_at2_dd_rms vs run
χ² / ndf 1902 / 44
p0 1962 ± 2.091
2100
2000
1900
1800
1700
1600
1500
1400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_at2_dd_dit_correction_mean vs run
χ² / ndf 50.02 / 44
p0 −2815 ± 1301
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6630. 1
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6630. 6
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 57.31
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.02077
Std Dev 1.054
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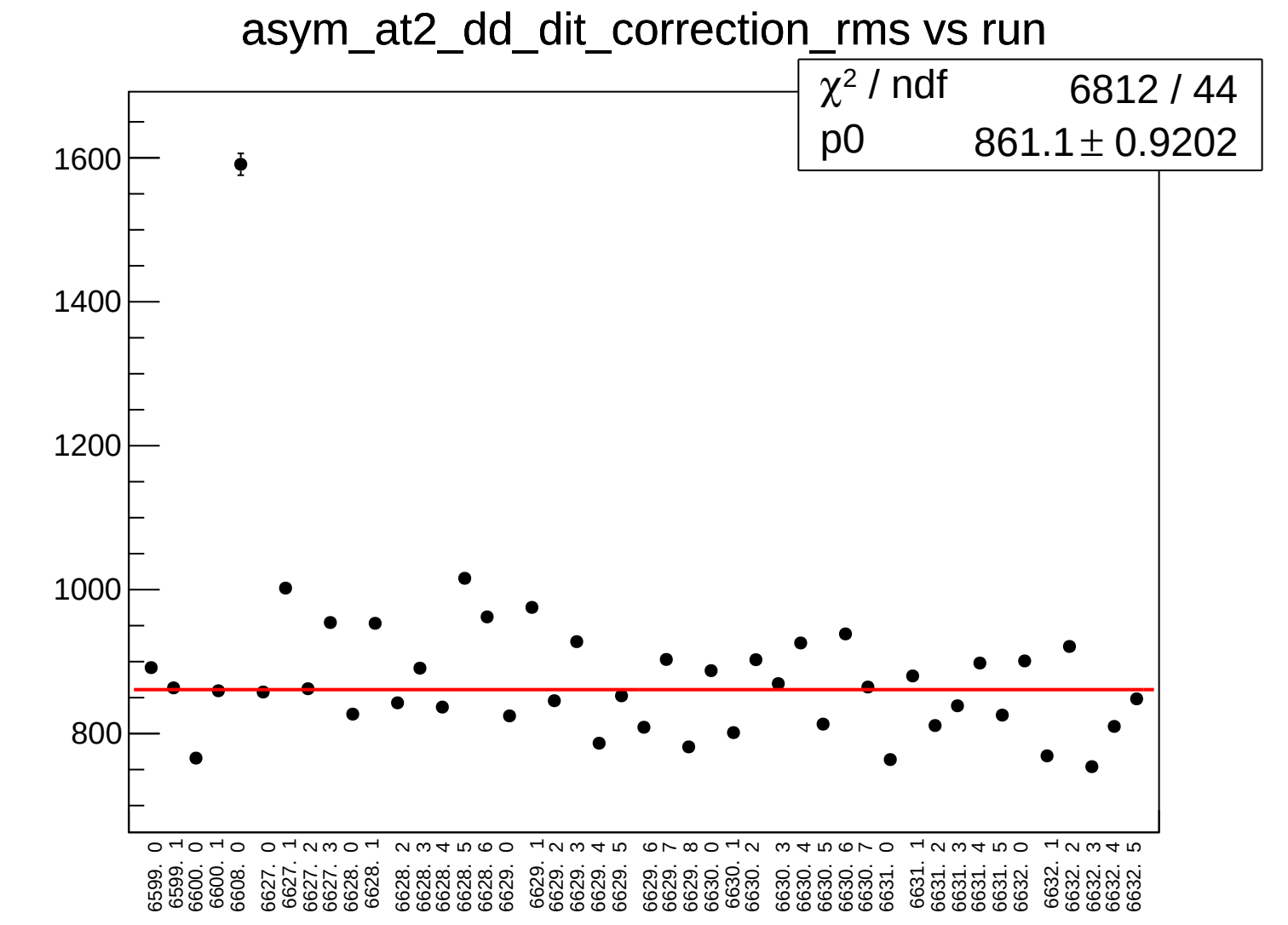
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_dd_dit_correction_rms vs run
χ² / ndf 6812 / 44
p0 861.1 ± 0.9202
1600
1400
1200
1000
800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
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6628. 6
6629. 0
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6629. 7
6629. 8
6630. 0
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6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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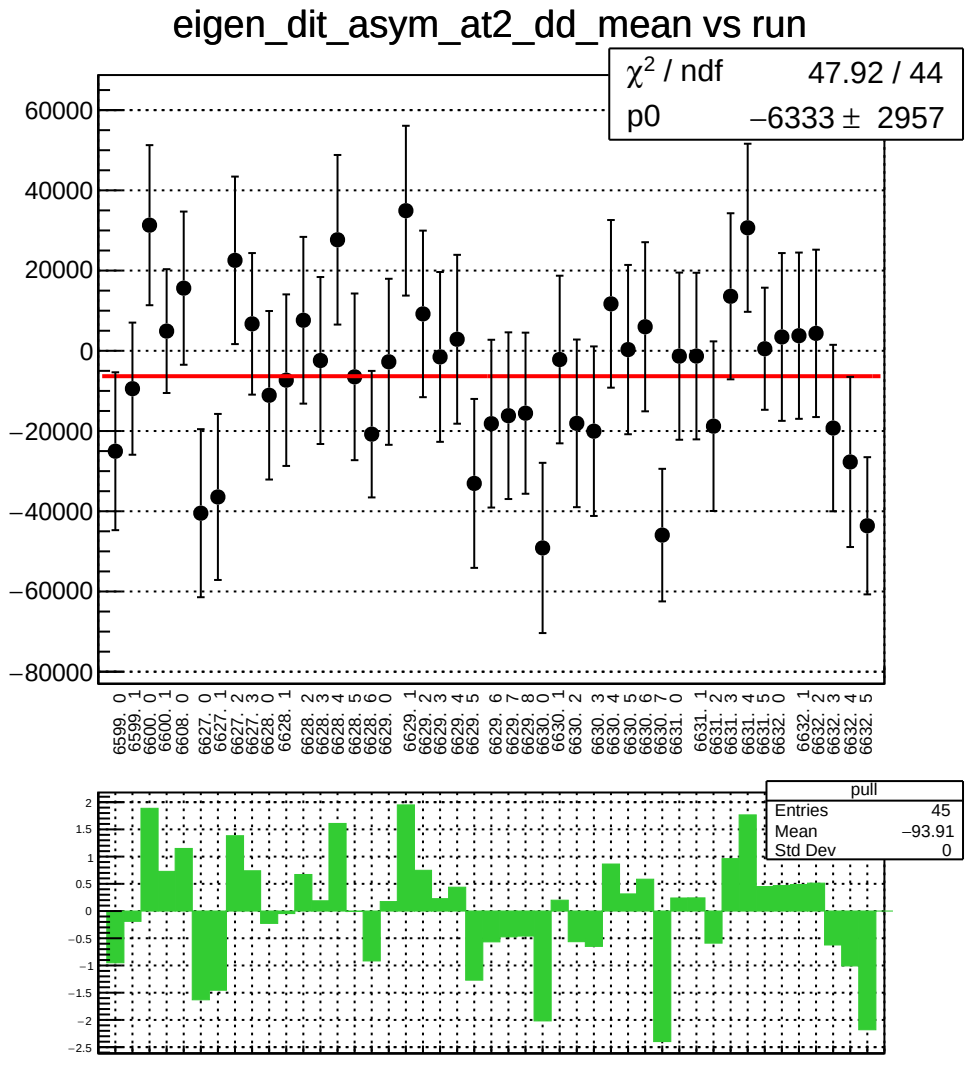
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 47.92 / 44
p0 −6333 ± 2957
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
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6628. 6
6629. 0
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6629. 2
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6631. 2
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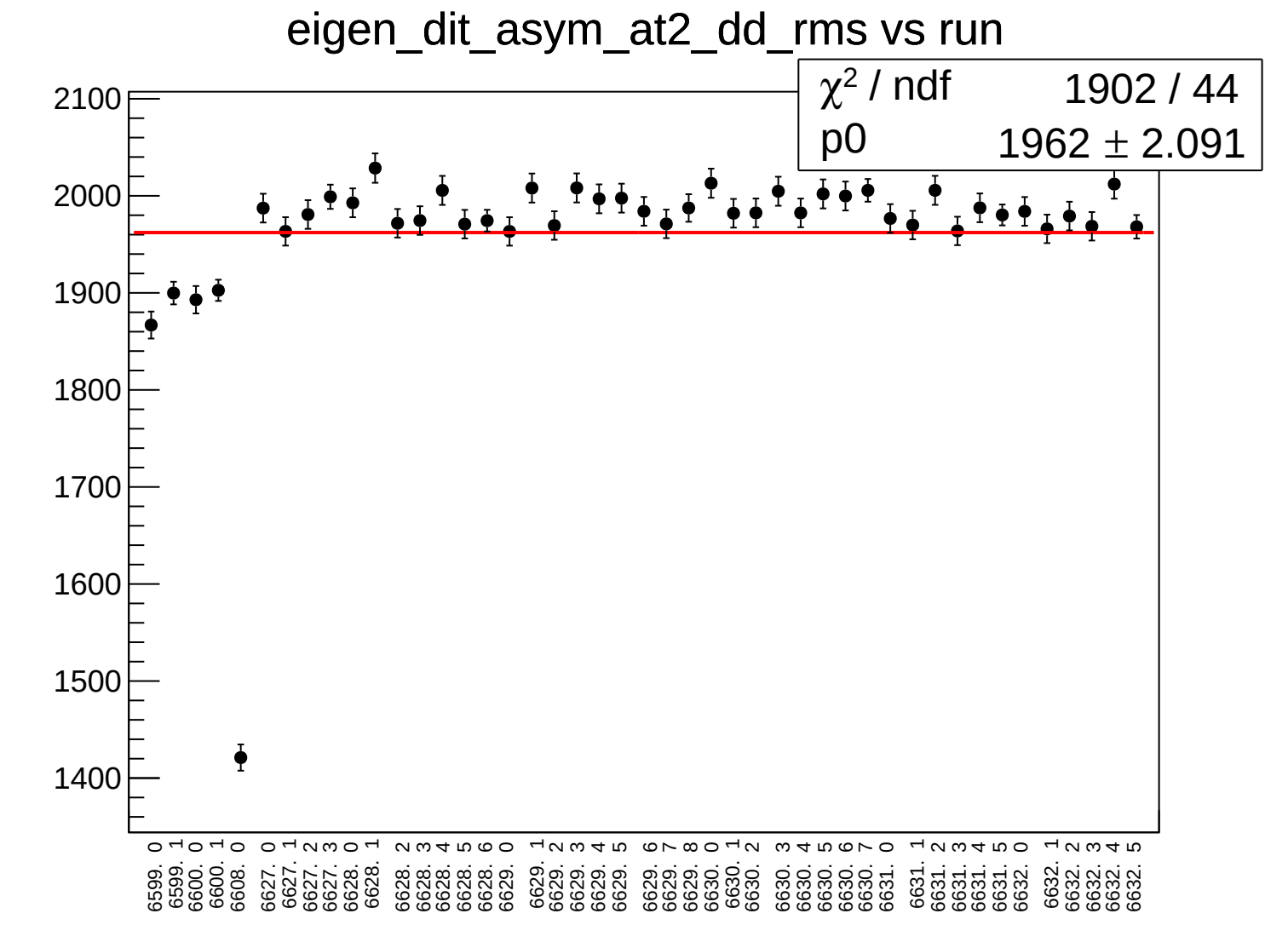
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −93.91
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.01698
Std Dev 1.032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 1902 / 44
p0 1962 ± 2.091
2100
2000
1900
1800
1700
1600
1500
1400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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6628. 5
6628. 6
6629. 0
6629. 1
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6631. 2
6631. 3
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6631. 5
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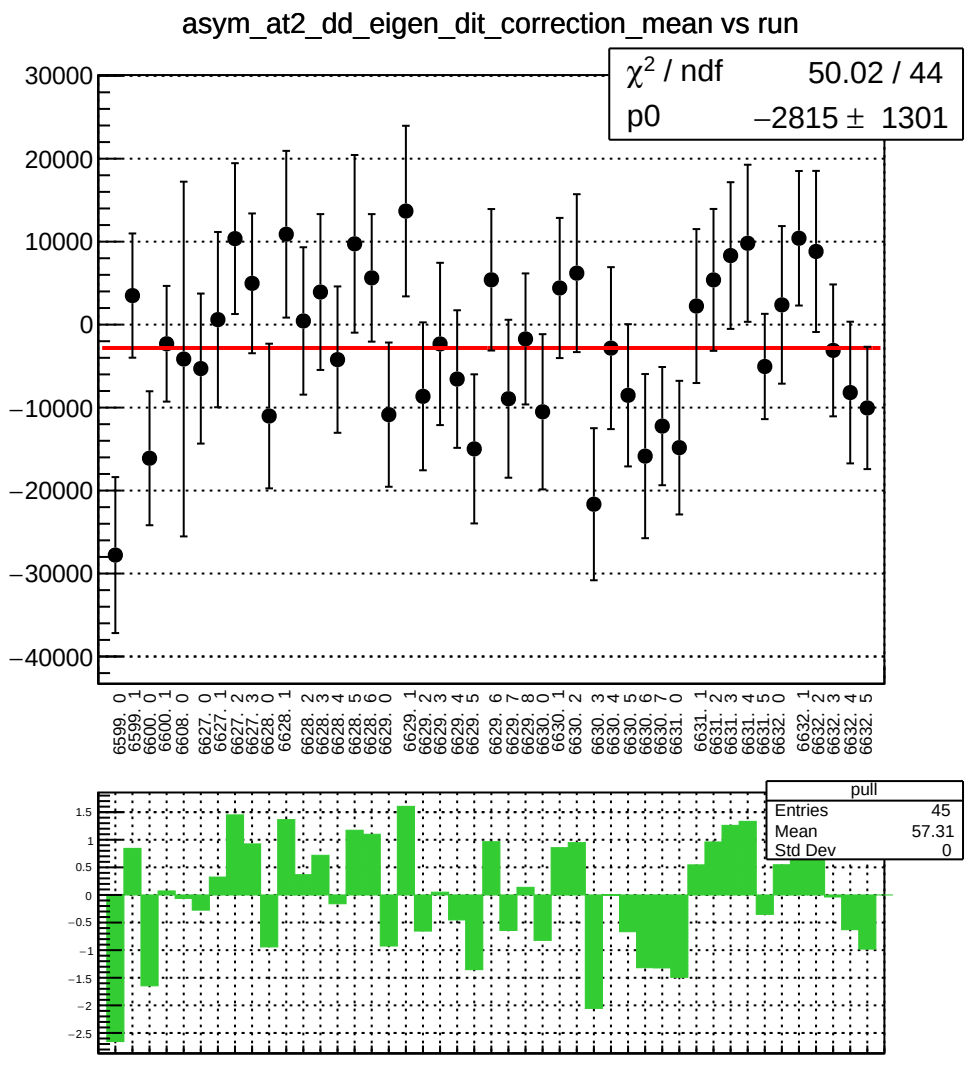
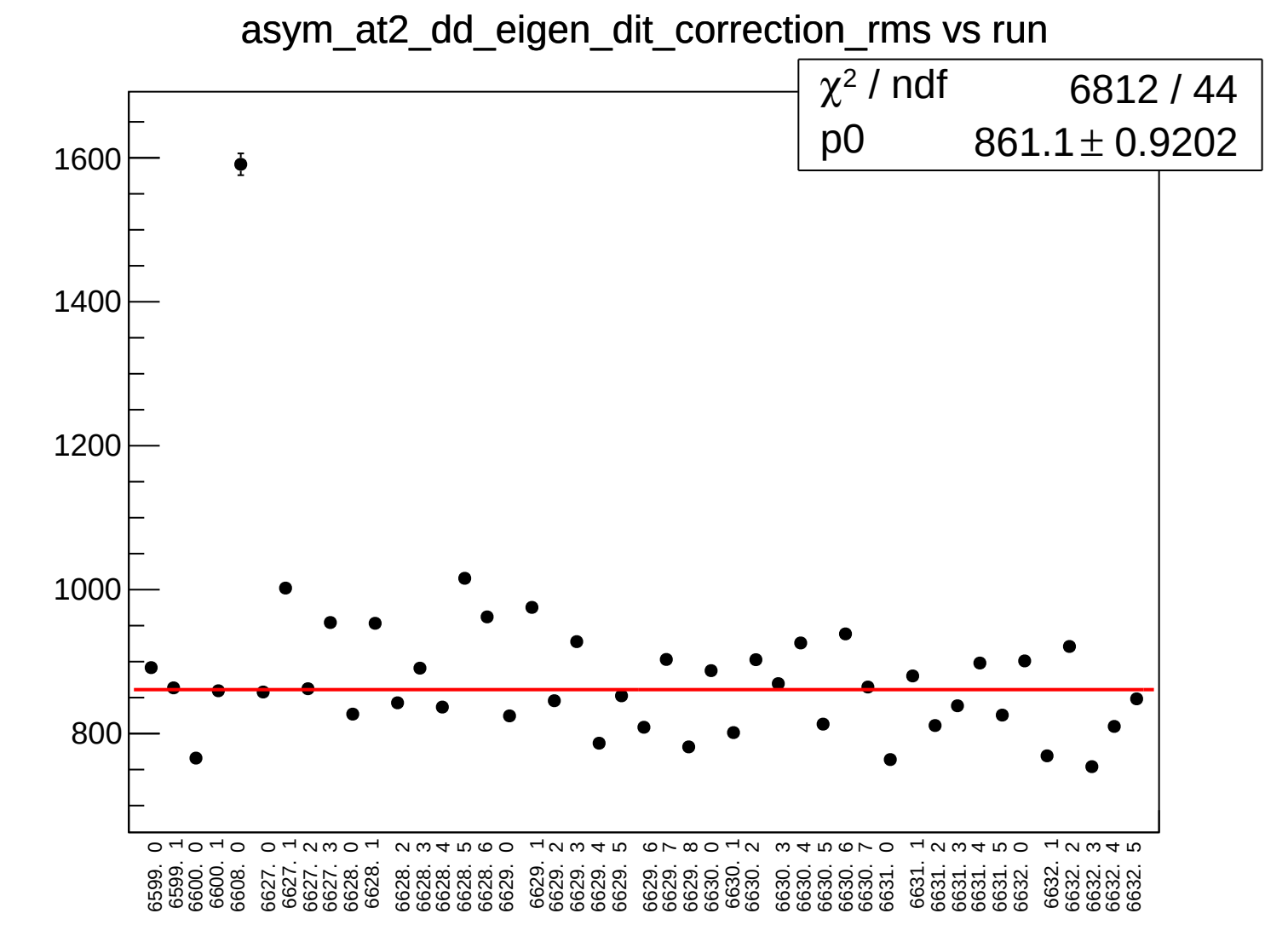
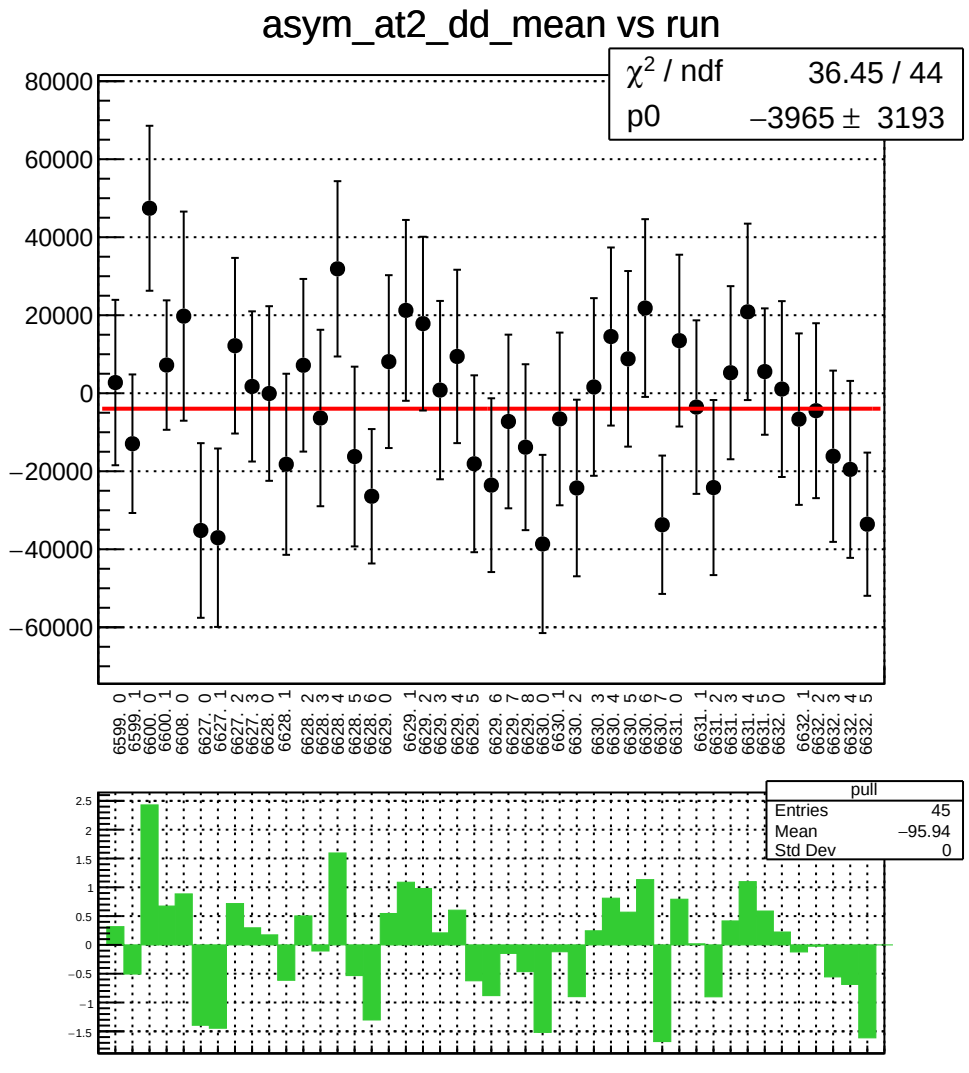
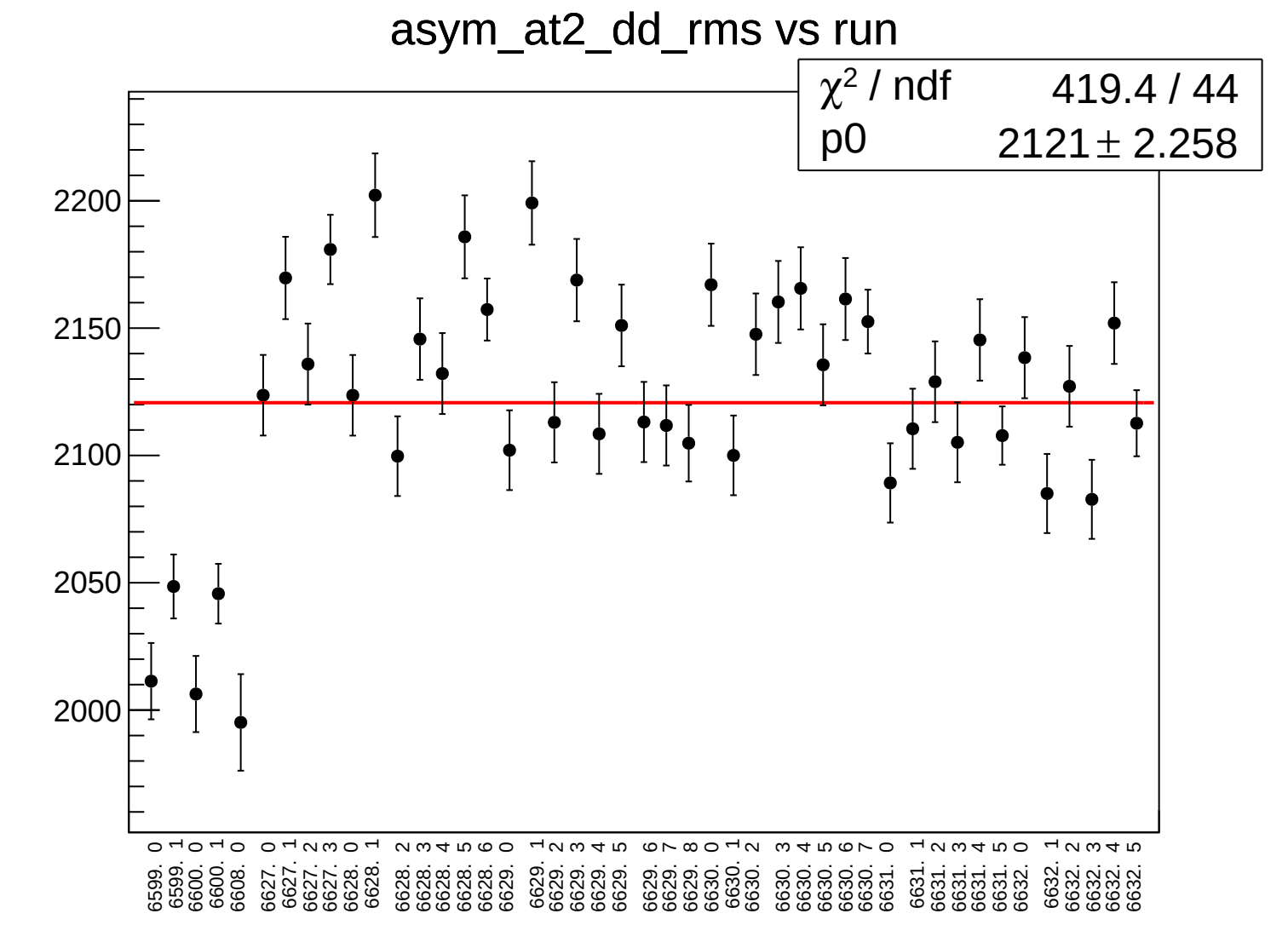
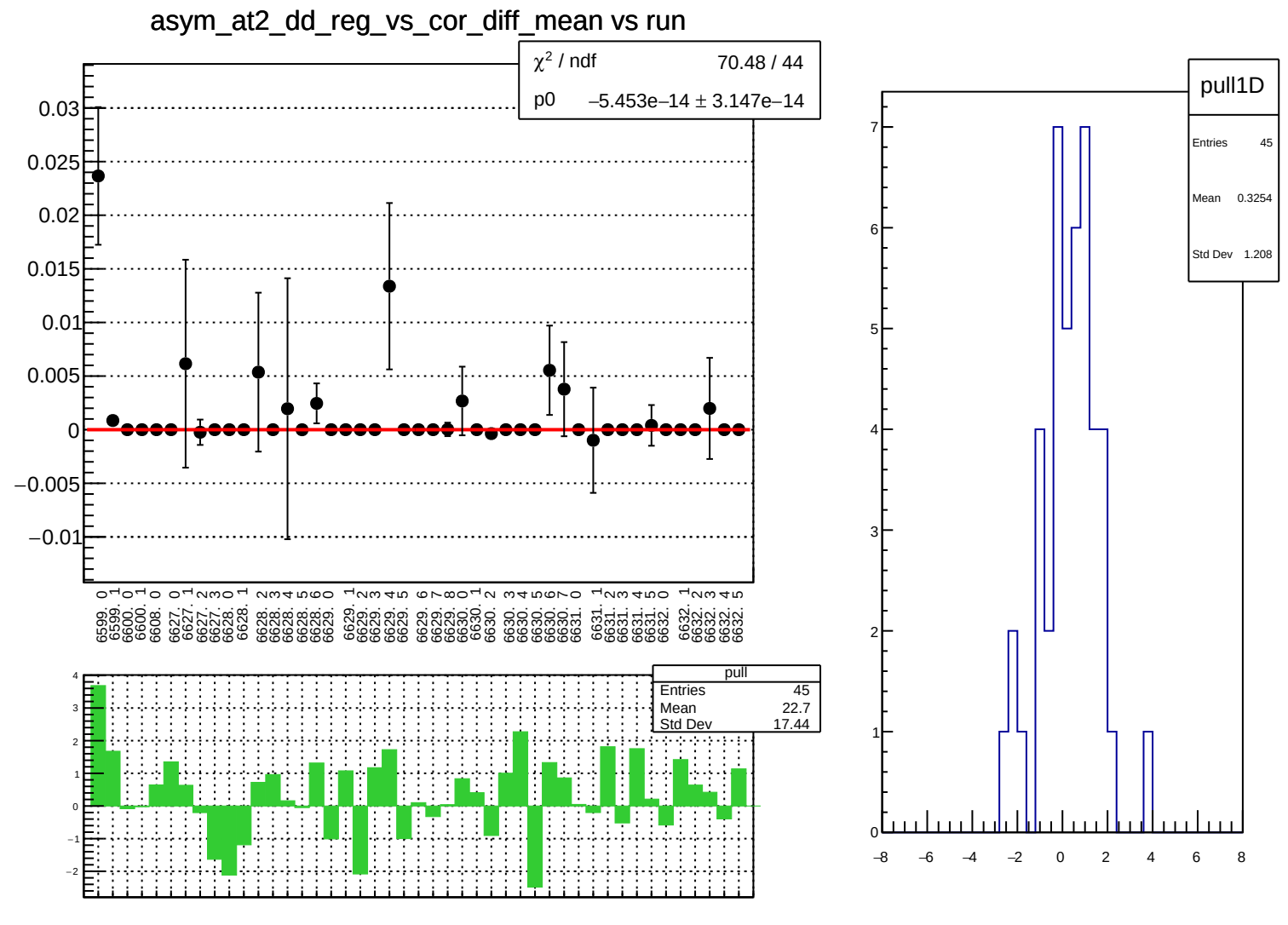
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

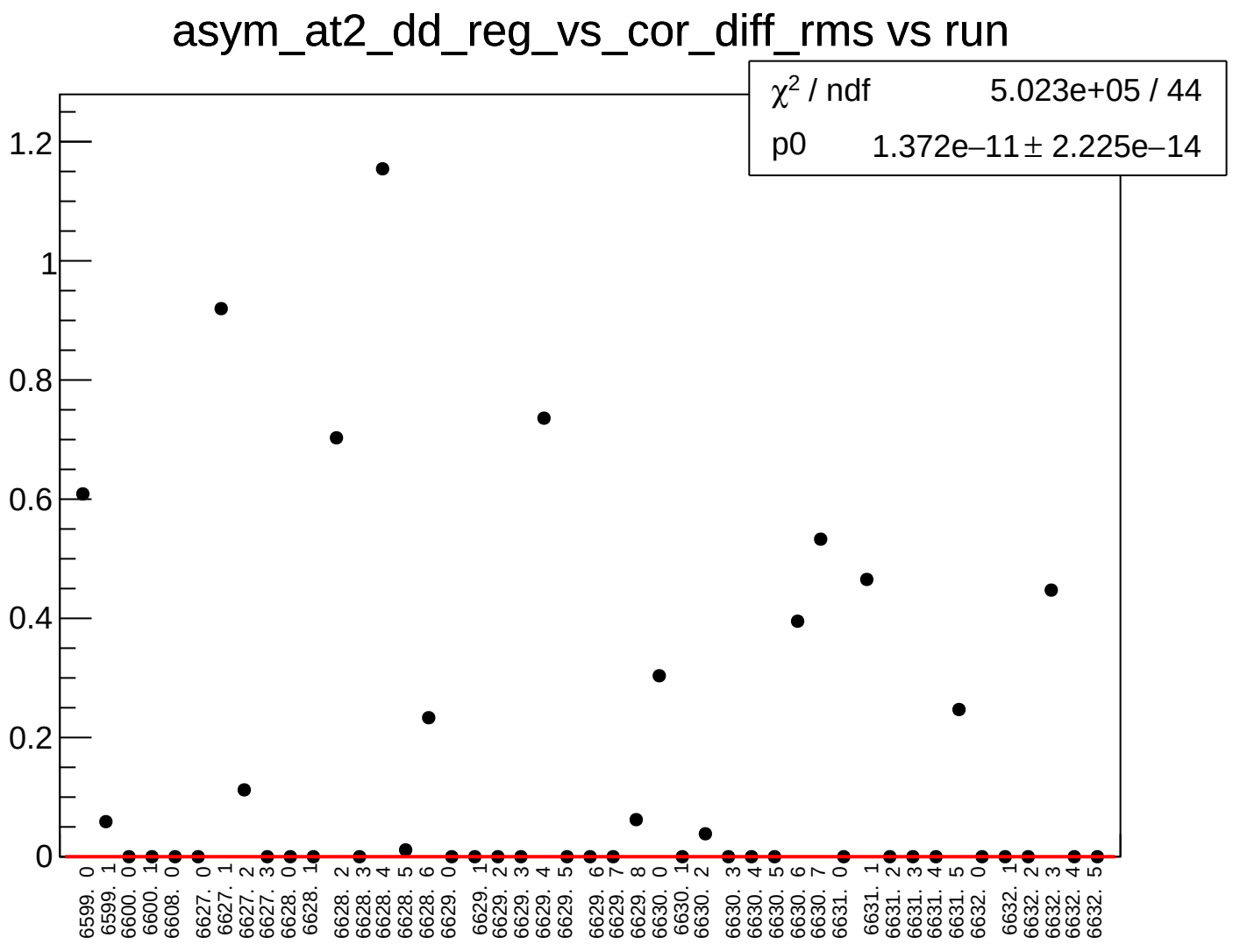

asym_at2_dd_eigen_dit_correction_mean vs run
χ² / ndf 50.02 / 44
p0 −2815 ± 1301
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 57.31
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.02077
Std Dev 1.054
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

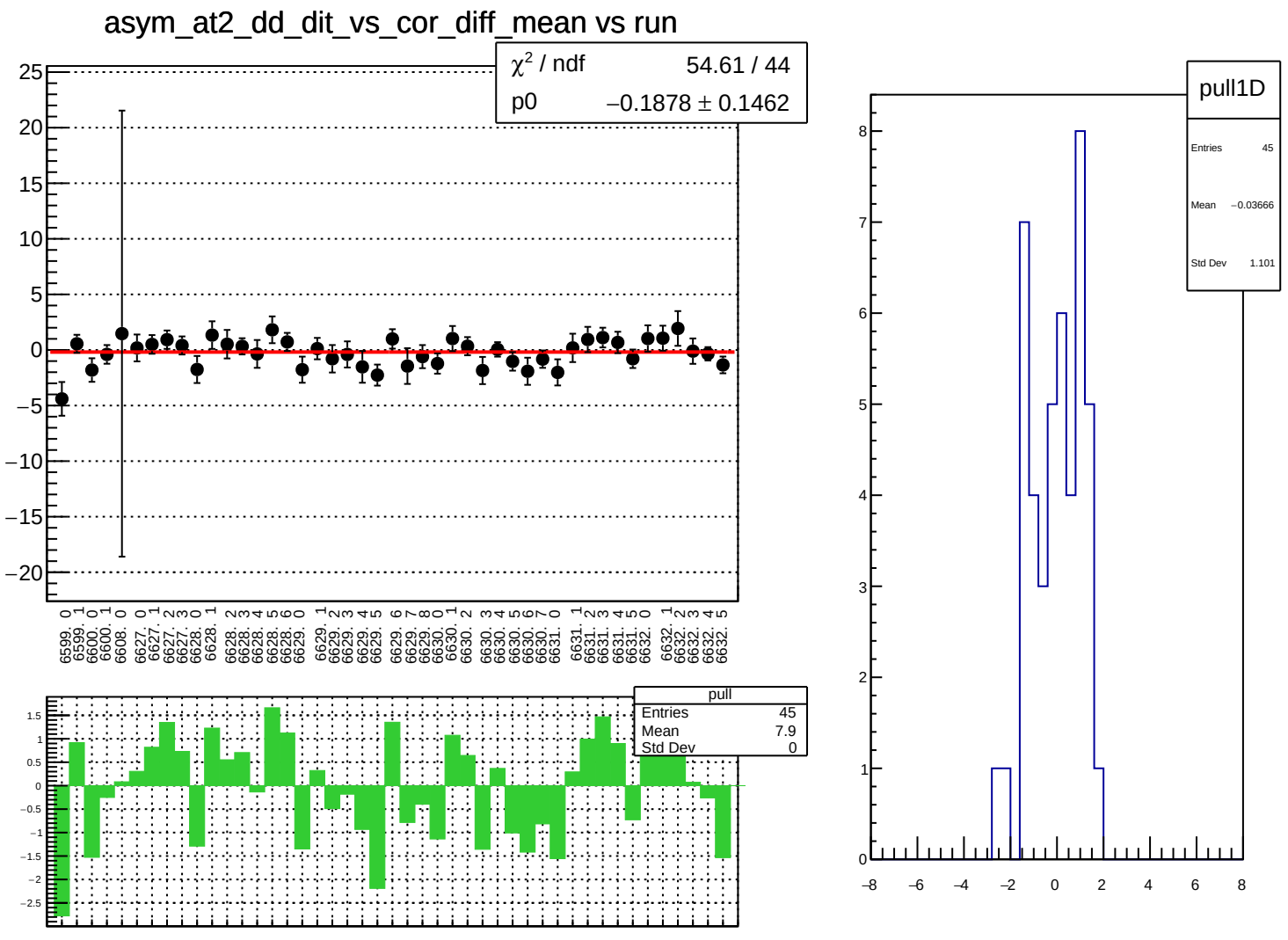

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 6812 / 44
p0 861.1 ± 0.9202
1600
1400
1200
1000
800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

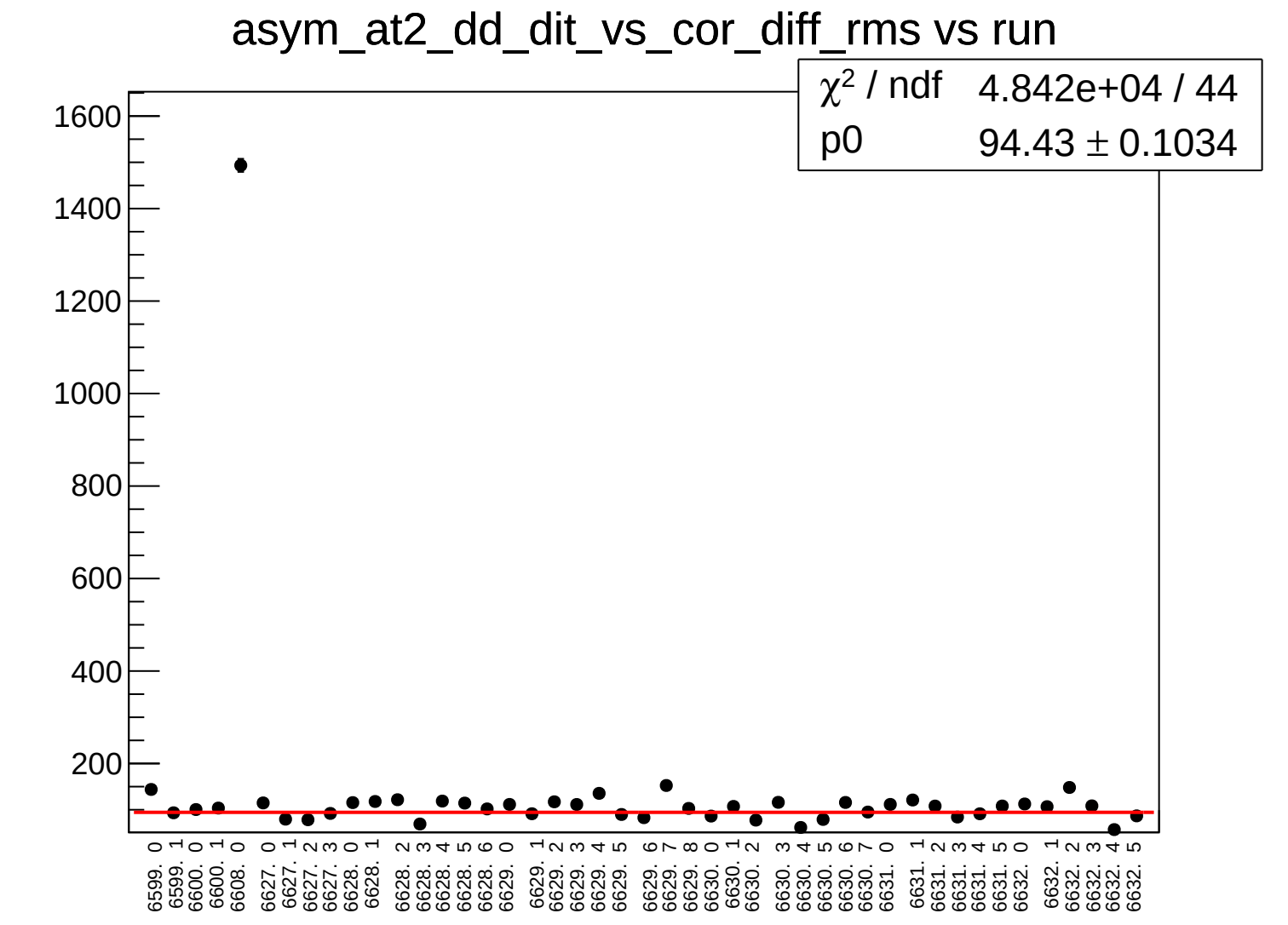

asym_at2_dd_mean vs run
χ² / ndf 36.45 / 44
p0 −3965 ± 3193
80000
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −95.94
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.01732
Std Dev 0.8998
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

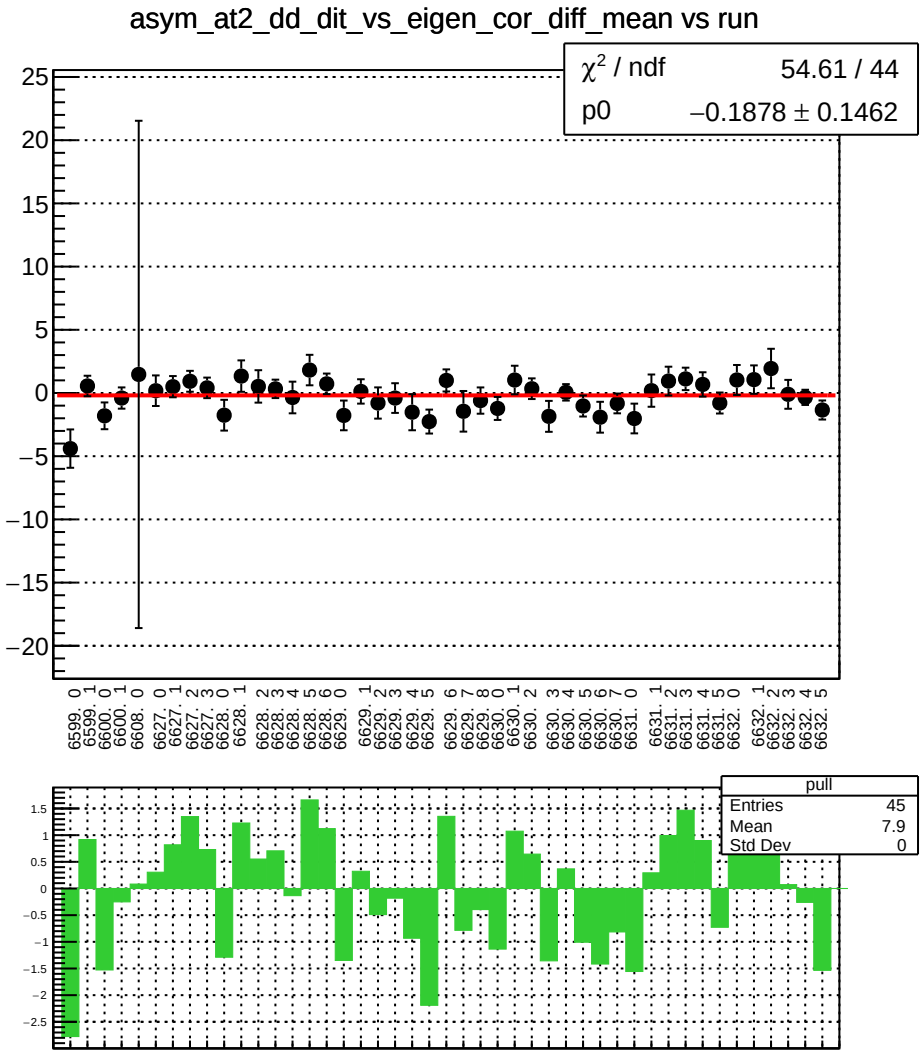

asym_at2_dd_rms vs run
χ² / ndf 419.4 / 44
p0 2121 ± 2.258
2200
2150
2100
2050
2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

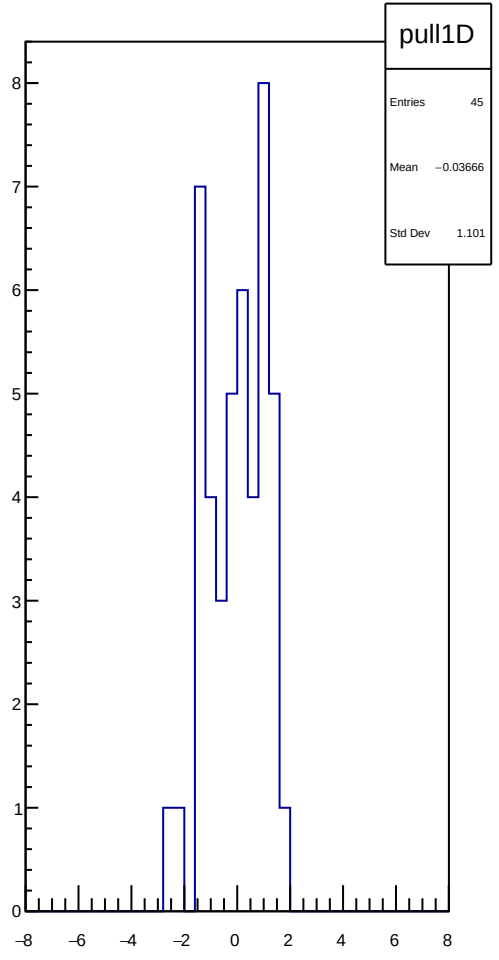

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 70.48 / 44
p0 −5.453e−14 ± 3.147e−14
0.03
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 22.7
Std Dev 17.44
4
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.3254
Std Dev 1.208
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

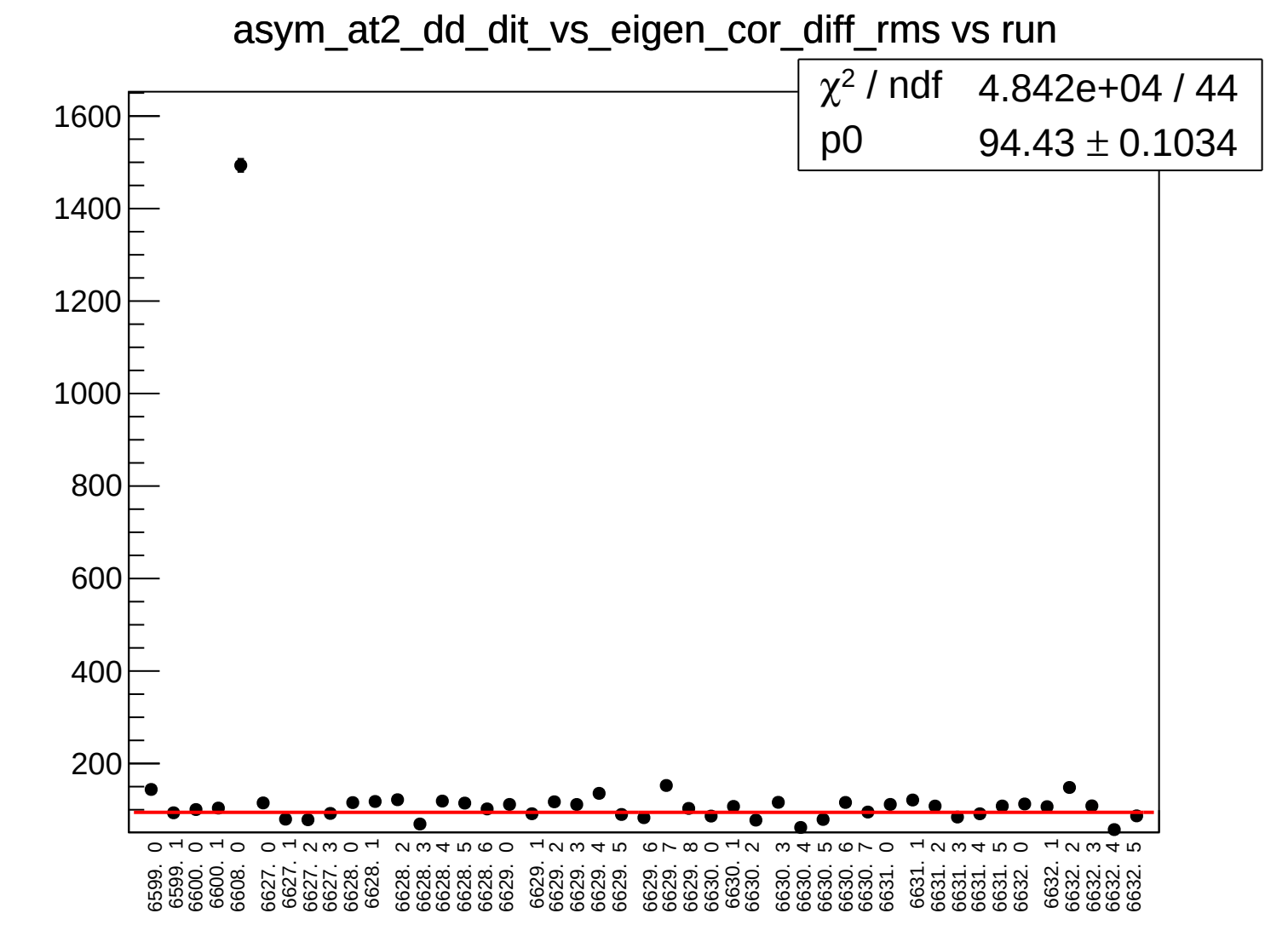

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.023e+05 / 44
p0 1.372e−11 ± 2.225e−14
1.2
1
0.8
0.6
0.4
0.2
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

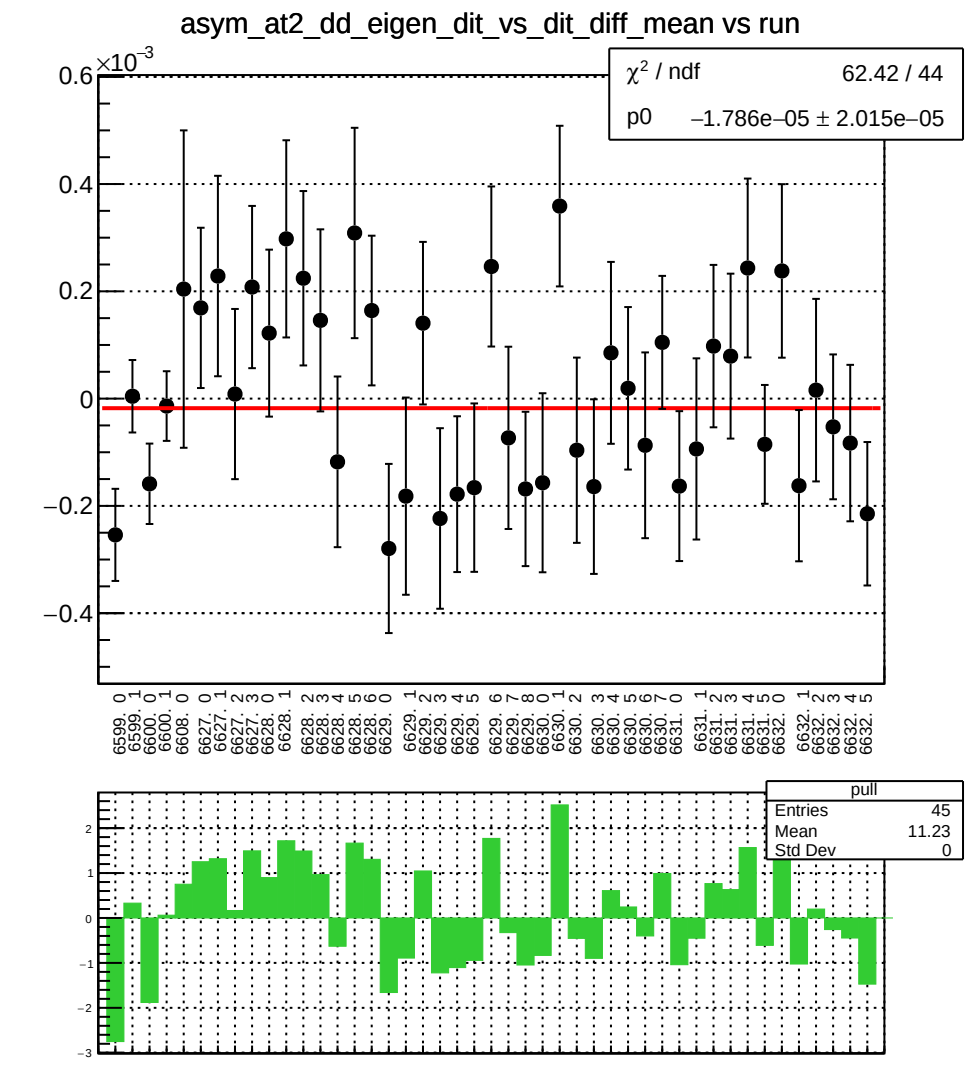

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 54.61 / 44
p0 −0.1878 ± 0.1462
pull
Entries 45
Mean 7.9
Std Dev 0
pull1D
Entries 45
Mean −0.03666
Std Dev 1.101

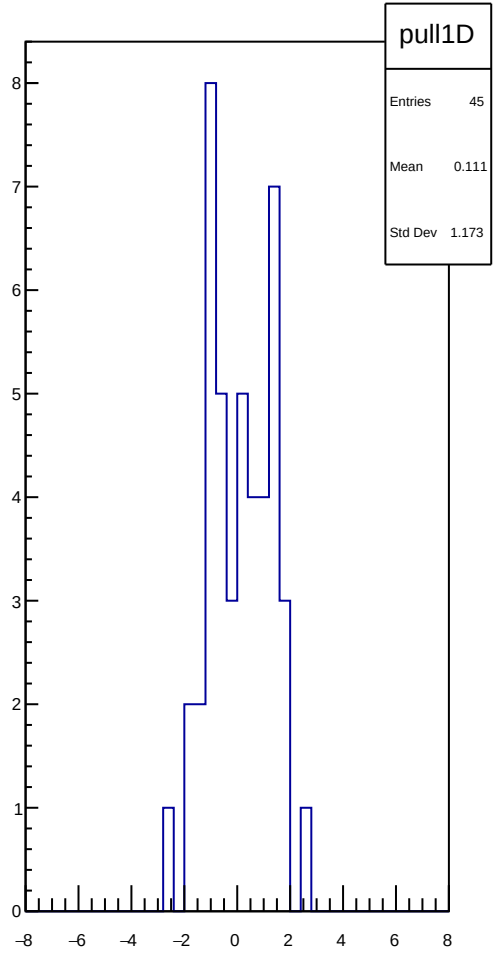

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.842e+04 / 44
p0 94.43 ± 0.1034
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

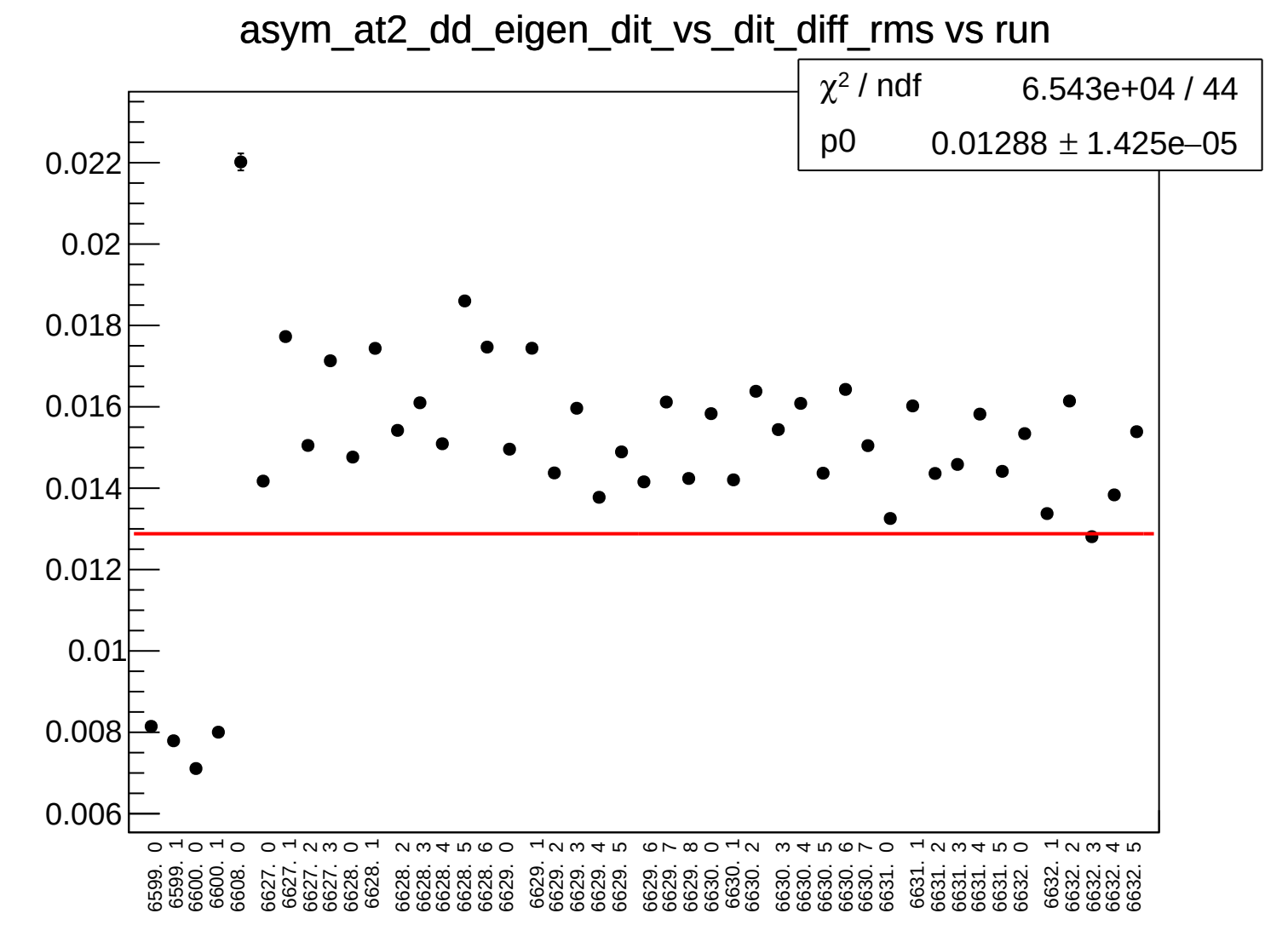

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 54.61 / 44
p0 −0.1878 ± 0.1462
pull
Entries 45
Mean 7.9
Std Dev 0

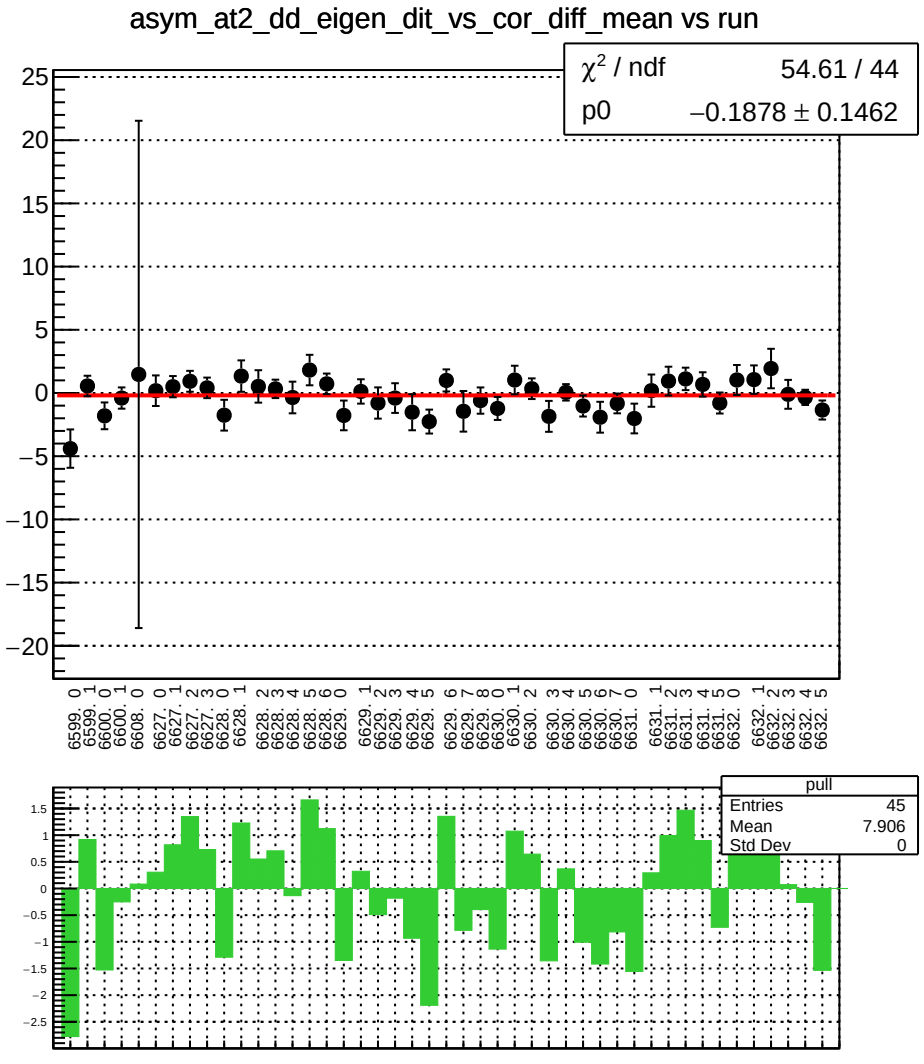

pull1D
Entries 45
Mean −0.03666
Std Dev 1.101

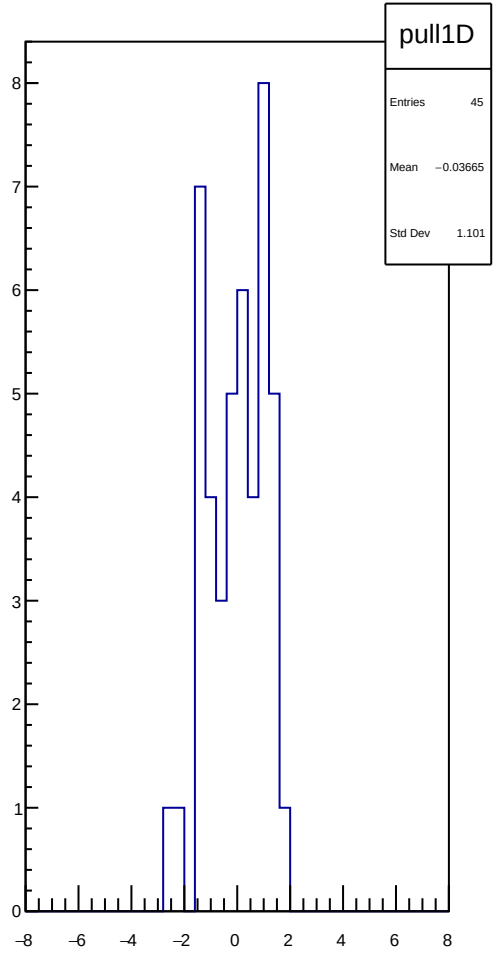

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.842e+04 / 44
p0 94.43 ± 0.1034
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

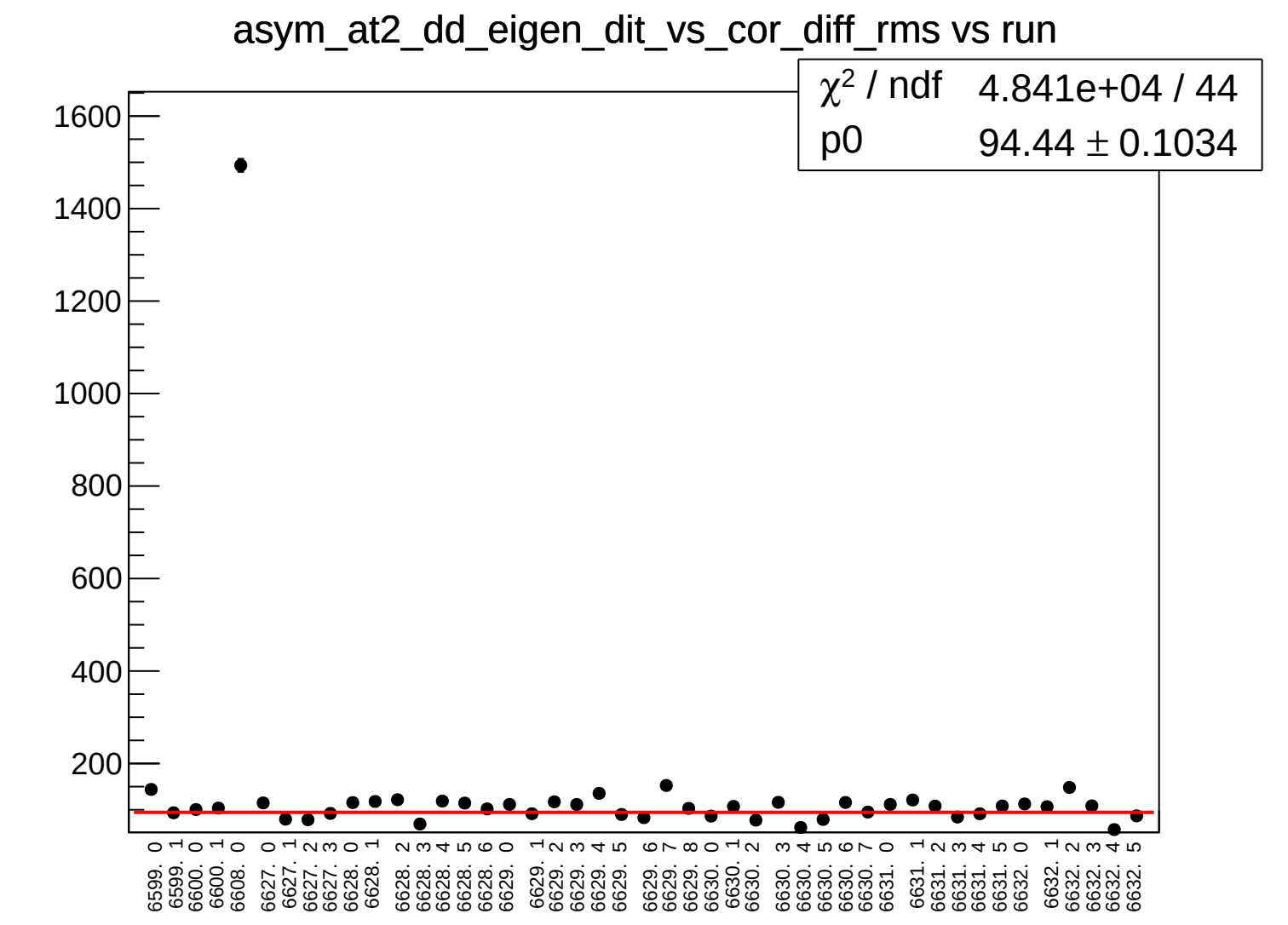

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 62.42 / 44
p0 −1.786e−05 ± 2.015e−05
pull
Entries 45
Mean 11.23
Std Dev 0


pull1D
Entries 45
Mean 0.111
Std Dev 1.173


asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.543e+04 / 44
p0 0.01288 ± 1.425e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 54.61 / 44
p0 −0.1878 ± 0.1462
pull
Entries 45
Mean 7.906
Std Dev 0


pull1D
Entries 45
Mean −0.03665
Std Dev 1.101


asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.841e+04 / 44
p0 94.44 ± 0.1034
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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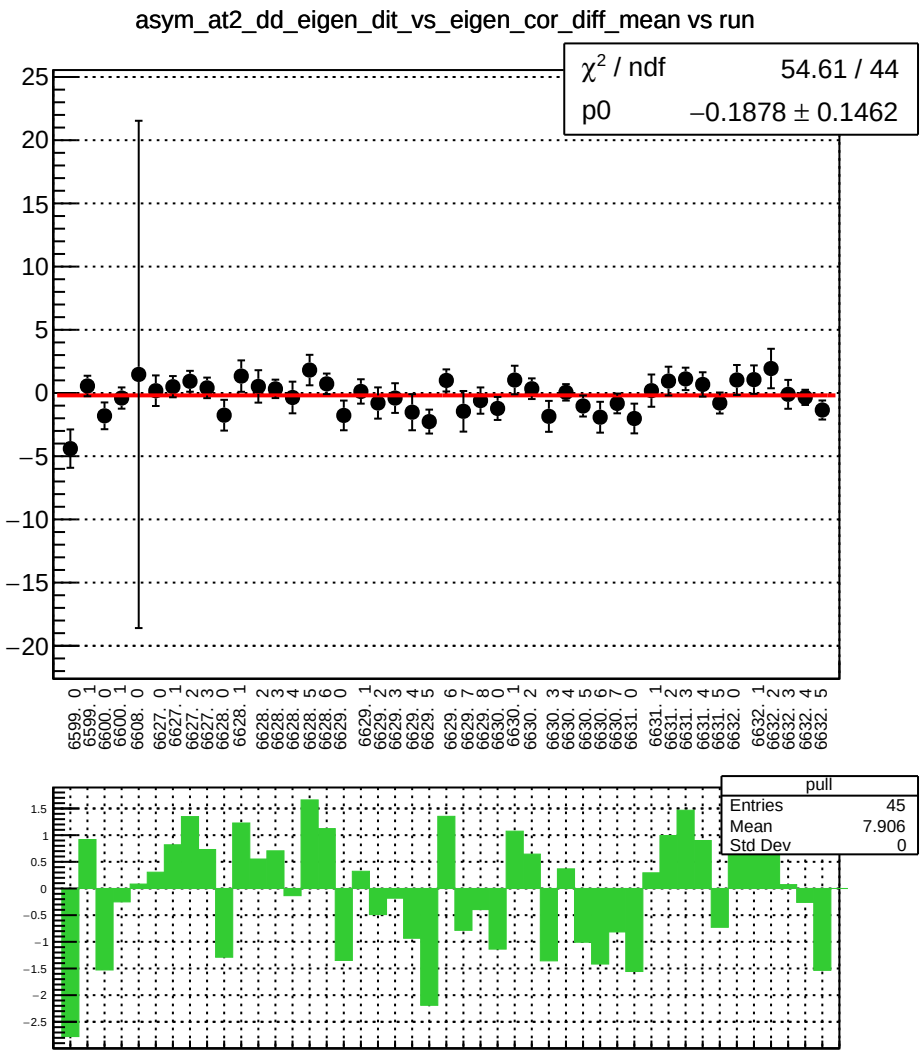
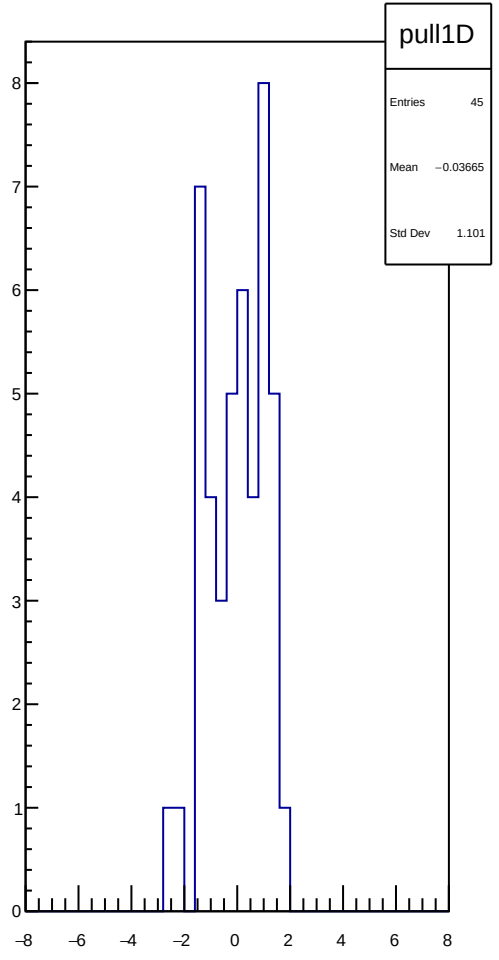
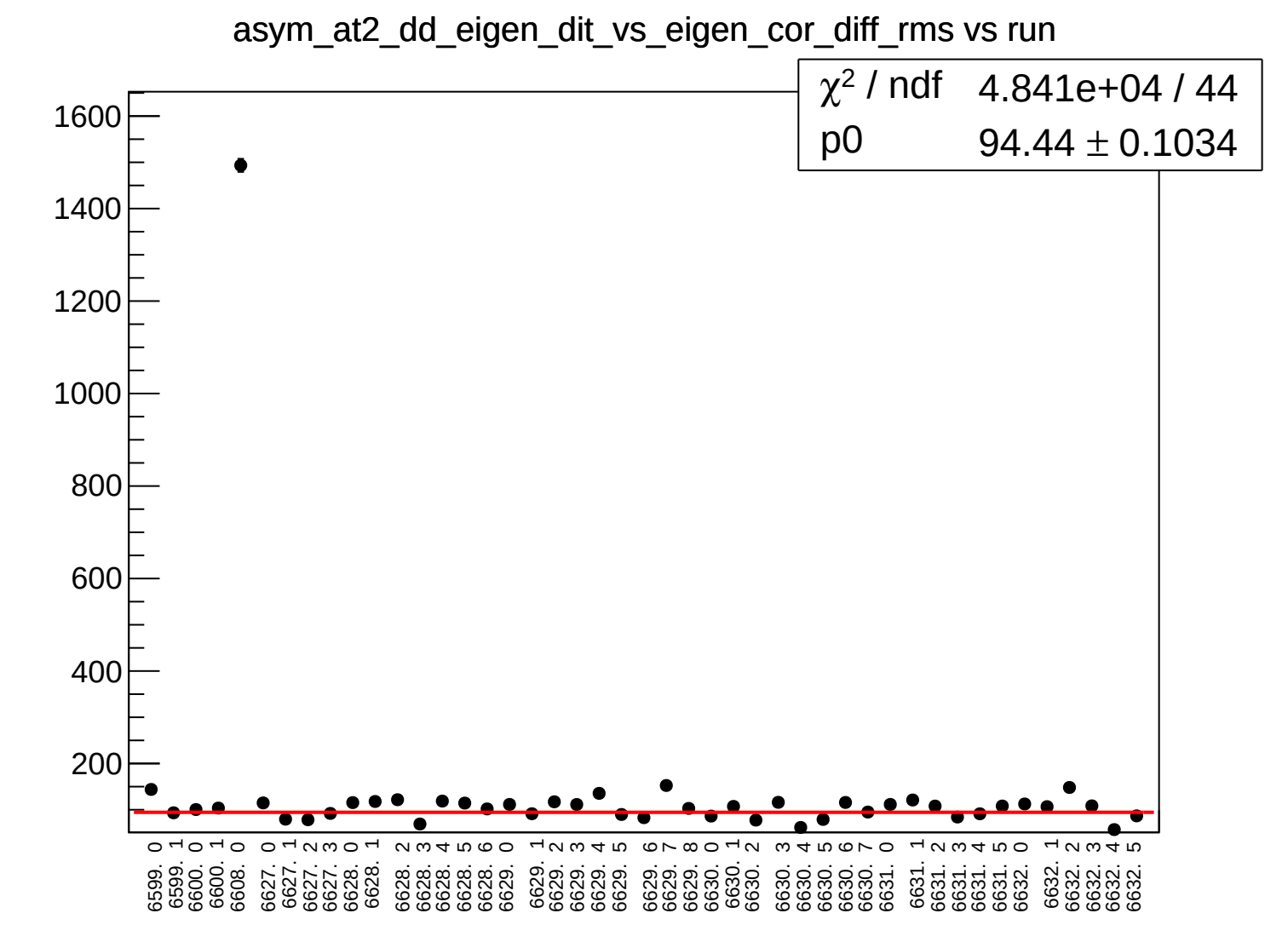
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 54.61 / 44
p0 −0.1878 ± 0.1462
pull
Entries 45
Mean 7.906
Std Dev 0


pull1D
Entries 45
Mean −0.03665
Std Dev 1.101


asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.841e+04 / 44
p0 94.44 ± 0.1034
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
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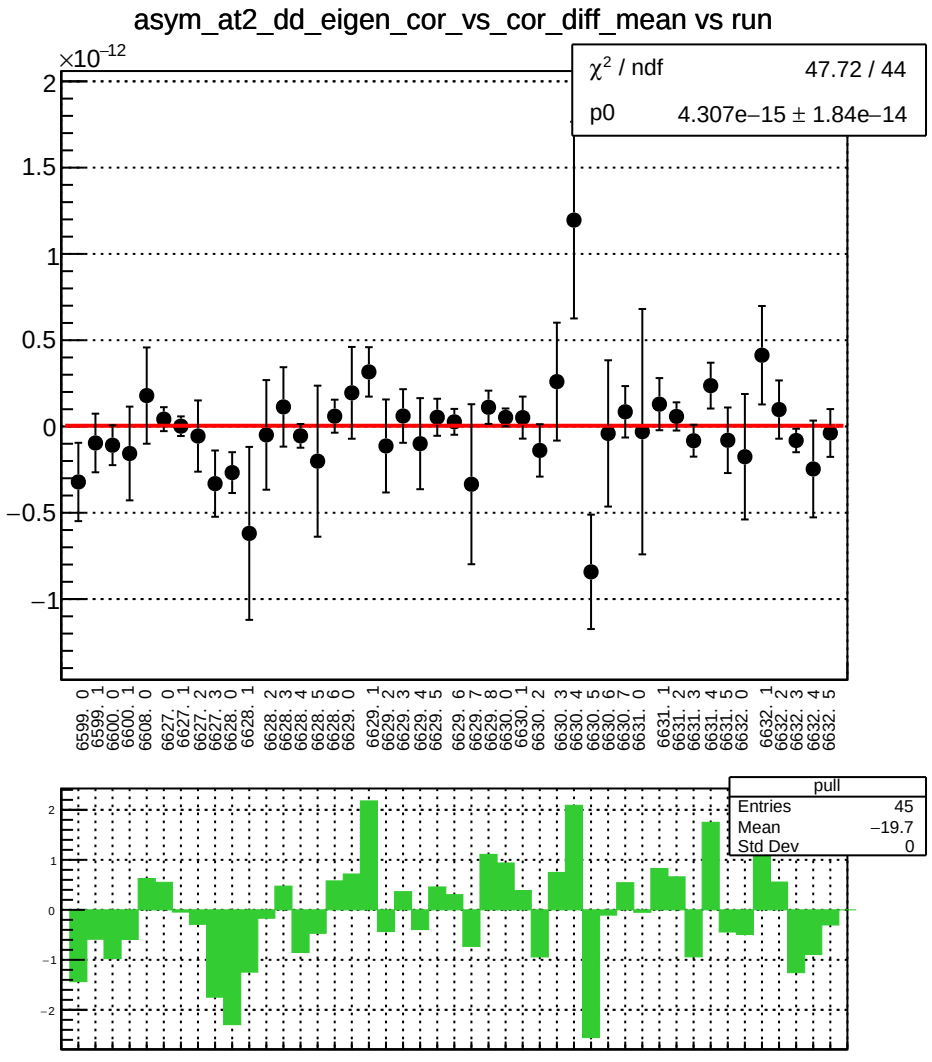
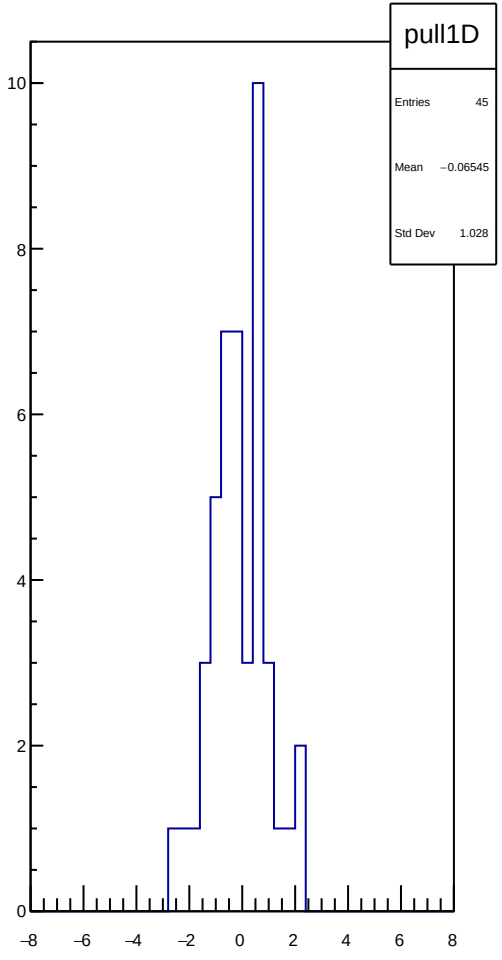
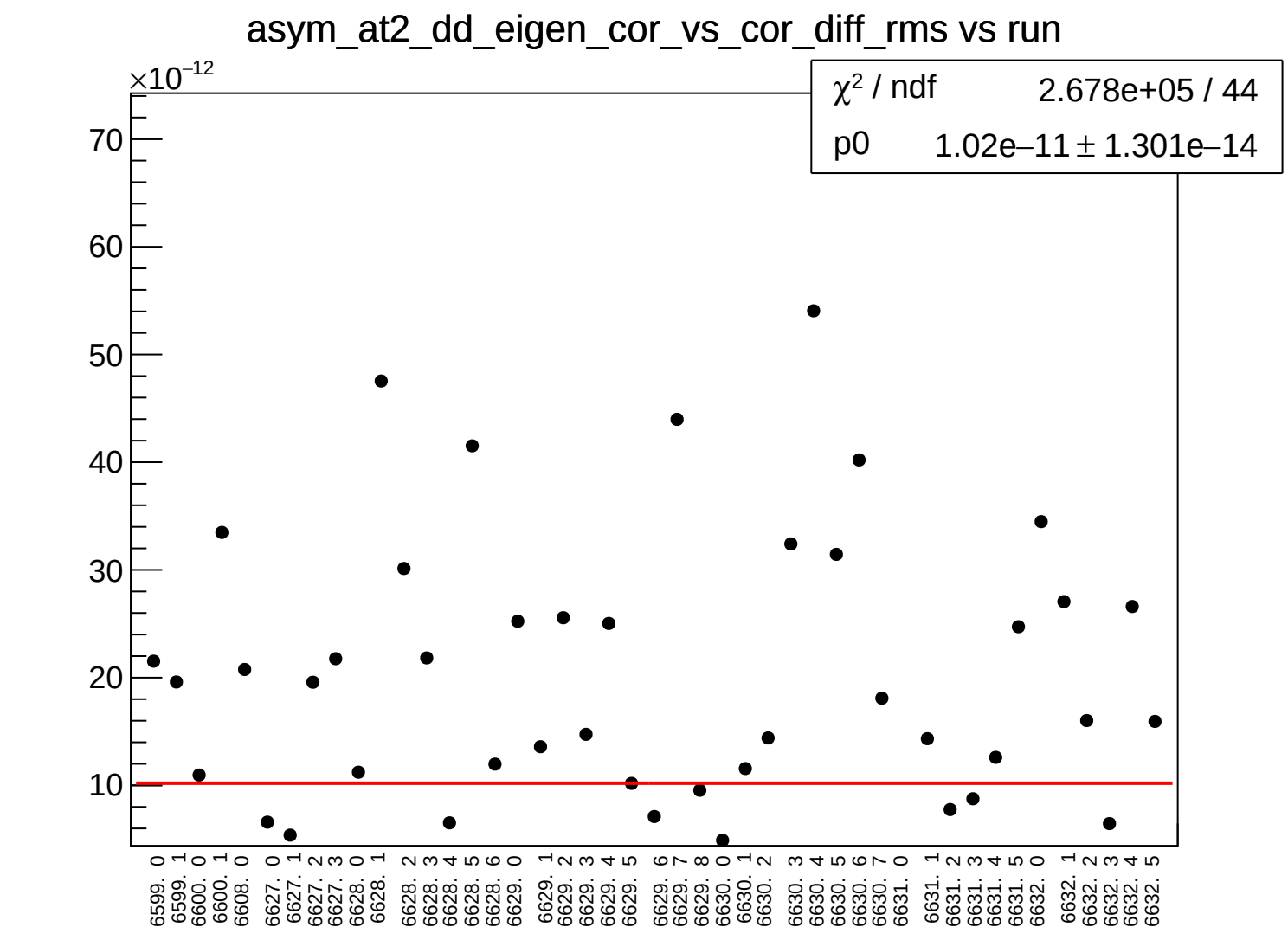
6632. 4
6632. 5


asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 47.72 / 44
p0 4.307e−15 ± 1.84e−14
pull
Entries 45
Mean −19.7
Std Dev 0


pull1D
Entries 45
Mean −0.06545
Std Dev 1.028


asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.678e+05 / 44
p0 1.02e−11 ± 1.301e−14
70
60
50
40
30
20
10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 5
6629. 6
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6630. 6
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6631. 1
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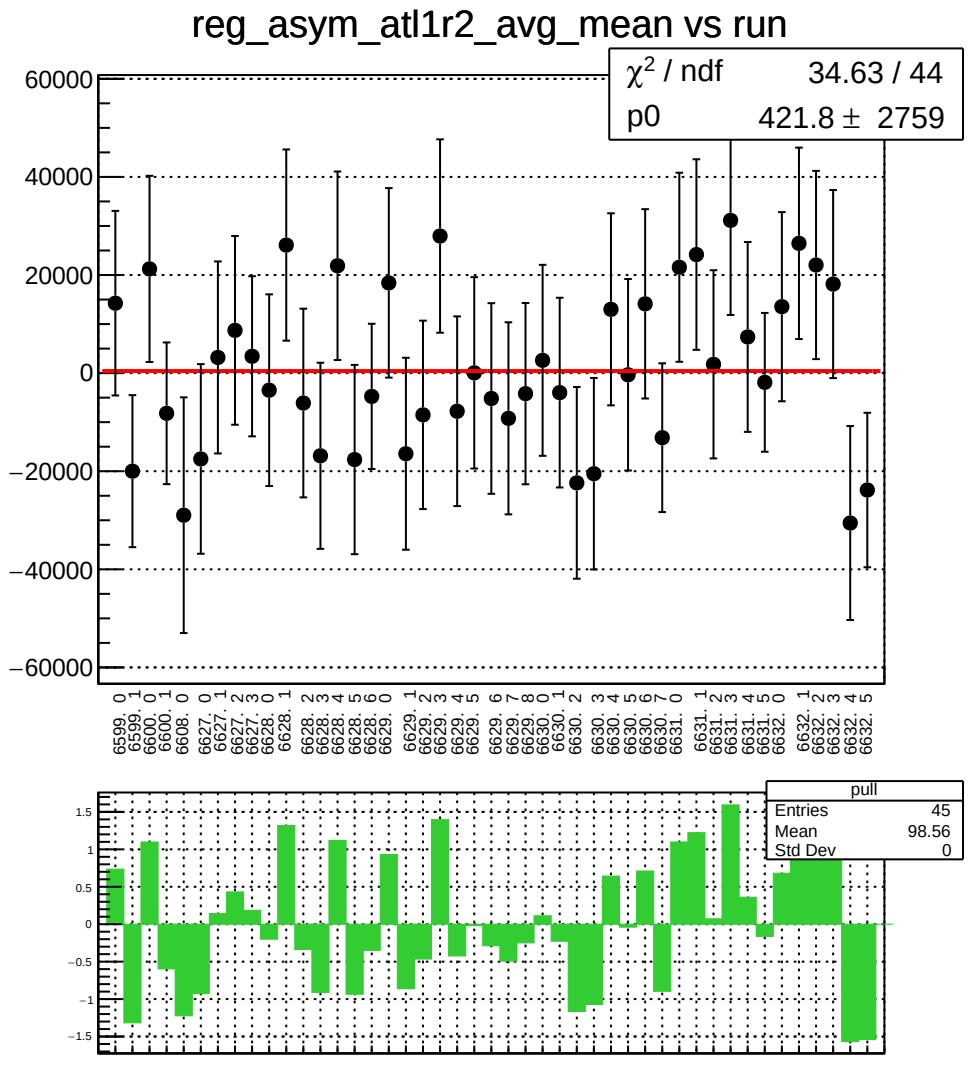
6632. 5


reg_asym_atl1r2_avg_mean vs run
χ² / ndf 34.63 / 44
p0 421.8 ± 2759
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6629. 7
6629. 8
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6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 98.56
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.02142
Std Dev 0.877
9
8
7
6
5
4
3
2
1
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−8
−6
−4
−2
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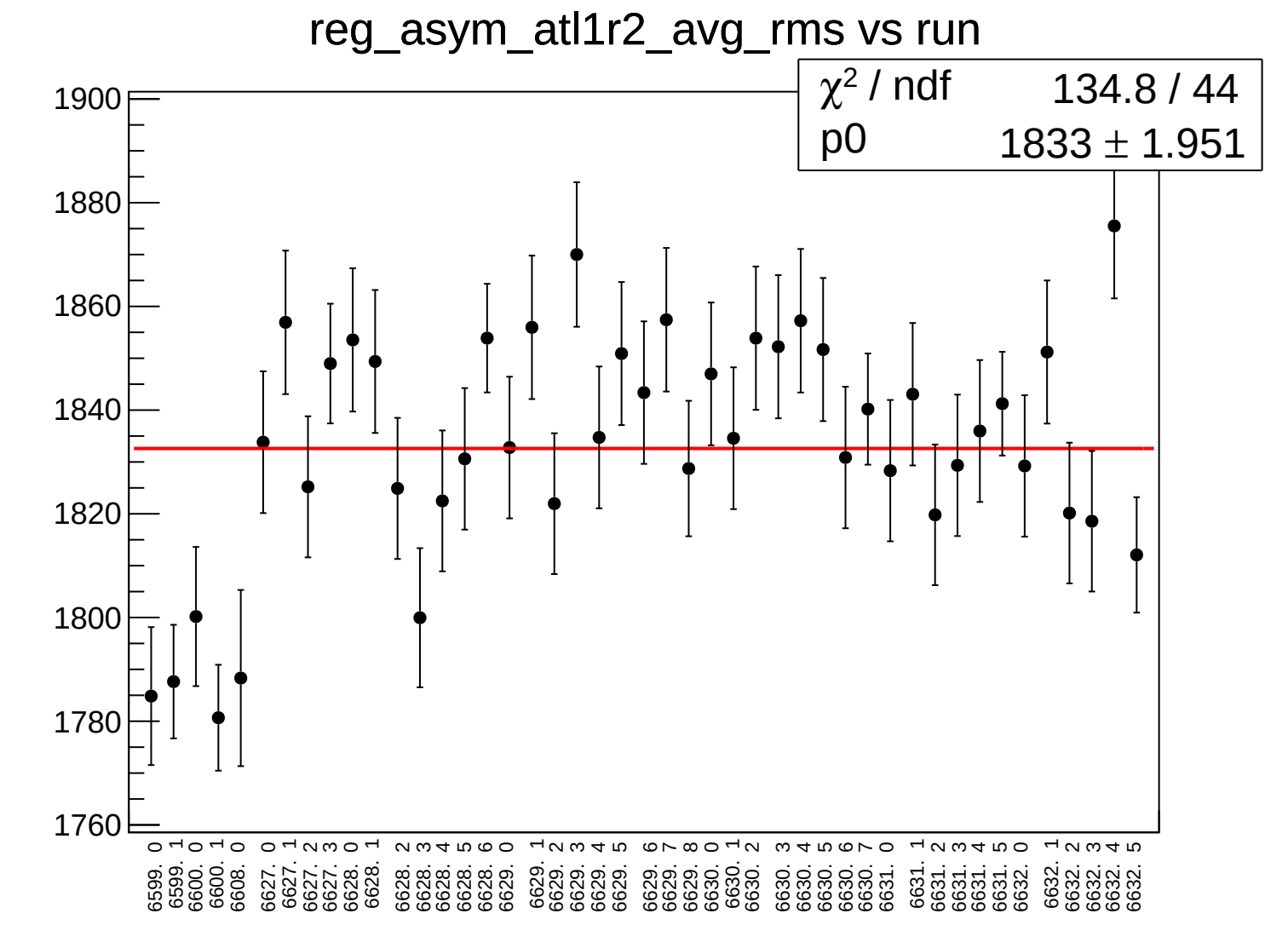
4
6
8


reg_asym_atl1r2_avg_rms vs run
χ² / ndf 134.8 / 44
p0 1833 ± 1.951
1900
1880
1860
1840
1820
1800
1780
1760
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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6628. 0
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6629. 4
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6629. 7
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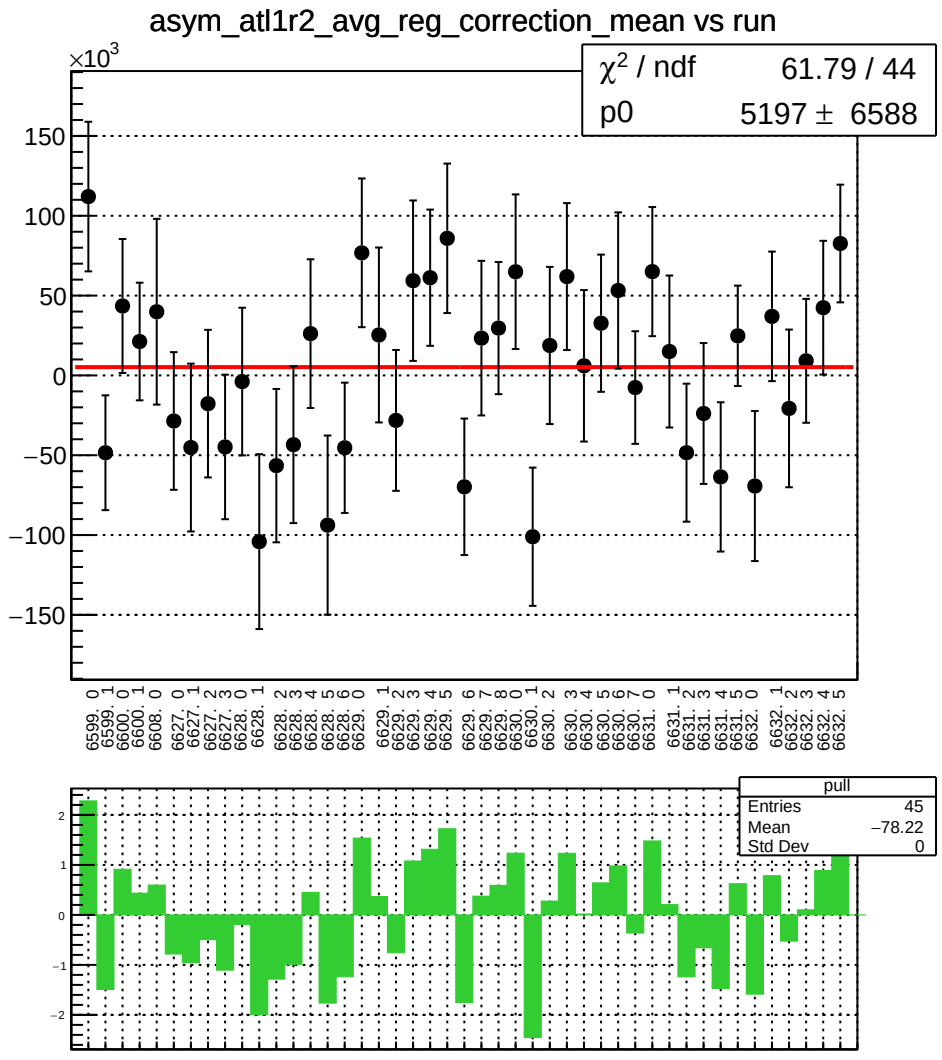
6632. 5


asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 61.79 / 44
p0 5197 ± 6588
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
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6629. 6
6629. 7
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6630. 0
6630. 1
6630. 2
6630. 3
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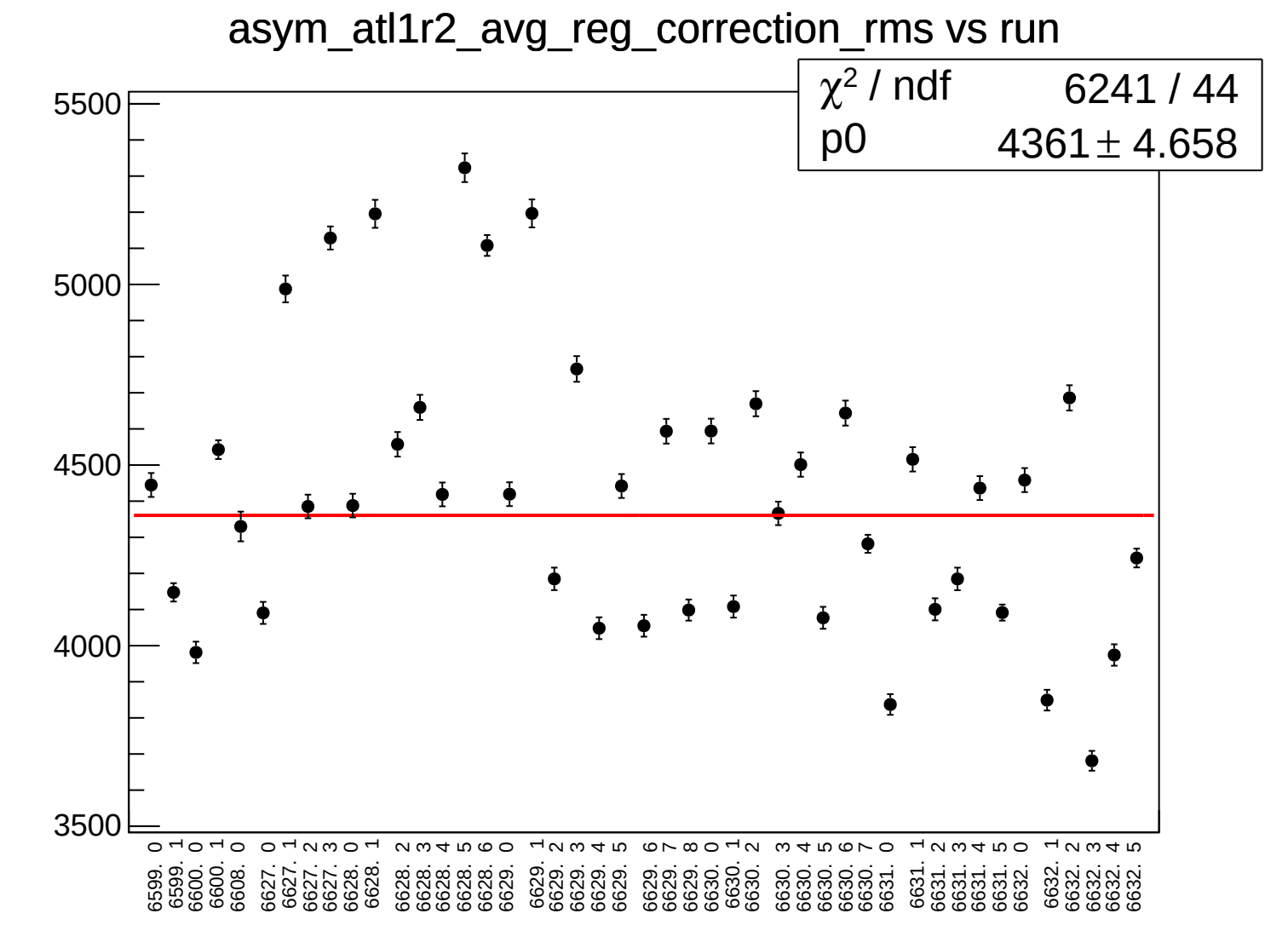
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −78.22
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01967
Std Dev 1.172
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 6241 / 44
p0 4361 ± 4.658
5500
5000
4500
4000
3500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6629. 3
6629. 4
6629. 5
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6630. 4
6630. 5
6630. 6
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6631. 0
6631. 1
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6632. 2
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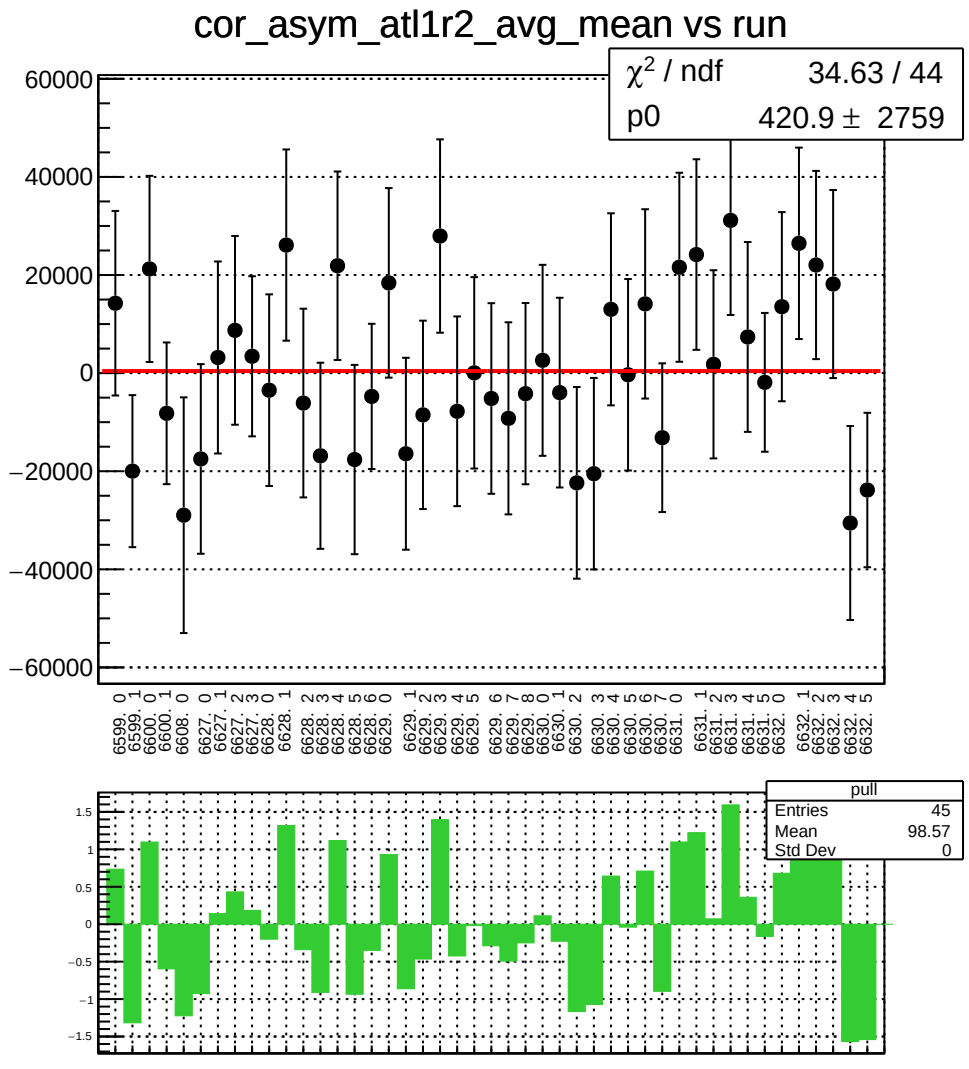
6632. 4
6632. 5


cor_asym_atl1r2_avg_mean vs run
χ² / ndf 34.63 / 44
p0 420.9 ± 2759
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
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6629. 0
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6629. 7
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6630. 1
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6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 98.57
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.02142
Std Dev 0.877
9
8
7
6
5
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2
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−4
−2
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6
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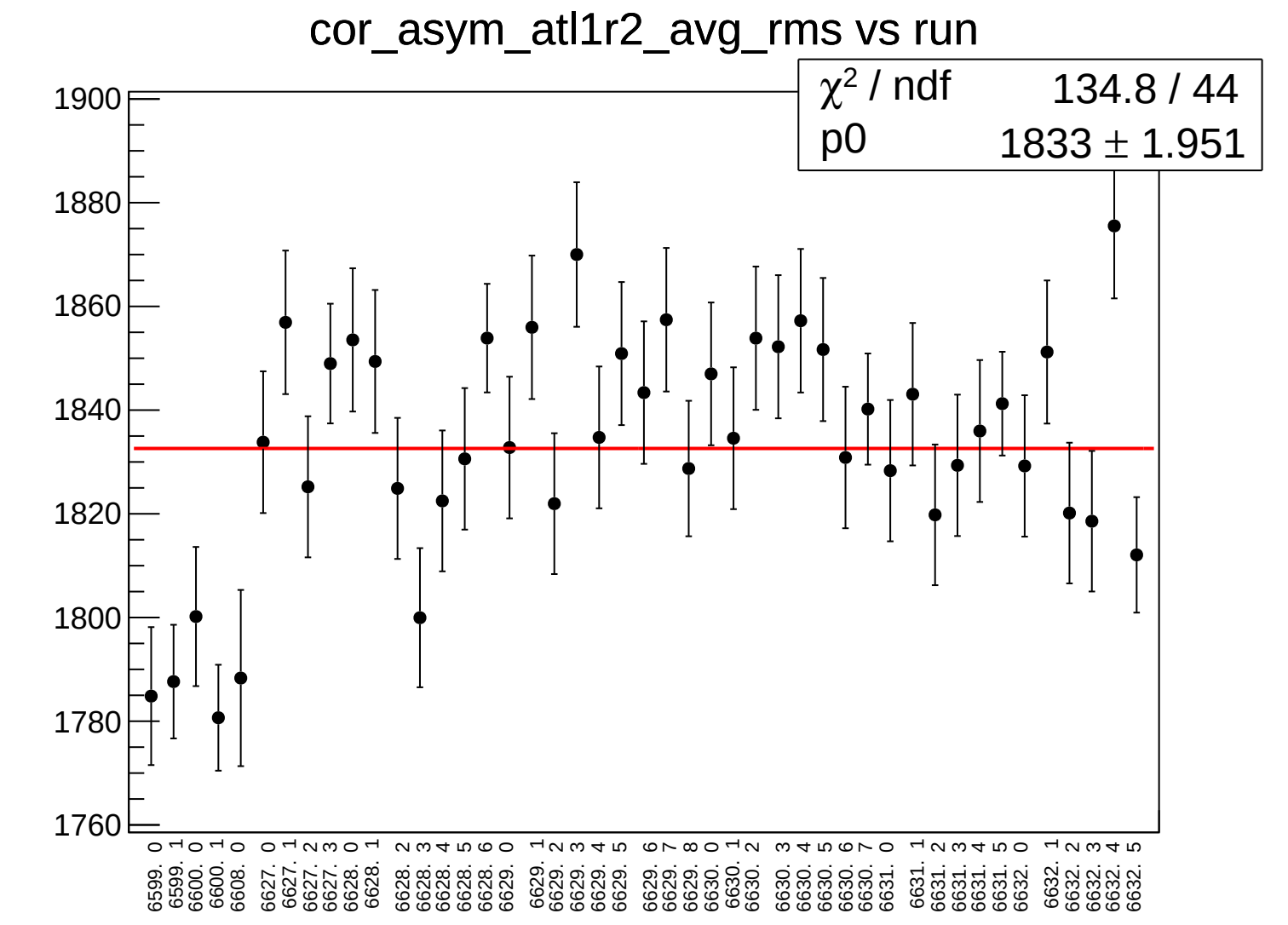
cor_asym_atl1r2_avg_rms vs run
χ² / ndf 134.8 / 44
p0 1833 ± 1.951
1900
1880
1860
1840
1820
1800
1780
1760
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
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6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
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6630. 5
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6630. 7
6631. 0
6631. 1
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6632. 2
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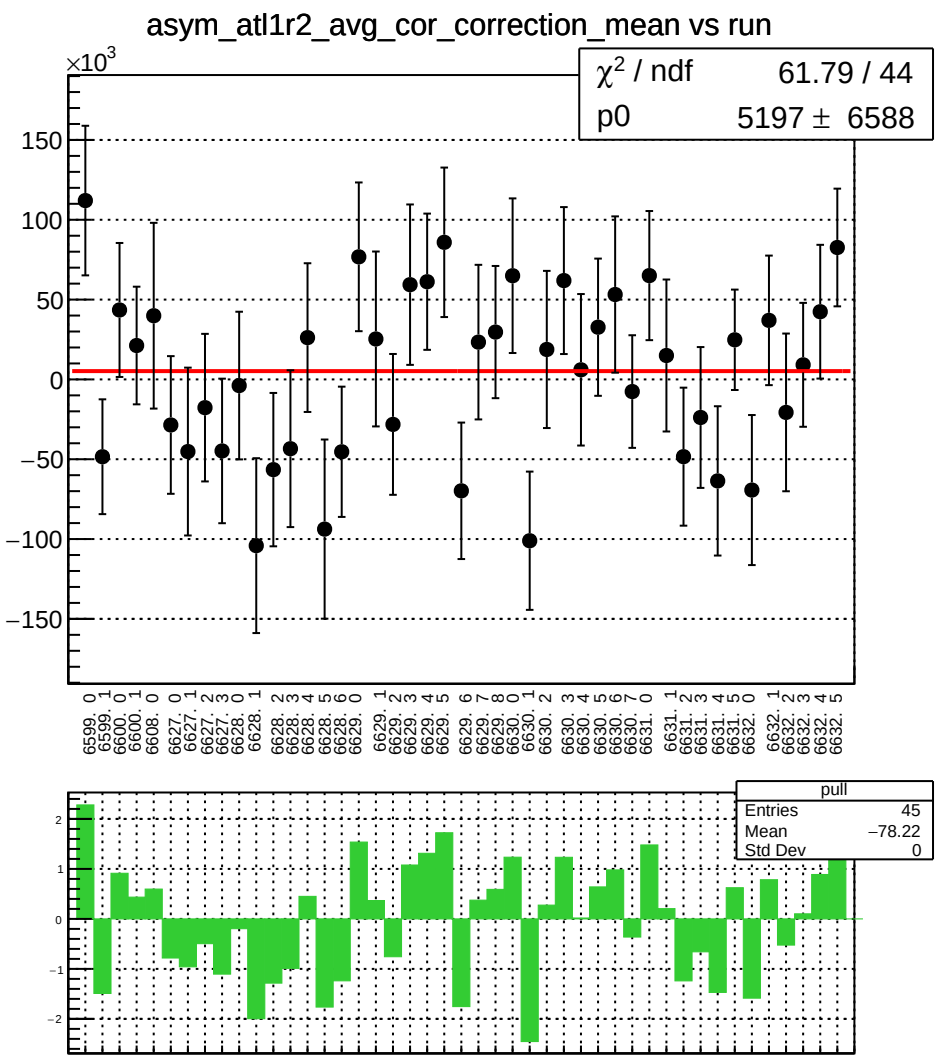
6632. 4
6632. 5


asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 61.79 / 44
p0 5197 ± 6588
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
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6629. 3
6629. 4
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6629. 6
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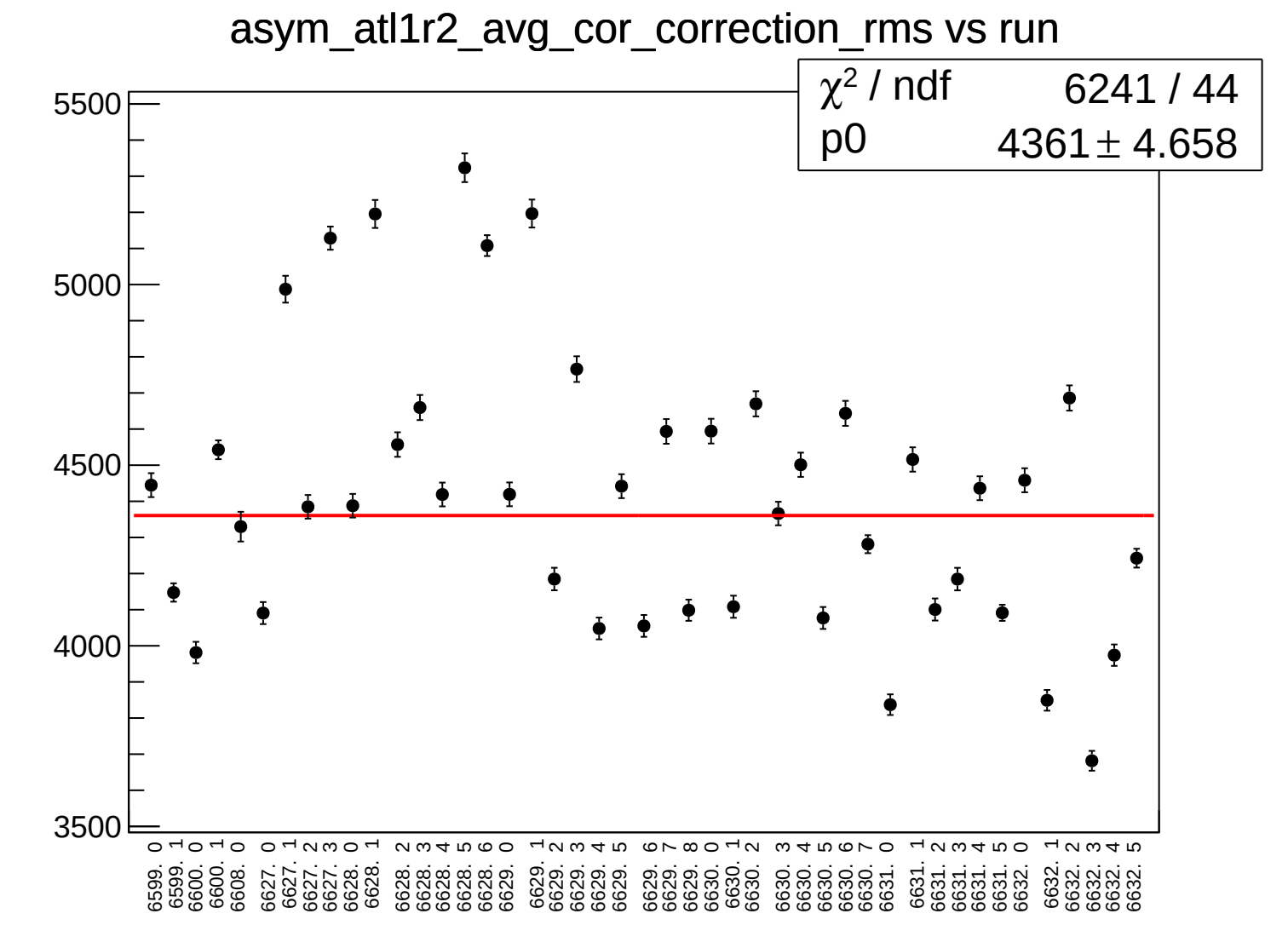
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −78.22
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01967
Std Dev 1.172
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 6241 / 44
p0 4361 ± 4.658
5500
5000
4500
4000
3500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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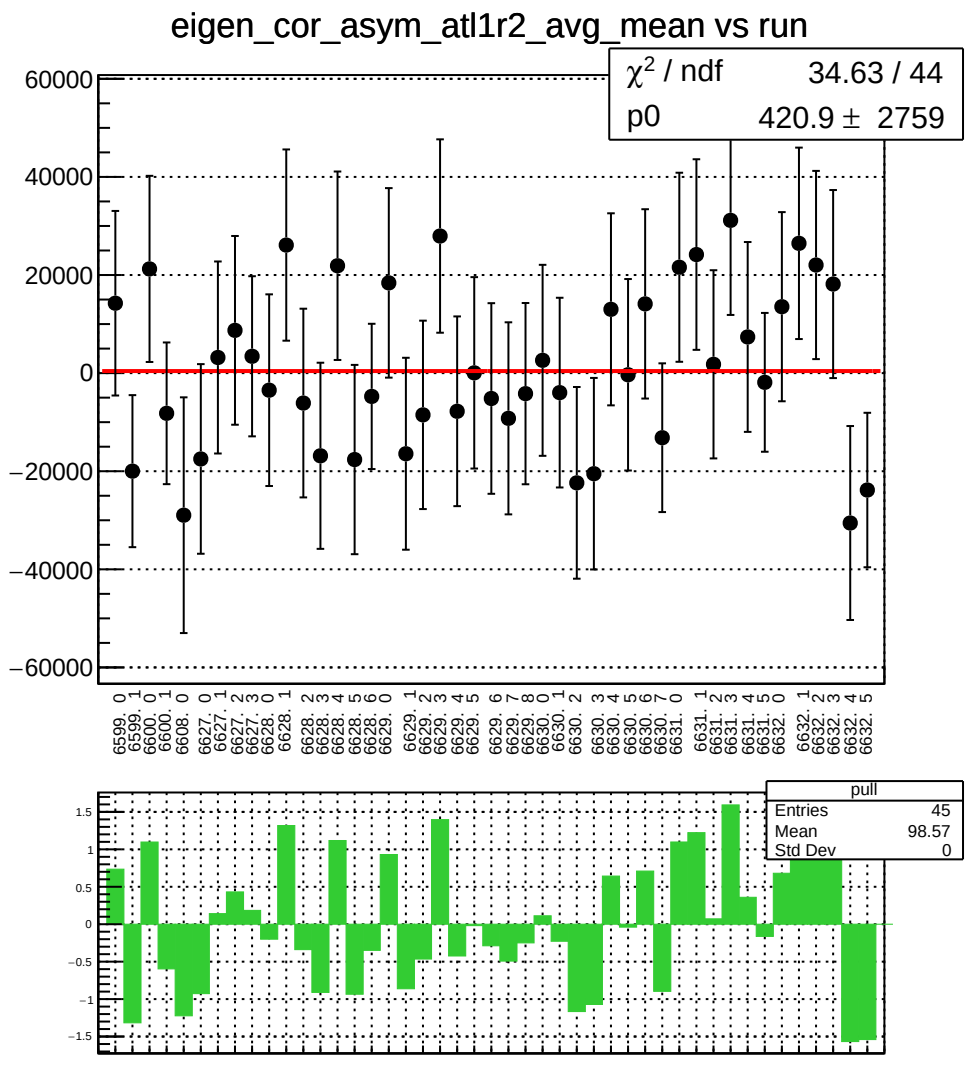
6632. 5


eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 34.63 / 44
p0 420.9 ± 2759
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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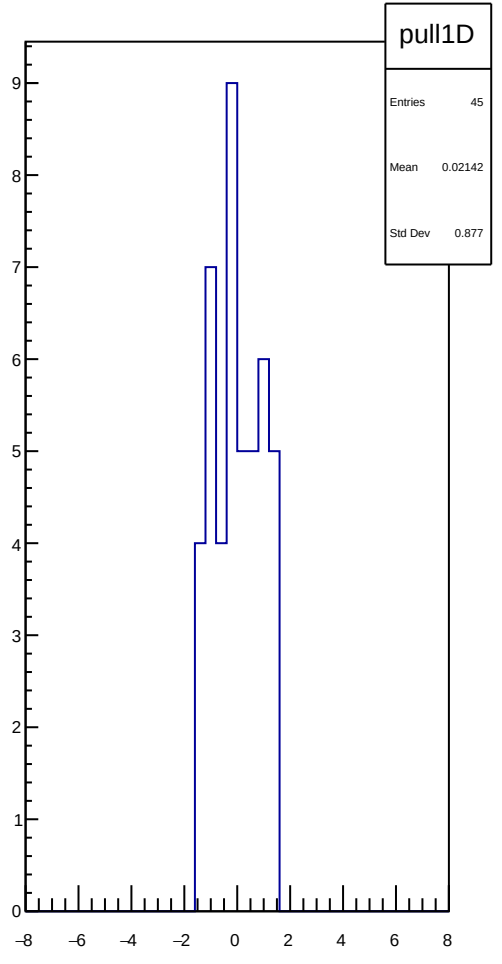
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 98.57
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.02142
Std Dev 0.877
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
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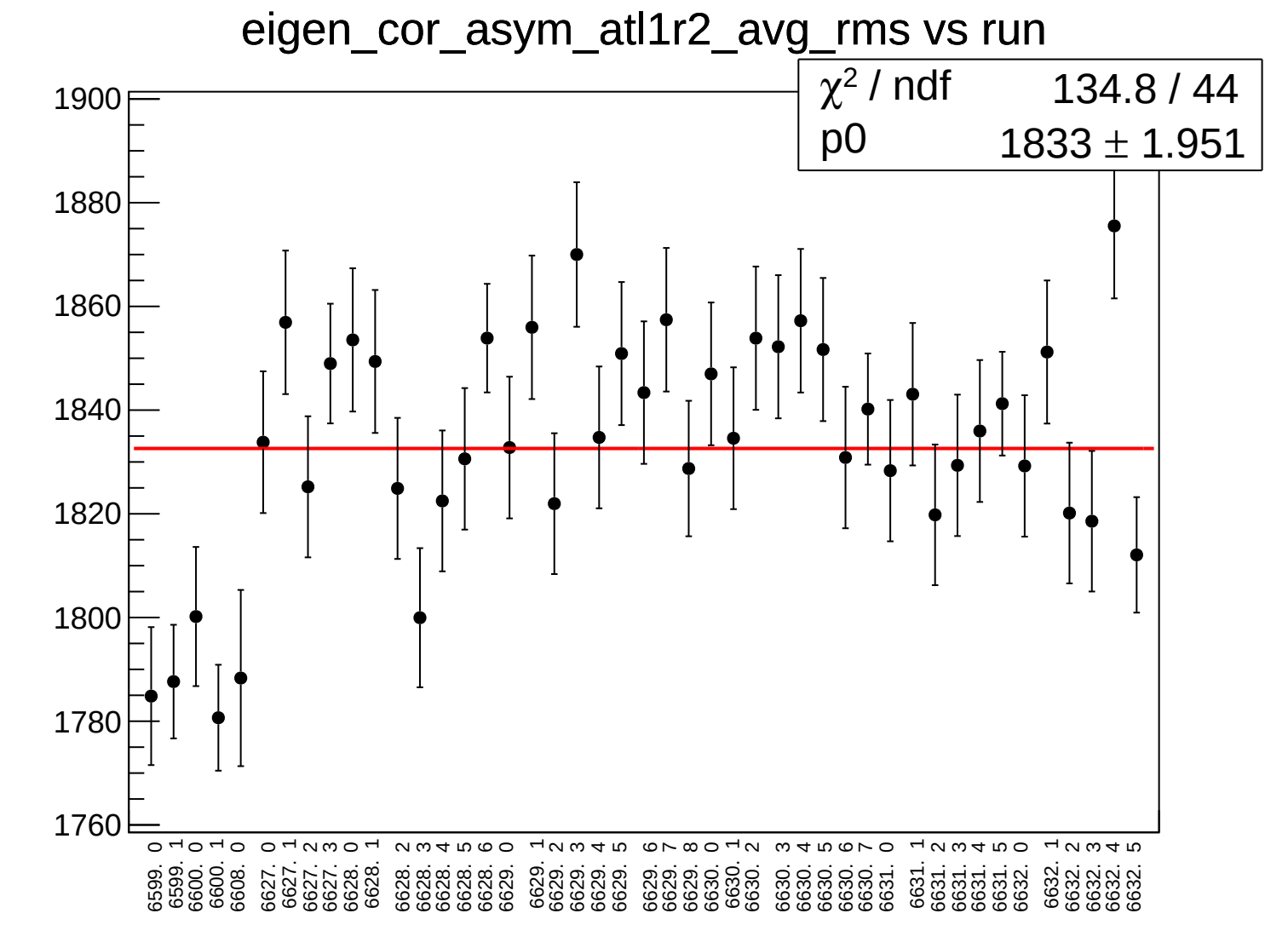
6
8


eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 134.8 / 44
p0 1833 ± 1.951
1900
1880
1860
1840
1820
1800
1780
1760
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6632. 0
6632. 1
6632. 2
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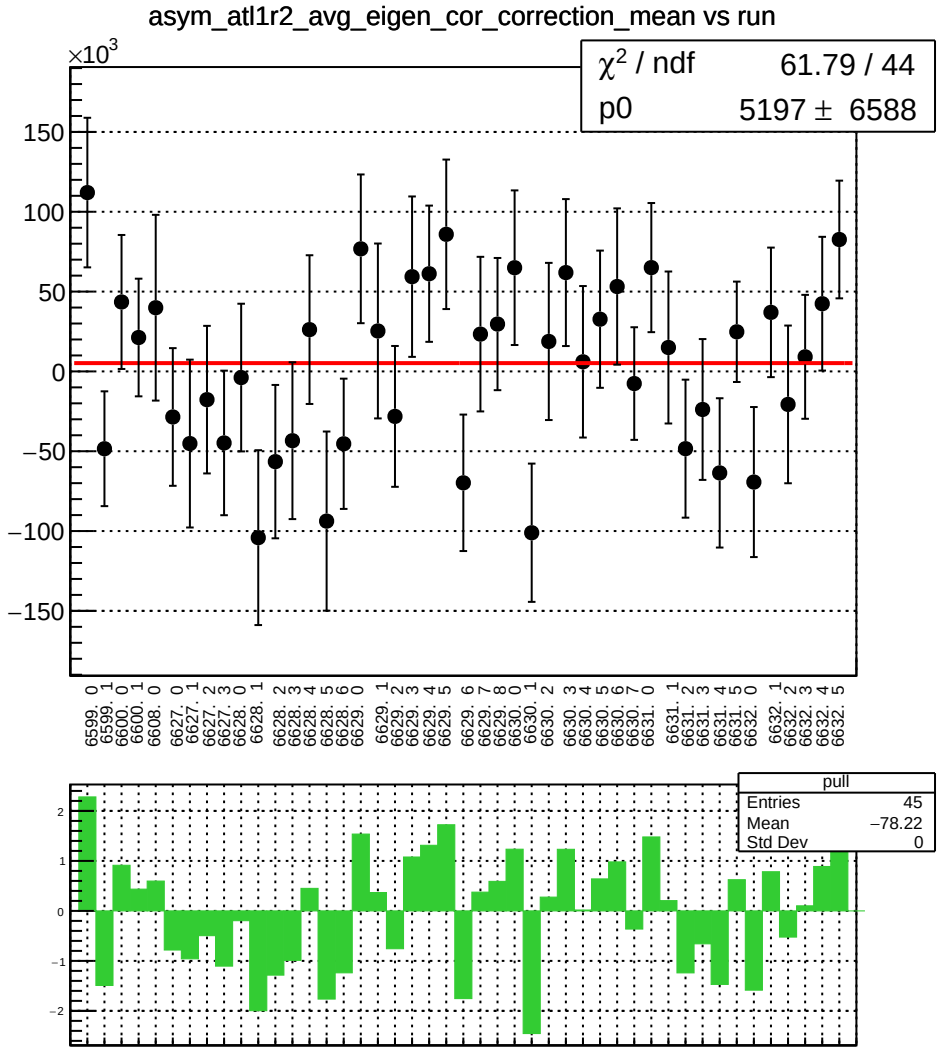
6632. 4
6632. 5


asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 61.79 / 44
p0 5197 ± 6588
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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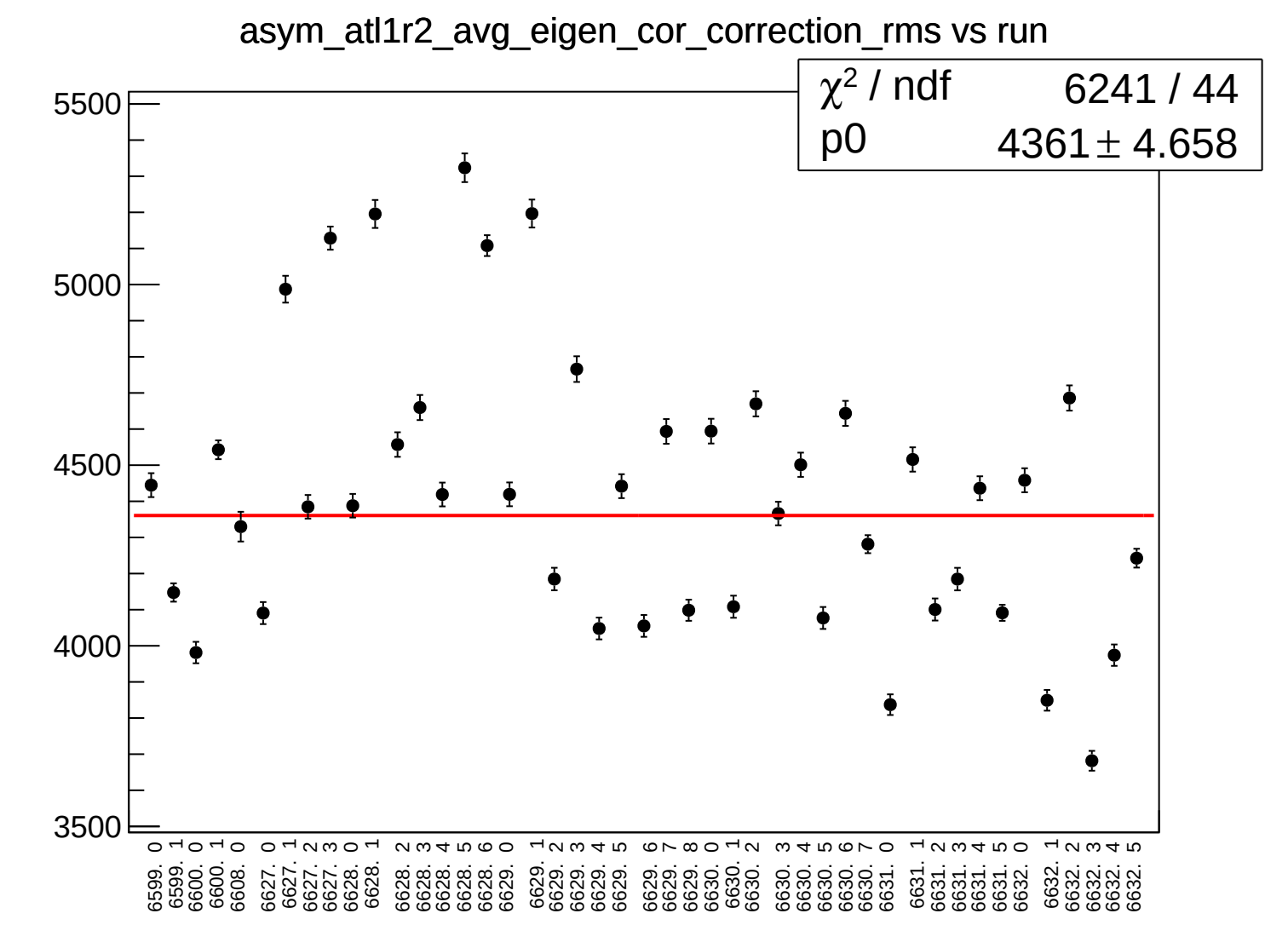
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −78.22
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01967
Std Dev 1.172
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 6241 / 44
p0 4361 ± 4.658
5500
5000
4500
4000
3500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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6628. 3
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6628. 5
6628. 6
6629. 0
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6629. 7
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6630. 0
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
6631. 5
6632. 0
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6632. 2
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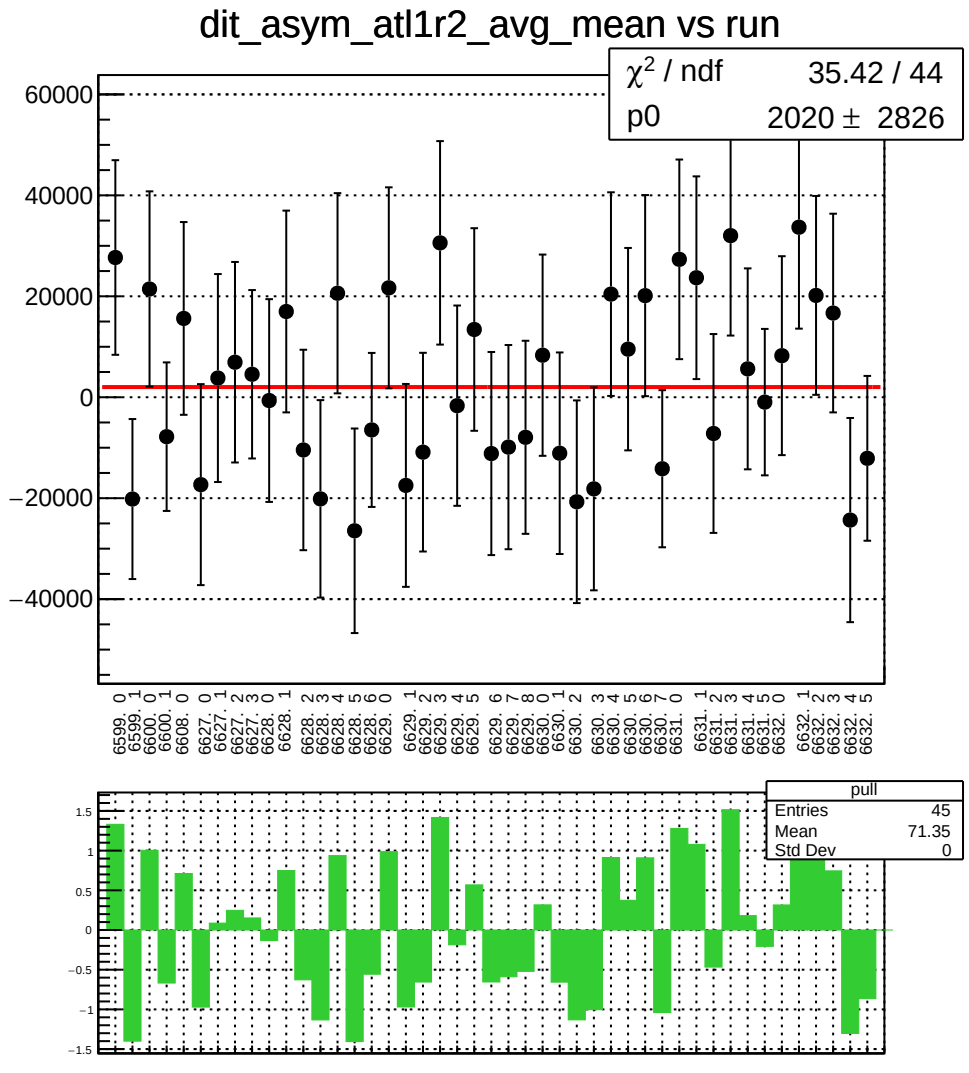
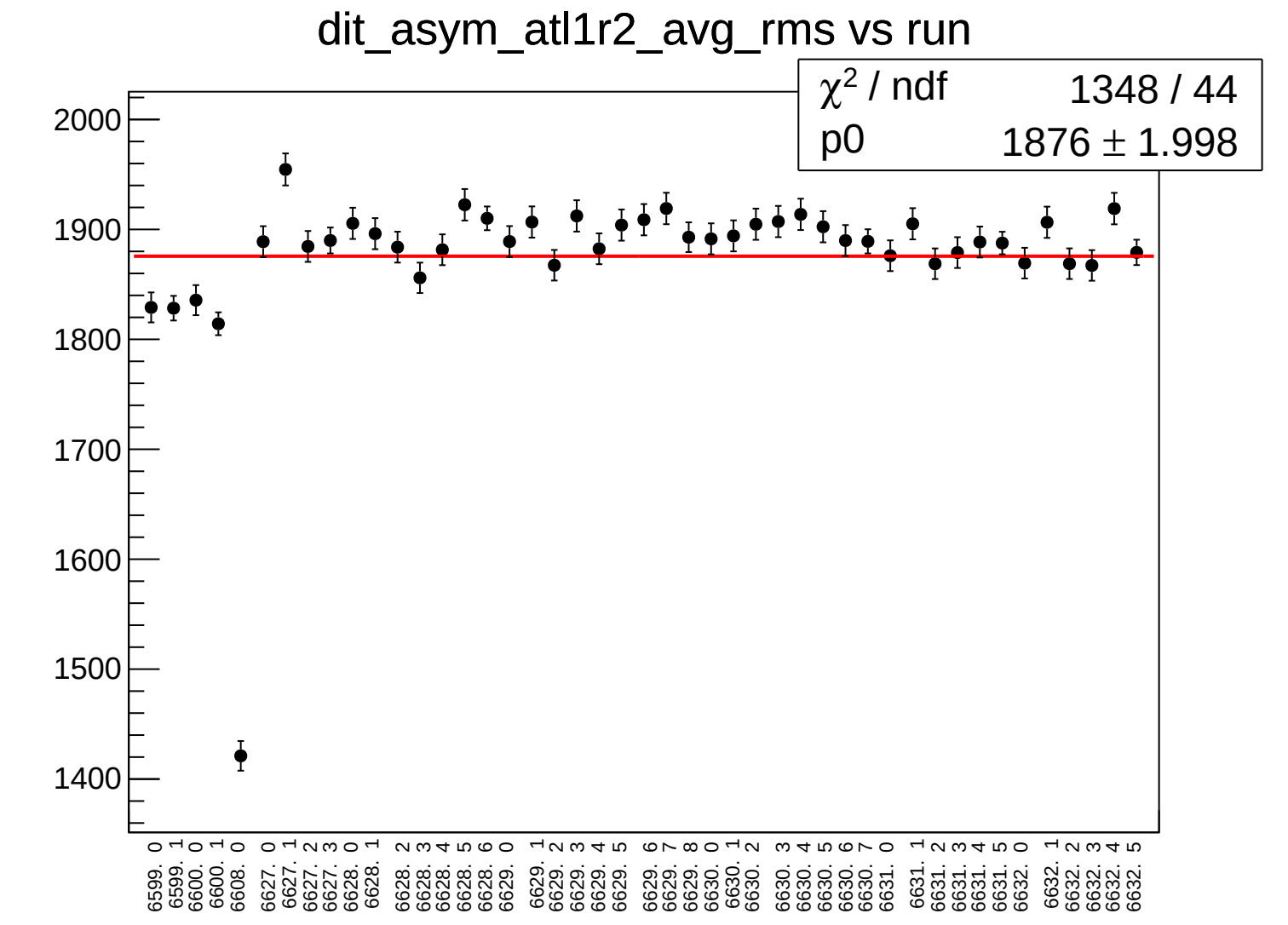
6632. 4
6632. 5


dit_asym_atl1r2_avg_mean vs run
χ² / ndf 35.42 / 44
p0 2020 ± 2826
60000
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 71.35
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.02615
Std Dev 0.8869
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atl1r2_avg_rms vs run
χ² / ndf 1348 / 44
p0 1876 ± 1.998
2000
1900
1800
1700
1600
1500
1400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 5
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6630. 0
6630. 1
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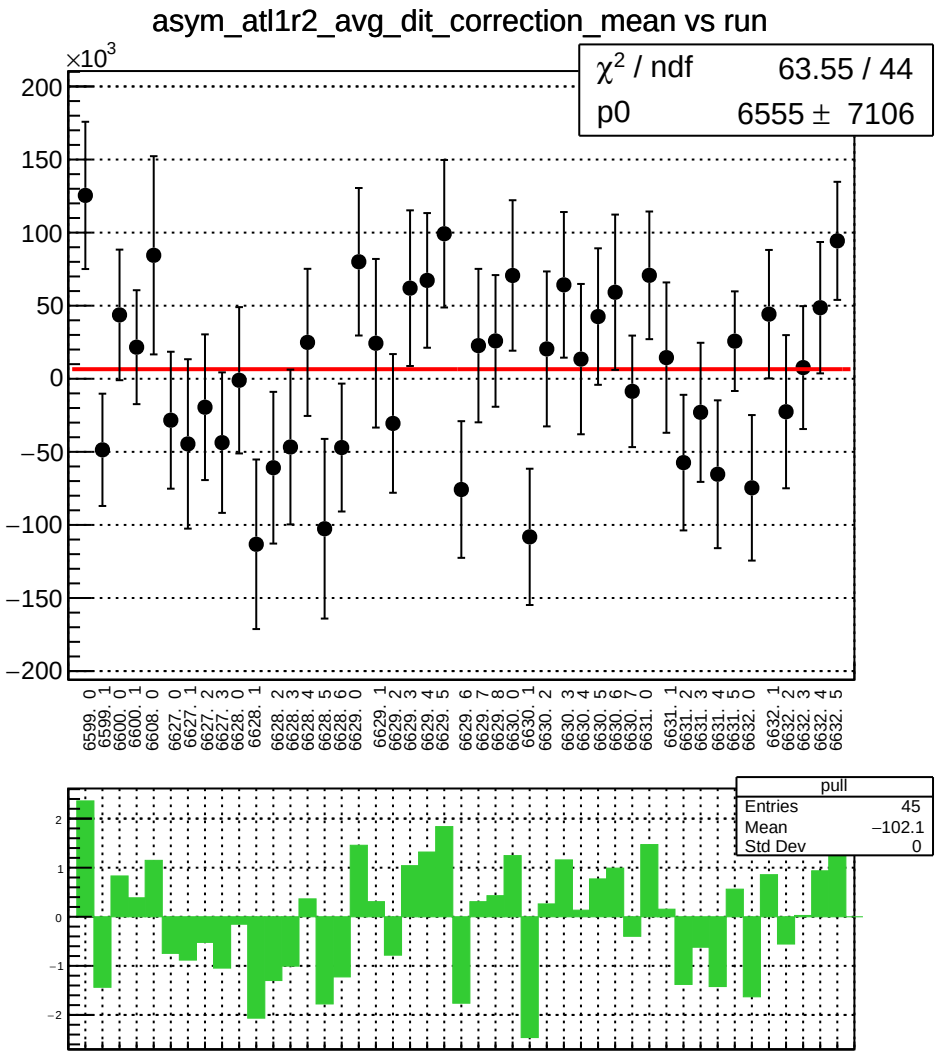
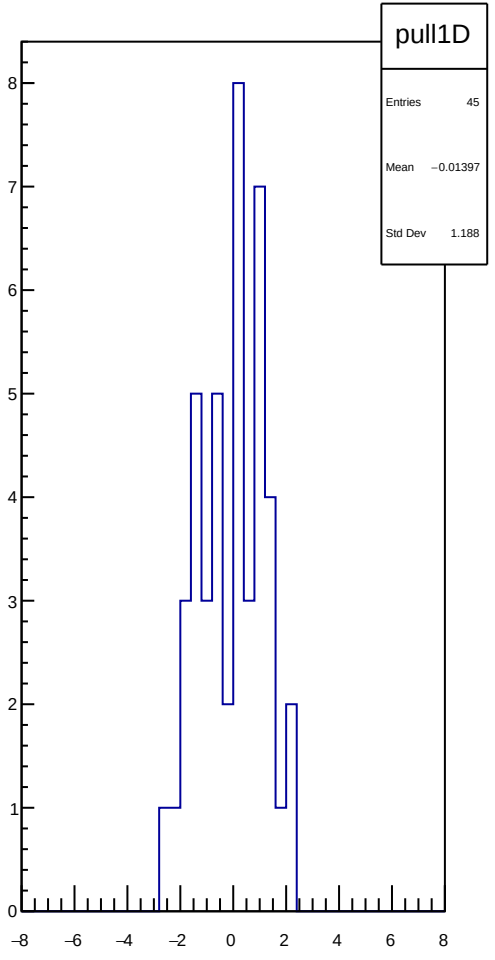
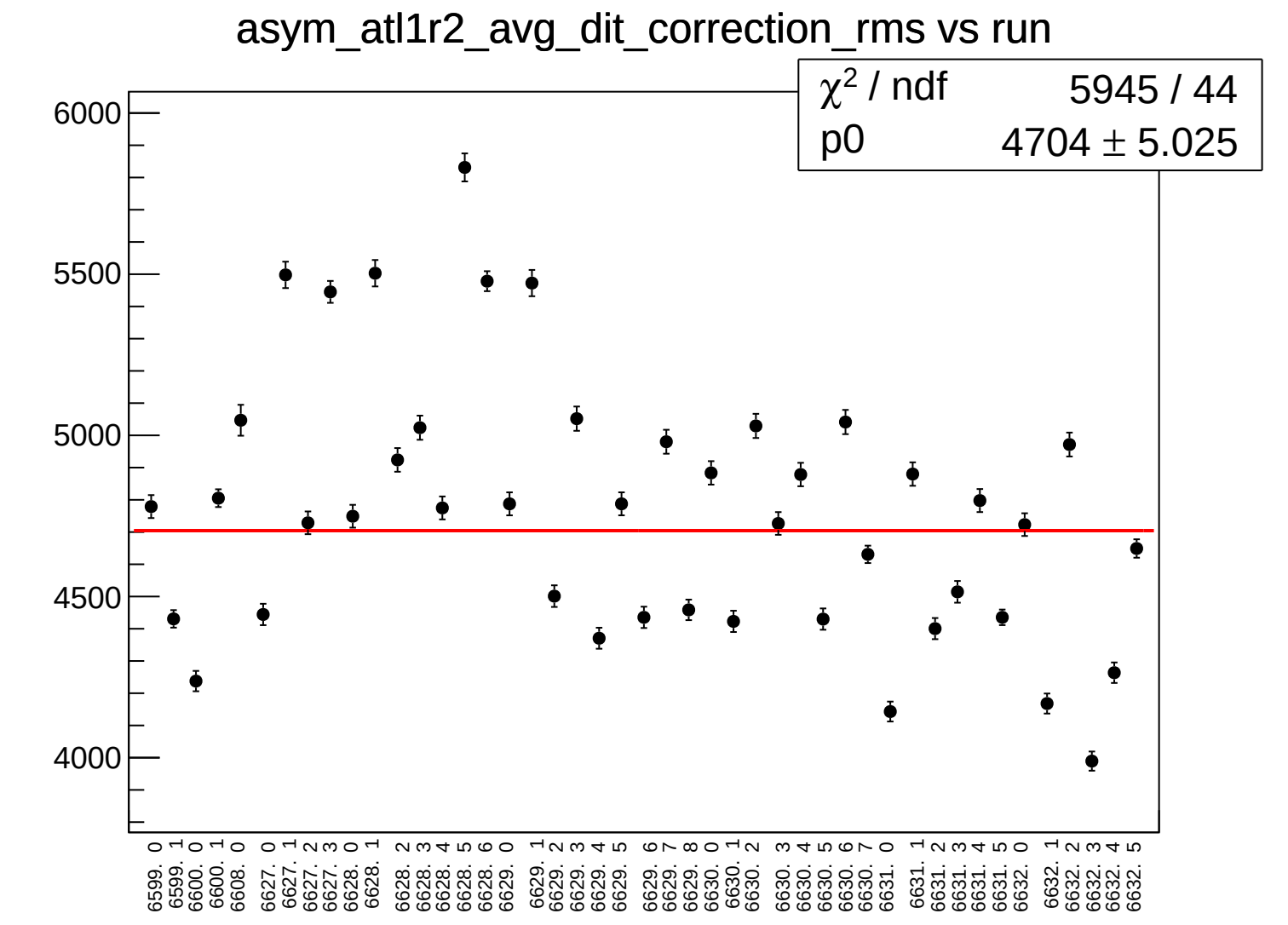
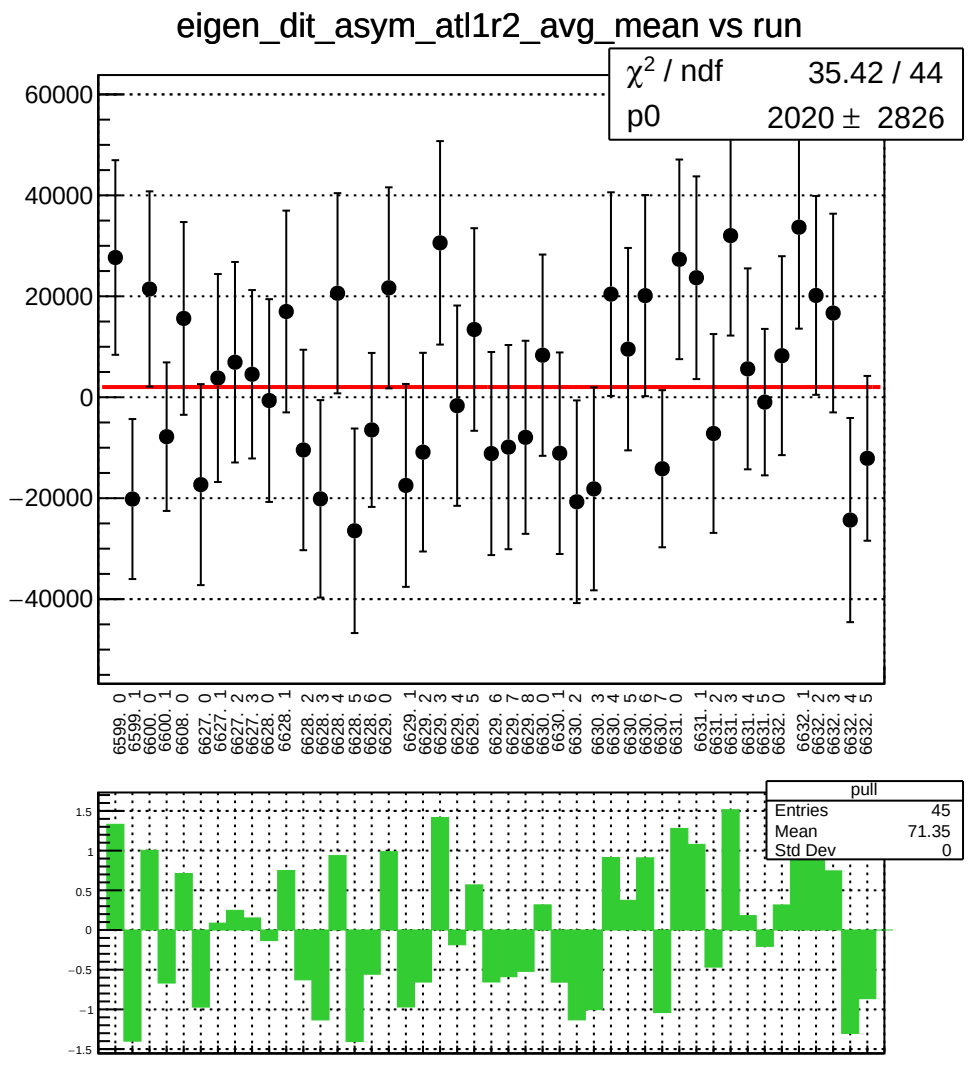
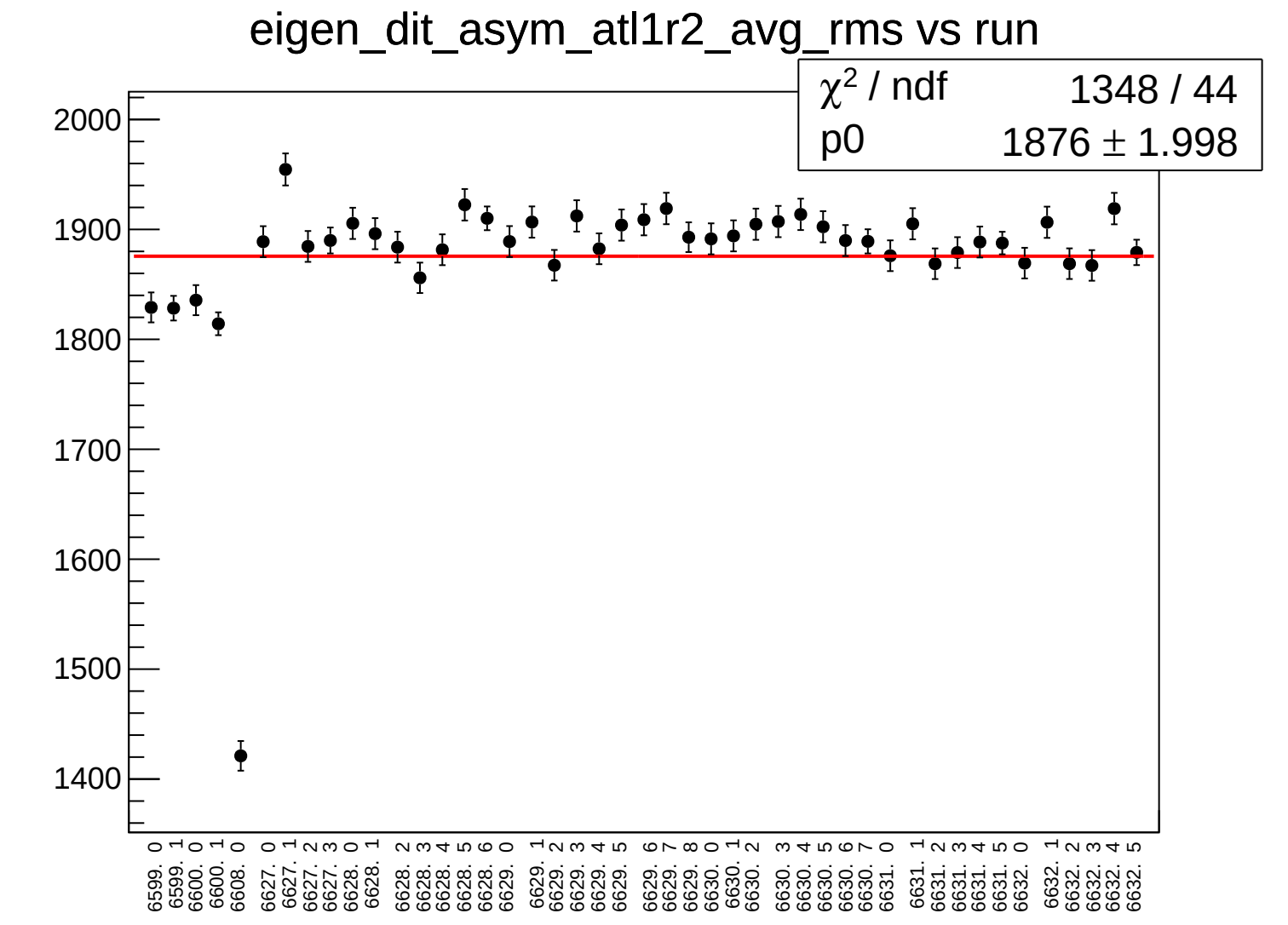
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

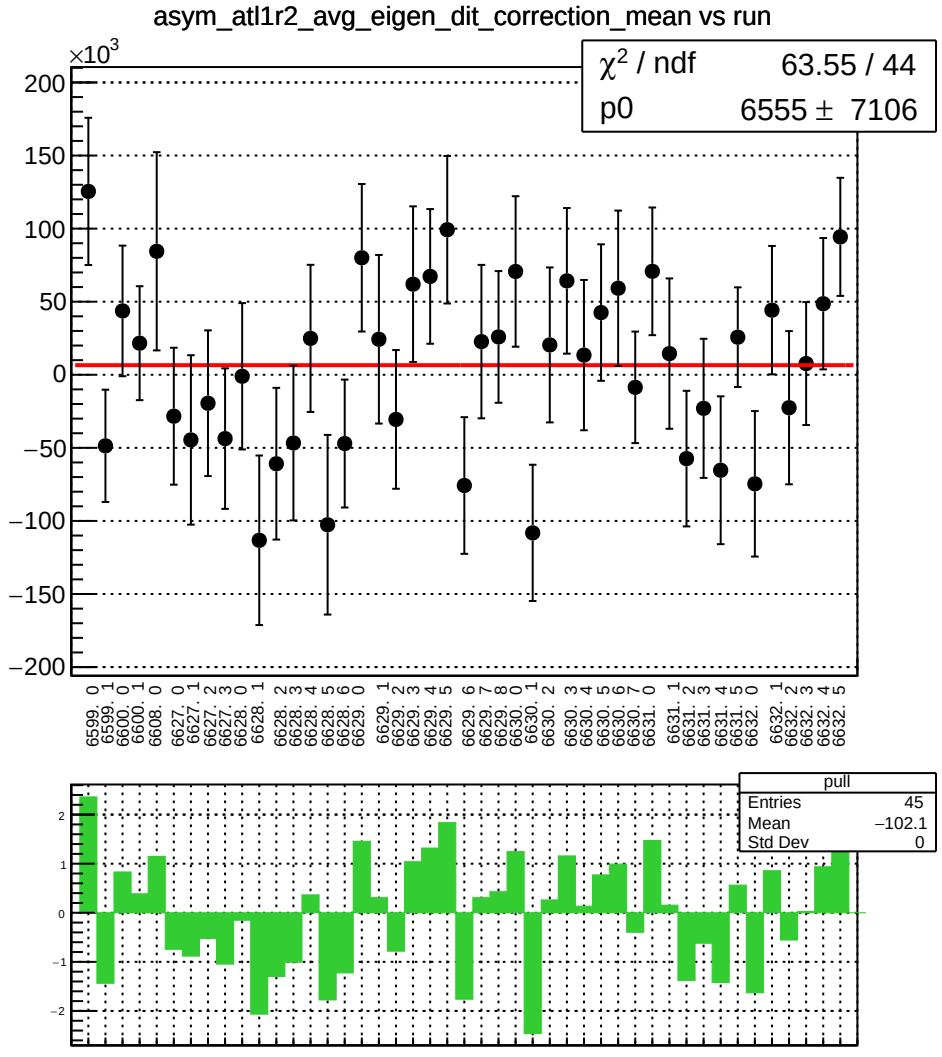

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 63.55 / 44
p0 6555 ± 7106
pull
Entries 45
Mean −102.1
Std Dev 0

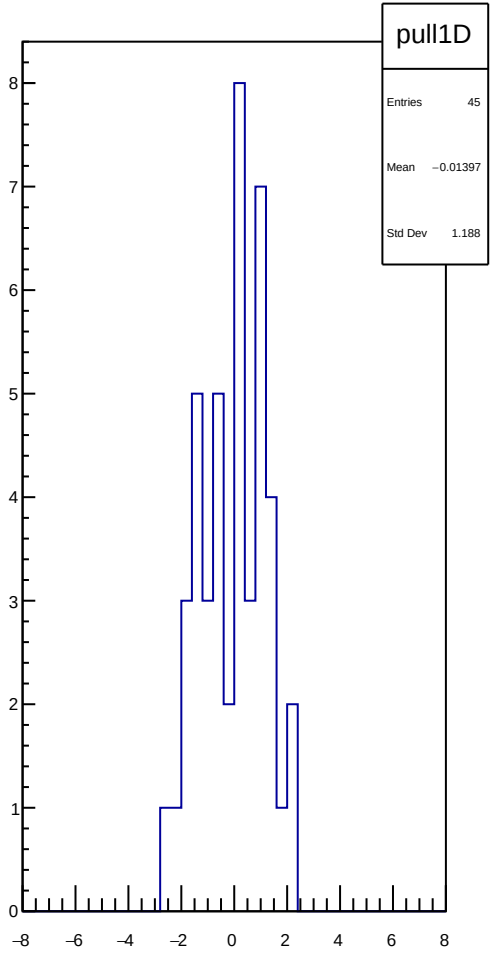

pull1D
Entries 45
Mean −0.01397
Std Dev 1.188

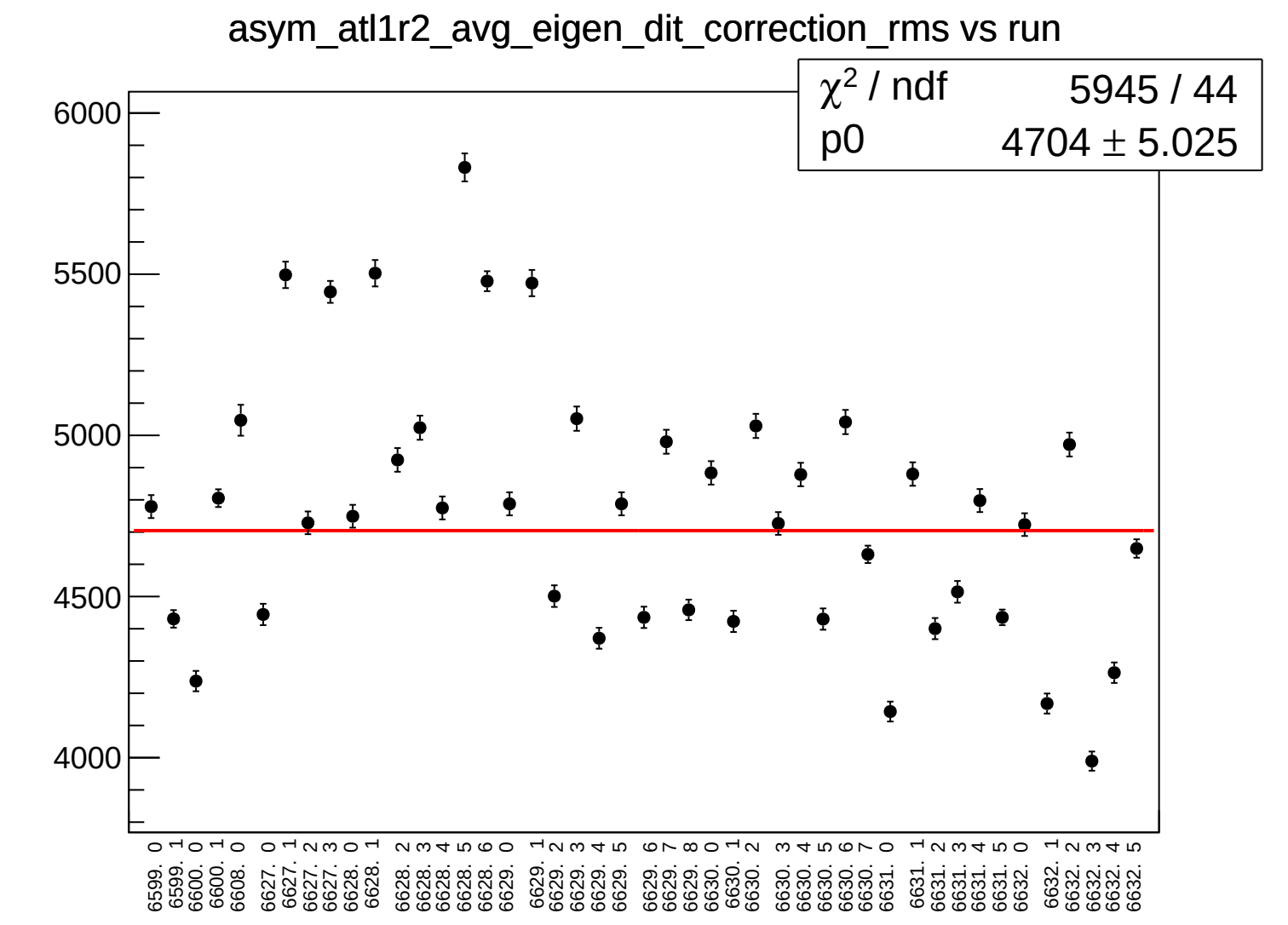

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 5945 / 44
p0 4704 ± 5.025
6000
5500
5000
4500
4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 35.42 / 44
p0 2020 ± 2826
60000
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 71.35
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.02615
Std Dev 0.8868
9
8
7
6
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 1348 / 44
p0 1876 ± 1.998
2000
1900
1800
1700
1600
1500
1400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 63.55 / 44
p0 6555 ± 7106
200
150
100
50
0
−50
−100
−150
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −102.1
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.01397
Std Dev 1.188
8
7
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 5945 / 44
p0 4704 ± 5.025
6000
5500
5000
4500
4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
6632. 0
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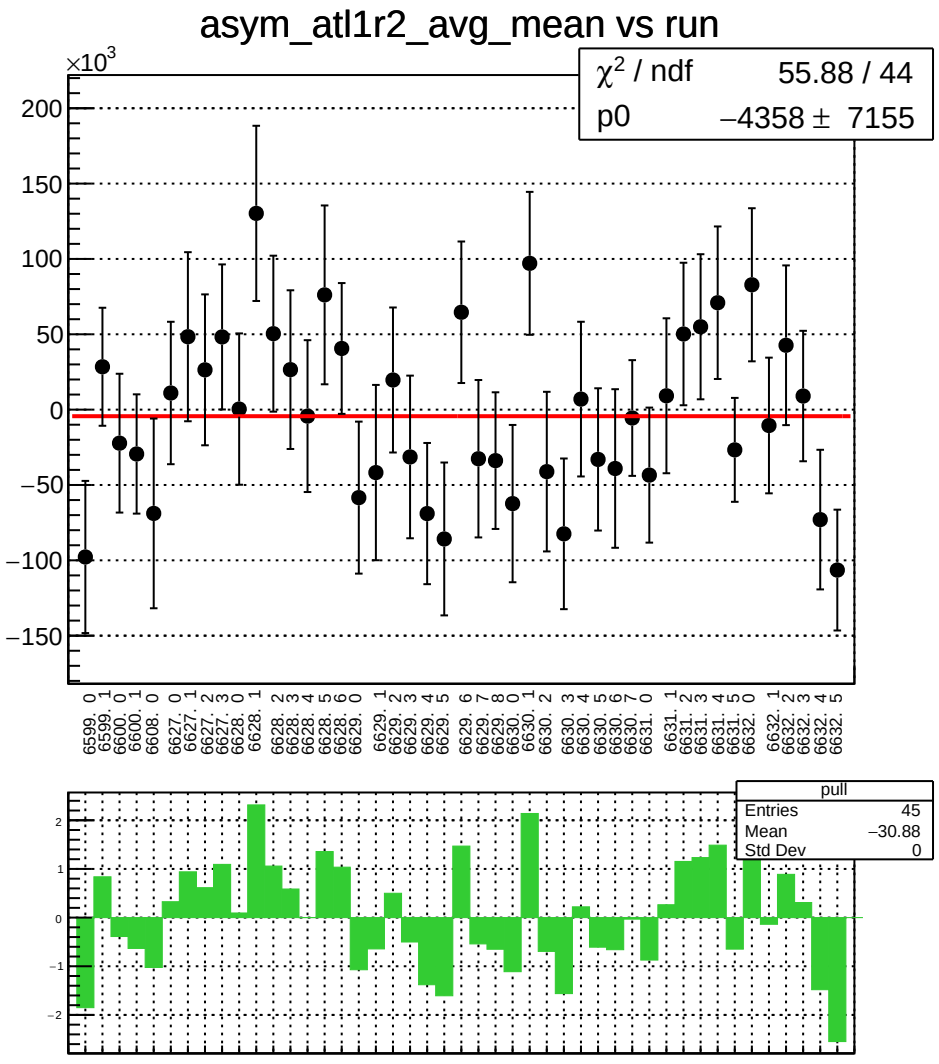
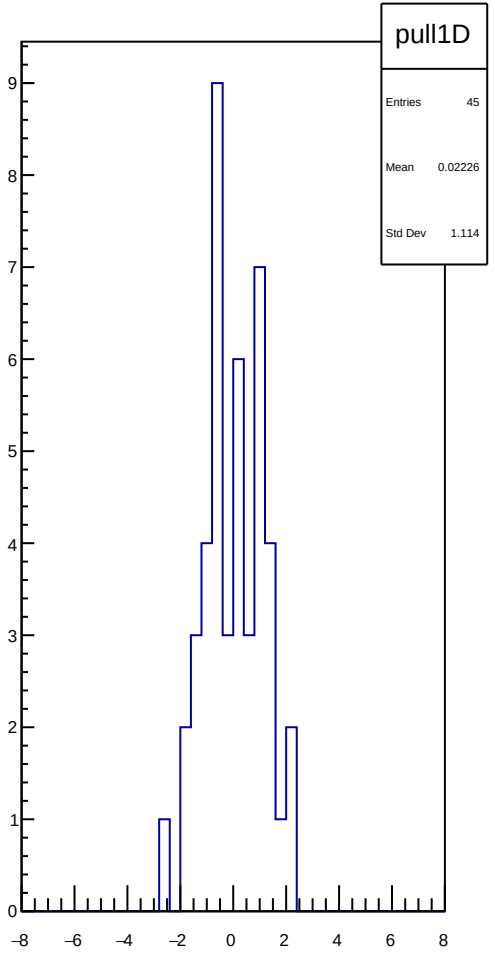
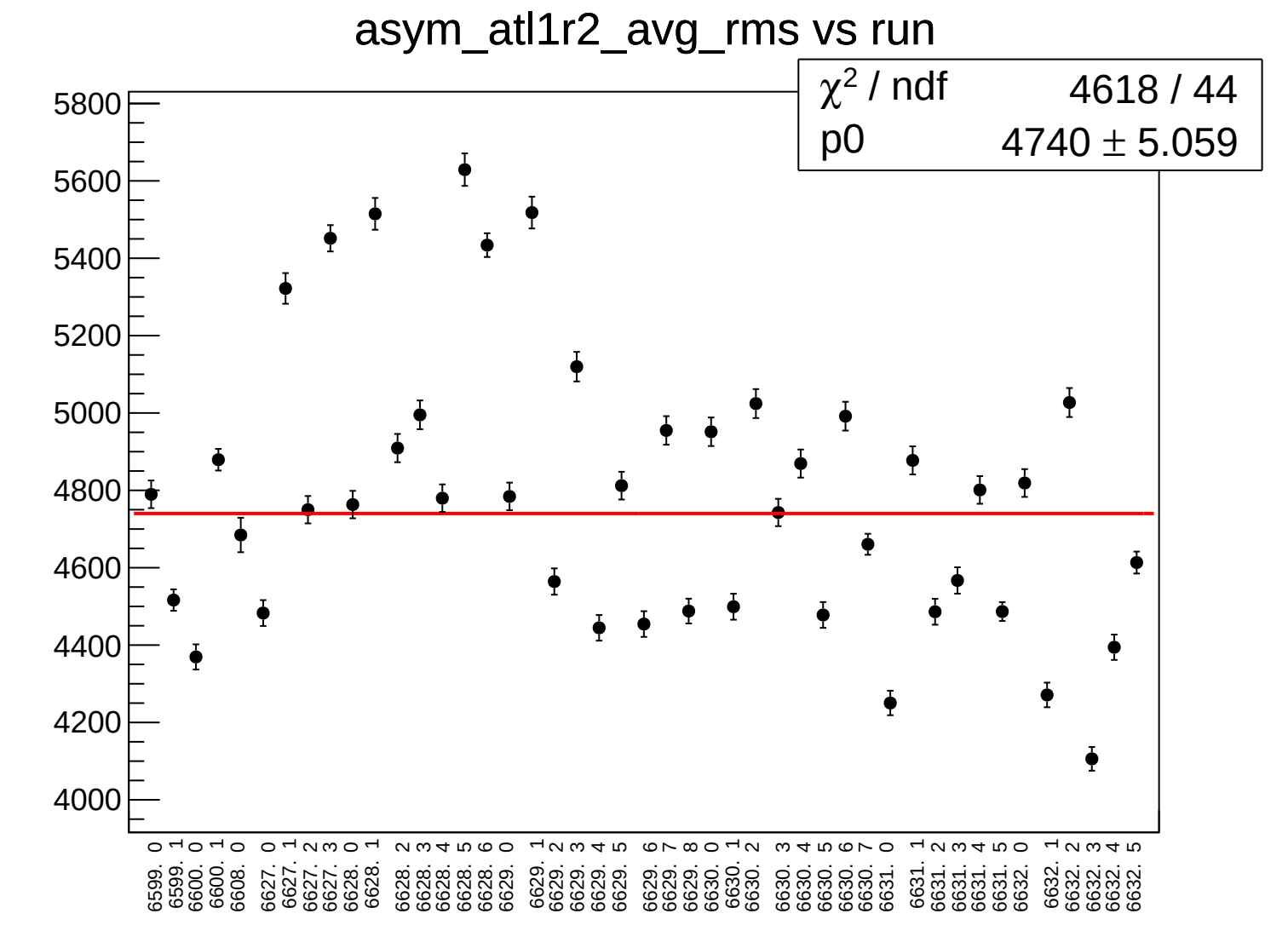
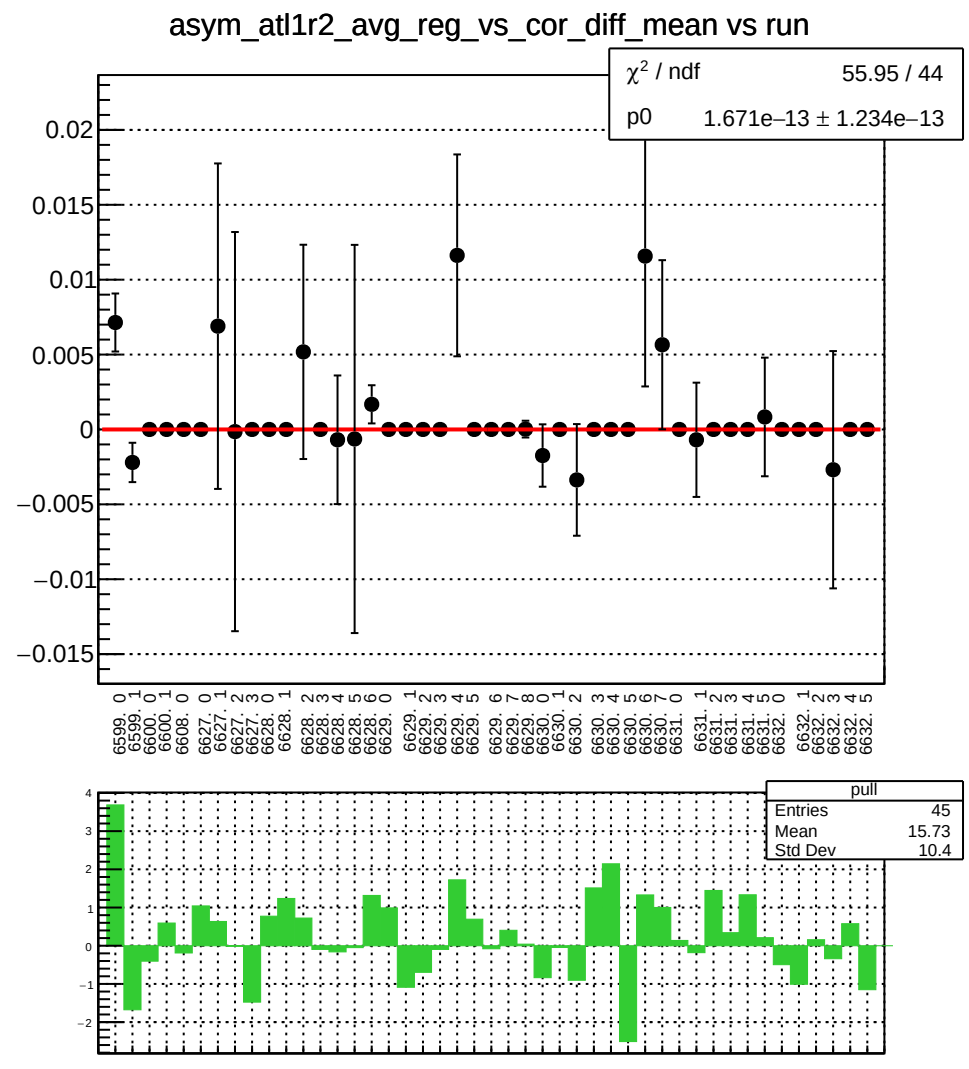
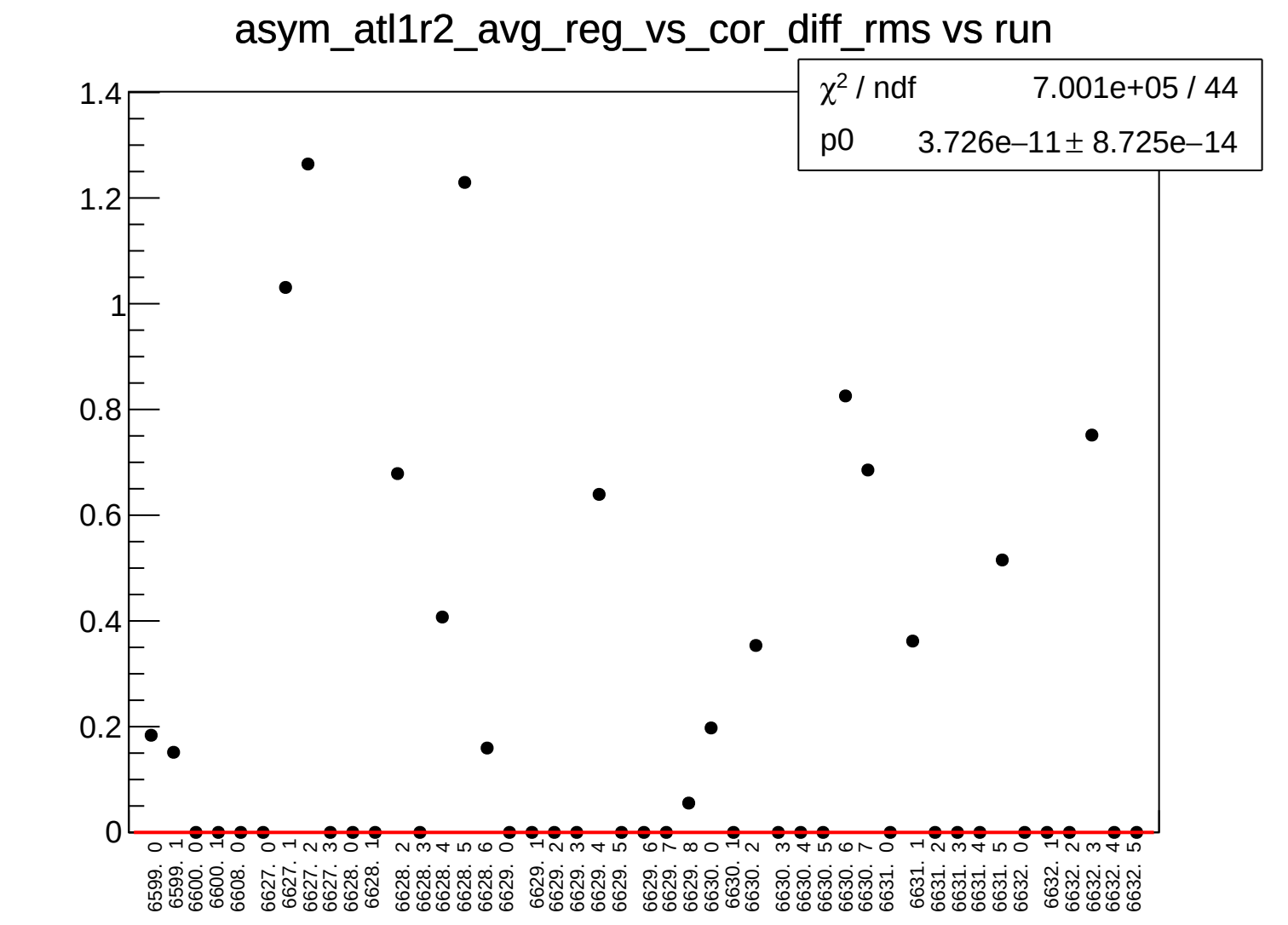
6632. 2
6632. 3
6632. 4
6632. 5

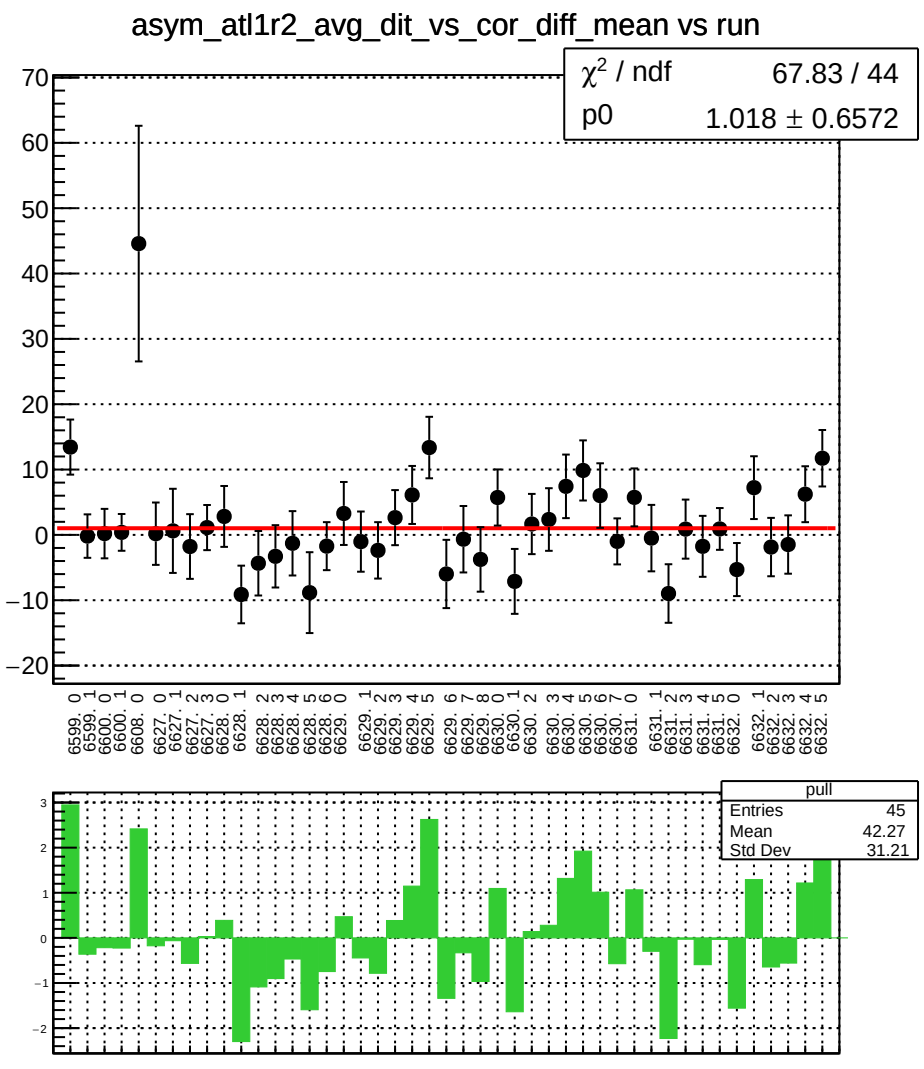

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 55.88 / 44
p0 −4358 ± 7155
200
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −30.88
Std Dev 0
2
1
0
−1
−2

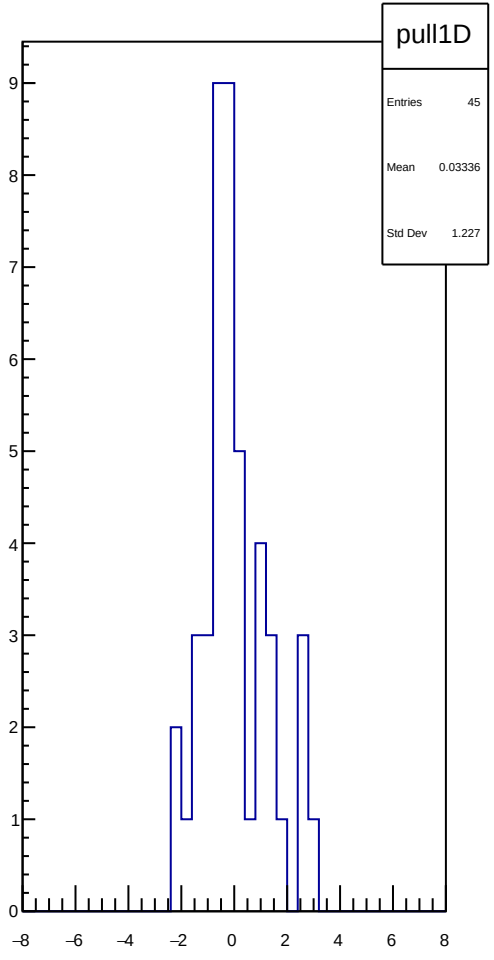

pull1D
Entries 45
Mean 0.02226
Std Dev 1.114
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

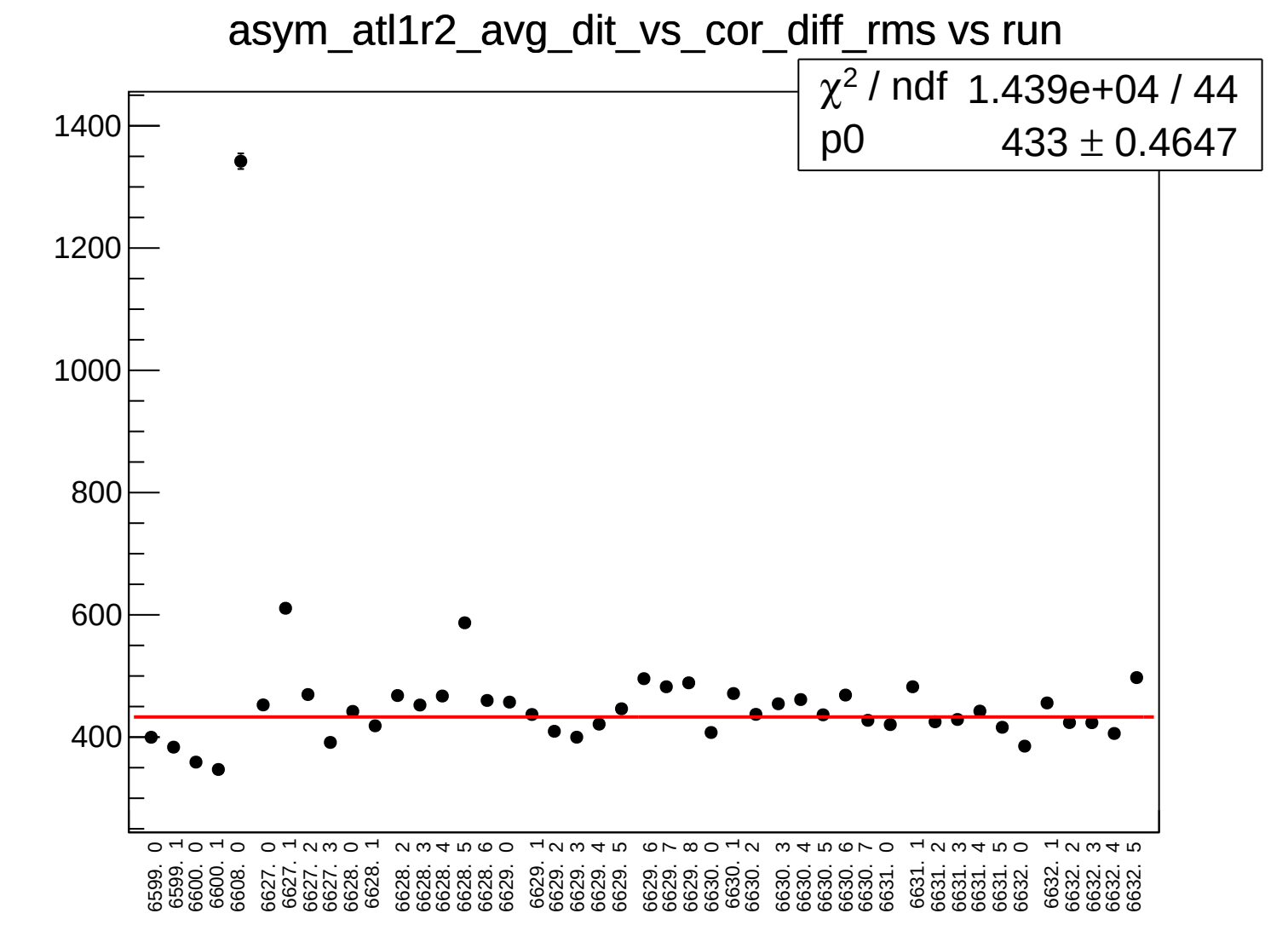

asym_atl1r2_avg_rms vs run
χ² / ndf 4618 / 44
p0 4740 ± 5.059
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

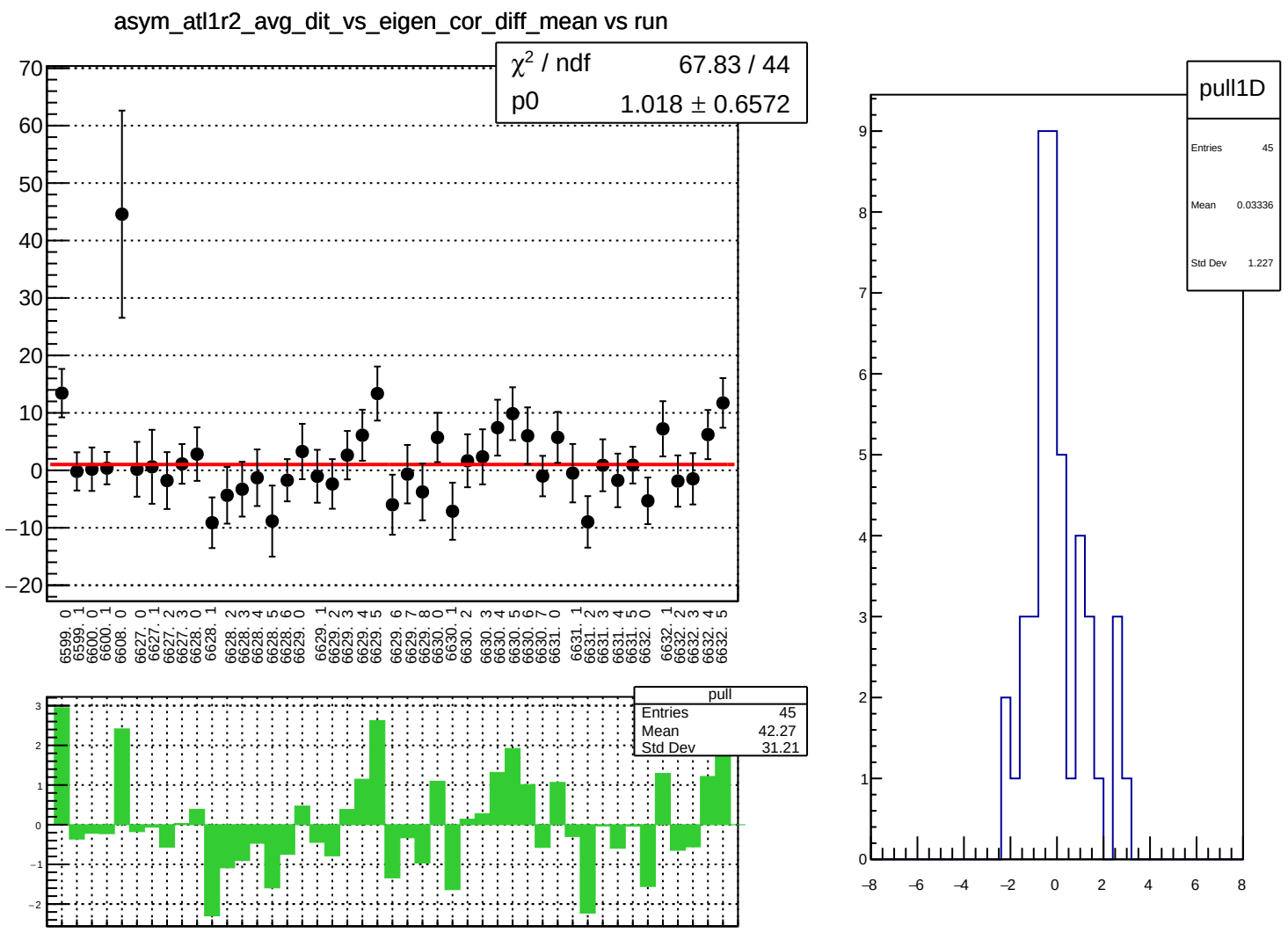

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 55.95 / 44
p0 1.671e−13 ± 1.234e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 15.73
Std Dev 10.4
4
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.2348
Std Dev 1.09
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

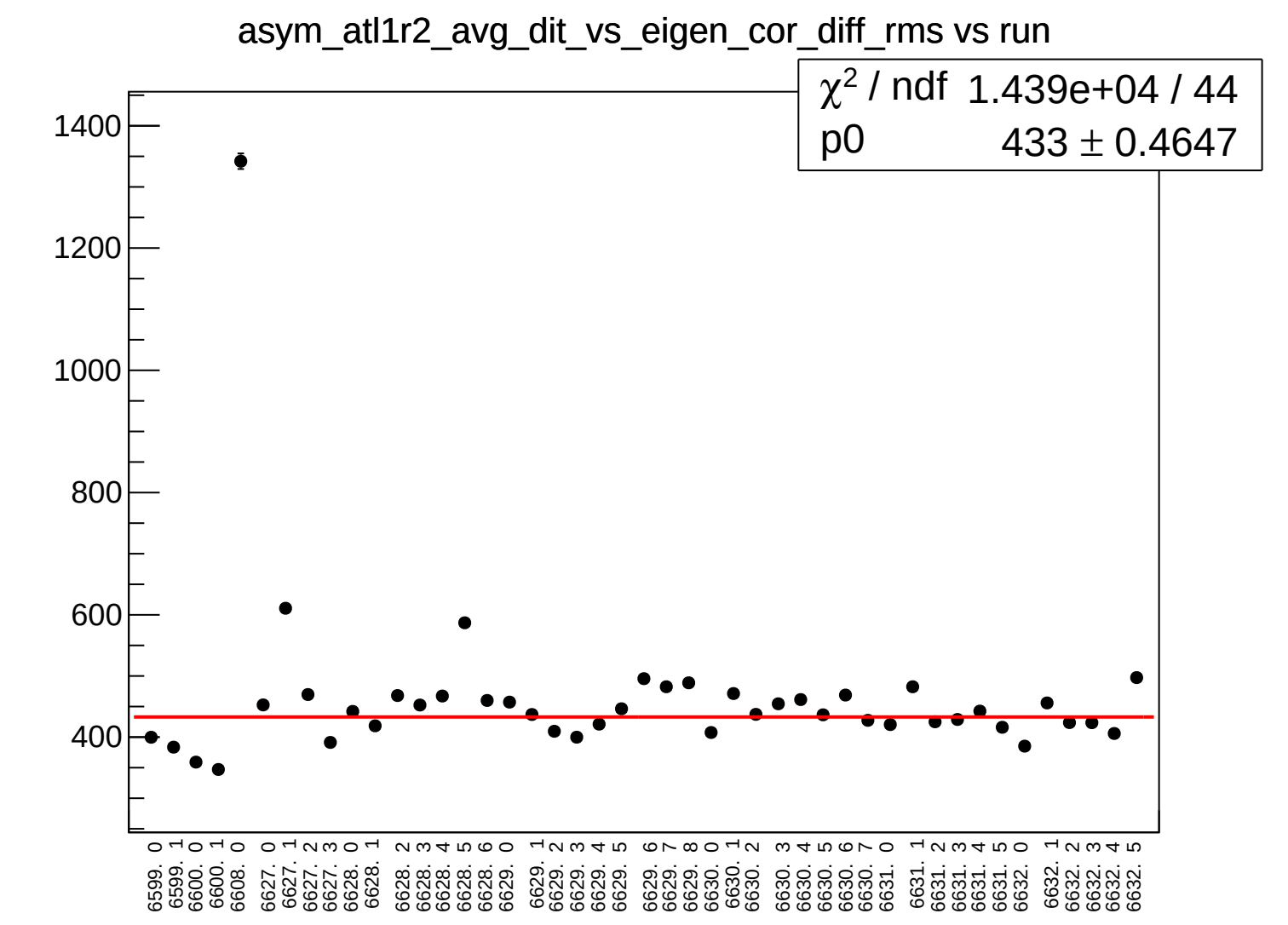

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
$\chi^2$ / ndf 7.001e+05 / 44
p0 3.726e−11 ± 8.725e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

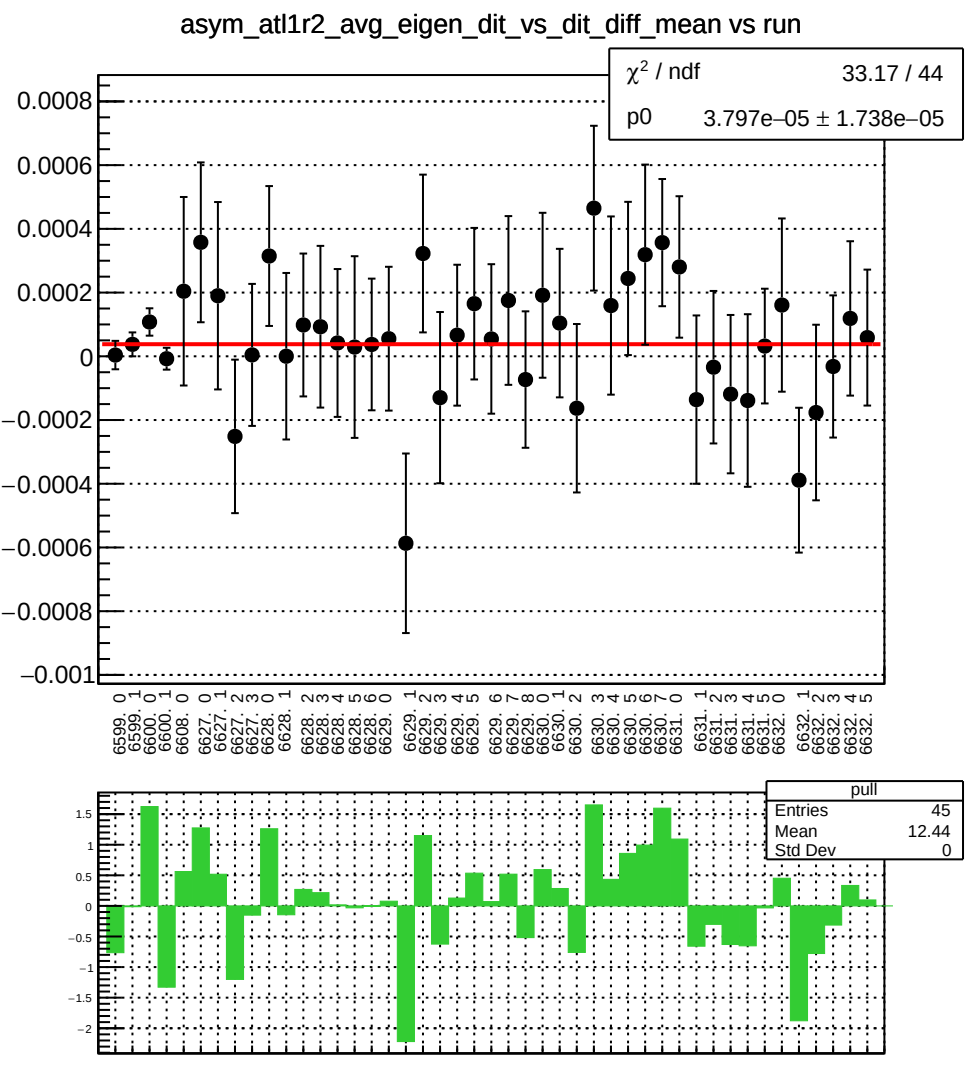

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 67.83 / 44
p0 1.018 ± 0.6572
pull
Entries 45
Mean 42.27
Std Dev 31.21

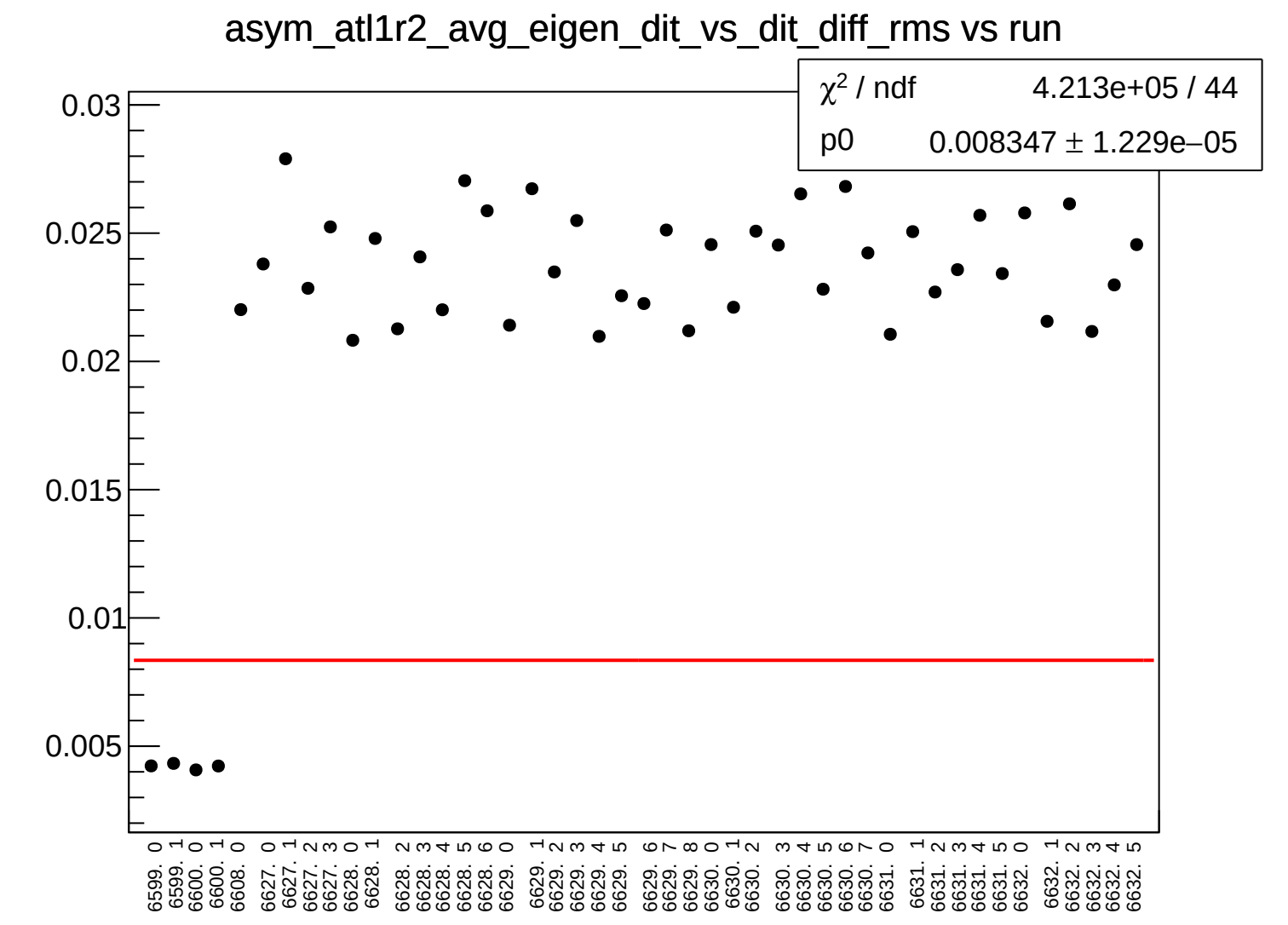

pull1D
Entries 45
Mean 0.03336
Std Dev 1.227


asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.439e+04 / 44
p0 433 ± 0.4647
1400
1200
1000
800
600
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.83 / 44
p0 1.018 ± 0.6572
pull
Entries 45
Mean 42.27
Std Dev 31.21
pull1D
Entries 45
Mean 0.03336
Std Dev 1.227


asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.439e+04 / 44
p0 433 ± 0.4647
1400
1200
1000
800
600
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 33.17 / 44
p0 3.797e−05 ± 1.738e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 12.44
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.08007
Std Dev 0.8548
9
8
7
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 4.213e+05 / 44
p0 0.008347 ± 1.229e−05
0.03
0.025
0.02
0.015
0.01
0.005
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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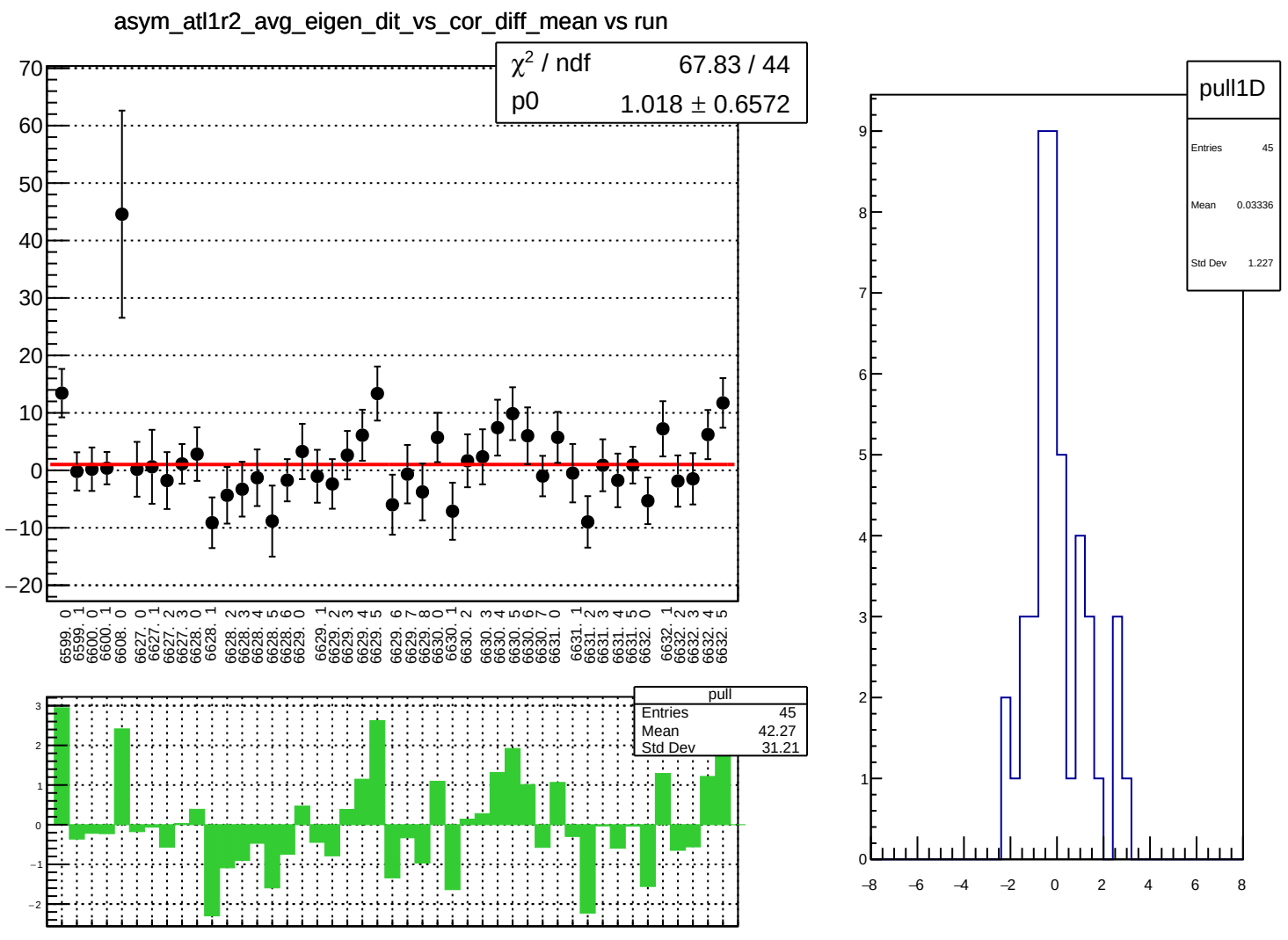
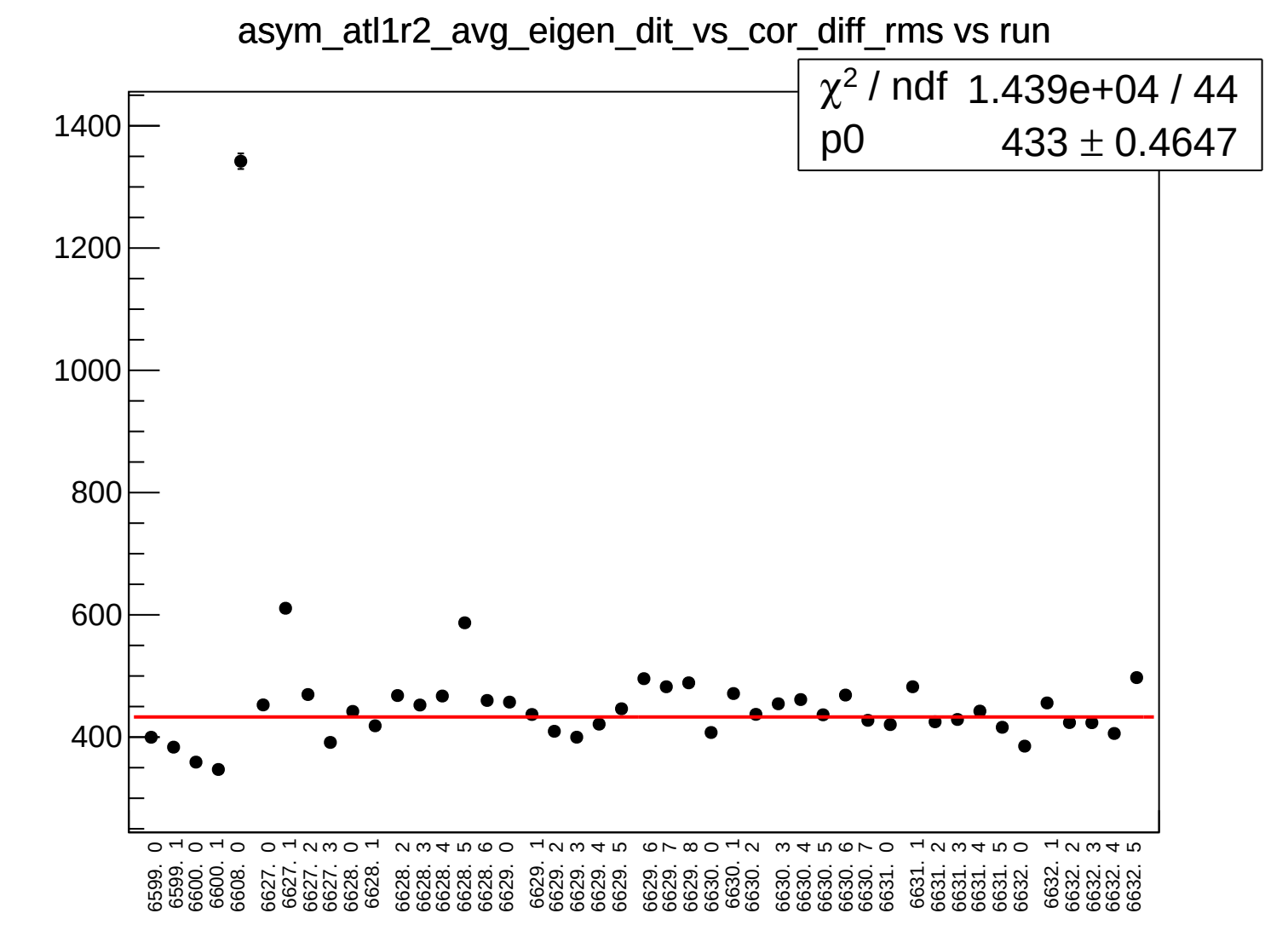
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.83 / 44
p0 1.018 ± 0.6572
pull
Entries 45
Mean 42.27
Std Dev 31.21
pull1D
Entries 45
Mean 0.03336
Std Dev 1.227


asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.439e+04 / 44
p0 433 ± 0.4647
1400
1200
1000
800
600
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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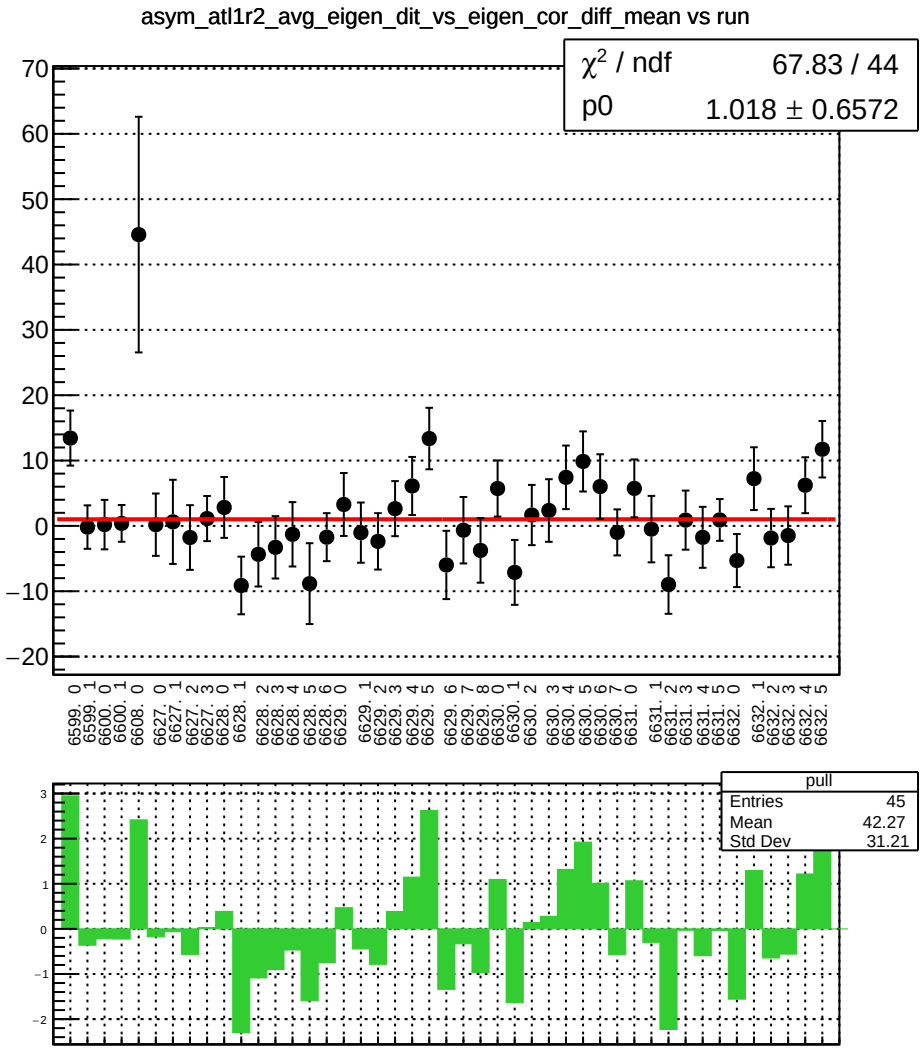
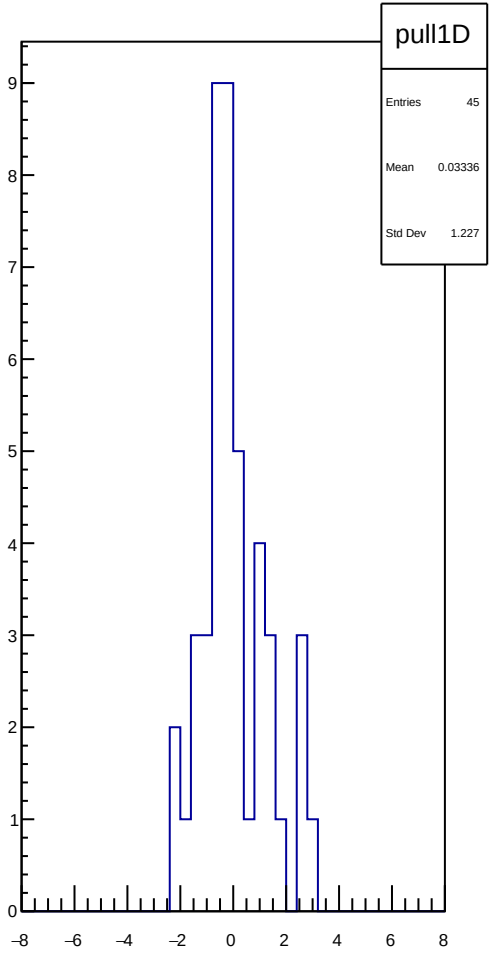
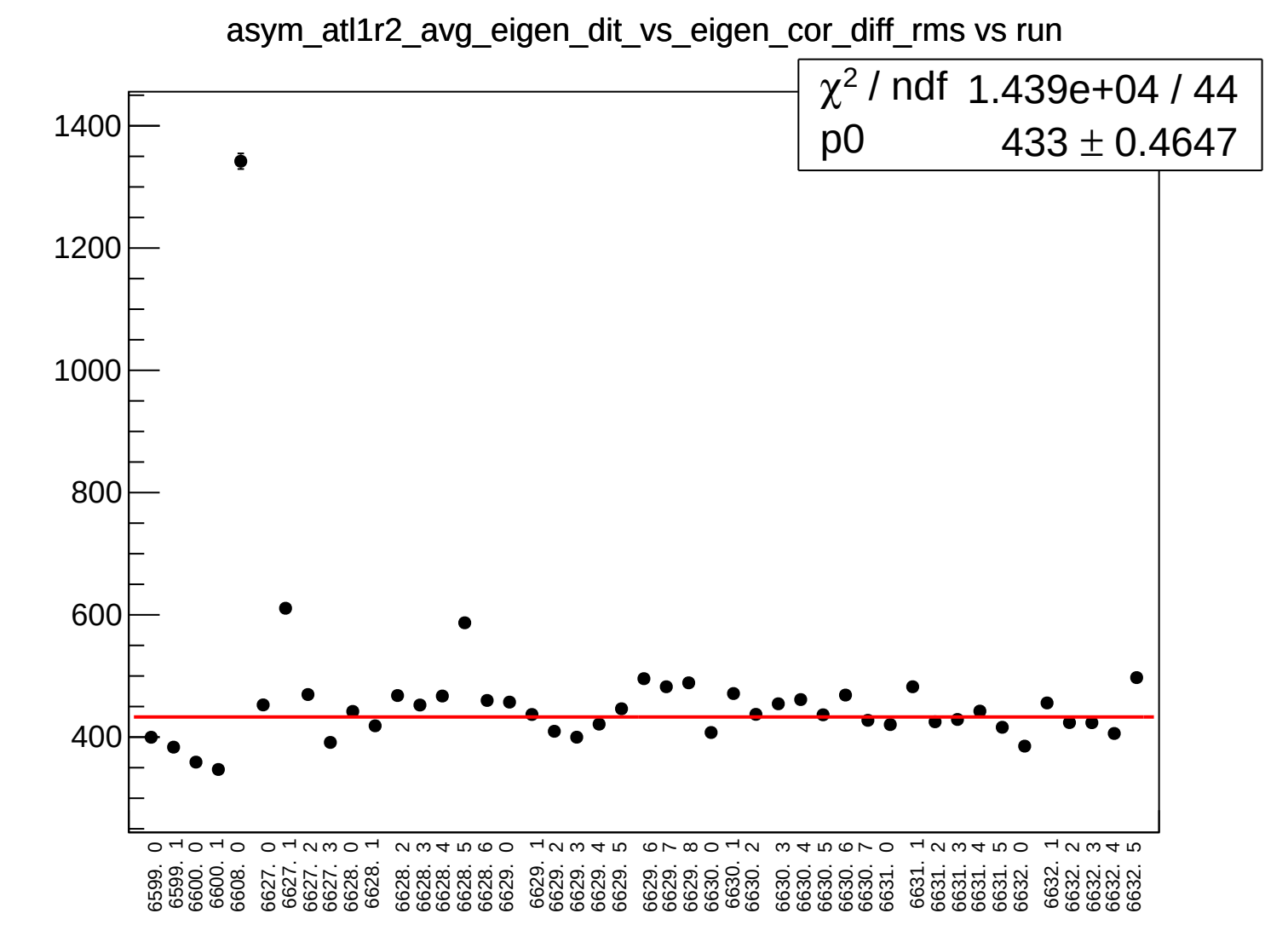
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.83 / 44
p0 1.018 ± 0.6572
pull
Entries 45
Mean 42.27
Std Dev 31.21


pull1D
Entries 45
Mean 0.03336
Std Dev 1.227


asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.439e+04 / 44
p0 433 ± 0.4647
1400
1200
1000
800
600
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
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6632. 0
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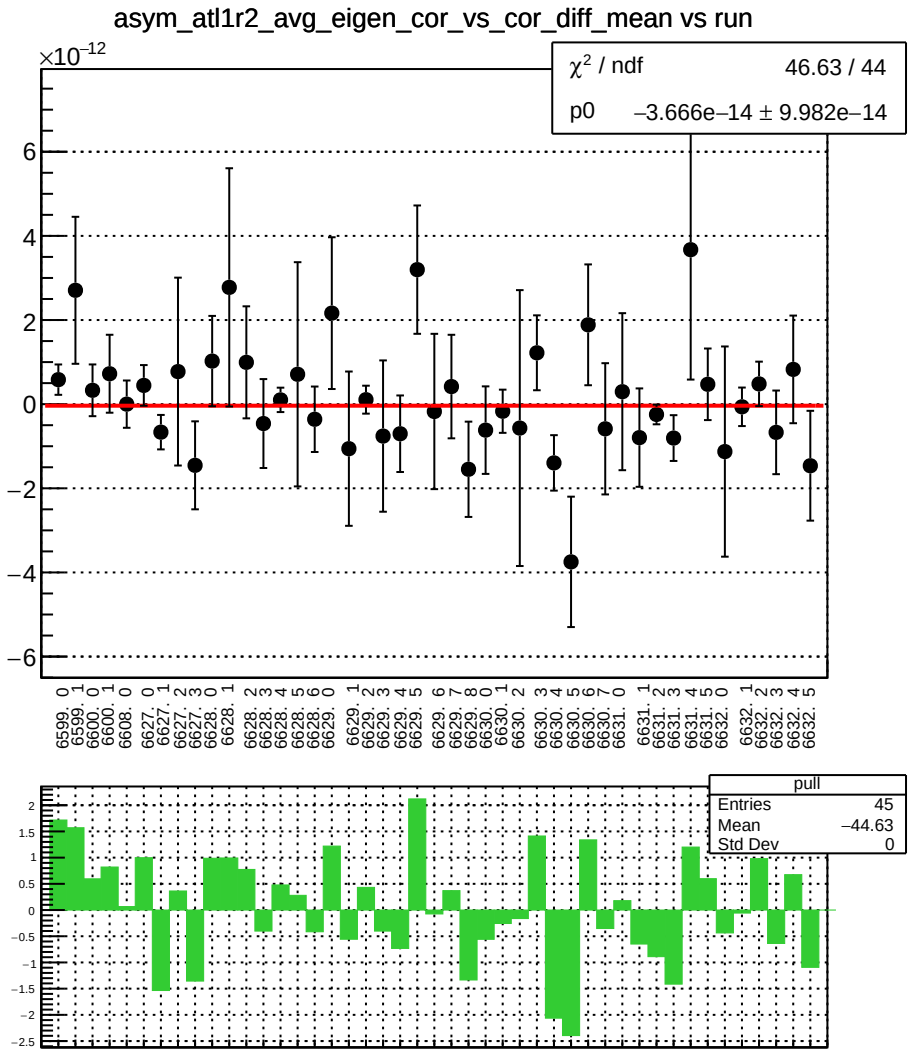
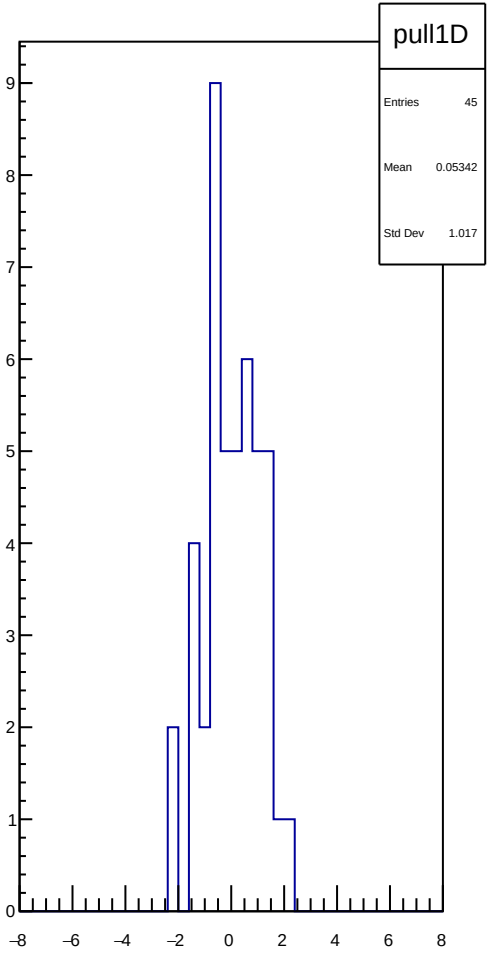
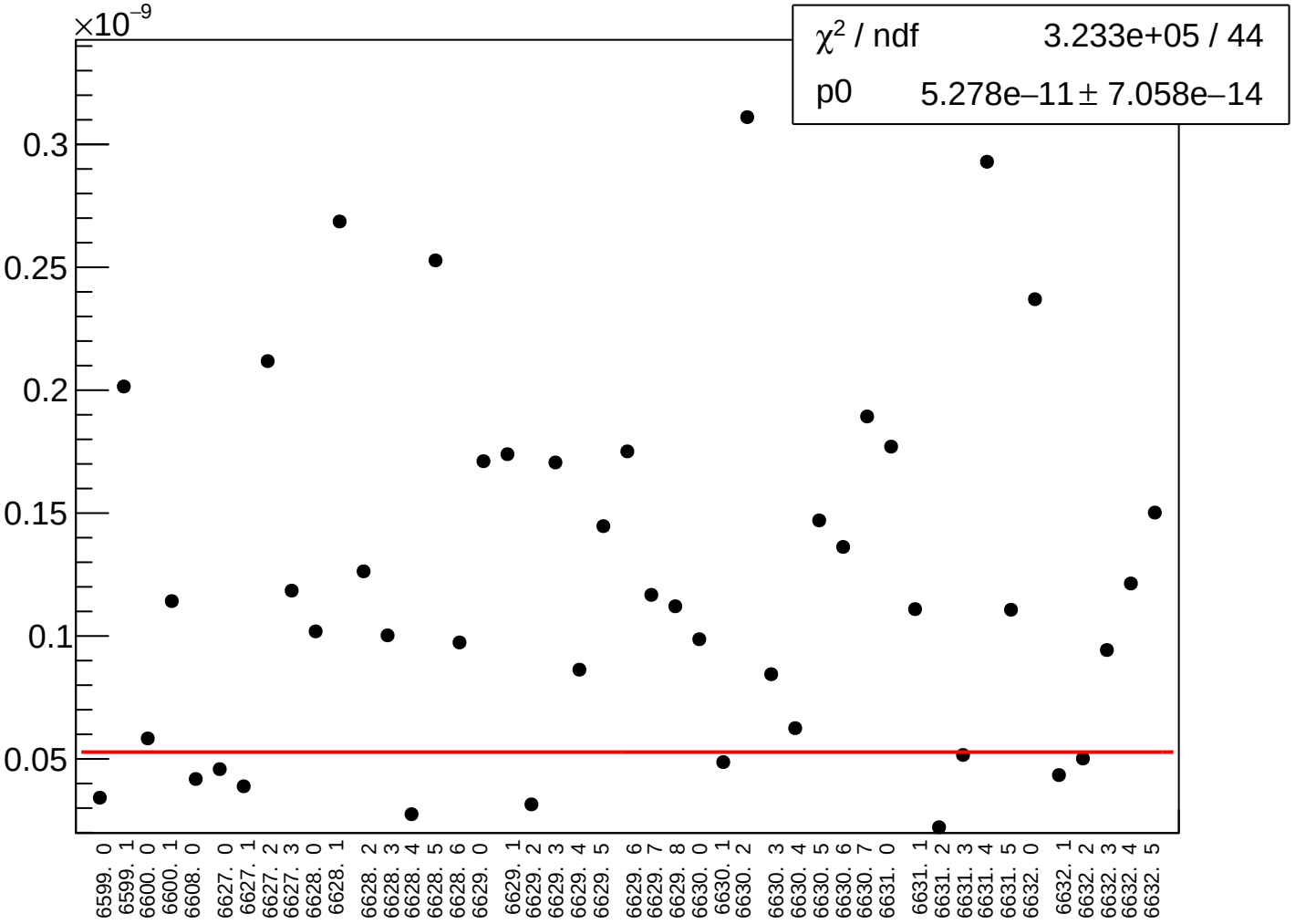
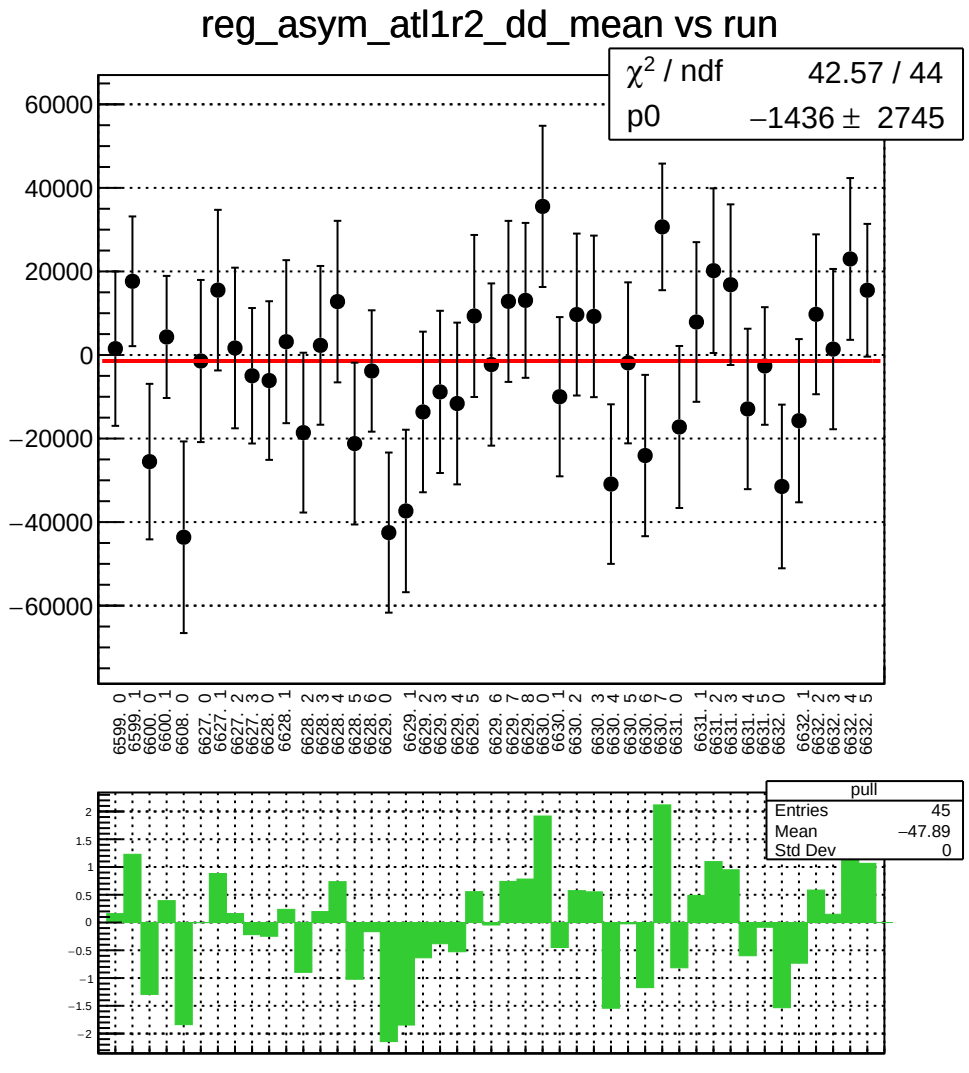
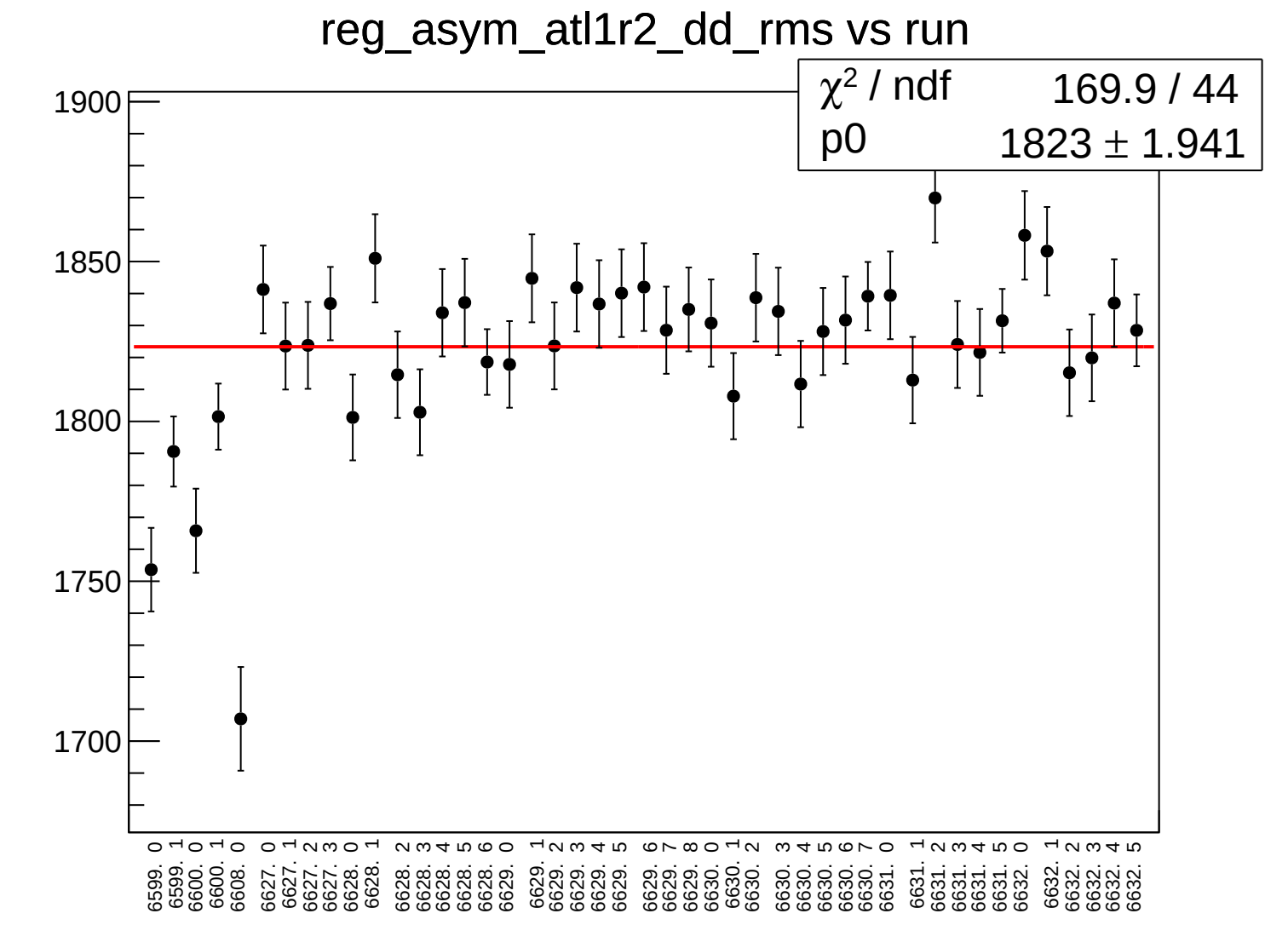
6632. 5


asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 46.63 / 44
p0 −3.666e−14 ± 9.982e−14
pull
Entries 45
Mean −44.63
Std Dev 0


pull1D
Entries 45
Mean 0.05342
Std Dev 1.017


asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.233e+05 / 44
p0 5.278e−11 ± 7.058e−14
0.3
0.25
0.2
0.15
0.1
0.05
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


reg_asym_atl1r2_dd_mean vs run
χ² / ndf 42.57 / 44
p0 −1436 ± 2745
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −47.89
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.0306
Std Dev 0.9722
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_dd_rms vs run
χ² / ndf 169.9 / 44
p0 1823 ± 1.941
1900
1850
1800
1750
1700
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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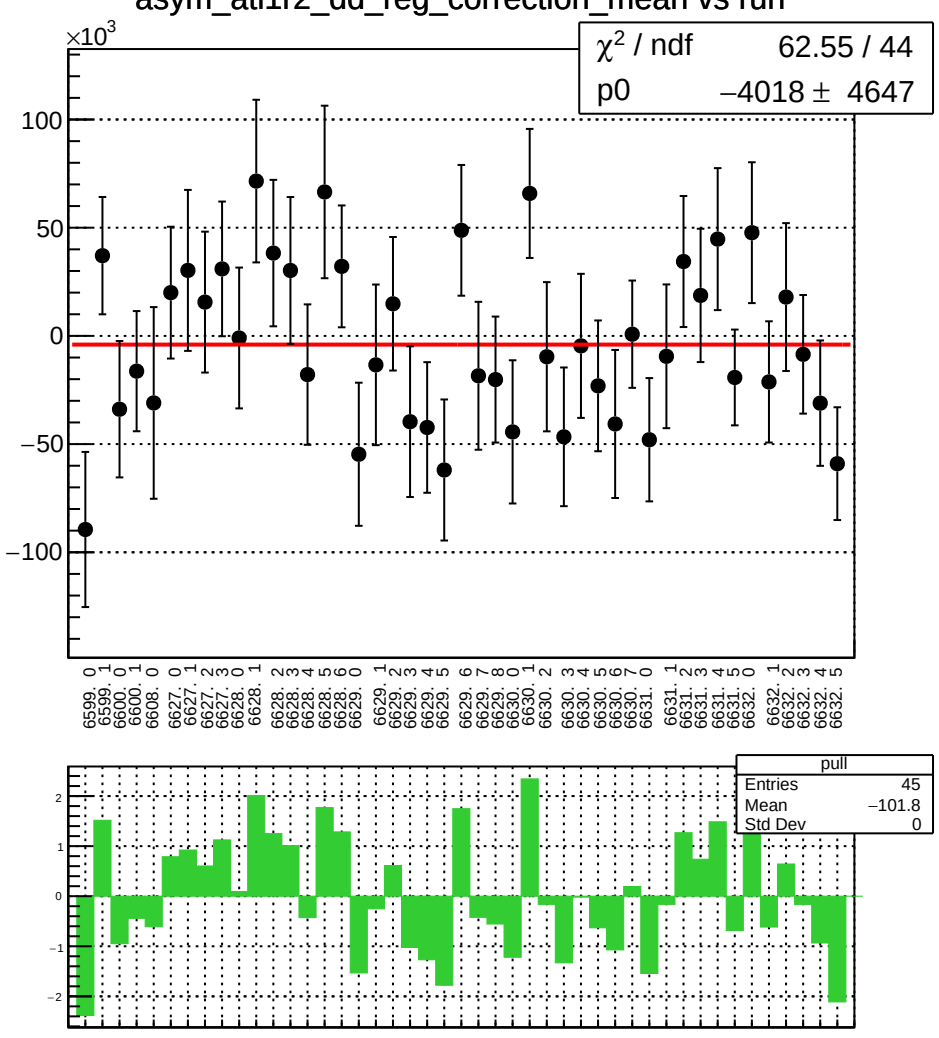
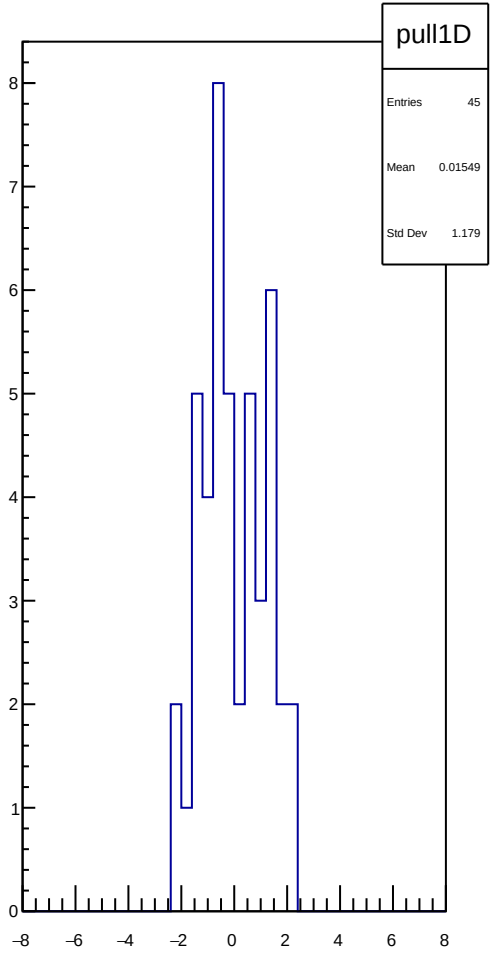
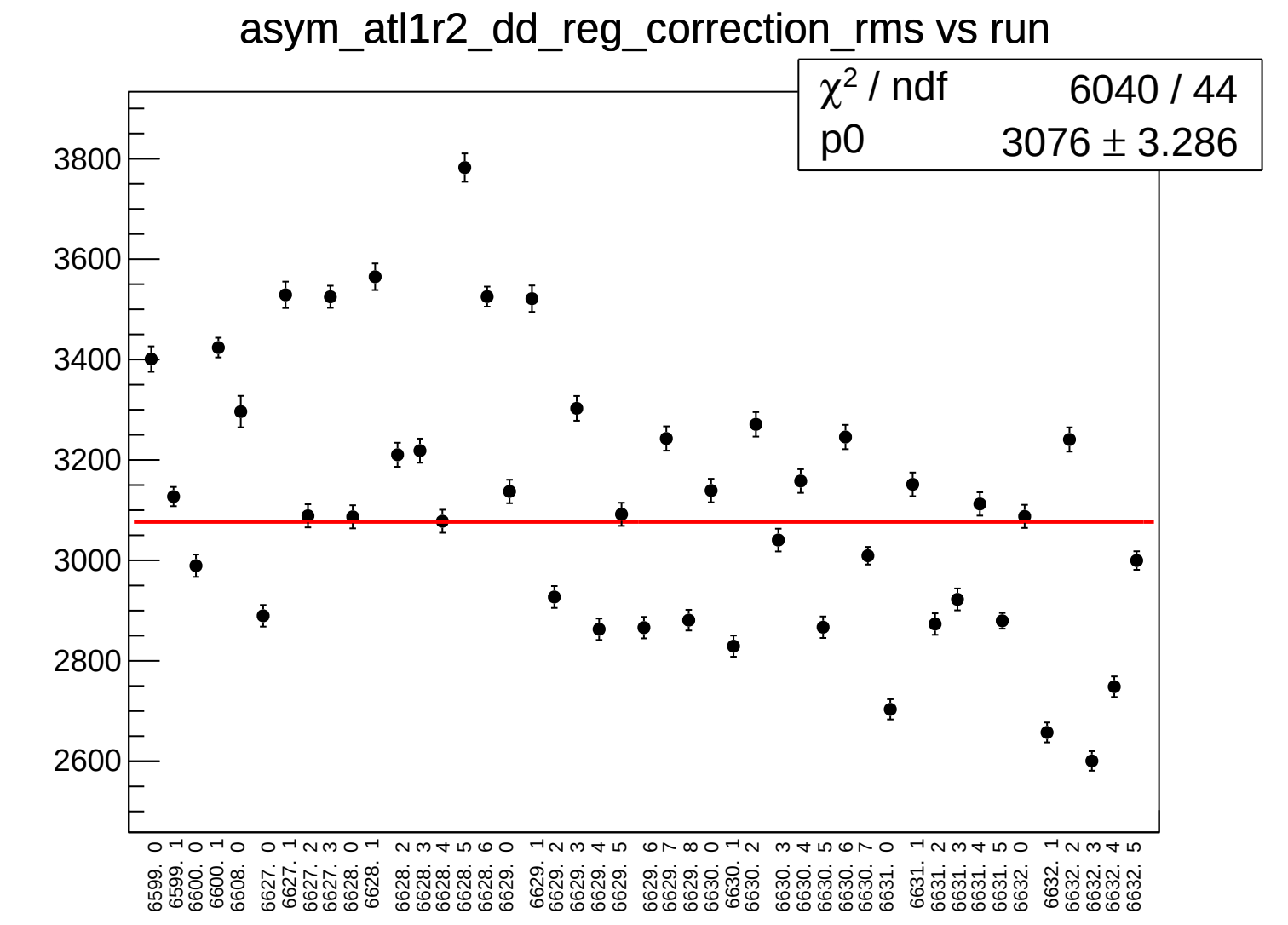
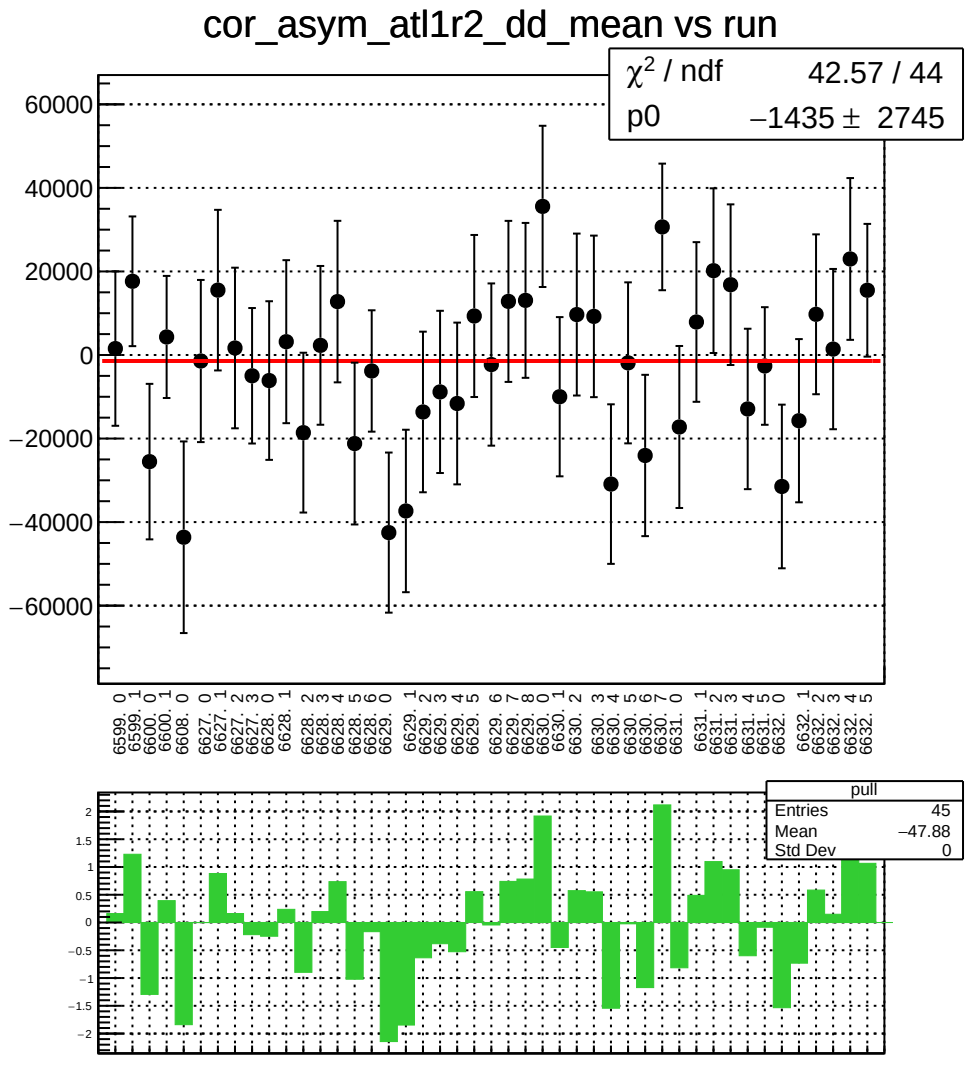
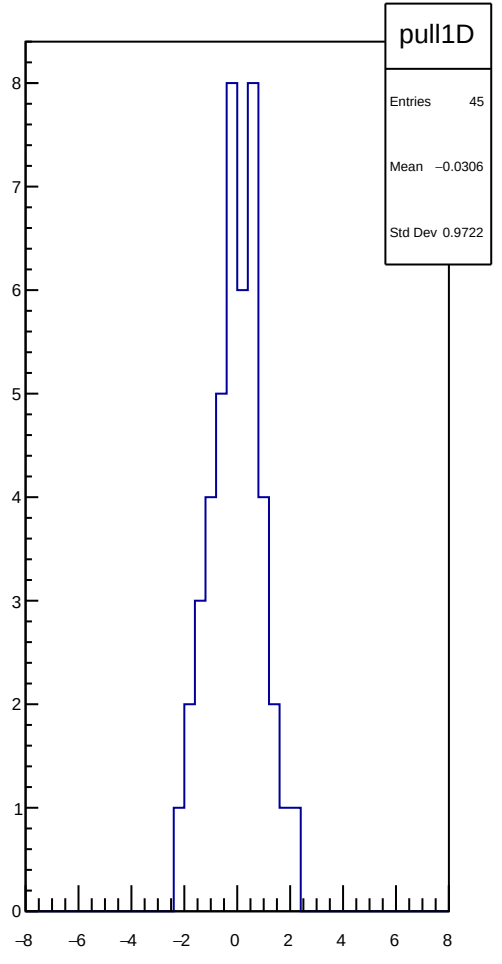
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

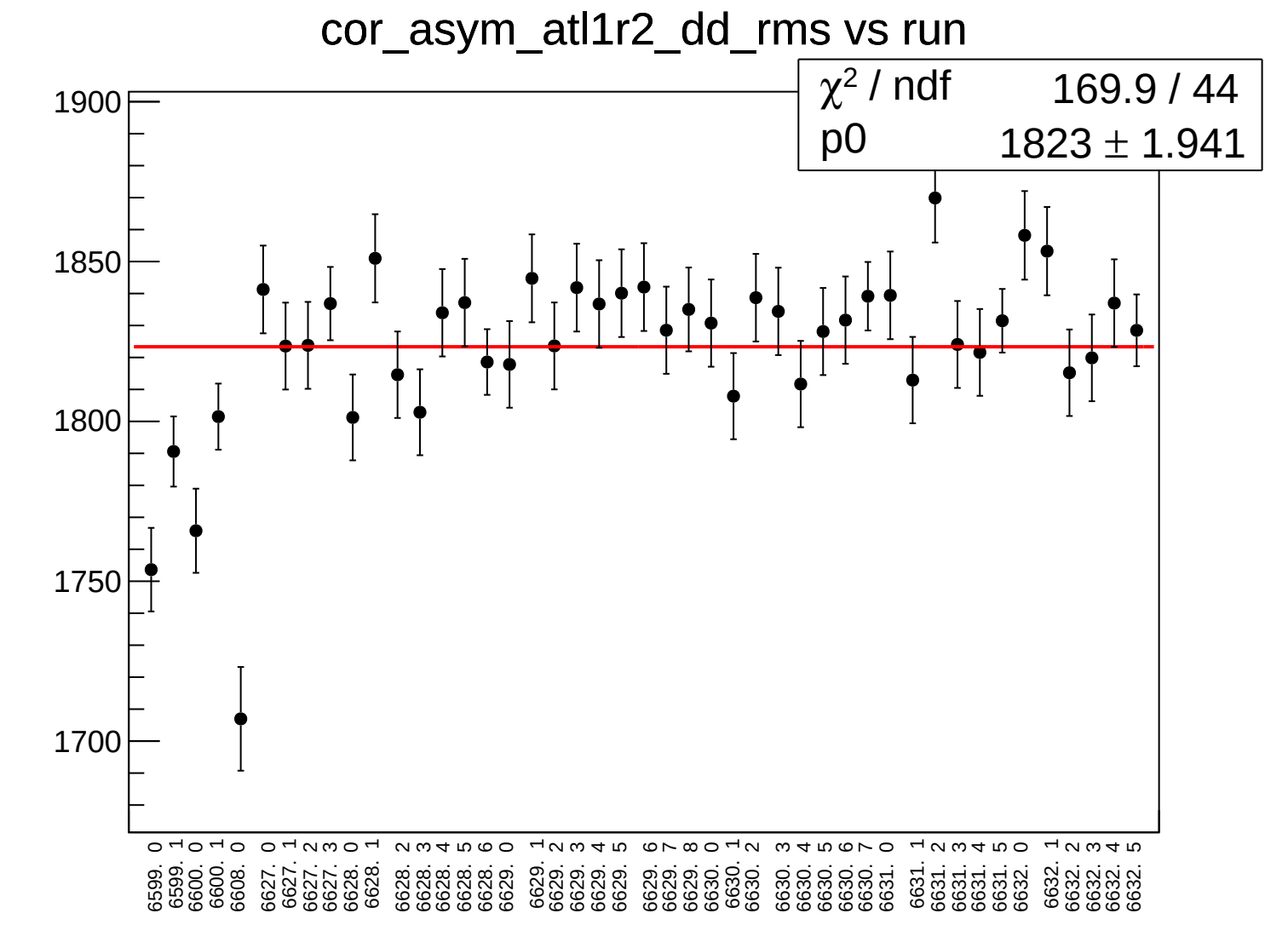

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 62.55 / 44
p0 −4018 ± 4647
100
50
0
−50
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −101.8
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.01549
Std Dev 1.179
8
7
6
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 6040 / 44
p0 3076 ± 3.286
3800
3600
3400
3200
3000
2800
2600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_atl1r2_dd_mean vs run
χ² / ndf 42.57 / 44
p0 −1435 ± 2745
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −47.88
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.0306
Std Dev 0.9722
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl1r2_dd_rms vs run
χ² / ndf 169.9 / 44
p0 1823 ± 1.941
1900
1850
1800
1750
1700
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
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6631. 0
6631. 1
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6631. 4
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6632. 0
6632. 1
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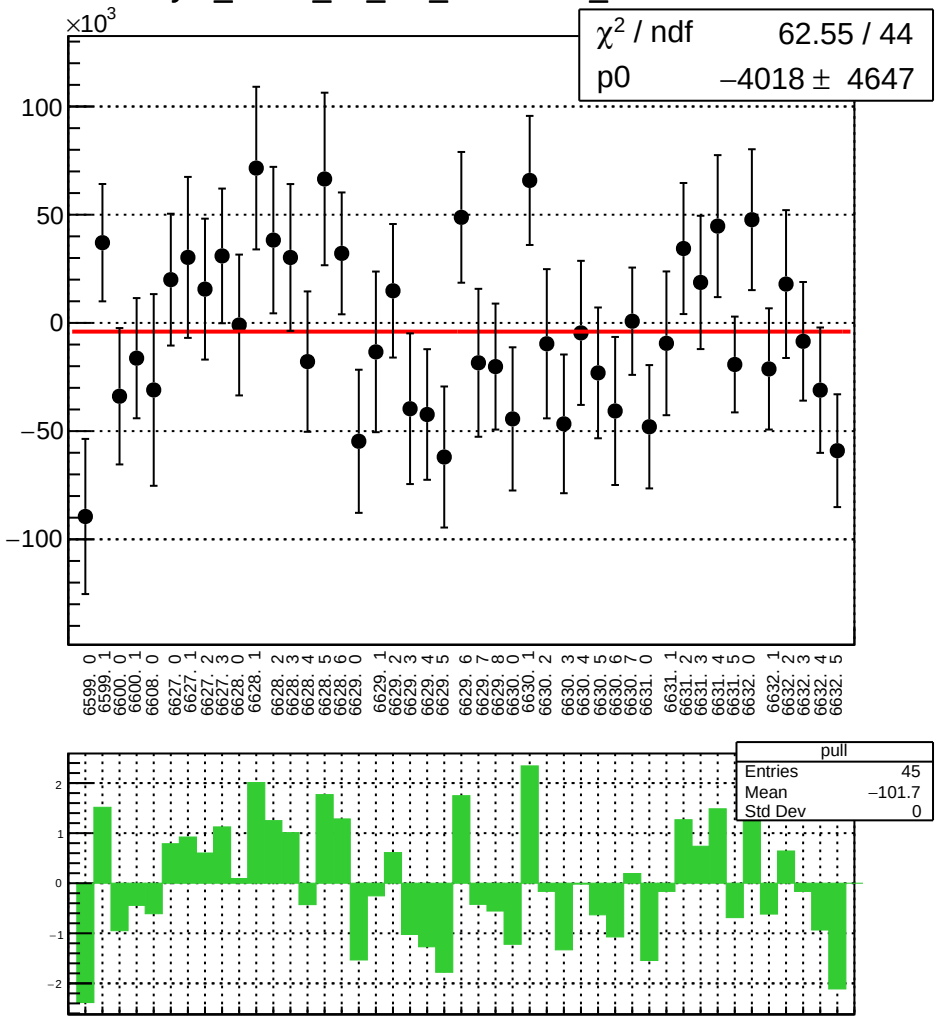
6632. 4
6632. 5


asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 62.55 / 44
p0 −4018 ± 4647
100
50
0
−50
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
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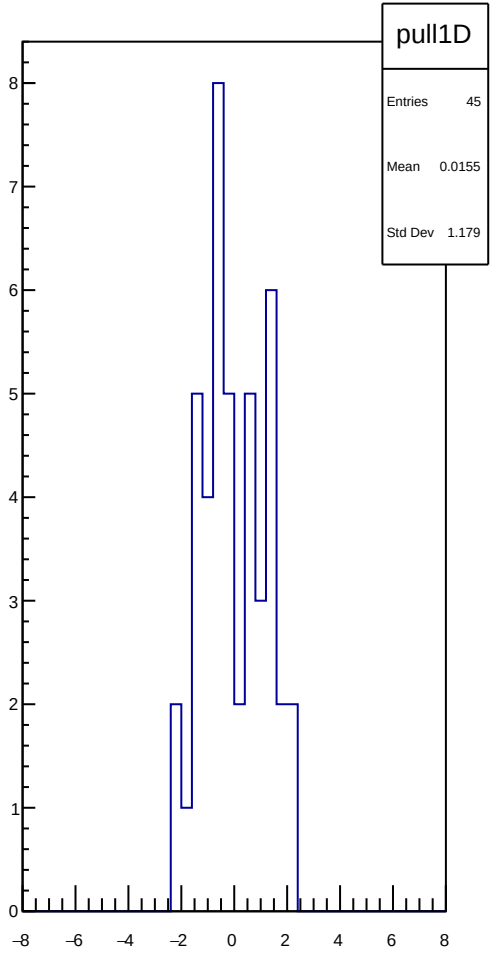
6632. 4
6632. 5
pull
Entries 45
Mean −101.7
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.0155
Std Dev 1.179
8
7
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5
4
3
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0
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−4
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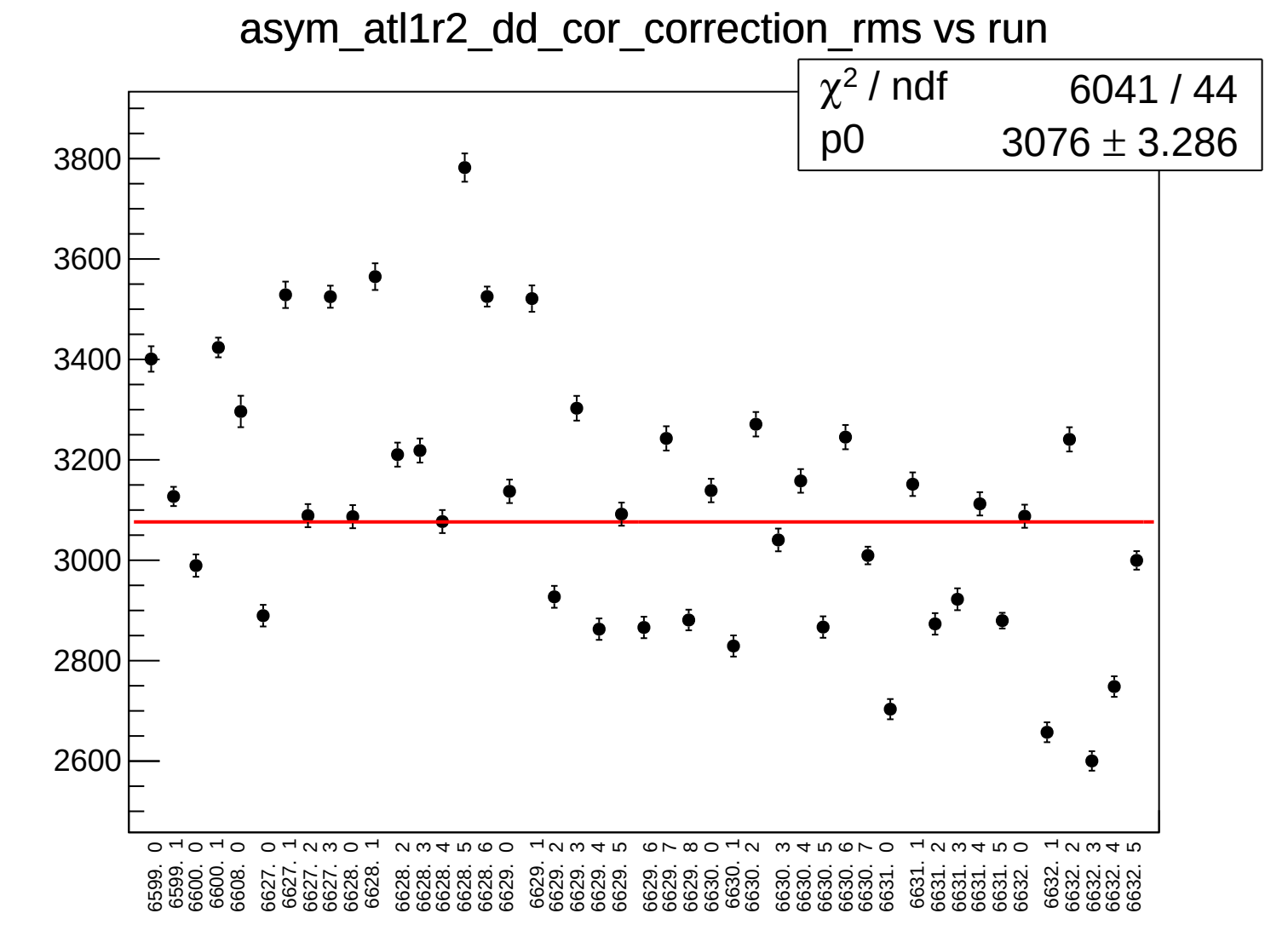
0
2
4
6
8


asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 6041 / 44
p0 3076 ± 3.286
3800
3600
3400
3200
3000
2800
2600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 2
6627. 3
6628. 0
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6628. 6
6629. 0
6629. 1
6629. 2
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6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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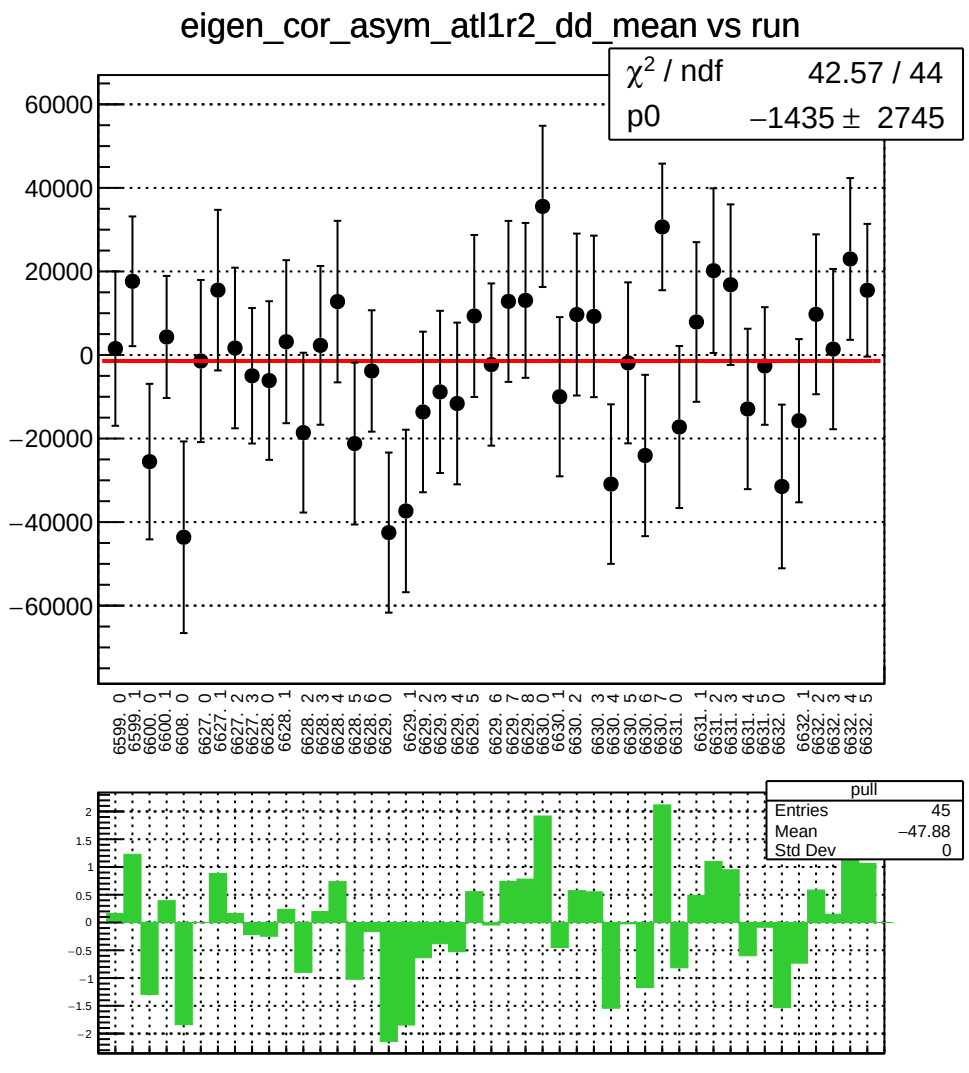
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 42.57 / 44
p0 −1435 ± 2745
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
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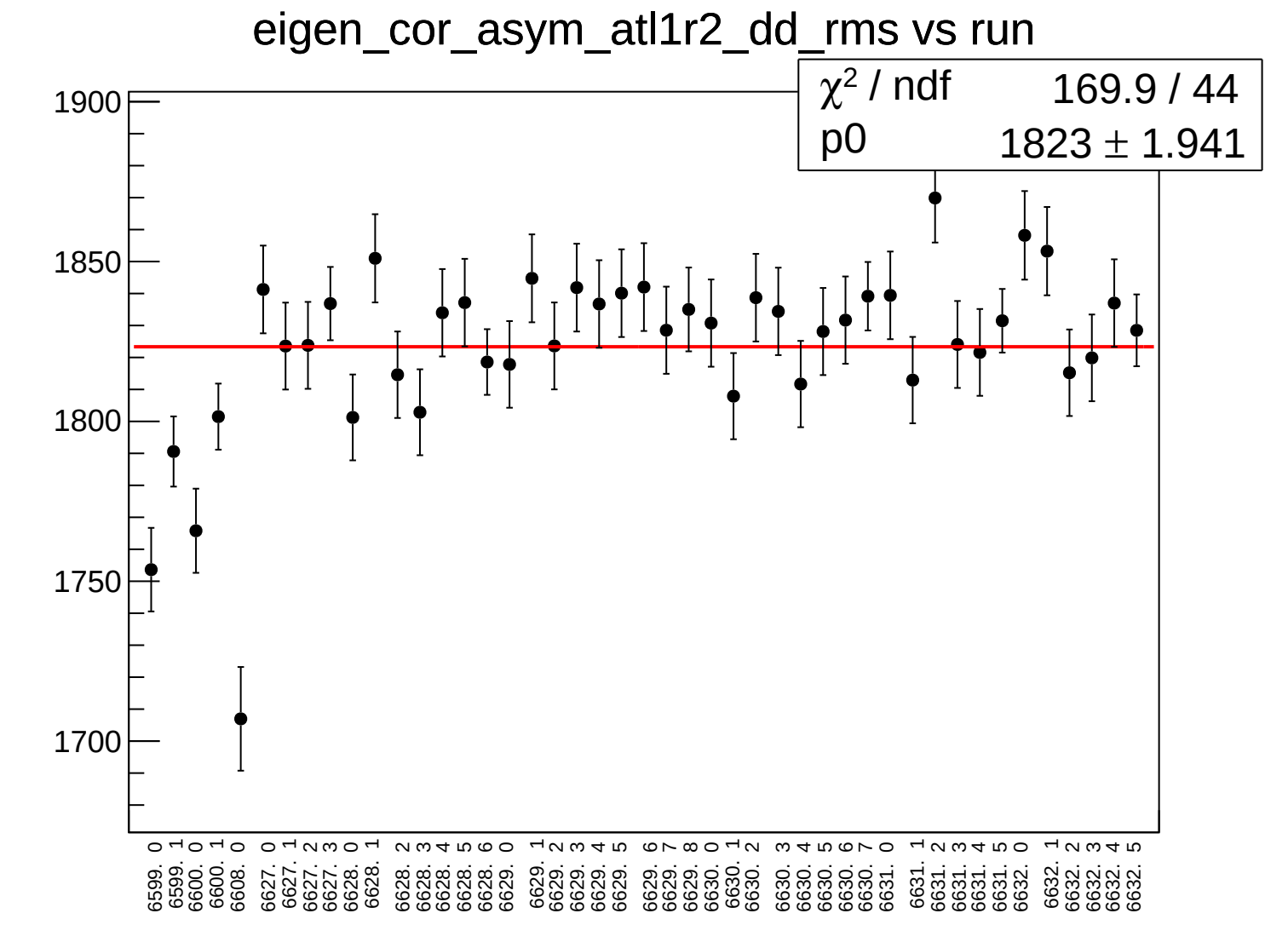
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −47.88
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.0306
Std Dev 0.9722
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 169.9 / 44
p0 1823 ± 1.941
1900
1850
1800
1750
1700
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
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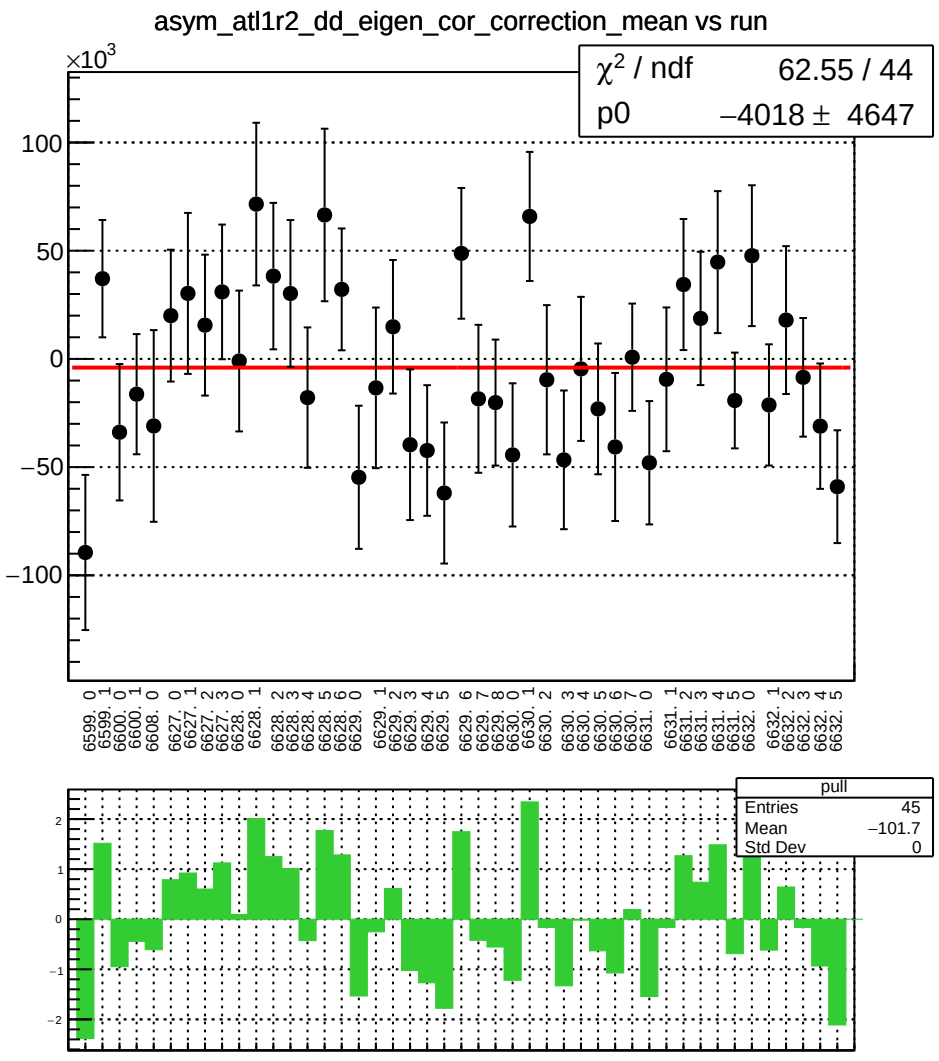
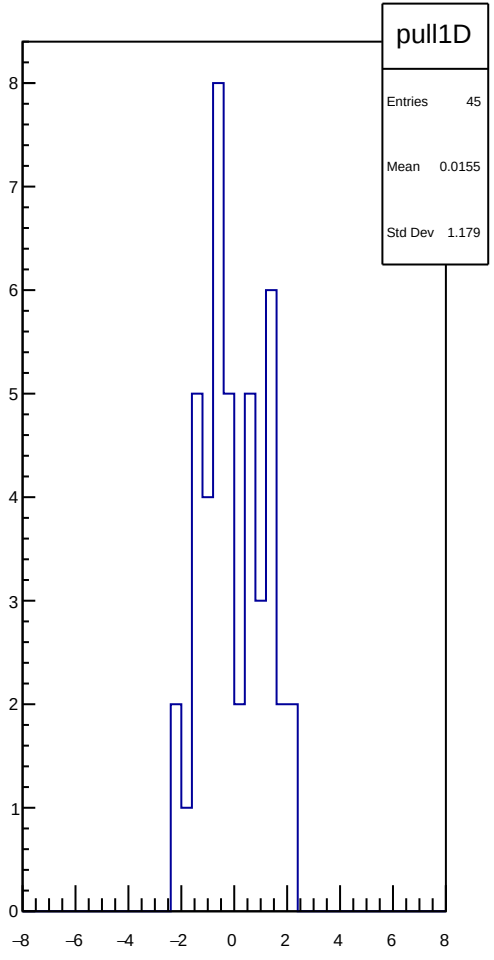
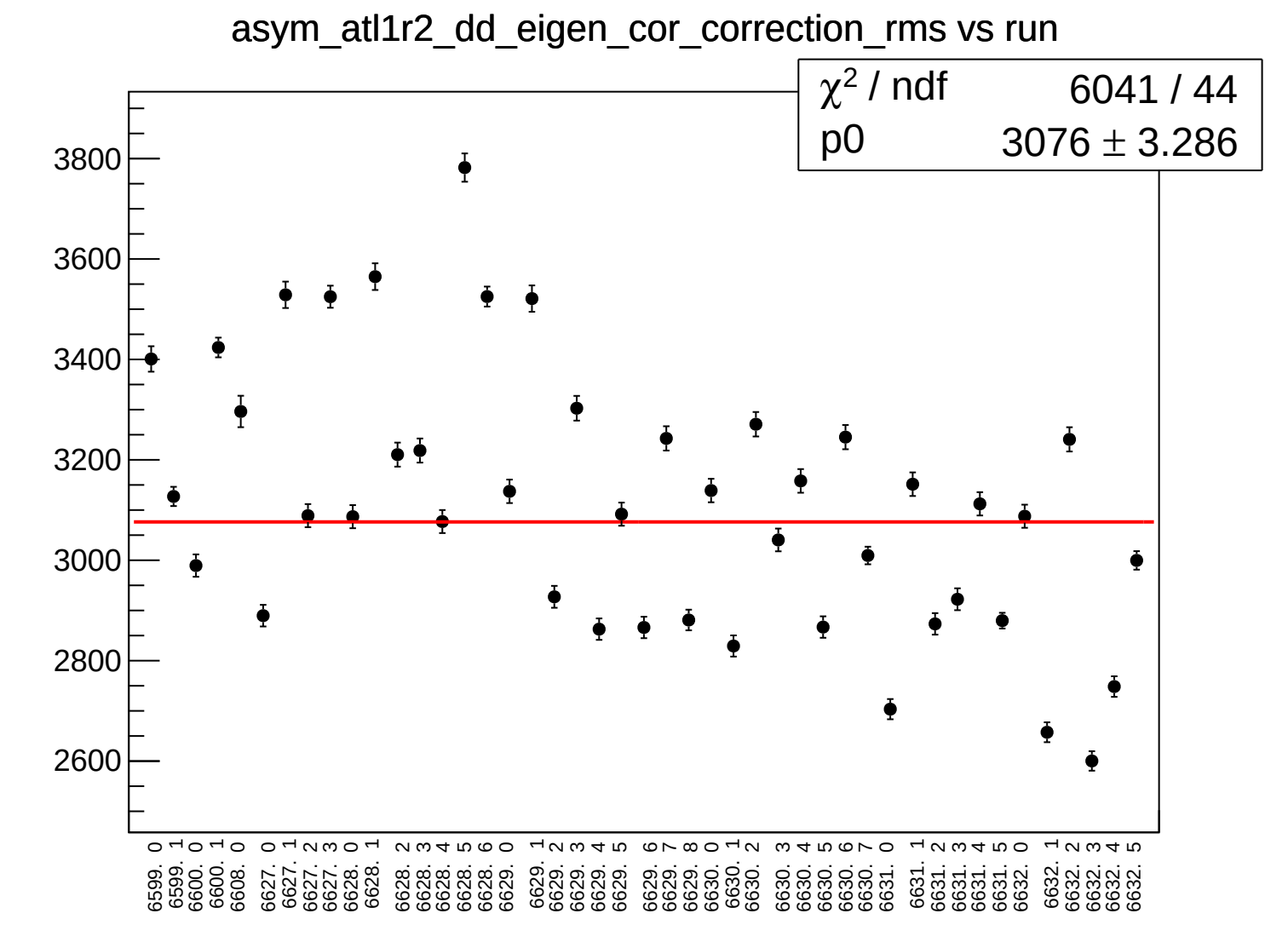
6632. 4
6632. 5


asym_atl1r2_dd_eigen_cor_correction_mean vs run
χ² / ndf 62.55 / 44
p0 −4018 ± 4647
×10³
100
50
0
−50
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −101.7
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.0155
Std Dev 1.179
8
7
6
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 6041 / 44
p0 3076 ± 3.286
3800
3600
3400
3200
3000
2800
2600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
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6632. 2
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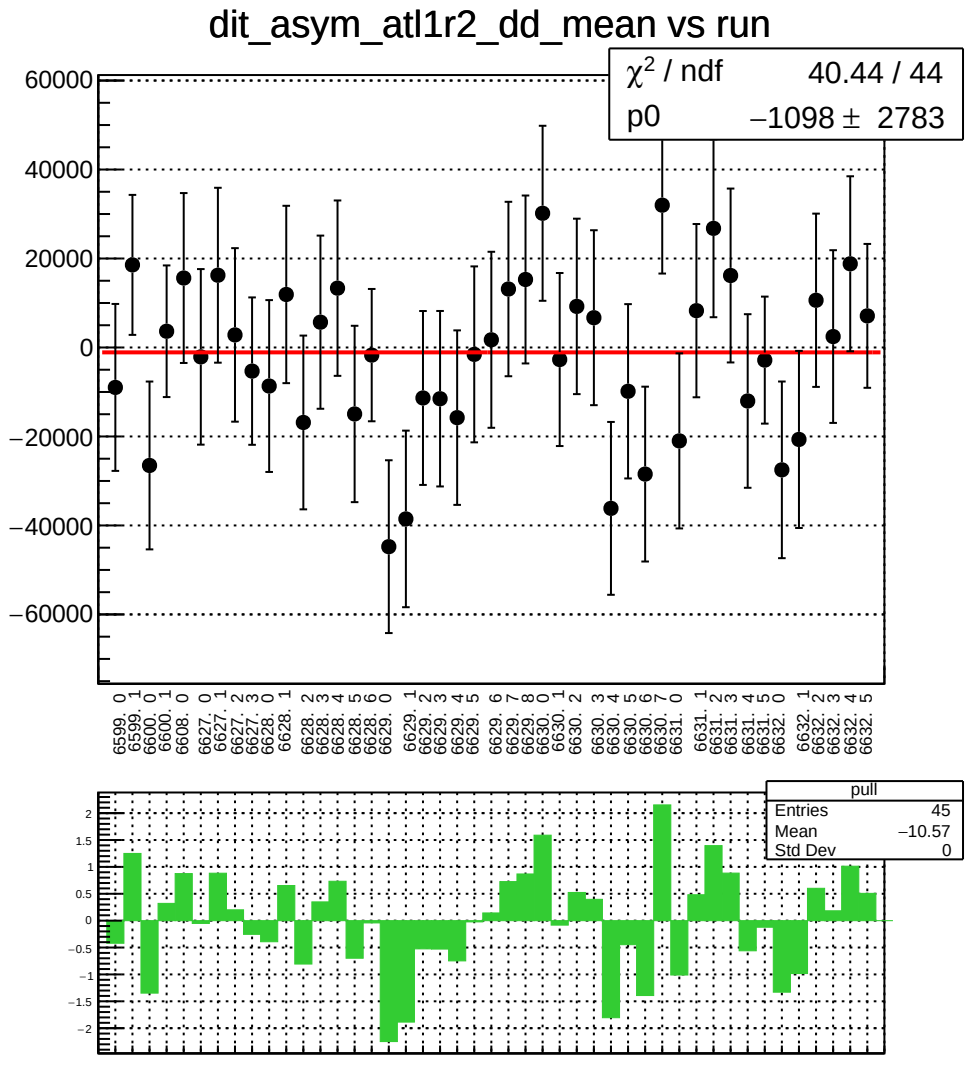
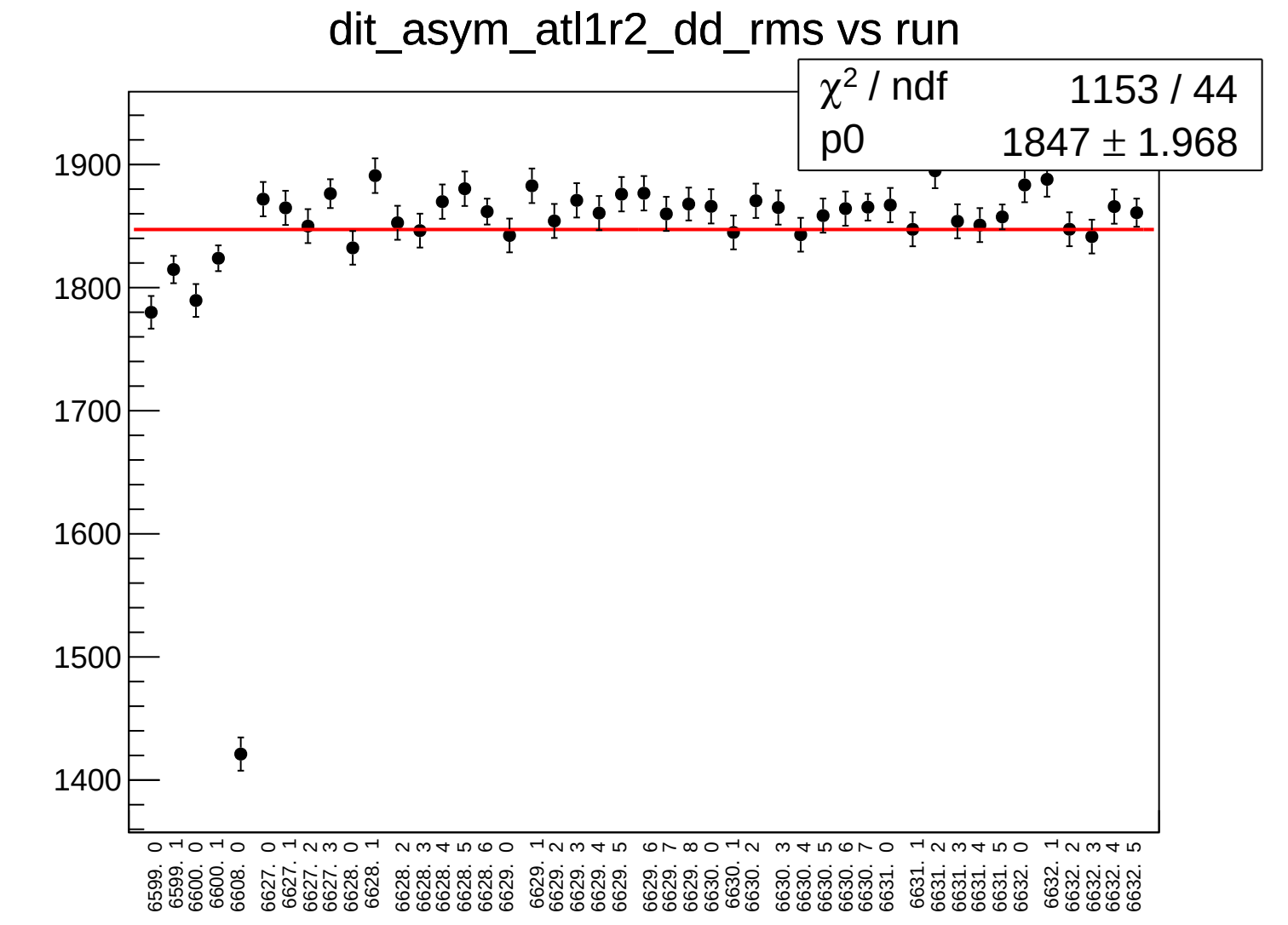
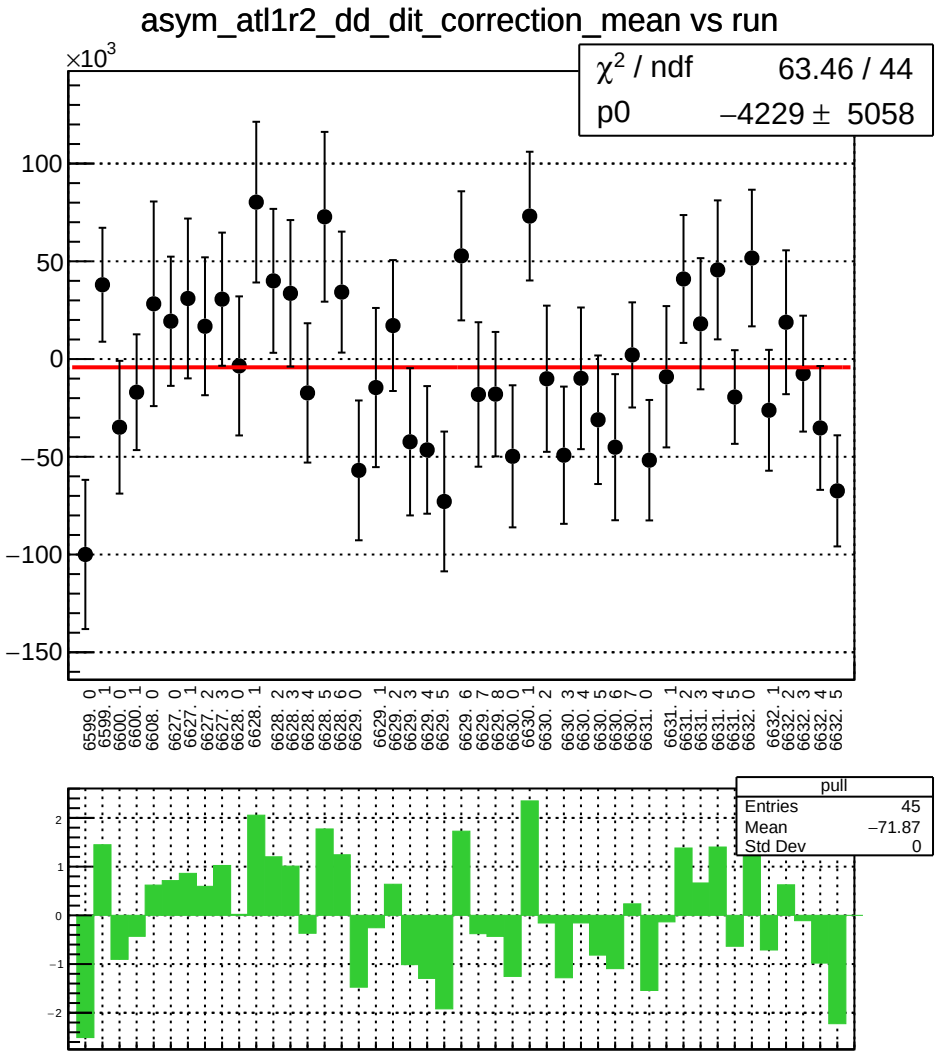
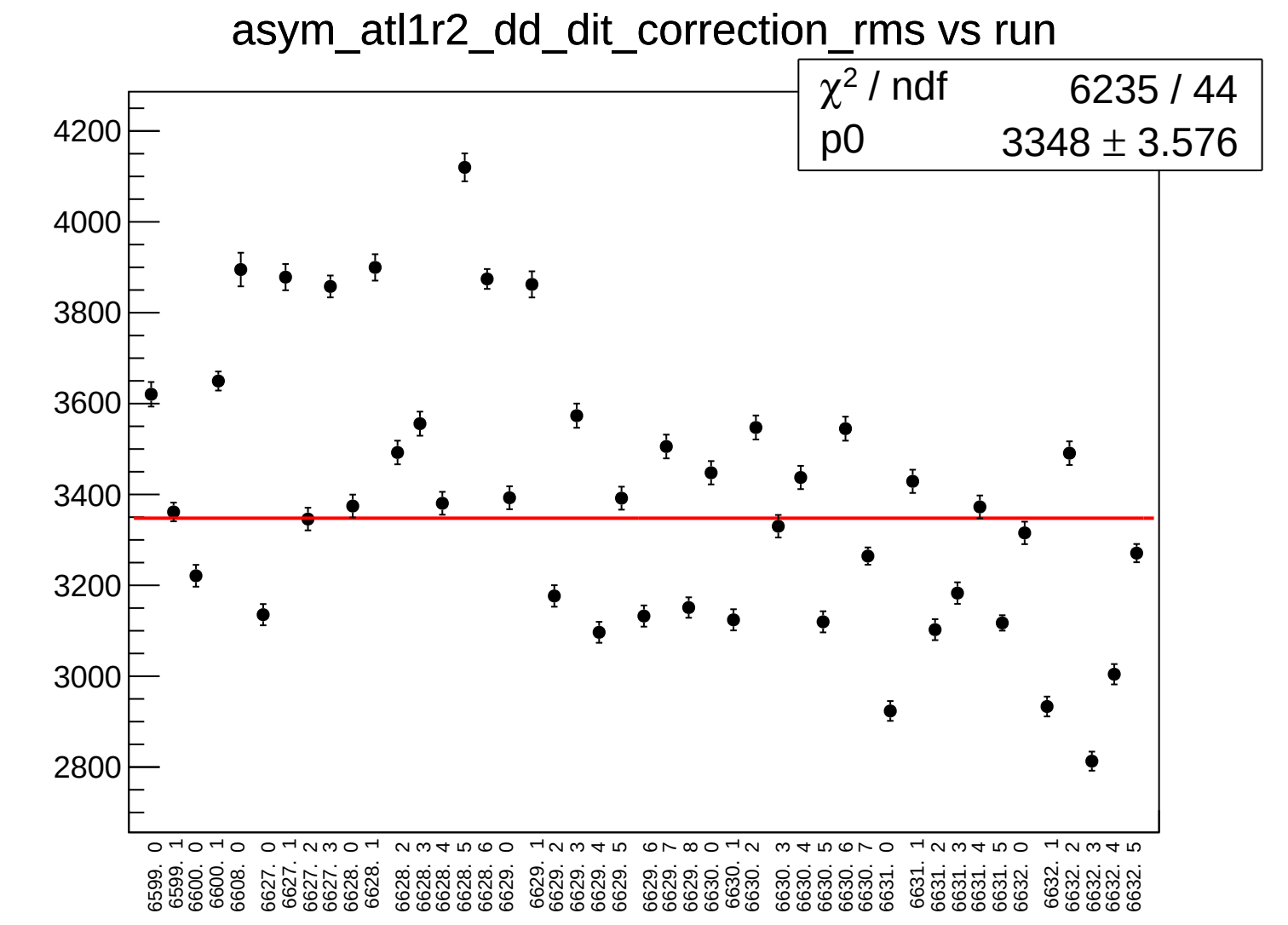
6632. 4
6632. 5


dit_asym_atl1r2_dd_mean vs run
χ² / ndf 40.44 / 44
p0 −1098 ± 2783
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −10.57
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.02161
Std Dev 0.9477
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atl1r2_dd_rms vs run
χ² / ndf 1153 / 44
p0 1847 ± 1.968
1900
1800
1700
1600
1500
1400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 63.46 / 44
p0 −4229 ± 5058
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −71.87
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.0252
Std Dev 1.187
7
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 6235 / 44
p0 3348 ± 3.576
4200
4000
3800
3600
3400
3200
3000
2800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
6632. 0
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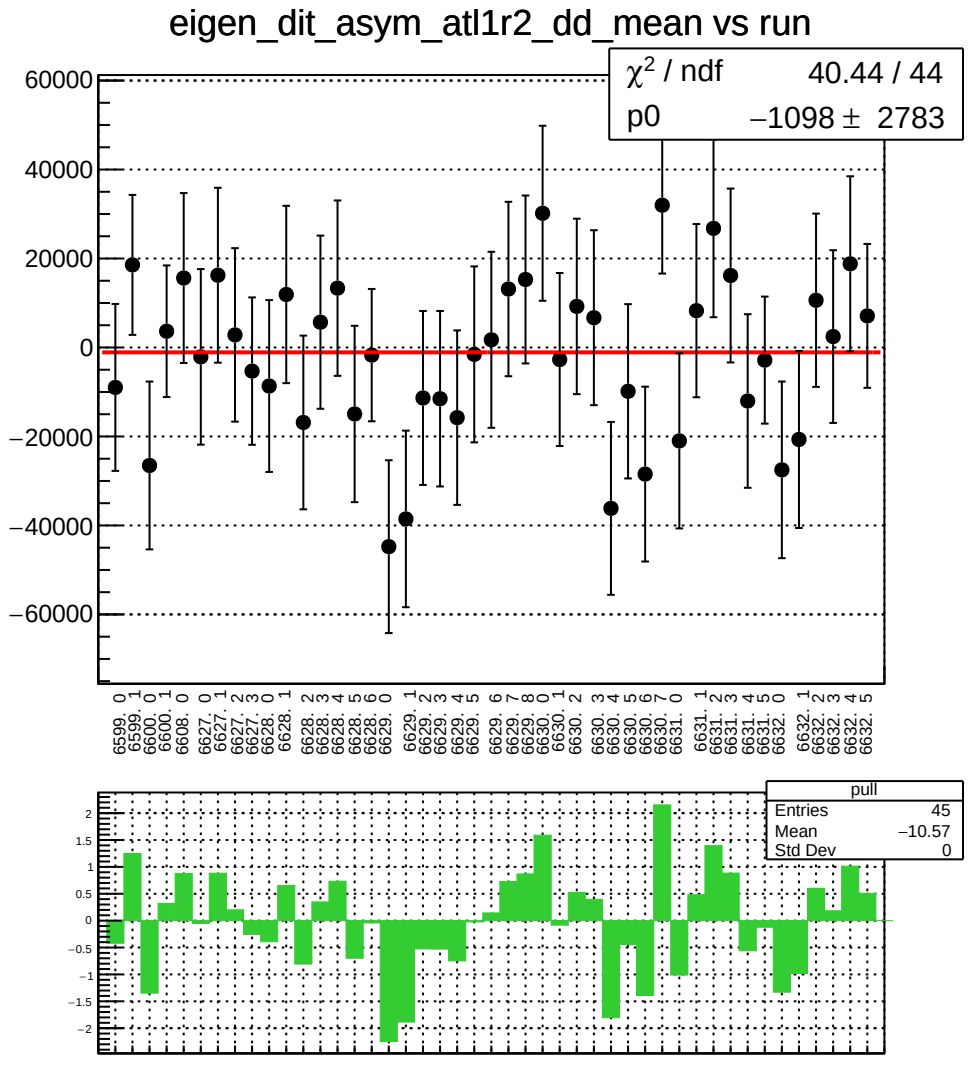
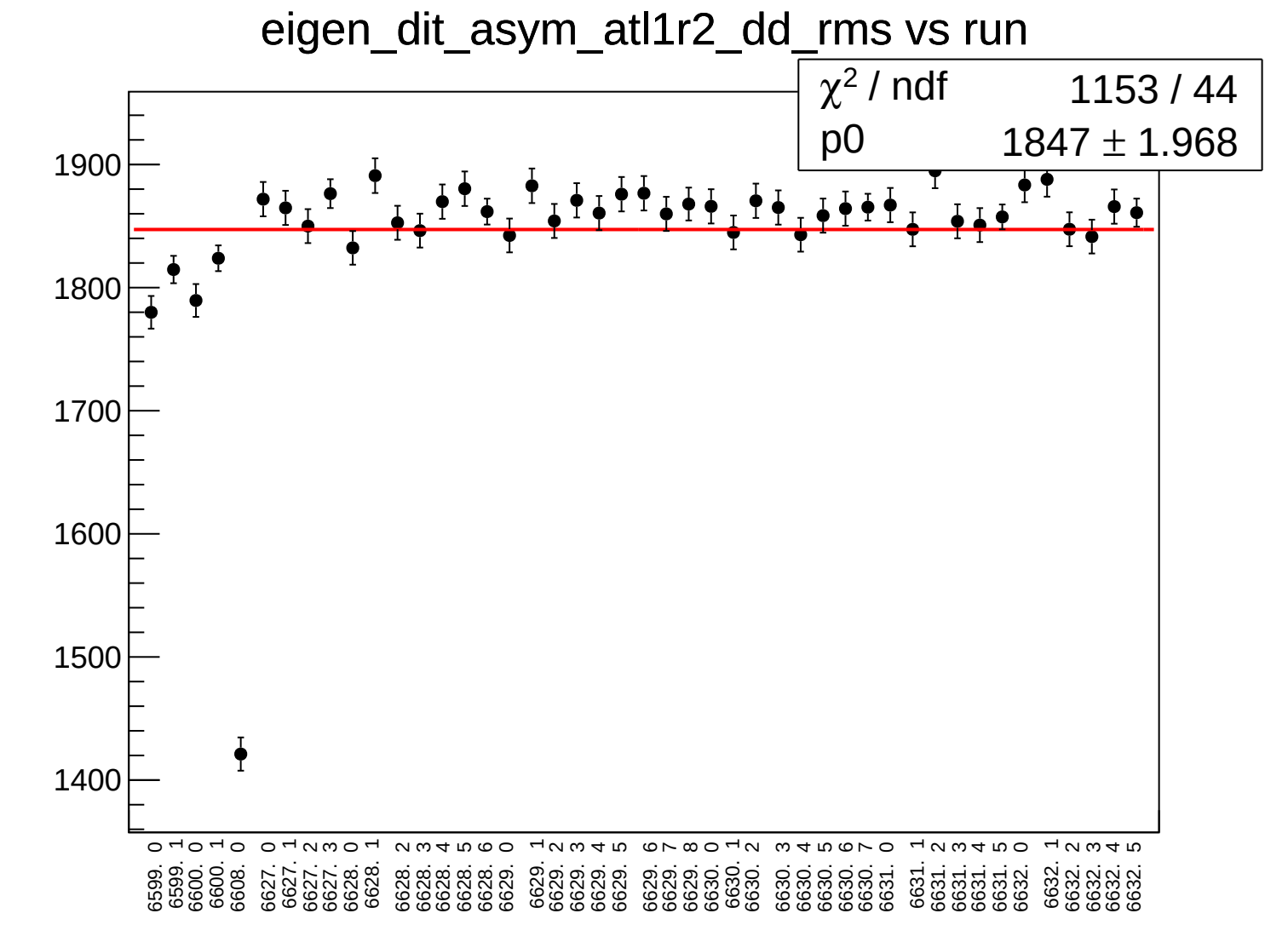
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 40.44 / 44
p0 −1098 ± 2783
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −10.57
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.02161
Std Dev 0.9477
7
6
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 1153 / 44
p0 1847 ± 1.968
1900
1800
1700
1600
1500
1400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
6628. 3
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6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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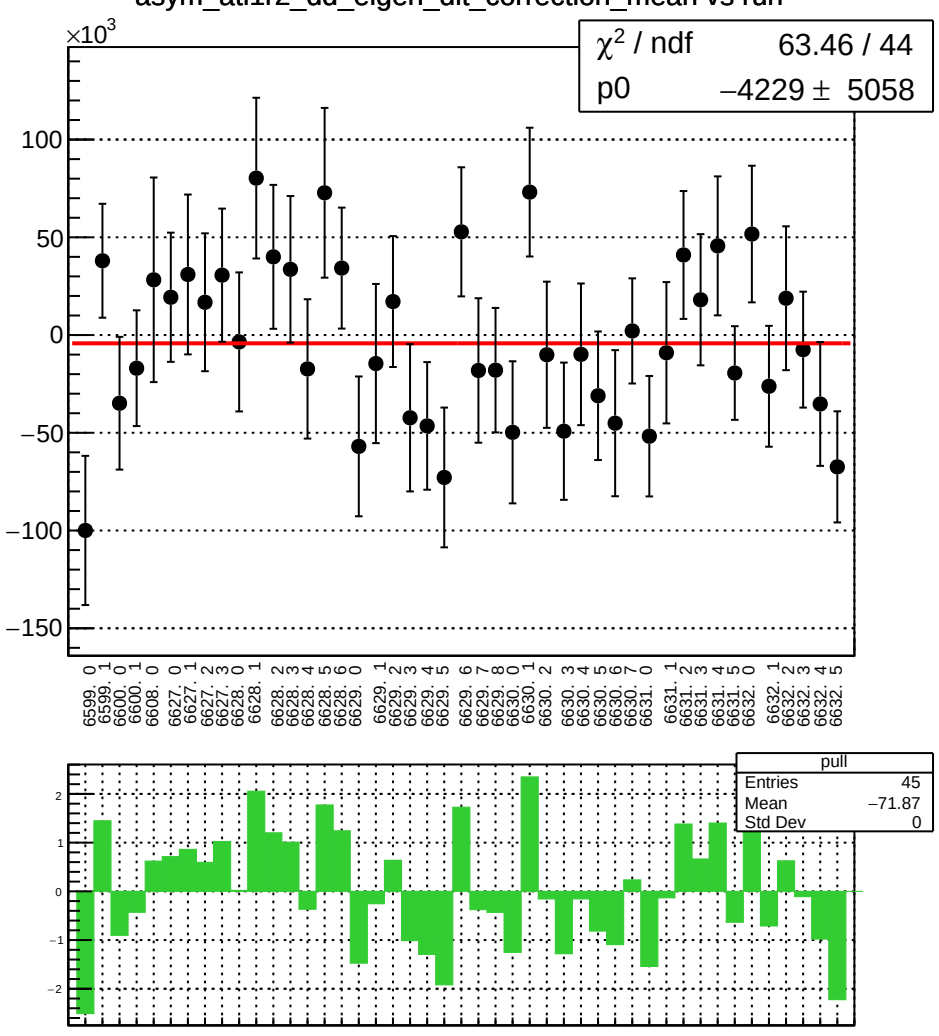
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 63.46 / 44
p0 −4229 ± 5058
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −71.87
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.0252
Std Dev 1.187
7
6
5
4
3
2
1
0
−8
−6
−4
−2
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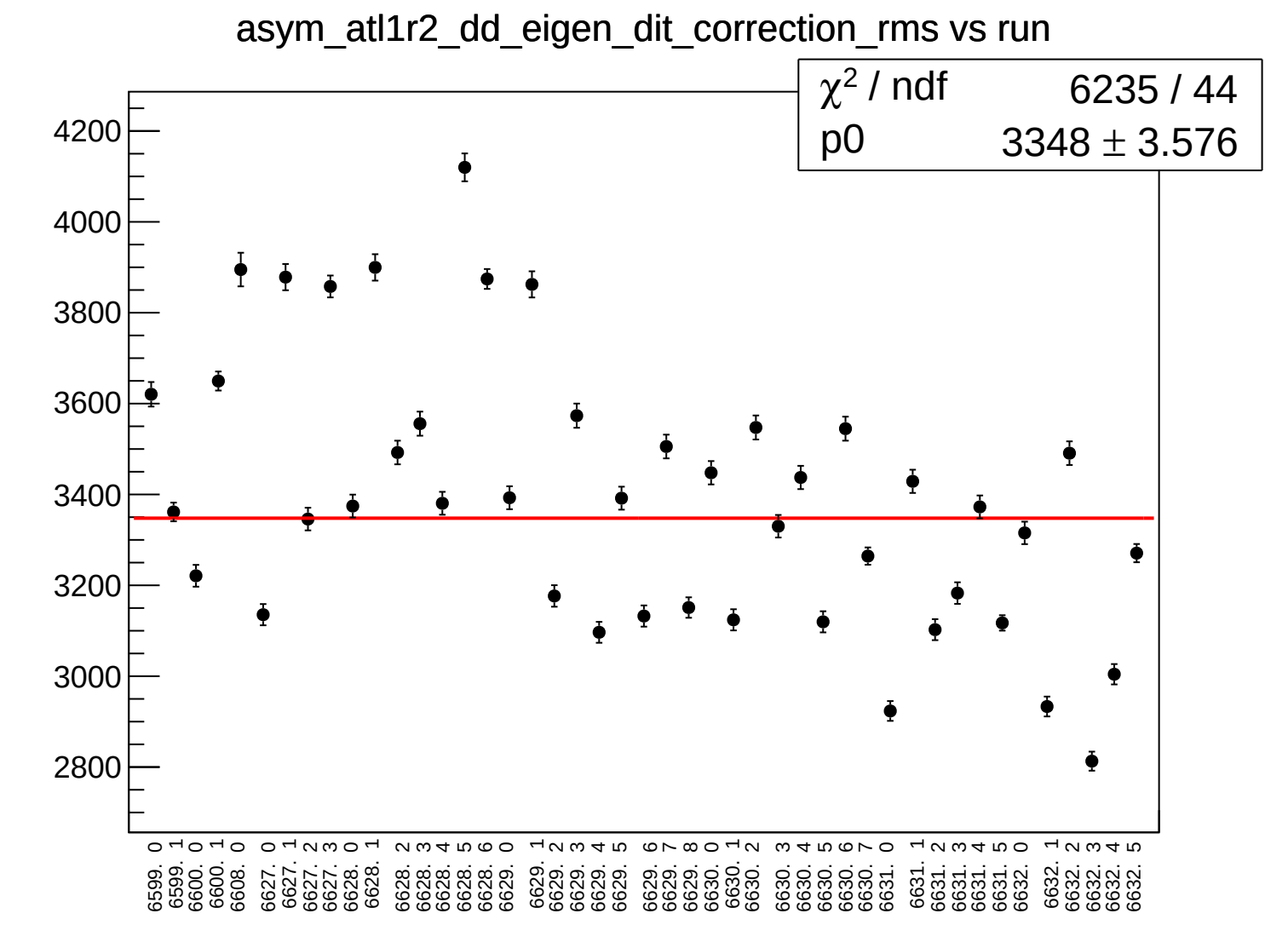
2
4
6
8


asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 6235 / 44
p0 3348 ± 3.576
4200
4000
3800
3600
3400
3200
3000
2800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
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6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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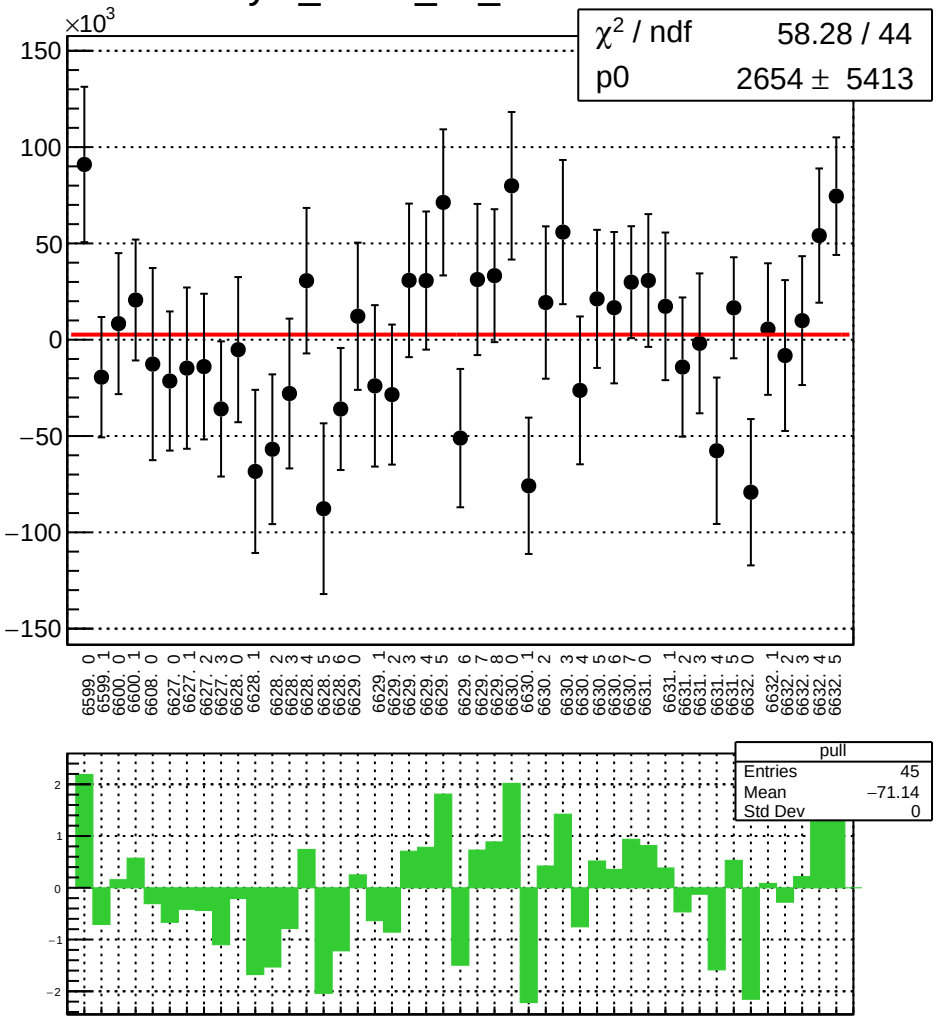
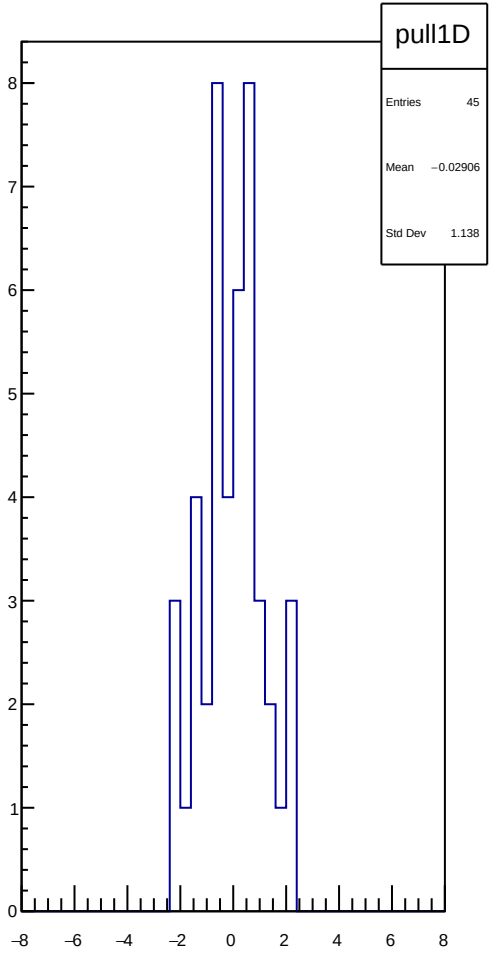
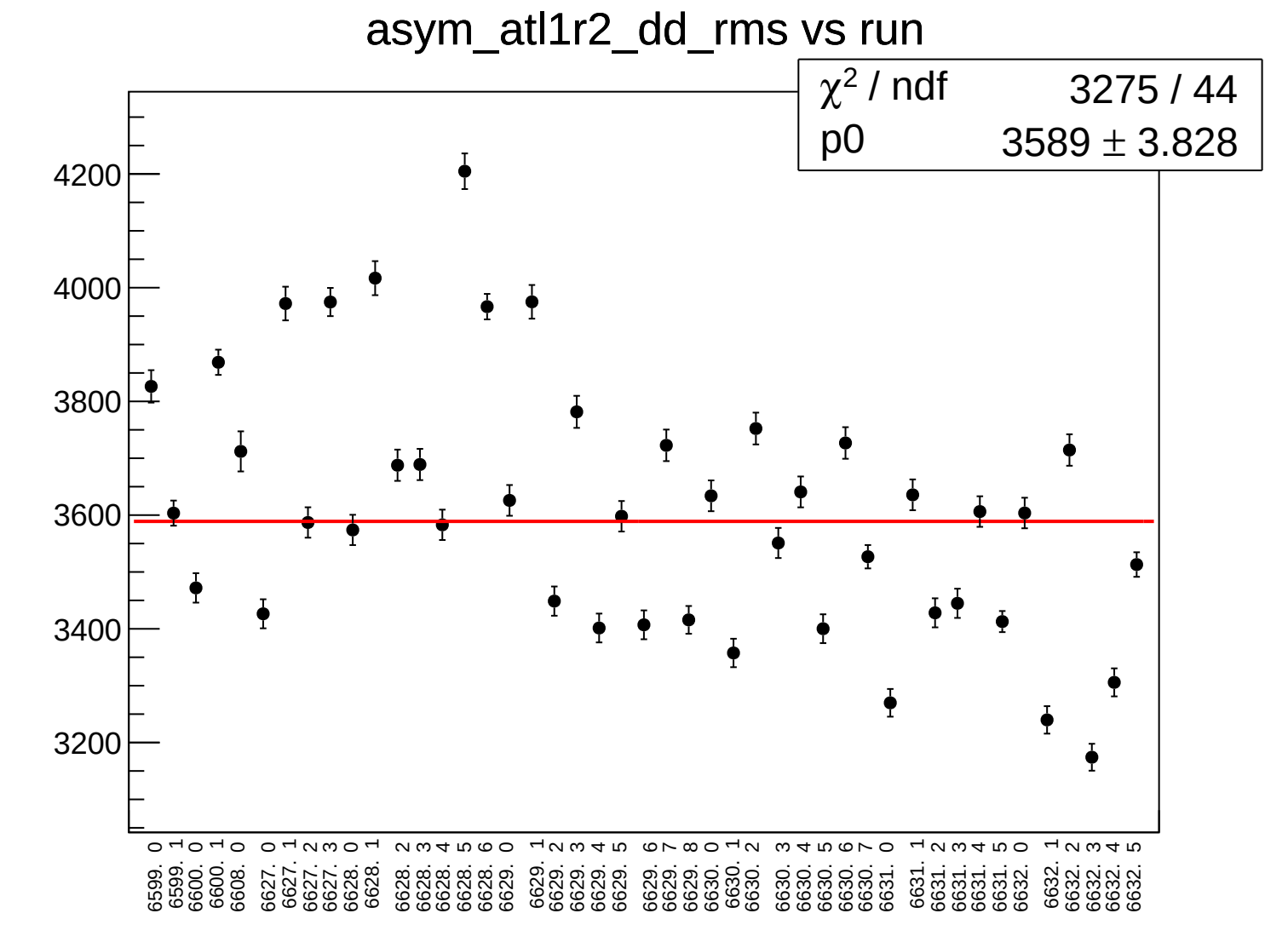
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 58.28 / 44
p0 2654 ± 5413
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −71.14
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.02906
Std Dev 1.138
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_rms vs run
χ² / ndf 3275 / 44
p0 3589 ± 3.828
4200
4000
3800
3600
3400
3200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 4
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6629. 6
6629. 7
6629. 8
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6630. 1
6630. 2
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6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
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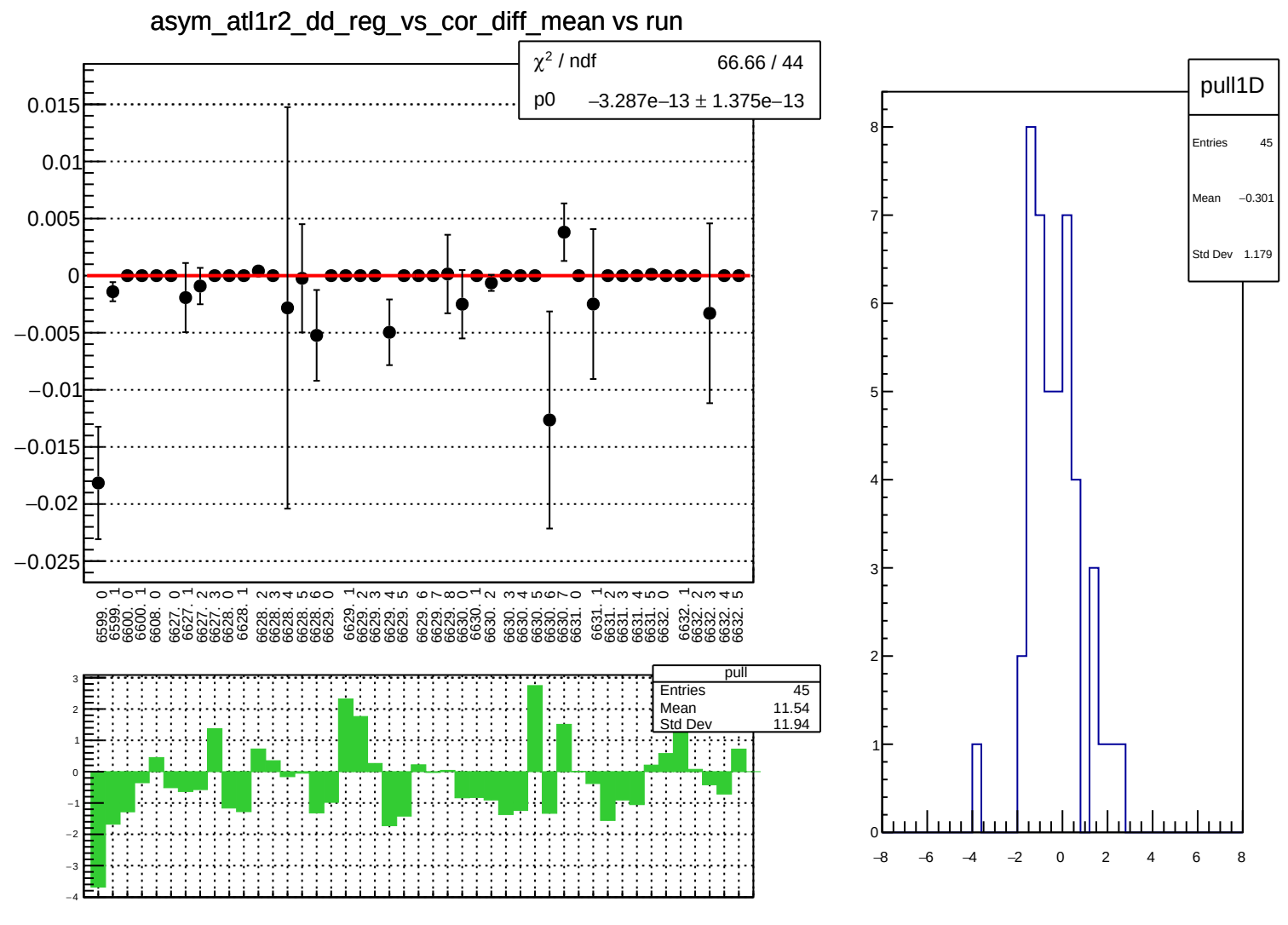
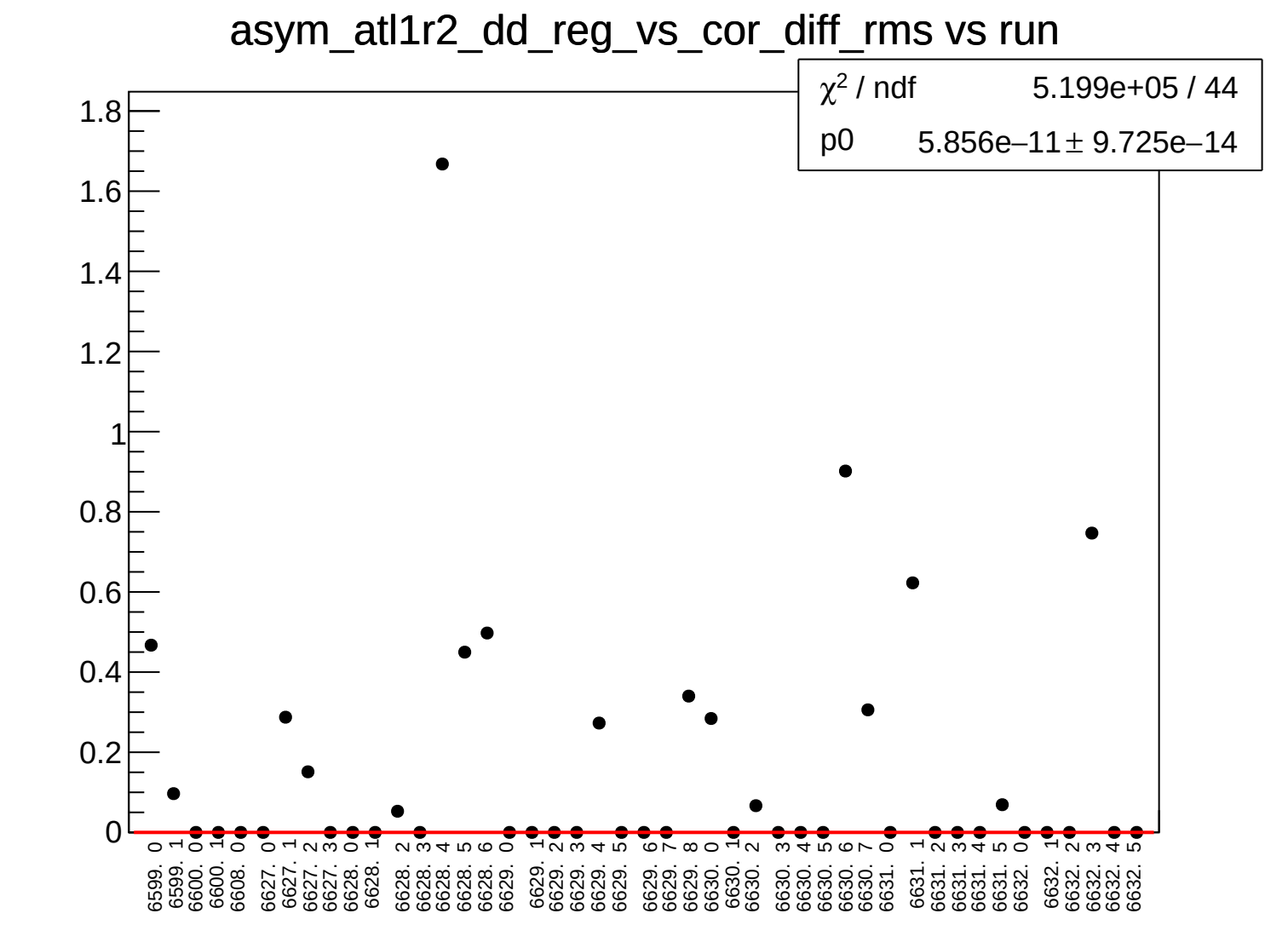
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 66.66 / 44
p0 −3.287e−13 ± 1.375e−13
pull
Entries 45
Mean 11.54
Std Dev 11.94
pull1D
Entries 45
Mean −0.301
Std Dev 1.179


asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.199e+05 / 44
p0 5.856e−11 ± 9.725e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
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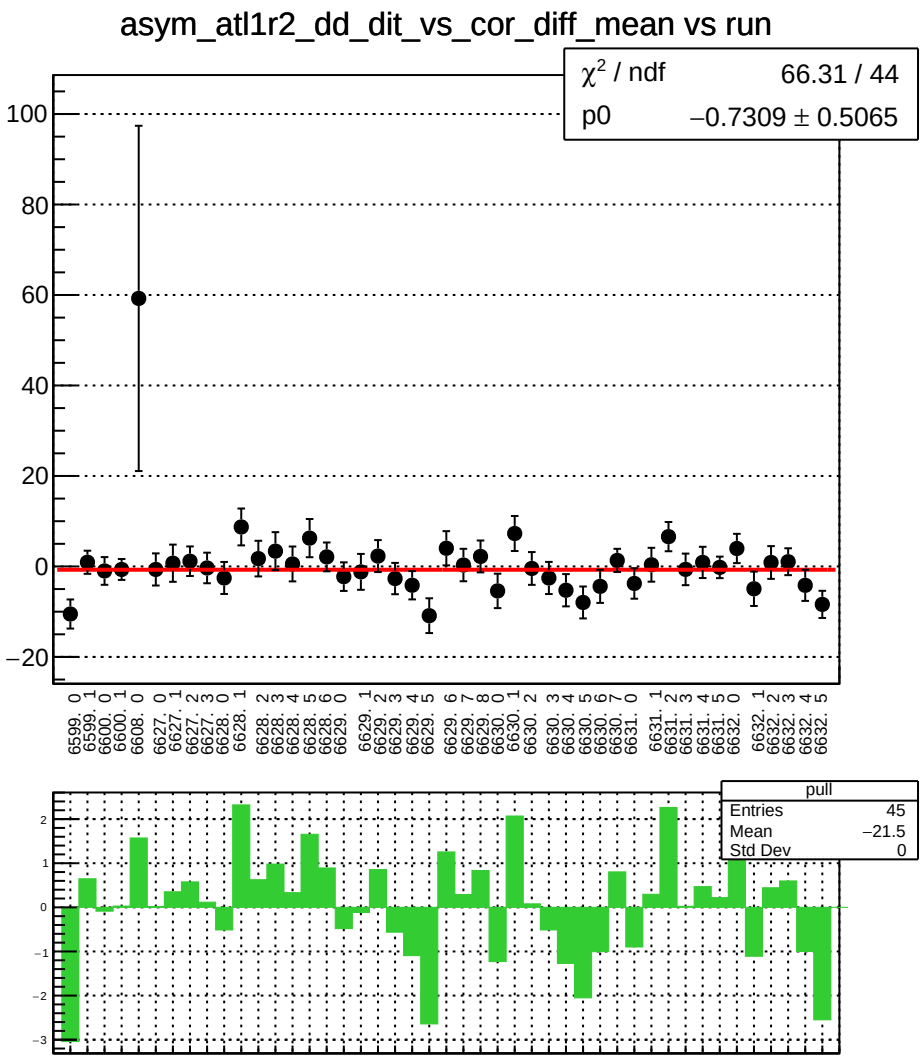
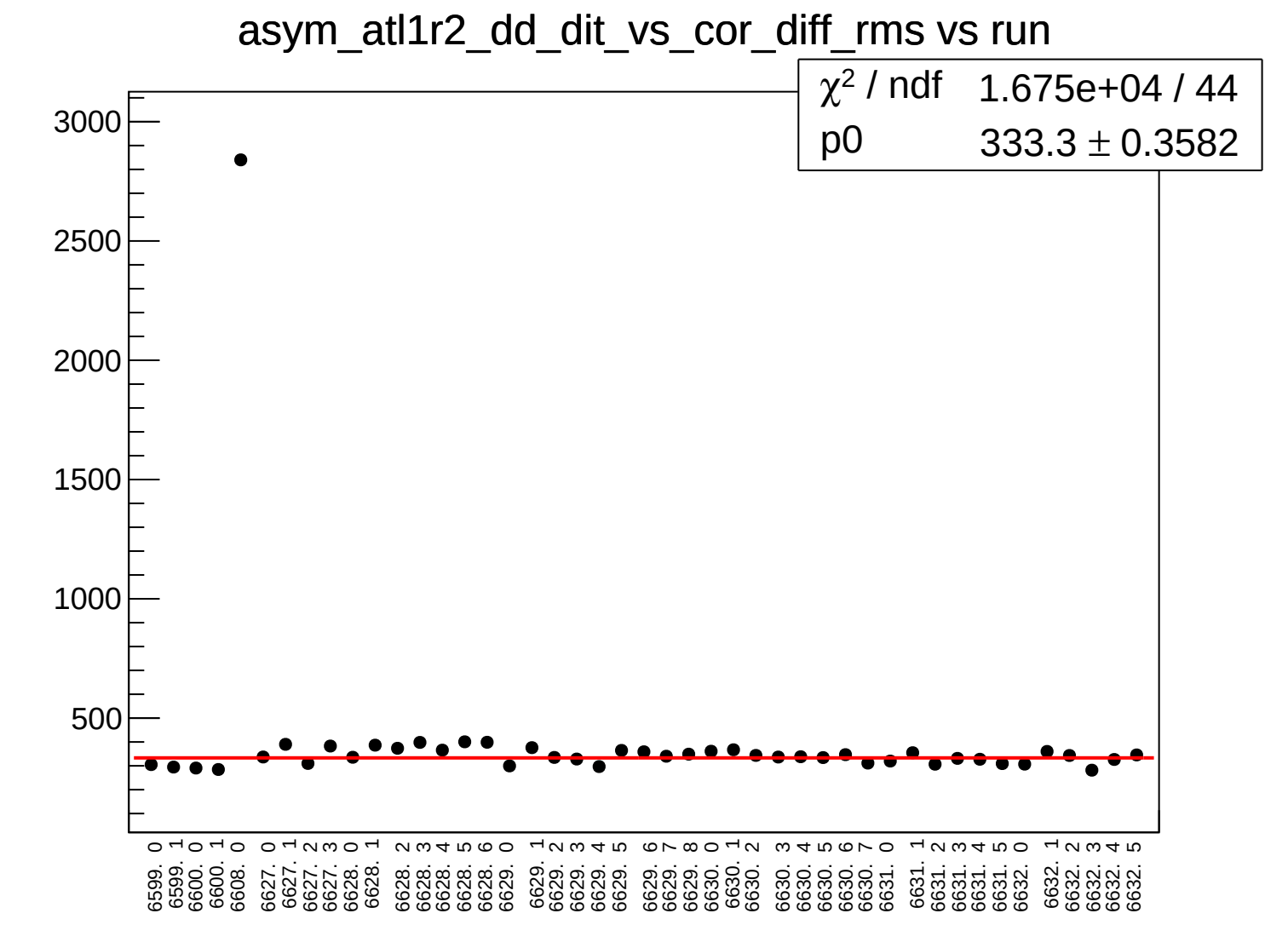
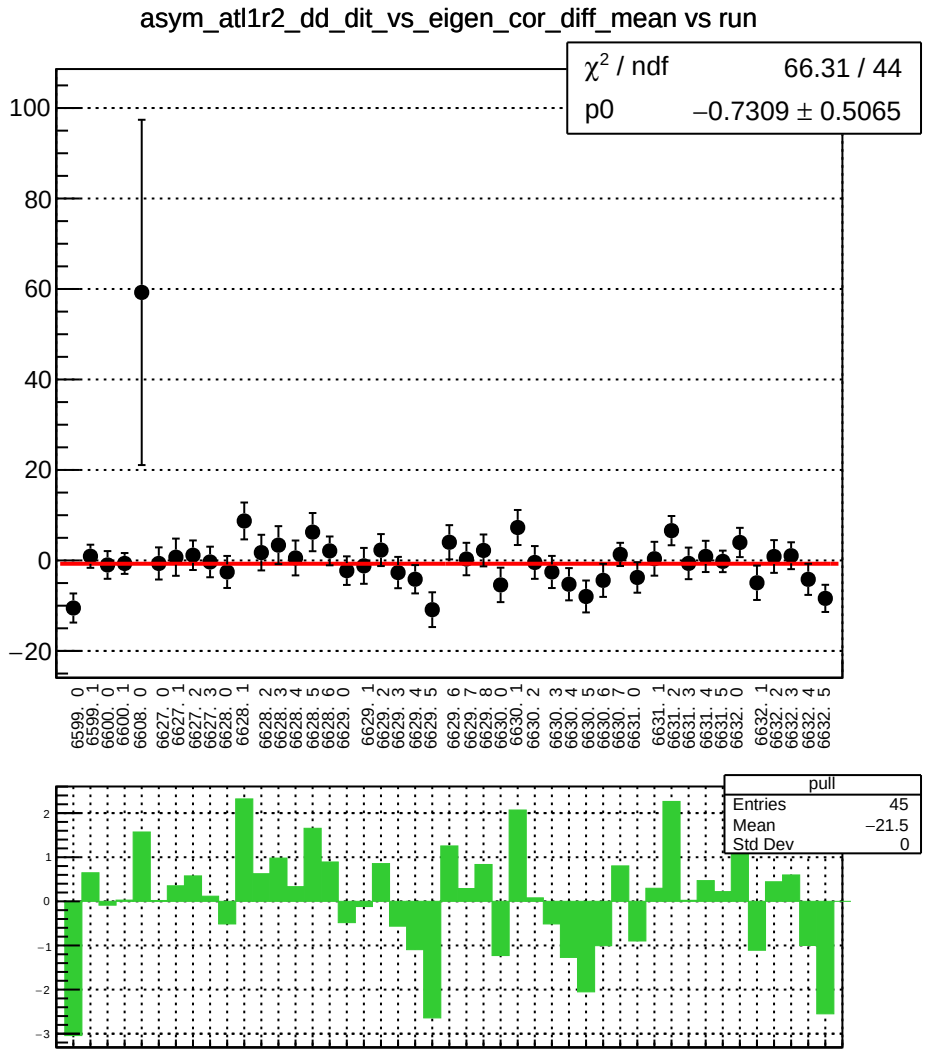
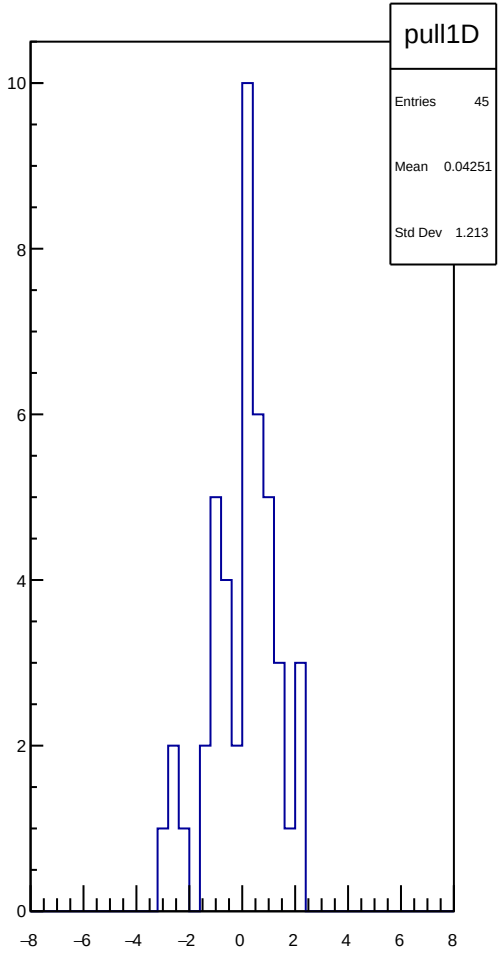
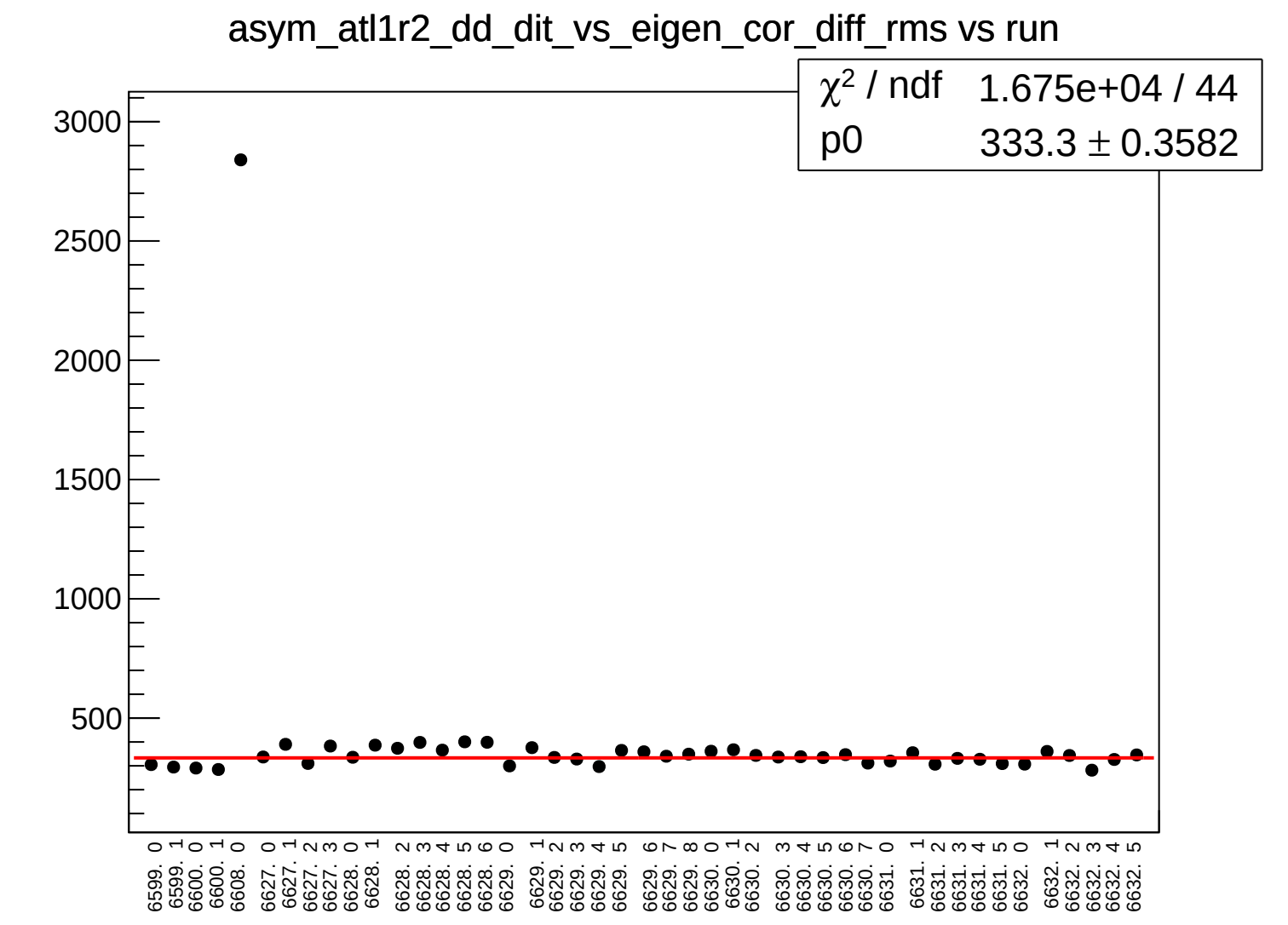
6632. 4
6632. 5


asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 66.31 / 44
p0 −0.7309 ± 0.5065
100
80
60
40
20
0
−20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −21.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.04251
Std Dev 1.213
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.675e+04 / 44
p0 333.3 ± 0.3582
3000
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.31 / 44
p0 −0.7309 ± 0.5065
pull
Entries 45
Mean −21.5
Std Dev 0


pull1D
Entries 45
Mean 0.04251
Std Dev 1.213


asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.675e+04 / 44
p0 333.3 ± 0.3582
3000
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
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6630. 0
6630. 1
6630. 2
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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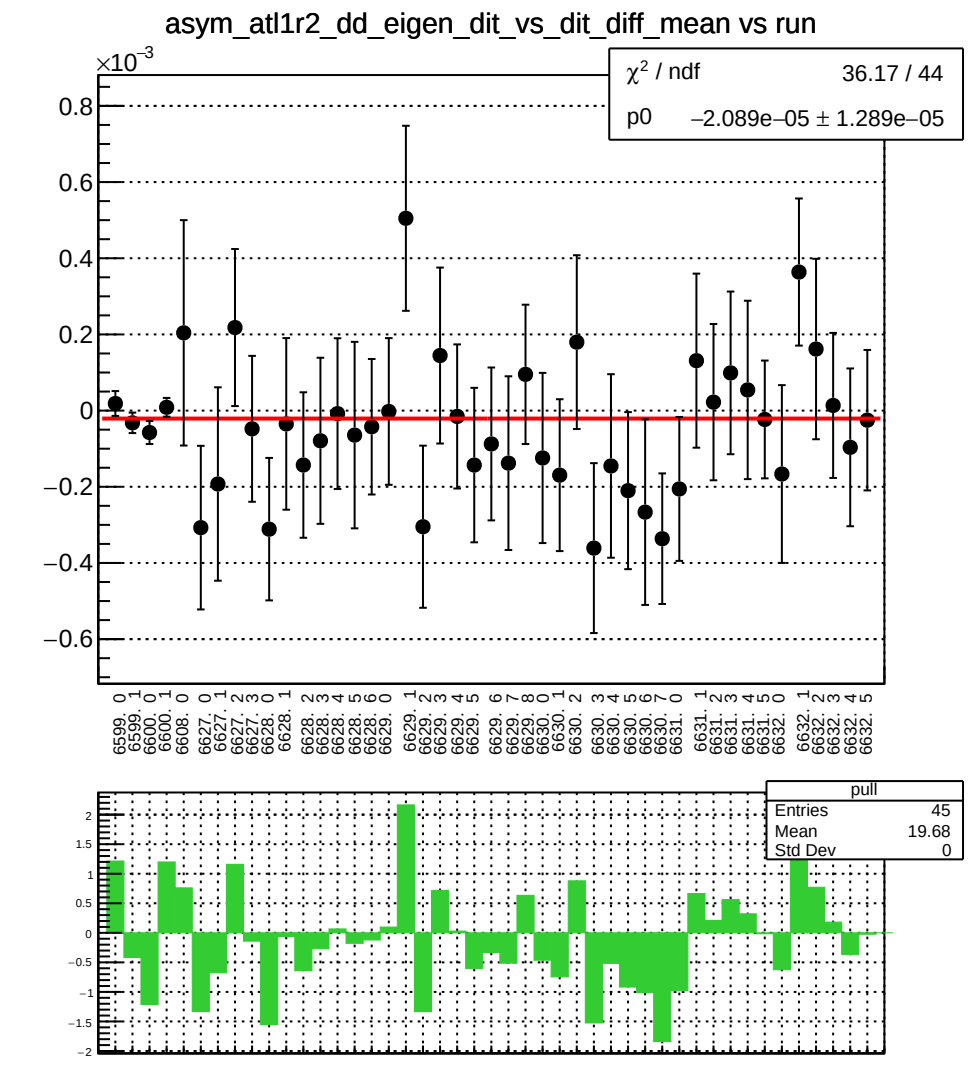
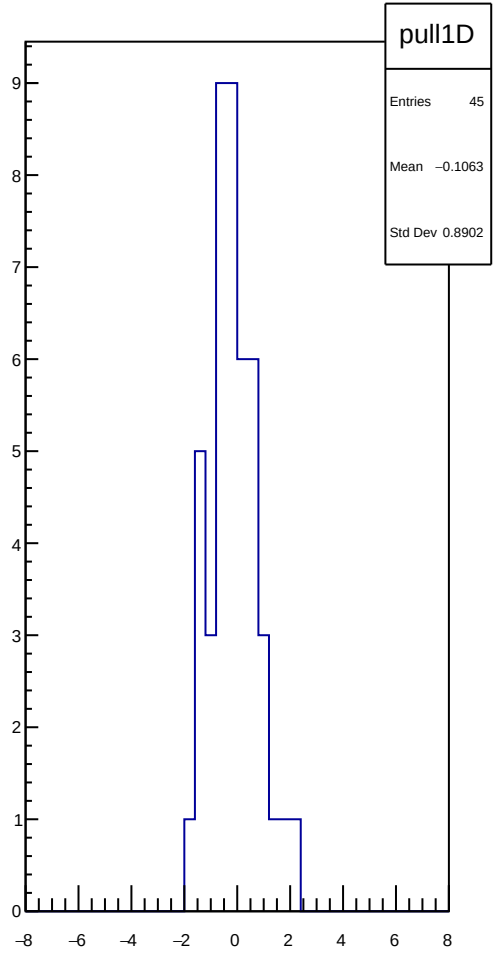
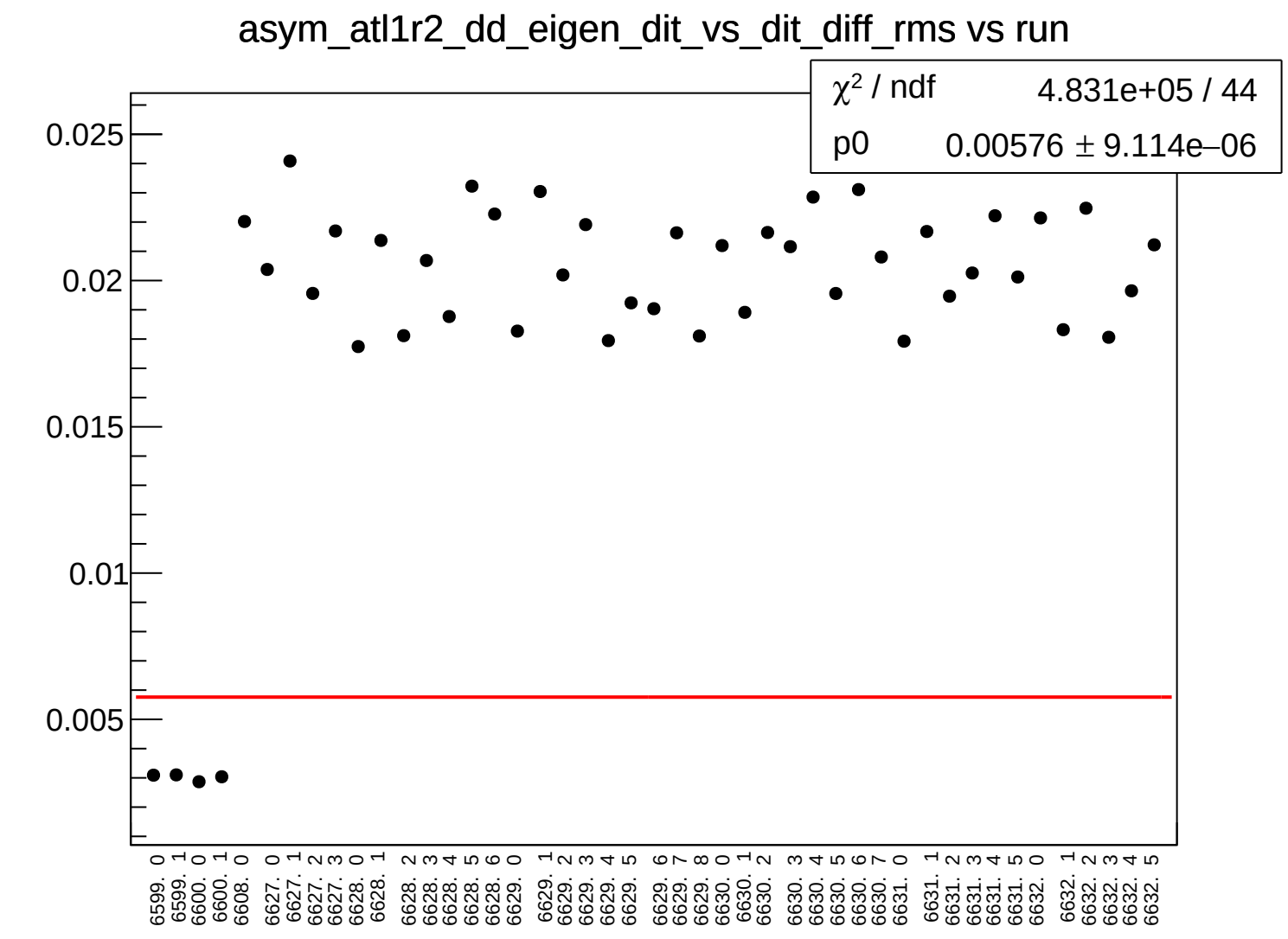
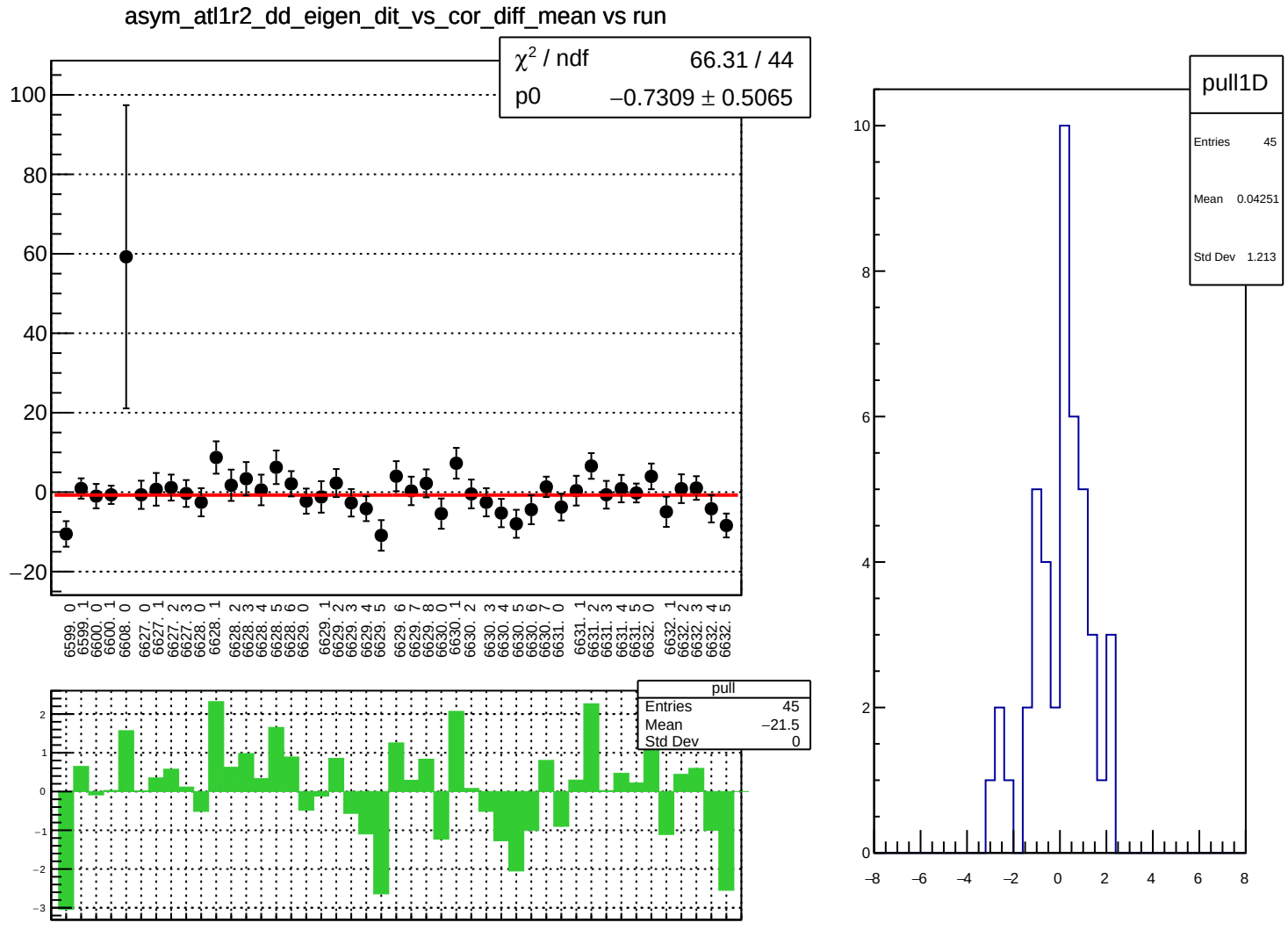
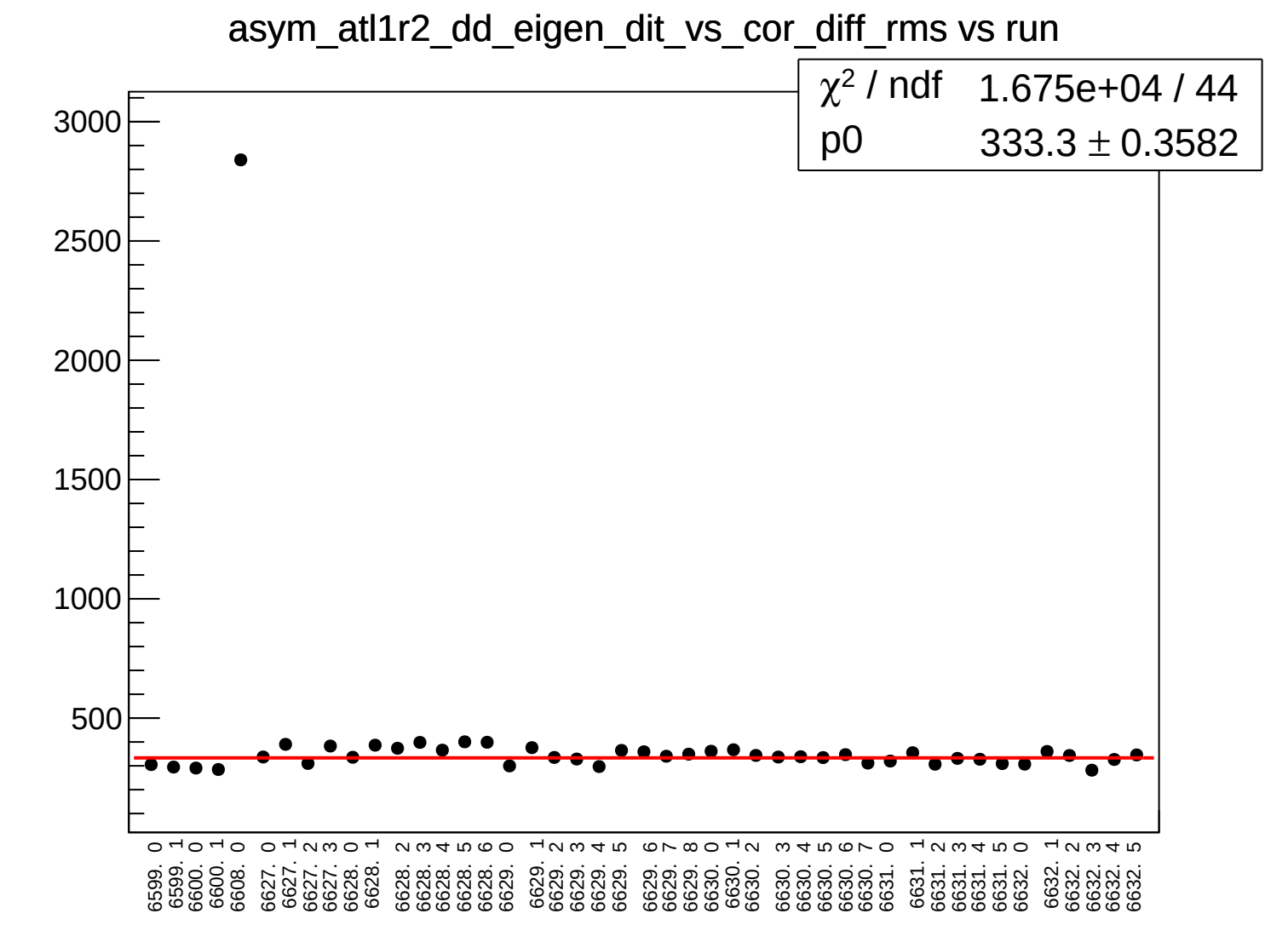
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

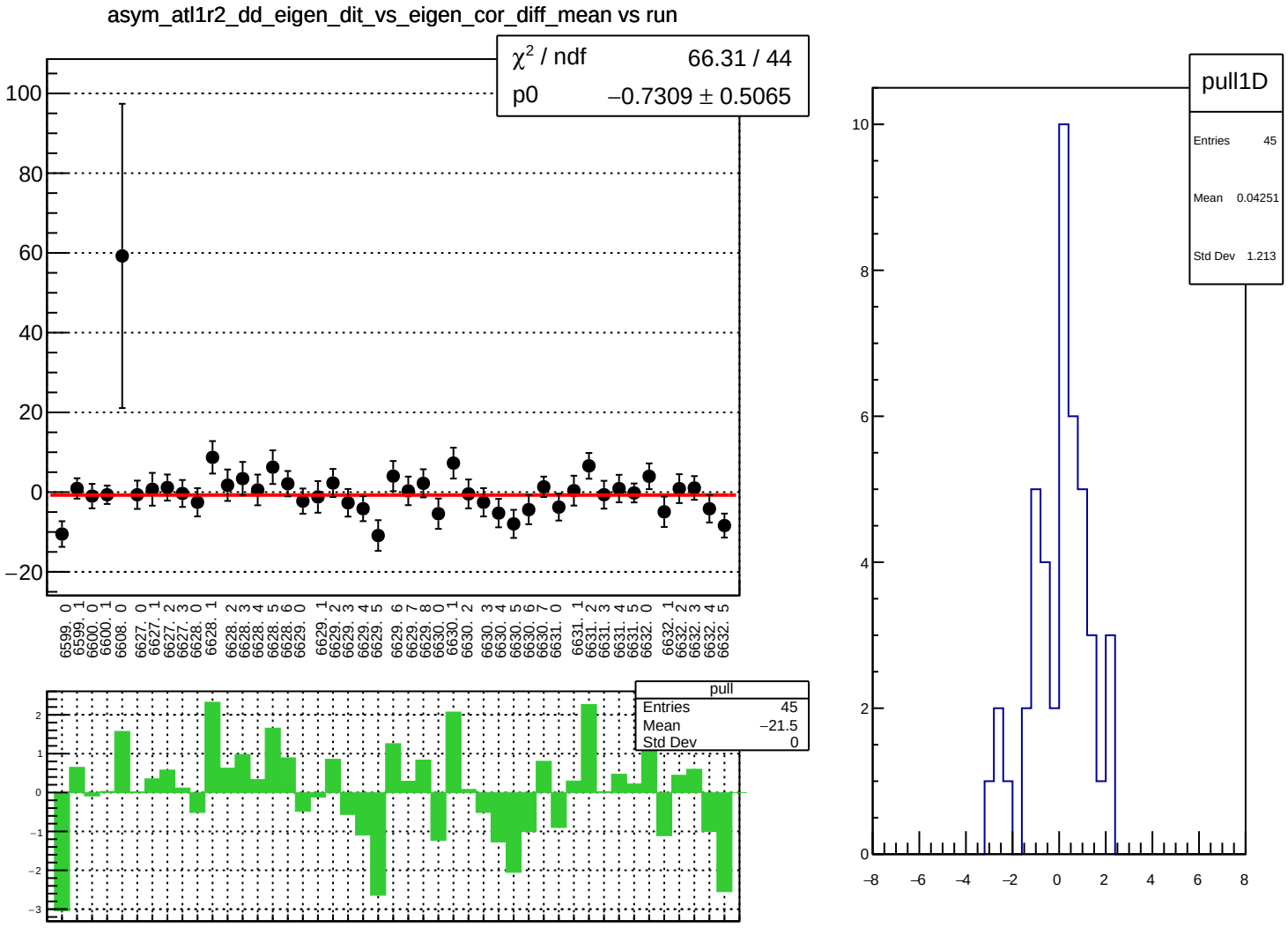

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 36.17 / 44
p0 −2.089e−05 ± 1.289e−05
pull
Entries 45
Mean 19.68
Std Dev 0

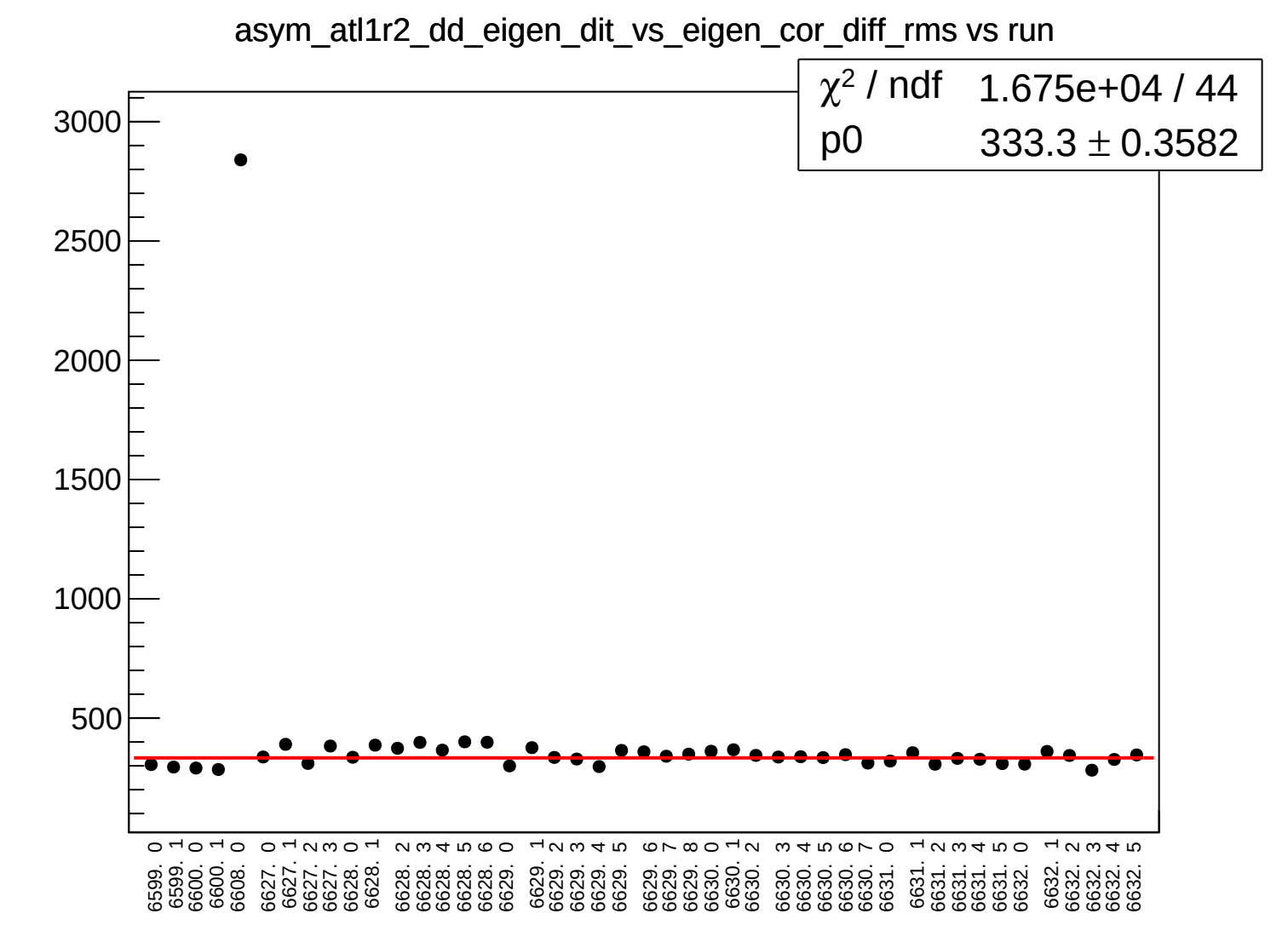

pull1D
Entries 45
Mean −0.1063
Std Dev 0.8902

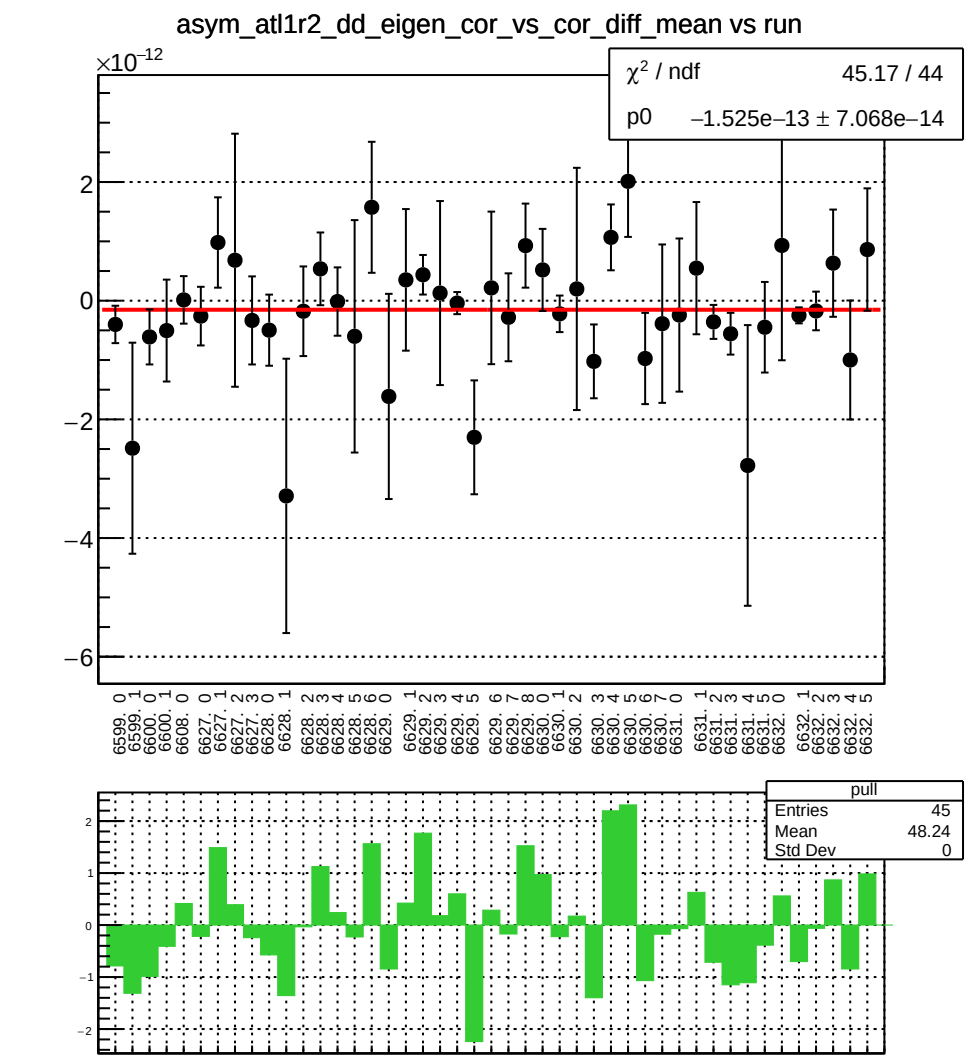

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.831e+05 / 44
p0 0.00576 ± 9.114e−06
0.025
0.02
0.015
0.01
0.005
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

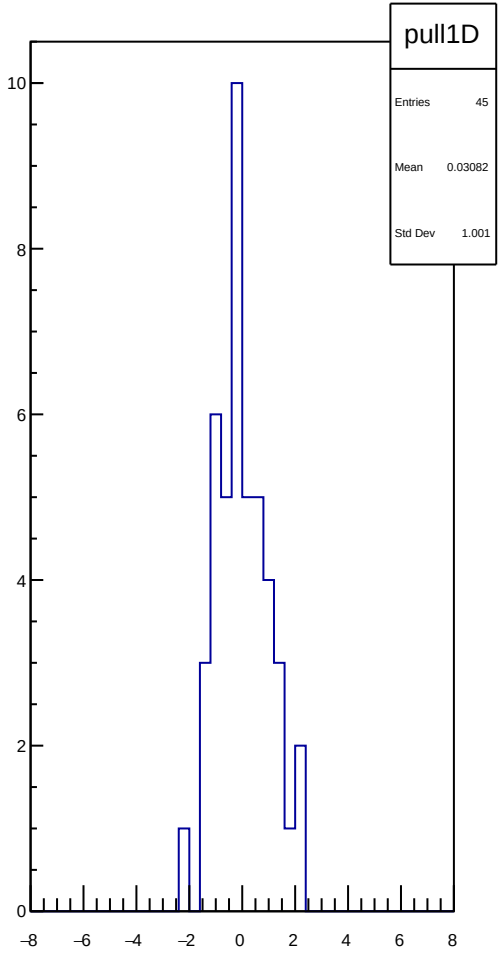

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.31 / 44
p0 −0.7309 ± 0.5065
100
80
60
40
20
0
−20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −21.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.04251
Std Dev 1.213
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

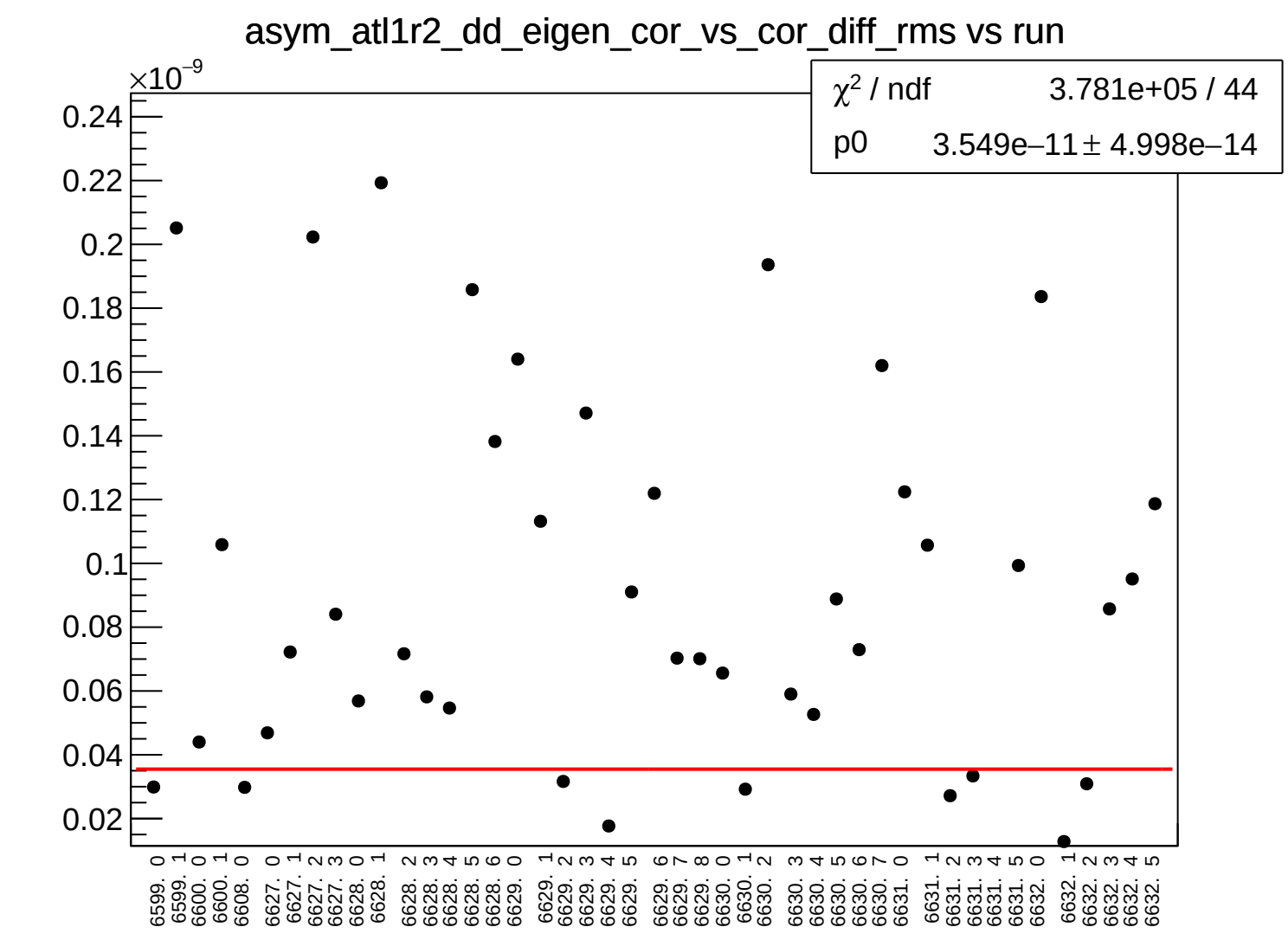

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.675e+04 / 44
p0 333.3 ± 0.3582
3000
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

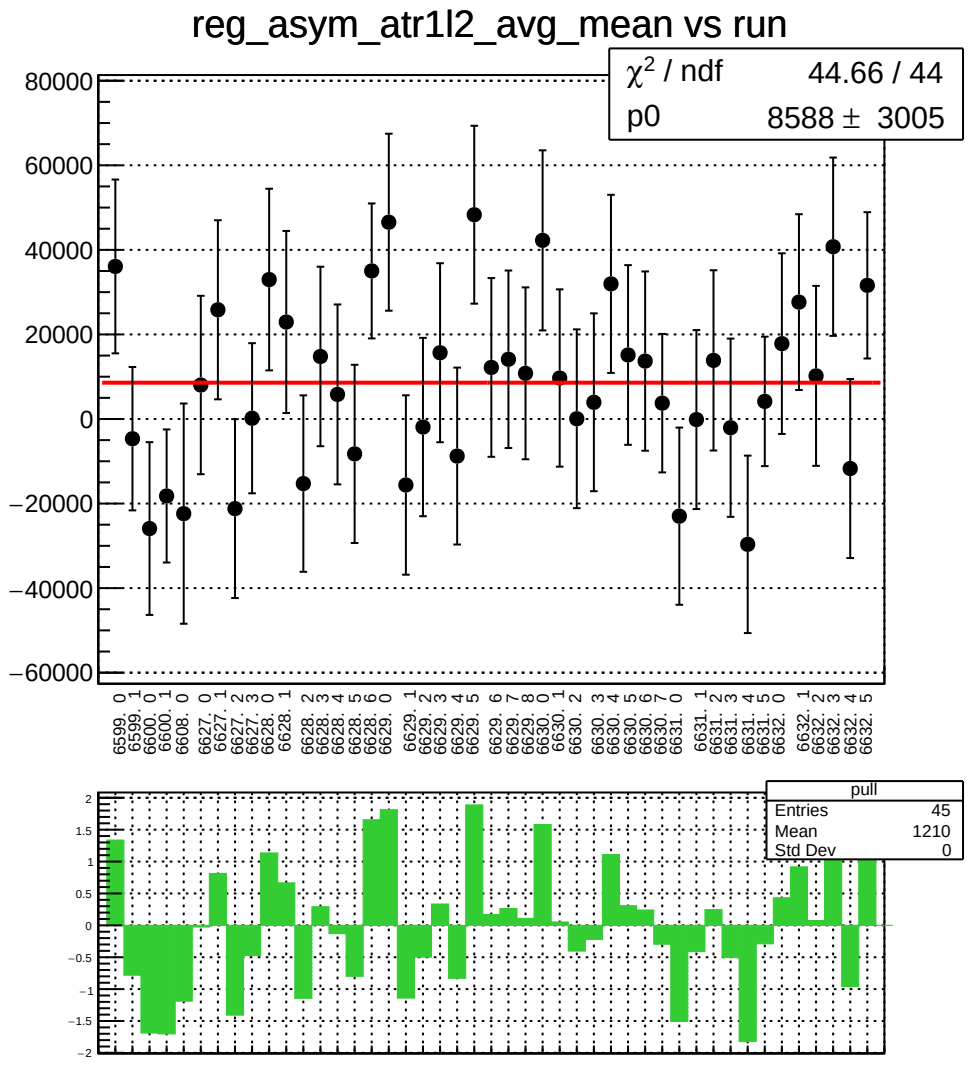

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.31 / 44
p0 −0.7309 ± 0.5065
100
80
60
40
20
0
−20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −21.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.04251
Std Dev 1.213
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

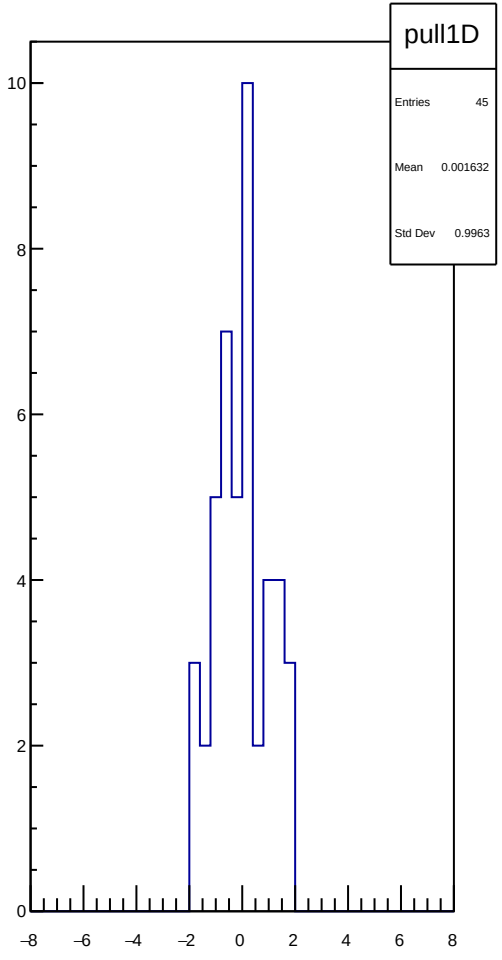

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.675e+04 / 44
p0 333.3 ± 0.3582
3000
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

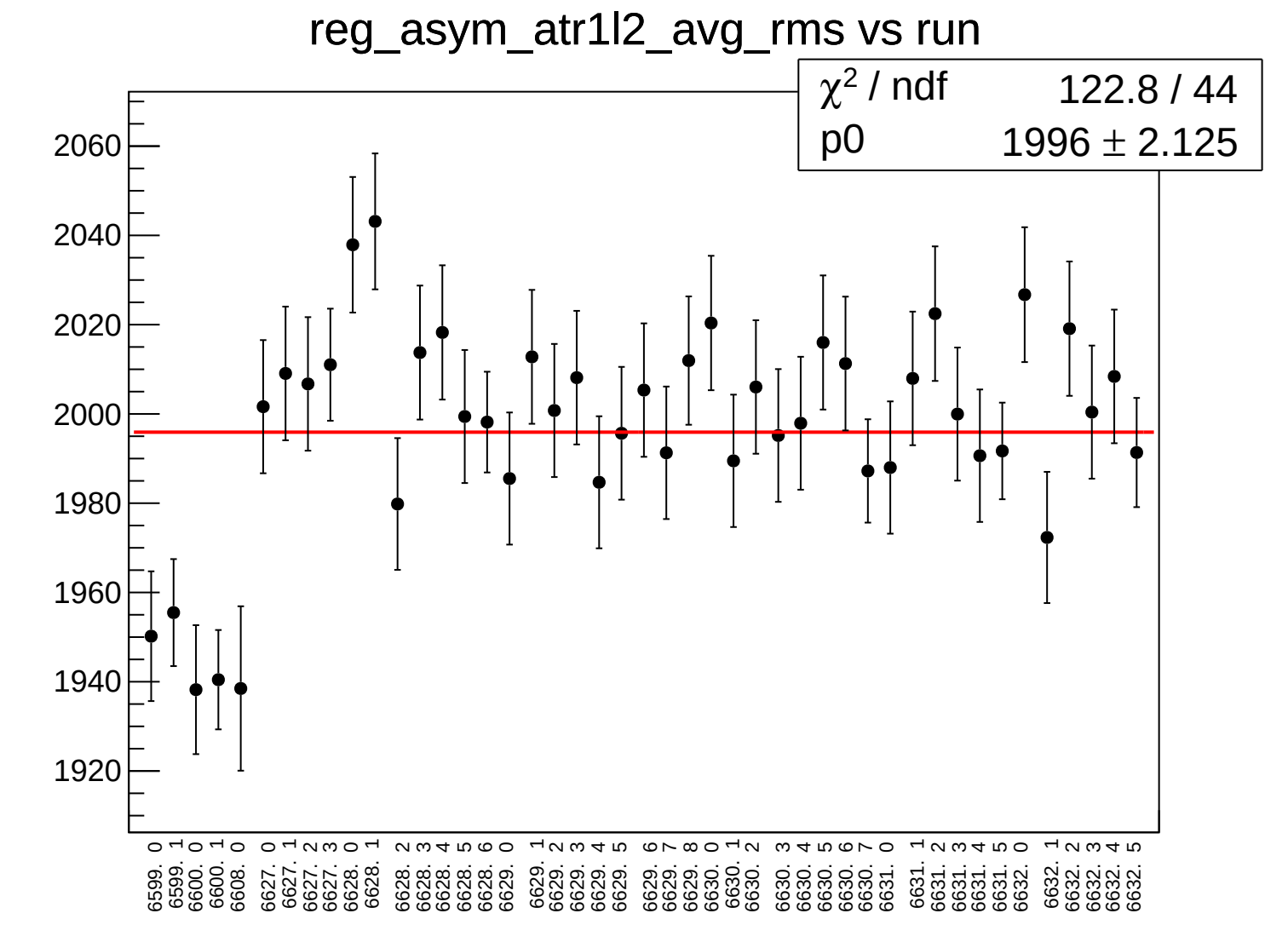

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 45.17 / 44
p0 −1.525e−13 ± 7.068e−14
pull
Entries 45
Mean 48.24
Std Dev 0


pull1D
Entries 45
Mean 0.03082
Std Dev 1.001


asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.781e+05 / 44
p0 3.549e−11 ± 4.998e−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
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


reg_asym_atr1l2_avg_mean vs run
χ² / ndf 44.66 / 44
p0 8588 ± 3005
80000
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 1210
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.001632
Std Dev 0.9963
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_avg_rms vs run
χ² / ndf 122.8 / 44
p0 1996 ± 2.125
2060
2040
2020
2000
1980
1960
1940
1920
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
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6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
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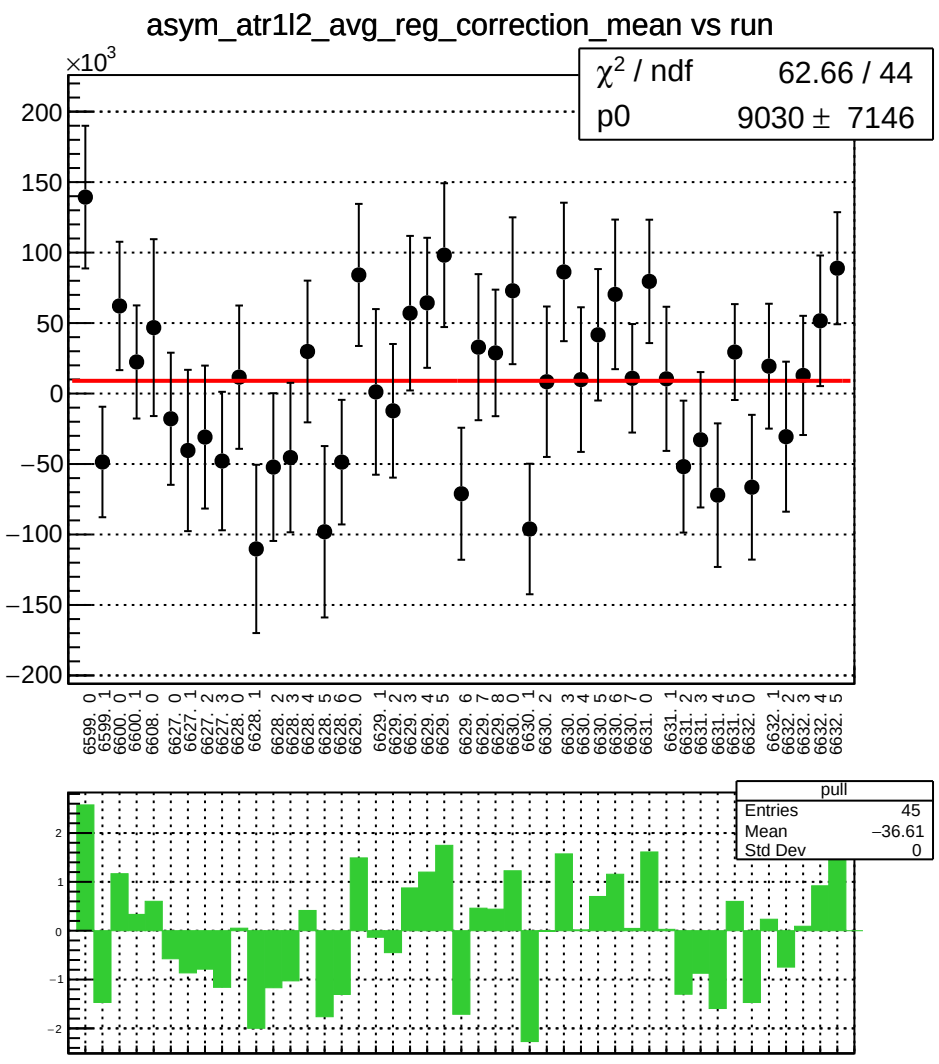
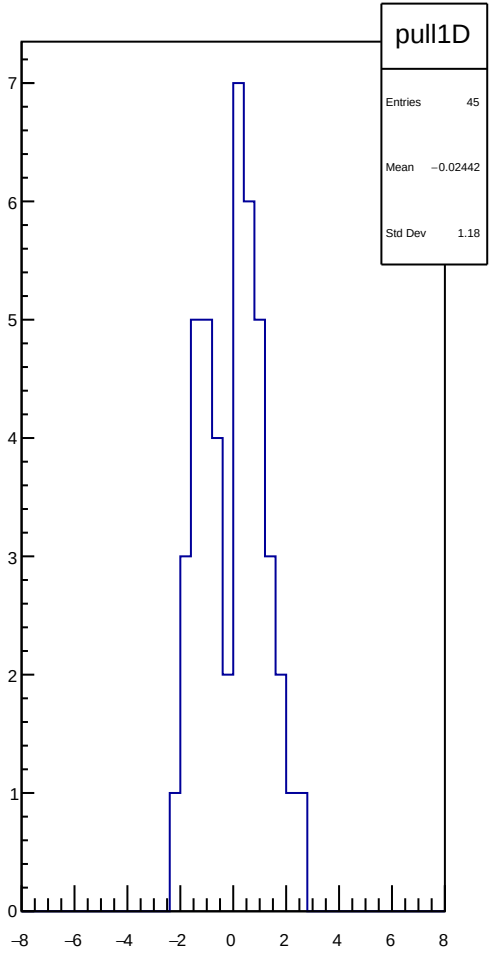
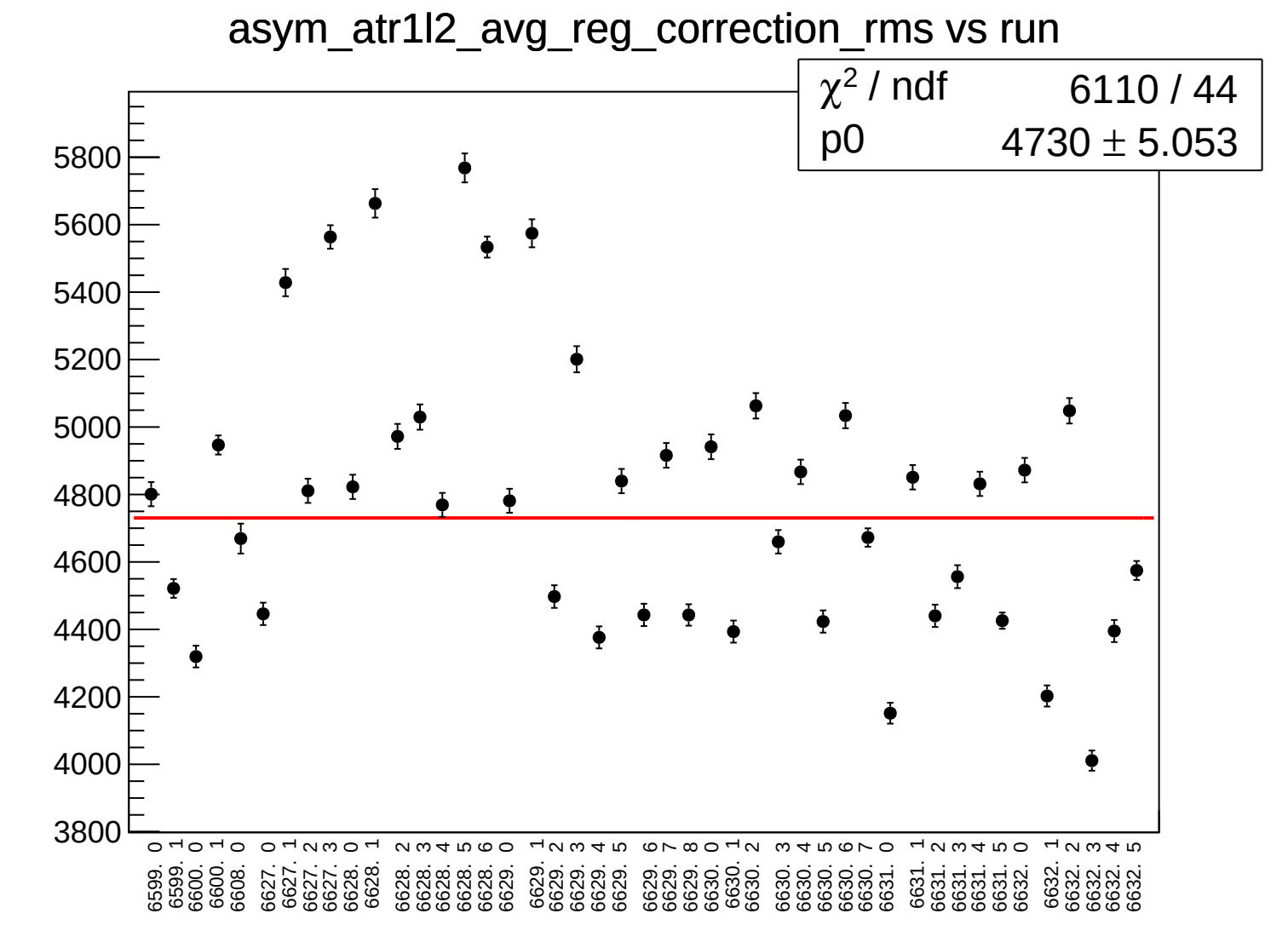
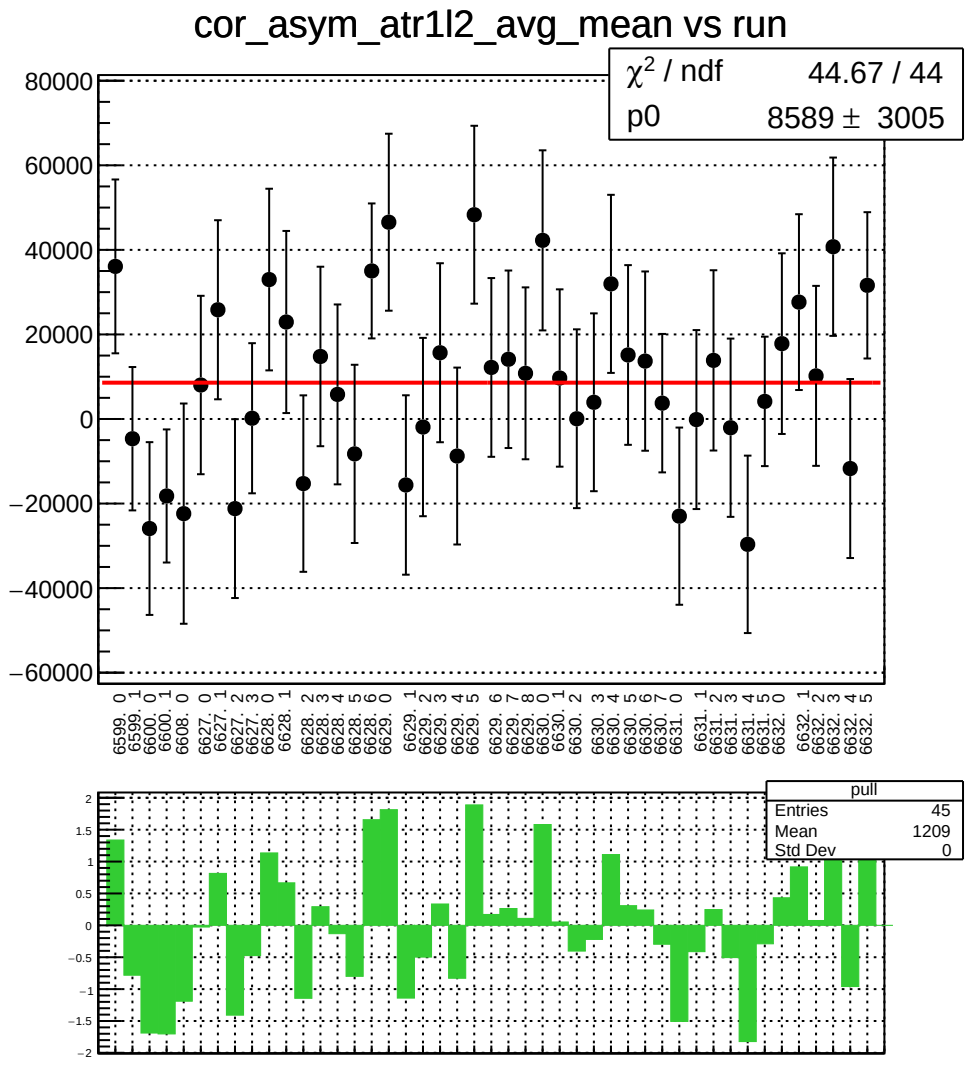

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 62.66 / 44
p0 9030 ± 7146
200
150
100
50
0
−50
−100
−150
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −36.61
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.02442
Std Dev 1.18
7
6
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 6110 / 44
p0 4730 ± 5.053
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_atr1l2_avg_mean vs run
χ² / ndf 44.67 / 44
p0 8589 ± 3005
80000
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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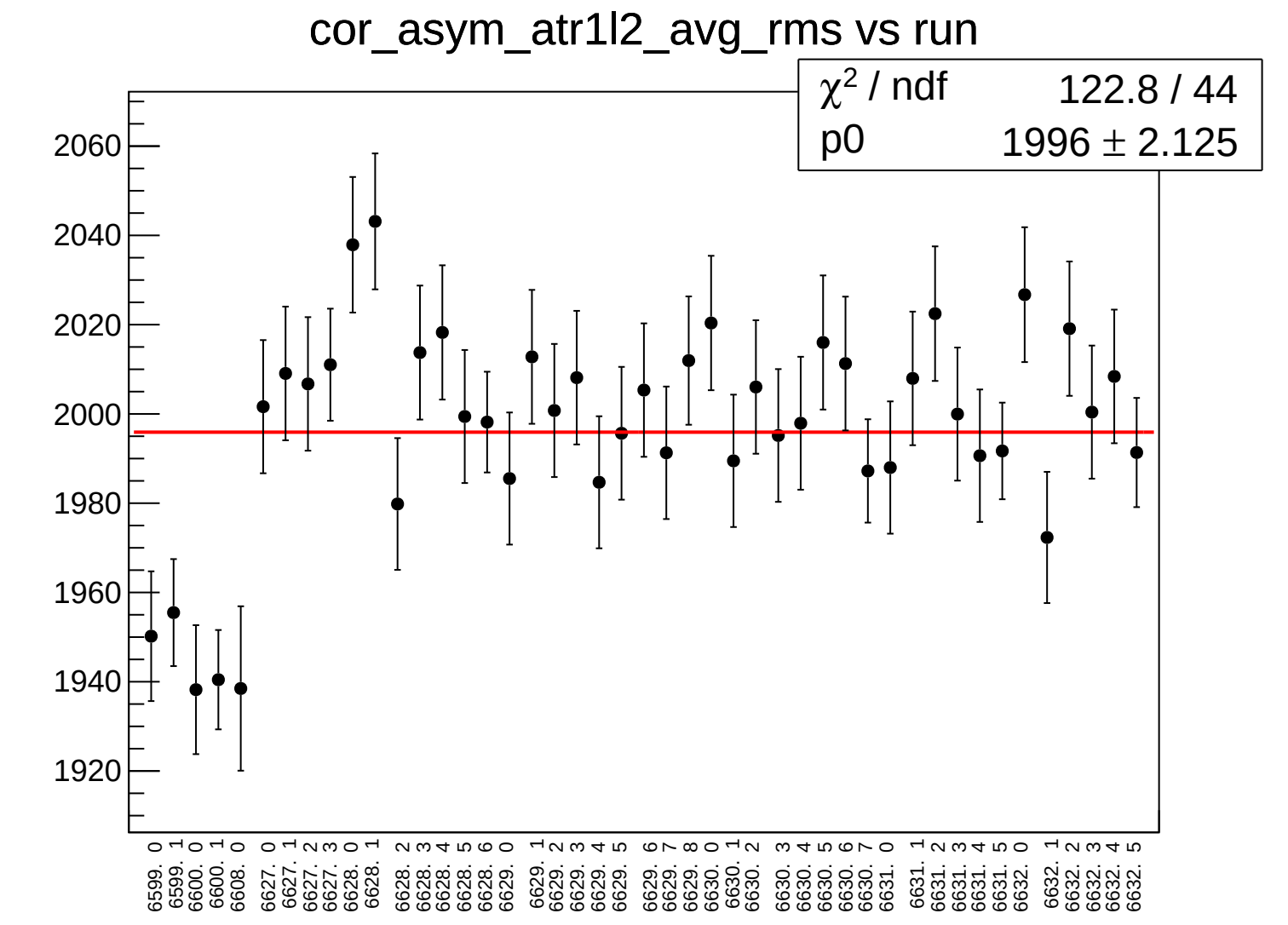
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 1209
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.001633
Std Dev 0.9963
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atr1l2_avg_rms vs run
χ² / ndf 122.8 / 44
p0 1996 ± 2.125
2060
2040
2020
2000
1980
1960
1940
1920
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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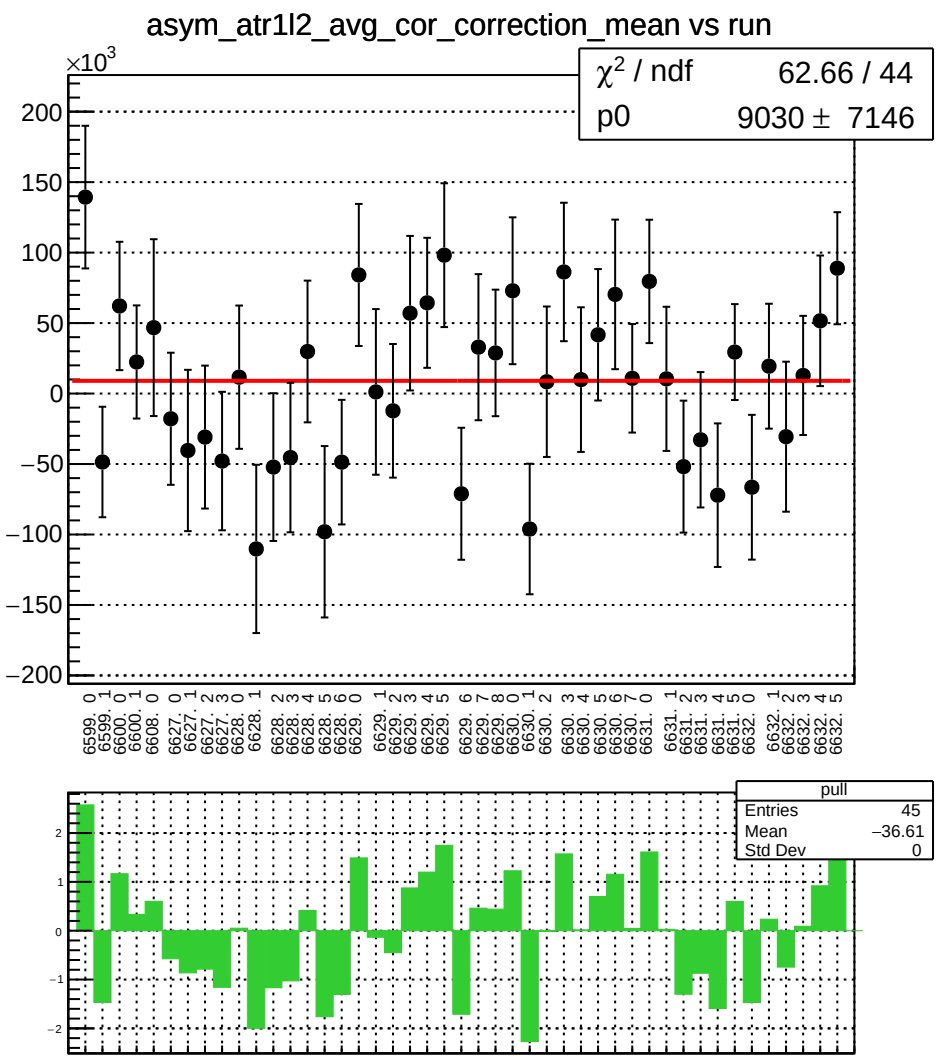
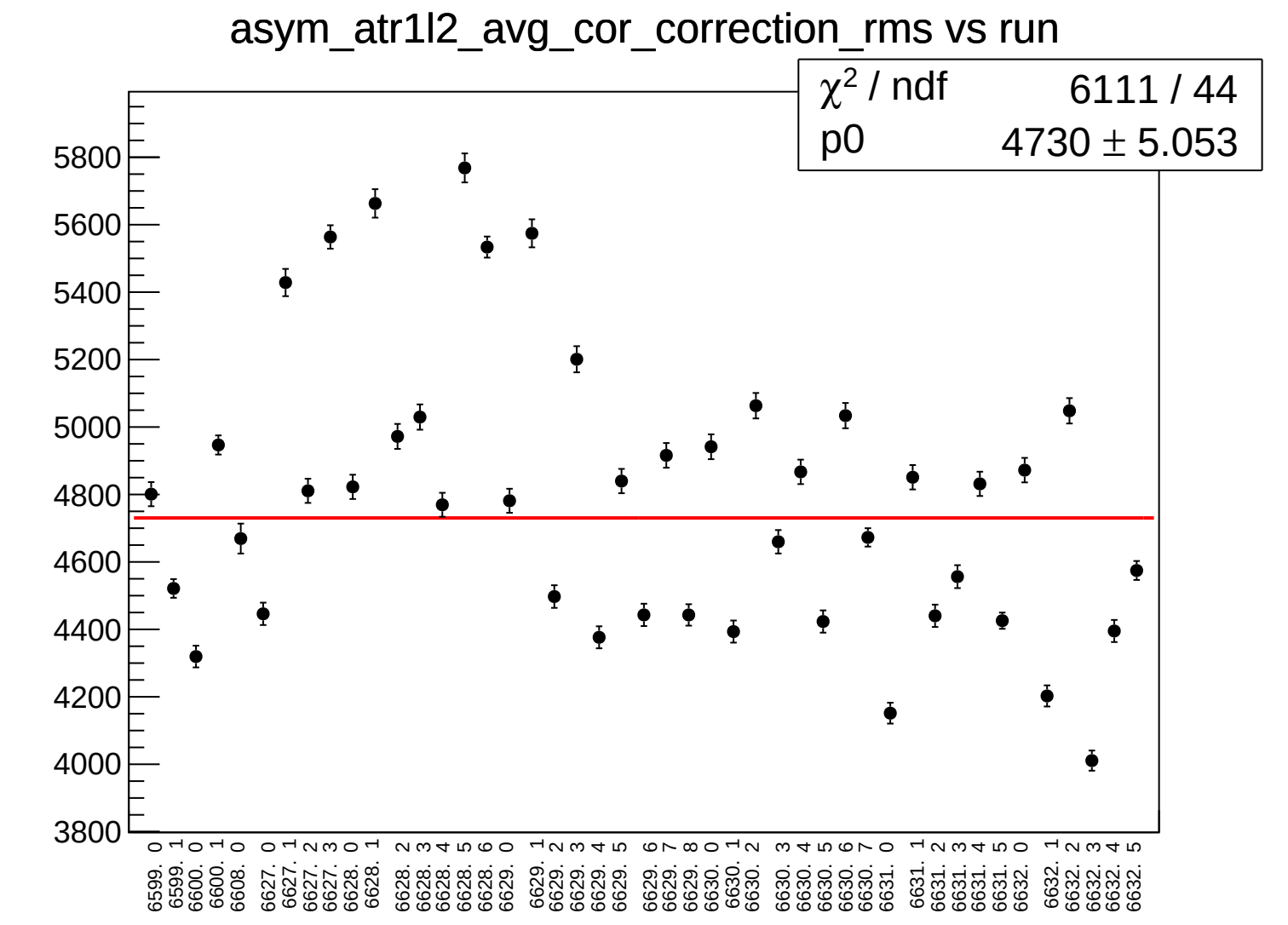
6632. 4
6632. 5


asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 62.66 / 44
p0 9030 ± 7146
200
150
100
50
0
−50
−100
−150
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −36.61
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02442
Std Dev 1.18
7
6
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 6111 / 44
p0 4730 ± 5.053
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
6632. 0
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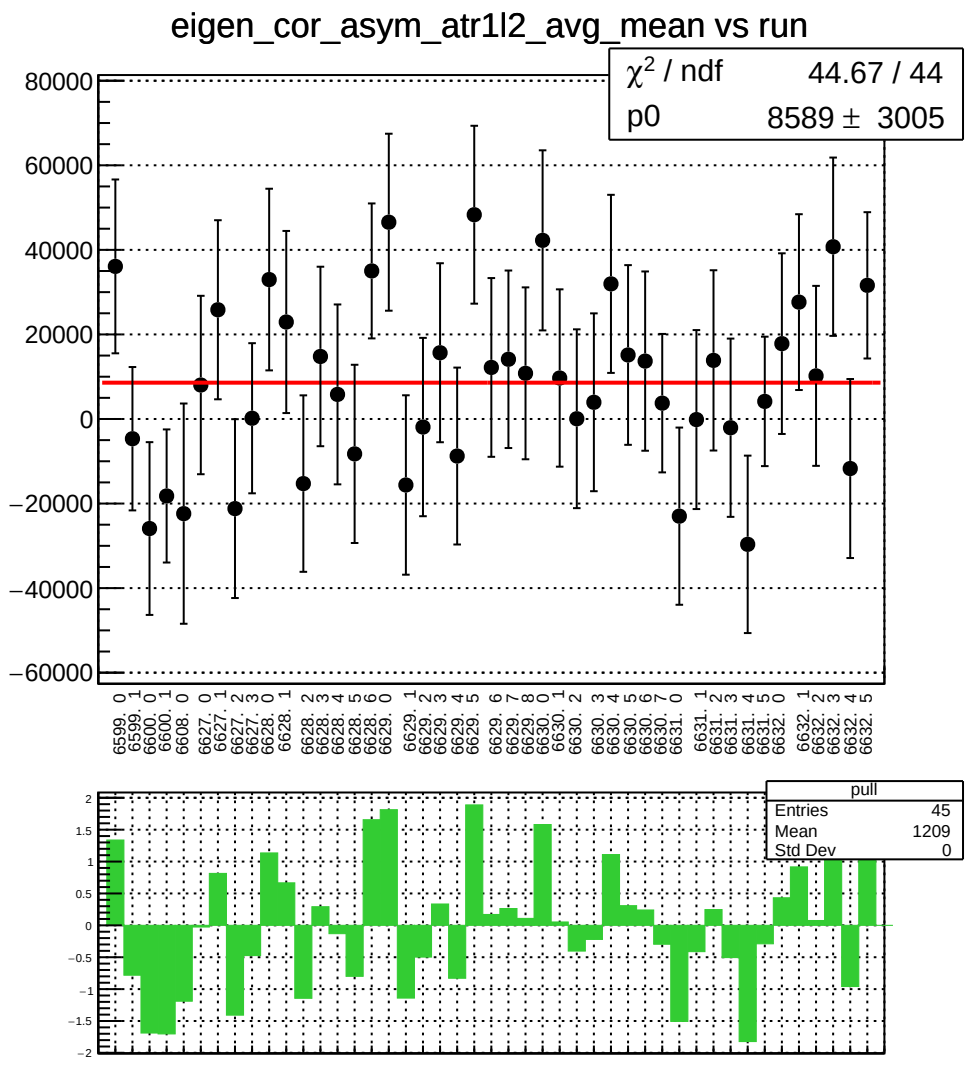
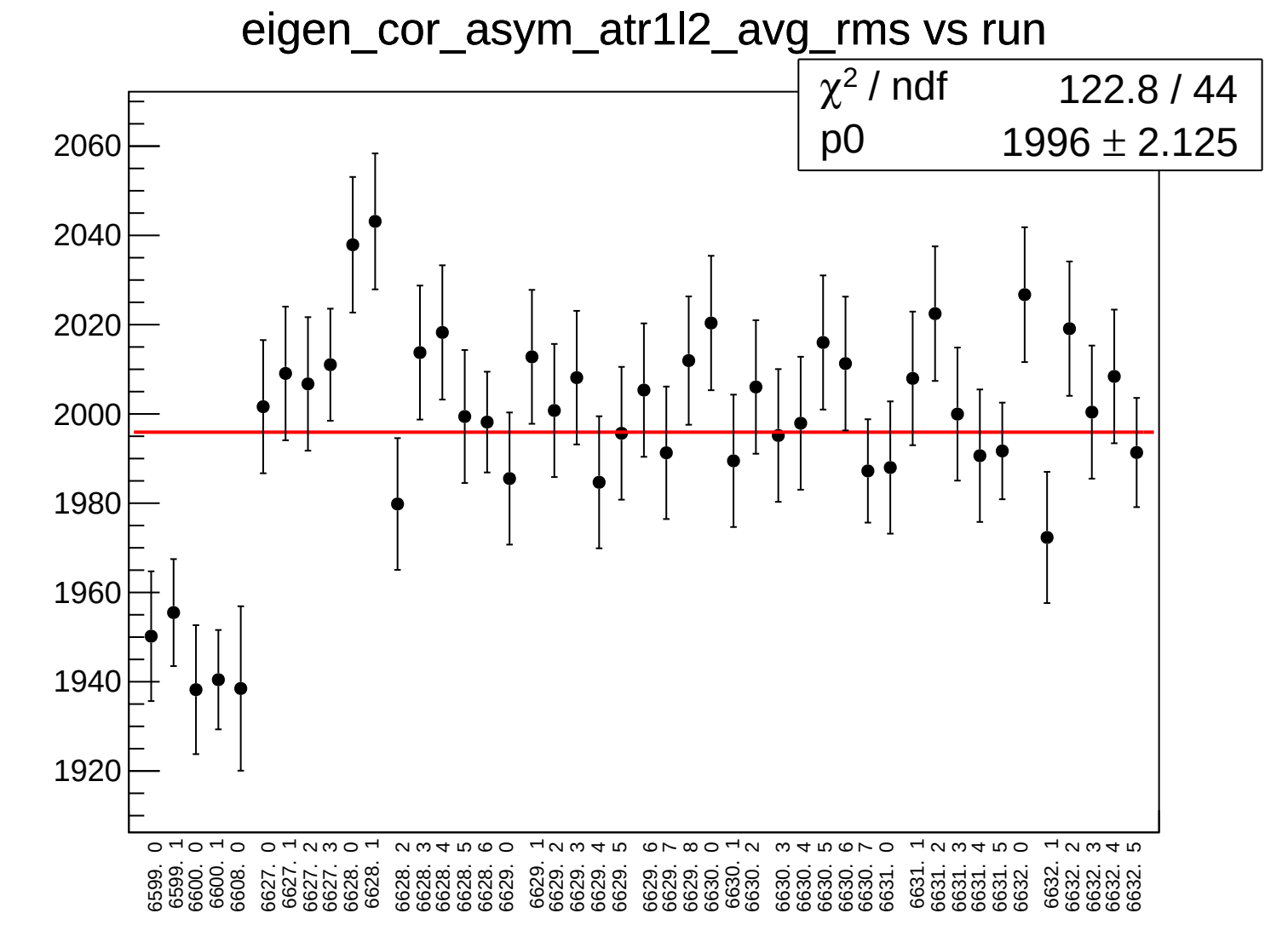
6632. 2
6632. 3
6632. 4
6632. 5


eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 44.67 / 44
p0 8589 ± 3005
pull
Entries 45
Mean 1209
Std Dev 0
pull1D
Entries 45
Mean 0.001633
Std Dev 0.9963


eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 122.8 / 44
p0 1996 ± 2.125
2060
2040
2020
2000
1980
1960
1940
1920
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6632. 0
6632. 1
6632. 2
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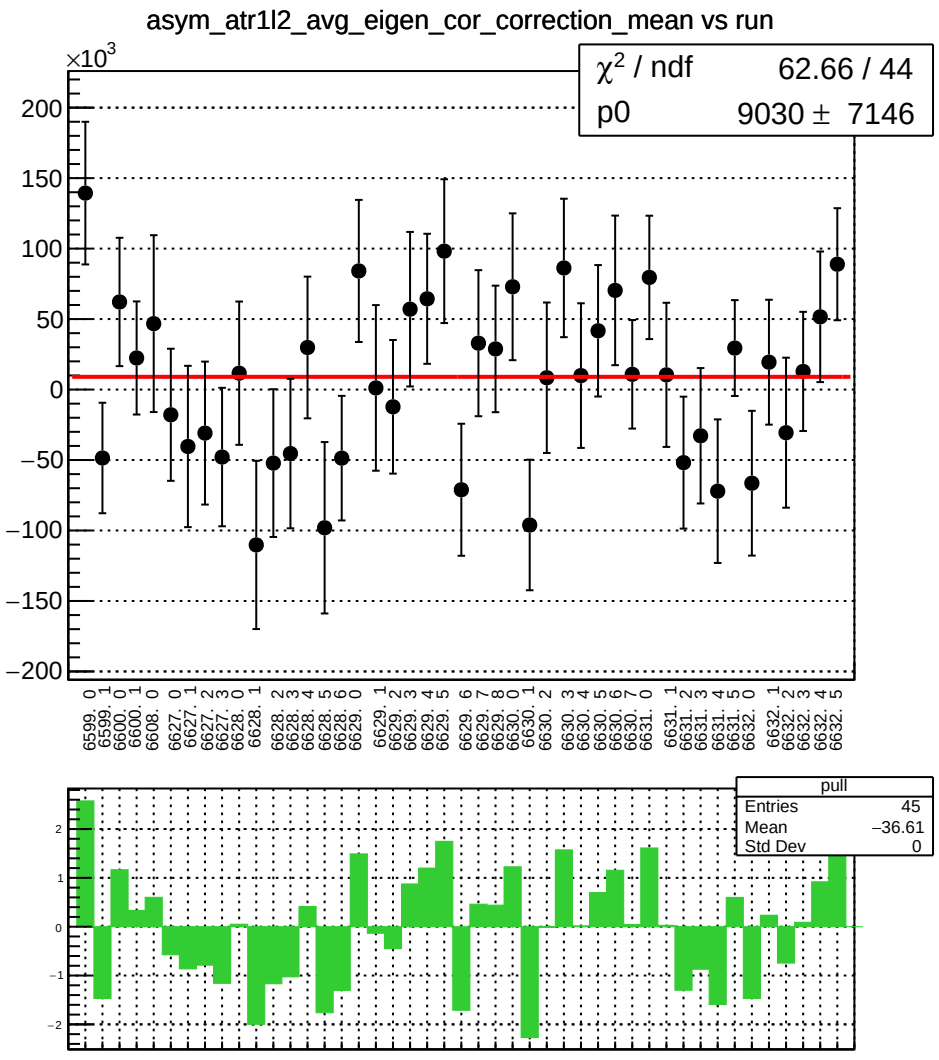
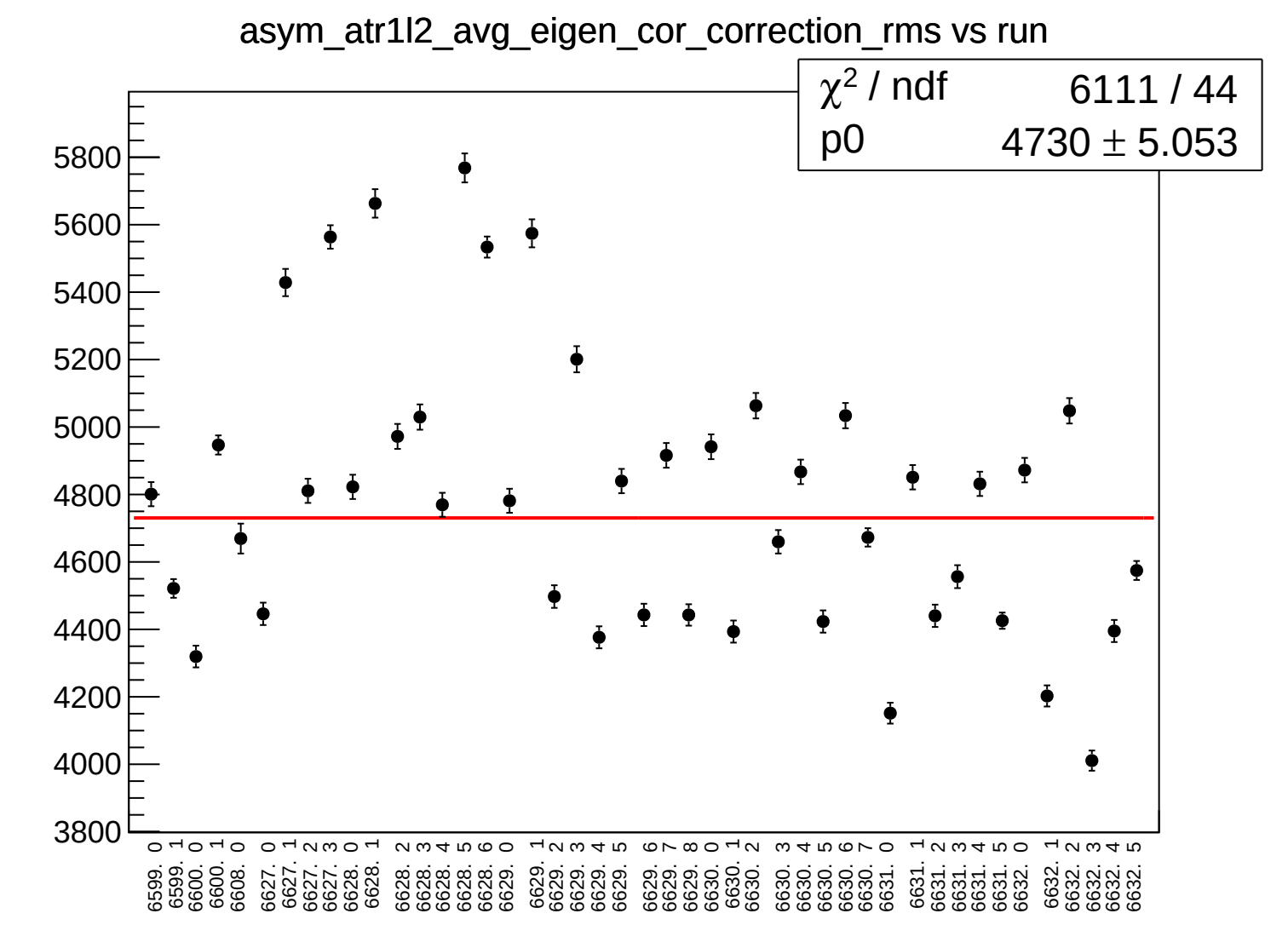
6632. 4
6632. 5


asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 62.66 / 44
p0 9030 ± 7146
200
150
100
50
0
−50
−100
−150
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −36.61
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02442
Std Dev 1.18
7
6
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 6111 / 44
p0 4730 ± 5.053
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
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6630. 0
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6630. 2
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6631. 0
6631. 1
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6632. 2
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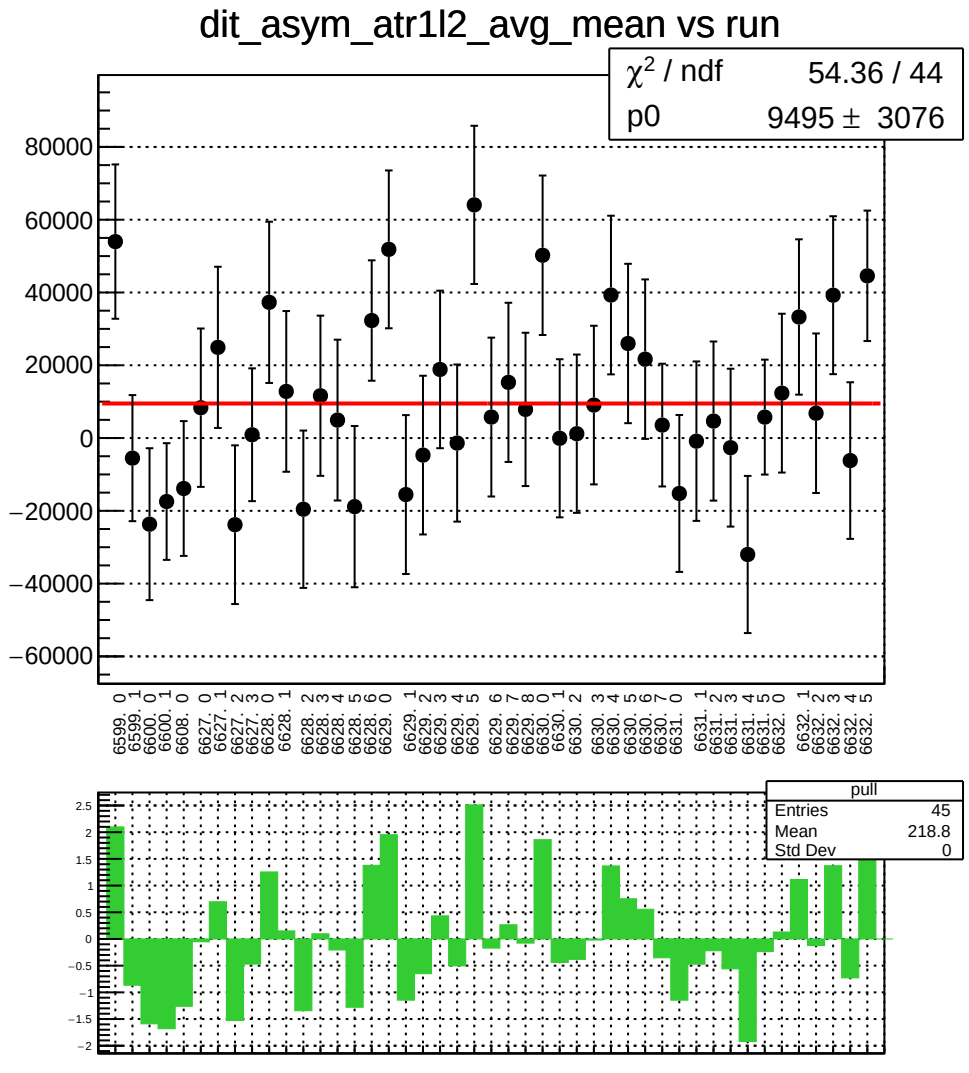
6632. 4
6632. 5


dit_asym_atr1l2_avg_mean vs run
χ² / ndf 54.36 / 44
p0 9495 ± 3076
80000
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
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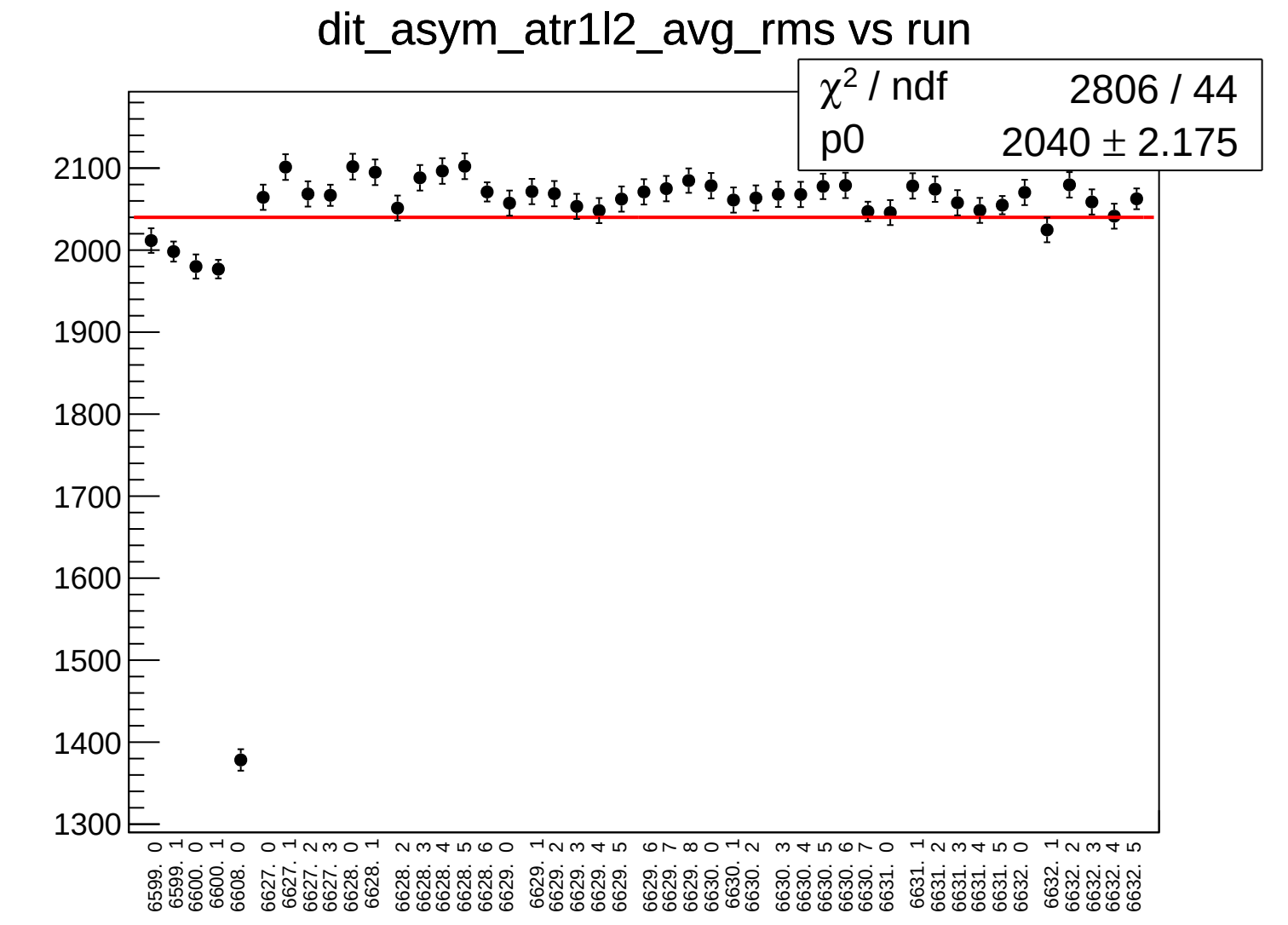
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 218.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01156
Std Dev 1.099
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atr1l2_avg_rms vs run
χ² / ndf 2806 / 44
p0 2040 ± 2.175
2100
2000
1900
1800
1700
1600
1500
1400
1300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
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6629. 4
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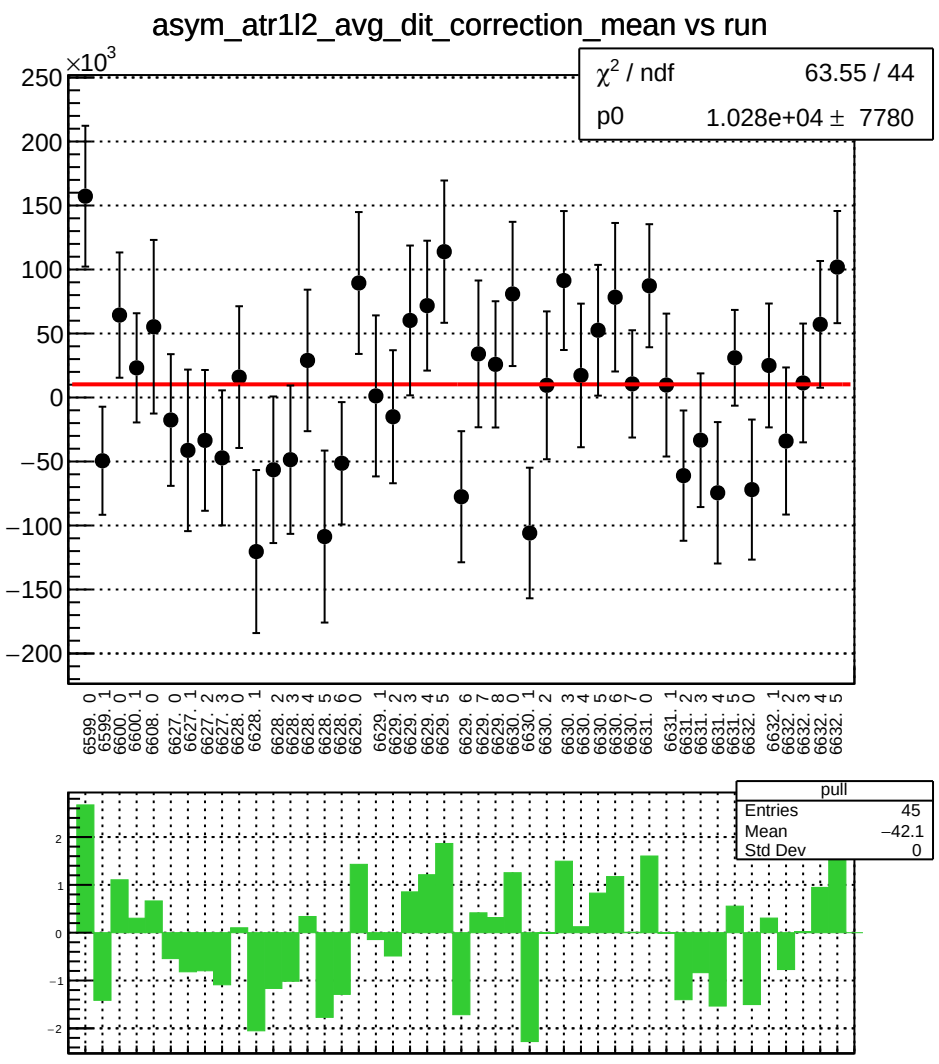
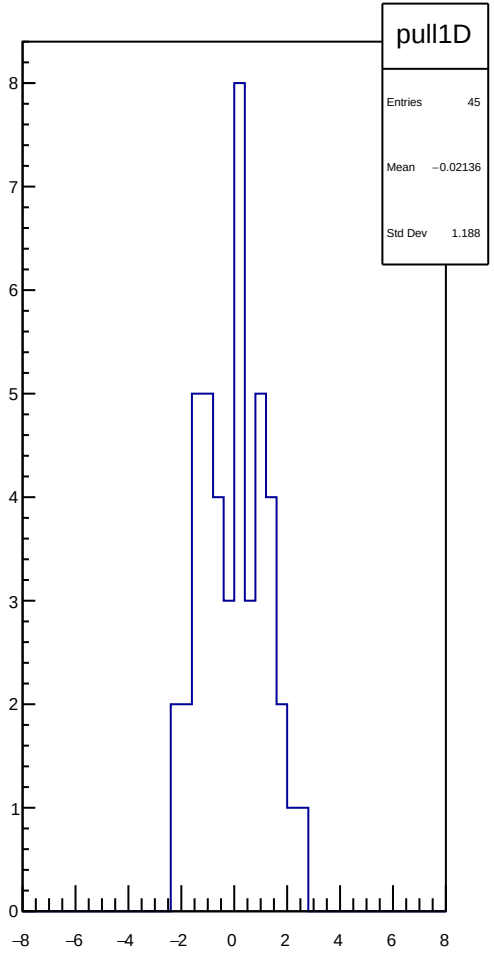
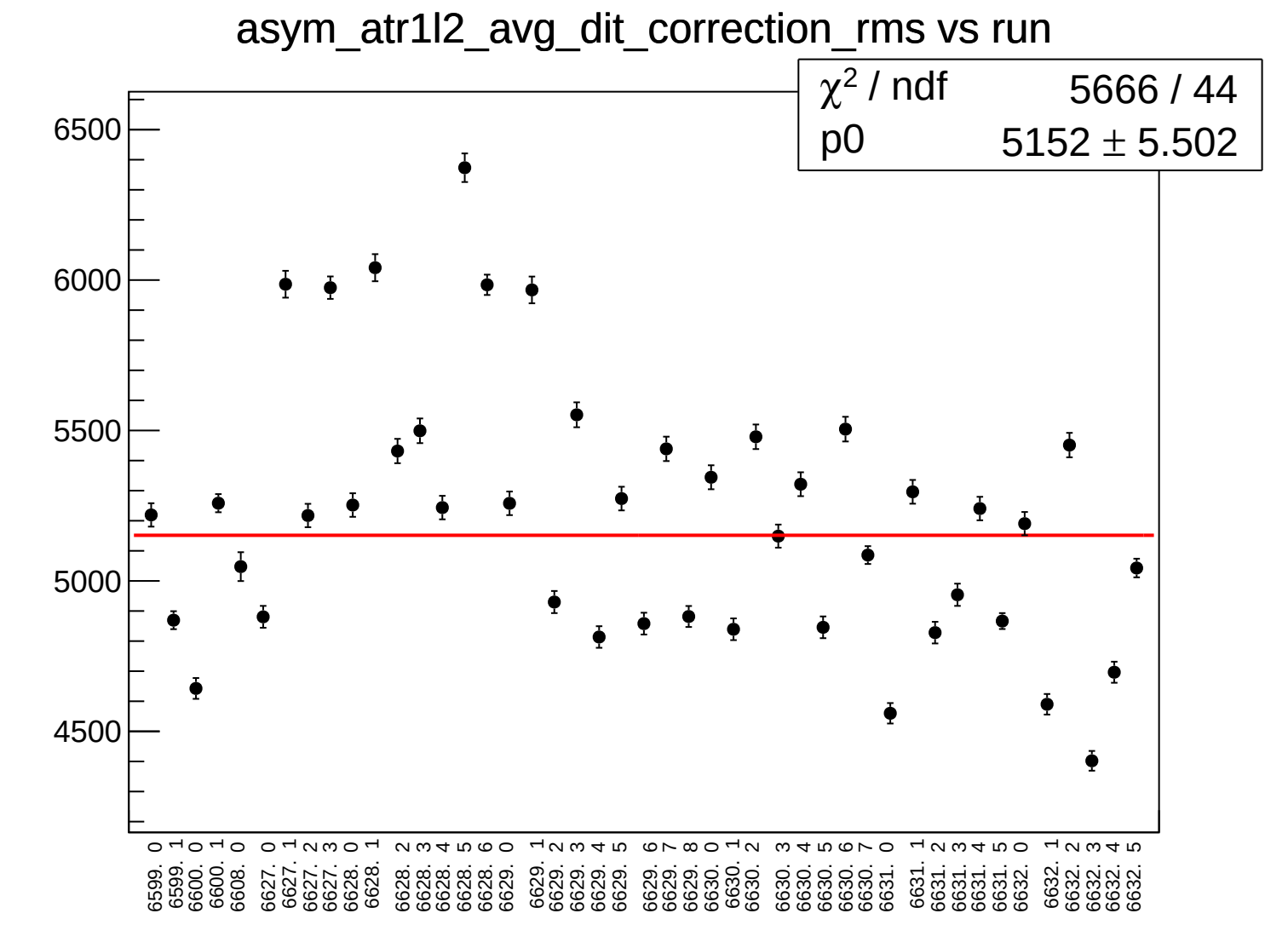
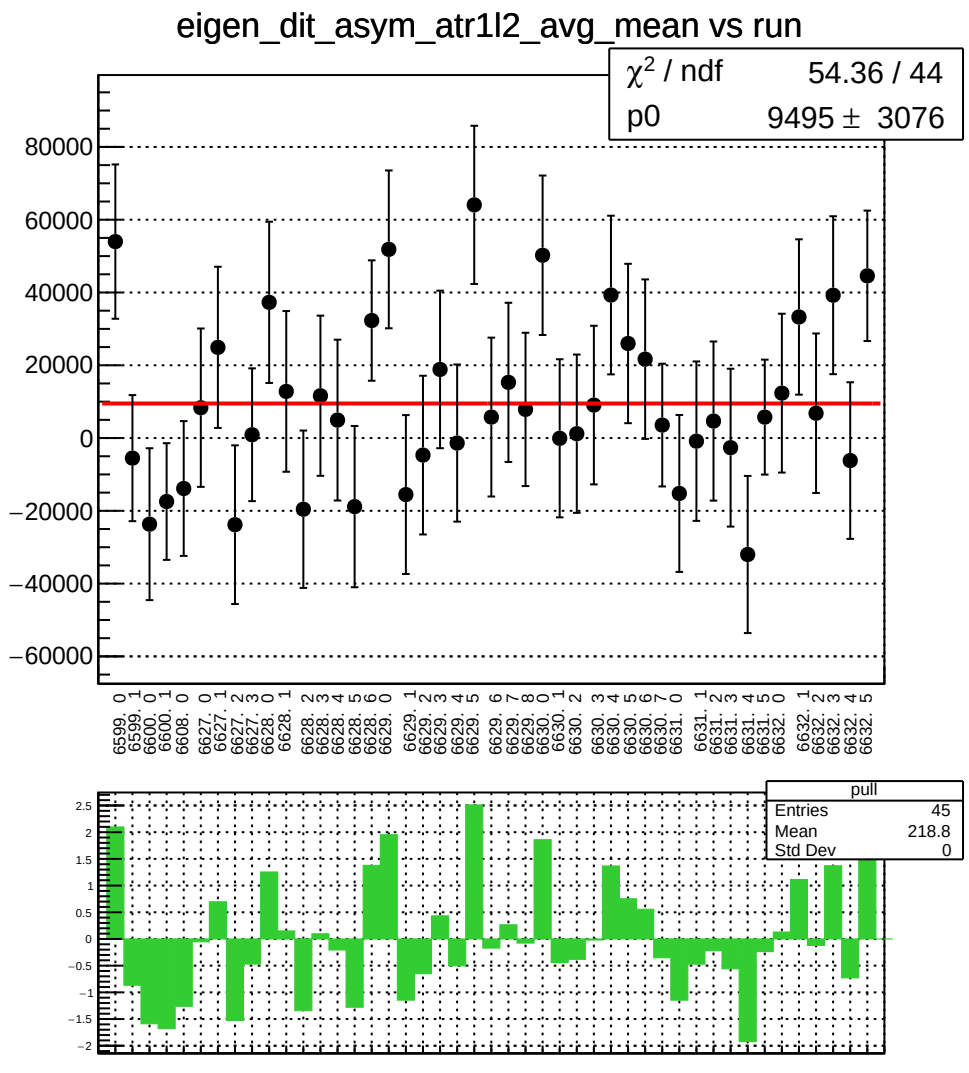
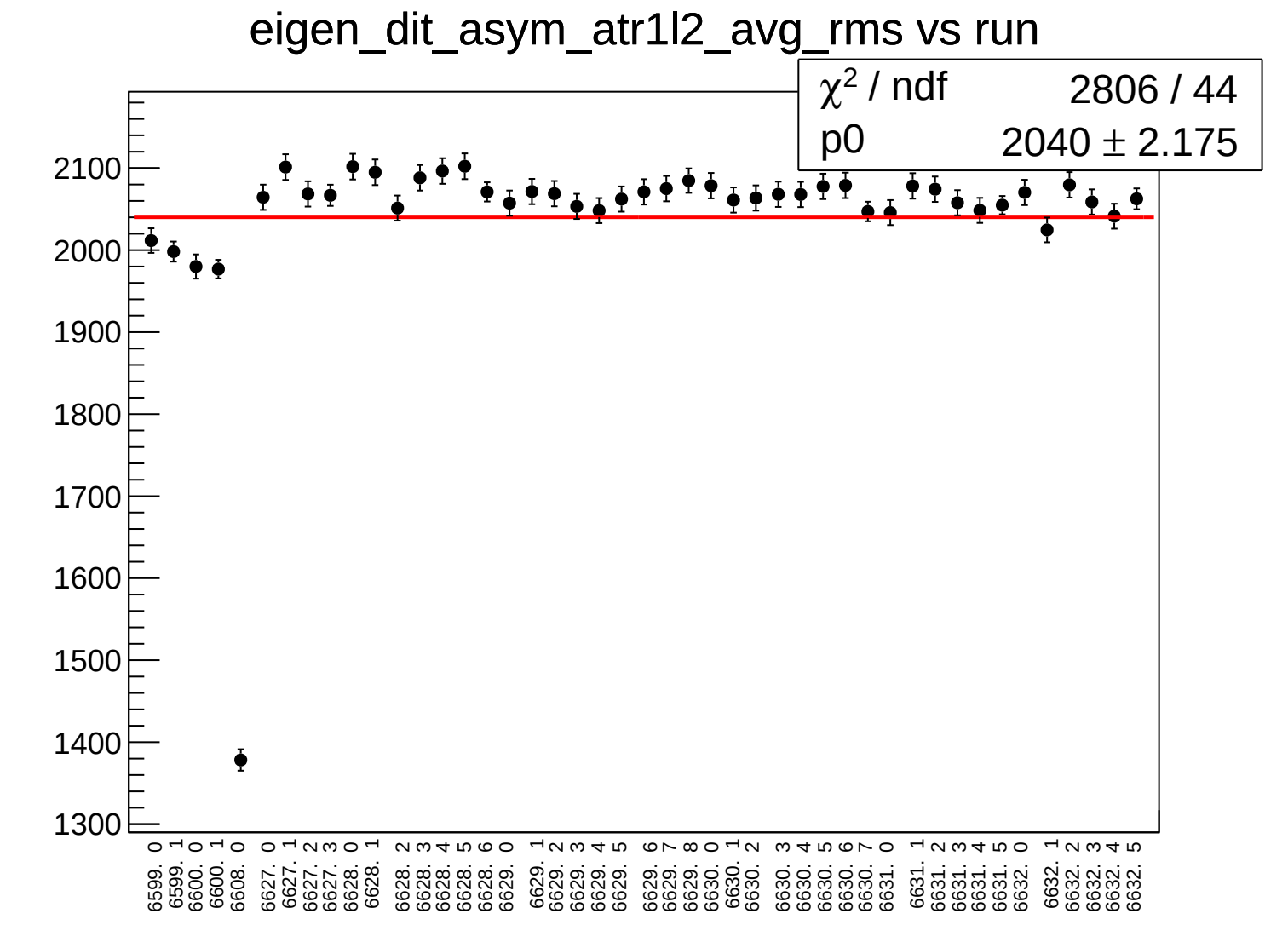
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

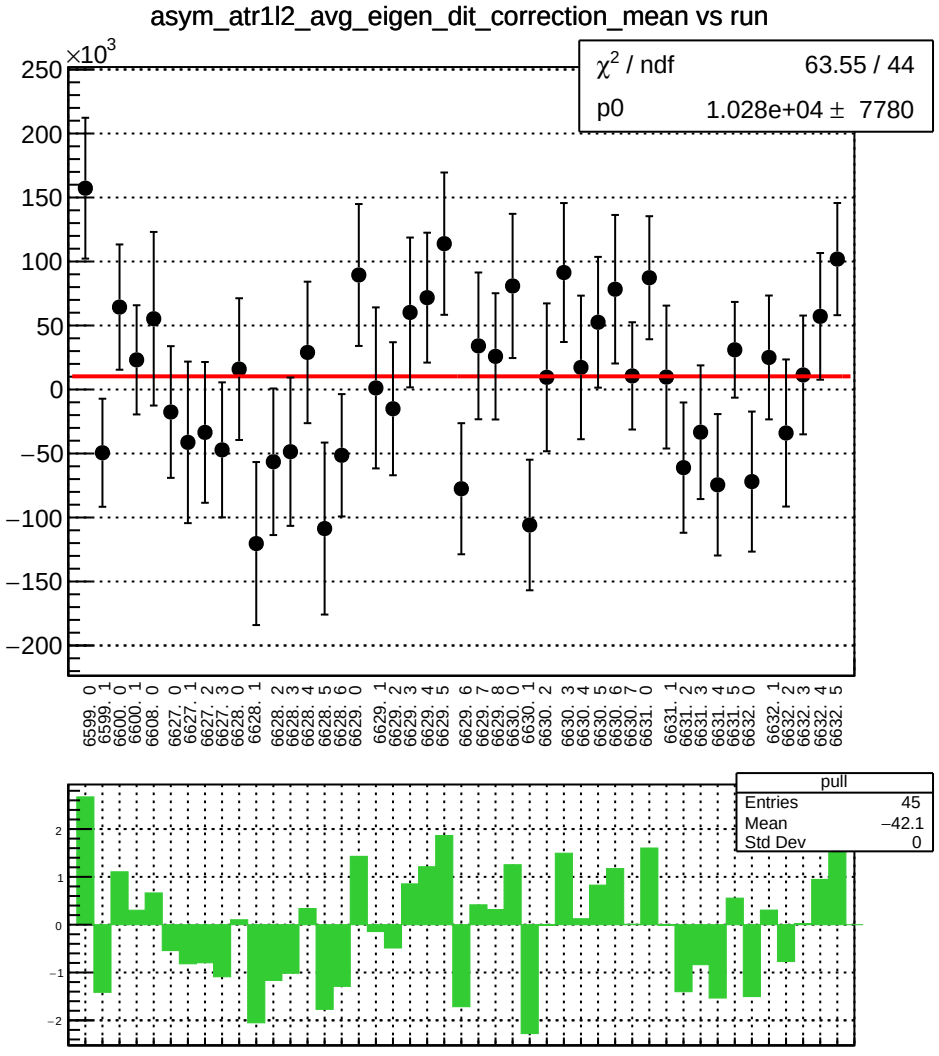

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 63.55 / 44
p0 1.028e+04 ± 7780
pull
Entries 45
Mean −42.1
Std Dev 0

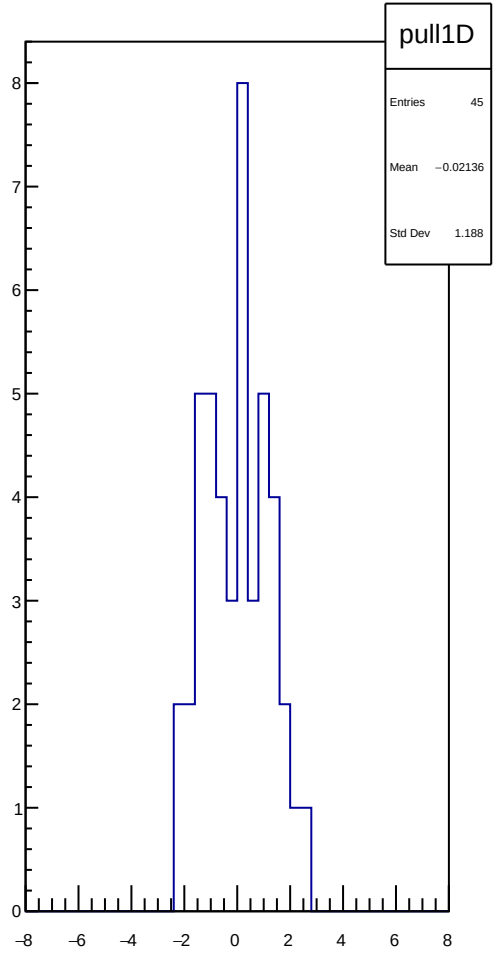

pull1D
Entries 45
Mean −0.02136
Std Dev 1.188

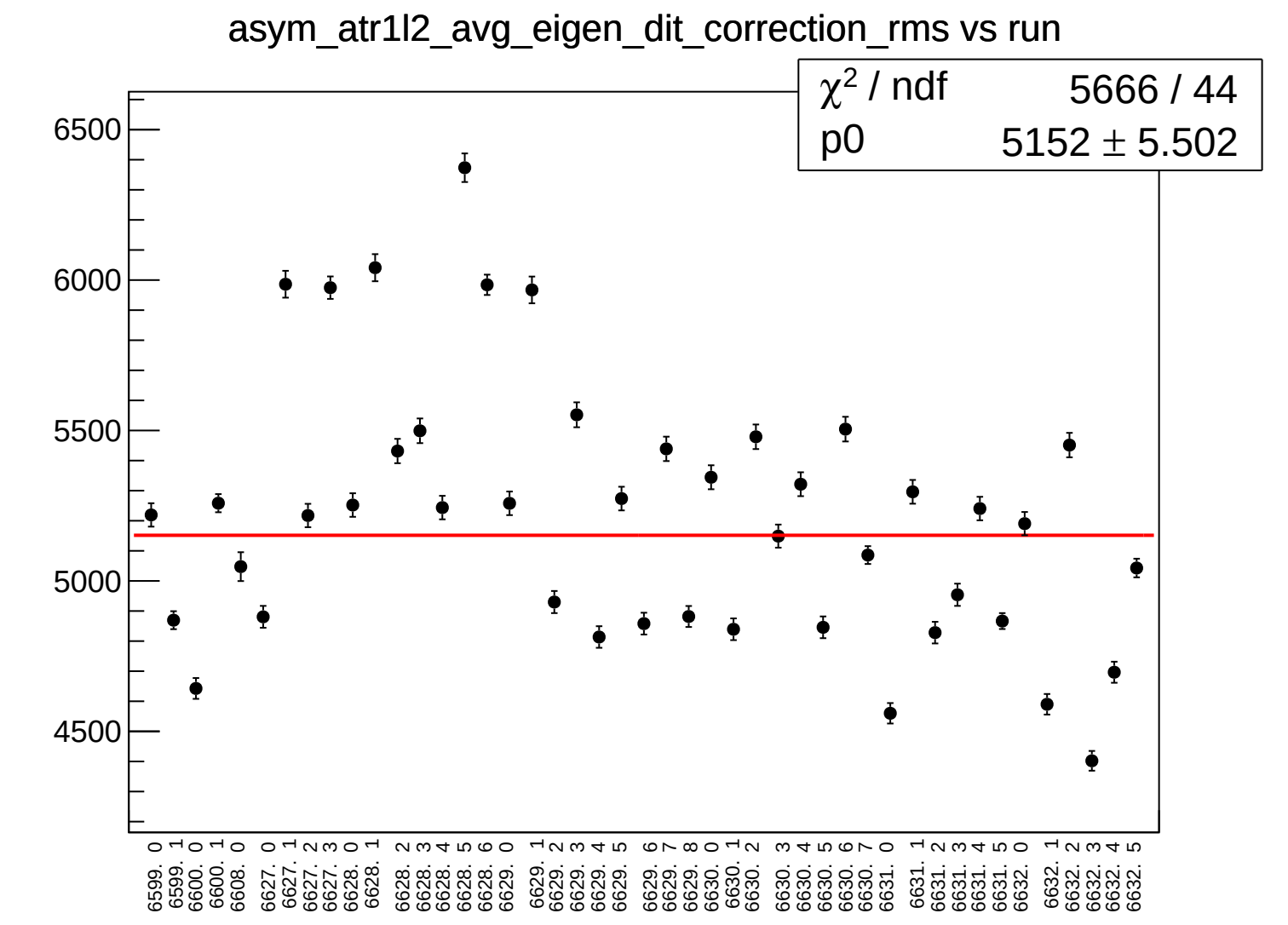

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 5666 / 44
p0 5152 ± 5.502
6500
6000
5500
5000
4500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 54.36 / 44
p0 9495 ± 3076
80000
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 218.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01156
Std Dev 1.099
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 2806 / 44
p0 2040 ± 2.175
2100
2000
1900
1800
1700
1600
1500
1400
1300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 63.55 / 44
p0 1.028e+04 ± 7780
pull
Entries 45
Mean −42.1
Std Dev 0


pull1D
Entries 45
Mean −0.02136
Std Dev 1.188


asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 5666 / 44
p0 5152 ± 5.502
6500
6000
5500
5000
4500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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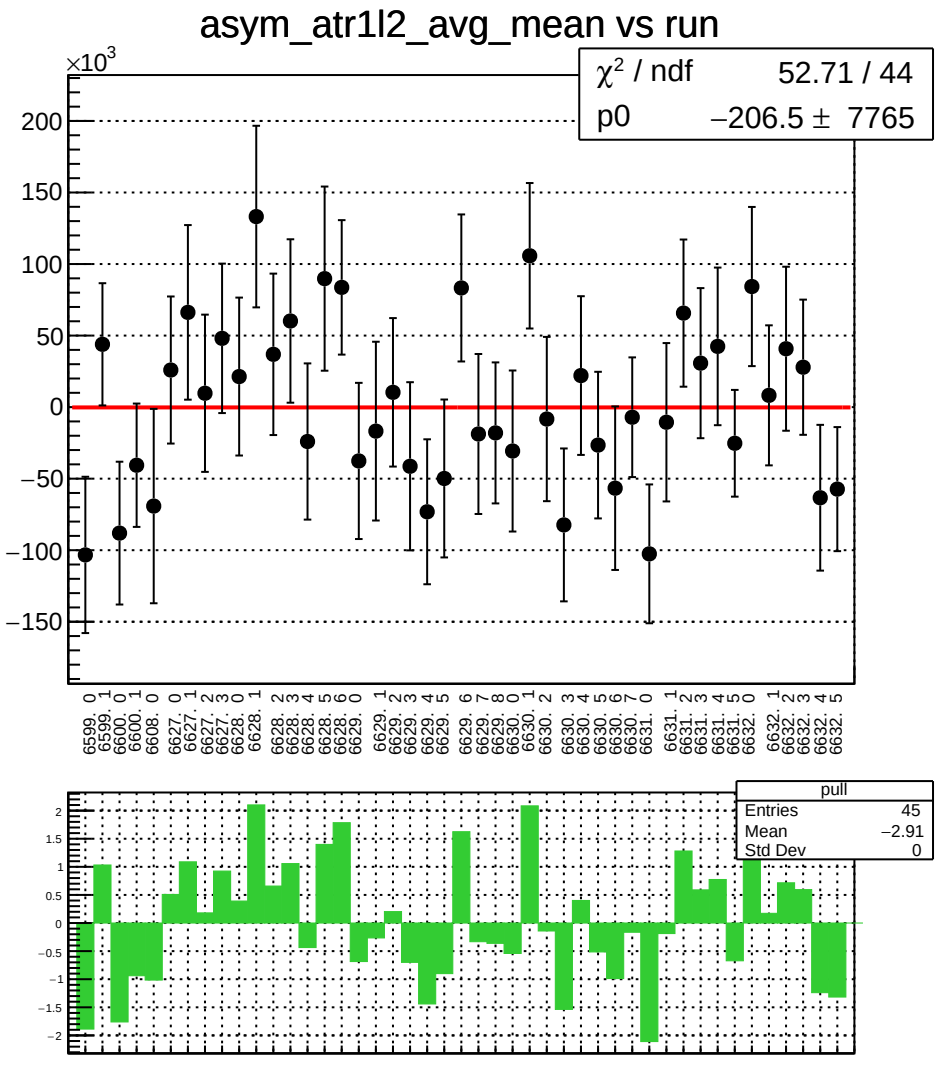
6632. 2
6632. 3
6632. 4
6632. 5


asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 52.71 / 44
p0 −206.5 ± 7765
200
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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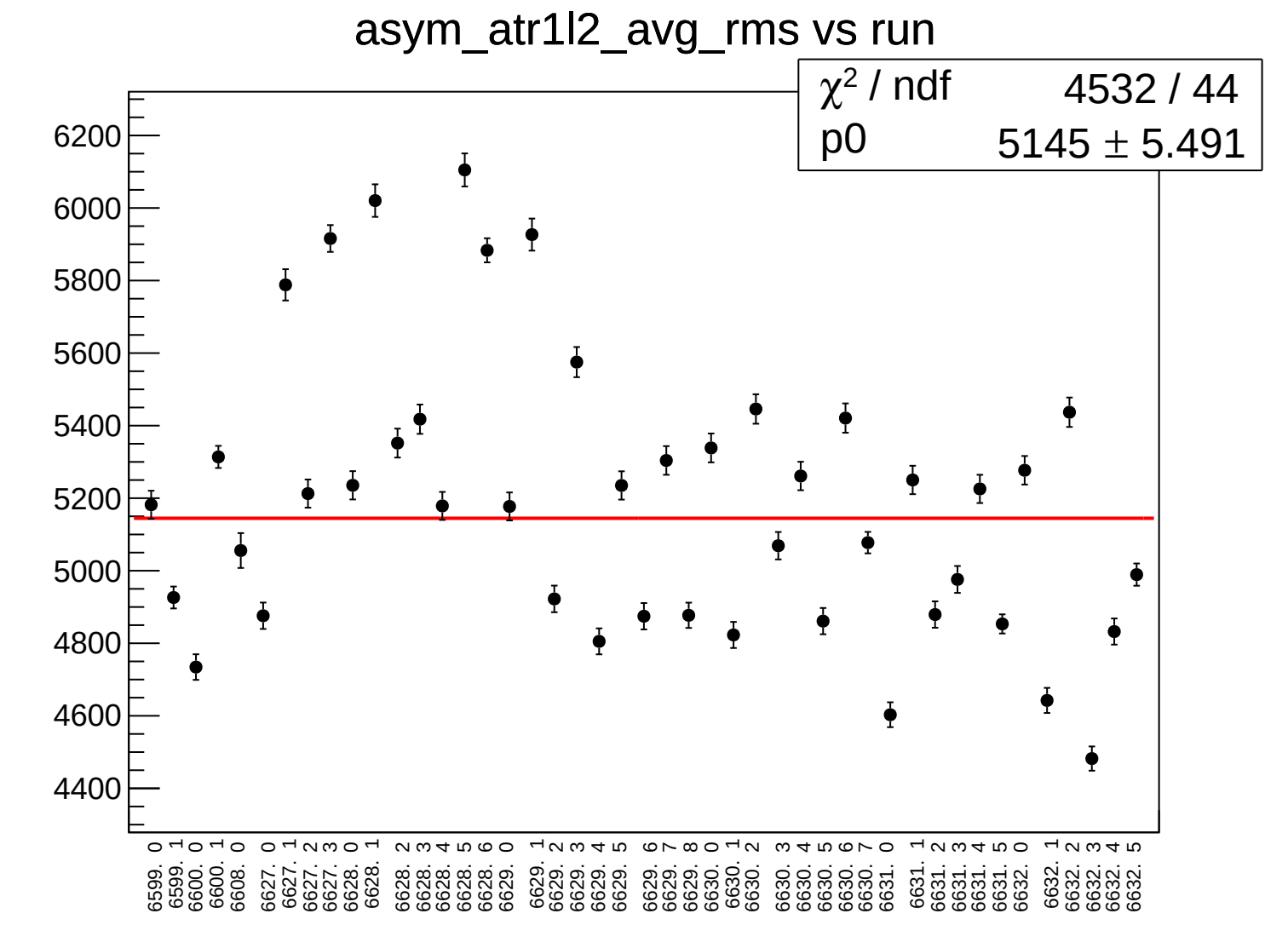
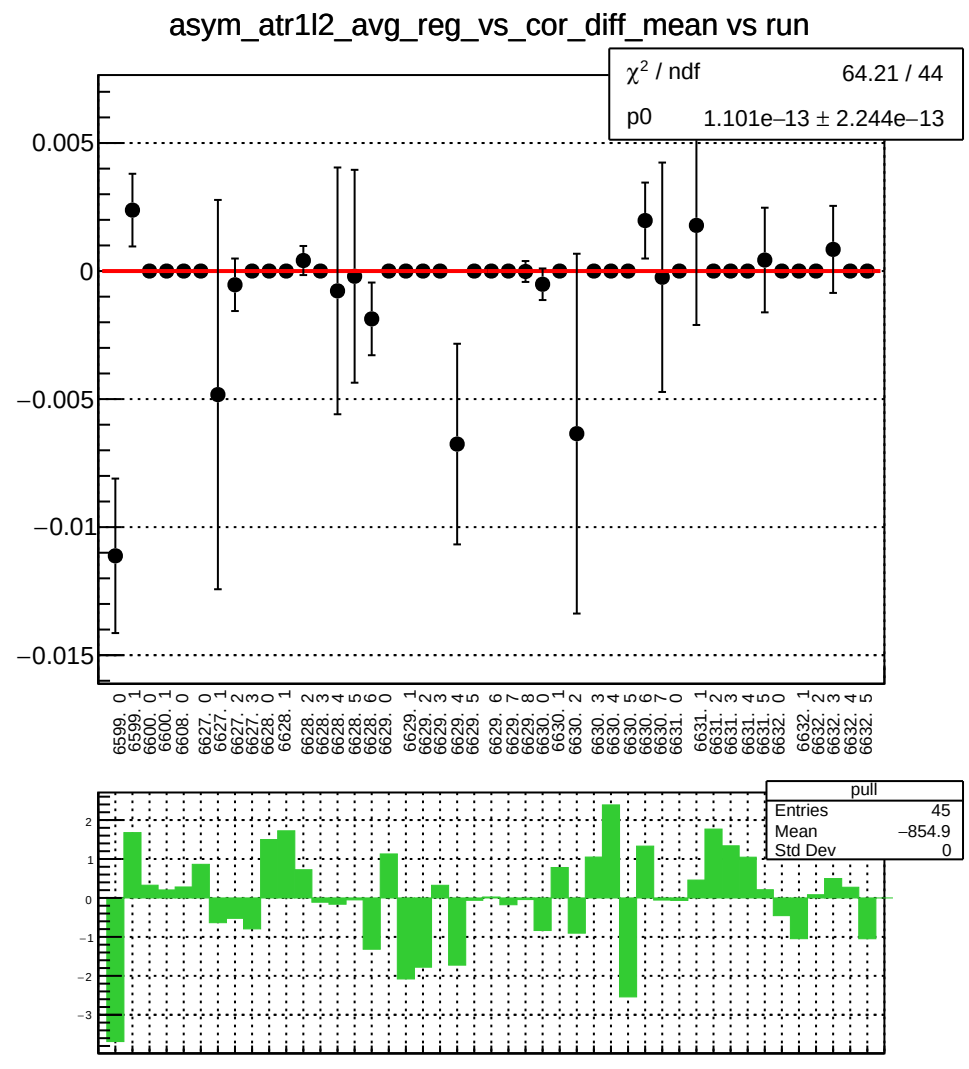
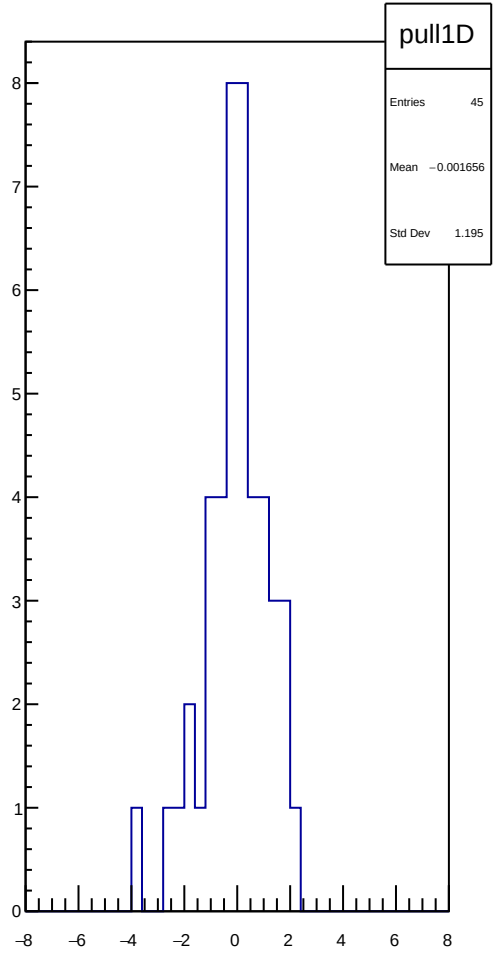
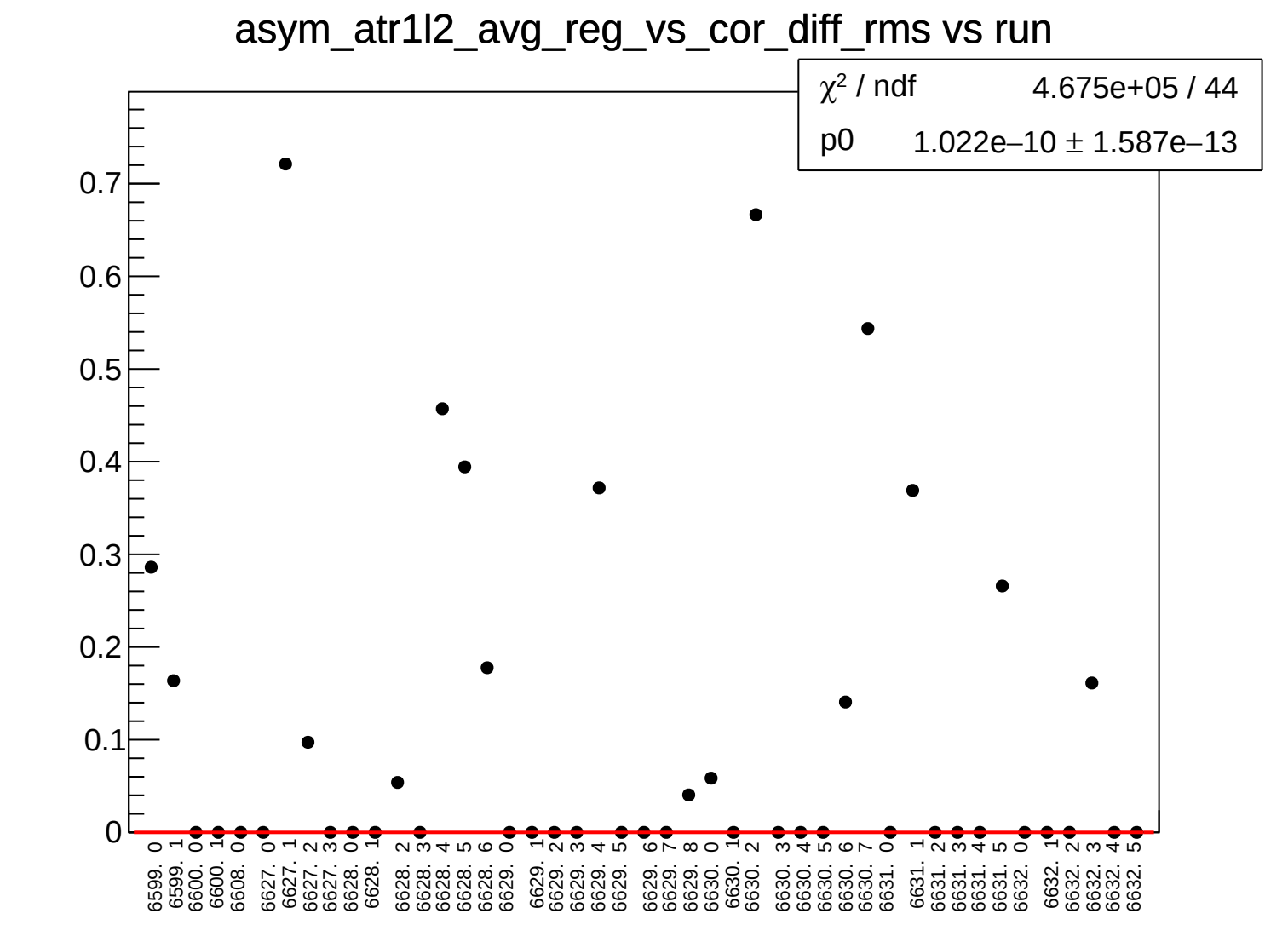
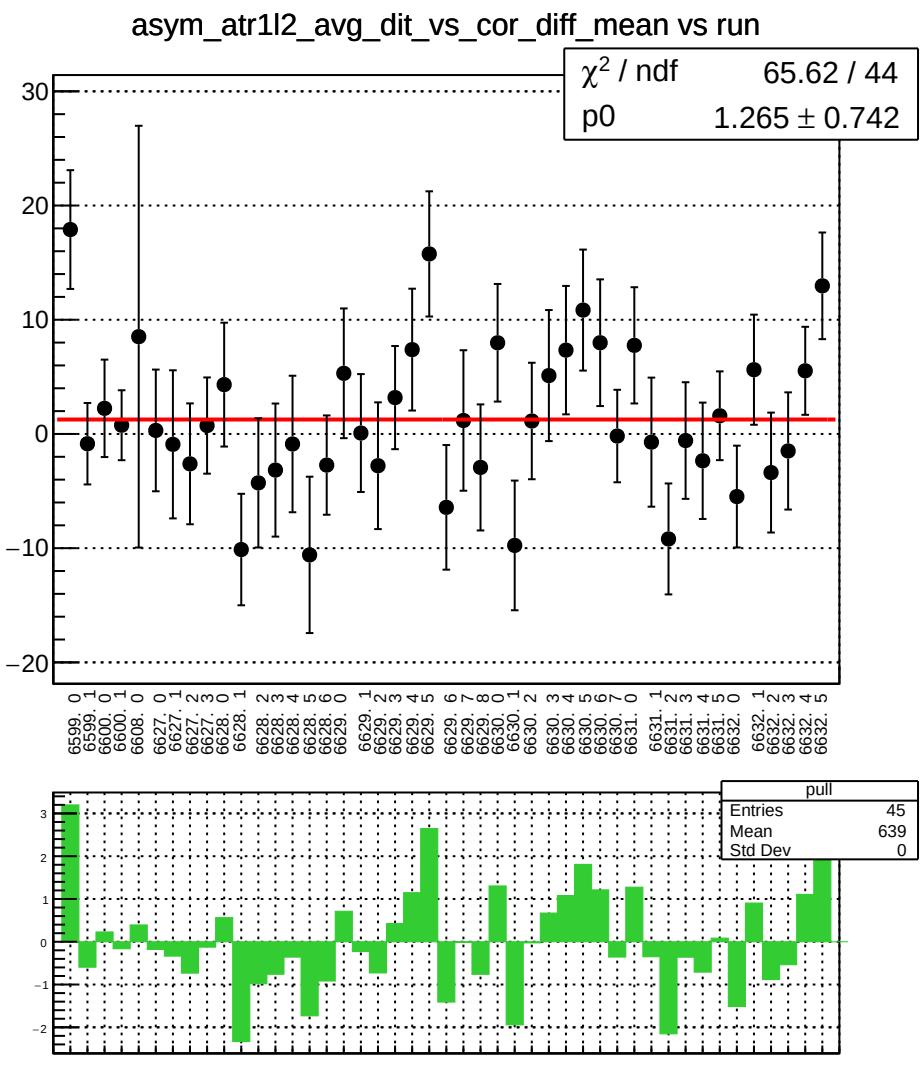
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −2.91
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.02126
Std Dev 1.082
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

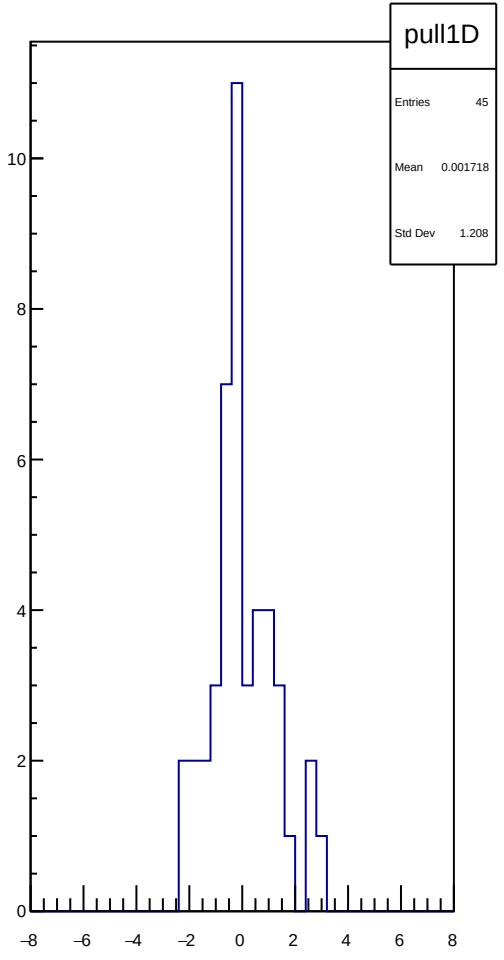

asym_atr1l2_avg_rms vs run
χ² / ndf 4532 / 44
p0 5145 ± 5.491
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

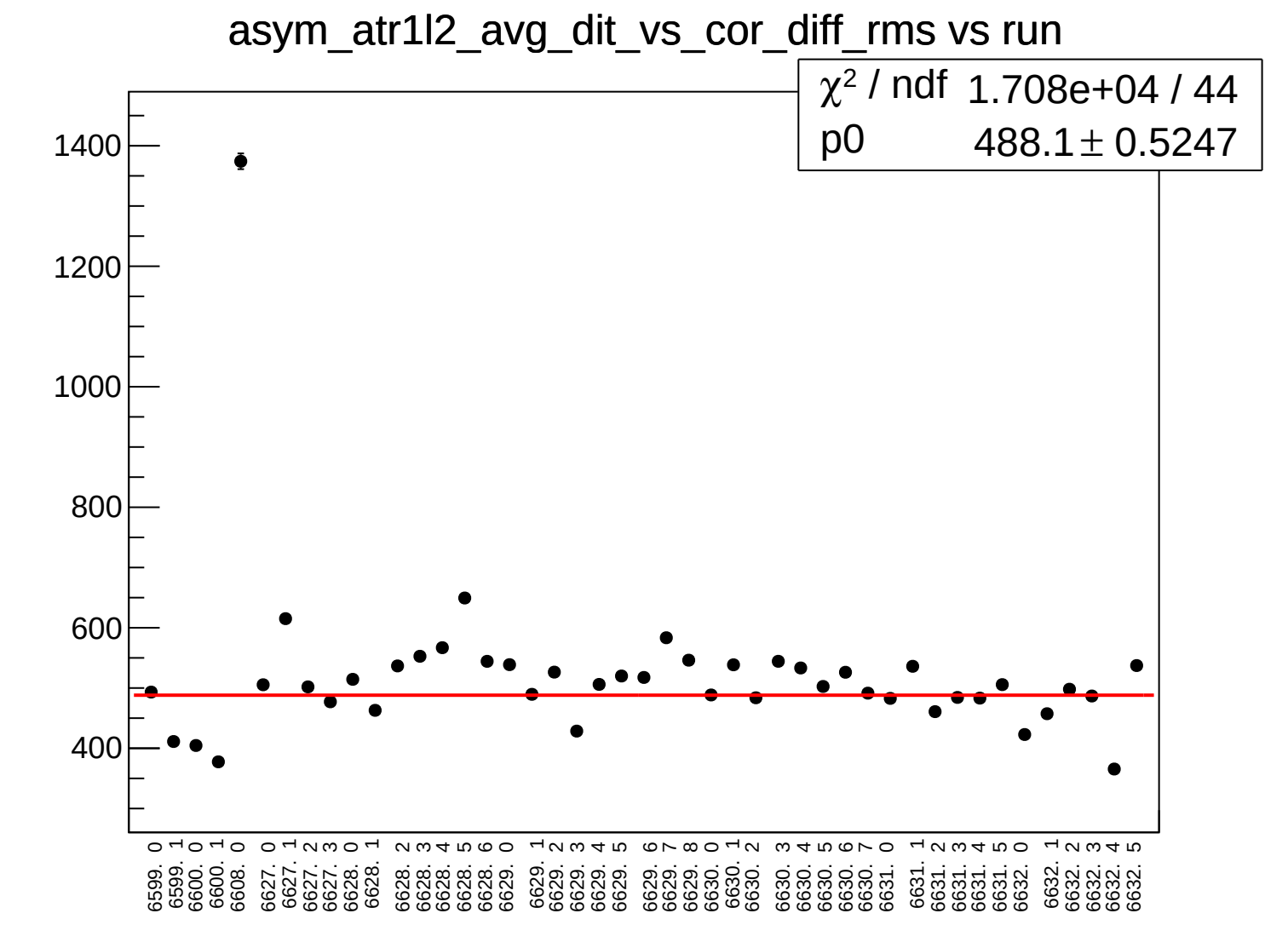

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 64.21 / 44
p0 1.101e−13 ± 2.244e−13
0.005
0
−0.005
−0.01
−0.015
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −854.9
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.001656
Std Dev 1.195
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

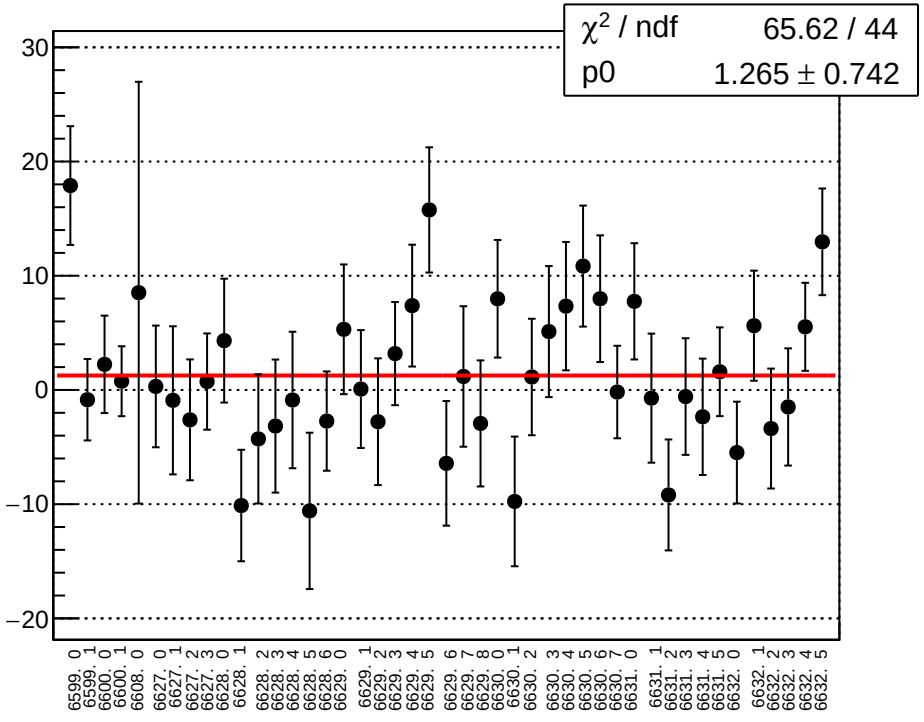

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.675e+05 / 44
p0 1.022e−10 ± 1.587e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

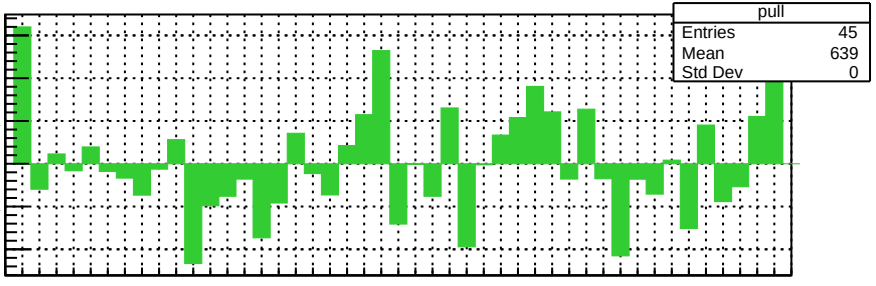

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 65.62 / 44
p0 1.265 ± 0.742
pull
Entries 45
Mean 639
Std Dev 0

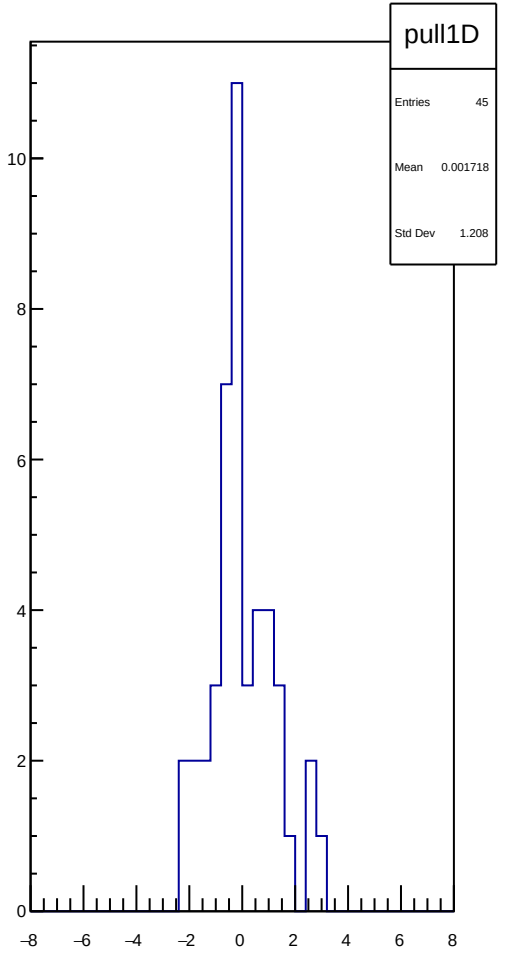

pull1D
Entries 45
Mean 0.001718
Std Dev 1.208

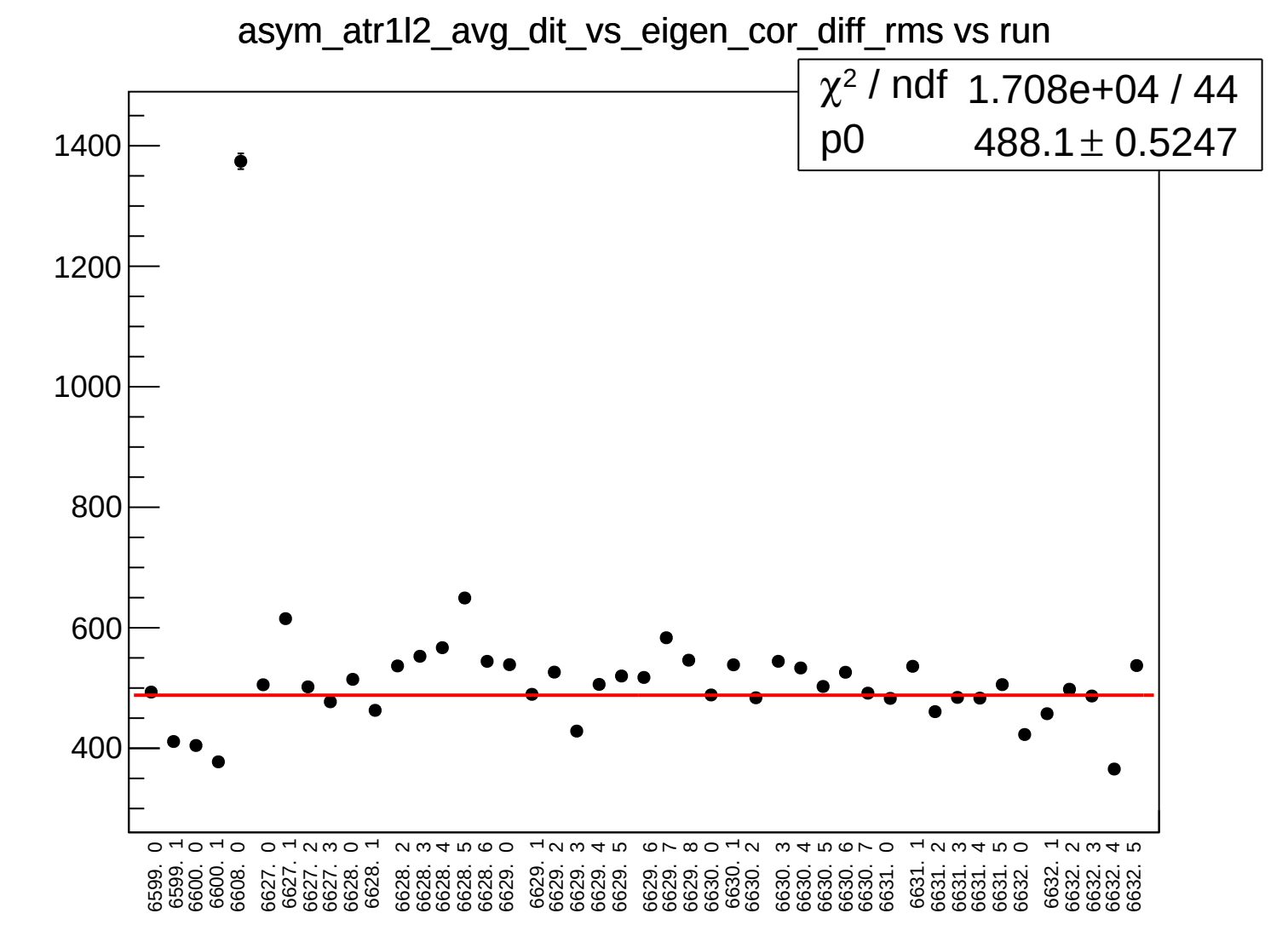

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.708e+04 / 44
p0 488.1 ± 0.5247
1400
1200
1000
800
600
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

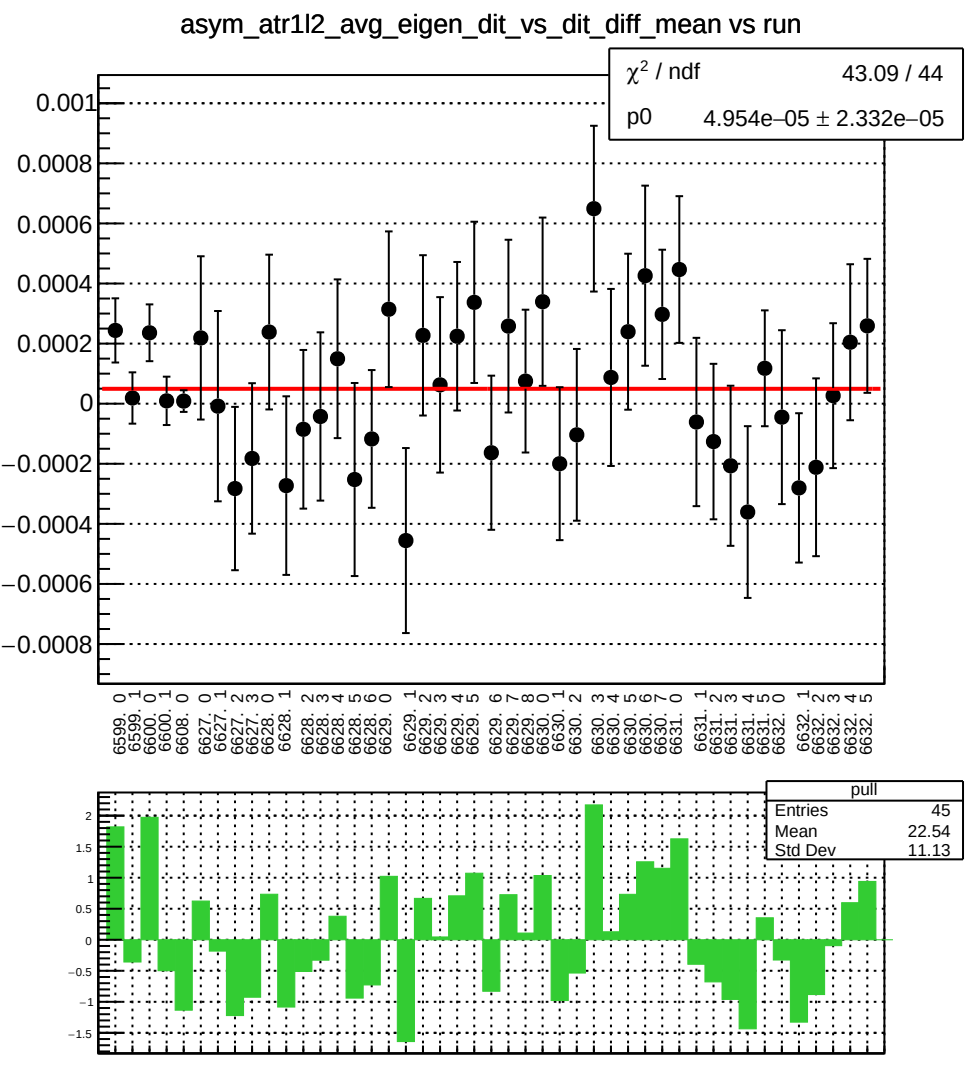
asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run

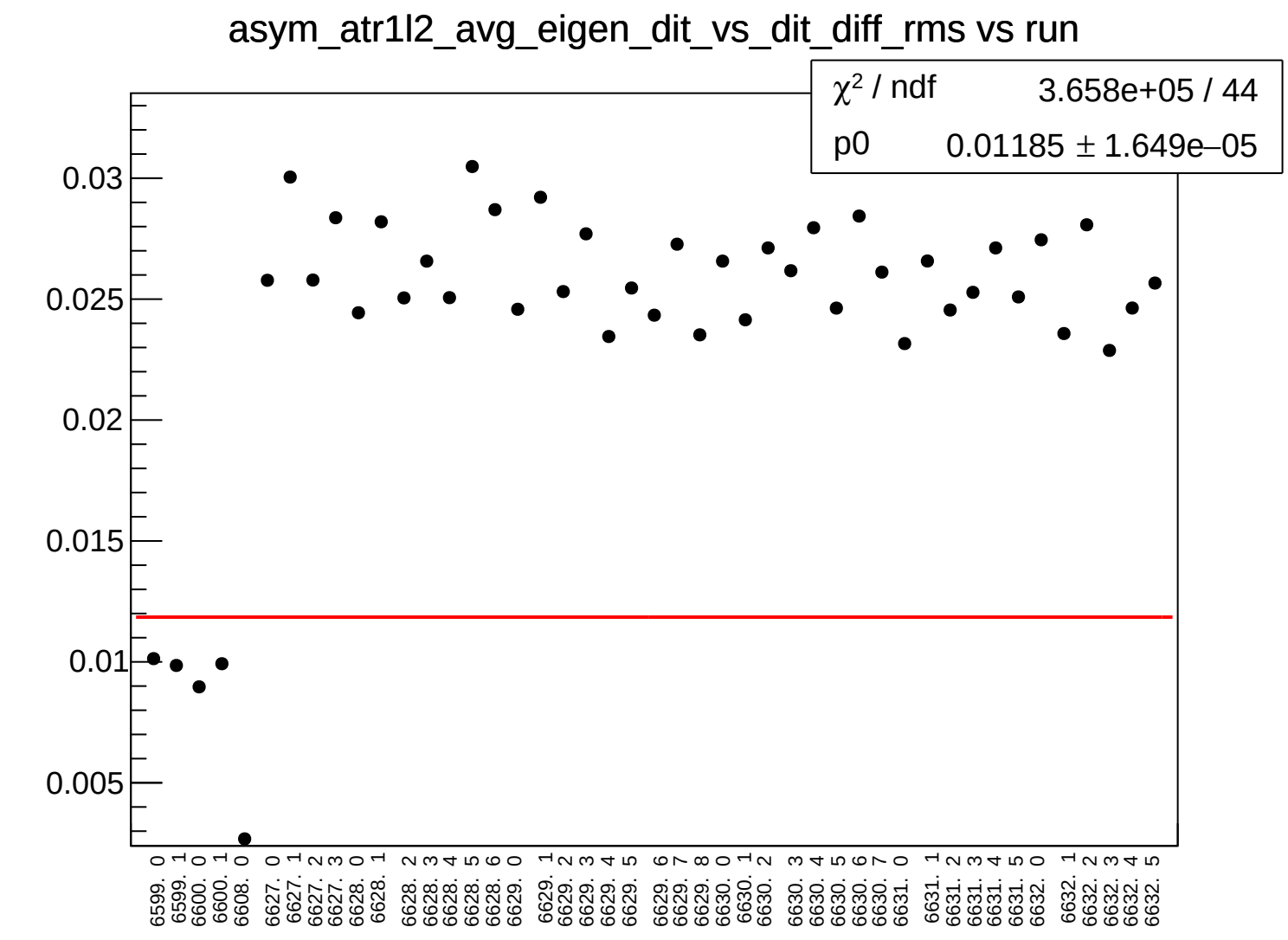


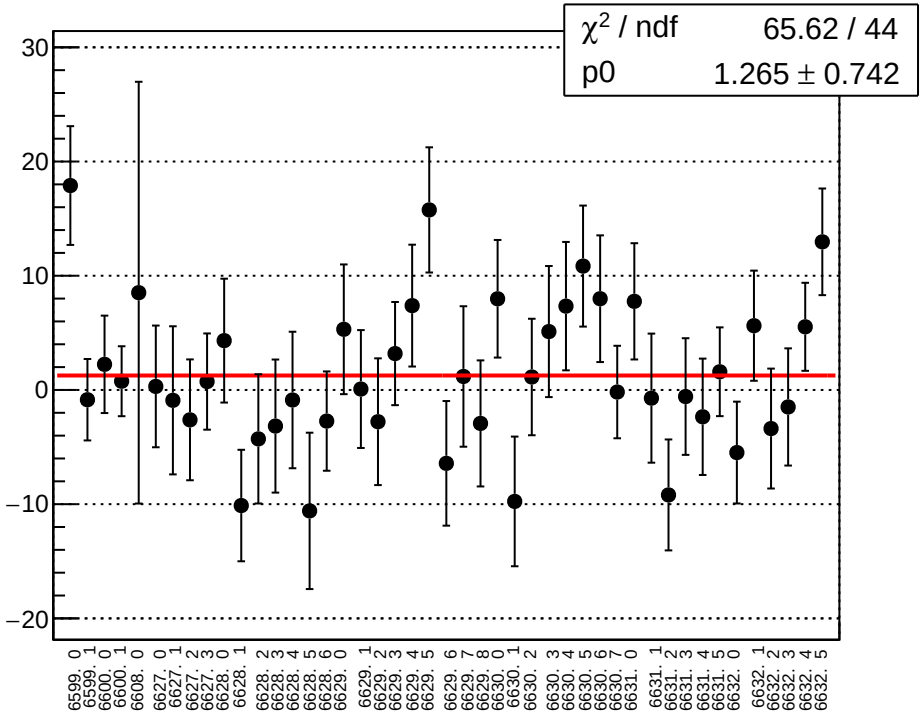



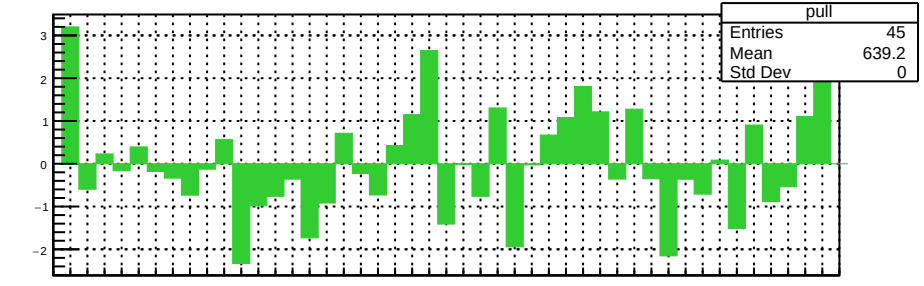

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.708e+04 / 44
p0 488.1 ± 0.5247
1400
1200
1000
800
600
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

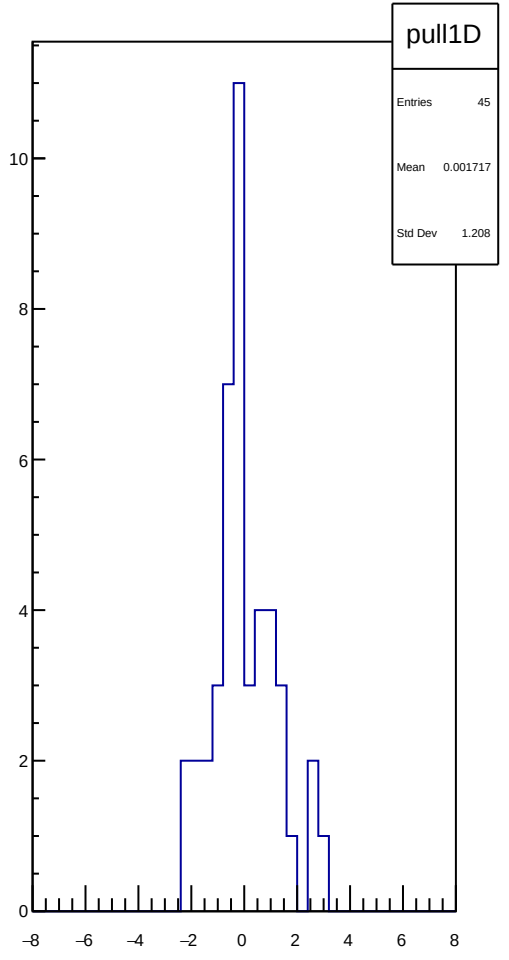

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 43.09 / 44
p0 4.954e−05 ± 2.332e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 22.54
Std Dev 11.13
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.04156
Std Dev 0.9777
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

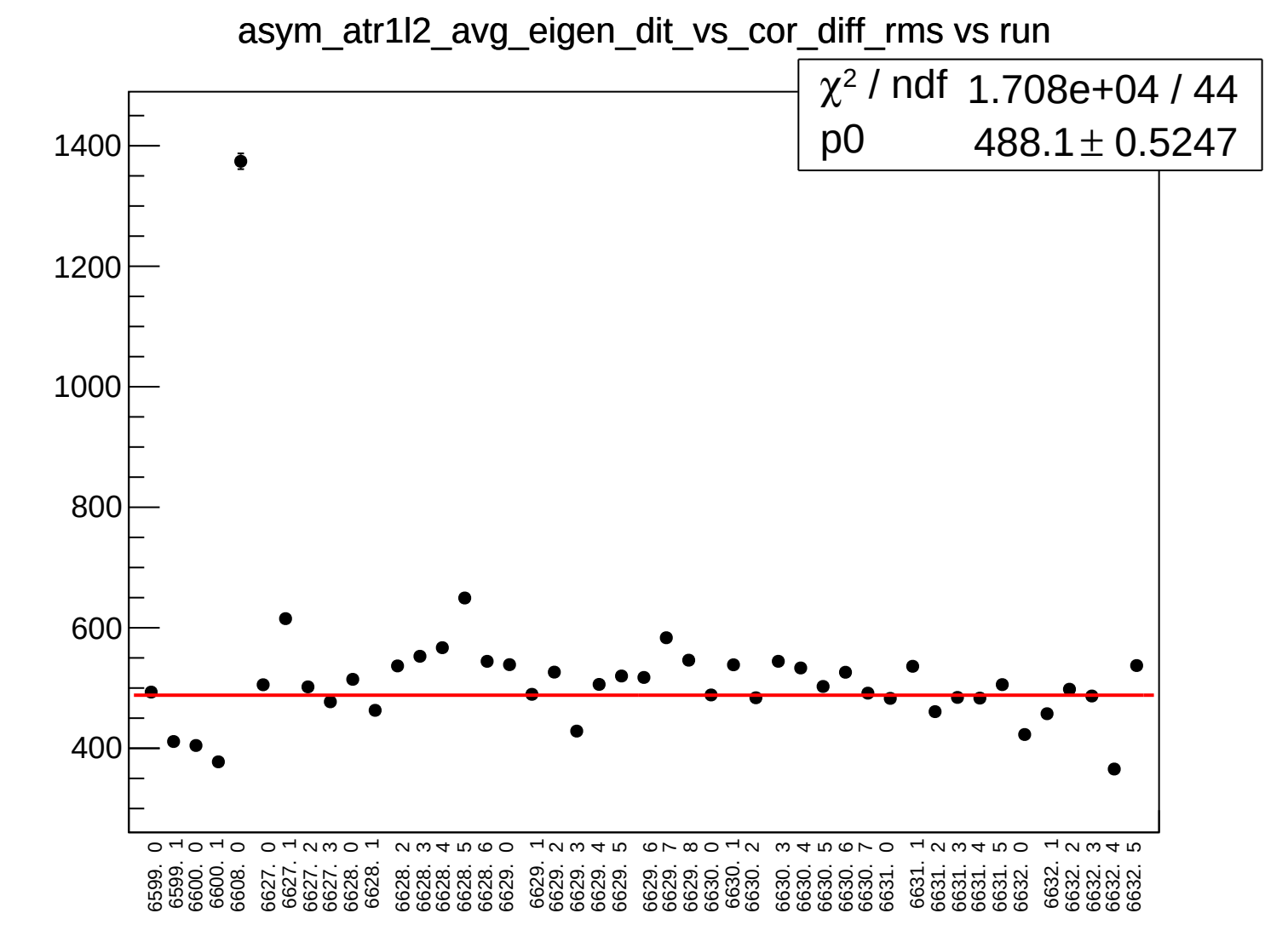

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.658e+05 / 44
p0 0.01185 ± 1.649e−05
0.03
0.025
0.02
0.015
0.01
0.005
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run




asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.708e+04 / 44
p0 488.1 ± 0.5247
1400
1200
1000
800
600
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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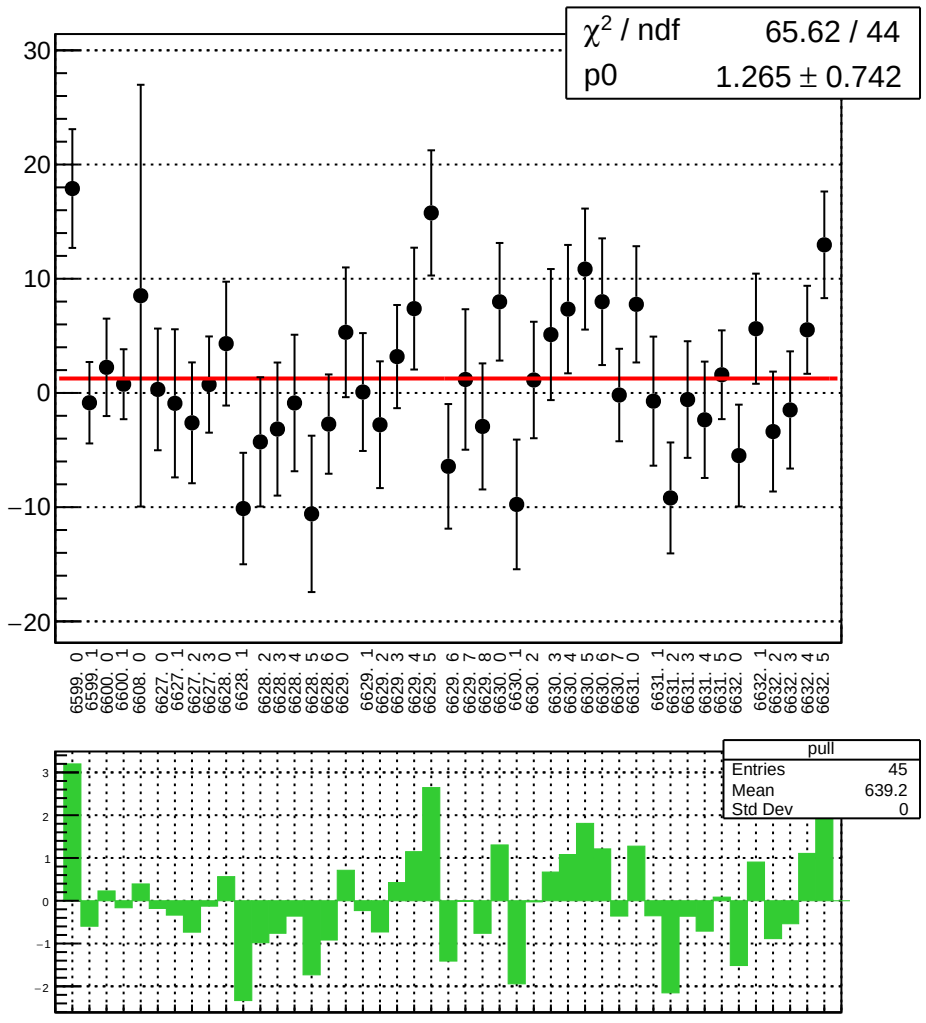
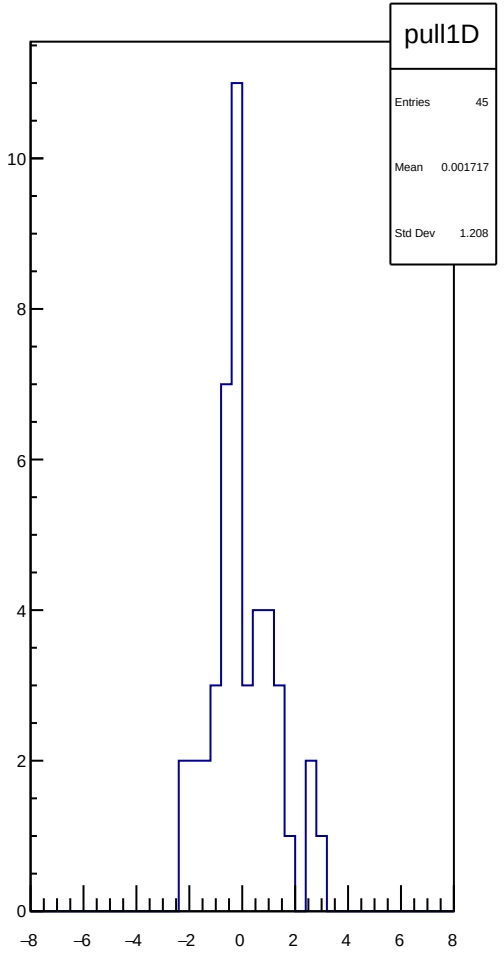
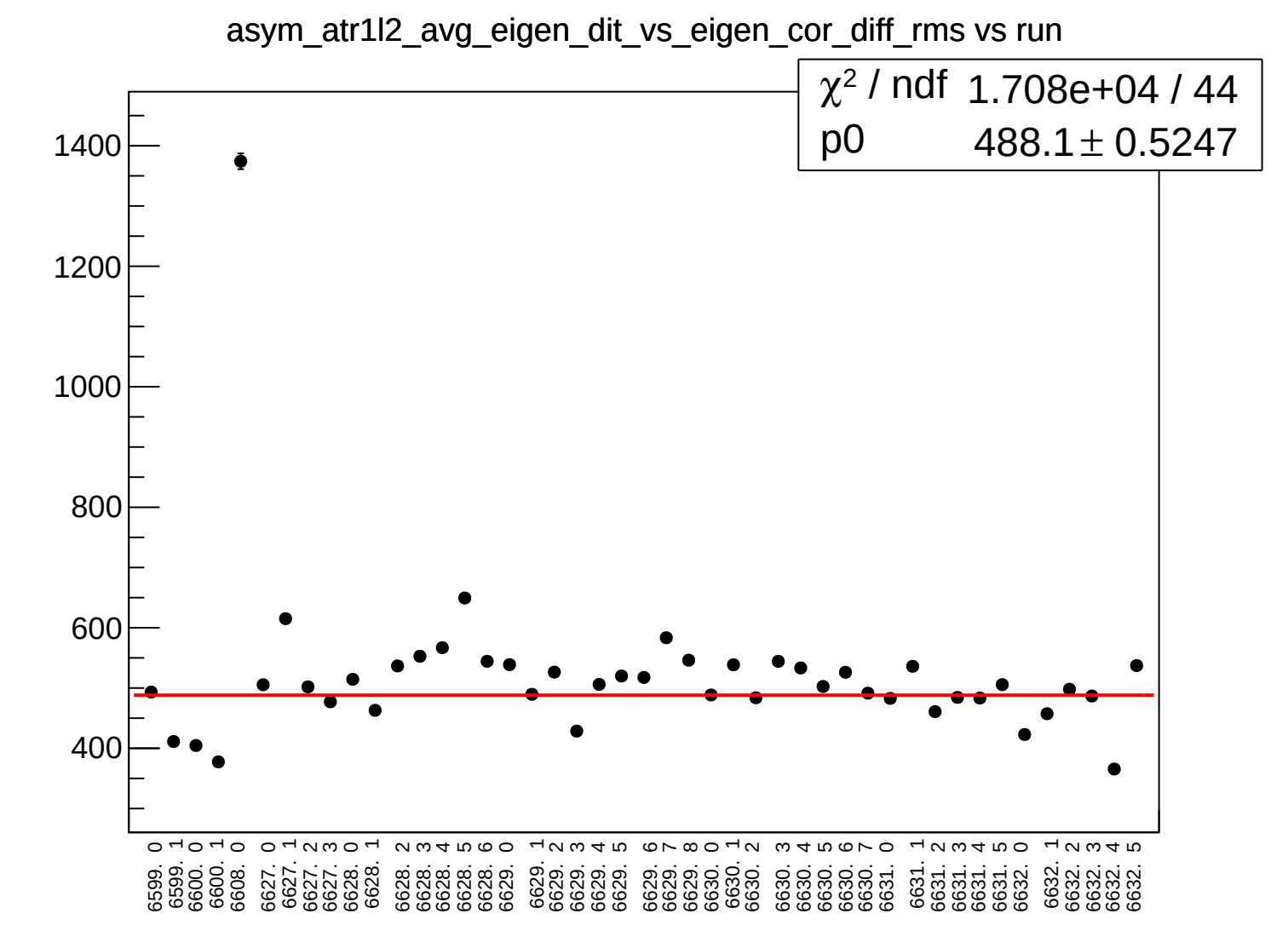
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.62 / 44
p0 1.265 ± 0.742
pull
Entries 45
Mean 639.2
Std Dev 0


pull1D
Entries 45
Mean 0.001717
Std Dev 1.208


asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.708e+04 / 44
p0 488.1 ± 0.5247
1400
1200
1000
800
600
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 4
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6629. 7
6629. 8
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6630. 1
6630. 2
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 5
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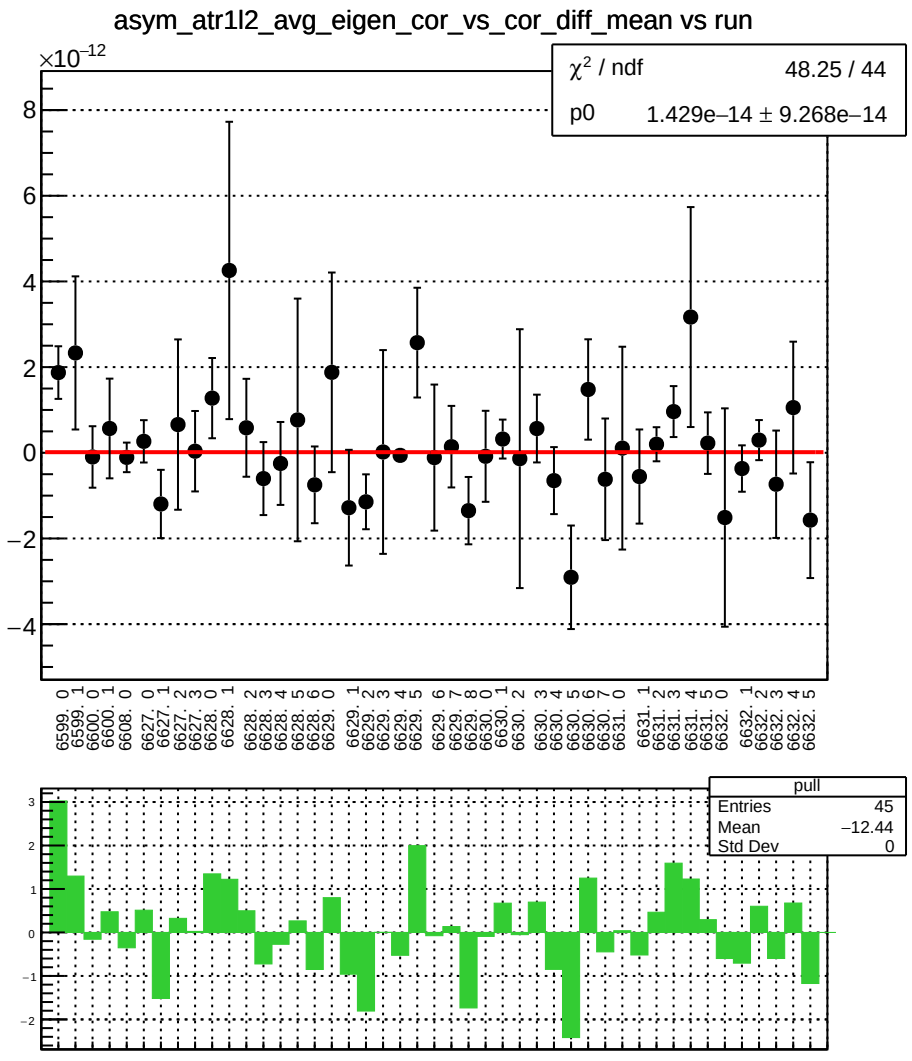
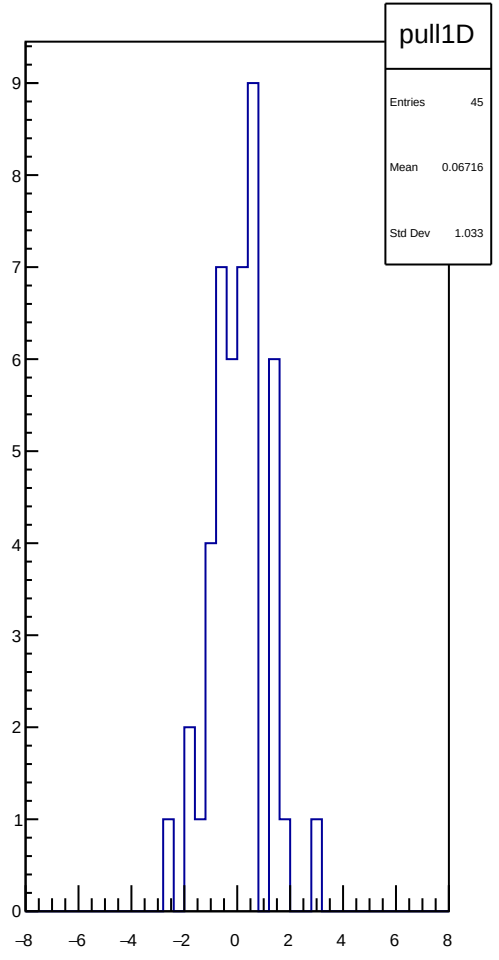
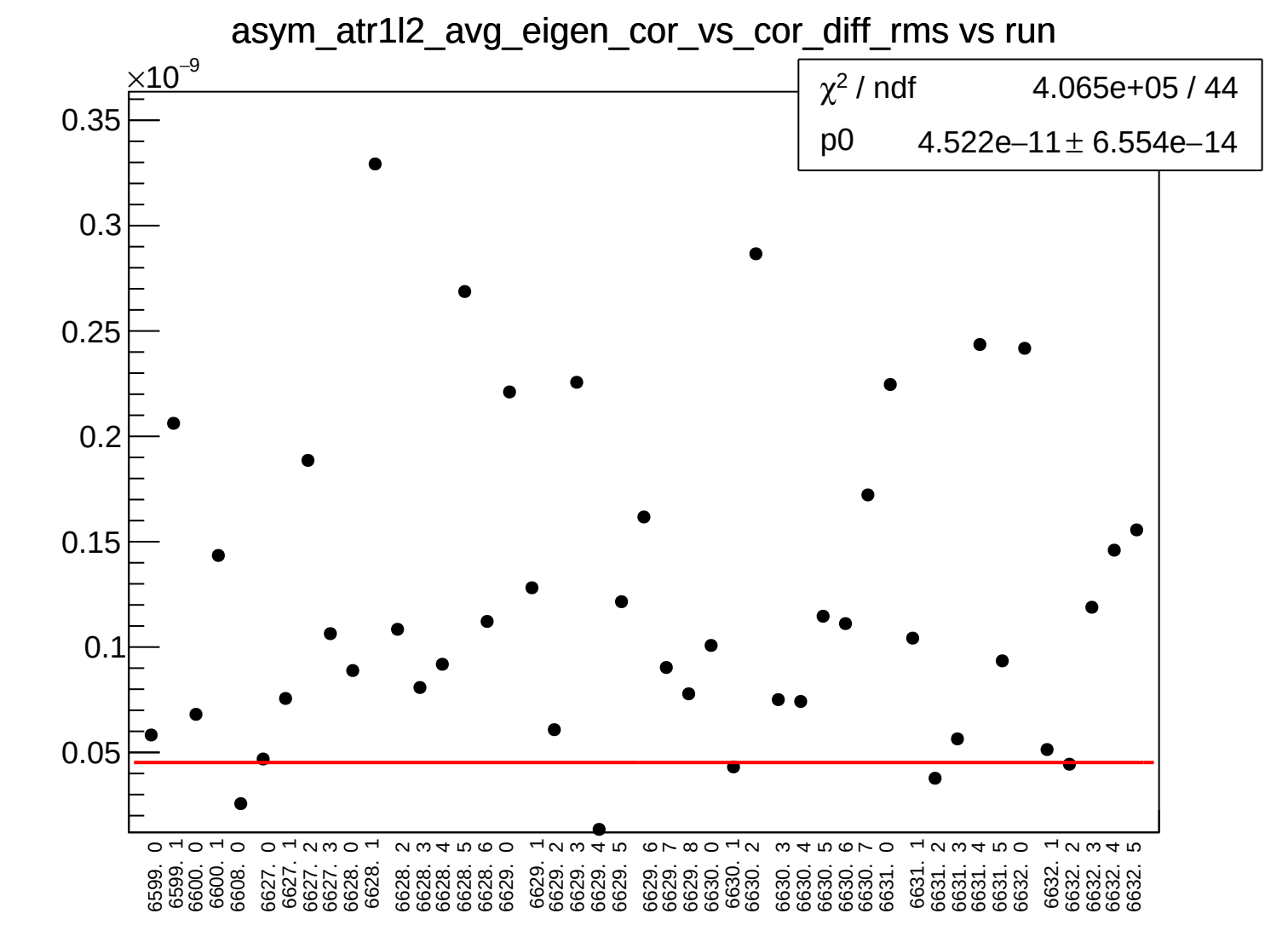
6632. 2
6632. 3
6632. 4
6632. 5


asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 48.25 / 44
p0 1.429e−14 ± 9.268e−14
pull
Entries 45
Mean −12.44
Std Dev 0


pull1D
Entries 45
Mean 0.06716
Std Dev 1.033


asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.065e+05 / 44
p0 4.522e−11 ± 6.554e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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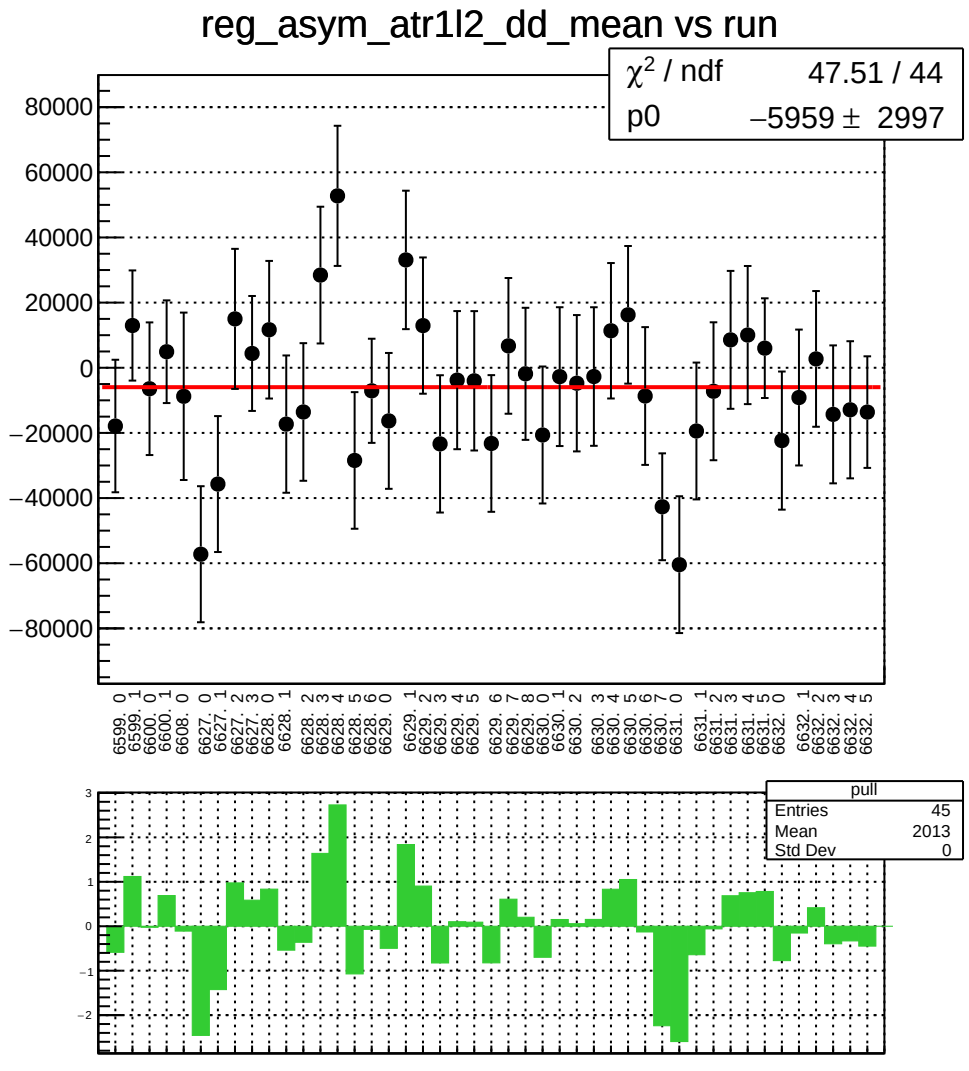
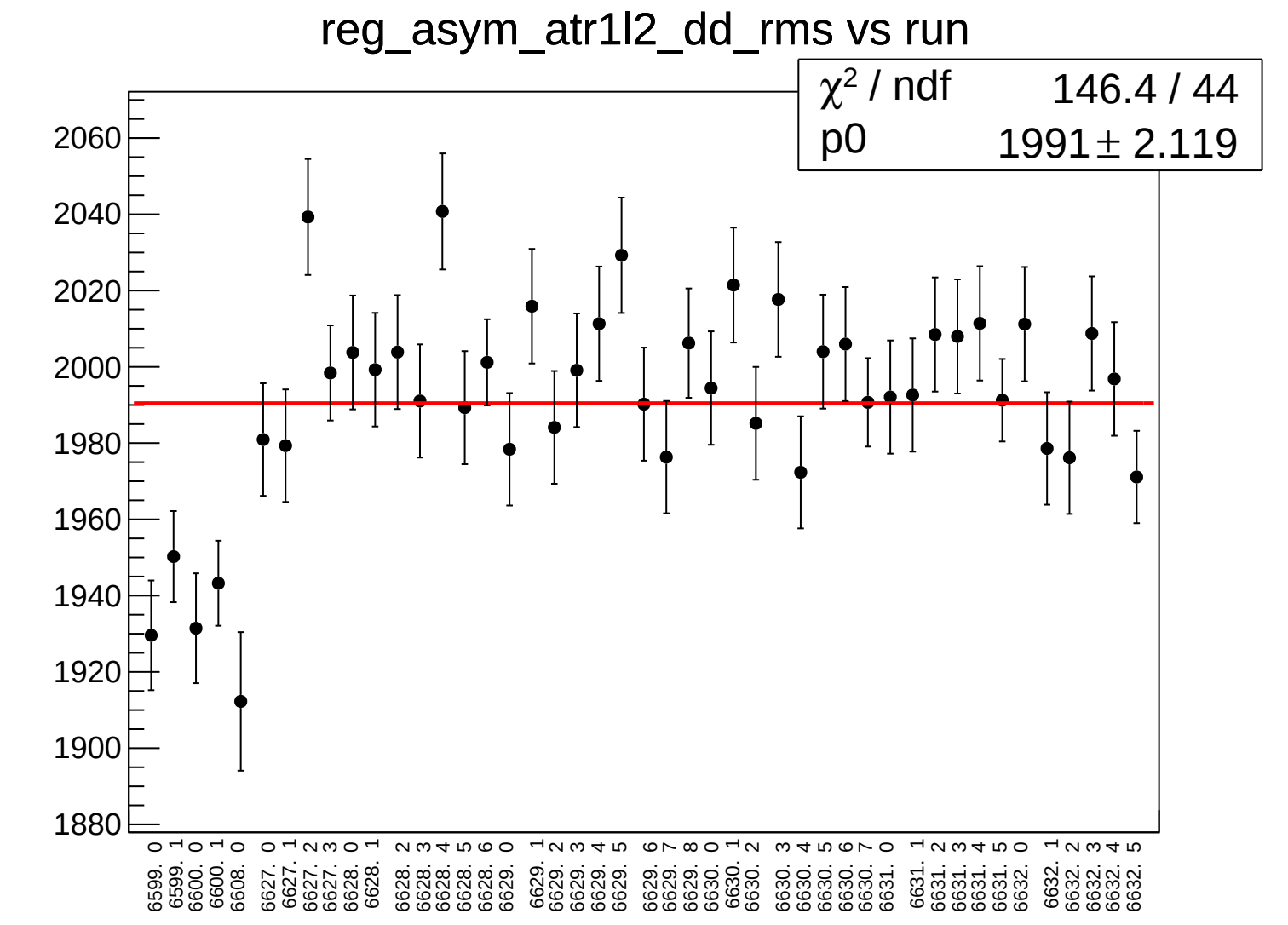
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


reg_asym_atr1l2_dd_mean vs run
χ² / ndf 47.51 / 44
p0 −5959 ± 2997
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 2013
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.0007178
Std Dev 1.028
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_dd_rms vs run
χ² / ndf 146.4 / 44
p0 1991 ± 2.119
2060
2040
2020
2000
1980
1960
1940
1920
1900
1880
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6628. 5
6628. 6
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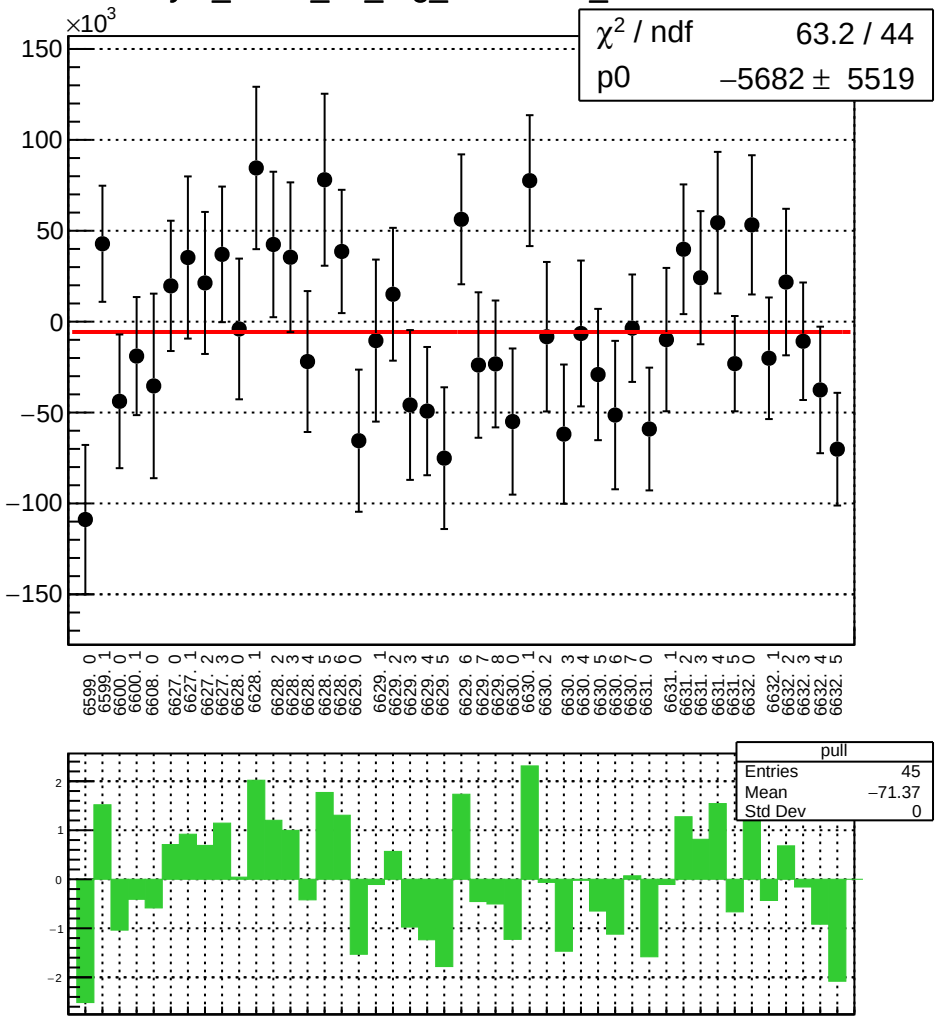
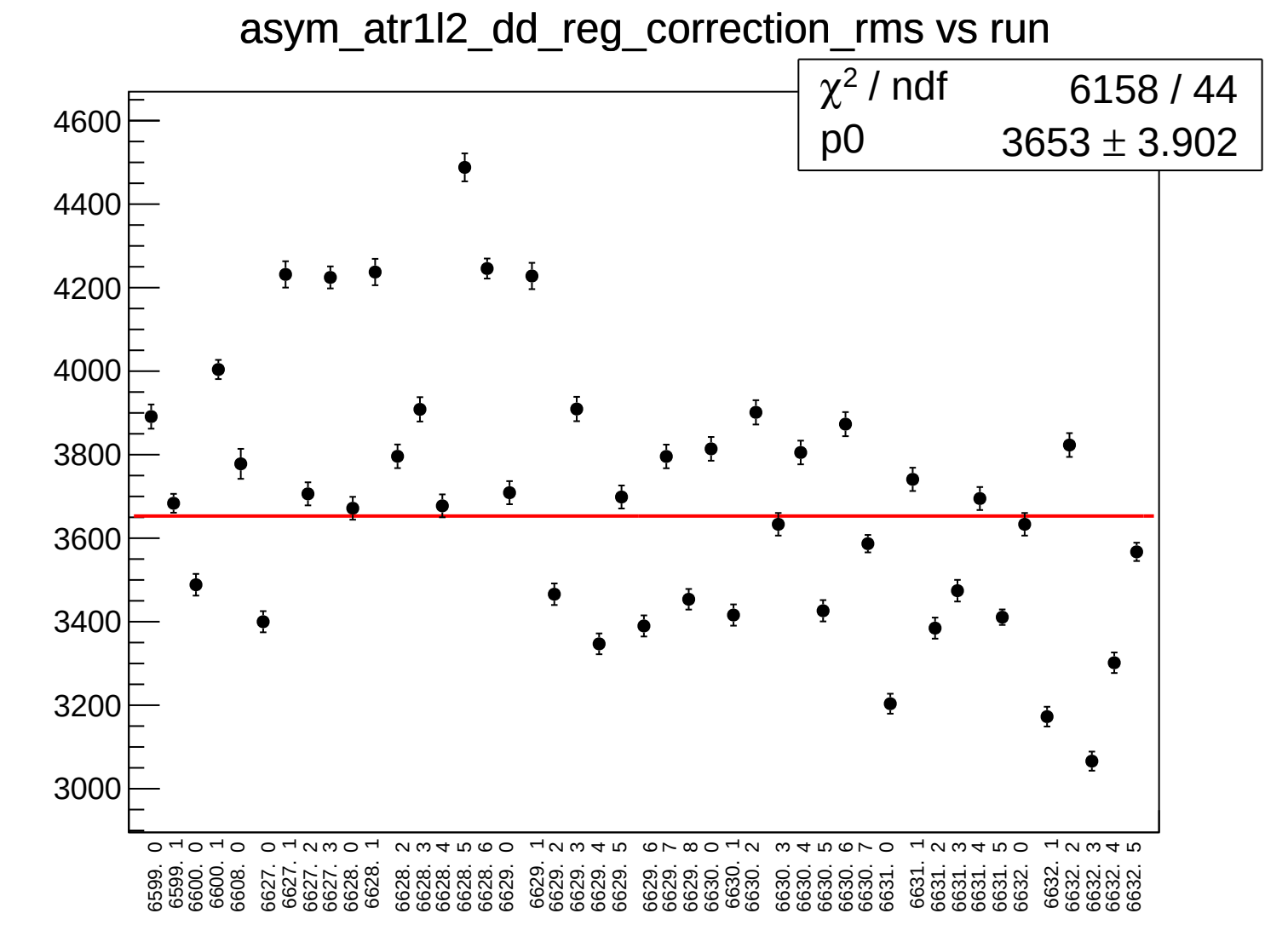

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 63.2 / 44
p0 −5682 ± 5519
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −71.37
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01853
Std Dev 1.185
8
7
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 6158 / 44
p0 3653 ± 3.902
4600
4400
4200
4000
3800
3600
3400
3200
3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
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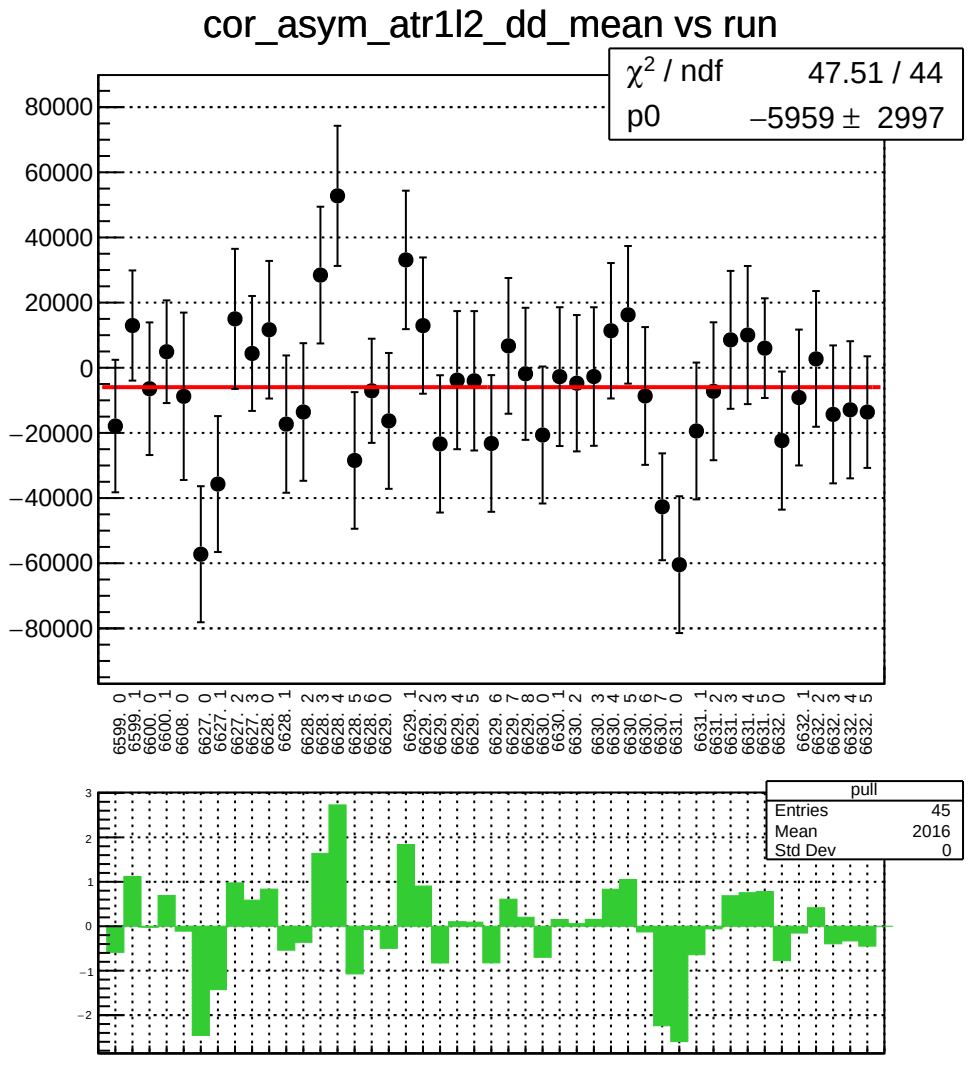
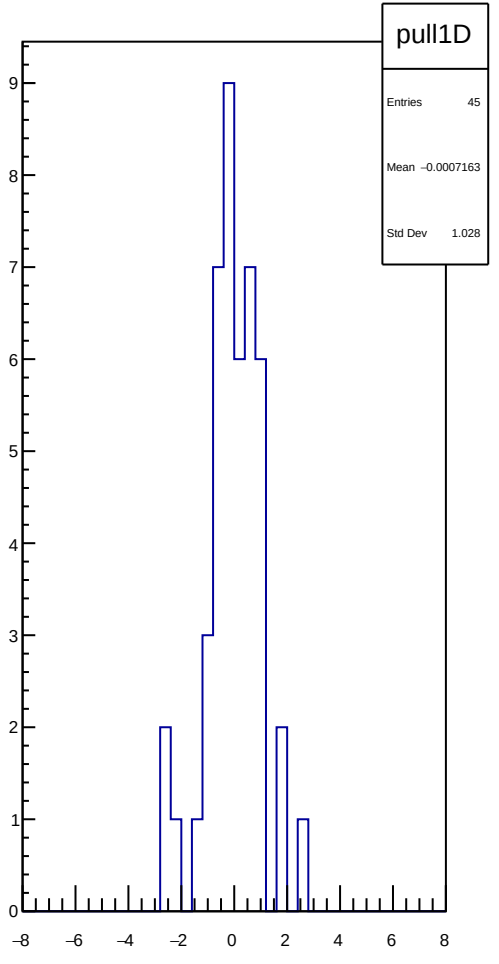
6632. 4
6632. 5


cor_asym_atr1l2_dd_mean vs run
χ² / ndf 47.51 / 44
p0 −5959 ± 2997
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 2016
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.0007163
Std Dev 1.028
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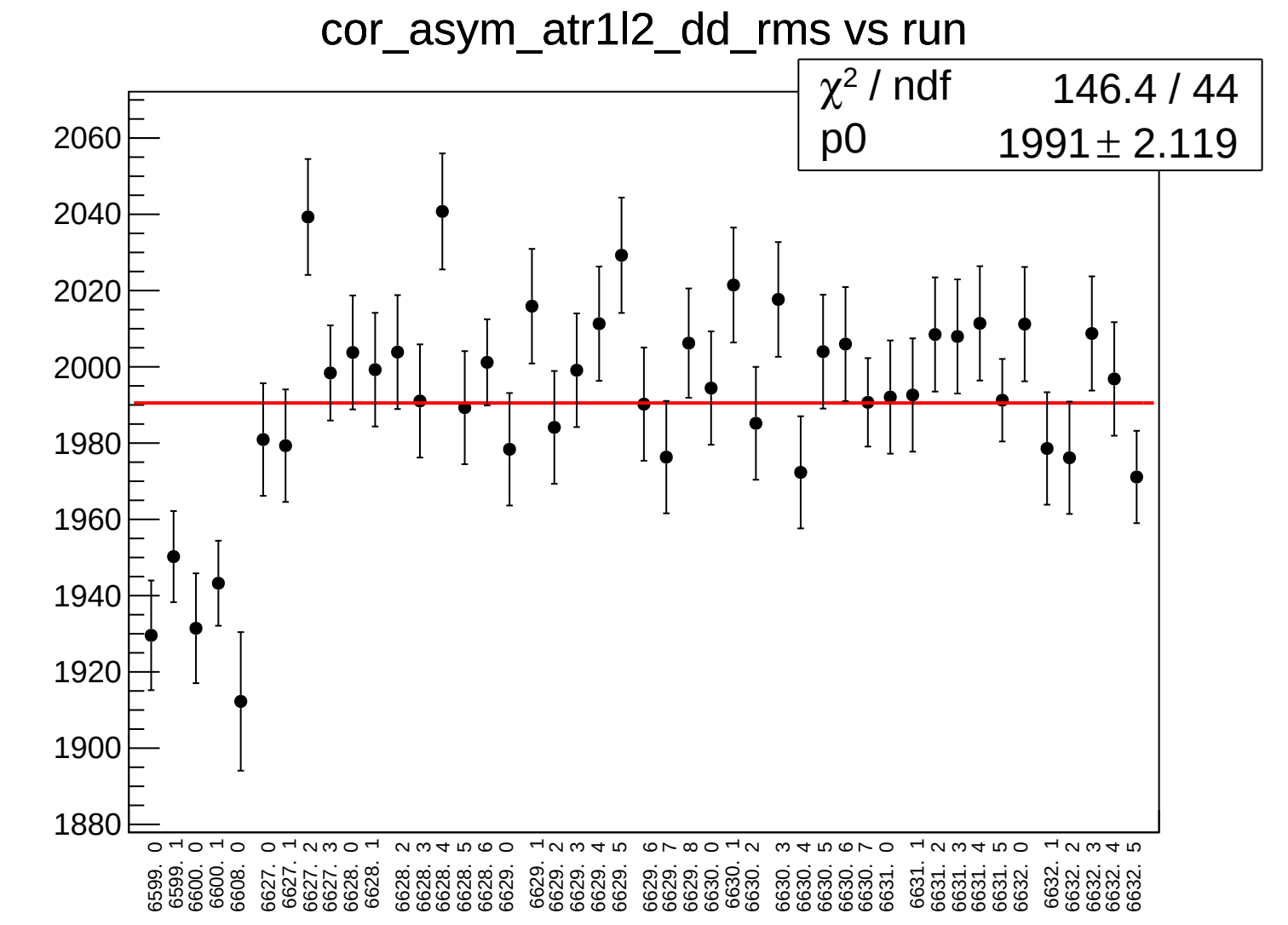
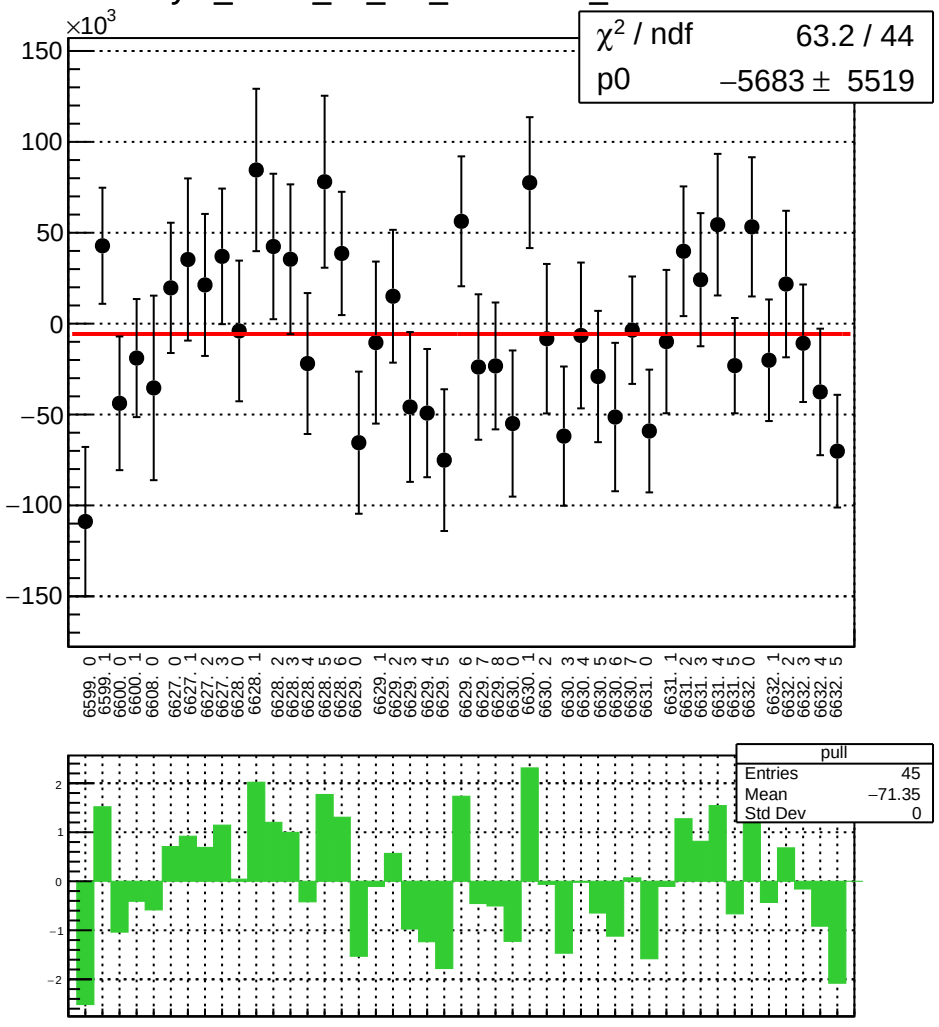
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atr1l2_dd_rms vs run
χ² / ndf 146.4 / 44
p0 1991 ± 2.119
2060
2040
2020
2000
1980
1960
1940
1920
1900
1880
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 63.2 / 44
p0 −5683 ± 5519
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
6628. 3
6628. 4
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6628. 6
6629. 0
6629. 1
6629. 2
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6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −71.35
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01853
Std Dev 1.185
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
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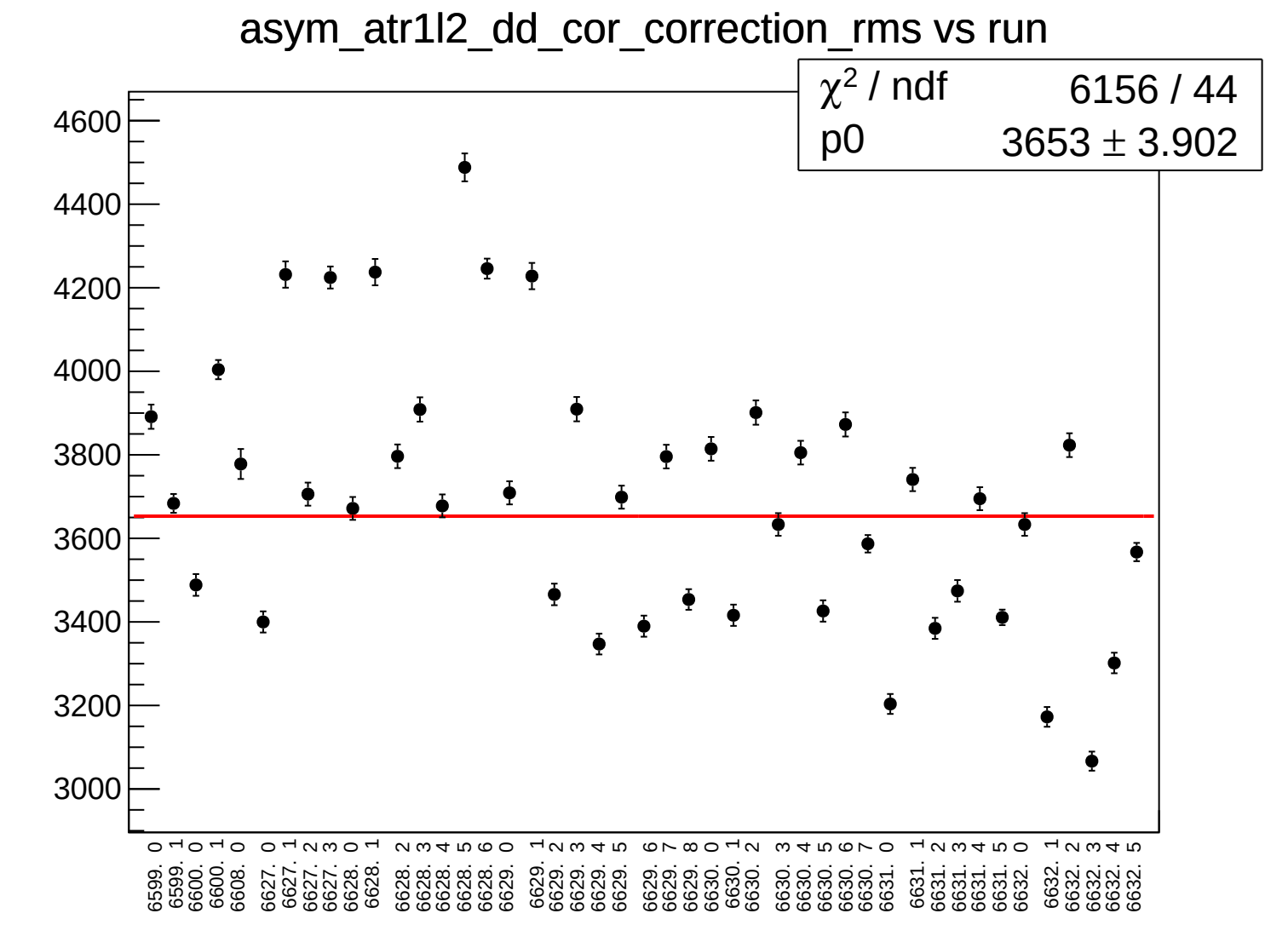
2
4
6
8


asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 6156 / 44
p0 3653 ± 3.902
4600
4400
4200
4000
3800
3600
3400
3200
3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
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6628. 5
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6629. 6
6629. 7
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6630. 2
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6630. 5
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6630. 7
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6631. 1
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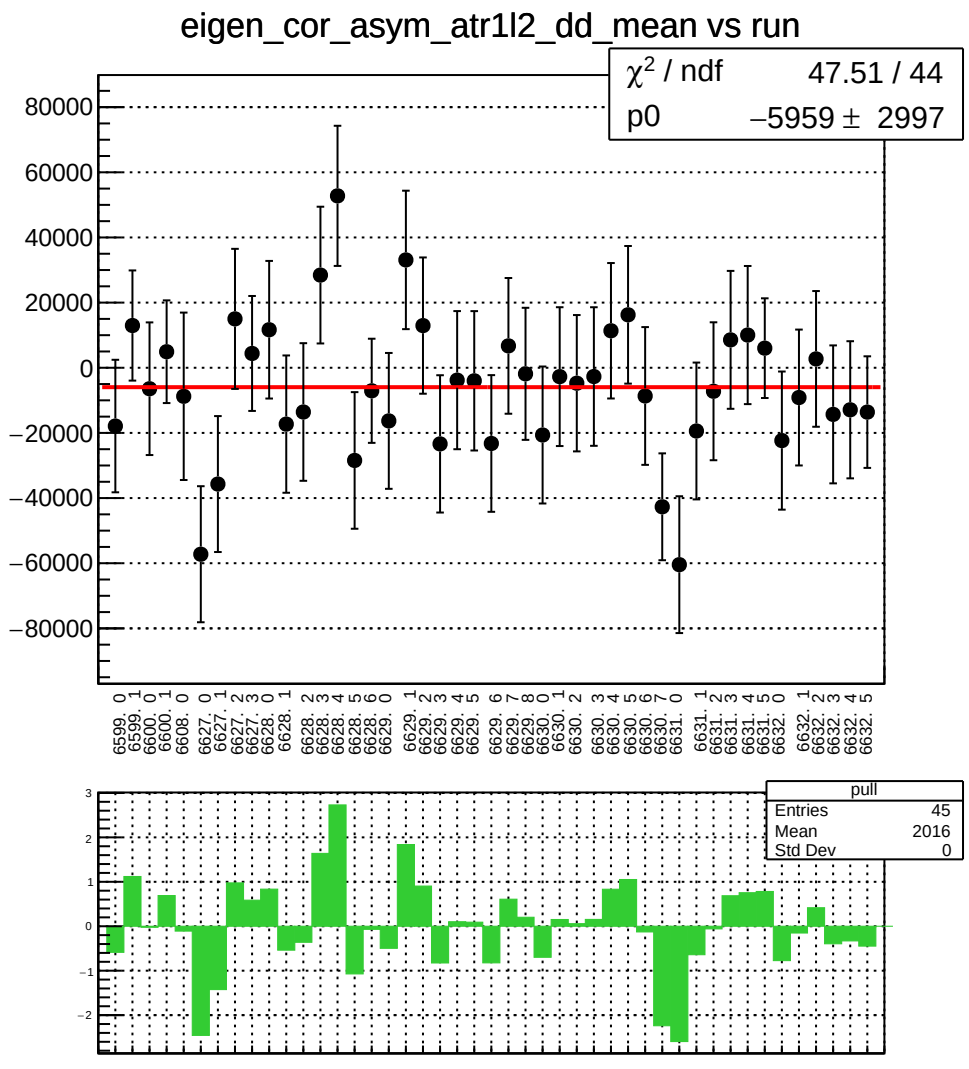
6632. 4
6632. 5


eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 47.51 / 44
p0 −5959 ± 2997
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
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6629. 6
6629. 7
6629. 8
6630. 0
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6630. 2
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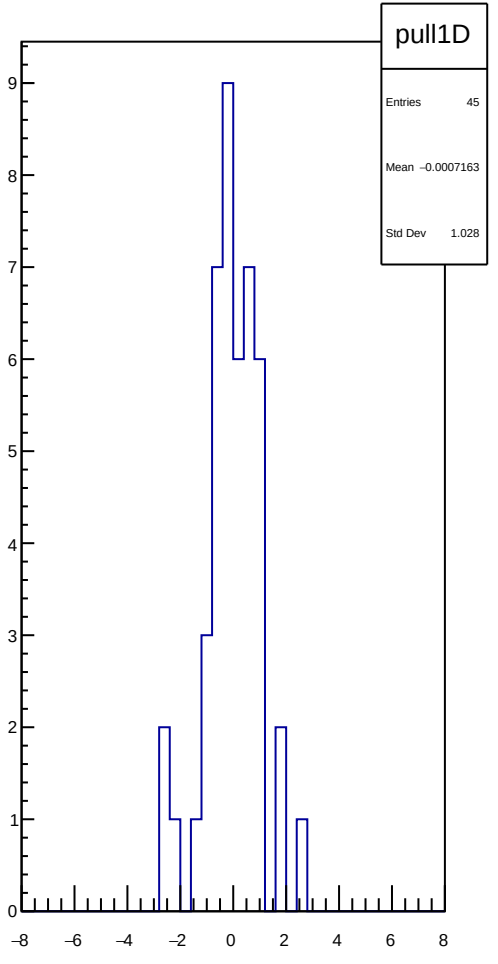
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 2016
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.0007163
Std Dev 1.028
9
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1
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−4
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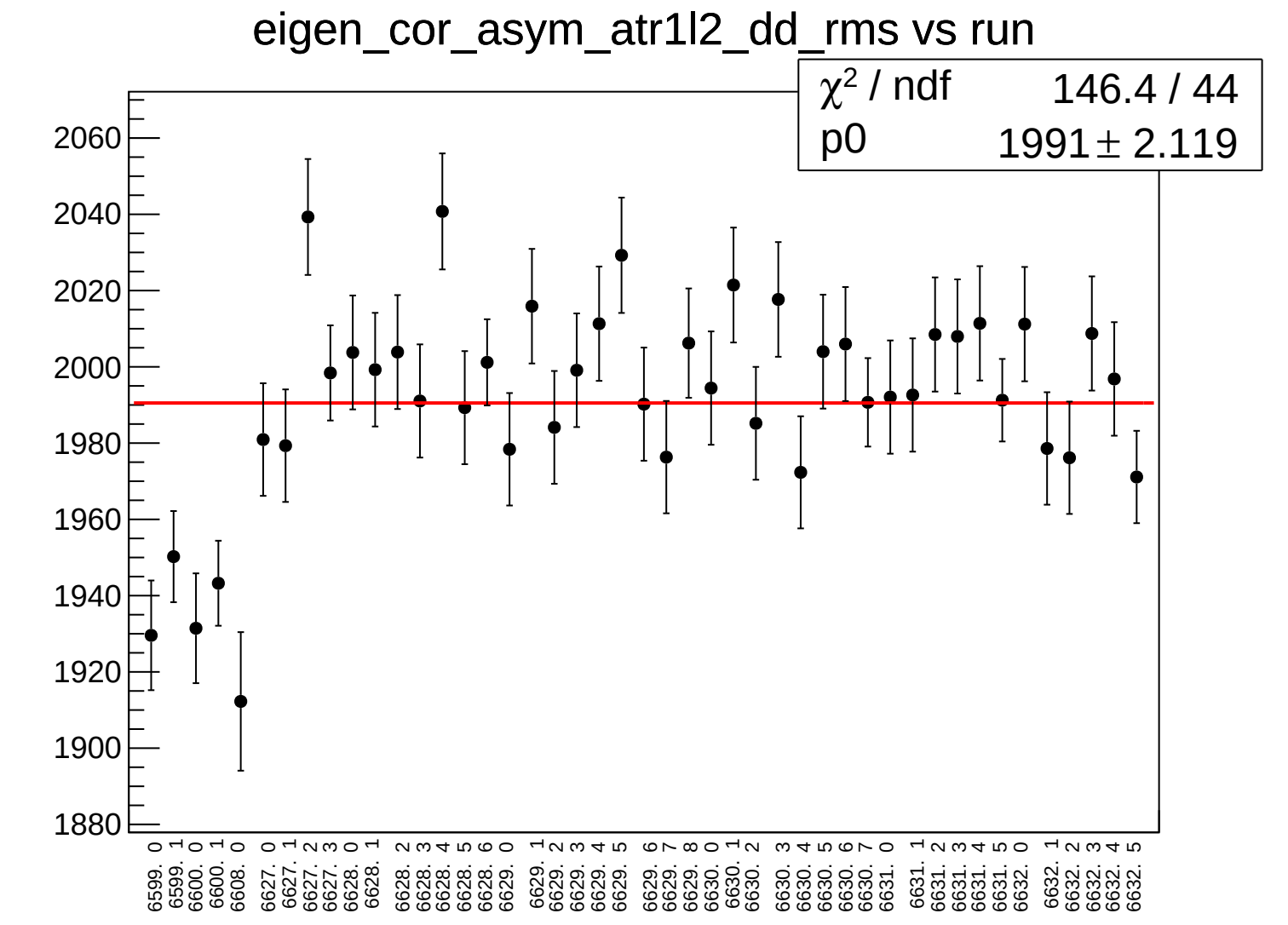
6
8


eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 146.4 / 44
p0 1991 ± 2.119
2060
2040
2020
2000
1980
1960
1940
1920
1900
1880
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
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6629. 2
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6629. 5
6629. 6
6629. 7
6629. 8
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6630. 2
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6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
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6631. 5
6632. 0
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6632. 2
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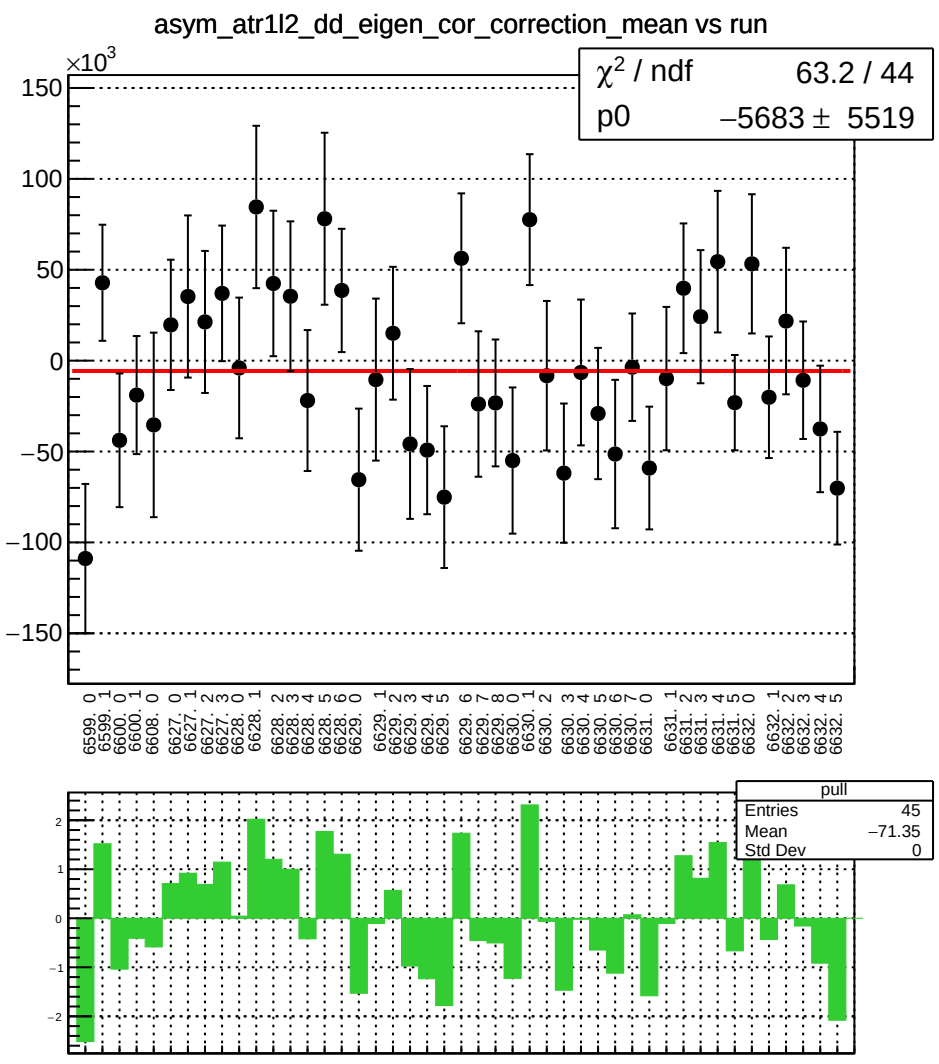
6632. 5


asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 63.2 / 44
p0 −5683 ± 5519
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 7
6629. 8
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6630. 2
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6630. 7
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −71.35
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01853
Std Dev 1.185
8
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1
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−4
−2
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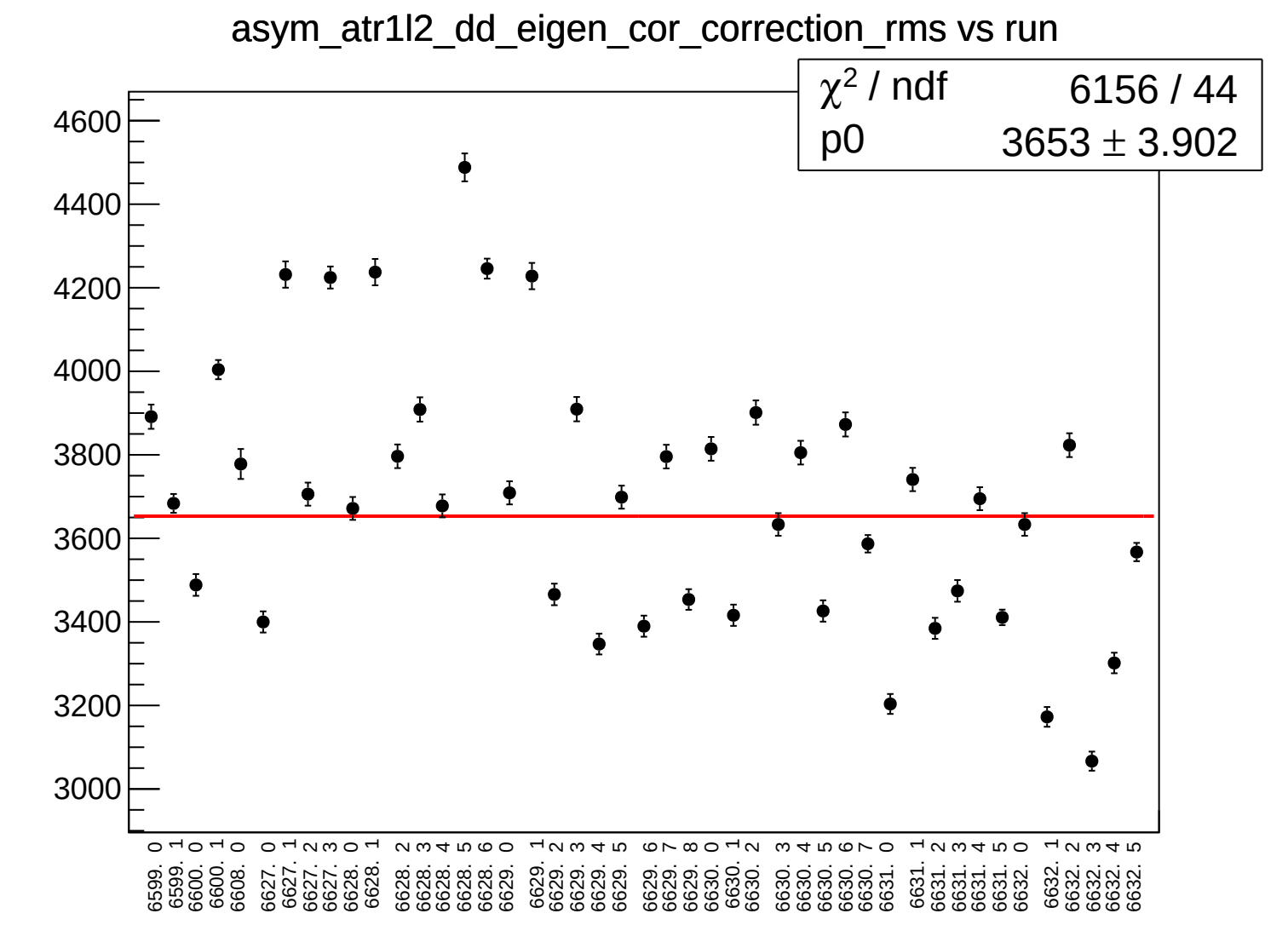
6
8


asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 6156 / 44
p0 3653 ± 3.902
4600
4400
4200
4000
3800
3600
3400
3200
3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
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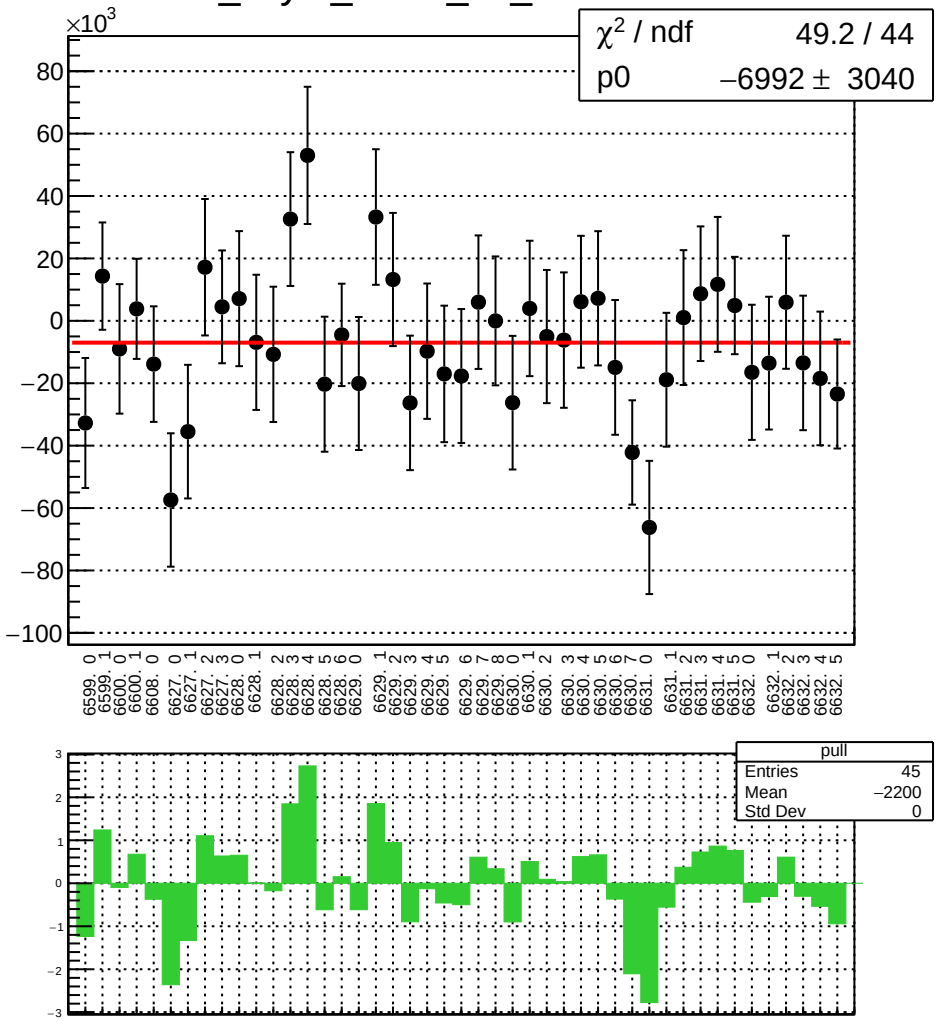
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


dit_asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 49.2 / 44
p0 −6992 ± 3040
80
60
40
20
0
−20
−40
−60
−80
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 8
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6630. 1
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
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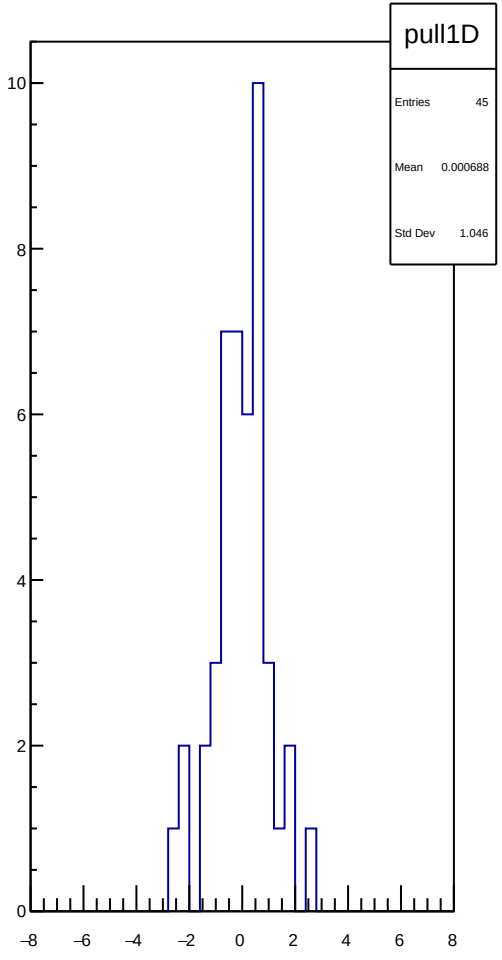
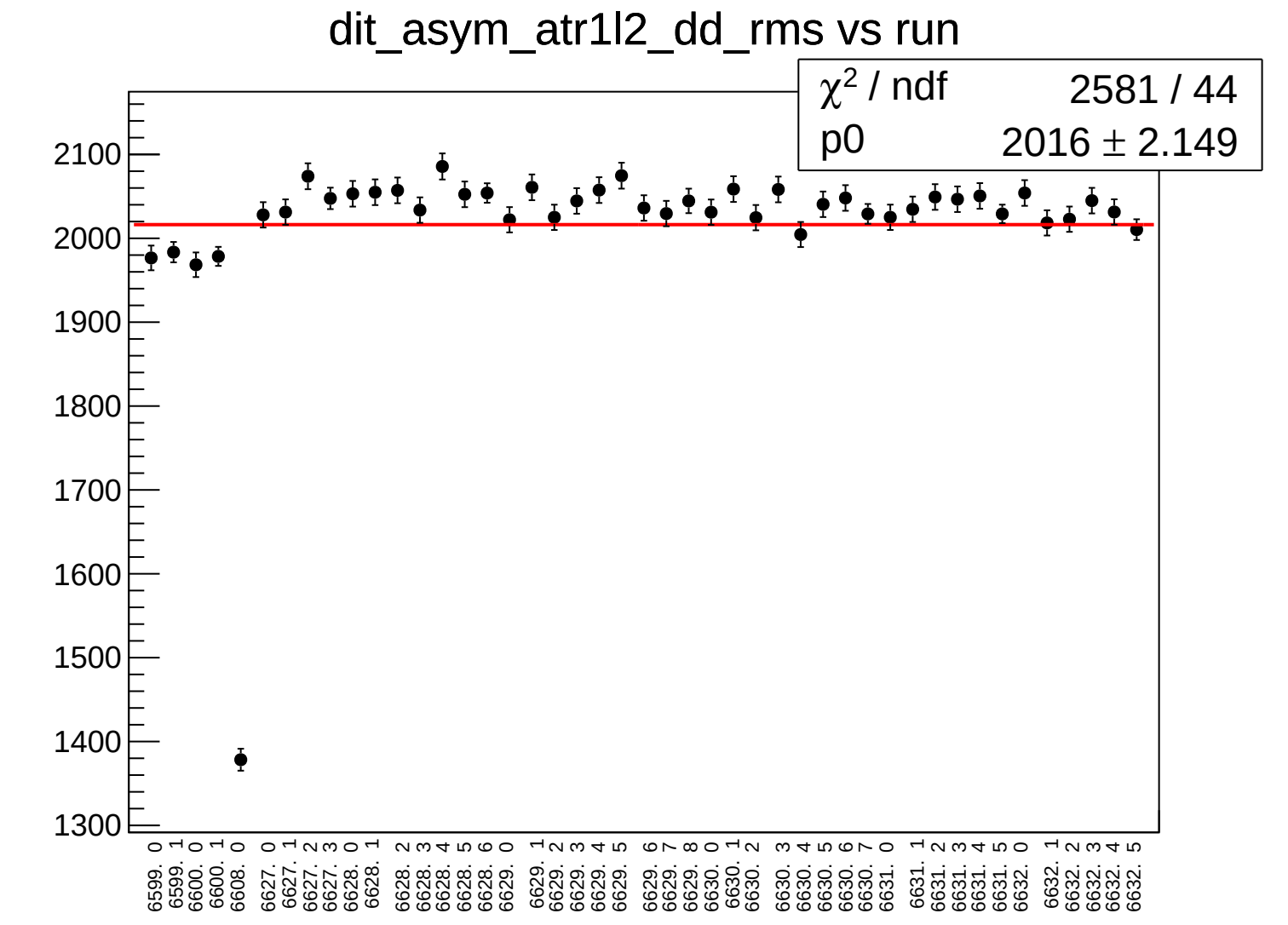
6632. 5
pull
Entries 45
Mean −2200
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.000688
Std Dev 1.046
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atr1l2_dd_rms vs run
χ² / ndf 2581 / 44
p0 2016 ± 2.149
2100
2000
1900
1800
1700
1600
1500
1400
1300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
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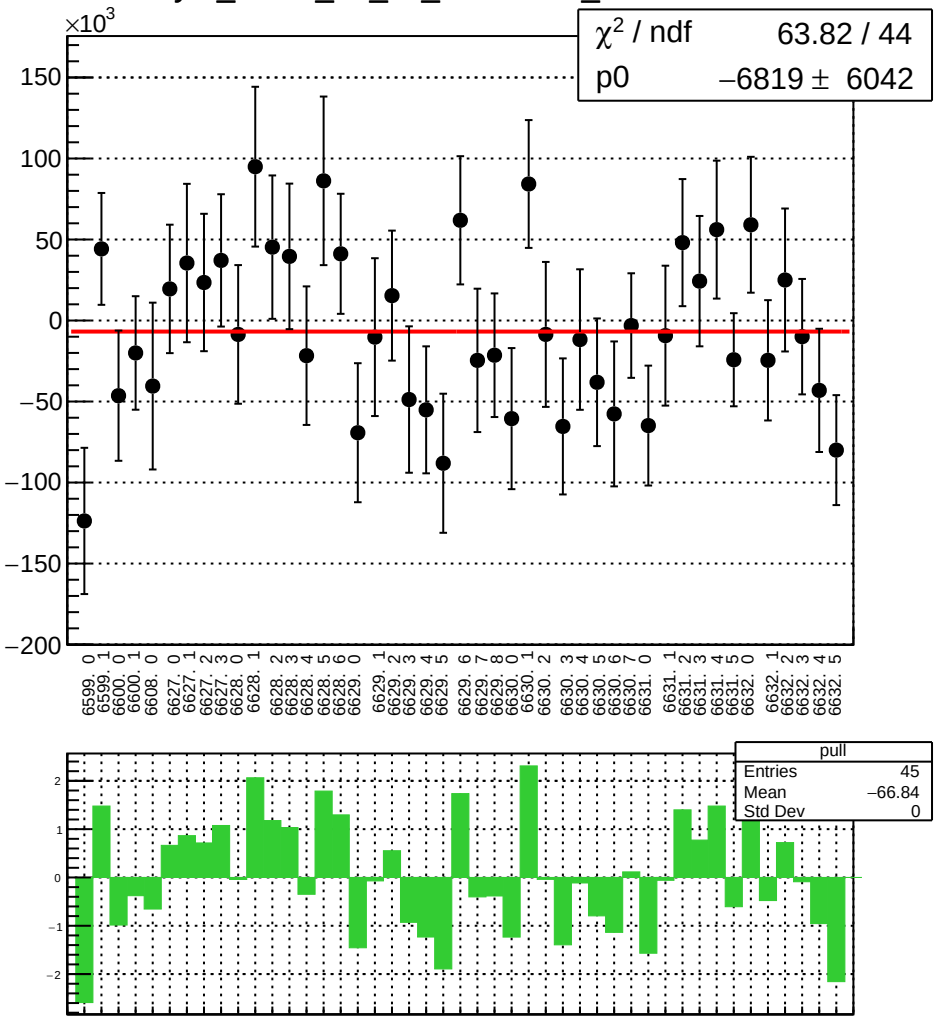
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 63.82 / 44
p0 −6819 ± 6042
150
100
50
0
−50
−100
−150
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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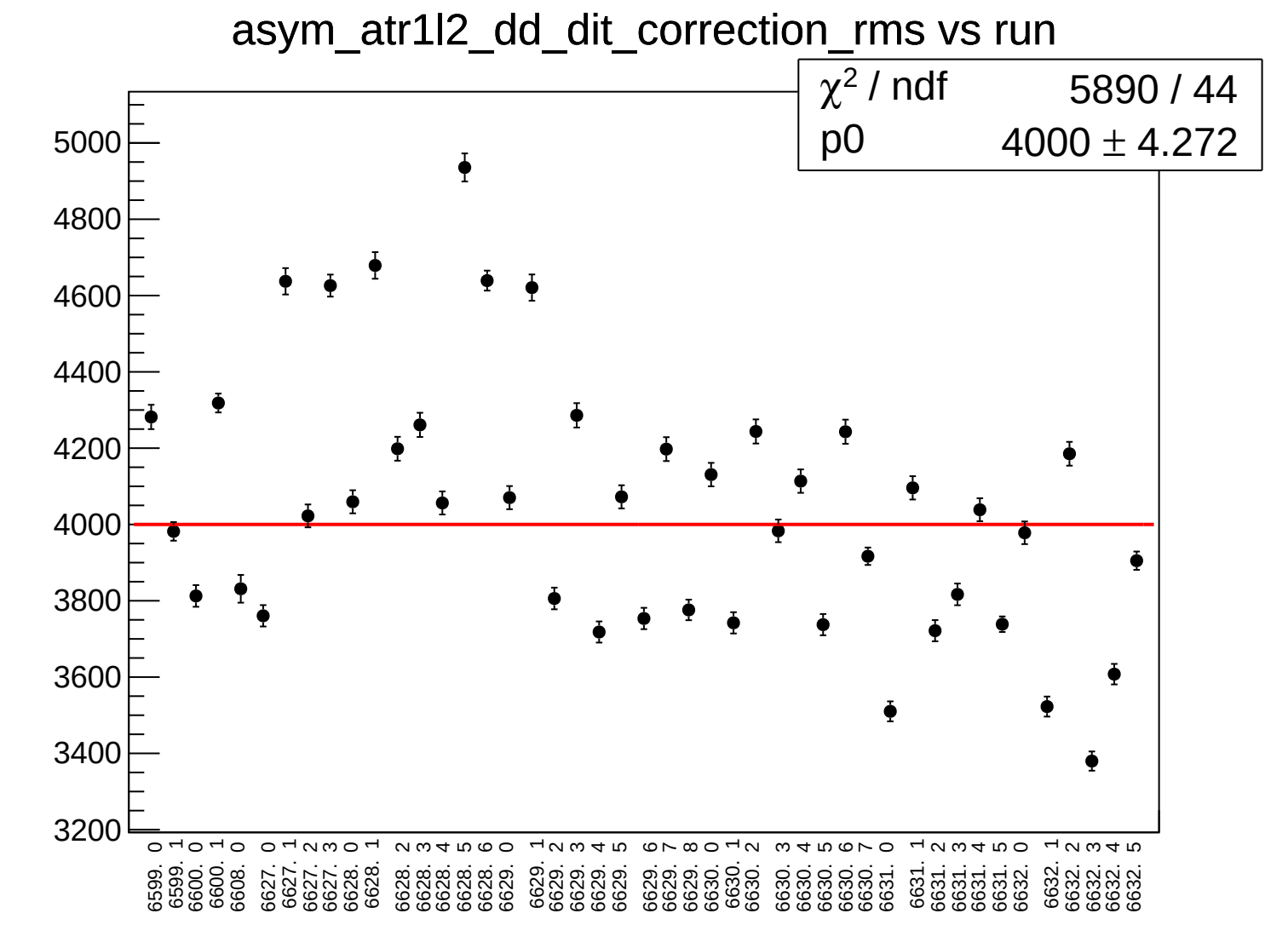
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −66.84
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.0185
Std Dev 1.191
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 5890 / 44
p0 4000 ± 4.272
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
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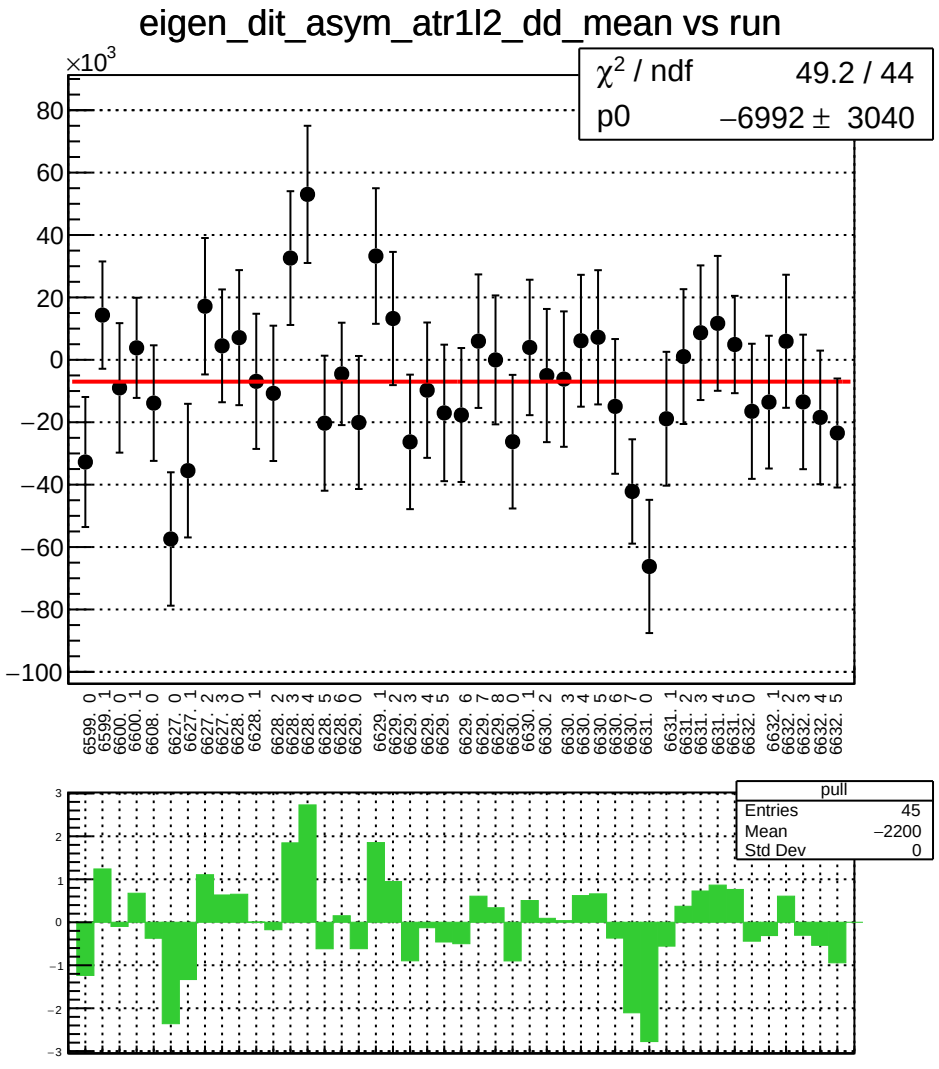
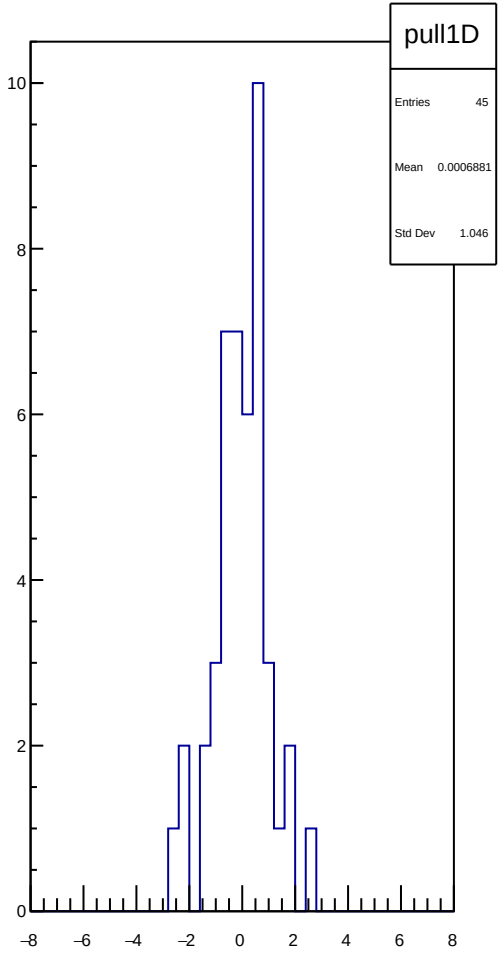
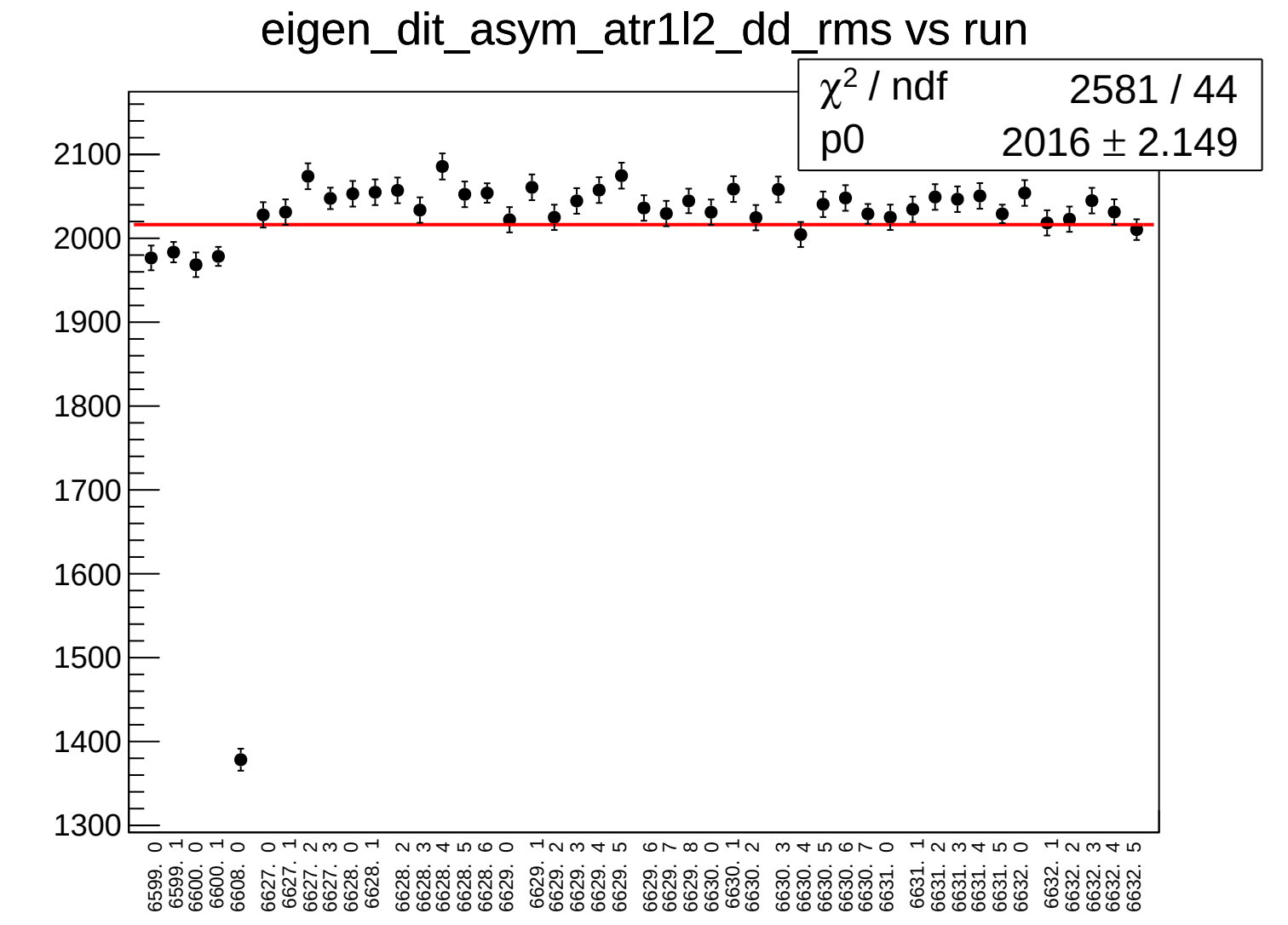
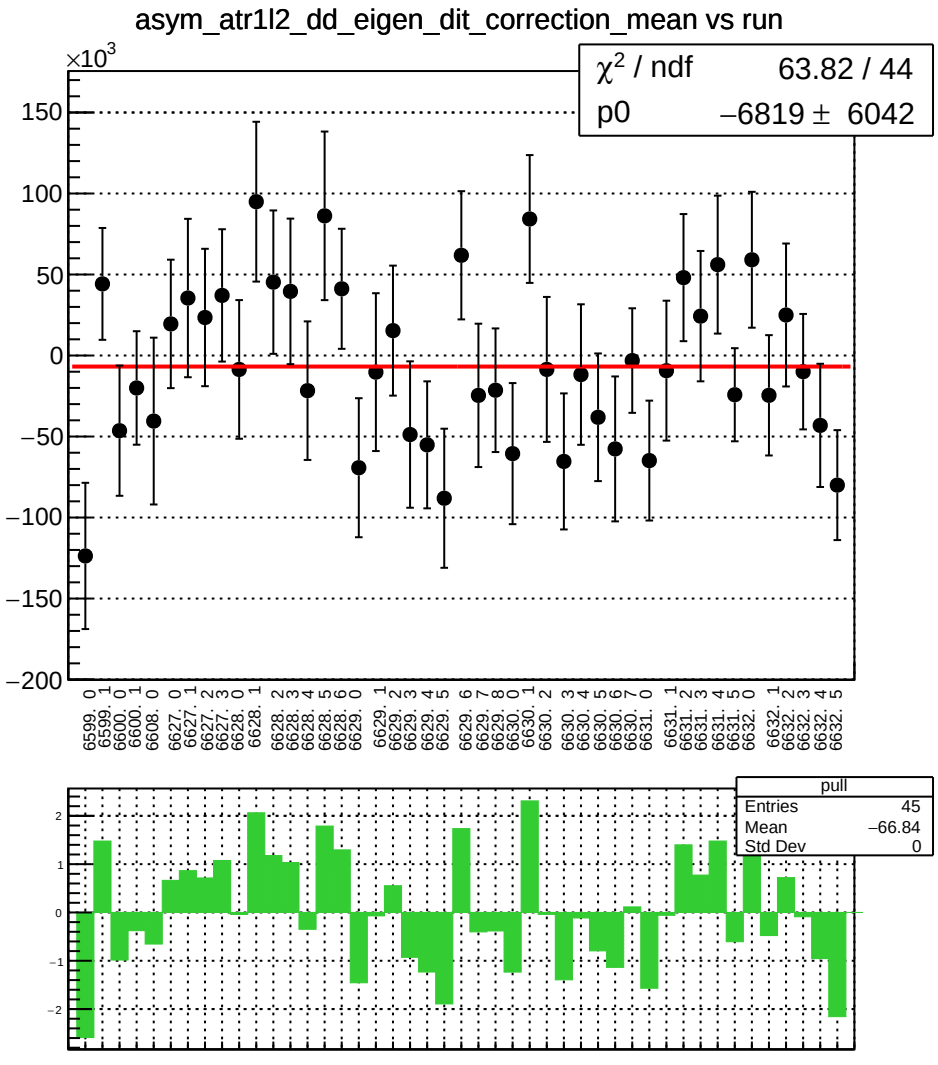
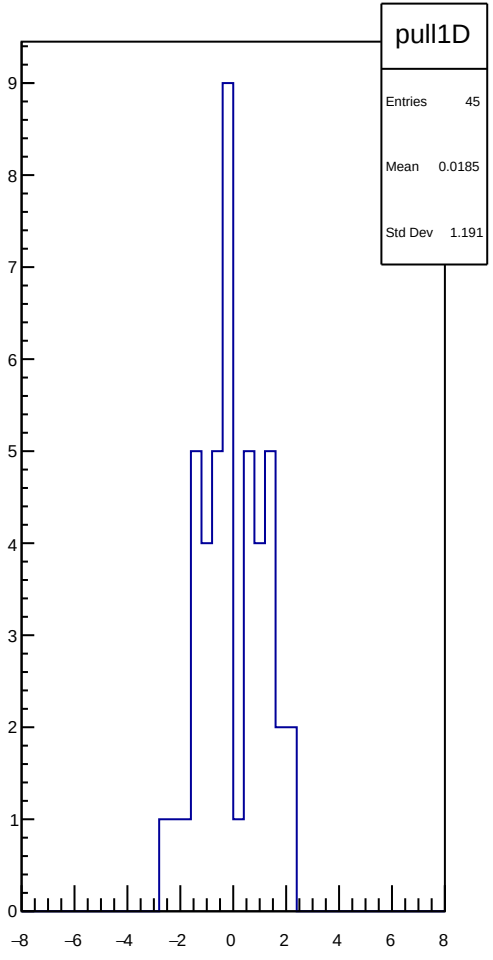
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

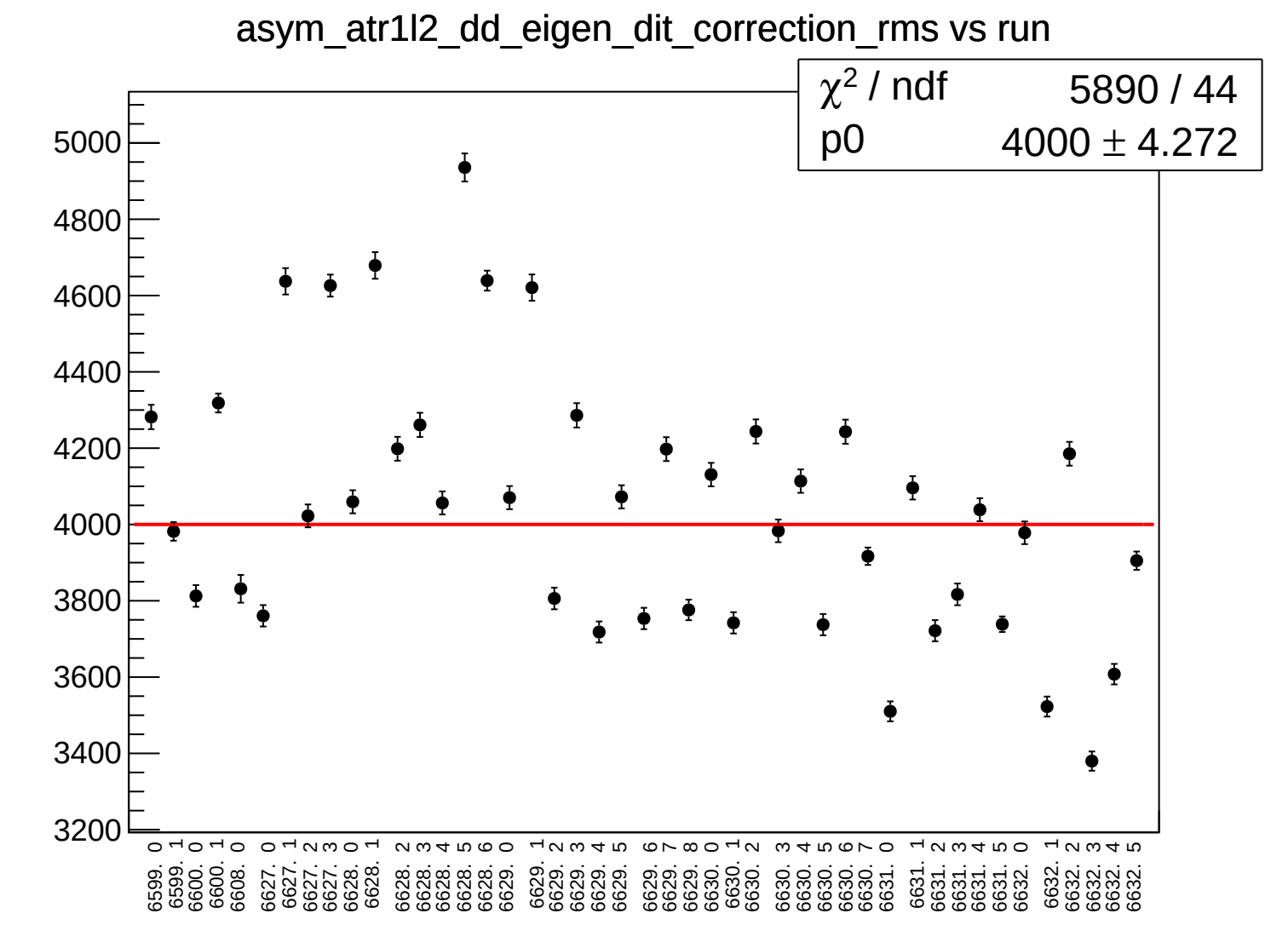

eigen_dit_asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 49.2 / 44
p0 −6992 ± 3040
pull
Entries 45
Mean −2200
Std Dev 0

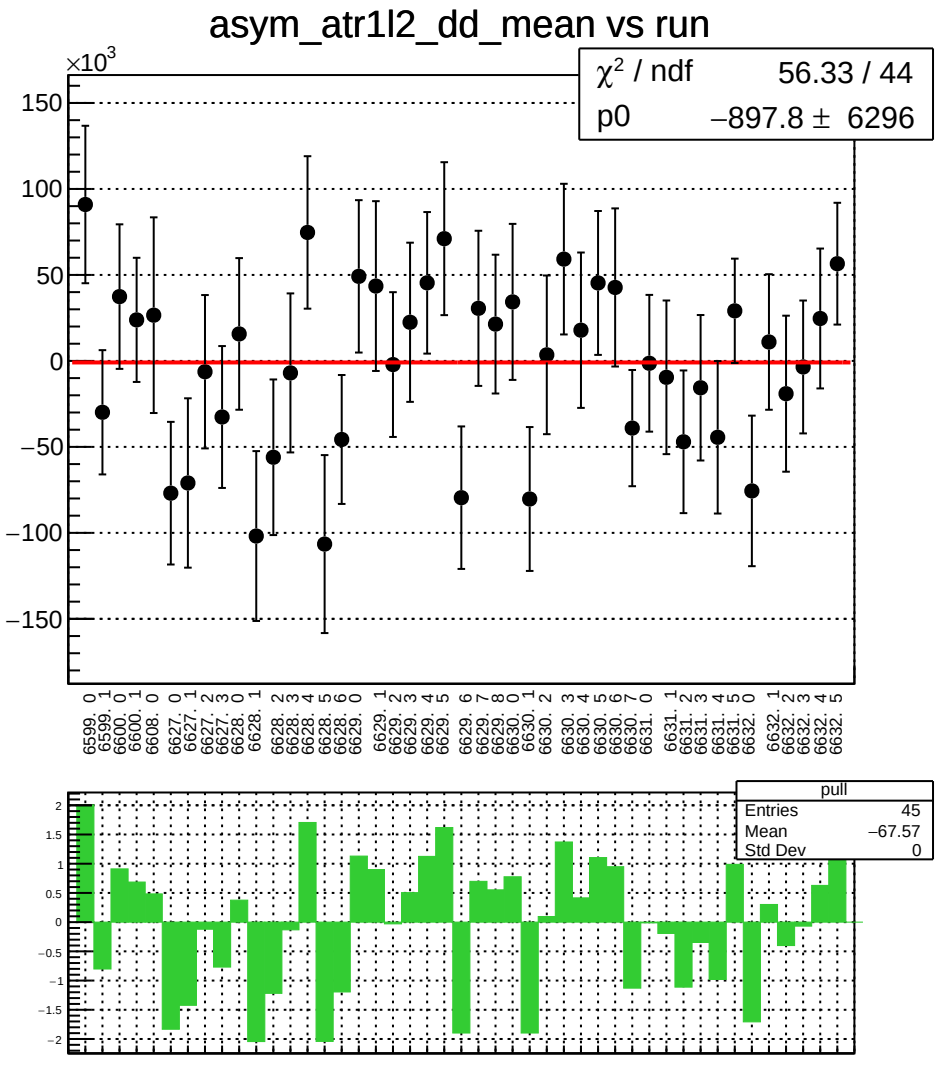

pull1D
Entries 45
Mean 0.0006881
Std Dev 1.046

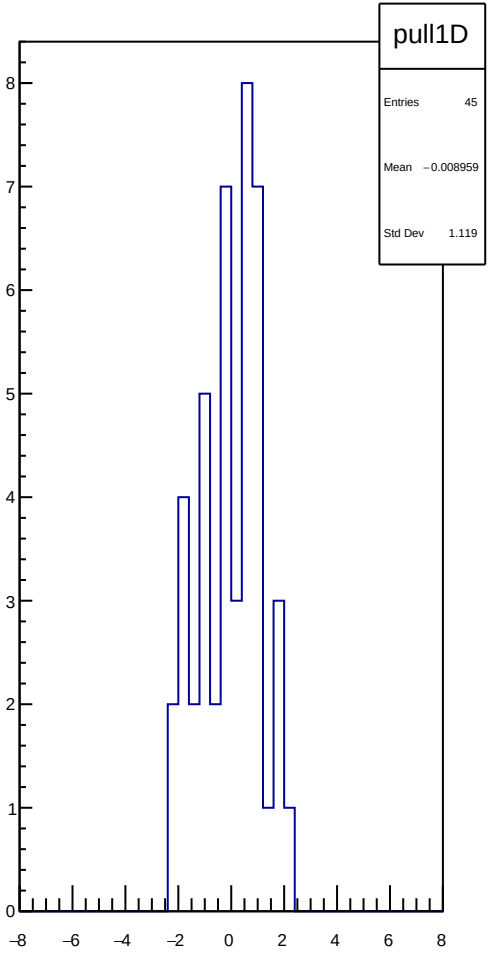

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 2581 / 44
p0 2016 ± 2.149
2100
2000
1900
1800
1700
1600
1500
1400
1300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

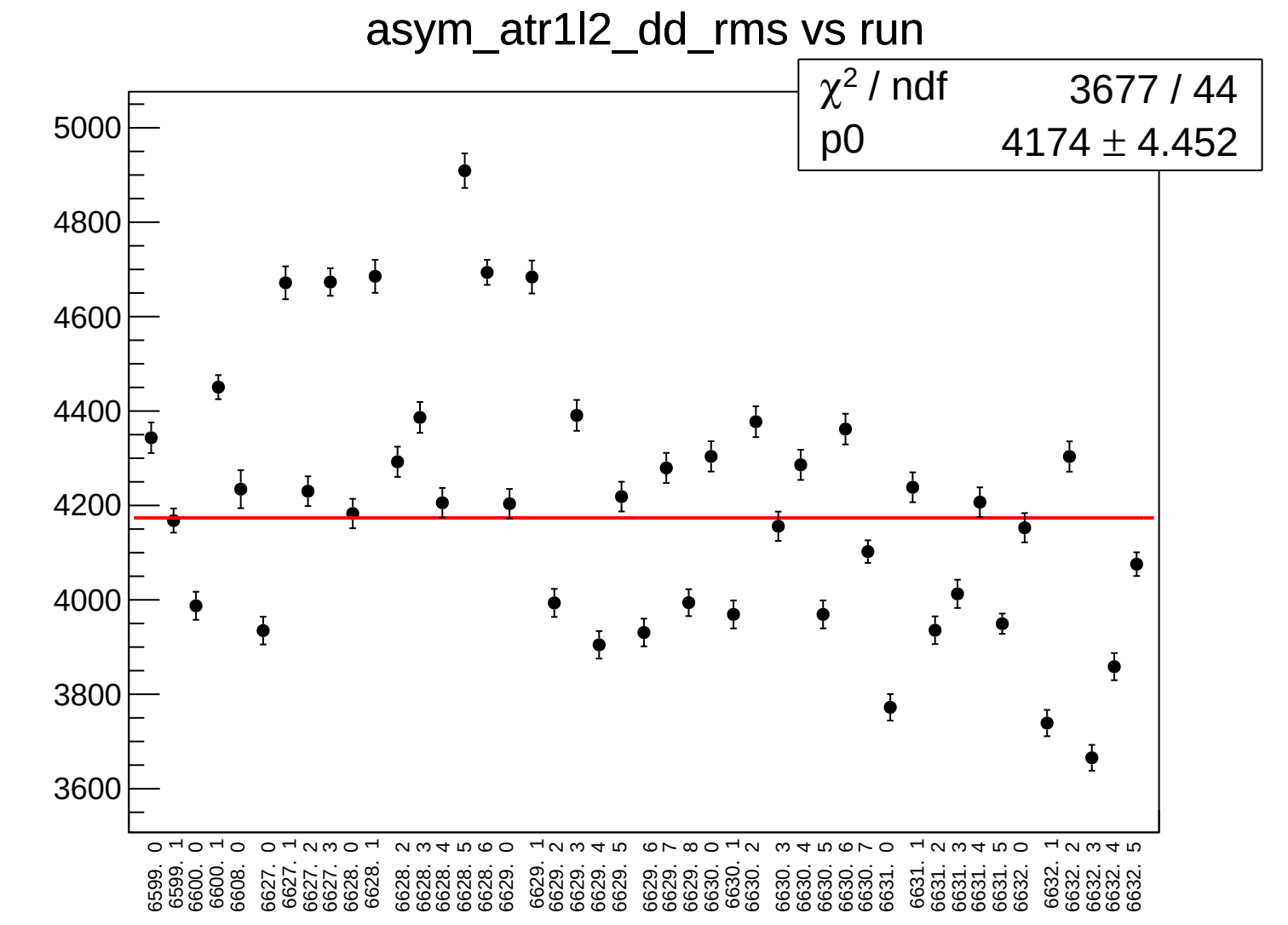

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 63.82 / 44
p0 −6819 ± 6042
150
100
50
0
−50
−100
−150
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −66.84
Std Dev 0
2
1
0
−1
−2

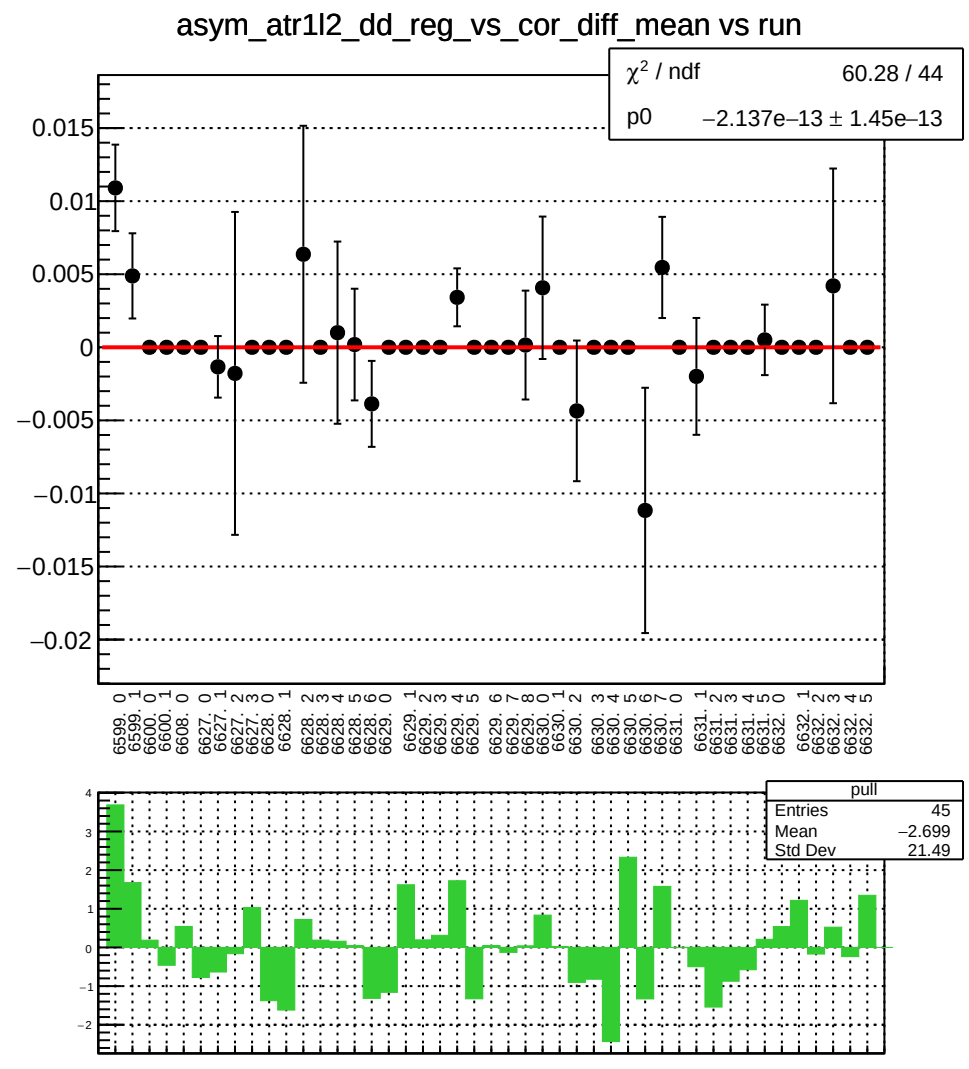

pull1D
Entries 45
Mean 0.0185
Std Dev 1.191
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

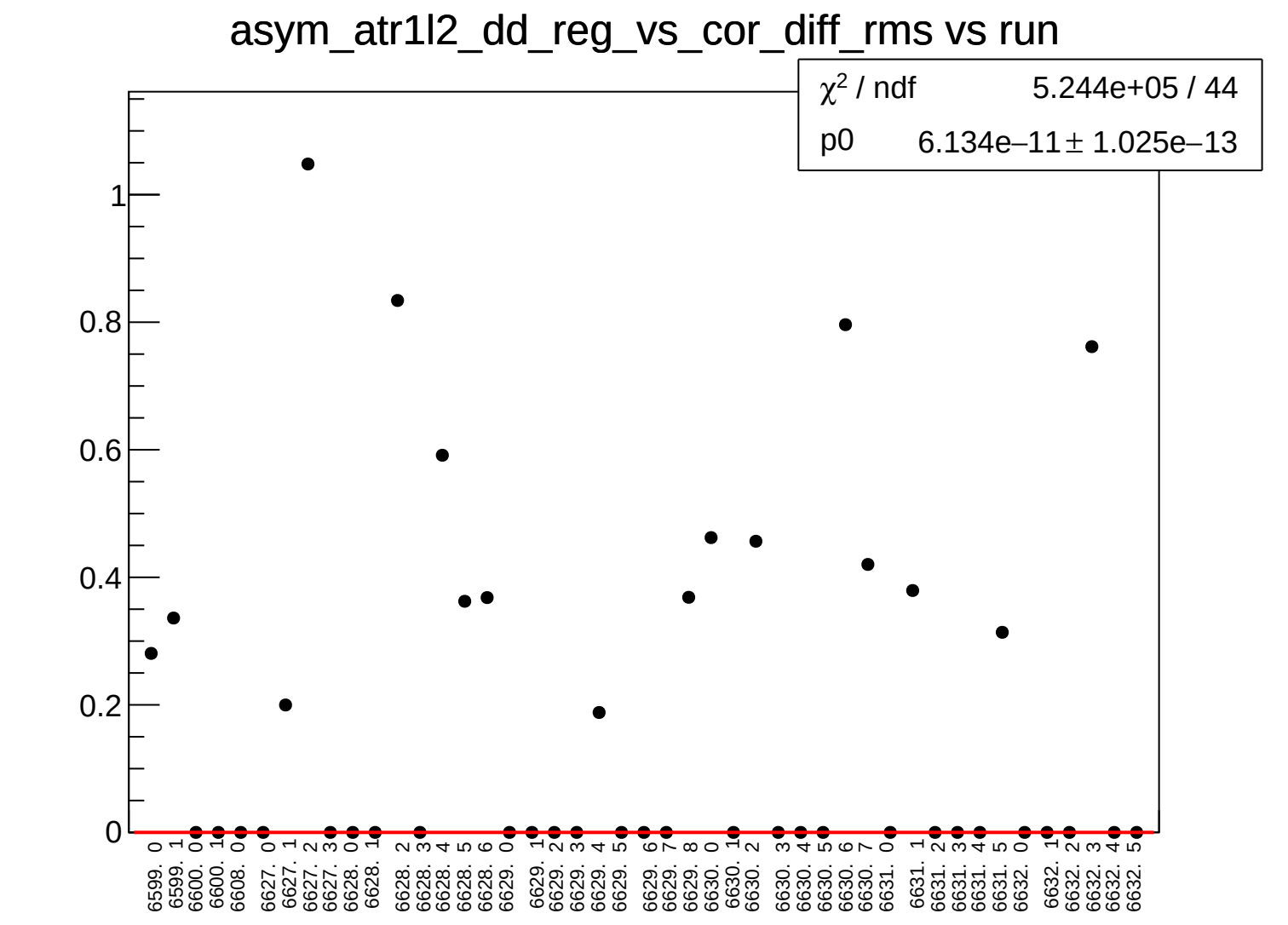

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 5890 / 44
p0 4000 ± 4.272
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

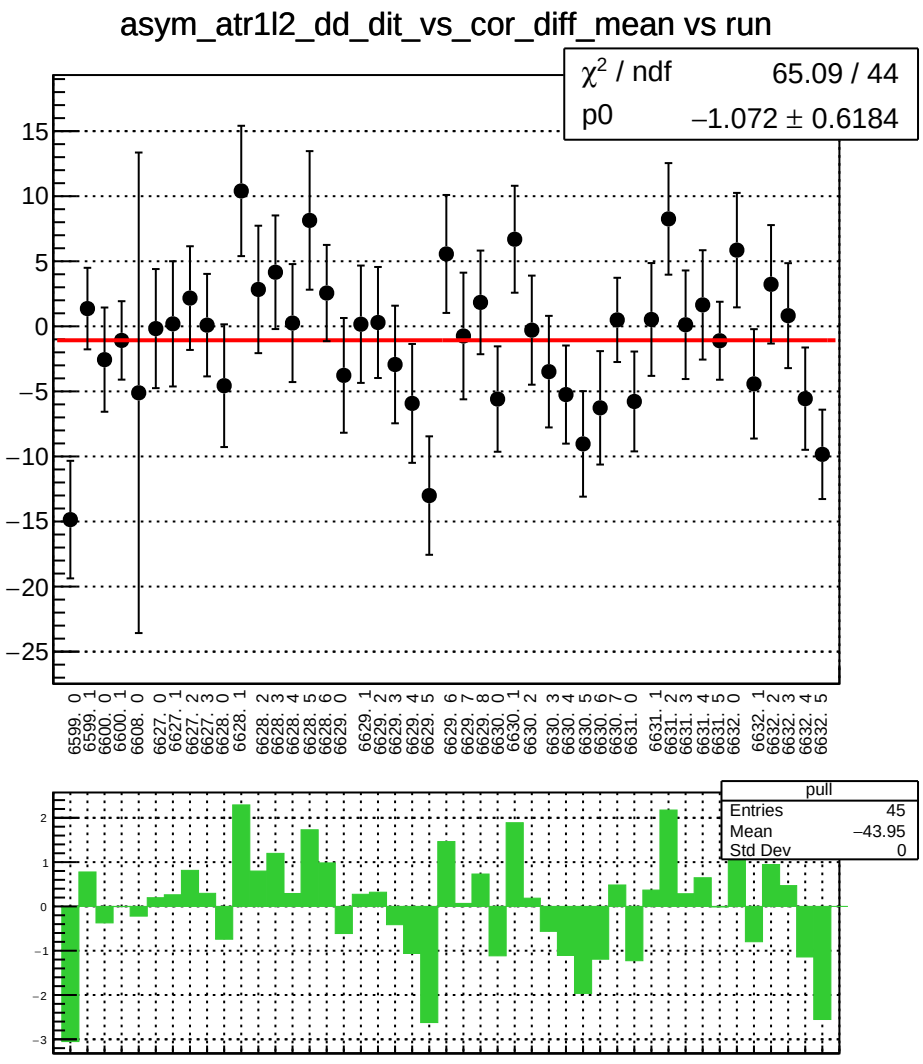

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 56.33 / 44
p0 −897.8 ± 6296
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −67.57
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

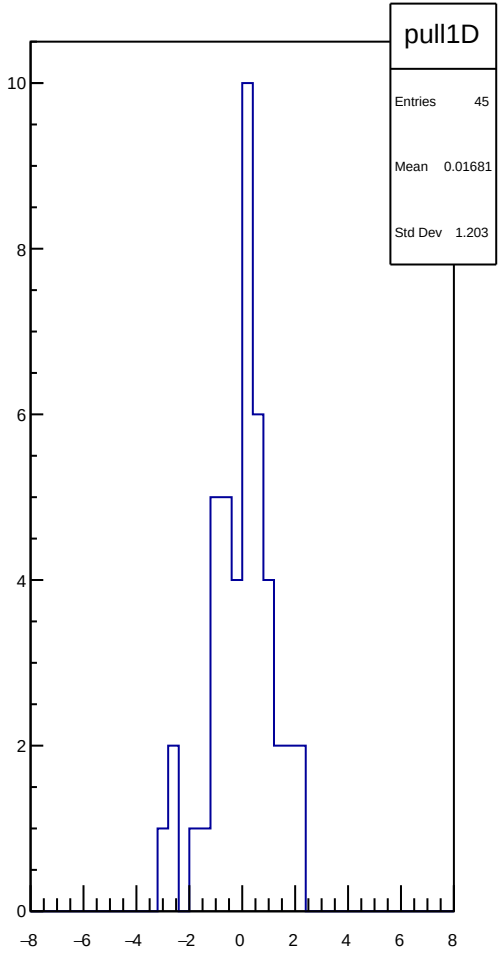

pull1D
Entries 45
Mean −0.008959
Std Dev 1.119
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

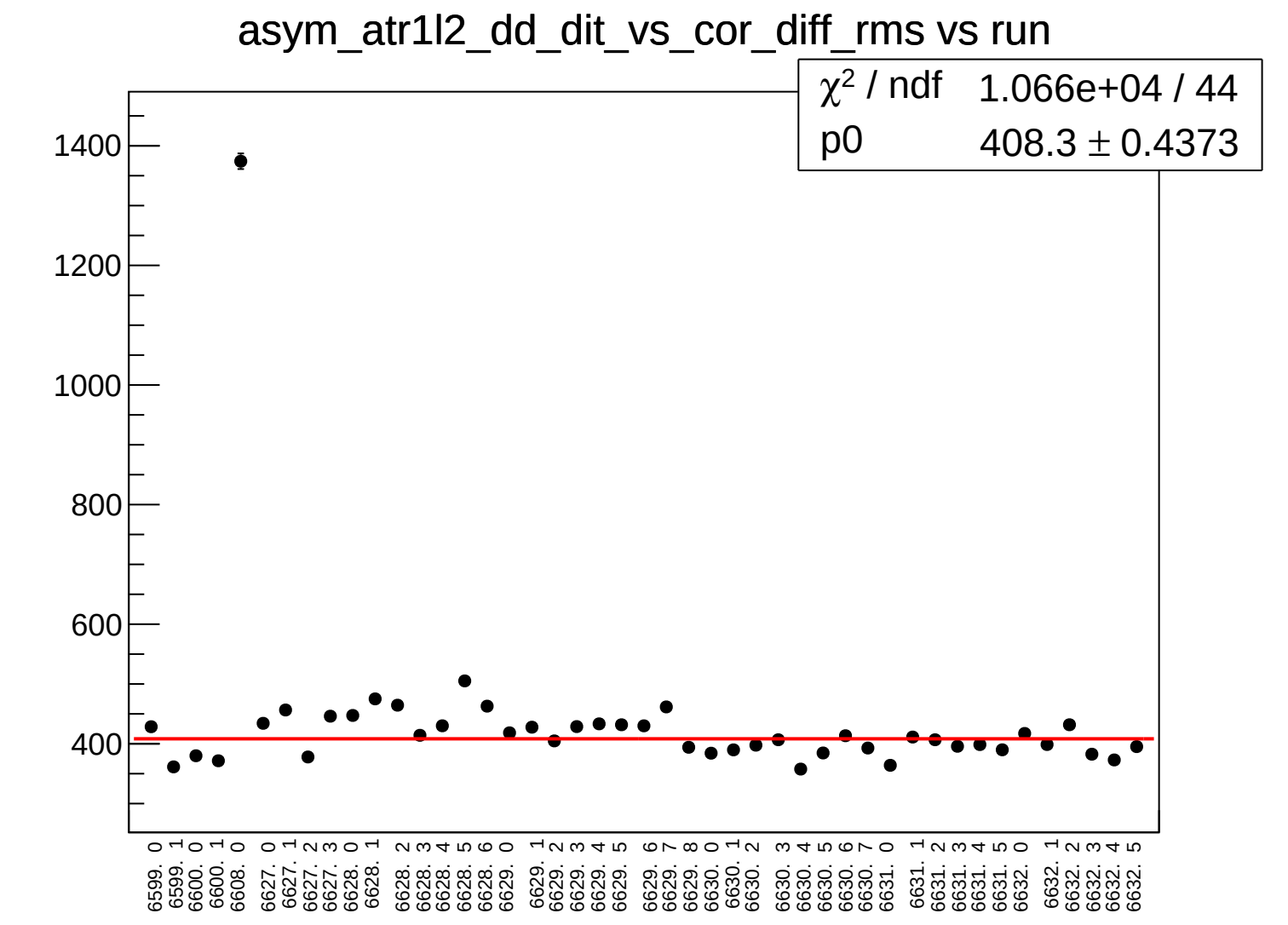

asym_atr1l2_dd_rms vs run
χ² / ndf 3677 / 44
p0 4174 ± 4.452
5000
4800
4600
4400
4200
4000
3800
3600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

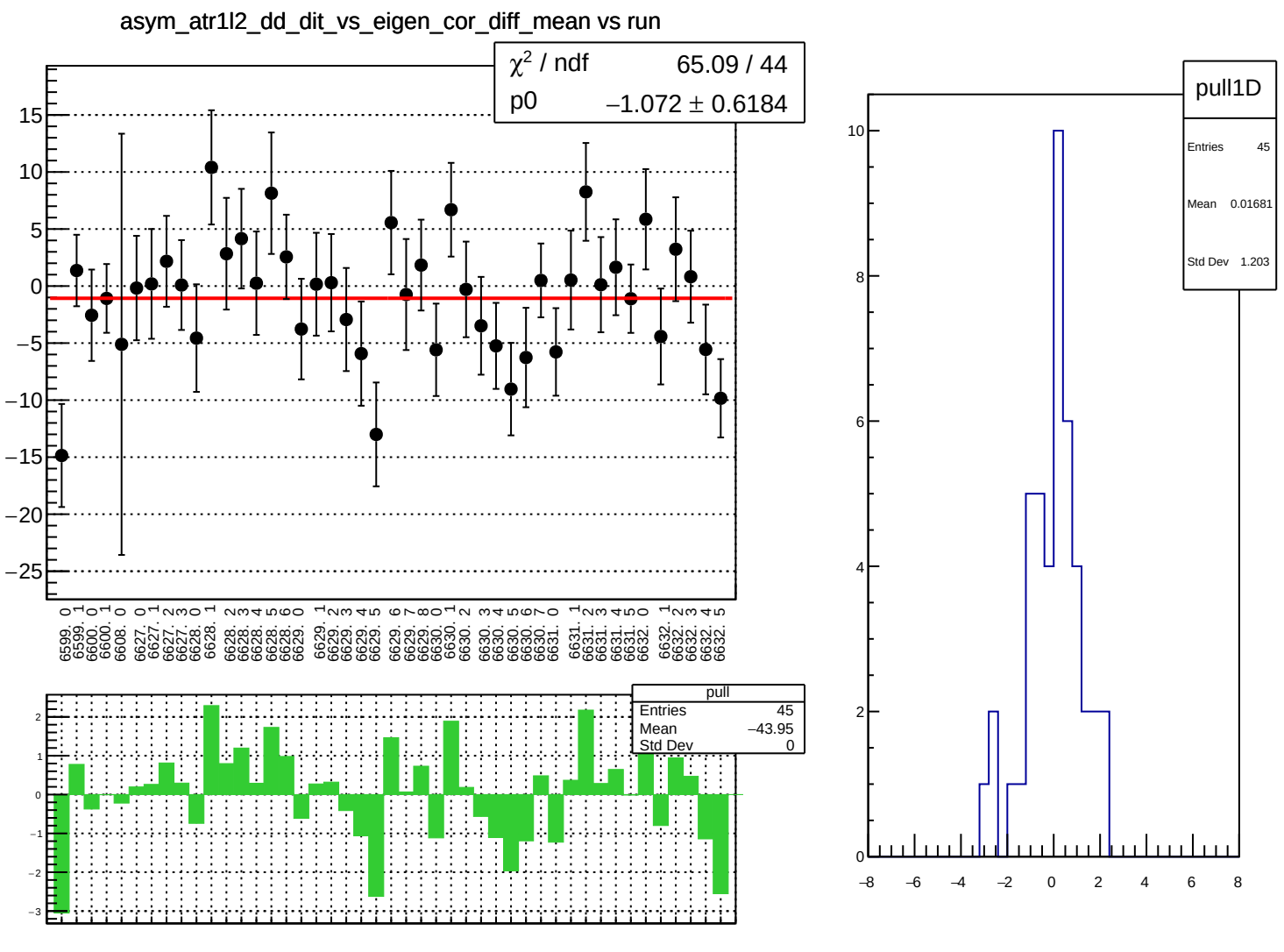

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 60.28 / 44
p0 −2.137e−13 ± 1.45e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −2.699
Std Dev 21.49
4
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.05455
Std Dev 1.156
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

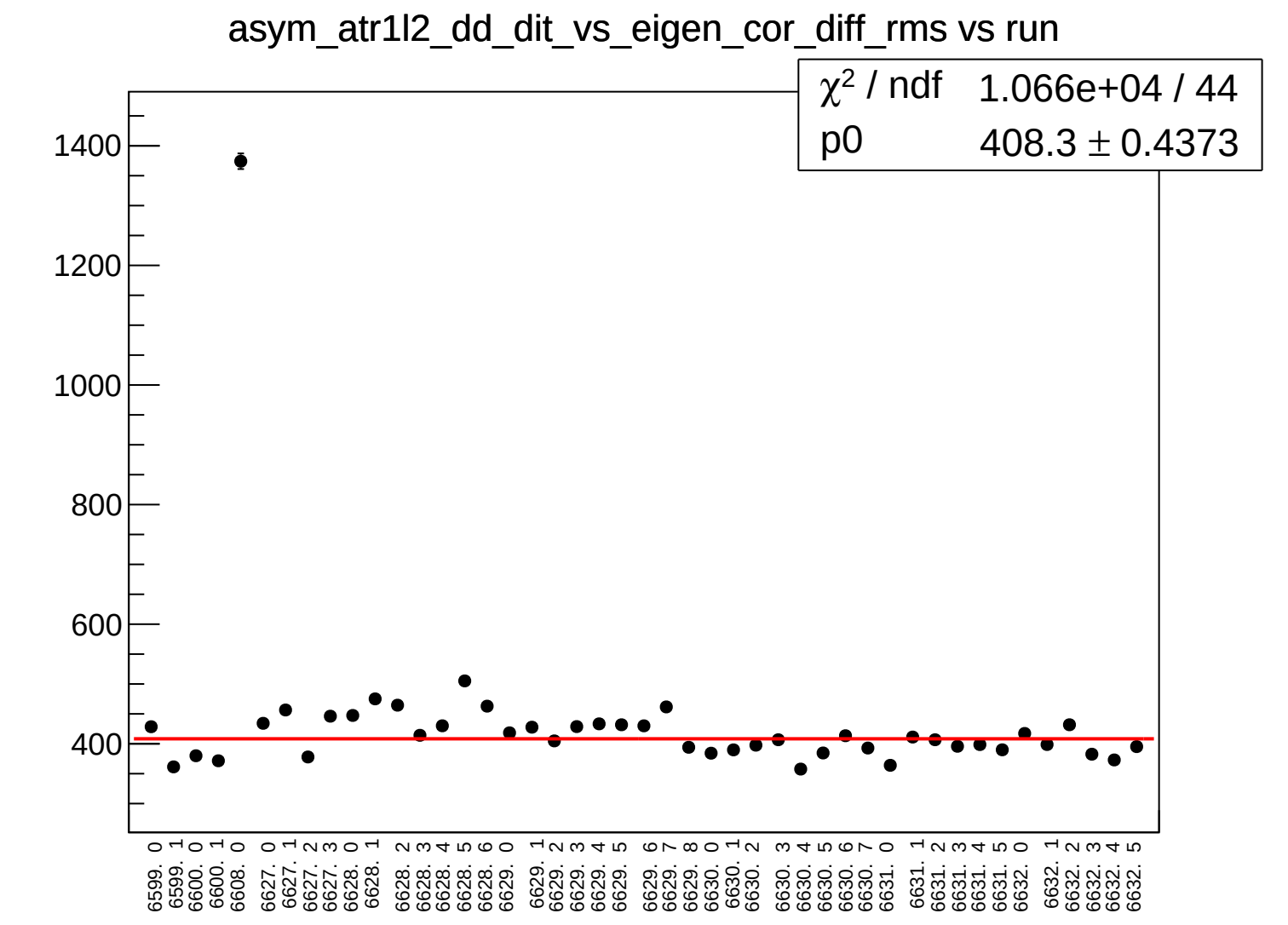

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.244e+05 / 44
p0 6.134e−11 ± 1.025e−13
1
0.8
0.6
0.4
0.2
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

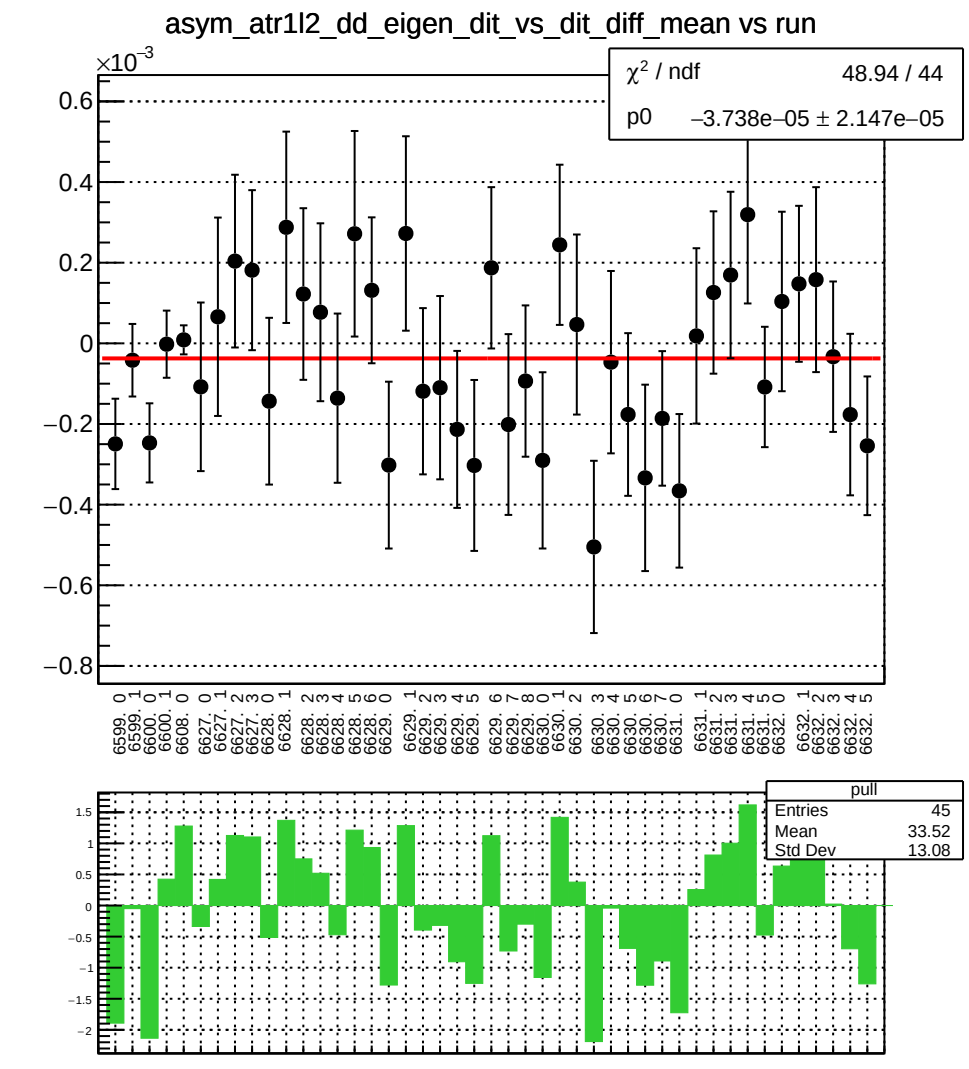

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 65.09 / 44
p0 −1.072 ± 0.6184
pull
Entries 45
Mean −43.95
Std Dev 0

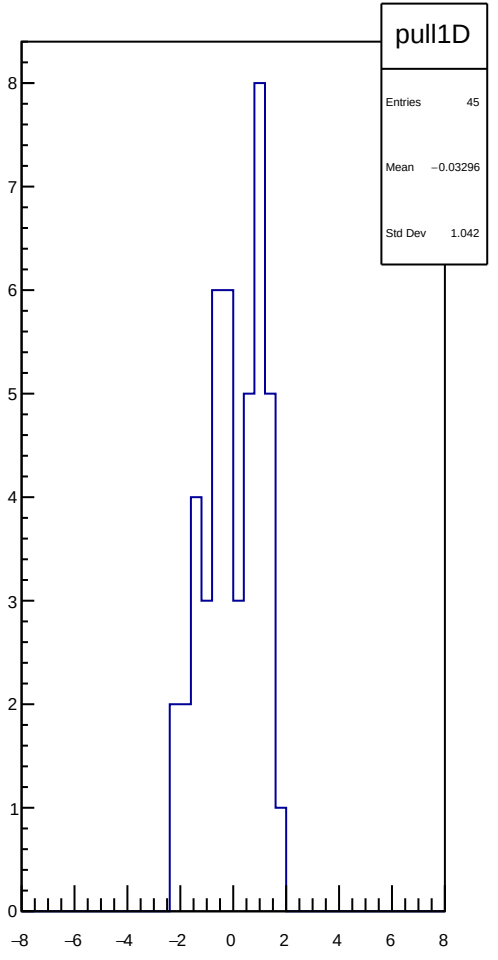

pull1D
Entries 45
Mean 0.01681
Std Dev 1.203

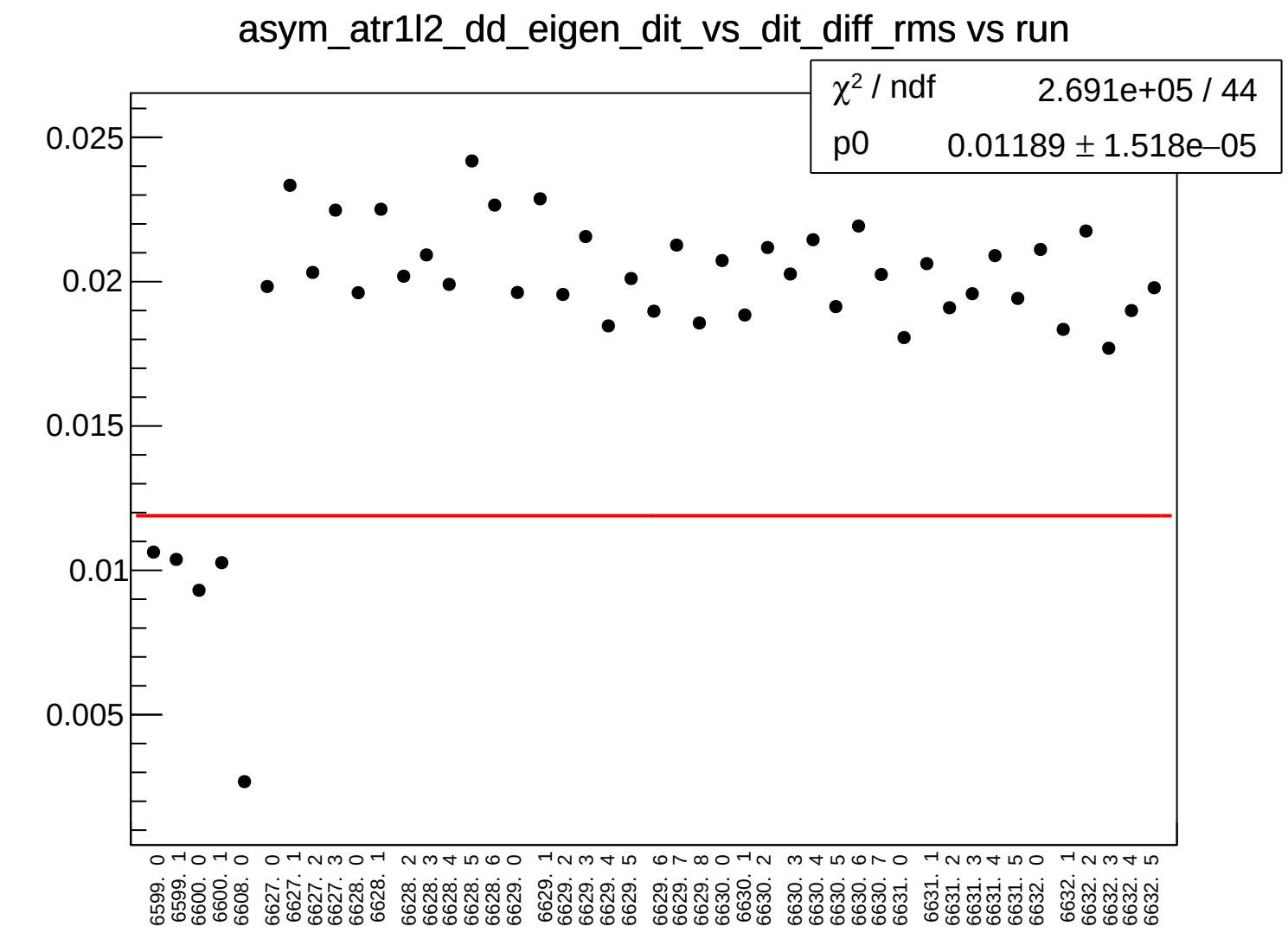

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.066e+04 / 44
p0 408.3 ± 0.4373
1400
1200
1000
800
600
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

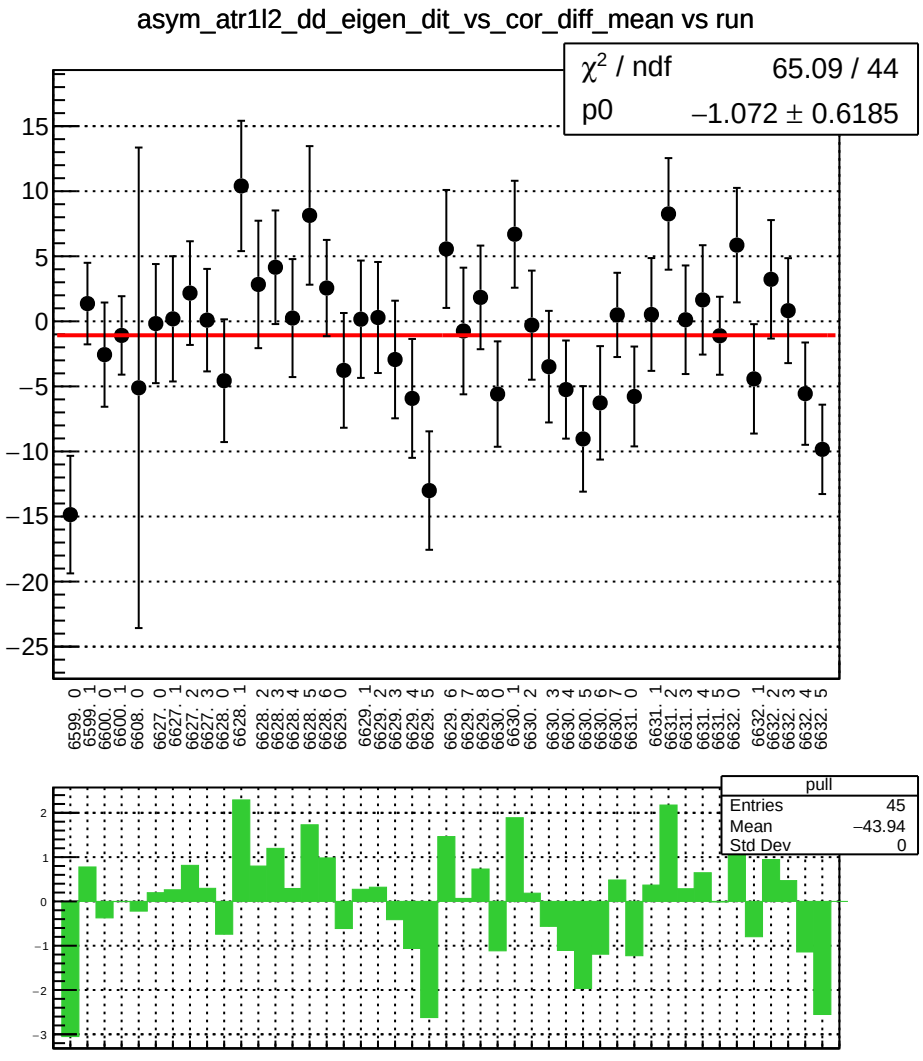

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.09 / 44
p0 −1.072 ± 0.6184
pull
Entries 45
Mean −43.95
Std Dev 0
pull1D
Entries 45
Mean 0.01681
Std Dev 1.203

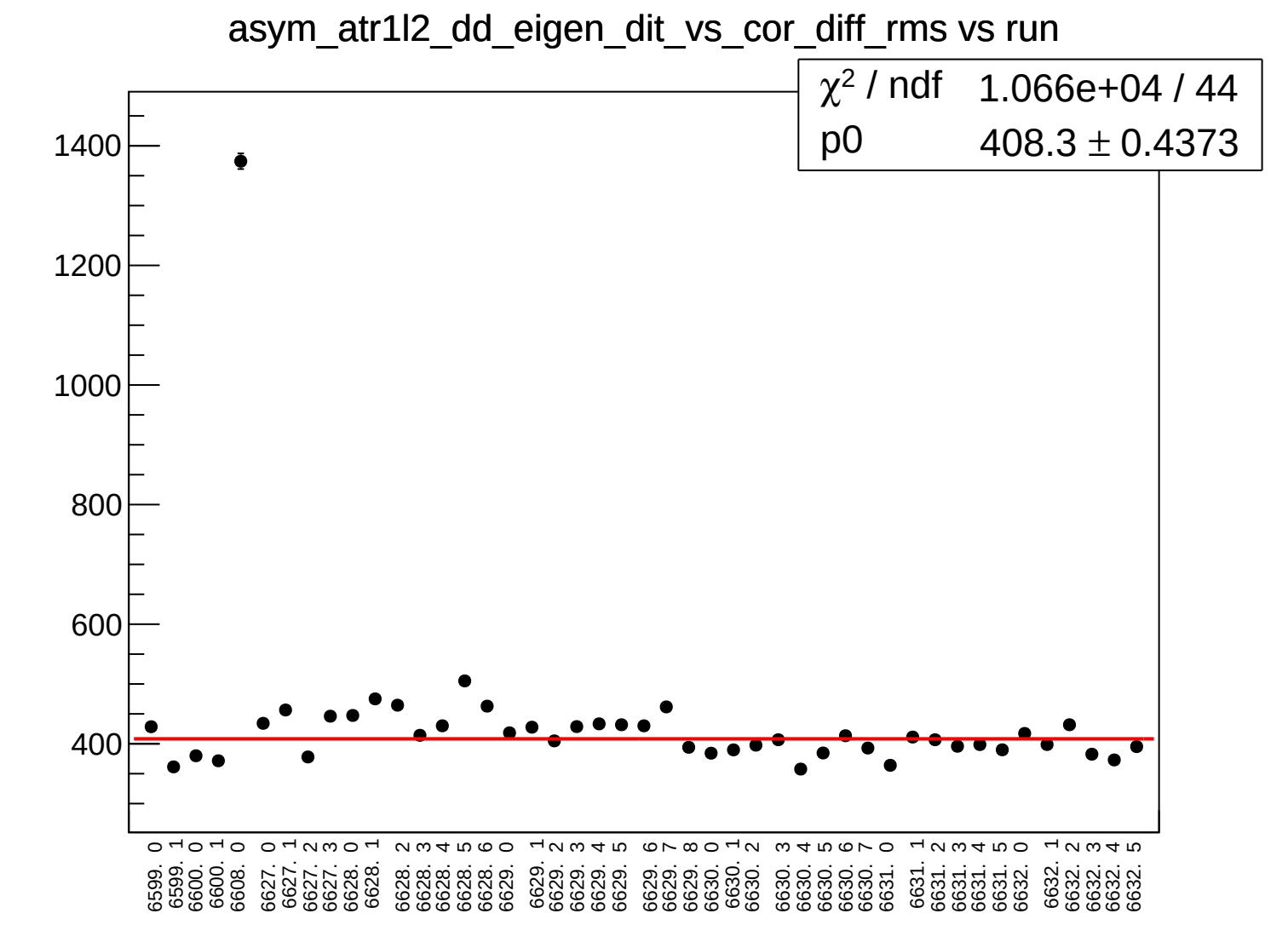

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.066e+04 / 44
p0 408.3 ± 0.4373
1400
1200
1000
800
600
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

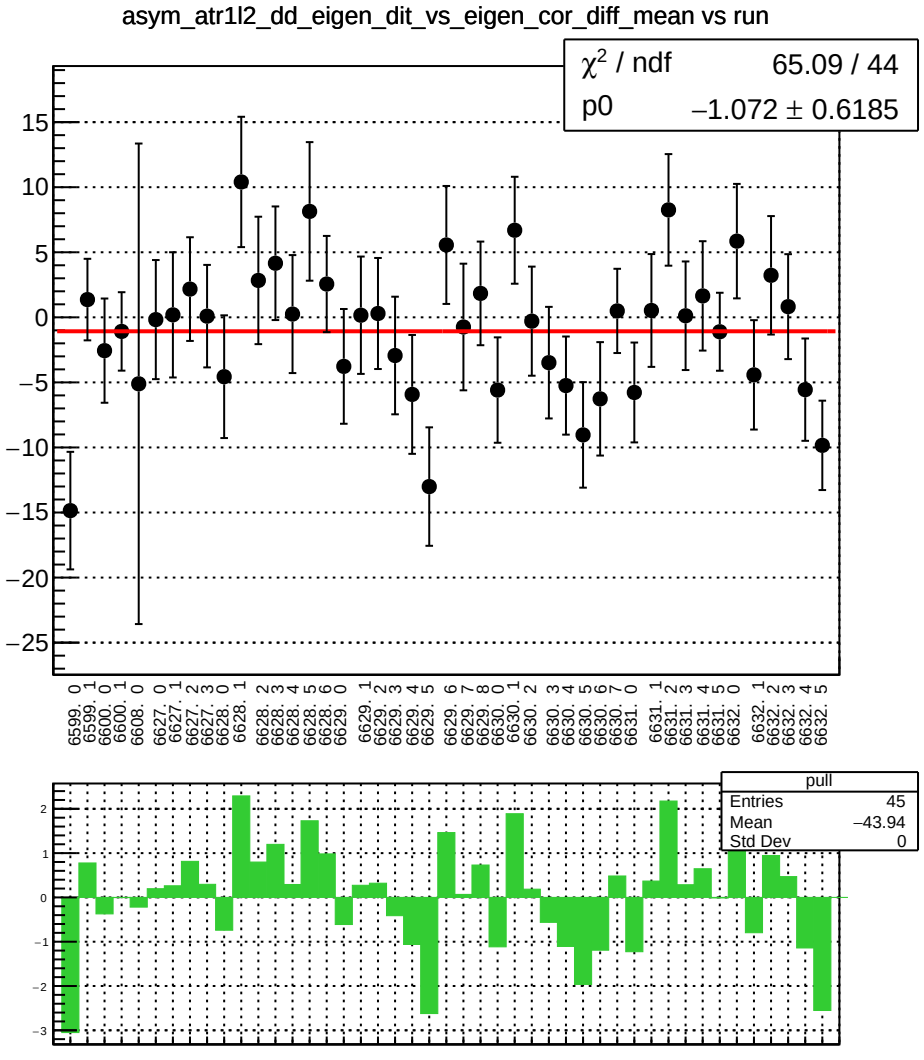

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 48.94 / 44
p0 −3.738e−05 ± 2.147e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 33.52
Std Dev 13.08
1.5
1
0.5
0
−0.5
−1
−1.5
−2

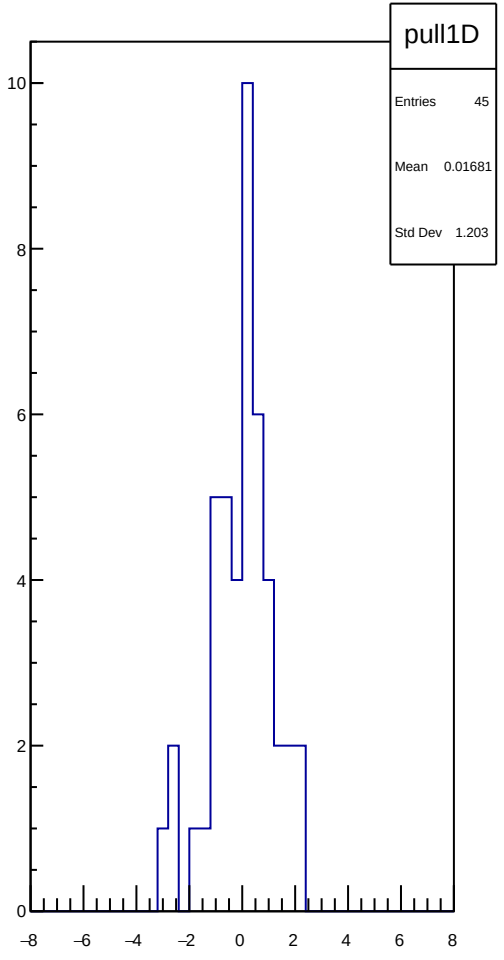

pull1D
Entries 45
Mean −0.03296
Std Dev 1.042
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

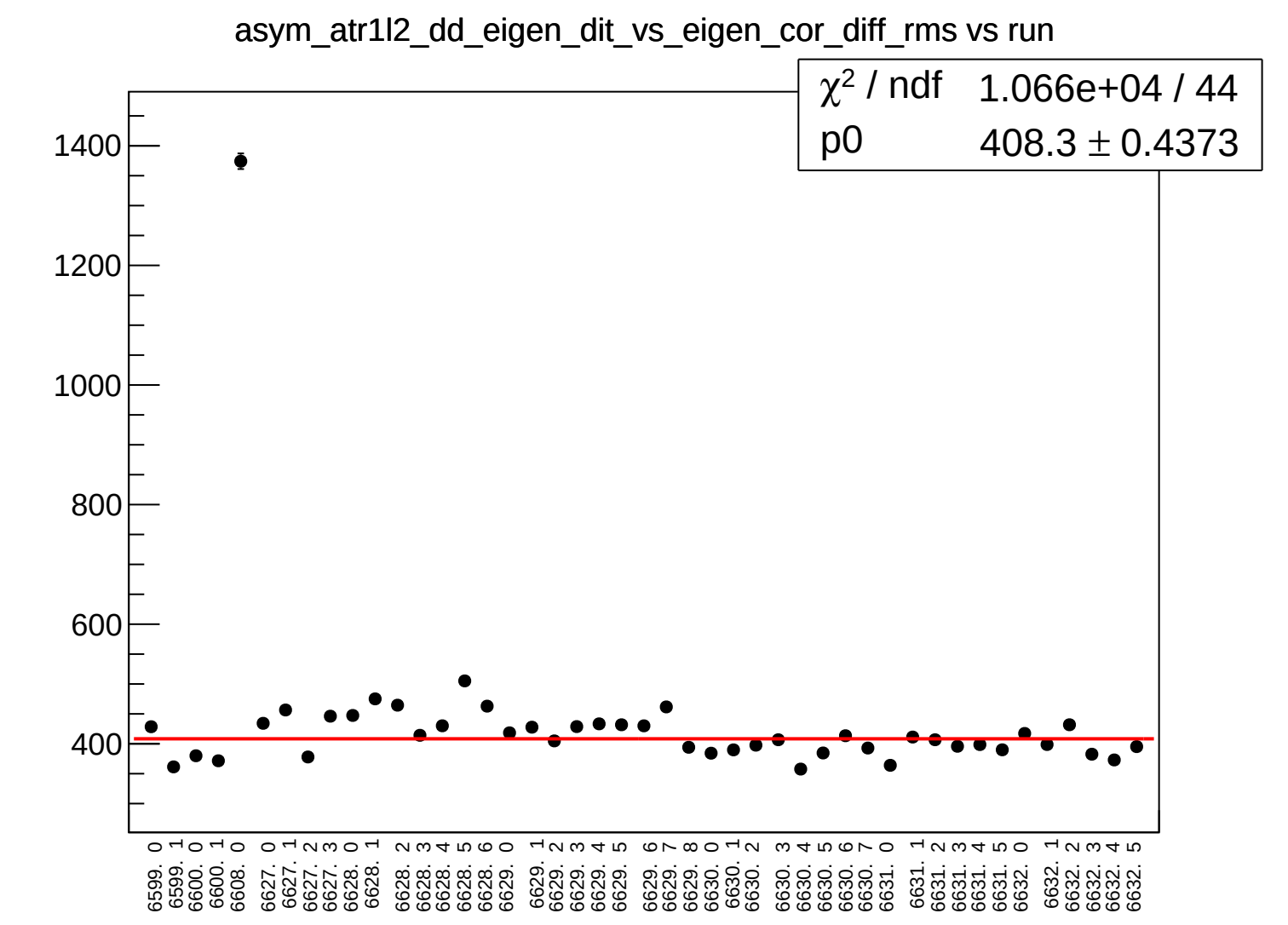

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.691e+05 / 44
p0 0.01189 ± 1.518e–05
0.025
0.02
0.015
0.01
0.005
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65.09 / 44
p0 −1.072 ± 0.6185
pull
Entries 45
Mean −43.94
Std Dev 0
pull1D
Entries 45
Mean 0.01681
Std Dev 1.203


asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.066e+04 / 44
p0 408.3 ± 0.4373
1400
1200
1000
800
600
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.09 / 44
p0 −1.072 ± 0.6185
pull
Entries 45
Mean −43.94
Std Dev 0


pull1D
Entries 45
Mean 0.01681
Std Dev 1.203


asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.066e+04 / 44
p0 408.3 ± 0.4373
1400
1200
1000
800
600
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
6632. 0
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6632. 2
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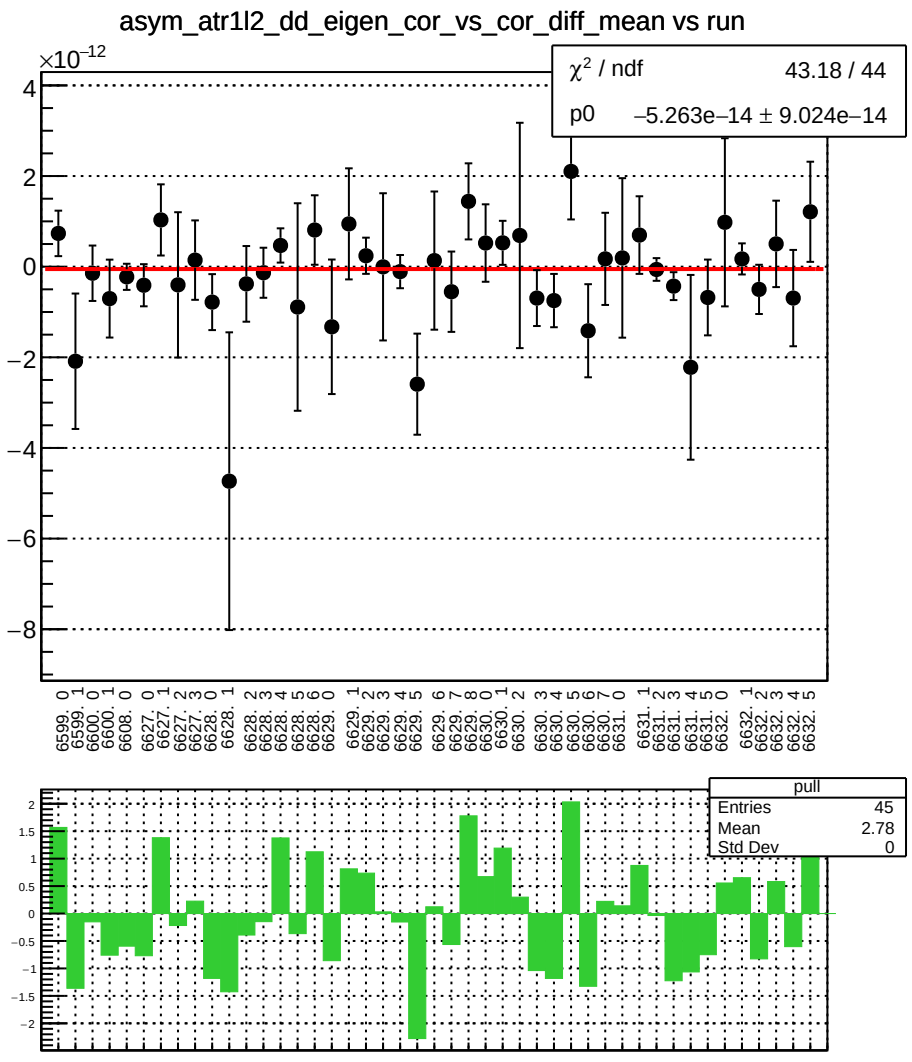
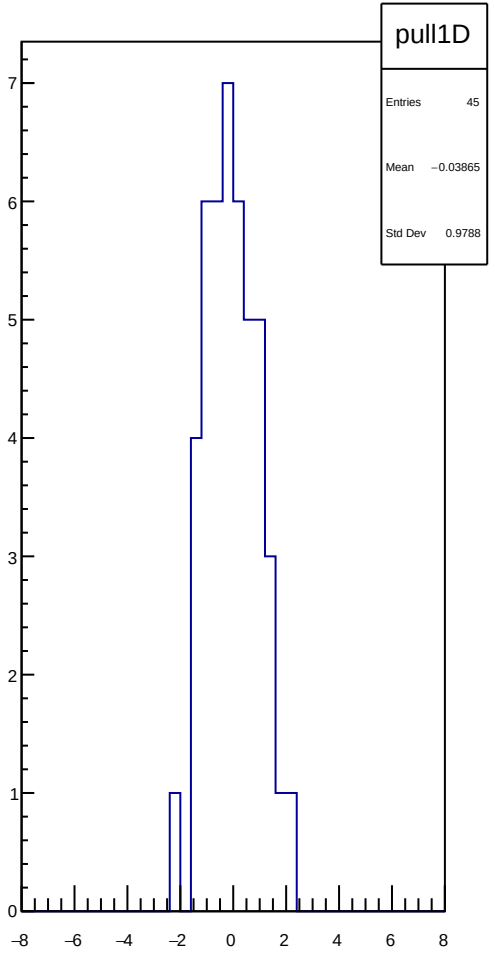
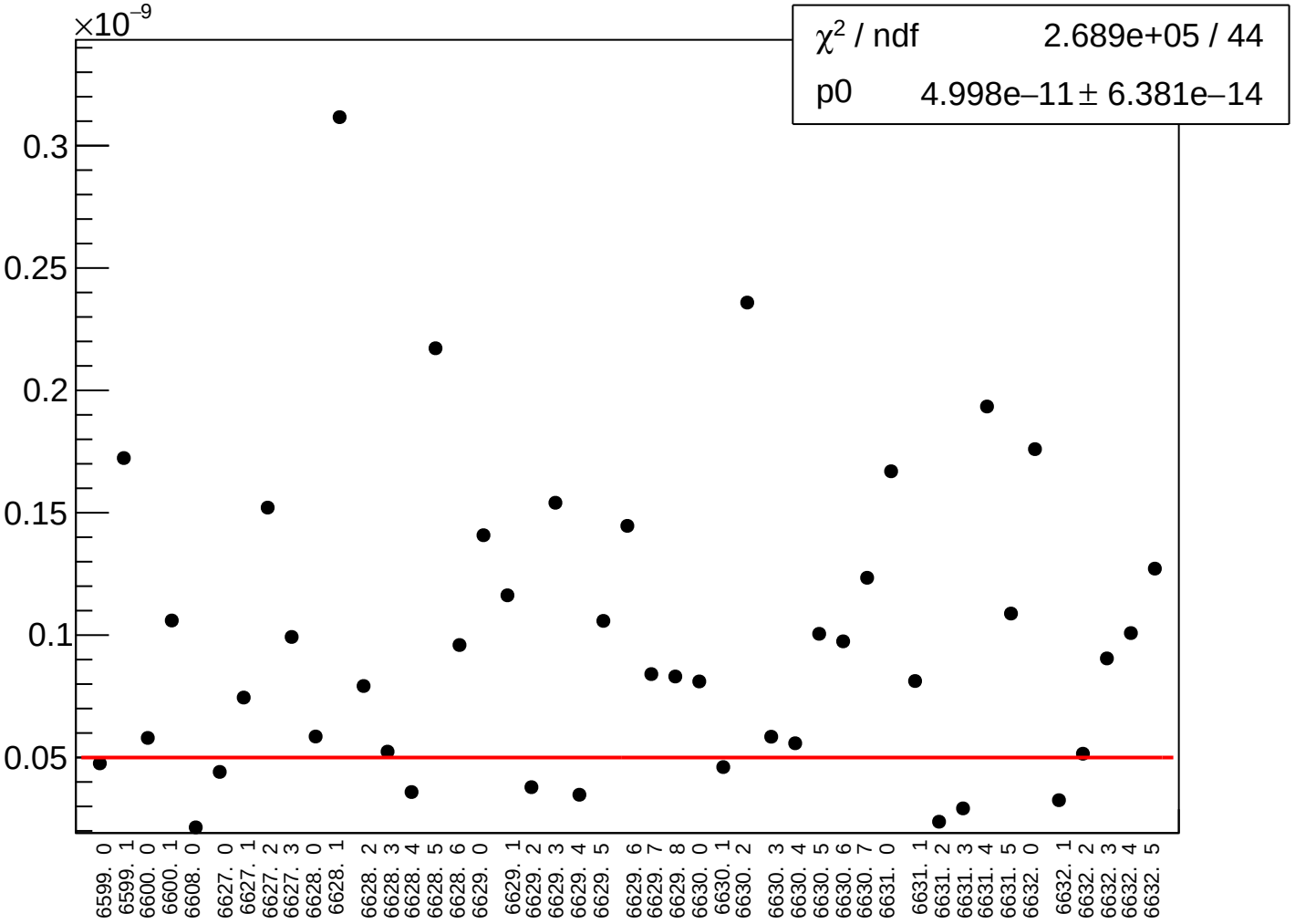
6632. 4
6632. 5


asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 43.18 / 44
p0 −5.263e−14 ± 9.024e−14
pull
Entries 45
Mean 2.78
Std Dev 0


pull1D
Entries 45
Mean −0.03865
Std Dev 0.9788


asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.689e+05 / 44
p0 4.998e−11 ± 6.381e−14
0.3
0.25
0.2
0.15
0.1
0.05
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
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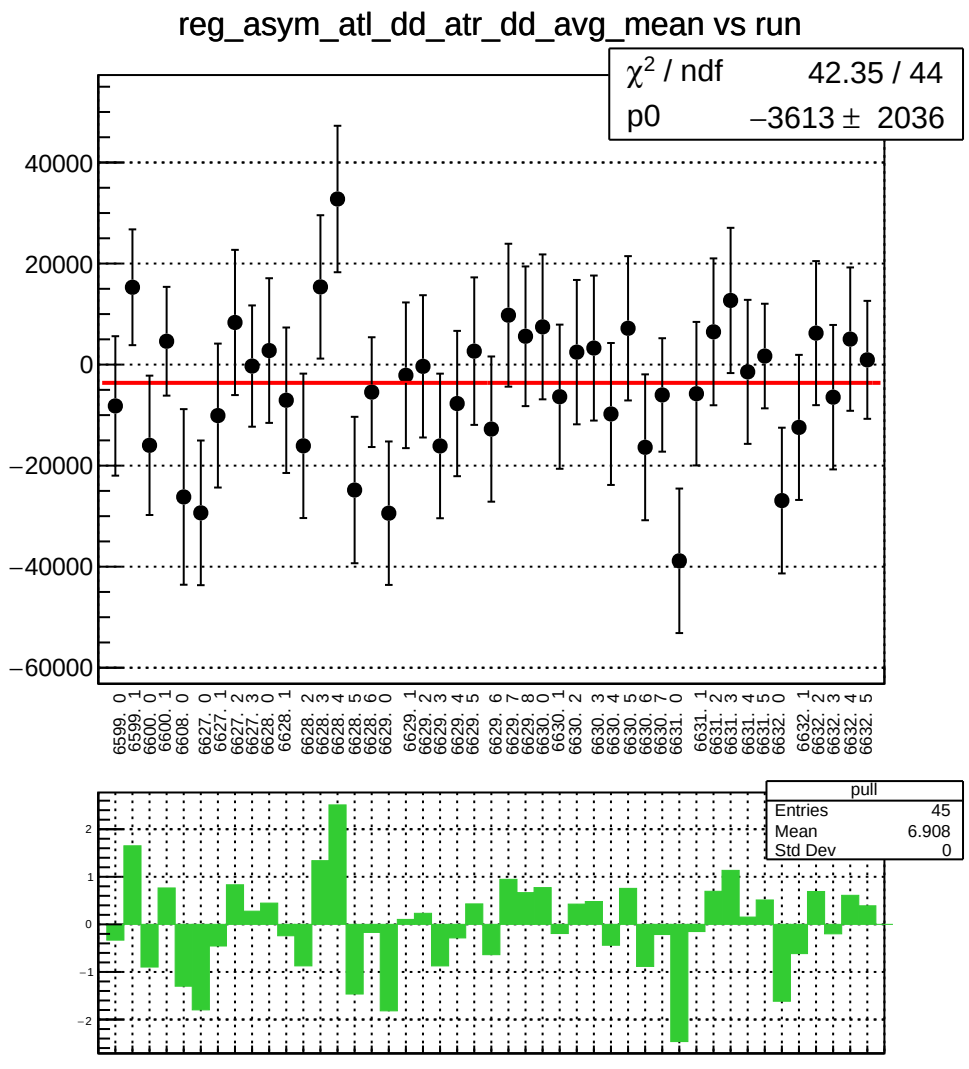
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 42.35 / 44
p0 −3613 ± 2036
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
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6629. 7
6629. 8
6630. 0
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6630. 2
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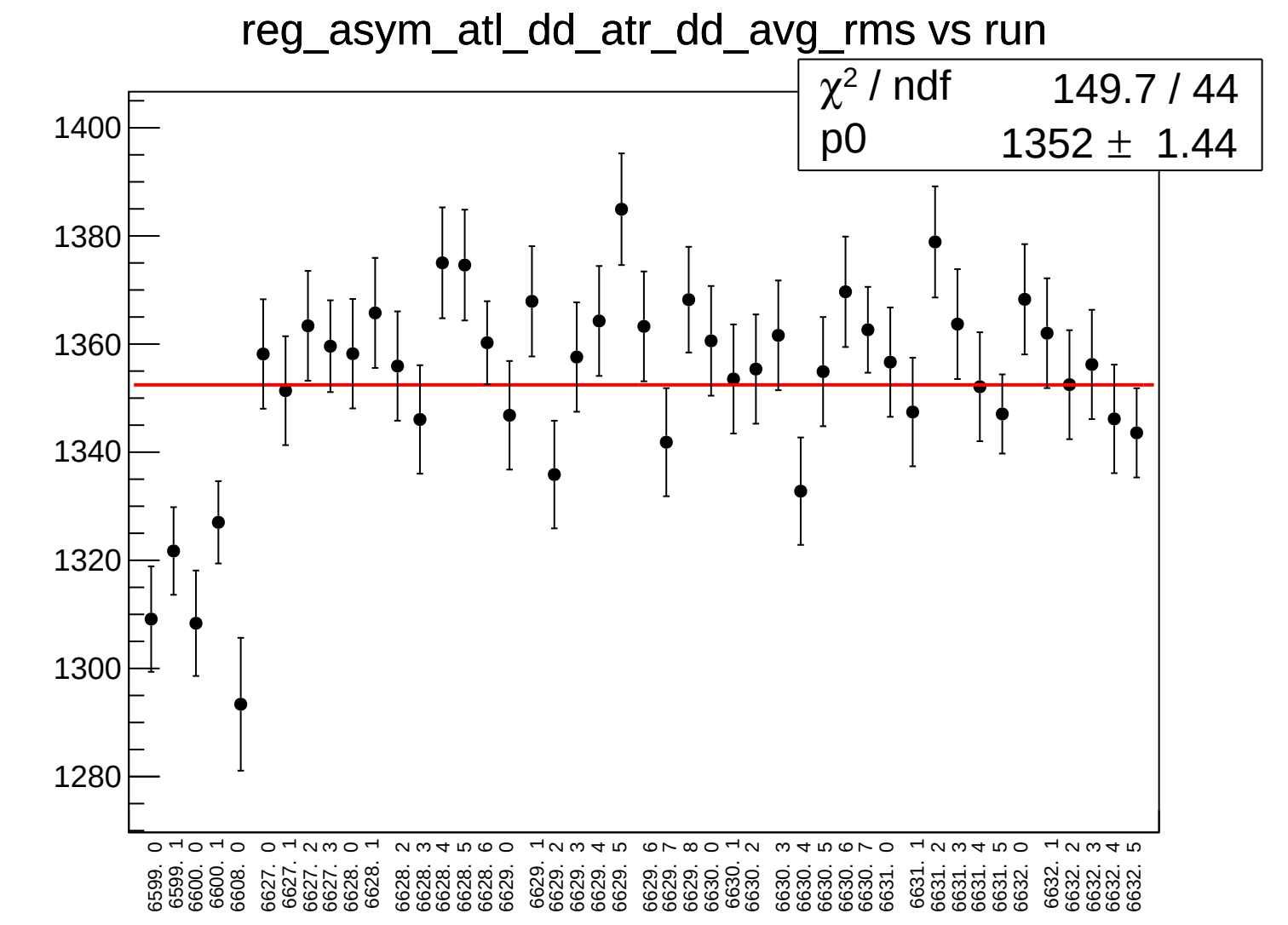
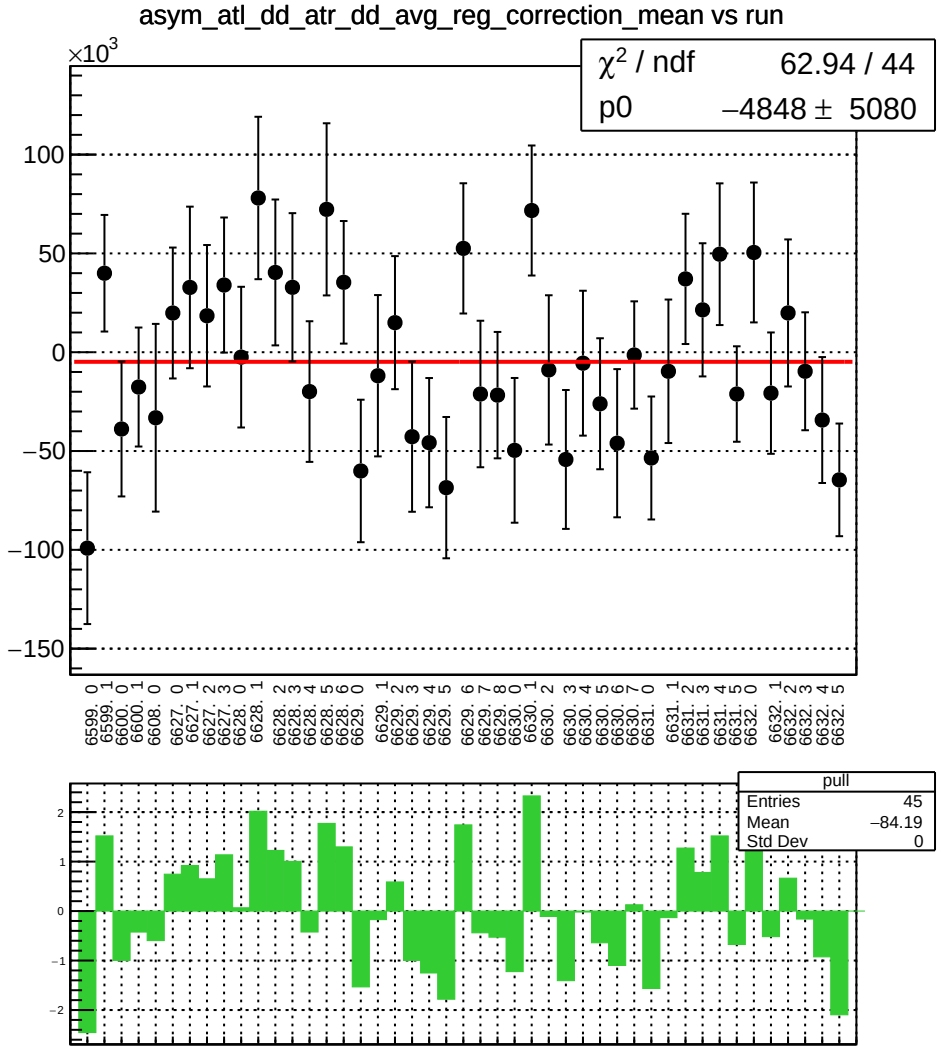
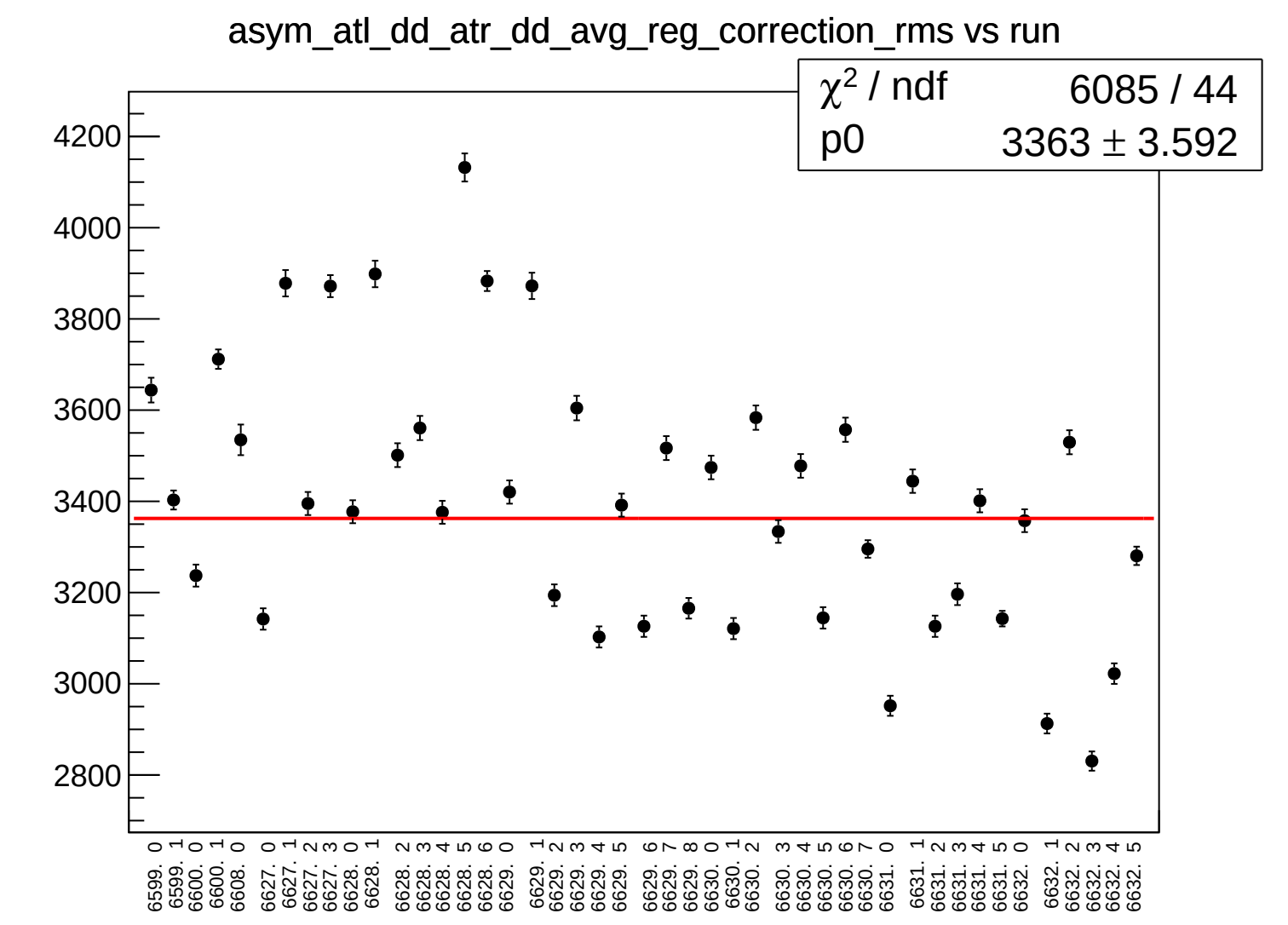
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 6.908
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02411
Std Dev 0.9698
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 149.7 / 44
p0 1352 ± 1.44
1400
1380
1360
1340
1320
1300
1280
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 62.94 / 44
p0 −4848 ± 5080
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −84.19
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01712
Std Dev 1.183
8
7
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 6085 / 44
p0 3363 ± 3.592
4200
4000
3800
3600
3400
3200
3000
2800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
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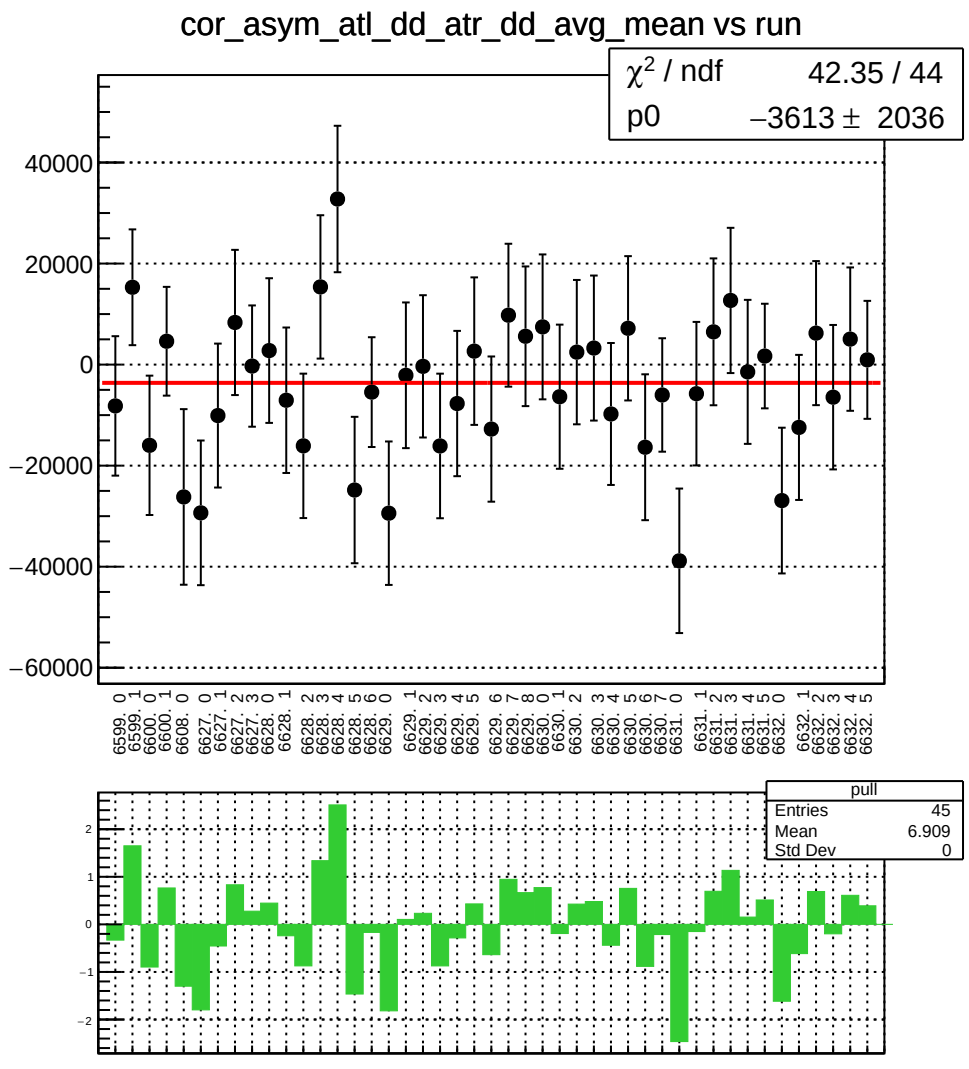
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 42.35 / 44
p0 −3613 ± 2036
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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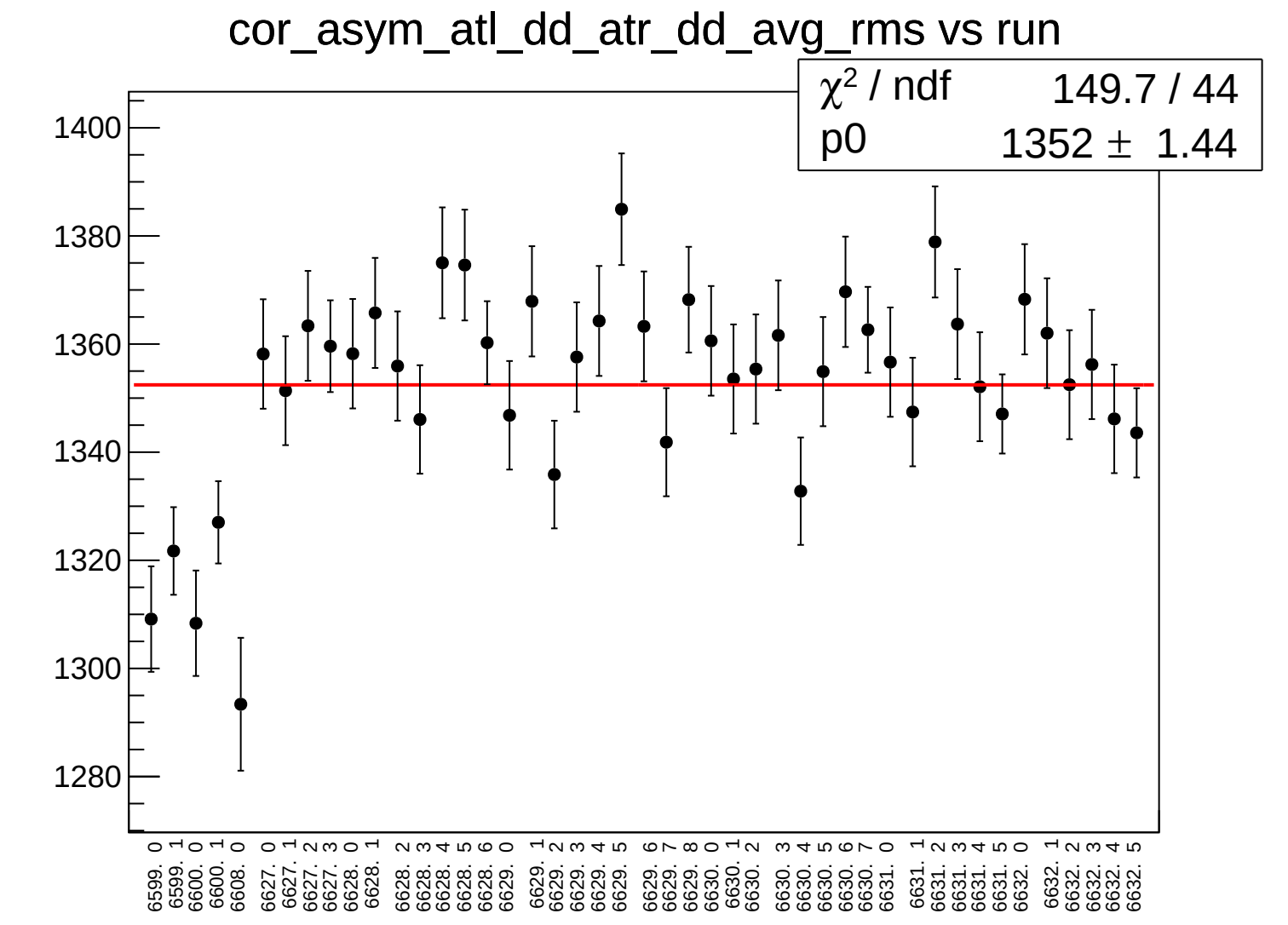
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 6.909
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02411
Std Dev 0.9698
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 149.7 / 44
p0 1352 ± 1.44
1400
1380
1360
1340
1320
1300
1280
6599. 0
6599. 1
6600. 0
6600. 1
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6627. 0
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6627. 3
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6628. 2
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6632. 2
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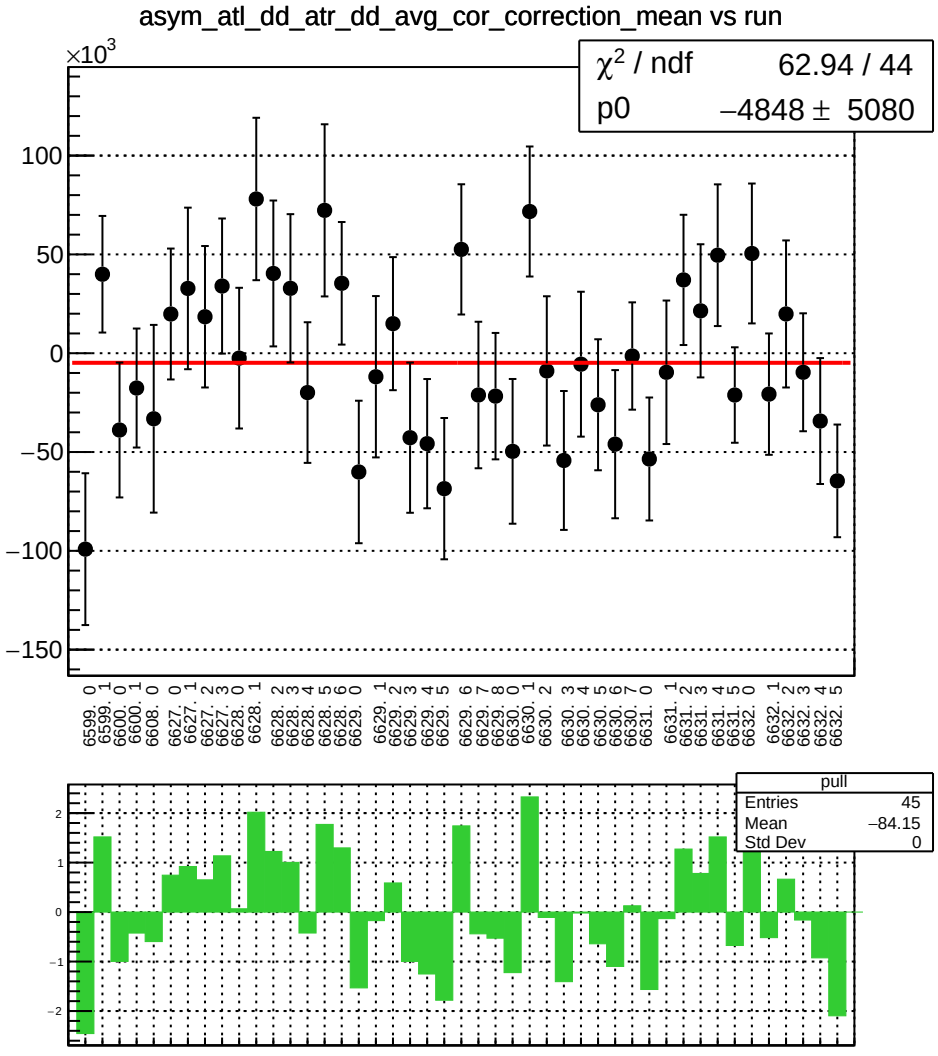
6632. 4
6632. 5


asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 62.94 / 44
p0 −4848 ± 5080
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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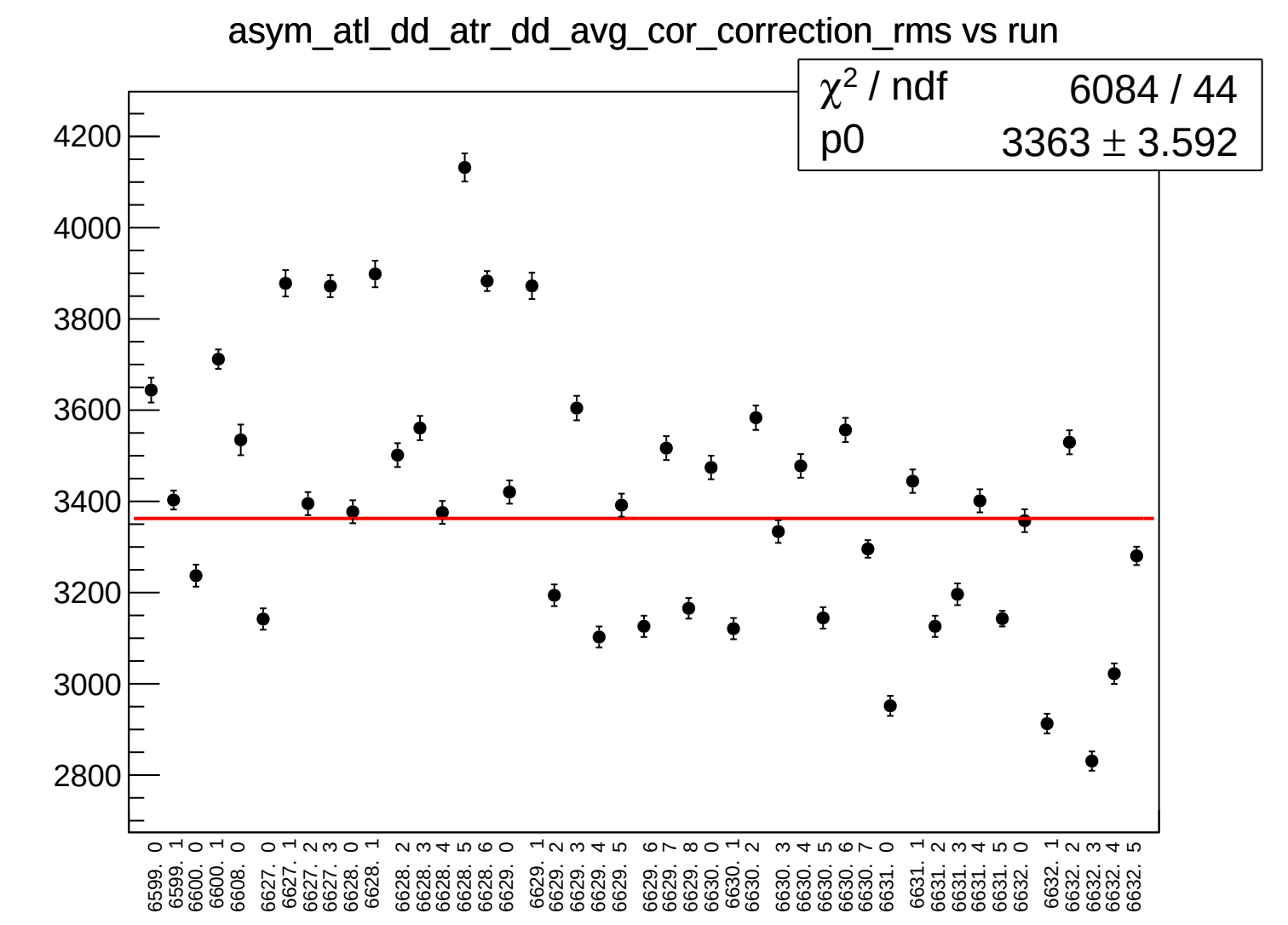
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −84.15
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01713
Std Dev 1.183
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 6084 / 44
p0 3363 ± 3.592
4200
4000
3800
3600
3400
3200
3000
2800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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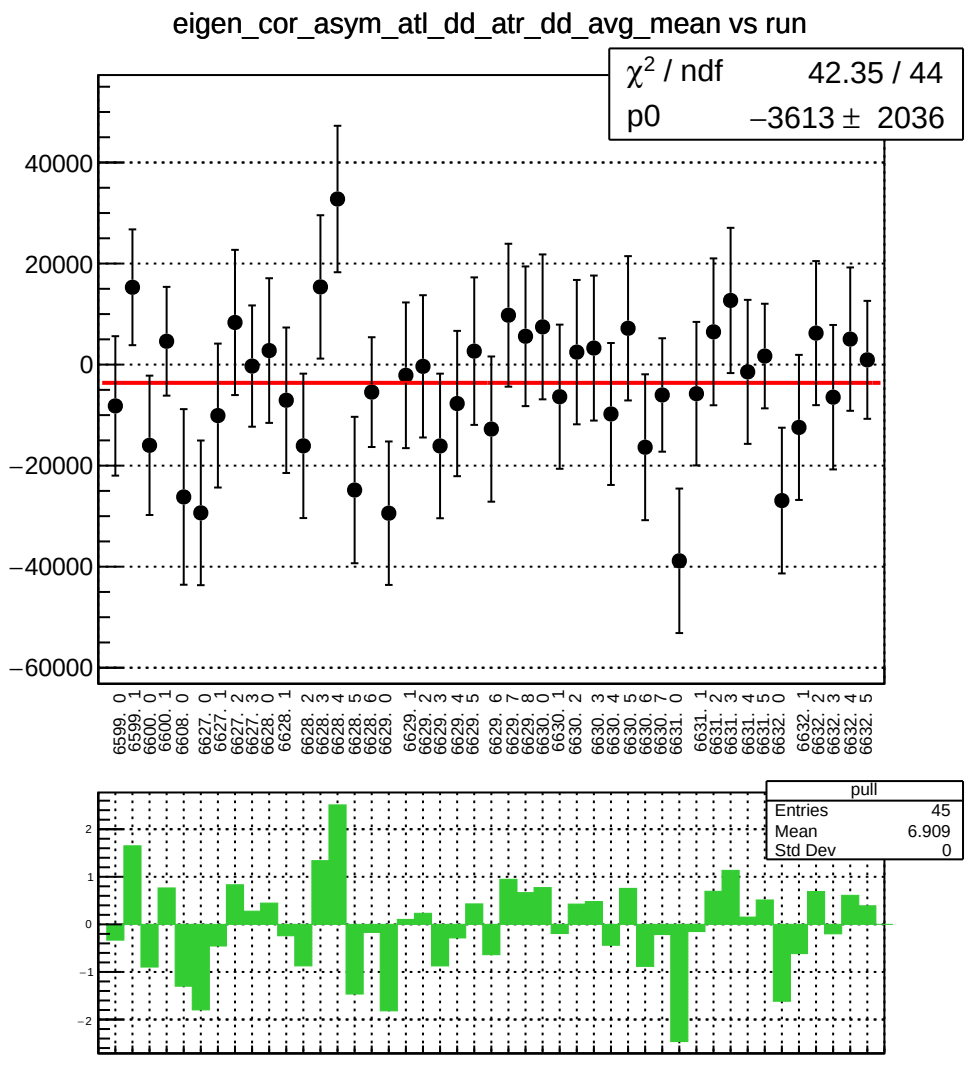
6632. 5


eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 42.35 / 44
p0 −3613 ± 2036
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6630. 0
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6630. 5
6630. 6
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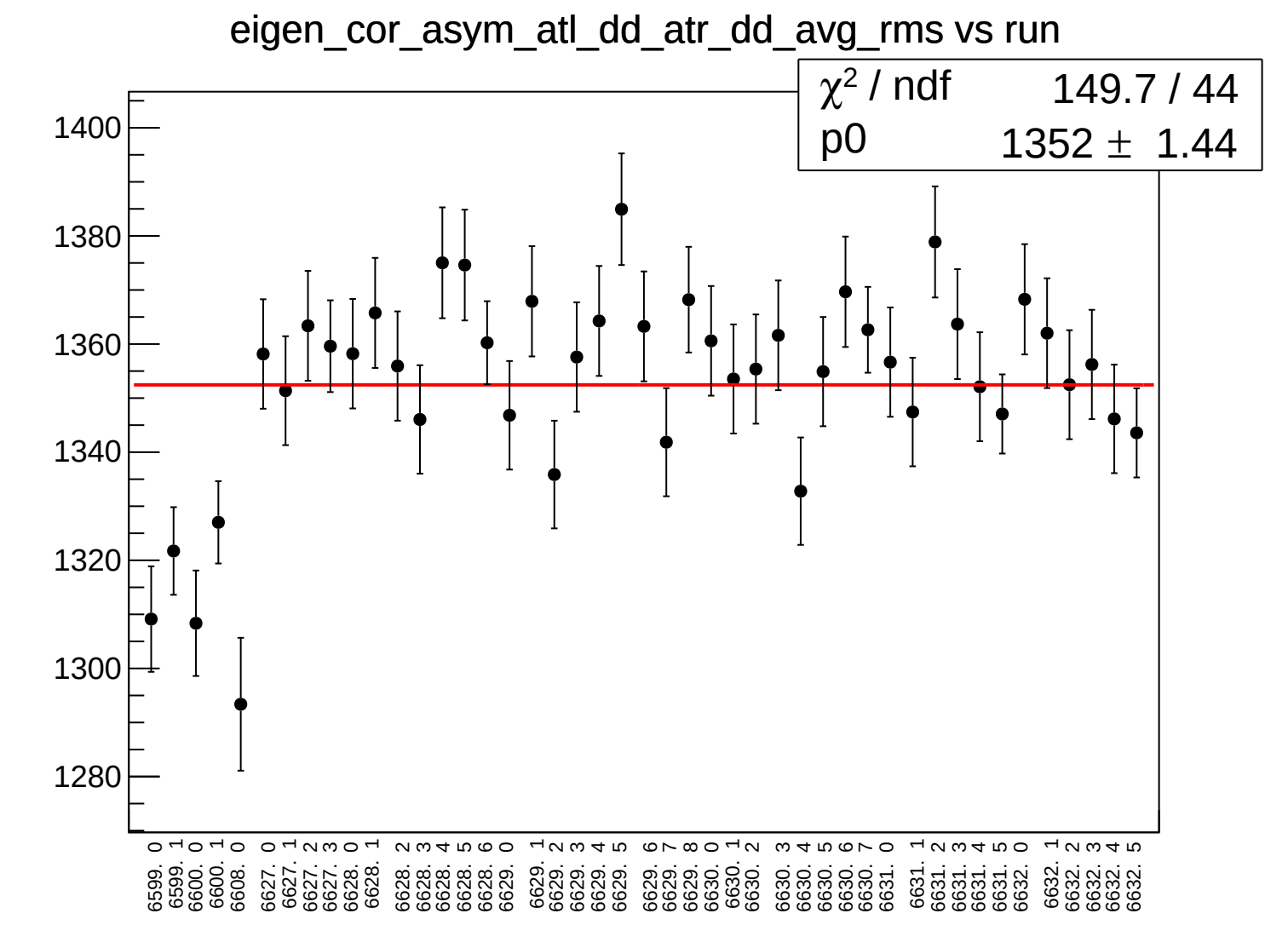
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 6.909
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02411
Std Dev 0.9698
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 149.7 / 44
p0 1352 ± 1.44
1400
1380
1360
1340
1320
1300
1280
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6632. 2
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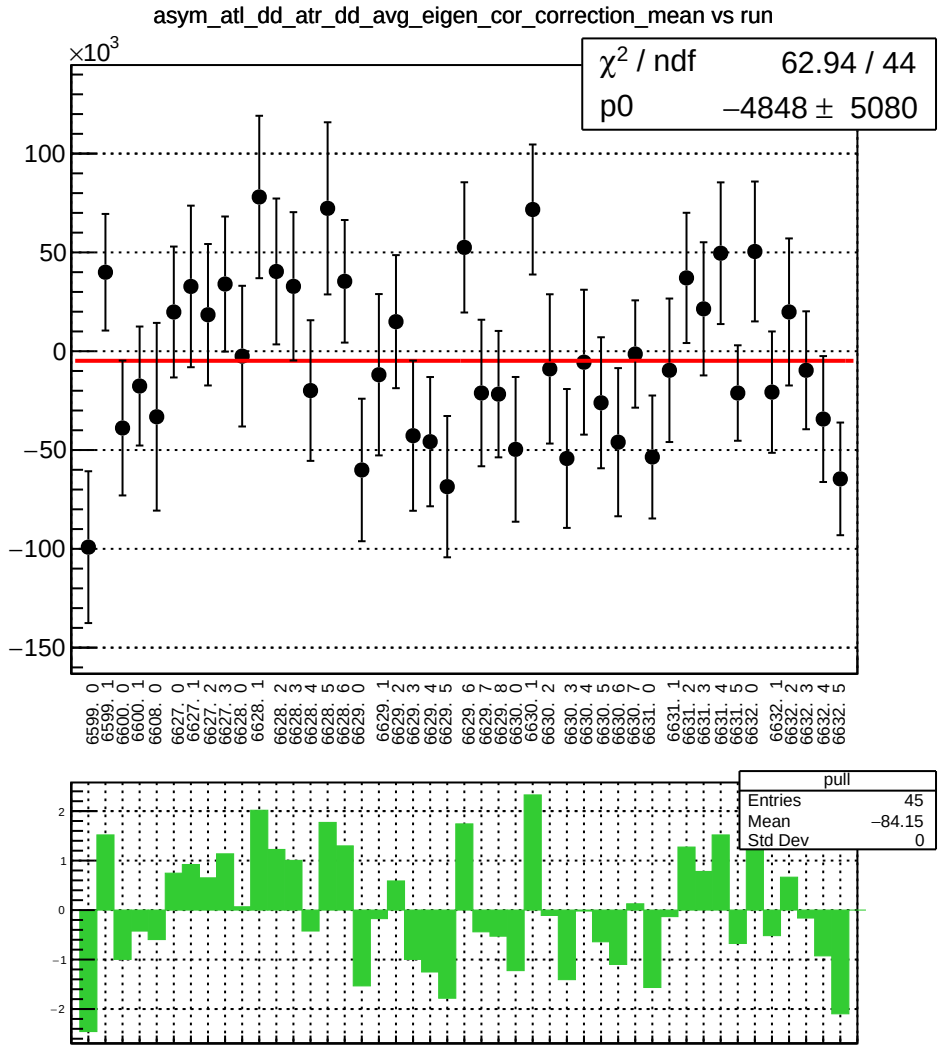
6632. 4
6632. 5


asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 62.94 / 44
p0 −4848 ± 5080
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
6629. 3
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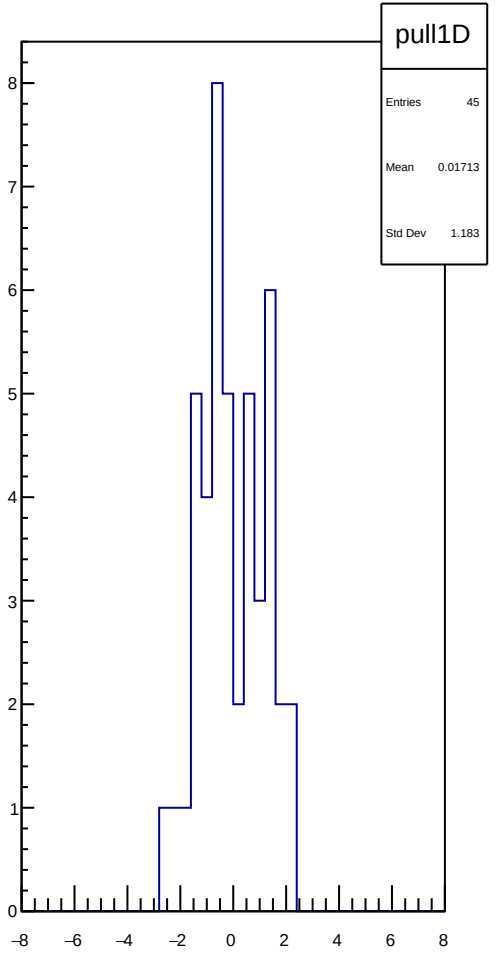
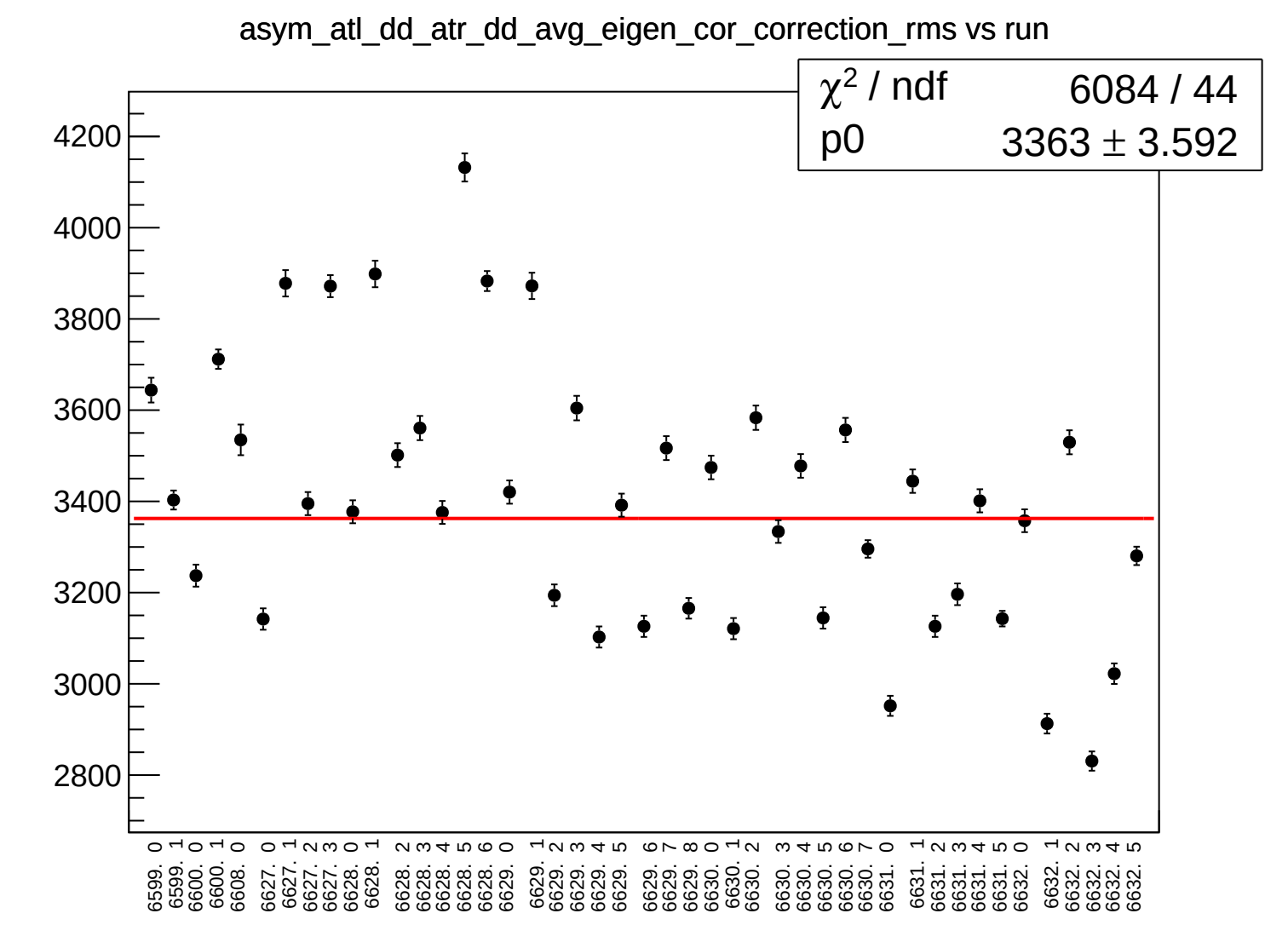
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −84.15
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.01713
Std Dev 1.183
8
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_correction_rms vs run
χ² / ndf 6084 / 44
p0 3363 ± 3.592
4200
4000
3800
3600
3400
3200
3000
2800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
6632. 0
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6632. 2
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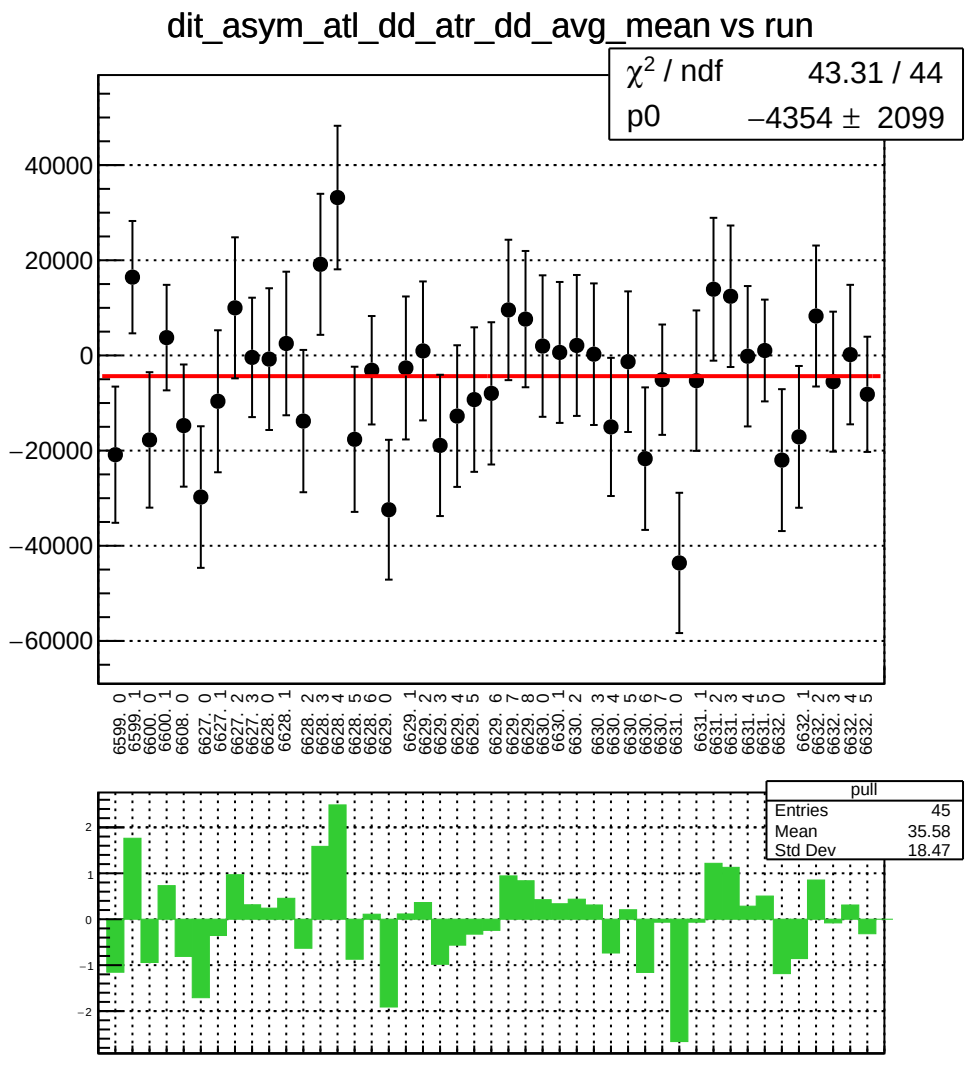
6632. 4
6632. 5


dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 43.31 / 44
p0 −4354 ± 2099
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
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6627. 3
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6629. 2
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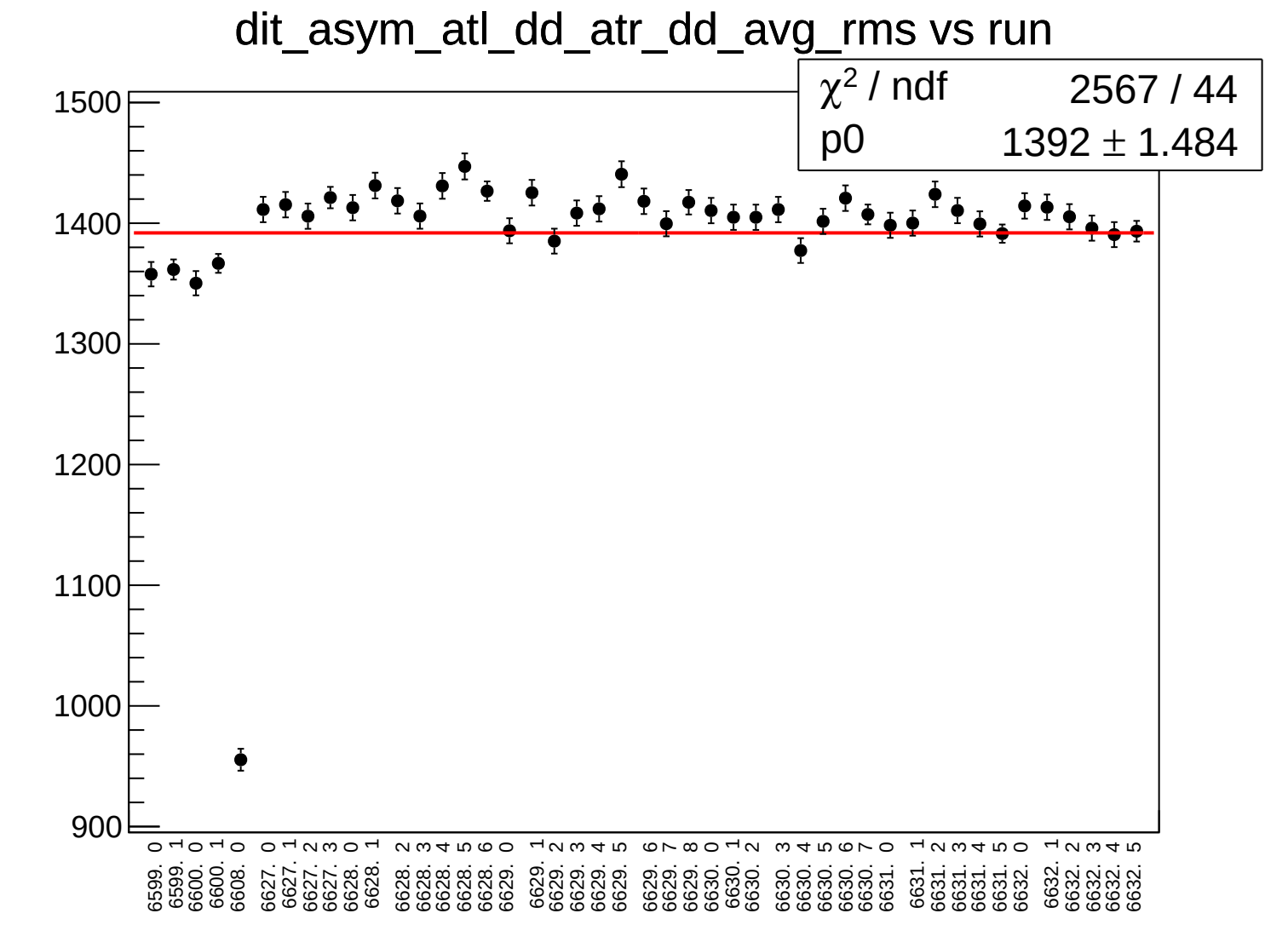
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 35.58
Std Dev 18.47
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01524
Std Dev 0.9809
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 2567 / 44
p0 1392 ± 1.484
1500
1400
1300
1200
1100
1000
900
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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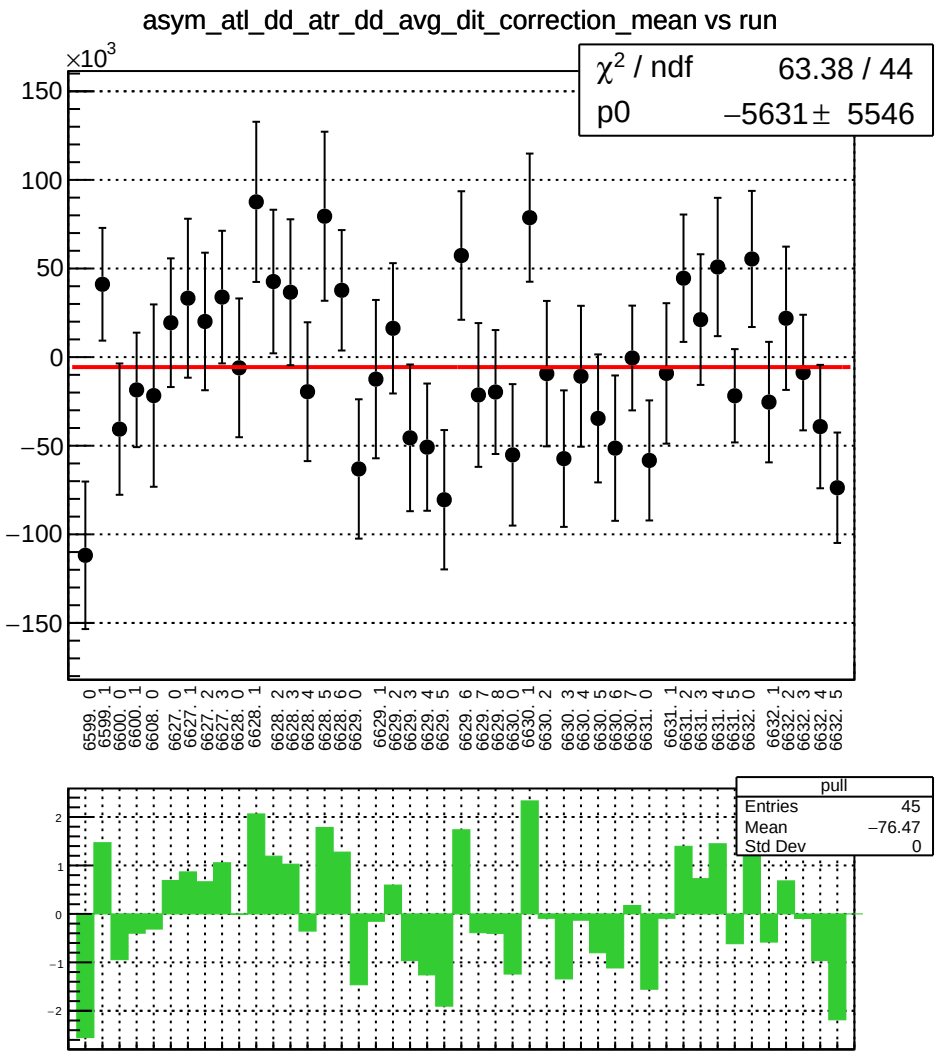
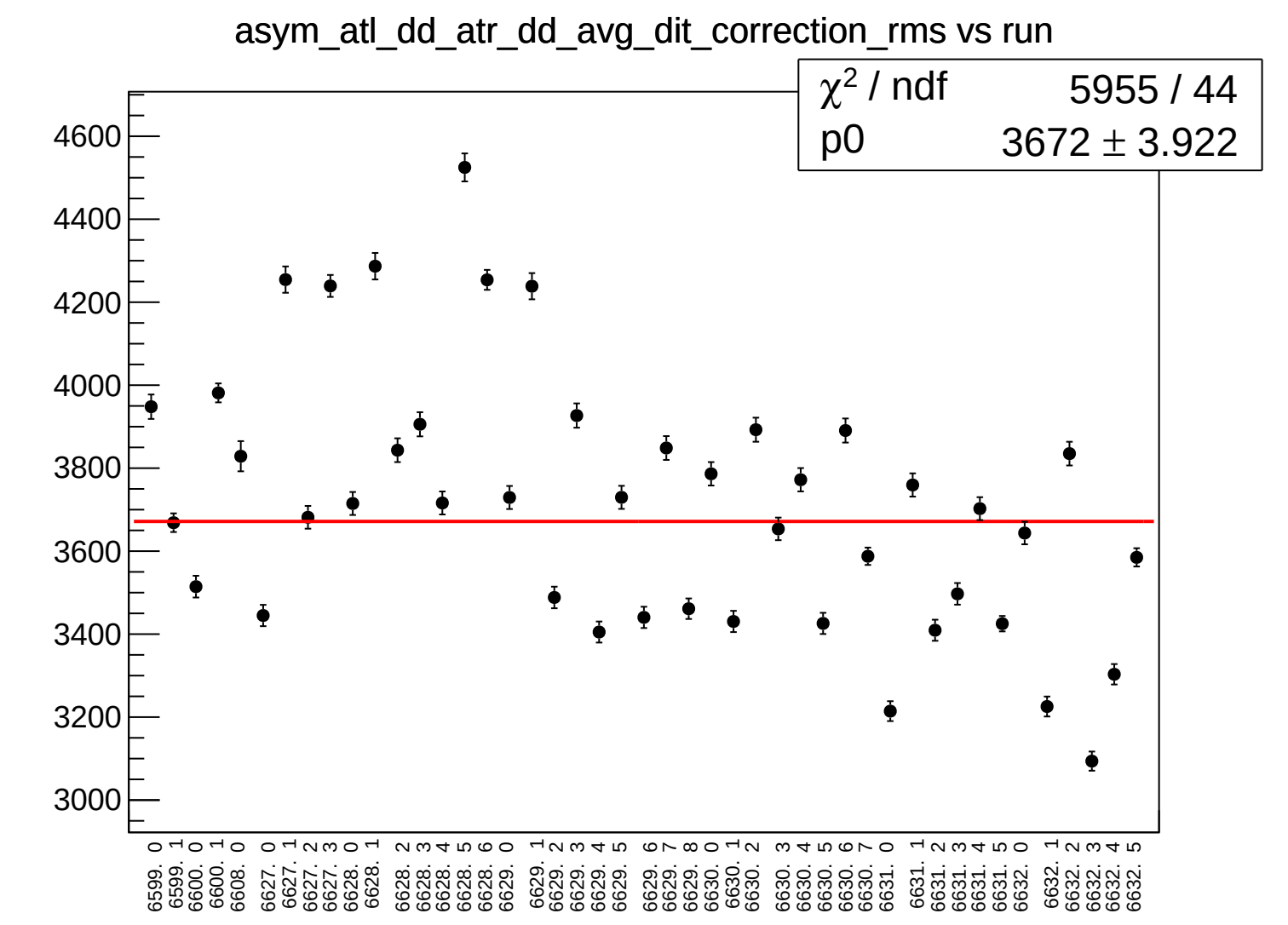

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 63.38 / 44
p0 −5631 ± 5546
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −76.47
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01906
Std Dev 1.187
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 5955 / 44
p0 3672 ± 3.922
4600
4400
4200
4000
3800
3600
3400
3200
3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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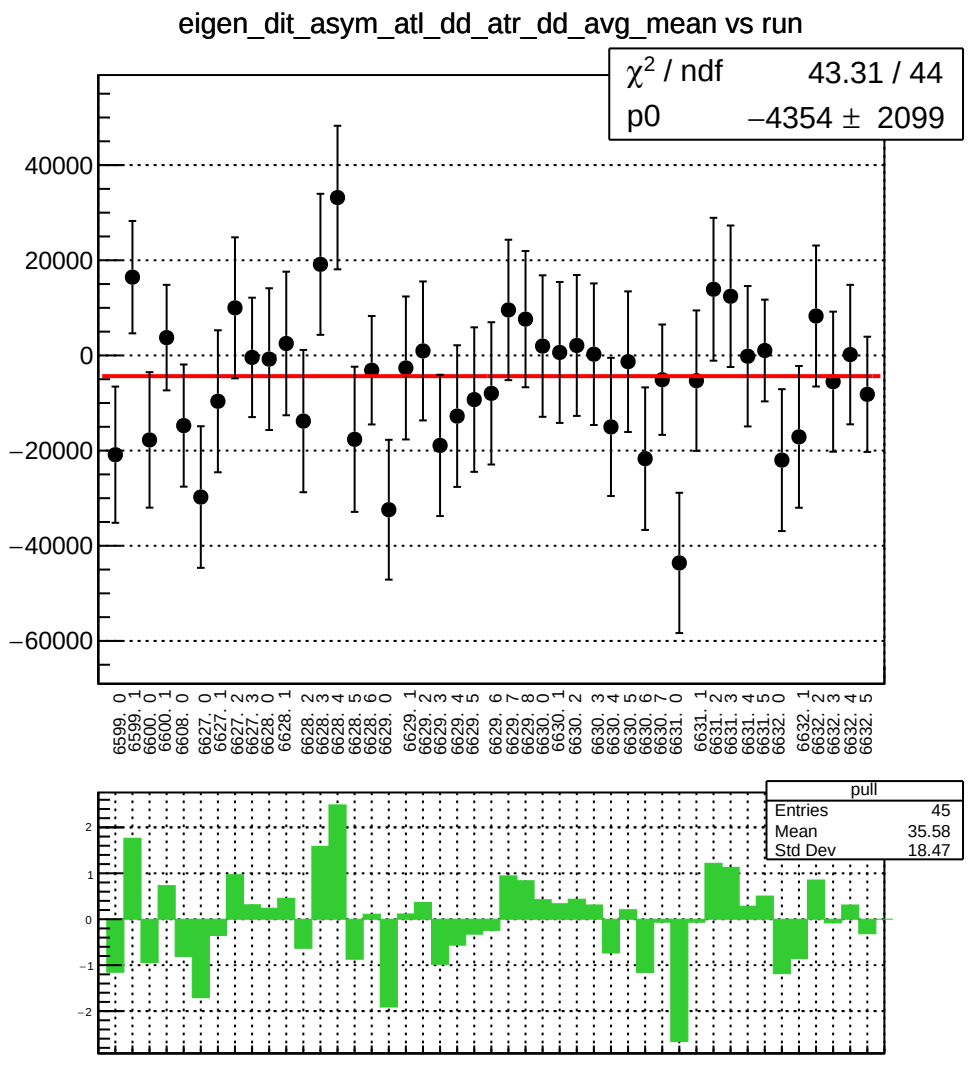
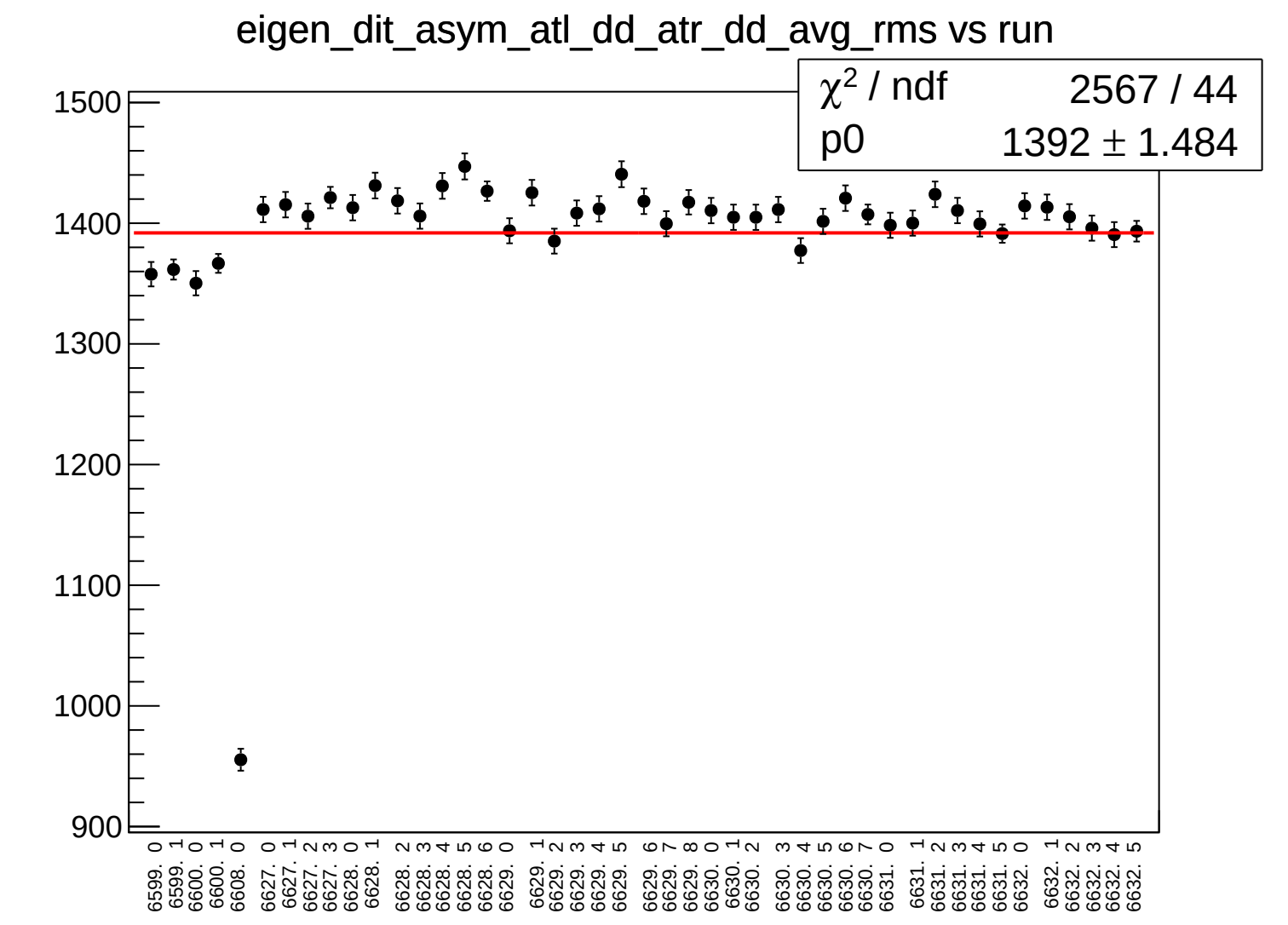
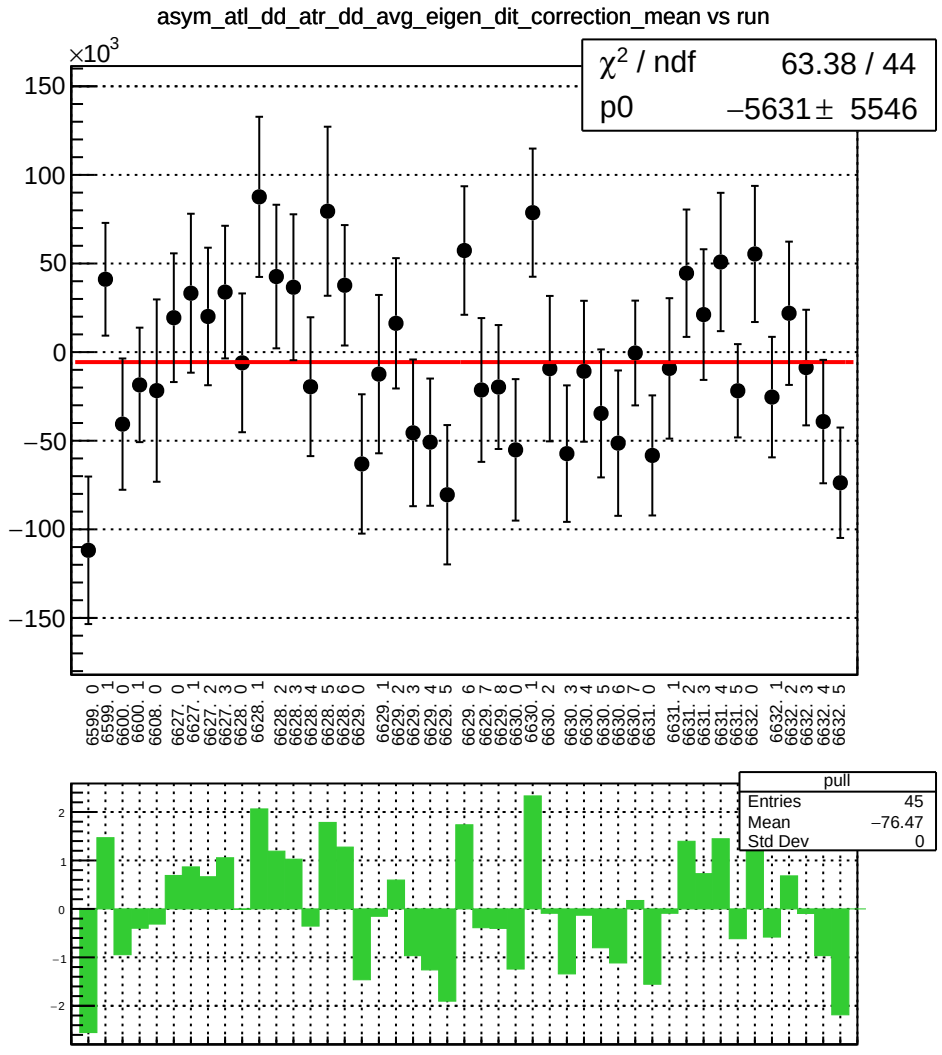
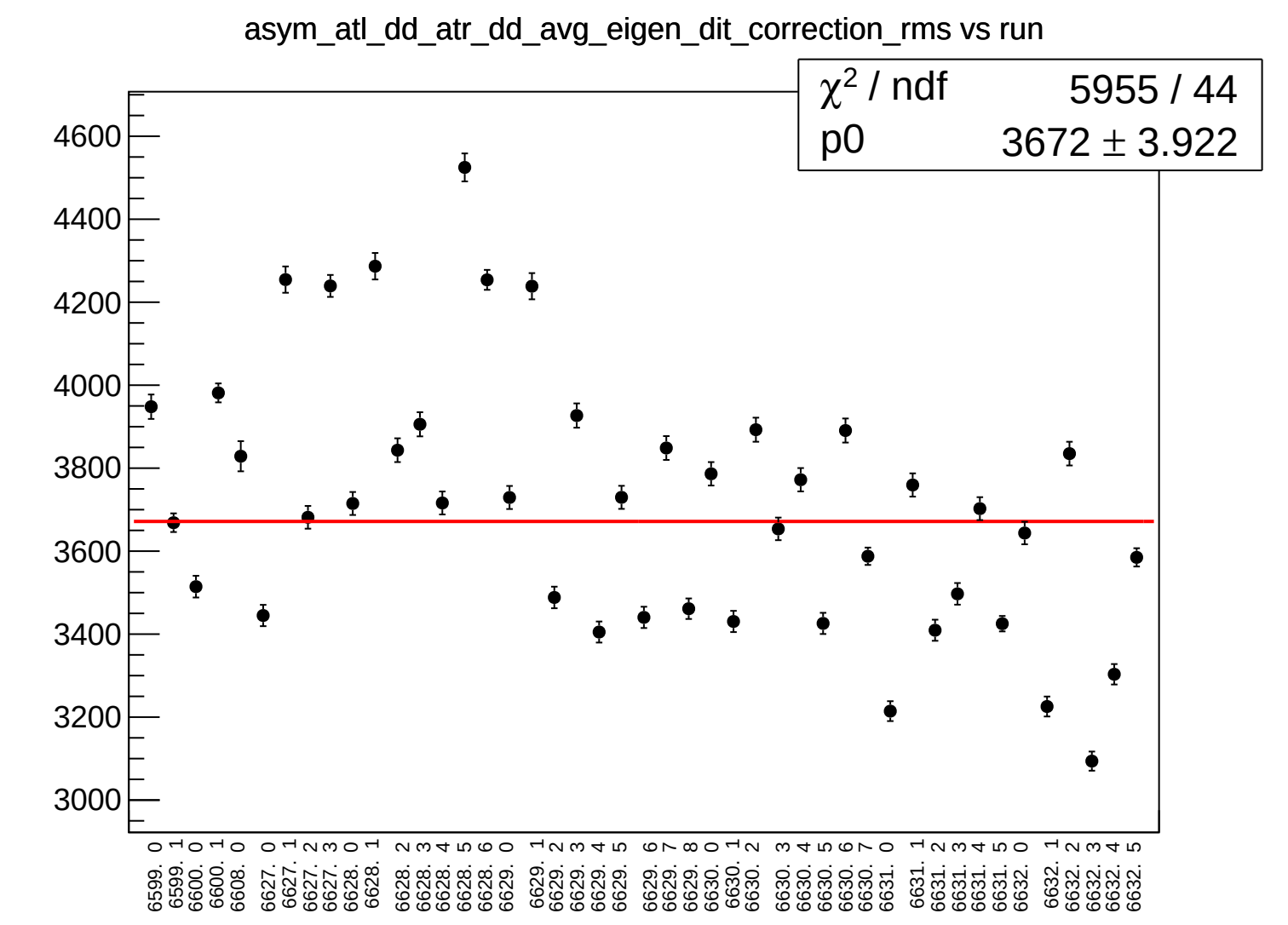
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 43.31 / 44
p0 −4354 ± 2099
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 35.58
Std Dev 18.47
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01524
Std Dev 0.9809
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 2567 / 44
p0 1392 ± 1.484
1500
1400
1300
1200
1100
1000
900
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 63.38 / 44
p0 −5631 ± 5546
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −76.47
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01906
Std Dev 1.187
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5955 / 44
p0 3672 ± 3.922
4600
4400
4200
4000
3800
3600
3400
3200
3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
6632. 0
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6632. 2
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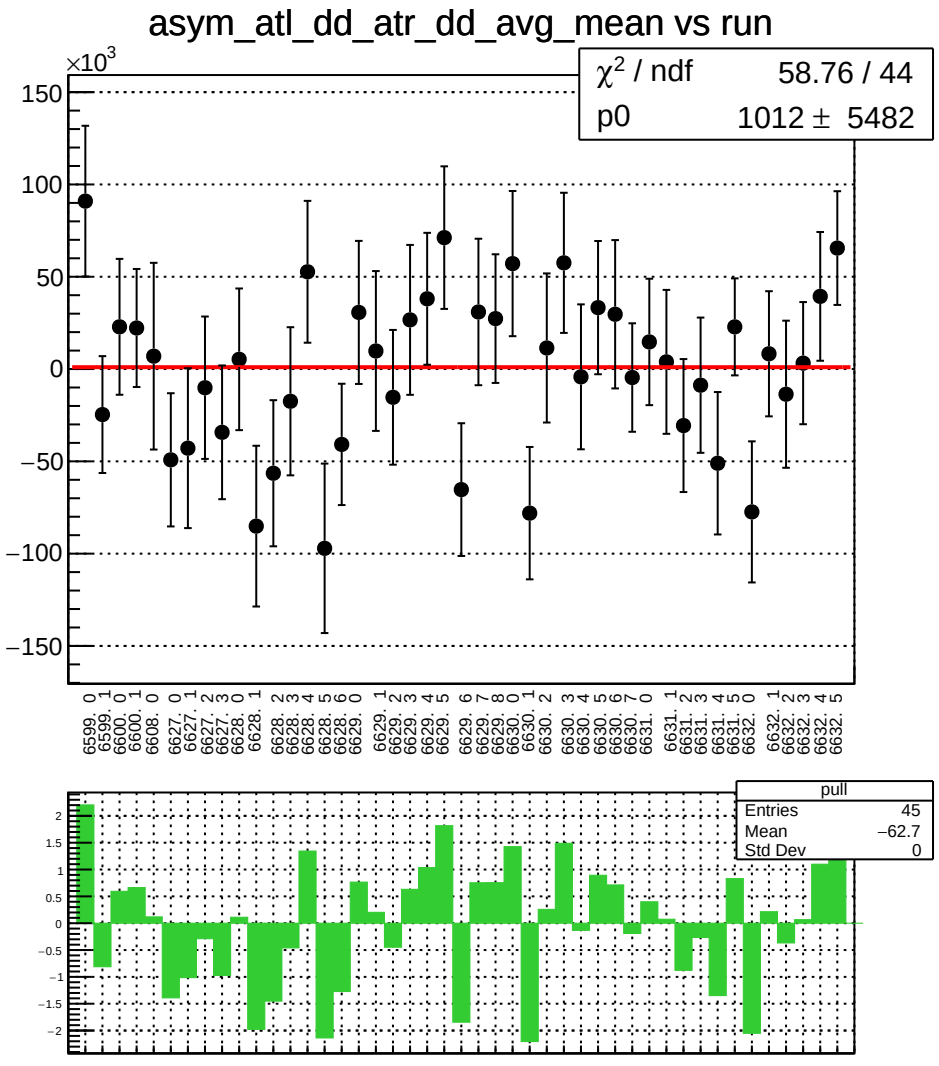
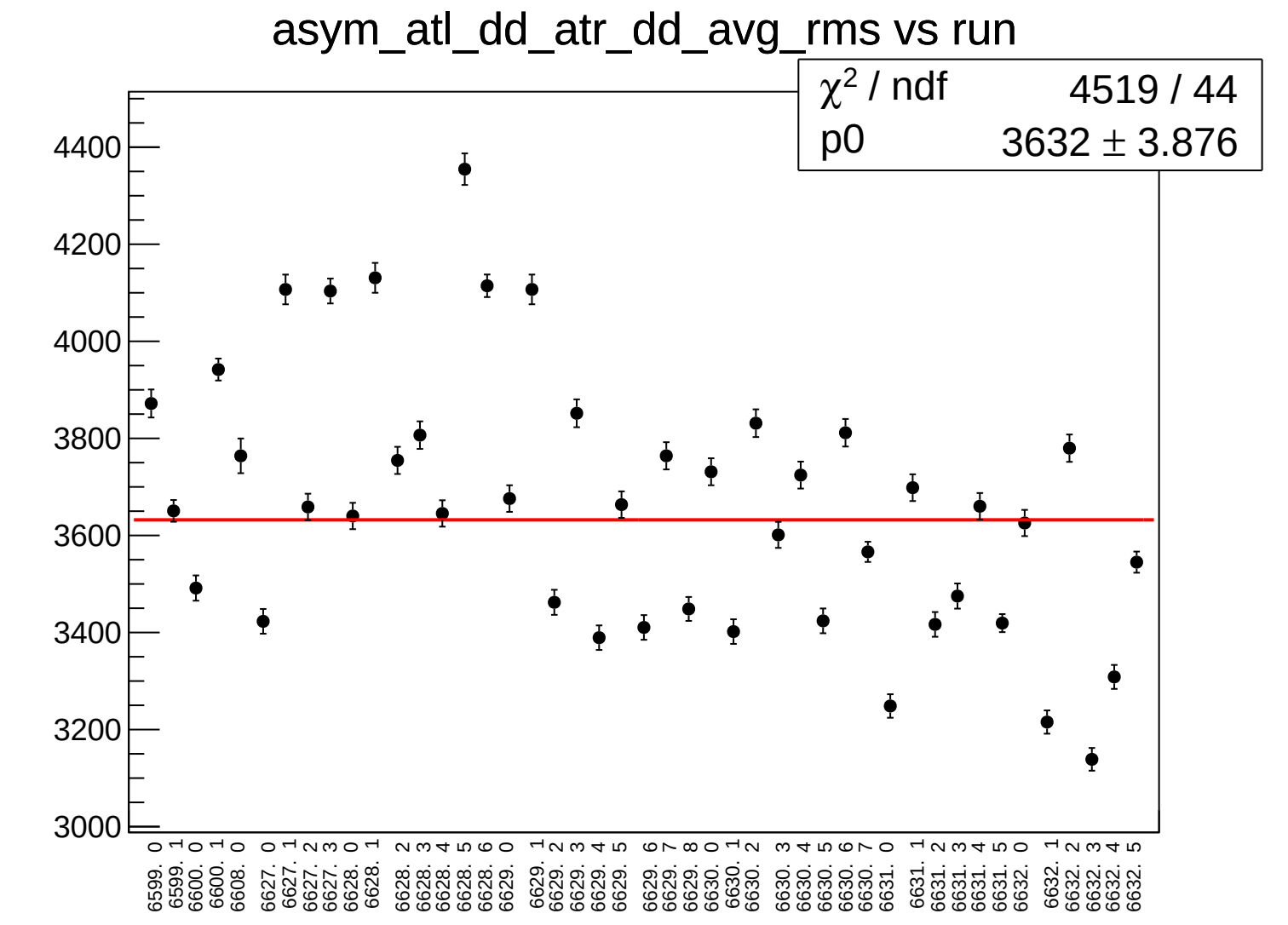
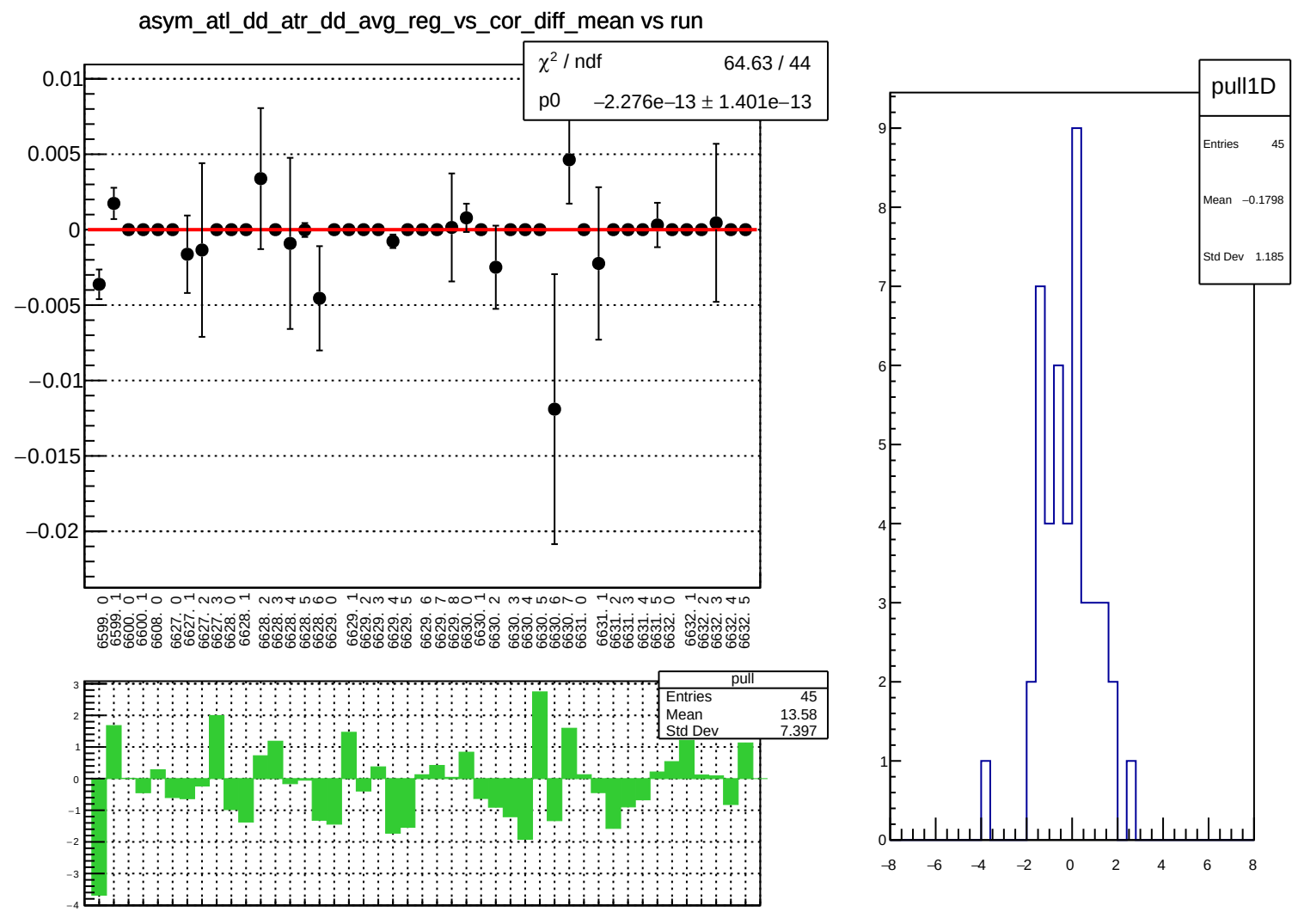
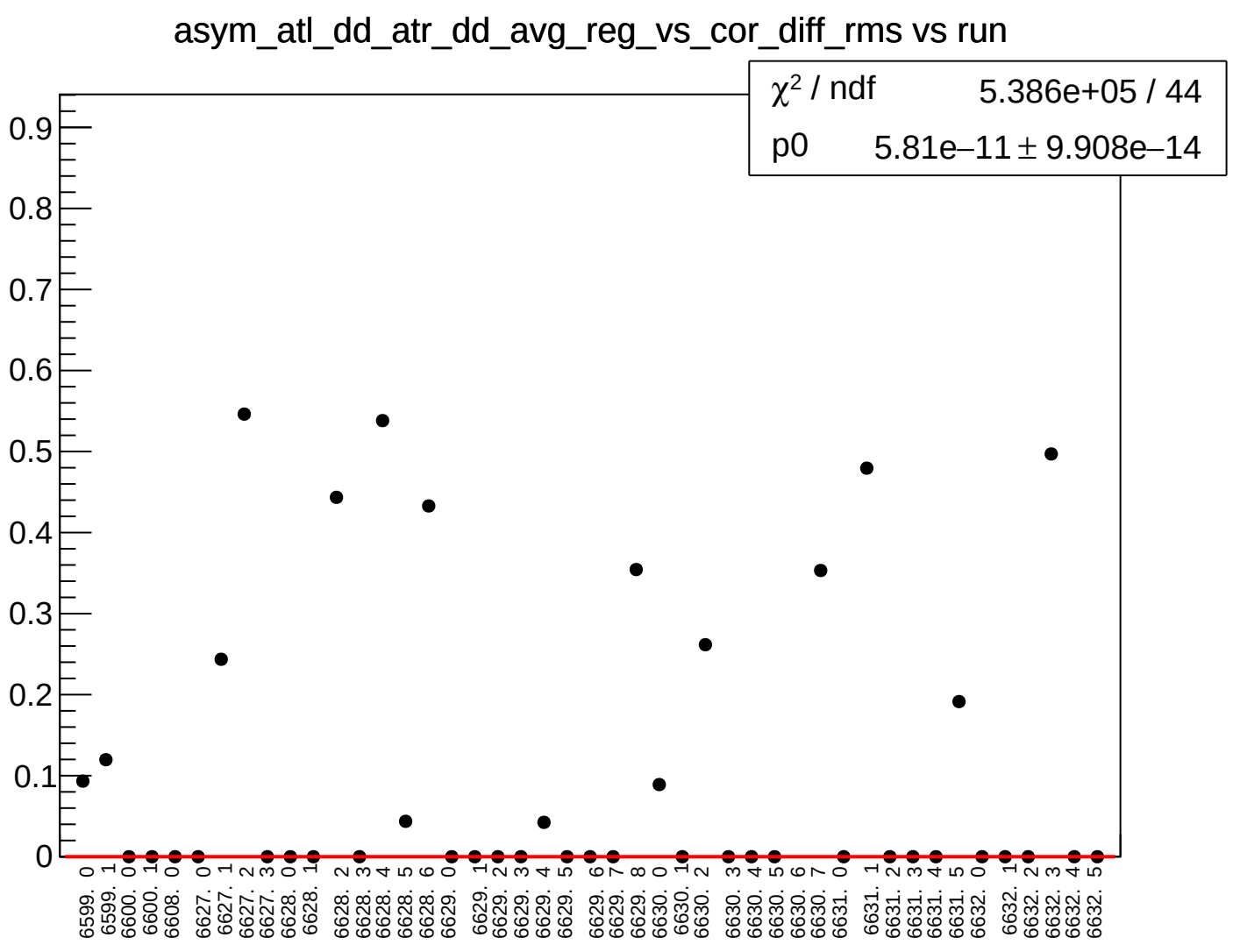
6632. 4
6632. 5


asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ^2 / ndf 58.76 / 44
p0 1012 ± 5482
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −62.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.0212
Std Dev 1.143
8
7
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 4519 / 44
p0 3632 ± 3.876
4400
4200
4000
3800
3600
3400
3200
3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 64.63 / 44
p0 −2.276e−13 ± 1.401e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 13.58
Std Dev 7.397
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 45
Mean −0.1798
Std Dev 1.185
9
8
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 5.386e+05 / 44
p0 5.81e−11 ± 9.908e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
6632. 0
6632. 1
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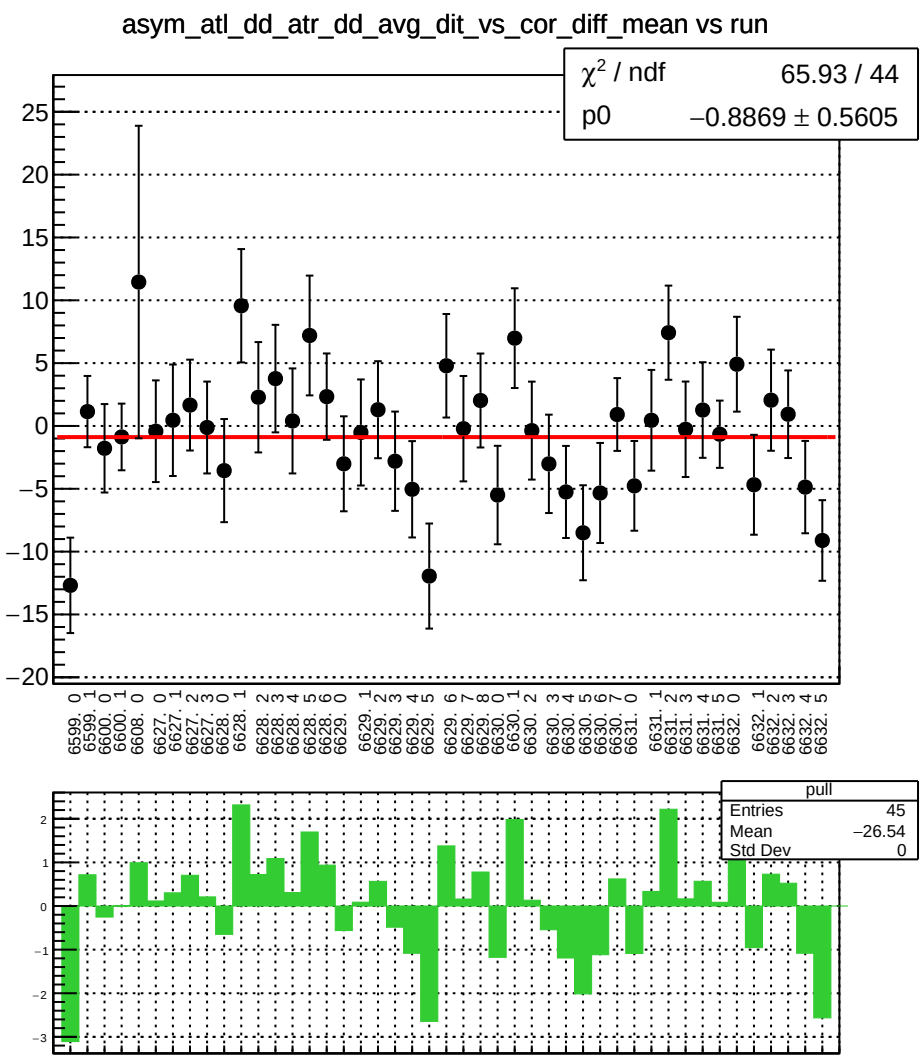
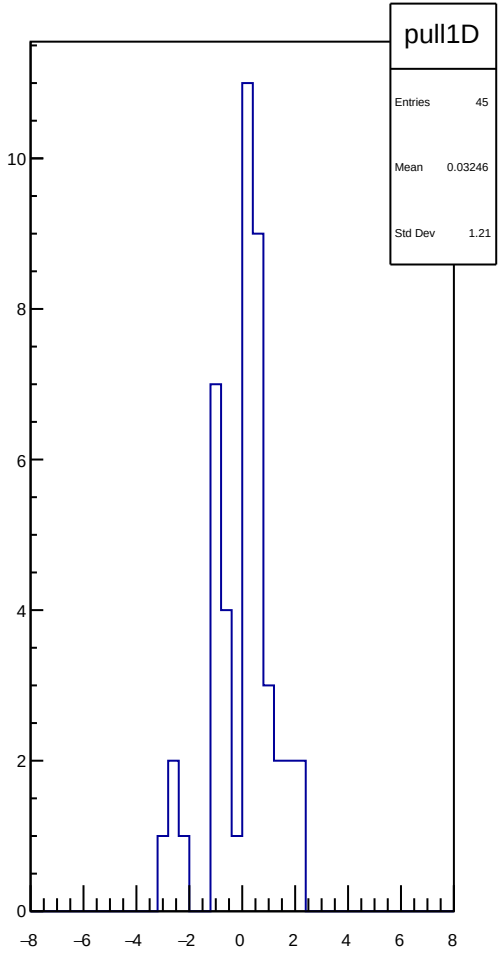
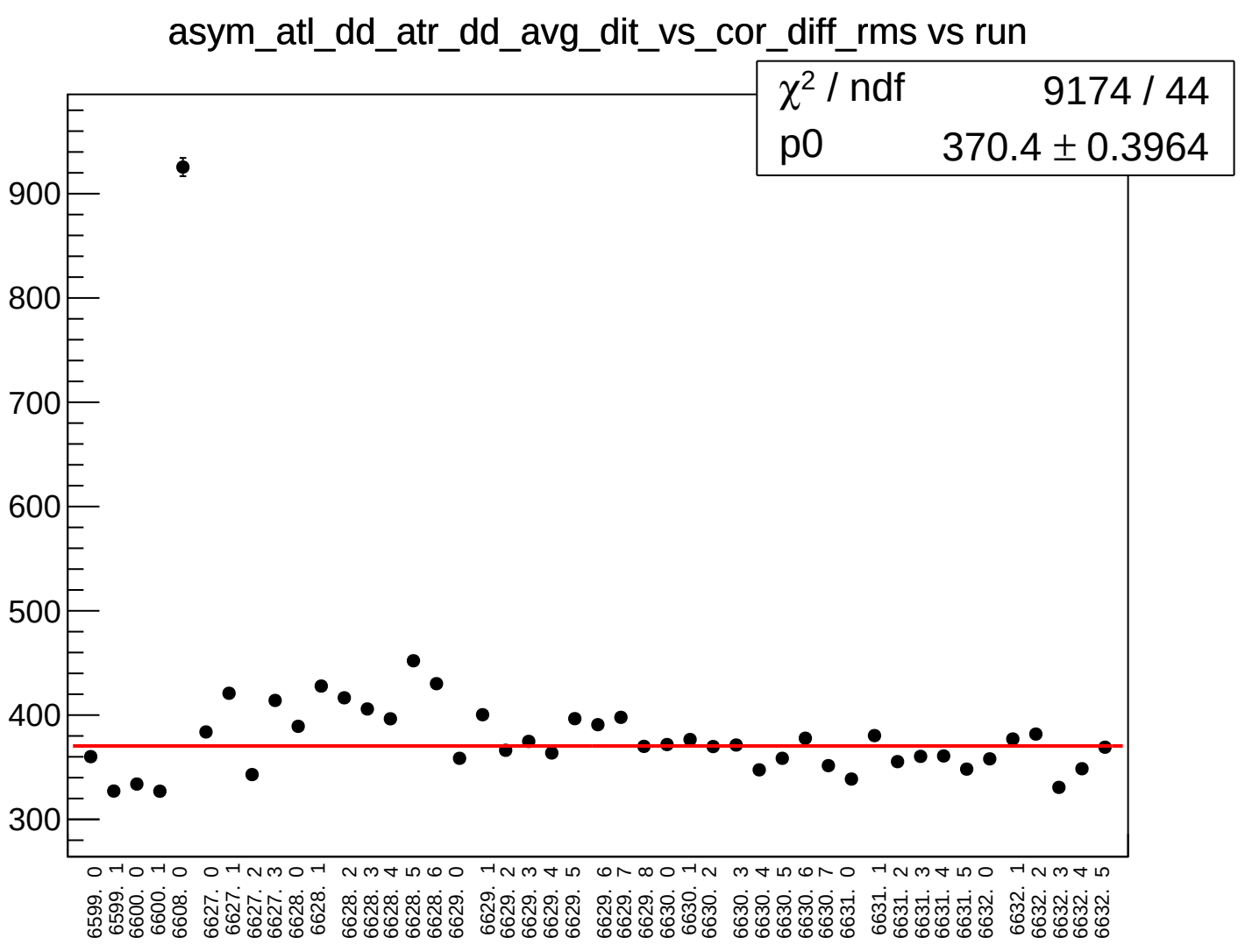
6632. 3
6632. 4
6632. 5


asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 65.93 / 44
p0 −0.8869 ± 0.5605
pull
Entries 45
Mean −26.54
Std Dev 0


pull1D
Entries 45
Mean 0.03246
Std Dev 1.21


asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9174 / 44
p0 370.4 ± 0.3964
900
800
700
600
500
400
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
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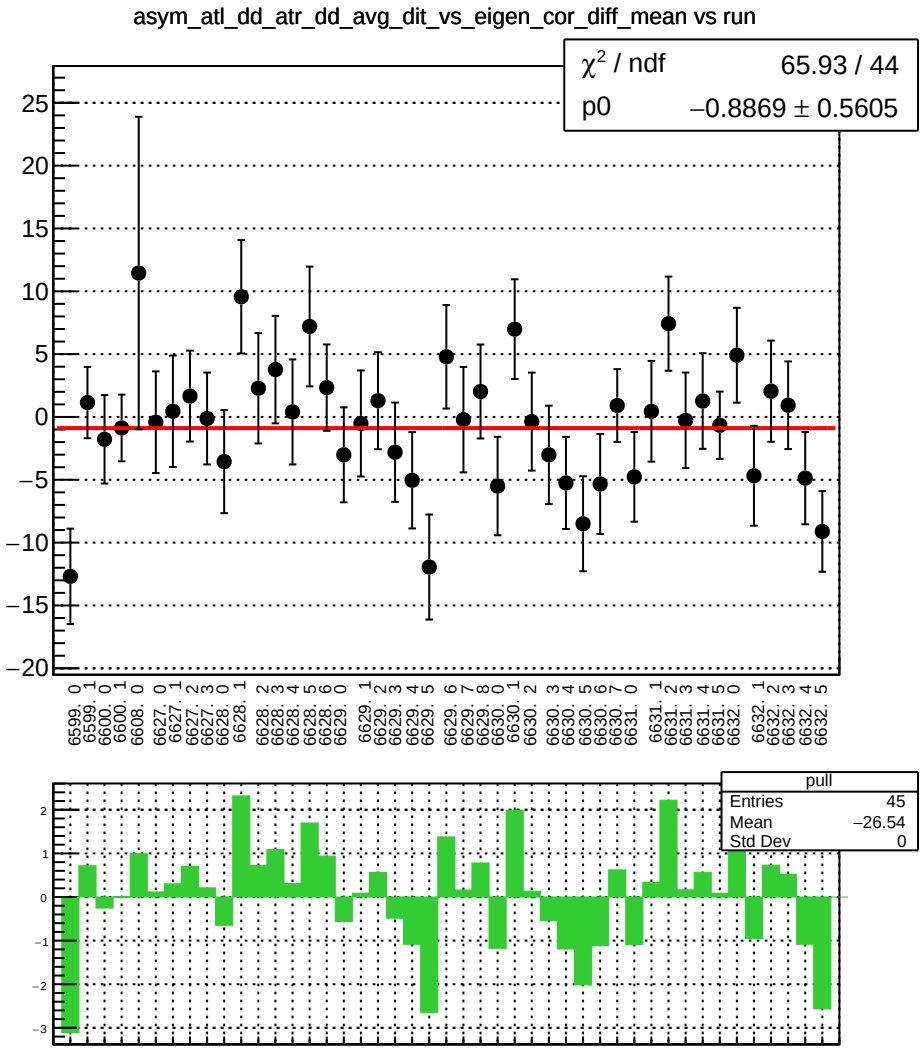
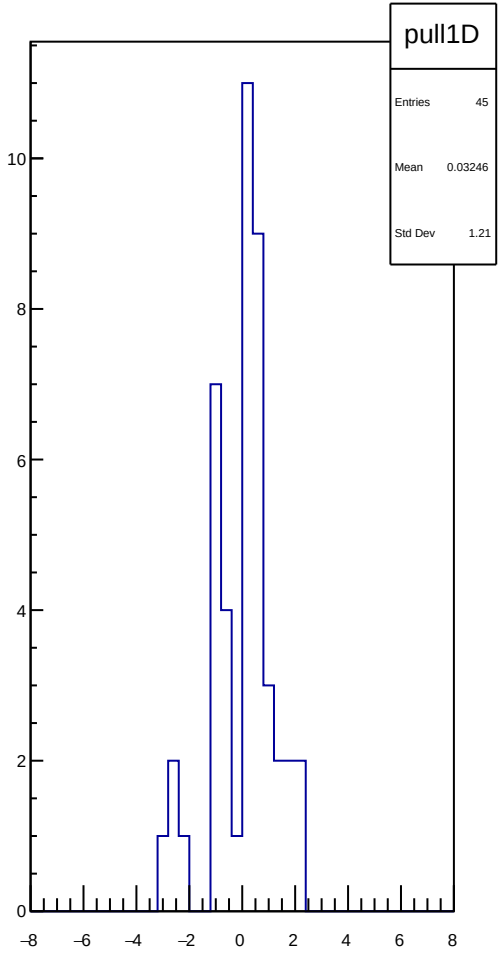
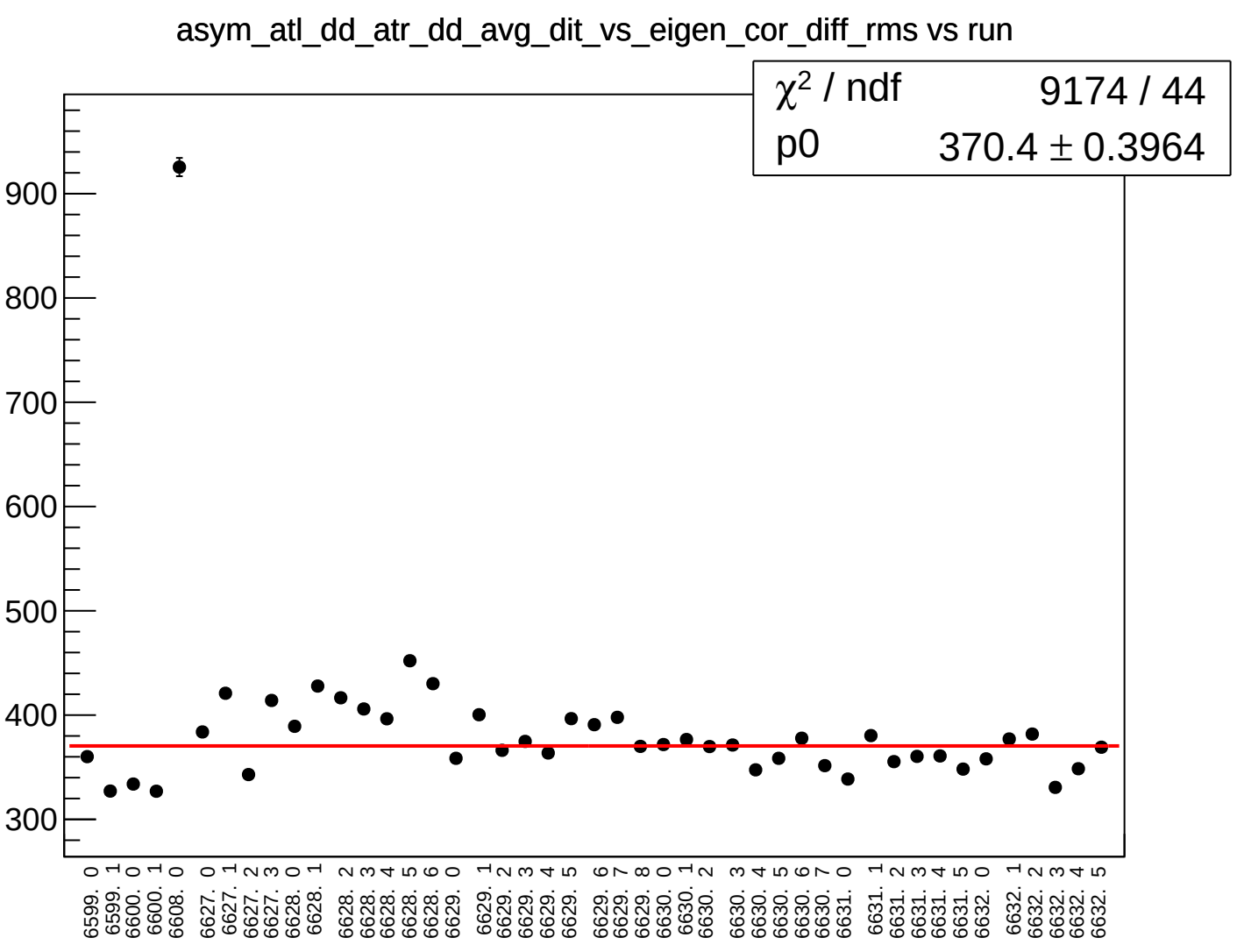
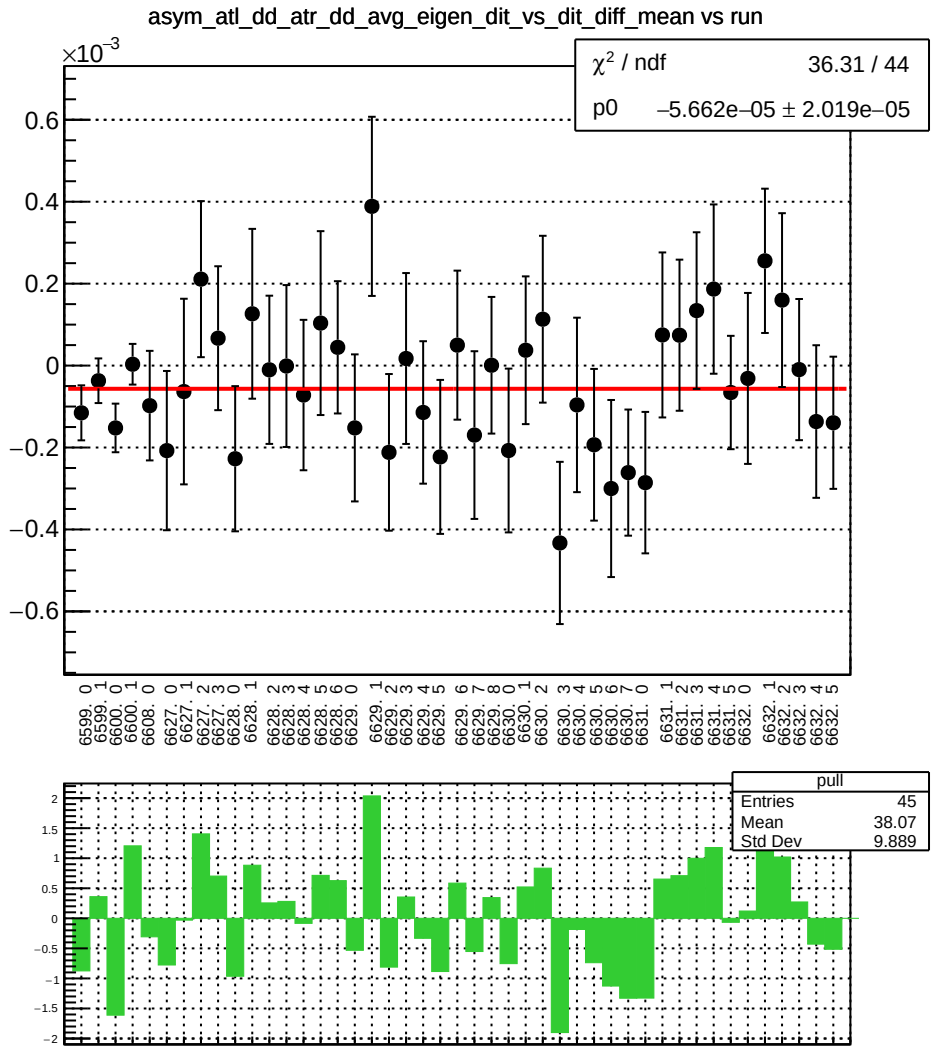
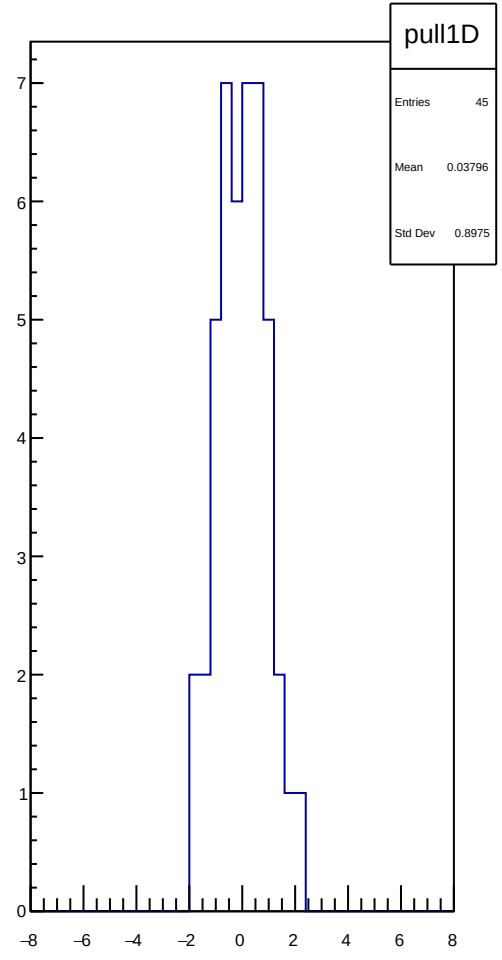
6632. 2
6632. 3
6632. 4
6632. 5

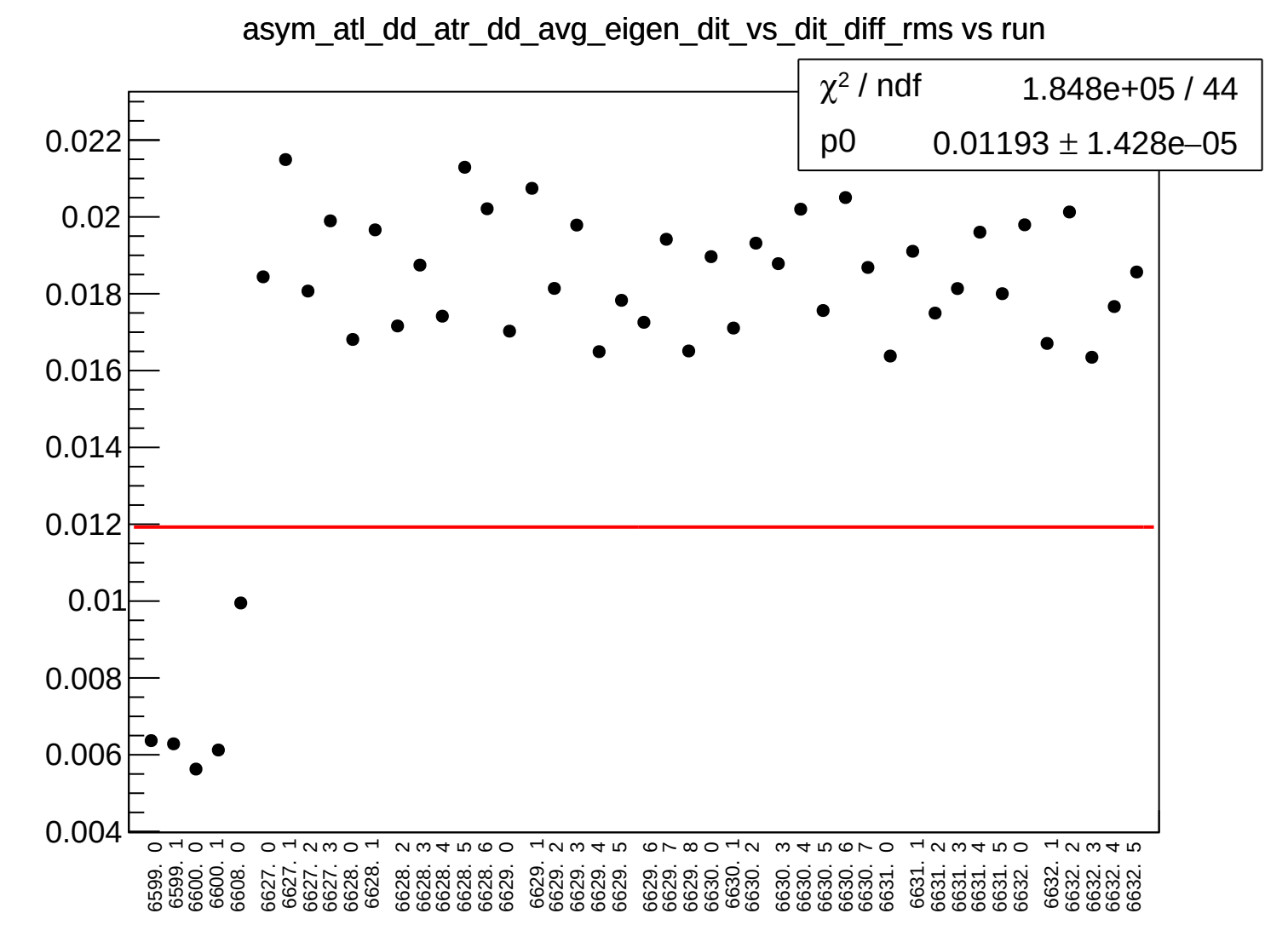

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.93 / 44
p0 −0.8869 ± 0.5605
pull
Entries 45
Mean −26.54
Std Dev 0

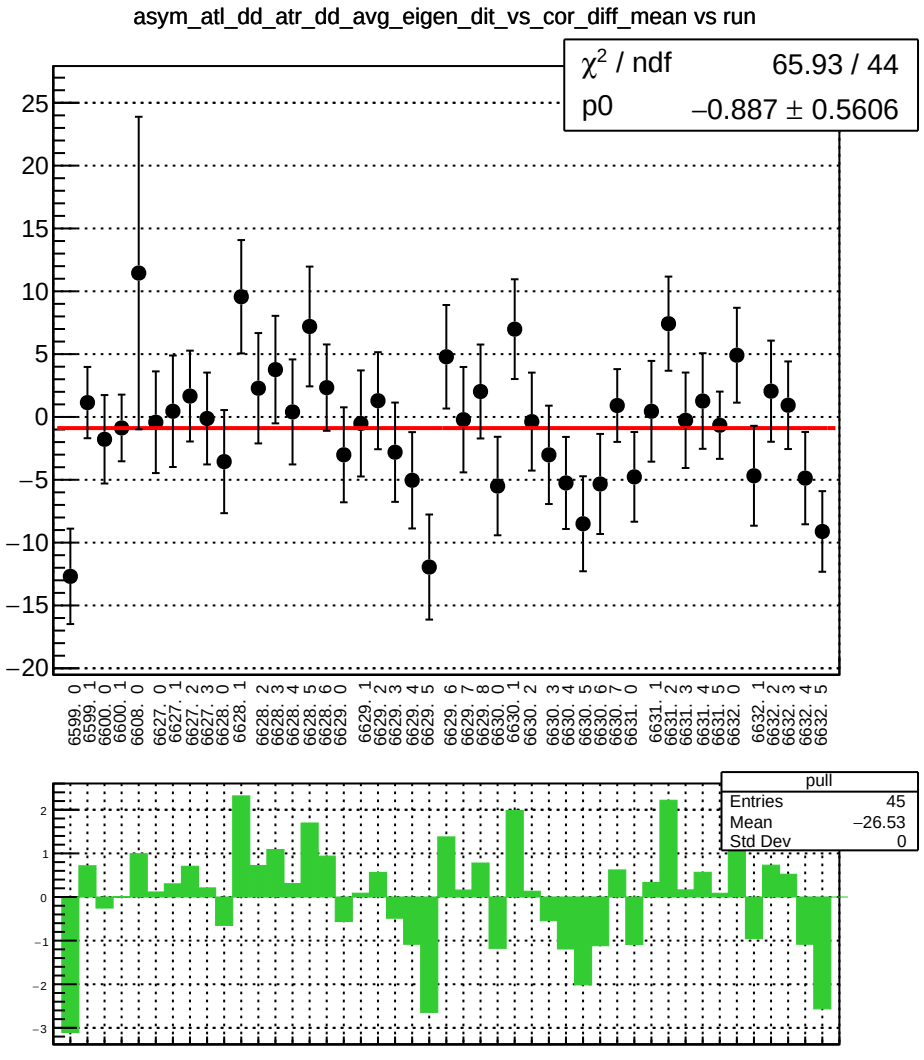

pull1D
Entries 45
Mean 0.03246
Std Dev 1.21

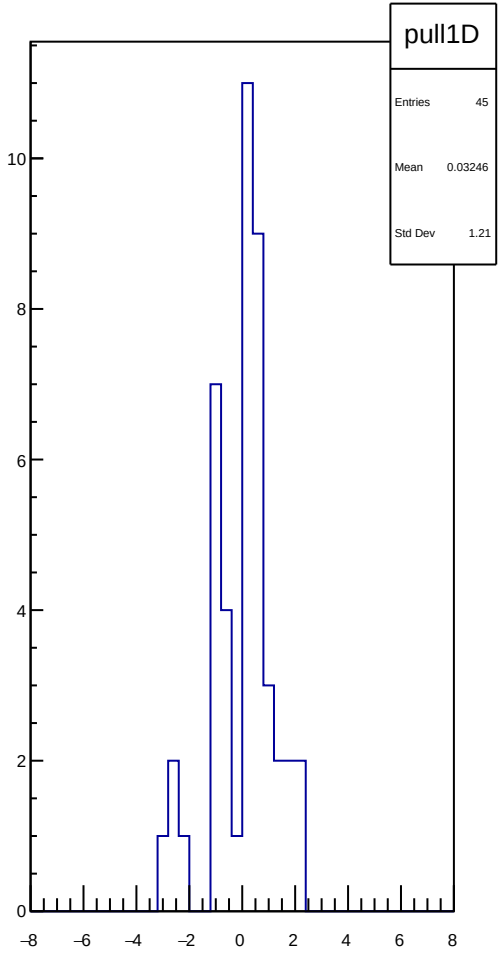

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9174 / 44
p0 370.4 ± 0.3964
900
800
700
600
500
400
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

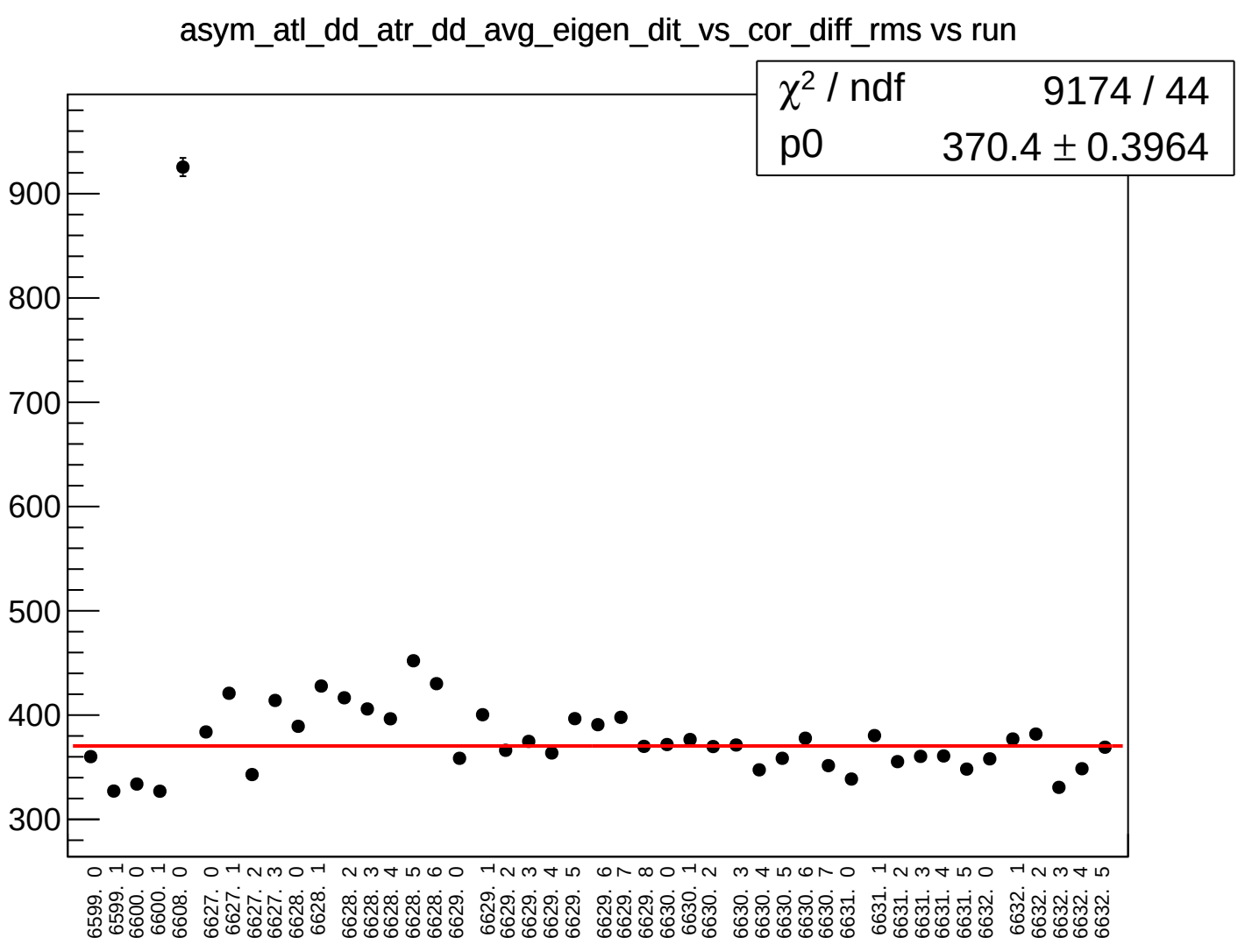

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 36.31 / 44
p0 −5.662e−05 ± 2.019e−05
pull
Entries 45
Mean 38.07
Std Dev 9.889

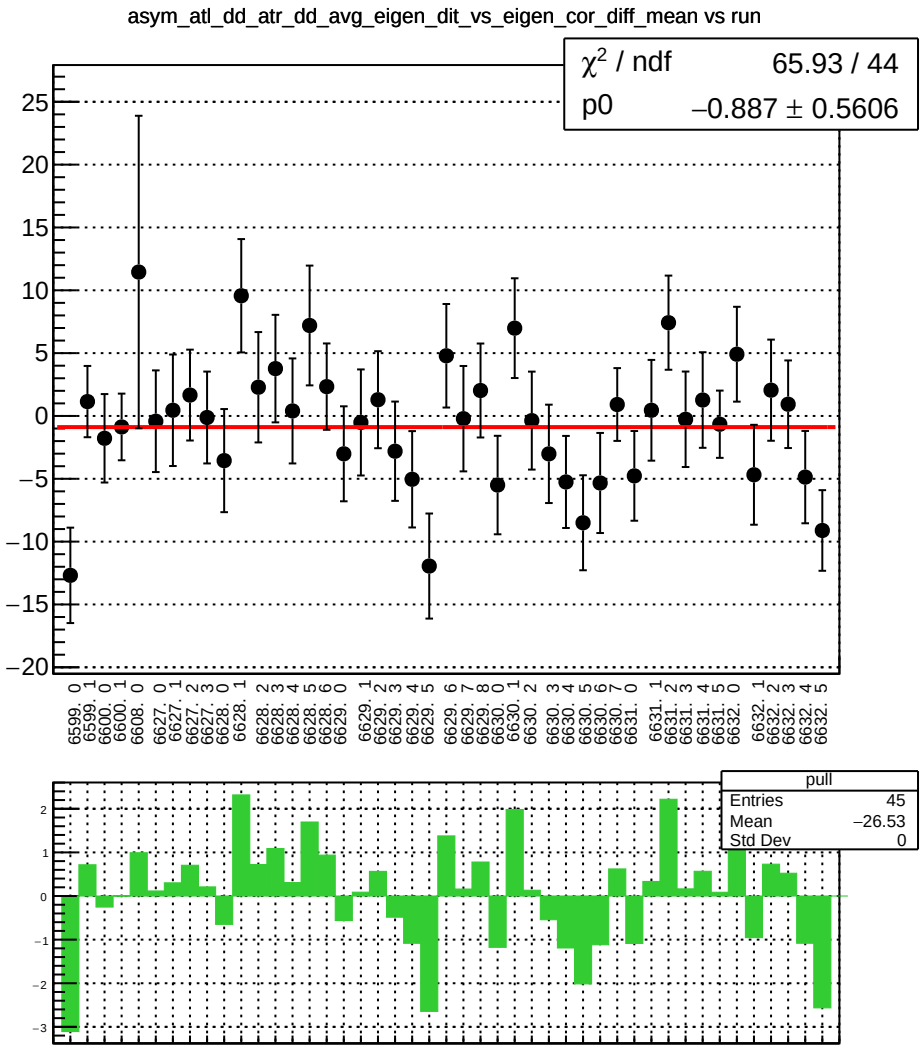

pull1D
Entries 45
Mean 0.03796
Std Dev 0.8975

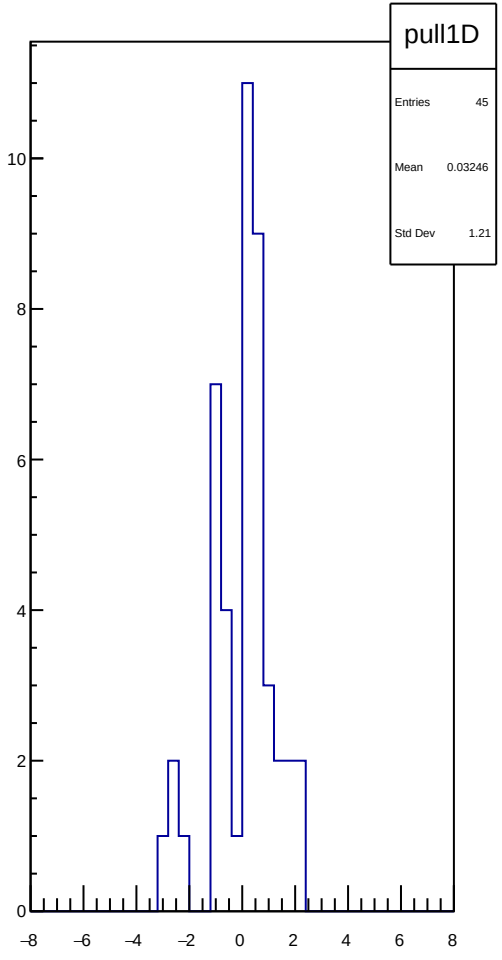

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.848e+05 / 44
p0 0.01193 ± 1.428e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

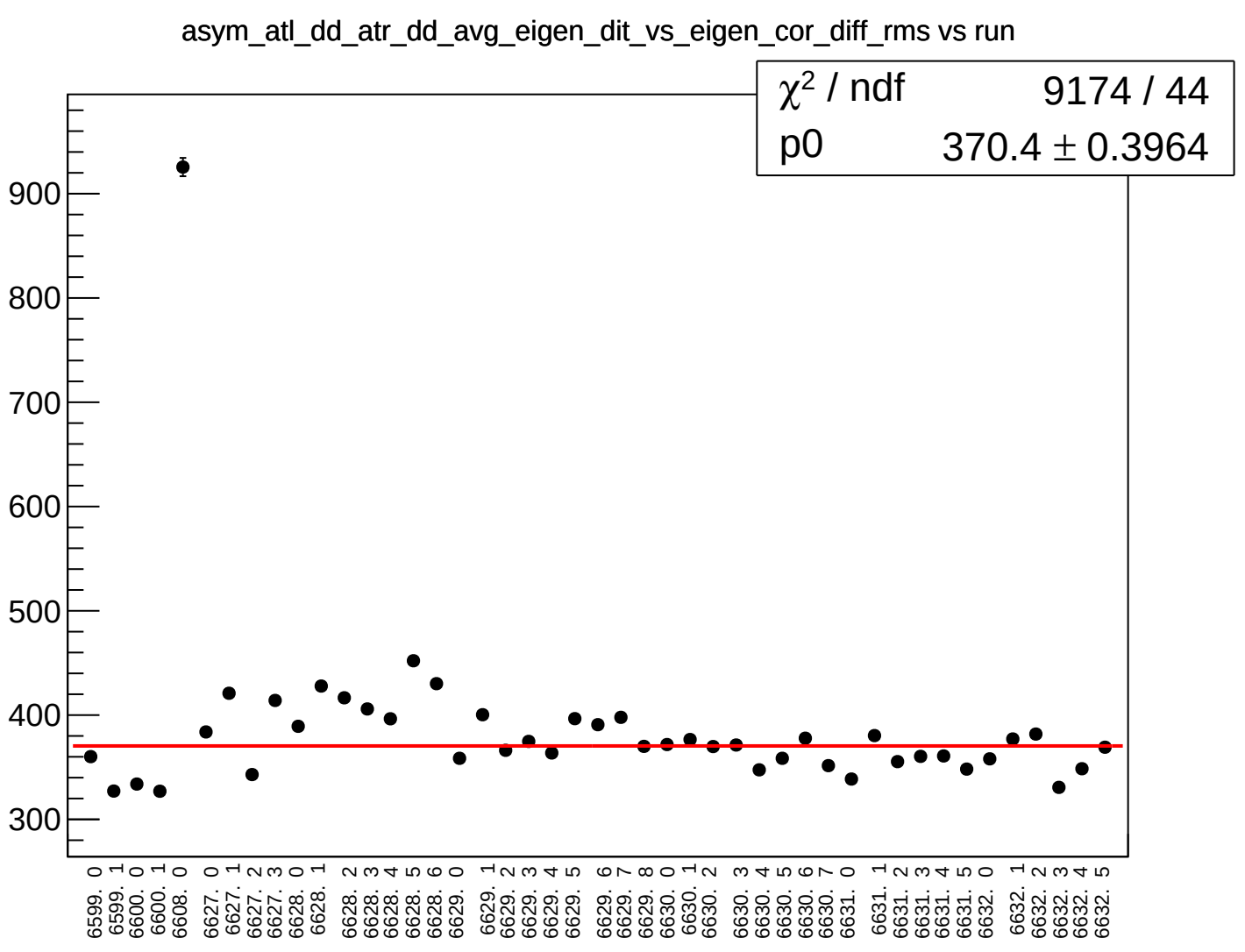

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65.93 / 44
p0 −0.887 ± 0.5606
pull
Entries 45
Mean −26.53
Std Dev 0

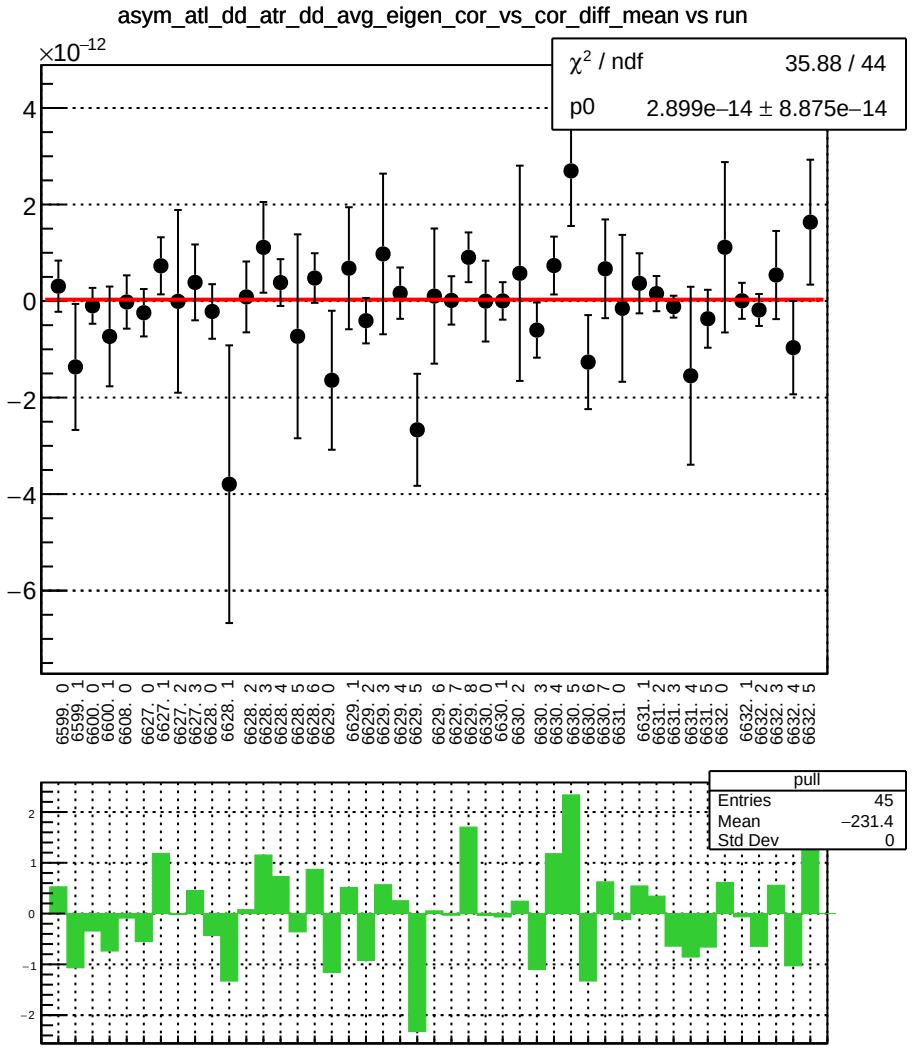

pull1D
Entries 45
Mean 0.03246
Std Dev 1.21

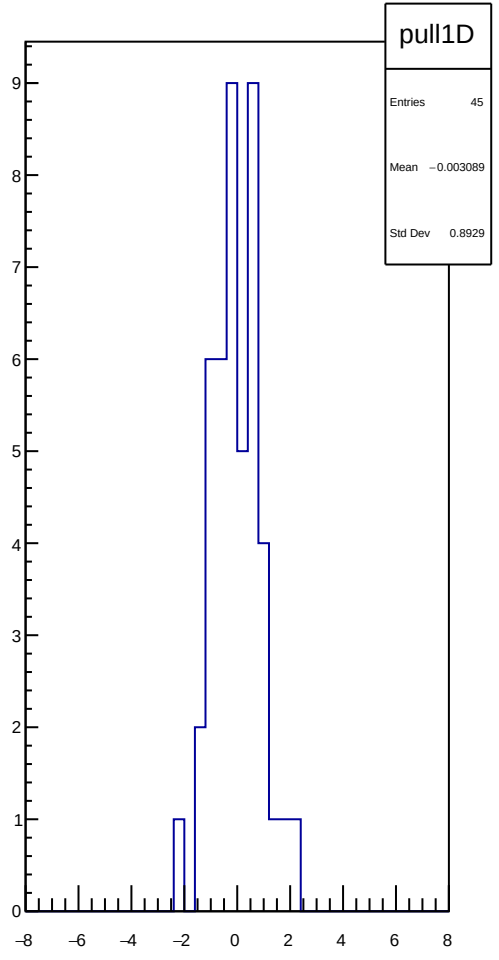

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9174 / 44
p0 370.4 ± 0.3964
900
800
700
600
500
400
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

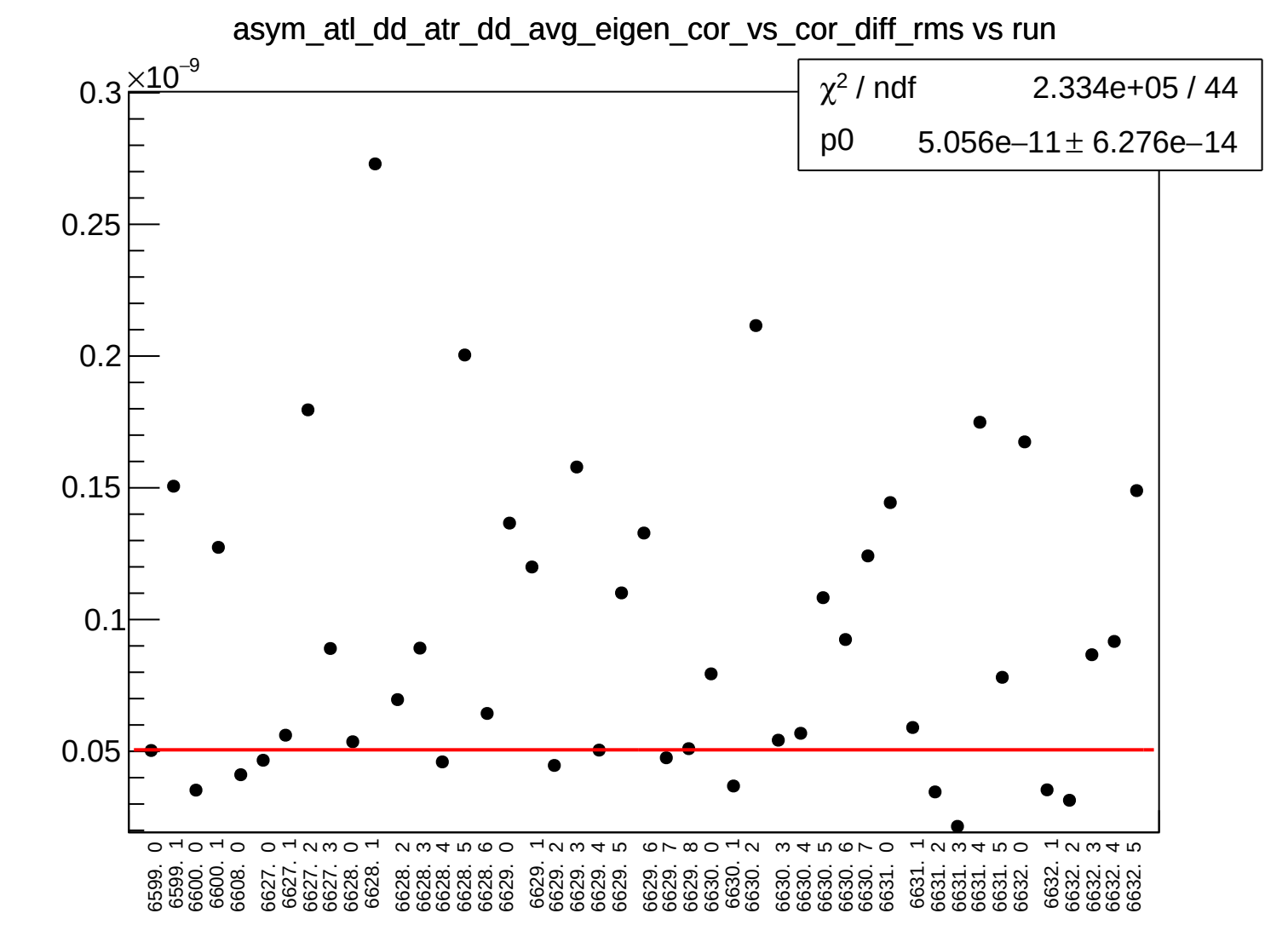

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.93 / 44
p0 −0.887 ± 0.5606
pull
Entries 45
Mean −26.53
Std Dev 0

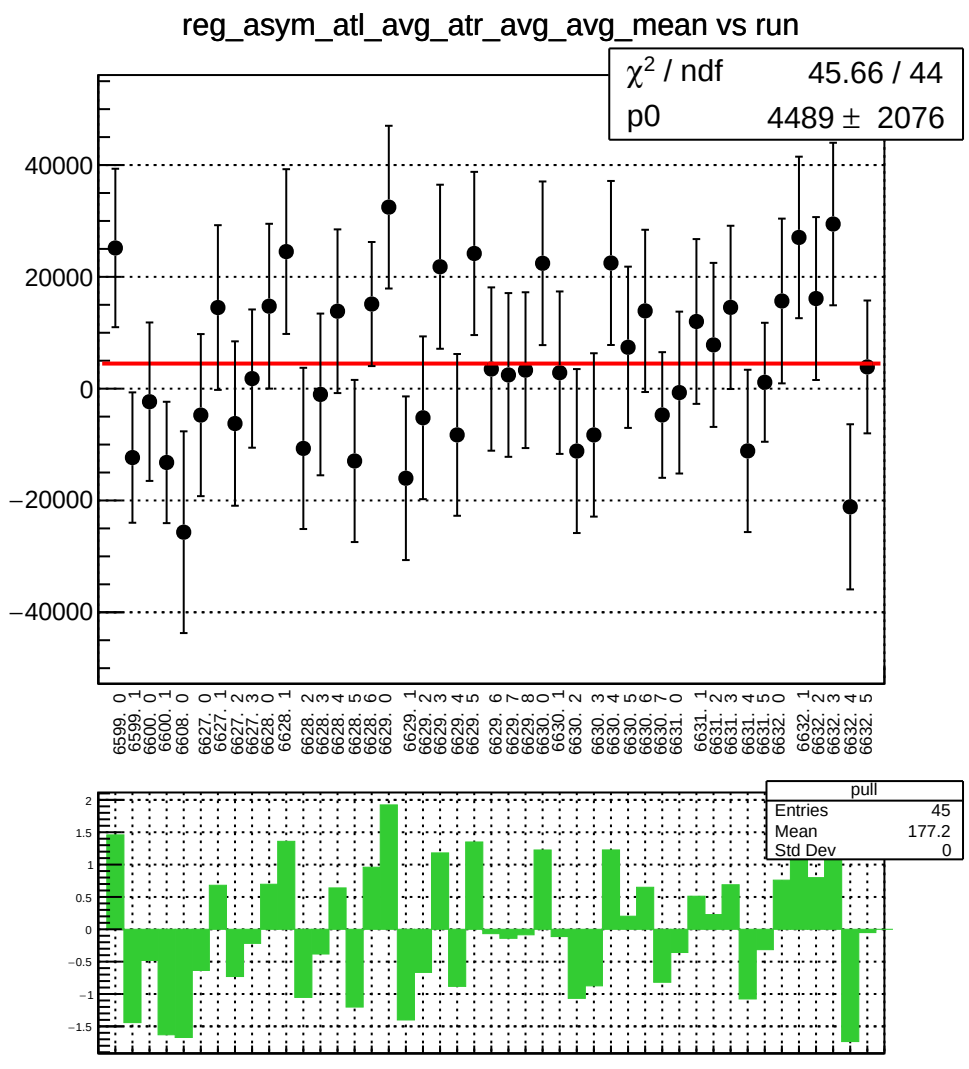

pull1D
Entries 45
Mean 0.03246
Std Dev 1.21

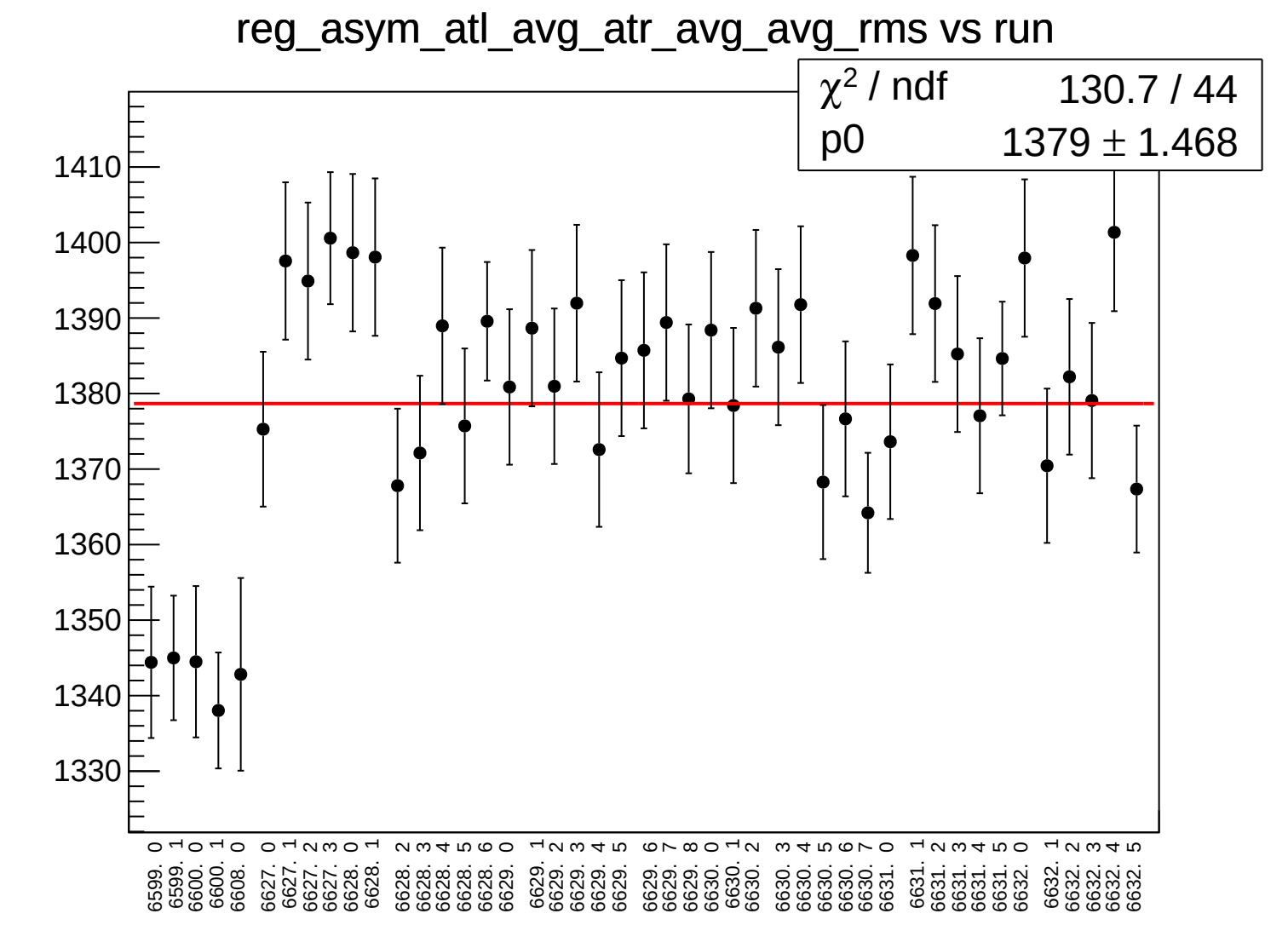

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9174 / 44
p0 370.4 ± 0.3964
900
800
700
600
500
400
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 35.88 / 44
p0 2.899e−14 ± 8.875e−14
pull
Entries 45
Mean −231.4
Std Dev 0


pull1D
Entries 45
Mean −0.003089
Std Dev 0.8929


asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.334e+05 / 44
p0 5.056e−11 ± 6.276e−14
0.3
0.25
0.2
0.15
0.1
0.05
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 45.66 / 44
p0 4489 ± 2076
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 177.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.01605
Std Dev 1.007
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_rms vs run
χ² / ndf 130.7 / 44
p0 1379 ± 1.468
1410
1400
1390
1380
1370
1360
1350
1340
1330
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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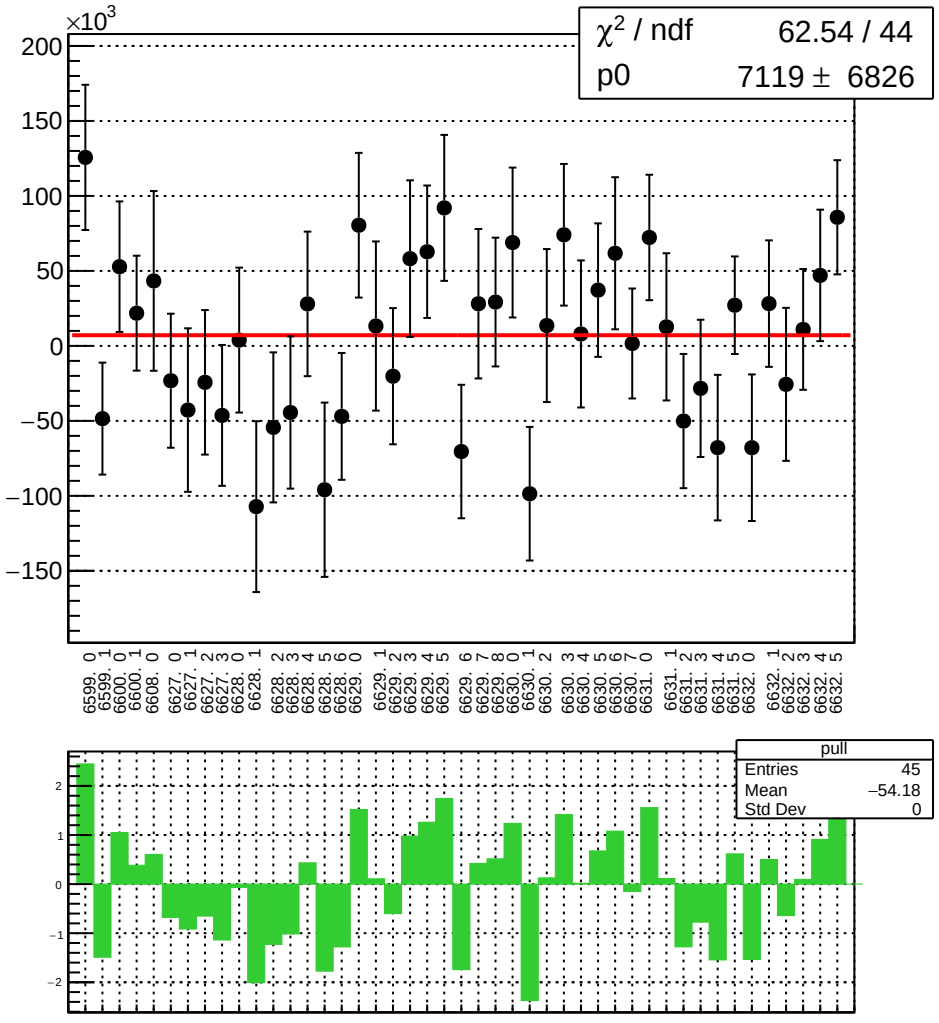
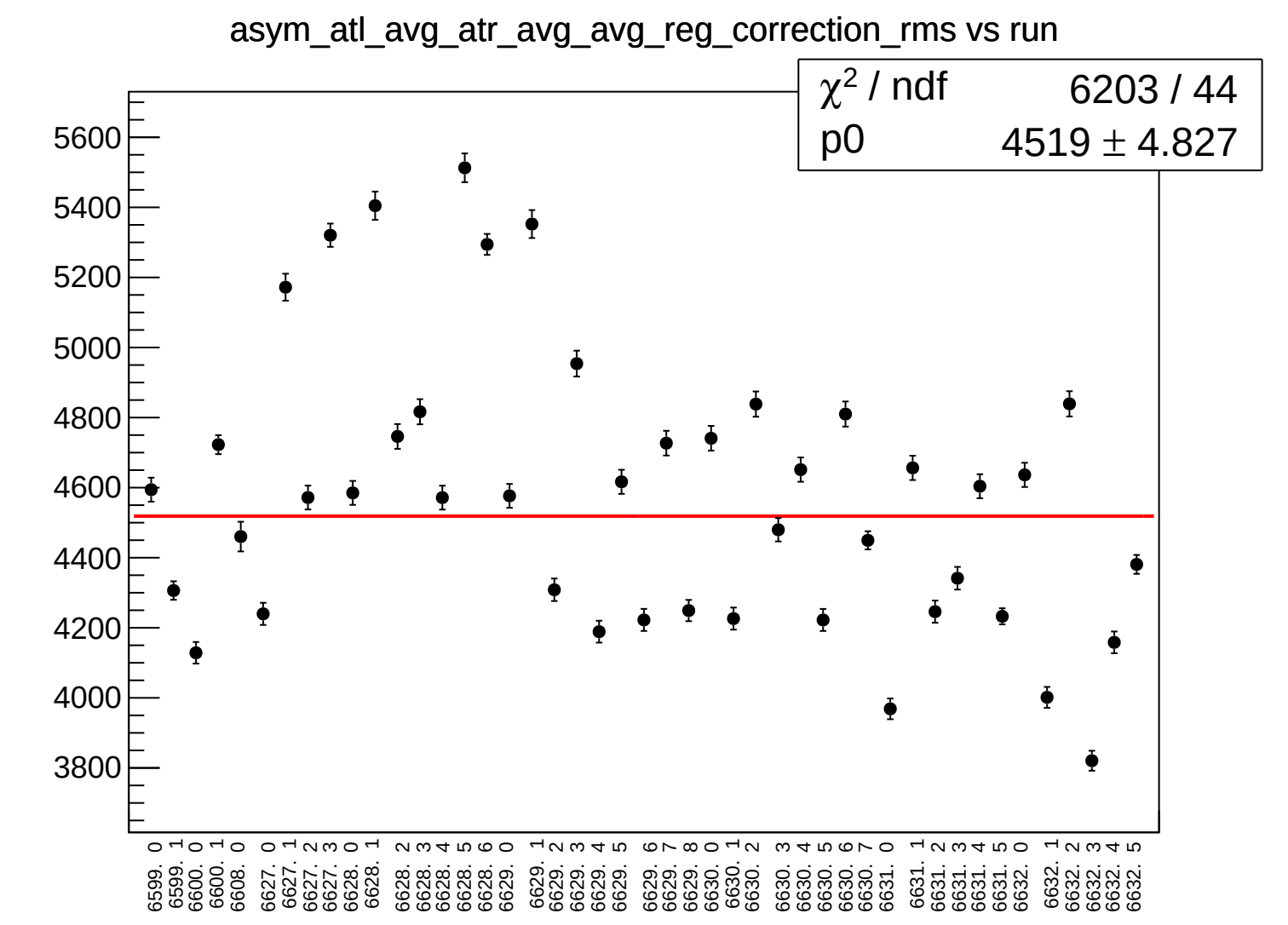
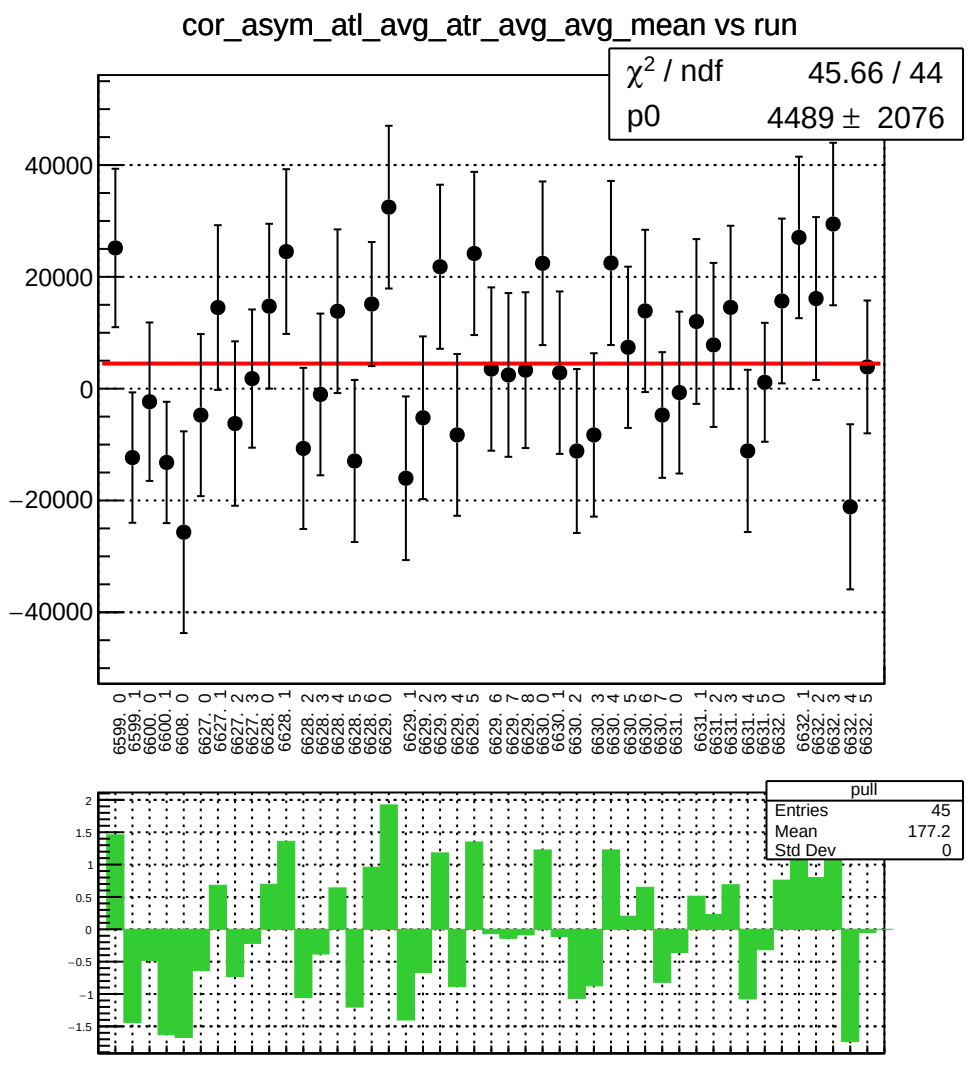
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 62.54 / 44
p0 7119 ± 6826
200
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −54.18
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02231
Std Dev 1.179
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 6203 / 44
p0 4519 ± 4.827
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 45.66 / 44
p0 4489 ± 2076
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
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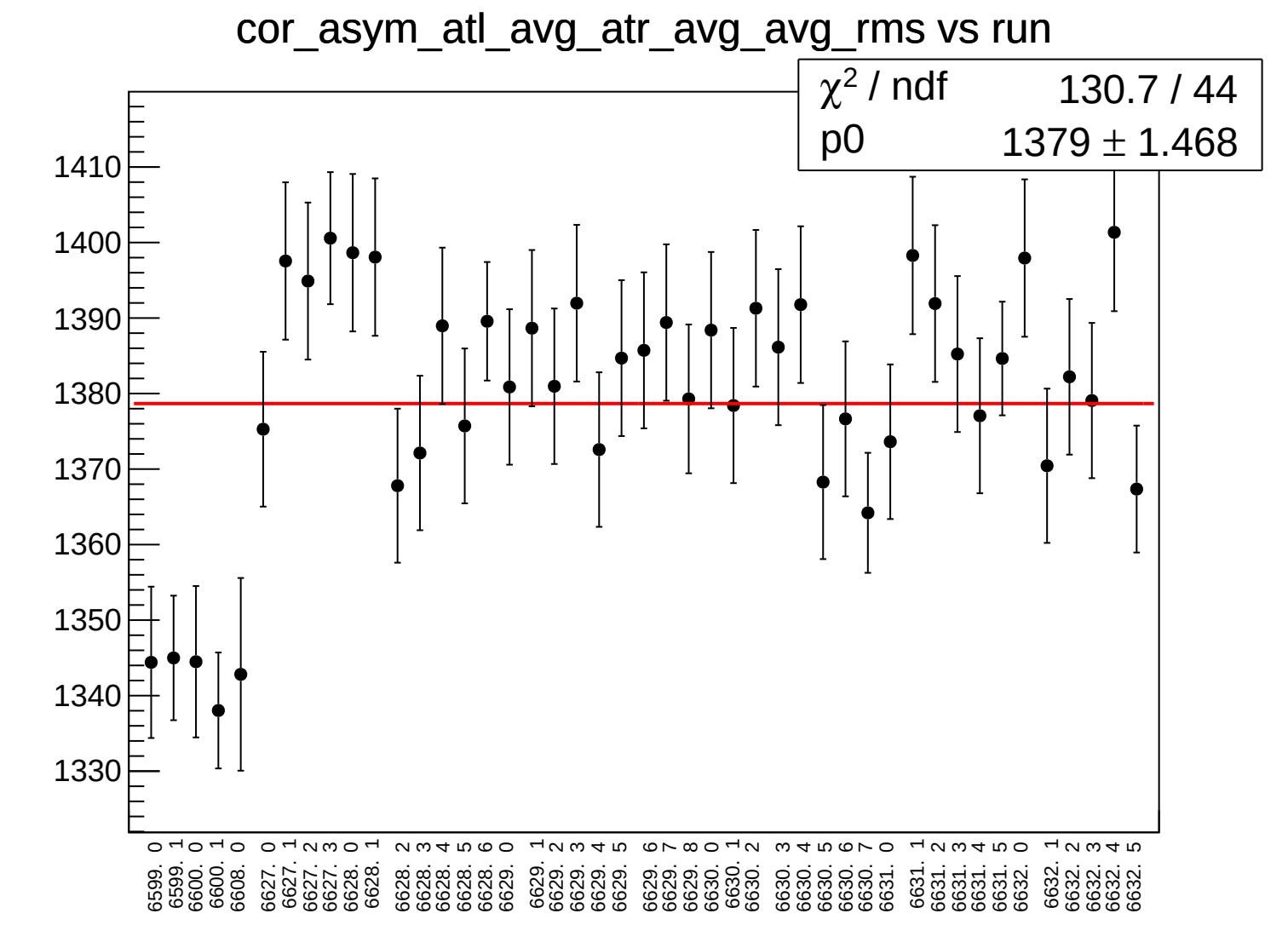
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 177.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.01606
Std Dev 1.007
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 130.7 / 44
p0 1379 ± 1.468
1410
1400
1390
1380
1370
1360
1350
1340
1330
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
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6628. 1
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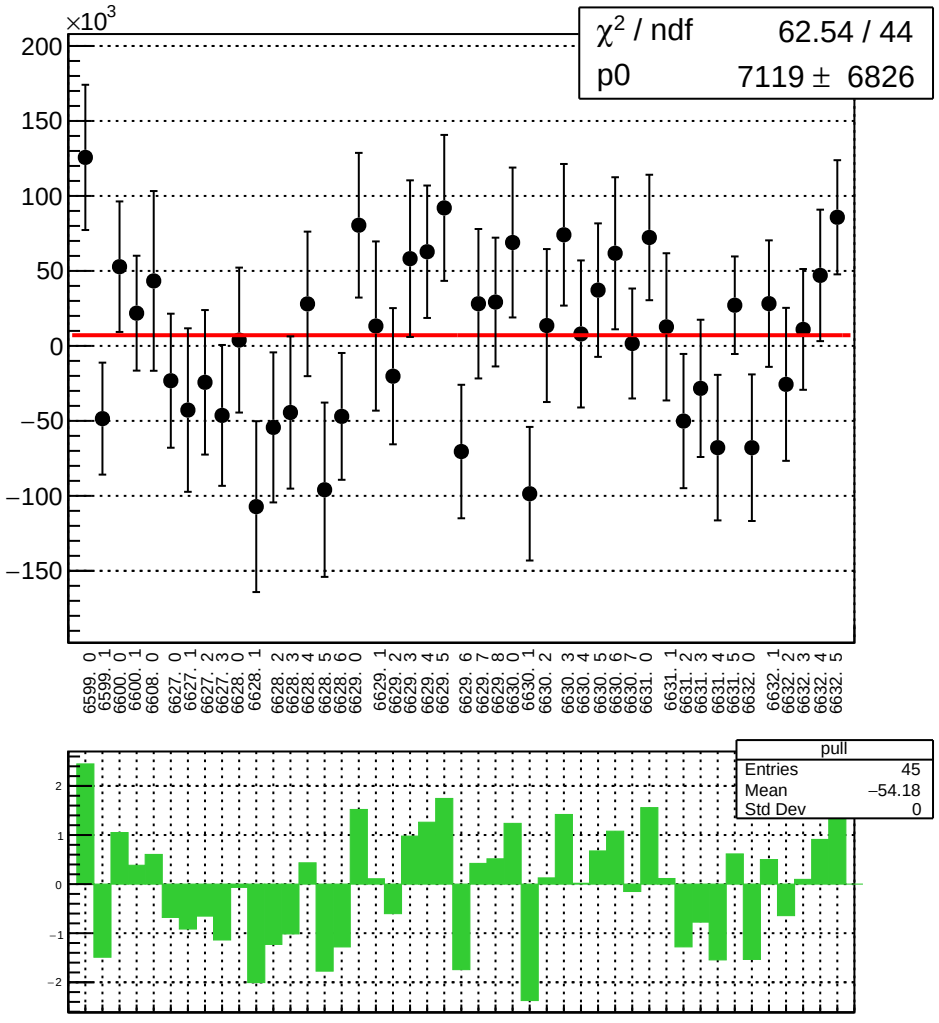
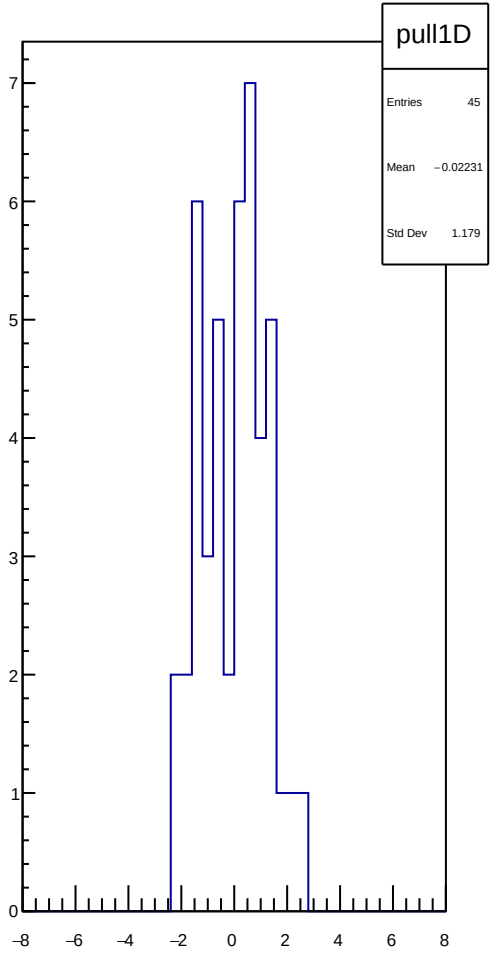
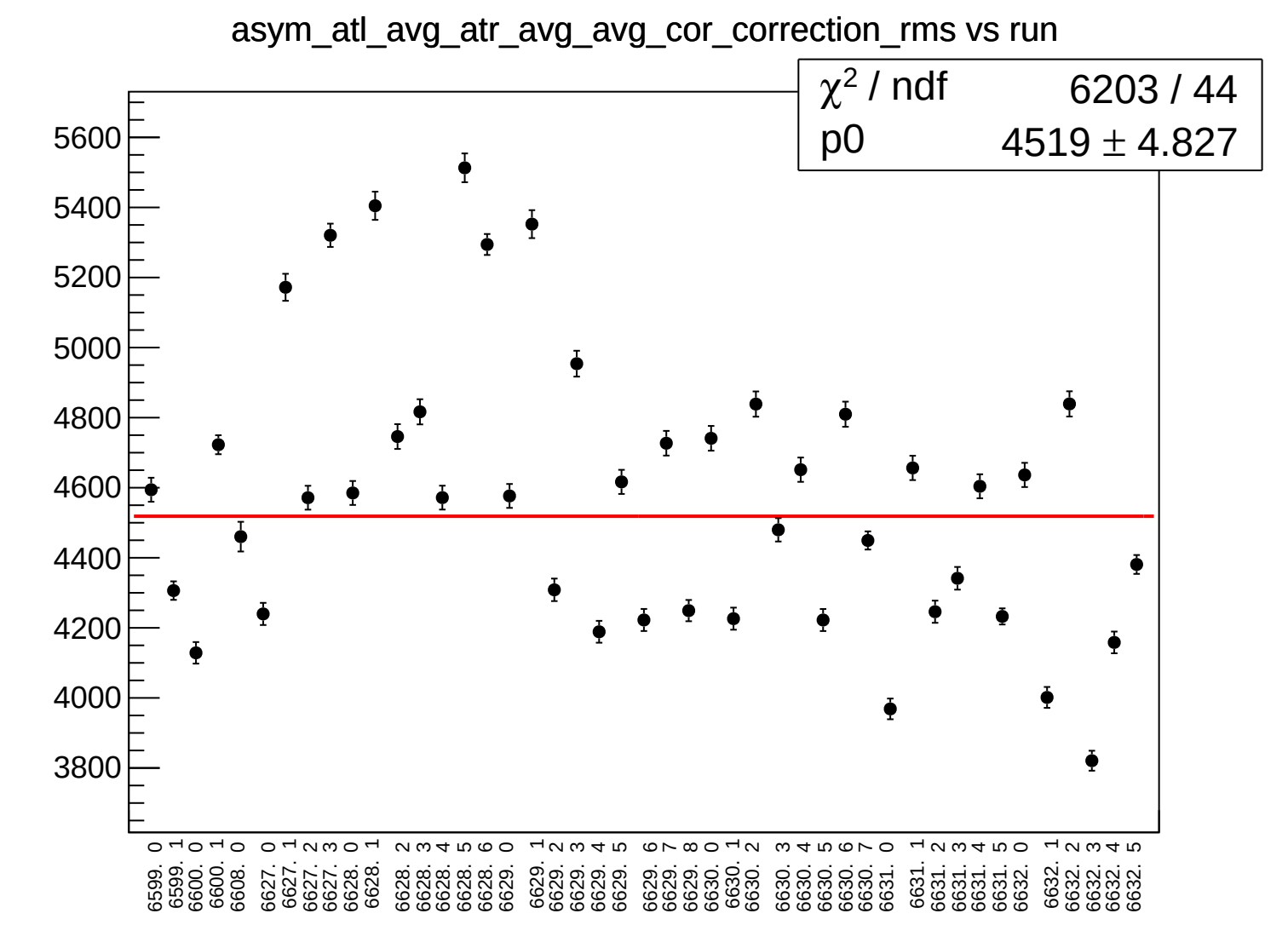
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 62.54 / 44
p0 7119 ± 6826
pull
Entries 45
Mean −54.18
Std Dev 0


pull1D
Entries 45
Mean −0.02231
Std Dev 1.179


asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 6203 / 44
p0 4519 ± 4.827
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
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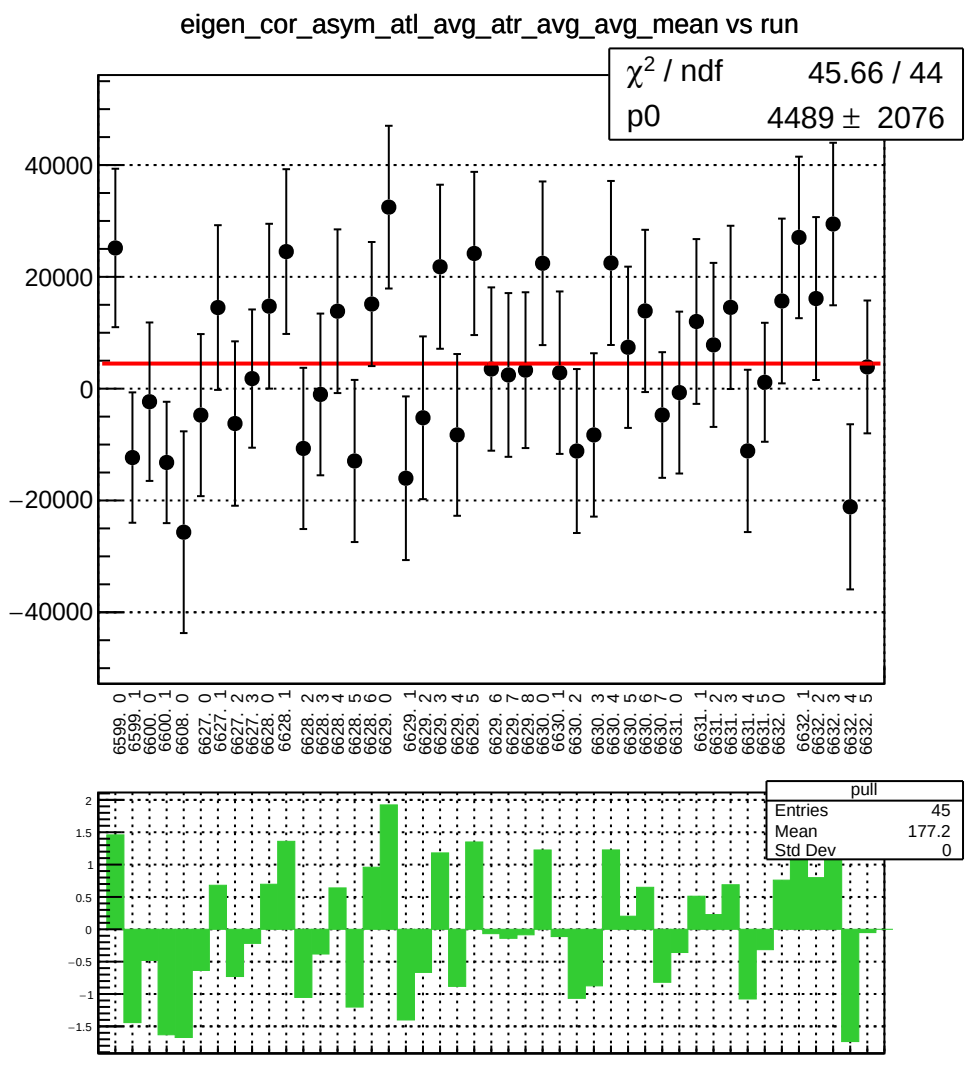
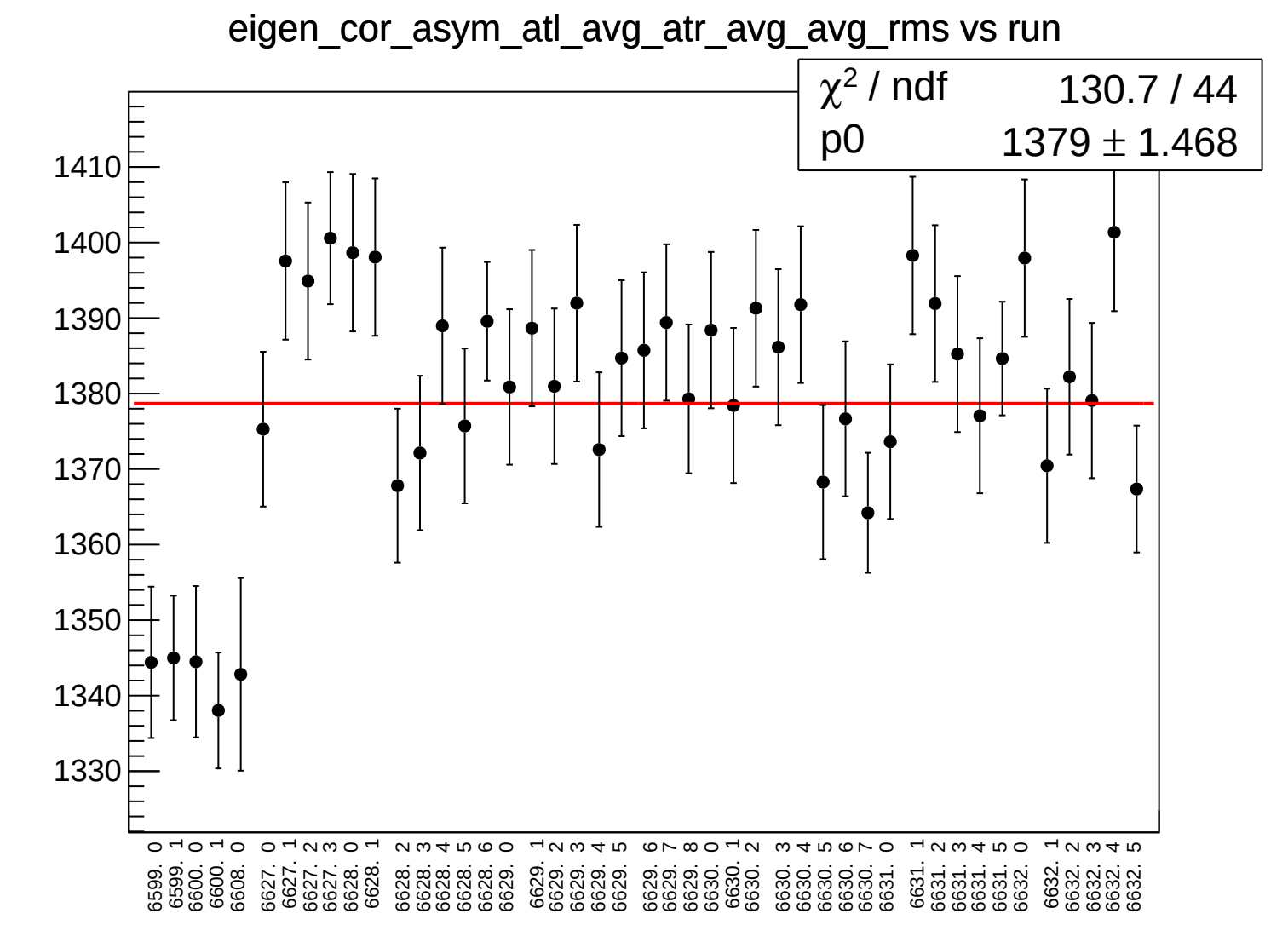
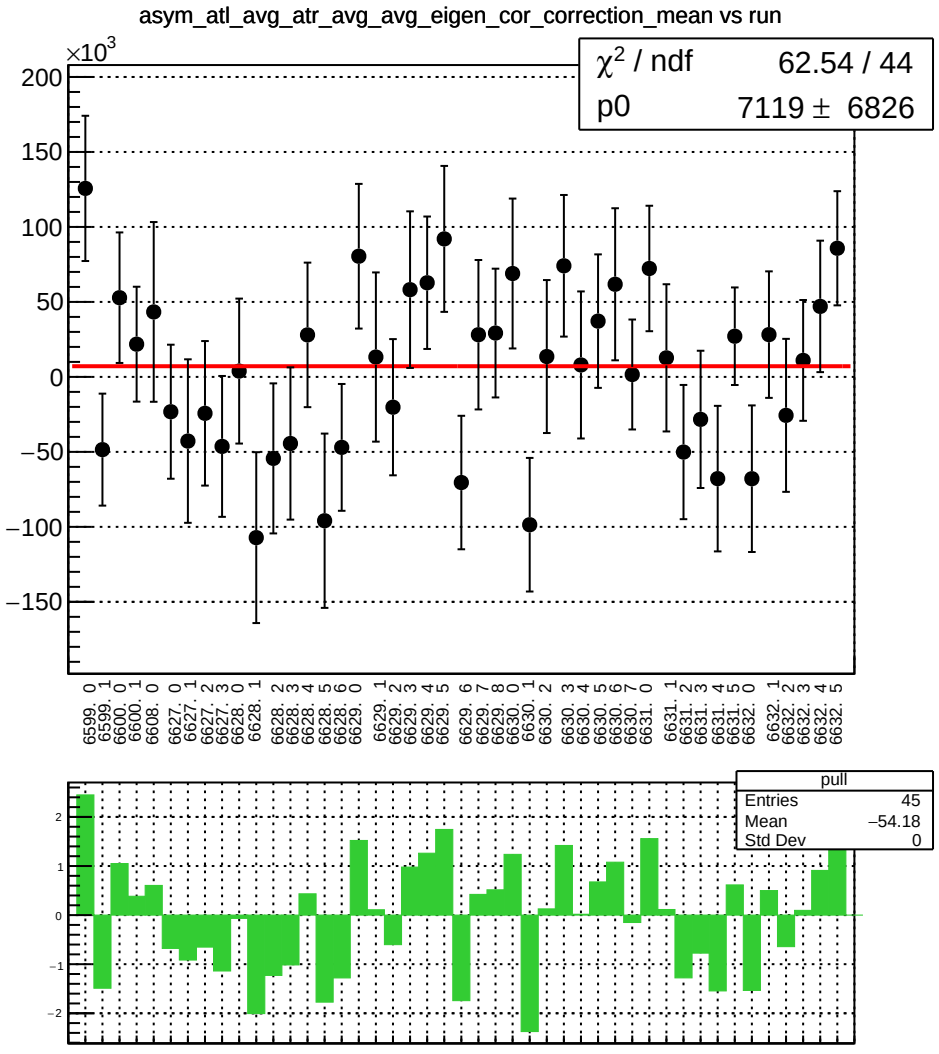
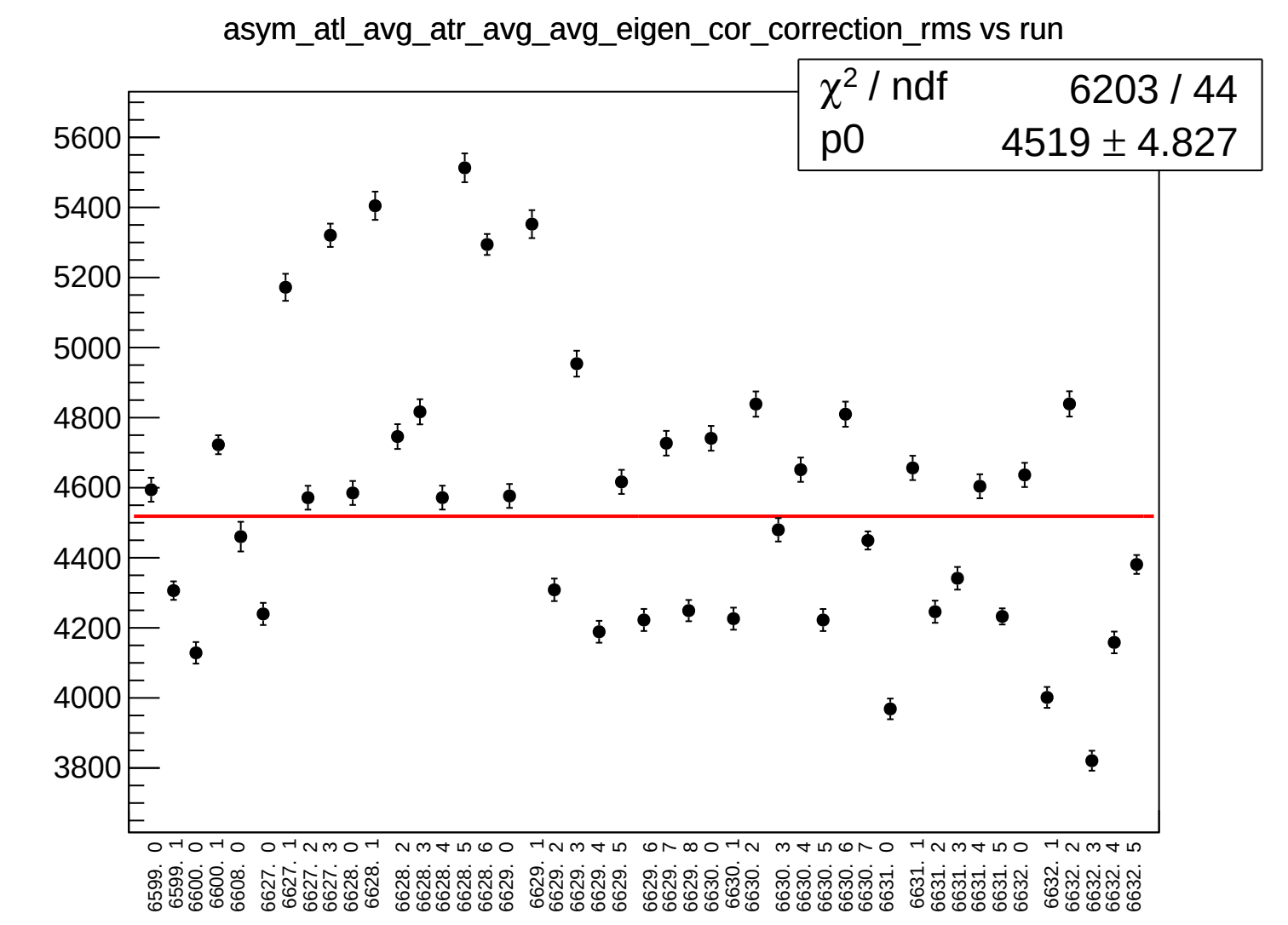
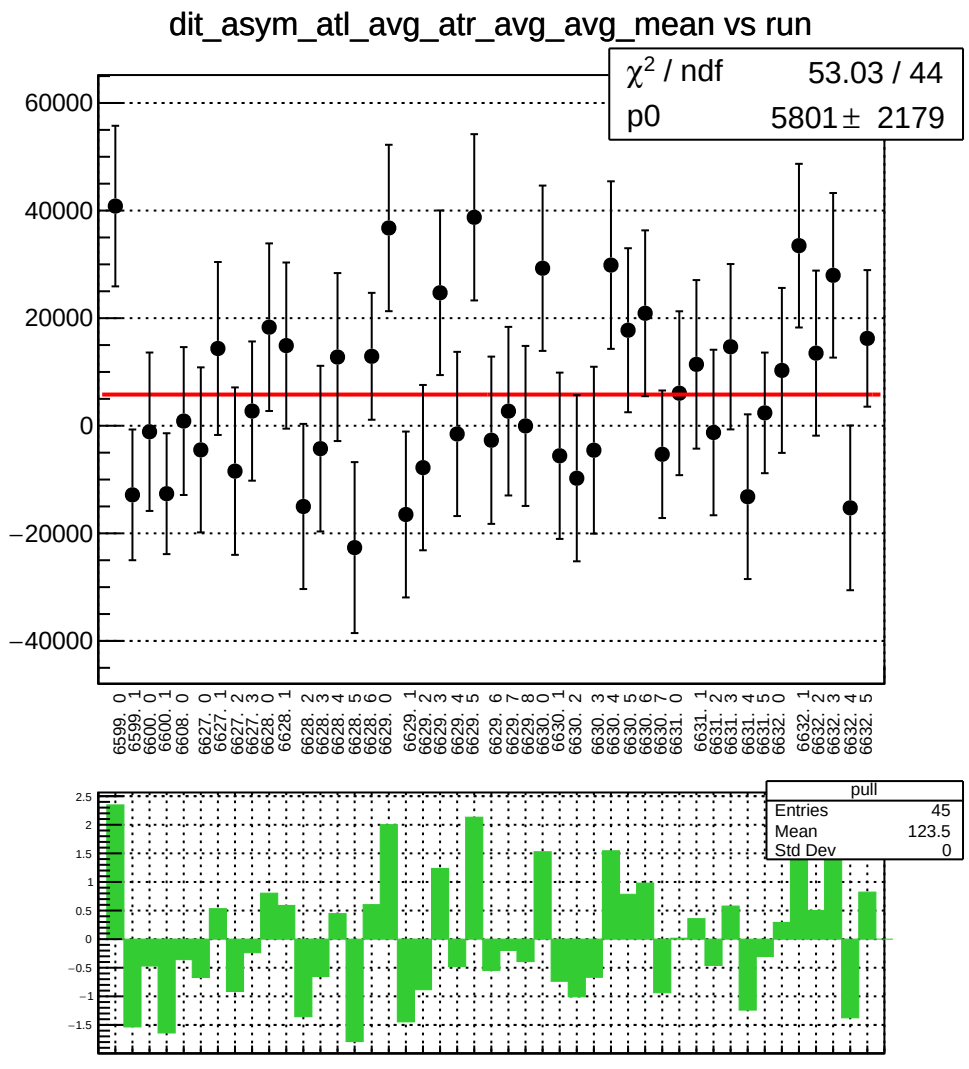
6632. 4
6632. 5

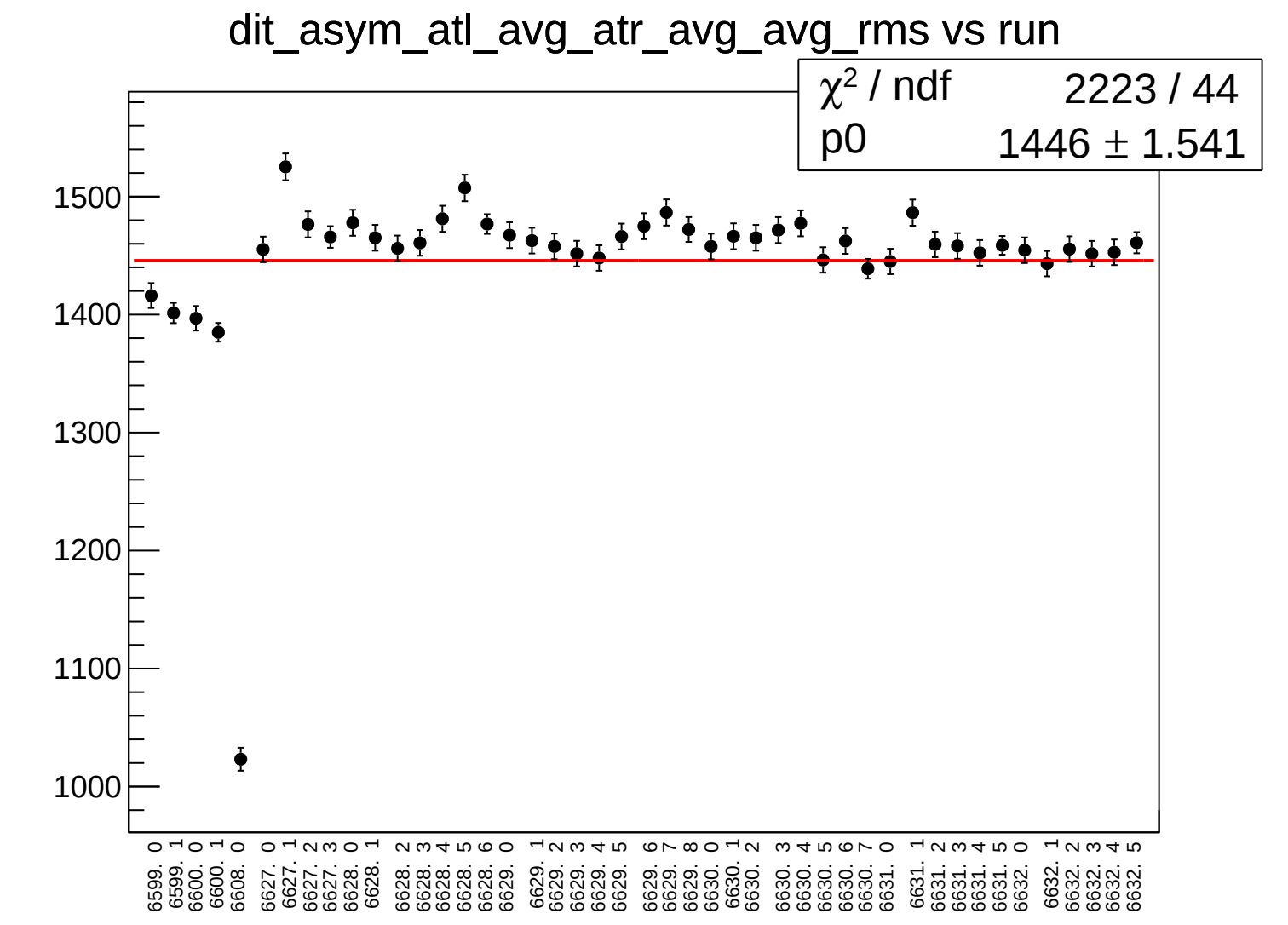

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 45.66 / 44
p0 4489 ± 2076
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 177.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.01606
Std Dev 1.007
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

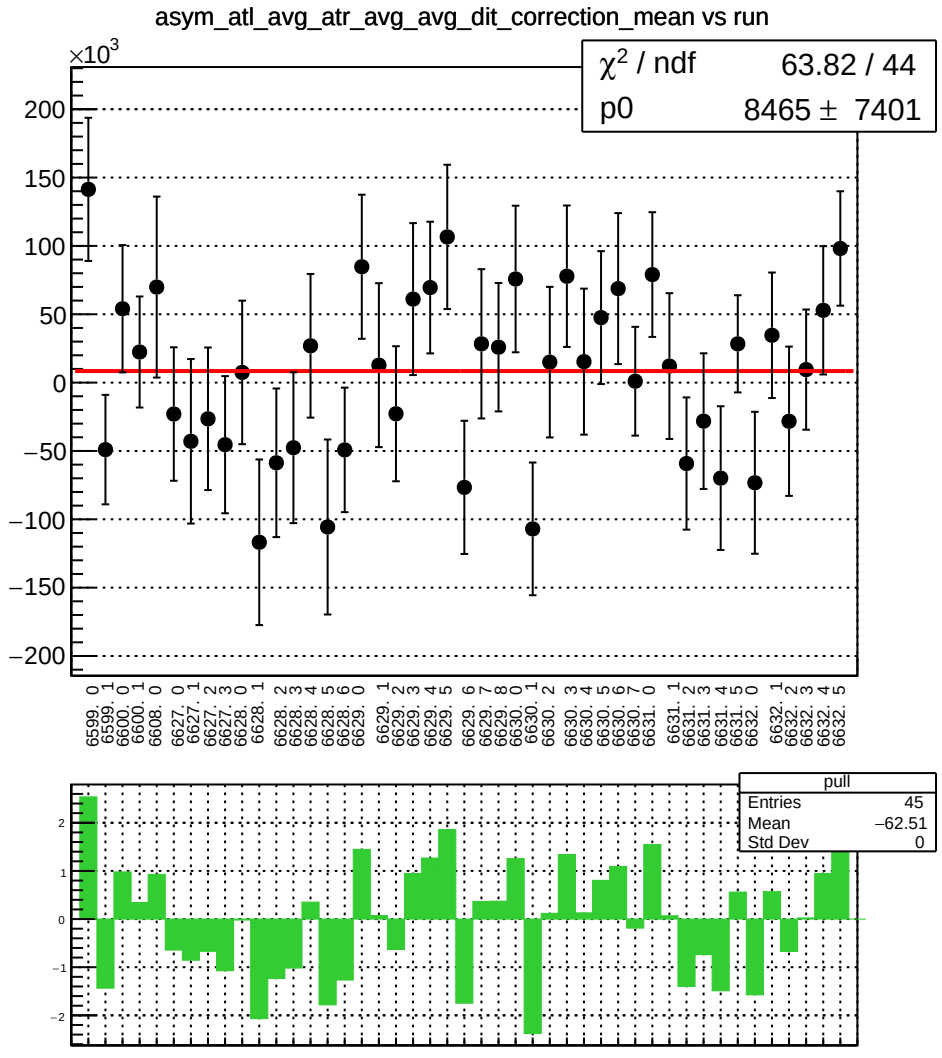

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 130.7 / 44
p0 1379 ± 1.468
1410
1400
1390
1380
1370
1360
1350
1340
1330
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

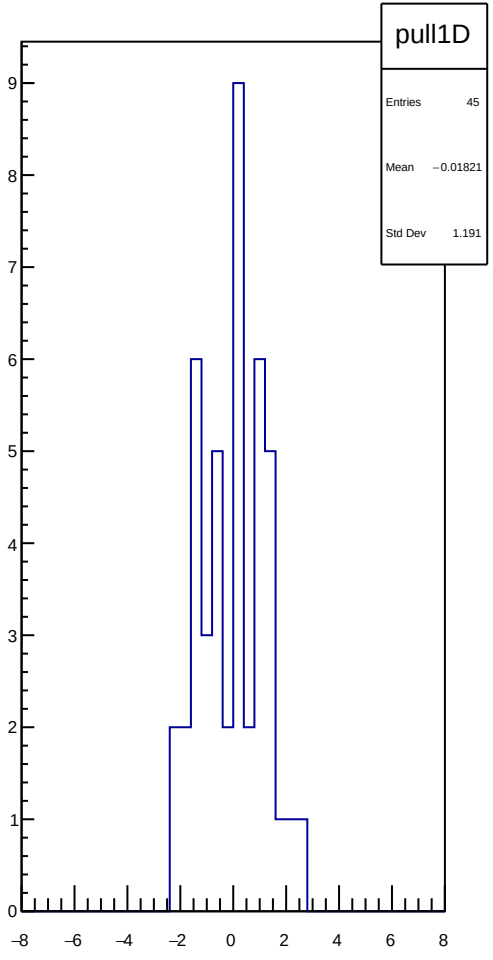

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 62.54 / 44
p0 7119 ± 6826
200
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −54.18
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02231
Std Dev 1.179
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

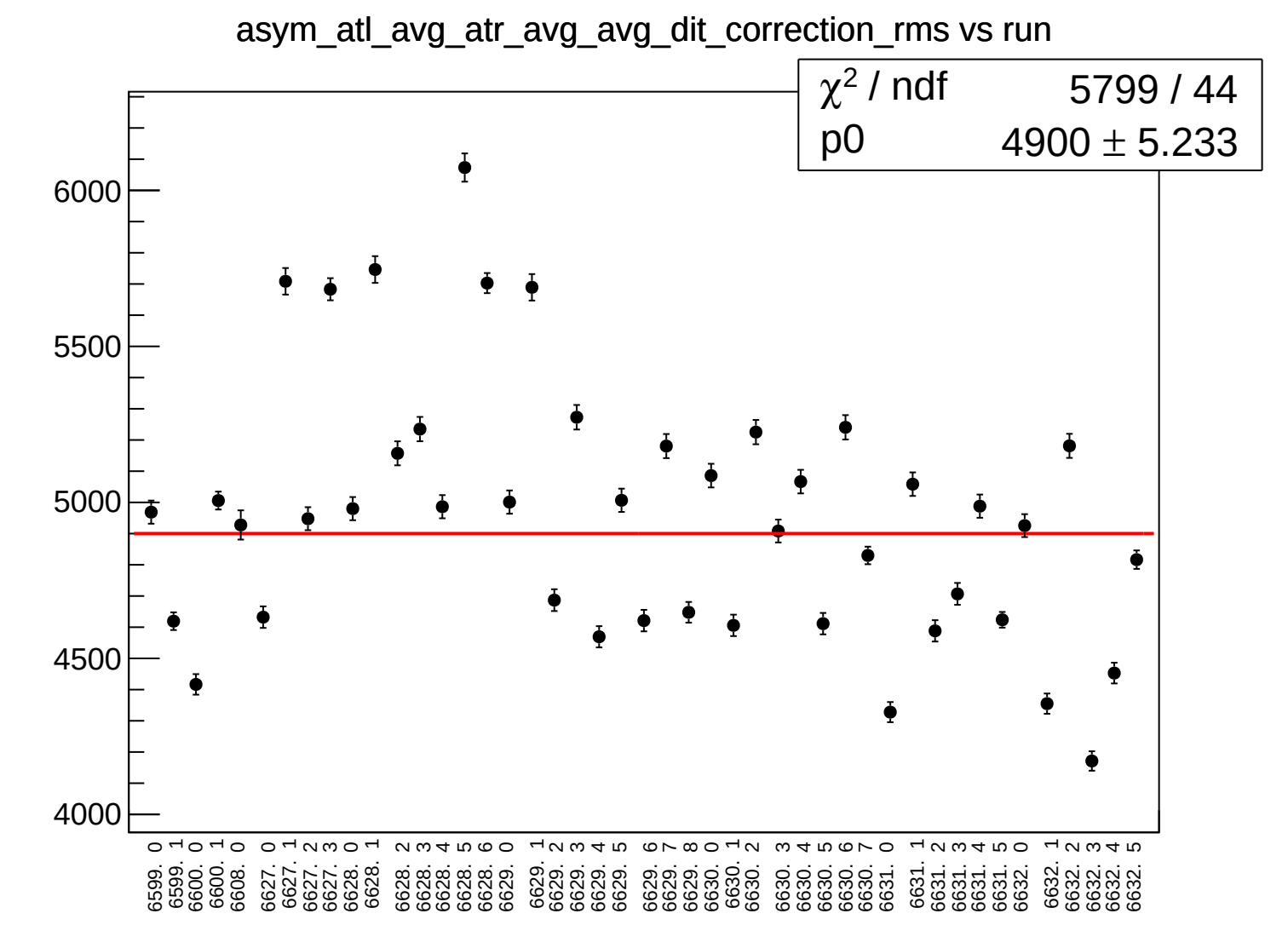

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 6203 / 44
p0 4519 ± 4.827
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

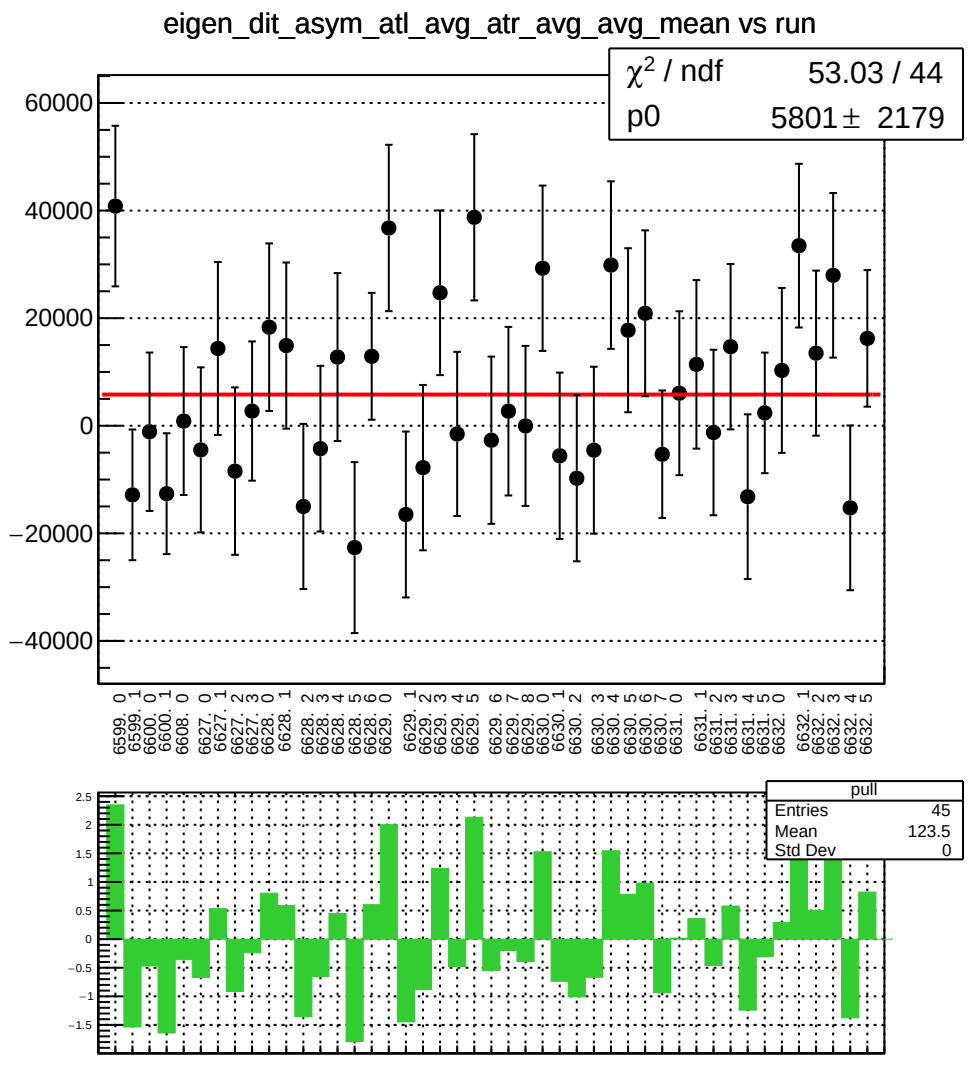

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 53.03 / 44
p0 5801 ± 2179
60000
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 123.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.02379
Std Dev 1.085
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

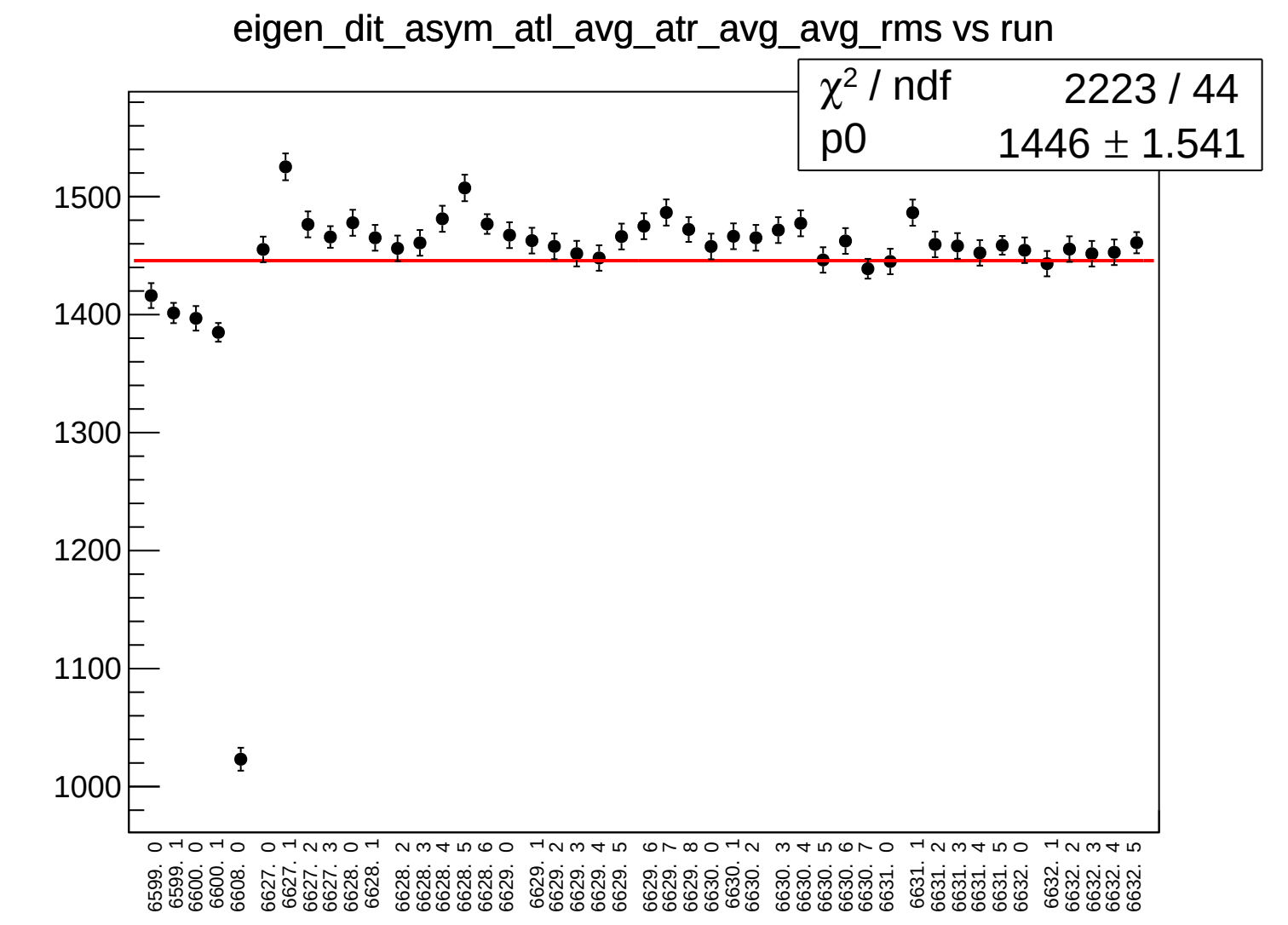

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 2223 / 44
p0 1446 ± 1.541
1500
1400
1300
1200
1100
1000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 63.82 / 44
p0 8465 ± 7401
200
150
100
50
0
−50
−100
−150
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −62.51
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.01821
Std Dev 1.191
9
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 5799 / 44
p0 4900 ± 5.233
6000
5500
5000
4500
4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 53.03 / 44
p0 5801 ± 2179
60000
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 123.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.02379
Std Dev 1.085
8
7
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 2223 / 44
p0 1446 ± 1.541
1500
1400
1300
1200
1100
1000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 2
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6629. 6
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6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6632. 0
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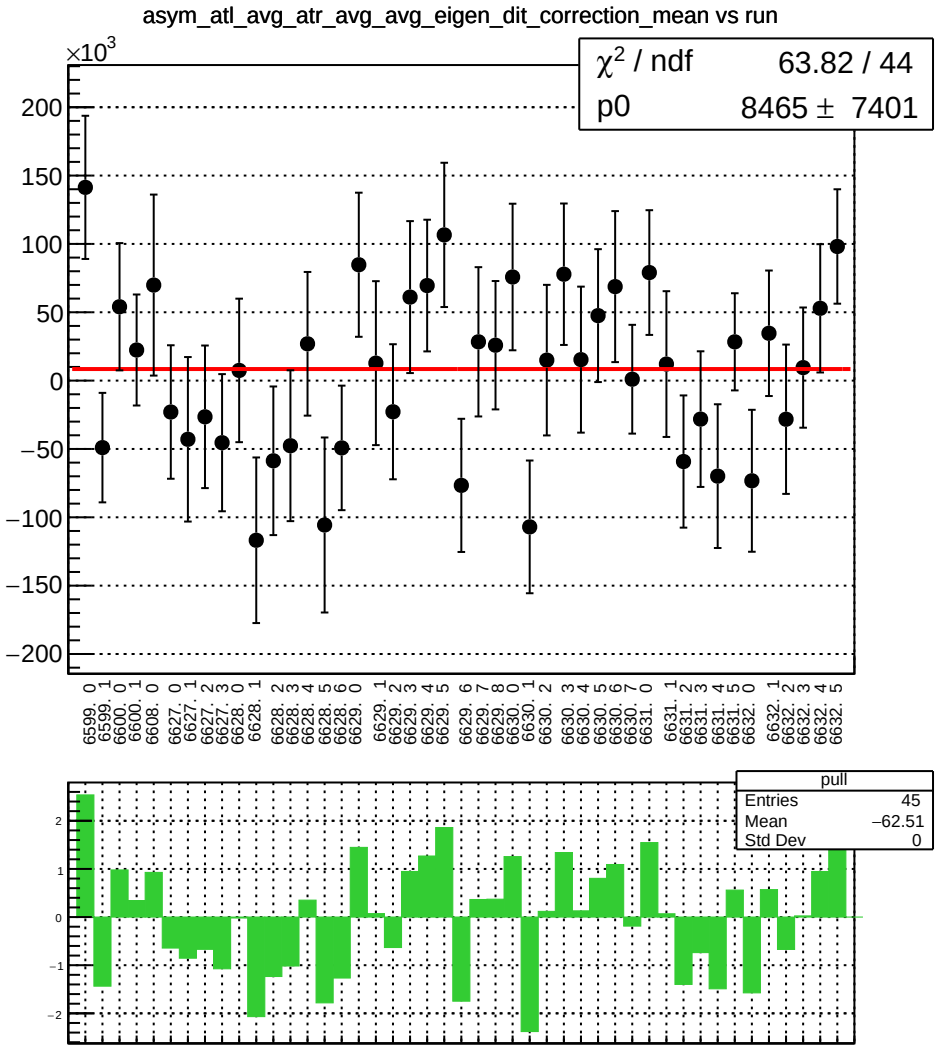
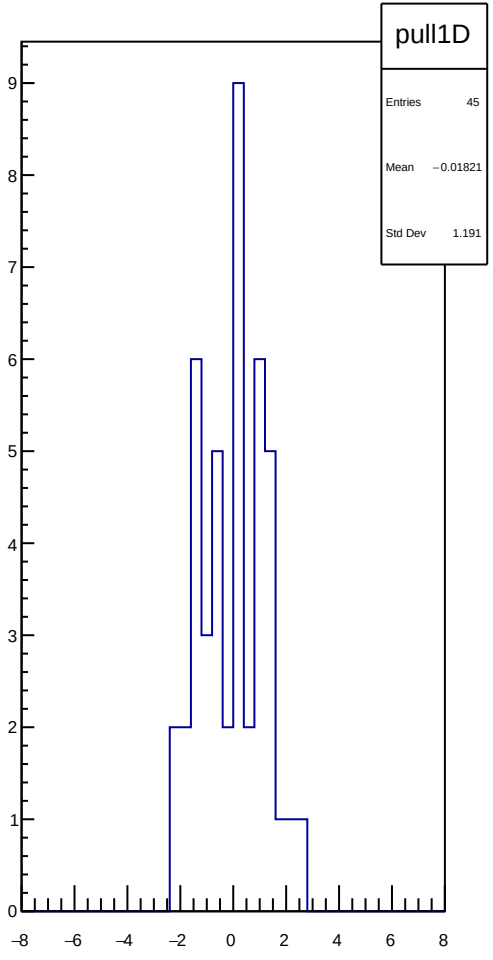
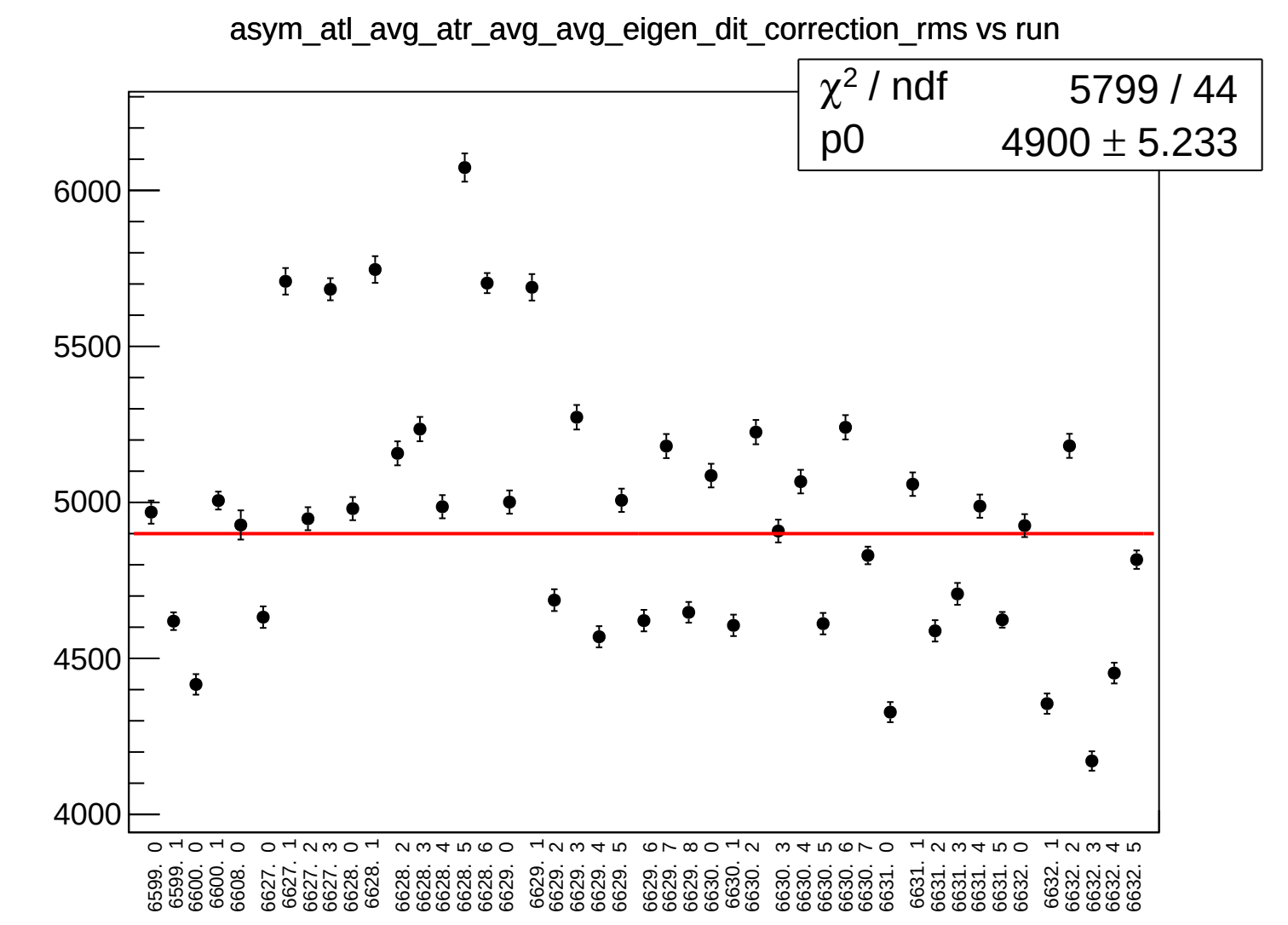
6632. 4
6632. 5


asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 63.82 / 44
p0 8465 ± 7401
200
150
100
50
0
−50
−100
−150
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −62.51
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.01821
Std Dev 1.191
9
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 5799 / 44
p0 4900 ± 5.233
6000
5500
5000
4500
4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
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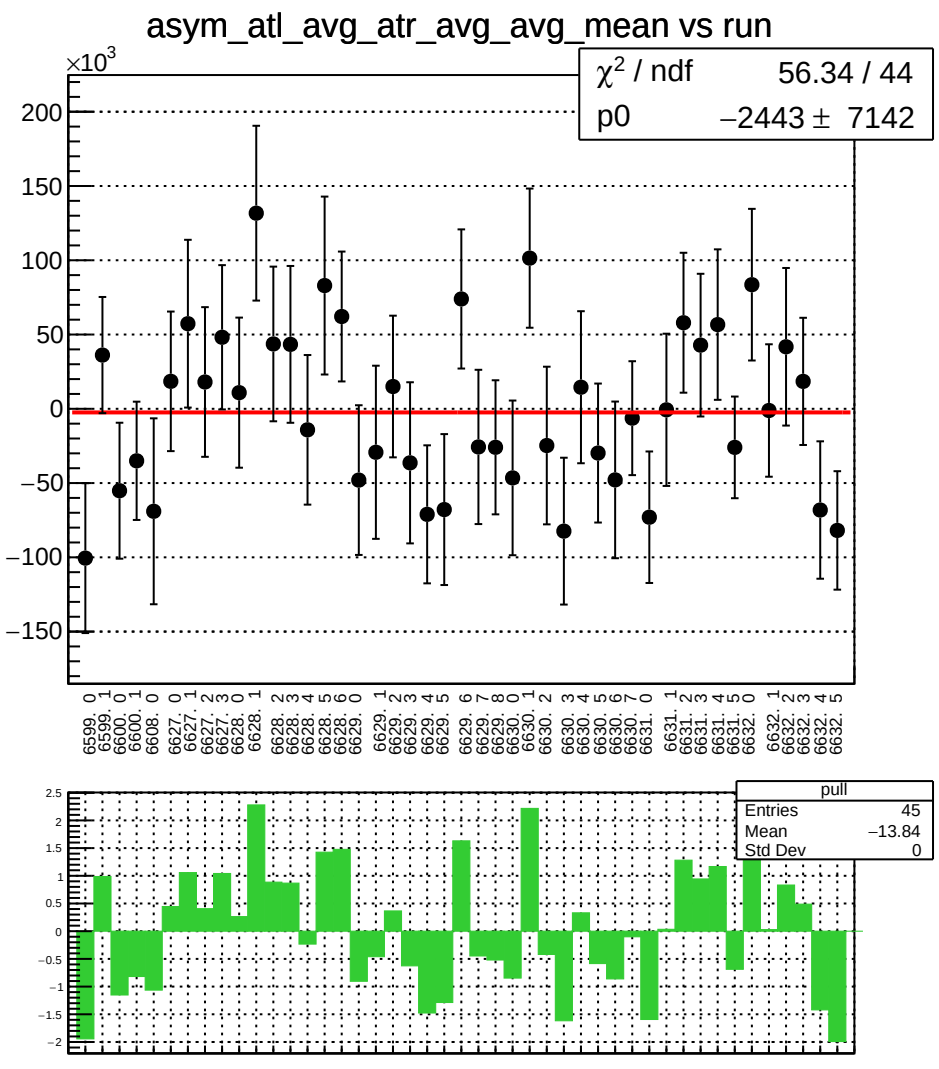
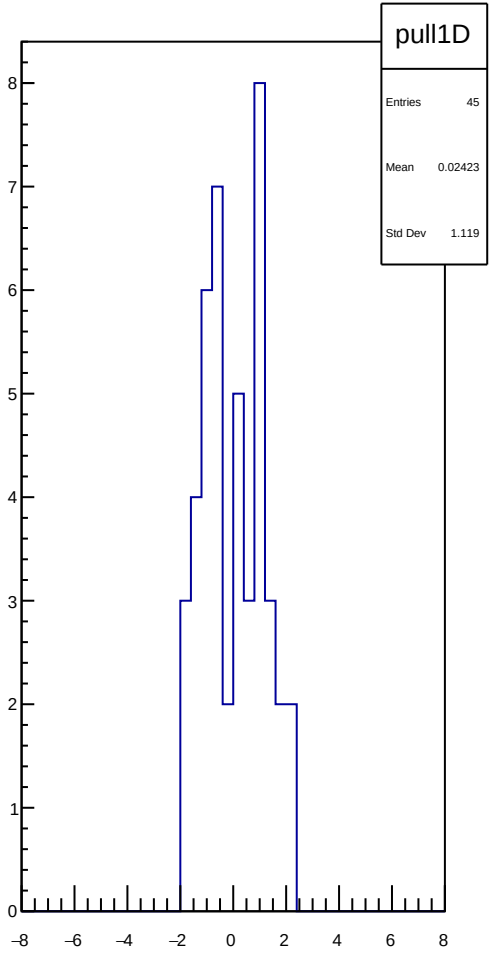
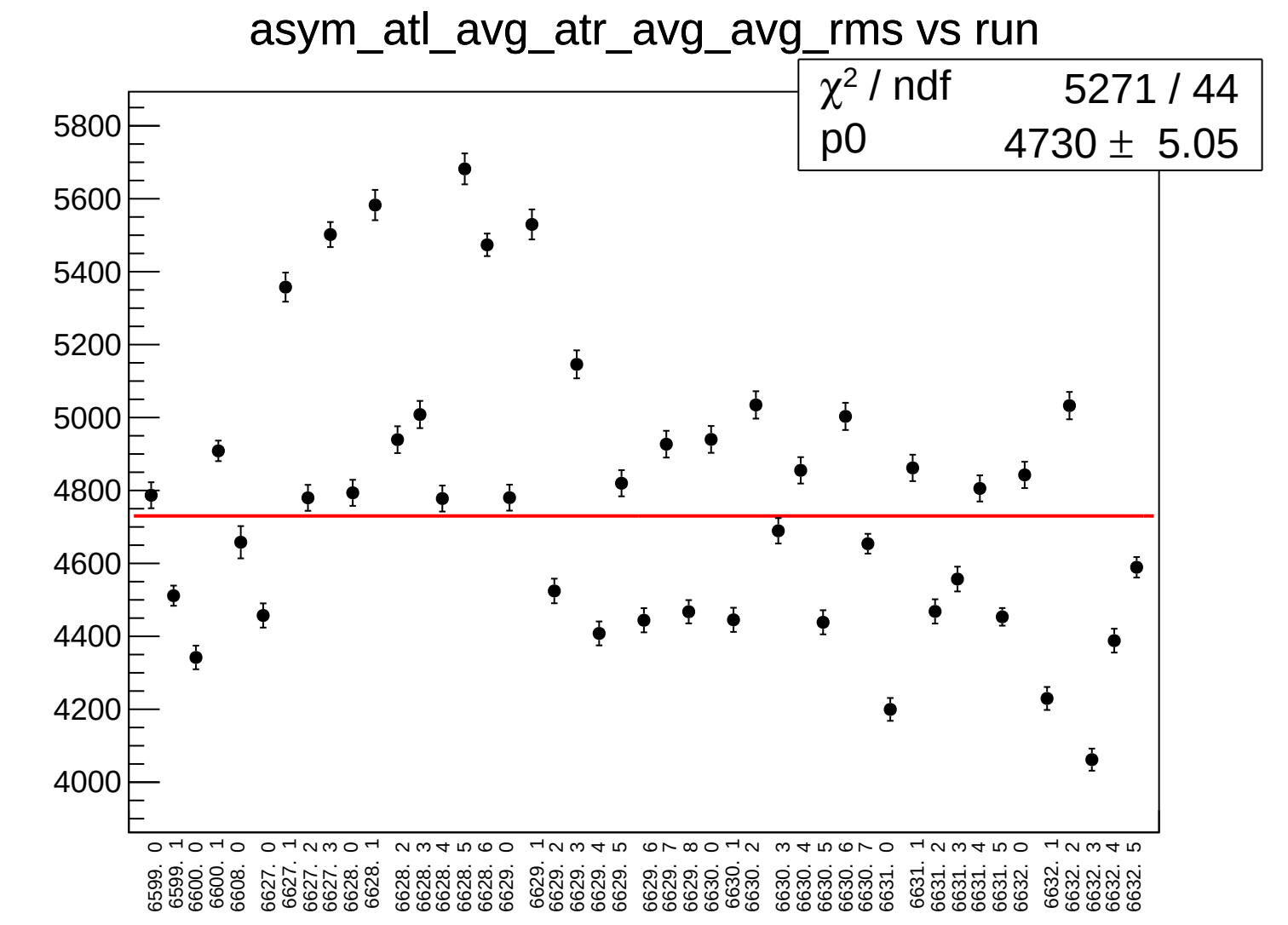
6632. 4
6632. 5


asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 56.34 / 44
p0 −2443 ± 7142
200
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −13.84
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.02423
Std Dev 1.119
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 5271 / 44
p0 4730 ± 5.05
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
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6629. 7
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6630. 1
6630. 2
6630. 3
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6630. 6
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6631. 0
6631. 1
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6631. 4
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6632. 2
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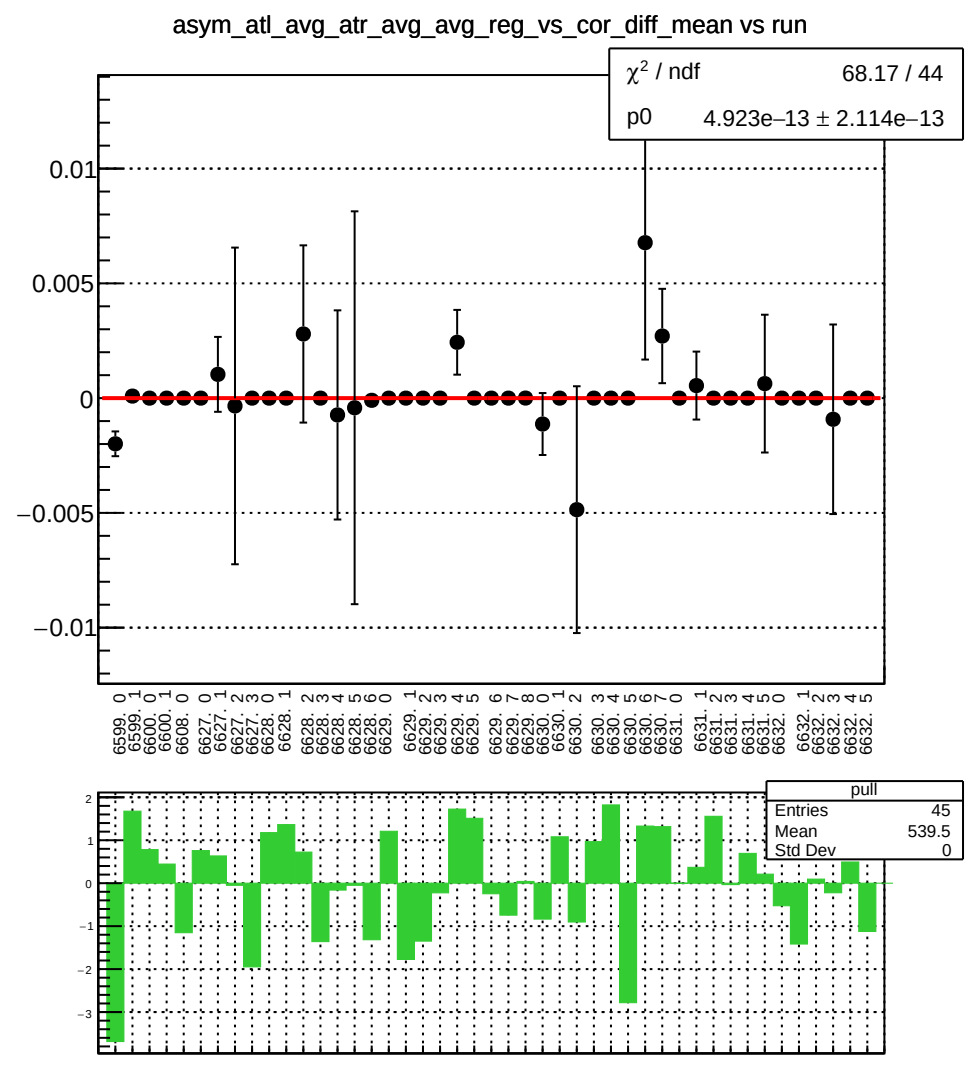
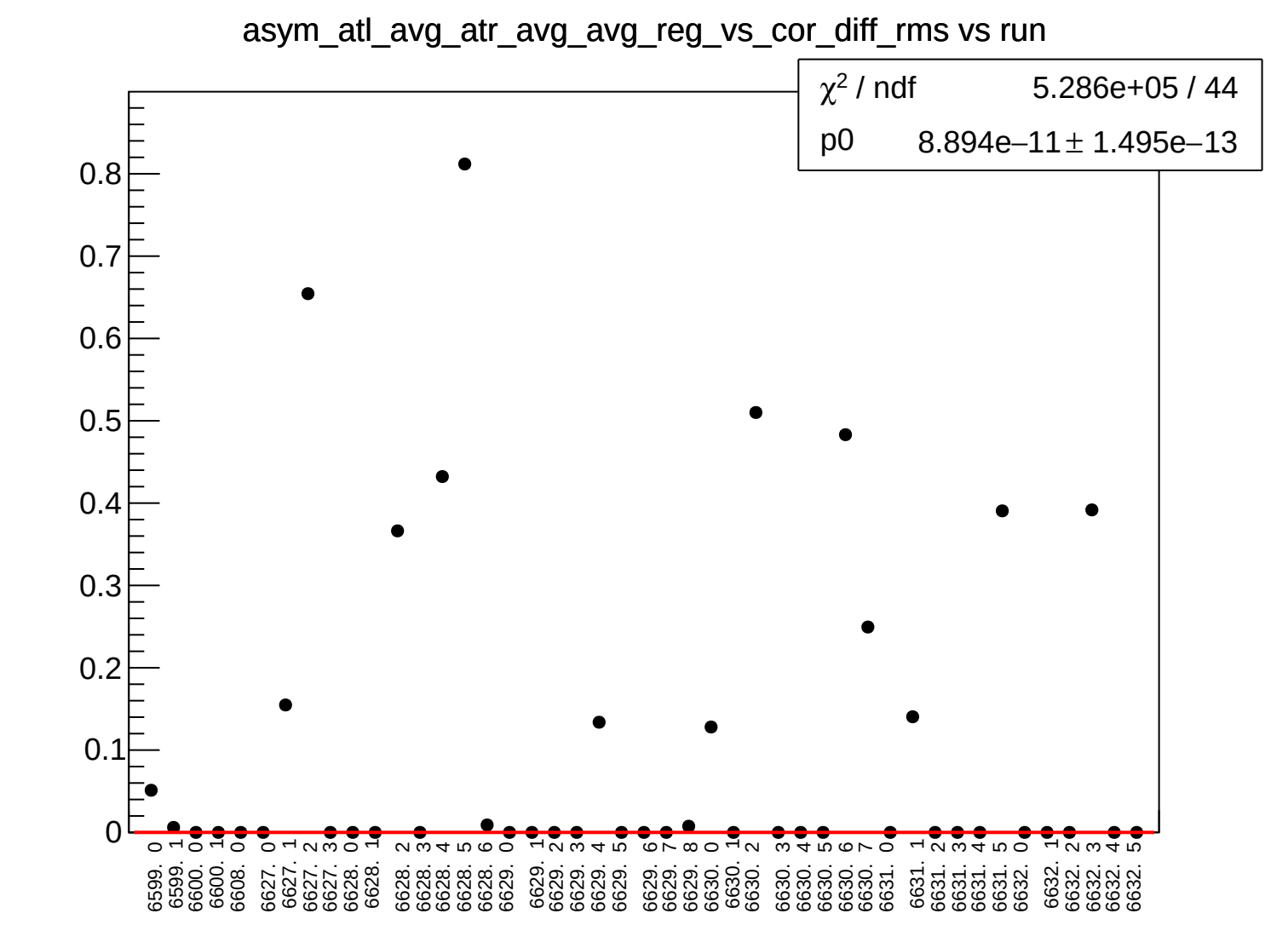
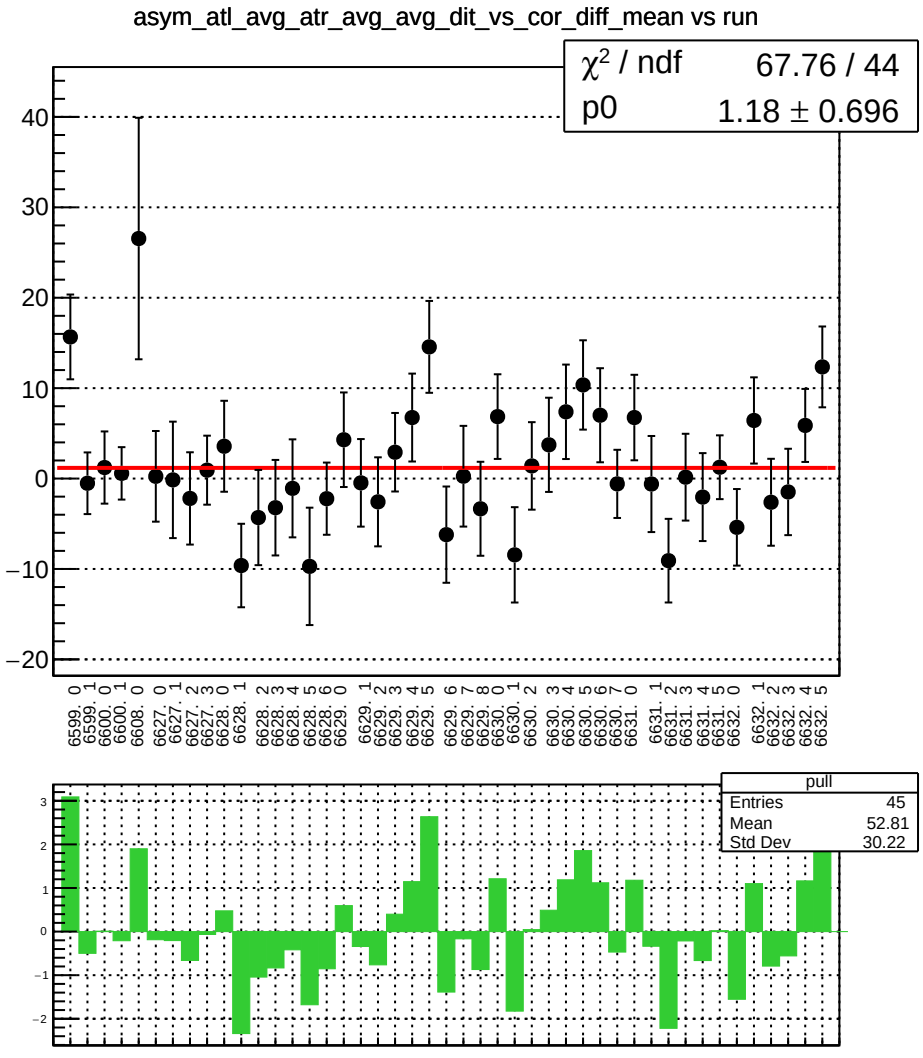
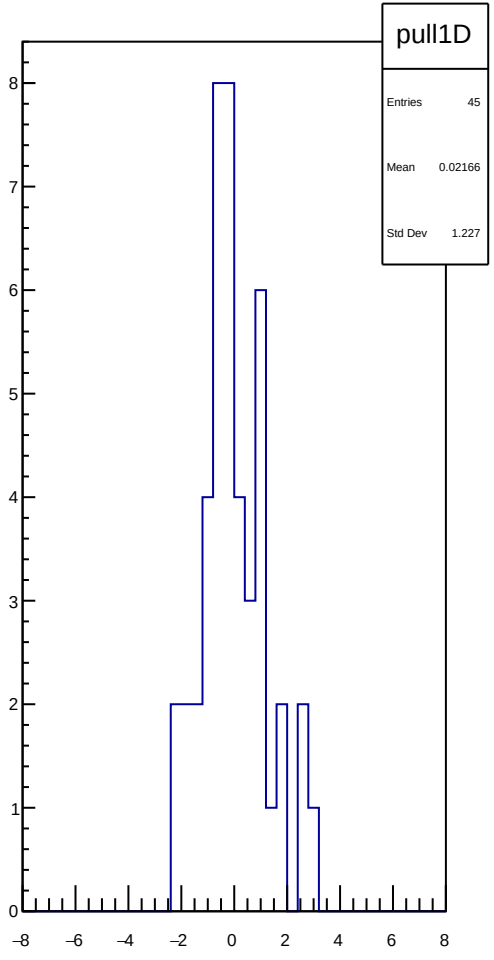
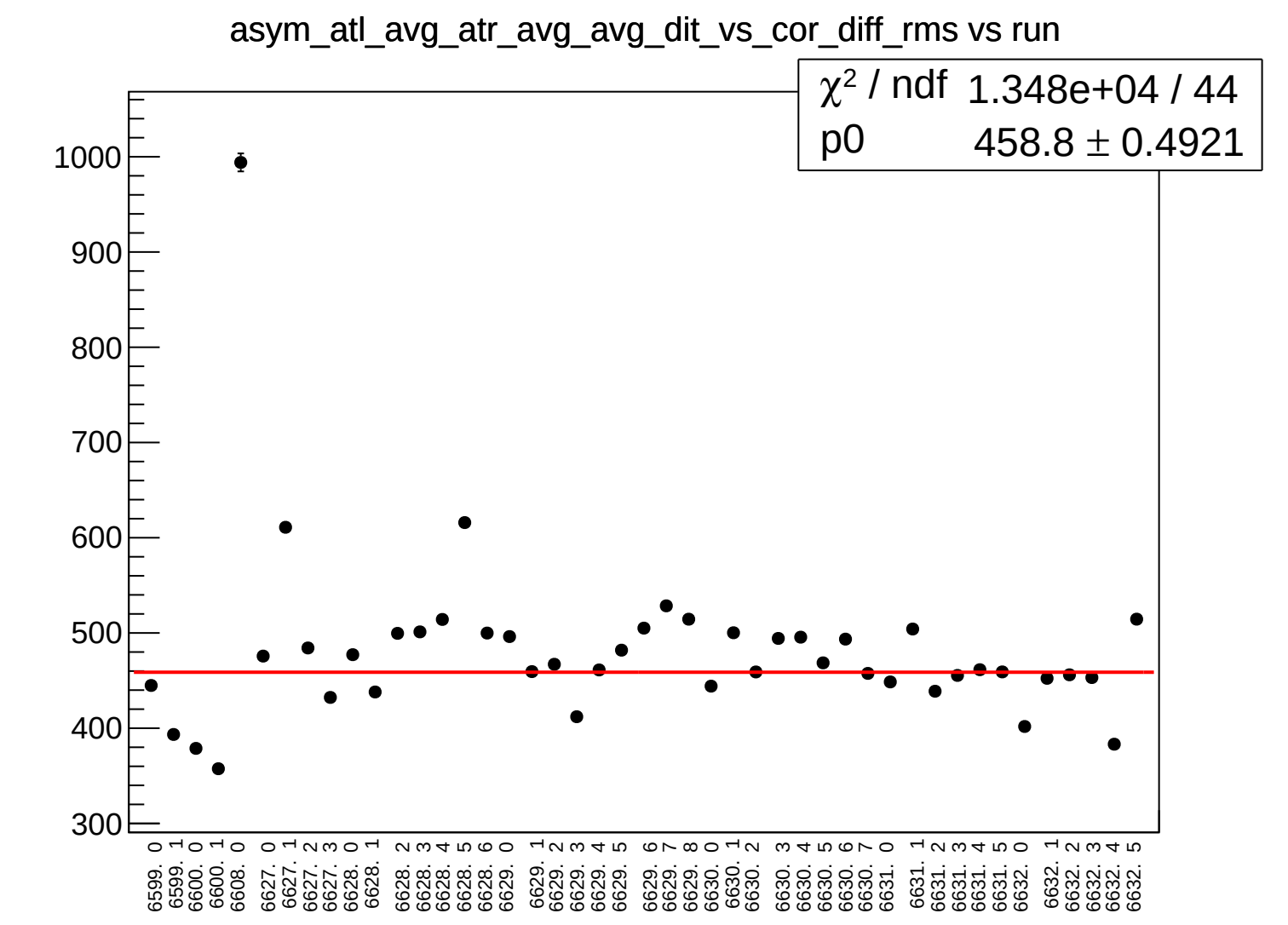
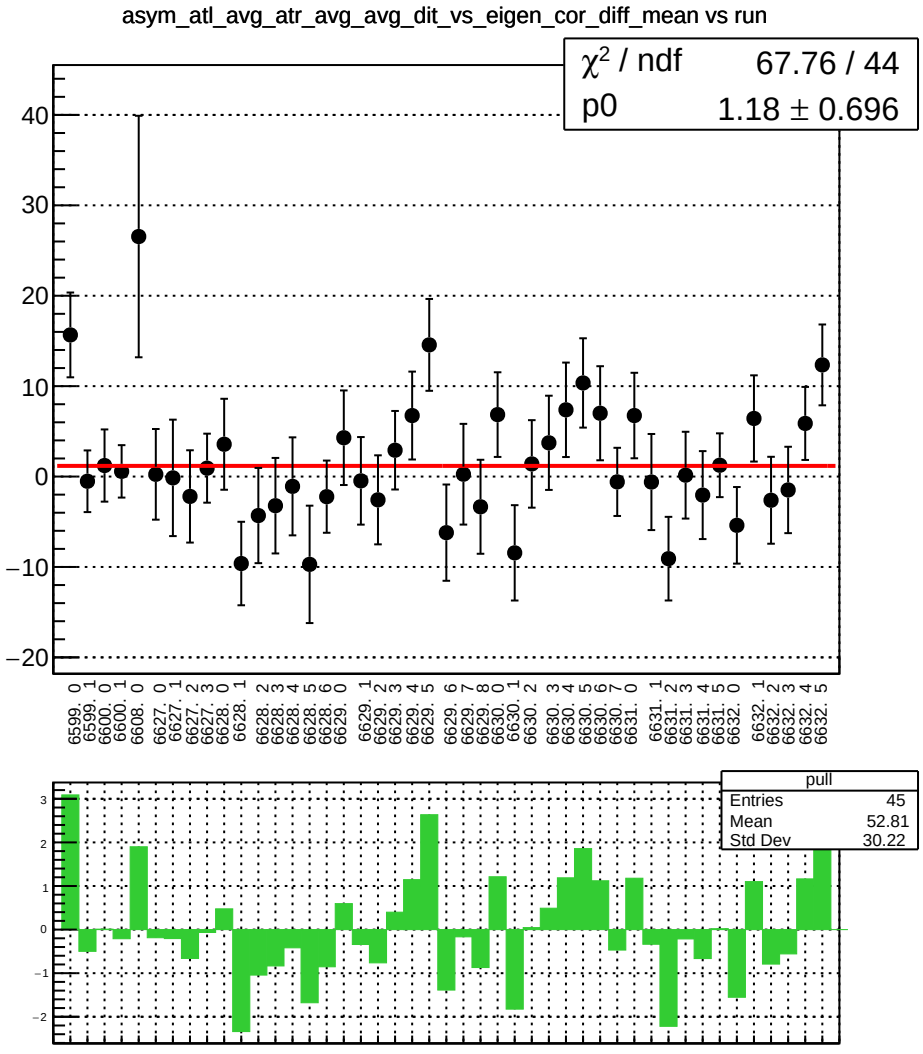

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 68.17 / 44
p0 4.923e−13 ± 2.114e−13
0.01
0.005
0
−0.005
−0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 539.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.001713
Std Dev 1.231
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

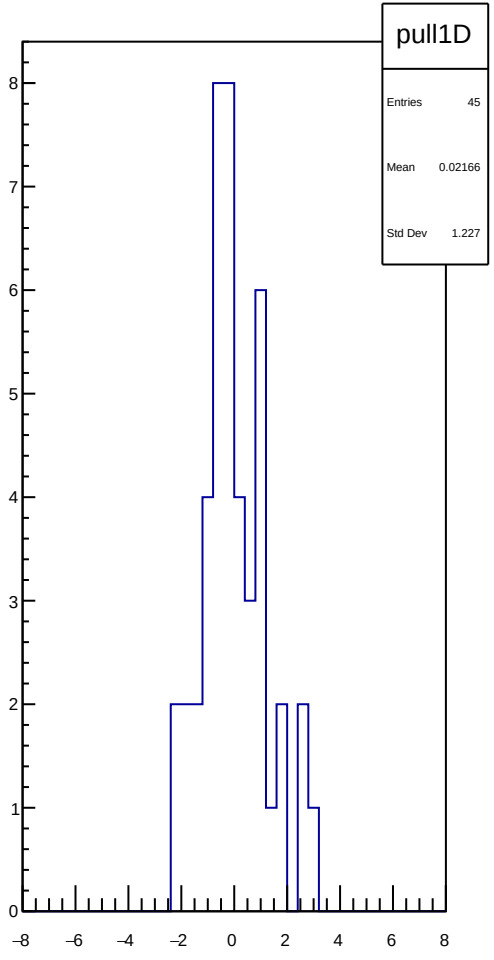

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.286e+05 / 44
p0 8.894e−11 ± 1.495e−13
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

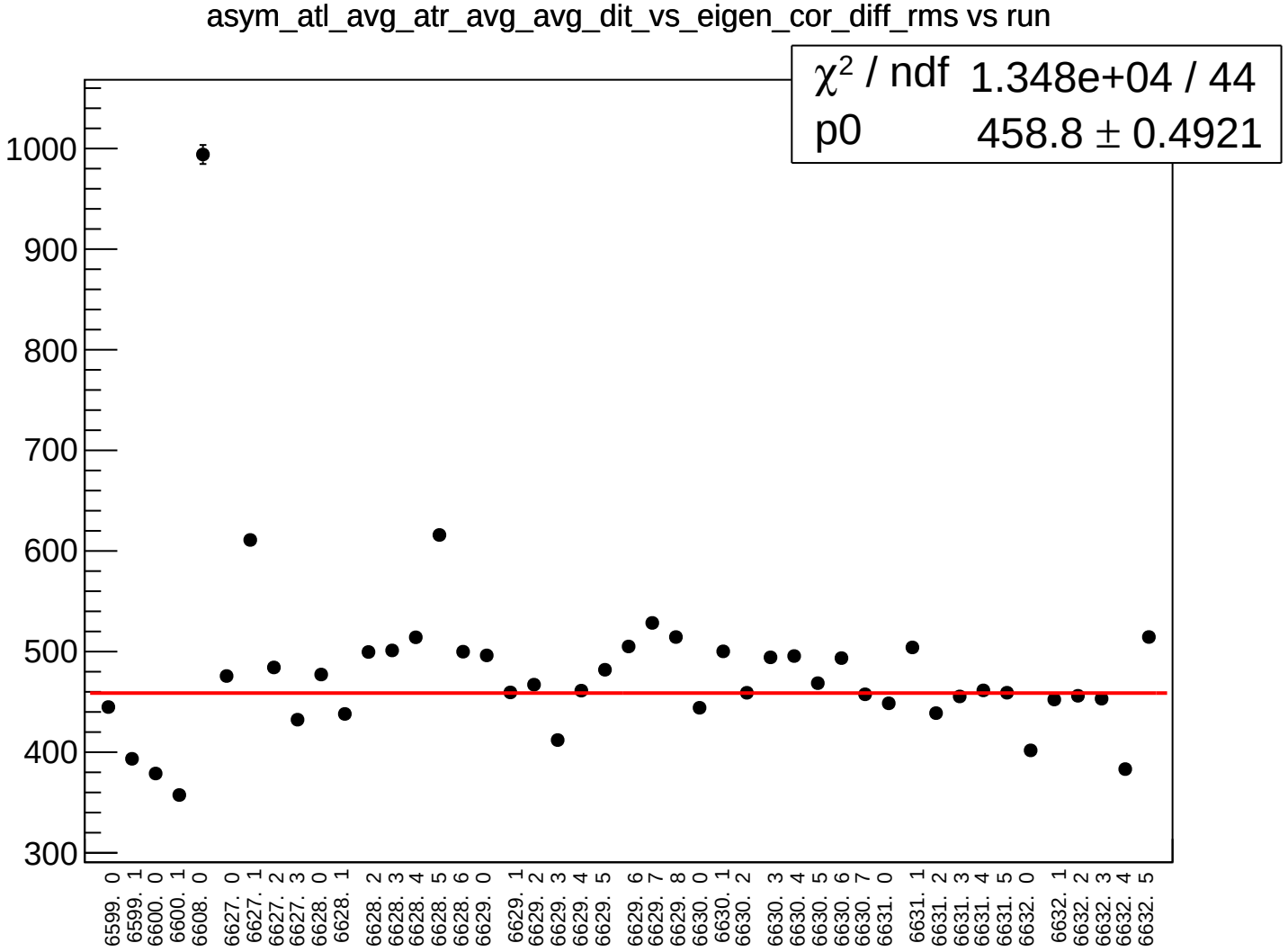

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 67.76 / 44
p0 1.18 ± 0.696
pull
Entries 45
Mean 52.81
Std Dev 30.22

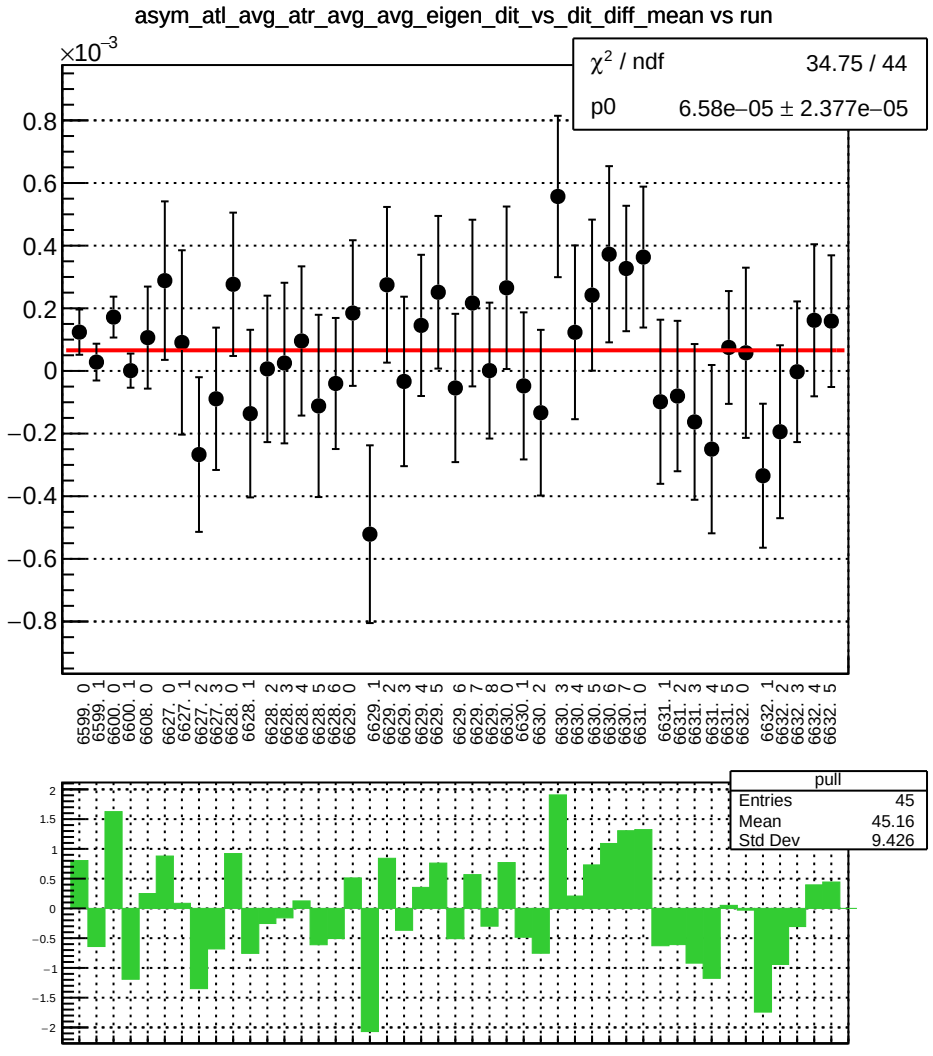

pull1D
Entries 45
Mean 0.02166
Std Dev 1.227

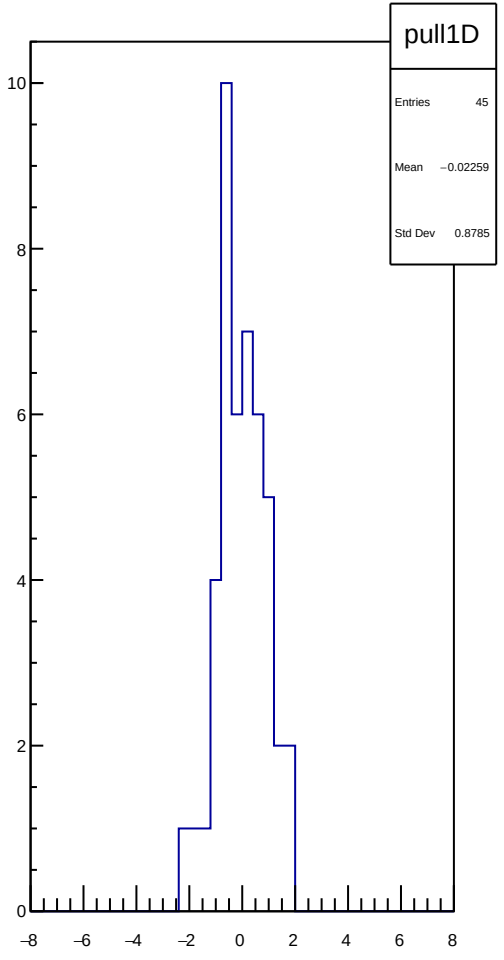

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.348e+04 / 44
p0 458.8 ± 0.4921
1000
900
800
700
600
500
400
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

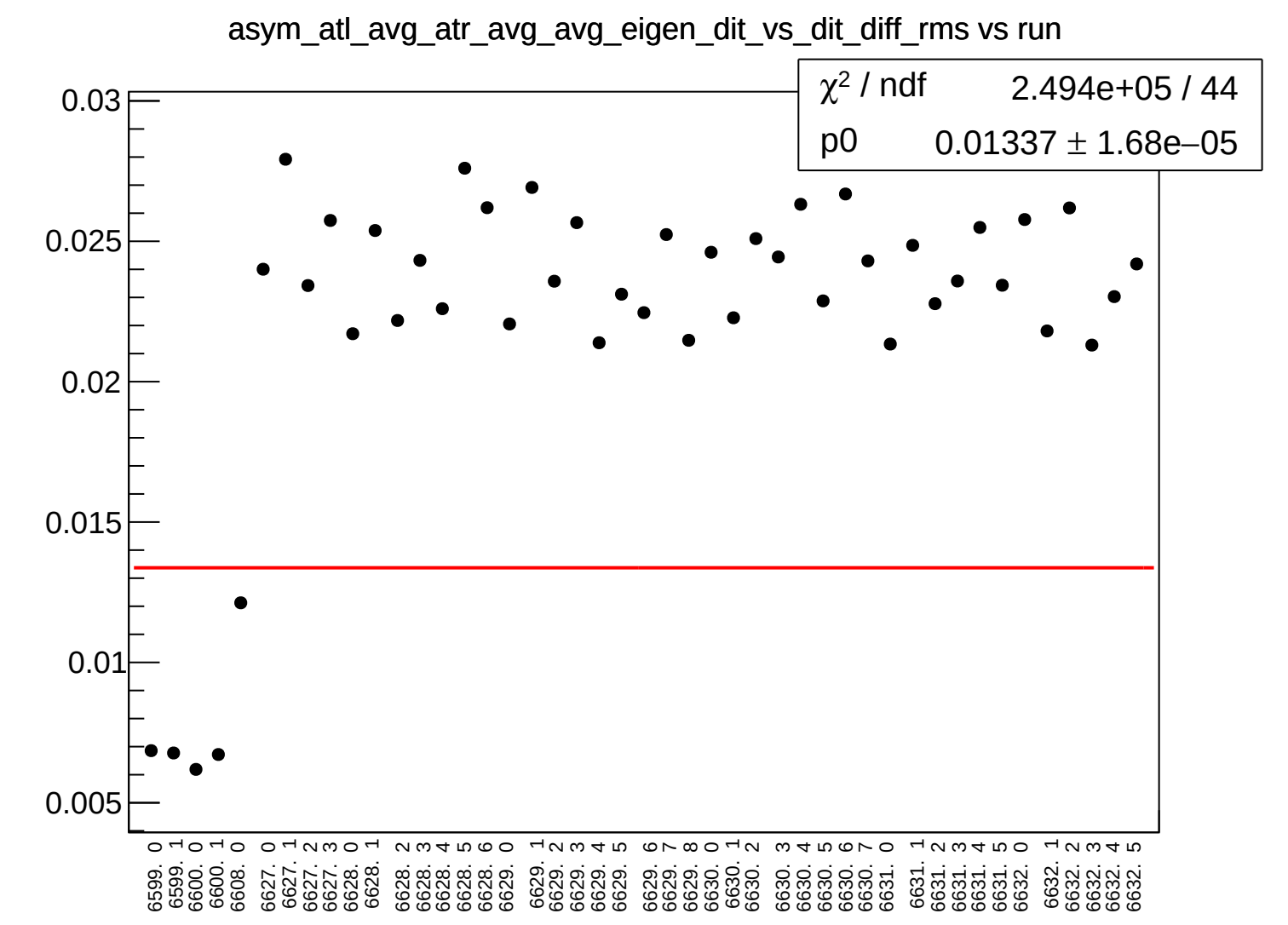

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.76 / 44
p0 1.18 ± 0.696
pull
Entries 45
Mean 52.81
Std Dev 30.22

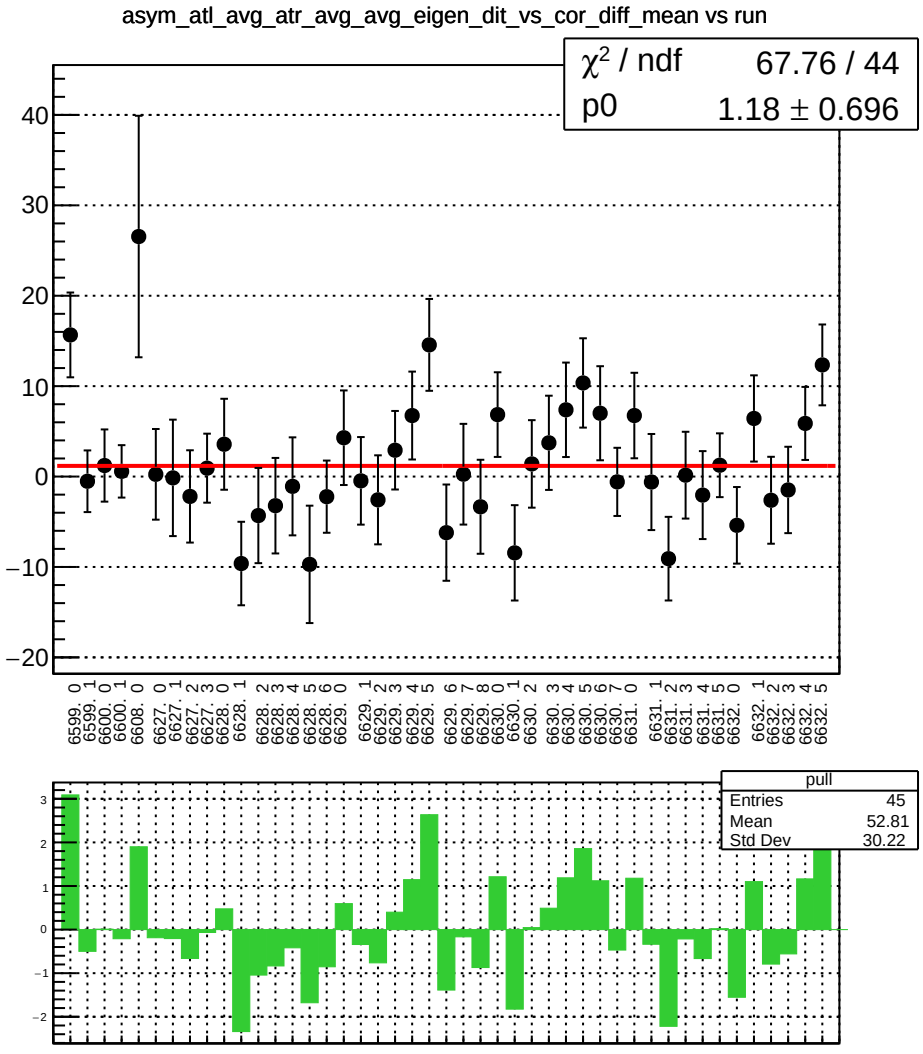

pull1D
Entries 45
Mean 0.02166
Std Dev 1.227

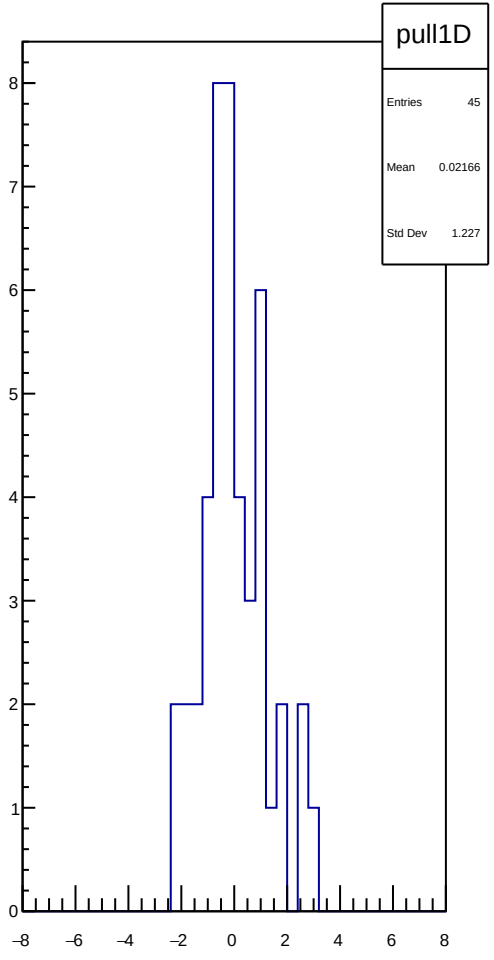

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.348e+04 / 44
p0 458.8 ± 0.4921
1000
900
800
700
600
500
400
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

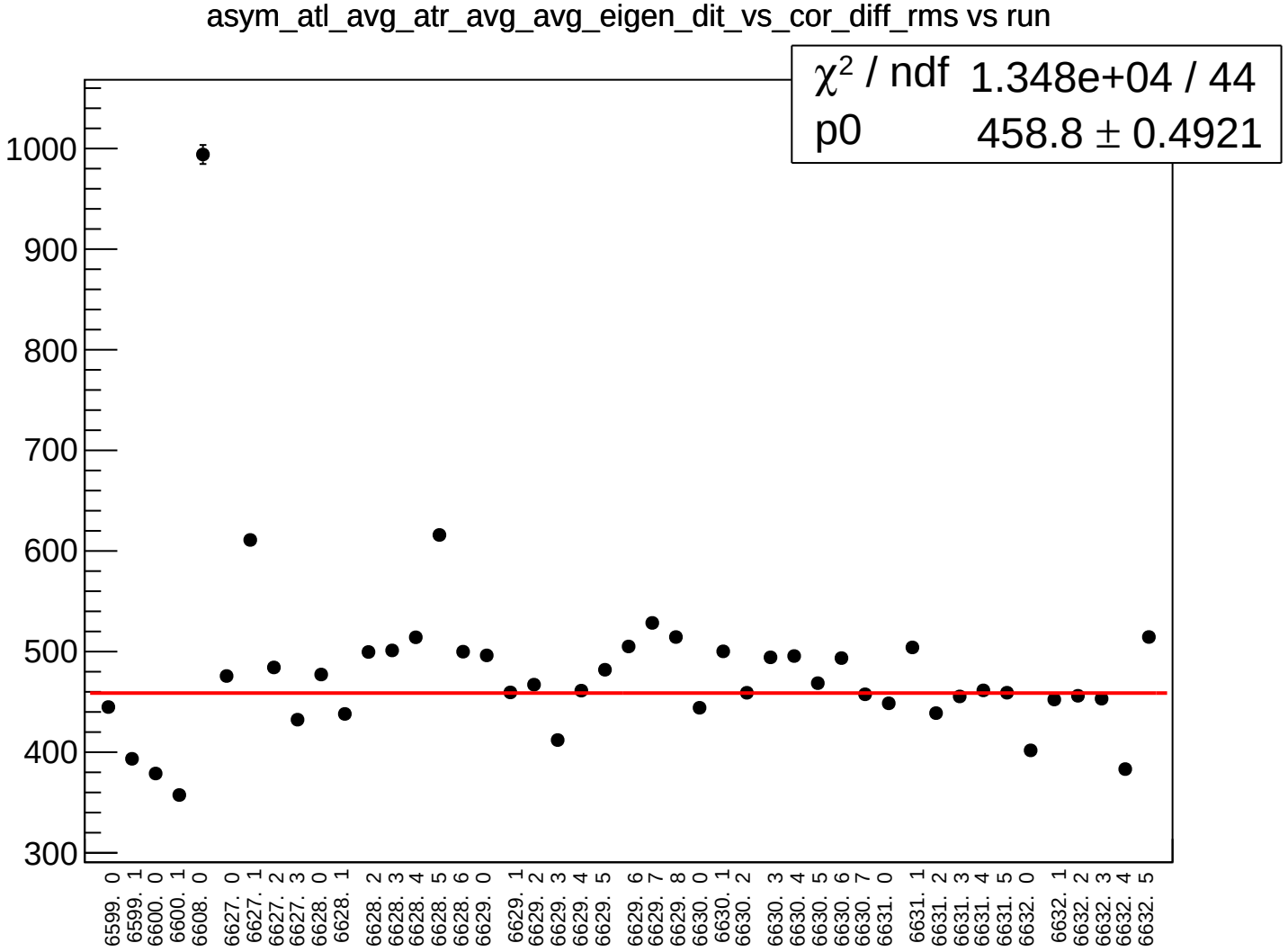

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 34.75 / 44
p0 6.58e−05 ± 2.377e−05
pull
Entries 45
Mean 45.16
Std Dev 9.426

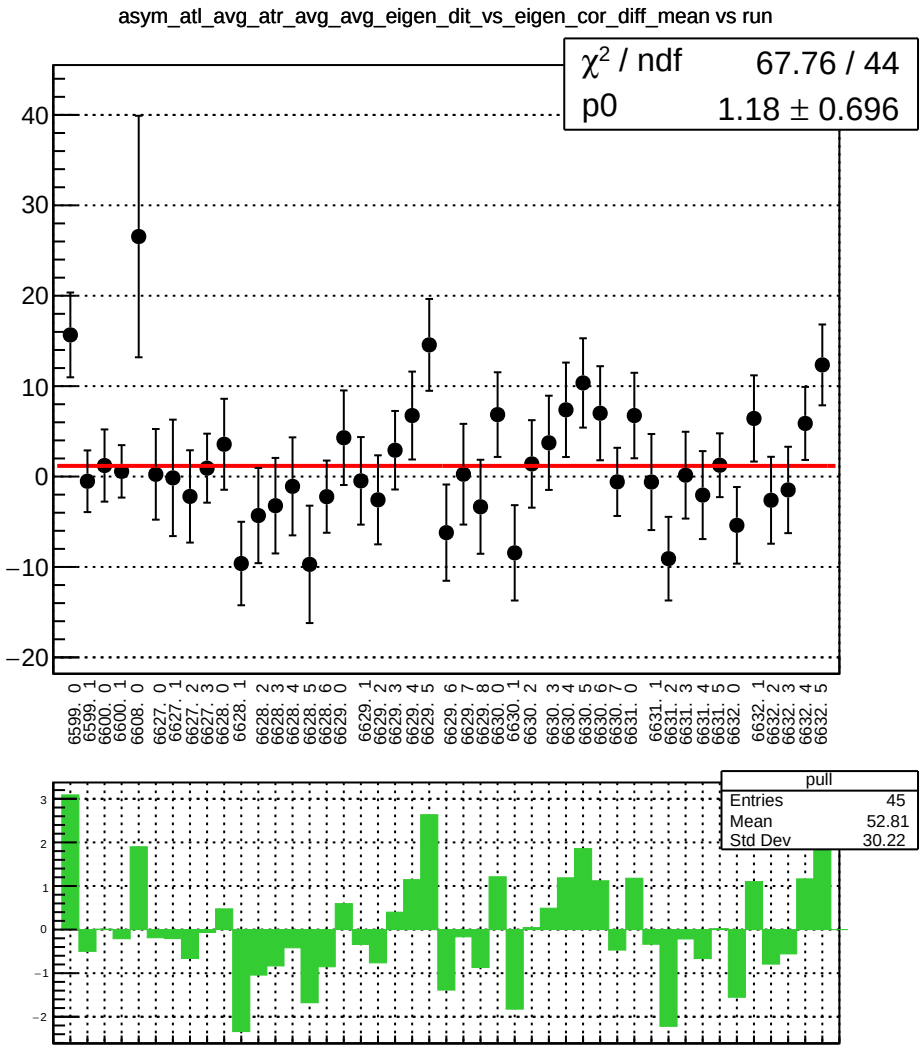

pull1D
Entries 45
Mean −0.02259
Std Dev 0.8785

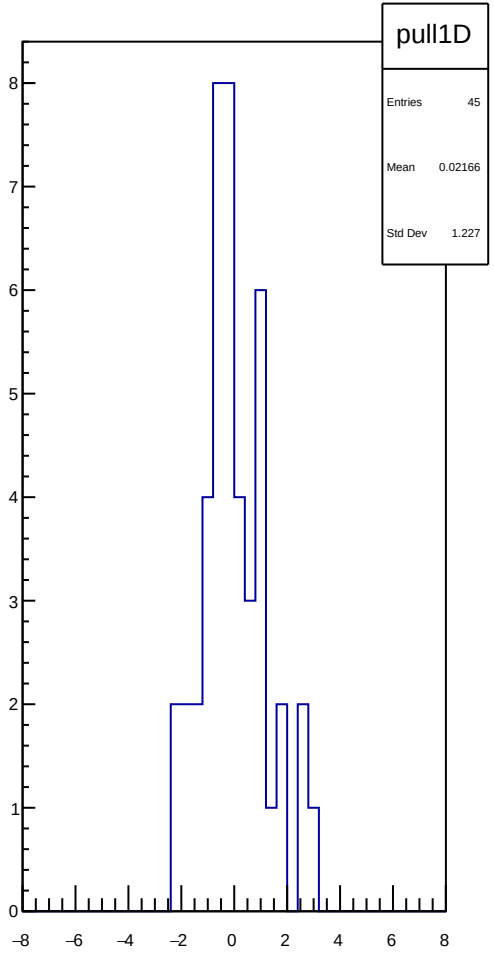

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.494e+05 / 44
p0 0.01337 ± 1.68e−05
0.03
0.025
0.02
0.015
0.01
0.005
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

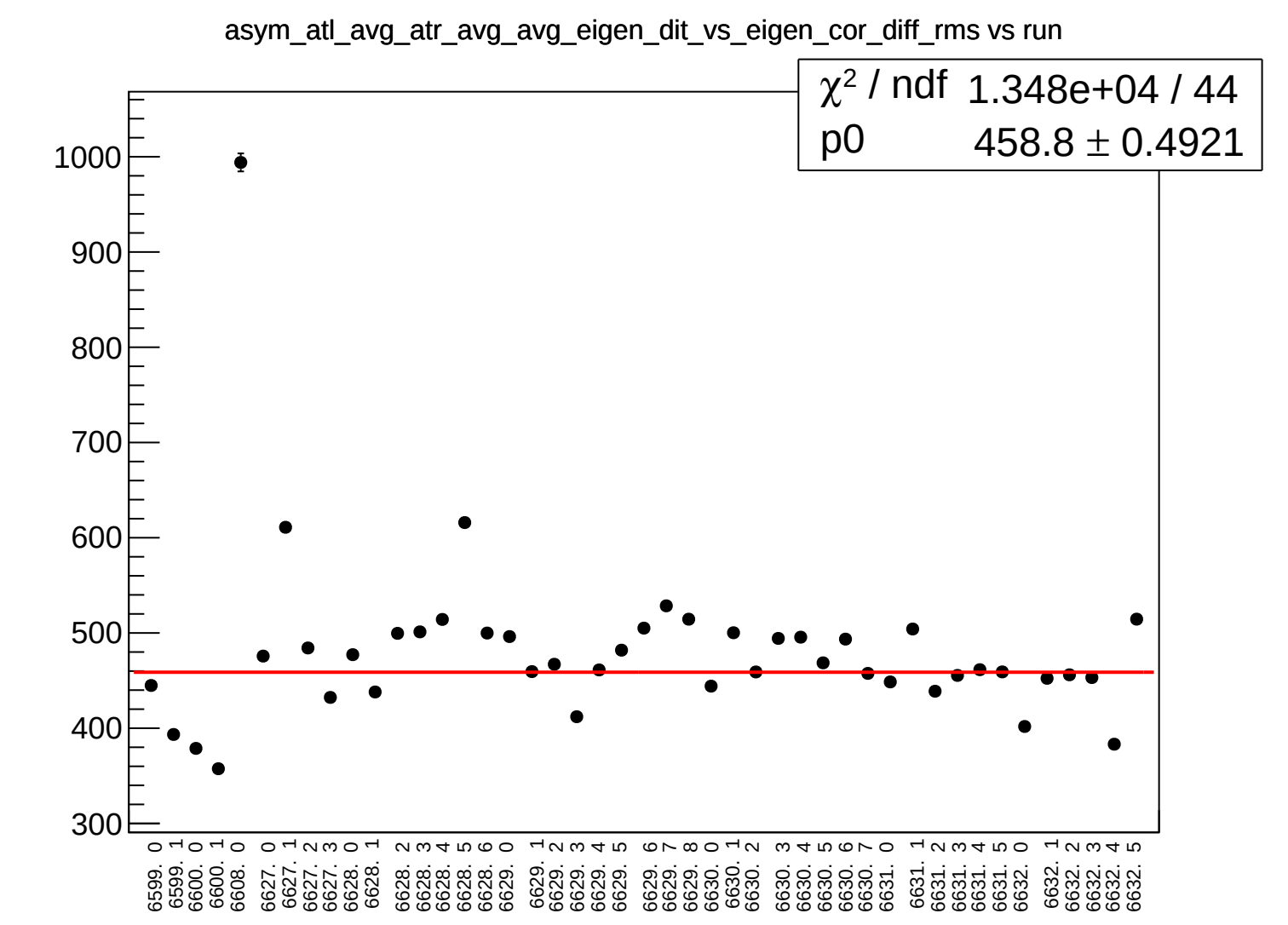

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.76 / 44
p0 1.18 ± 0.696
pull
Entries 45
Mean 52.81
Std Dev 30.22

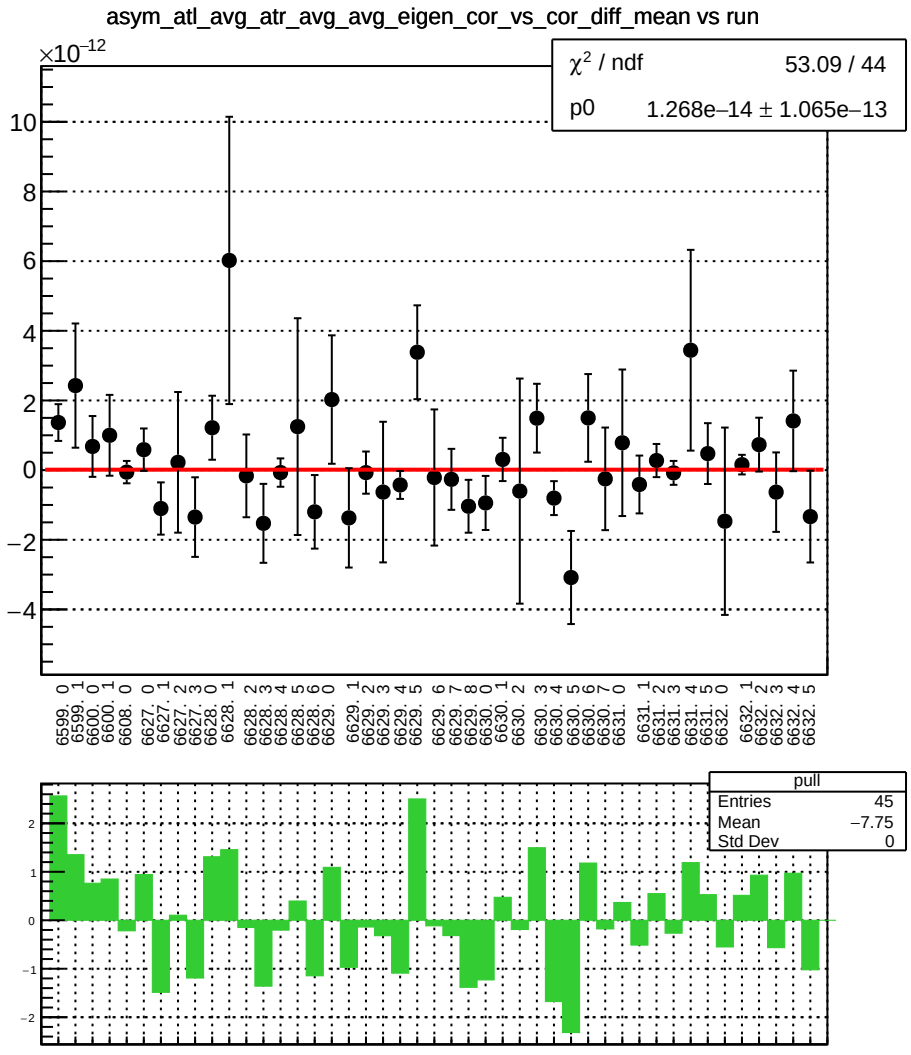

pull1D
Entries 45
Mean 0.02166
Std Dev 1.227

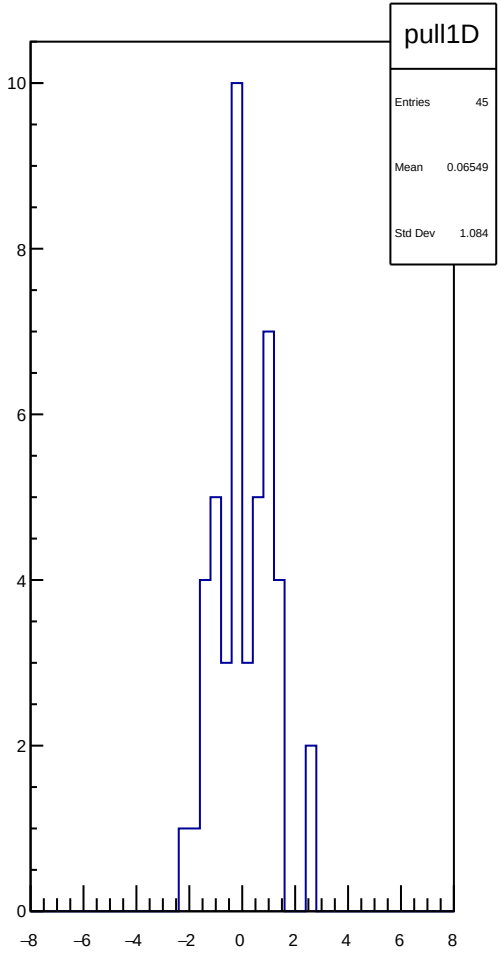

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.348e+04 / 44
p0 458.8 ± 0.4921
1000
900
800
700
600
500
400
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

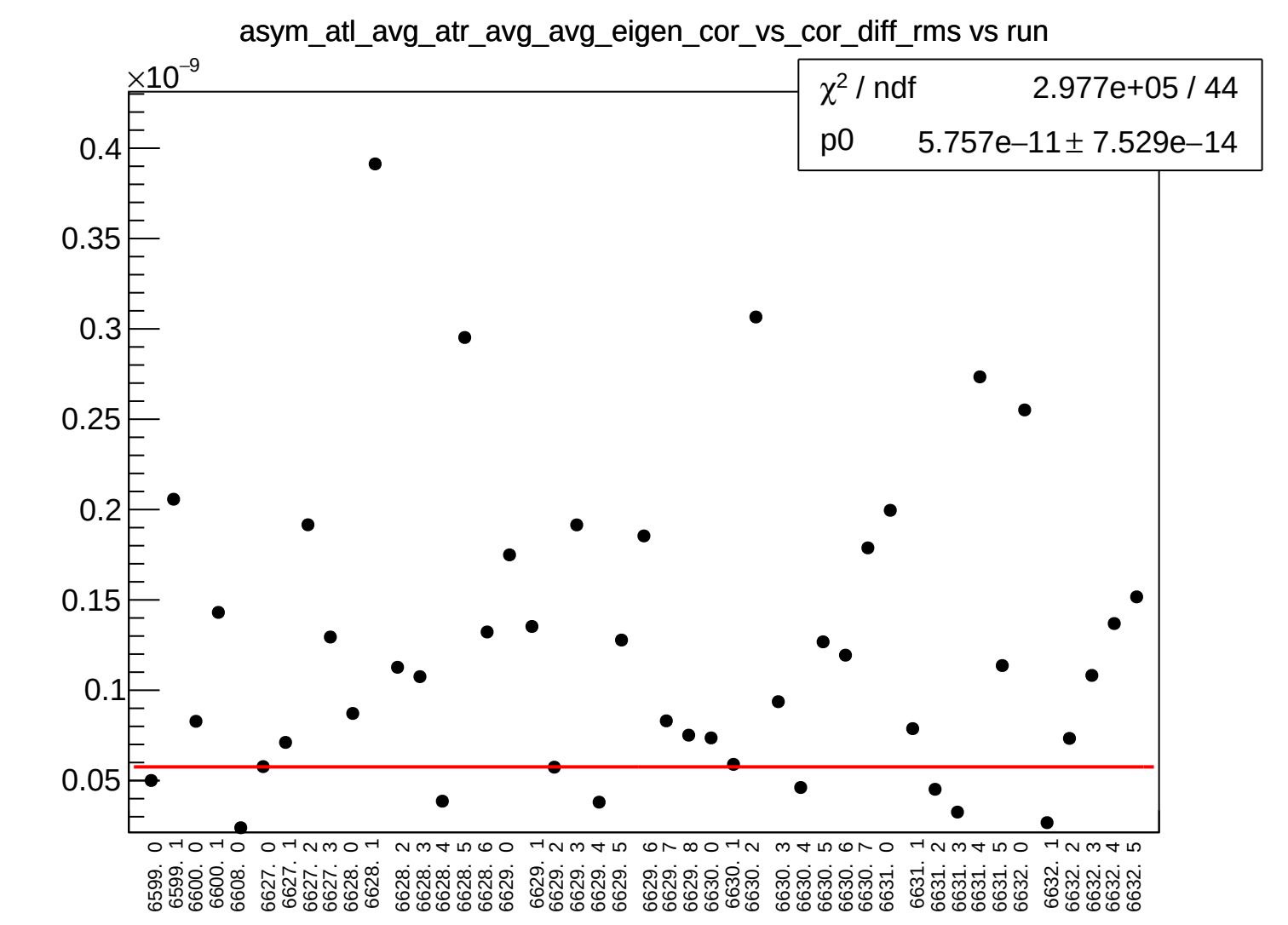

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.76 / 44
p0 1.18 ± 0.696
pull
Entries 45
Mean 52.81
Std Dev 30.22

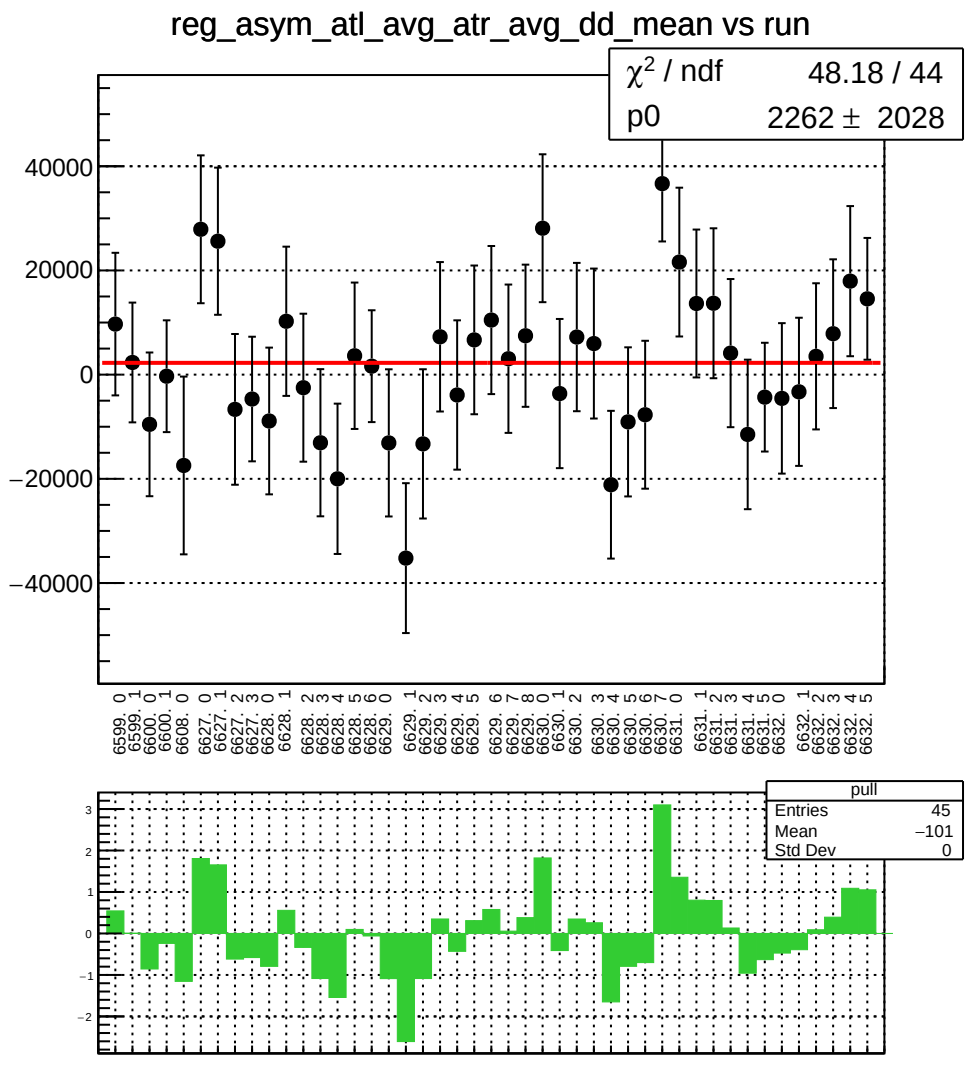

pull1D
Entries 45
Mean 0.02166
Std Dev 1.227

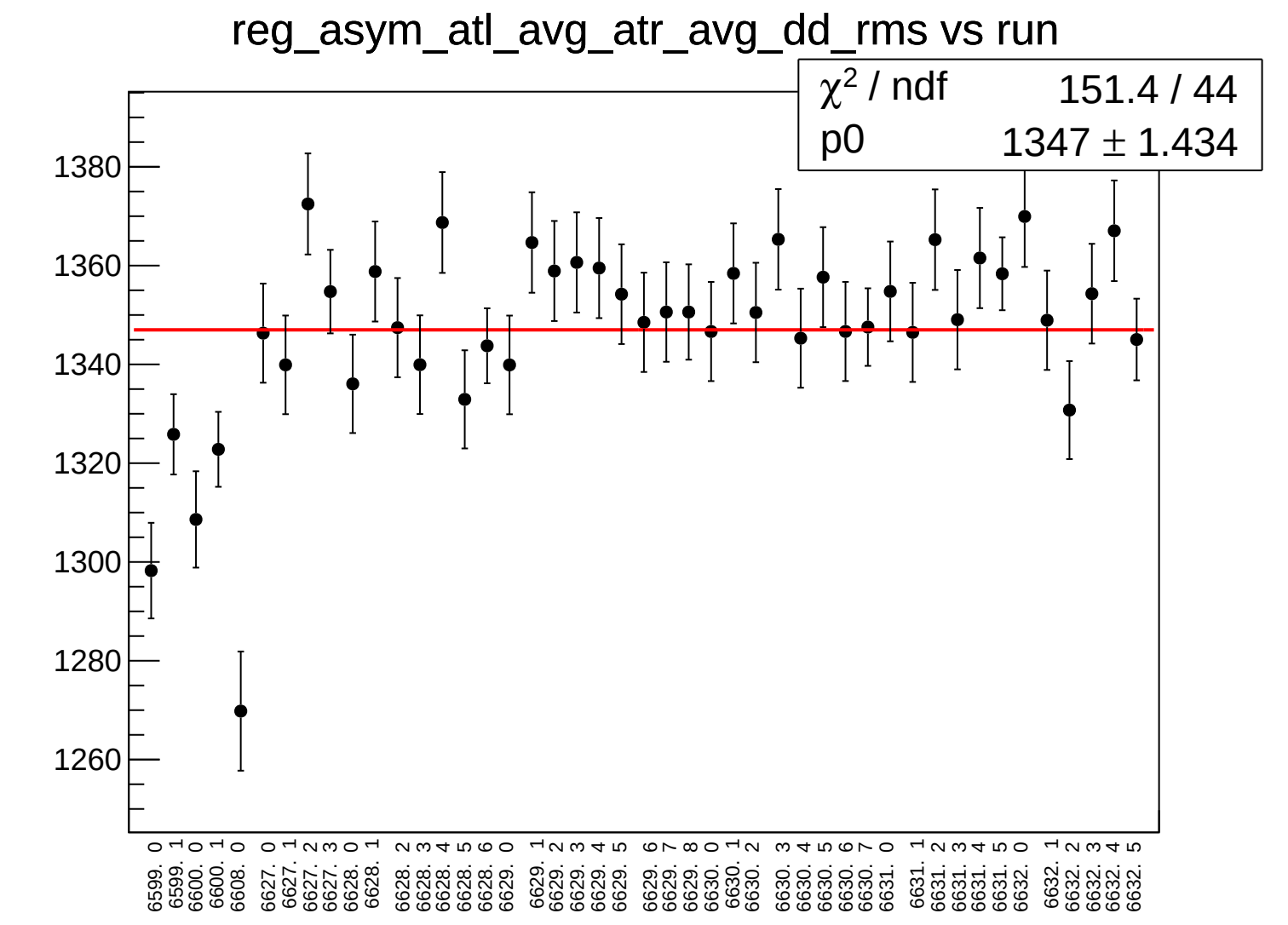

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.348e+04 / 44
p0 458.8 ± 0.4921
1000
900
800
700
600
500
400
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

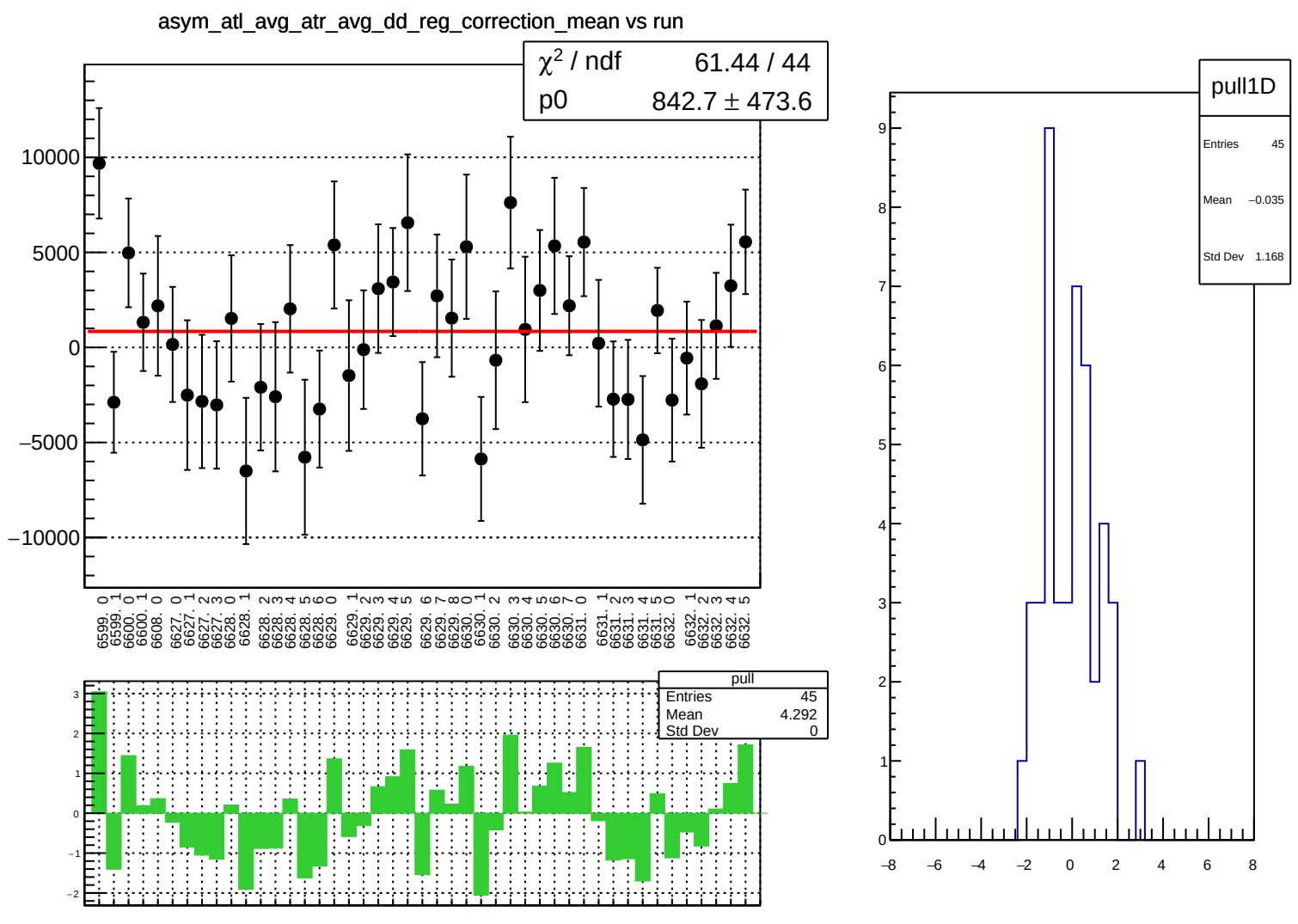

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 53.09 / 44
p0 1.268e−14 ± 1.065e−13
10
8
6
4
2
0
−2
−4
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −7.75
Std Dev 0
2
1
0
−1
−2

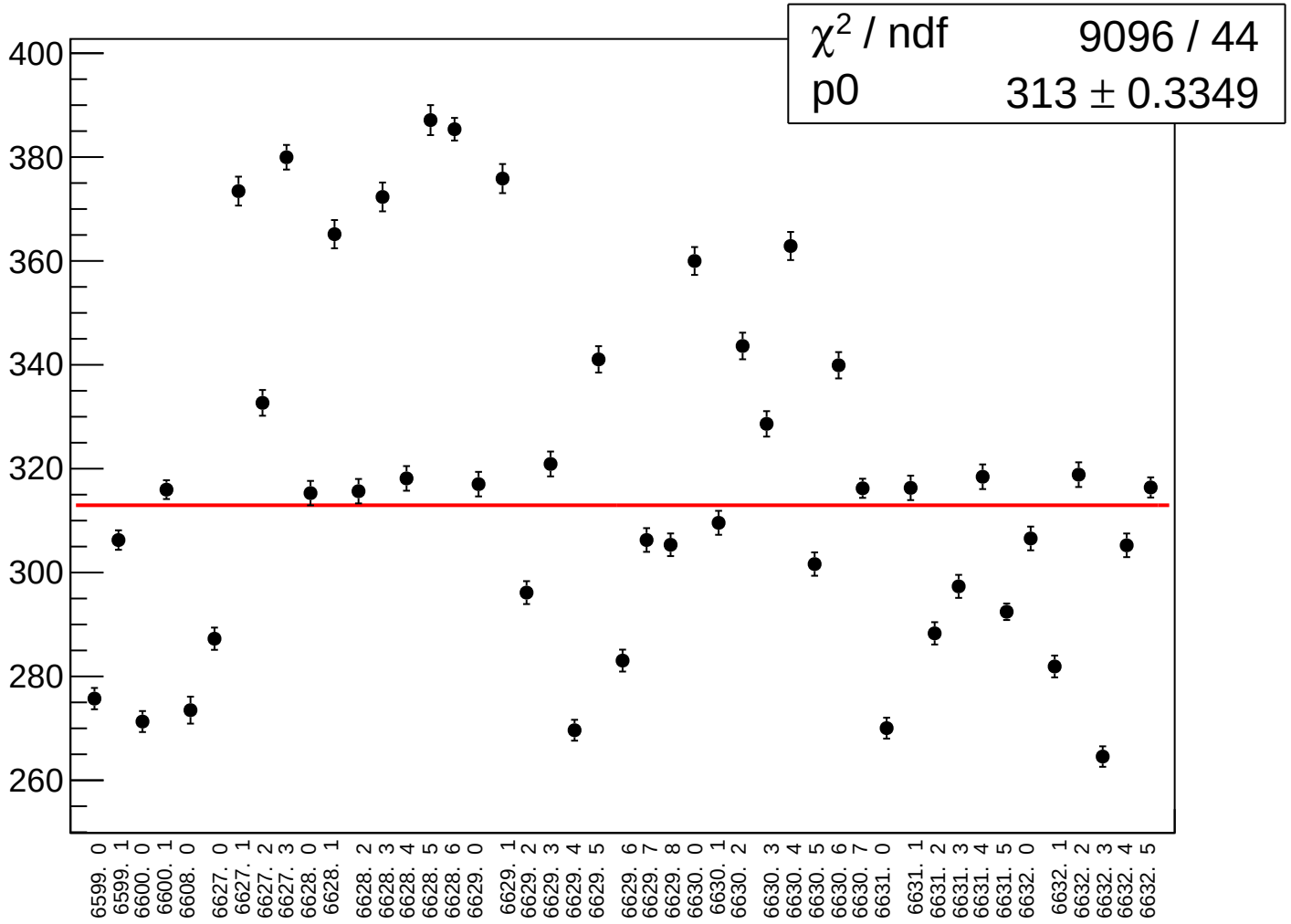

pull1D
Entries 45
Mean 0.06549
Std Dev 1.084
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.977e+05 / 44
p0 5.757e−11 ± 7.529e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 48.18 / 44
p0 2262 ± 2028
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −101
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02035
Std Dev 1.034
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 151.4 / 44
p0 1347 ± 1.434
1380
1360
1340
1320
1300
1280
1260
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 61.44 / 44
p0 842.7 ± 473.6
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 4.292
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.035
Std Dev 1.168
9
8
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 9096 / 44
p0 313 ± 0.3349
400
380
360
340
320
300
280
260
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6630. 5
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6630. 7
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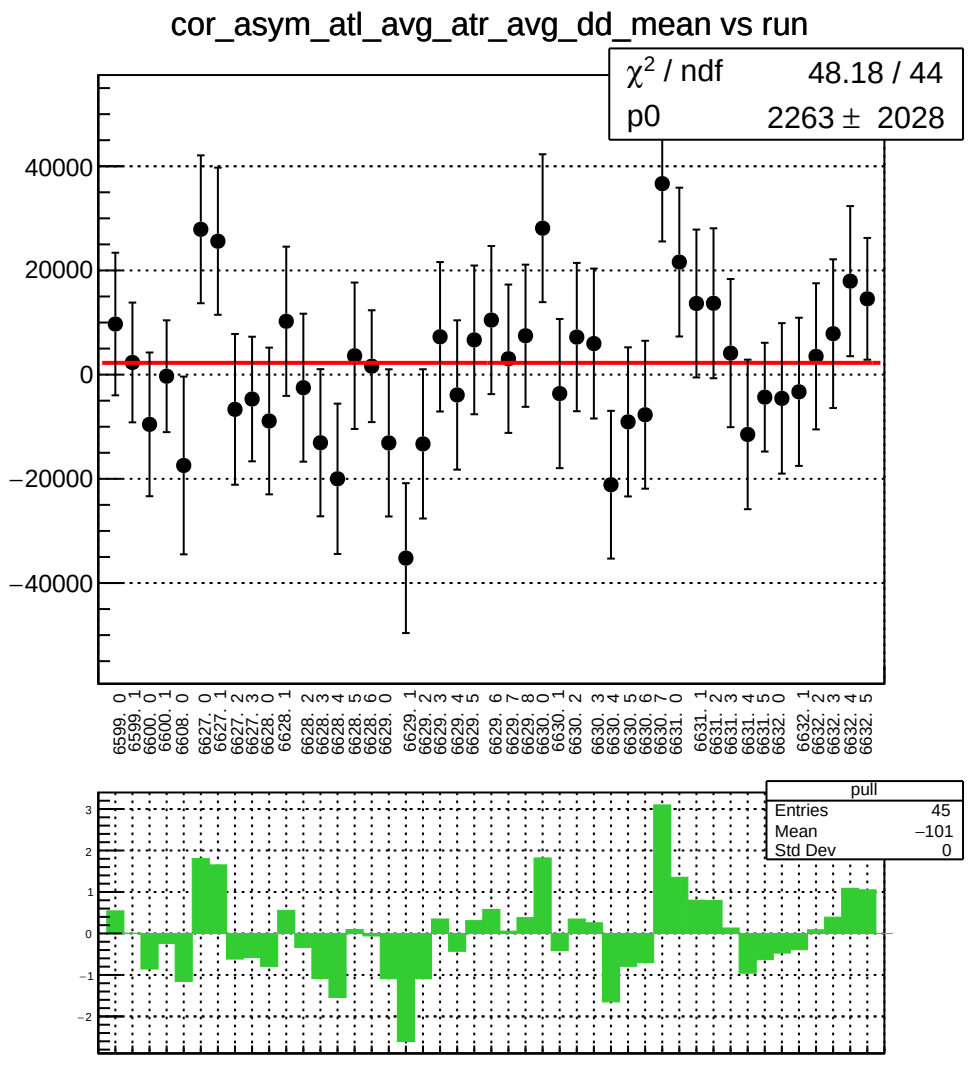
cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 48.18 / 44
p0 2263 ± 2028
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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6632. 4
6632. 5
pull
Entries 45
Mean −101
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02035
Std Dev 1.034
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−6
−4
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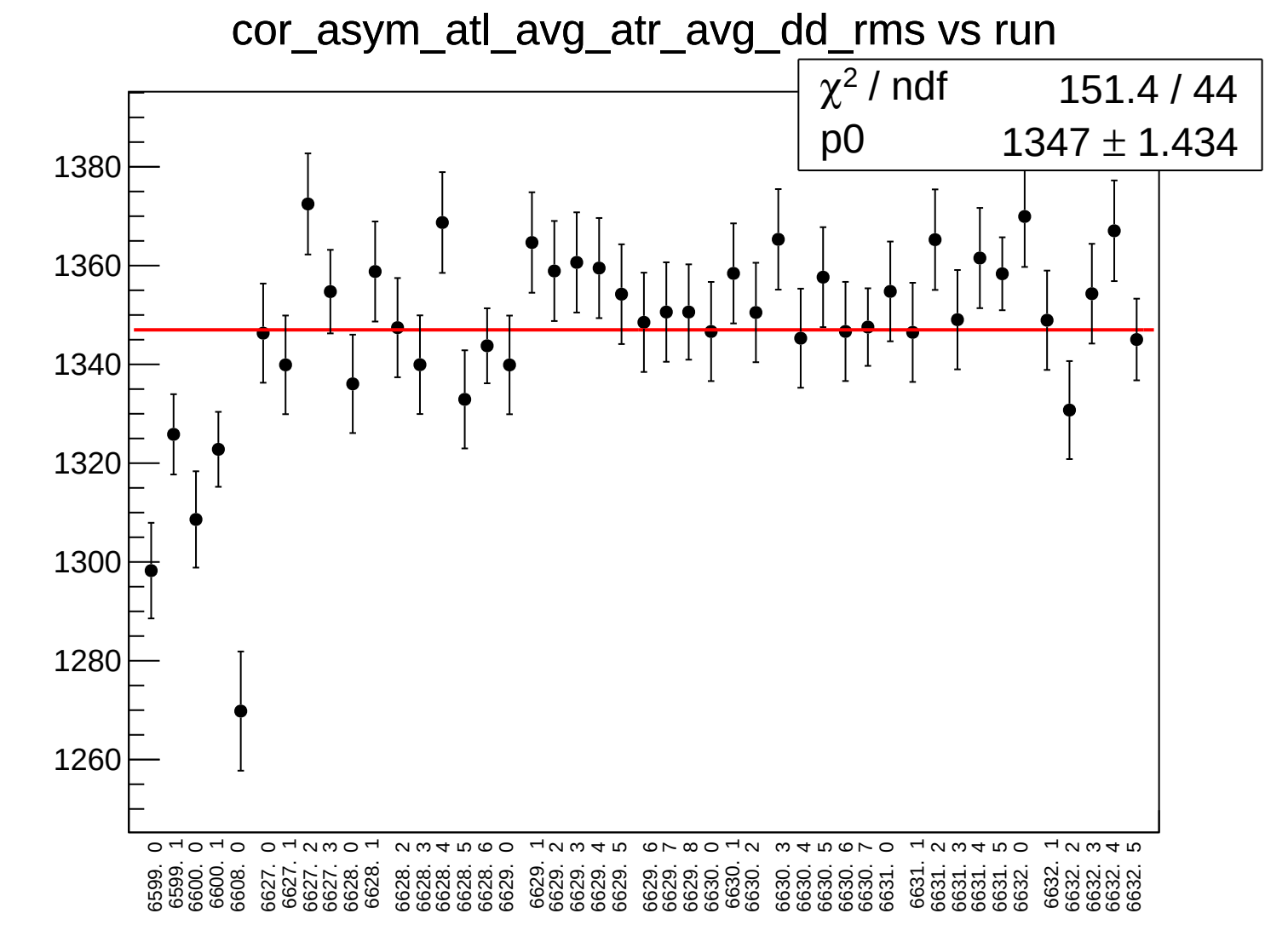
cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 151.4 / 44
p0 1347 ± 1.434
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1320
1300
1280
1260
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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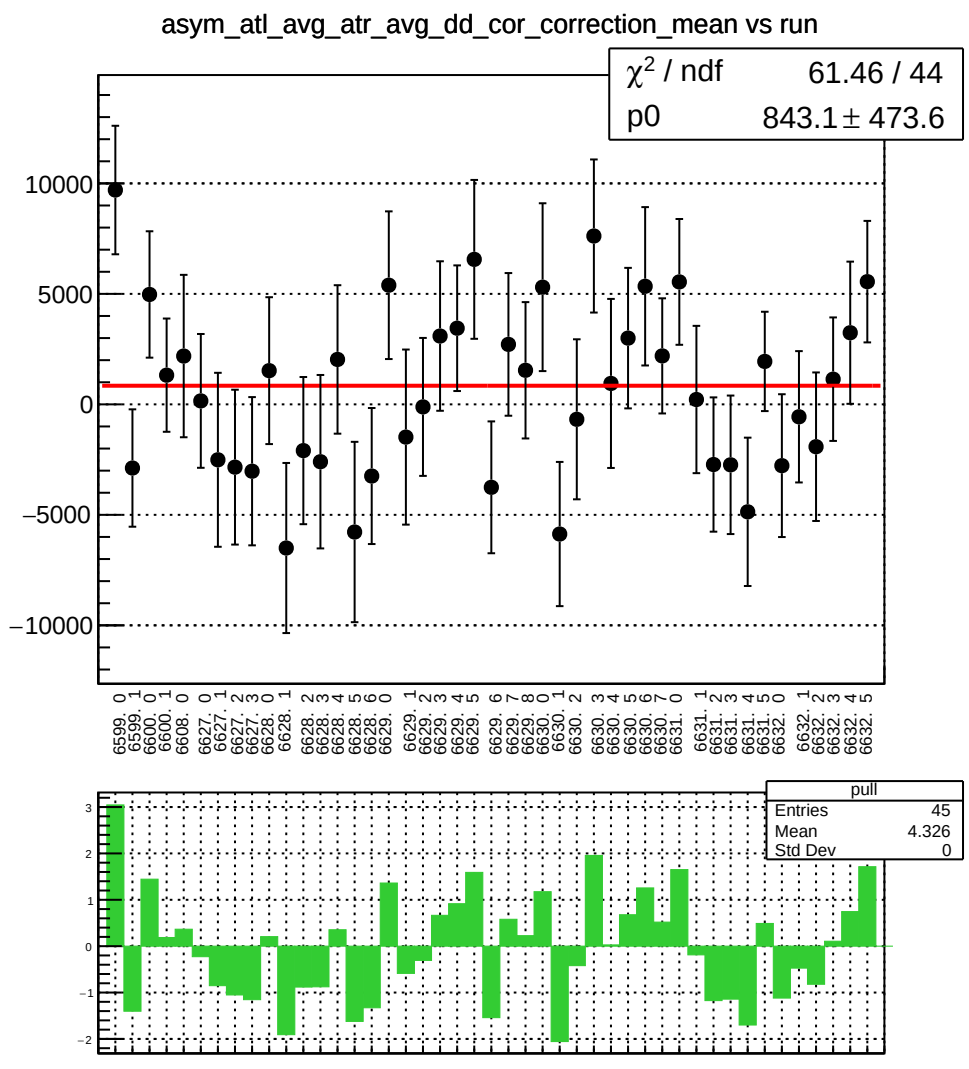
asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 61.46 / 44
p0 843.1 ± 473.6
10000
5000
0
−5000
−10000
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6600. 0
6600. 1
6608. 0
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6632. 0
6632. 1
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6632. 4
6632. 5
pull
Entries 45
Mean 4.326
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.03495
Std Dev 1.168
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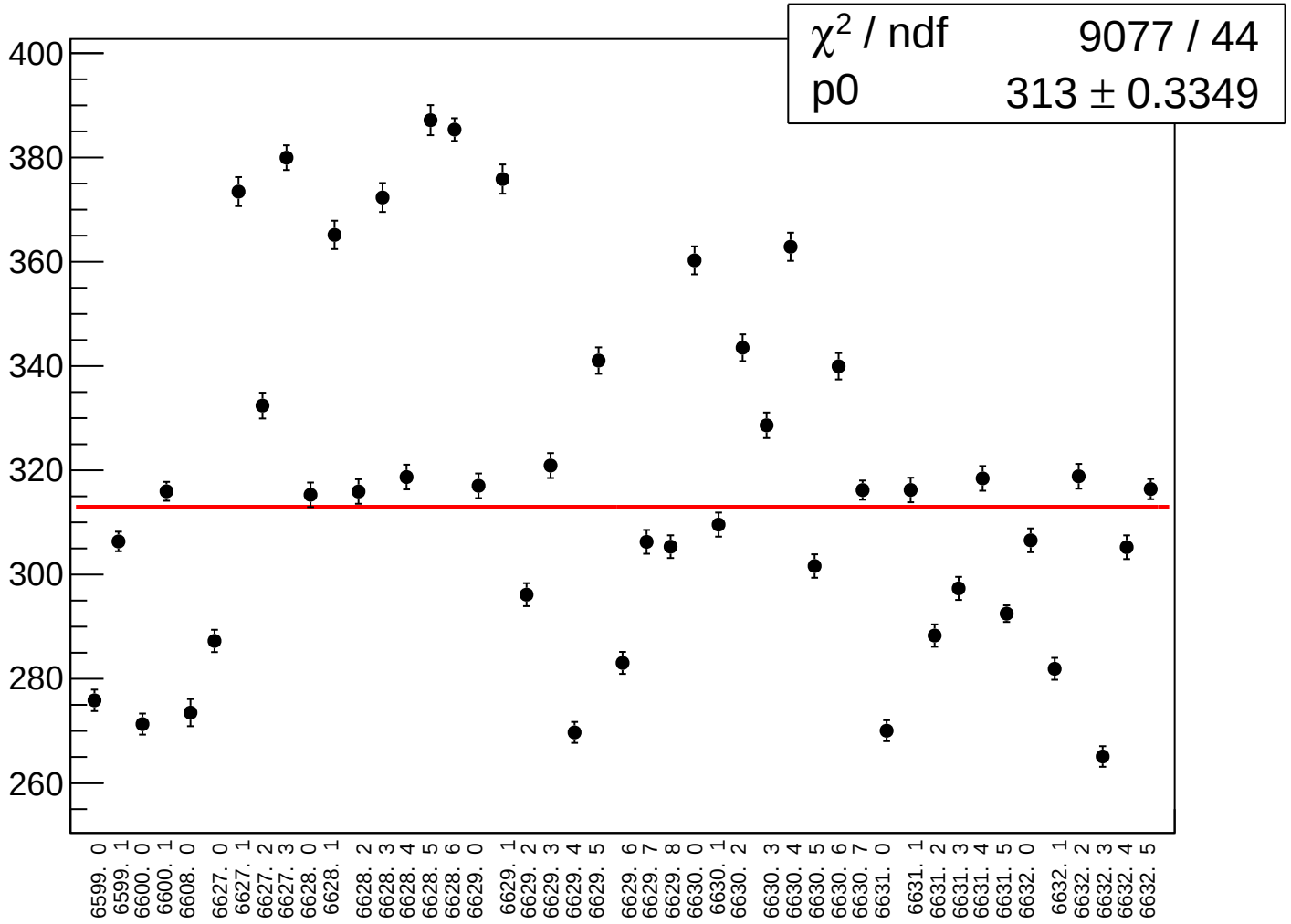
asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 9077 / 44
p0 313 ± 0.3349
400
380
360
340
320
300
280
260
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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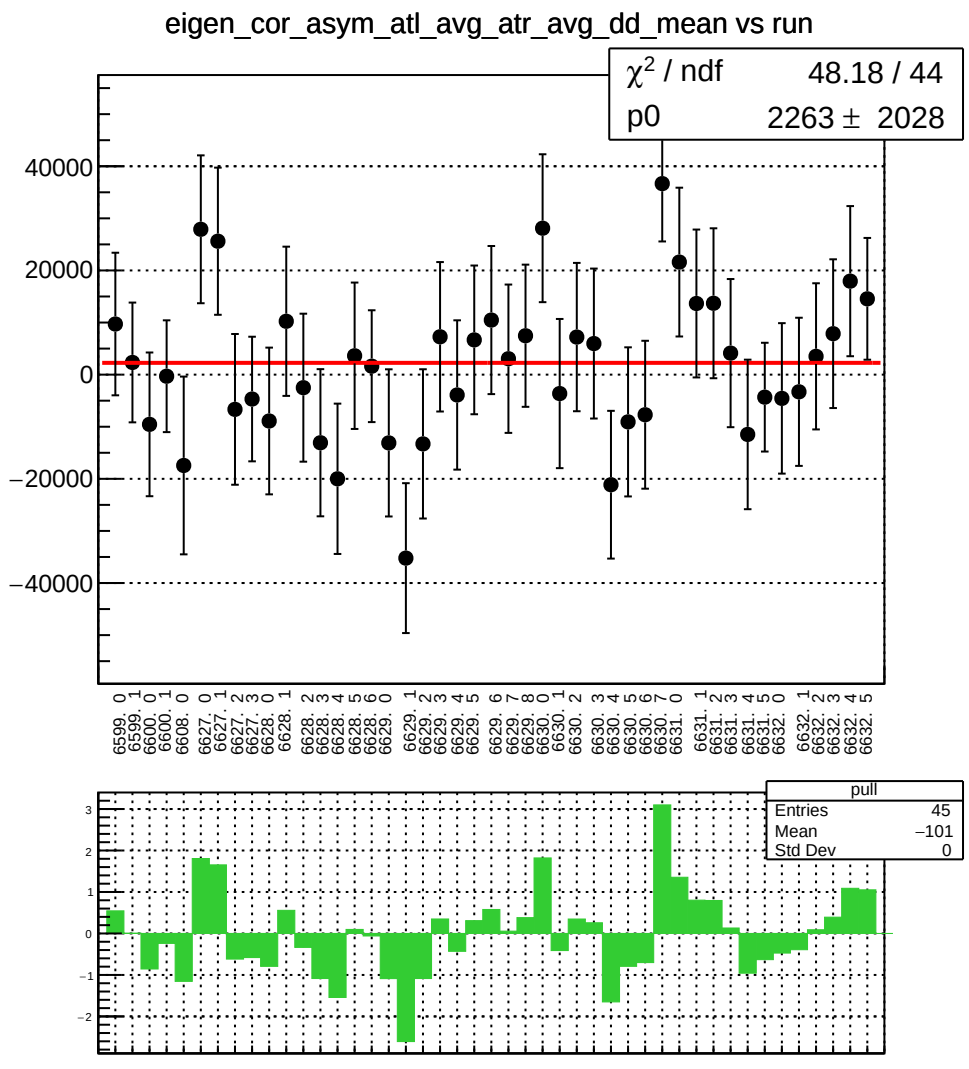
eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 48.18 / 44
p0 2263 ± 2028
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−20000
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6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6631. 5
6632. 0
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6632. 5
pull
Entries 45
Mean −101
Std Dev 0
3
2
1
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−1
−2
pull1D
Entries 45
Mean −0.02035
Std Dev 1.034
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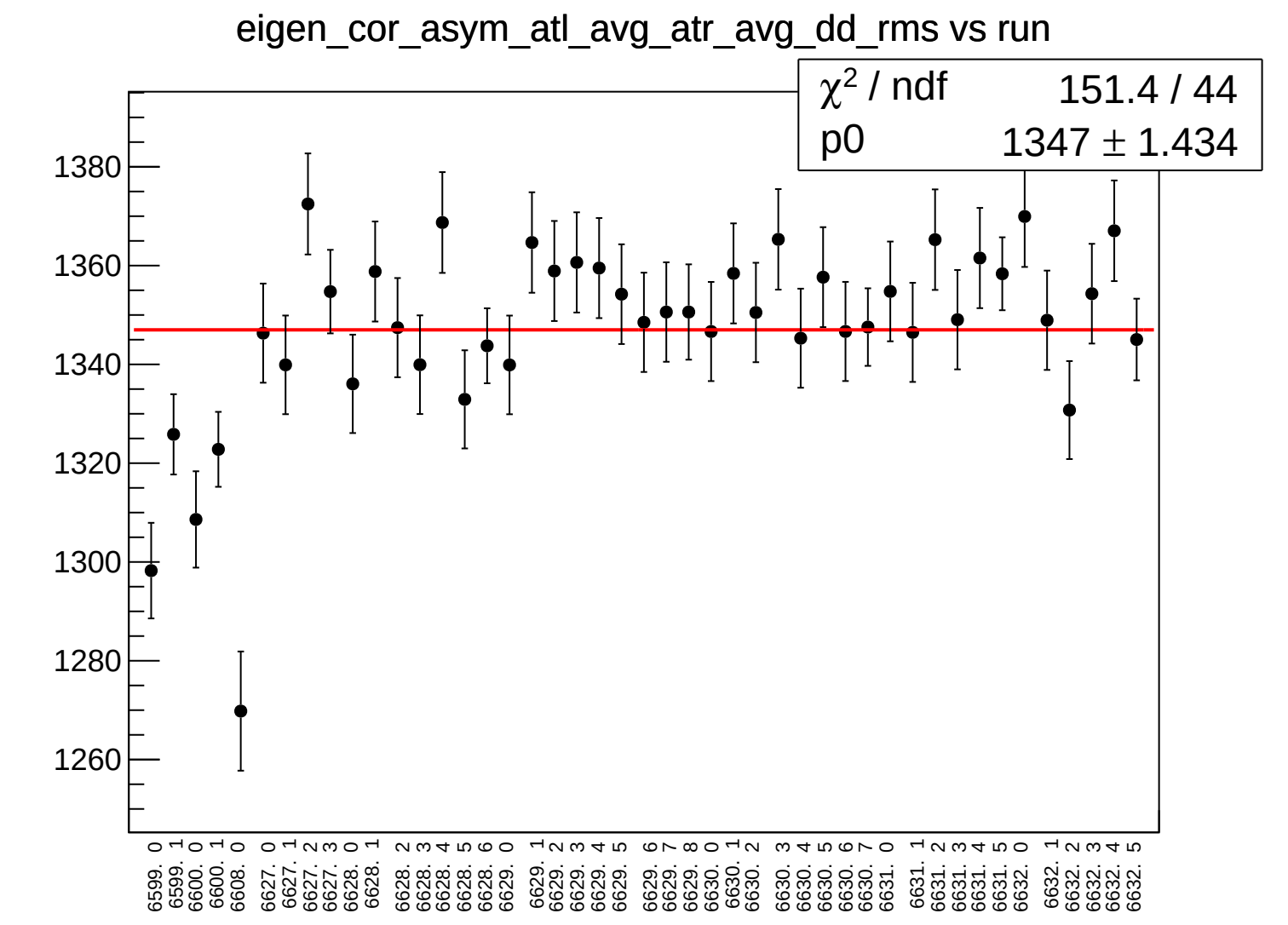
eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 151.4 / 44
p0 1347 ± 1.434
1380
1360
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6599. 0
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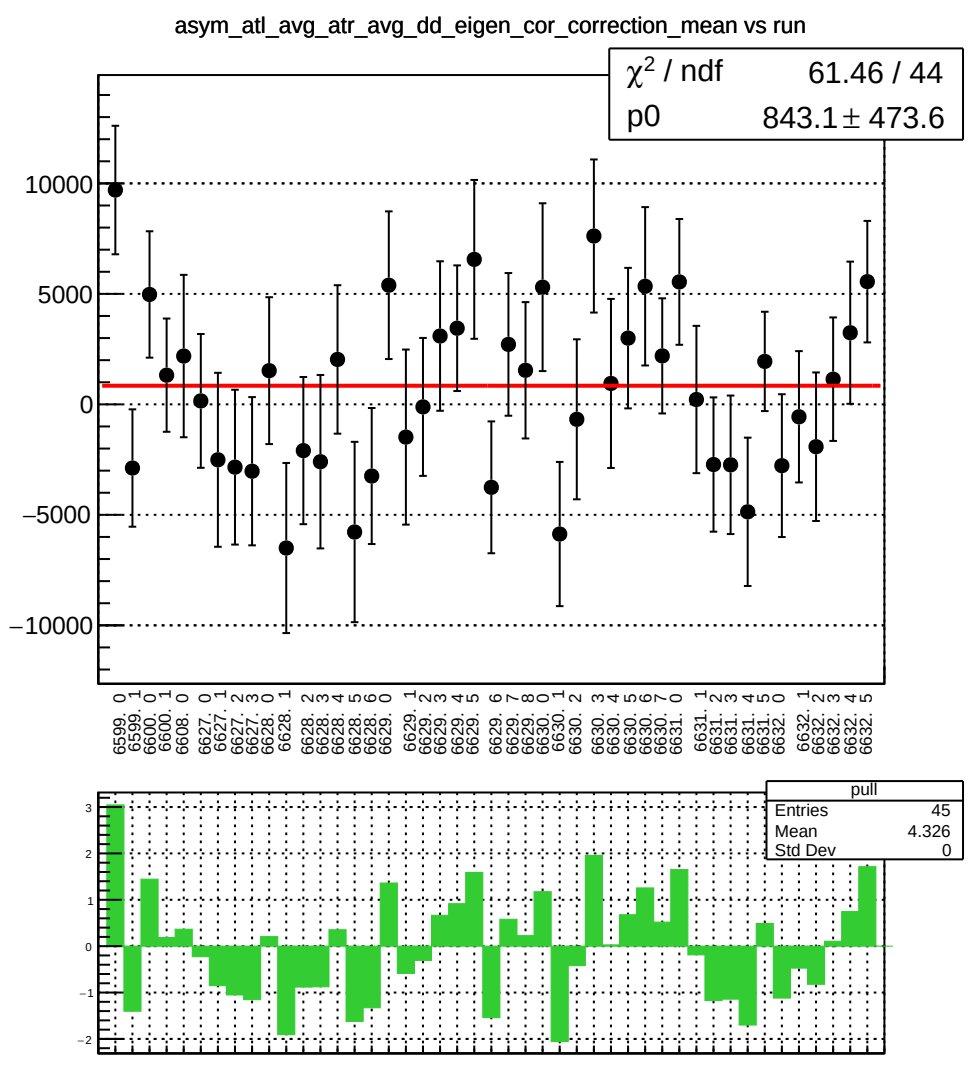
asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 61.46 / 44
p0 843.1 ± 473.6
10000
5000
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−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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pull
Entries 45
Mean 4.326
Std Dev 0
3
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1
0
−1
−2
pull1D
Entries 45
Mean −0.03495
Std Dev 1.168
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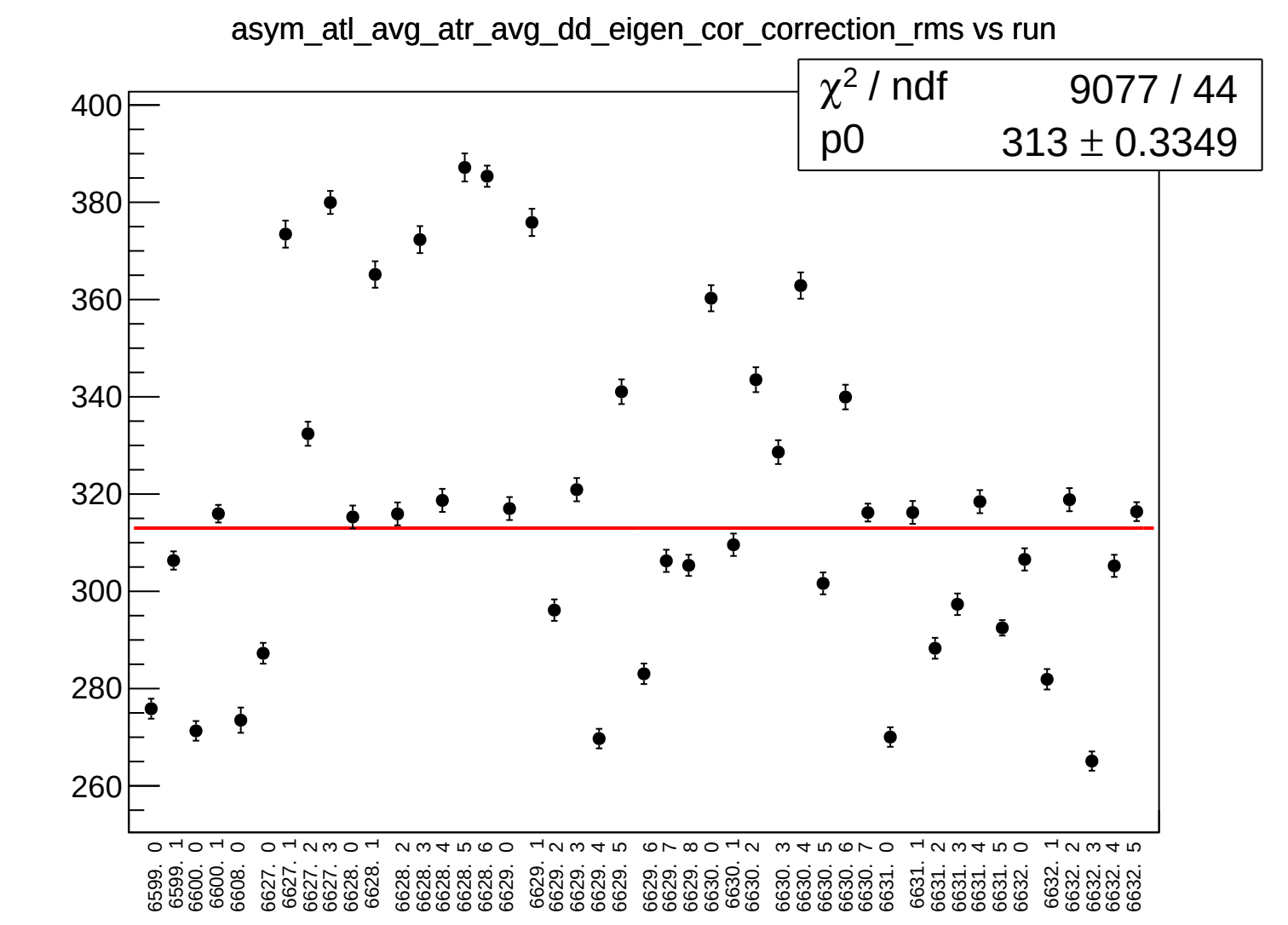
asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 9077 / 44
p0 313 ± 0.3349
400
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360
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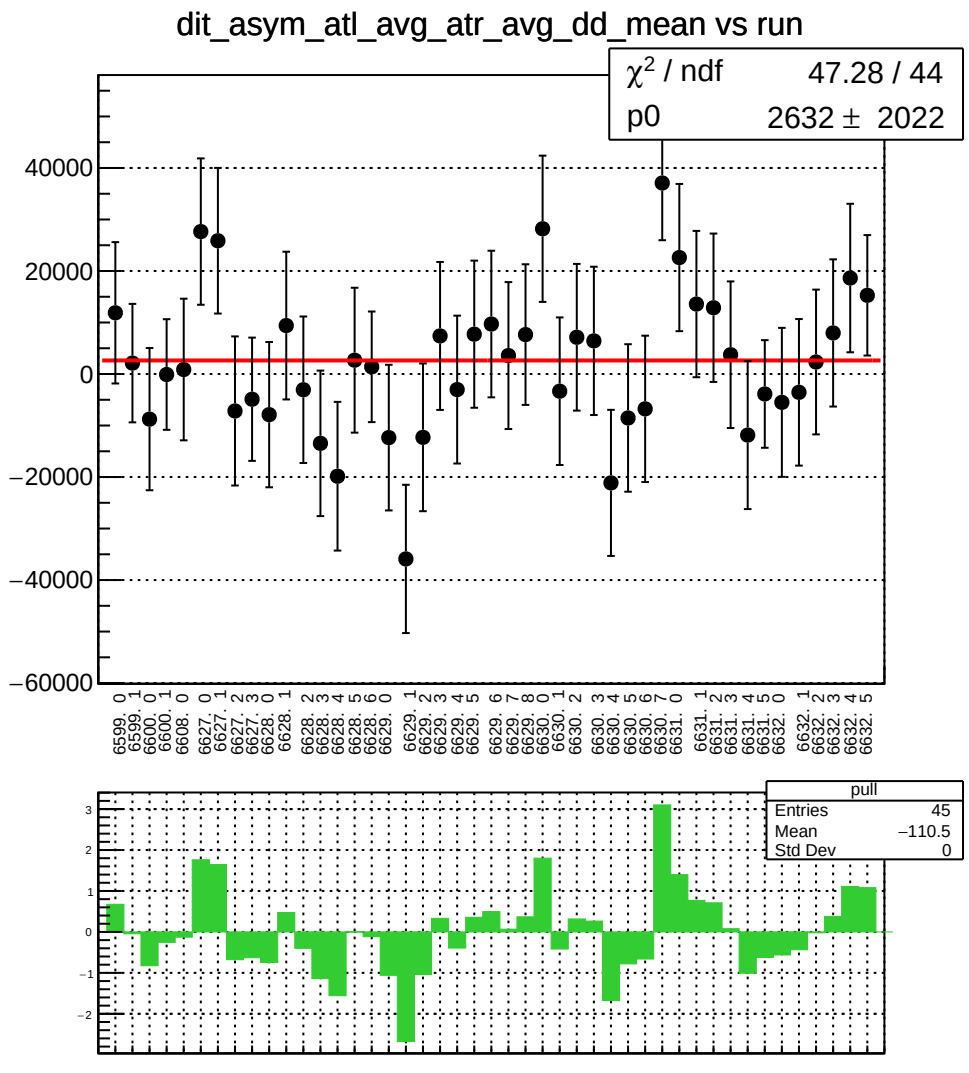
dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 47.28 / 44
p0 2632 ± 2022
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
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6632. 4
6632. 5
pull
Entries 45
Mean −110.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01535
Std Dev 1.025
9
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6
5
4
3
2
1
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−6
−4
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0
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6
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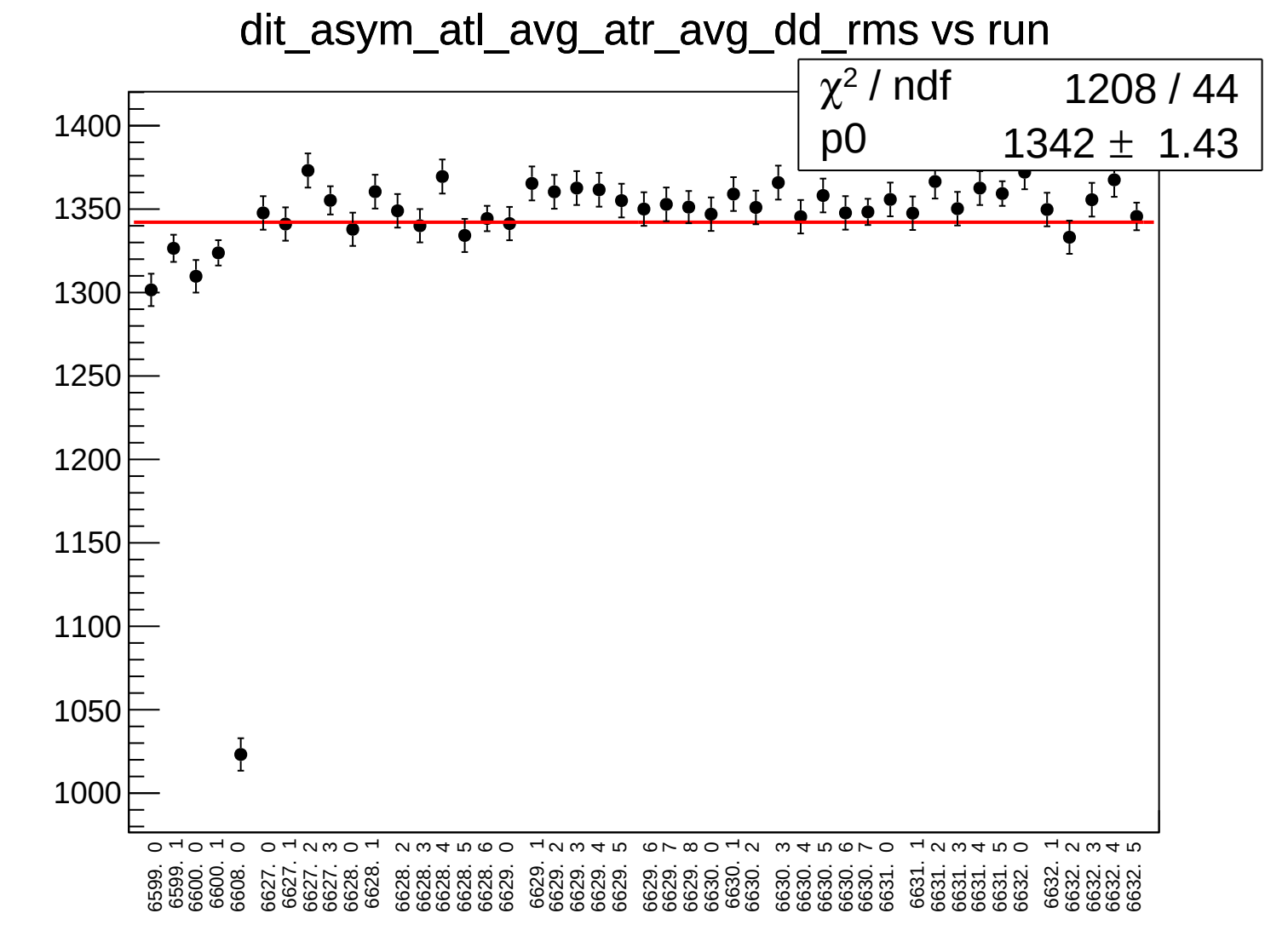
dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1208 / 44
p0 1342 ± 1.43
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1350
1300
1250
1200
1150
1100
1050
1000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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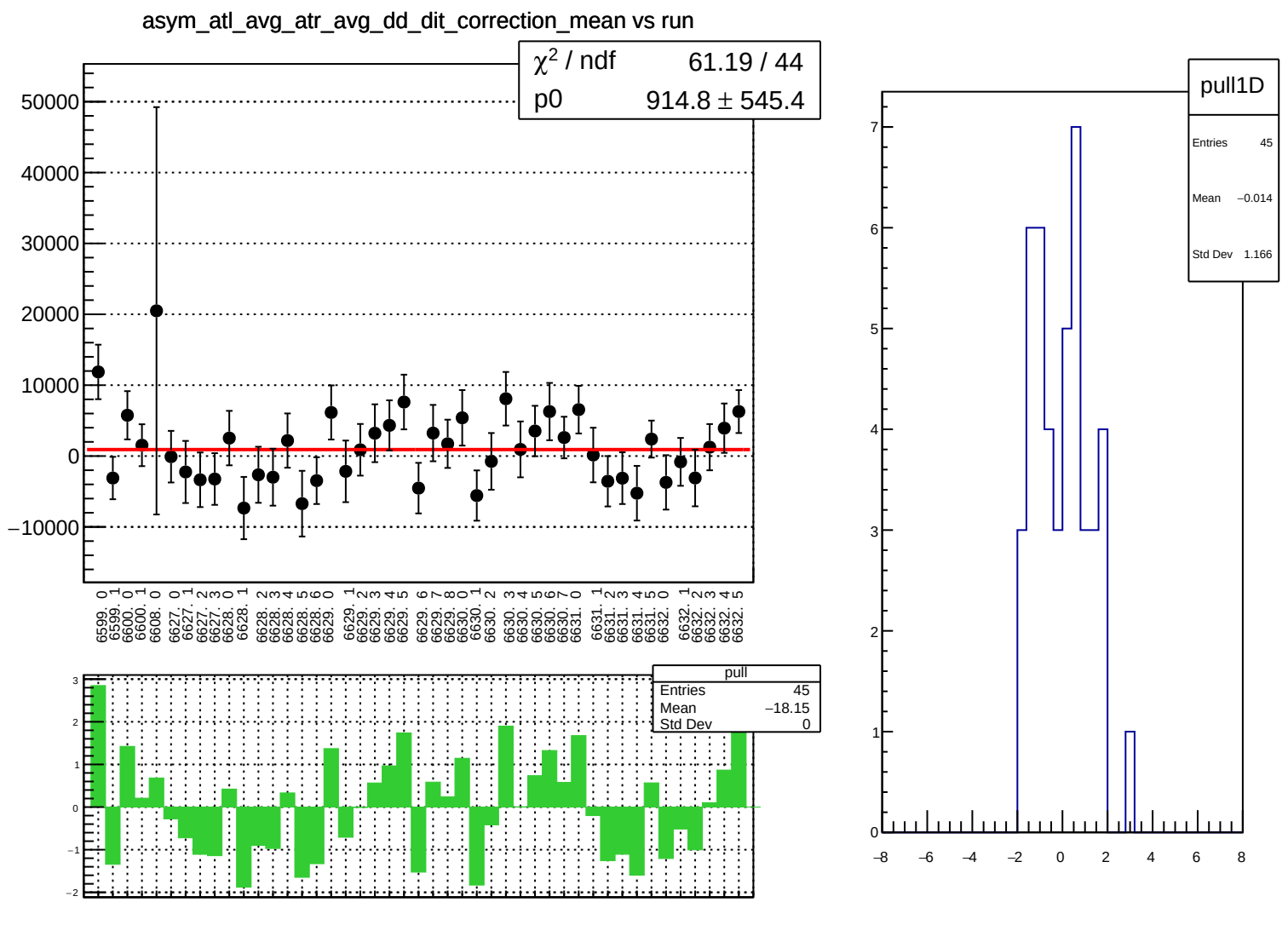
asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 61.19 / 44
p0 914.8 ± 545.4
50000
40000
30000
20000
10000
0
−10000
6599. 0
6599. 1
6600. 0
6600. 1
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −18.15
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.014
Std Dev 1.166
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−6
−4
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6
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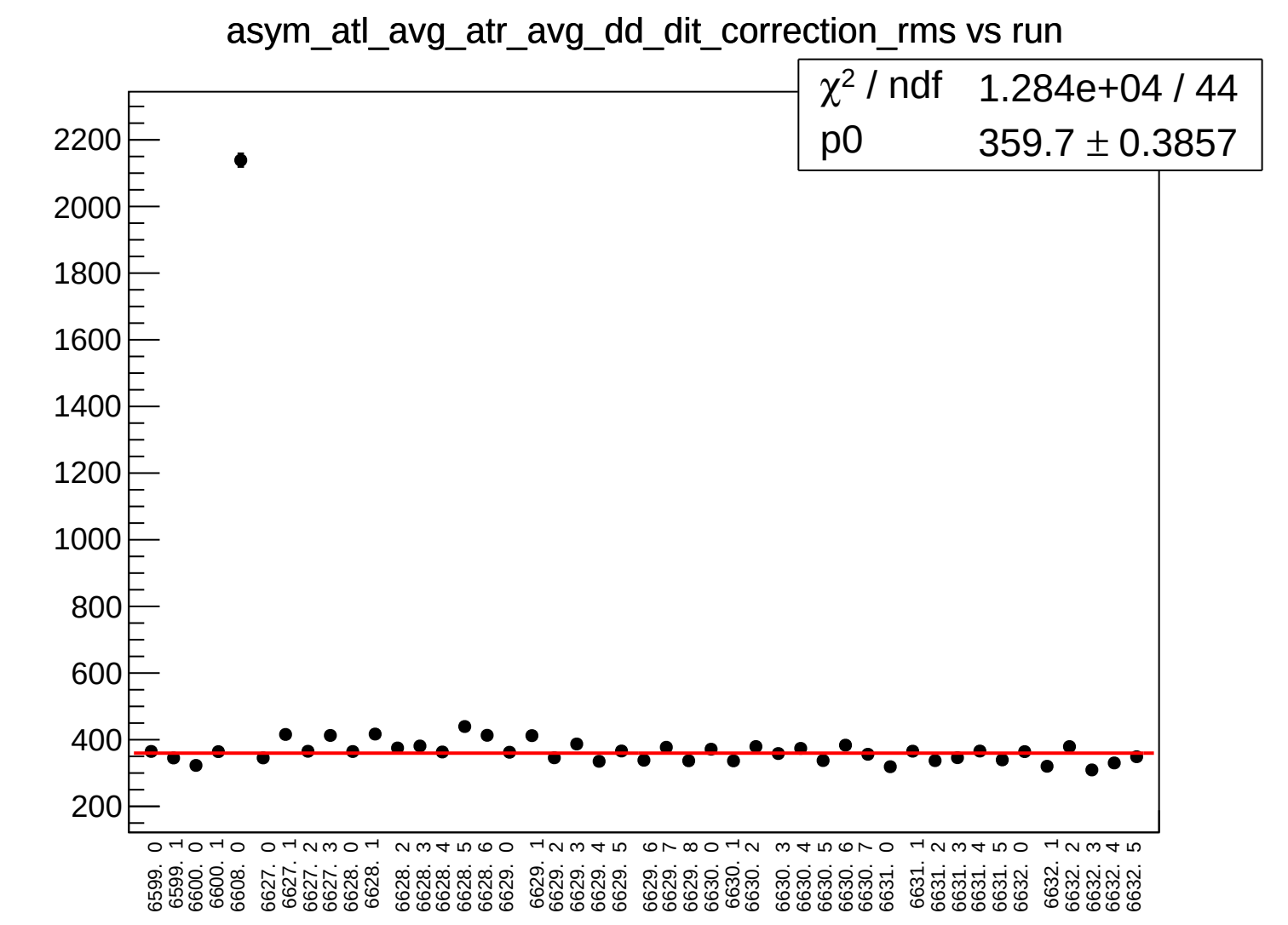
asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.284e+04 / 44
p0 359.7 ± 0.3857
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2000
1800
1600
1400
1200
1000
800
600
400
200
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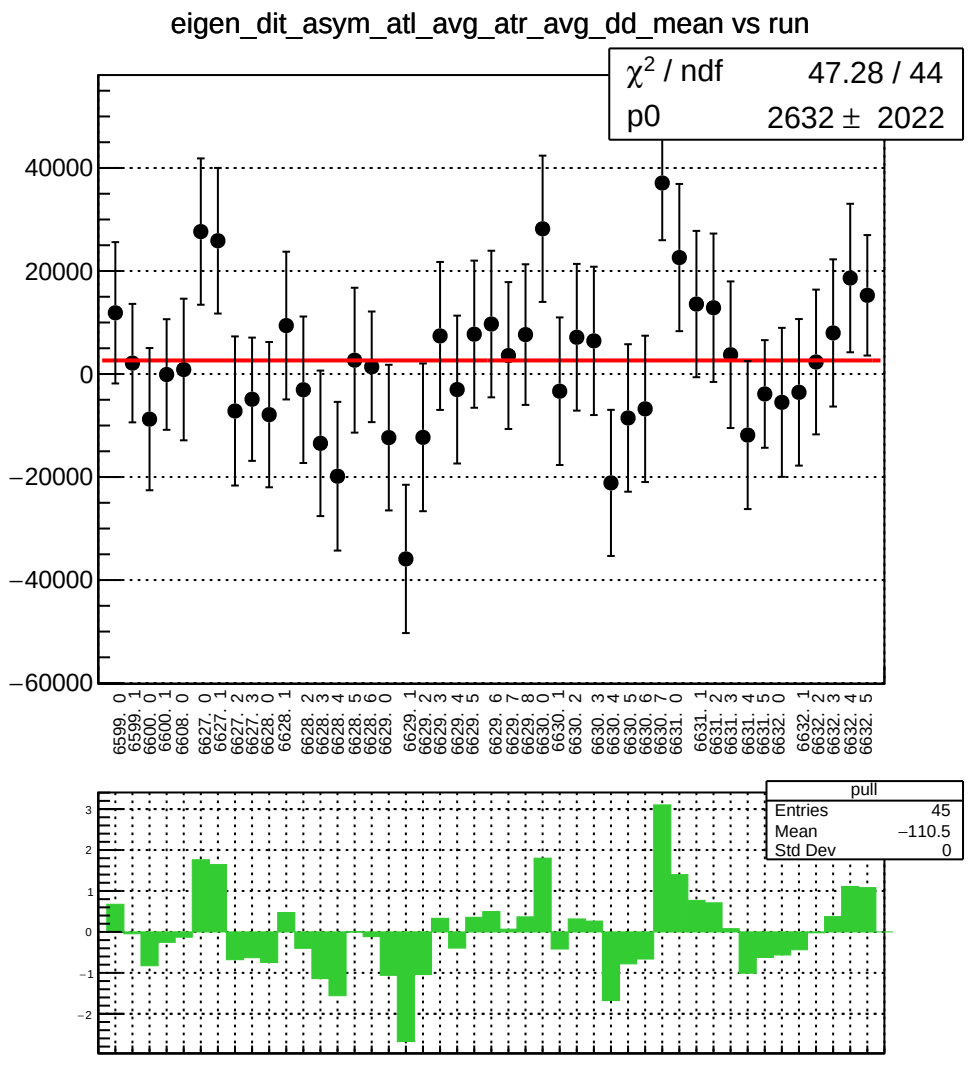
eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 47.28 / 44
p0 2632 ± 2022
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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6628. 5
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6629. 0
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6632. 5
pull
Entries 45
Mean −110.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01535
Std Dev 1.025
9
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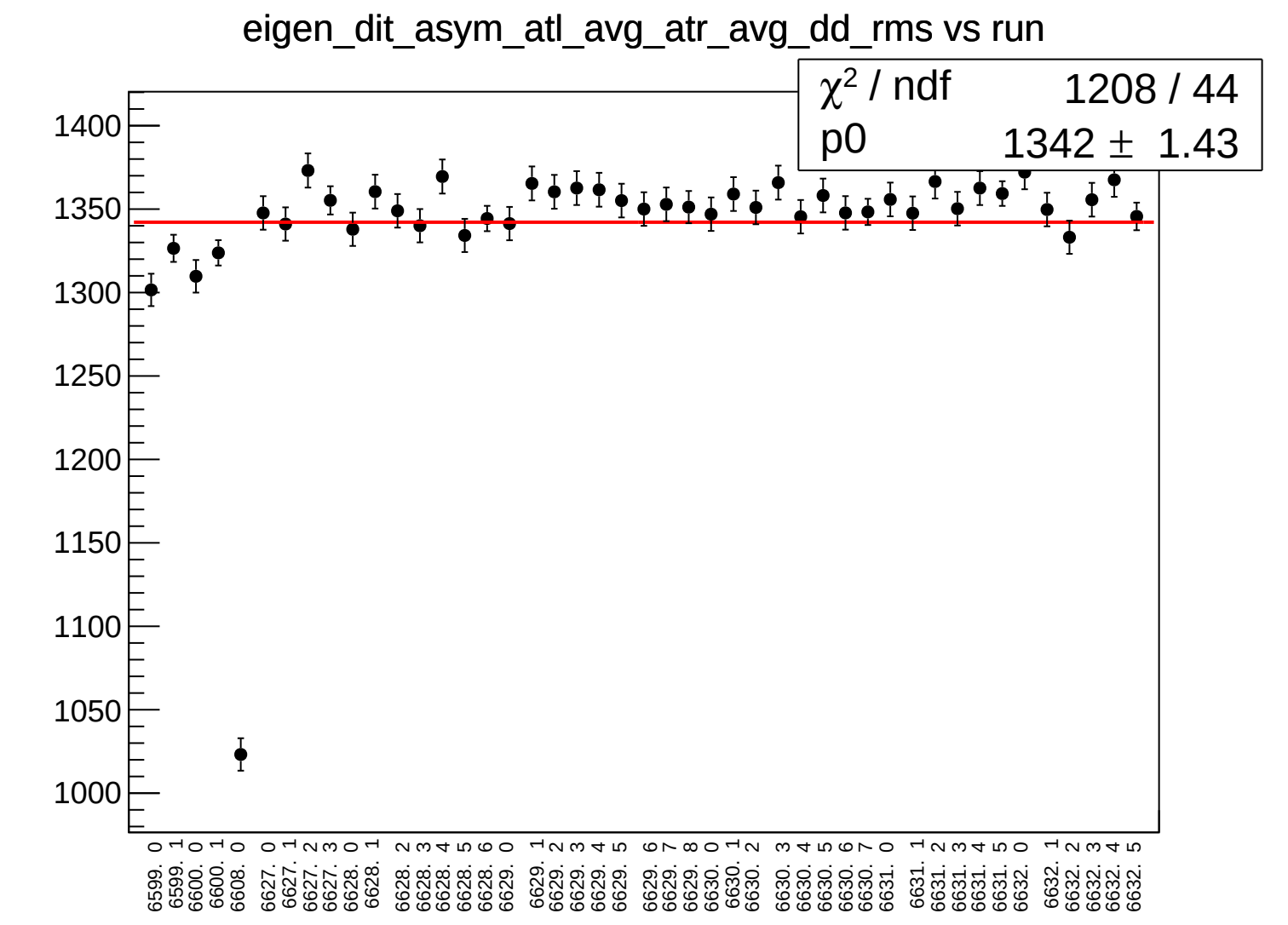
eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1208 / 44
p0 1342 ± 1.43
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1300
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1200
1150
1100
1050
1000
6599. 0
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6600. 0
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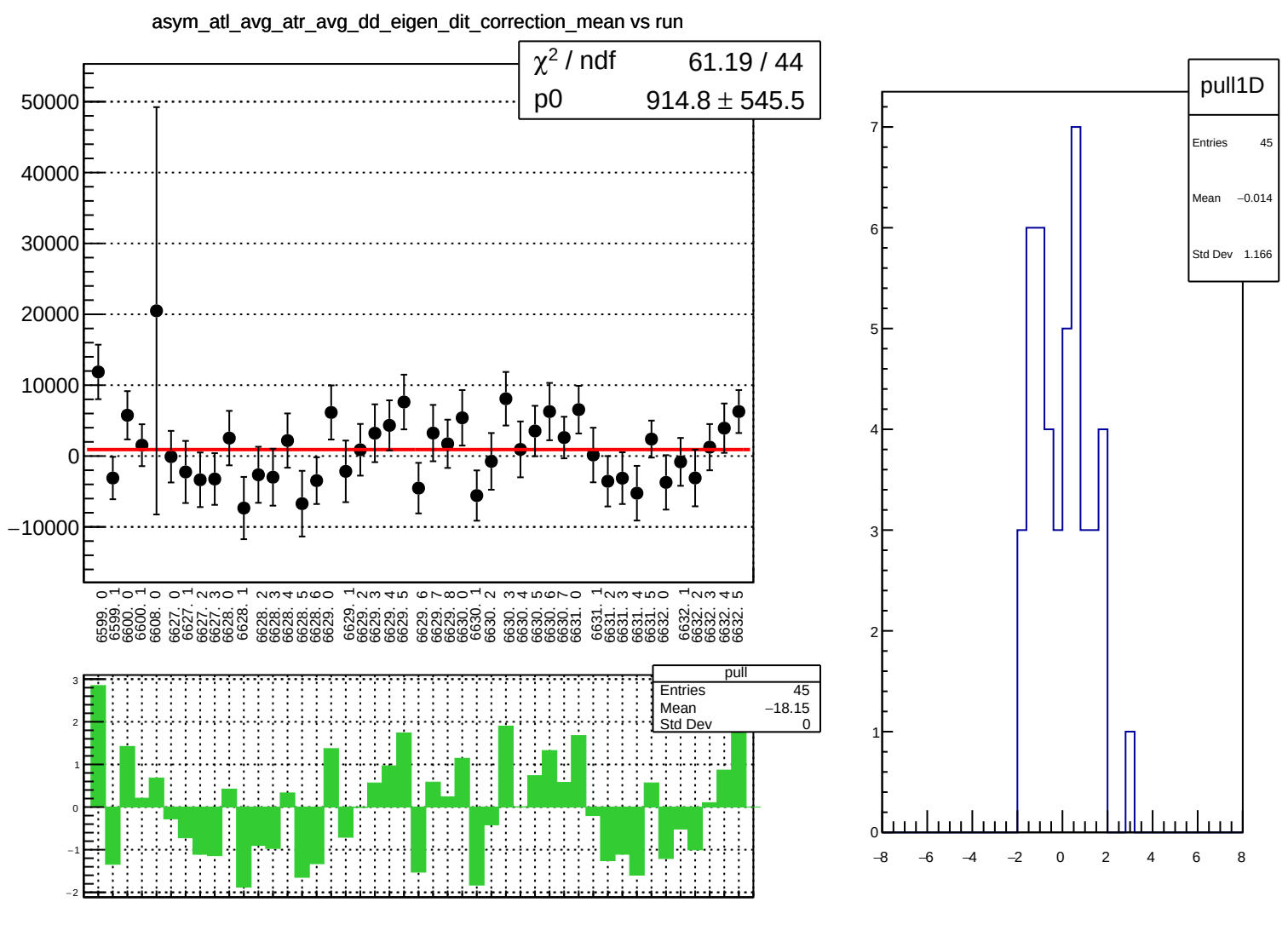
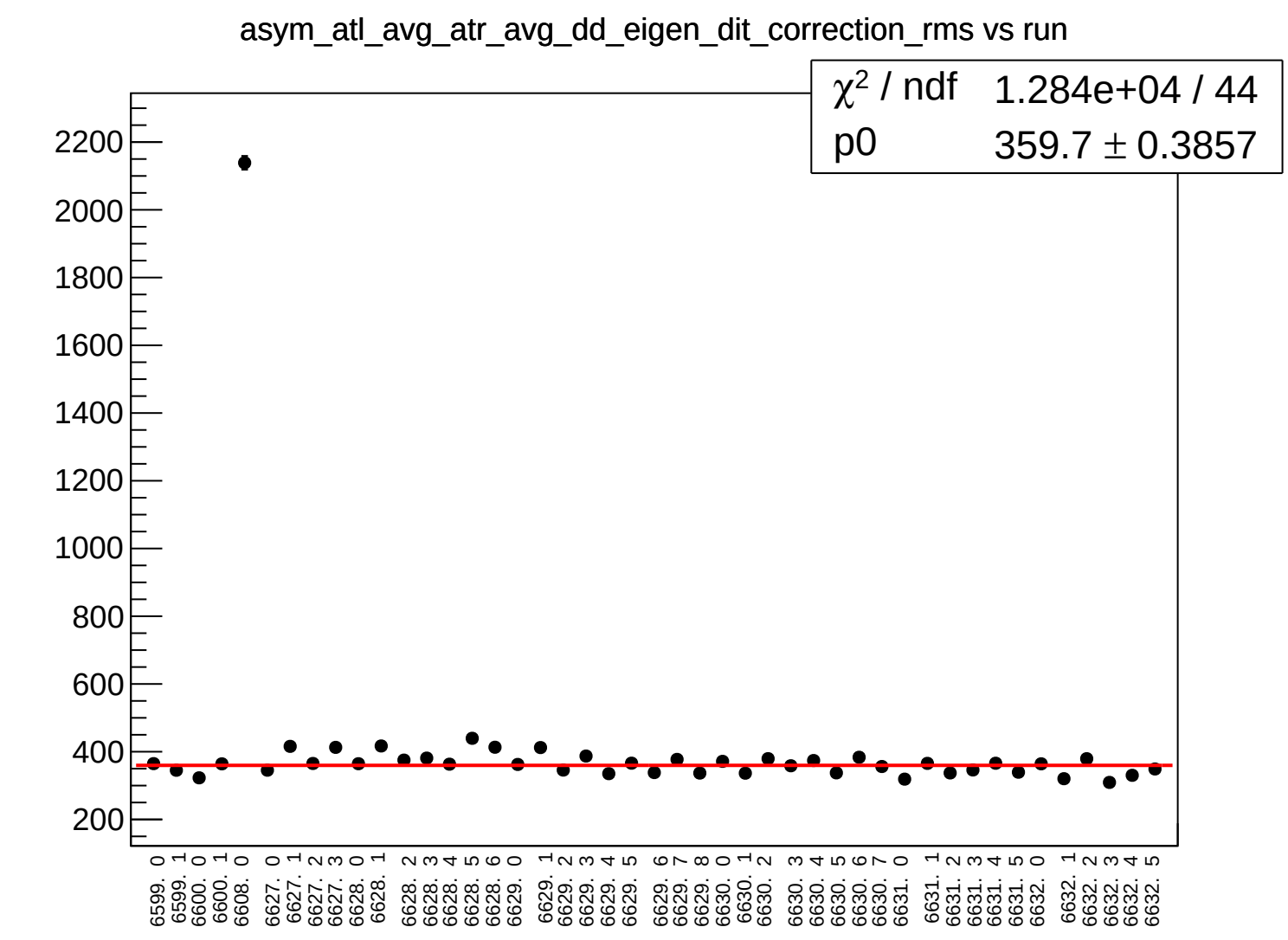
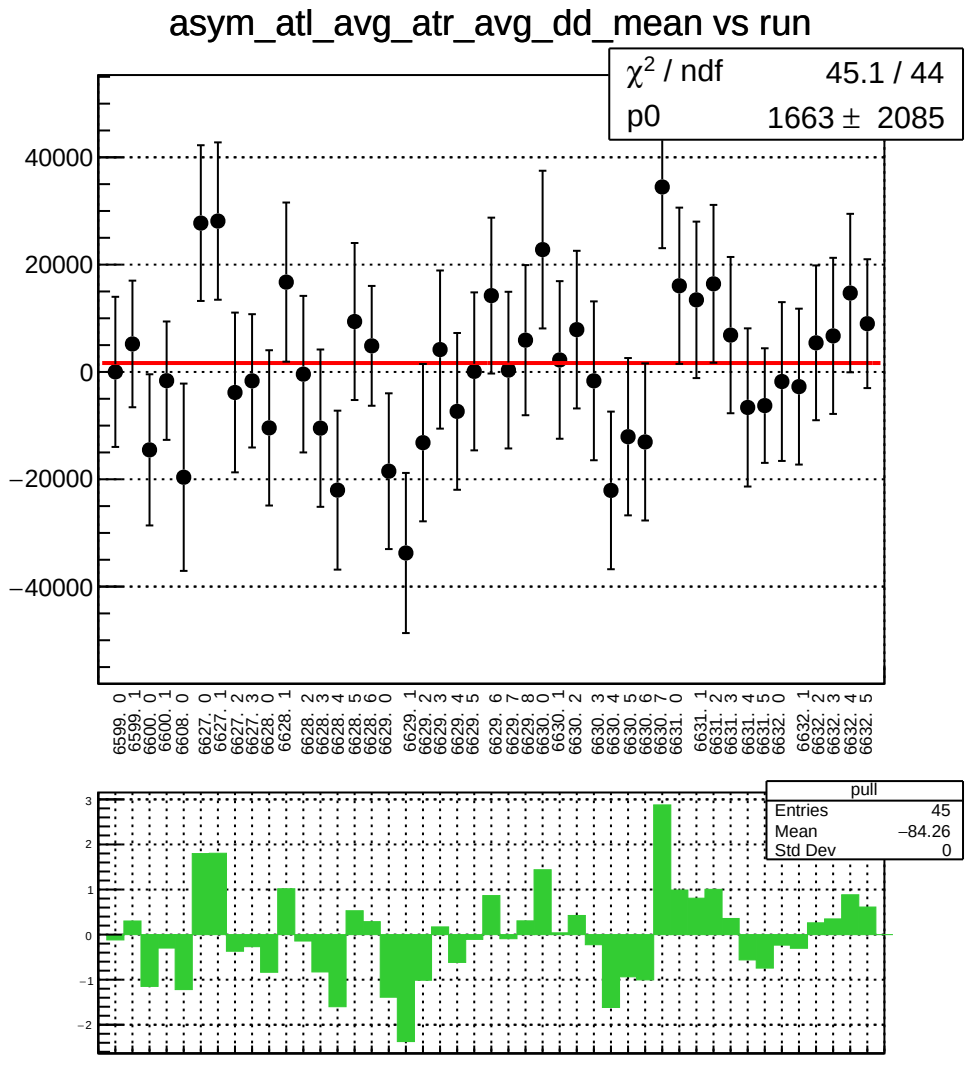
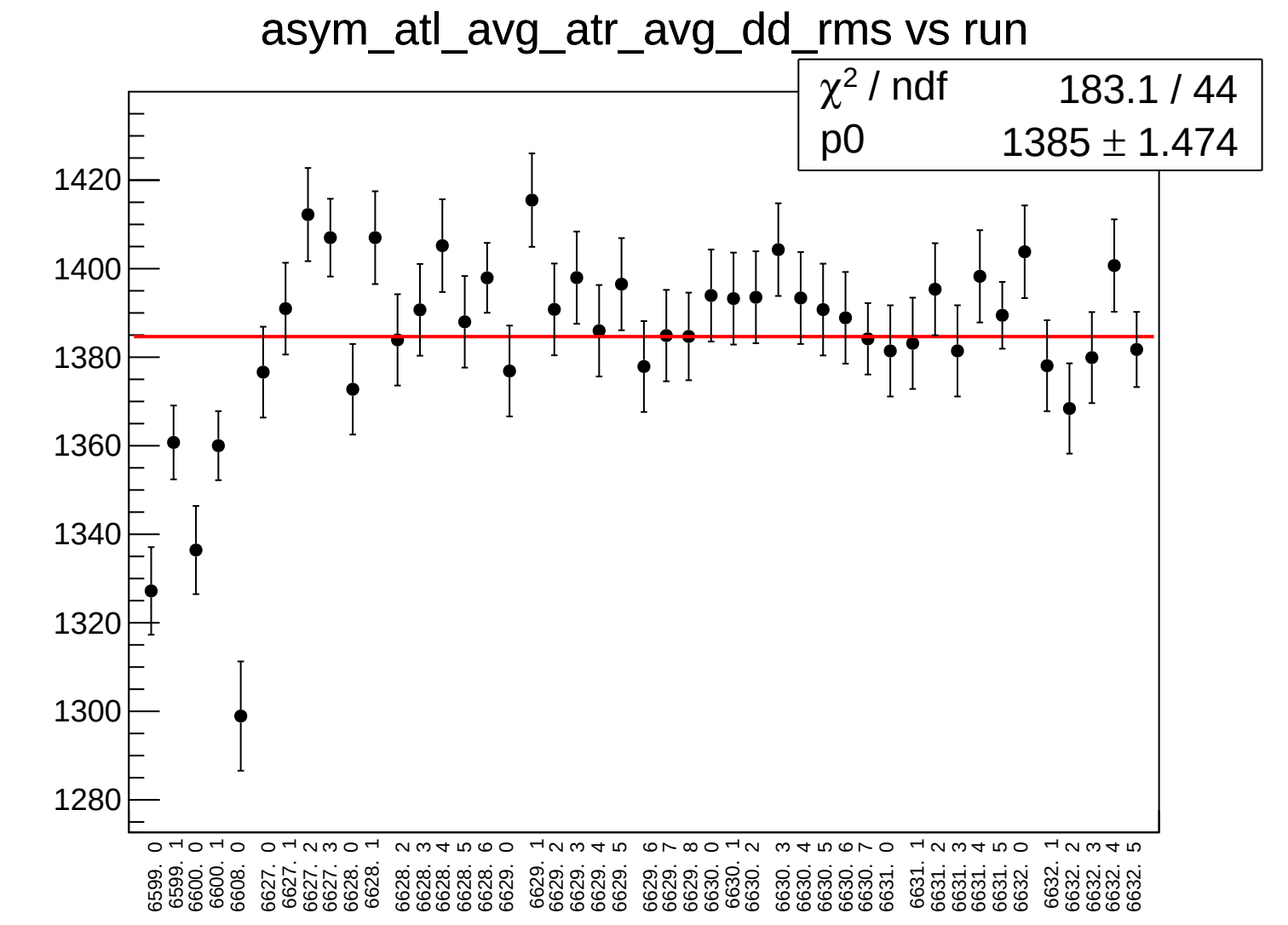
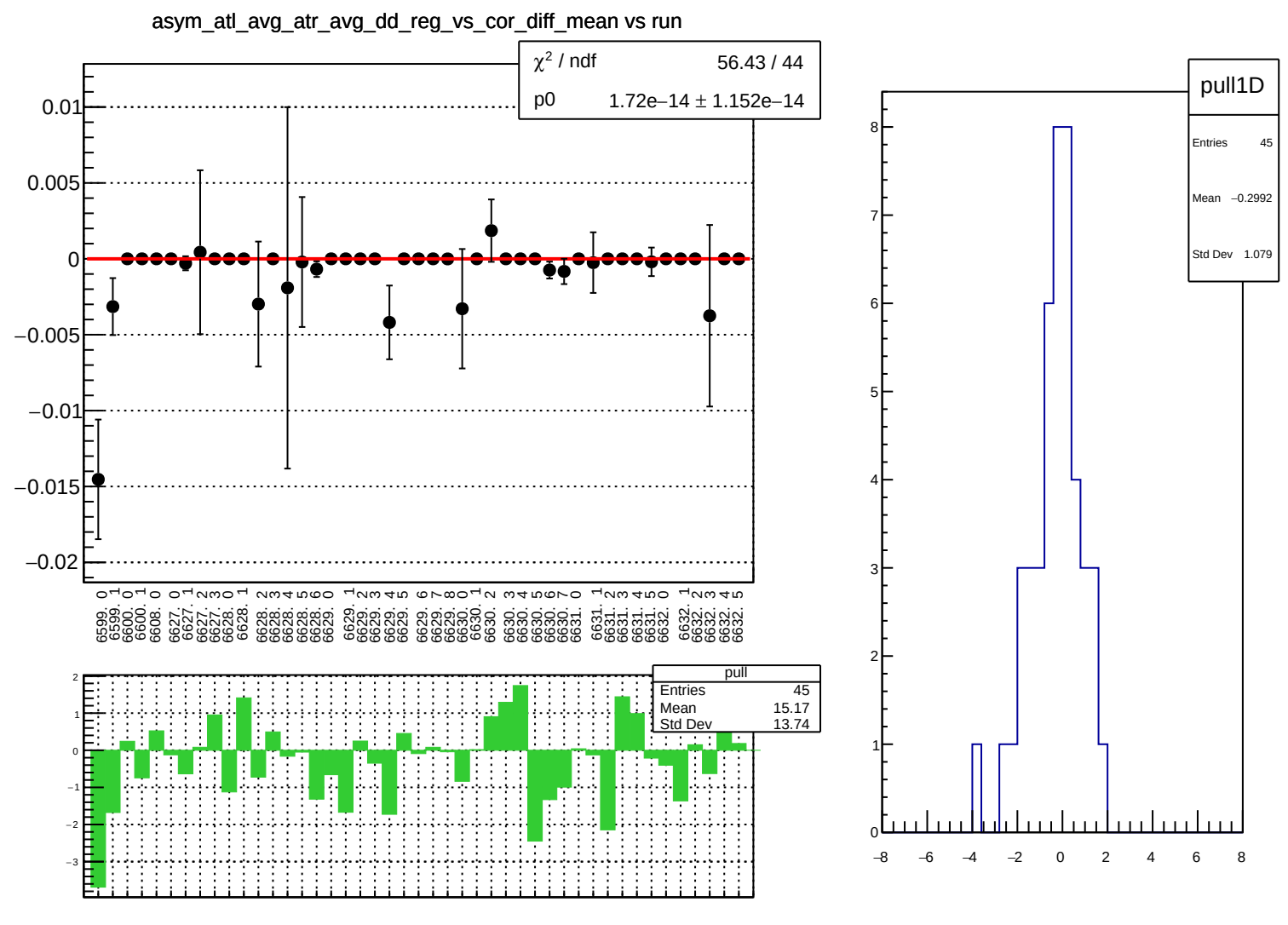
6632. 5

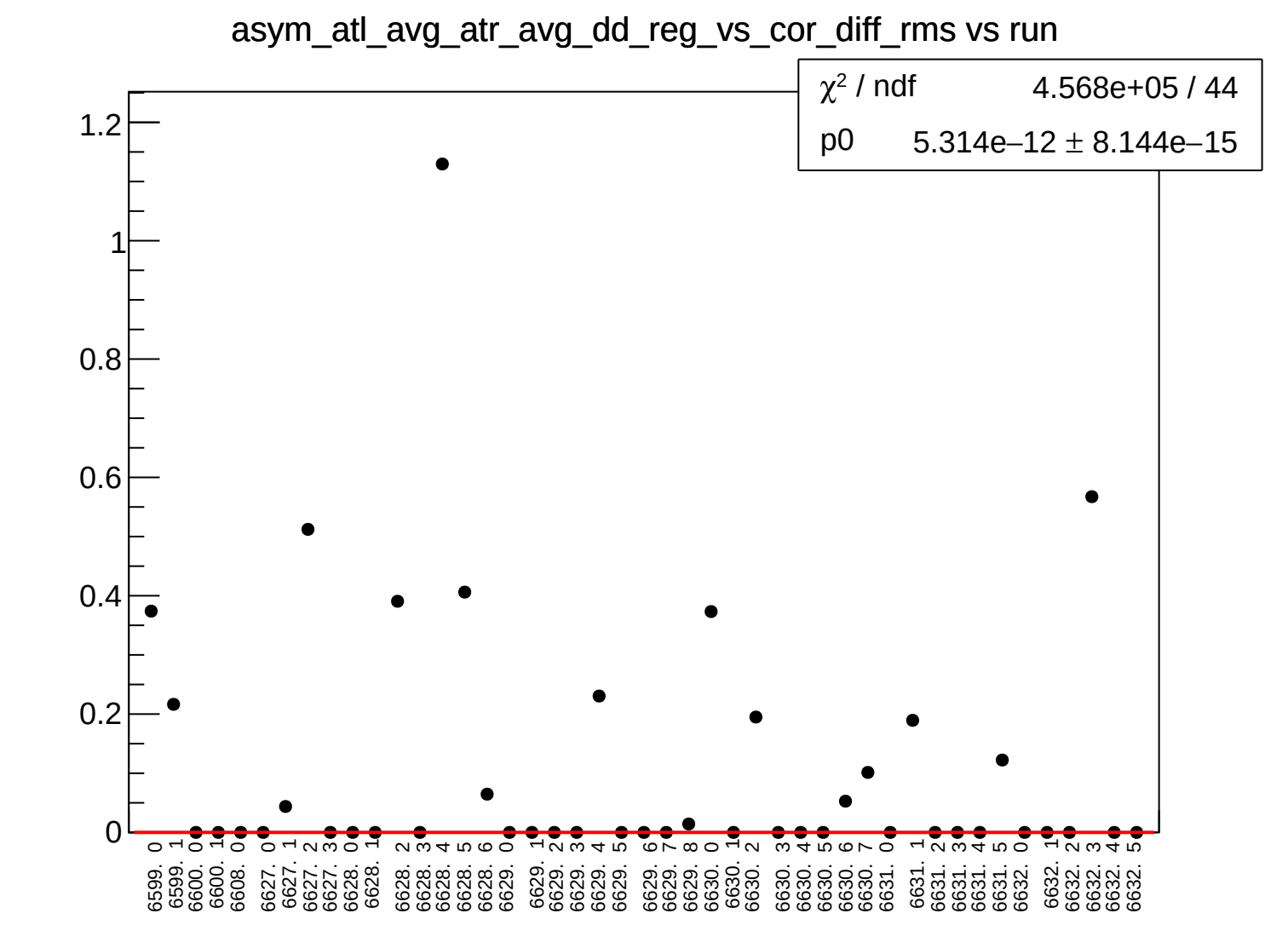

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 61.19 / 44
p0 914.8 ± 545.5
50000
40000
30000
20000
10000
0
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −18.15
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.014
Std Dev 1.166
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

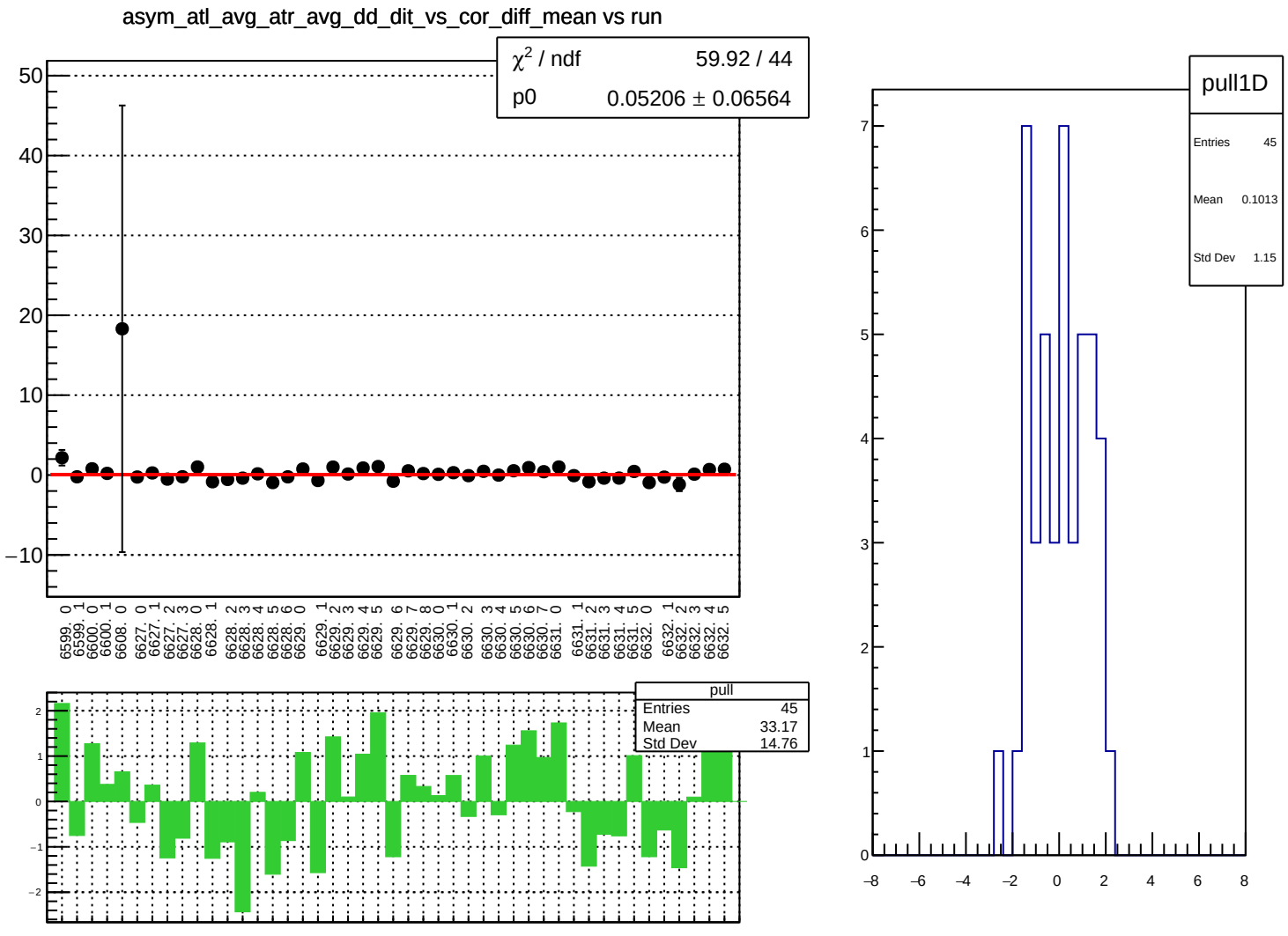

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.284e+04 / 44
p0 359.7 ± 0.3857
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

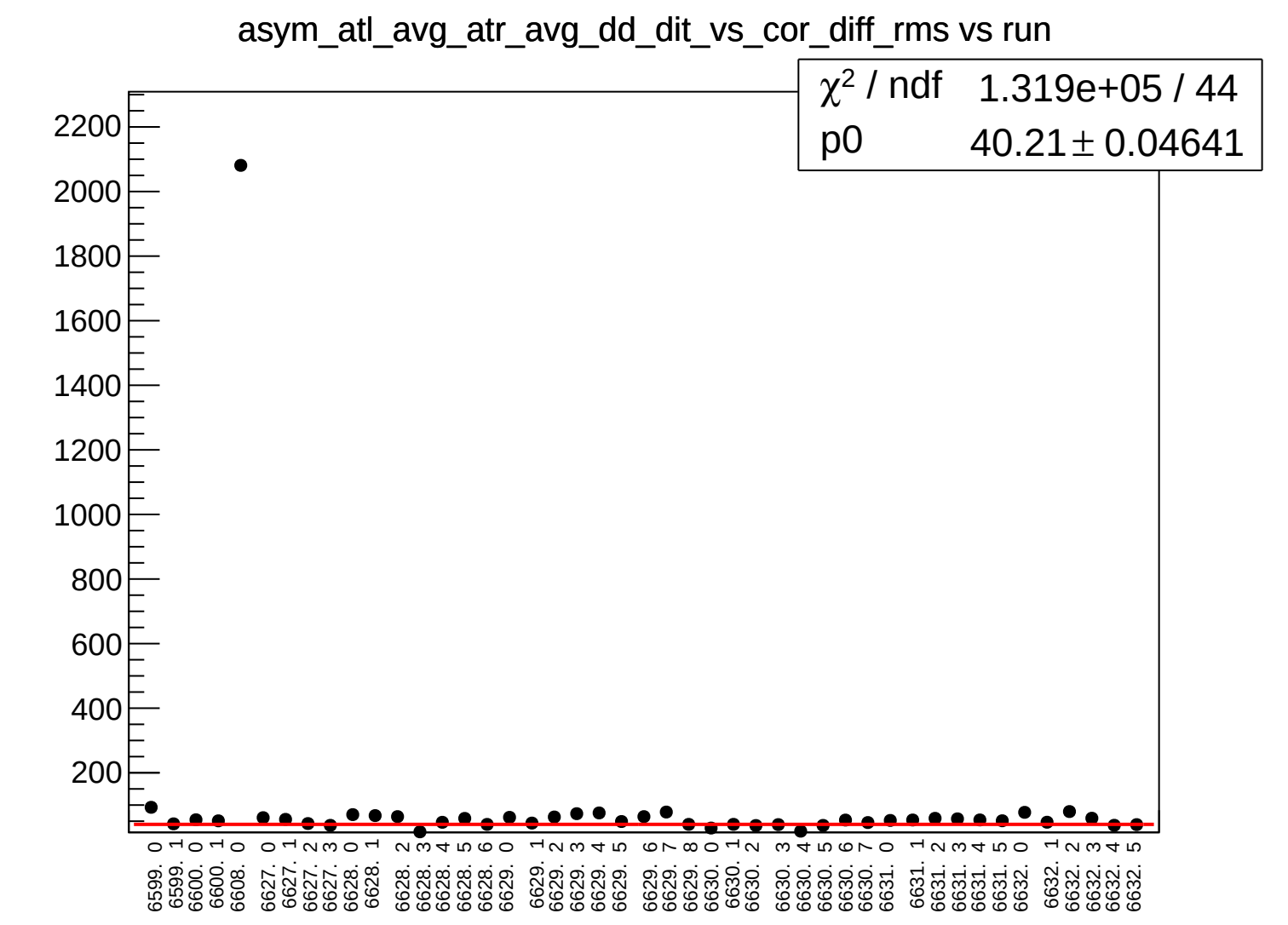

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 45.1 / 44
p0 1663 ± 2085
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −84.26
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02038
Std Dev 1.001
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

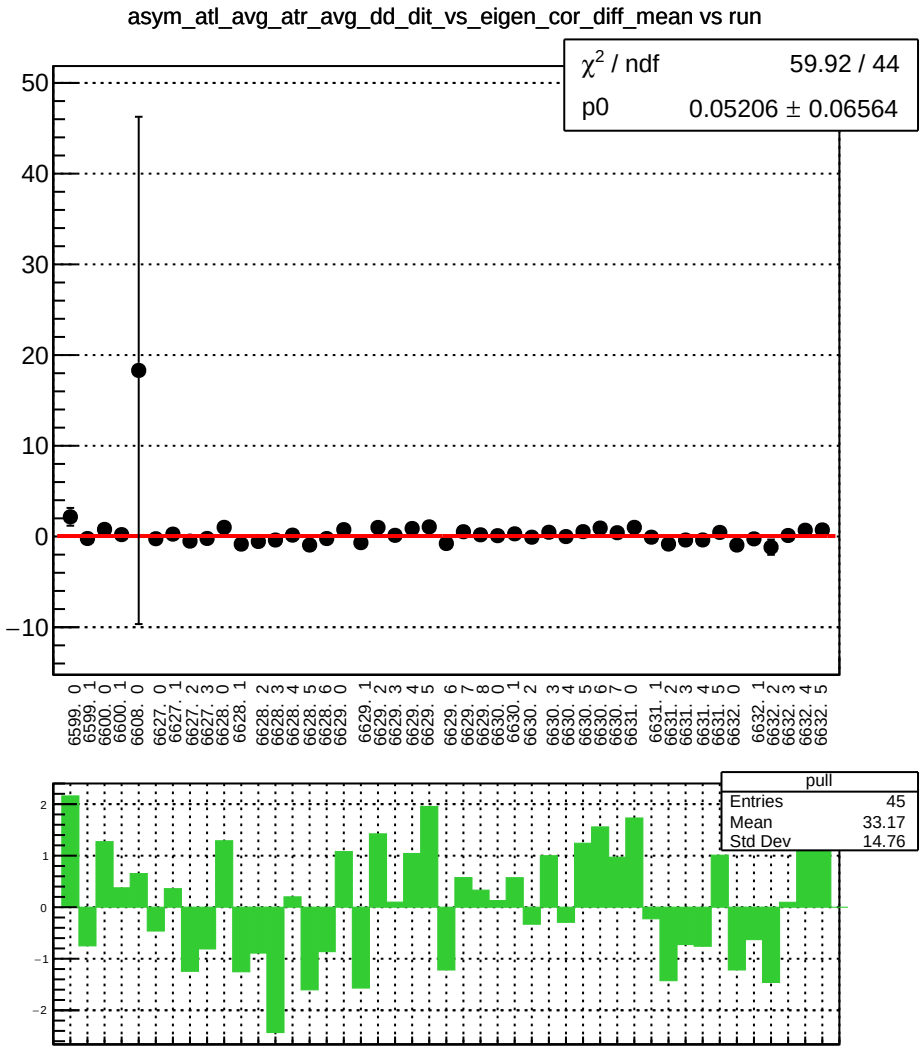

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 183.1 / 44
p0 1385 ± 1.474
1420
1400
1380
1360
1340
1320
1300
1280
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

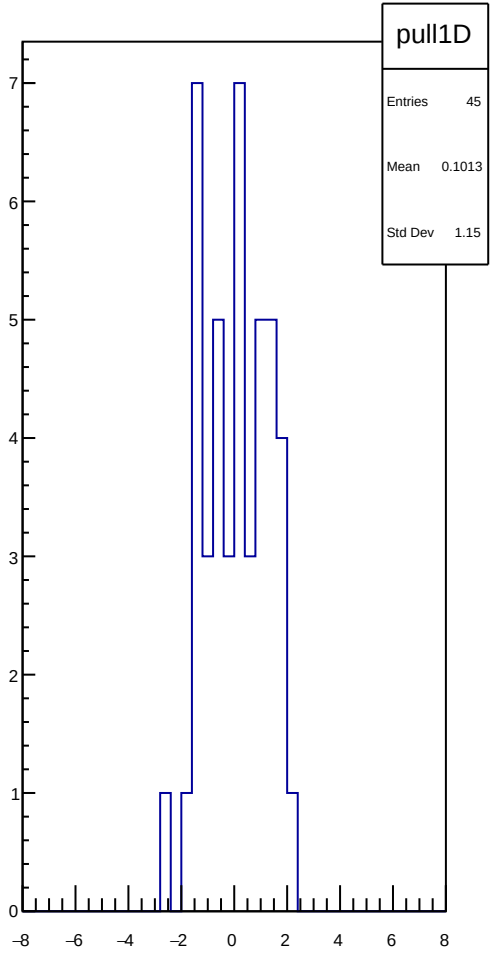

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 56.43 / 44
p0 1.72e−14 ± 1.152e−14
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 15.17
Std Dev 13.74
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.2992
Std Dev 1.079
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

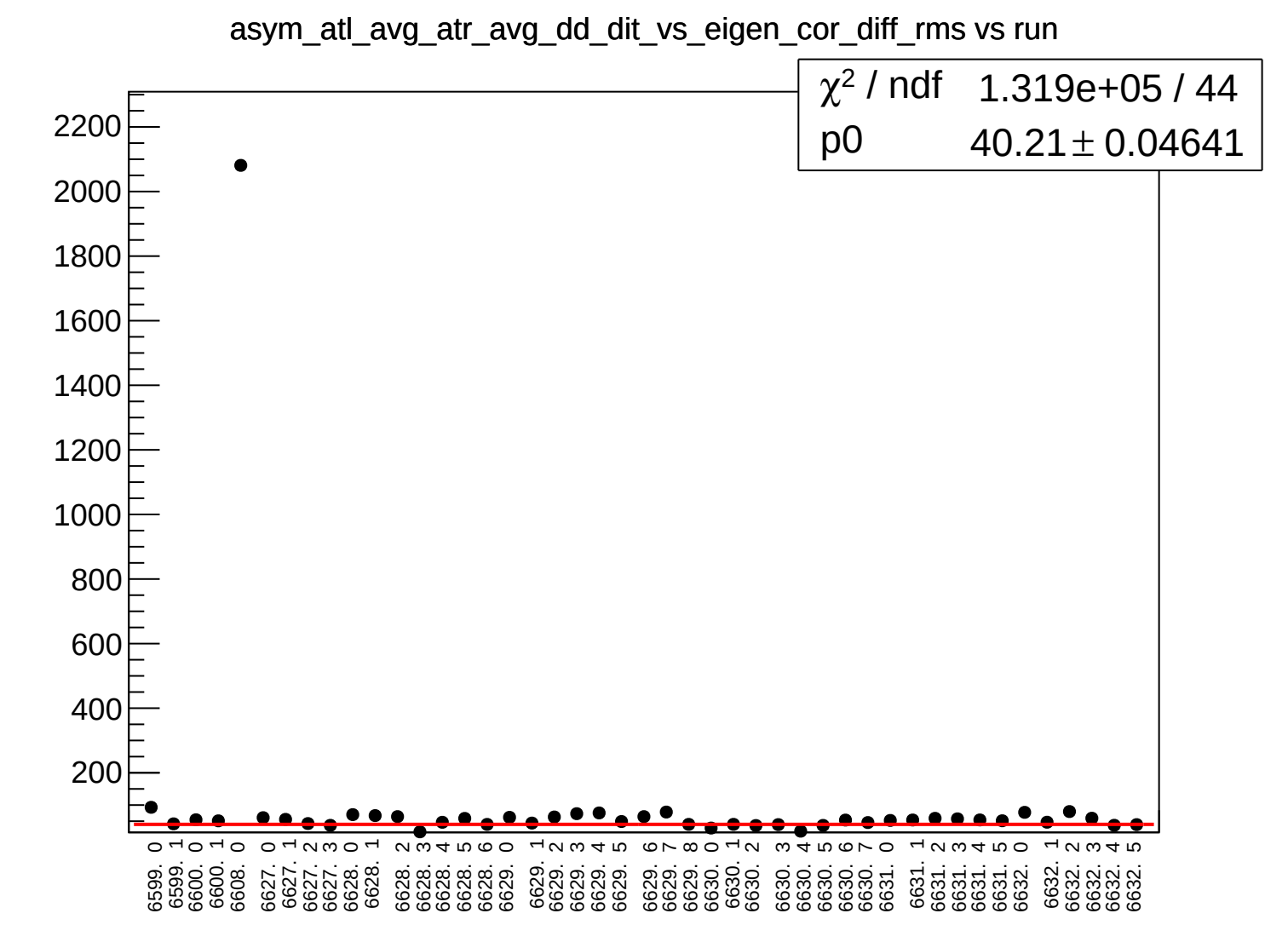

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.568e+05 / 44
p0 5.314e−12 ± 8.144e−15
1.2
1
0.8
0.6
0.4
0.2
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

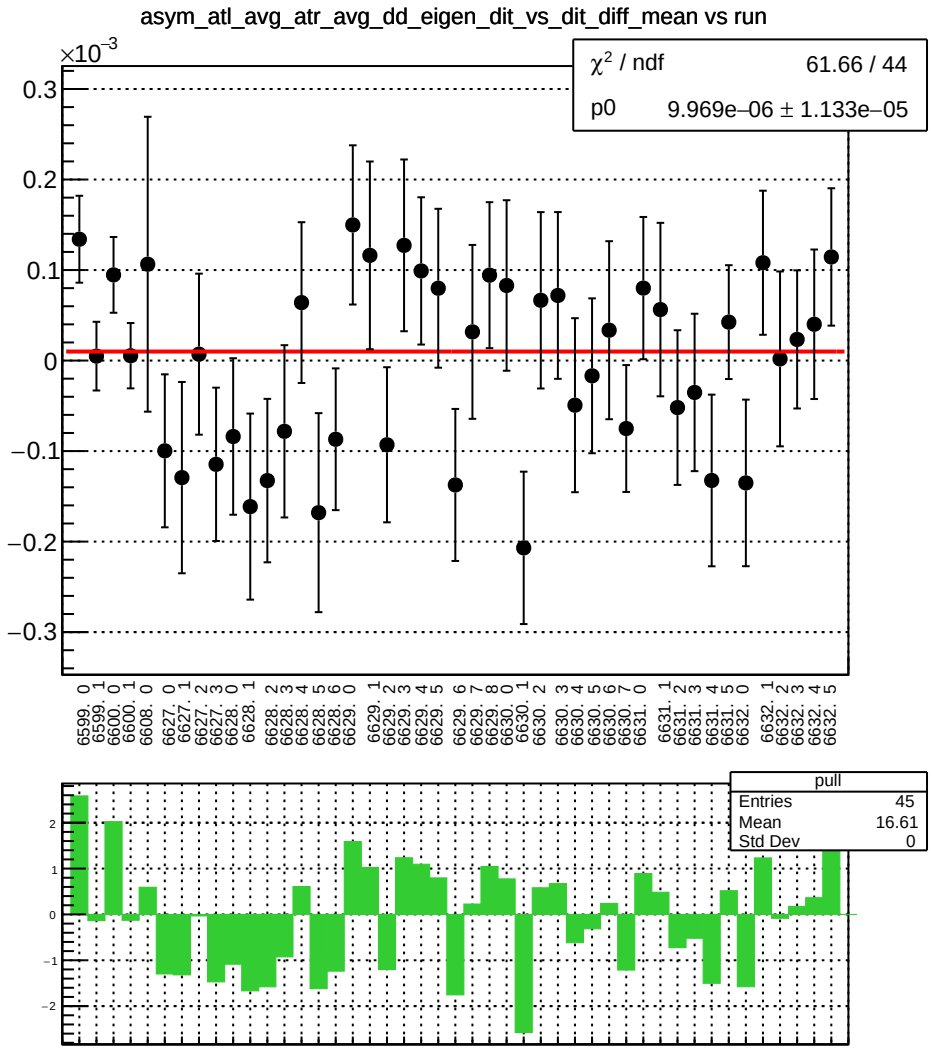

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 59.92 / 44
p0 0.05206 ± 0.06564
pull
Entries 45
Mean 33.17
Std Dev 14.76
pull1D
Entries 45
Mean 0.1013
Std Dev 1.15

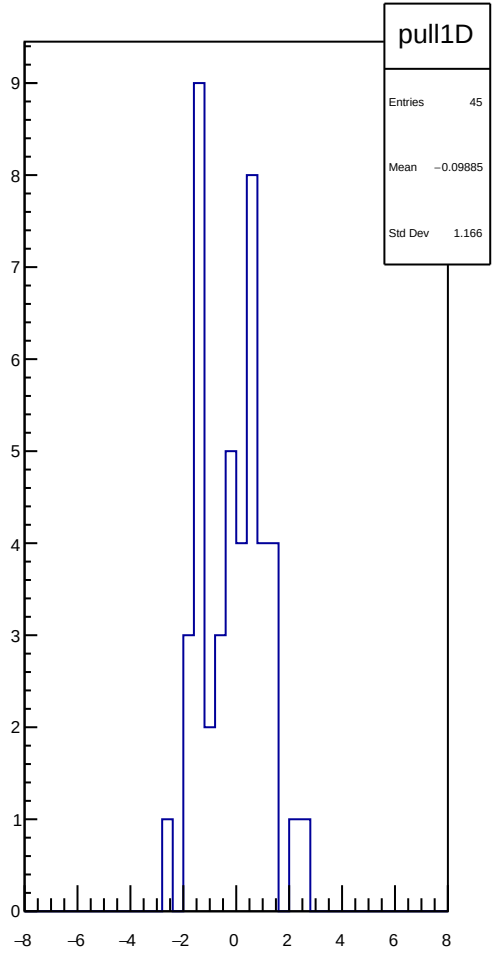

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.319e+05 / 44
p0 40.21 ± 0.04641
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

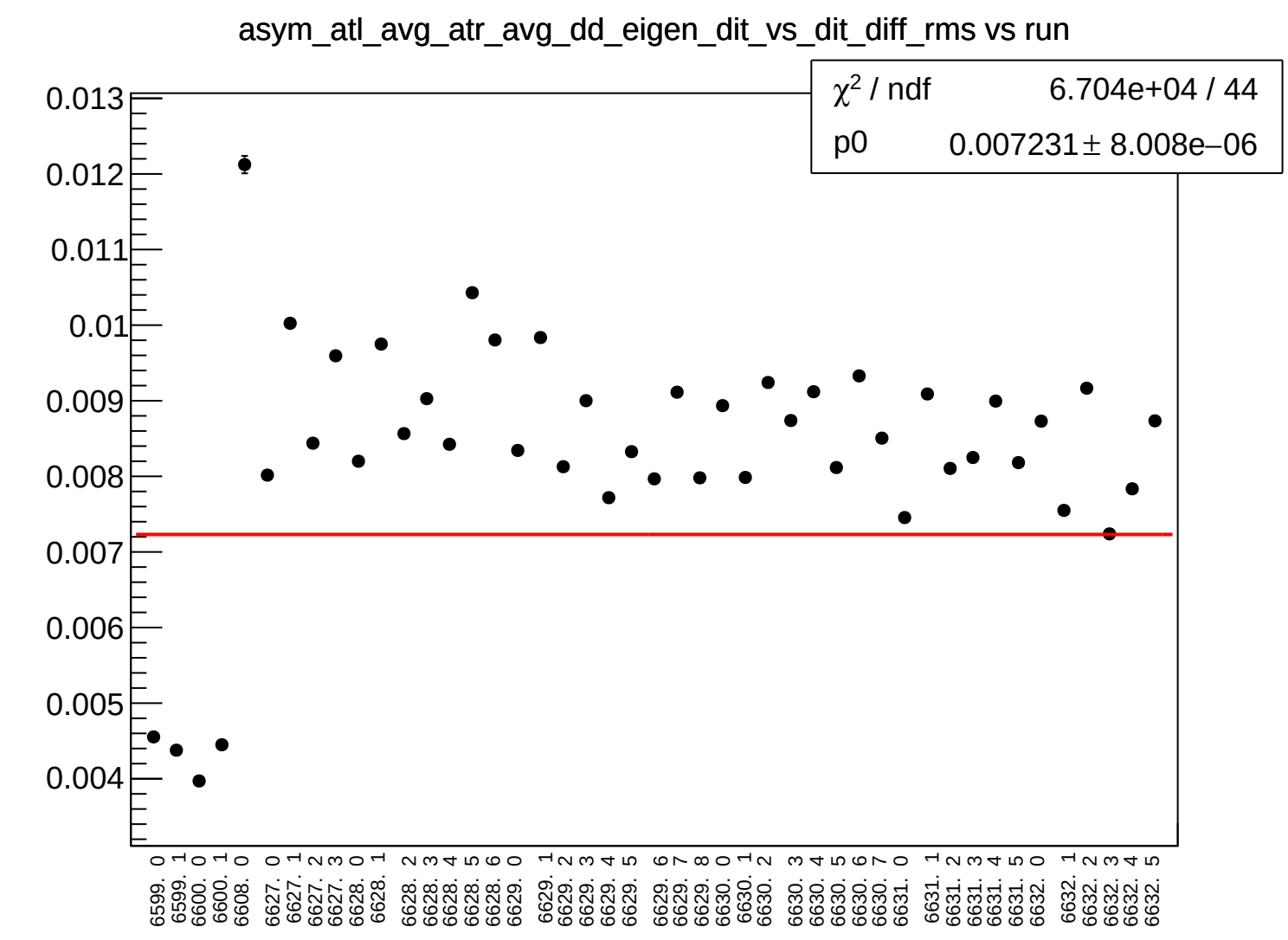

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 59.92 / 44
p0 0.05206 ± 0.06564
pull
Entries 45
Mean 33.17
Std Dev 14.76


pull1D
Entries 45
Mean 0.1013
Std Dev 1.15


asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.319e+05 / 44
p0 40.21 ± 0.04641
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 61.66 / 44
p0 9.969e−06 ± 1.133e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 16.61
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.09885
Std Dev 1.166
9
8
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 6.704e+04 / 44
p0 0.007231 ± 8.008e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
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6631. 0
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6632. 2
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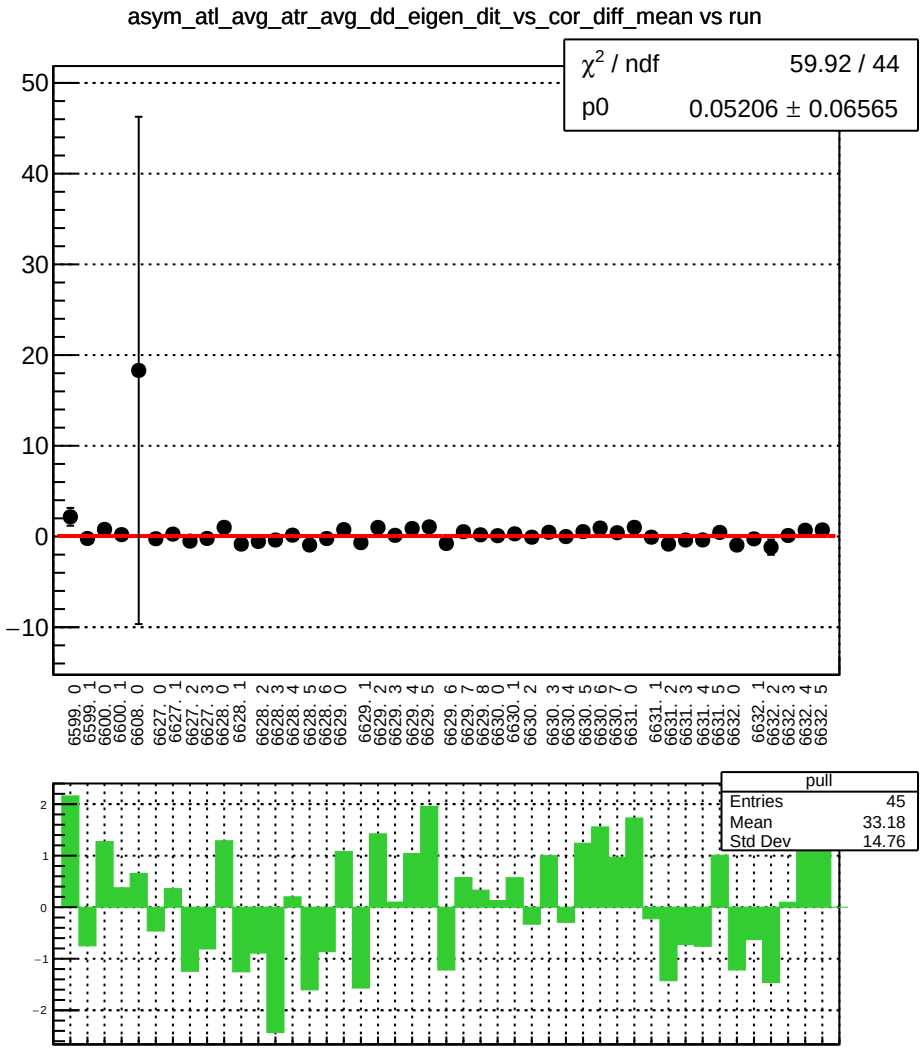
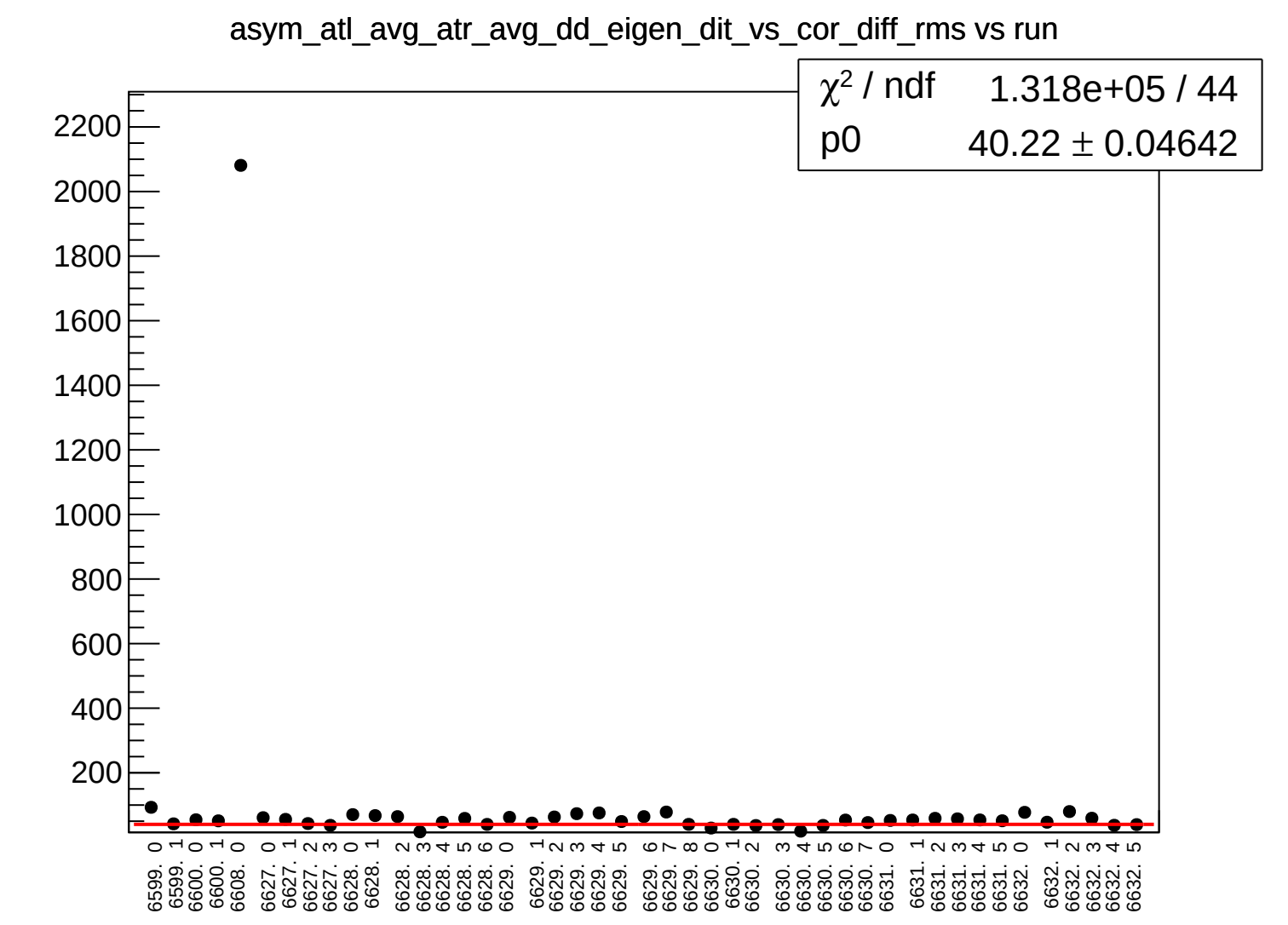
6632. 4
6632. 5


asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 59.92 / 44
p0 0.05206 ± 0.06565
pull
Entries 45
Mean 33.18
Std Dev 14.76
pull1D
Entries 45
Mean 0.1013
Std Dev 1.149


asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.318e+05 / 44
p0 40.22 ± 0.04642
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
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6630. 5
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6631. 0
6631. 1
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6631. 4
6631. 5
6632. 0
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6632. 2
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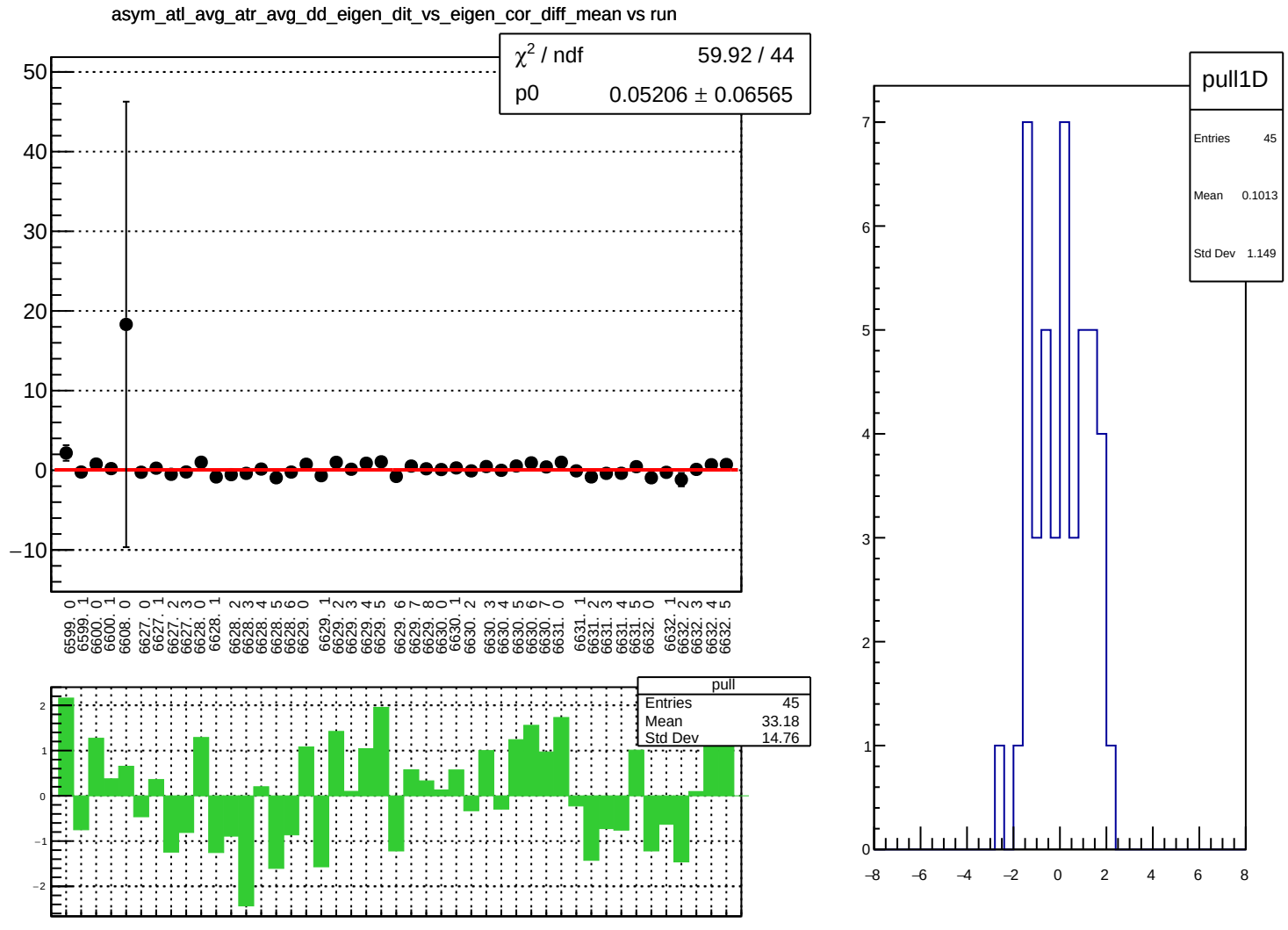
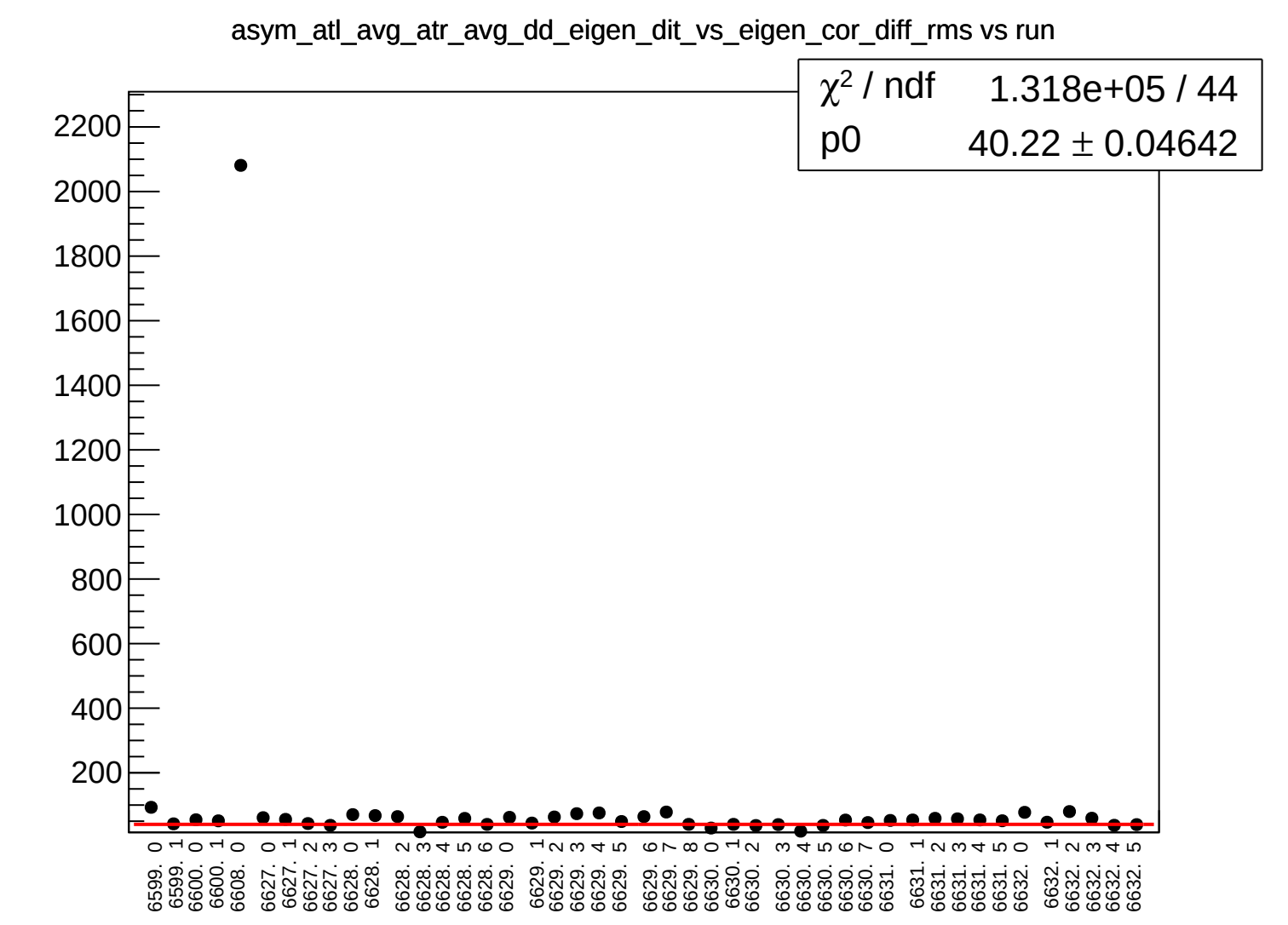
6632. 4
6632. 5


asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 59.92 / 44
p0 0.05206 ± 0.06565
pull
Entries 45
Mean 33.18
Std Dev 14.76
pull1D
Entries 45
Mean 0.1013
Std Dev 1.149


asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.318e+05 / 44
p0 40.22 ± 0.04642
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 4
6629. 5
6629. 6
6629. 7
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6630. 0
6630. 1
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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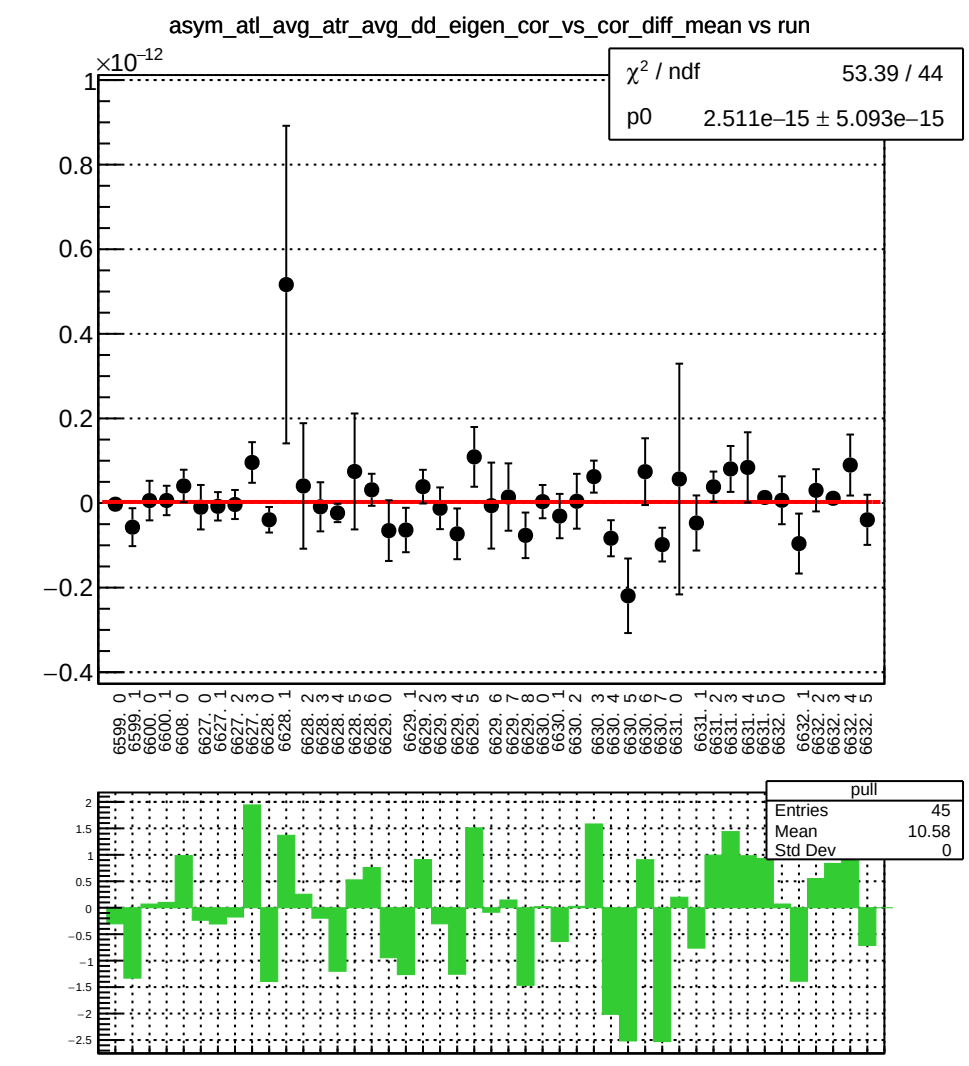
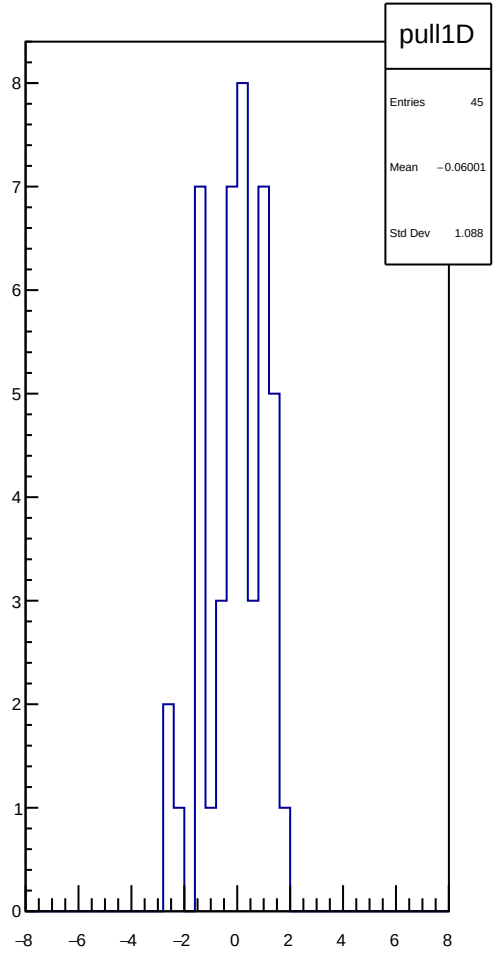
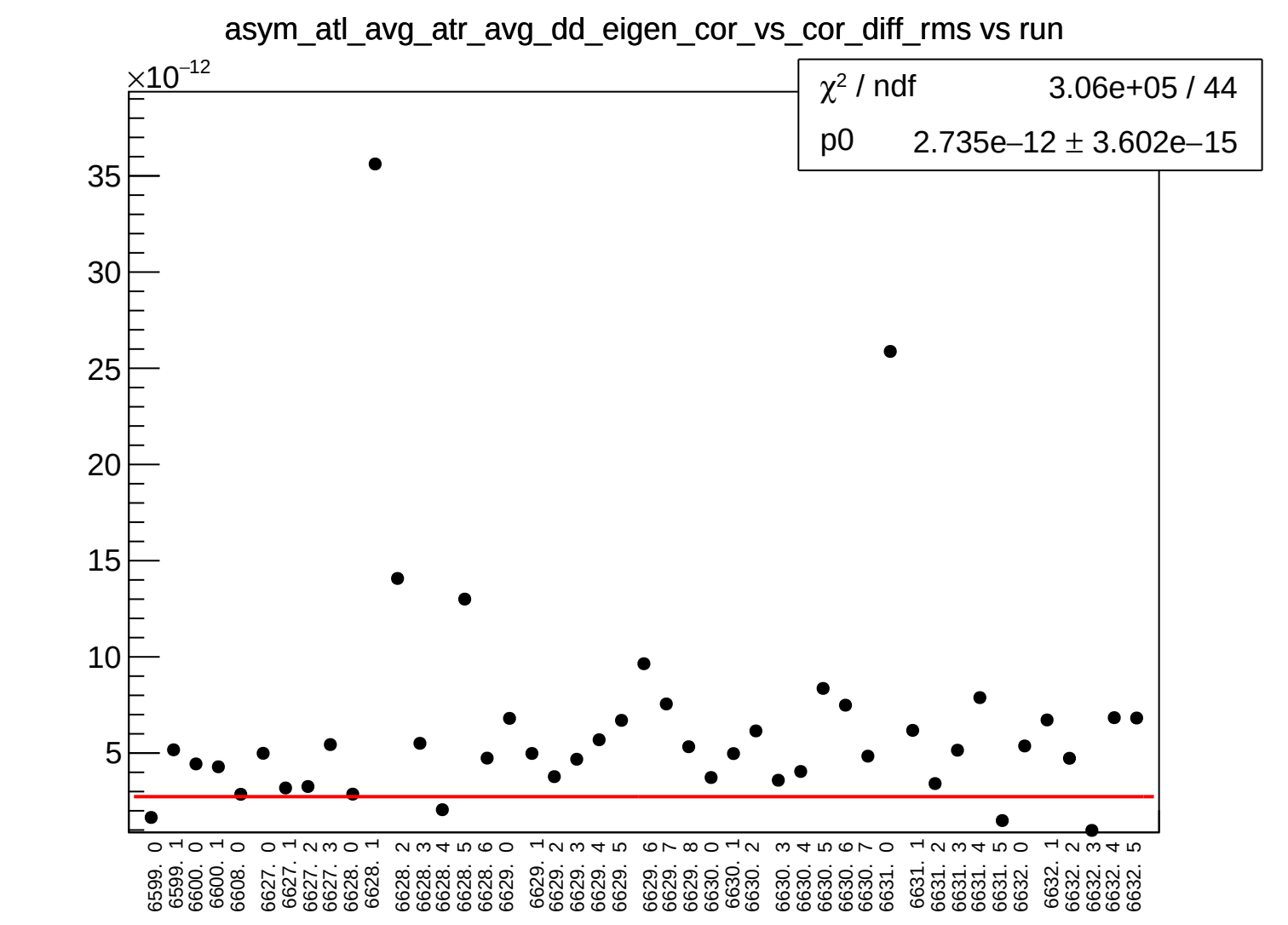
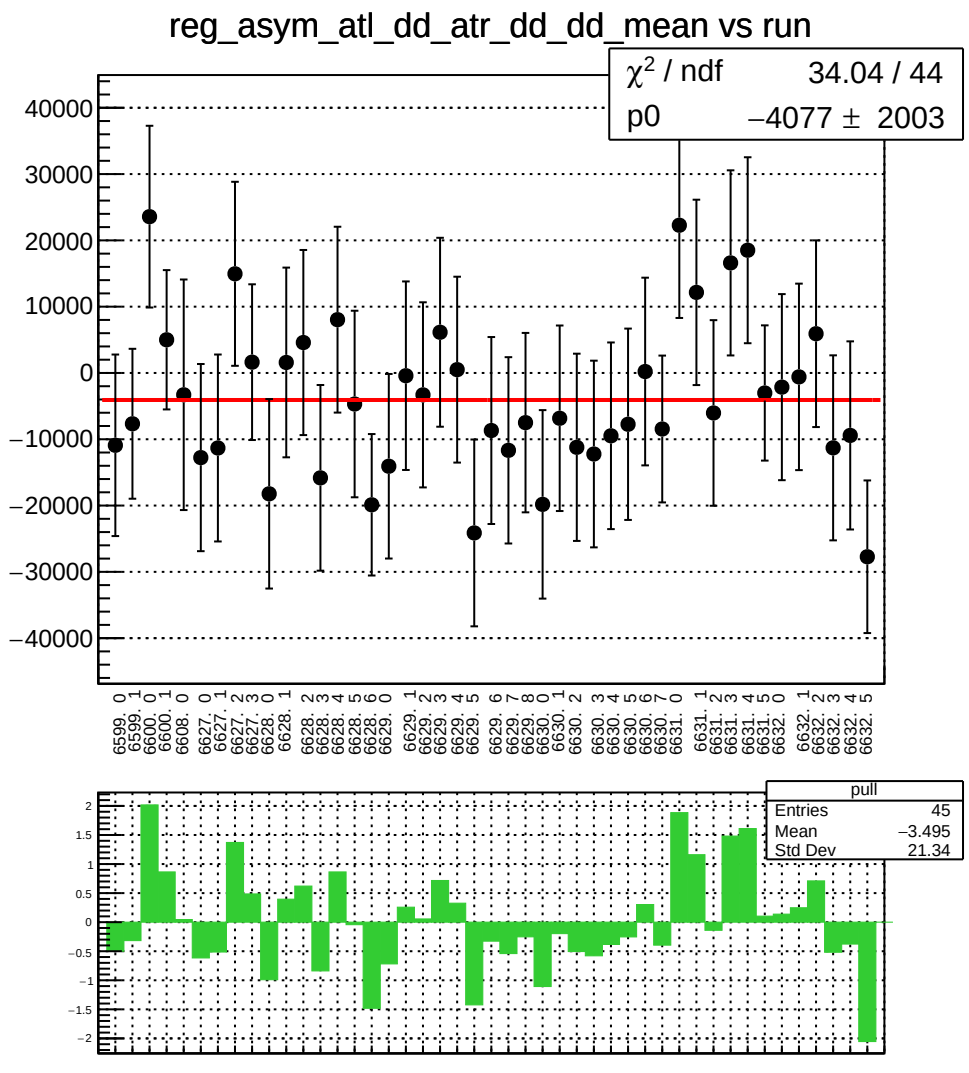
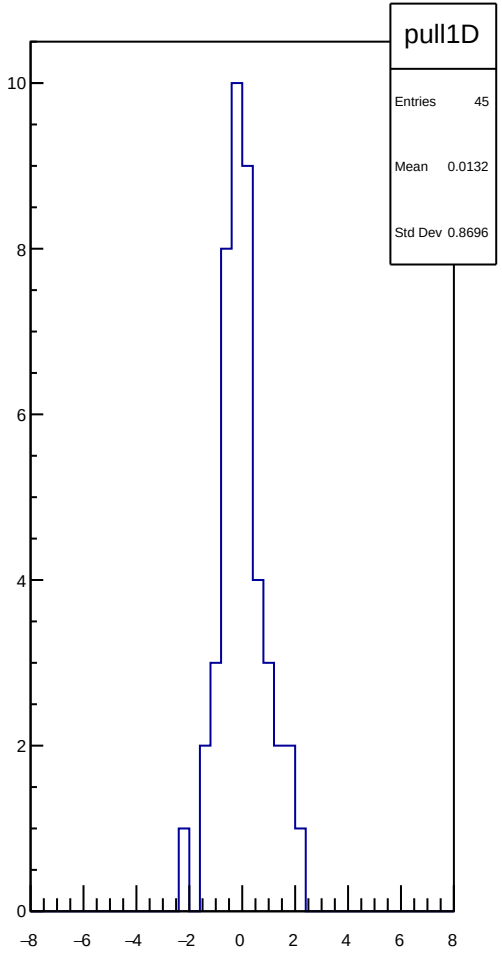
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

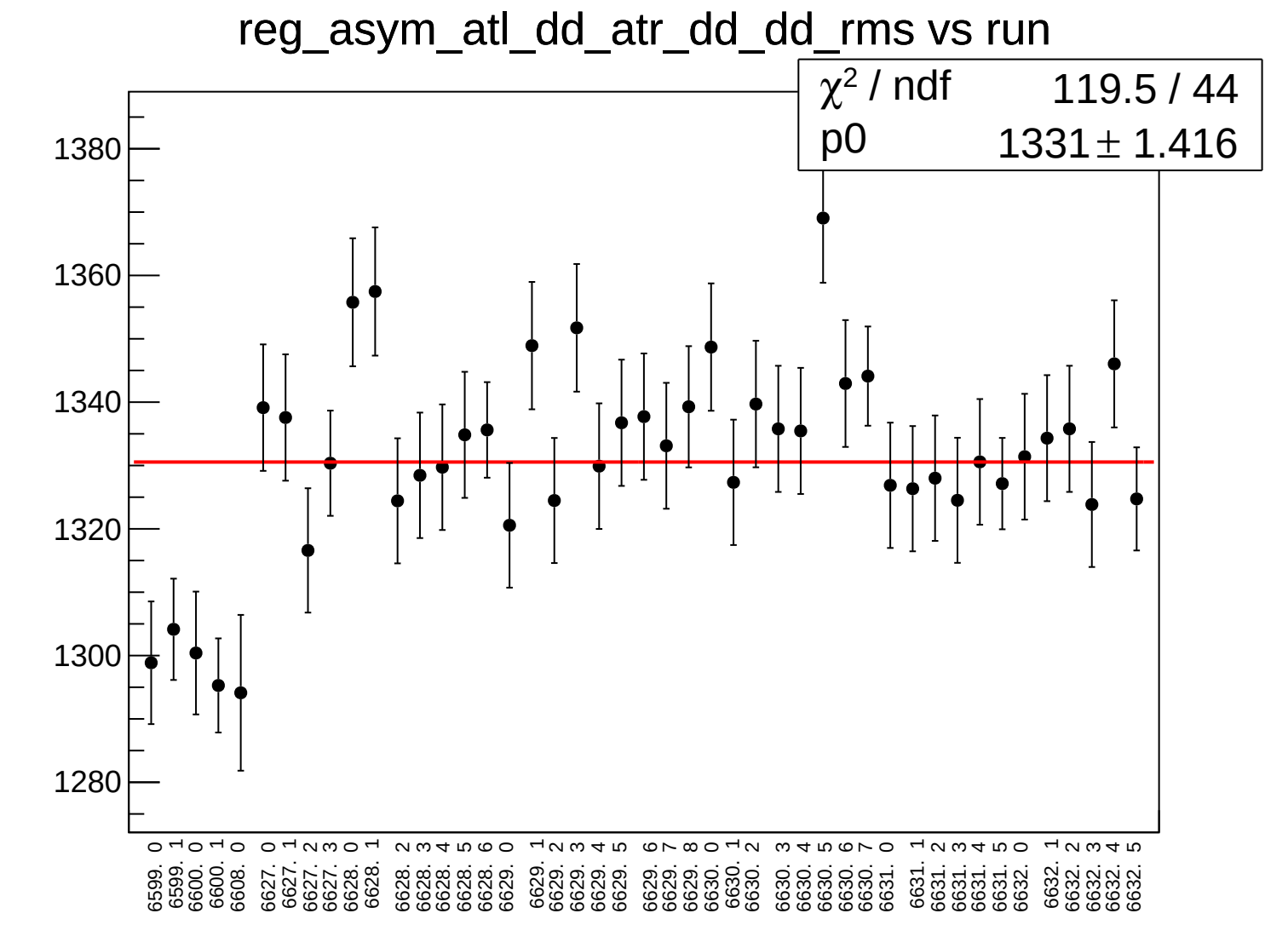

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 53.39 / 44
p0 2.511e−15 ± 5.093e−15
pull
Entries 45
Mean 10.58
Std Dev 0

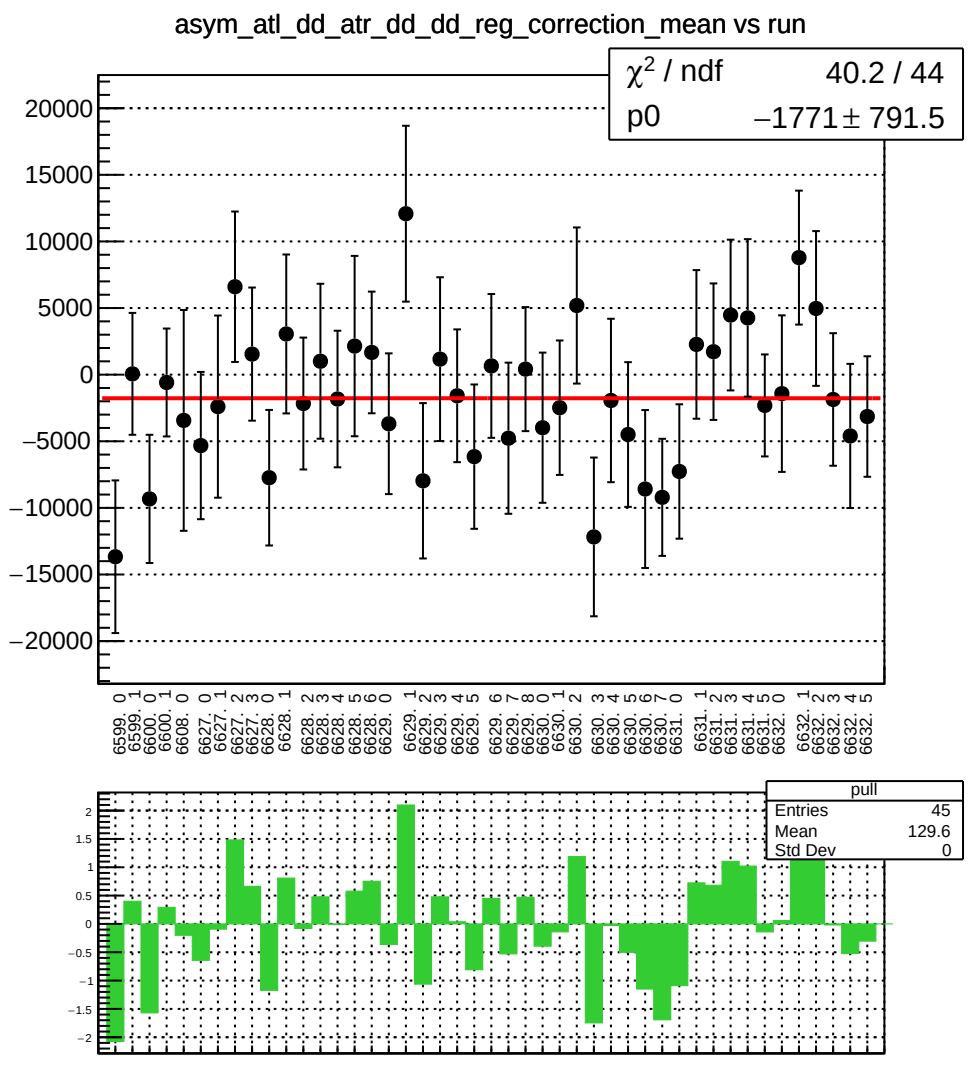

pull1D
Entries 45
Mean −0.06001
Std Dev 1.088

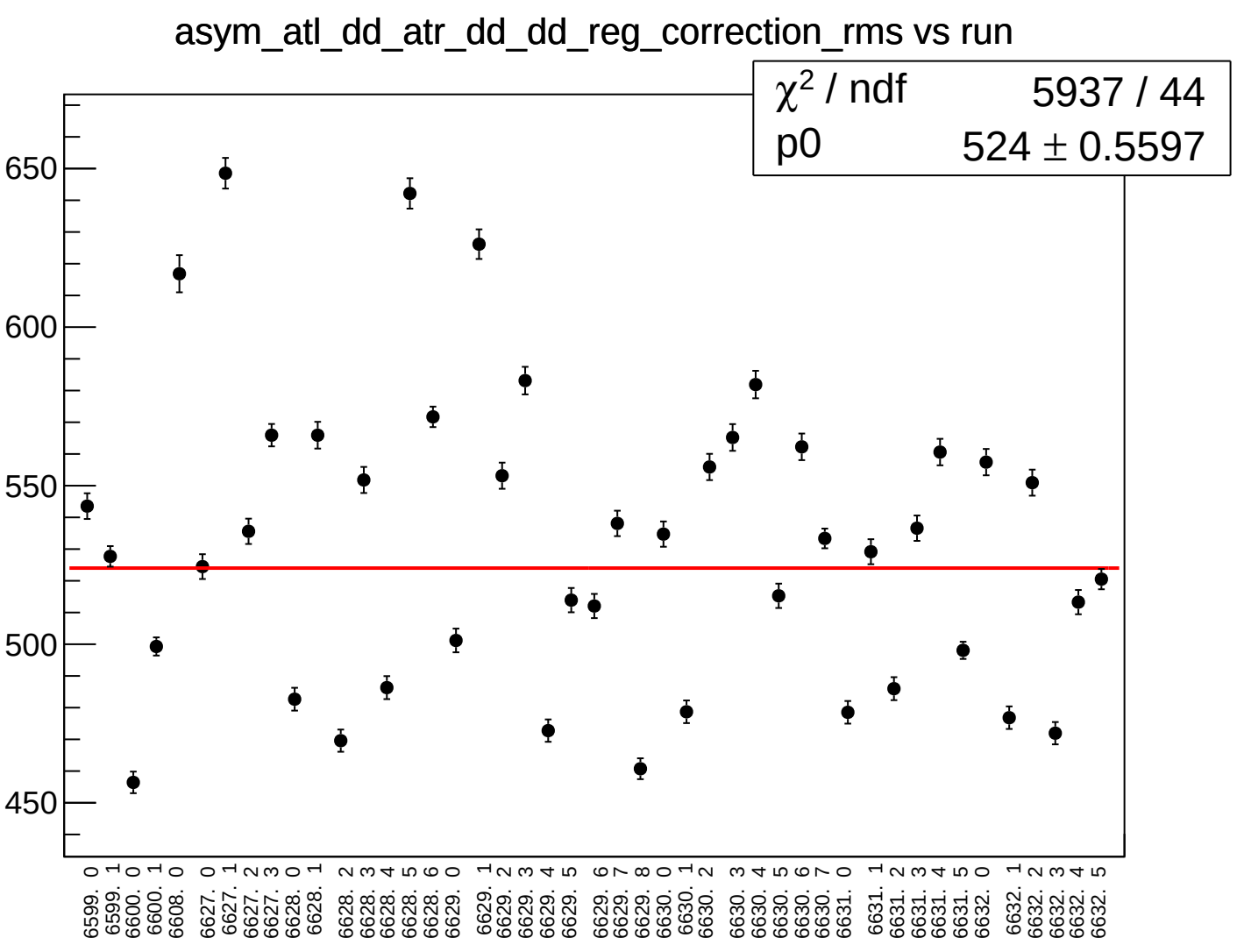

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.06e+05 / 44
p0 2.735e−12 ± 3.602e−15
35
30
25
20
15
10
5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

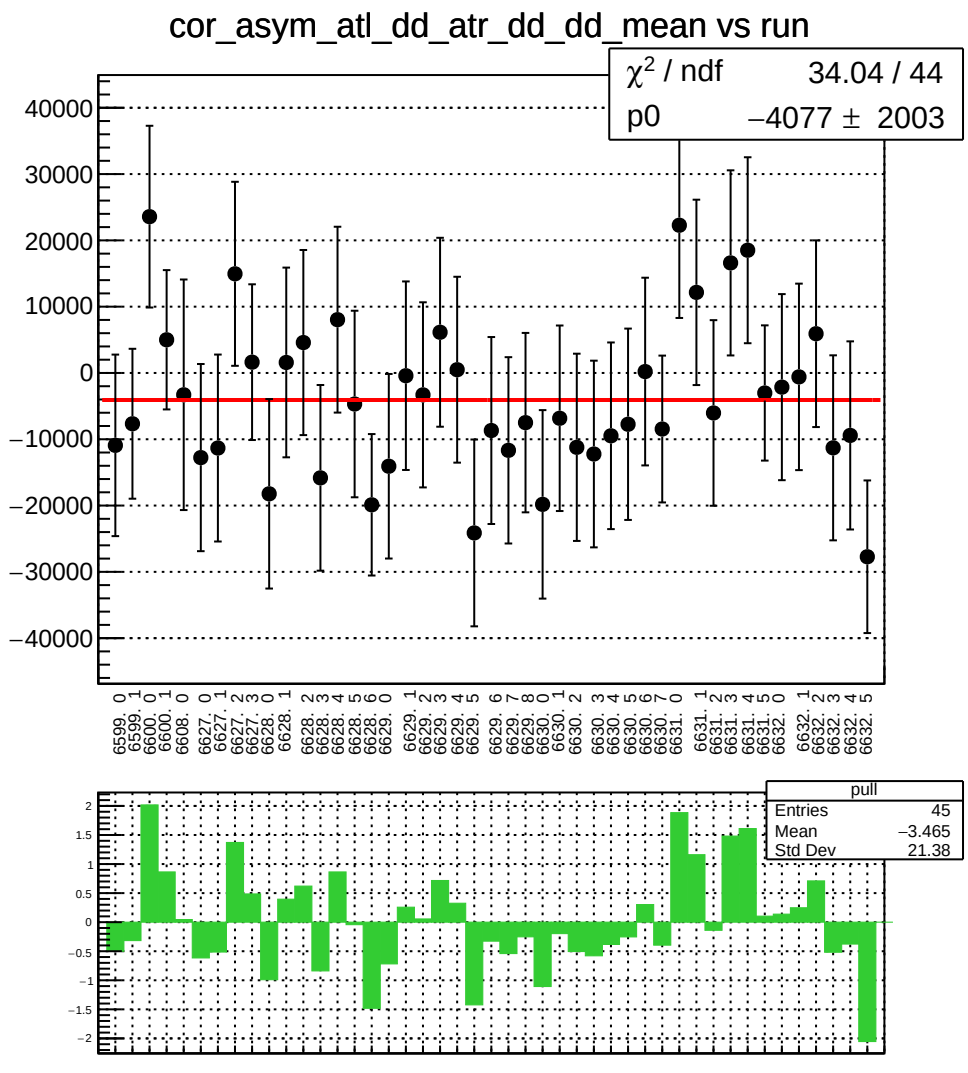

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 34.04 / 44
p0 −4077 ± 2003
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −3.495
Std Dev 21.34
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

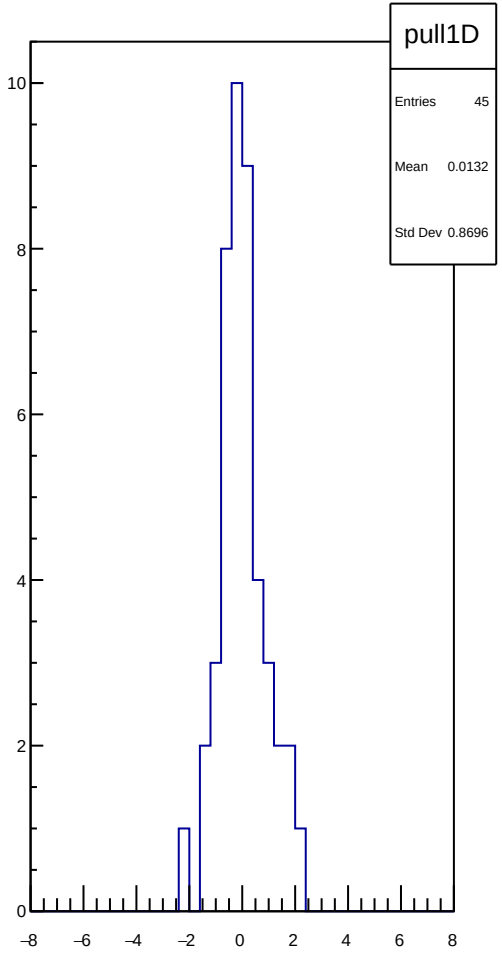

pull1D
Entries 45
Mean 0.0132
Std Dev 0.8696
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

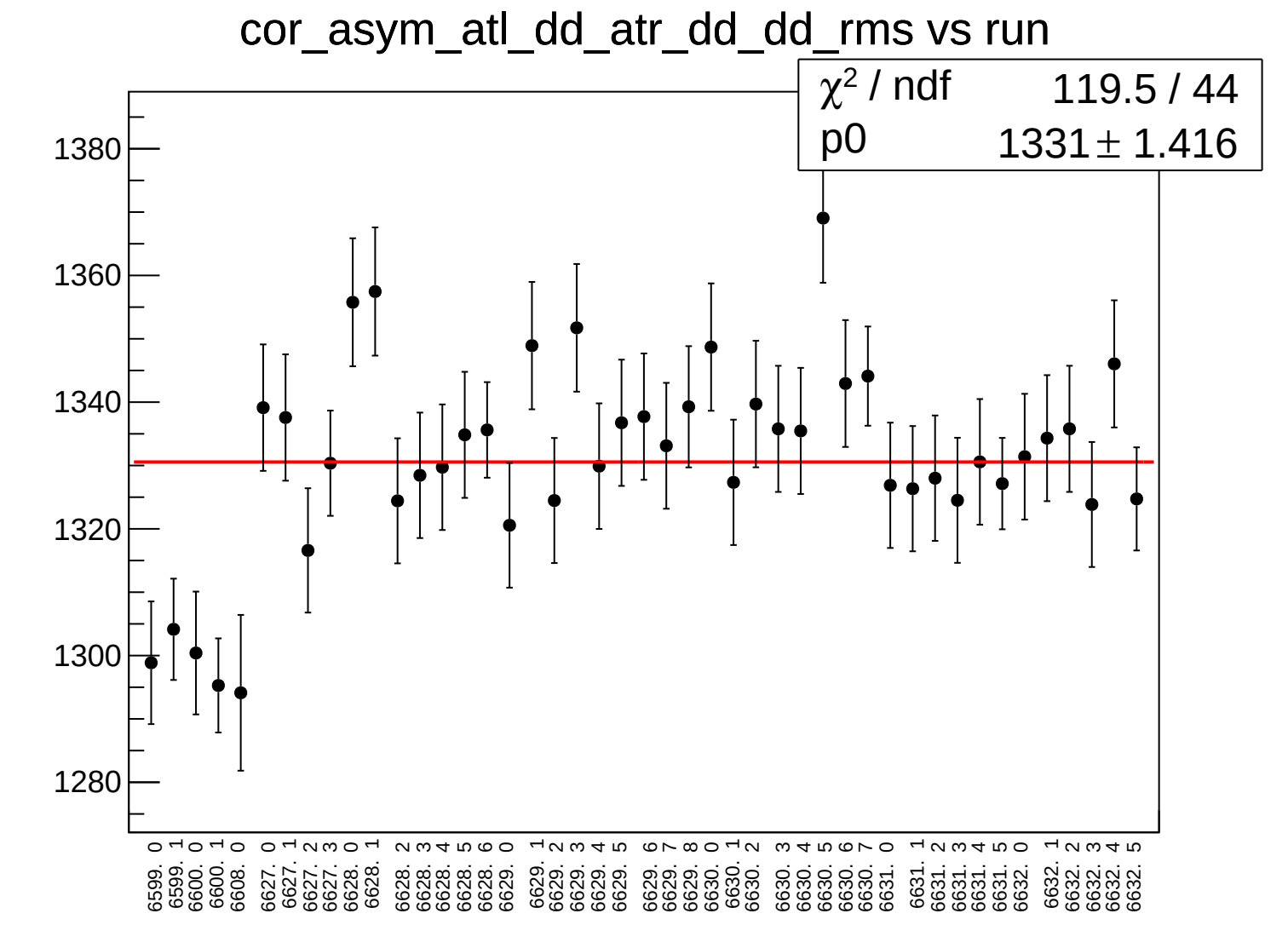

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 119.5 / 44
p0 1331 ± 1.416
1380
1360
1340
1320
1300
1280
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

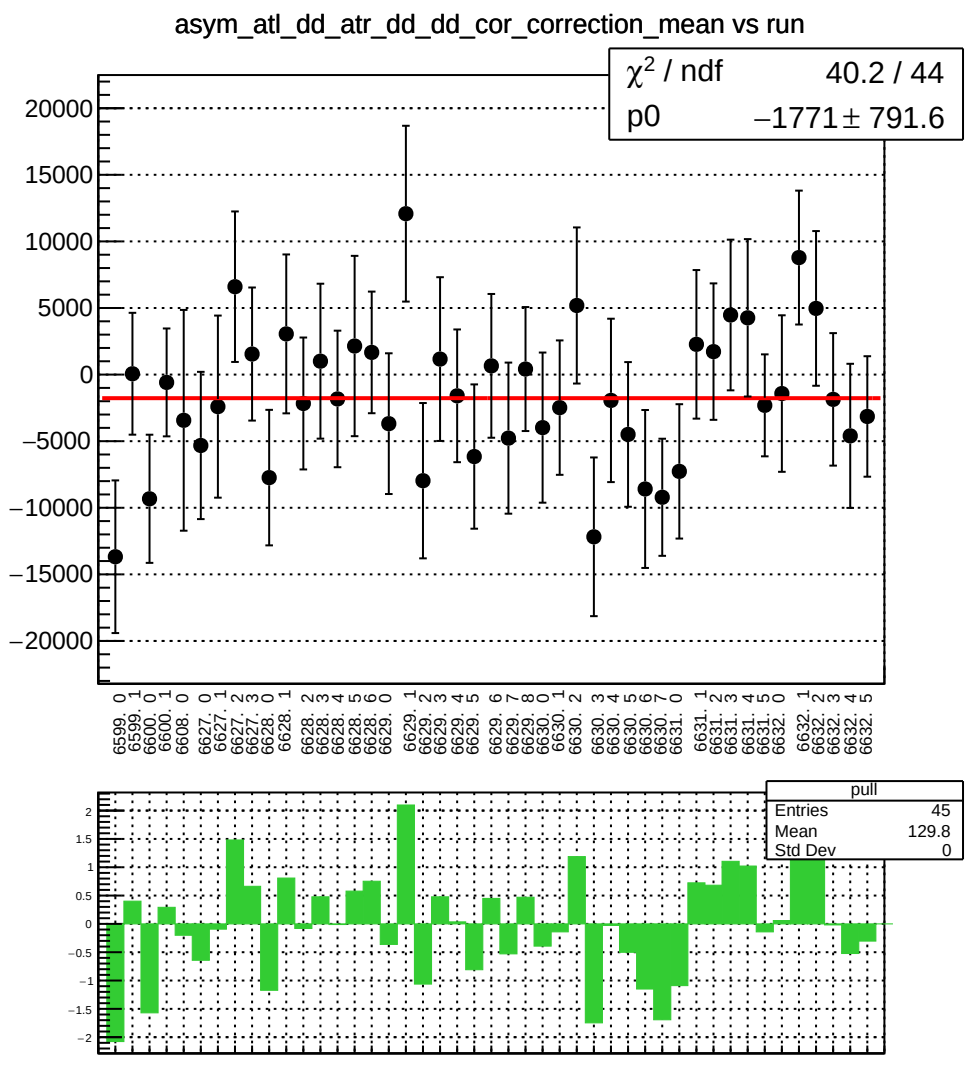

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 40.2 / 44
p0 −1771 ± 791.5
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 129.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01541
Std Dev 0.945
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

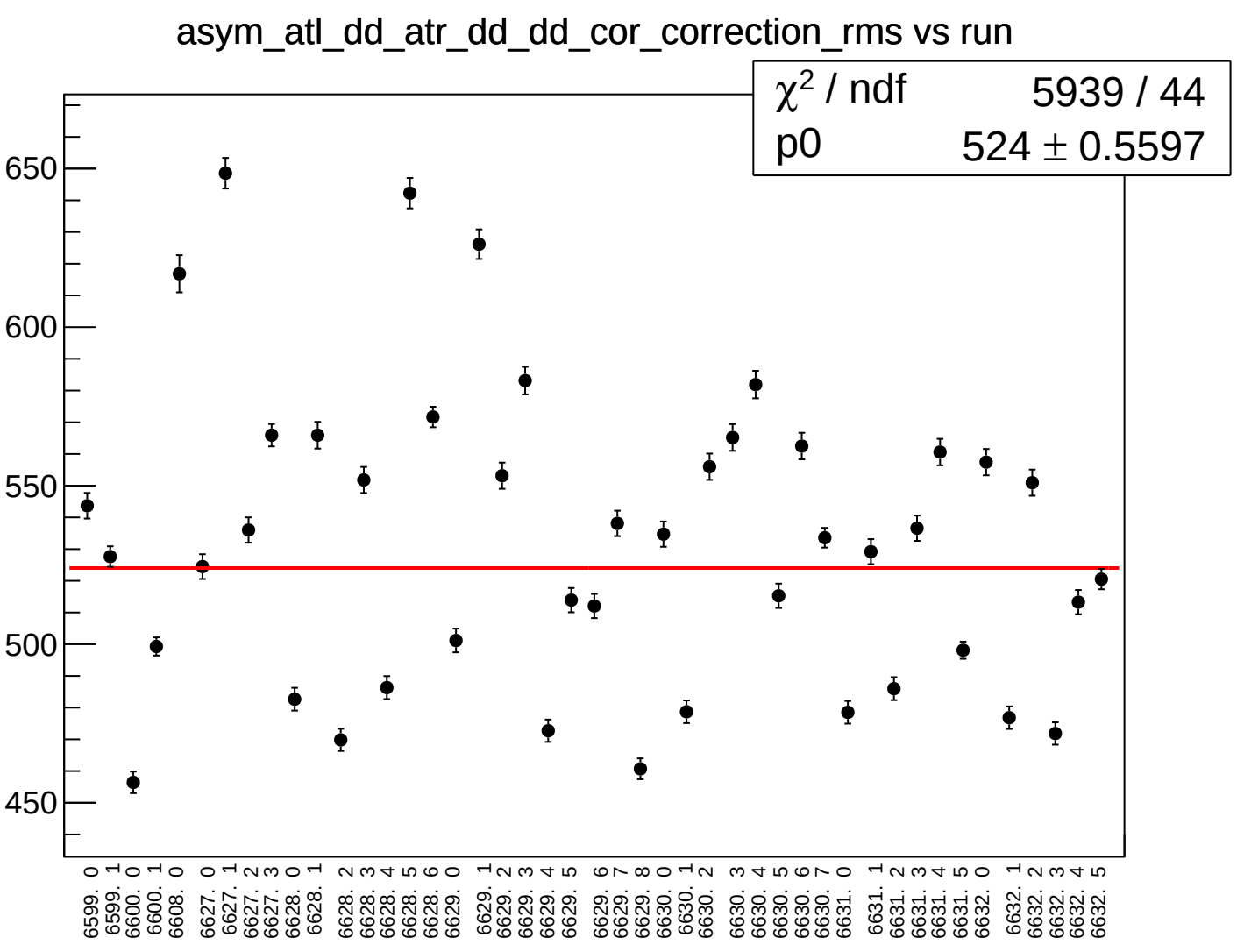

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 5937 / 44
p0 524 ± 0.5597
650
600
550
500
450
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

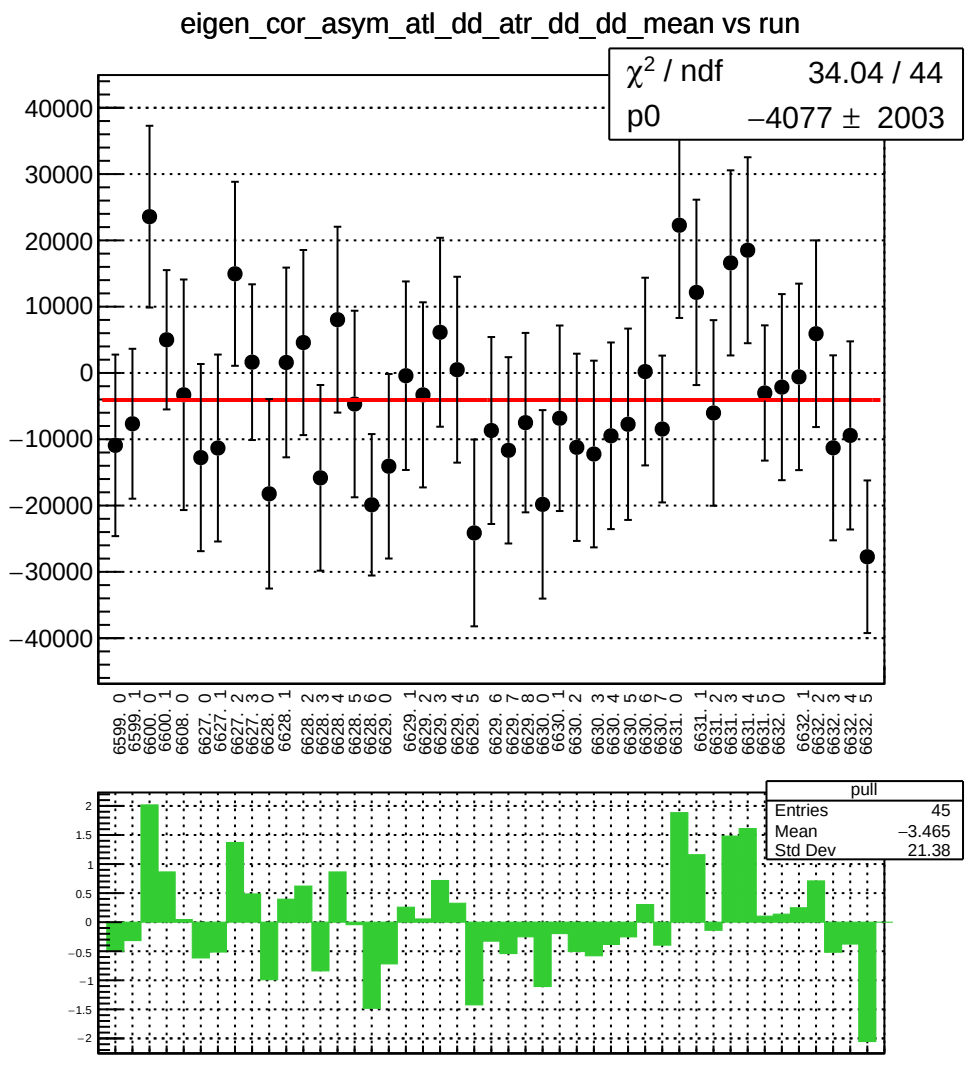

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 34.04 / 44
p0 −4077 ± 2003
pull
Entries 45
Mean −3.465
Std Dev 21.38

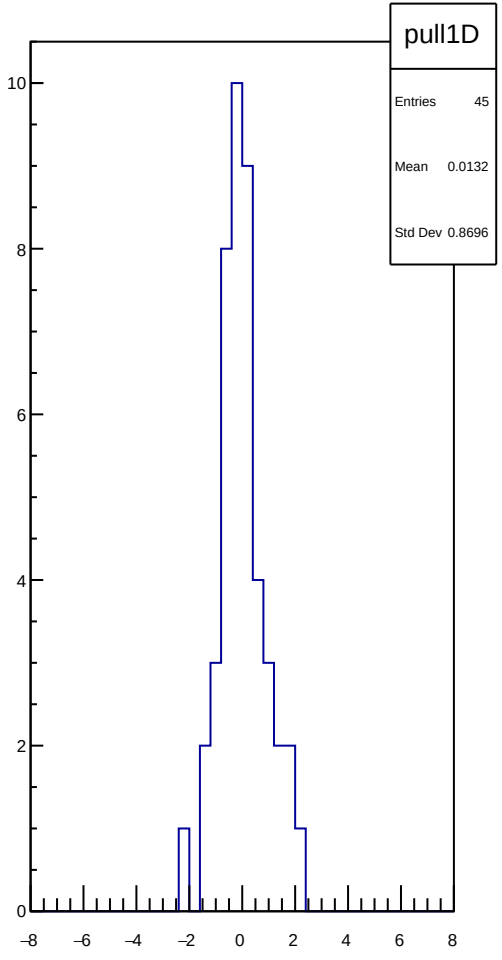

pull1D
Entries 45
Mean 0.0132
Std Dev 0.8696

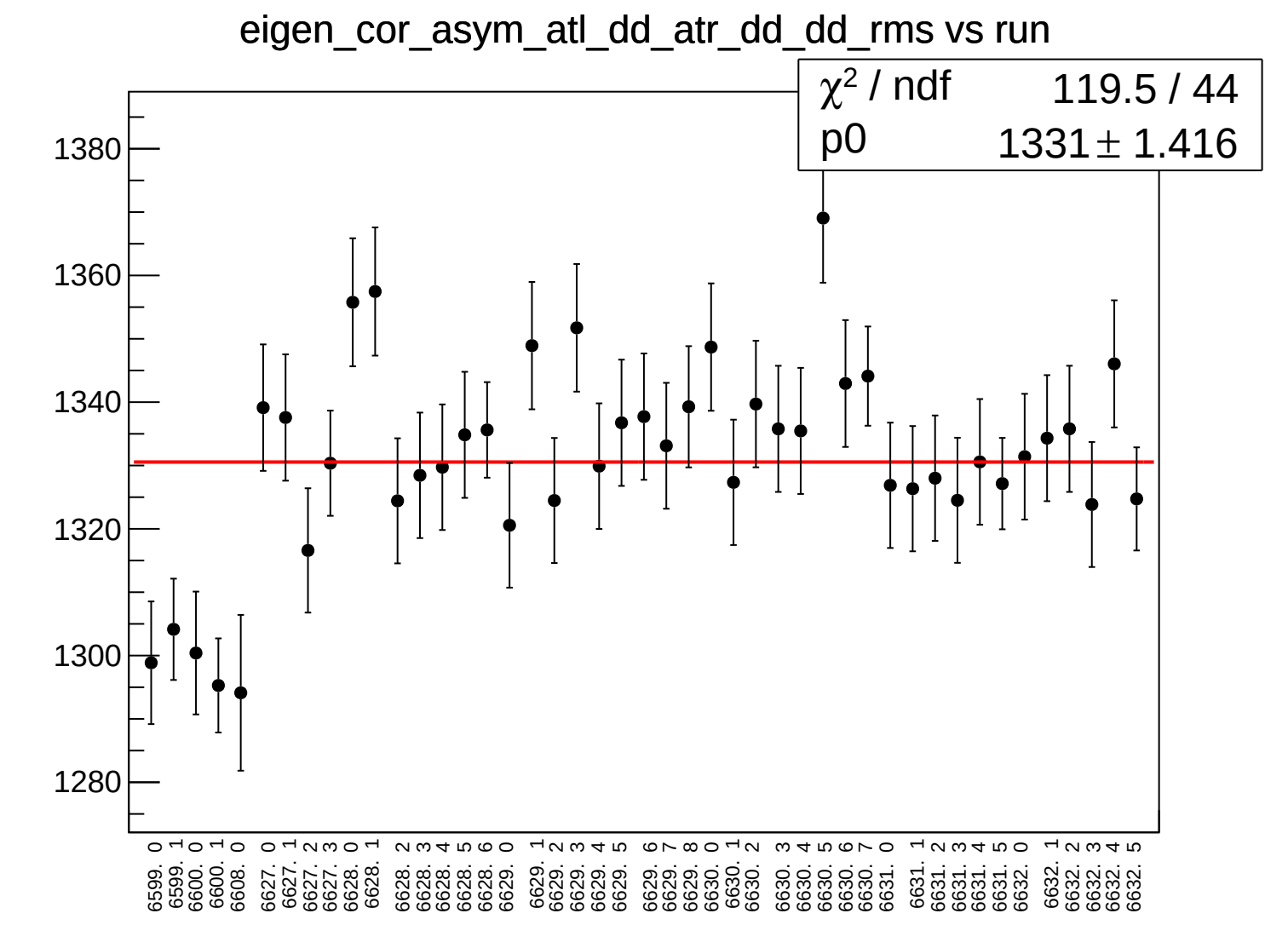

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 119.5 / 44
p0 1331 ± 1.416
1380
1360
1340
1320
1300
1280
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

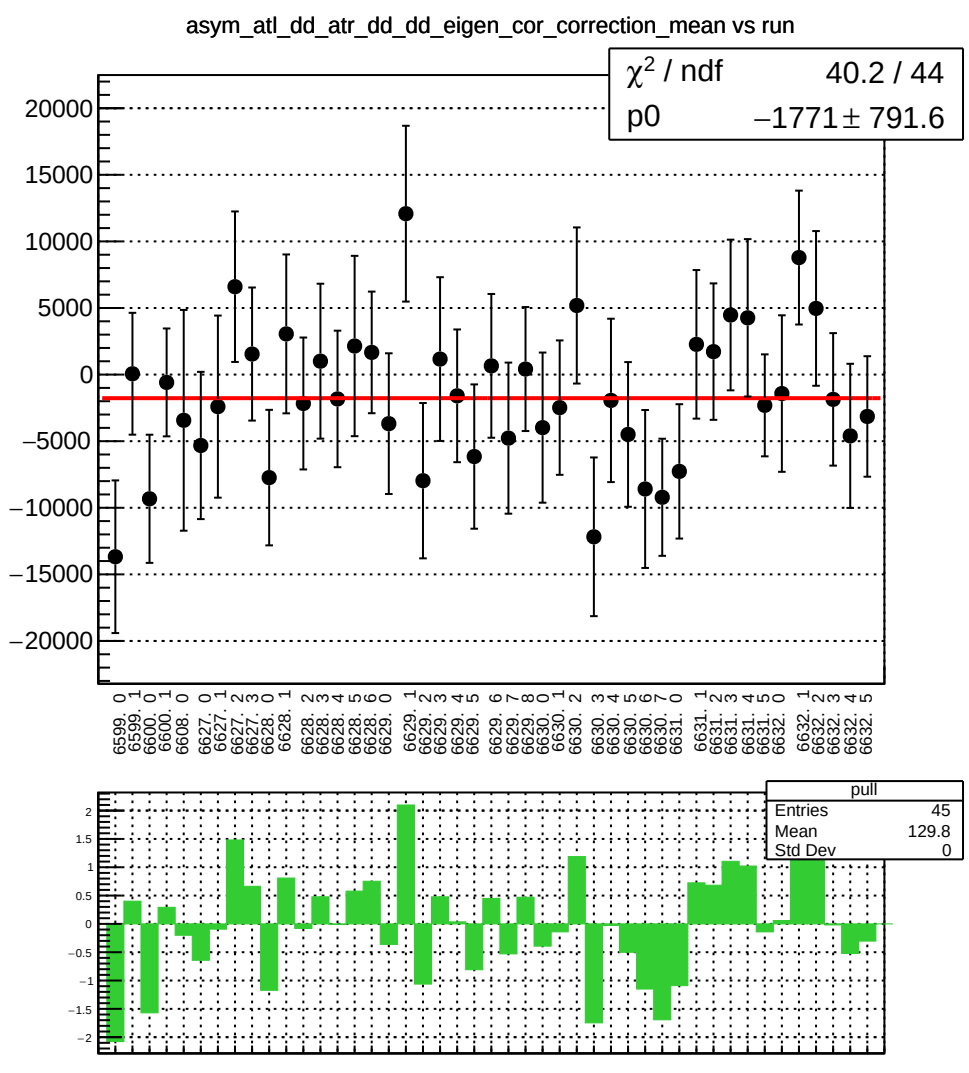

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 40.2 / 44
p0 −1771 ± 791.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 129.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01539
Std Dev 0.945
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

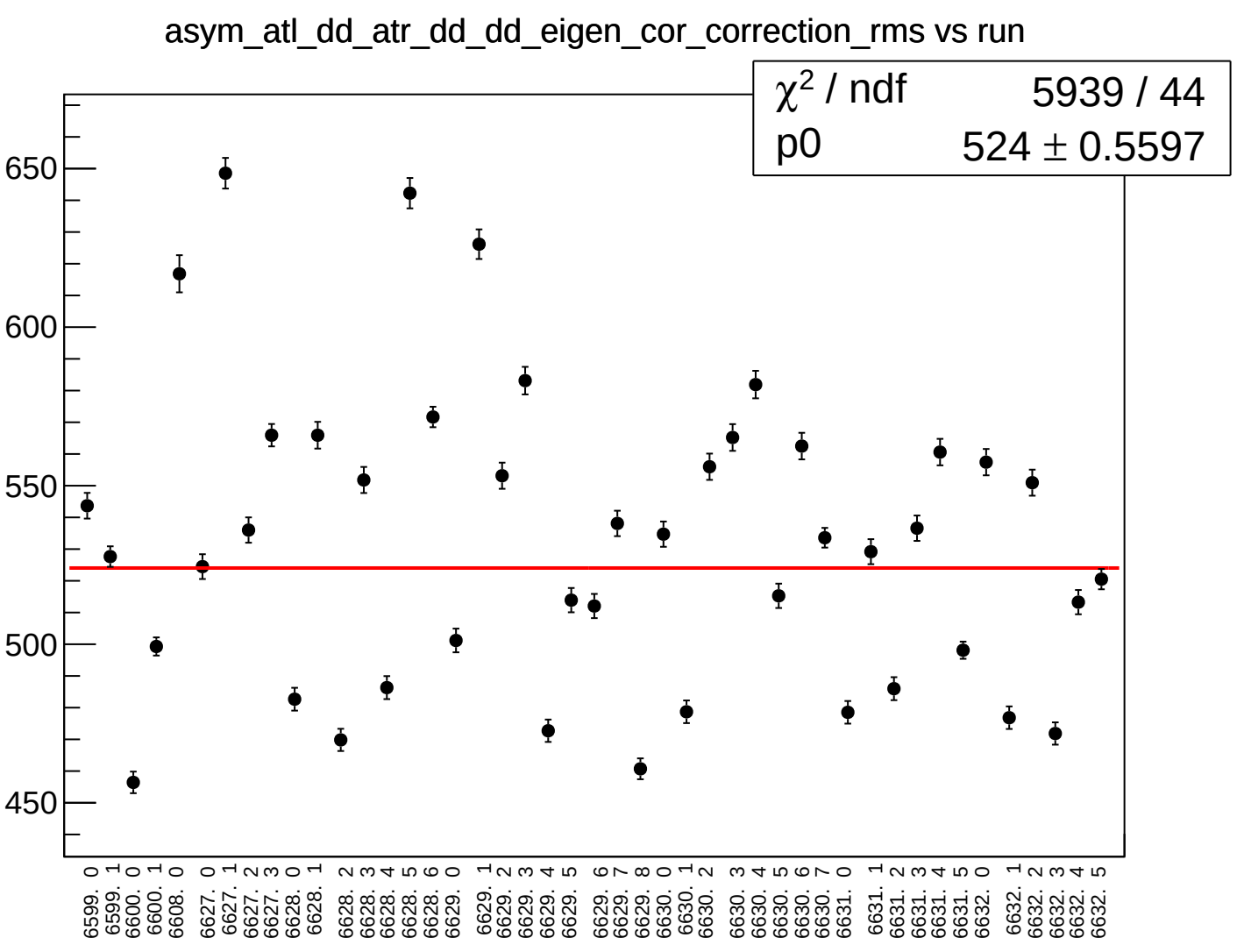

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 5939 / 44
p0 524 ± 0.5597
650
600
550
500
450
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 34.04 / 44
p0 −4077 ± 2003
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −3.465
Std Dev 21.38
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.0132
Std Dev 0.8696
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 119.5 / 44
p0 1331 ± 1.416
1380
1360
1340
1320
1300
1280
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 40.2 / 44
p0 −1771 ± 791.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 129.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01539
Std Dev 0.945
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 5939 / 44
p0 524 ± 0.5597
650
600
550
500
450
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 6
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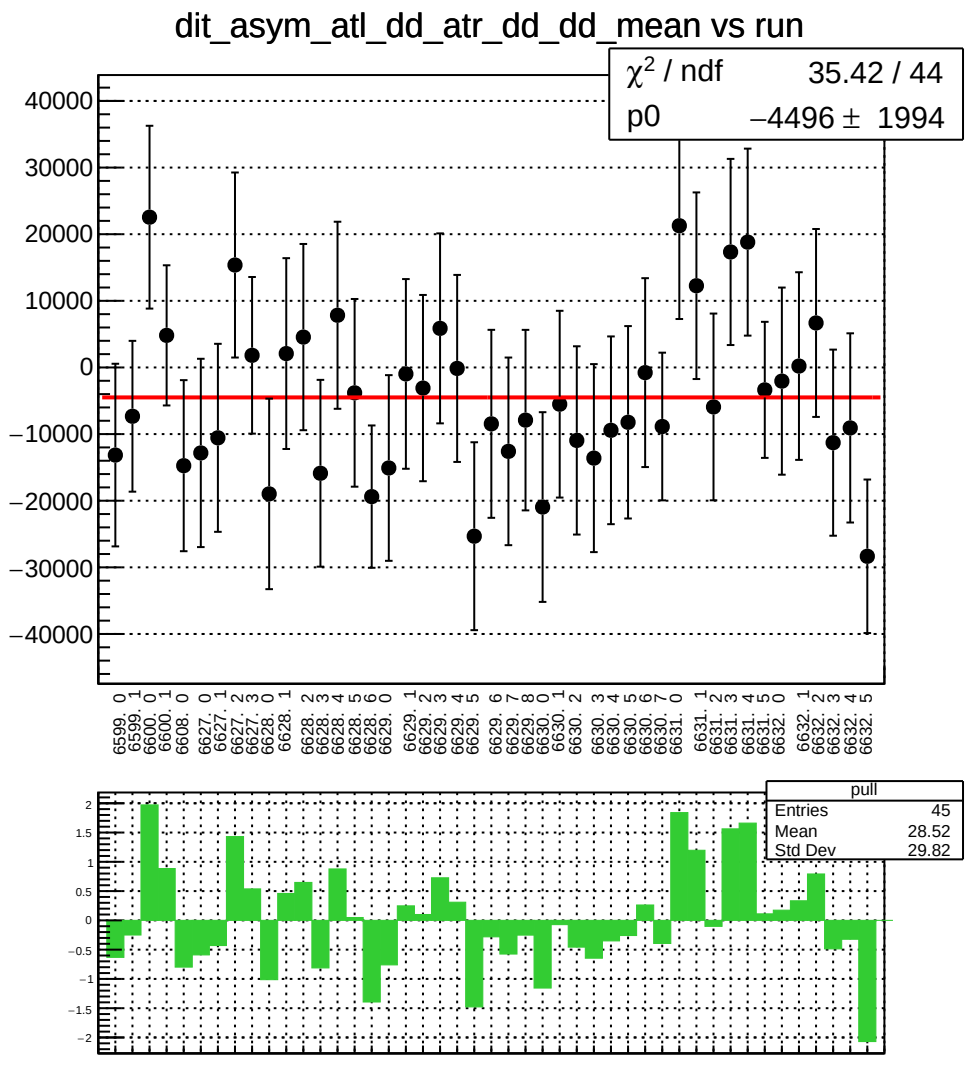
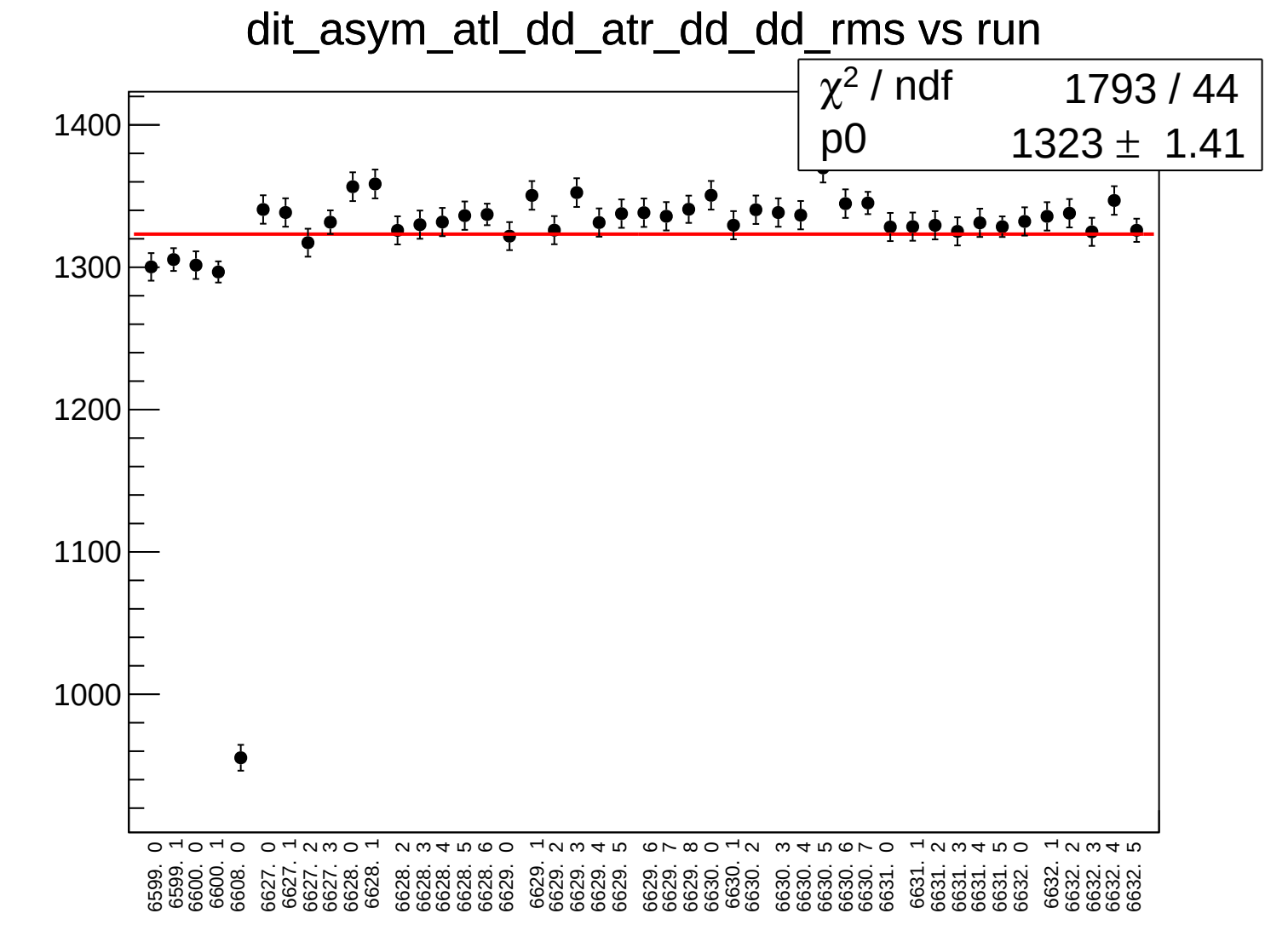
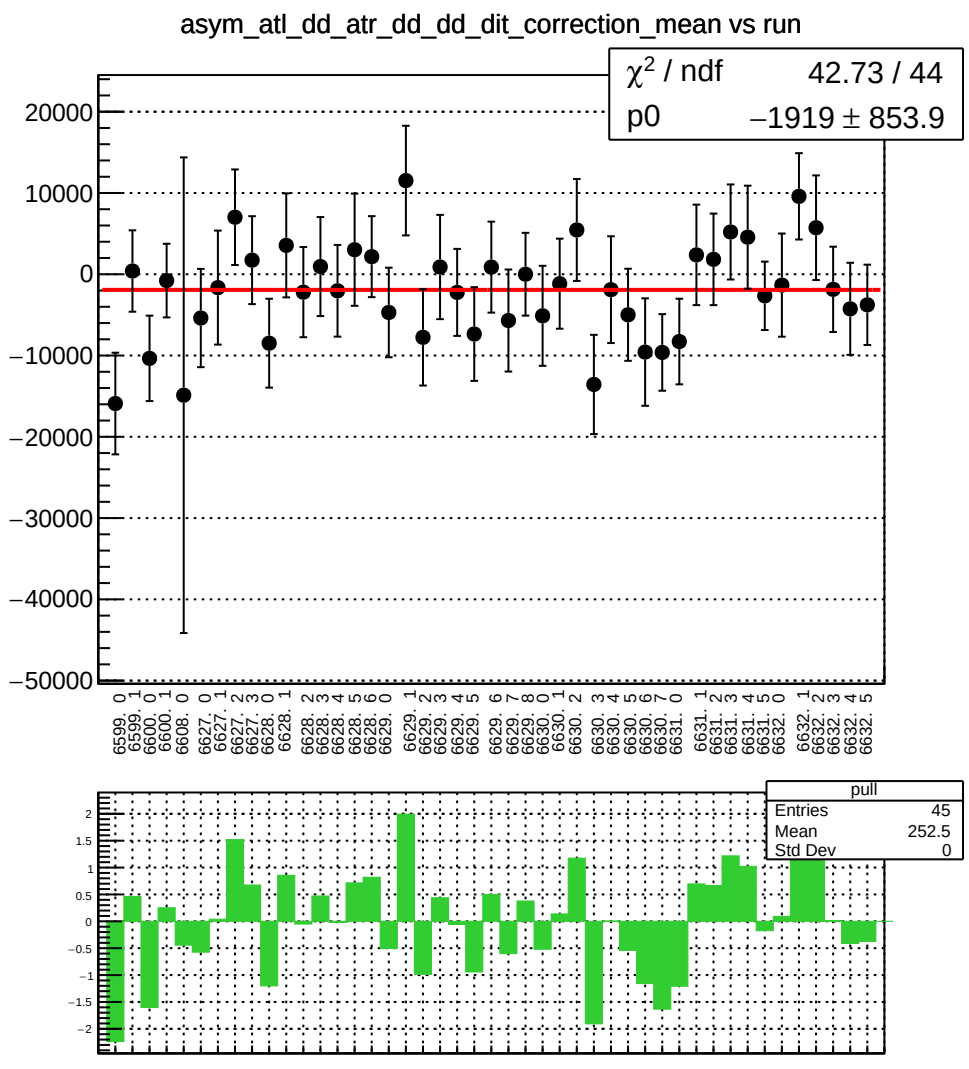
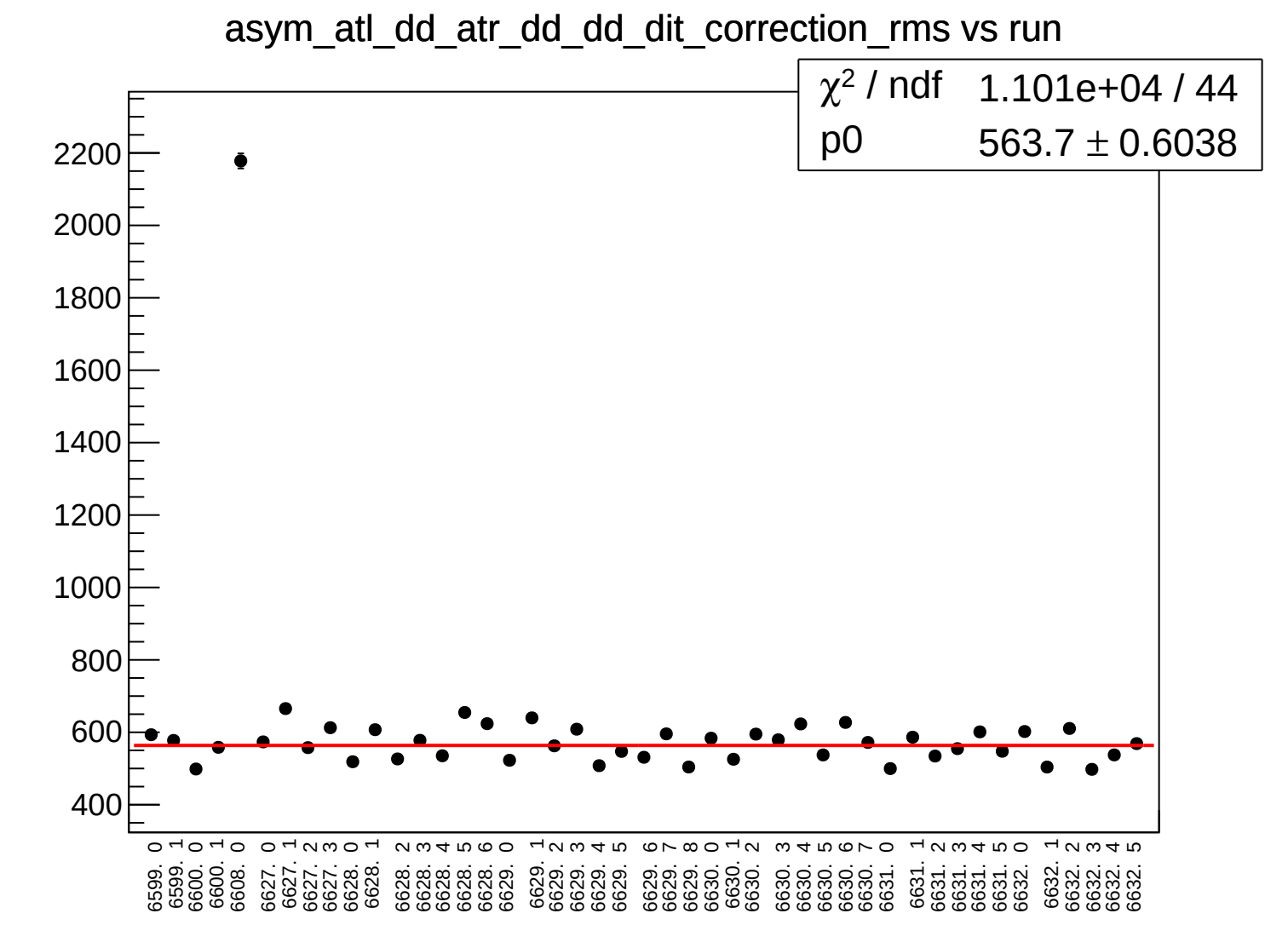
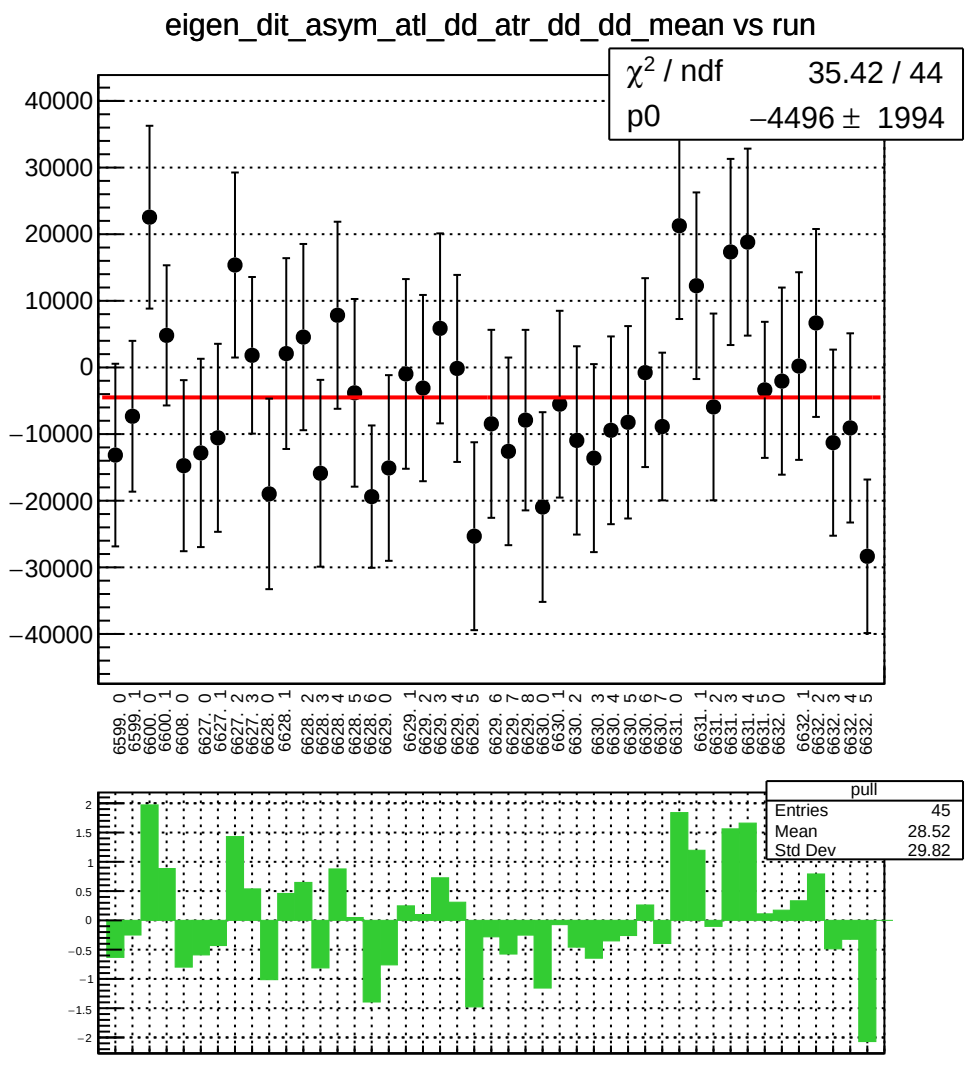
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

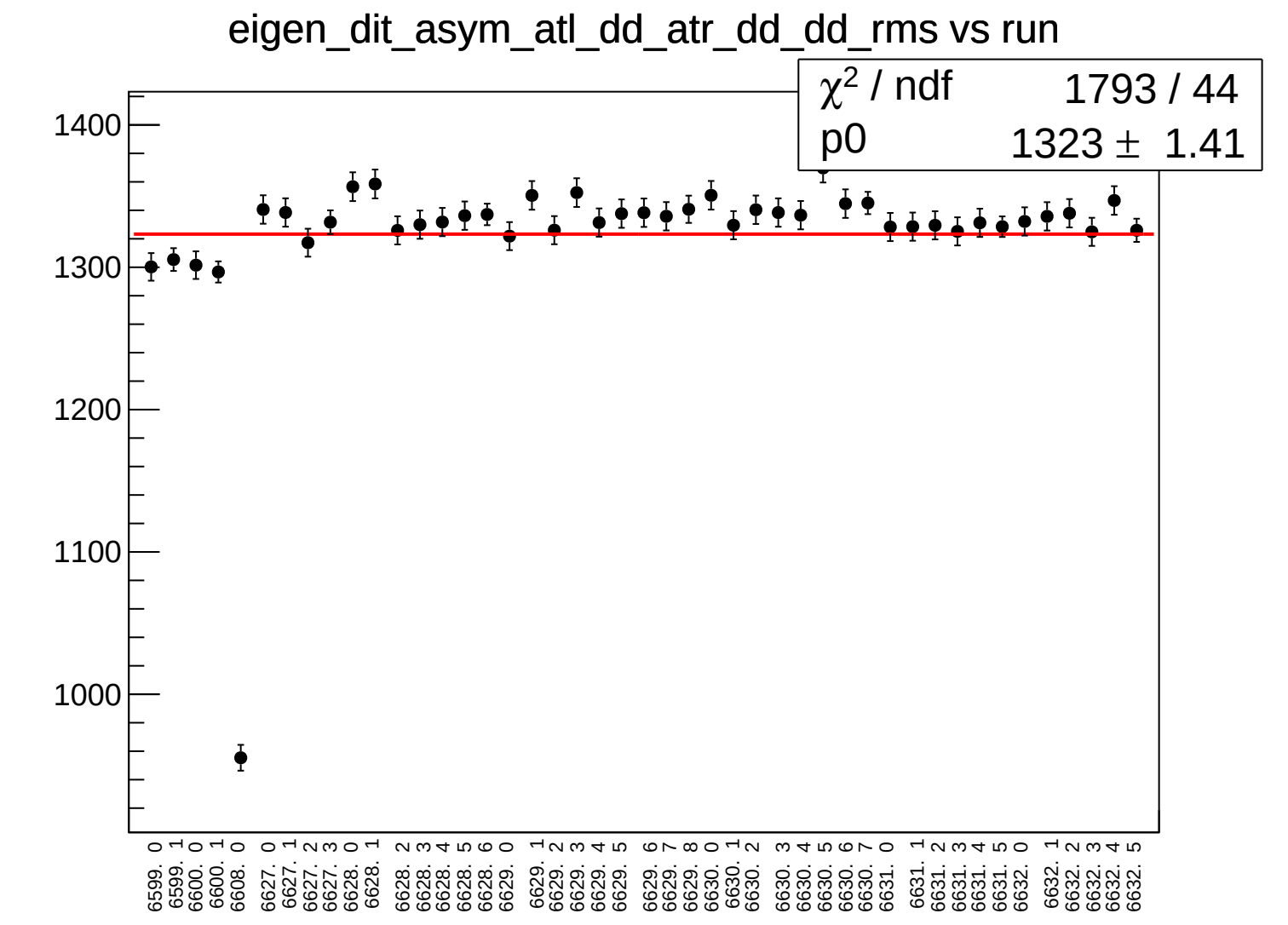

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 35.42 / 44
p0 −4496 ± 1994
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 28.52
Std Dev 29.82
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01341
Std Dev 0.8871
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

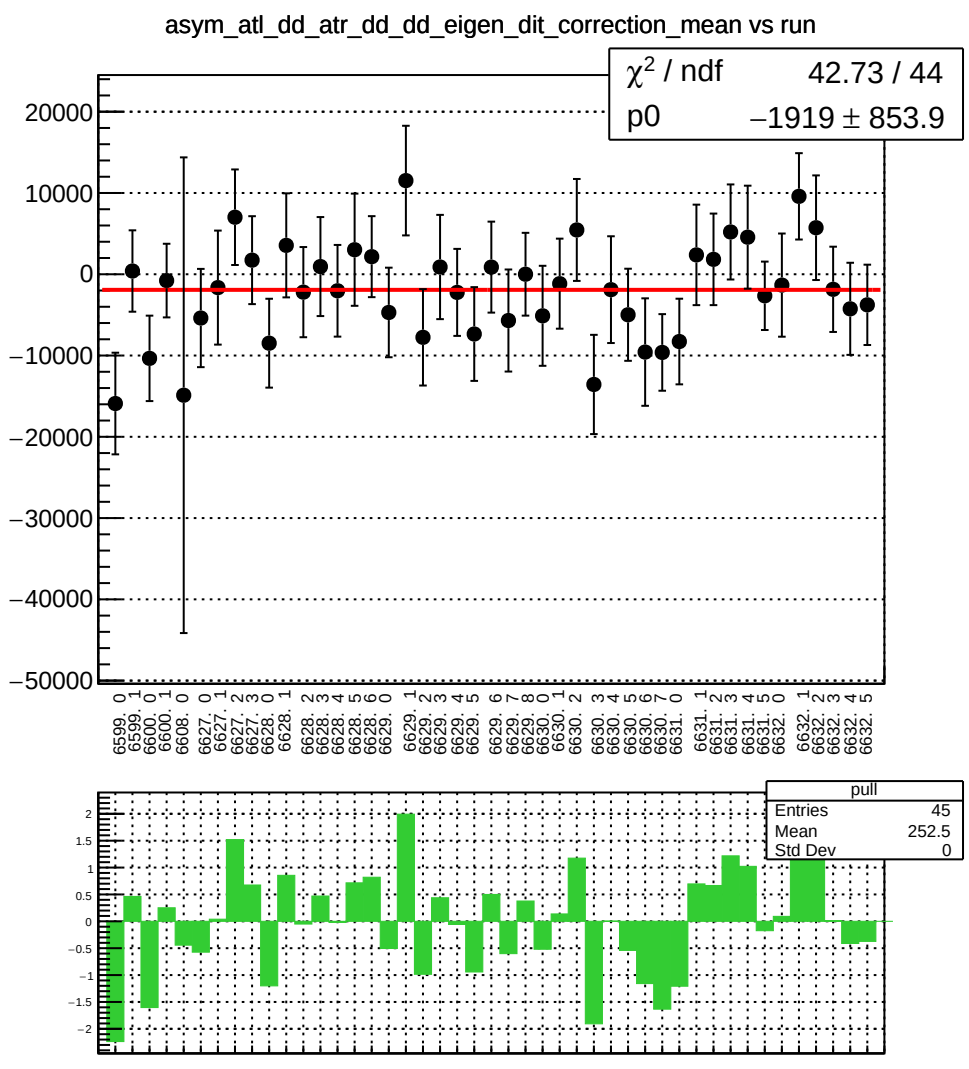

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1793 / 44
p0 1323 ± 1.41
1400
1300
1200
1100
1000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

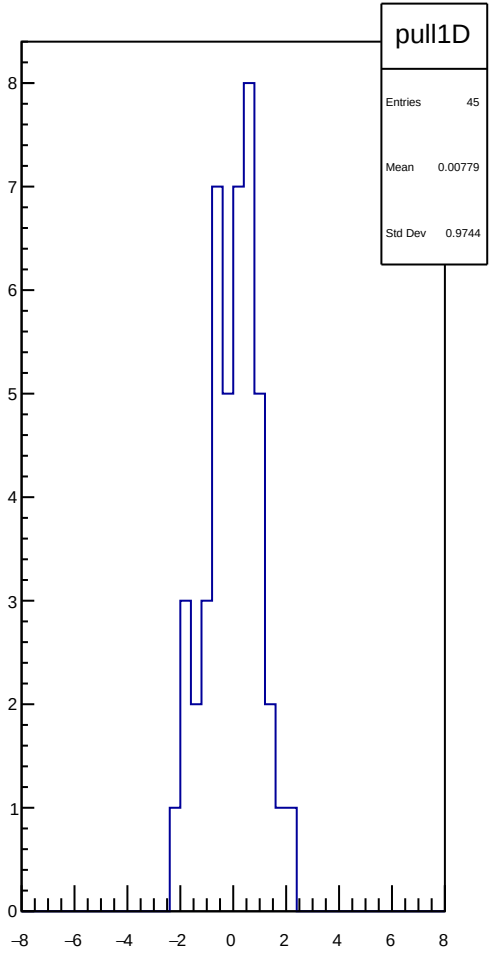

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 42.73 / 44
p0 −1919 ± 853.9
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 252.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.00779
Std Dev 0.9744
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

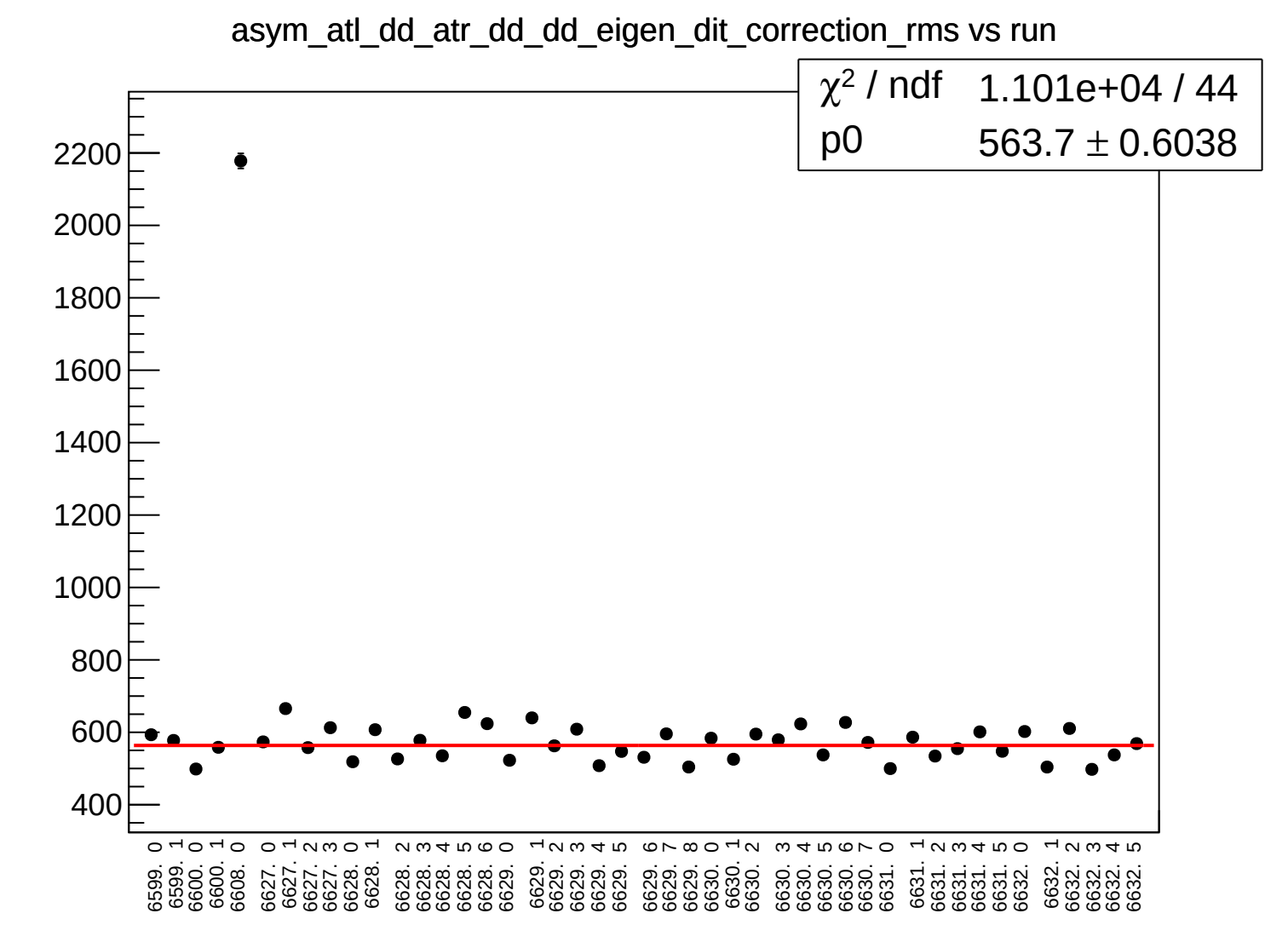

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.101e+04 / 44
p0 563.7 ± 0.6038
2200
2000
1800
1600
1400
1200
1000
800
600
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

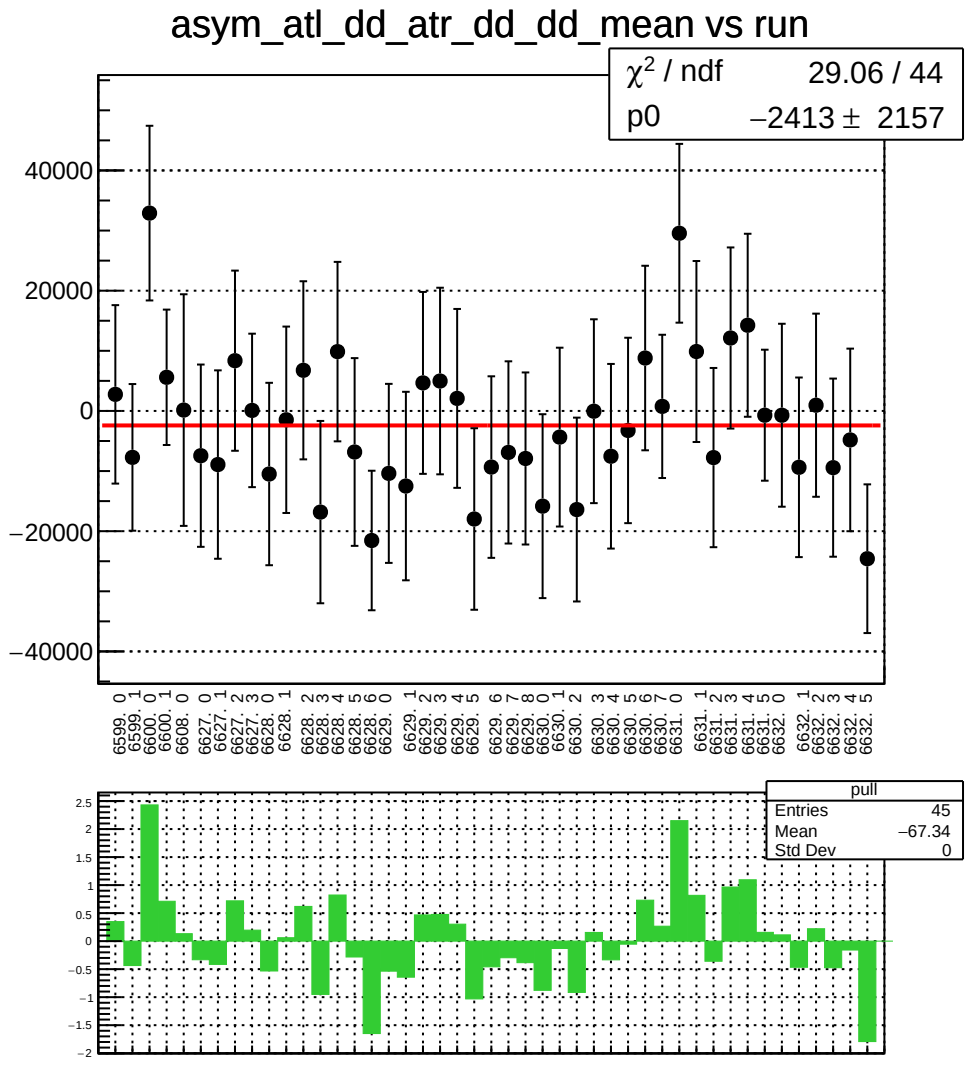

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 35.42 / 44
p0 −4496 ± 1994
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 28.52
Std Dev 29.82
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01341
Std Dev 0.8871
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

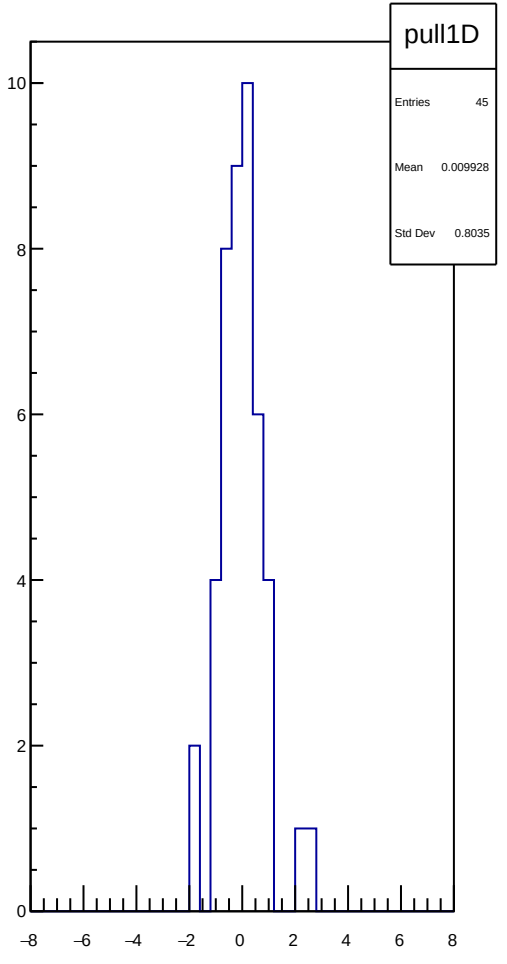

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1793 / 44
p0 1323 ± 1.41
1400
1300
1200
1100
1000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

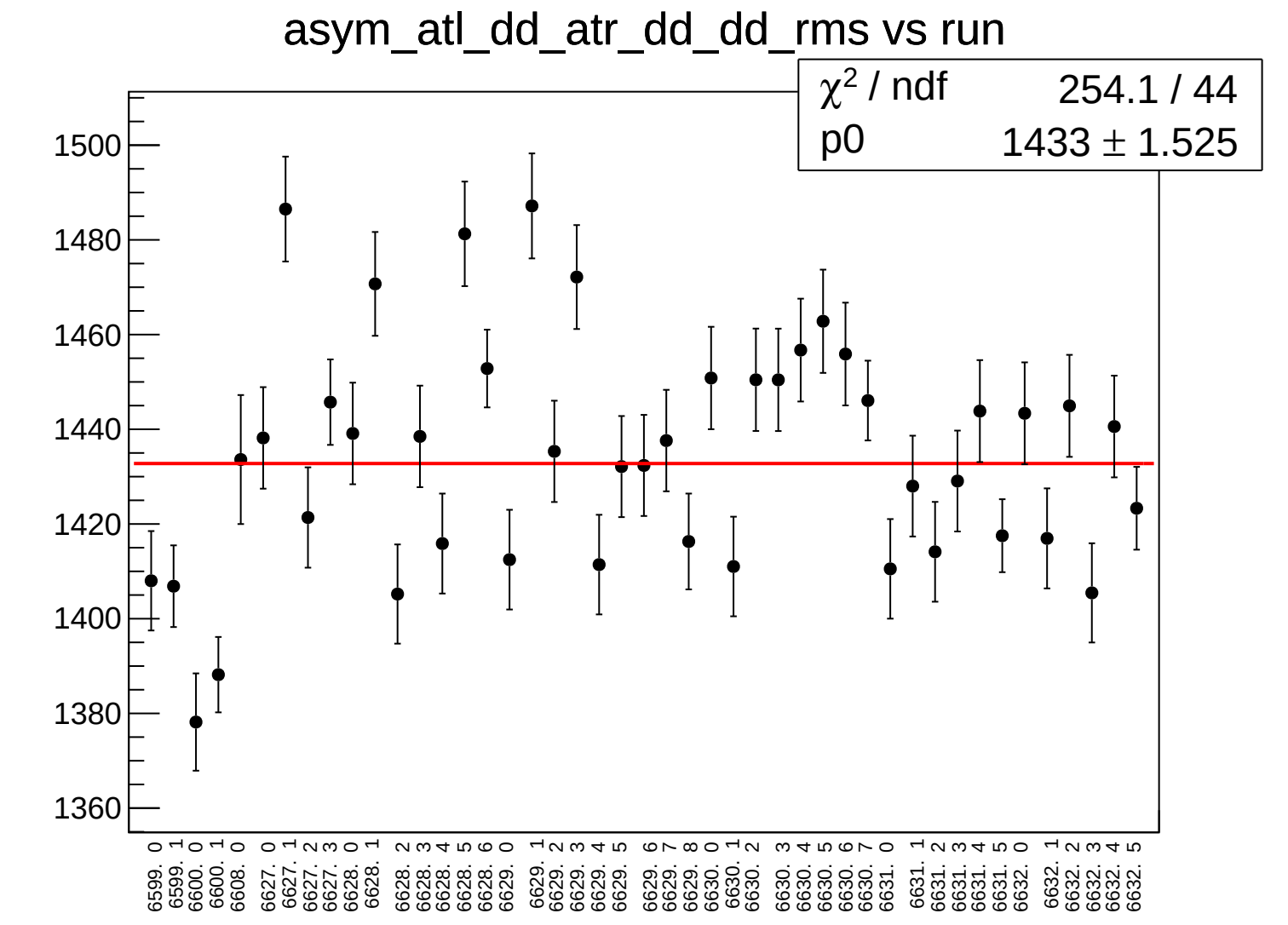

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 42.73 / 44
p0 −1919 ± 853.9
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 252.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

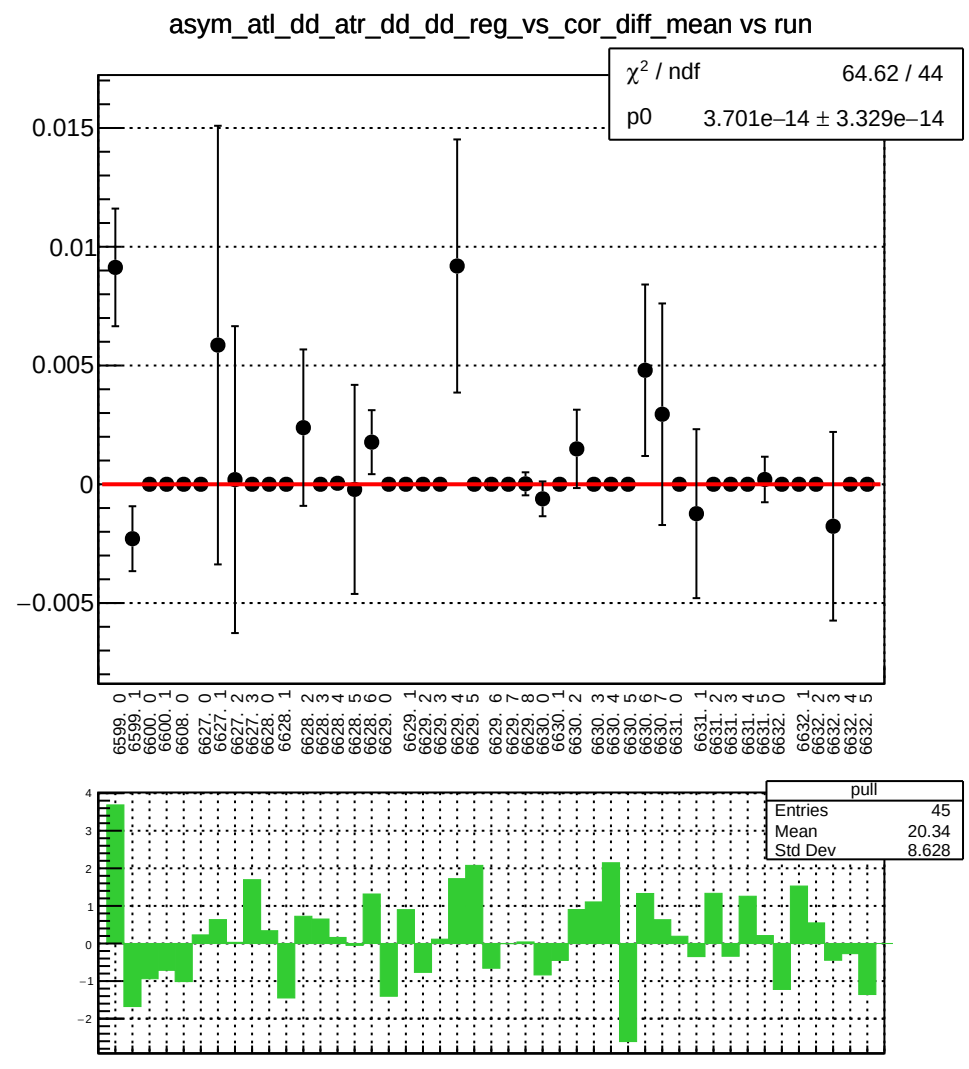

pull1D
Entries 45
Mean 0.00779
Std Dev 0.9744
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

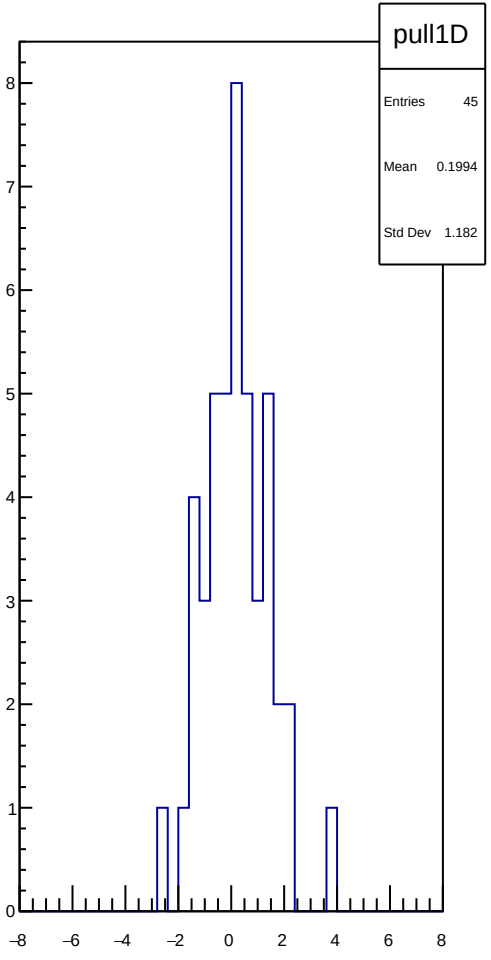

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.101e+04 / 44
p0 563.7 ± 0.6038
2200
2000
1800
1600
1400
1200
1000
800
600
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

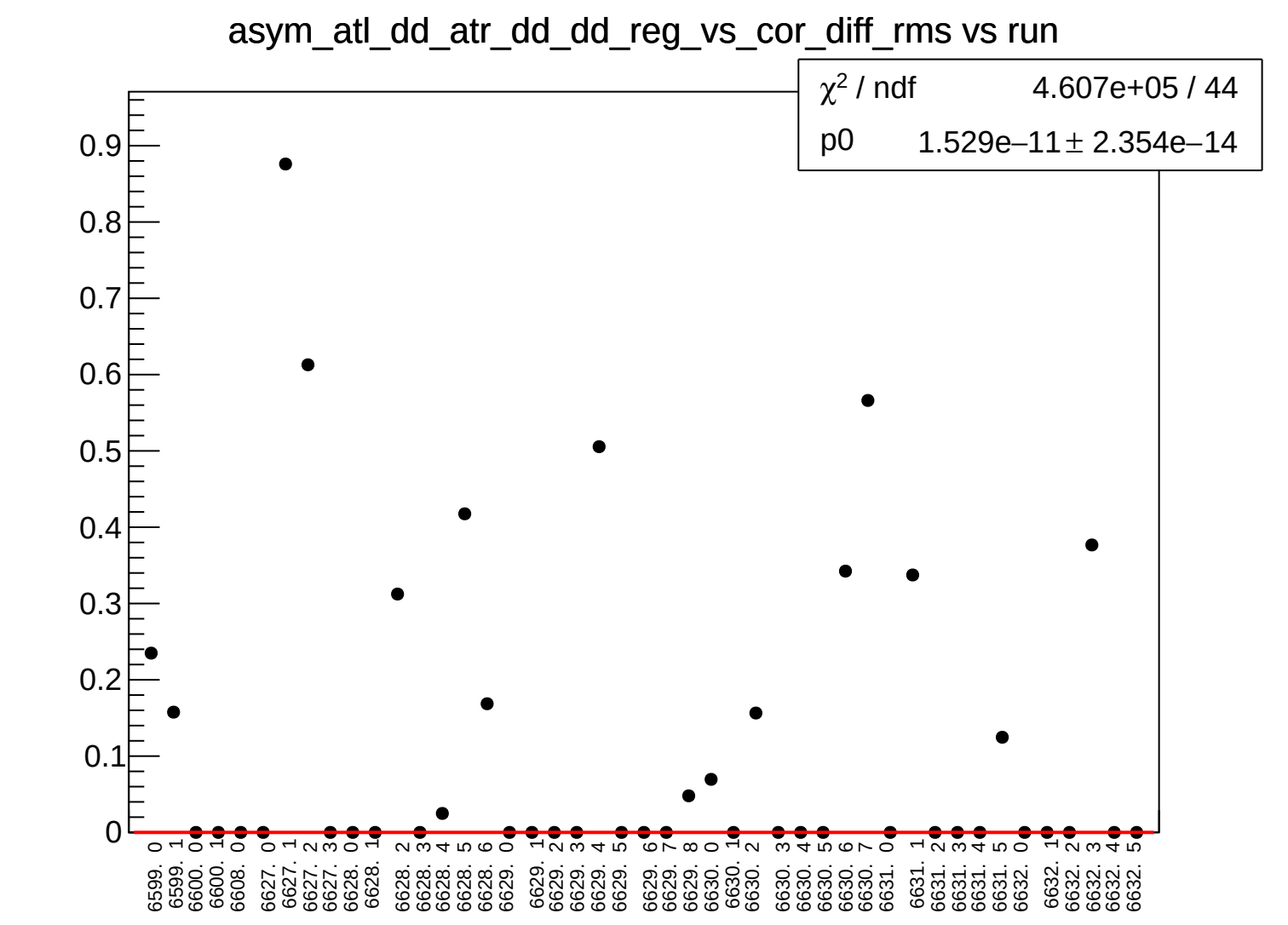

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 29.06 / 44
p0 −2413 ± 2157
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −67.34
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

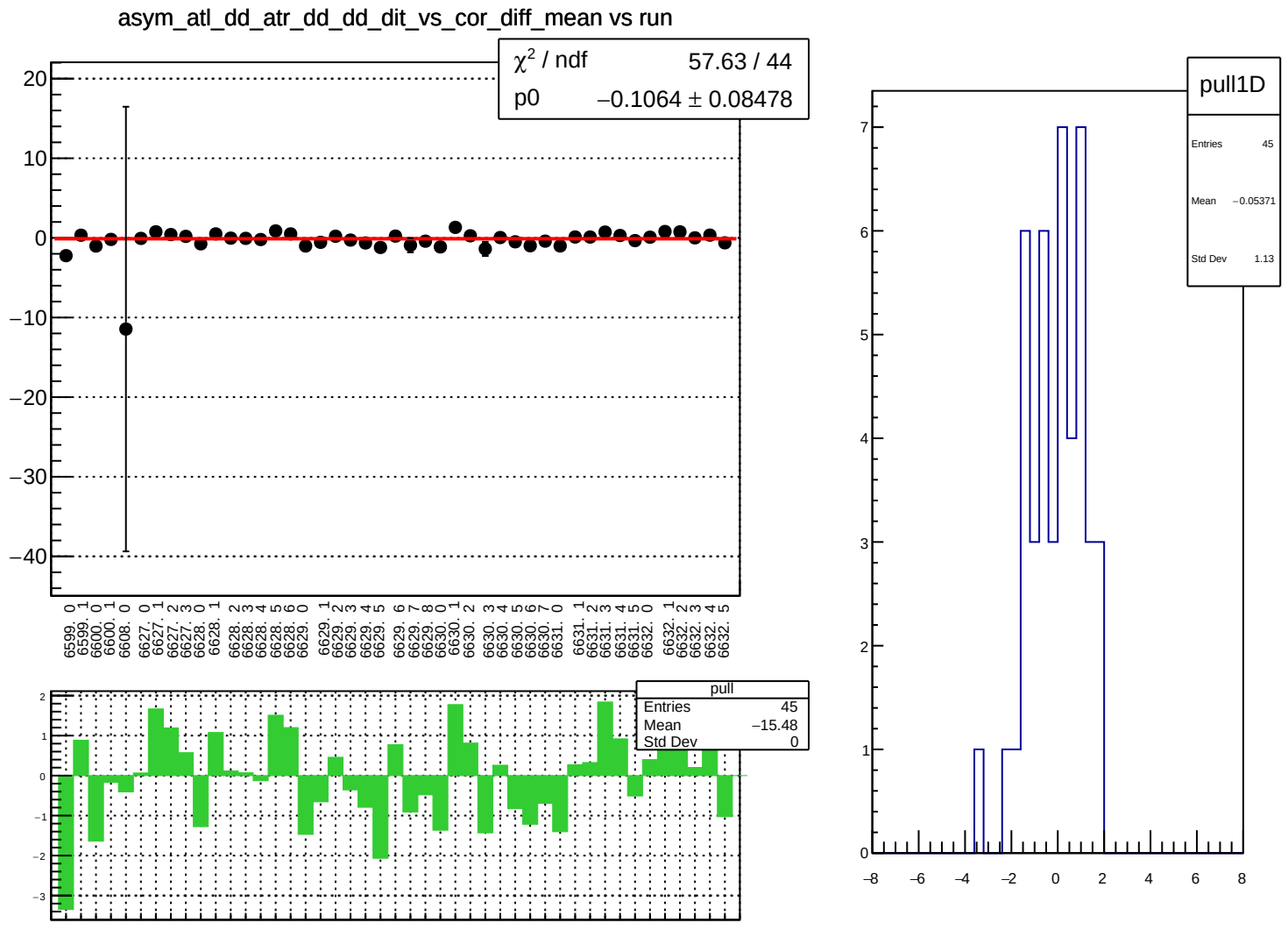

pull1D
Entries 45
Mean 0.009928
Std Dev 0.8035
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

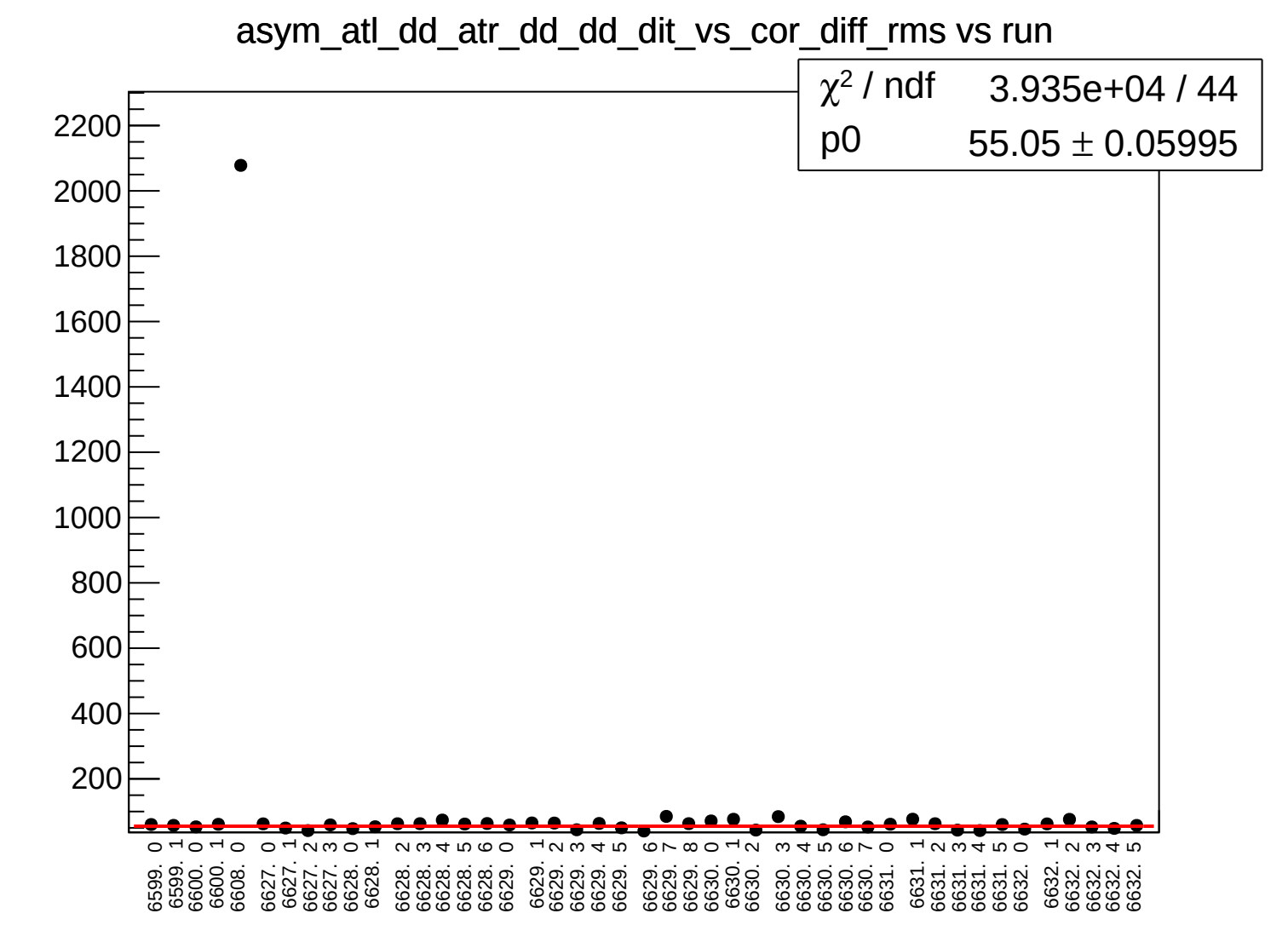

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 254.1 / 44
p0 1433 ± 1.525
1500
1480
1460
1440
1420
1400
1380
1360
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

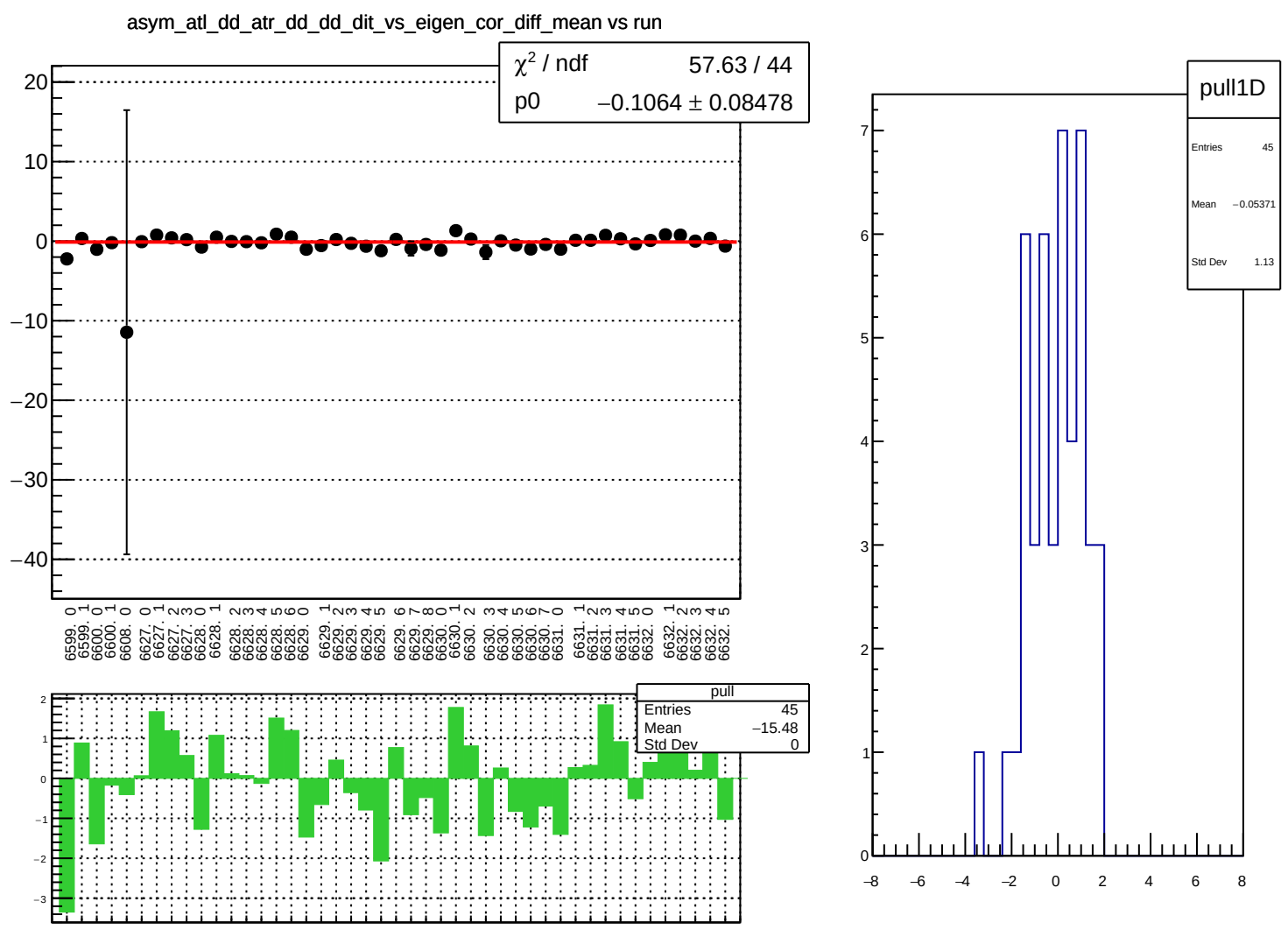

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 64.62 / 44
p0 3.701e−14 ± 3.329e−14
0.015
0.01
0.005
0
−0.005
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 20.34
Std Dev 8.628
4
3
2
1
0
−1
−2

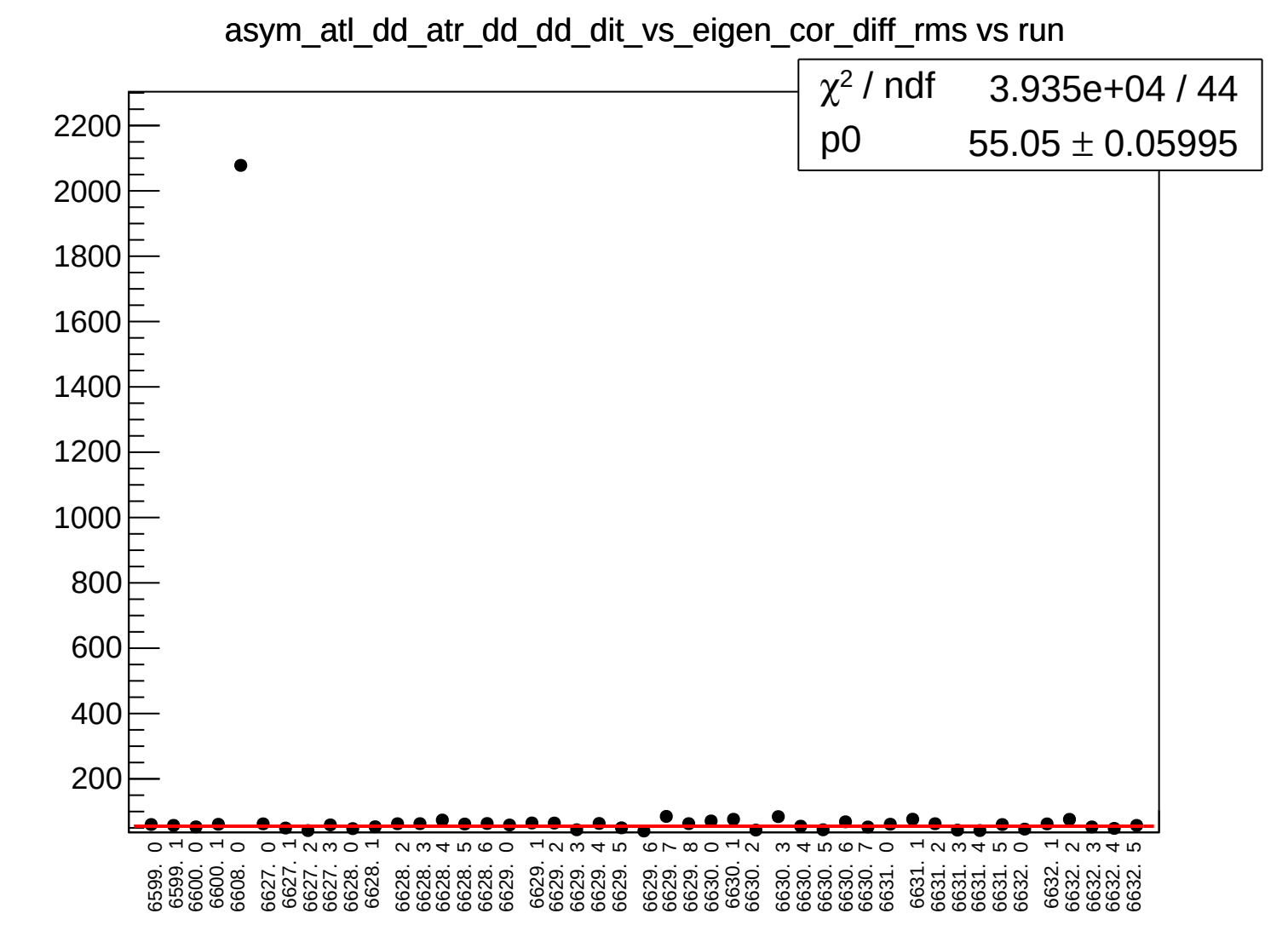

pull1D
Entries 45
Mean 0.1994
Std Dev 1.182
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

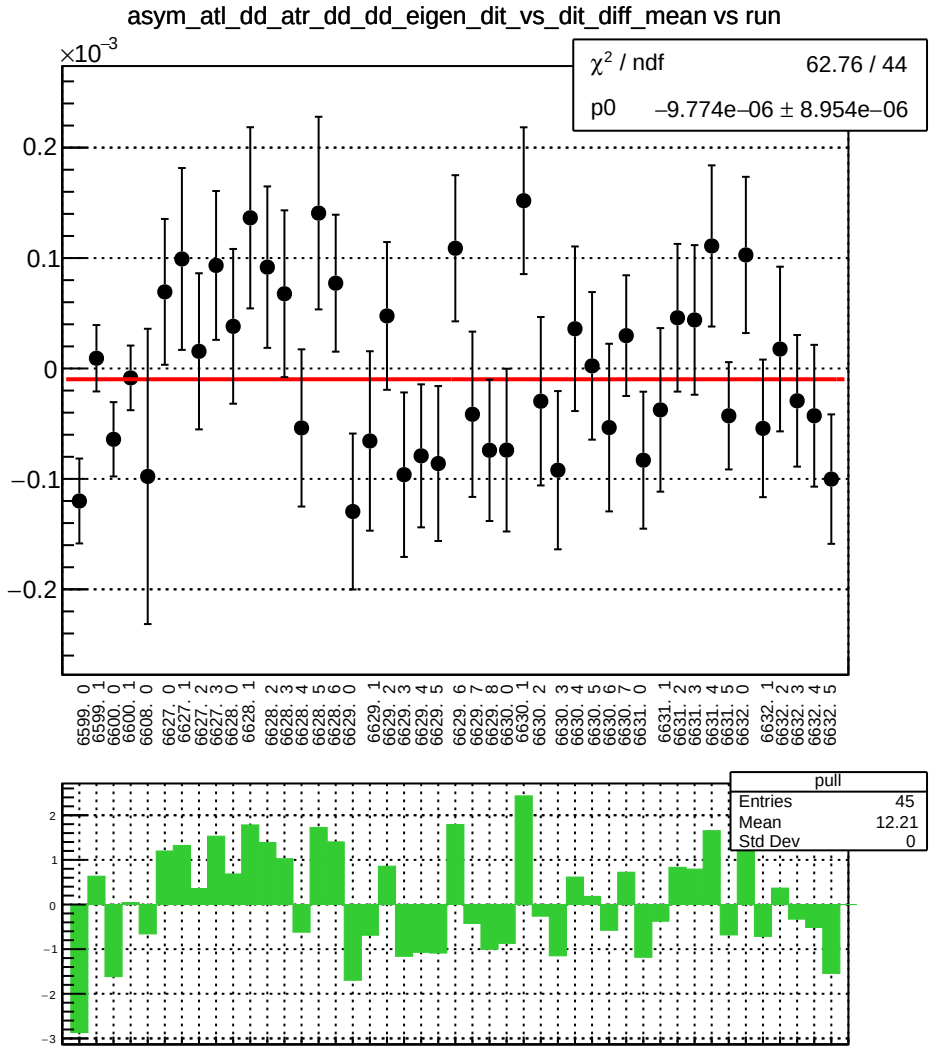

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.607e+05 / 44
p0 1.529e−11 ± 2.354e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

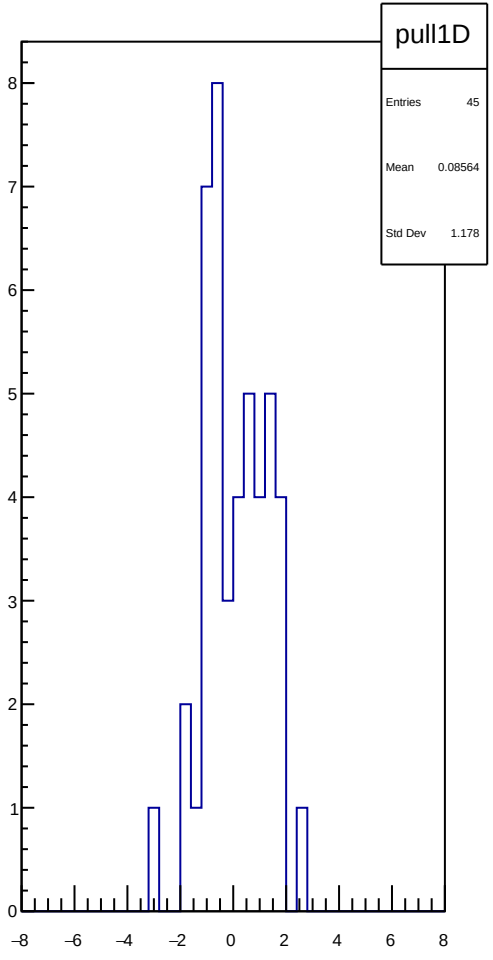

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 57.63 / 44
p0 −0.1064 ± 0.08478
pull
Entries 45
Mean −15.48
Std Dev 0
pull1D
Entries 45
Mean −0.05371
Std Dev 1.13


asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.935e+04 / 44
p0 55.05 ± 0.05995
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.63 / 44
p0 −0.1064 ± 0.08478
20
10
0
−10
−20
−30
−40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −15.48
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.05371
Std Dev 1.13
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 3.935e+04 / 44
p0 55.05 ± 0.05995
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 62.76 / 44
p0 −9.774e−06 ± 8.954e−06
0.2
0.1
0
−0.1
−0.2
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 12.21
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.08564
Std Dev 1.178
8
7
6
5
4
3
2
1
0
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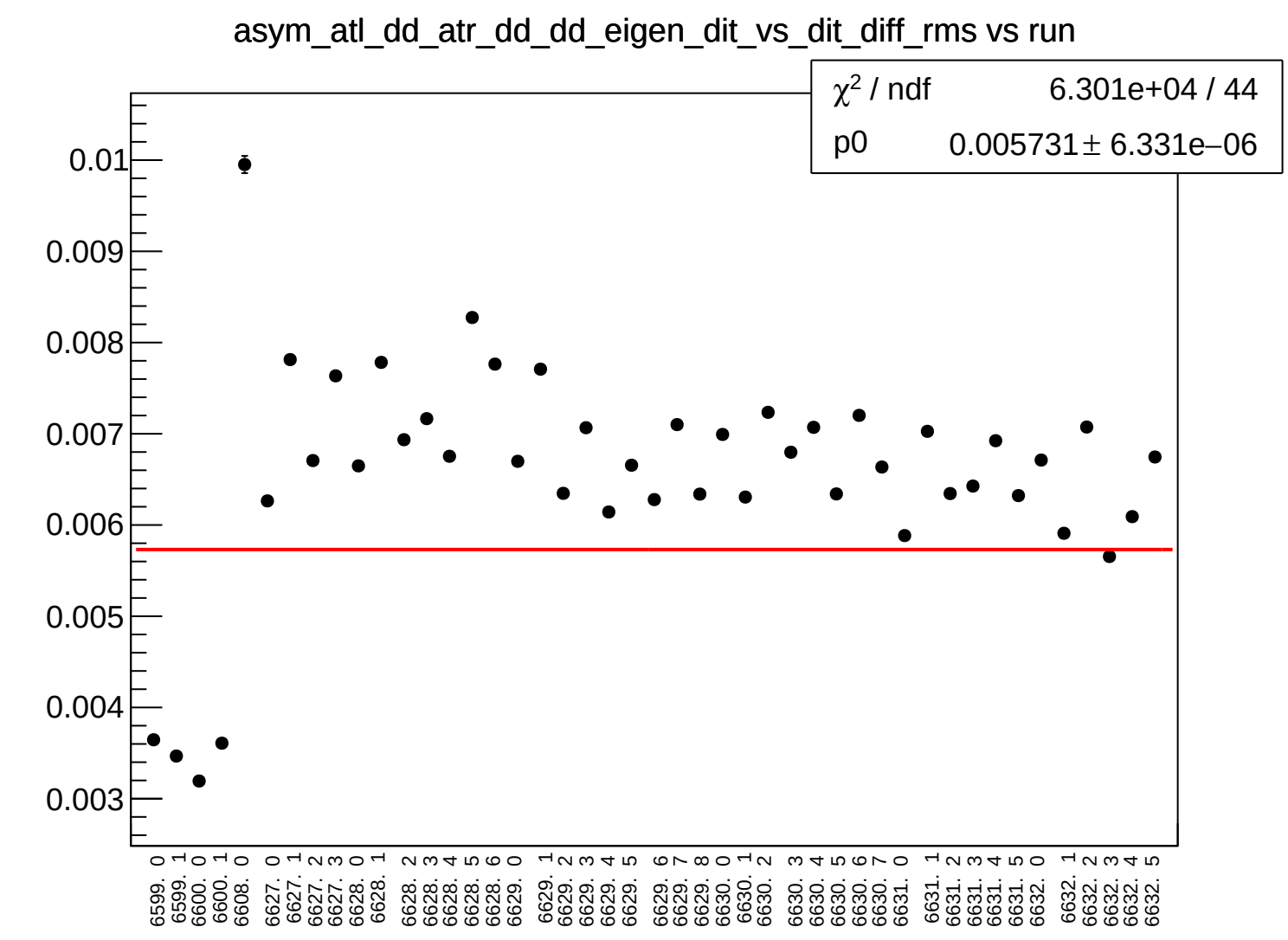
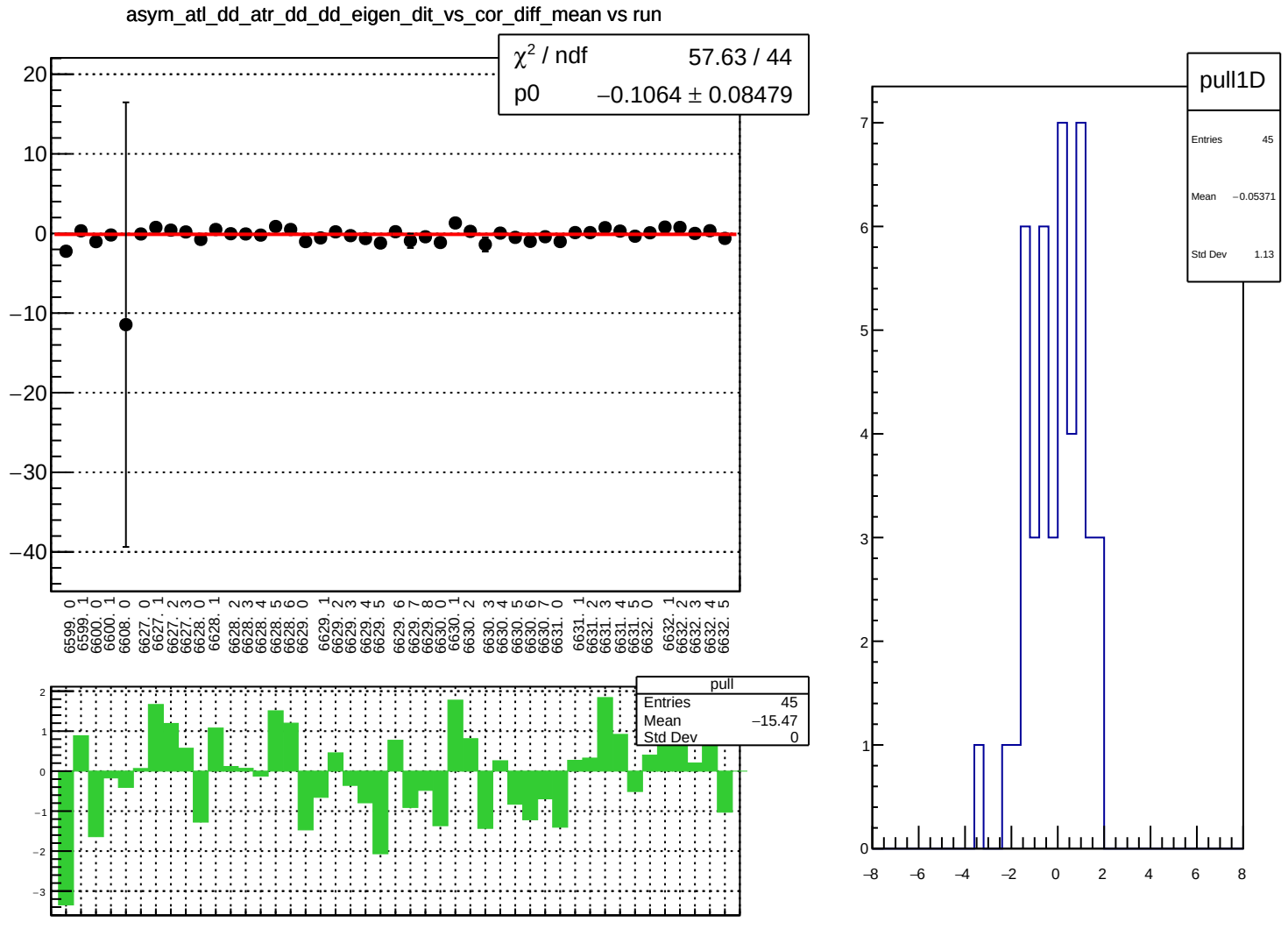
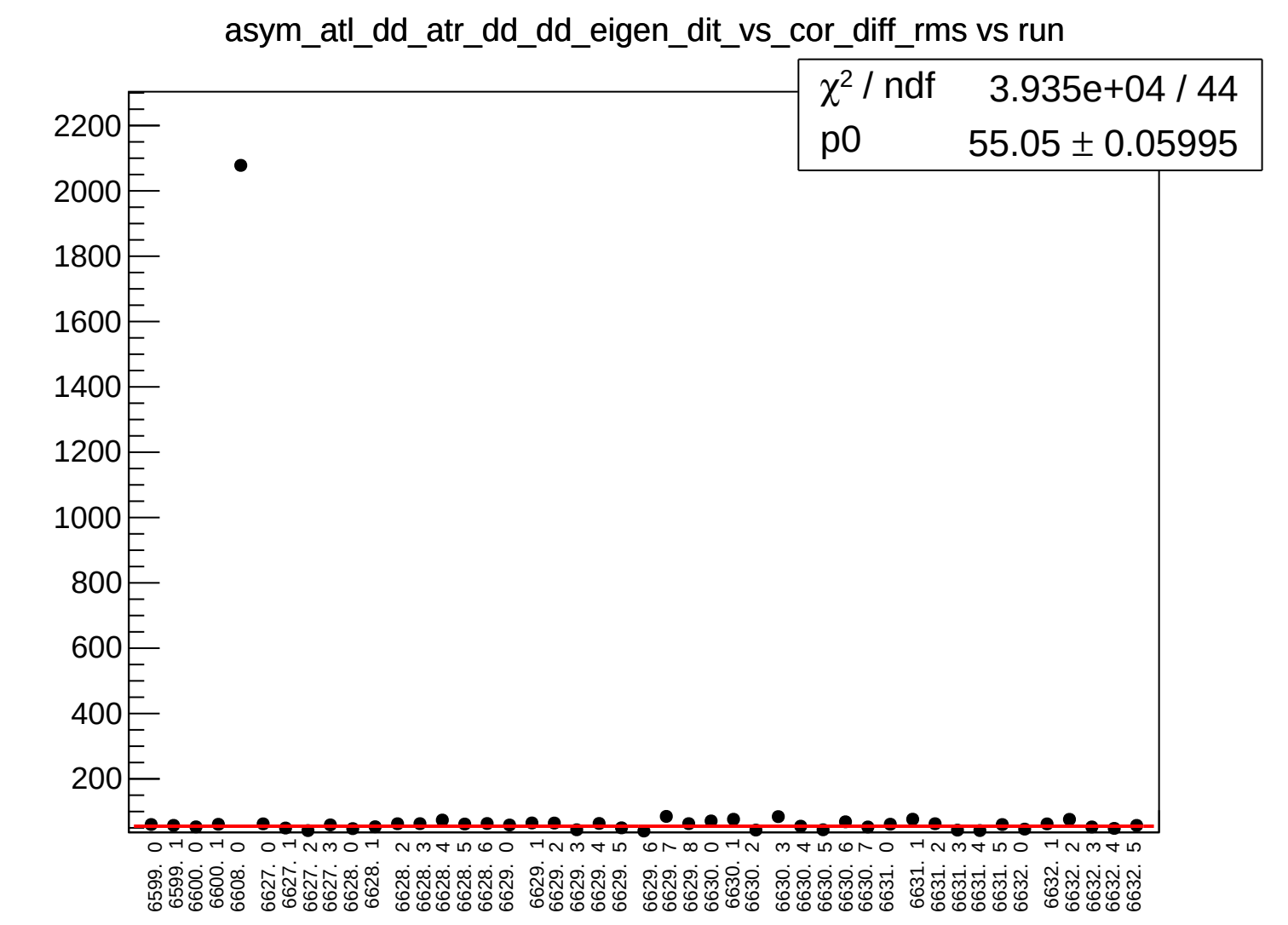
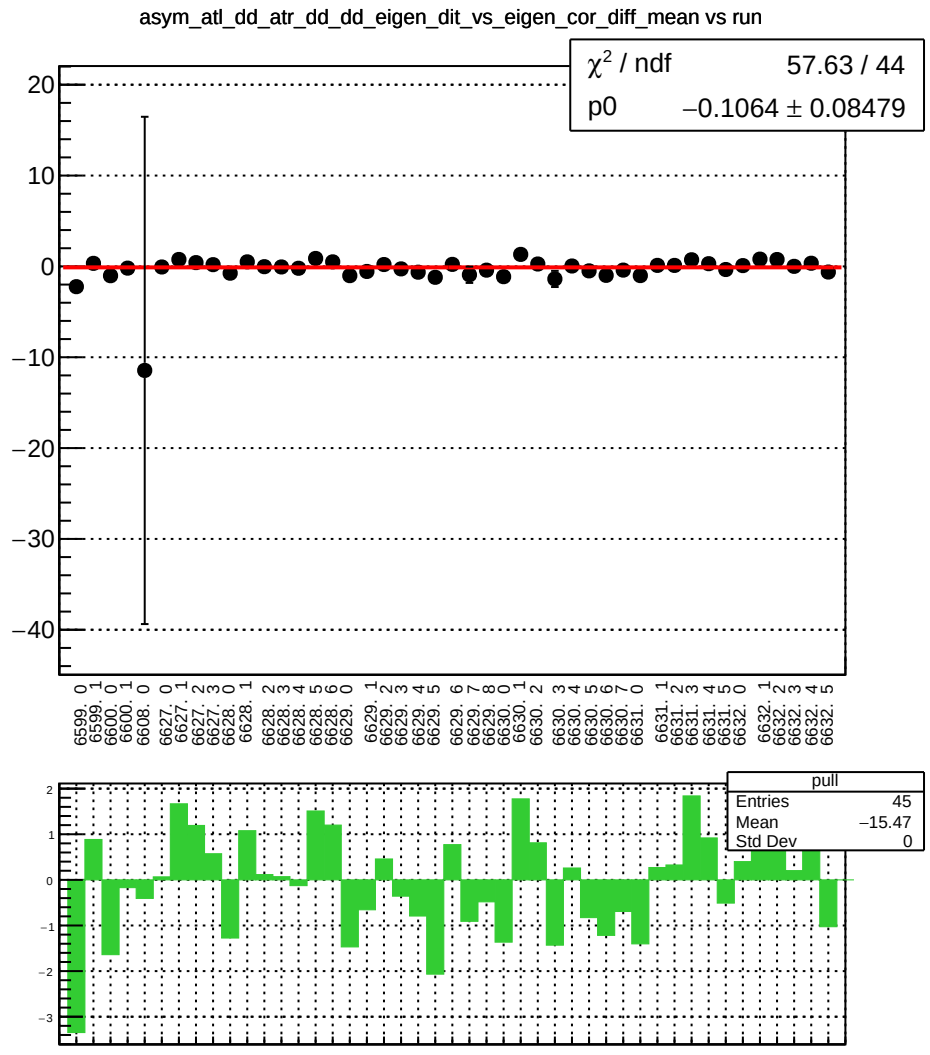
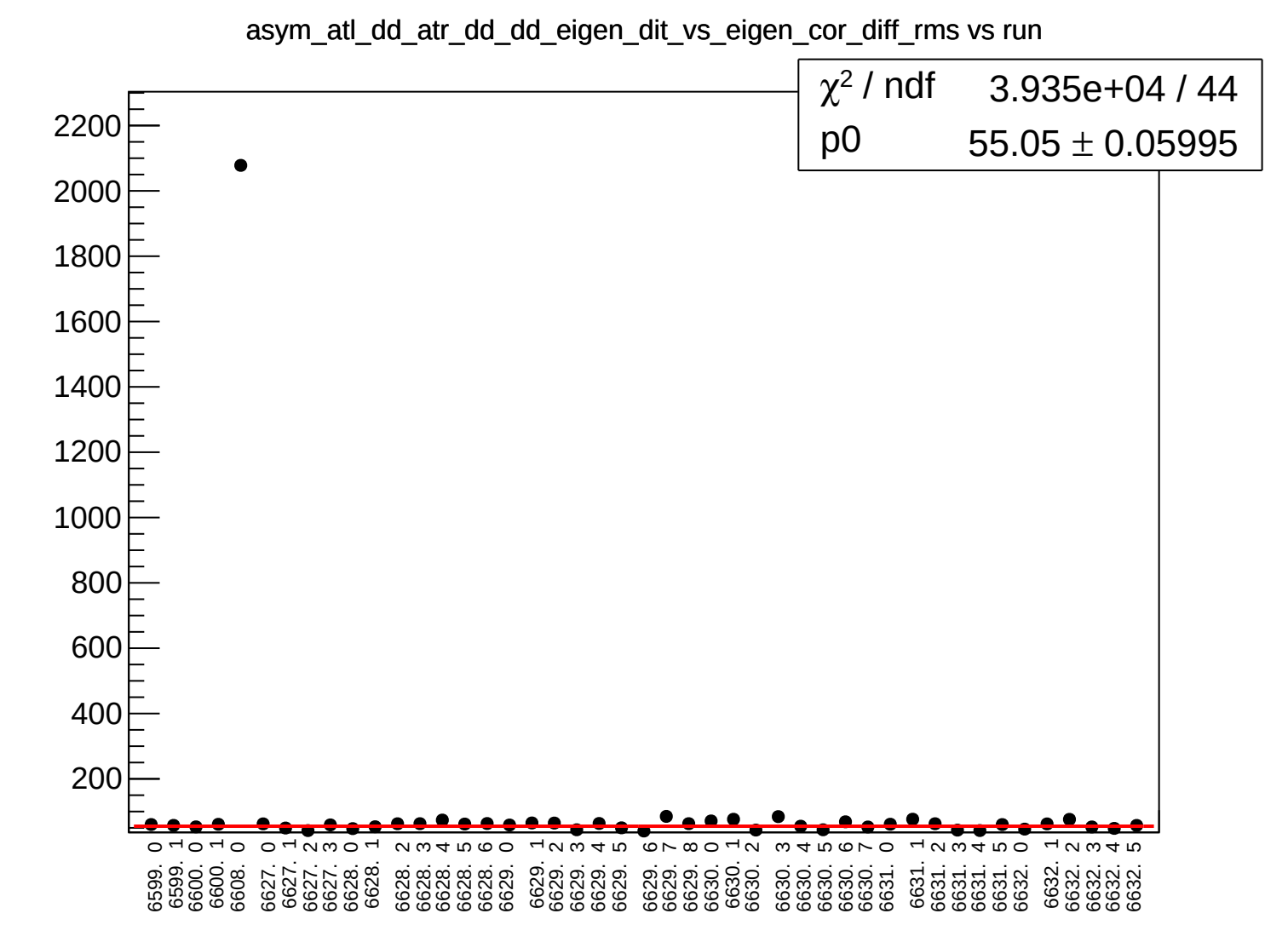
−6
−4
−2
0
2
4
6
8

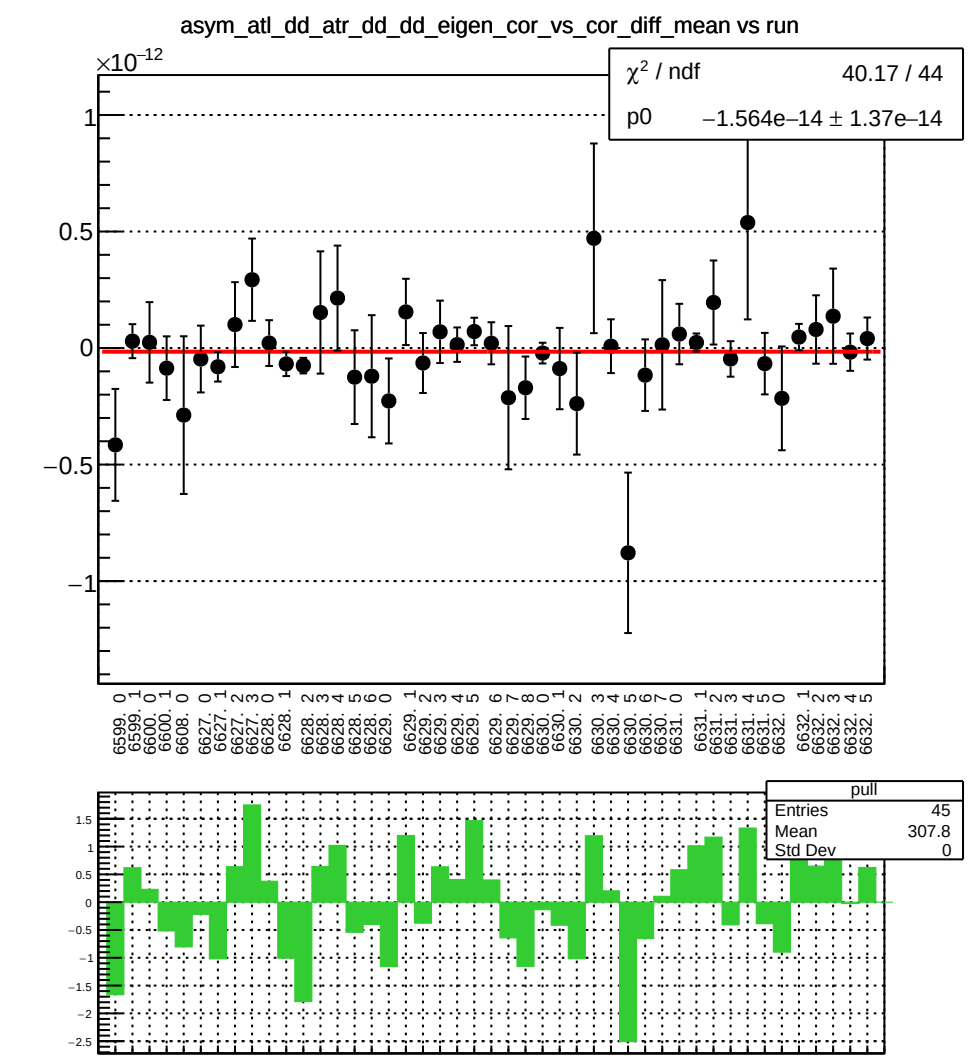

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.301e+04 / 44
p0 0.005731 ± 6.331e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

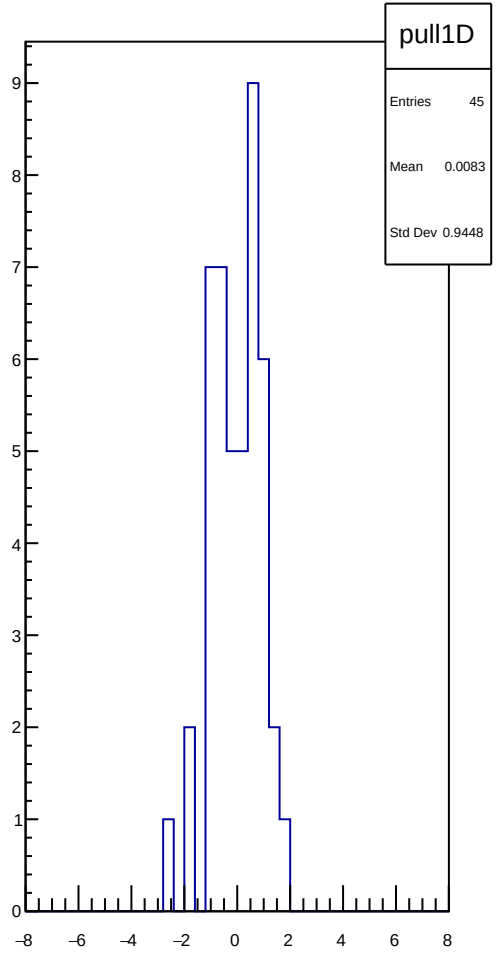

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 57.63 / 44
p0 −0.1064 ± 0.08479
20
10
0
−10
−20
−30
−40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −15.47
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.05371
Std Dev 1.13
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

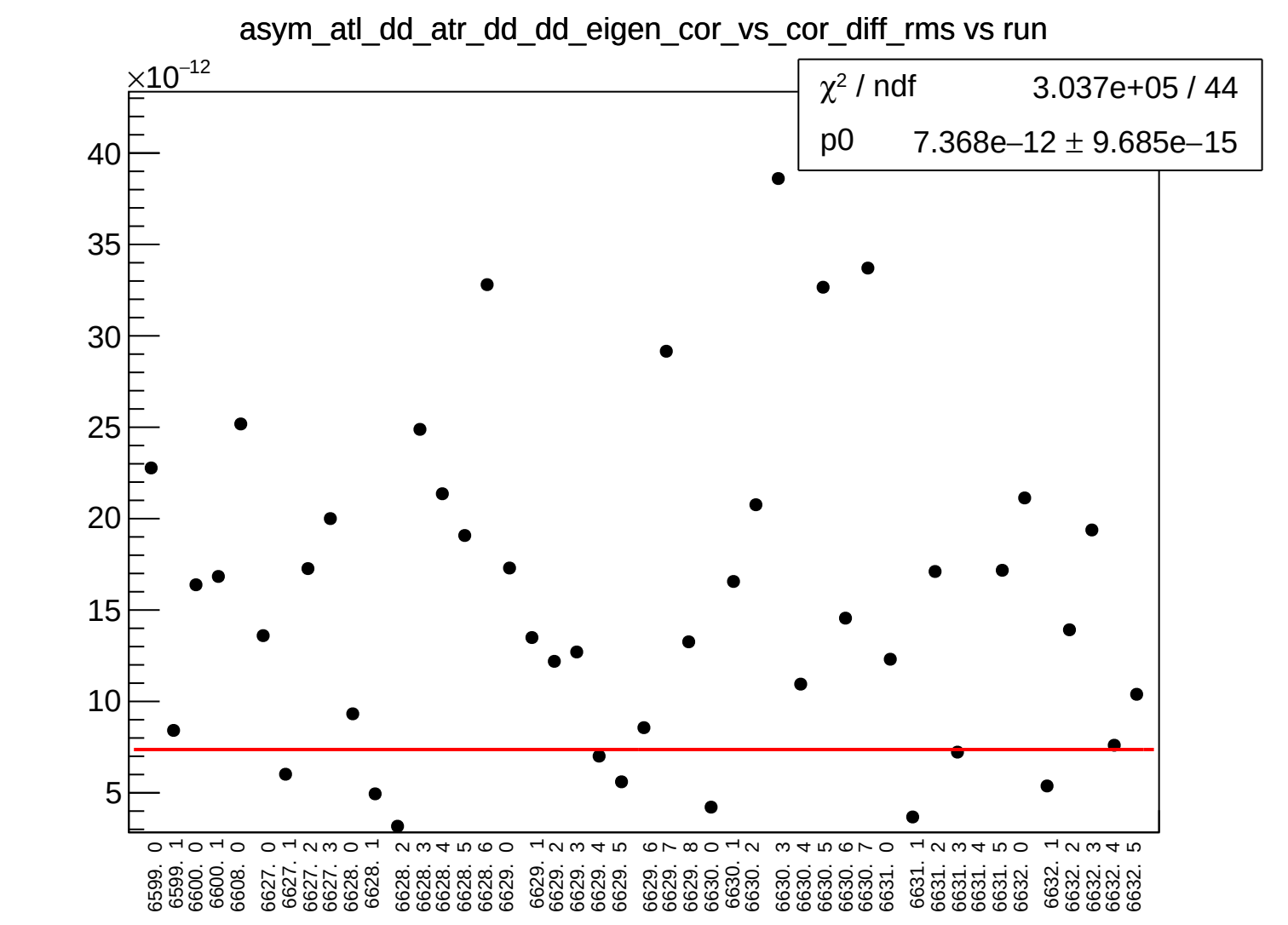

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.935e+04 / 44
p0 55.05 ± 0.05995
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

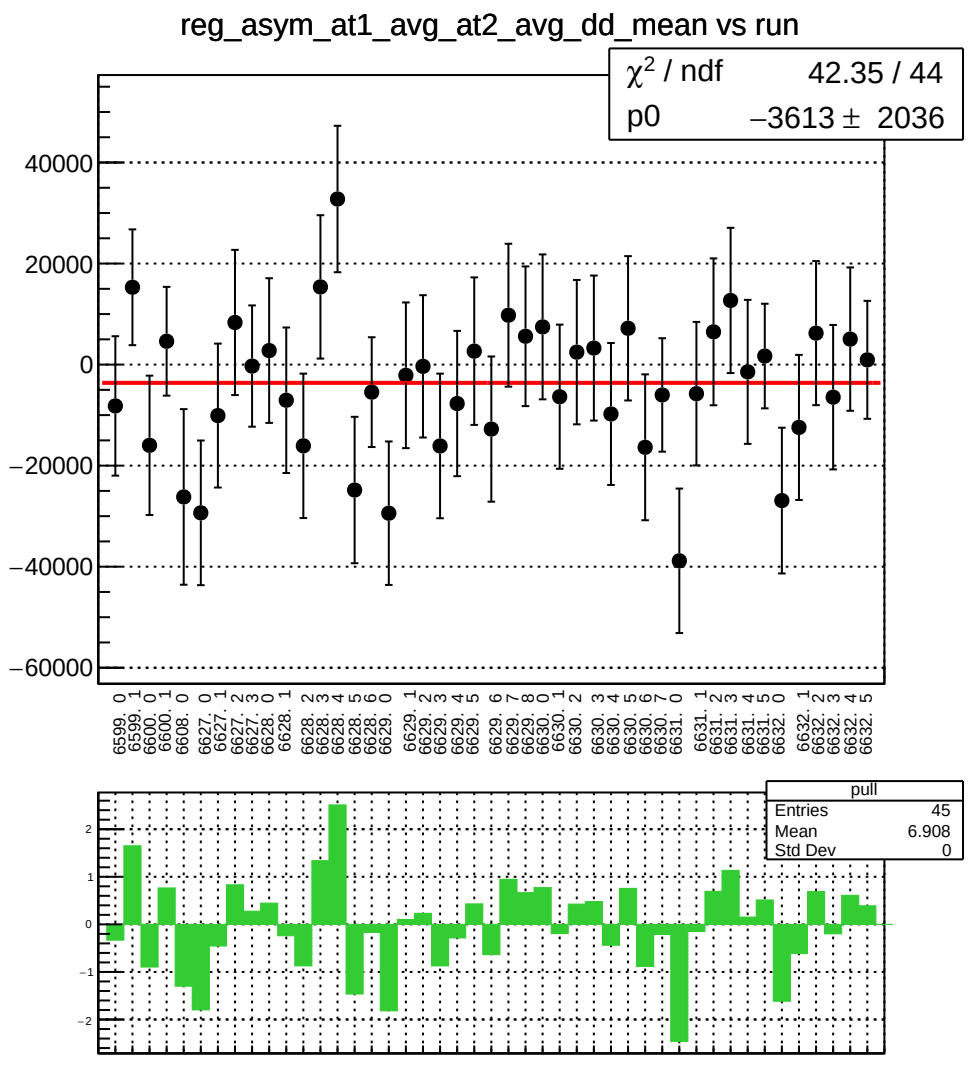

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.63 / 44
p0 −0.1064 ± 0.08479
20
10
0
−10
−20
−30
−40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −15.47
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.05371
Std Dev 1.13
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

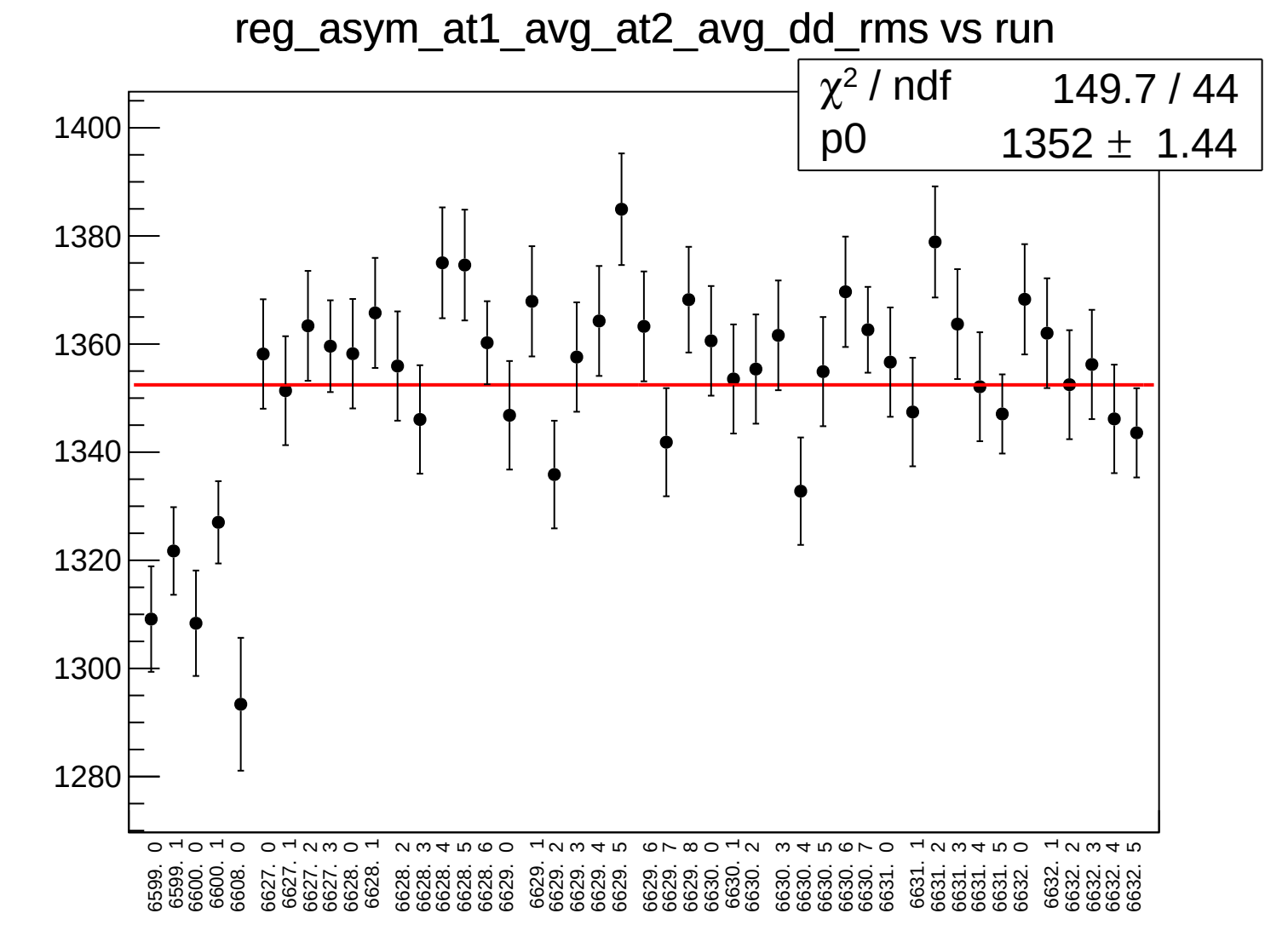

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.935e+04 / 44
p0 55.05 ± 0.05995
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

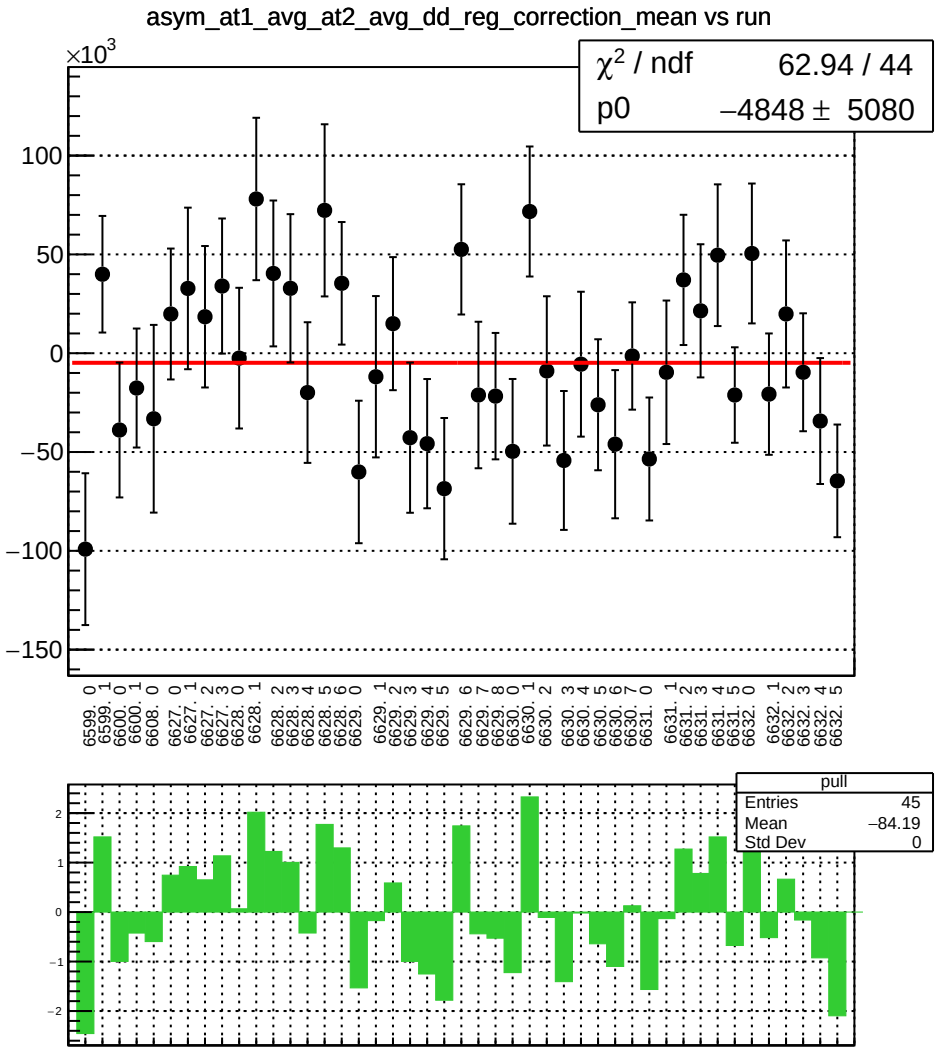

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 40.17 / 44
p0 −1.564e−14 ± 1.37e−14
pull
Entries 45
Mean 307.8
Std Dev 0

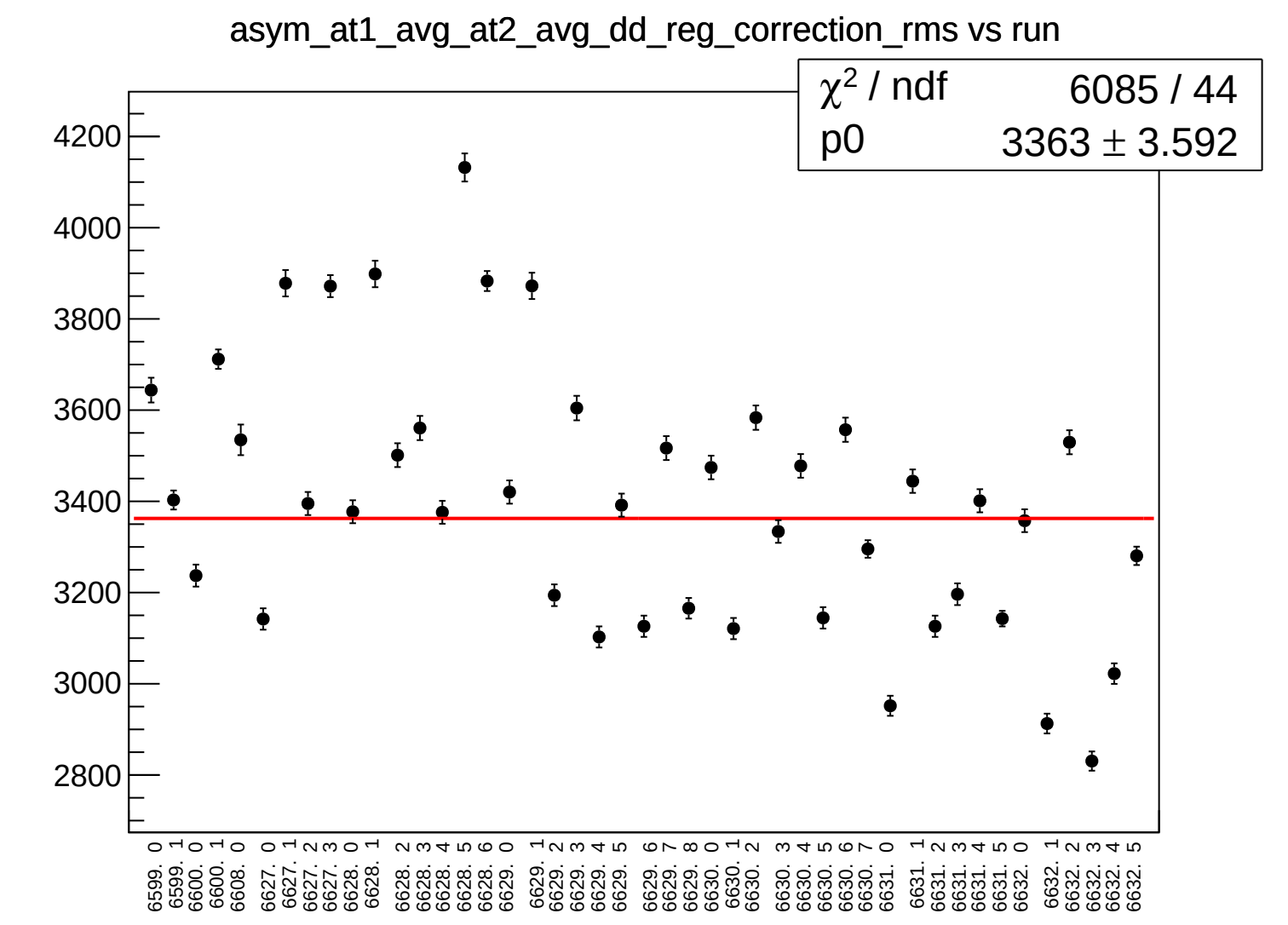

pull1D
Entries 45
Mean 0.0083
Std Dev 0.9448

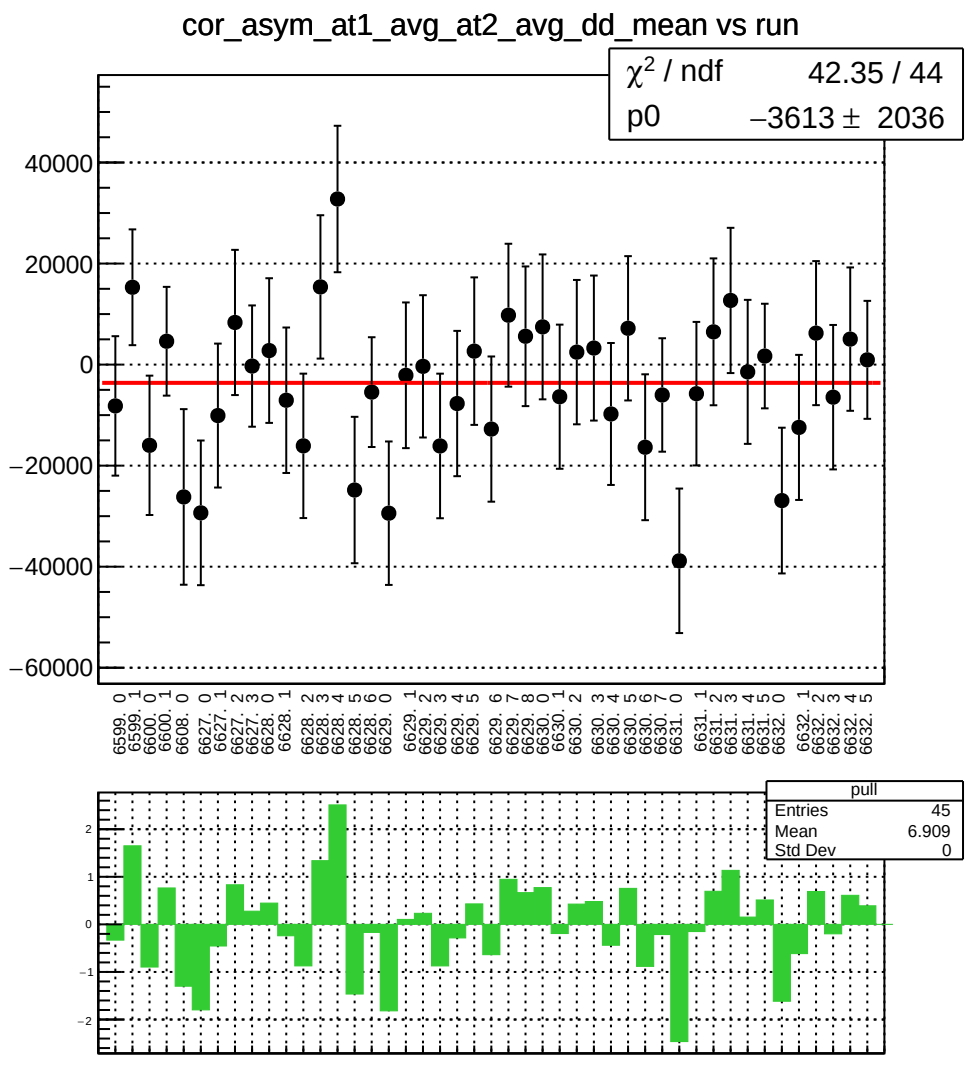

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.037e+05 / 44
p0 7.368e−12 ± 9.685e−15
40
35
30
25
20
15
10
5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

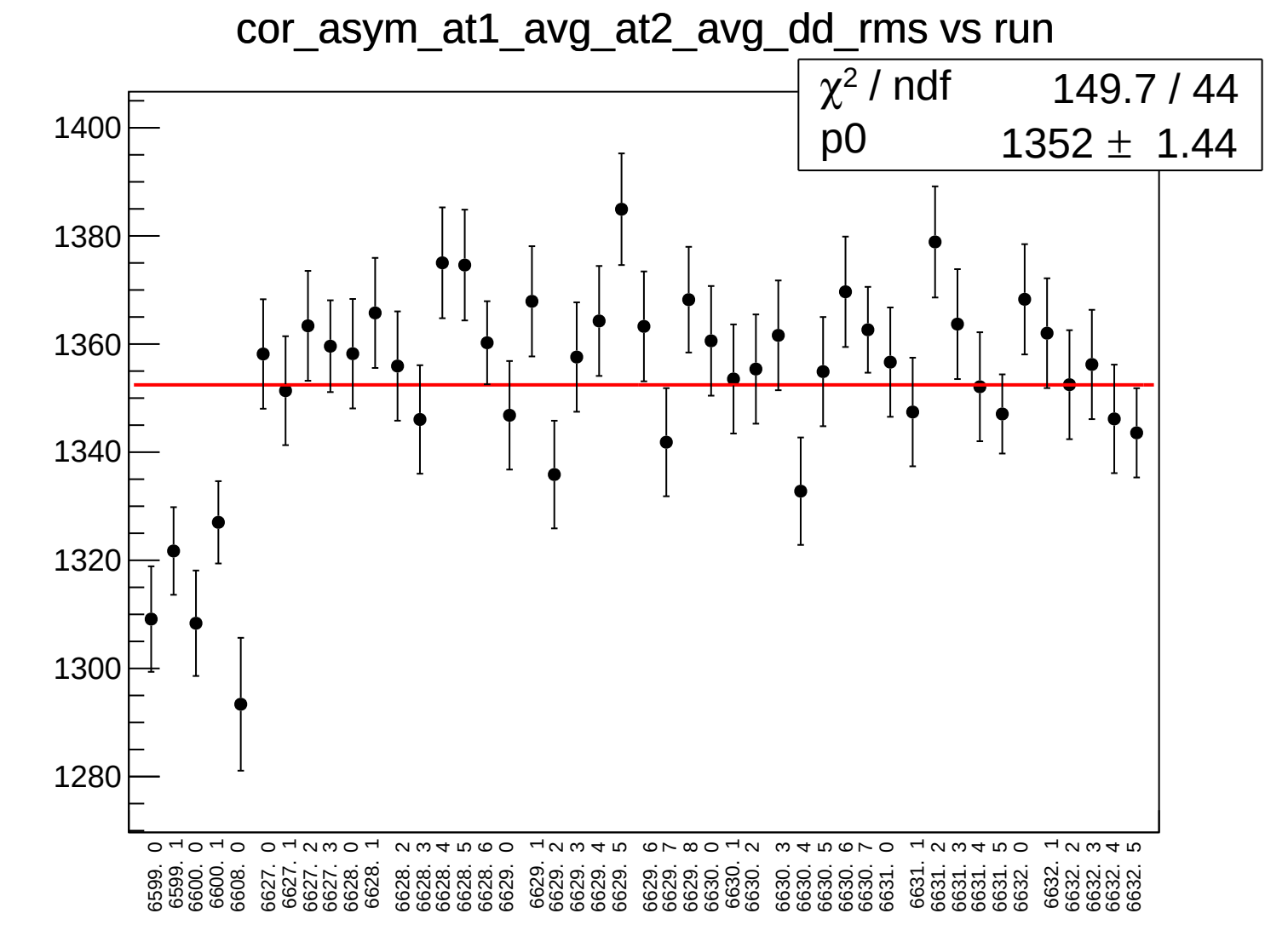

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 42.35 / 44
p0 −3613 ± 2036
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 6.908
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02411
Std Dev 0.9698
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

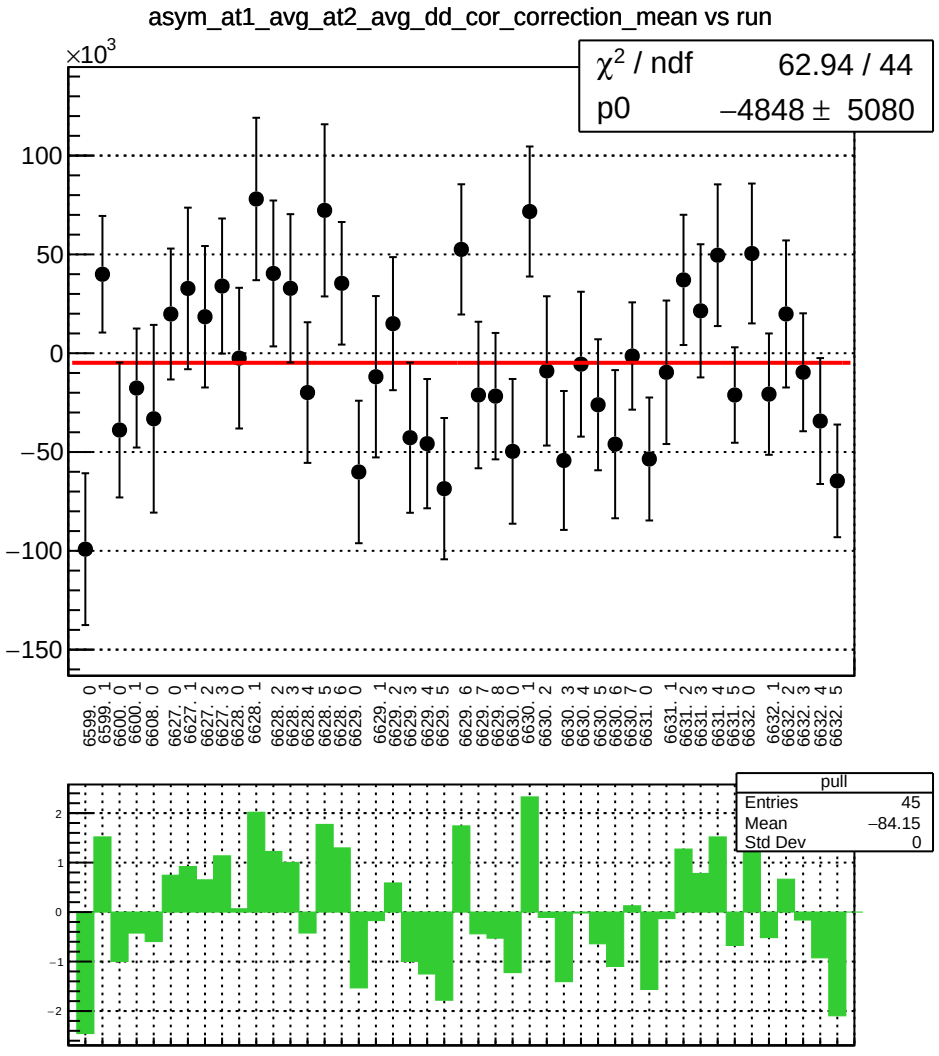

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 149.7 / 44
p0 1352 ± 1.44
1400
1380
1360
1340
1320
1300
1280
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

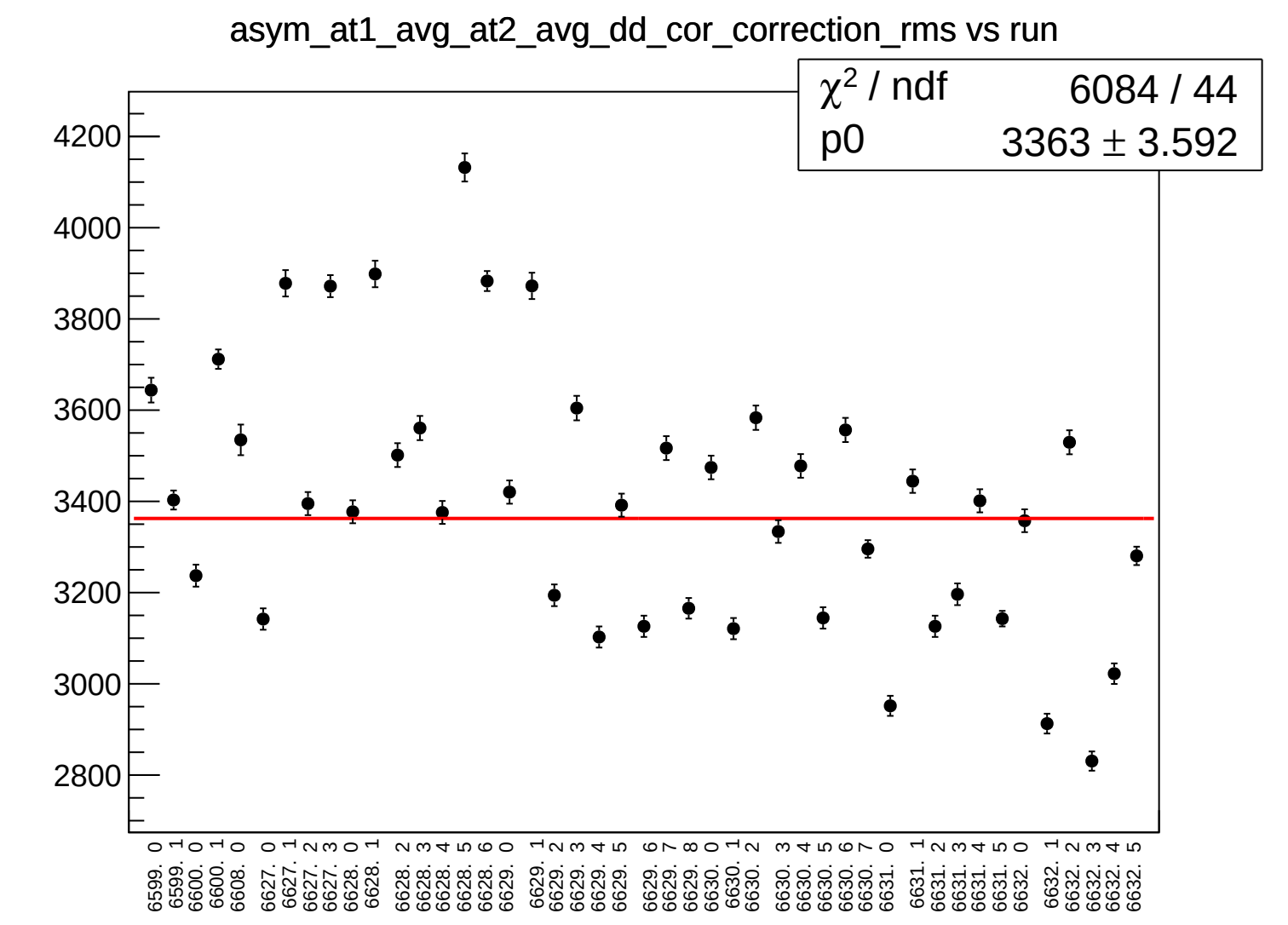

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 62.94 / 44
p0 −4848 ± 5080
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −84.19
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01712
Std Dev 1.183
8
7
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 6085 / 44
p0 3363 ± 3.592
4200
4000
3800
3600
3400
3200
3000
2800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 42.35 / 44
p0 −3613 ± 2036
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 6.909
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02411
Std Dev 0.9698
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 149.7 / 44
p0 1352 ± 1.44
1400
1380
1360
1340
1320
1300
1280
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 62.94 / 44
p0 −4848 ± 5080
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −84.15
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01713
Std Dev 1.183
8
7
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 6084 / 44
p0 3363 ± 3.592
4200
4000
3800
3600
3400
3200
3000
2800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
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6630. 4
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6630. 7
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6631. 1
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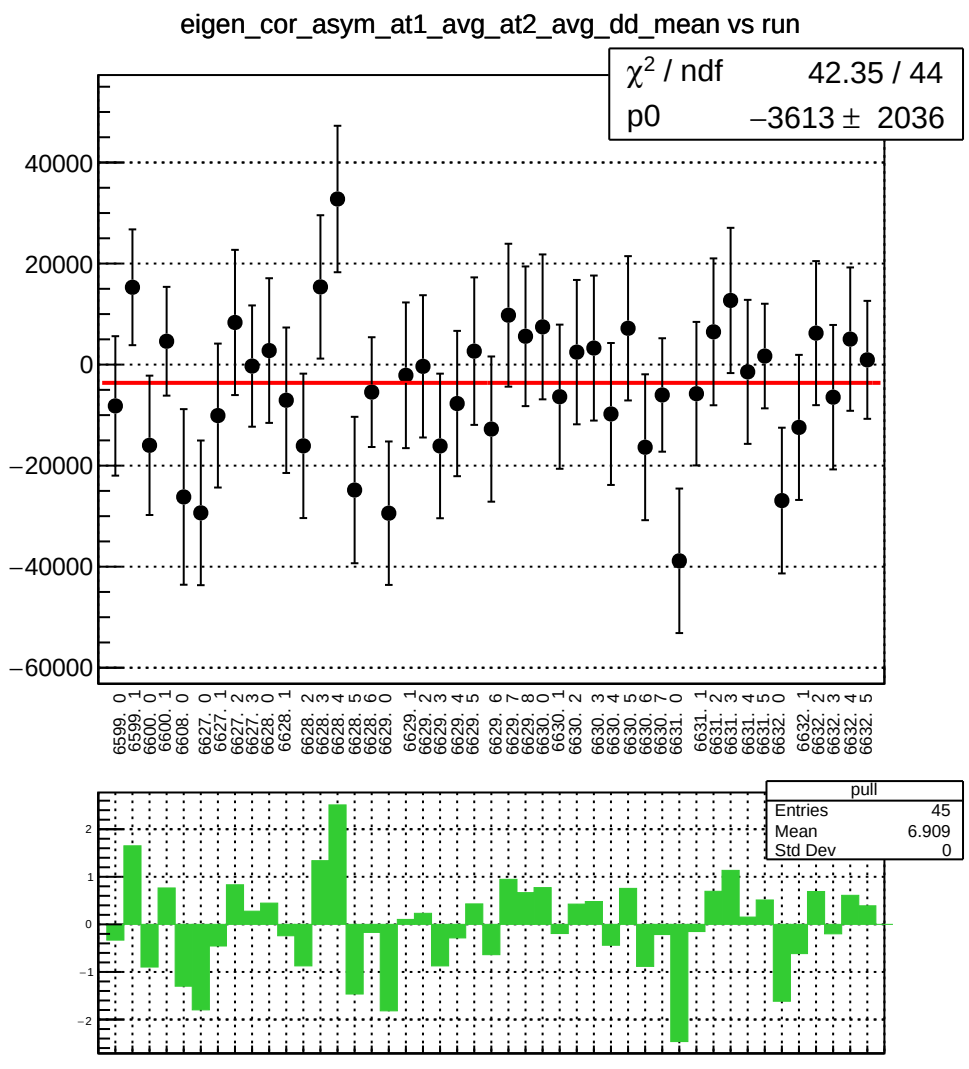
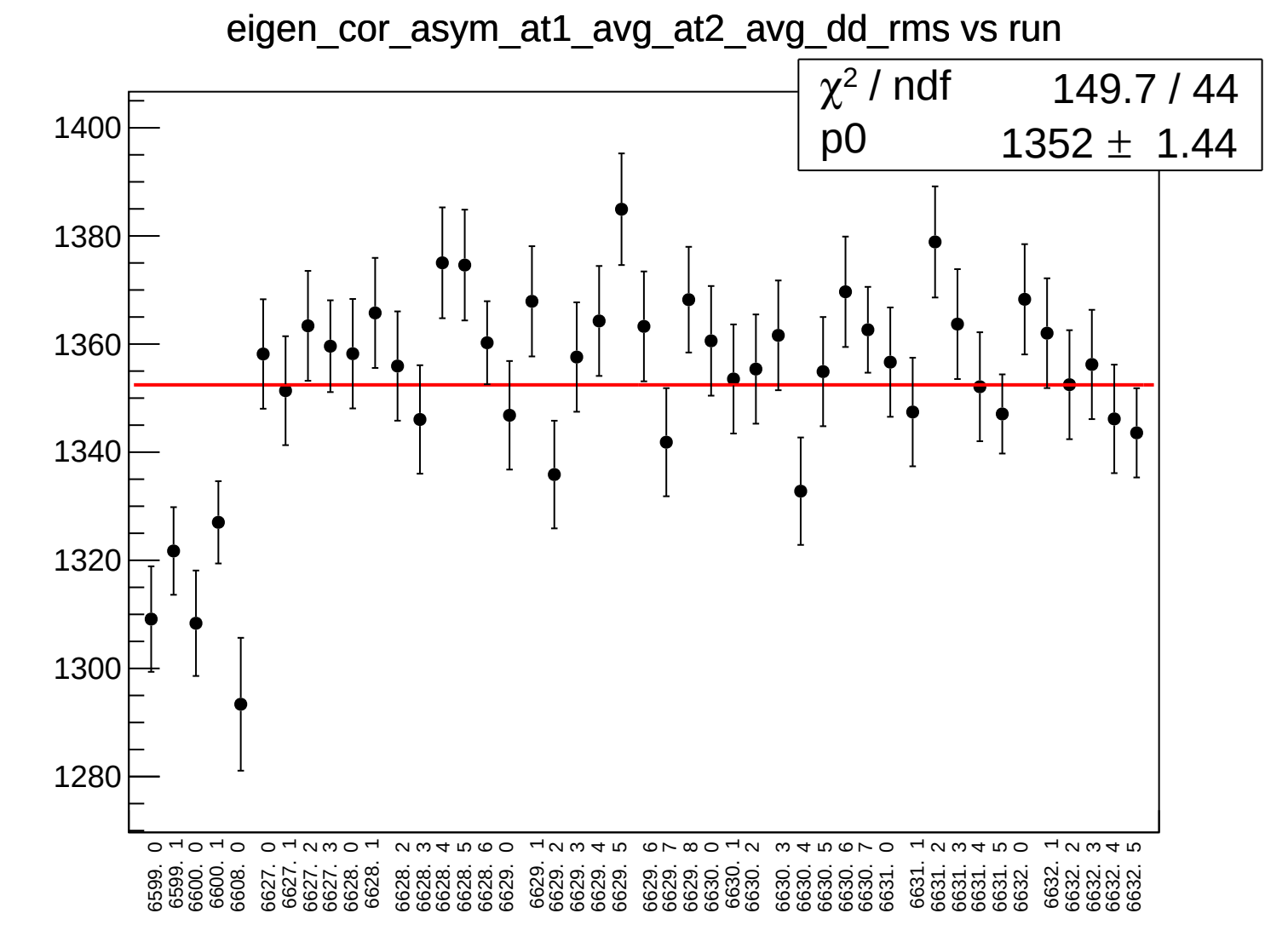
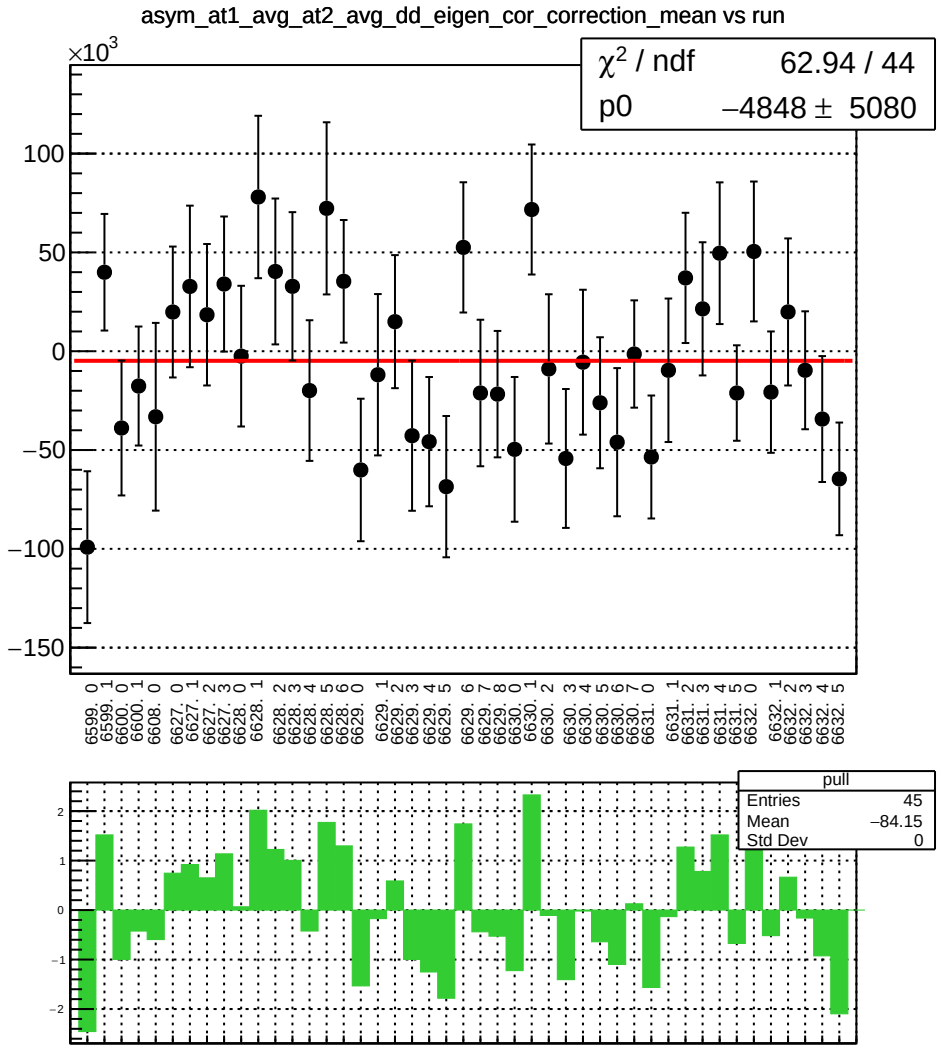
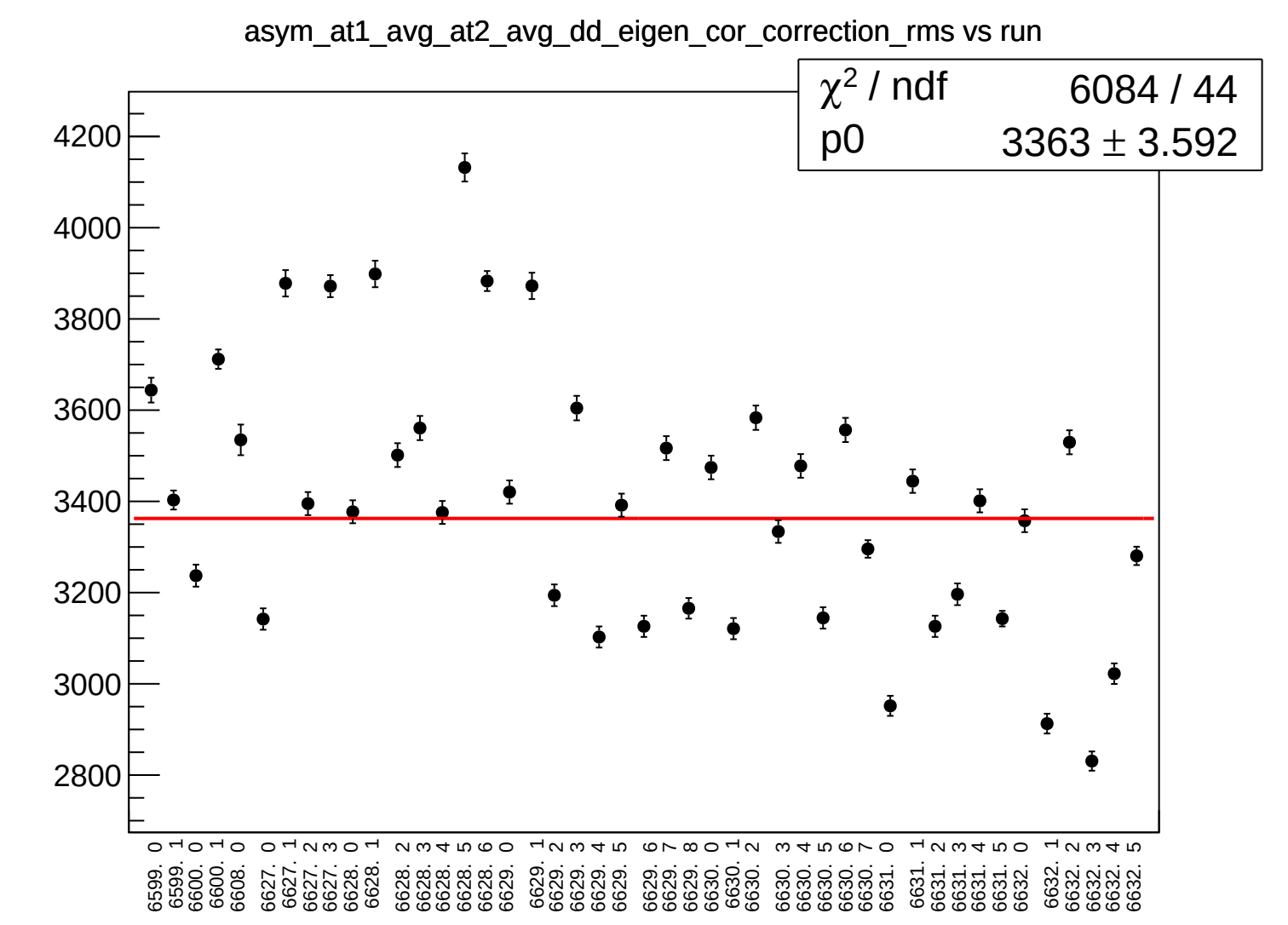
6632. 5


eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 42.35 / 44
p0 −3613 ± 2036
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 6.909
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02411
Std Dev 0.9698
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 149.7 / 44
p0 1352 ± 1.44
1400
1380
1360
1340
1320
1300
1280
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 62.94 / 44
p0 −4848 ± 5080
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −84.15
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01713
Std Dev 1.183
8
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_correction_rms vs run
χ² / ndf 6084 / 44
p0 3363 ± 3.592
4200
4000
3800
3600
3400
3200
3000
2800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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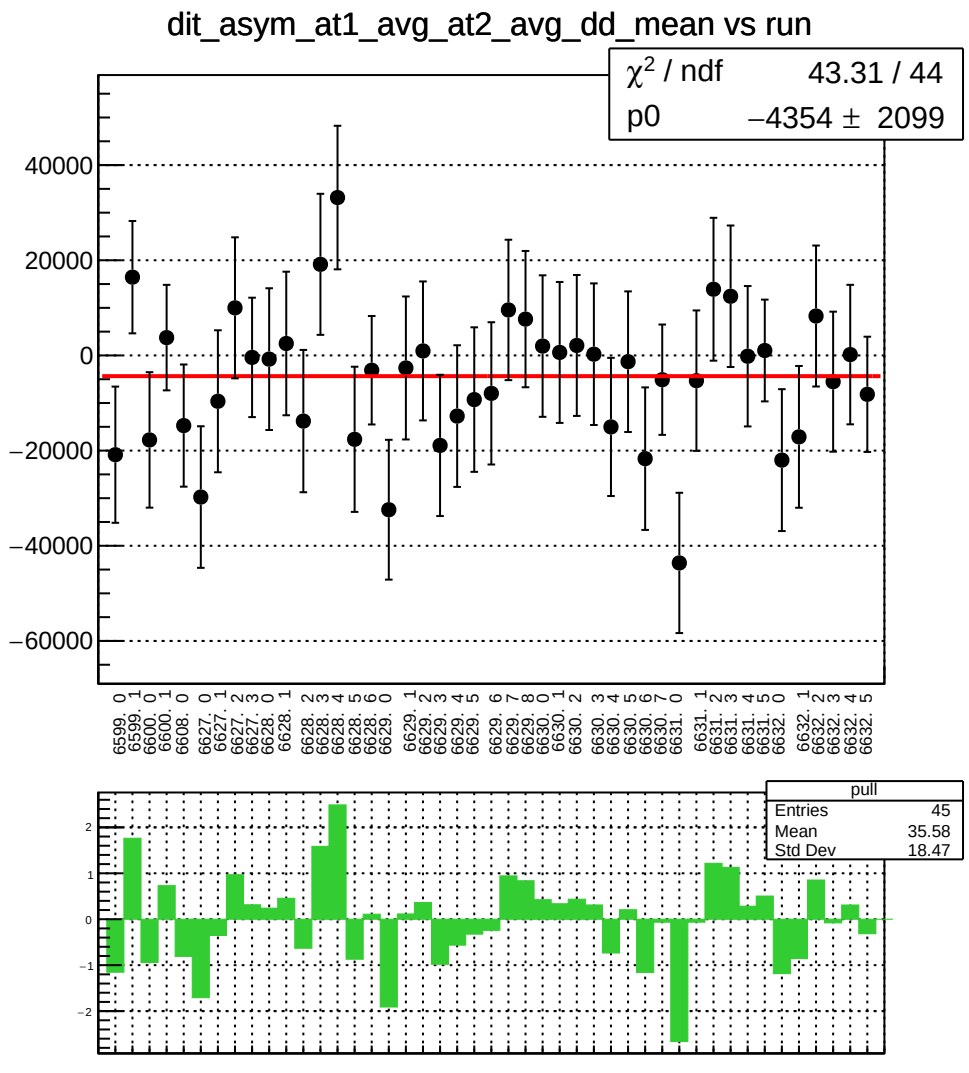
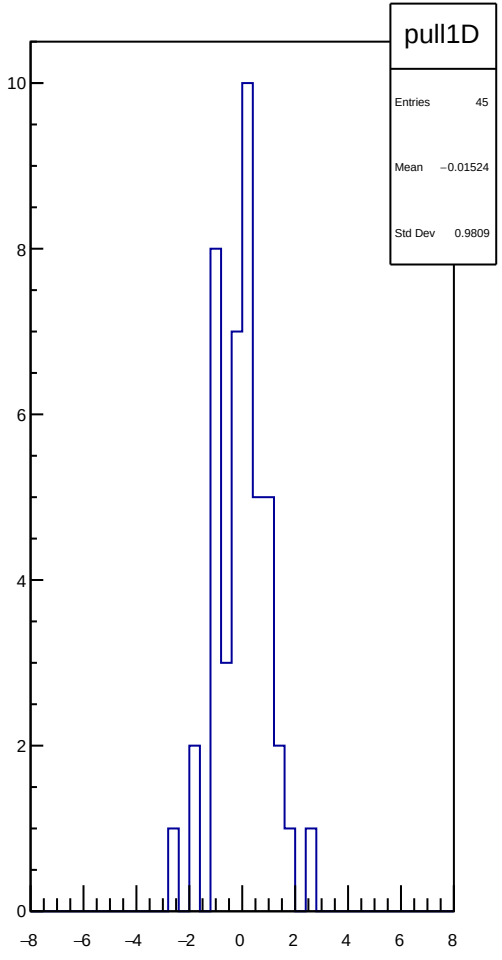
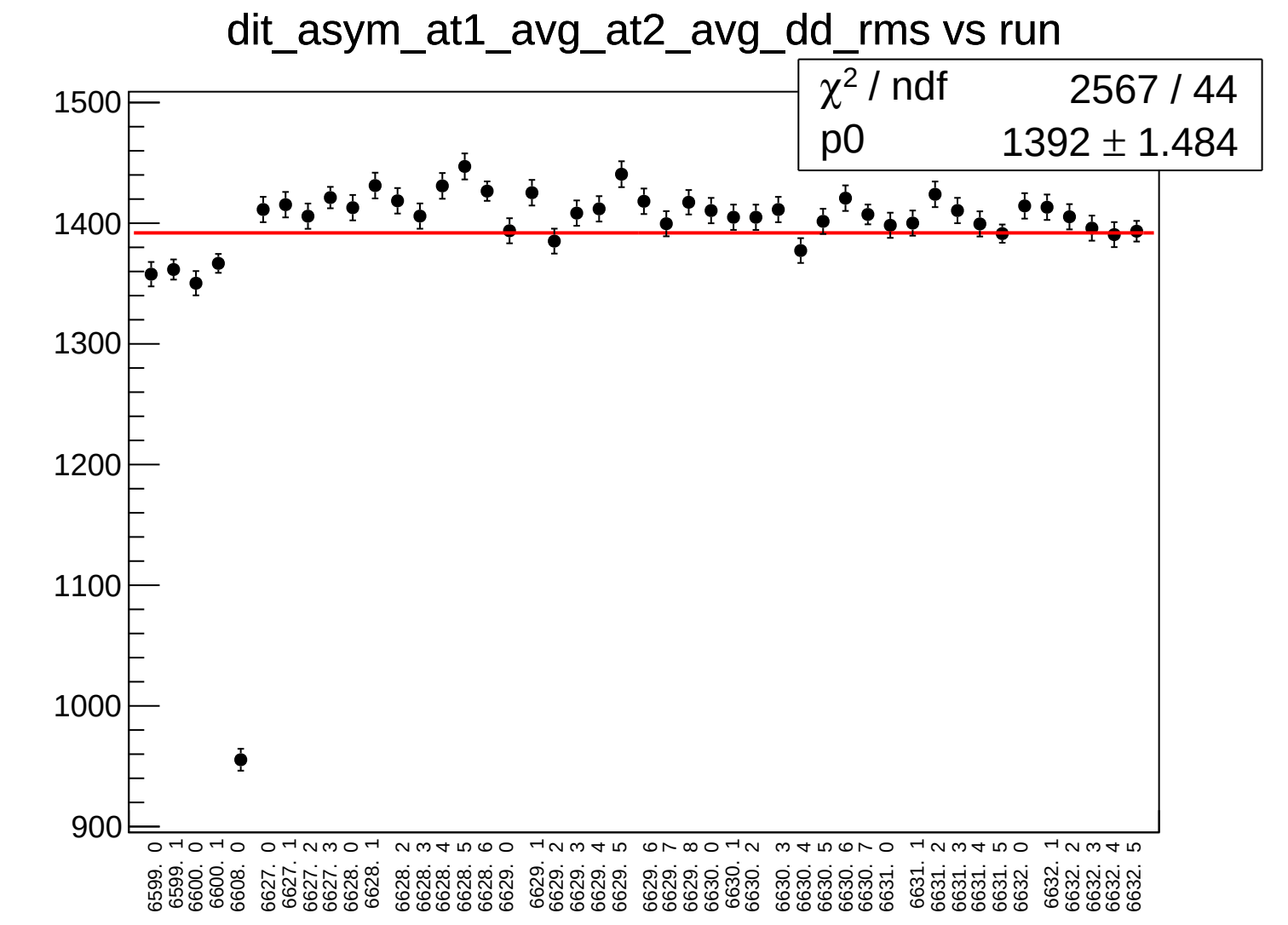
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 43.31 / 44
p0 −4354 ± 2099
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 35.58
Std Dev 18.47
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.01524
Std Dev 0.9809
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 2567 / 44
p0 1392 ± 1.484
1500
1400
1300
1200
1100
1000
900
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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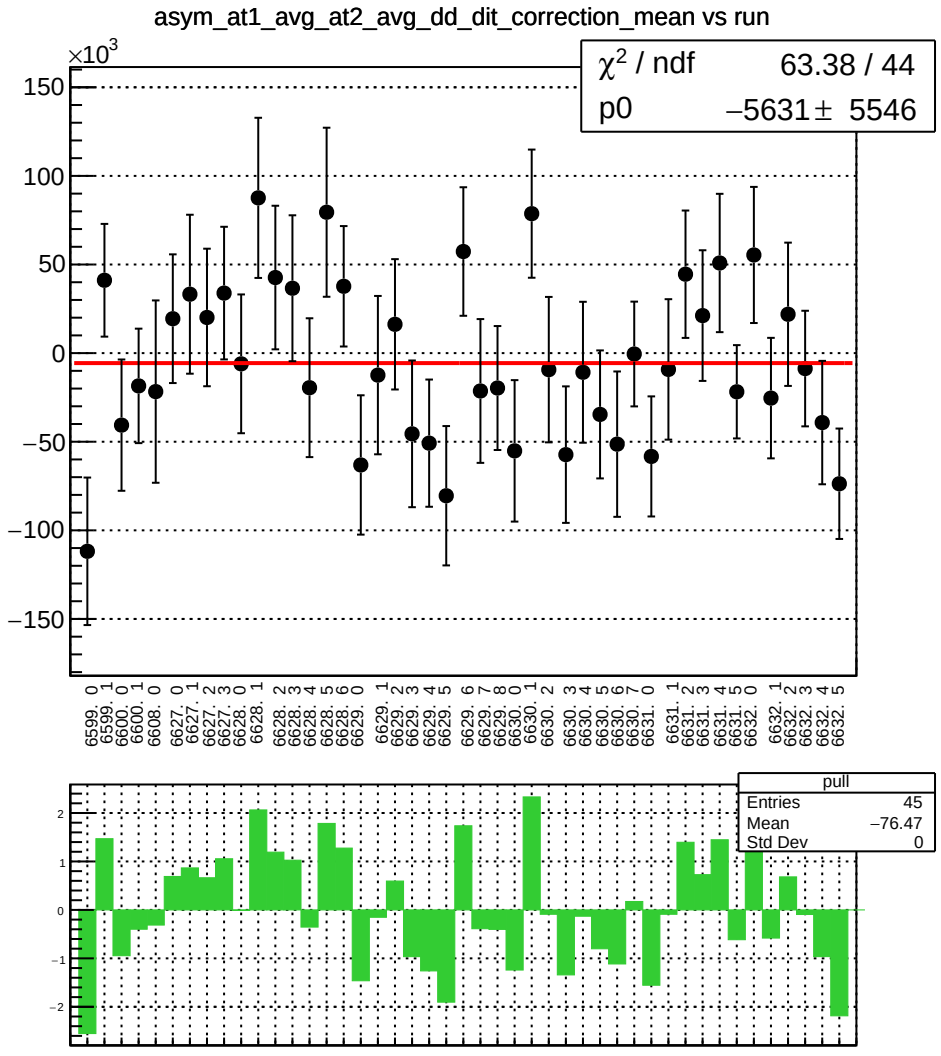
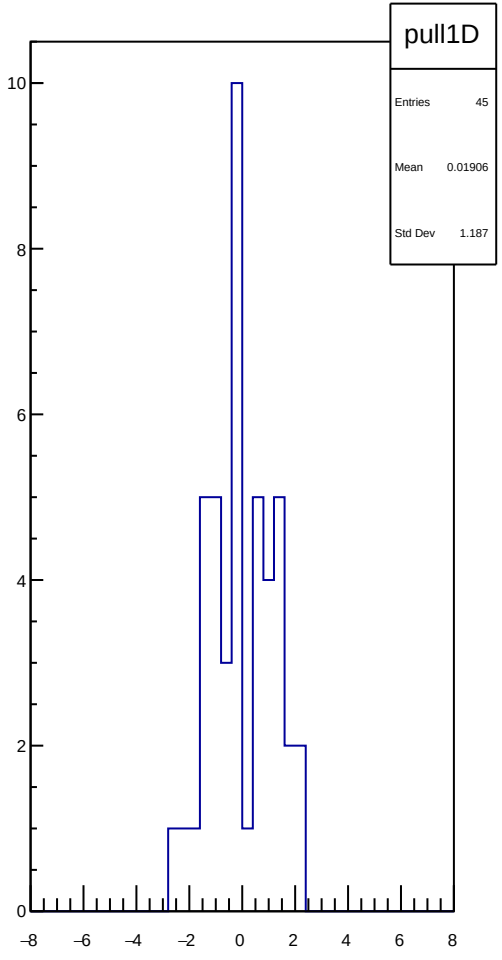
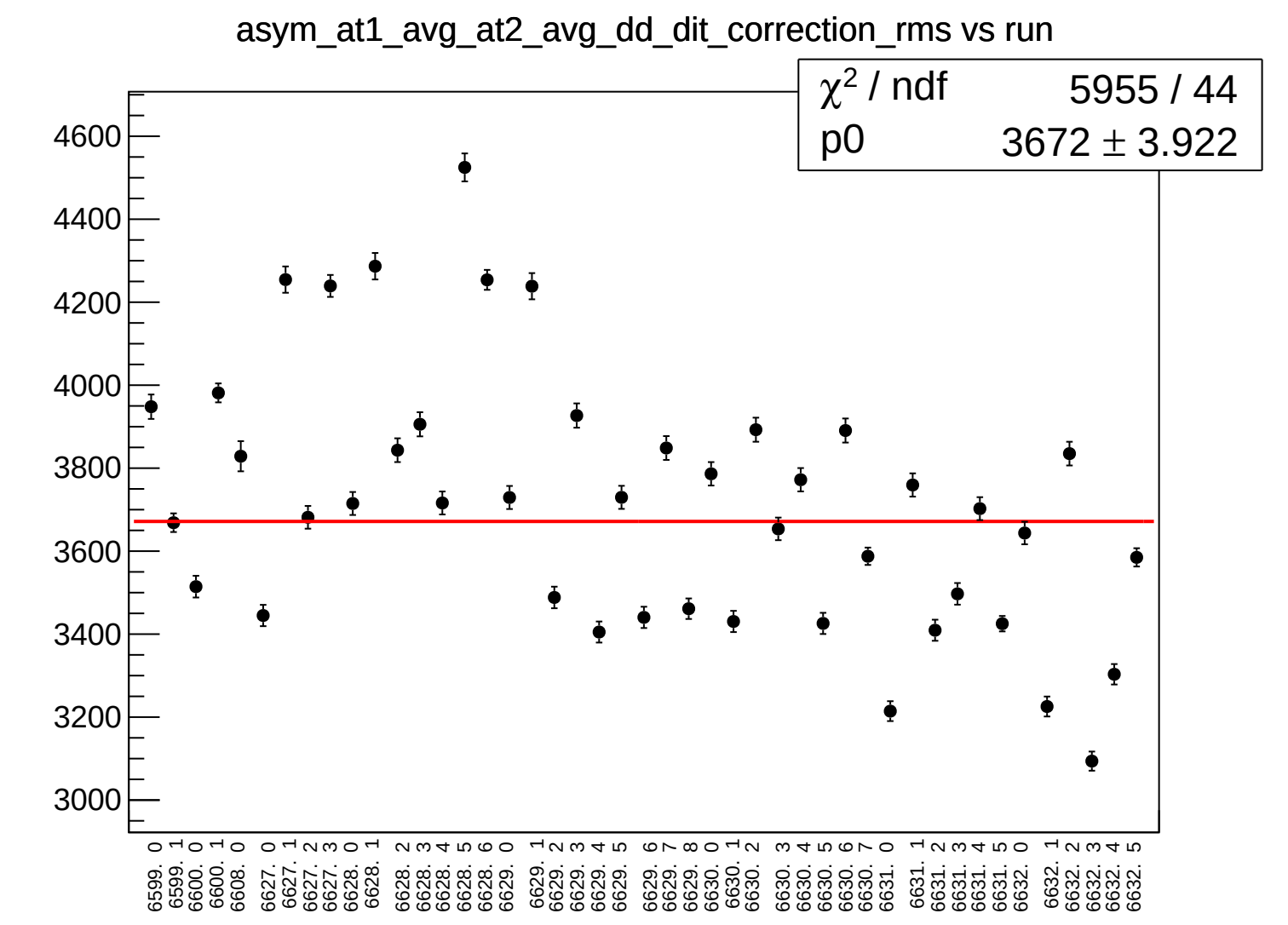
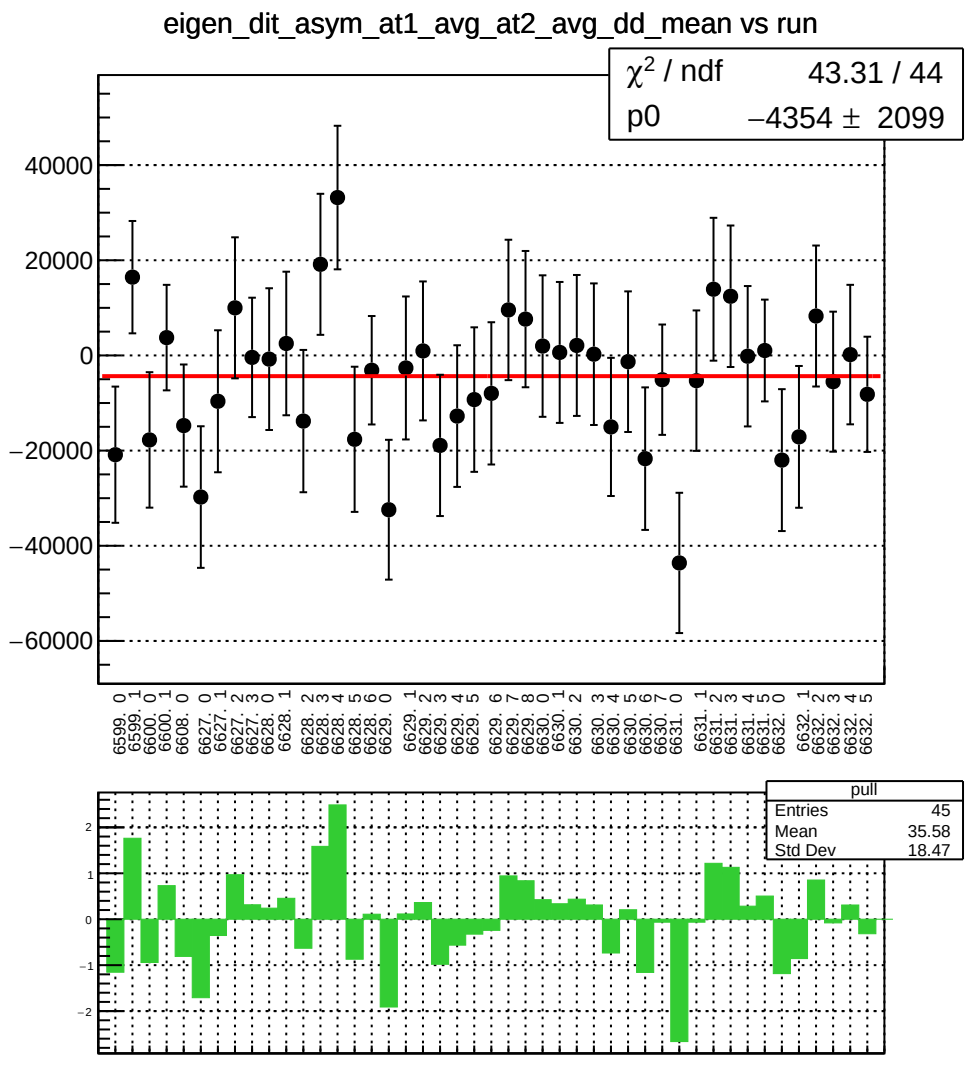
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 63.38 / 44
p0 −5631 ± 5546
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −76.47
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.01906
Std Dev 1.187
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 5955 / 44
p0 3672 ± 3.922
4600
4400
4200
4000
3800
3600
3400
3200
3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 43.31 / 44
p0 −4354 ± 2099
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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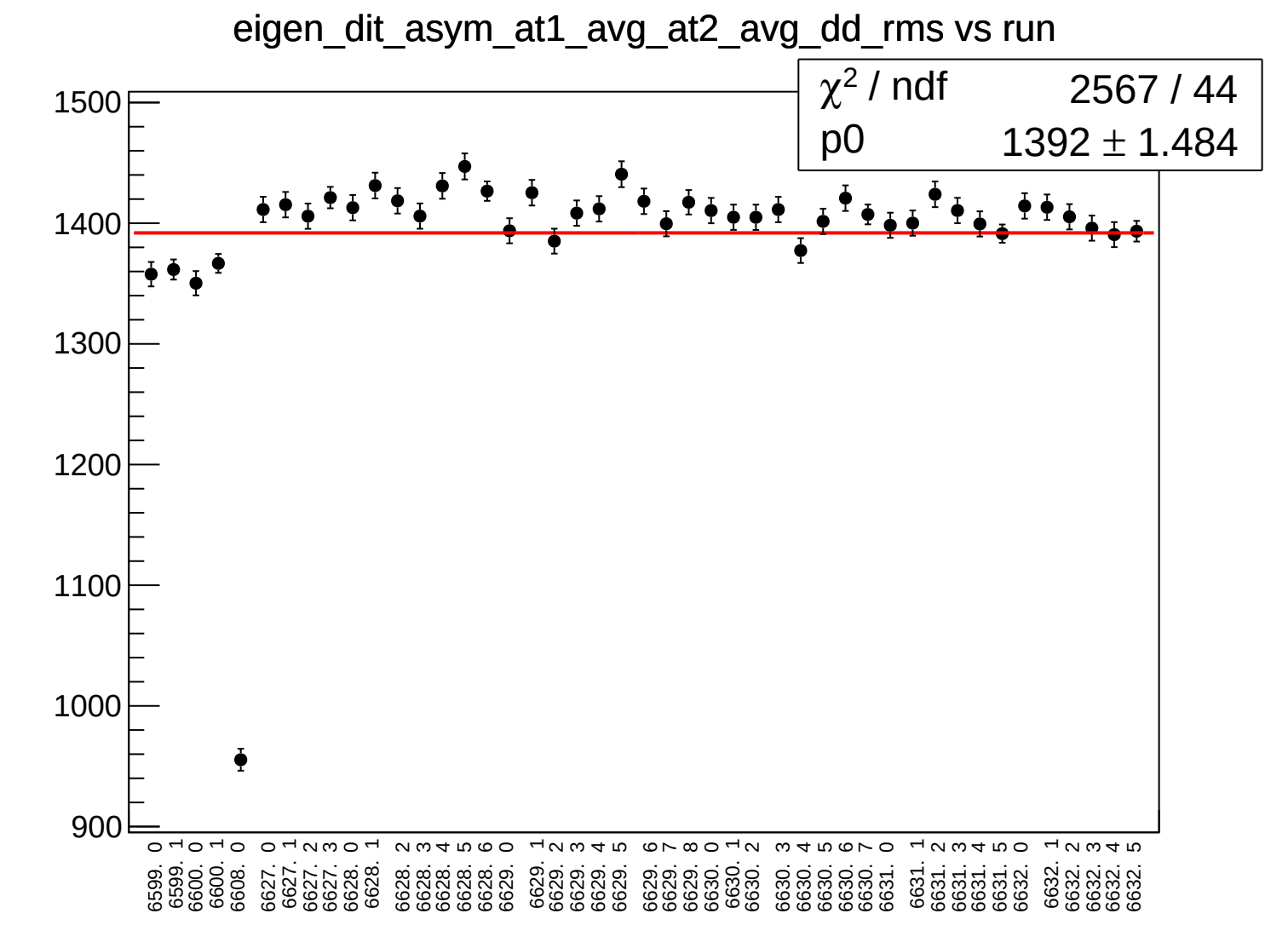
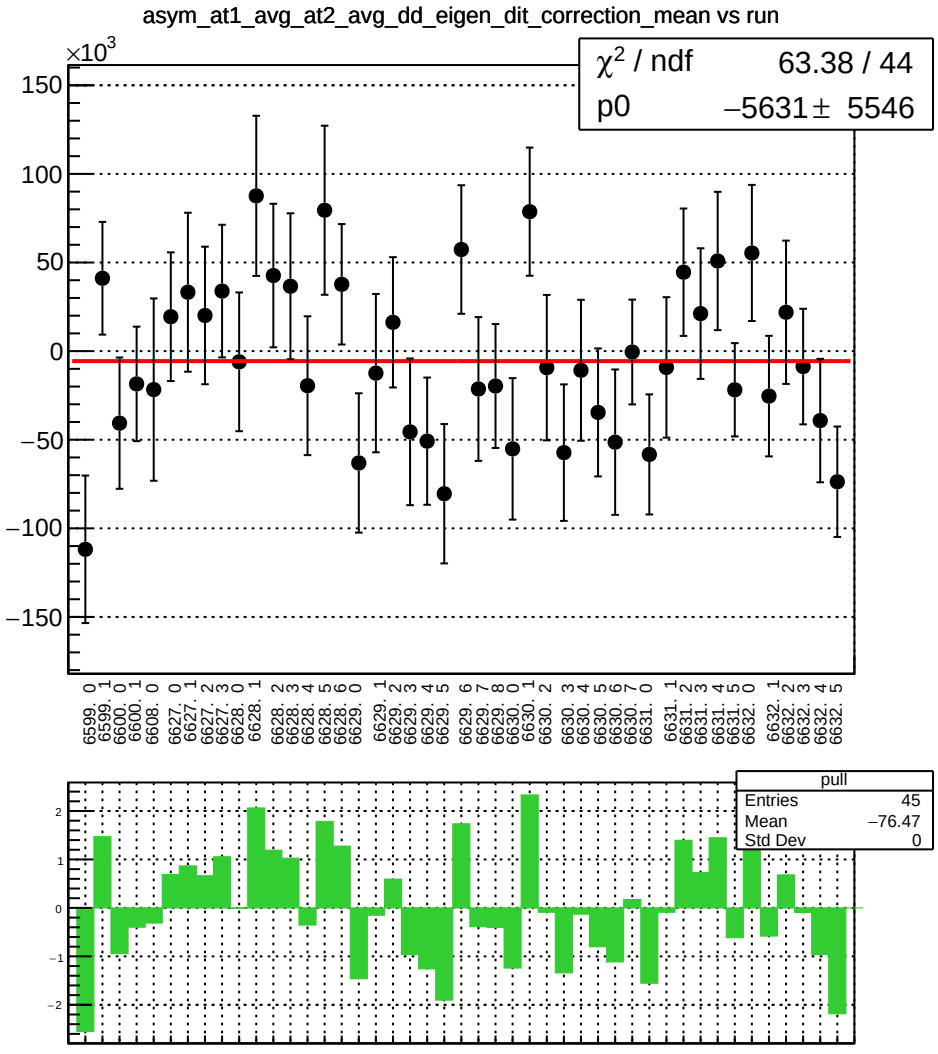
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 35.58
Std Dev 18.47
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01524
Std Dev 0.9809
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 2567 / 44
p0 1392 ± 1.484
1500
1400
1300
1200
1100
1000
900
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 63.38 / 44
p0 −5631 ± 5546
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
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6628. 5
6628. 6
6629. 0
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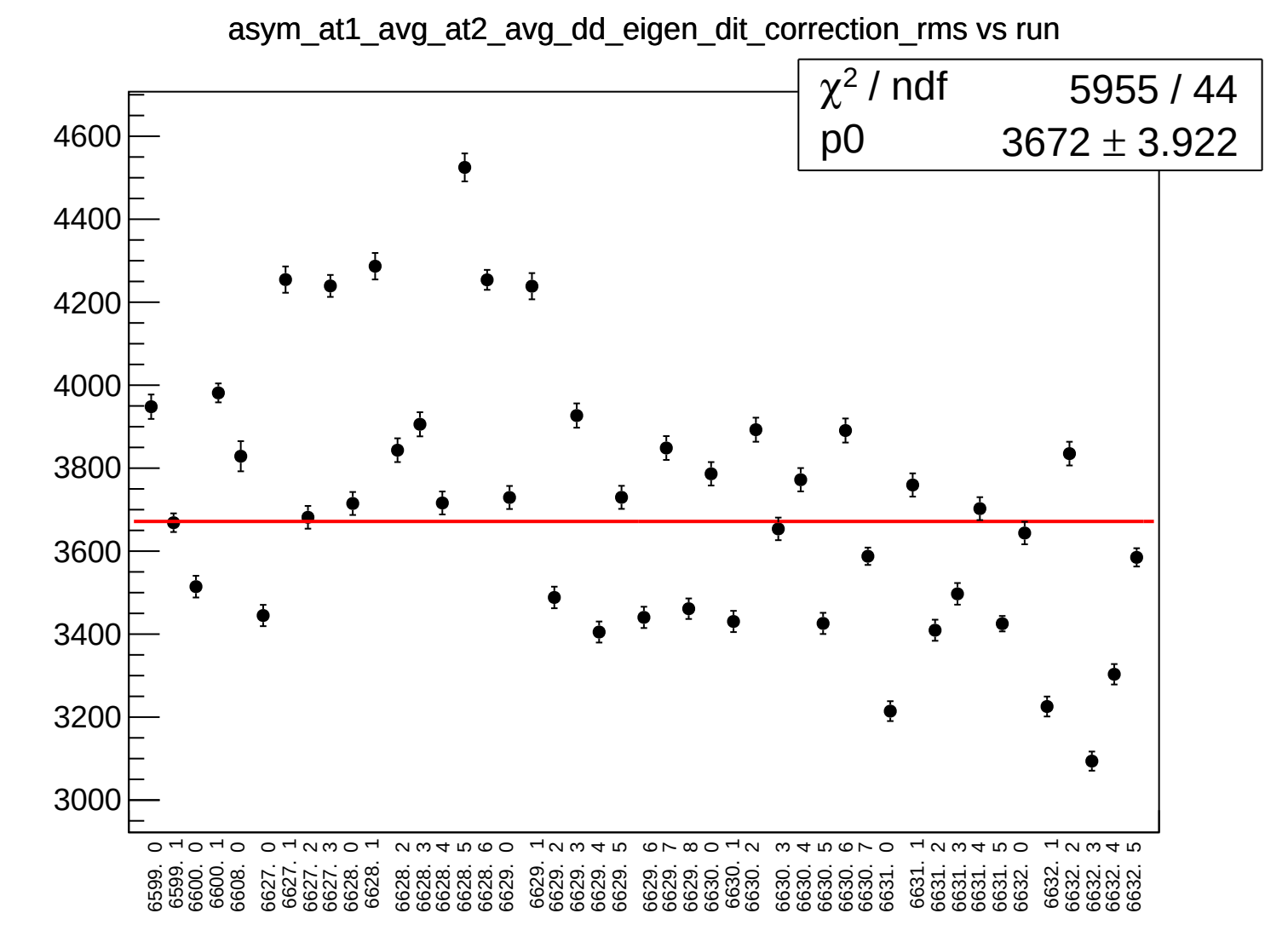
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −76.47
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01906
Std Dev 1.187
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 5955 / 44
p0 3672 ± 3.922
4600
4400
4200
4000
3800
3600
3400
3200
3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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6627. 1
6627. 2
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6629. 2
6629. 3
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6631. 0
6631. 1
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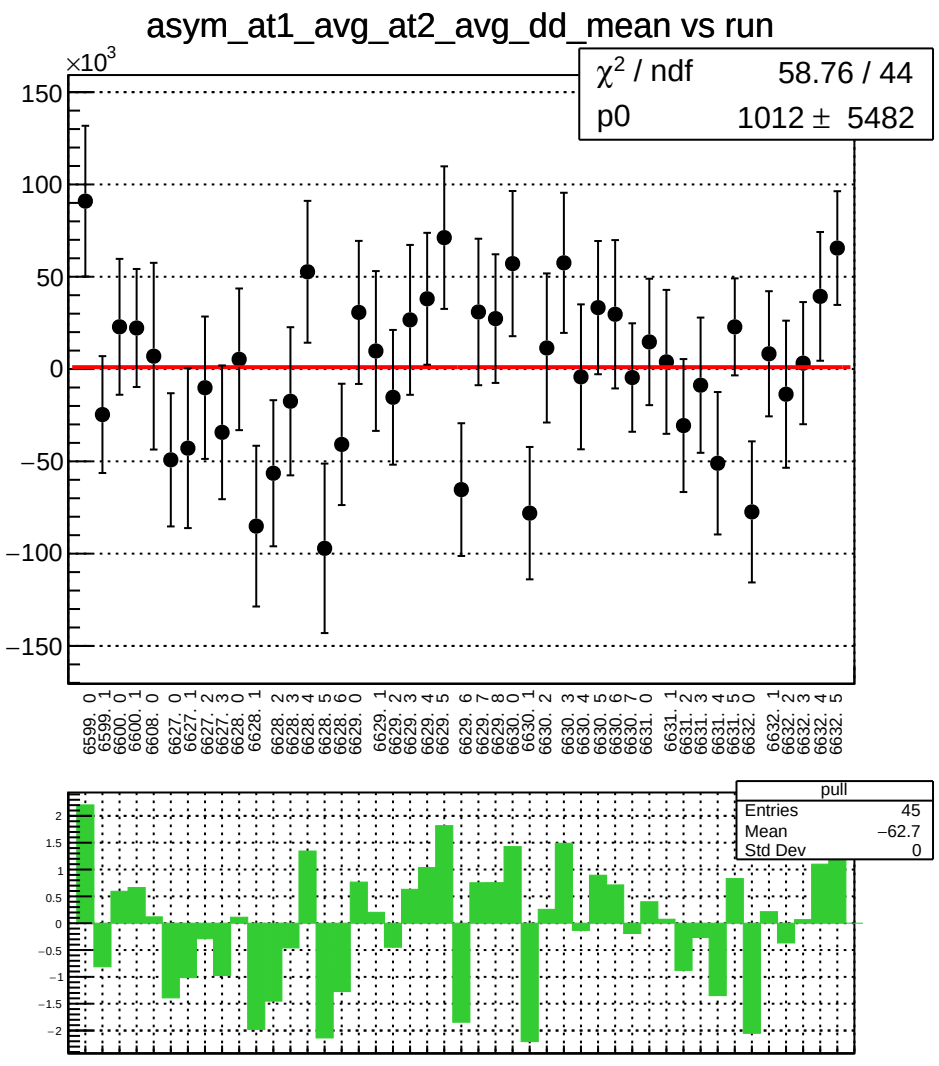
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 58.76 / 44
p0 1012 ± 5482
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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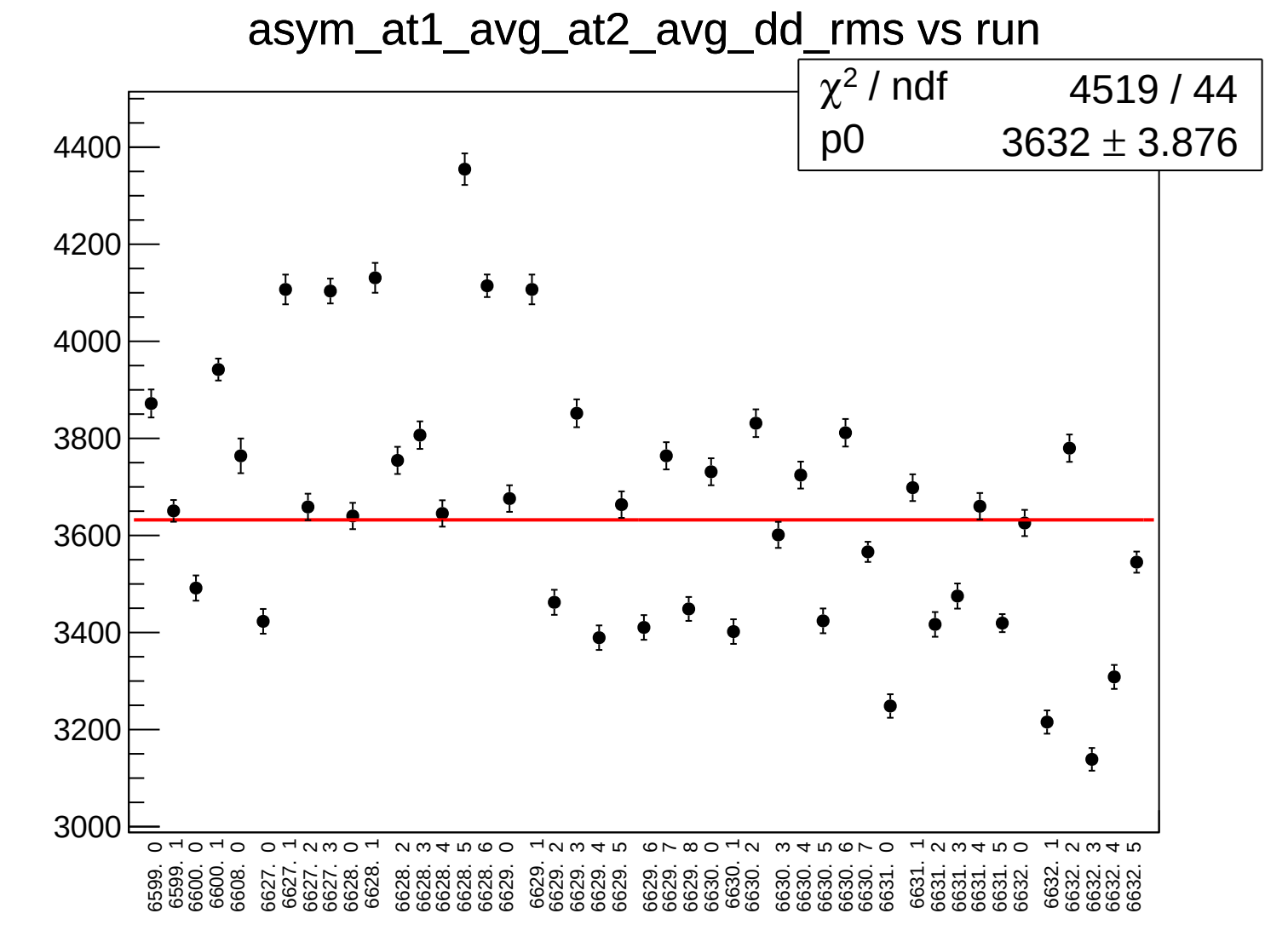
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −62.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.0212
Std Dev 1.143
8
7
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 4519 / 44
p0 3632 ± 3.876
4400
4200
4000
3800
3600
3400
3200
3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
6629. 3
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6629. 8
6630. 0
6630. 1
6630. 2
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6630. 4
6630. 5
6630. 6
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6631. 0
6631. 1
6631. 2
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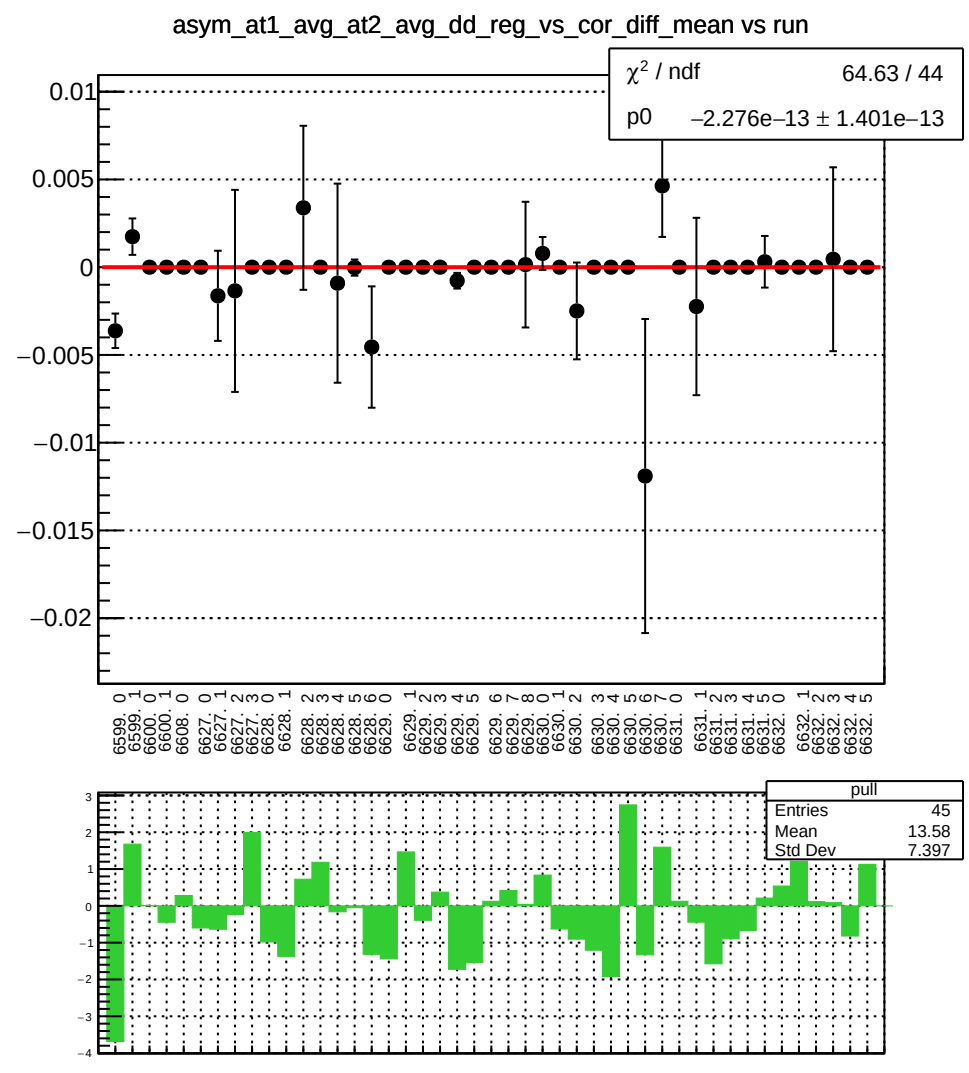
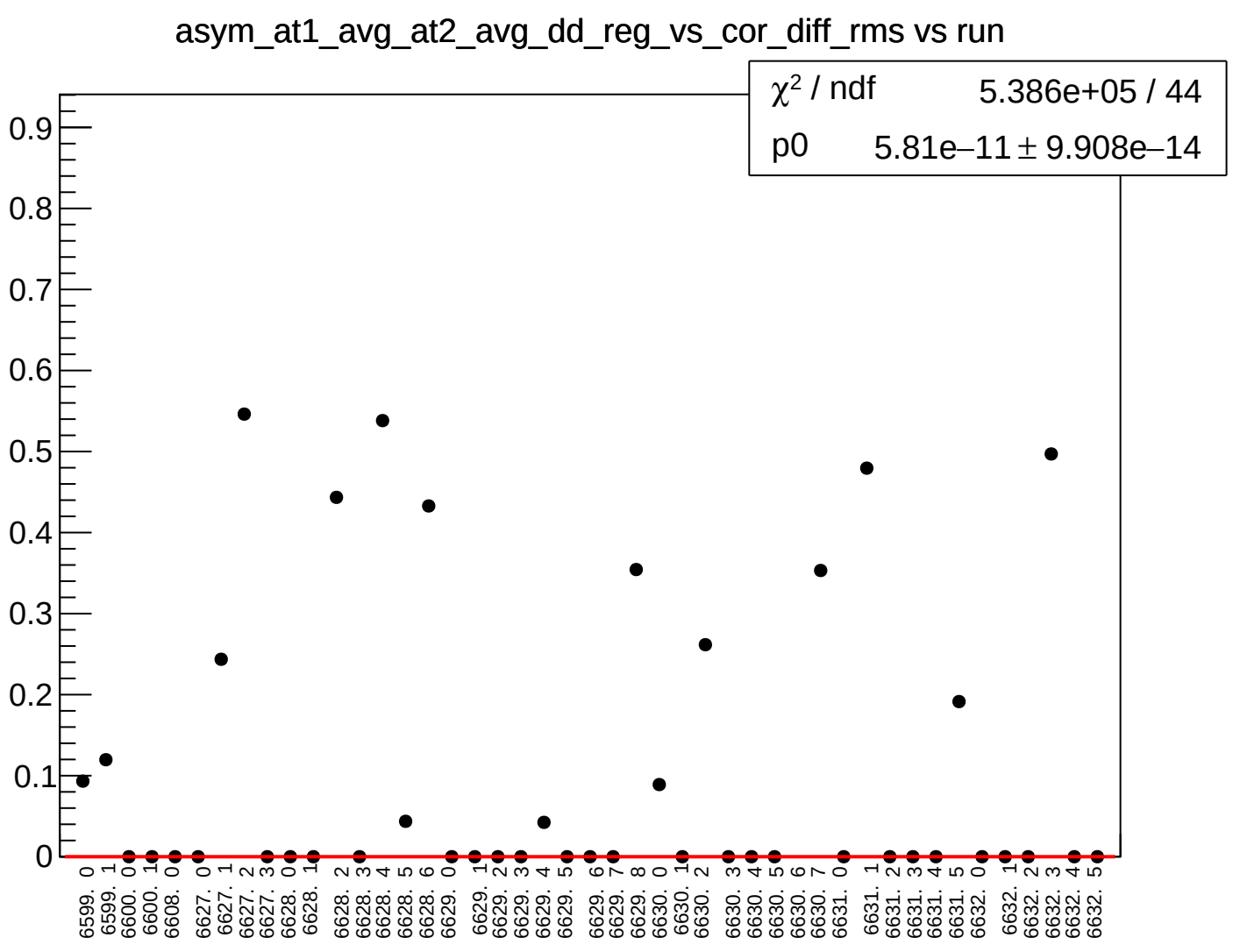
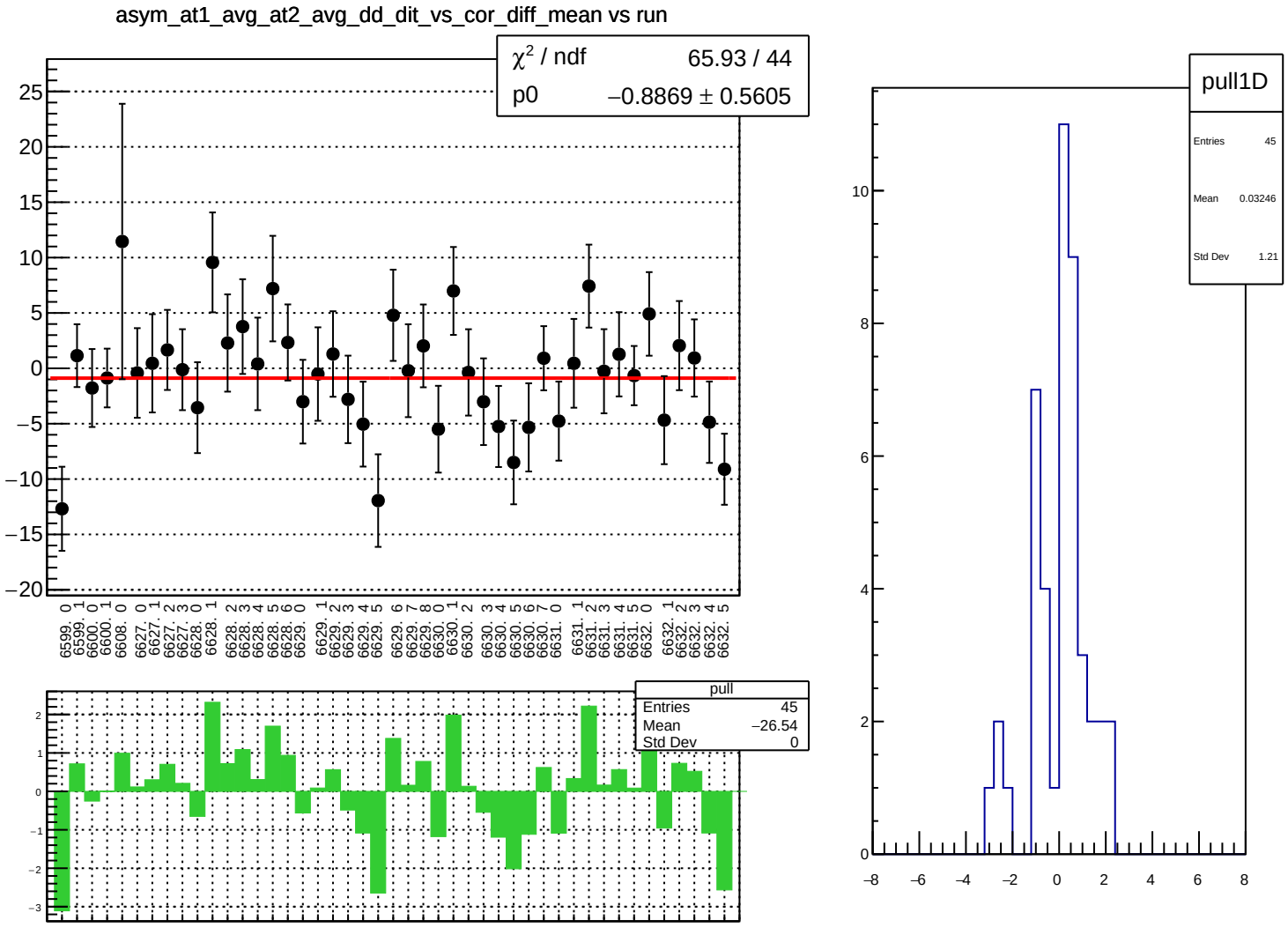
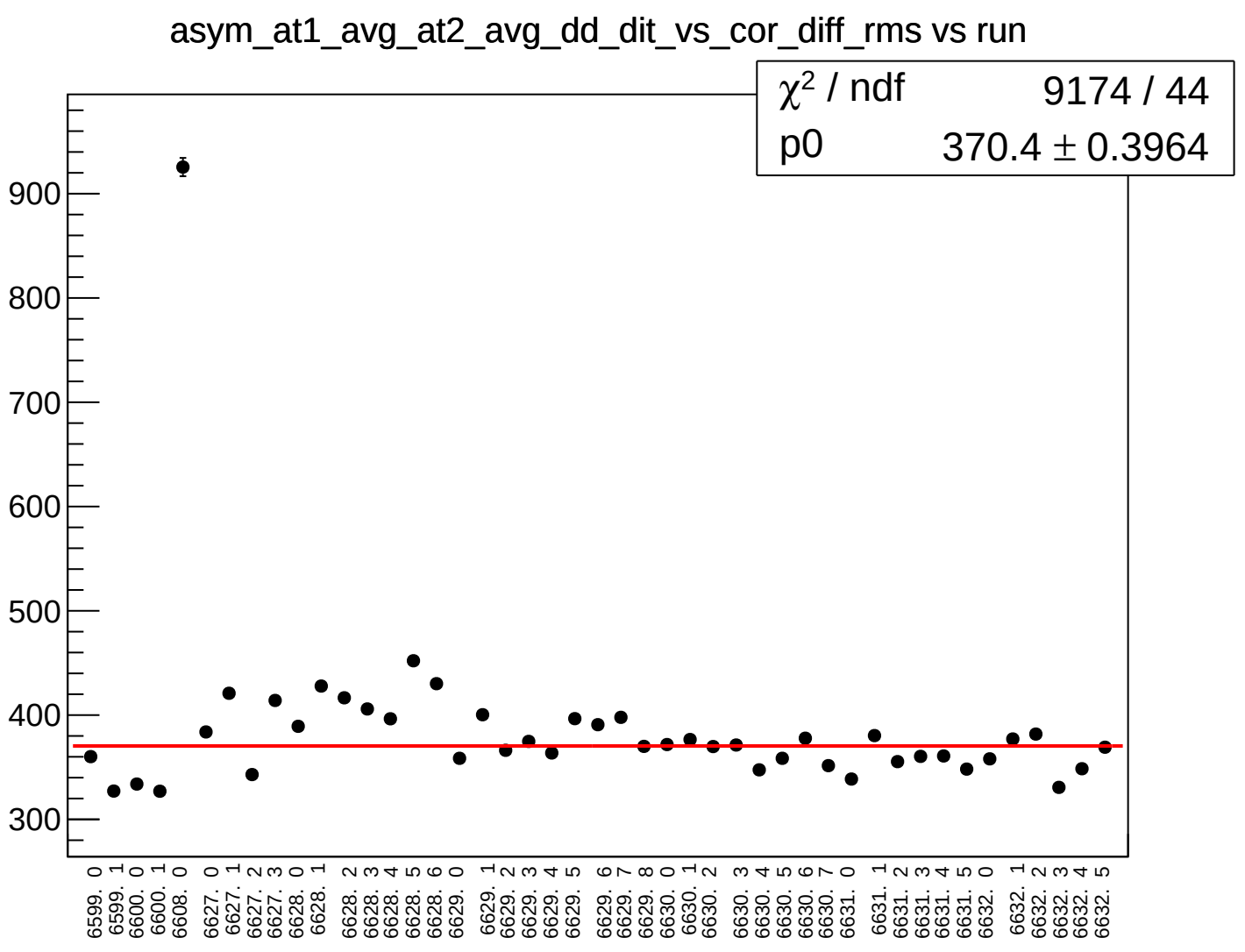
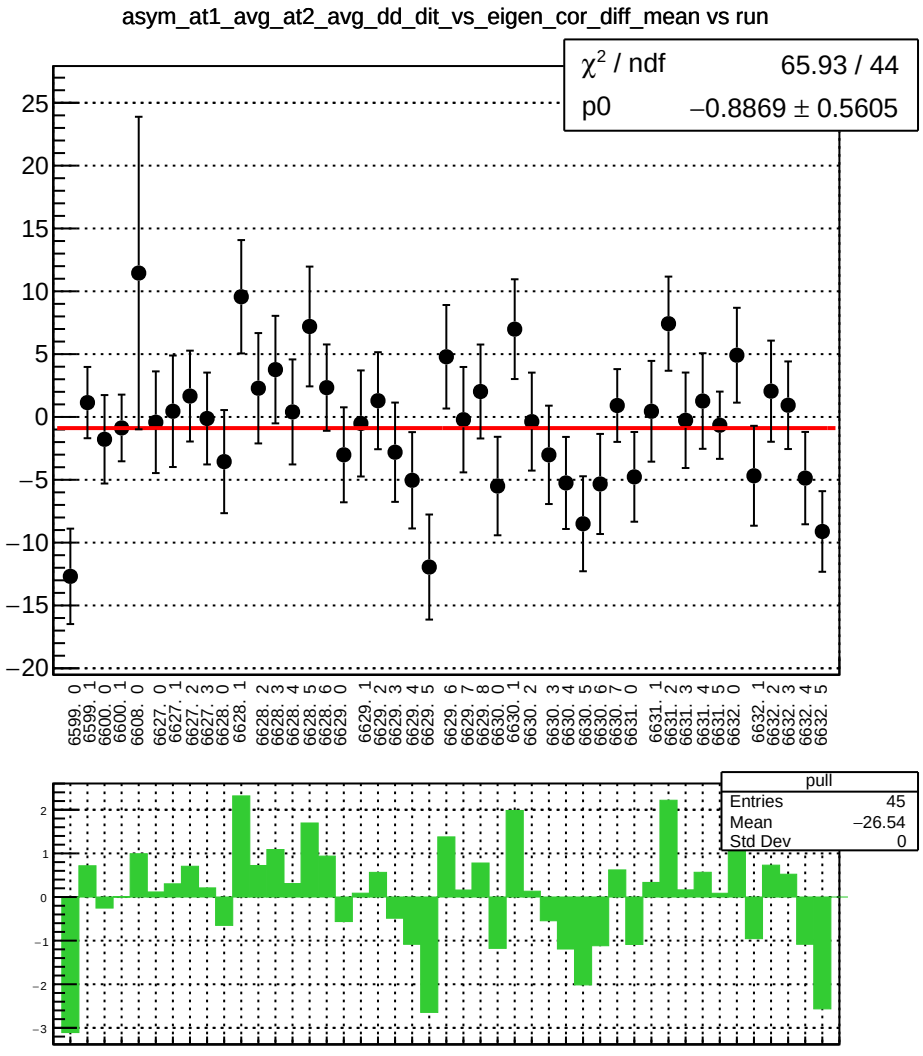
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

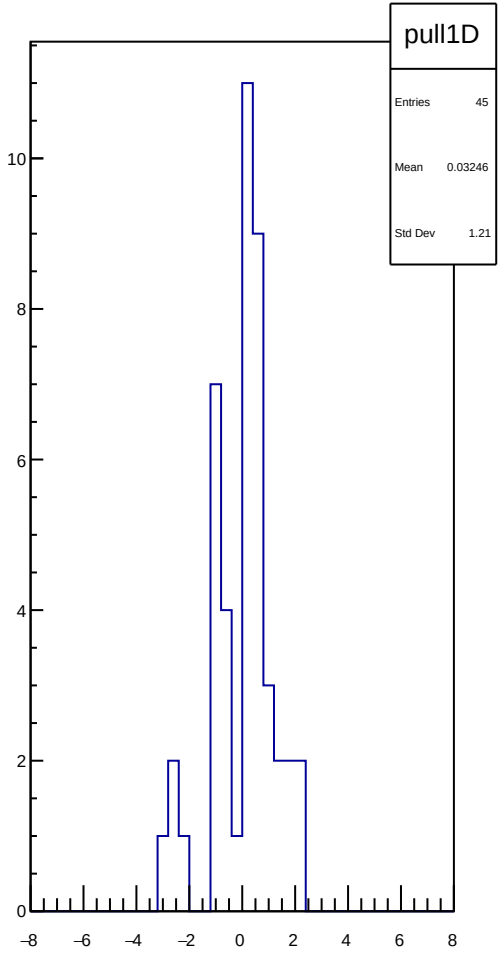

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 64.63 / 44
p0 −2.276e−13 ± 1.401e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 13.58
Std Dev 7.397
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 45
Mean −0.1798
Std Dev 1.185
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

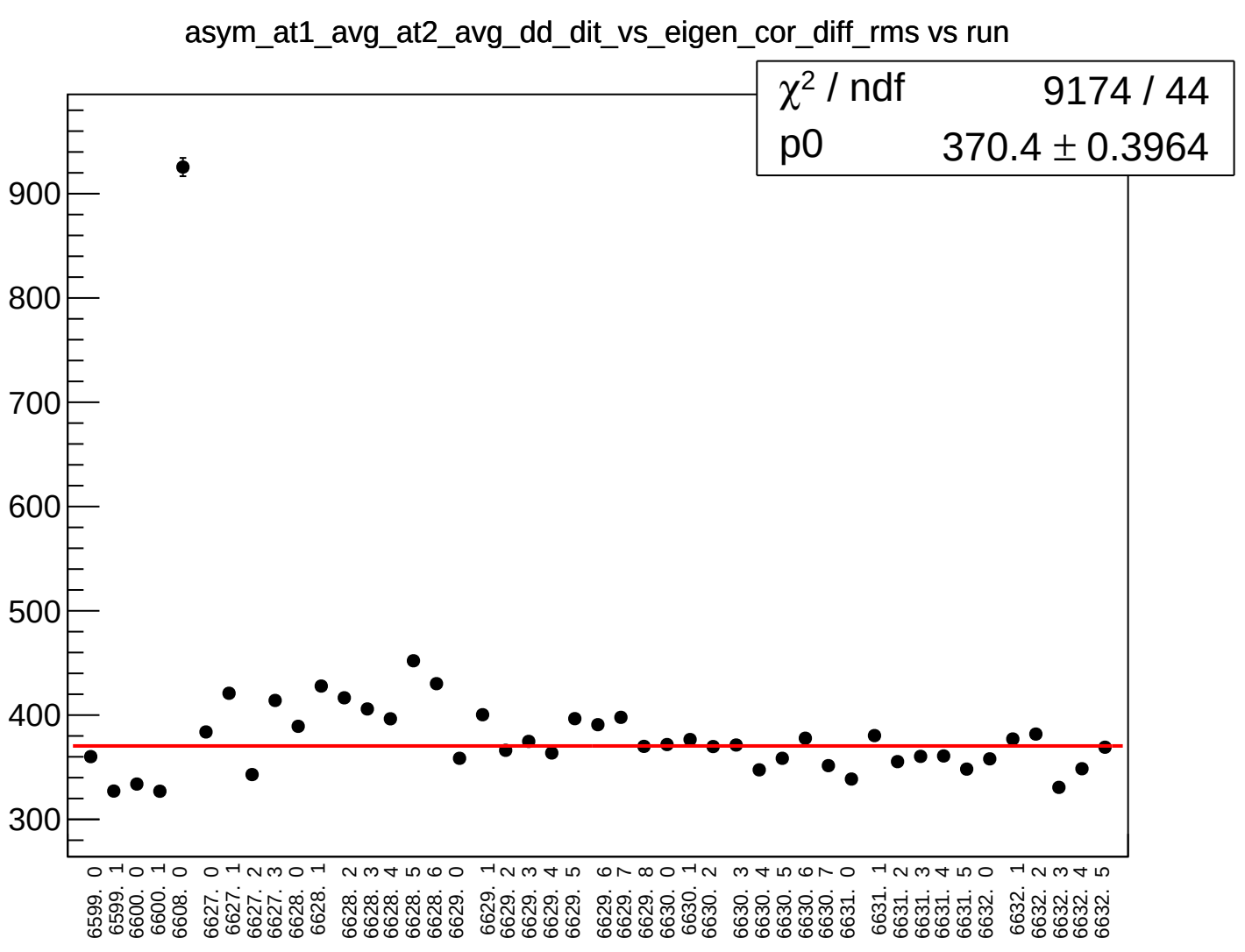

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.386e+05 / 44
p0 5.81e−11 ± 9.908e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

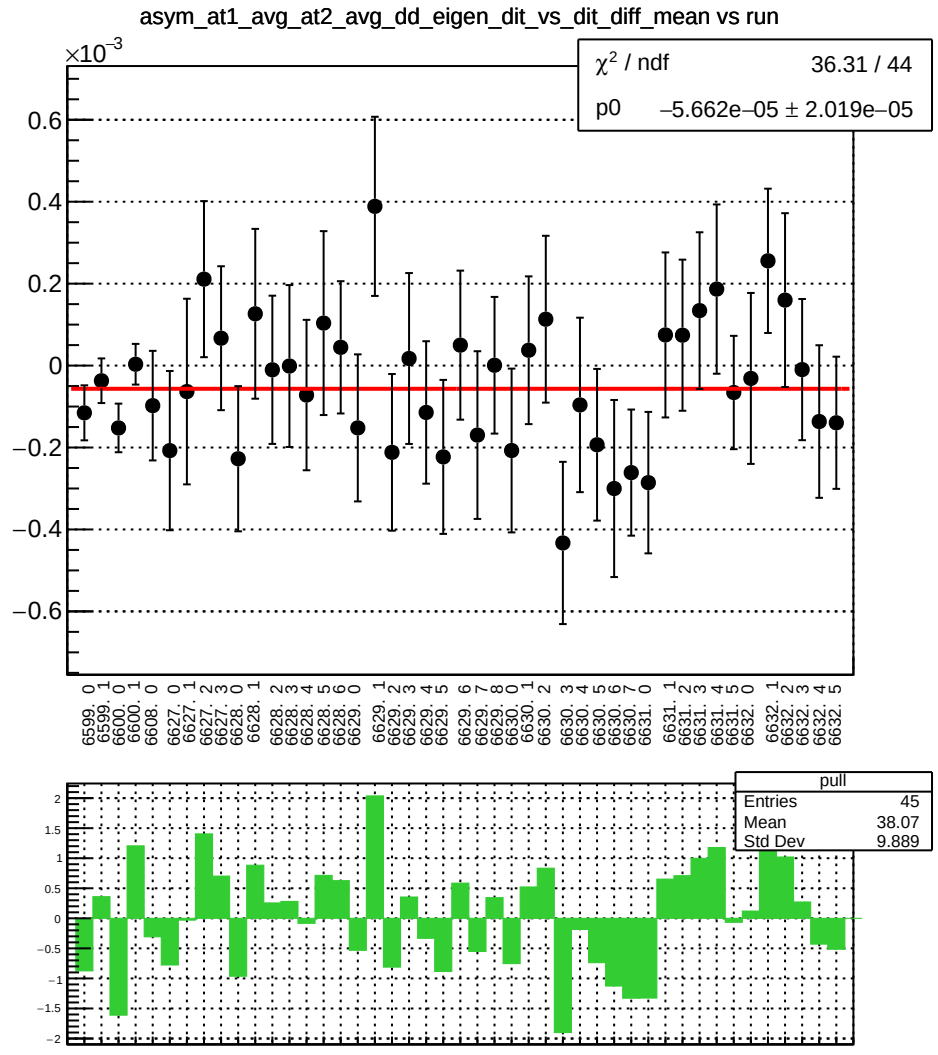

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 65.93 / 44
p0 −0.8869 ± 0.5605
pull
Entries 45
Mean −26.54
Std Dev 0
pull1D
Entries 45
Mean 0.03246
Std Dev 1.21

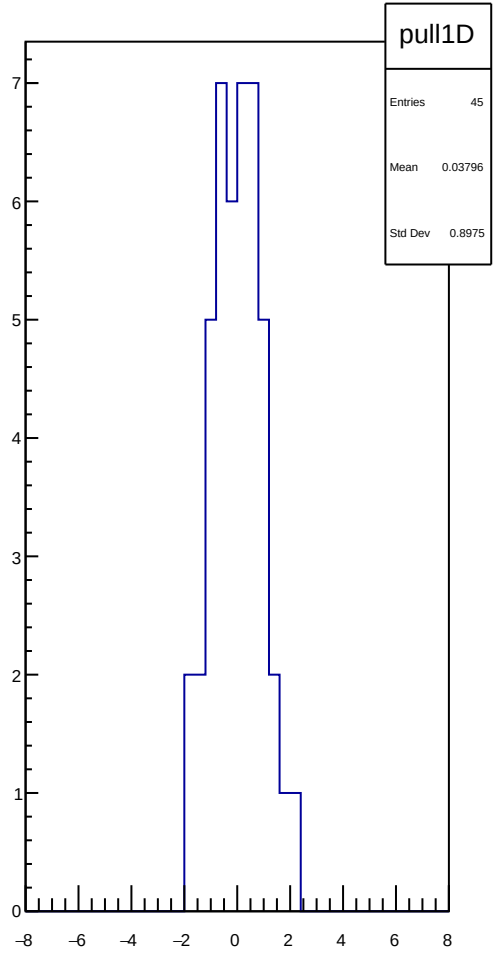

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9174 / 44
p0 370.4 ± 0.3964
900
800
700
600
500
400
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

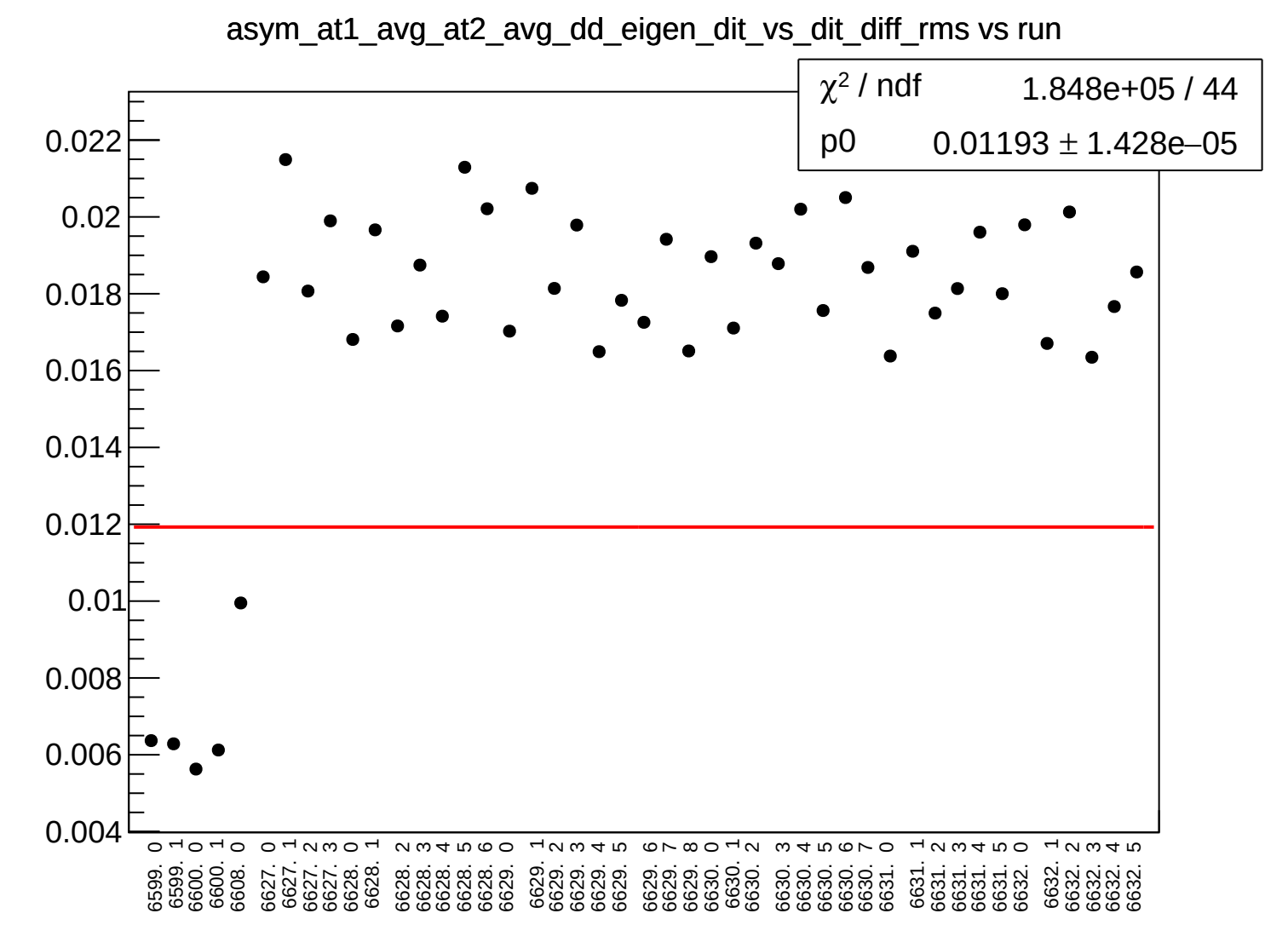

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.93 / 44
p0 −0.8869 ± 0.5605
pull
Entries 45
Mean −26.54
Std Dev 0


pull1D
Entries 45
Mean 0.03246
Std Dev 1.21


asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9174 / 44
p0 370.4 ± 0.3964
900
800
700
600
500
400
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 36.31 / 44
p0 −5.662e−05 ± 2.019e−05
pull
Entries 45
Mean 38.07
Std Dev 9.889


pull1D
Entries 45
Mean 0.03796
Std Dev 0.8975


asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.848e+05 / 44
p0 0.01193 ± 1.428e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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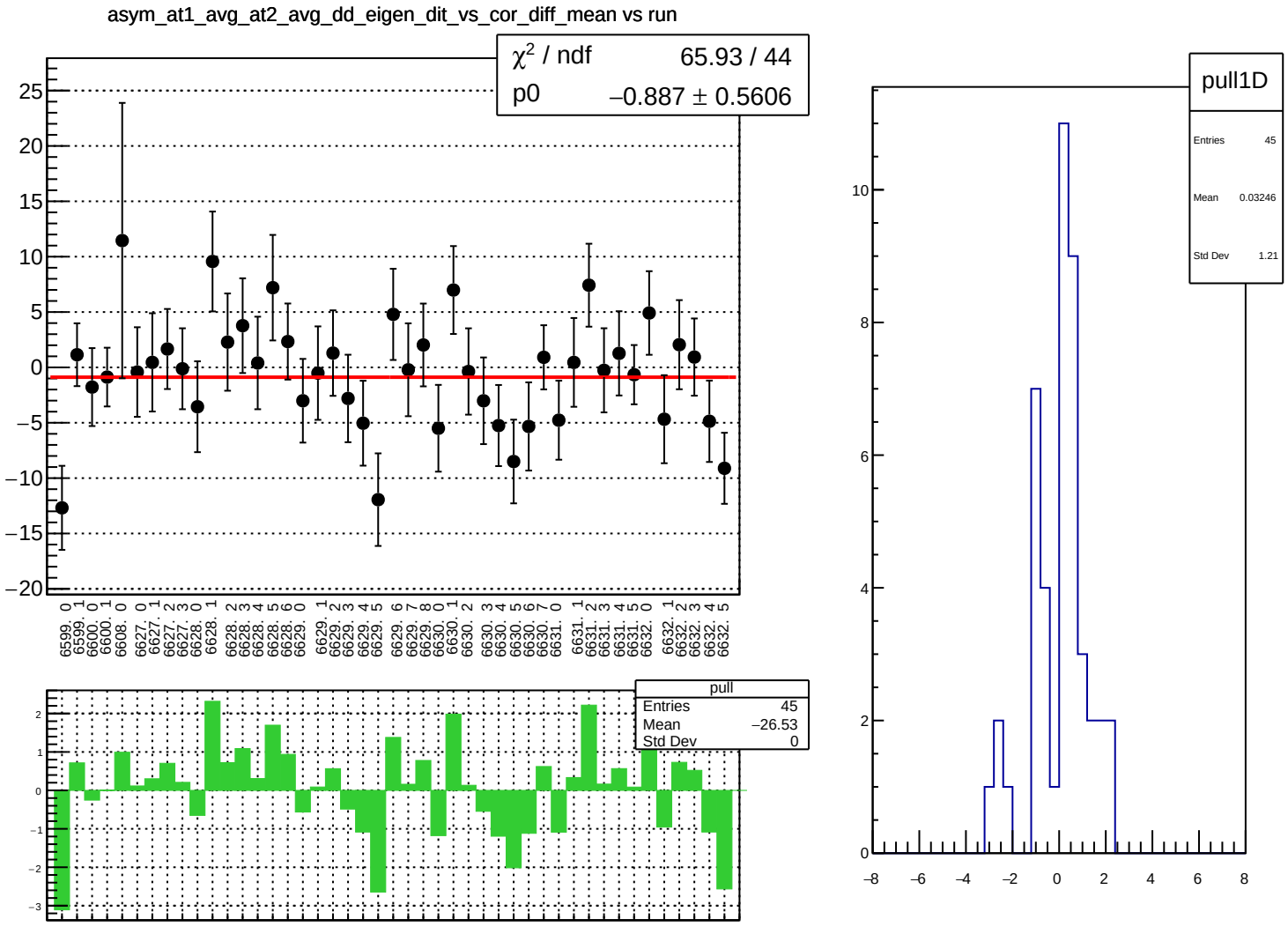
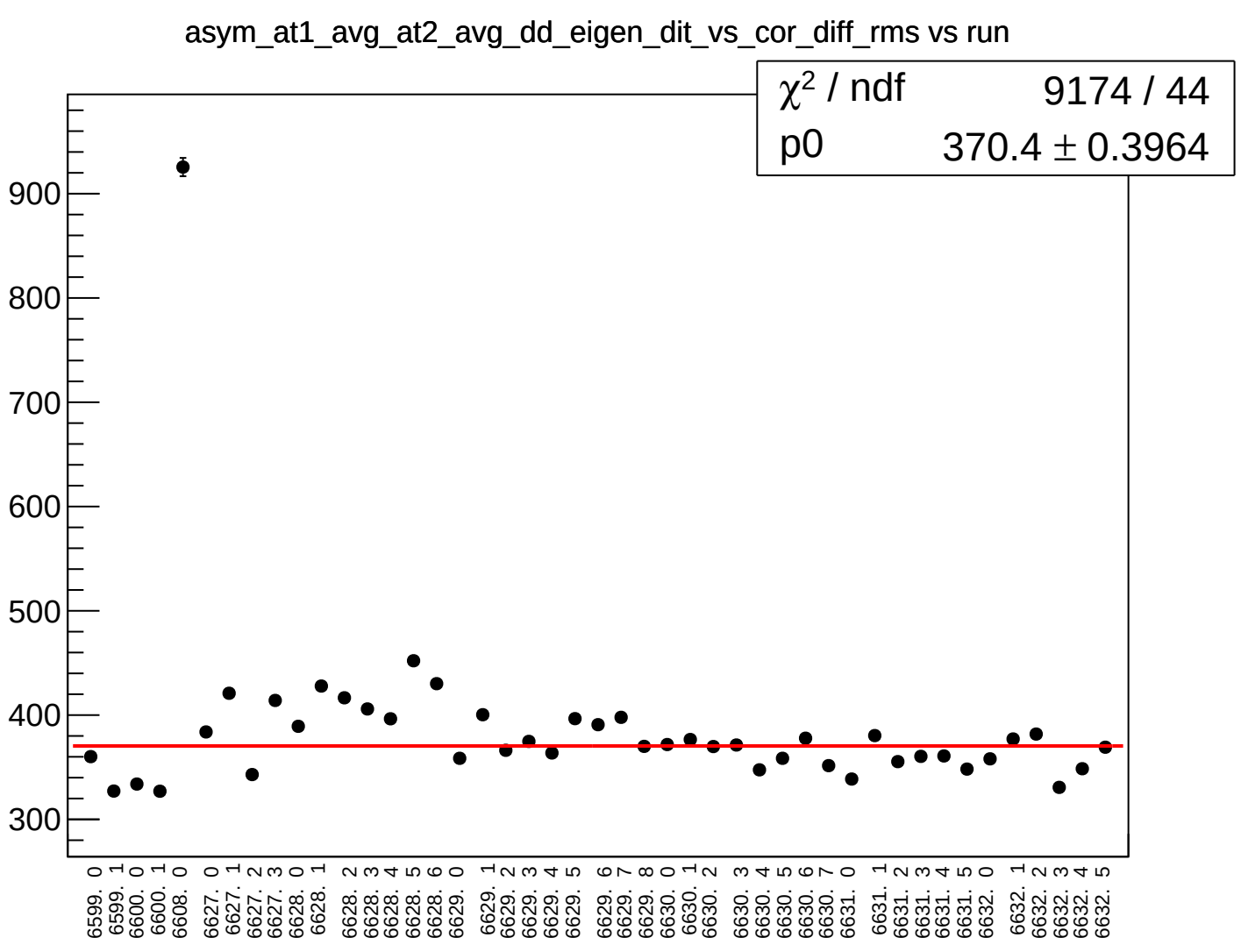
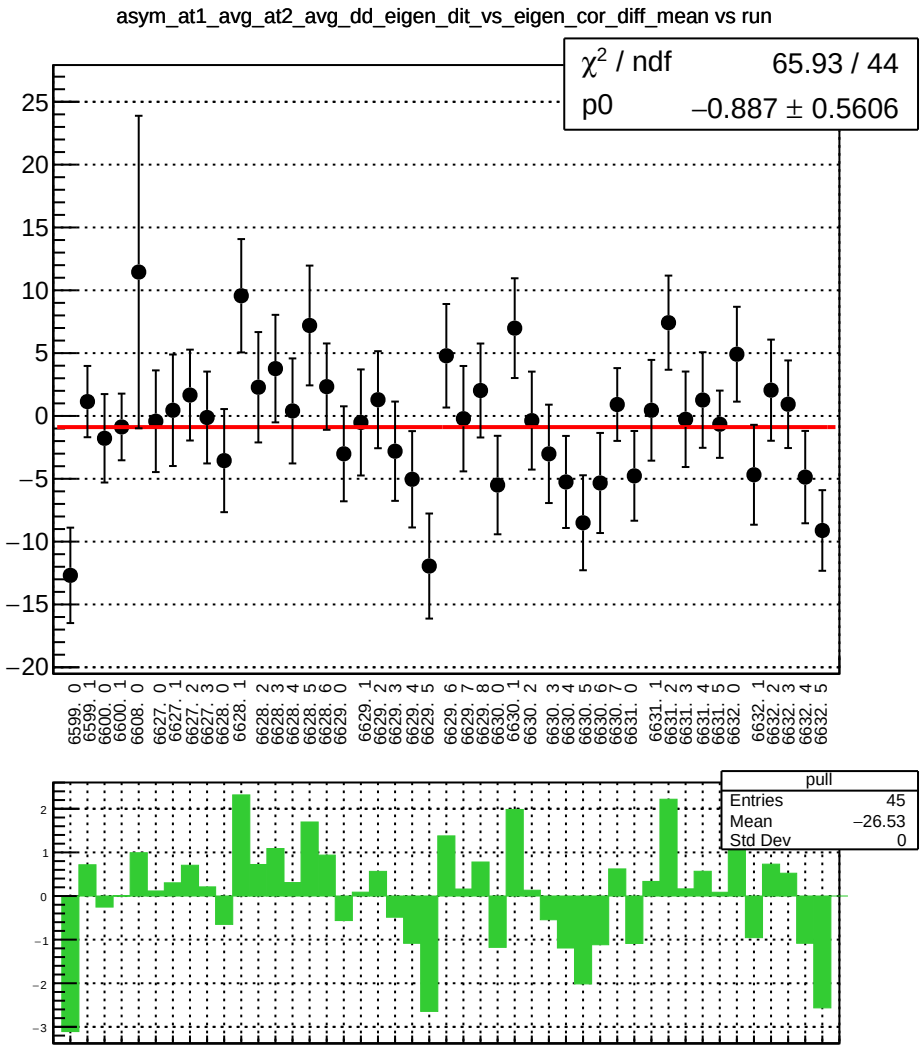
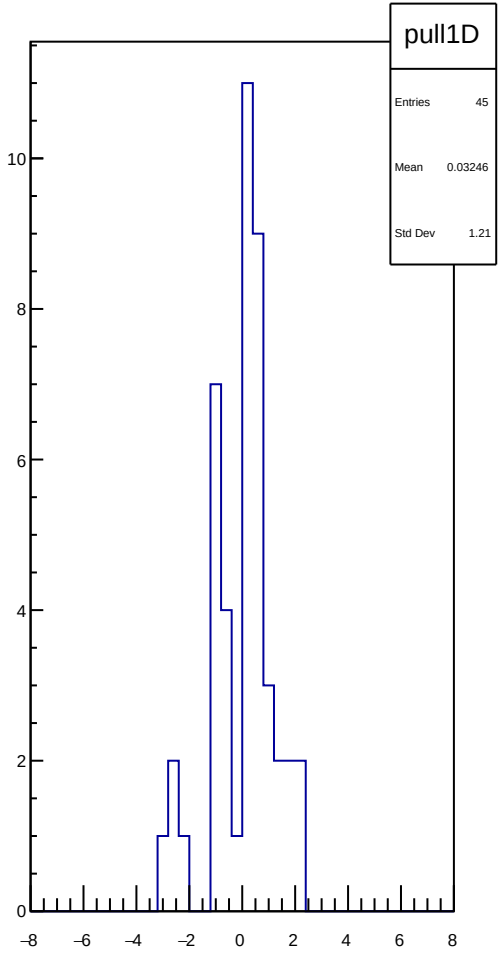
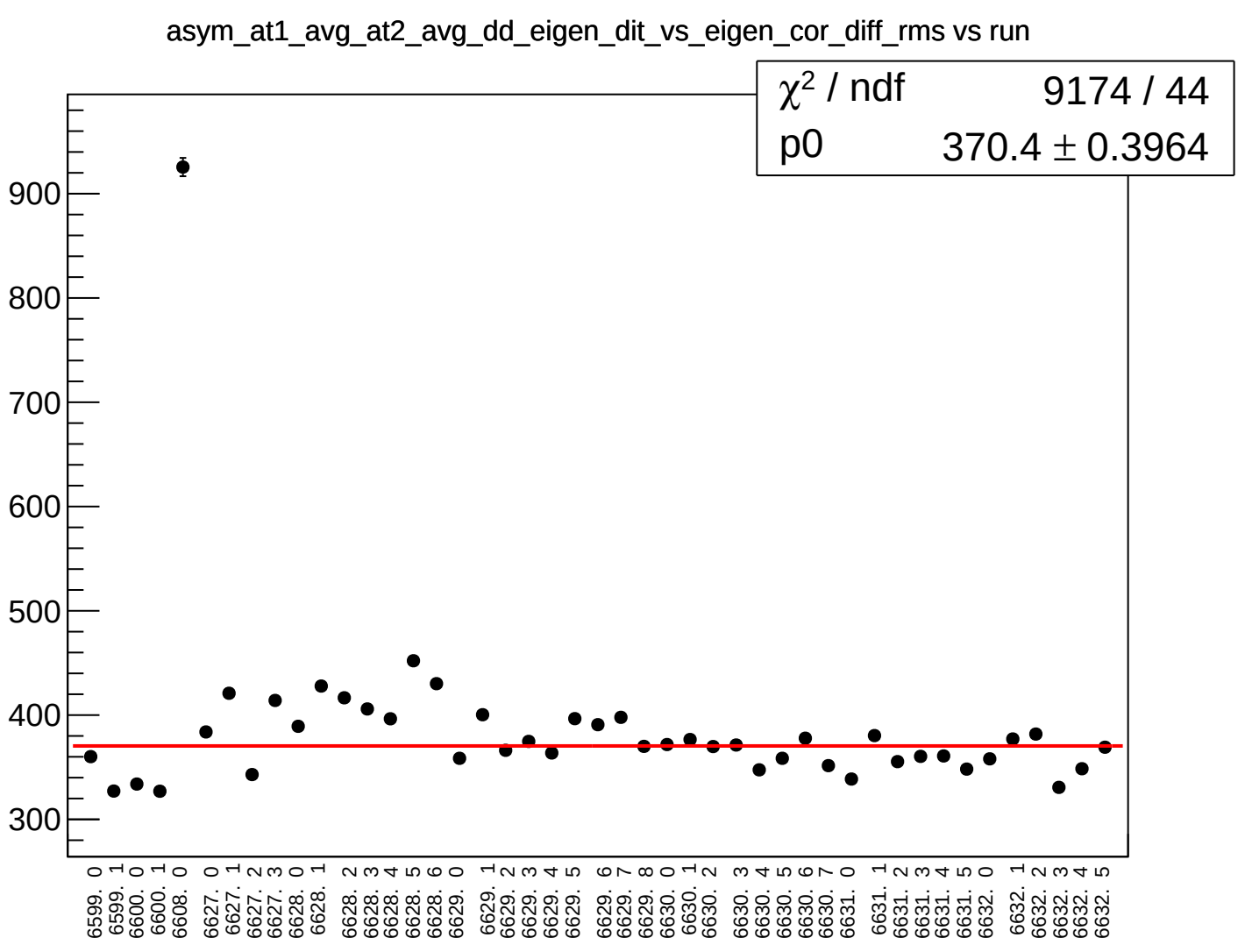
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65.93 / 44
p0 −0.887 ± 0.5606
pull
Entries 45
Mean −26.53
Std Dev 0
pull1D
Entries 45
Mean 0.03246
Std Dev 1.21


asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9174 / 44
p0 370.4 ± 0.3964
900
800
700
600
500
400
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.93 / 44
p0 −0.887 ± 0.5606
pull
Entries 45
Mean −26.53
Std Dev 0


pull1D
Entries 45
Mean 0.03246
Std Dev 1.21


asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9174 / 44
p0 370.4 ± 0.3964
900
800
700
600
500
400
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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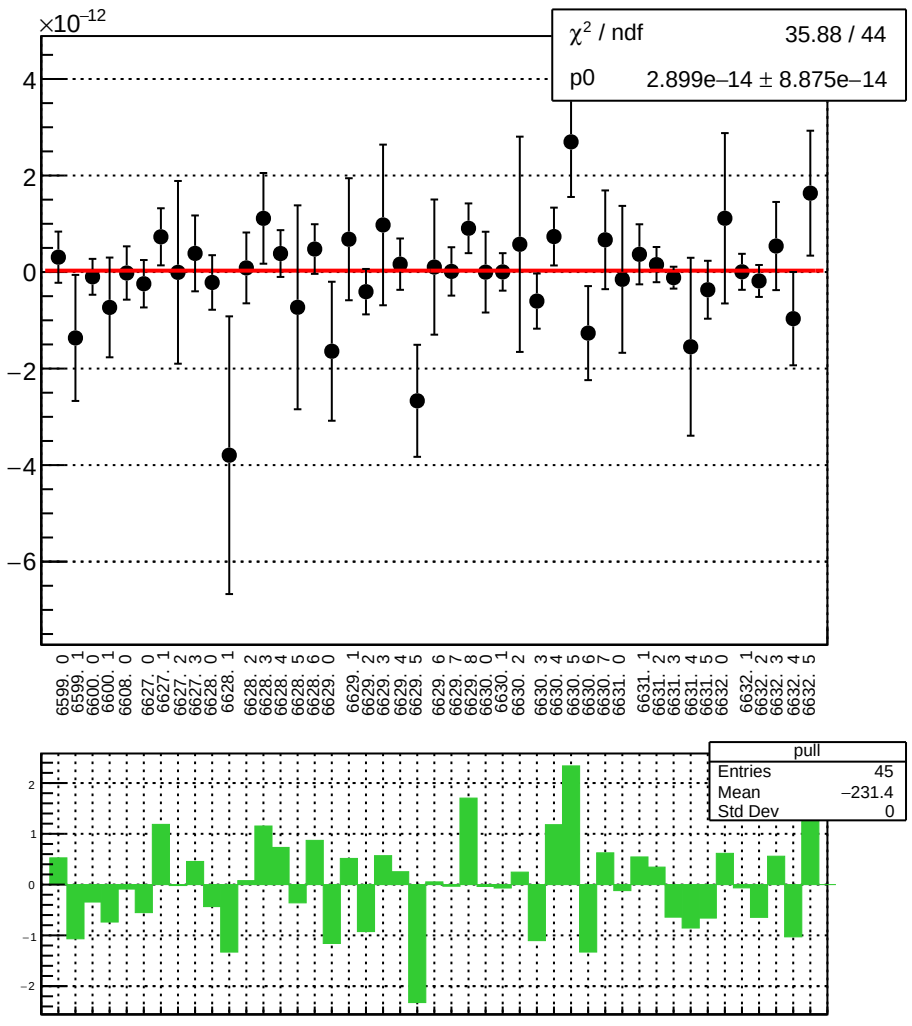
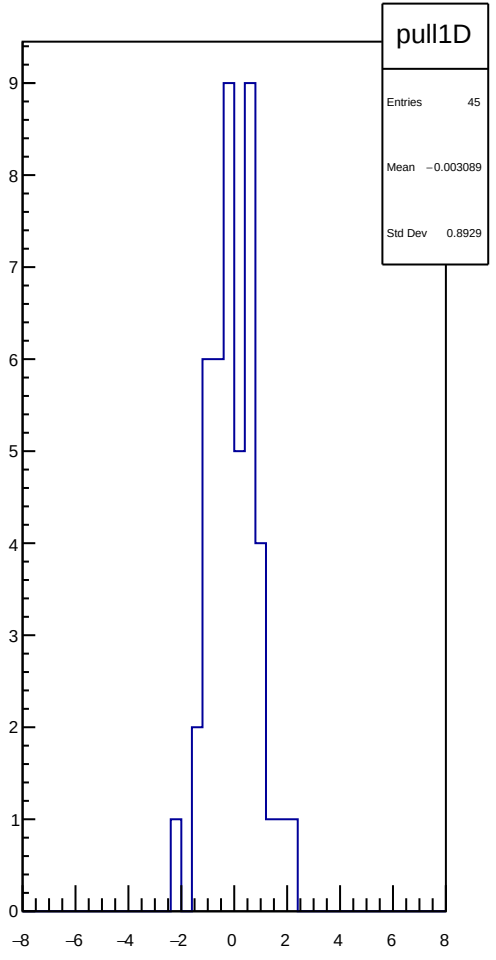
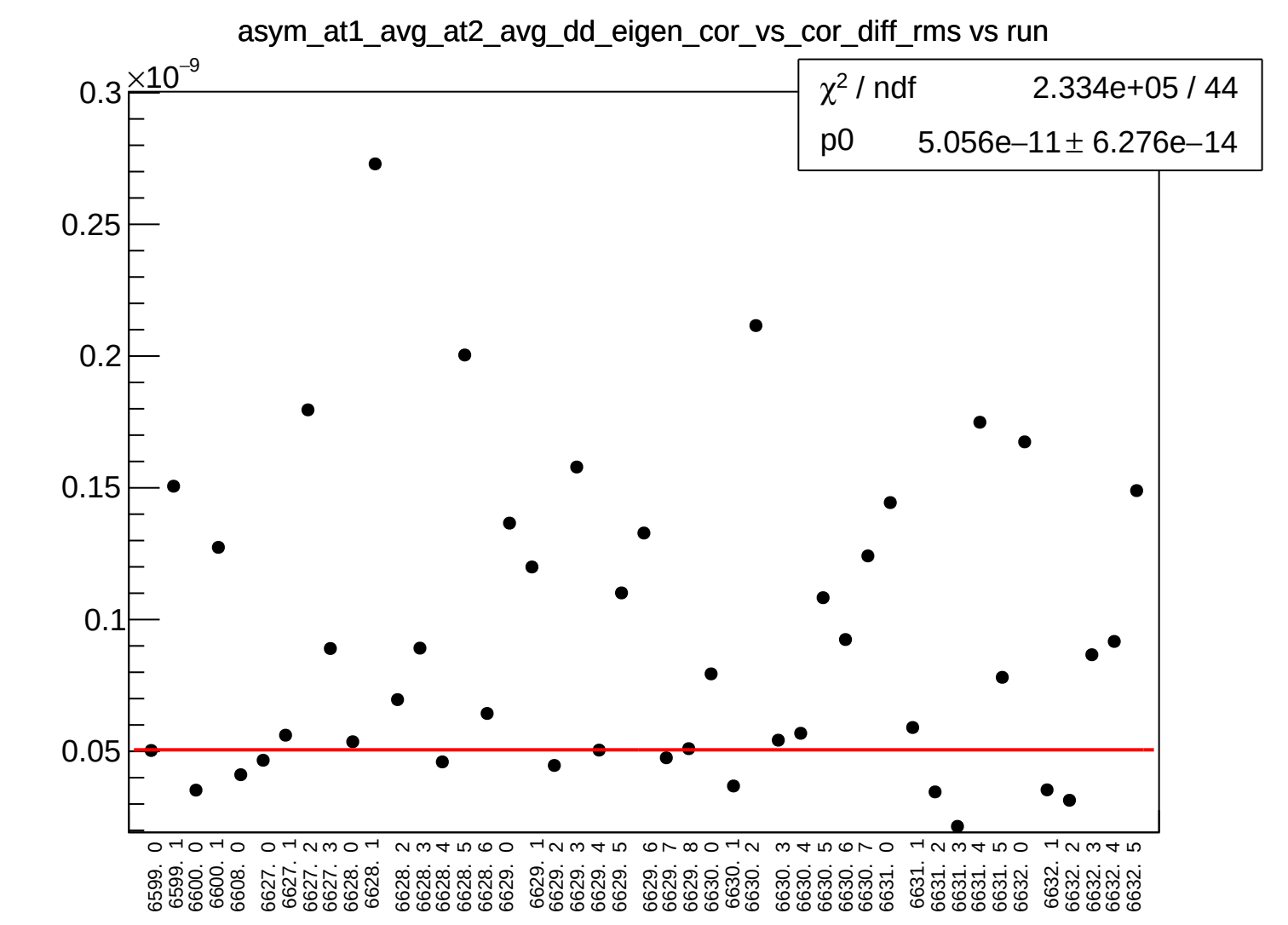
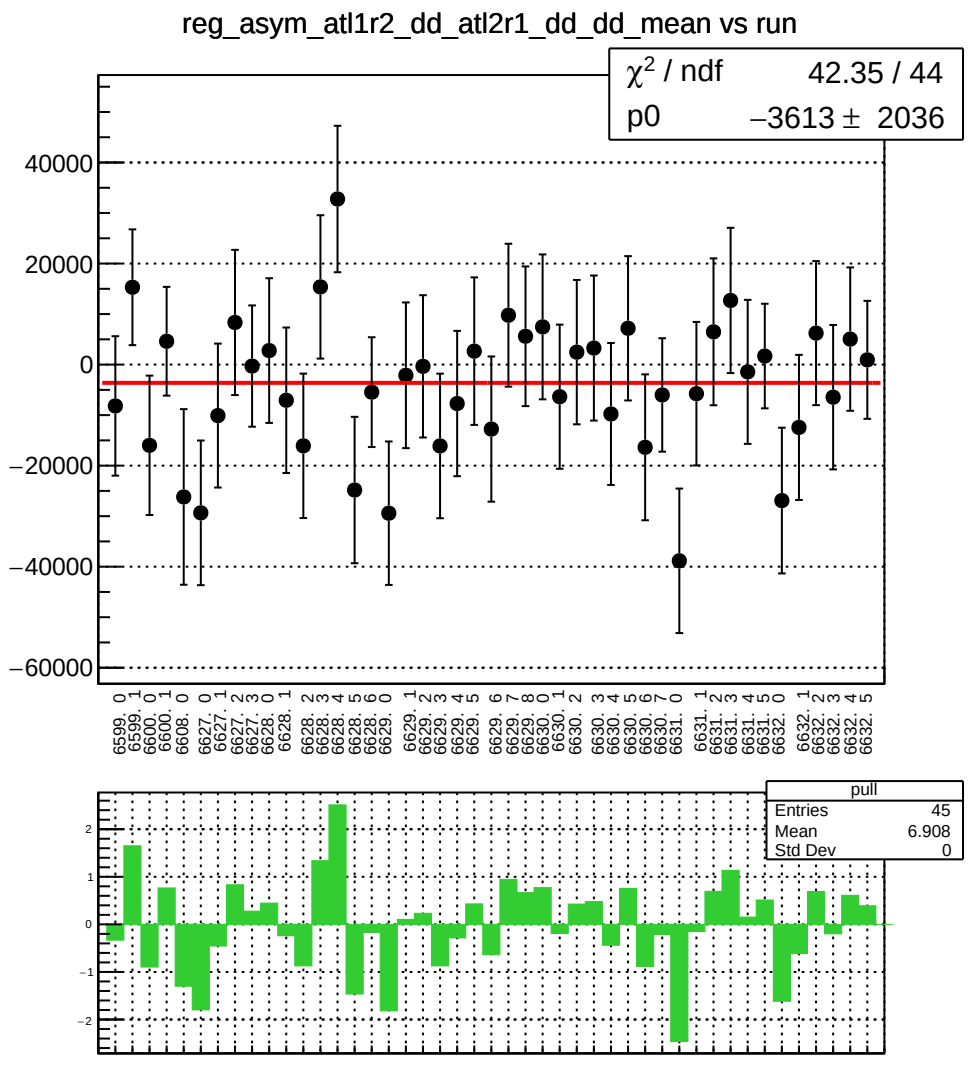
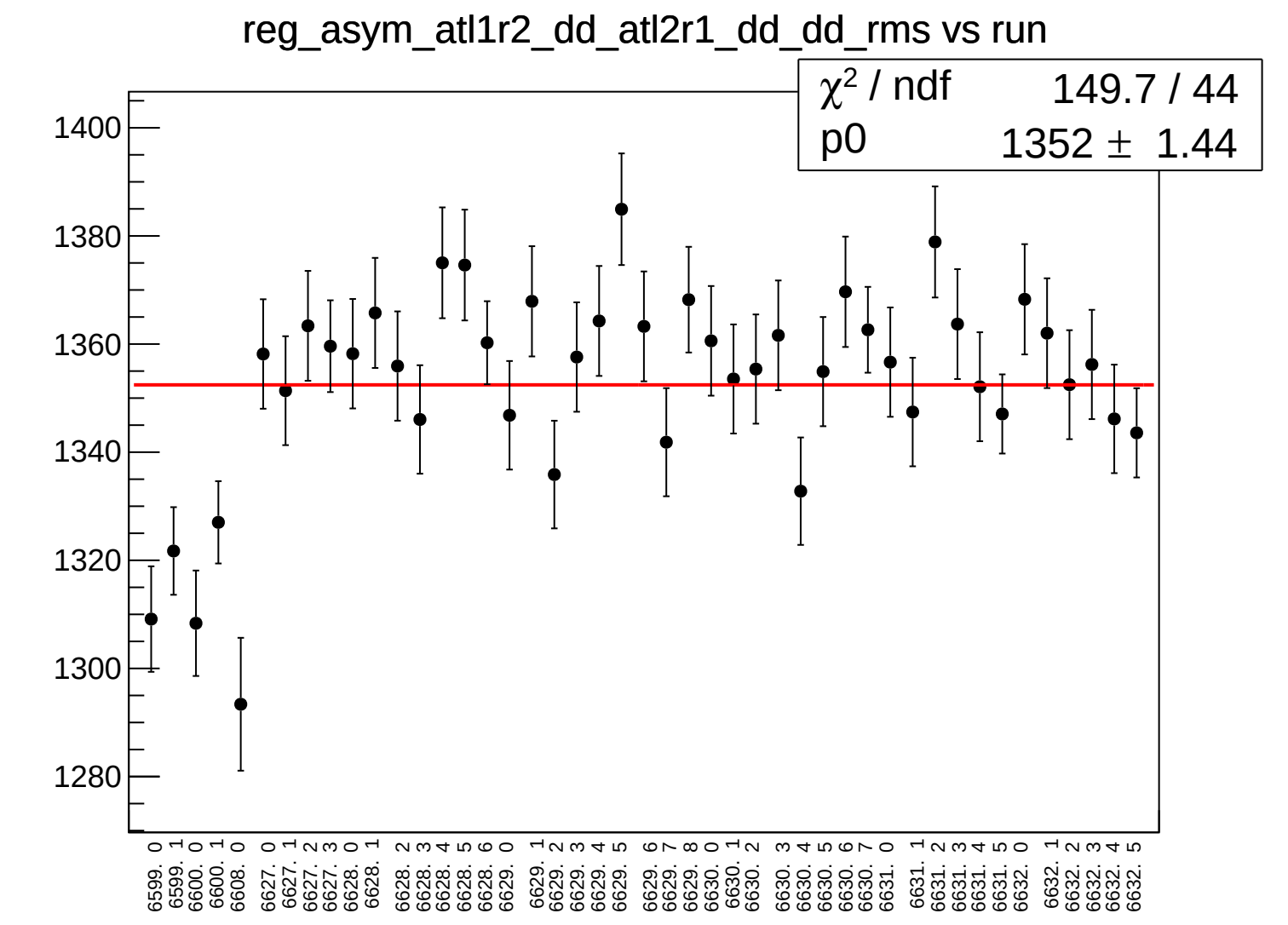
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 35.88 / 44
p0 2.899e−14 ± 8.875e−14
pull
Entries 45
Mean −231.4
Std Dev 0


pull1D
Entries 45
Mean −0.003089
Std Dev 0.8929


asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.334e+05 / 44
p0 5.056e−11 ± 6.276e−14
0.3
0.25
0.2
0.15
0.1
0.05
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 42.35 / 44
p0 −3613 ± 2036
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 6.908
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02411
Std Dev 0.9698
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 149.7 / 44
p0 1352 ± 1.44
1400
1380
1360
1340
1320
1300
1280
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
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6629. 7
6629. 8
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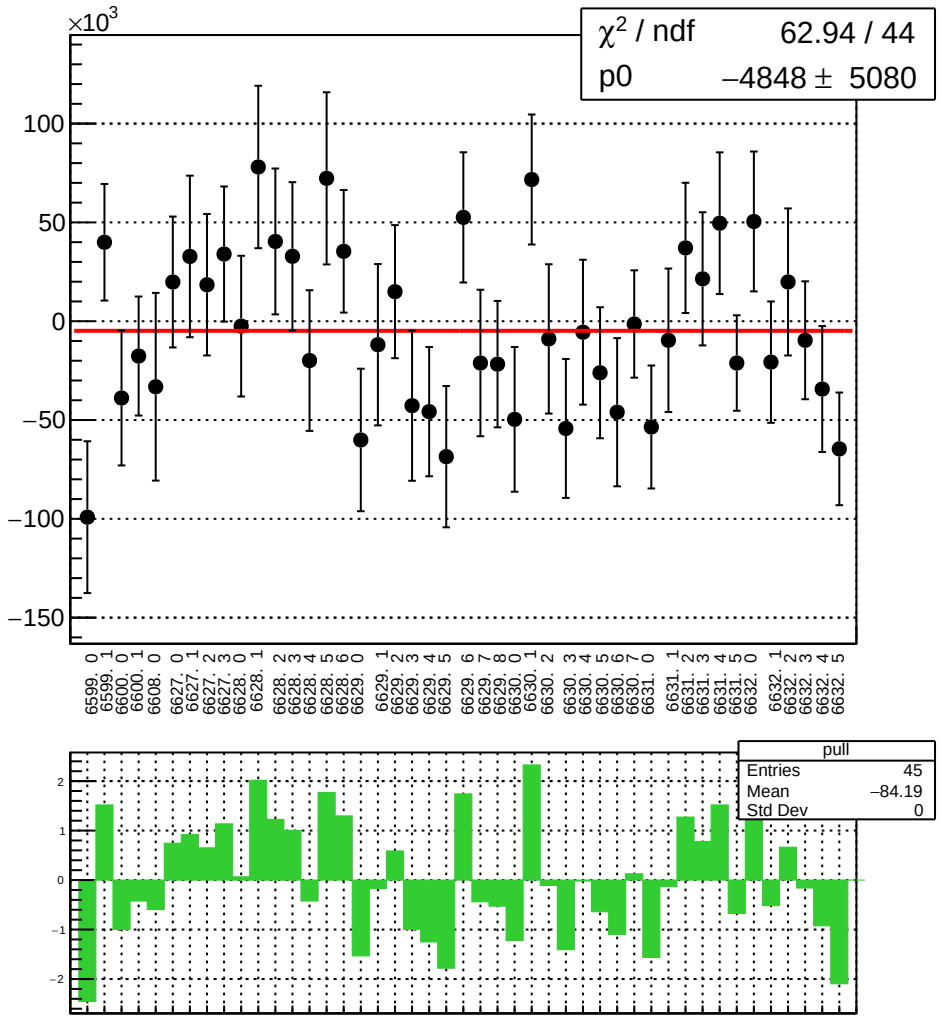
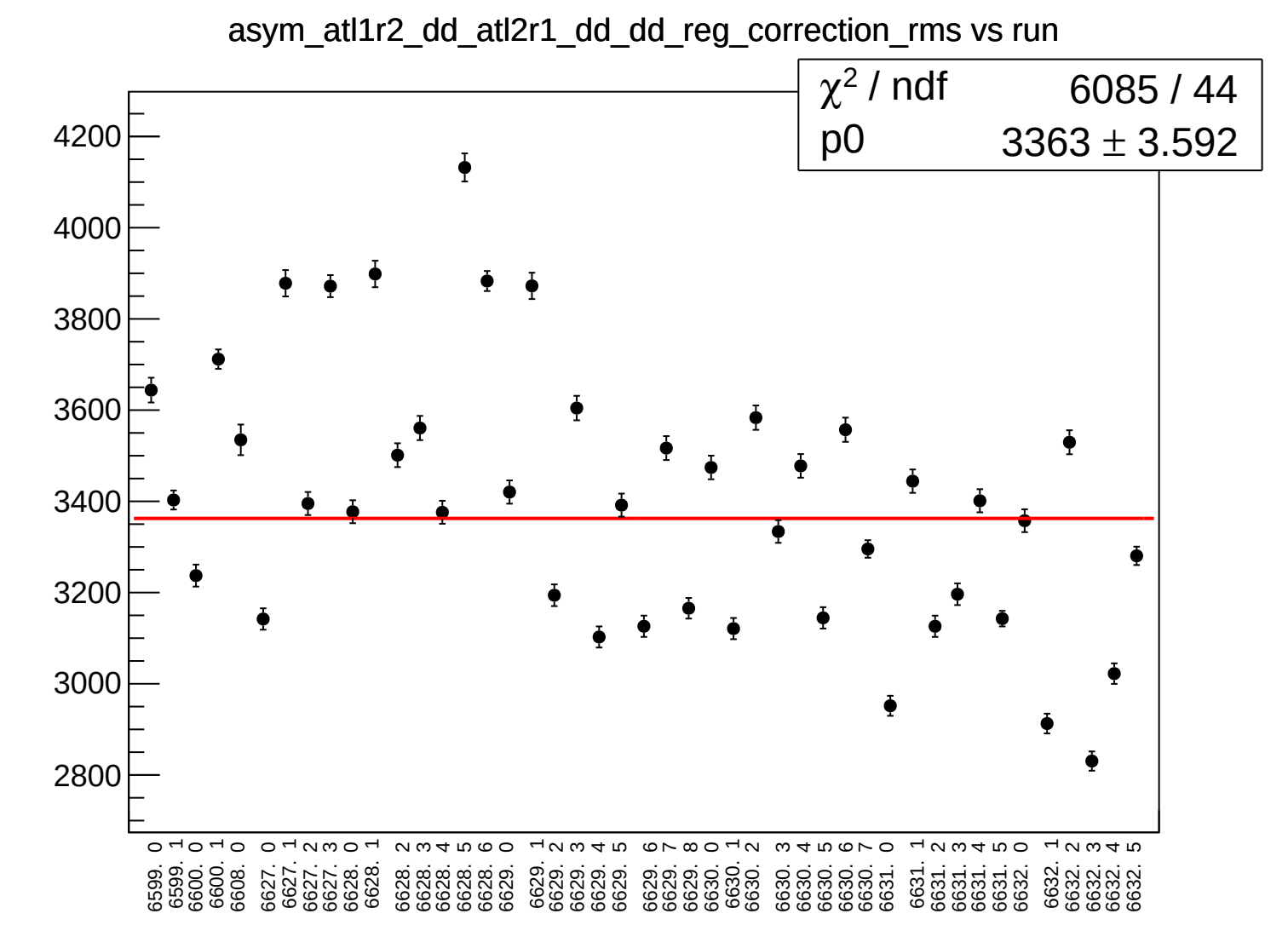
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 62.94 / 44
p0 −4848 ± 5080
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −84.19
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01712
Std Dev 1.183
8
7
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 6085 / 44
p0 3363 ± 3.592
4200
4000
3800
3600
3400
3200
3000
2800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
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6630. 0
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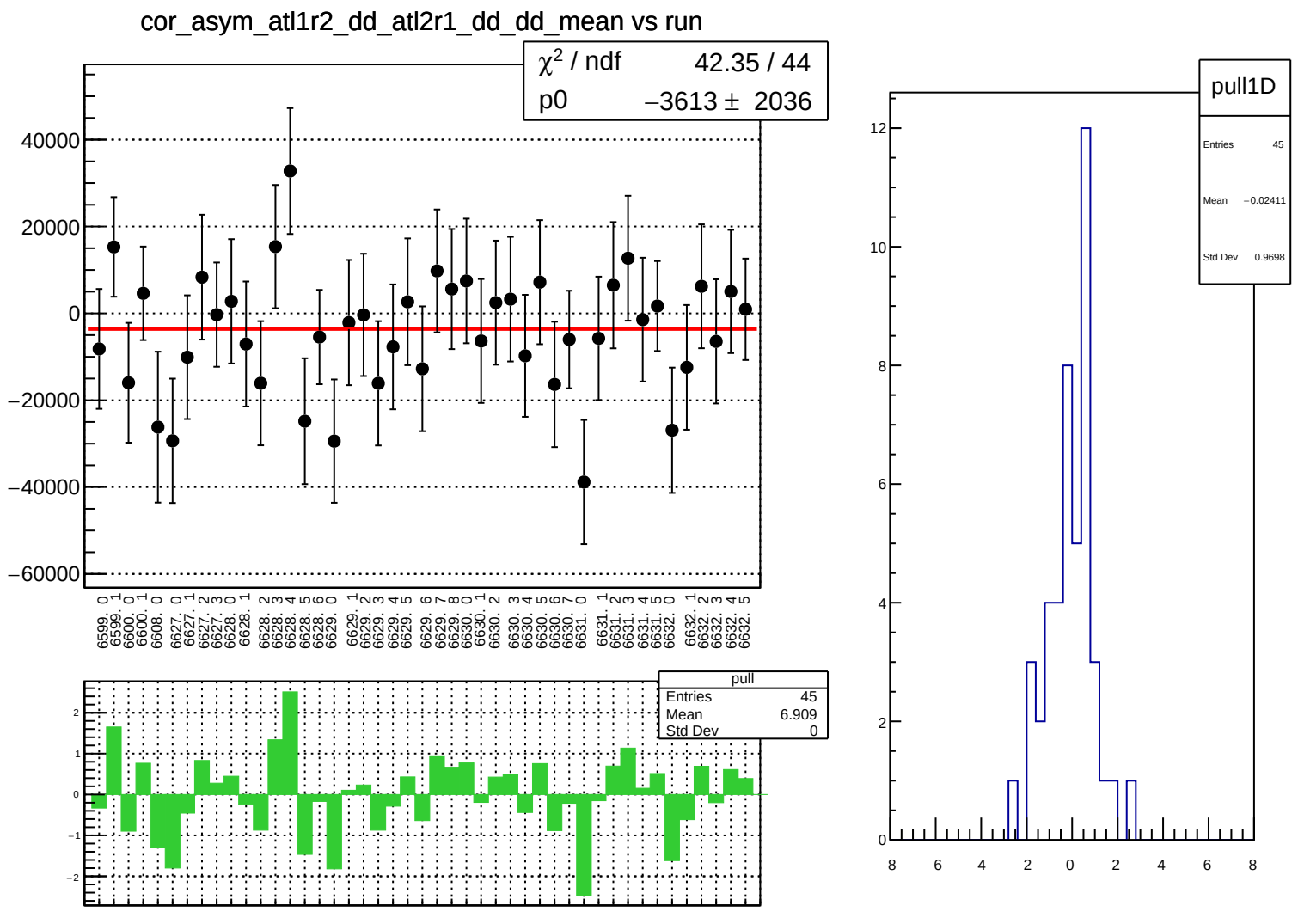
cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 42.35 / 44
p0 −3613 ± 2036
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
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6631. 2
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6631. 5
6632. 0
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6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 6.909
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02411
Std Dev 0.9698
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−4
−2
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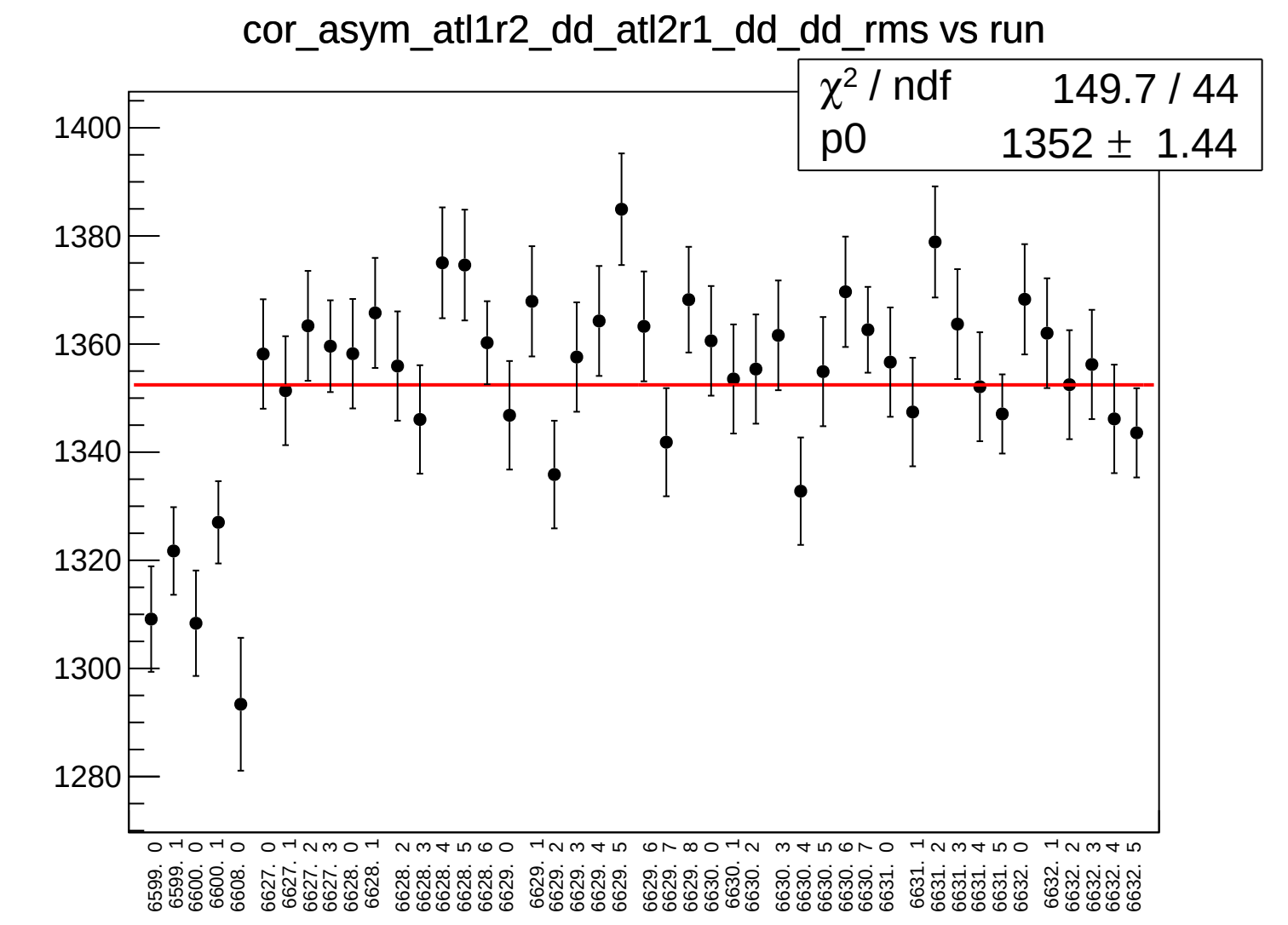
cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 149.7 / 44
p0 1352 ± 1.44
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1340
1320
1300
1280
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6600. 1
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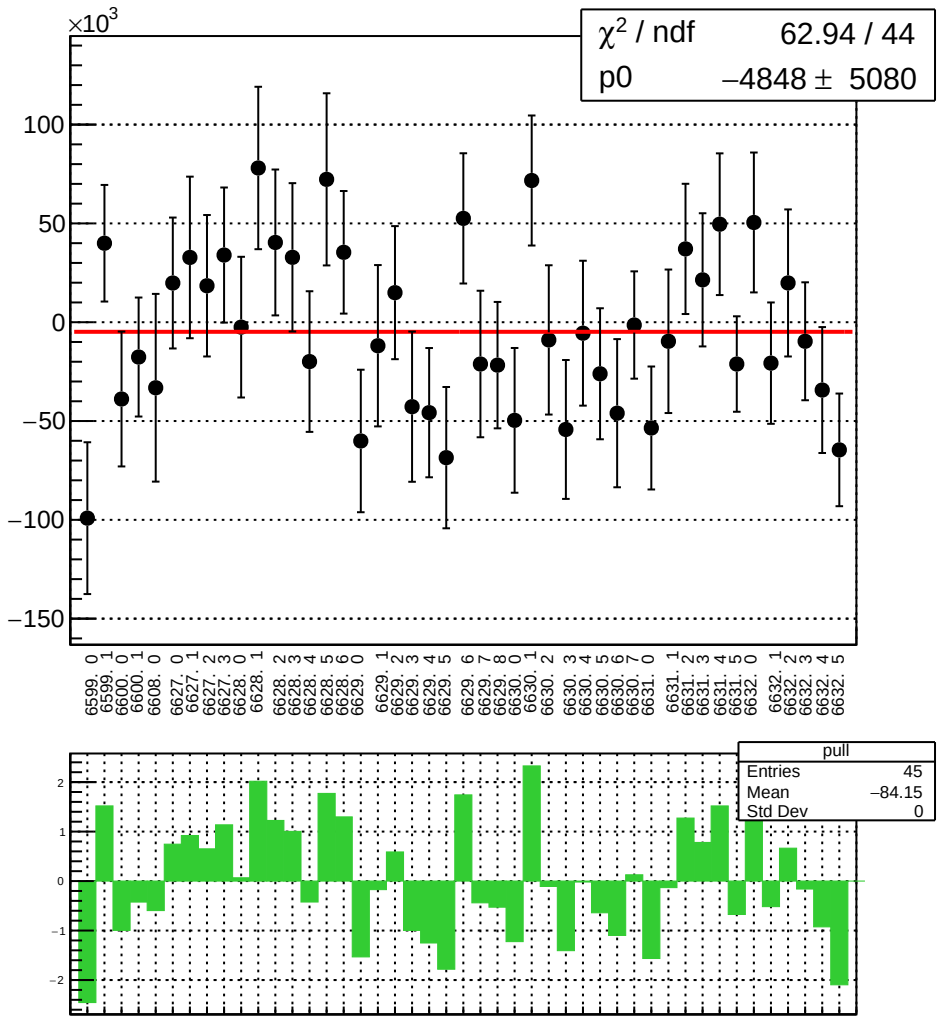
asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 62.94 / 44
p0 −4848 ± 5080
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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6632. 0
6632. 1
6632. 2
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pull
Entries 45
Mean −84.15
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01713
Std Dev 1.183
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−4
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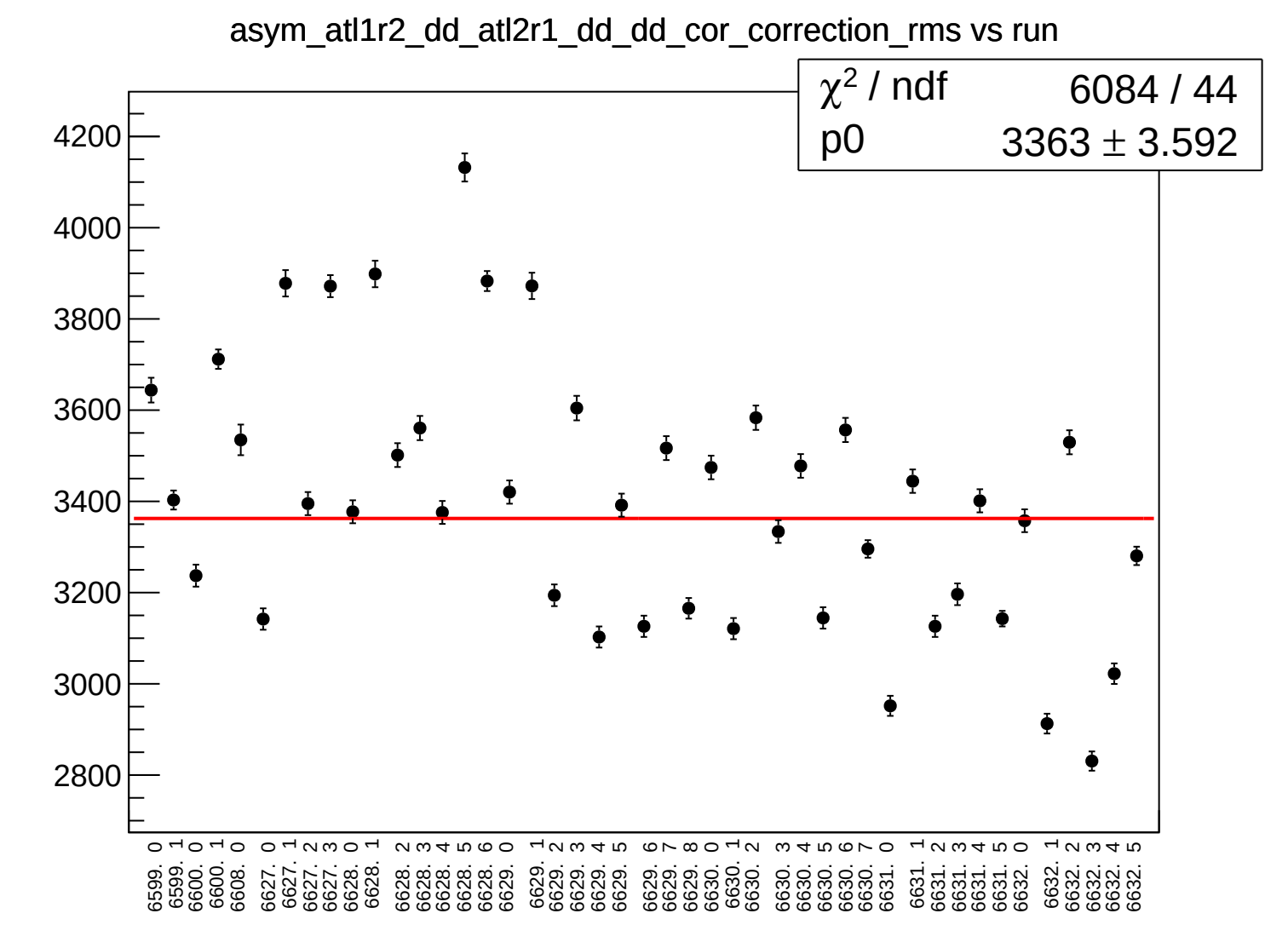
asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 6084 / 44
p0 3363 ± 3.592
4200
4000
3800
3600
3400
3200
3000
2800
6599. 0
6599. 1
6600. 0
6600. 1
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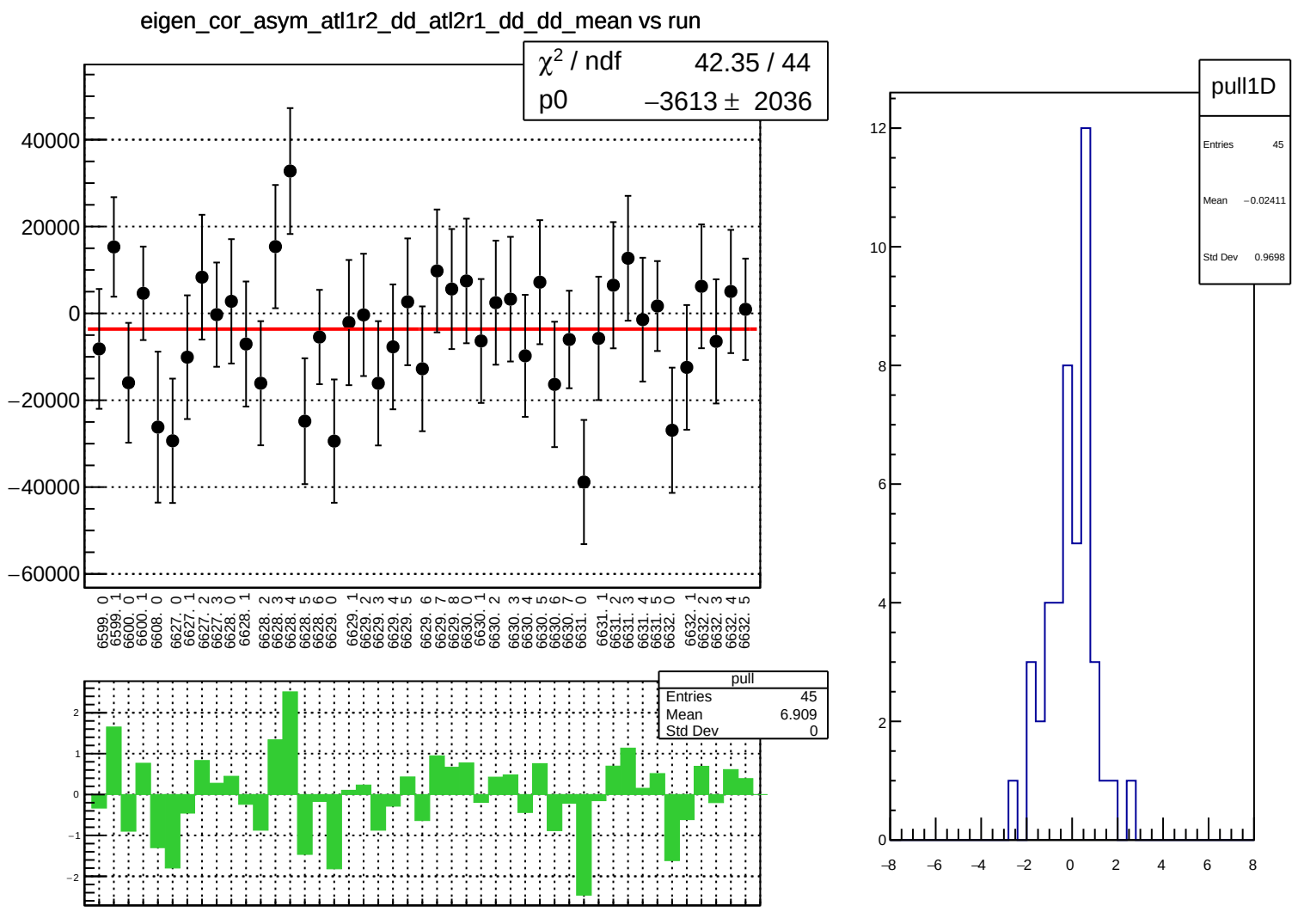
eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 42.35 / 44
p0 −3613 ± 2036
40000
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−20000
−40000
−60000
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6599. 1
6600. 0
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6632. 0
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6632. 4
6632. 5
pull
Entries 45
Mean 6.909
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02411
Std Dev 0.9698
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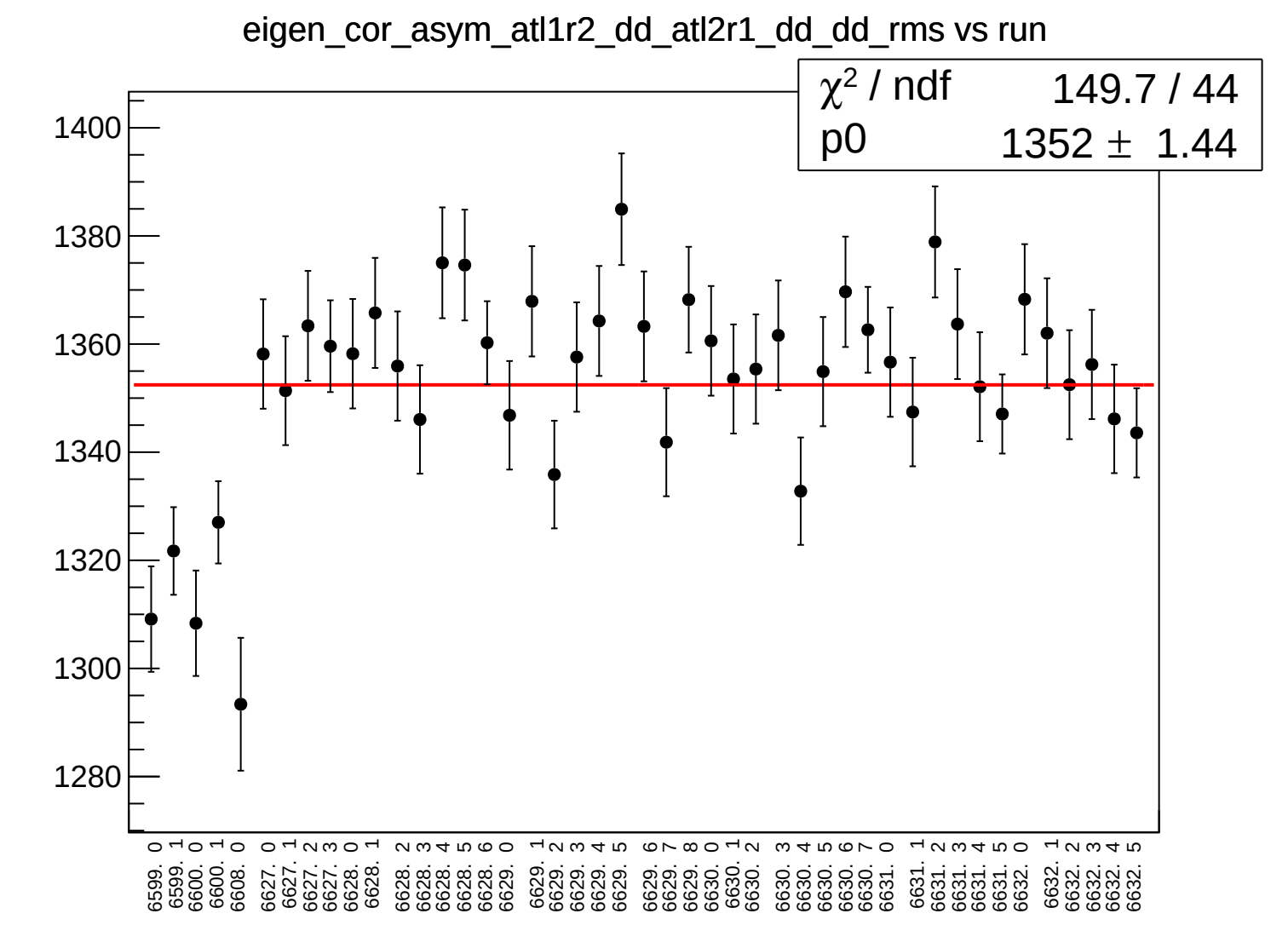
eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 149.7 / 44
p0 1352 ± 1.44
1400
1380
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6599. 0
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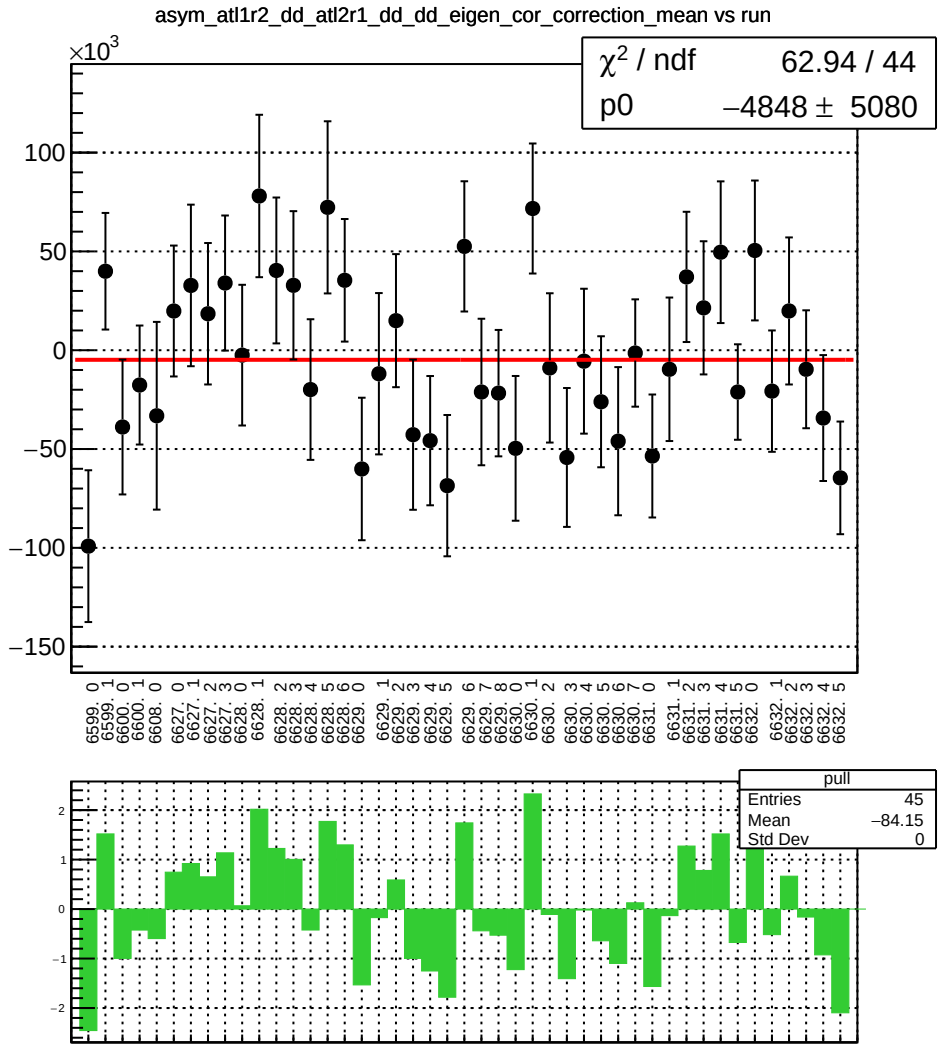
asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 62.94 / 44
p0 −4848 ± 5080
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
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pull
Entries 45
Mean −84.15
Std Dev 0
2
1
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pull1D
Entries 45
Mean 0.01713
Std Dev 1.183
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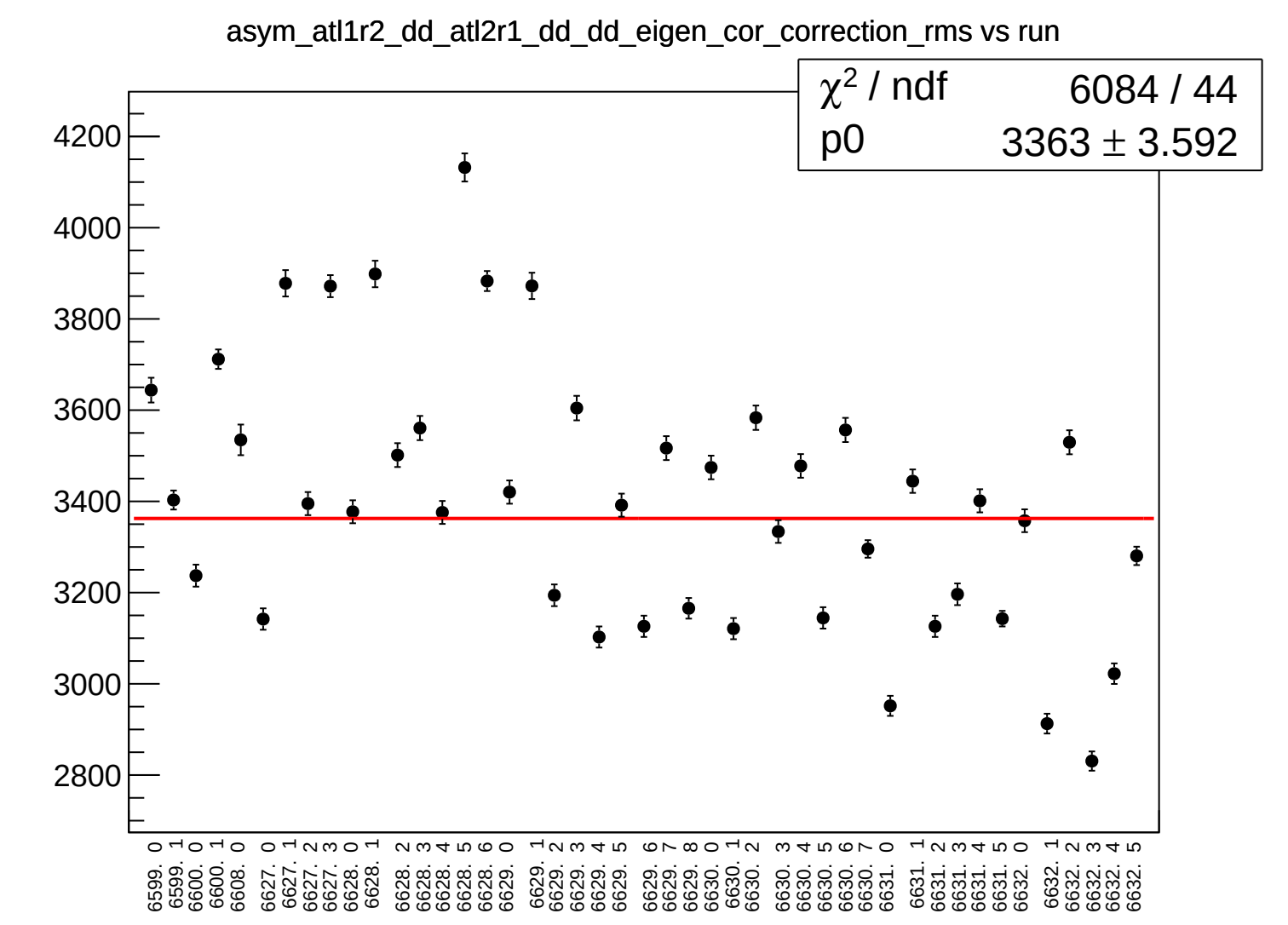
asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 6084 / 44
p0 3363 ± 3.592
4200
4000
3800
3600
3400
3200
3000
2800
6599. 0
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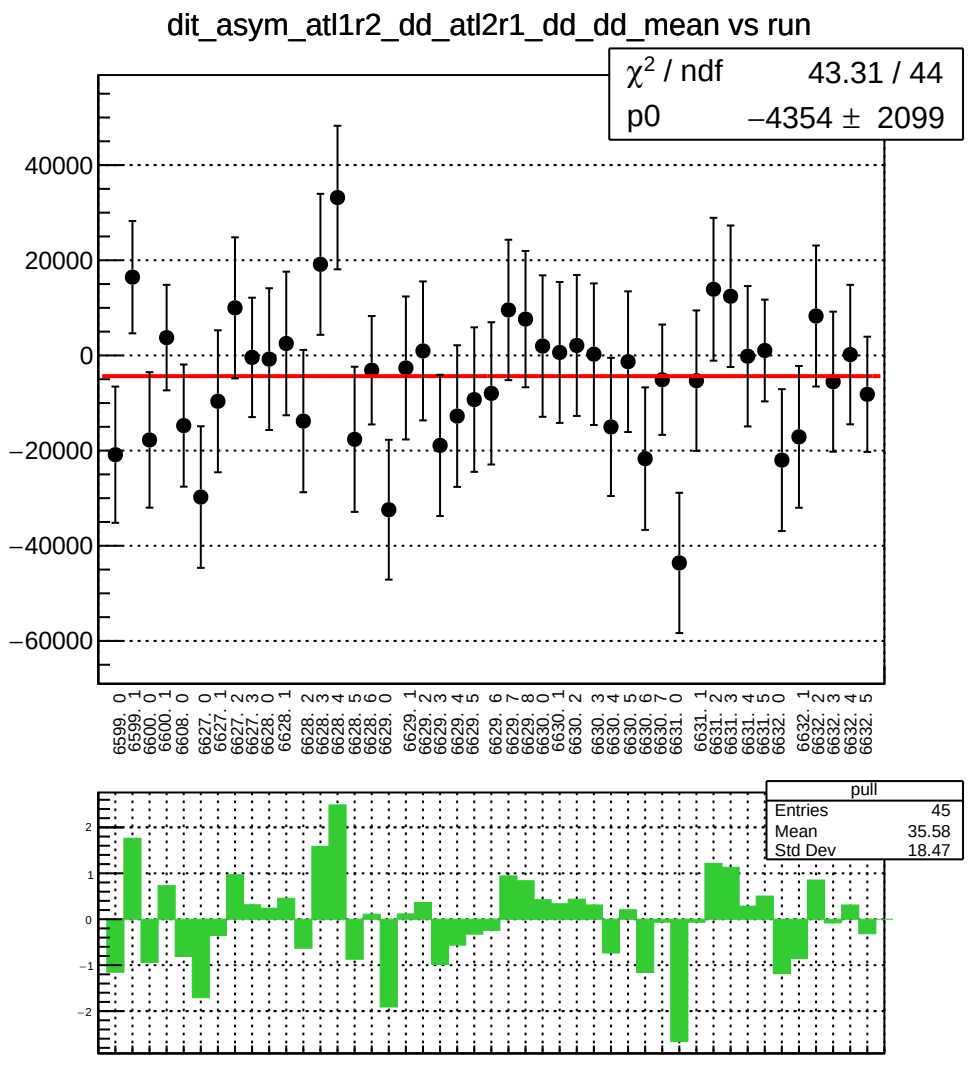
dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 43.31 / 44
p0 −4354 ± 2099
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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6631. 2
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6632. 0
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pull
Entries 45
Mean 35.58
Std Dev 18.47
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01524
Std Dev 0.9809
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2
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−4
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6
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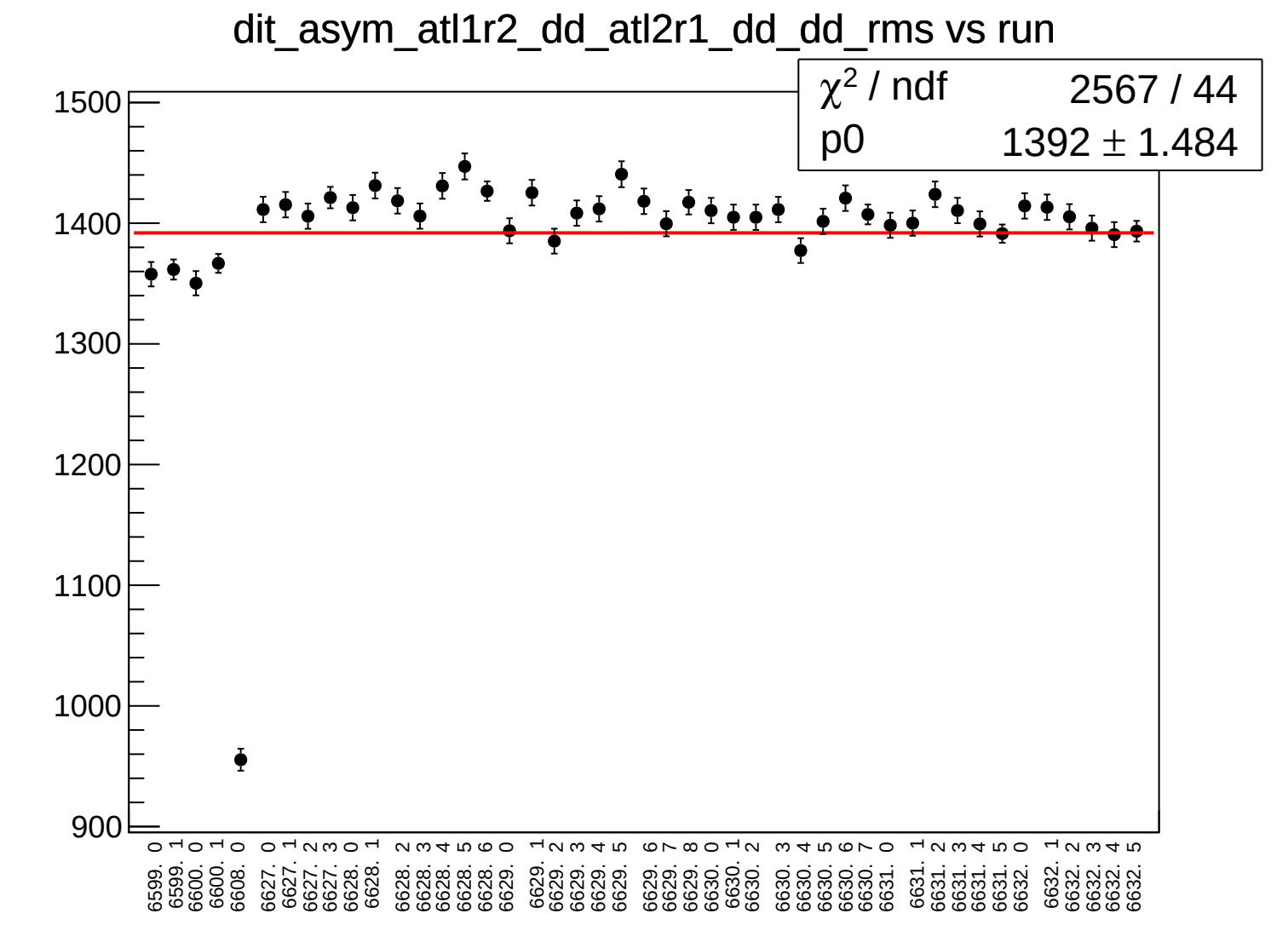
dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 2567 / 44
p0 1392 ± 1.484
1500
1400
1300
1200
1100
1000
900
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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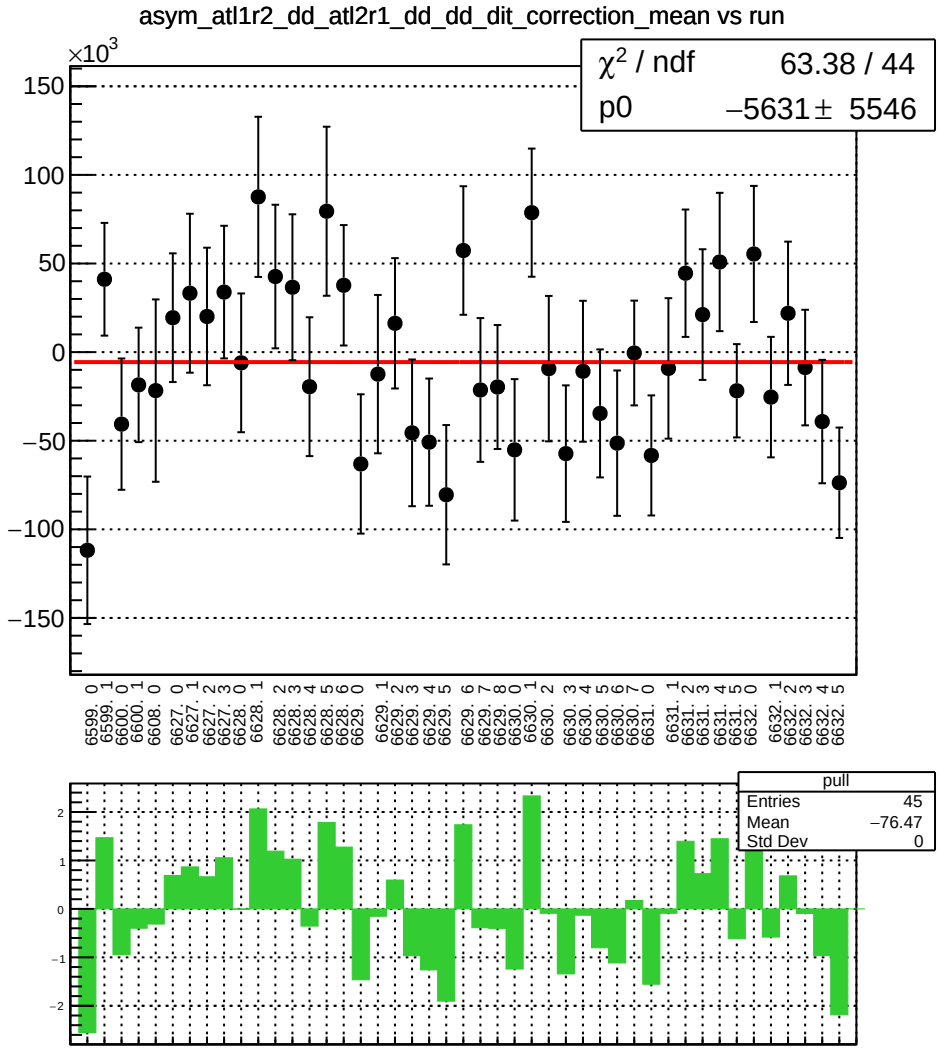
asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 63.38 / 44
p0 −5631 ± 5546
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 2
6627. 3
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6630. 0
6630. 1
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6631. 2
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6631. 4
6631. 5
6632. 0
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6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −76.47
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01906
Std Dev 1.187
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8
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−4
−2
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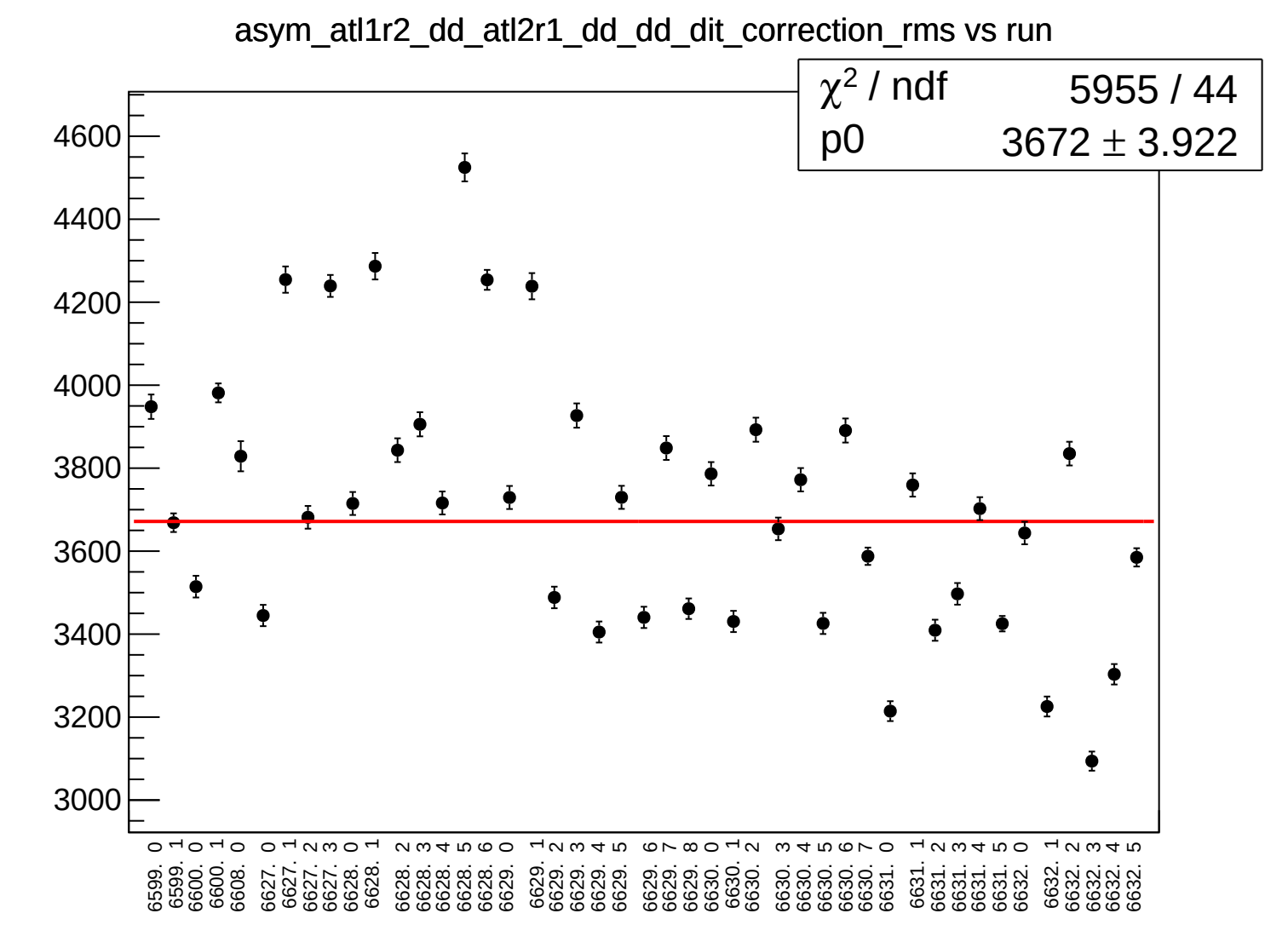
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 5955 / 44
p0 3672 ± 3.922
4600
4400
4200
4000
3800
3600
3400
3200
3000
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6599. 1
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6600. 1
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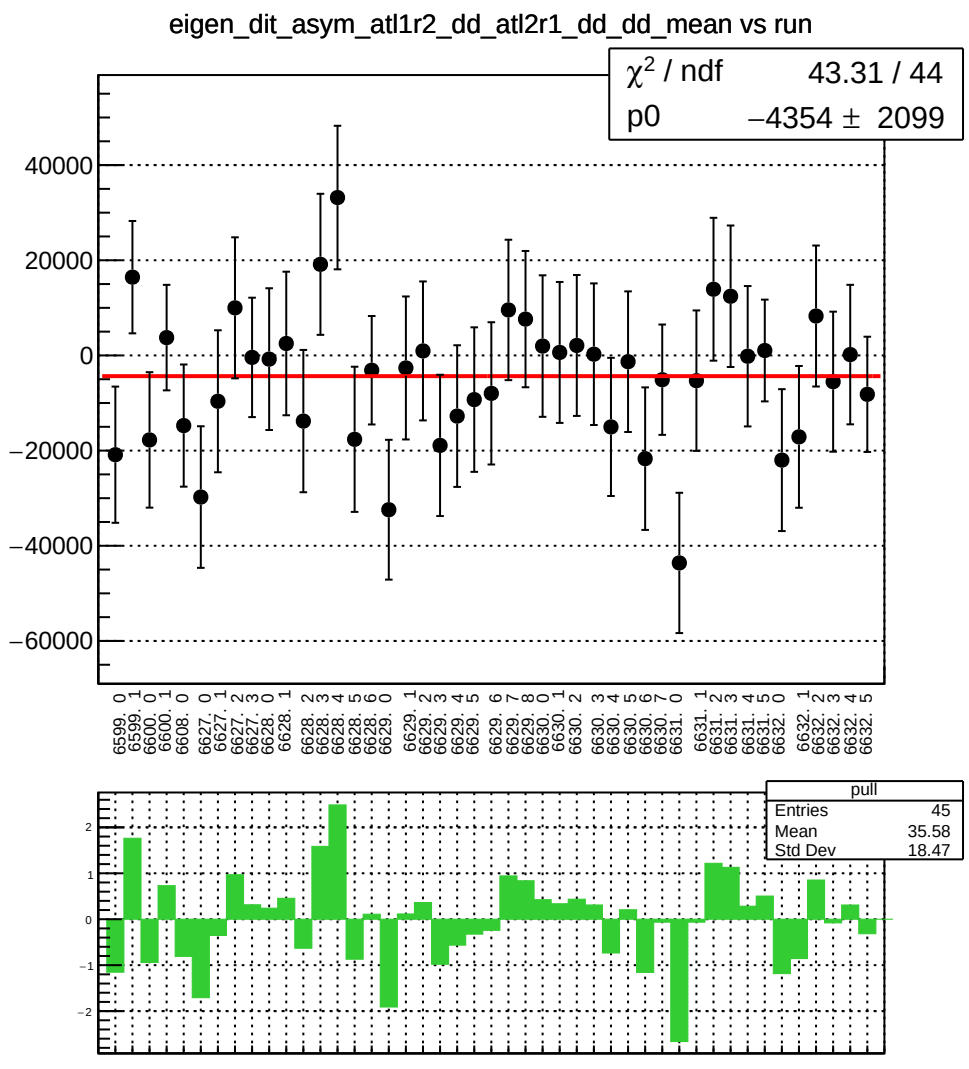
eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 43.31 / 44
p0 −4354 ± 2099
40000
20000
0
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−40000
−60000
6599. 0
6599. 1
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pull
Entries 45
Mean 35.58
Std Dev 18.47
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−2
pull1D
Entries 45
Mean −0.01524
Std Dev 0.9809
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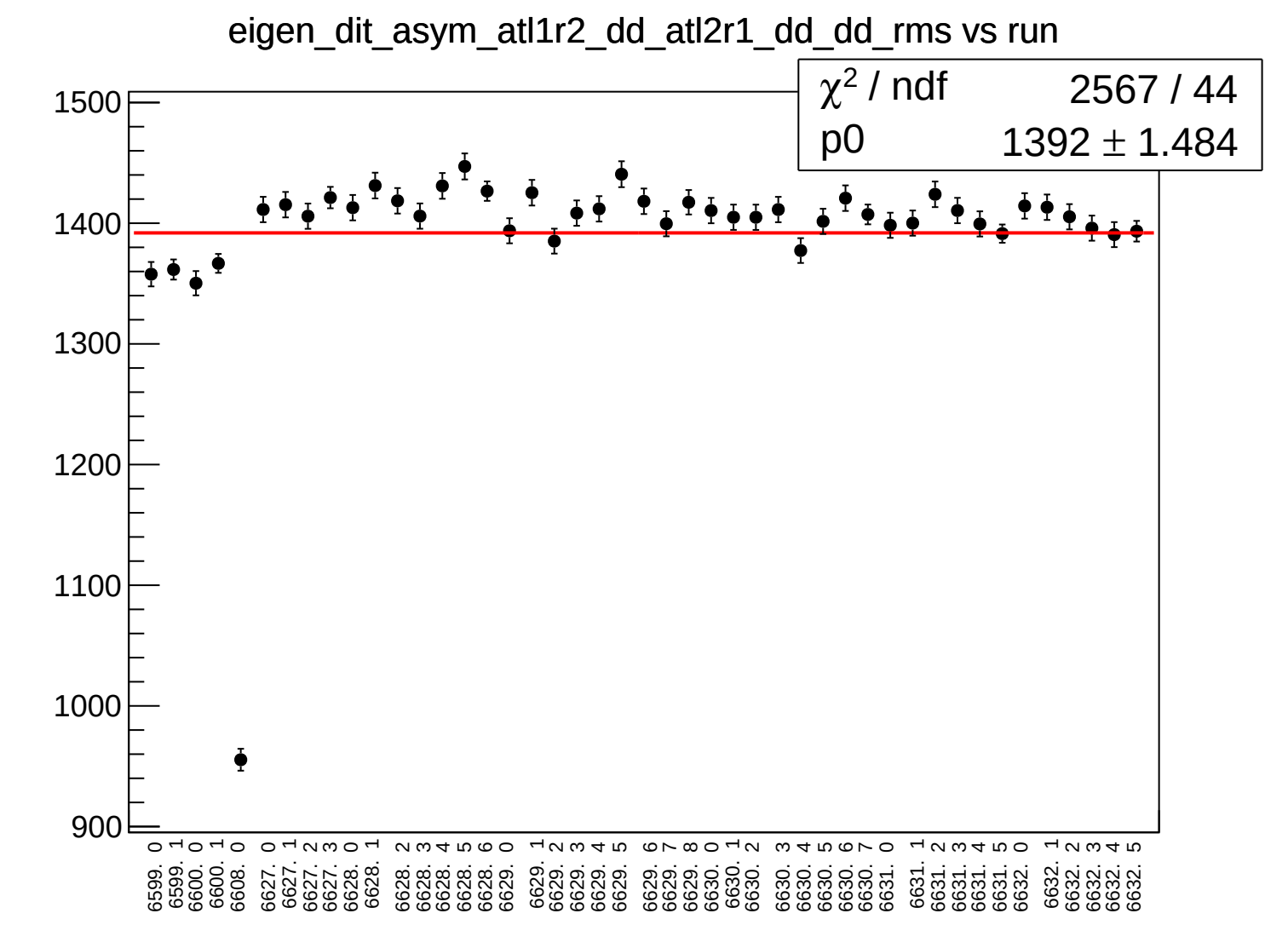
eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 2567 / 44
p0 1392 ± 1.484
1500
1400
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1200
1100
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6599. 0
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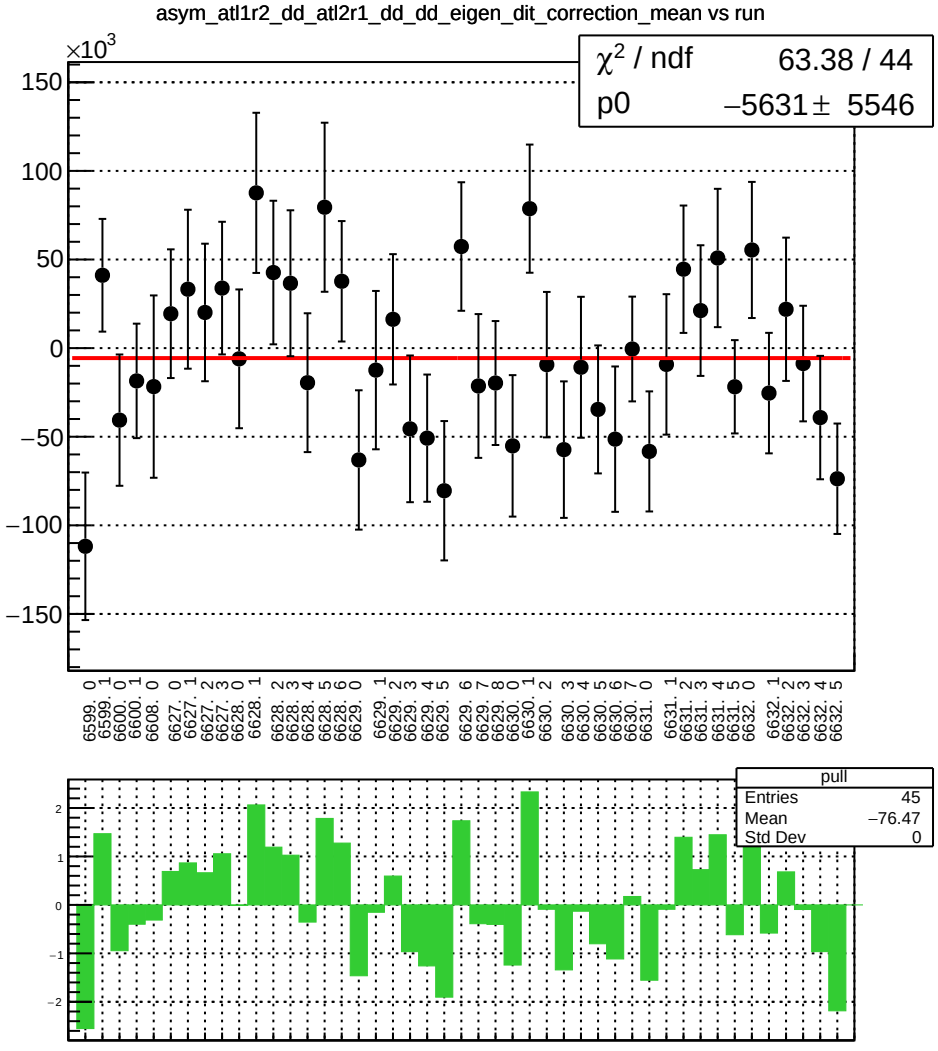
asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 63.38 / 44
p0 −5631 ± 5546
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
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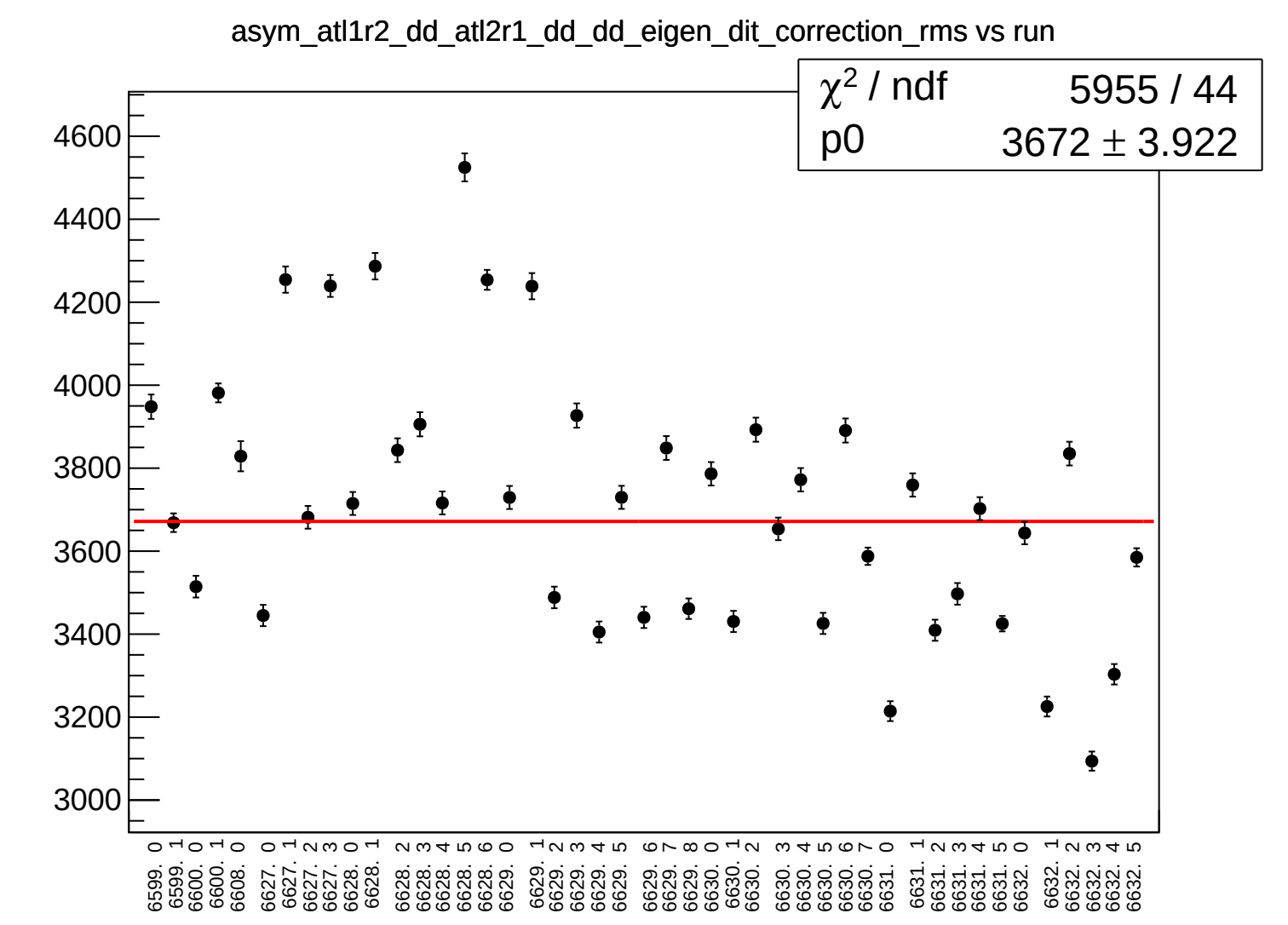
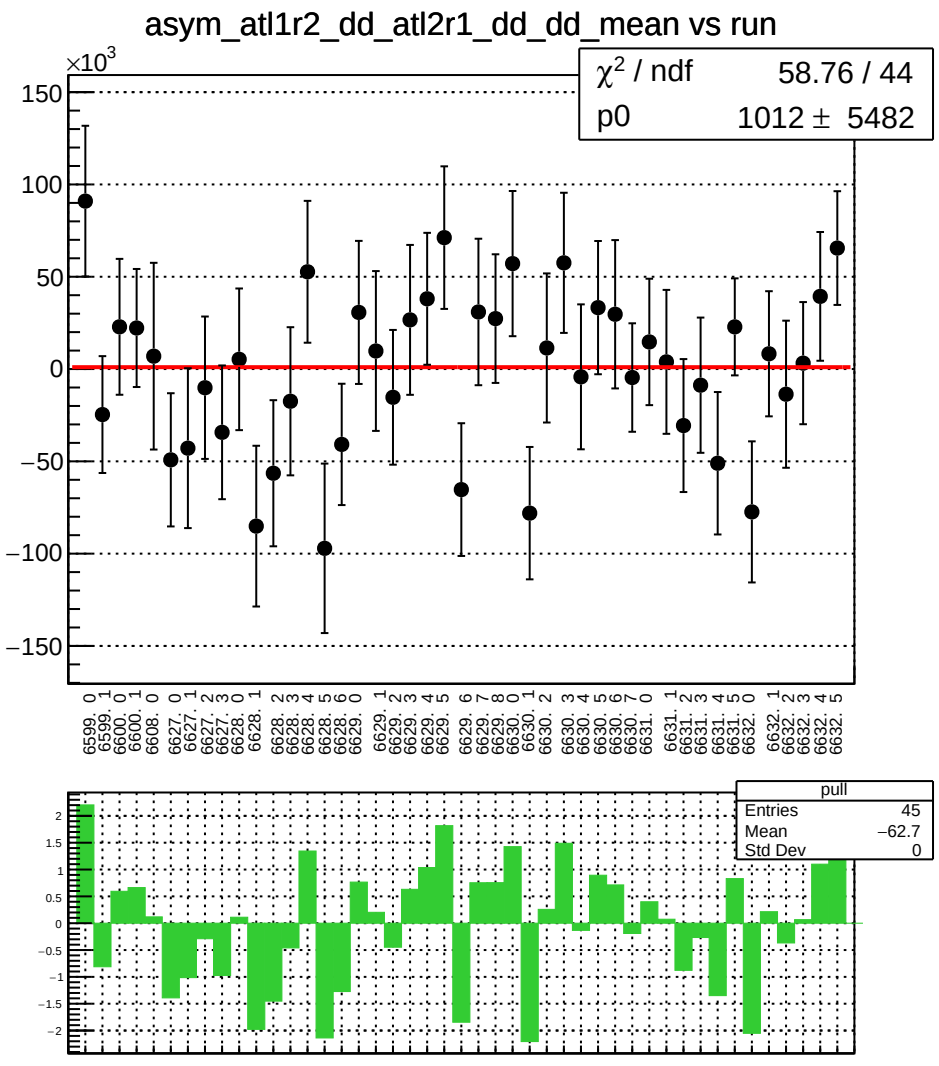
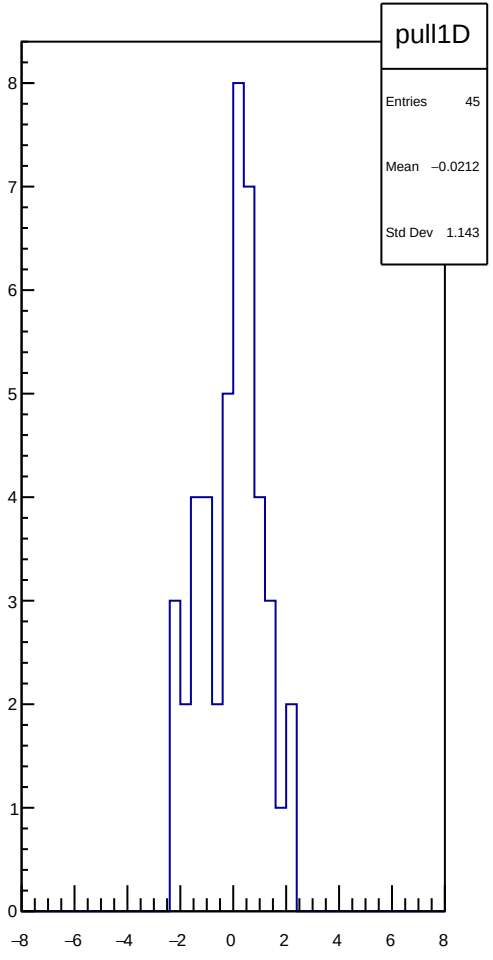
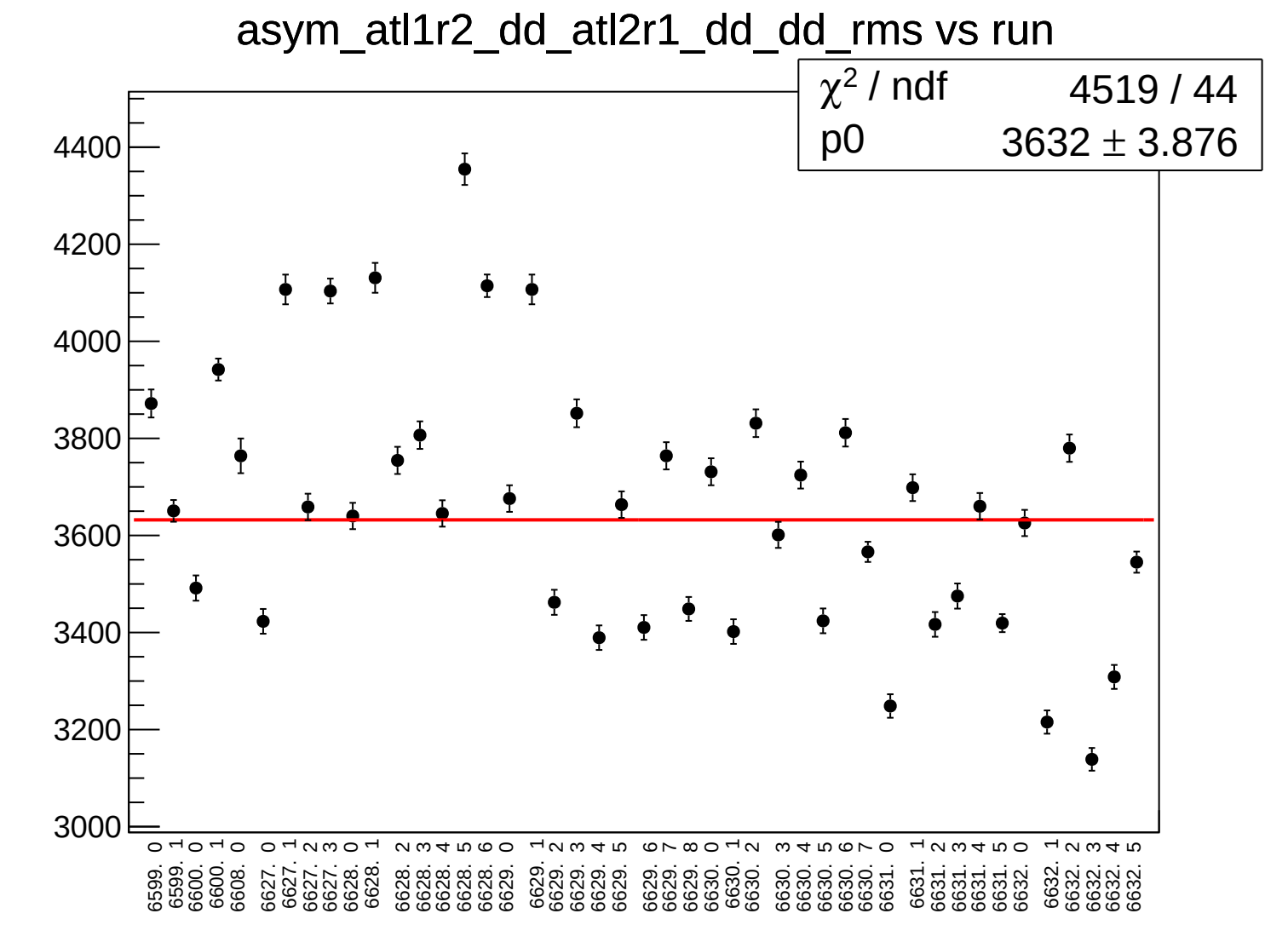
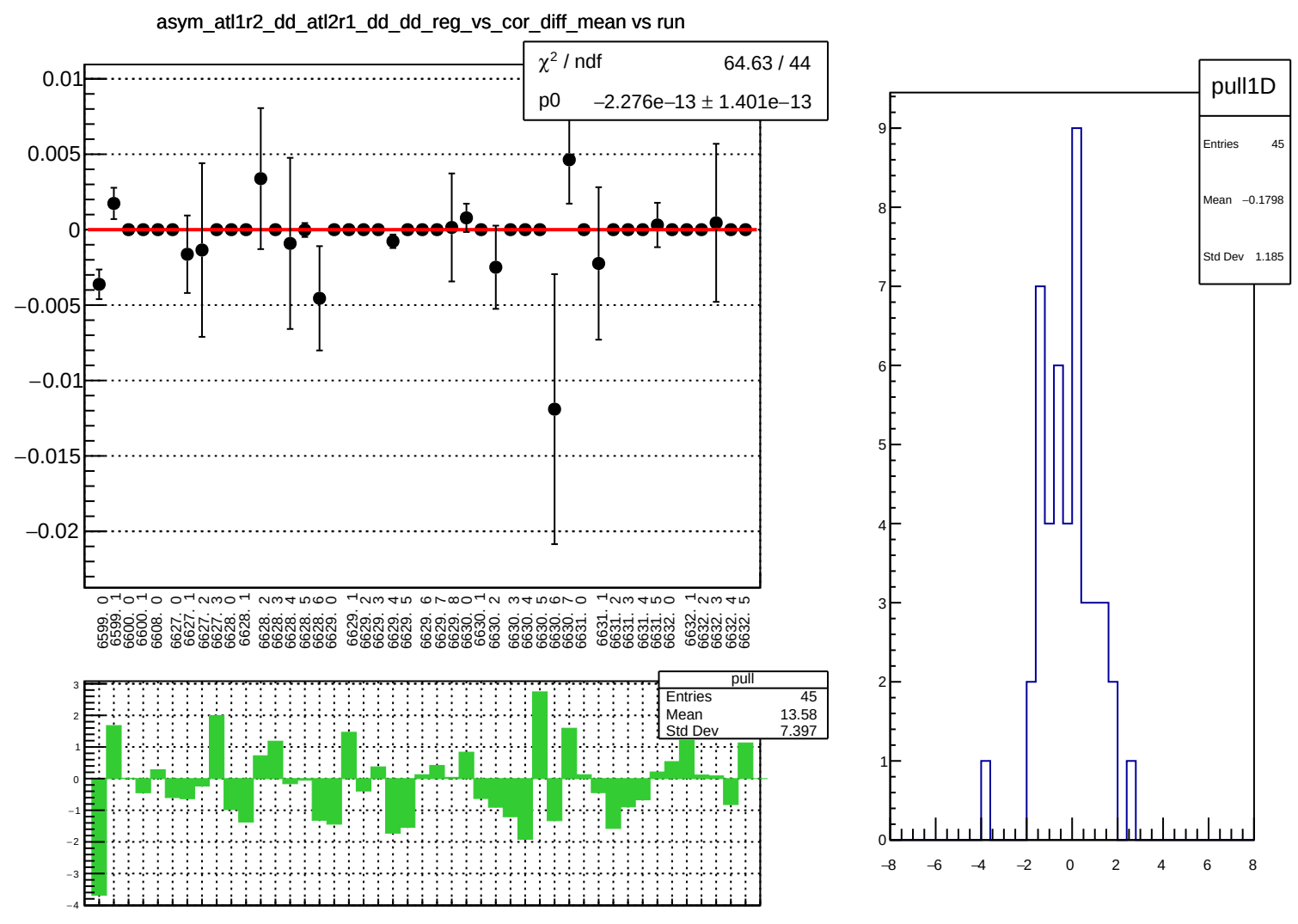
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −76.47
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01906
Std Dev 1.187
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

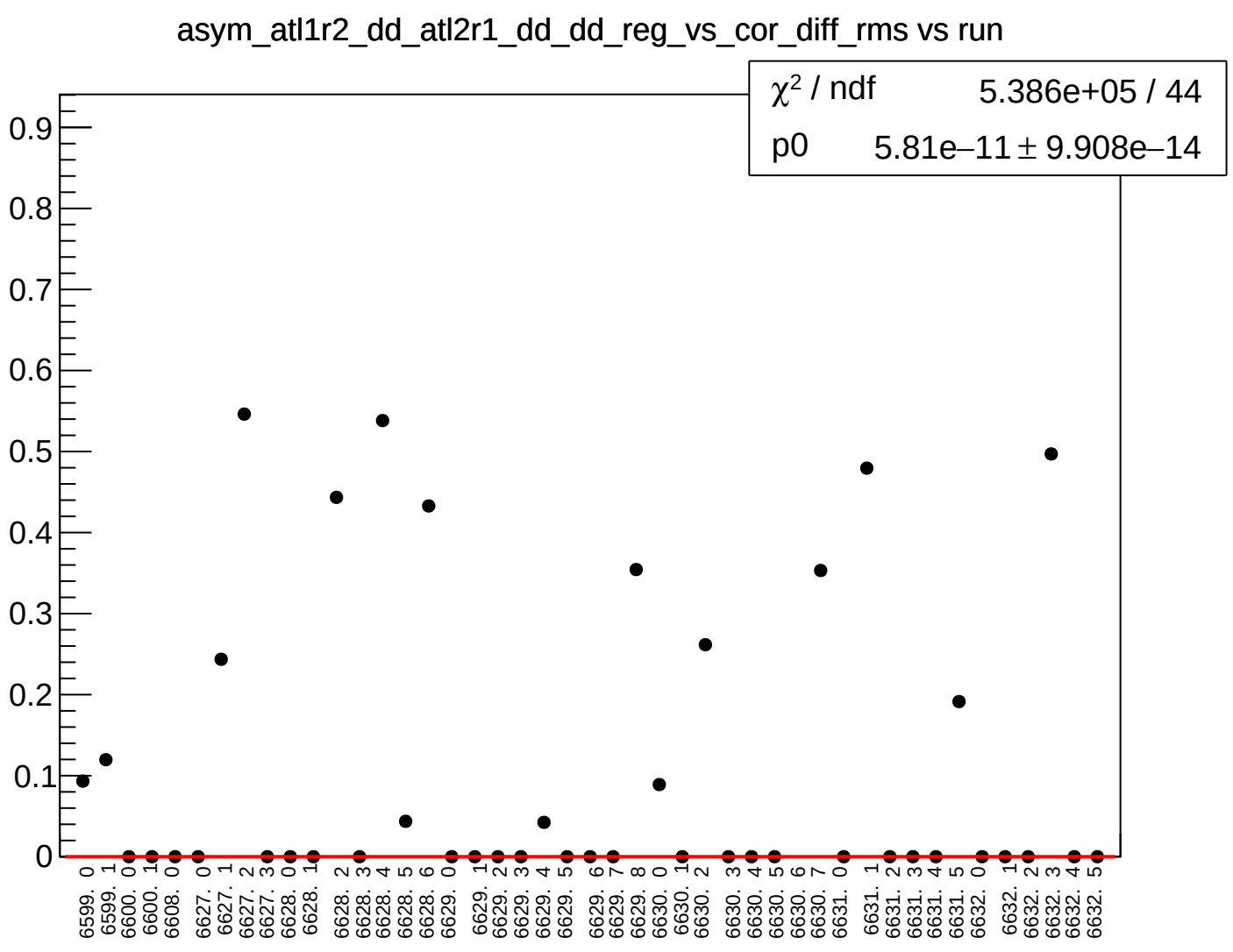

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 5955 / 44
p0 3672 ± 3.922
4600
4400
4200
4000
3800
3600
3400
3200
3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

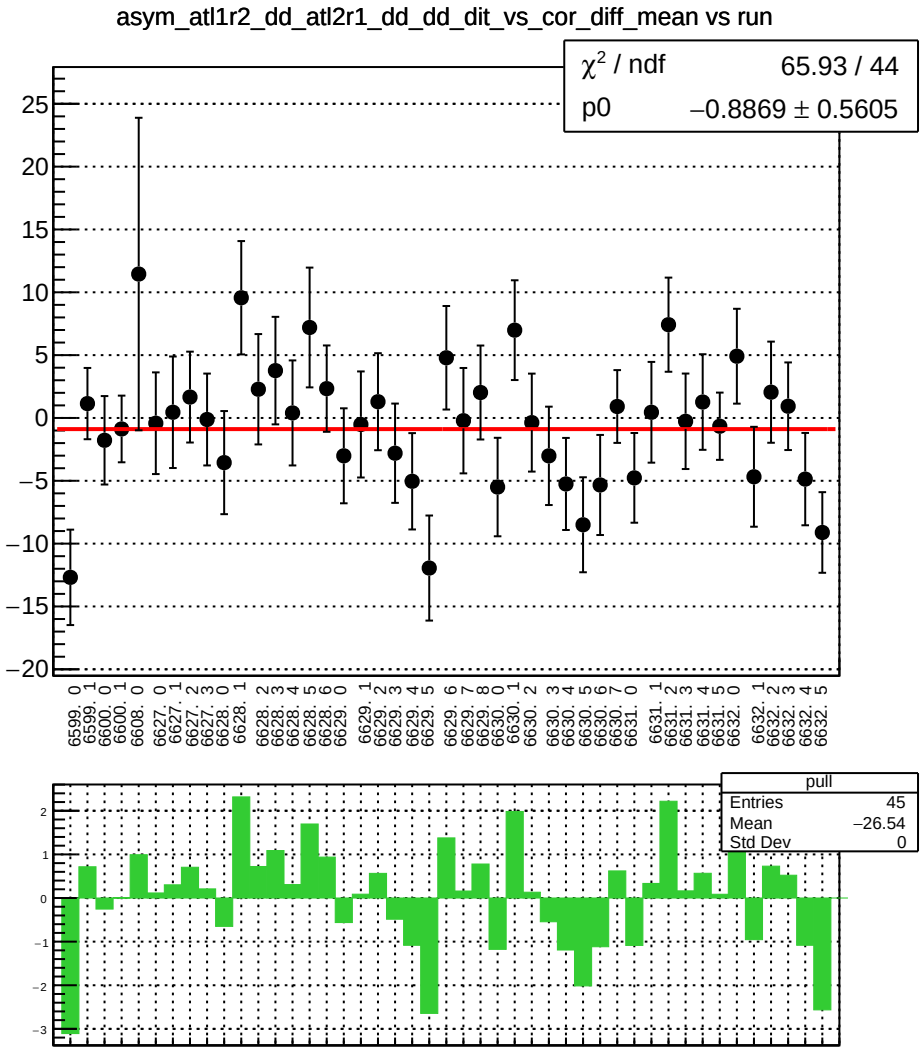

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 58.76 / 44
p0 1012 ± 5482
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −62.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

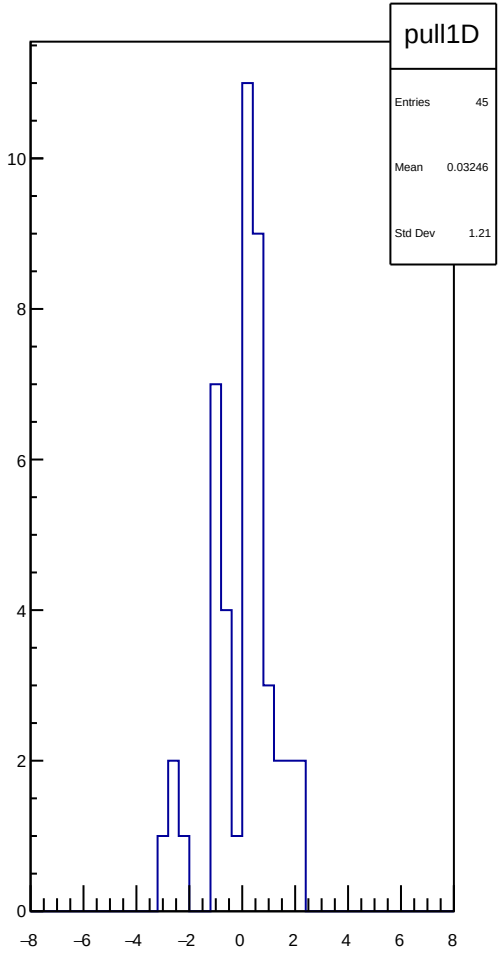

pull1D
Entries 45
Mean −0.0212
Std Dev 1.143
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

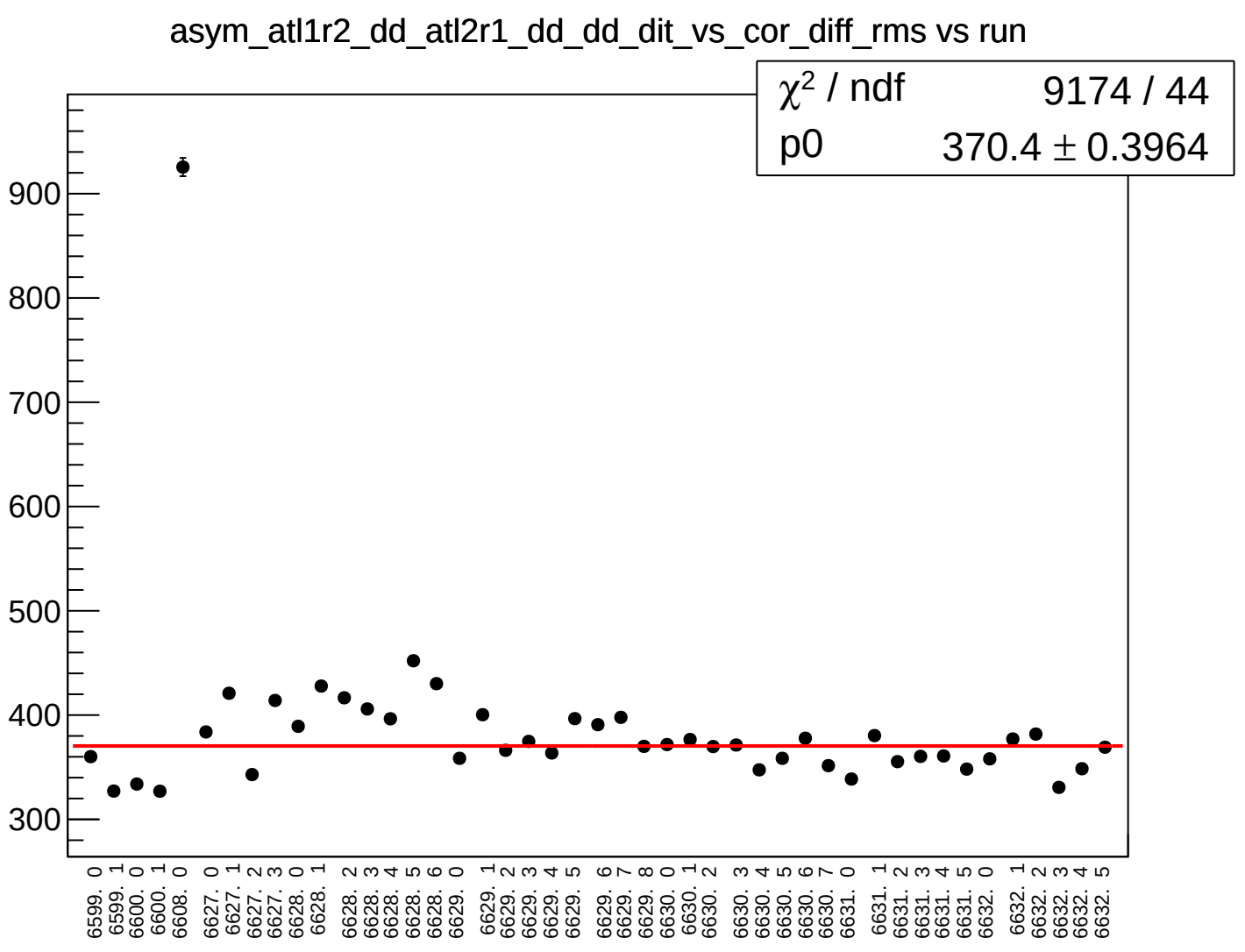

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 4519 / 44
p0 3632 ± 3.876
4400
4200
4000
3800
3600
3400
3200
3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

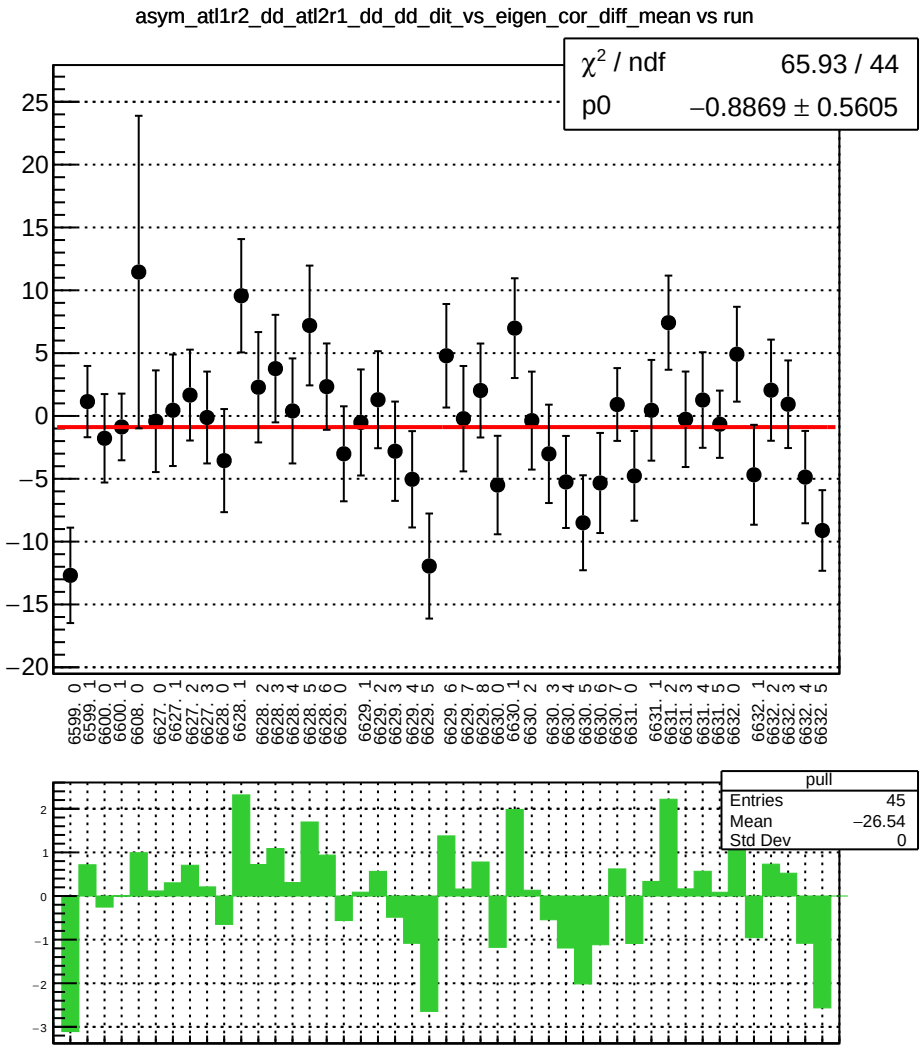

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 64.63 / 44
p0 −2.276e−13 ± 1.401e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 13.58
Std Dev 7.397
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 45
Mean −0.1798
Std Dev 1.185
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

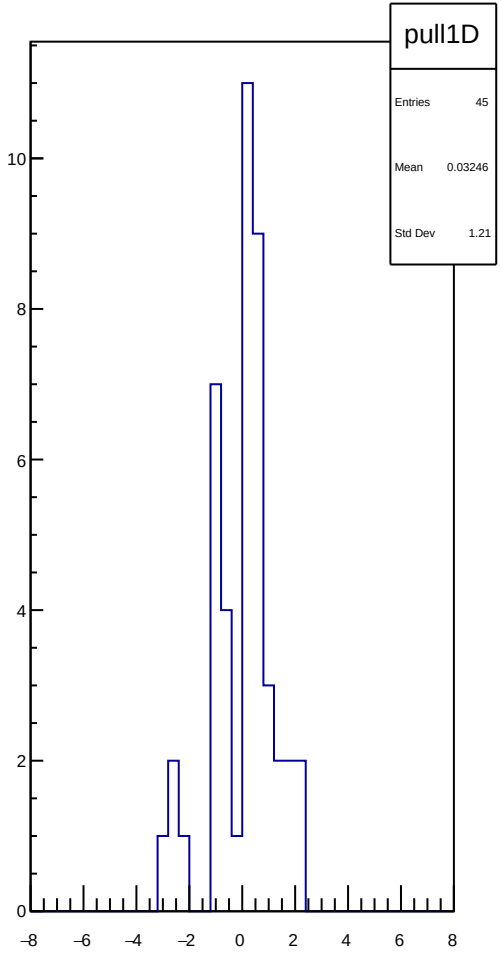

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.386e+05 / 44
p0 5.81e−11 ± 9.908e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

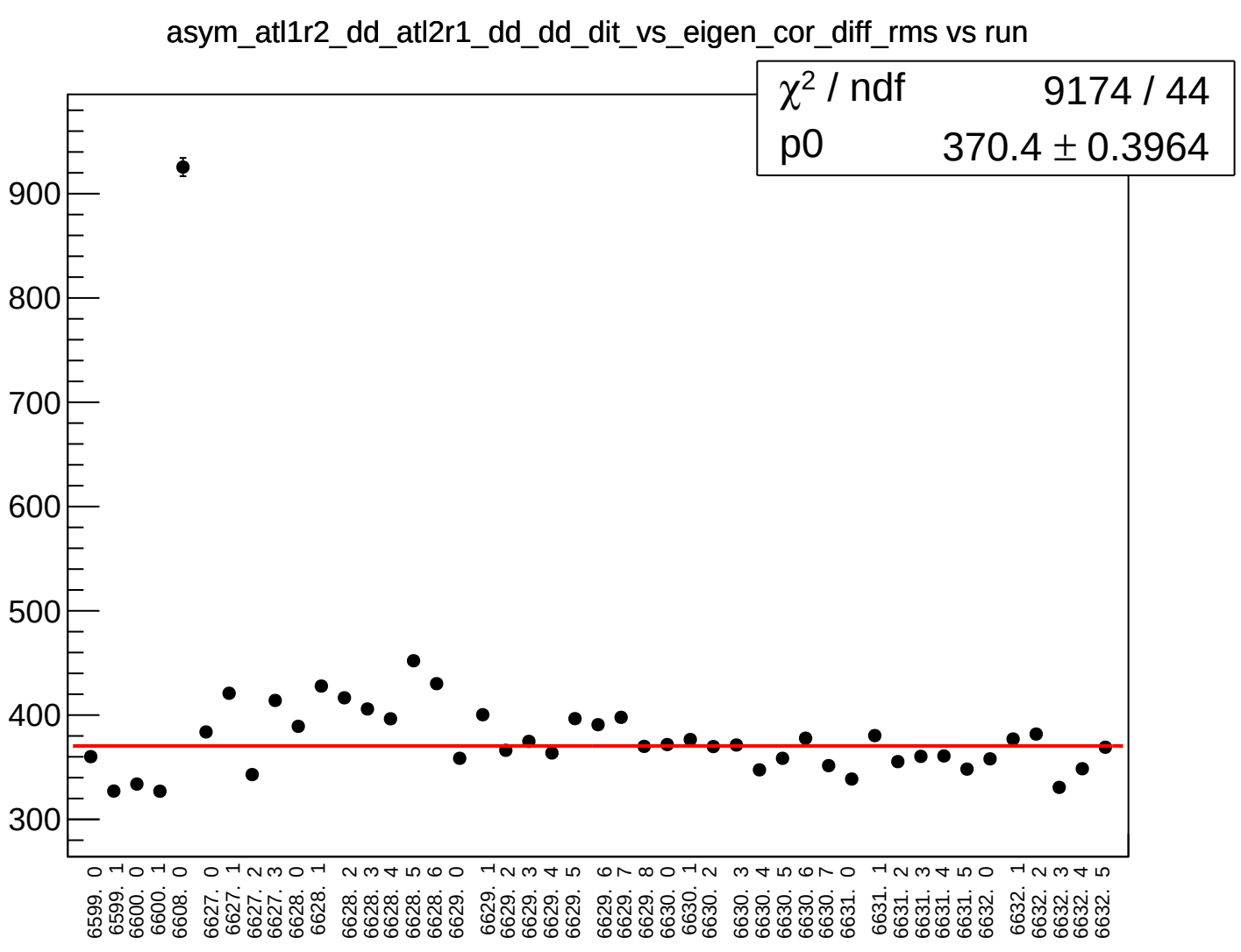

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 65.93 / 44
p0 −0.8869 ± 0.5605
pull
Entries 45
Mean −26.54
Std Dev 0

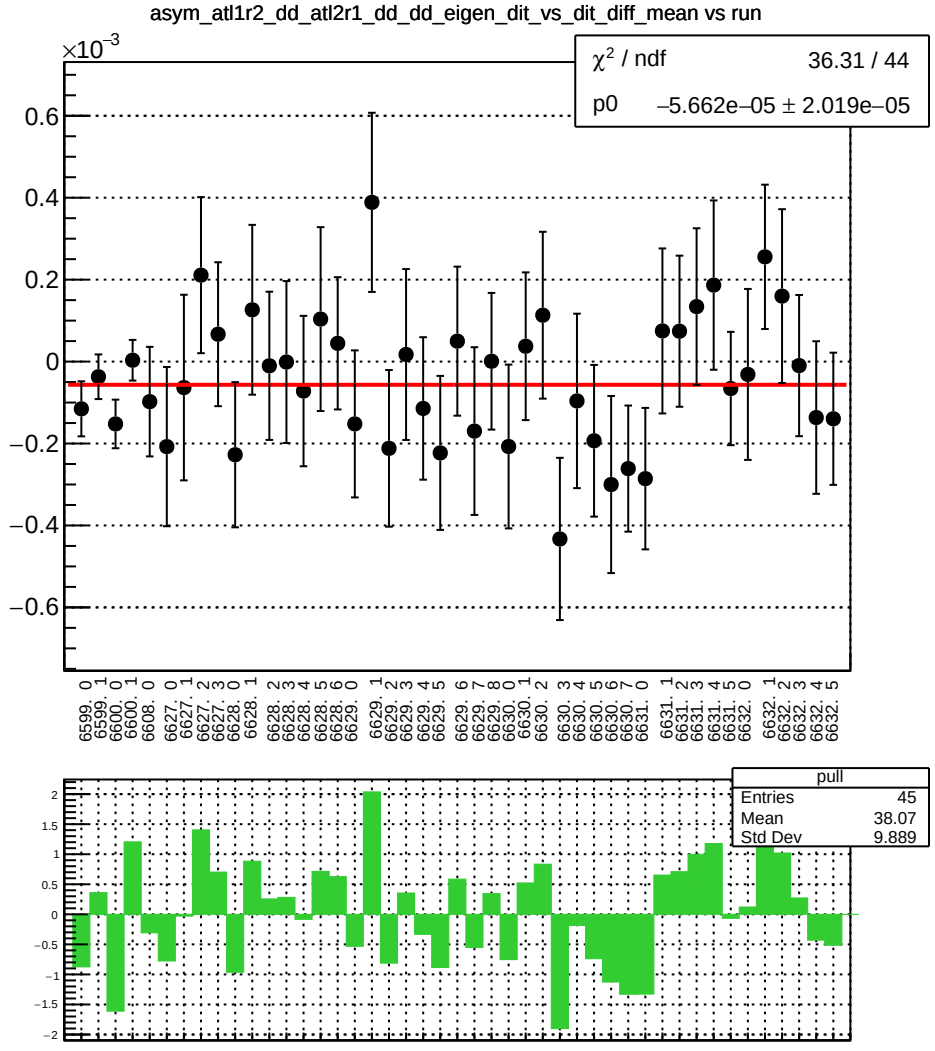

pull1D
Entries 45
Mean 0.03246
Std Dev 1.21

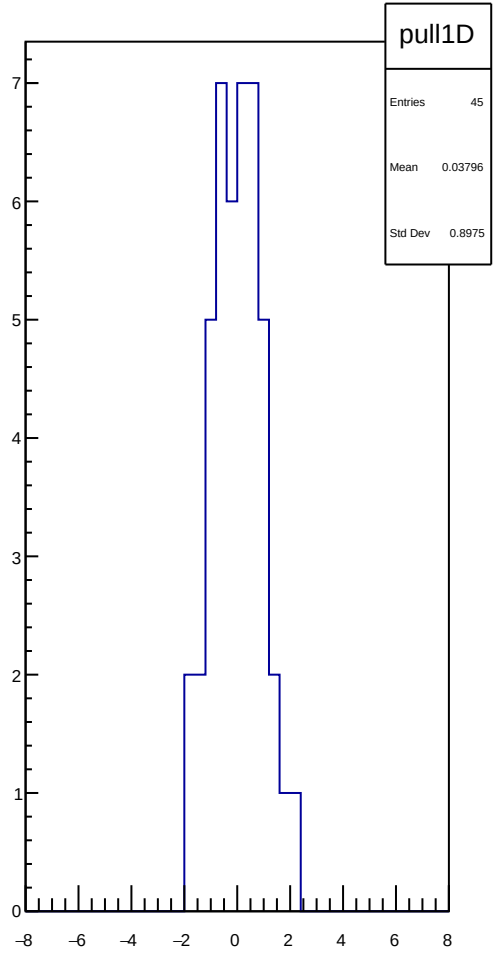

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9174 / 44
p0 370.4 ± 0.3964
900
800
700
600
500
400
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

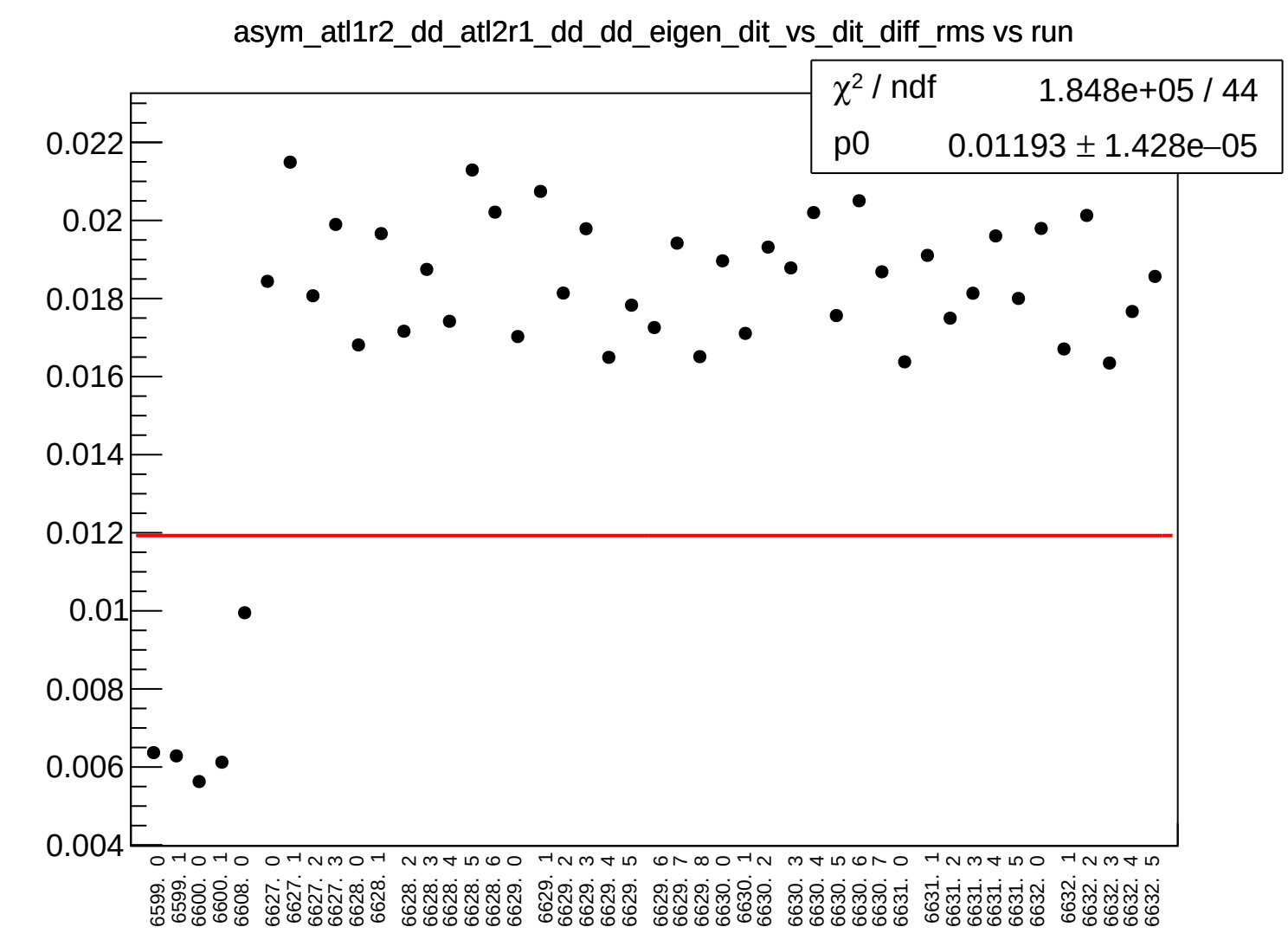

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.93 / 44
p0 −0.8869 ± 0.5605
pull
Entries 45
Mean −26.54
Std Dev 0

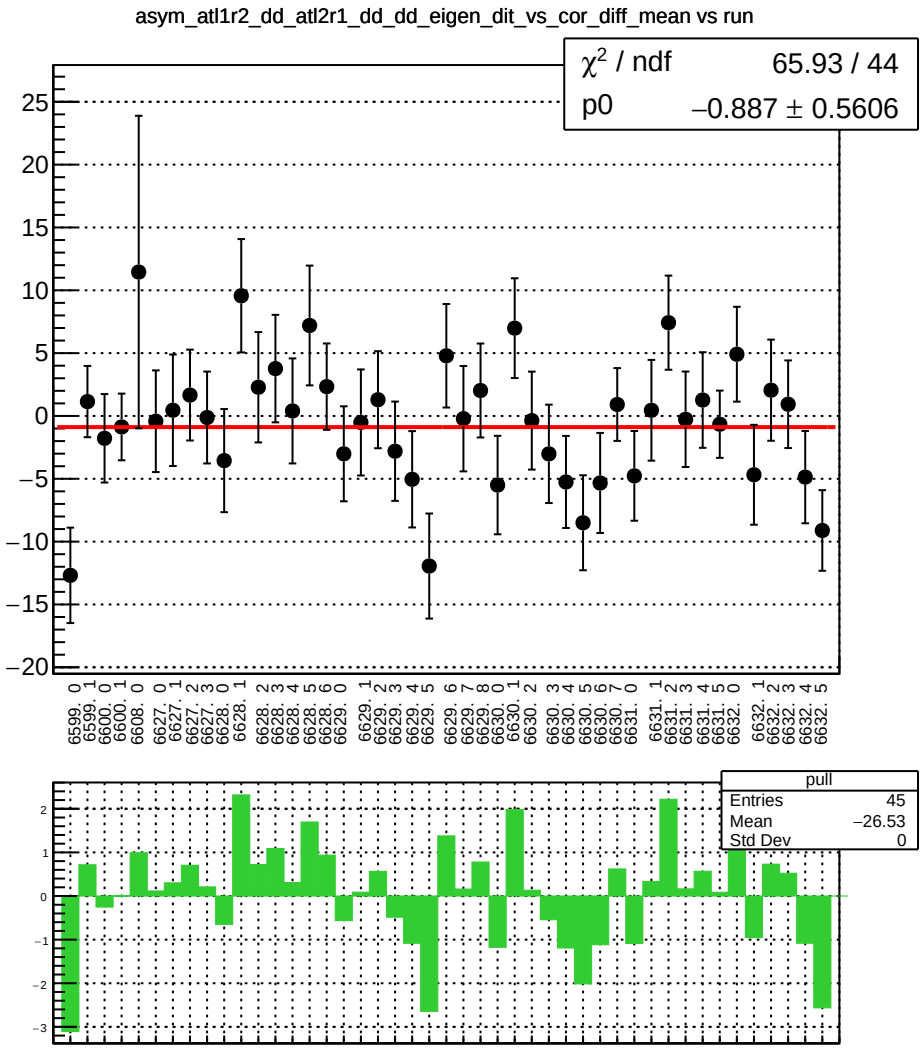

pull1D
Entries 45
Mean 0.03246
Std Dev 1.21

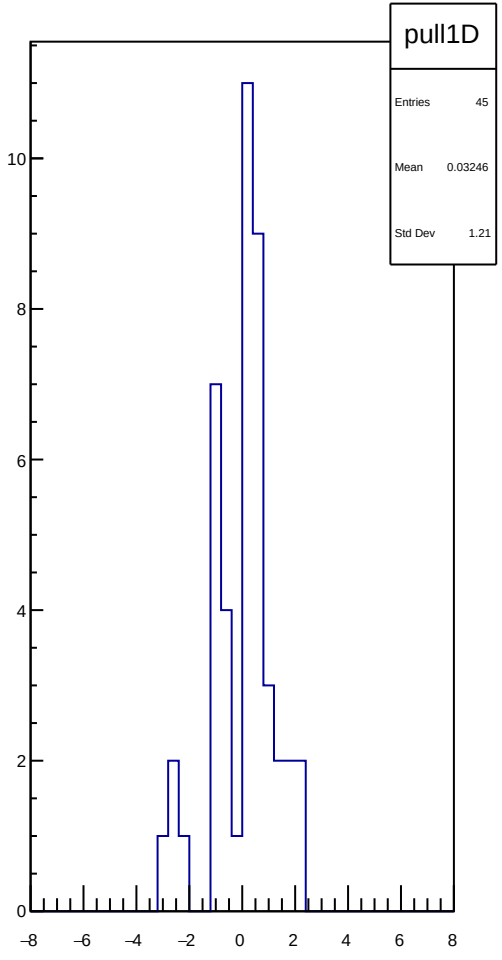

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9174 / 44
p0 370.4 ± 0.3964
900
800
700
600
500
400
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

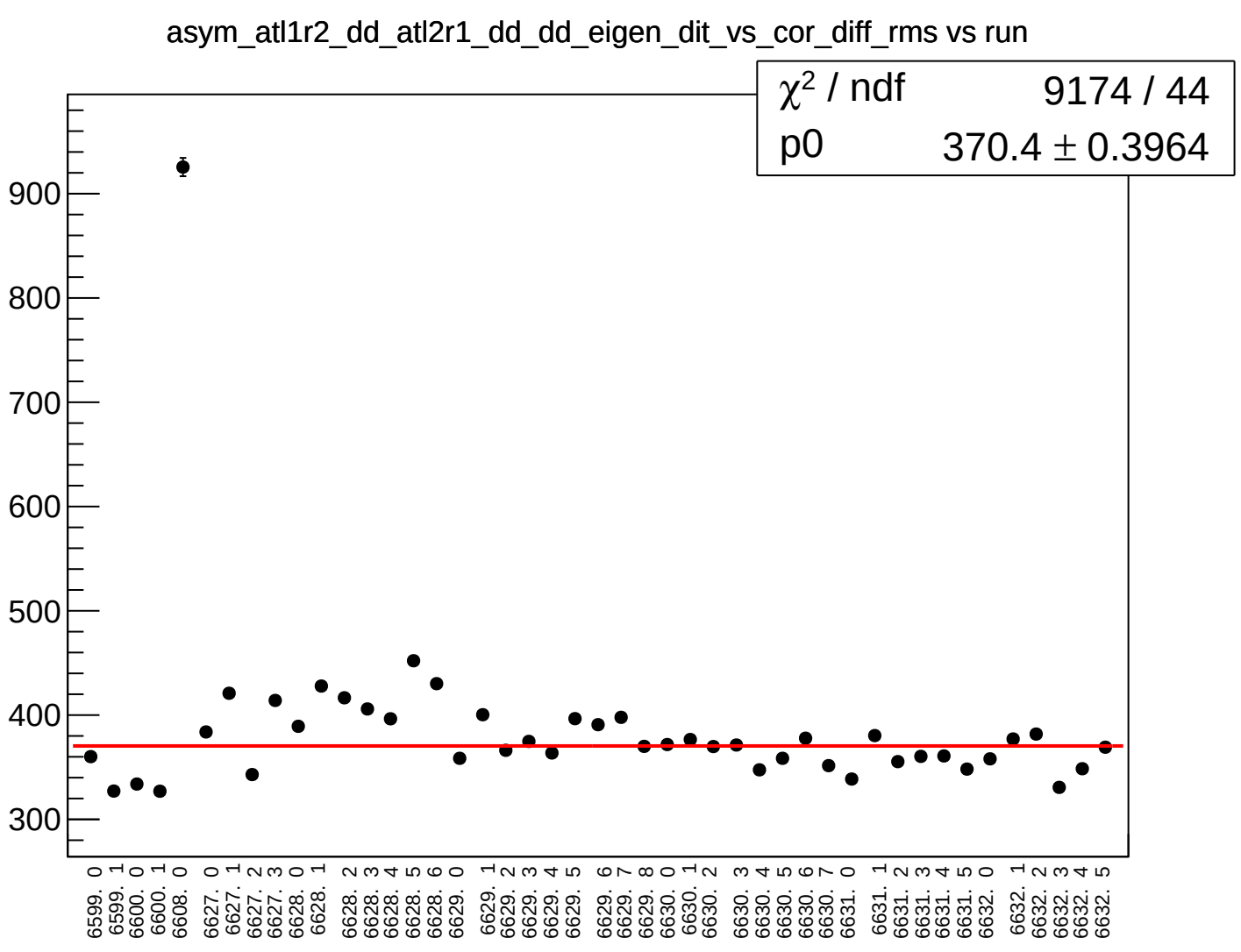

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 36.31 / 44
p0 −5.662e−05 ± 2.019e−05
pull
Entries 45
Mean 38.07
Std Dev 9.889

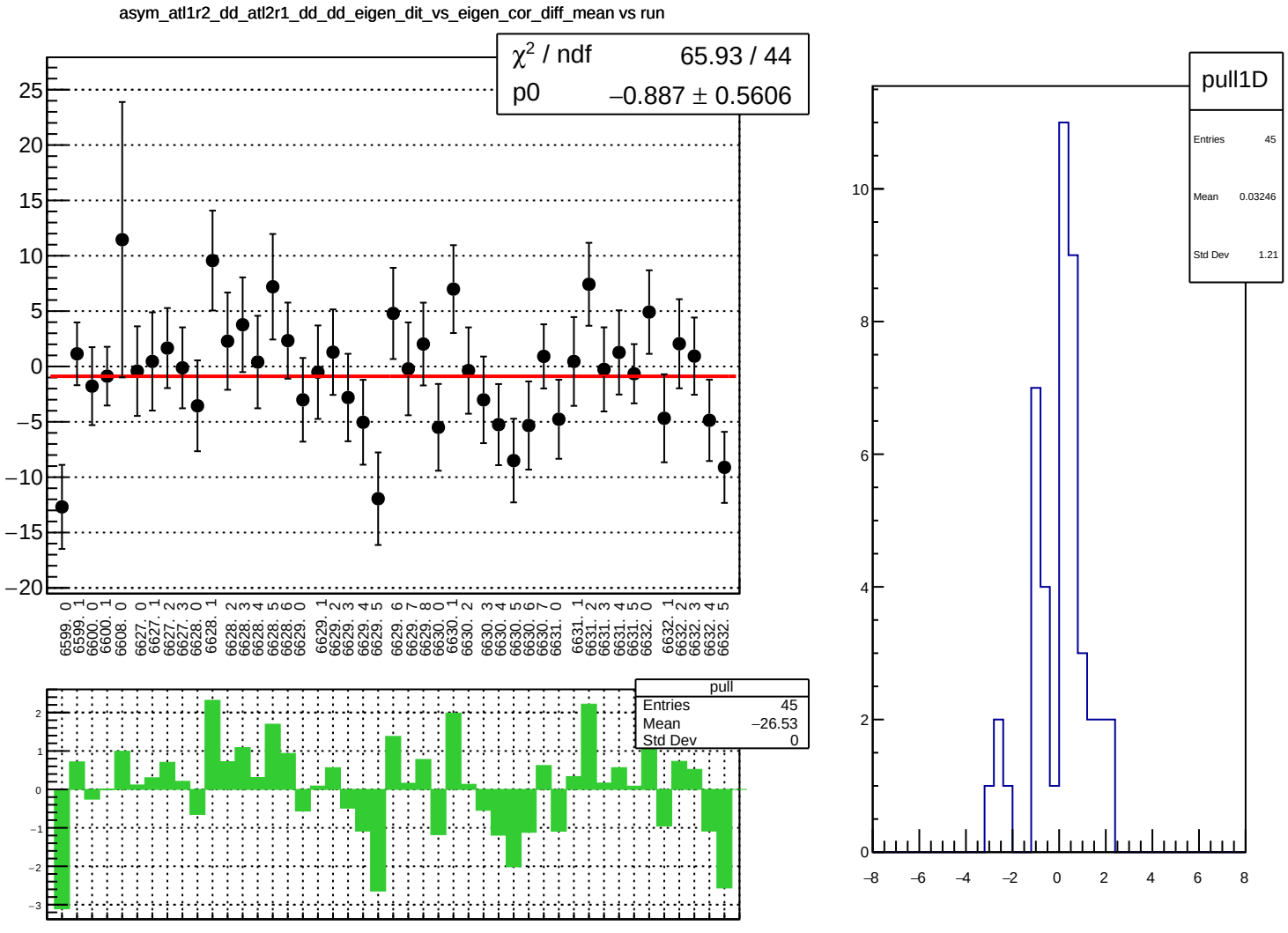

pull1D
Entries 45
Mean 0.03796
Std Dev 0.8975

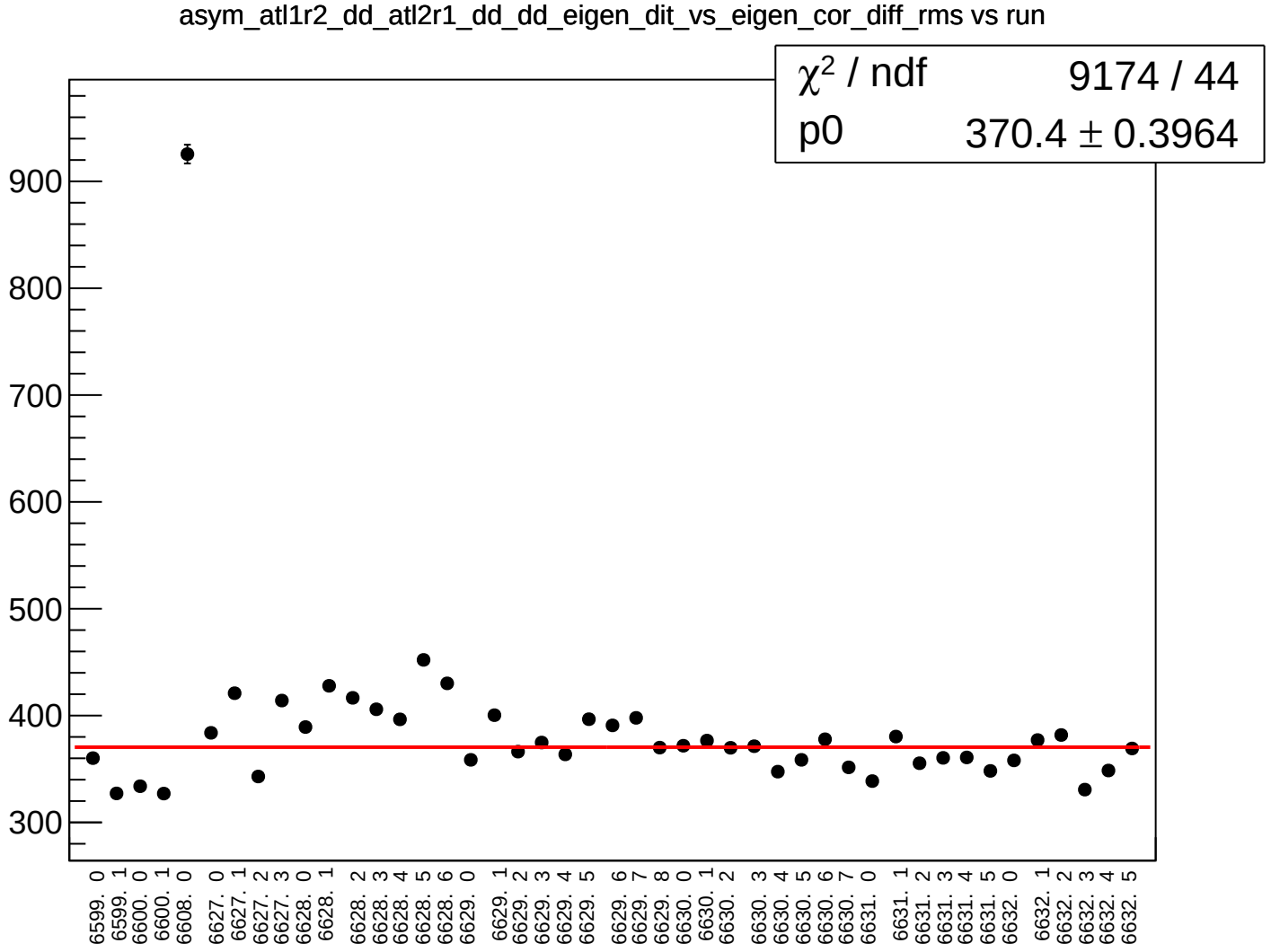

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.848e+05 / 44
p0 0.01193 ± 1.428e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

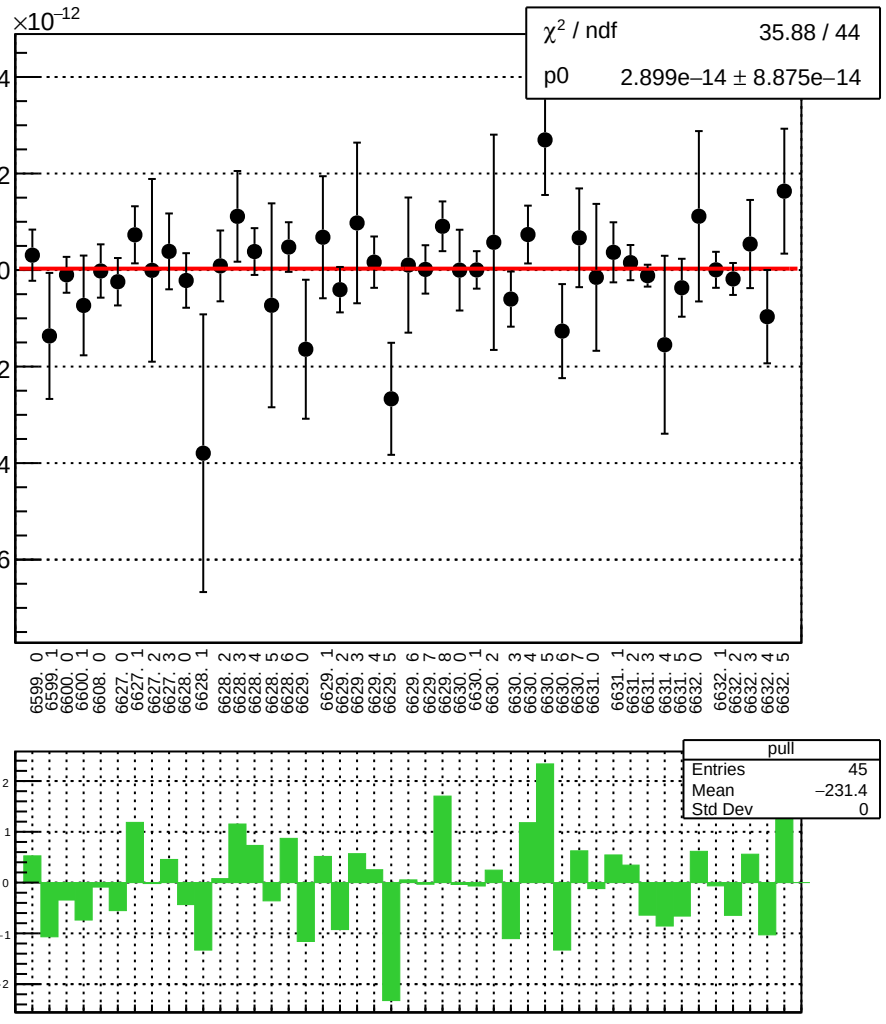

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65.93 / 44
p0 −0.887 ± 0.5606
pull
Entries 45
Mean −26.53
Std Dev 0

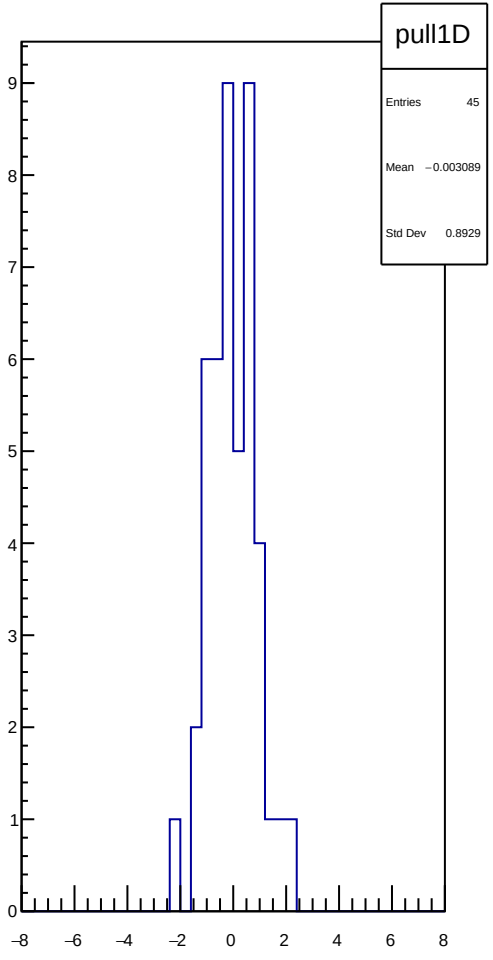

pull1D
Entries 45
Mean 0.03246
Std Dev 1.21

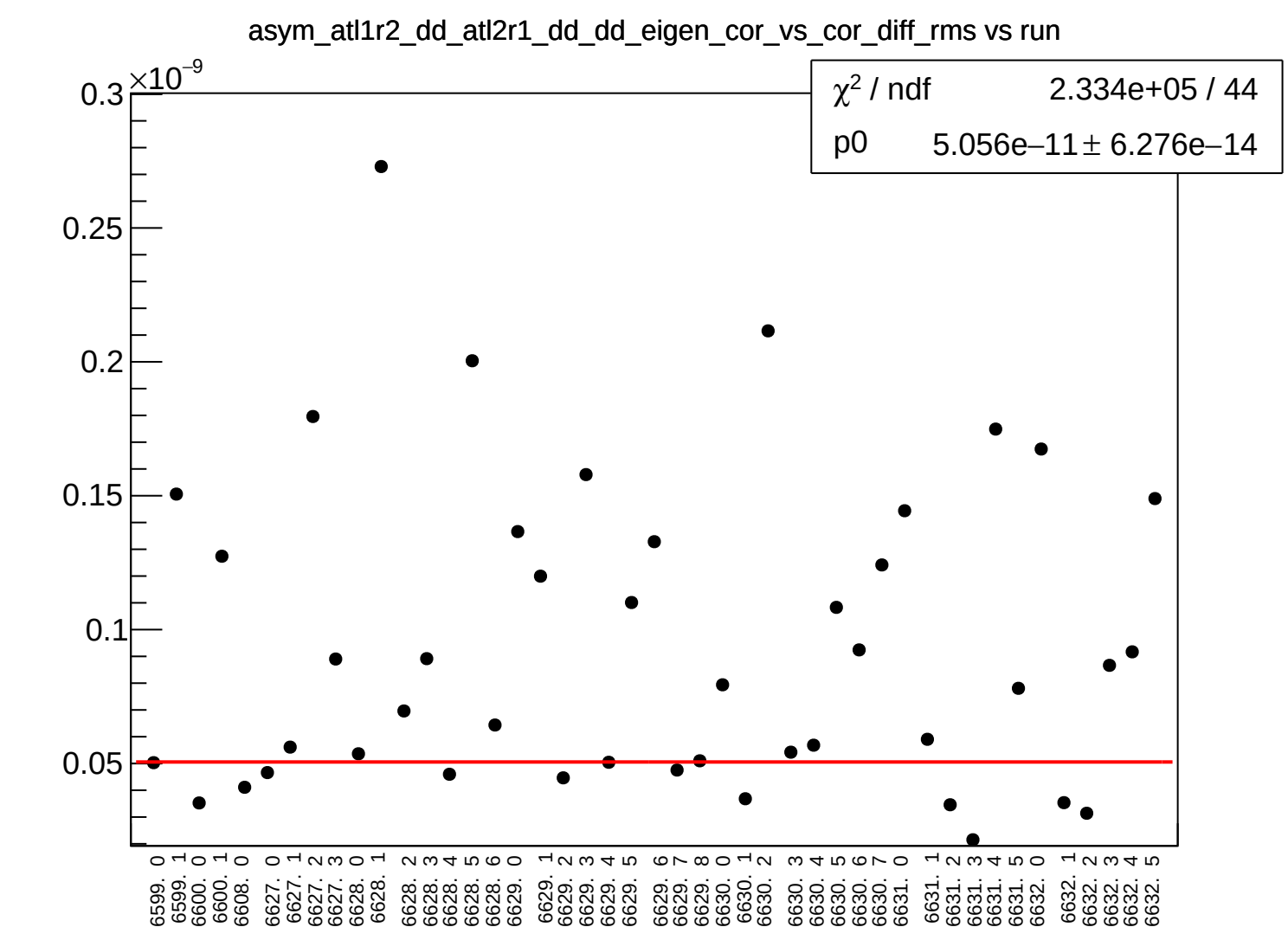

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9174 / 44
p0 370.4 ± 0.3964
900
800
700
600
500
400
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.93 / 44
p0 −0.887 ± 0.5606
pull
Entries 45
Mean −26.53
Std Dev 0
pull1D
Entries 45
Mean 0.03246
Std Dev 1.21


asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9174 / 44
p0 370.4 ± 0.3964
900
800
700
600
500
400
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 35.88 / 44
p0 2.899e−14 ± 8.875e−14
pull
Entries 45
Mean −231.4
Std Dev 0


pull1D
Entries 45
Mean −0.003089
Std Dev 0.8929


asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.334e+05 / 44
p0 5.056e−11 ± 6.276e−14
0.3
0.25
0.2
0.15
0.1
0.05
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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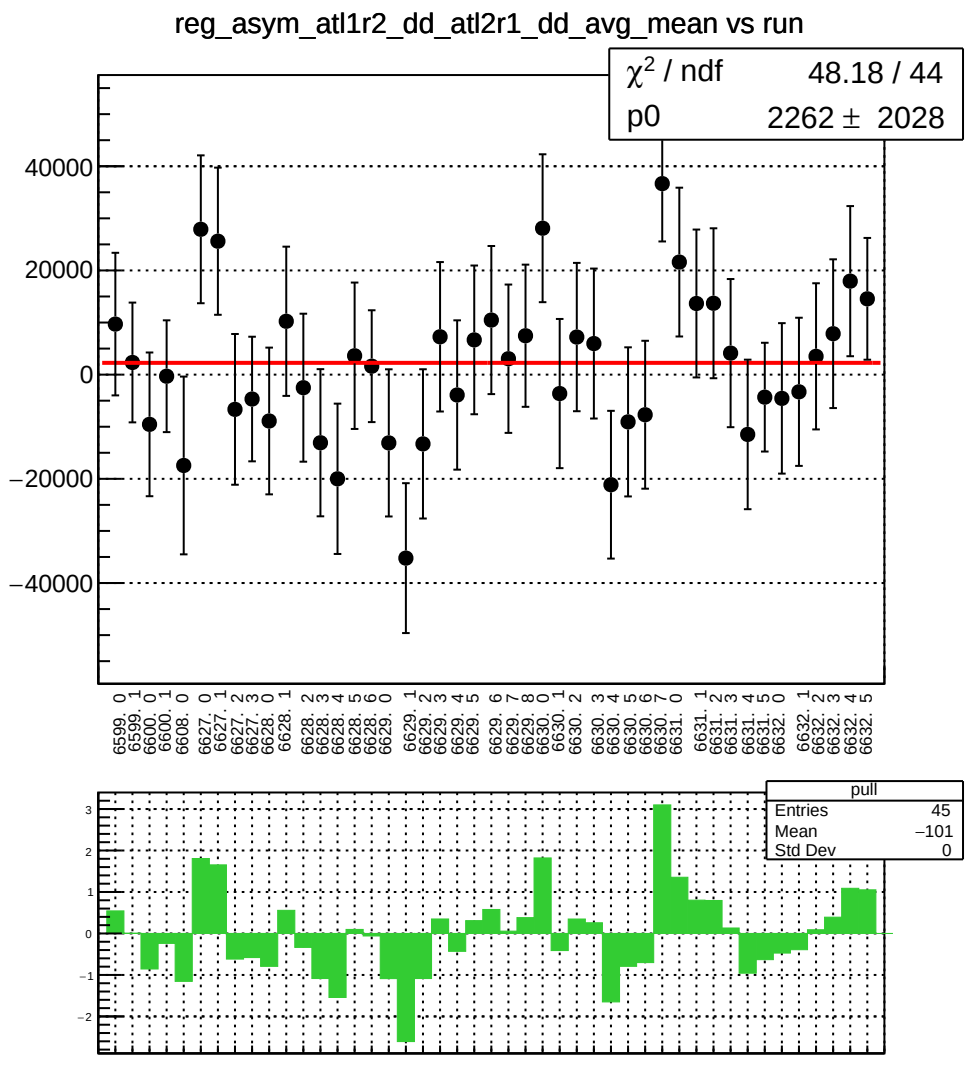
reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 48.18 / 44
p0 2262 ± 2028
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6630. 7
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −101
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02035
Std Dev 1.034
10
8
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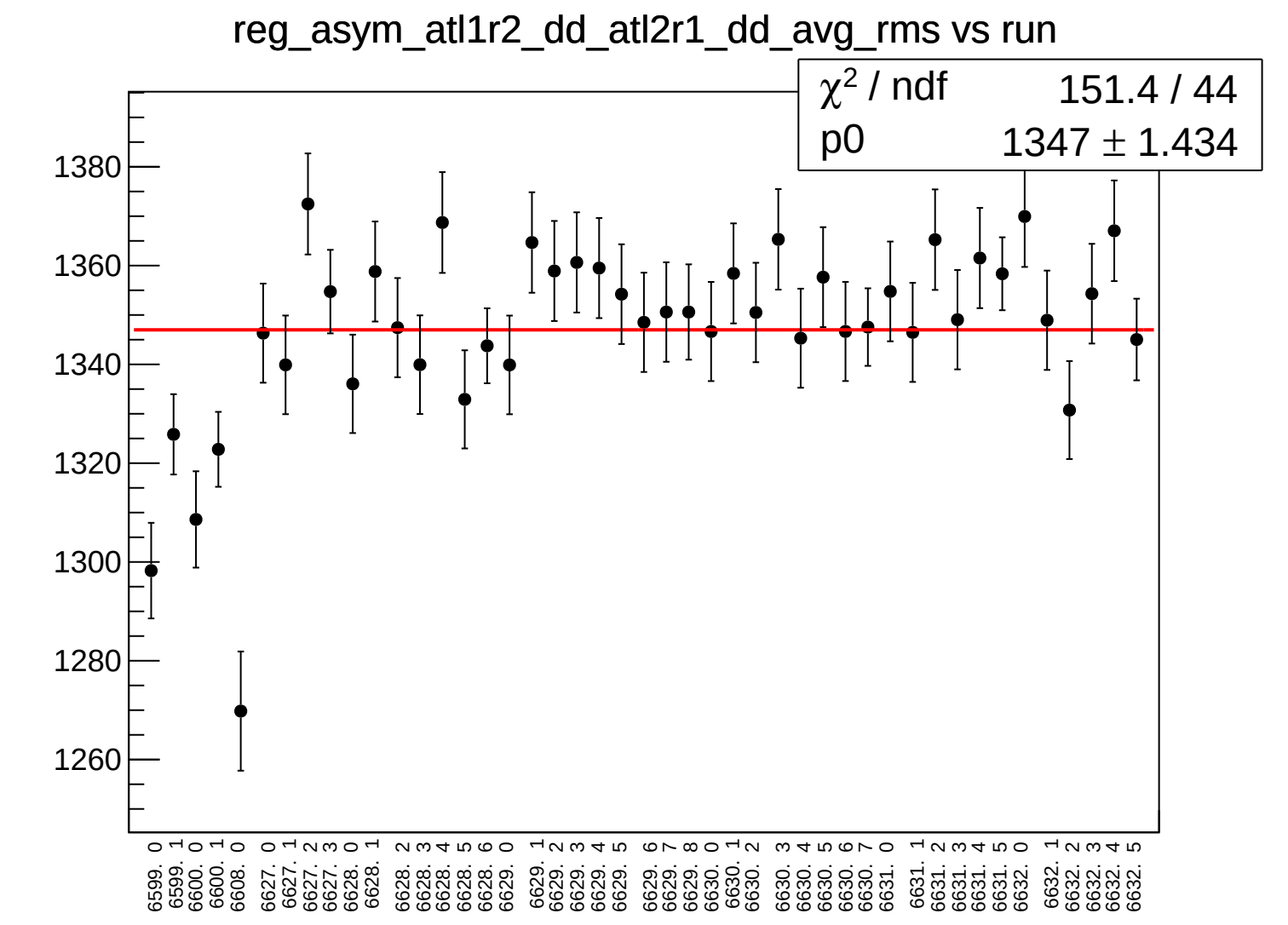
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 151.4 / 44
p0 1347 ± 1.434
1380
1360
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1320
1300
1280
1260
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6599. 1
6600. 0
6600. 1
6608. 0
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6627. 2
6627. 3
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6628. 2
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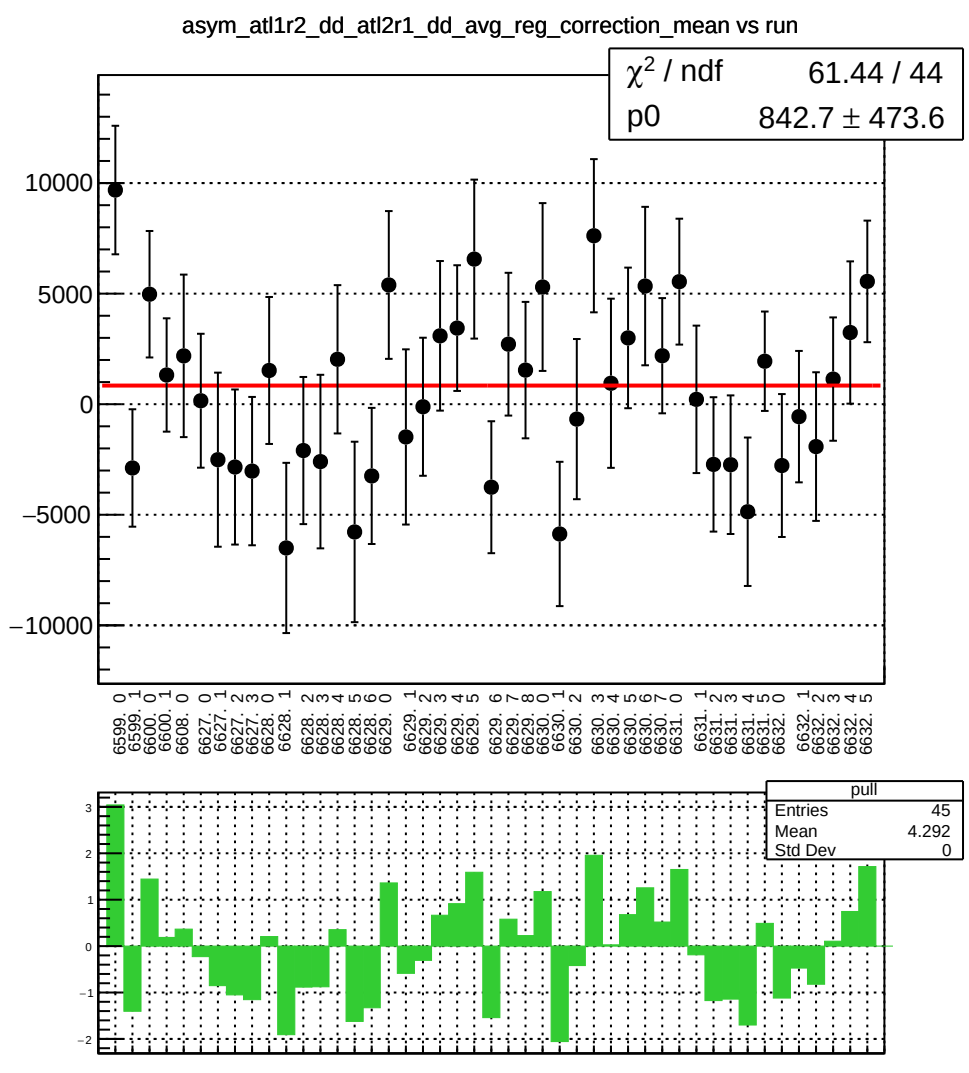
asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 61.44 / 44
p0 842.7 ± 473.6
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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6631. 2
6631. 3
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6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 4.292
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.035
Std Dev 1.168
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4
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1
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−6
−4
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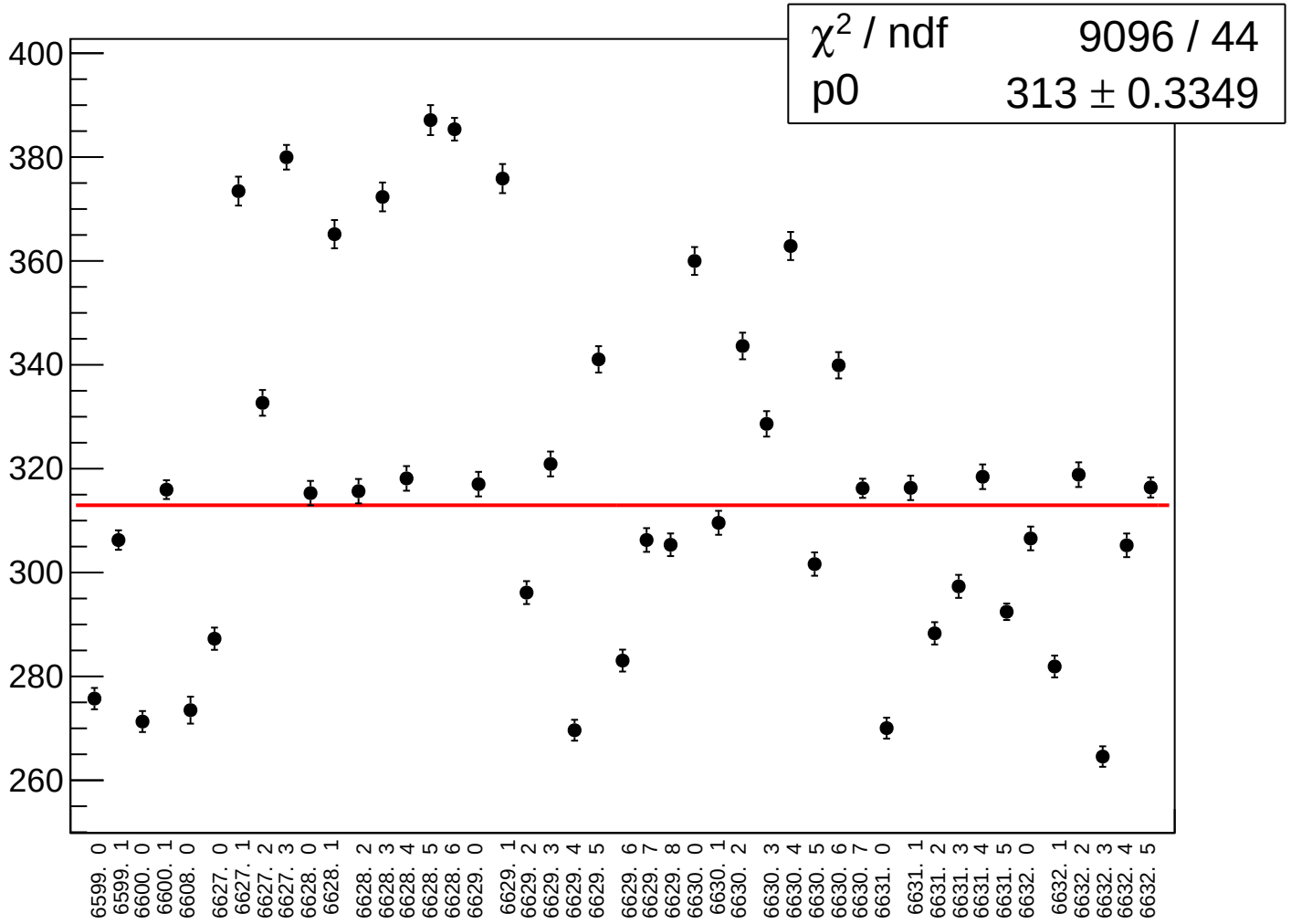
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 9096 / 44
p0 313 ± 0.3349
400
380
360
340
320
300
280
260
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 2
6627. 3
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6629. 2
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6630. 1
6630. 2
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6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6632. 0
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6632. 2
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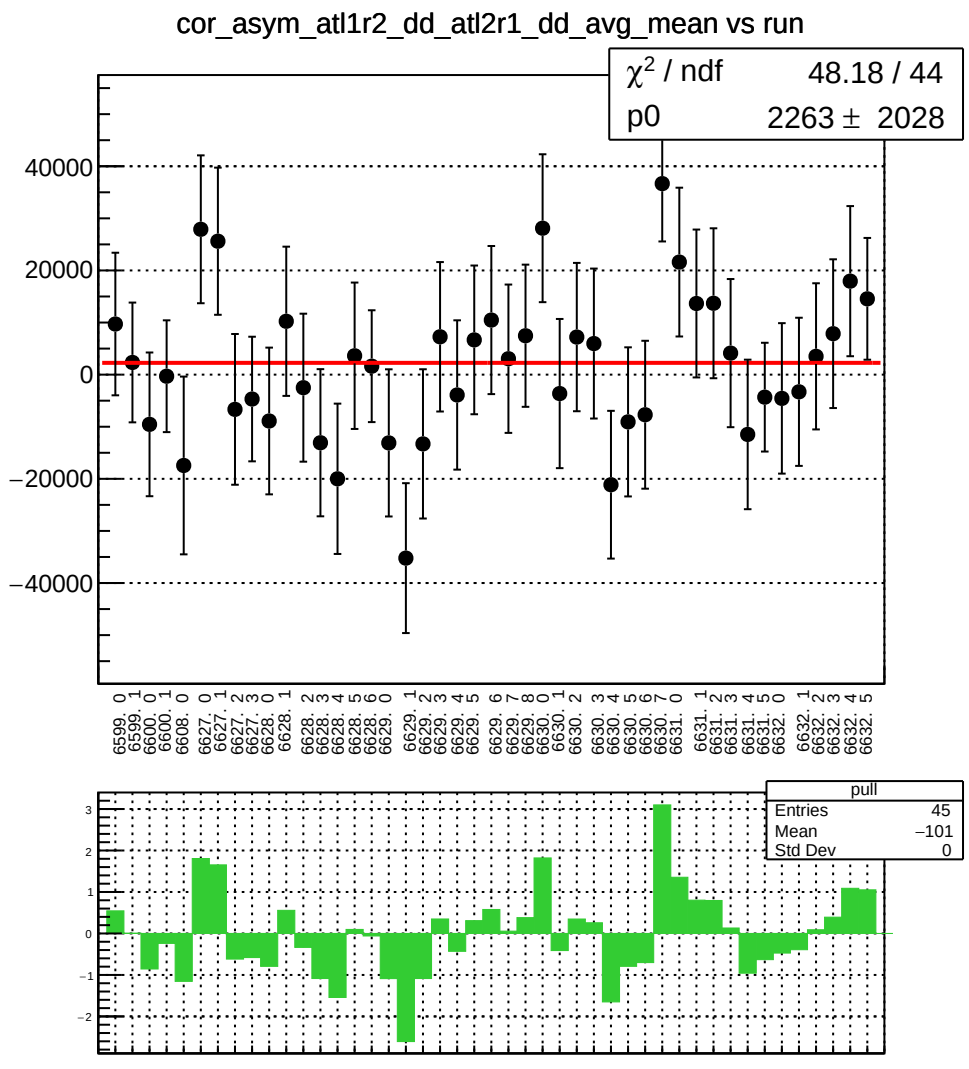
6632. 4
6632. 5


cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 48.18 / 44
p0 2263 ± 2028
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
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6631. 2
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6631. 4
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6632. 0
6632. 1
6632. 2
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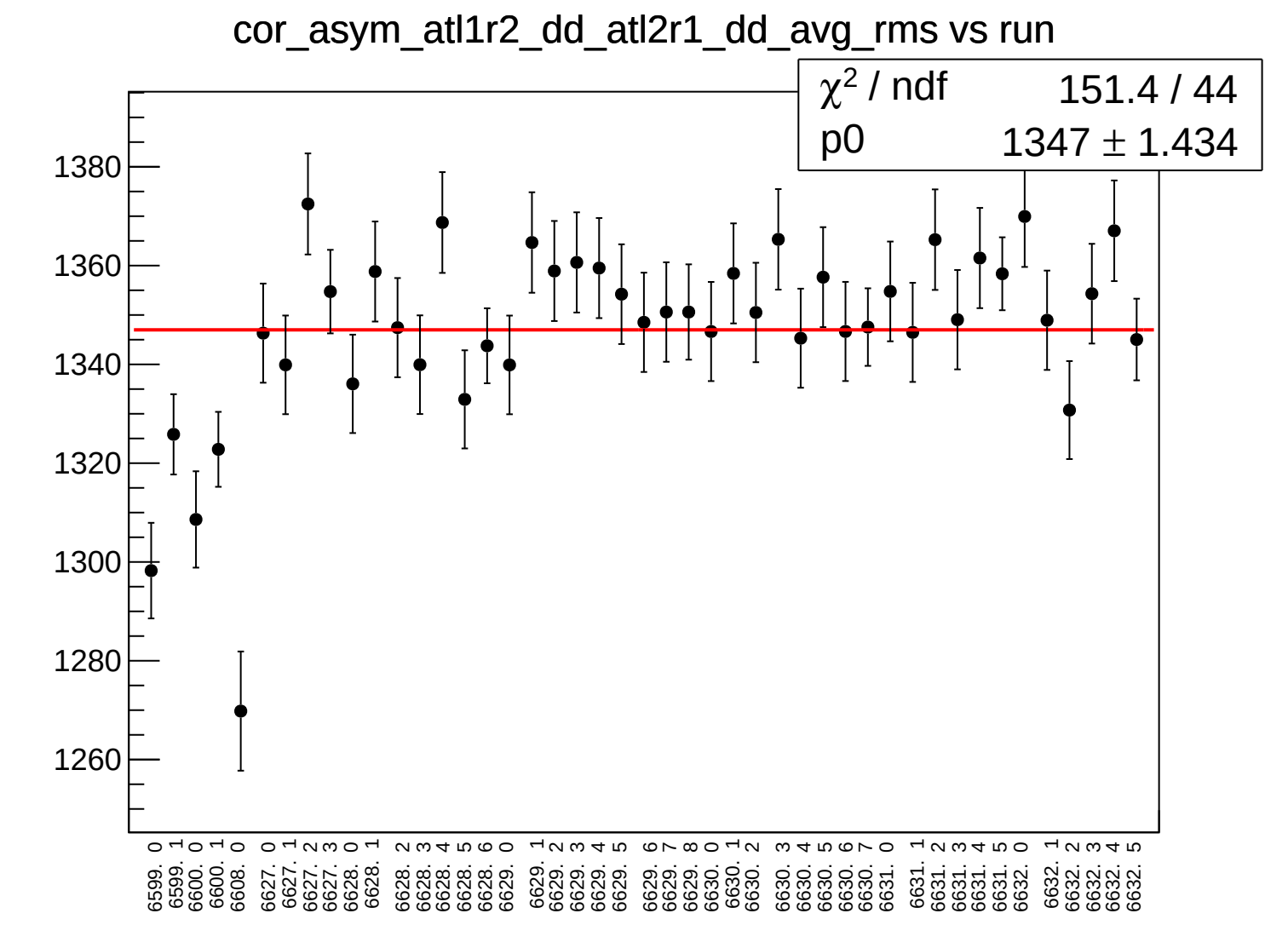
6632. 4
6632. 5
pull
Entries 45
Mean −101
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02035
Std Dev 1.034
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 151.4 / 44
p0 1347 ± 1.434
1380
1360
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1320
1300
1280
1260
6599. 0
6599. 1
6600. 0
6600. 1
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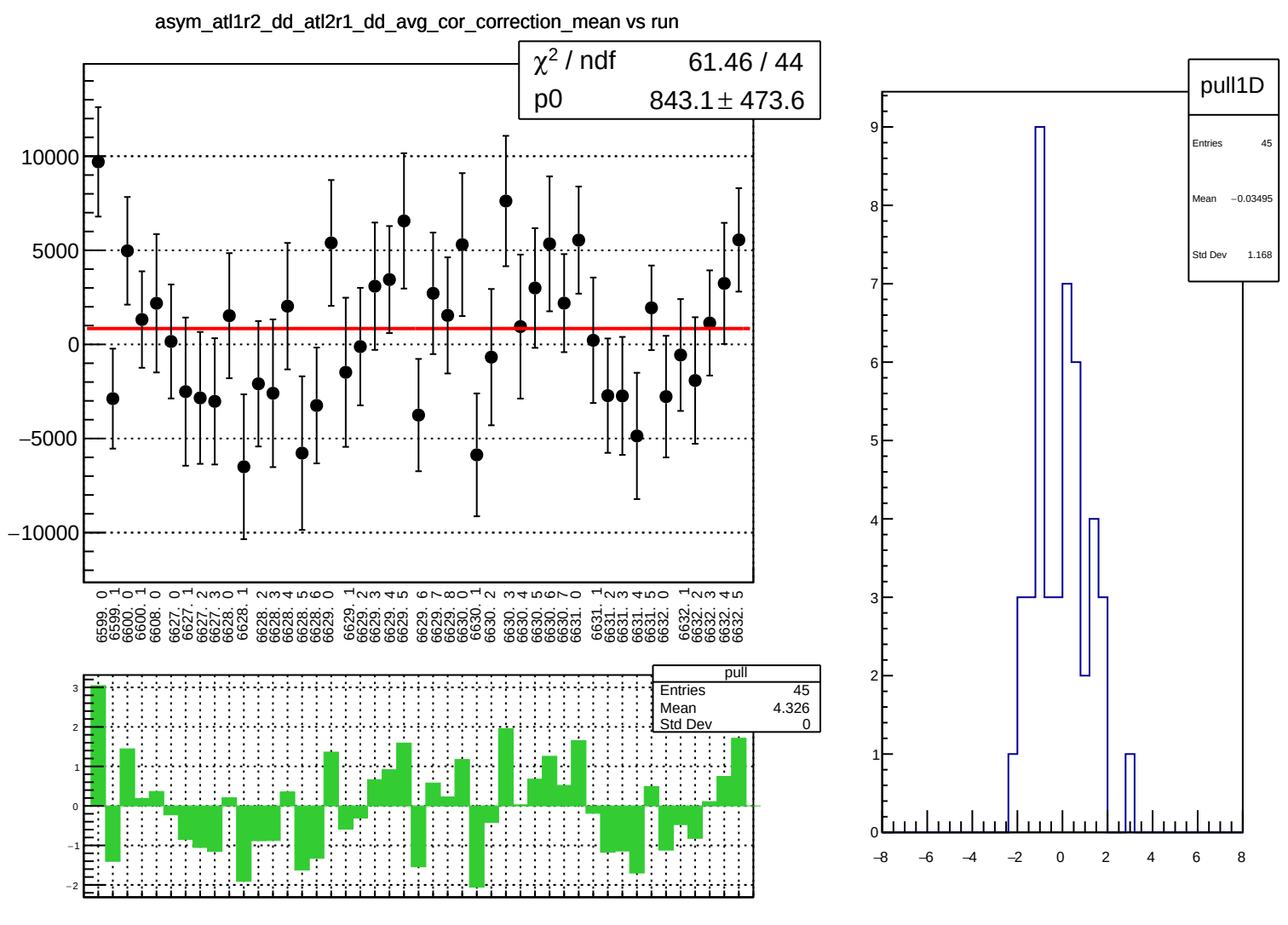
asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 61.46 / 44
p0 843.1 ± 473.6
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6630. 2
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 4.326
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.03495
Std Dev 1.168
9
8
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6
5
4
3
2
1
0
−8
−6
−4
−2
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2
4
6
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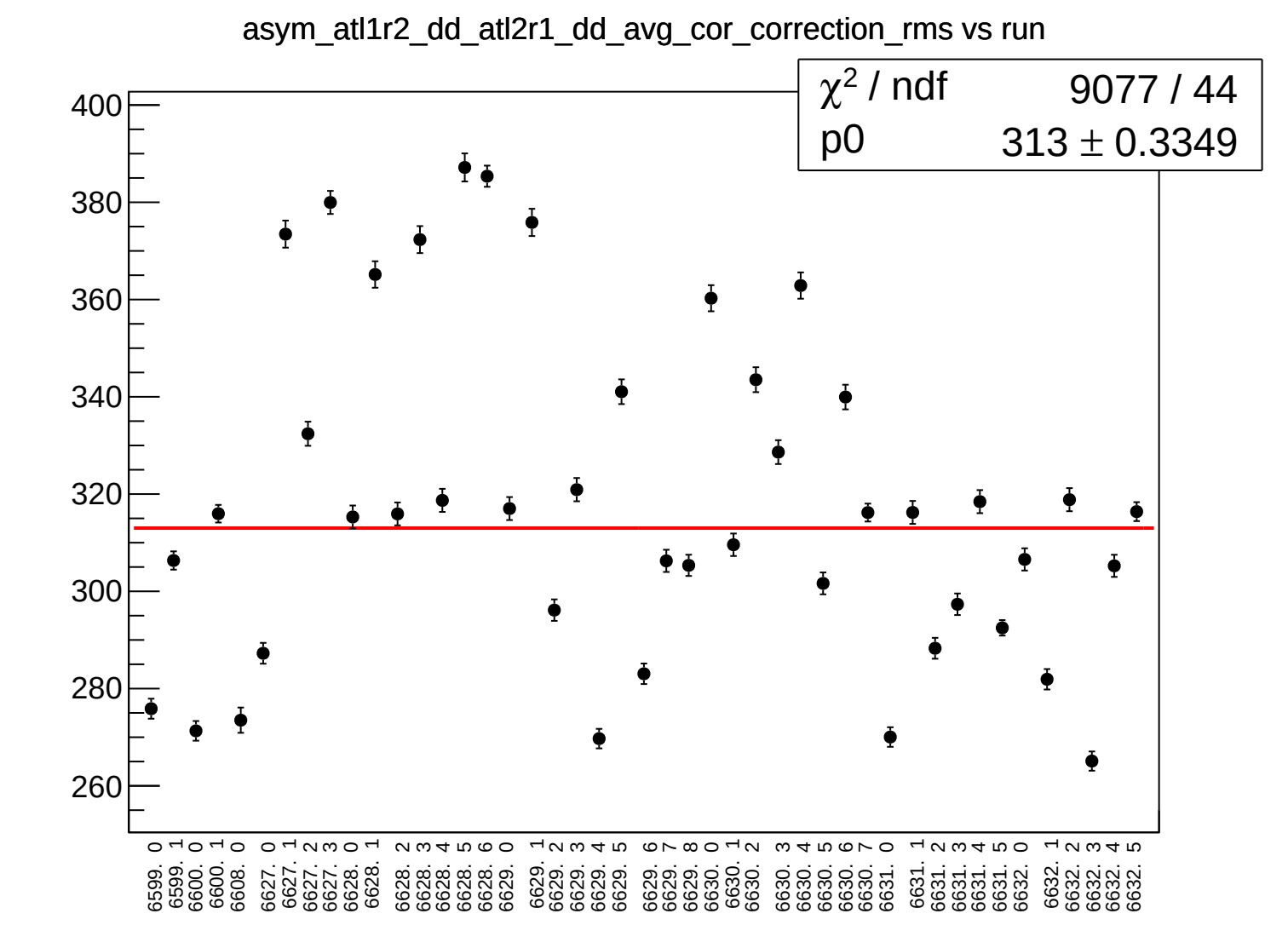
asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 9077 / 44
p0 313 ± 0.3349
400
380
360
340
320
300
280
260
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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6630. 0
6630. 1
6630. 2
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6630. 7
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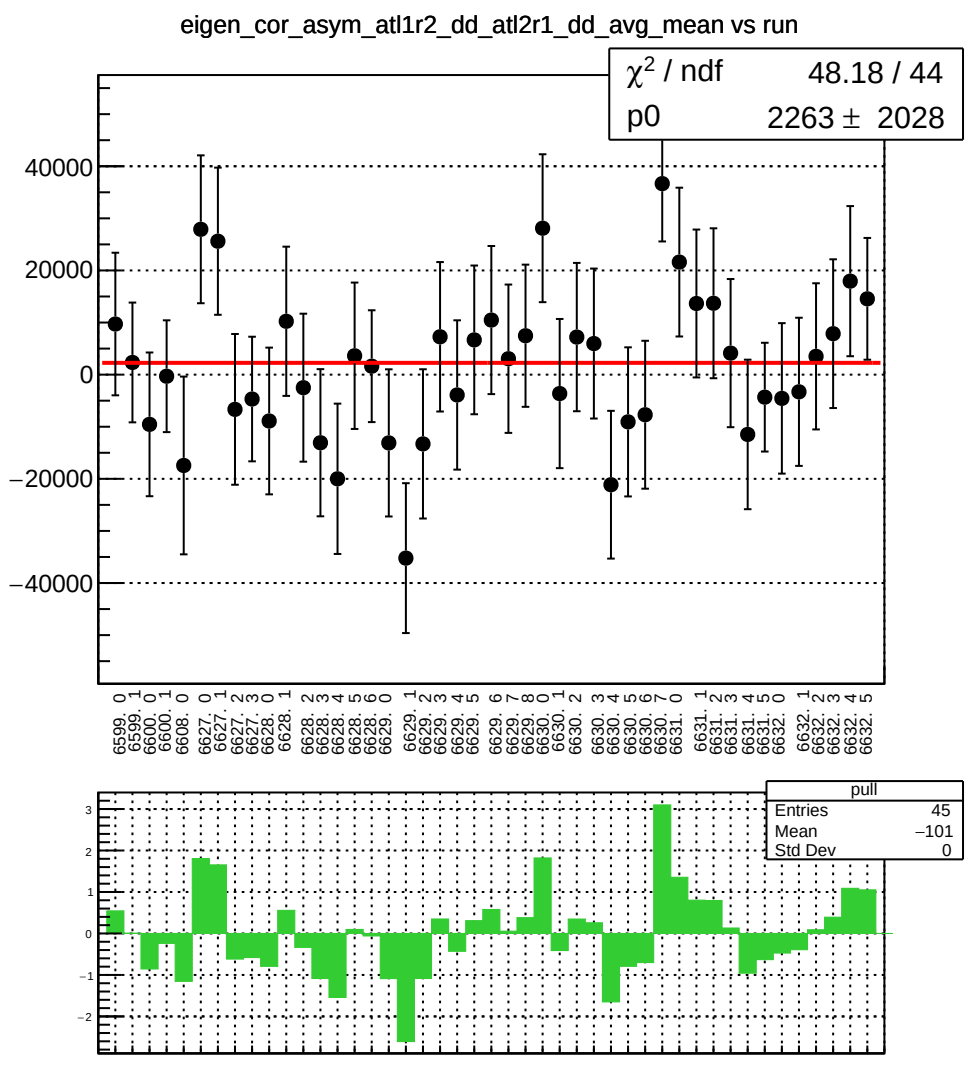
6632. 5


eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 48.18 / 44
p0 2263 ± 2028
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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6631. 5
6632. 0
6632. 1
6632. 2
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6632. 4
6632. 5
pull
Entries 45
Mean −101
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02035
Std Dev 1.034
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8
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6
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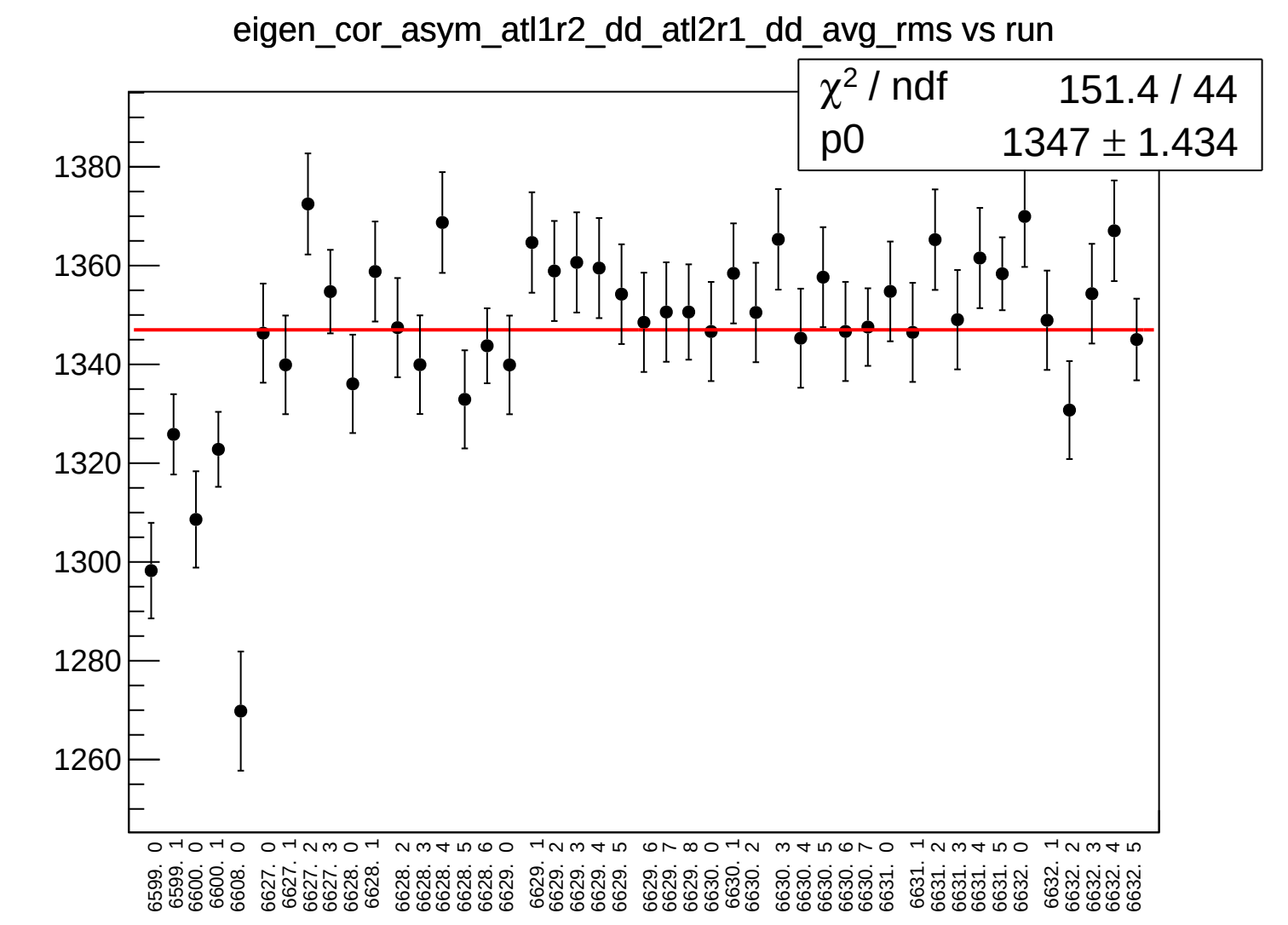
eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 151.4 / 44
p0 1347 ± 1.434
1380
1360
1340
1320
1300
1280
1260
6599. 0
6599. 1
6600. 0
6600. 1
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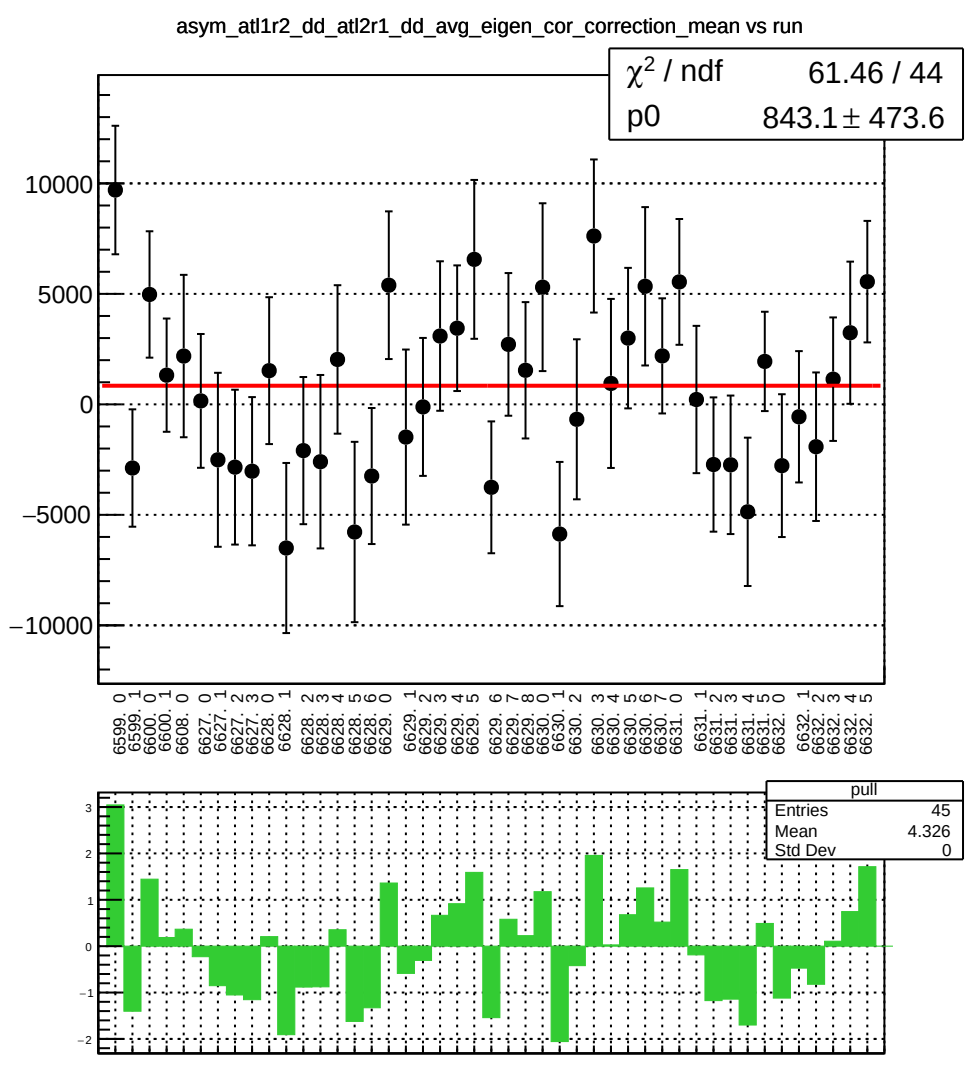
asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 61.46 / 44
p0 843.1 ± 473.6
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
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6627. 3
6628. 0
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6628. 6
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6630. 2
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6631. 2
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6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 4.326
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.03495
Std Dev 1.168
9
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6
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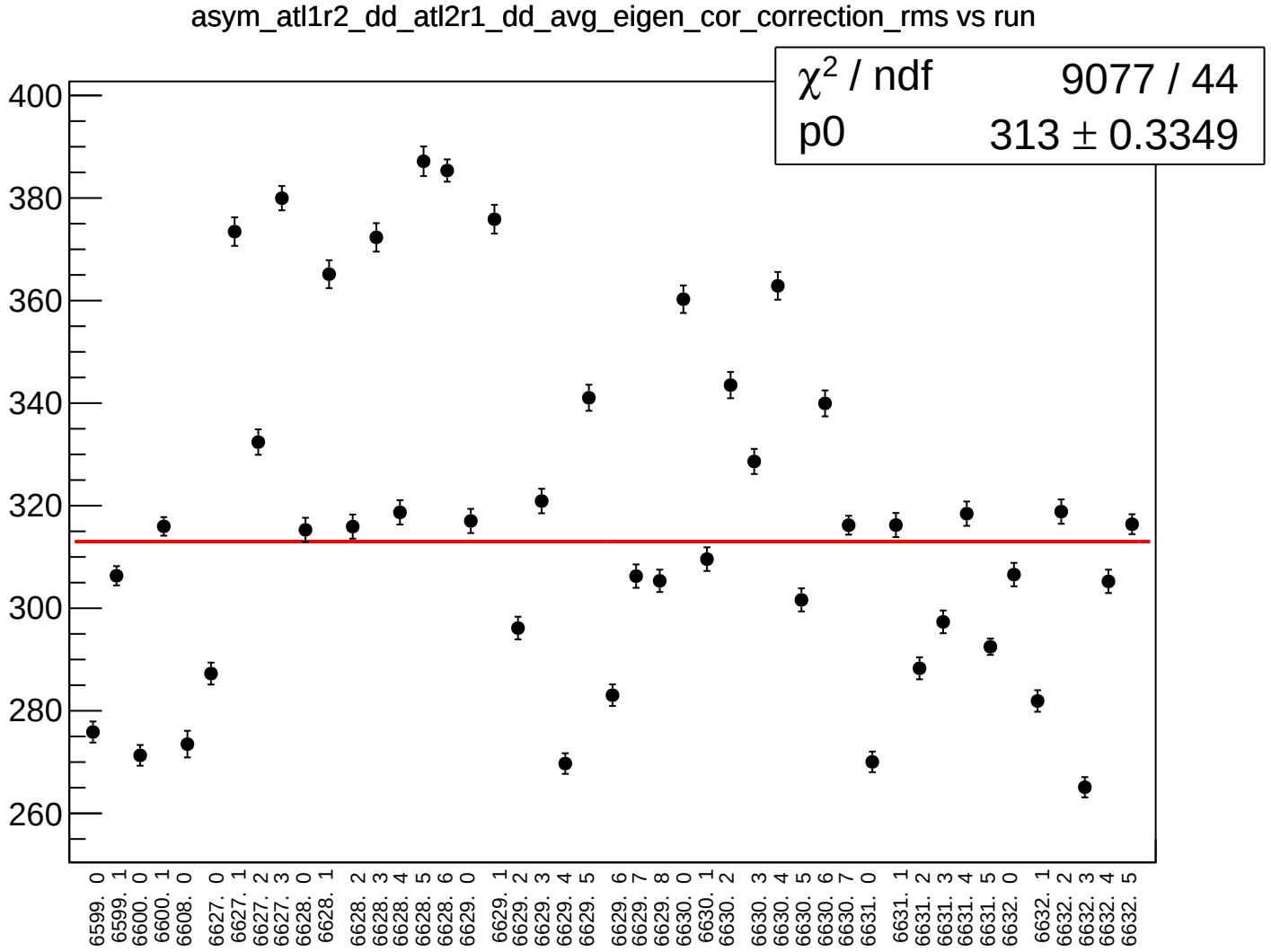
asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 9077 / 44
p0 313 ± 0.3349
400
380
360
340
320
300
280
260
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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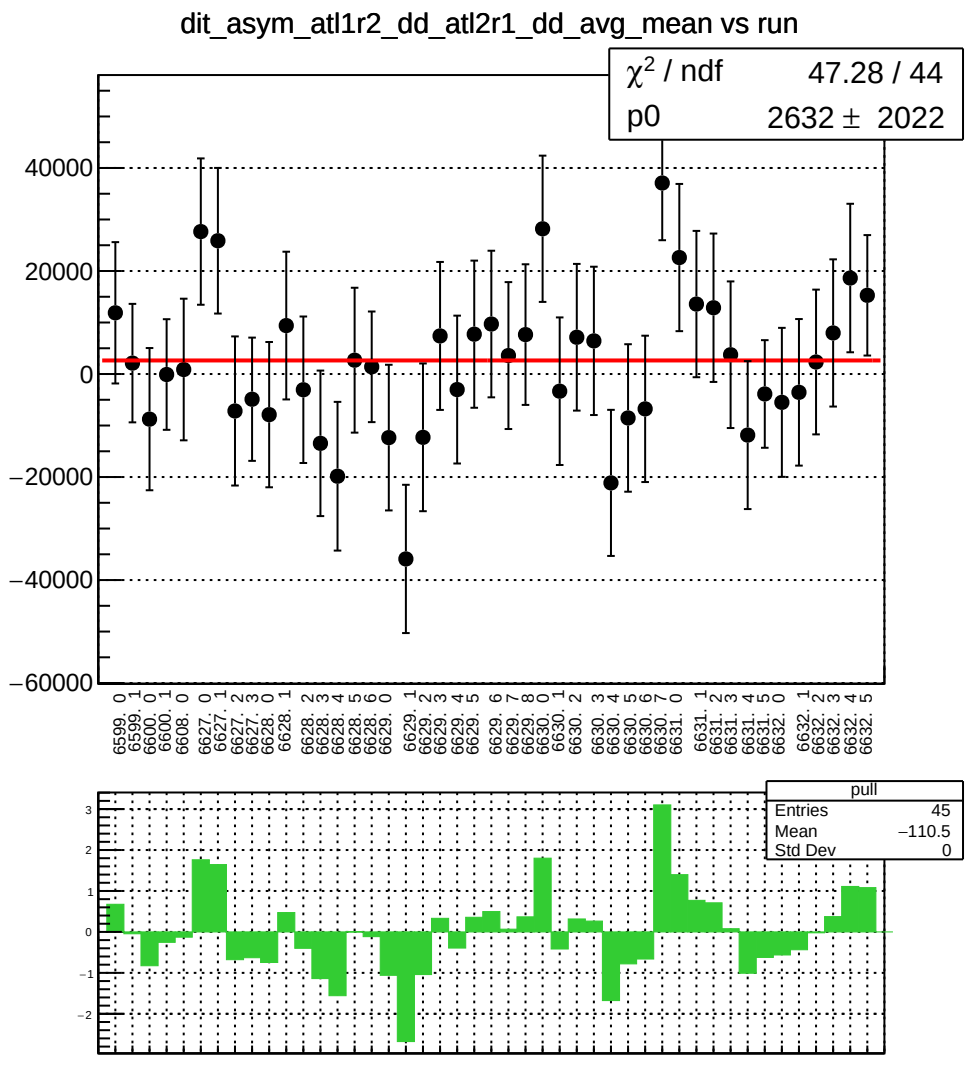
dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 47.28 / 44
p0 2632 ± 2022
40000
20000
0
−20000
−40000
−60000
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6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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6628. 0
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6628. 5
6628. 6
6629. 0
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6629. 2
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6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −110.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01535
Std Dev 1.025
9
8
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5
4
3
2
1
0
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−4
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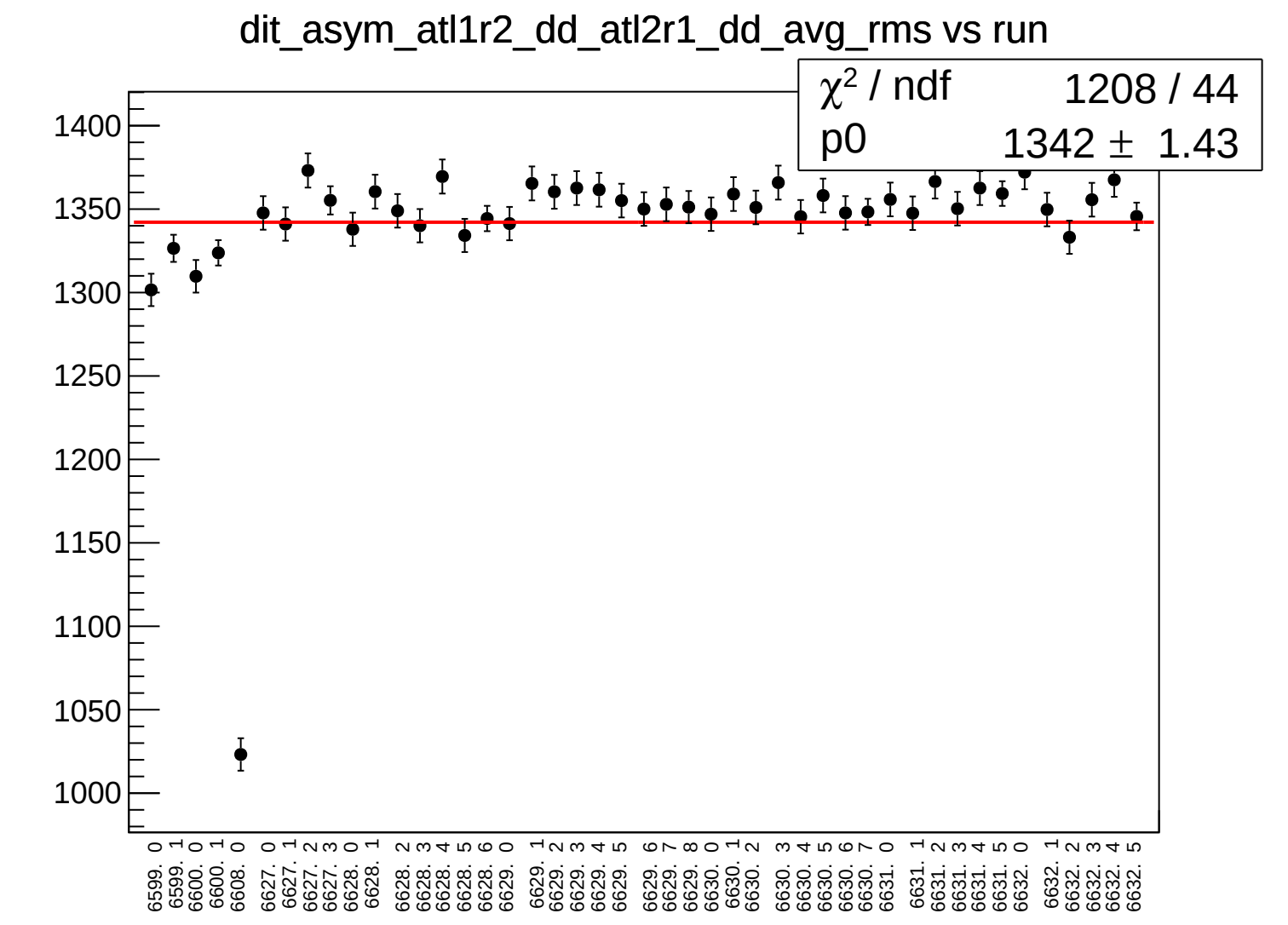
2
4
6
8


dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1208 / 44
p0 1342 ± 1.43
1400
1350
1300
1250
1200
1150
1100
1050
1000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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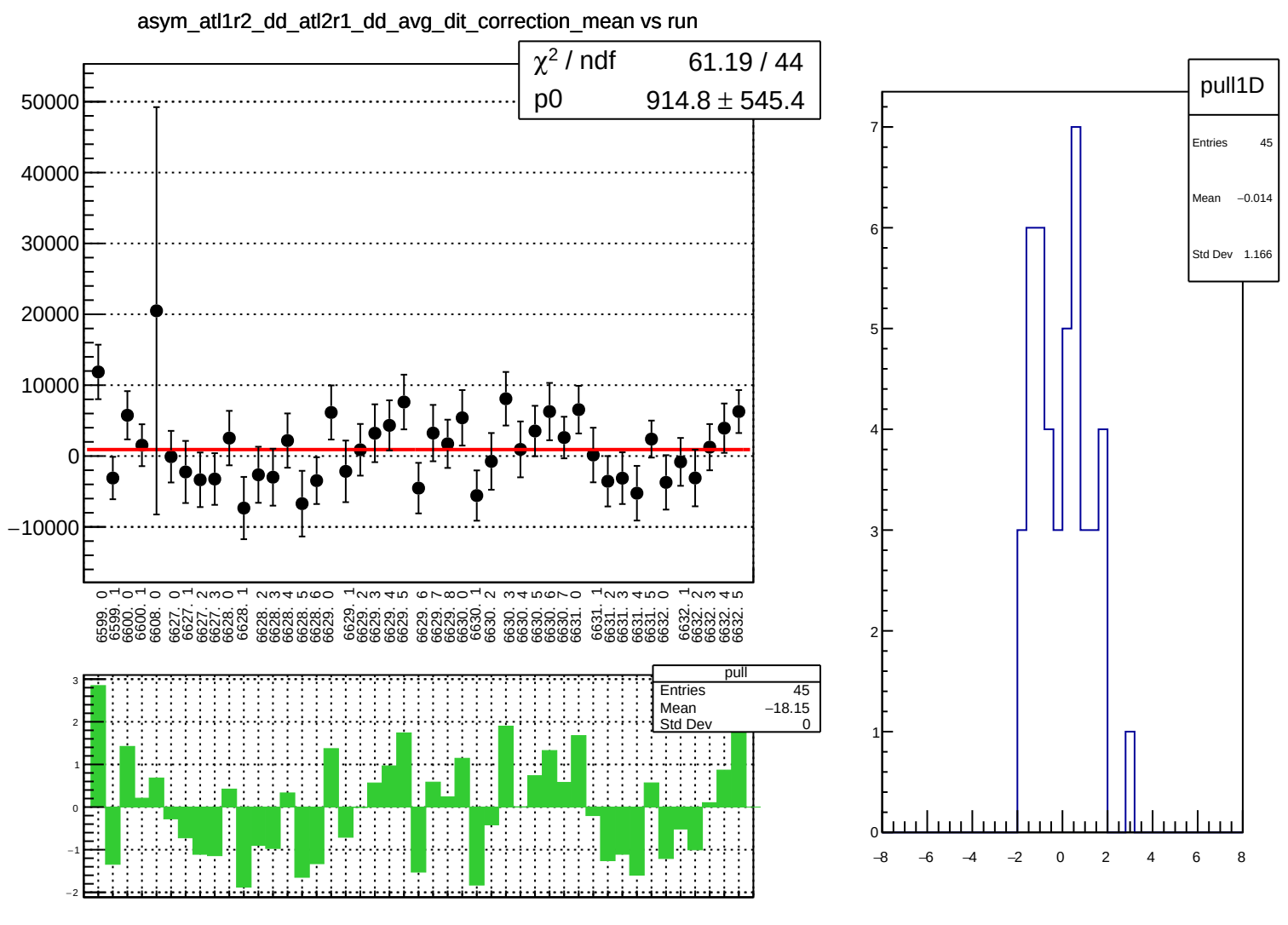
asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 61.19 / 44
p0 914.8 ± 545.4
50000
40000
30000
20000
10000
0
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6631. 2
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6631. 4
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6632. 0
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6632. 2
6632. 3
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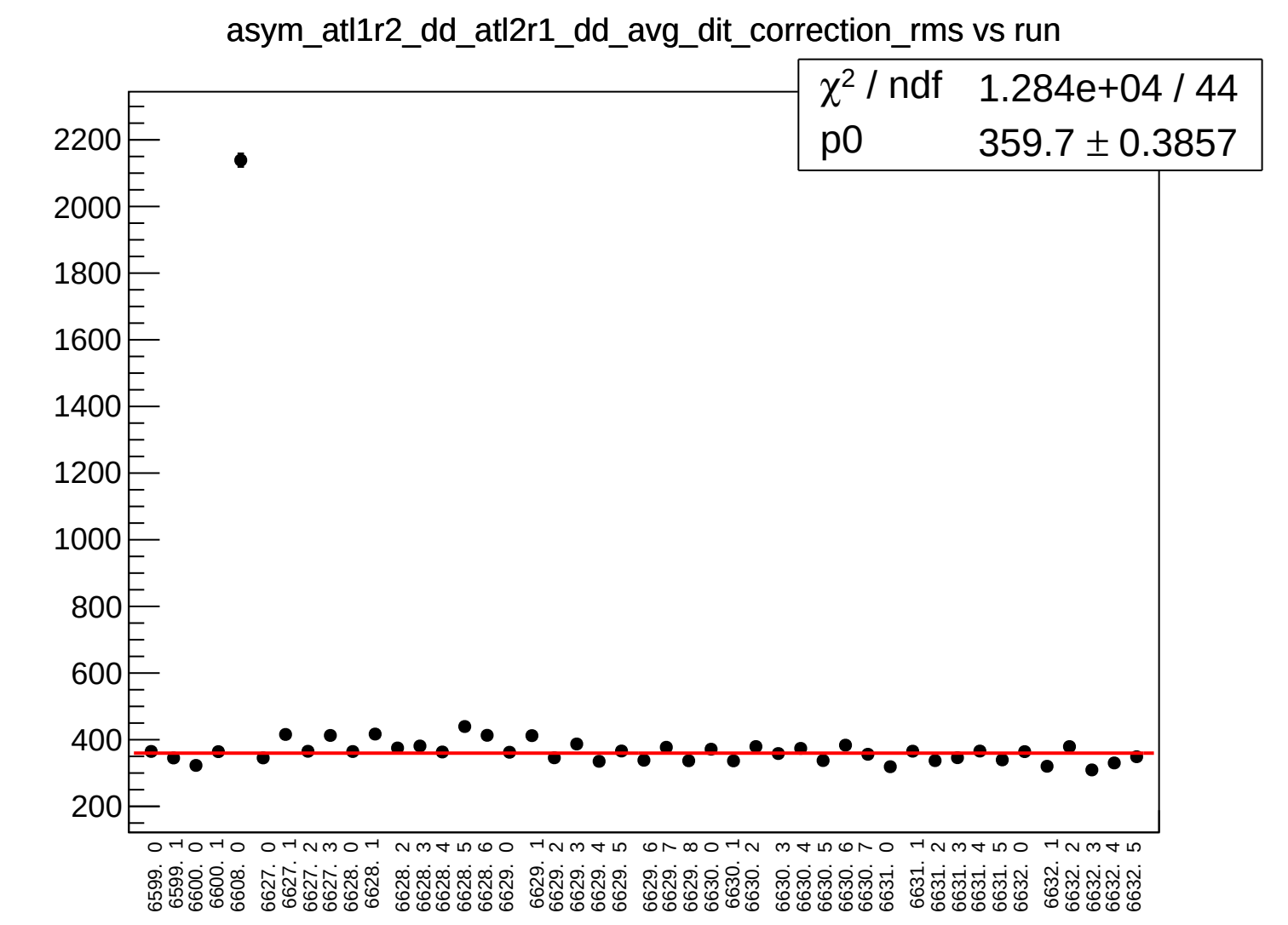
6632. 5
pull
Entries 45
Mean −18.15
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.014
Std Dev 1.166
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 1.284e+04 / 44
p0 359.7 ± 0.3857
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
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6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
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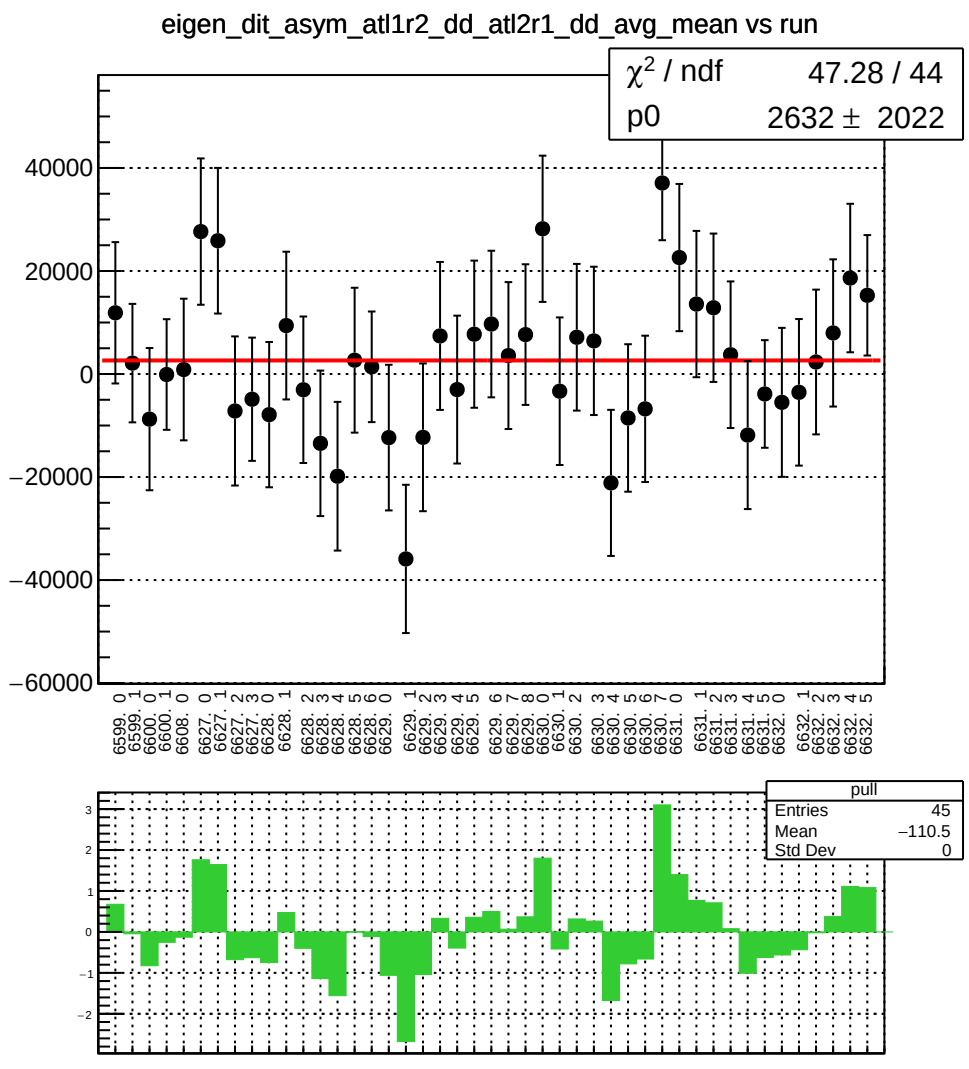
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 47.28 / 44
p0 2632 ± 2022
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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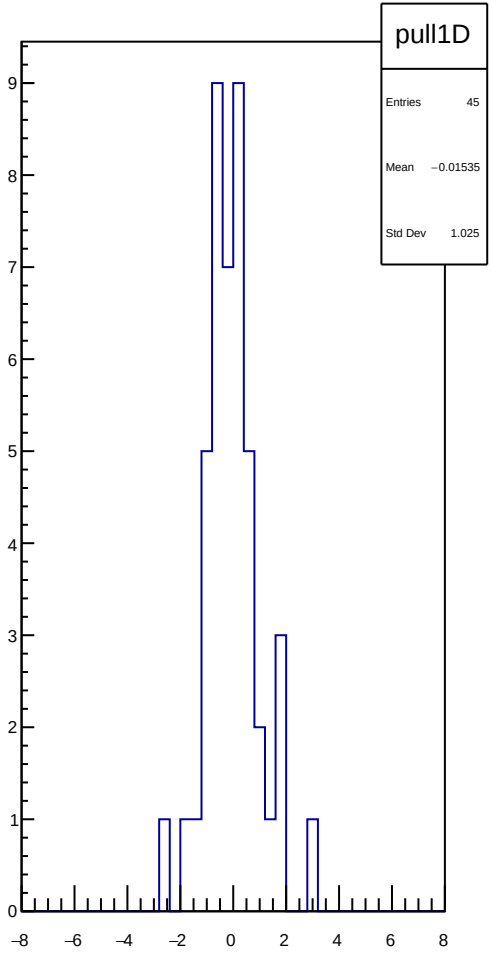
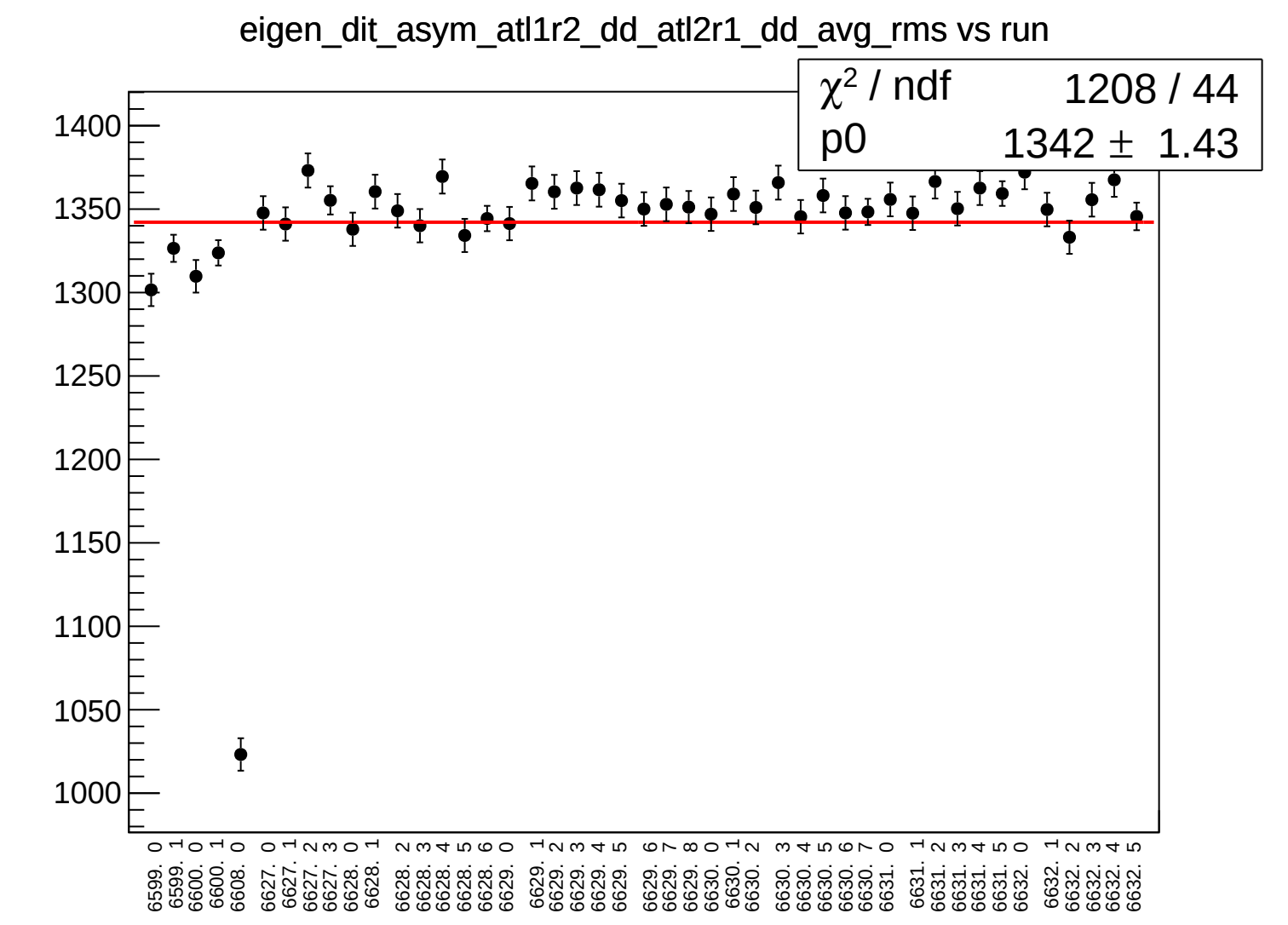
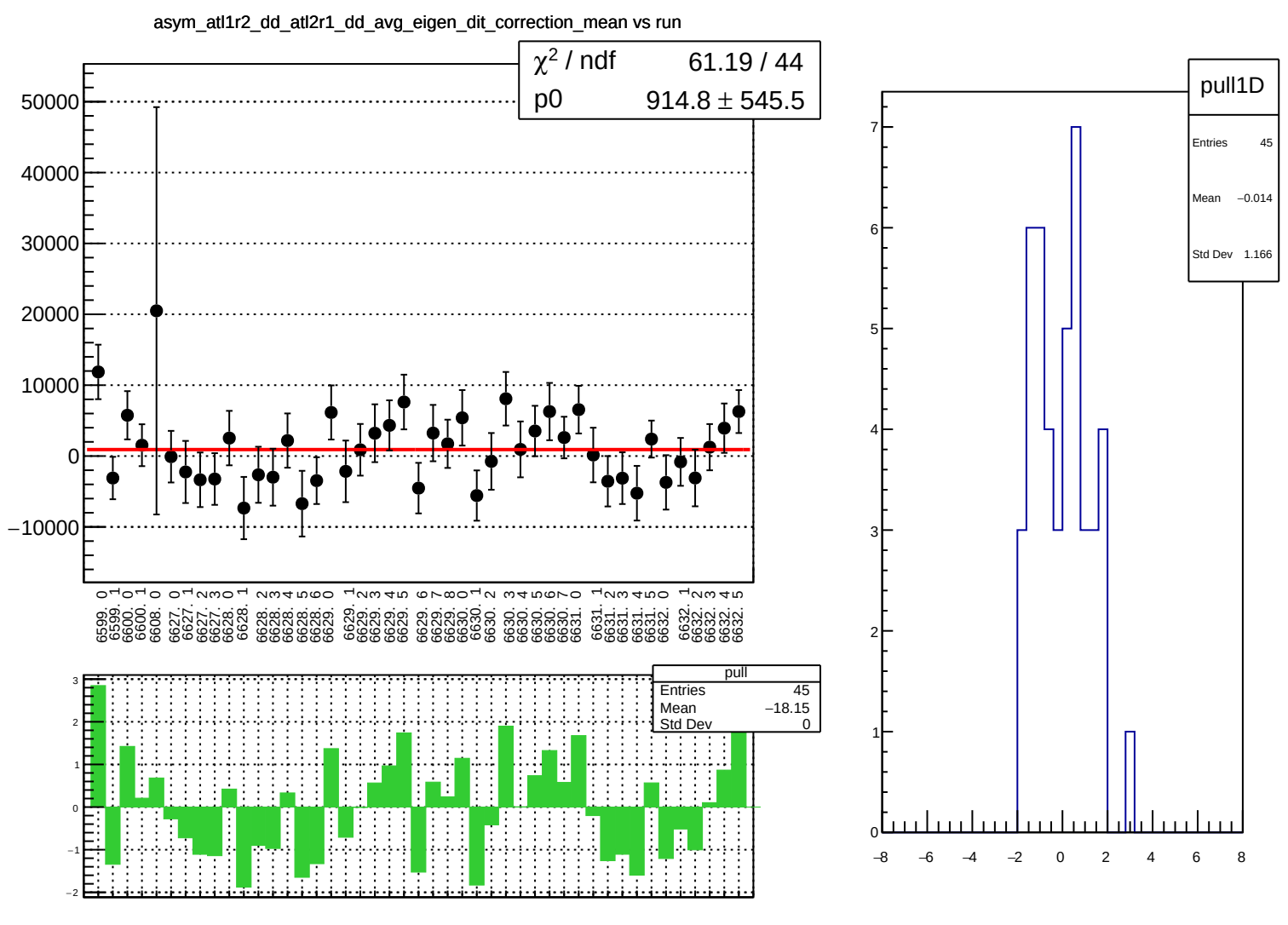
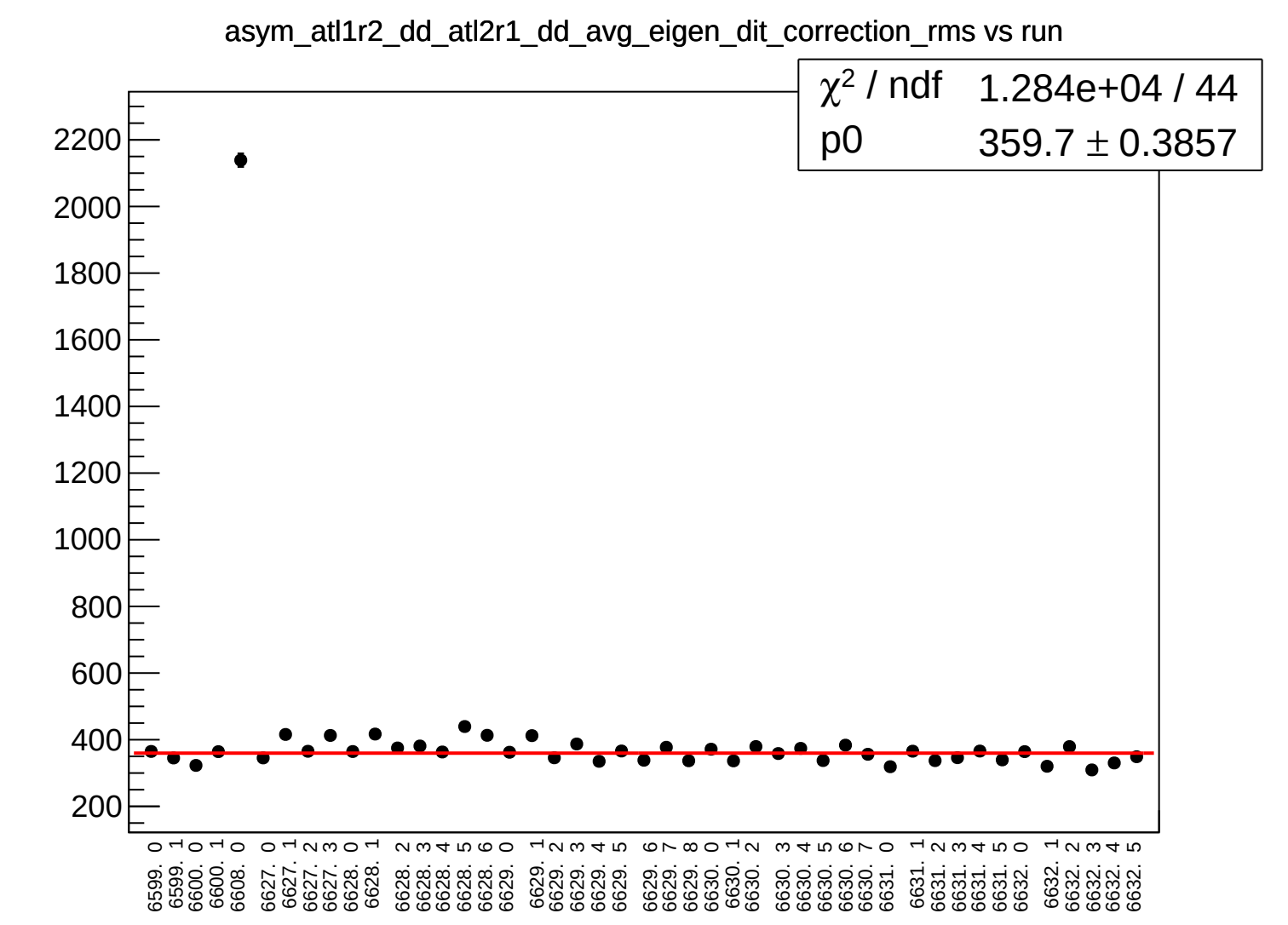
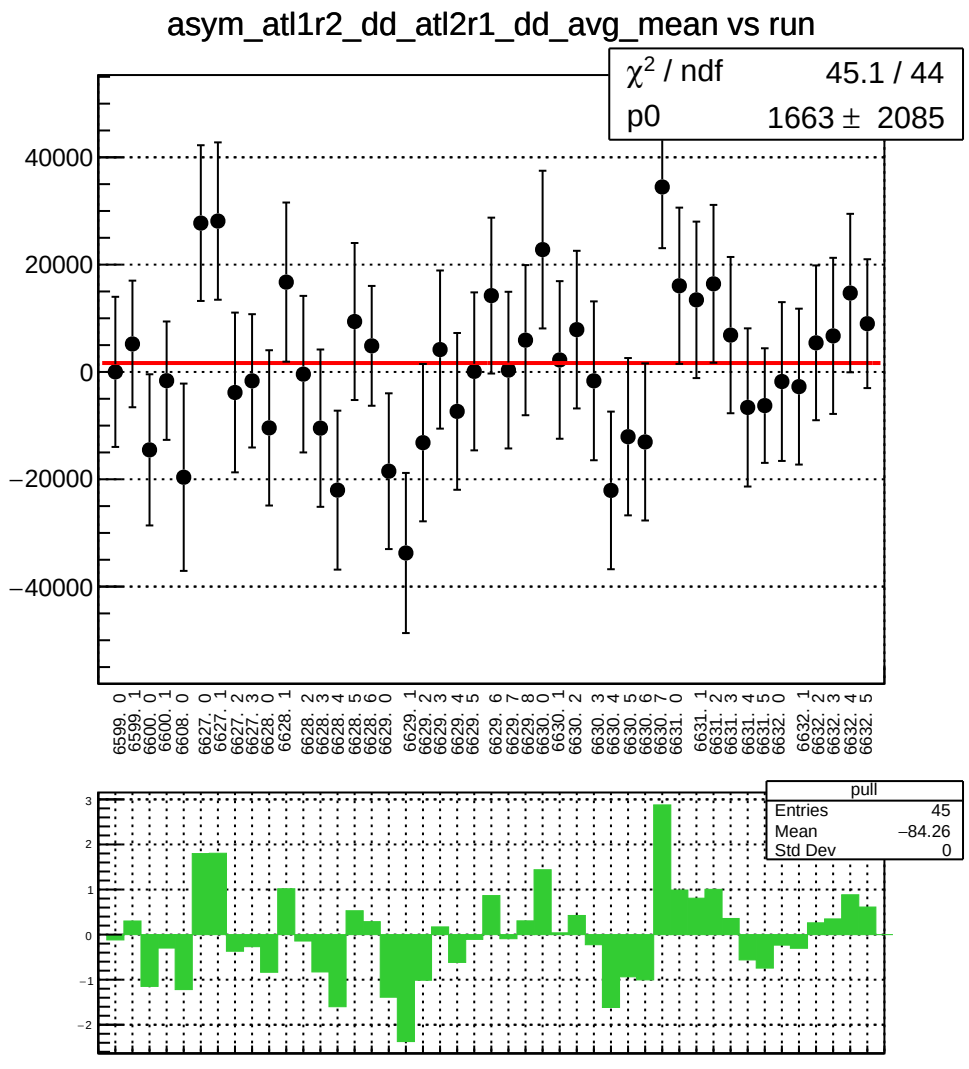
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −110.5
Std Dev 0
3
2
1
0
−1
−2

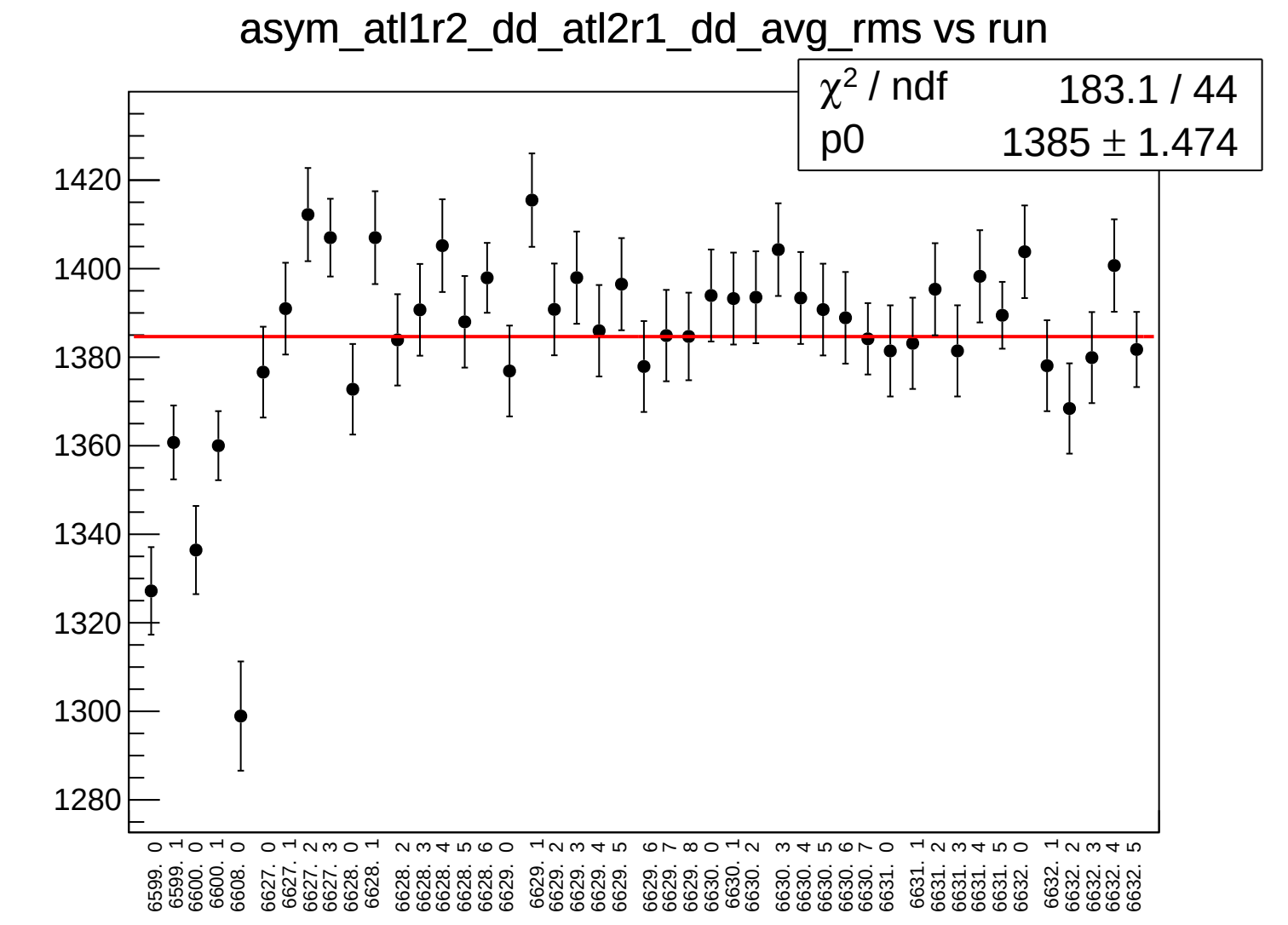

pull1D
Entries 45
Mean −0.01535
Std Dev 1.025
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

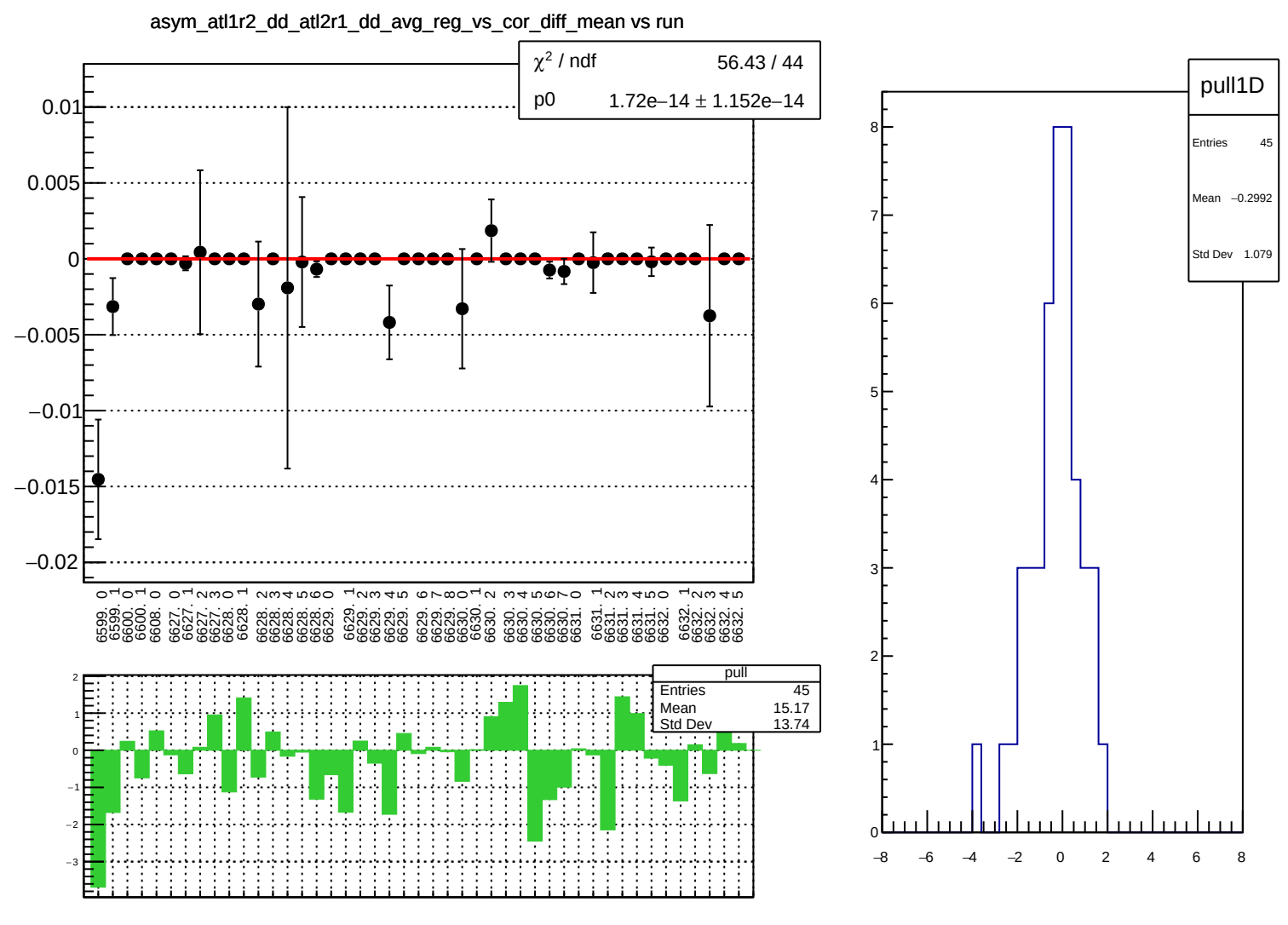

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1208 / 44
p0 1342 ± 1.43
1400
1350
1300
1250
1200
1150
1100
1050
1000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

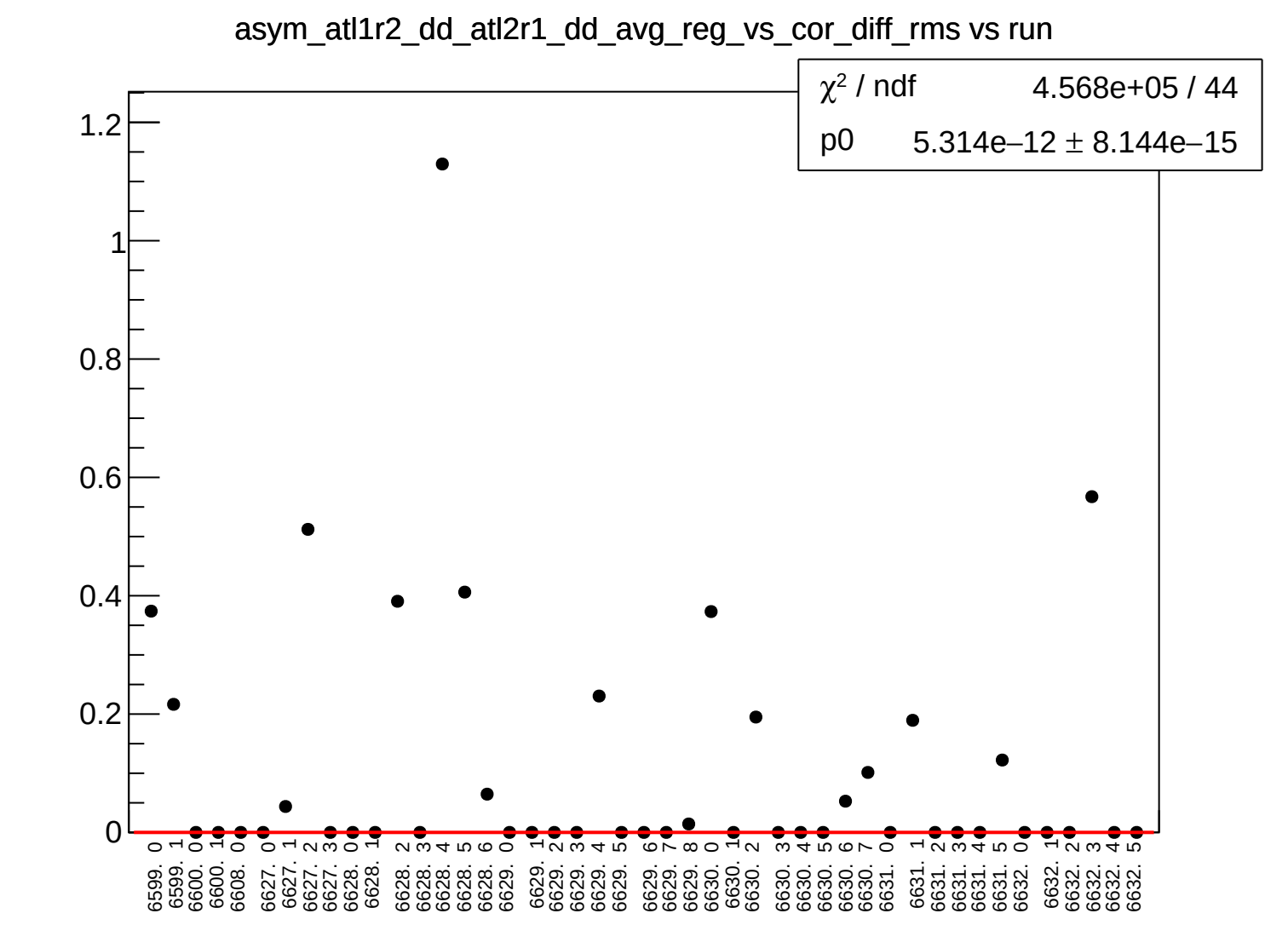

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 61.19 / 44
p0 914.8 ± 545.5
50000
40000
30000
20000
10000
0
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −18.15
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.014
Std Dev 1.166
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 1.284e+04 / 44
p0 359.7 ± 0.3857
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 45.1 / 44
p0 1663 ± 2085
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −84.26
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02038
Std Dev 1.001
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 183.1 / 44
p0 1385 ± 1.474
1420
1400
1380
1360
1340
1320
1300
1280
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 56.43 / 44
p0 1.72e−14 ± 1.152e−14
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 15.17
Std Dev 13.74
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.2992
Std Dev 1.079
8
7
6
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 4.568e+05 / 44
p0 5.314e−12 ± 8.144e−15
1.2
1
0.8
0.6
0.4
0.2
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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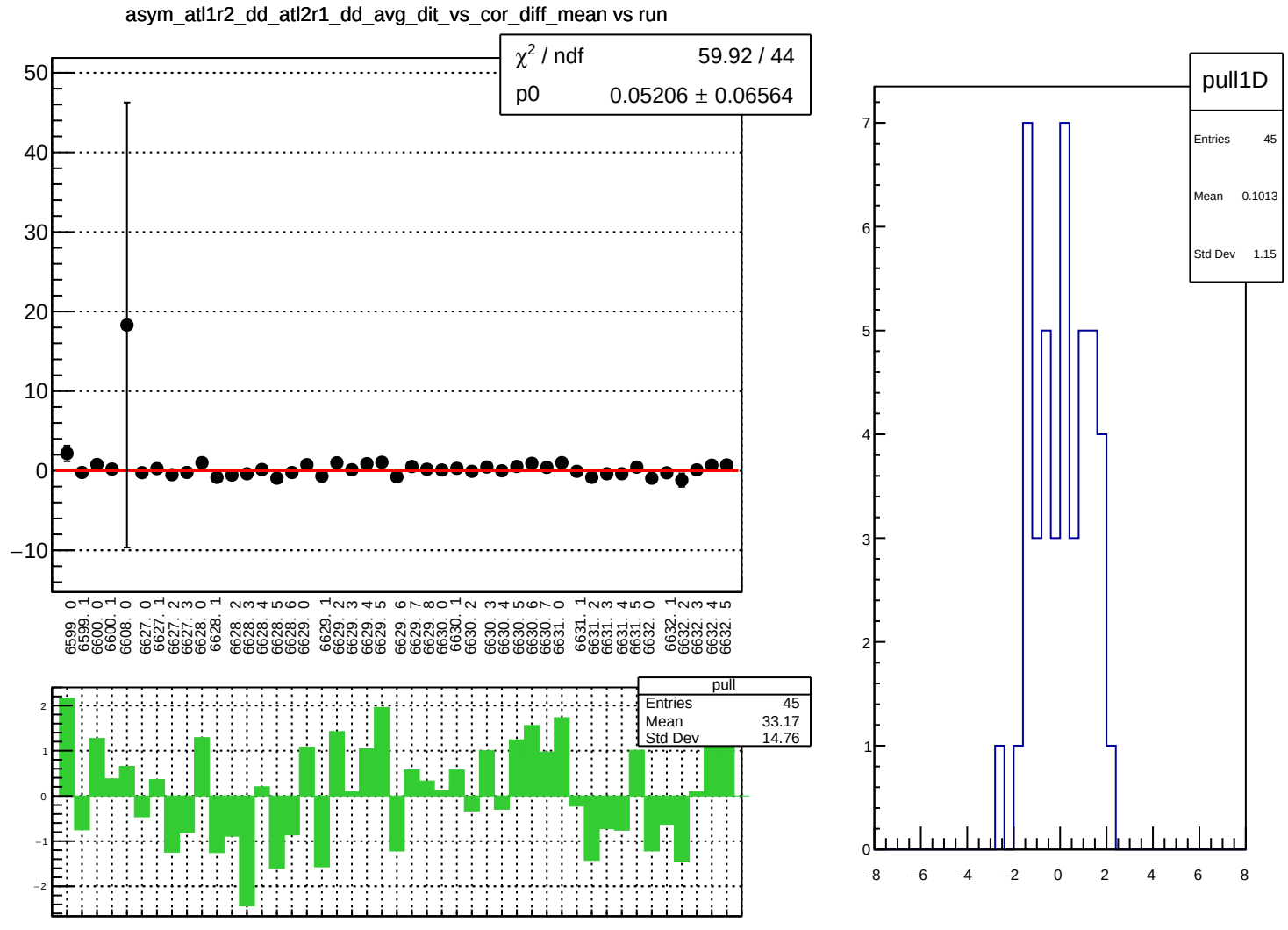
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 59.92 / 44
p0 0.05206 ± 0.06564
50
40
30
20
10
0
−10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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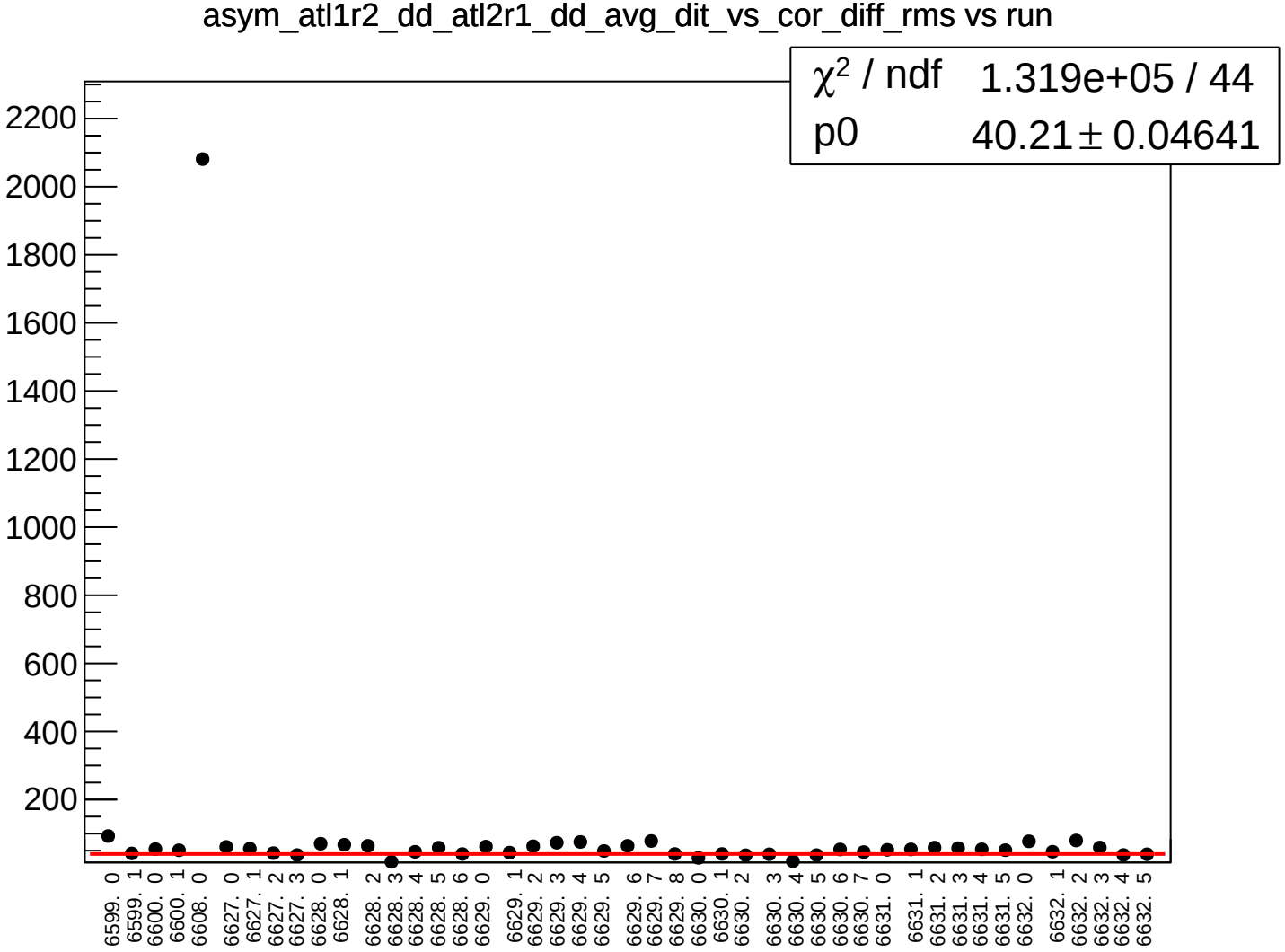
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 33.17
Std Dev 14.76
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.1013
Std Dev 1.15
7
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 1.319e+05 / 44
p0 40.21 ± 0.04641
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 4
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6629. 6
6629. 7
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6630. 0
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
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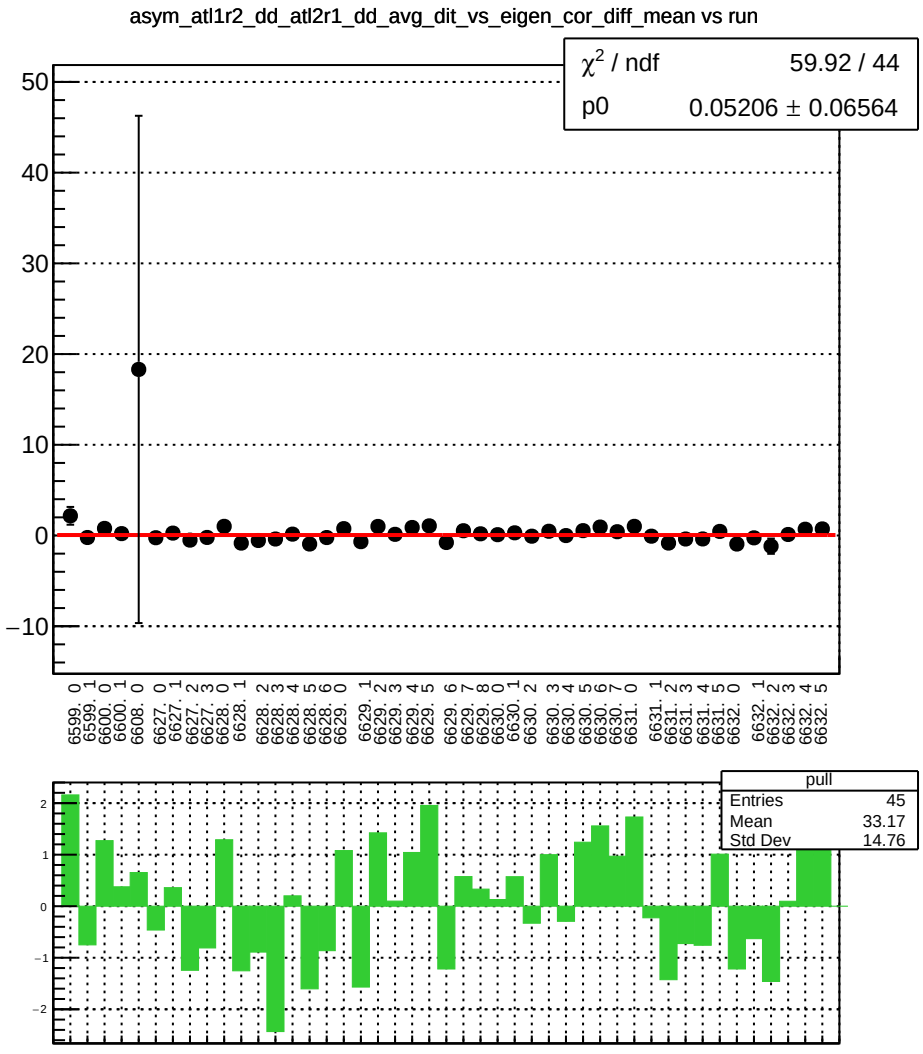
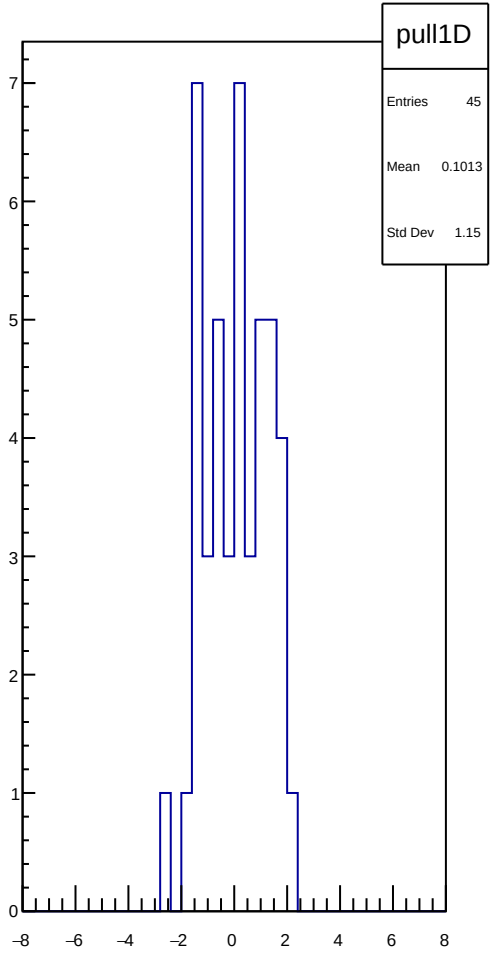
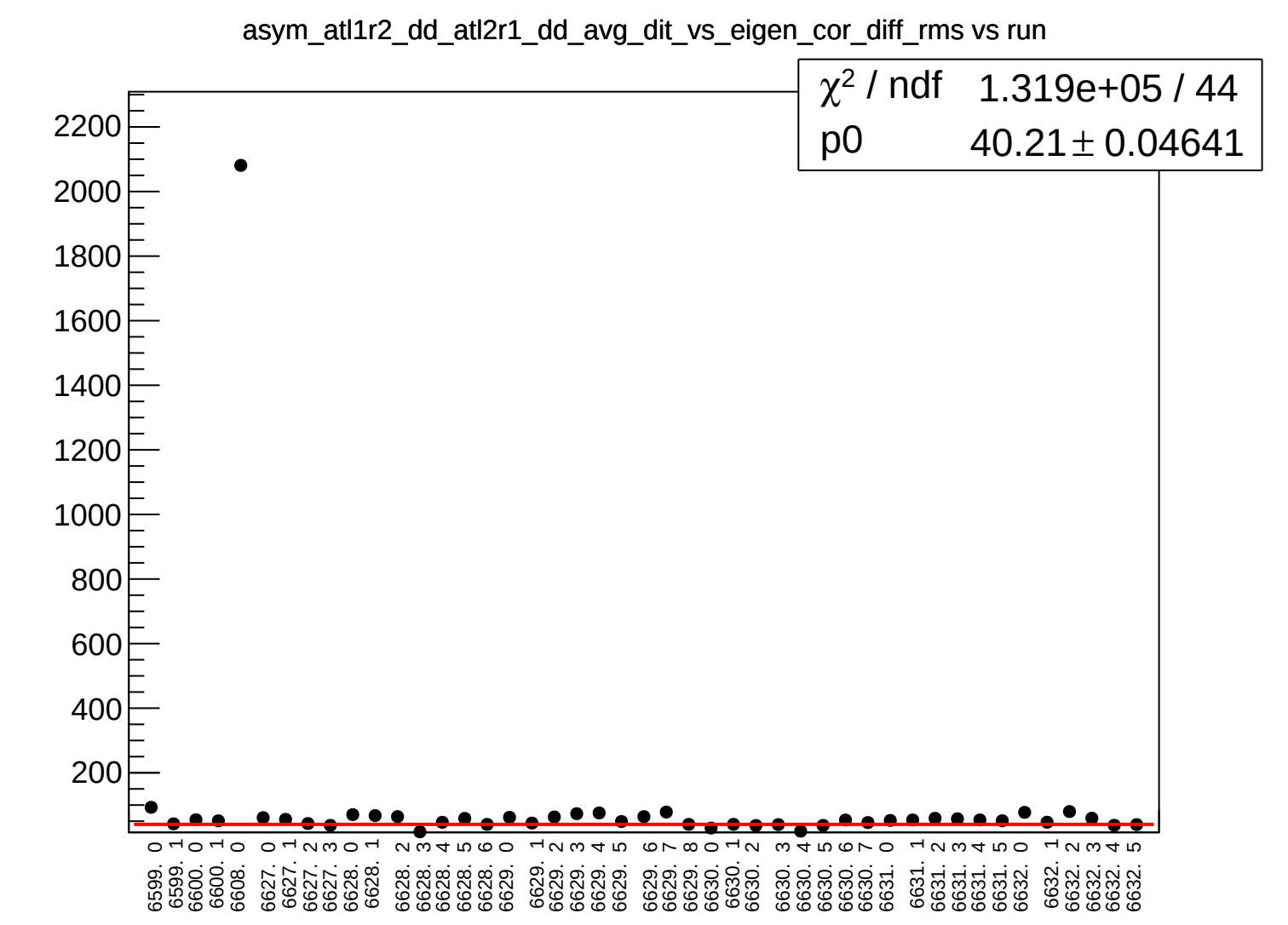
6632. 5


asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 59.92 / 44
p0 0.05206 ± 0.06564
pull
Entries 45
Mean 33.17
Std Dev 14.76


pull1D
Entries 45
Mean 0.1013
Std Dev 1.15


asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.319e+05 / 44
p0 40.21 ± 0.04641
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
6628. 3
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6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 4
6630. 5
6630. 6
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6631. 0
6631. 1
6631. 2
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6631. 5
6632. 0
6632. 1
6632. 2
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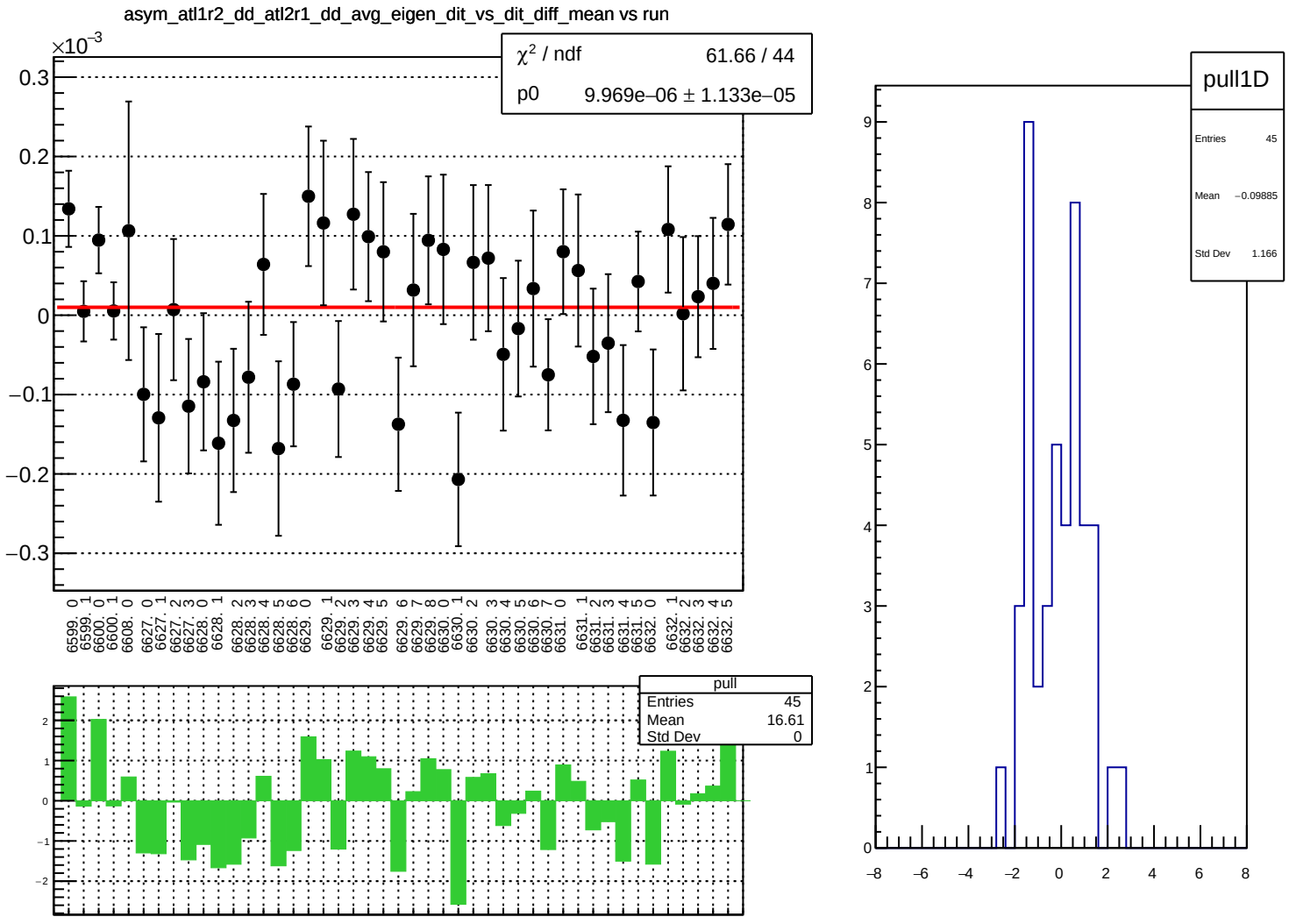
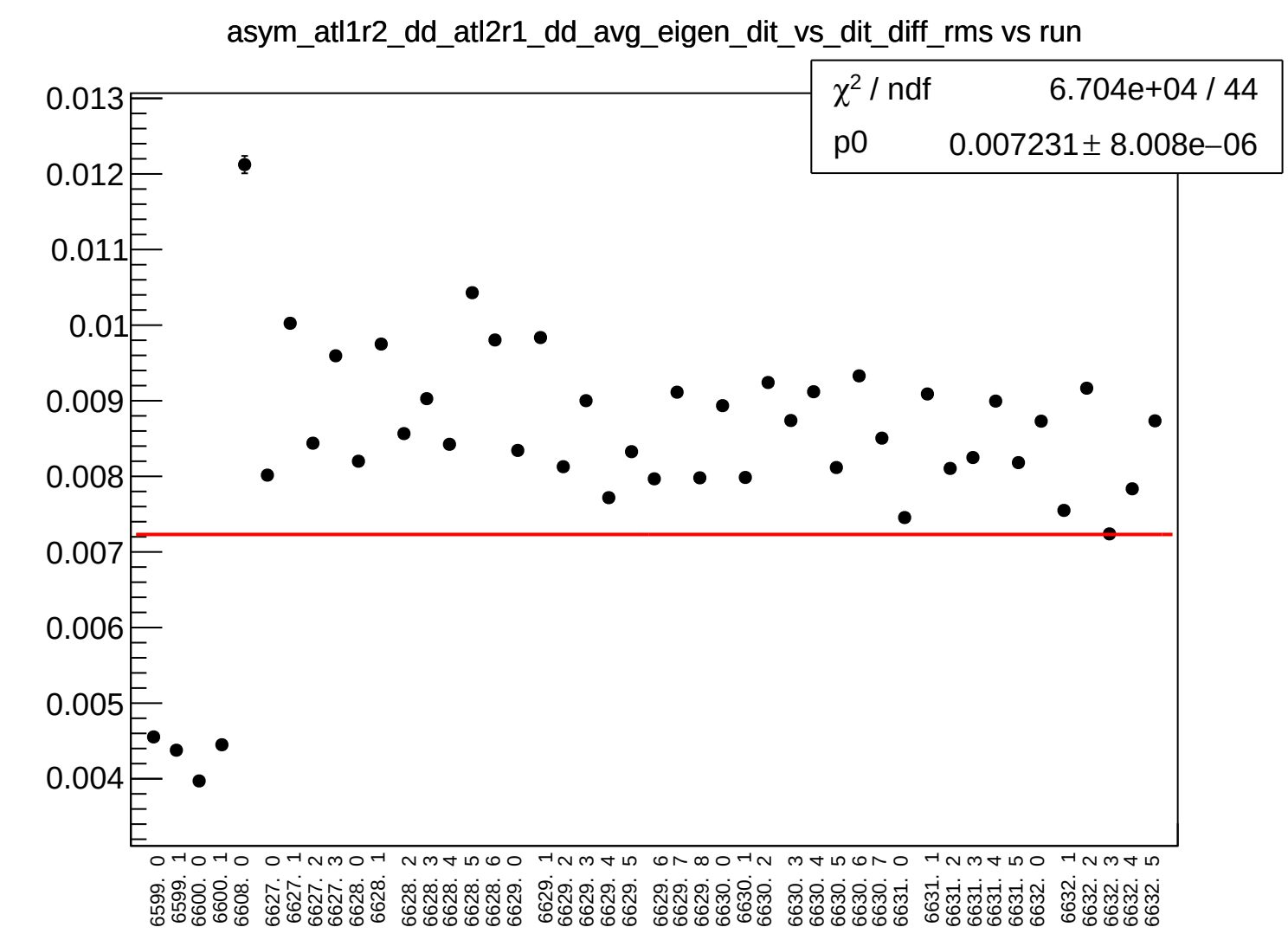
6632. 4
6632. 5


asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 61.66 / 44
p0 9.969e−06 ± 1.133e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 16.61
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.09885
Std Dev 1.166
9
8
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 6.704e+04 / 44
p0 0.007231 ± 8.008e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
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6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
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6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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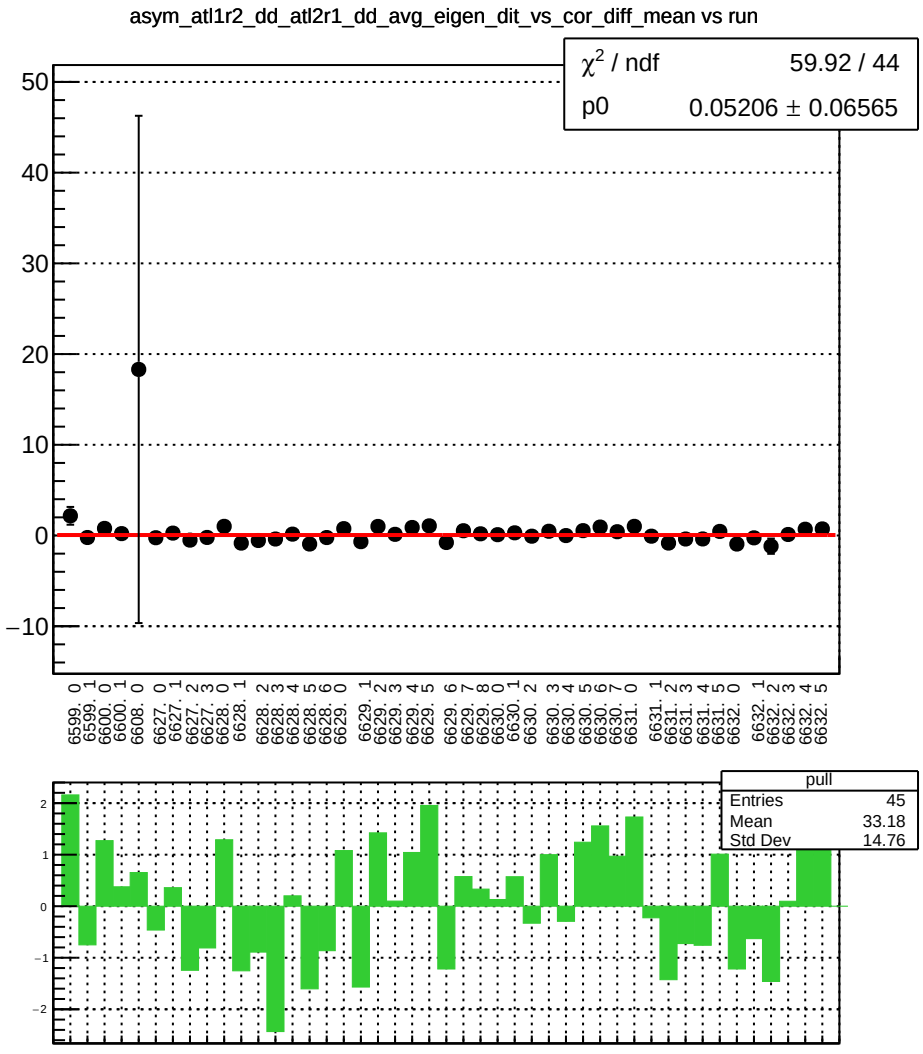
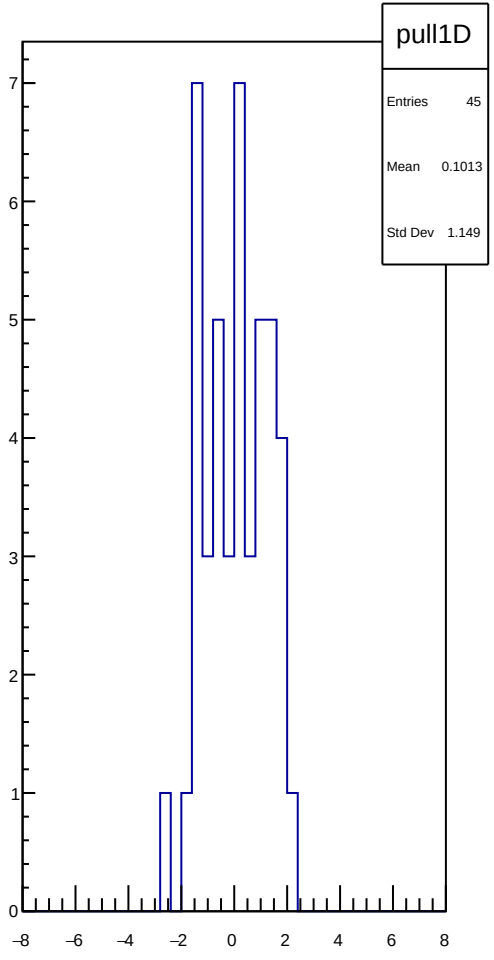
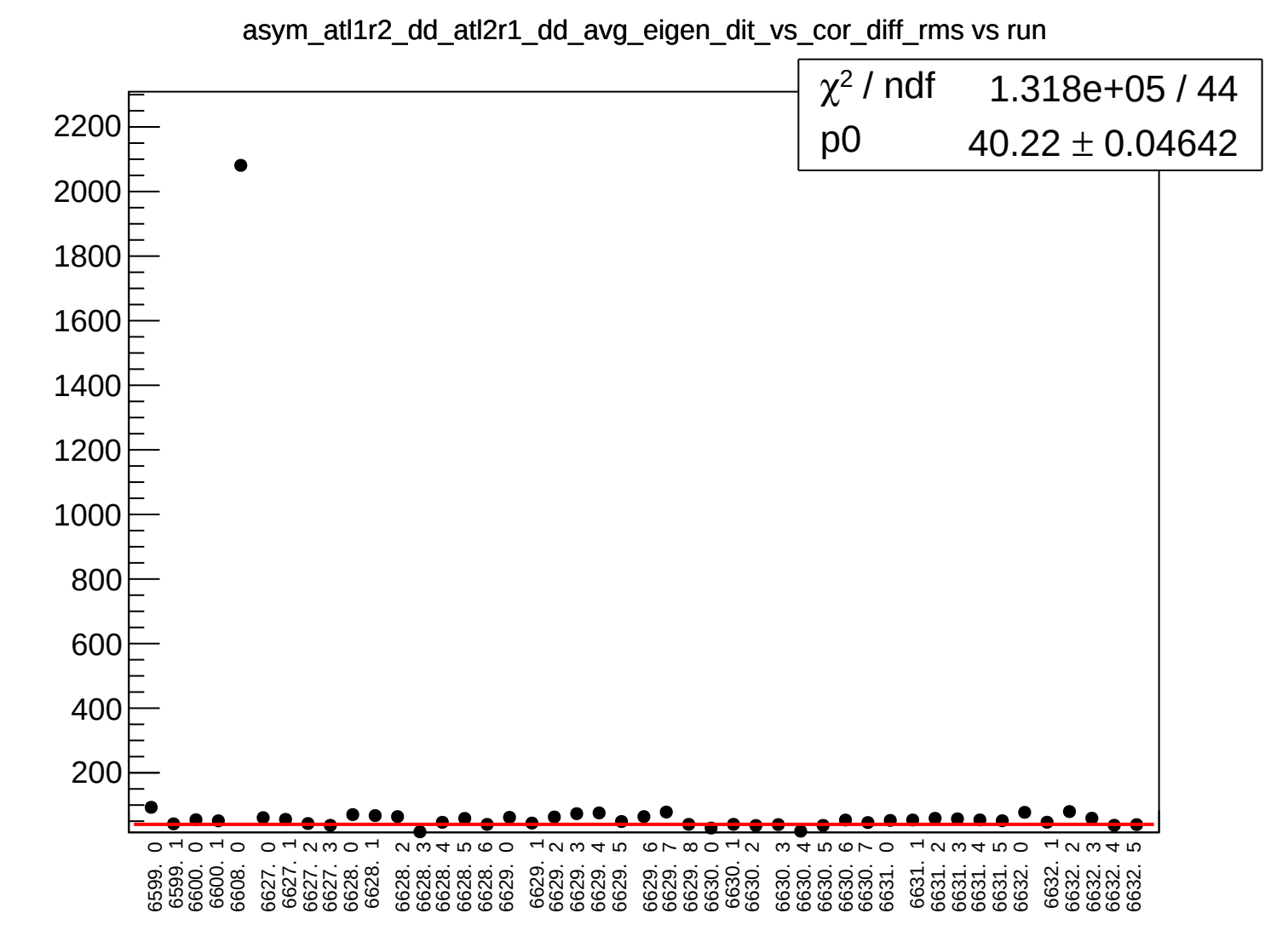
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 59.92 / 44
p0 0.05206 ± 0.06565
pull
Entries 45
Mean 33.18
Std Dev 14.76


pull1D
Entries 45
Mean 0.1013
Std Dev 1.149


asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.318e+05 / 44
p0 40.22 ± 0.04642
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
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6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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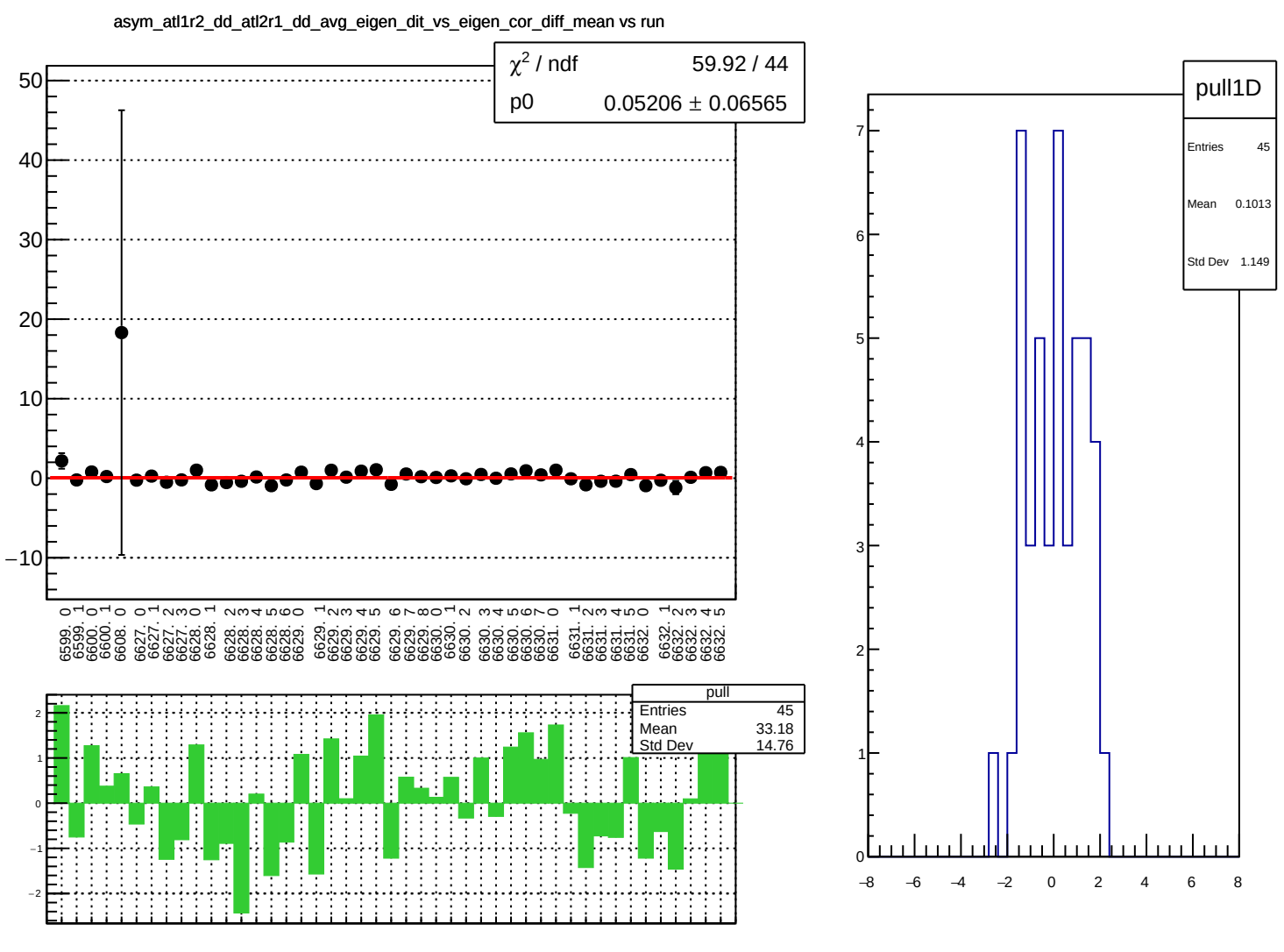
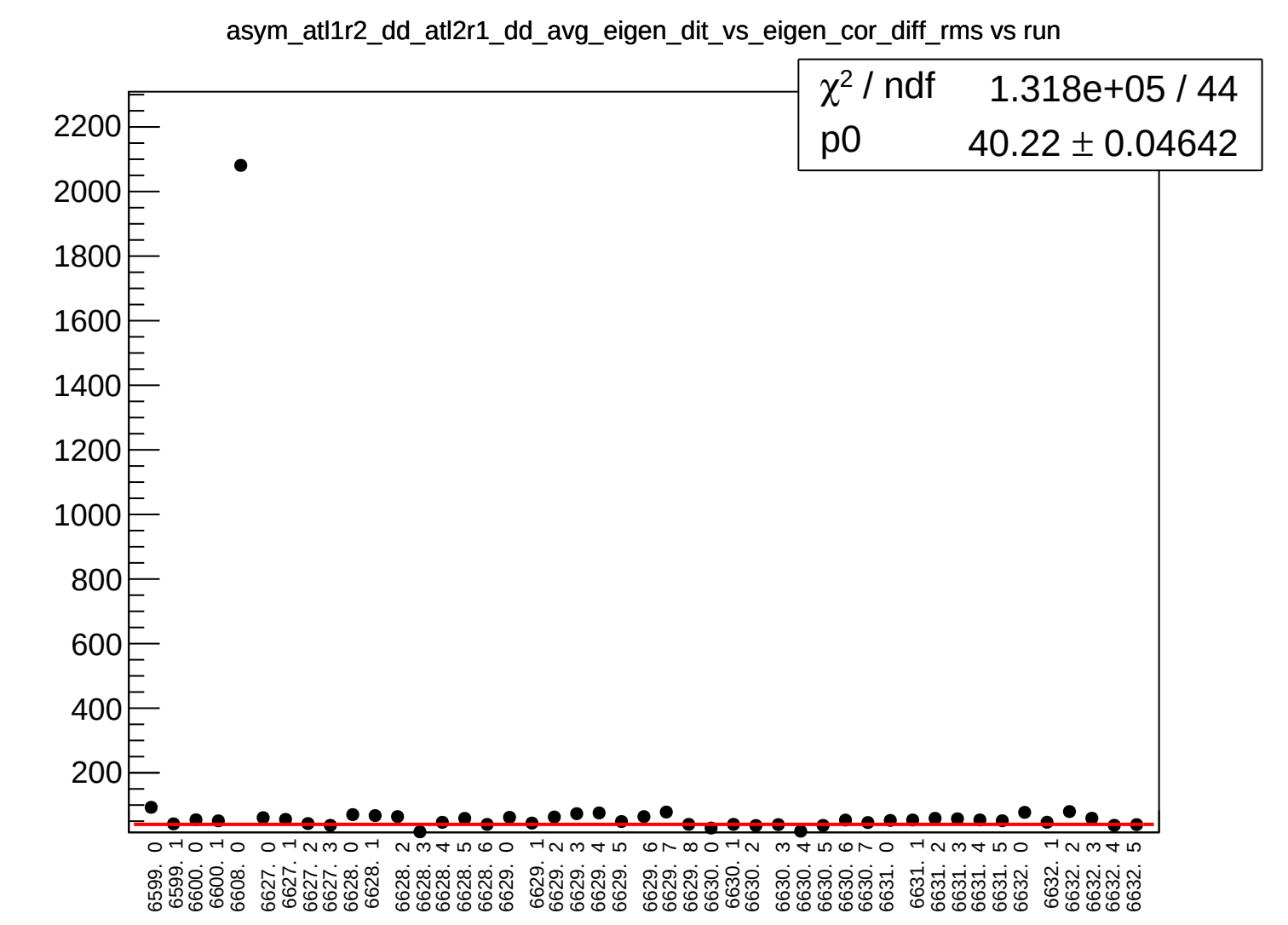
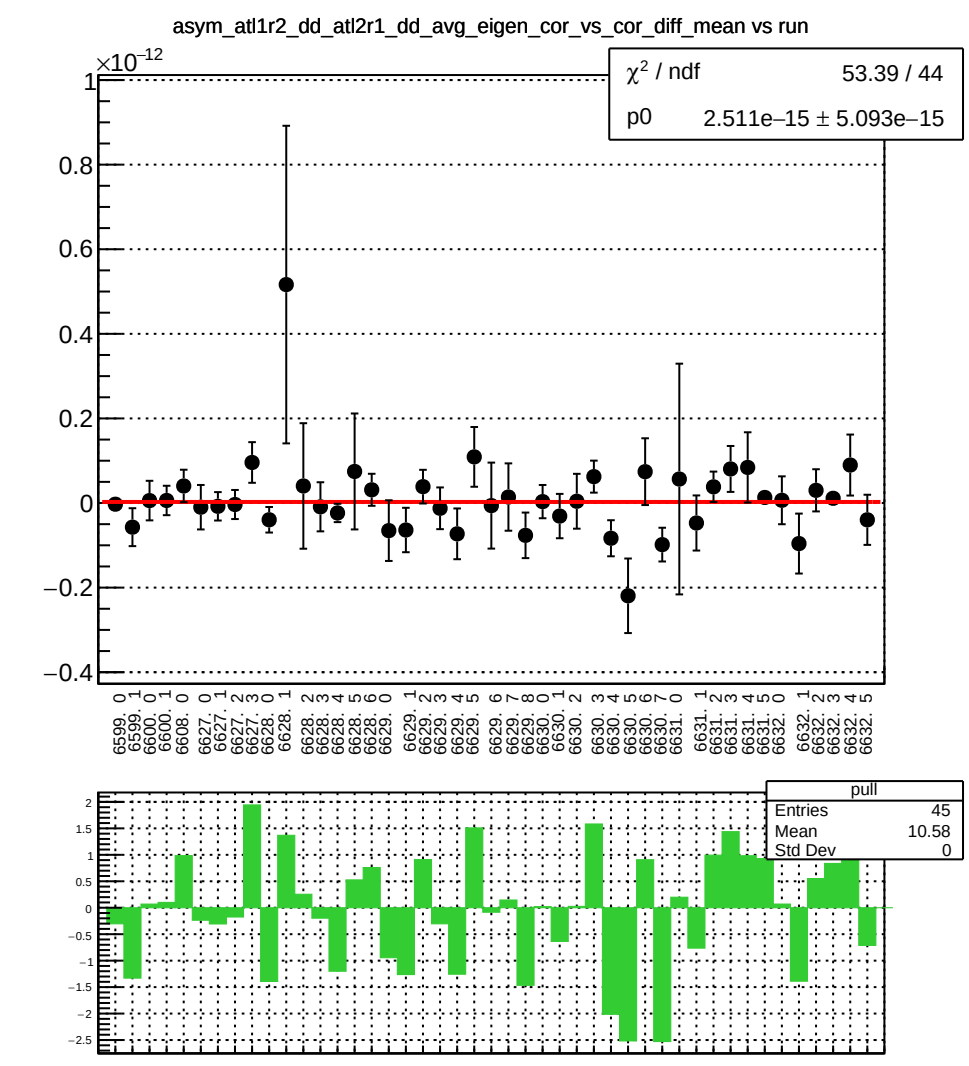
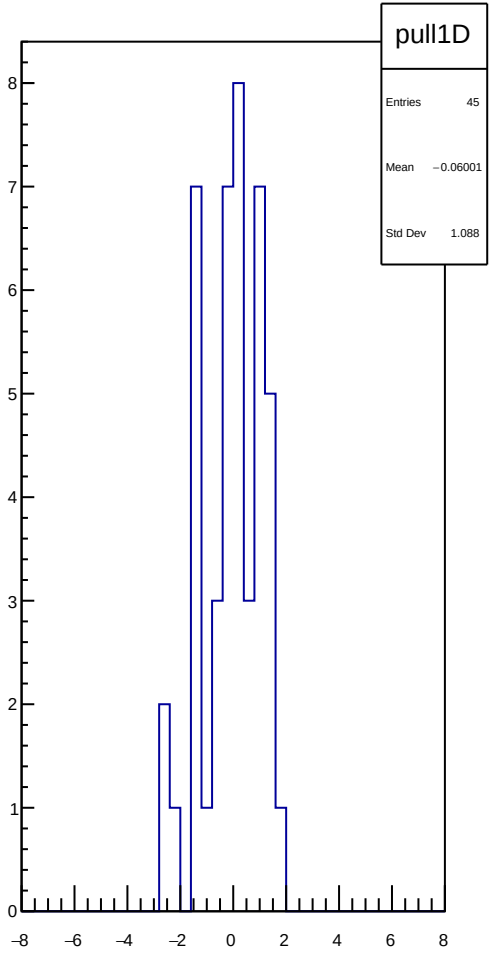
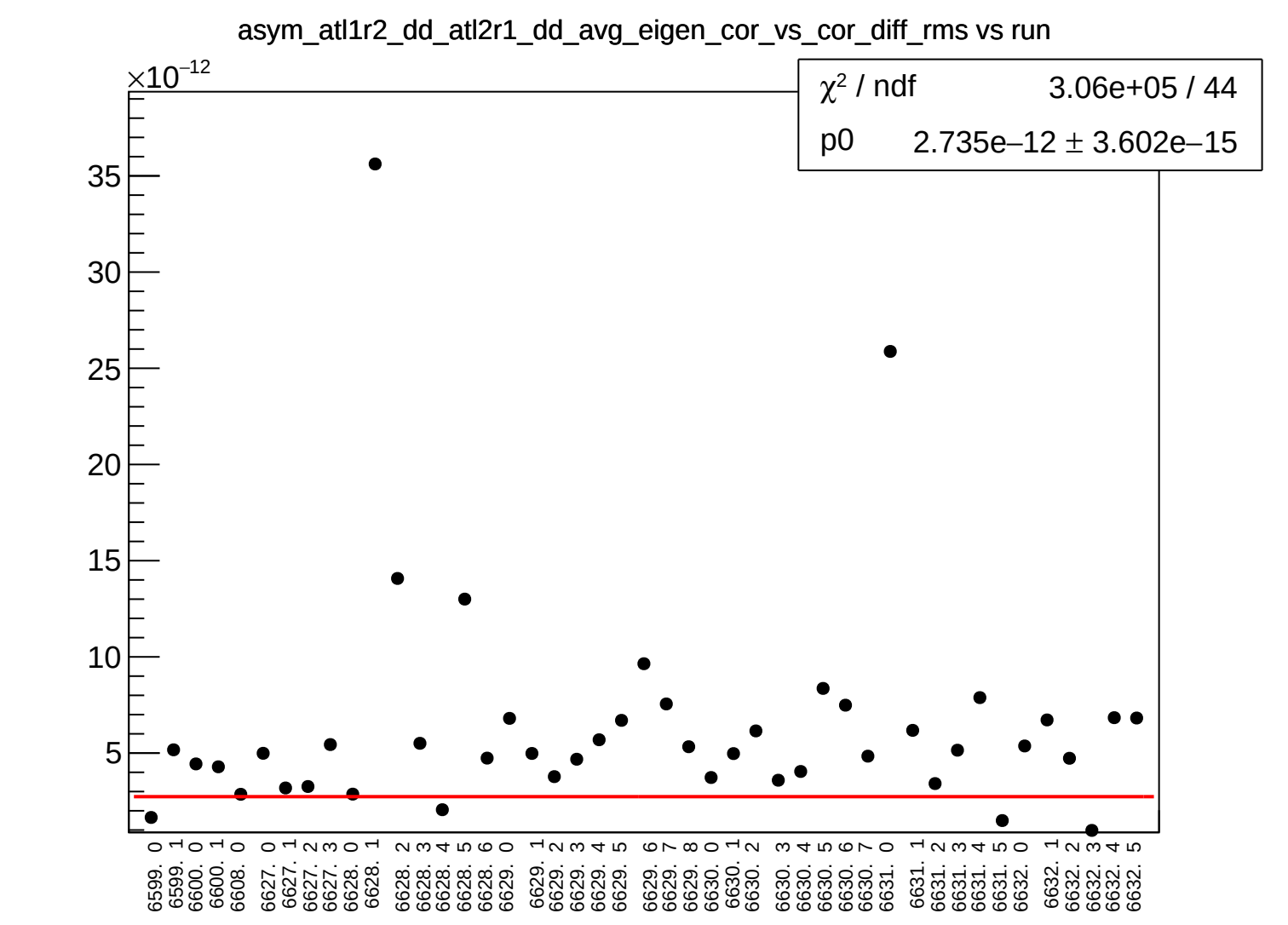
6632. 2
6632. 3
6632. 4
6632. 5

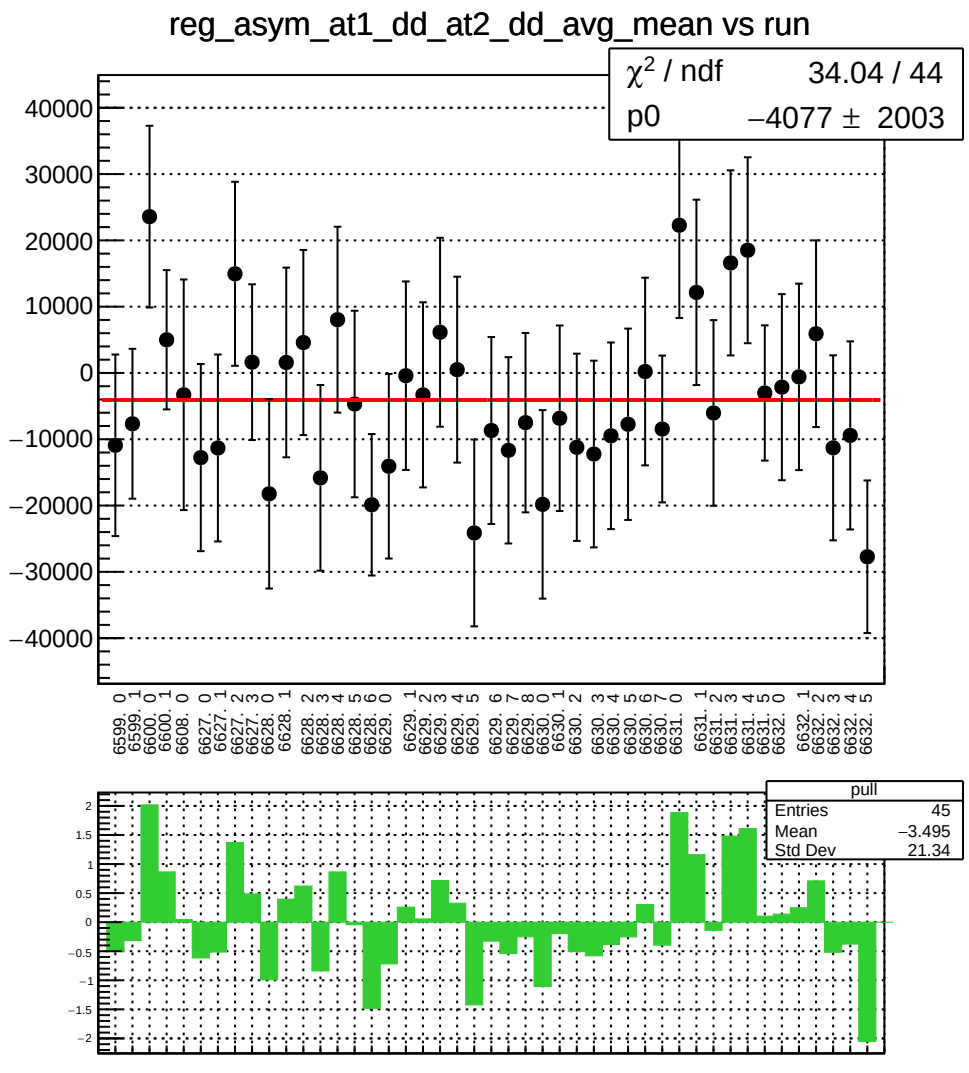

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 59.92 / 44
p0 0.05206 ± 0.06565
pull
Entries 45
Mean 33.18
Std Dev 14.76
pull1D
Entries 45
Mean 0.1013
Std Dev 1.149

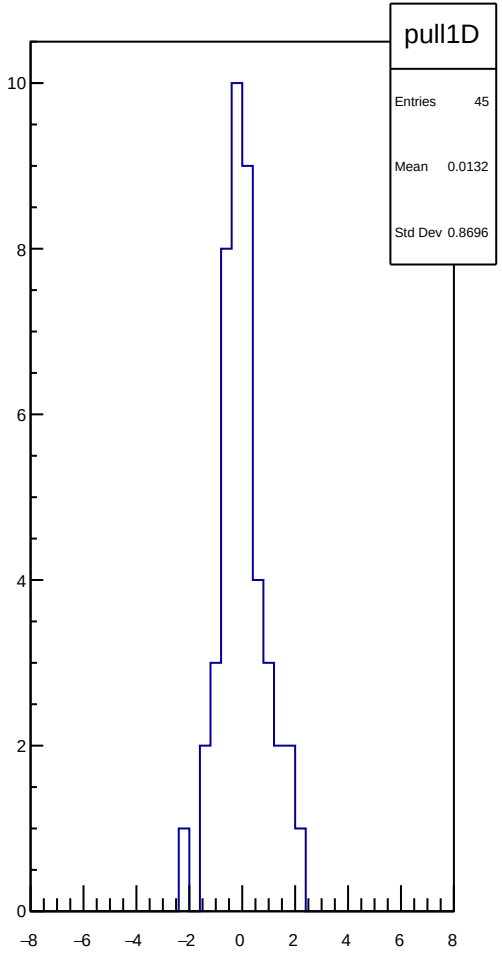

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.318e+05 / 44
p0 40.22 ± 0.04642
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

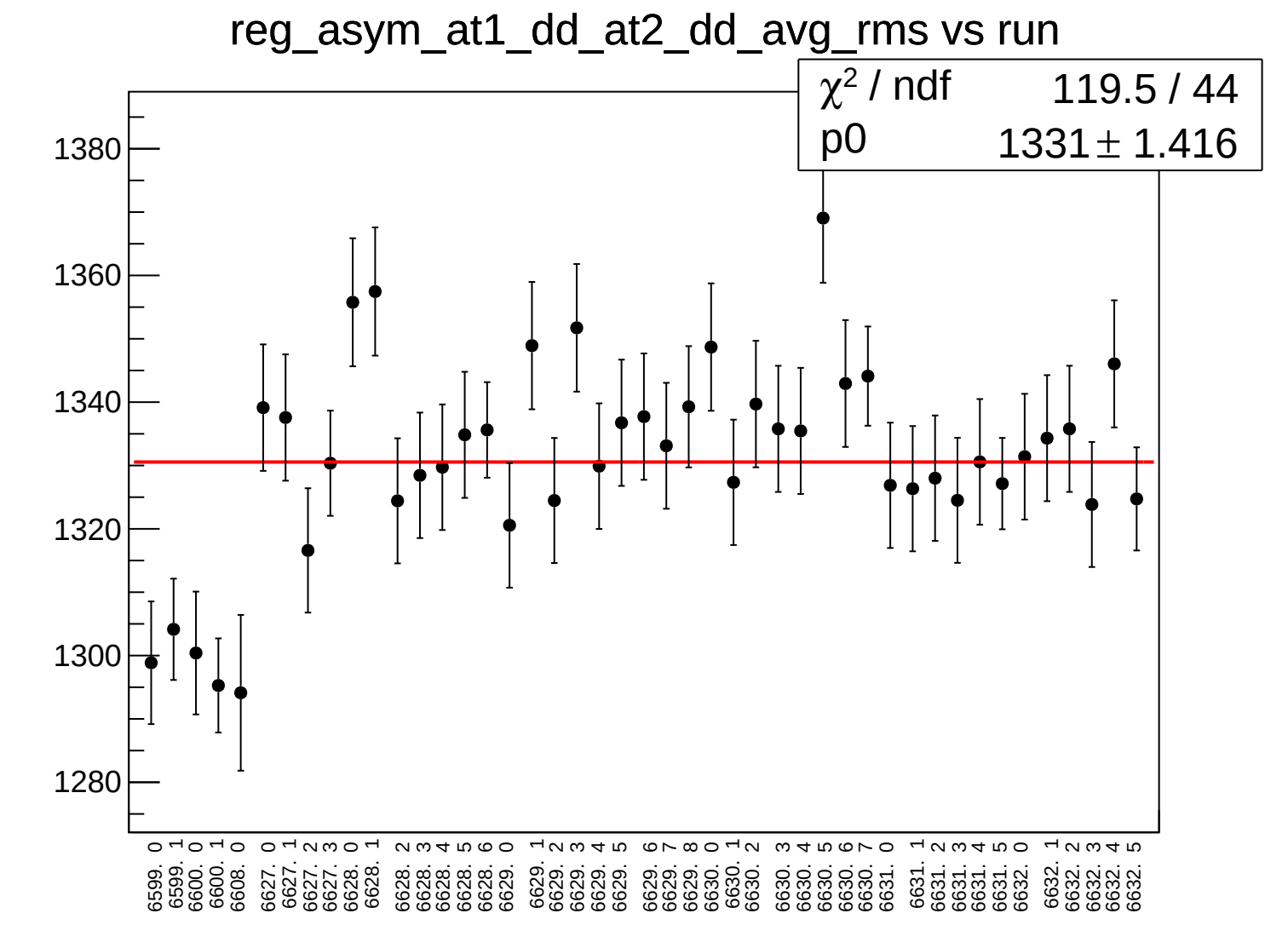

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 53.39 / 44
p0 2.511e−15 ± 5.093e−15
pull
Entries 45
Mean 10.58
Std Dev 0


pull1D
Entries 45
Mean −0.06001
Std Dev 1.088

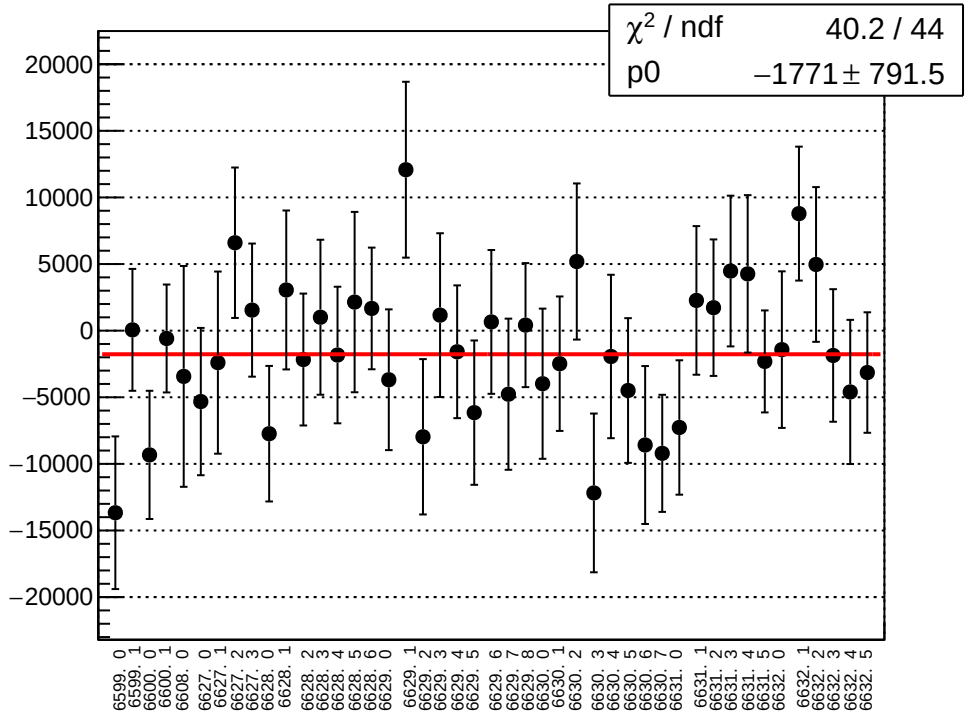

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.06e+05 / 44
p0 2.735e−12 ± 3.602e−15
35
30
25
20
15
10
5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

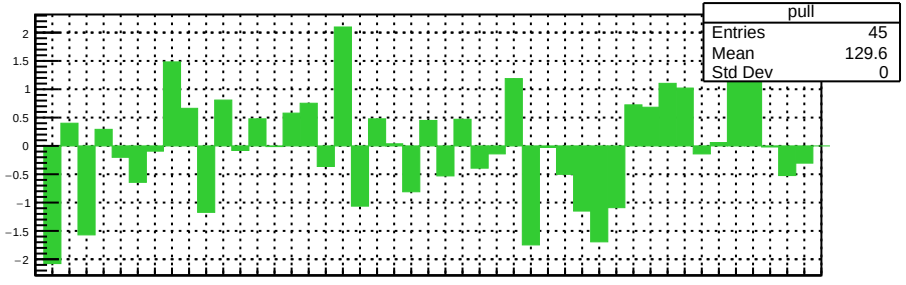

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 34.04 / 44
p0 −4077 ± 2003
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −3.495
Std Dev 21.34
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

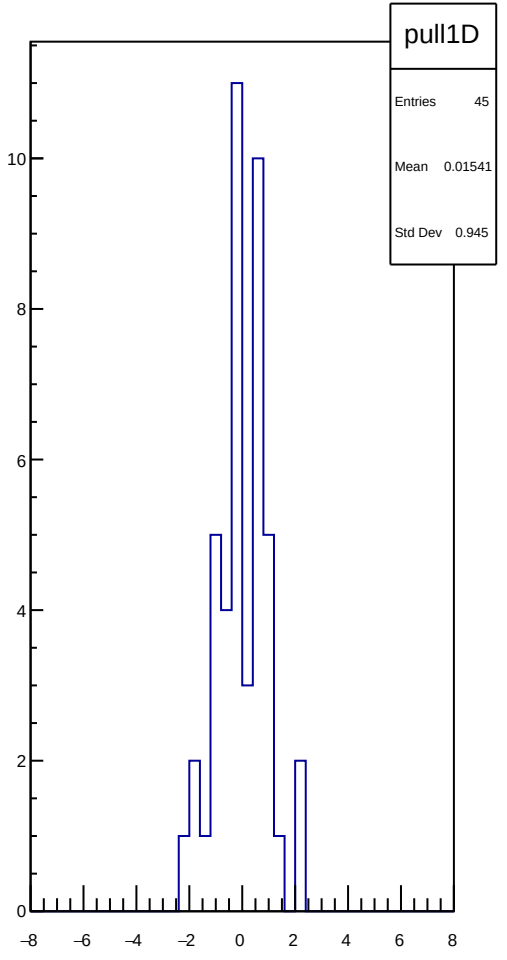

pull1D
Entries 45
Mean 0.0132
Std Dev 0.8696
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

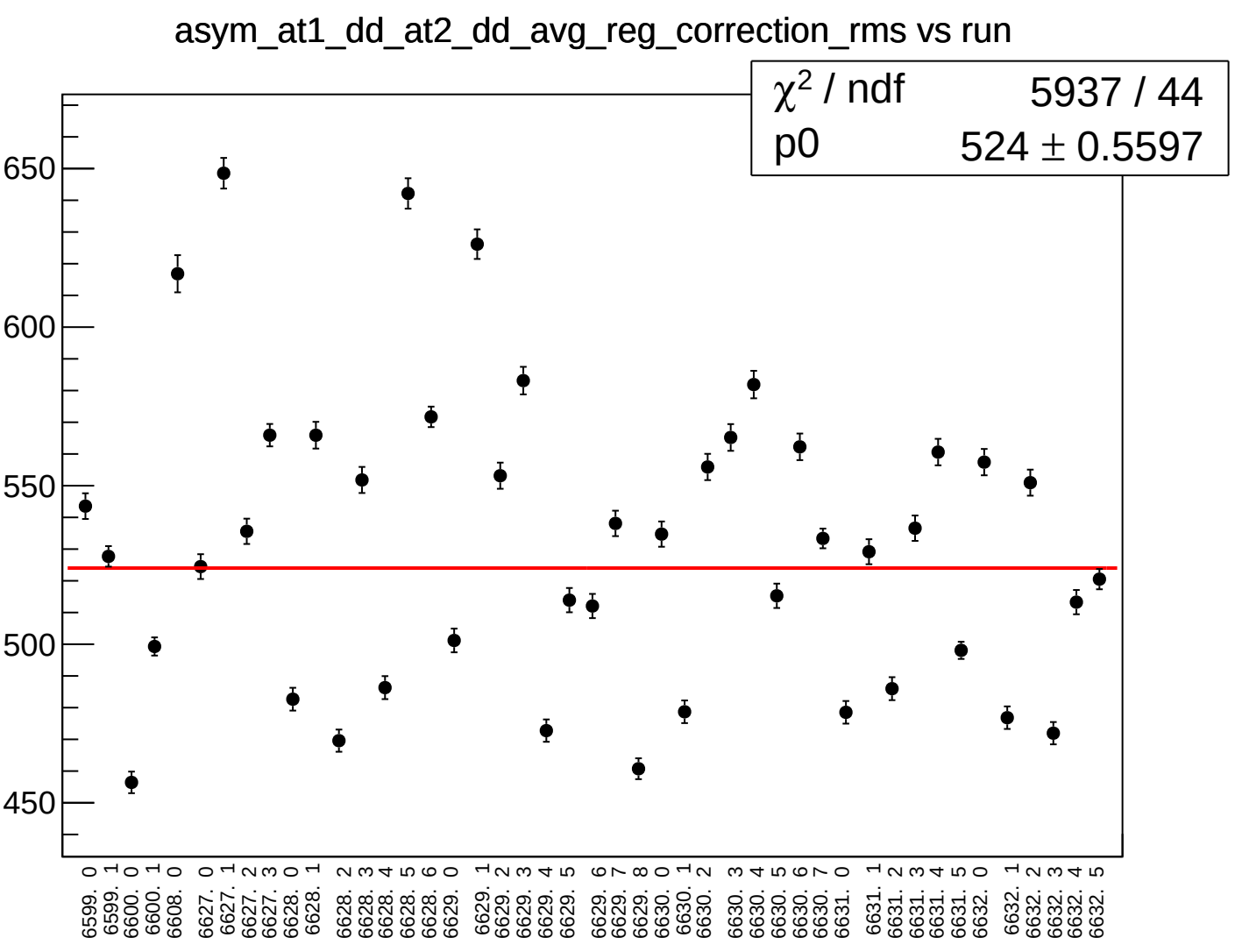

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 119.5 / 44
p0 1331 ± 1.416
1380
1360
1340
1320
1300
1280
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

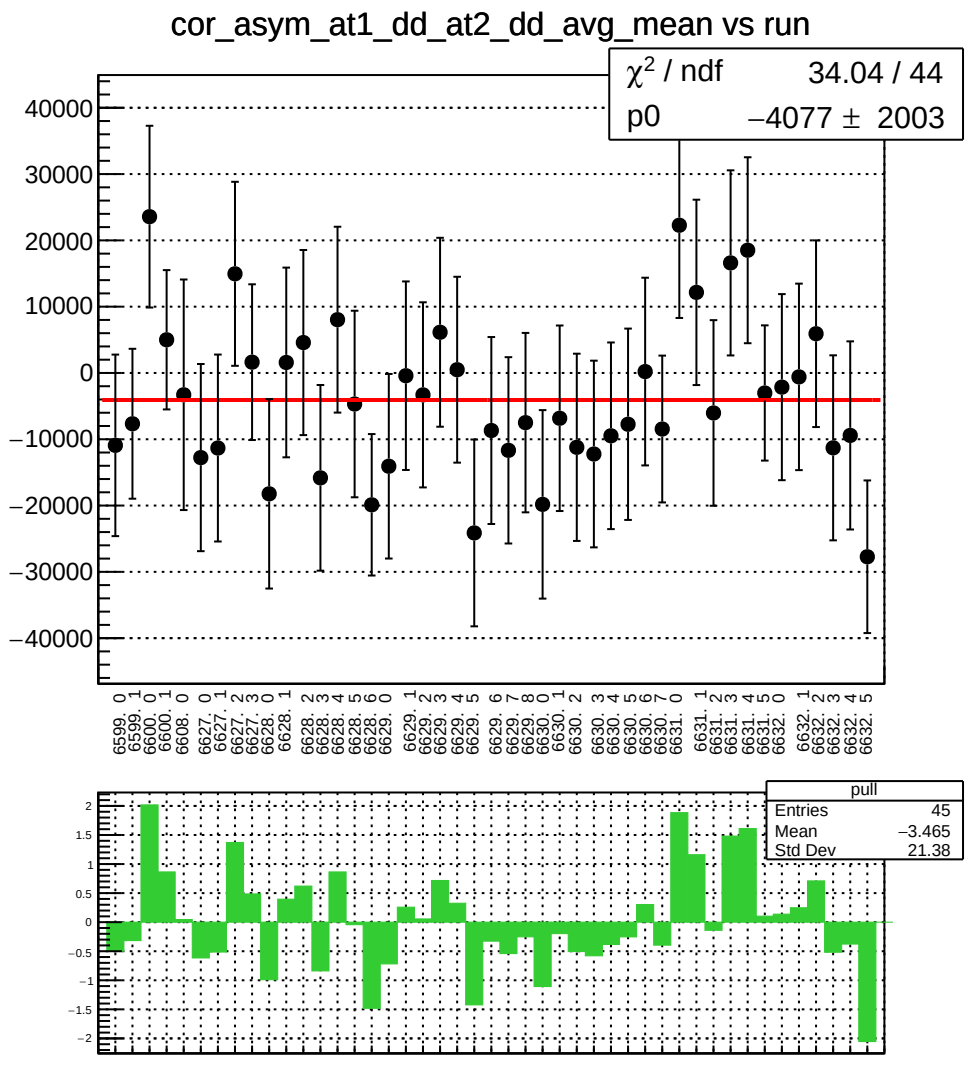
asym_at1_dd_at2_dd_avg_reg_correction_mean vs run

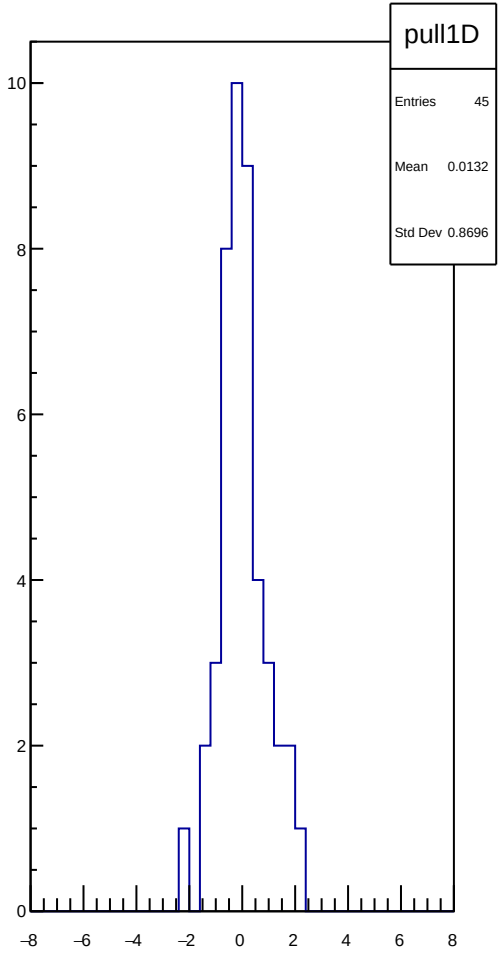


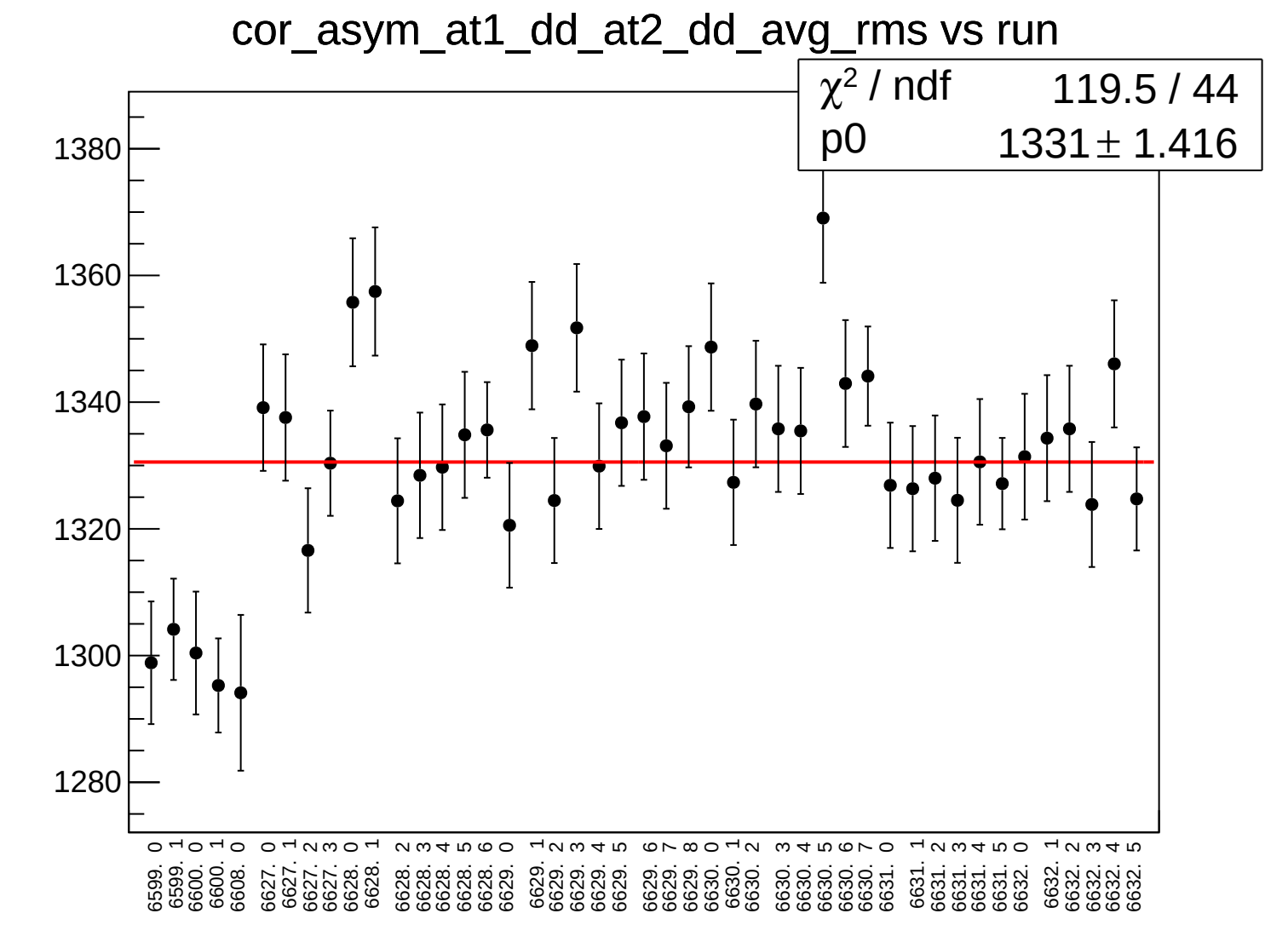




asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 5937 / 44
p0 524 ± 0.5597
650
600
550
500
450
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 34.04 / 44
p0 −4077 ± 2003
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −3.465
Std Dev 21.38
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.0132
Std Dev 0.8696
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 119.5 / 44
p0 1331 ± 1.416
1380
1360
1340
1320
1300
1280
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
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6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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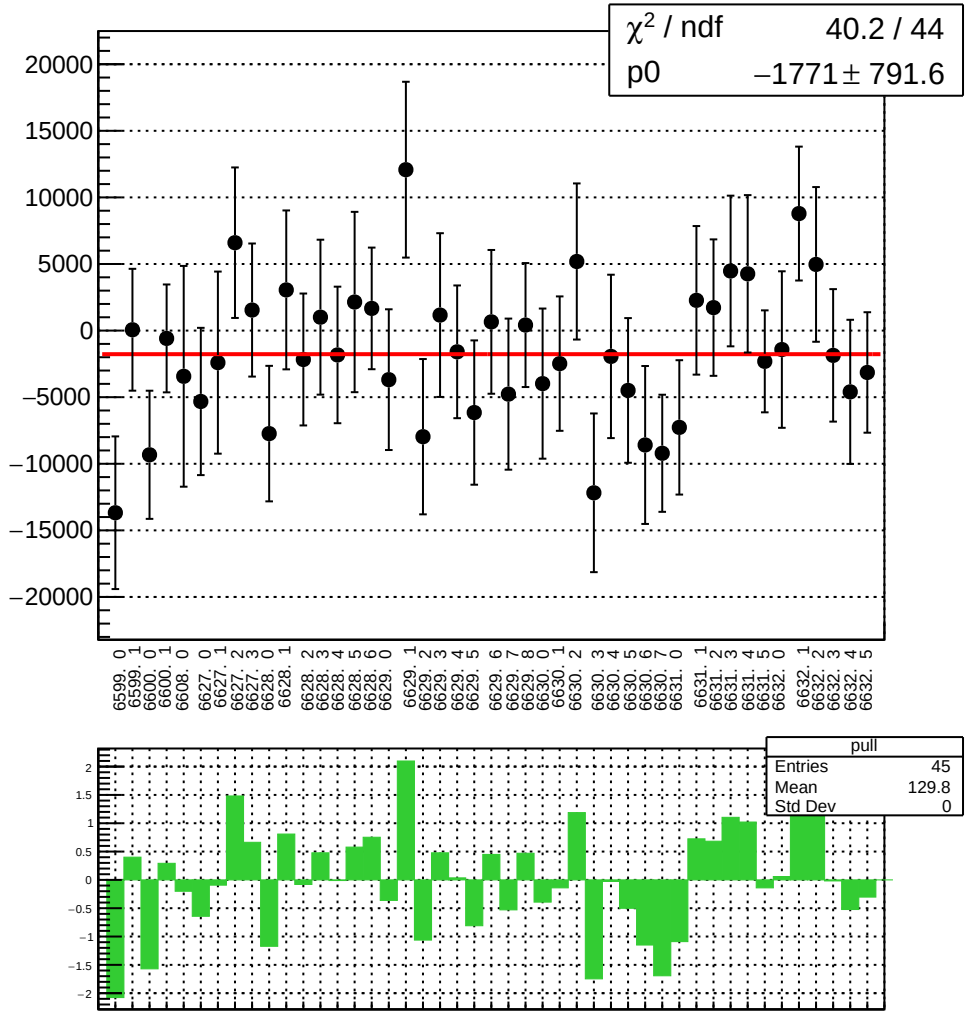
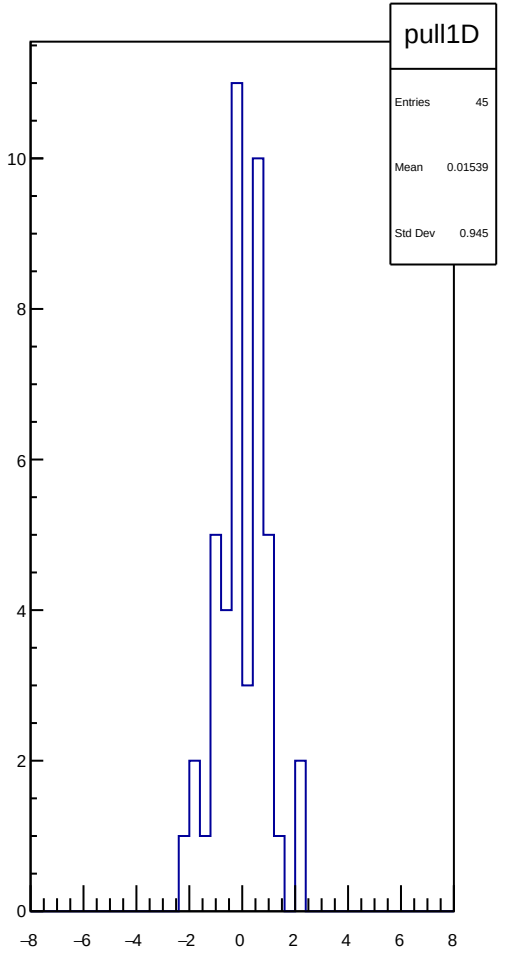
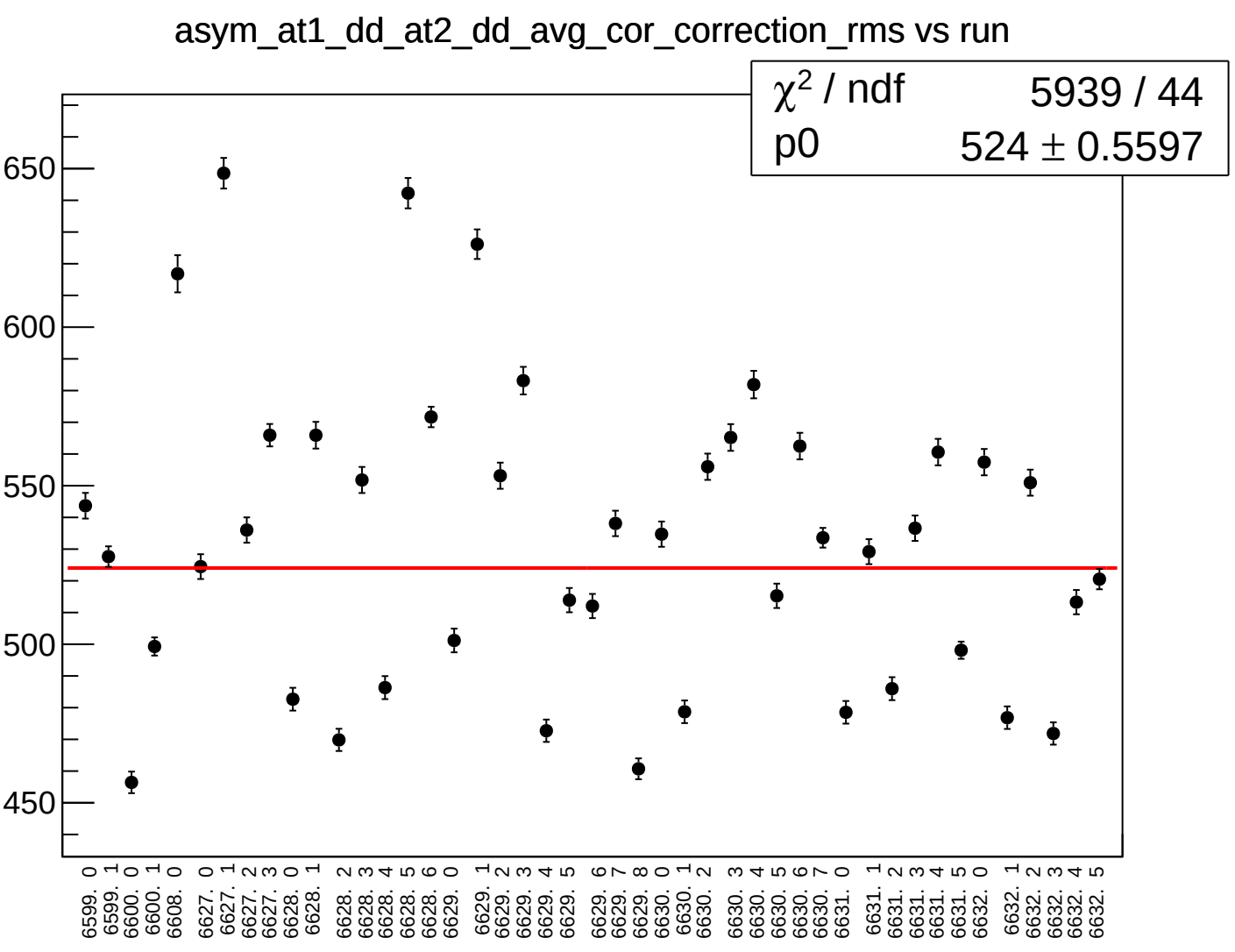
6632. 2
6632. 3
6632. 4
6632. 5

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run




asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 5939 / 44
p0 524 ± 0.5597
650
600
550
500
450
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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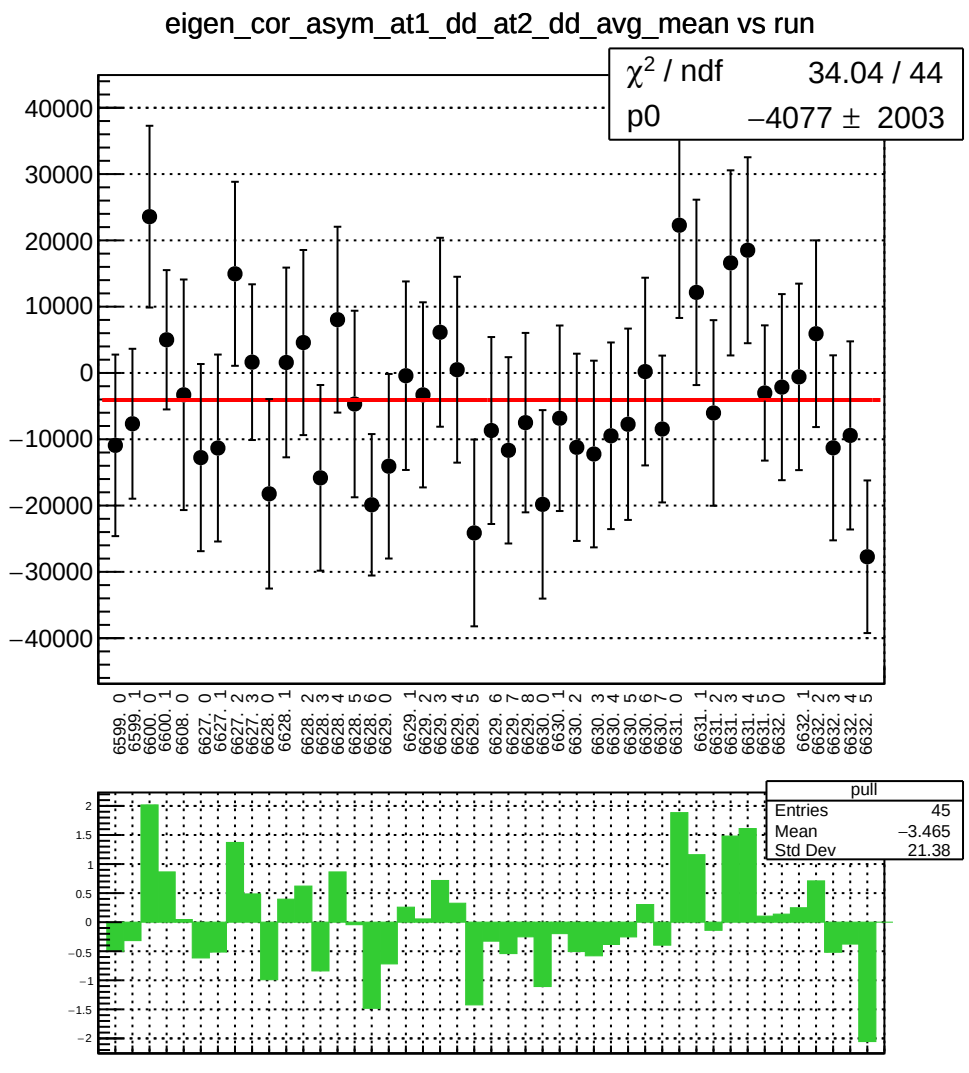
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 34.04 / 44
p0 −4077 ± 2003
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
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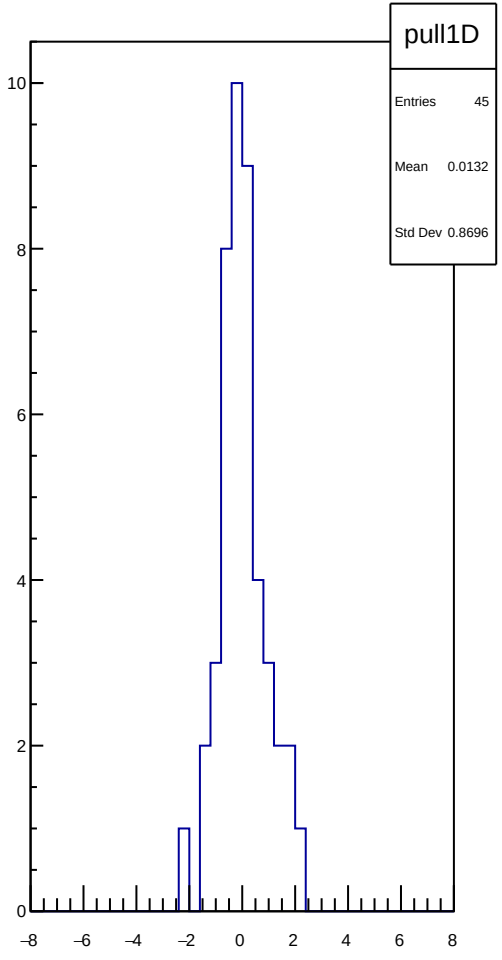
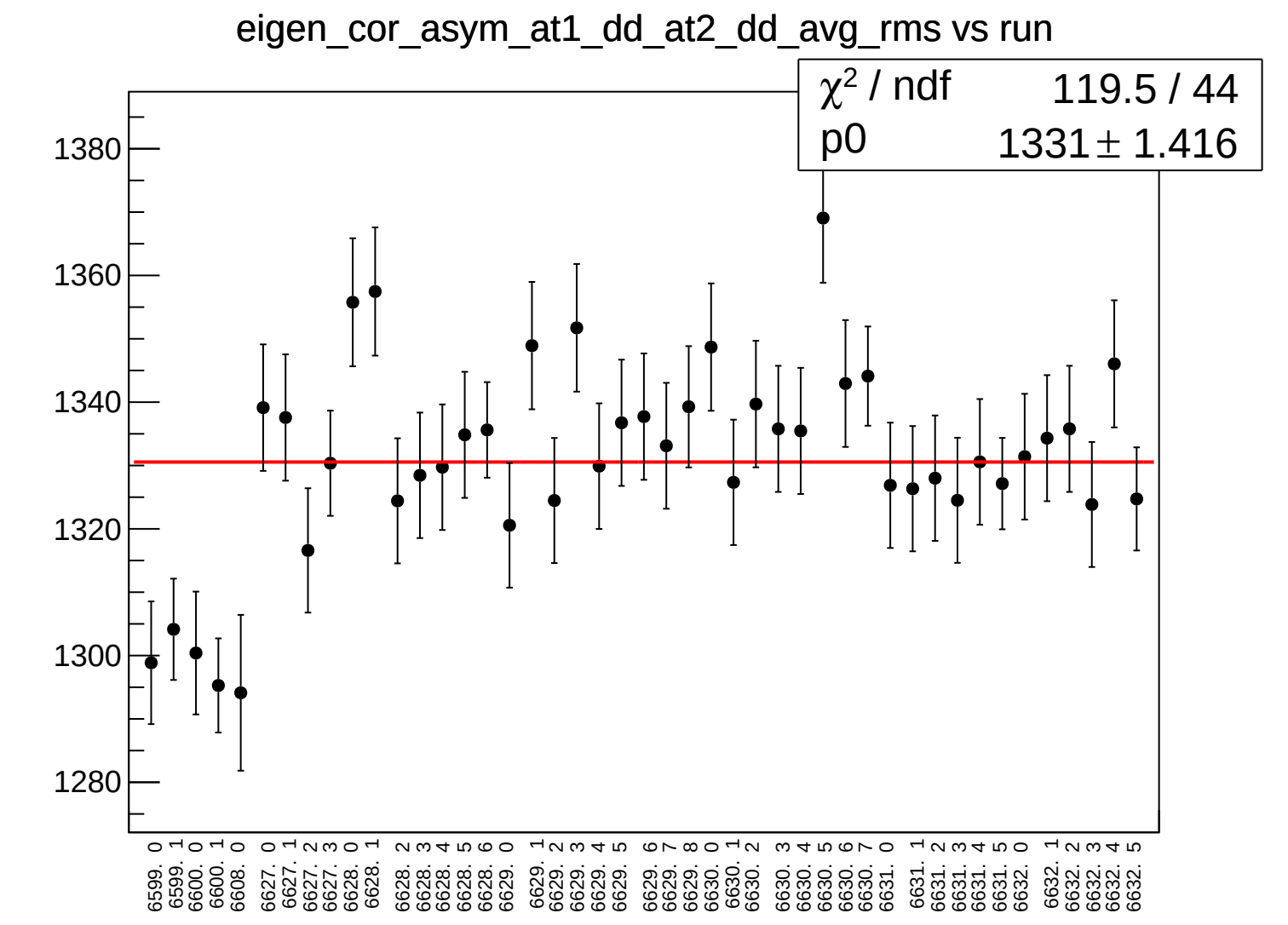
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −3.465
Std Dev 21.38
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.0132
Std Dev 0.8696
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 119.5 / 44
p0 1331 ± 1.416
1380
1360
1340
1320
1300
1280
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
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6628. 5
6628. 6
6629. 0
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6629. 2
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6629. 4
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6629. 6
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6629. 8
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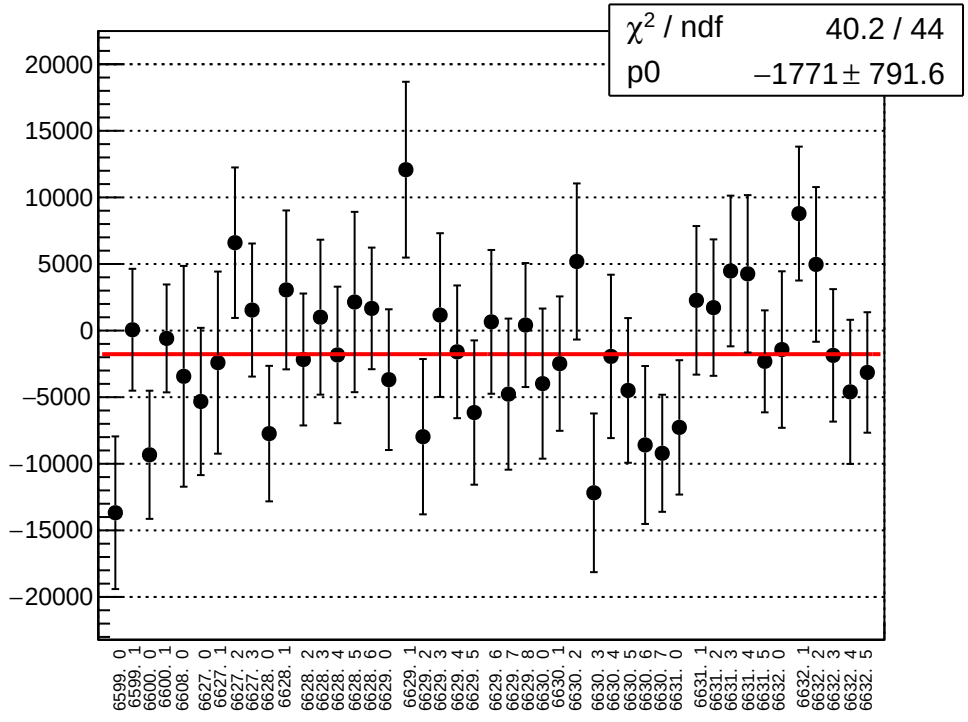
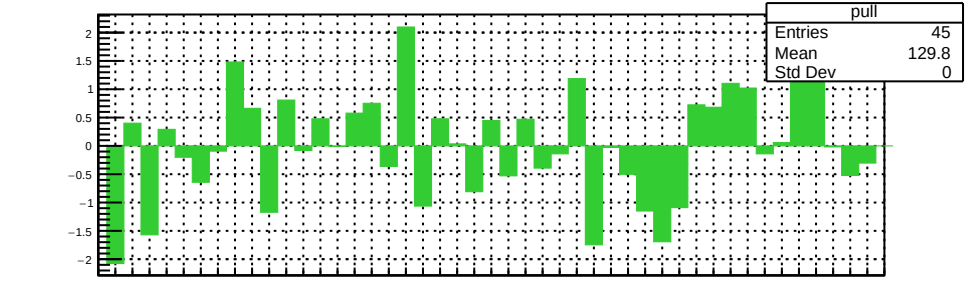
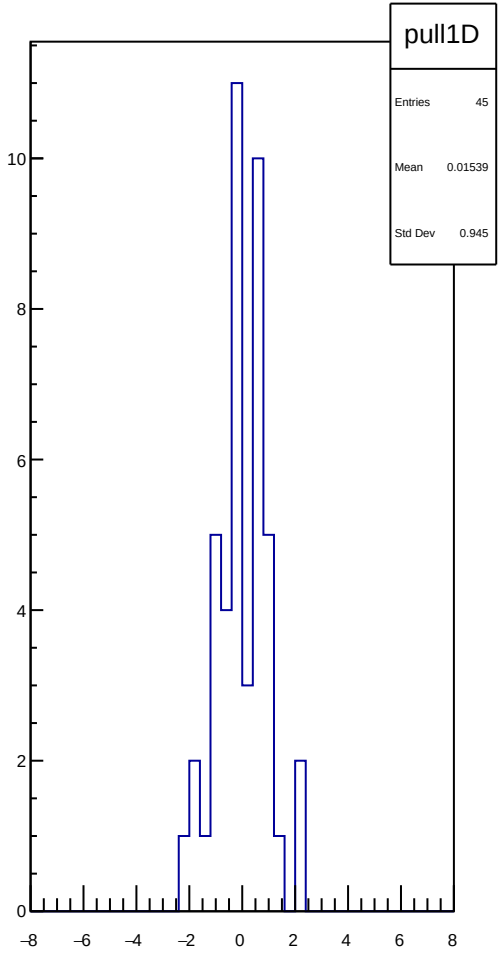
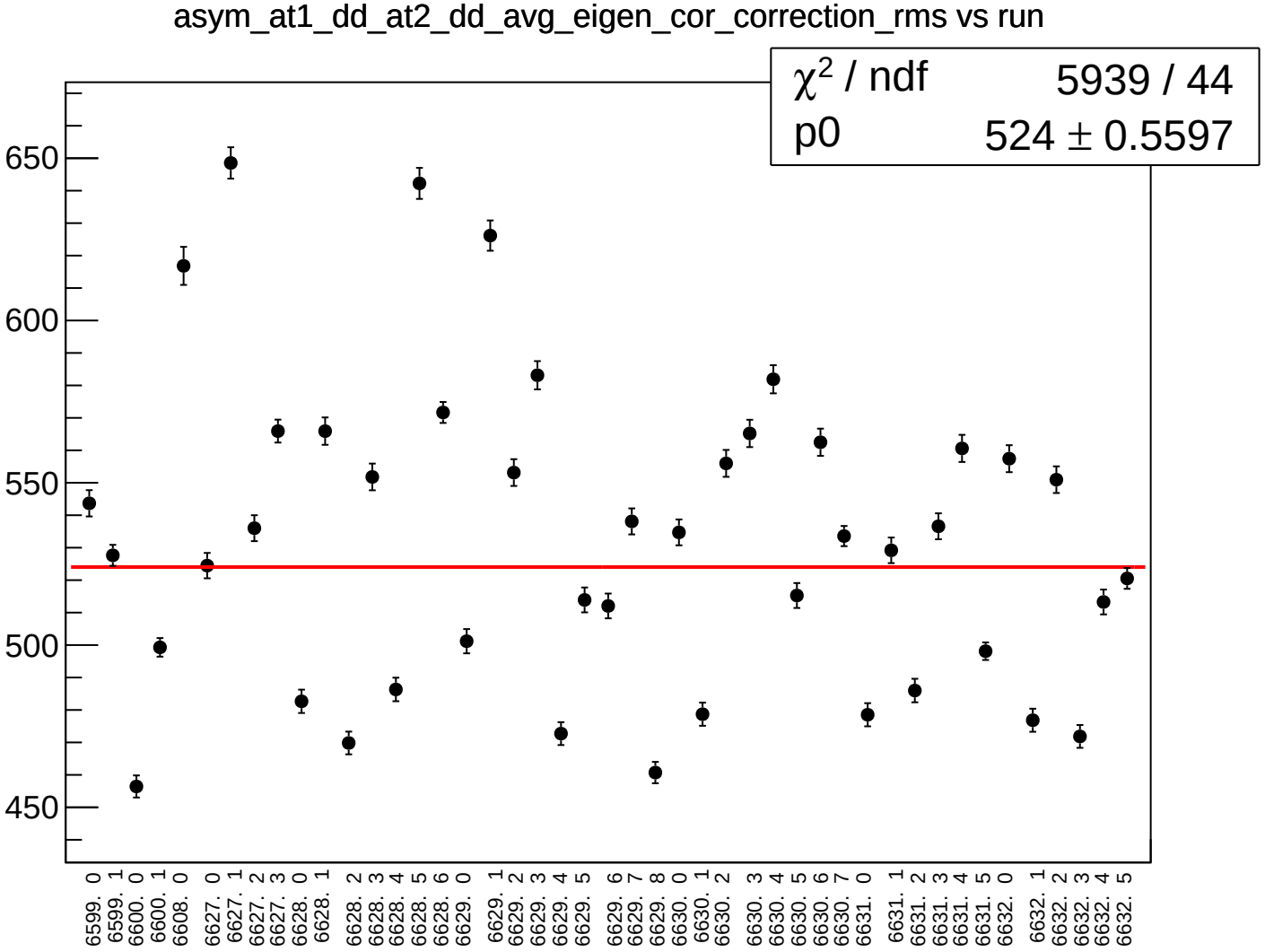
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

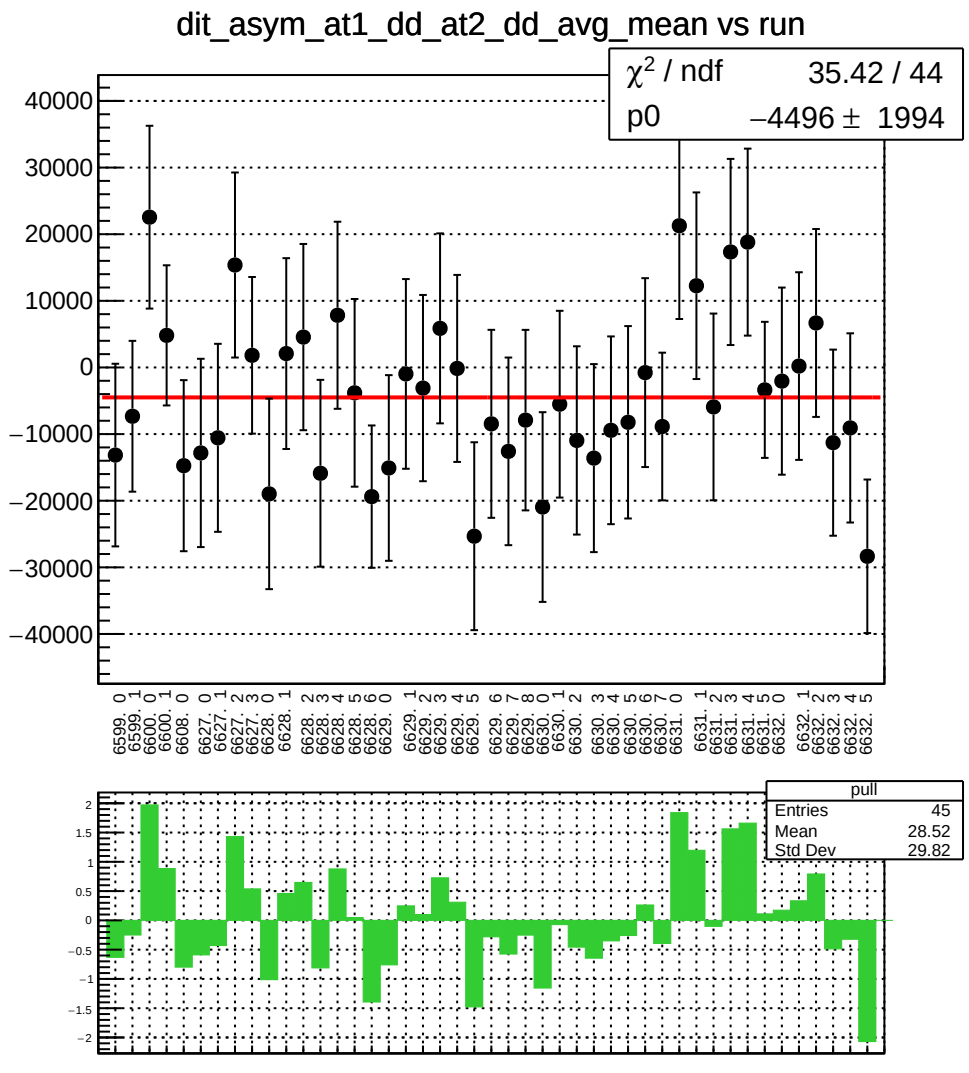
asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run

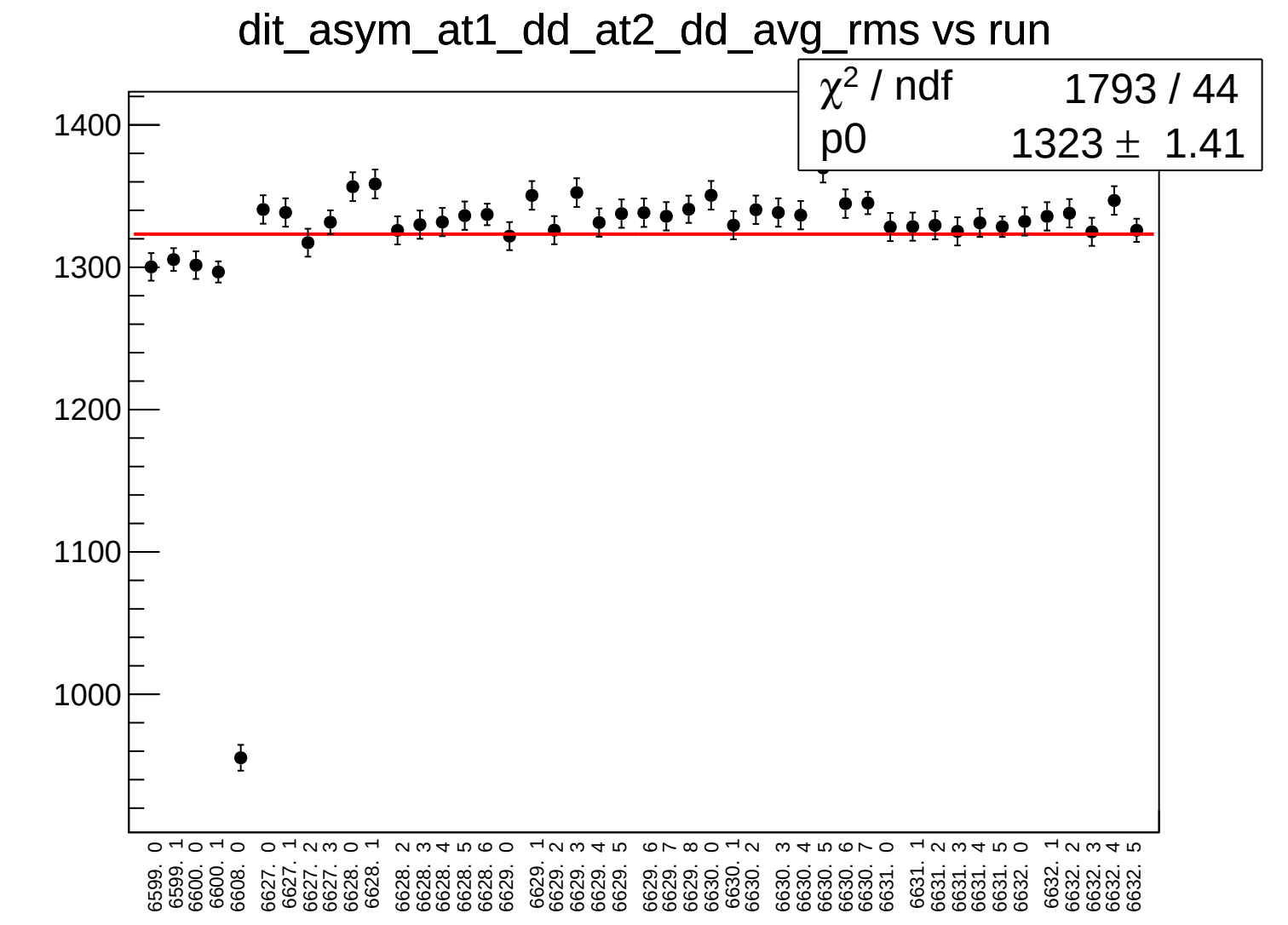


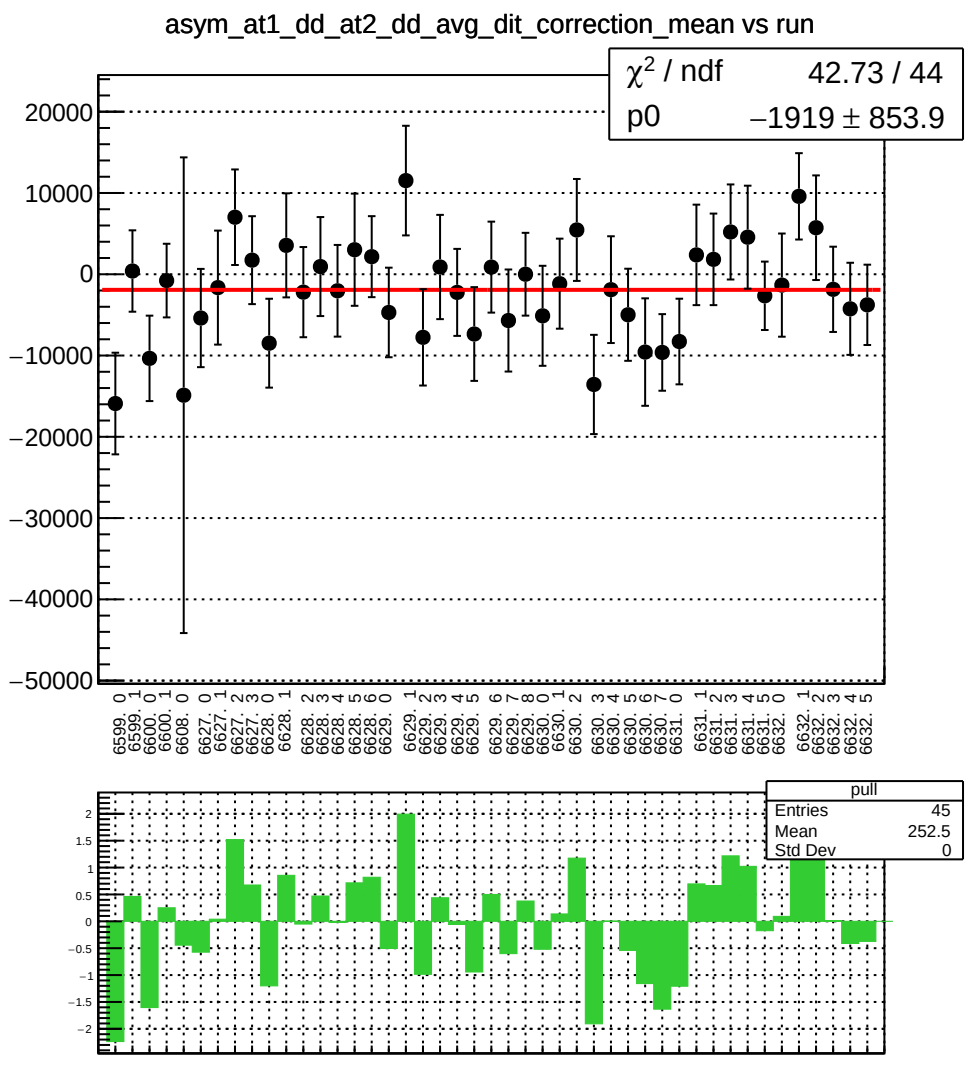



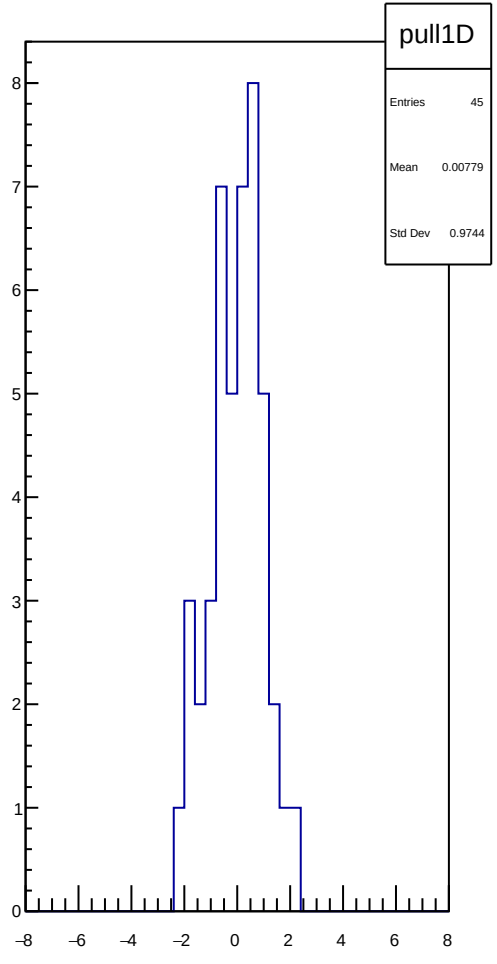



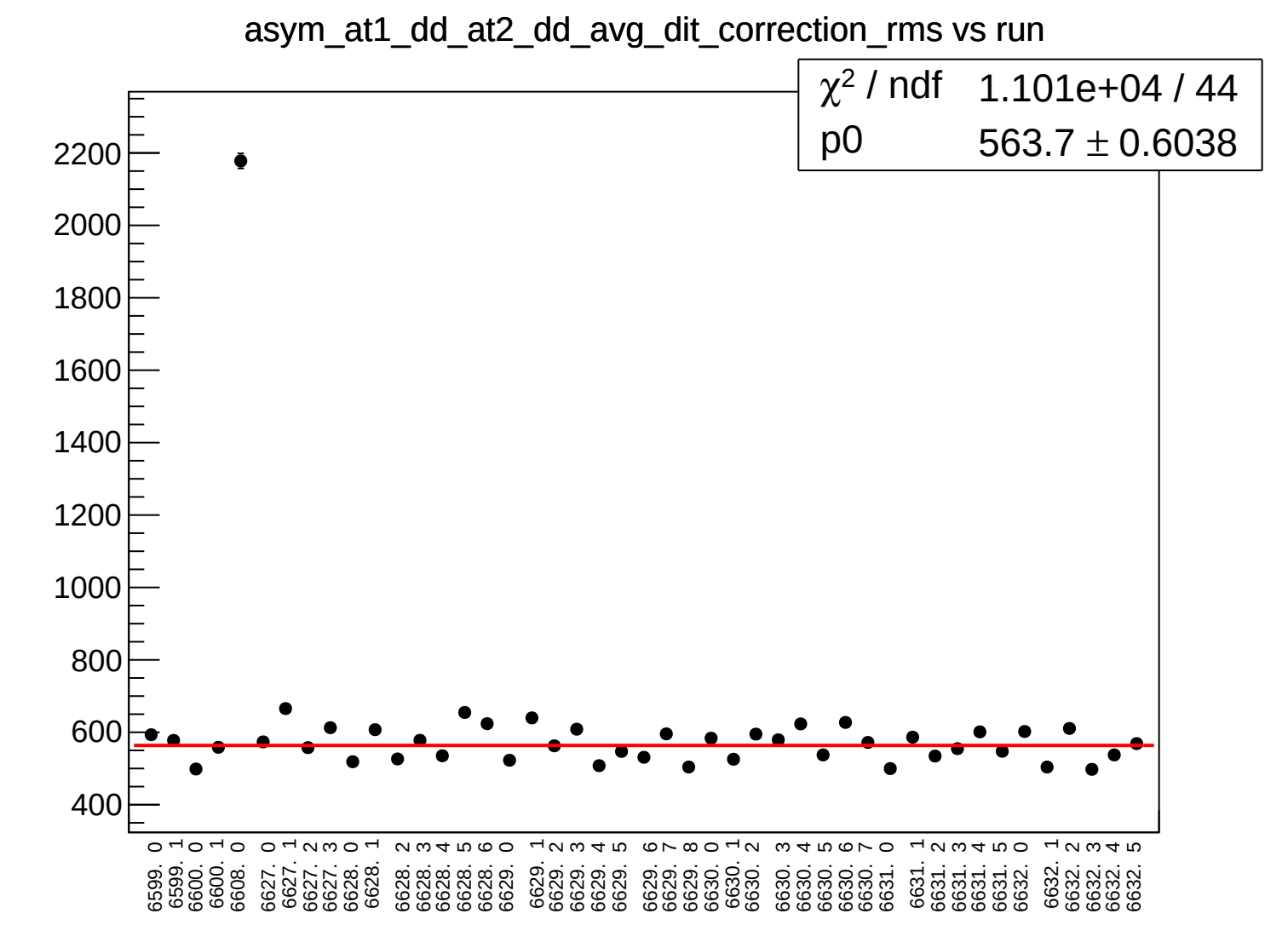

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 5939 / 44
p0 524 ± 0.5597
650
600
550
500
450
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

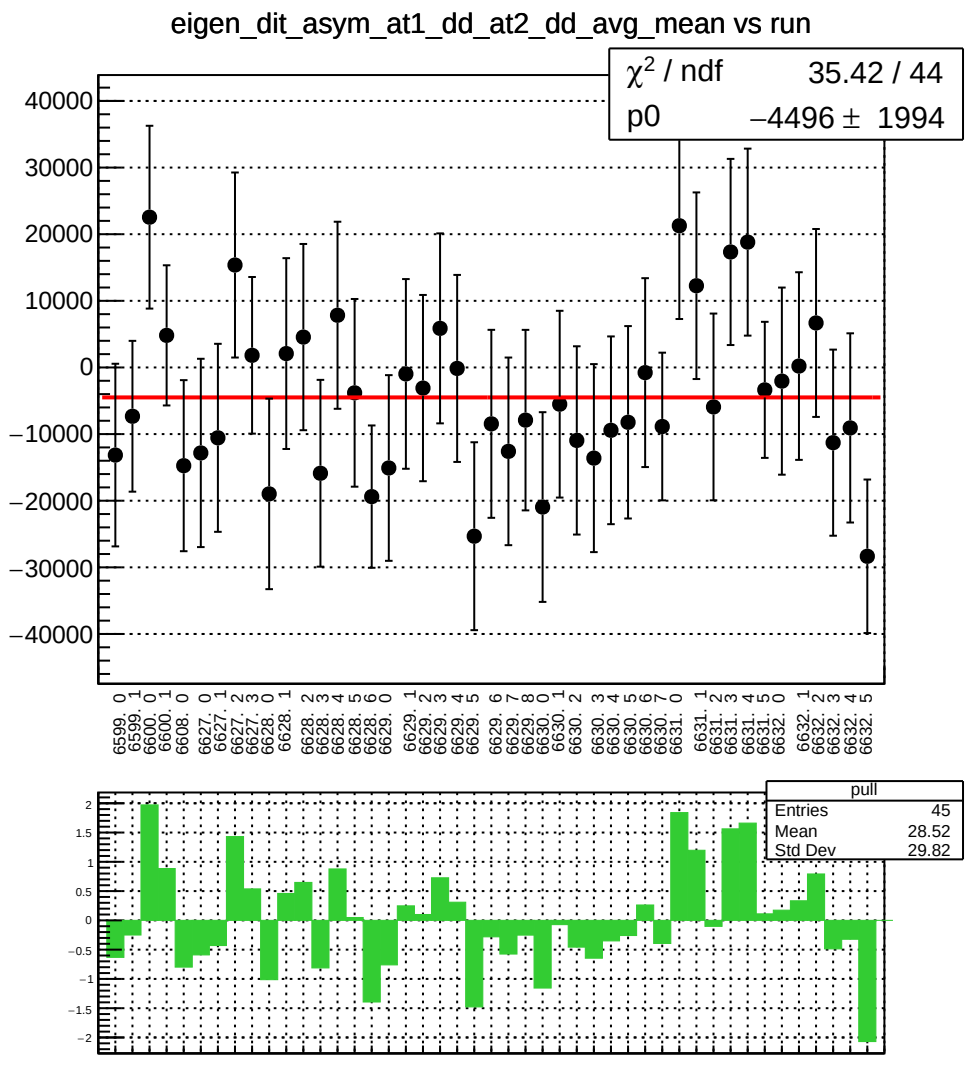

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 35.42 / 44
p0 −4496 ± 1994
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 28.52
Std Dev 29.82
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01341
Std Dev 0.8871
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

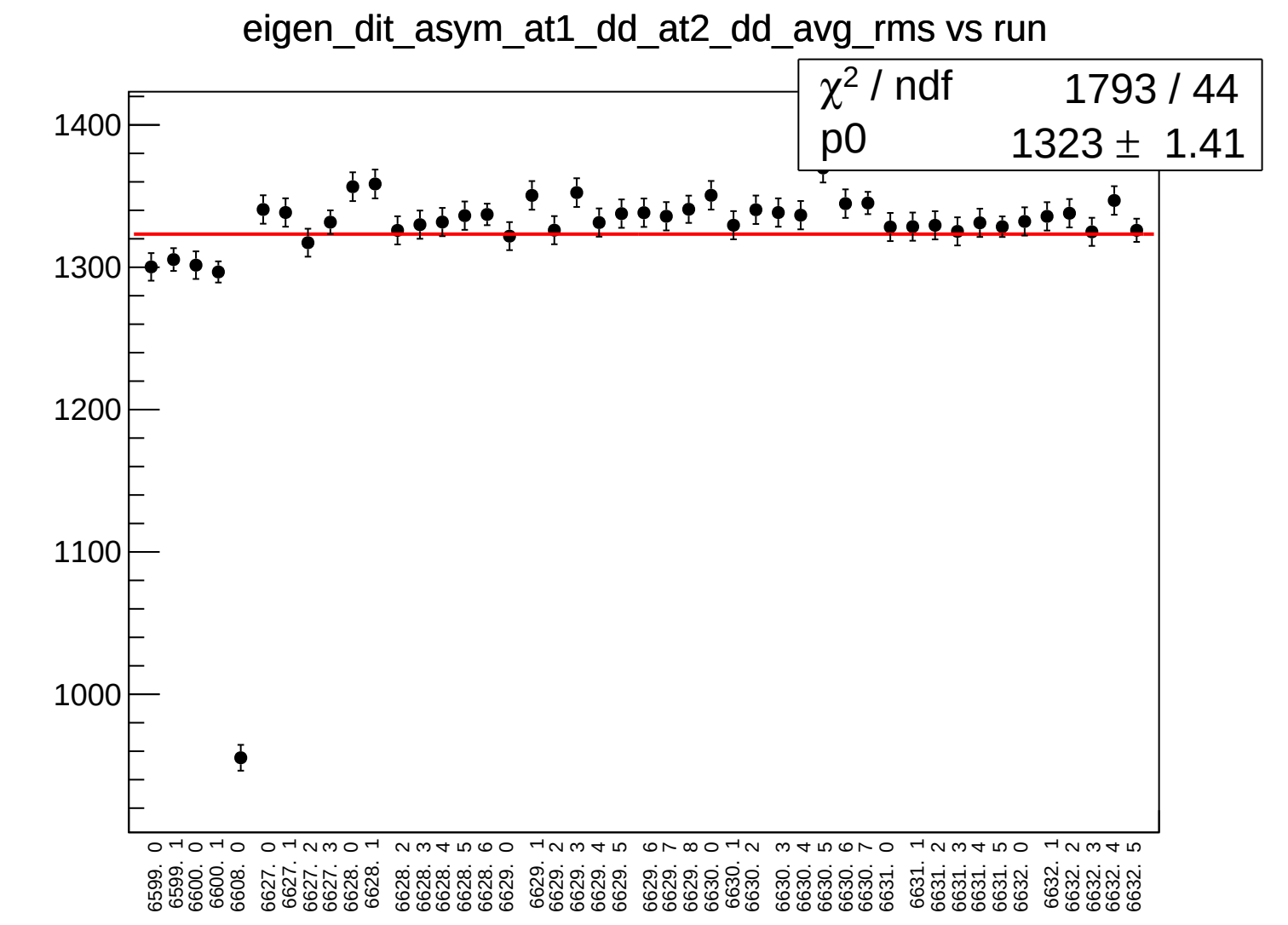

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 1793 / 44
p0 1323 ± 1.41
1400
1300
1200
1100
1000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

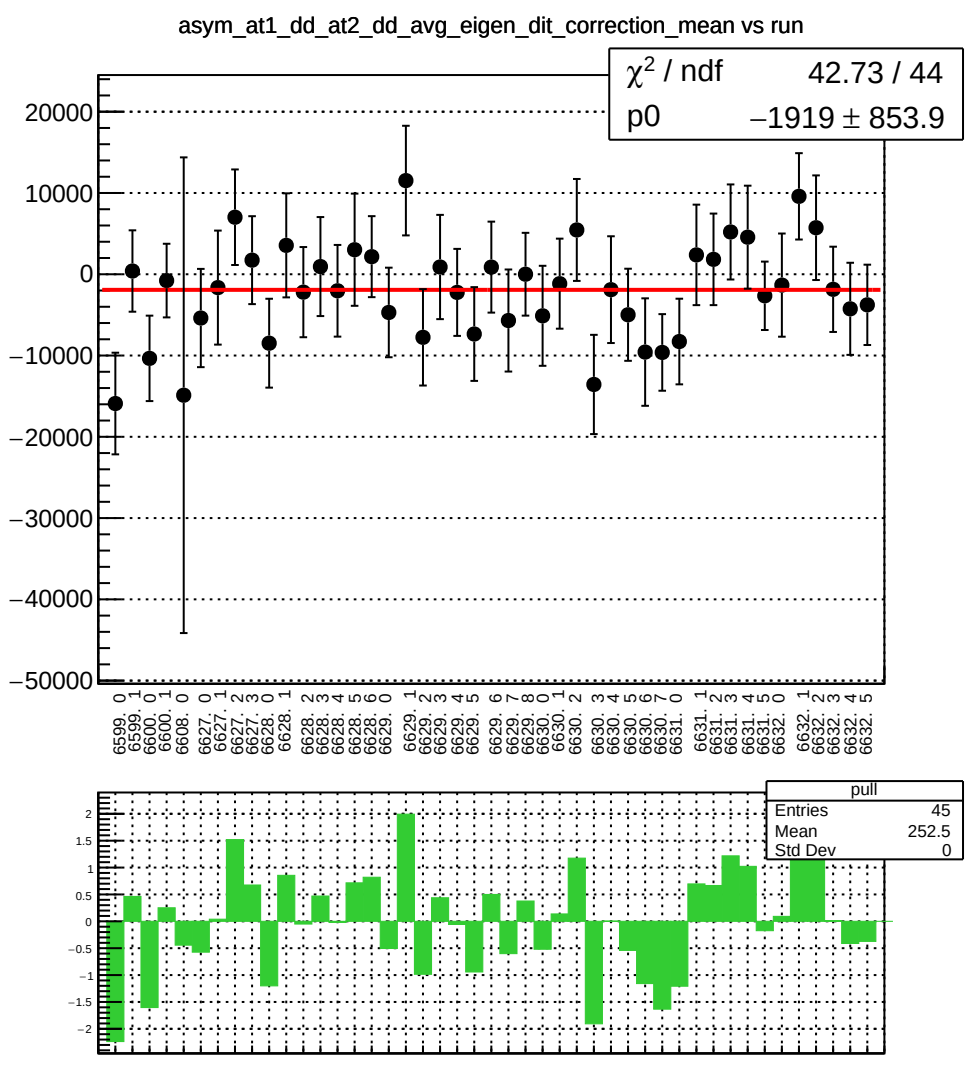

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 42.73 / 44
p0 −1919 ± 853.9
pull
Entries 45
Mean 252.5
Std Dev 0

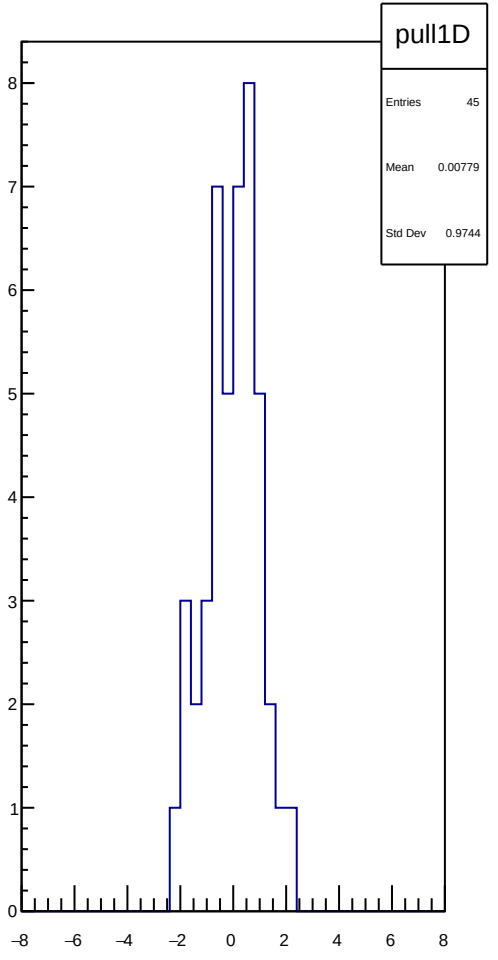

pull1D
Entries 45
Mean 0.00779
Std Dev 0.9744

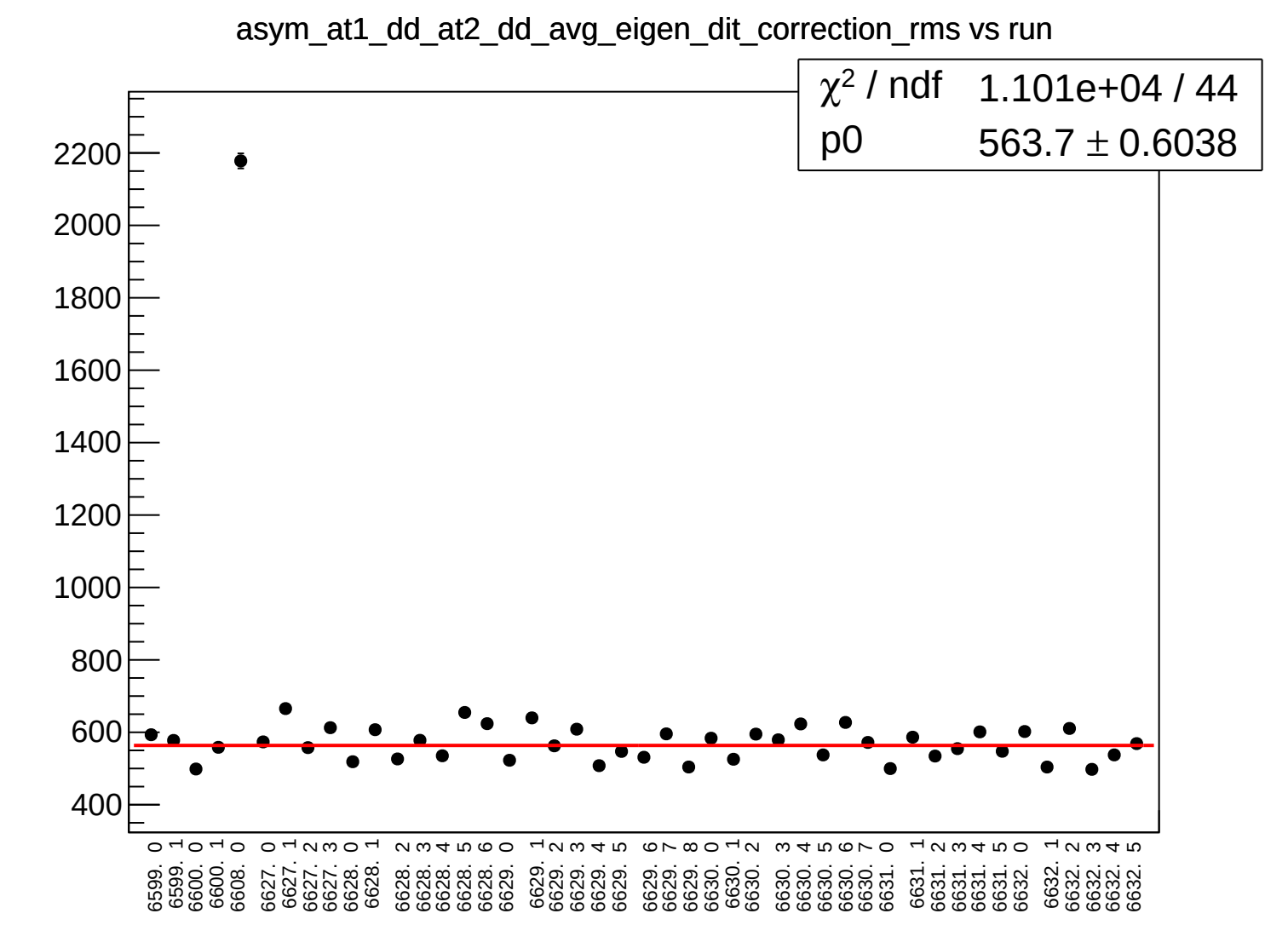

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 1.101e+04 / 44
p0 563.7 ± 0.6038
2200
2000
1800
1600
1400
1200
1000
800
600
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

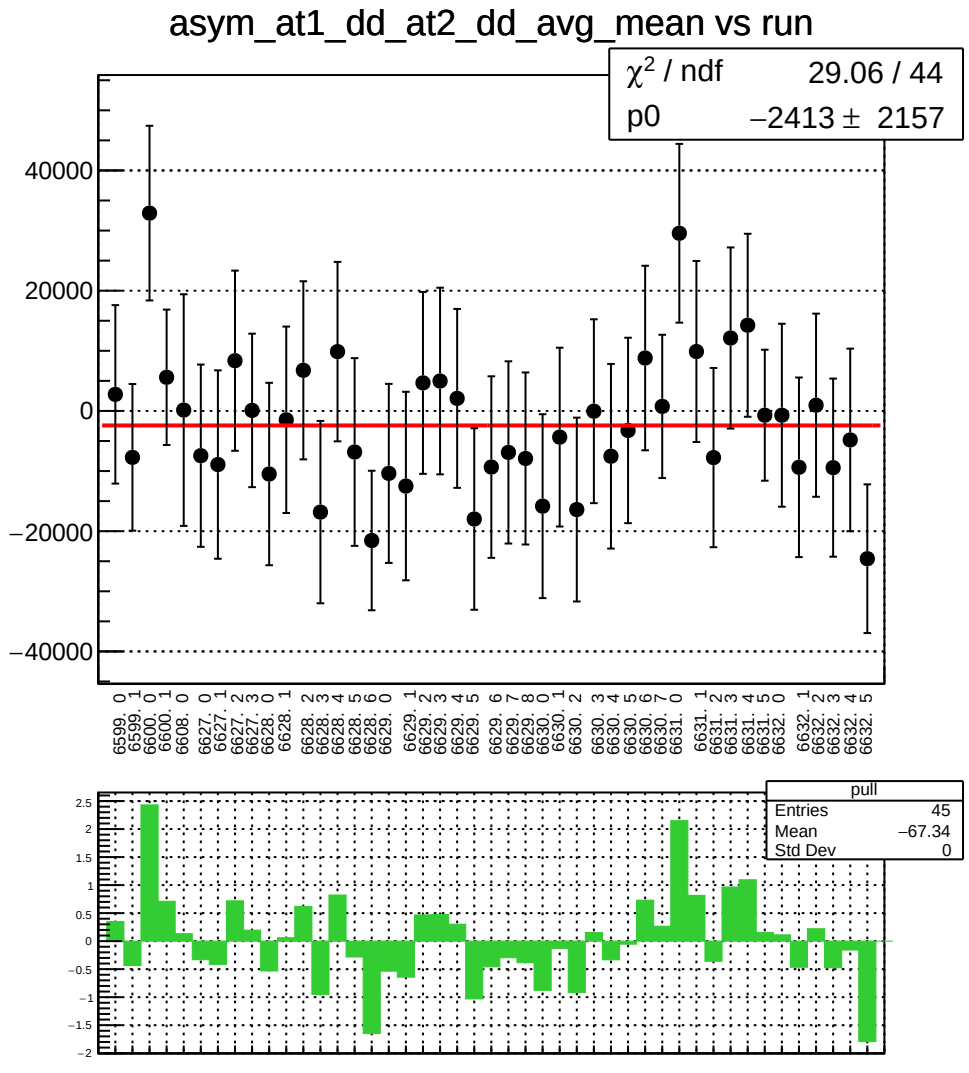

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 35.42 / 44
p0 −4496 ± 1994
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 28.52
Std Dev 29.82
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01341
Std Dev 0.8871
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

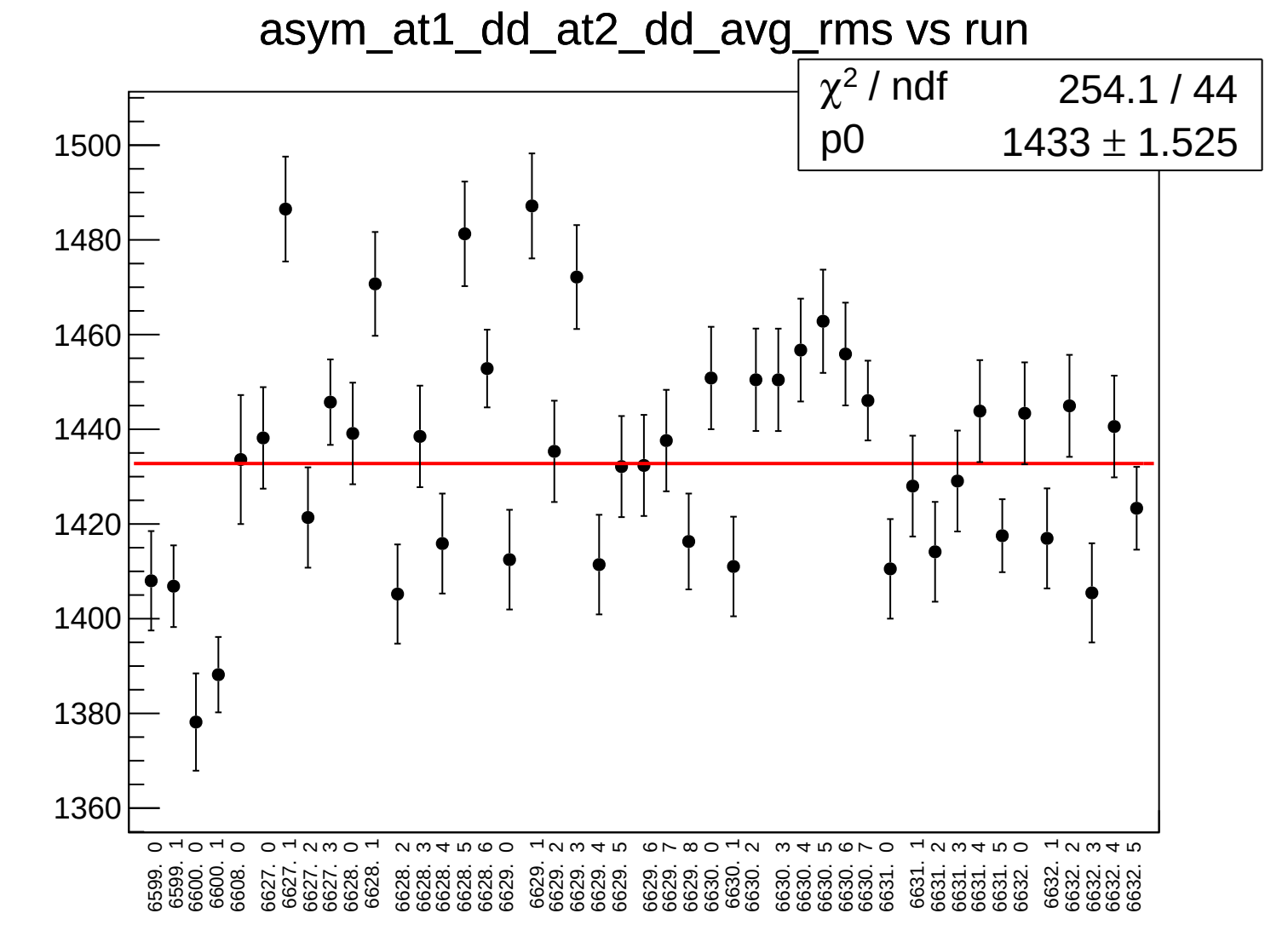

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 1793 / 44
p0 1323 ± 1.41
1400
1300
1200
1100
1000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 42.73 / 44
p0 −1919 ± 853.9
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 252.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.00779
Std Dev 0.9744
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.101e+04 / 44
p0 563.7 ± 0.6038
2200
2000
1800
1600
1400
1200
1000
800
600
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 29.06 / 44
p0 −2413 ± 2157
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −67.34
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.009928
Std Dev 0.8035
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 254.1 / 44
p0 1433 ± 1.525
1500
1480
1460
1440
1420
1400
1380
1360
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
6631. 5
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6632. 2
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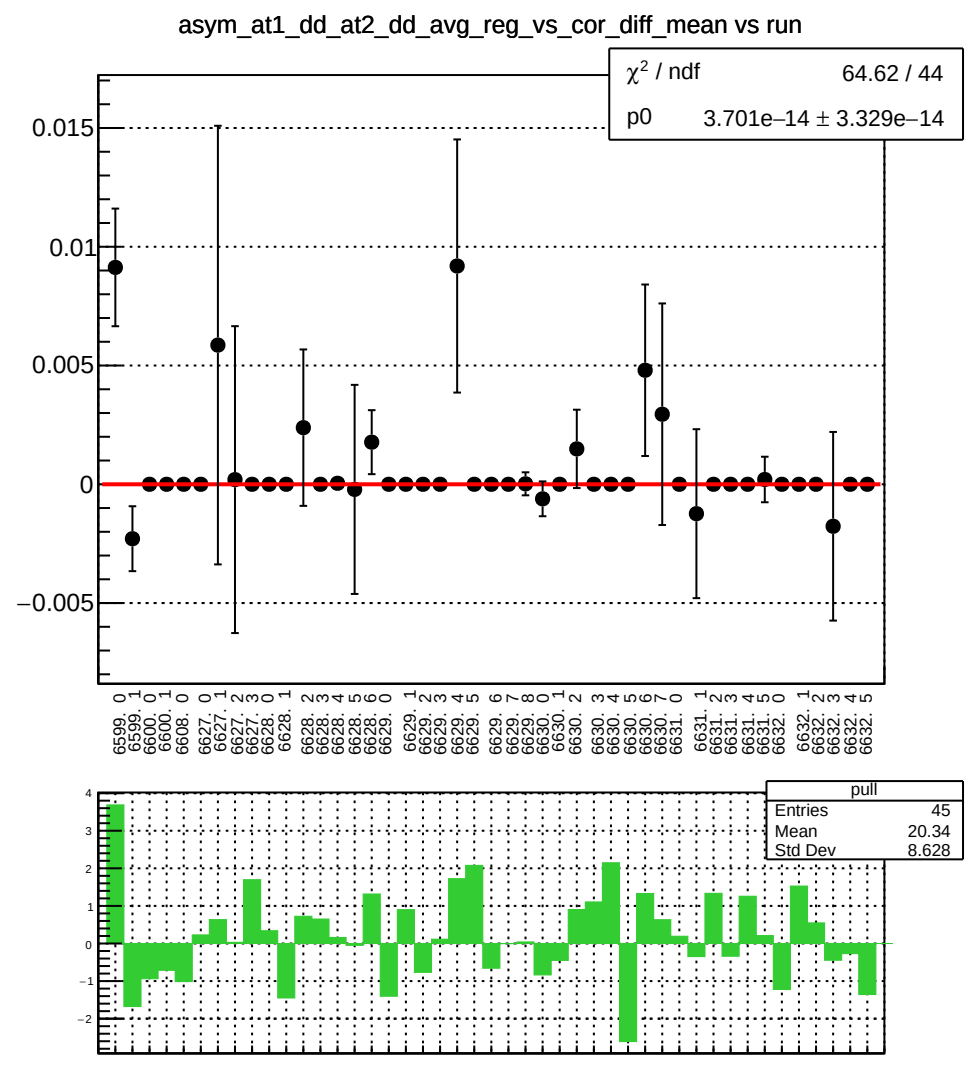
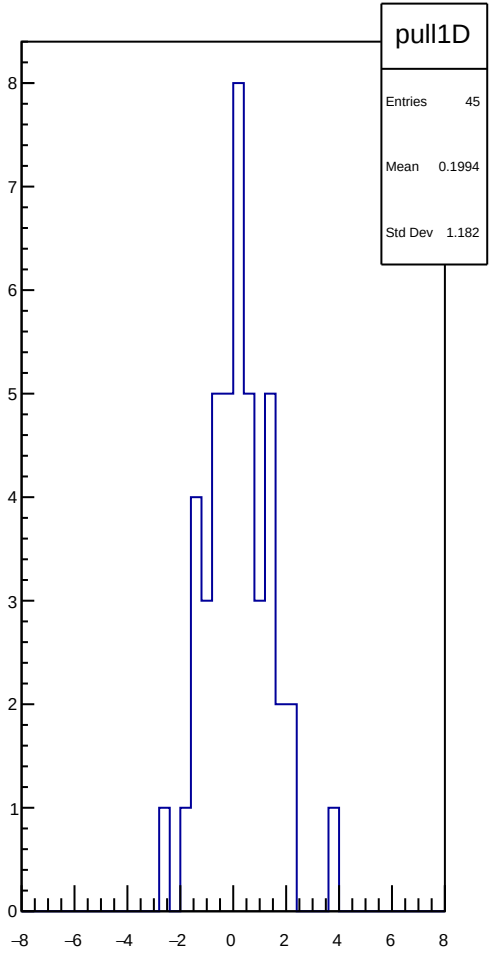
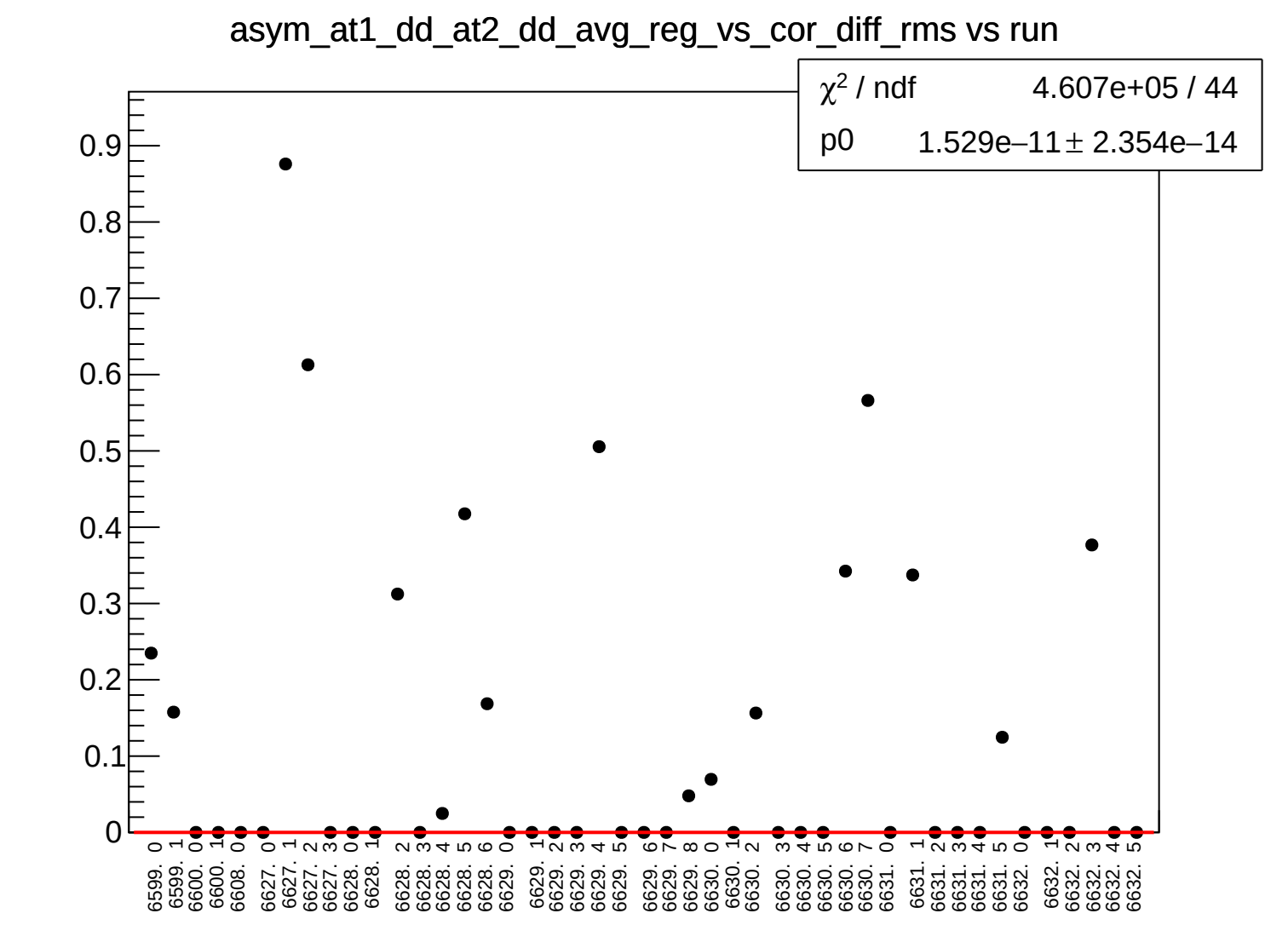
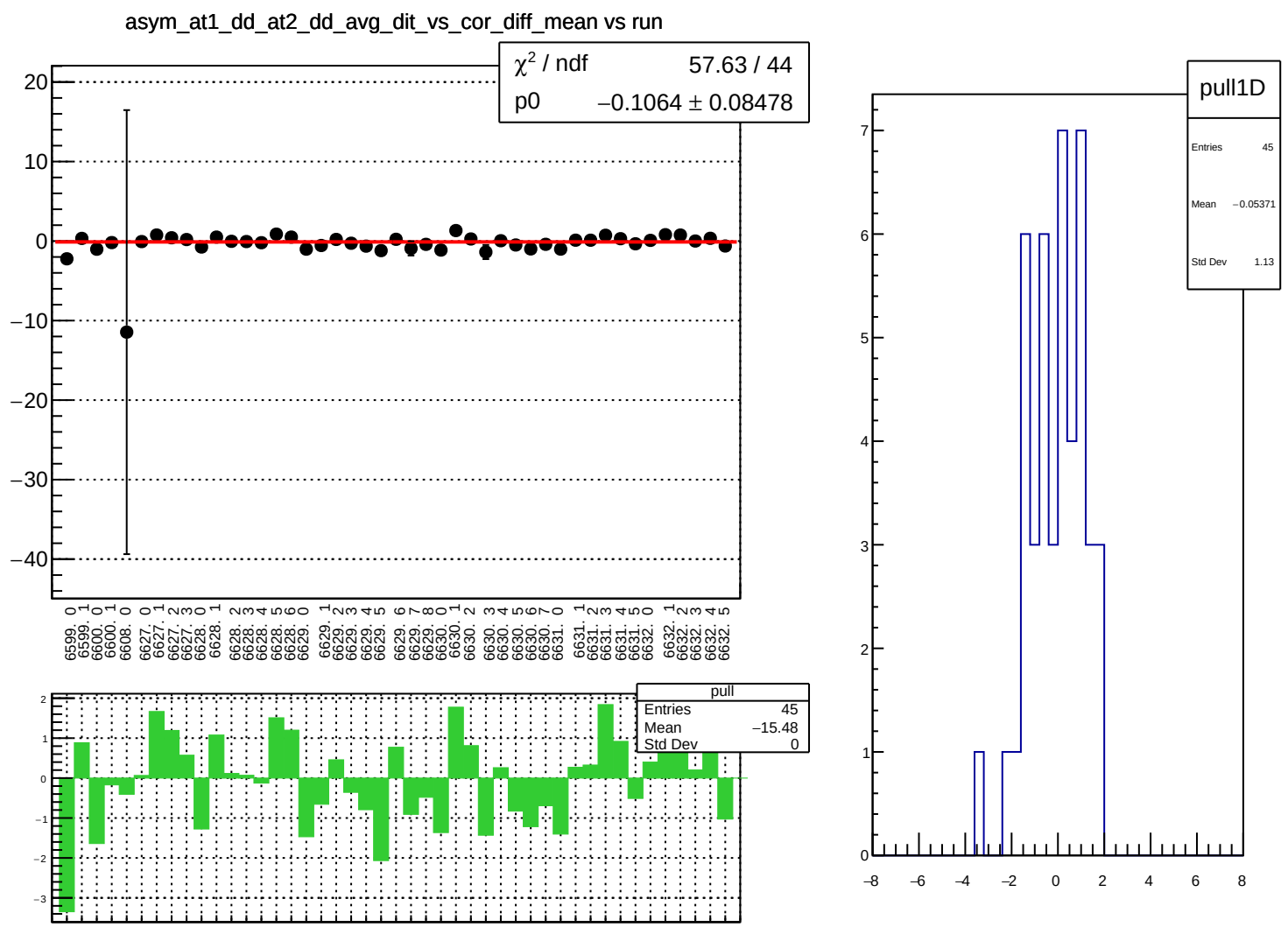
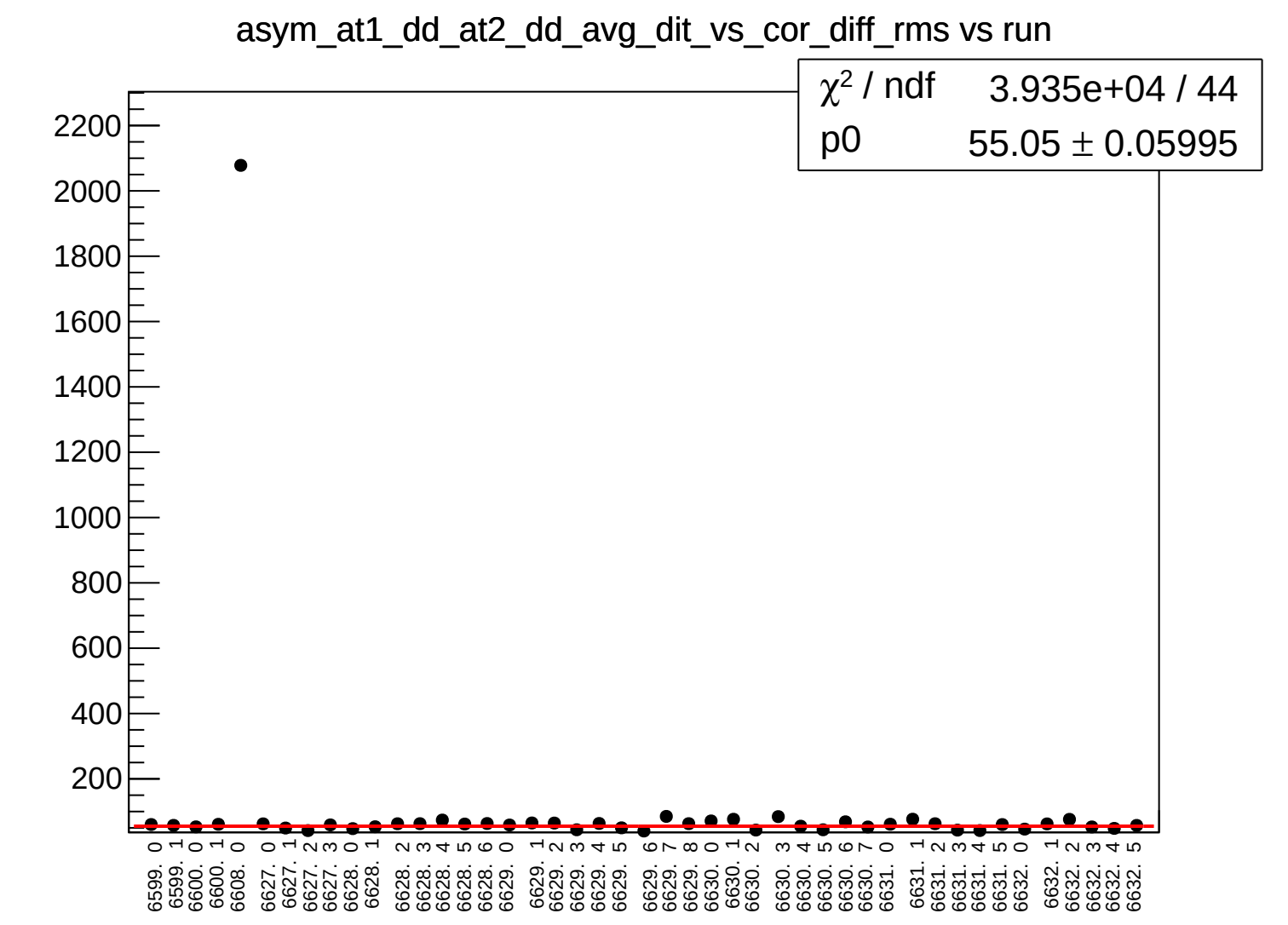
6632. 4
6632. 5

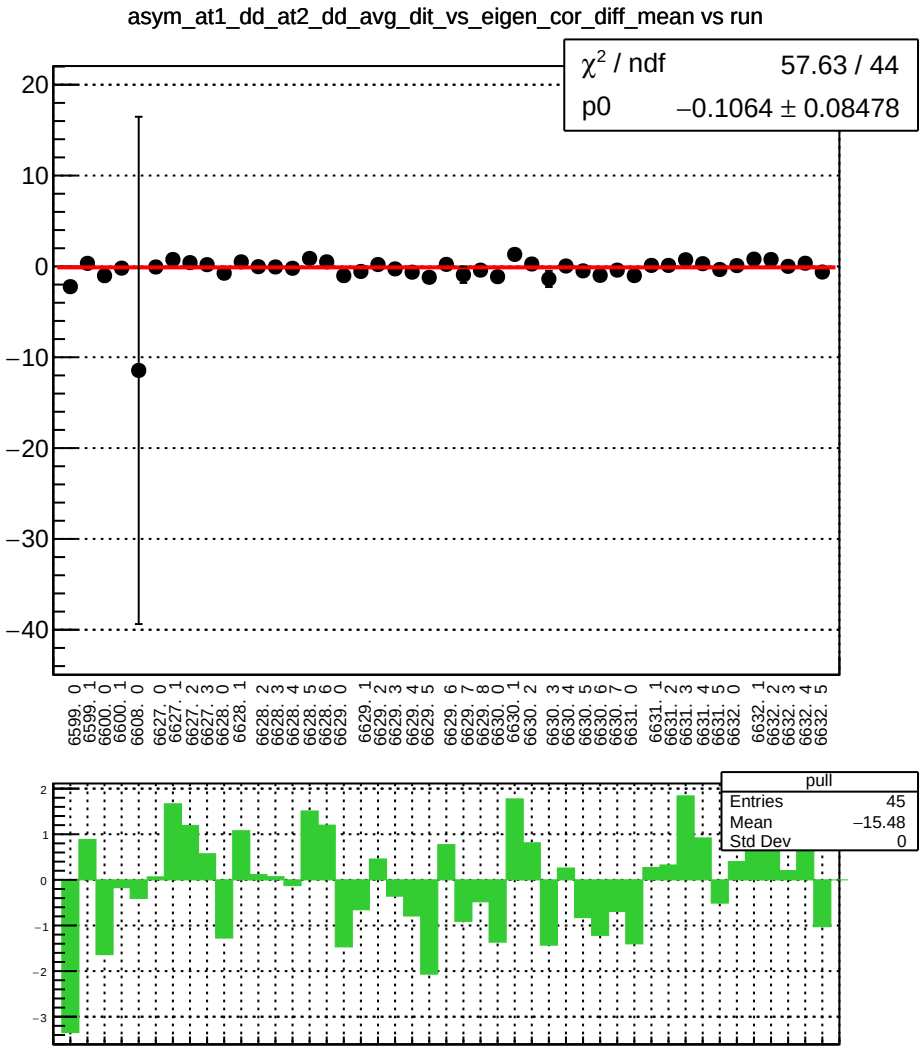

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 64.62 / 44
p0 3.701e−14 ± 3.329e−14
0.015
0.01
0.005
0
−0.005
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 20.34
Std Dev 8.628
4
3
2
1
0
−1
−2

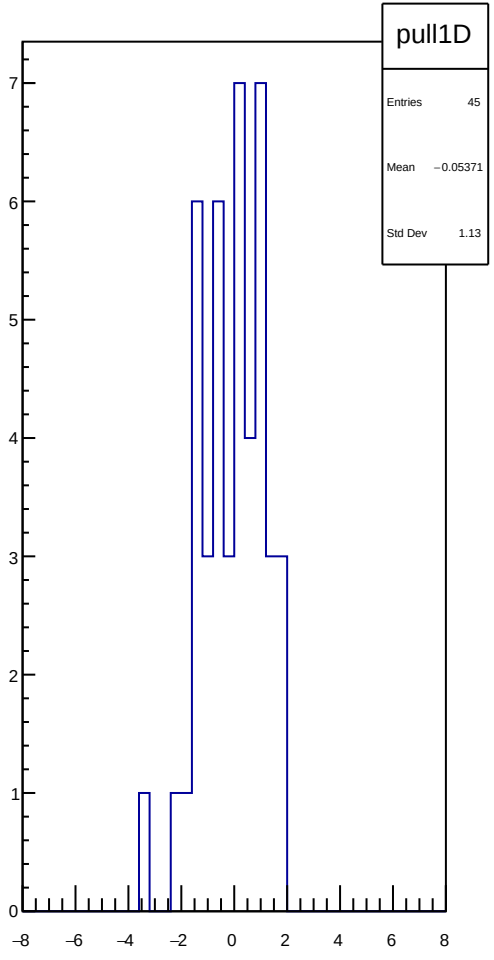

pull1D
Entries 45
Mean 0.1994
Std Dev 1.182
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

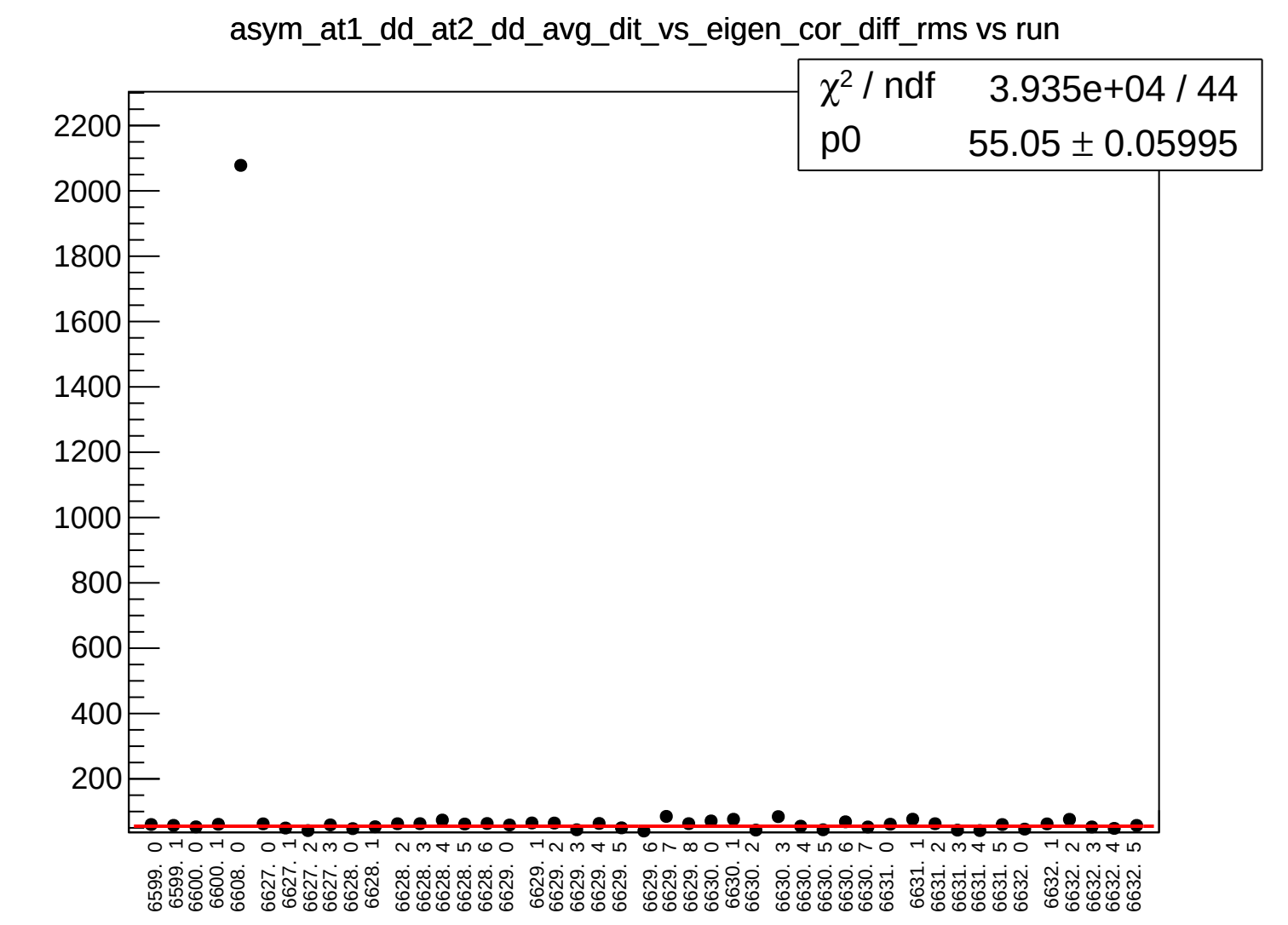

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.607e+05 / 44
p0 1.529e−11 ± 2.354e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

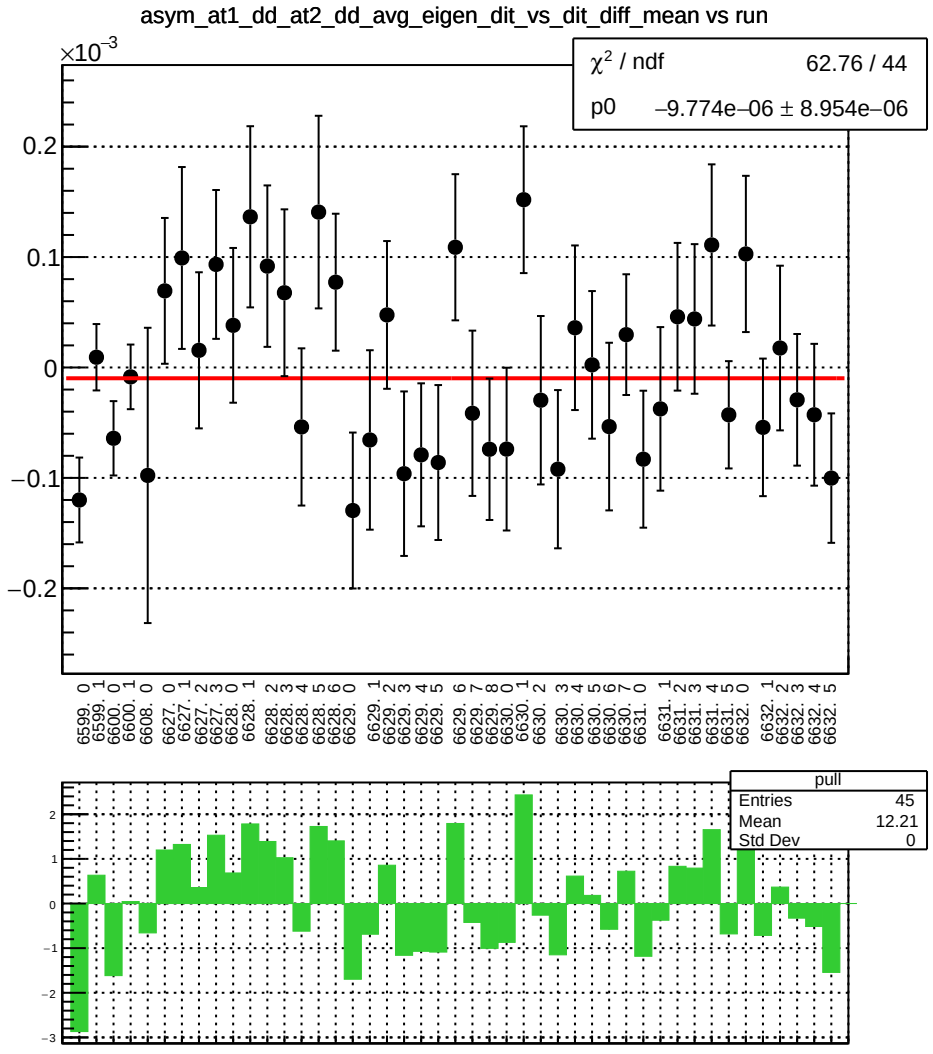

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 57.63 / 44
p0 −0.1064 ± 0.08478
pull
Entries 45
Mean −15.48
Std Dev 0
pull1D
Entries 45
Mean −0.05371
Std Dev 1.13

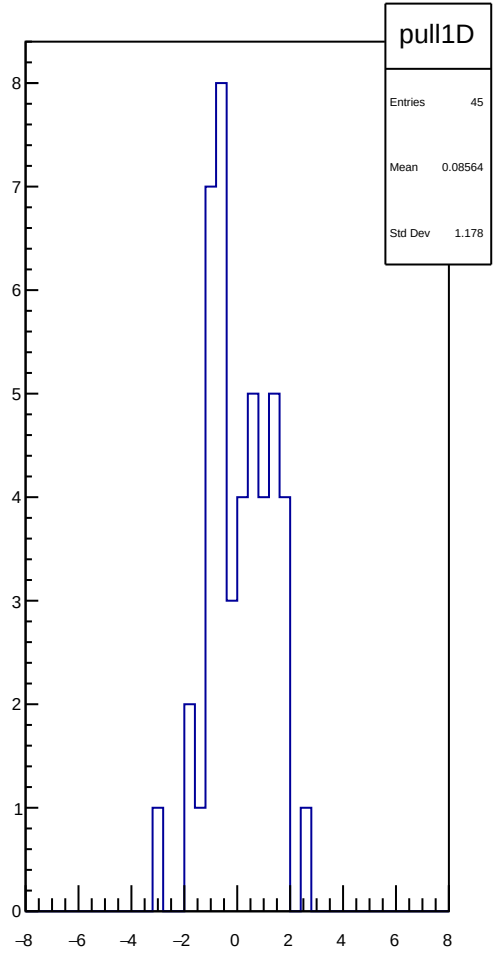

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.935e+04 / 44
p0 55.05 ± 0.05995
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

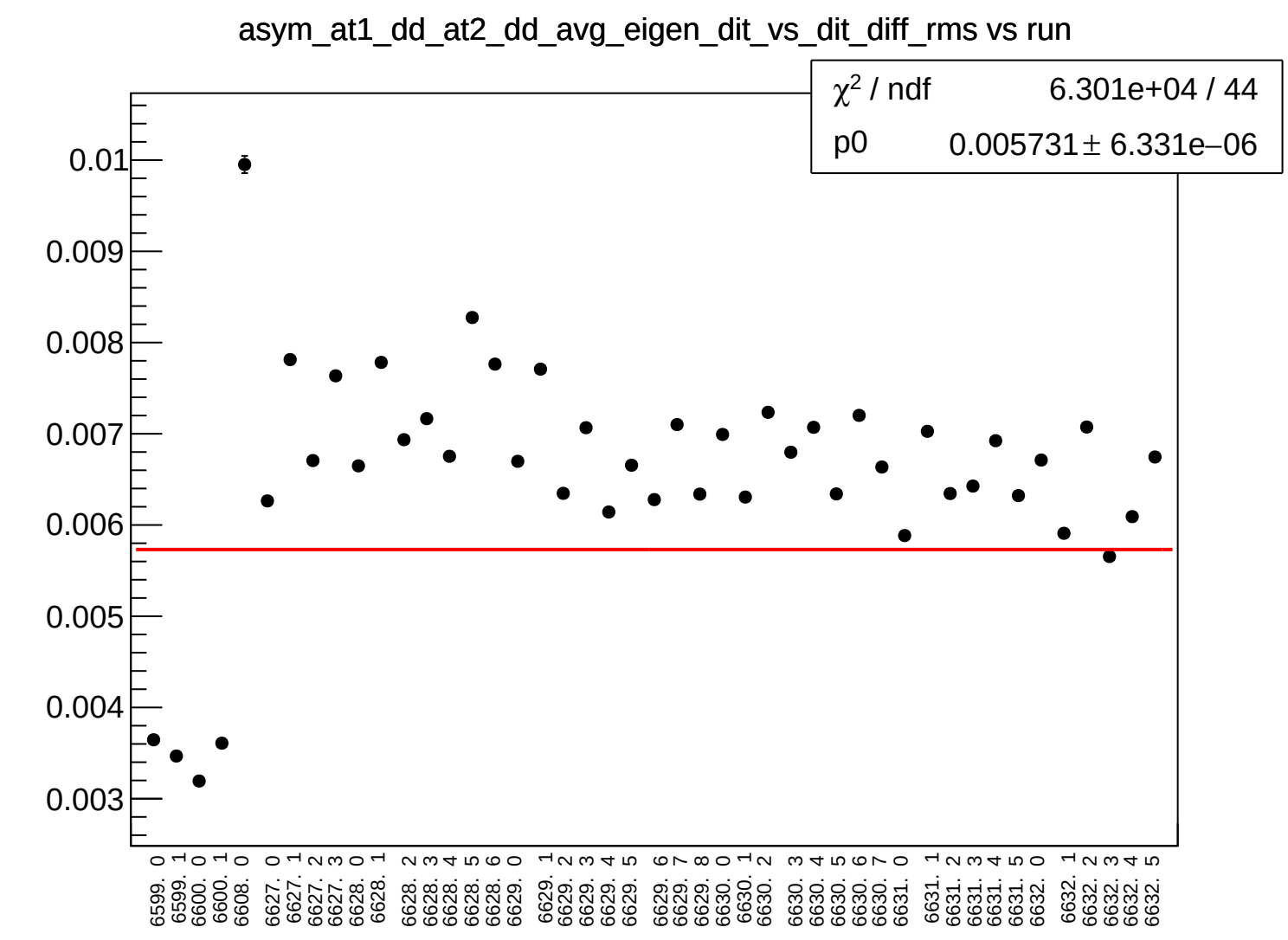

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.63 / 44
p0 −0.1064 ± 0.08478
pull
Entries 45
Mean −15.48
Std Dev 0

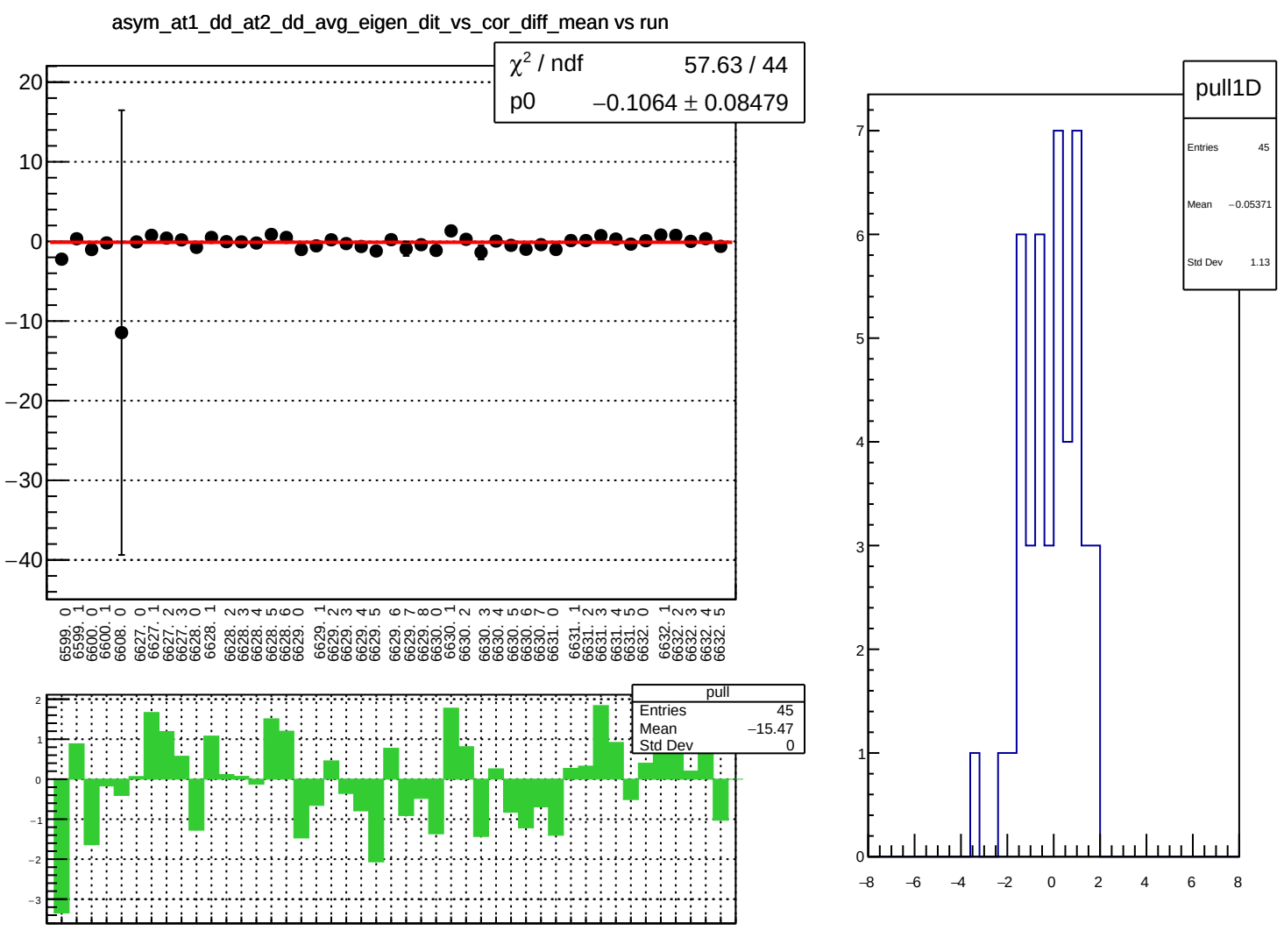

pull1D
Entries 45
Mean −0.05371
Std Dev 1.13

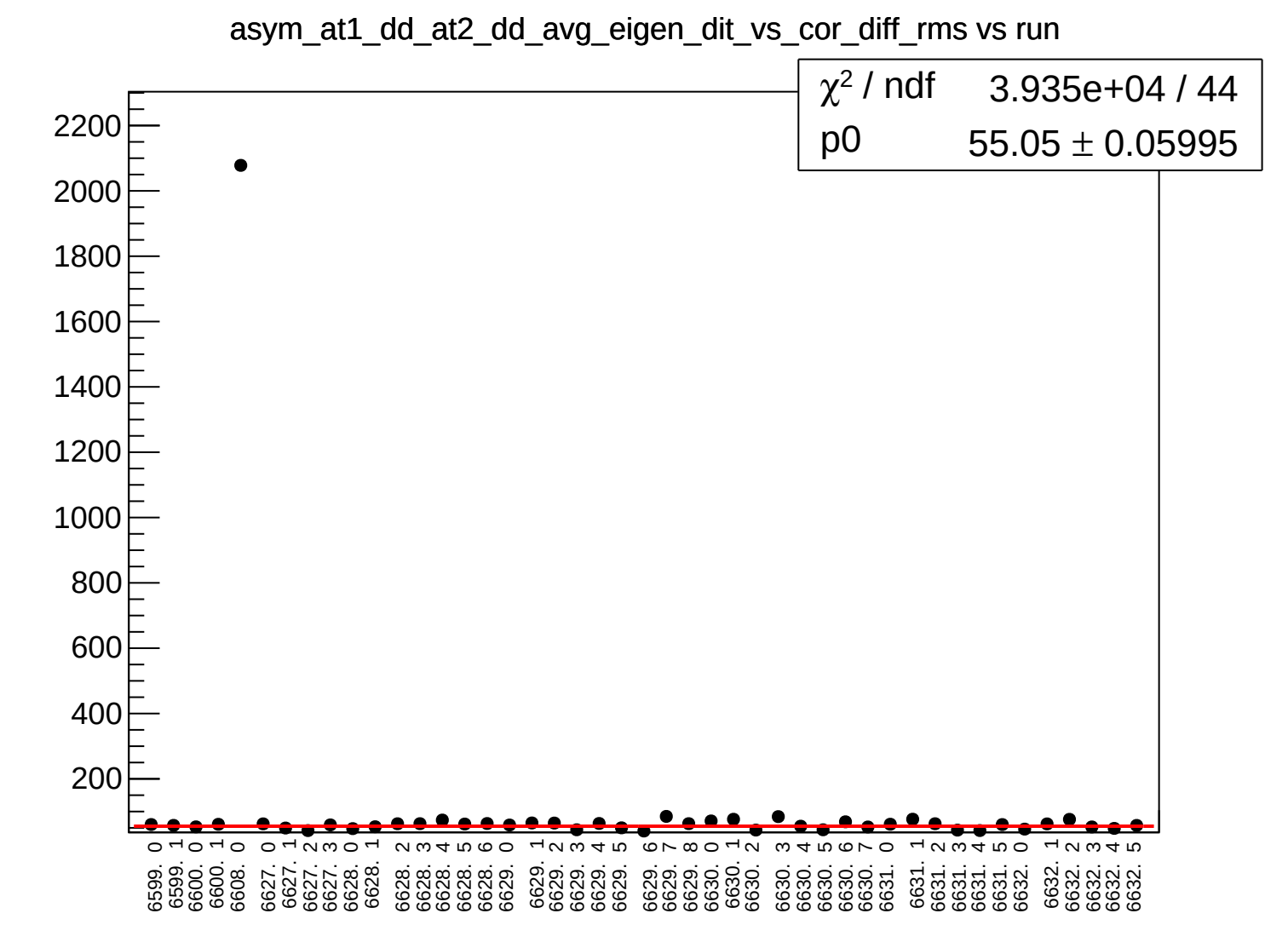

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.935e+04 / 44
p0 55.05 ± 0.05995
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

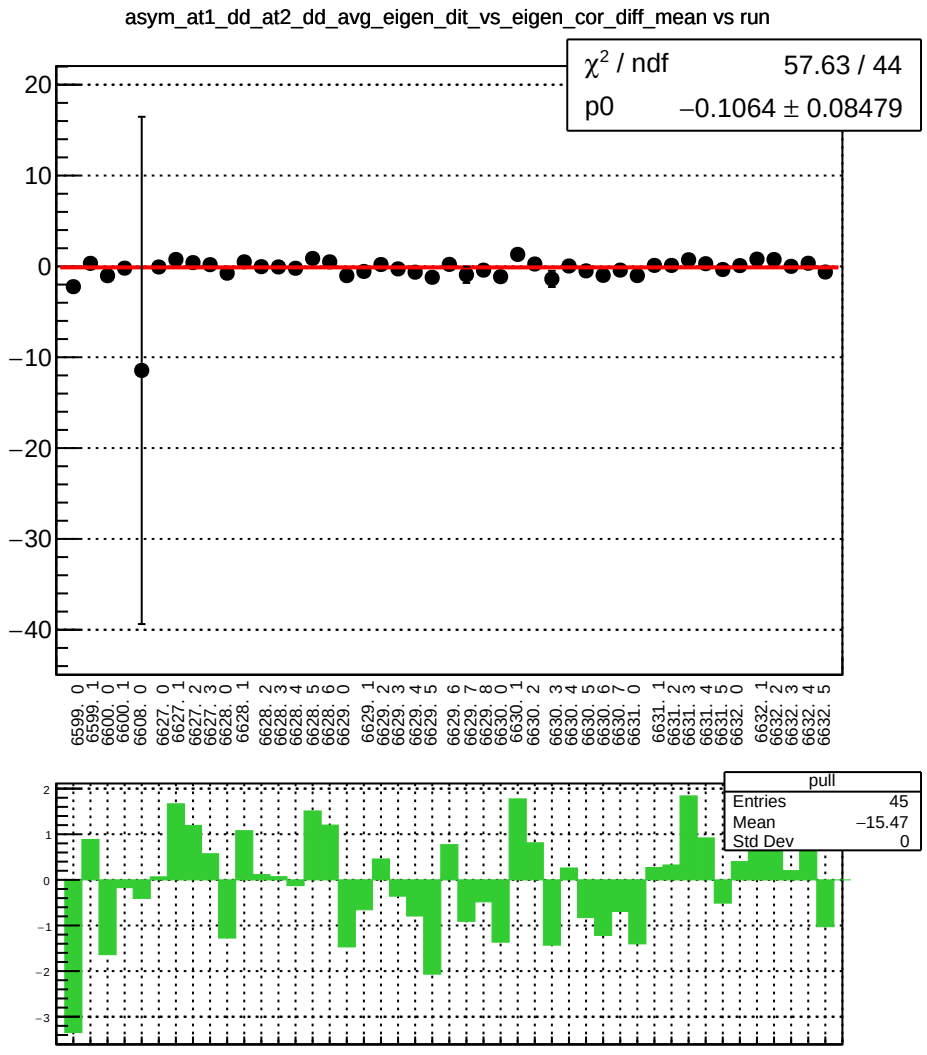

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 62.76 / 44
p0 −9.774e−06 ± 8.954e−06
0.2
0.1
0
−0.1
−0.2
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 12.21
Std Dev 0
2
1
0
−1
−2
−3

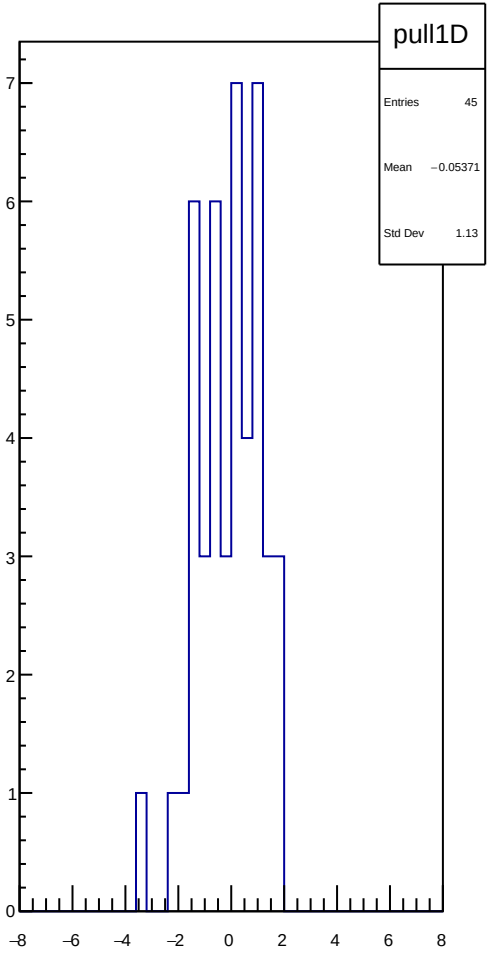

pull1D
Entries 45
Mean 0.08564
Std Dev 1.178
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

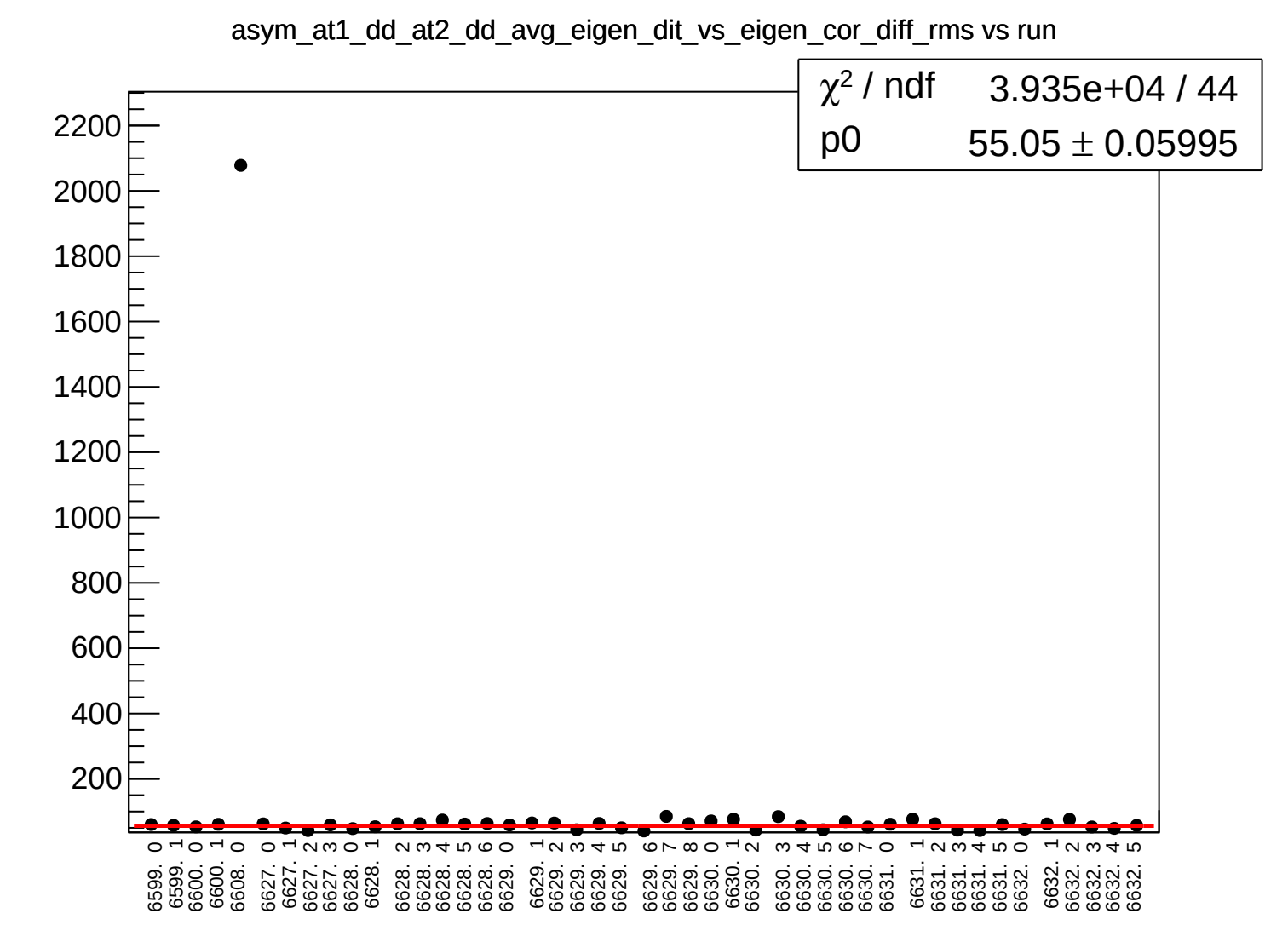

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.301e+04 / 44
p0 0.005731 ± 6.331e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

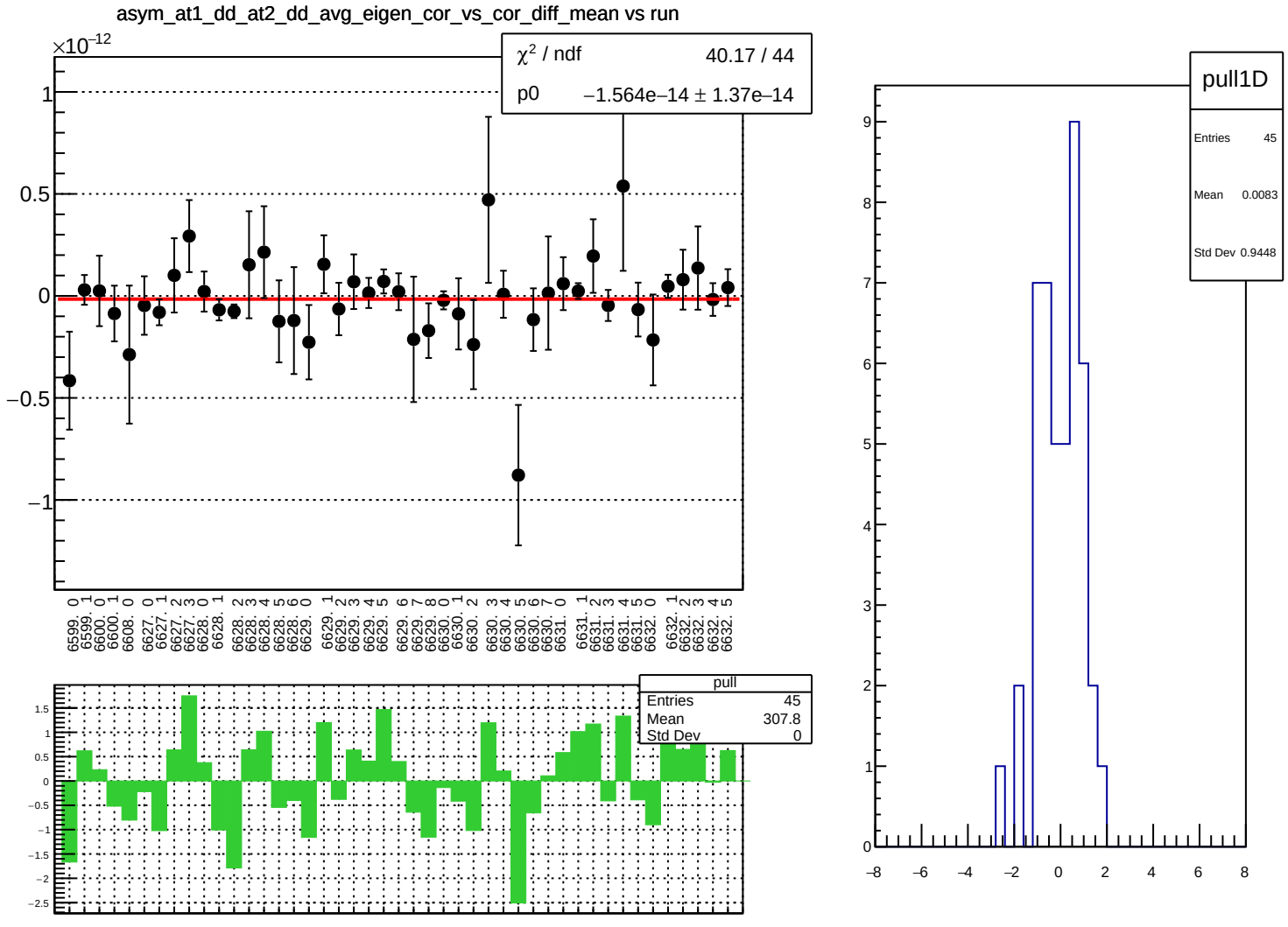

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 57.63 / 44
p0 −0.1064 ± 0.08479
20
10
0
−10
−20
−30
−40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −15.47
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.05371
Std Dev 1.13
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

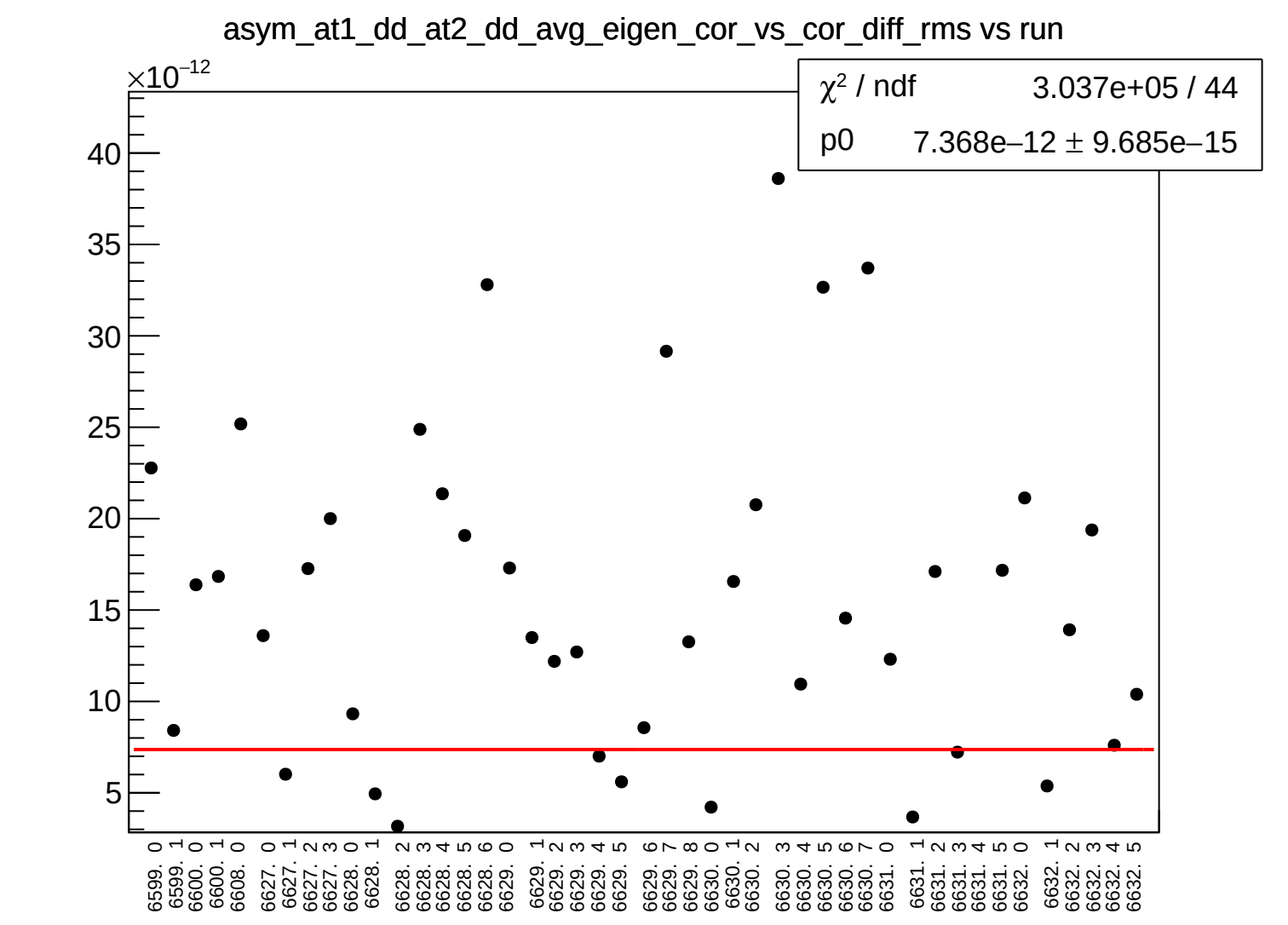

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.935e+04 / 44
p0 55.05 ± 0.05995
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

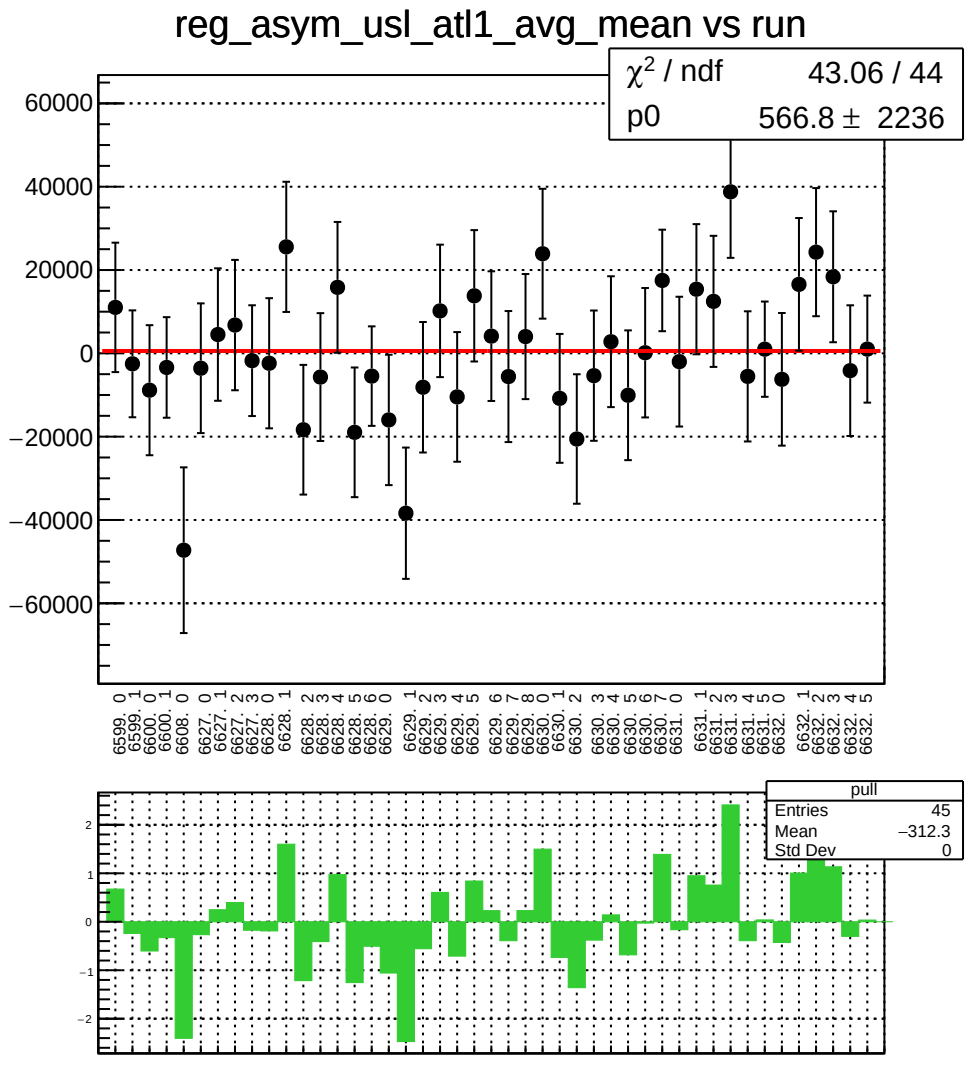

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.63 / 44
p0 −0.1064 ± 0.08479
20
10
0
−10
−20
−30
−40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −15.47
Std Dev 0
2
1
0
−1
−2
−3

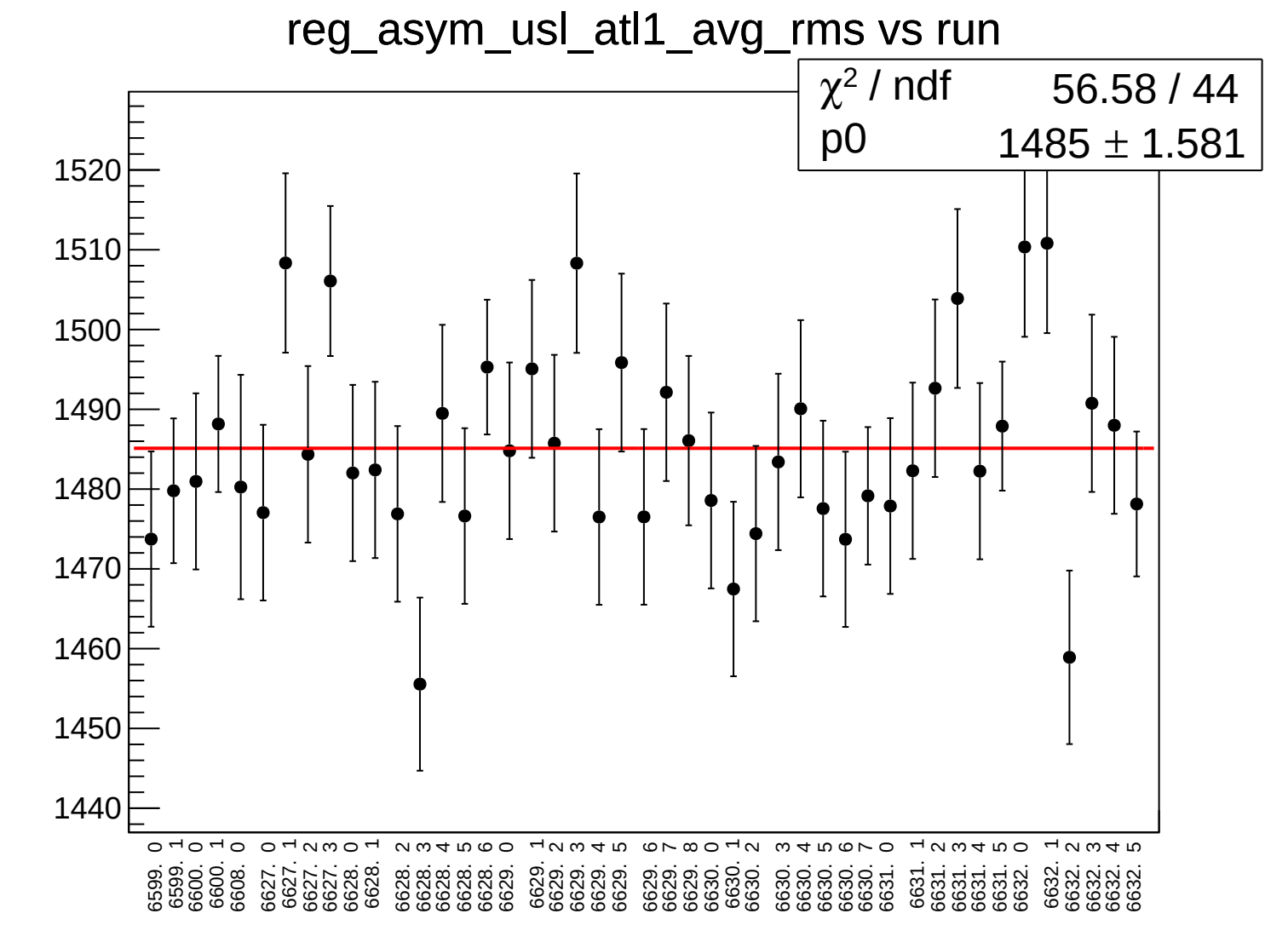

pull1D
Entries 45
Mean −0.05371
Std Dev 1.13
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

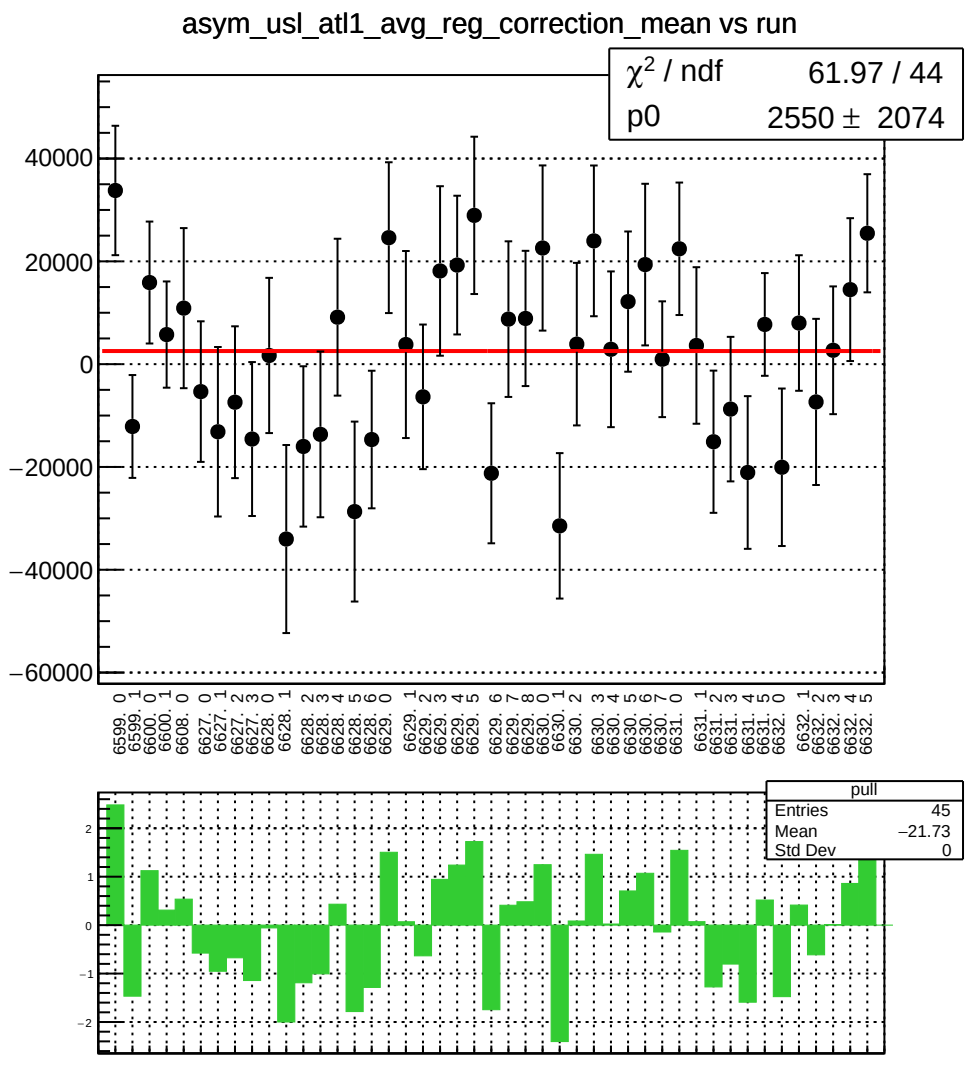

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.935e+04 / 44
p0 55.05 ± 0.05995
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

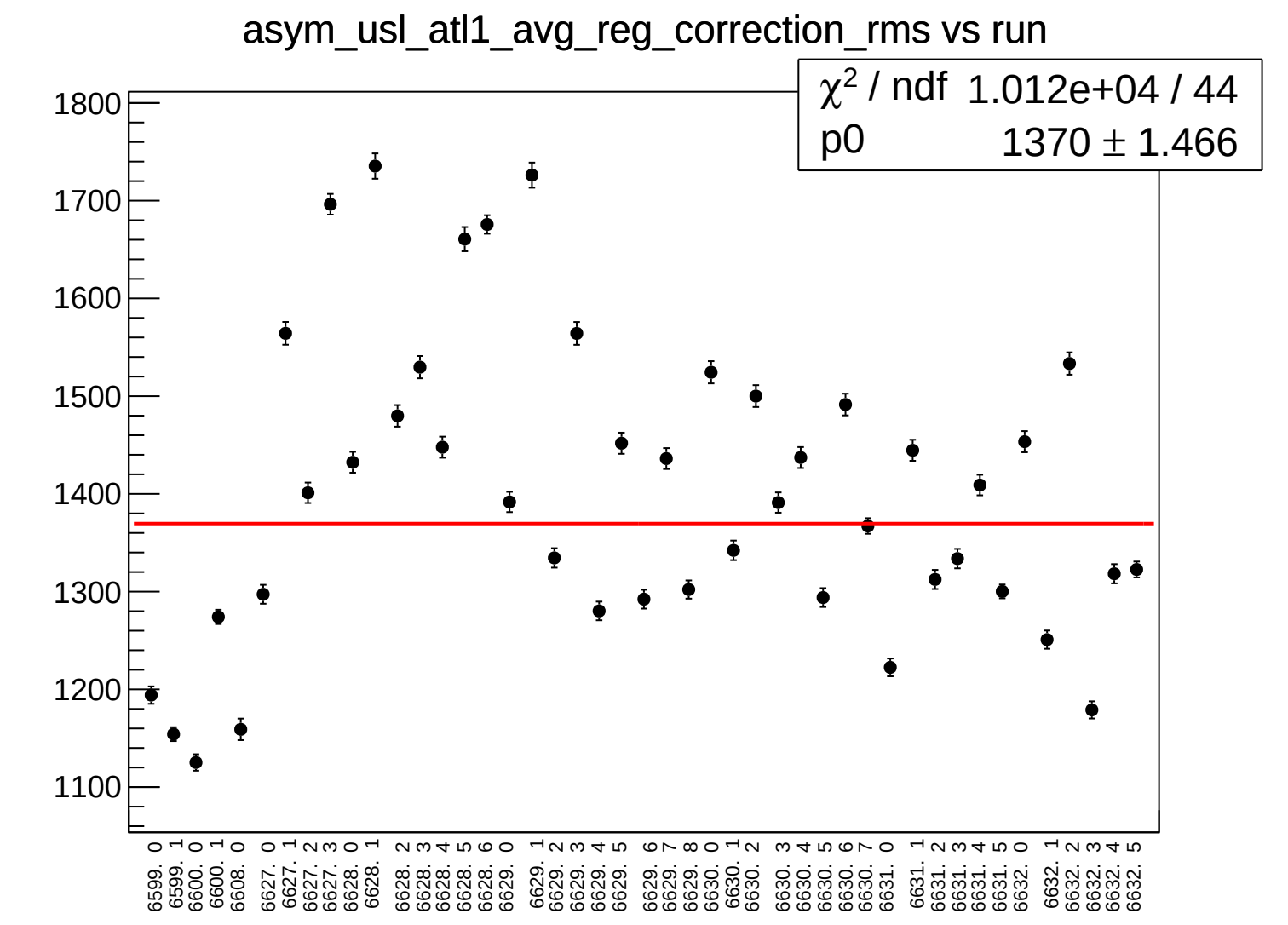

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 40.17 / 44
p0 −1.564e−14 ± 1.37e−14
1
0.5
0
−0.5
−1
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 307.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.0083
Std Dev 0.9448
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

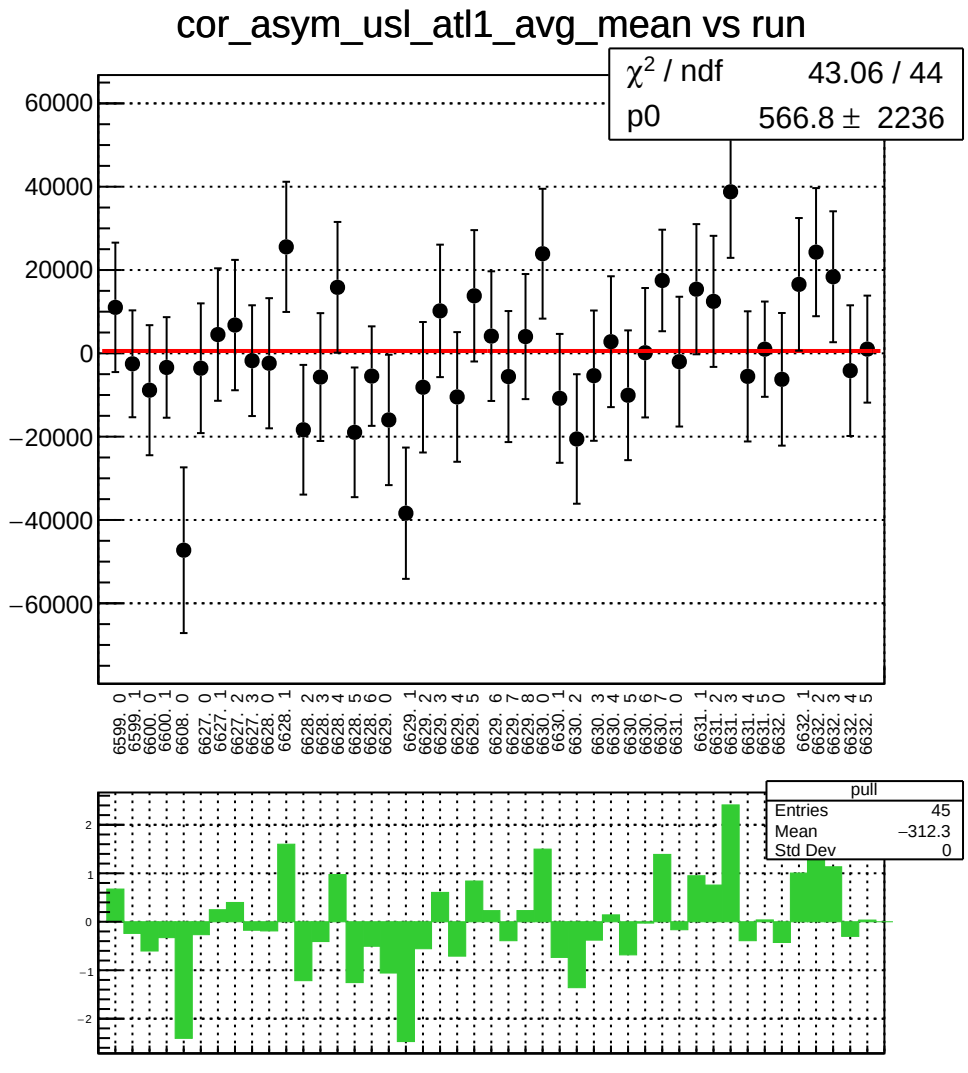

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.037e+05 / 44
p0 7.368e−12 ± 9.685e−15
40
35
30
25
20
15
10
5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 43.06 / 44
p0 566.8 ± 2236
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −312.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01201
Std Dev 0.9782
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 56.58 / 44
p0 1485 ± 1.581
1520
1510
1500
1490
1480
1470
1460
1450
1440
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 61.97 / 44
p0 2550 ± 2074
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −21.73
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.03455
Std Dev 1.173
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 1.012e+04 / 44
p0 1370 ± 1.466
1800
1700
1600
1500
1400
1300
1200
1100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 43.06 / 44
p0 566.8 ± 2236
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 3
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6630. 5
6630. 6
6630. 7
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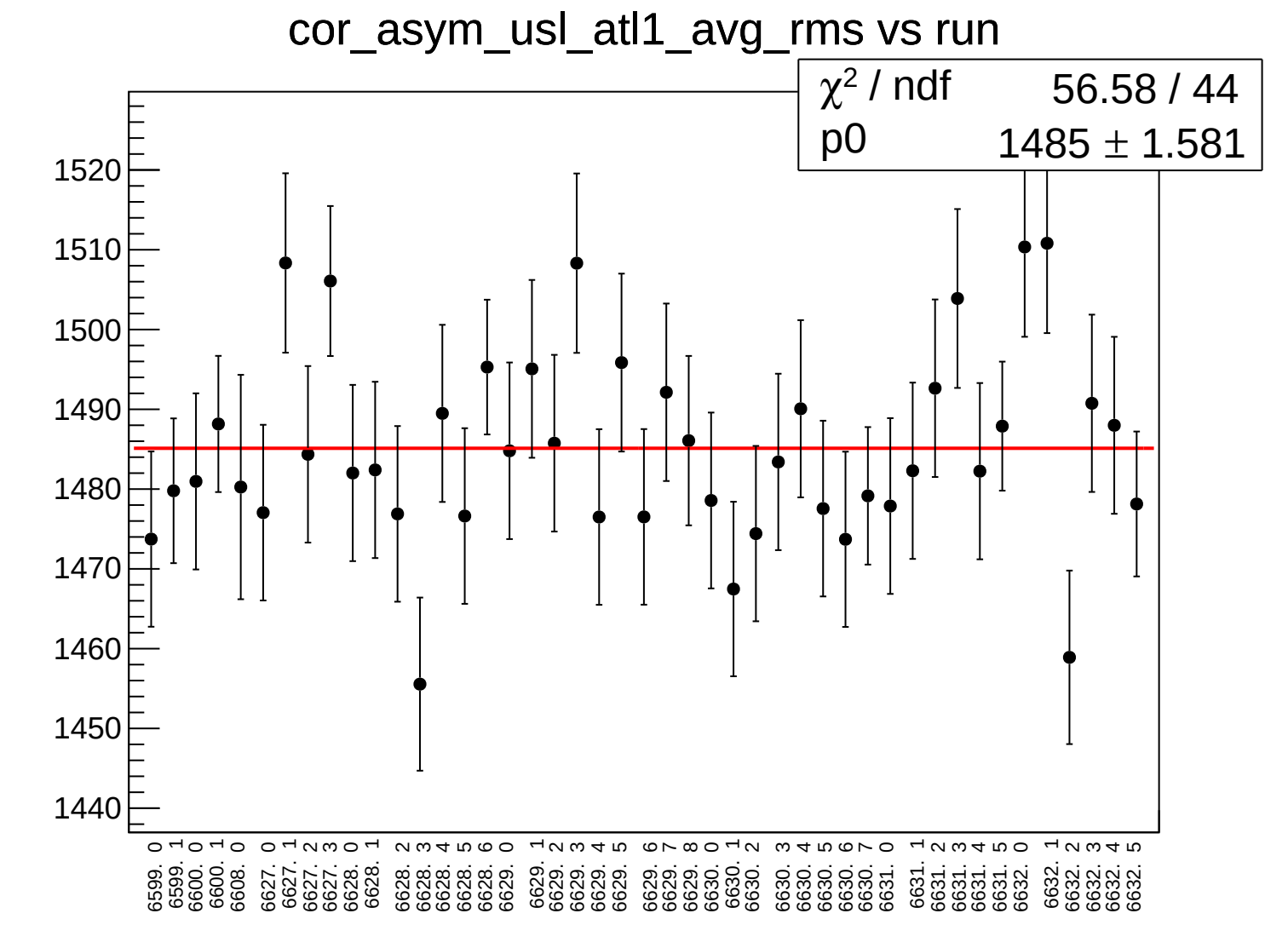
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −312.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01201
Std Dev 0.9782
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 56.58 / 44
p0 1485 ± 1.581
1520
1510
1500
1490
1480
1470
1460
1450
1440
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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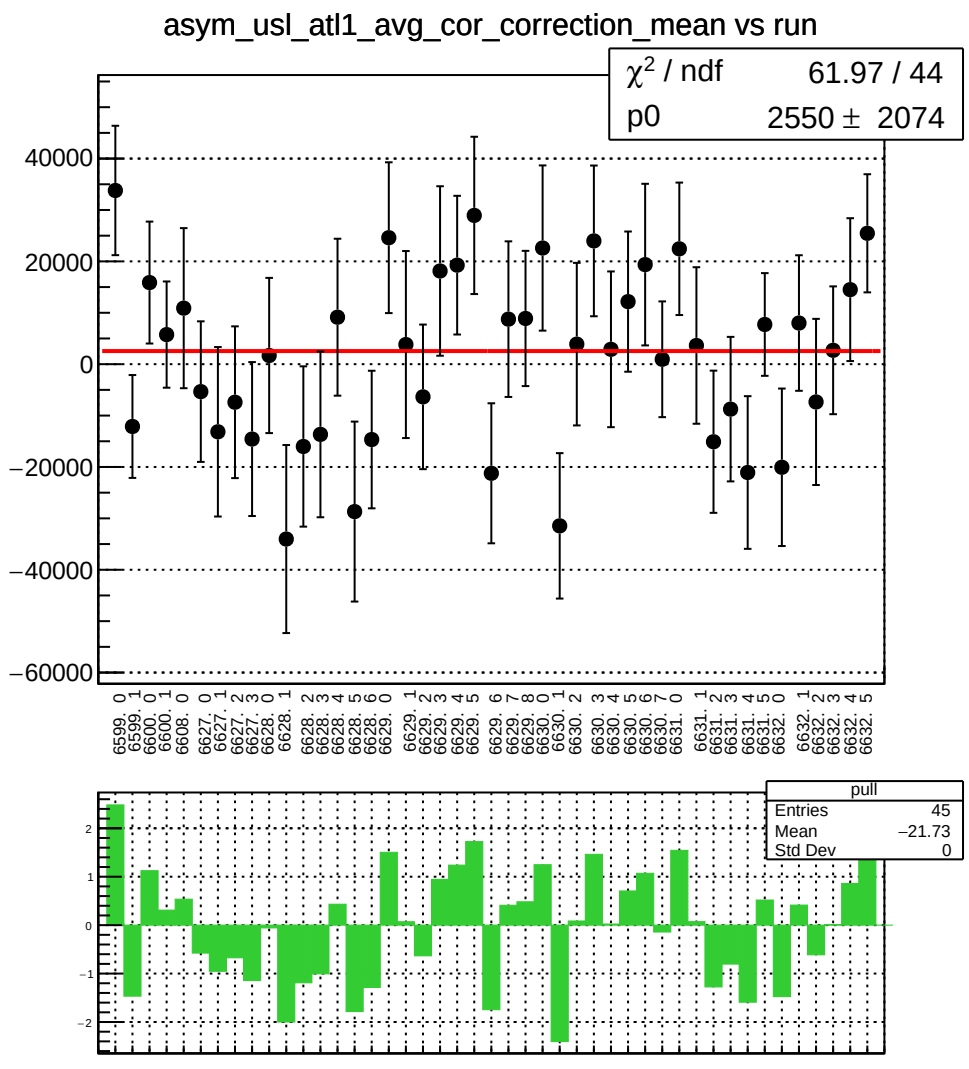
asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 61.97 / 44
p0 2550 ± 2074
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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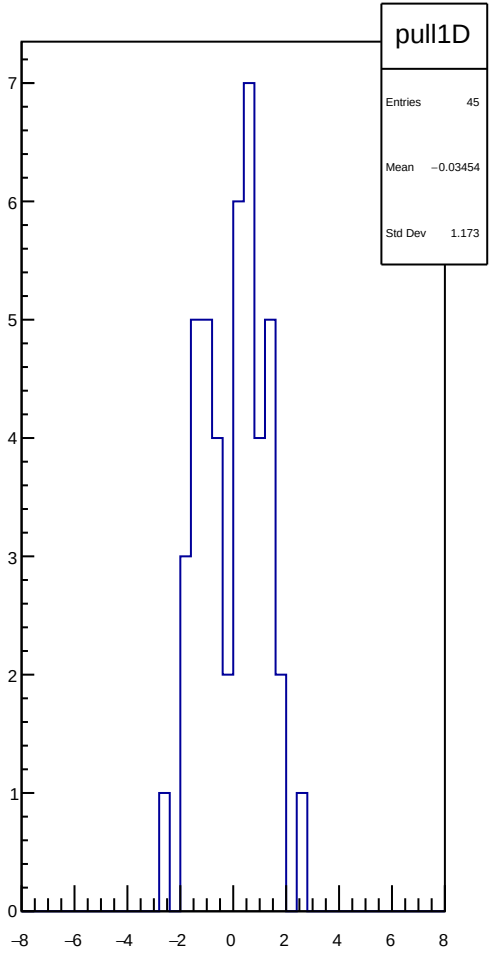
pull
Entries 45
Mean −21.73
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.03454
Std Dev 1.173
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4
3
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1
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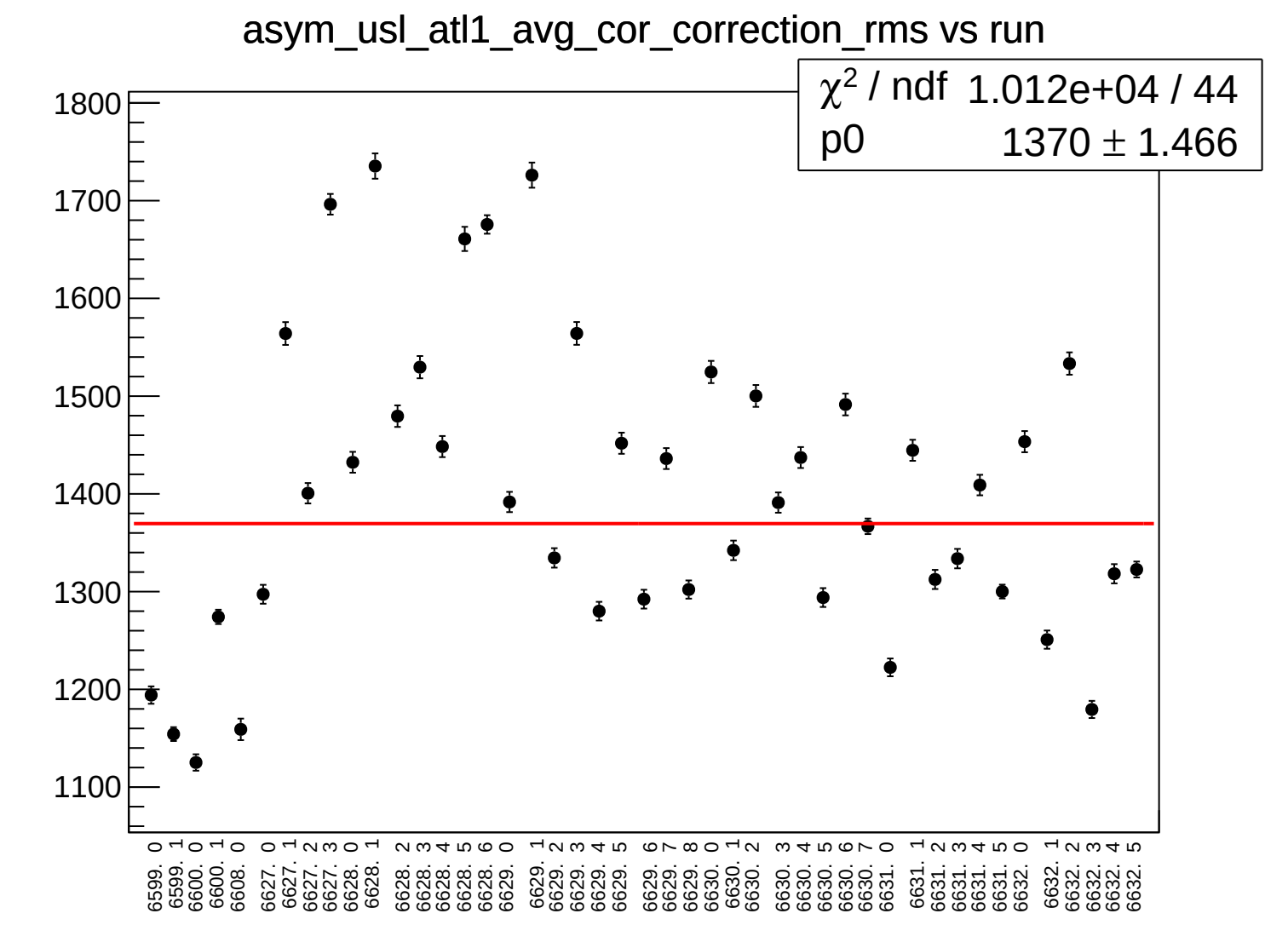
−4
−2
0
2
4
6
8


asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 1.012e+04 / 44
p0 1370 ± 1.466
1800
1700
1600
1500
1400
1300
1200
1100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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6628. 0
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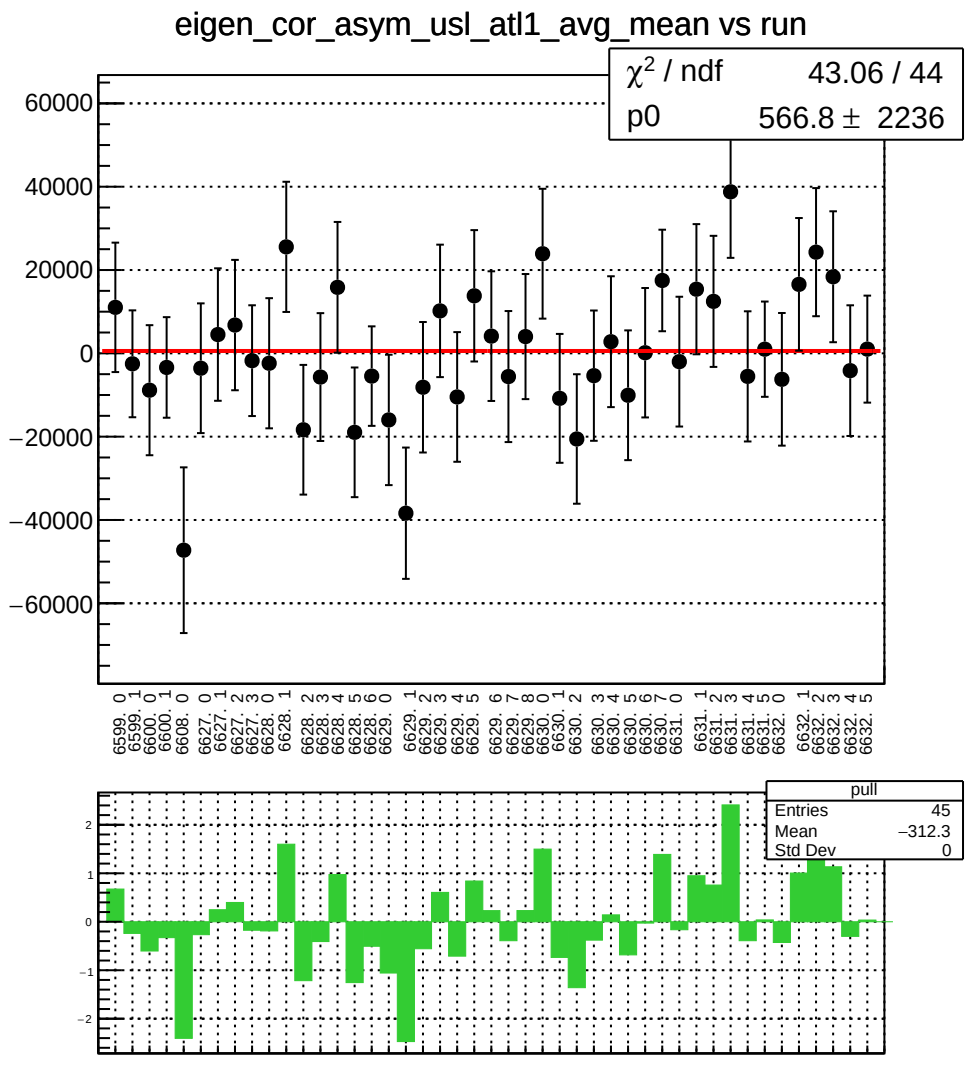
eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 43.06 / 44
p0 566.8 ± 2236
60000
40000
20000
0
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−40000
−60000
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6599. 1
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6600. 1
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6632. 0
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6632. 5
pull
Entries 45
Mean −312.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01201
Std Dev 0.9782
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−4
−2
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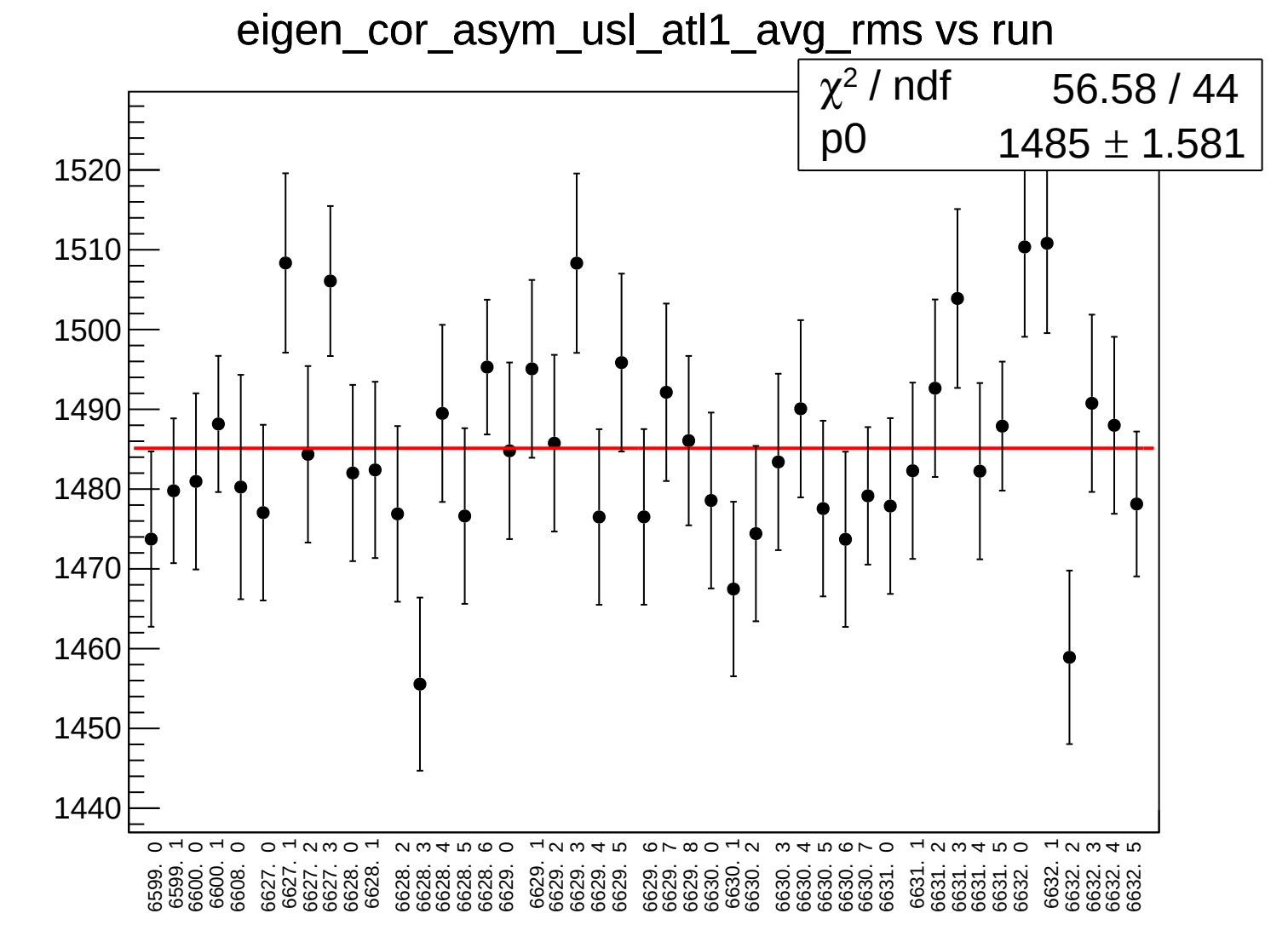
6
8


eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 56.58 / 44
p0 1485 ± 1.581
1520
1510
1500
1490
1480
1470
1460
1450
1440
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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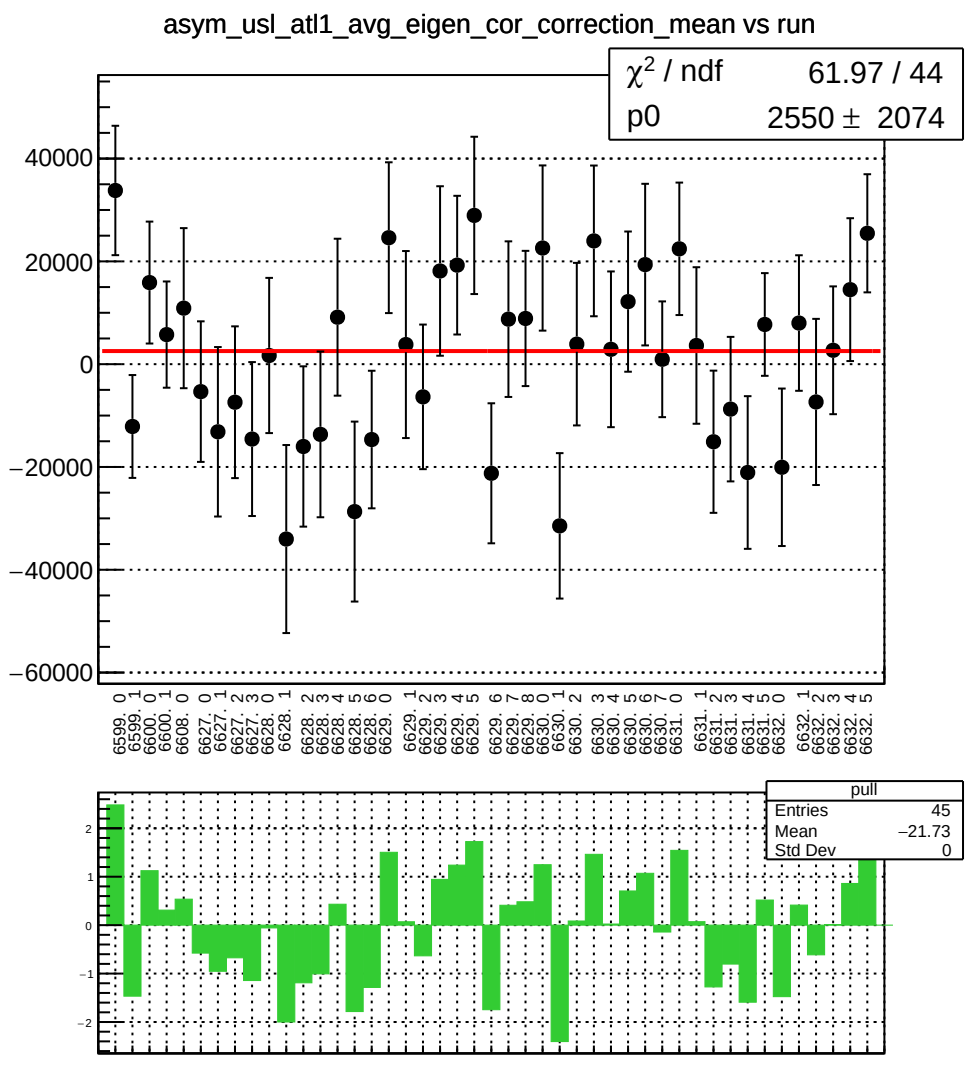
asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 61.97 / 44
p0 2550 ± 2074
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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6631. 4
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6632. 0
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6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −21.73
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.03454
Std Dev 1.173
7
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1
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−4
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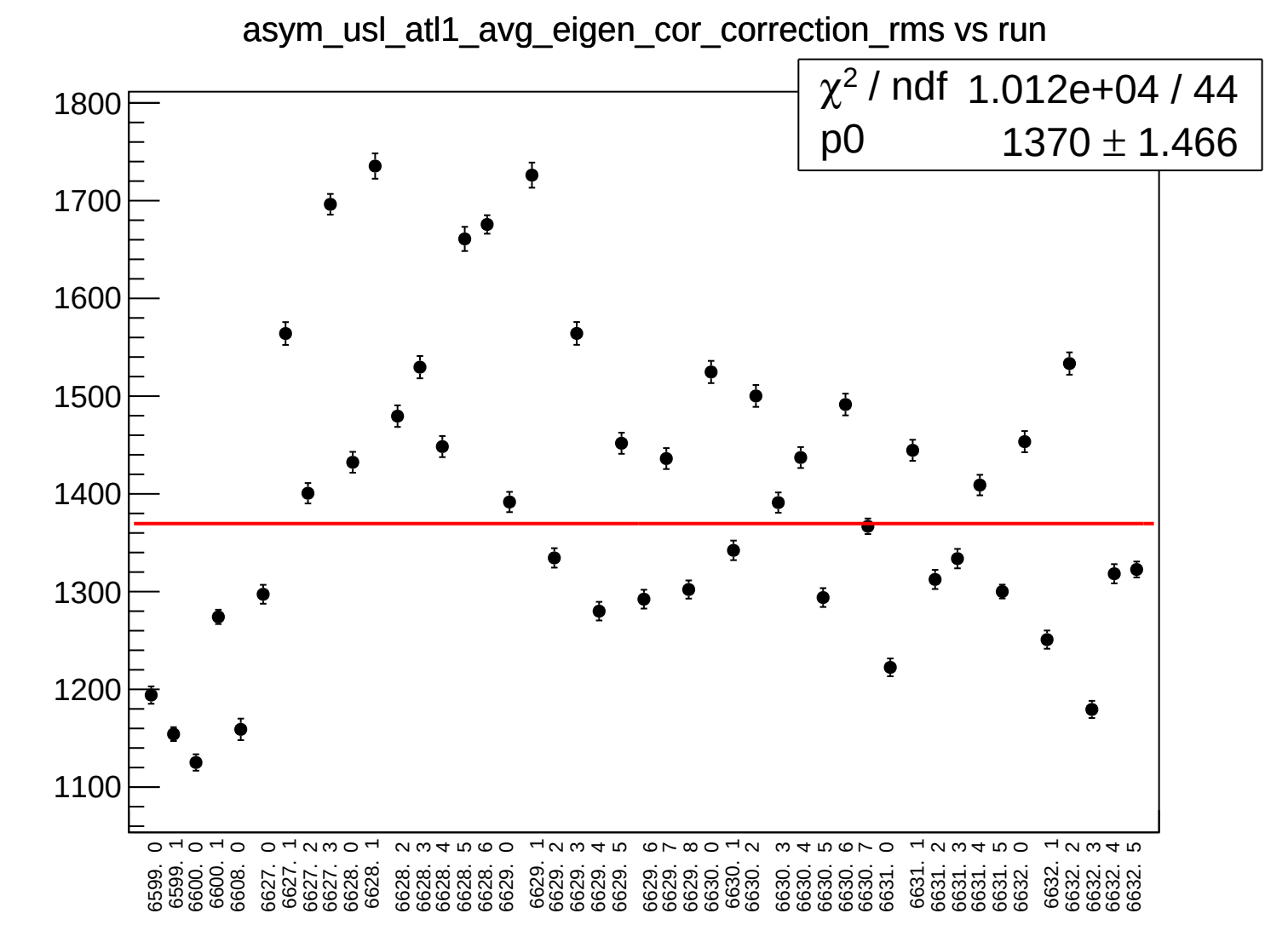
asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.012e+04 / 44
p0 1370 ± 1.466
1800
1700
1600
1500
1400
1300
1200
1100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
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6630. 6
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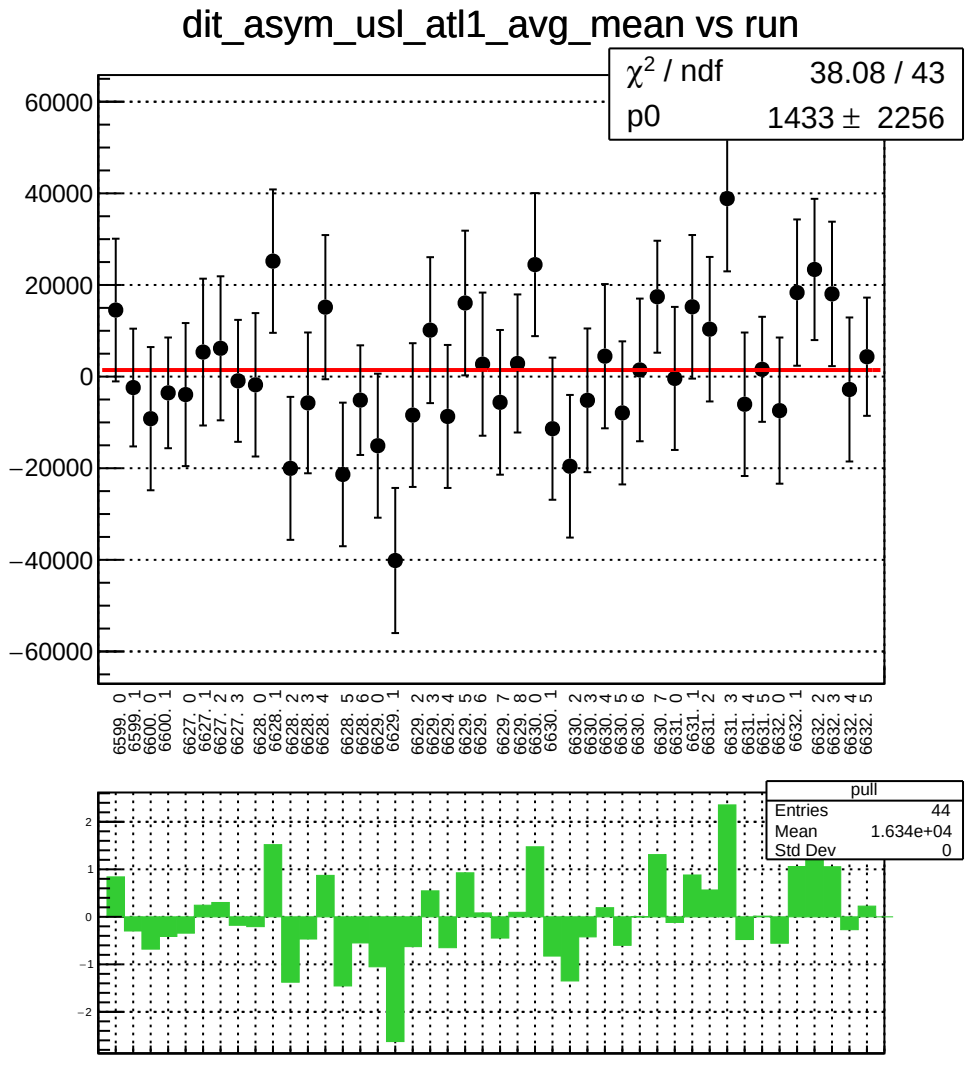
6632. 5


dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 38.08 / 43
p0 1433 ± 2256
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
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6627. 2
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6632. 1
6632. 2
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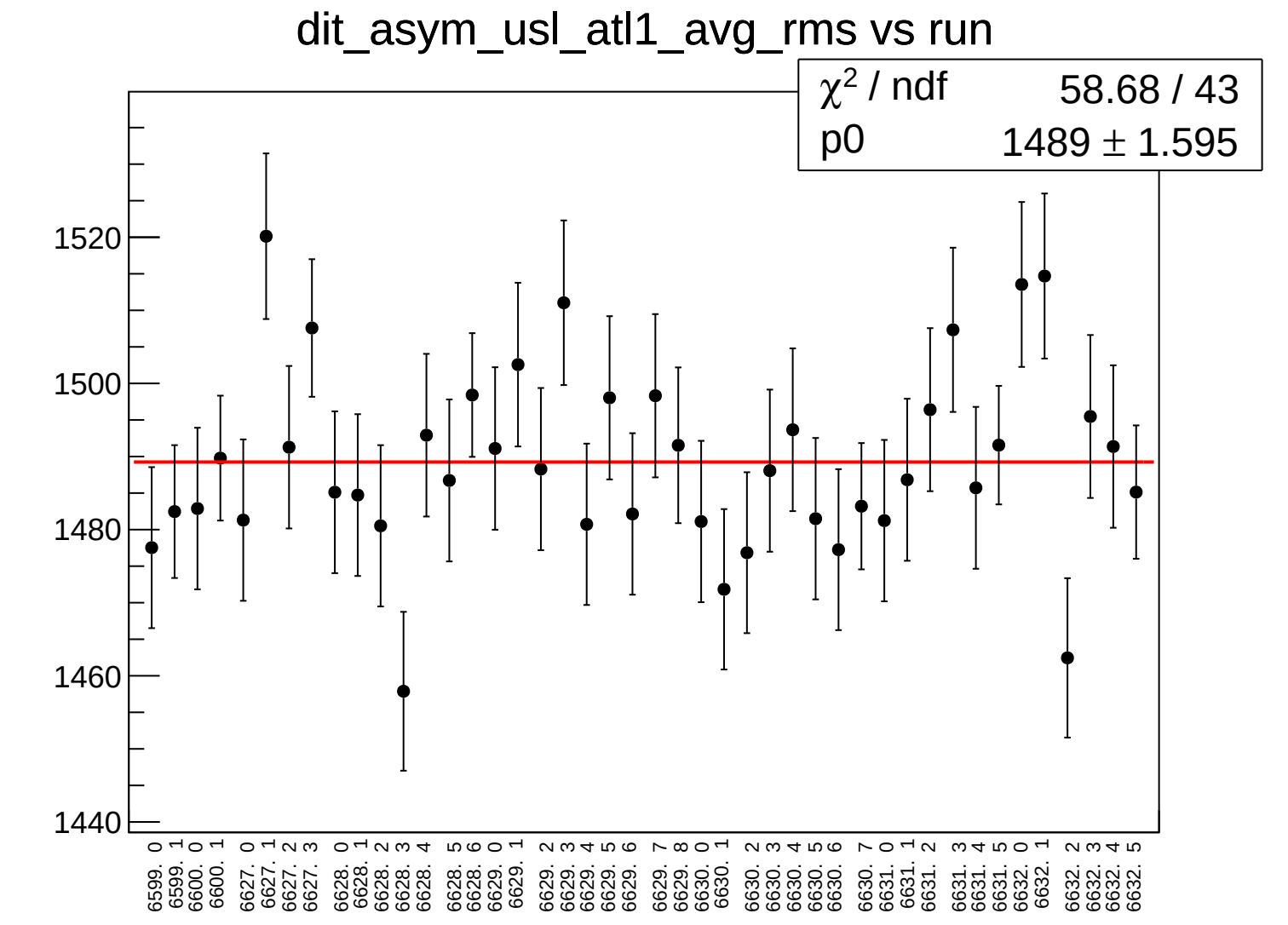
6632. 5
pull
Entries 44
Mean 1.634e+04
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 44
Mean 0.0001978
Std Dev 0.9303
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 58.68 / 43
p0 1489 ± 1.595
1520
1500
1480
1460
1440
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
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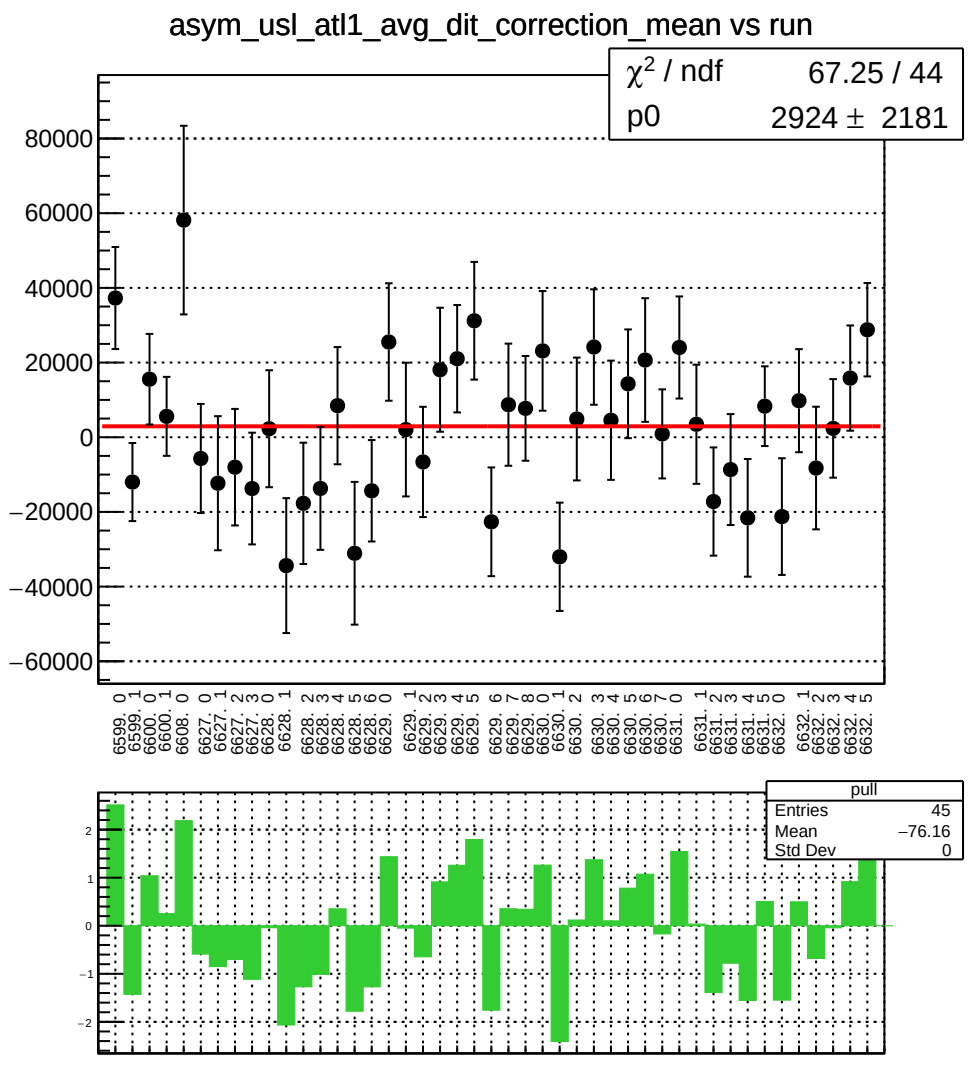
asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 67.25 / 44
p0 2924 ± 2181
80000
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6631. 4
6631. 5
6632. 0
6632. 1
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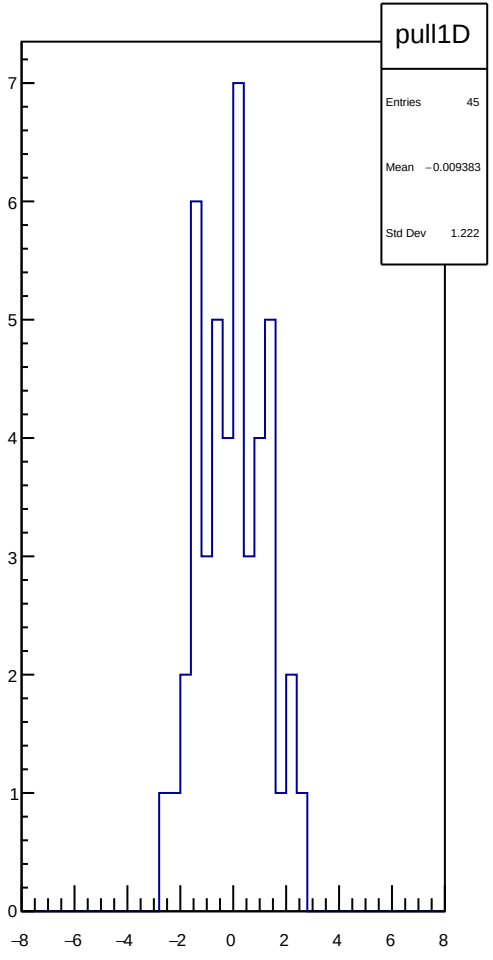
pull
Entries 45
Mean −76.16
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.009383
Std Dev 1.222
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3
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−4
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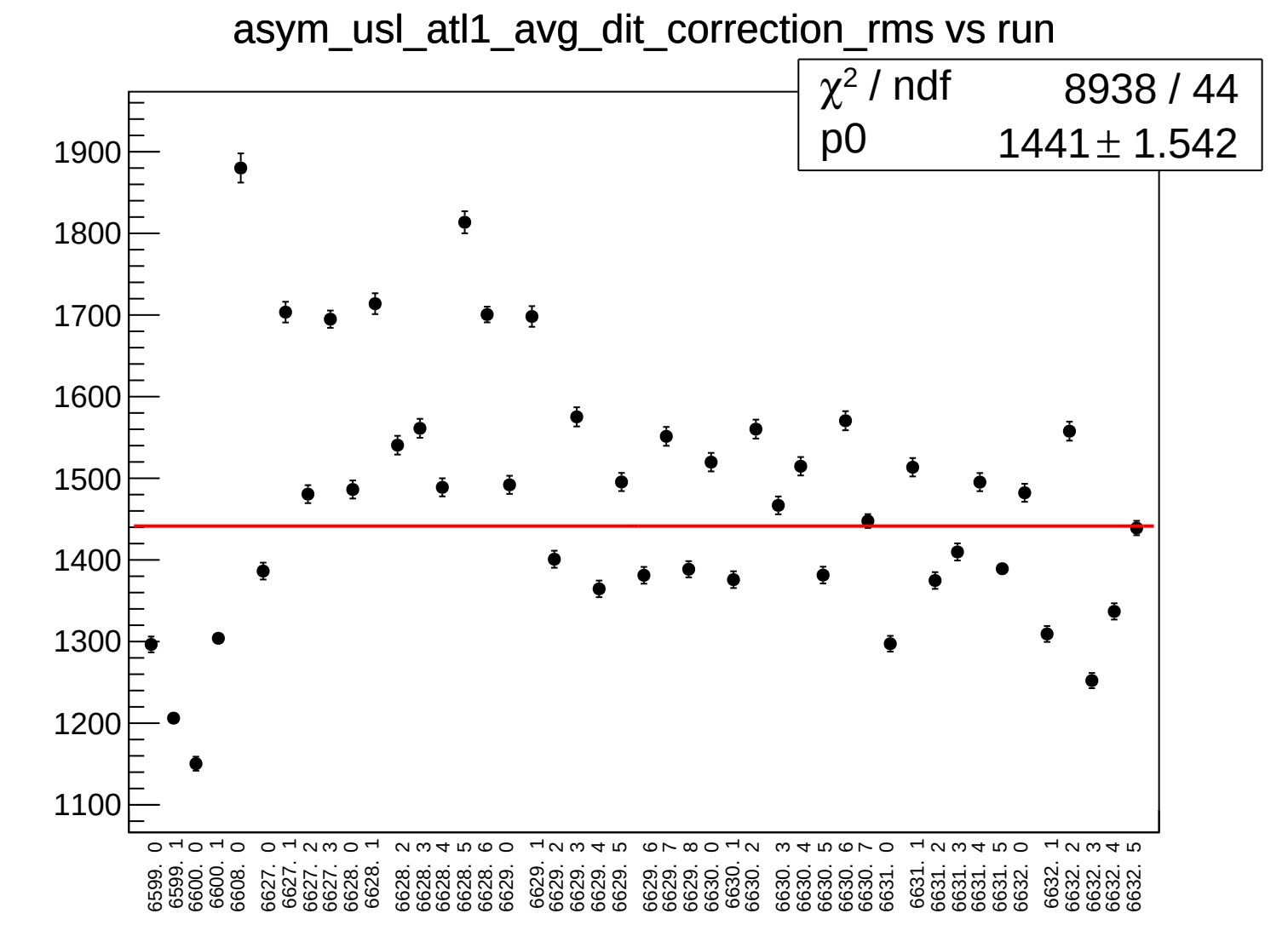
6
8


asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 8938 / 44
p0 1441 ± 1.542
1900
1800
1700
1600
1500
1400
1300
1200
1100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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6627. 1
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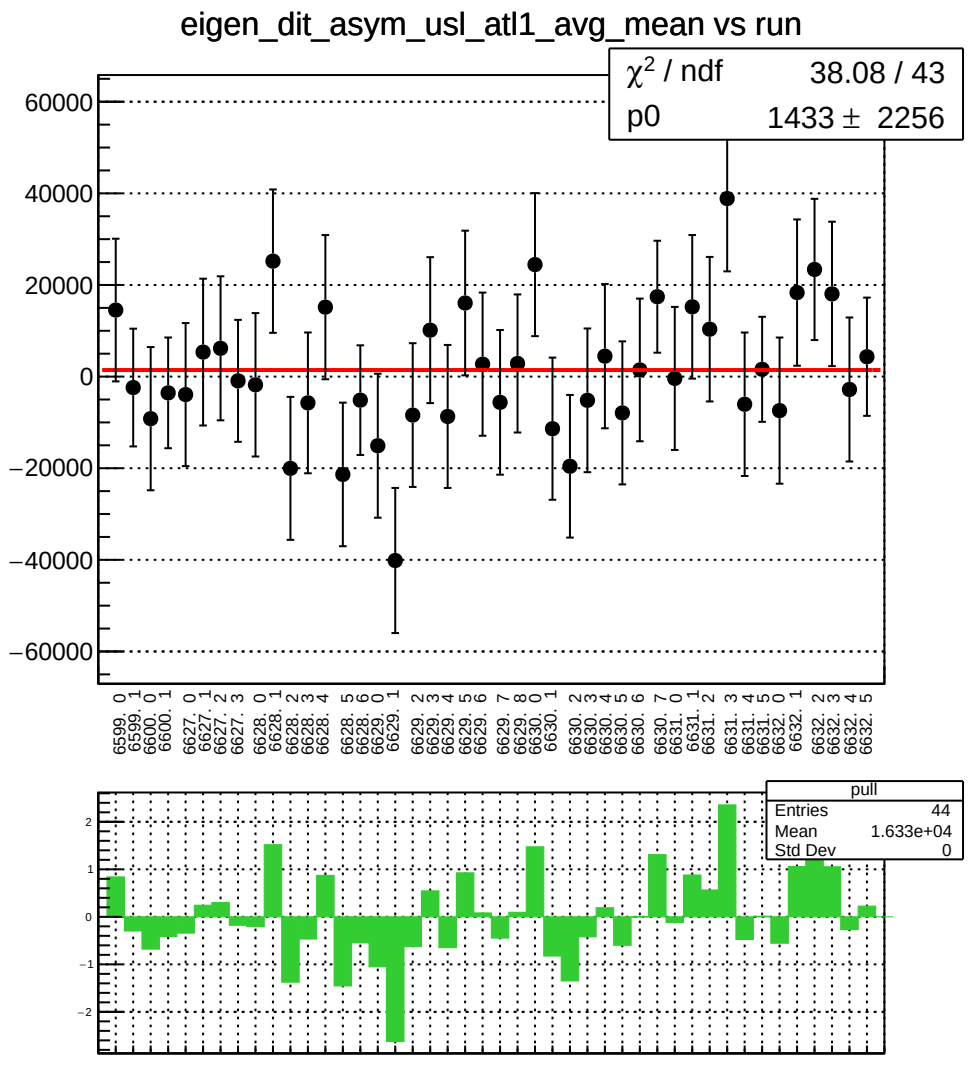
eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 38.08 / 43
p0 1433 ± 2256
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
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6632. 0
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pull
Entries 44
Mean 1.633e+04
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 44
Mean 0.0001978
Std Dev 0.9303
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−4
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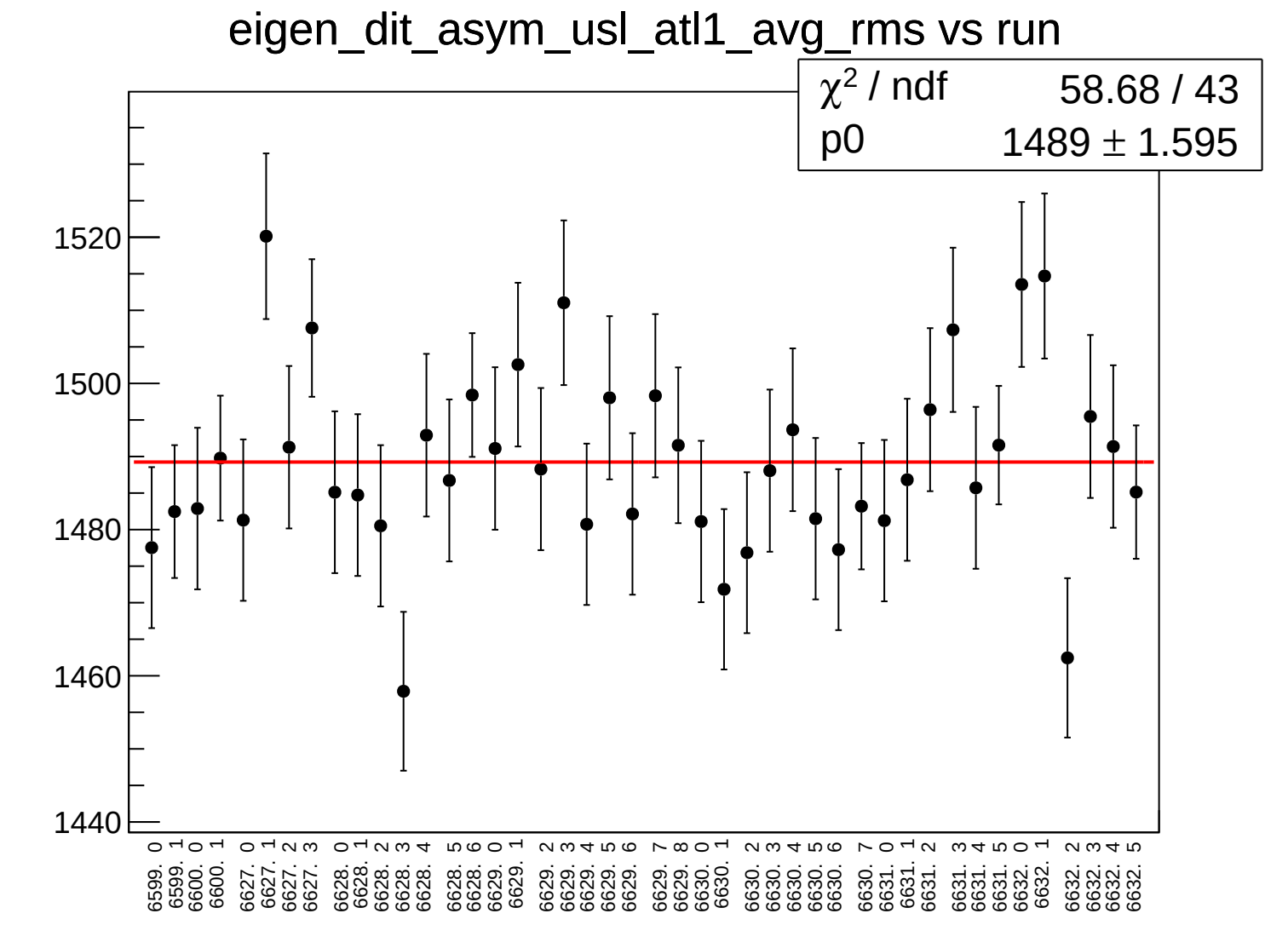
eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 58.68 / 43
p0 1489 ± 1.595
1520
1500
1480
1460
1440
6599. 0
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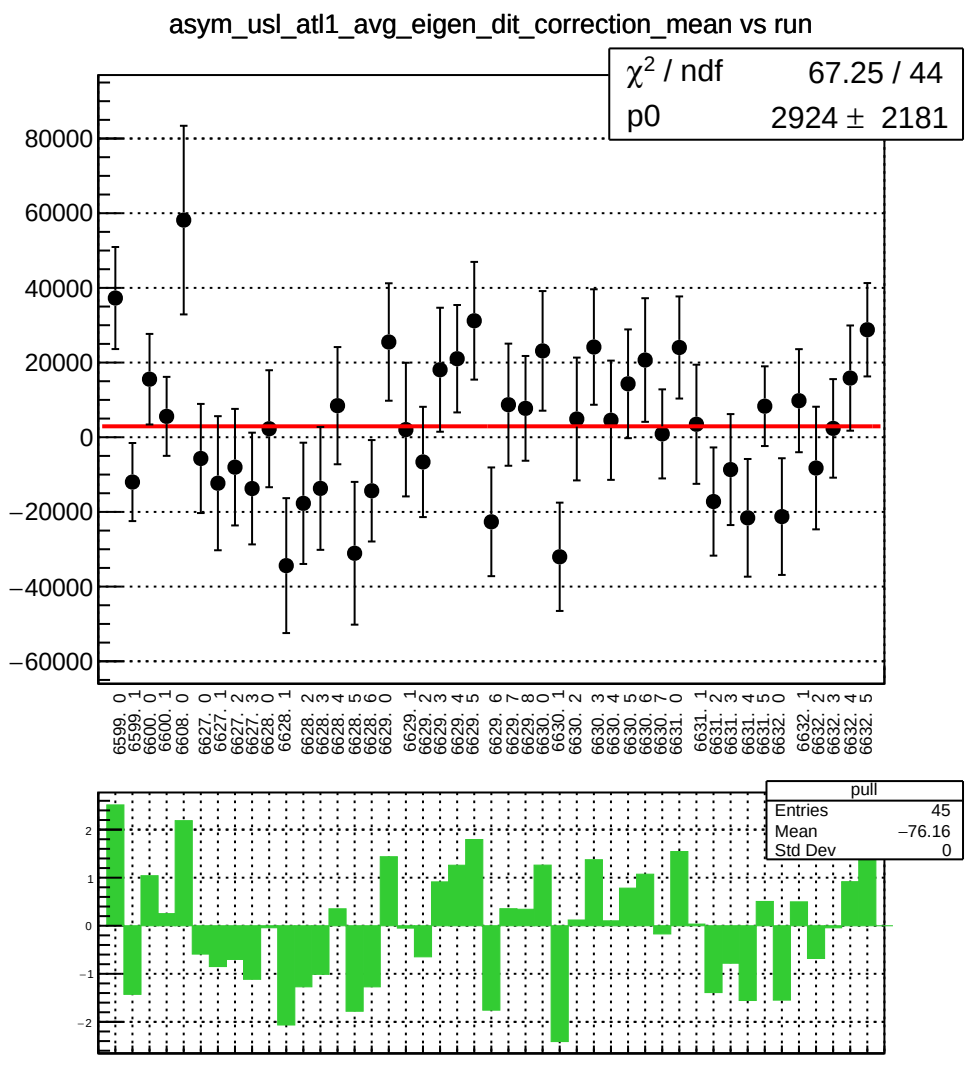
asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 67.25 / 44
p0 2924 ± 2181
80000
60000
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−40000
−60000
6599. 0
6599. 1
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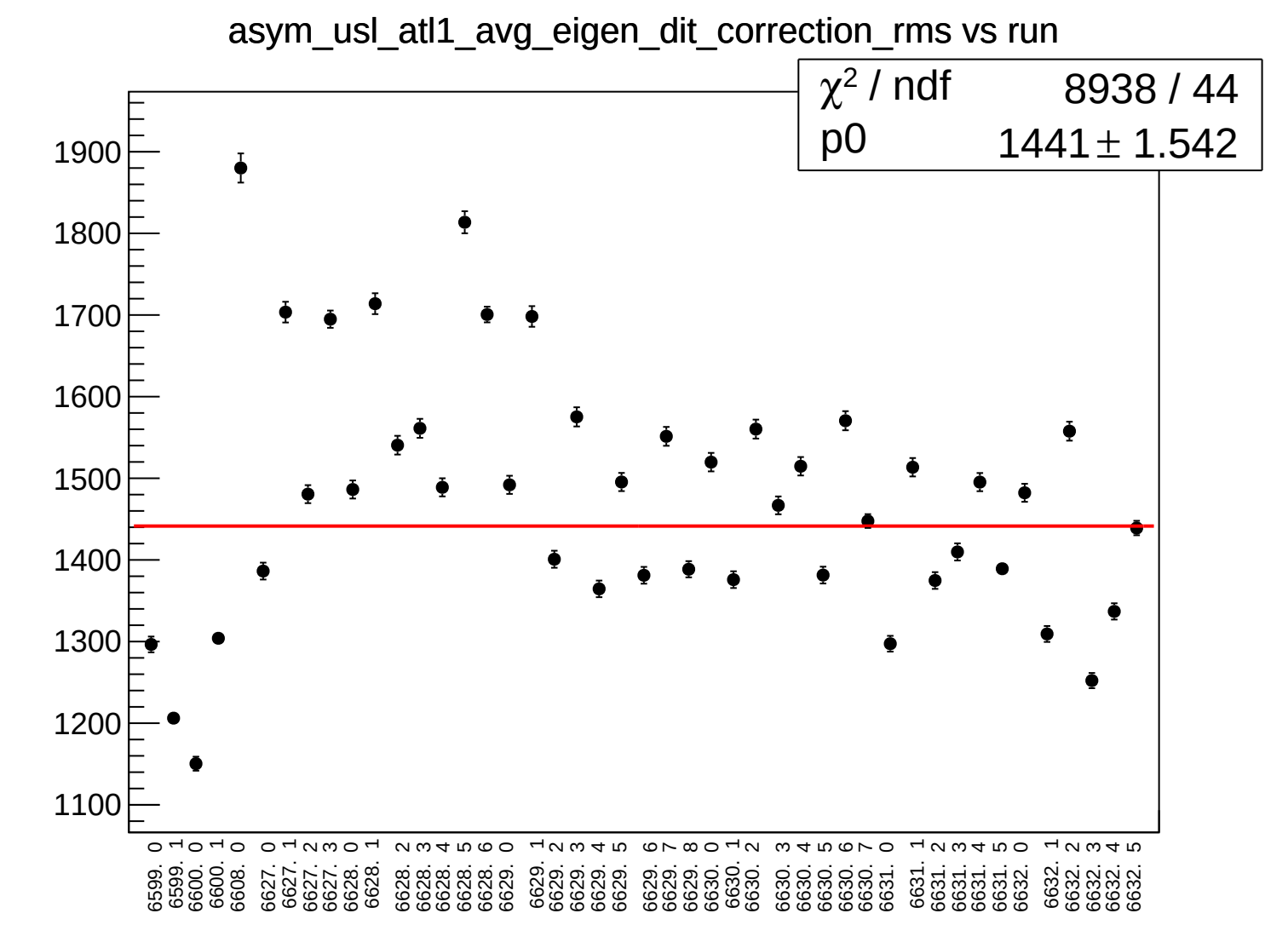
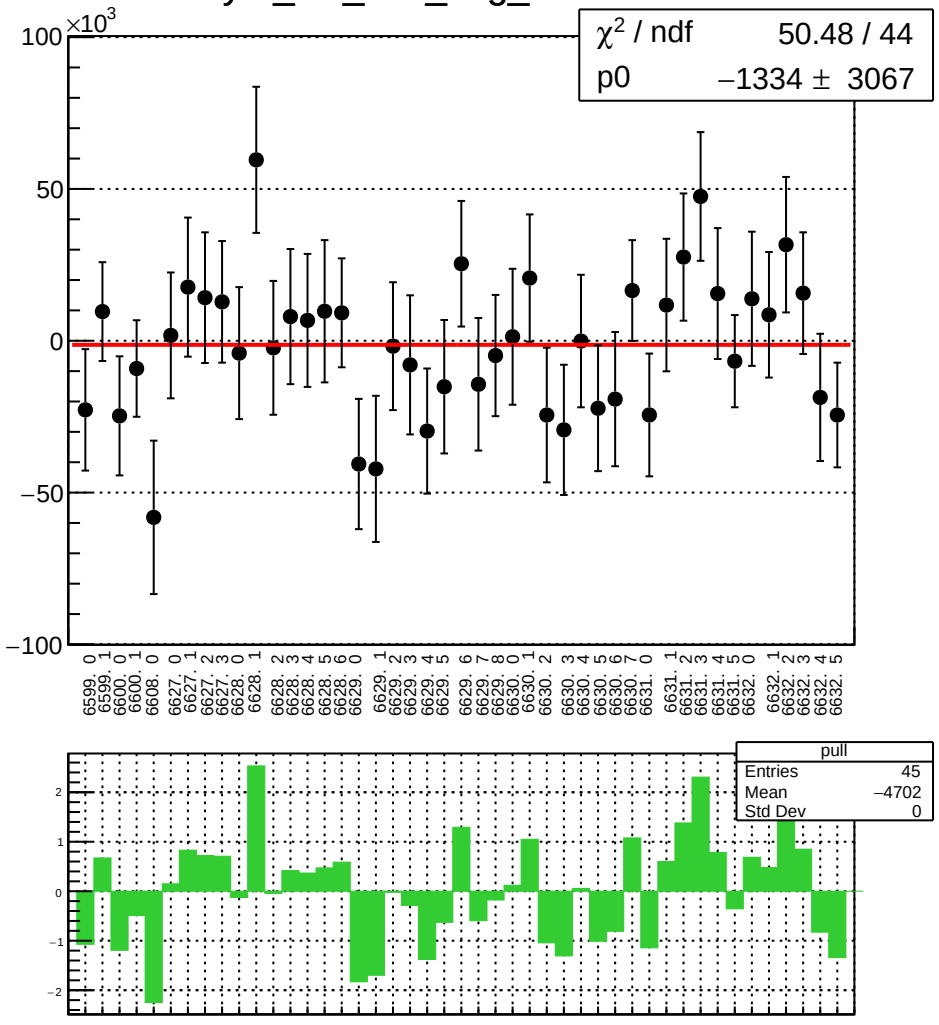
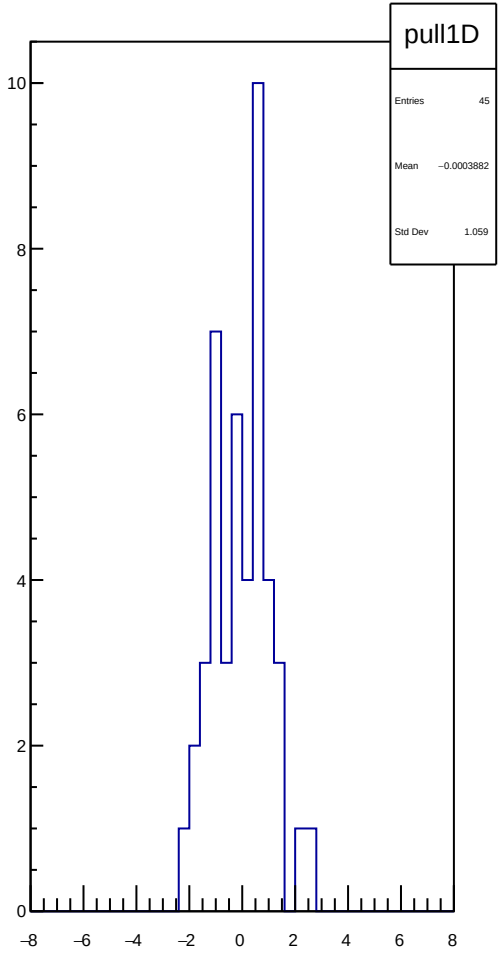
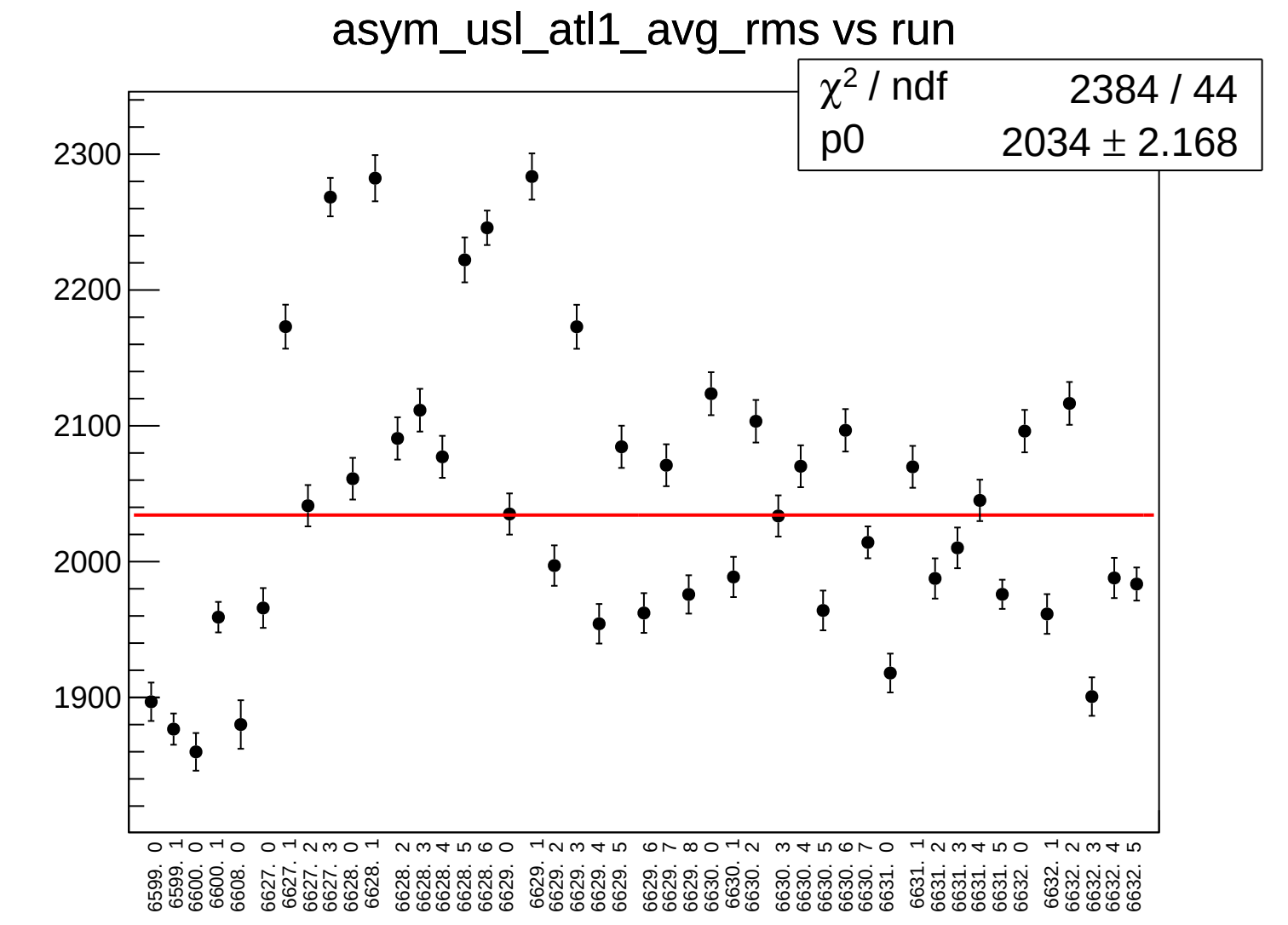
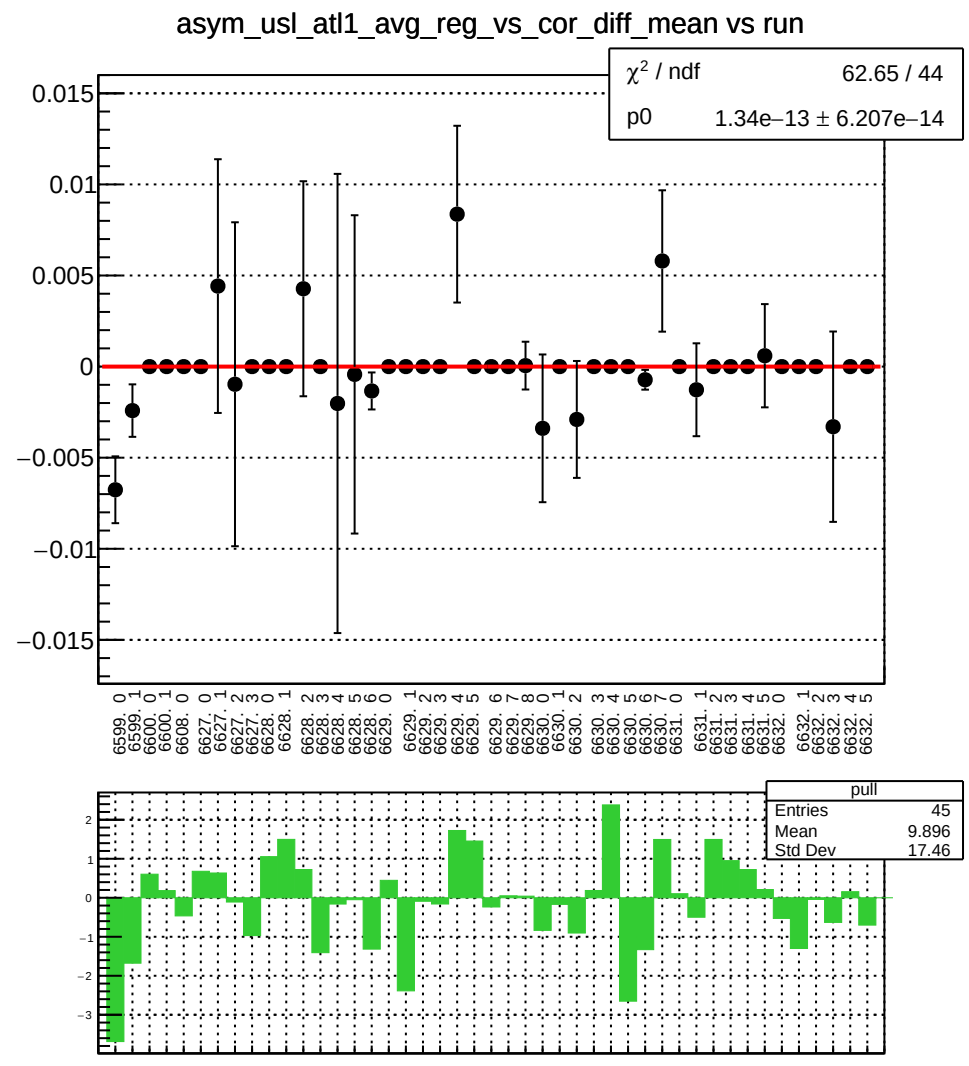
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −76.16
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.009383
Std Dev 1.222
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

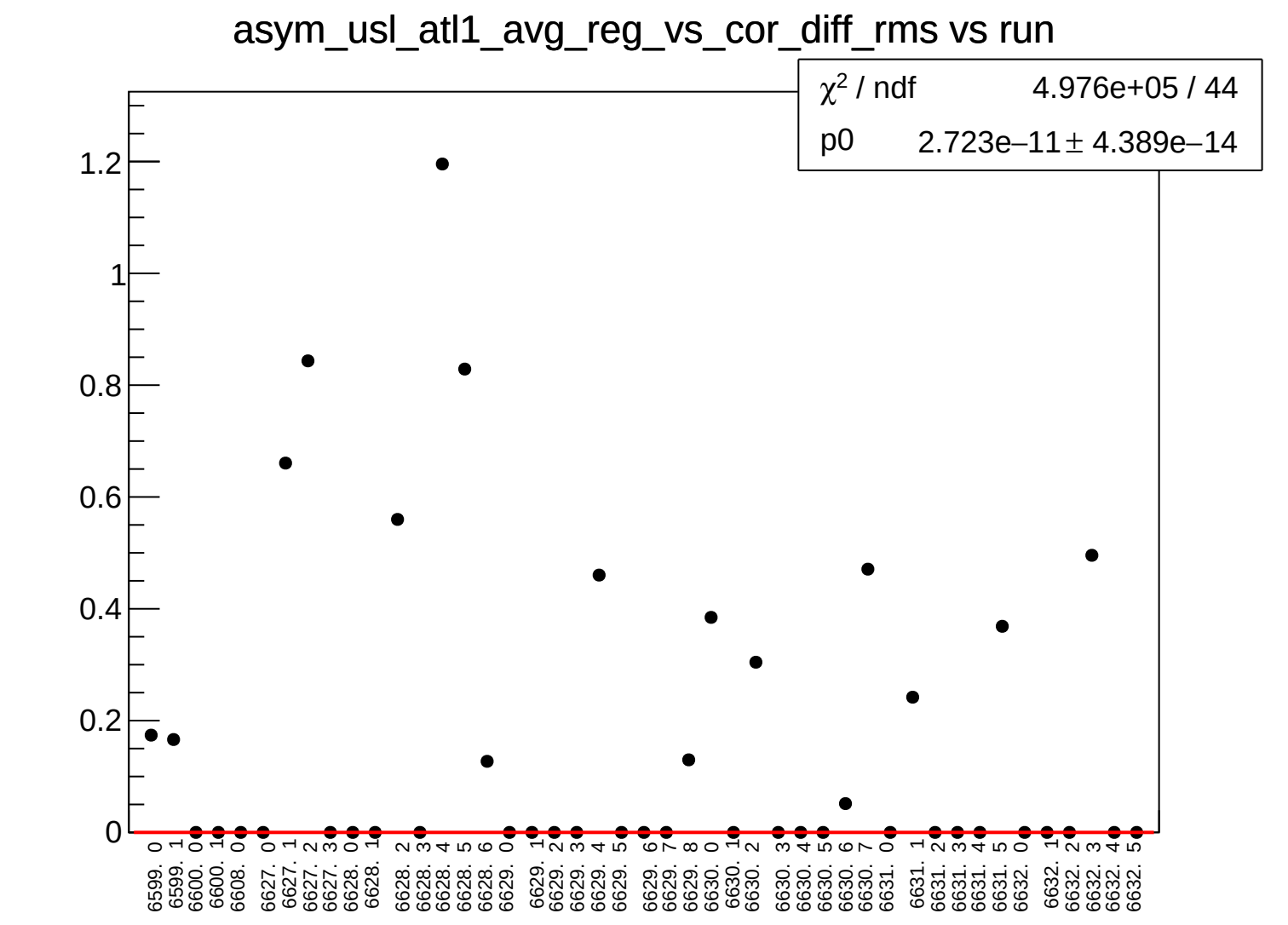

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 8938 / 44
p0 1441 ± 1.542
1900
1800
1700
1600
1500
1400
1300
1200
1100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

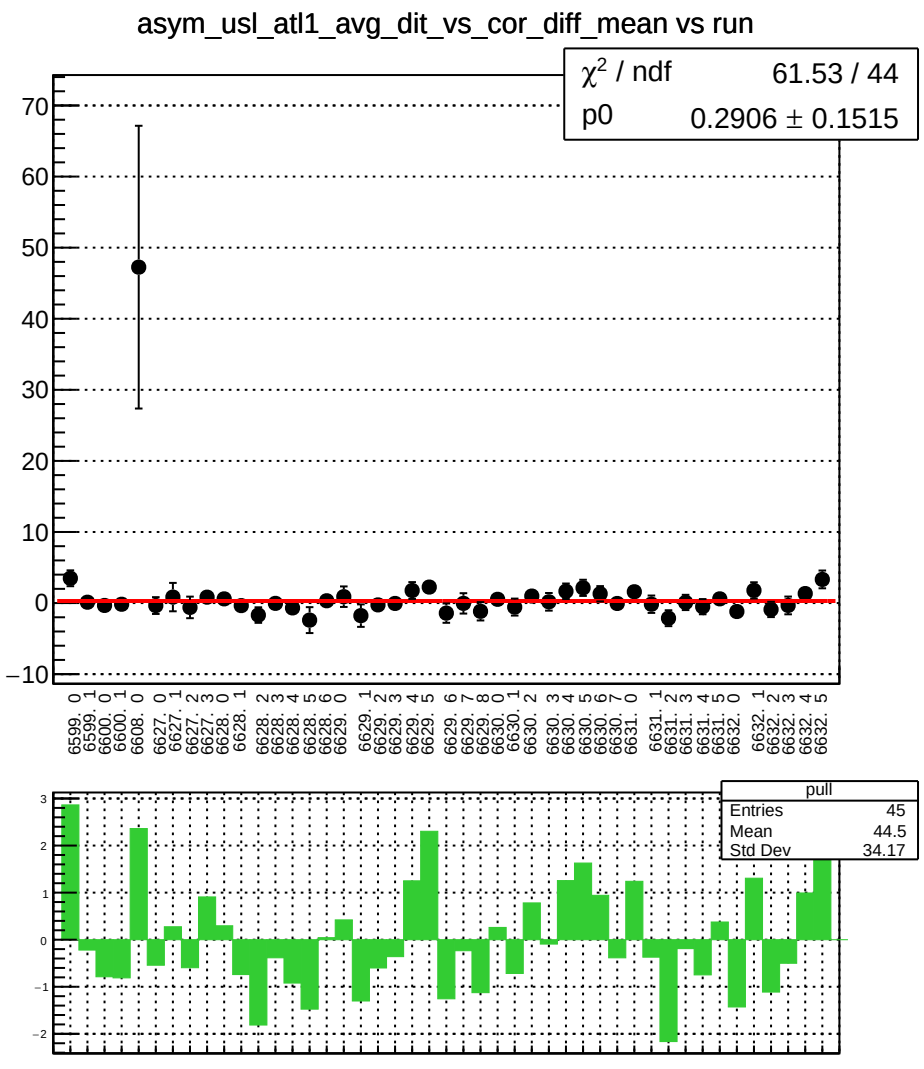

asym_usl_atl1_avg_mean vs run
×10^3
χ² / ndf 50.48 / 44
p0 −1334 ± 3067
100
50
0
−50
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −4702
Std Dev 0
2
1
0
−1
−2

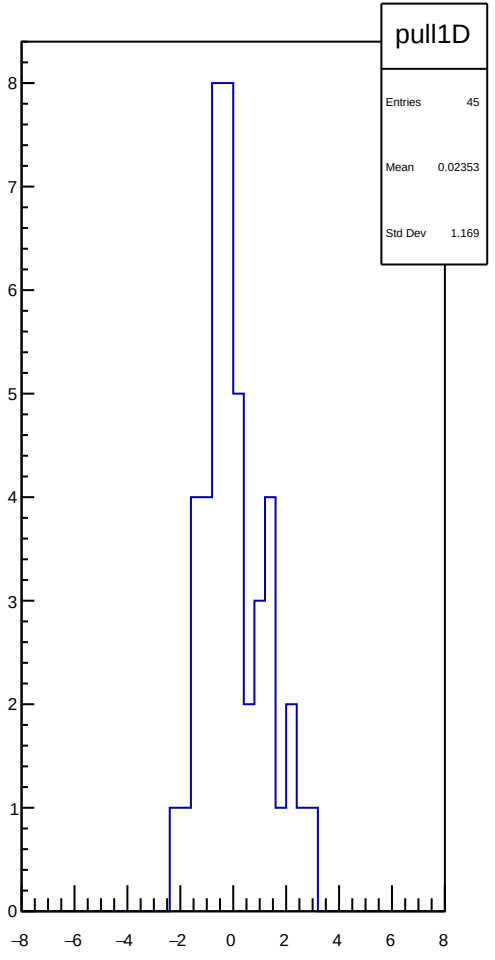

pull1D
Entries 45
Mean −0.0003882
Std Dev 1.059
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

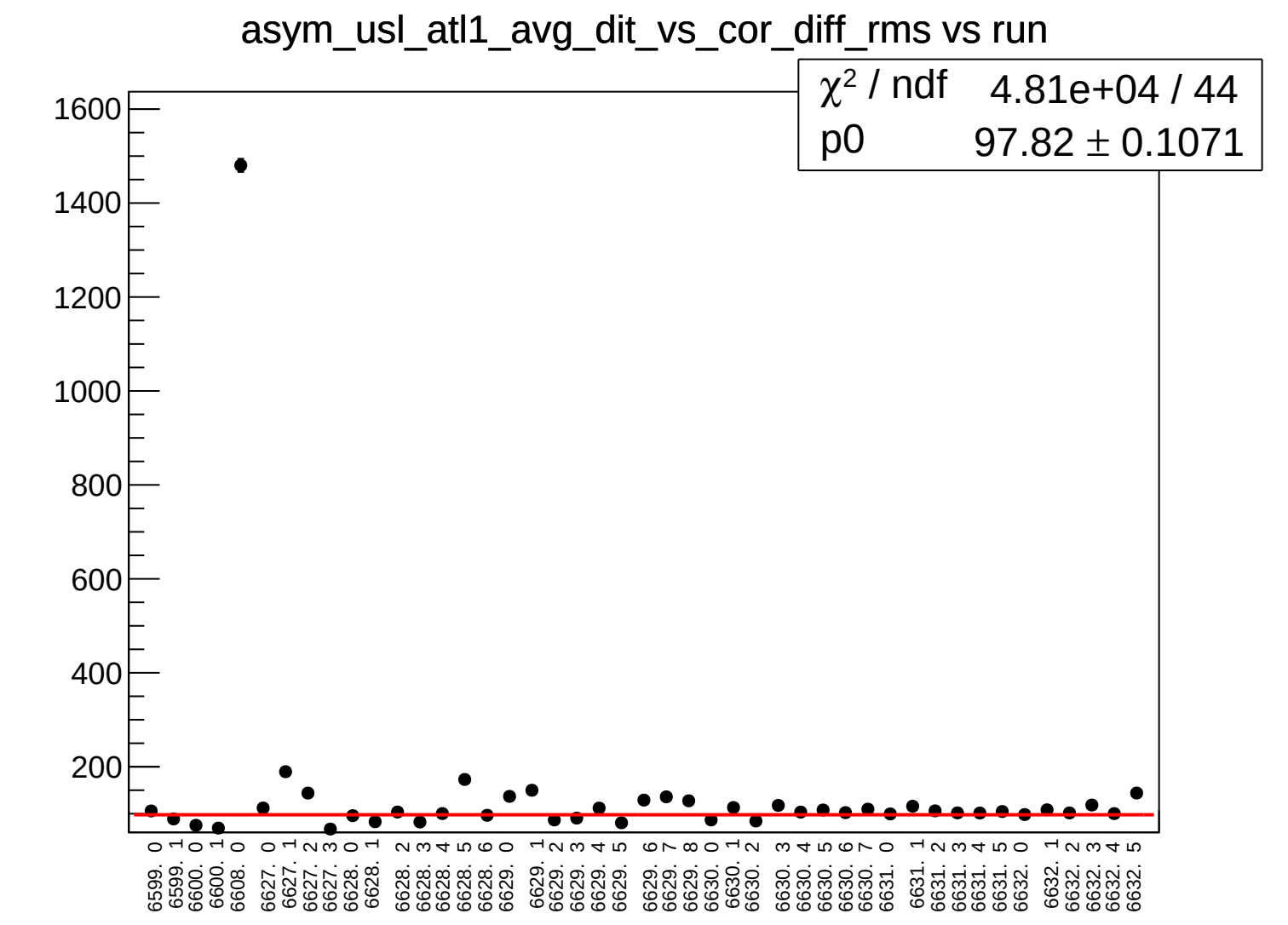

asym_usl_atl1_avg_rms vs run
χ² / ndf 2384 / 44
p0 2034 ± 2.168
2300
2200
2100
2000
1900
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

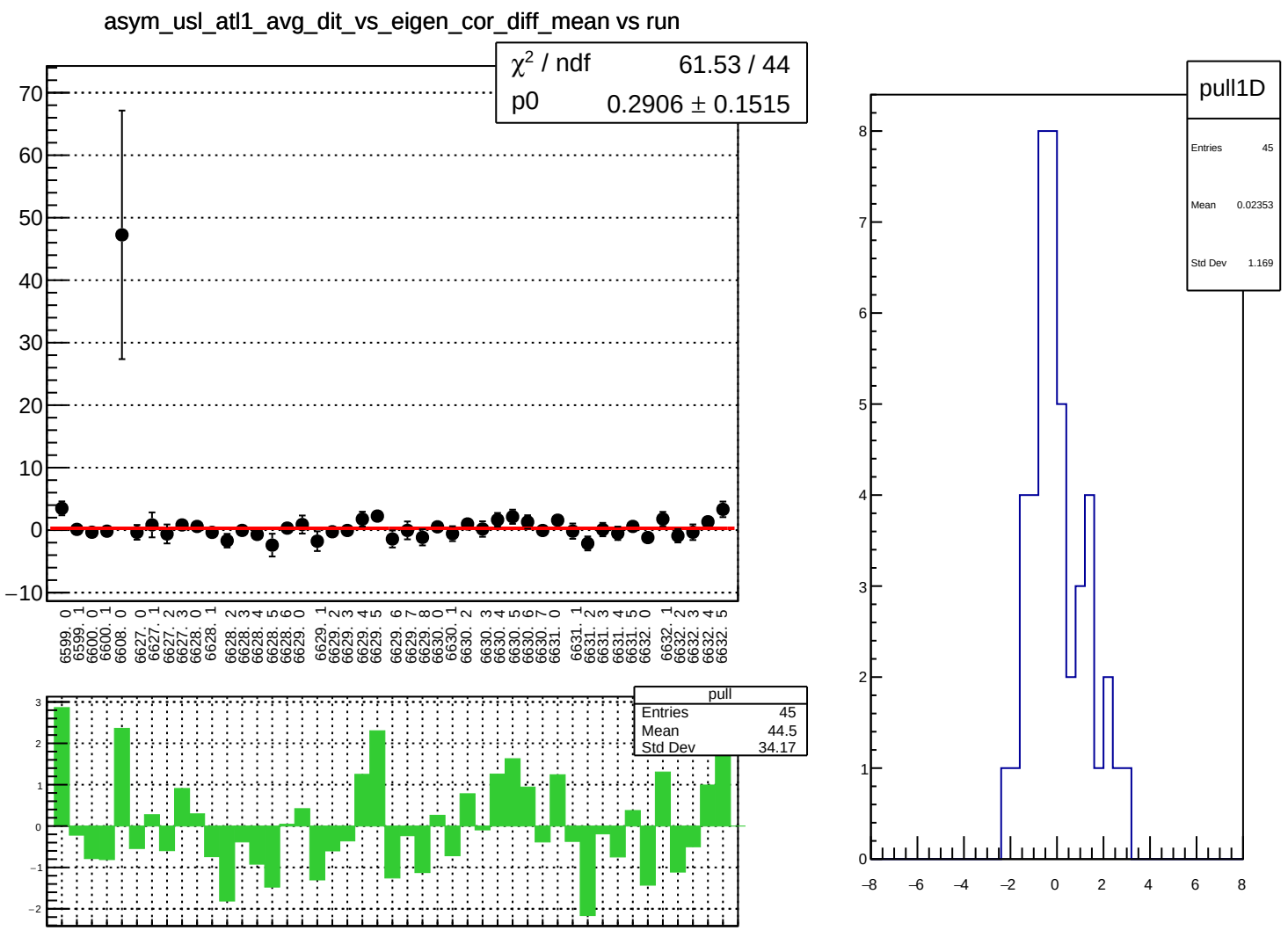

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 62.65 / 44
p0 1.34e−13 ± 6.207e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 9.896
Std Dev 17.46
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.1224
Std Dev 1.174
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

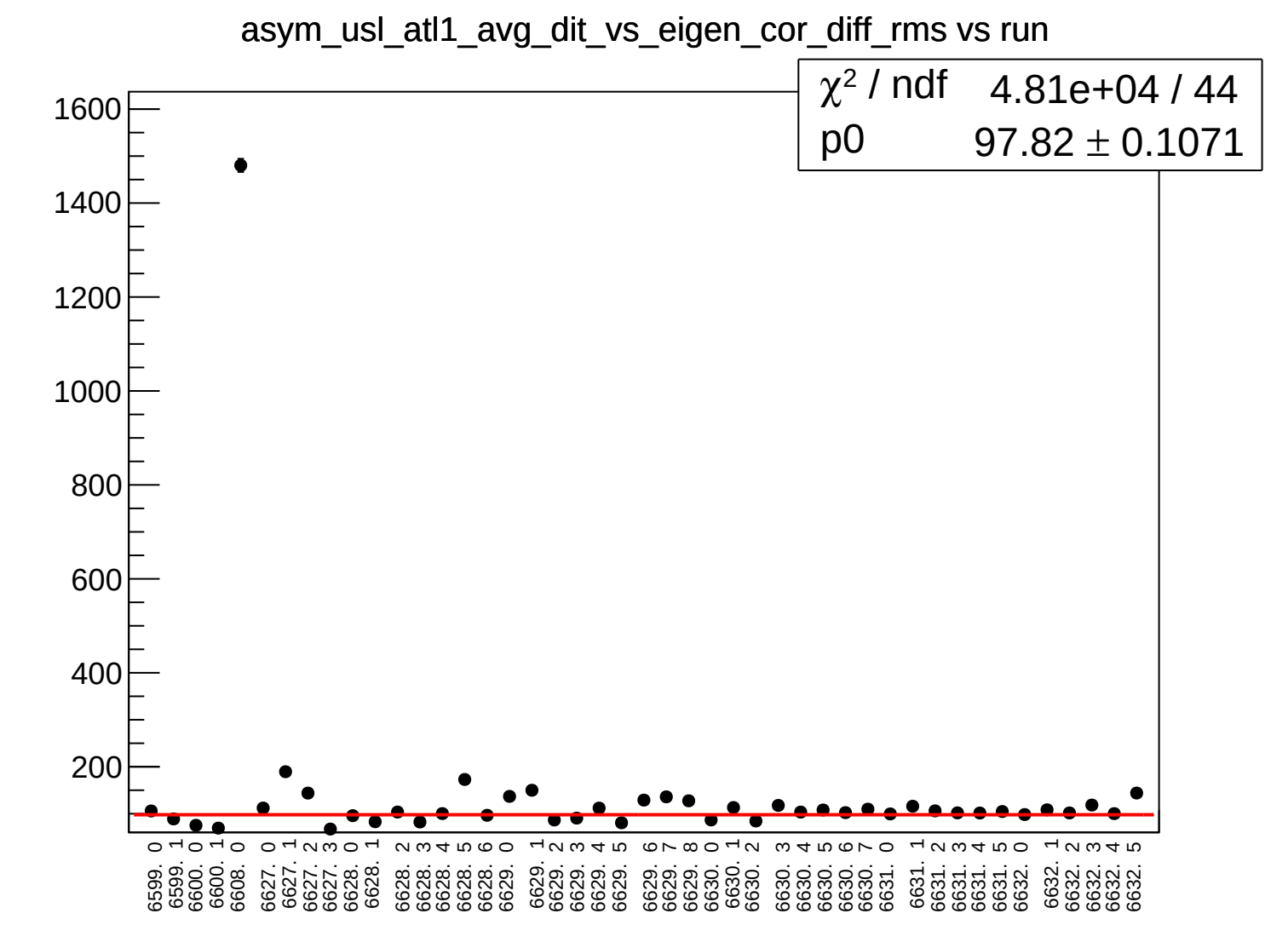

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.976e+05 / 44
p0 2.723e−11 ± 4.389e−14
1.2
1
0.8
0.6
0.4
0.2
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

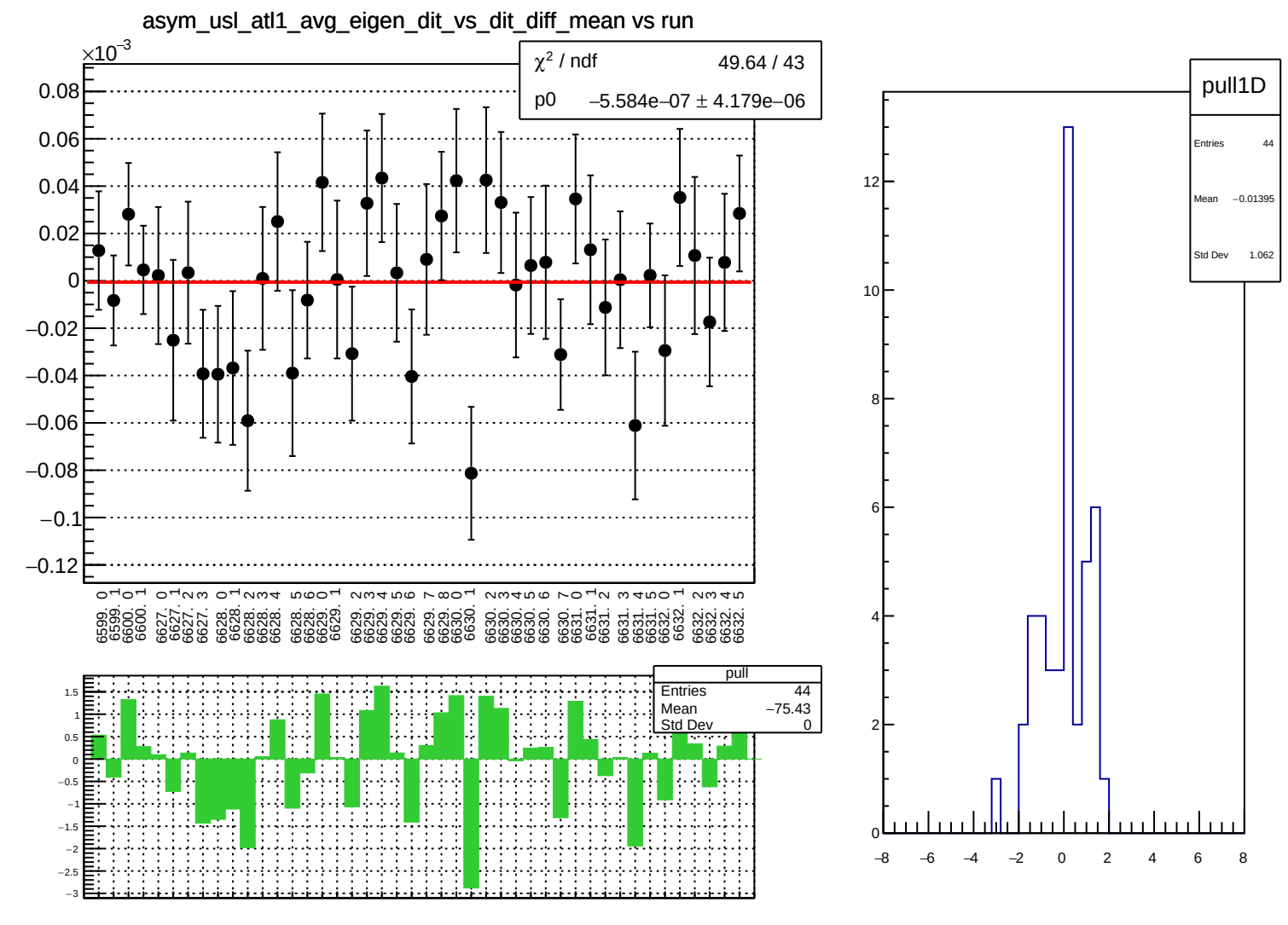

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 61.53 / 44
p0 0.2906 ± 0.1515
pull
Entries 45
Mean 44.5
Std Dev 34.17

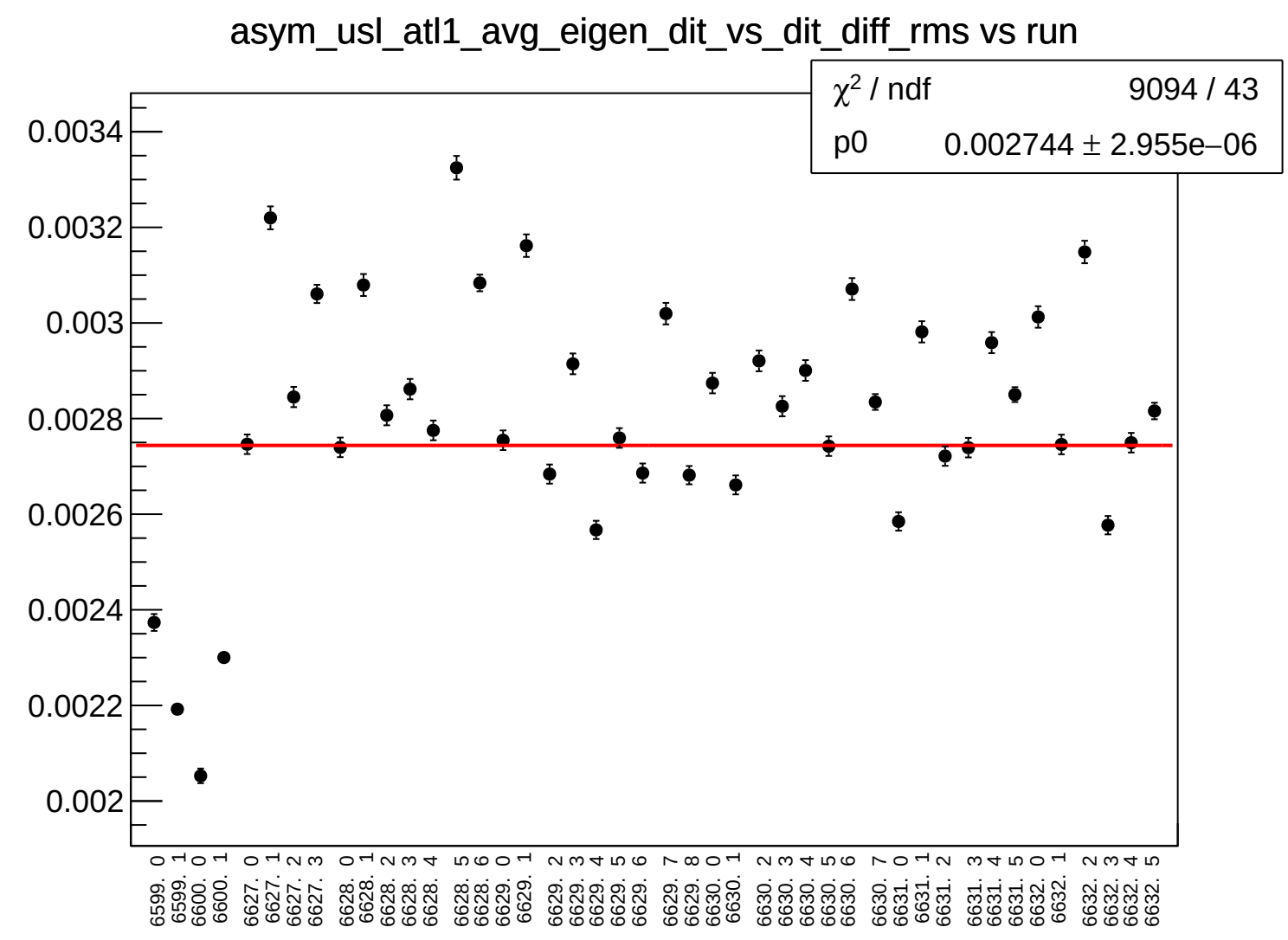

pull1D
Entries 45
Mean 0.02353
Std Dev 1.169

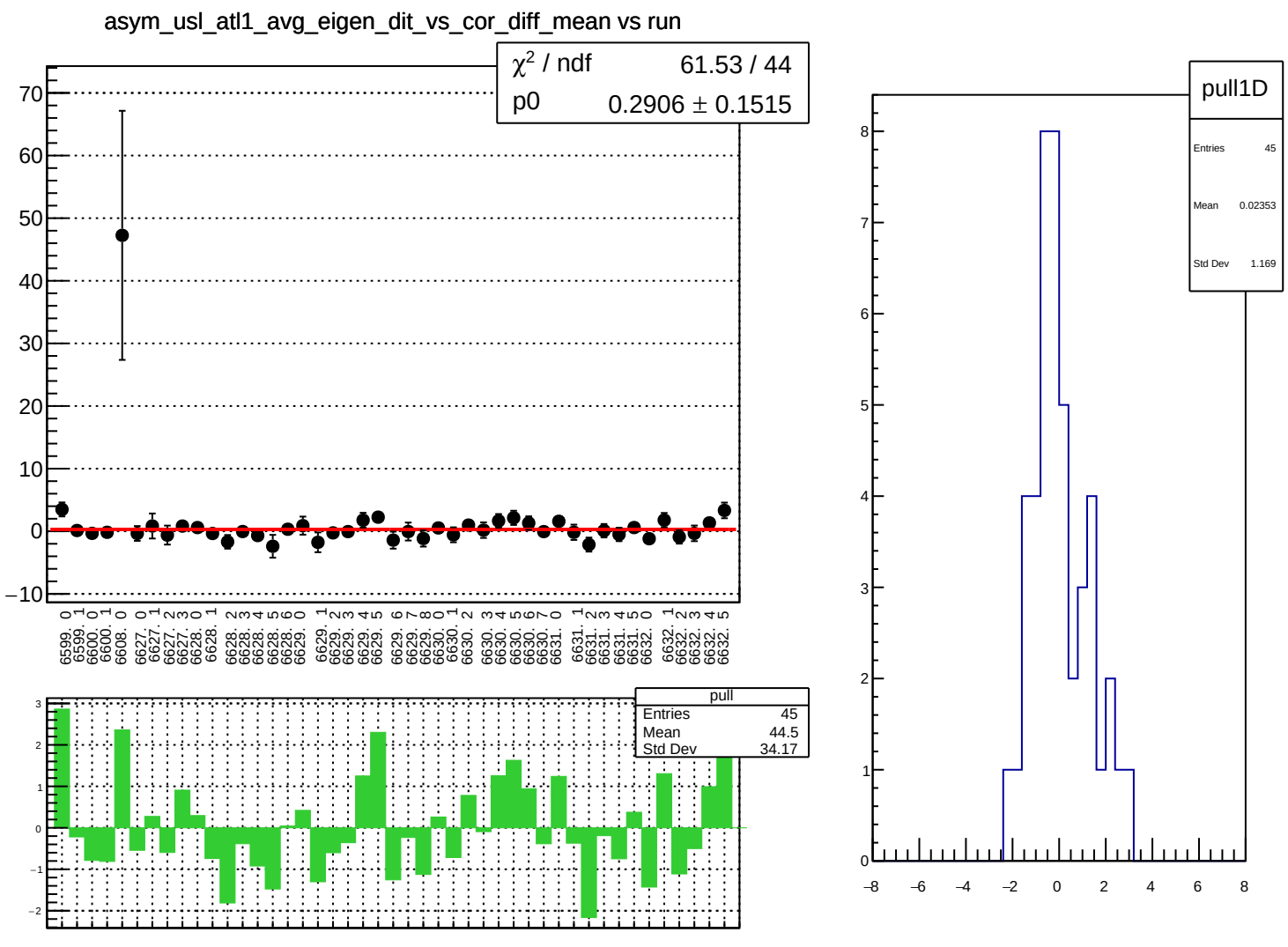

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.81e+04 / 44
p0 97.82 ± 0.1071
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

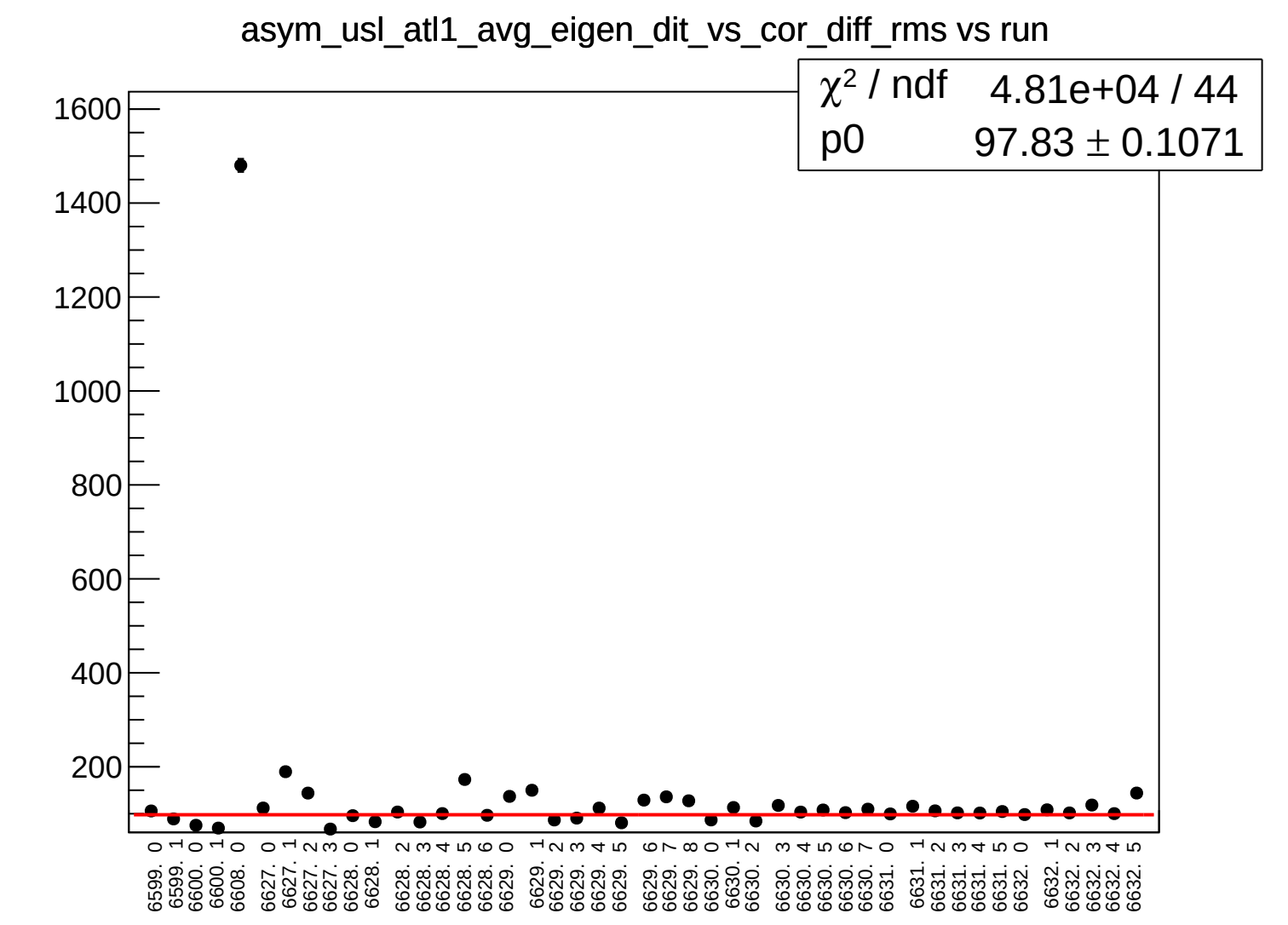

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.53 / 44
p0 0.2906 ± 0.1515
pull
Entries 45
Mean 44.5
Std Dev 34.17
pull1D
Entries 45
Mean 0.02353
Std Dev 1.169

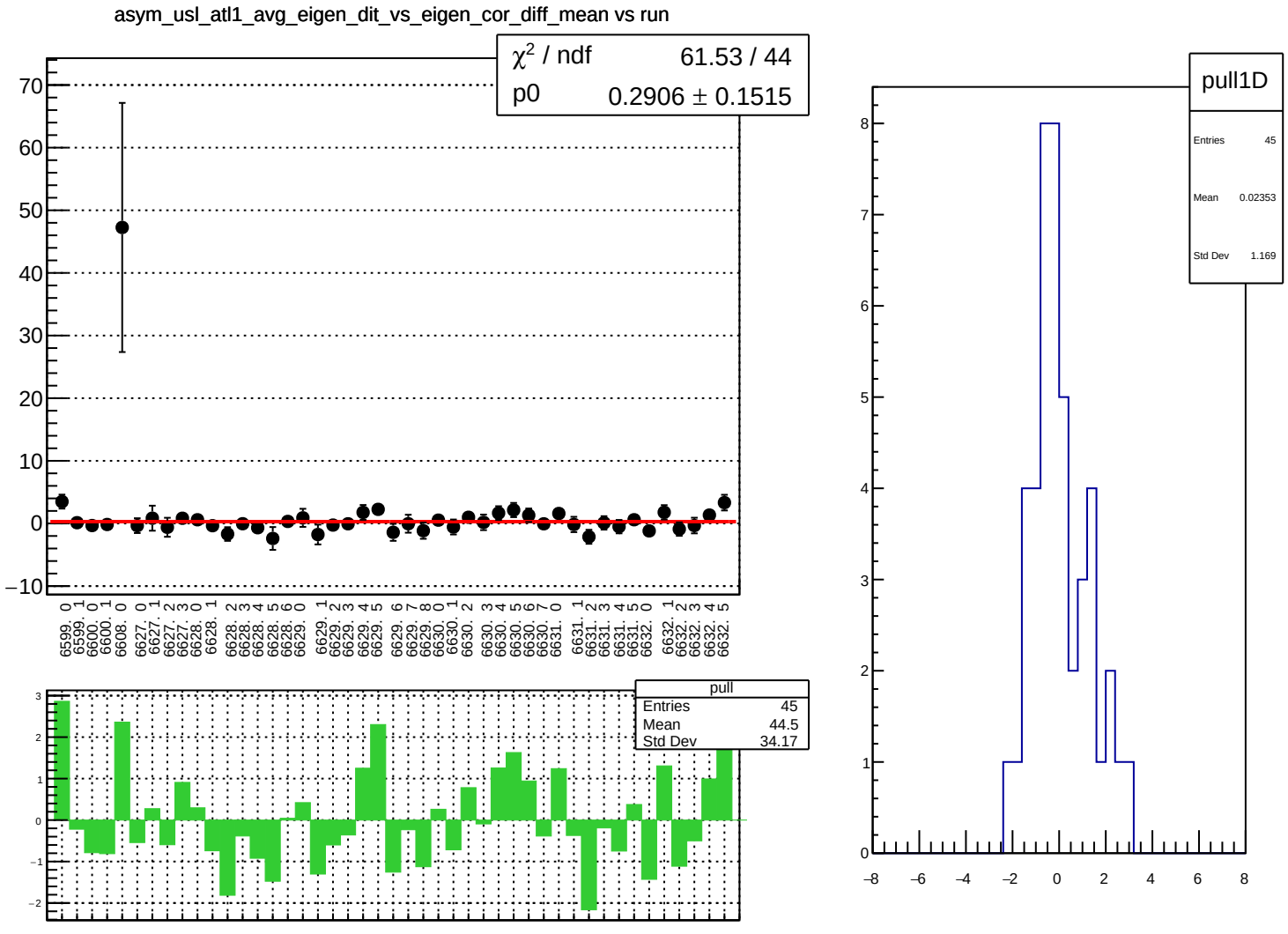

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.81e+04 / 44
p0 97.82 ± 0.1071
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

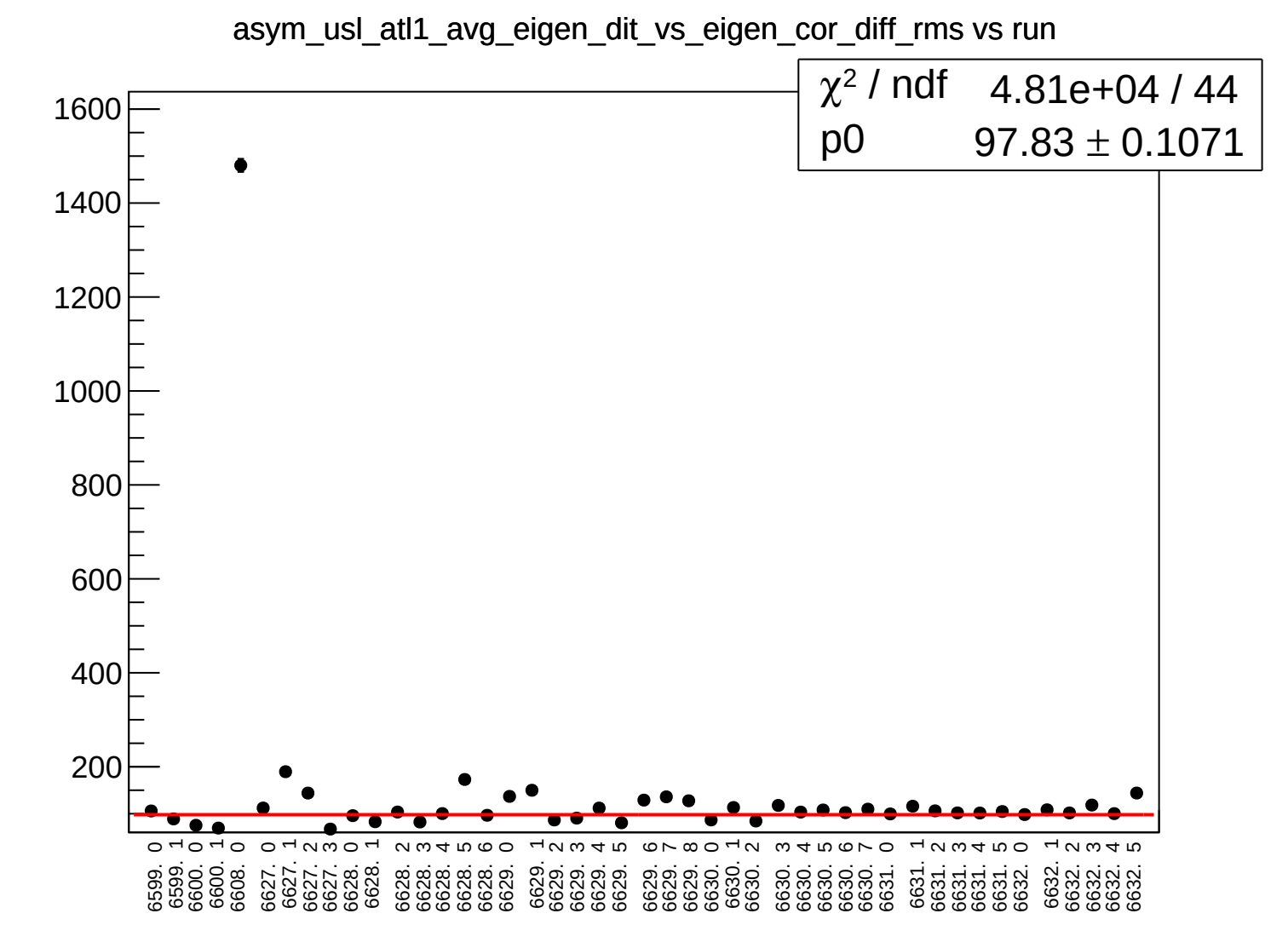

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 49.64 / 43
p0 −5.584e−07 ± 4.179e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 44
Mean −75.43
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 44
Mean −0.01395
Std Dev 1.062
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

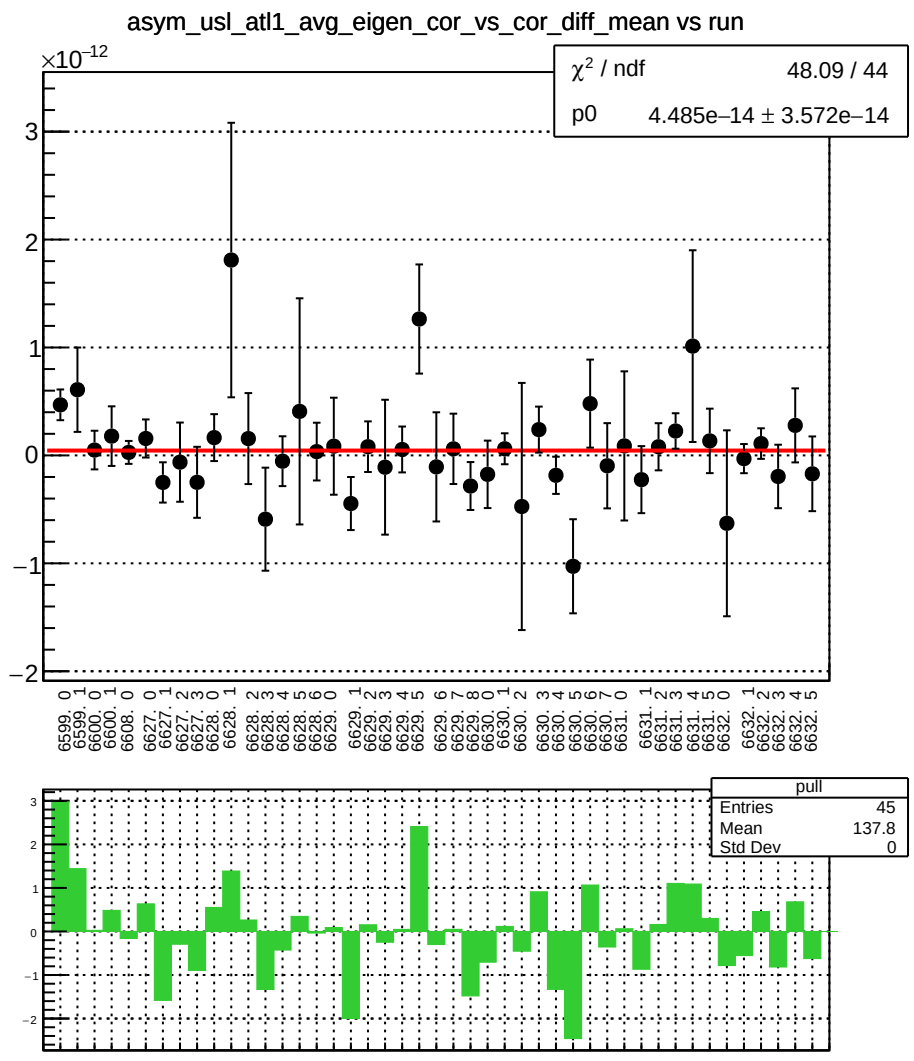

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9094 / 43
p0 0.002744 ± 2.955e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

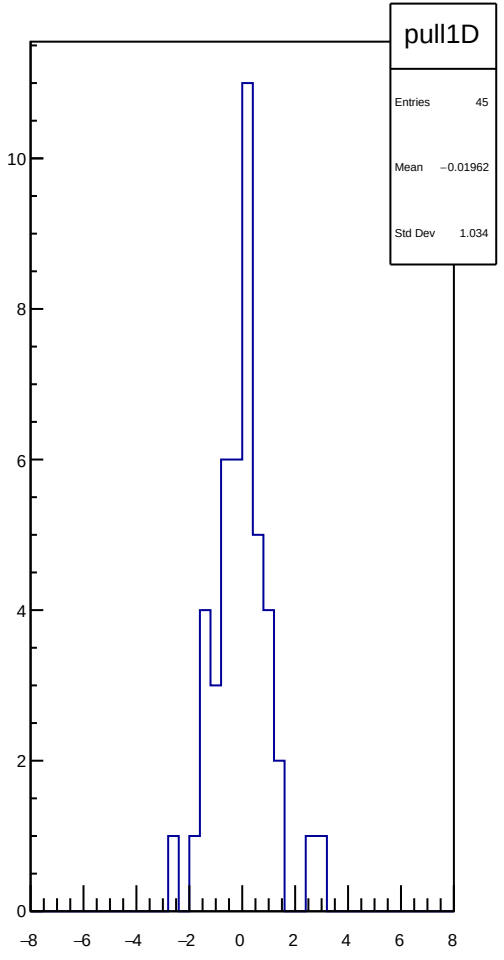

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 61.53 / 44
p0 0.2906 ± 0.1515
pull
Entries 45
Mean 44.5
Std Dev 34.17
pull1D
Entries 45
Mean 0.02353
Std Dev 1.169

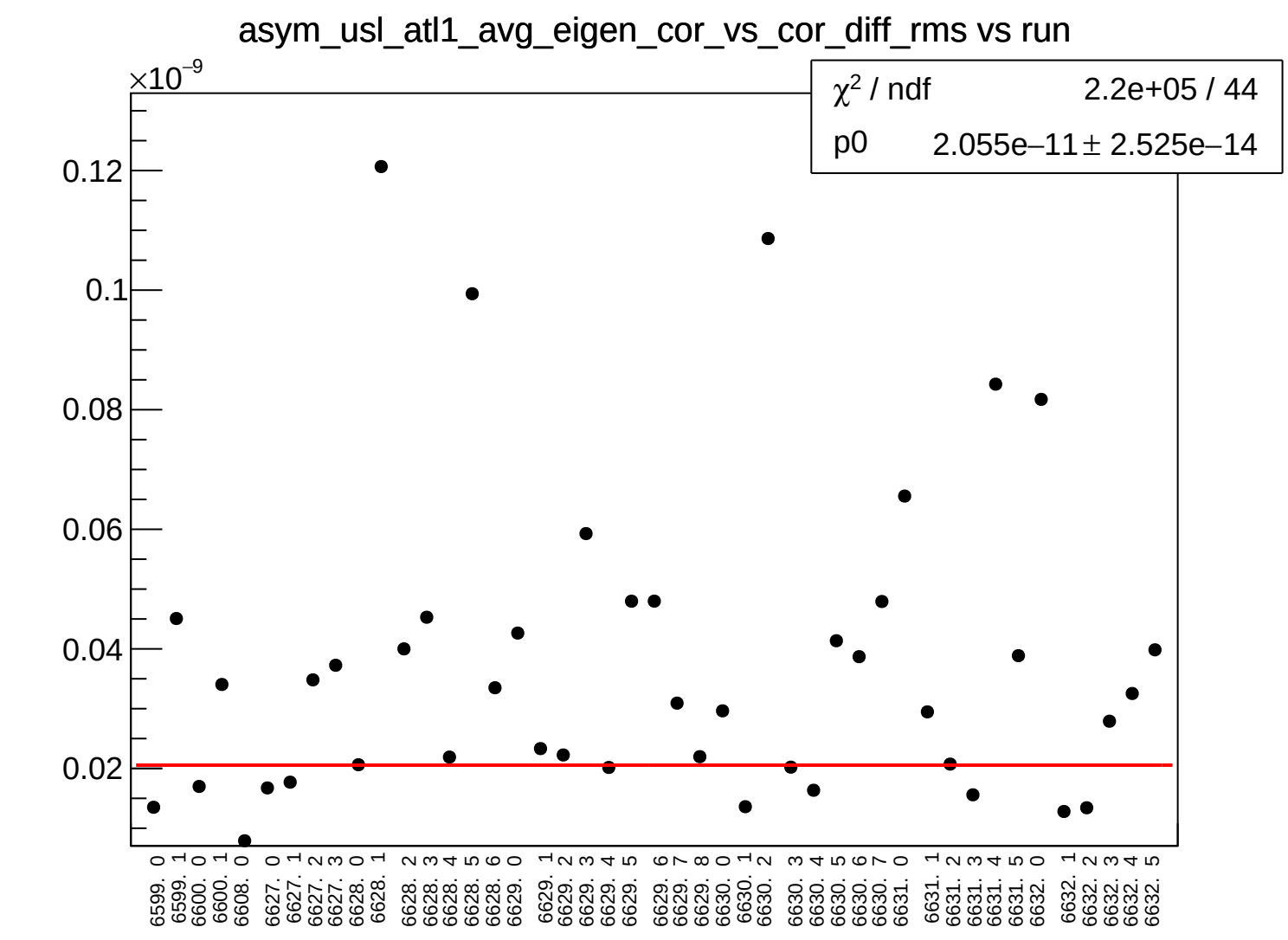

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.81e+04 / 44
p0 97.83 ± 0.1071
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.53 / 44
p0 0.2906 ± 0.1515
70
60
50
40
30
20
10
0
−10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 44.5
Std Dev 34.17
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.02353
Std Dev 1.169
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 4.81e+04 / 44
p0 97.83 ± 0.1071
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 48.09 / 44
p0 4.485e−14 ± 3.572e−14
pull
Entries 45
Mean 137.8
Std Dev 0


pull1D
Entries 45
Mean −0.01962
Std Dev 1.034


asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.2e+05 / 44
p0 2.055e−11 ± 2.525e−14
0.12
0.1
0.08
0.06
0.04
0.02
6599. 0
6599. 1
6600. 0
6600. 1
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6627. 2
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6630. 2
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6630. 6
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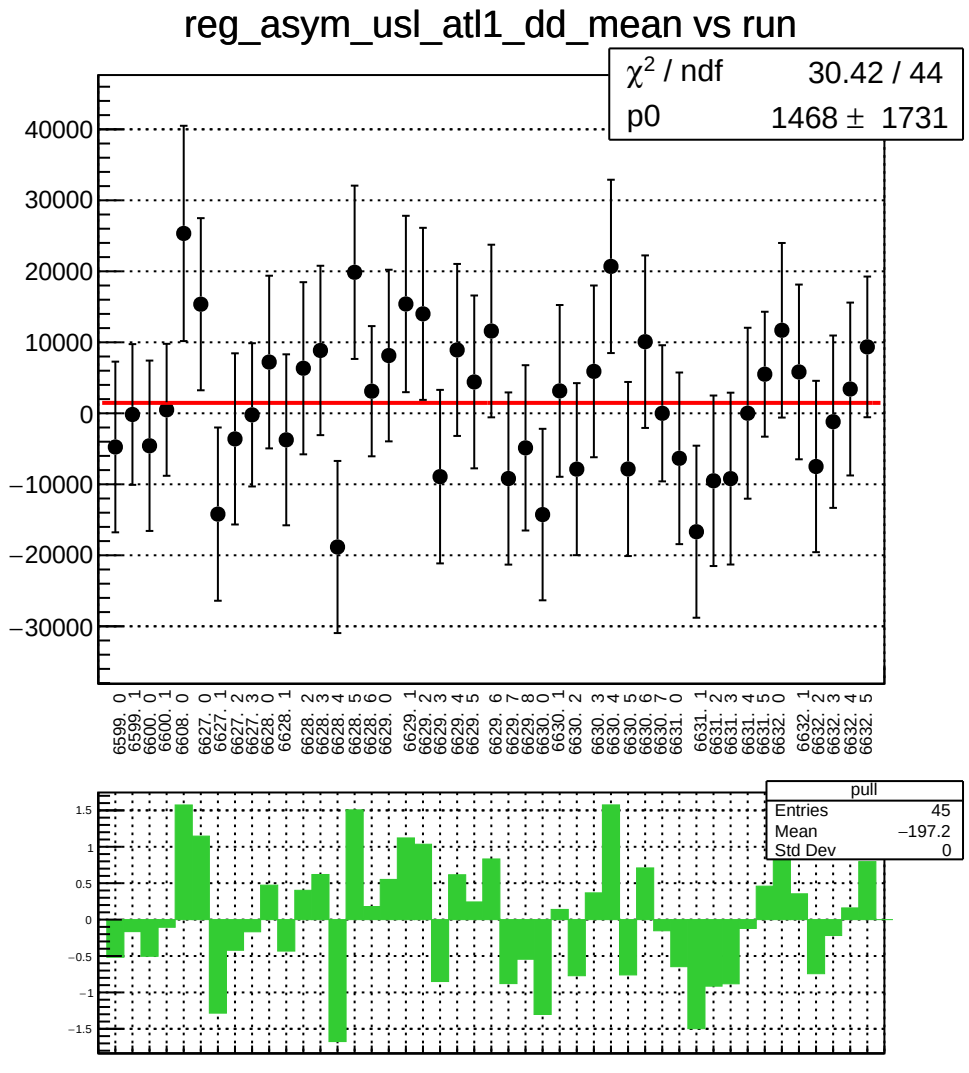
6632. 5


reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 30.42 / 44
p0 1468 ± 1731
40000
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6628. 6
6629. 0
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6630. 0
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6630. 2
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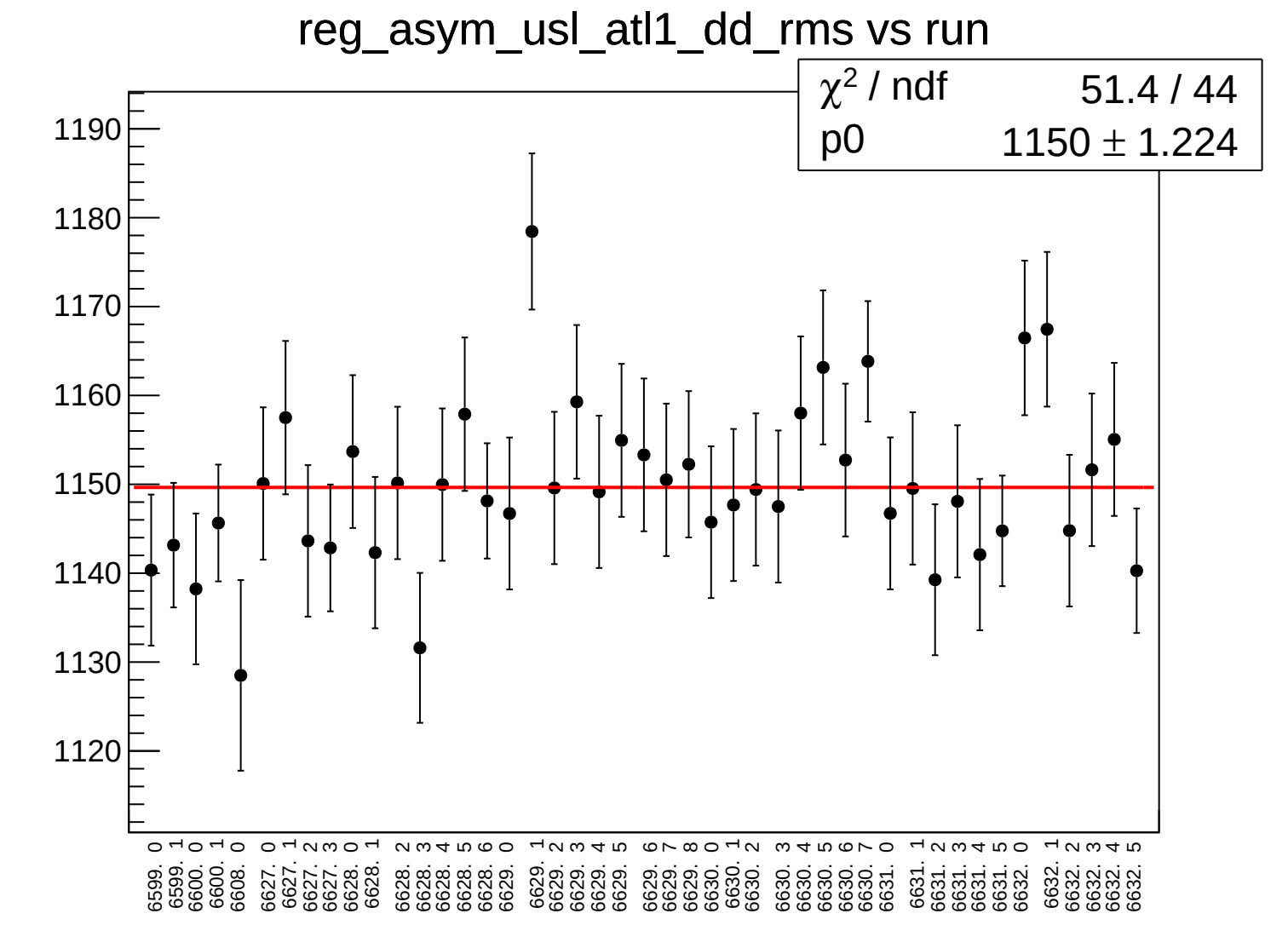
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −197.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.00319
Std Dev 0.8222
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 51.4 / 44
p0 1150 ± 1.224
1190
1180
1170
1160
1150
1140
1130
1120
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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6629. 0
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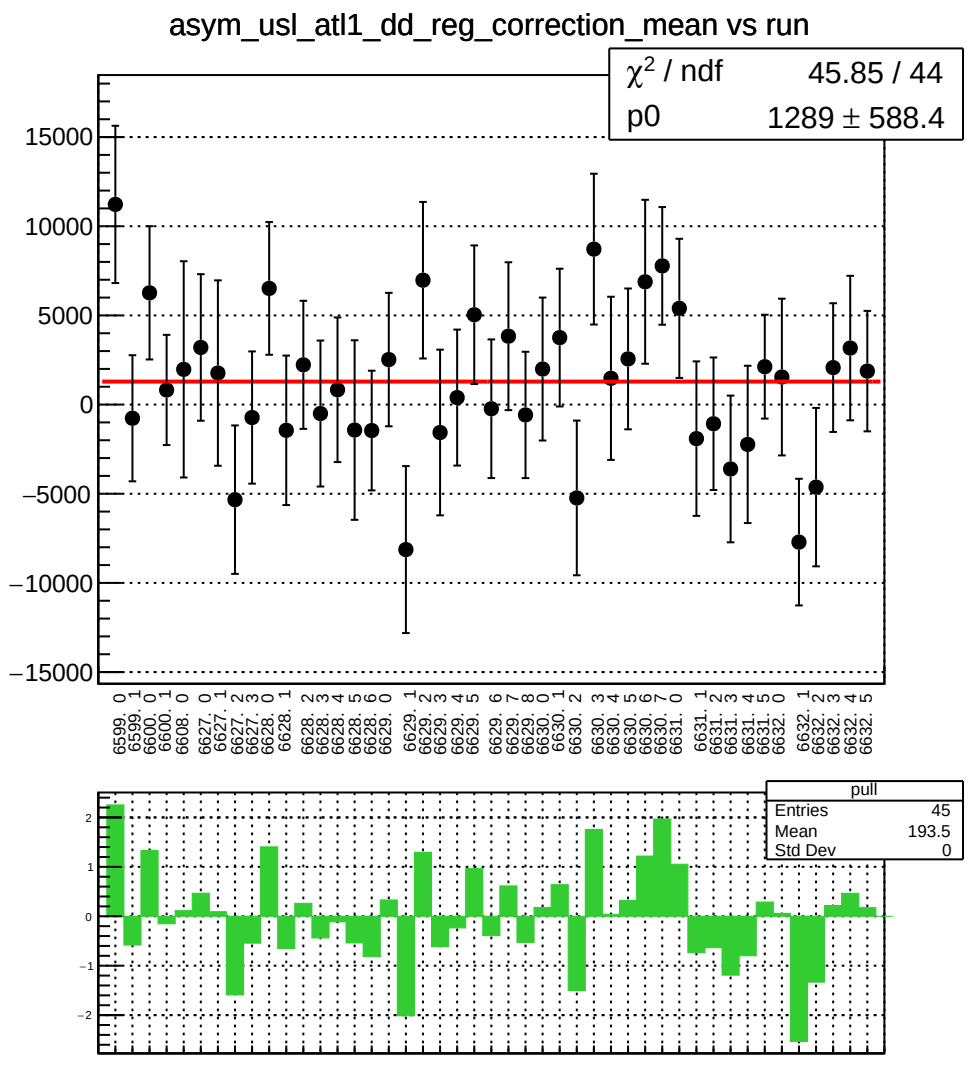
asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 45.85 / 44
p0 1289 ± 588.4
15000
10000
5000
0
−5000
−10000
−15000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
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6629. 1
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6630. 1
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 193.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01003
Std Dev 1.009
10
8
6
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2
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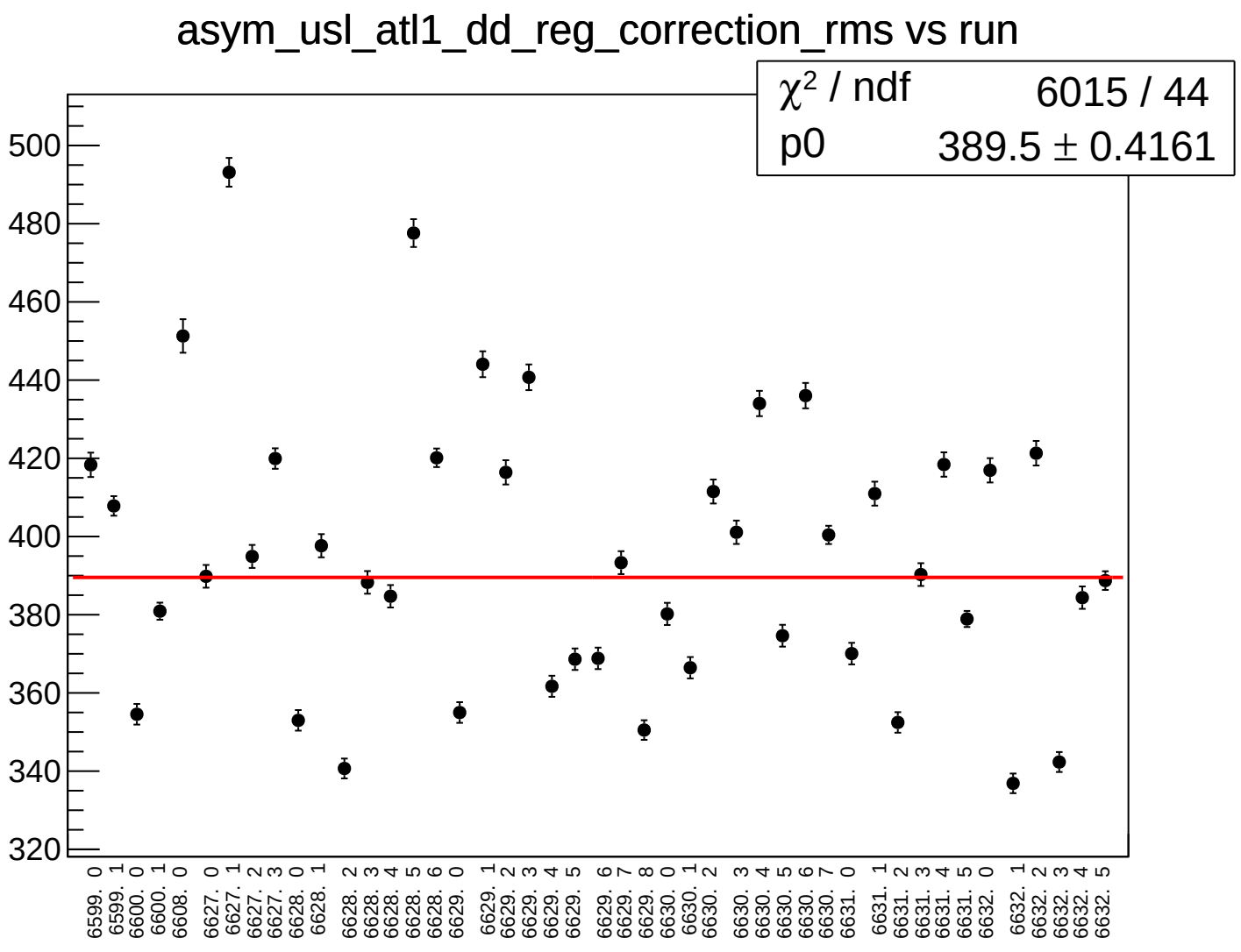
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 6015 / 44
p0 389.5 ± 0.4161
500
480
460
440
420
400
380
360
340
320
6599. 0
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6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
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6628. 0
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6629. 4
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6629. 6
6629. 7
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6630. 6
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6631. 0
6631. 1
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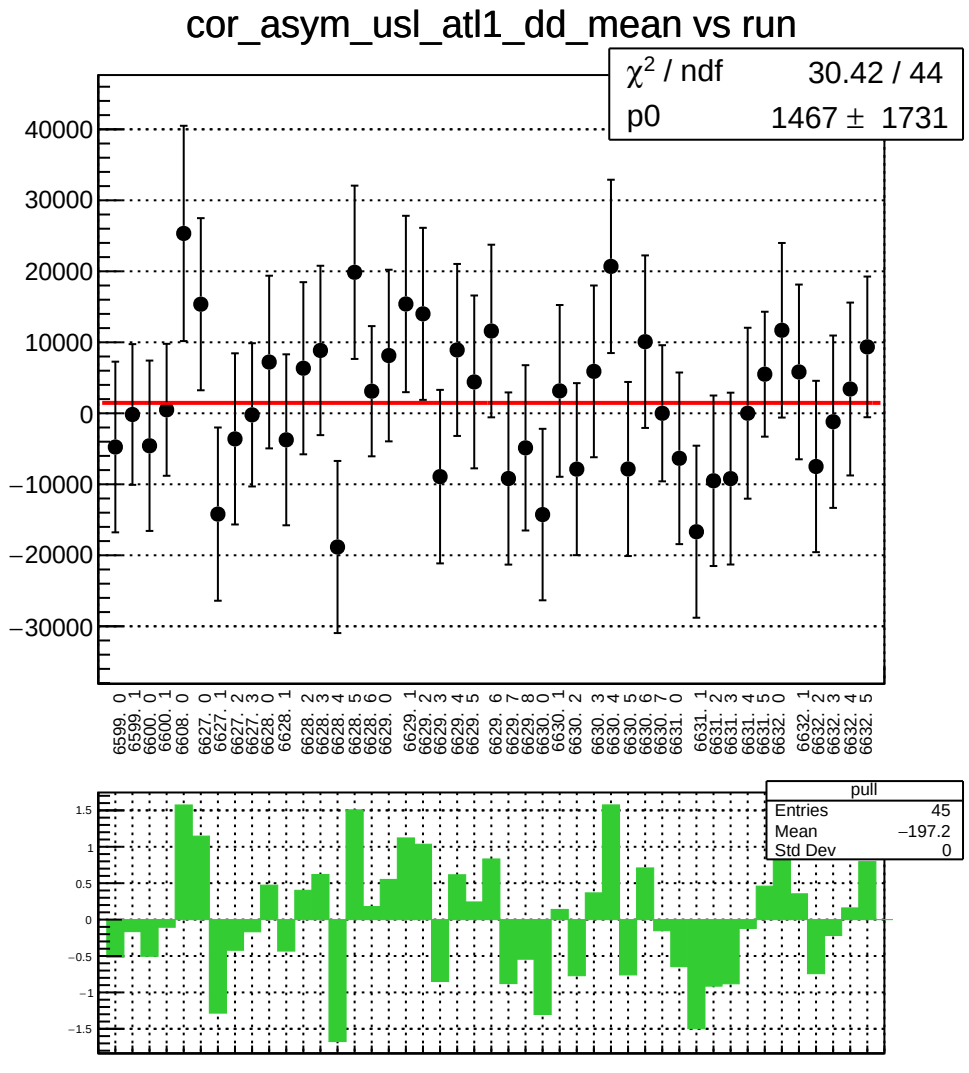
6632. 4
6632. 5


cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 30.42 / 44
p0 1467 ± 1731
40000
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −197.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.003189
Std Dev 0.8222
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1
0
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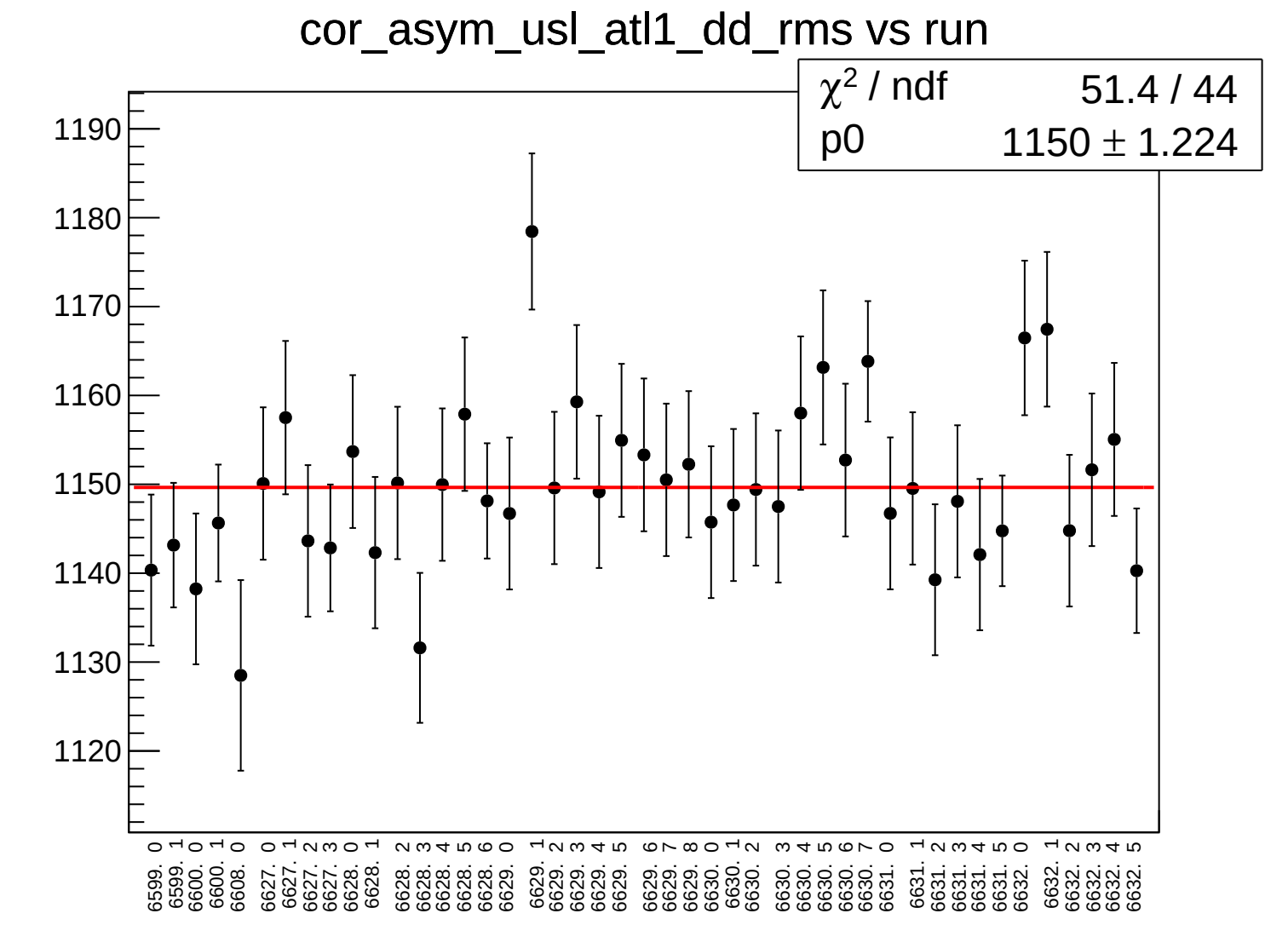
−6
−4
−2
0
2
4
6
8


cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 51.4 / 44
p0 1150 ± 1.224
1190
1180
1170
1160
1150
1140
1130
1120
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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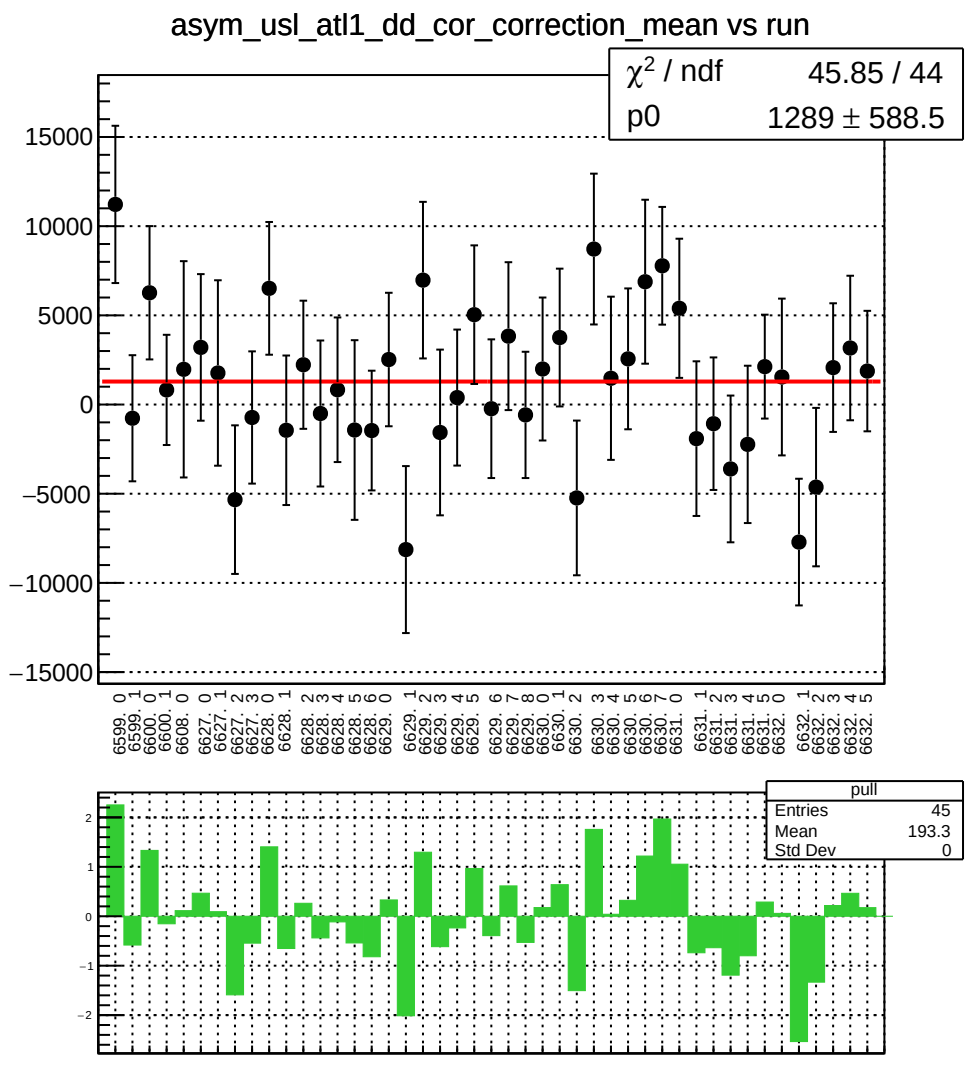
6632. 5


asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 45.85 / 44
p0 1289 ± 588.5
15000
10000
5000
0
−5000
−10000
−15000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6629. 0
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6630. 5
6630. 6
6630. 7
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6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 193.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01005
Std Dev 1.009
10
8
6
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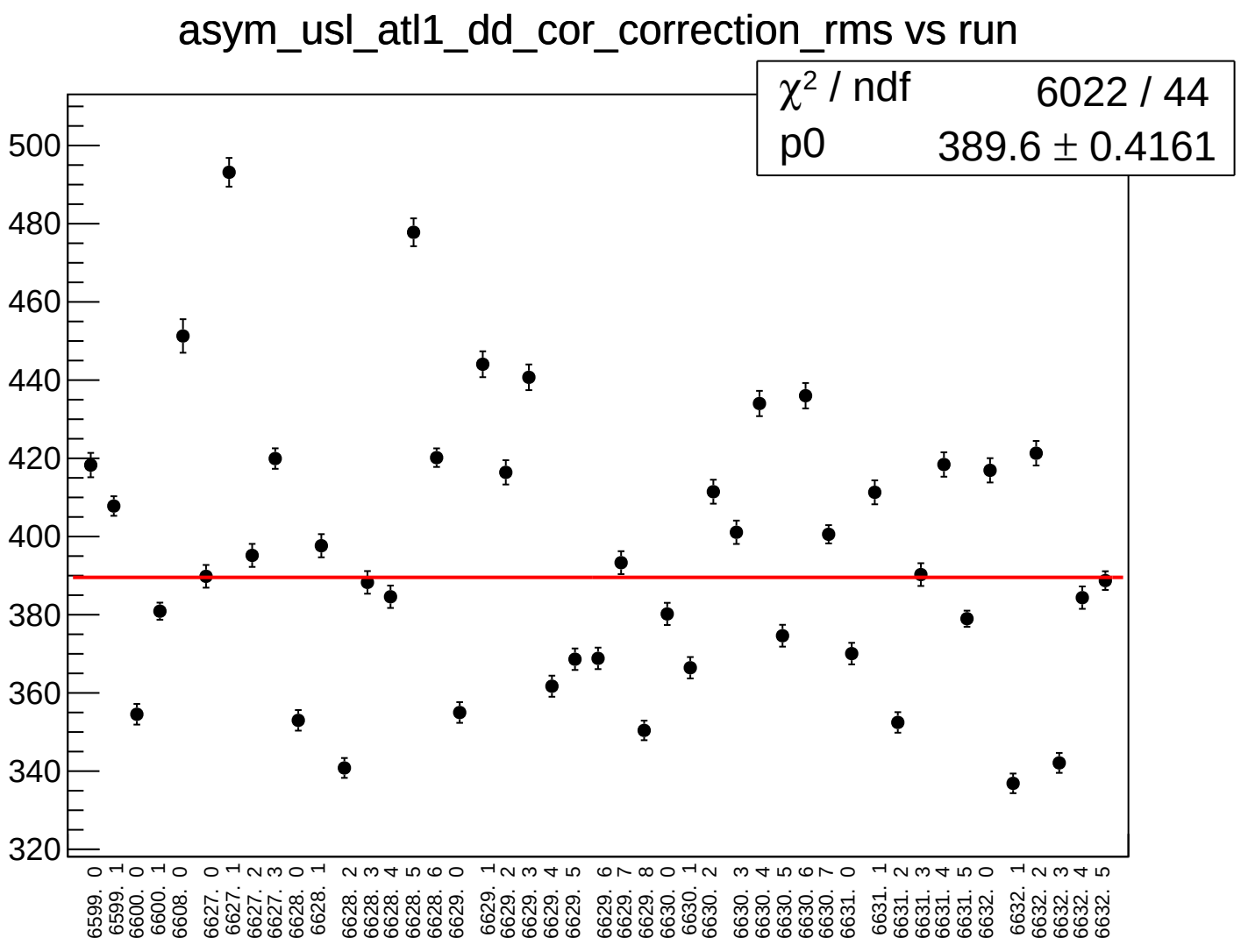
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 6022 / 44
p0 389.6 ± 0.4161
500
480
460
440
420
400
380
360
340
320
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
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6629. 4
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6629. 7
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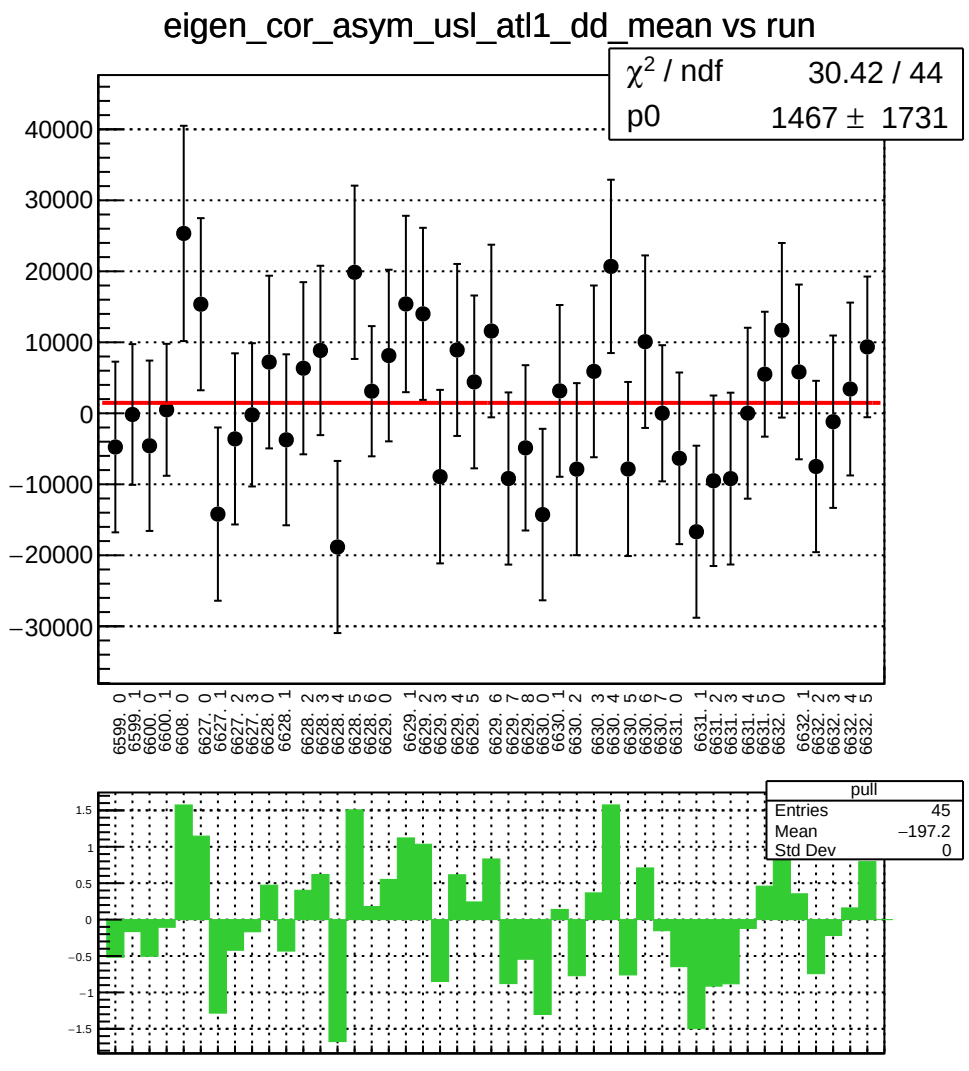
6632. 5


eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 30.42 / 44
p0 1467 ± 1731
40000
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6628. 6
6629. 0
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6629. 6
6629. 7
6629. 8
6630. 0
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6630. 2
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6630. 5
6630. 6
6630. 7
6631. 0
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −197.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.003189
Std Dev 0.8222
9
8
7
6
5
4
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2
1
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−4
−2
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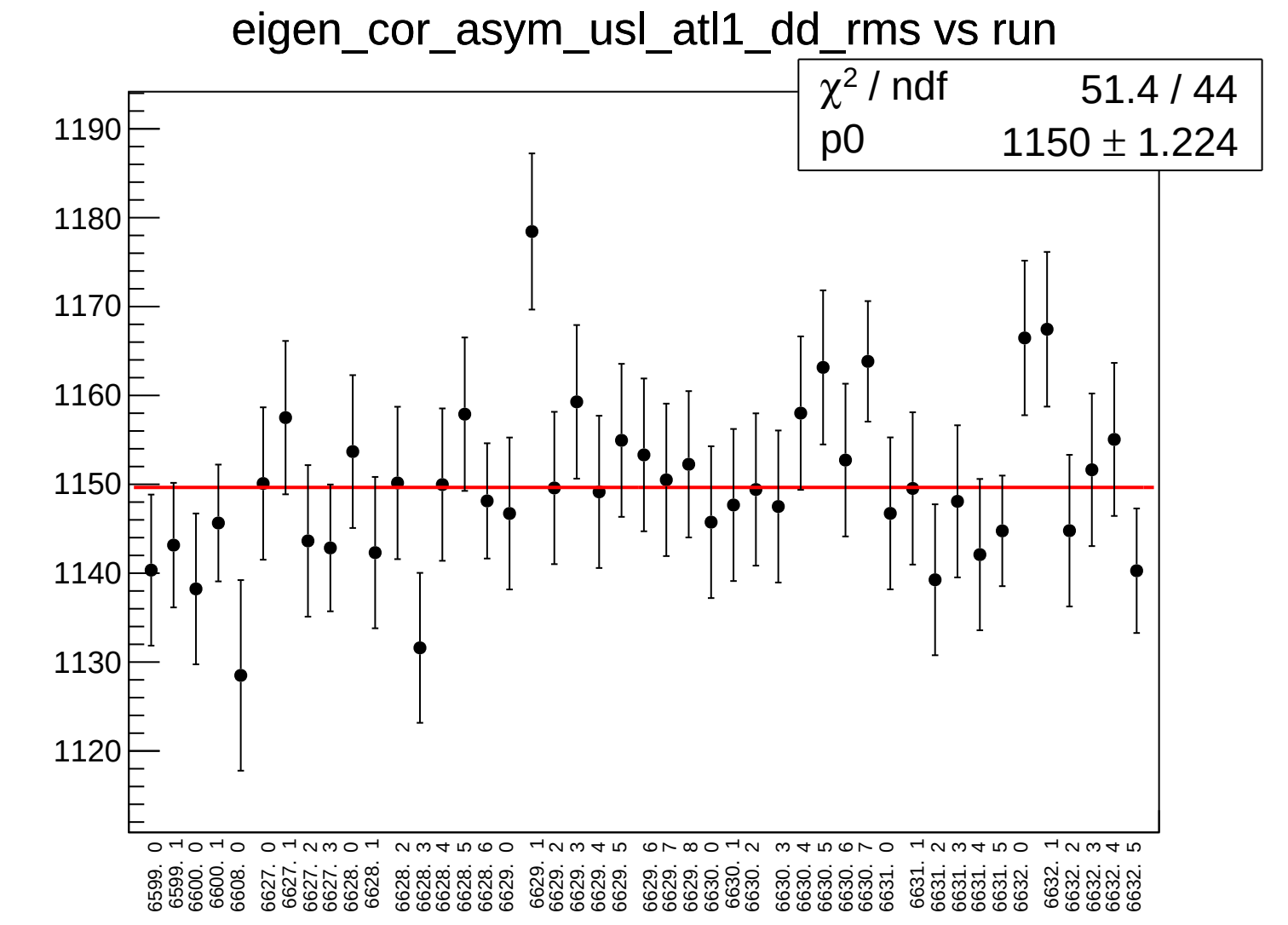
2
4
6
8


eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 51.4 / 44
p0 1150 ± 1.224
1190
1180
1170
1160
1150
1140
1130
1120
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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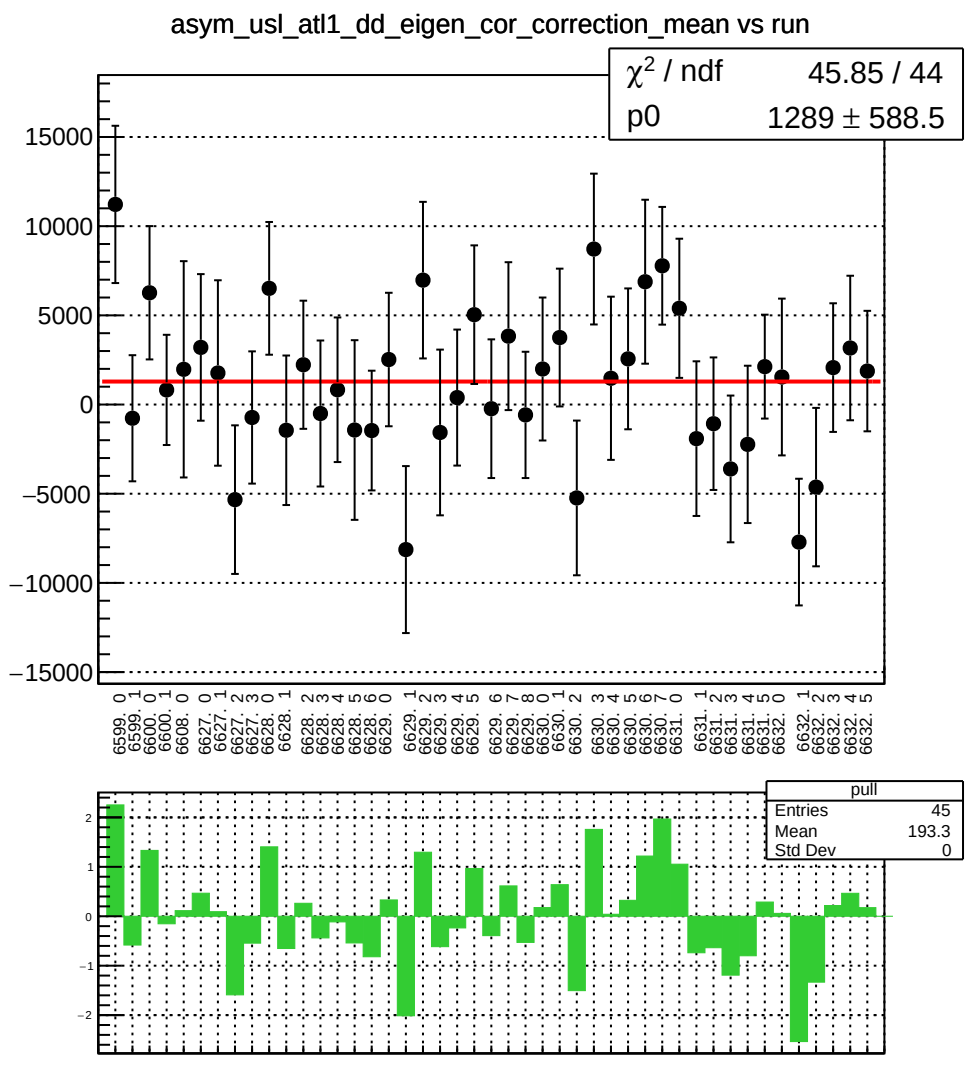
6632. 5


asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 45.85 / 44
p0 1289 ± 588.5
15000
10000
5000
0
−5000
−10000
−15000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6631. 2
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6632. 0
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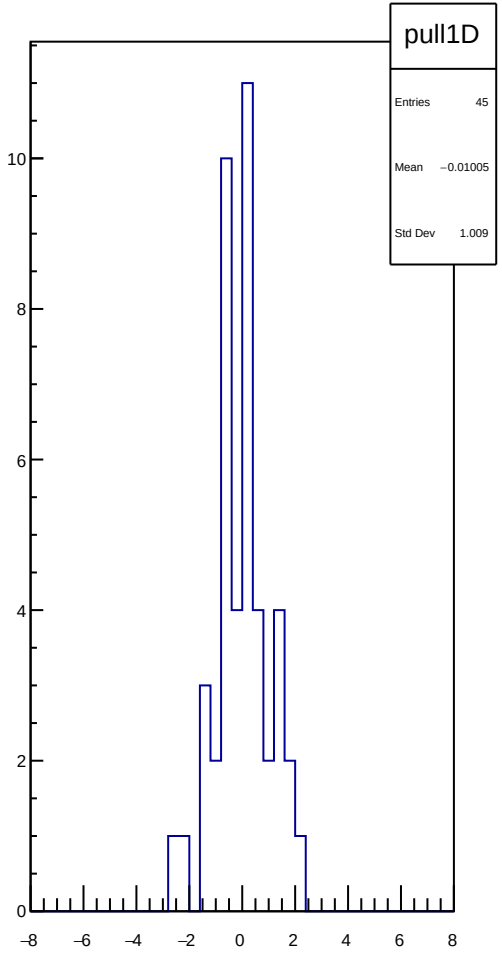
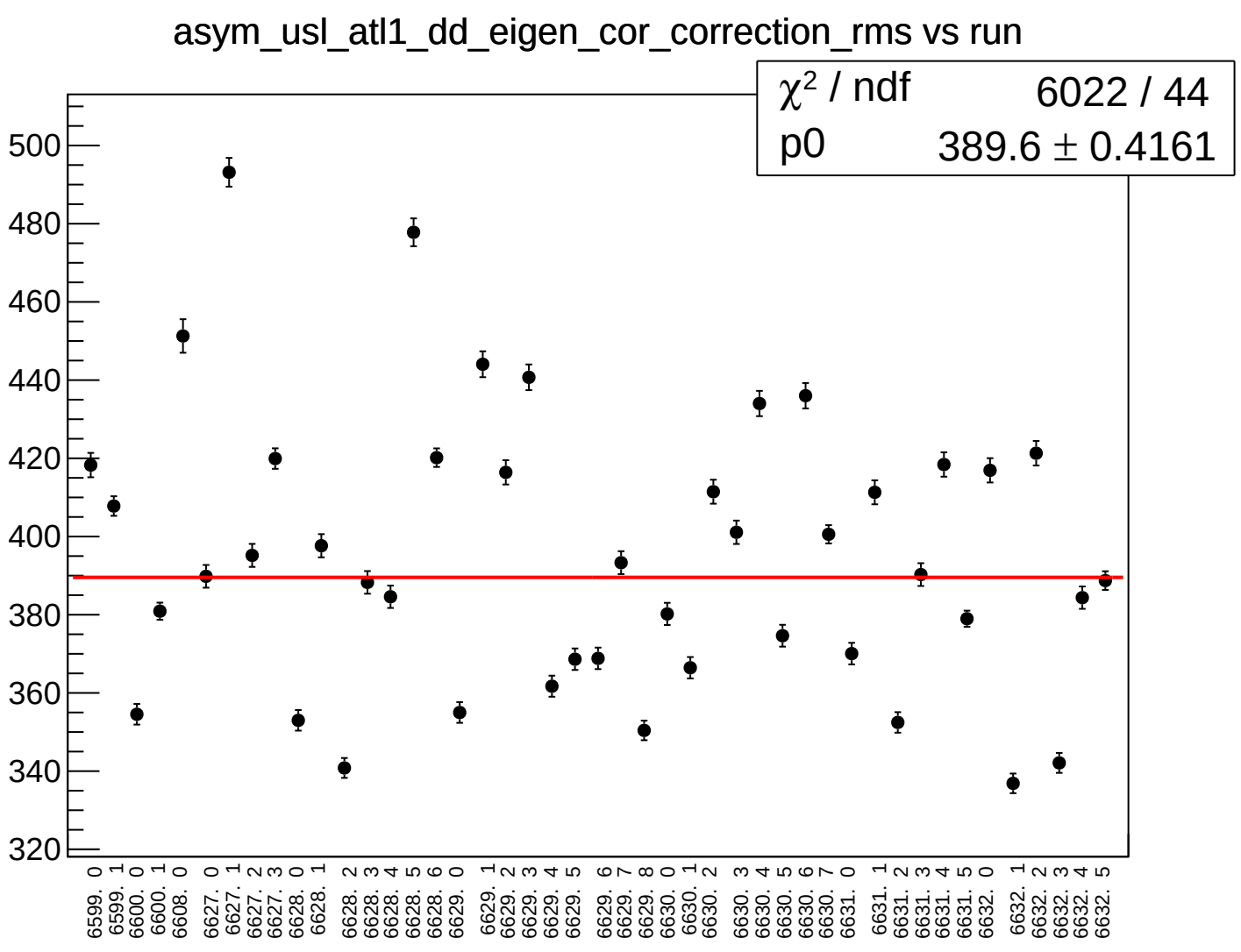
6632. 5
pull
Entries 45
Mean 193.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.01005
Std Dev 1.009
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 6022 / 44
p0 389.6 ± 0.4161
500
480
460
440
420
400
380
360
340
320
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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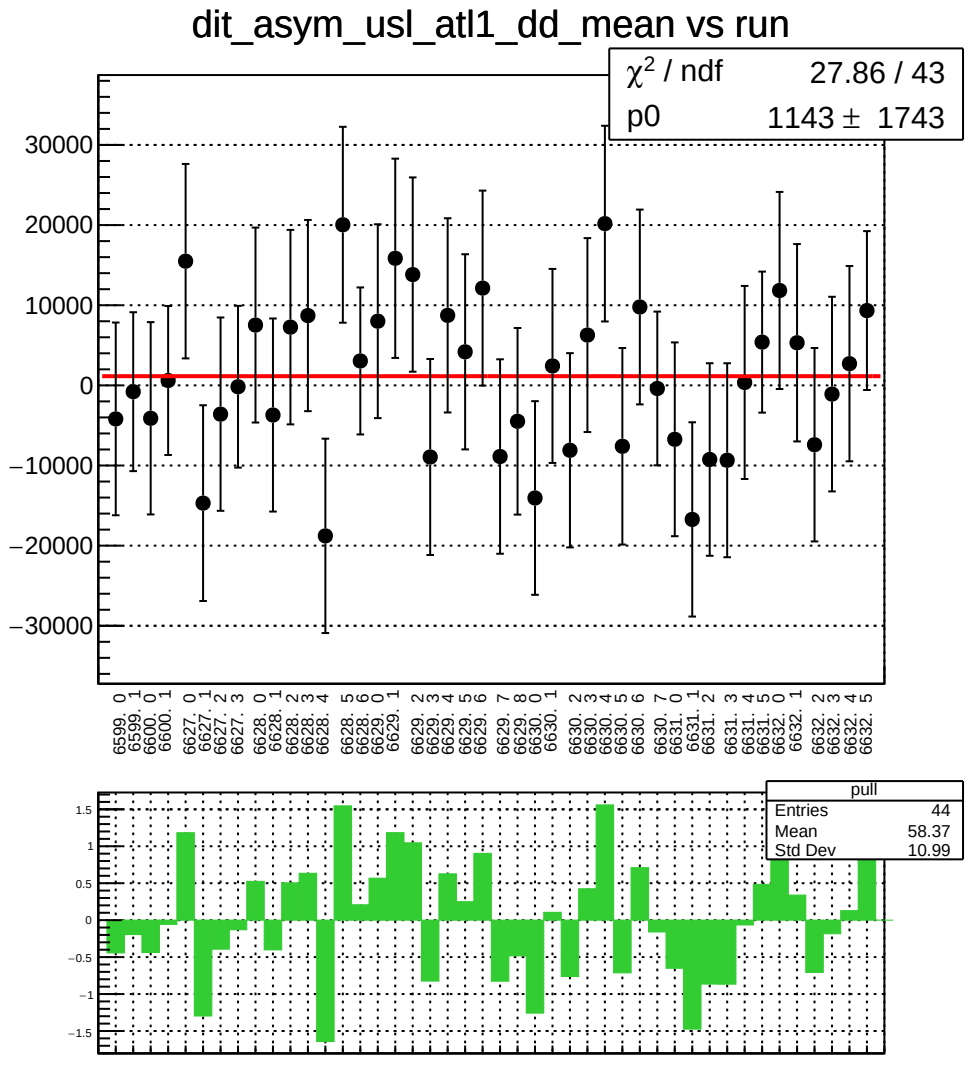
dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 27.86 / 43
p0 1143 ± 1743
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20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 6
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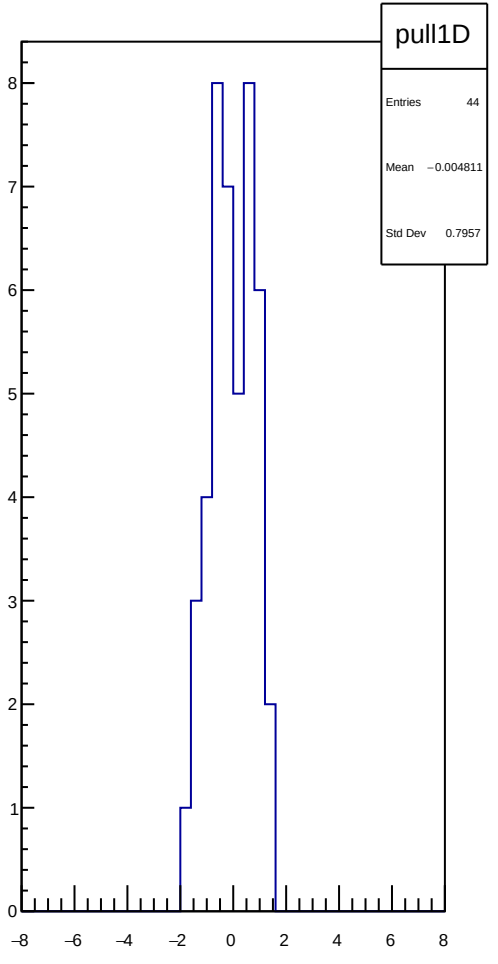
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 44
Mean 58.37
Std Dev 10.99
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 44
Mean −0.004811
Std Dev 0.7957
8
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5
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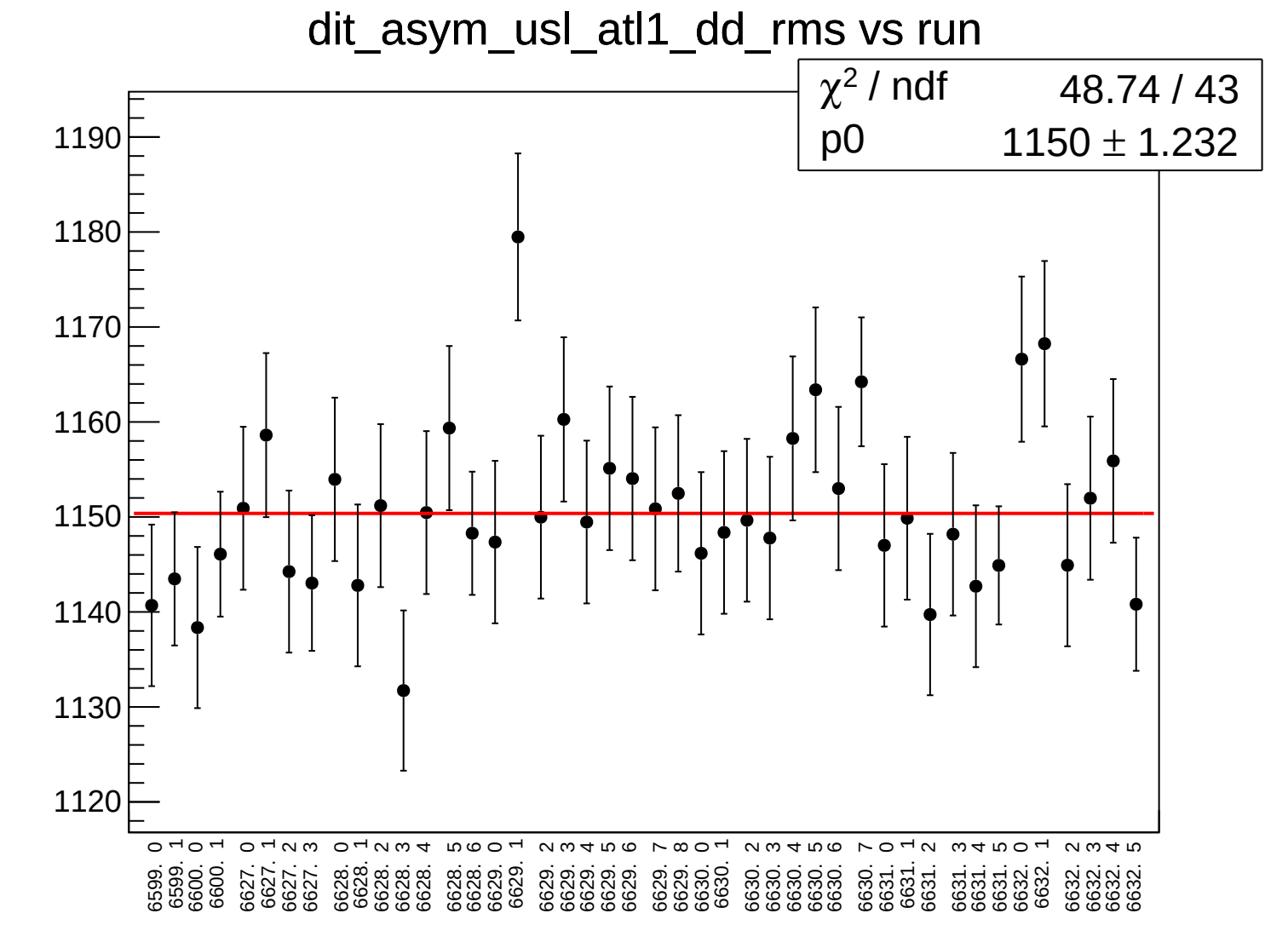
6
8


dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 48.74 / 43
p0 1150 ± 1.232
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1120
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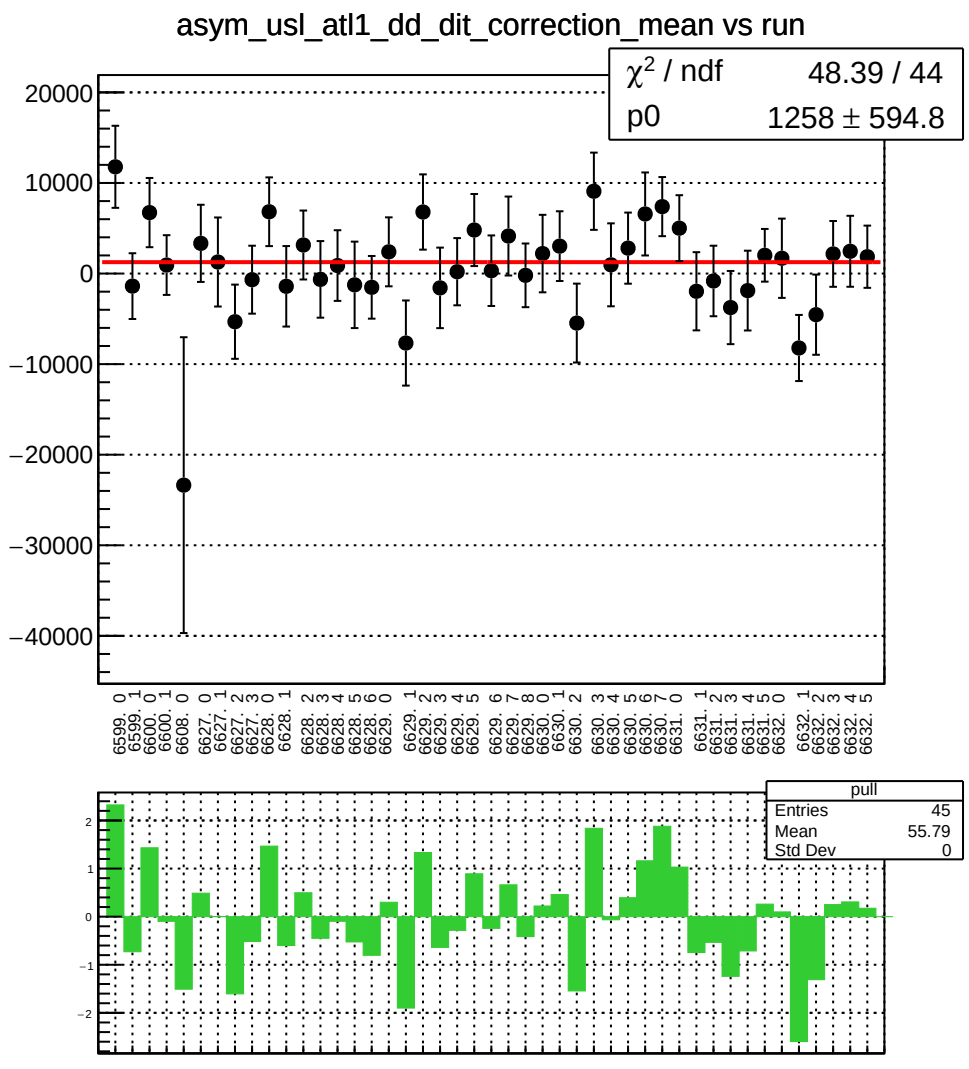
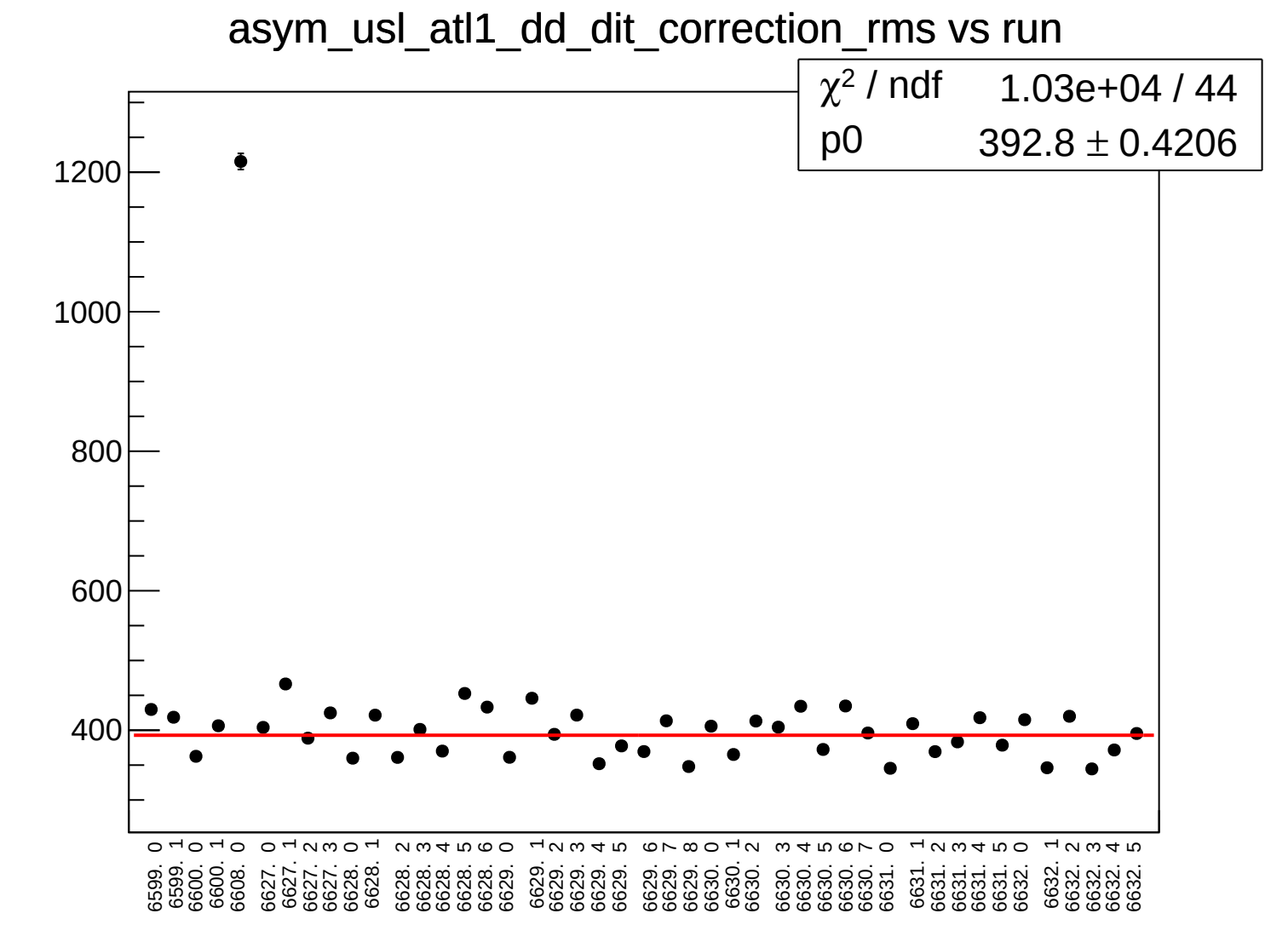
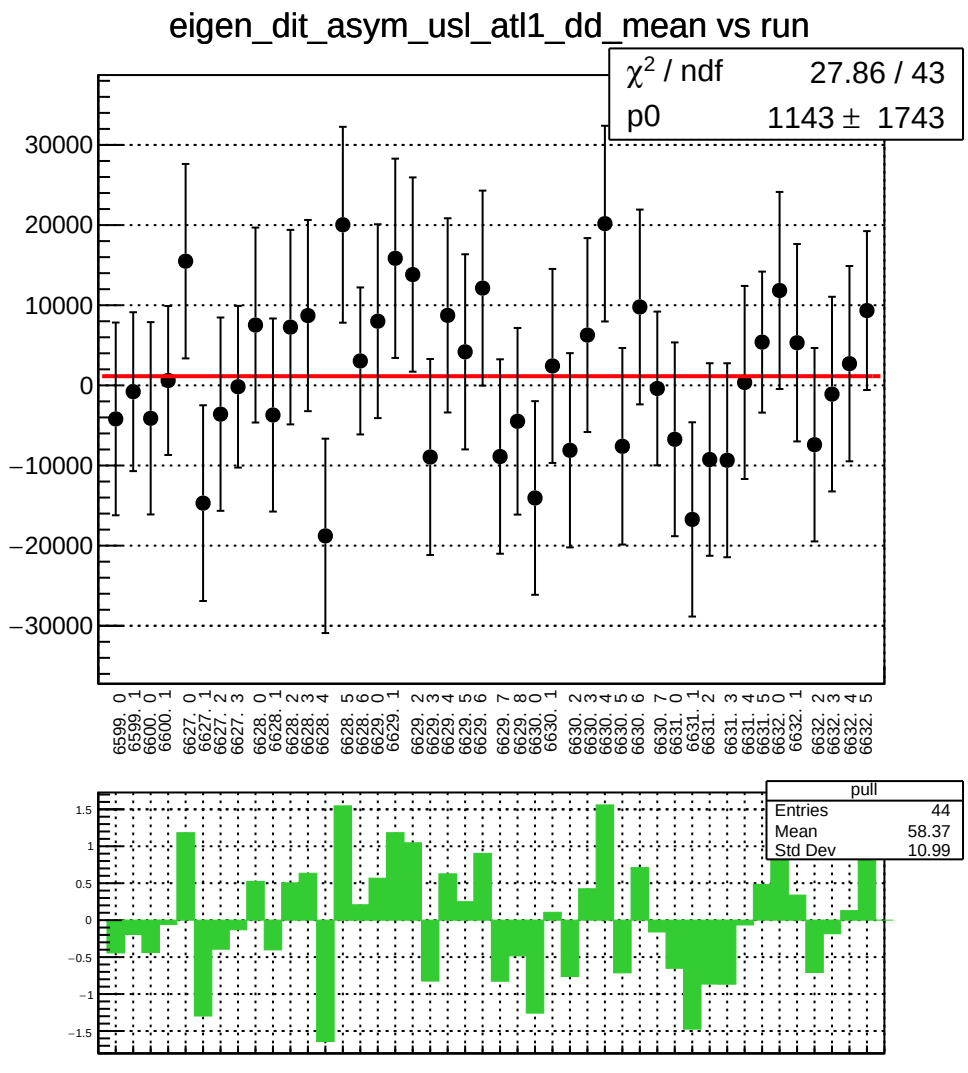
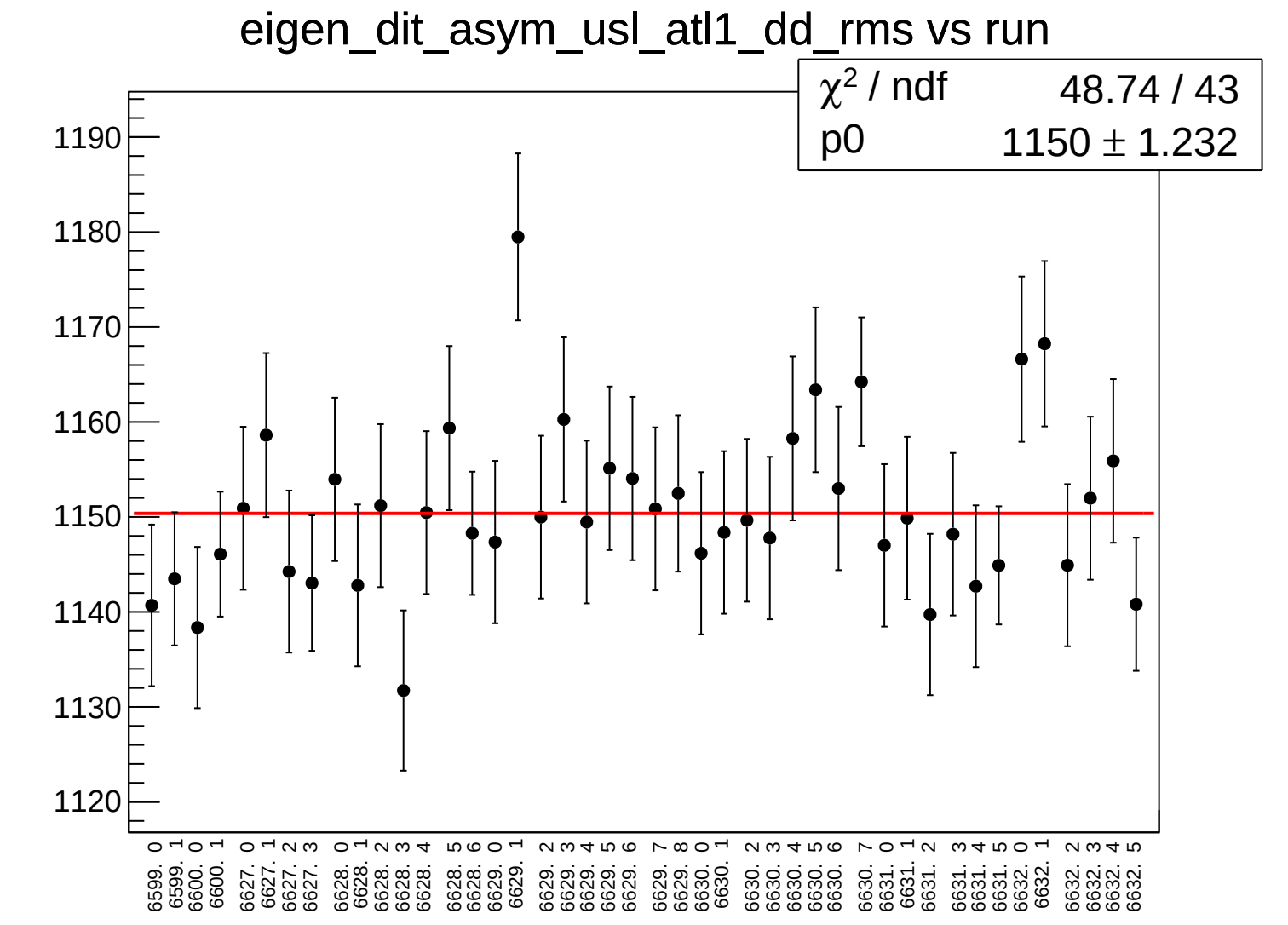
6632. 4
6632. 5


asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 48.39 / 44
p0 1258 ± 594.8
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 55.79
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.03753
Std Dev 1.036
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 1.03e+04 / 44
p0 392.8 ± 0.4206
1200
1000
800
600
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 27.86 / 43
p0 1143 ± 1743
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 44
Mean 58.37
Std Dev 10.99
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 44
Mean −0.004811
Std Dev 0.7957
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 48.74 / 43
p0 1150 ± 1.232
1190
1180
1170
1160
1150
1140
1130
1120
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
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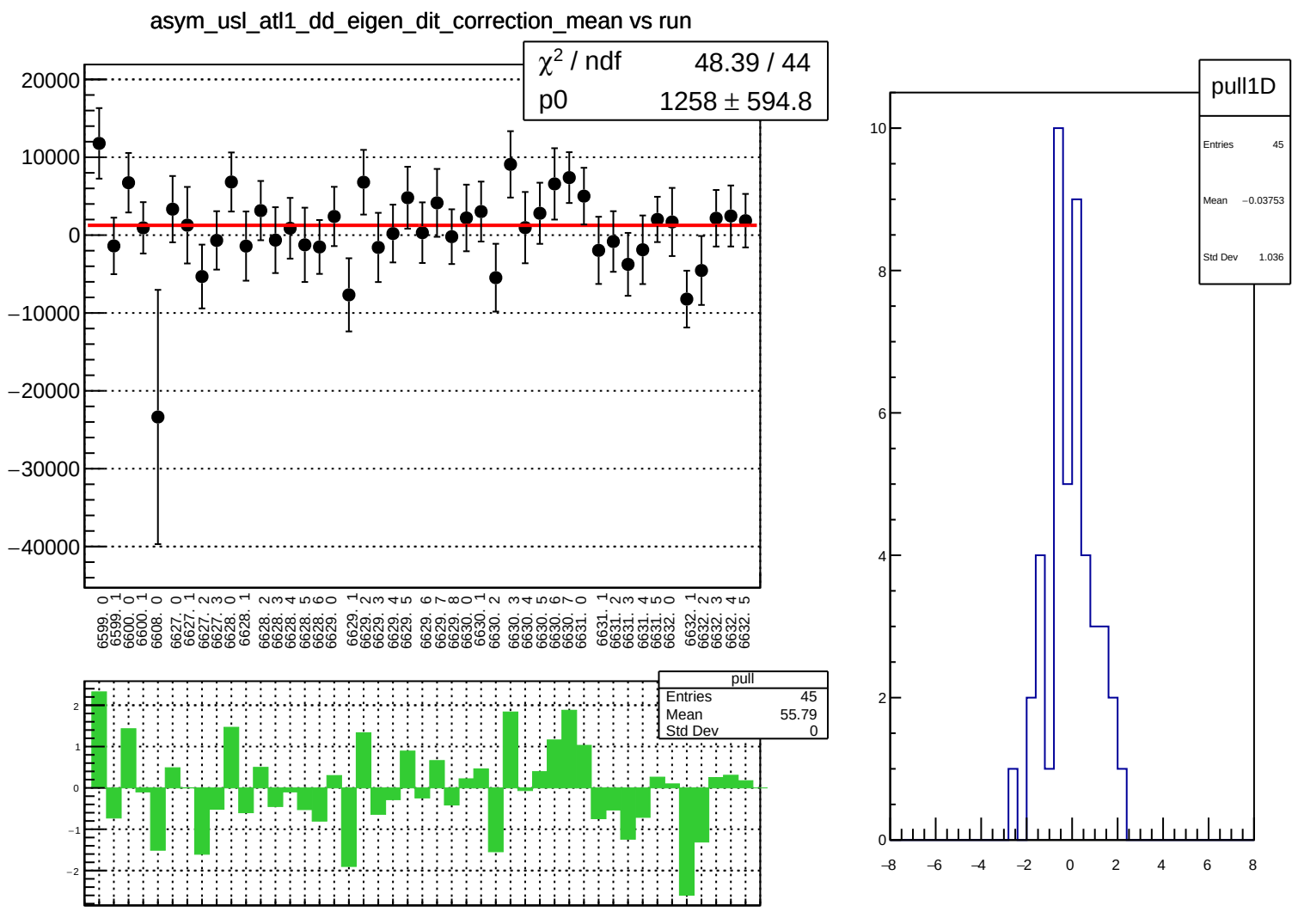
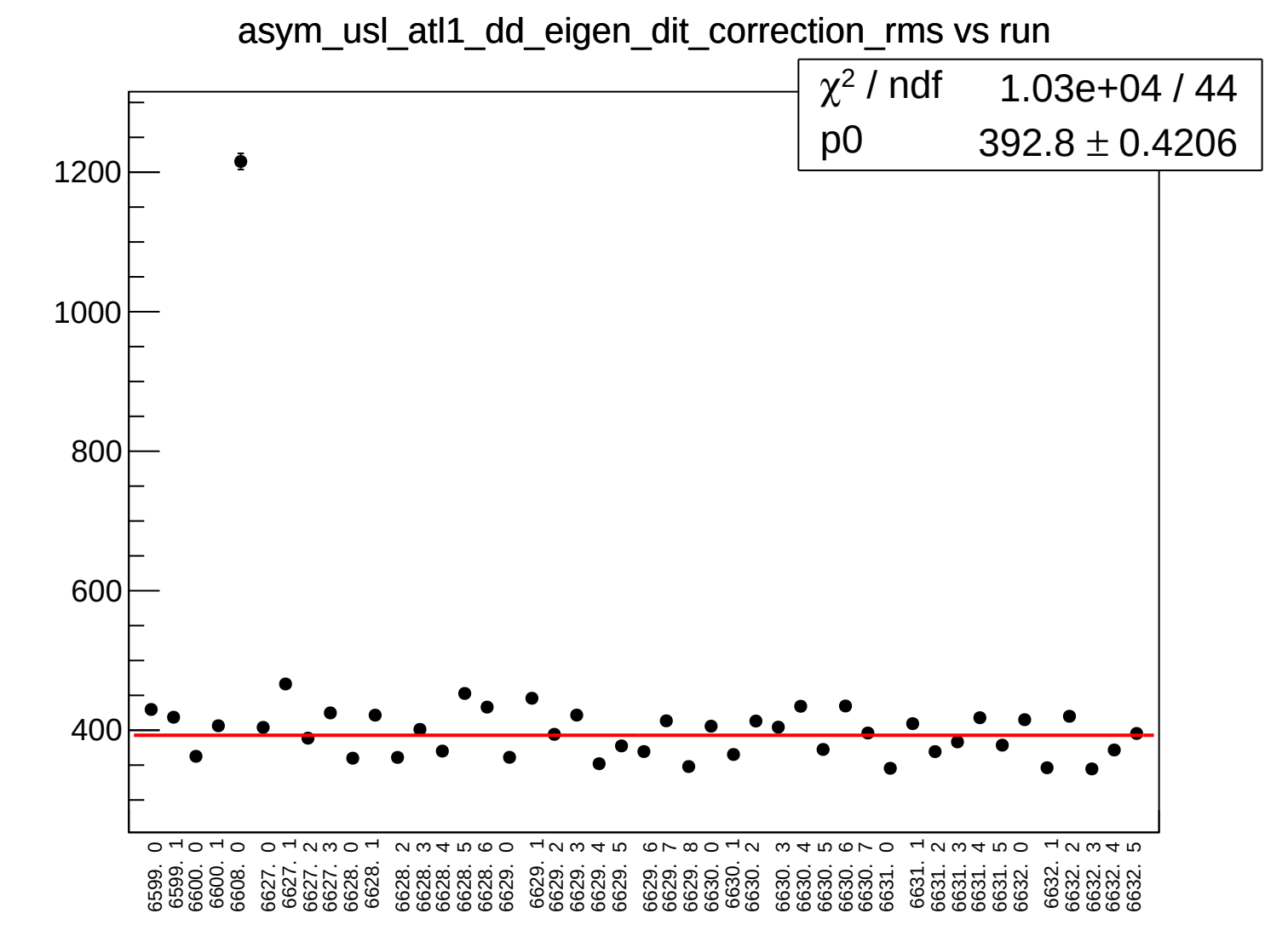
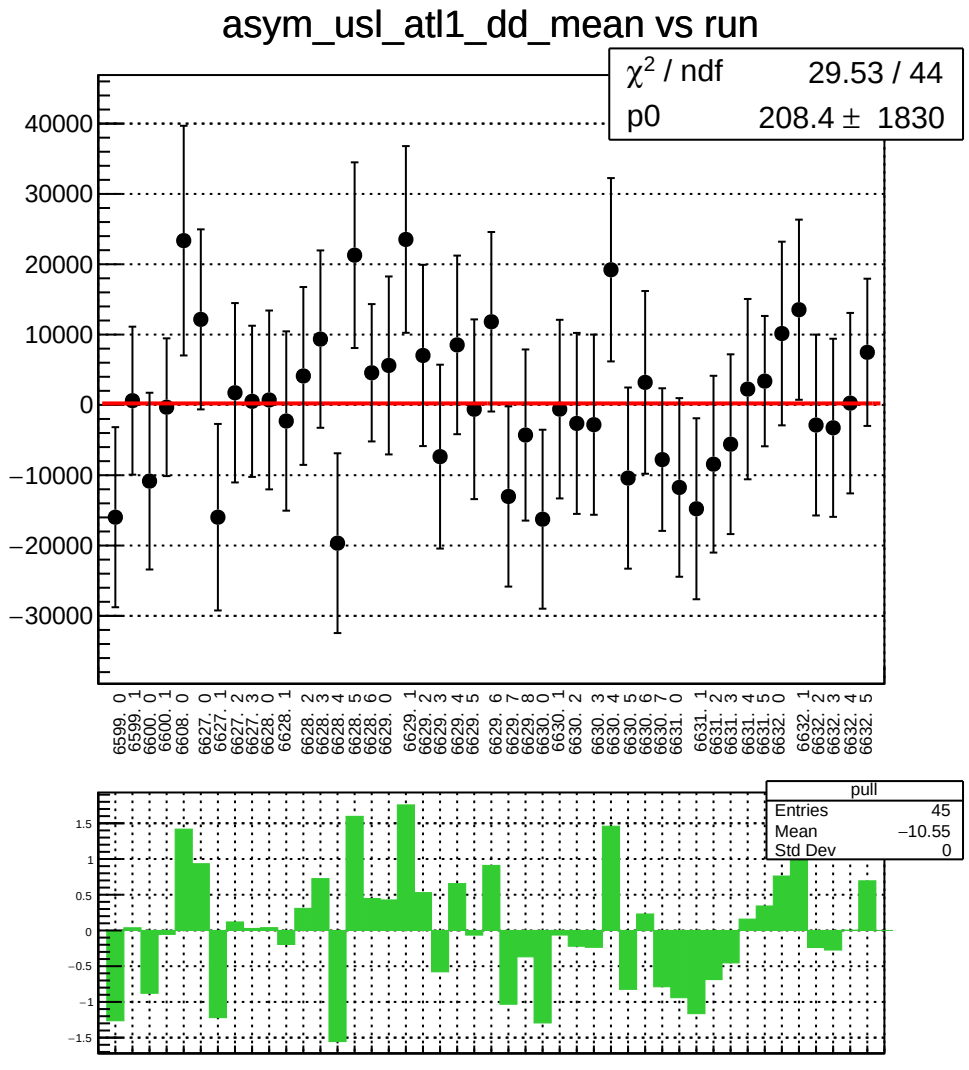
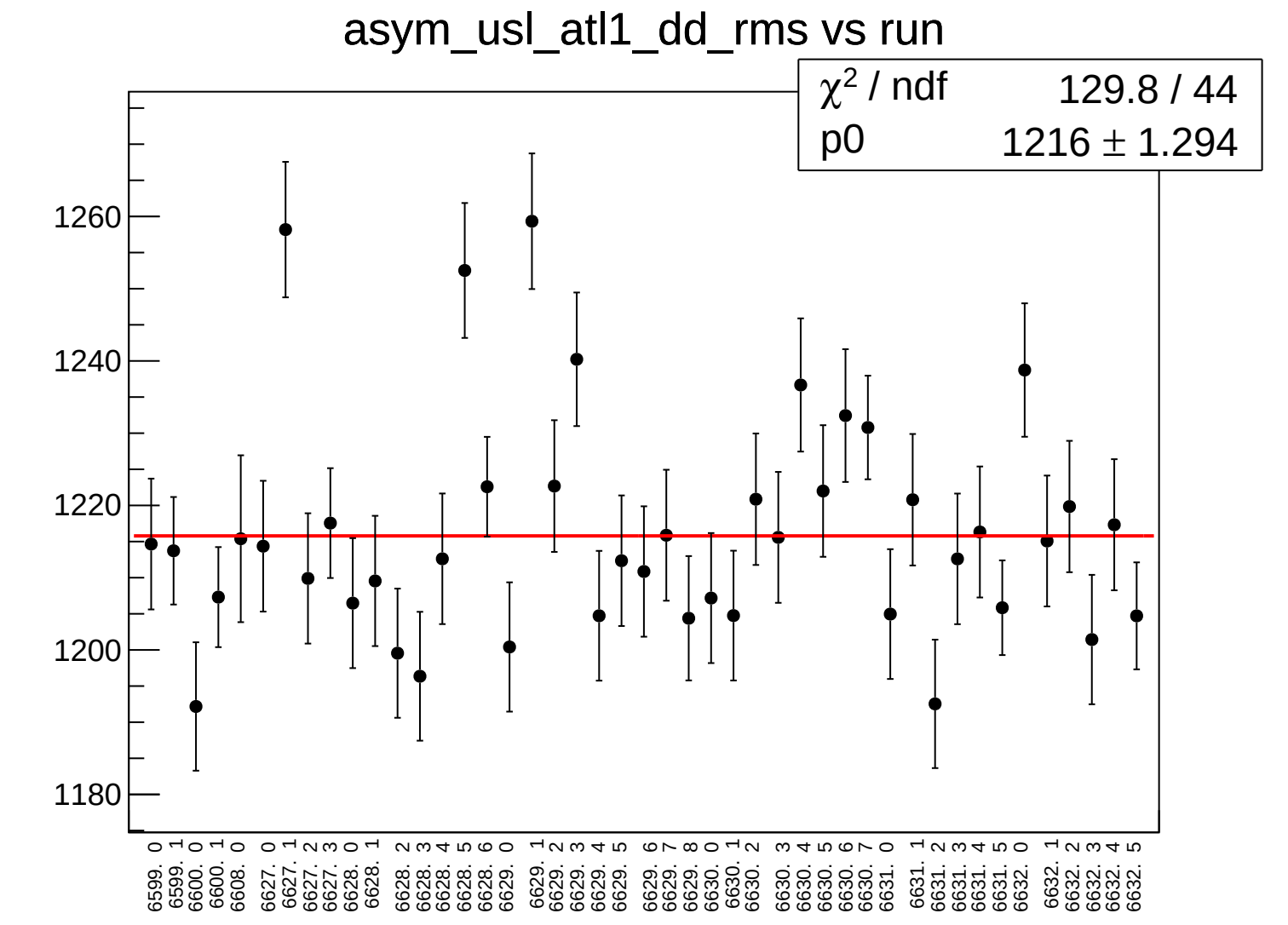
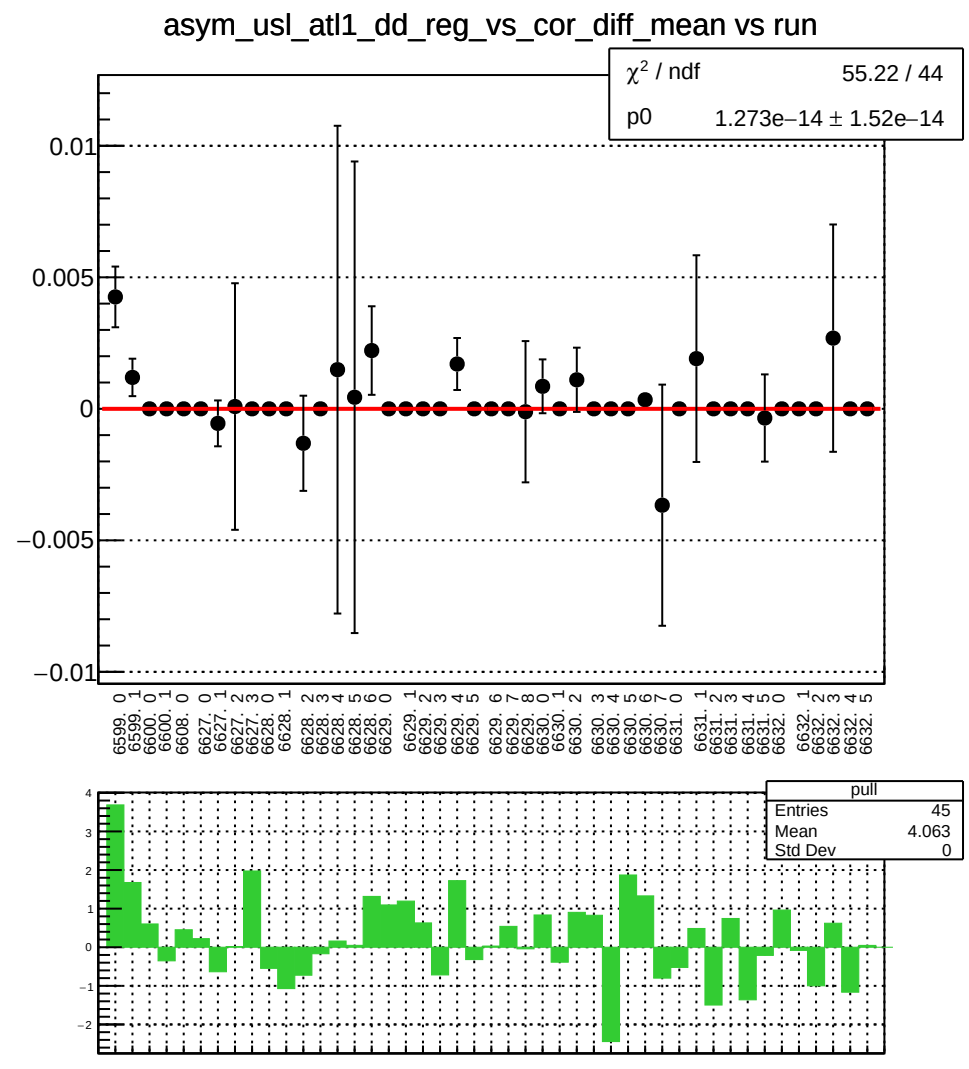
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

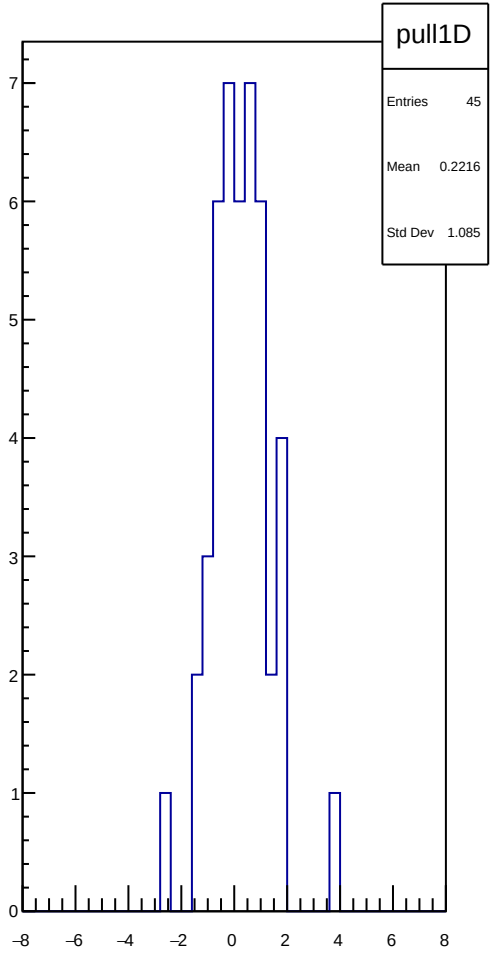

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 48.39 / 44
p0 1258 ± 594.8
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 55.79
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.03753
Std Dev 1.036
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

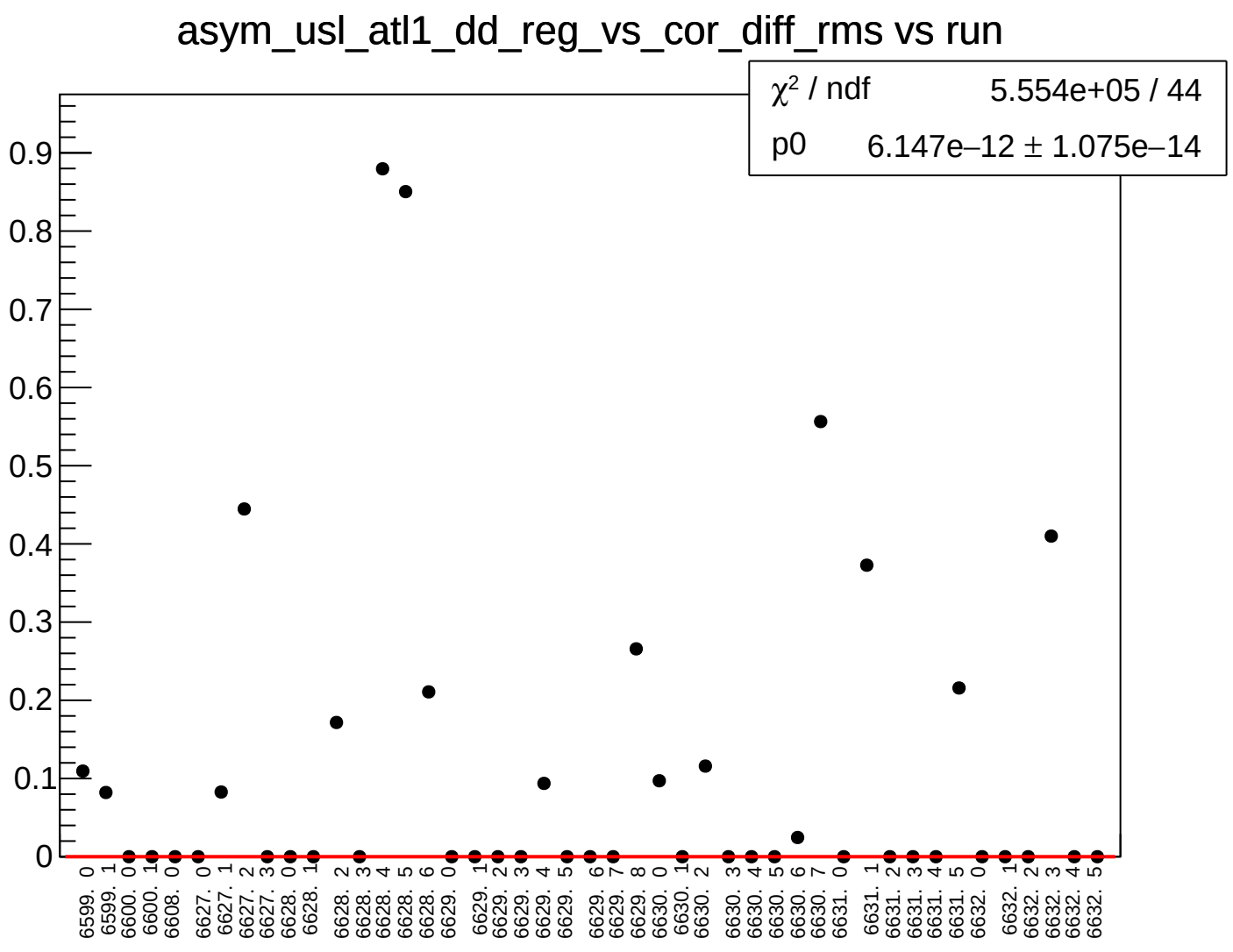

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.03e+04 / 44
p0 392.8 ± 0.4206
1200
1000
800
600
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

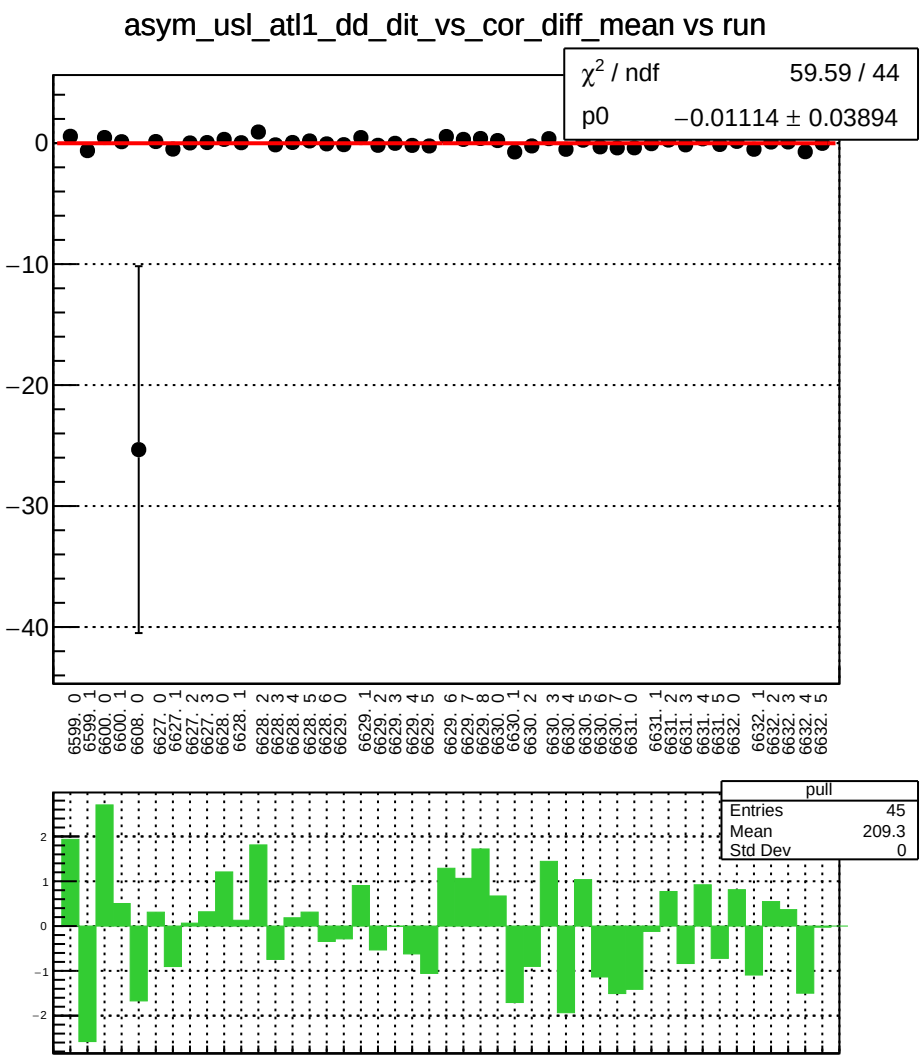

asym_usl_atl1_dd_mean vs run
χ² / ndf 29.53 / 44
p0 208.4 ± 1830
40000
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −10.55
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.005003
Std Dev 0.8101
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

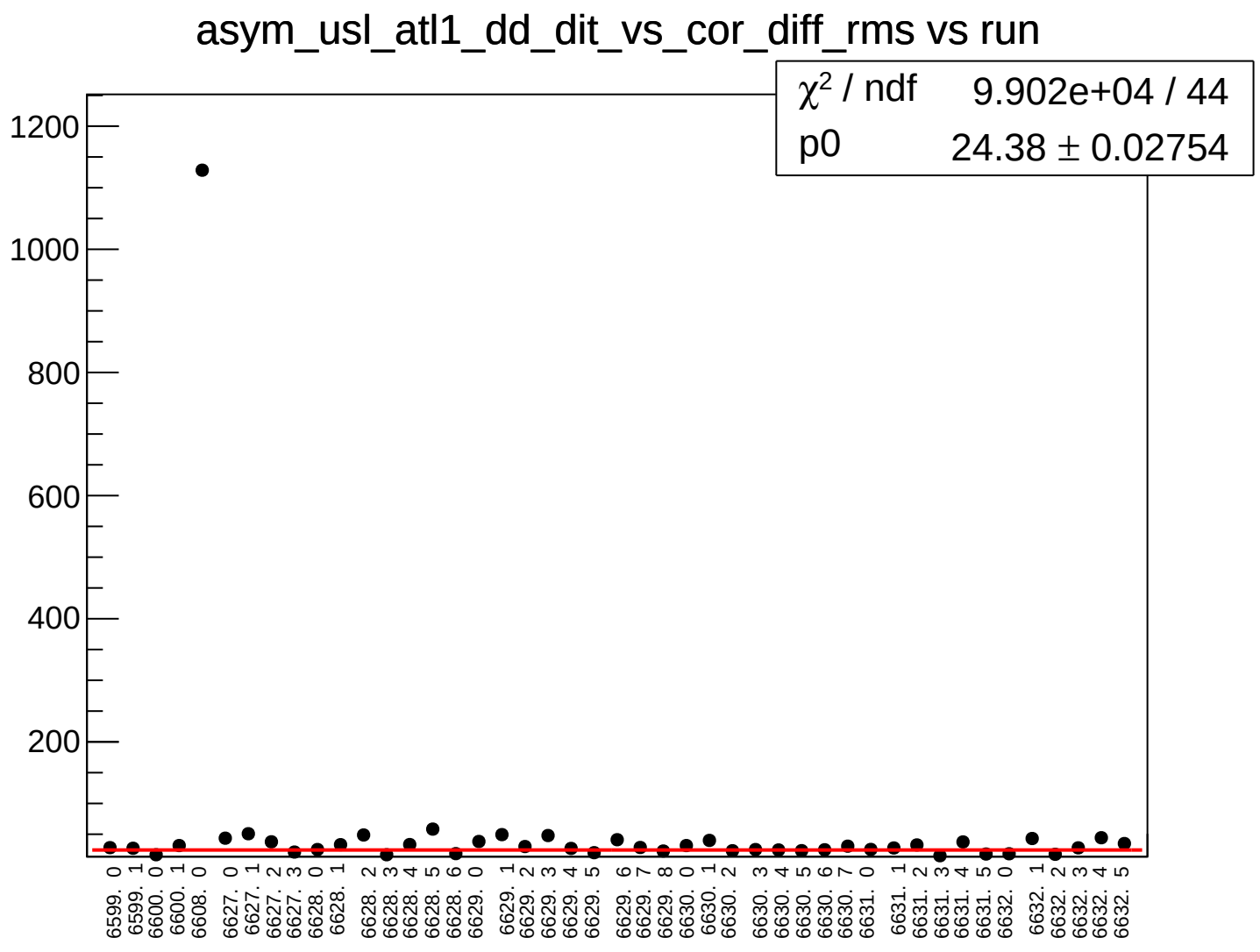

asym_usl_atl1_dd_rms vs run
χ² / ndf 129.8 / 44
p0 1216 ± 1.294
1260
1240
1220
1200
1180
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 55.22 / 44
p0 1.273e−14 ± 1.52e−14
0.01
0.005
0
−0.005
−0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 4.063
Std Dev 0
4
3
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.2216
Std Dev 1.085
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 5.554e+05 / 44
p0 6.147e−12 ± 1.075e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 59.59 / 44
p0 −0.01114 ± 0.03894
0
−10
−20
−30
−40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 209.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01324
Std Dev 1.151
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 9.902e+04 / 44
p0 24.38 ± 0.02754
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
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6629. 0
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6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6632. 2
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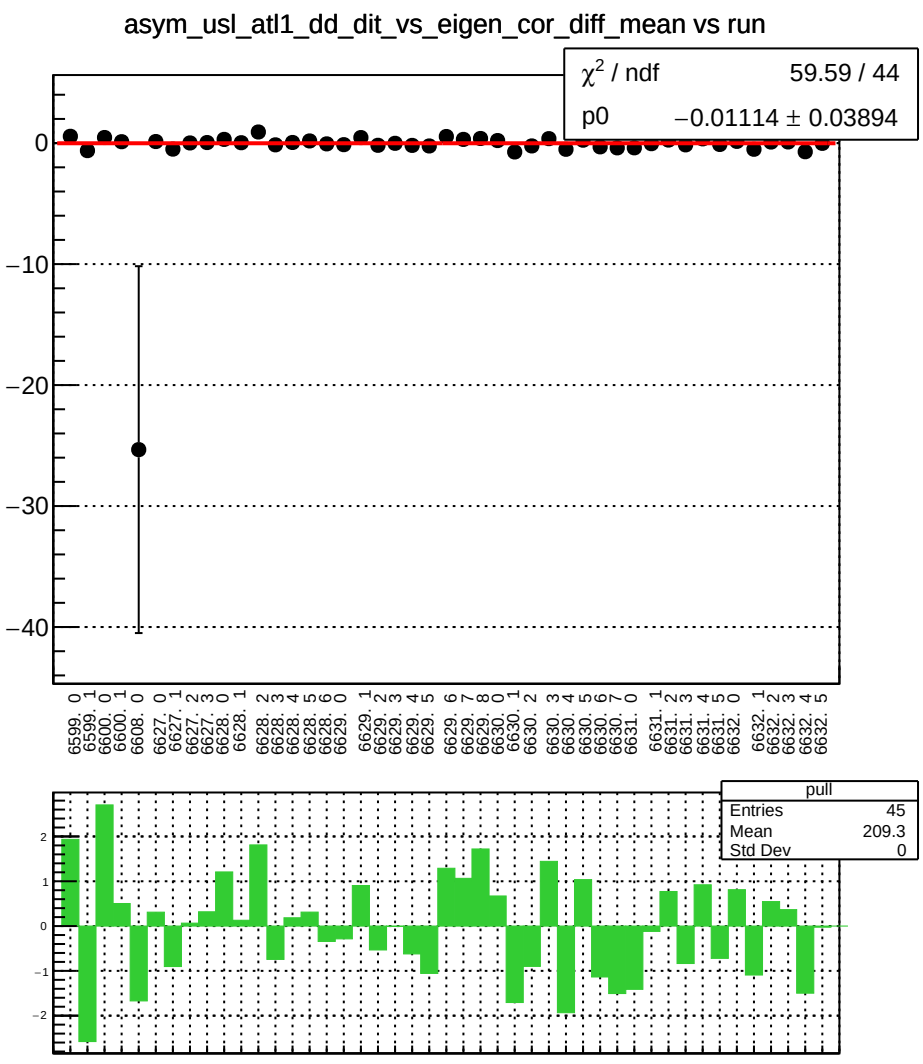
6632. 4
6632. 5


asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 59.59 / 44
p0 −0.01114 ± 0.03894
0
−10
−20
−30
−40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
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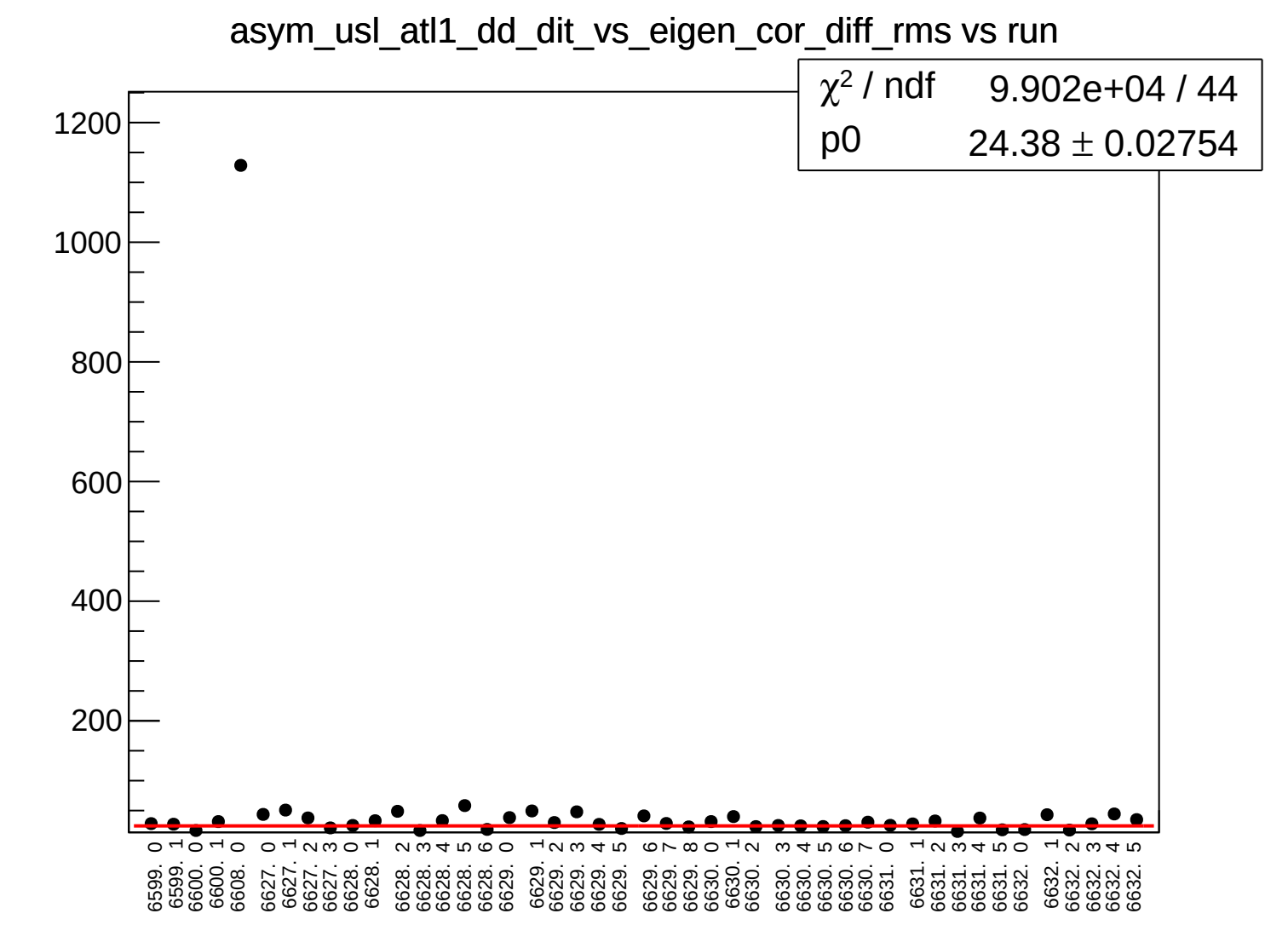
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 209.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01324
Std Dev 1.151
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.902e+04 / 44
p0 24.38 ± 0.02754
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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6628. 5
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6629. 0
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
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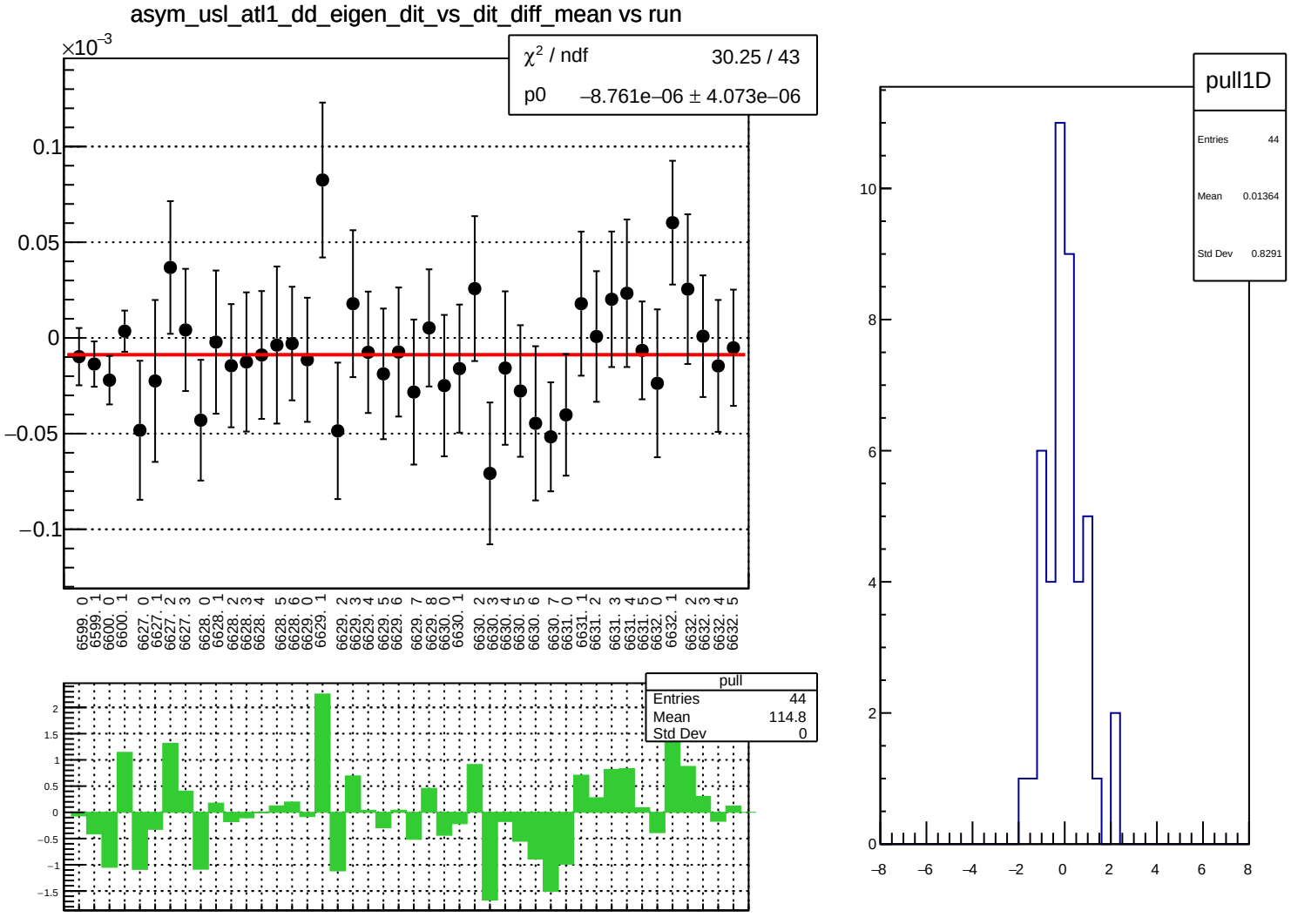
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 30.25 / 43
p0 −8.761e−06 ± 4.073e−06
0.1
0.05
0
−0.05
−0.1
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
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6629. 0
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6629. 8
6630. 0
6630. 1
6630. 2
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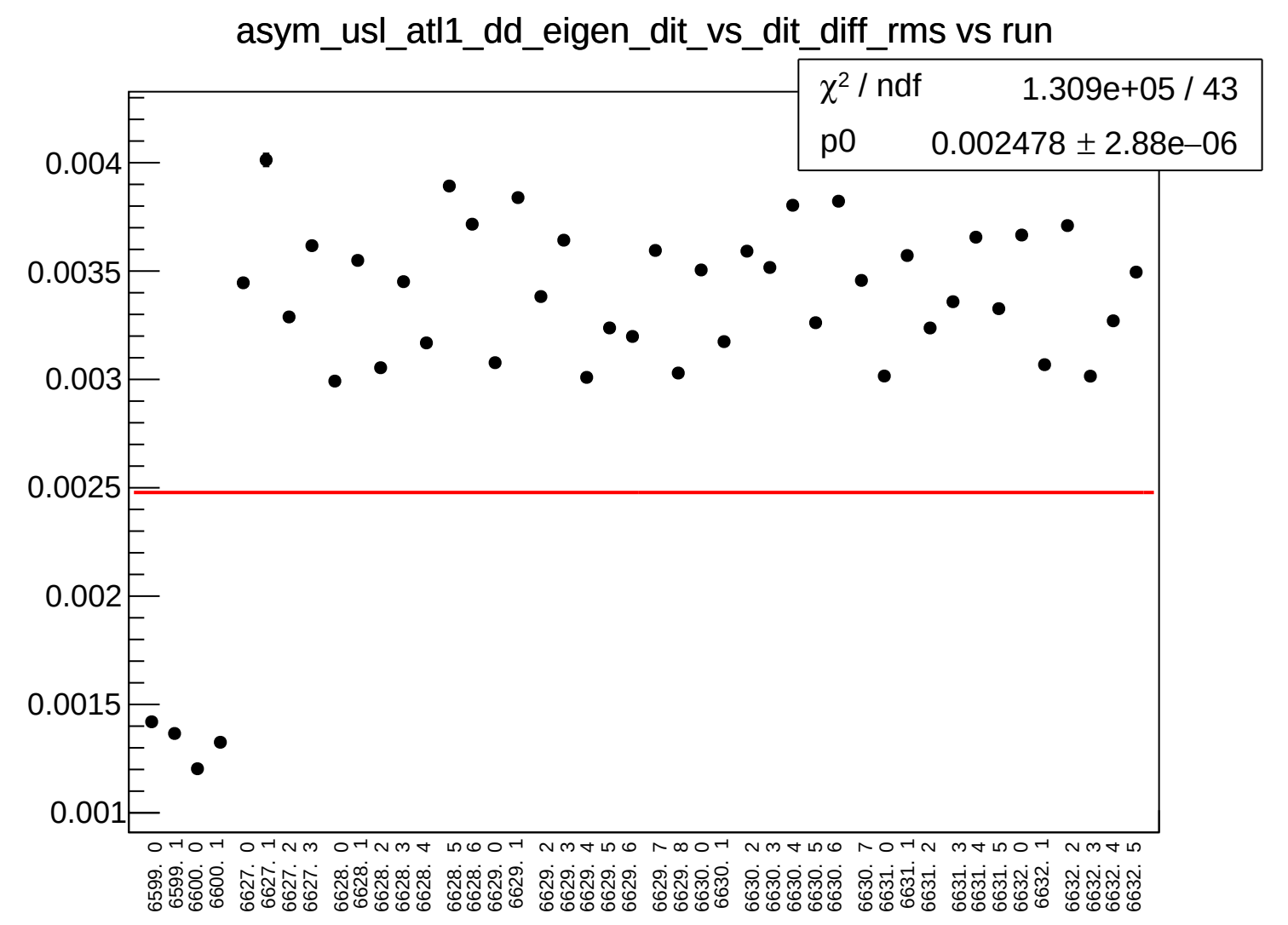
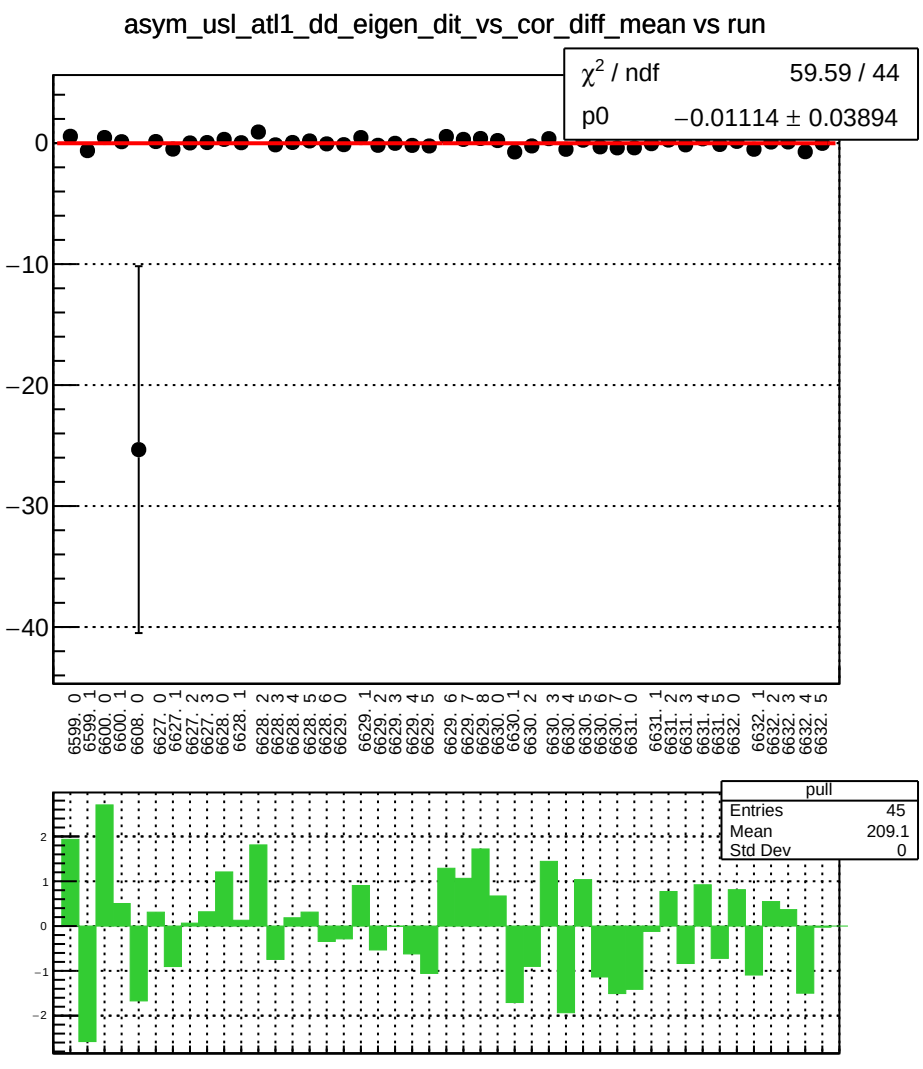
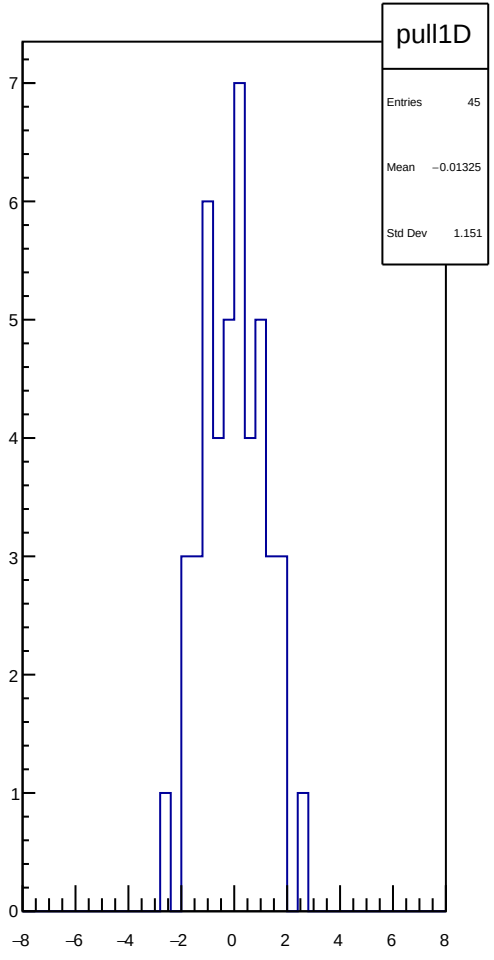
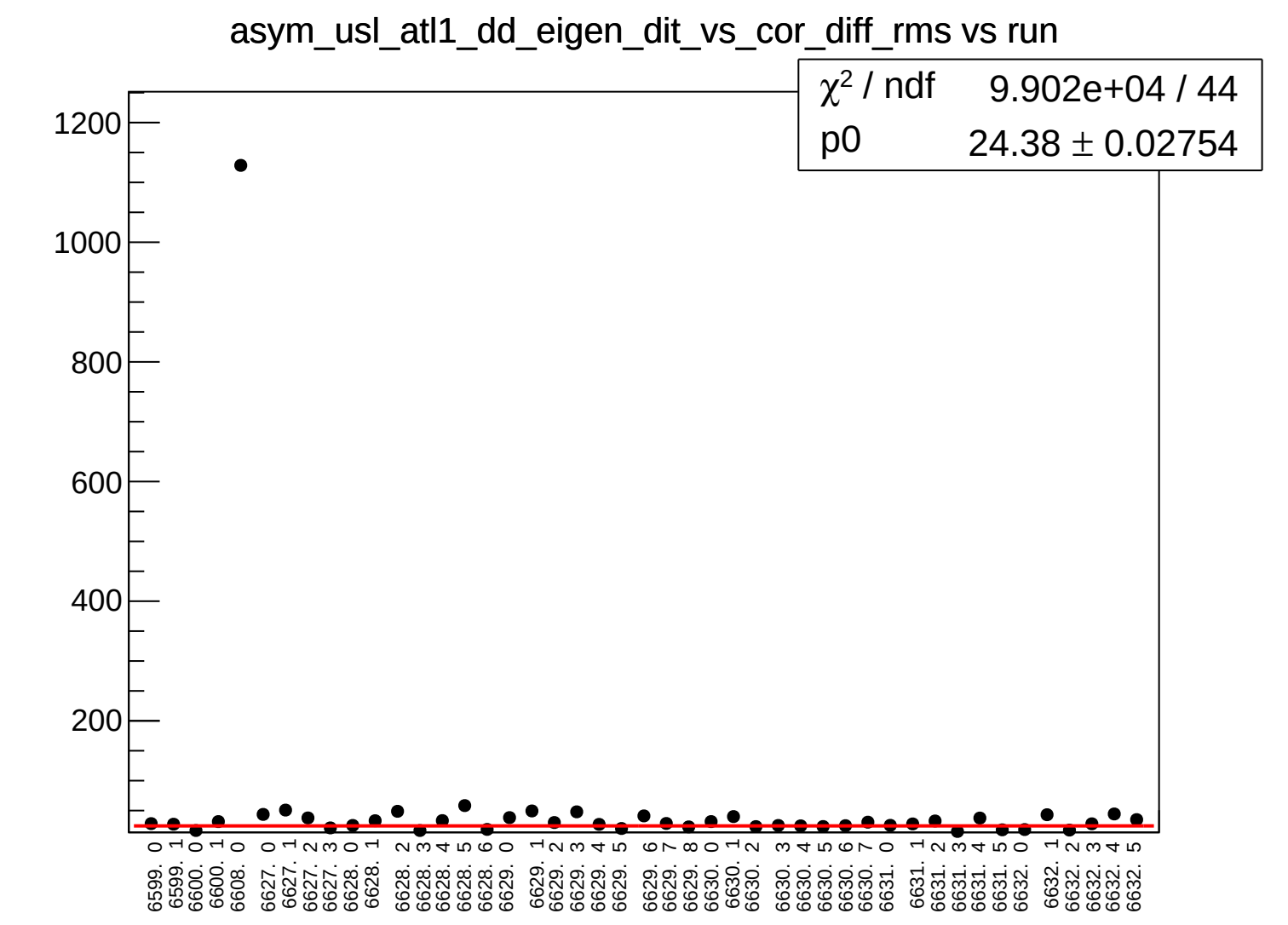
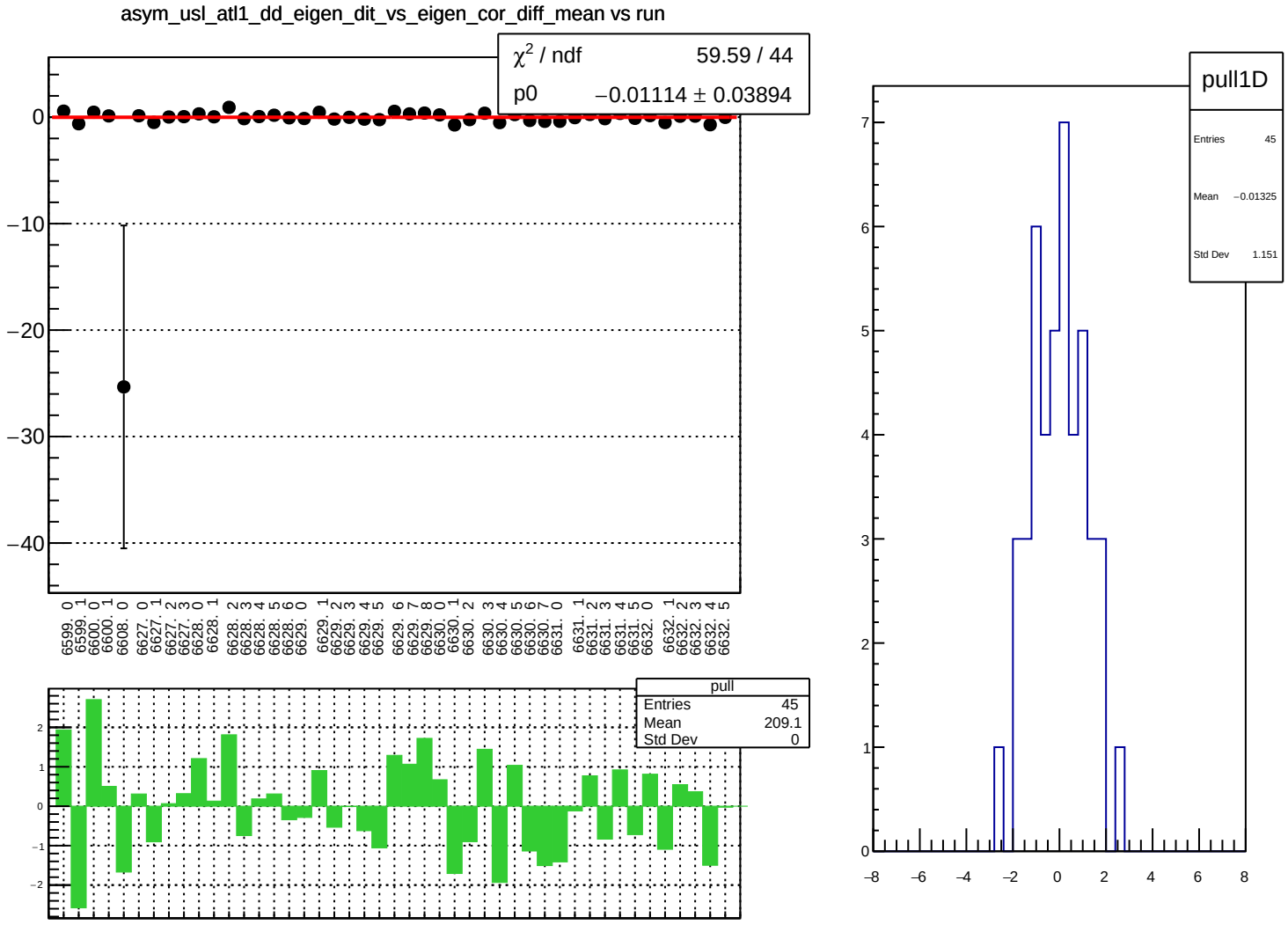
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 44
Mean 114.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 44
Mean 0.01364
Std Dev 0.8291
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

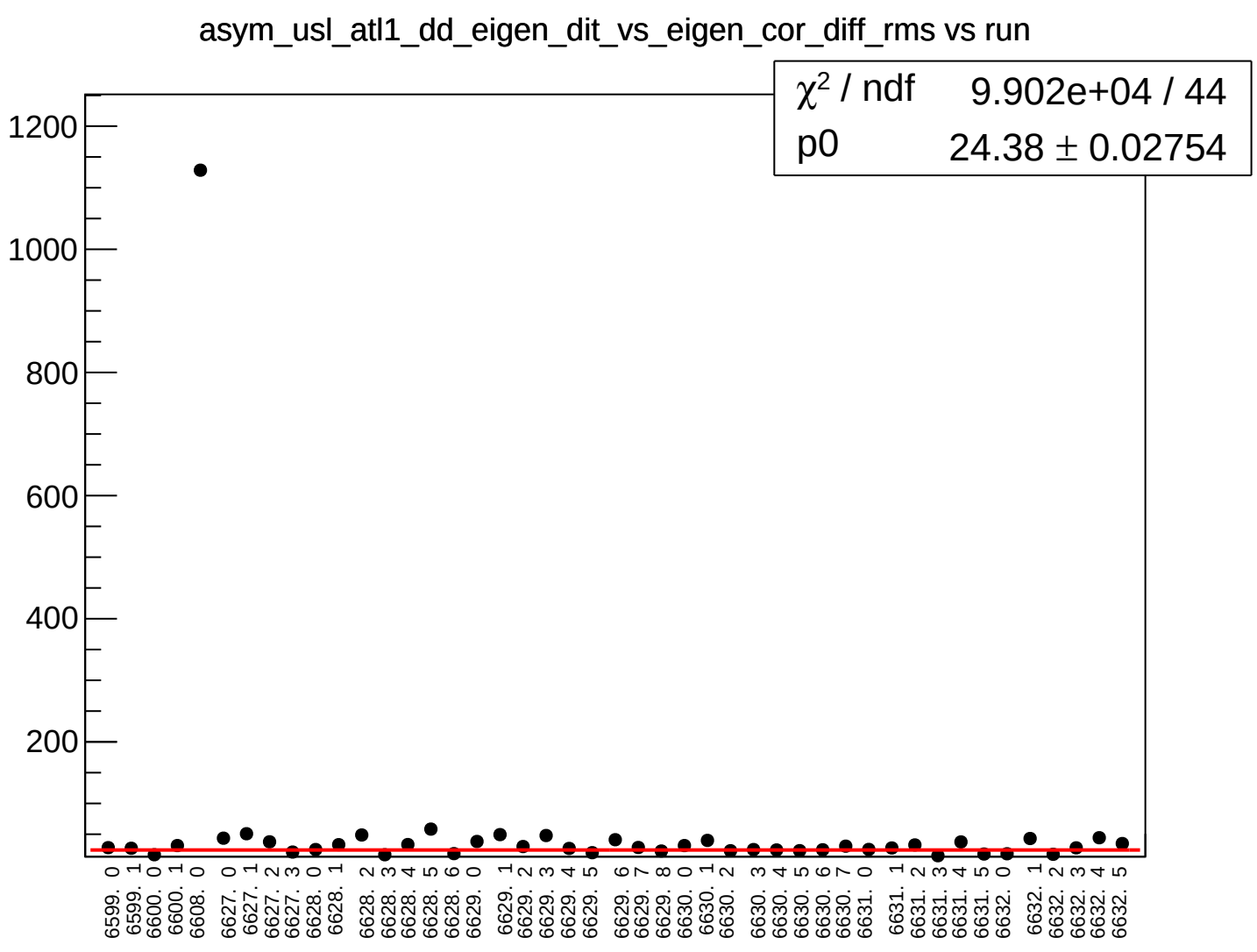

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.309e+05 / 43
p0 0.002478 ± 2.88e–06
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

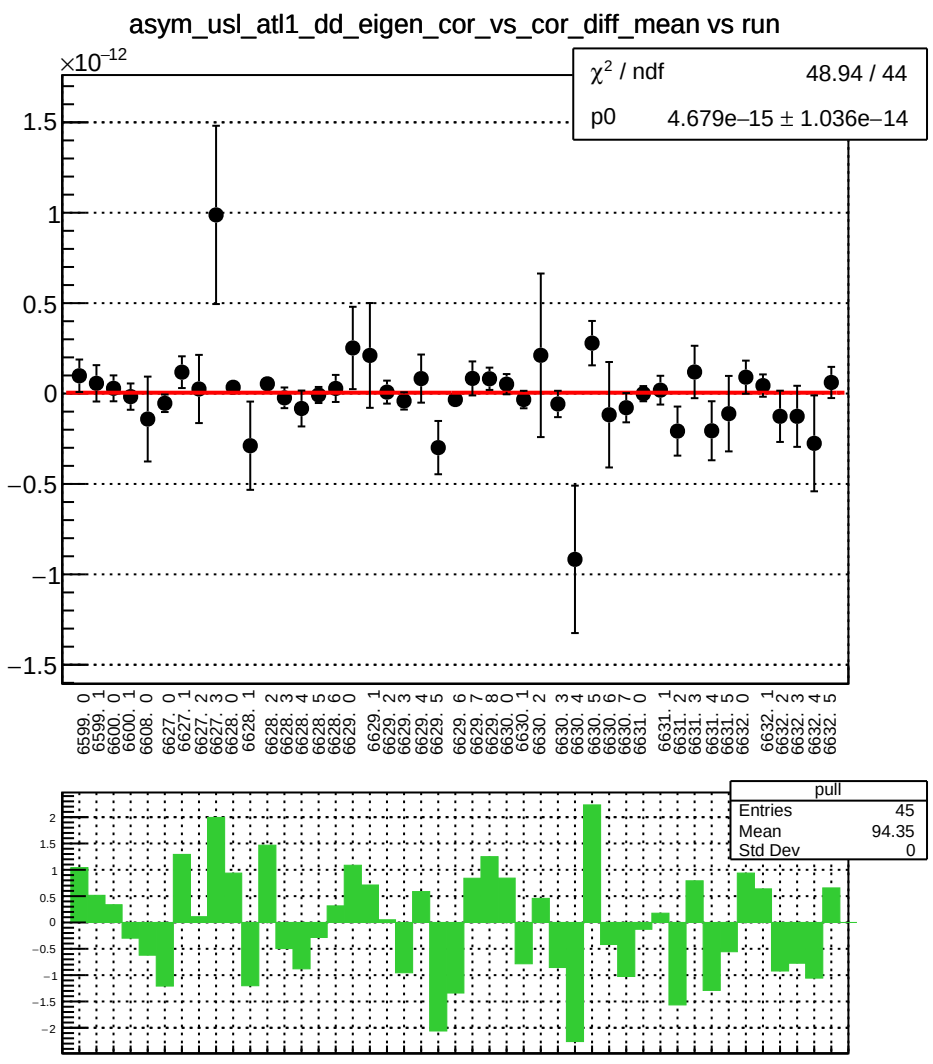

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 59.59 / 44
p0 −0.01114 ± 0.03894
0
−10
−20
−30
−40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 209.1
Std Dev 0
2
1
0
−1
−2

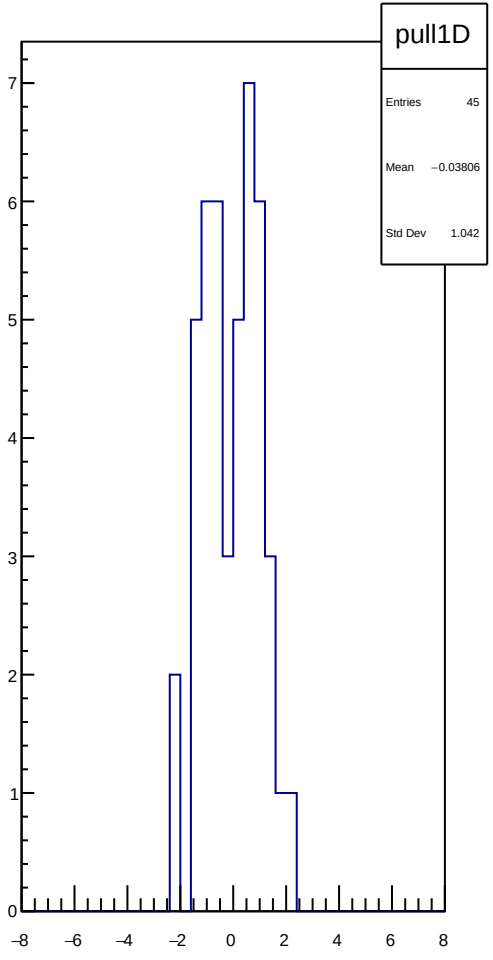

pull1D
Entries 45
Mean −0.01325
Std Dev 1.151
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

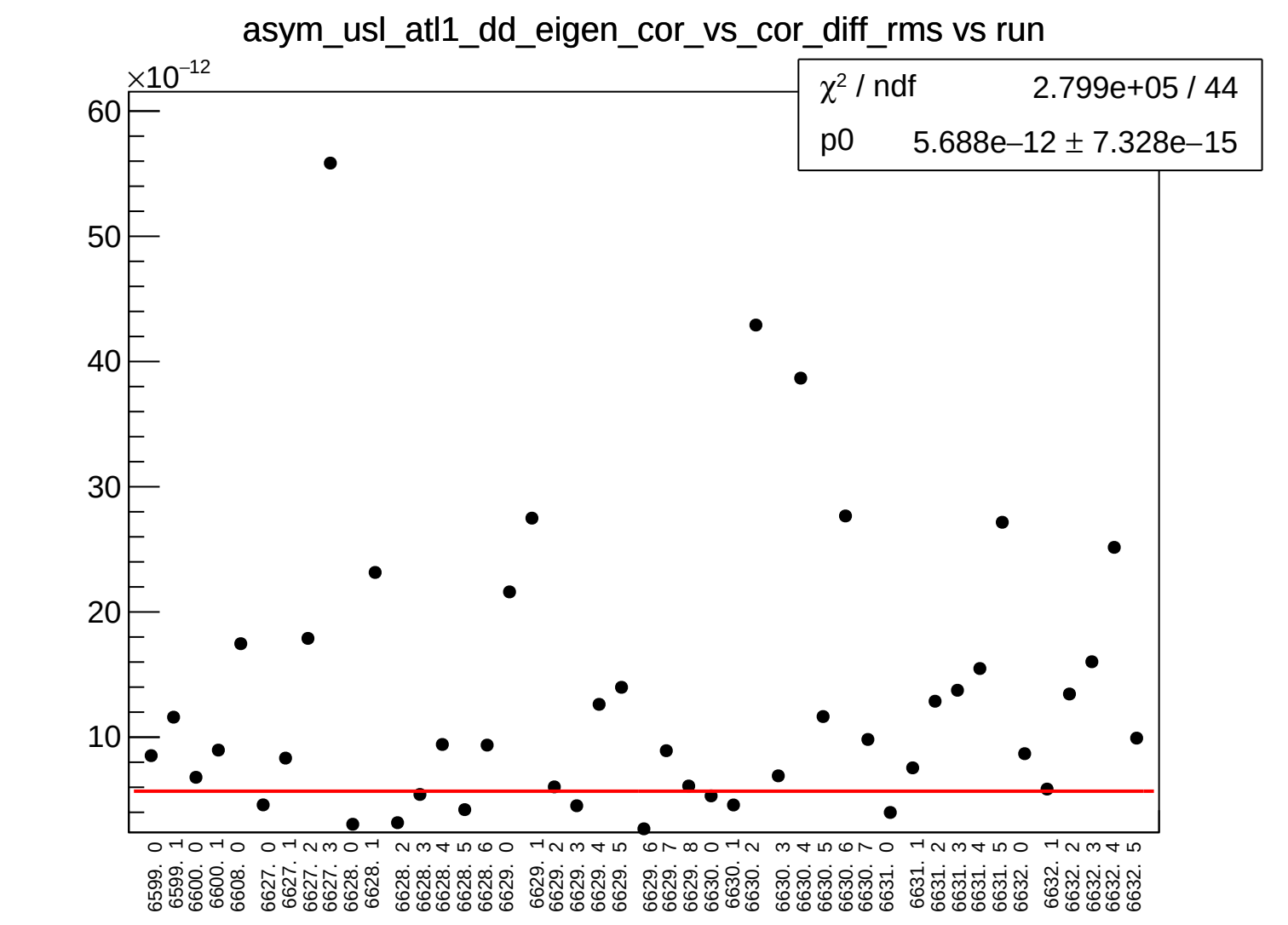

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.902e+04 / 44
p0 24.38 ± 0.02754
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

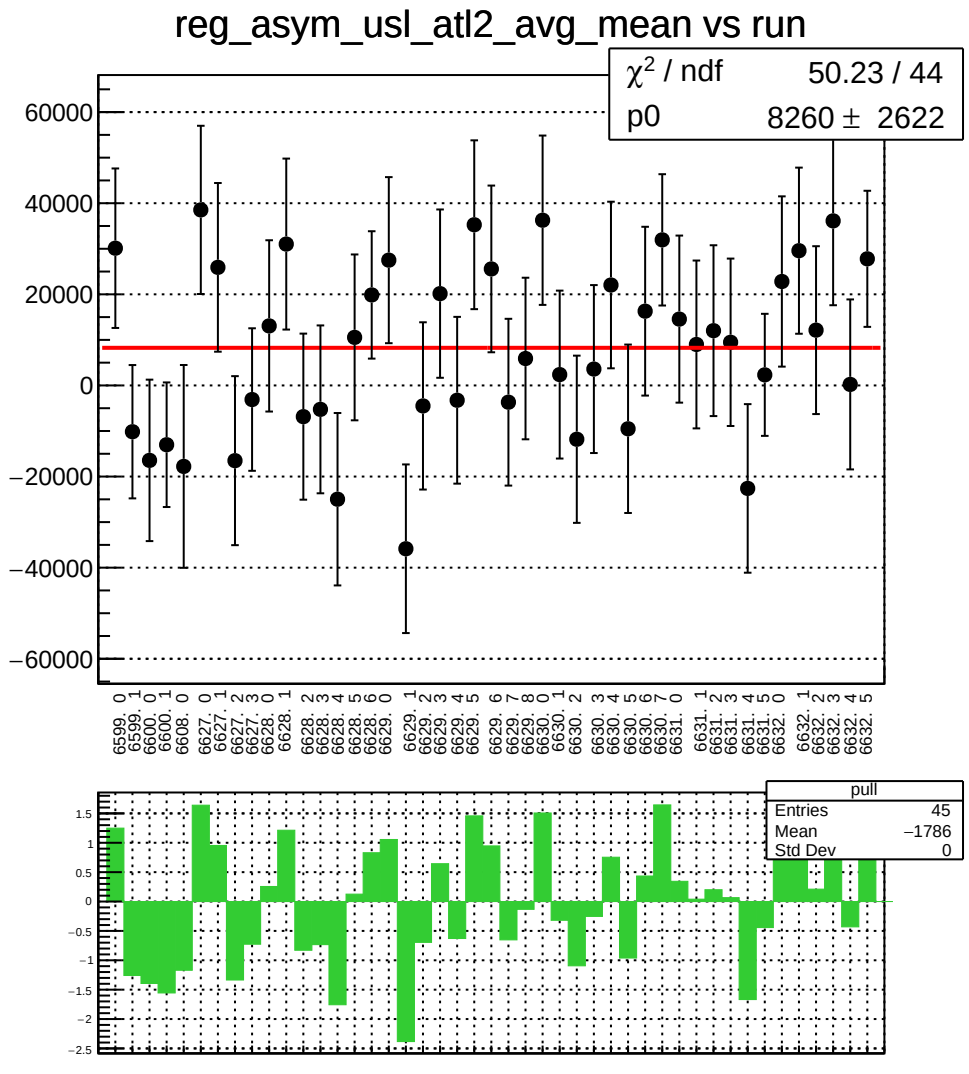

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 59.59 / 44
p0 −0.01114 ± 0.03894
0
−10
−20
−30
−40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 209.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01325
Std Dev 1.151
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

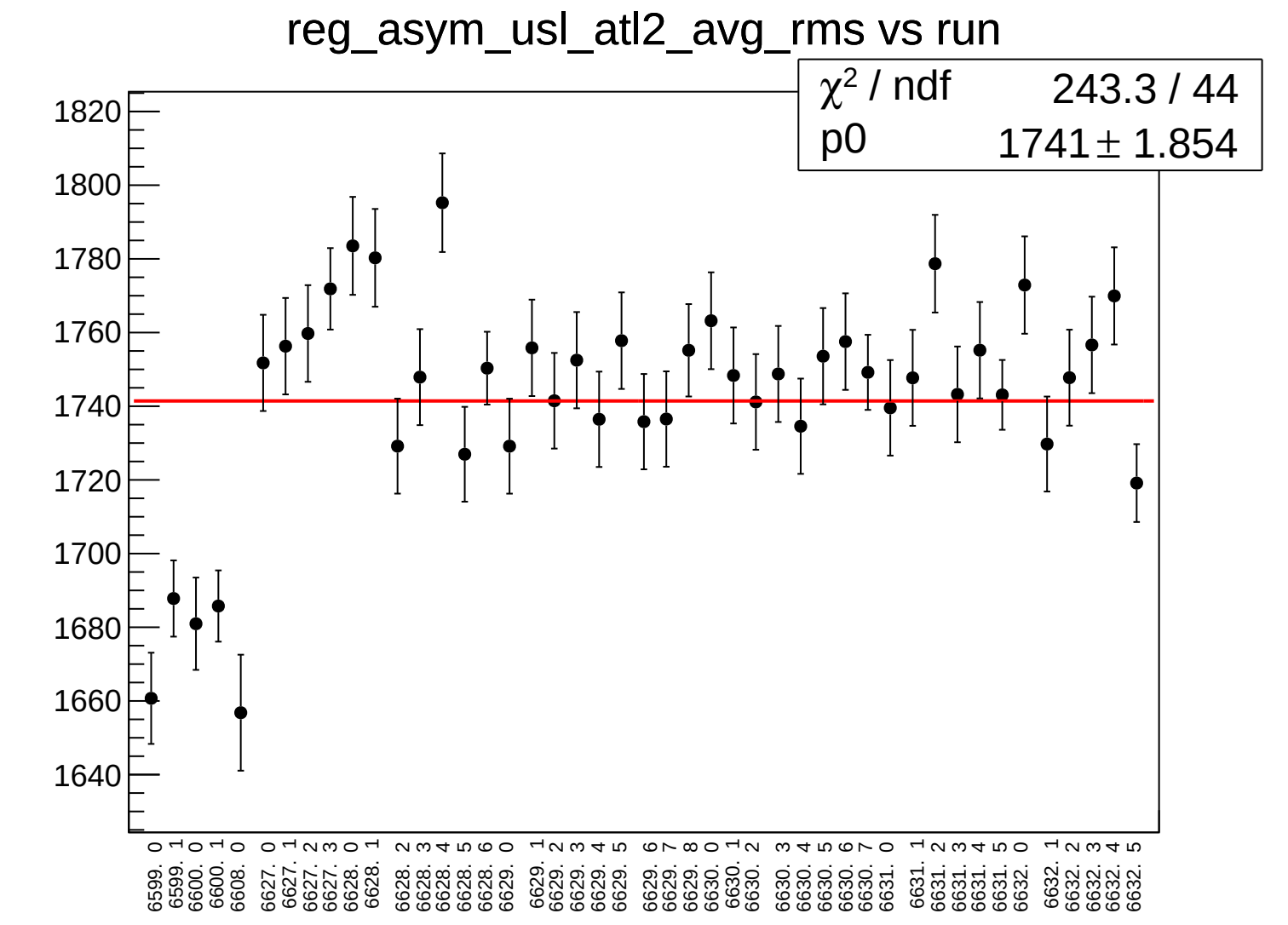

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.902e+04 / 44
p0 24.38 ± 0.02754
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

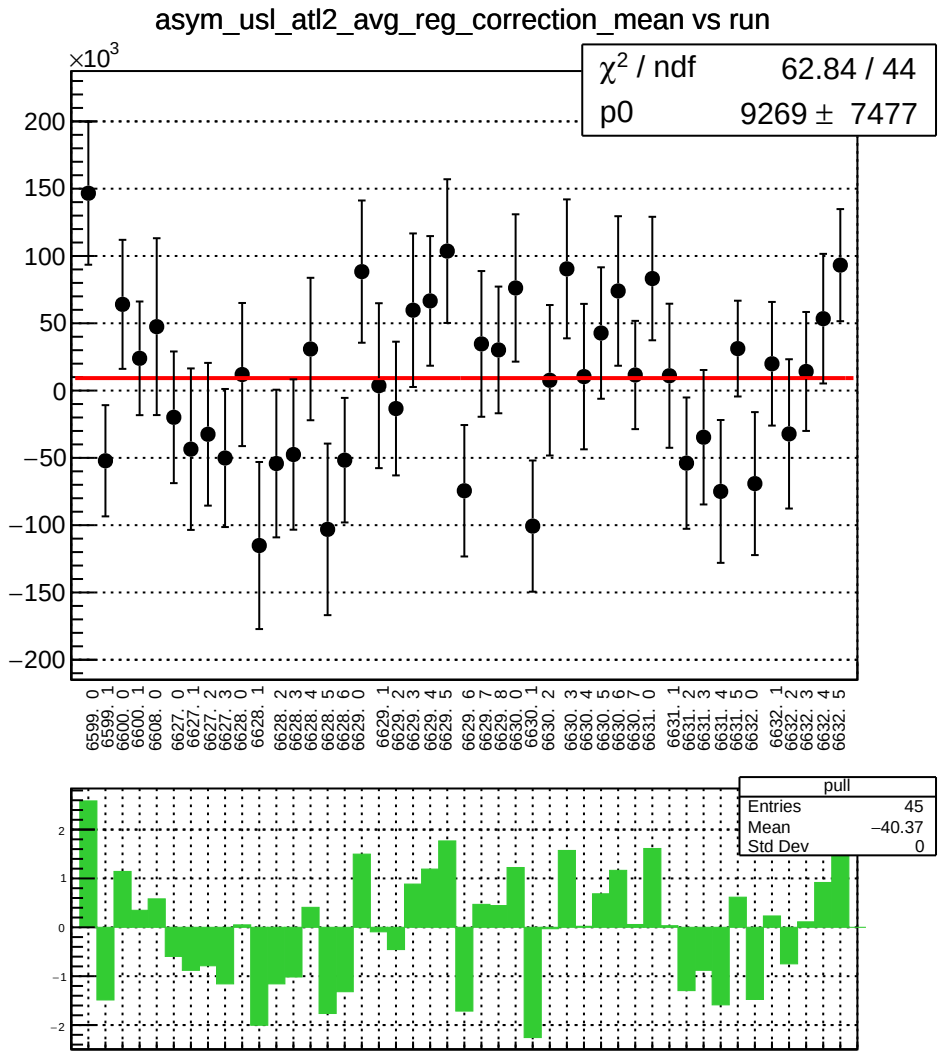

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 48.94 / 44
p0 4.679e−15 ± 1.036e−14
1.5
1
0.5
0
−0.5
−1
−1.5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 94.35
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

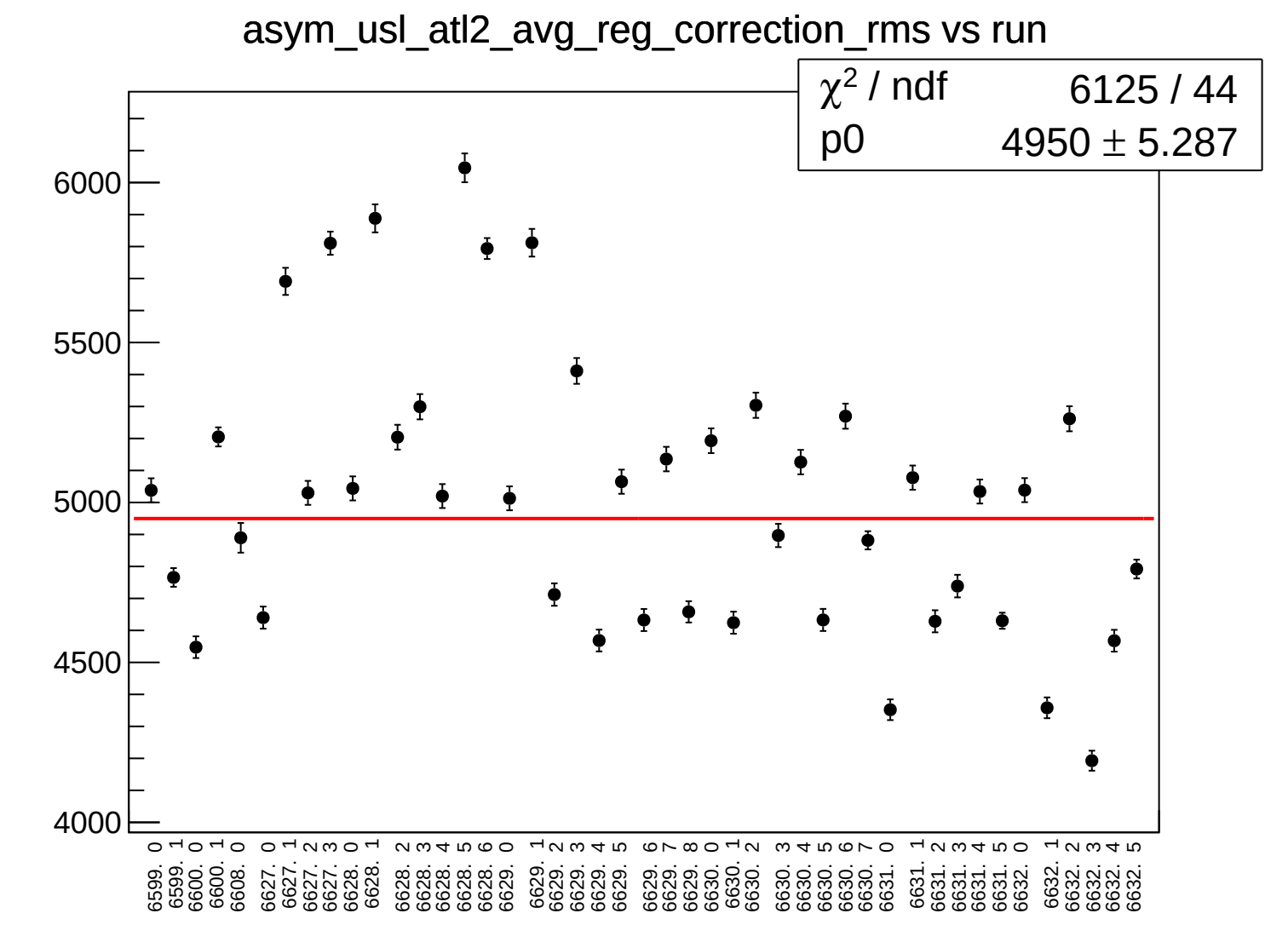

pull1D
Entries 45
Mean −0.03806
Std Dev 1.042
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

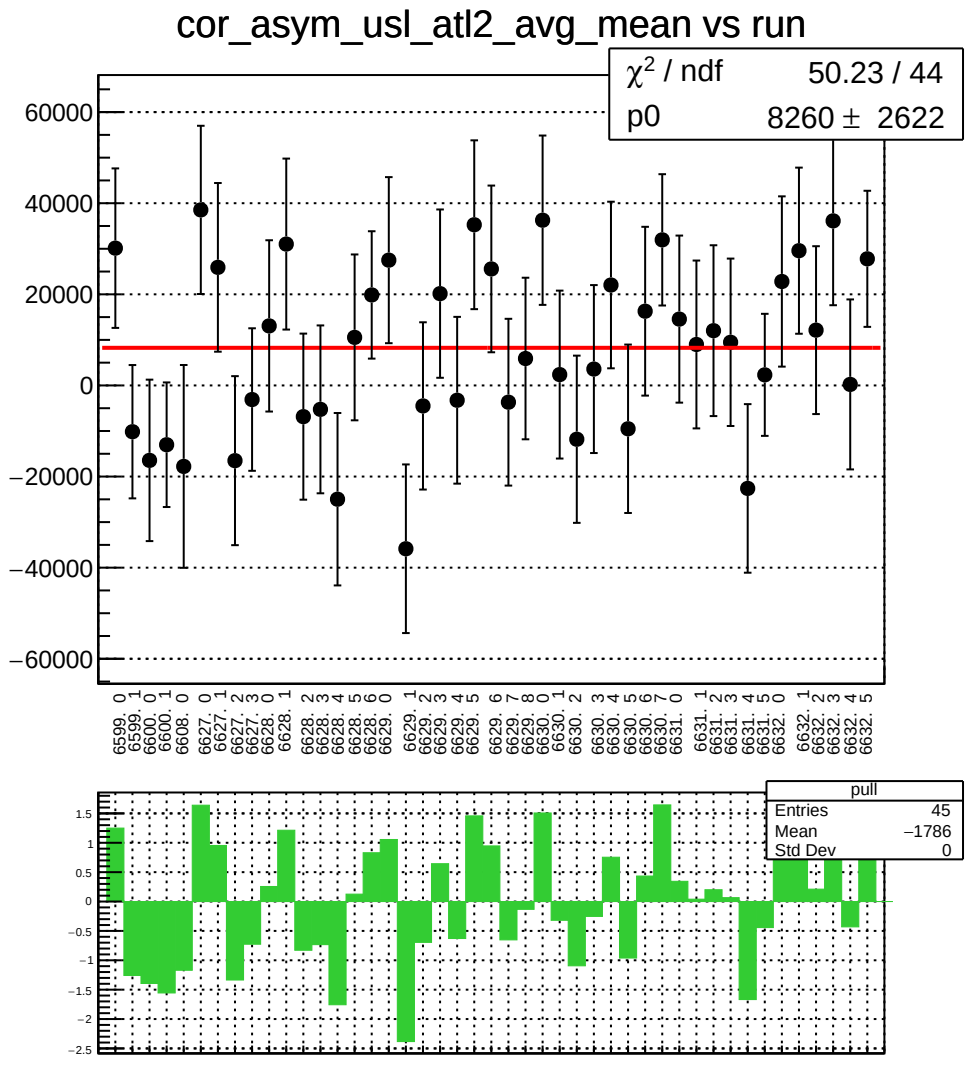

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10^−12
χ² / ndf 2.799e+05 / 44
p0 5.688e−12 ± 7.328e−15
60
50
40
30
20
10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

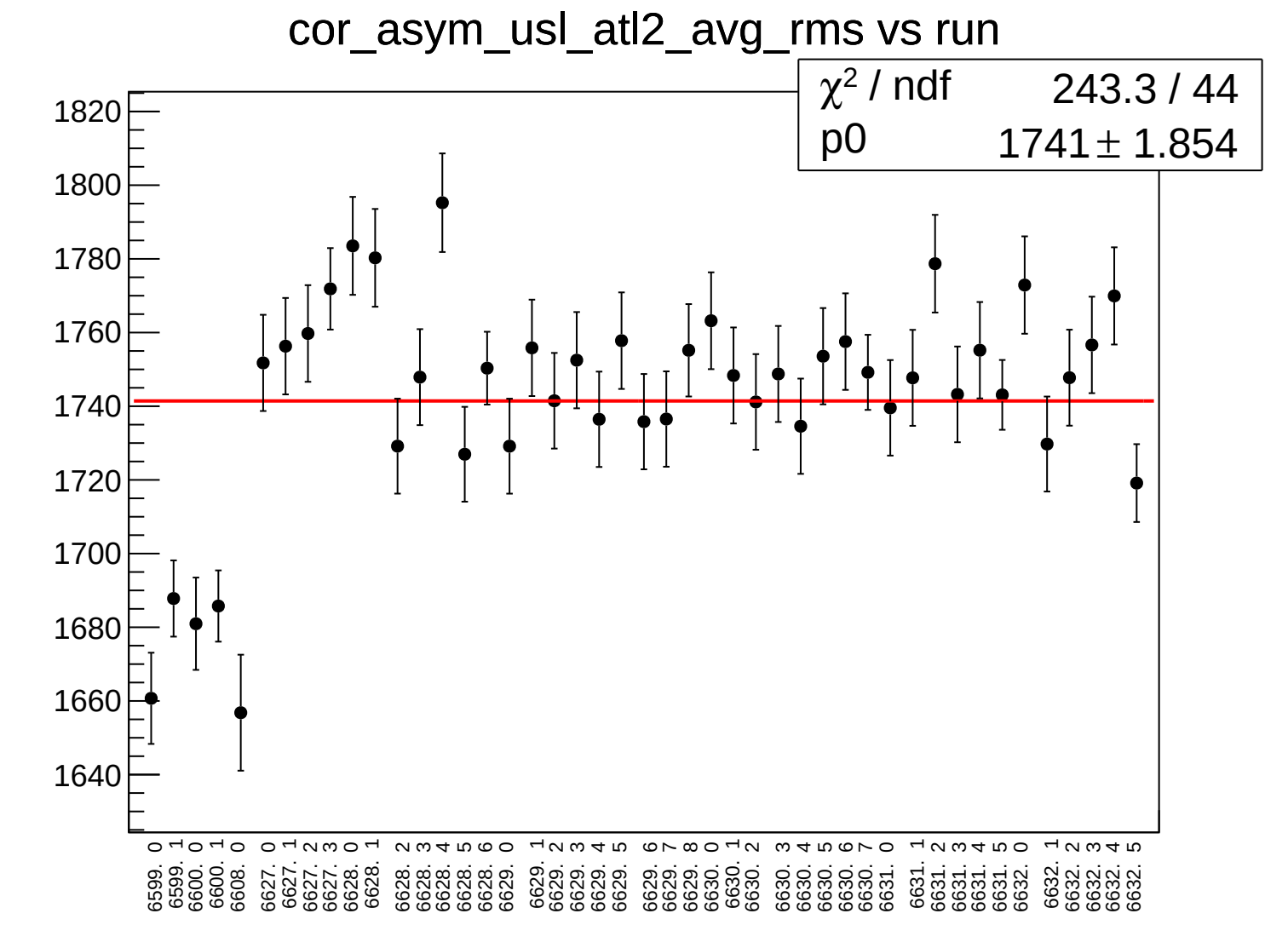

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 50.23 / 44
p0 8260 ± 2622
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −1786
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.001909
Std Dev 1.056
7
6
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 243.3 / 44
p0 1741 ± 1.854
1820
1800
1780
1760
1740
1720
1700
1680
1660
1640
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 62.84 / 44
p0 9269 ± 7477
200
150
100
50
0
−50
−100
−150
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −40.37
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.0236
Std Dev 1.181
7
6
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 6125 / 44
p0 4950 ± 5.287
6000
5500
5000
4500
4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 50.23 / 44
p0 8260 ± 2622
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −1786
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.001909
Std Dev 1.057
7
6
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 243.3 / 44
p0 1741 ± 1.854
1820
1800
1780
1760
1740
1720
1700
1680
1660
1640
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
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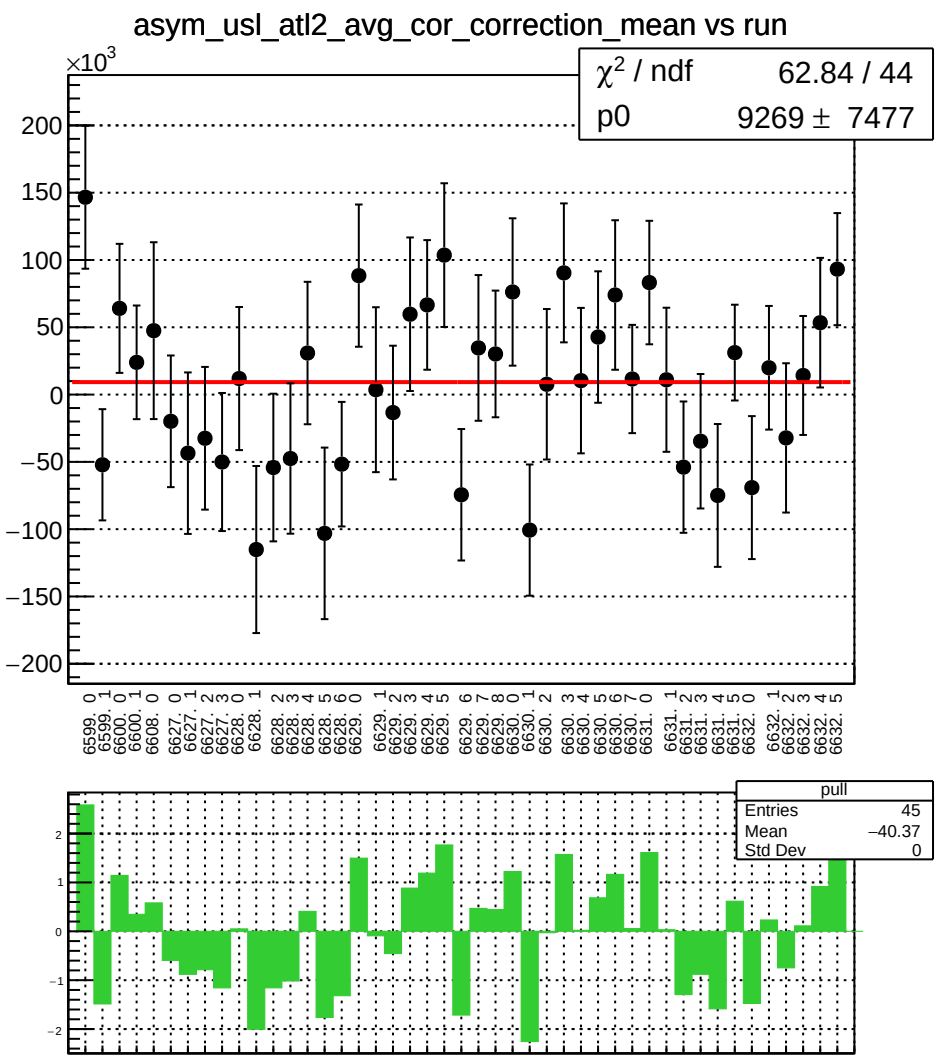
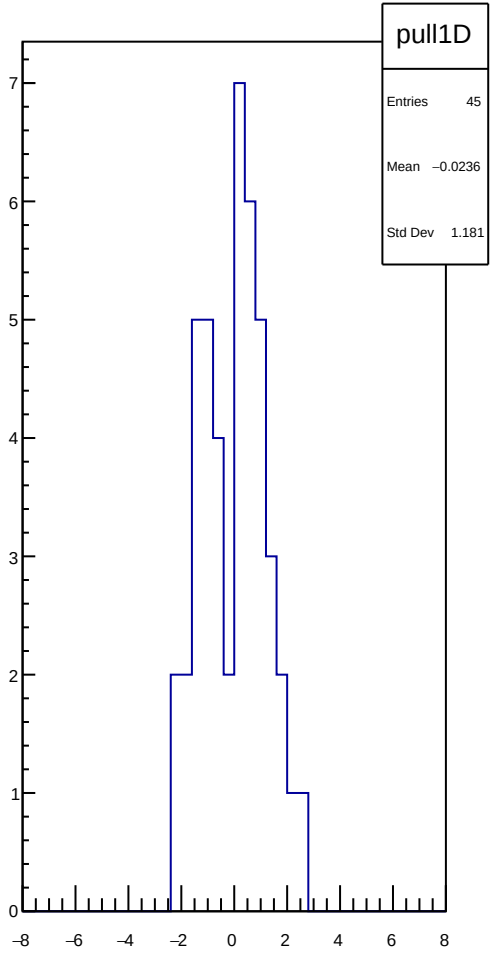
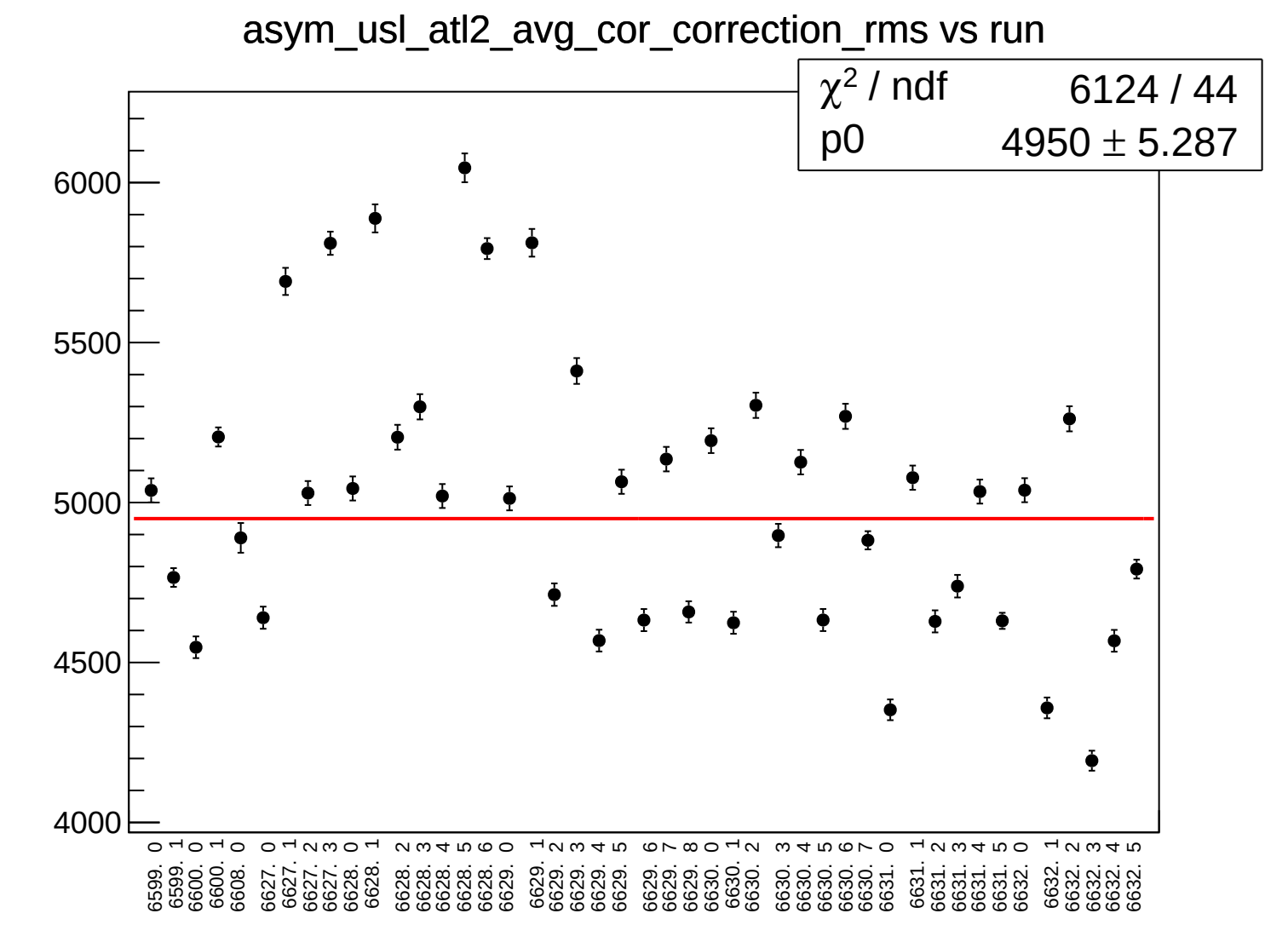
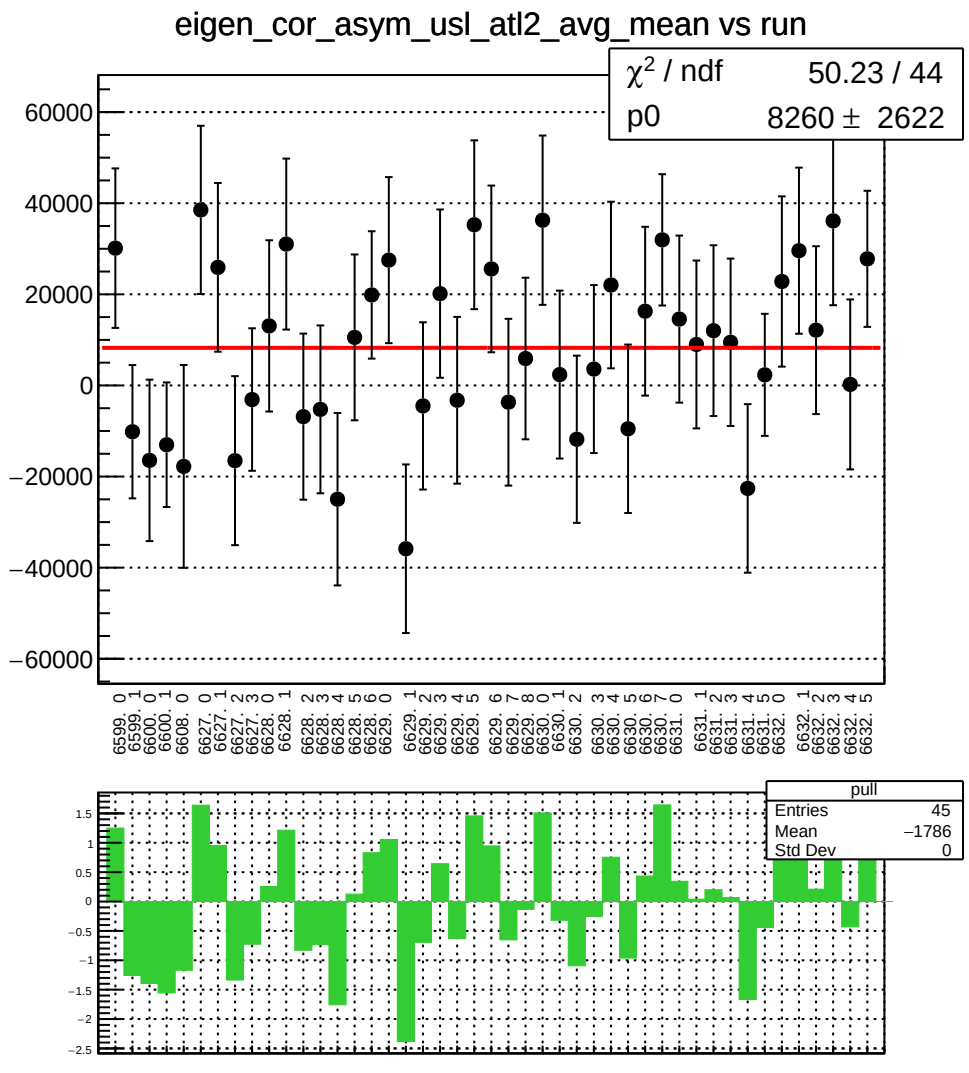
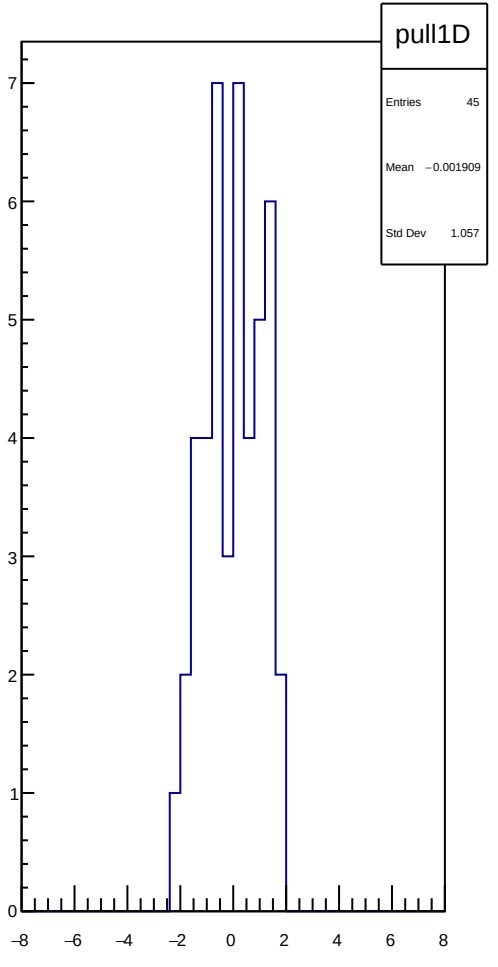
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

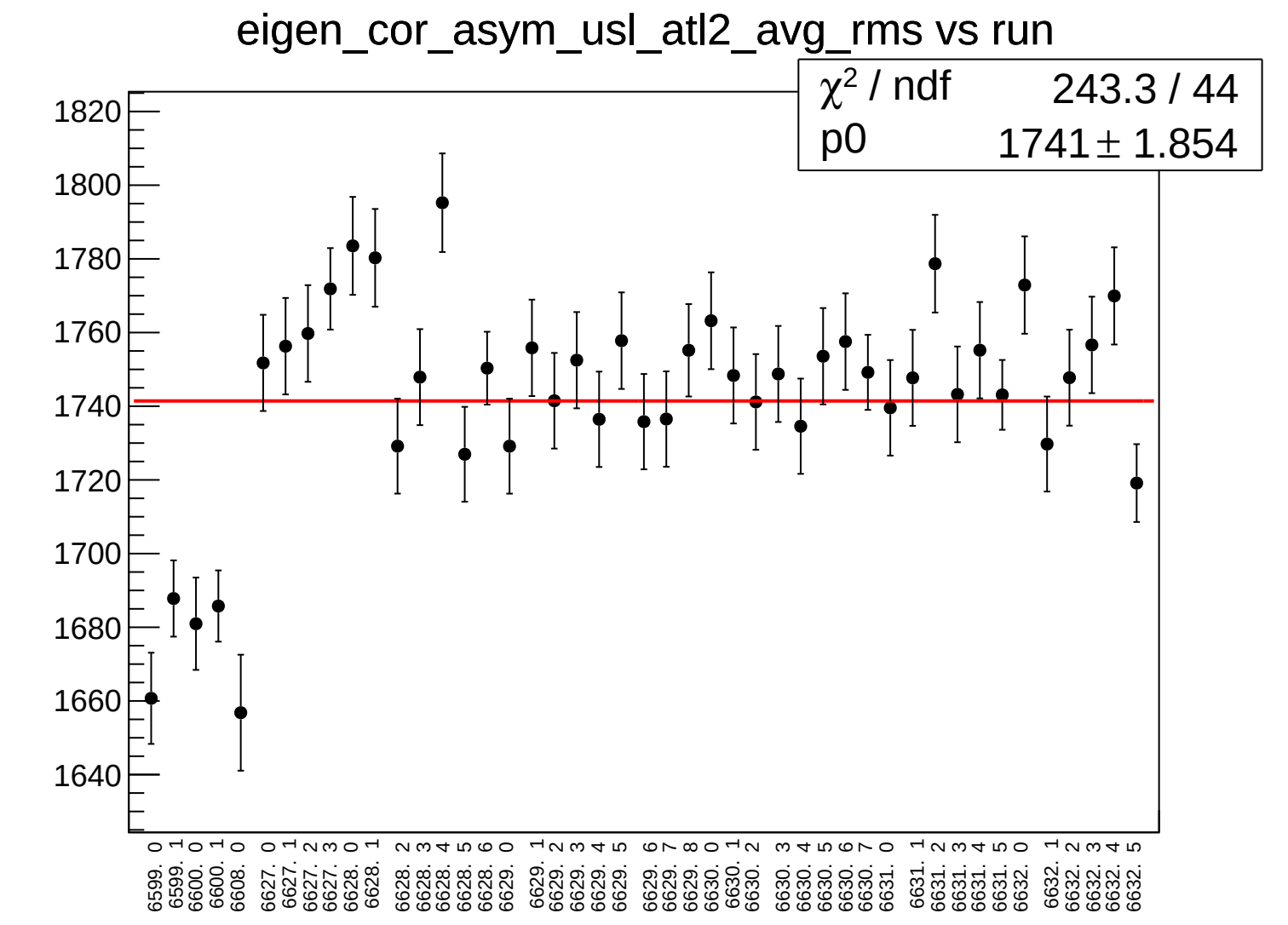

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 62.84 / 44
p0 9269 ± 7477
200
150
100
50
0
−50
−100
−150
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −40.37
Std Dev 0
2
1
0
−1
−2

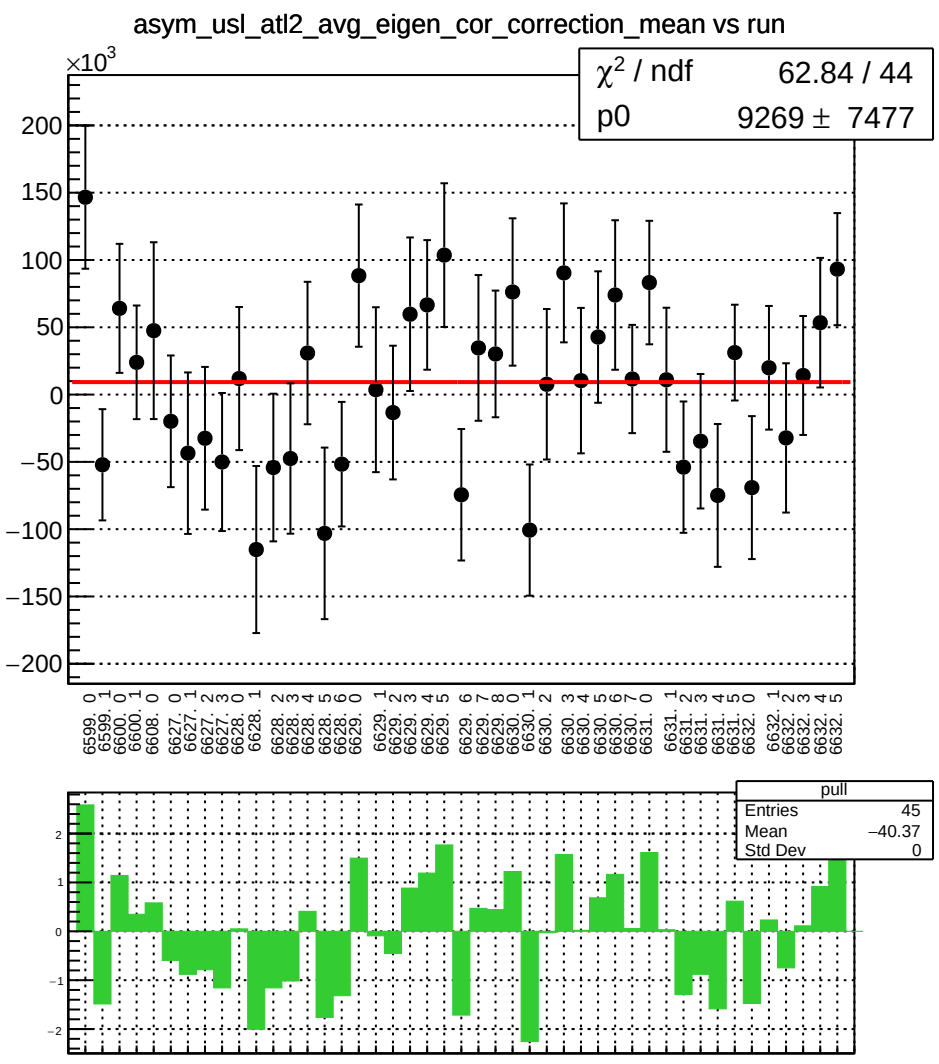

pull1D
Entries 45
Mean −0.0236
Std Dev 1.181
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

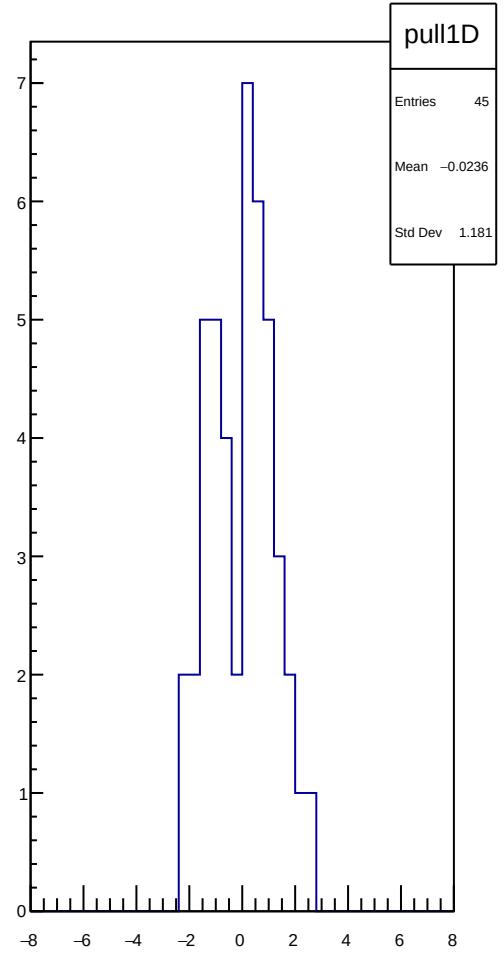

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 6124 / 44
p0 4950 ± 5.287
6000
5500
5000
4500
4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

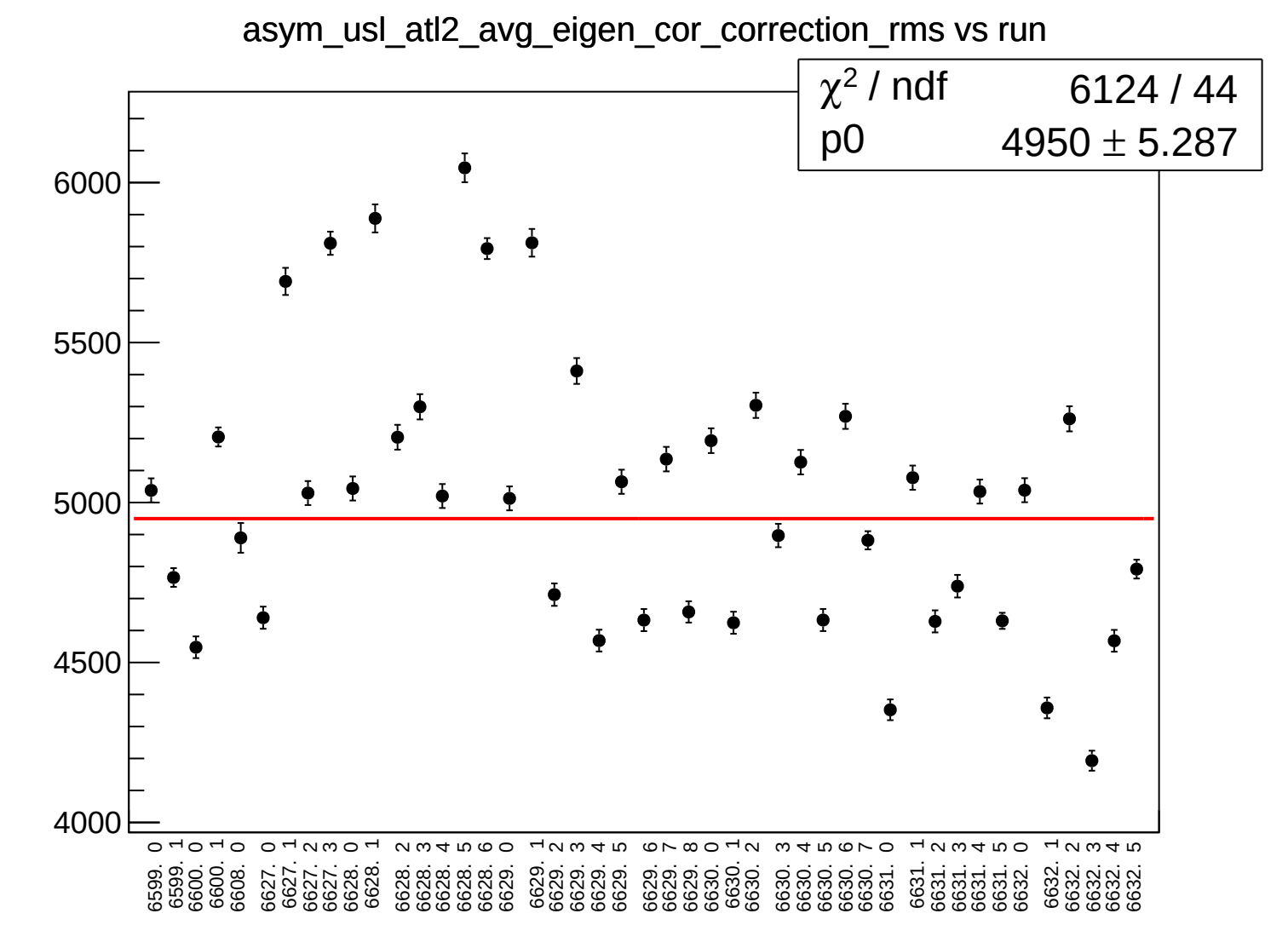

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 50.23 / 44
p0 8260 ± 2622
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −1786
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

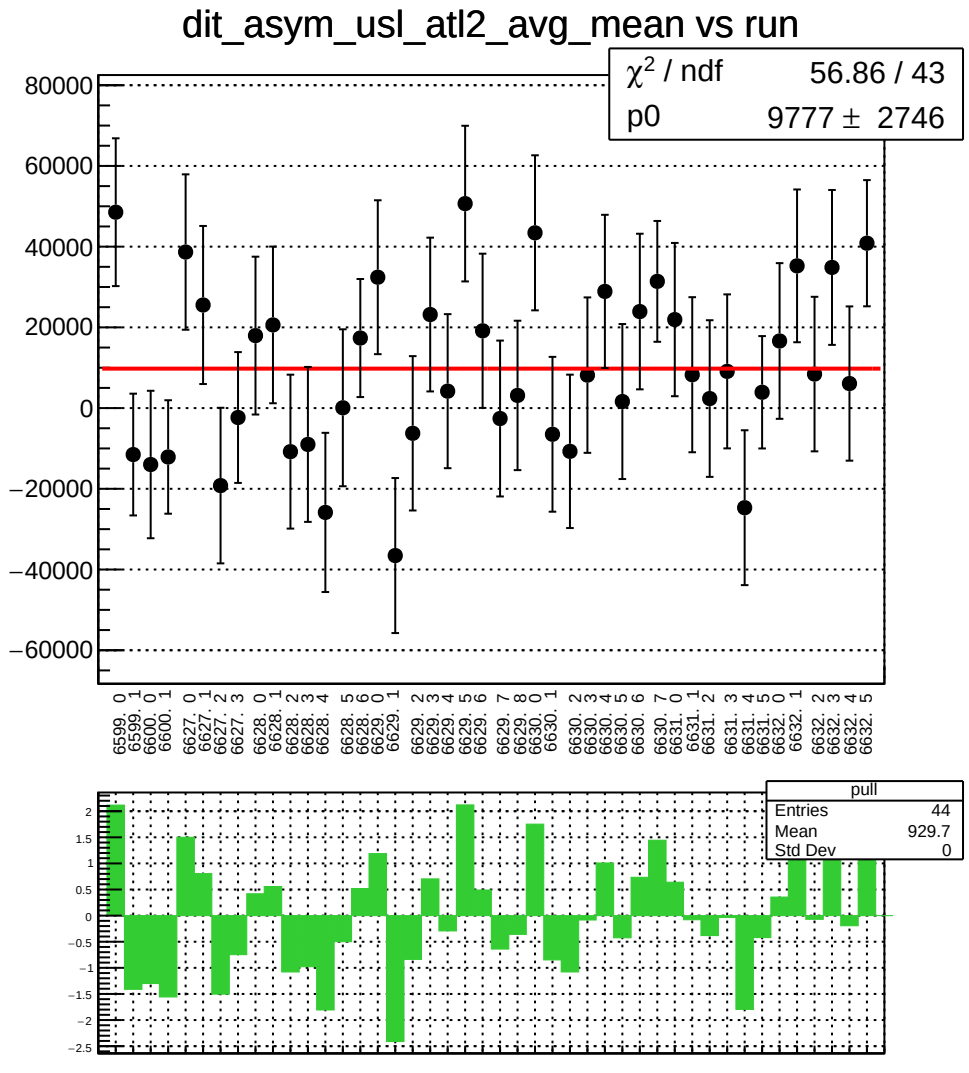

pull1D
Entries 45
Mean −0.001909
Std Dev 1.057
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

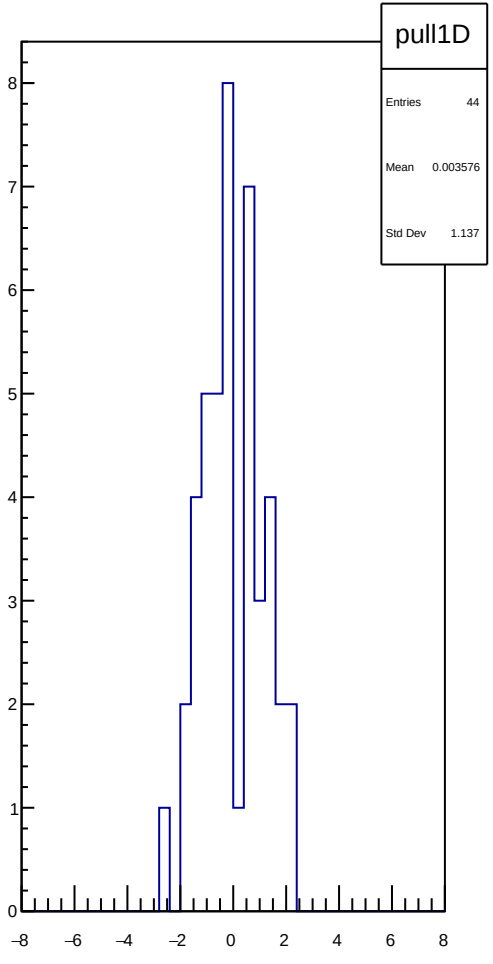

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 243.3 / 44
p0 1741 ± 1.854
1820
1800
1780
1760
1740
1720
1700
1680
1660
1640
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

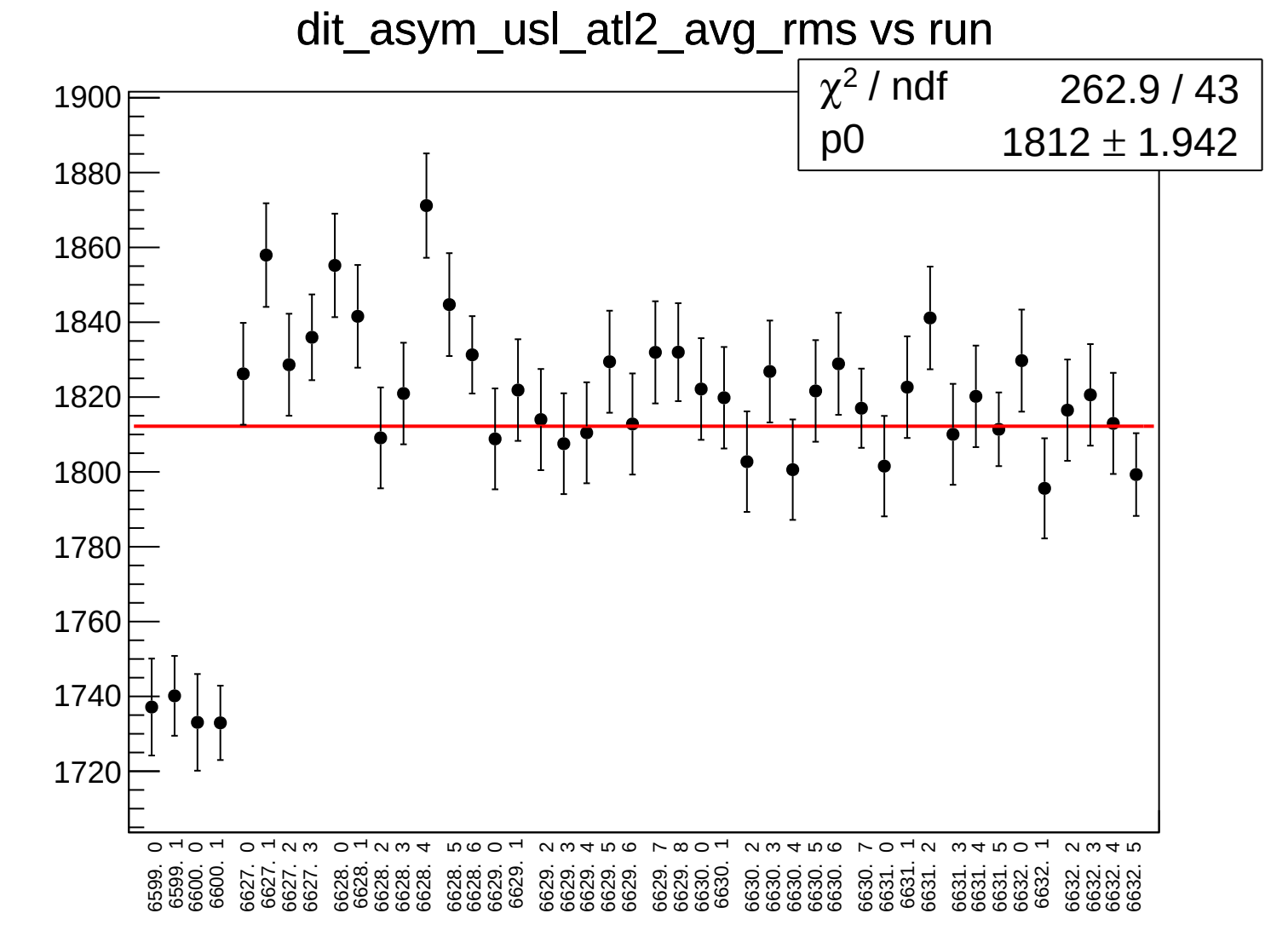

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 62.84 / 44
p0 9269 ± 7477
200
150
100
50
0
−50
−100
−150
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −40.37
Std Dev 0
2
1
0
−1
−2

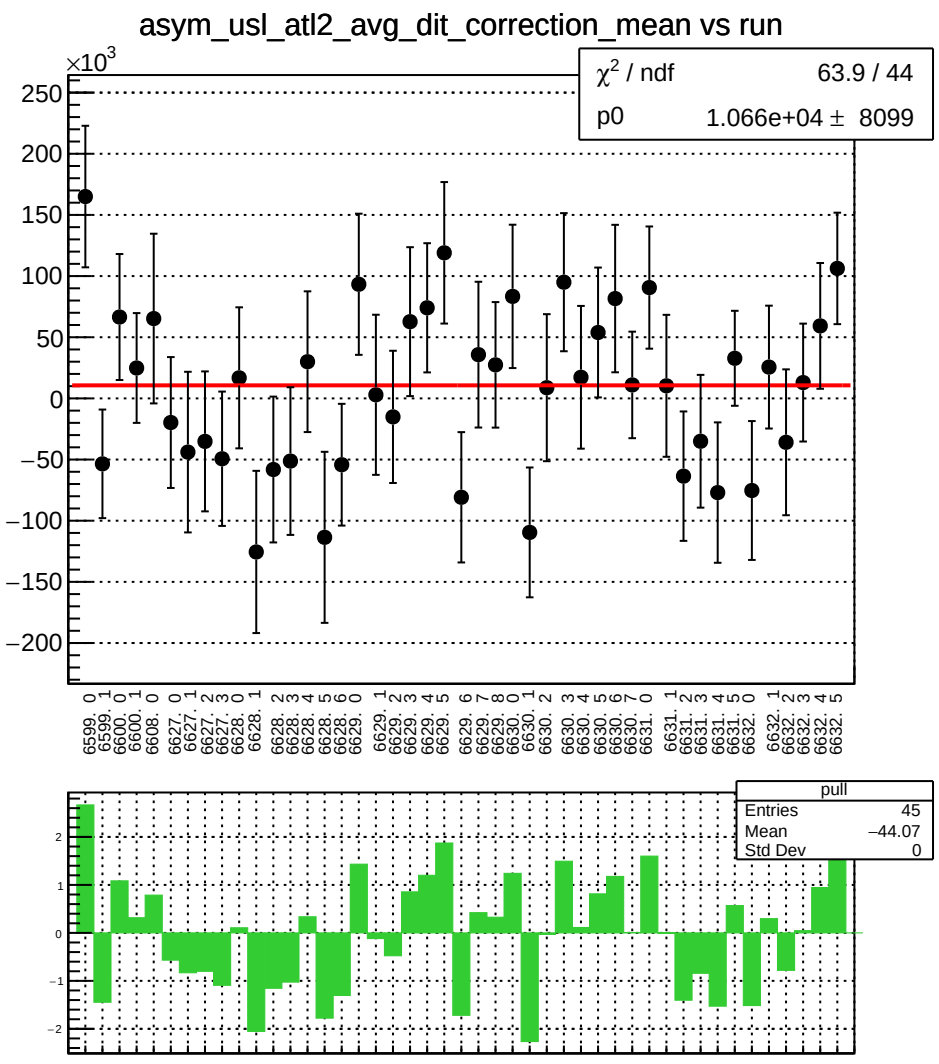

pull1D
Entries 45
Mean −0.0236
Std Dev 1.181
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

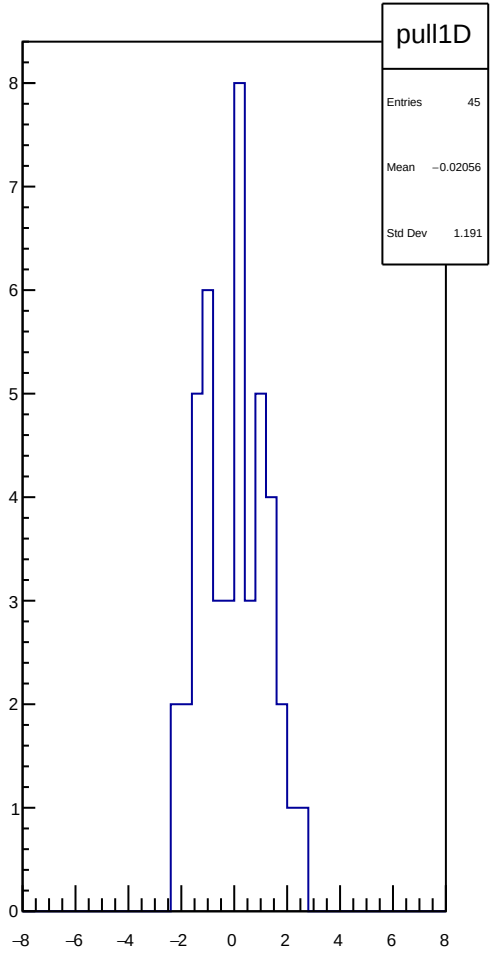

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 6124 / 44
p0 4950 ± 5.287
6000
5500
5000
4500
4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

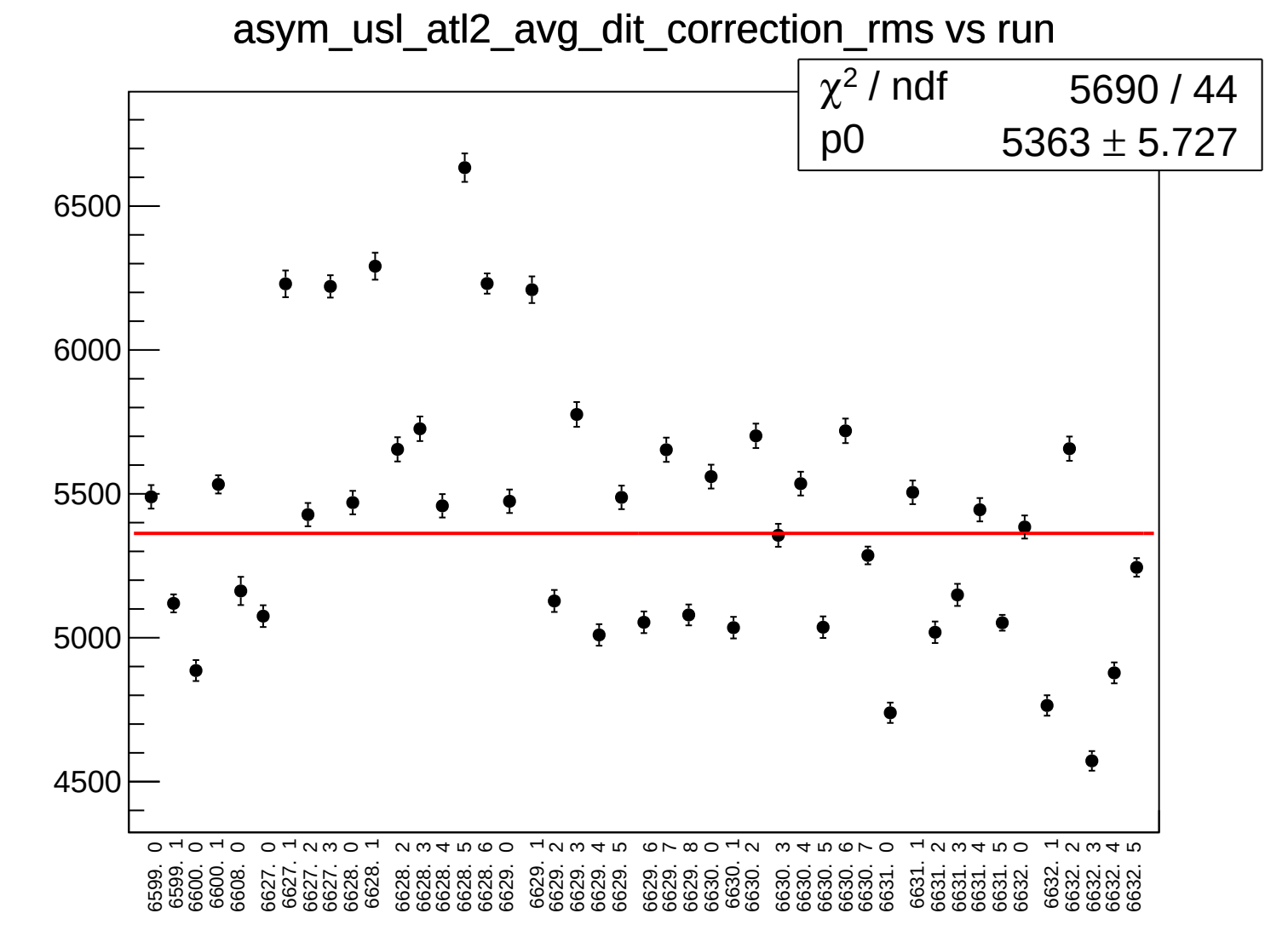

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 56.86 / 43
p0 9777 ± 2746
80000
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 44
Mean 929.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

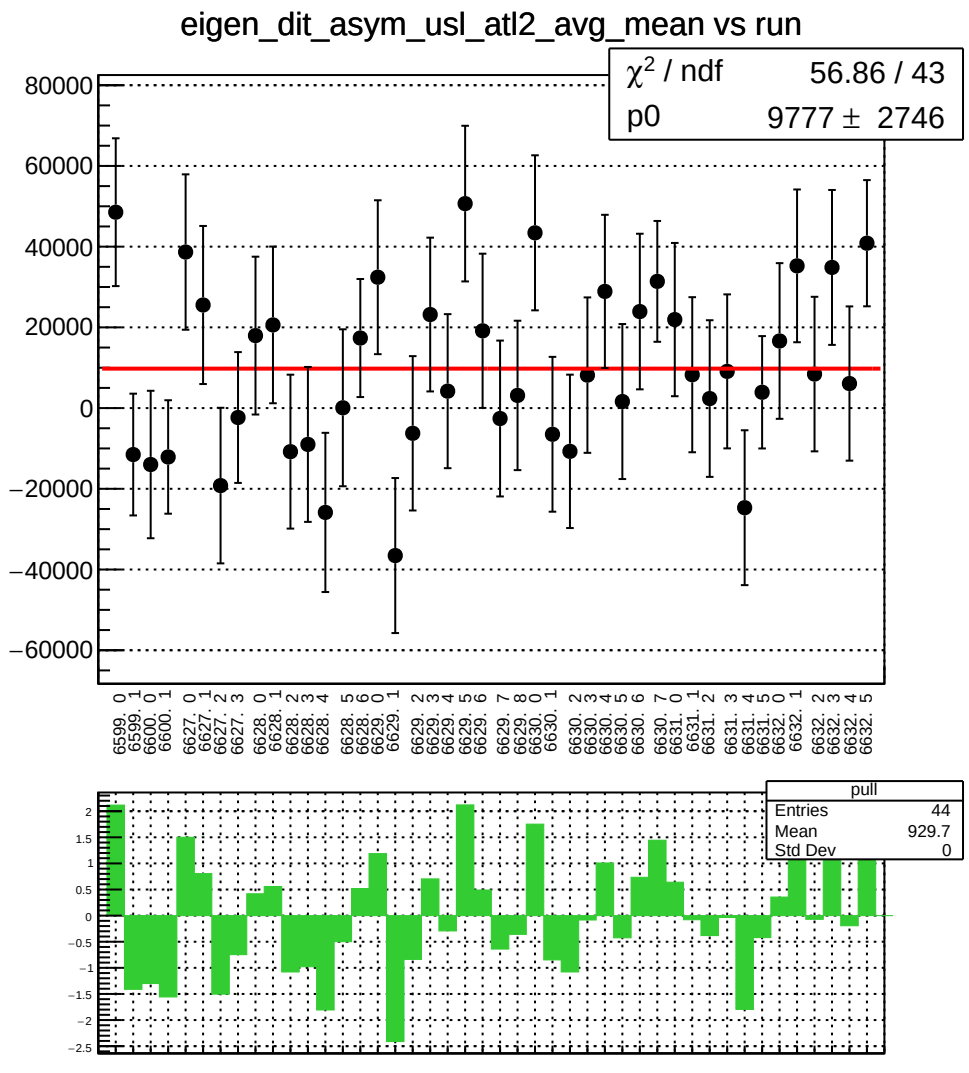

pull1D
Entries 44
Mean 0.003576
Std Dev 1.137
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 262.9 / 43
p0 1812 ± 1.942
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 63.9 / 44
p0 1.066e+04 ± 8099
250
200
150
100
50
0
−50
−100
−150
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −44.07
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.02056
Std Dev 1.191
8
7
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 5690 / 44
p0 5363 ± 5.727
6500
6000
5500
5000
4500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 56.86 / 43
p0 9777 ± 2746
80000
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
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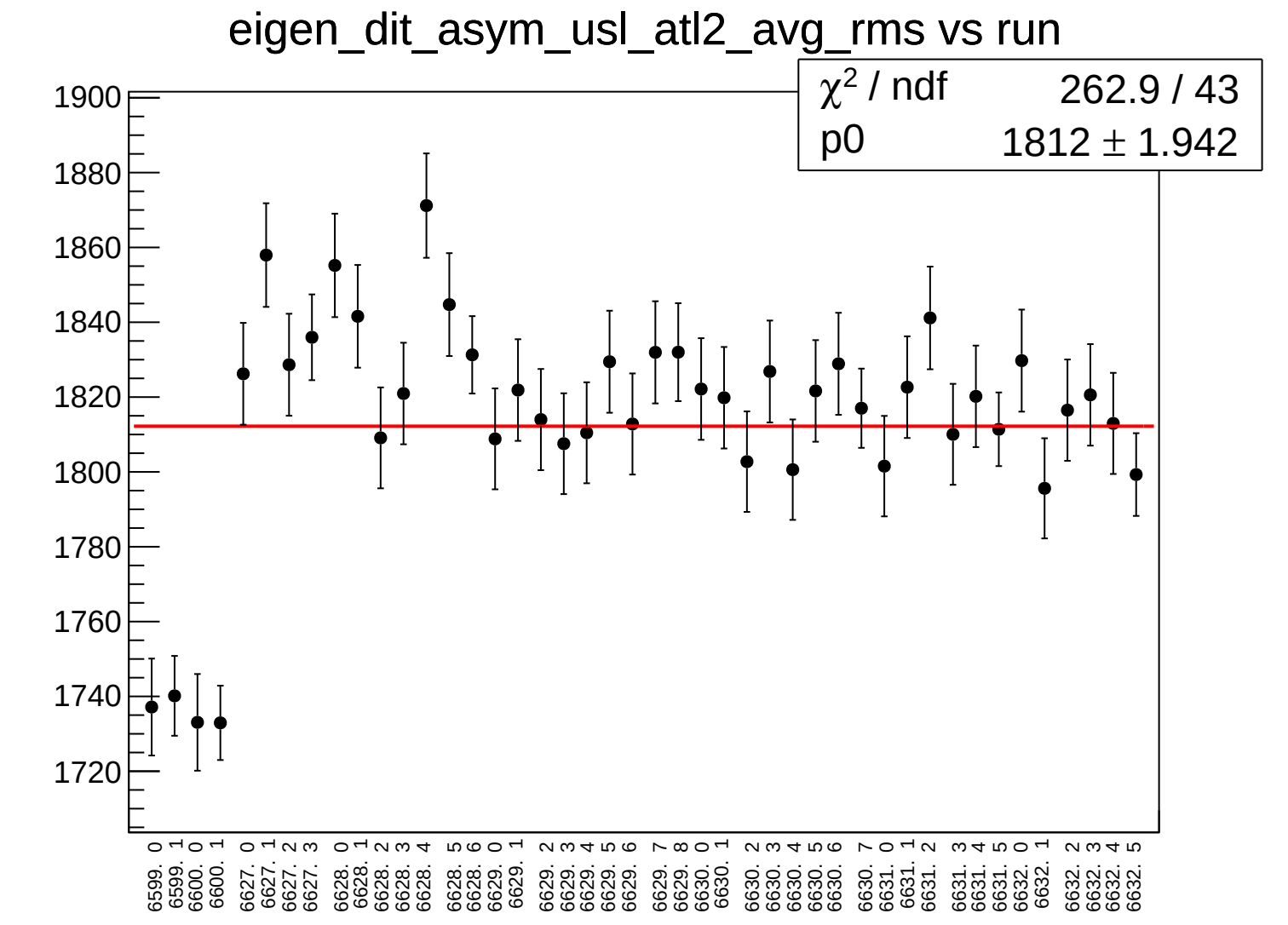
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 44
Mean 929.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 44
Mean 0.003576
Std Dev 1.137
8
7
6
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 262.9 / 43
p0 1812 ± 1.942
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
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6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
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6632. 2
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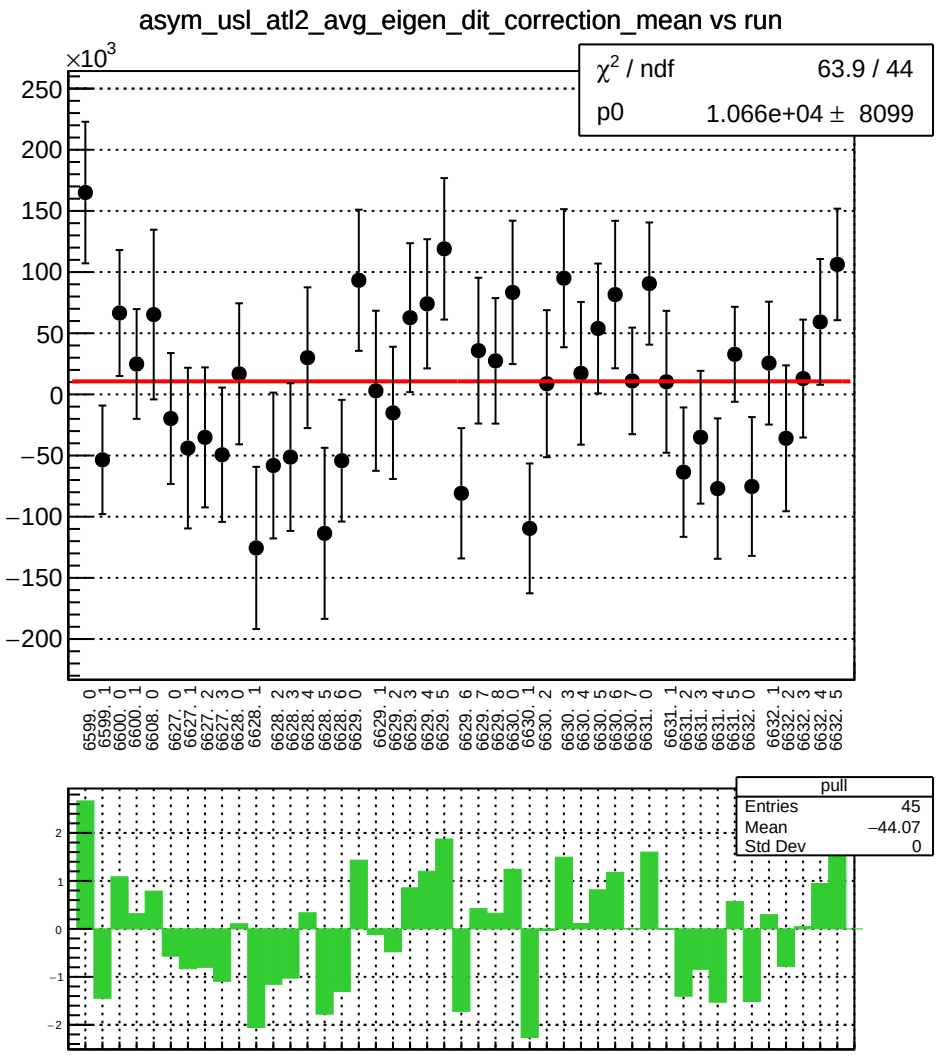
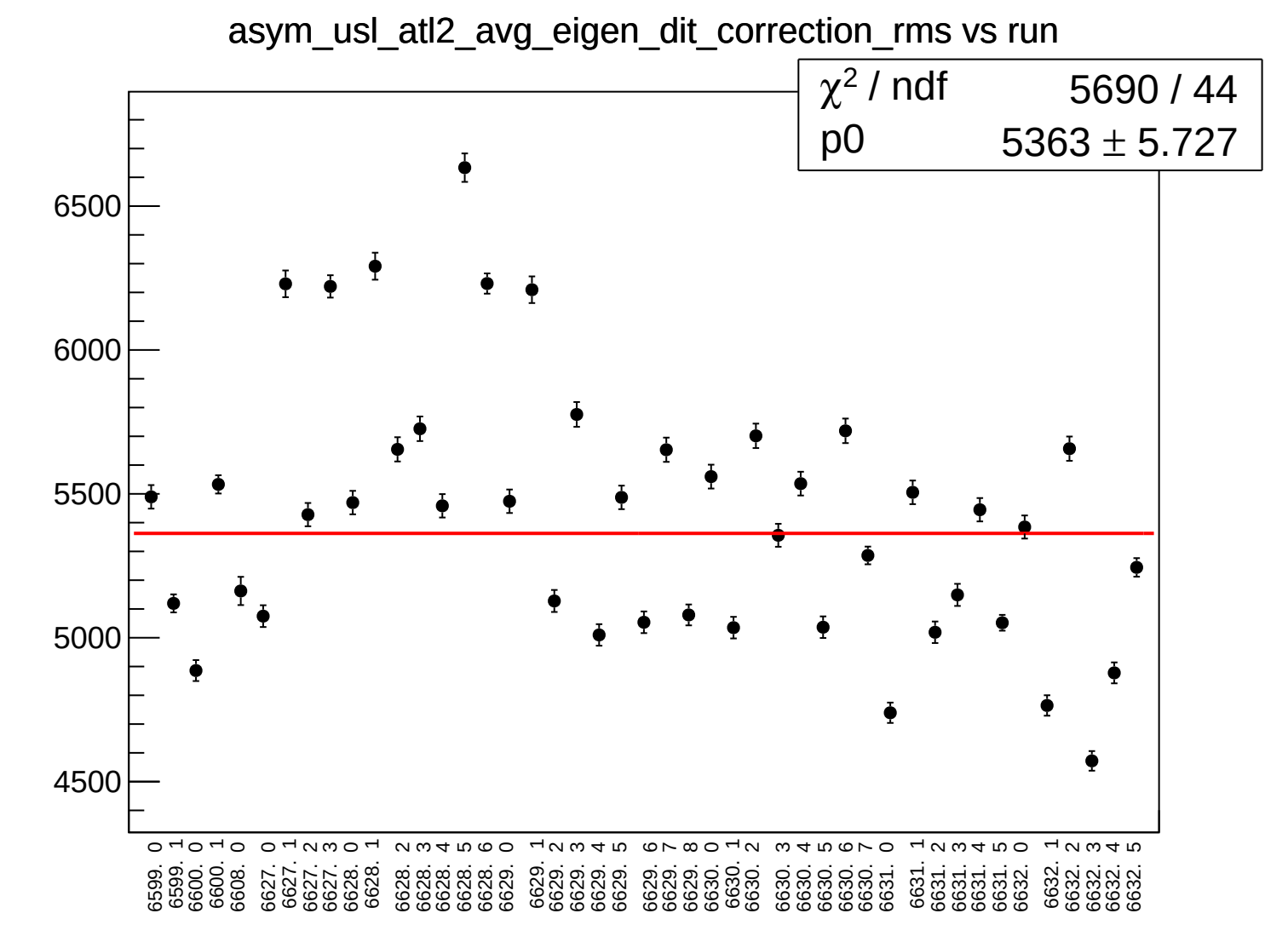
6632. 4
6632. 5


asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 63.9 / 44
p0 1.066e+04 ± 8099
250
200
150
100
50
0
−50
−100
−150
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −44.07
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02056
Std Dev 1.191
8
7
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 5690 / 44
p0 5363 ± 5.727
6500
6000
5500
5000
4500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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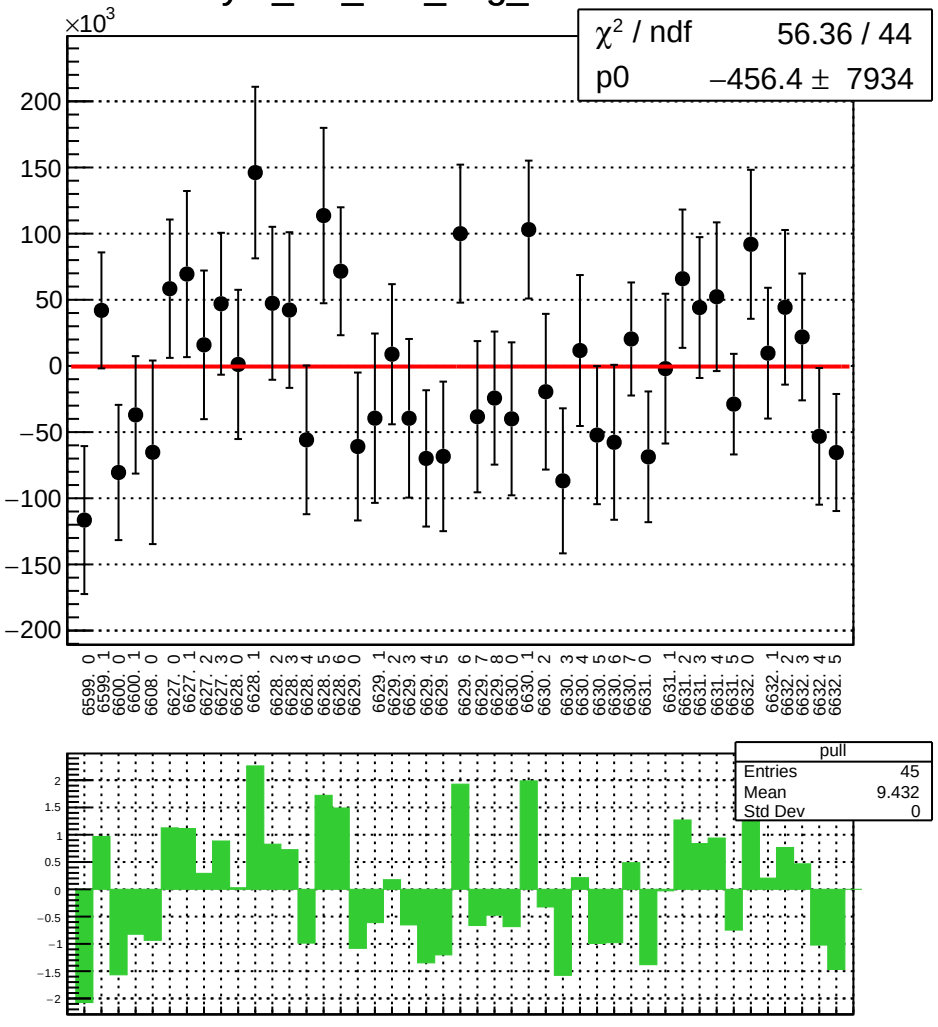
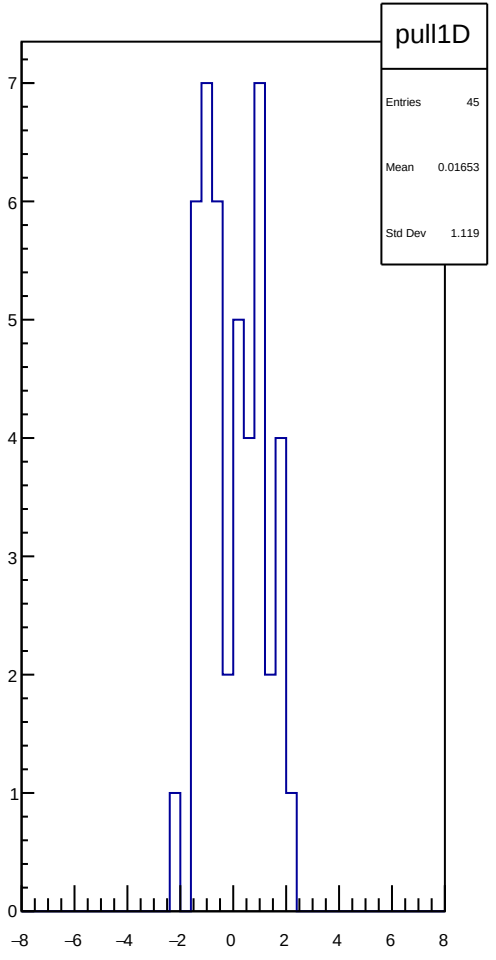
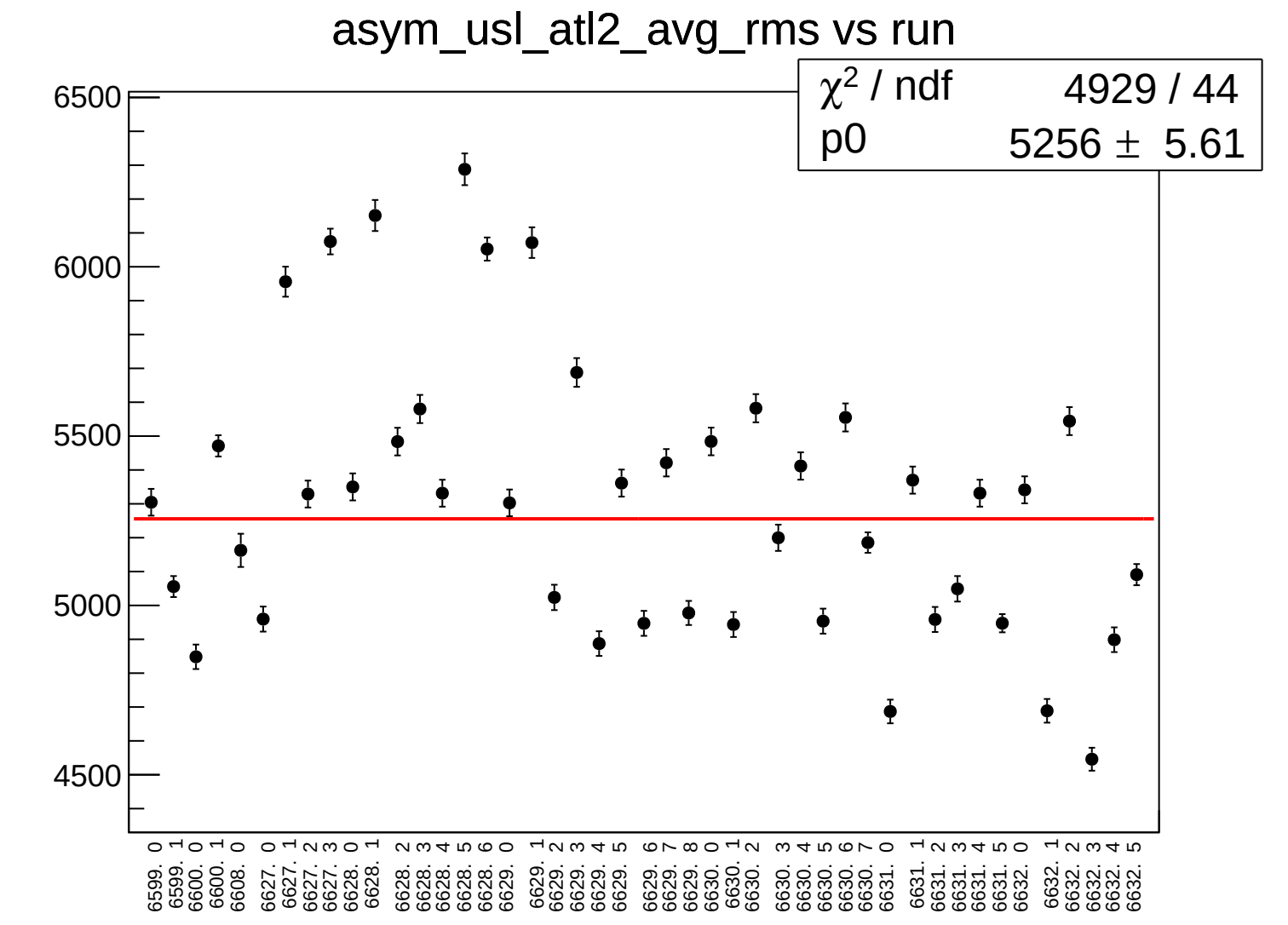
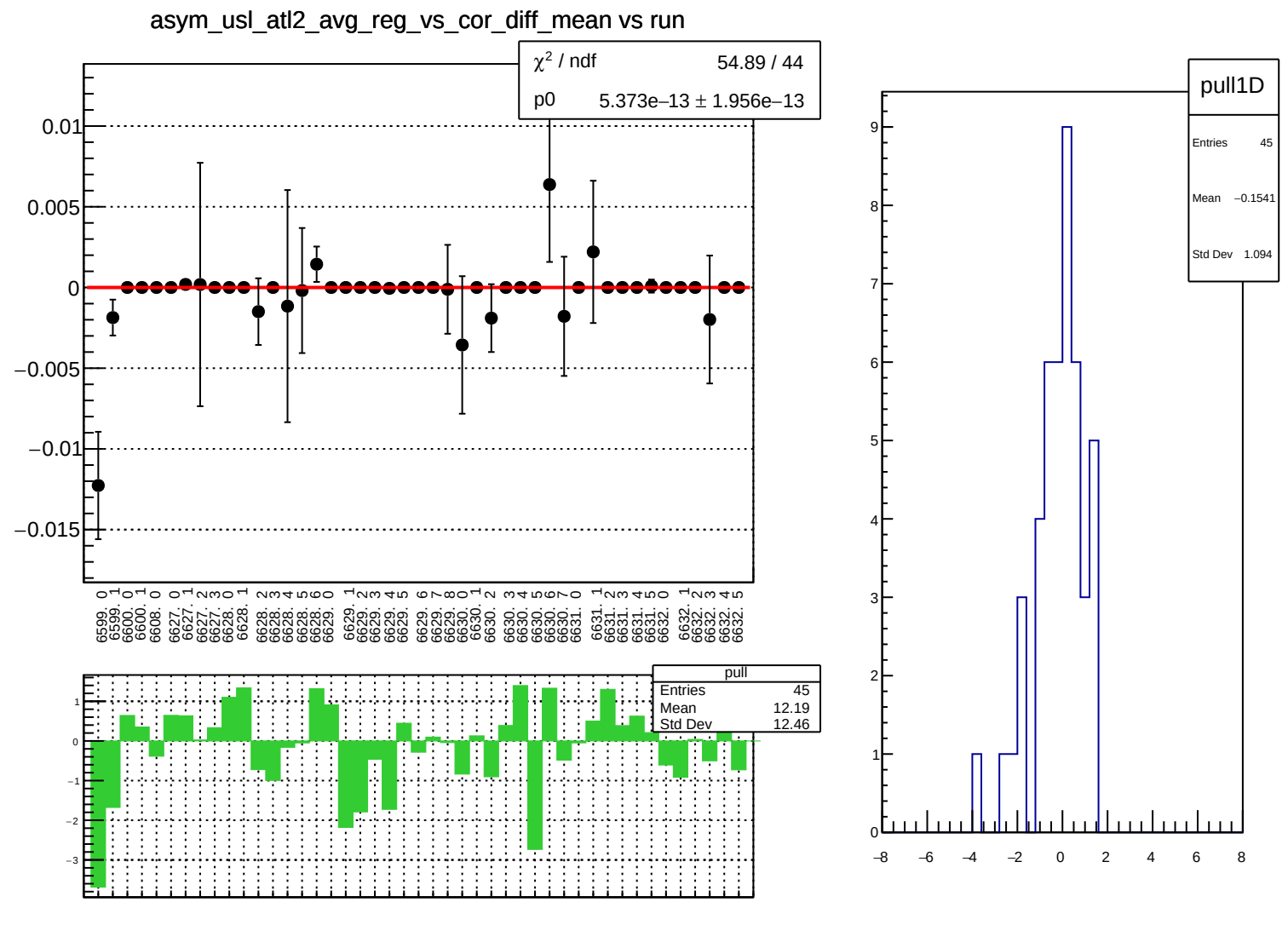
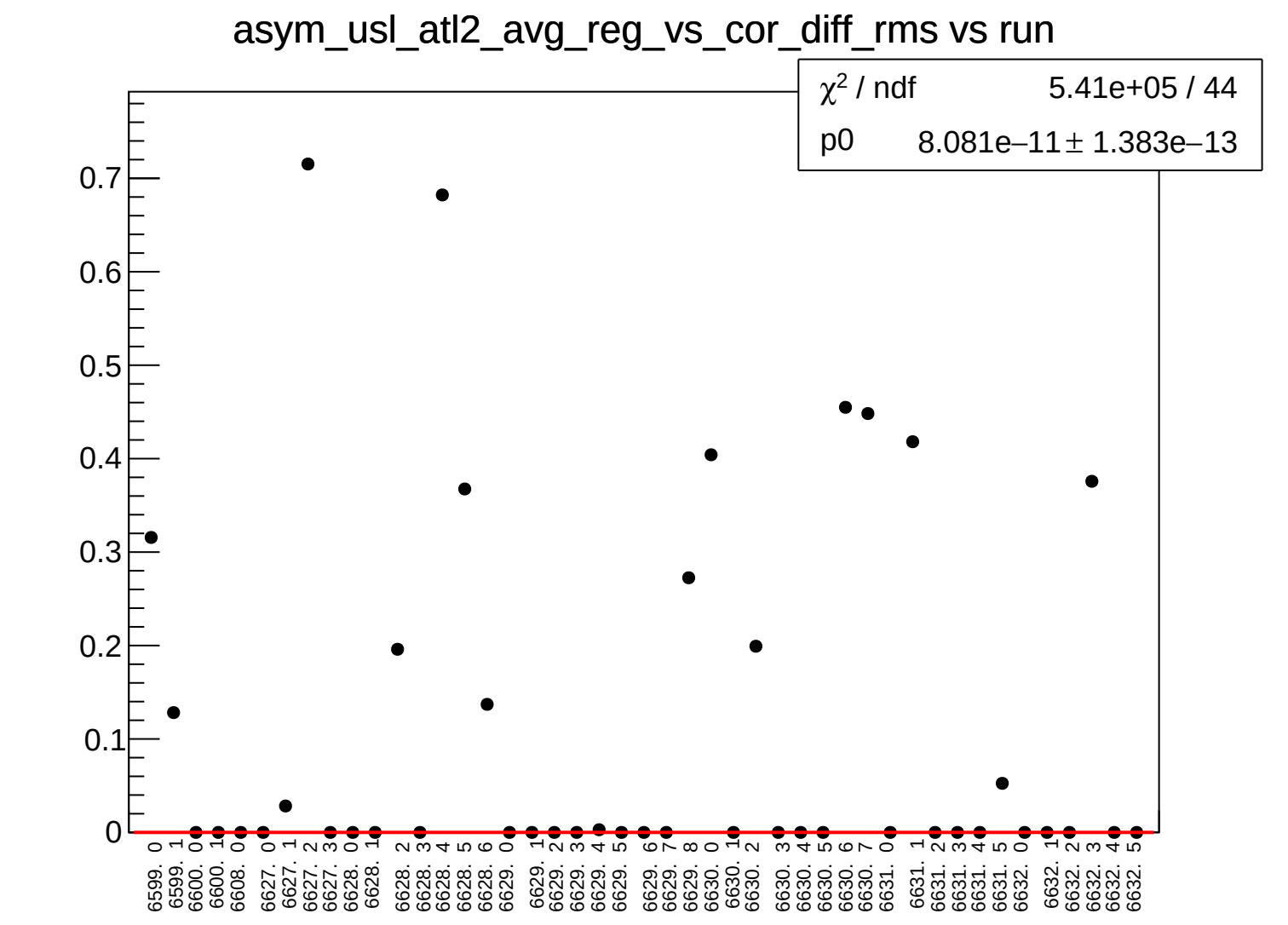
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

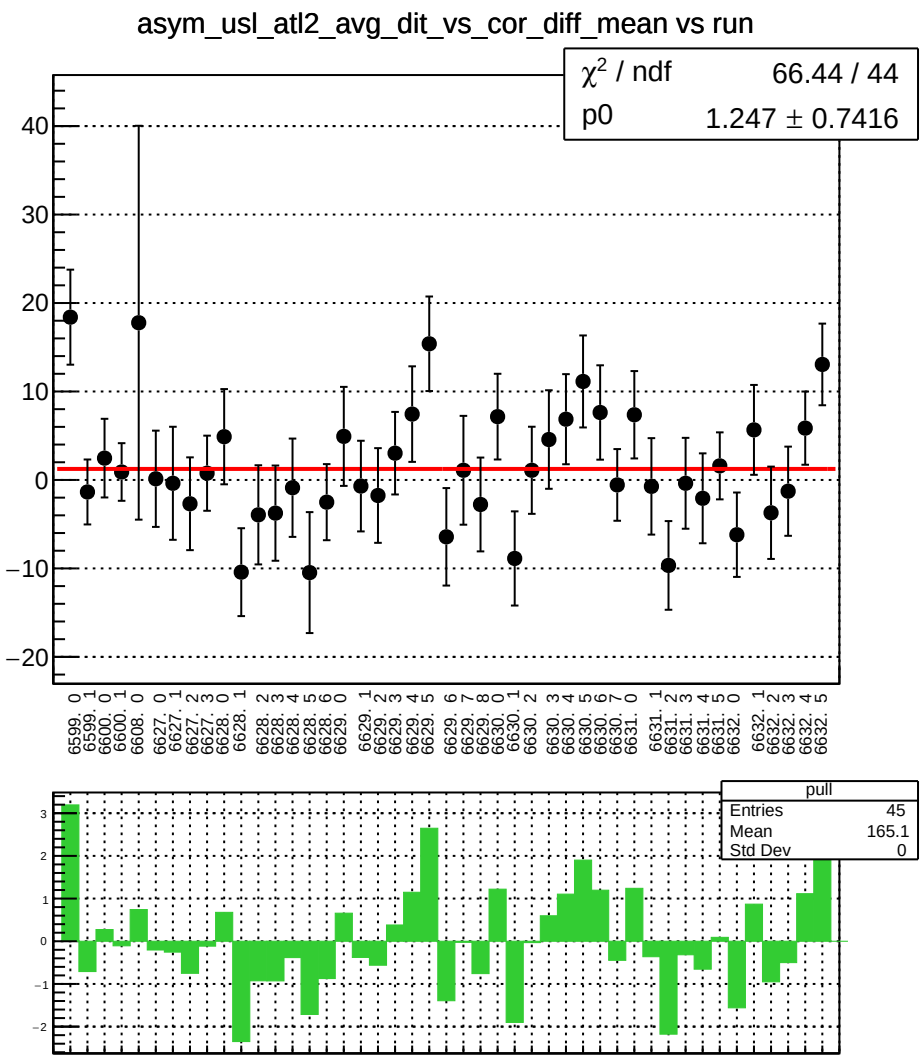

asym_usl_atl2_avg_mean vs run
χ² / ndf 56.36 / 44
p0 −456.4 ± 7934
×10³
pull
Entries 45
Mean 9.432
Std Dev 0

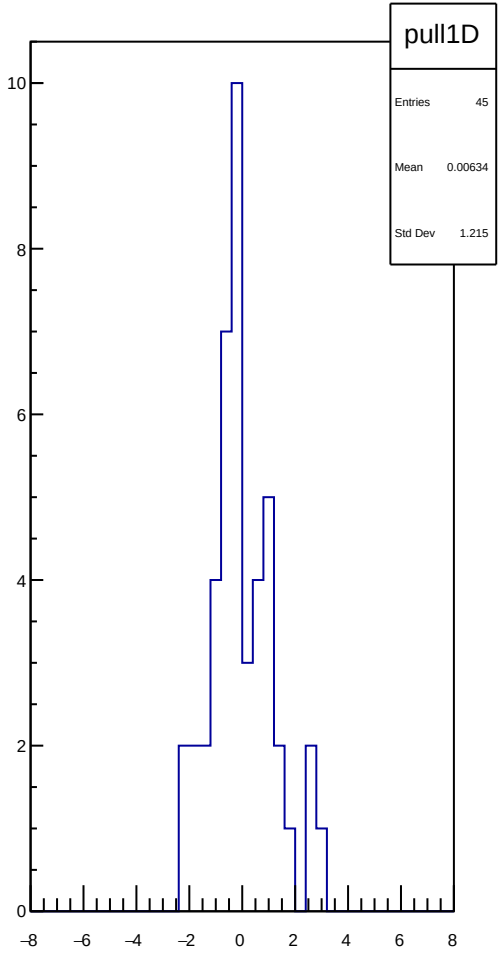

pull1D
Entries 45
Mean 0.01653
Std Dev 1.119

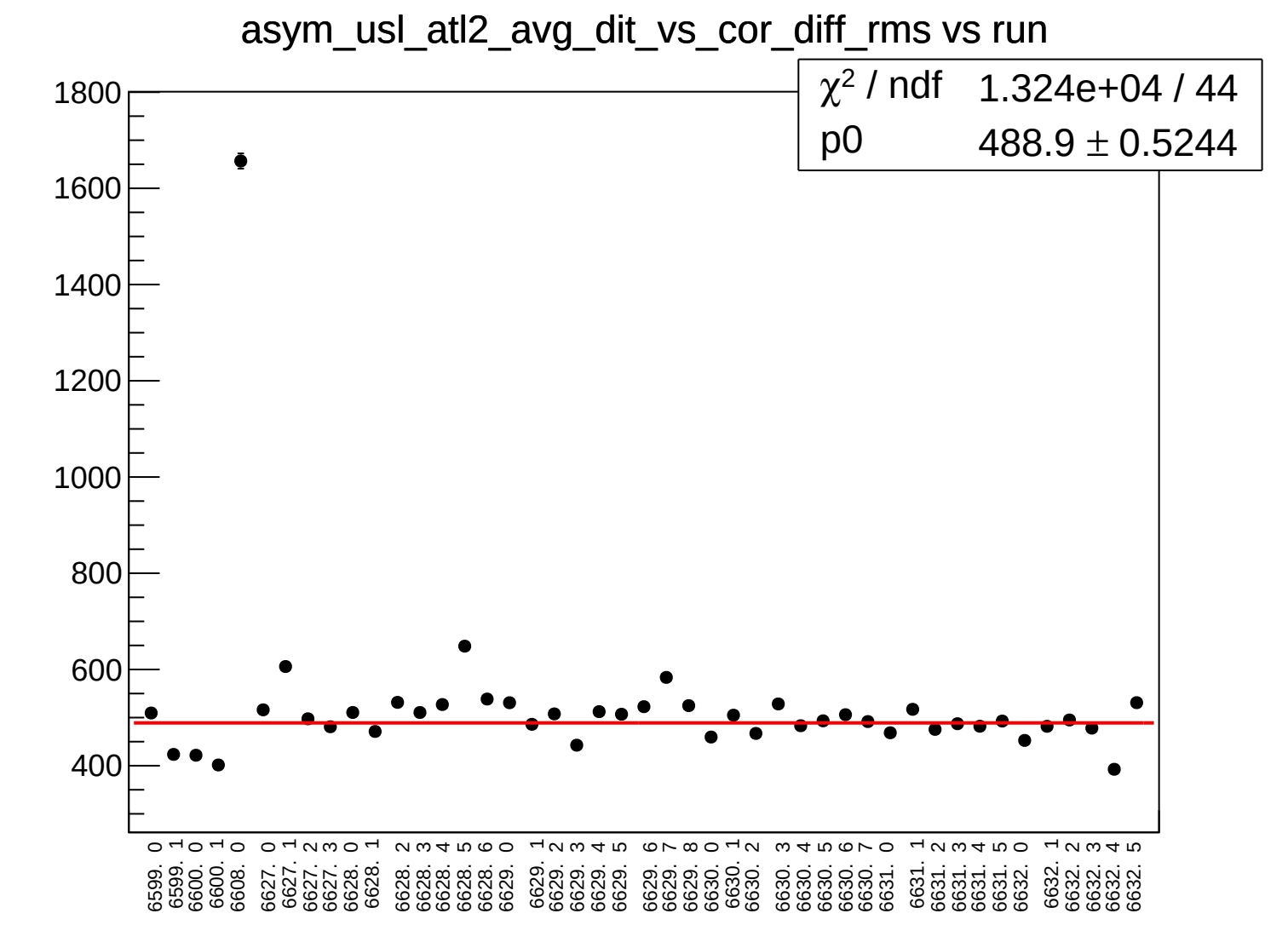

asym_usl_atl2_avg_rms vs run
χ² / ndf 4929 / 44
p0 5256 ± 5.61
6500
6000
5500
5000
4500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

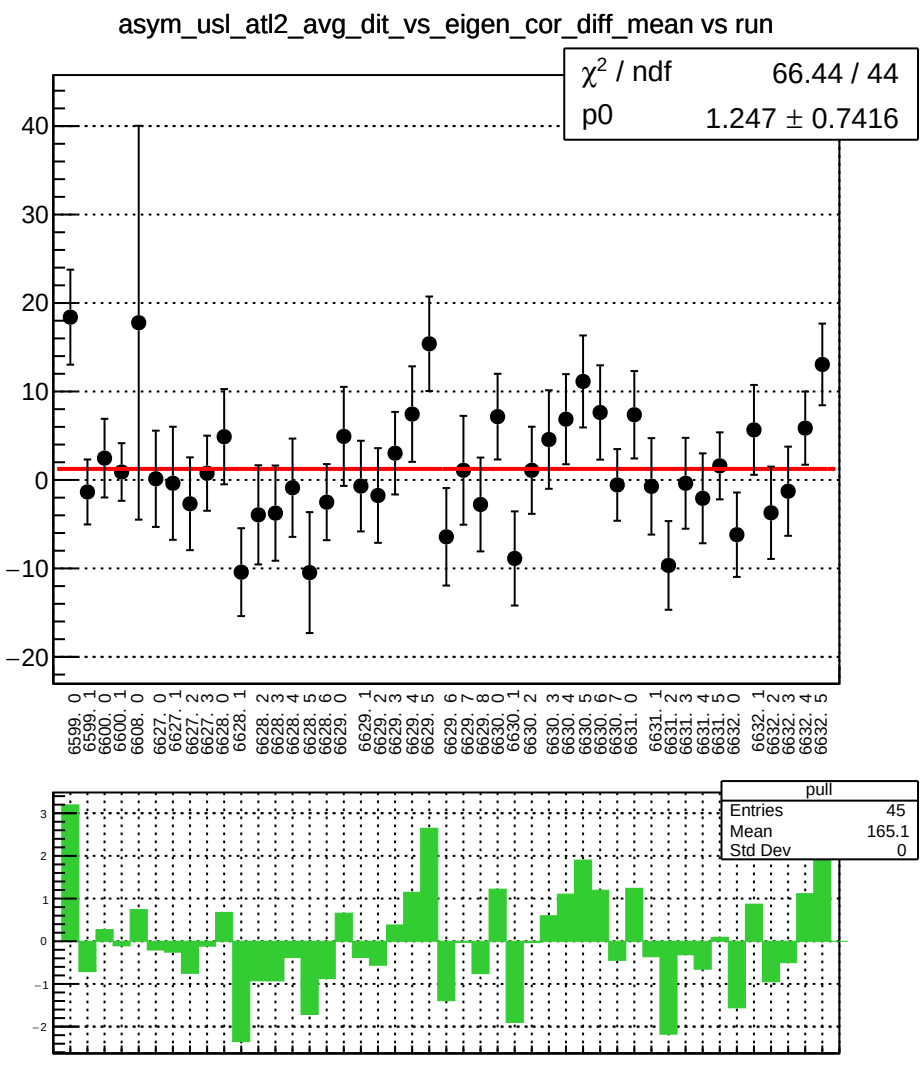

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 54.89 / 44
p0 5.373e−13 ± 1.956e−13
0.01
0.005
0
−0.005
−0.01
−0.015
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 12.19
Std Dev 12.46
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.1541
Std Dev 1.094
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

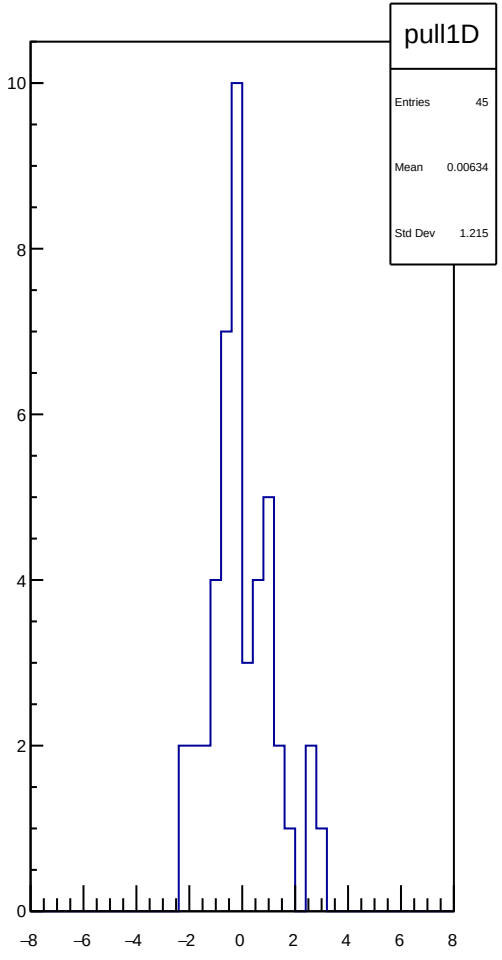

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.41e+05 / 44
p0 8.081e−11 ± 1.383e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

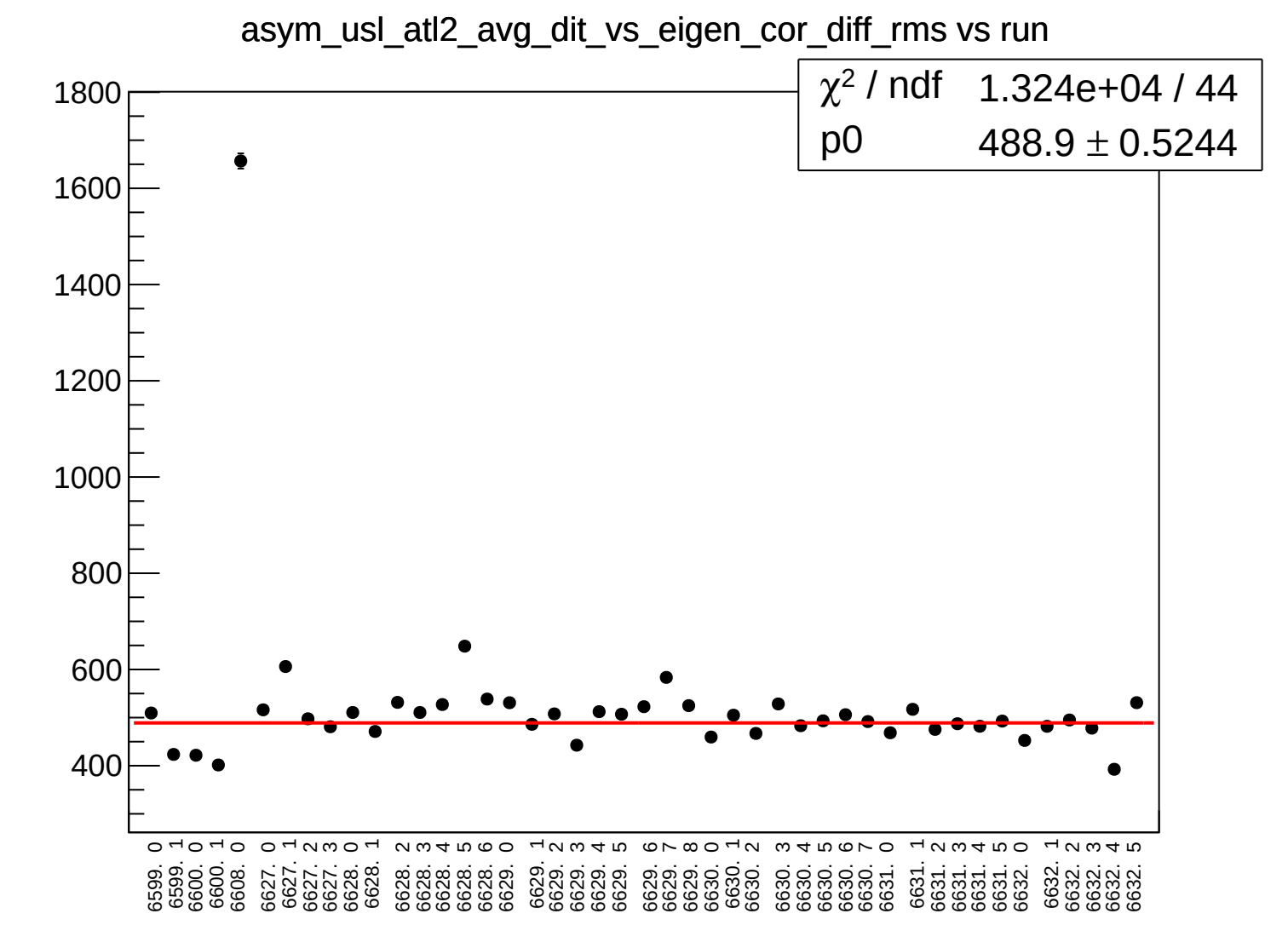

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 66.44 / 44
p0 1.247 ± 0.7416
pull
Entries 45
Mean 165.1
Std Dev 0

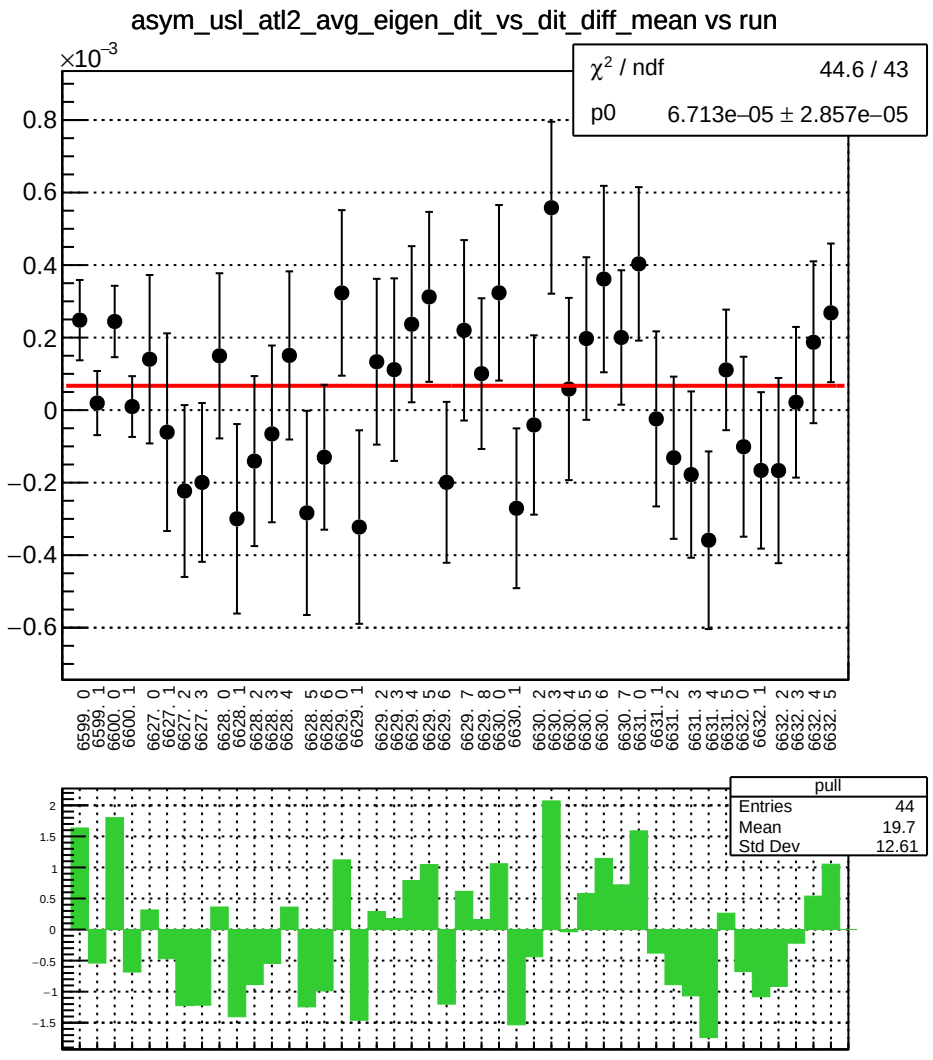

pull1D
Entries 45
Mean 0.00634
Std Dev 1.215

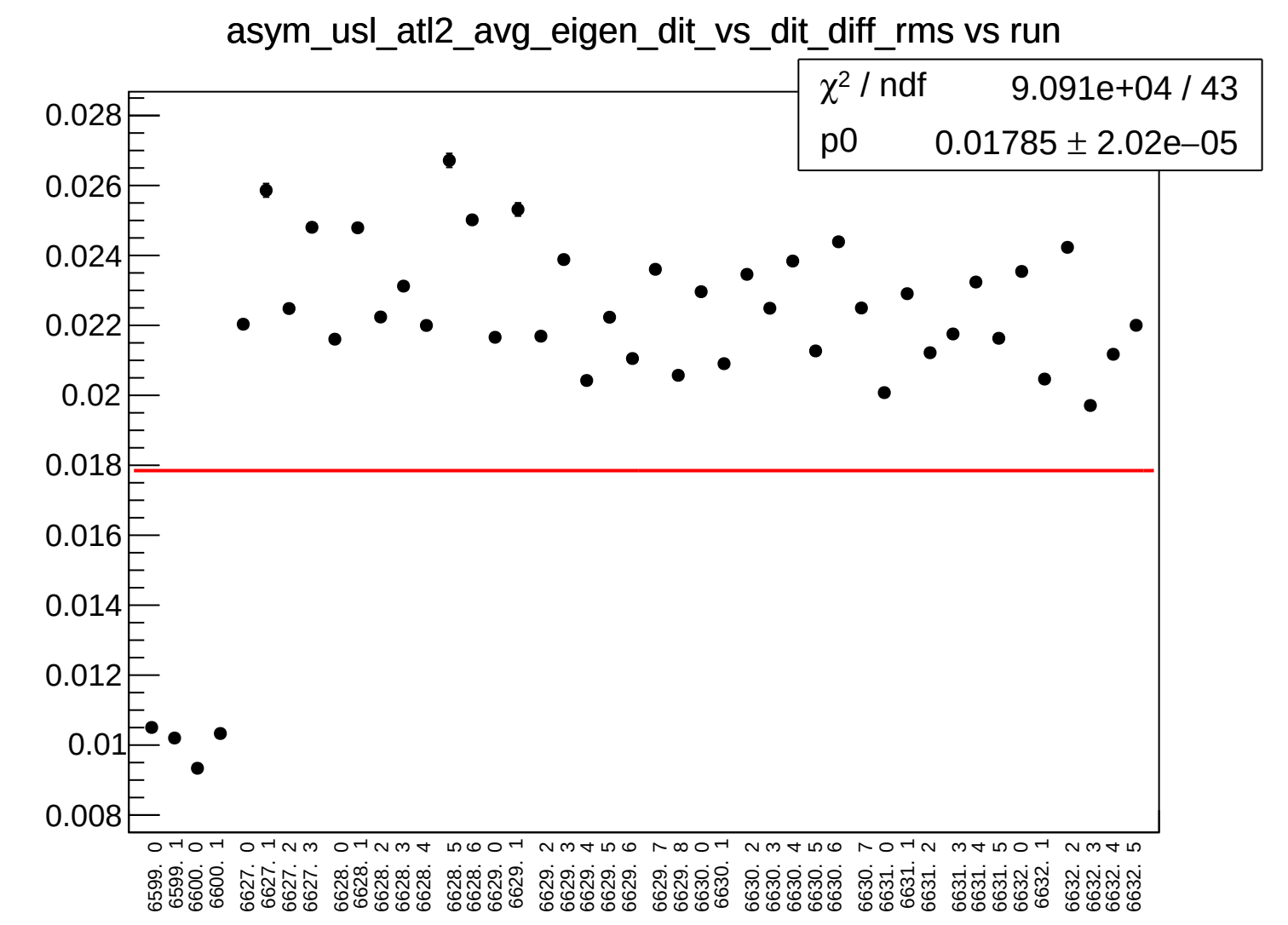

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.324e+04 / 44
p0 488.9 ± 0.5244
1800
1600
1400
1200
1000
800
600
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

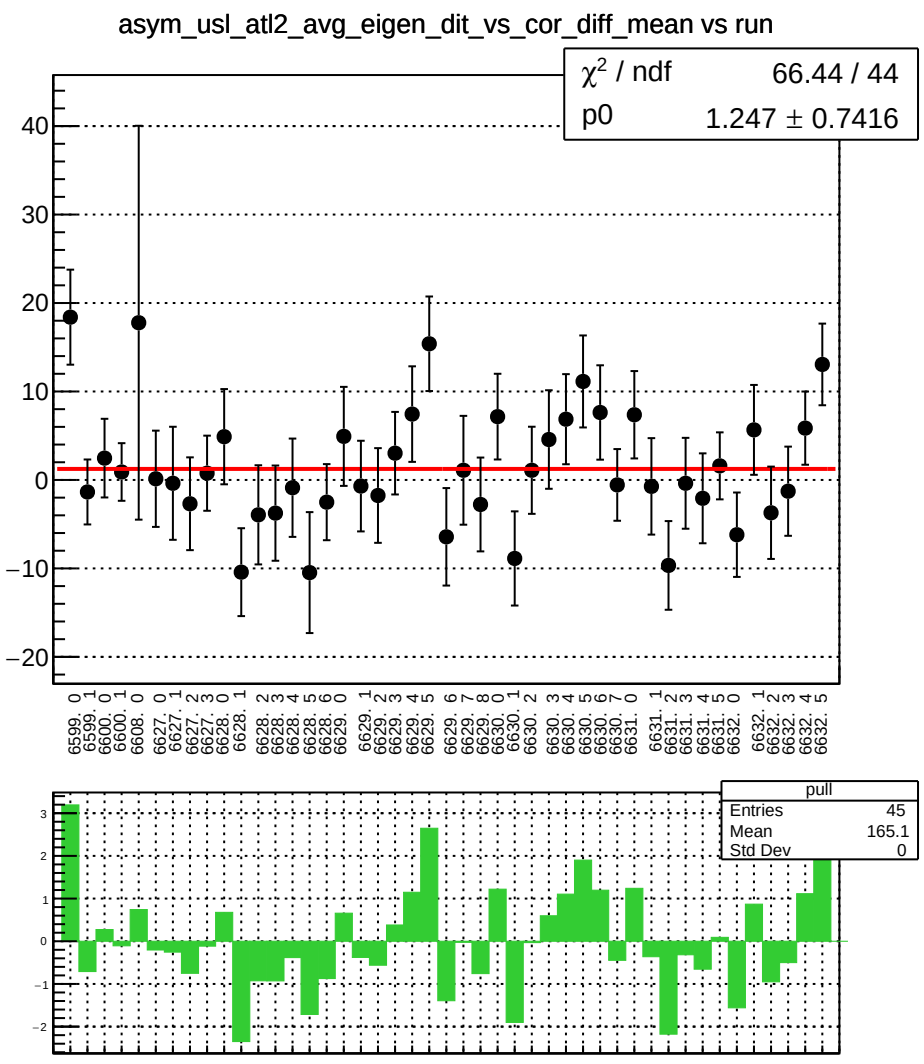

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.44 / 44
p0 1.247 ± 0.7416
pull
Entries 45
Mean 165.1
Std Dev 0

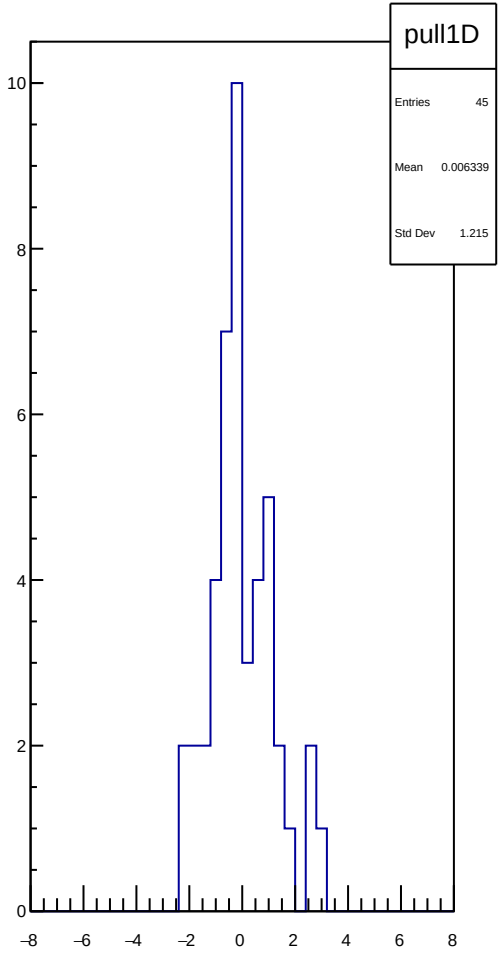

pull1D
Entries 45
Mean 0.00634
Std Dev 1.215

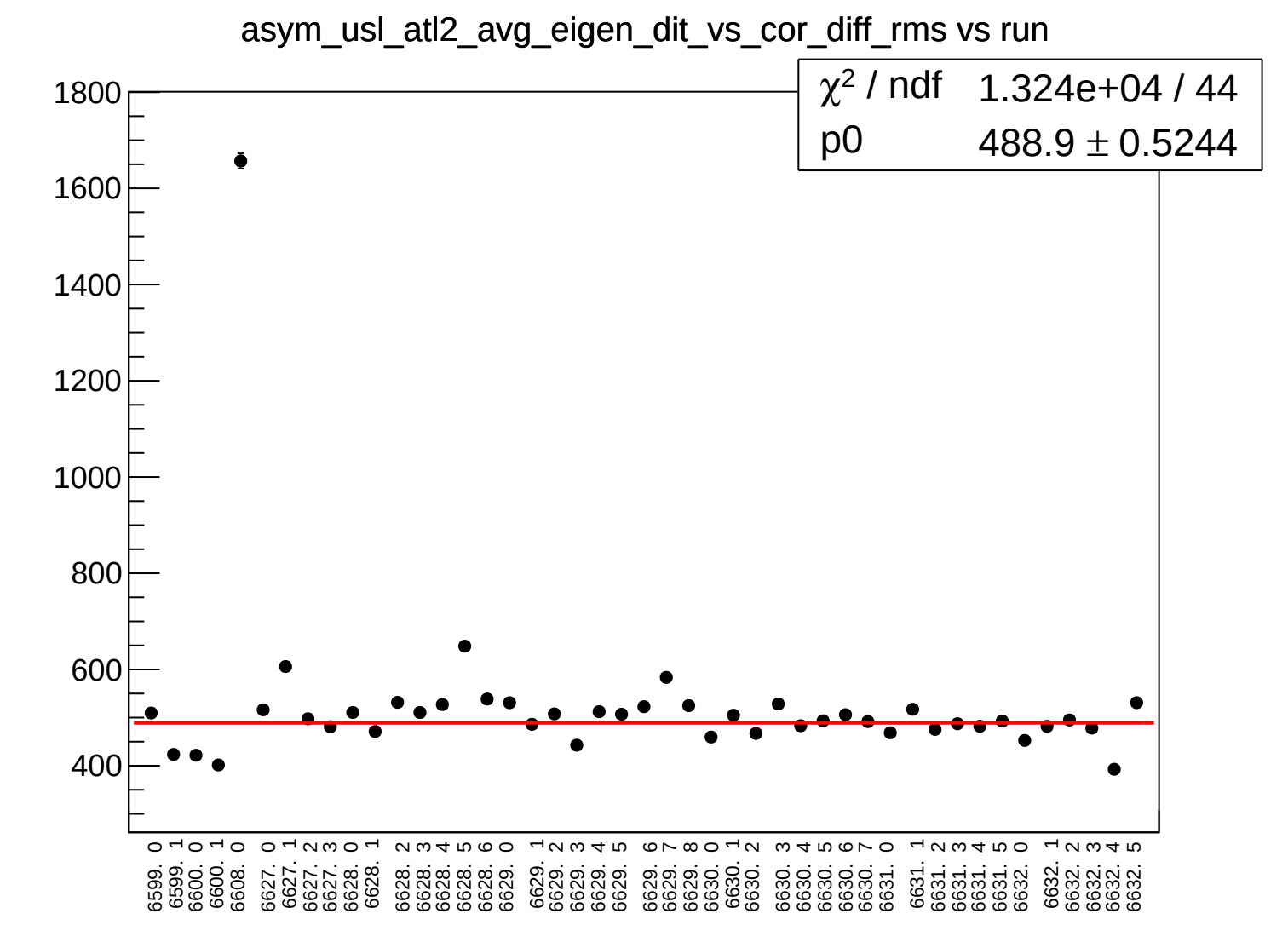

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.324e+04 / 44
p0 488.9 ± 0.5244
1800
1600
1400
1200
1000
800
600
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

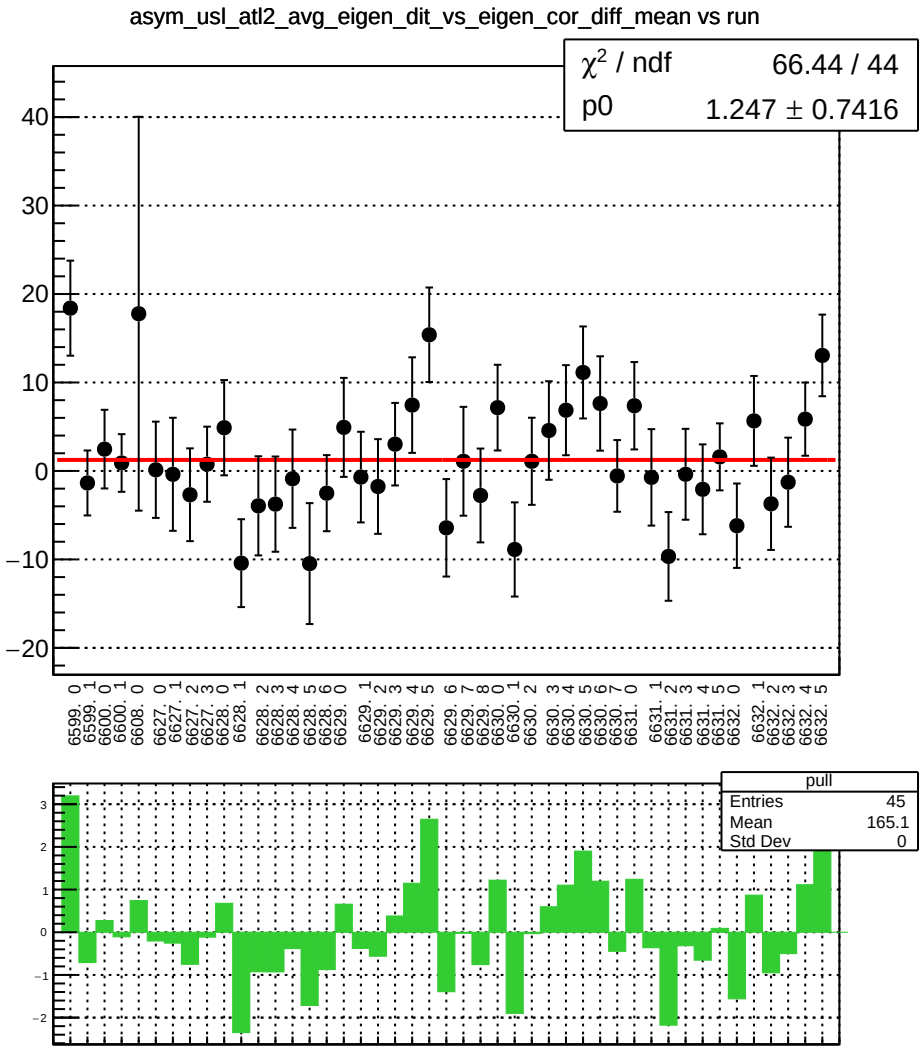

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 44.6 / 43
p0 6.713e−05 ± 2.857e−05
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 44
Mean 19.7
Std Dev 12.61
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 44
Mean −0.07139
Std Dev 1.004
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

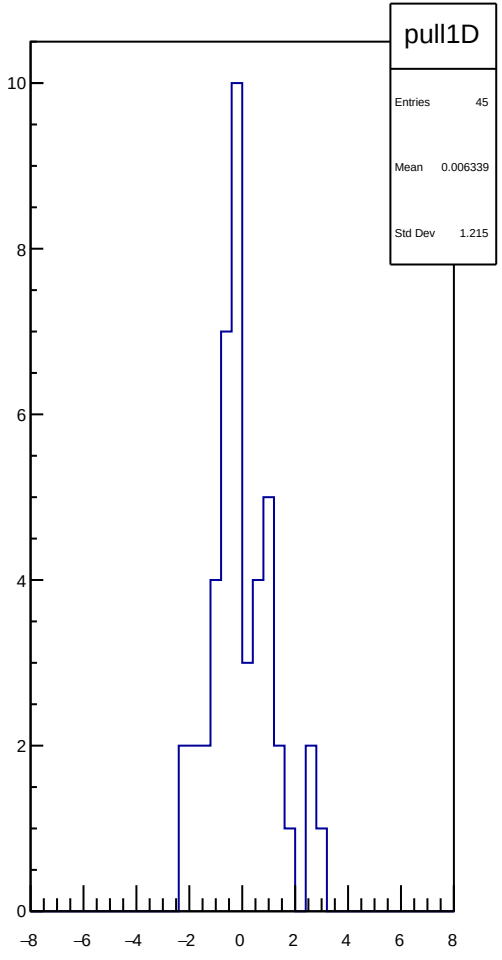

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.091e+04 / 43
p0 0.01785 ± 2.02e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

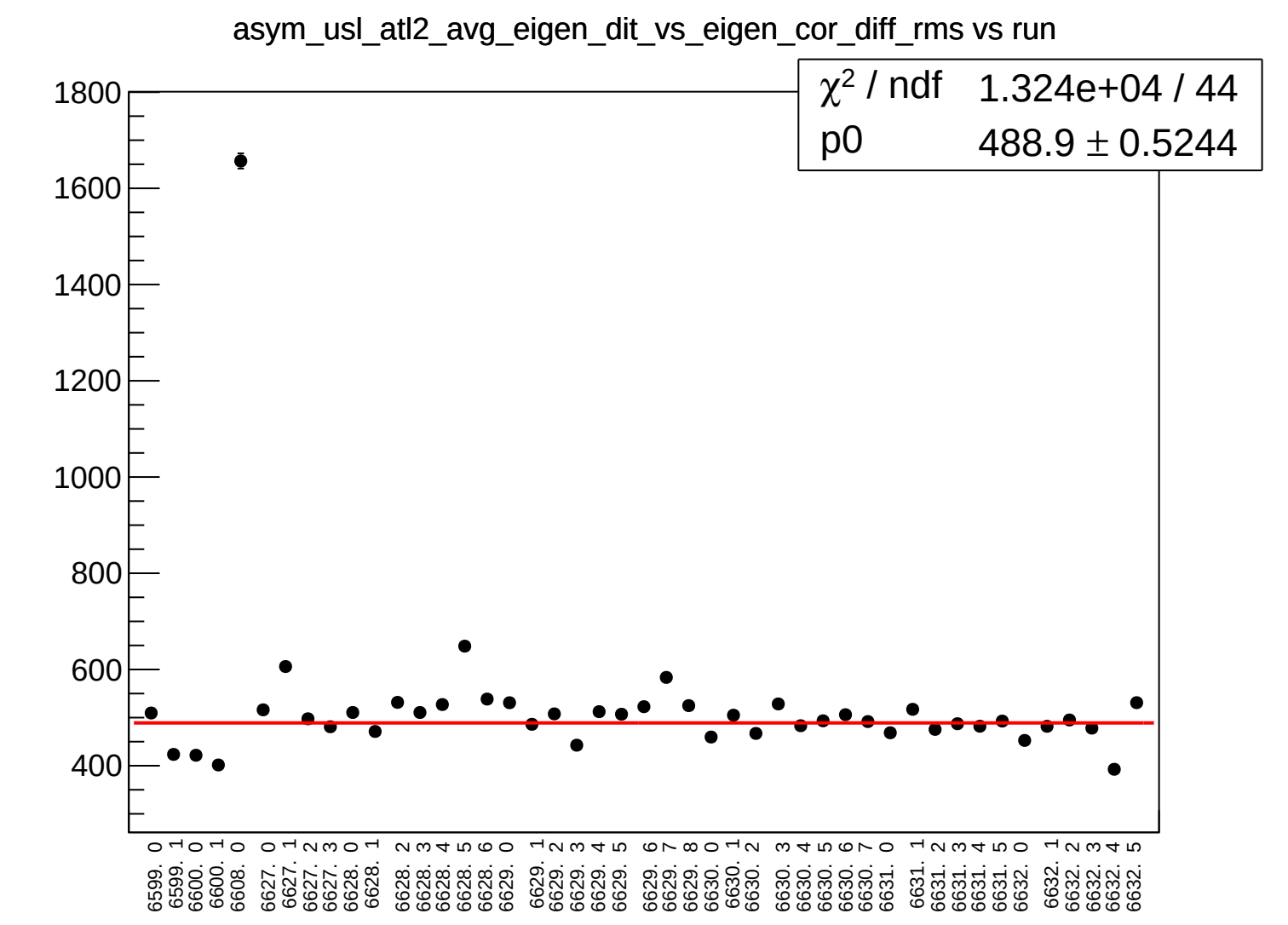

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.44 / 44
p0 1.247 ± 0.7416
pull
Entries 45
Mean 165.1
Std Dev 0

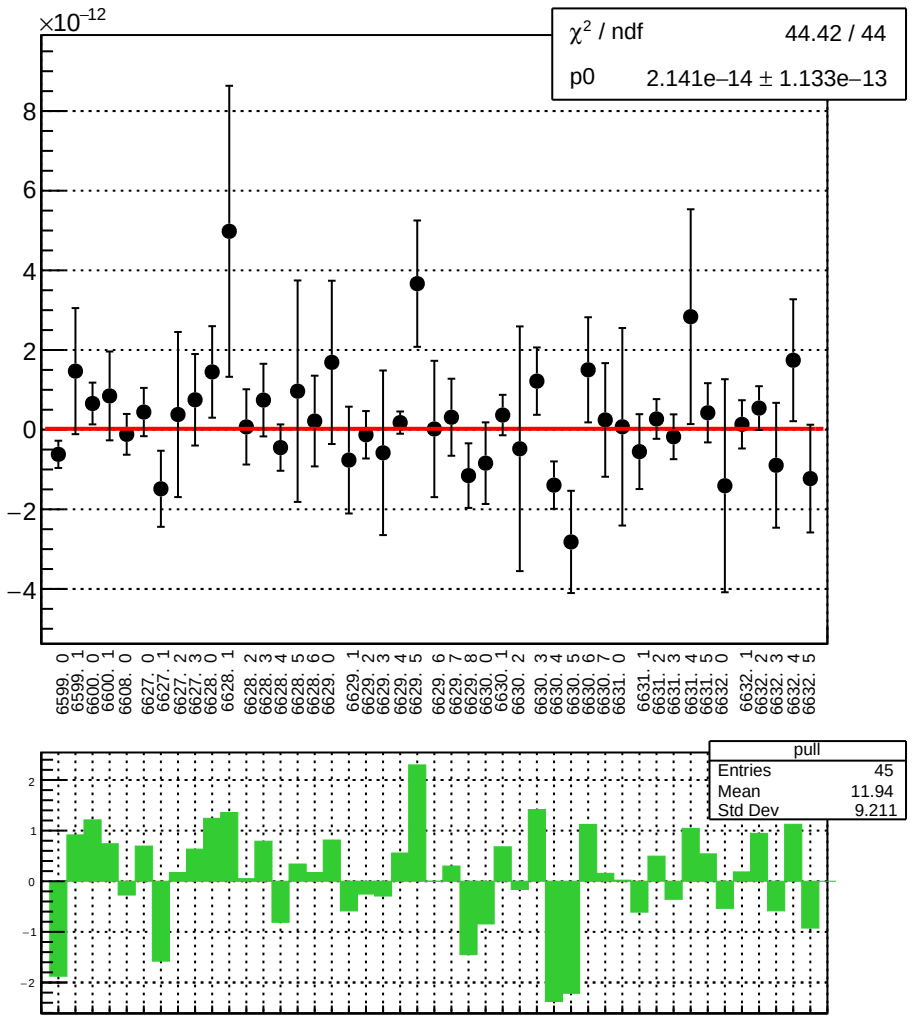

pull1D
Entries 45
Mean 0.006339
Std Dev 1.215

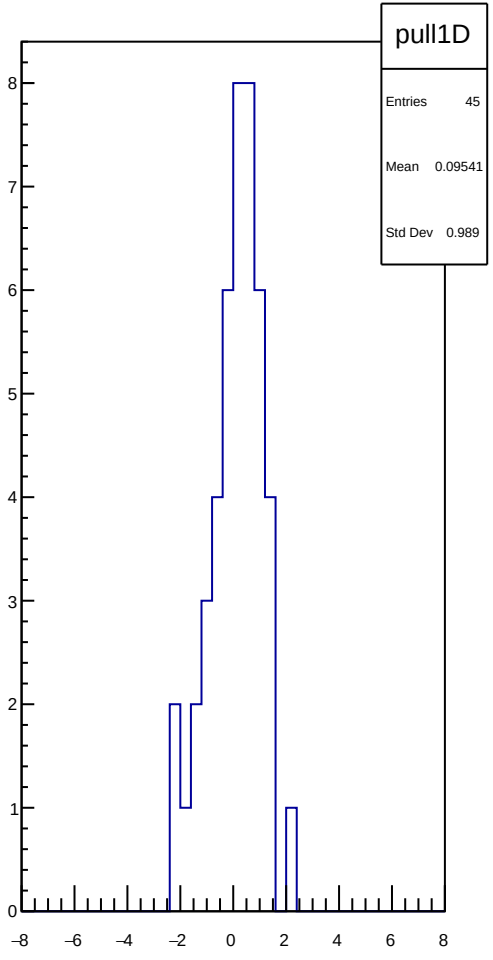

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.324e+04 / 44
p0 488.9 ± 0.5244
1800
1600
1400
1200
1000
800
600
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

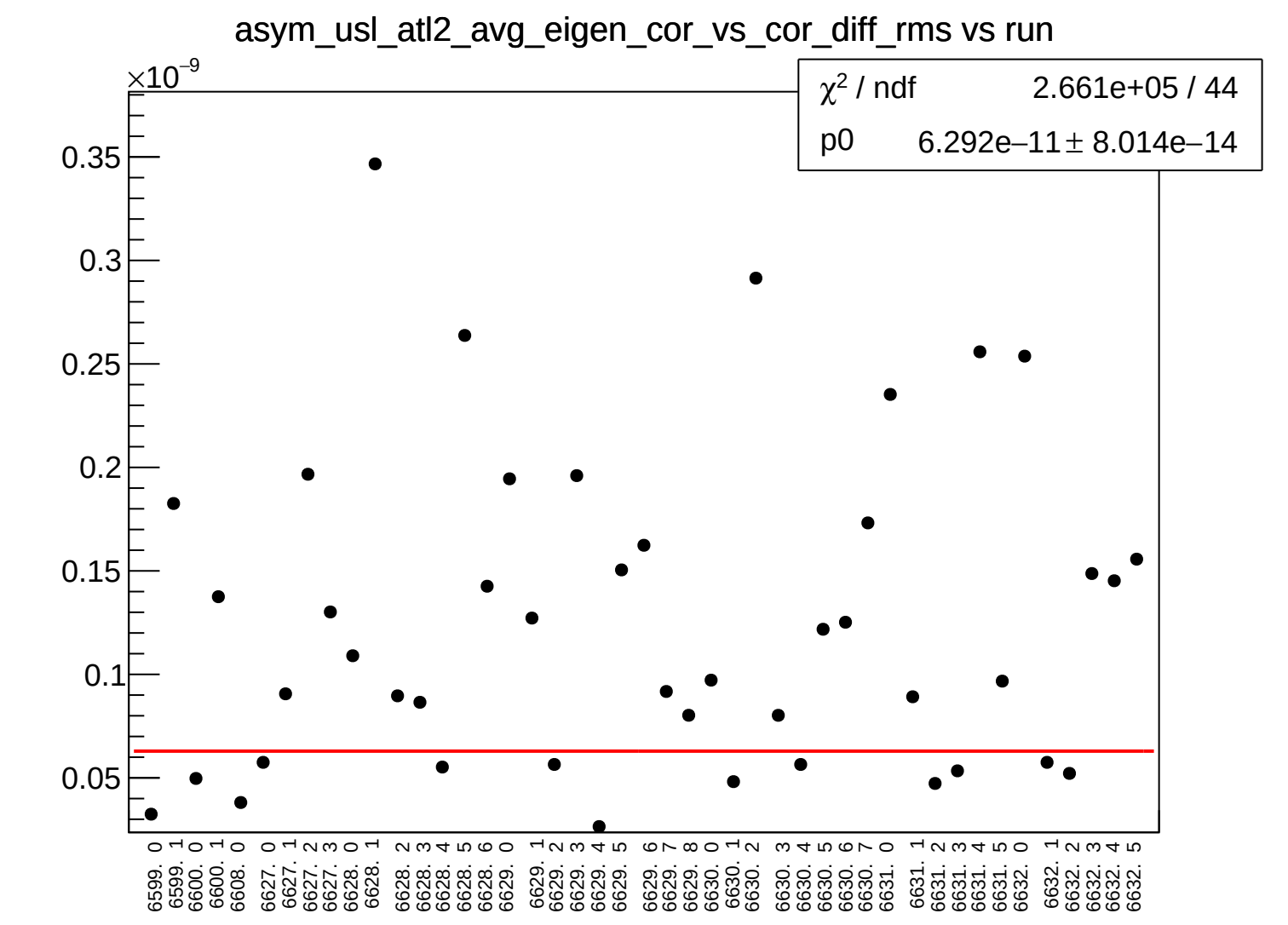

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.44 / 44
p0 1.247 ± 0.7416
pull
Entries 45
Mean 165.1
Std Dev 0

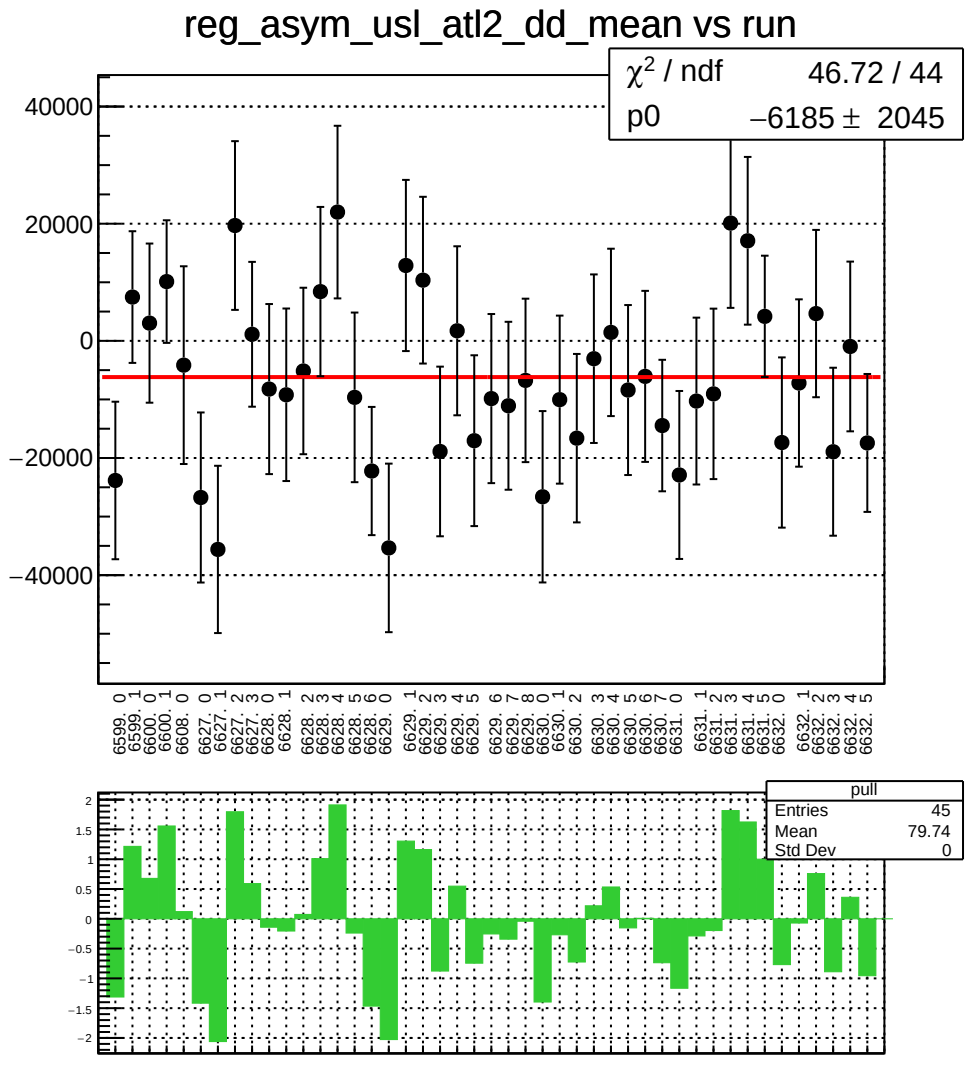

pull1D
Entries 45
Mean 0.006339
Std Dev 1.215

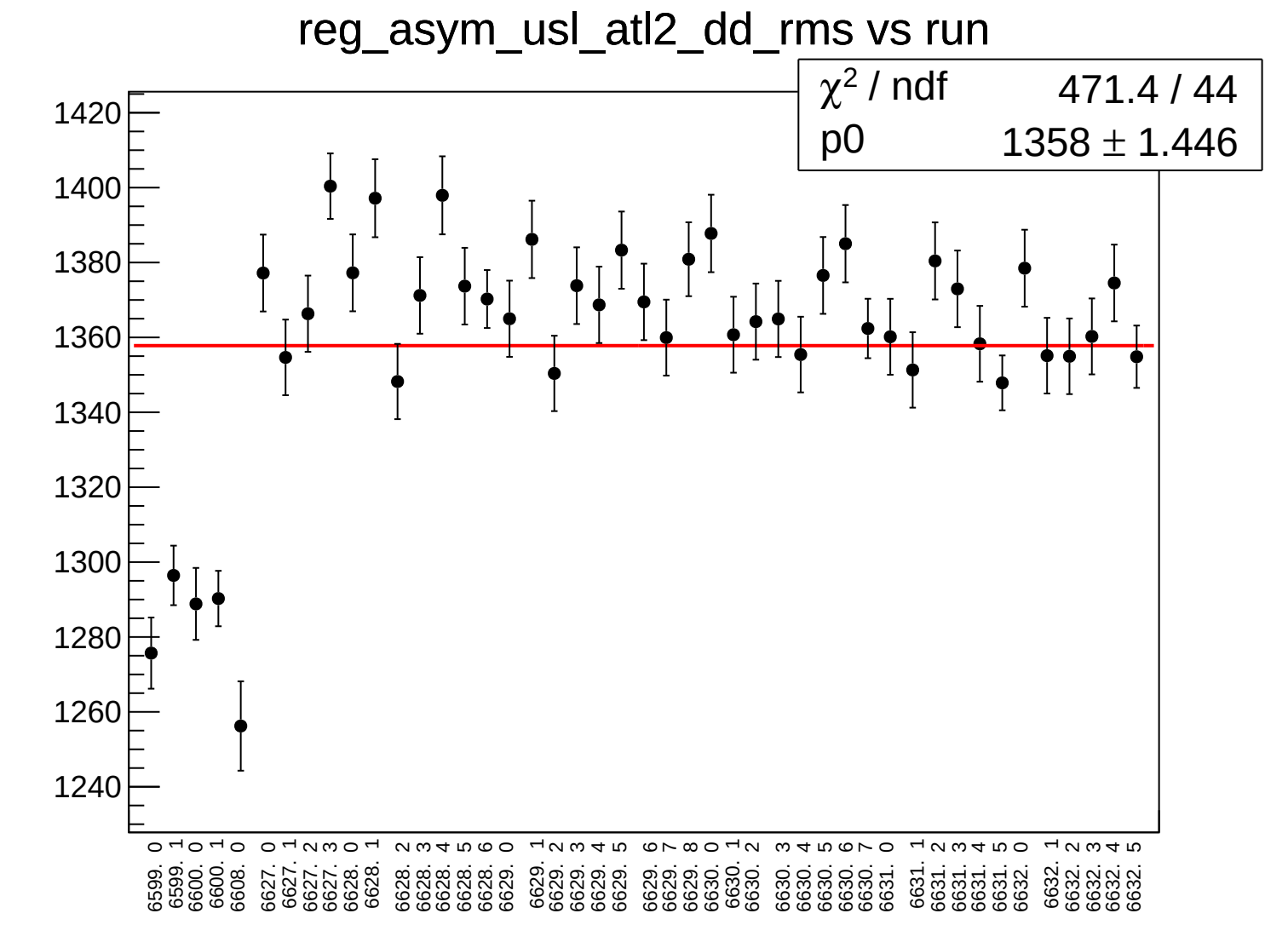

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.324e+04 / 44
p0 488.9 ± 0.5244
1800
1600
1400
1200
1000
800
600
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

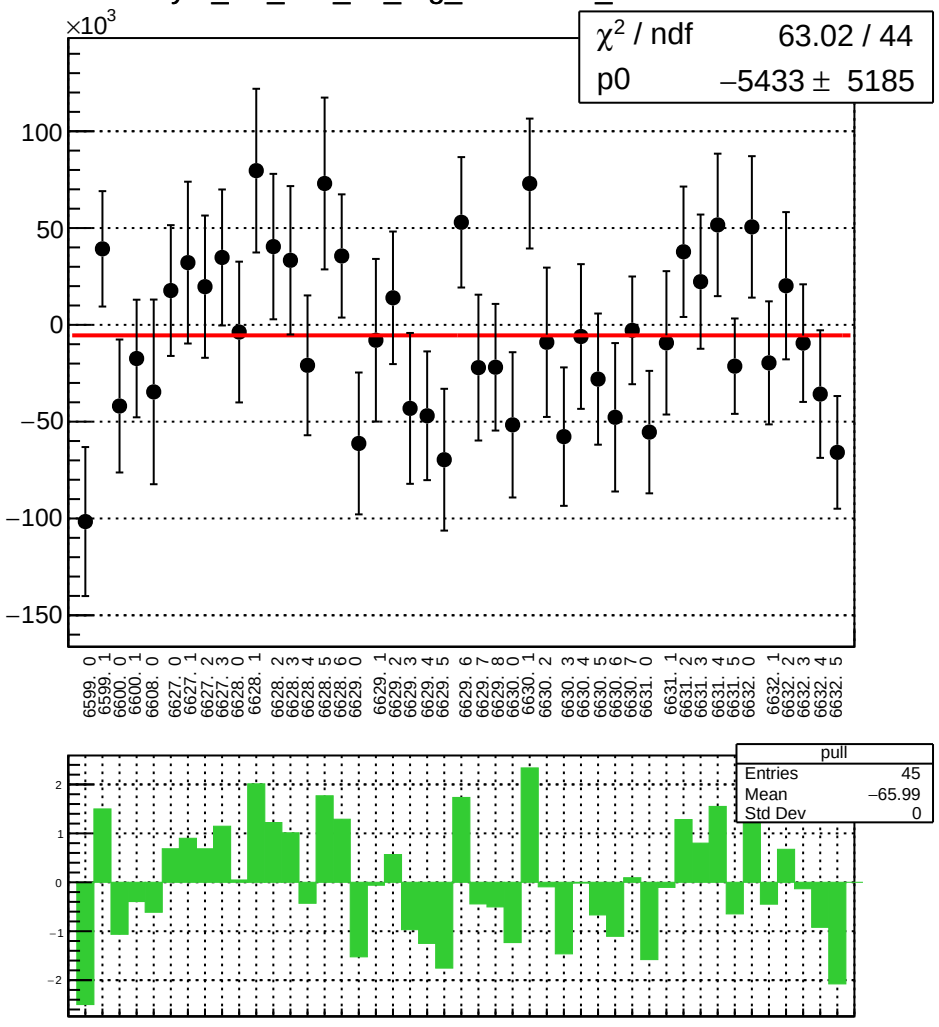

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 44.42 / 44
p0 2.141e−14 ± 1.133e−13
8
6
4
2
0
−2
−4
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 11.94
Std Dev 9.211
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.09541
Std Dev 0.989
8
7
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 2.661e+05 / 44
p0 6.292e−11 ± 8.014e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 46.72 / 44
p0 −6185 ± 2045
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 79.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.009885
Std Dev 1.019
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 471.4 / 44
p0 1358 ± 1.446
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 63.02 / 44
p0 −5433 ± 5185
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6628. 4
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6629. 1
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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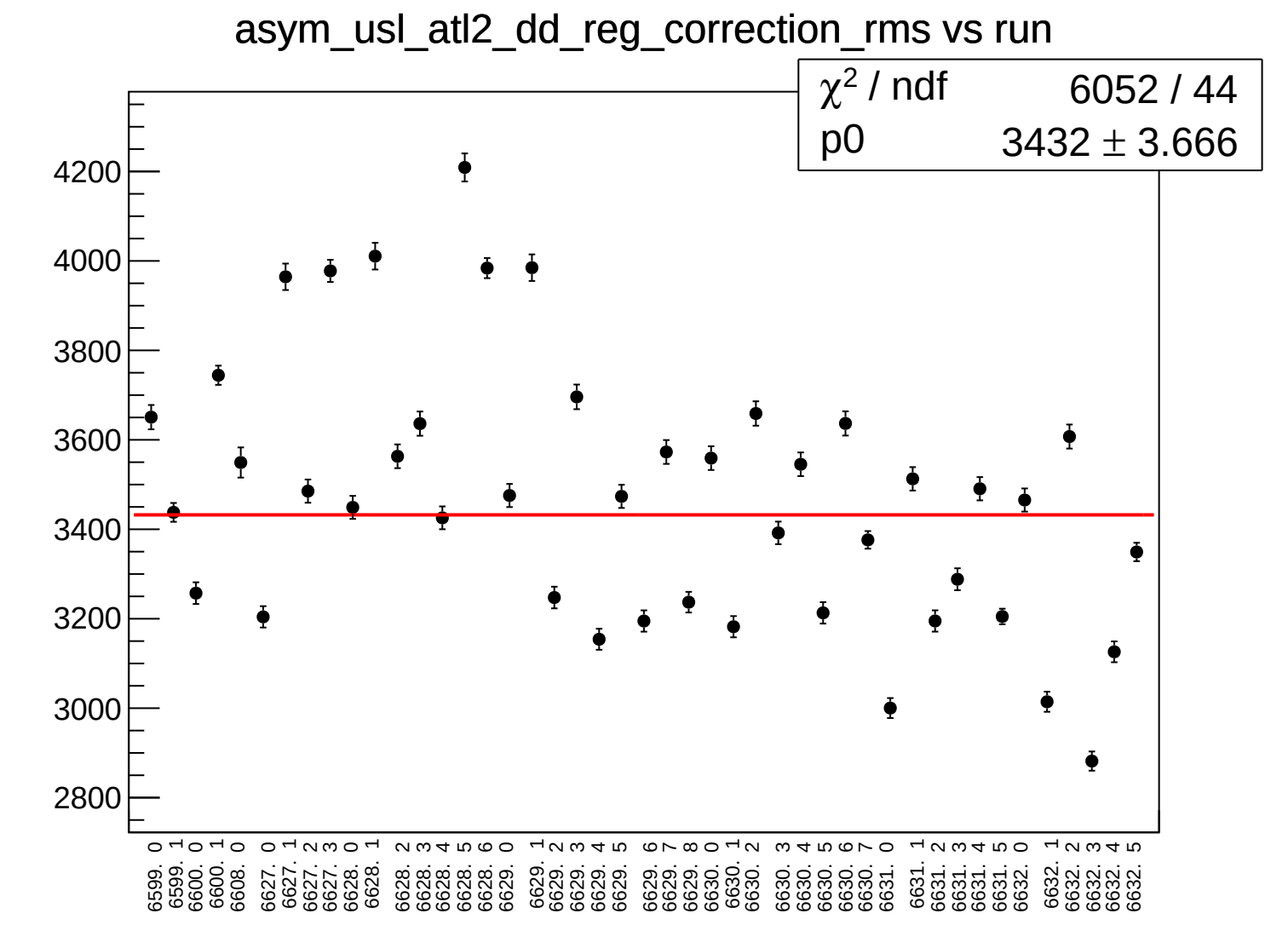
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −65.99
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01922
Std Dev 1.183
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 6052 / 44
p0 3432 ± 3.666
4200
4000
3800
3600
3400
3200
3000
2800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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6628. 3
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6629. 2
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6629. 8
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6630. 1
6630. 2
6630. 3
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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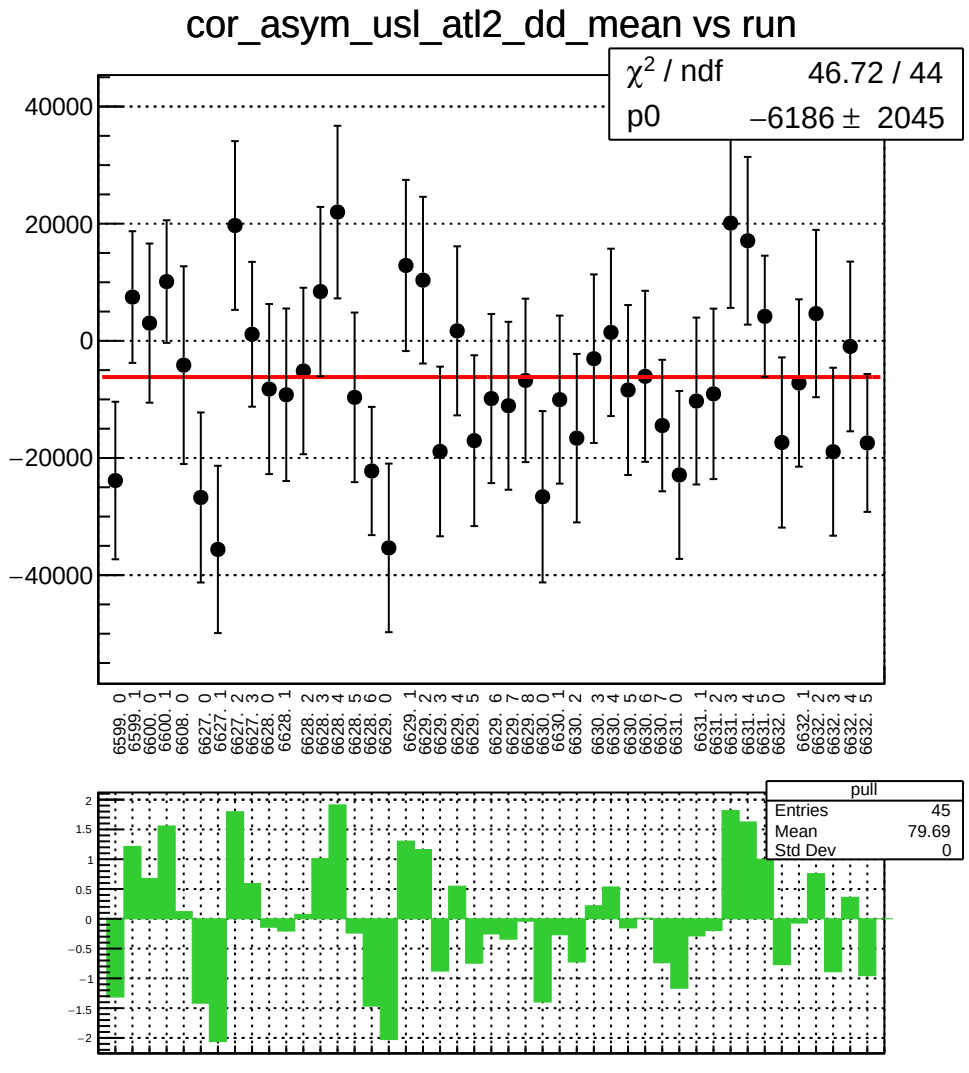
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 46.72 / 44
p0 −6186 ± 2045
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
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6629. 3
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6629. 5
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6629. 7
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6630. 0
6630. 1
6630. 2
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6630. 4
6630. 5
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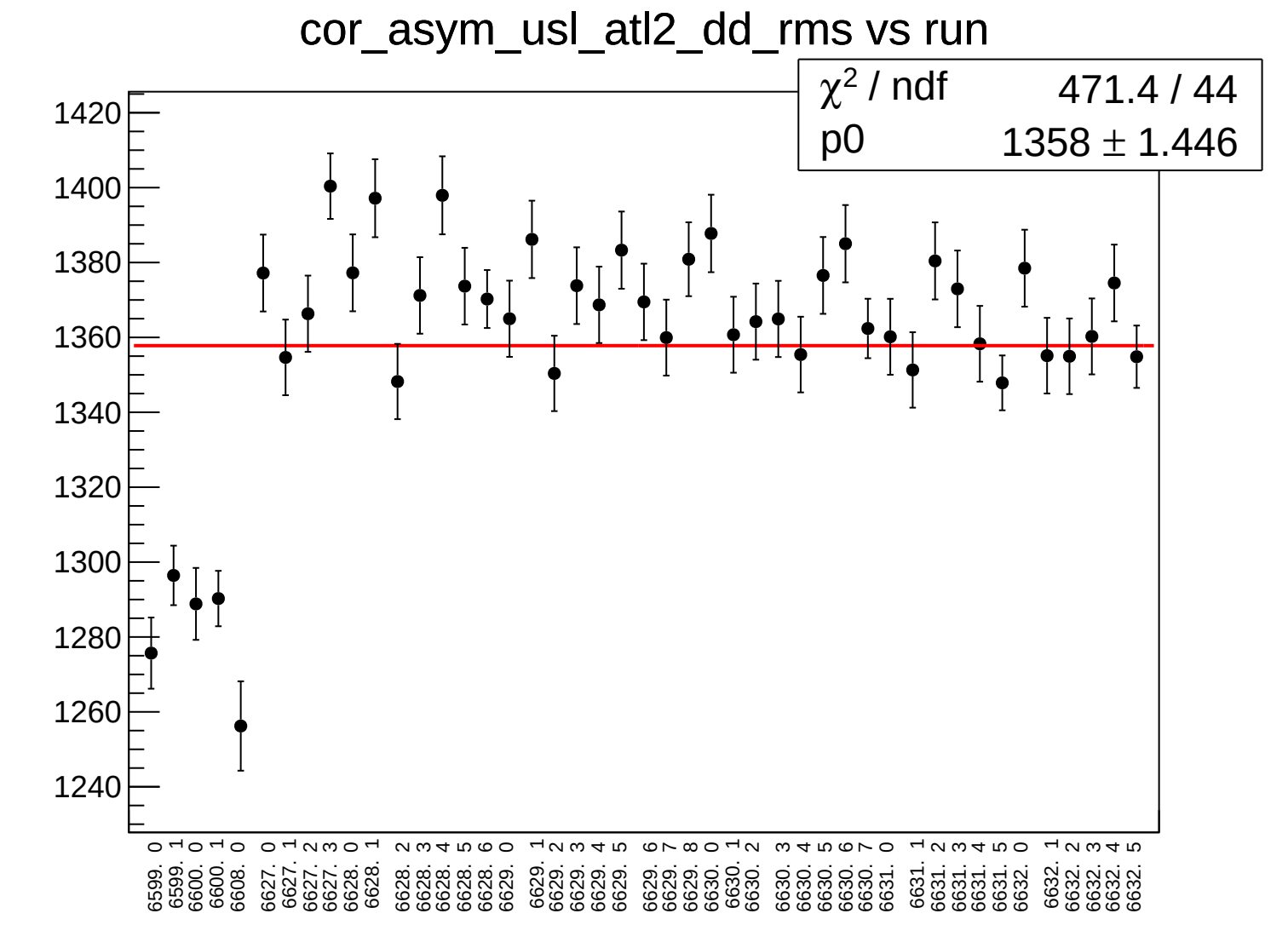
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 79.69
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.009884
Std Dev 1.019
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 471.4 / 44
p0 1358 ± 1.446
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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6629. 0
6629. 1
6629. 2
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6629. 6
6629. 7
6629. 8
6630. 0
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6630. 2
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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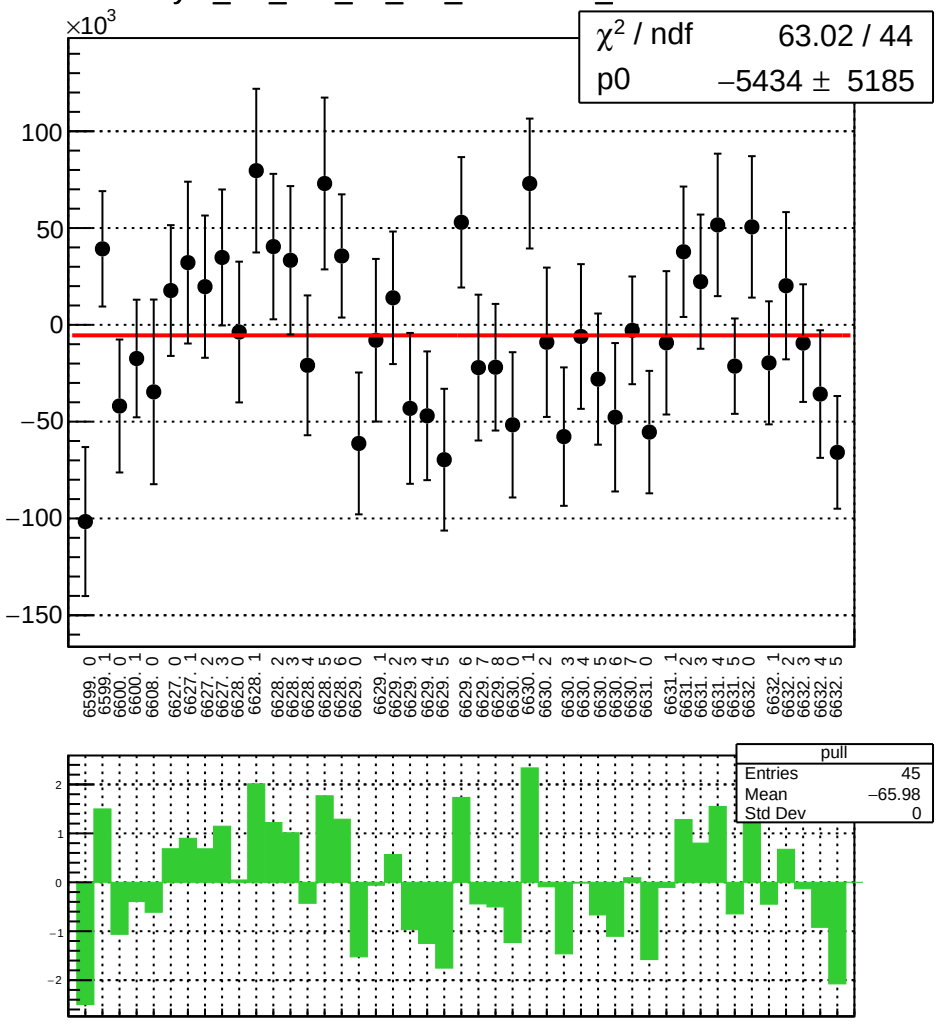
6632. 2
6632. 3
6632. 4
6632. 5


asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 63.02 / 44
p0 −5434 ± 5185
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
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6628. 6
6629. 0
6629. 1
6629. 2
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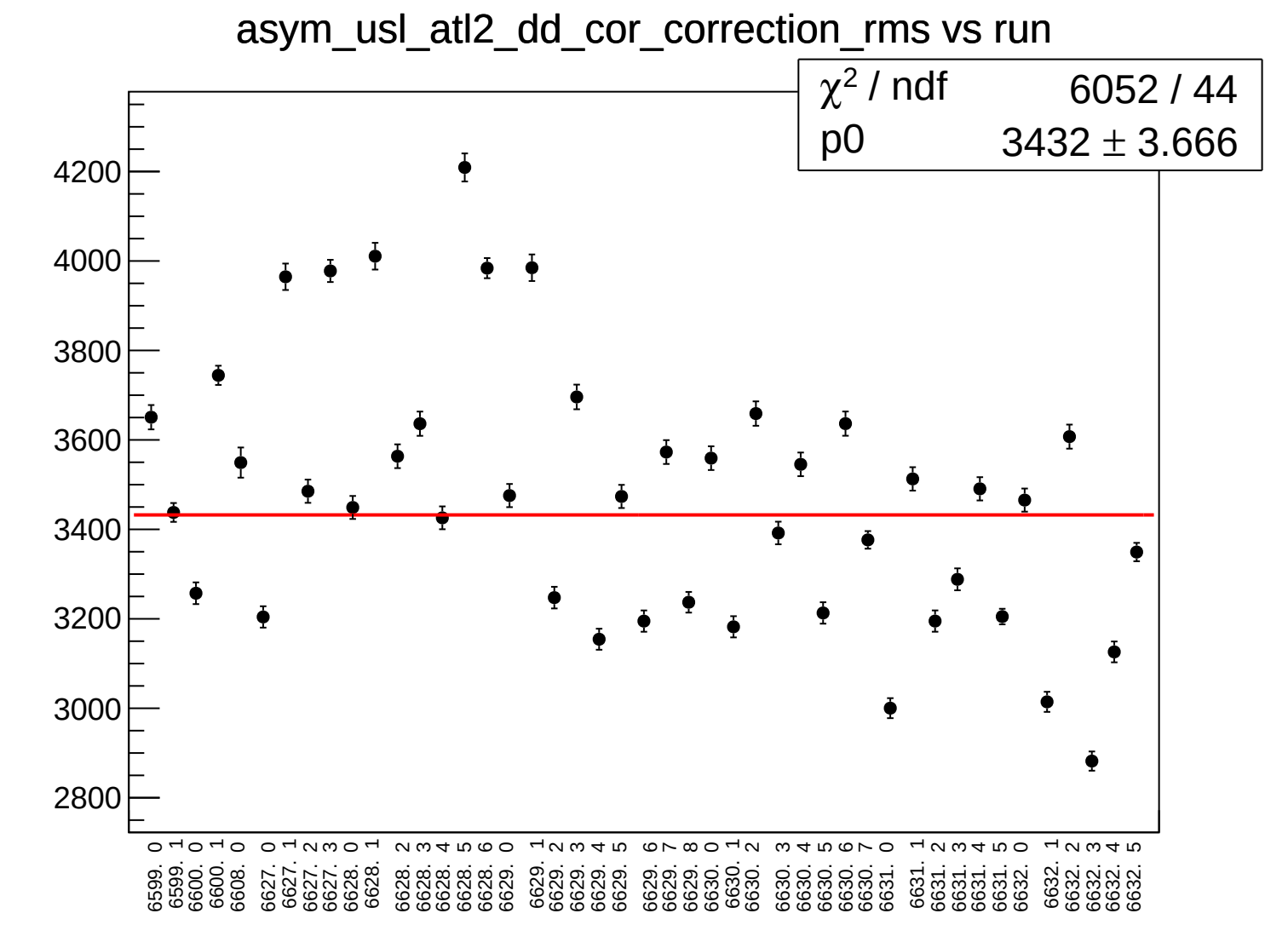
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −65.98
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01922
Std Dev 1.183
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 6052 / 44
p0 3432 ± 3.666
4200
4000
3800
3600
3400
3200
3000
2800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
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6629. 0
6629. 1
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
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6630. 6
6630. 7
6631. 0
6631. 1
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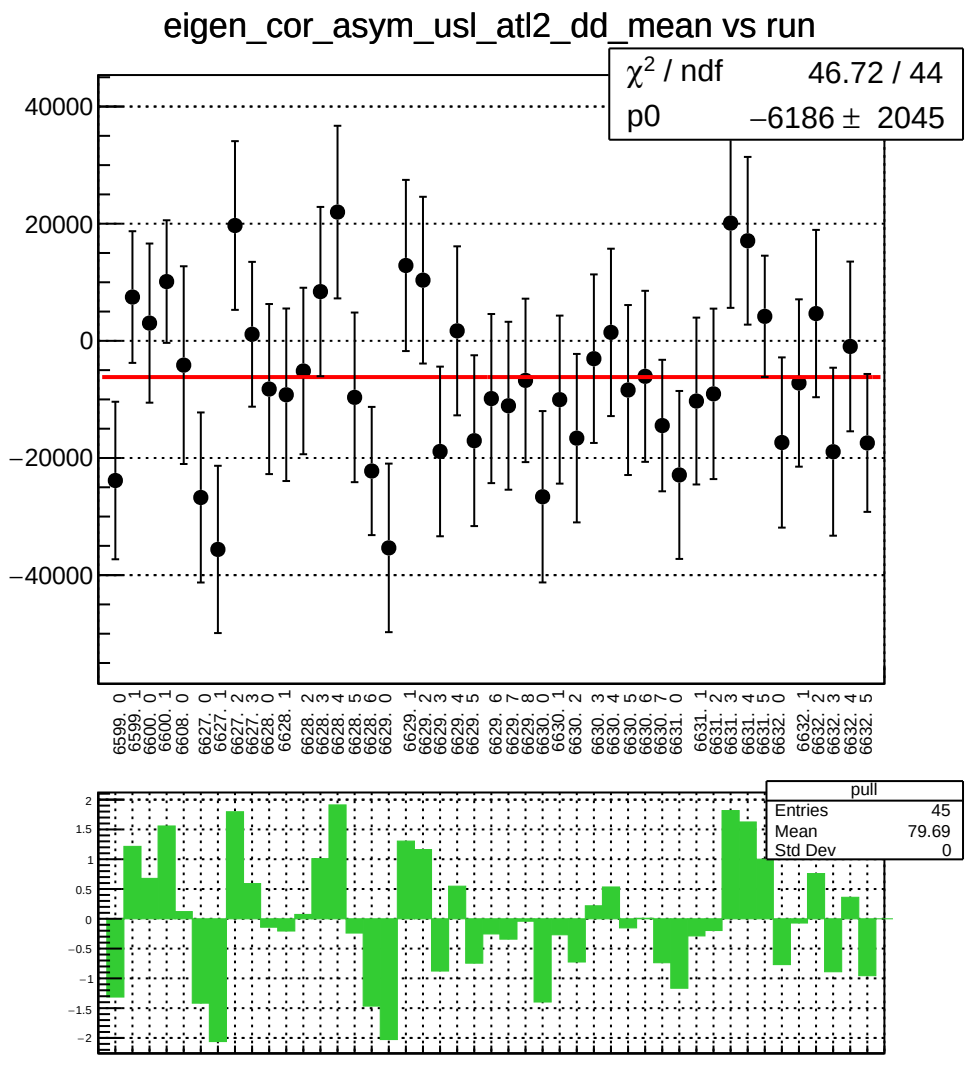
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 46.72 / 44
p0 −6186 ± 2045
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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6629. 0
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6629. 2
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6629. 7
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6630. 0
6630. 1
6630. 2
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 79.69
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.009884
Std Dev 1.019
10
8
6
4
2
0
−8
−6
−4
−2
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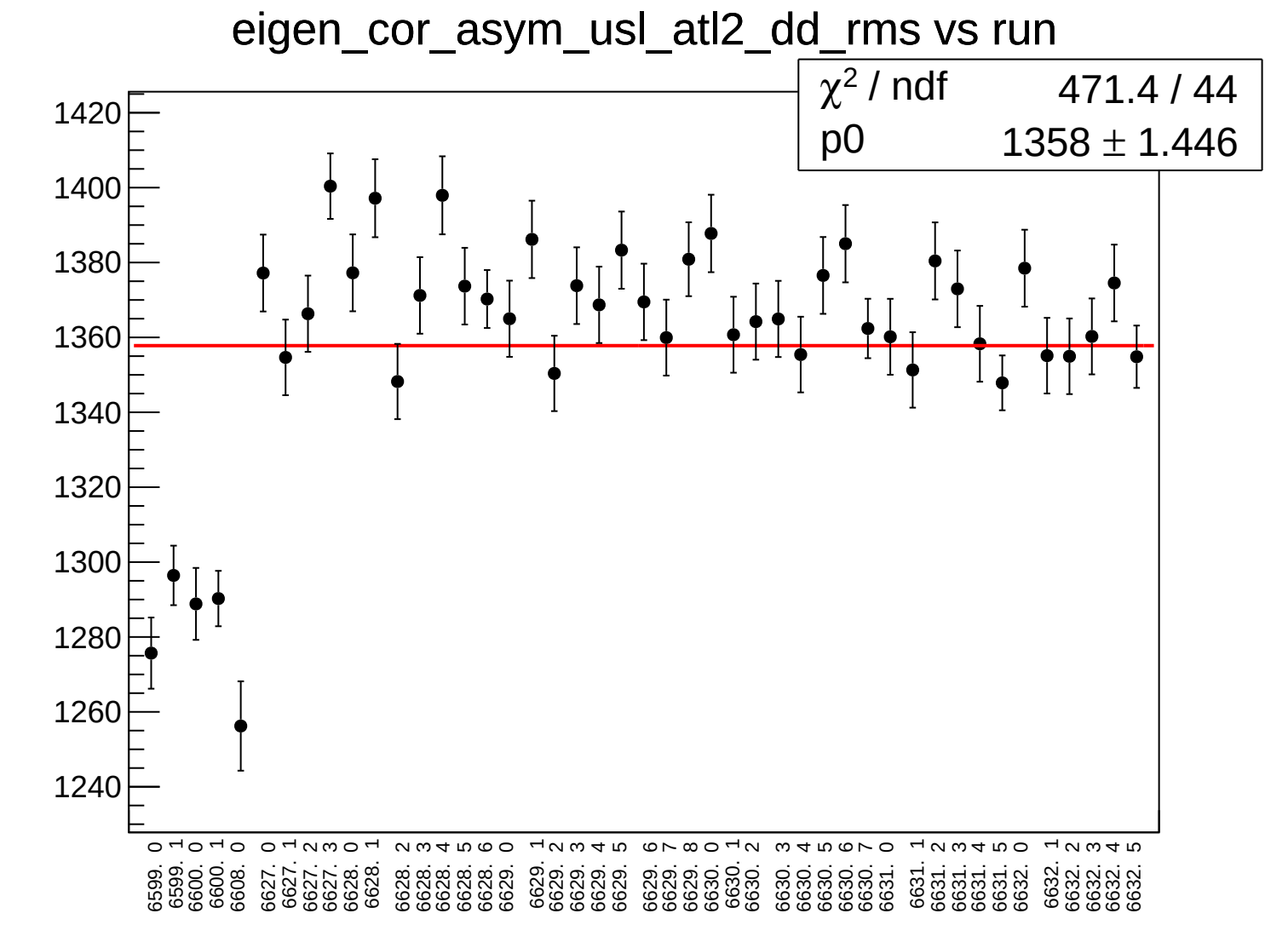
2
4
6
8


eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 471.4 / 44
p0 1358 ± 1.446
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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6629. 2
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6629. 4
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6630. 0
6630. 1
6630. 2
6630. 3
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6631. 1
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6632. 0
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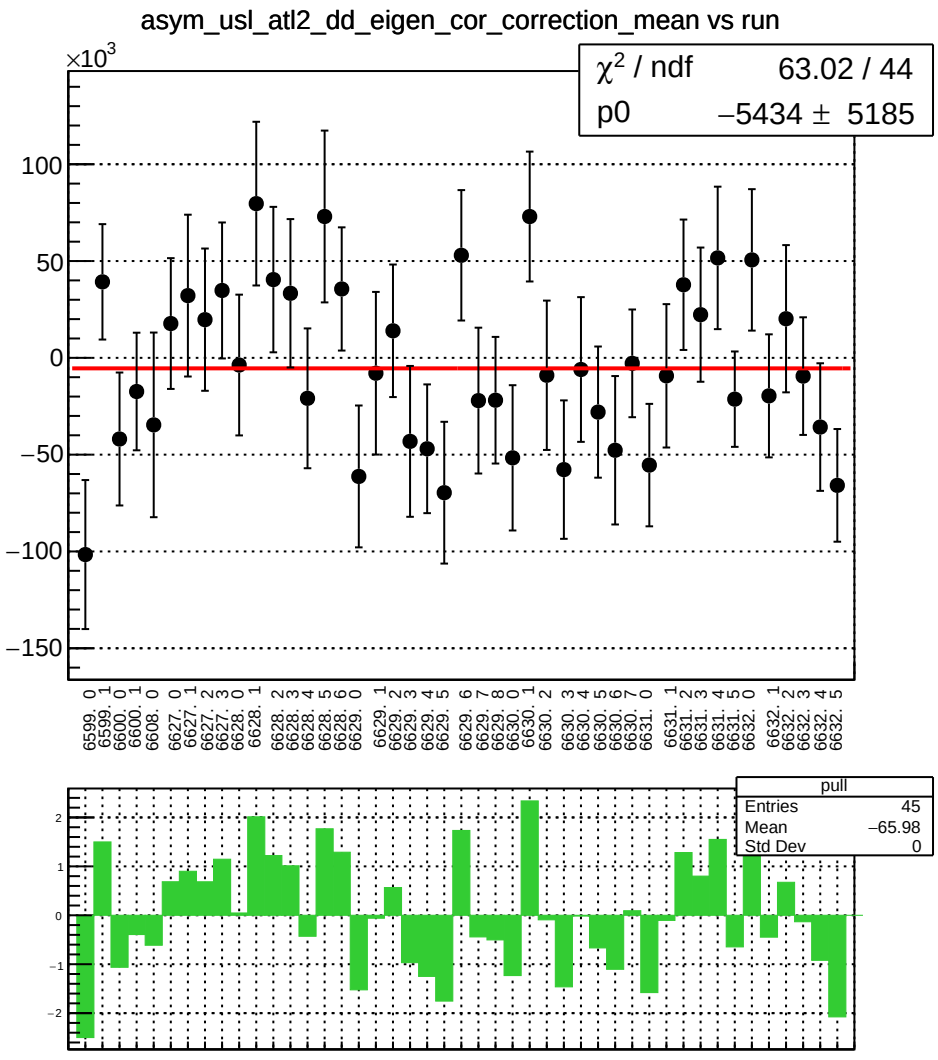
6632. 4
6632. 5


asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 63.02 / 44
p0 −5434 ± 5185
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 8
6630. 0
6630. 1
6630. 2
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −65.98
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01922
Std Dev 1.183
7
6
5
4
3
2
1
0
−8
−6
−4
−2
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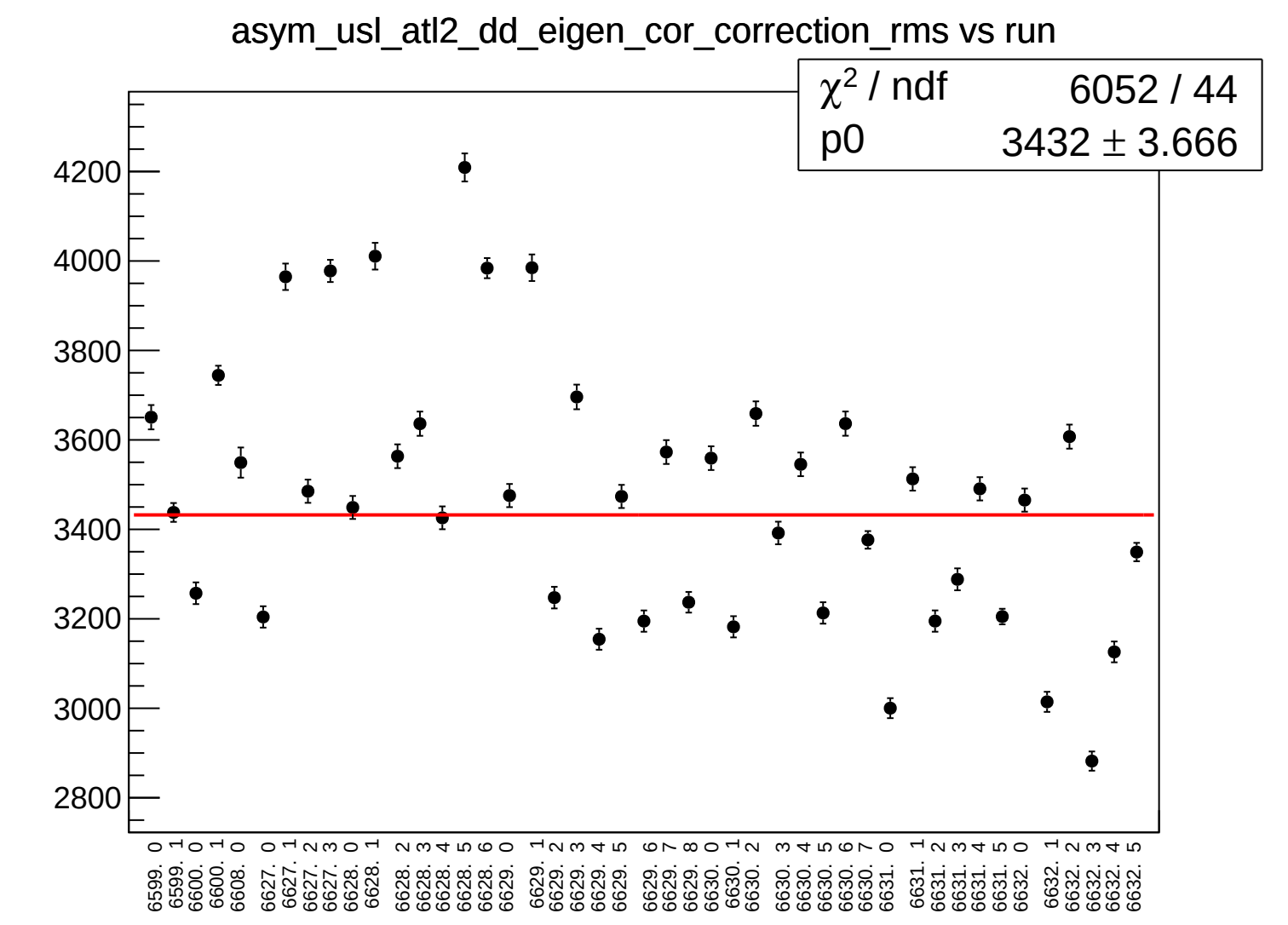
2
4
6
8


asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 6052 / 44
p0 3432 ± 3.666
4200
4000
3800
3600
3400
3200
3000
2800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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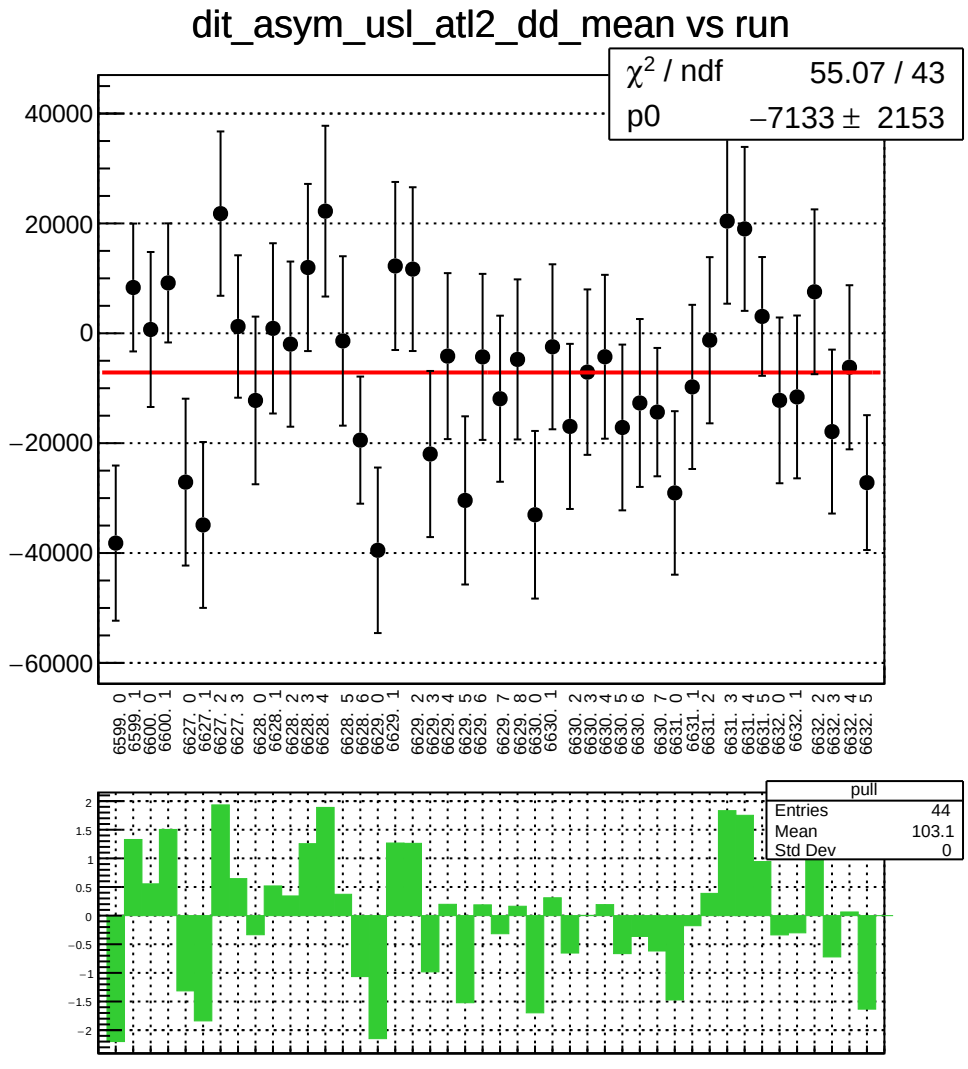
6632. 5


dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 55.07 / 43
p0 −7133 ± 2153
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
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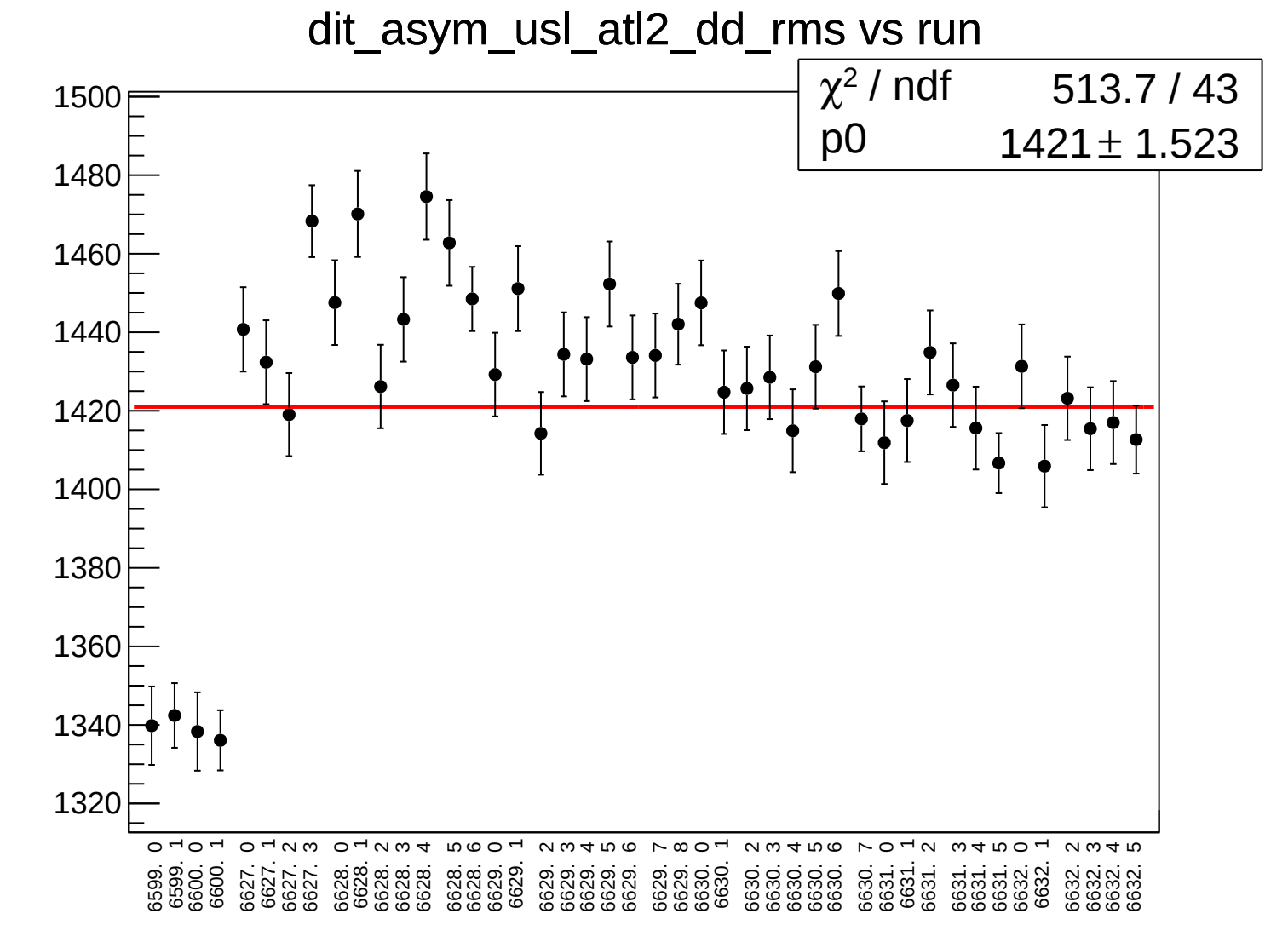
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 44
Mean 103.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 44
Mean −0.01051
Std Dev 1.119
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 513.7 / 43
p0 1421 ± 1.523
1500
1480
1460
1440
1420
1400
1380
1360
1340
1320
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
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6630. 1
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6631. 0
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6632. 2
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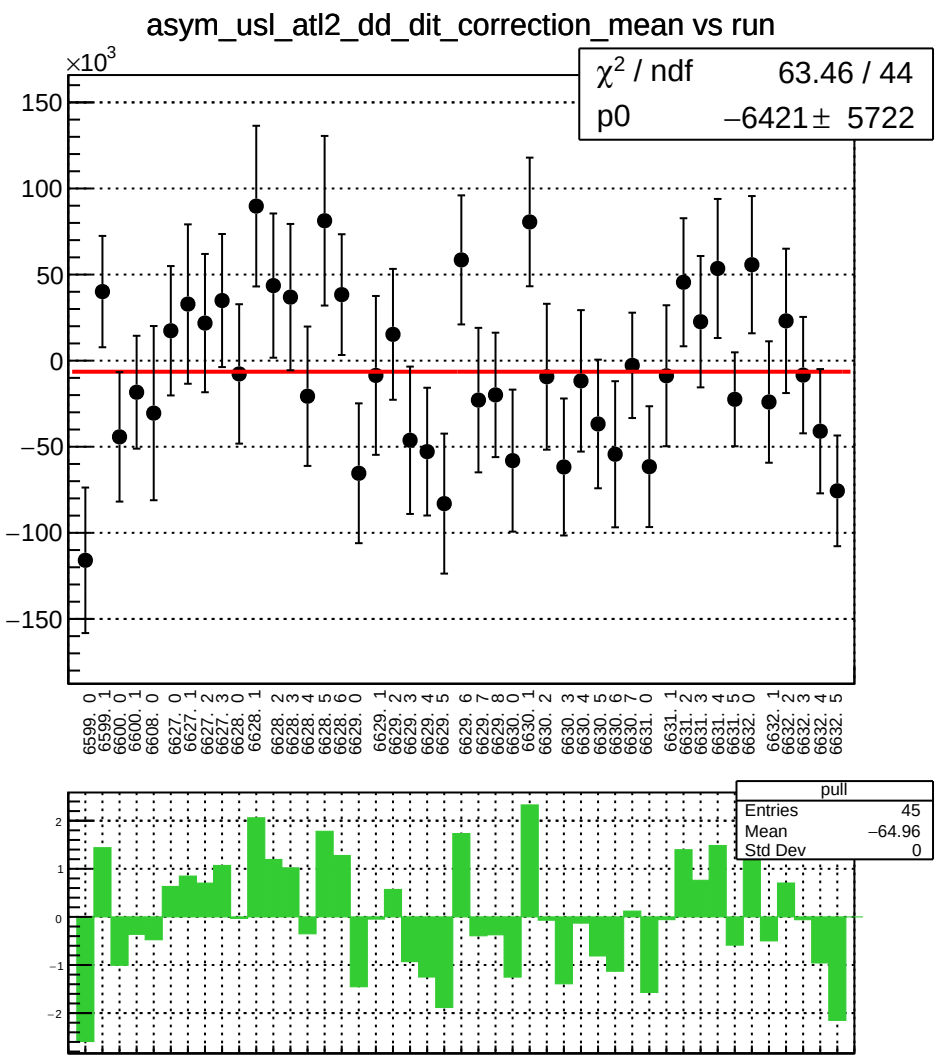
asym_usl_atl2_dd_dit_correction_mean vs run
χ² / ndf 63.46 / 44
p0 −6421 ± 5722
×10³
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
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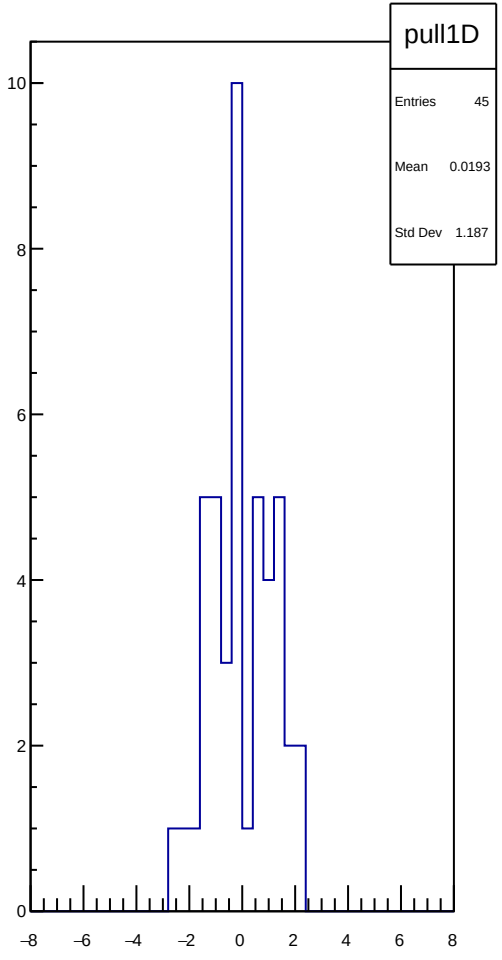
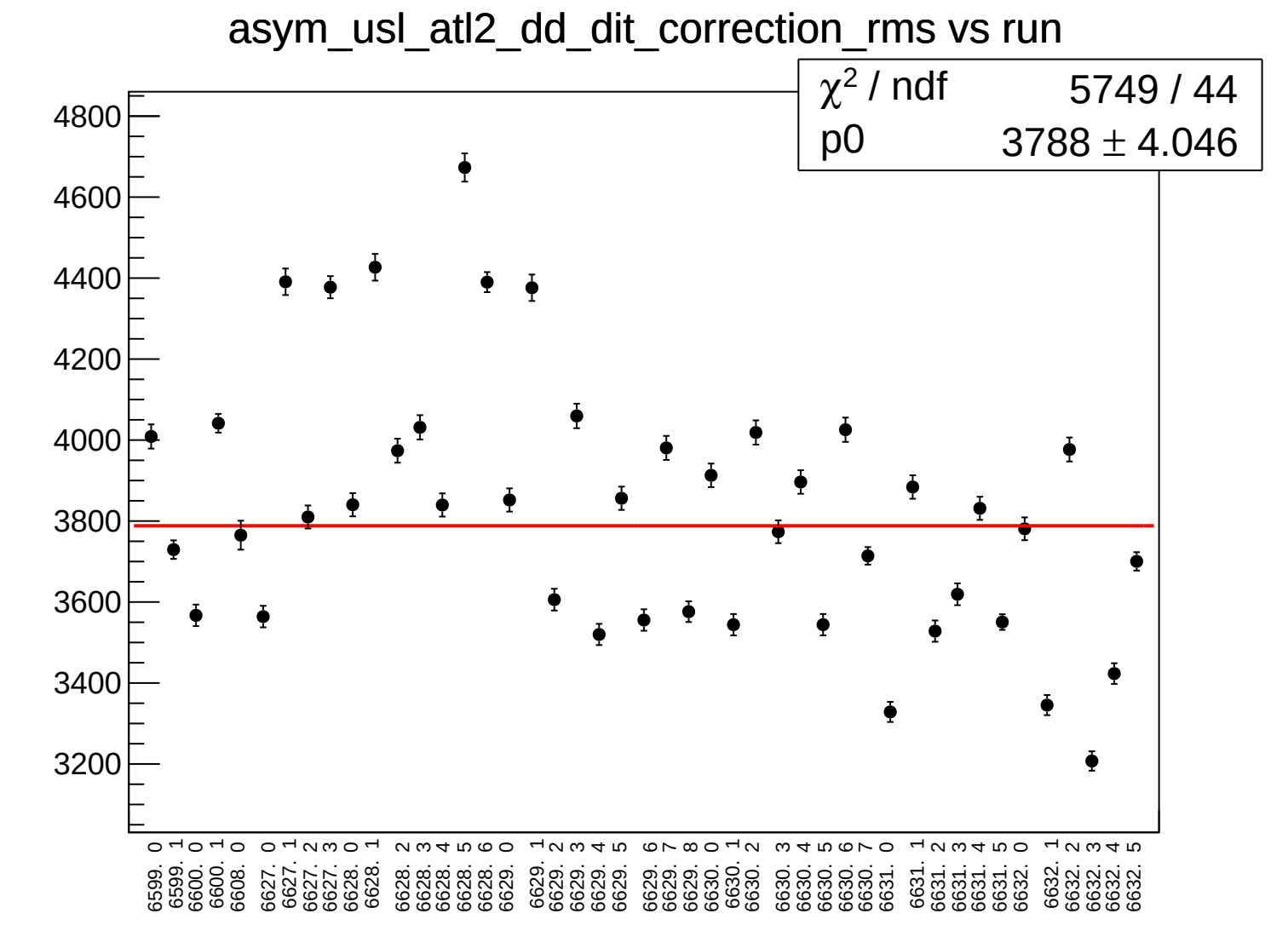
6632. 4
6632. 5
pull
Entries 45
Mean −64.96
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.0193
Std Dev 1.187
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 5749 / 44
p0 3788 ± 4.046
4800
4600
4400
4200
4000
3800
3600
3400
3200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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6628. 0
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6629. 0
6629. 1
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6629. 8
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6630. 1
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6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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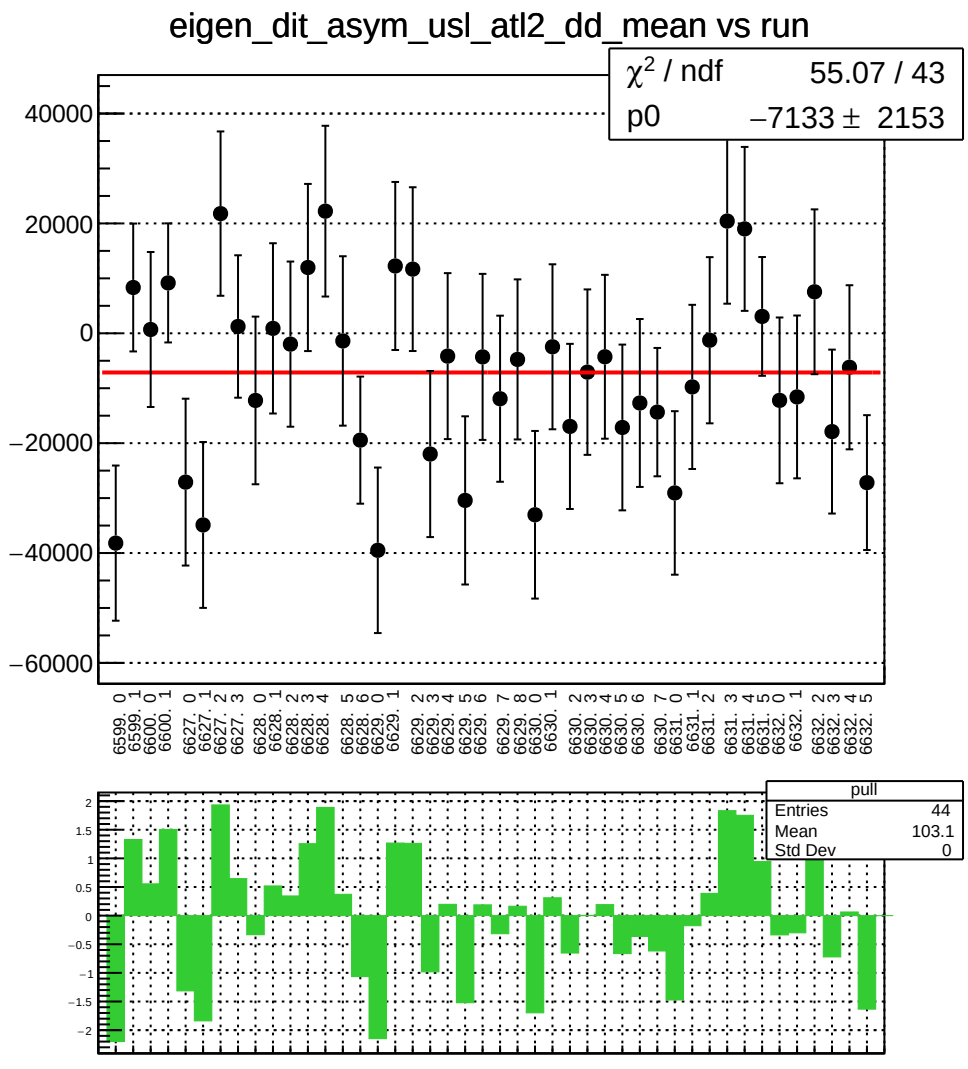
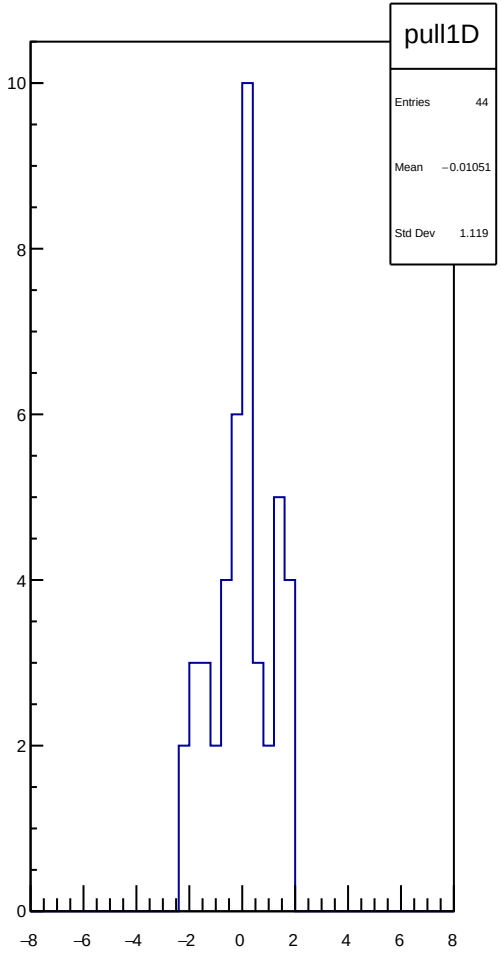
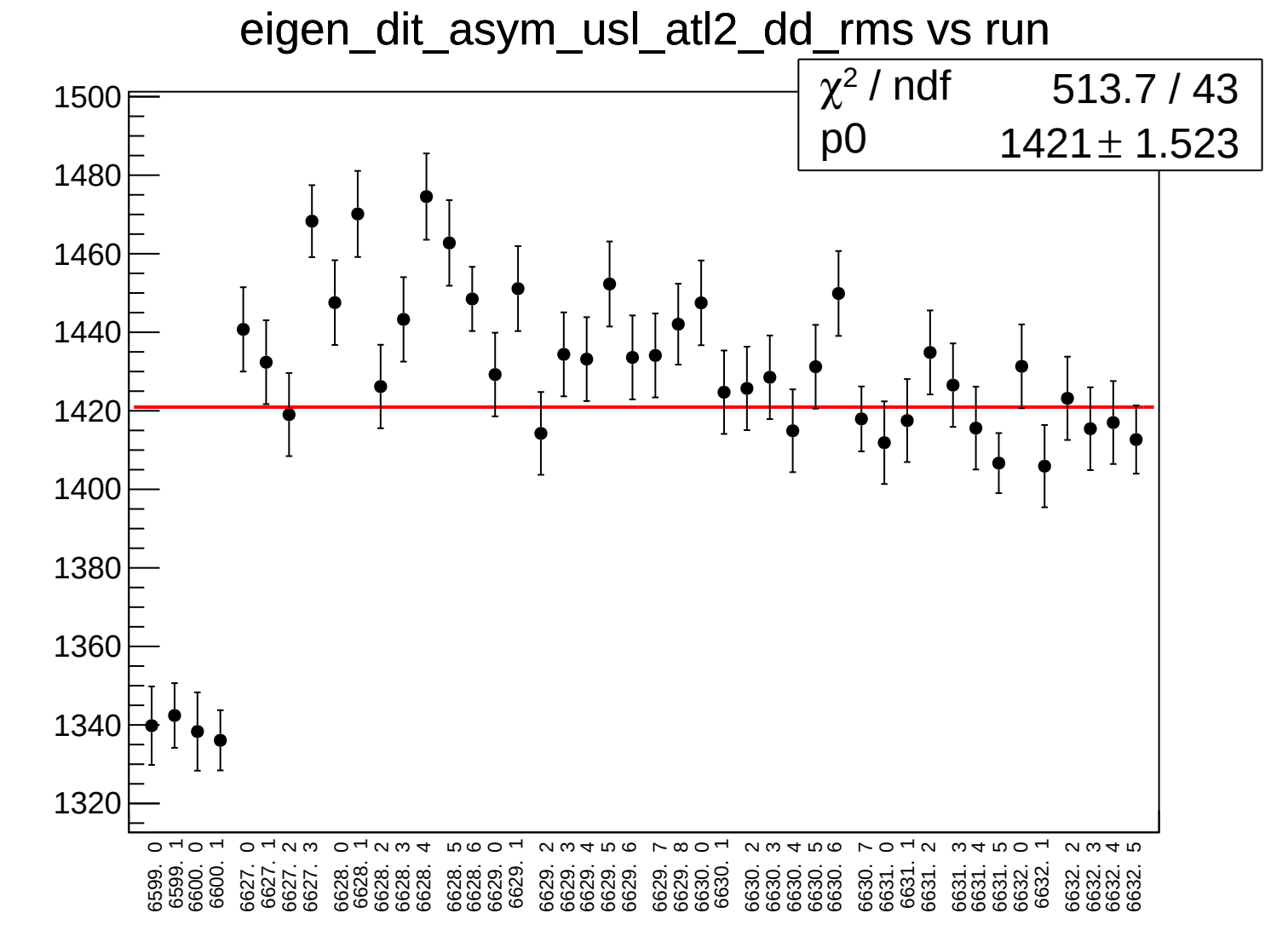
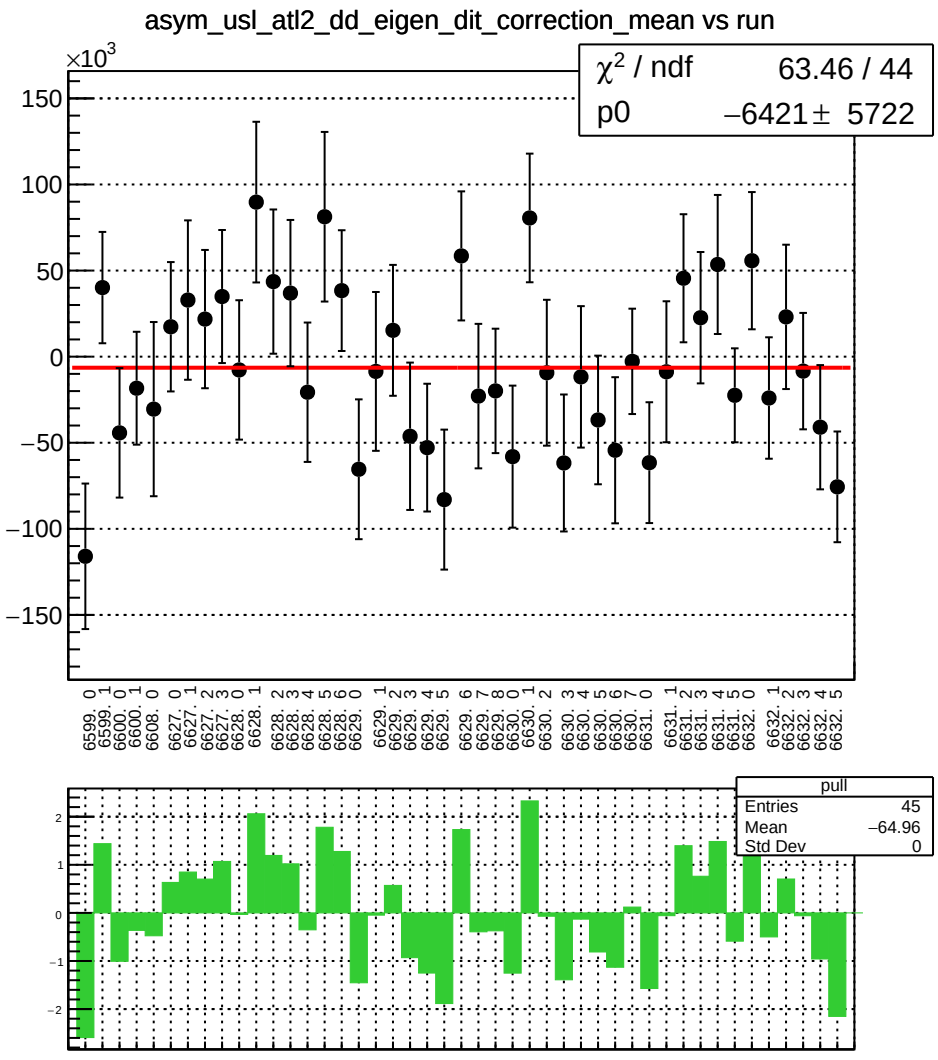
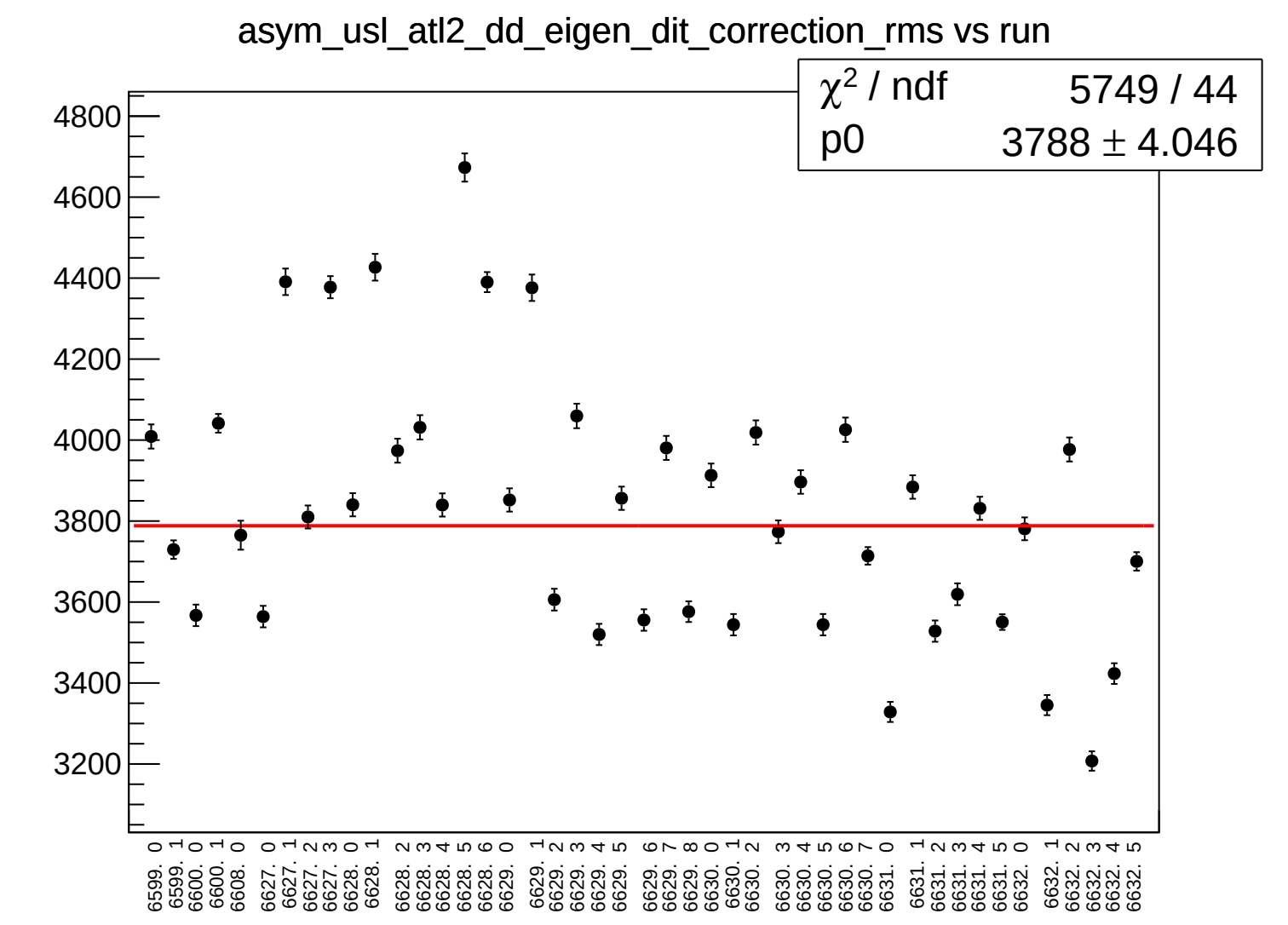
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

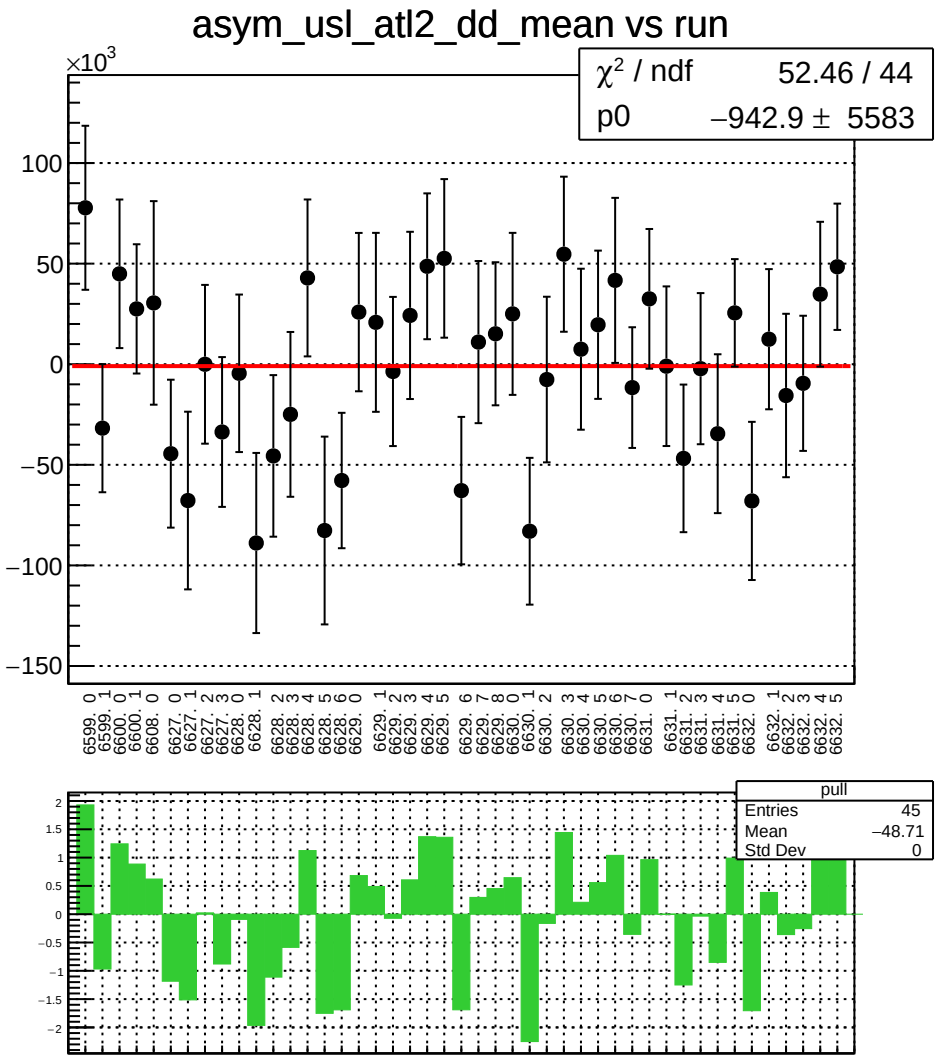

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 55.07 / 43
p0 −7133 ± 2153
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 44
Mean 103.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

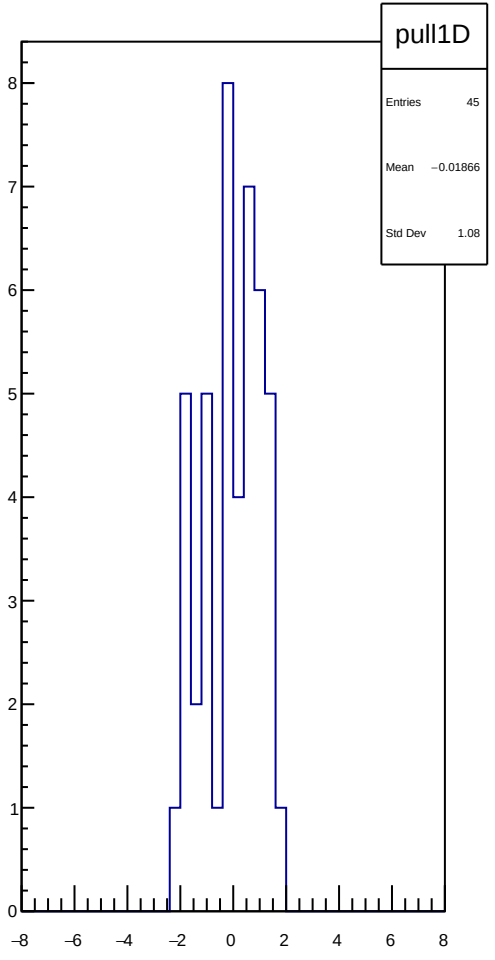

pull1D
Entries 44
Mean −0.01051
Std Dev 1.119
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

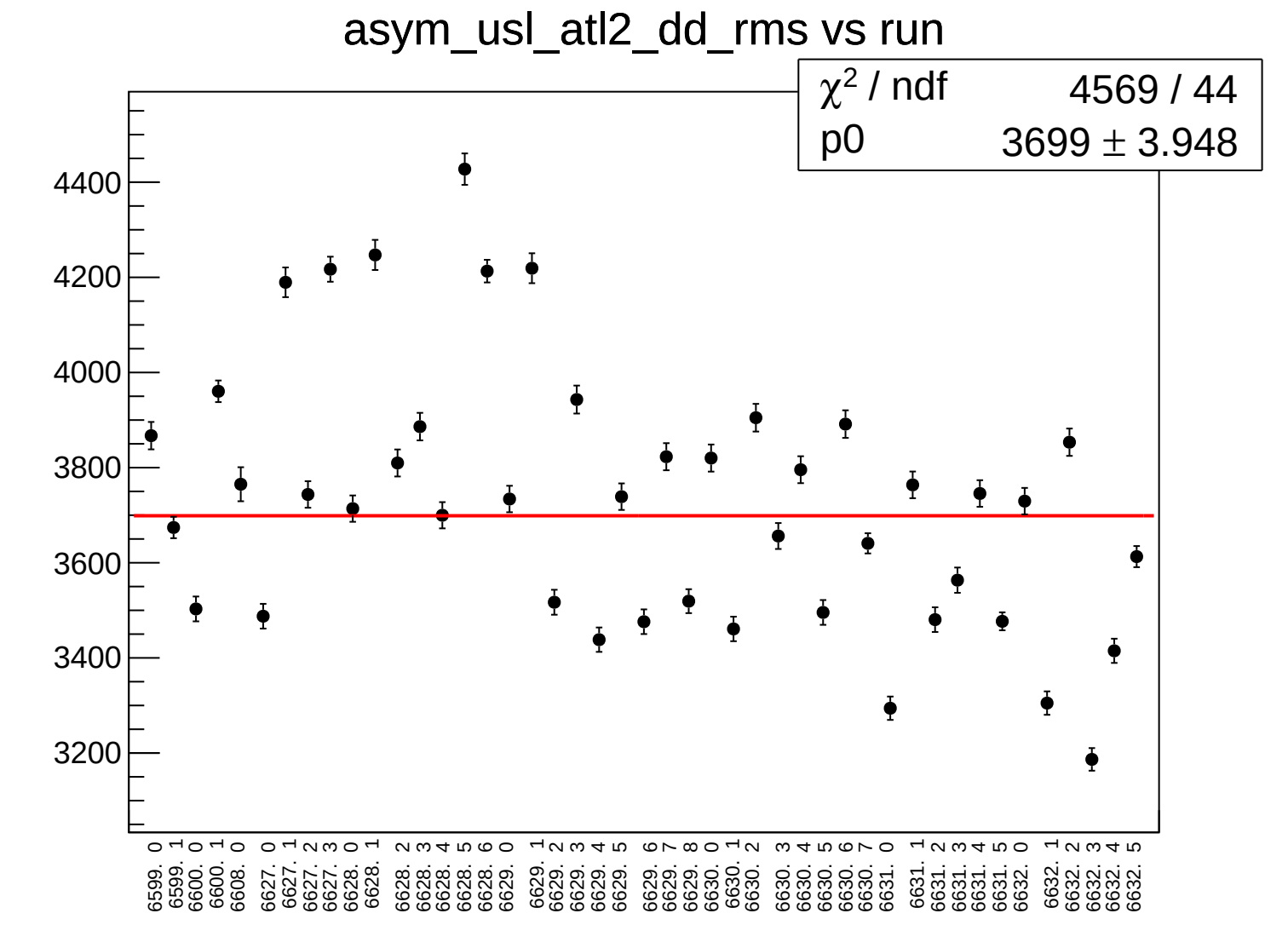

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 513.7 / 43
p0 1421 ± 1.523
1500
1480
1460
1440
1420
1400
1380
1360
1340
1320
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

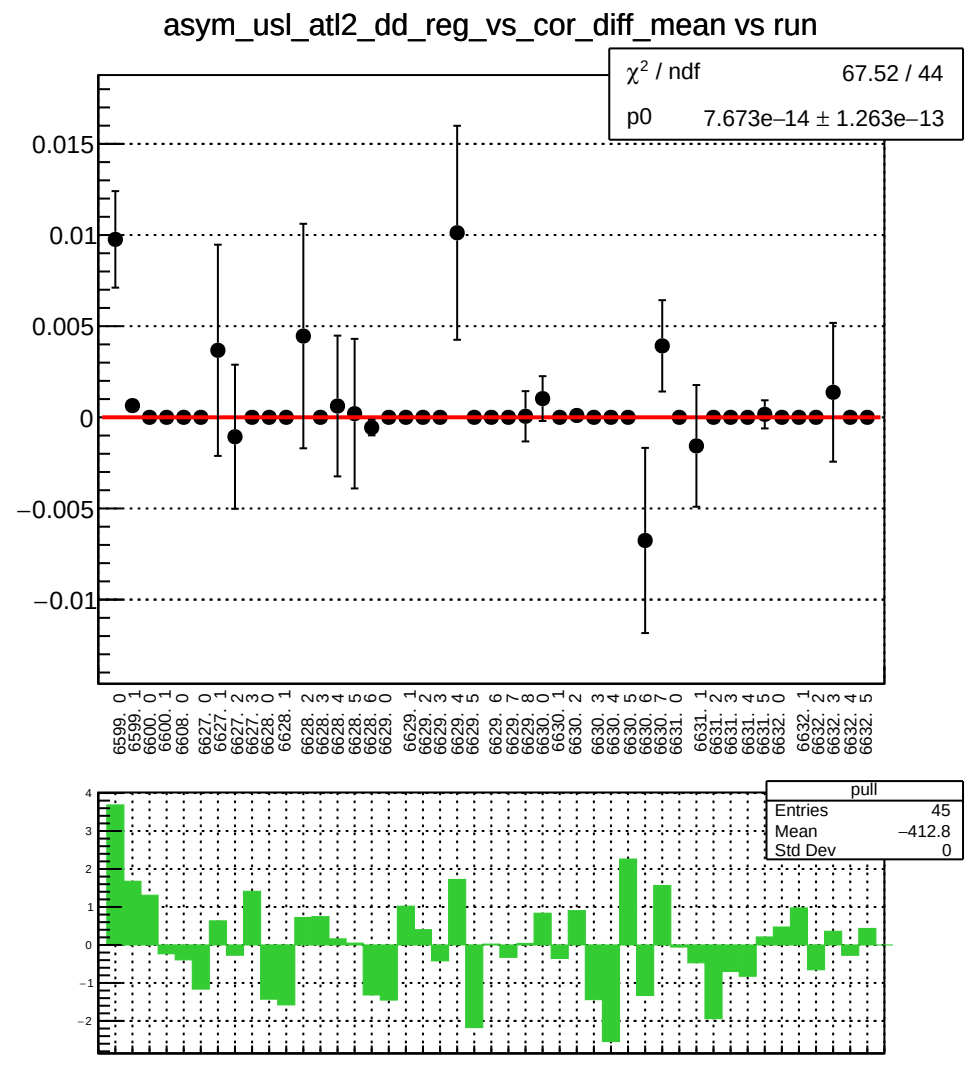

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 63.46 / 44
p0 −6421 ± 5722
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −64.96
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.0193
Std Dev 1.187
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

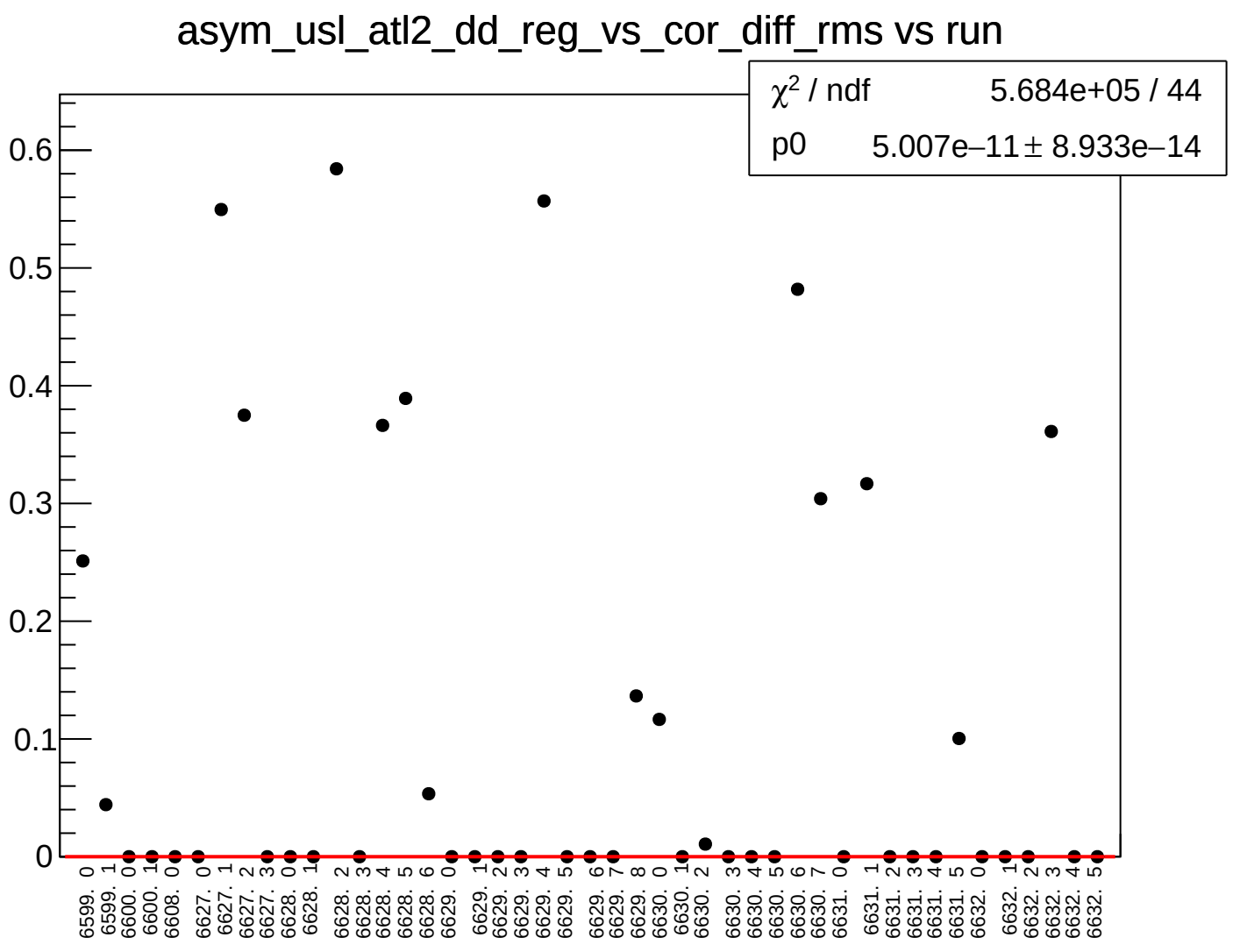

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 5749 / 44
p0 3788 ± 4.046
4800
4600
4400
4200
4000
3800
3600
3400
3200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

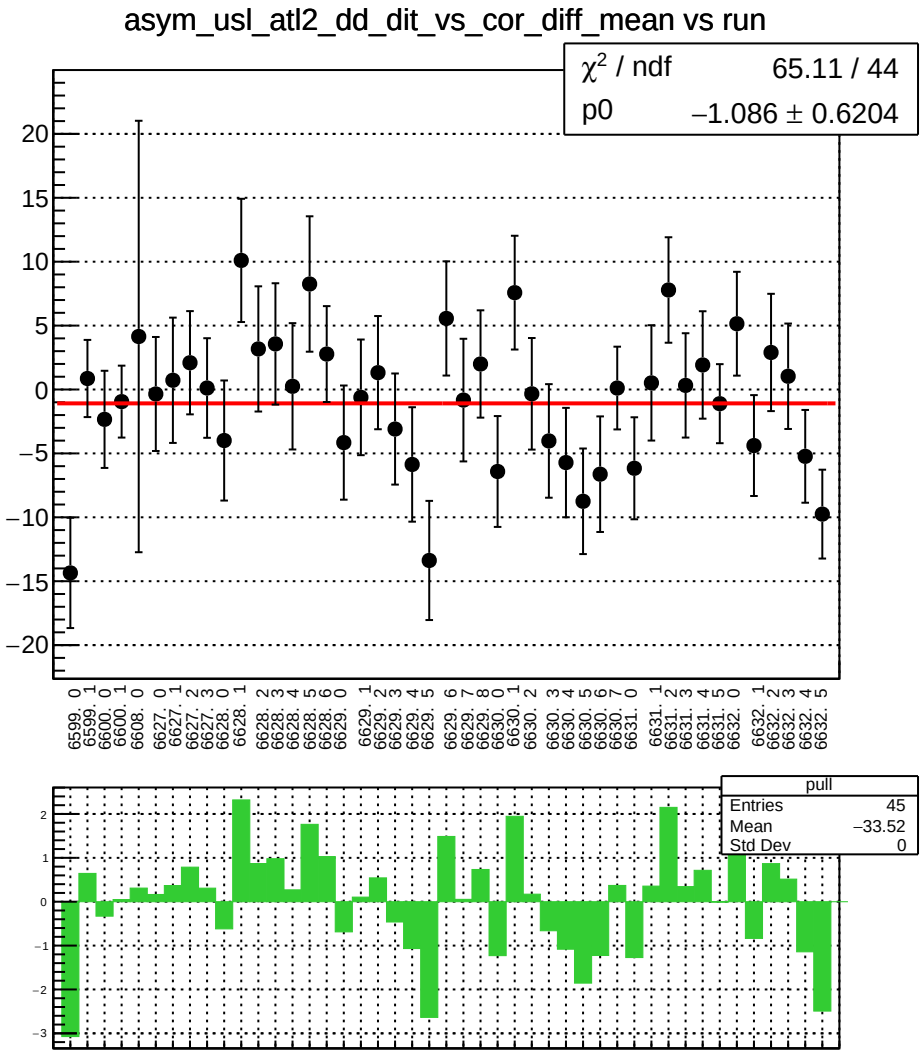

asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 52.46 / 44
p0 −942.9 ± 5583
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −48.71
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

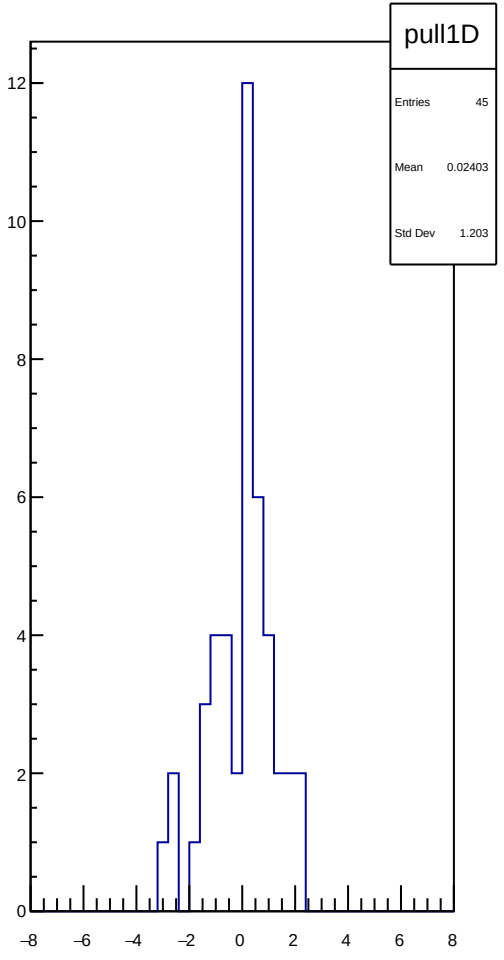

pull1D
Entries 45
Mean −0.01866
Std Dev 1.08
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

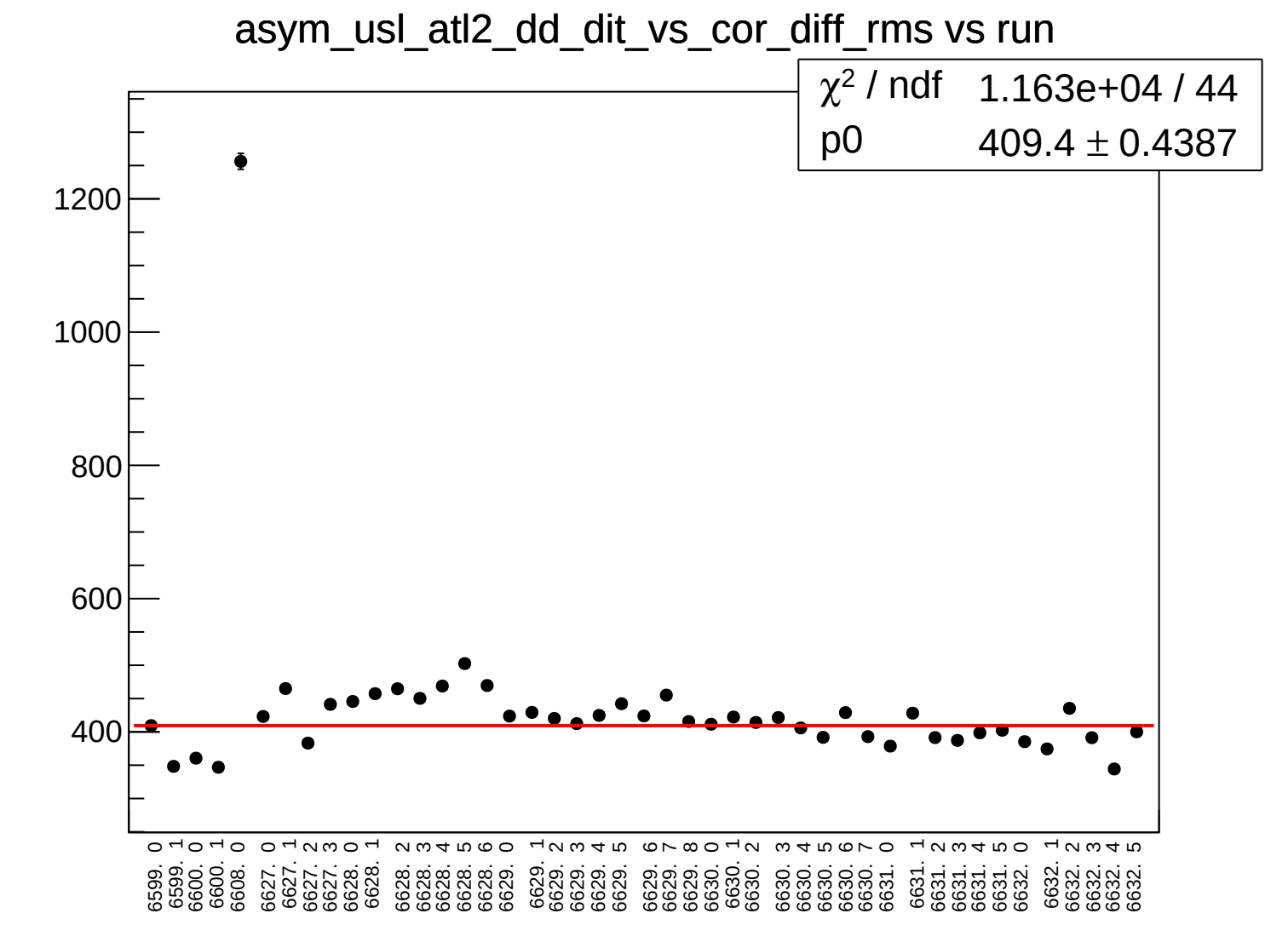

asym_usl_atl2_dd_rms vs run
χ² / ndf 4569 / 44
p0 3699 ± 3.948
4400
4200
4000
3800
3600
3400
3200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

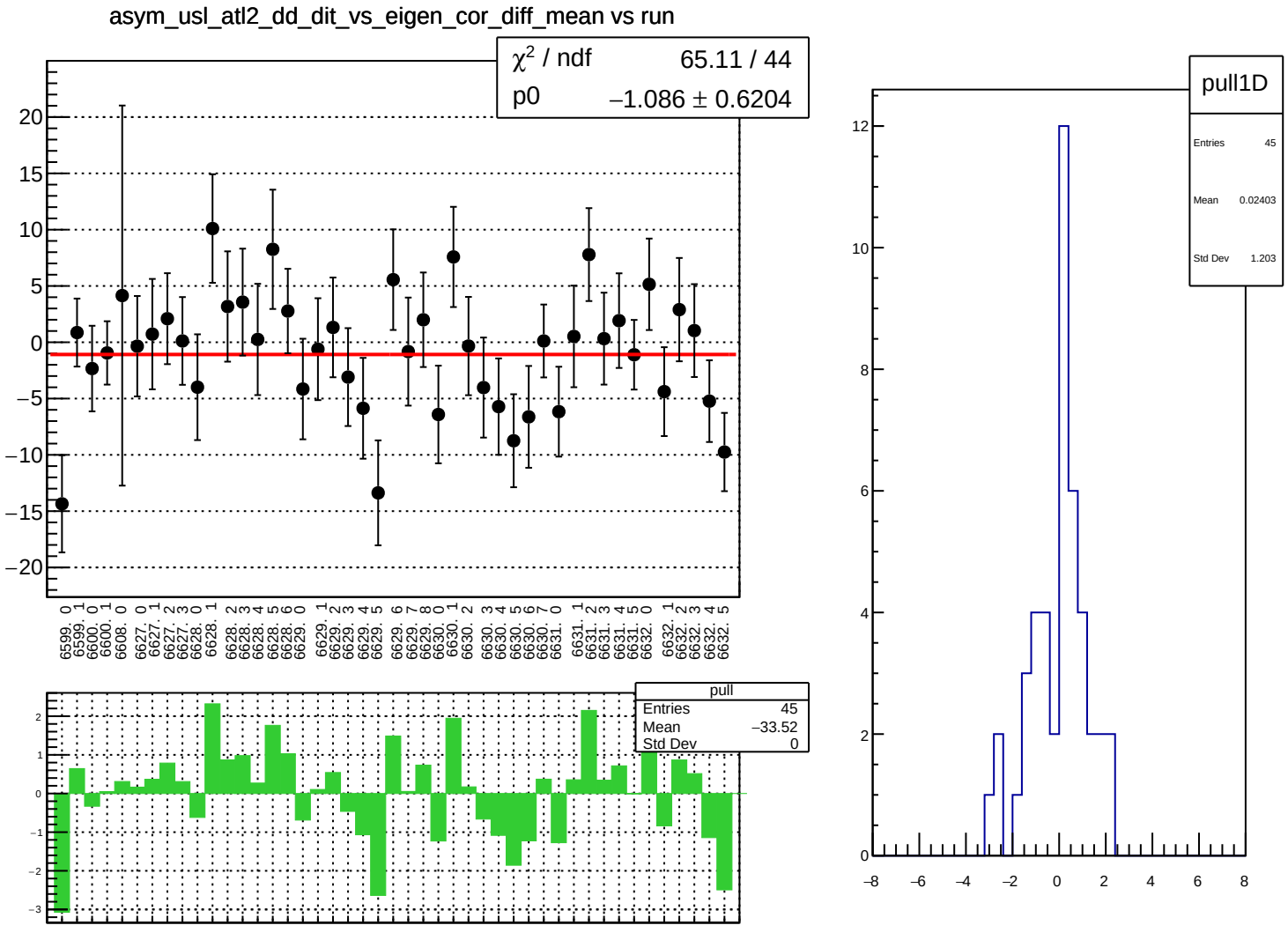

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 67.52 / 44
p0 7.673e−14 ± 1.263e−13
0.015
0.01
0.005
0
−0.005
−0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −412.8
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.006691
Std Dev 1.225
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

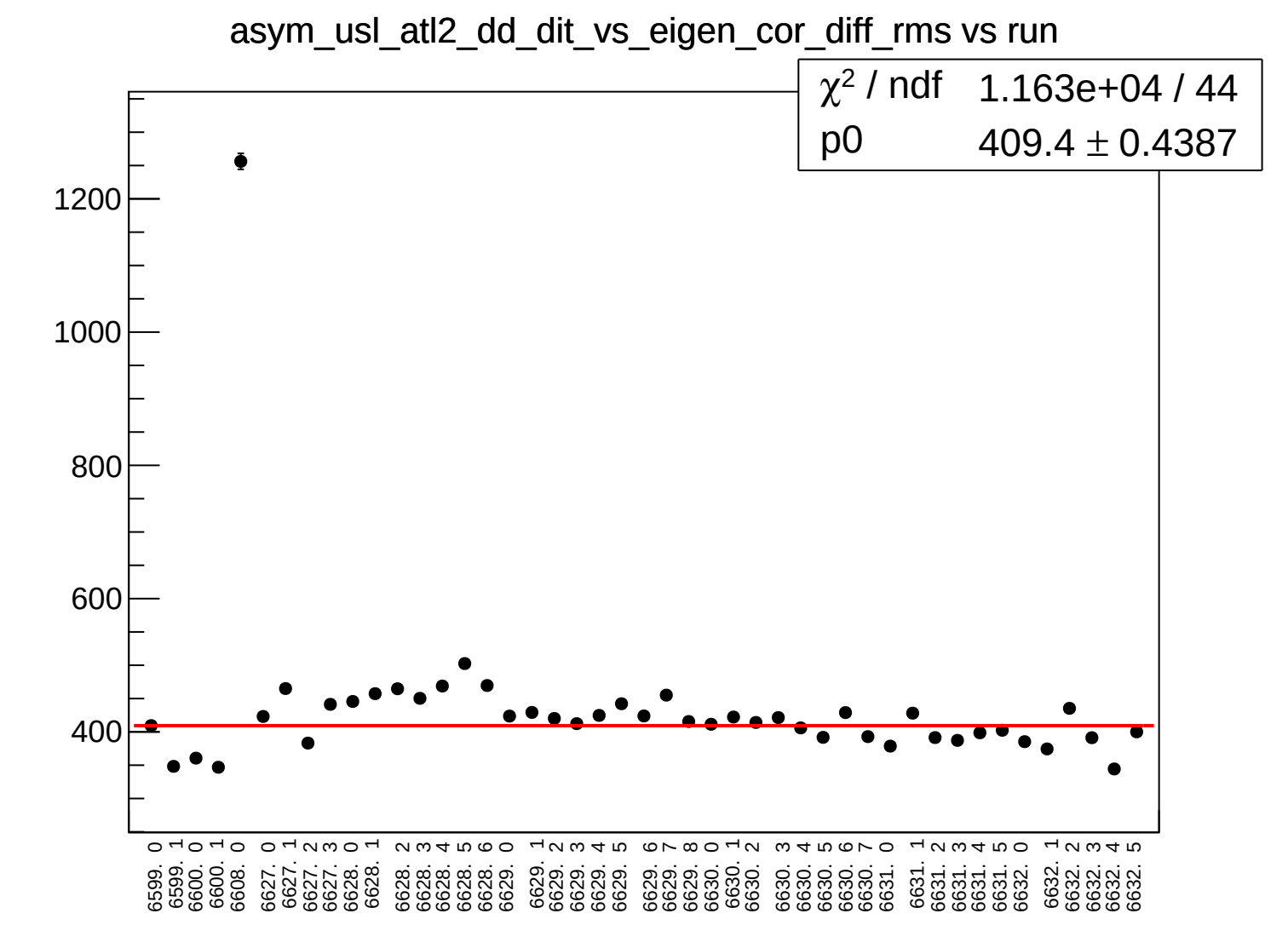

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.684e+05 / 44
p0 5.007e−11 ± 8.933e−14
0.6
0.5
0.4
0.3
0.2
0.1
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

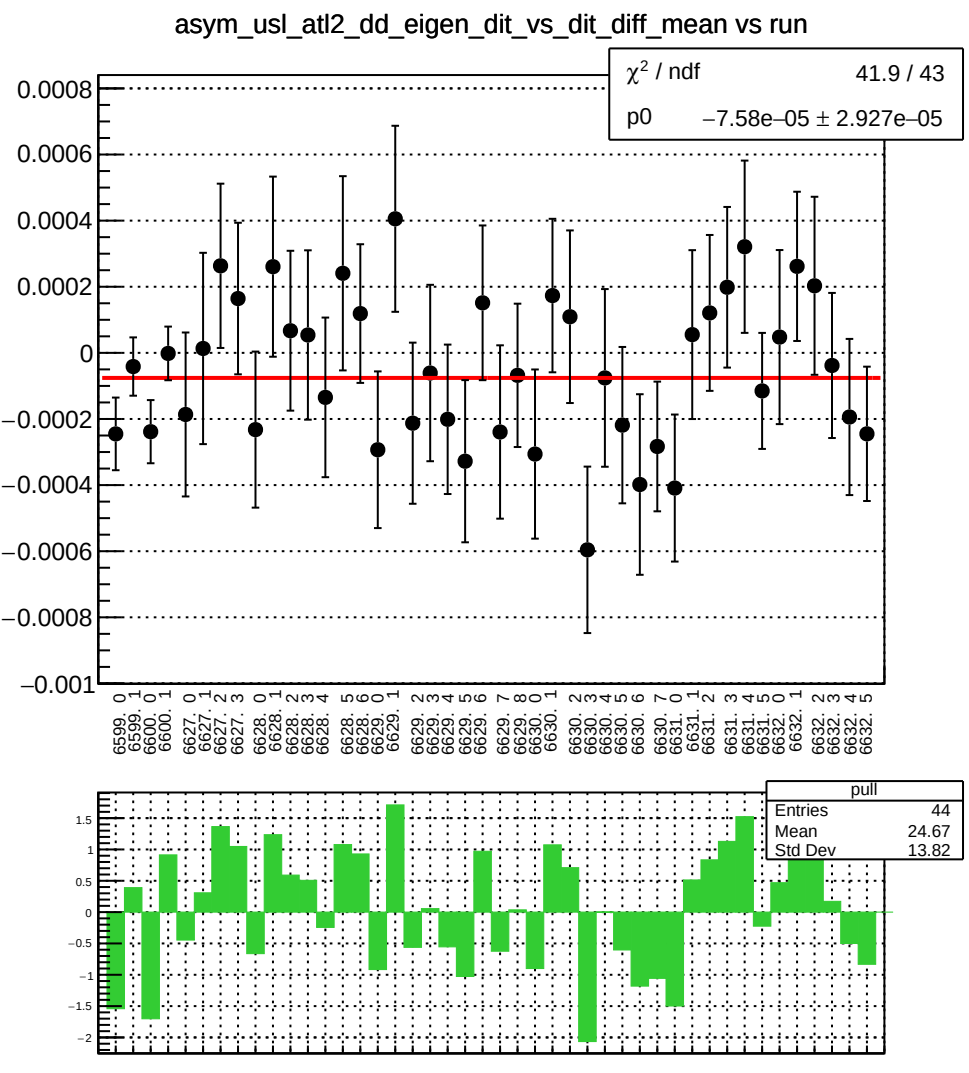

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 65.11 / 44
p0 −1.086 ± 0.6204
pull
Entries 45
Mean −33.52
Std Dev 0

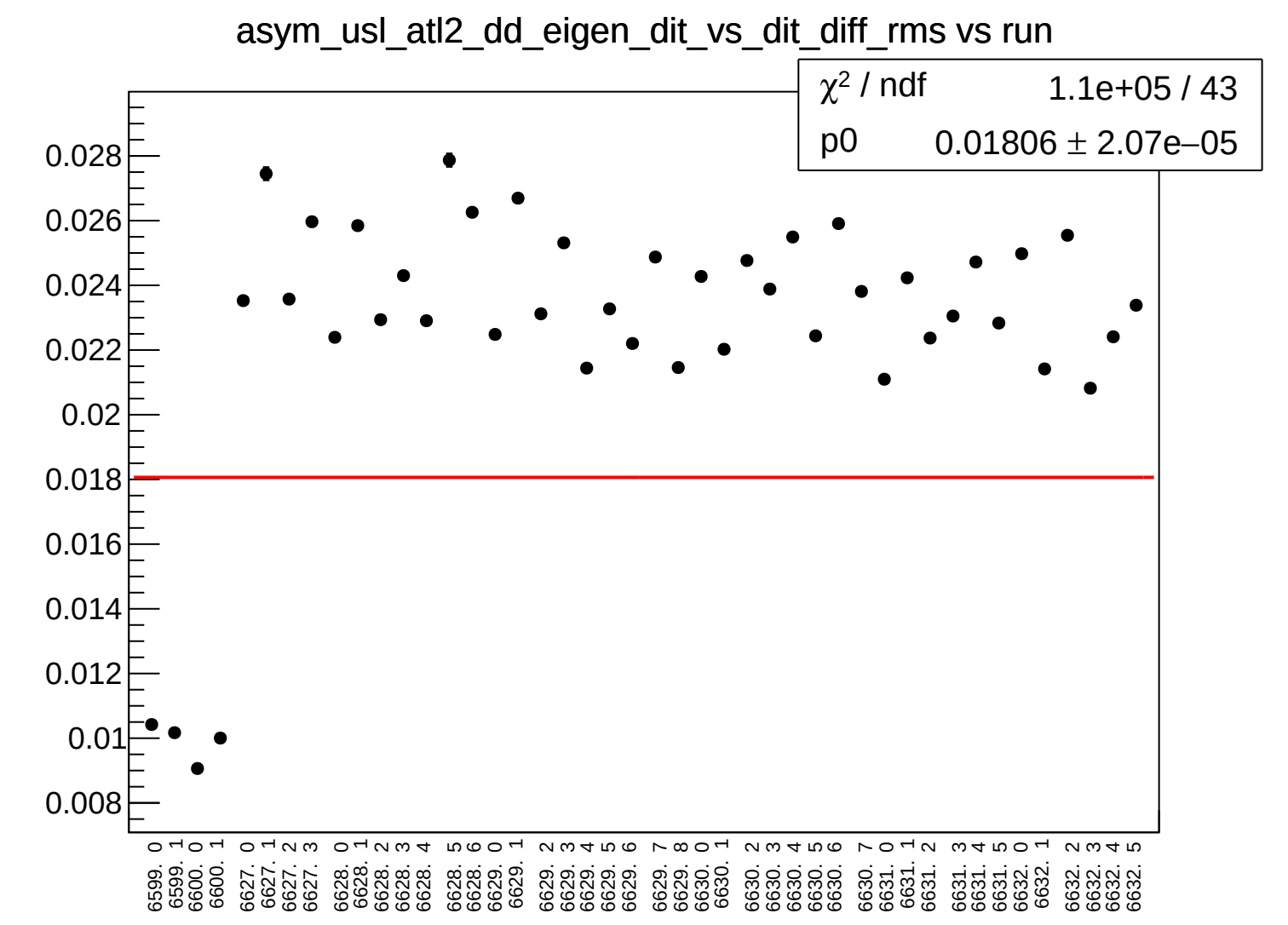

pull1D
Entries 45
Mean 0.02403
Std Dev 1.203

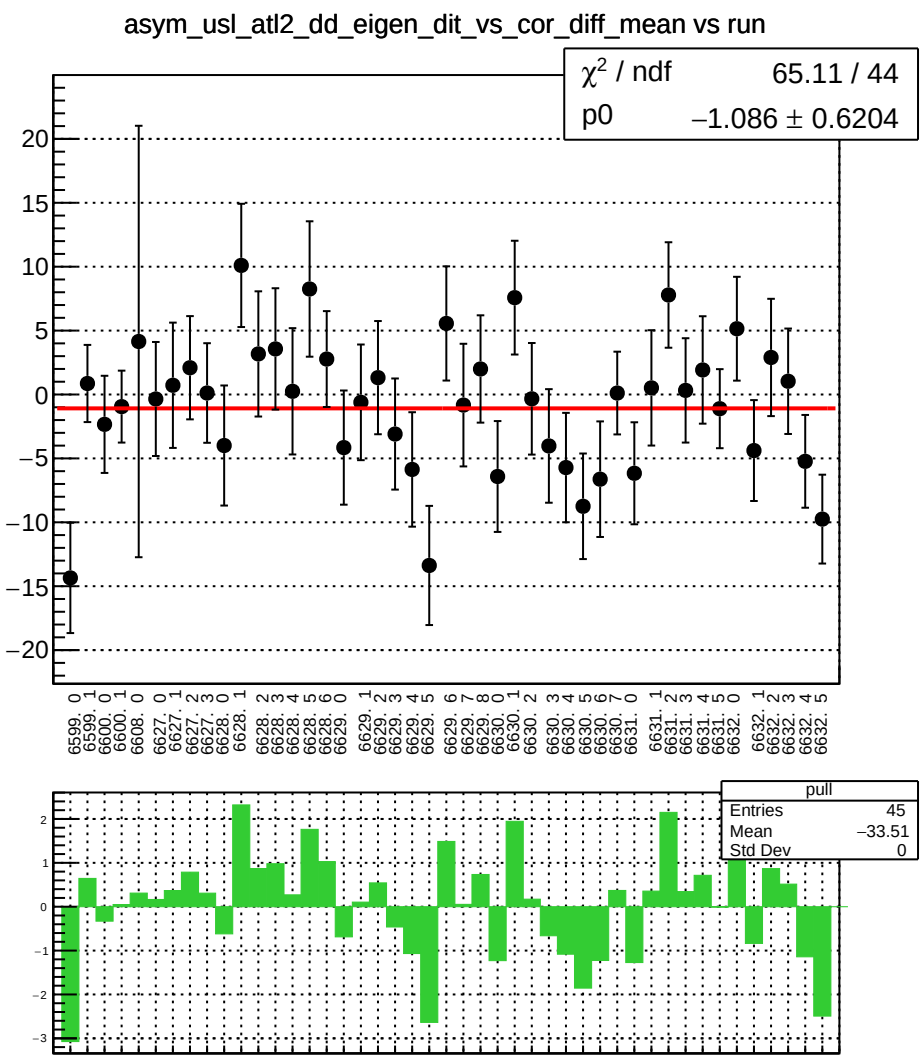

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.163e+04 / 44
p0 409.4 ± 0.4387
1200
1000
800
600
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

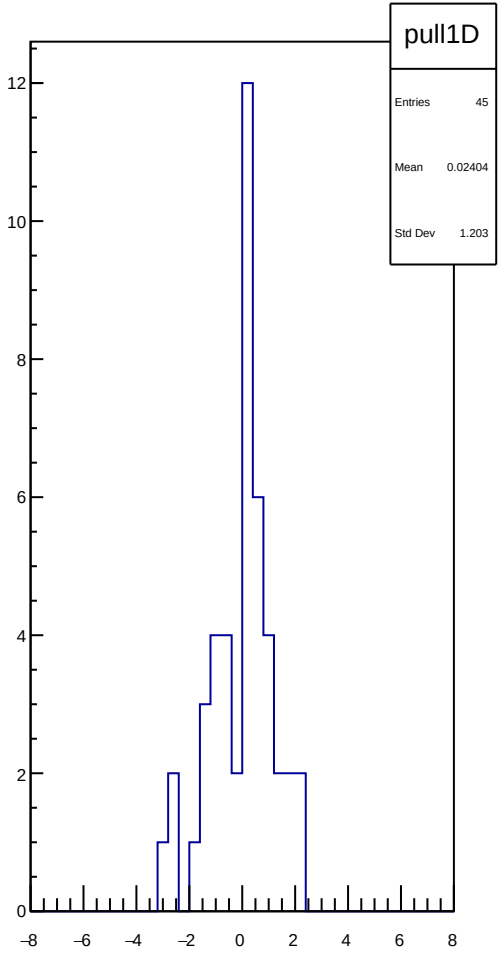

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.11 / 44
p0 −1.086 ± 0.6204
pull
Entries 45
Mean −33.52
Std Dev 0
pull1D
Entries 45
Mean 0.02403
Std Dev 1.203

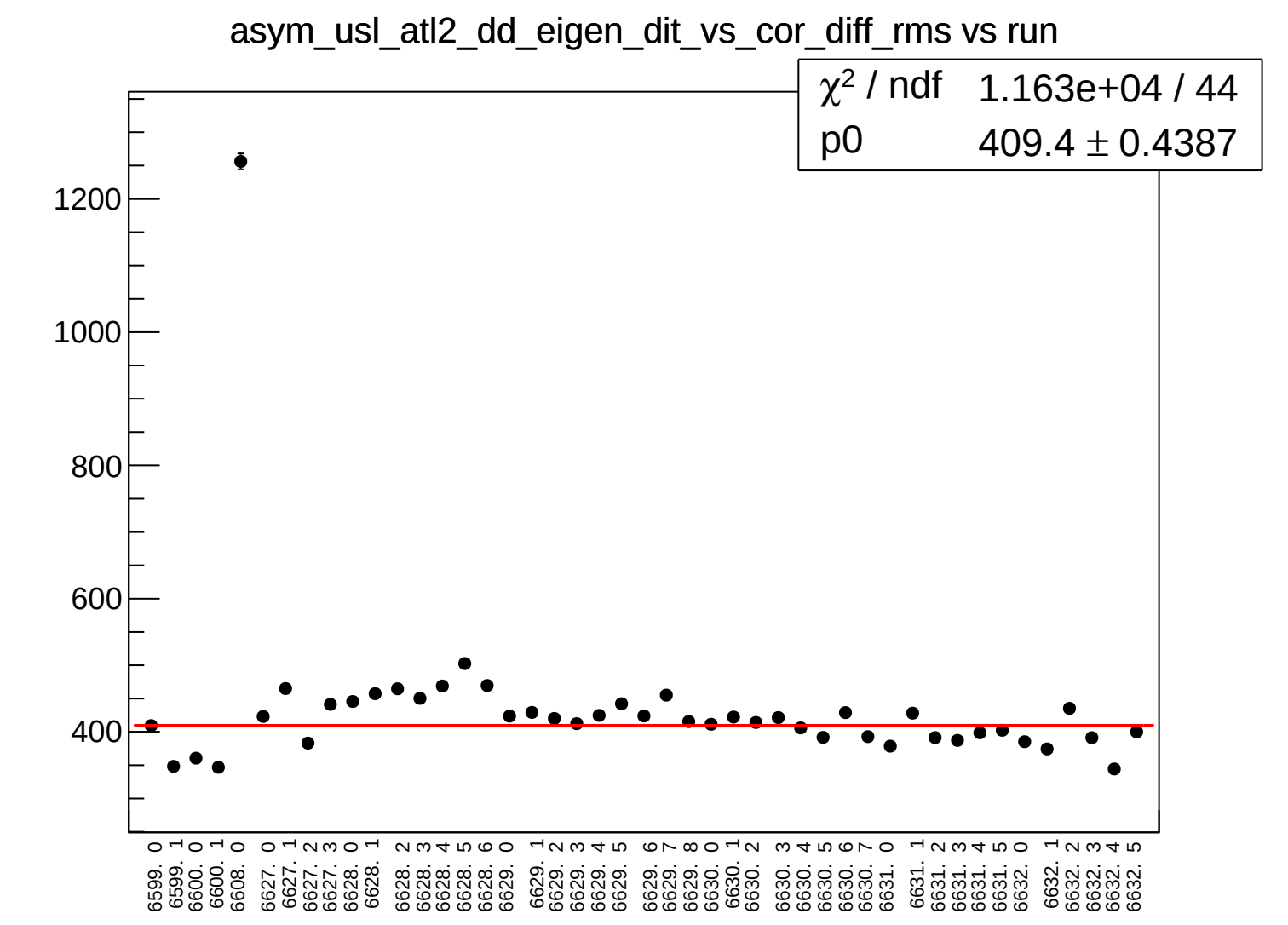

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.163e+04 / 44
p0 409.4 ± 0.4387
1200
1000
800
600
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

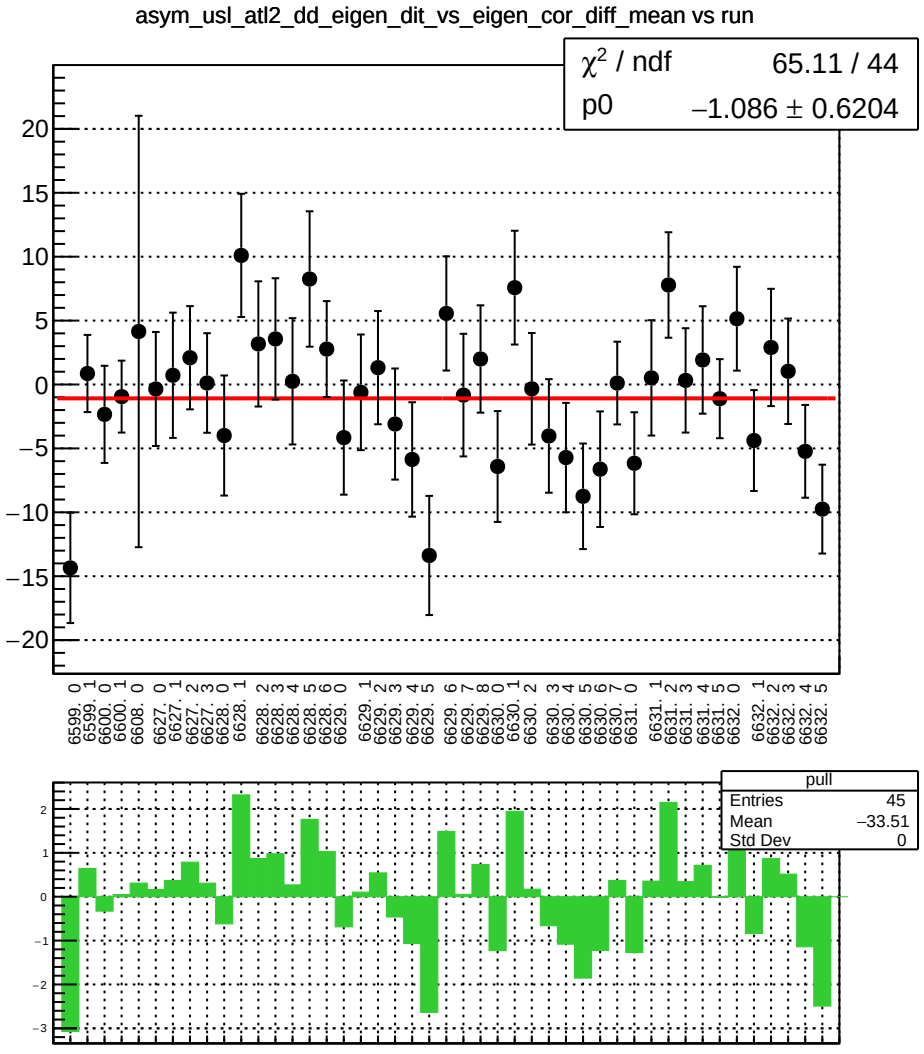

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 41.9 / 43
p0 −7.58e−05 ± 2.927e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 44
Mean 24.67
Std Dev 13.82
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 44
Mean 0.06695
Std Dev 0.9735
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

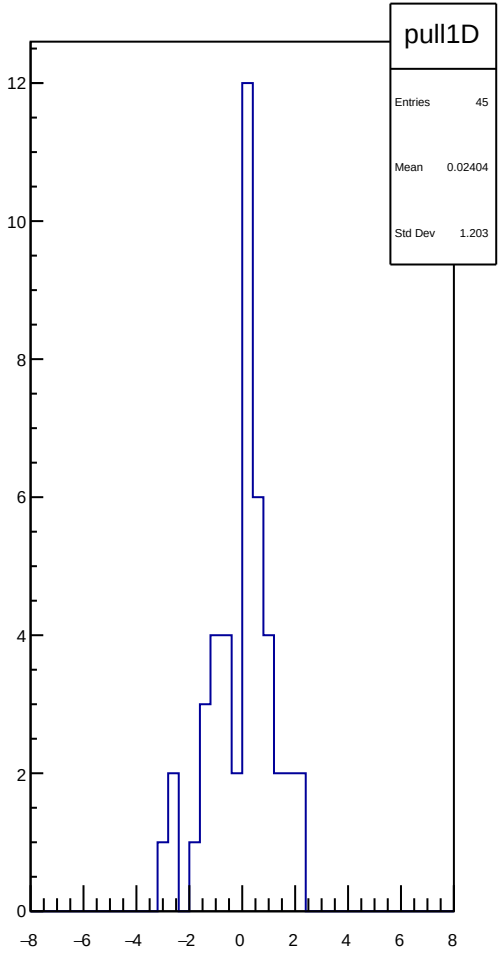

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.1e+05 / 43
p0 0.01806 ± 2.07e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
6599. 0
6599. 1
6600. 0
6600. 1
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

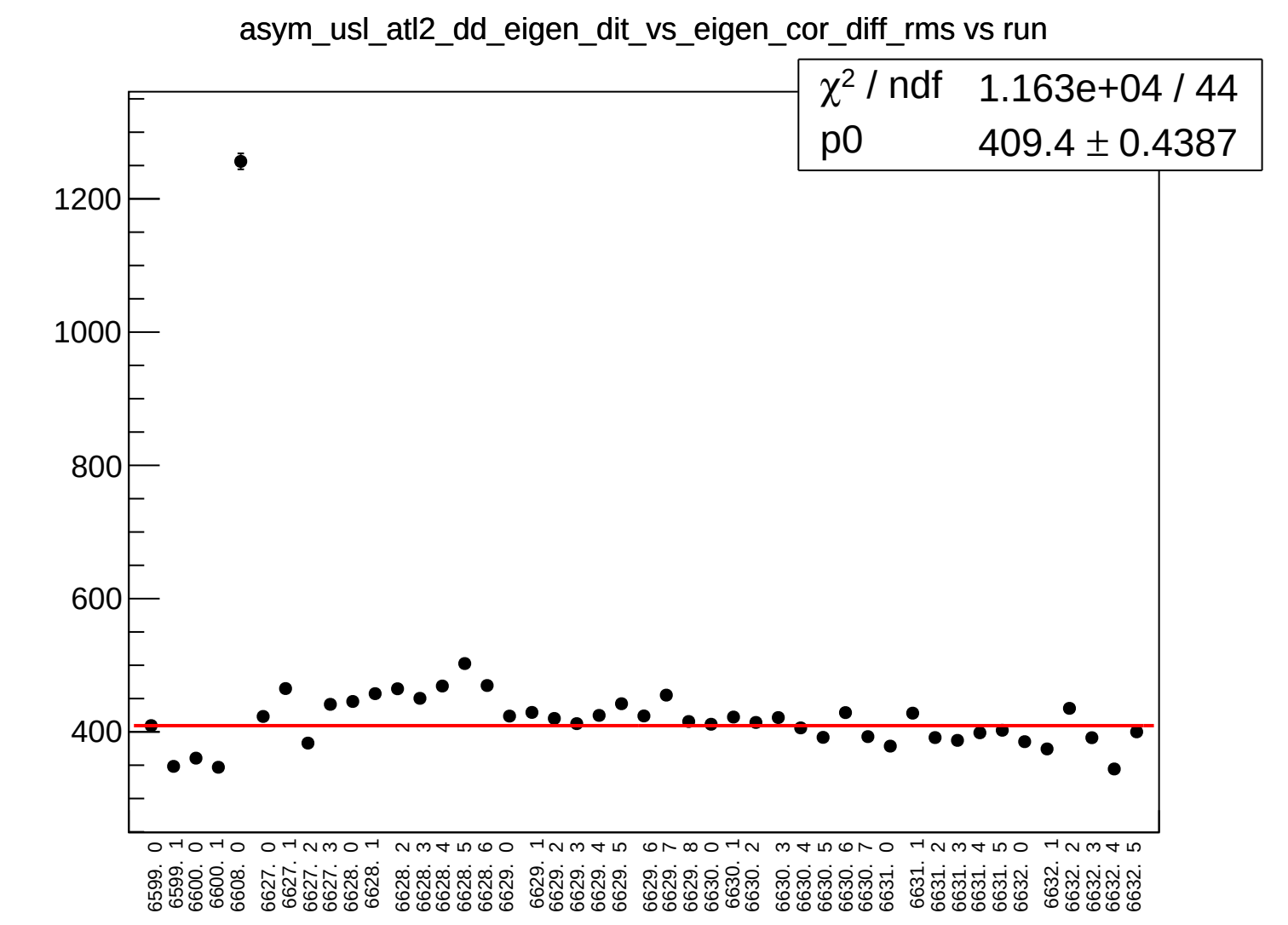

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65.11 / 44
p0 −1.086 ± 0.6204
pull
Entries 45
Mean −33.51
Std Dev 0

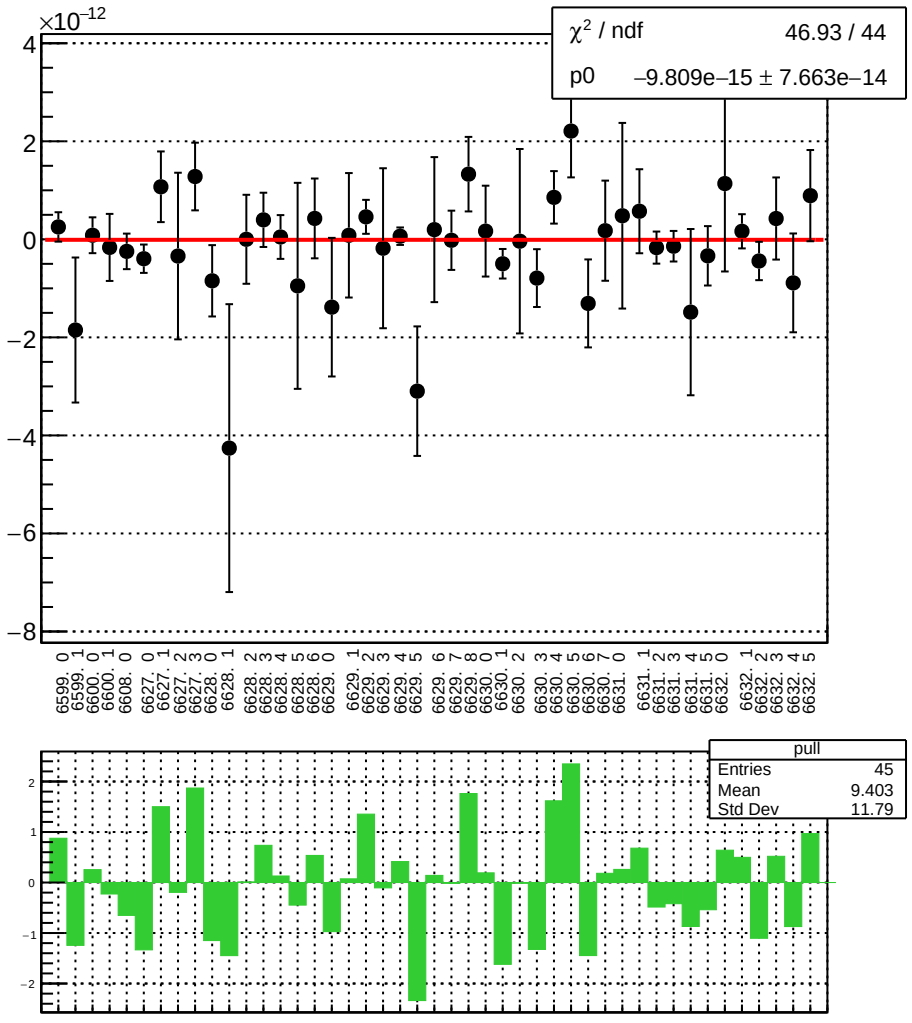

pull1D
Entries 45
Mean 0.02404
Std Dev 1.203

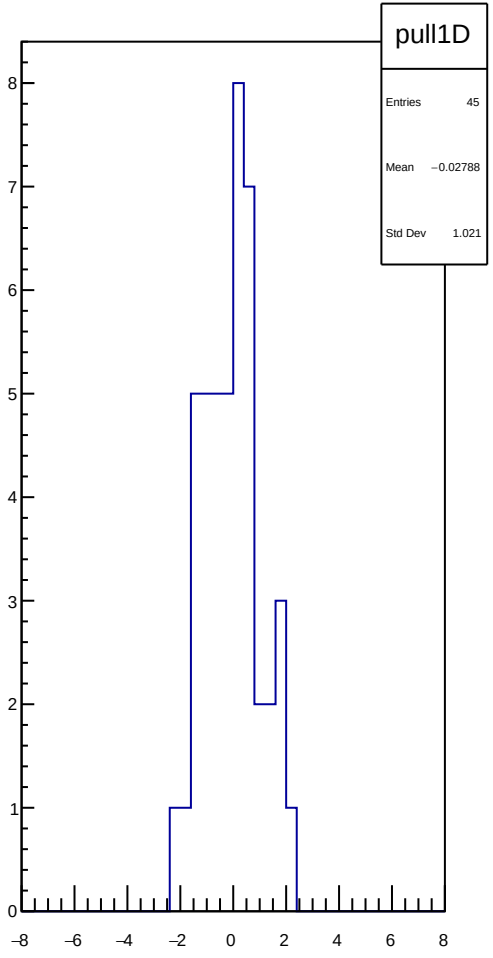

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.163e+04 / 44
p0 409.4 ± 0.4387
1200
1000
800
600
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

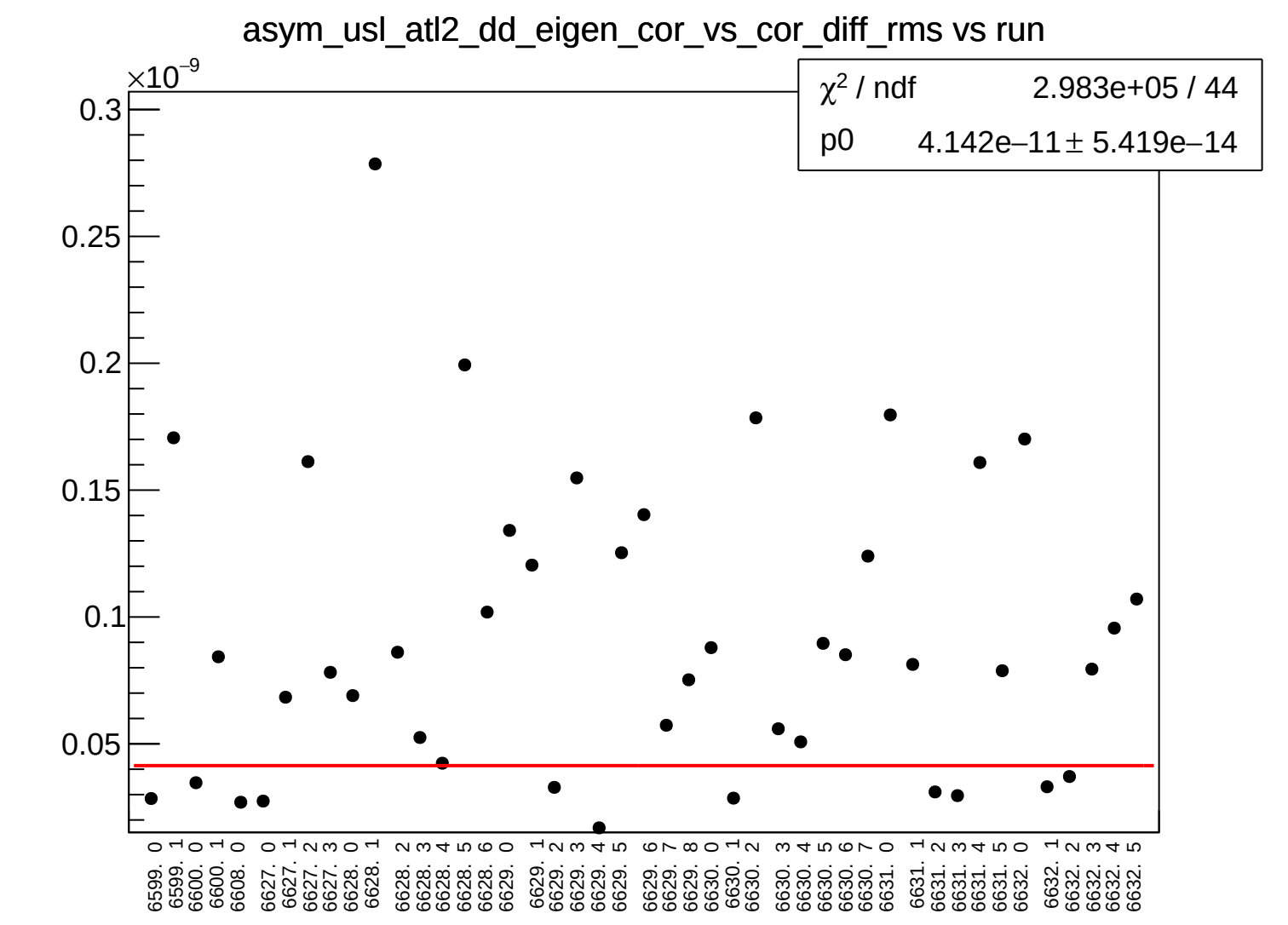

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.11 / 44
p0 −1.086 ± 0.6204
pull
Entries 45
Mean −33.51
Std Dev 0

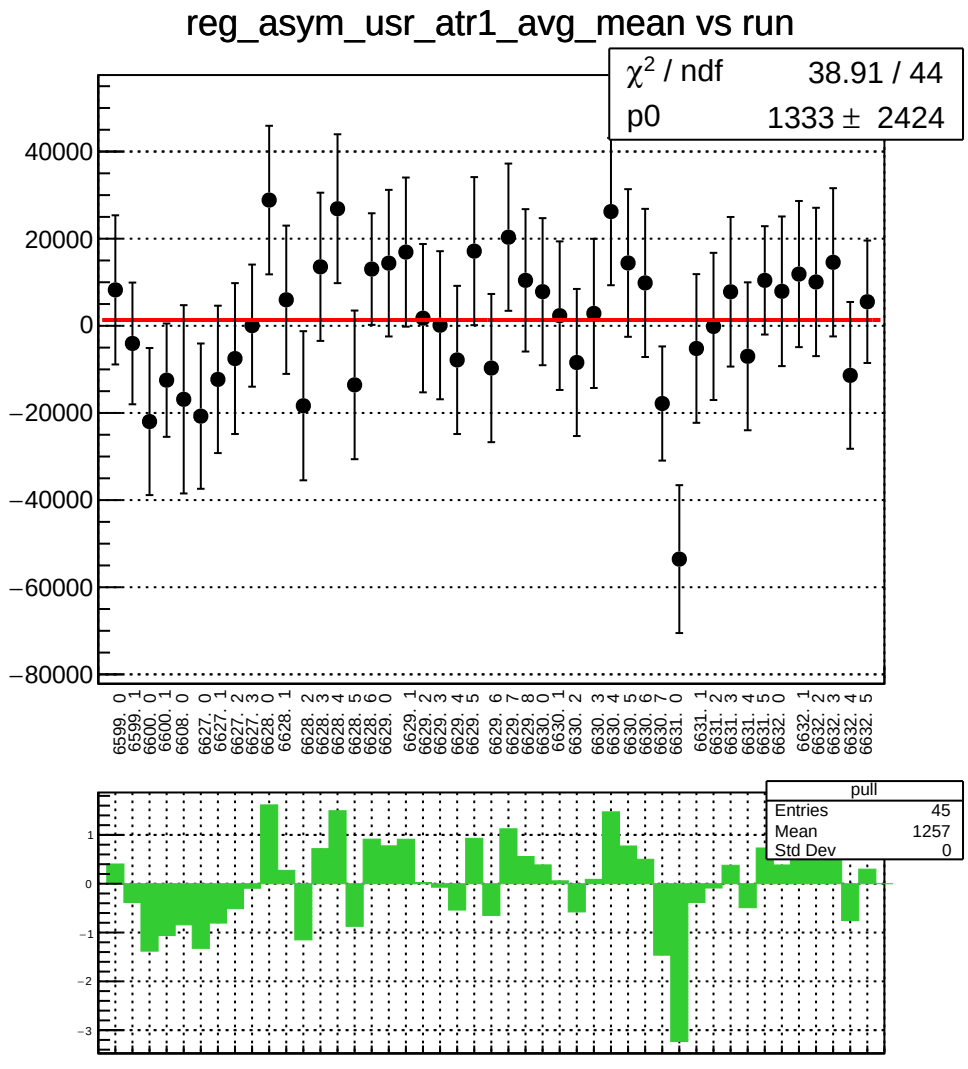

pull1D
Entries 45
Mean 0.02404
Std Dev 1.203

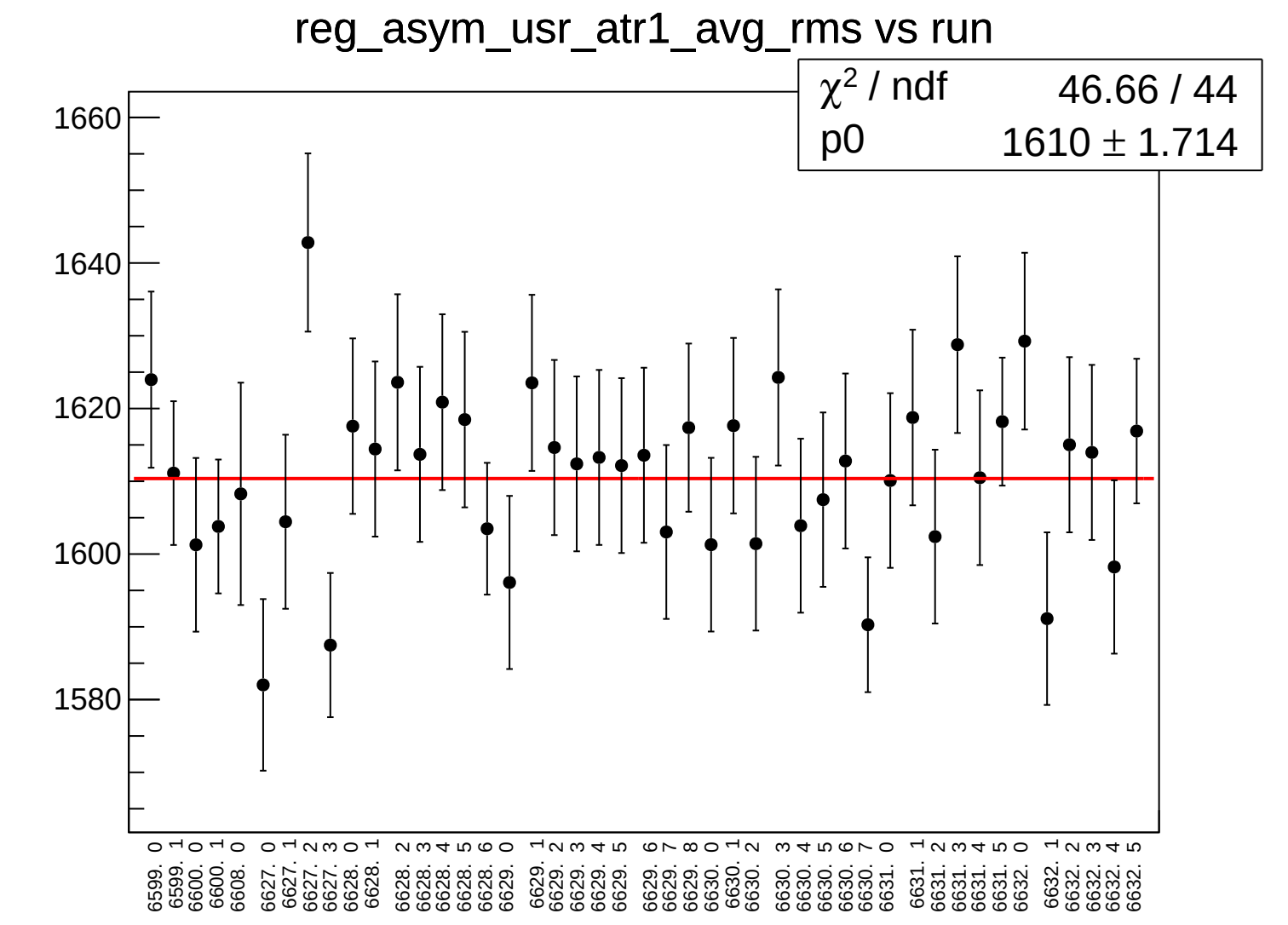

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.163e+04 / 44
p0 409.4 ± 0.4387
1200
1000
800
600
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

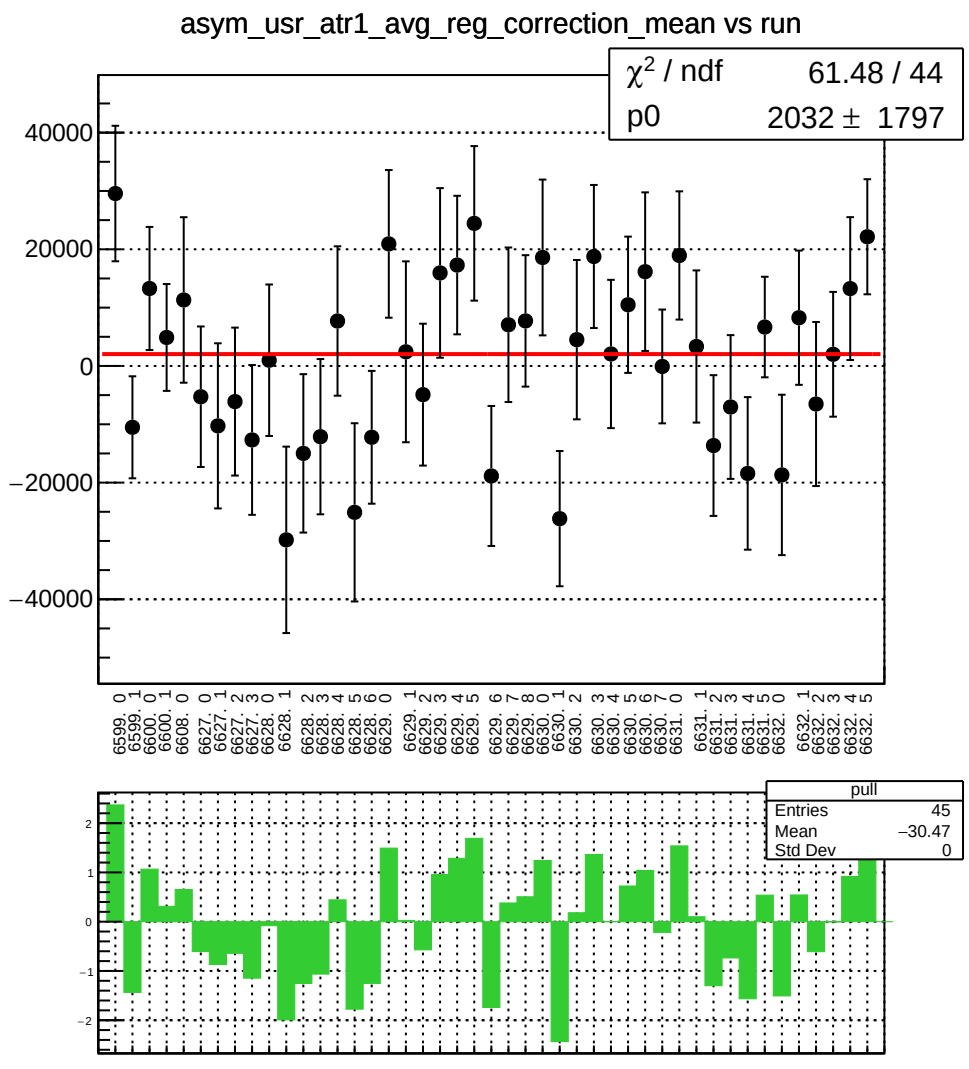

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 46.93 / 44
p0 −9.809e−15 ± 7.663e−14
pull
Entries 45
Mean 9.403
Std Dev 11.79

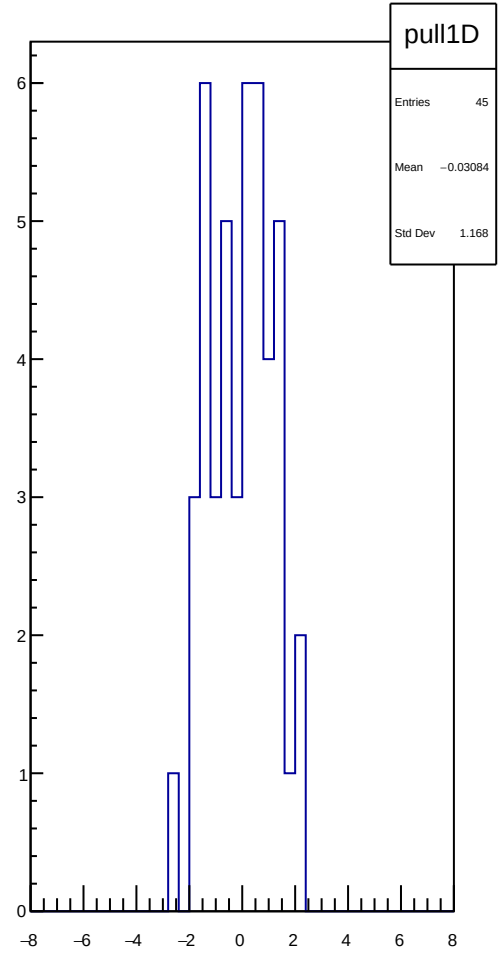

pull1D
Entries 45
Mean −0.02788
Std Dev 1.021

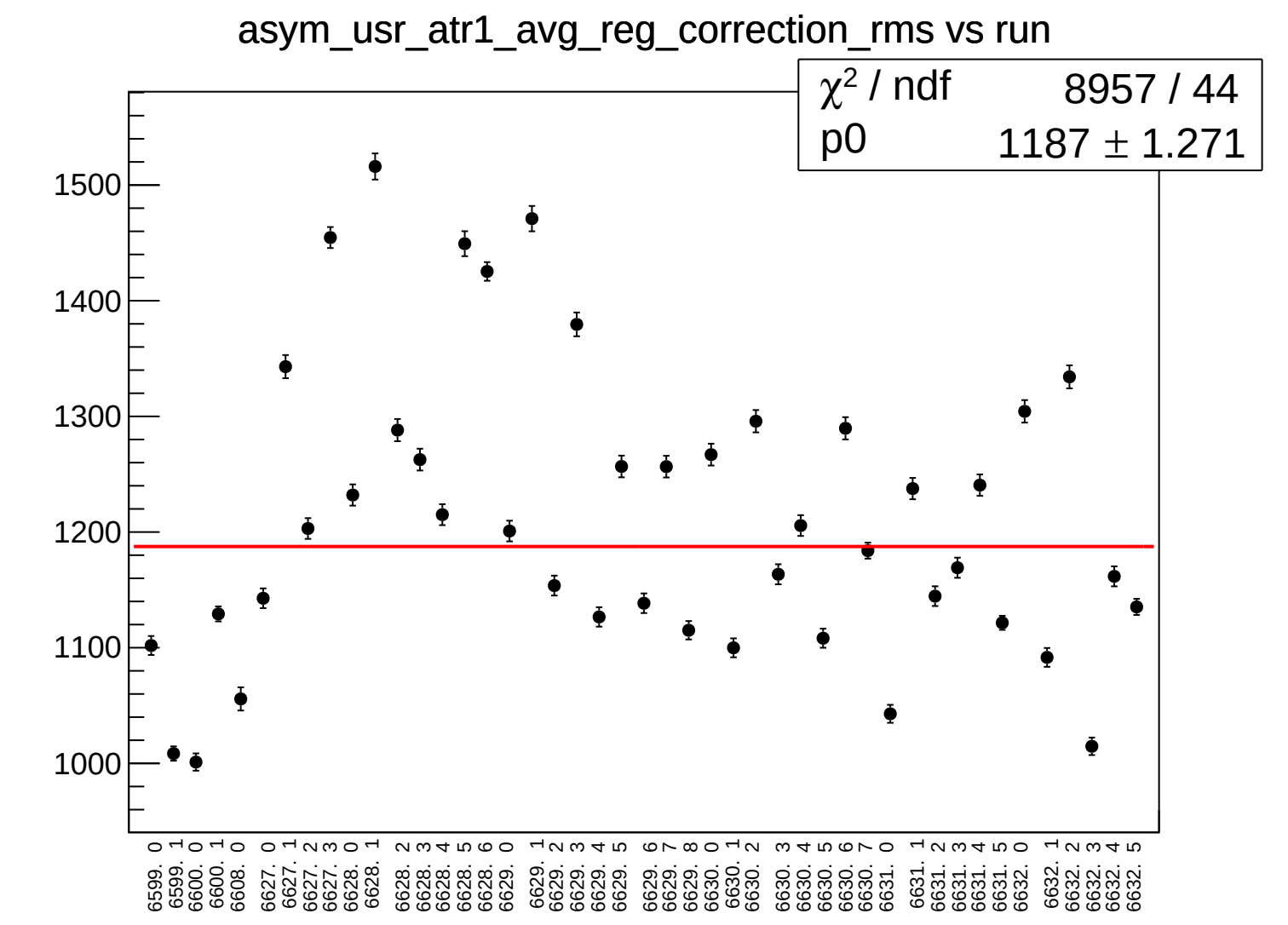

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.983e+05 / 44
p0 4.142e−11 ± 5.419e−14
0.3
0.25
0.2
0.15
0.1
0.05
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

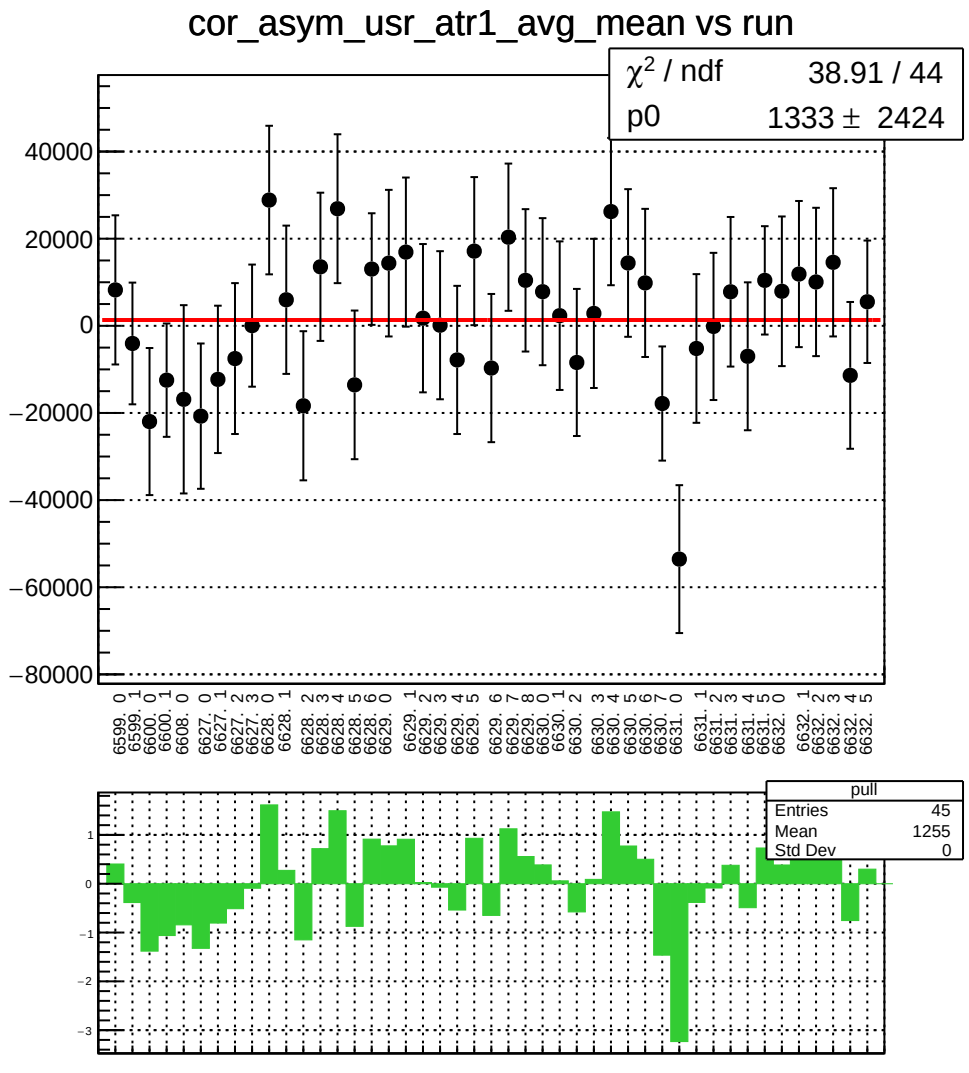

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 38.91 / 44
p0 1333 ± 2424
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 1257
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.001363
Std Dev 0.9299
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

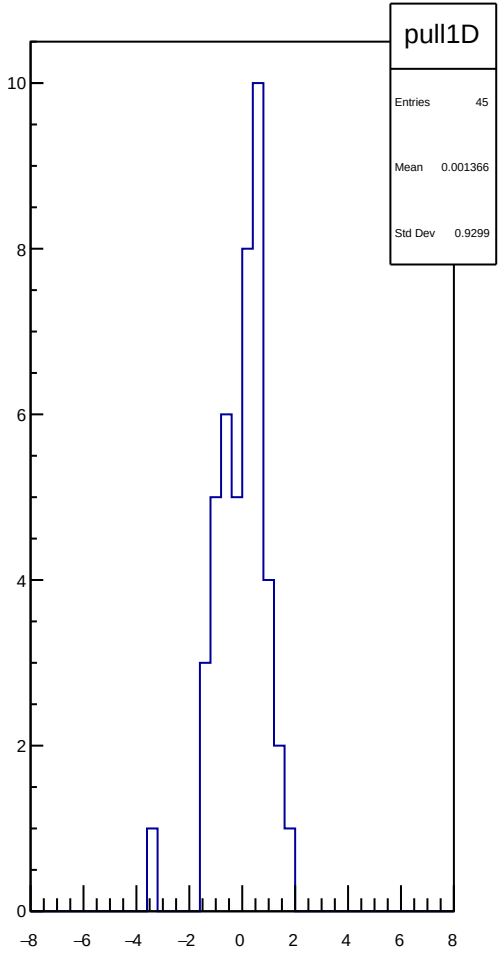

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 46.66 / 44
p0 1610 ± 1.714
1660
1640
1620
1600
1580
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

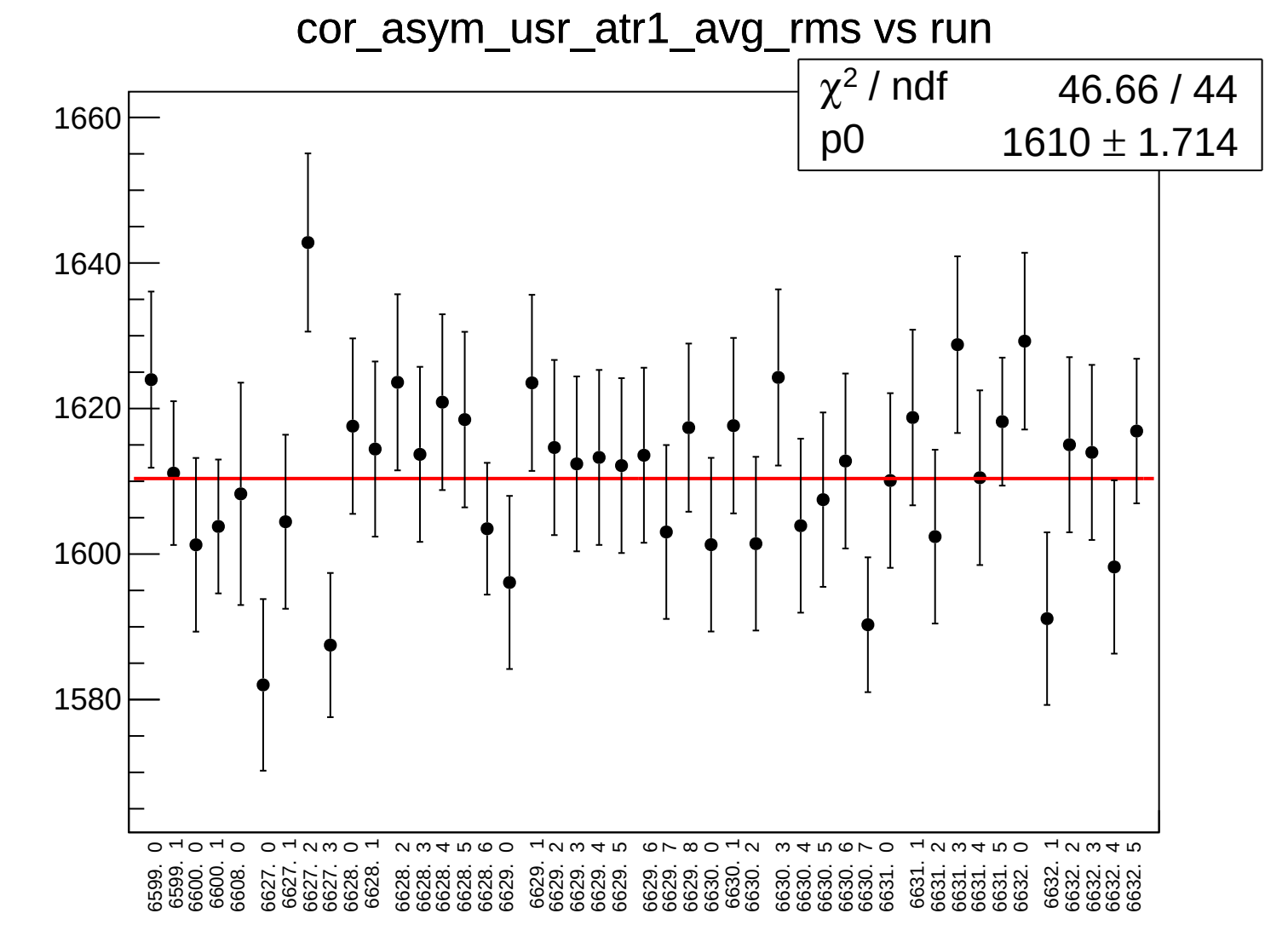

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 61.48 / 44
p0 2032 ± 1797
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −30.47
Std Dev 0
2
1
0
−1
−2

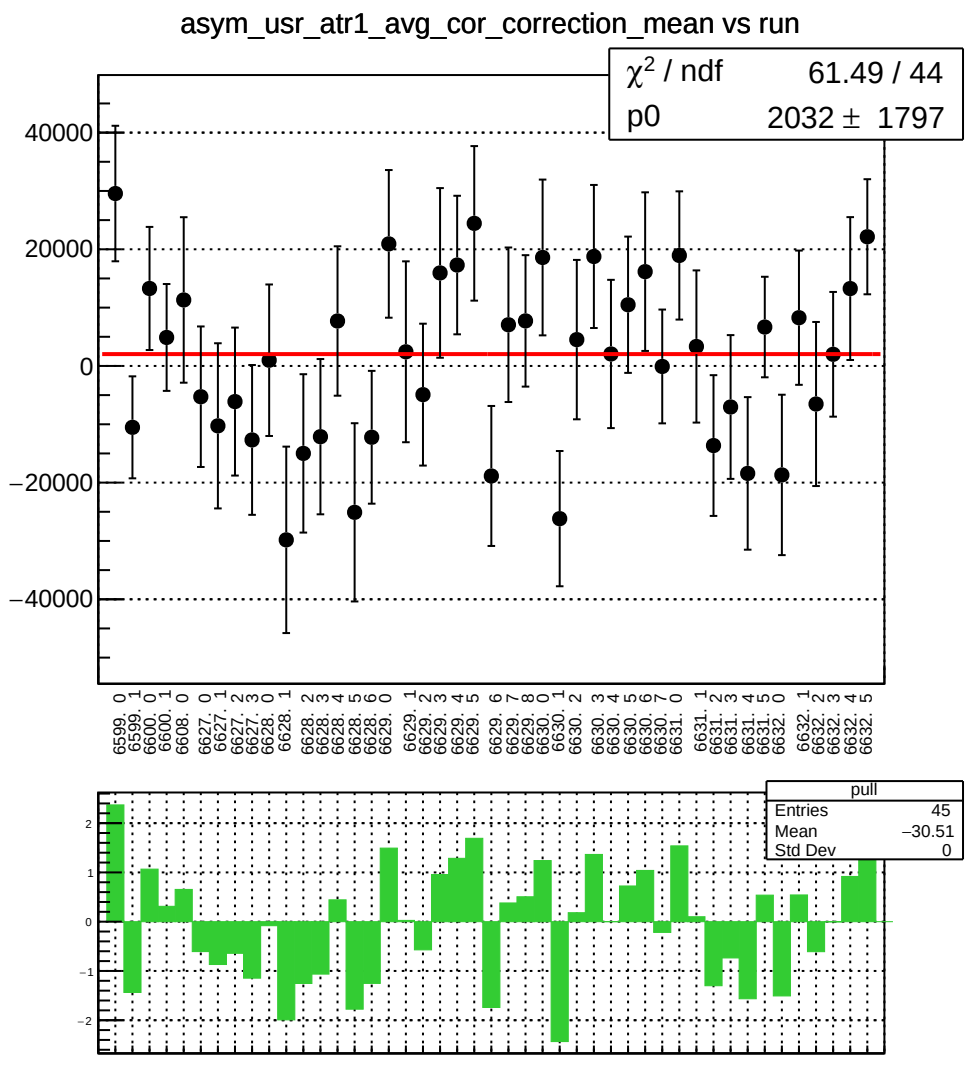

pull1D
Entries 45
Mean −0.03084
Std Dev 1.168
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

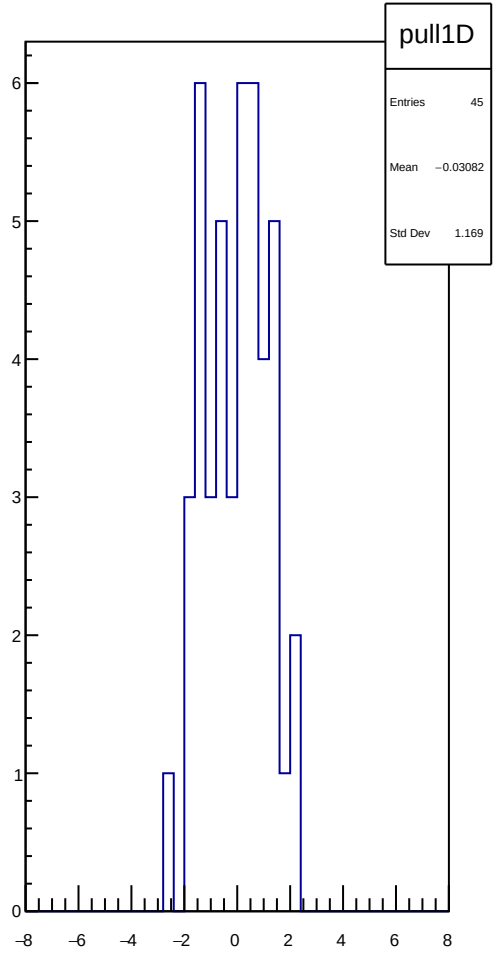

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 8957 / 44
p0 1187 ± 1.271
1500
1400
1300
1200
1100
1000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

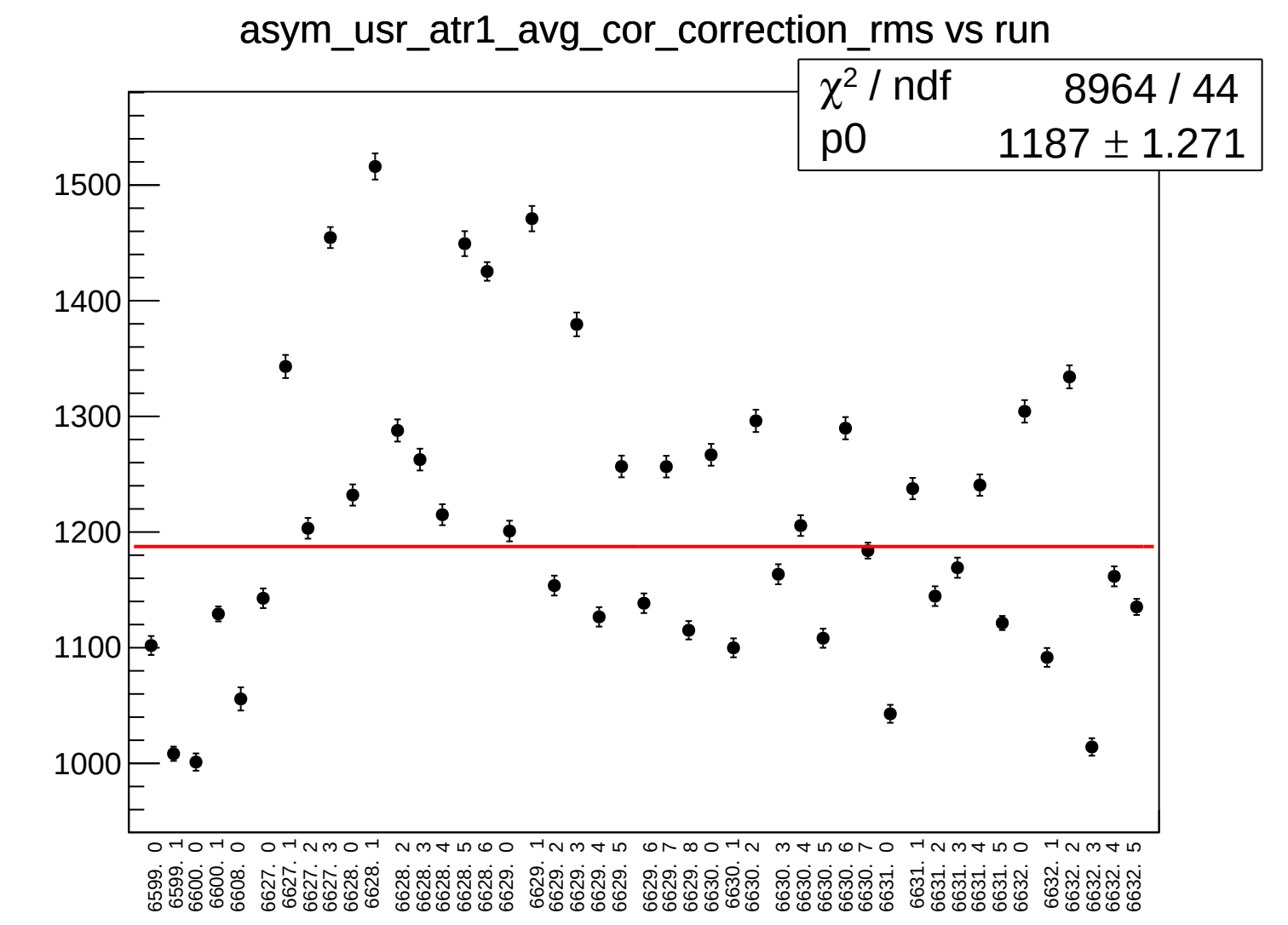

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 38.91 / 44
p0 1333 ± 2424
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 1255
Std Dev 0
1
0
−1
−2
−3

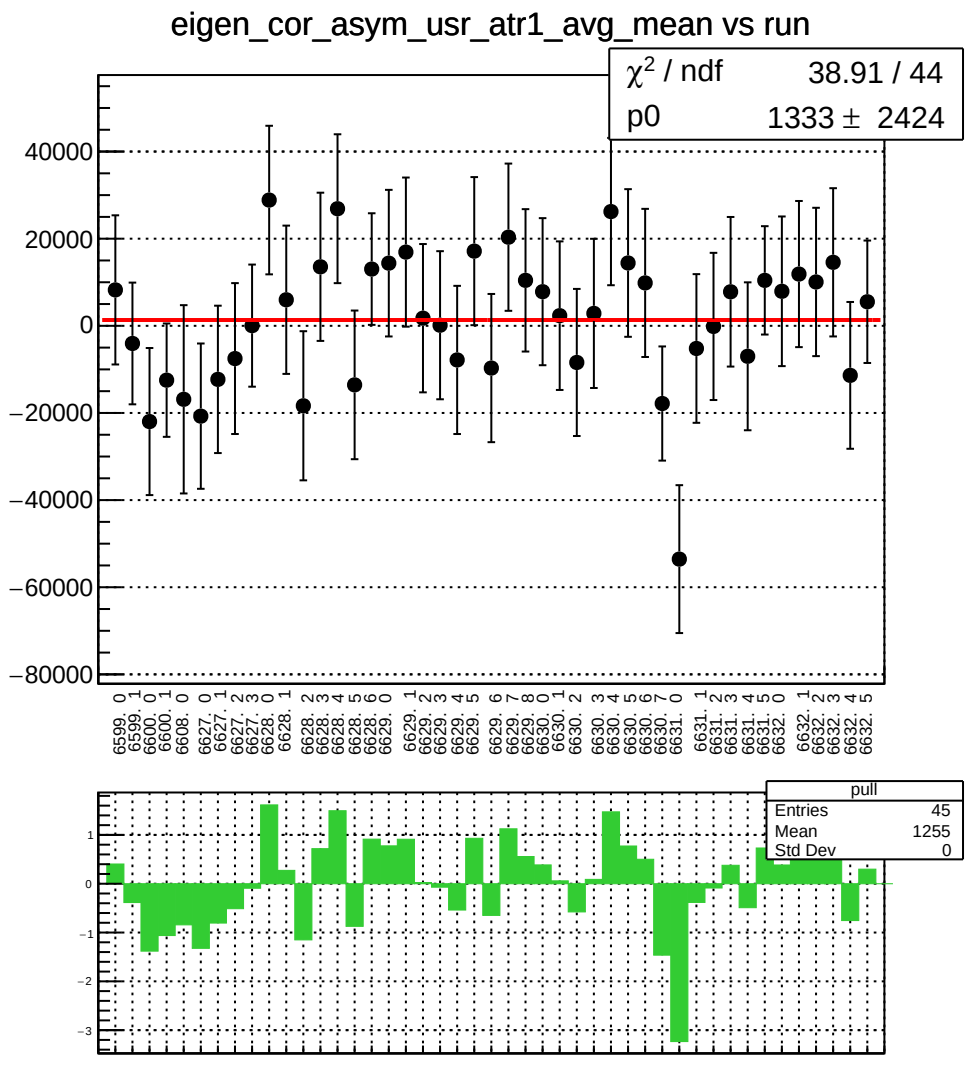

pull1D
Entries 45
Mean 0.001366
Std Dev 0.9299
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 46.66 / 44
p0 1610 ± 1.714
1660
1640
1620
1600
1580
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 61.49 / 44
p0 2032 ± 1797
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −30.51
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.03082
Std Dev 1.169
6
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 8964 / 44
p0 1187 ± 1.271
1500
1400
1300
1200
1100
1000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 38.91 / 44
p0 1333 ± 2424
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
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6629. 5
6629. 6
6629. 7
6629. 8
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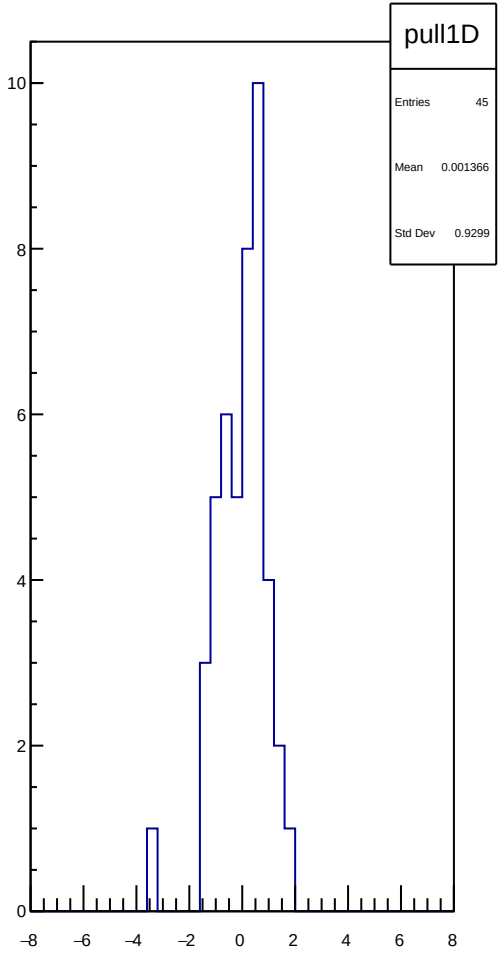
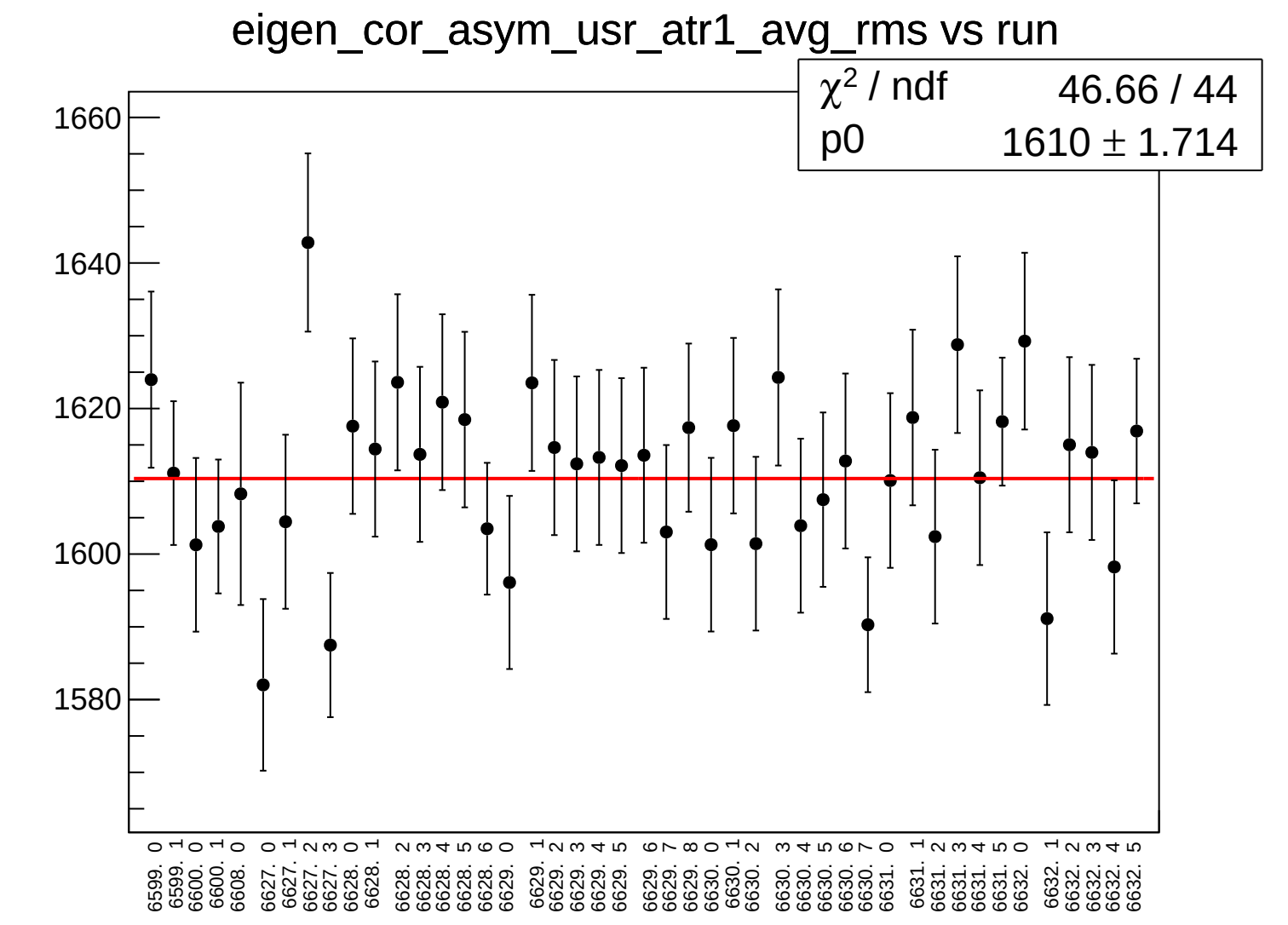
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 1255
Std Dev 0
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.001366
Std Dev 0.9299
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 46.66 / 44
p0 1610 ± 1.714
1660
1640
1620
1600
1580
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 5
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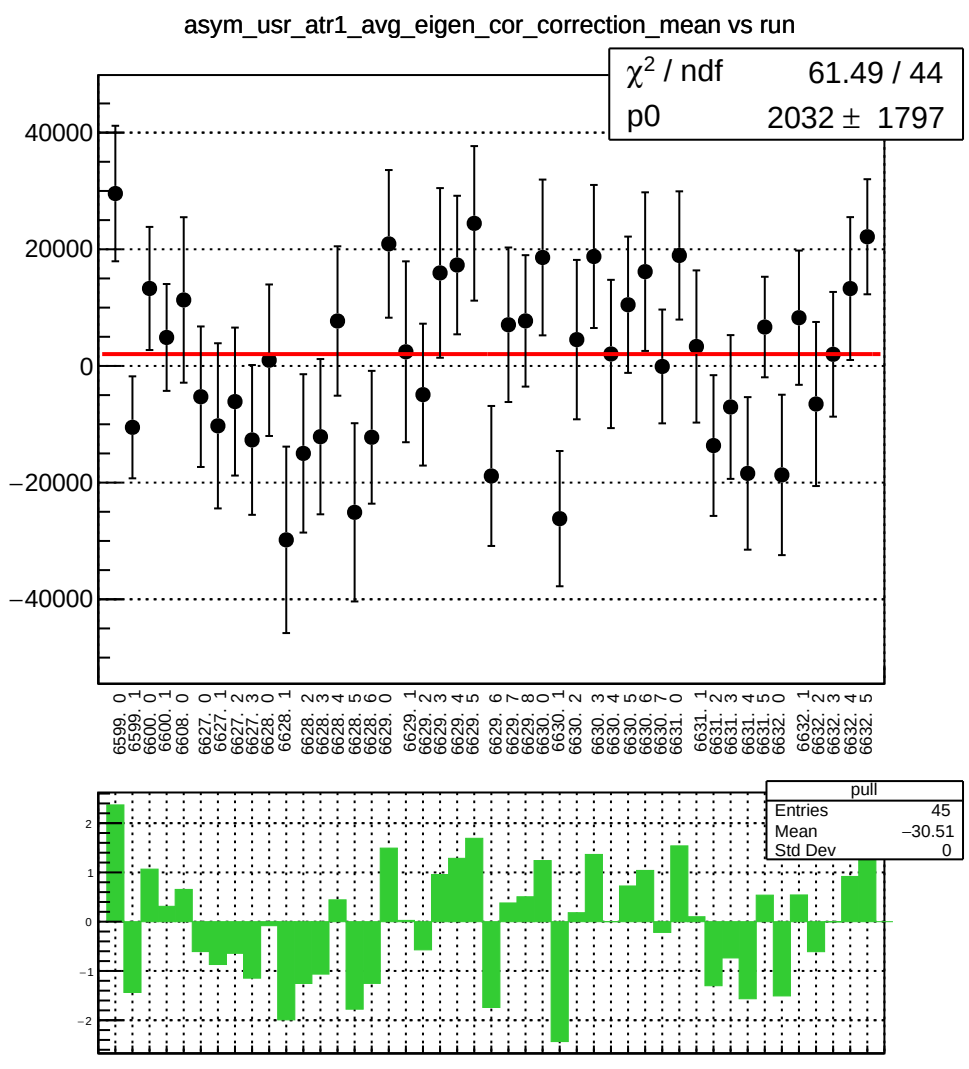
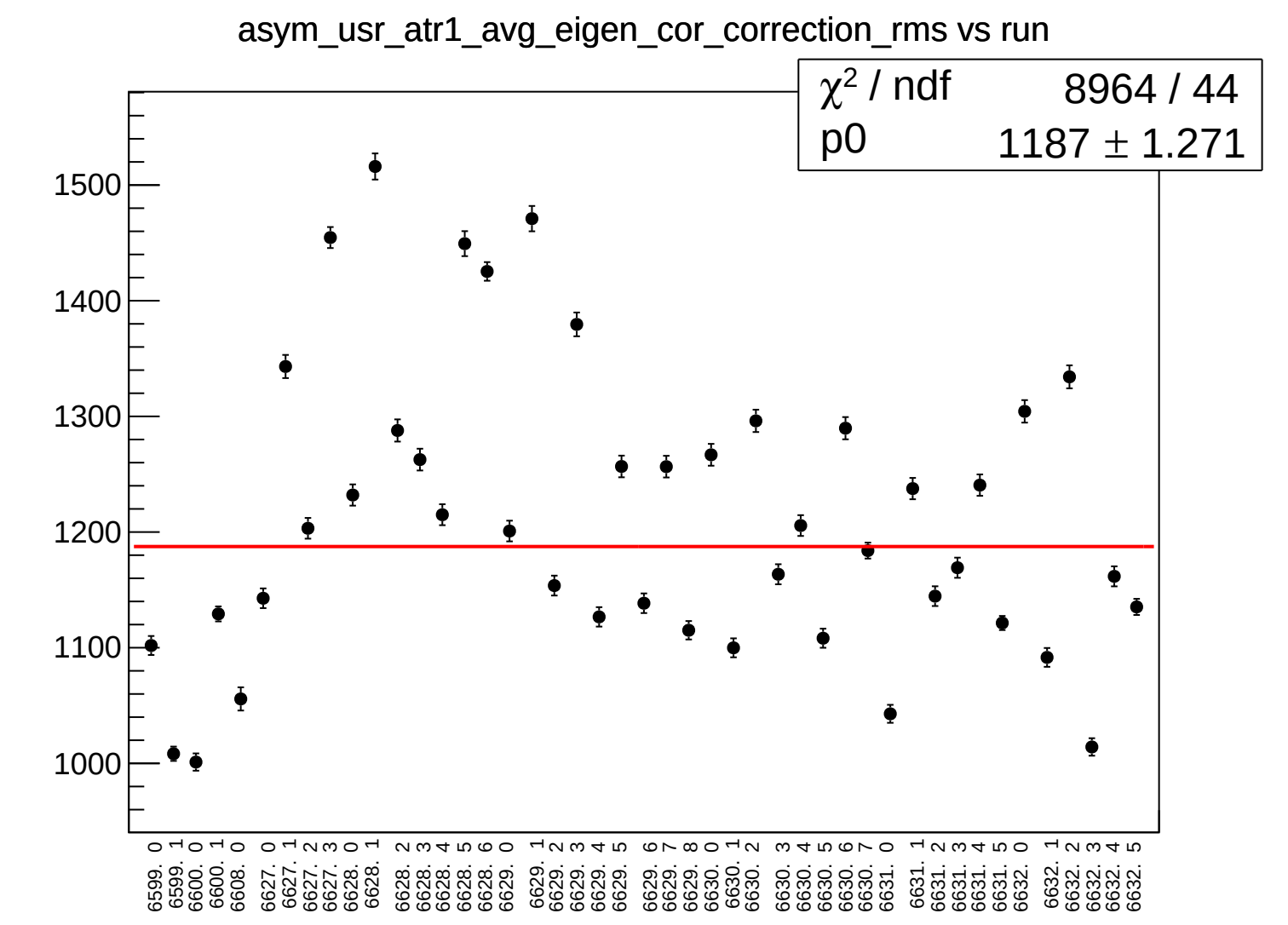
6632. 4
6632. 5


asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 61.49 / 44
p0 2032 ± 1797
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −30.51
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.03082
Std Dev 1.169
6
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 8964 / 44
p0 1187 ± 1.271
1500
1400
1300
1200
1100
1000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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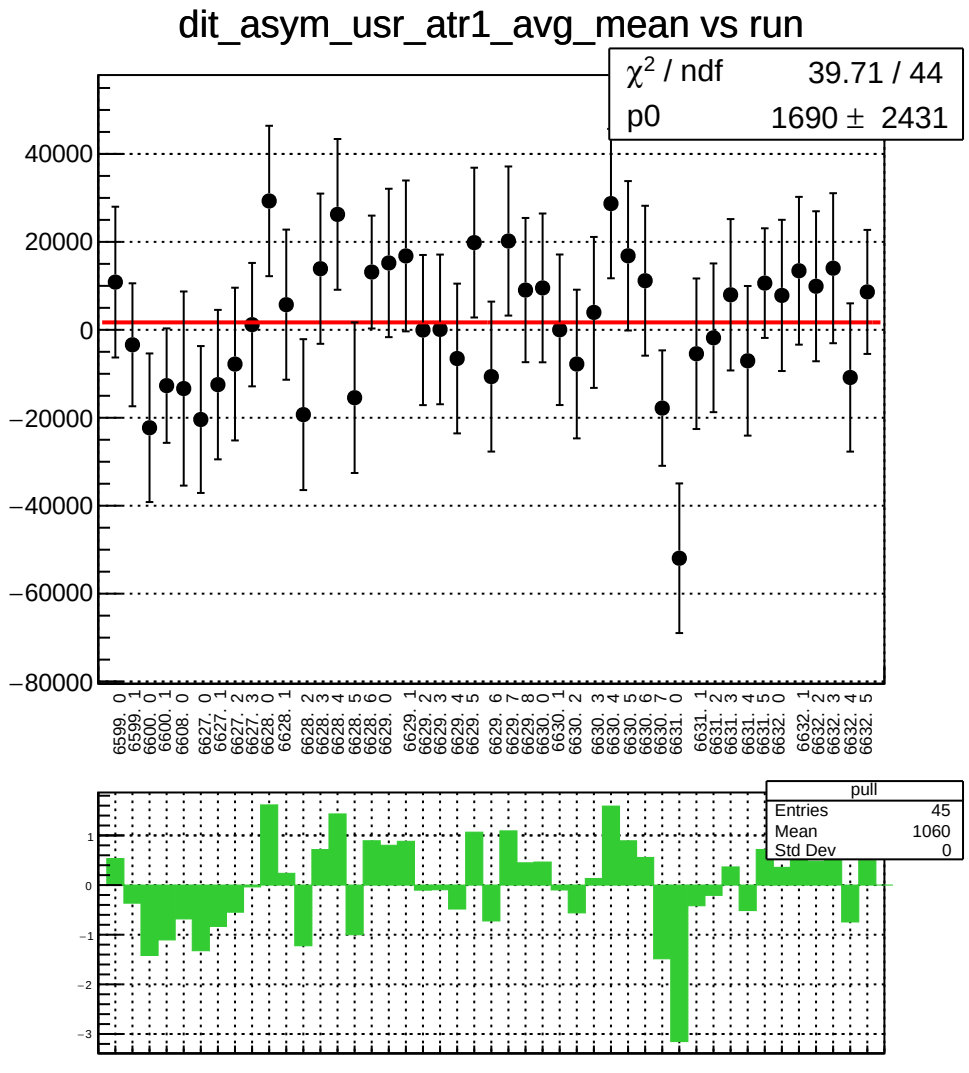
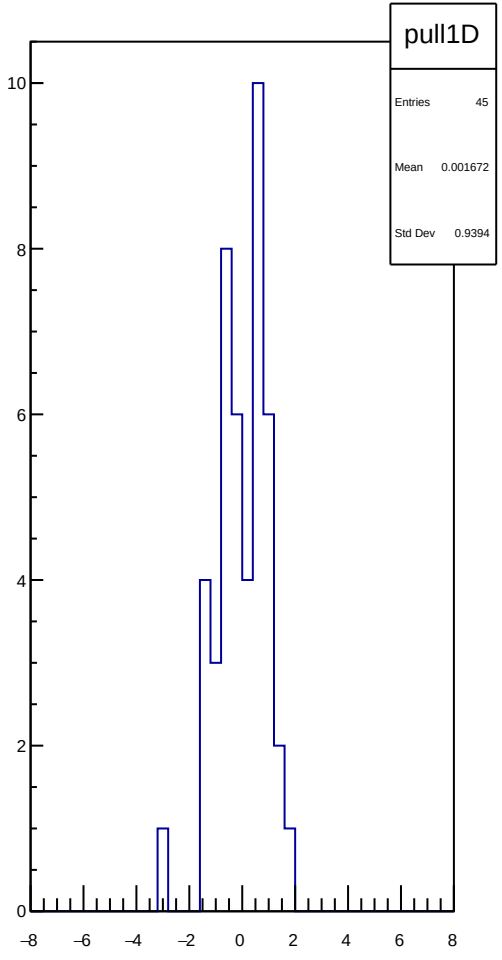
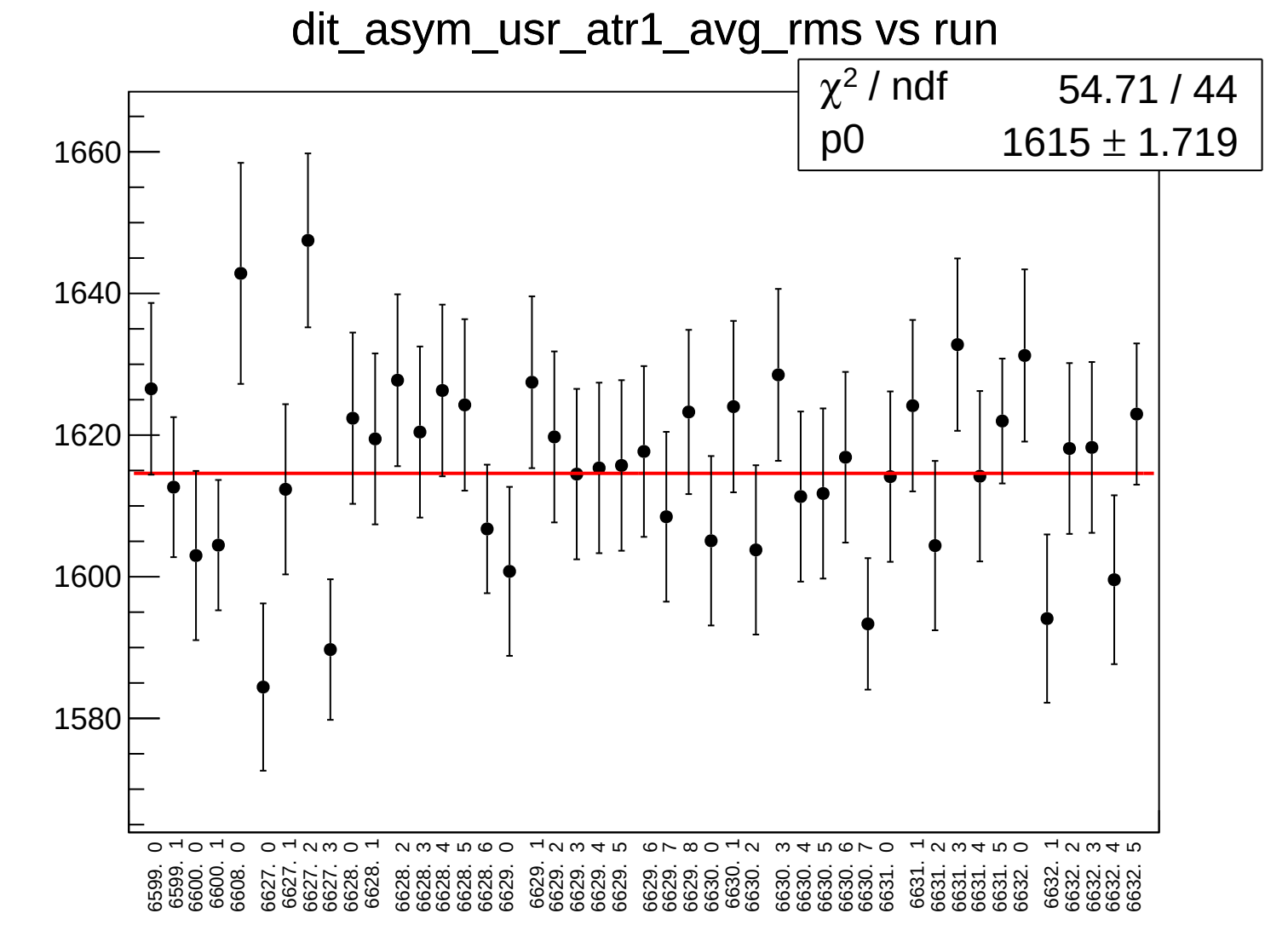
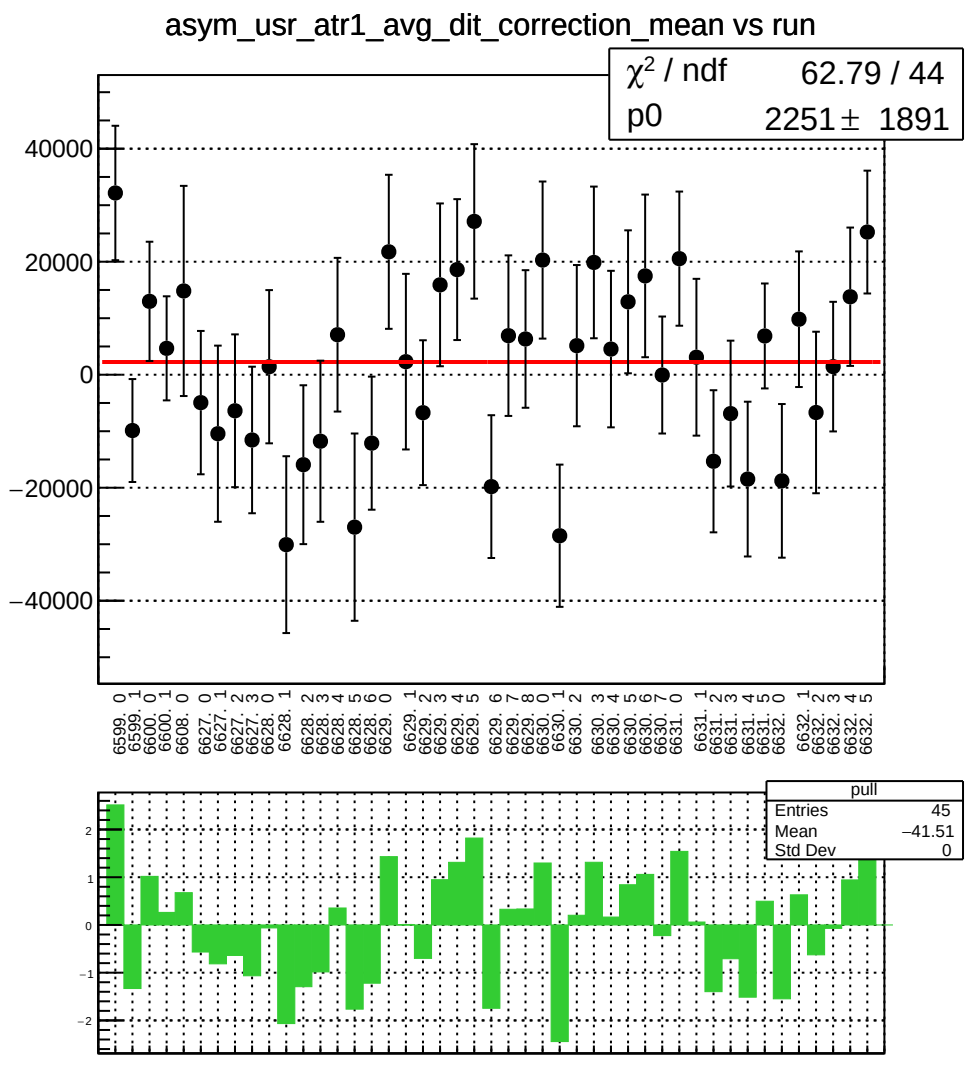
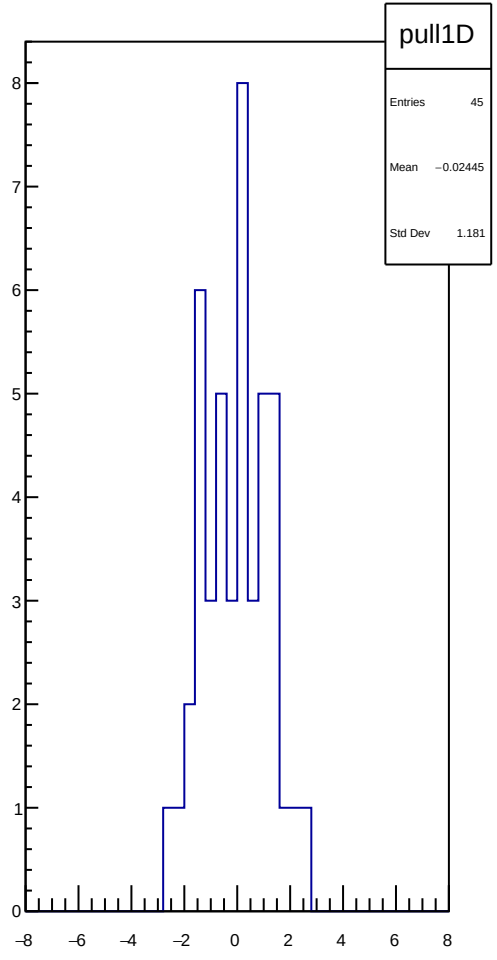
6632. 2
6632. 3
6632. 4
6632. 5

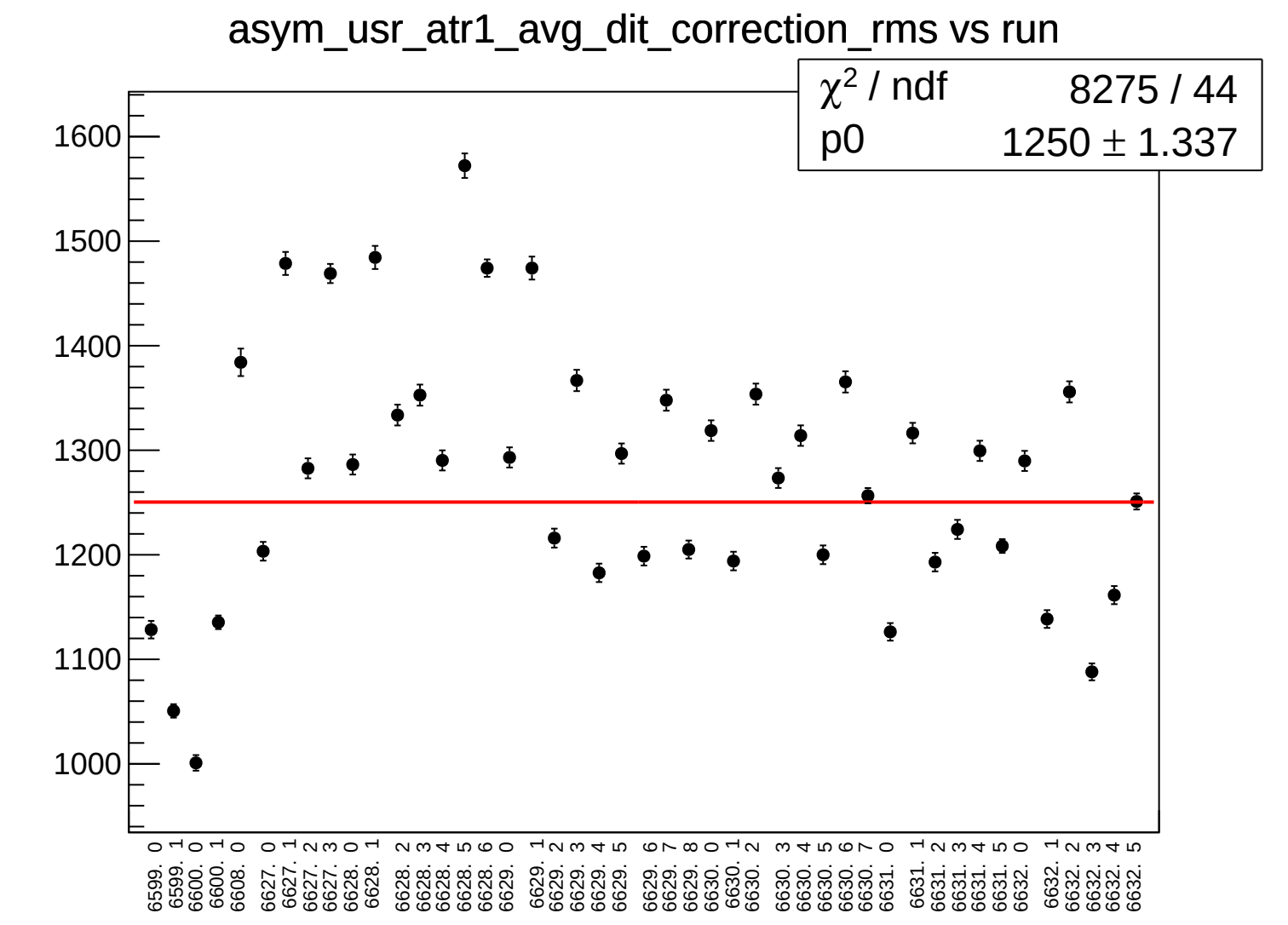

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 39.71 / 44
p0 1690 ± 2431
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 1060
Std Dev 0
1
0
−1
−2
−3

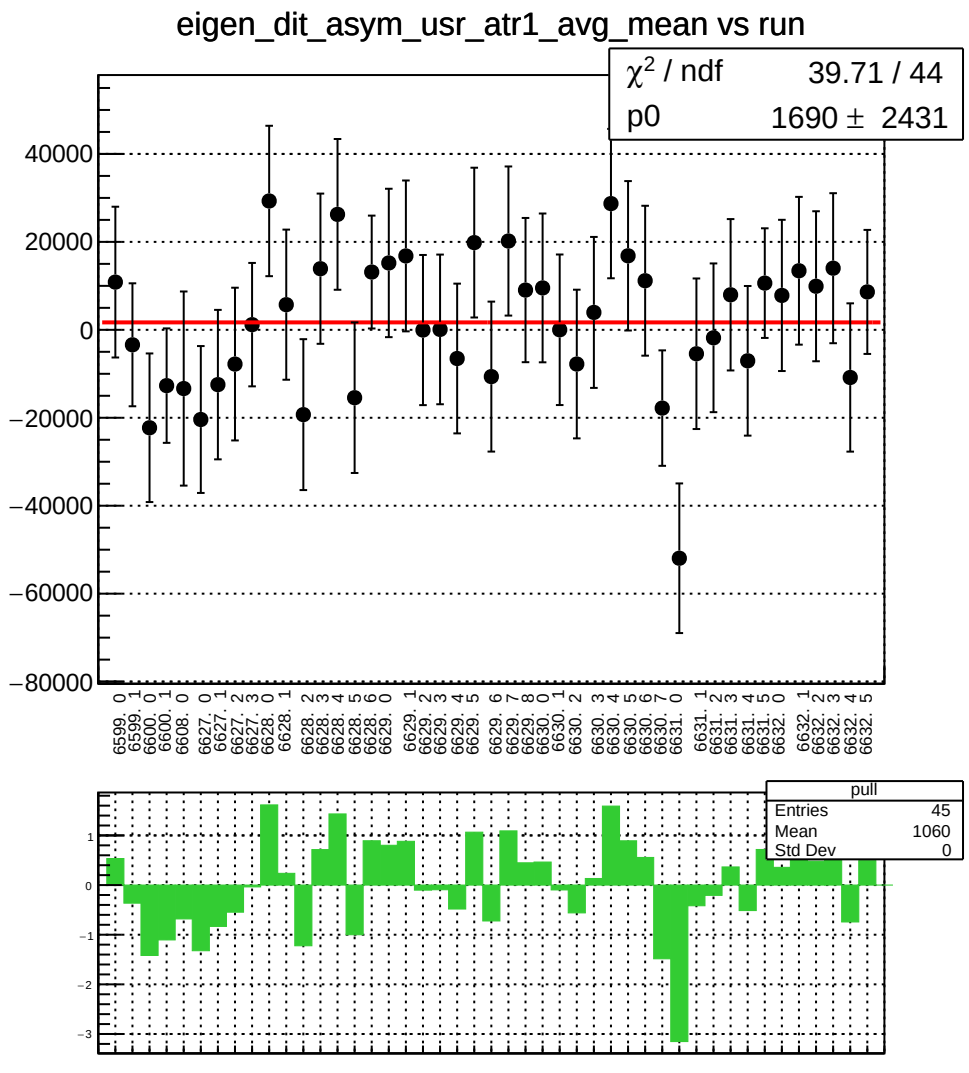

pull1D
Entries 45
Mean 0.001672
Std Dev 0.9394
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

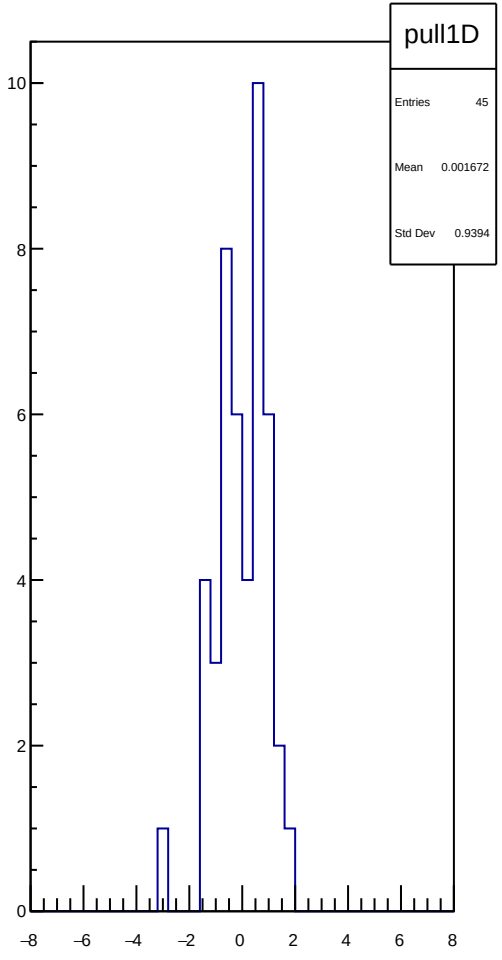

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 54.71 / 44
p0 1615 ± 1.719
1660
1640
1620
1600
1580
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

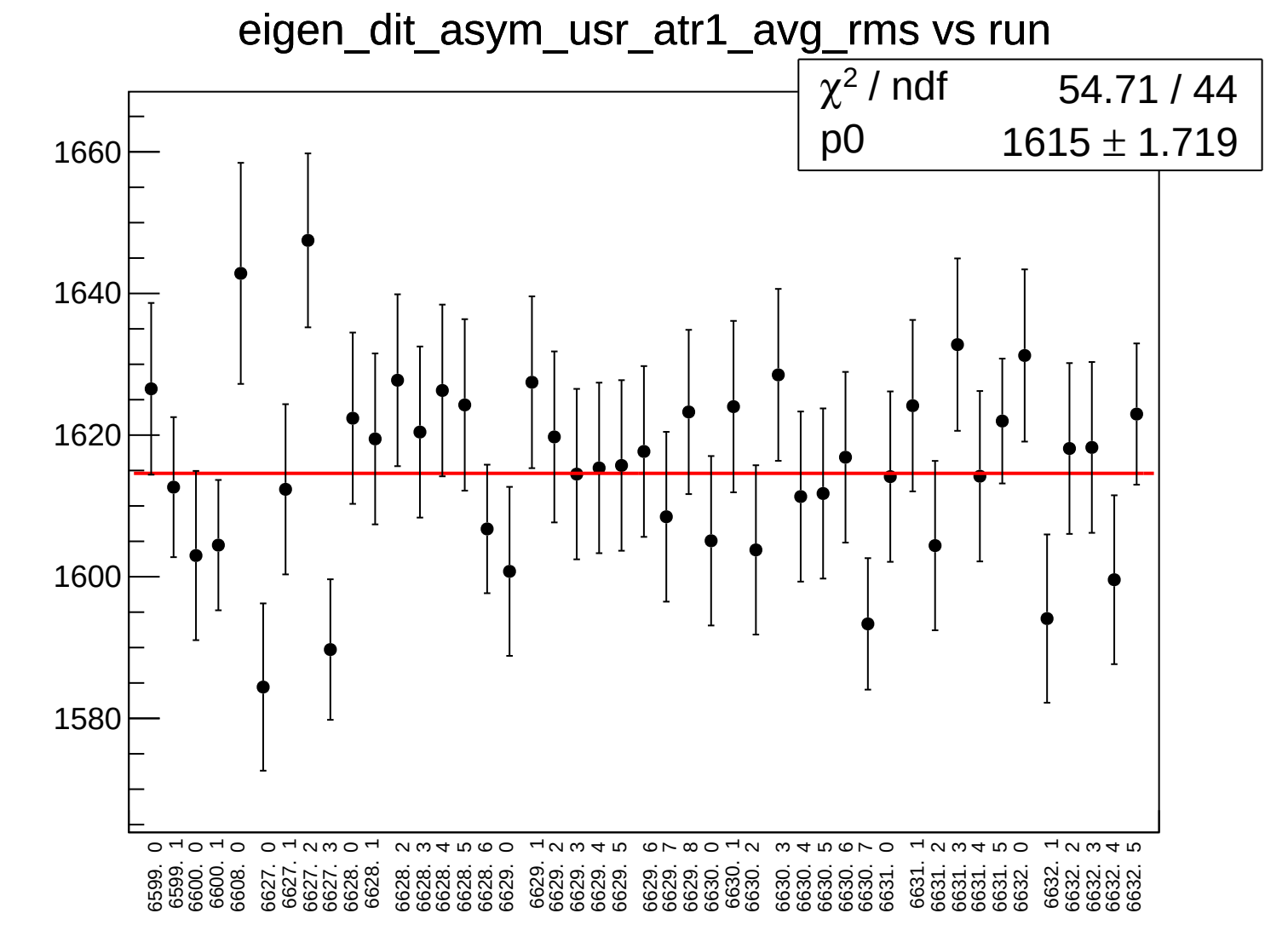

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 62.79 / 44
p0 2251 ± 1891
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −41.51
Std Dev 0
2
1
0
−1
−2

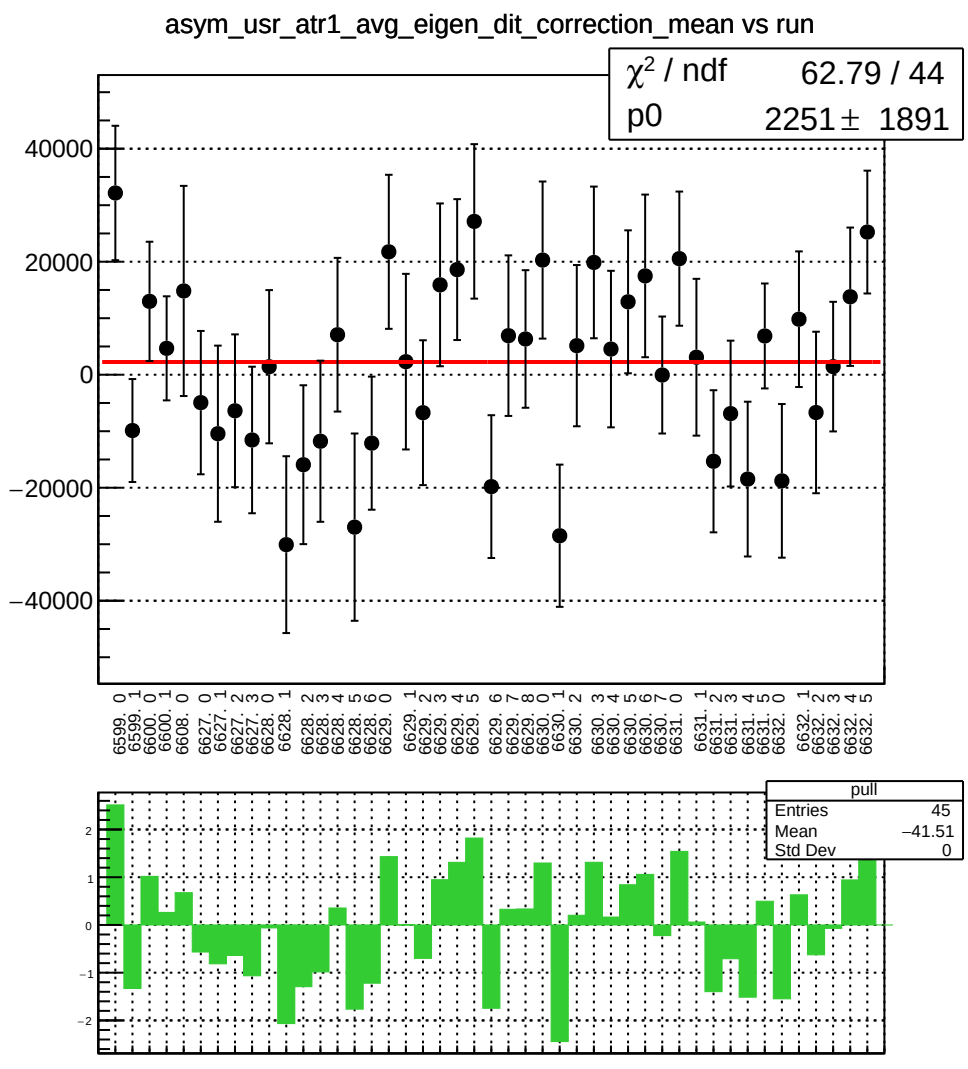

pull1D
Entries 45
Mean −0.02445
Std Dev 1.181
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

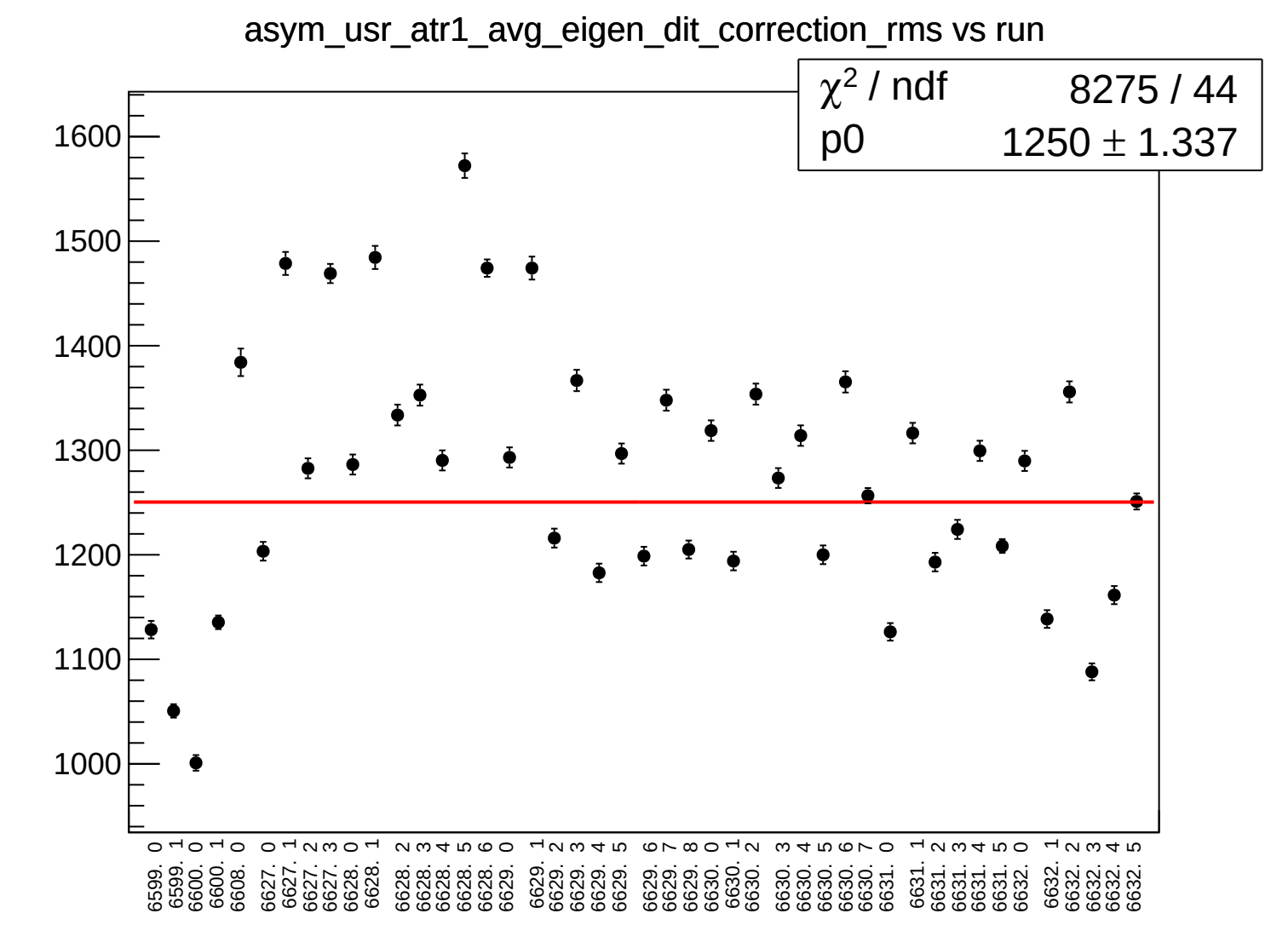

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 8275 / 44
p0 1250 ± 1.337
1600
1500
1400
1300
1200
1100
1000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

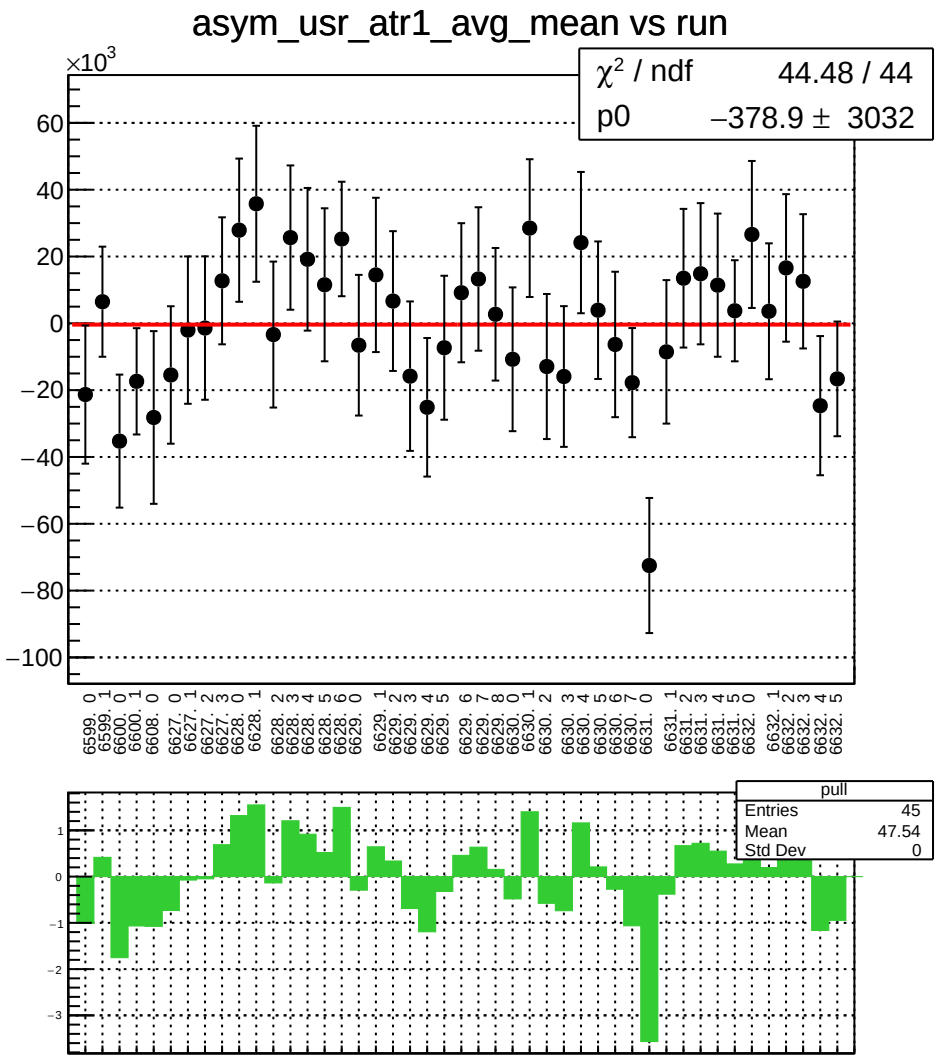

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 39.71 / 44
p0 1690 ± 2431
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 1060
Std Dev 0
1
0
−1
−2
−3

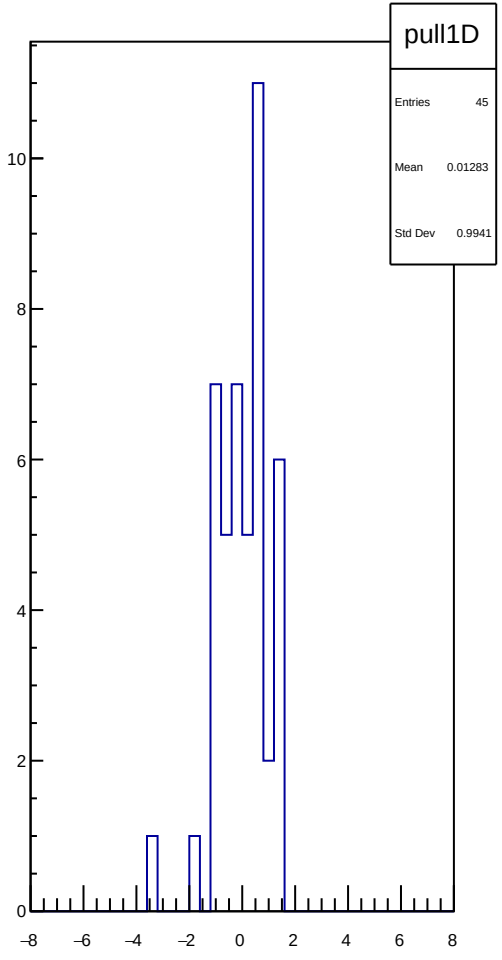

pull1D
Entries 45
Mean 0.001672
Std Dev 0.9394
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

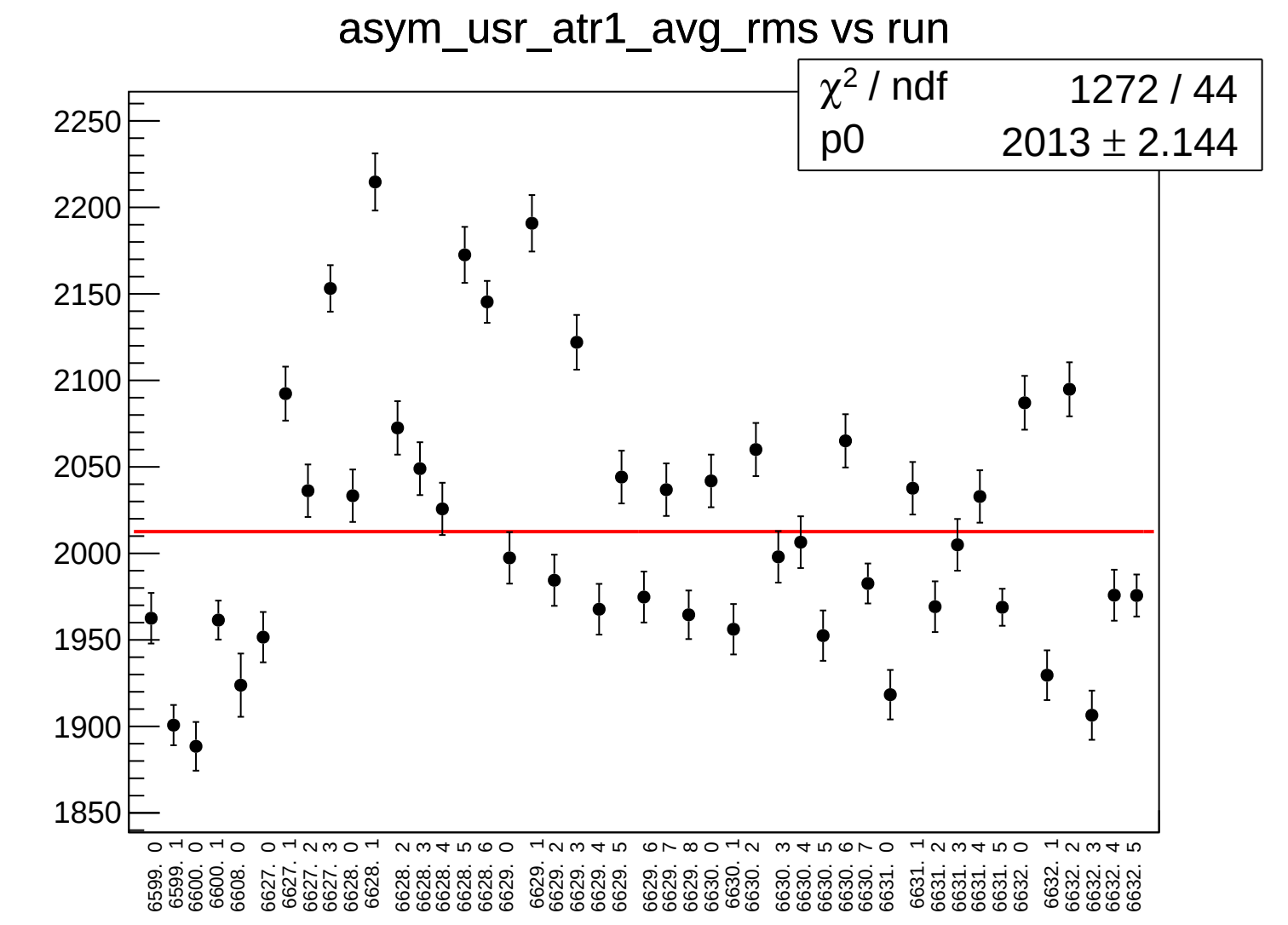

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 54.71 / 44
p0 1615 ± 1.719
1660
1640
1620
1600
1580
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

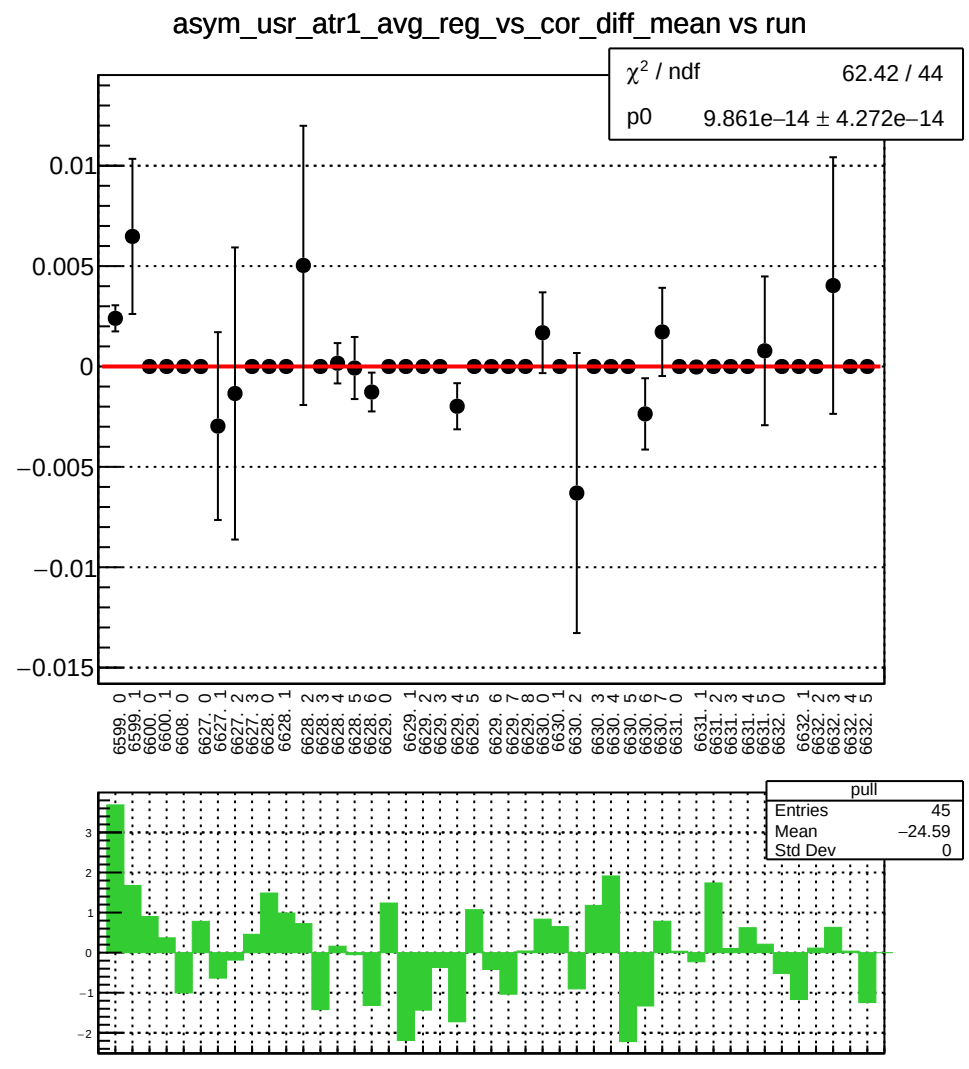

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 62.79 / 44
p0 2251 ± 1891
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −41.51
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02445
Std Dev 1.181
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

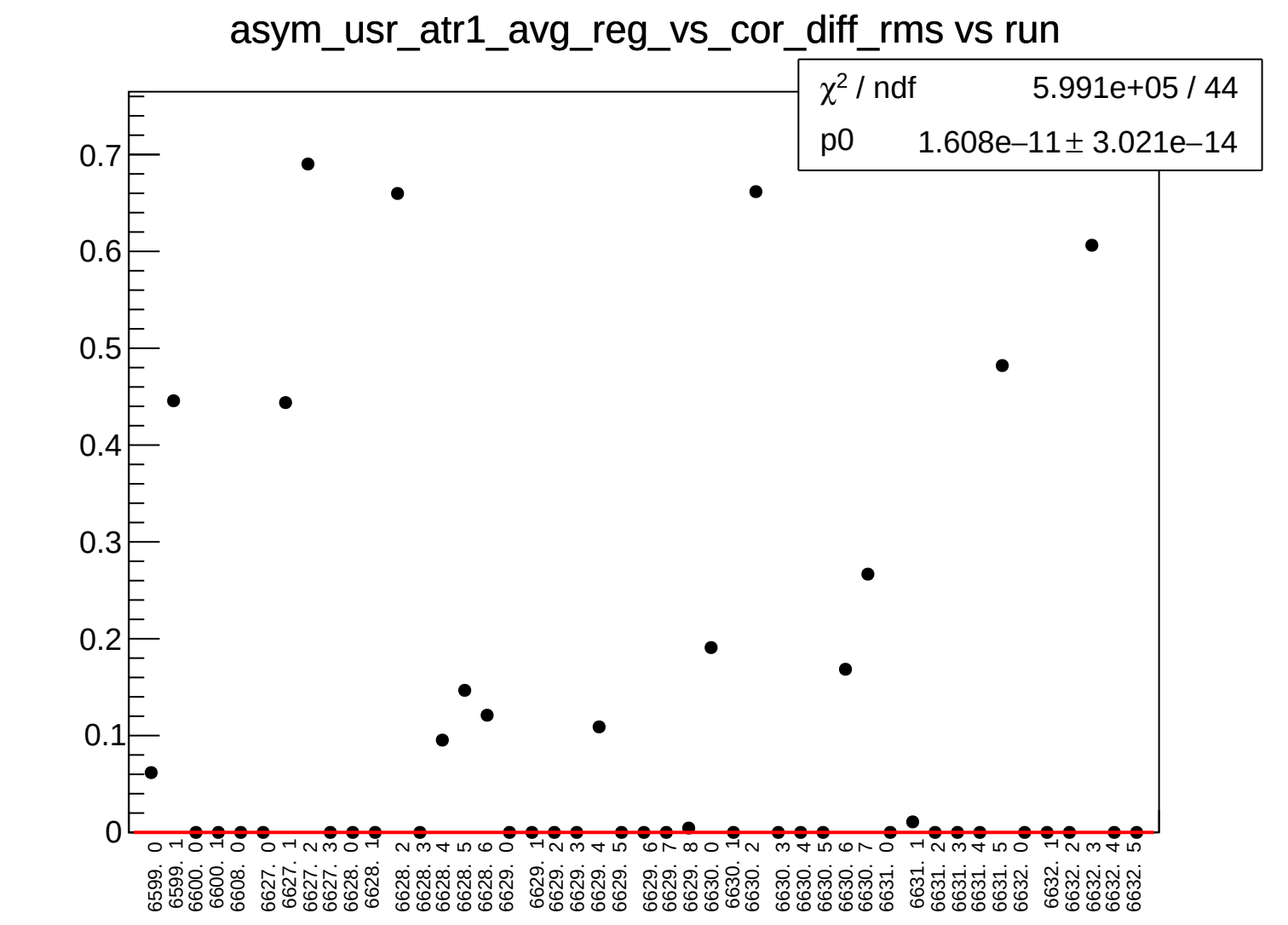

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 8275 / 44
p0 1250 ± 1.337
1600
1500
1400
1300
1200
1100
1000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

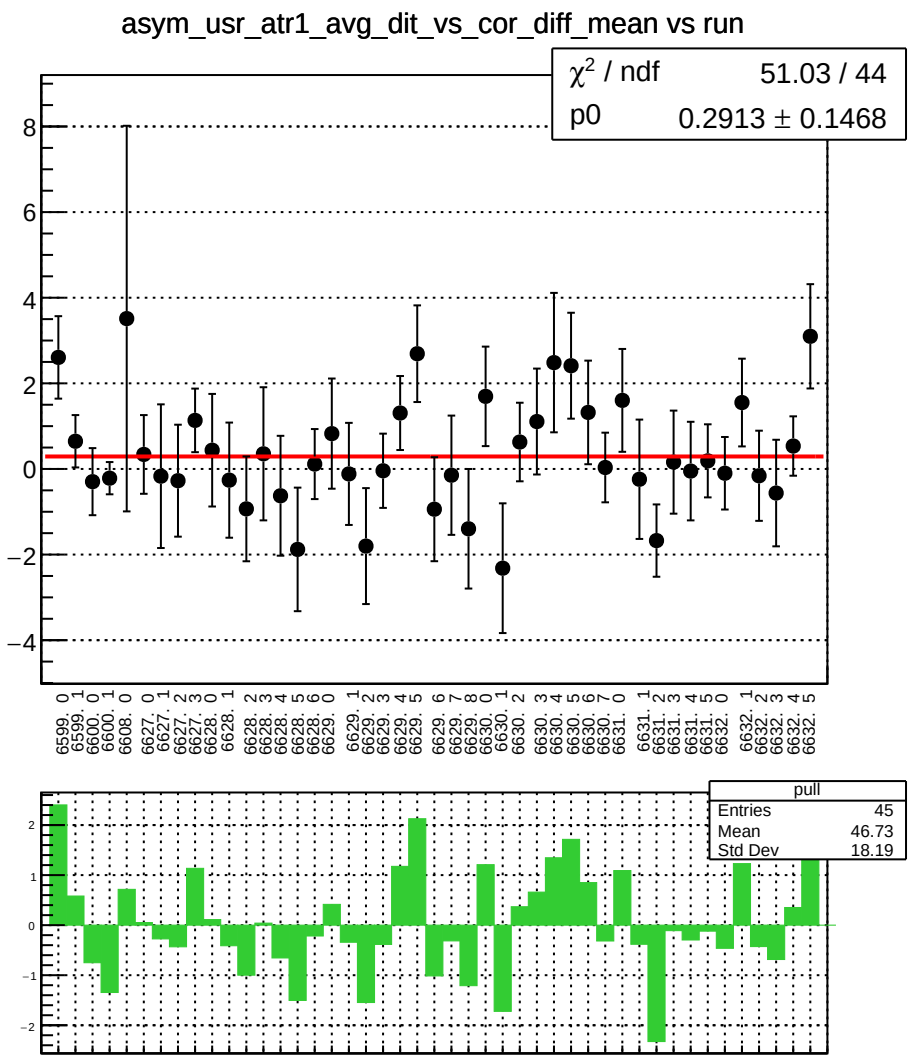

asym_usr_atr1_avg_mean vs run
×10^3
χ² / ndf 44.48 / 44
p0 −378.9 ± 3032
60
40
20
0
−20
−40
−60
−80
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 47.54
Std Dev 0
1
0
−1
−2
−3

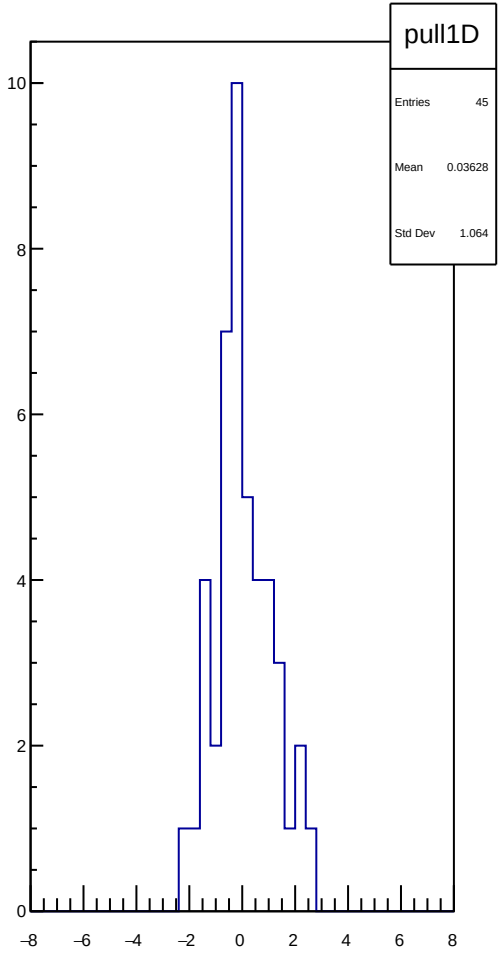

pull1D
Entries 45
Mean 0.01283
Std Dev 0.9941
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

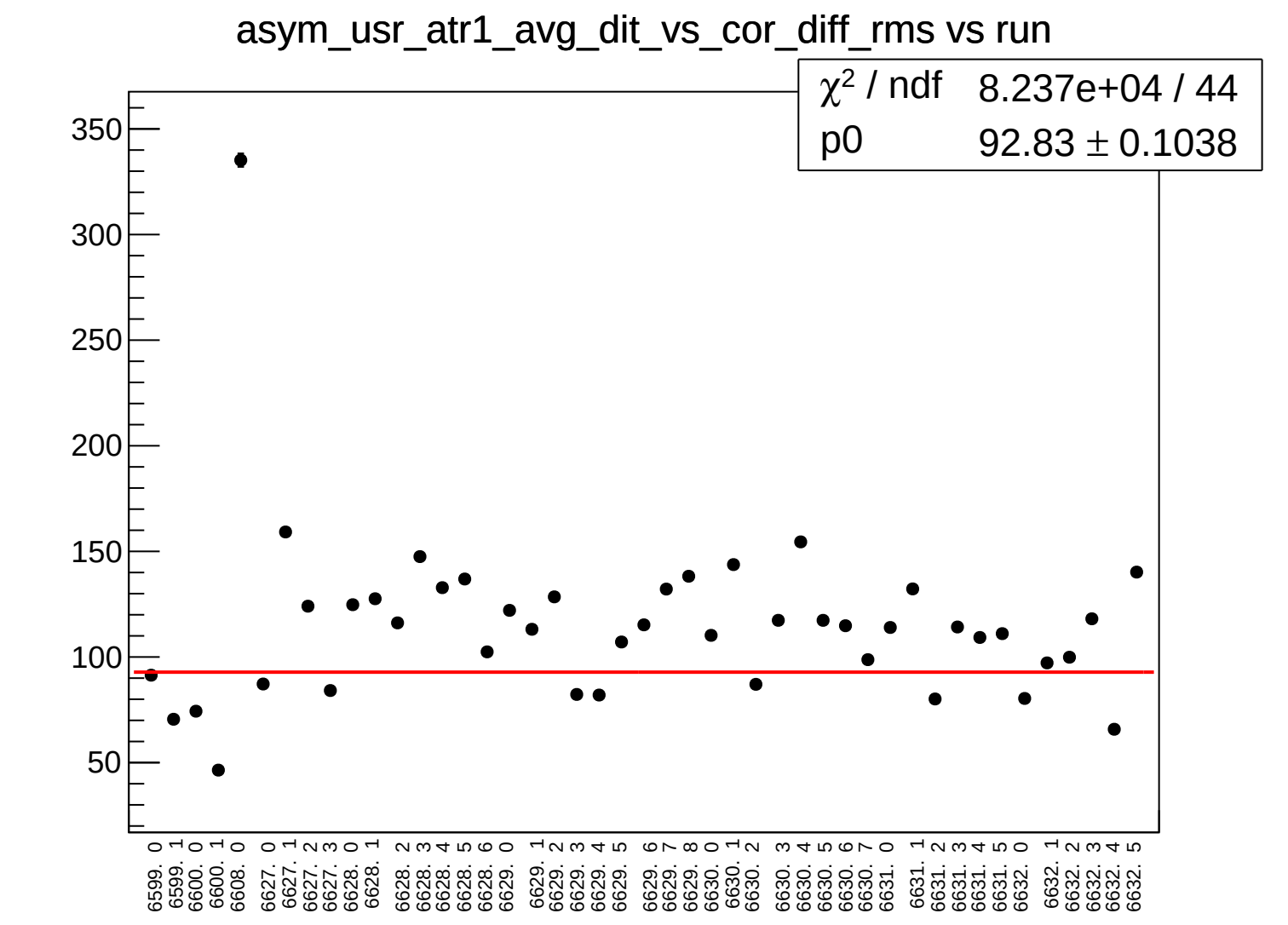

asym_usr_atr1_avg_rms vs run
χ² / ndf 1272 / 44
p0 2013 ± 2.144
2250
2200
2150
2100
2050
2000
1950
1900
1850
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 62.42 / 44
p0 9.861e−14 ± 4.272e−14
0.01
0.005
0
−0.005
−0.01
−0.015
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −24.59
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.06752
Std Dev 1.176
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.991e+05 / 44
p0 1.608e−11 ± 3.021e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 51.03 / 44
p0 0.2913 ± 0.1468
pull
Entries 45
Mean 46.73
Std Dev 18.19


pull1D
Entries 45
Mean 0.03628
Std Dev 1.064


asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.237e+04 / 44
p0 92.83 ± 0.1038
350
300
250
200
150
100
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
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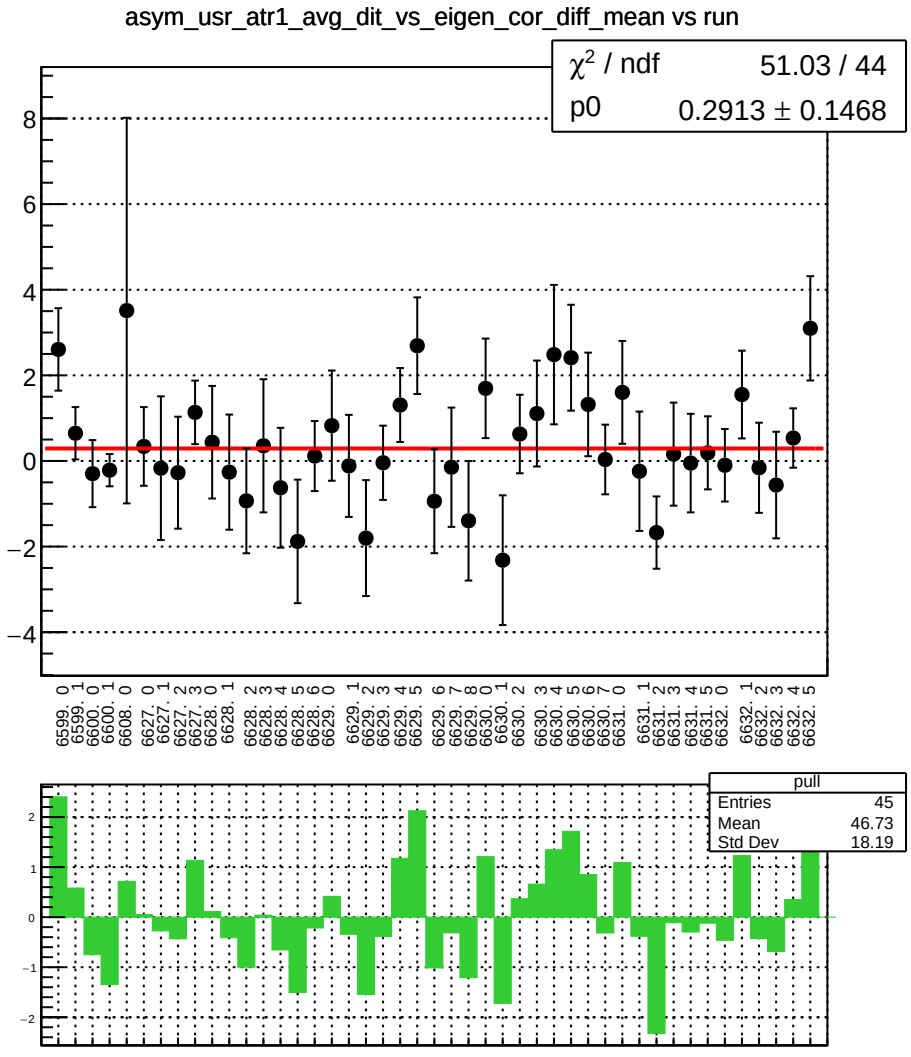
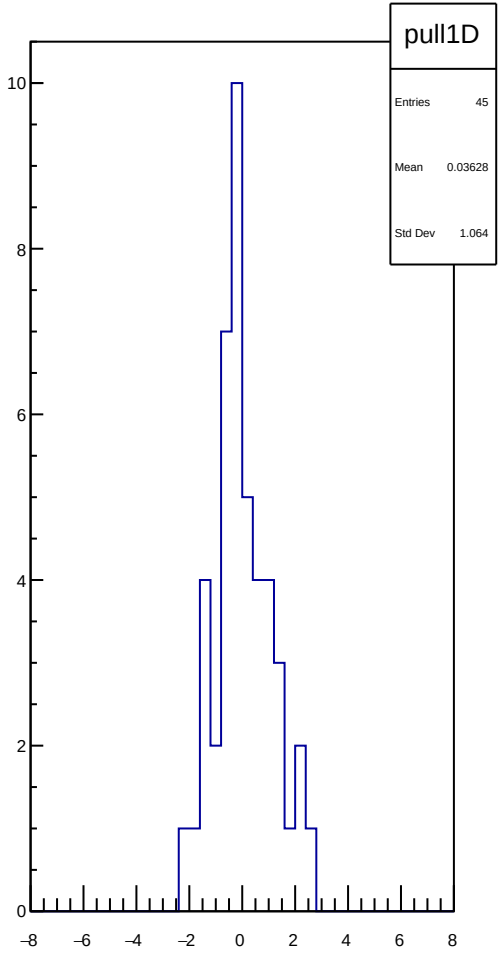
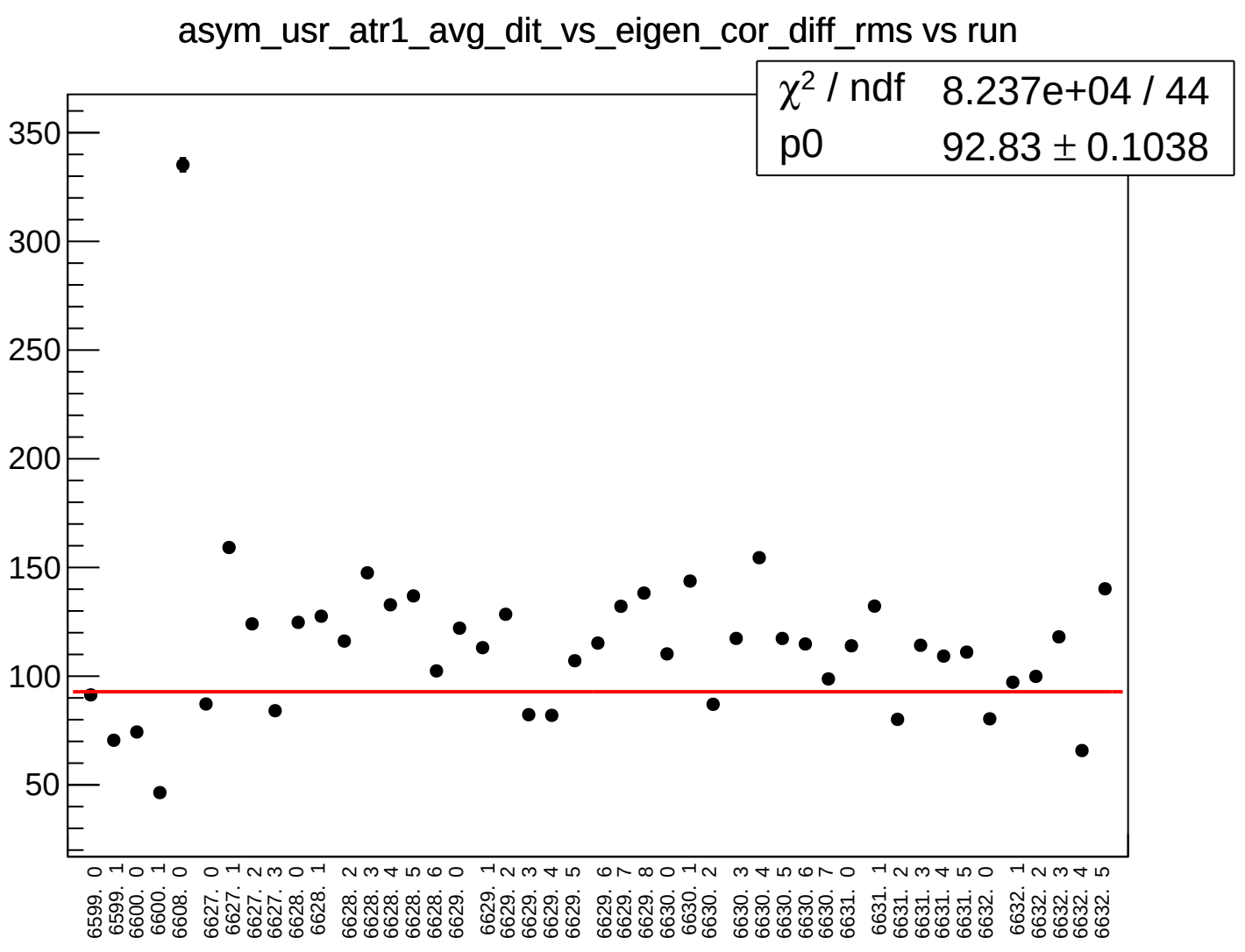
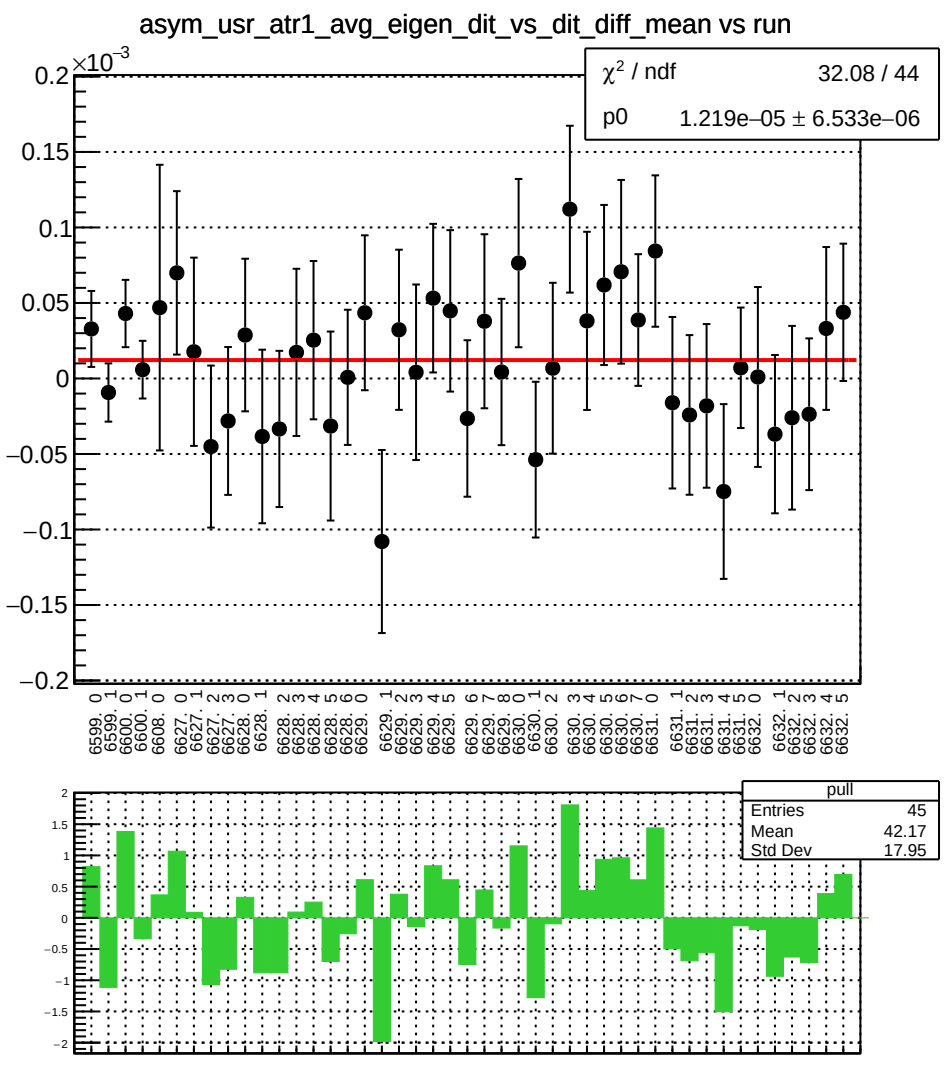
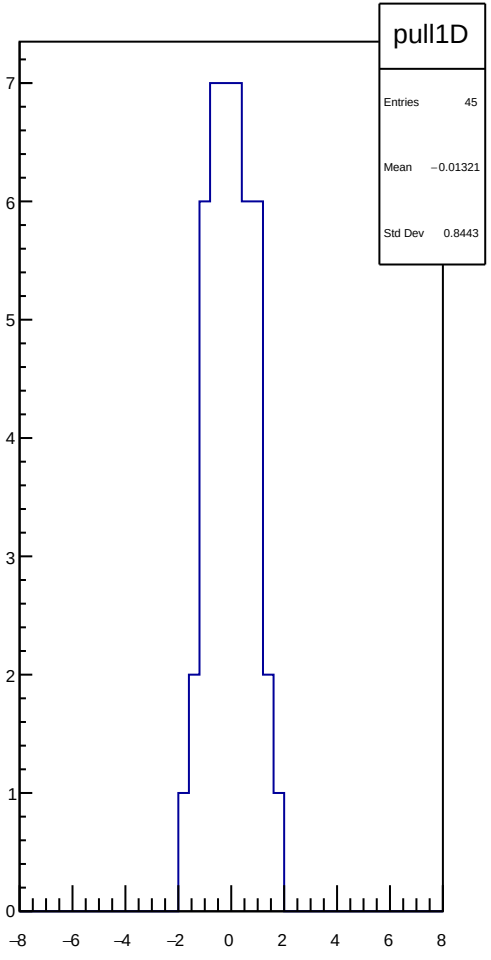
6632. 2
6632. 3
6632. 4
6632. 5

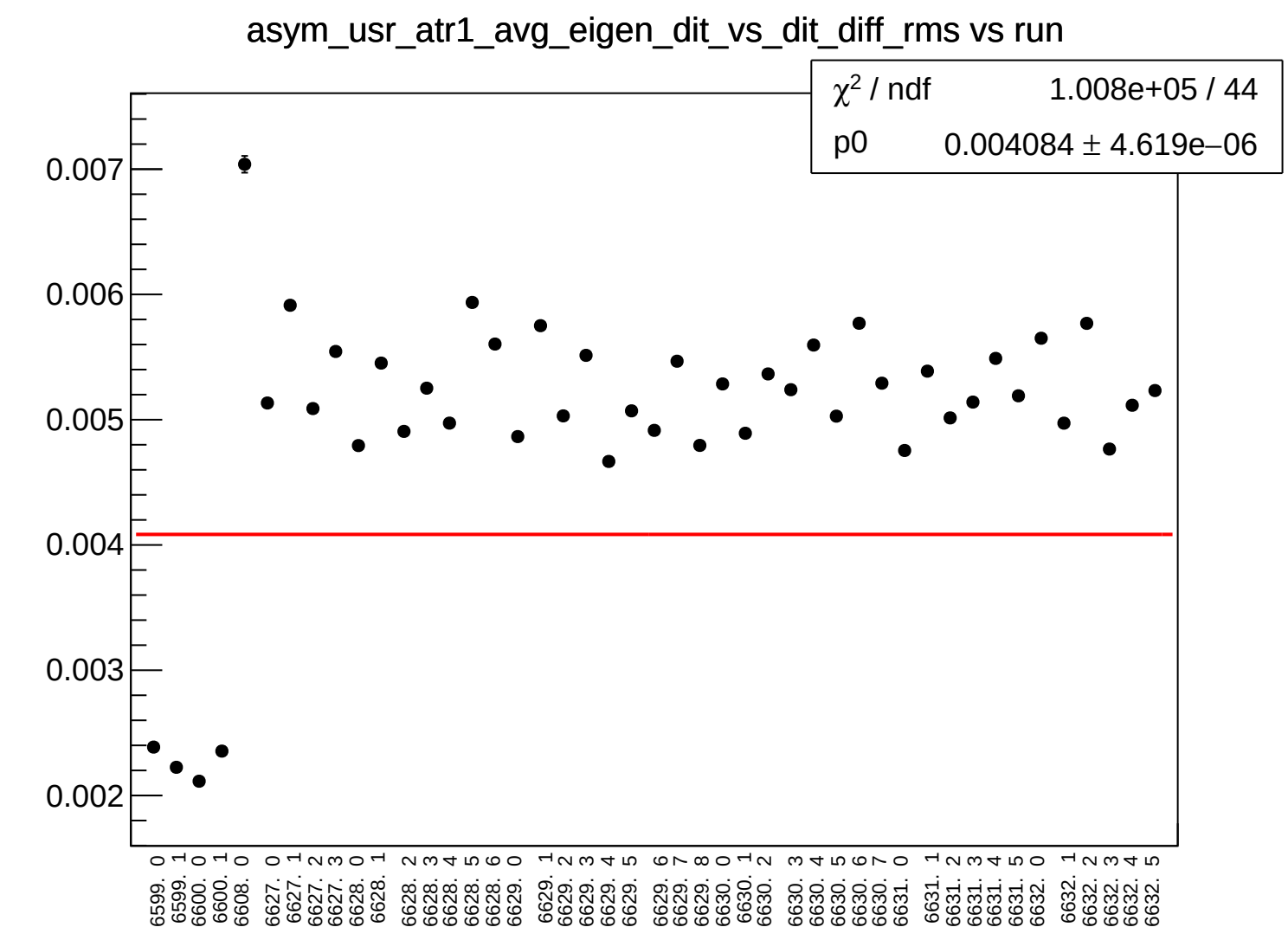

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.03 / 44
p0 0.2913 ± 0.1468
pull
Entries 45
Mean 46.73
Std Dev 18.19

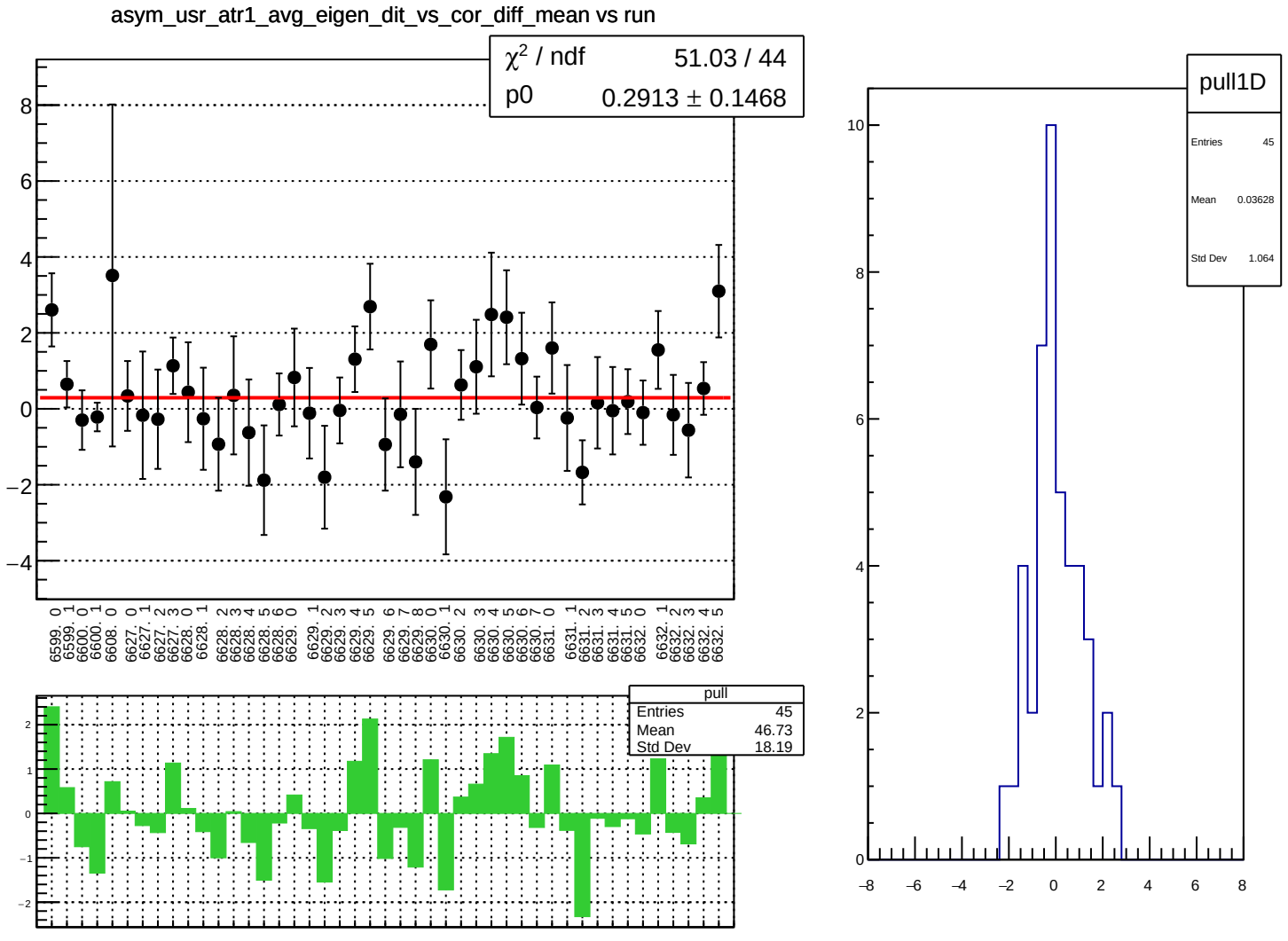

pull1D
Entries 45
Mean 0.03628
Std Dev 1.064

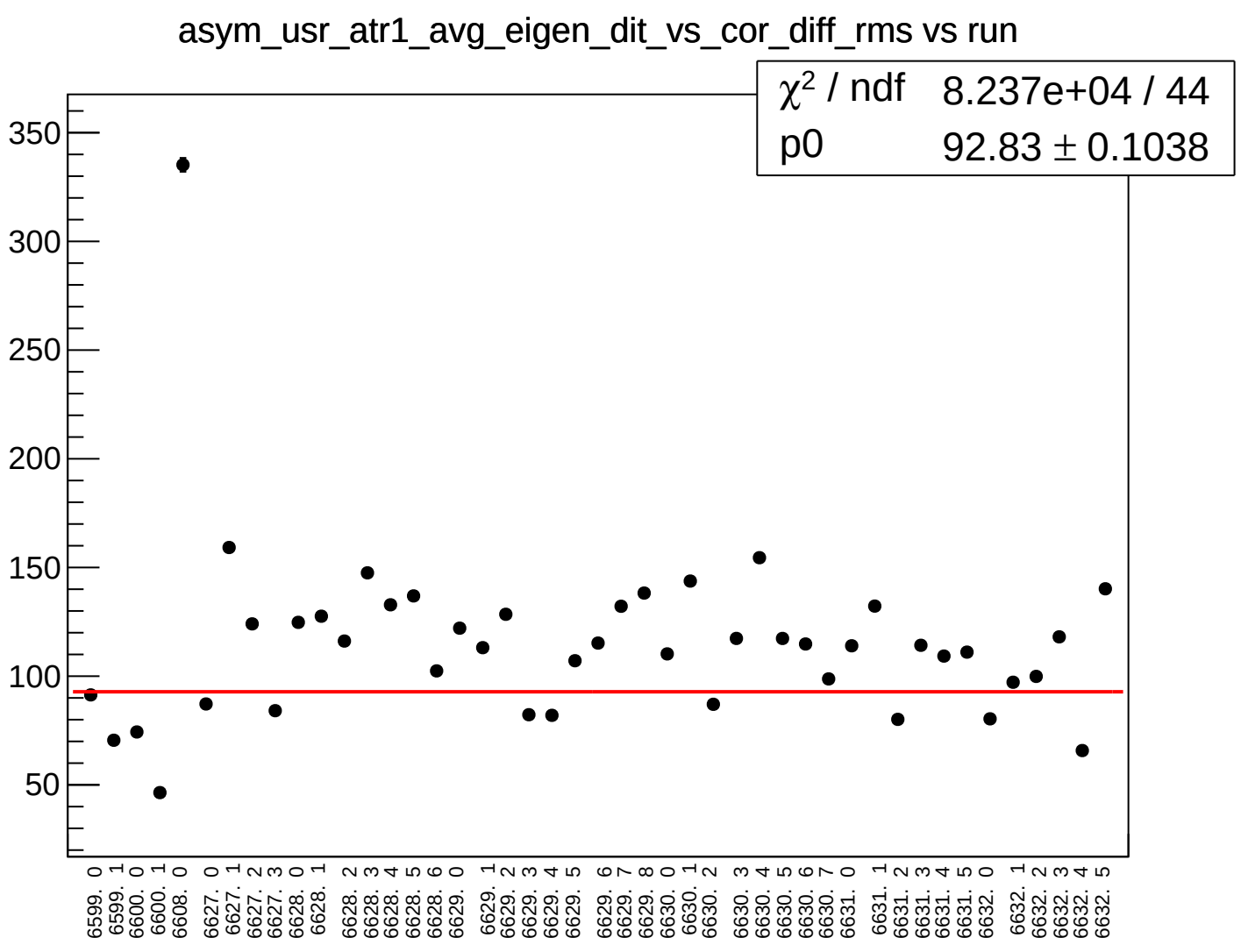

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.237e+04 / 44
p0 92.83 ± 0.1038
350
300
250
200
150
100
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

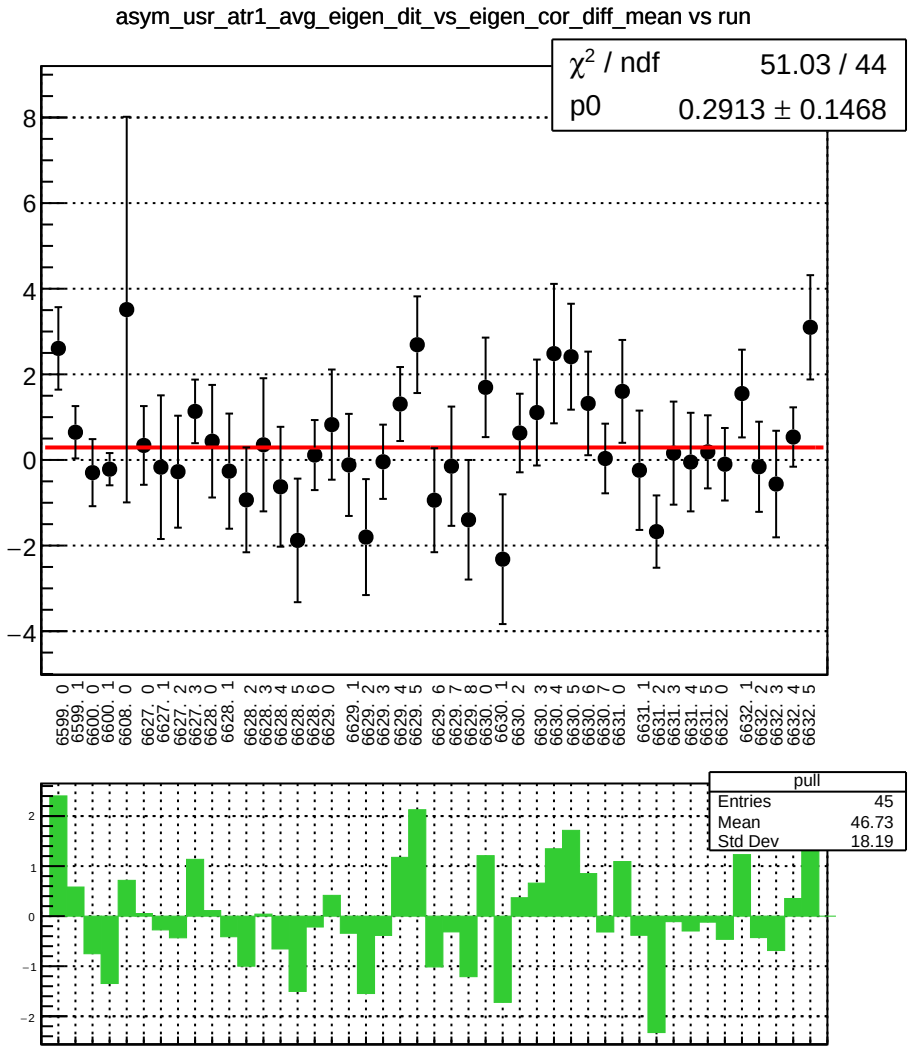

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 32.08 / 44
p0 1.219e−05 ± 6.533e−06
pull
Entries 45
Mean 42.17
Std Dev 17.95

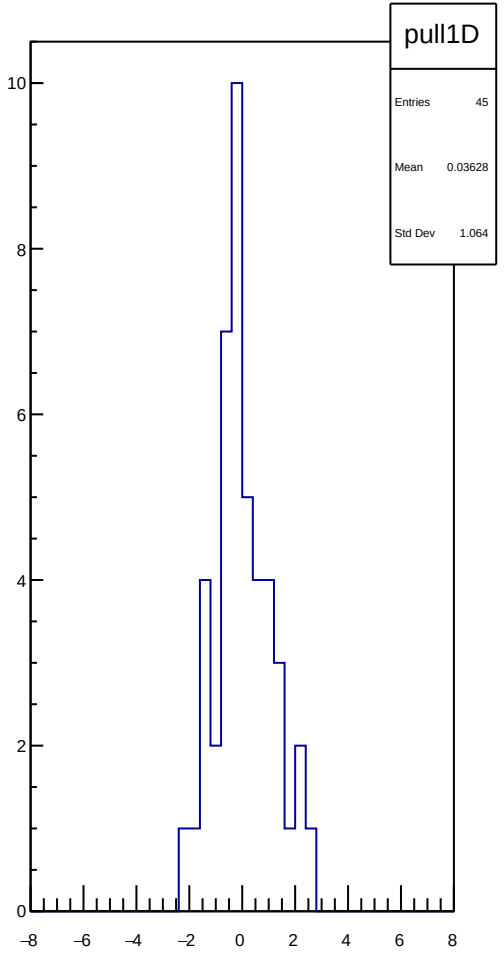

pull1D
Entries 45
Mean −0.01321
Std Dev 0.8443

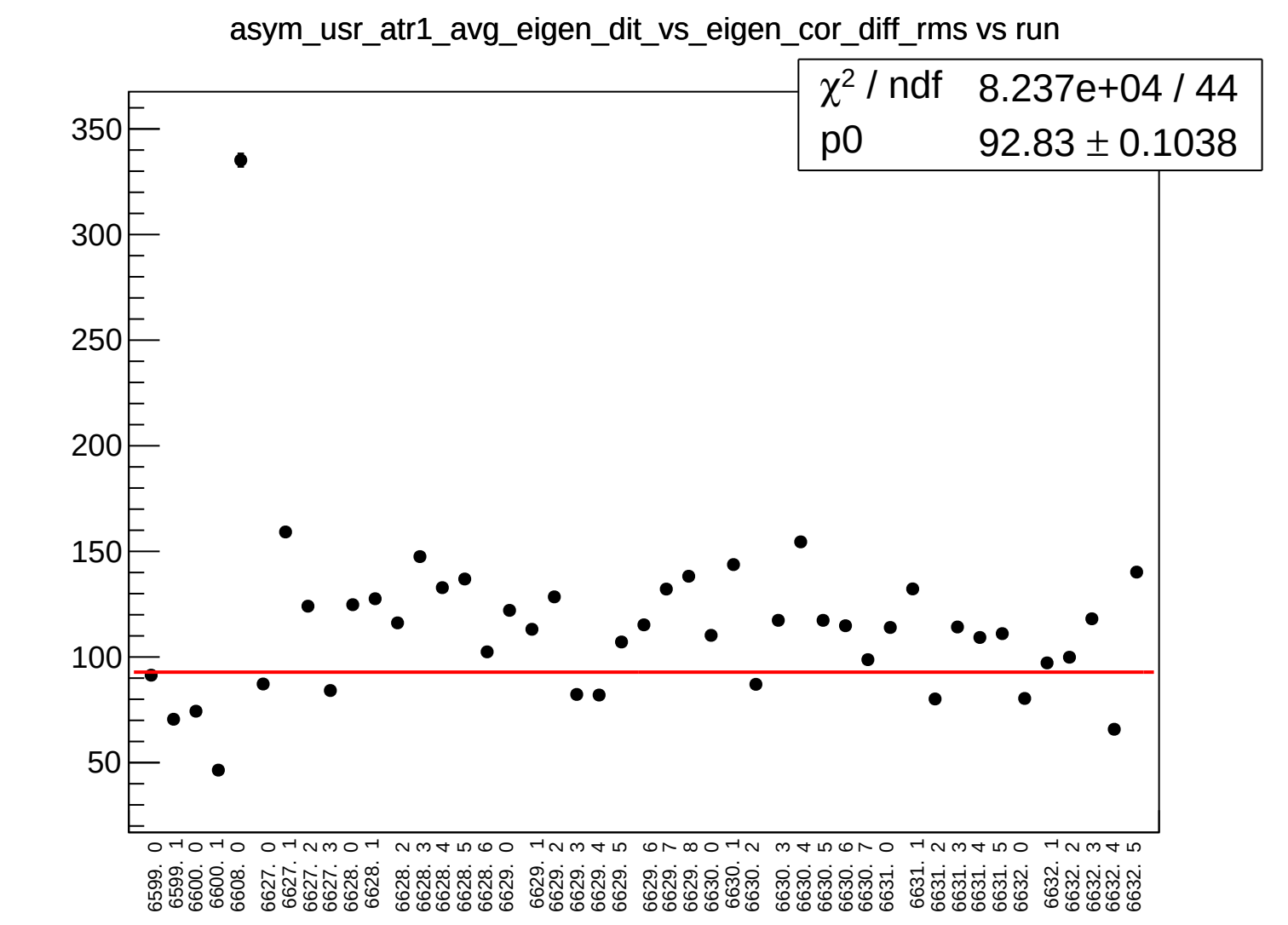

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.008e+05 / 44
p0 0.004084 ± 4.619e−06
0.007
0.006
0.005
0.004
0.003
0.002
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

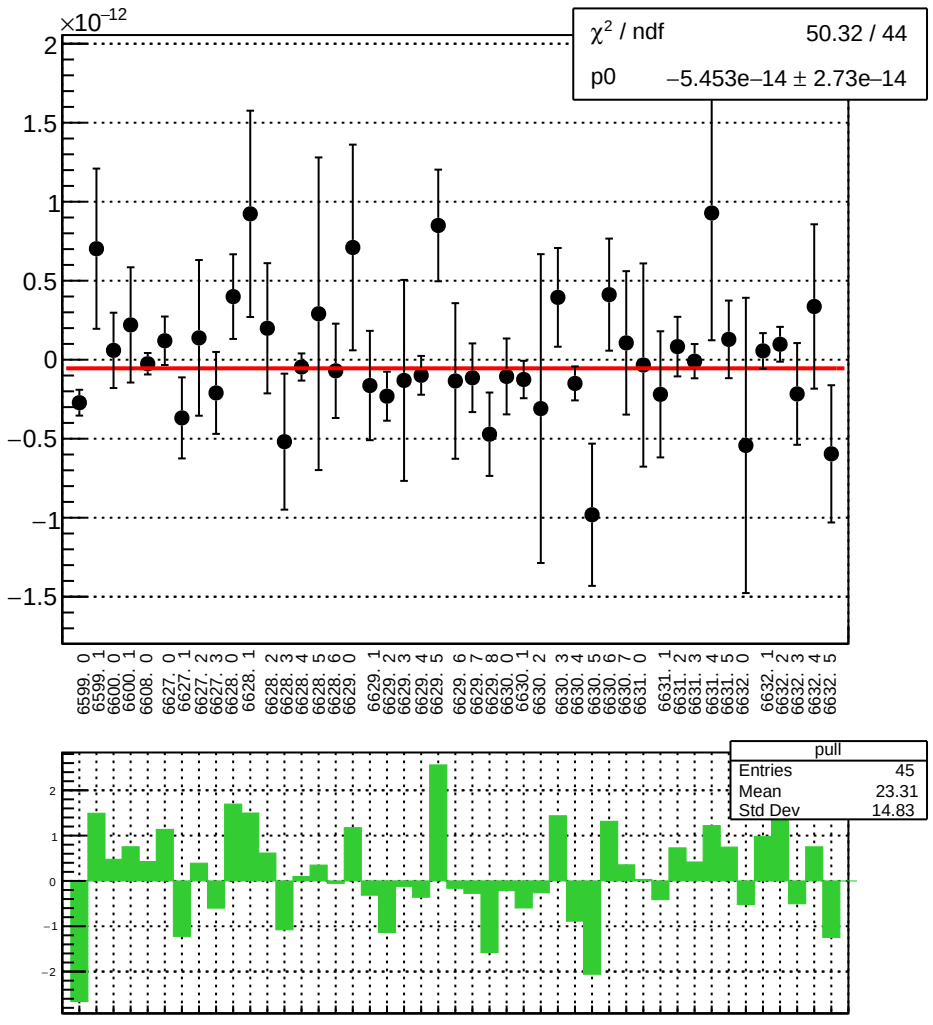

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 51.03 / 44
p0 0.2913 ± 0.1468
pull
Entries 45
Mean 46.73
Std Dev 18.19
pull1D
Entries 45
Mean 0.03628
Std Dev 1.064

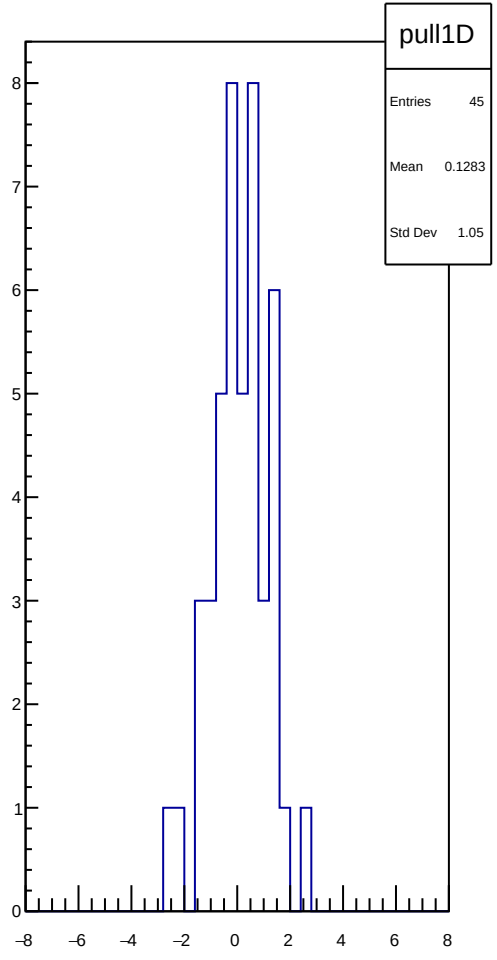

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.237e+04 / 44
p0 92.83 ± 0.1038
350
300
250
200
150
100
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

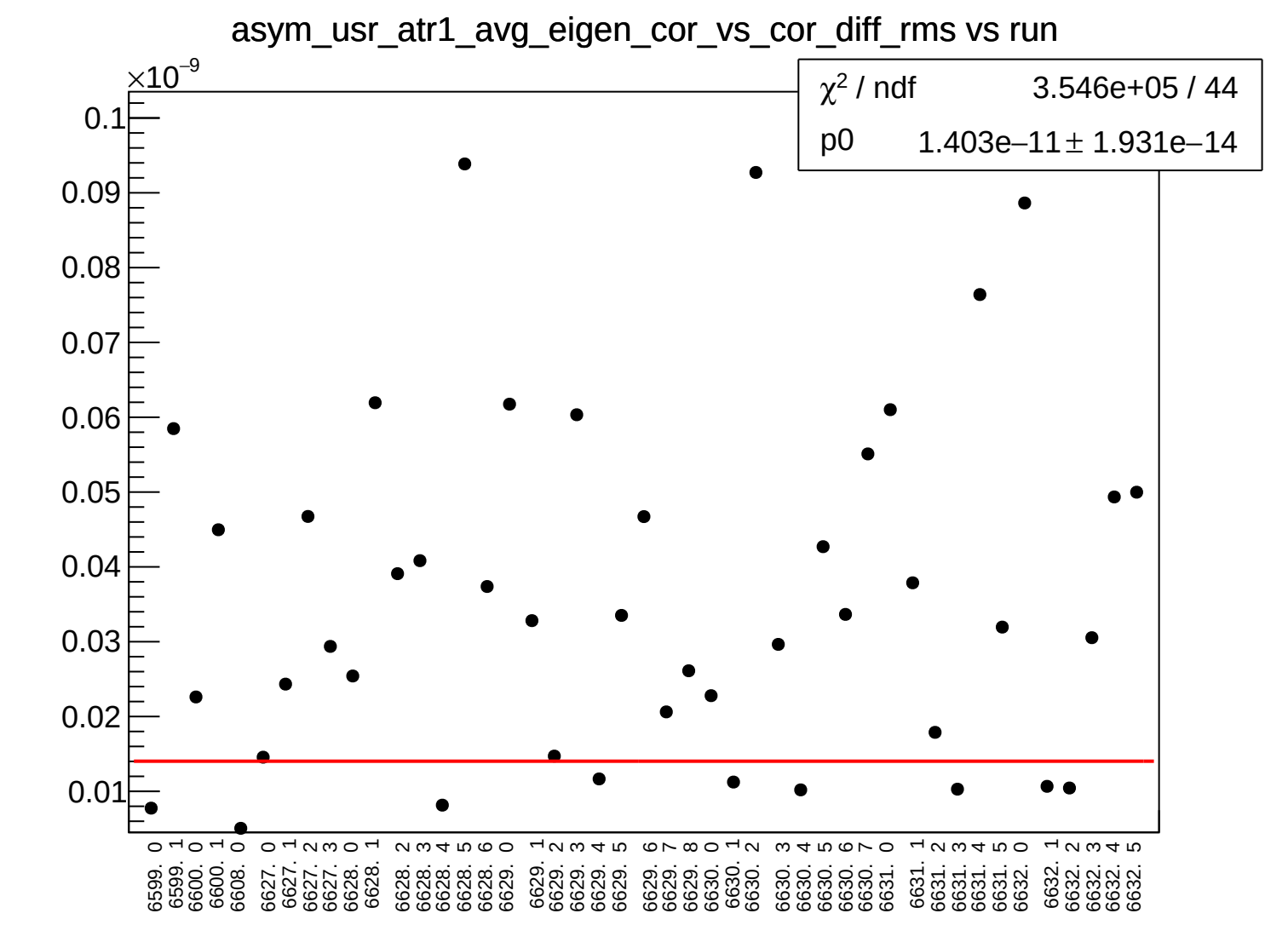

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.03 / 44
p0 0.2913 ± 0.1468
pull
Entries 45
Mean 46.73
Std Dev 18.19

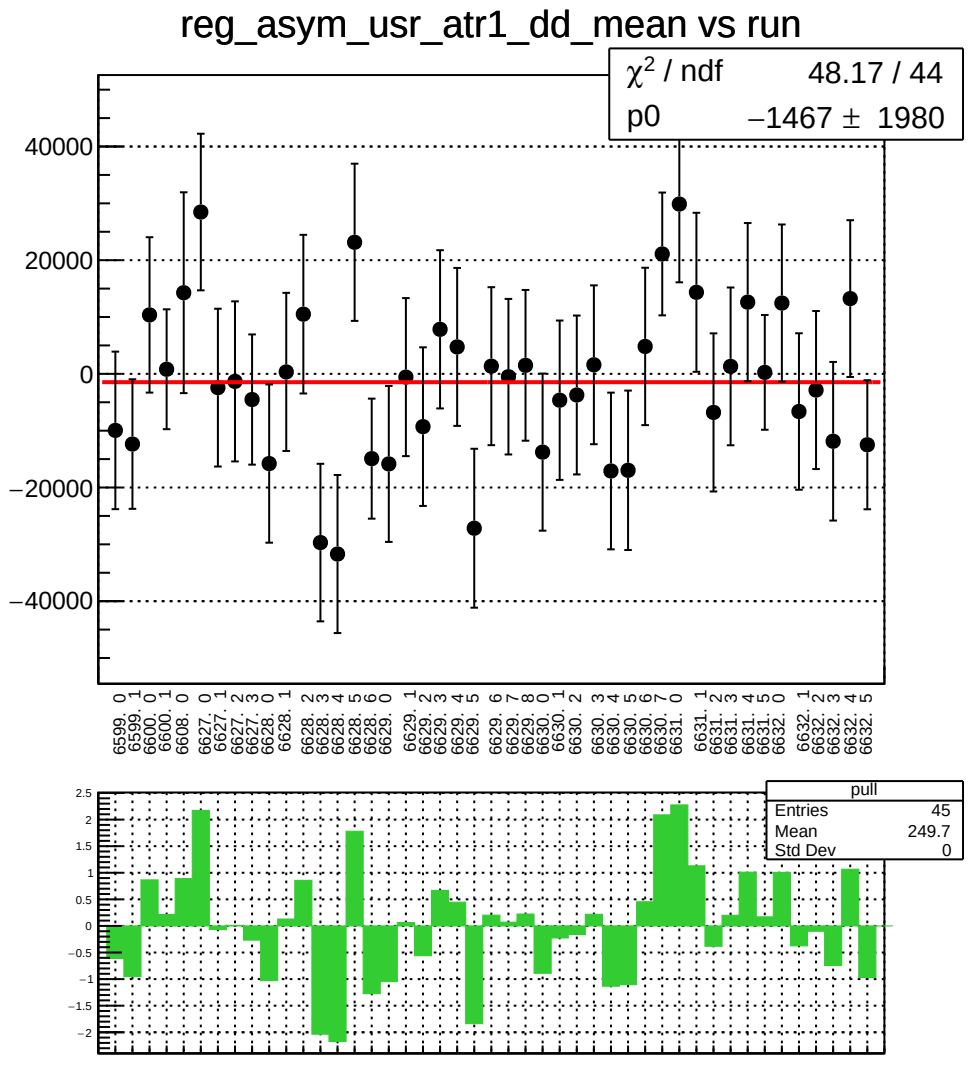

pull1D
Entries 45
Mean 0.03628
Std Dev 1.064

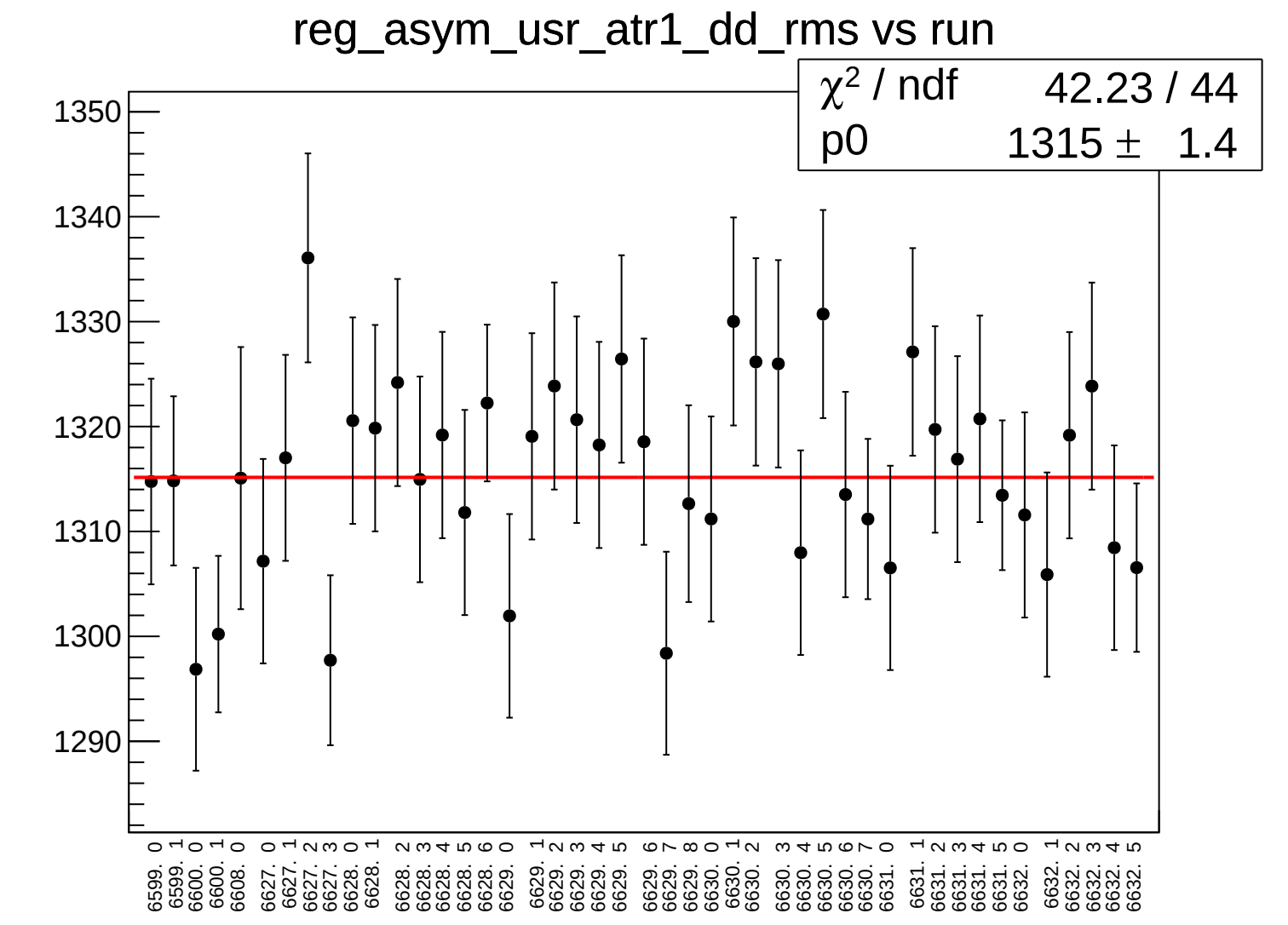

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.237e+04 / 44
p0 92.83 ± 0.1038
350
300
250
200
150
100
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 50.32 / 44
p0 −5.453e−14 ± 2.73e−14
pull
Entries 45
Mean 23.31
Std Dev 14.83


pull1D
Entries 45
Mean 0.1283
Std Dev 1.05


asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.546e+05 / 44
p0 1.403e−11 ± 1.931e−14
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 48.17 / 44
p0 −1467 ± 1980
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 249.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.006121
Std Dev 1.035
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 42.23 / 44
p0 1315 ± 1.4
1350
1340
1330
1320
1310
1300
1290
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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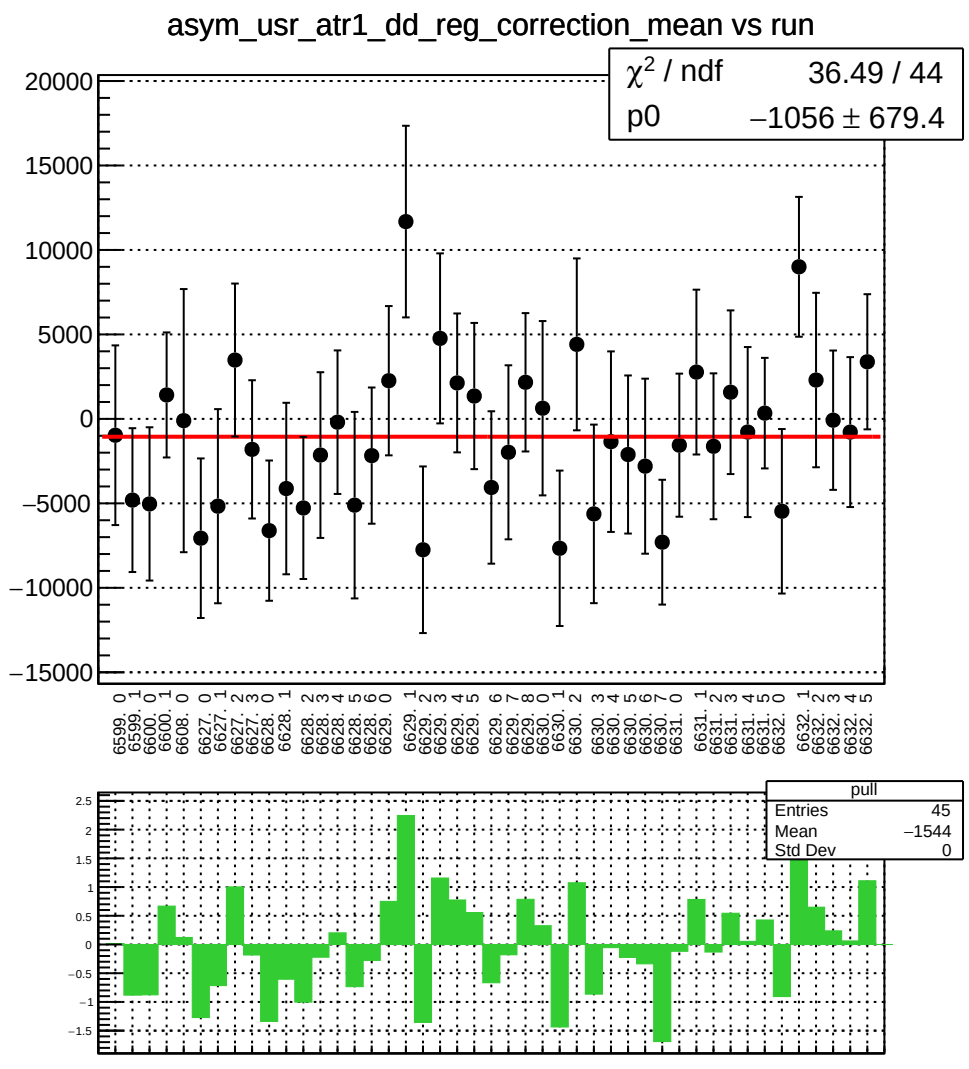
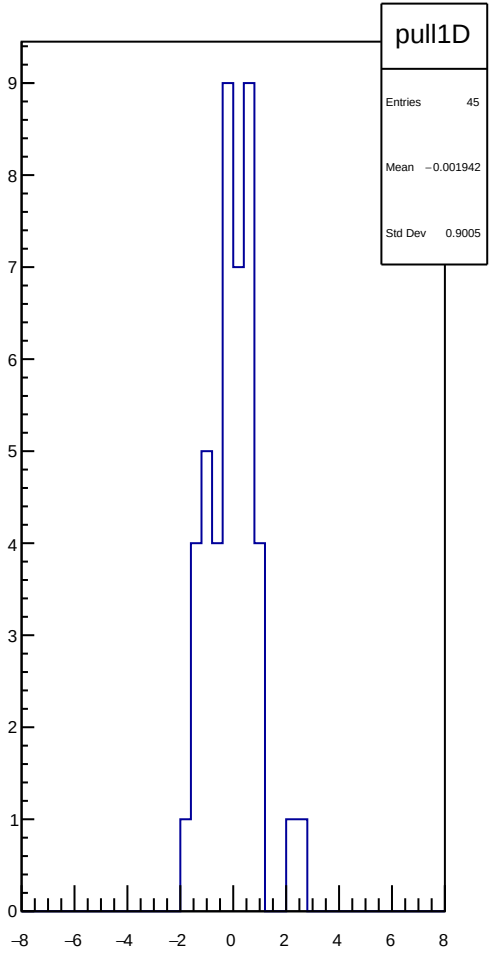
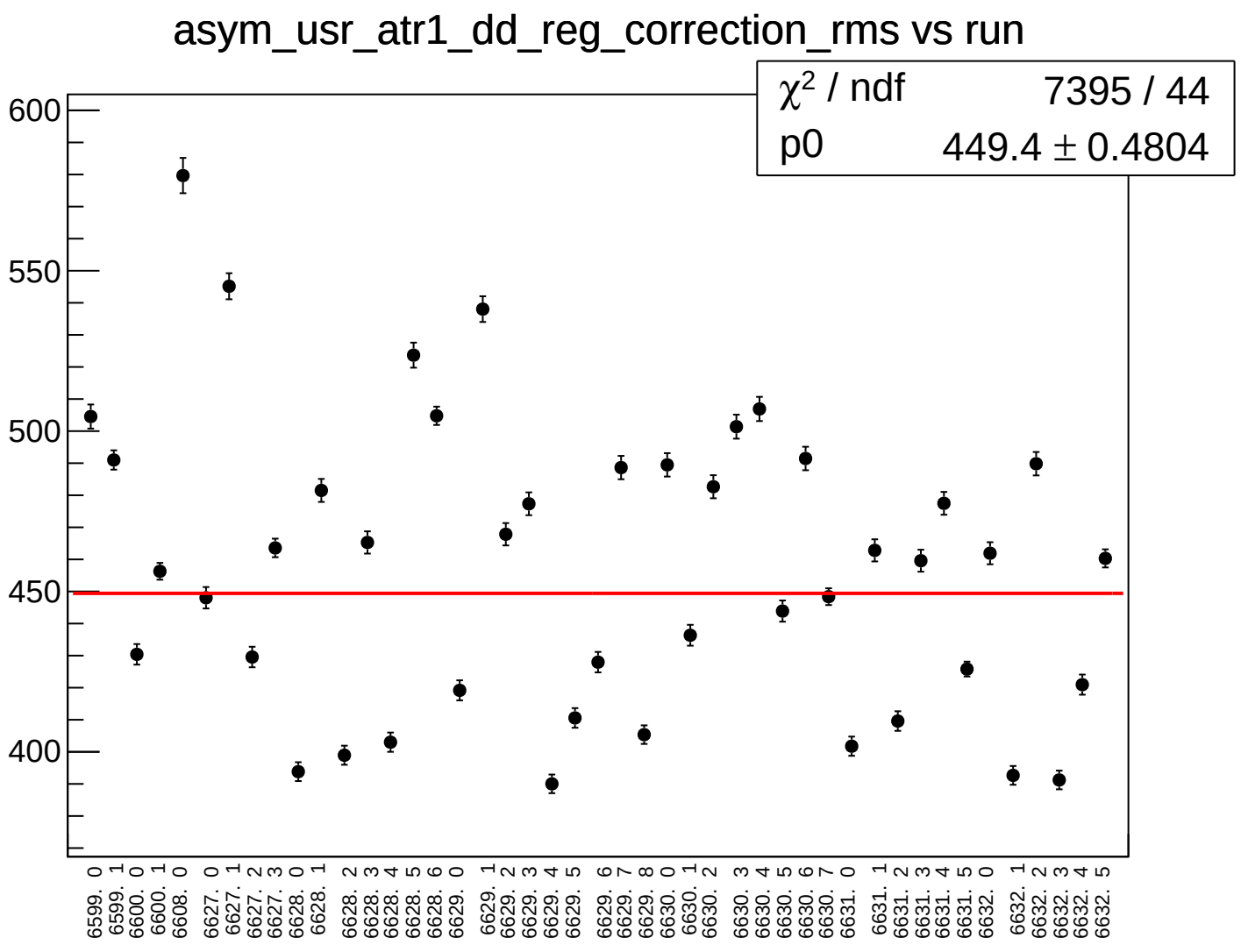
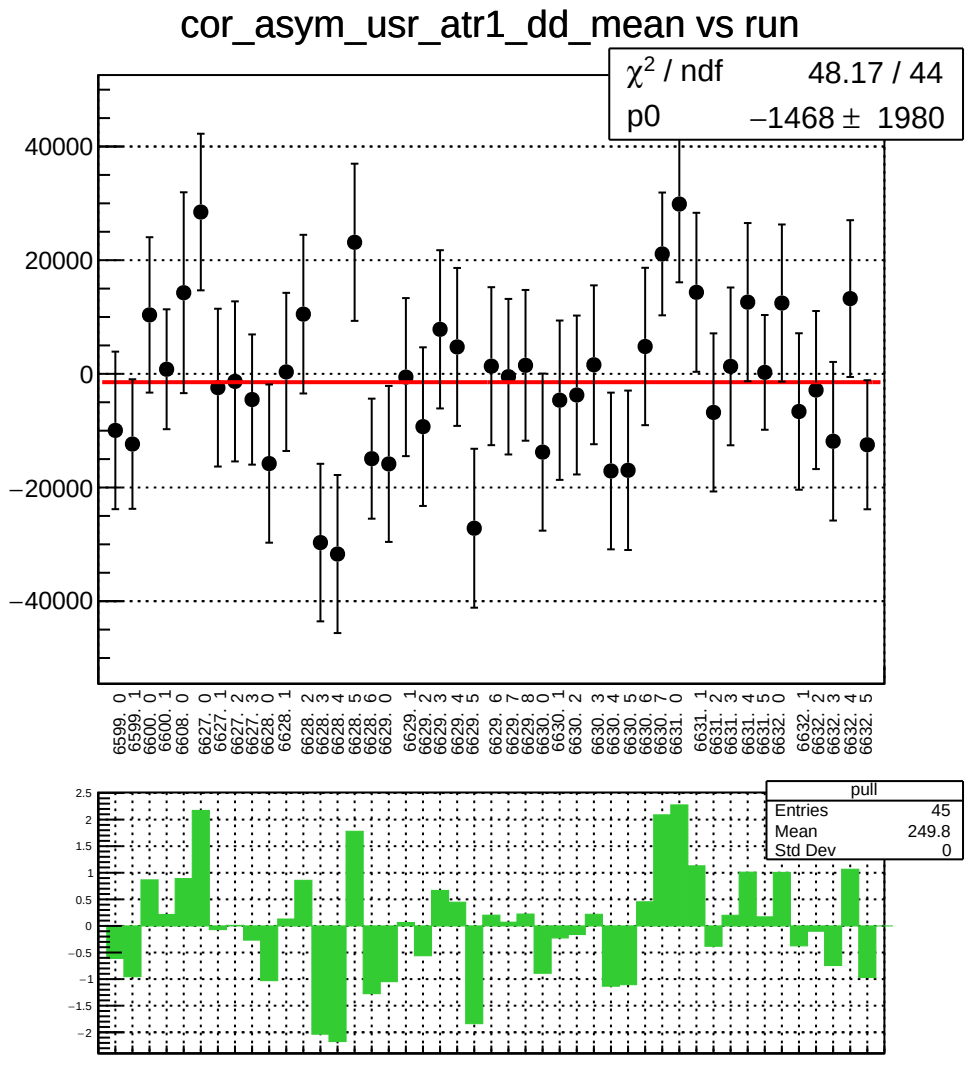
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 36.49 / 44
p0 −1056 ± 679.4
20000
15000
10000
5000
0
−5000
−10000
−15000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −1544
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.001942
Std Dev 0.9005
9
8
7
6
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 7395 / 44
p0 449.4 ± 0.4804
600
550
500
450
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 48.17 / 44
p0 −1468 ± 1980
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
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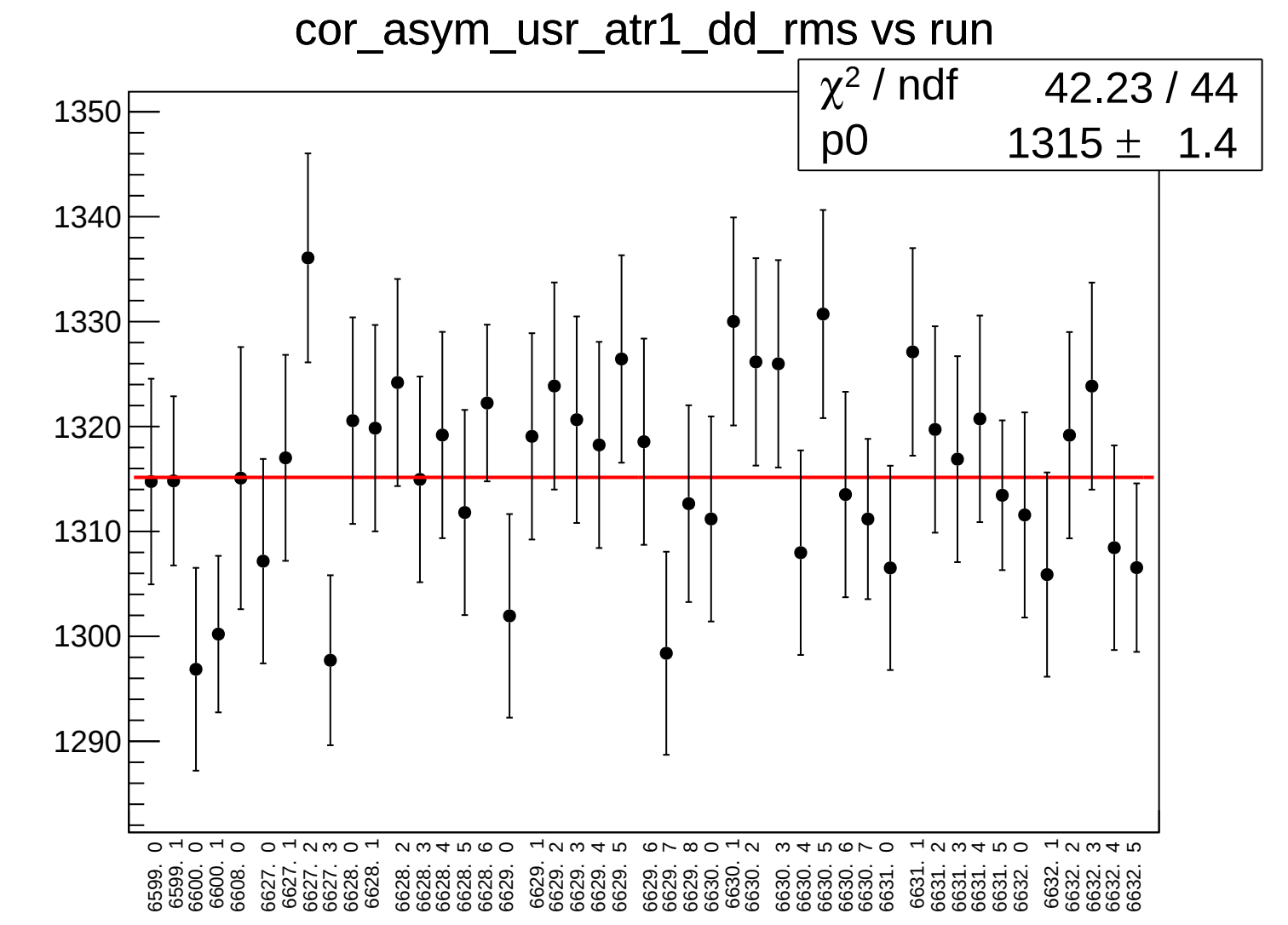
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 249.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.00612
Std Dev 1.035
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 42.23 / 44
p0 1315 ± 1.4
1350
1340
1330
1320
1310
1300
1290
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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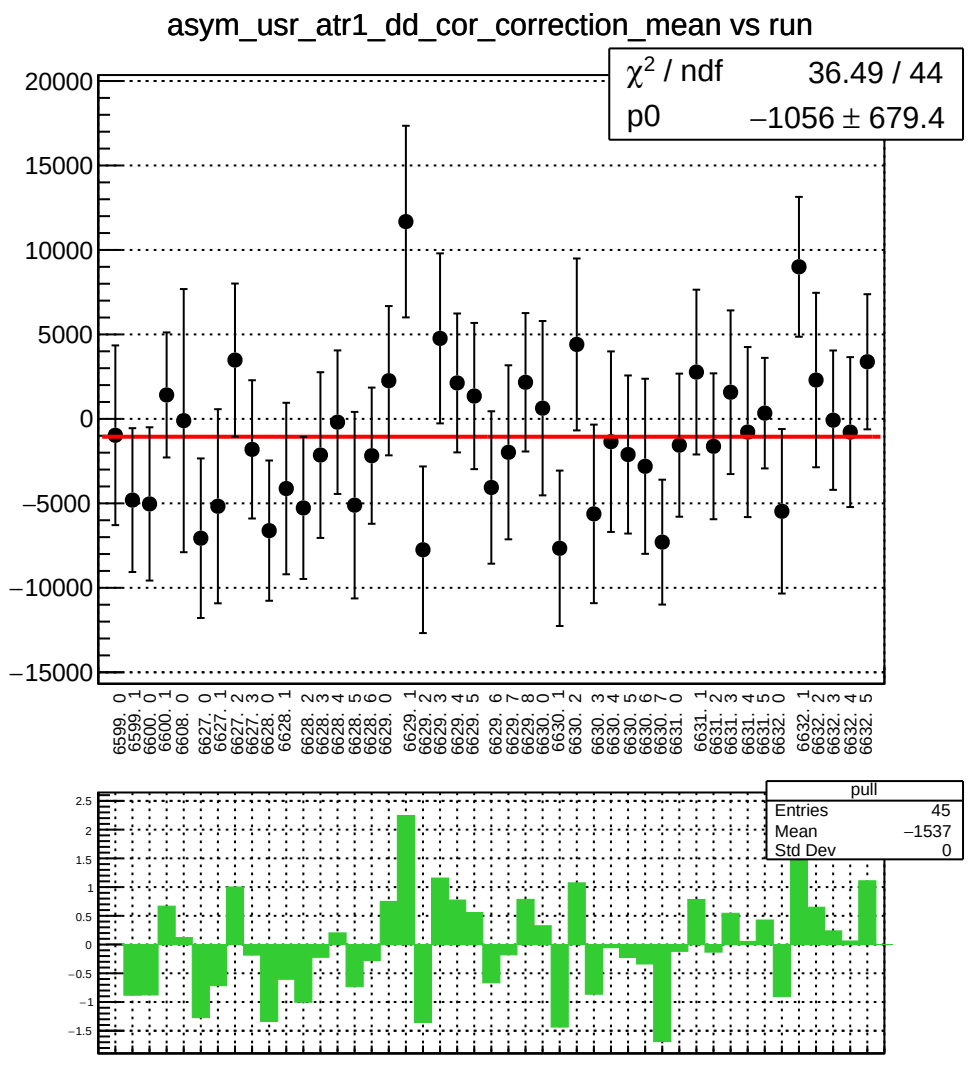
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 36.49 / 44
p0 −1056 ± 679.4
20000
15000
10000
5000
0
−5000
−10000
−15000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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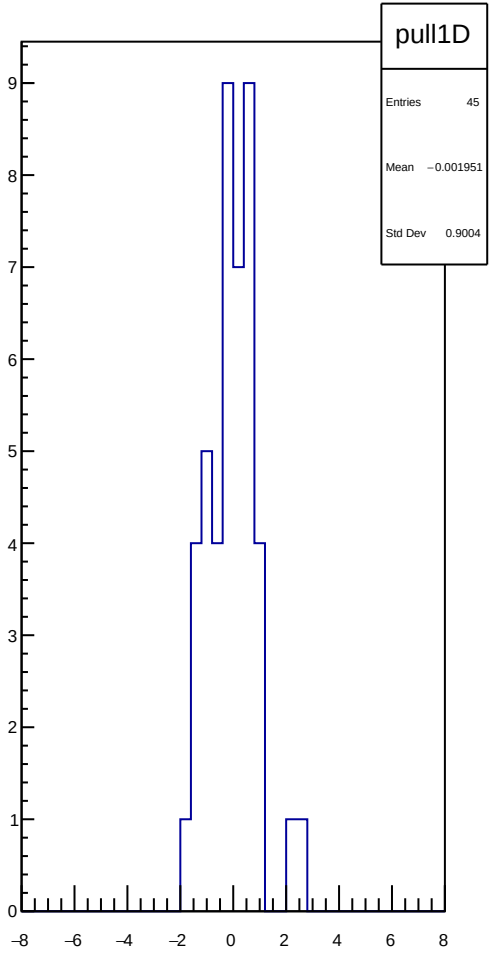
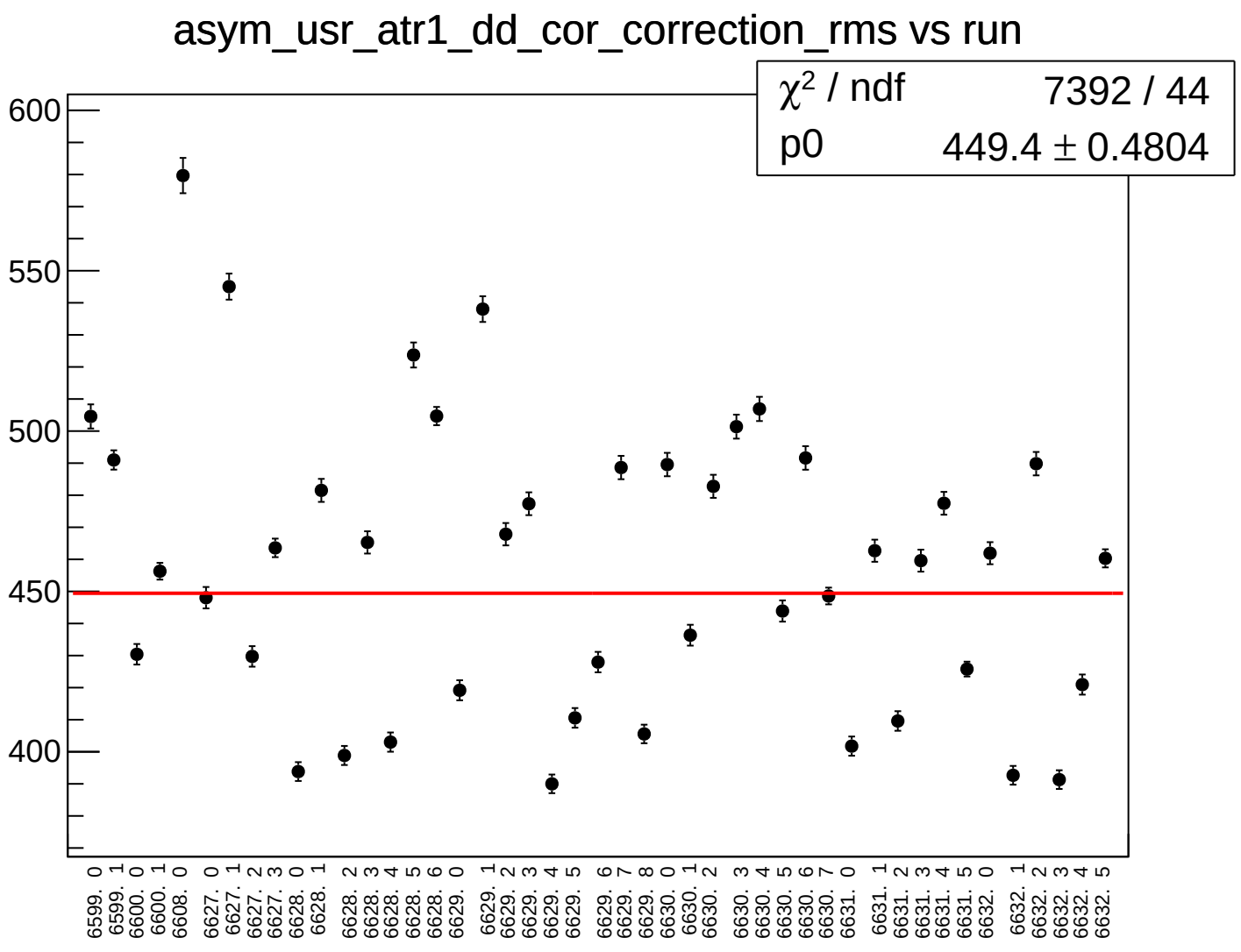
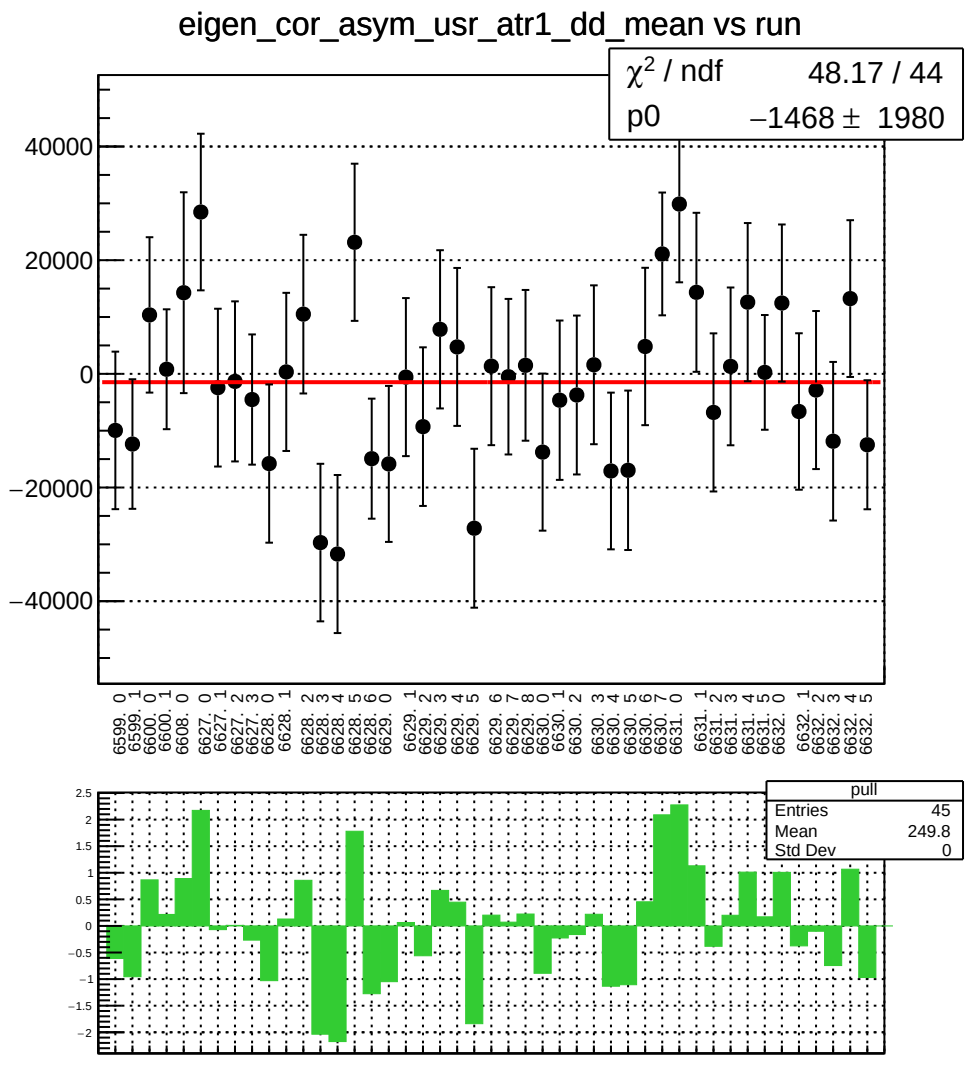
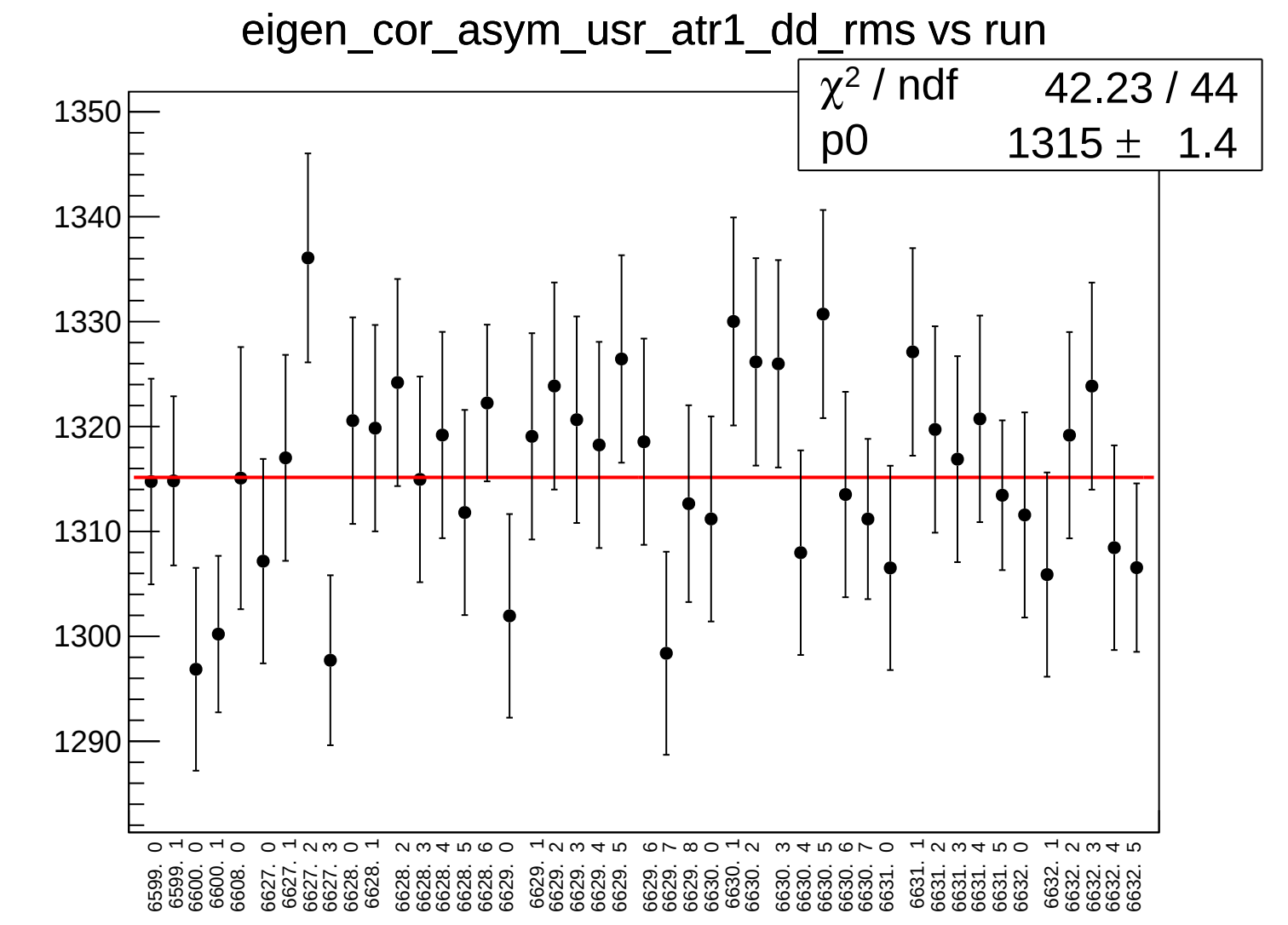
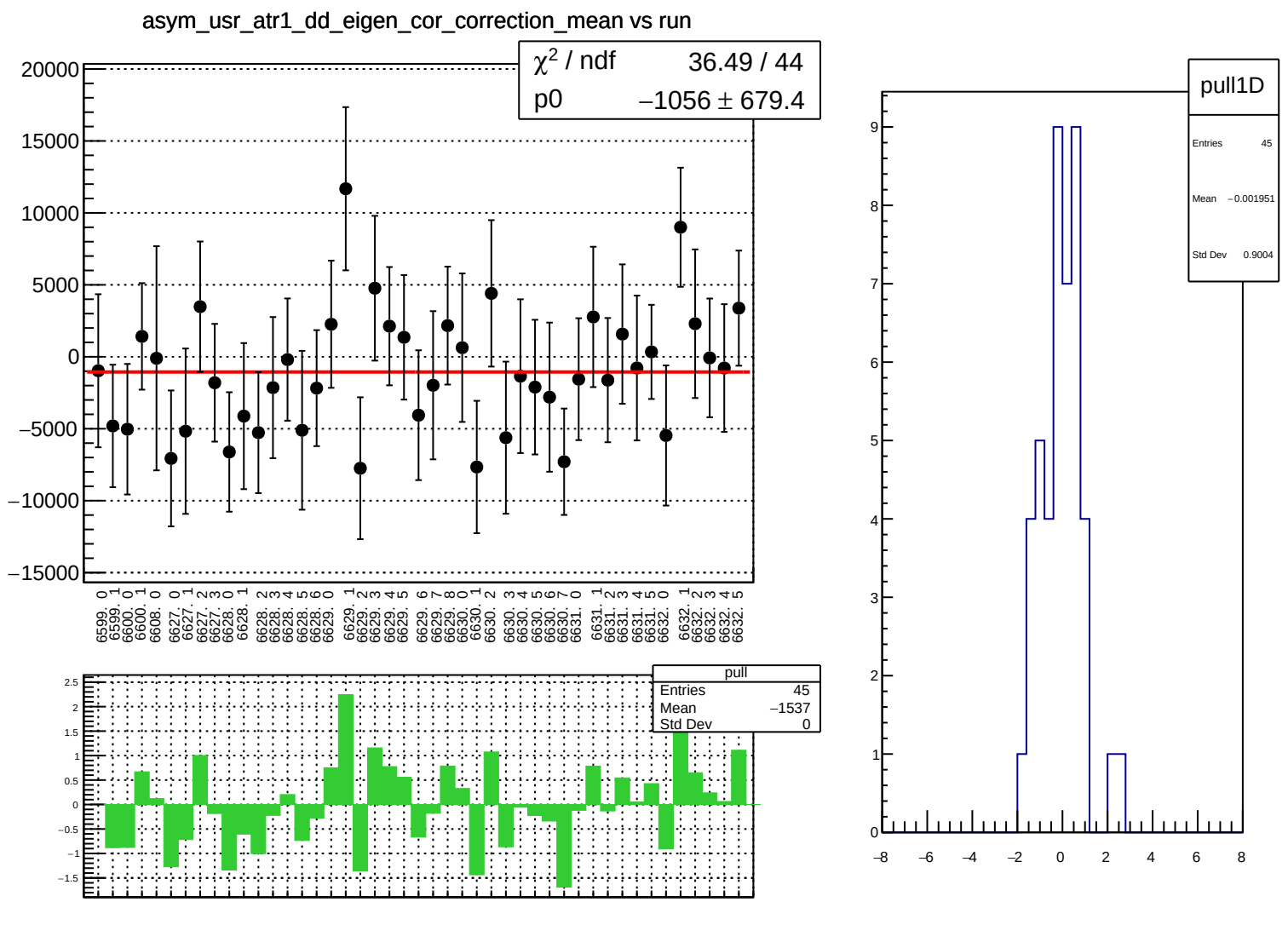
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −1537
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

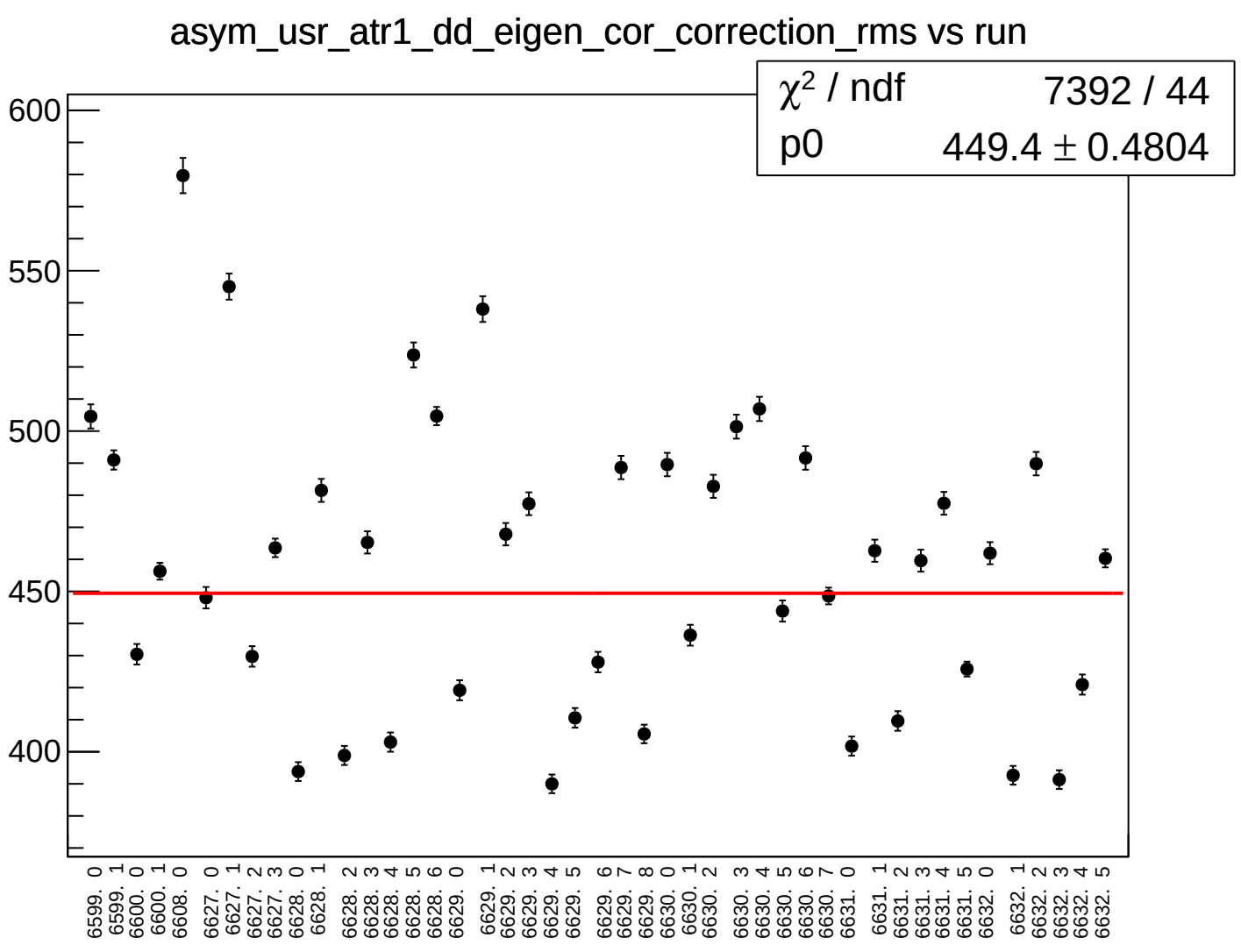

pull1D
Entries 45
Mean −0.001951
Std Dev 0.9004
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

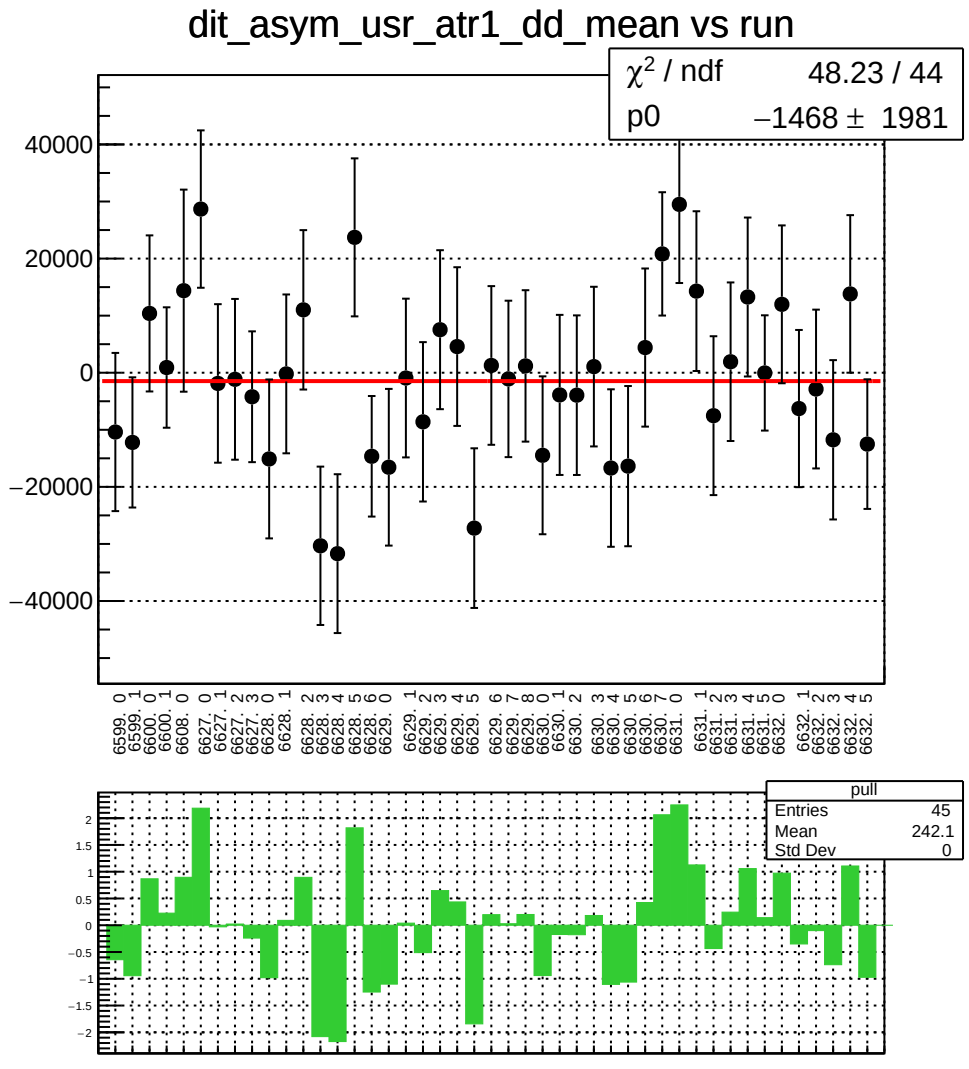

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 7392 / 44
p0 449.4 ± 0.4804
600
550
500
450
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

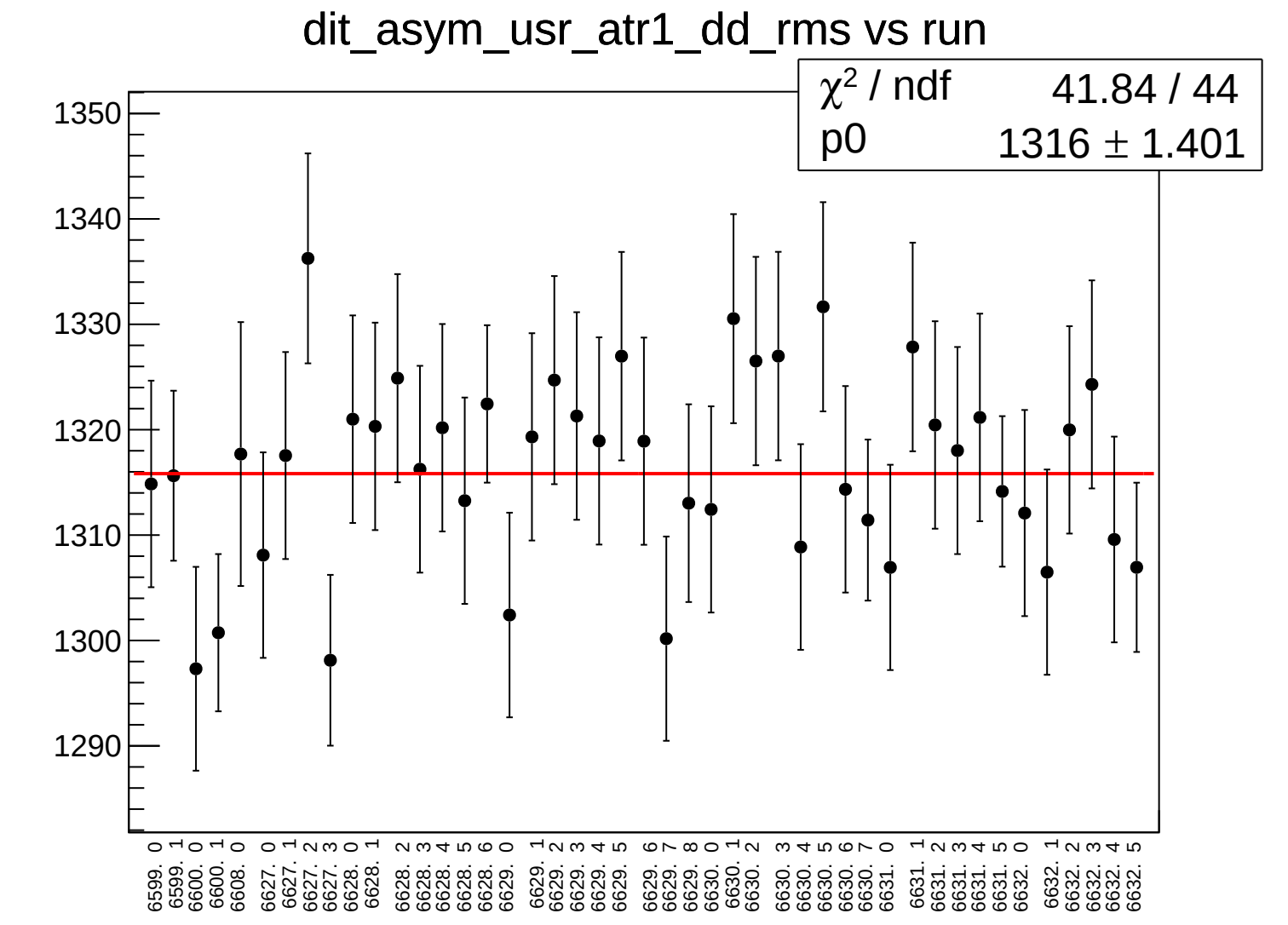

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 48.17 / 44
p0 −1468 ± 1980
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 249.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.00612
Std Dev 1.035
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

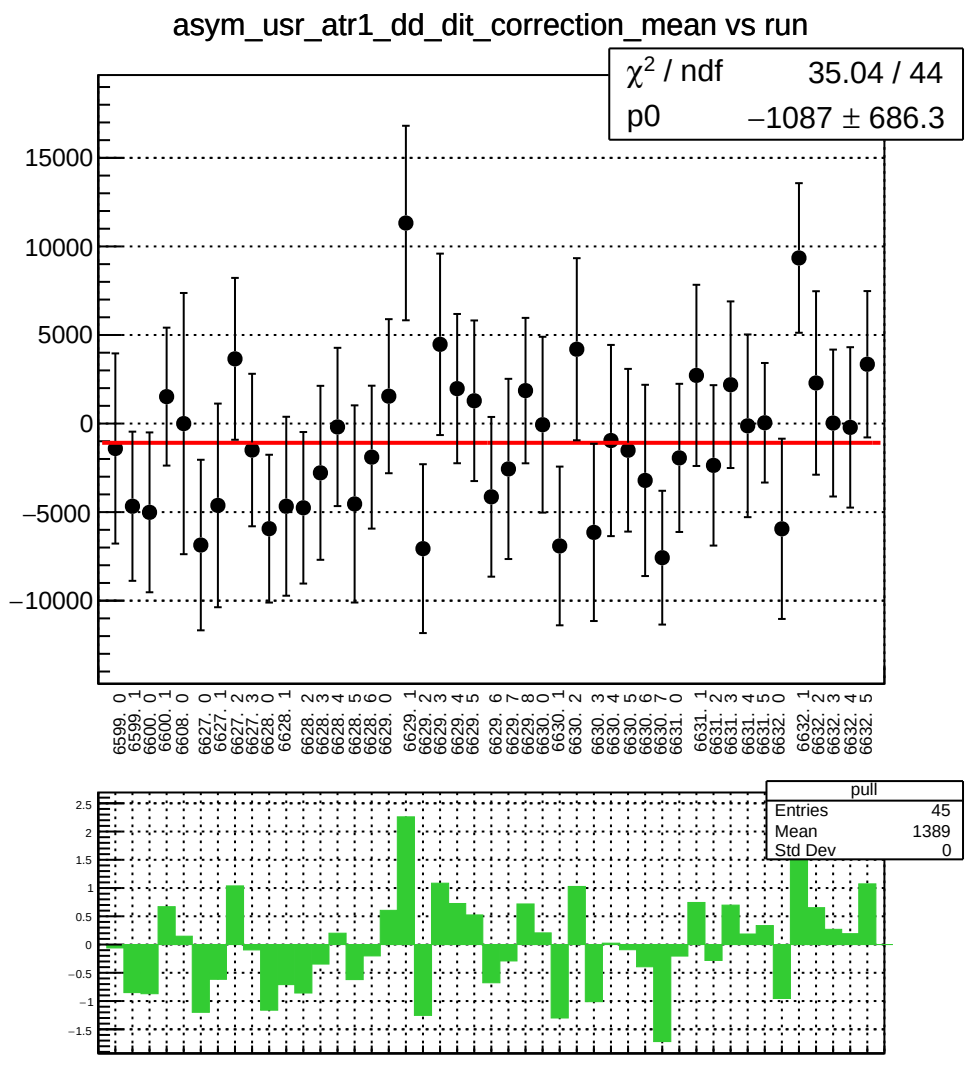

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 42.23 / 44
p0 1315 ± 1.4
1350
1340
1330
1320
1310
1300
1290
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

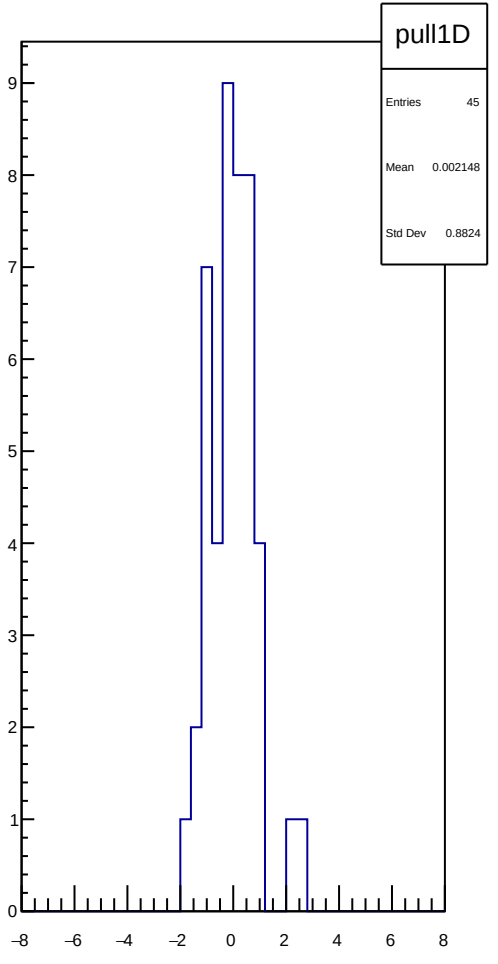

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 36.49 / 44
p0 −1056 ± 679.4
pull
Entries 45
Mean −1537
Std Dev 0
pull1D
Entries 45
Mean −0.001951
Std Dev 0.9004

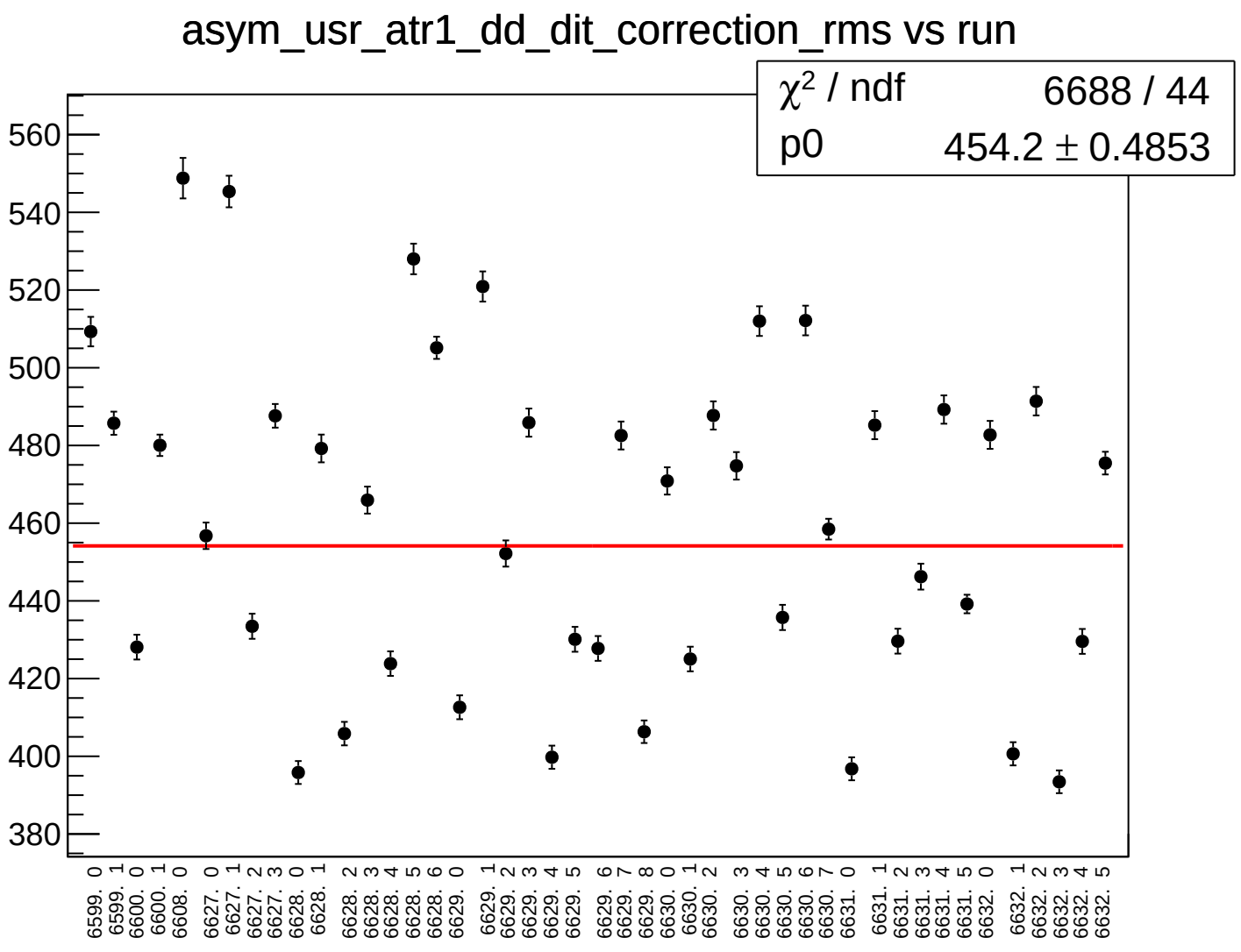

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 7392 / 44
p0 449.4 ± 0.4804
600
550
500
450
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

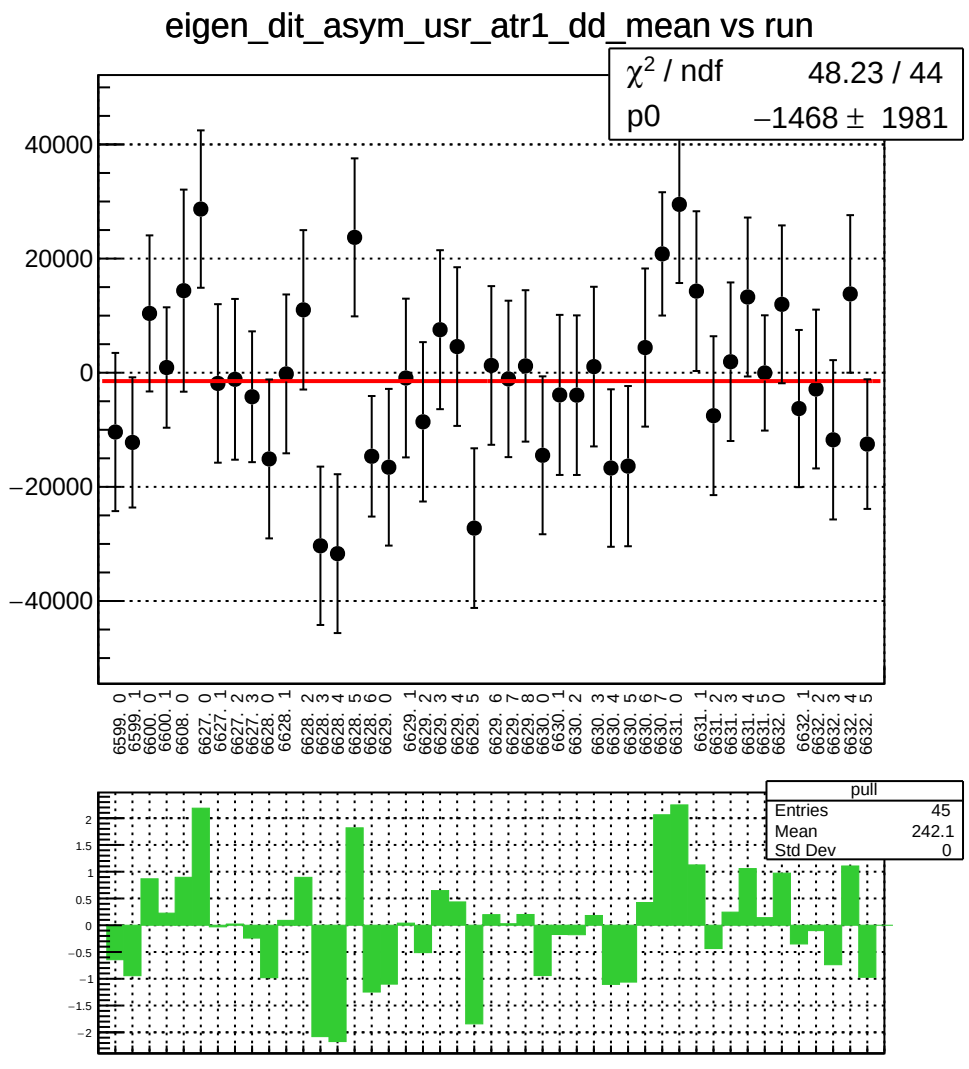

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 48.23 / 44
p0 −1468 ± 1981
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 242.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.006204
Std Dev 1.035
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

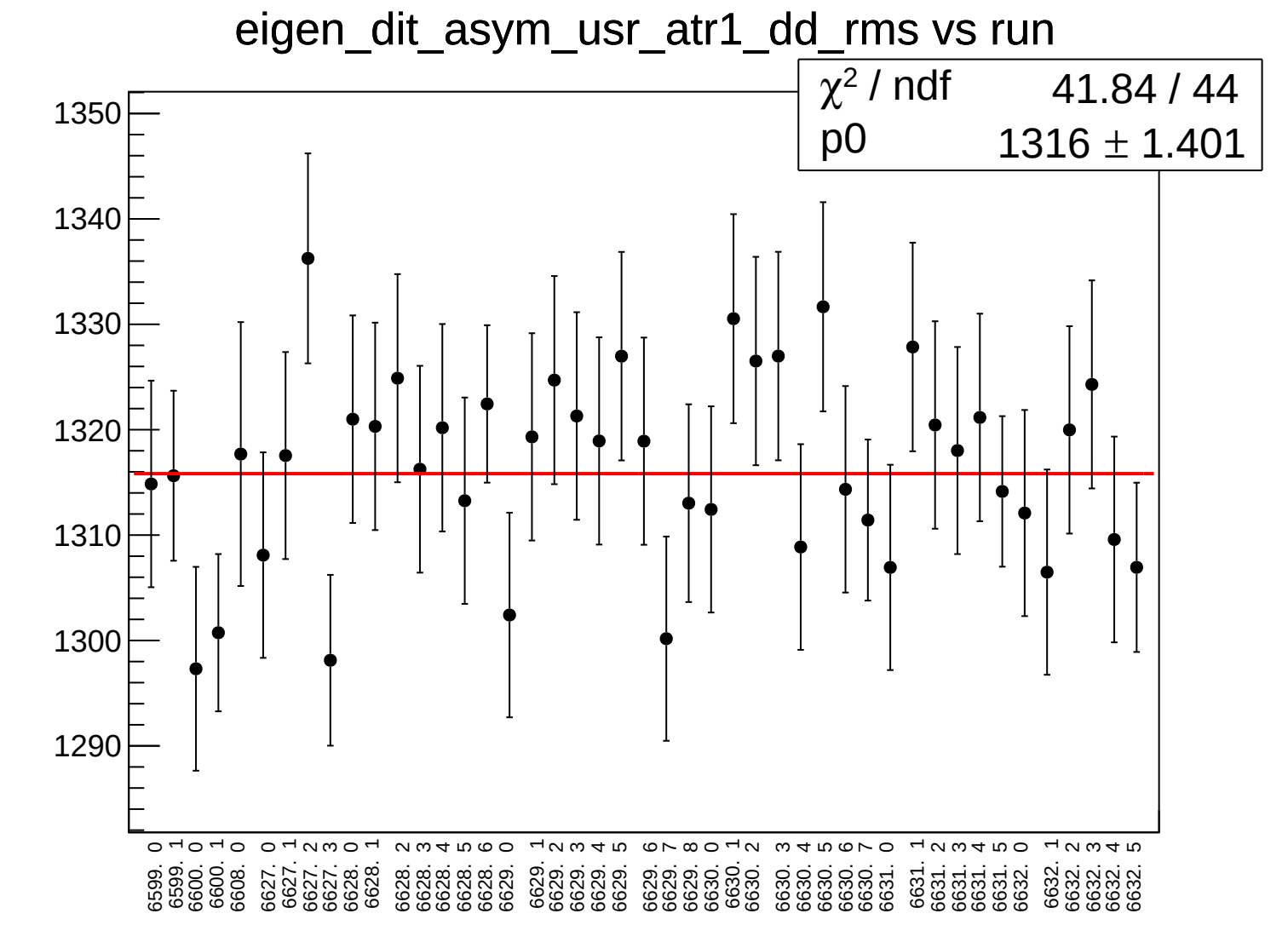

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 41.84 / 44
p0 1316 ± 1.401
1350
1340
1330
1320
1310
1300
1290
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

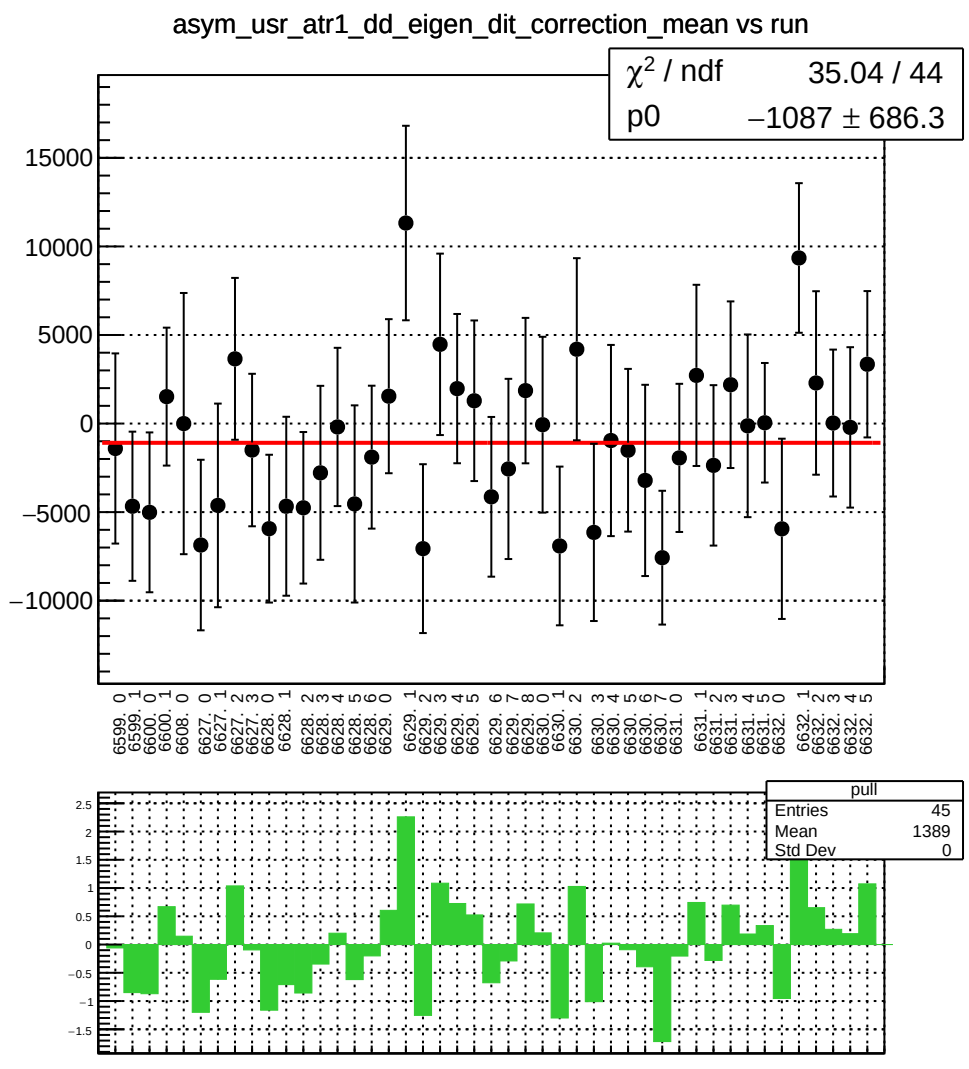

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 35.04 / 44
p0 −1087 ± 686.3
15000
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 1389
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.002148
Std Dev 0.8824
9
8
7
6
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 6688 / 44
p0 454.2 ± 0.4853
560
540
520
500
480
460
440
420
400
380
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 48.23 / 44
p0 −1468 ± 1981
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 242.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.006204
Std Dev 1.035
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 41.84 / 44
p0 1316 ± 1.401
1350
1340
1330
1320
1310
1300
1290
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 35.04 / 44
p0 −1087 ± 686.3
15000
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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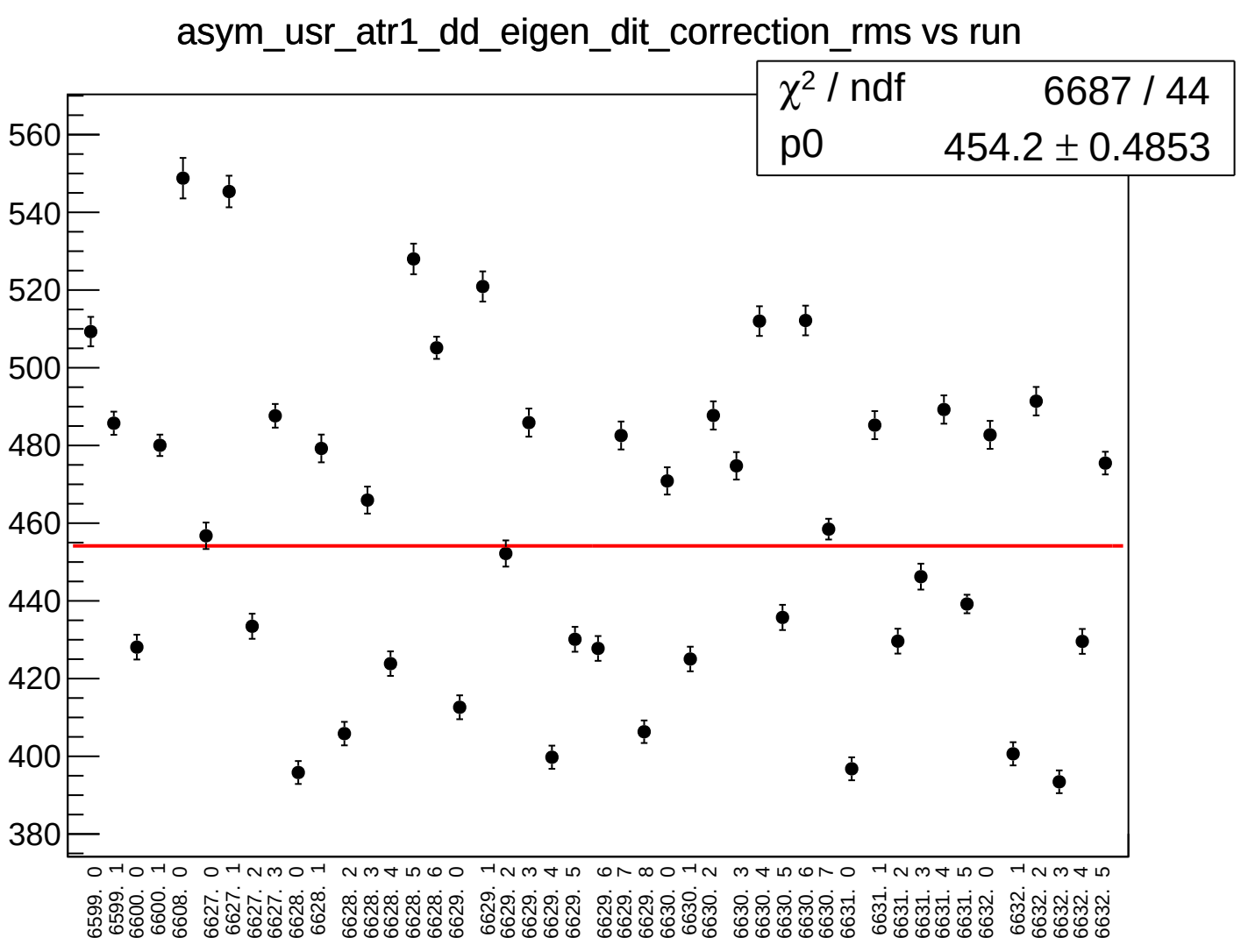
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 1389
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.002149
Std Dev 0.8824
9
8
7
6
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 6687 / 44
p0 454.2 ± 0.4853
560
540
520
500
480
460
440
420
400
380
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
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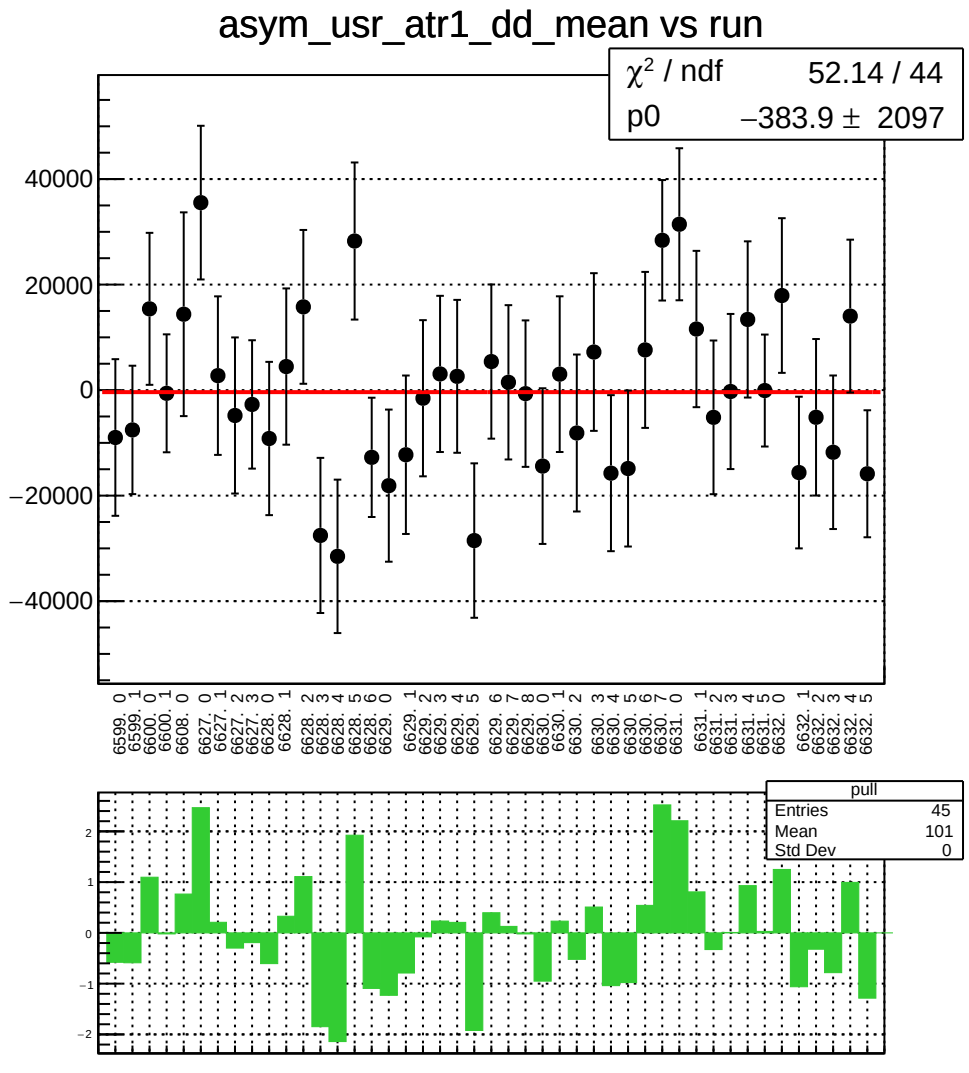
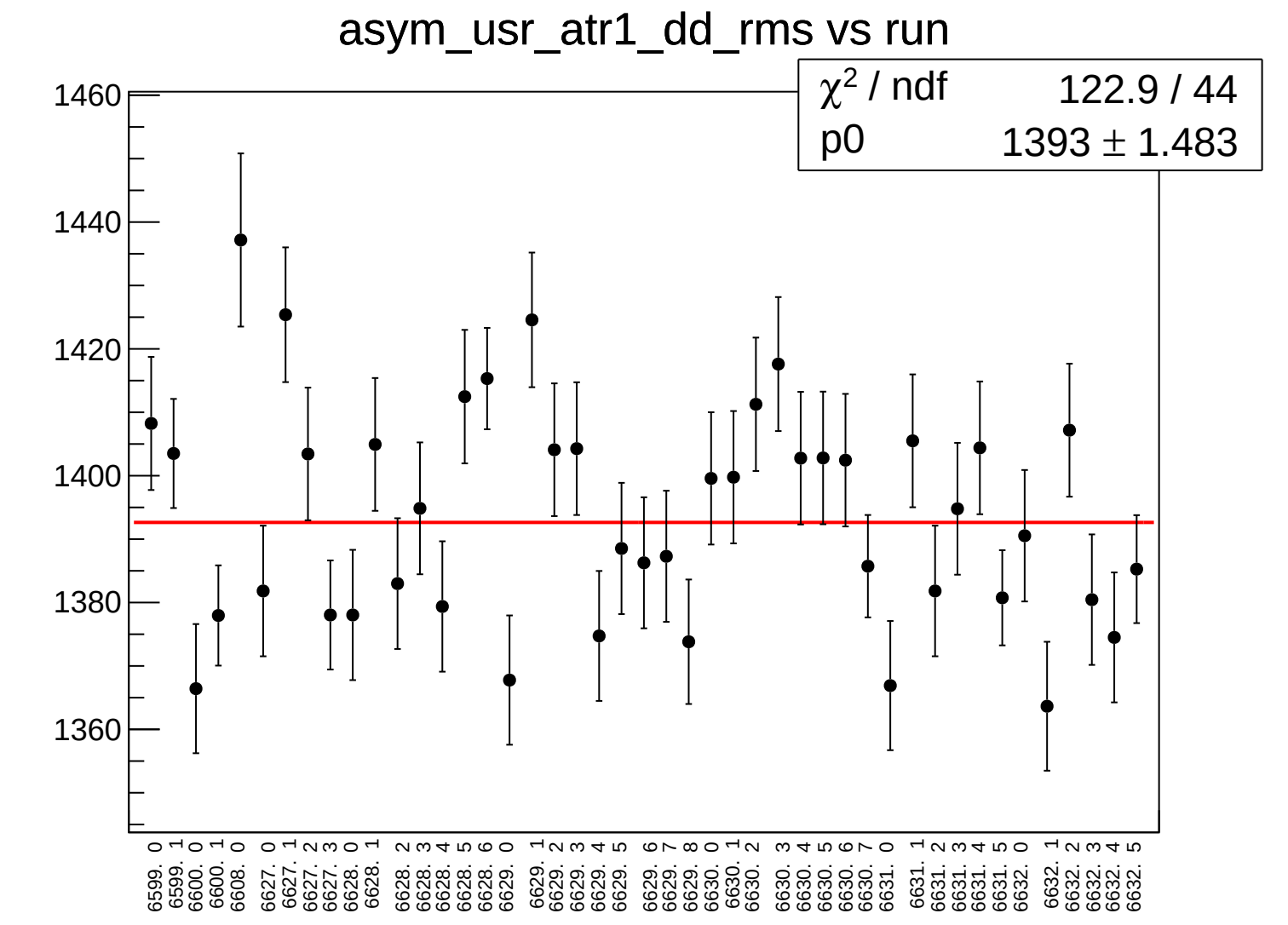
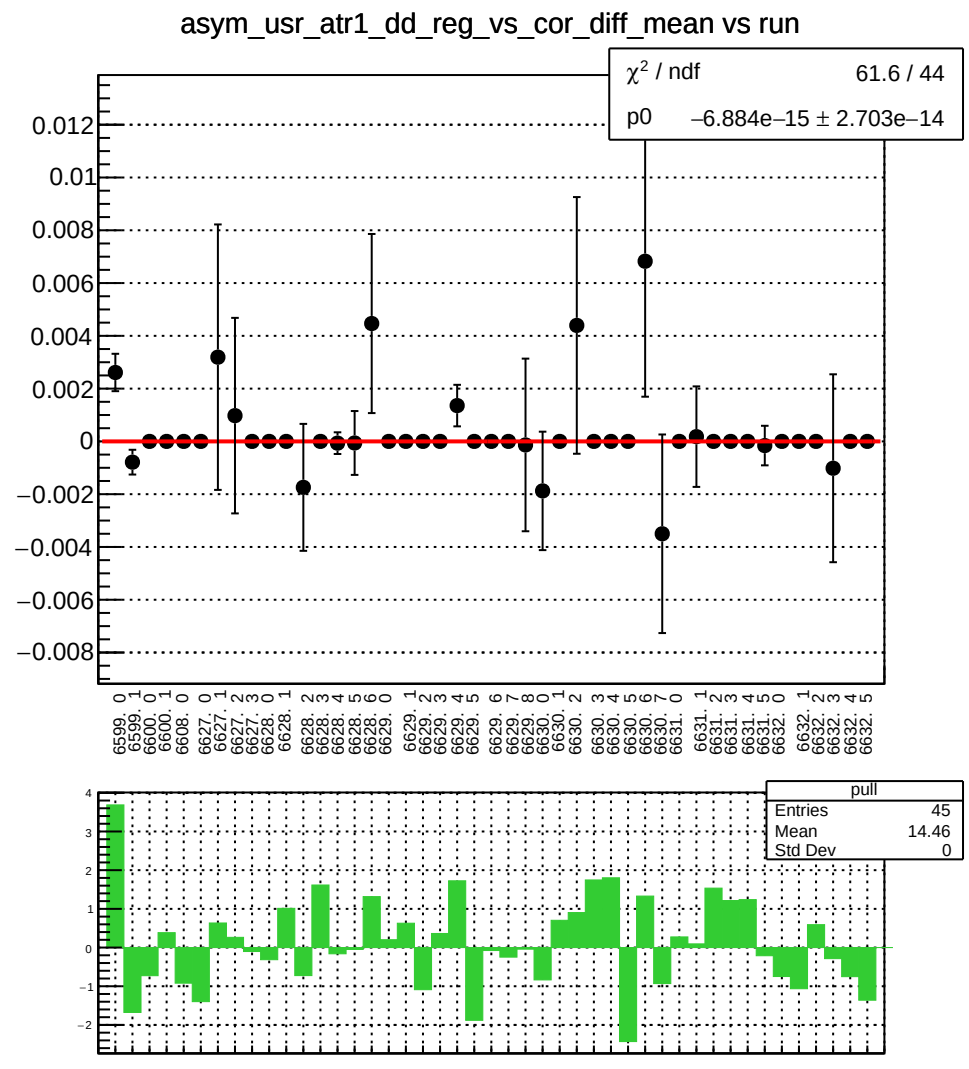
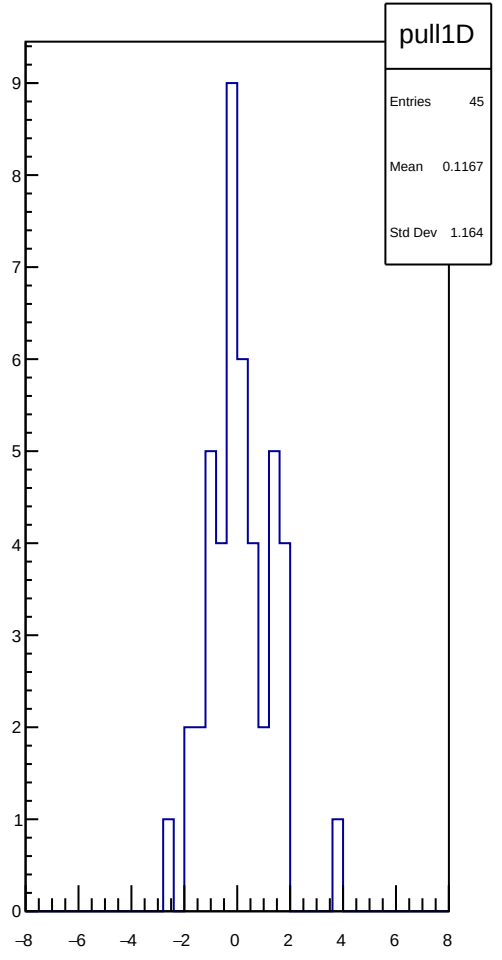
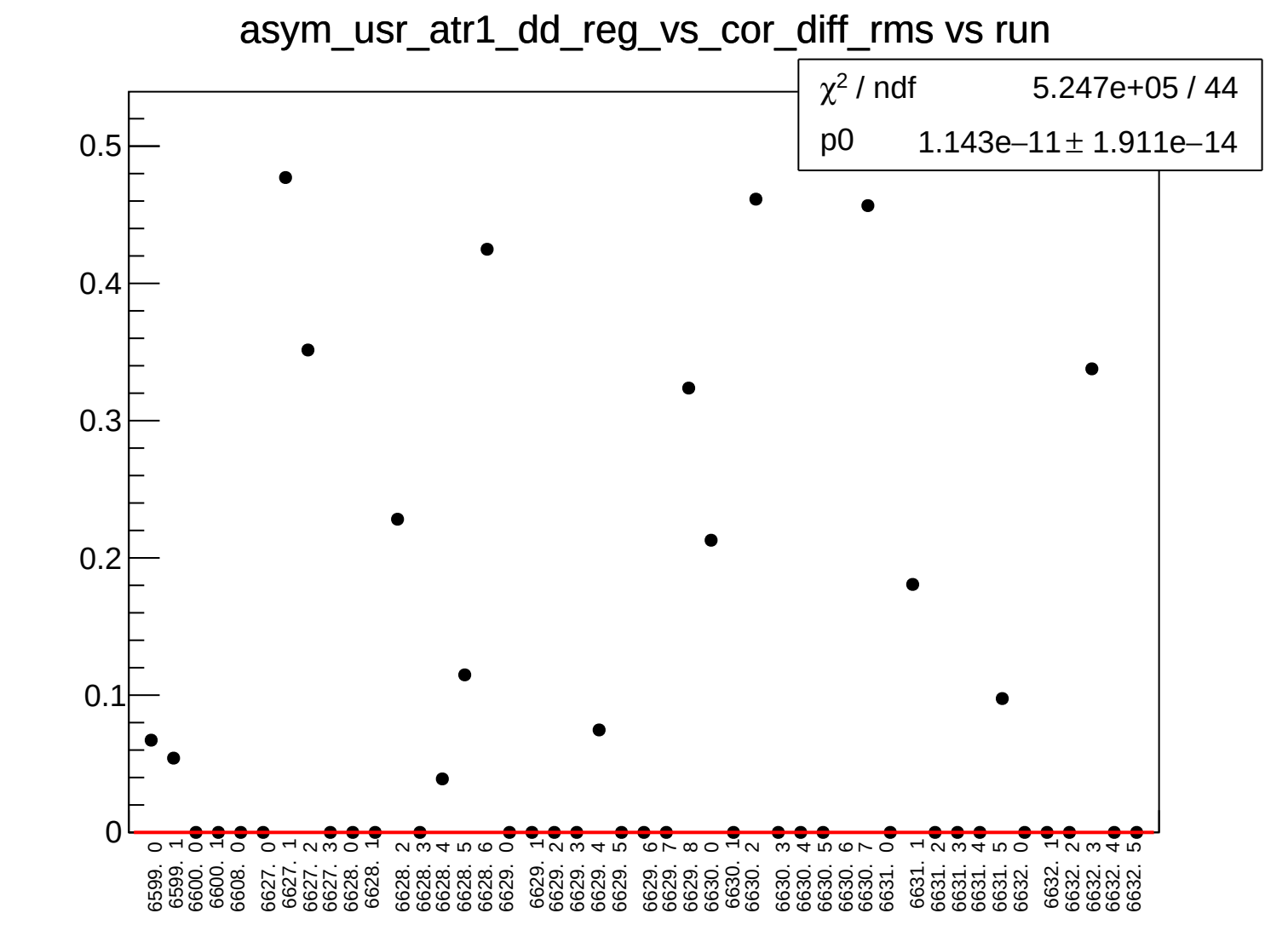
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

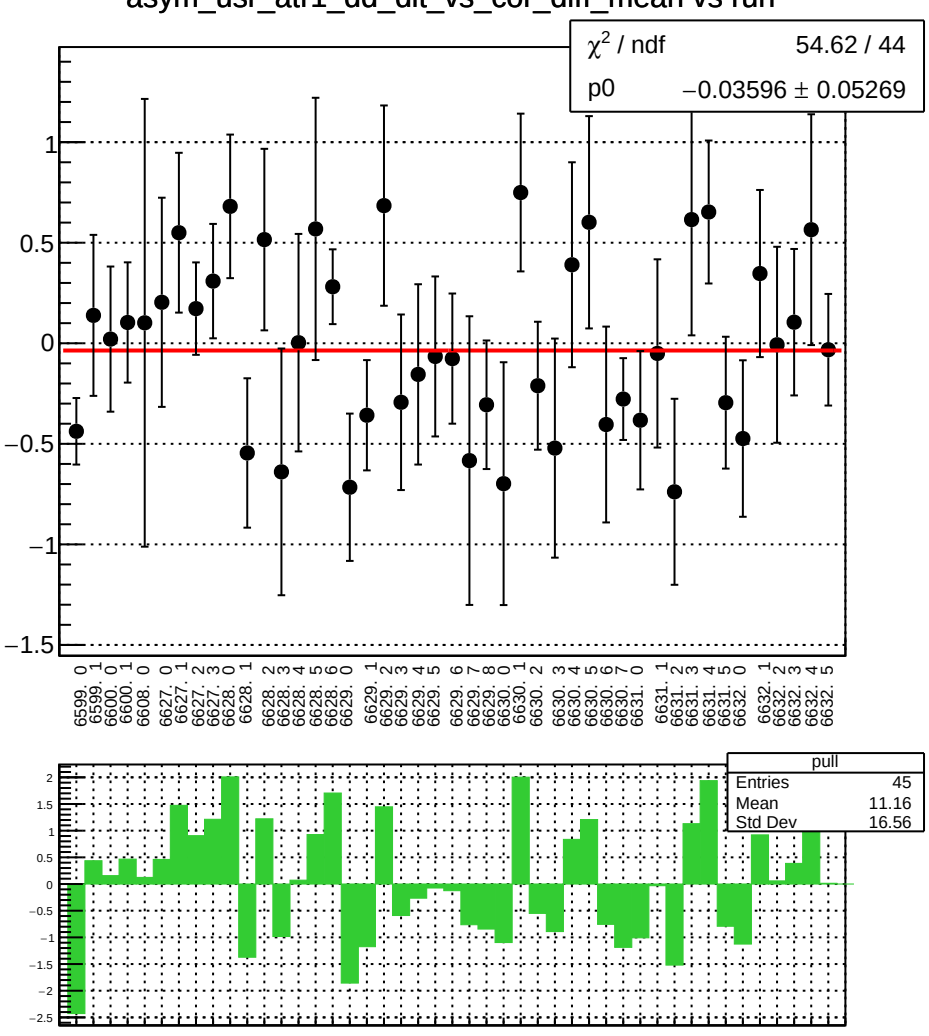

asym_usr_atr1_dd_mean vs run
χ² / ndf 52.14 / 44
p0 −383.9 ± 2097
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 101
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.004733
Std Dev 1.076
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

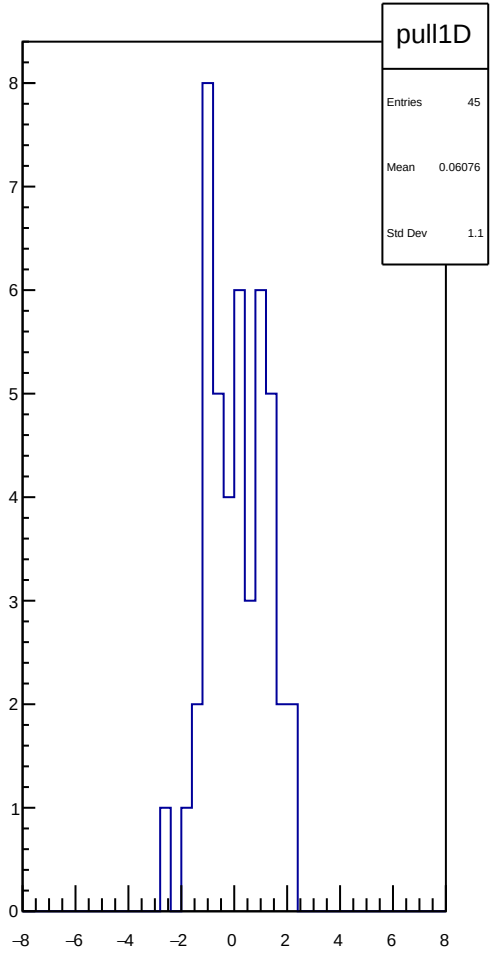

asym_usr_atr1_dd_rms vs run
χ² / ndf 122.9 / 44
p0 1393 ± 1.483
1460
1440
1420
1400
1380
1360
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

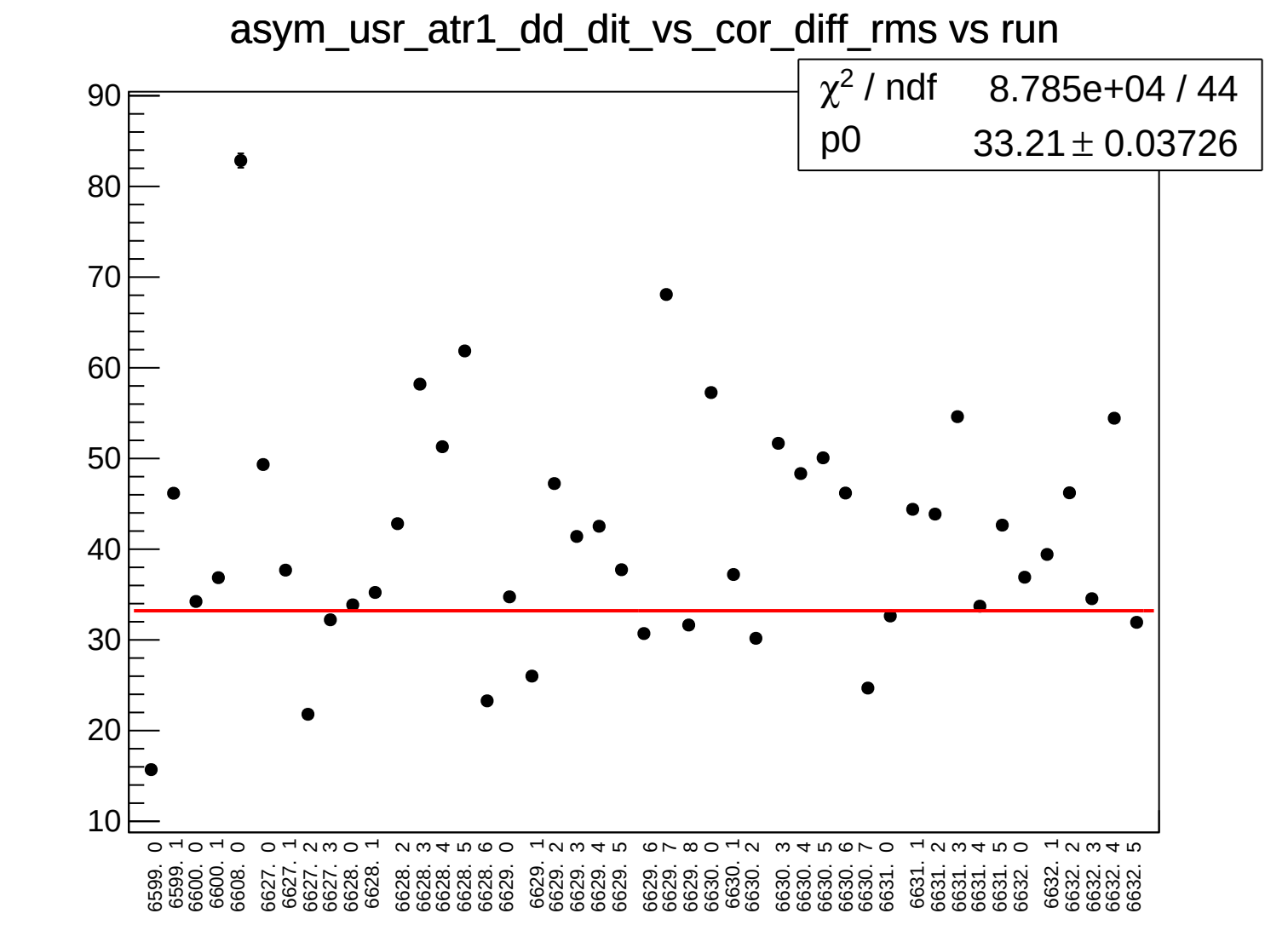

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 61.6 / 44
p0 −6.884e−15 ± 2.703e−14
0.012
0.01
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 14.46
Std Dev 0
4
3
2
1
0
−1
−2

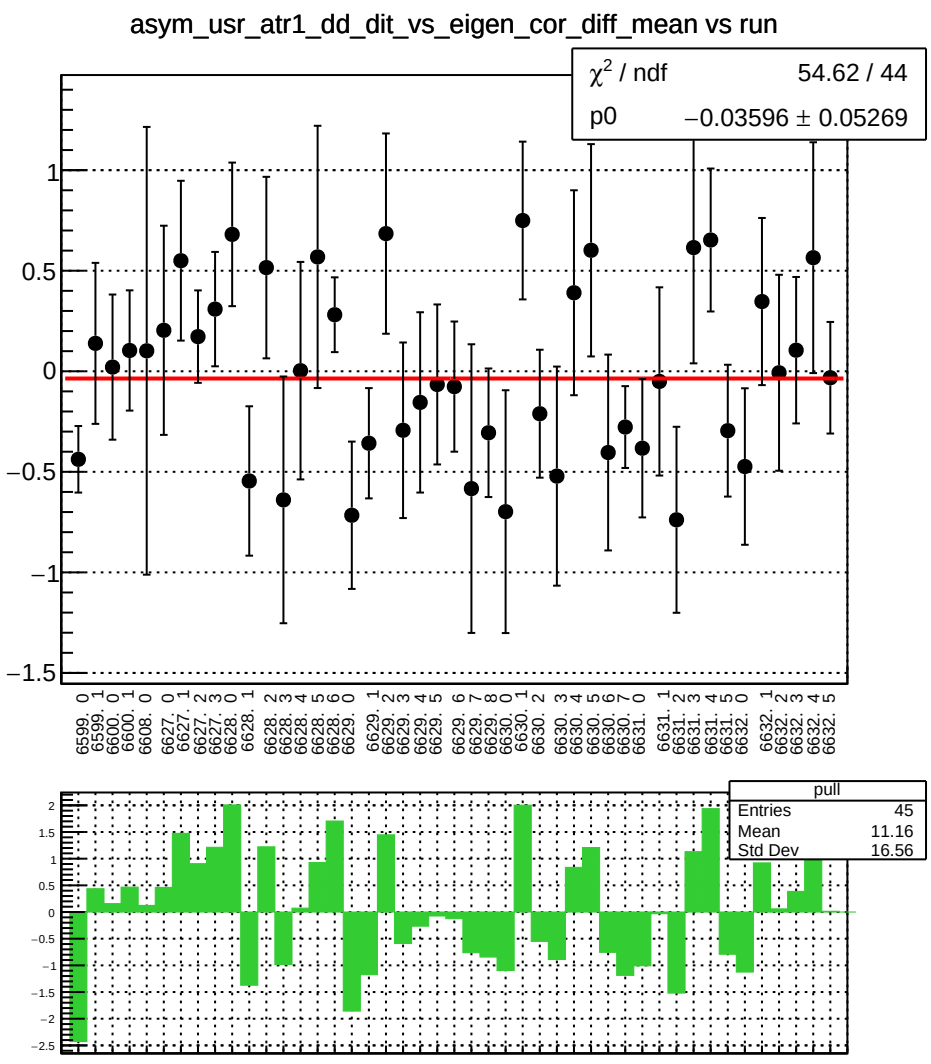

pull1D
Entries 45
Mean 0.1167
Std Dev 1.164
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

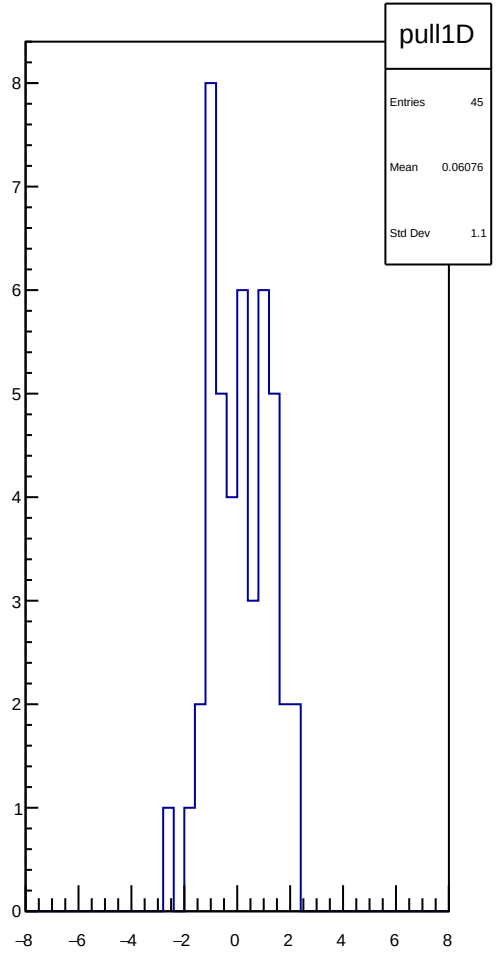

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.247e+05 / 44
p0 1.143e−11 ± 1.911e−14
0.5
0.4
0.3
0.2
0.1
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

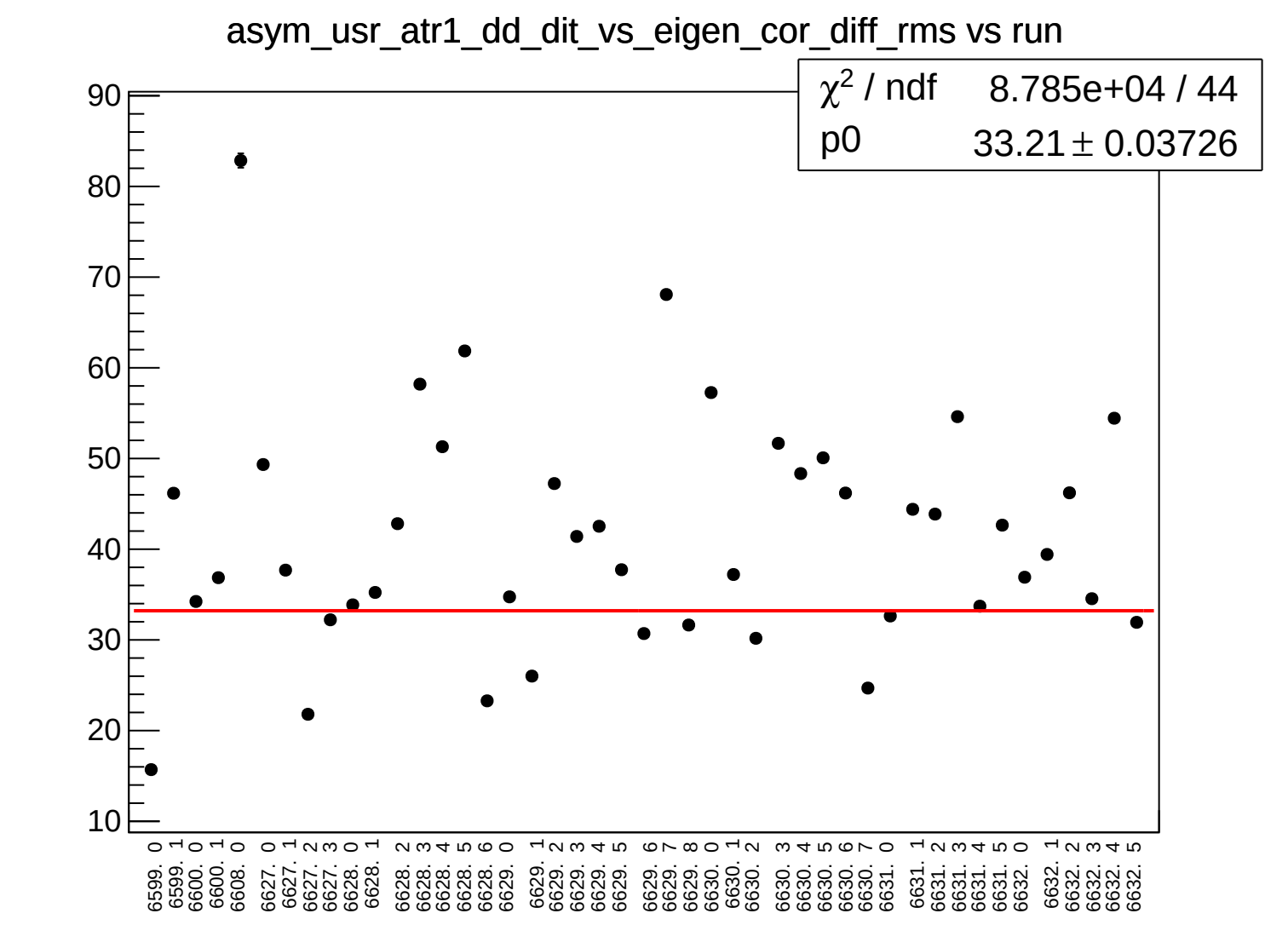

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 54.62 / 44
p0 −0.03596 ± 0.05269
pull
Entries 45
Mean 11.16
Std Dev 16.56

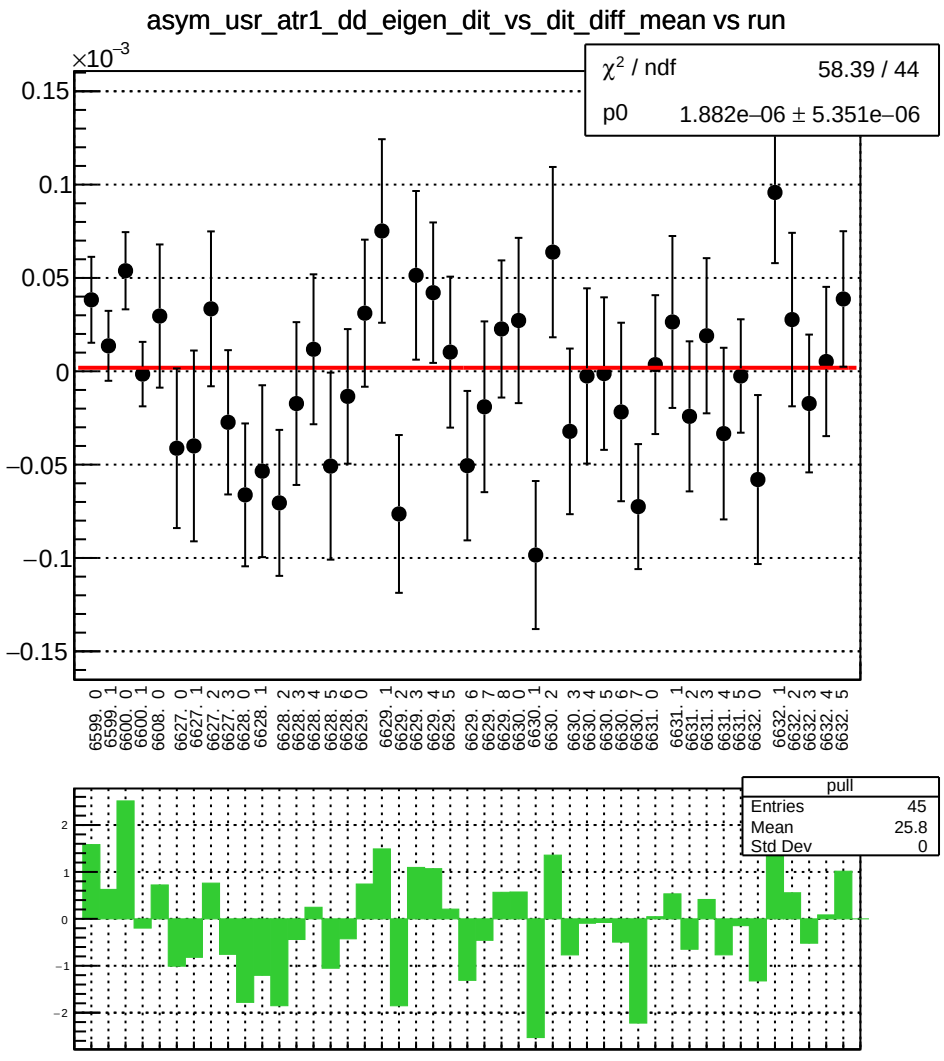

pull1D
Entries 45
Mean 0.06076
Std Dev 1.1

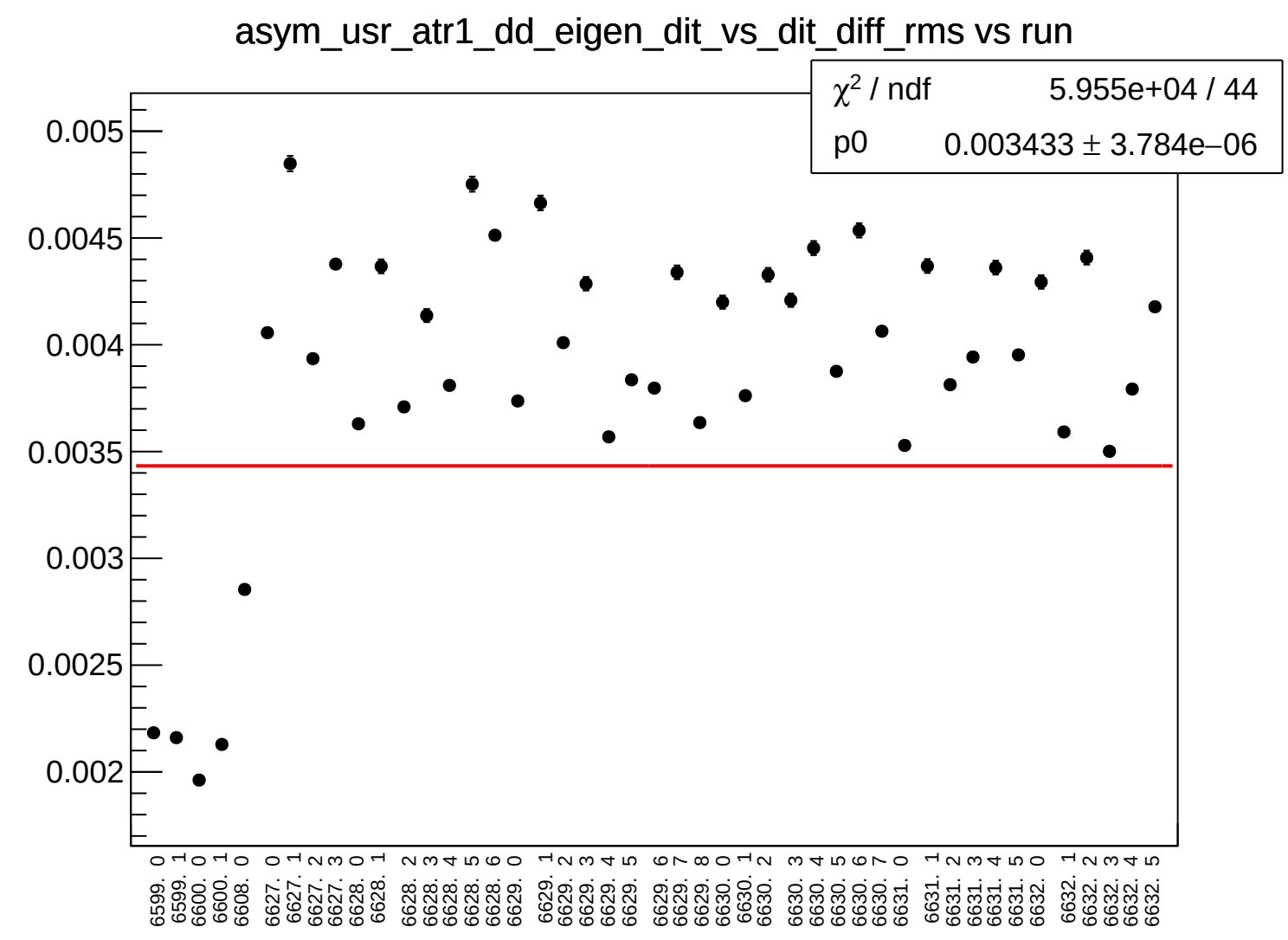

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.785e+04 / 44
p0 33.21 ± 0.03726
90
80
70
60
50
40
30
20
10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

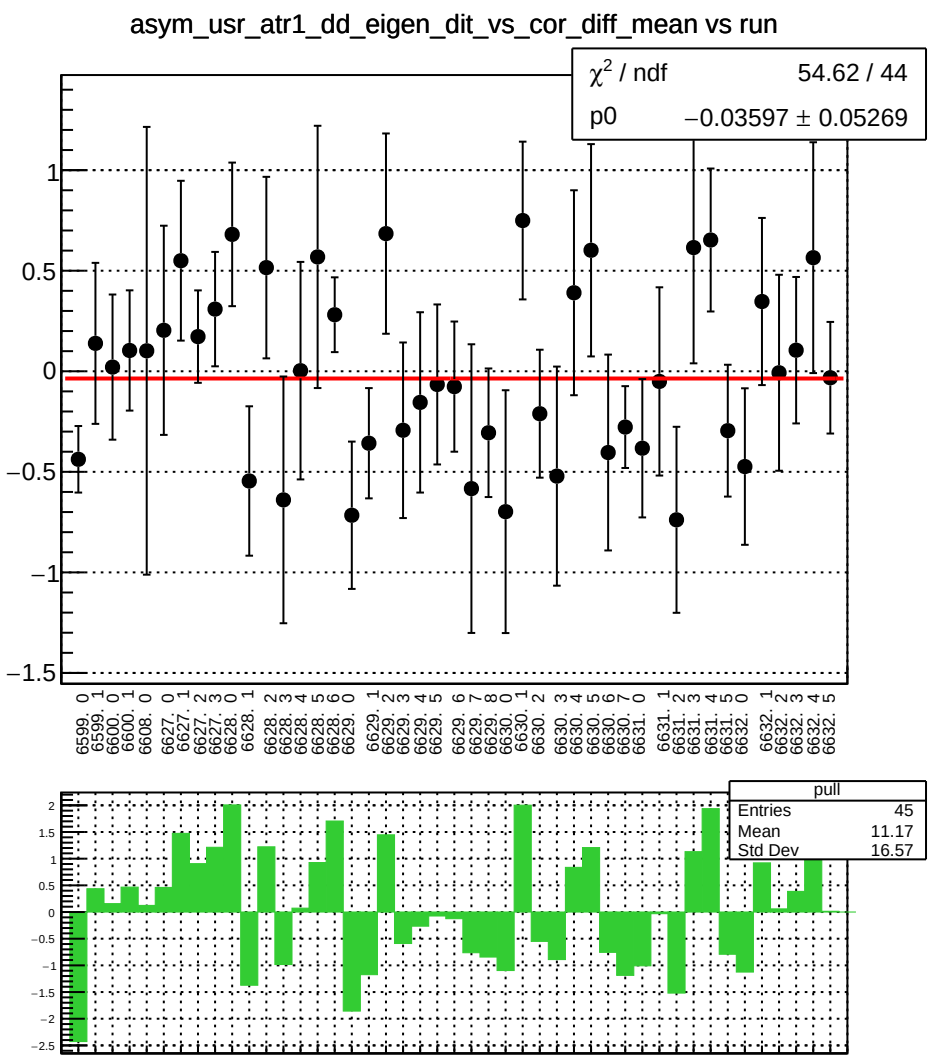

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 54.62 / 44
p0 −0.03596 ± 0.05269
pull
Entries 45
Mean 11.16
Std Dev 16.56

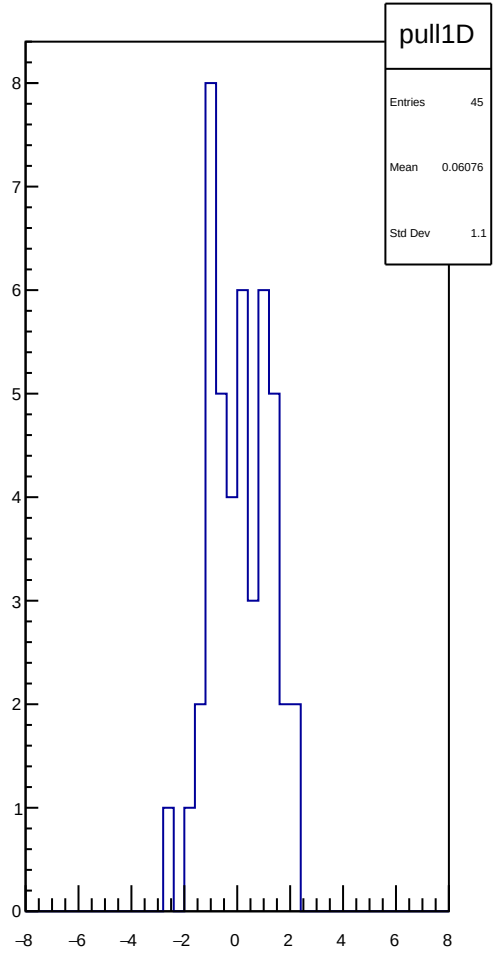

pull1D
Entries 45
Mean 0.06076
Std Dev 1.1

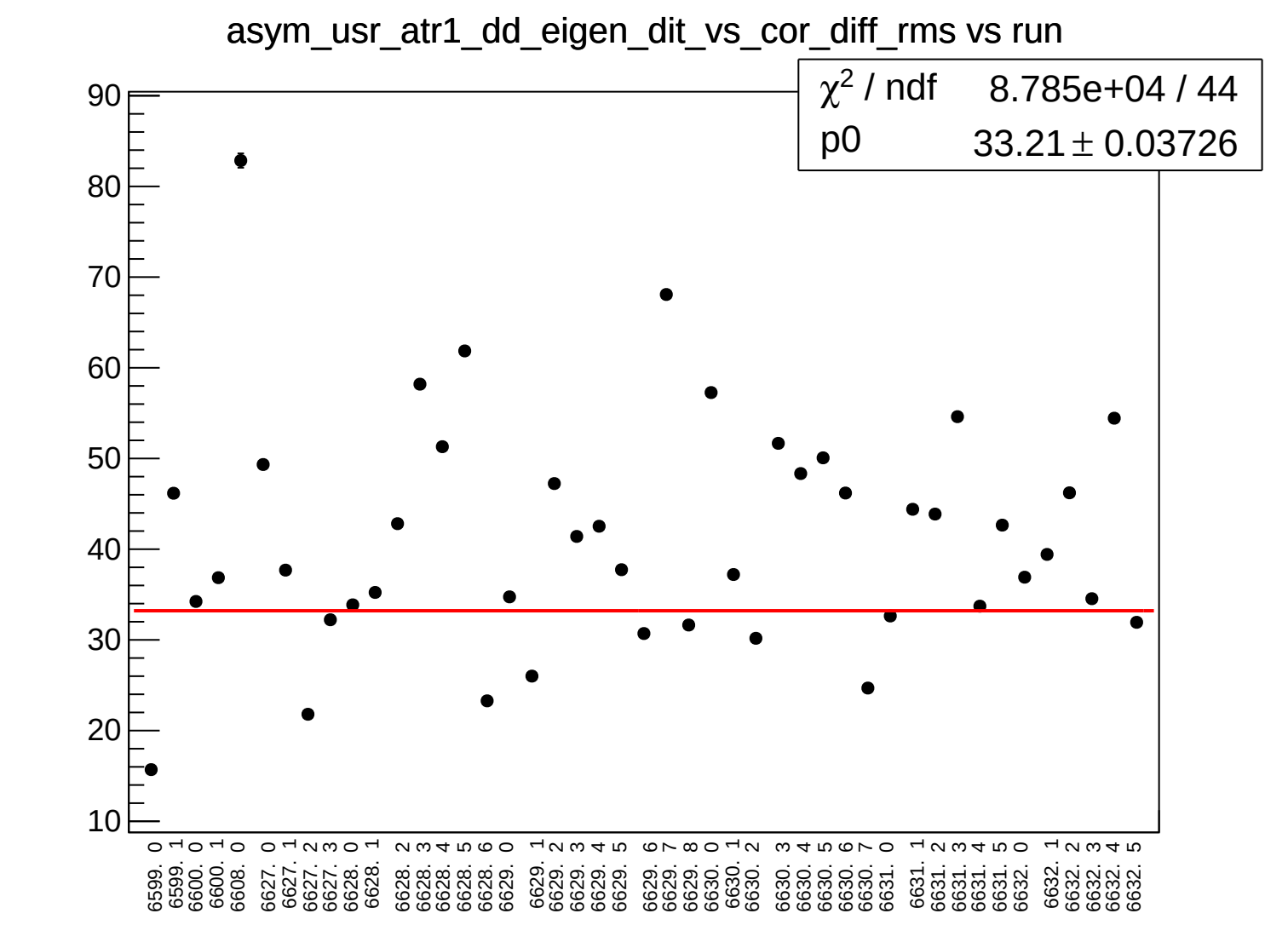

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.785e+04 / 44
p0 33.21 ± 0.03726
90
80
70
60
50
40
30
20
10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

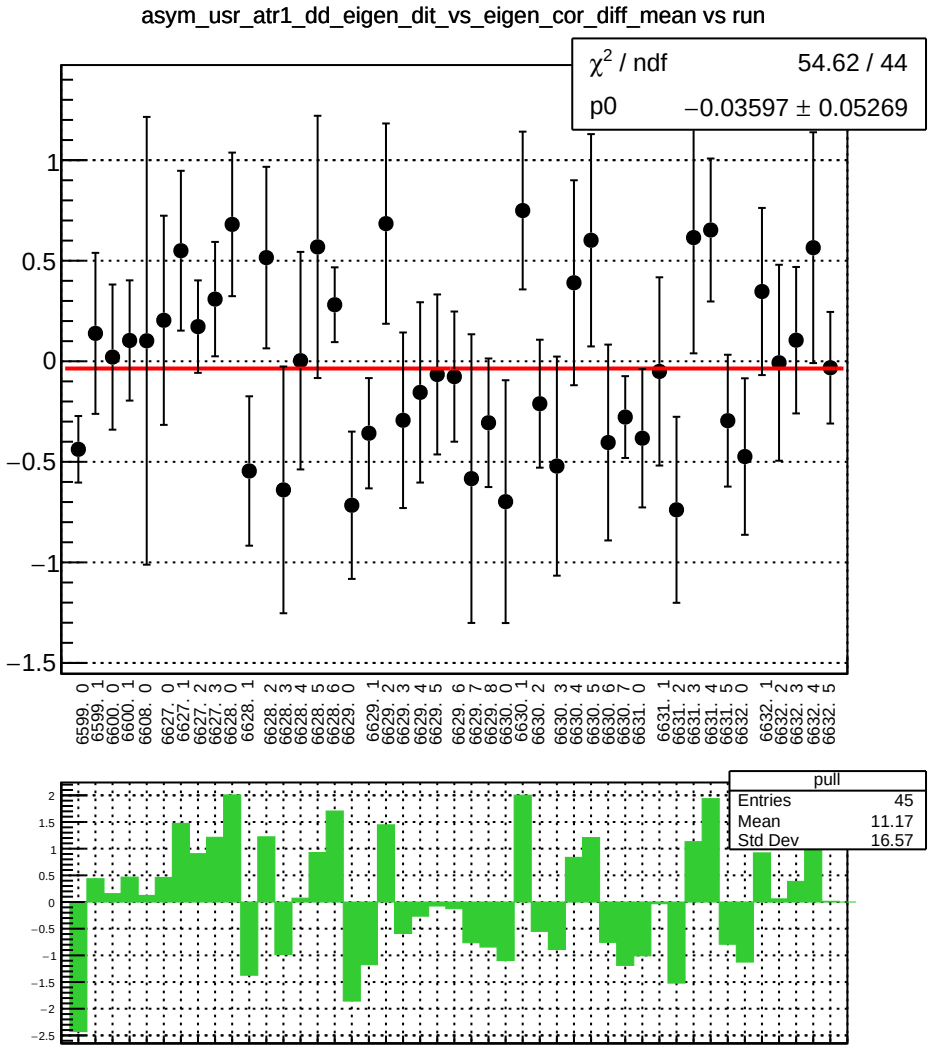

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 58.39 / 44
p0 1.882e−06 ± 5.351e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 25.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.09006
Std Dev 1.136
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

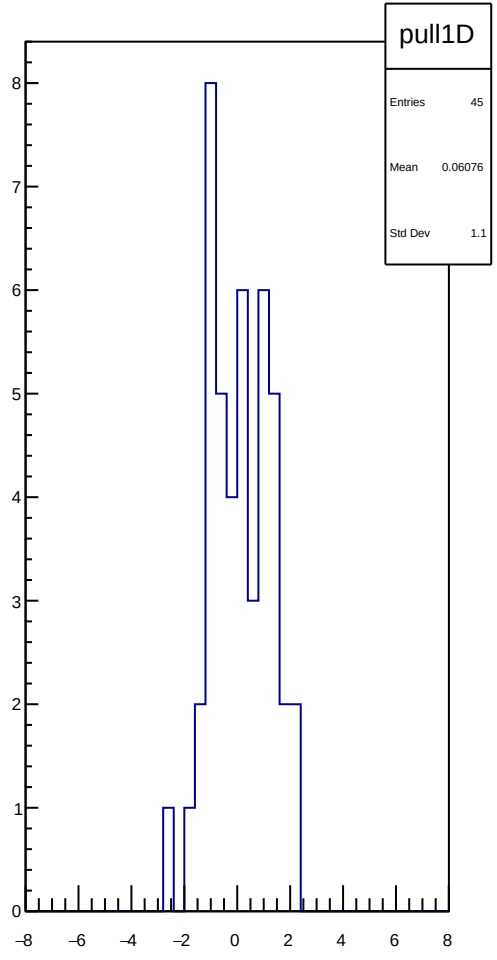

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.955e+04 / 44
p0 0.003433 ± 3.784e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

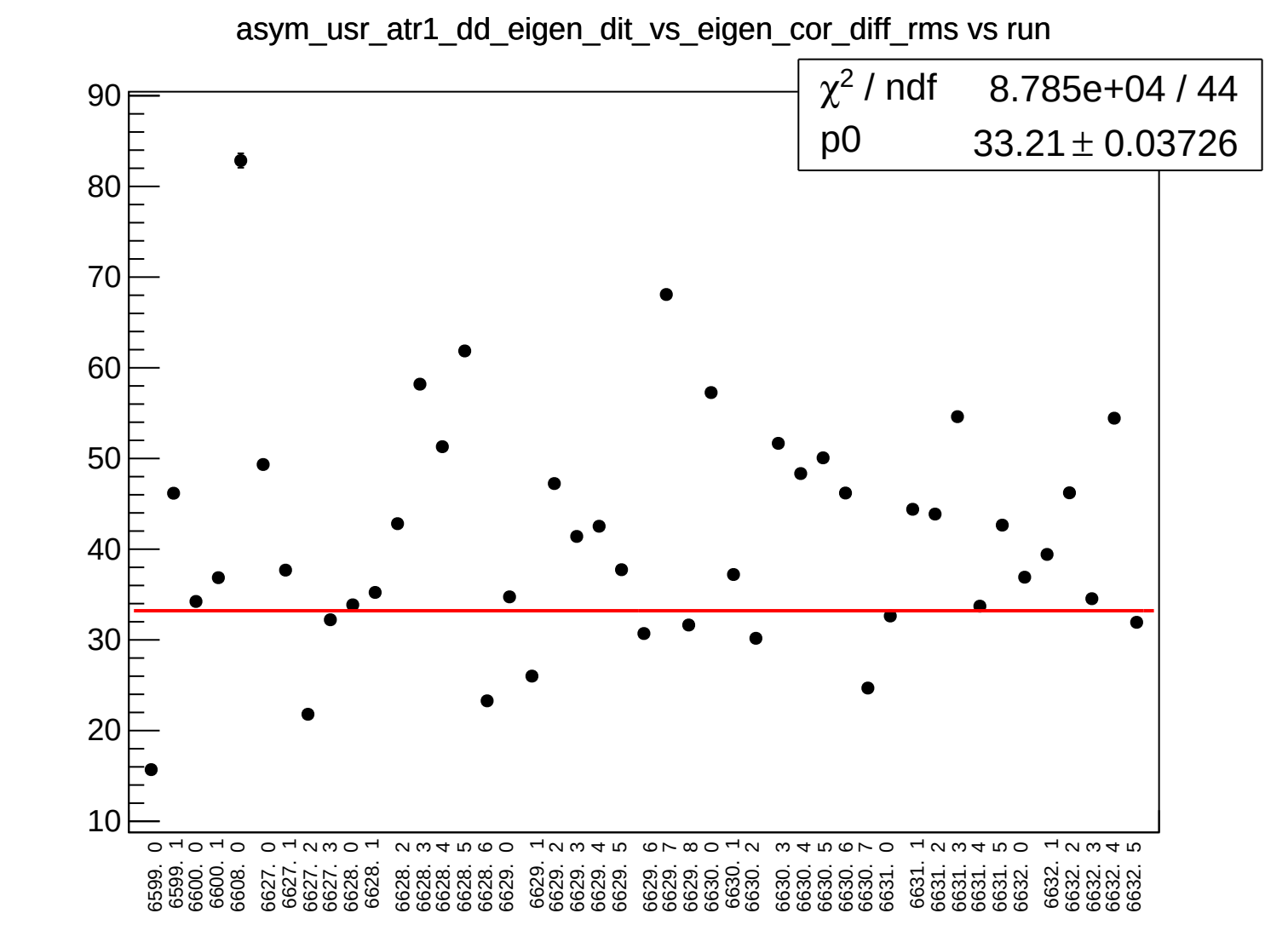

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 54.62 / 44
p0 −0.03597 ± 0.05269
pull
Entries 45
Mean 11.17
Std Dev 16.57

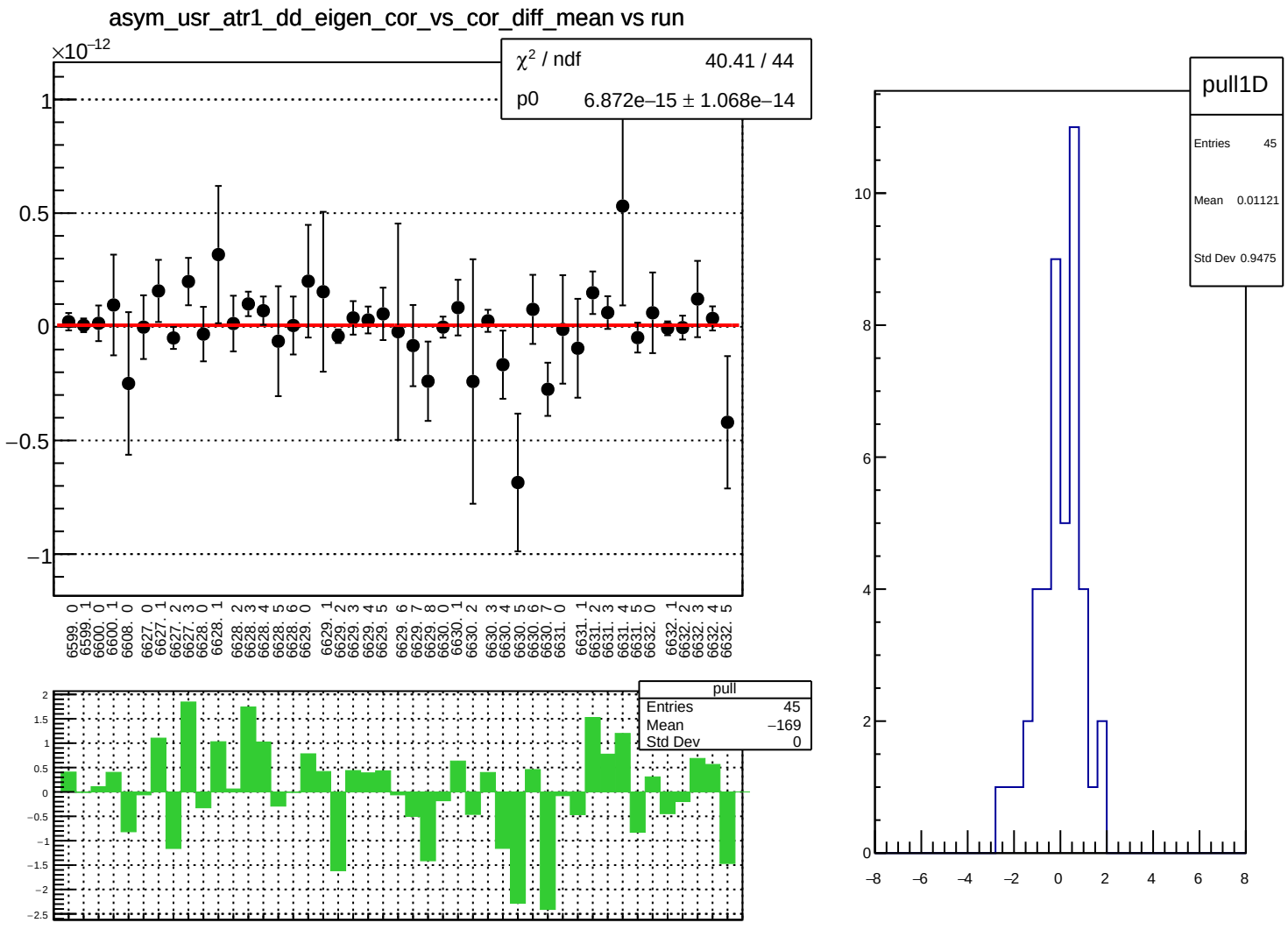

pull1D
Entries 45
Mean 0.06076
Std Dev 1.1

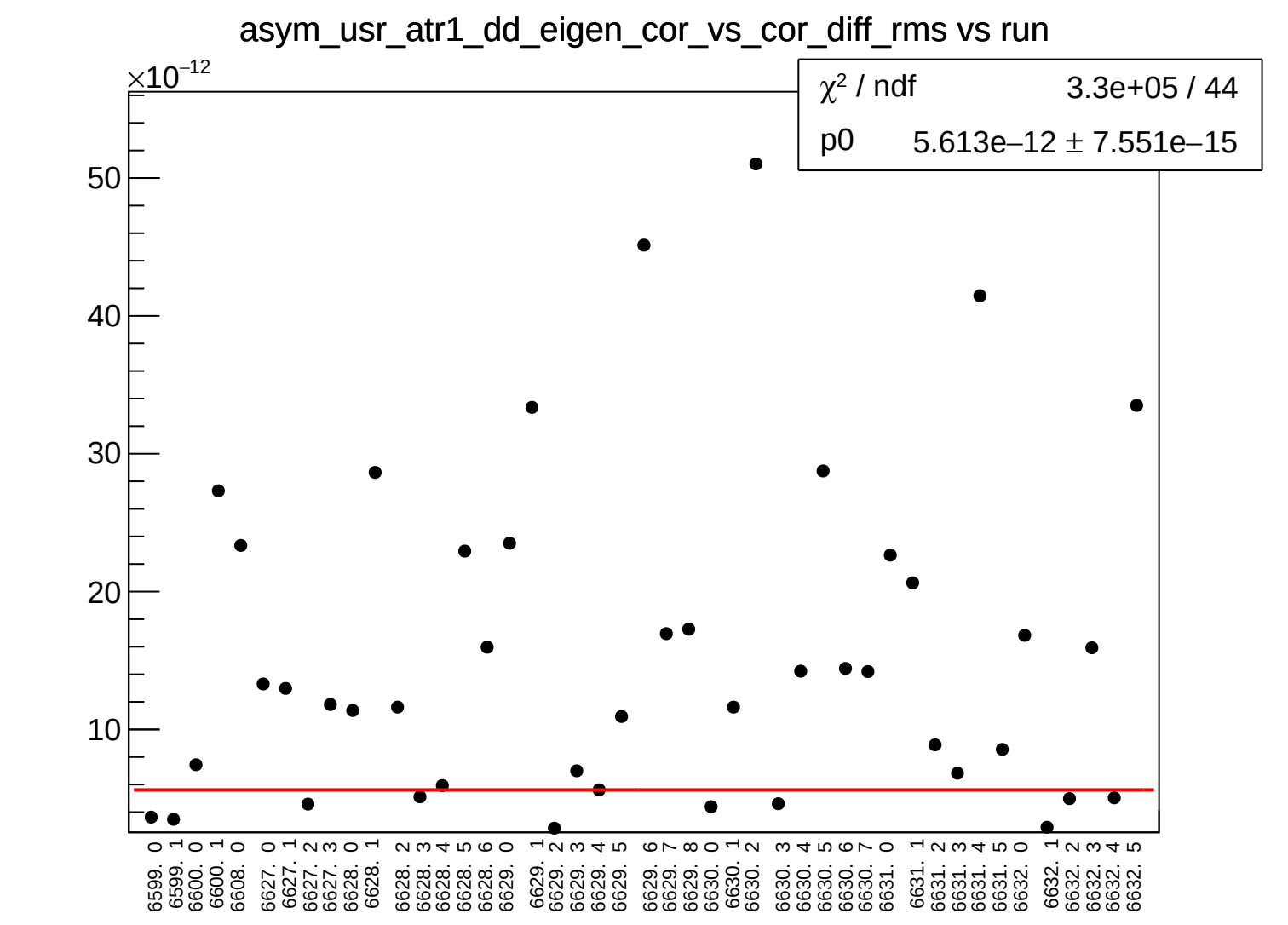

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.785e+04 / 44
p0 33.21 ± 0.03726
90
80
70
60
50
40
30
20
10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

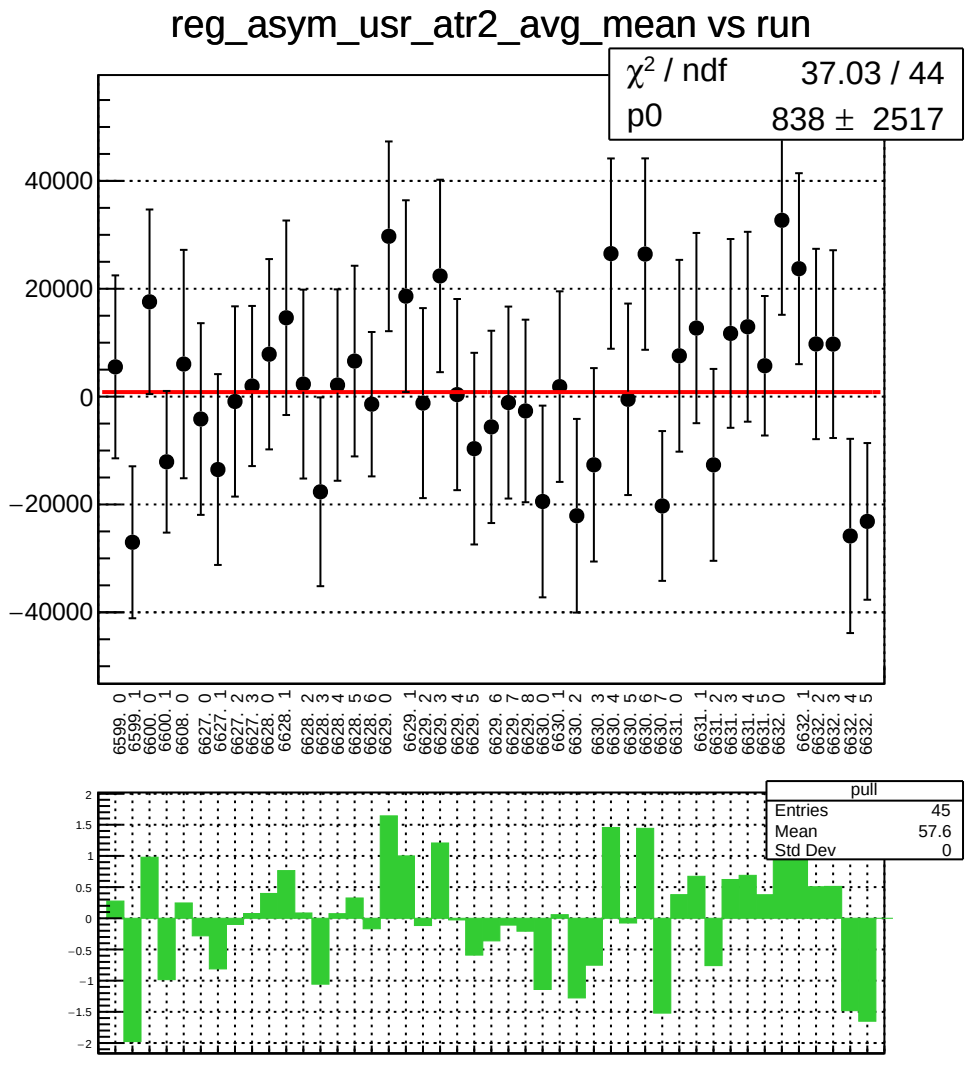

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 54.62 / 44
p0 −0.03597 ± 0.05269
pull
Entries 45
Mean 11.17
Std Dev 16.57

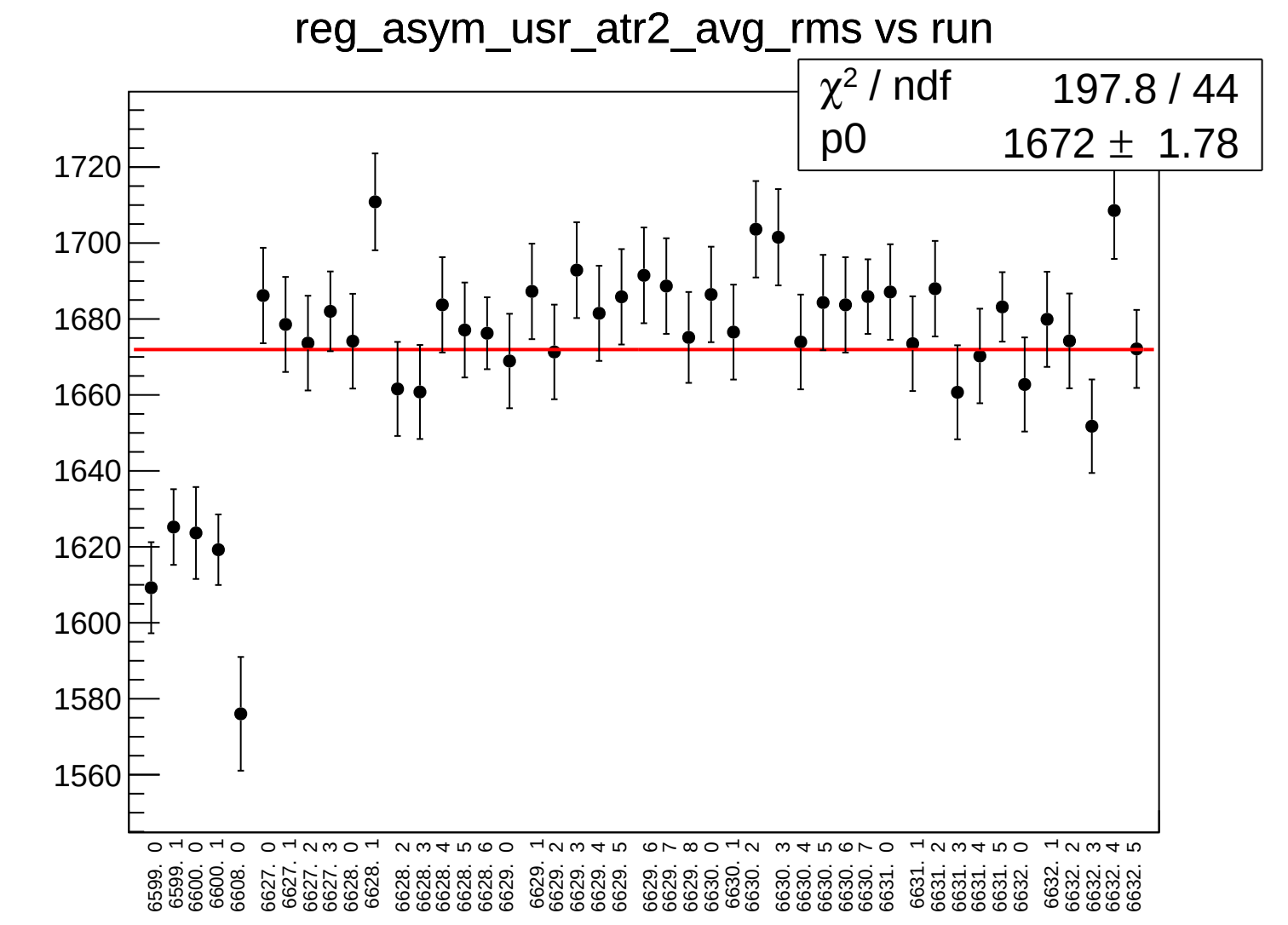

pull1D
Entries 45
Mean 0.06076
Std Dev 1.1

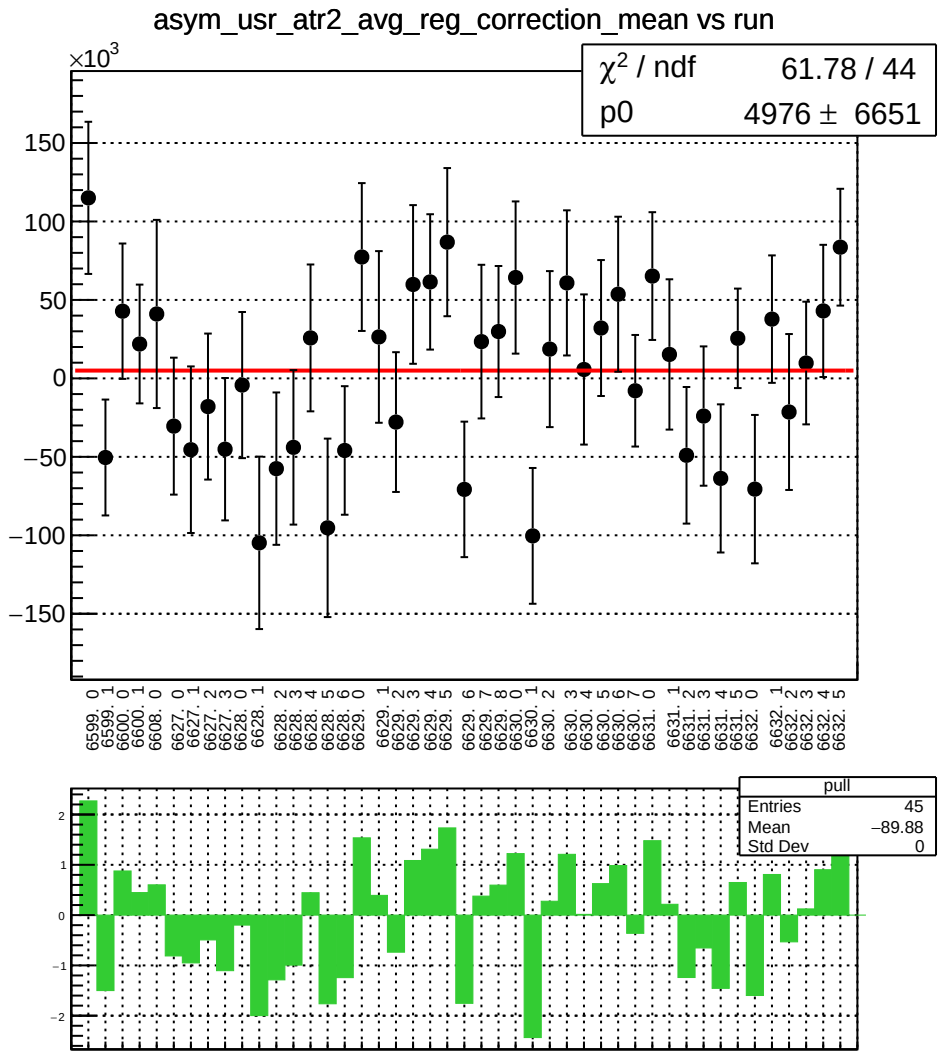

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.785e+04 / 44
p0 33.21 ± 0.03726
90
80
70
60
50
40
30
20
10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 40.41 / 44
p0 6.872e−15 ± 1.068e−14
1
0.5
0
−0.5
−1
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −169
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.01121
Std Dev 0.9475
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.3e+05 / 44
p0 5.613e−12 ± 7.551e−15
50
40
30
20
10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 37.03 / 44
p0 838 ± 2517
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 57.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.03224
Std Dev 0.9065
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 197.8 / 44
p0 1672 ± 1.78
1720
1700
1680
1660
1640
1620
1600
1580
1560
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 61.78 / 44
p0 4976 ± 6651
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
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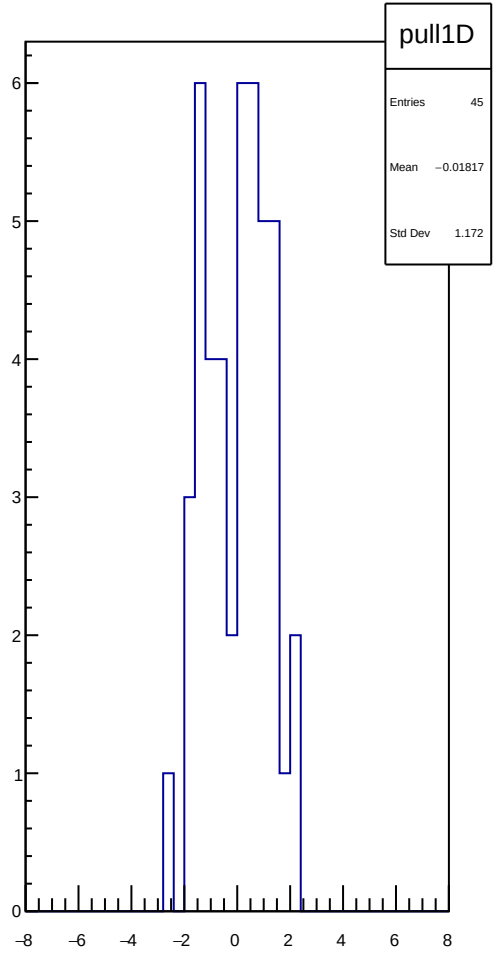
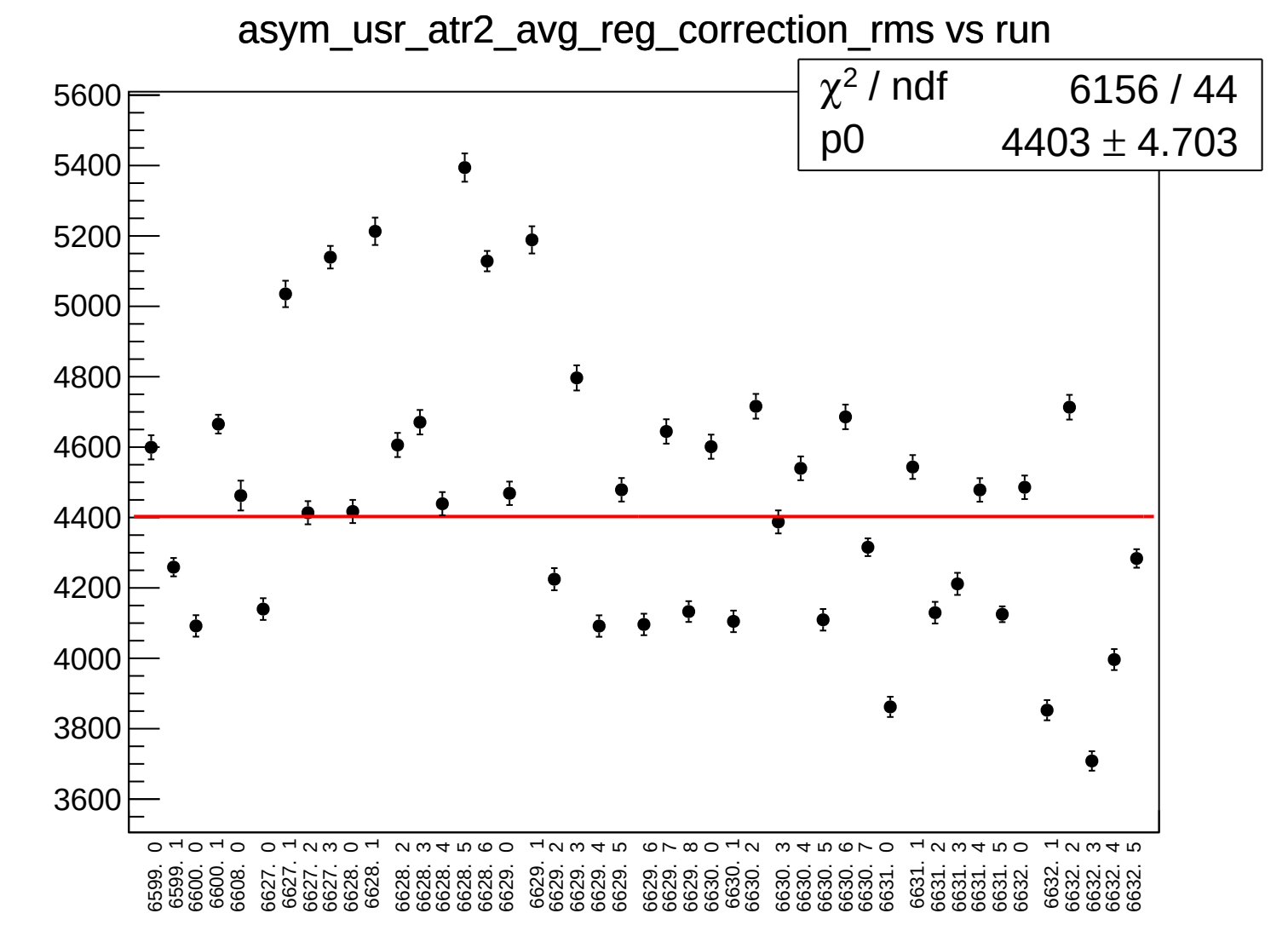
6632. 4
6632. 5
pull
Entries 45
Mean −89.88
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.01817
Std Dev 1.172
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 6156 / 44
p0 4403 ± 4.703
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
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6630. 2
6630. 3
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6630. 5
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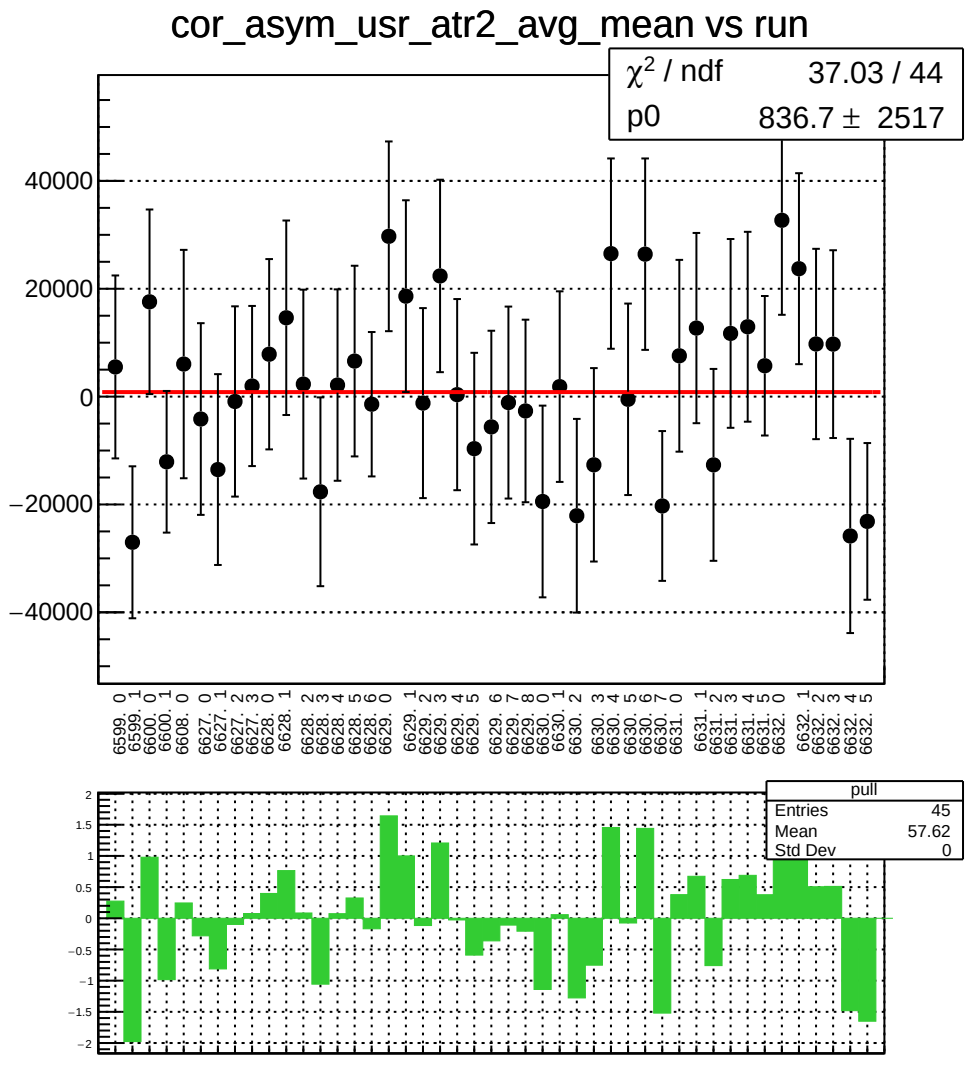
cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 37.03 / 44
p0 836.7 ± 2517
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
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6630. 2
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6630. 5
6630. 6
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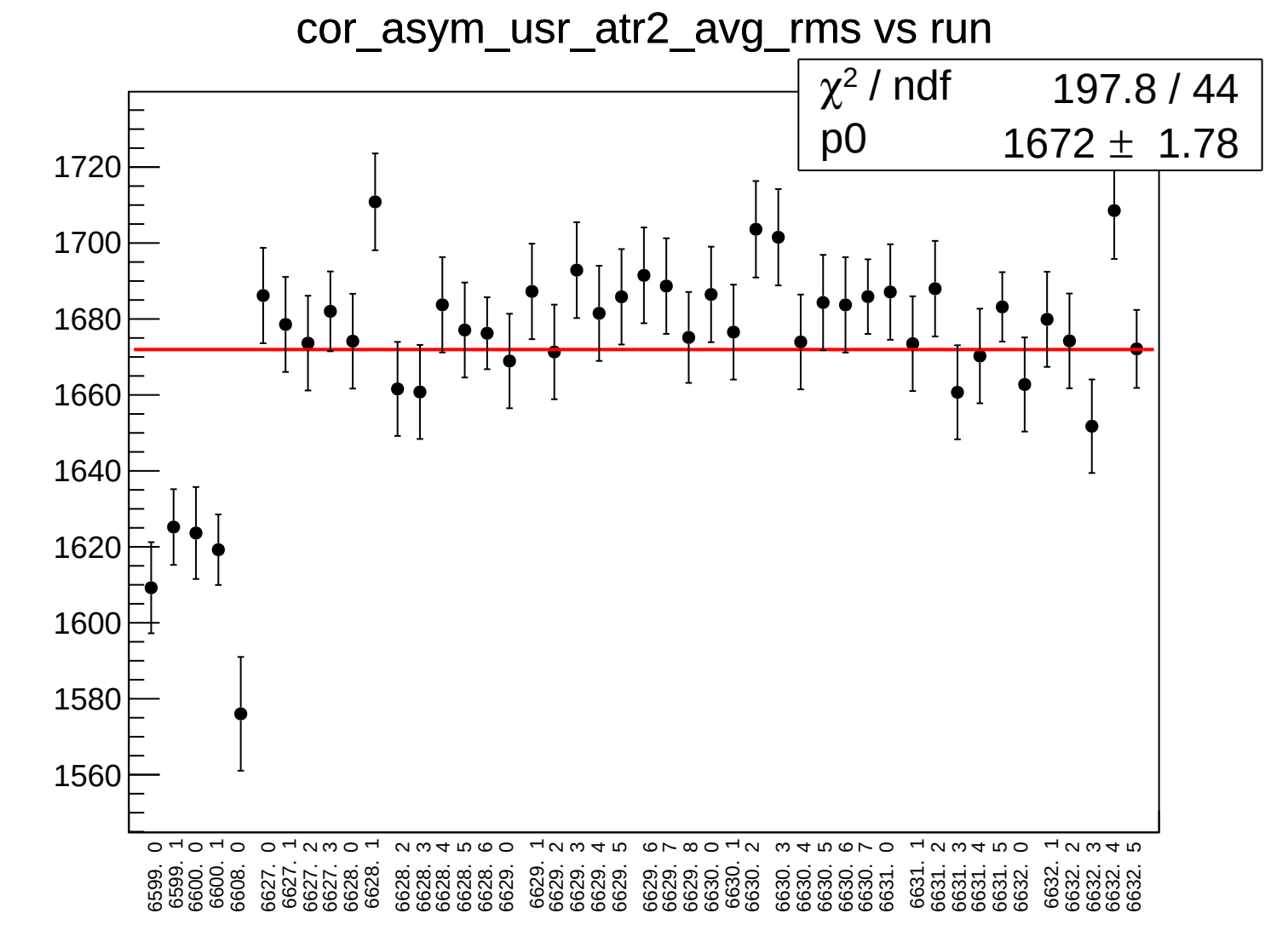
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 57.62
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.03224
Std Dev 0.9065
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 197.8 / 44
p0 1672 ± 1.78
1720
1700
1680
1660
1640
1620
1600
1580
1560
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
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6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
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6630. 7
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6632. 2
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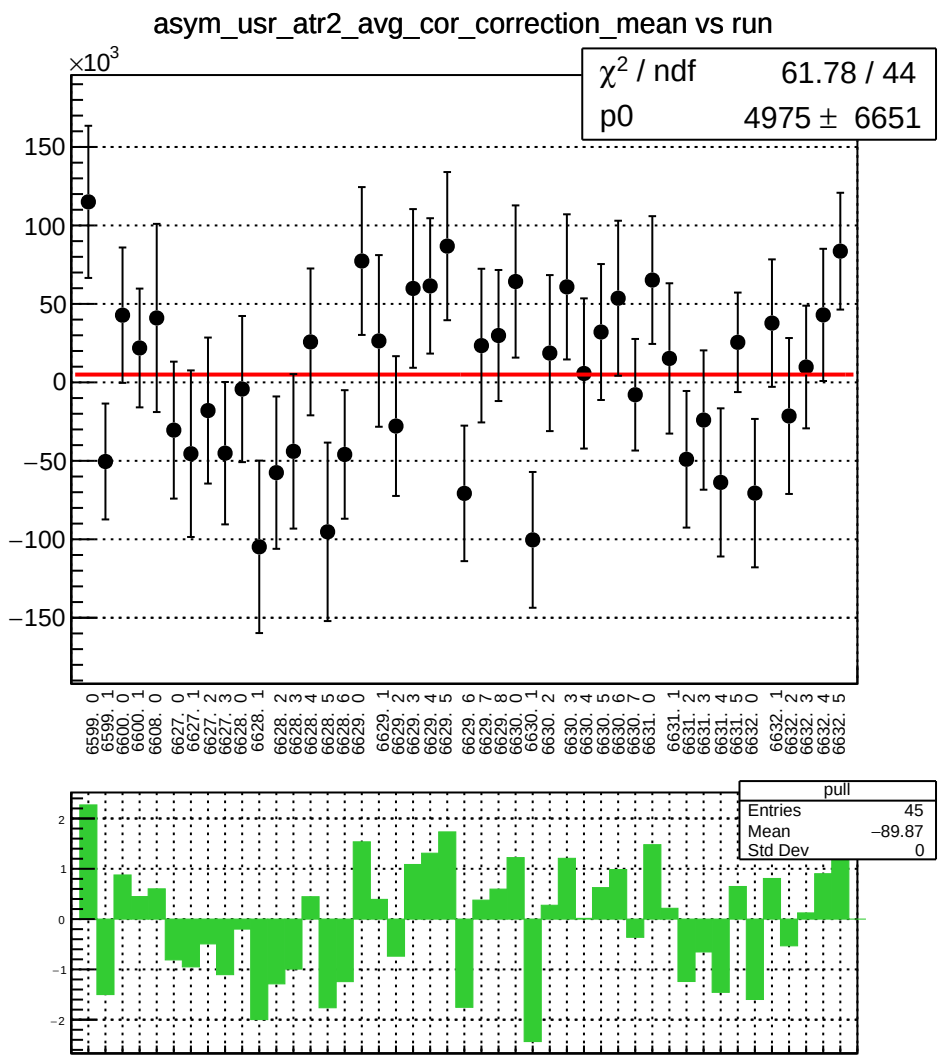
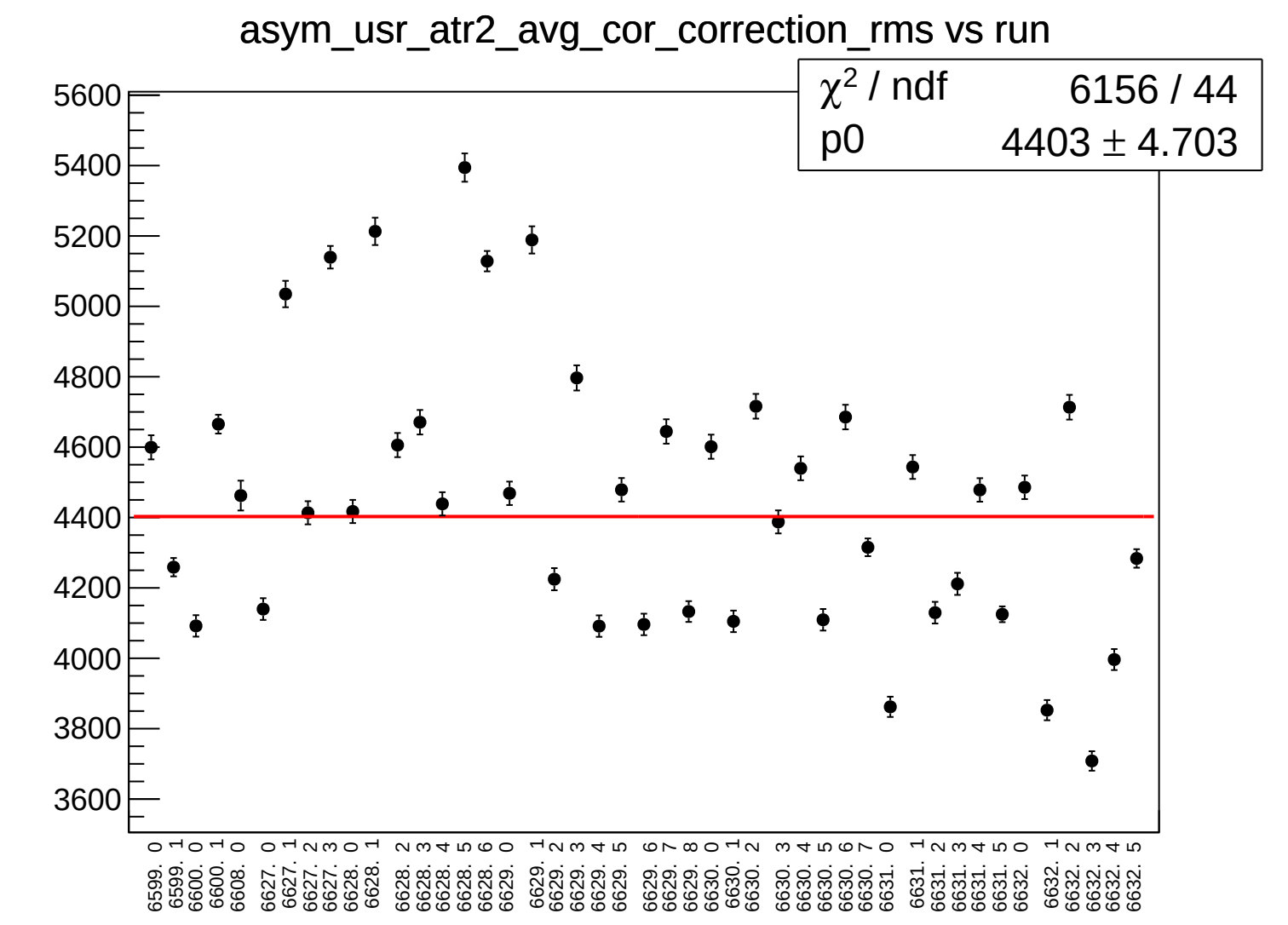
6632. 4
6632. 5


asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 61.78 / 44
p0 4975 ± 6651
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −89.87
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01817
Std Dev 1.172
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 6156 / 44
p0 4403 ± 4.703
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
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6628. 6
6629. 0
6629. 1
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6630. 2
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6630. 5
6630. 6
6630. 7
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6632. 2
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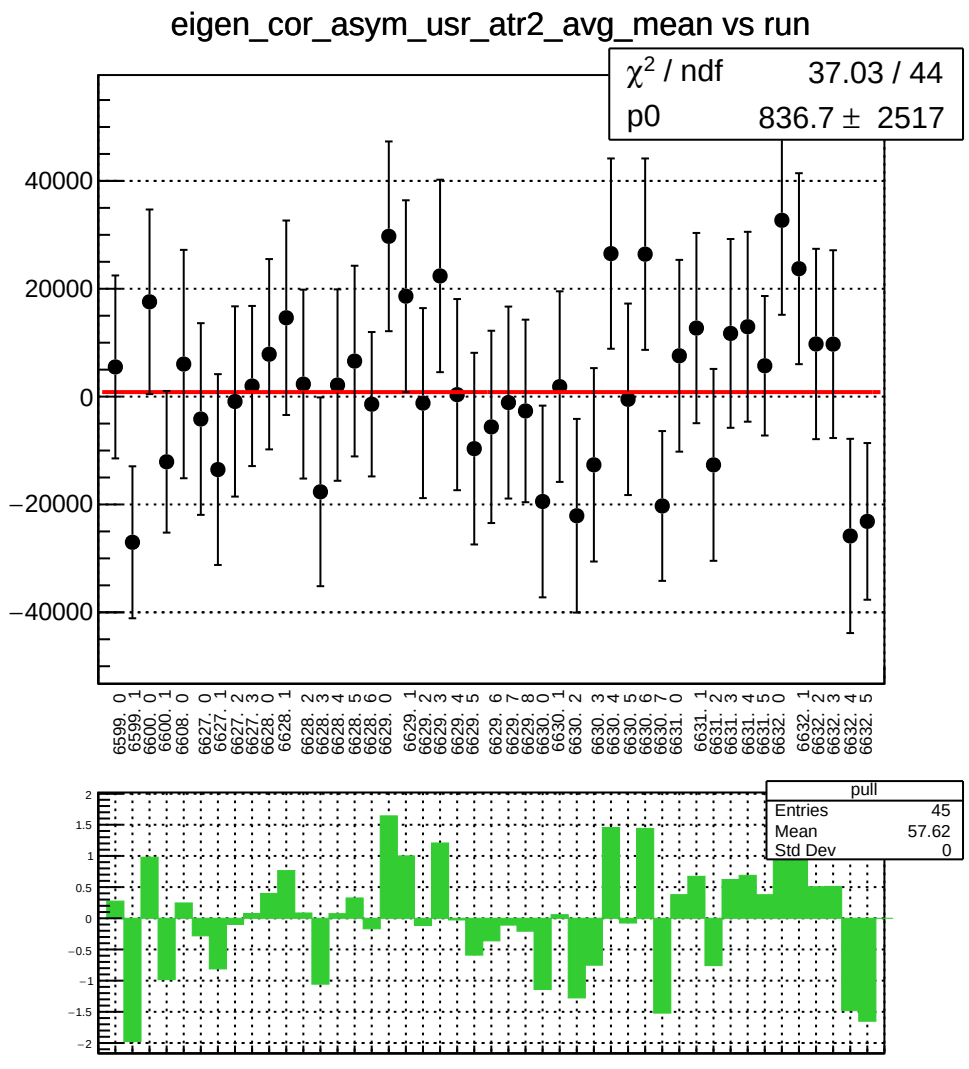
6632. 4
6632. 5


eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 37.03 / 44
p0 836.7 ± 2517
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
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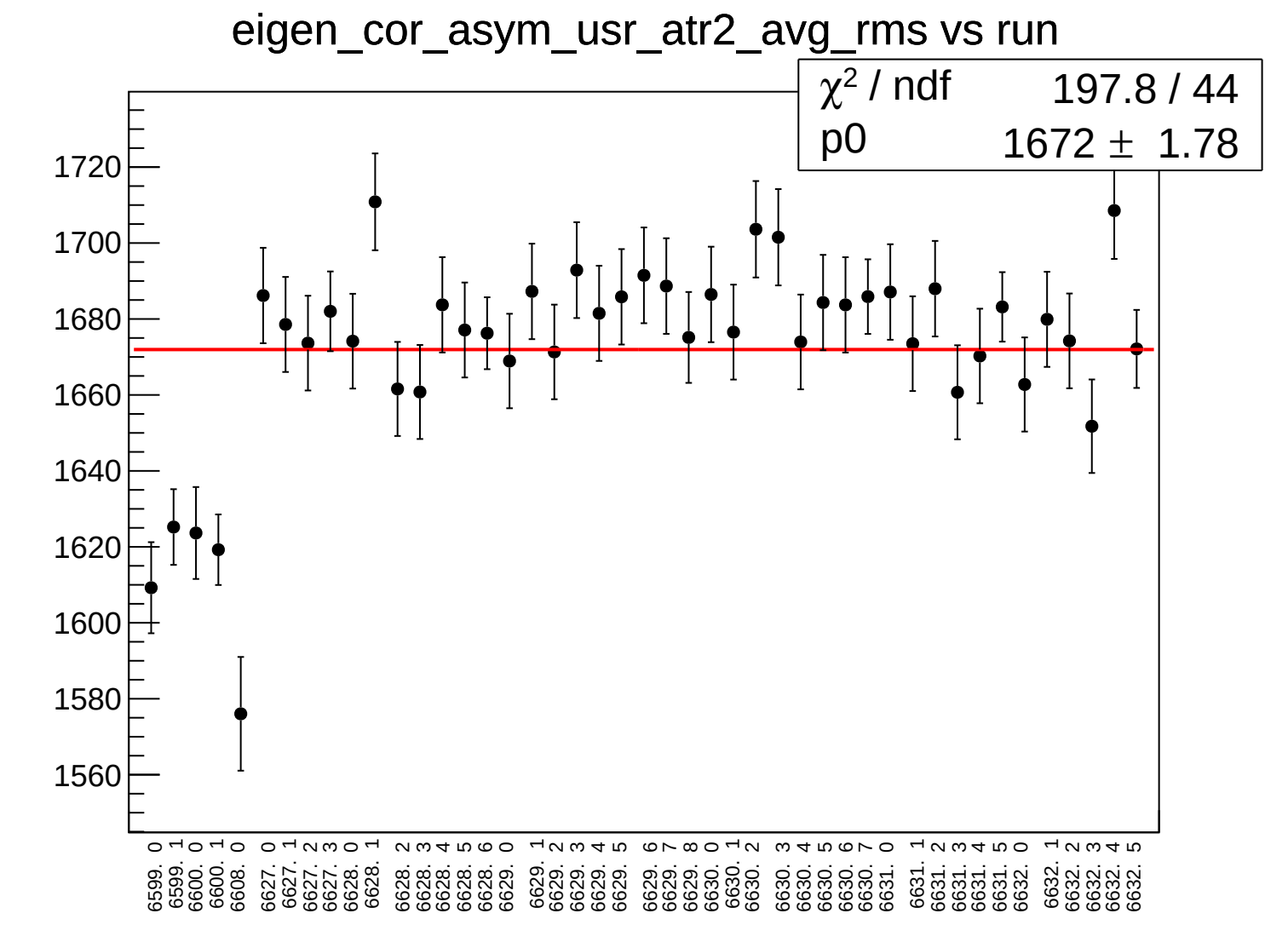
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 57.62
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.03224
Std Dev 0.9065
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 197.8 / 44
p0 1672 ± 1.78
1720
1700
1680
1660
1640
1620
1600
1580
1560
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
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6629. 7
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6630. 0
6630. 1
6630. 2
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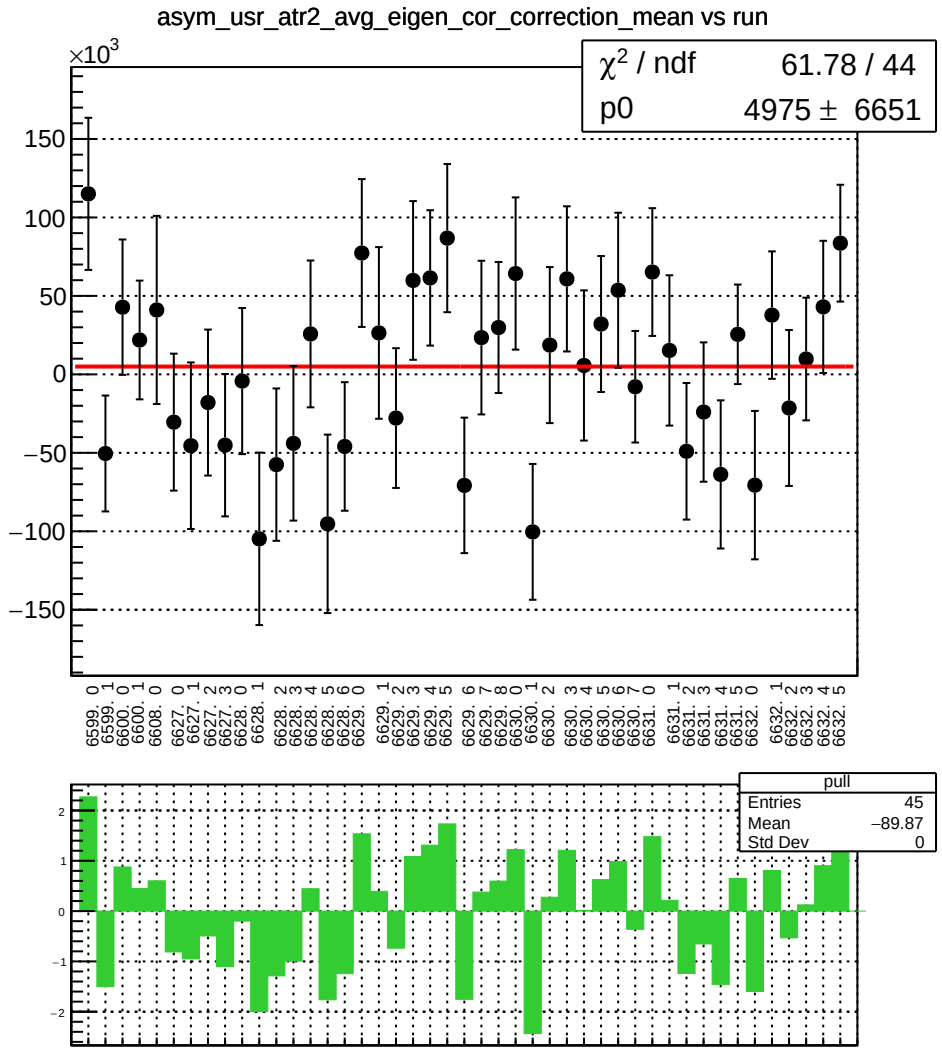
6632. 5


asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 61.78 / 44
p0 4975 ± 6651
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
6628. 3
6628. 4
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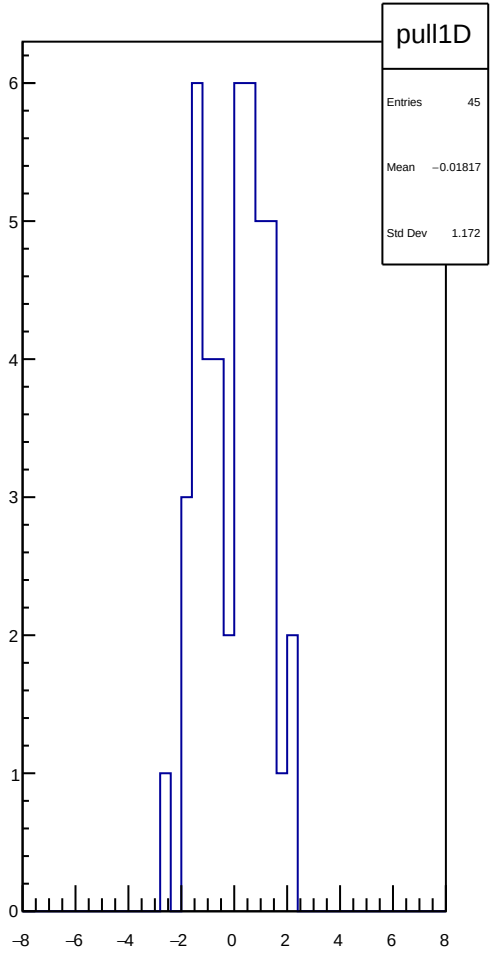
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −89.87
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.01817
Std Dev 1.172
6
5
4
3
2
1
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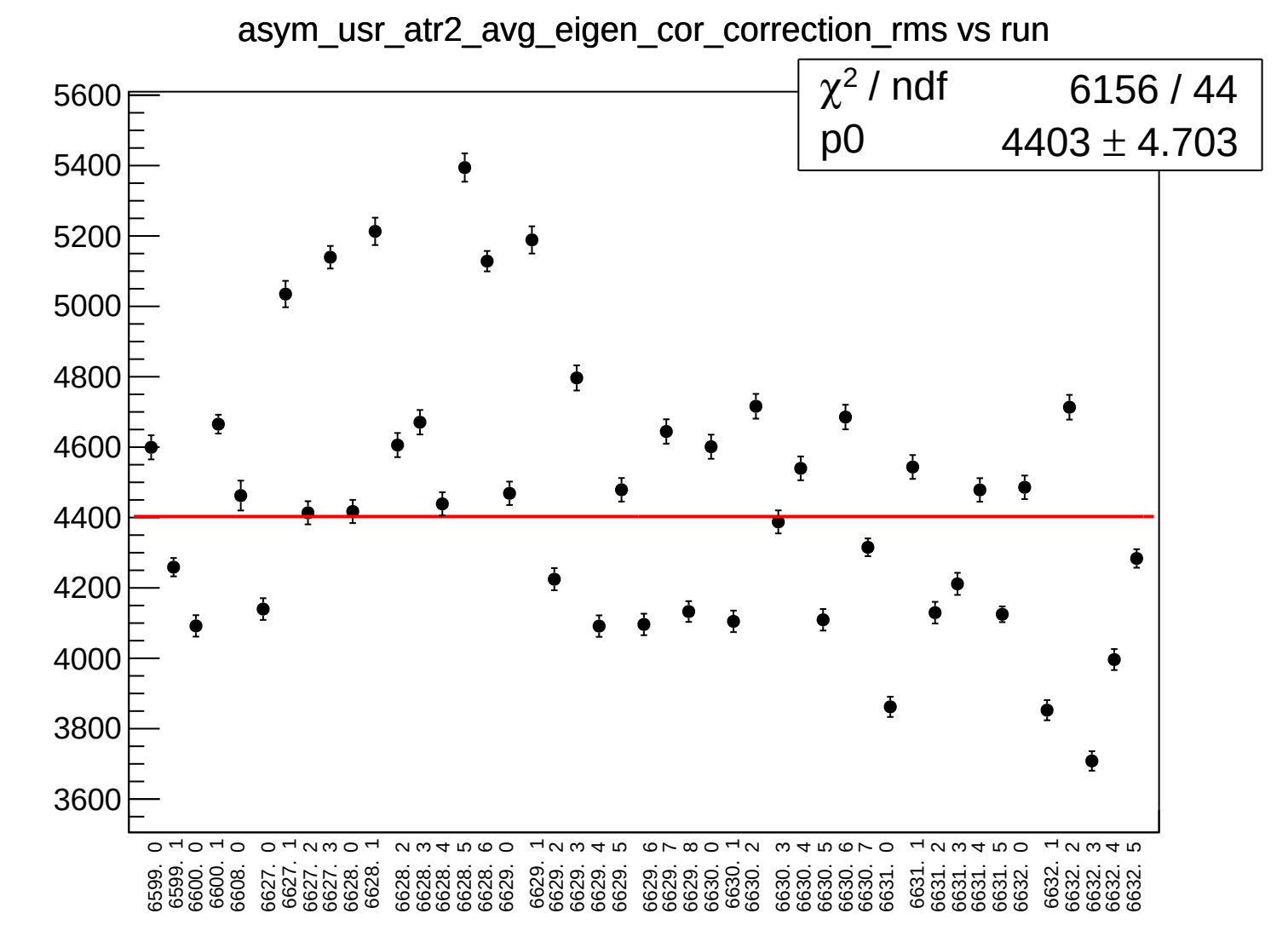
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 6156 / 44
p0 4403 ± 4.703
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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6630. 7
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6631. 1
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6632. 2
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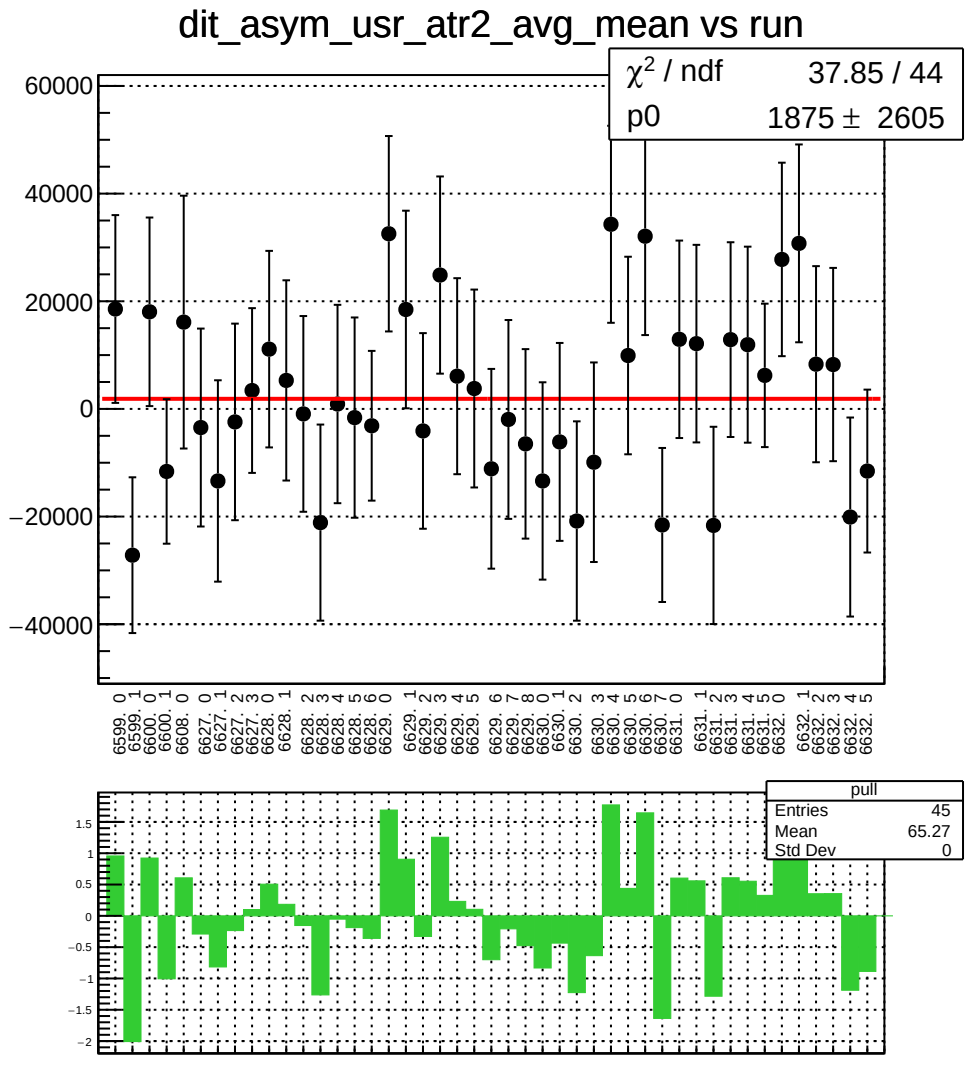
6632. 4
6632. 5


dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 37.85 / 44
p0 1875 ± 2605
60000
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
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6628. 5
6628. 6
6629. 0
6629. 1
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6629. 7
6629. 8
6630. 0
6630. 1
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6630. 4
6630. 5
6630. 6
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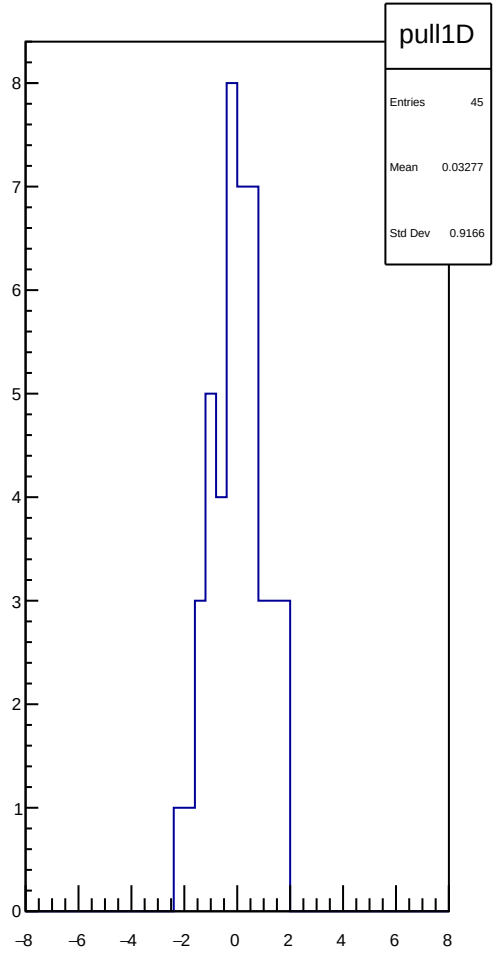
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 65.27
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.03277
Std Dev 0.9166
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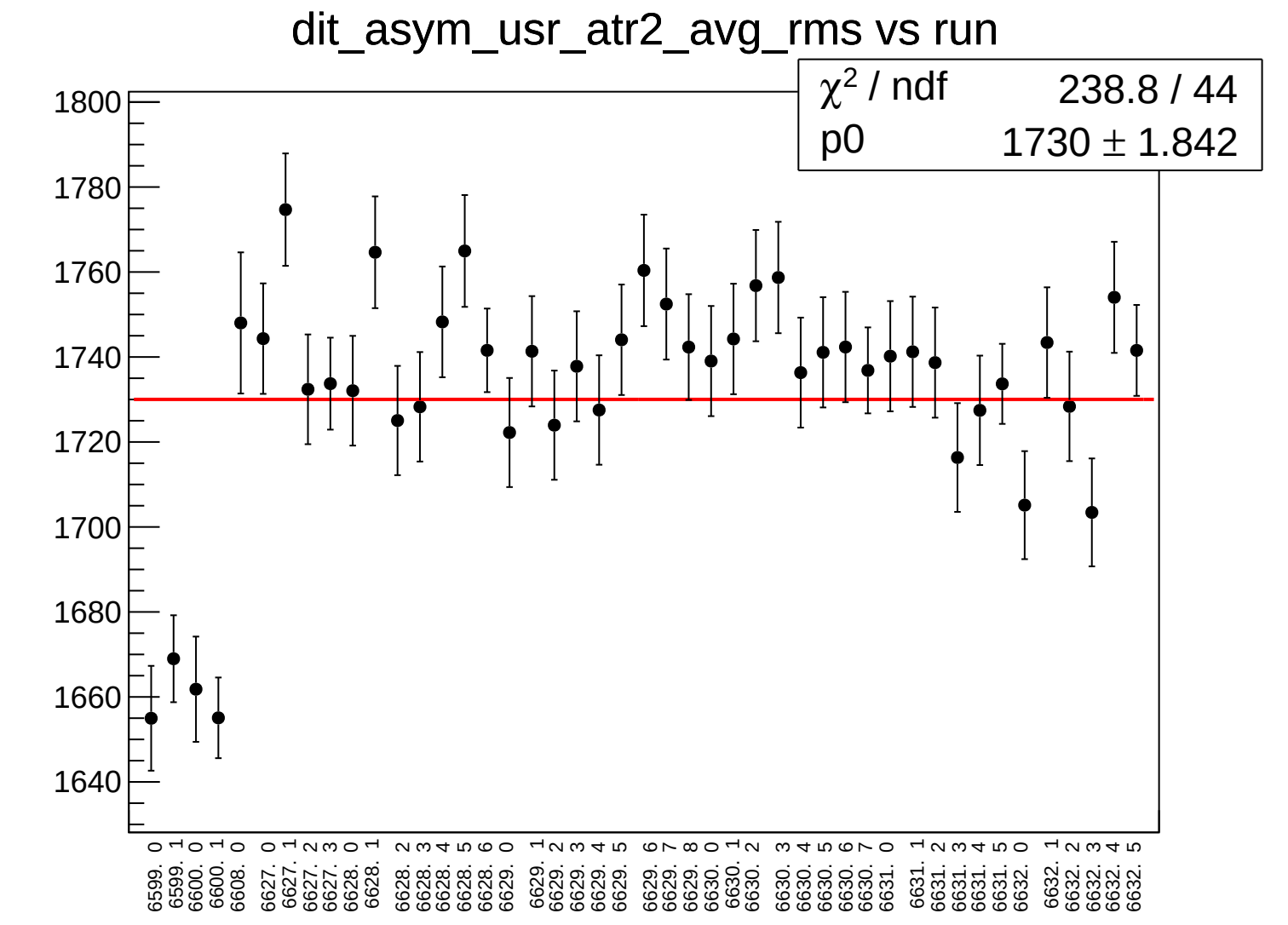
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 238.8 / 44
p0 1730 ± 1.842
1800
1780
1760
1740
1720
1700
1680
1660
1640
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
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6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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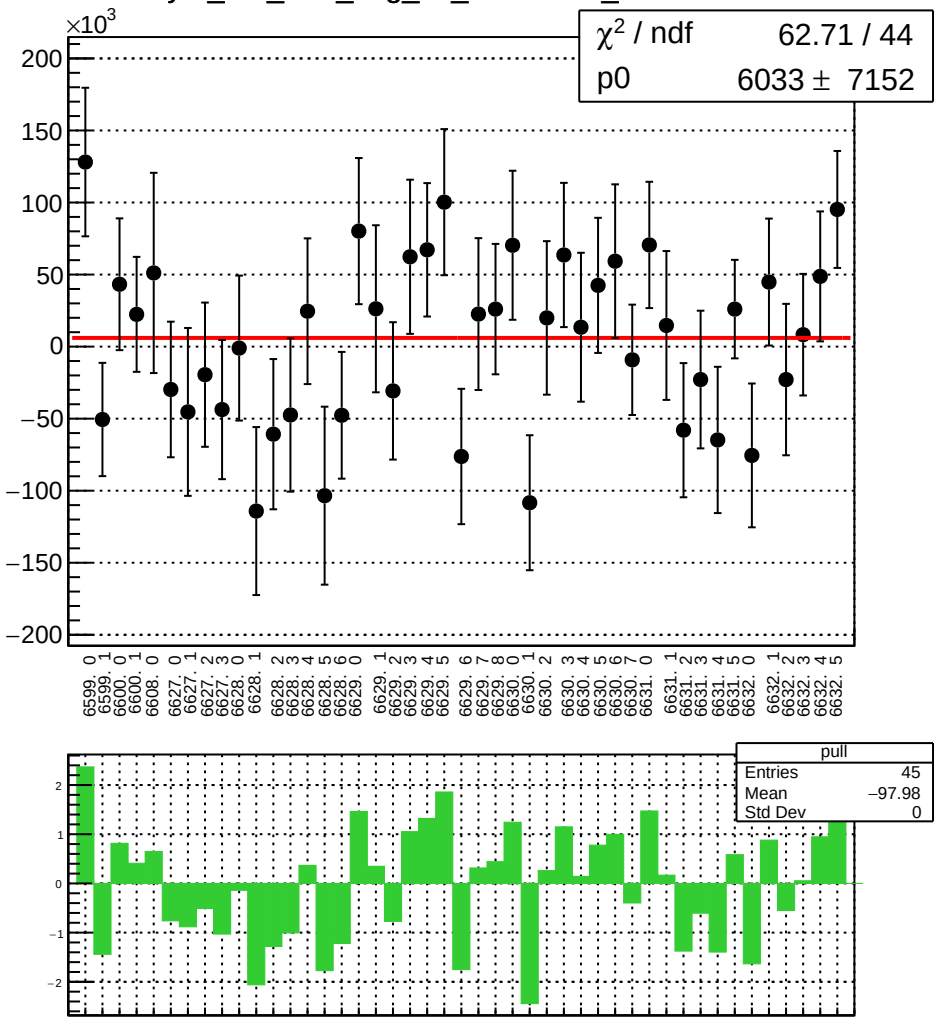
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 62.71 / 44
p0 6033 ± 7152
200
150
100
50
0
−50
−100
−150
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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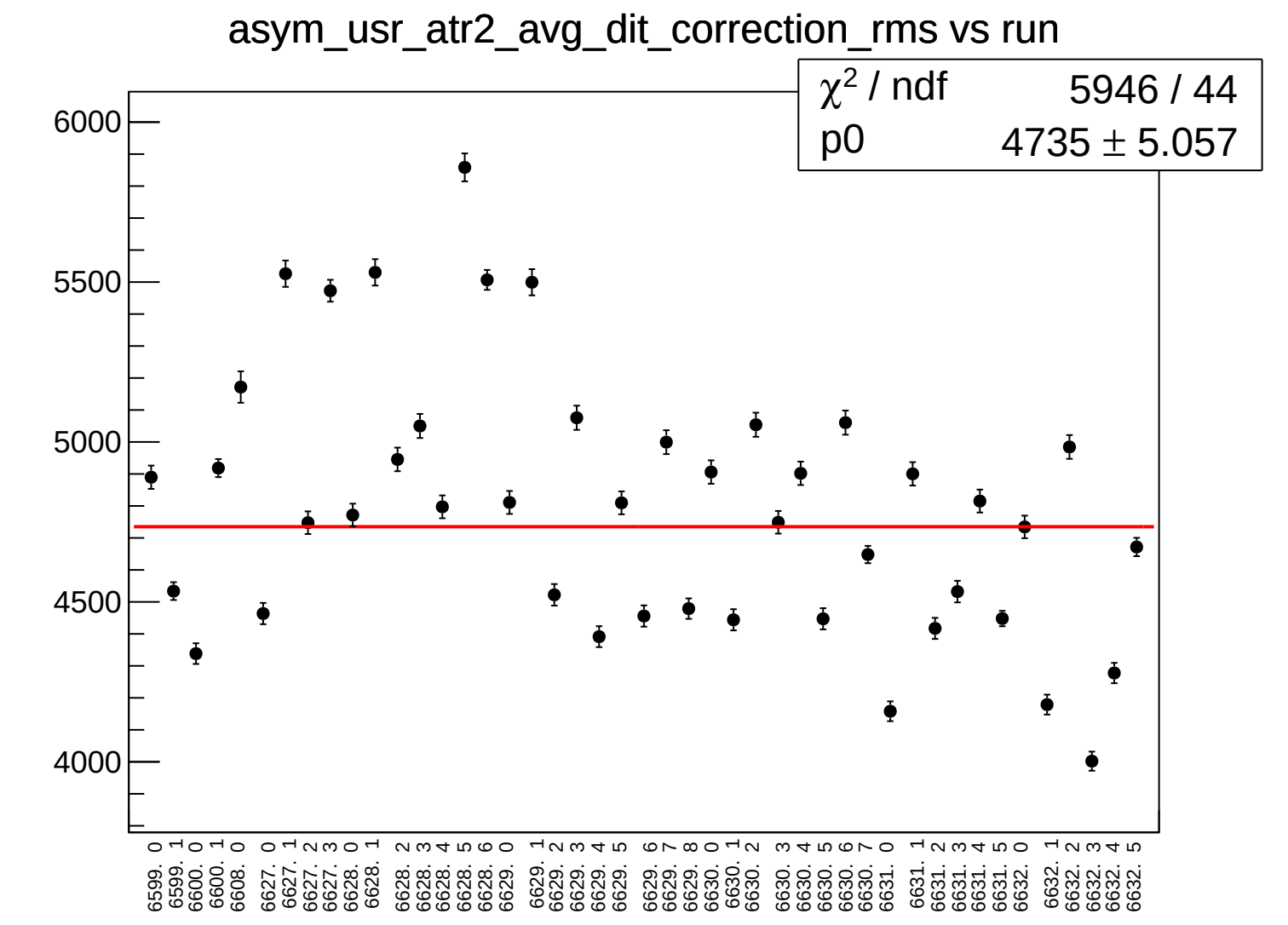
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −97.98
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01647
Std Dev 1.18
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 5946 / 44
p0 4735 ± 5.057
6000
5500
5000
4500
4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
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6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
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6630. 7
6631. 0
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6632. 1
6632. 2
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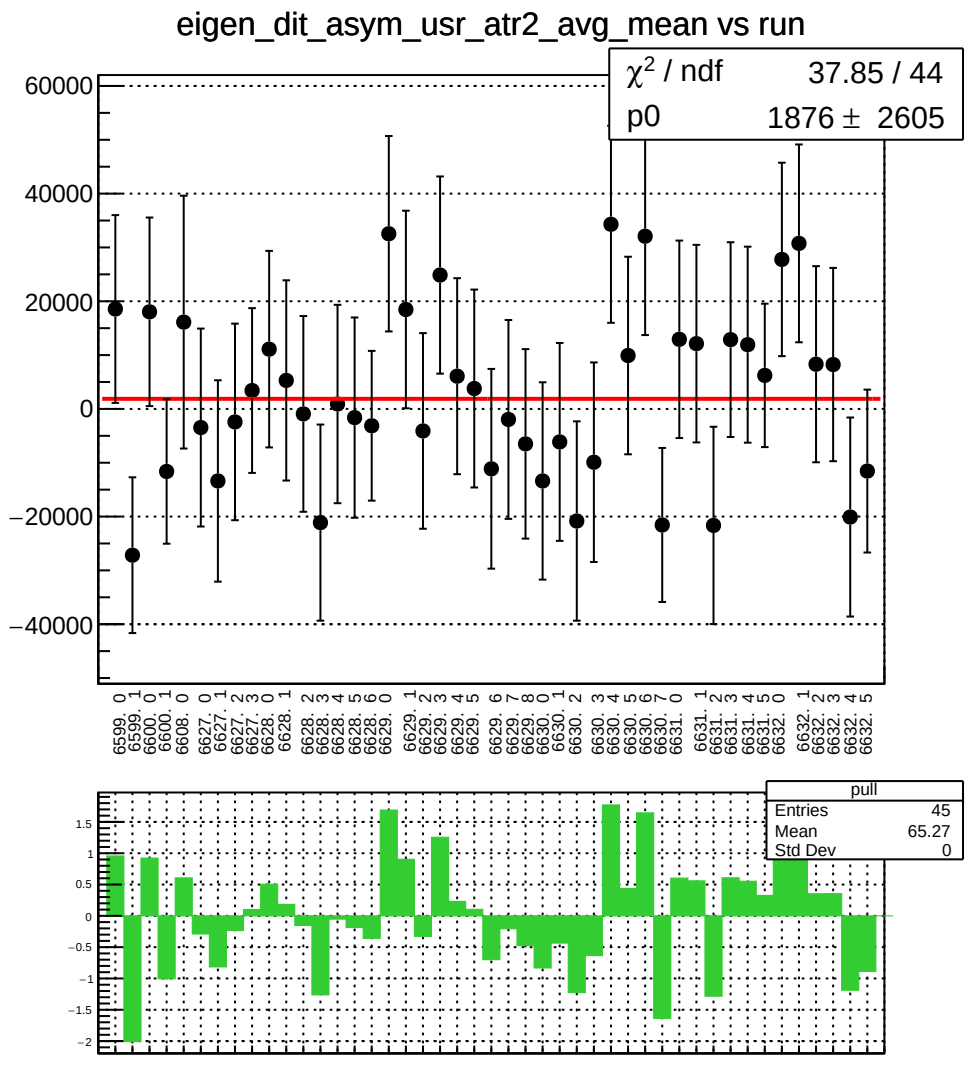
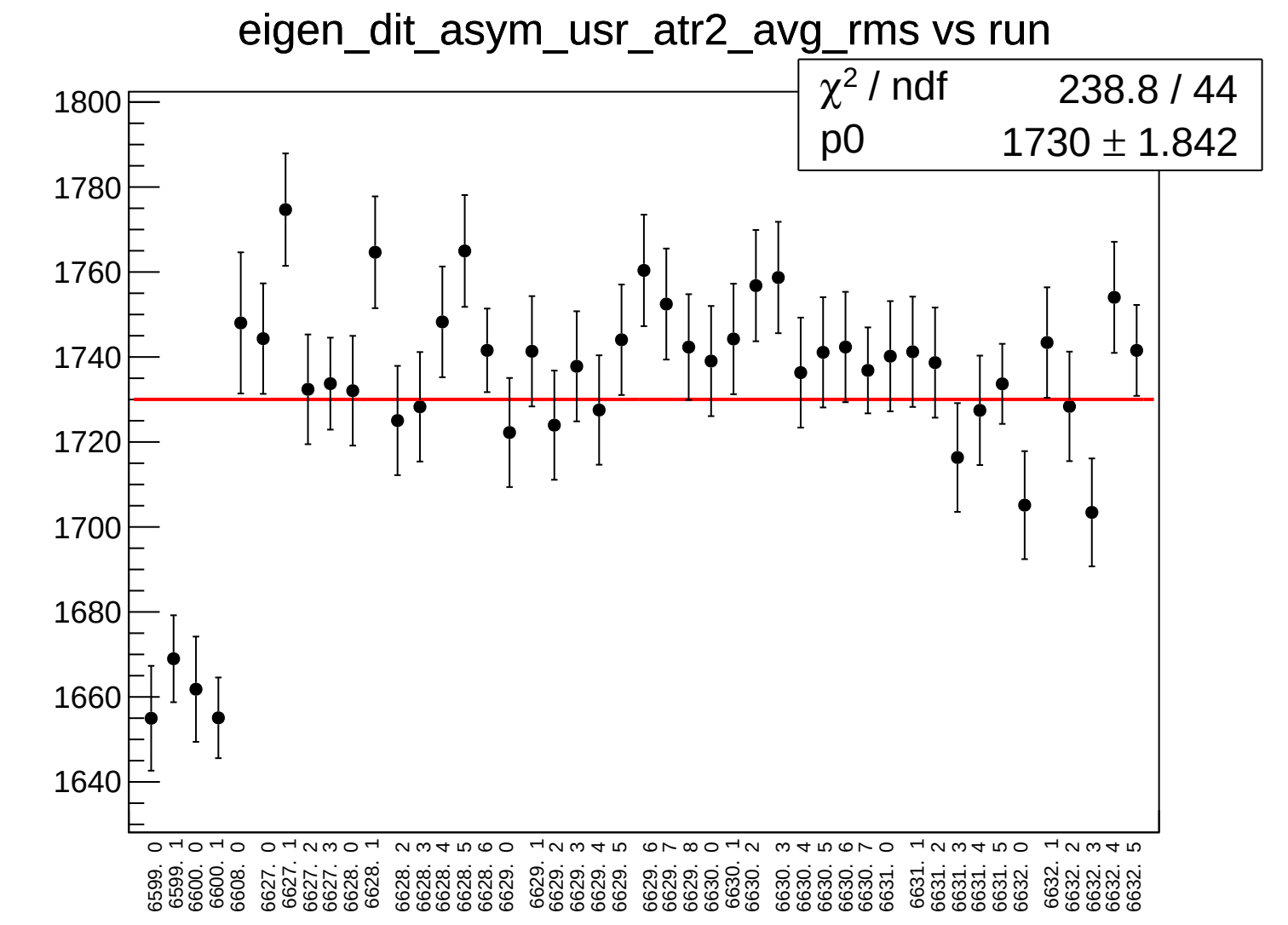
6632. 4
6632. 5


eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 37.85 / 44
p0 1876 ± 2605
60000
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 65.27
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.03277
Std Dev 0.9166
8
7
6
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 238.8 / 44
p0 1730 ± 1.842
1800
1780
1760
1740
1720
1700
1680
1660
1640
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
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6632. 1
6632. 2
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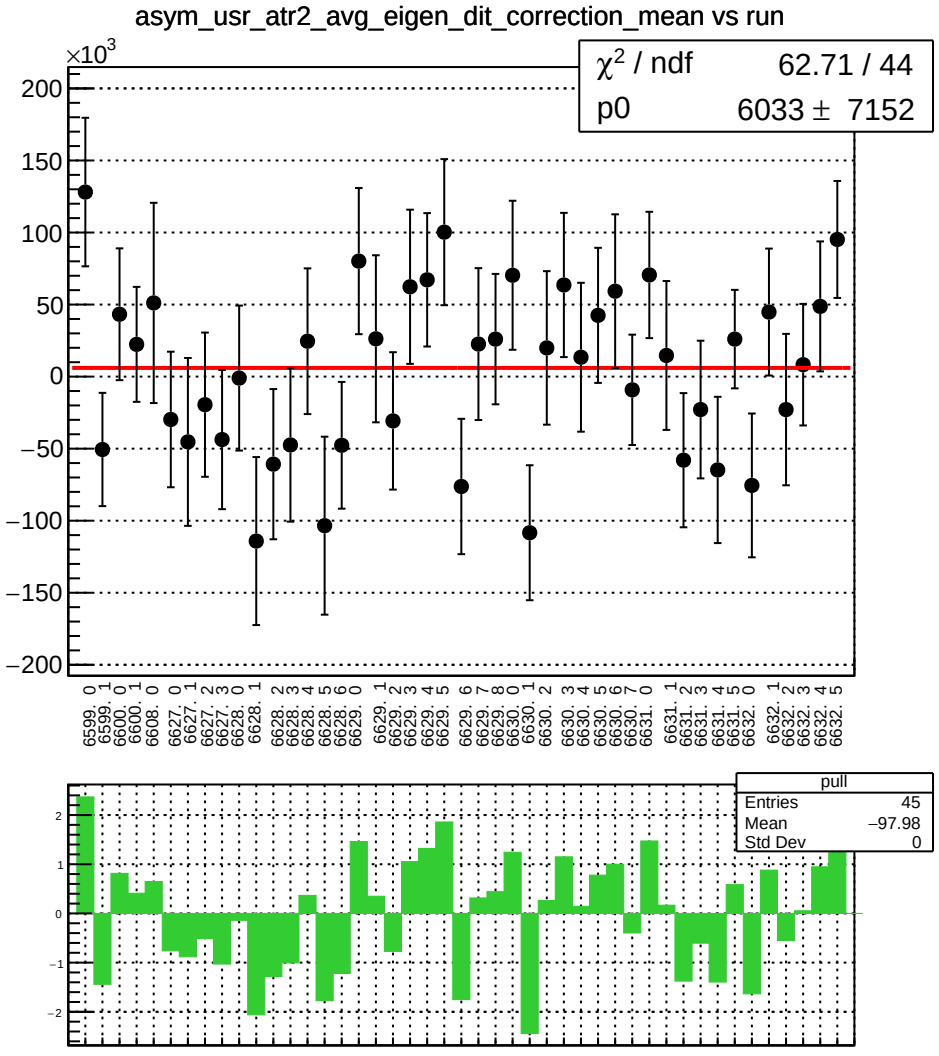
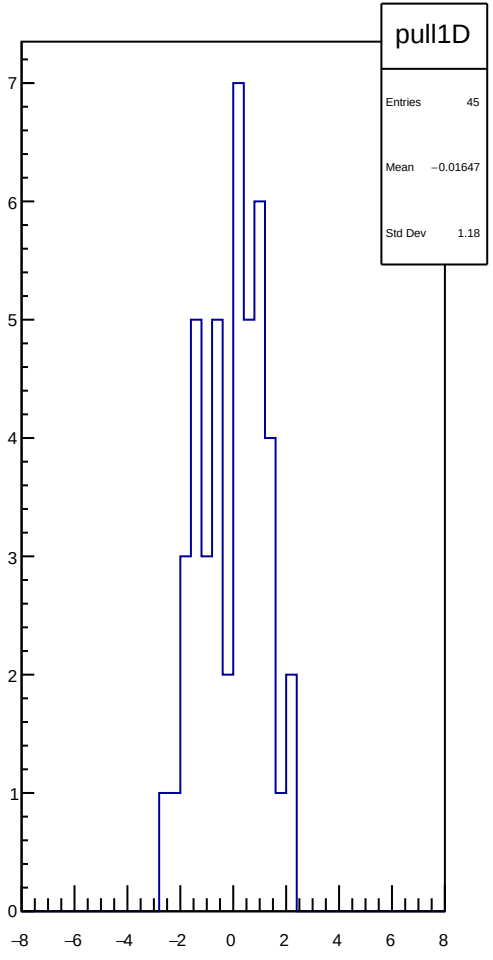
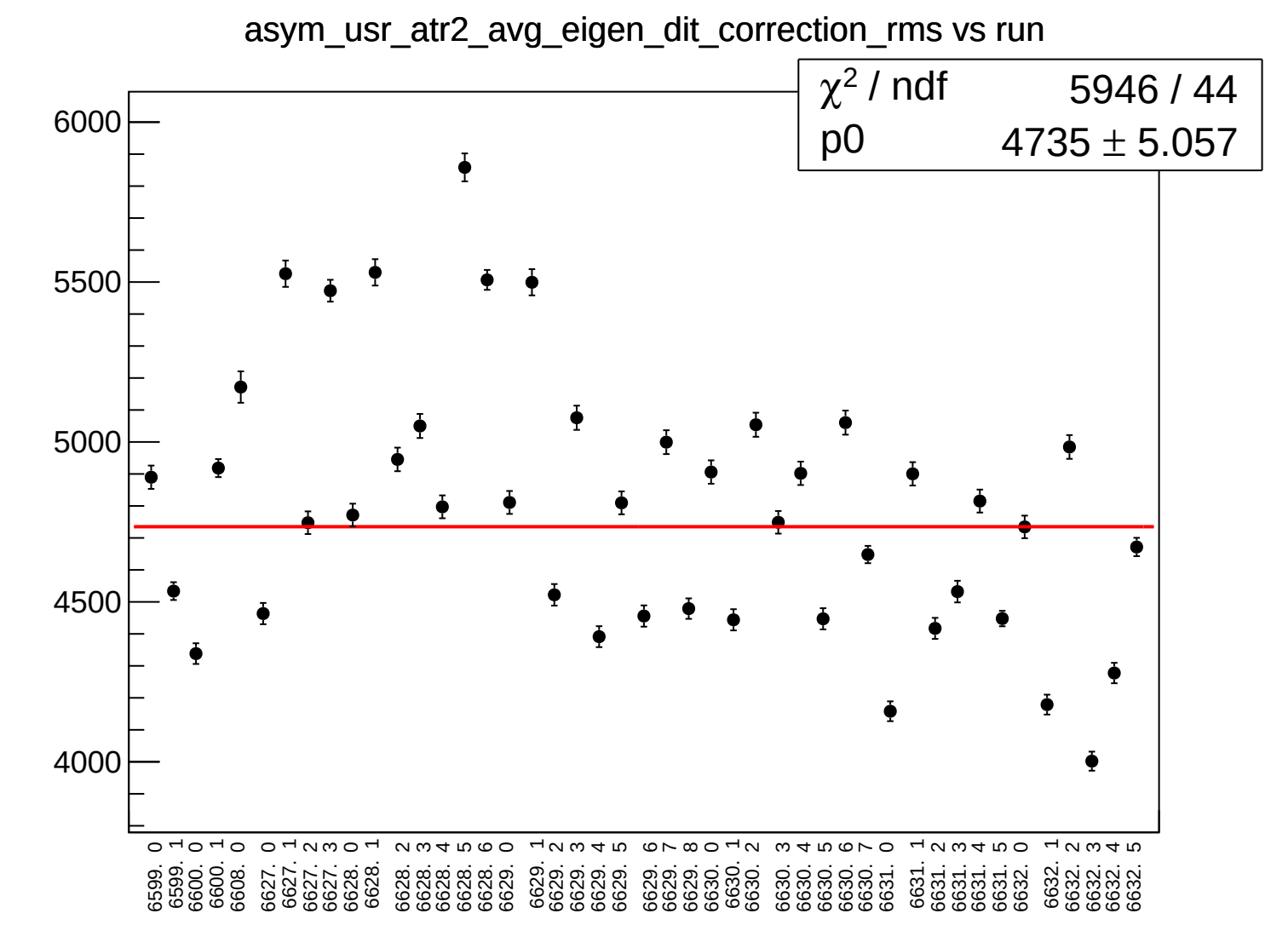
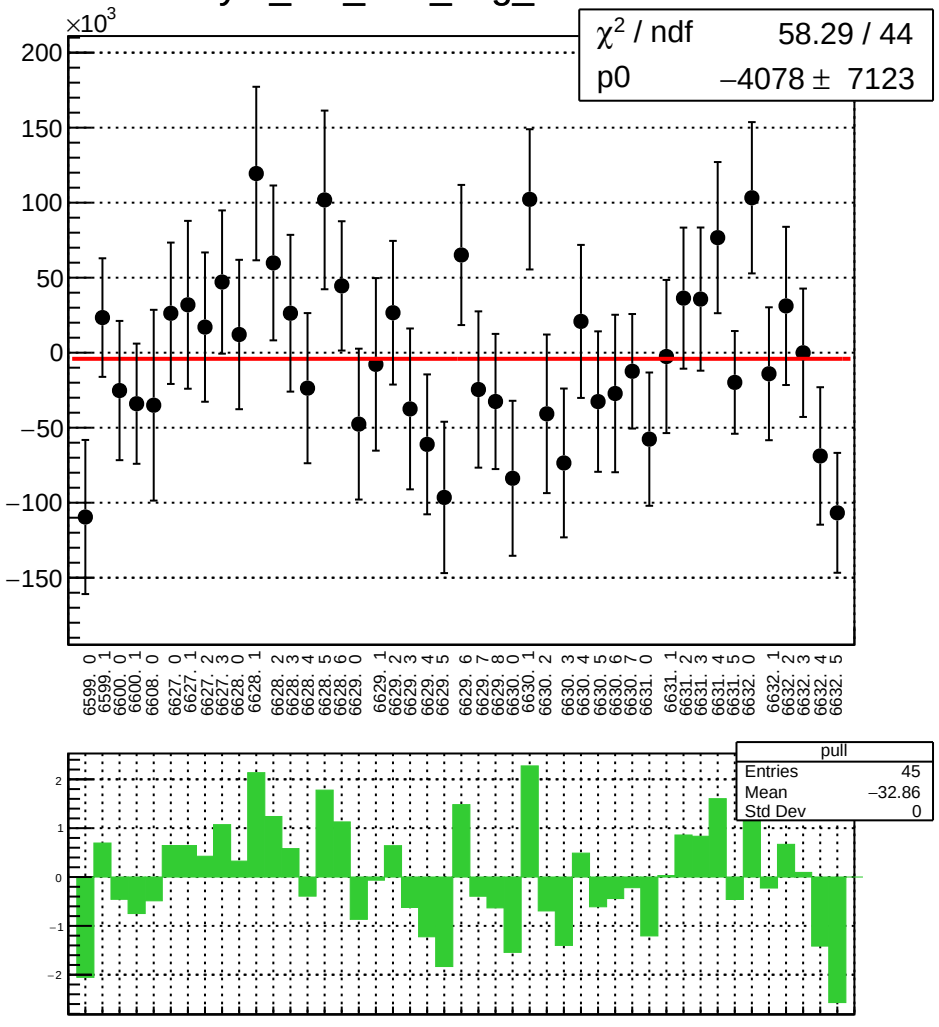
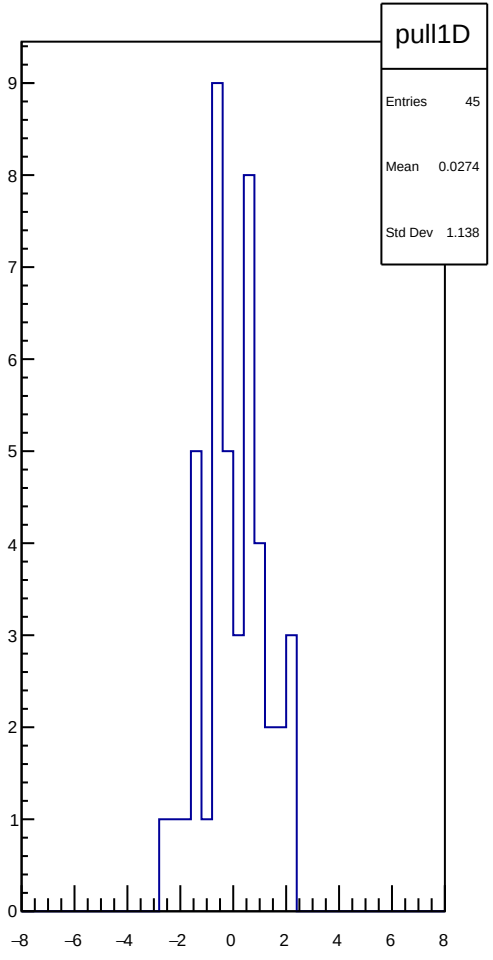
6632. 4
6632. 5

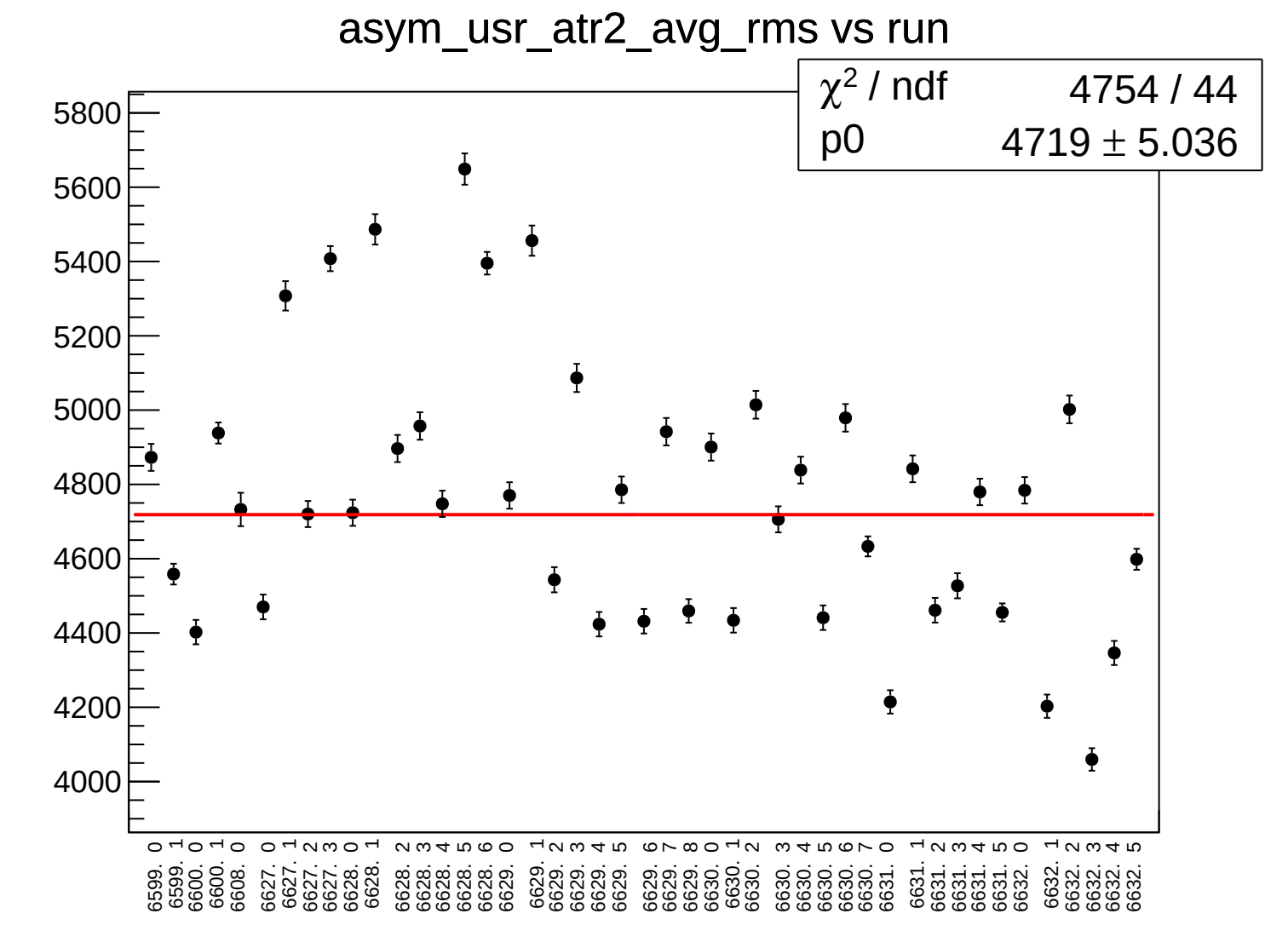

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 62.71 / 44
p0 6033 ± 7152
200
150
100
50
0
−50
−100
−150
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −97.98
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.01647
Std Dev 1.18
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 5946 / 44
p0 4735 ± 5.057
6000
5500
5000
4500
4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 58.29 / 44
p0 −4078 ± 7123
200
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −32.86
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.0274
Std Dev 1.138
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_avg_rms vs run
χ² / ndf 4754 / 44
p0 4719 ± 5.036
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
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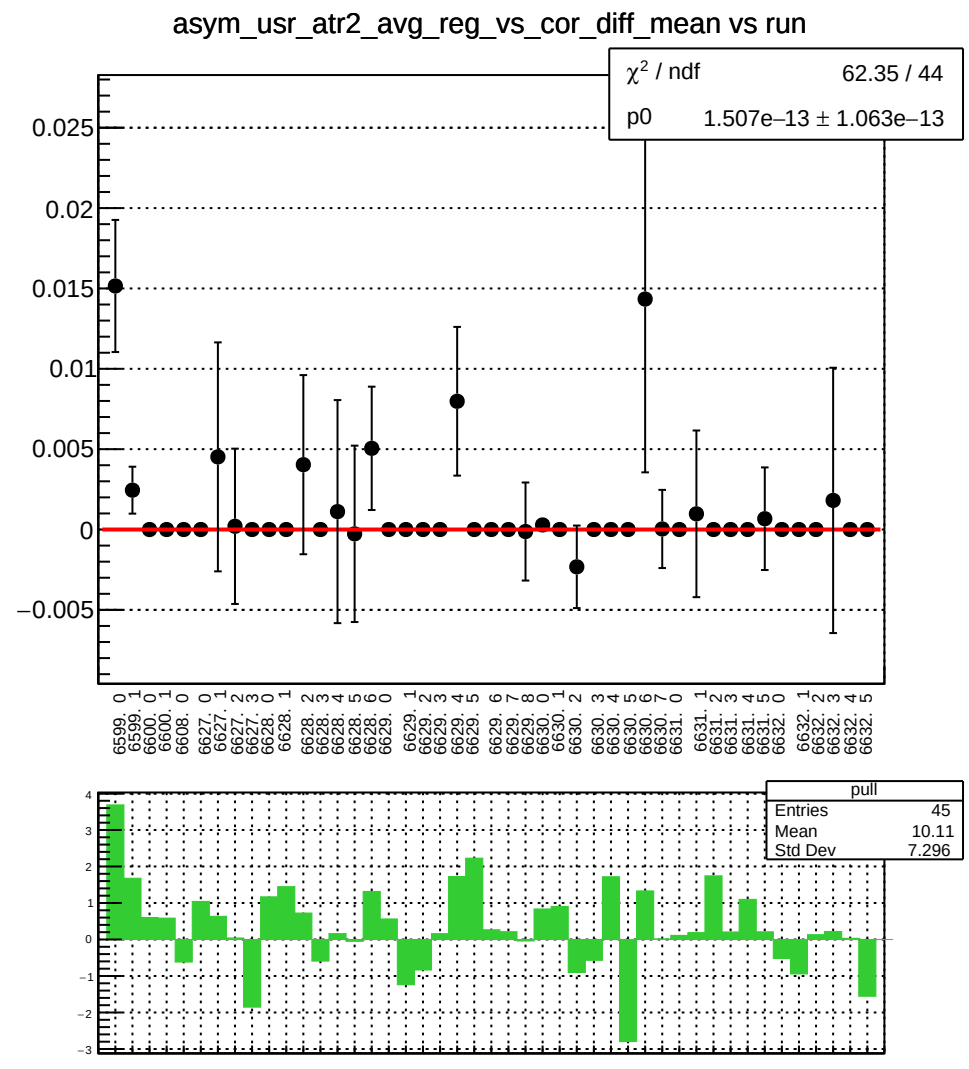
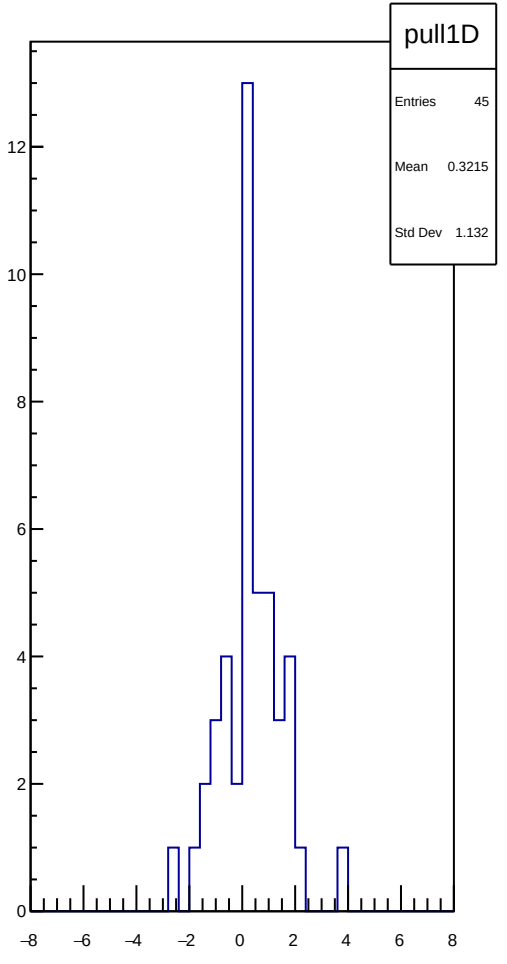
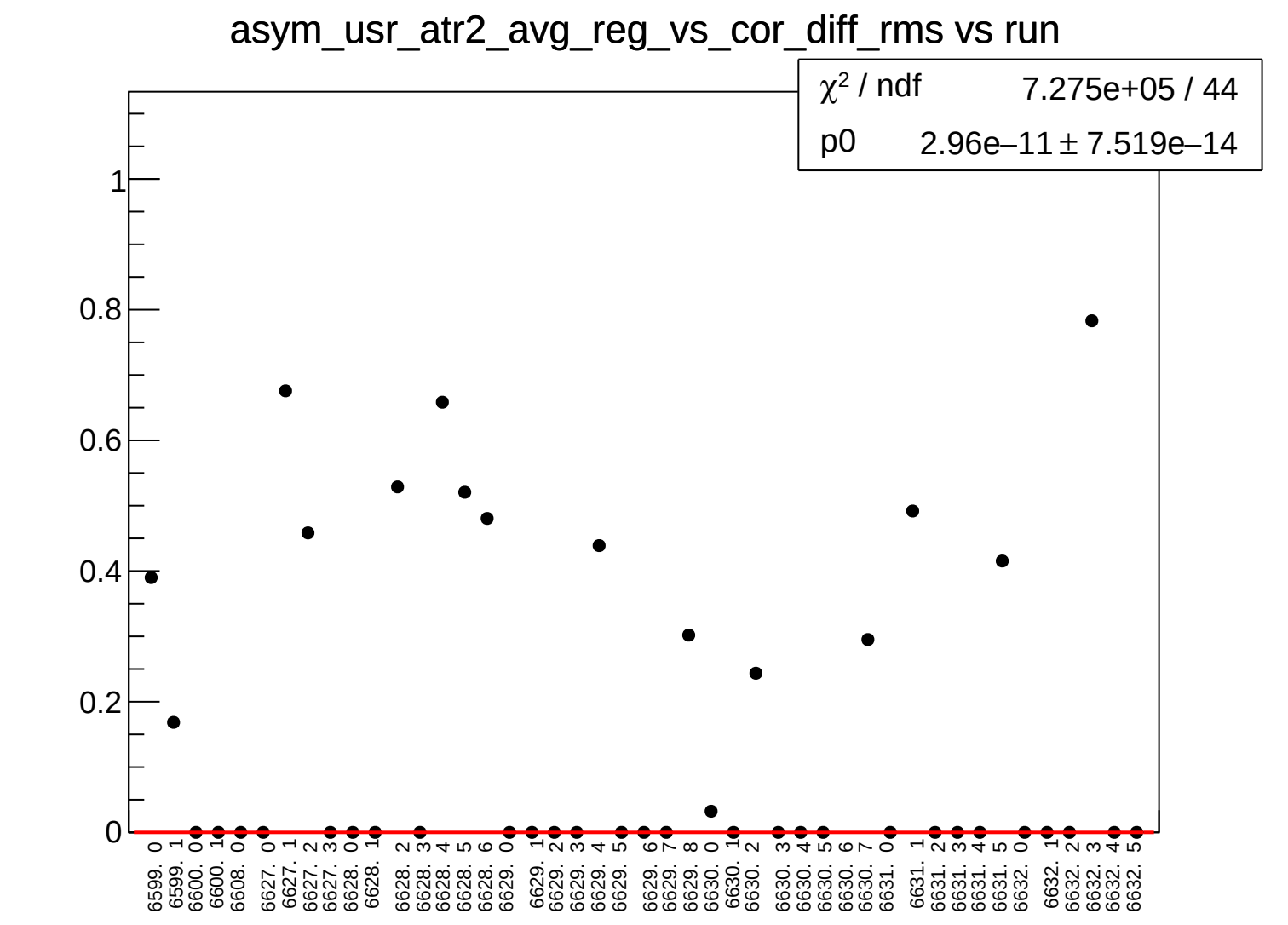
6632. 4
6632. 5


asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 62.35 / 44
p0 1.507e−13 ± 1.063e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 10.11
Std Dev 7.296
4
3
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.3215
Std Dev 1.132
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.275e+05 / 44
p0 2.96e−11 ± 7.519e−14
1
0.8
0.6
0.4
0.2
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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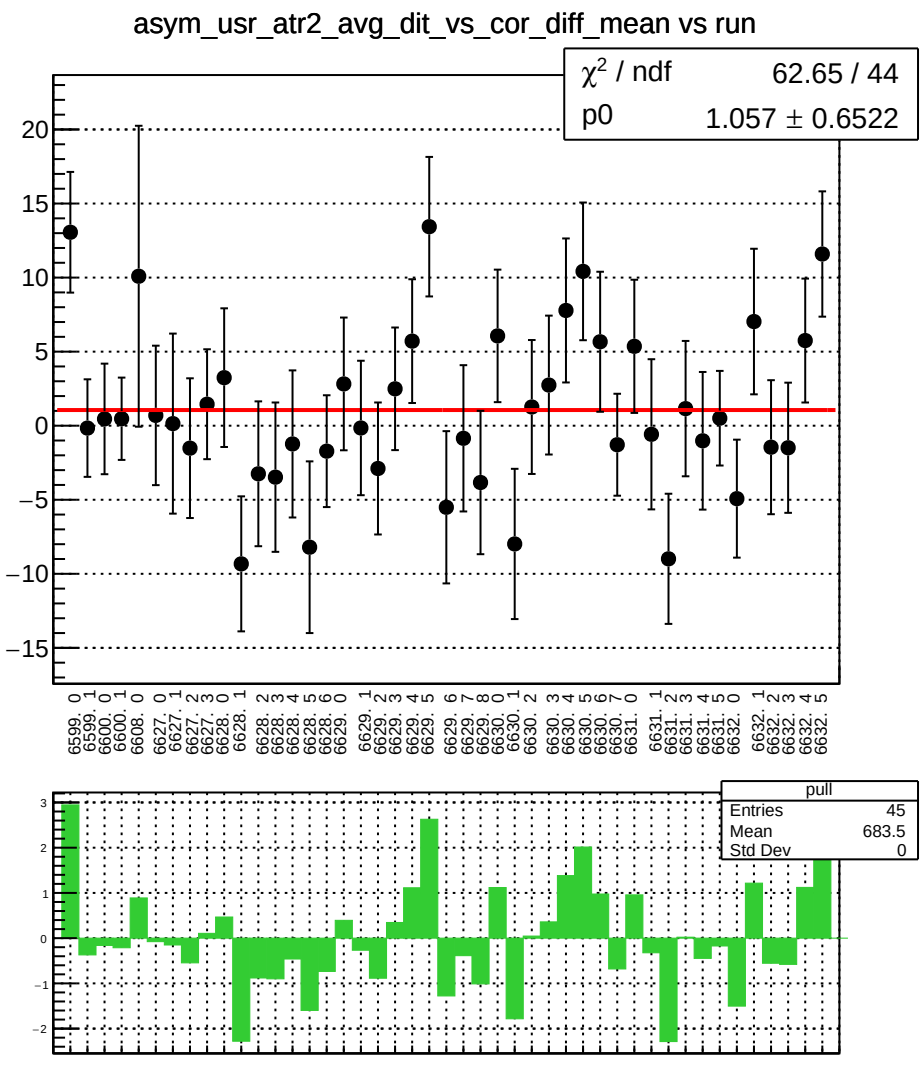
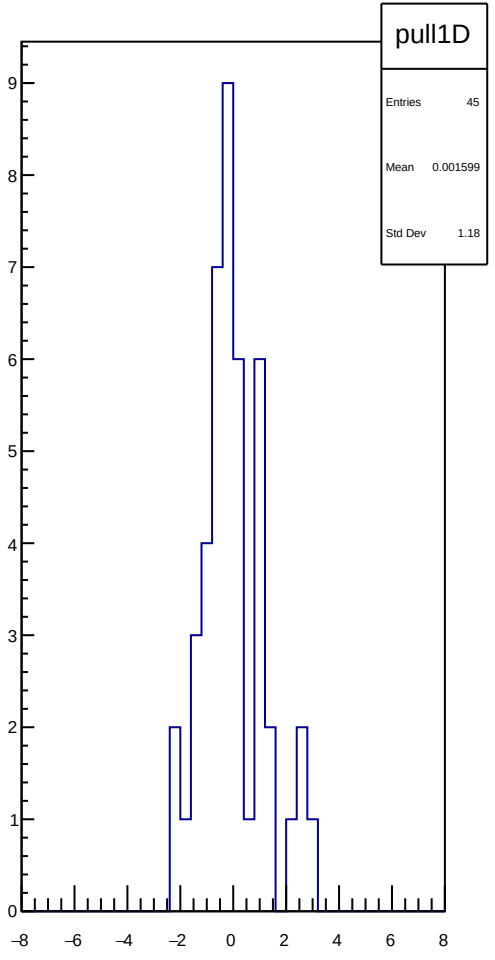
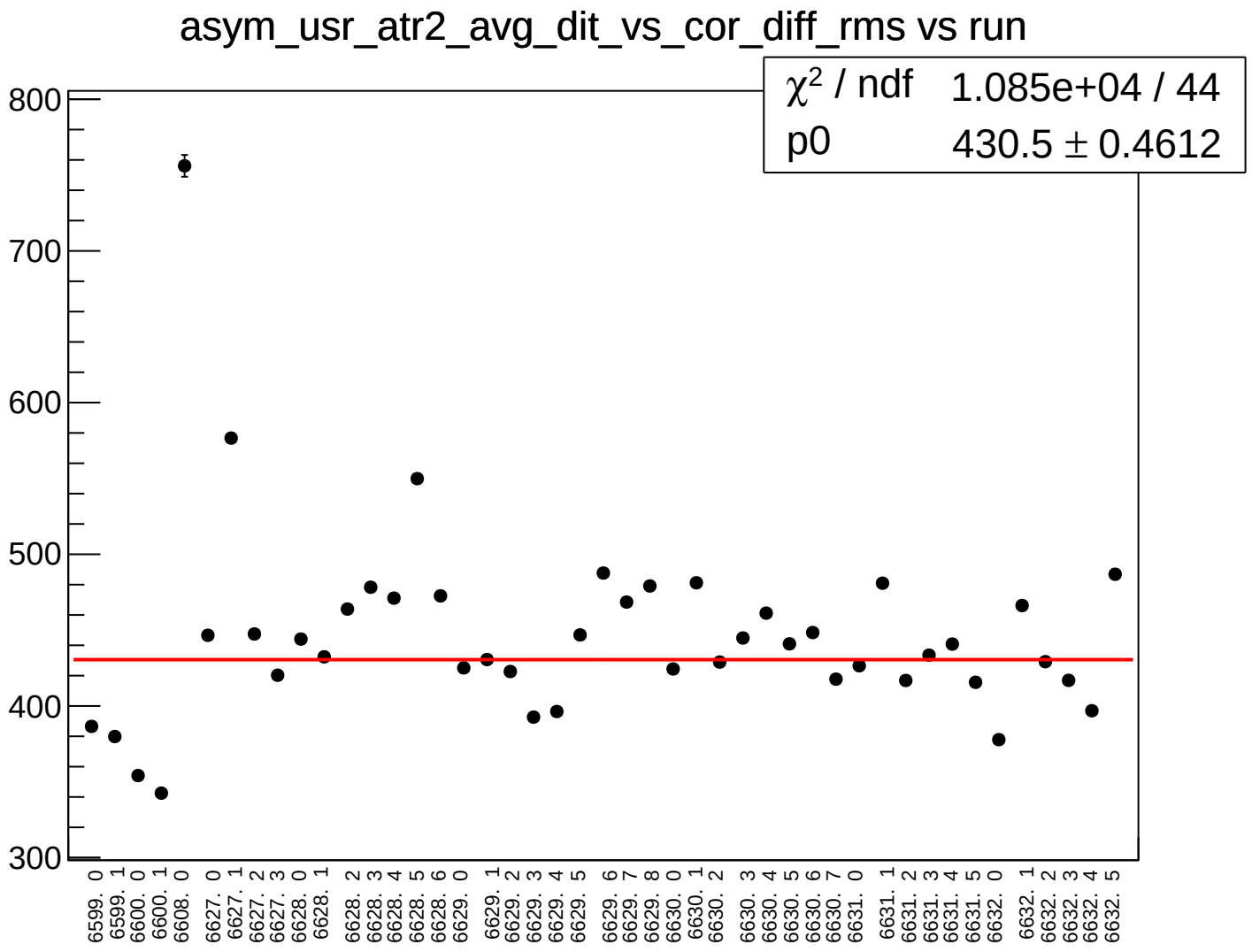
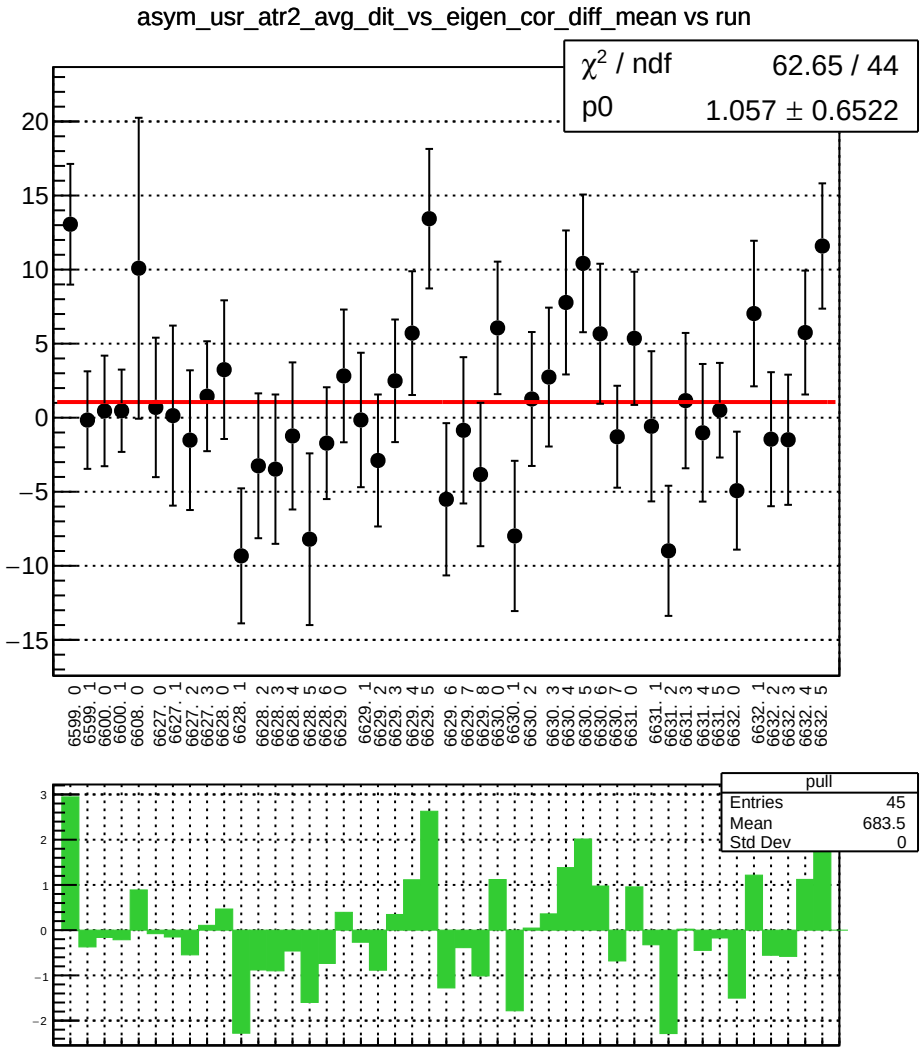
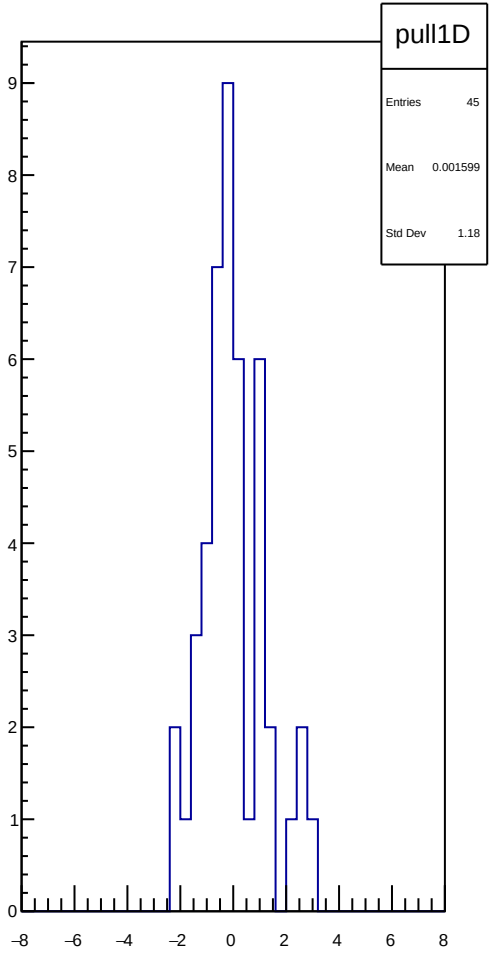
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

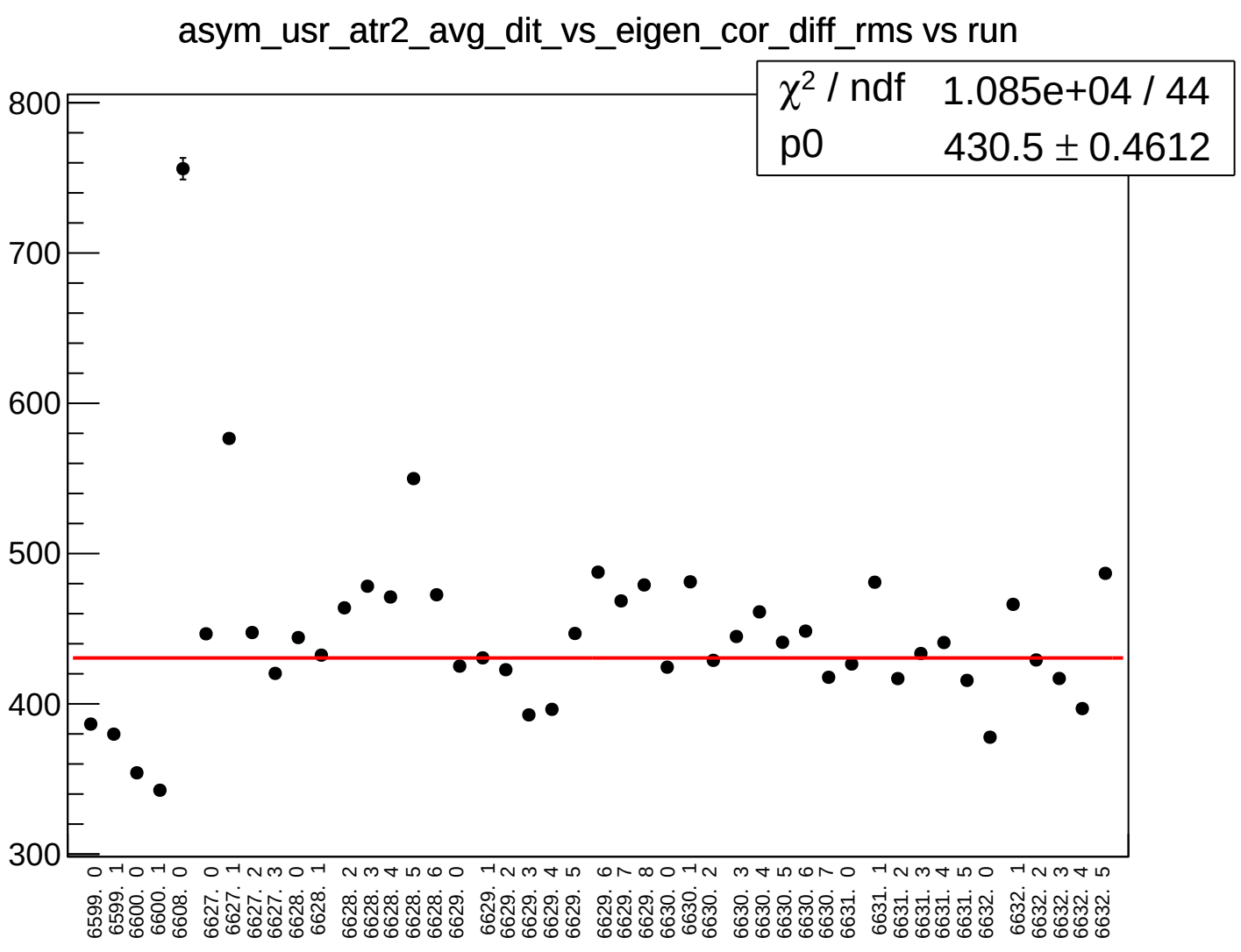

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 62.65 / 44
p0 1.057 ± 0.6522
pull
Entries 45
Mean 683.5
Std Dev 0


pull1D
Entries 45
Mean 0.001599
Std Dev 1.18


asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.085e+04 / 44
p0 430.5 ± 0.4612
800
700
600
500
400
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 62.65 / 44
p0 1.057 ± 0.6522
pull
Entries 45
Mean 683.5
Std Dev 0


pull1D
Entries 45
Mean 0.001599
Std Dev 1.18


asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.085e+04 / 44
p0 430.5 ± 0.4612
800
700
600
500
400
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
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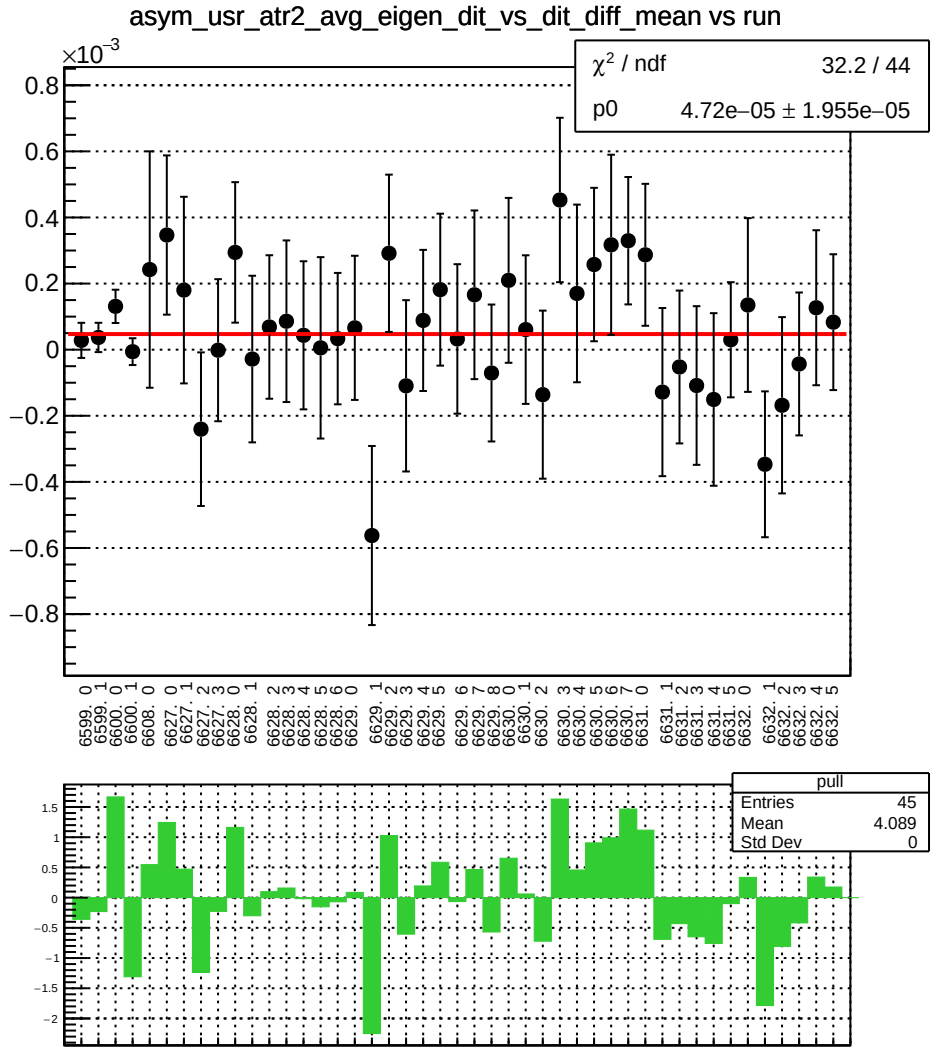
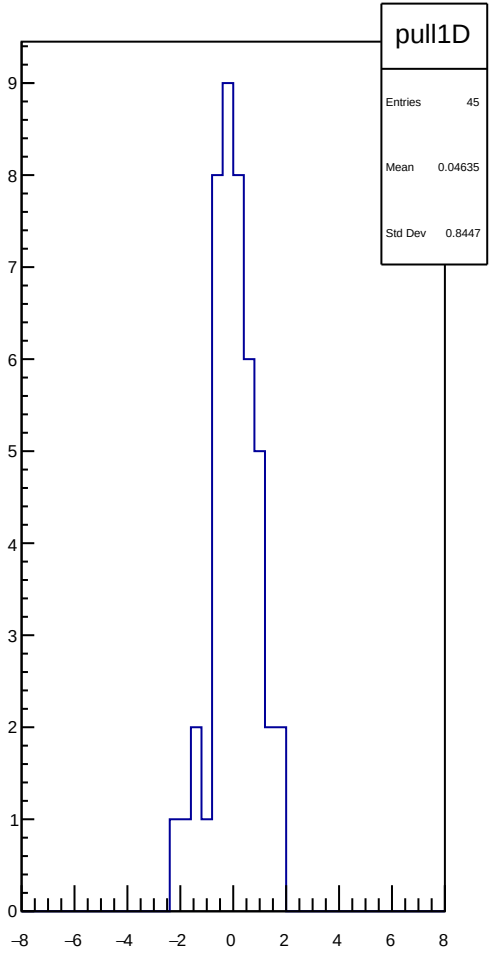
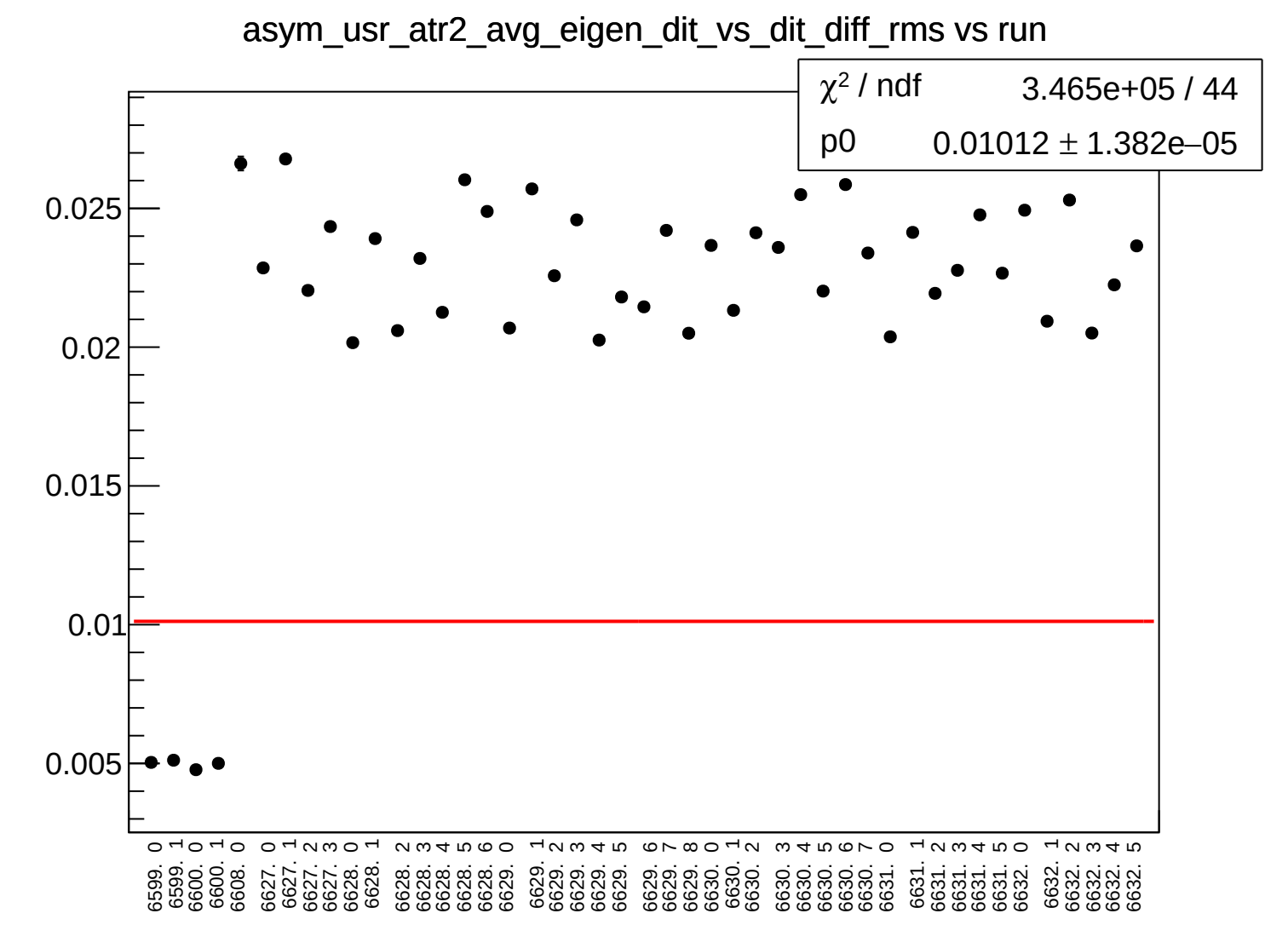
6632. 2
6632. 3
6632. 4
6632. 5


asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 32.2 / 44
p0 4.72e−05 ± 1.955e−05
pull
Entries 45
Mean 4.089
Std Dev 0


pull1D
Entries 45
Mean 0.04635
Std Dev 0.8447


asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.465e+05 / 44
p0 0.01012 ± 1.382e−05
0.025
0.02
0.015
0.01
0.005
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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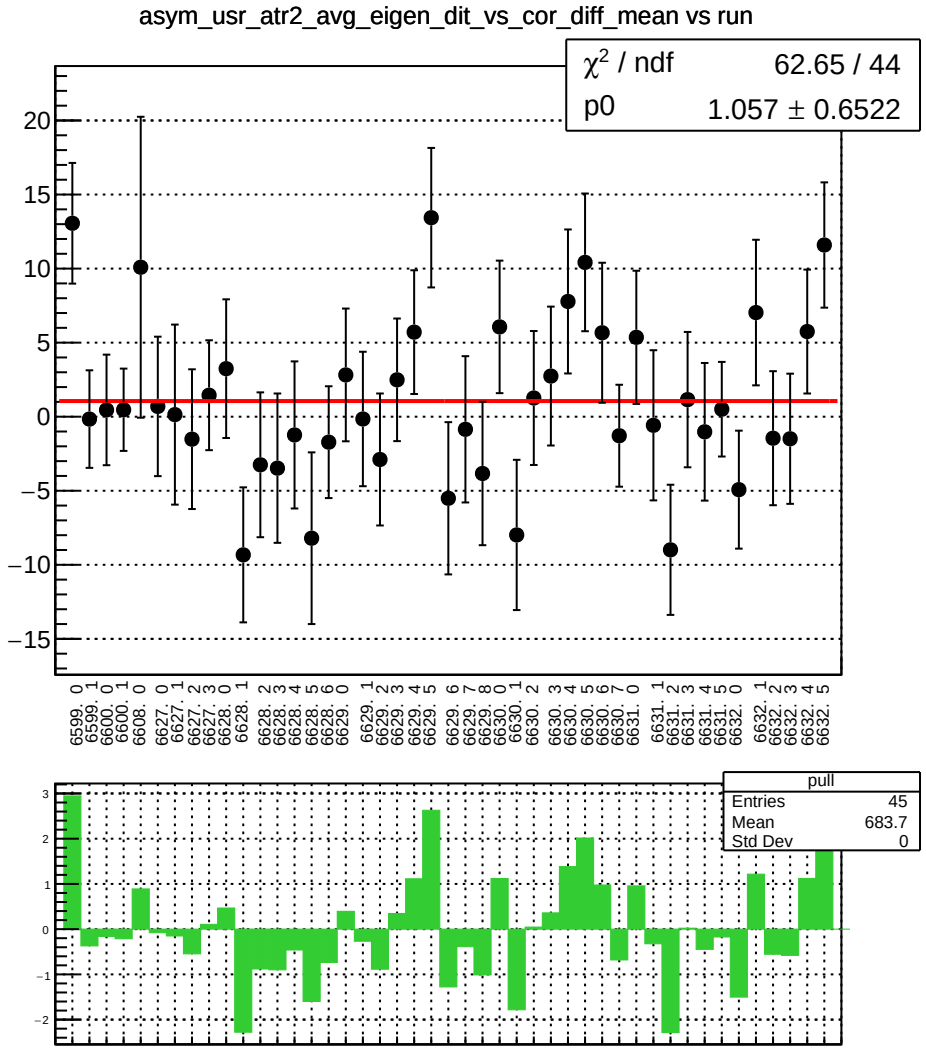
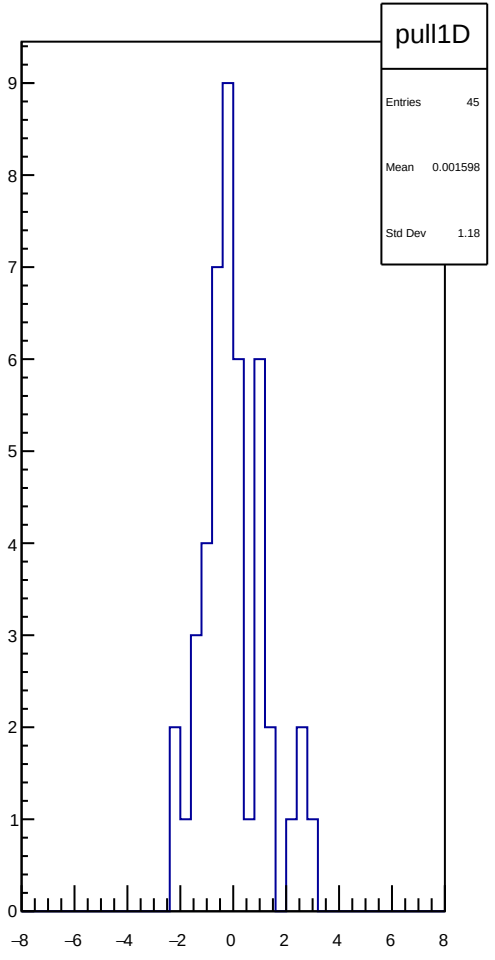
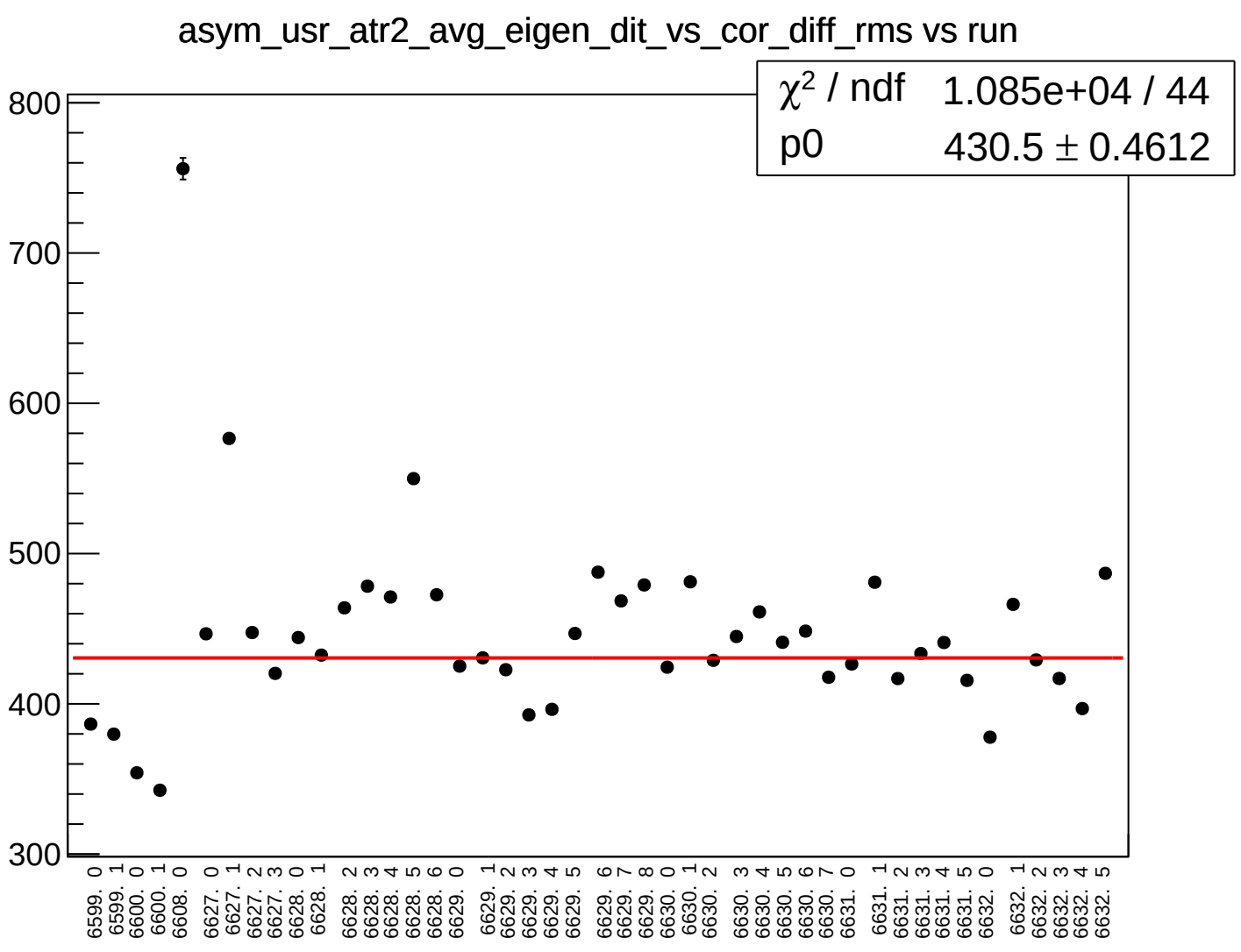
6632. 5


asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 62.65 / 44
p0 1.057 ± 0.6522
pull
Entries 45
Mean 683.7
Std Dev 0


pull1D
Entries 45
Mean 0.001598
Std Dev 1.18


asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.085e+04 / 44
p0 430.5 ± 0.4612
800
700
600
500
400
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
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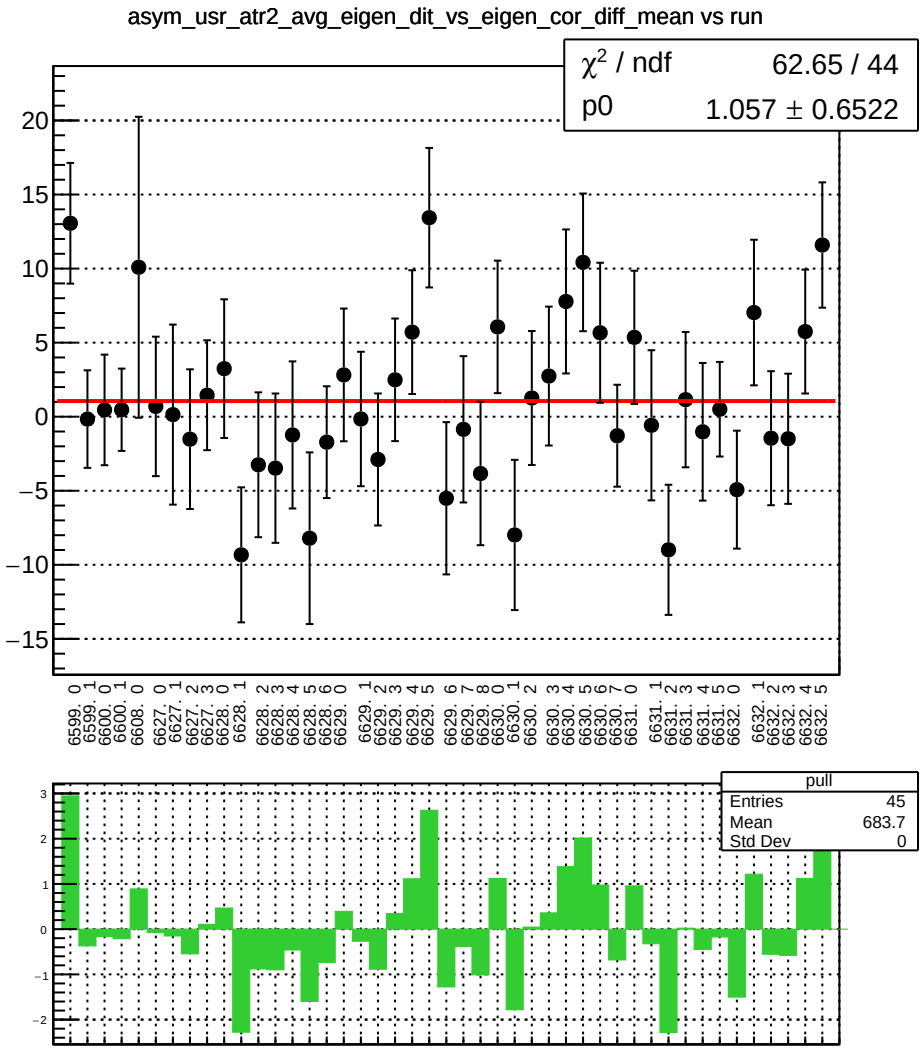
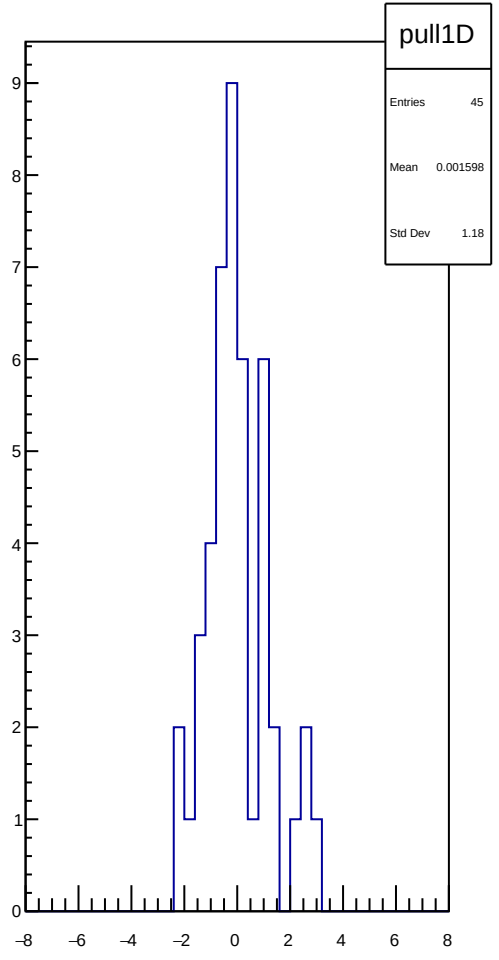
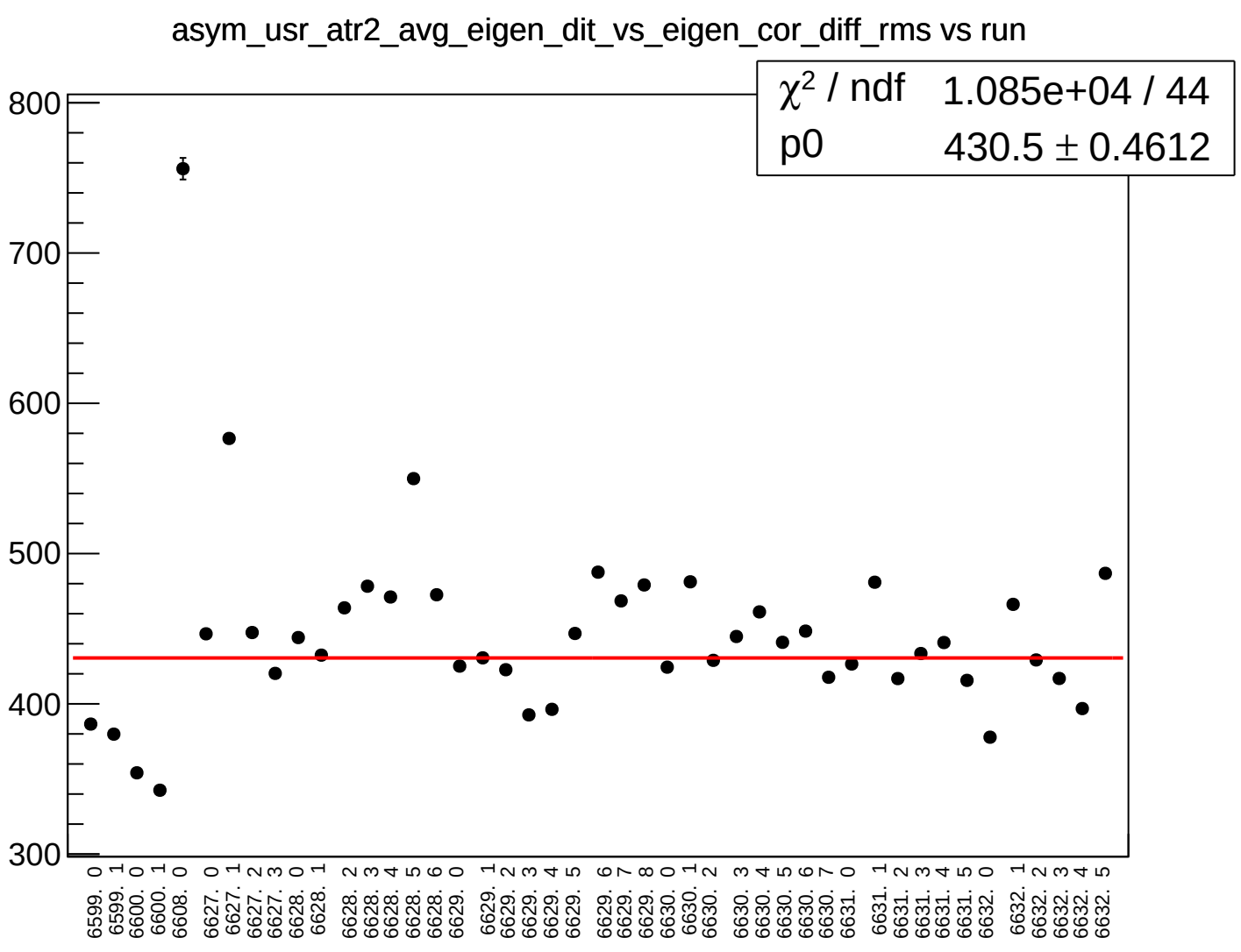
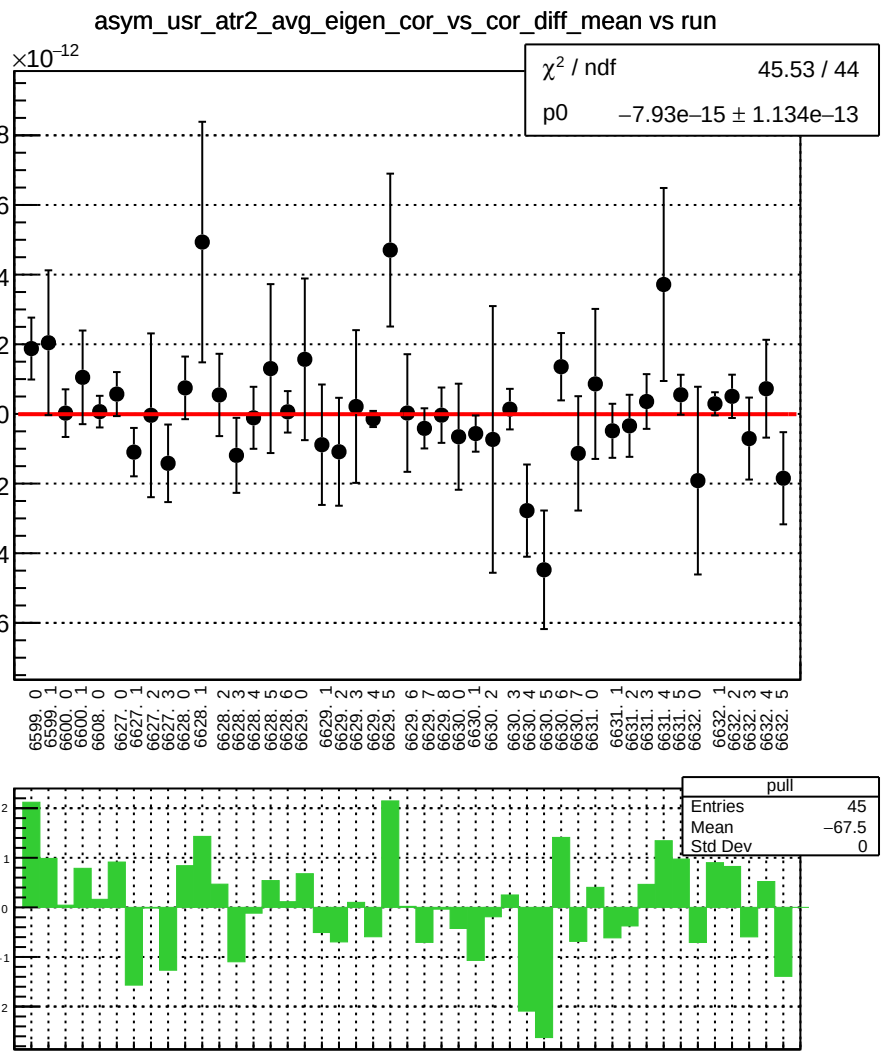
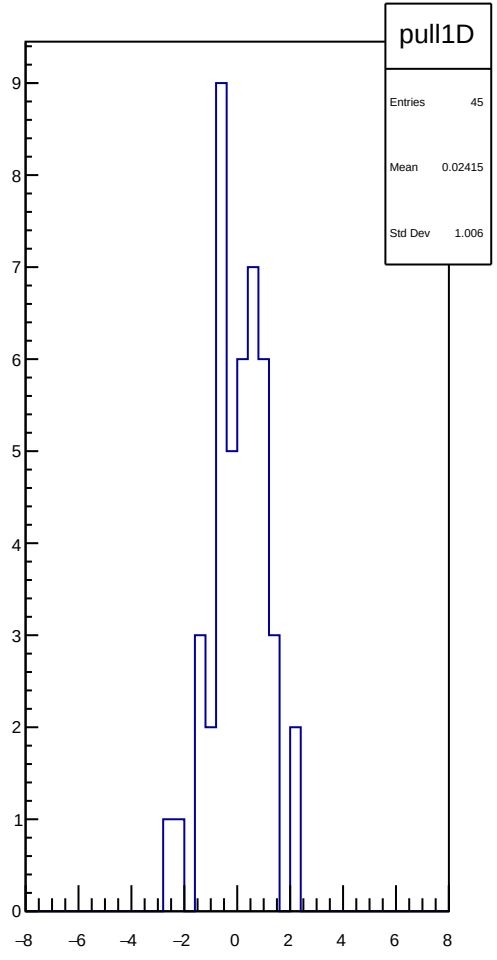
6632. 2
6632. 3
6632. 4
6632. 5

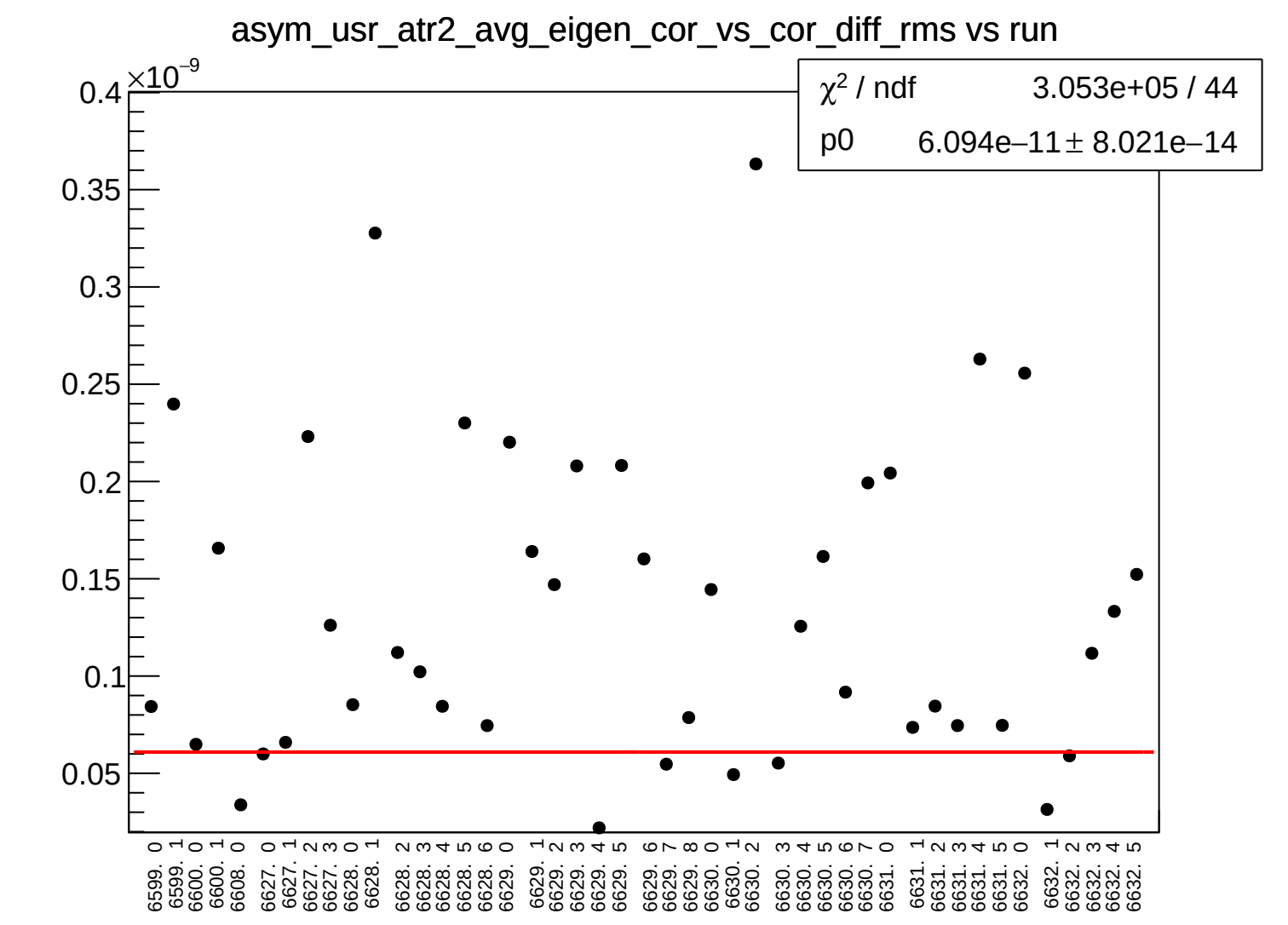

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 62.65 / 44
p0 1.057 ± 0.6522
pull
Entries 45
Mean 683.7
Std Dev 0

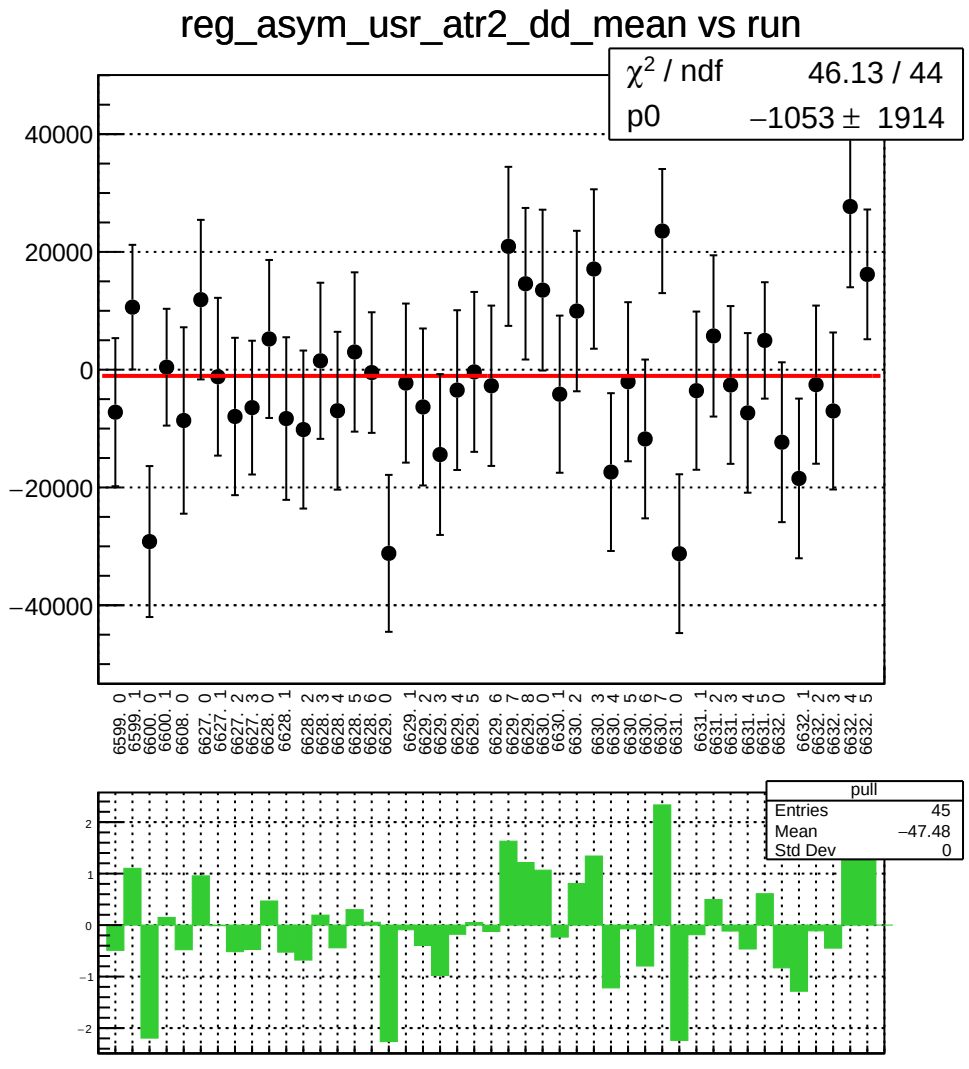

pull1D
Entries 45
Mean 0.001598
Std Dev 1.18

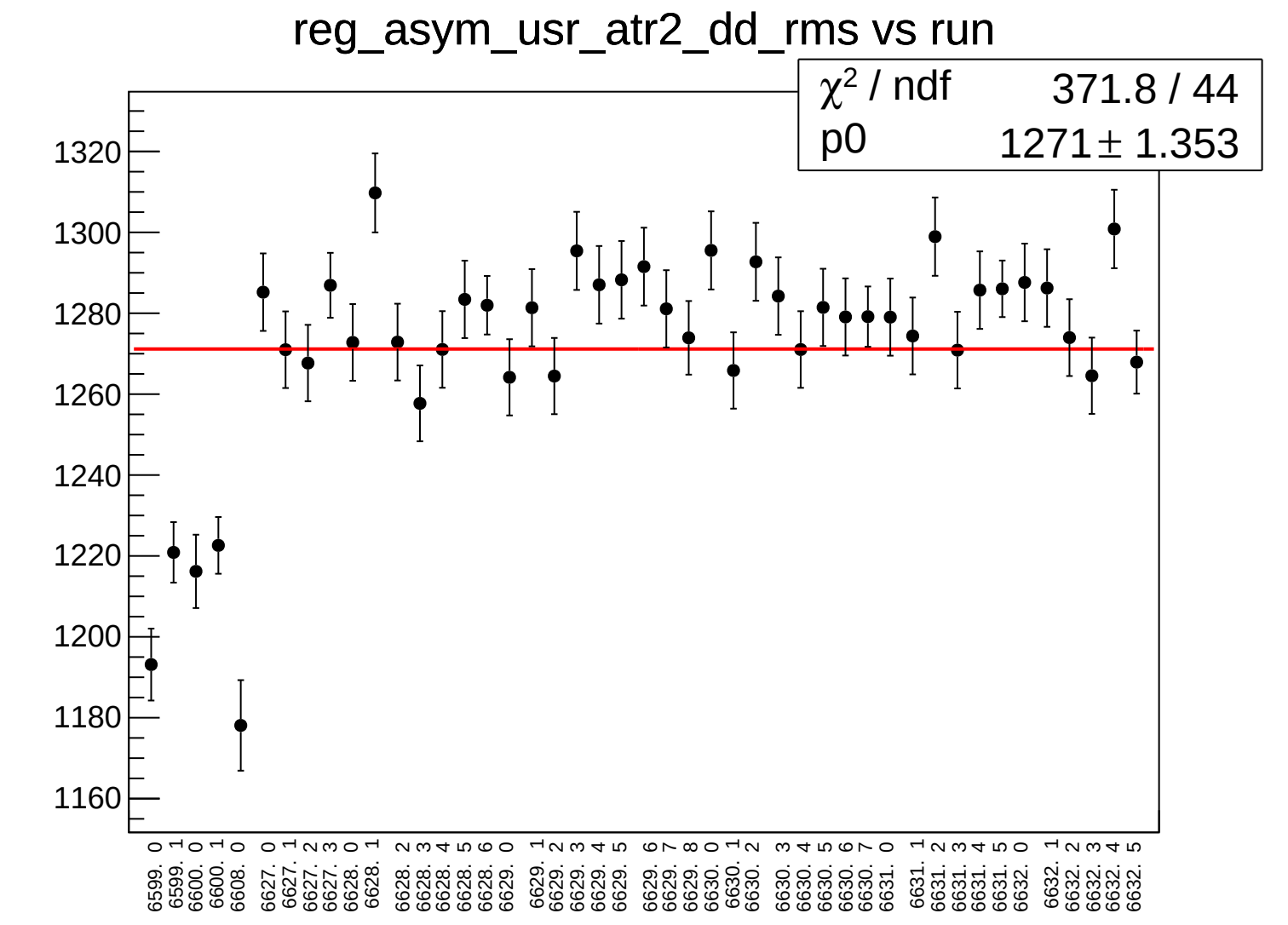

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.085e+04 / 44
p0 430.5 ± 0.4612
800
700
600
500
400
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

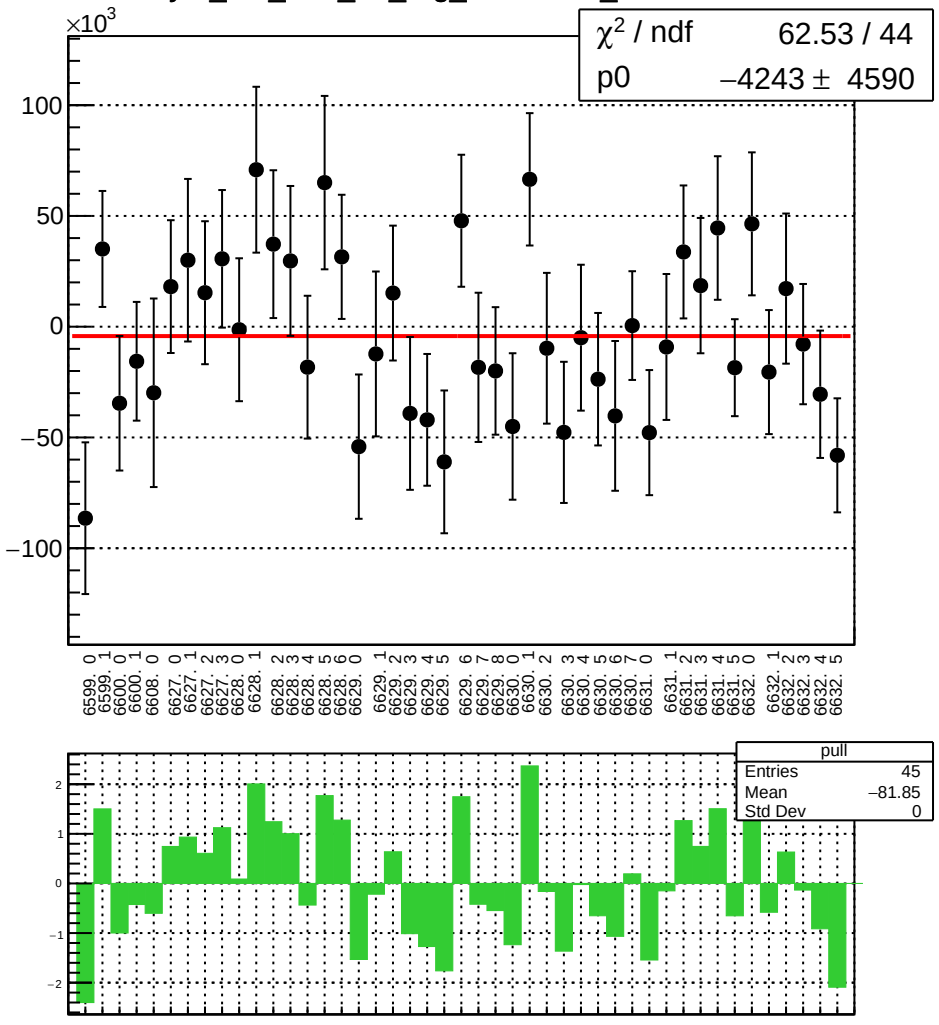

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 45.53 / 44
p0 −7.93e−15 ± 1.134e−13
pull
Entries 45
Mean −67.5
Std Dev 0

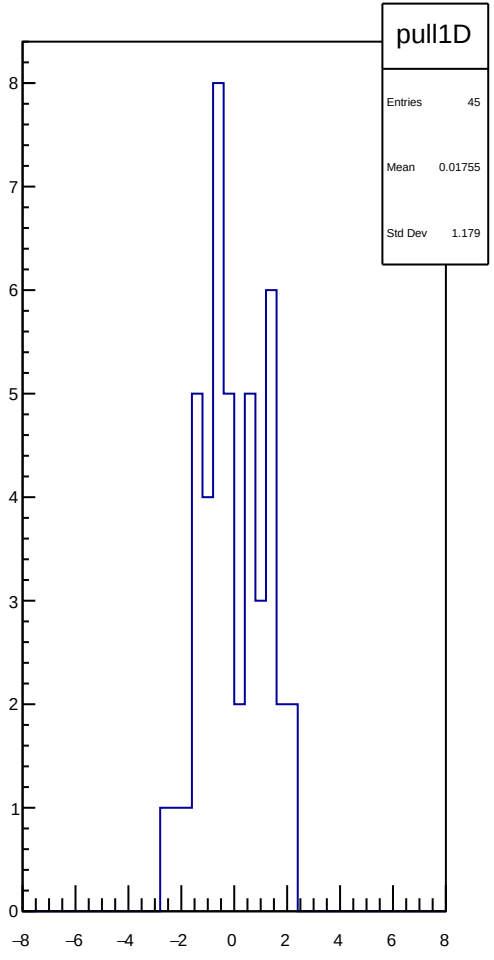

pull1D
Entries 45
Mean 0.02415
Std Dev 1.006

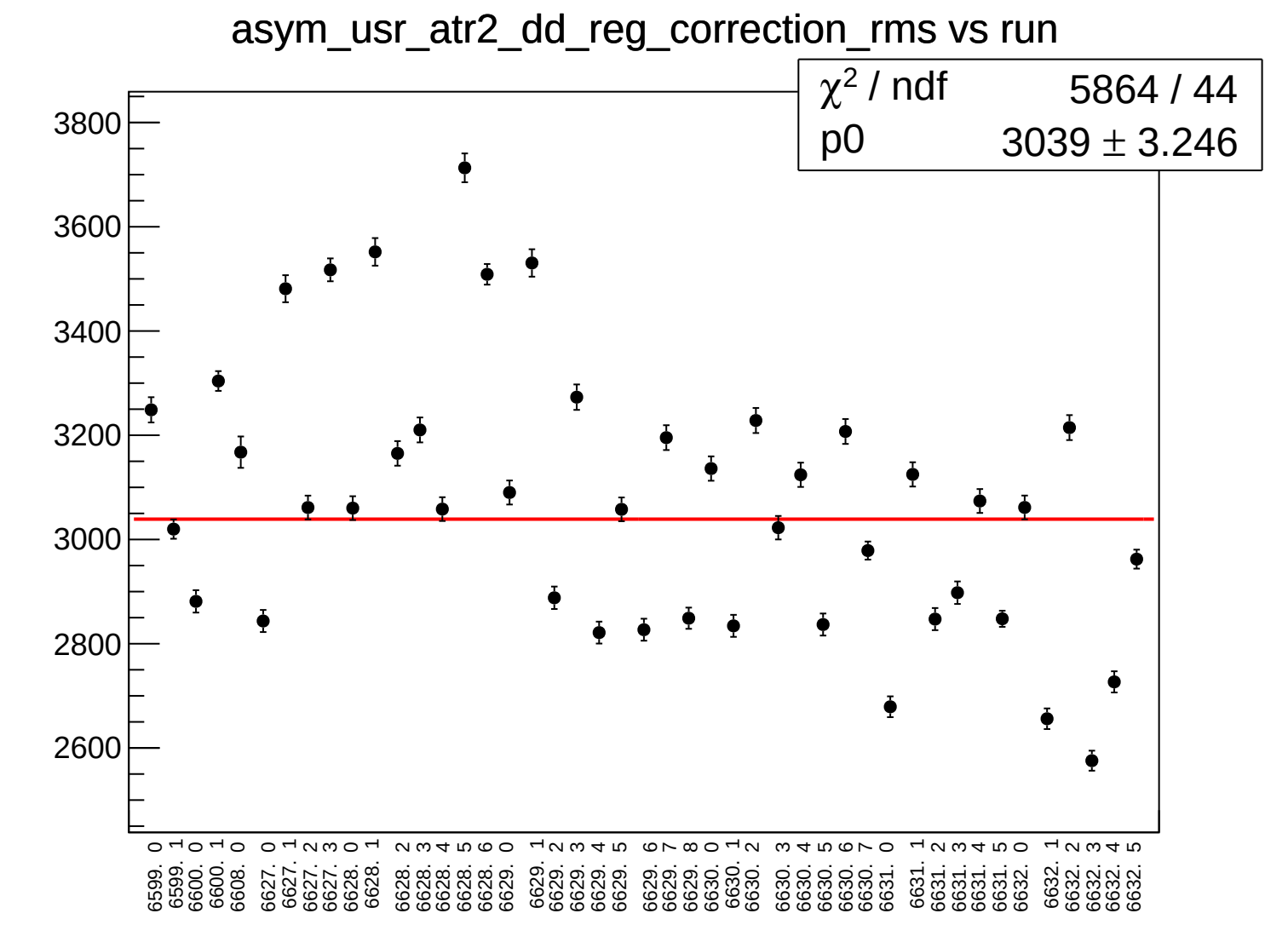

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
$\chi^2$ / ndf 3.053e+05 / 44
p0 6.094e−11 ± 8.021e−14
×10⁻⁹
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

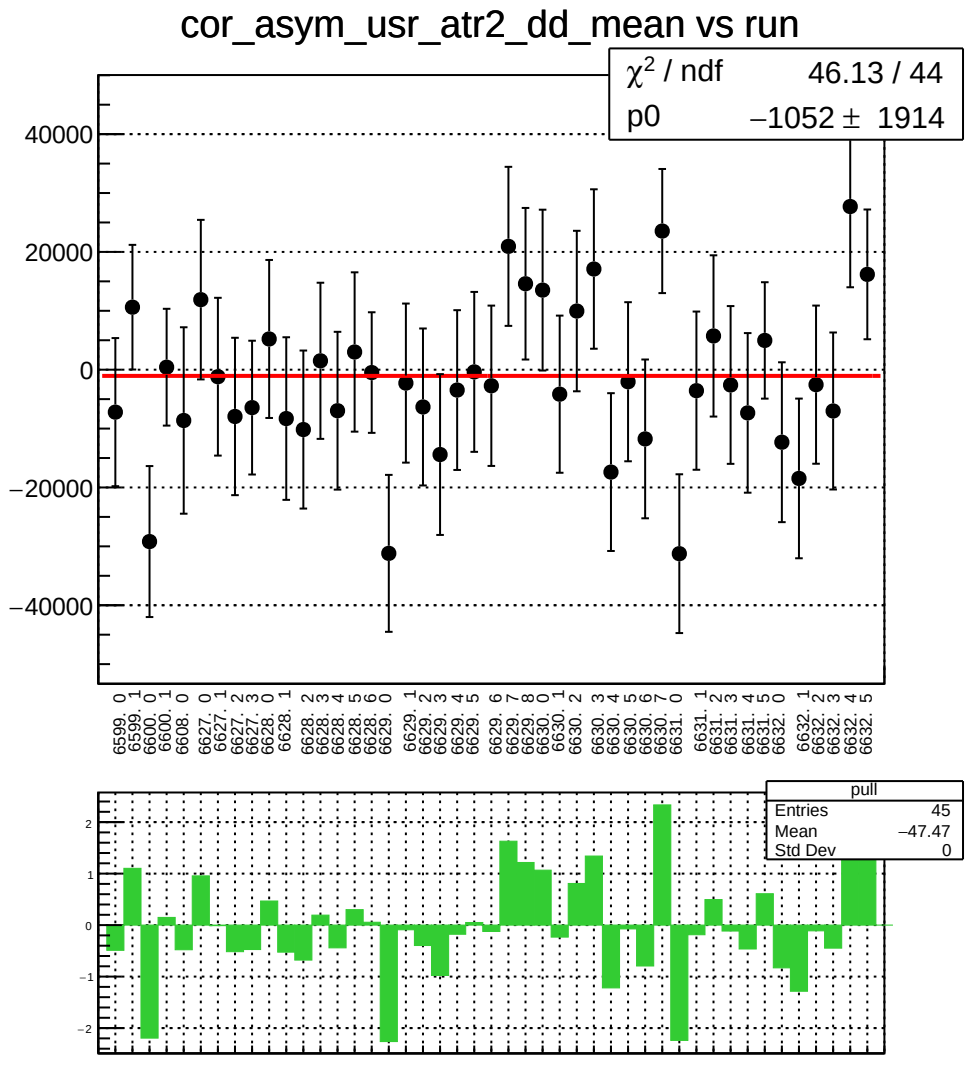

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 46.13 / 44
p0 −1053 ± 1914
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −47.48
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.03107
Std Dev 1.012
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

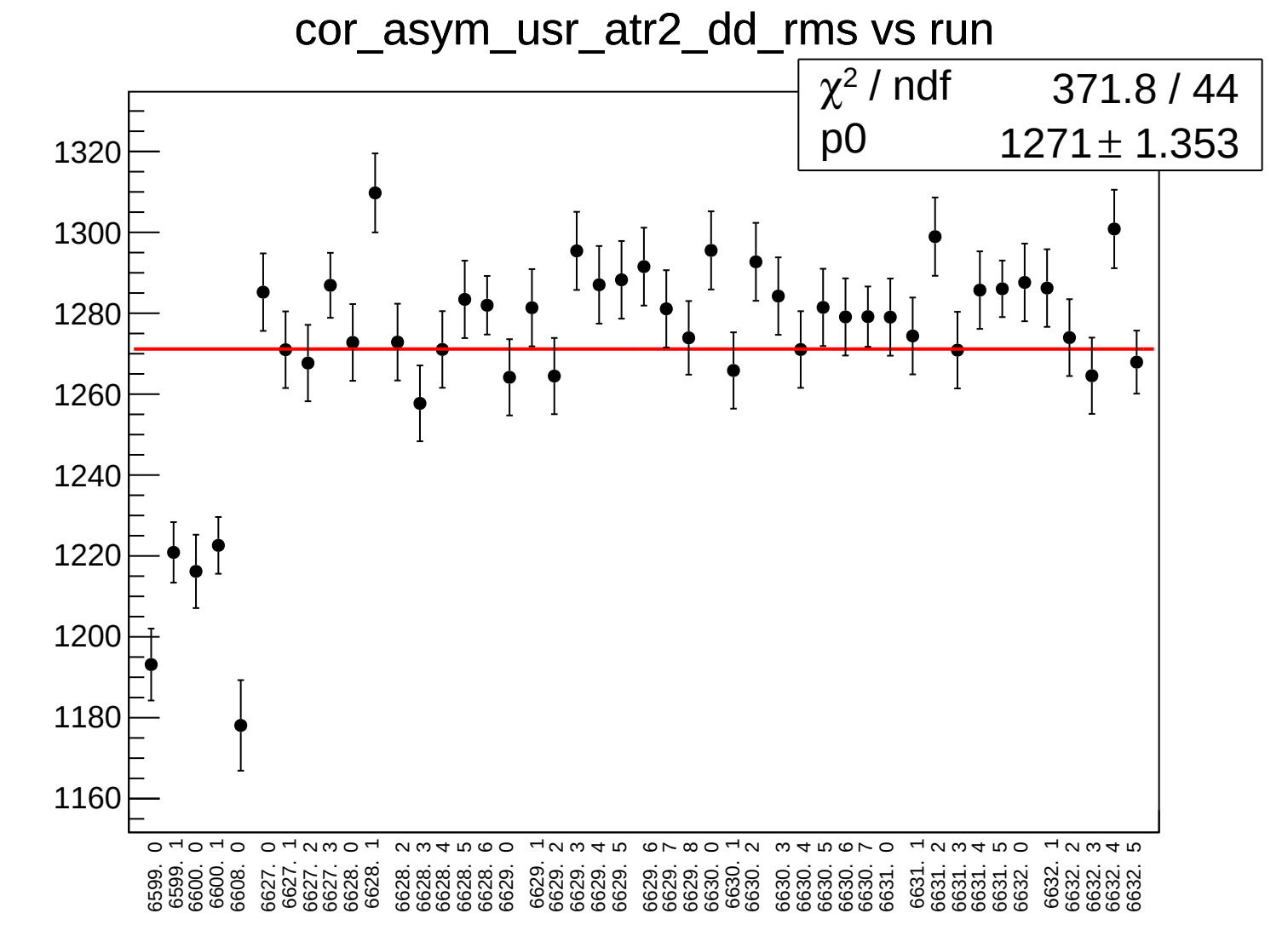

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 371.8 / 44
p0 1271 ± 1.353
1320
1300
1280
1260
1240
1220
1200
1180
1160
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 62.53 / 44
p0 −4243 ± 4590
100
50
0
−50
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −81.85
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.01755
Std Dev 1.179
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 5864 / 44
p0 3039 ± 3.246
3800
3600
3400
3200
3000
2800
2600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 46.13 / 44
p0 −1052 ± 1914
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −47.47
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.03107
Std Dev 1.012
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 371.8 / 44
p0 1271 ± 1.353
1320
1300
1280
1260
1240
1220
1200
1180
1160
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 3
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6628. 6
6629. 0
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6629. 2
6629. 3
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6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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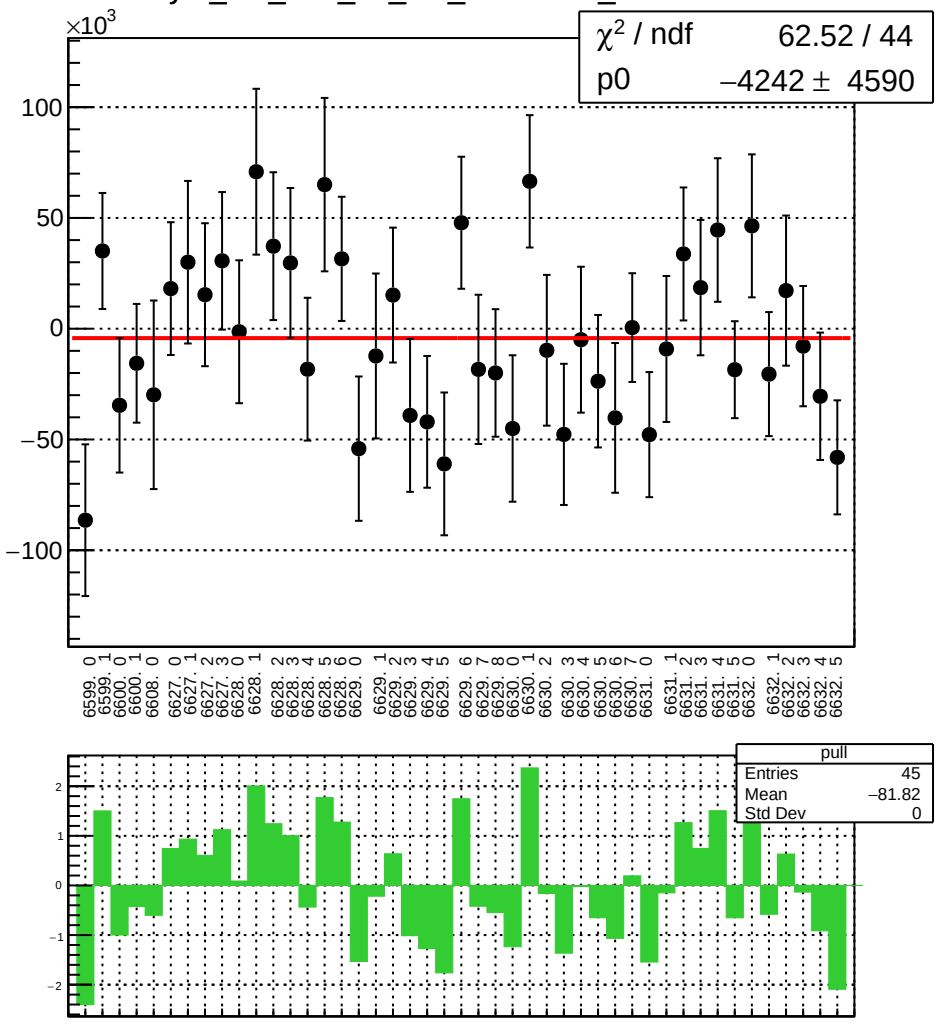
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 62.52 / 44
p0 −4242 ± 4590
100
50
0
−50
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
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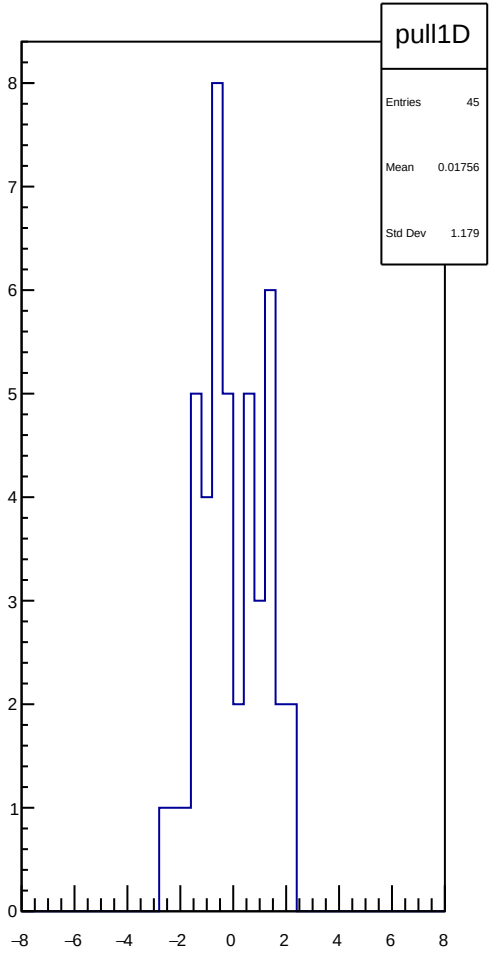
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −81.82
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.01756
Std Dev 1.179
8
7
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5
4
3
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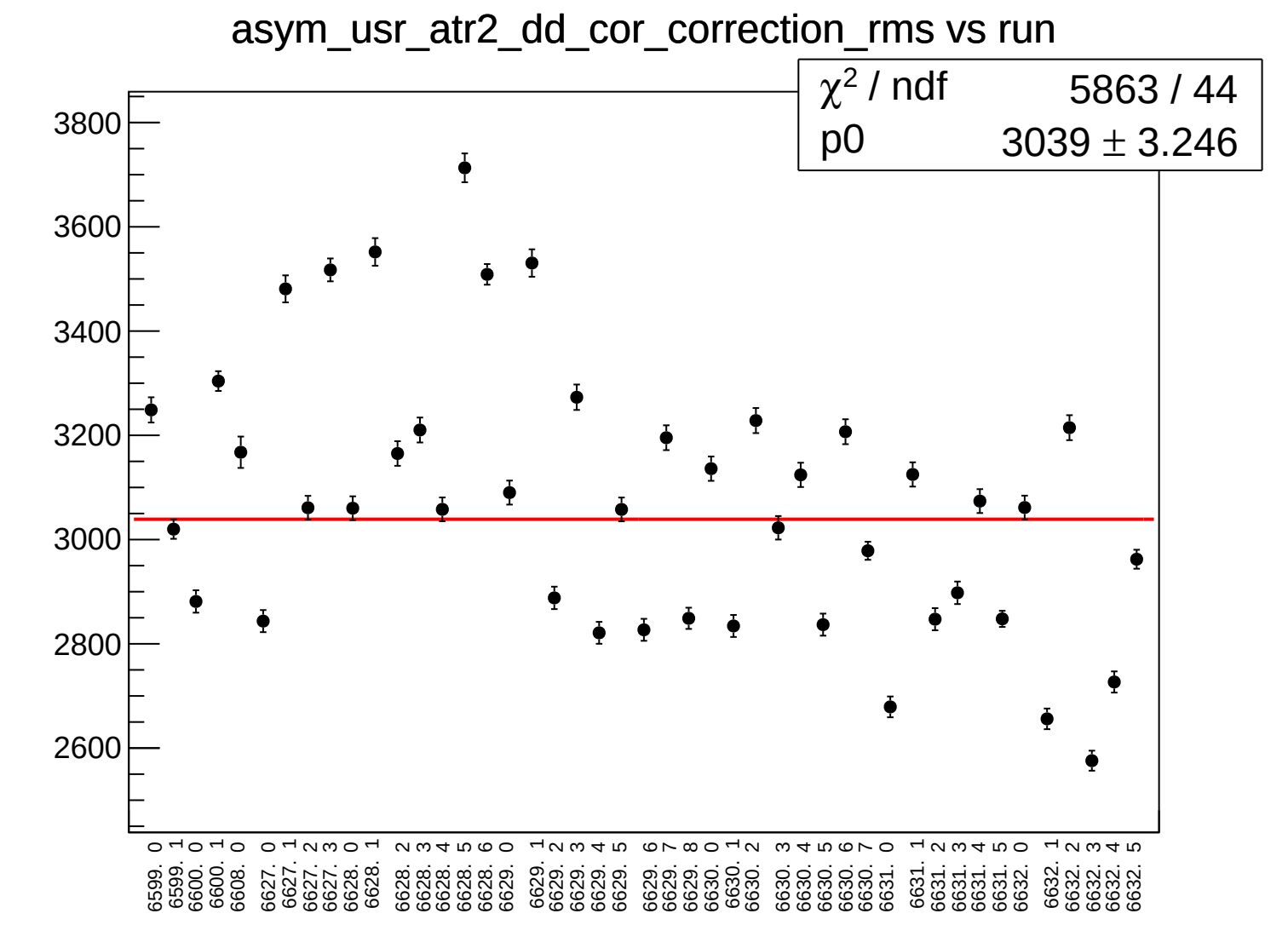
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 5863 / 44
p0 3039 ± 3.246
3800
3600
3400
3200
3000
2800
2600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 2
6627. 3
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6629. 7
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6630. 2
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6630. 5
6630. 6
6630. 7
6631. 0
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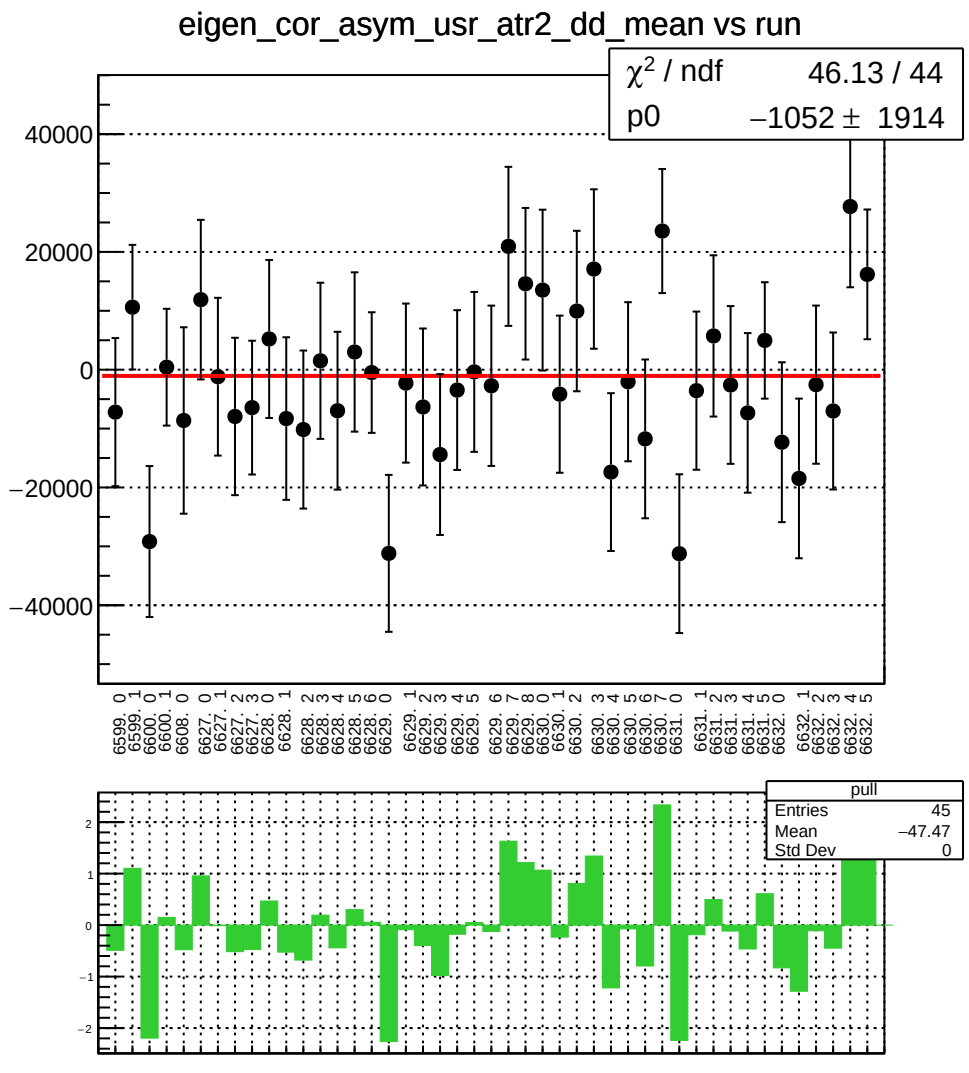
6632. 4
6632. 5


eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 46.13 / 44
p0 −1052 ± 1914
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6628. 4
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6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
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6630. 1
6630. 2
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6630. 6
6630. 7
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −47.47
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.03107
Std Dev 1.012
10
8
6
4
2
0
−8
−6
−4
−2
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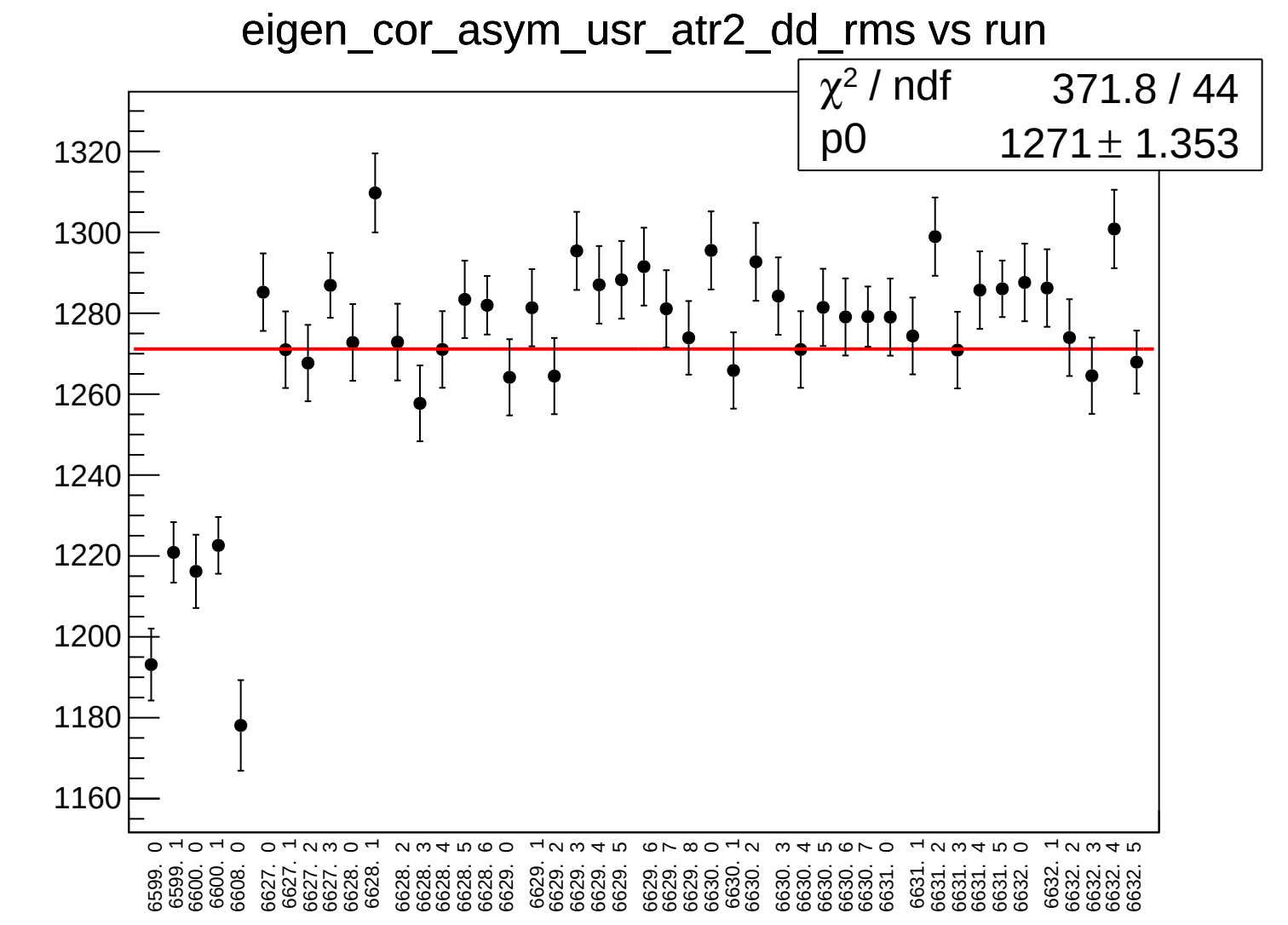
2
4
6
8


eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 371.8 / 44
p0 1271 ± 1.353
1320
1300
1280
1260
1240
1220
1200
1180
1160
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 2
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6630. 1
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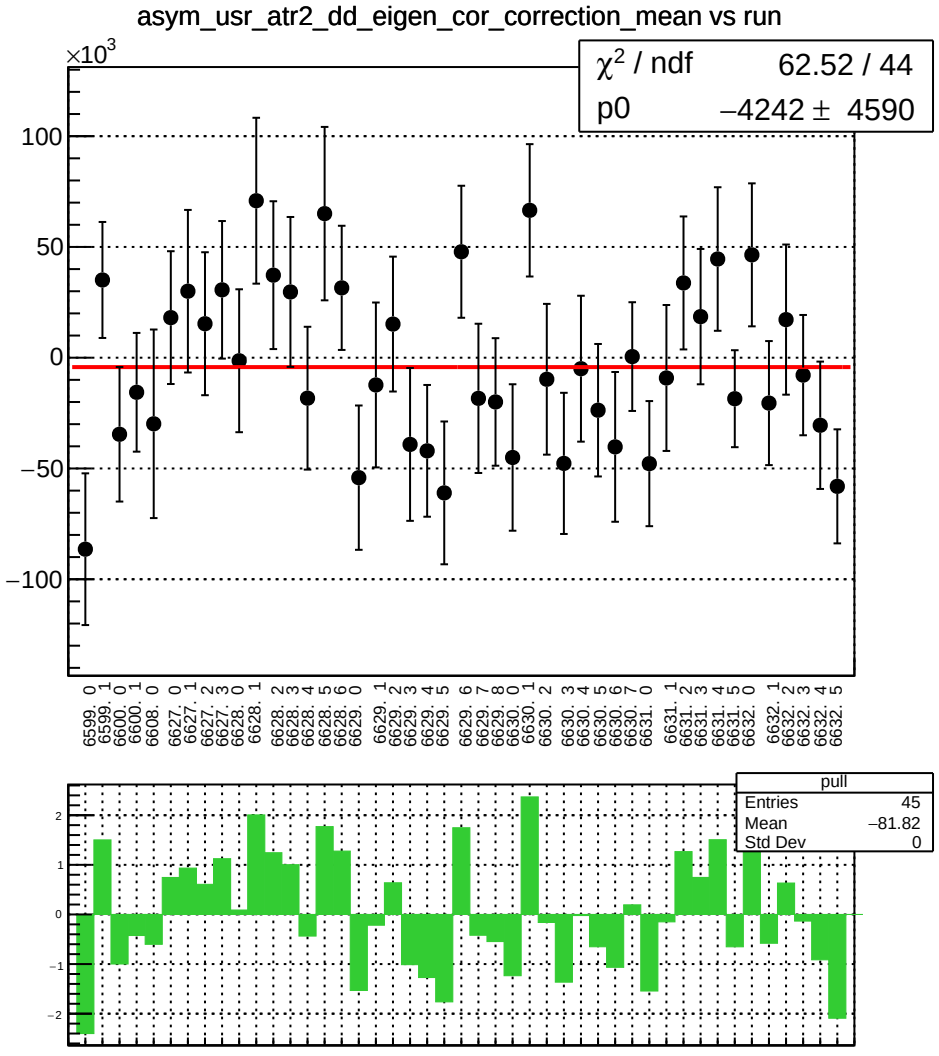
6632. 4
6632. 5


asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 62.52 / 44
p0 −4242 ± 4590
100
50
0
−50
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
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6628. 6
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6629. 2
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6629. 4
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6629. 7
6629. 8
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6630. 1
6630. 2
6630. 3
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6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −81.82
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01756
Std Dev 1.179
8
7
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5
4
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1
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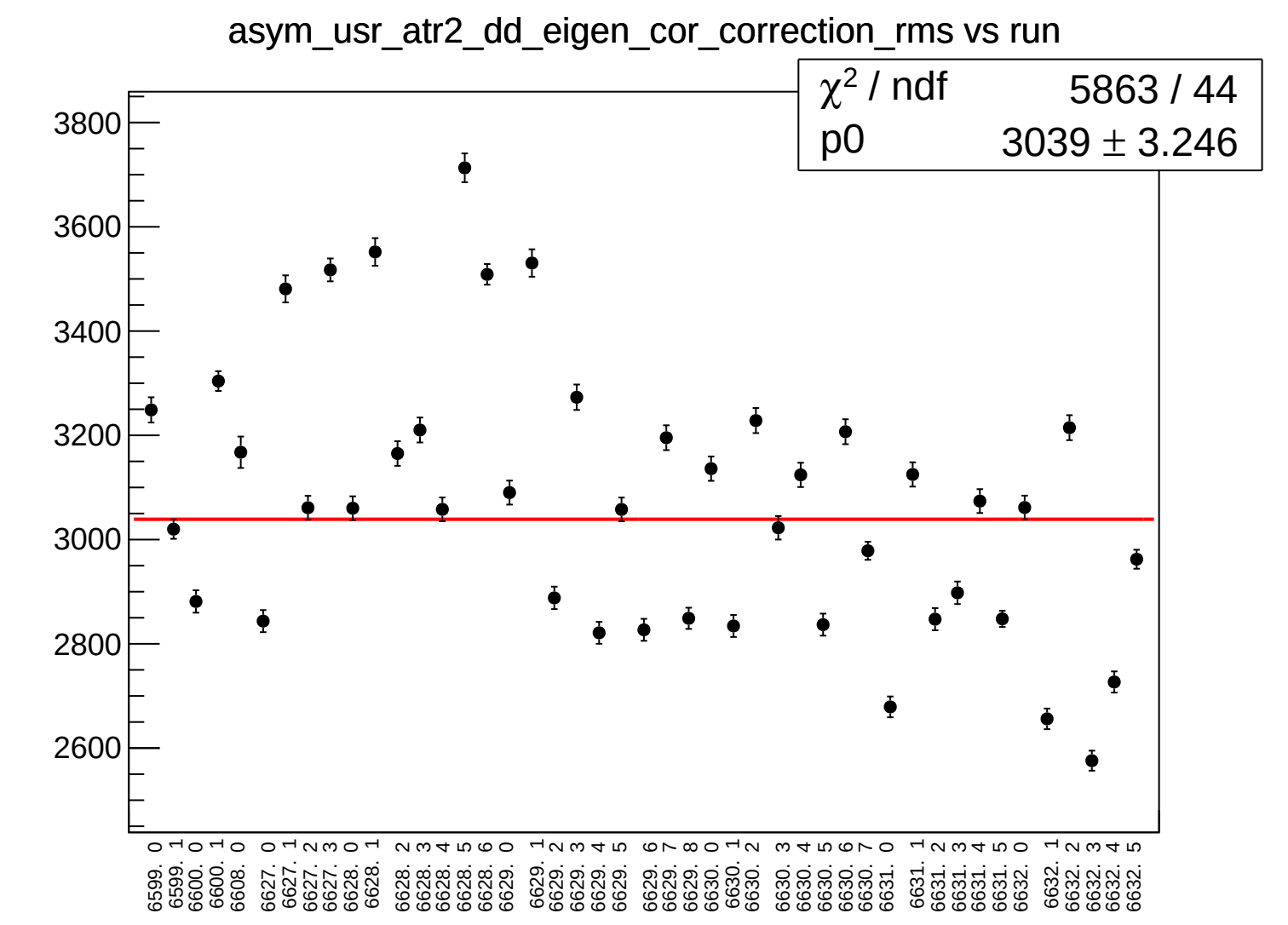
−4
−2
0
2
4
6
8


asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 5863 / 44
p0 3039 ± 3.246
3800
3600
3400
3200
3000
2800
2600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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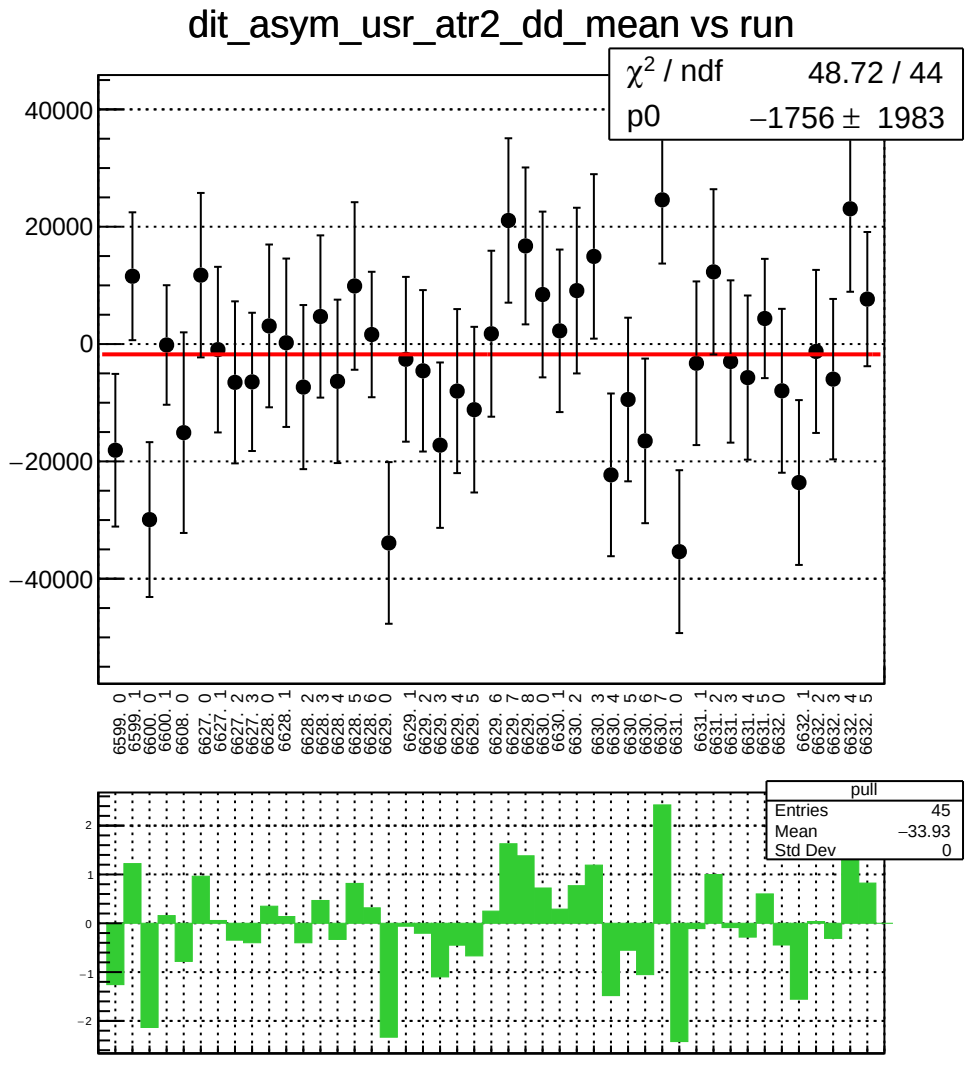
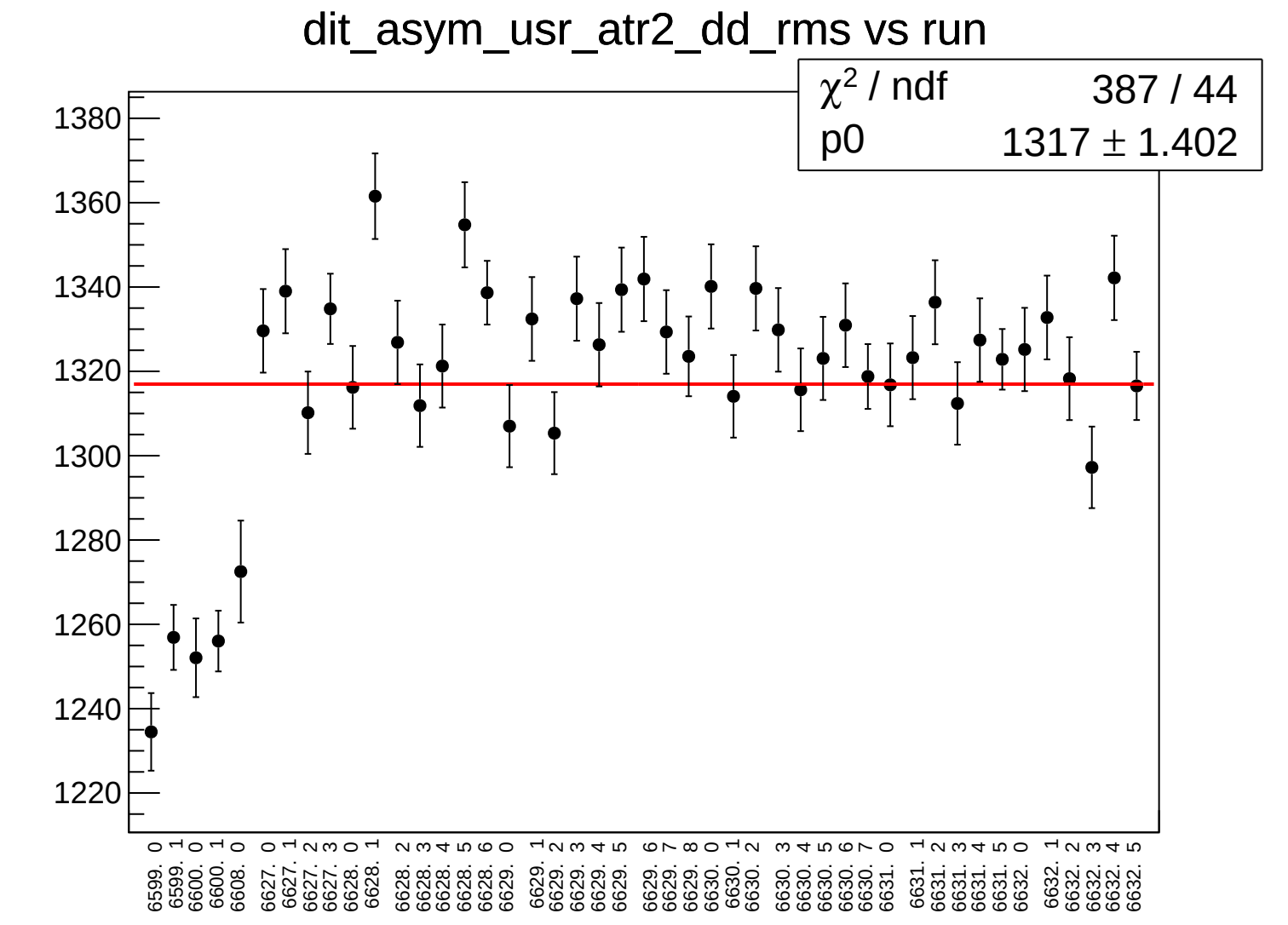
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 48.72 / 44
p0 −1756 ± 1983
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −33.93
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.03099
Std Dev 1.04
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 387 / 44
p0 1317 ± 1.402
1380
1360
1340
1320
1300
1280
1260
1240
1220
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
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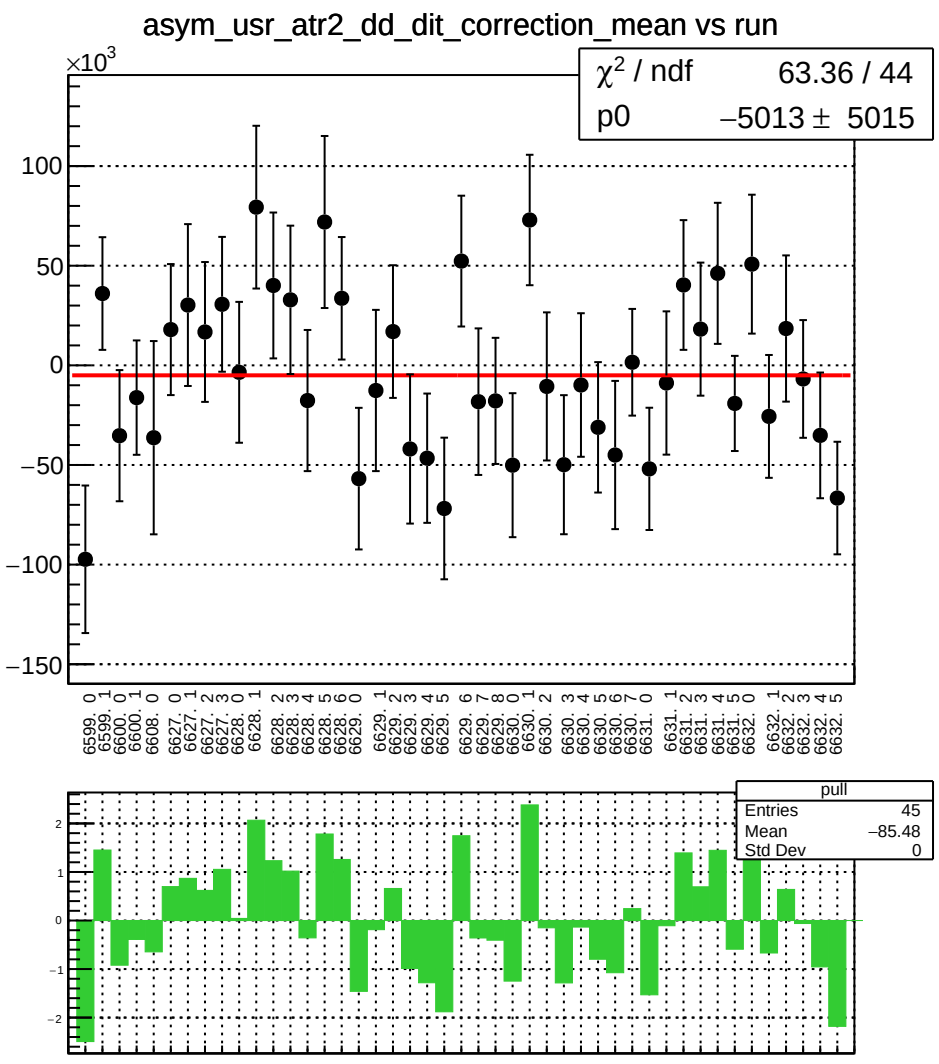
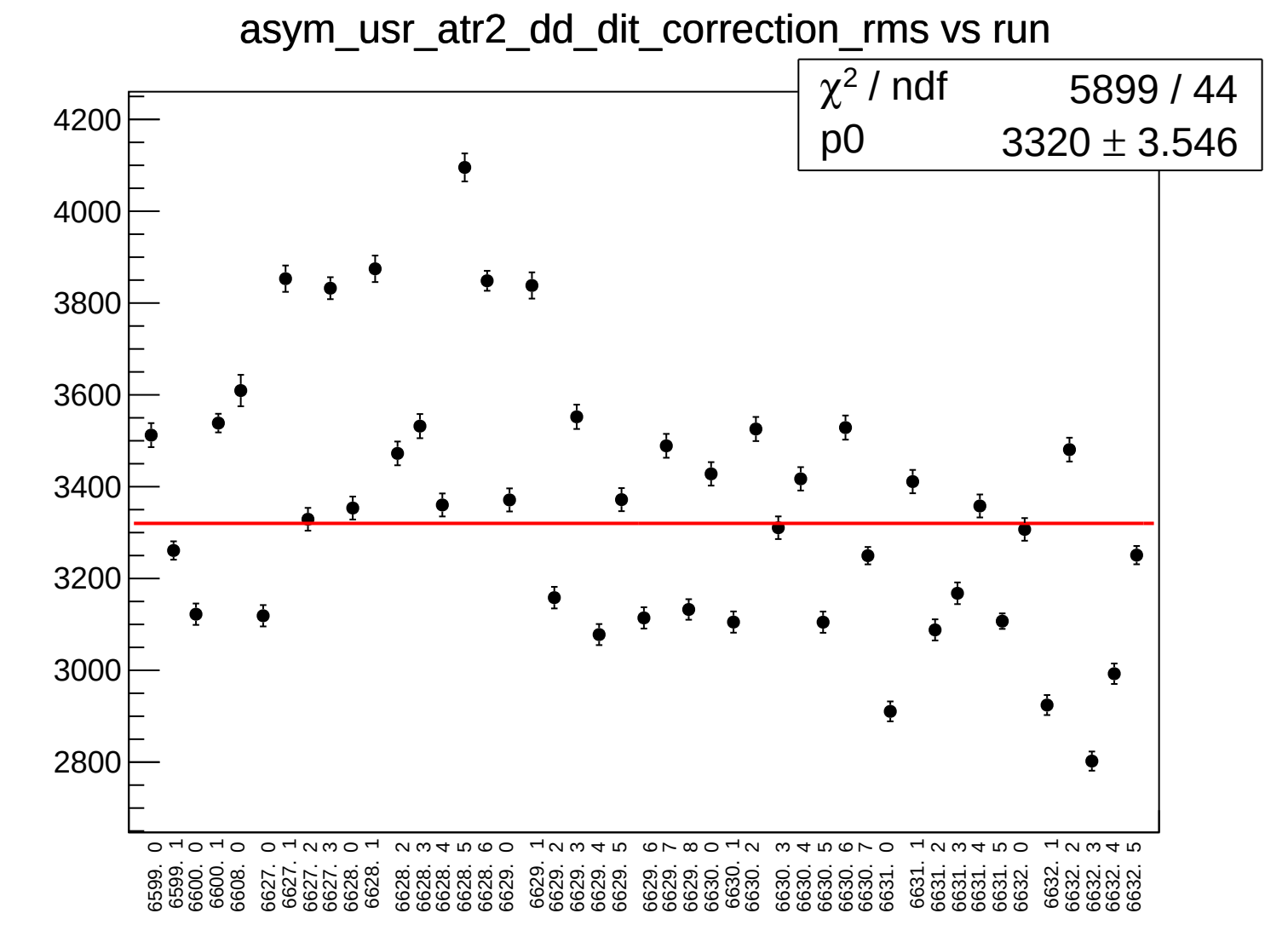
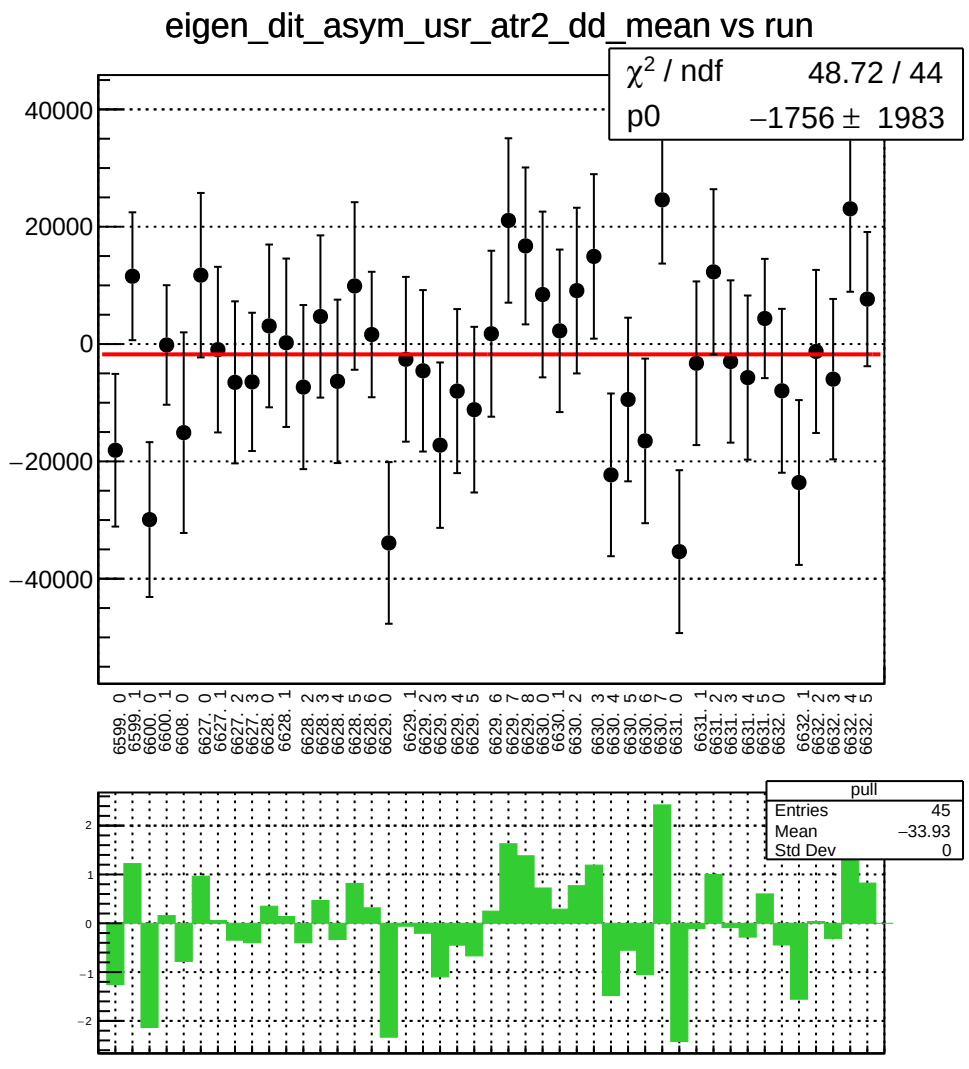
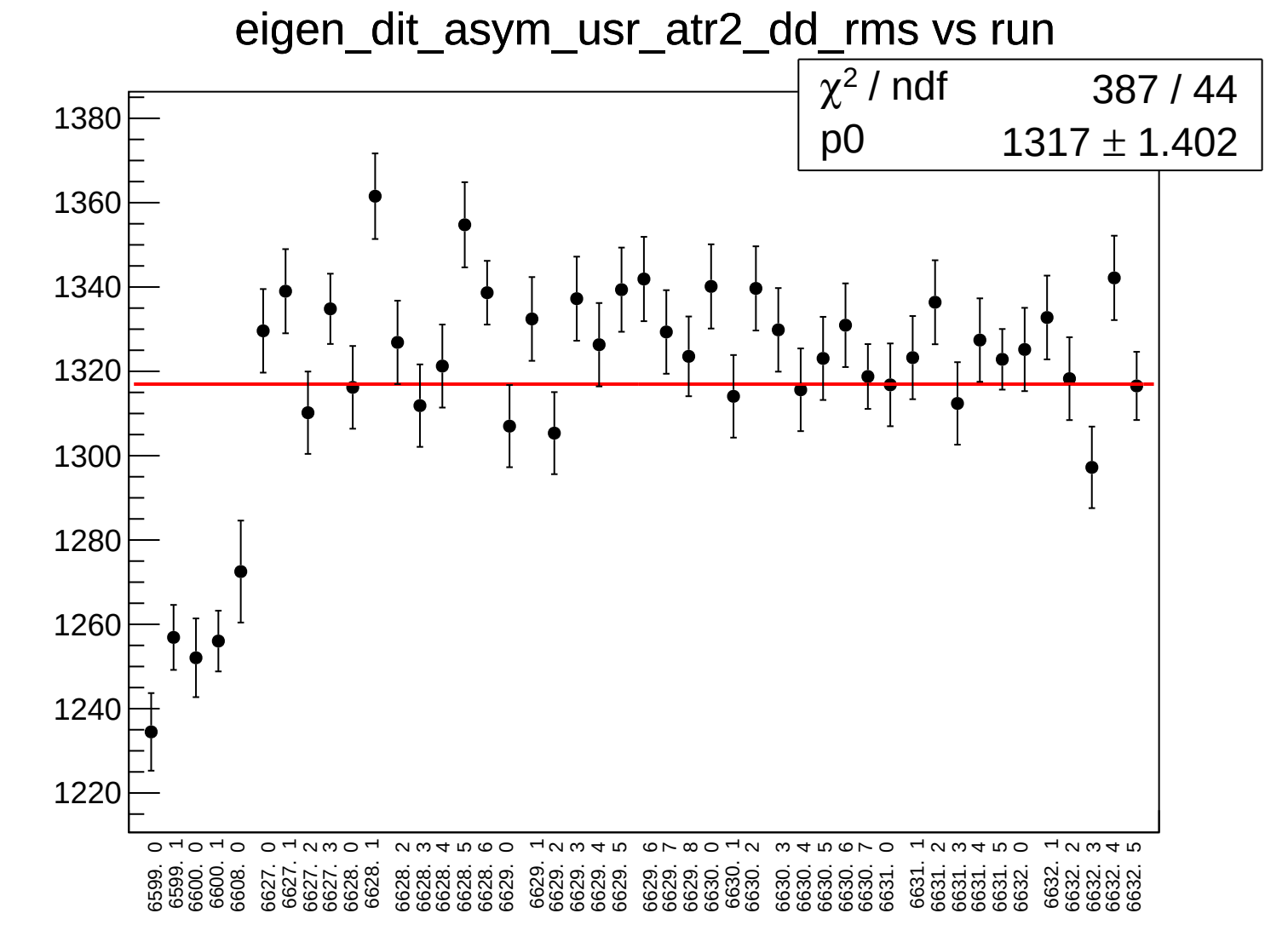
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 63.36 / 44
p0 −5013 ± 5015
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −85.48
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01664
Std Dev 1.187
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 5899 / 44
p0 3320 ± 3.546
4200
4000
3800
3600
3400
3200
3000
2800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 48.72 / 44
p0 −1756 ± 1983
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −33.93
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.03099
Std Dev 1.04
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 387 / 44
p0 1317 ± 1.402
1380
1360
1340
1320
1300
1280
1260
1240
1220
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
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6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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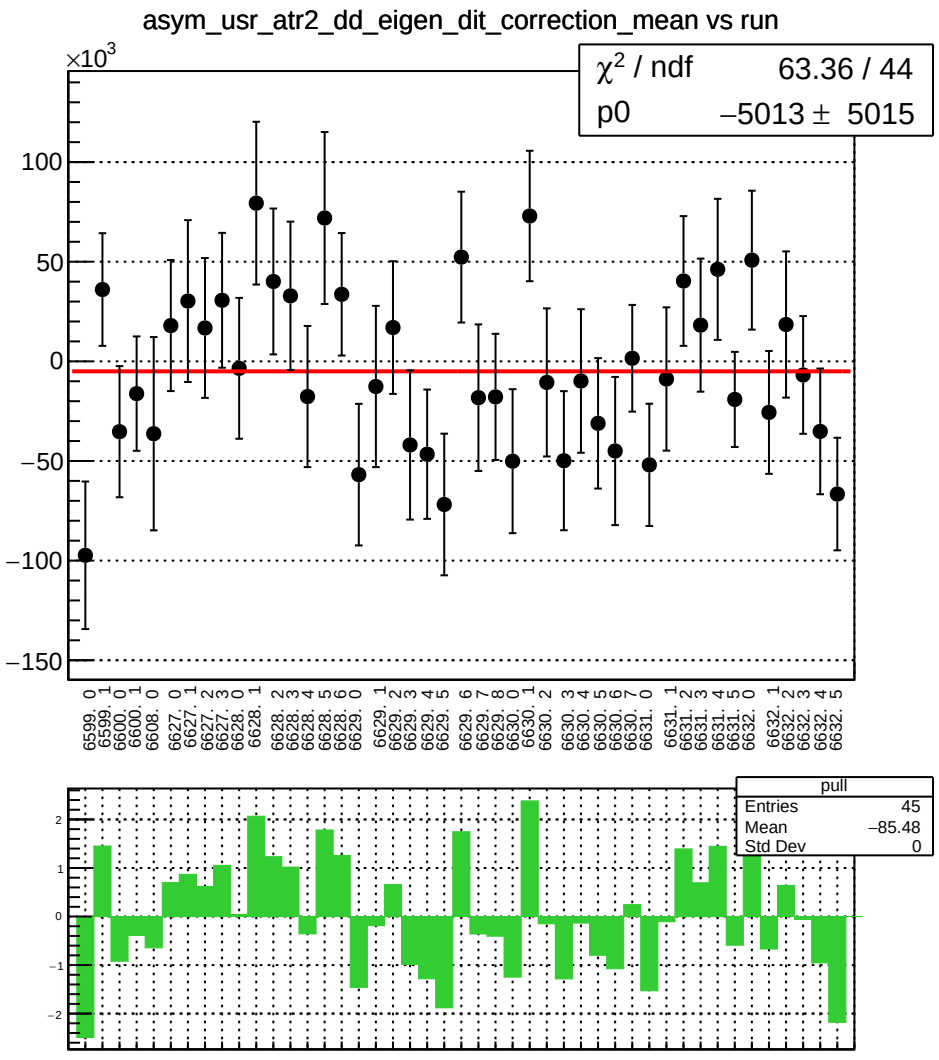
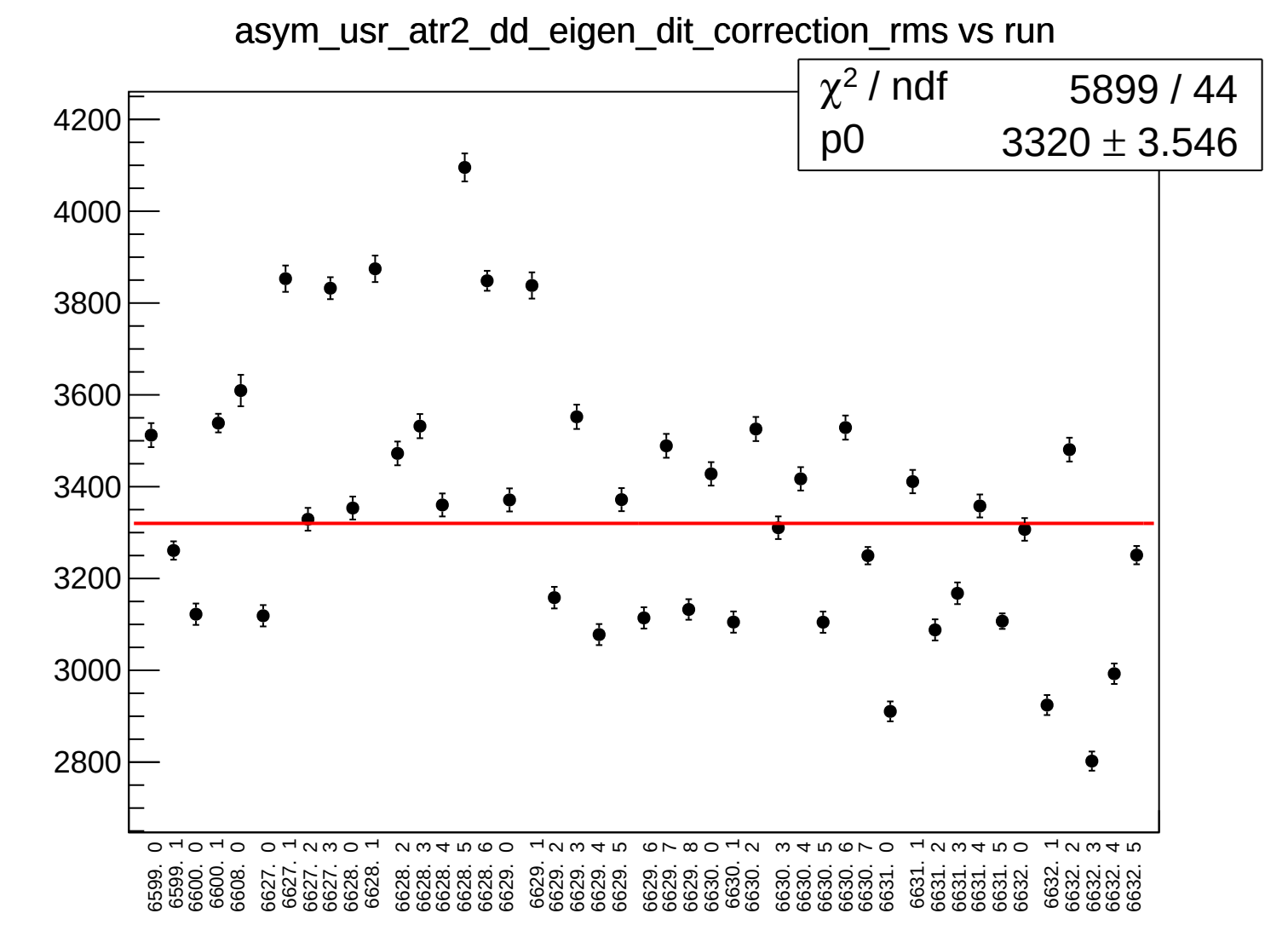
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 63.36 / 44
p0 −5013 ± 5015
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −85.48
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01664
Std Dev 1.187
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 5899 / 44
p0 3320 ± 3.546
4200
4000
3800
3600
3400
3200
3000
2800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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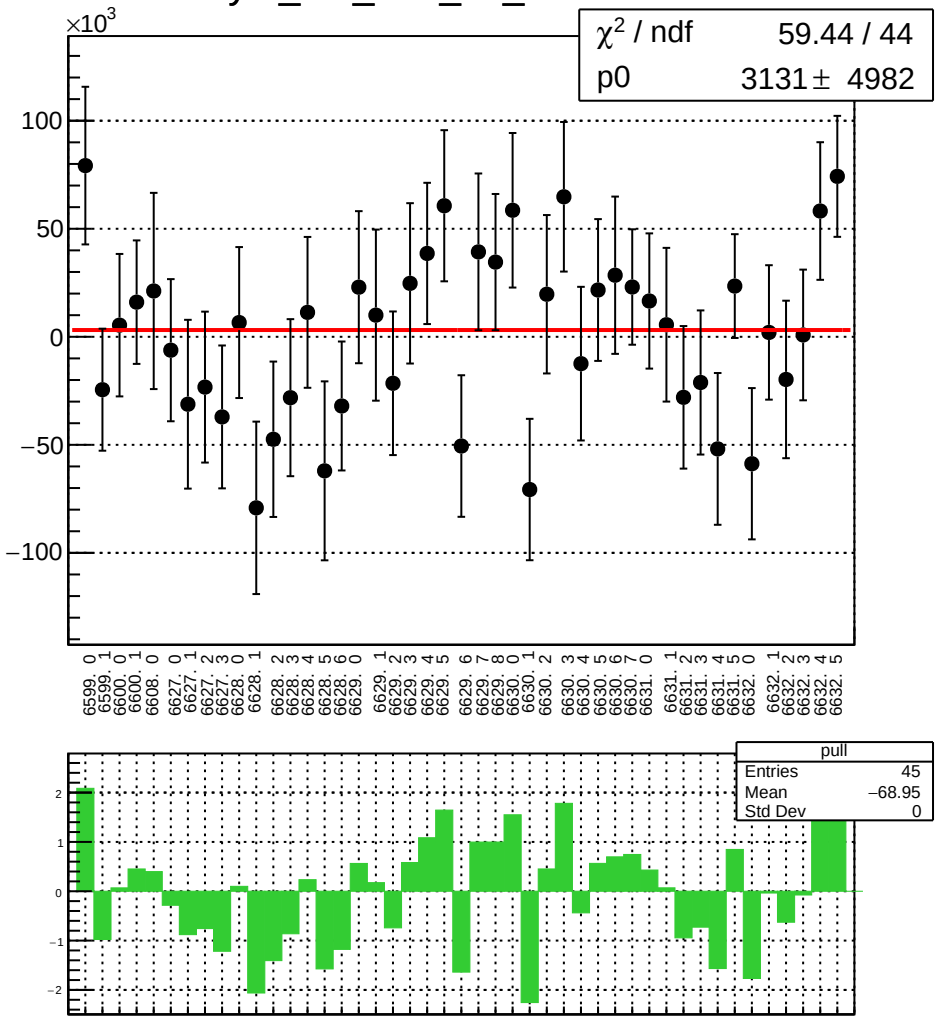
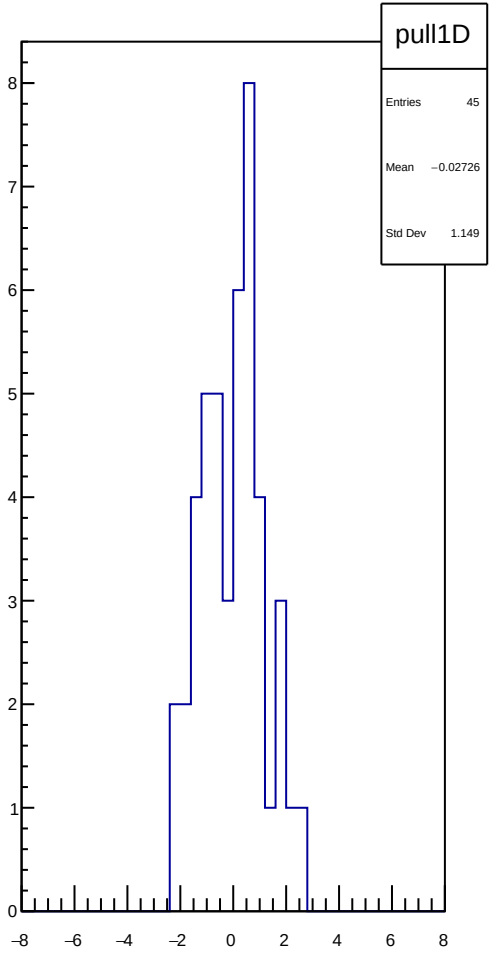
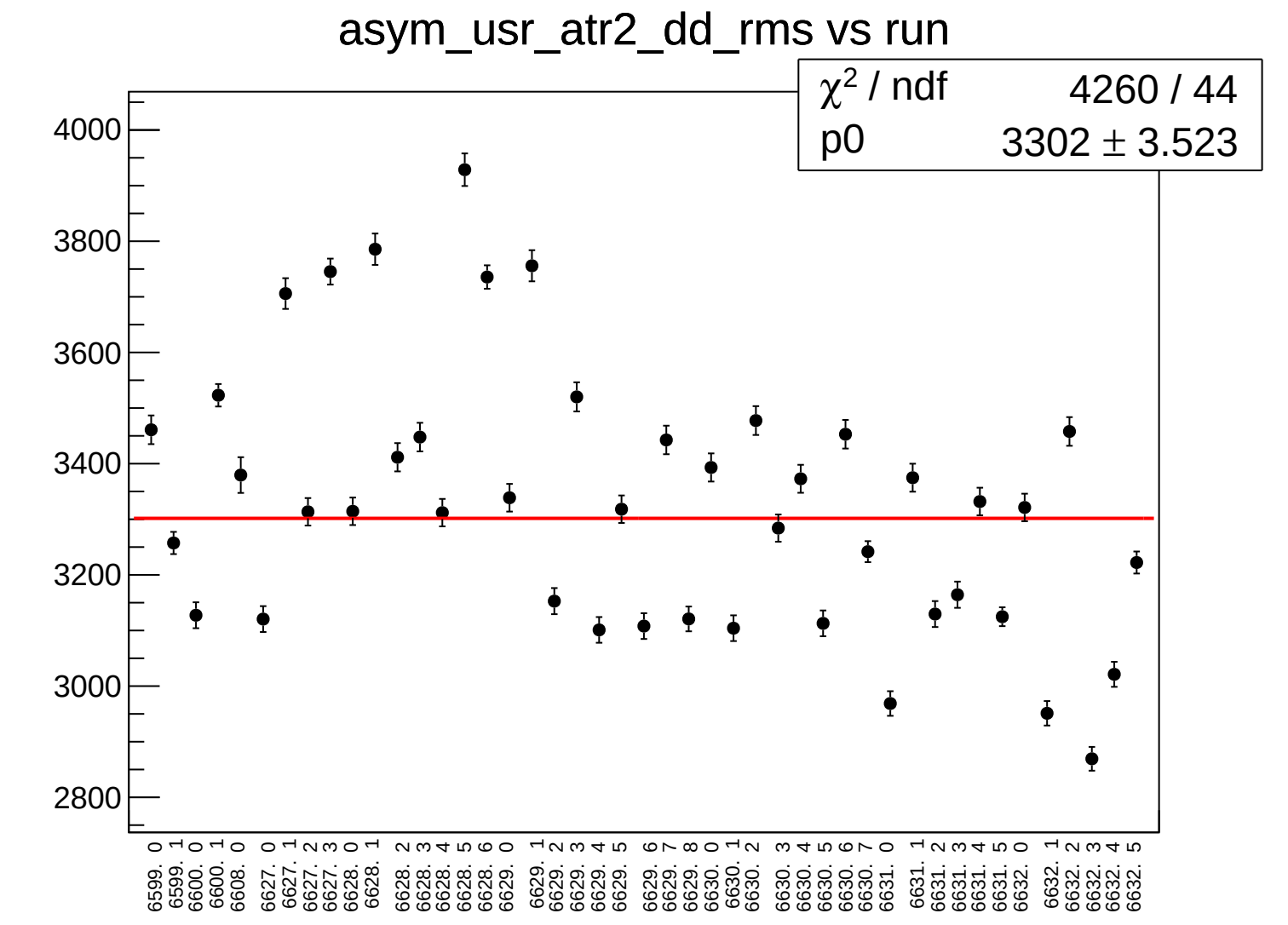
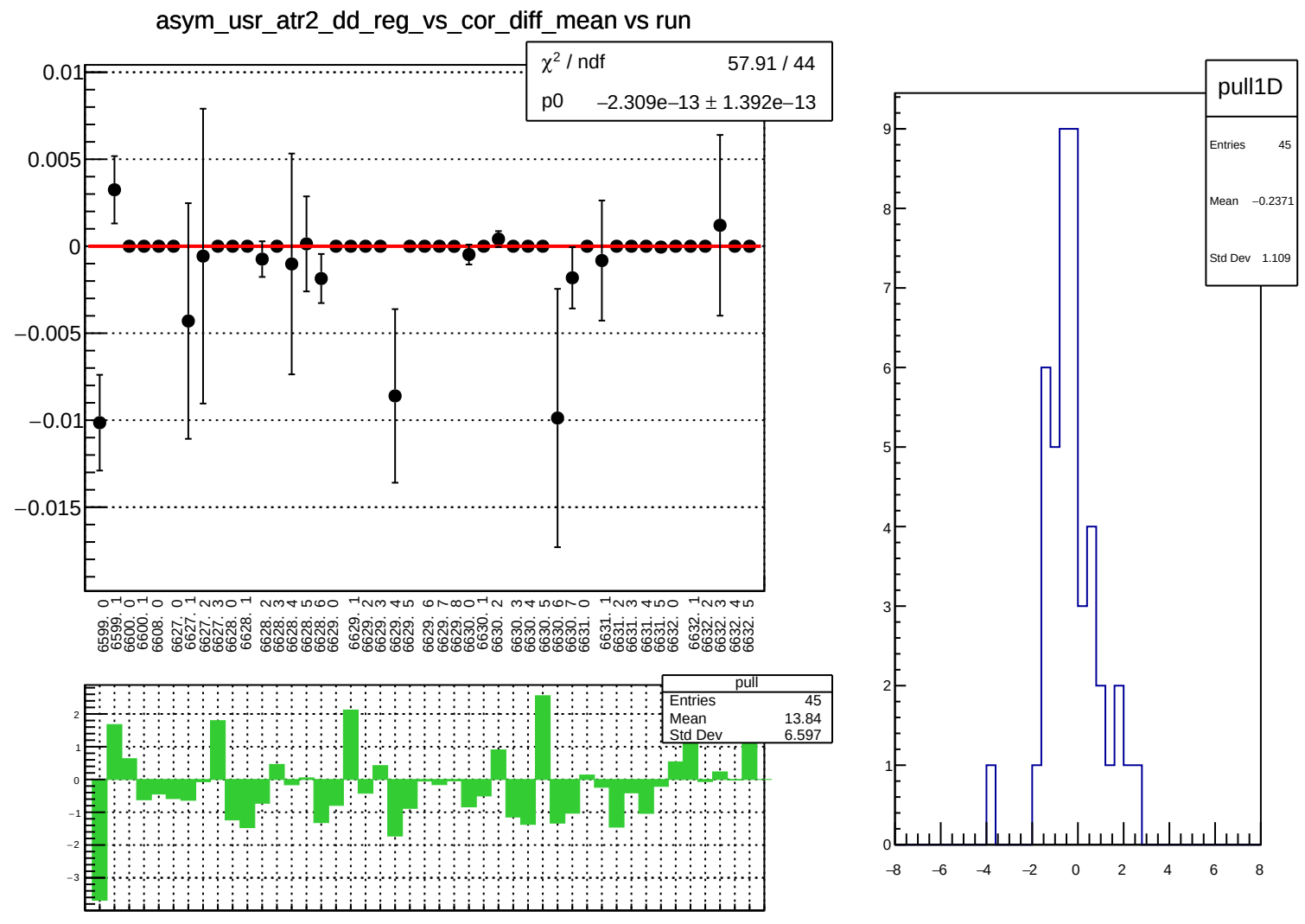
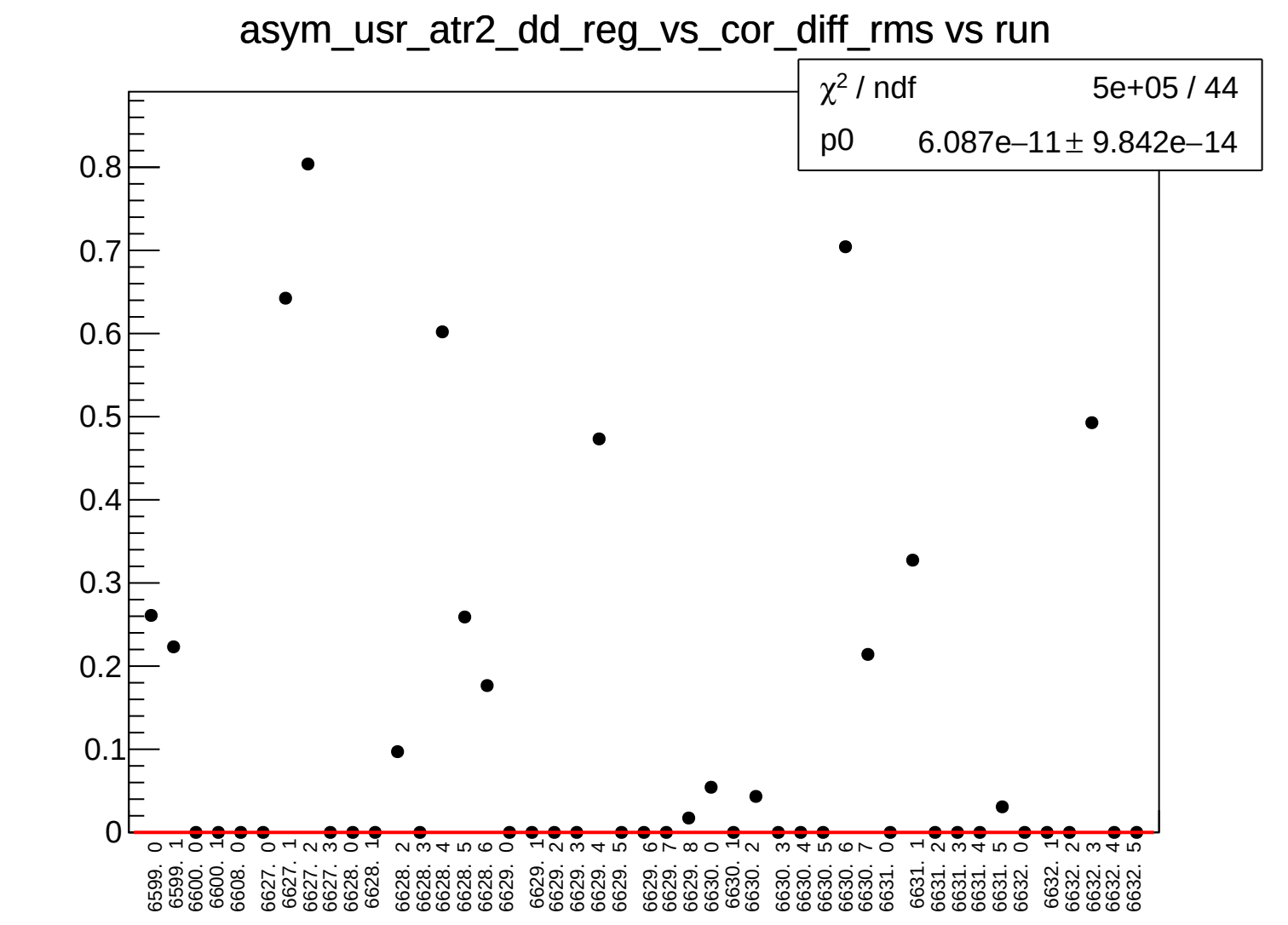
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

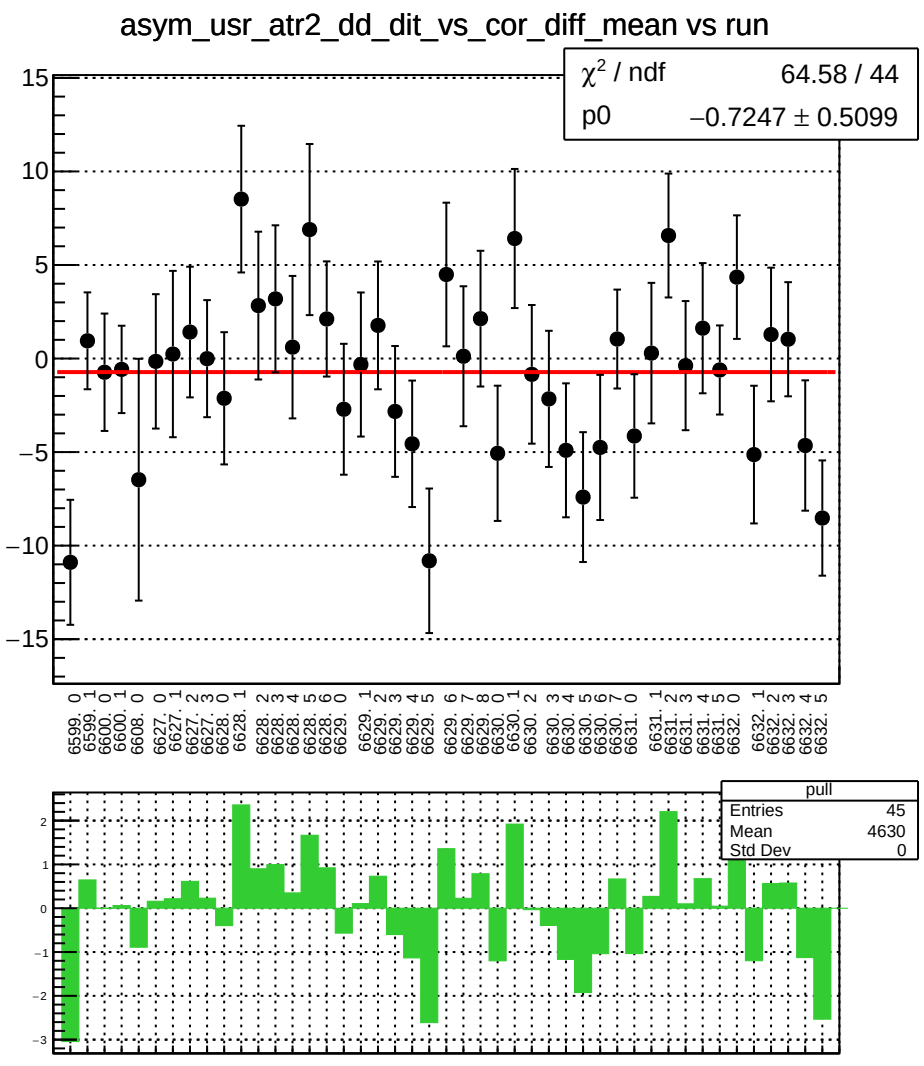

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 59.44 / 44
p0 3131 ± 4982
100
50
0
−50
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −68.95
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.02726
Std Dev 1.149
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_dd_rms vs run
χ² / ndf 4260 / 44
p0 3302 ± 3.523
4000
3800
3600
3400
3200
3000
2800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 57.91 / 44
p0 −2.309e−13 ± 1.392e−13
0.01
0.005
0
−0.005
−0.01
−0.015
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 13.84
Std Dev 6.597
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.2371
Std Dev 1.109
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ2 / ndf 5e+05 / 44
p0 6.087e−11 ± 9.842e−14
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 64.58 / 44
p0 −0.7247 ± 0.5099
15
10
5
0
−5
−10
−15
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
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6629. 6
6629. 7
6629. 8
6630. 0
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6630. 2
6630. 3
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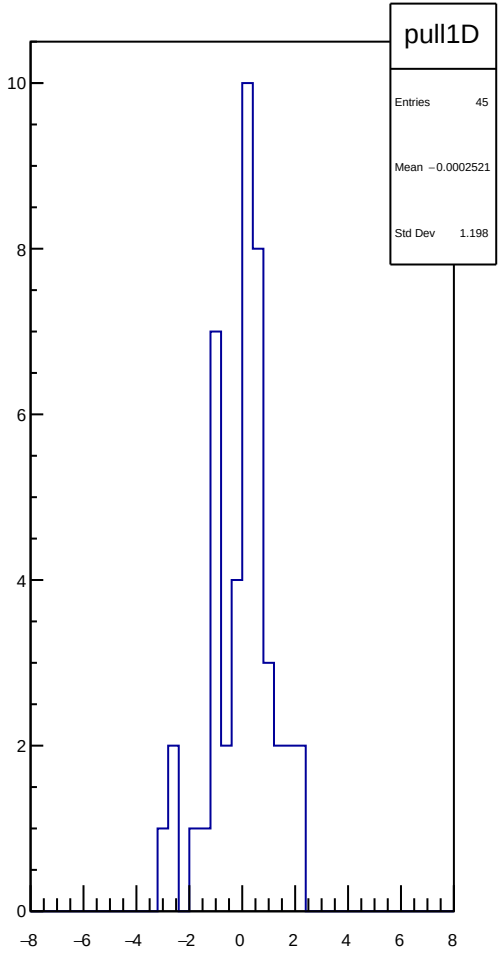
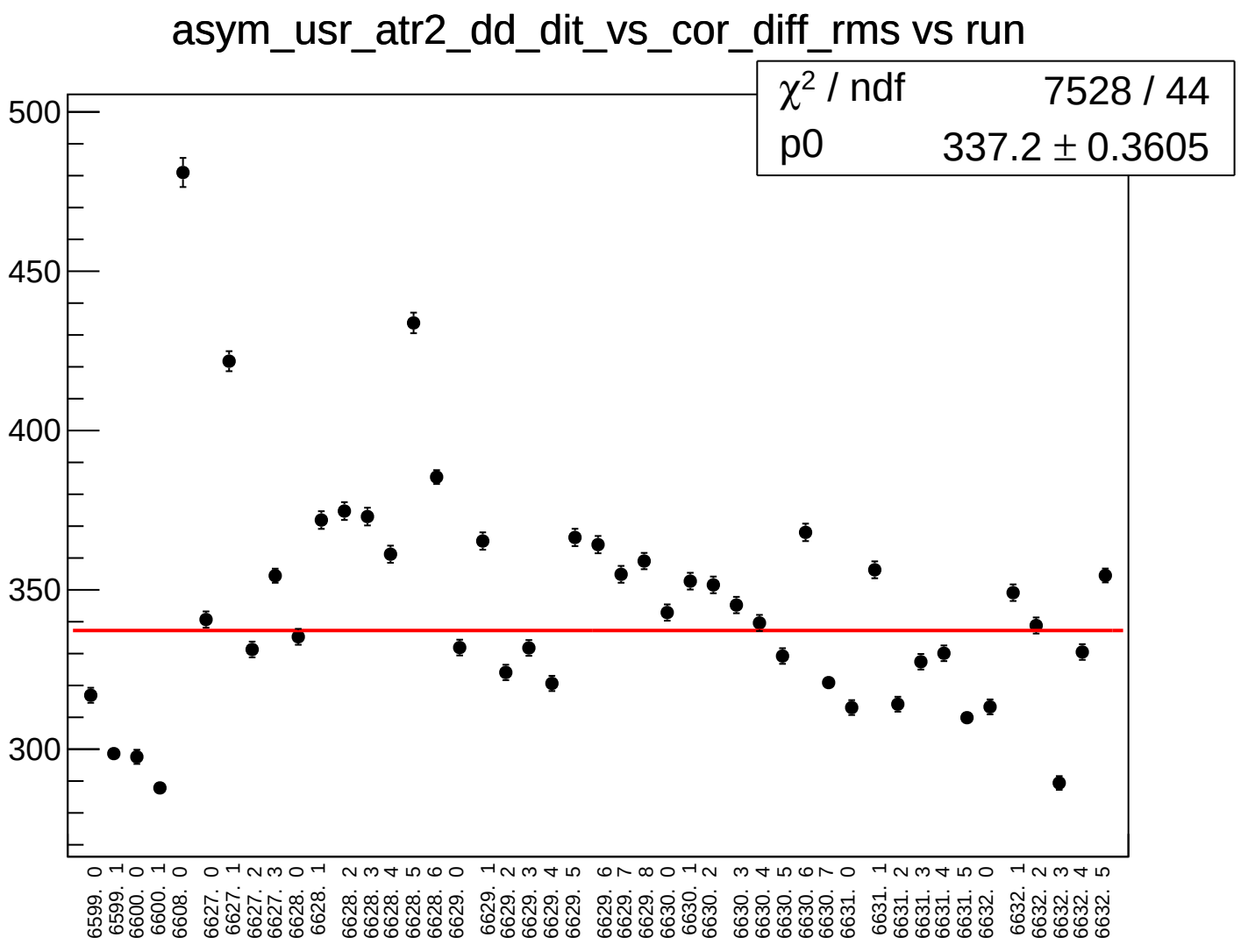
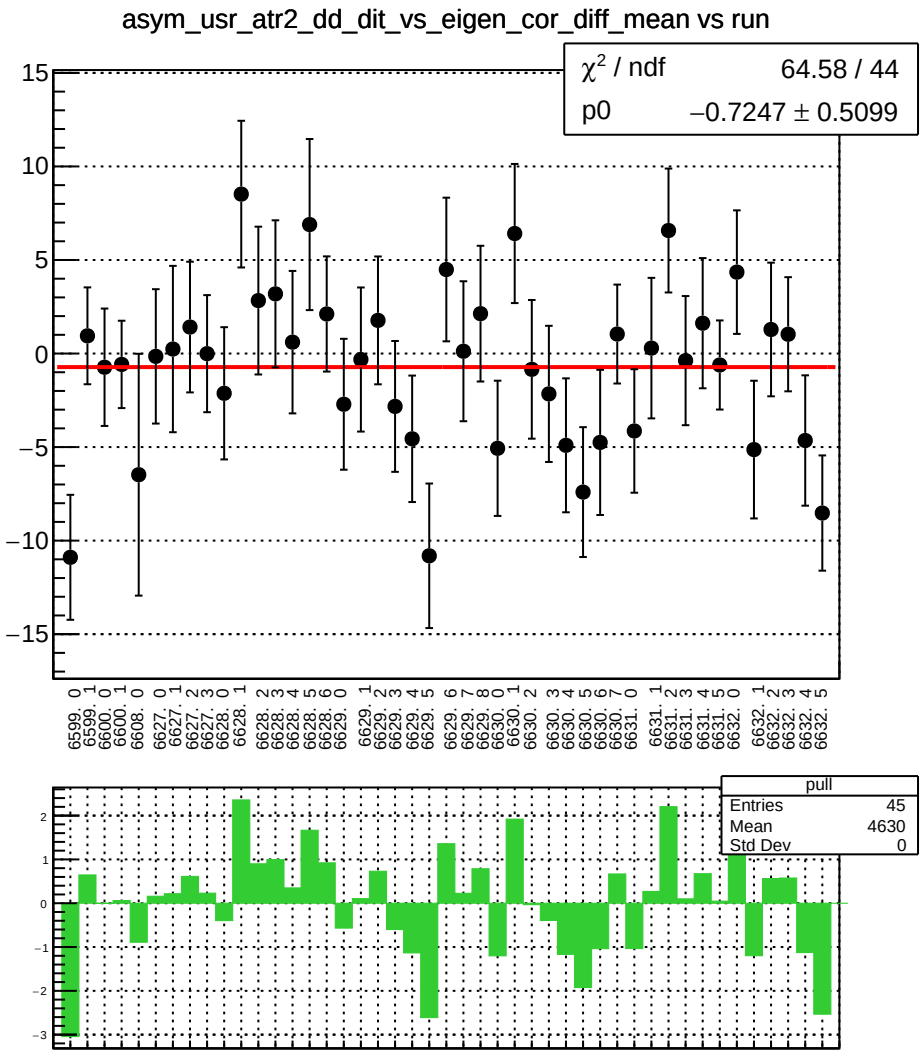
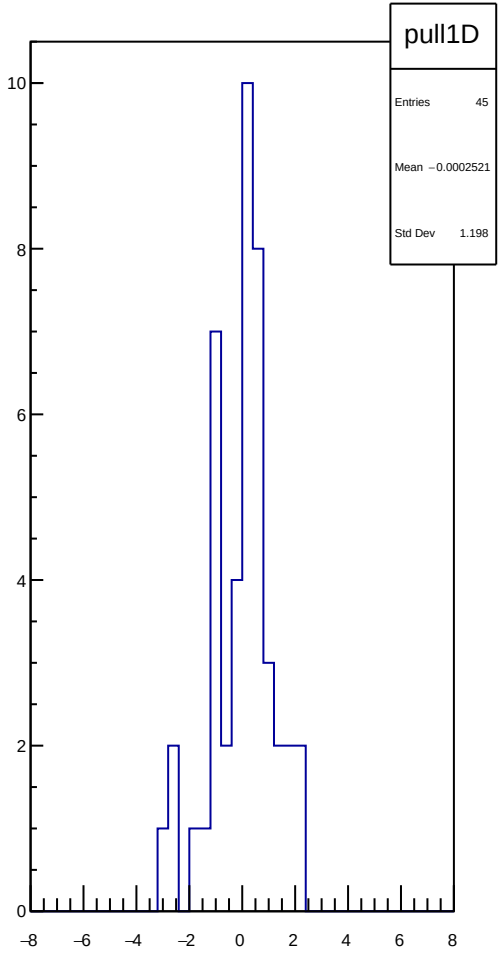
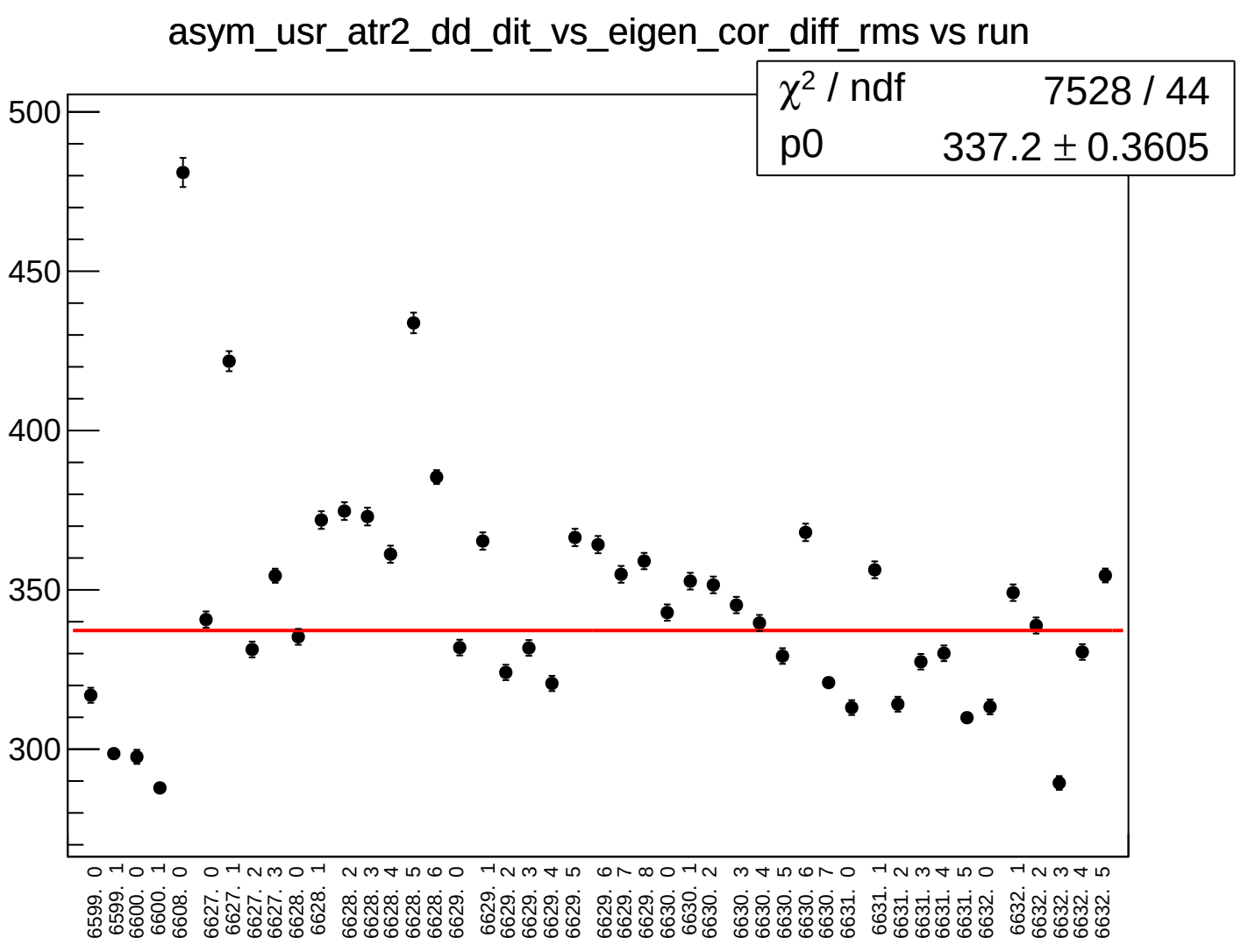
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 4630
Std Dev 0
2
1
0
−1
−2
−3

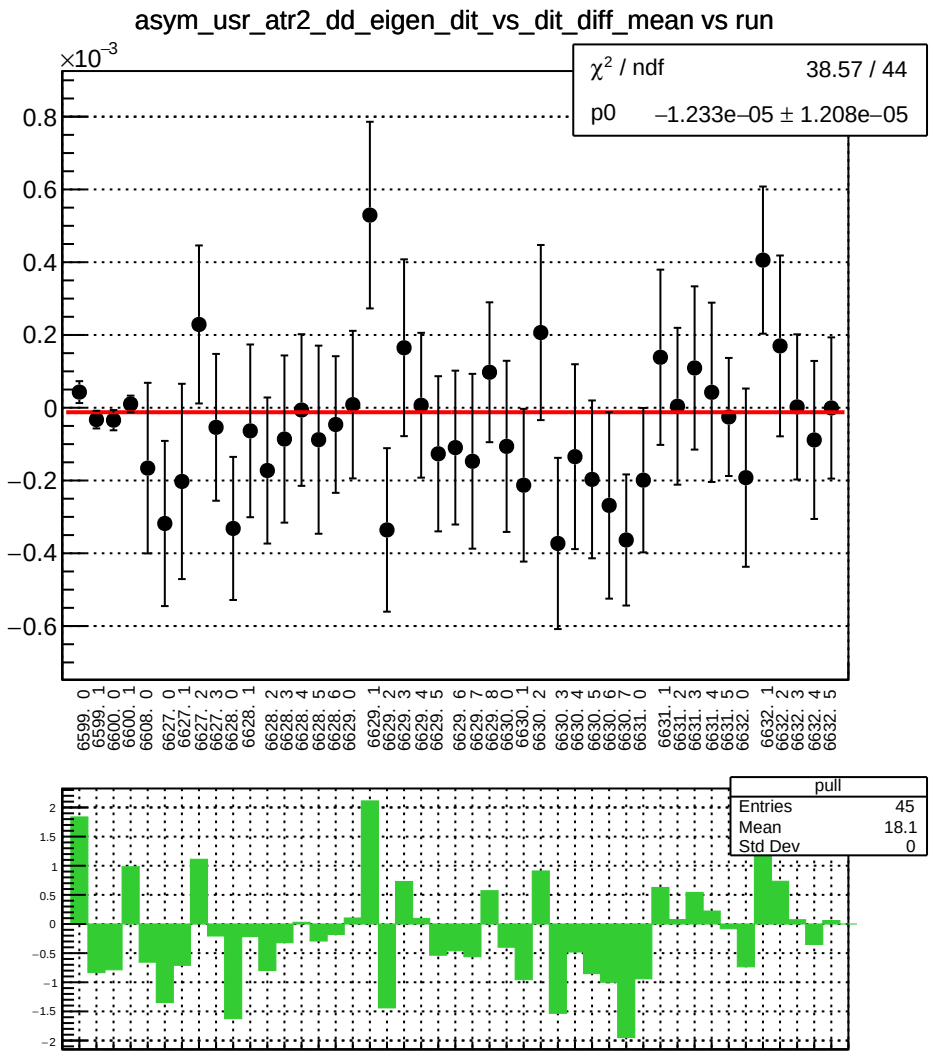

pull1D
Entries 45
Mean −0.0002521
Std Dev 1.198
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

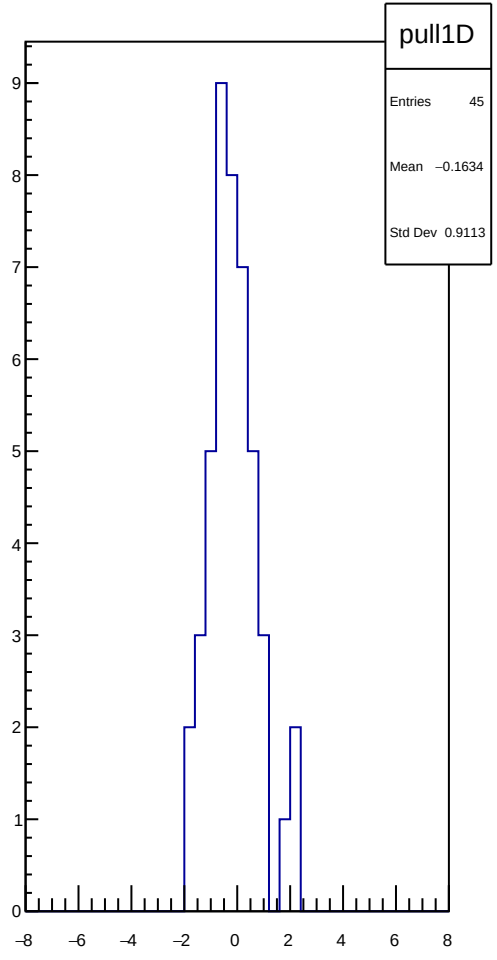

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7528 / 44
p0 337.2 ± 0.3605
500
450
400
350
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

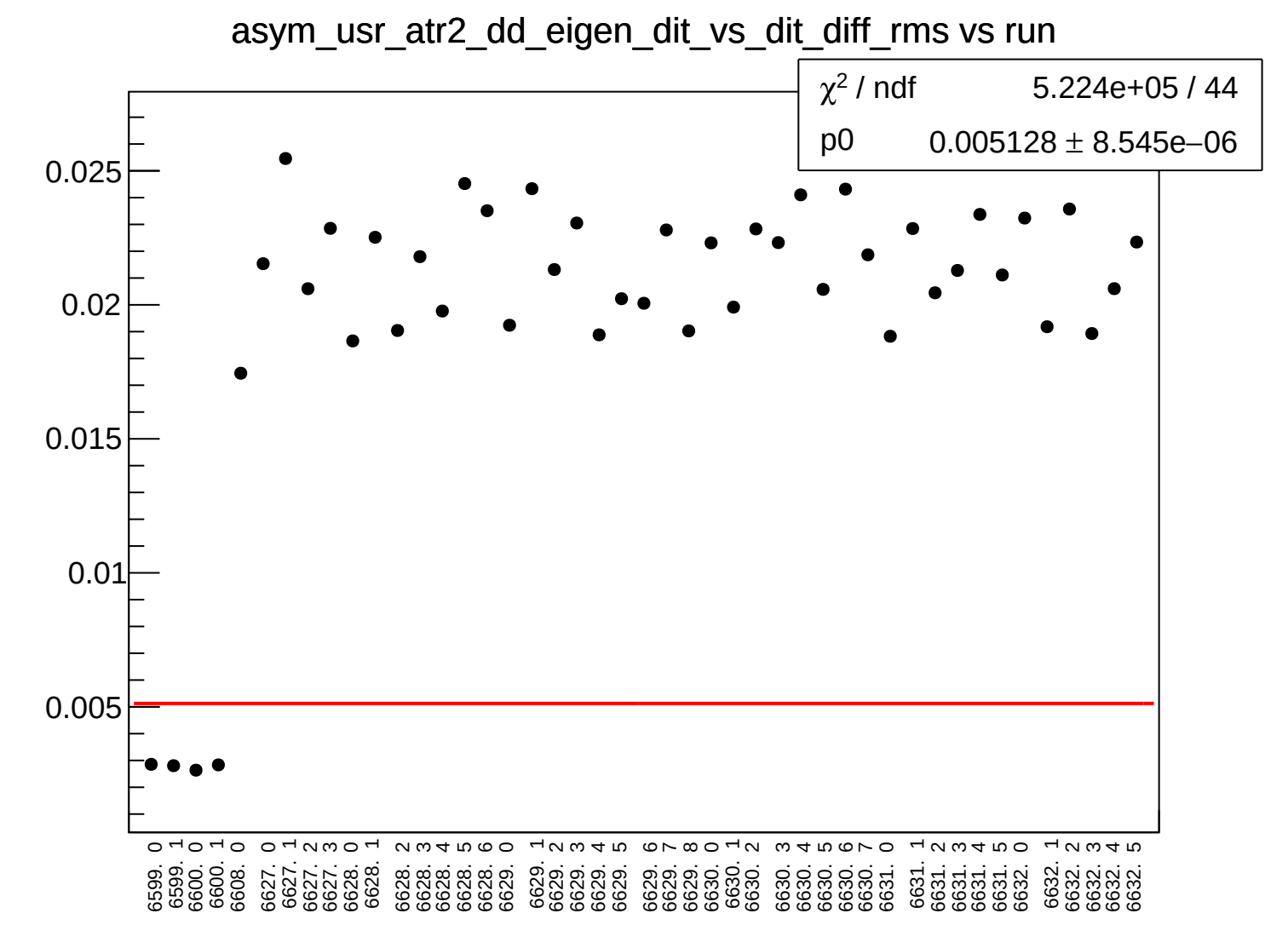

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.58 / 44
p0 −0.7247 ± 0.5099
pull
Entries 45
Mean 4630
Std Dev 0

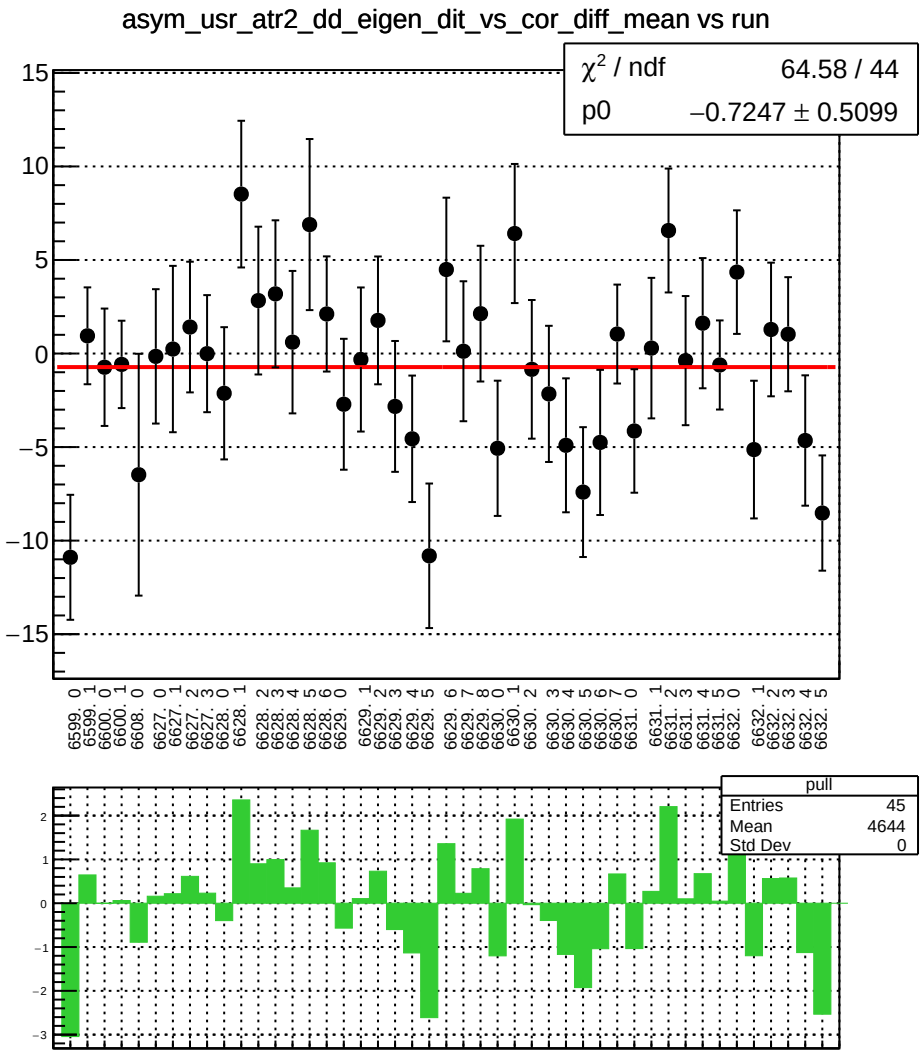

pull1D
Entries 45
Mean −0.0002521
Std Dev 1.198

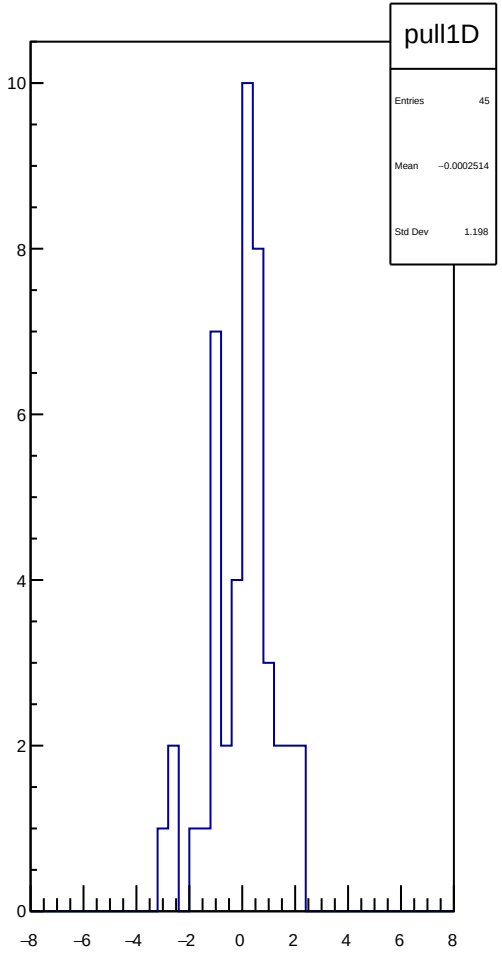

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7528 / 44
p0 337.2 ± 0.3605
500
450
400
350
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

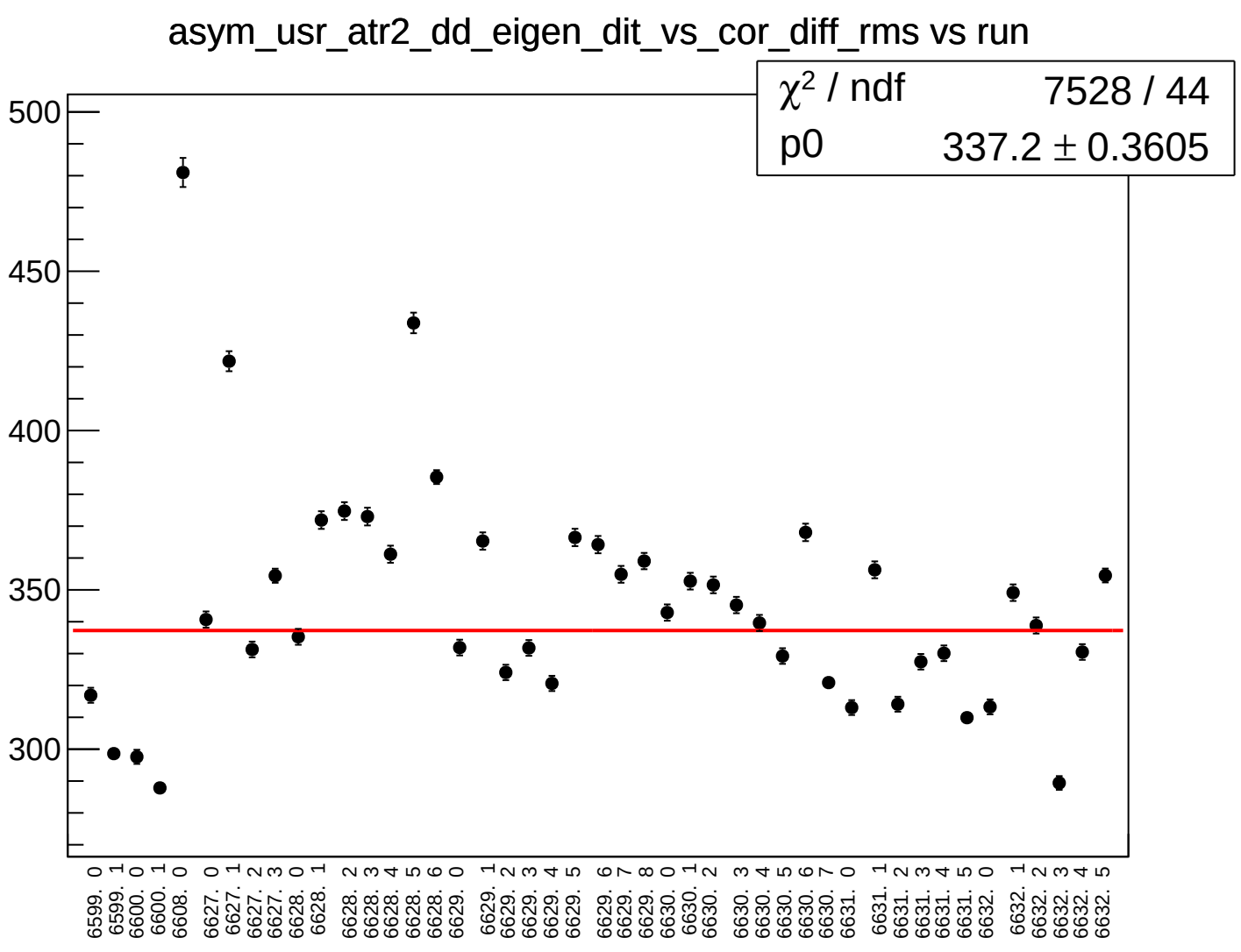

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 38.57 / 44
p0 −1.233e−05 ± 1.208e−05
pull
Entries 45
Mean 18.1
Std Dev 0

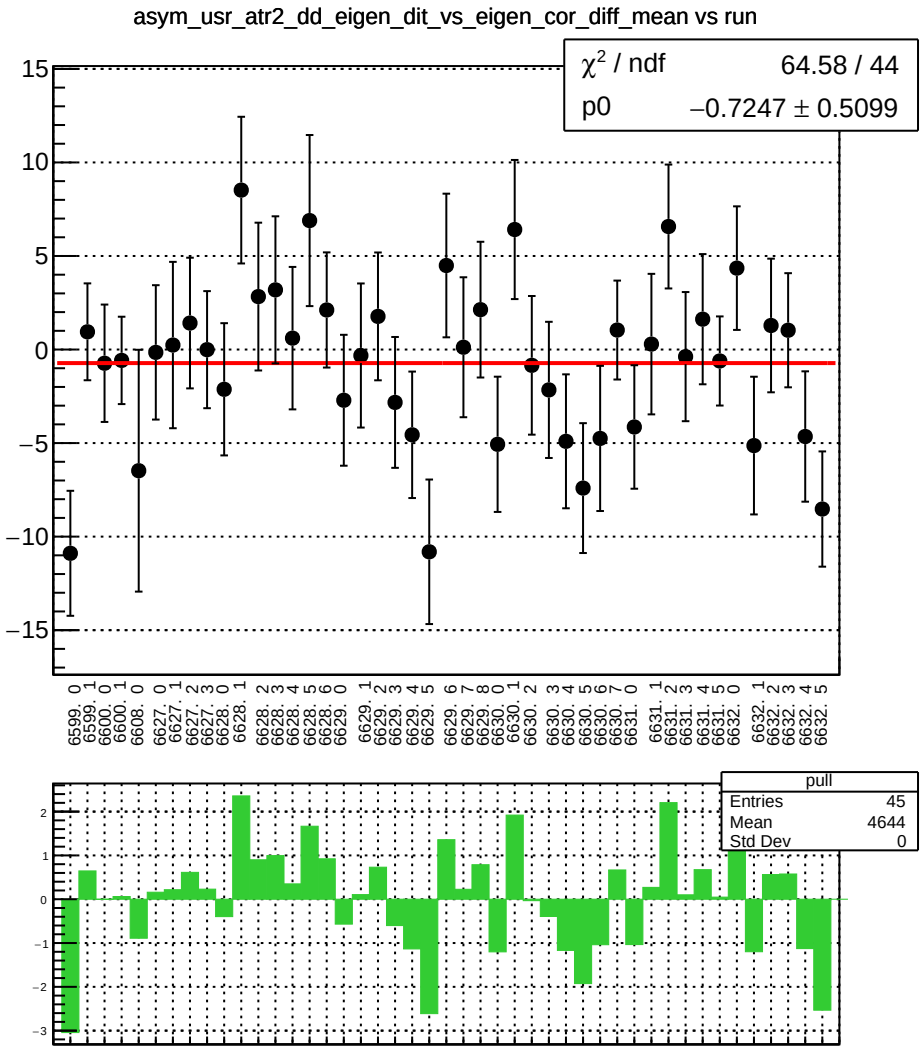

pull1D
Entries 45
Mean −0.1634
Std Dev 0.9113

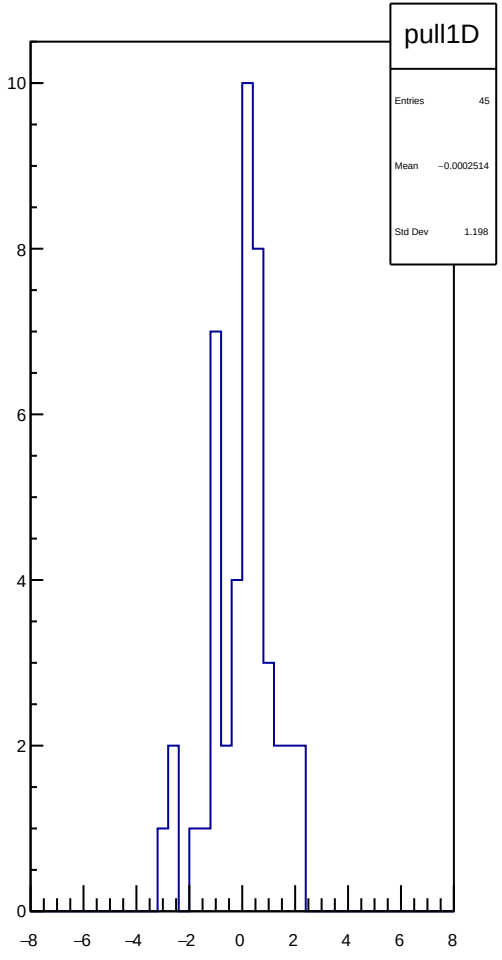

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.224e+05 / 44
p0 0.005128 ± 8.545e−06
0.025
0.02
0.015
0.01
0.005
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

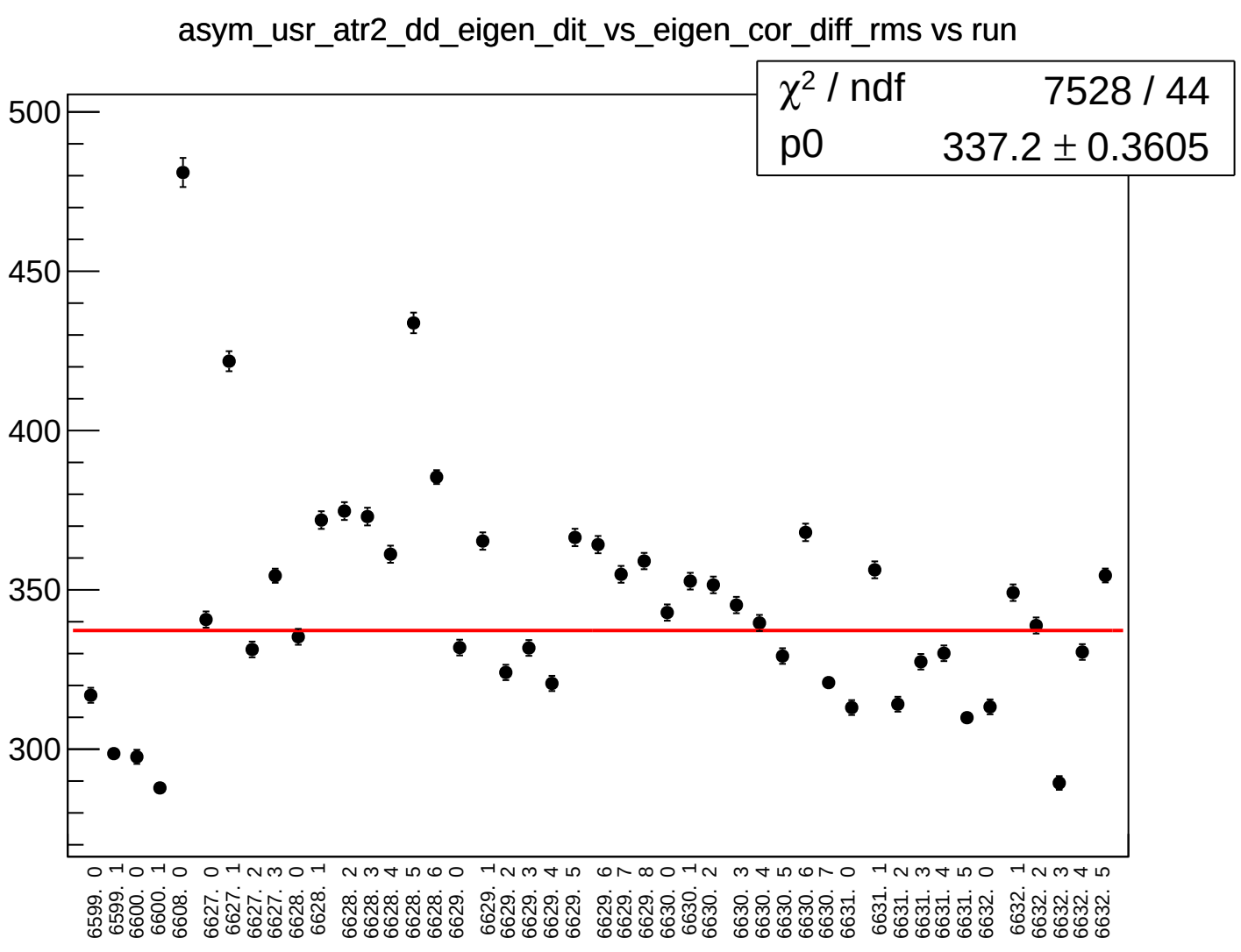

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 64.58 / 44
p0 −0.7247 ± 0.5099
pull
Entries 45
Mean 4644
Std Dev 0

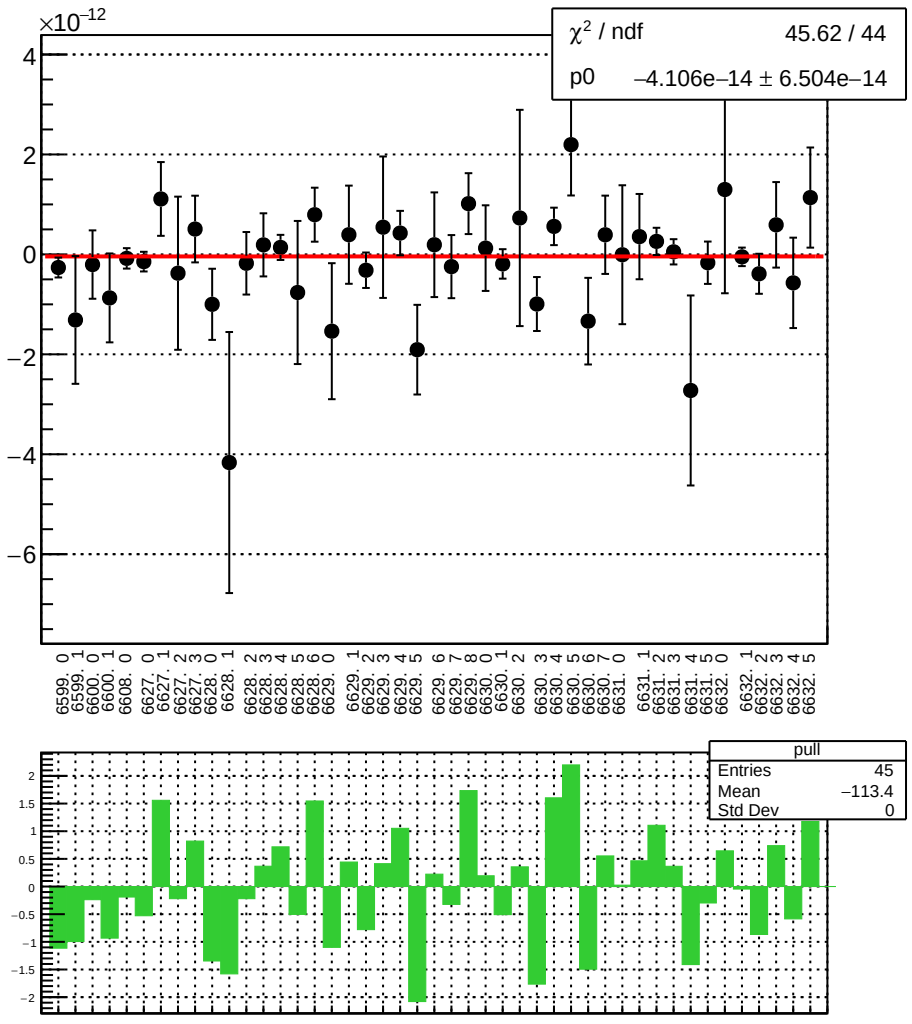

pull1D
Entries 45
Mean −0.0002514
Std Dev 1.198

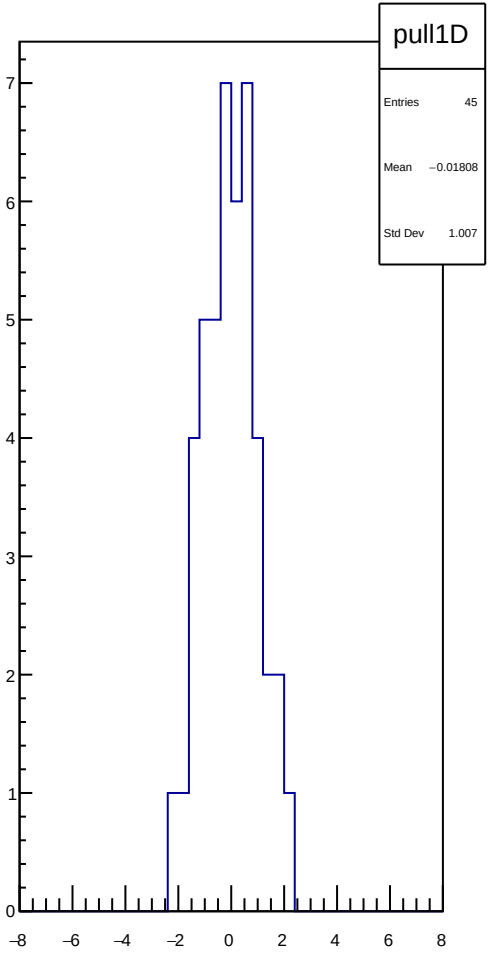

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7528 / 44
p0 337.2 ± 0.3605
500
450
400
350
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

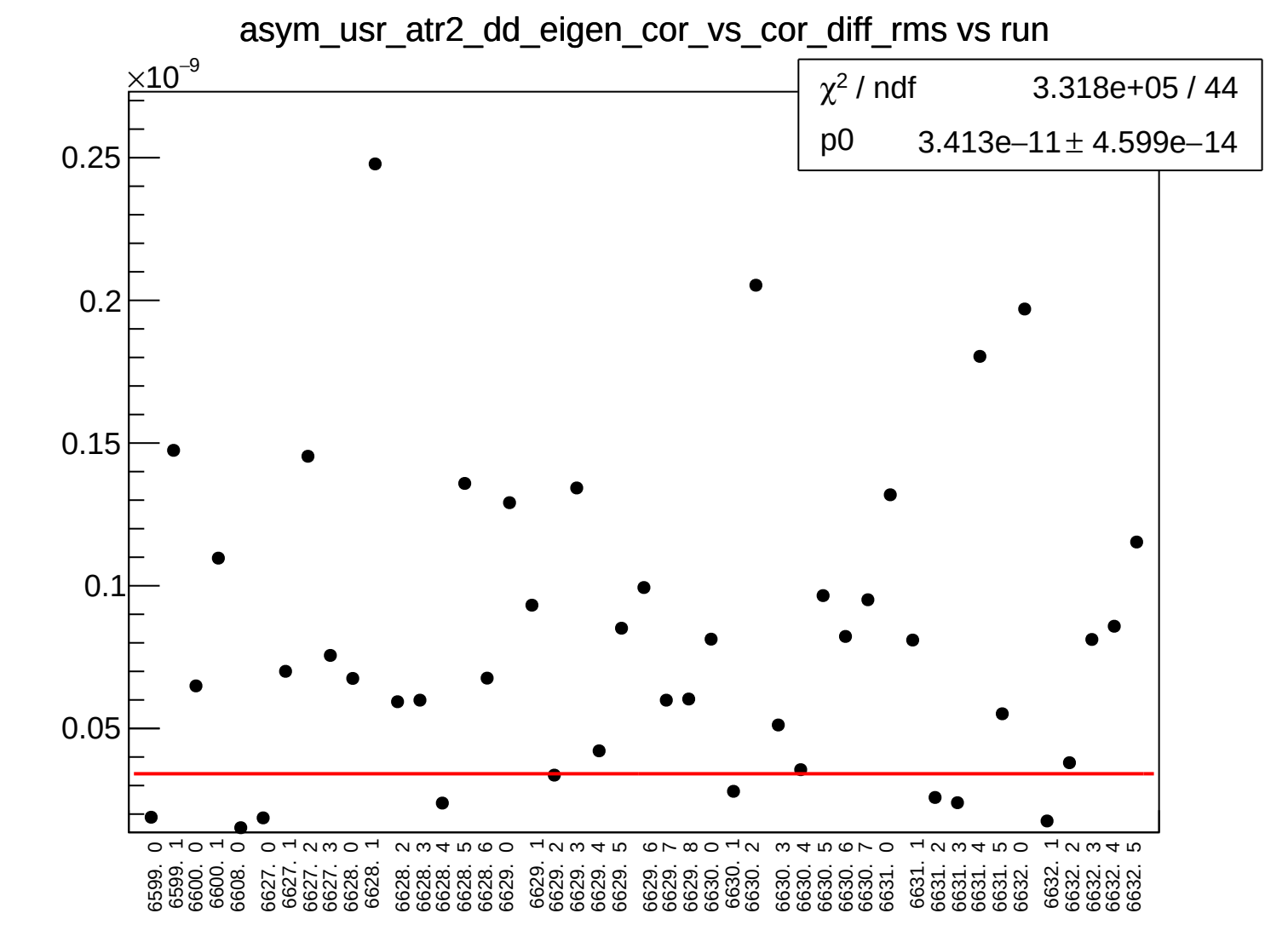

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.58 / 44
p0 −0.7247 ± 0.5099
pull
Entries 45
Mean 4644
Std Dev 0

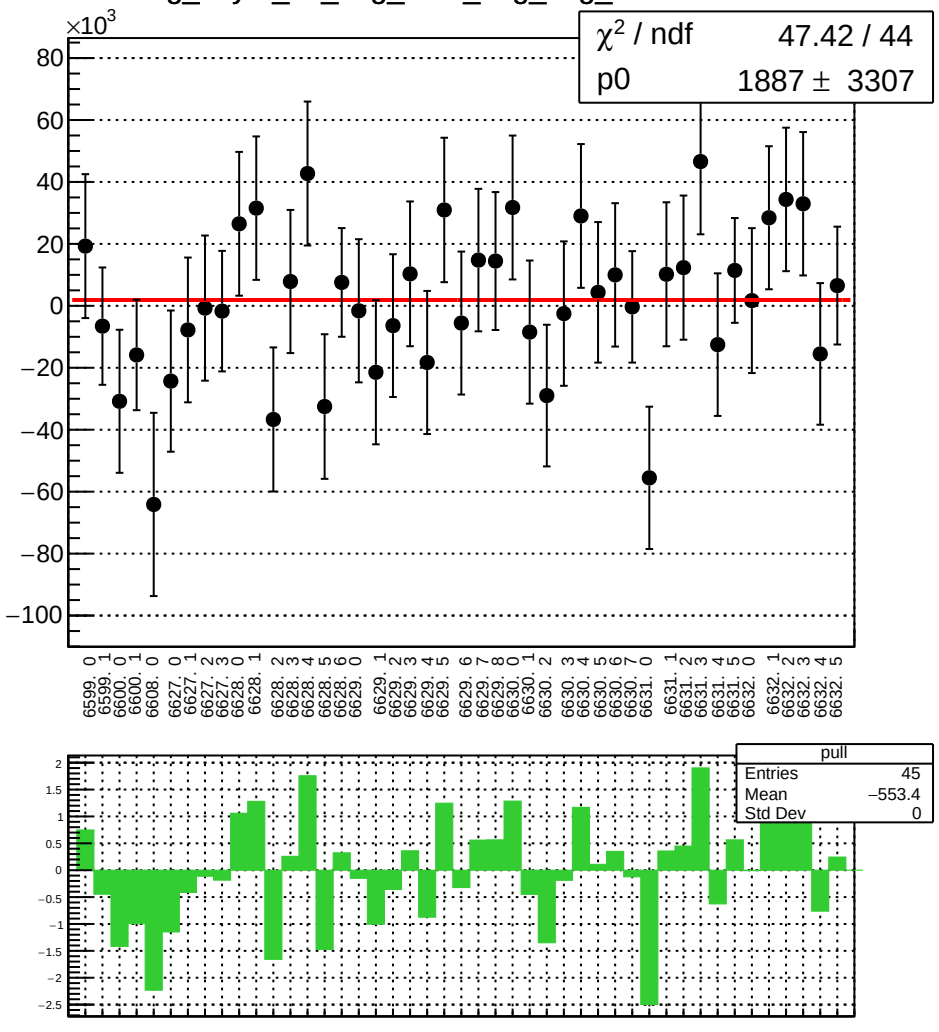

pull1D
Entries 45
Mean −0.0002514
Std Dev 1.198

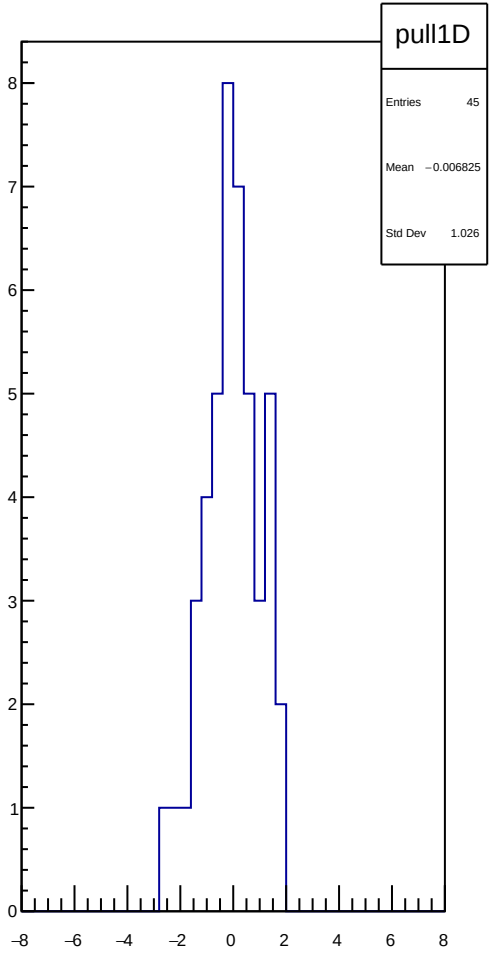

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7528 / 44
p0 337.2 ± 0.3605
500
450
400
350
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

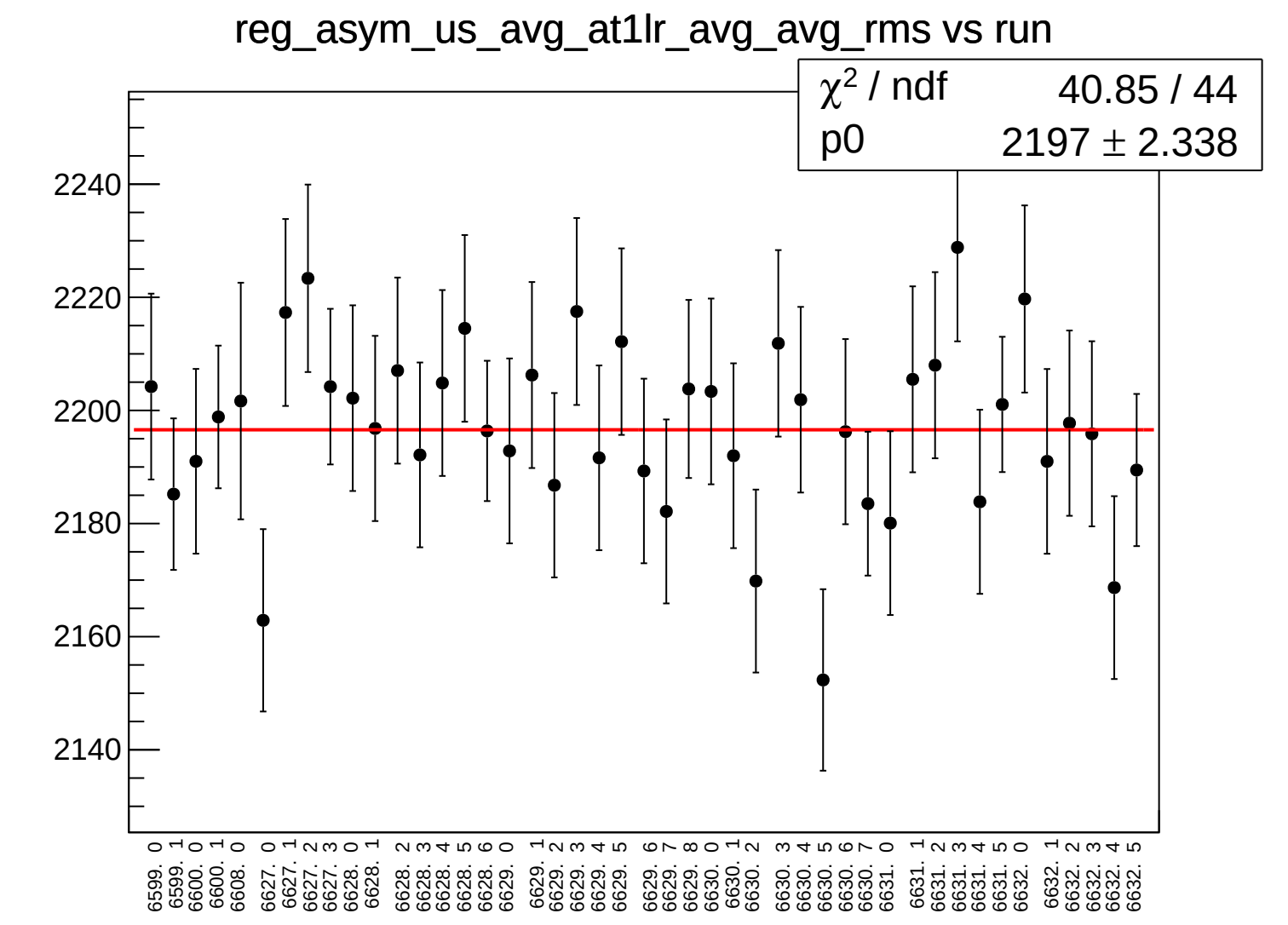

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 45.62 / 44
p0 −4.106e−14 ± 6.504e−14
pull
Entries 45
Mean −113.4
Std Dev 0

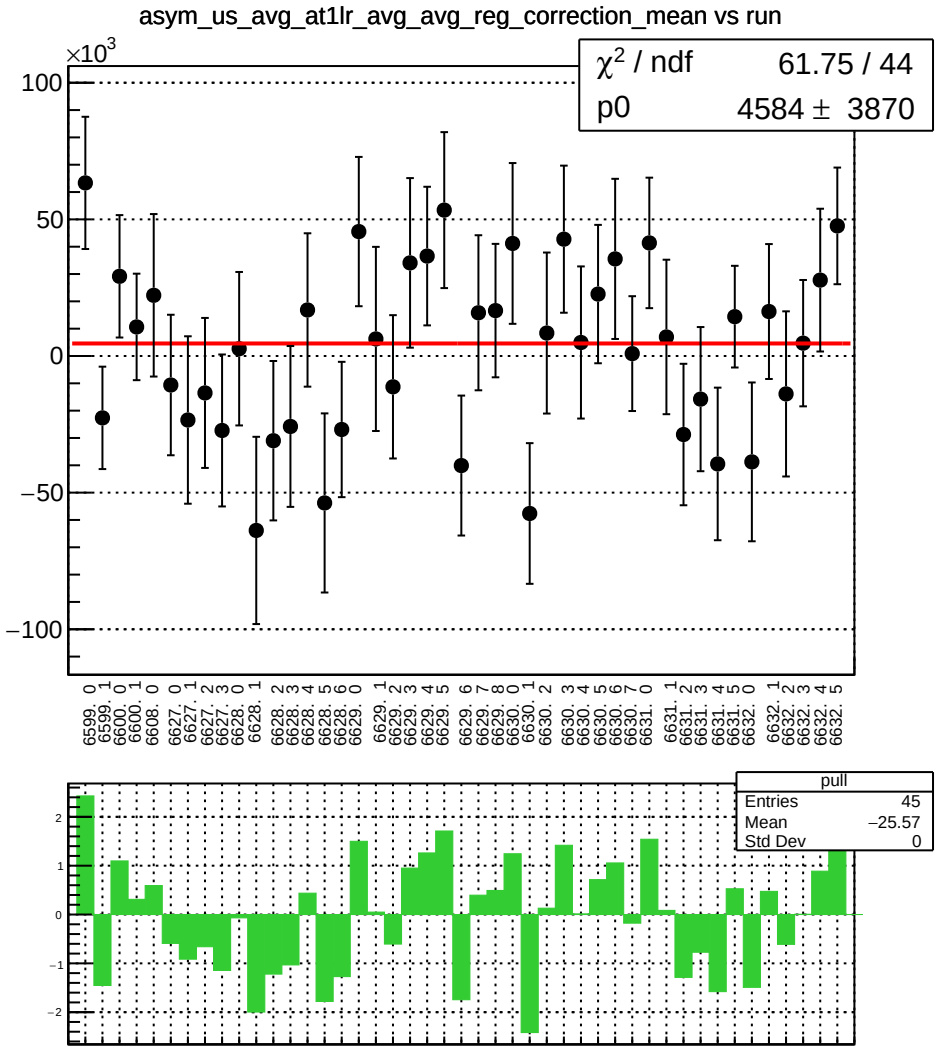

pull1D
Entries 45
Mean −0.01808
Std Dev 1.007

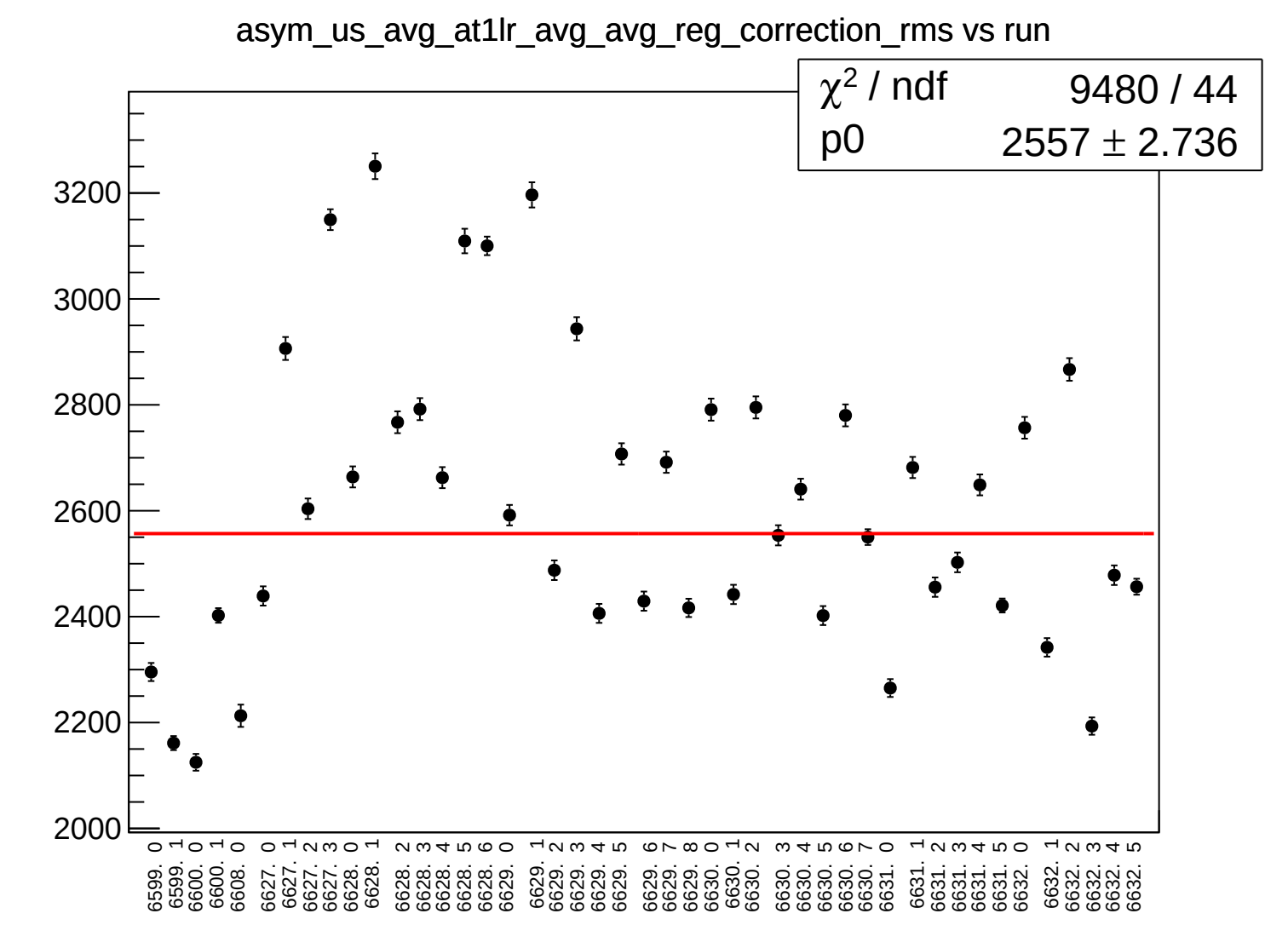

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.318e+05 / 44
p0 3.413e−11 ± 4.599e−14
0.25
0.2
0.15
0.1
0.05
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


reg_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 47.42 / 44
p0 1887 ± 3307
pull
Entries 45
Mean −553.4
Std Dev 0


pull1D
Entries 45
Mean −0.006825
Std Dev 1.026


reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 40.85 / 44
p0 2197 ± 2.338
2240
2220
2200
2180
2160
2140
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 61.75 / 44
p0 4584 ± 3870
100
50
0
−50
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −25.57
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.03283
Std Dev 1.171
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 9480 / 44
p0 2557 ± 2.736
3200
3000
2800
2600
2400
2200
2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
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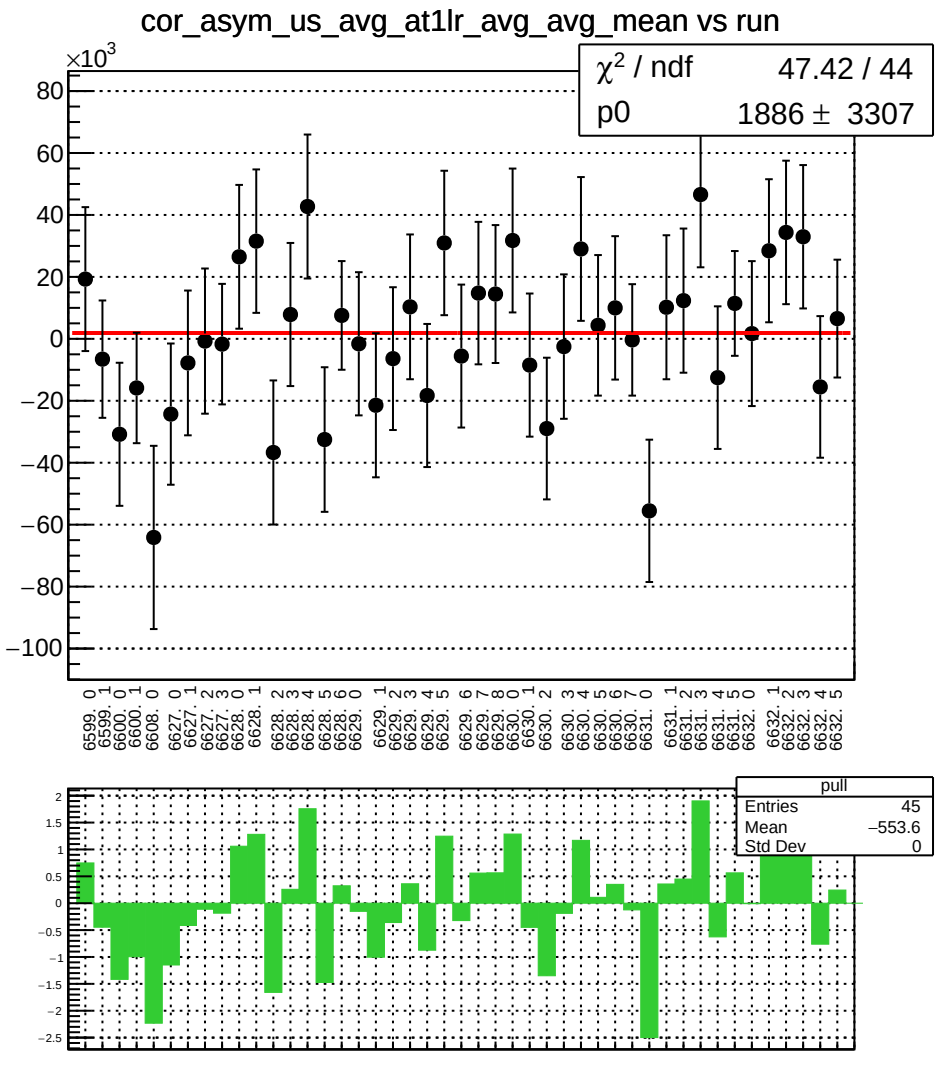
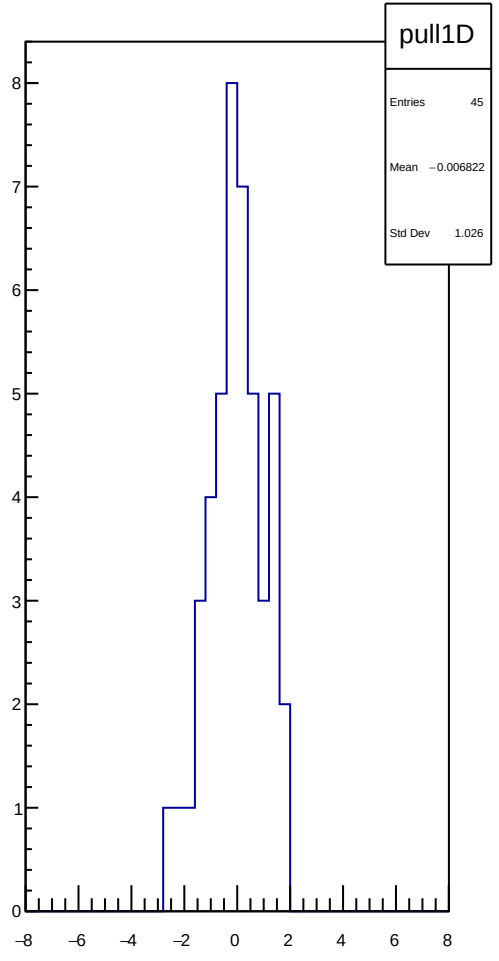
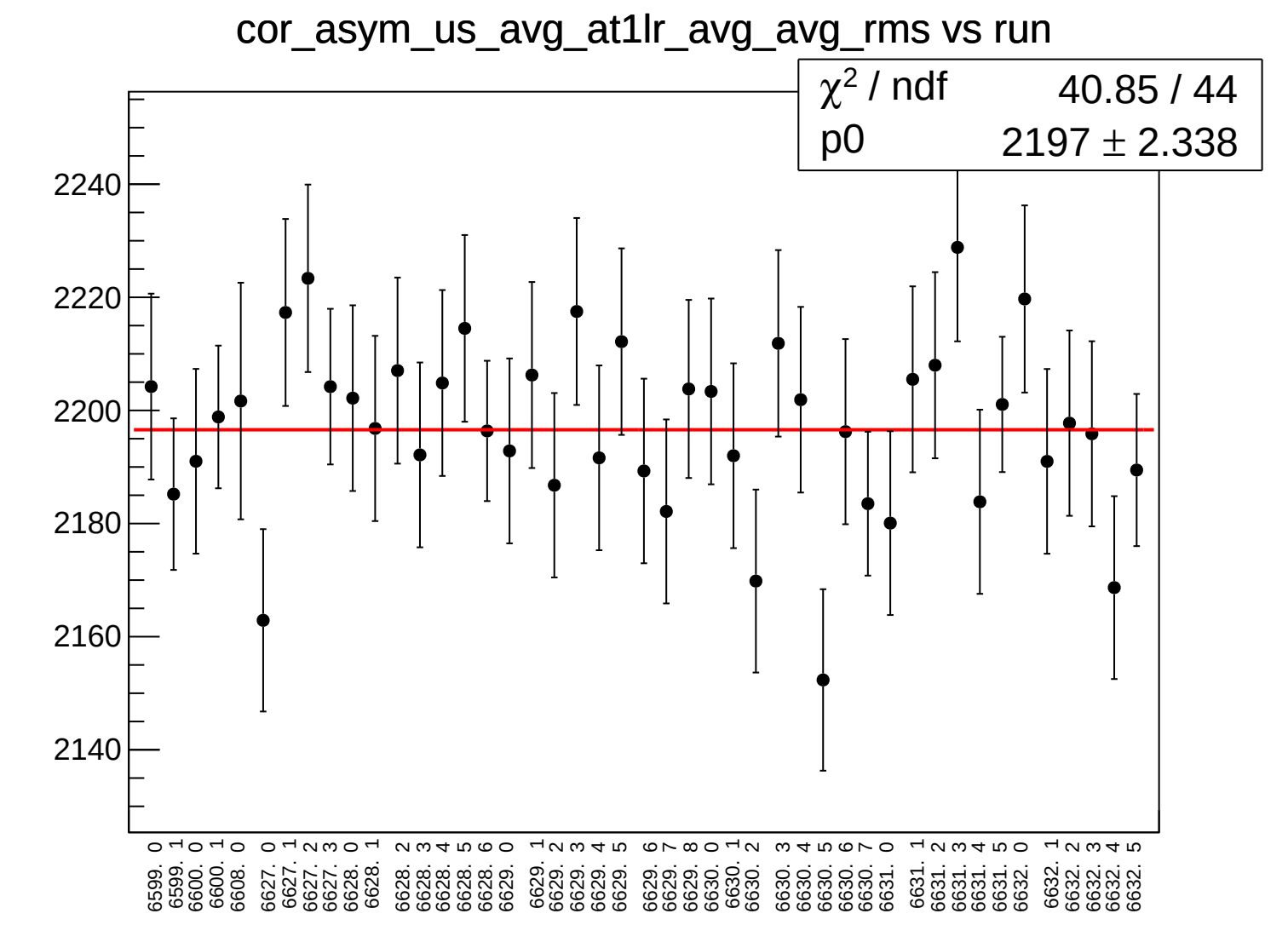
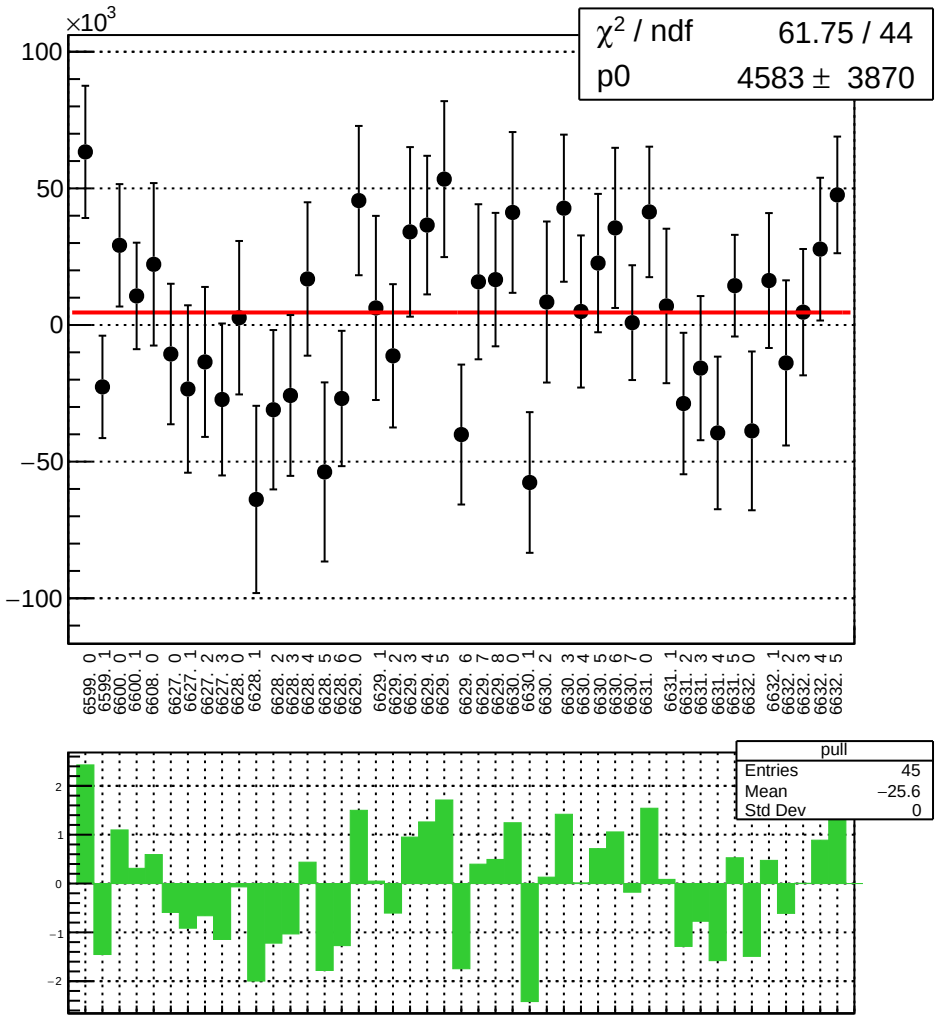
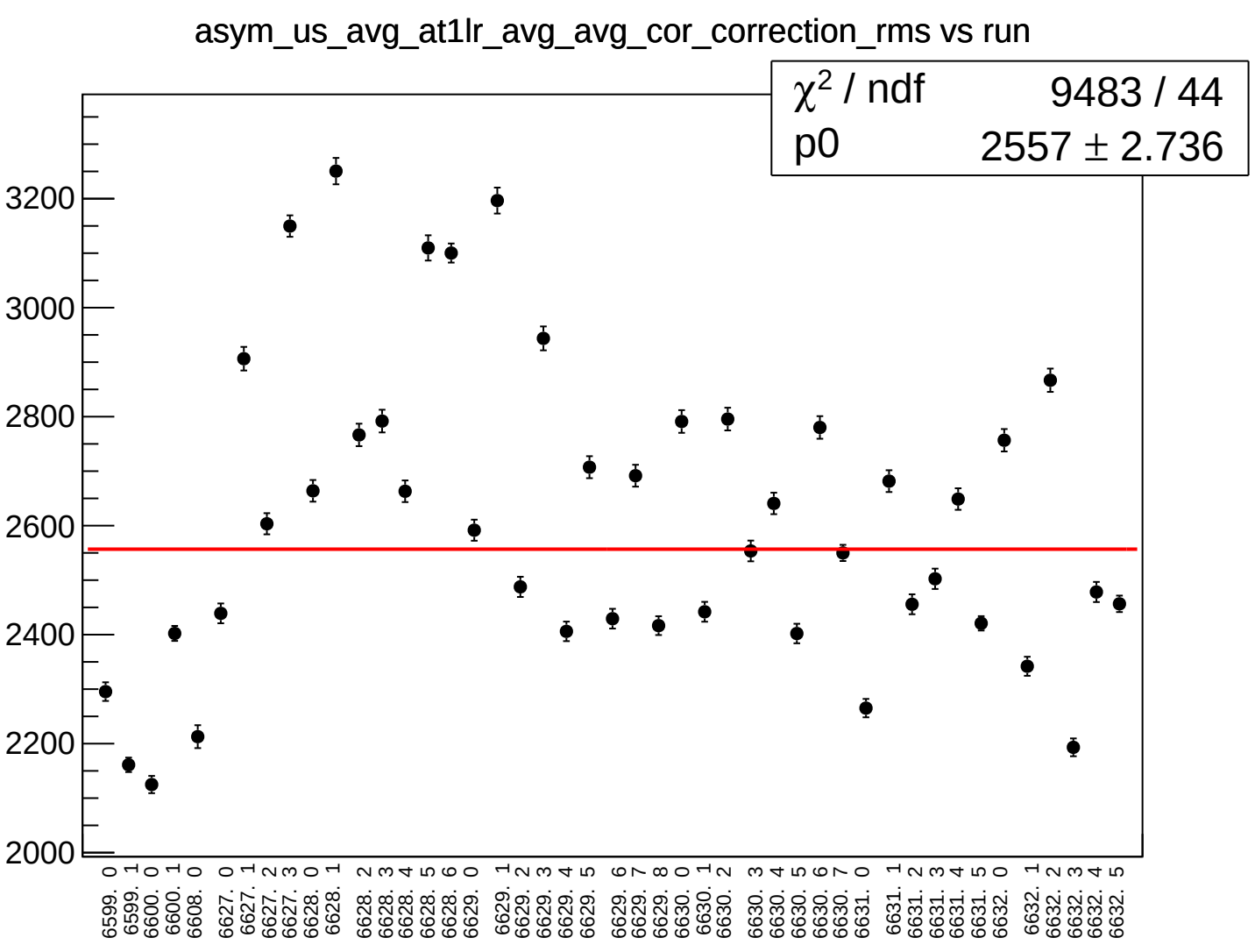
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

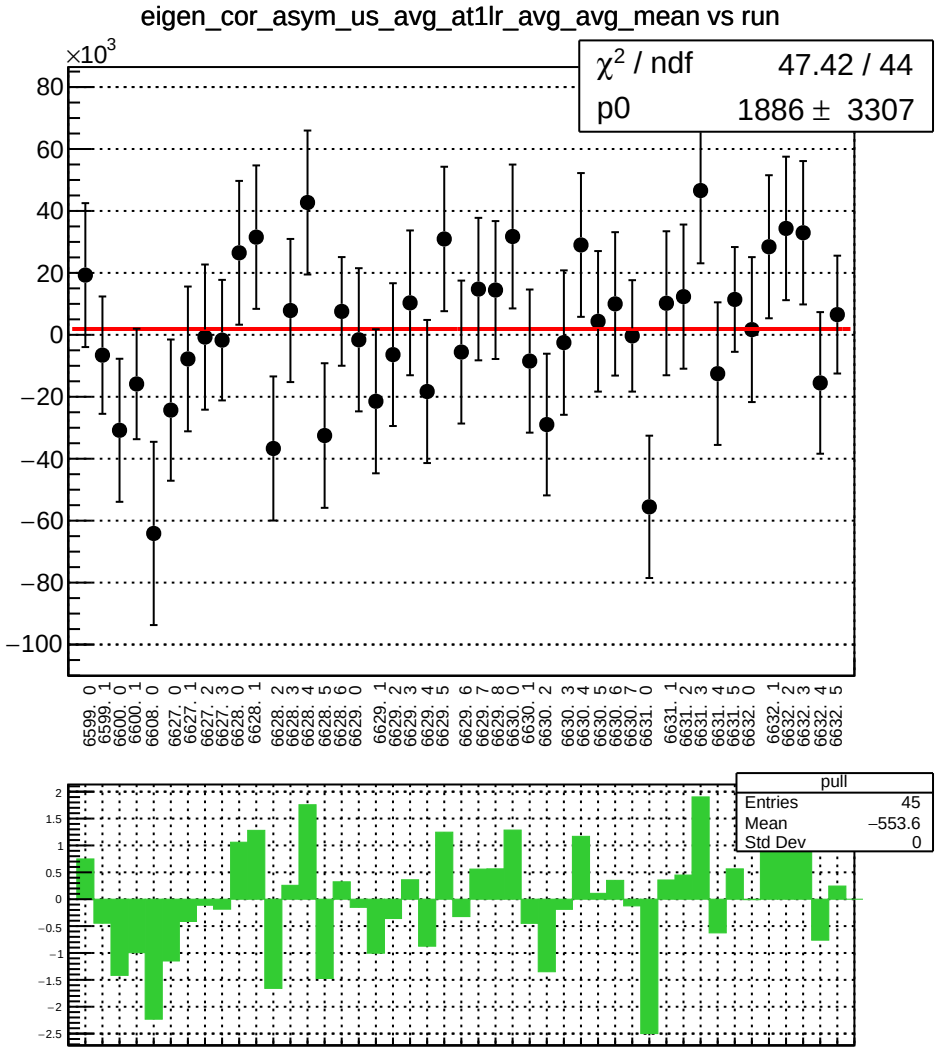

cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 47.42 / 44
p0 1886 ± 3307
pull
Entries 45
Mean −553.6
Std Dev 0

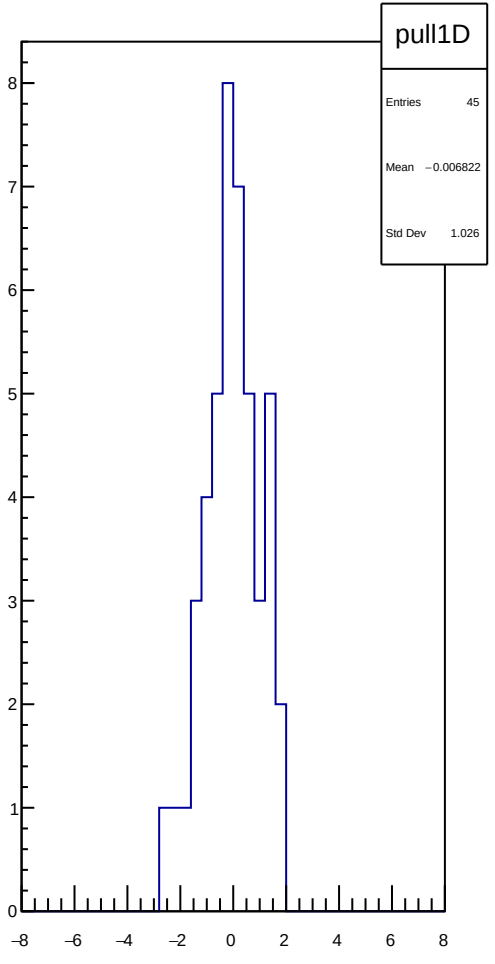

pull1D
Entries 45
Mean −0.006822
Std Dev 1.026

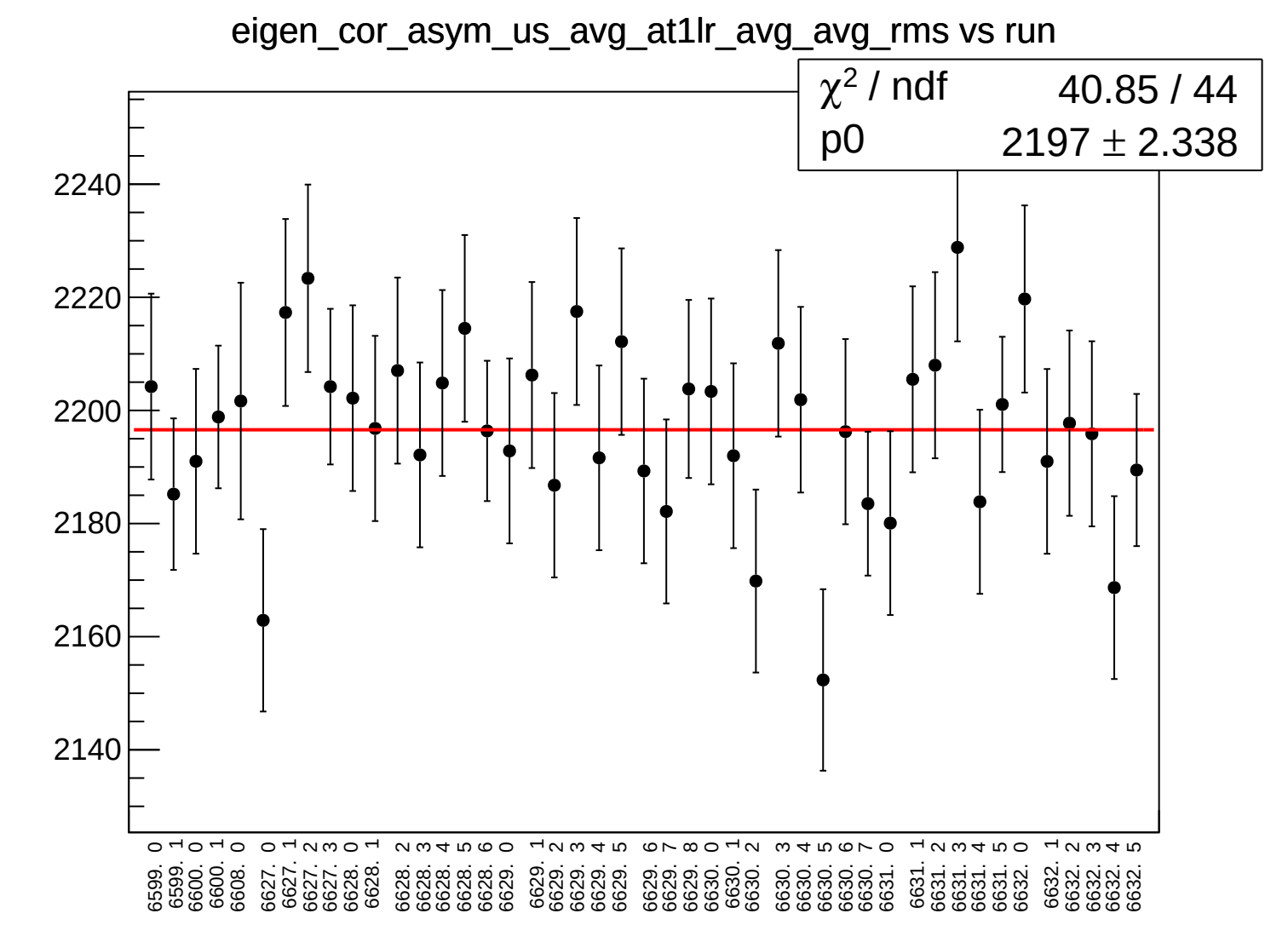

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 40.85 / 44
p0 2197 ± 2.338
2240
2220
2200
2180
2160
2140
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

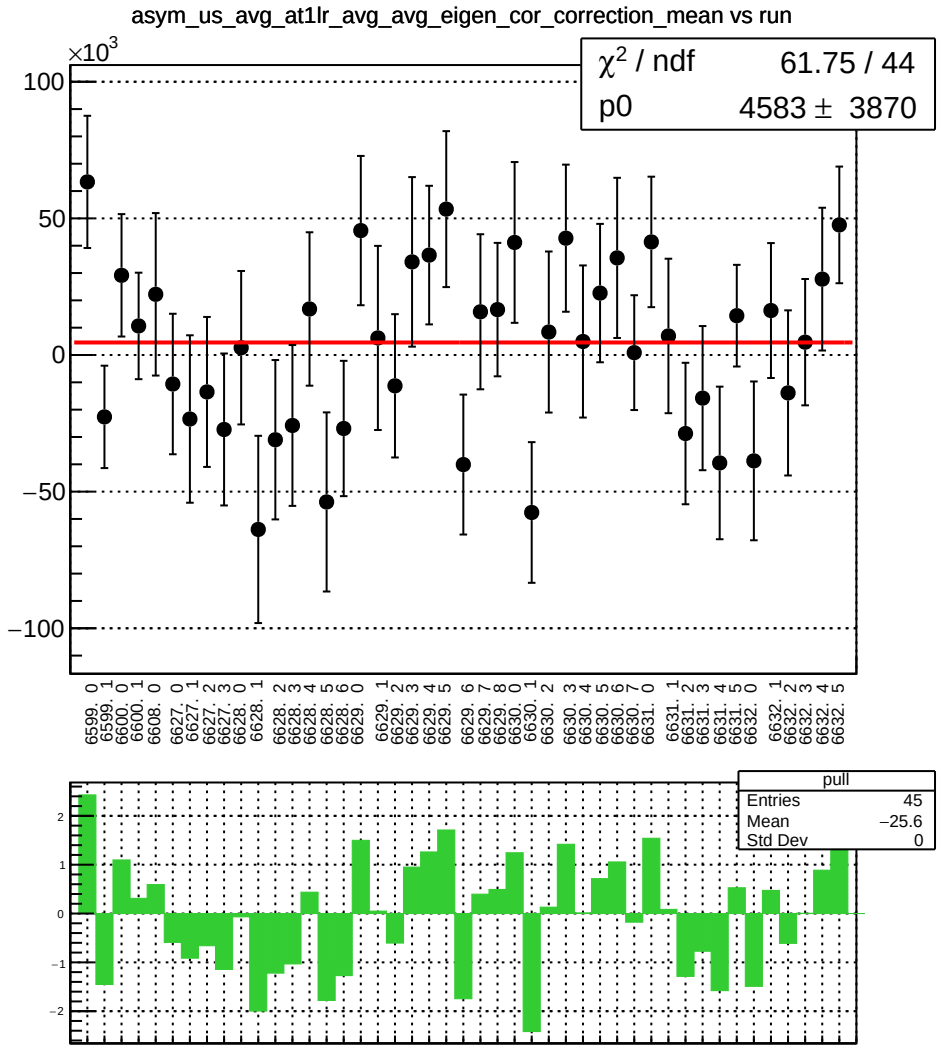

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 61.75 / 44
p0 4583 ± 3870
100
50
0
−50
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −25.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.03282
Std Dev 1.171
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

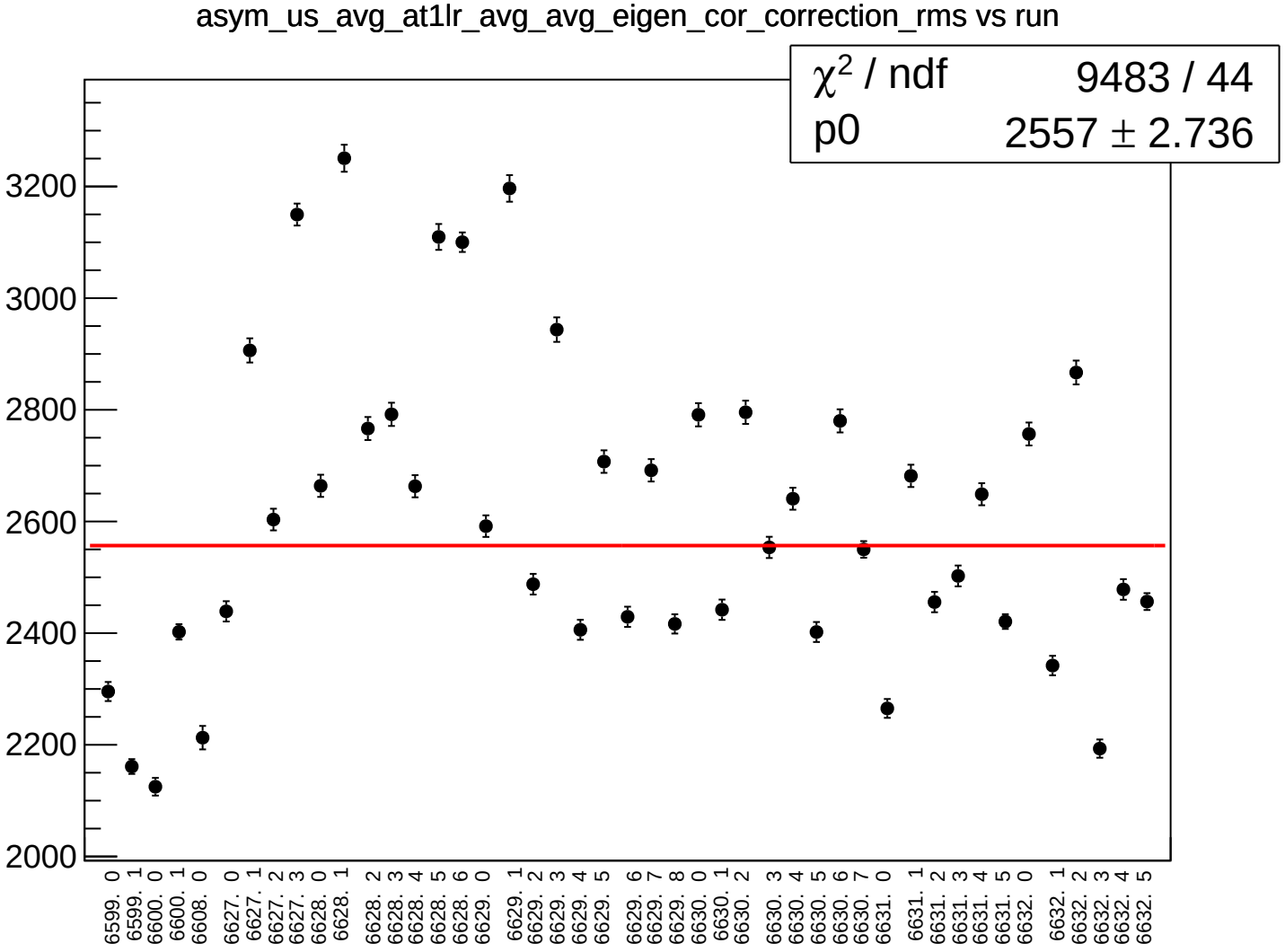

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 9483 / 44
p0 2557 ± 2.736
3200
3000
2800
2600
2400
2200
2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

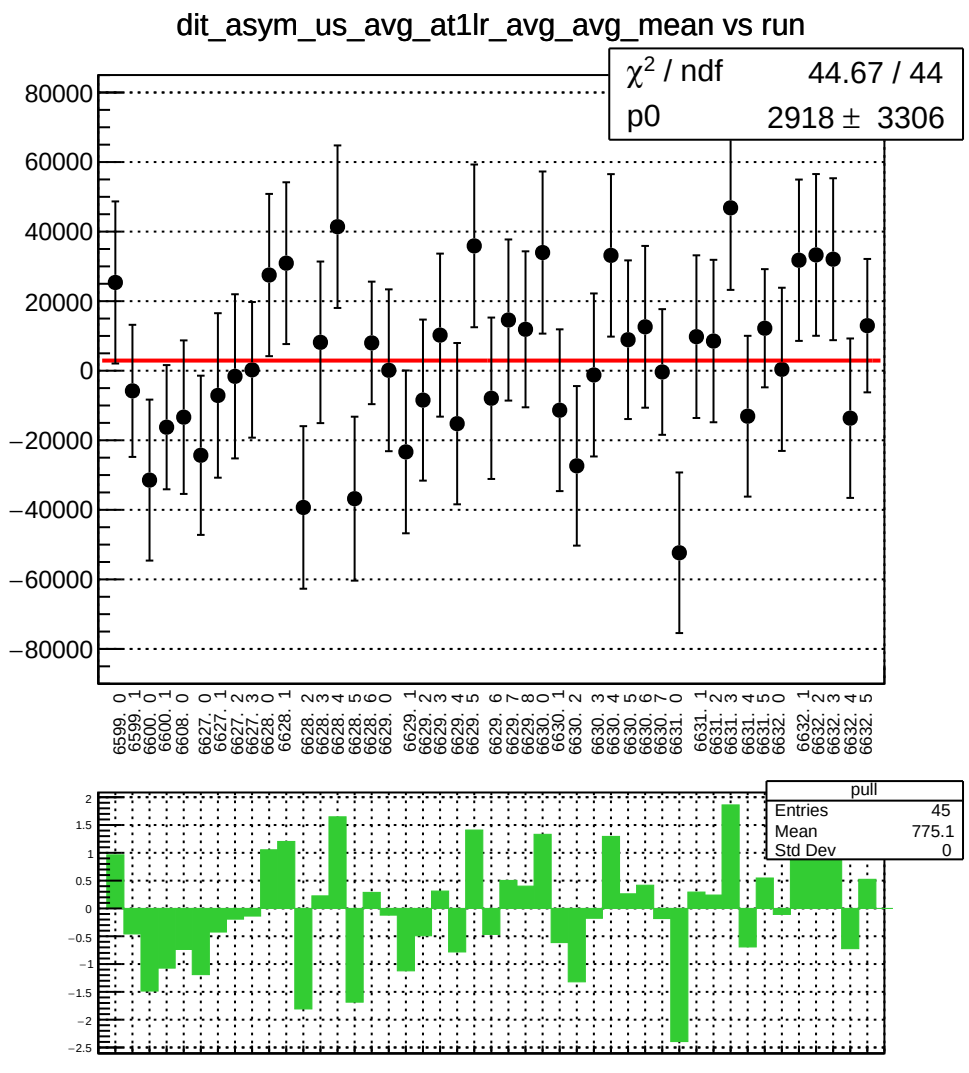

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 47.42 / 44
p0 1886 ± 3307
pull
Entries 45
Mean −553.6
Std Dev 0

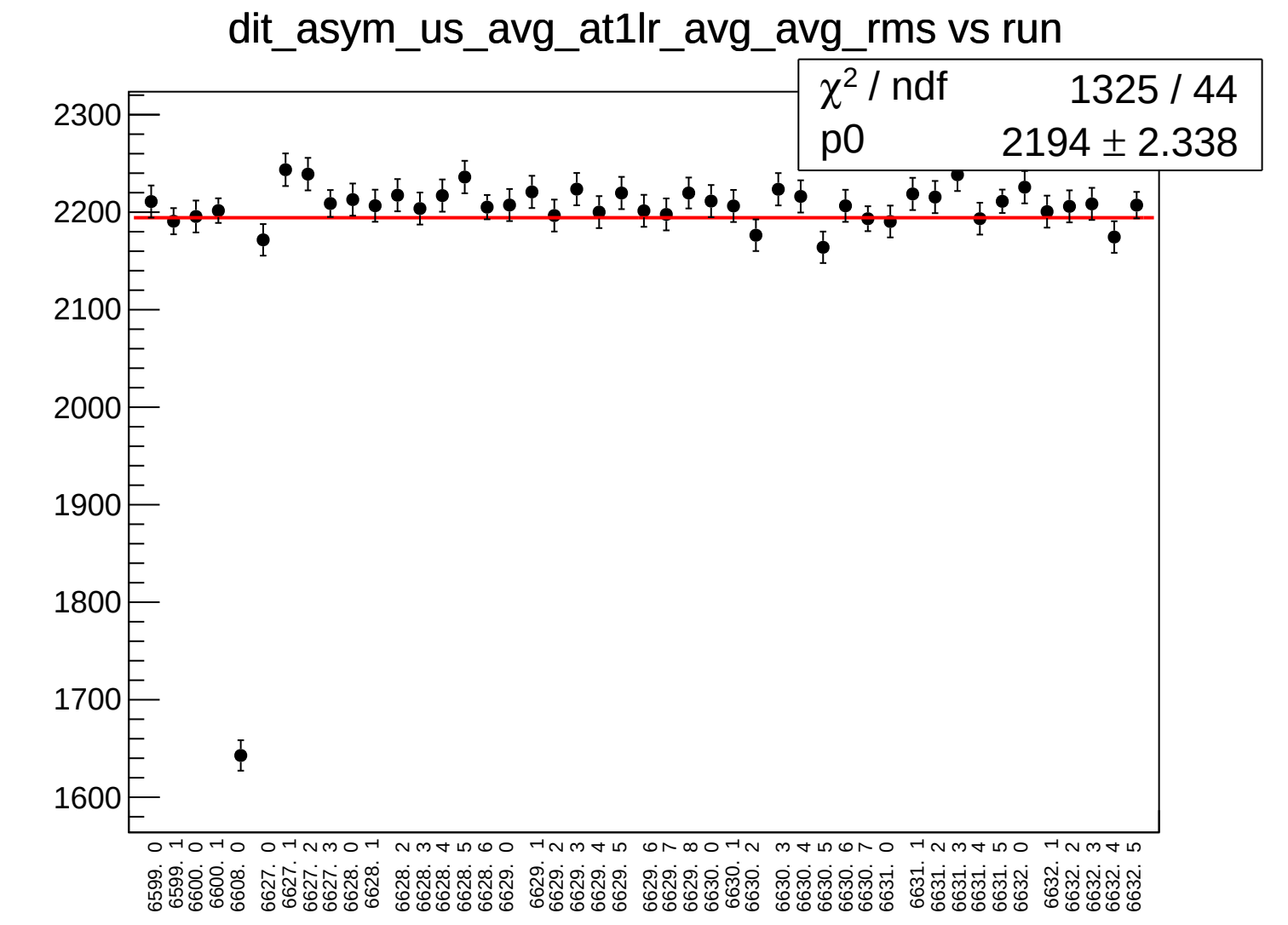

pull1D
Entries 45
Mean −0.006822
Std Dev 1.026

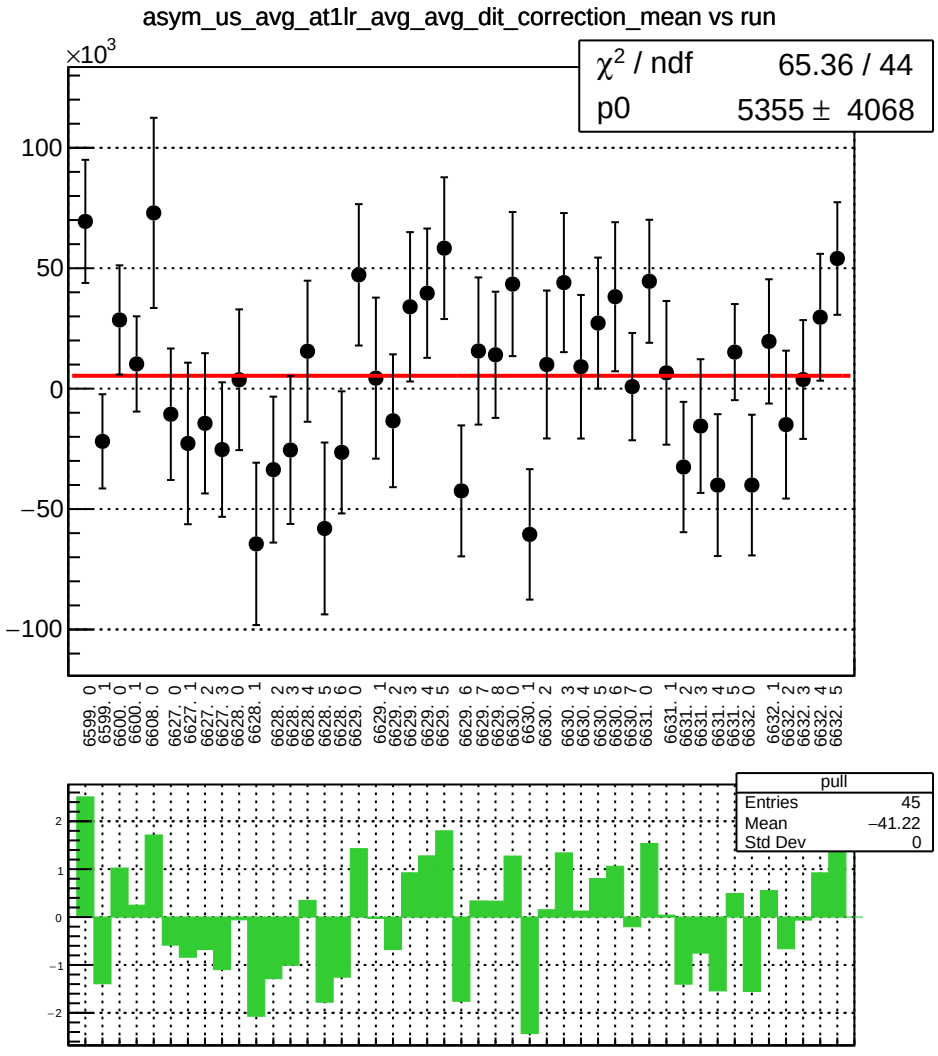

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 40.85 / 44
p0 2197 ± 2.338
2240
2220
2200
2180
2160
2140
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

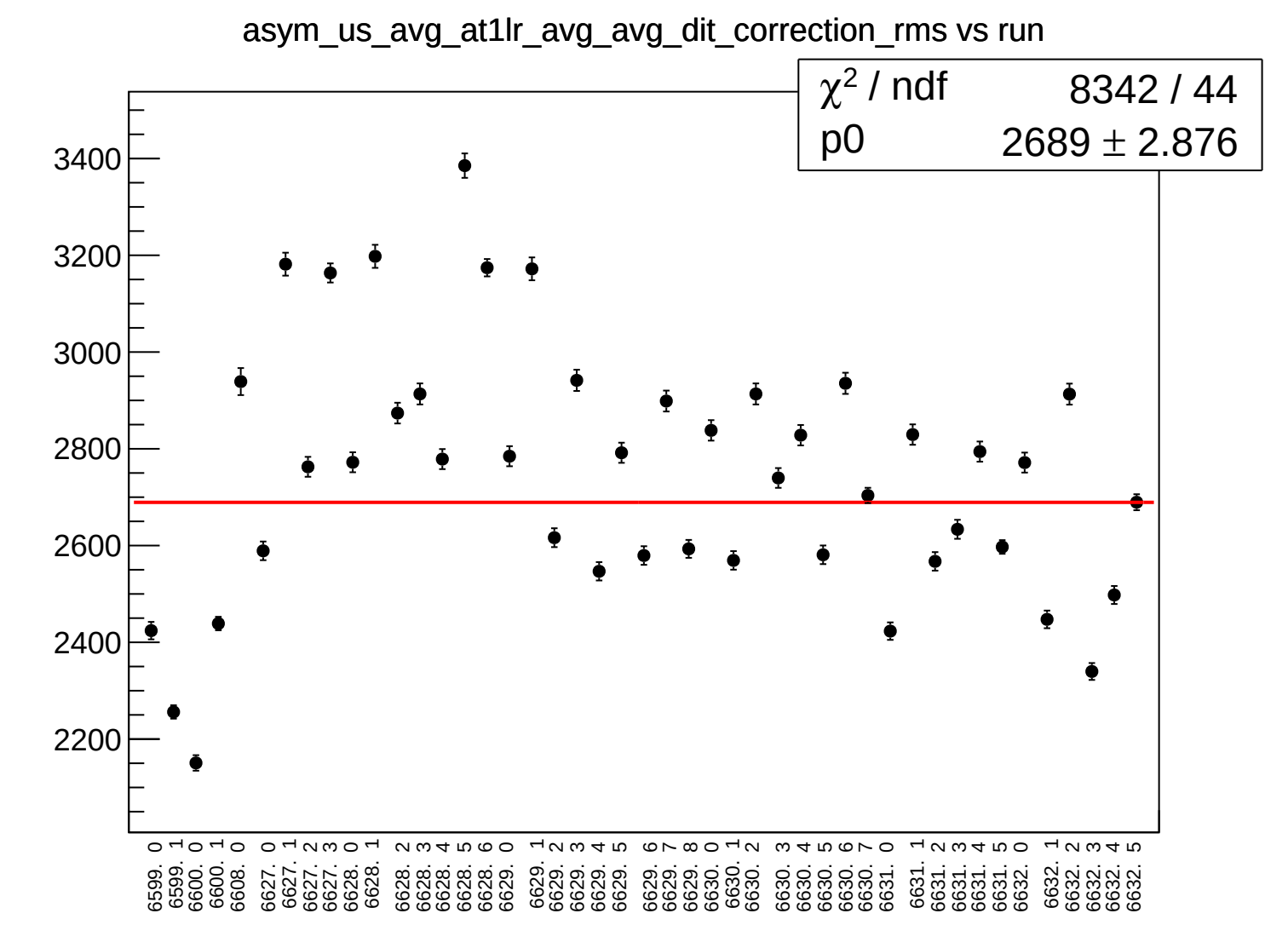

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 61.75 / 44
p0 4583 ± 3870
100
50
0
−50
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −25.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.03282
Std Dev 1.171
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

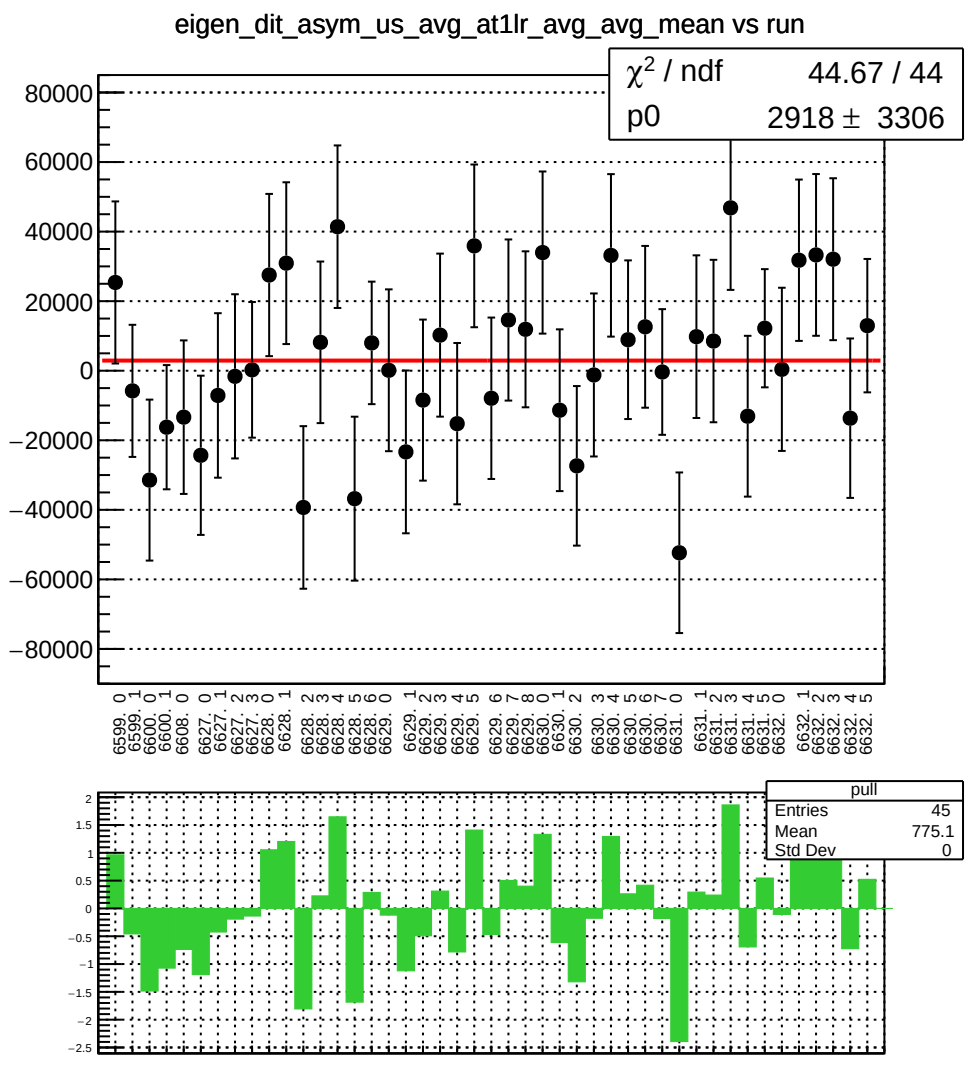

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 9483 / 44
p0 2557 ± 2.736
3200
3000
2800
2600
2400
2200
2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

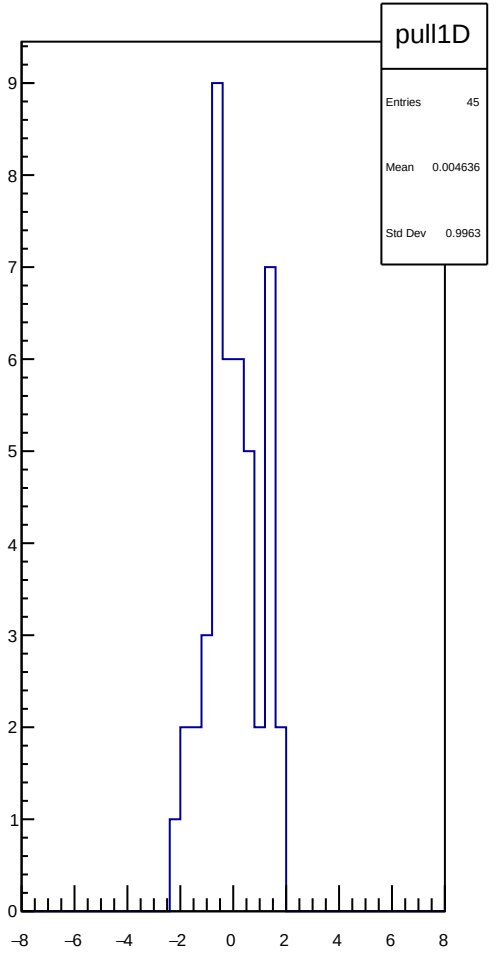

dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 44.67 / 44
p0 2918 ± 3306
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 775.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.004636
Std Dev 0.9963
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

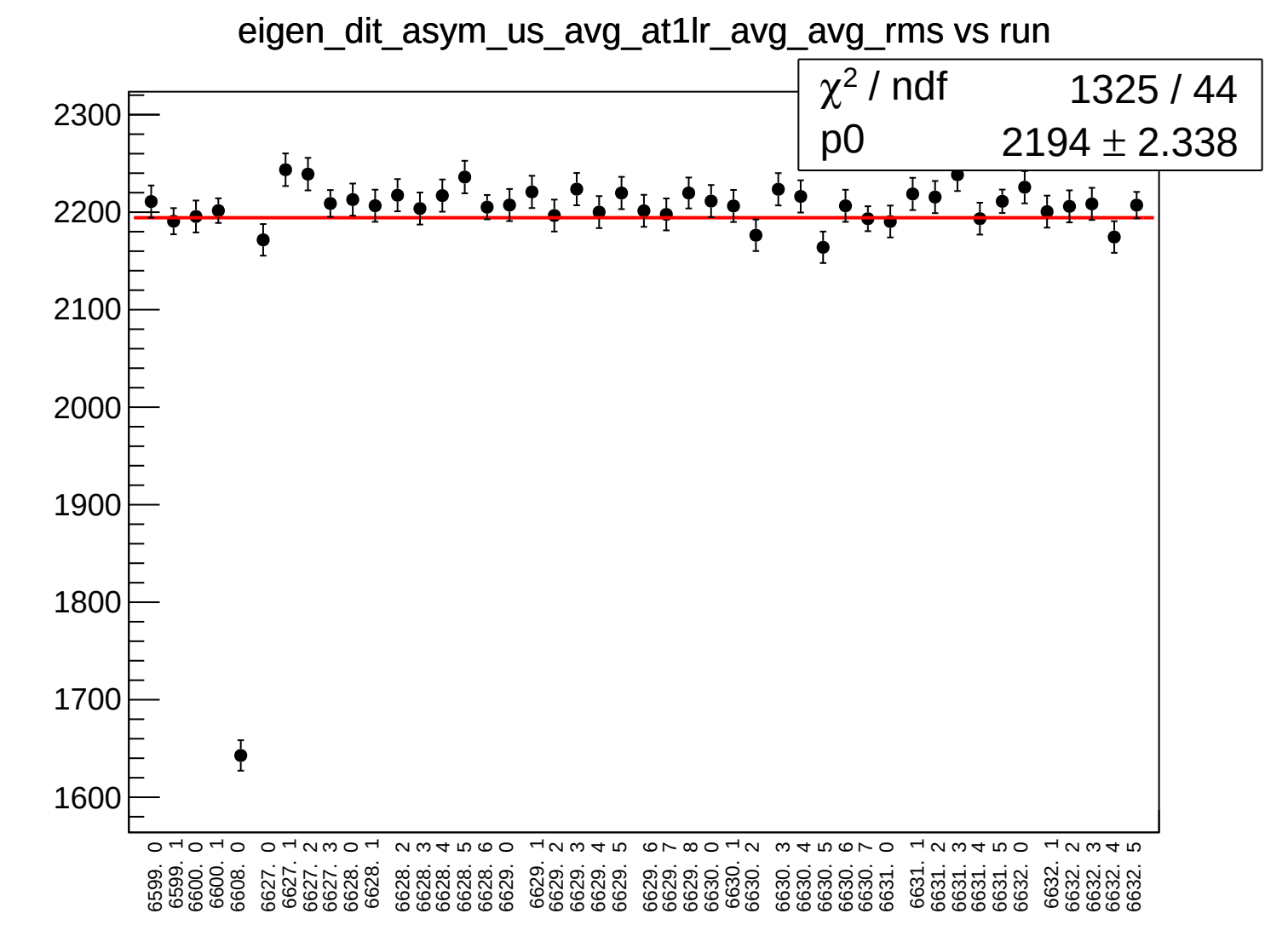

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1325 / 44
p0 2194 ± 2.338
2300
2200
2100
2000
1900
1800
1700
1600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

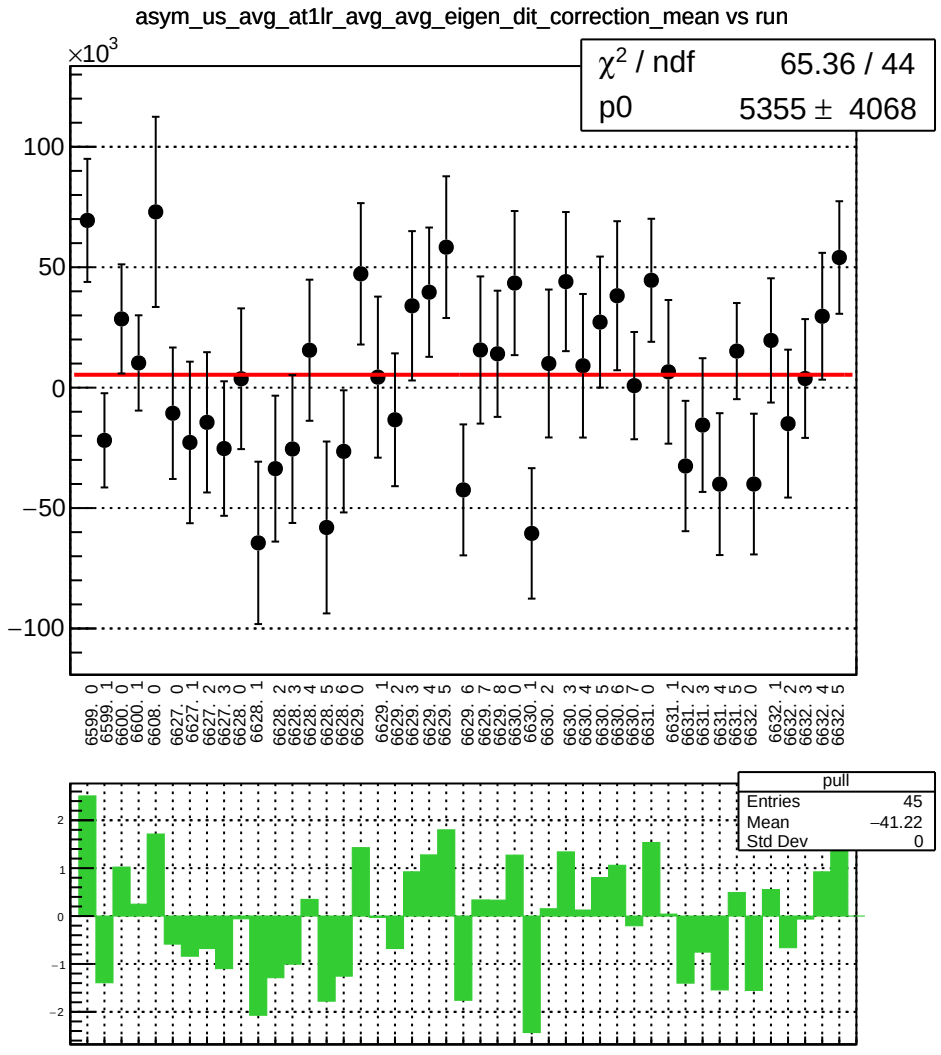

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 65.36 / 44
p0 5355 ± 4068
100
50
0
−50
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −41.22
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01772
Std Dev 1.205
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

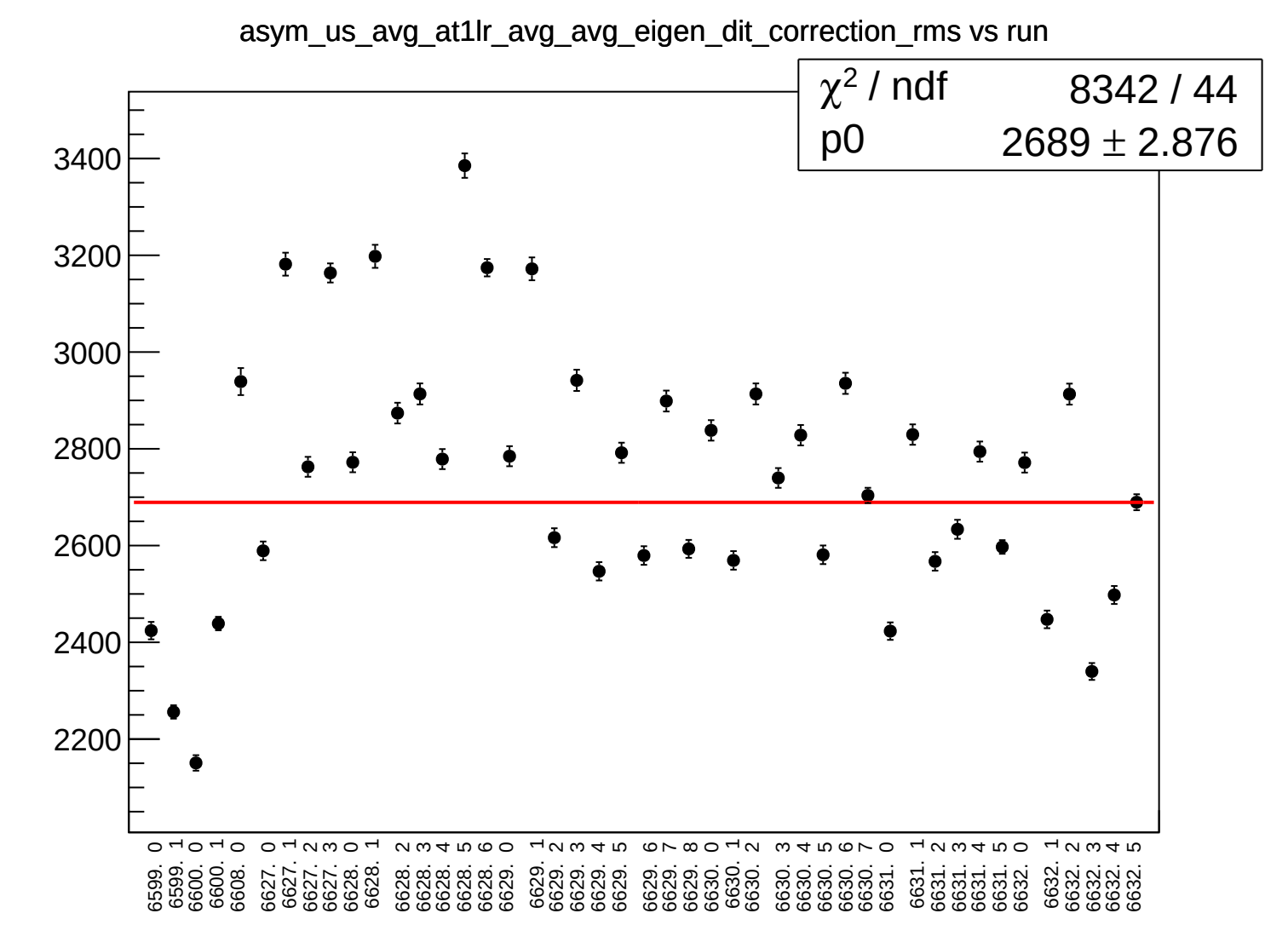

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 8342 / 44
p0 2689 ± 2.876
3400
3200
3000
2800
2600
2400
2200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 44.67 / 44
p0 2918 ± 3306
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 775.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.004636
Std Dev 0.9963
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1325 / 44
p0 2194 ± 2.338
2300
2200
2100
2000
1900
1800
1700
1600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 65.36 / 44
p0 5355 ± 4068
100
50
0
−50
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −41.22
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01772
Std Dev 1.205
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 8342 / 44
p0 2689 ± 2.876
3400
3200
3000
2800
2600
2400
2200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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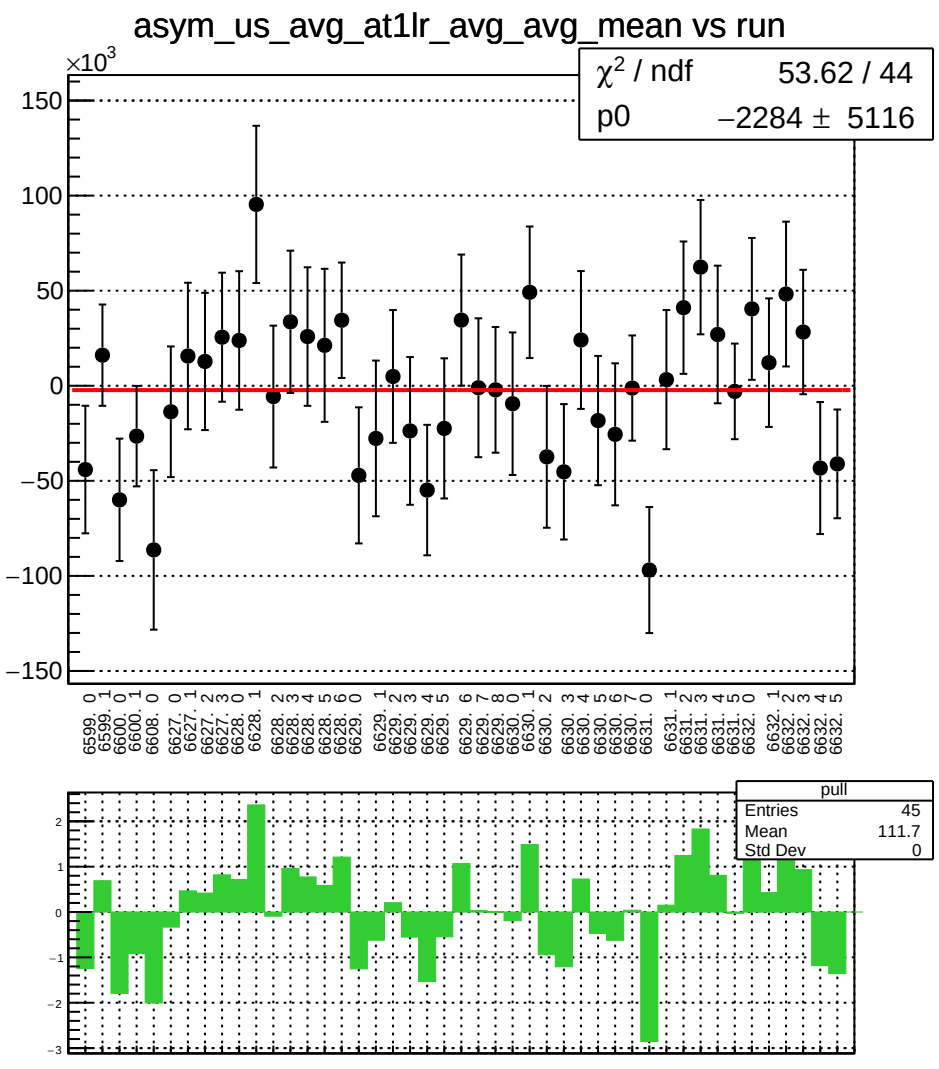
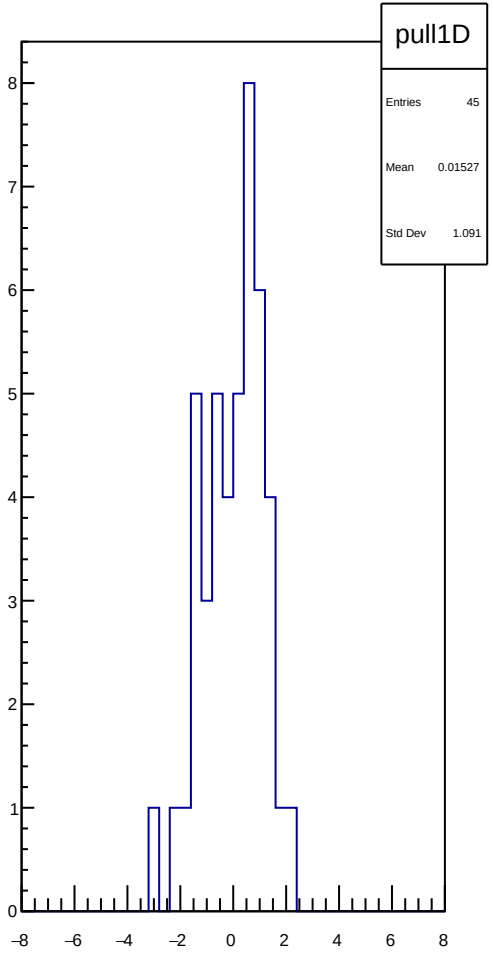
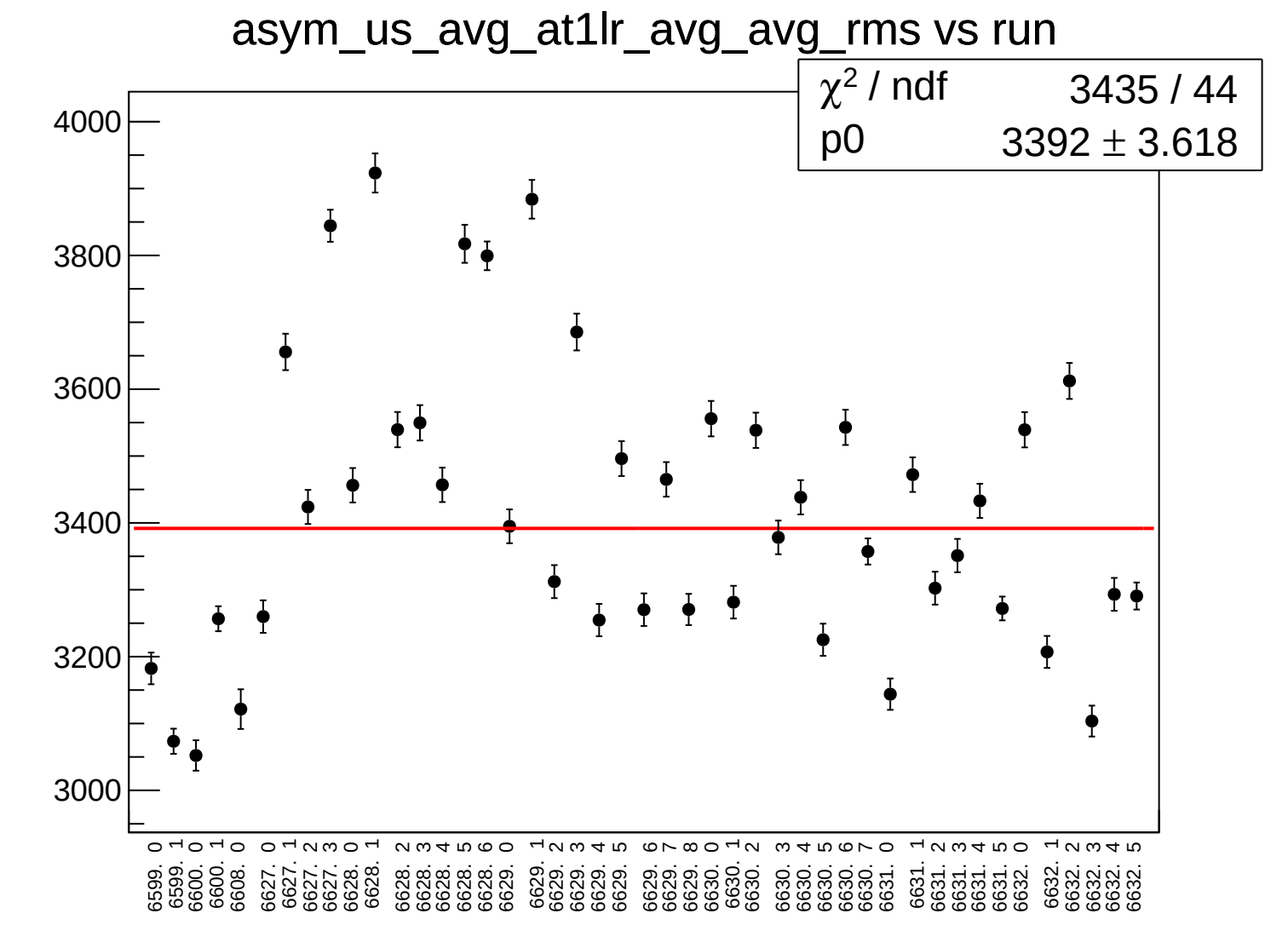
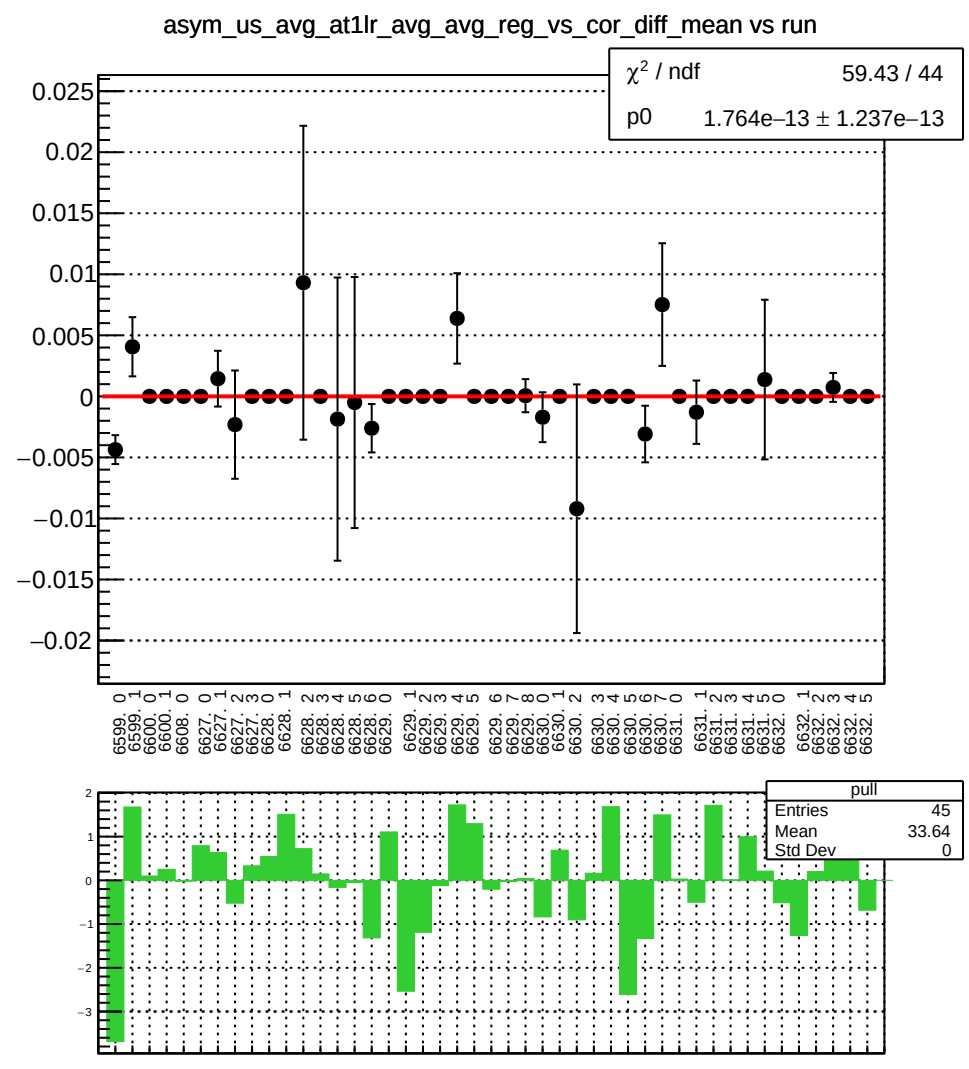
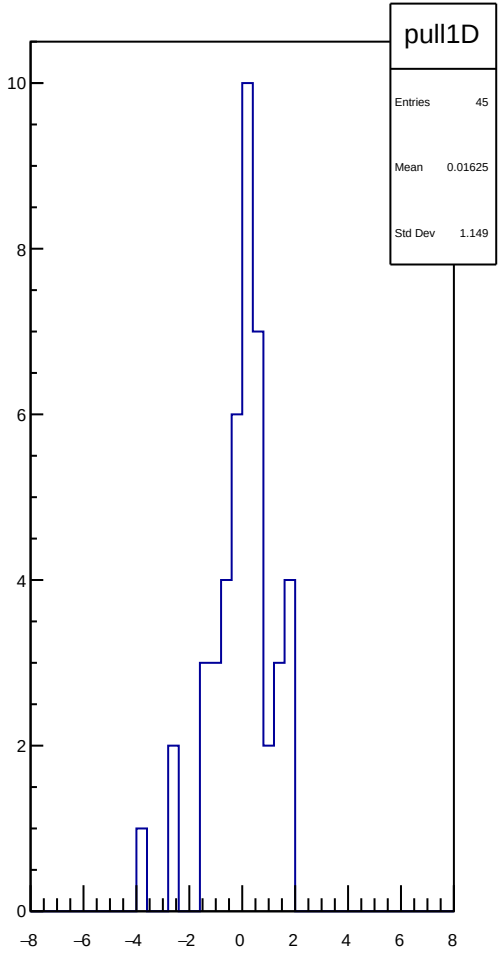
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

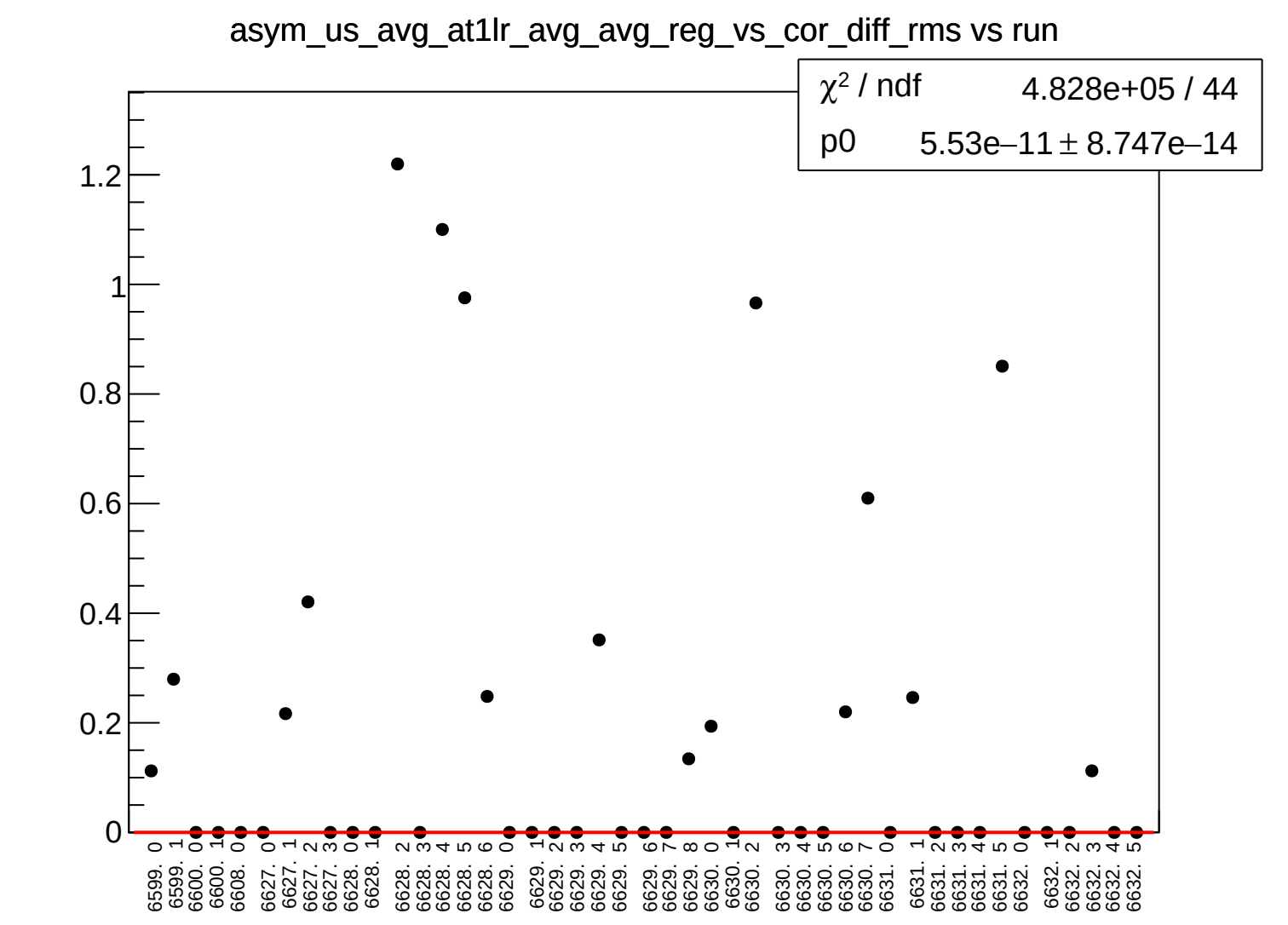

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 53.62 / 44
p0 −2284 ± 5116
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 111.7
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.01527
Std Dev 1.091
8
7
6
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 3435 / 44
p0 3392 ± 3.618
4000
3800
3600
3400
3200
3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 59.43 / 44
p0 1.764e−13 ± 1.237e−13
pull
Entries 45
Mean 33.64
Std Dev 0


pull1D
Entries 45
Mean 0.01625
Std Dev 1.149


asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.828e+05 / 44
p0 5.53e−11 ± 8.747e−14
1.2
1
0.8
0.6
0.4
0.2
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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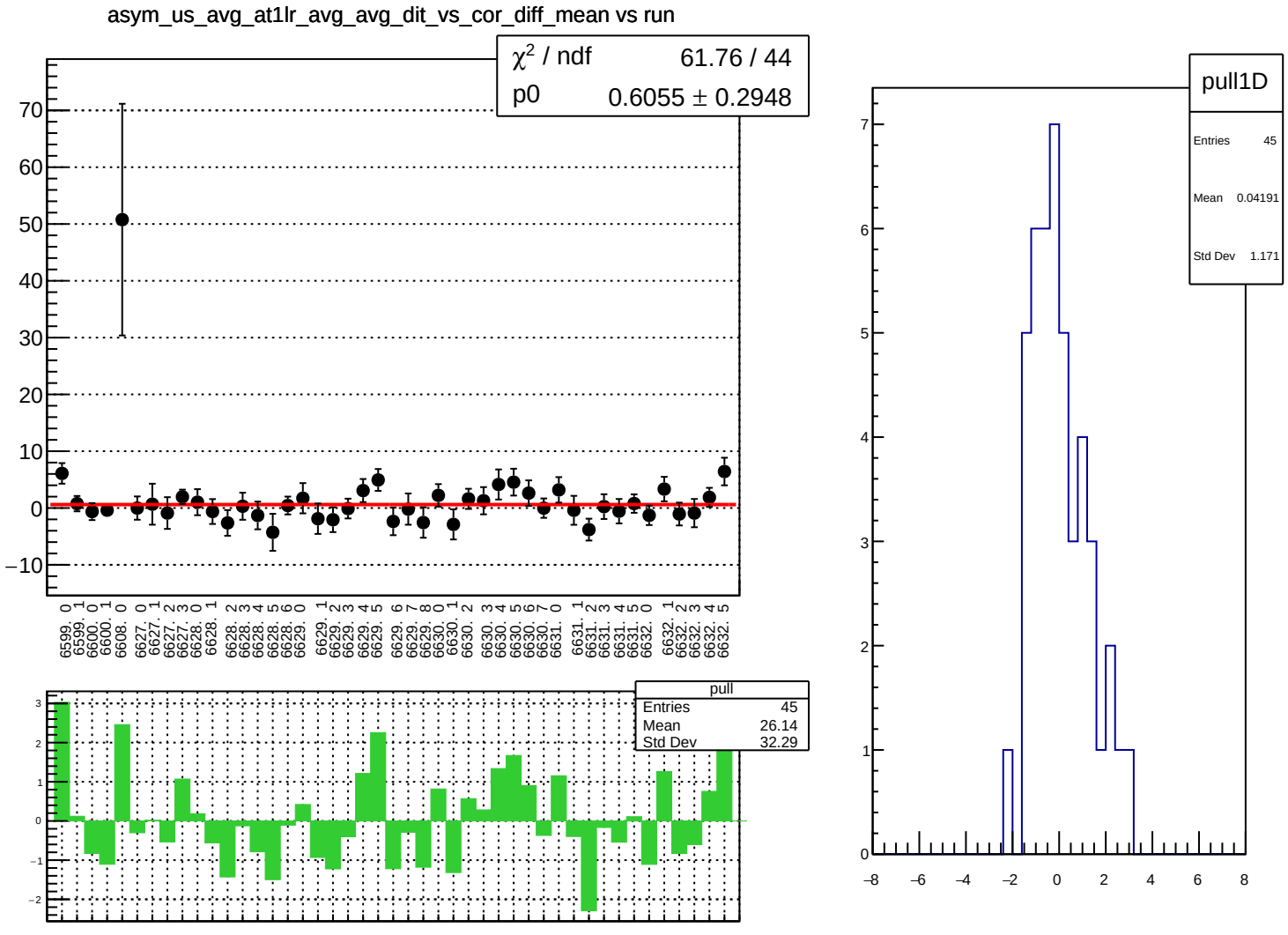
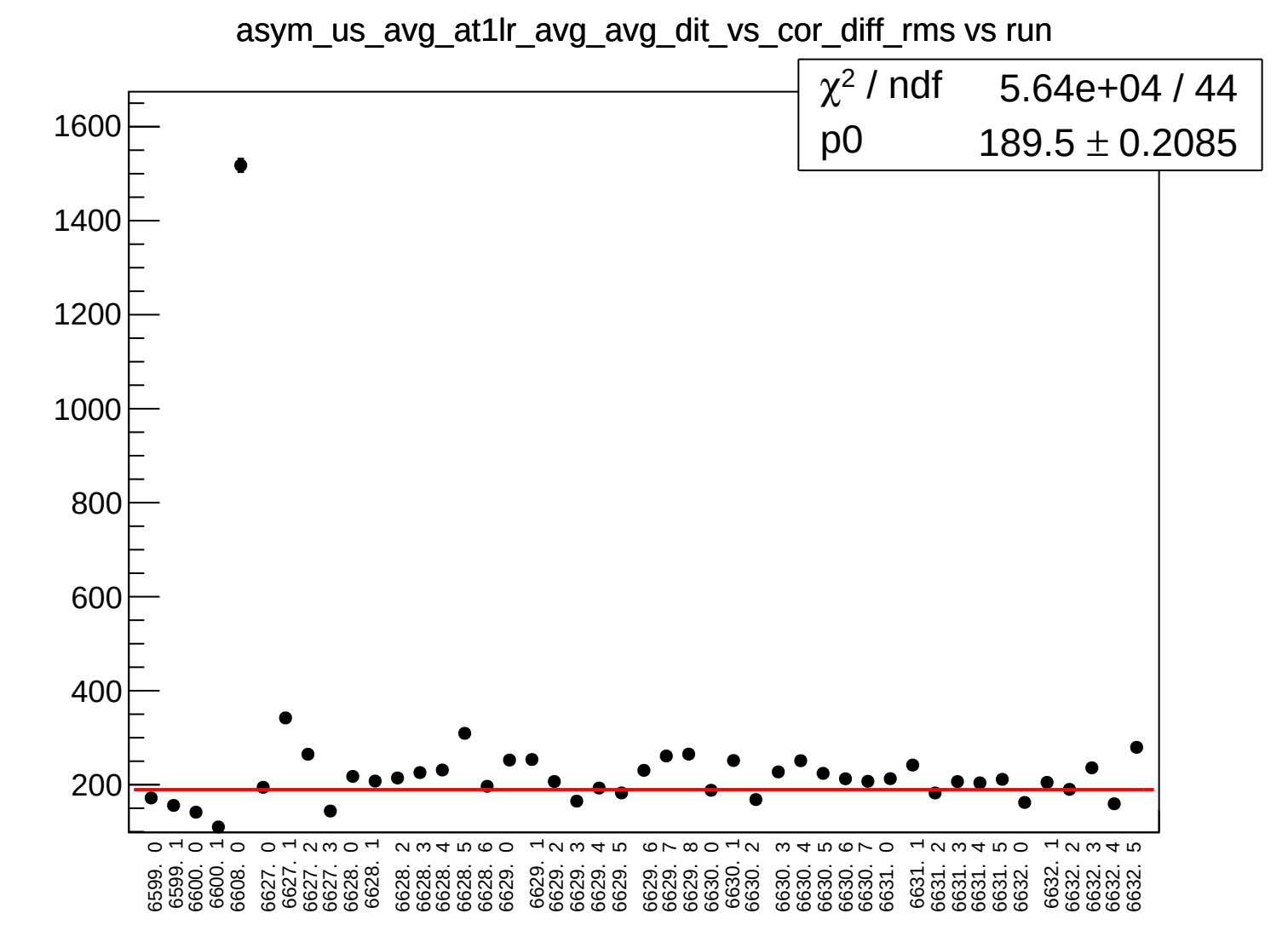
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 61.76 / 44
p0 0.6055 ± 0.2948
pull
Entries 45
Mean 26.14
Std Dev 32.29
pull1D
Entries 45
Mean 0.04191
Std Dev 1.171


asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.64e+04 / 44
p0 189.5 ± 0.2085
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
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6632. 0
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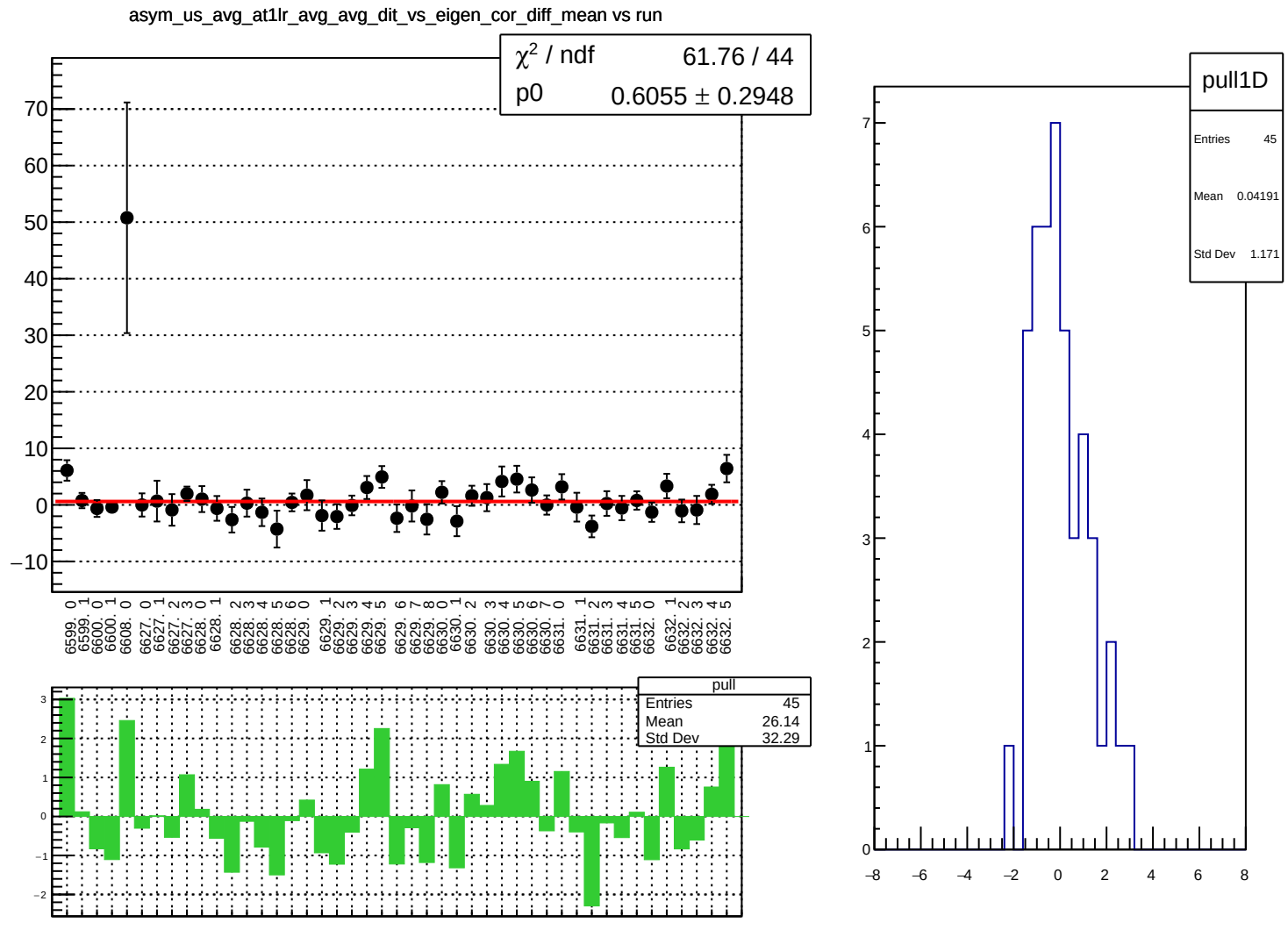
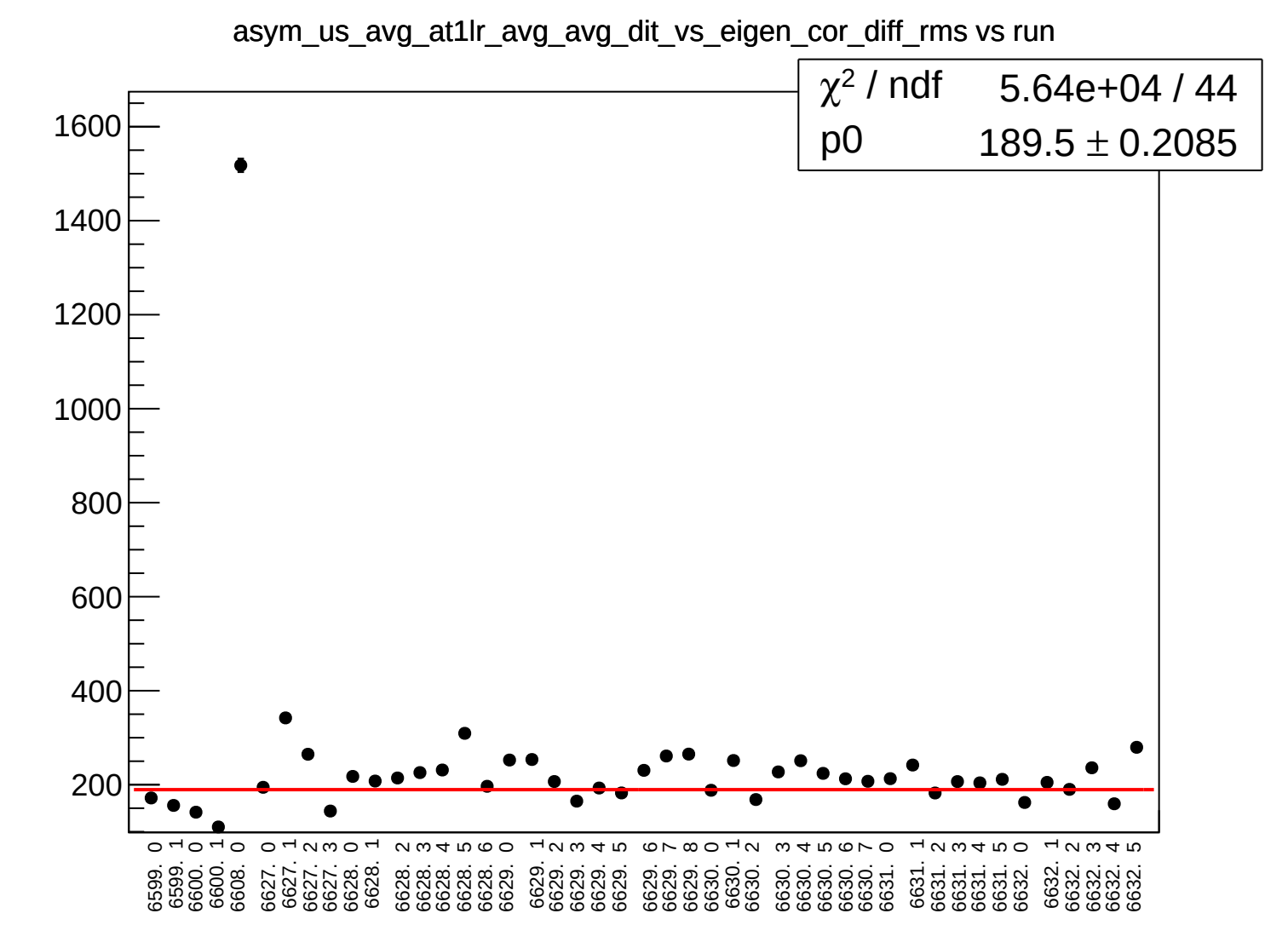
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.76 / 44
p0 0.6055 ± 0.2948
pull
Entries 45
Mean 26.14
Std Dev 32.29
pull1D
Entries 45
Mean 0.04191
Std Dev 1.171


asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.64e+04 / 44
p0 189.5 ± 0.2085
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
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6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6632. 2
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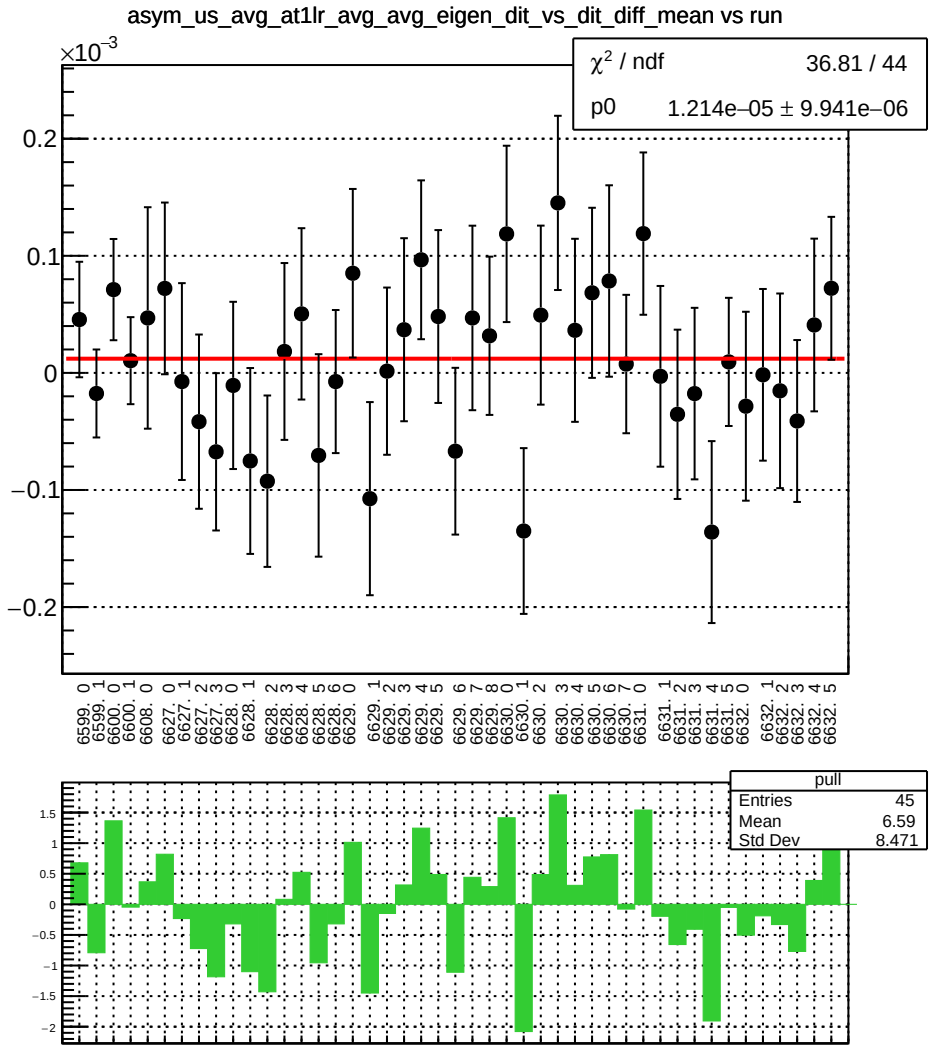
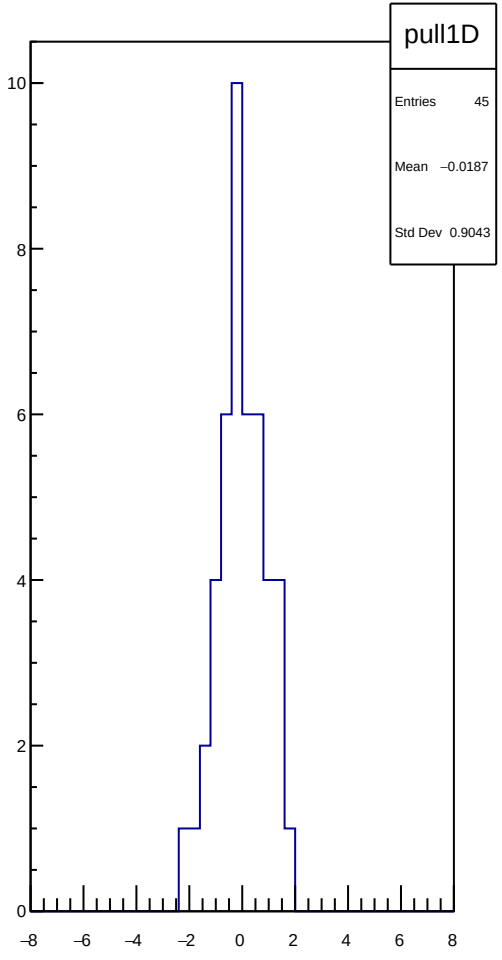
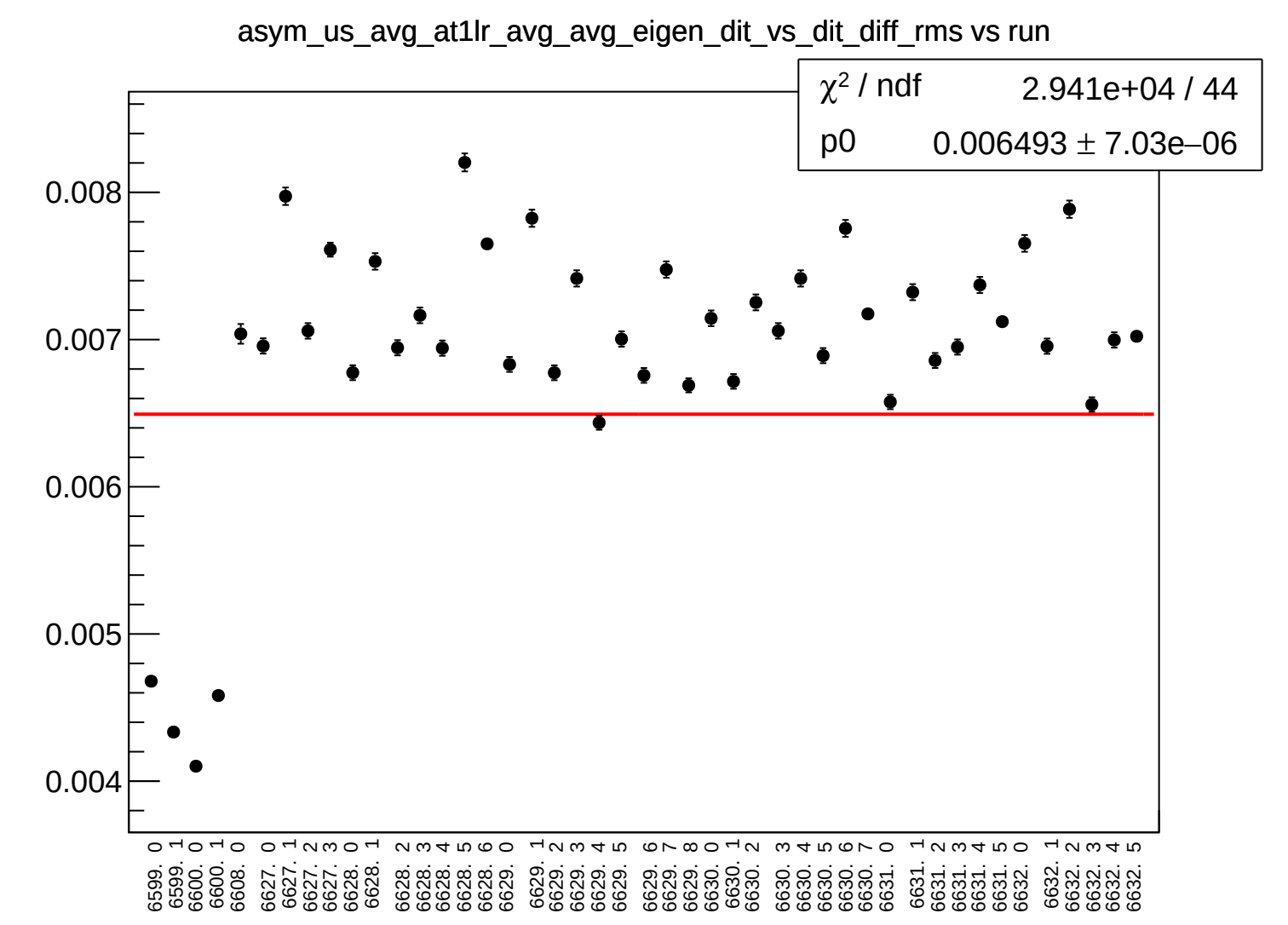
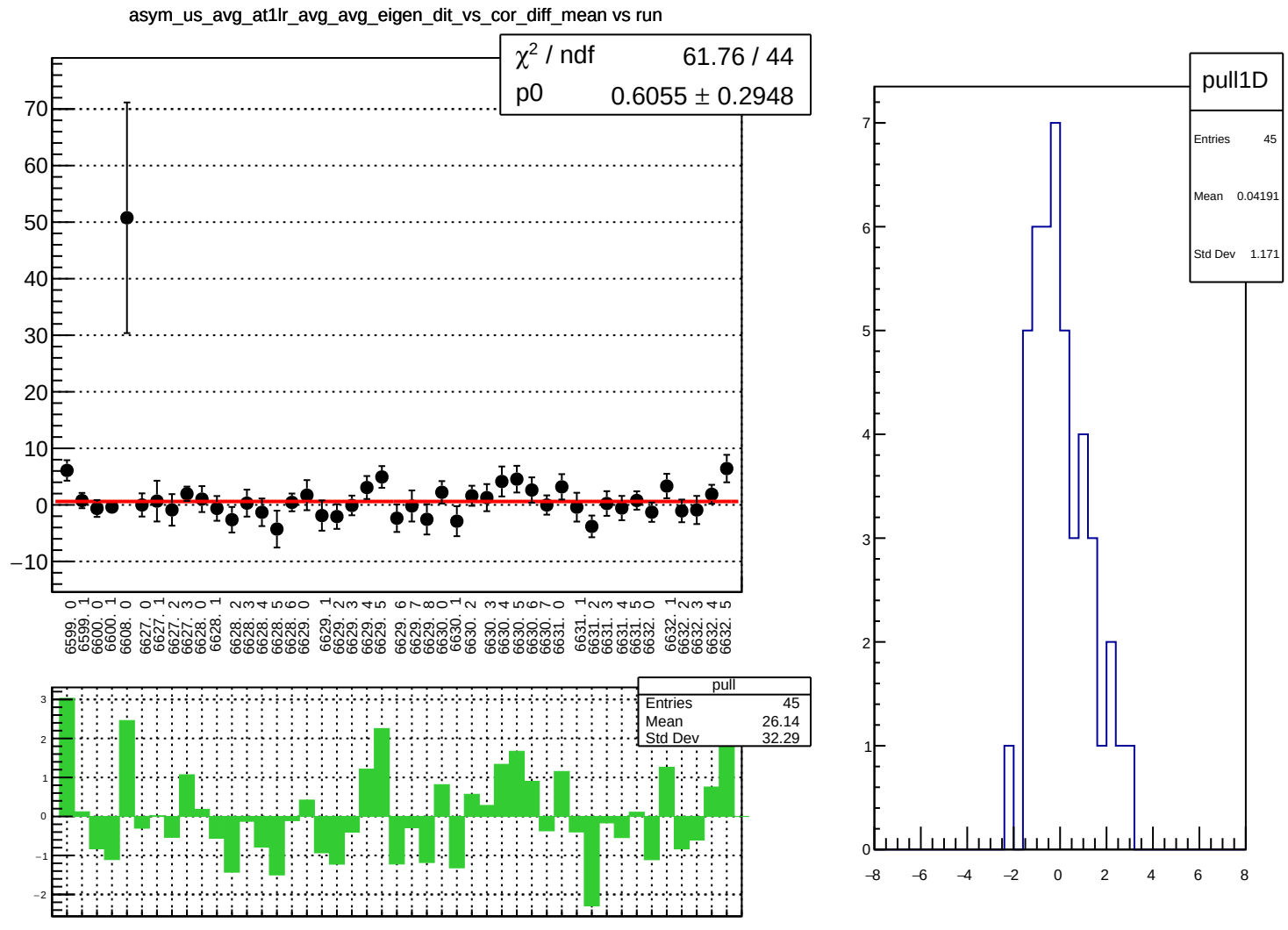
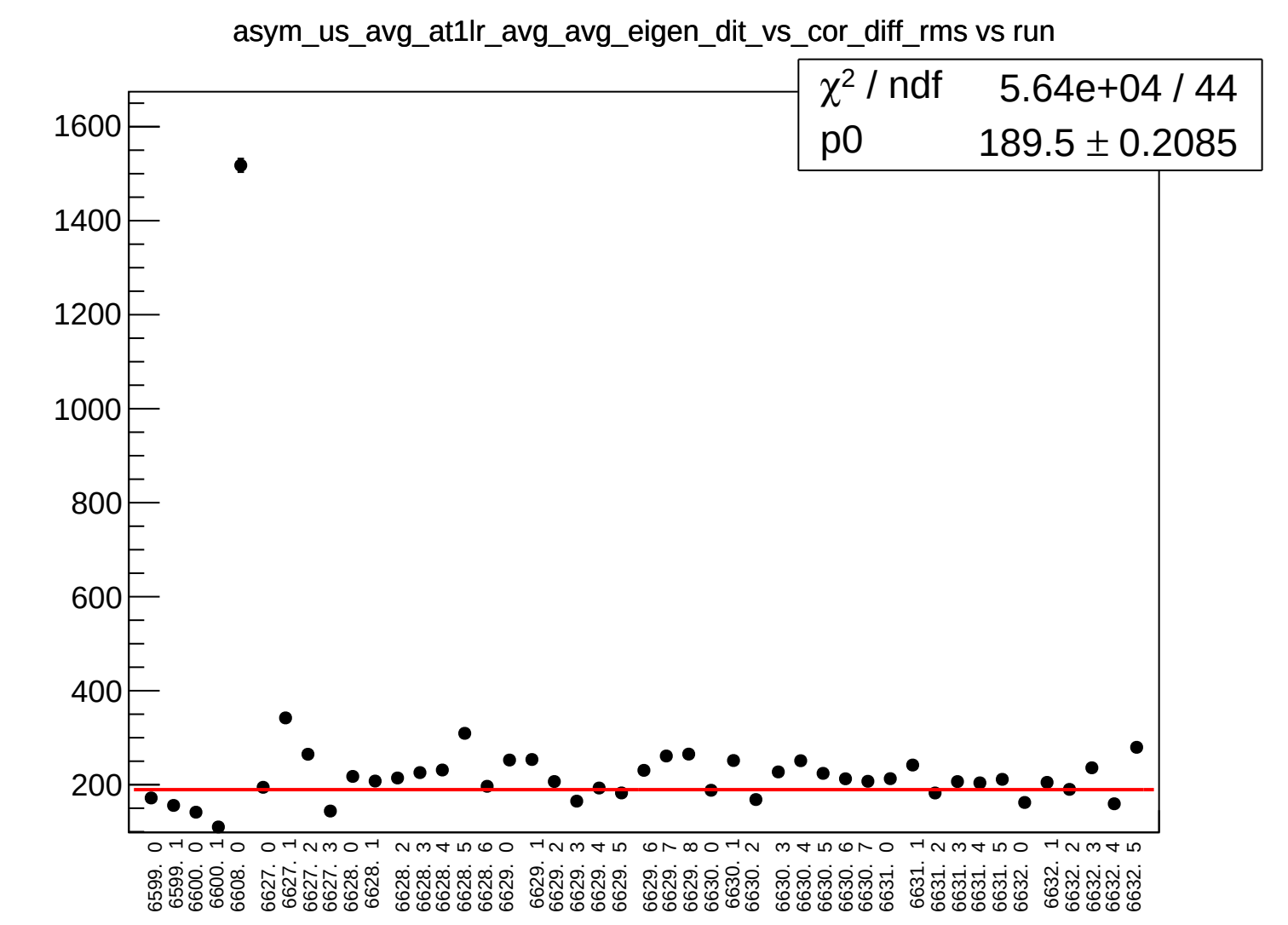
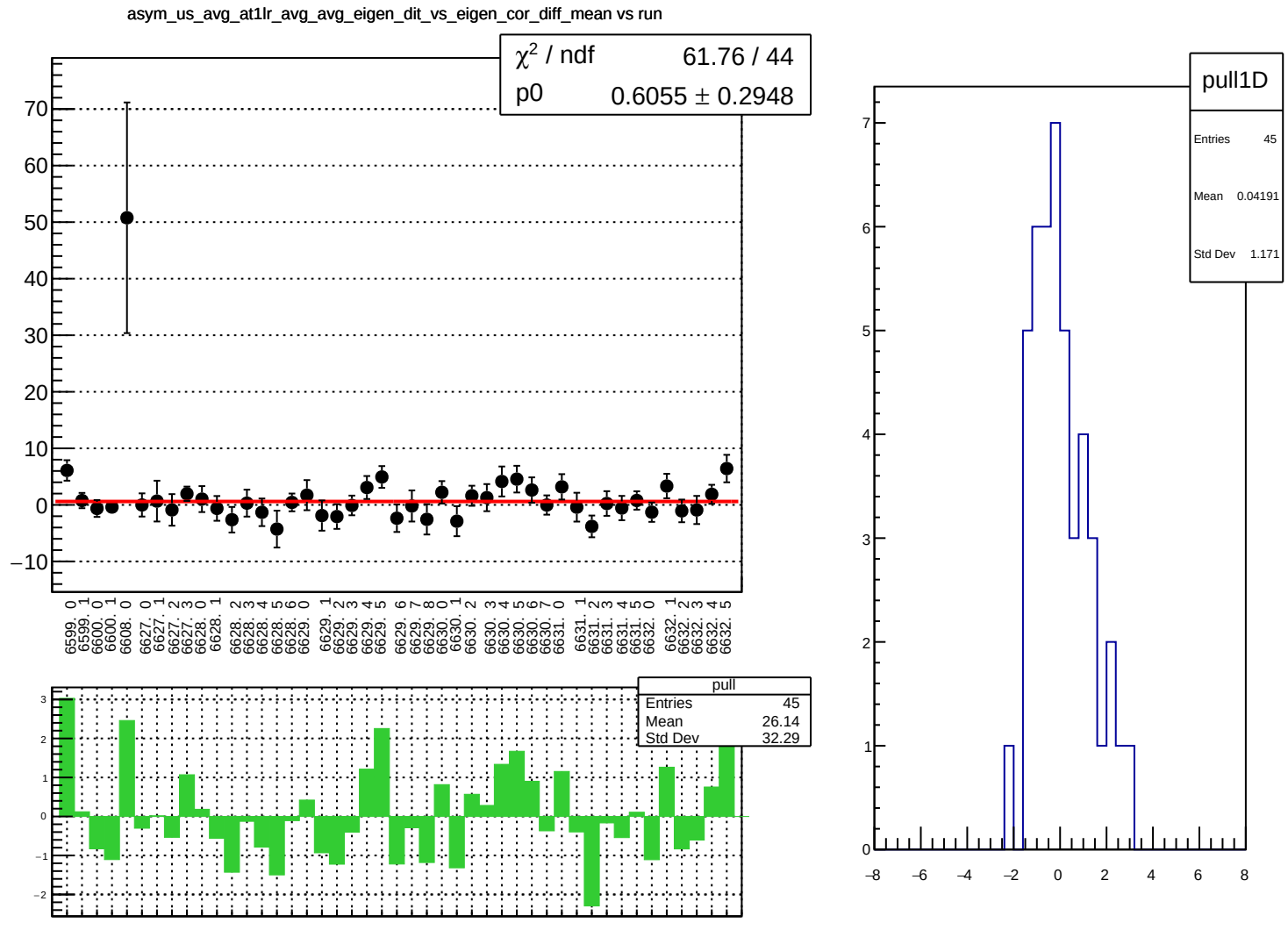

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 36.81 / 44
p0 1.214e−05 ± 9.941e−06
0.2
0.1
0
−0.1
−0.2
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 6.59
Std Dev 8.471
1.5
1
0.5
0
−0.5
−1
−1.5
−2

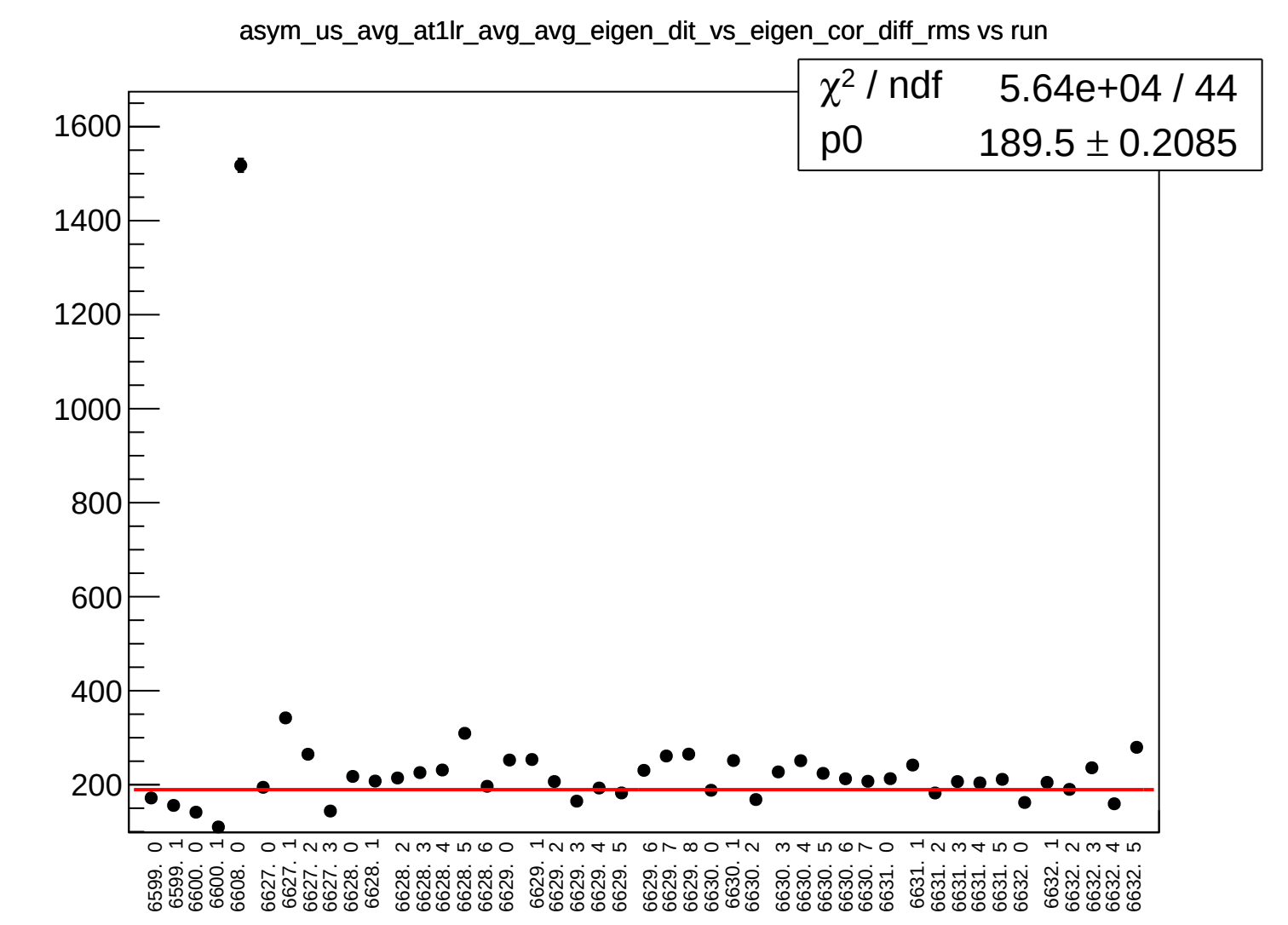

pull1D
Entries 45
Mean −0.0187
Std Dev 0.9043
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

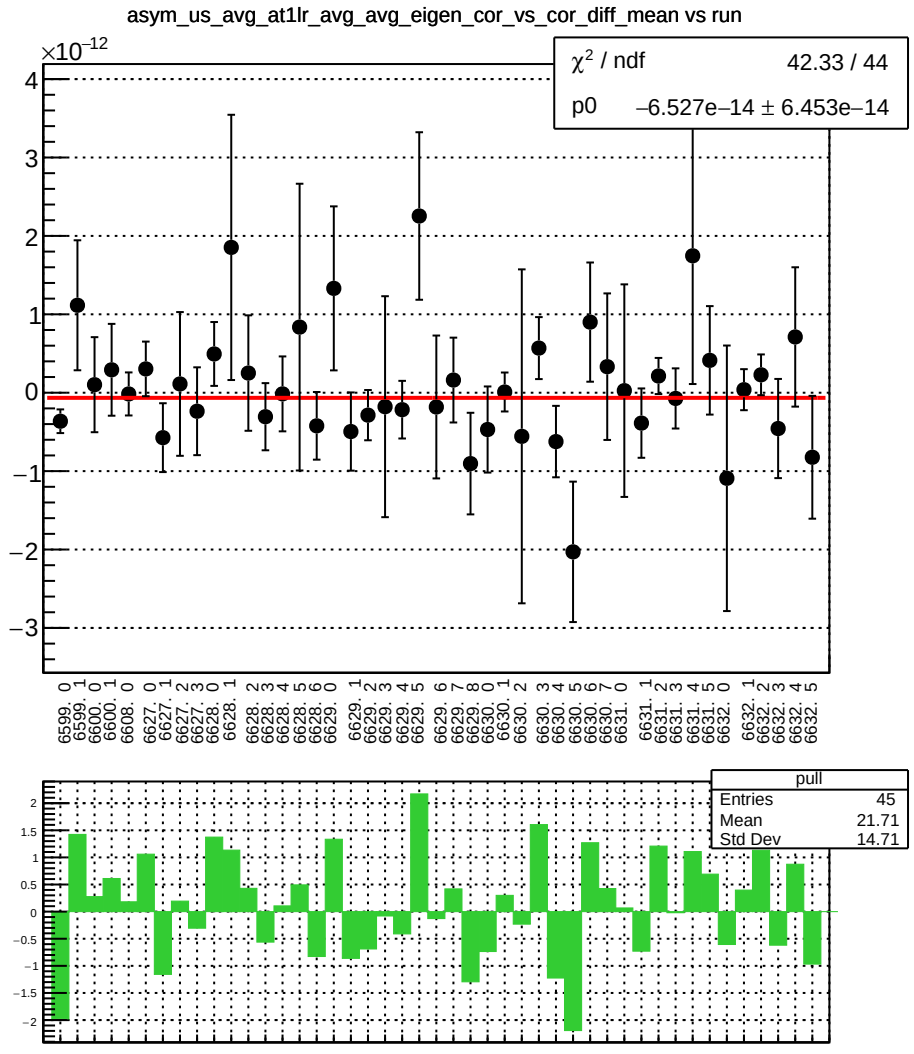

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.941e+04 / 44
p0 0.006493 ± 7.03e−06
0.008
0.007
0.006
0.005
0.004
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

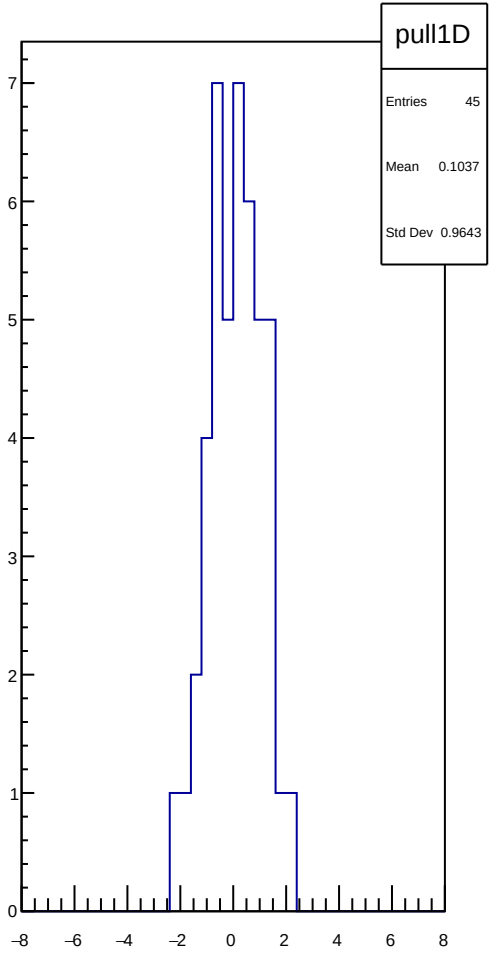

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 61.76 / 44
p0 0.6055 ± 0.2948
pull
Entries 45
Mean 26.14
Std Dev 32.29
pull1D
Entries 45
Mean 0.04191
Std Dev 1.171

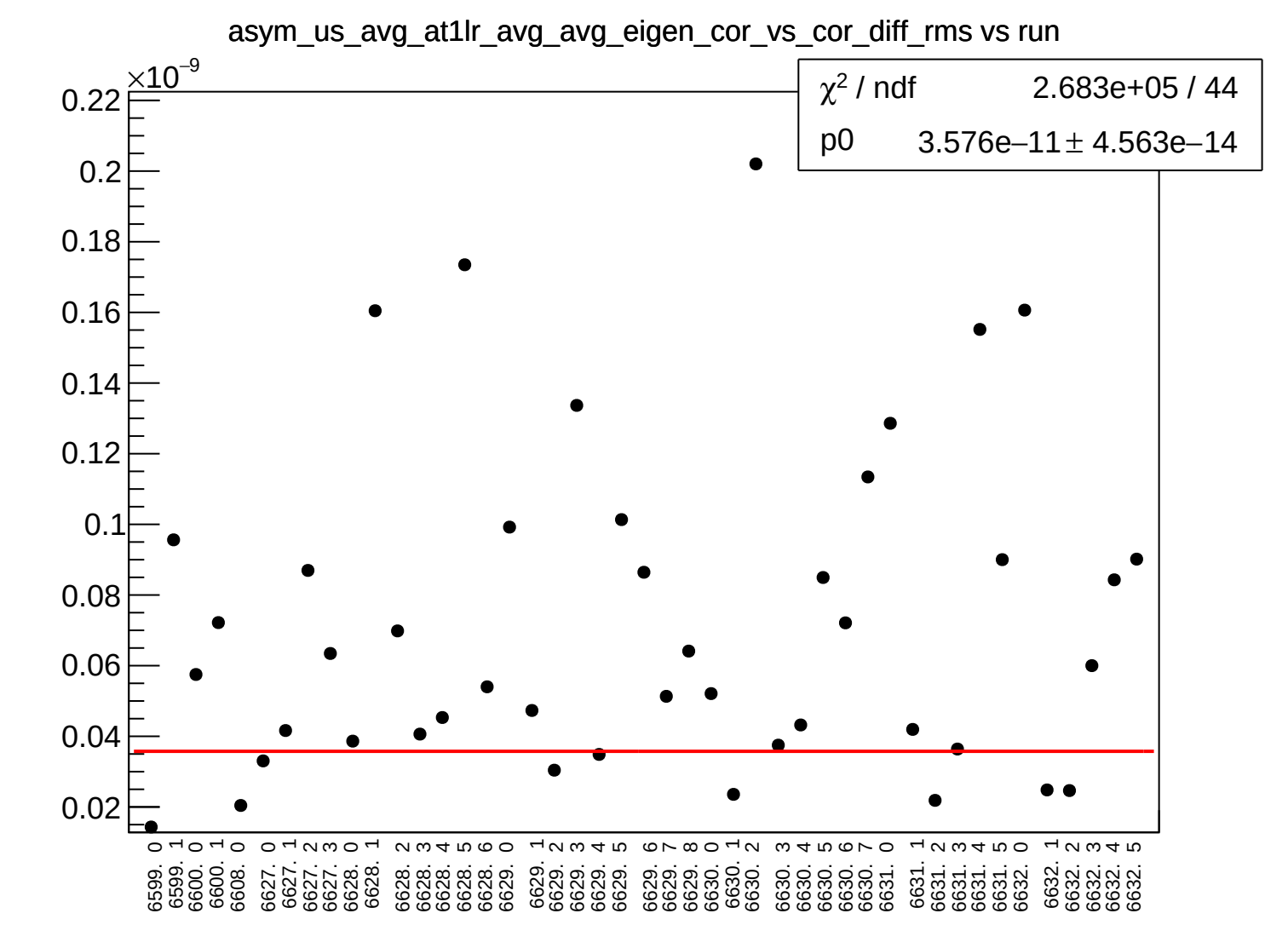

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.64e+04 / 44
p0 189.5 ± 0.2085
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

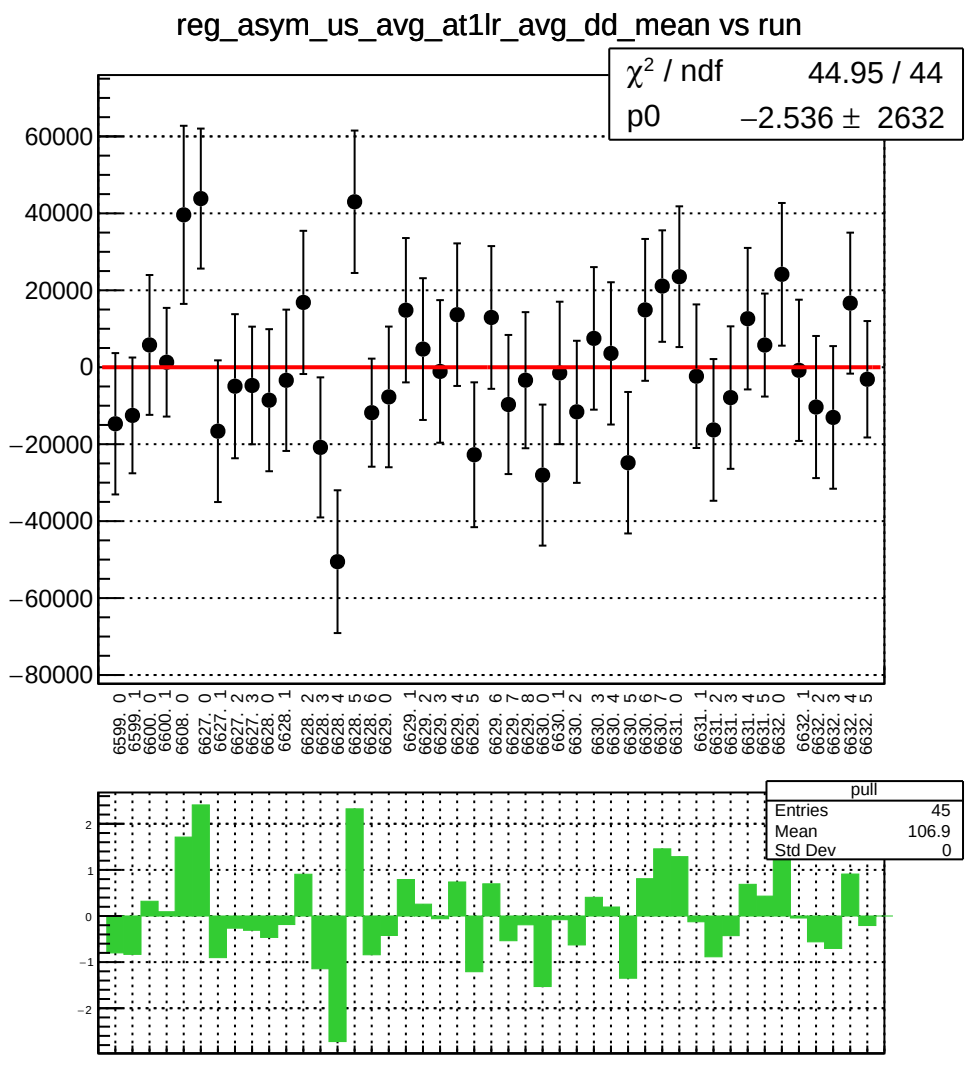

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.76 / 44
p0 0.6055 ± 0.2948
pull
Entries 45
Mean 26.14
Std Dev 32.29
pull1D
Entries 45
Mean 0.04191
Std Dev 1.171

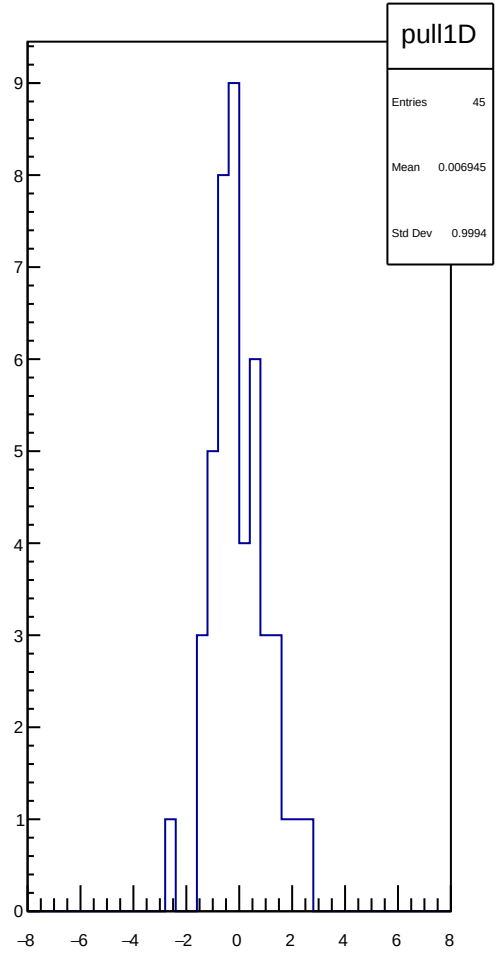

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.64e+04 / 44
p0 189.5 ± 0.2085
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

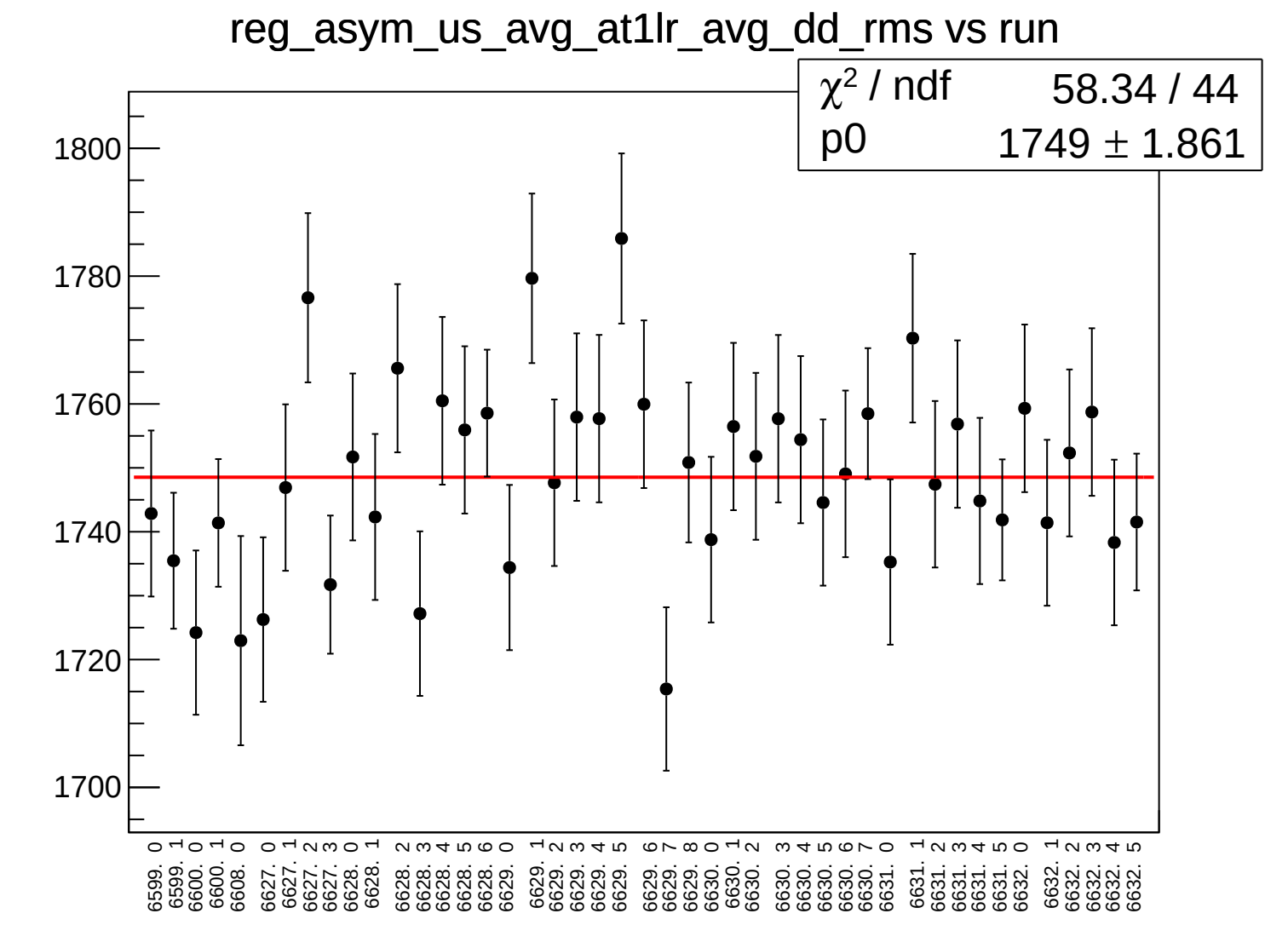

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 42.33 / 44
p0 −6.527e−14 ± 6.453e−14
pull
Entries 45
Mean 21.71
Std Dev 14.71


pull1D
Entries 45
Mean 0.1037
Std Dev 0.9643


asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.683e+05 / 44
p0 3.576e−11 ± 4.563e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 44.95 / 44
p0 −2.536 ± 2632
pull
Entries 45
Mean 106.9
Std Dev 0


pull1D
Entries 45
Mean 0.006945
Std Dev 0.9994


reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 58.34 / 44
p0 1749 ± 1.861
1800
1780
1760
1740
1720
1700
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 6
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6630. 0
6630. 1
6630. 2
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6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 5
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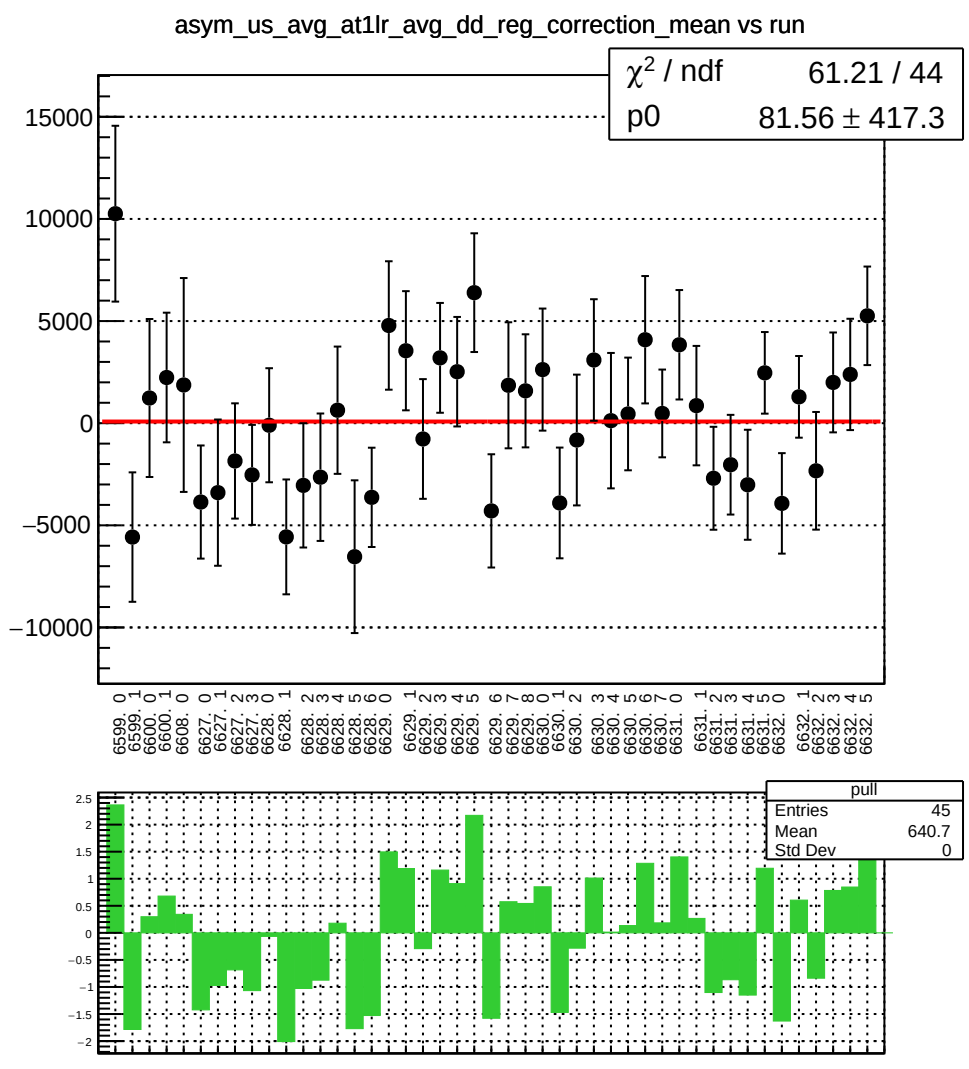
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 61.21 / 44
p0 81.56 ± 417.3
15000
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
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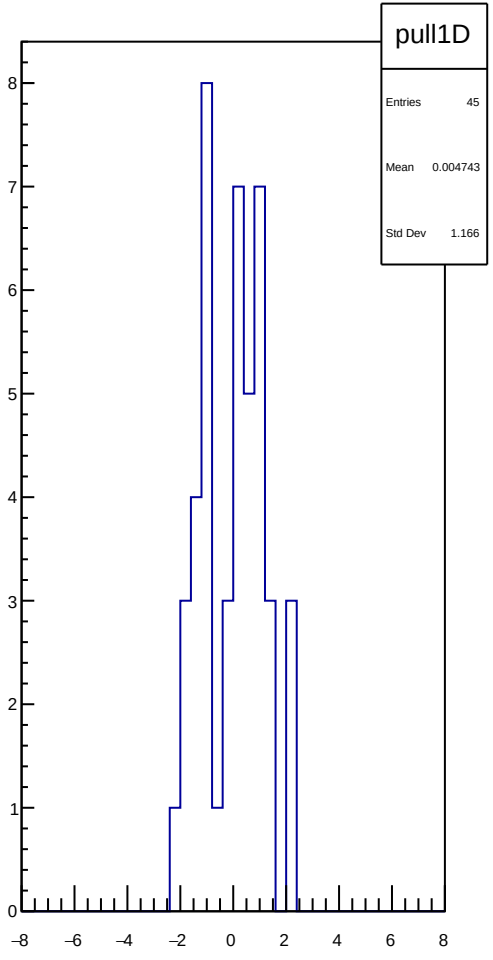
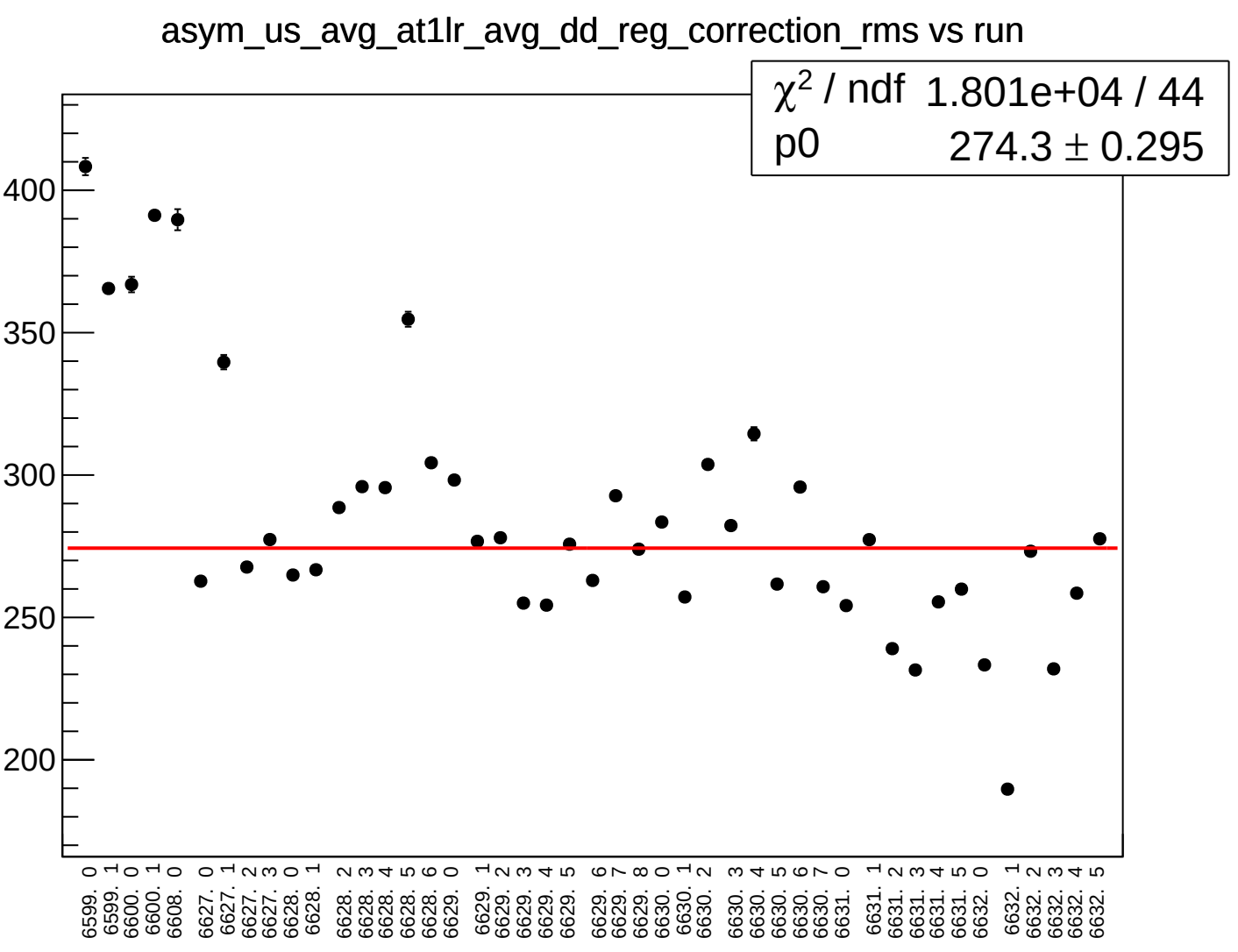
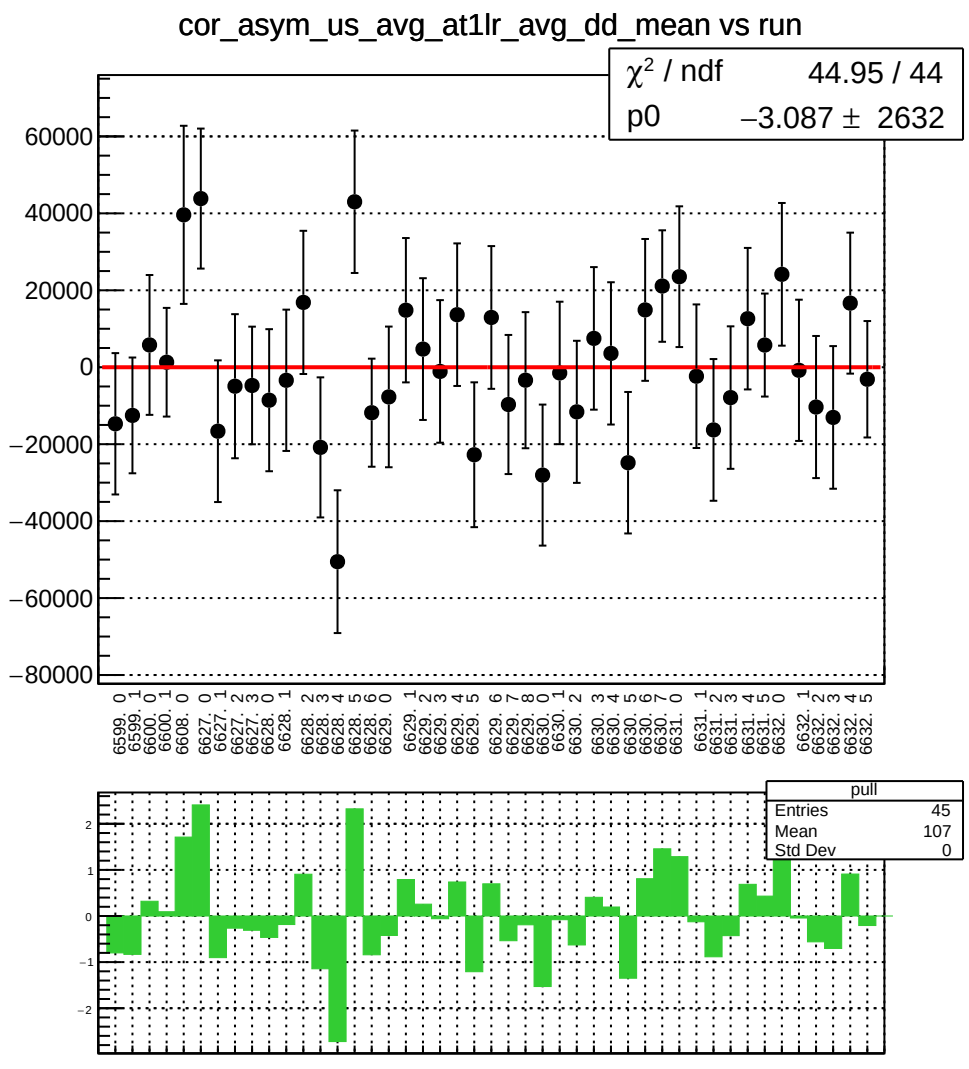
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 640.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.004743
Std Dev 1.166
8
7
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 1.801e+04 / 44
p0 274.3 ± 0.295
400
350
300
250
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 44.95 / 44
p0 −3.087 ± 2632
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
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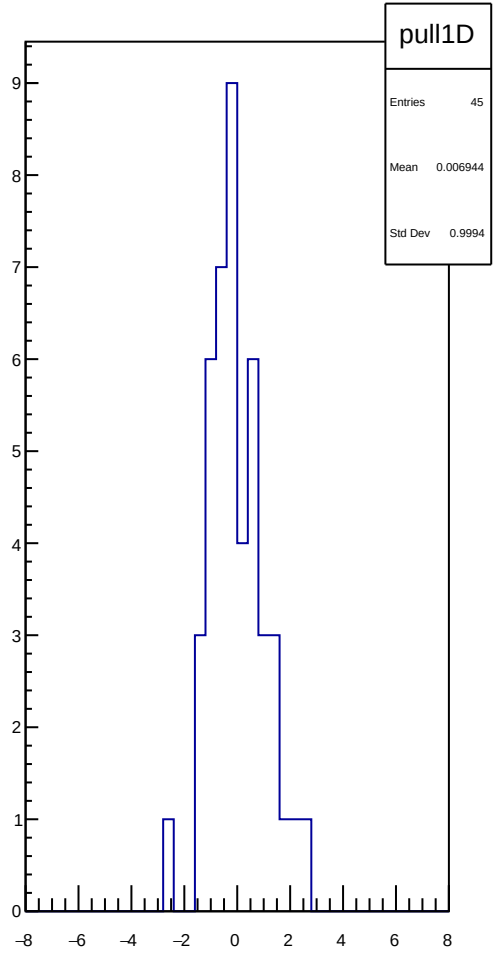
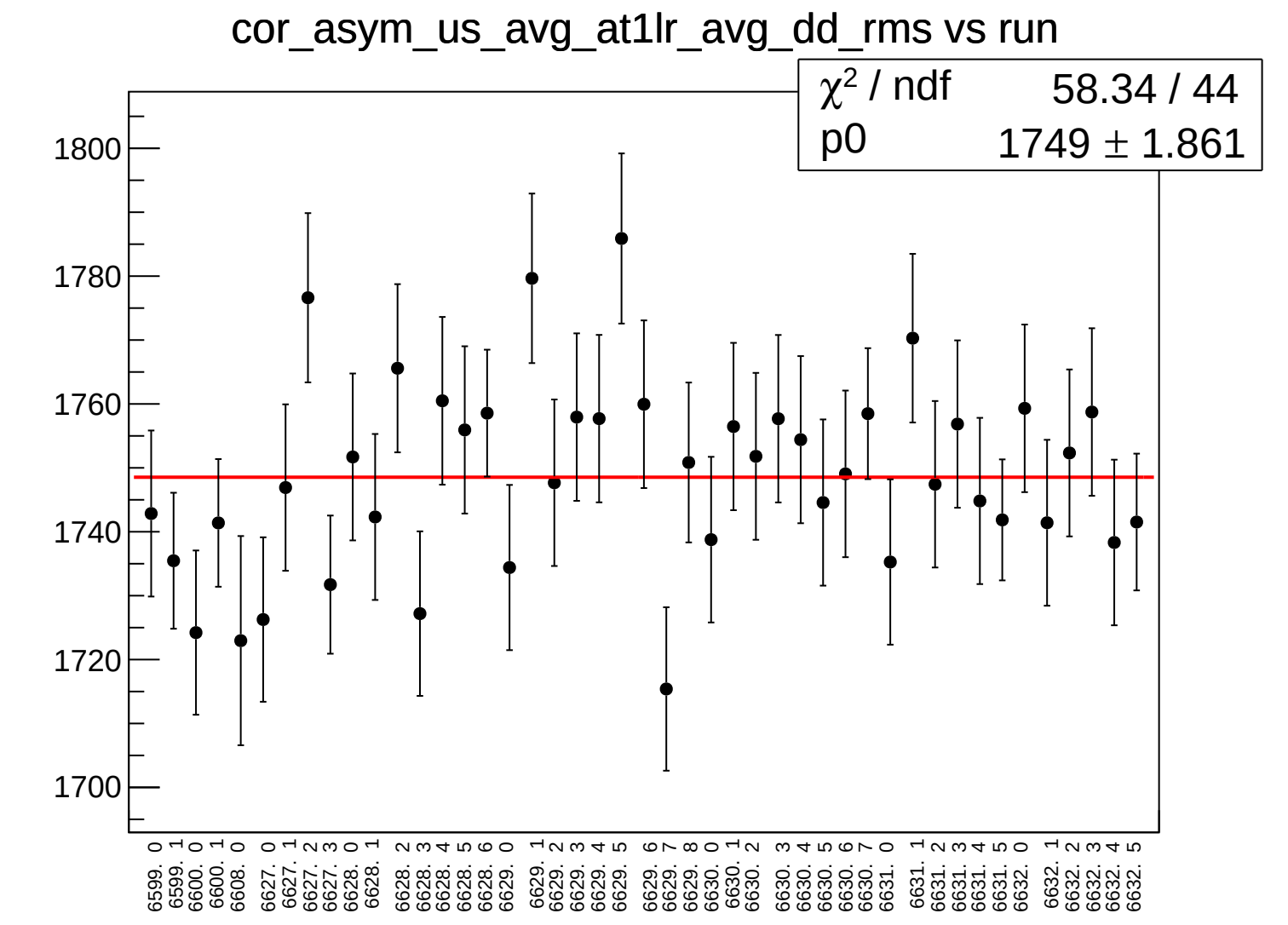
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 107
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.006944
Std Dev 0.9994
9
8
7
6
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 58.34 / 44
p0 1749 ± 1.861
1800
1780
1760
1740
1720
1700
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
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6632. 2
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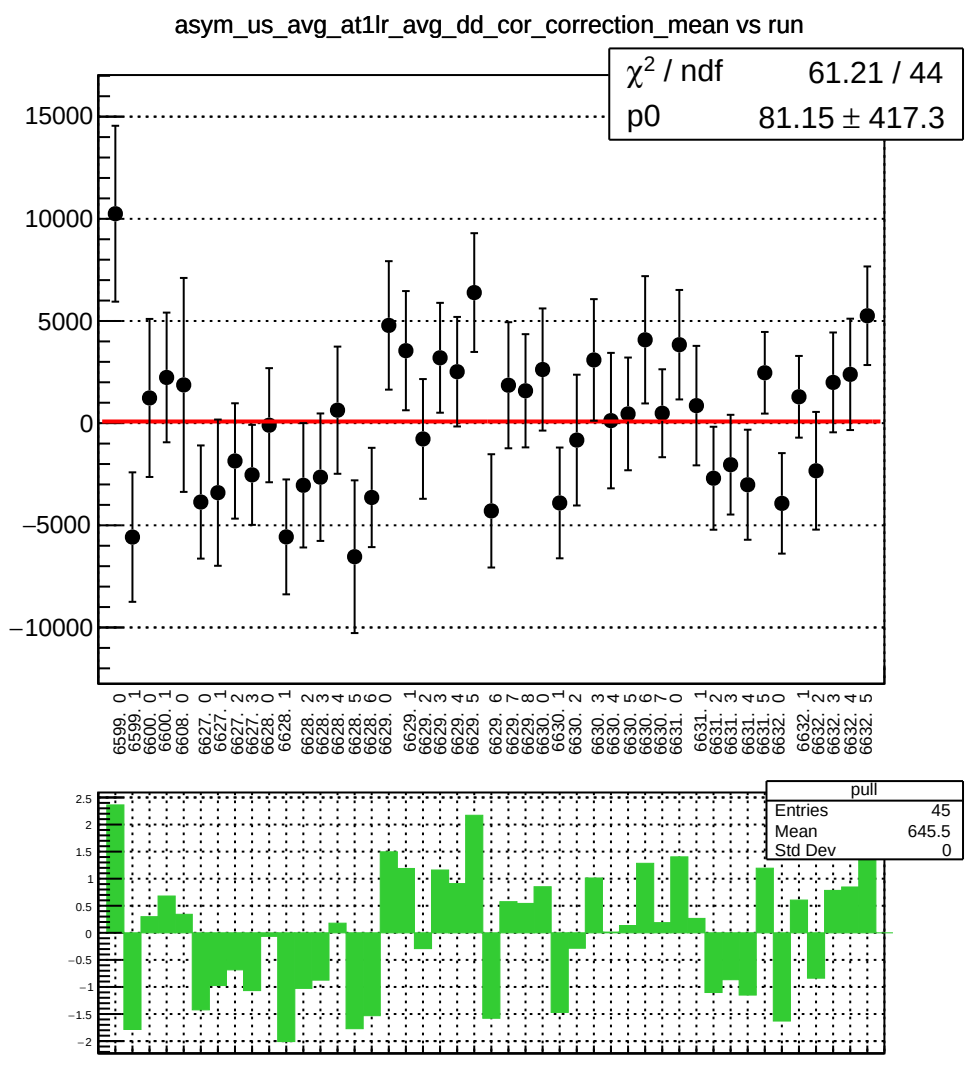
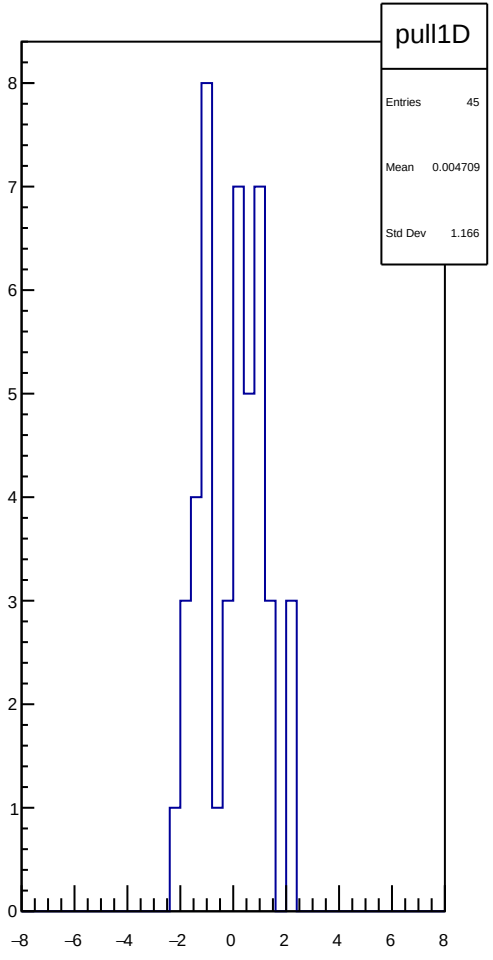
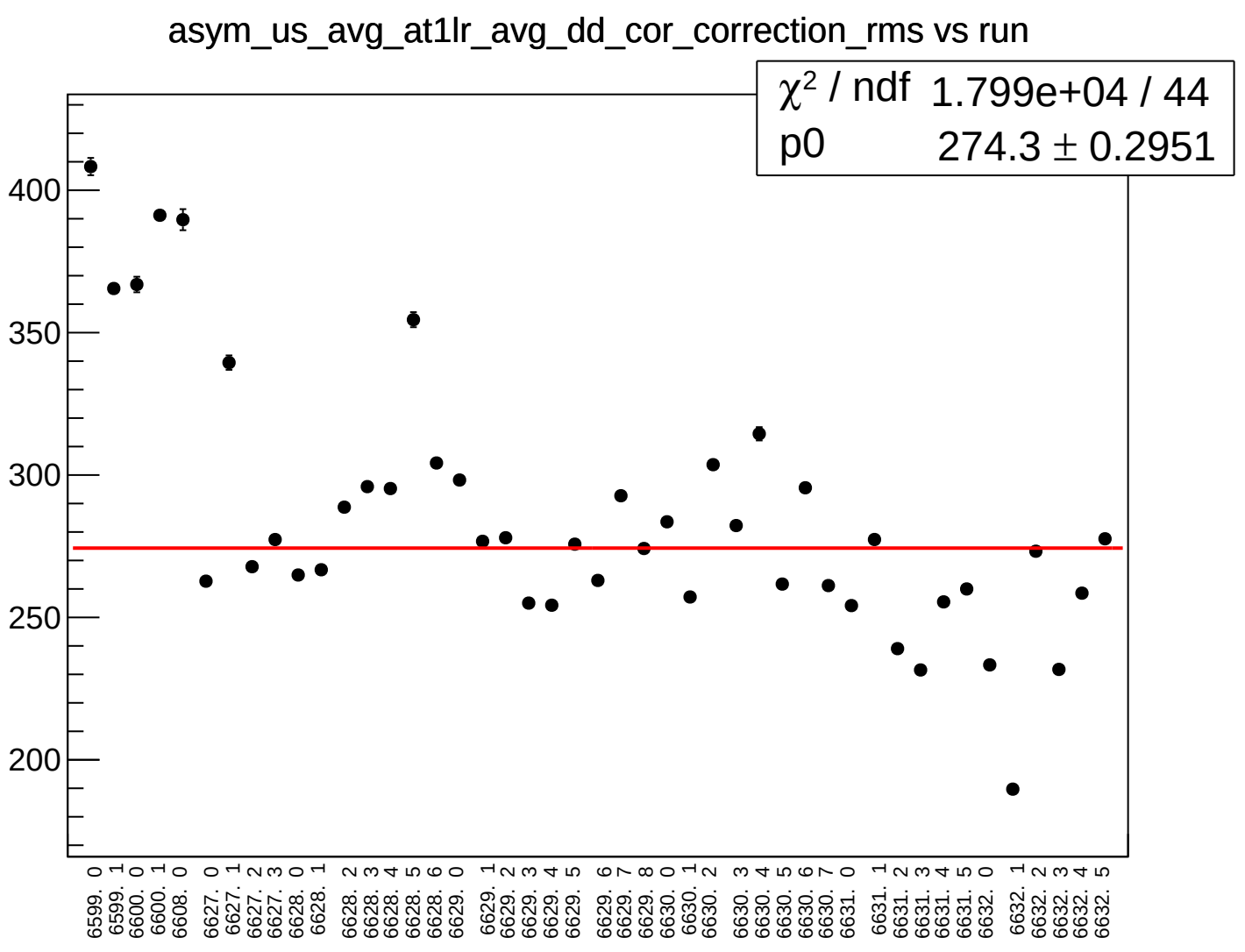
6632. 5


asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 61.21 / 44
p0 81.15 ± 417.3
15000
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 645.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.004709
Std Dev 1.166
8
7
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 1.799e+04 / 44
p0 274.3 ± 0.2951
400
350
300
250
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
6629. 3
6629. 4
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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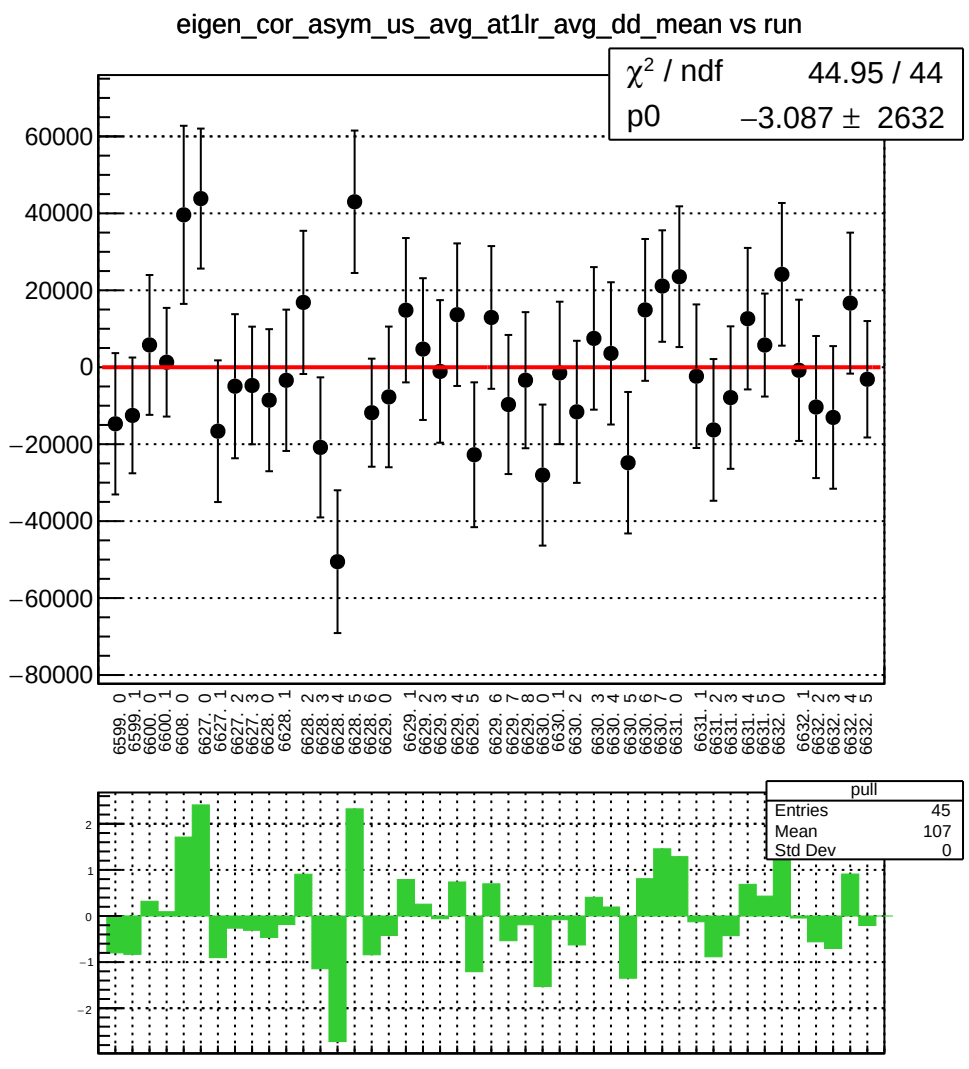
eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 44.95 / 44
p0 −3.087 ± 2632
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
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6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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6632. 2
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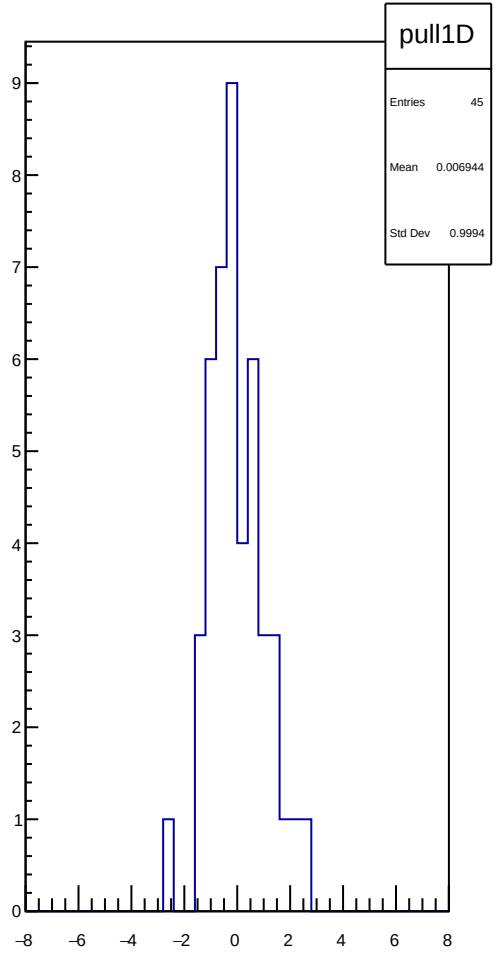
6632. 4
6632. 5
pull
Entries 45
Mean 107
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.006944
Std Dev 0.9994
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
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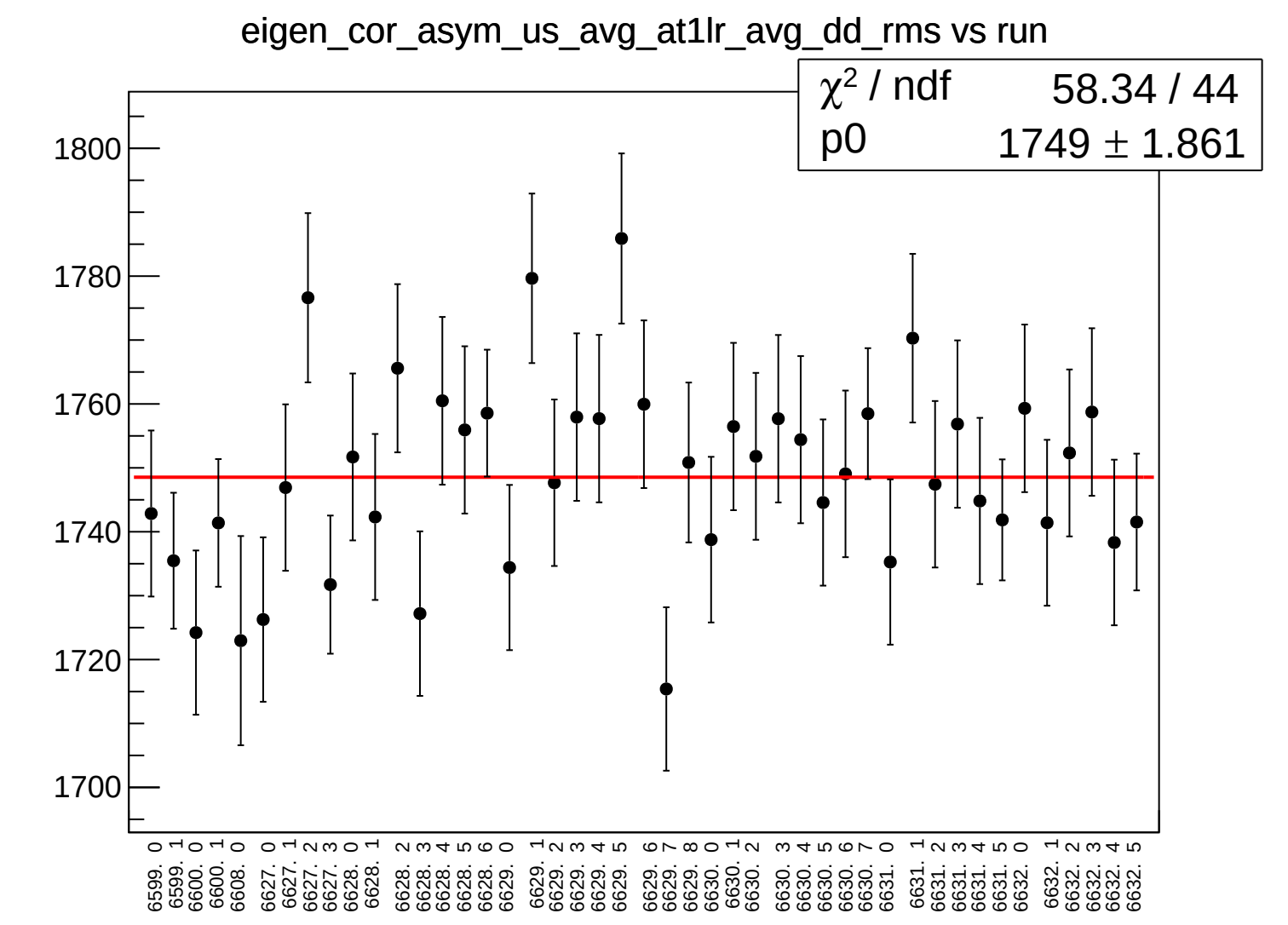
6
8


eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 58.34 / 44
p0 1749 ± 1.861
1800
1780
1760
1740
1720
1700
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6628. 6
6629. 0
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6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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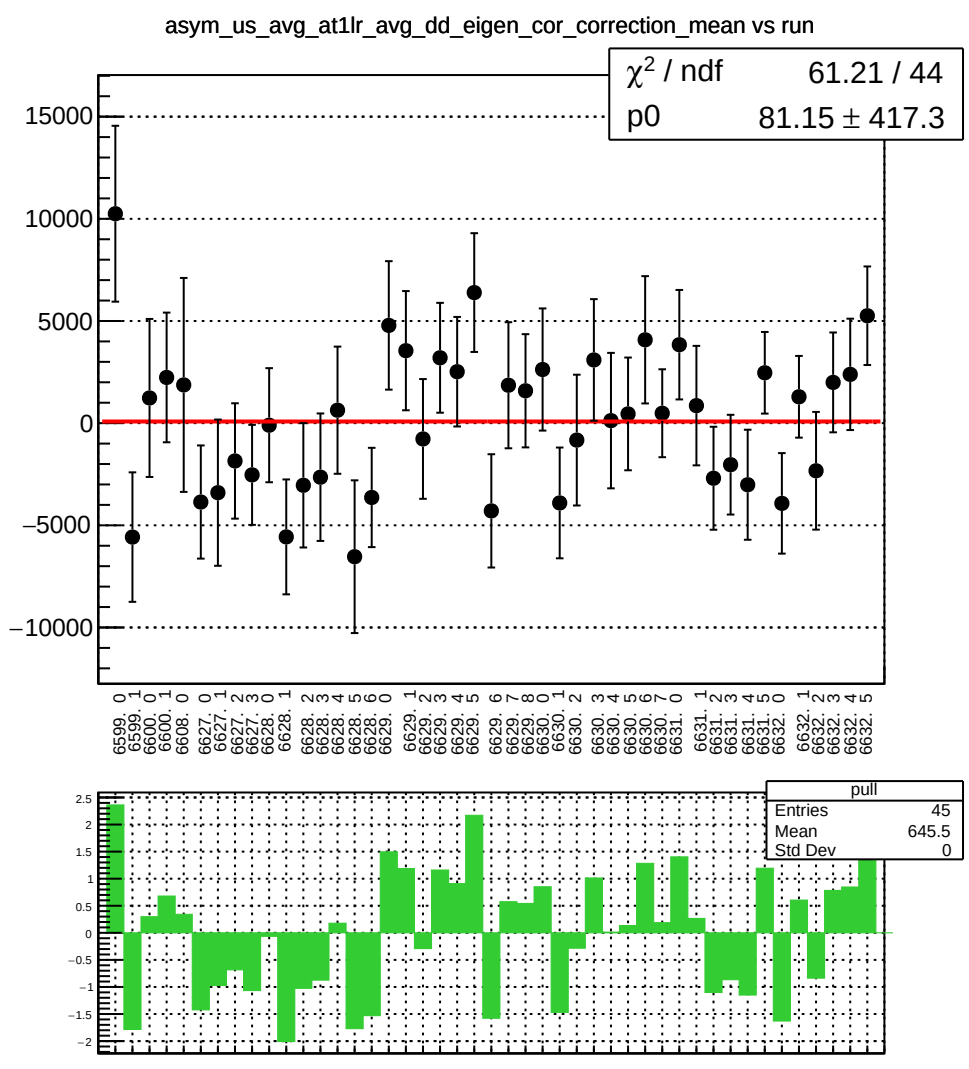
6632. 4
6632. 5


asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 61.21 / 44
p0 81.15 ± 417.3
15000
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 8
6630. 0
6630. 1
6630. 2
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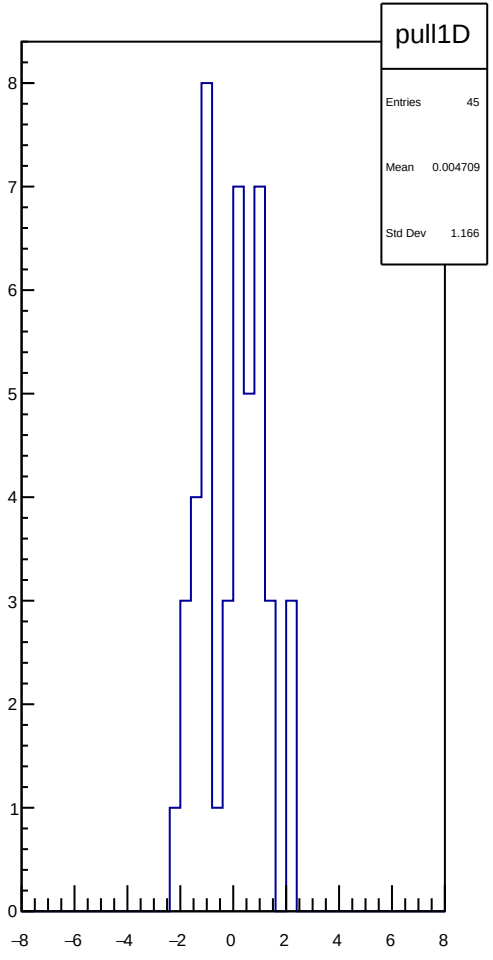
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 645.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.004709
Std Dev 1.166
8
7
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5
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1
0
−8
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−4
−2
0
2
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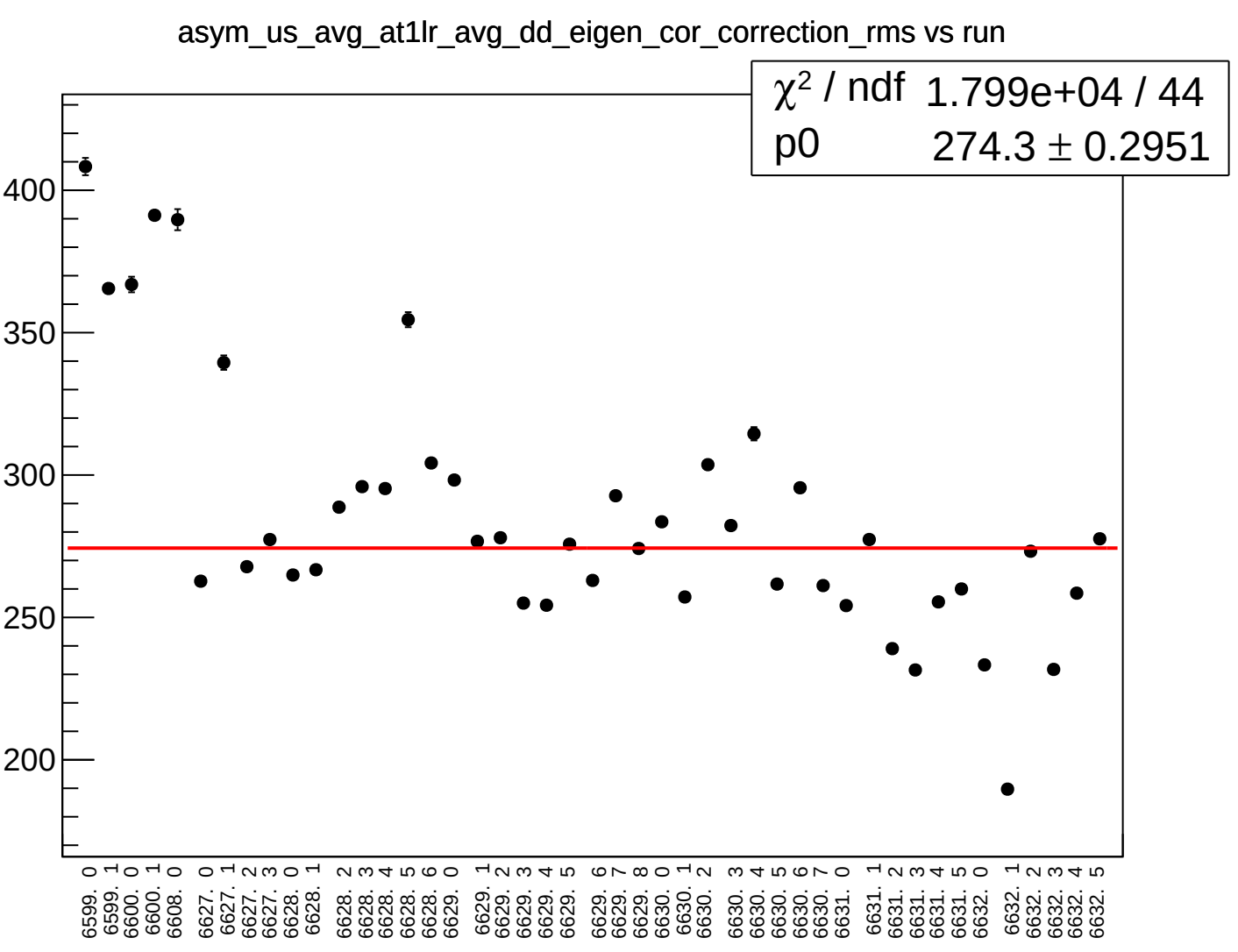
asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.799e+04 / 44
p0 274.3 ± 0.2951
400
350
300
250
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
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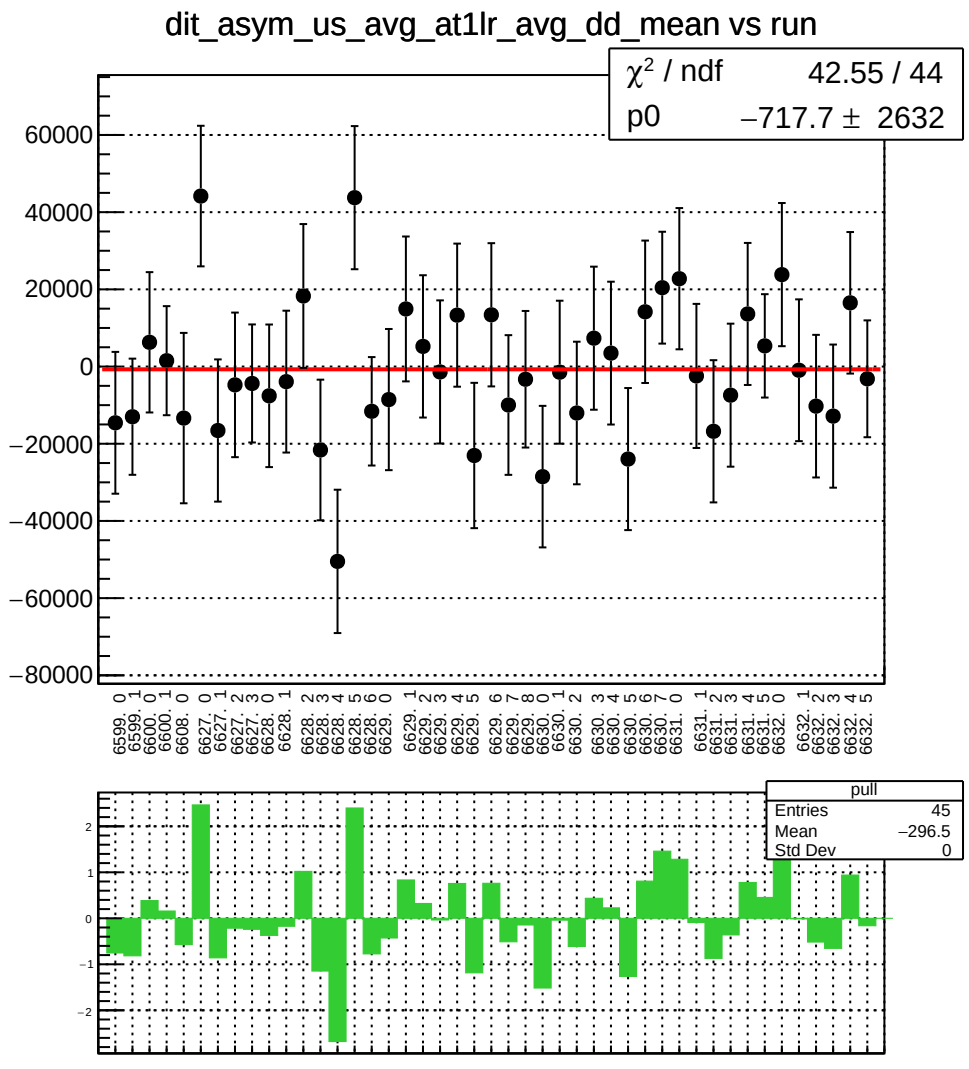
6632. 2
6632. 3
6632. 4
6632. 5


dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 42.55 / 44
p0 −717.7 ± 2632
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
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6628. 4
6628. 5
6628. 6
6629. 0
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6629. 8
6630. 0
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6631. 0
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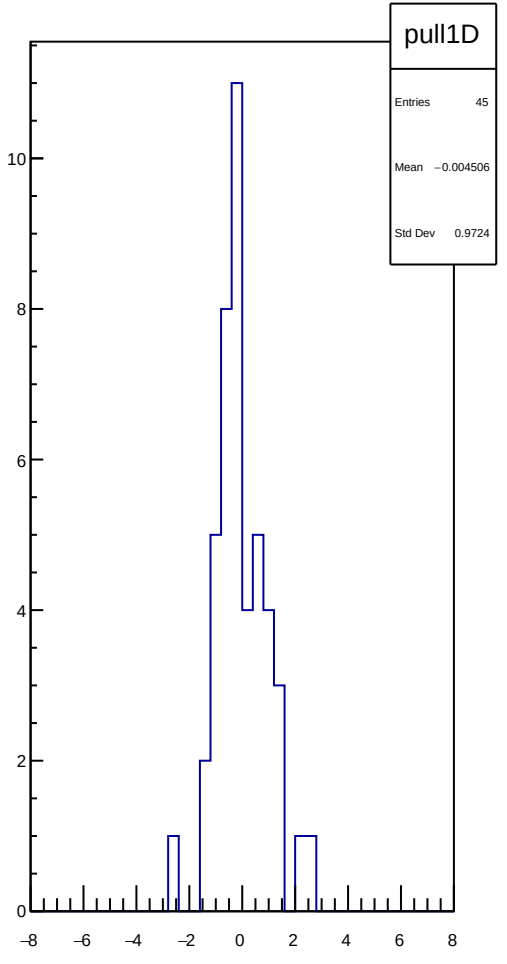
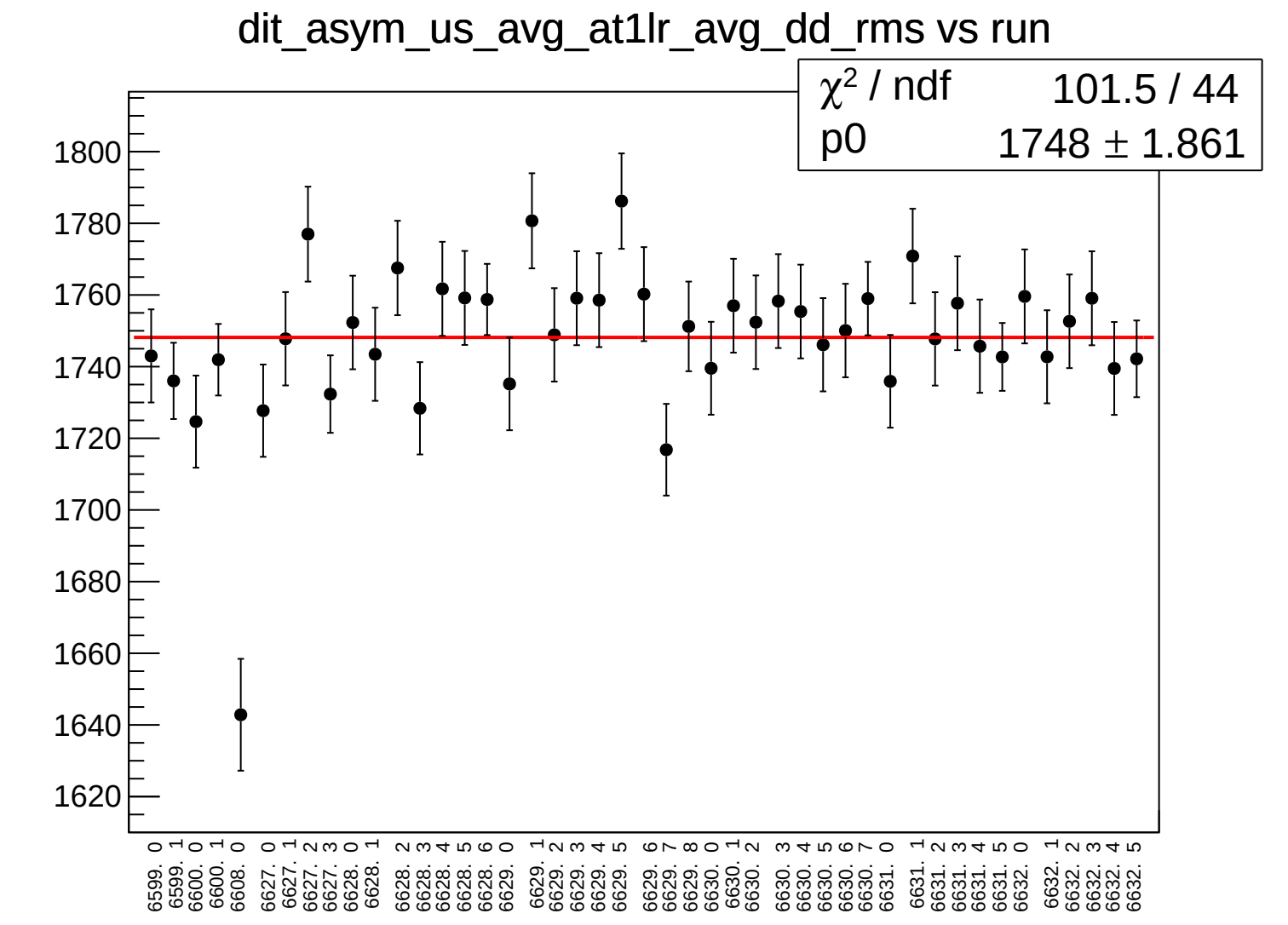
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −296.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.004506
Std Dev 0.9724
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 101.5 / 44
p0 1748 ± 1.861
1800
1780
1760
1740
1720
1700
1680
1660
1640
1620
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
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6632. 2
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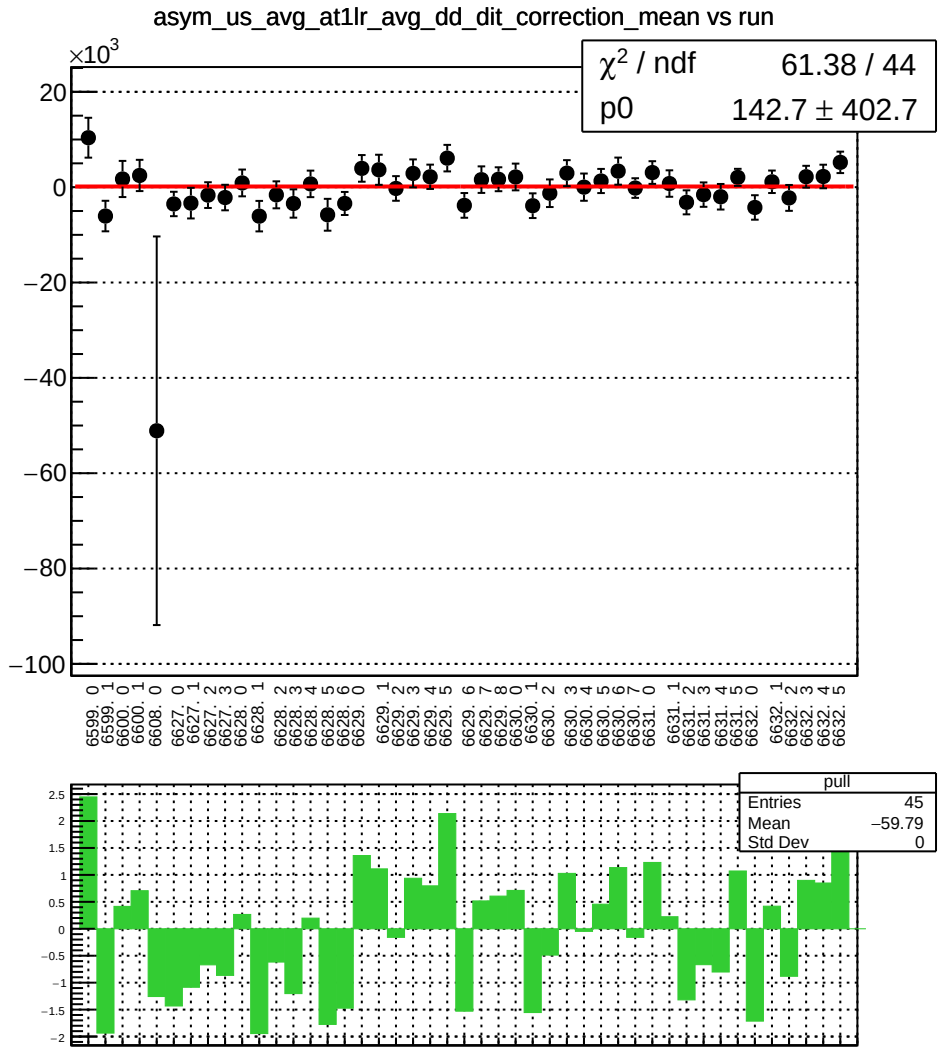
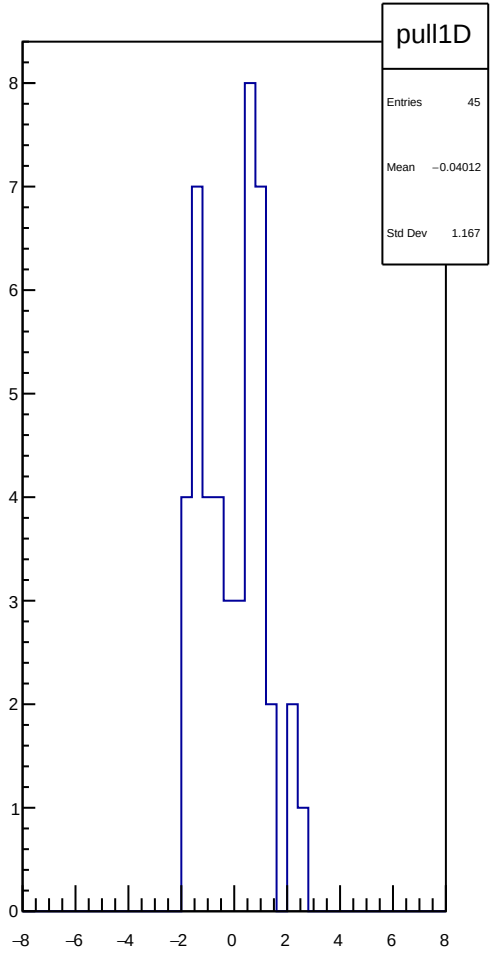
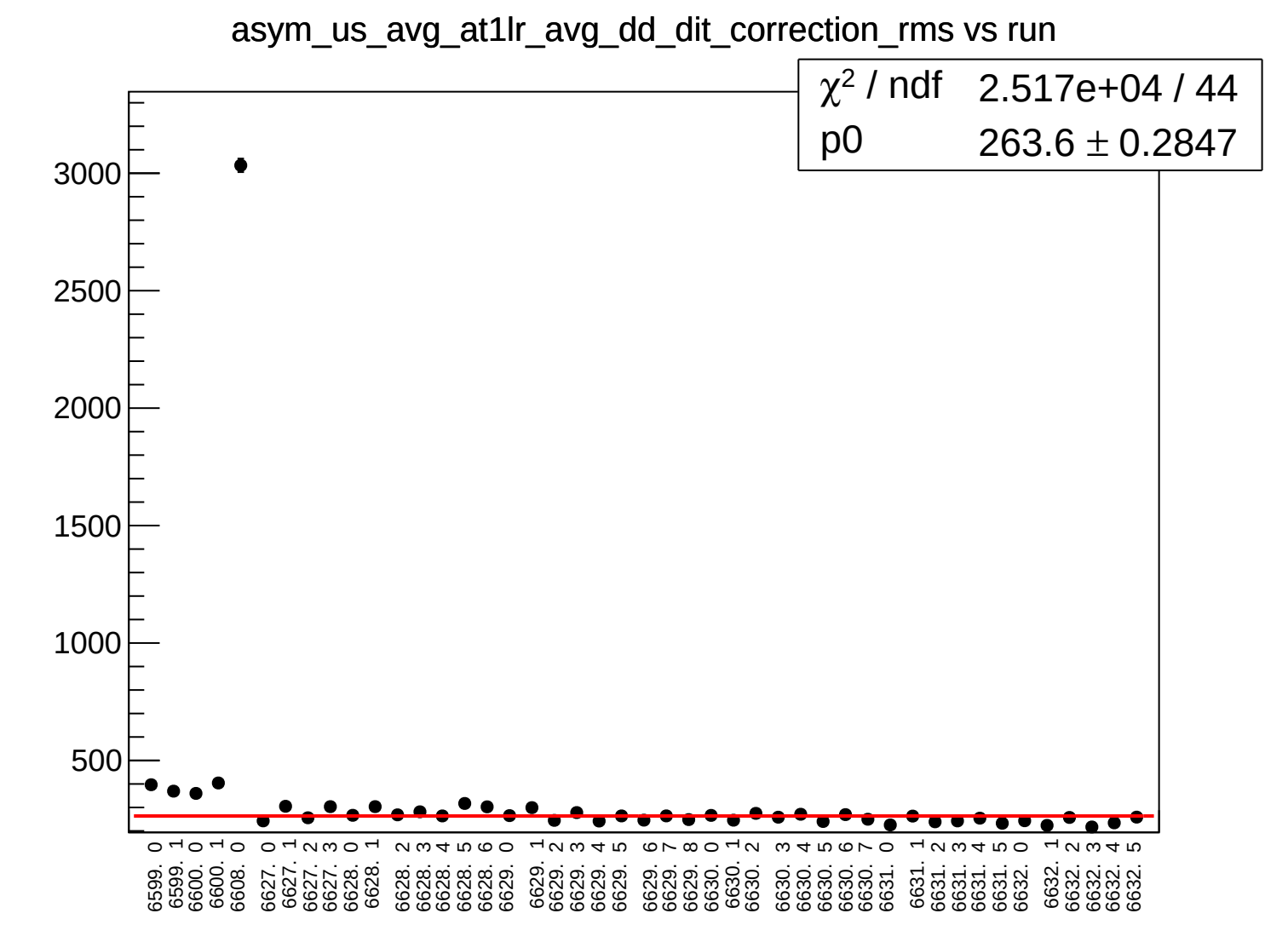
6632. 4
6632. 5


asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 61.38 / 44
p0 142.7 ± 402.7
pull
Entries 45
Mean −59.79
Std Dev 0


pull1D
Entries 45
Mean −0.04012
Std Dev 1.167


asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 2.517e+04 / 44
p0 263.6 ± 0.2847
3000
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
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6630. 6
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6631. 0
6631. 1
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6632. 2
6632. 3
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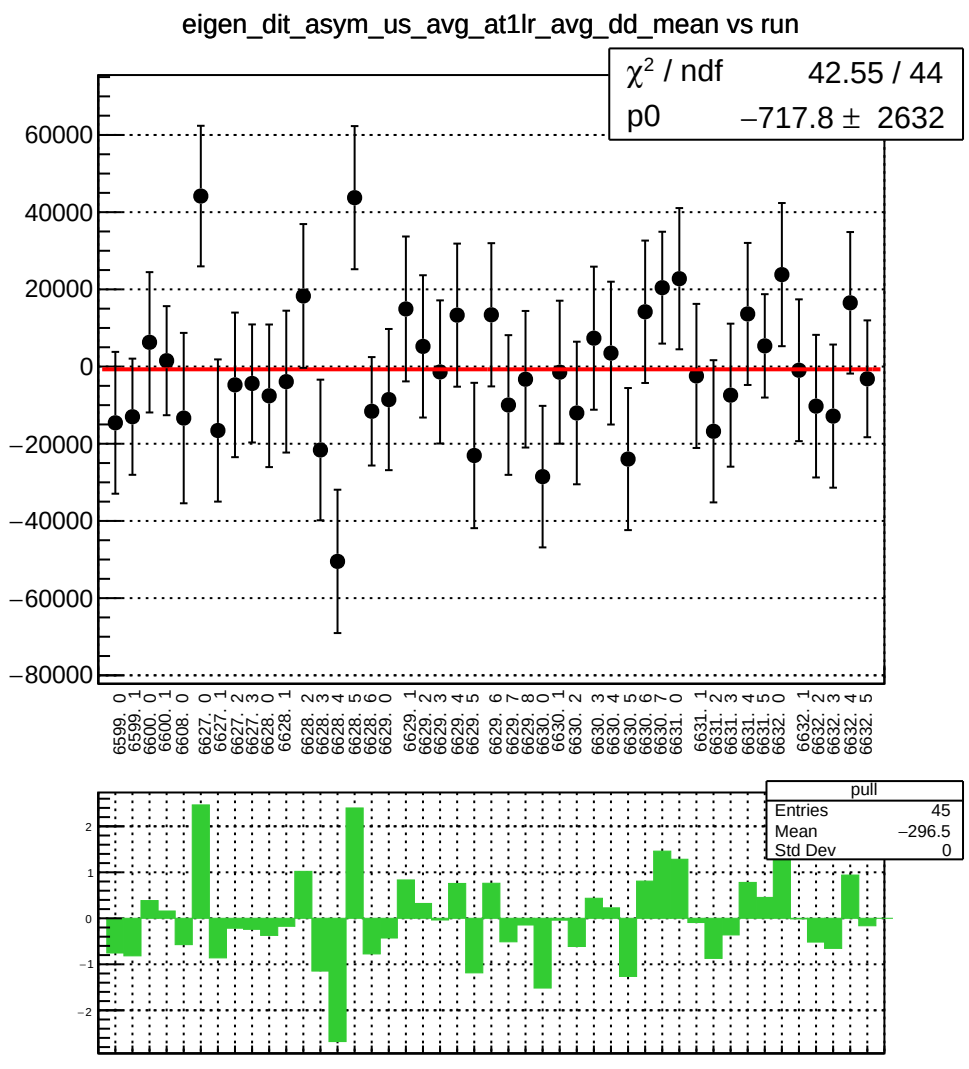
6632. 5


eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 42.55 / 44
p0 −717.8 ± 2632
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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6628. 0
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6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 8
6630. 0
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6630. 2
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
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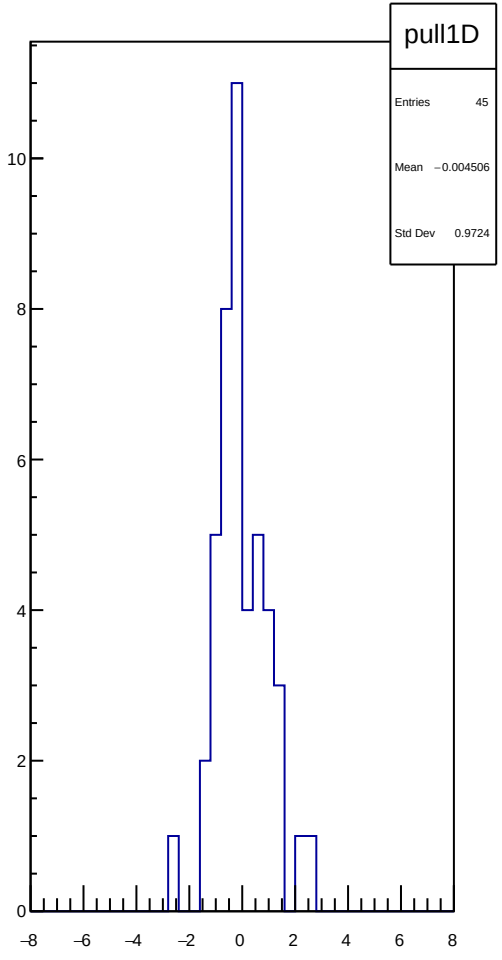
6632. 4
6632. 5
pull
Entries 45
Mean −296.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.004506
Std Dev 0.9724
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
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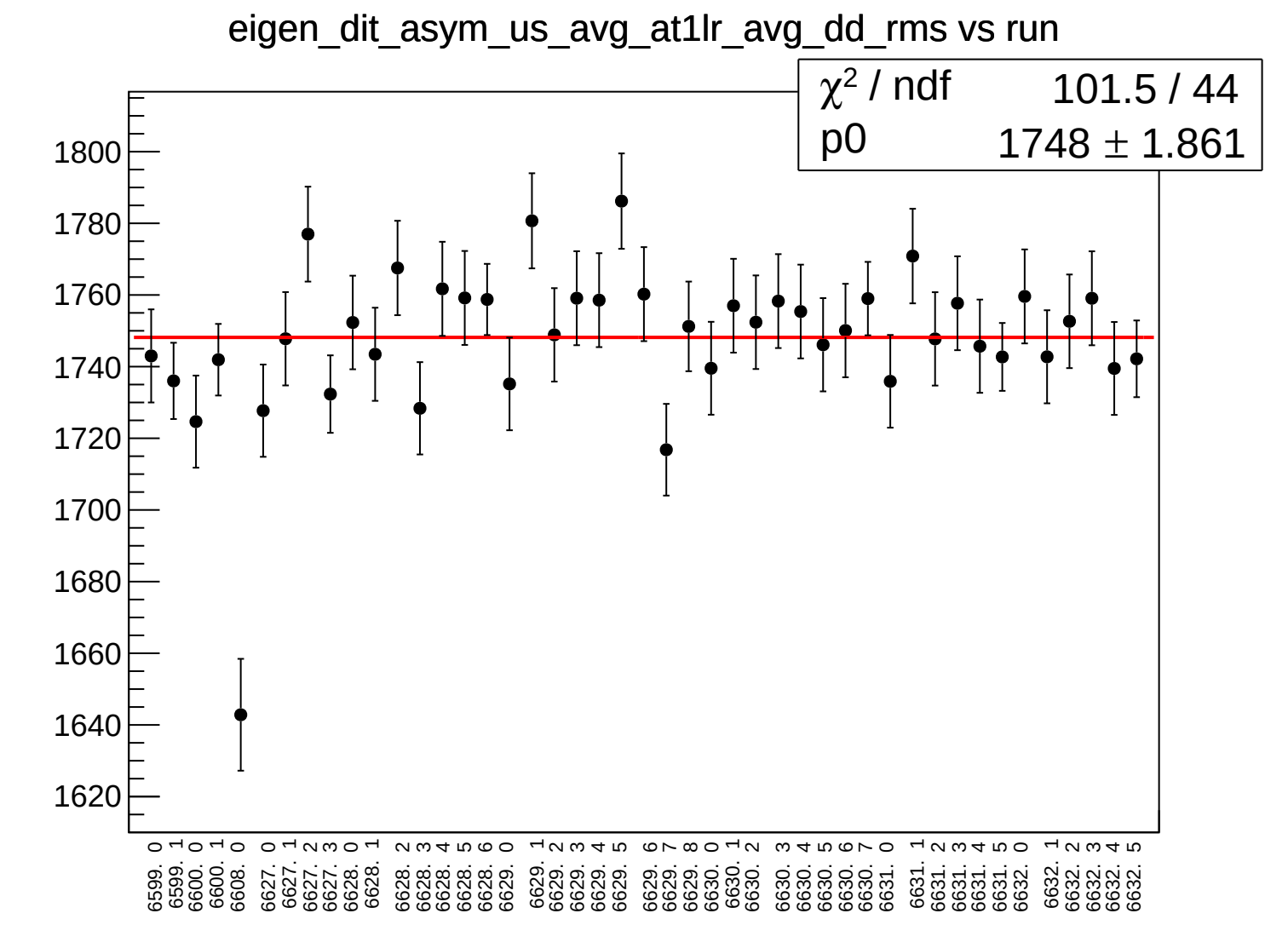
eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 101.5 / 44
p0 1748 ± 1.861
1800
1780
1760
1740
1720
1700
1680
1660
1640
1620
6599. 0
6599. 1
6600. 0
6600. 1
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6628. 6
6629. 0
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6629. 6
6629. 7
6629. 8
6630. 0
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6630. 7
6631. 0
6631. 1
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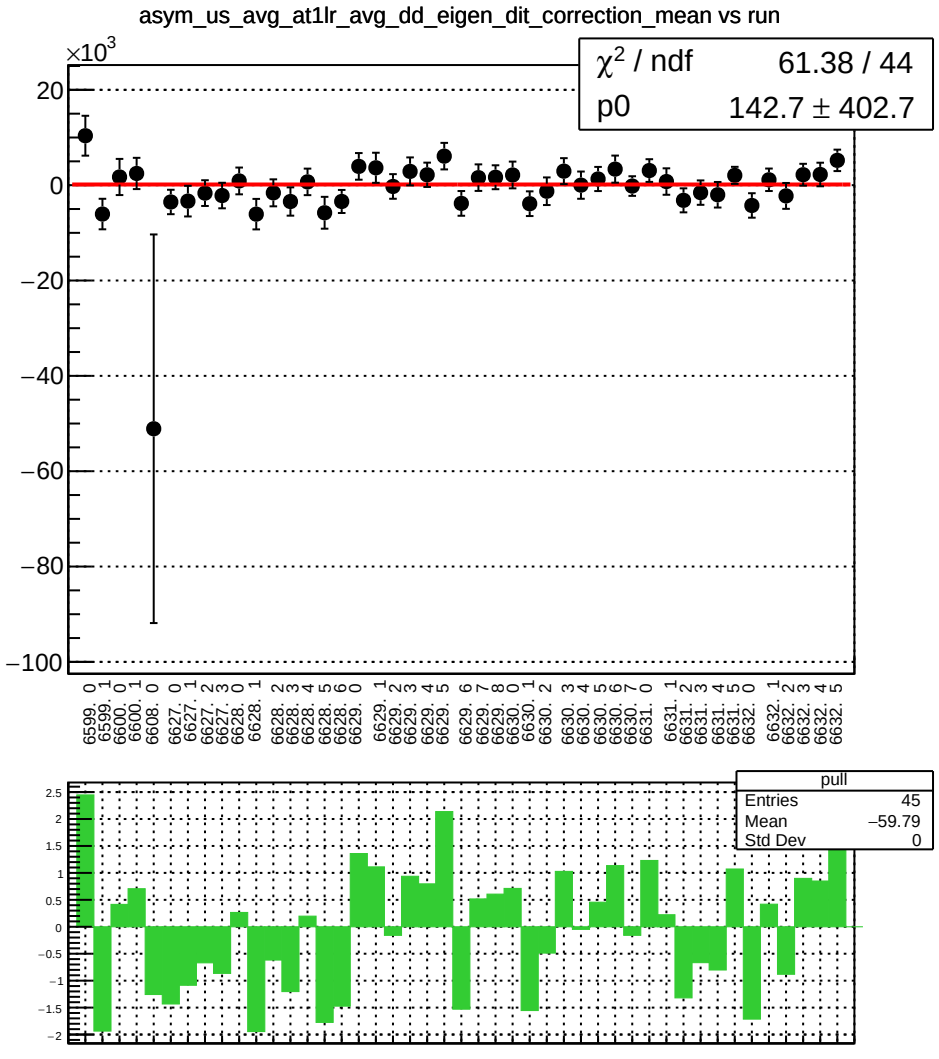
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 61.38 / 44
p0 142.7 ± 402.7
20
0
−20
−40
−60
−80
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
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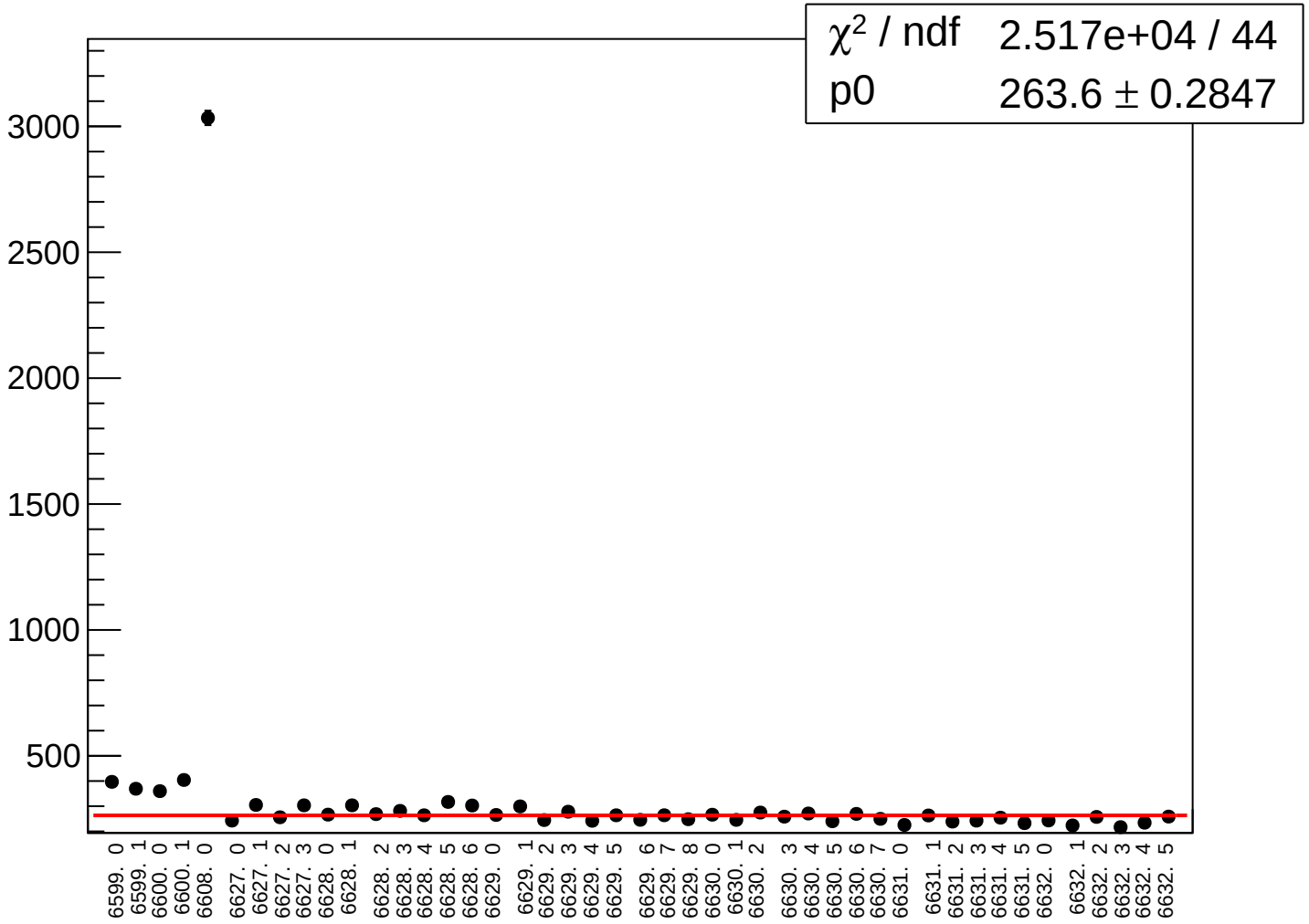
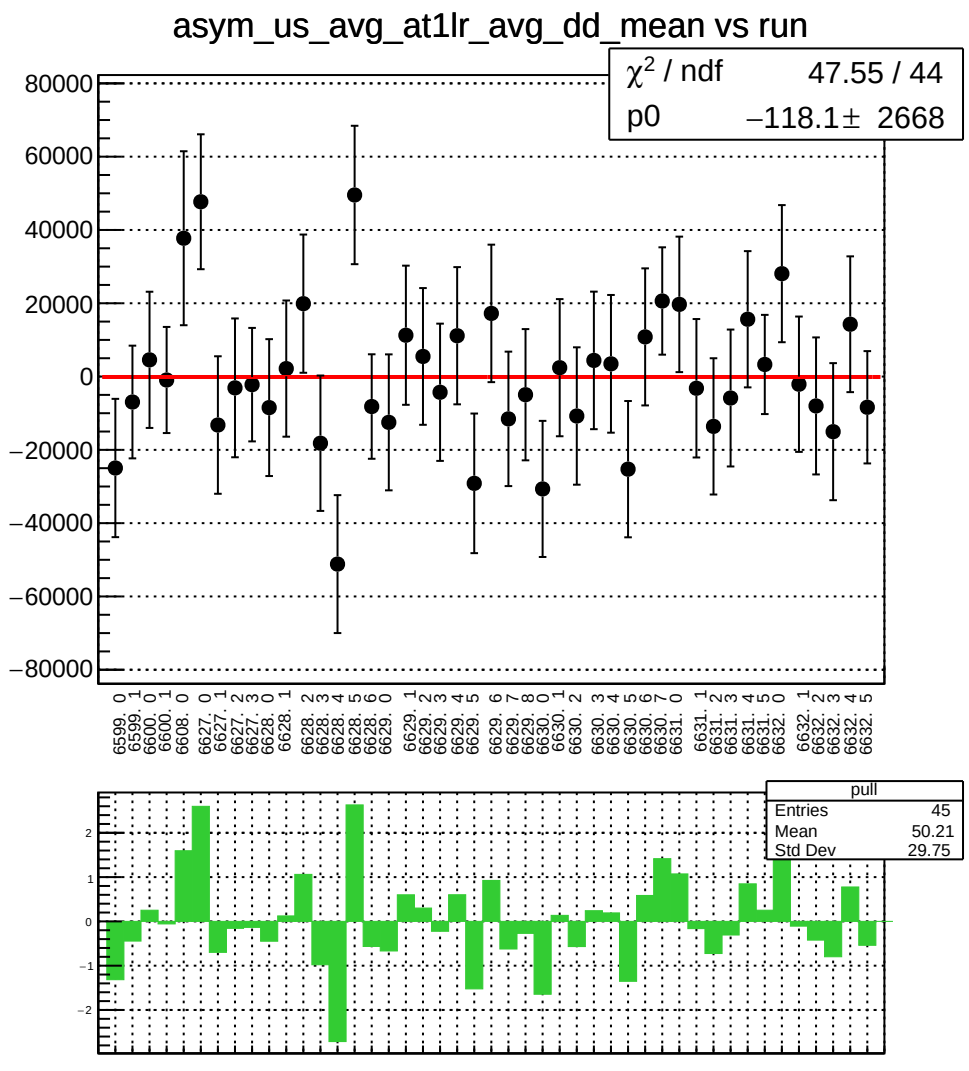
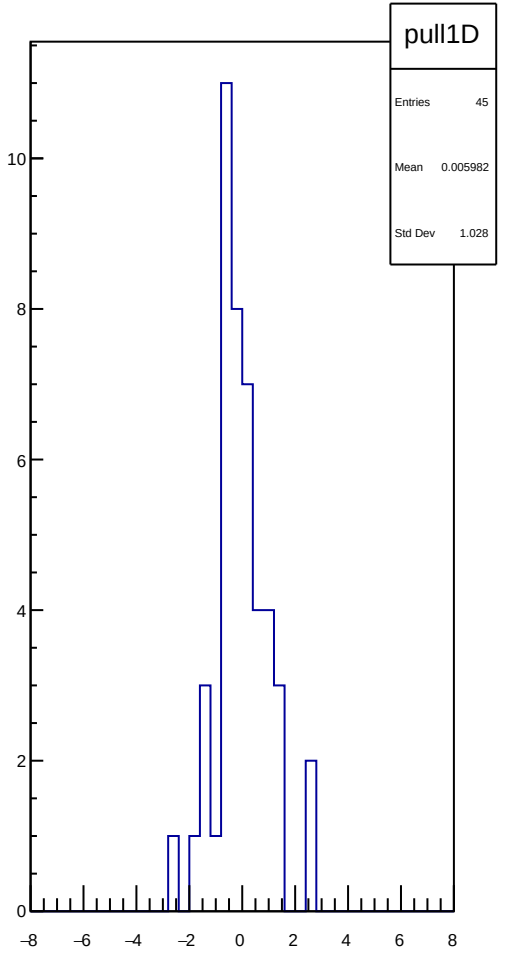
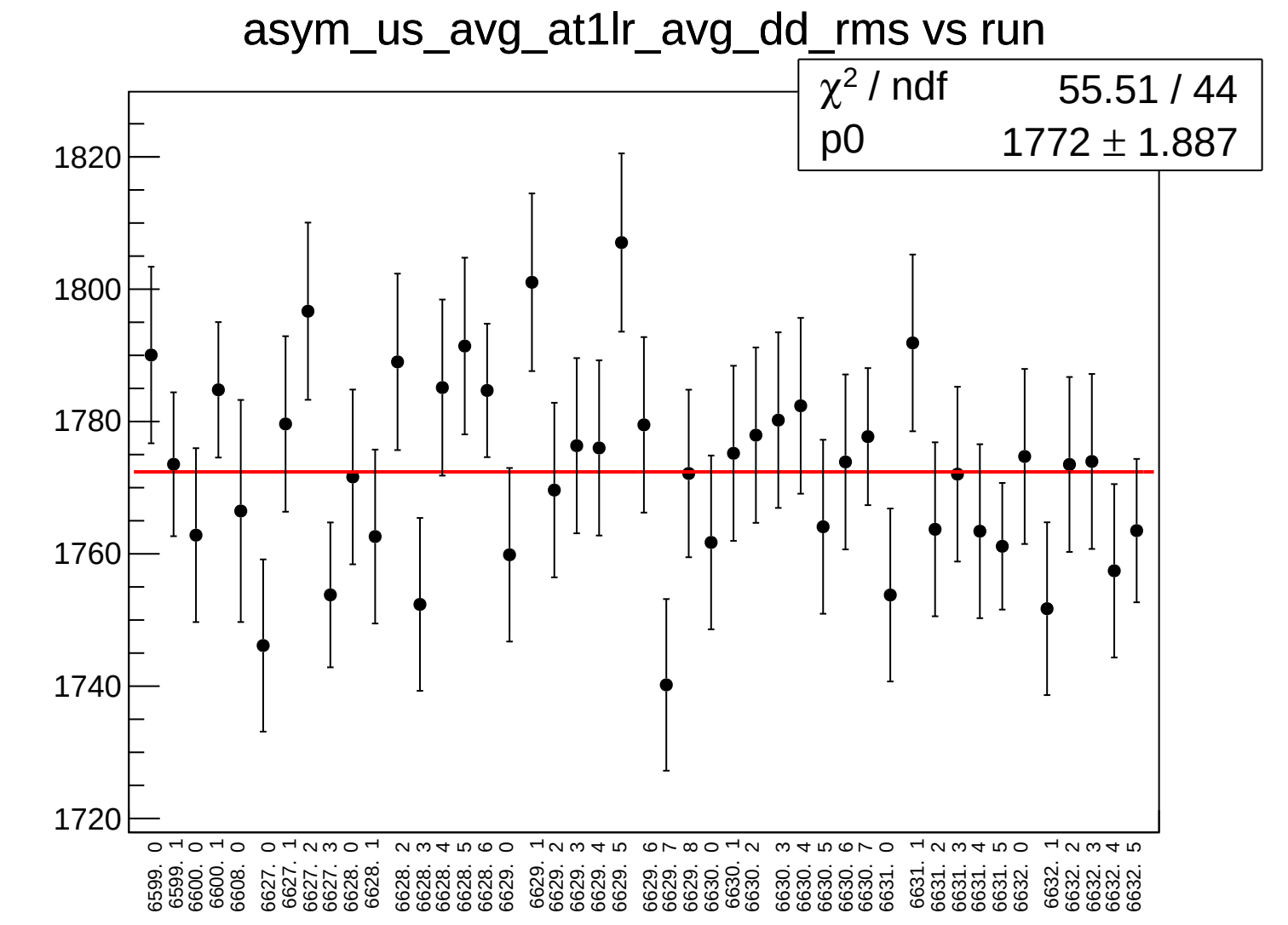
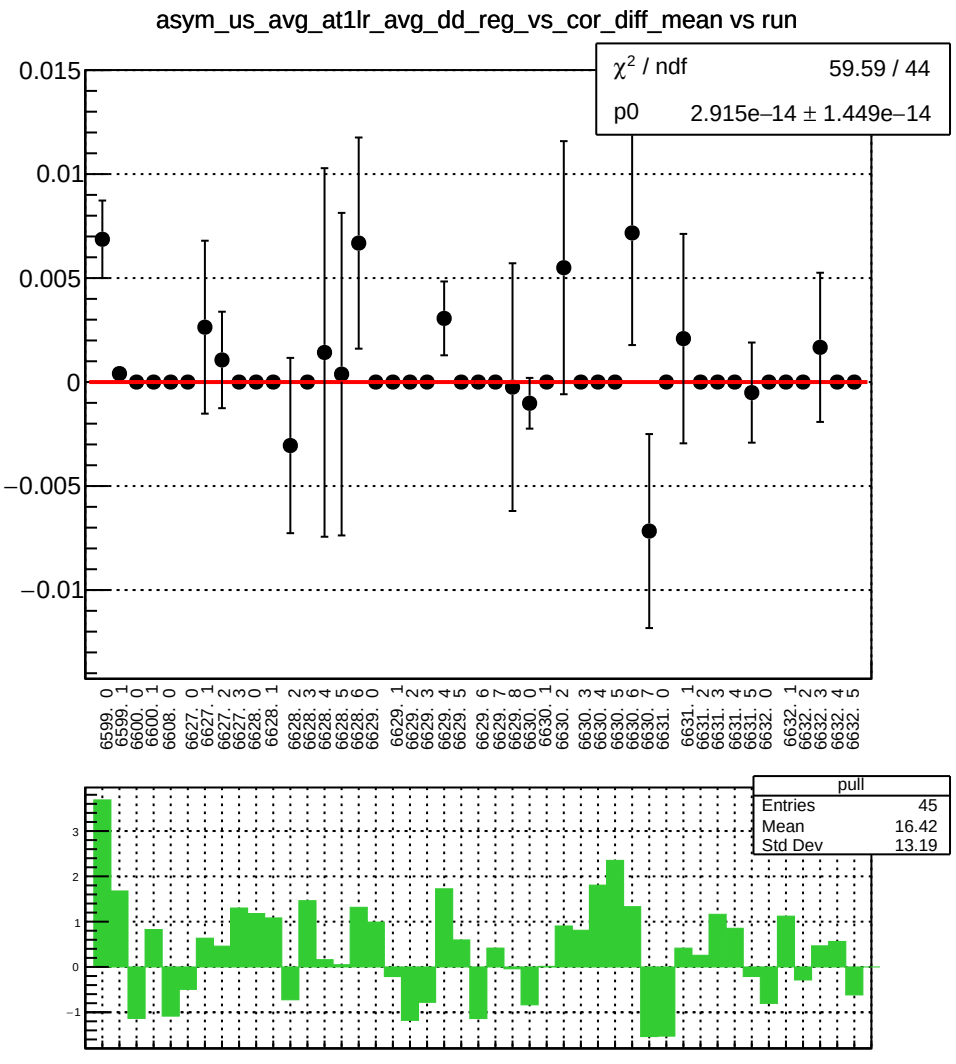
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −59.79
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.04012
Std Dev 1.167
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

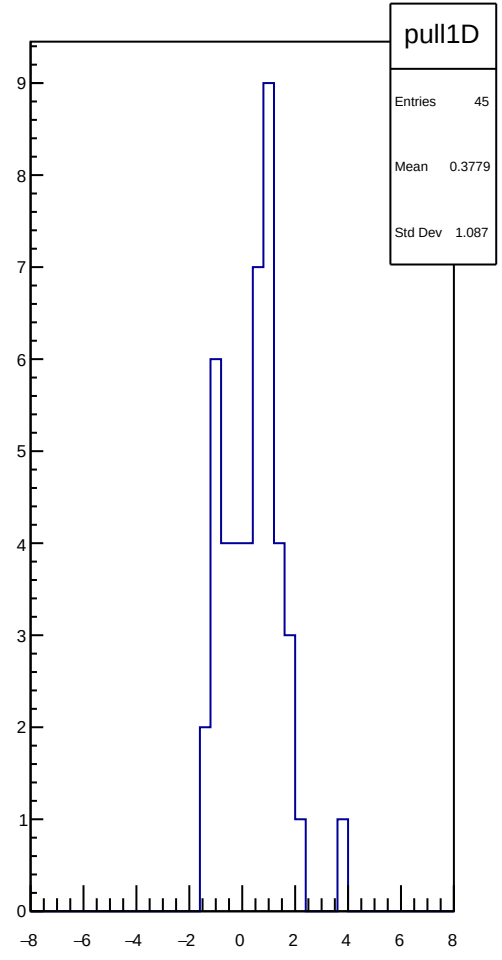

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.517e+04 / 44
p0 263.6 ± 0.2847
3000
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

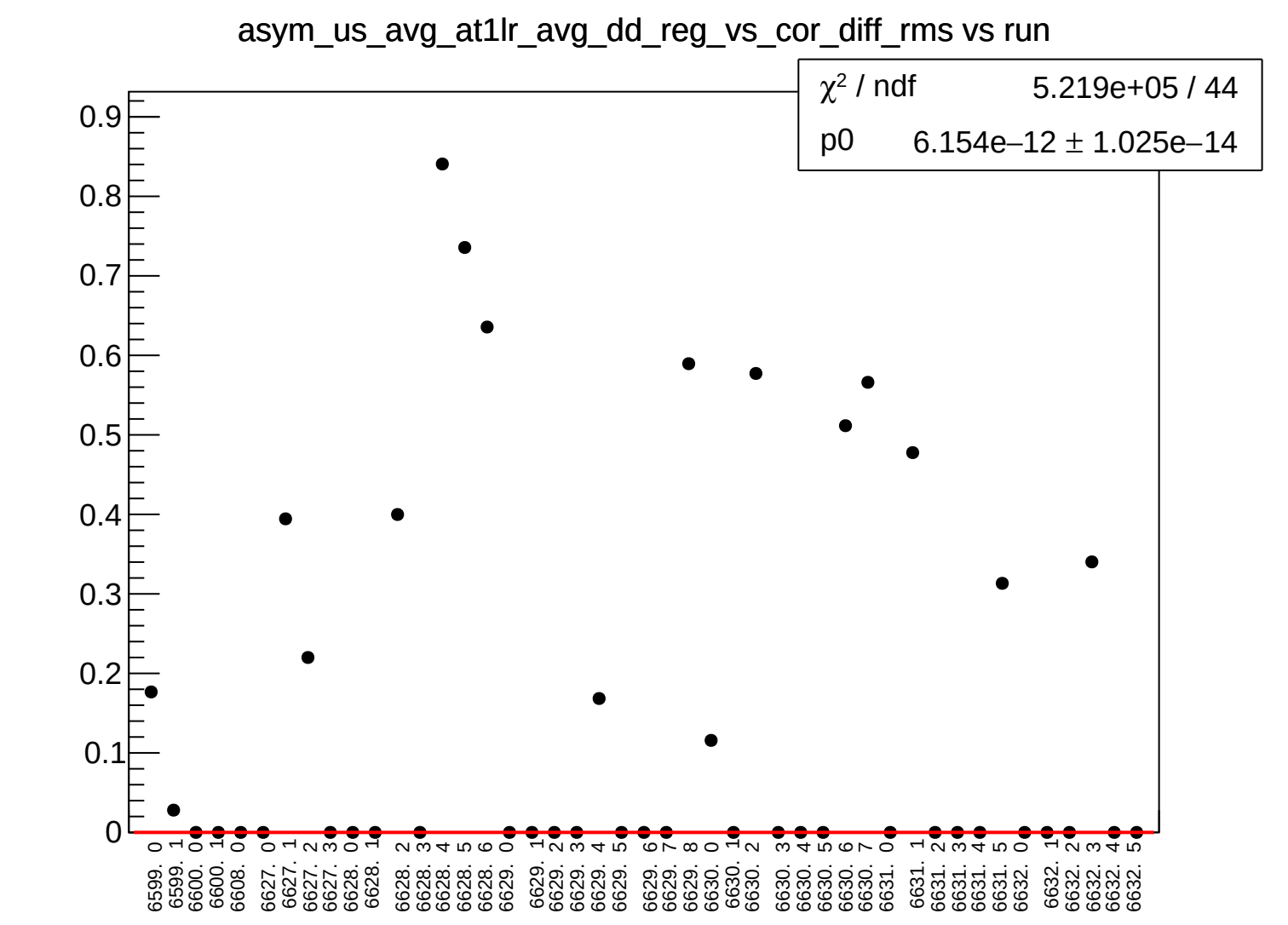

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 47.55 / 44
p0 −118.1± 2668
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 50.21
Std Dev 29.75
2
1
0
−1
−2

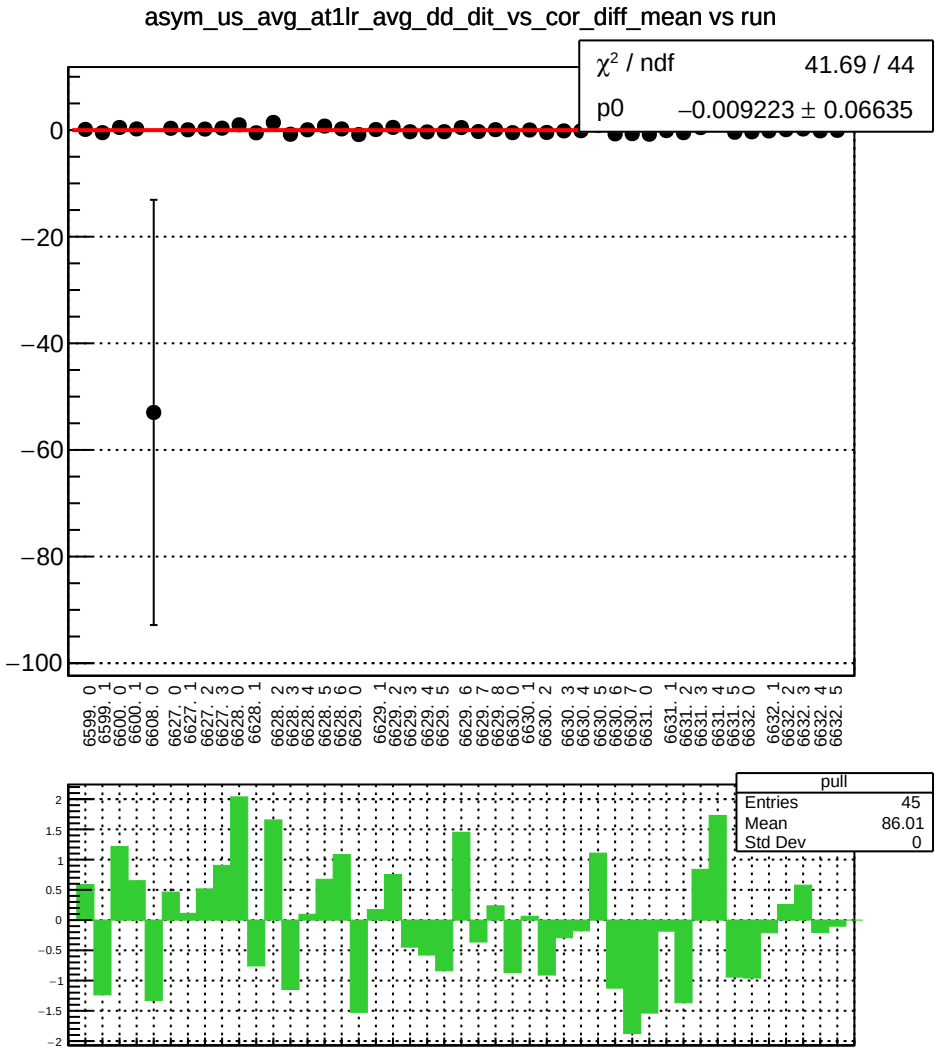

pull1D
Entries 45
Mean 0.005982
Std Dev 1.028
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

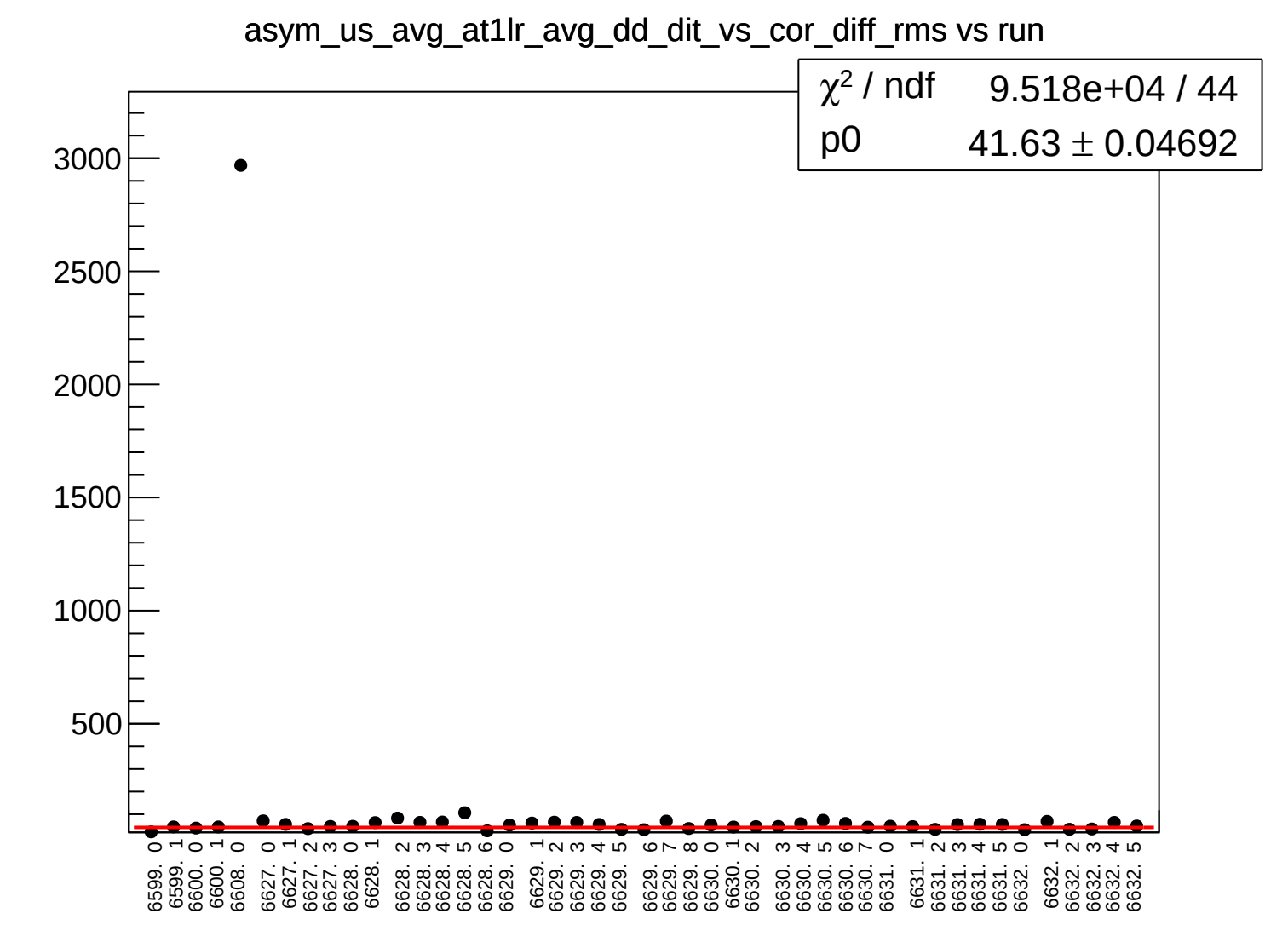

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 55.51 / 44
p0 1772 ± 1.887
1820
1800
1780
1760
1740
1720
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

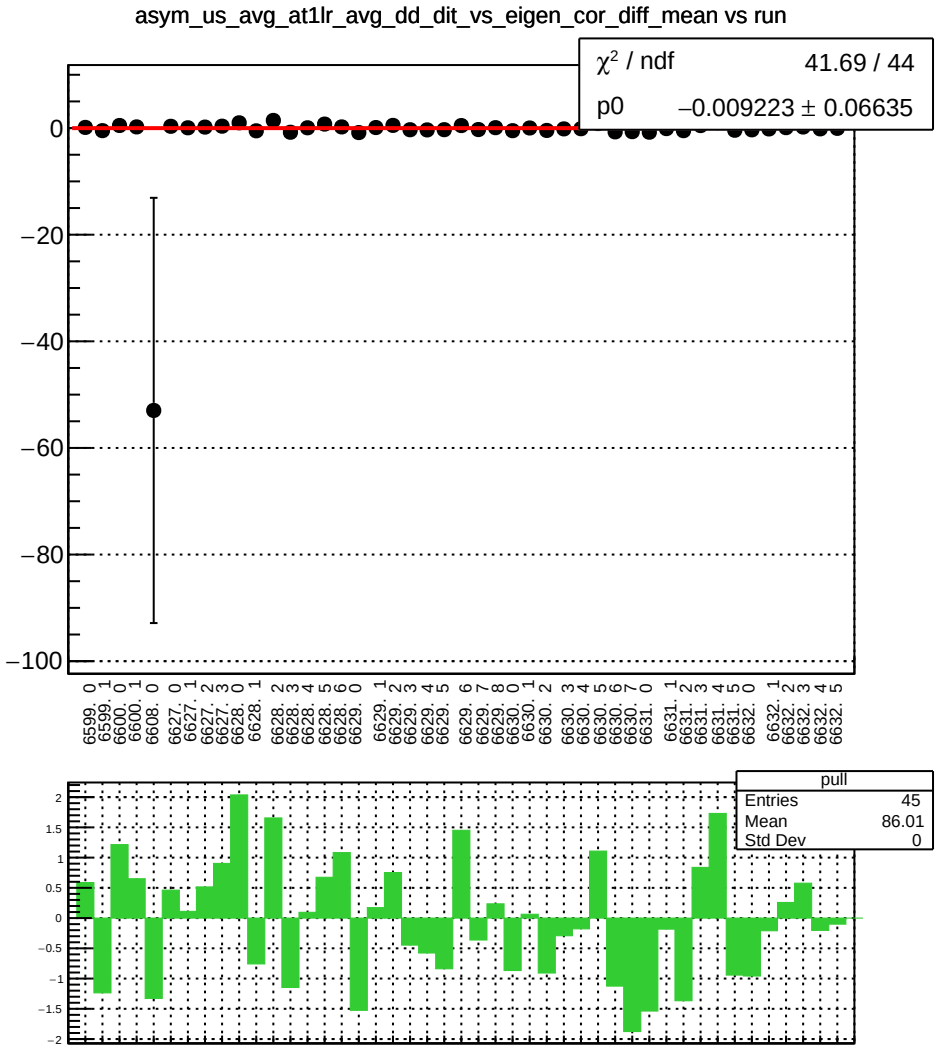

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 59.59 / 44
p0 2.915e−14 ± 1.449e−14
0.015
0.01
0.005
0
−0.005
−0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 16.42
Std Dev 13.19
3
2
1
0
−1

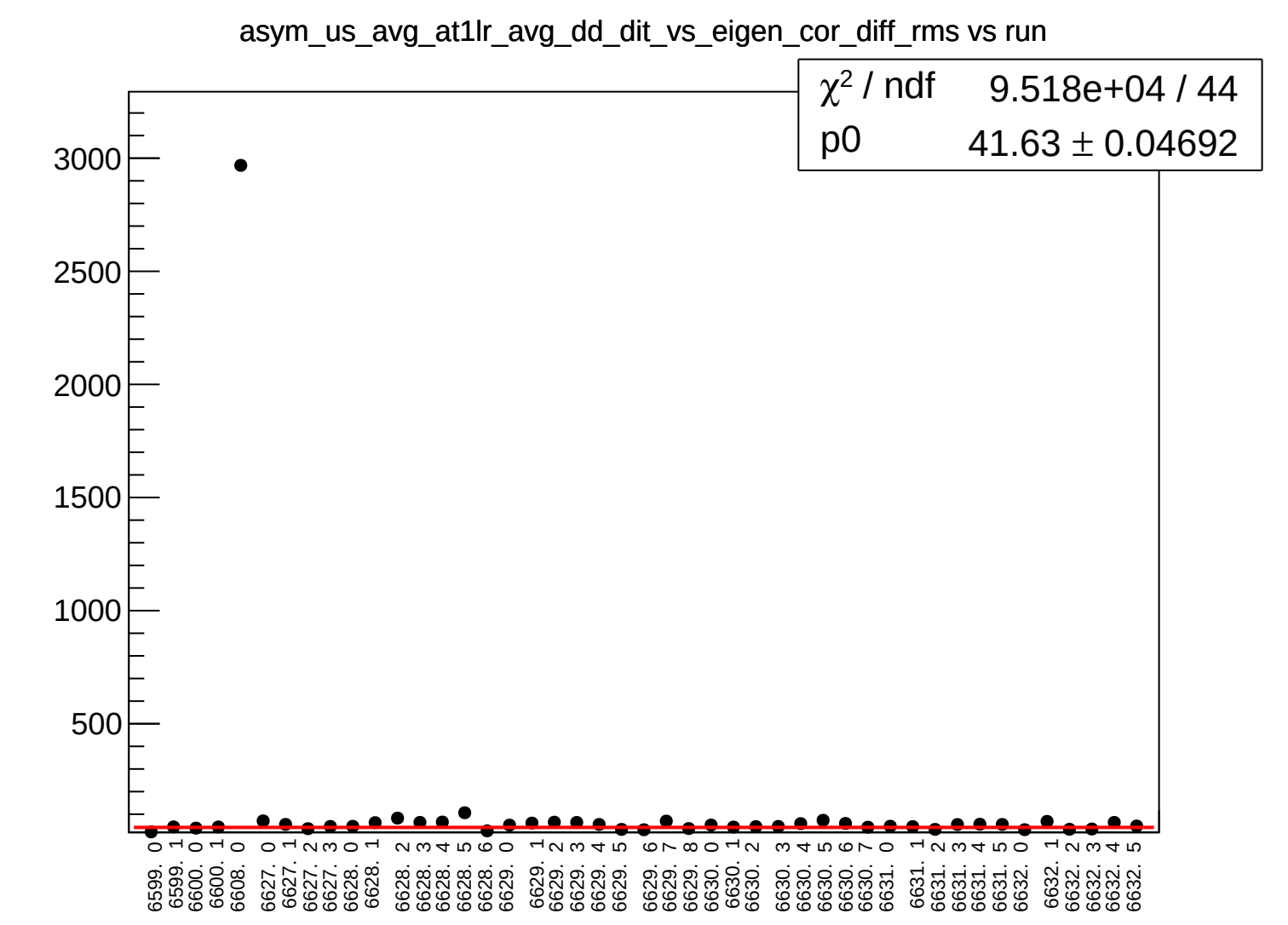

pull1D
Entries 45
Mean 0.3779
Std Dev 1.087
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

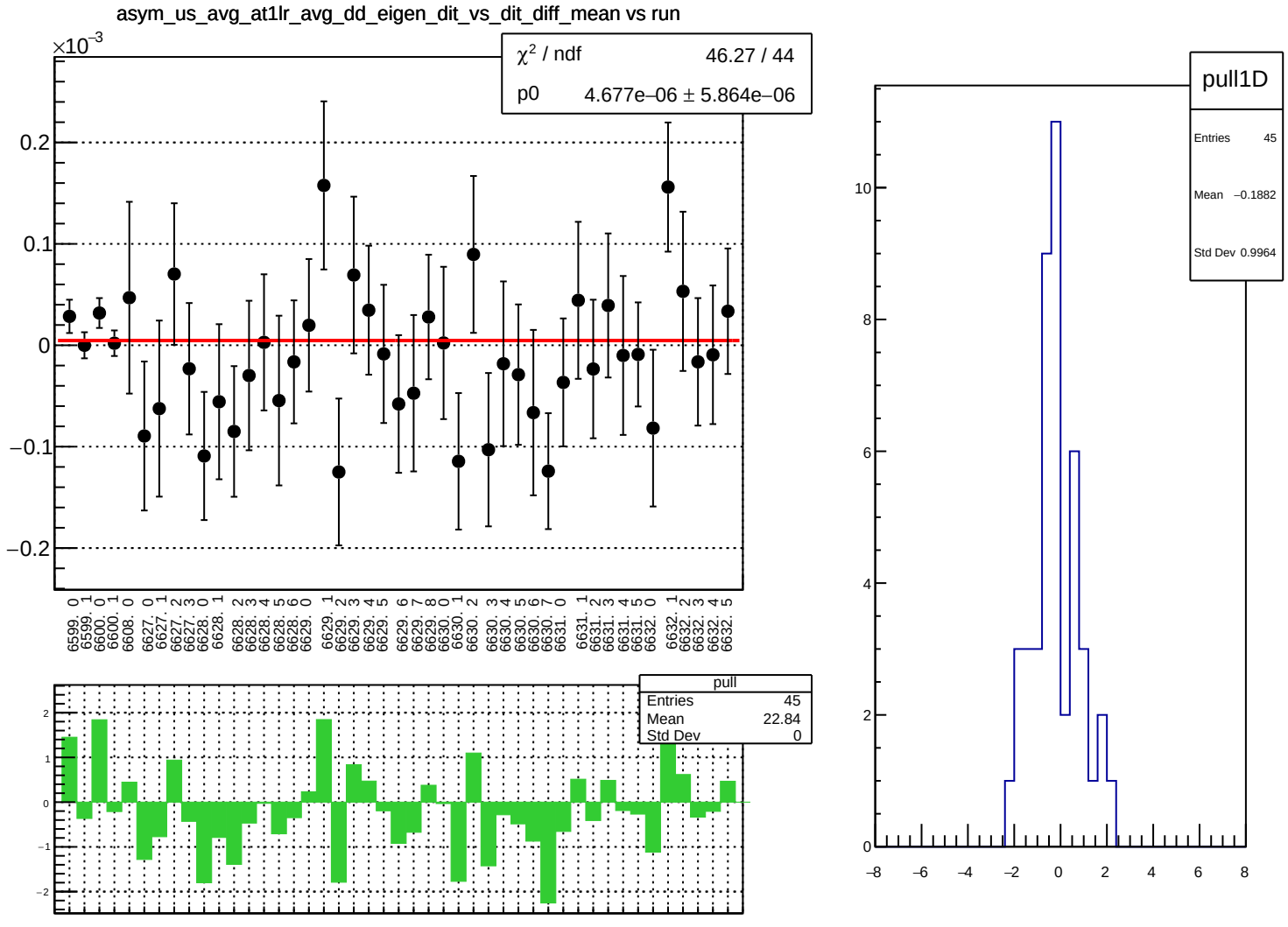

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.219e+05 / 44
p0 6.154e−12 ± 1.025e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 41.69 / 44
p0 −0.009223 ± 0.06635
0
−20
−40
−60
−80
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 86.01
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.03962
Std Dev 0.9617
7
6
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 9.518e+04 / 44
p0 41.63 ± 0.04692
3000
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.69 / 44
p0 −0.009223 ± 0.06635
0
−20
−40
−60
−80
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 86.01
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.03962
Std Dev 0.9617
7
6
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
χ² / ndf 9.518e+04 / 44
p0 41.63 ± 0.04692
3000
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 46.27 / 44
p0 4.677e−06 ± 5.864e−06
0.2
0.1
0
−0.1
−0.2
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 4
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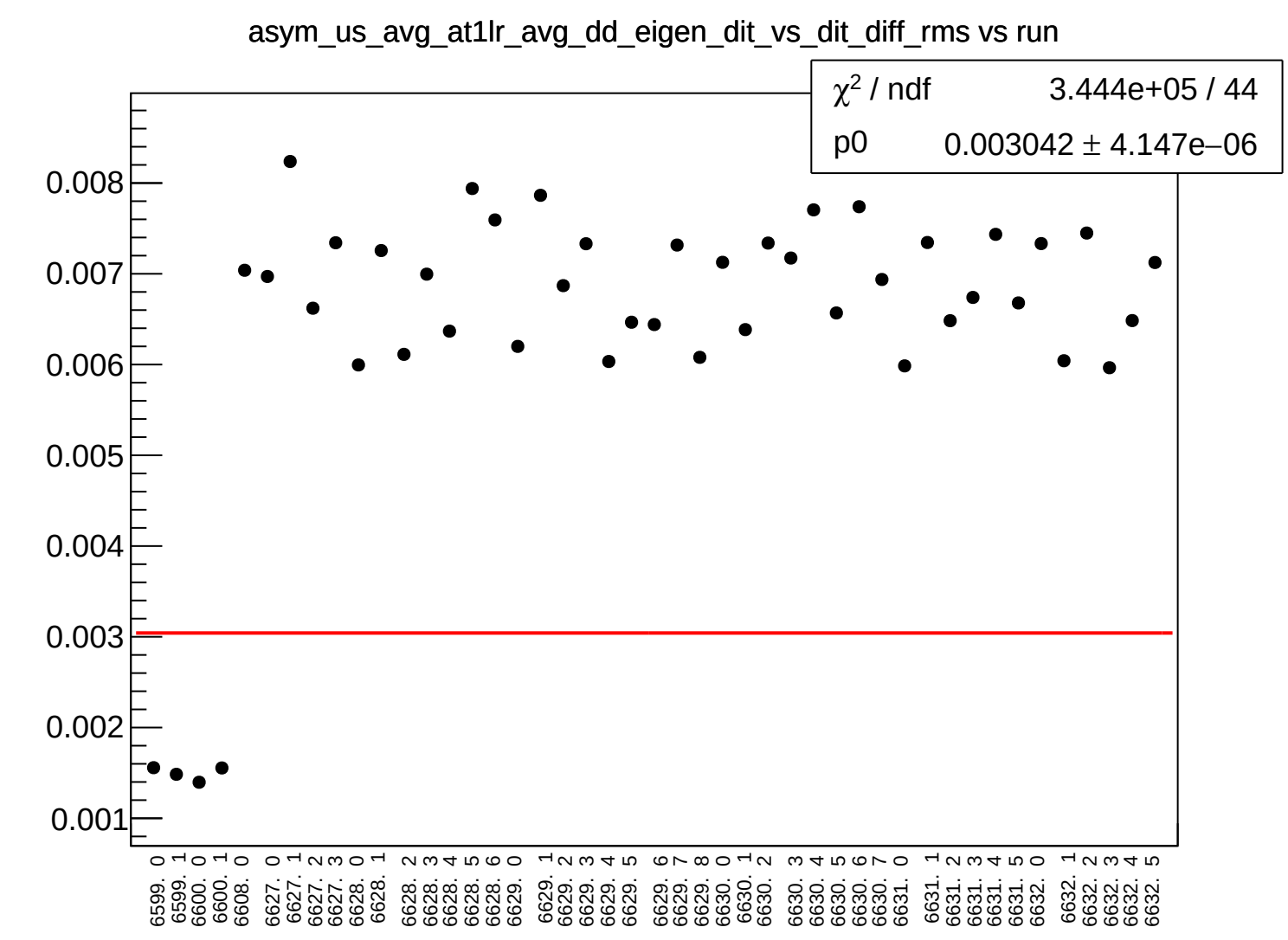
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 22.84
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.1882
Std Dev 0.9964
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.444e+05 / 44
p0 0.003042 ± 4.147e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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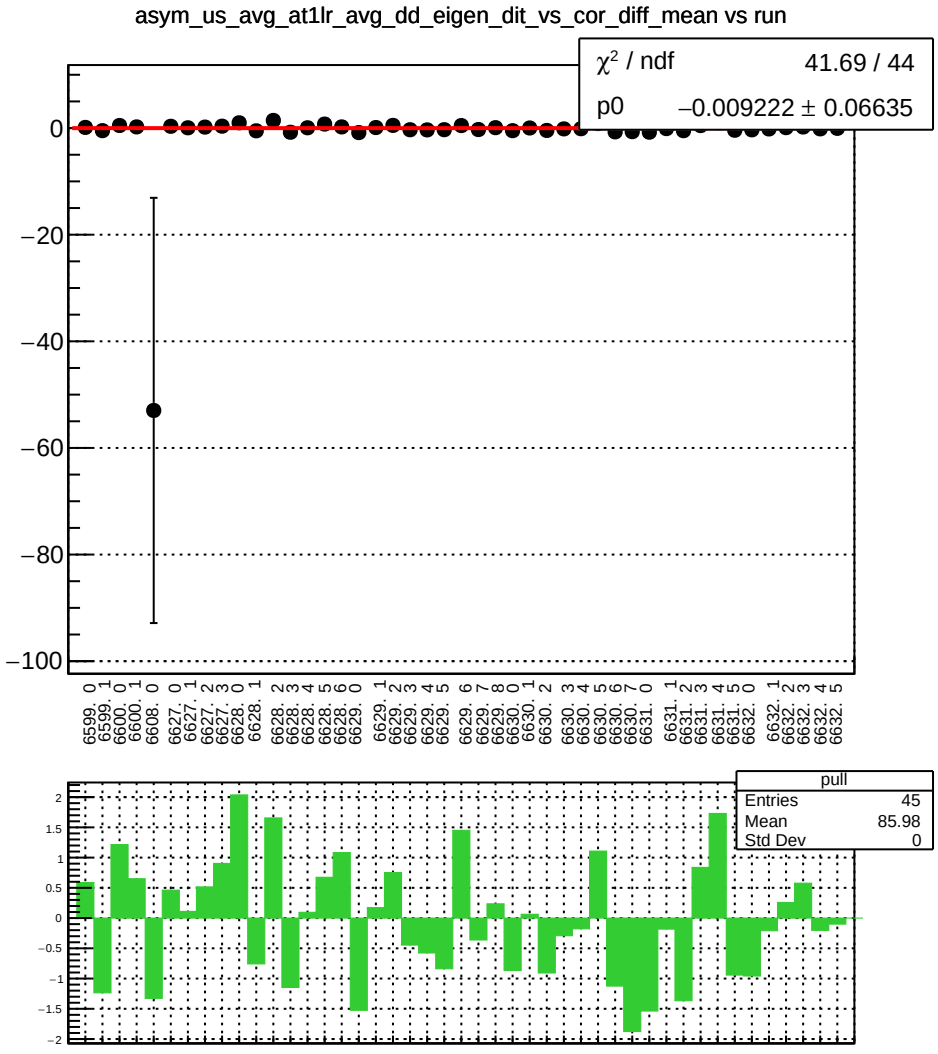
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 41.69 / 44
p0 −0.009222 ± 0.06635
0
−20
−40
−60
−80
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
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6630. 1
6630. 2
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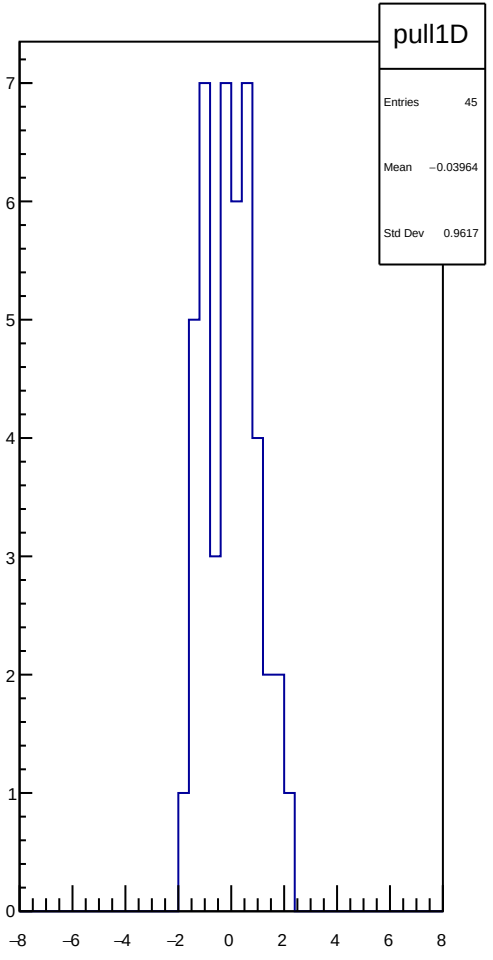
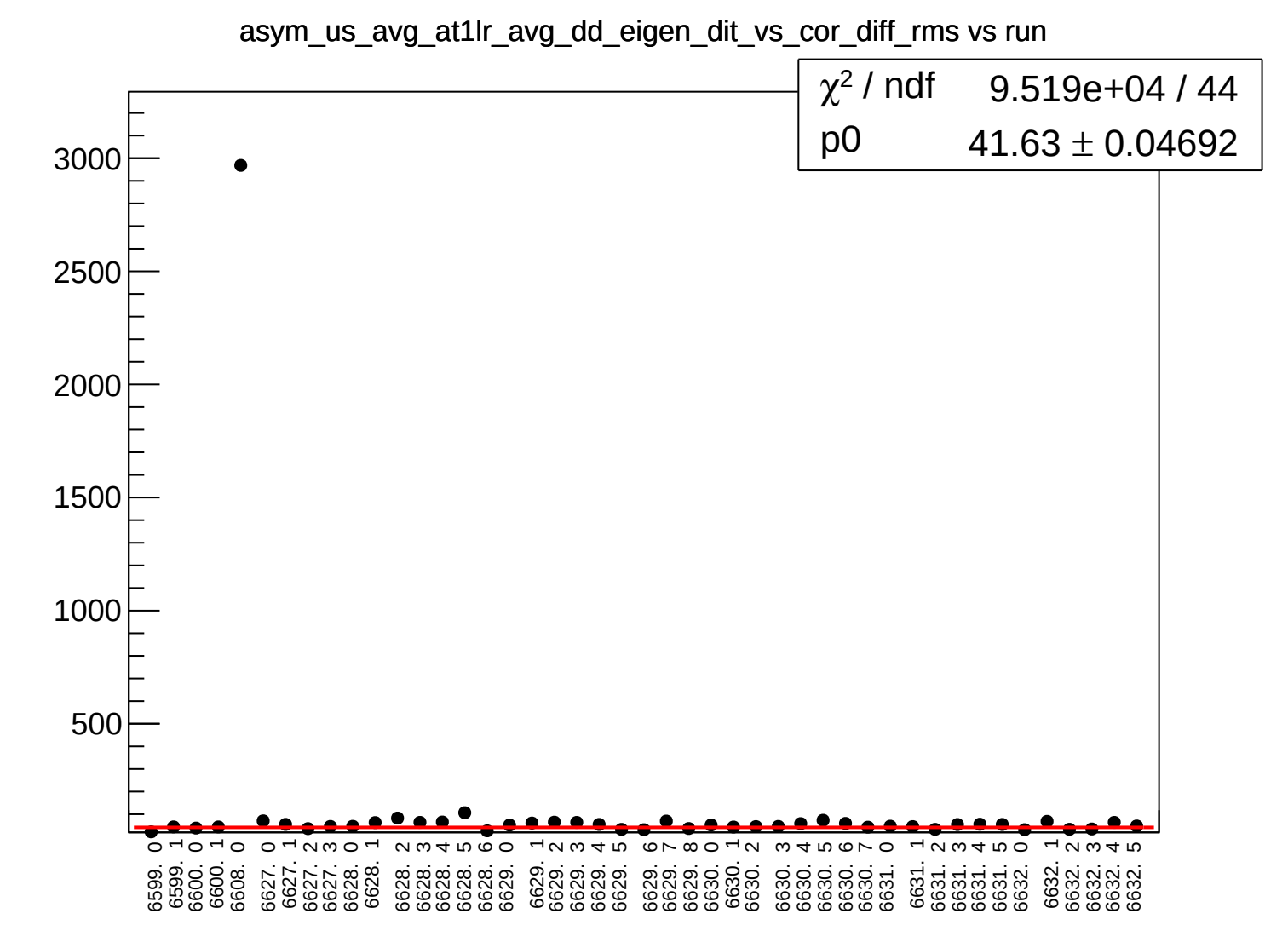
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 85.98
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.03964
Std Dev 0.9617
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_vs_cor_diff_rms vs run
χ² / ndf 9.519e+04 / 44
p0 41.63 ± 0.04692
3000
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
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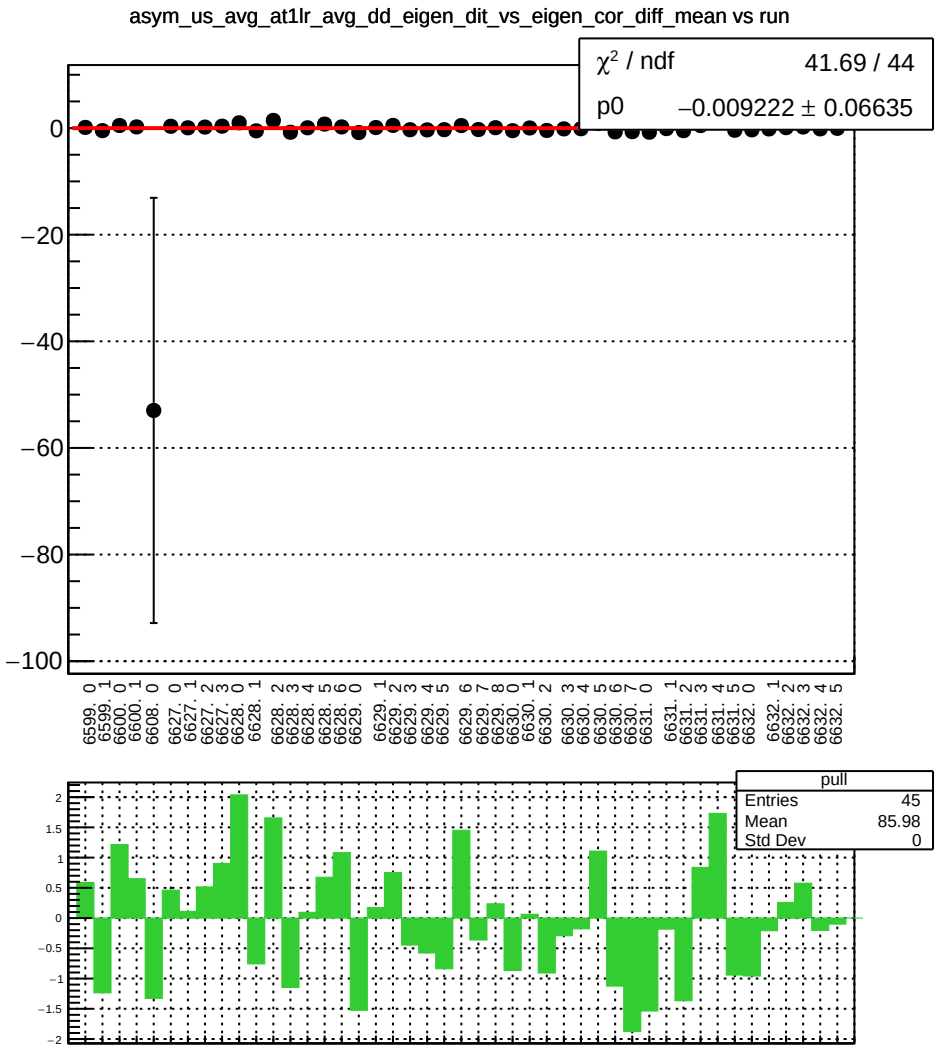
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.69 / 44
p0 −0.009222 ± 0.06635
0
−20
−40
−60
−80
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
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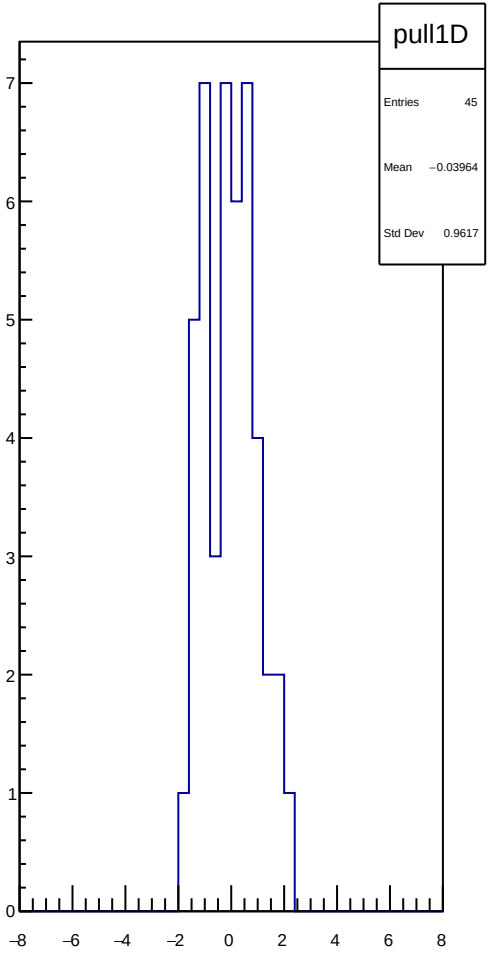
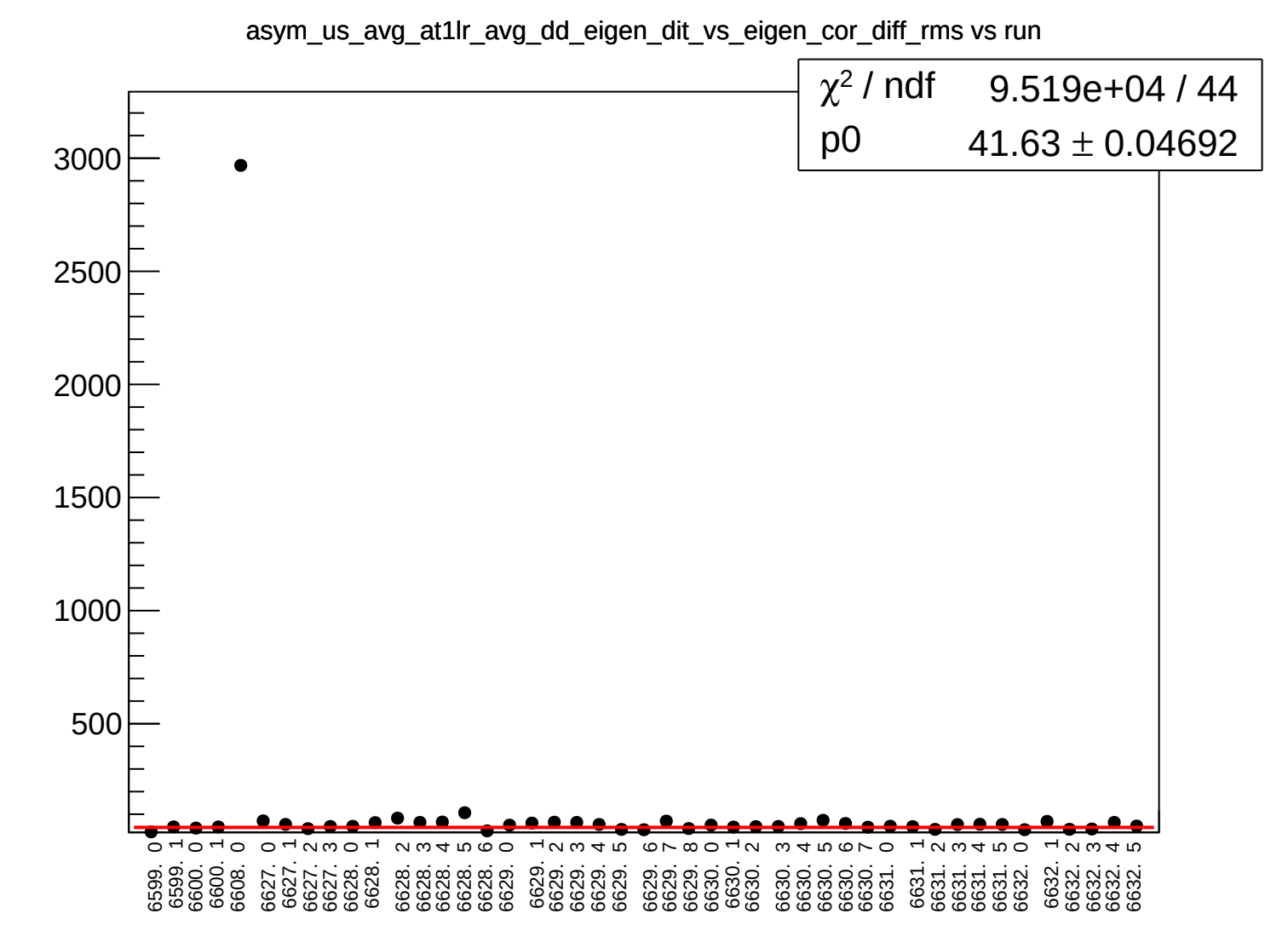
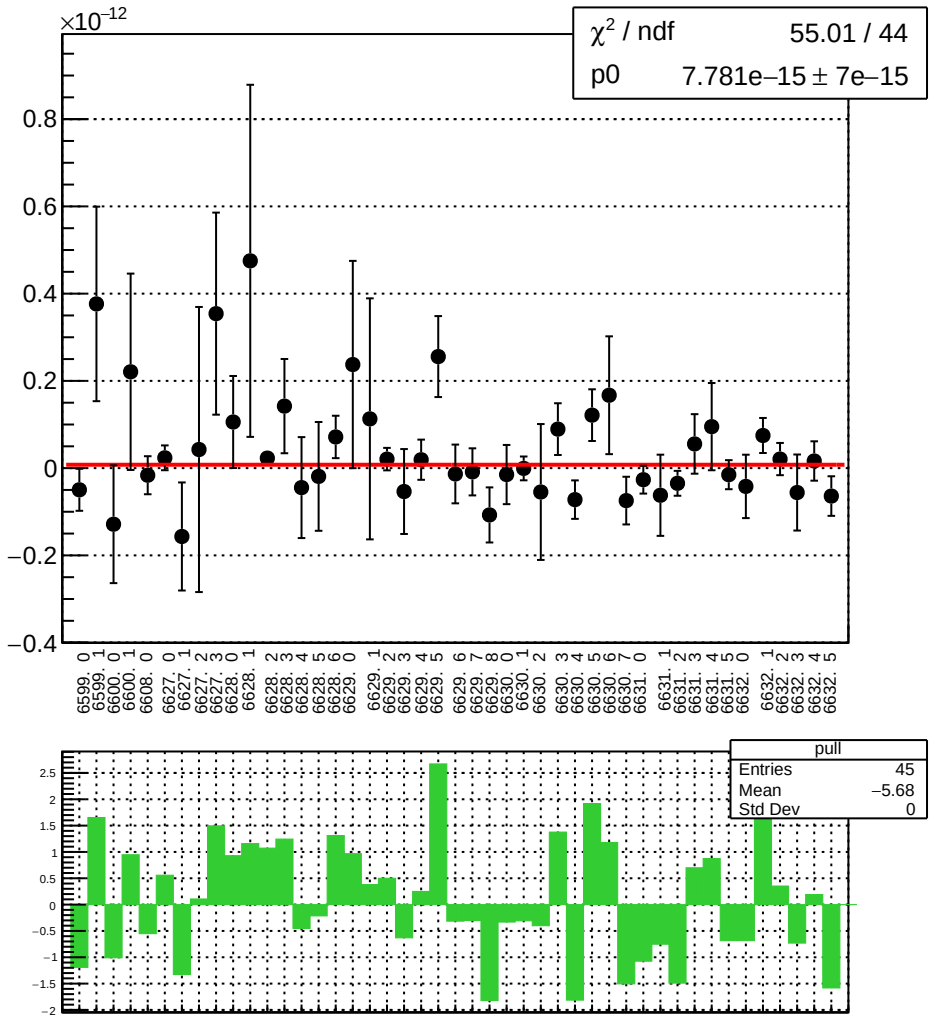
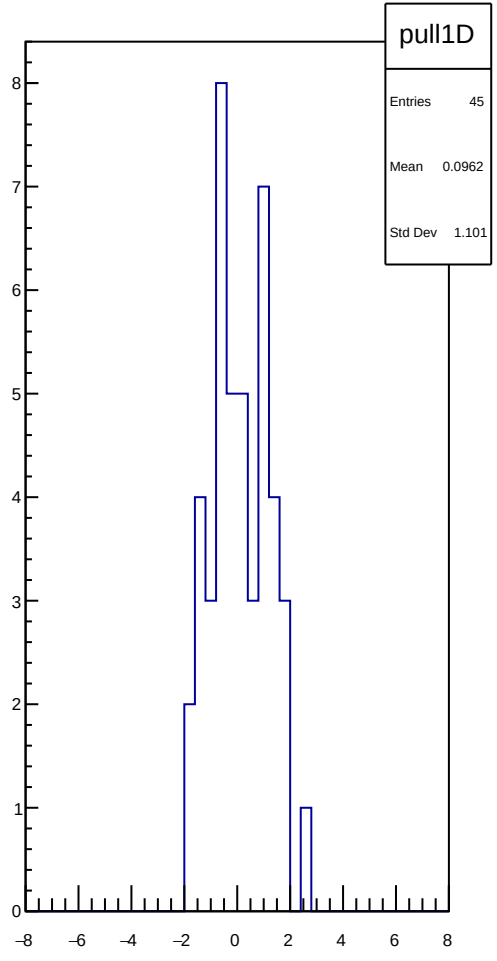
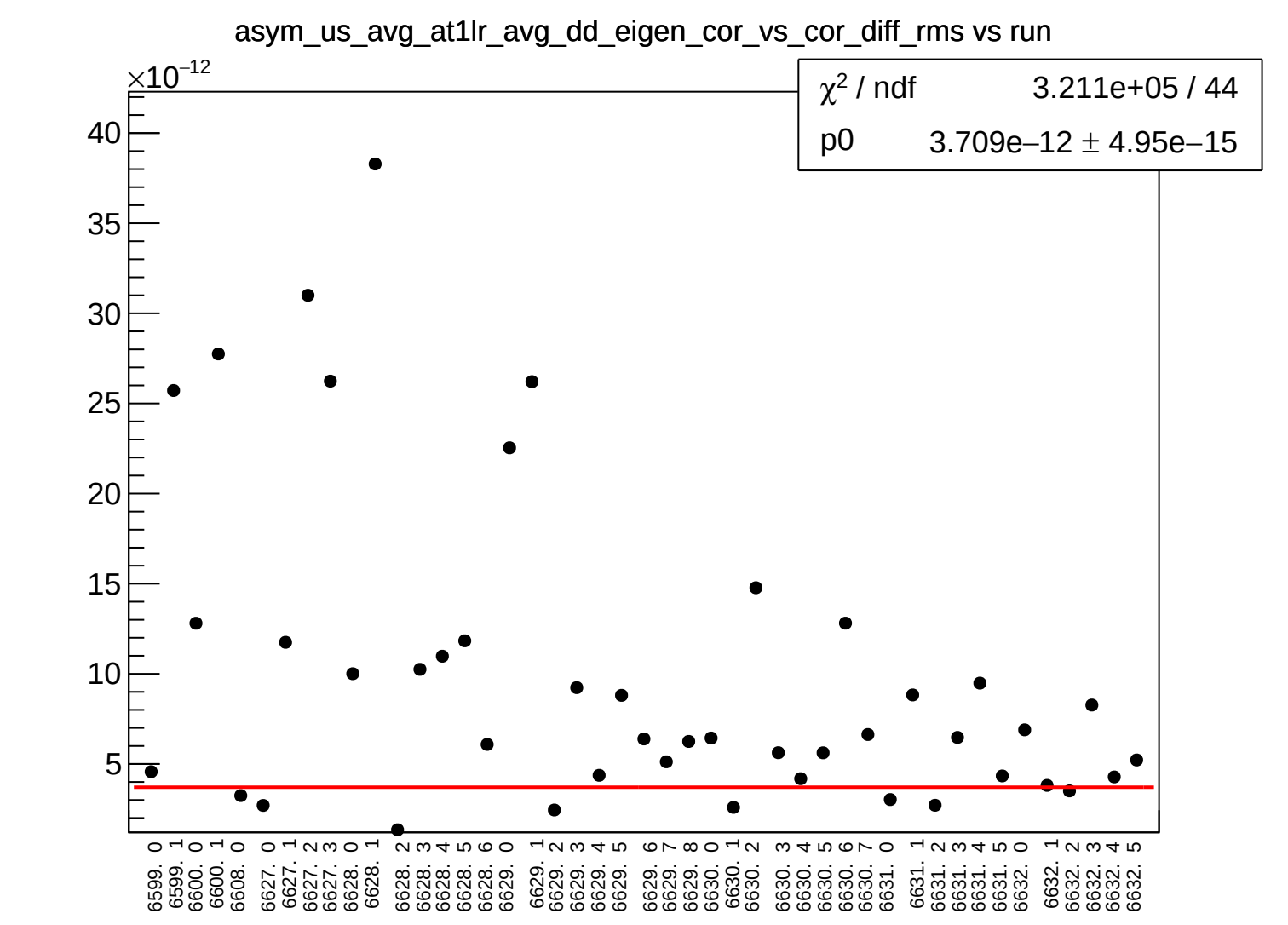
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 85.98
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

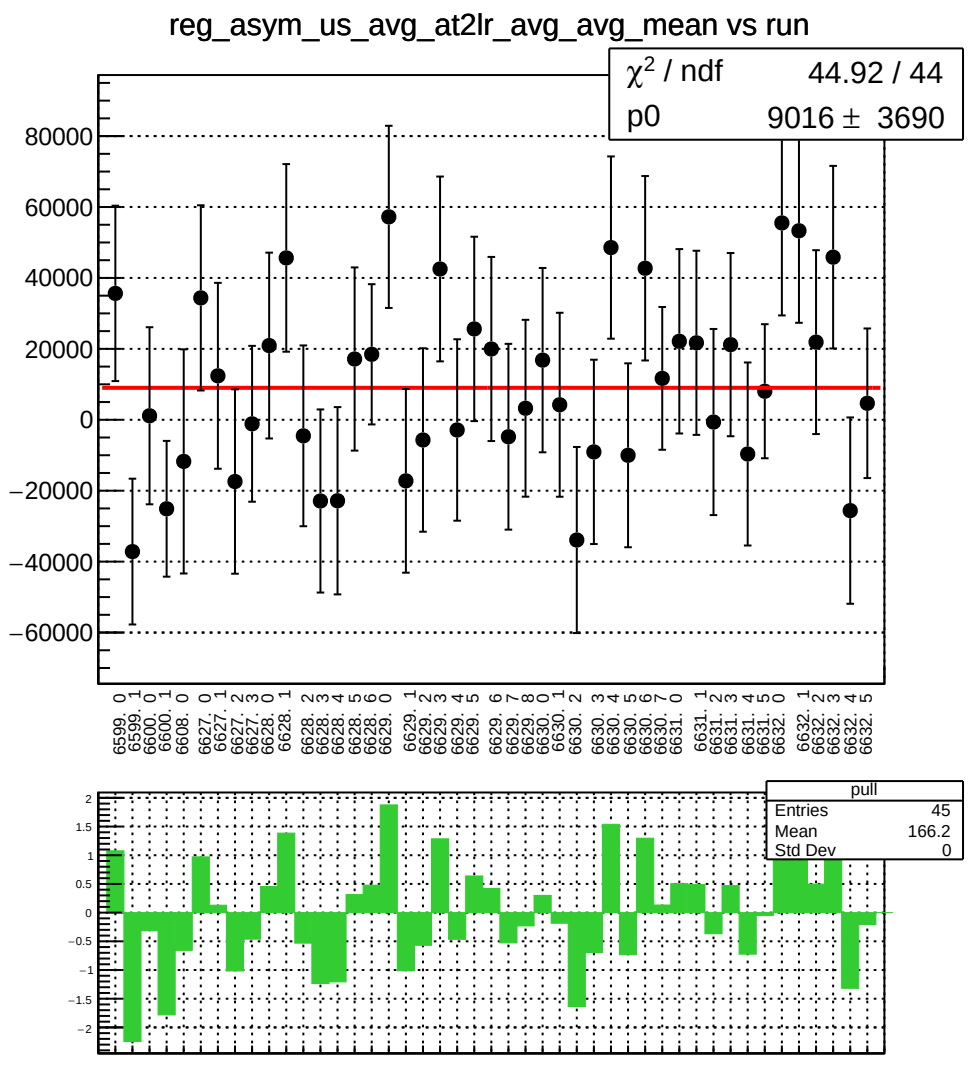

pull1D
Entries 45
Mean −0.03964
Std Dev 0.9617
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

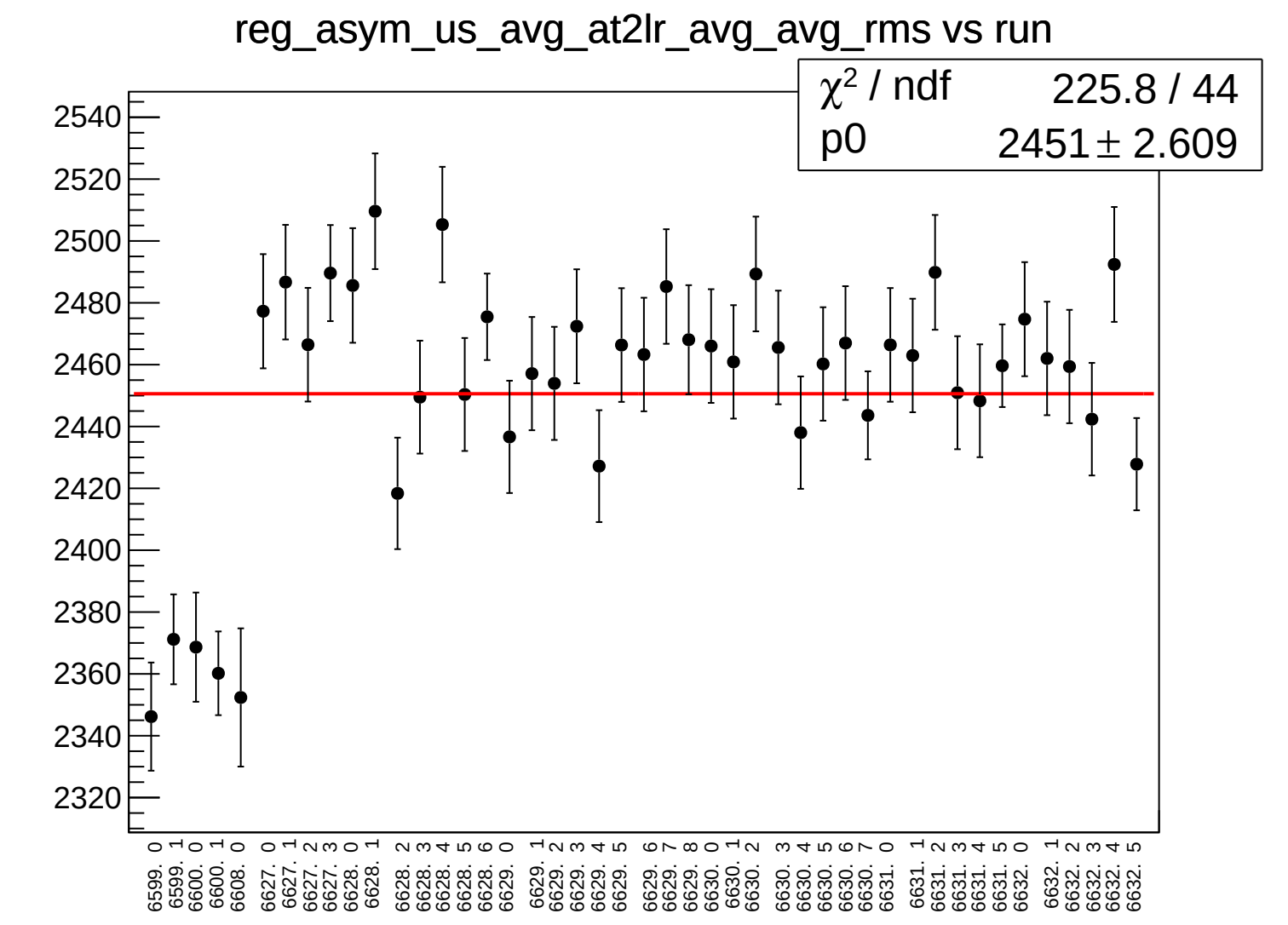

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.519e+04 / 44
p0 41.63 ± 0.04692
3000
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

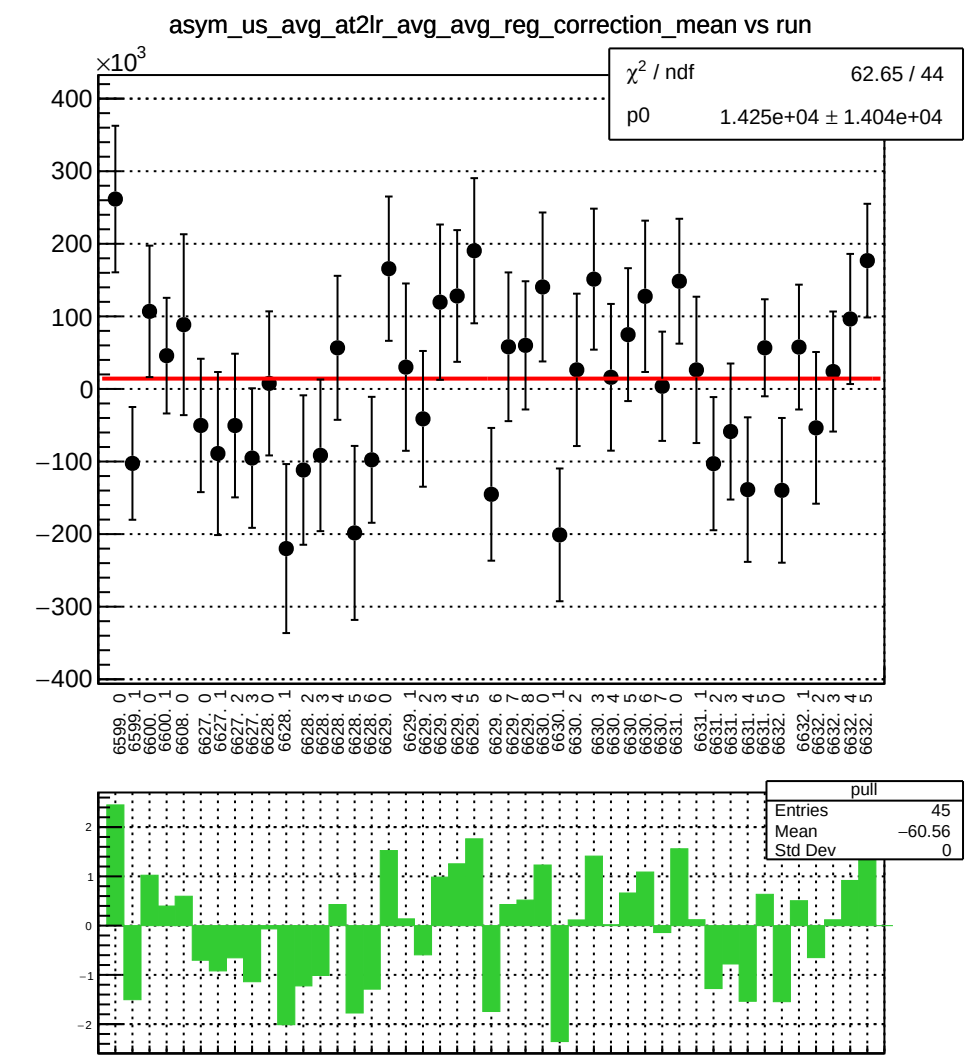

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 55.01 / 44
p0 7.781e−15 ± 7e−15
pull
Entries 45
Mean −5.68
Std Dev 0

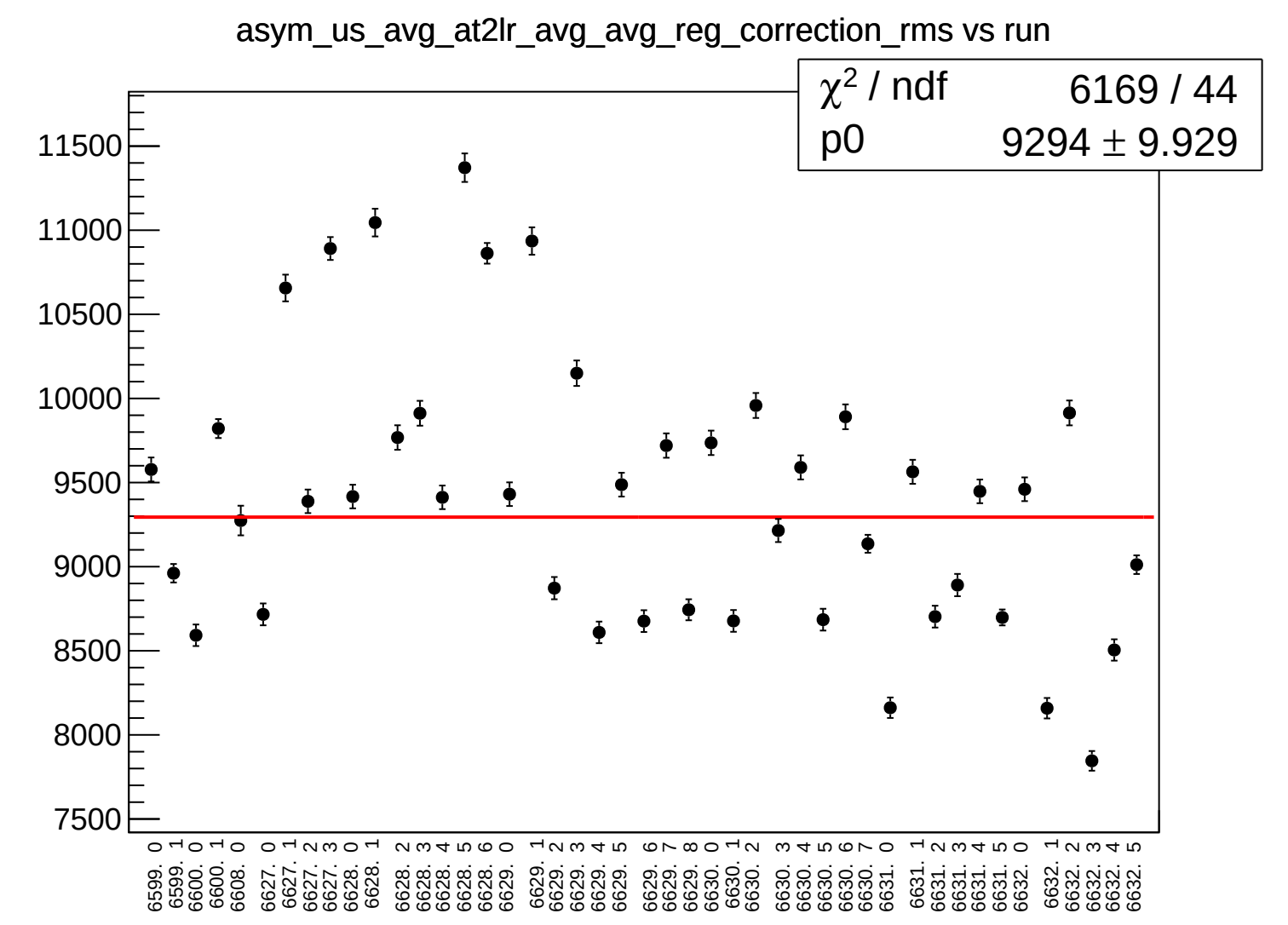

pull1D
Entries 45
Mean 0.0962
Std Dev 1.101

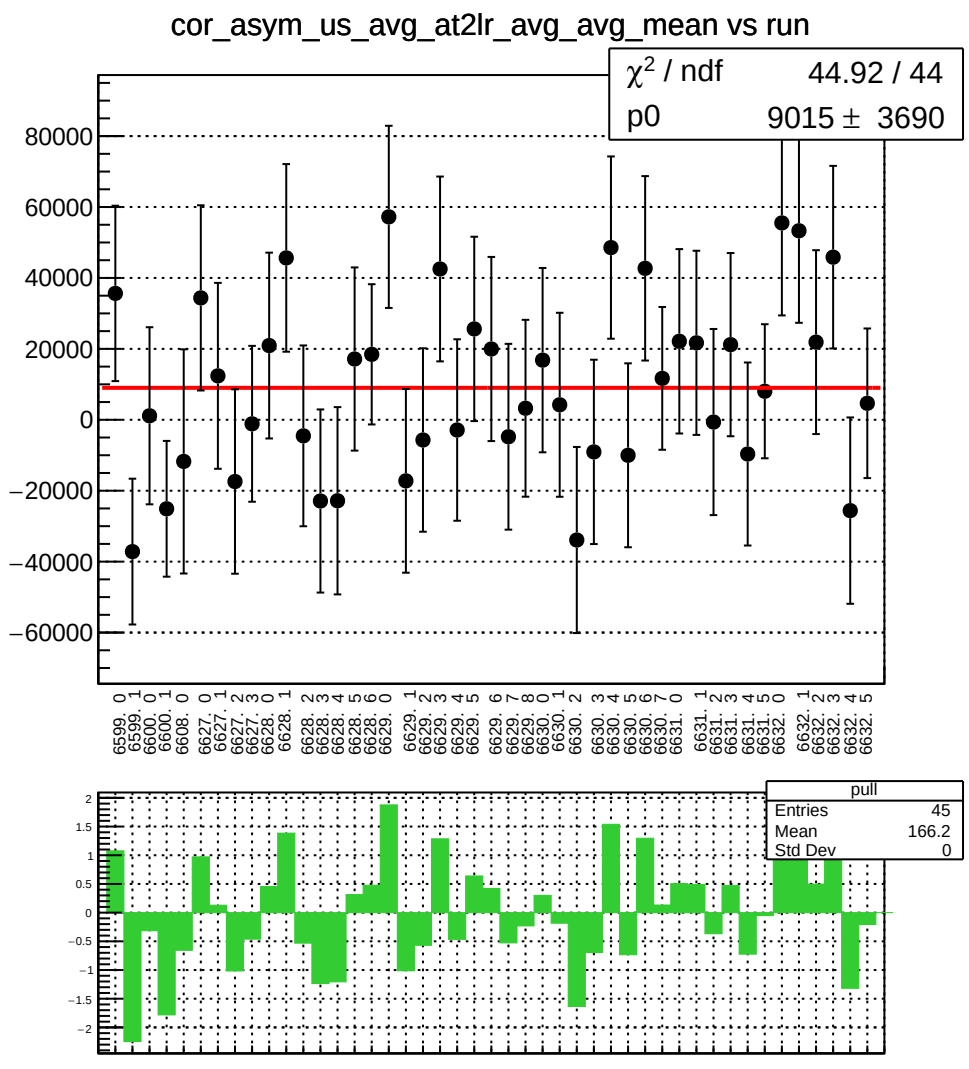

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.211e+05 / 44
p0 3.709e−12 ± 4.95e−15
40
35
30
25
20
15
10
5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

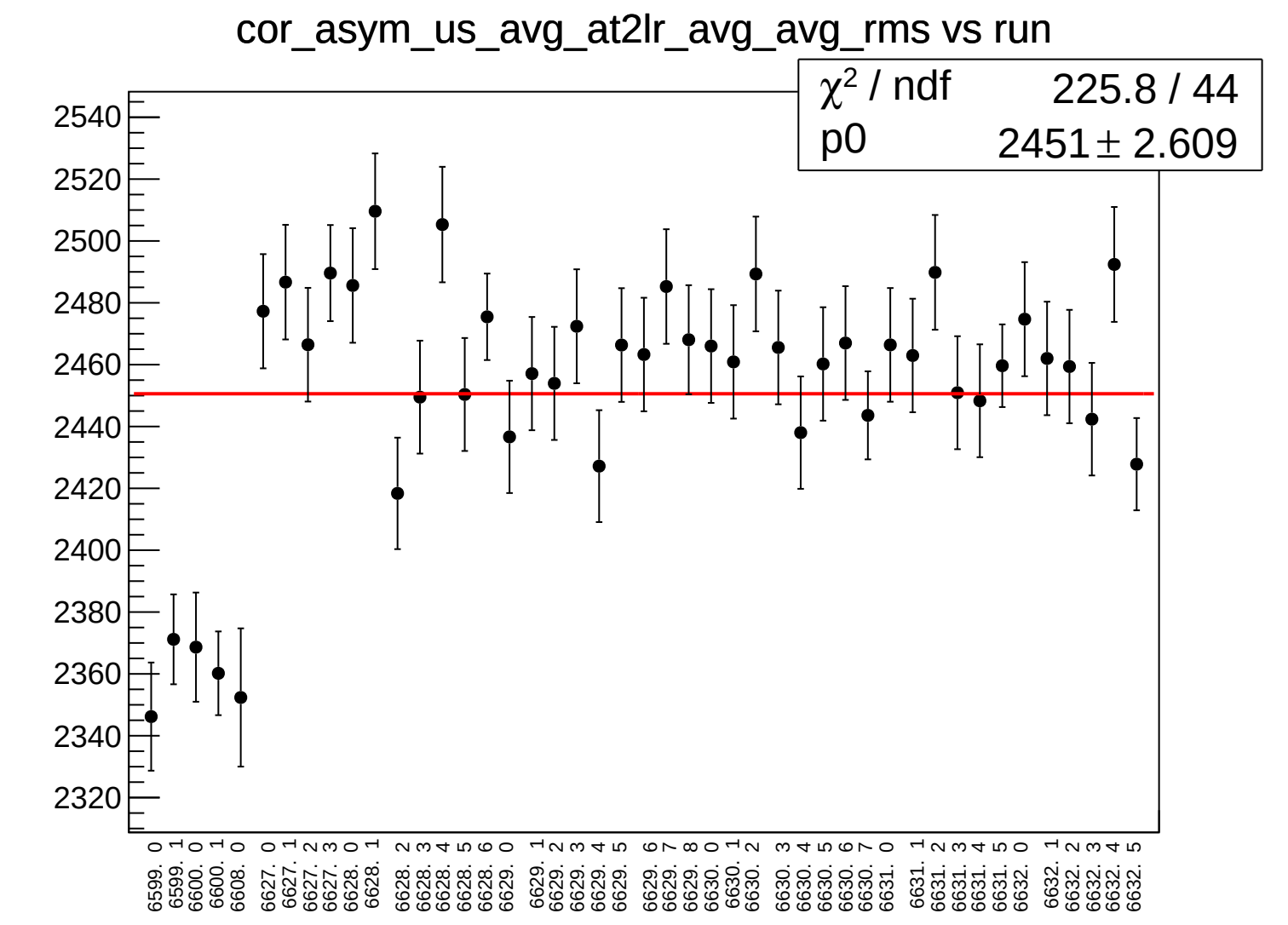

reg_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 44.92 / 44
p0 9016 ± 3690
80000
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 166.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.02242
Std Dev 0.9989
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

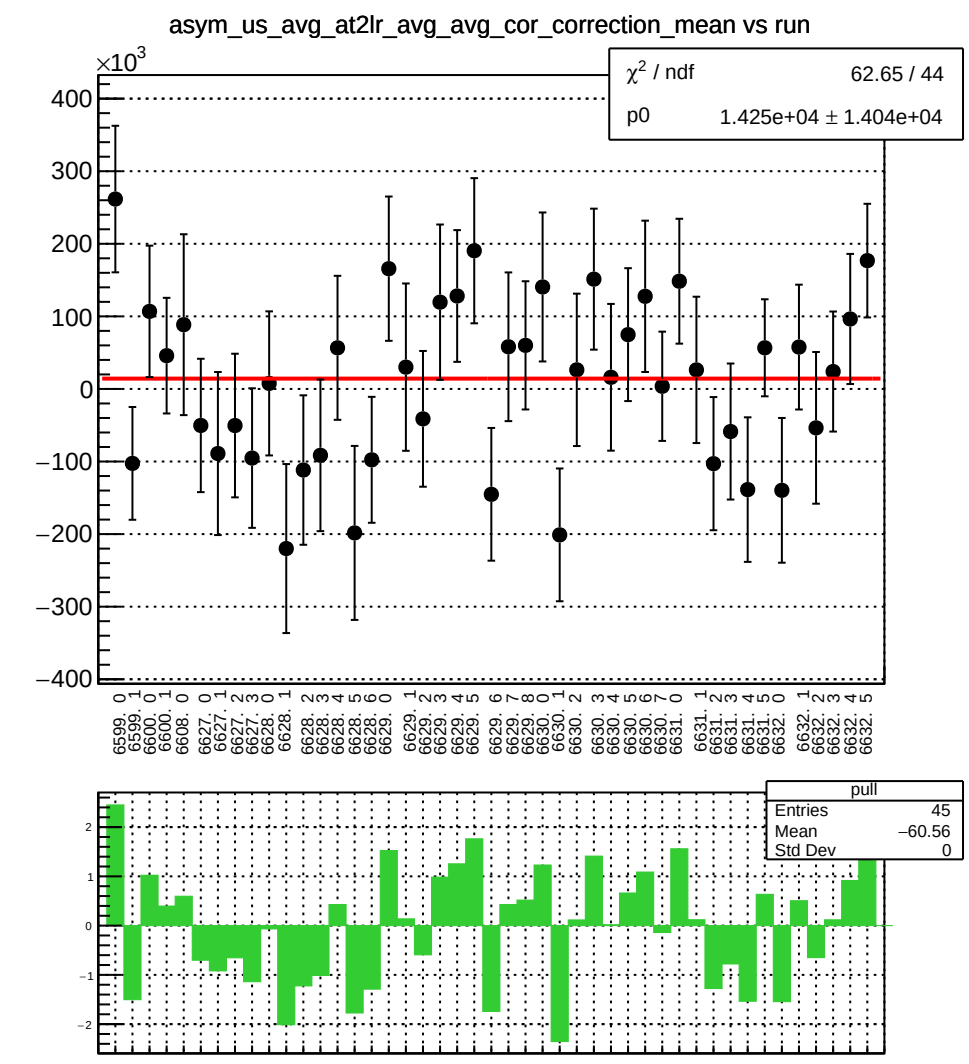

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 225.8 / 44
p0 2451 ± 2.609
2540
2520
2500
2480
2460
2440
2420
2400
2380
2360
2340
2320
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

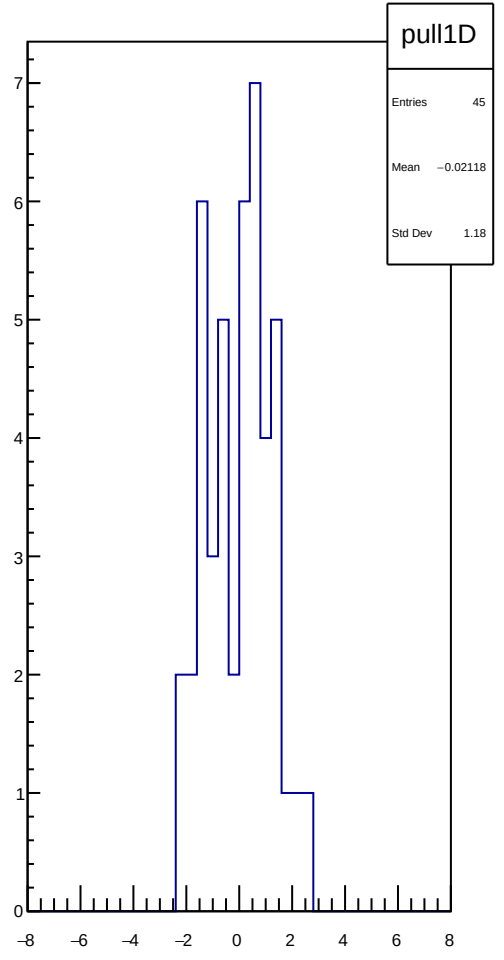

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 62.65 / 44
p0 1.425e+04 ± 1.404e+04
400
300
200
100
0
−100
−200
−300
−400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −60.56
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02118
Std Dev 1.18
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

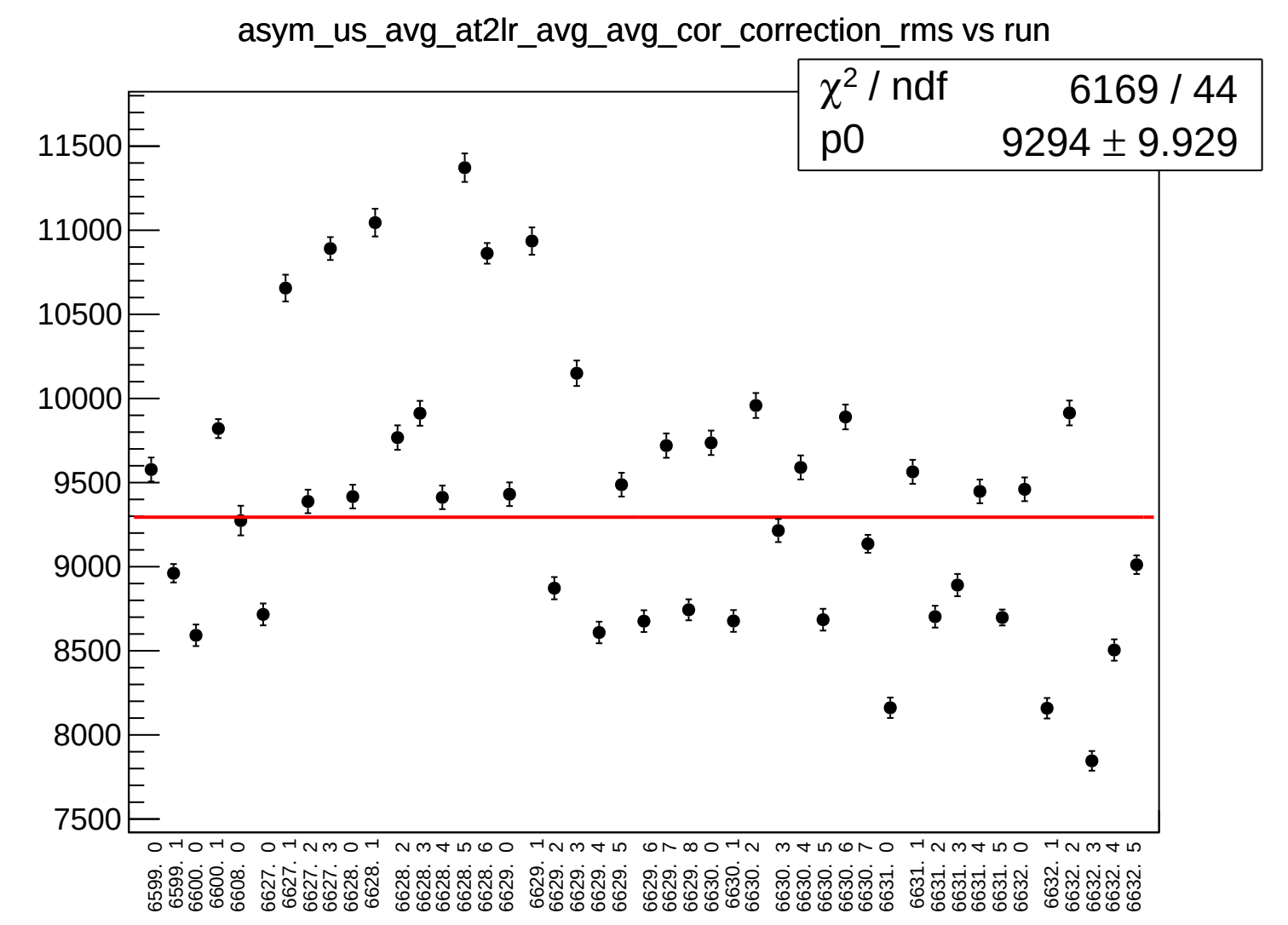

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 6169 / 44
p0 9294 ± 9.929
11500
11000
10500
10000
9500
9000
8500
8000
7500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 44.92 / 44
p0 9015 ± 3690
80000
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 166.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.02242
Std Dev 0.9989
9
8
7
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 225.8 / 44
p0 2451 ± 2.609
2540
2520
2500
2480
2460
2440
2420
2400
2380
2360
2340
2320
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 62.65 / 44
p0 1.425e+04 ± 1.404e+04
pull
Entries 45
Mean −60.56
Std Dev 0


pull1D
Entries 45
Mean −0.02118
Std Dev 1.18


asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 6169 / 44
p0 9294 ± 9.929
11500
11000
10500
10000
9500
9000
8500
8000
7500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
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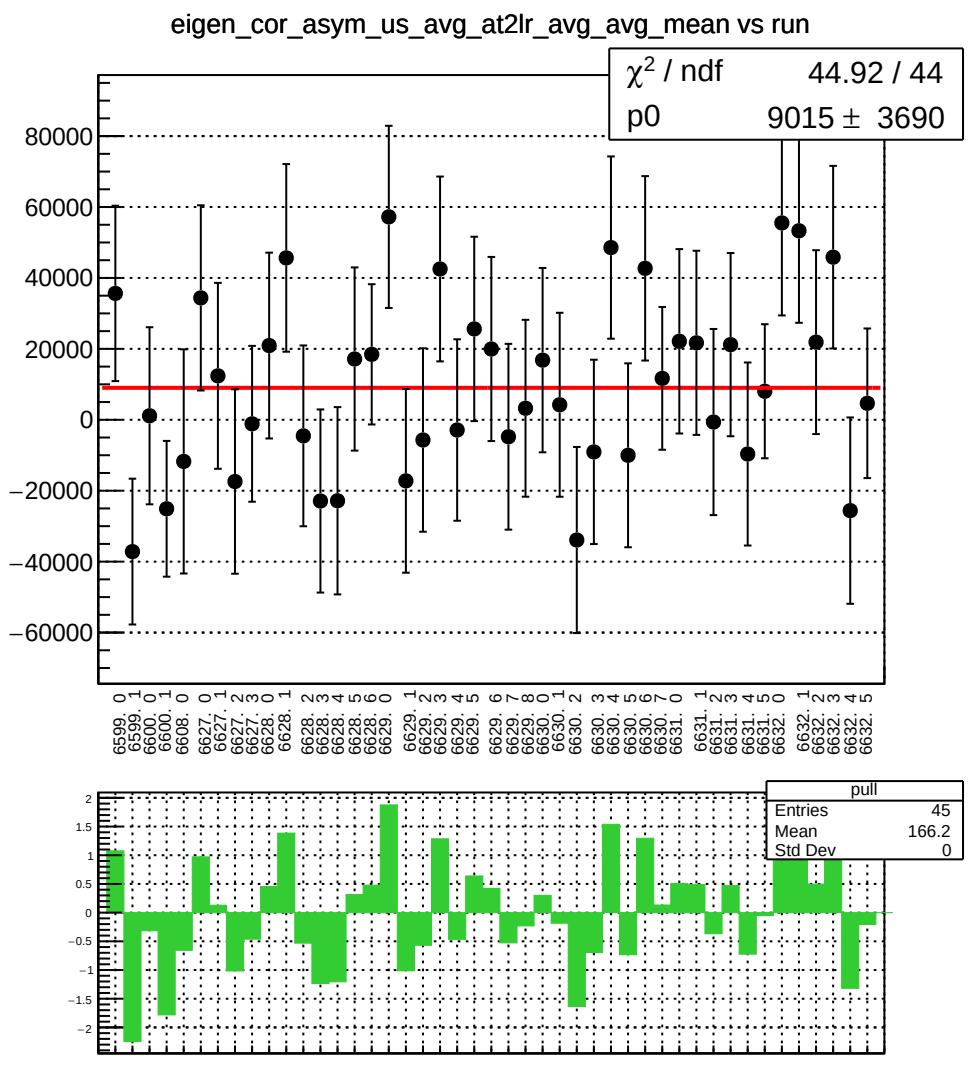
6632. 2
6632. 3
6632. 4
6632. 5


eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 44.92 / 44
p0 9015 ± 3690
80000
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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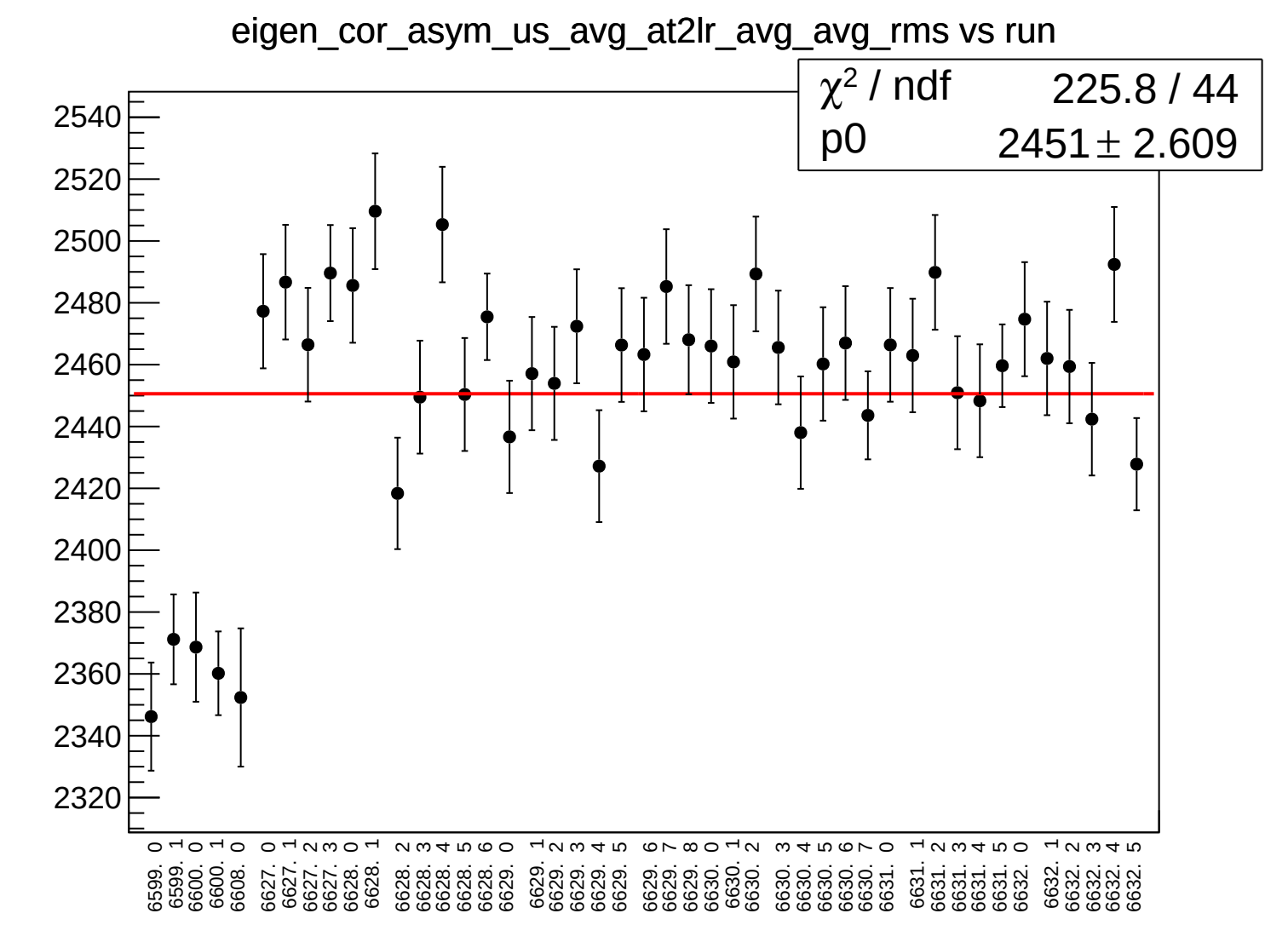
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 166.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.02242
Std Dev 0.9989
9
8
7
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 225.8 / 44
p0 2451 ± 2.609
2540
2520
2500
2480
2460
2440
2420
2400
2380
2360
2340
2320
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
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6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 5
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6632. 1
6632. 2
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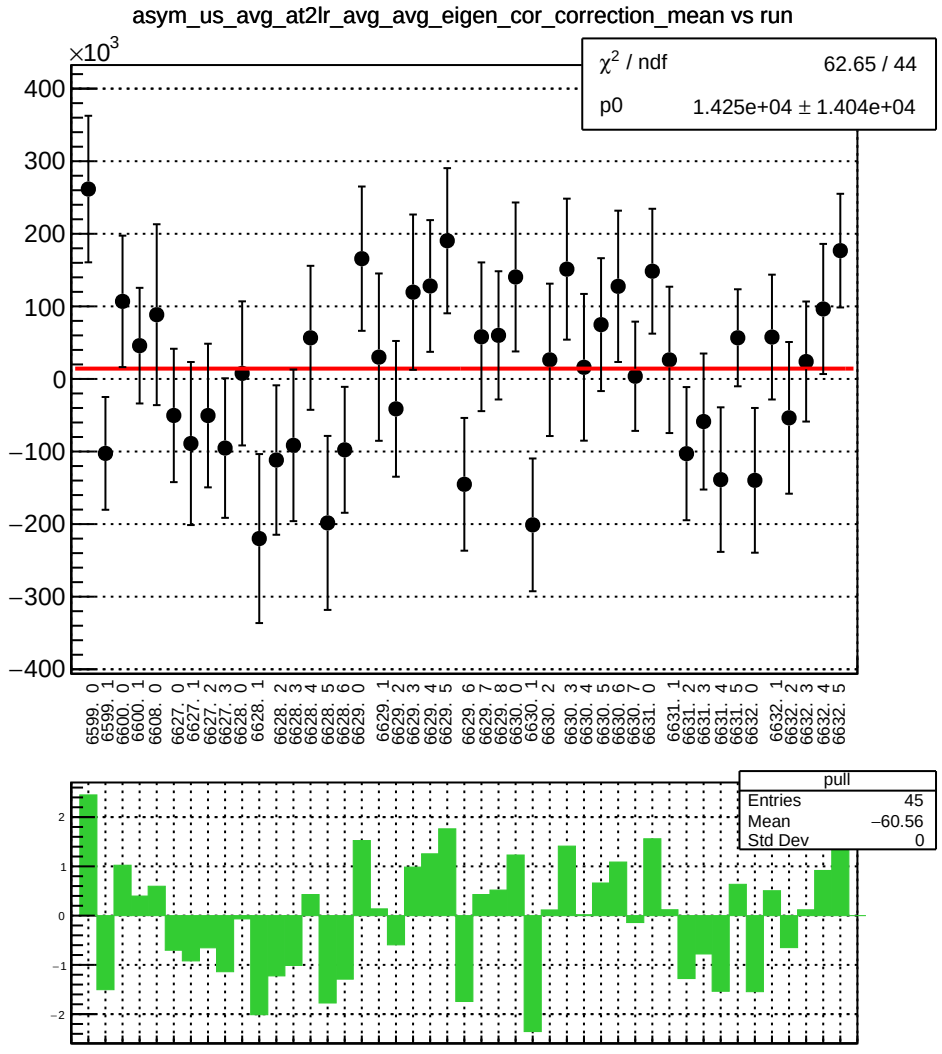
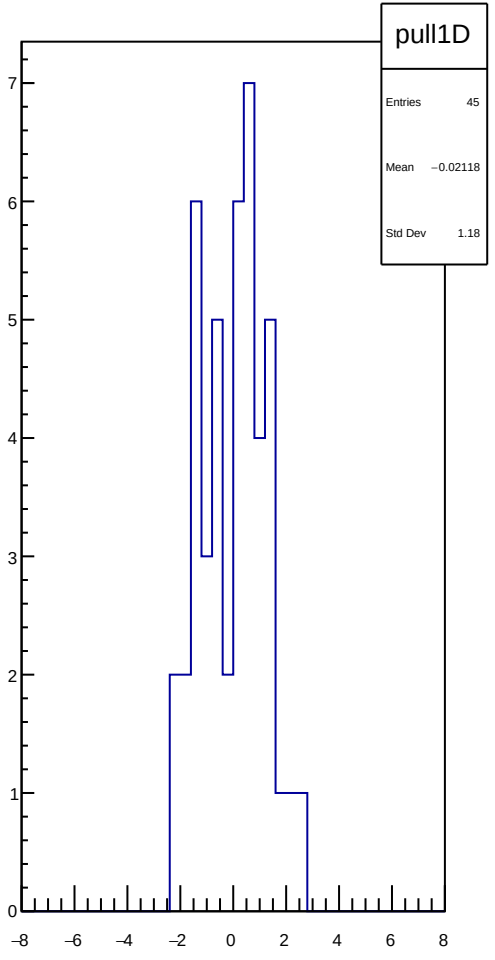
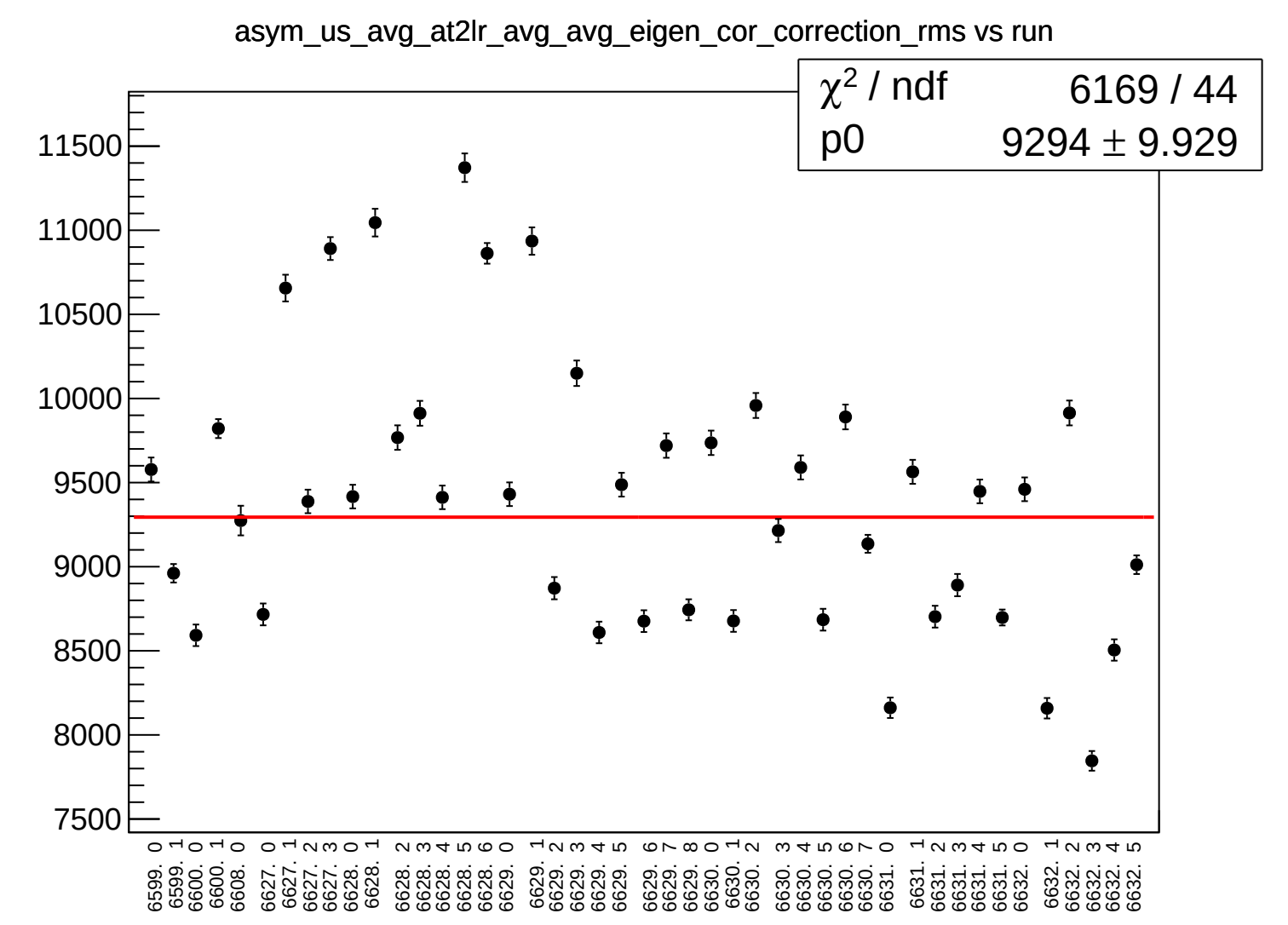
6632. 4
6632. 5


asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 62.65 / 44
p0 1.425e+04 ± 1.404e+04
pull
Entries 45
Mean −60.56
Std Dev 0


pull1D
Entries 45
Mean −0.02118
Std Dev 1.18


asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 6169 / 44
p0 9294 ± 9.929
11500
11000
10500
10000
9500
9000
8500
8000
7500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6628. 6
6629. 0
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6629. 2
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6629. 7
6629. 8
6630. 0
6630. 1
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6630. 5
6630. 6
6630. 7
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6632. 2
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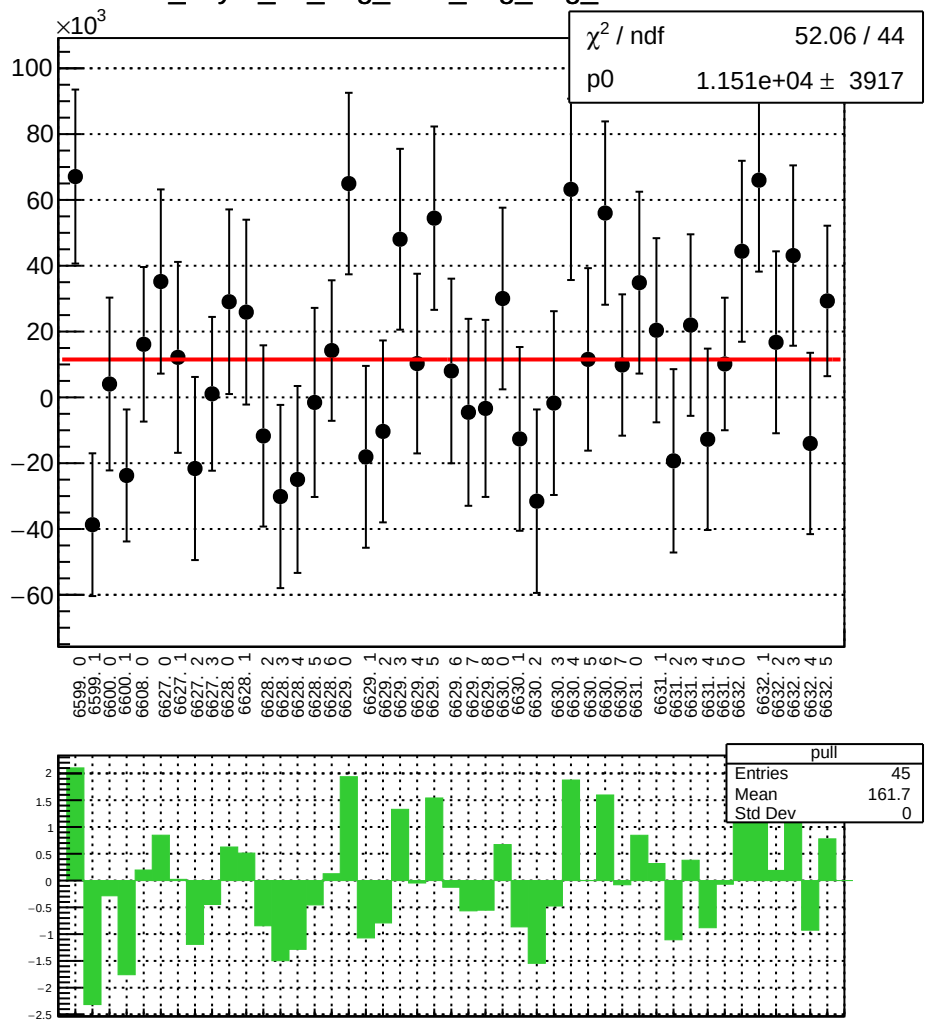
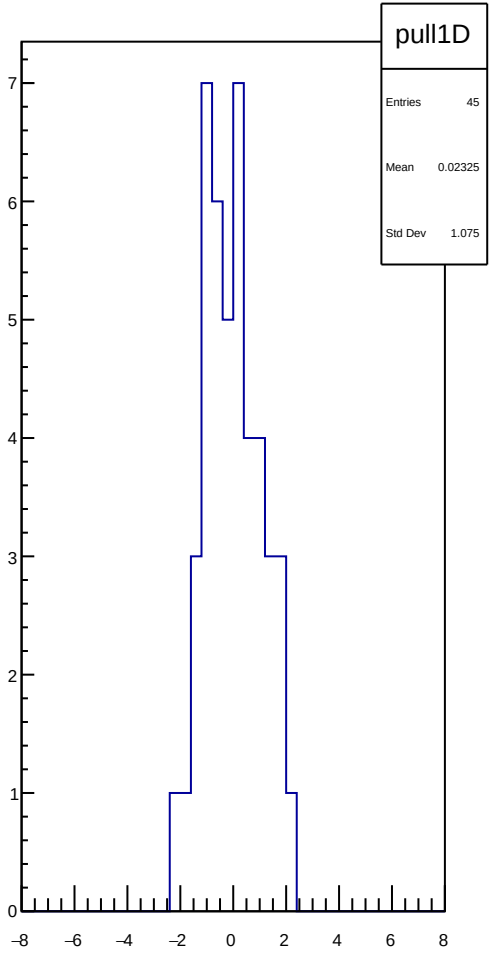
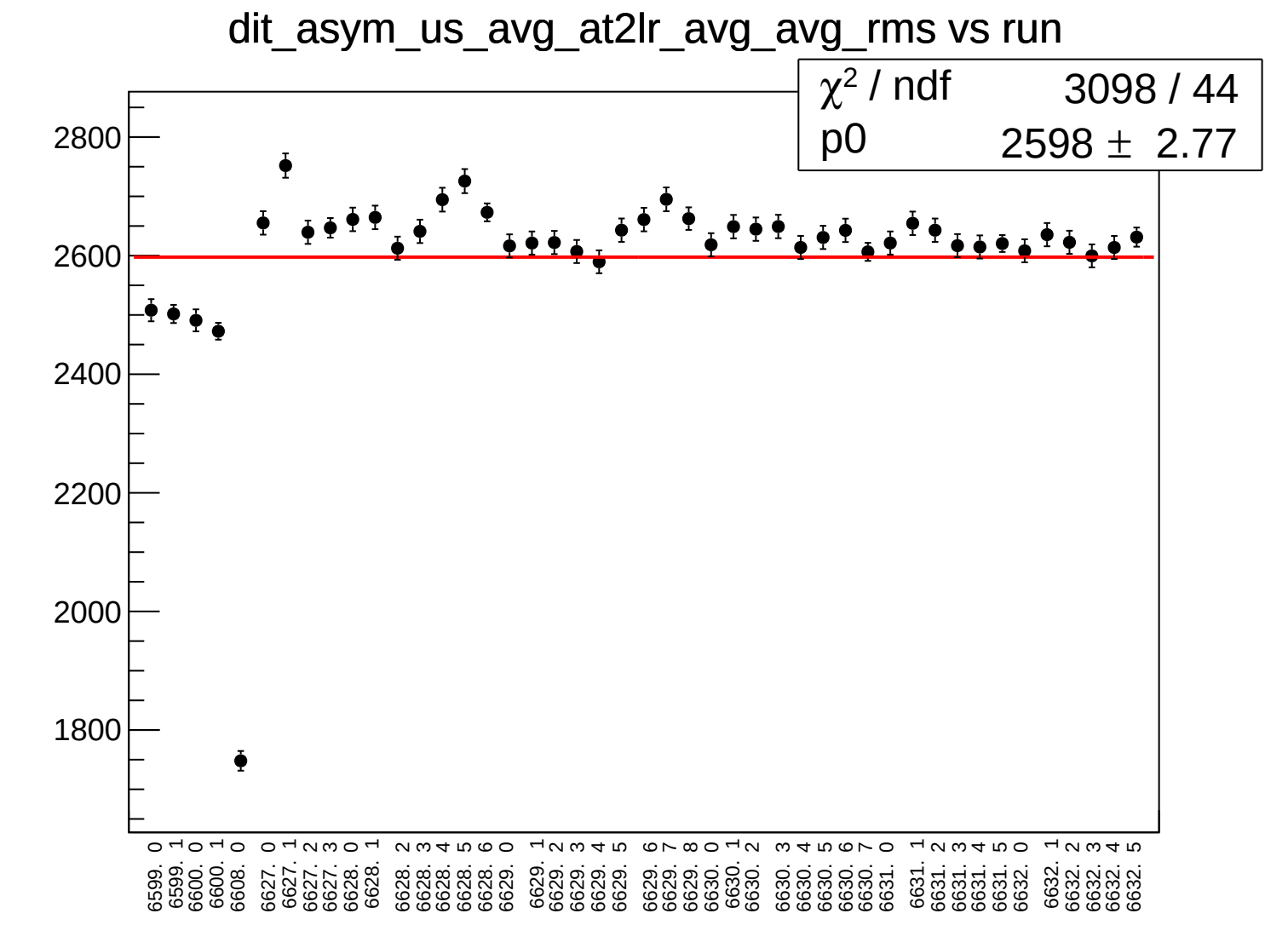
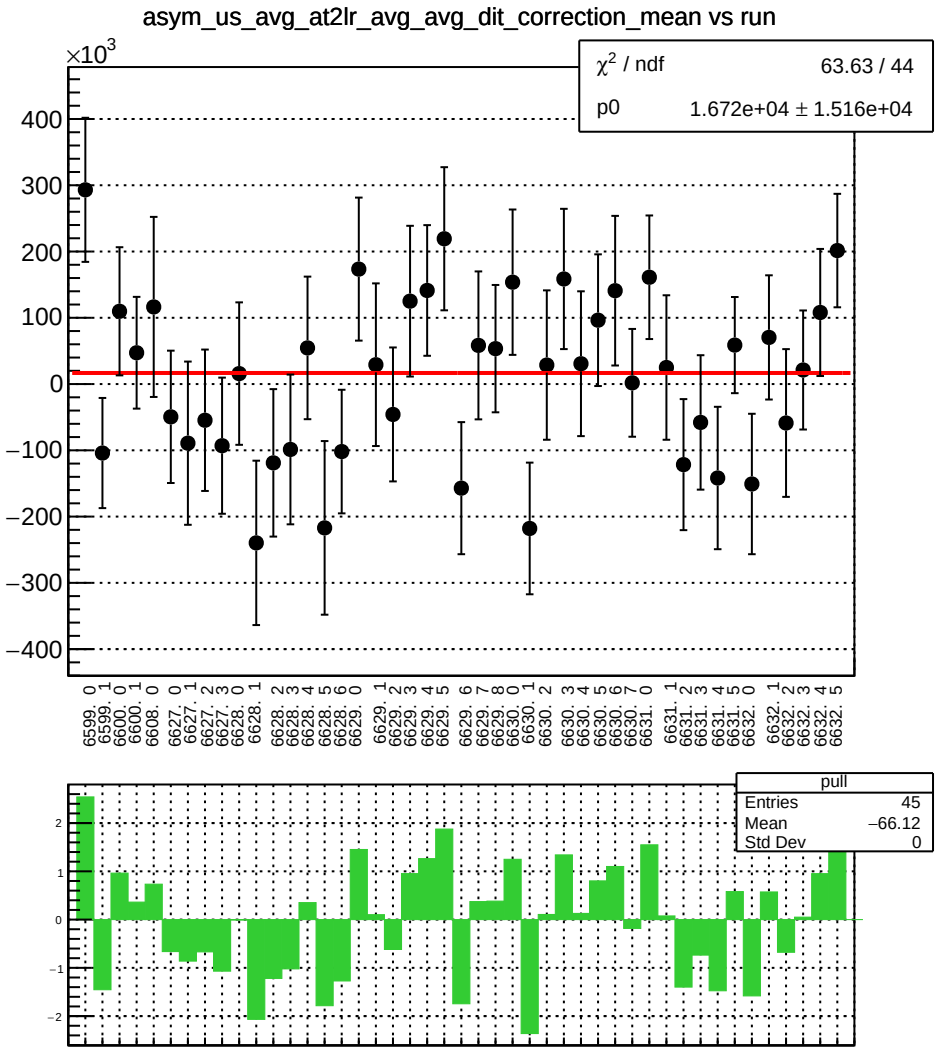
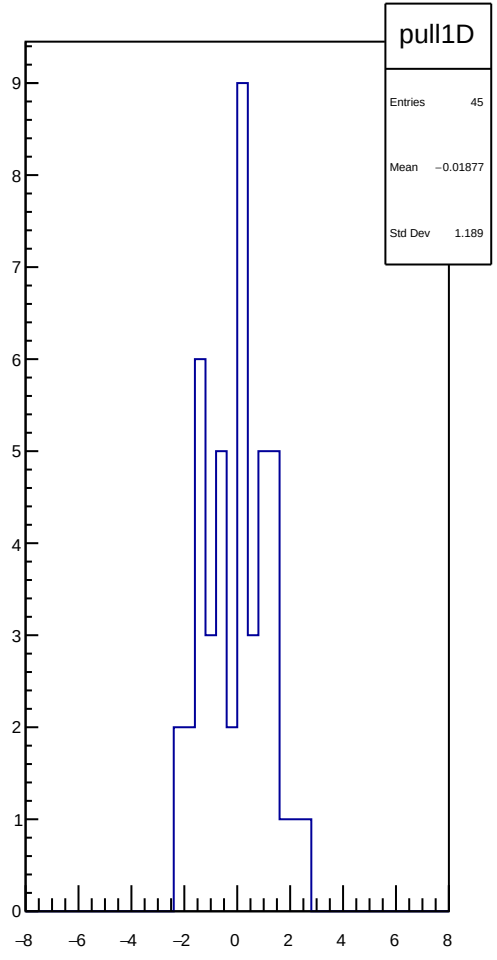
6632. 4
6632. 5

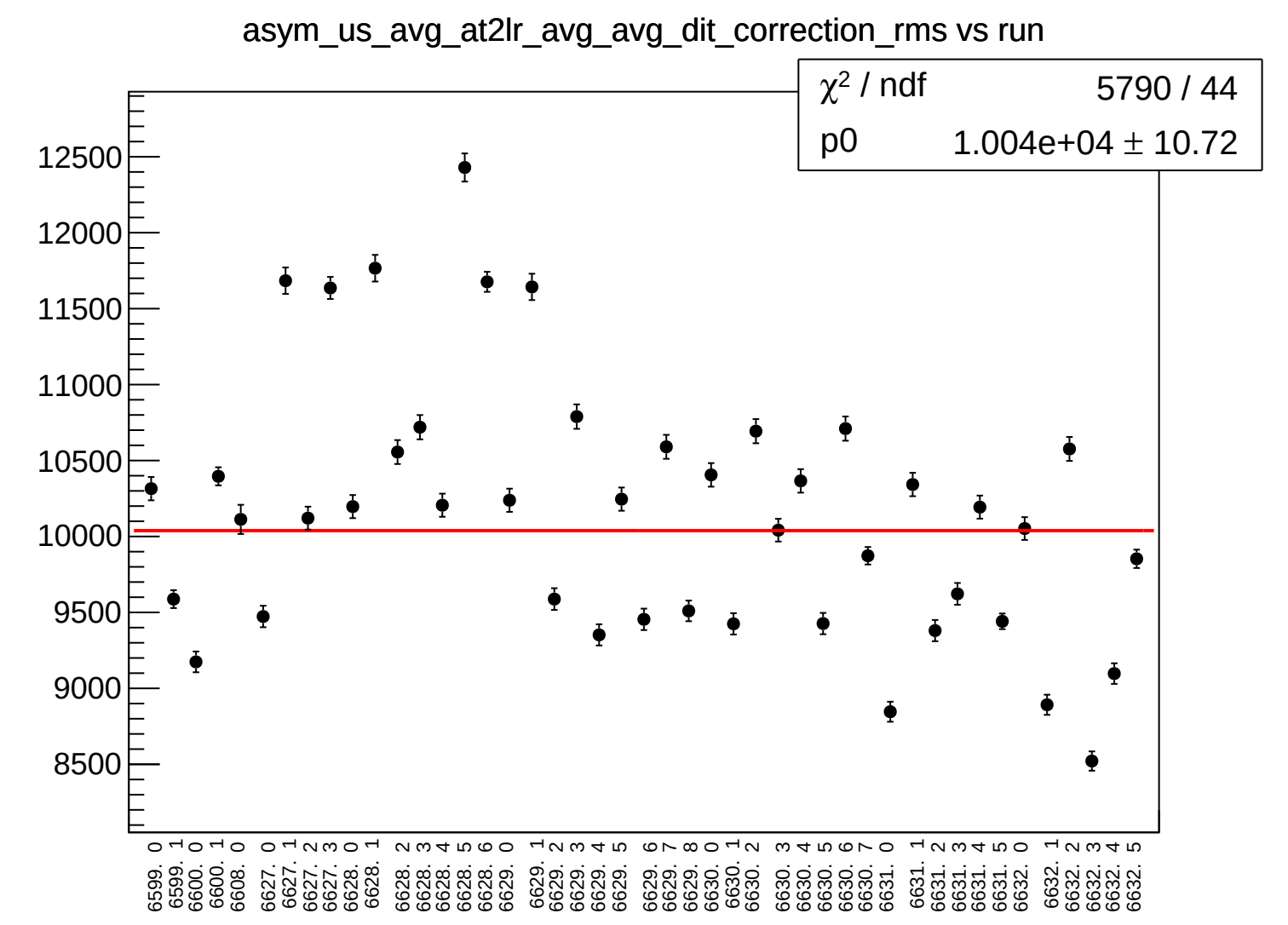

dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 52.06 / 44
p0 1.151e+04 ± 3917
pull
Entries 45
Mean 161.7
Std Dev 0

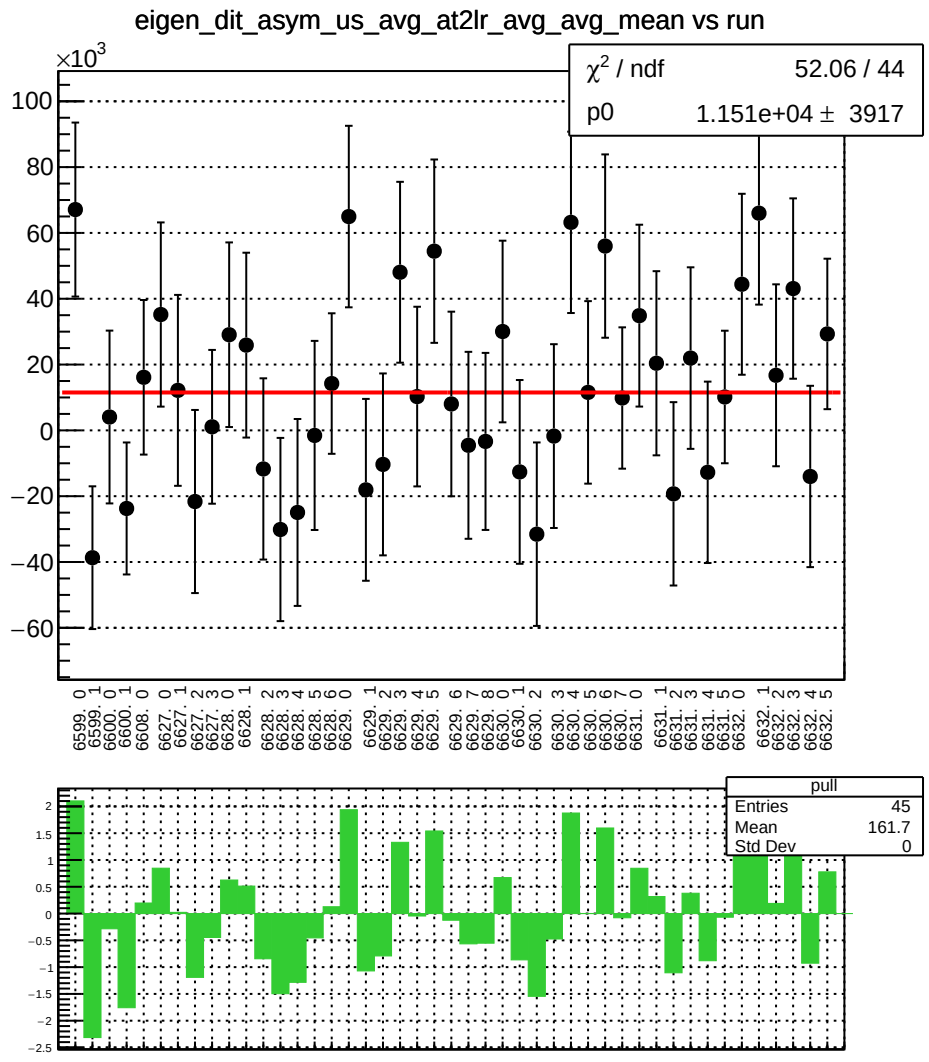

pull1D
Entries 45
Mean 0.02325
Std Dev 1.075

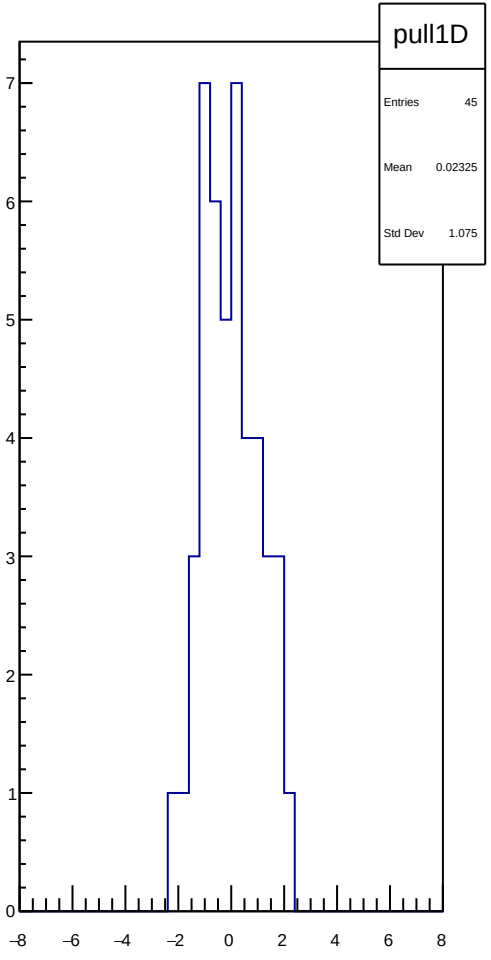

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 3098 / 44
p0 2598 ± 2.77
2800
2600
2400
2200
2000
1800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

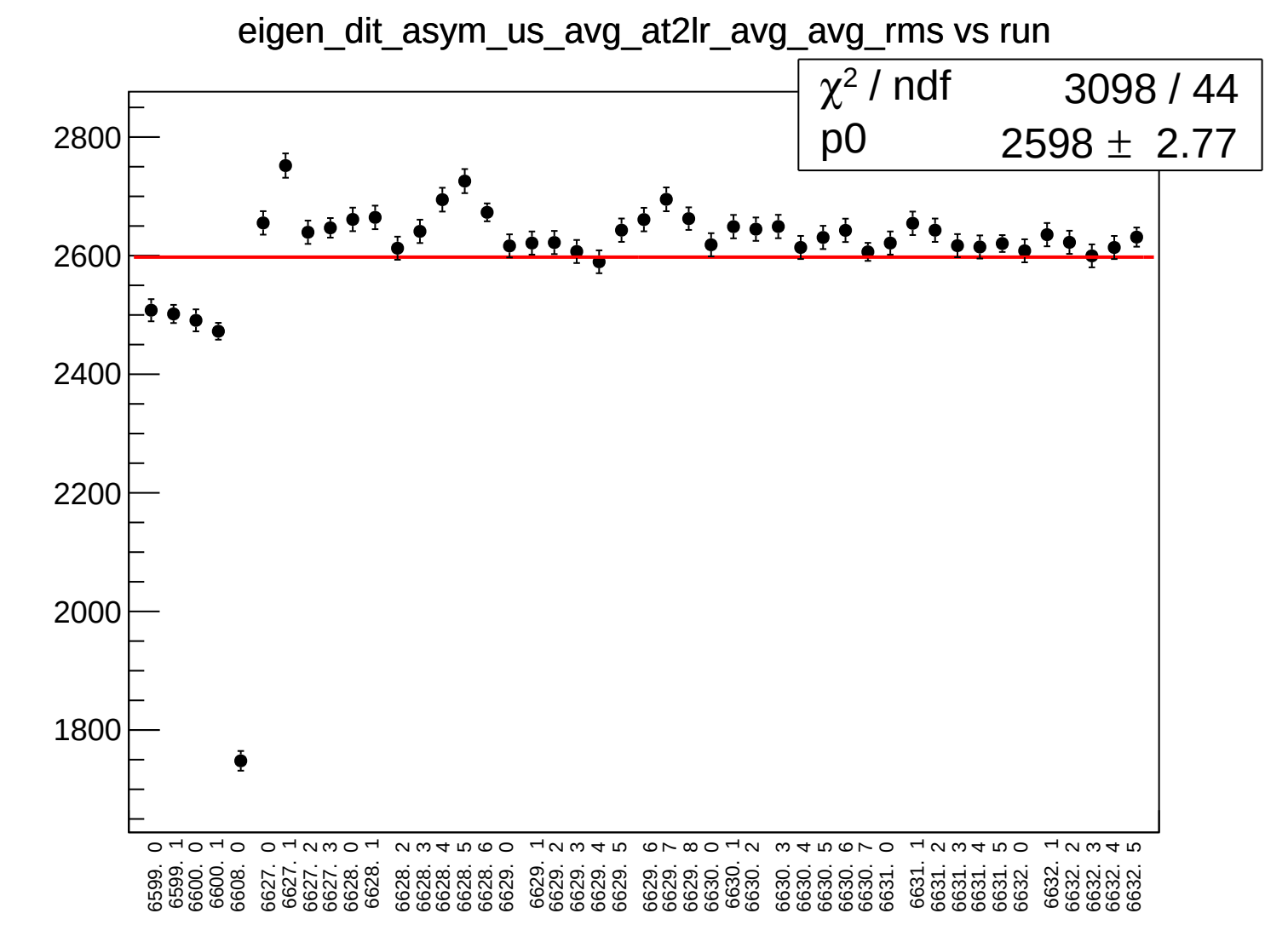

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 63.63 / 44
p0 1.672e+04 ± 1.516e+04
pull
Entries 45
Mean −66.12
Std Dev 0

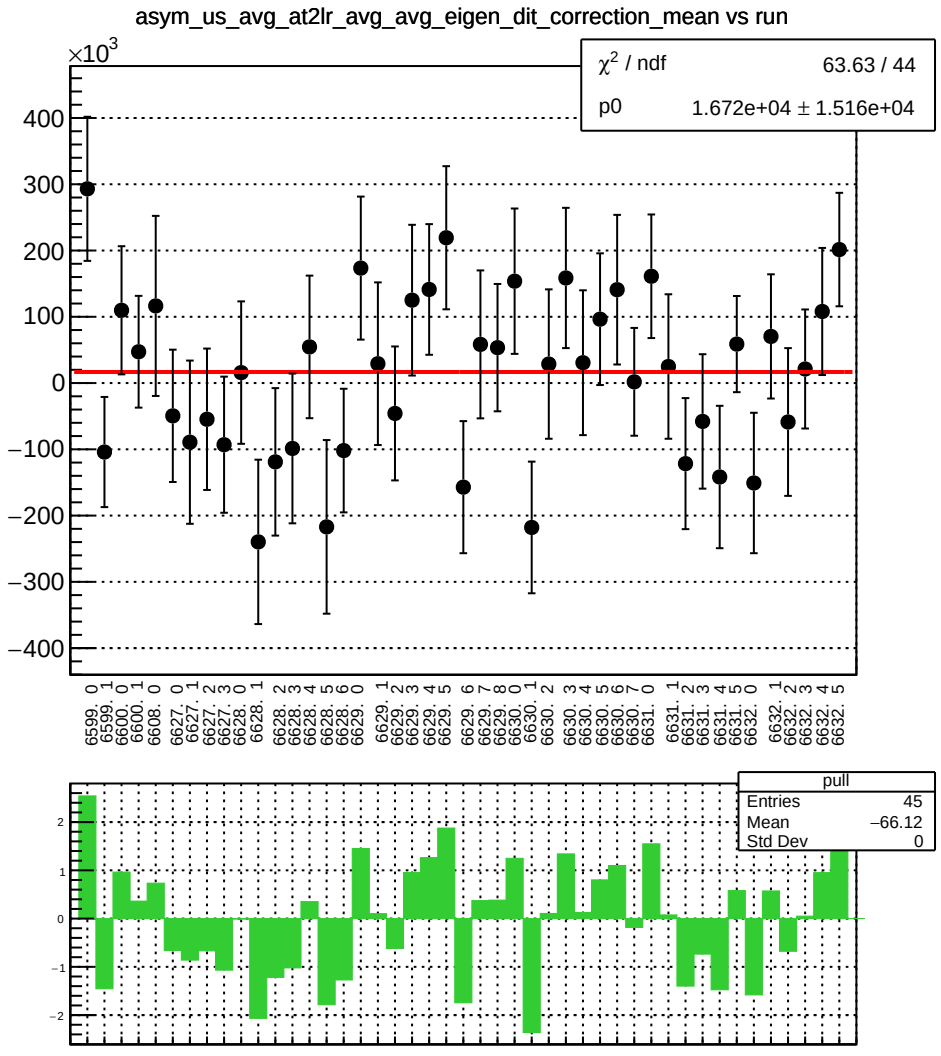

pull1D
Entries 45
Mean −0.01877
Std Dev 1.189

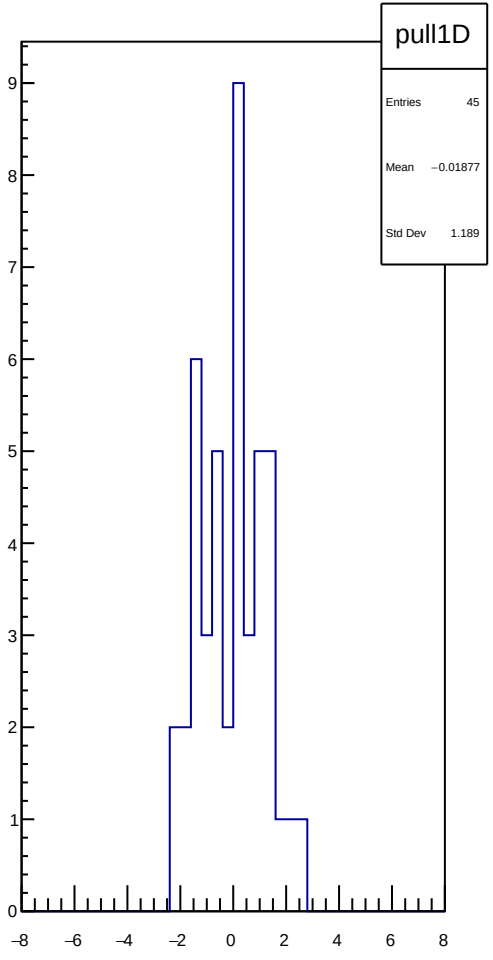

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 5790 / 44
p0 1.004e+04 ± 10.72
12500
12000
11500
11000
10500
10000
9500
9000
8500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

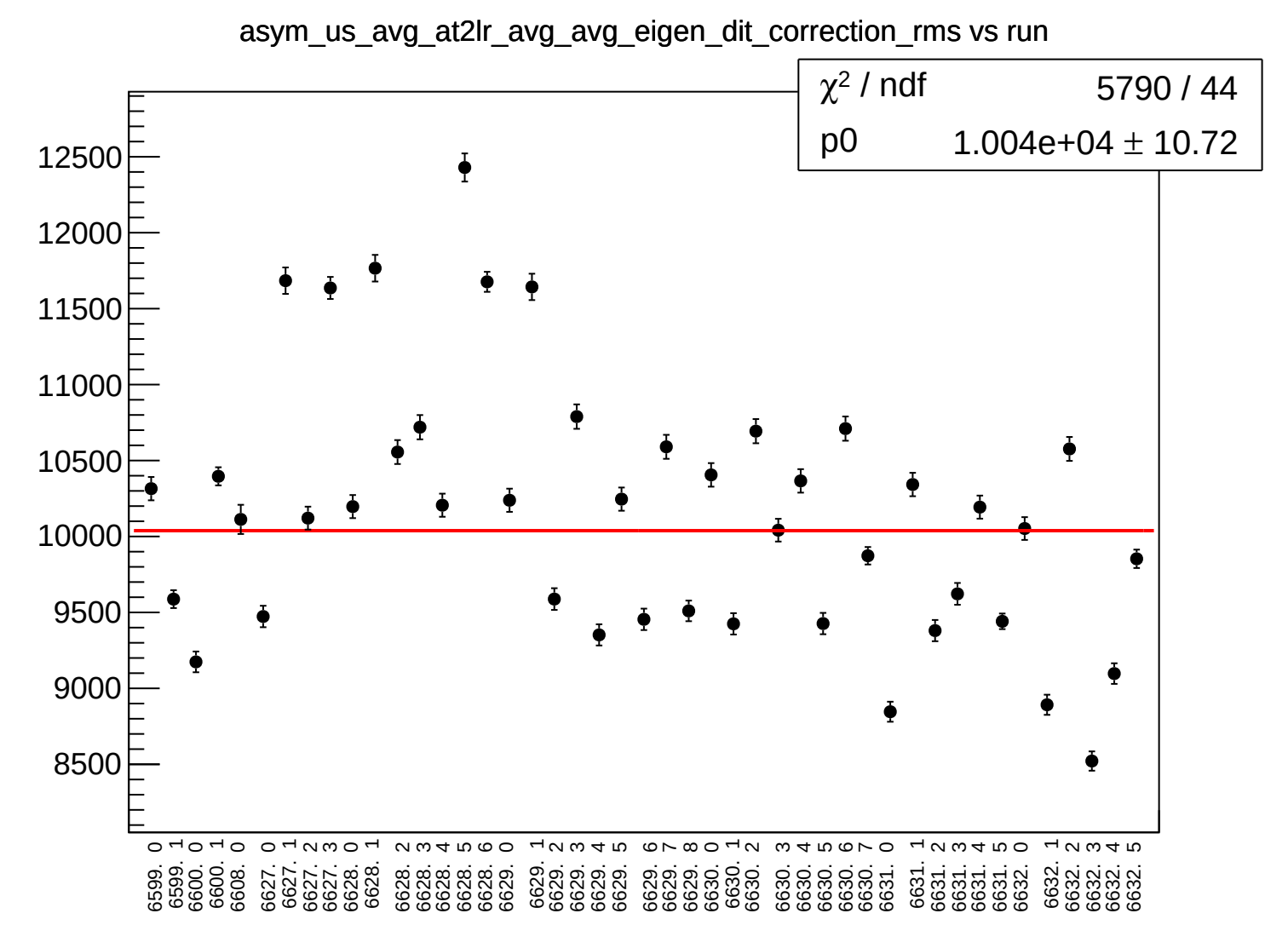

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 52.06 / 44
p0 1.151e+04 ± 3917
100
80
60
40
20
0
−20
−40
−60
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 161.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

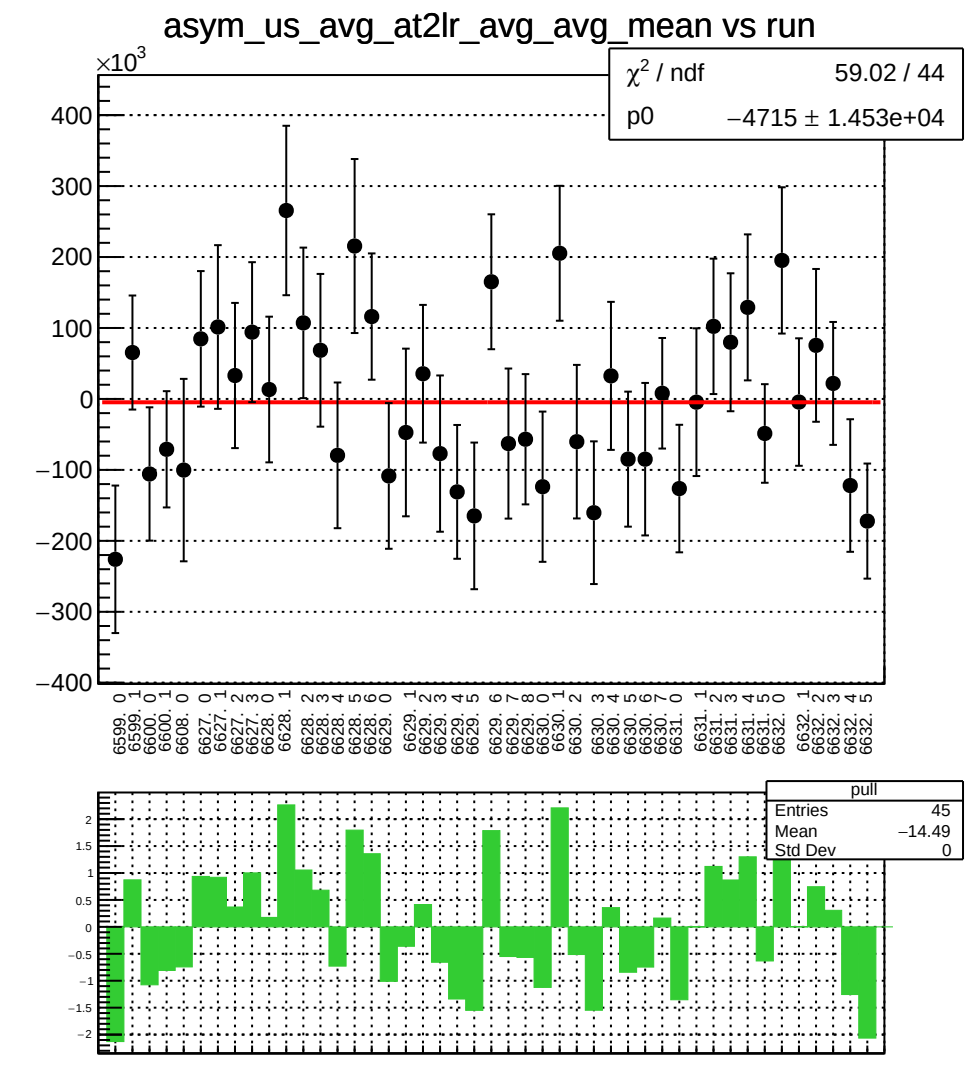

pull1D
Entries 45
Mean 0.02325
Std Dev 1.075
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

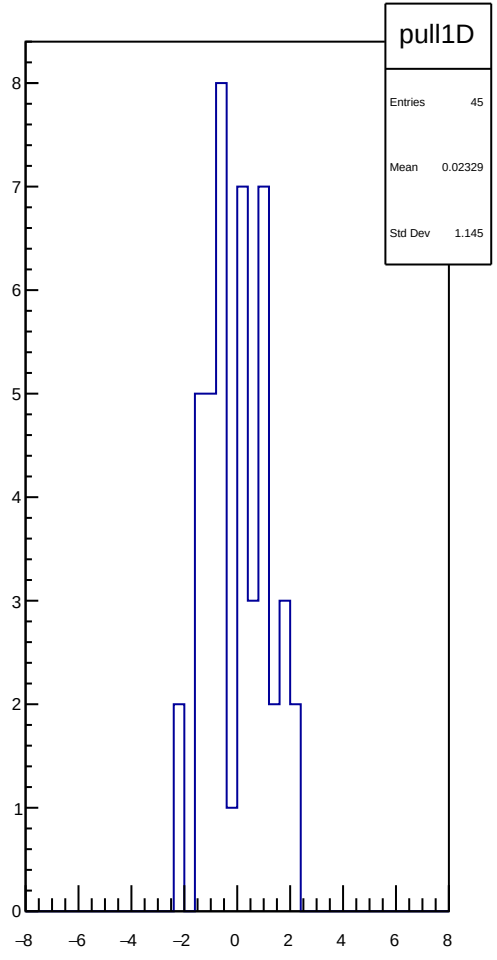

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 3098 / 44
p0 2598 ± 2.77
2800
2600
2400
2200
2000
1800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

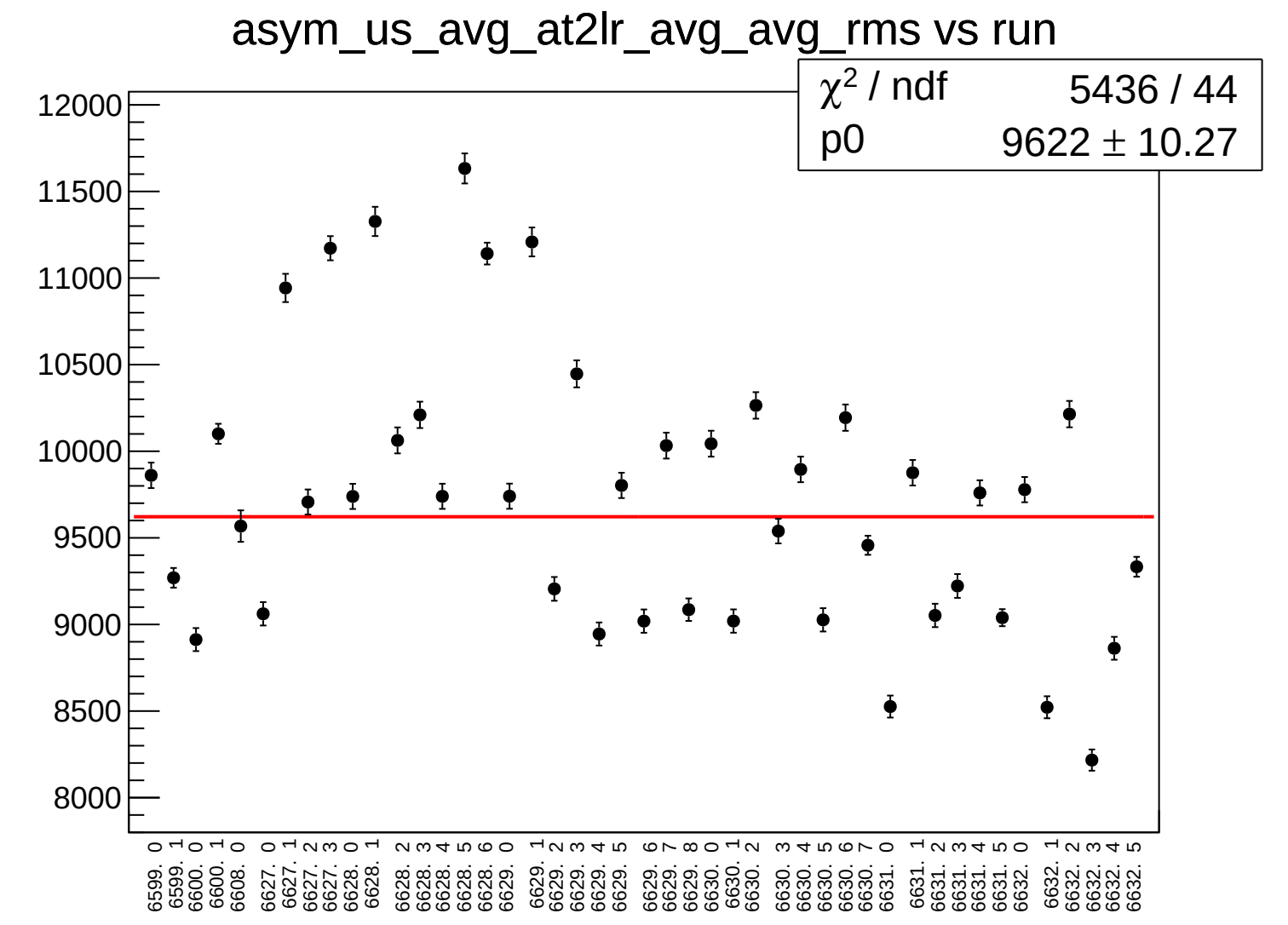

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 63.63 / 44
p0 1.672e+04 ± 1.516e+04
400
300
200
100
0
−100
−200
−300
−400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −66.12
Std Dev 0
2
1
0
−1
−2

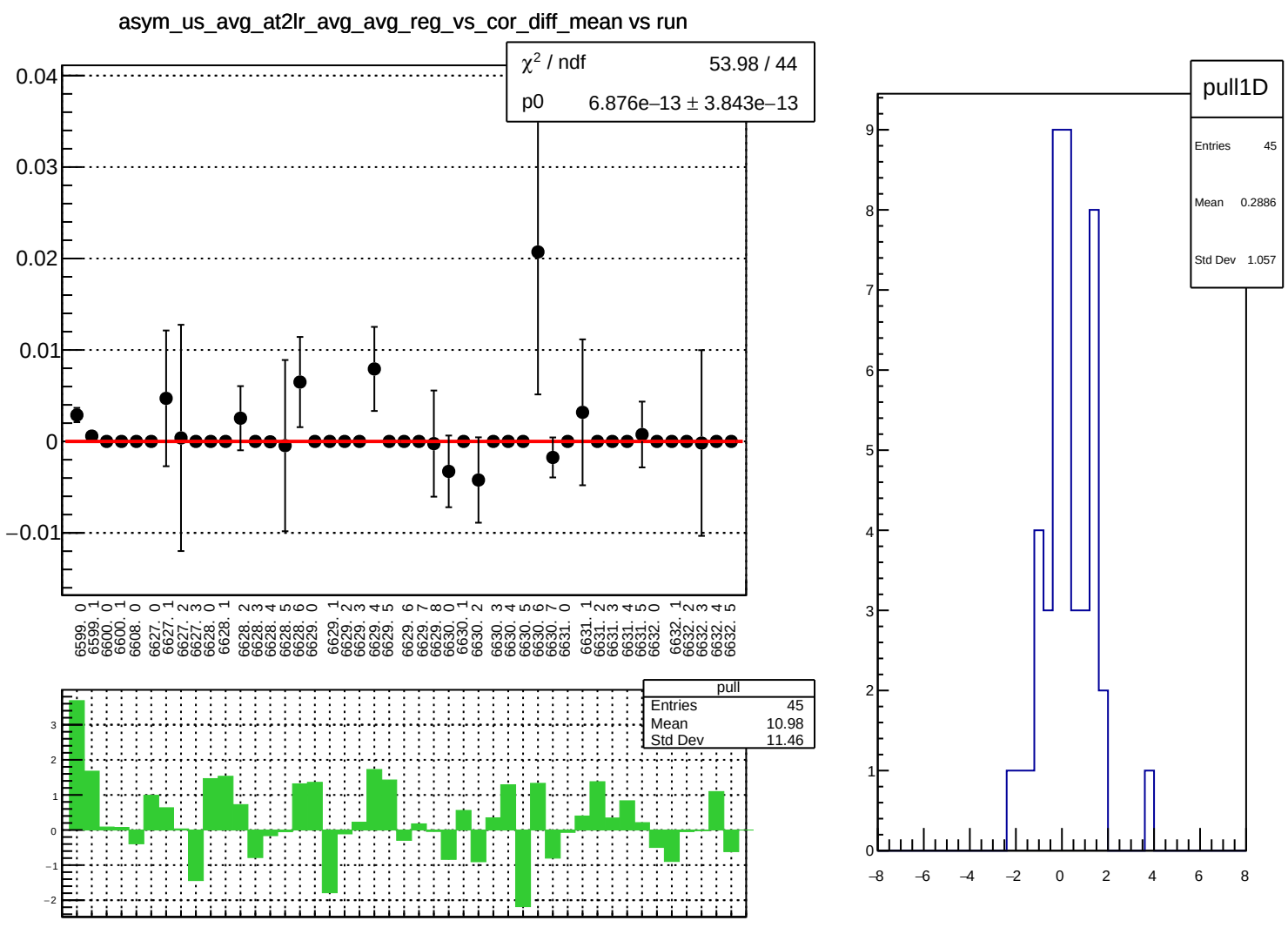

pull1D
Entries 45
Mean −0.01877
Std Dev 1.189
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

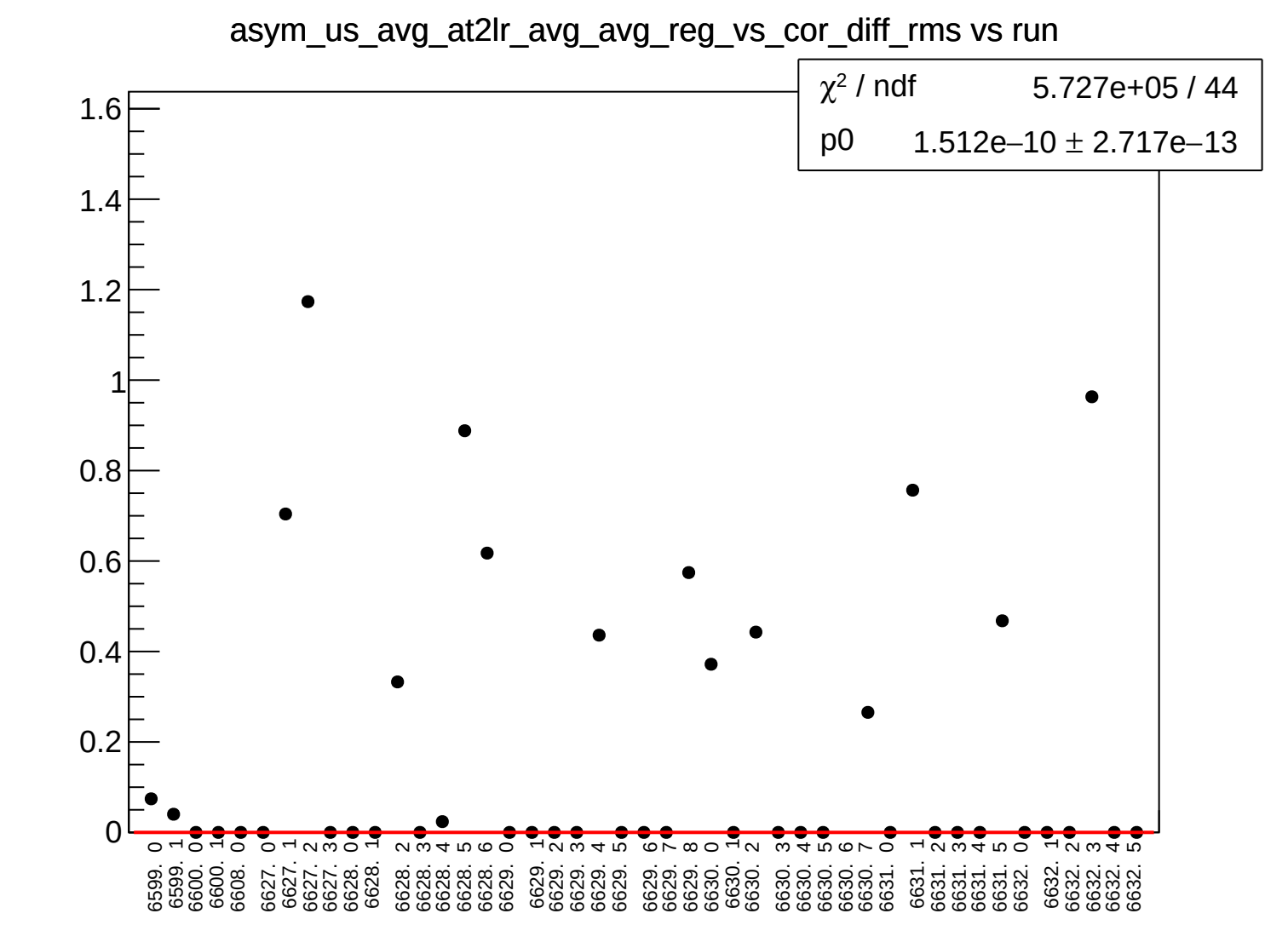

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 5790 / 44
p0 1.004e+04 ± 10.72
12500
12000
11500
11000
10500
10000
9500
9000
8500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

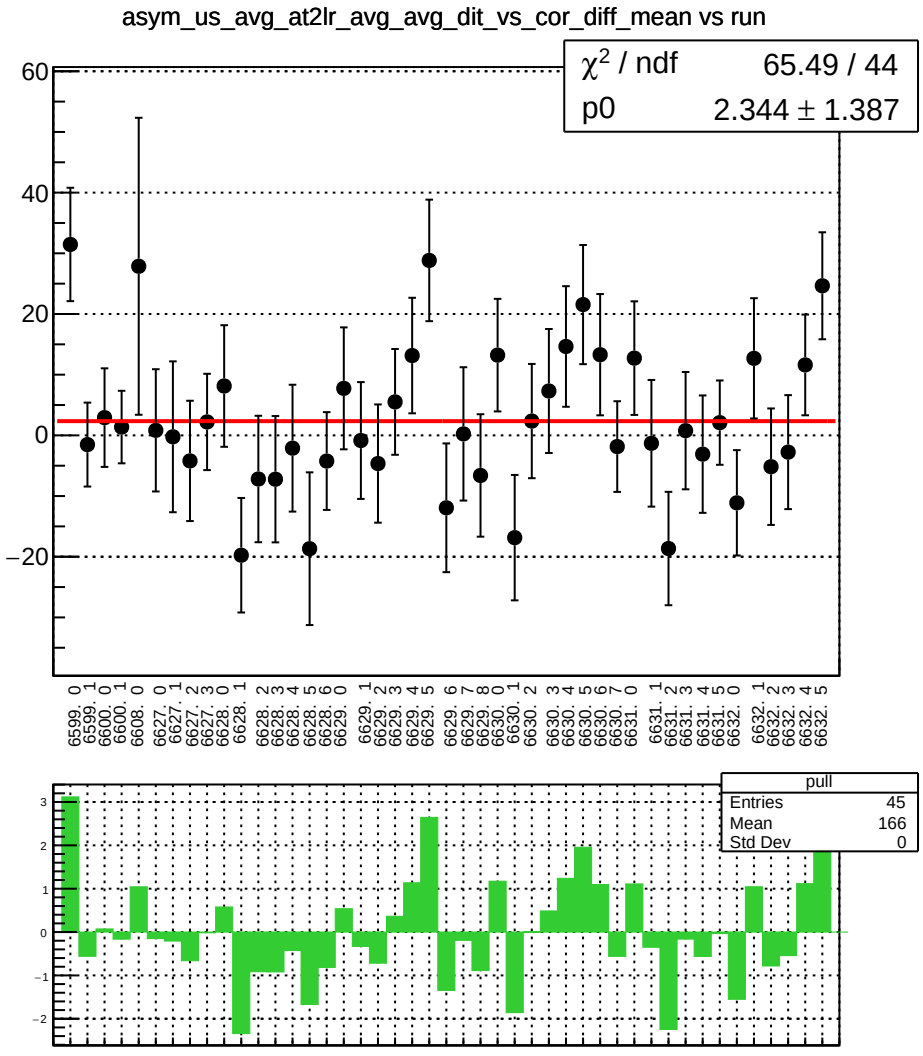

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 59.02 / 44
p0 −4715 ± 1.453e+04
pull
Entries 45
Mean −14.49
Std Dev 0

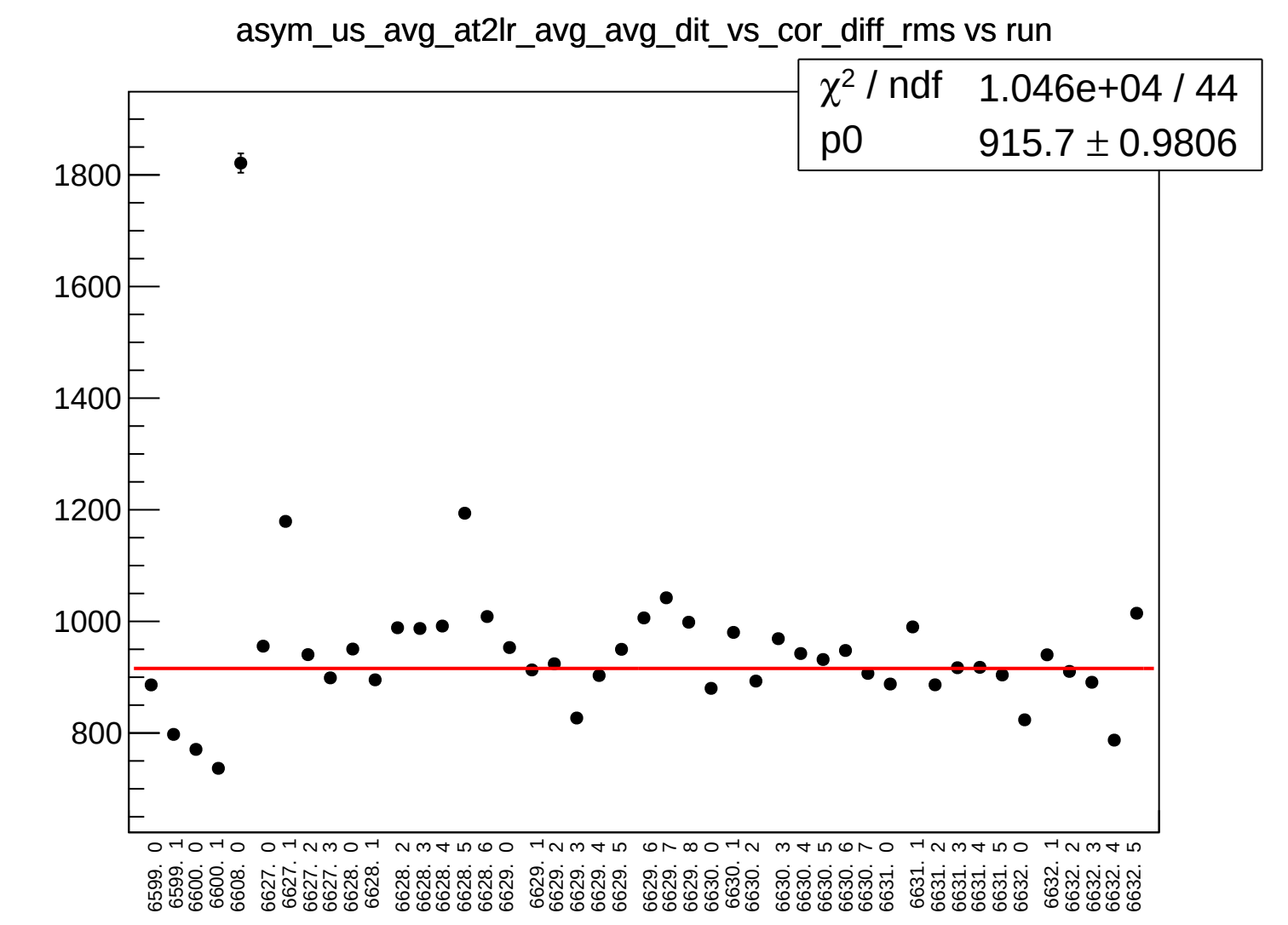

pull1D
Entries 45
Mean 0.02329
Std Dev 1.145

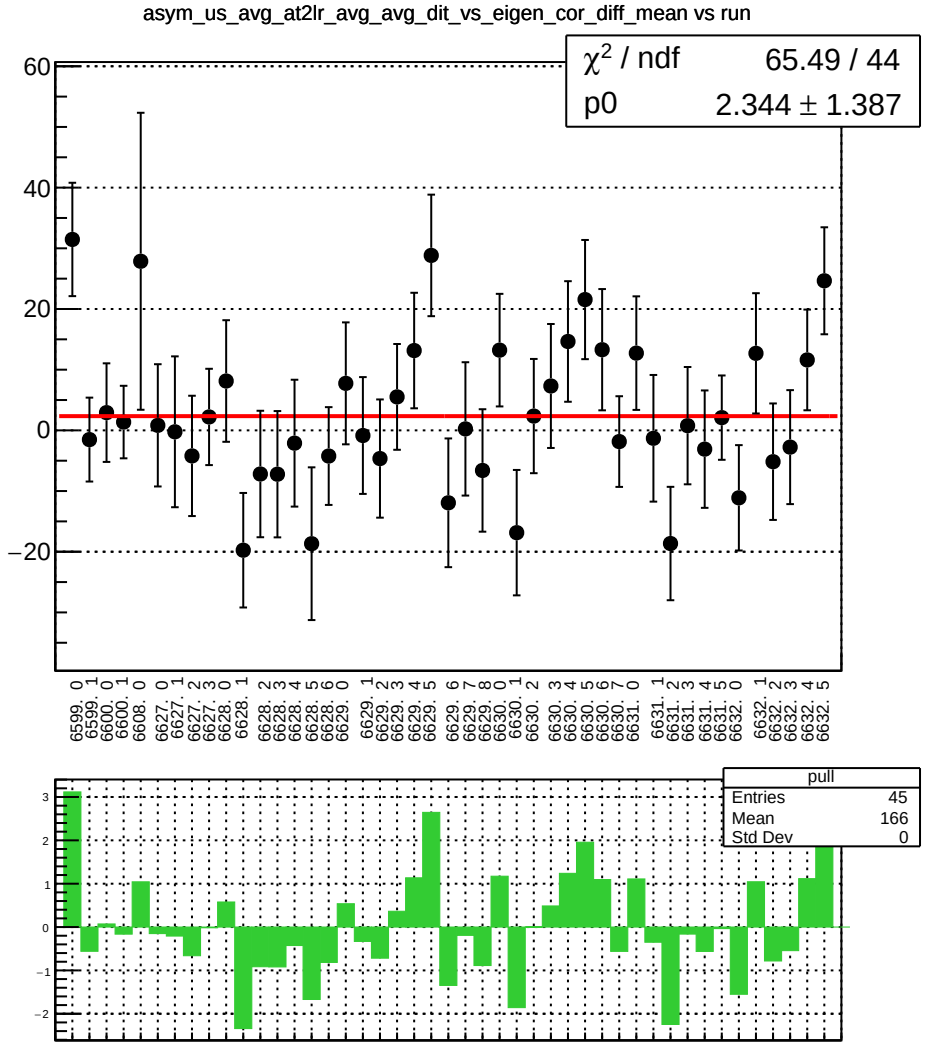

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 5436 / 44
p0 9622 ± 10.27
12000
11500
11000
10500
10000
9500
9000
8500
8000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

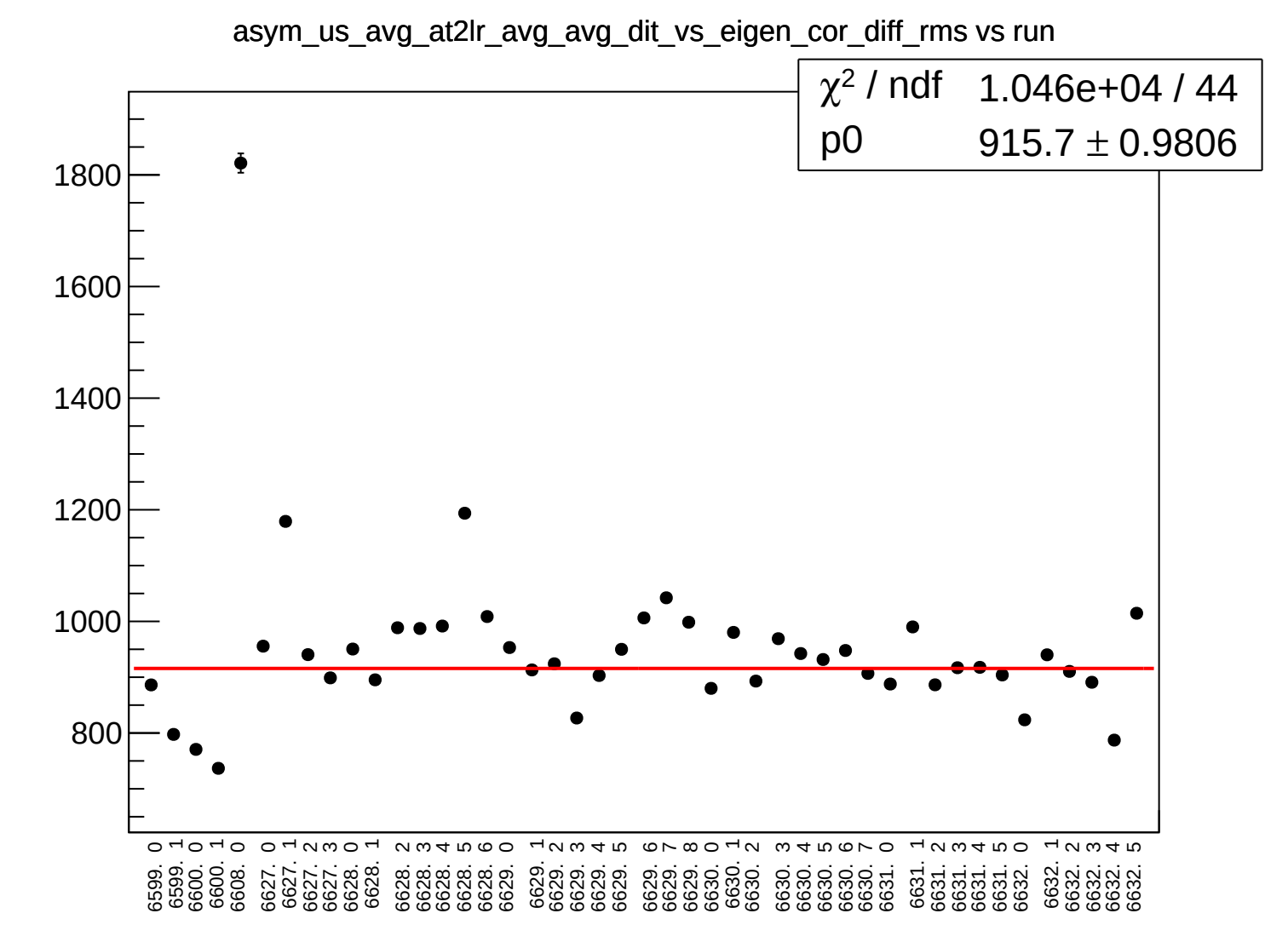

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 53.98 / 44
p0 6.876e−13 ± 3.843e−13
0.04
0.03
0.02
0.01
0
−0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 10.98
Std Dev 11.46
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.2886
Std Dev 1.057
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

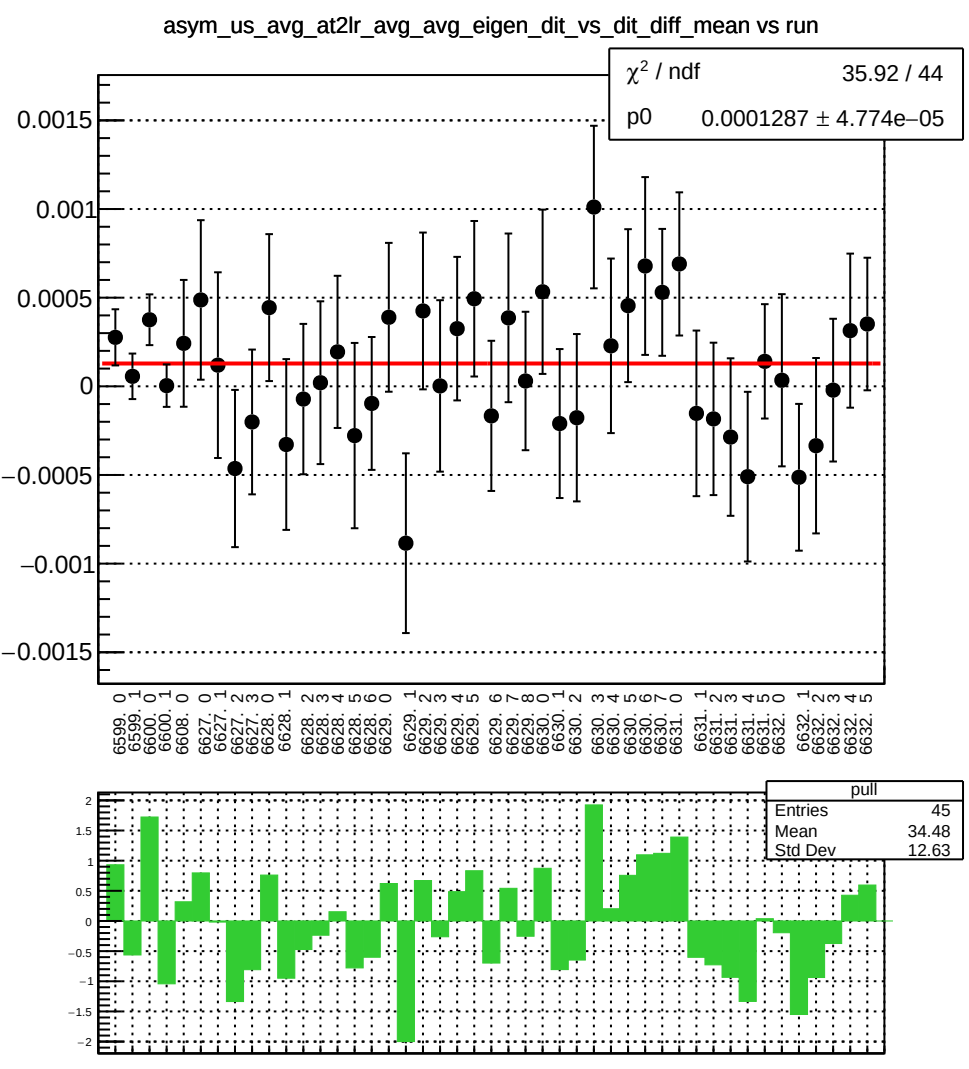

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.727e+05 / 44
p0 1.512e−10 ± 2.717e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

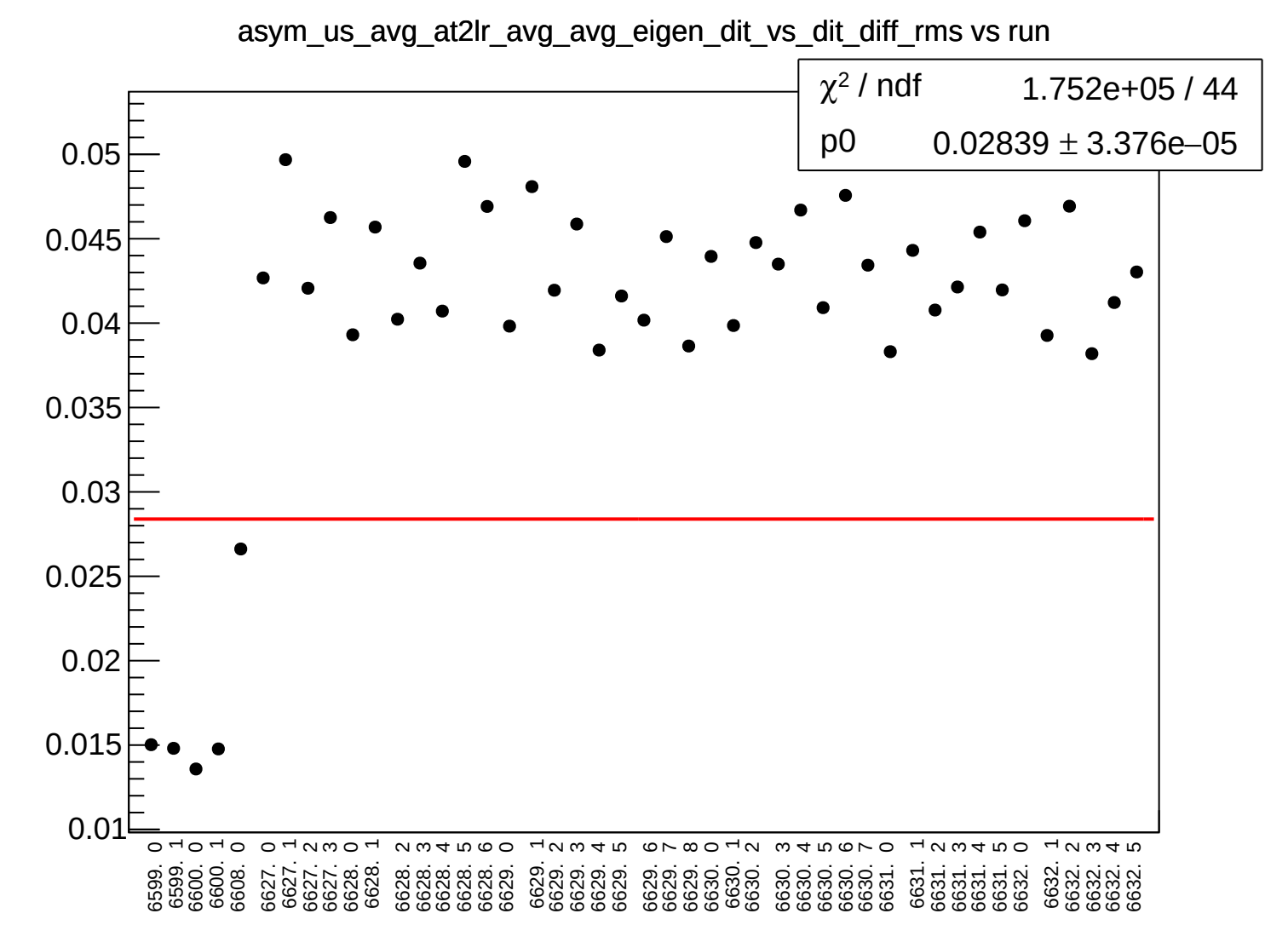

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 65.49 / 44
p0 2.344 ± 1.387
pull
Entries 45
Mean 166
Std Dev 0
pull1D
Entries 45
Mean 0.006056
Std Dev 1.206

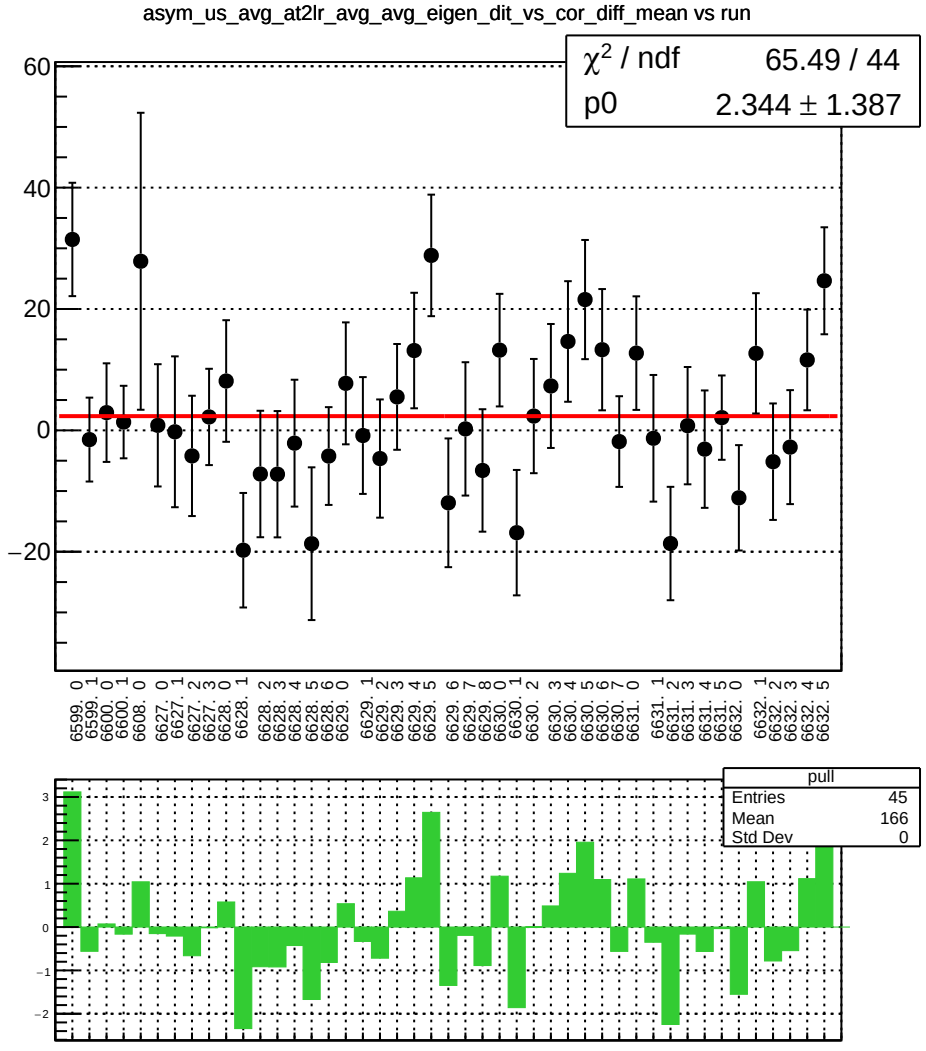

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.046e+04 / 44
p0 915.7 ± 0.9806
1800
1600
1400
1200
1000
800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

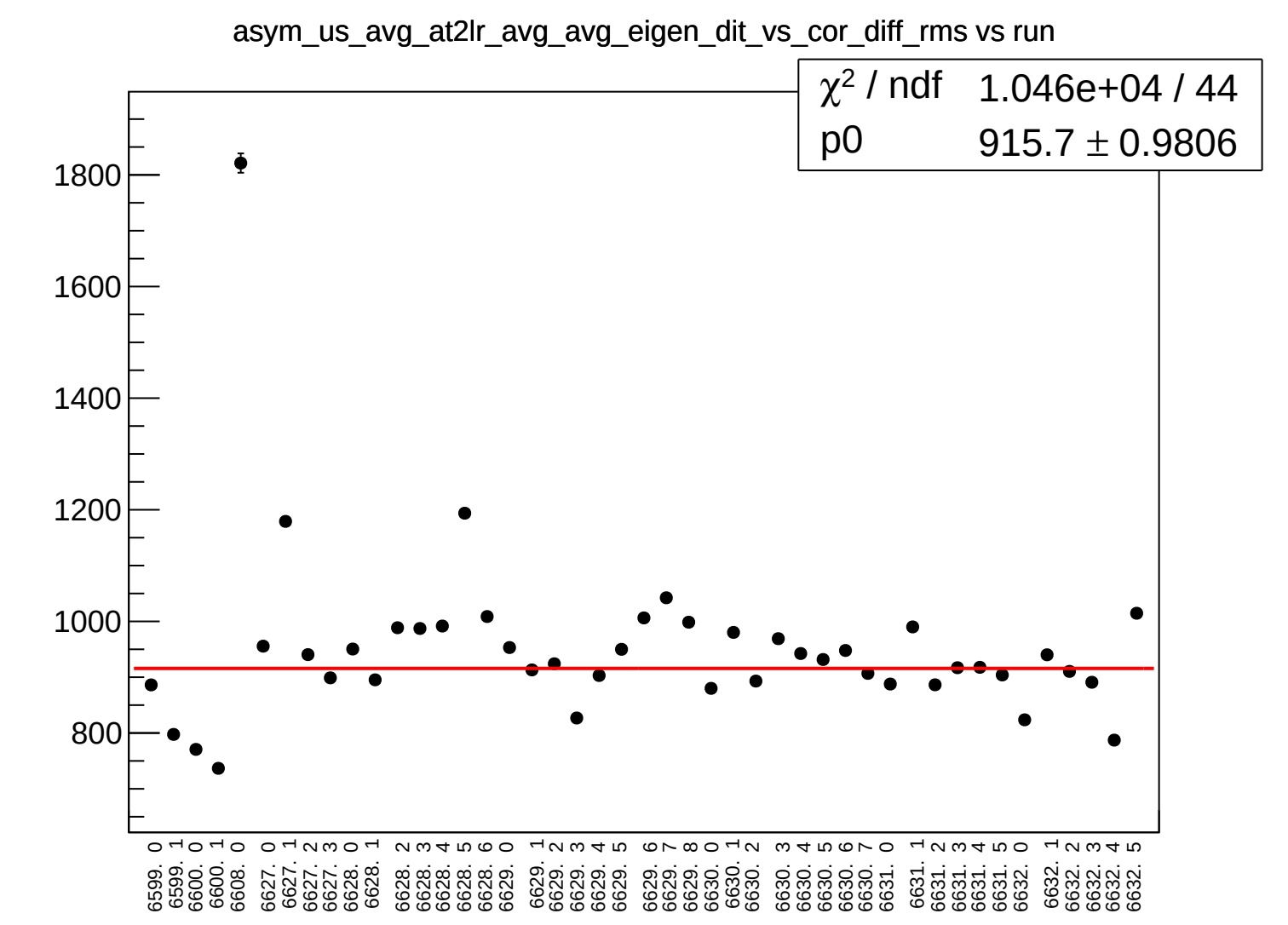

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.49 / 44
p0 2.344 ± 1.387
pull
Entries 45
Mean 166
Std Dev 0
pull1D
Entries 45
Mean 0.006056
Std Dev 1.206

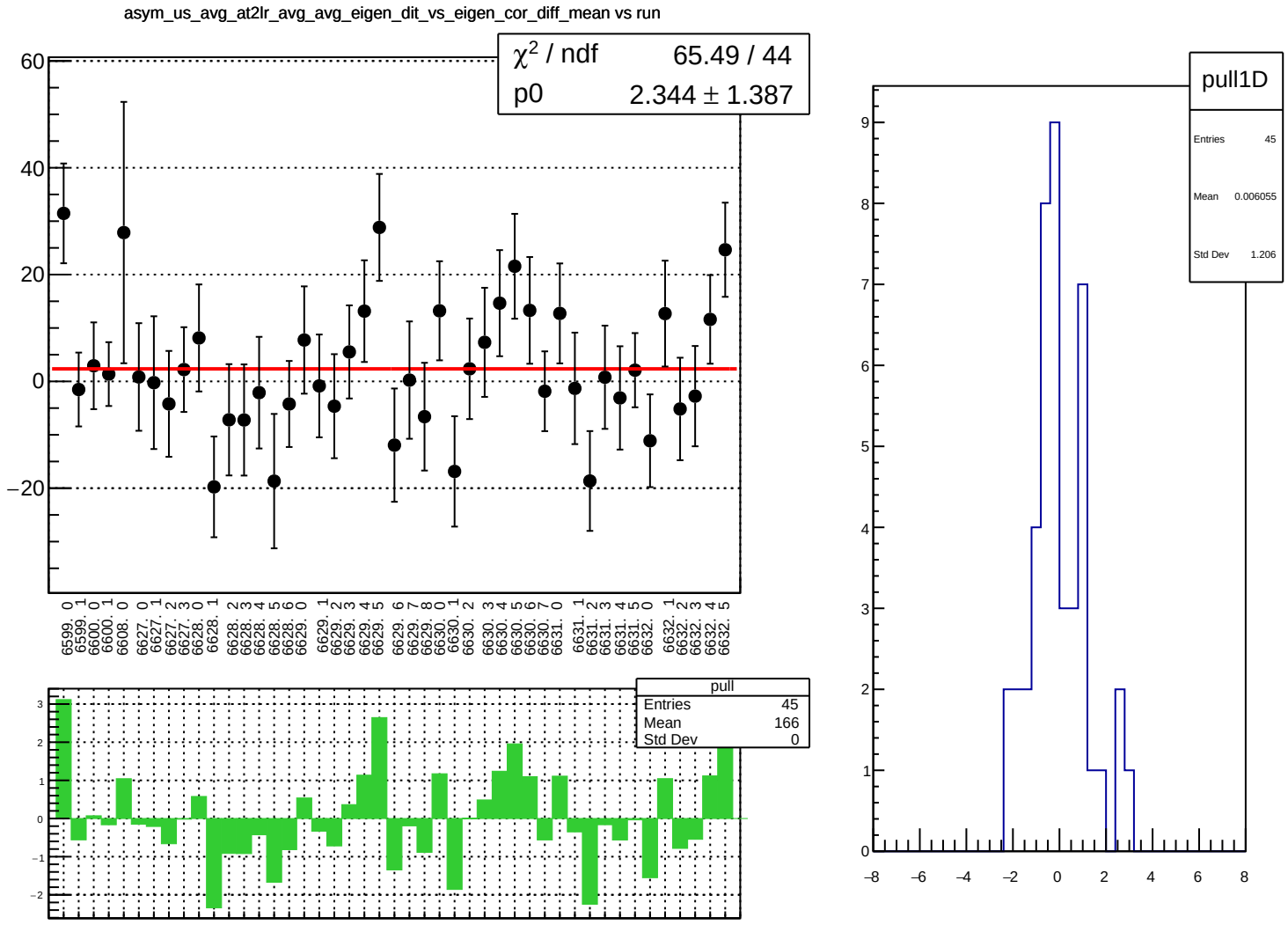

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.046e+04 / 44
p0 915.7 ± 0.9806
1800
1600
1400
1200
1000
800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

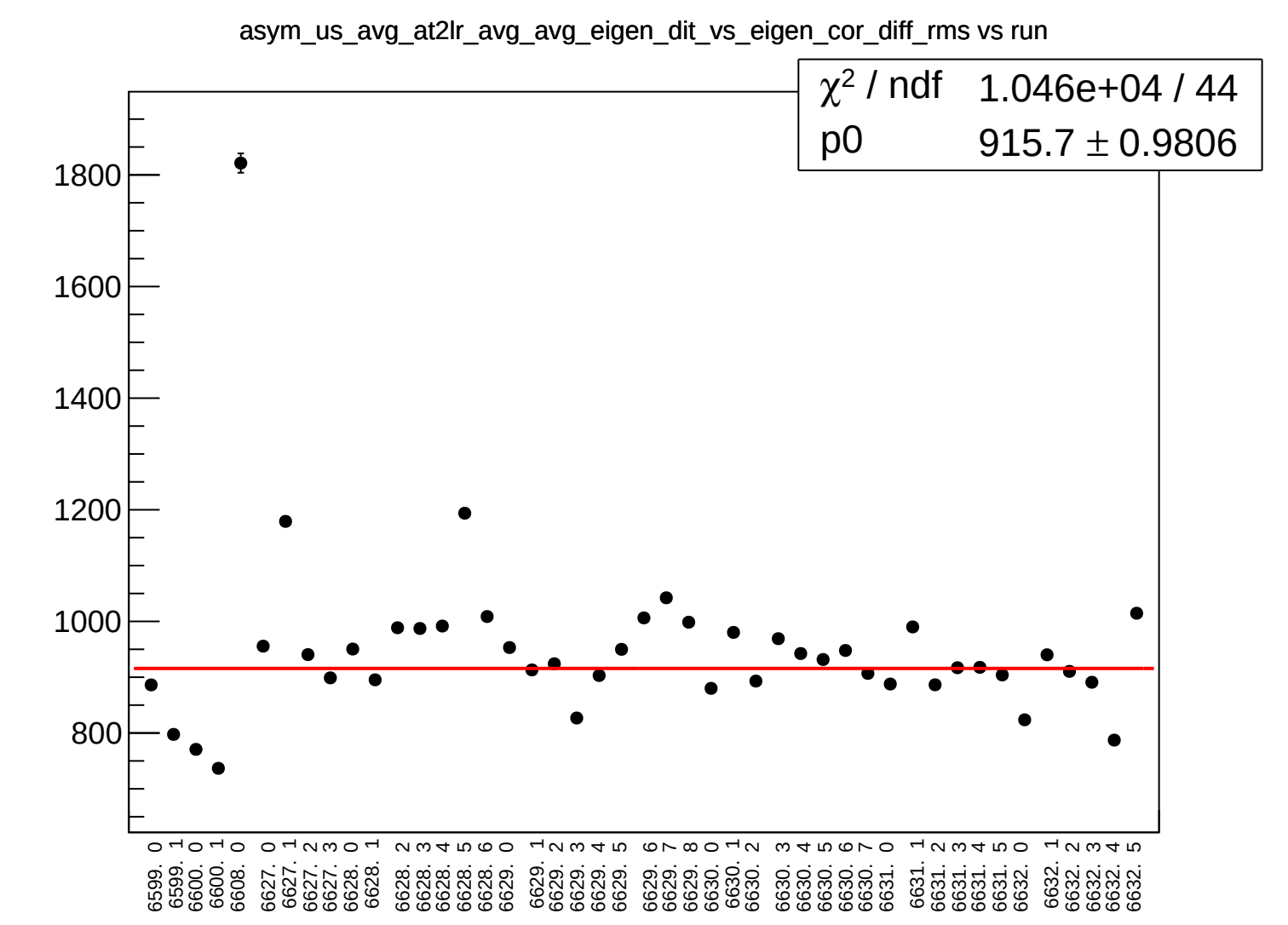

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 35.92 / 44
p0 0.0001287 ± 4.774e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 34.48
Std Dev 12.63
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.04136
Std Dev 0.8925
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

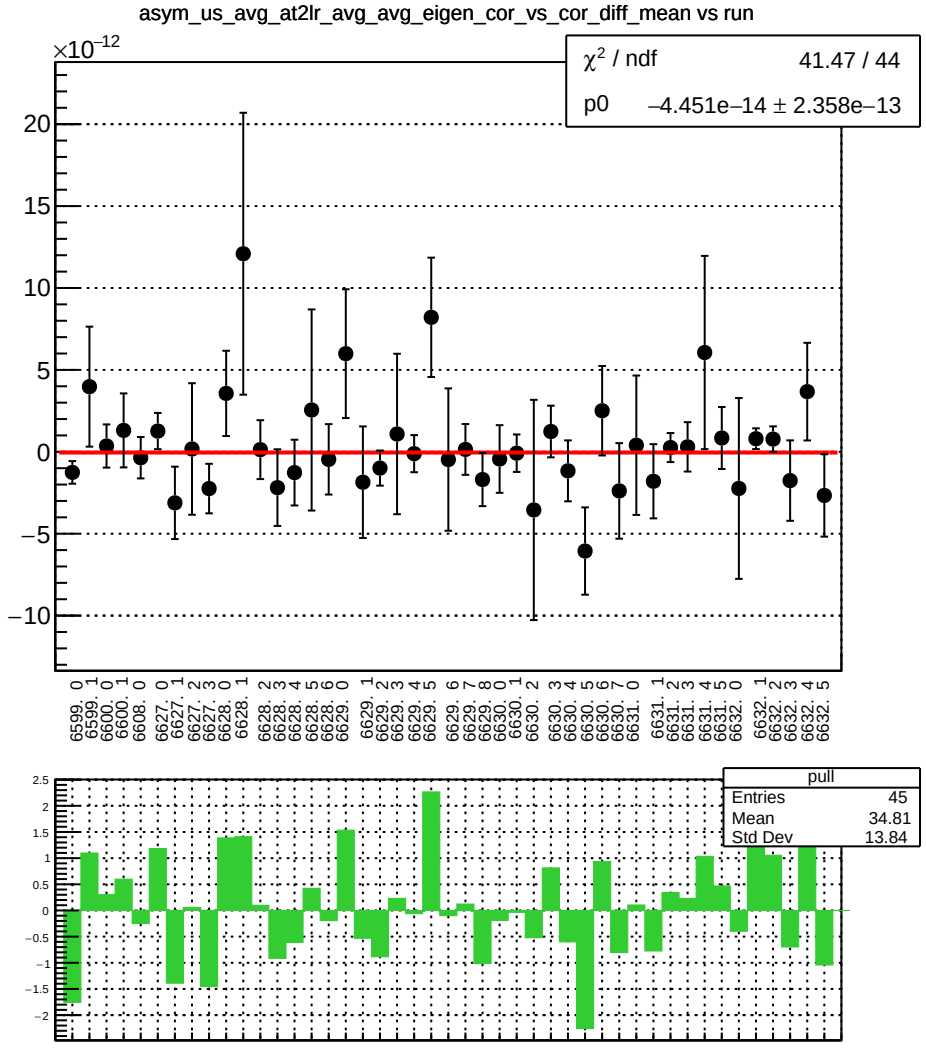

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.752e+05 / 44
p0 0.02839 ± 3.376e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

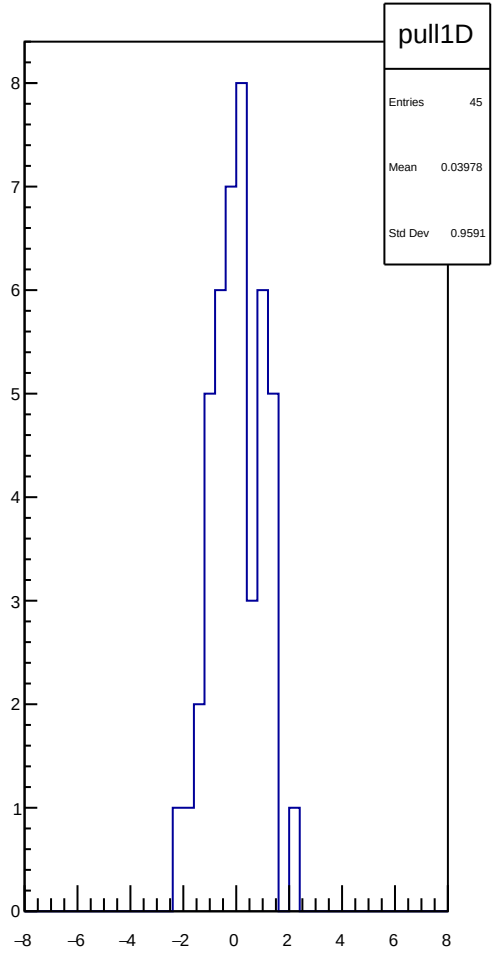

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65.49 / 44
p0 2.344 ± 1.387
60
40
20
0
−20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 166
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.006055
Std Dev 1.206
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

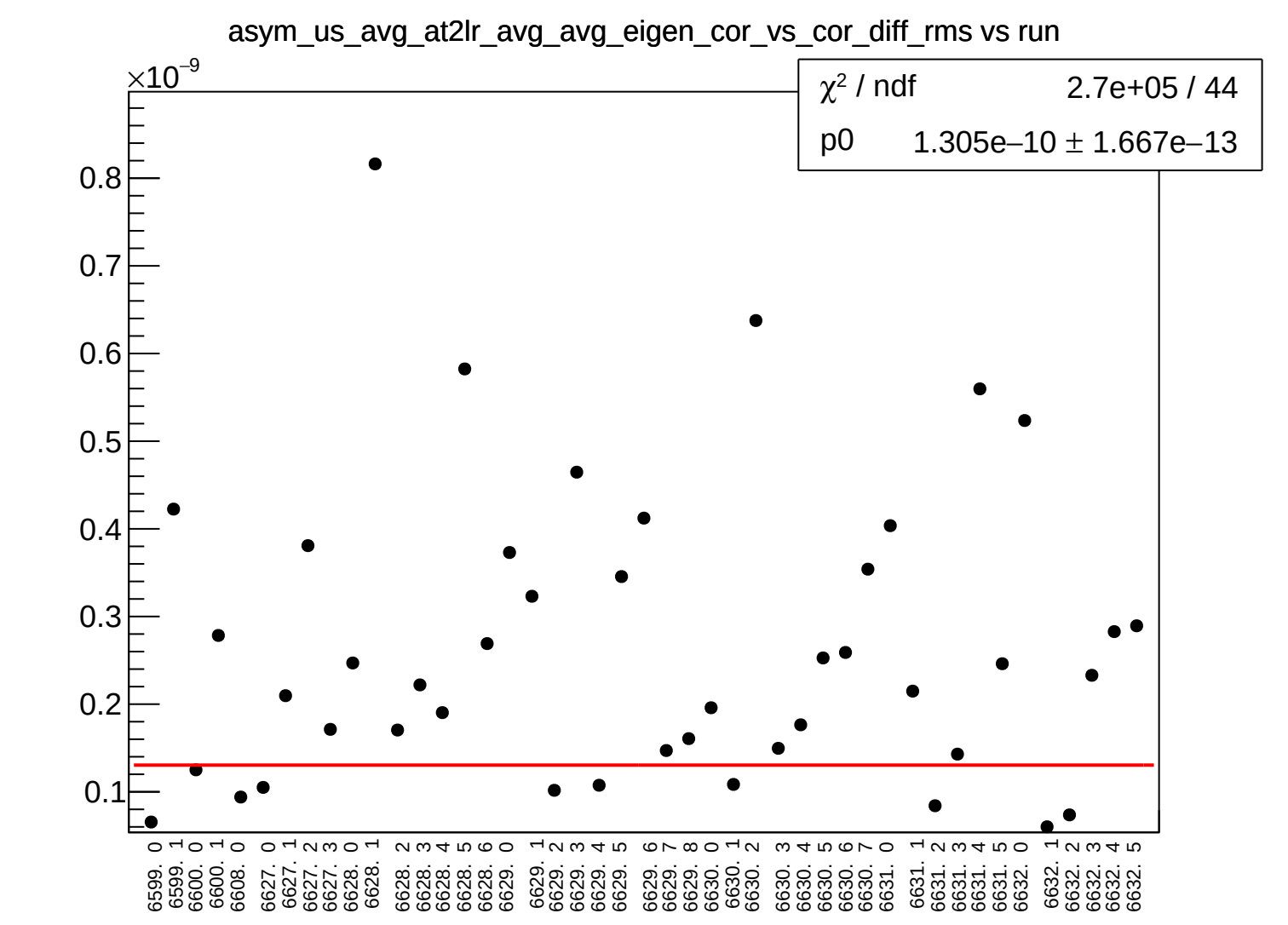

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.046e+04 / 44
p0 915.7 ± 0.9806
1800
1600
1400
1200
1000
800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

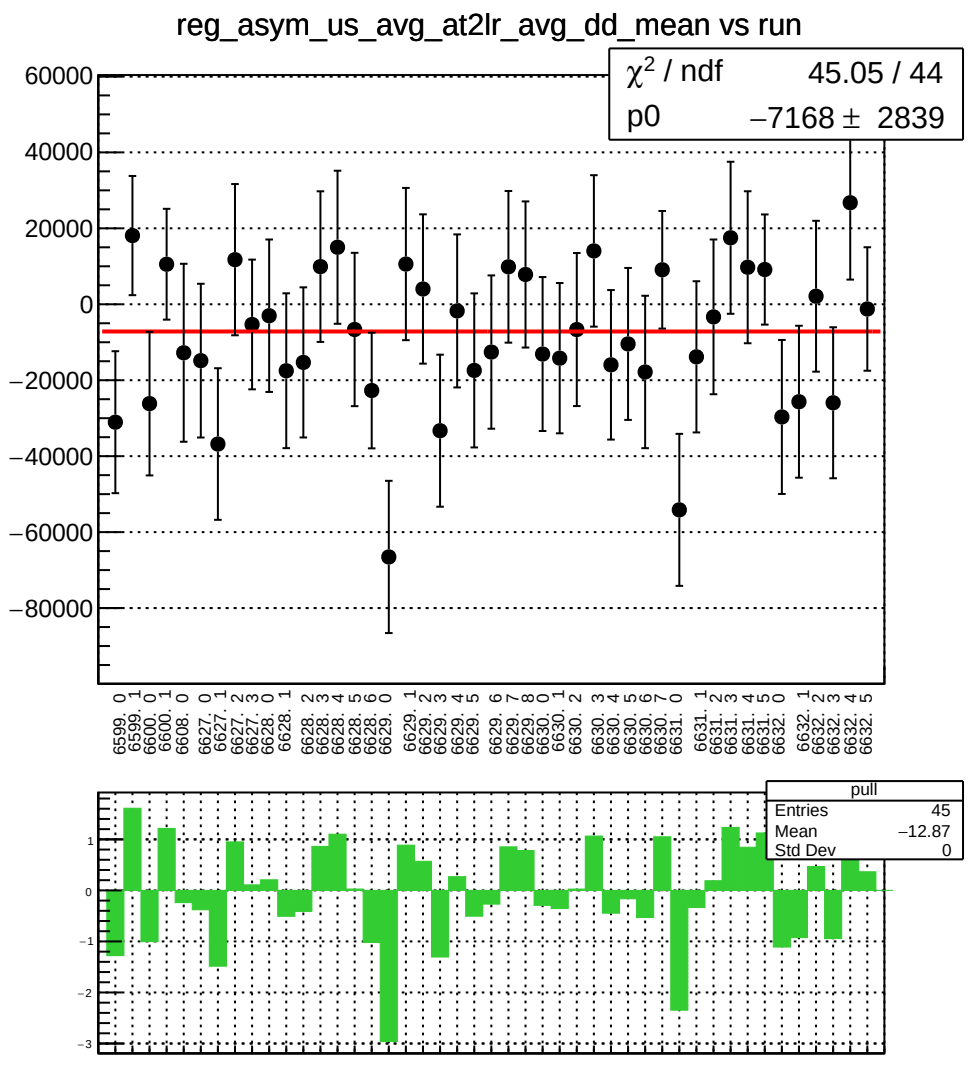

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.49 / 44
p0 2.344 ± 1.387
pull
Entries 45
Mean 166
Std Dev 0
pull1D
Entries 45
Mean 0.006055
Std Dev 1.206

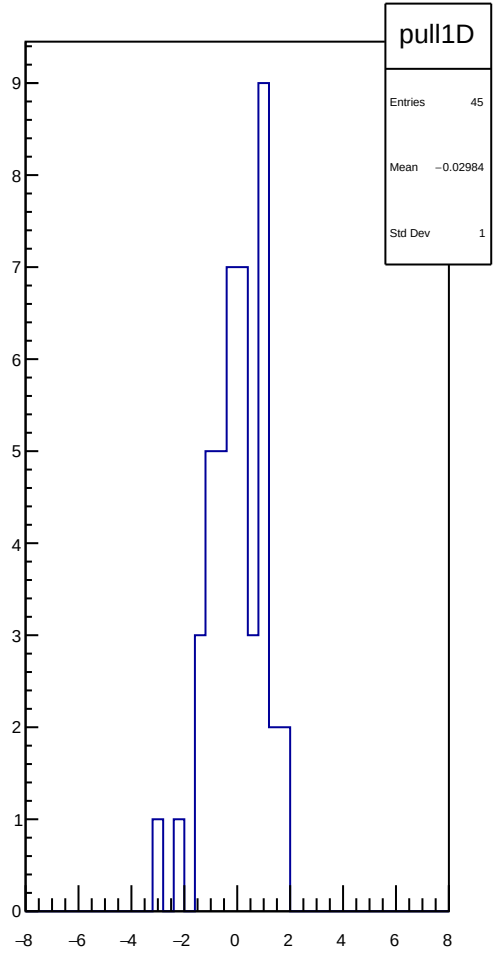

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.046e+04 / 44
p0 915.7 ± 0.9806
1800
1600
1400
1200
1000
800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

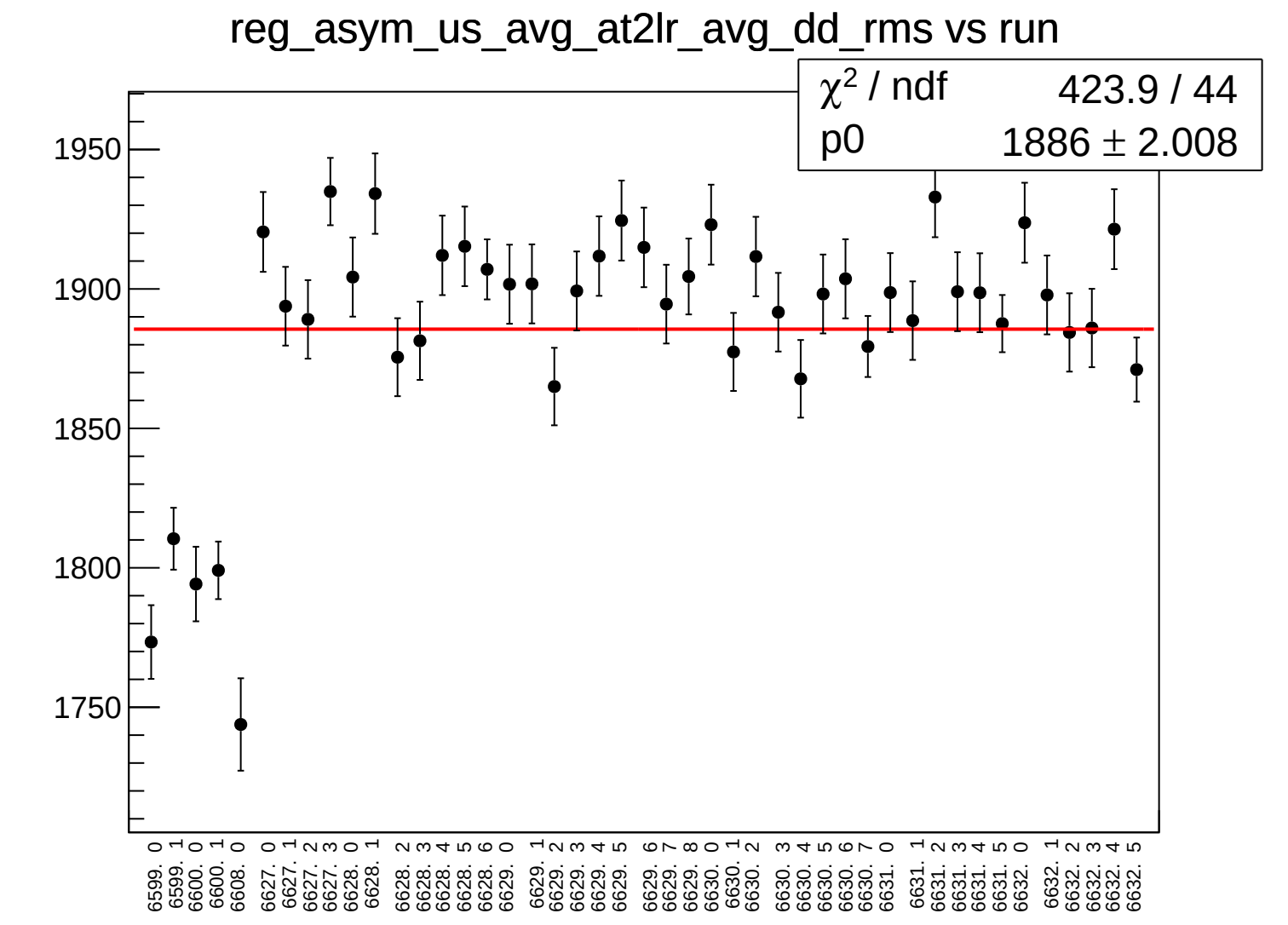

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 41.47 / 44
p0 −4.451e−14 ± 2.358e−13
pull
Entries 45
Mean 34.81
Std Dev 13.84

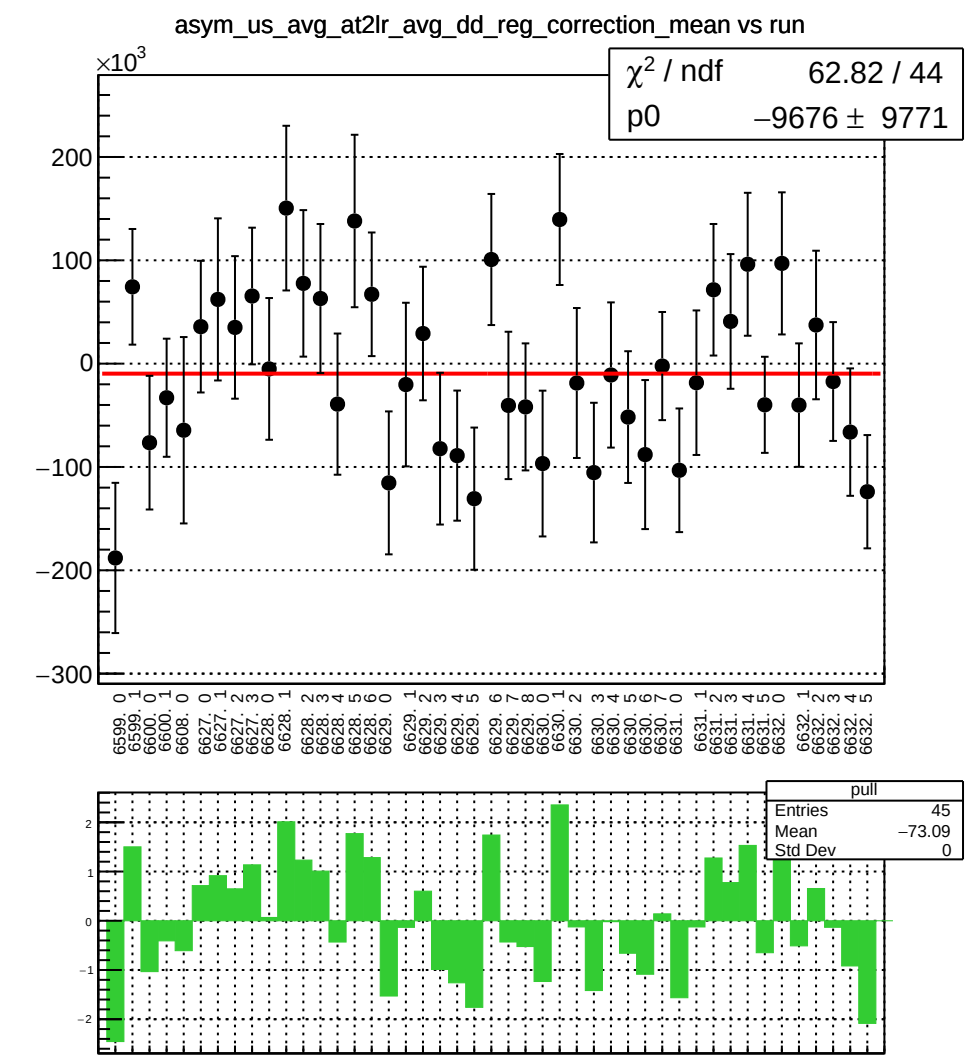

pull1D
Entries 45
Mean 0.03978
Std Dev 0.9591

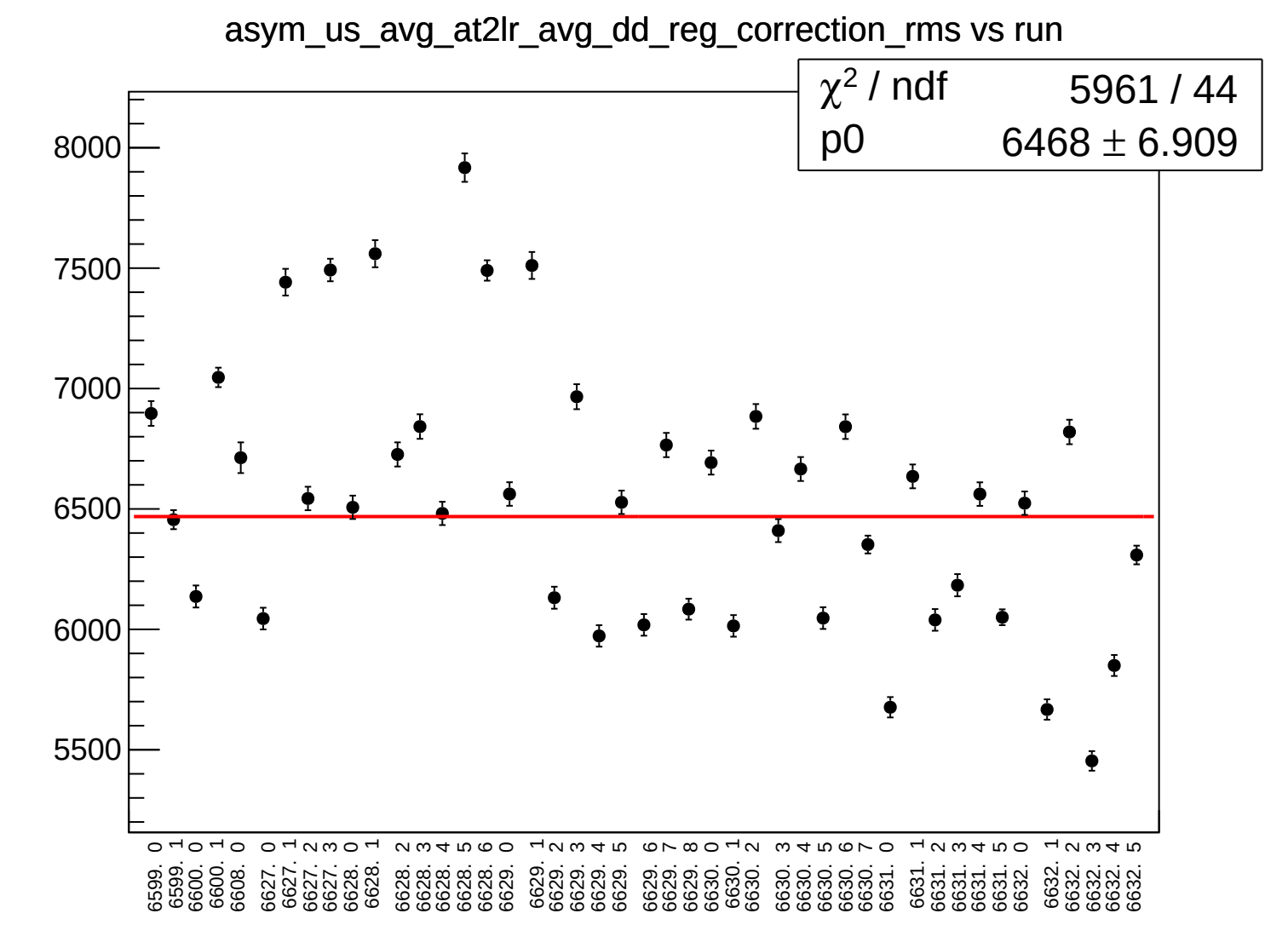

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.7e+05 / 44
p0 1.305e−10 ± 1.667e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

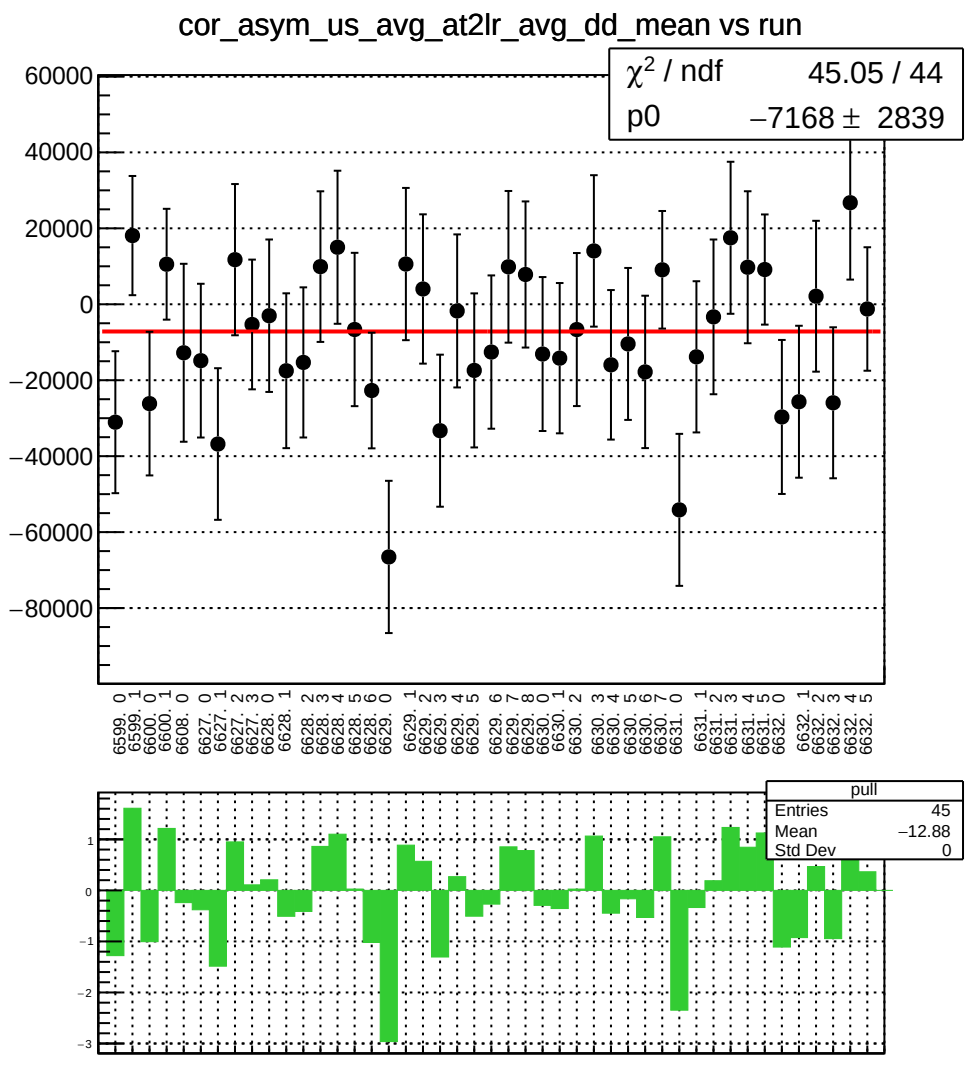

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 45.05 / 44
p0 −7168 ± 2839
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −12.87
Std Dev 0
1
0
−1
−2
−3

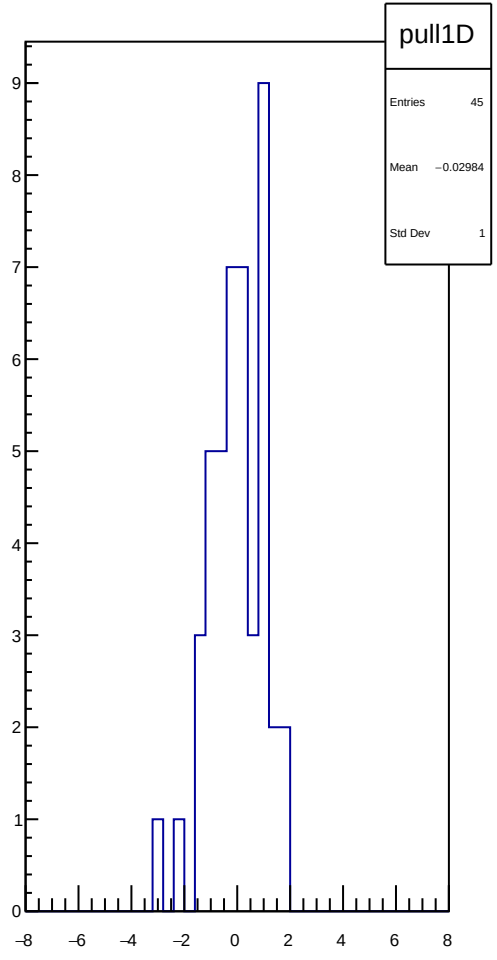

pull1D
Entries 45
Mean −0.02984
Std Dev 1
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

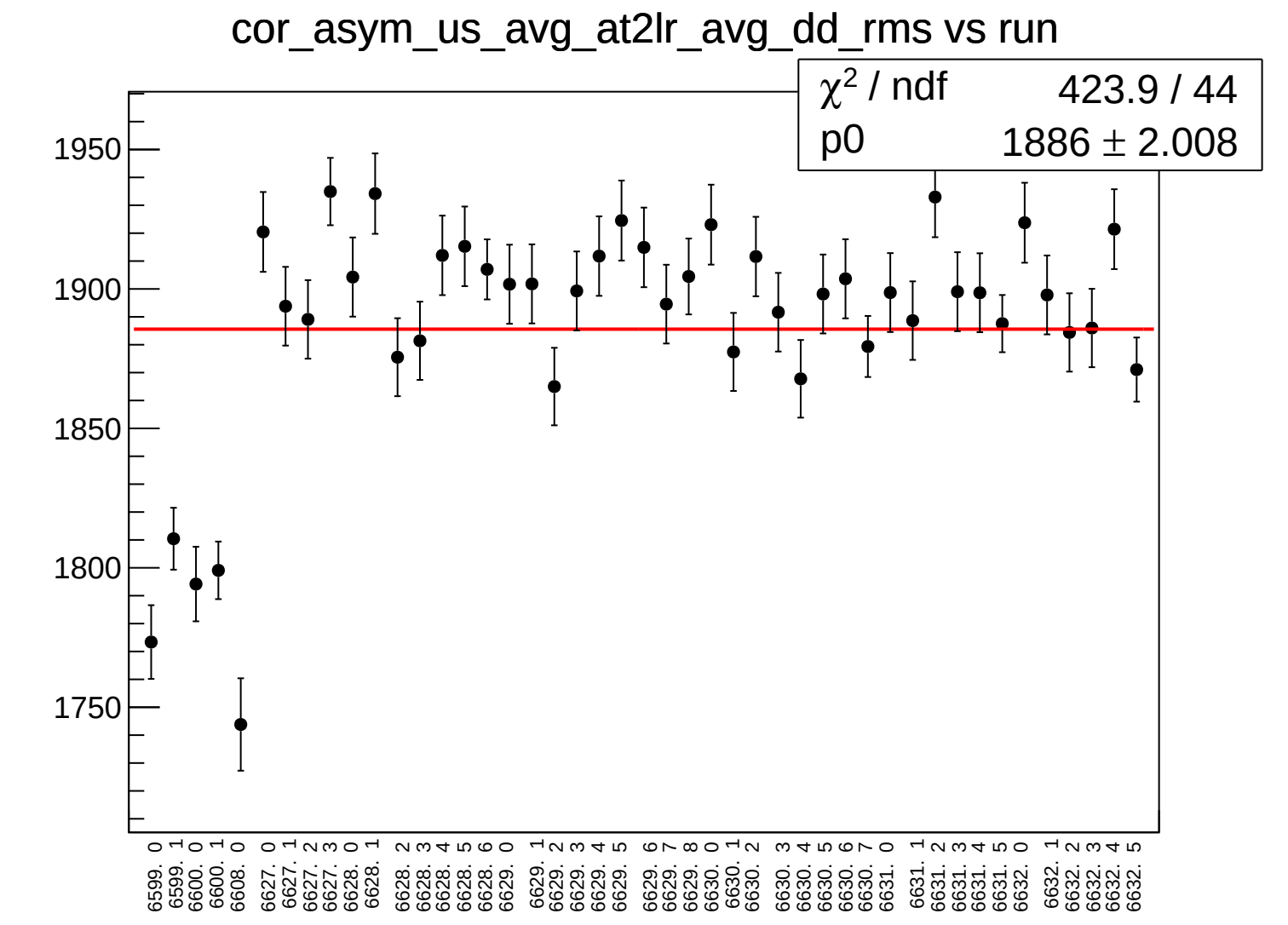

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 423.9 / 44
p0 1886 ± 2.008
1950
1900
1850
1800
1750
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

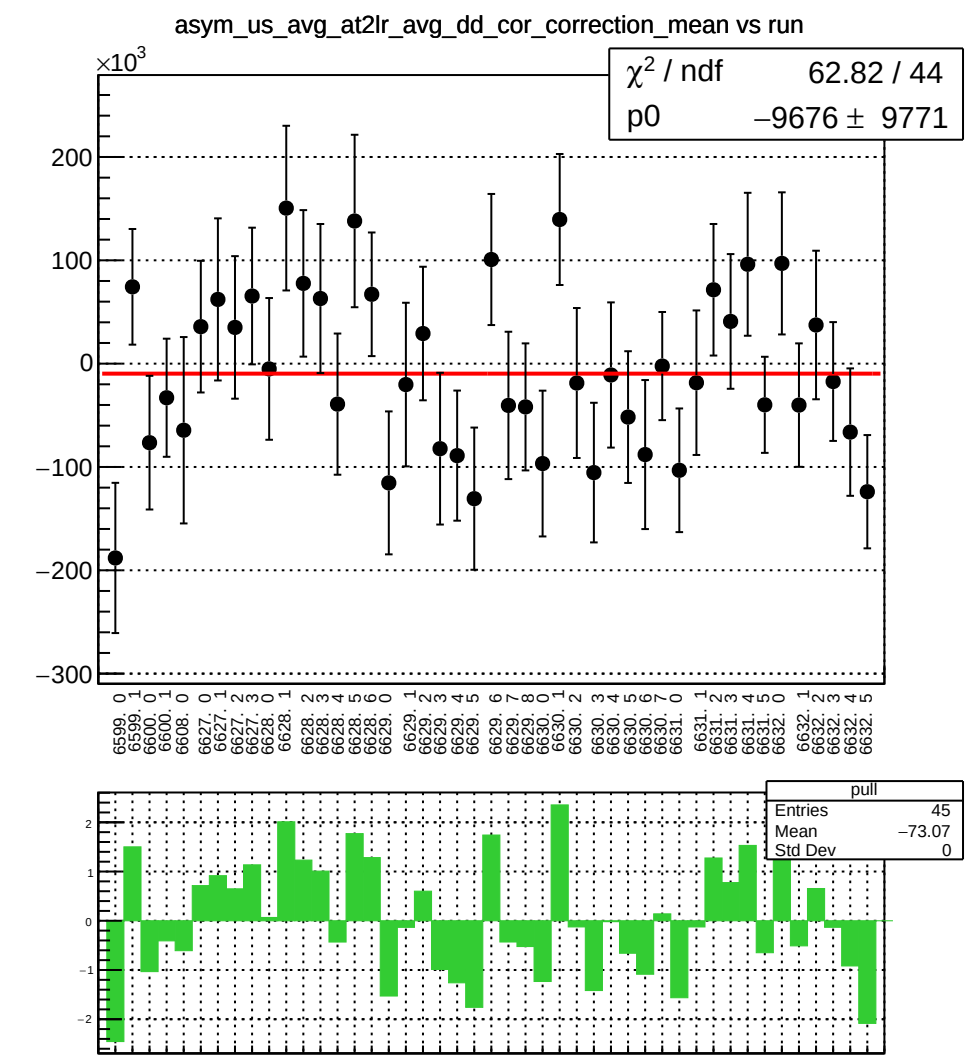

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 62.82 / 44
p0 −9676 ± 9771
200
100
0
−100
−200
−300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −73.09
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01844
Std Dev 1.181
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

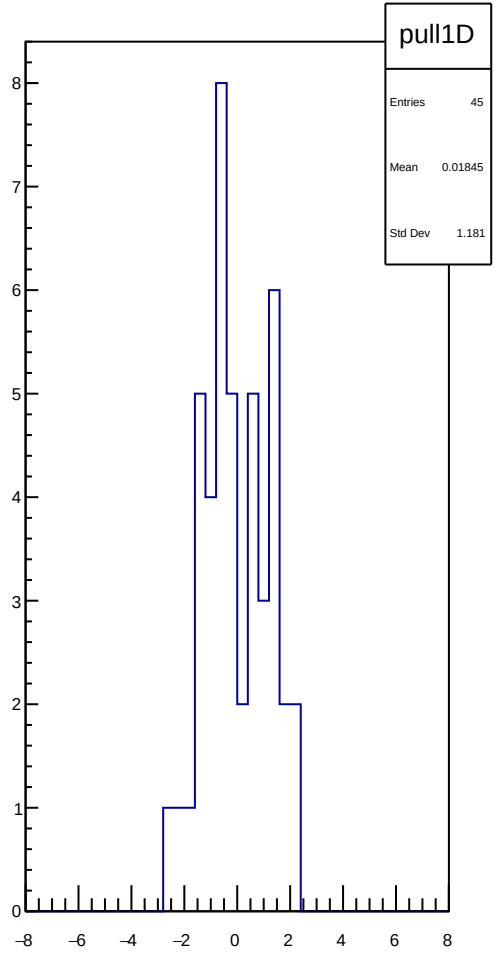

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 5961 / 44
p0 6468 ± 6.909
8000
7500
7000
6500
6000
5500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

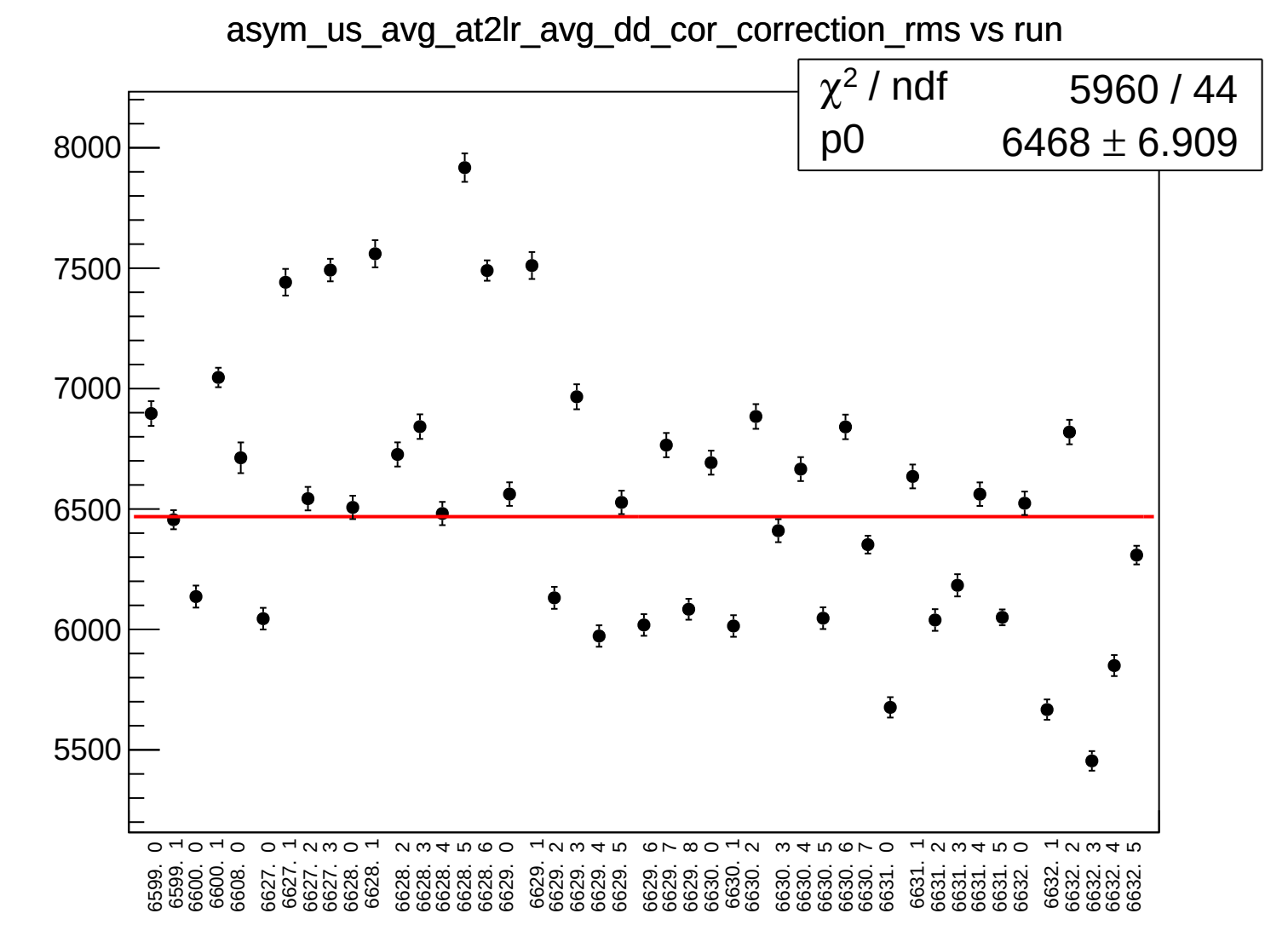

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 45.05 / 44
p0 −7168 ± 2839
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −12.88
Std Dev 0
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.02984
Std Dev 1
9
8
7
6
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 423.9 / 44
p0 1886 ± 2.008
1950
1900
1850
1800
1750
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 62.82 / 44
p0 −9676 ± 9771
200
100
0
−100
−200
−300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −73.07
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.01845
Std Dev 1.181
8
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 5960 / 44
p0 6468 ± 6.909
8000
7500
7000
6500
6000
5500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
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6629. 6
6629. 7
6629. 8
6630. 0
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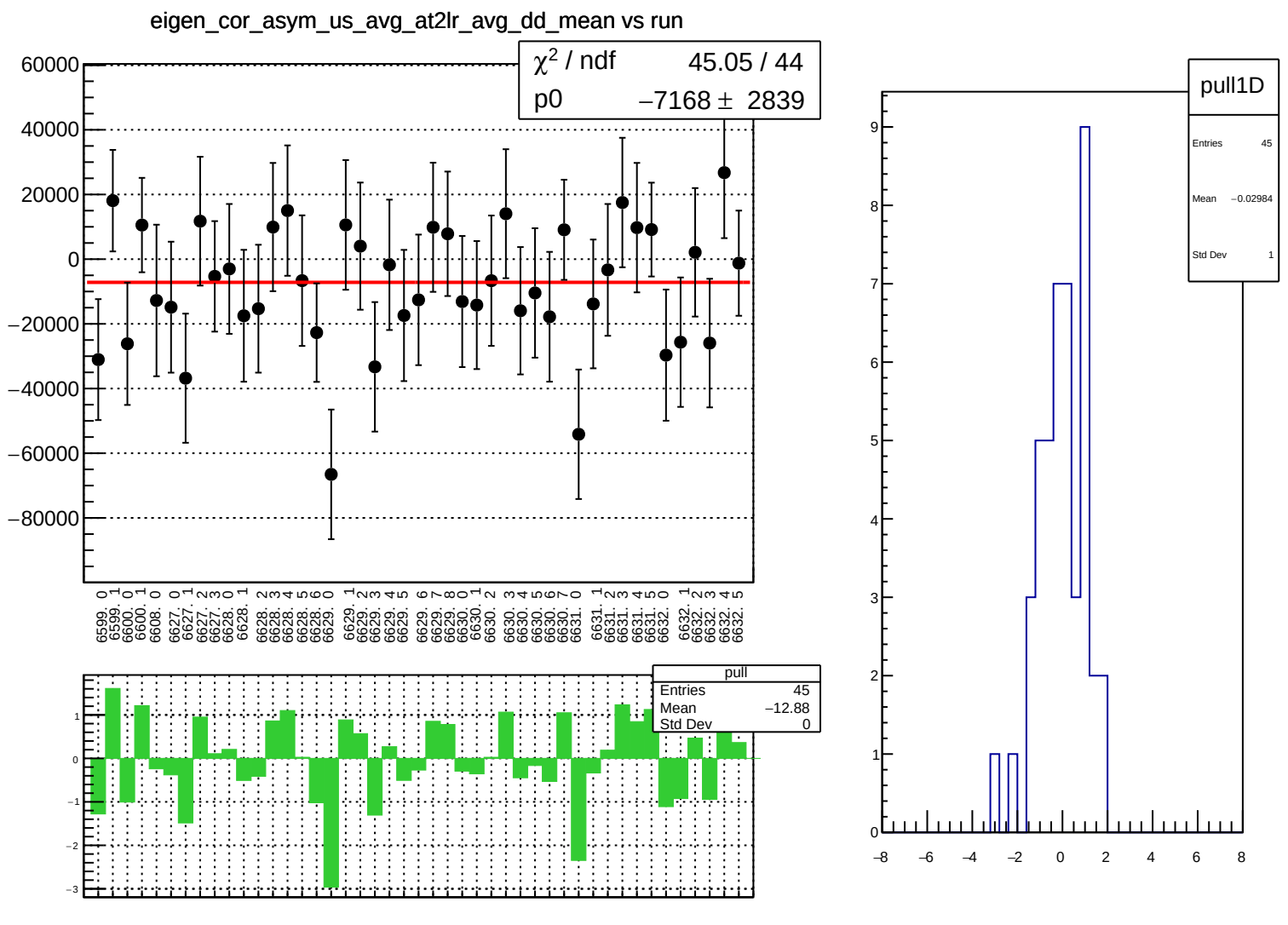
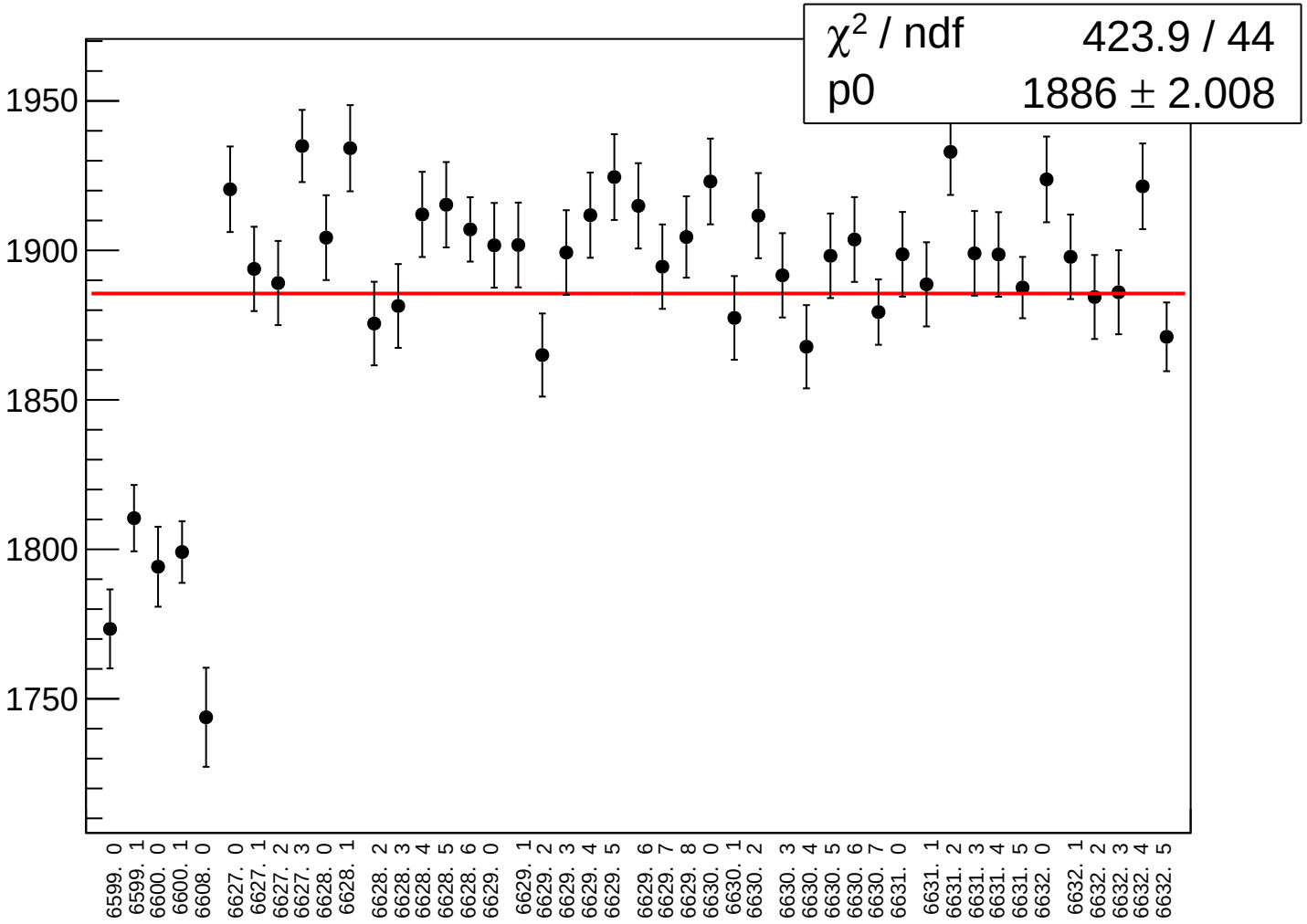
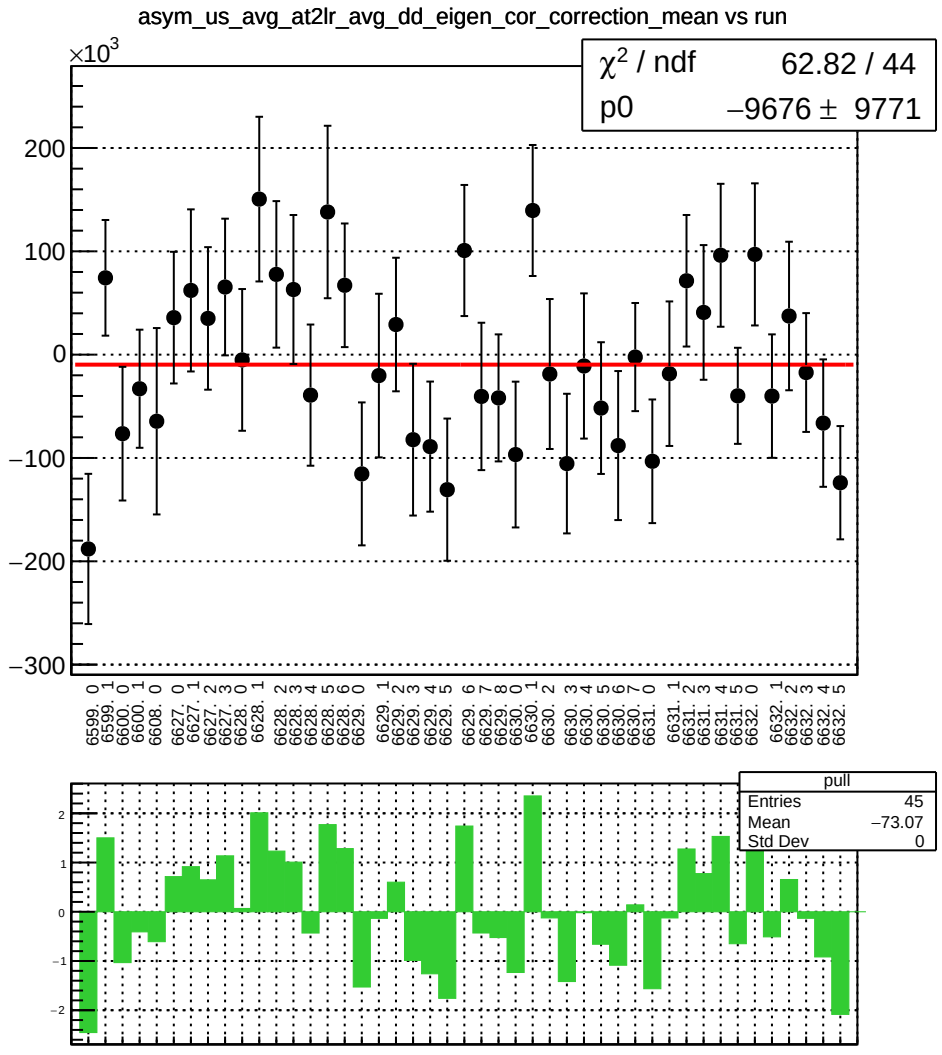
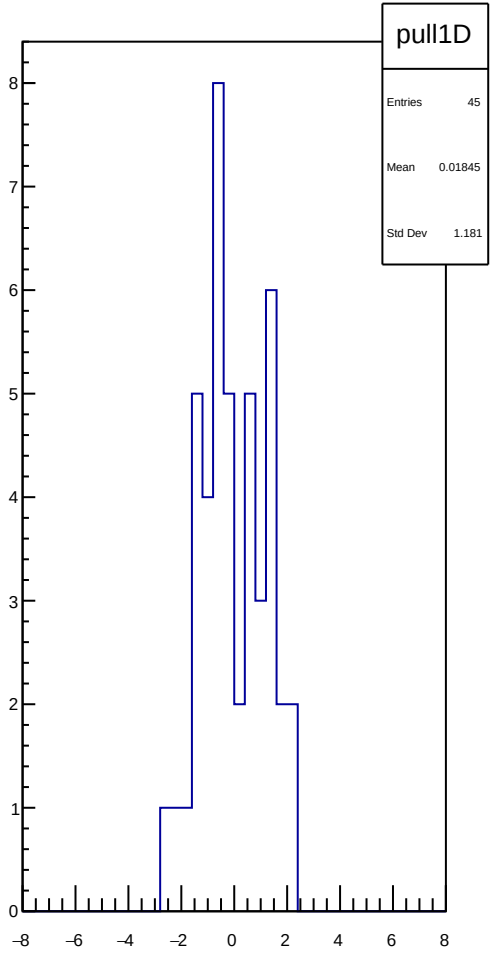
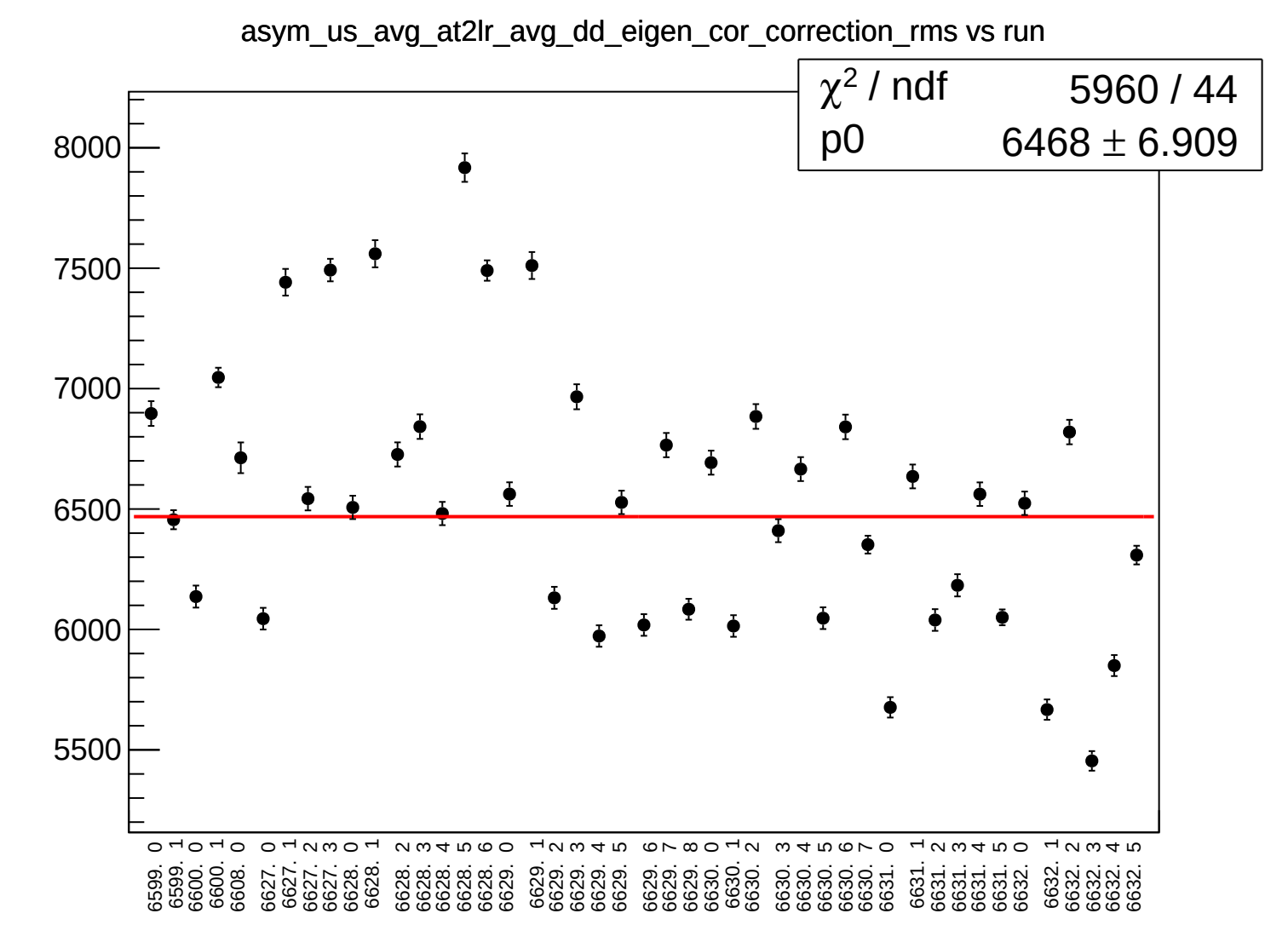
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

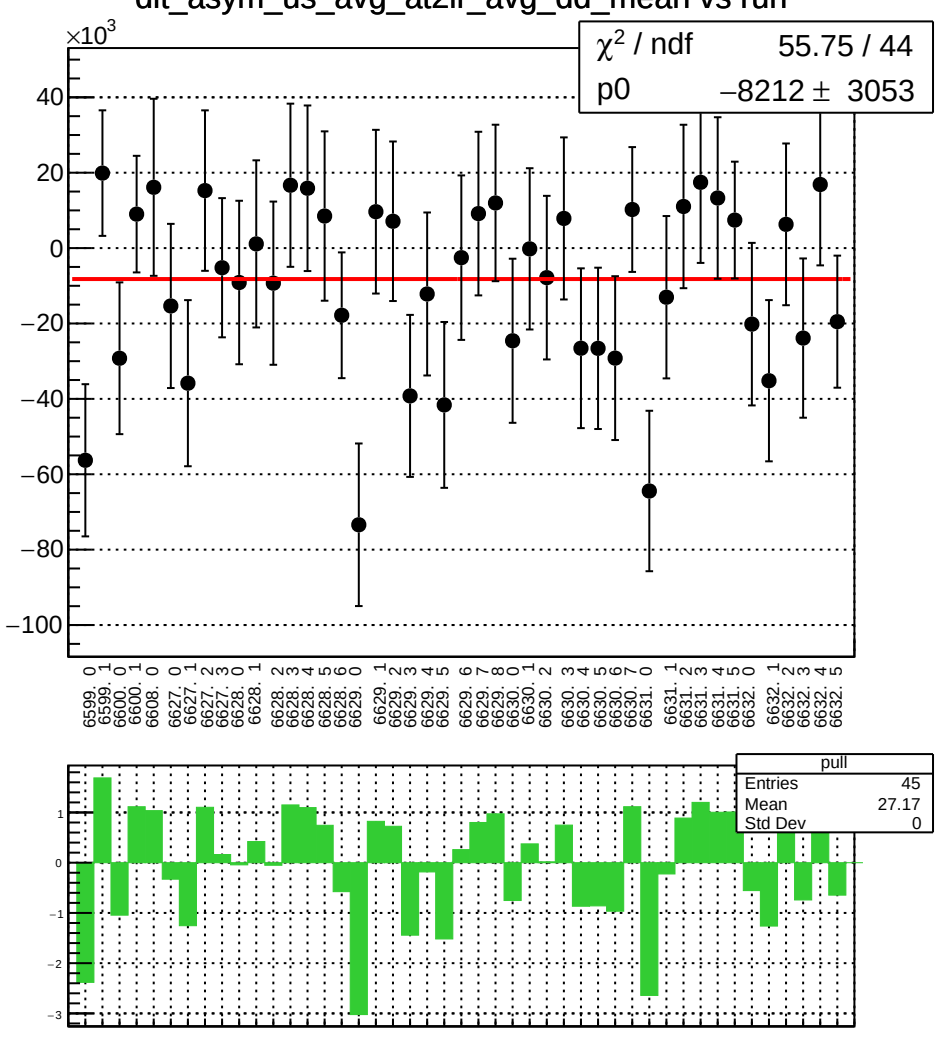

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 45.05 / 44
p0 −7168 ± 2839
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −12.88
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.02984
Std Dev 1
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

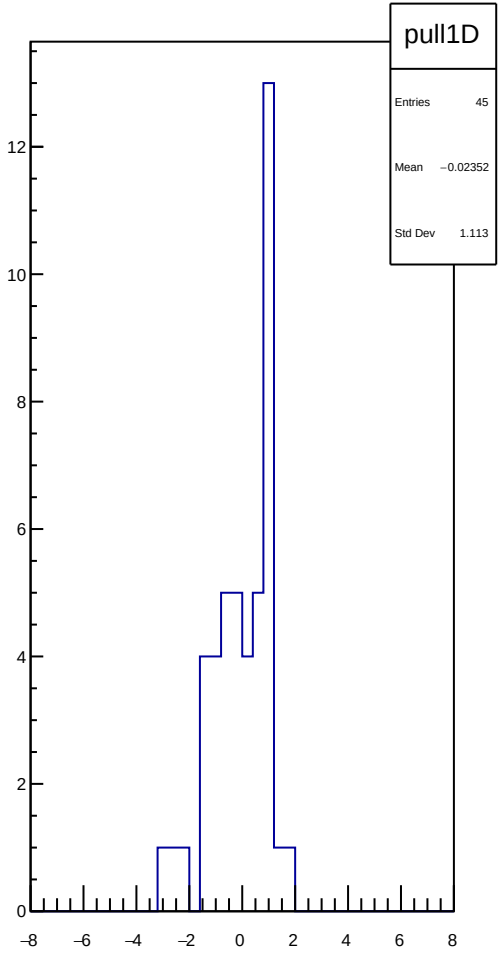

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 423.9 / 44
p0 1886 ± 2.008
1950
1900
1850
1800
1750
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

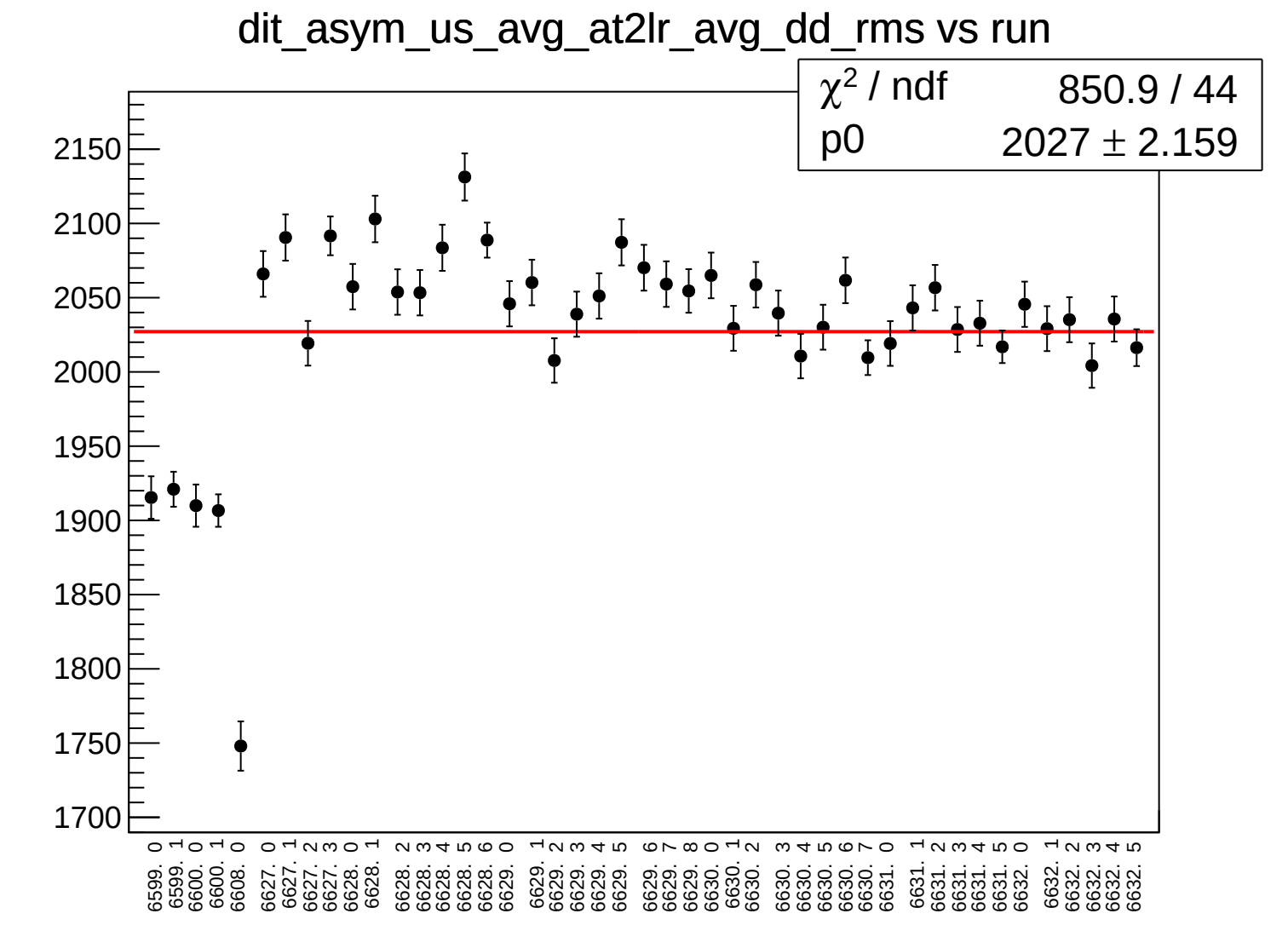

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 62.82 / 44
p0 −9676 ± 9771
200
100
0
−100
−200
−300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −73.07
Std Dev 0
2
1
0
−1
−2

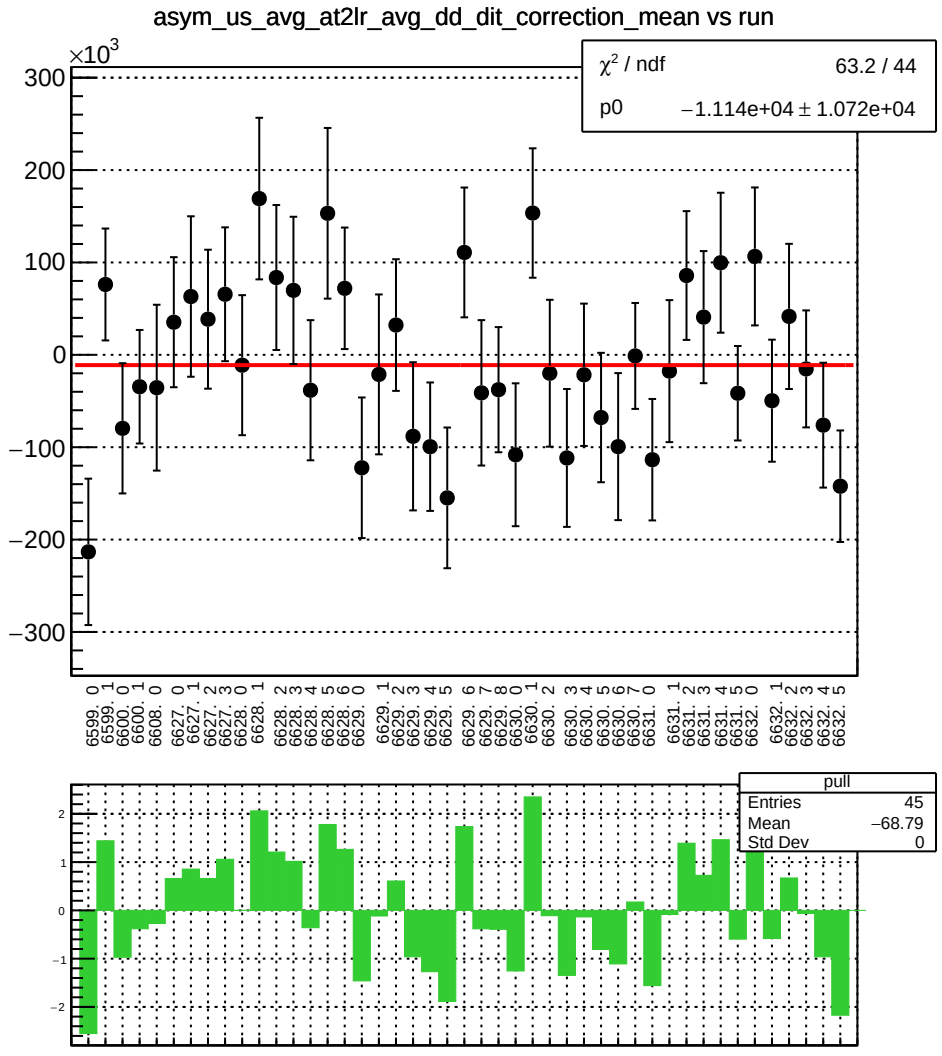

pull1D
Entries 45
Mean 0.01845
Std Dev 1.181
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

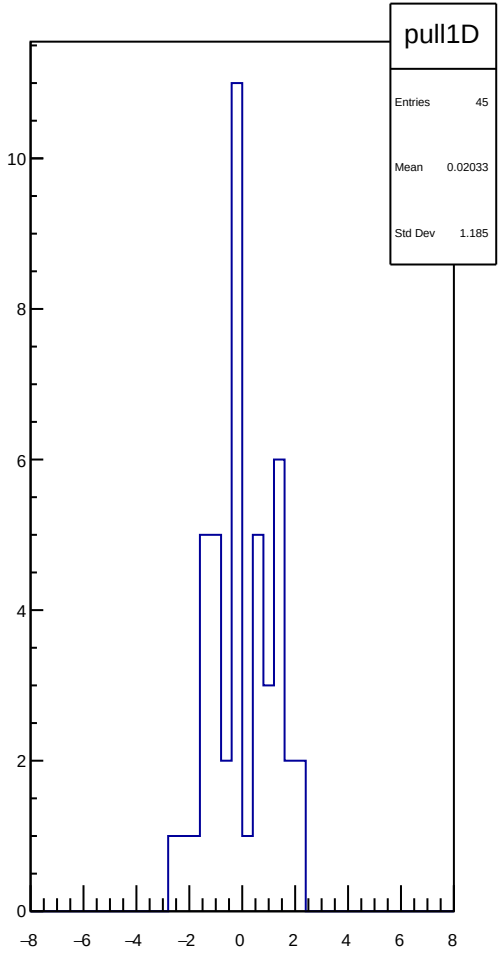

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 5960 / 44
p0 6468 ± 6.909
8000
7500
7000
6500
6000
5500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

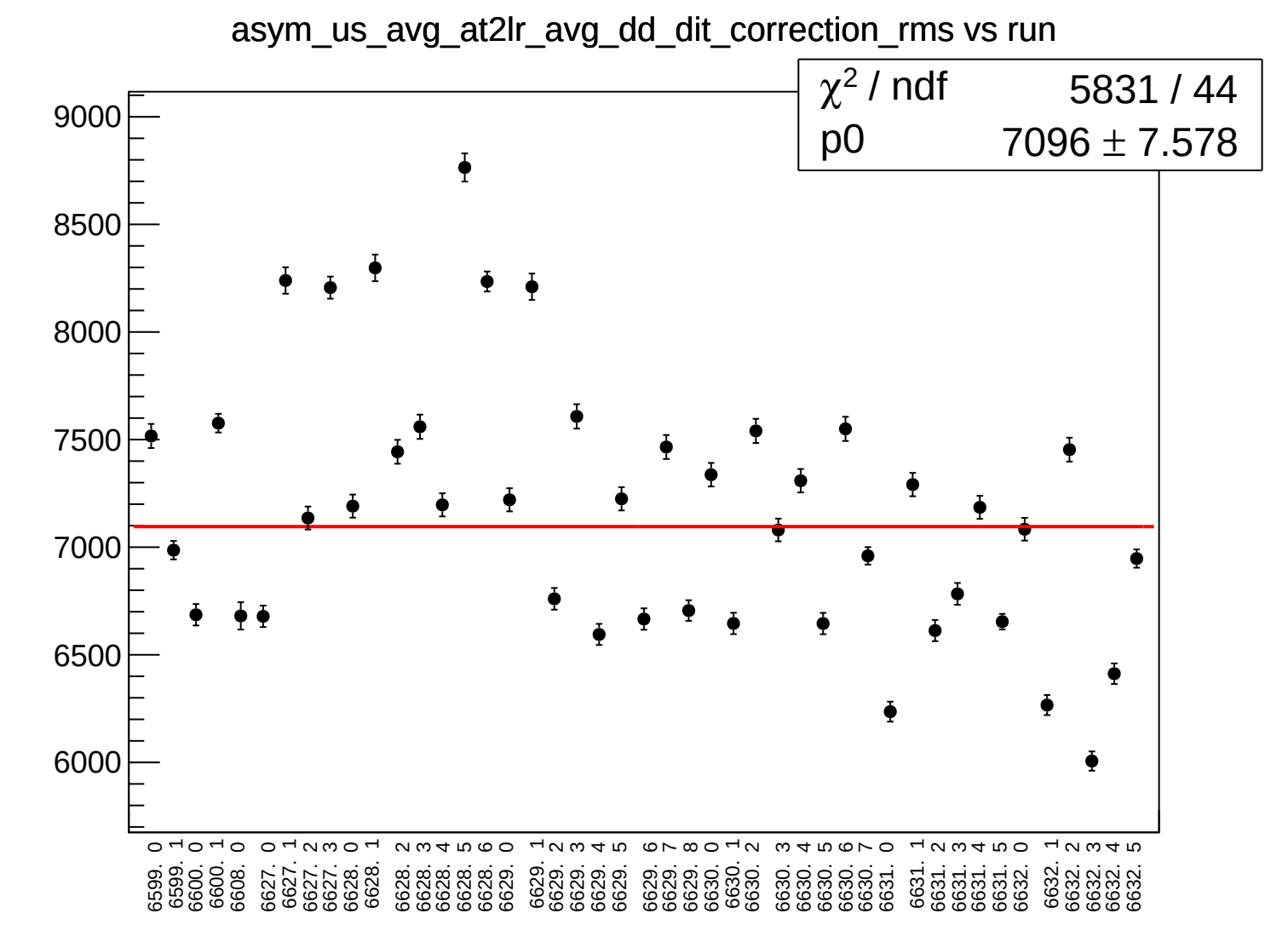

dit_asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 55.75 / 44
p0 −8212 ± 3053
40
20
0
−20
−40
−60
−80
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 27.17
Std Dev 0
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.02352
Std Dev 1.113
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 850.9 / 44
p0 2027 ± 2.159
2150
2100
2050
2000
1950
1900
1850
1800
1750
1700
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 63.2 / 44
p0 −1.114e+04 ± 1.072e+04
300
200
100
0
−100
−200
−300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −68.79
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.02033
Std Dev 1.185
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 5831 / 44
p0 7096 ± 7.578
9000
8500
8000
7500
7000
6500
6000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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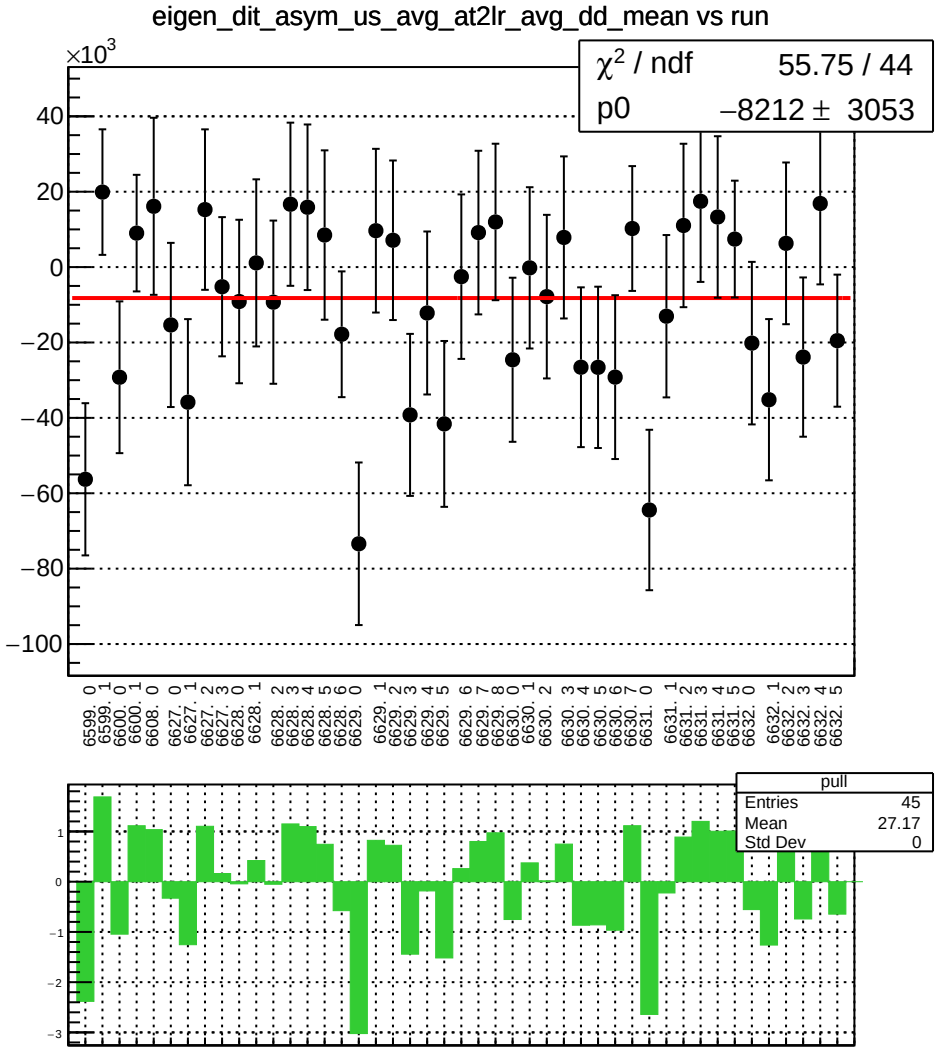
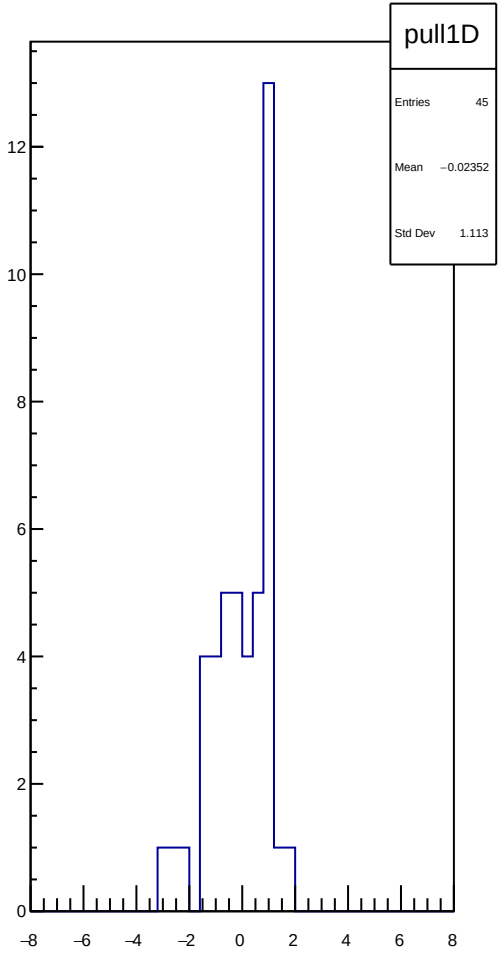
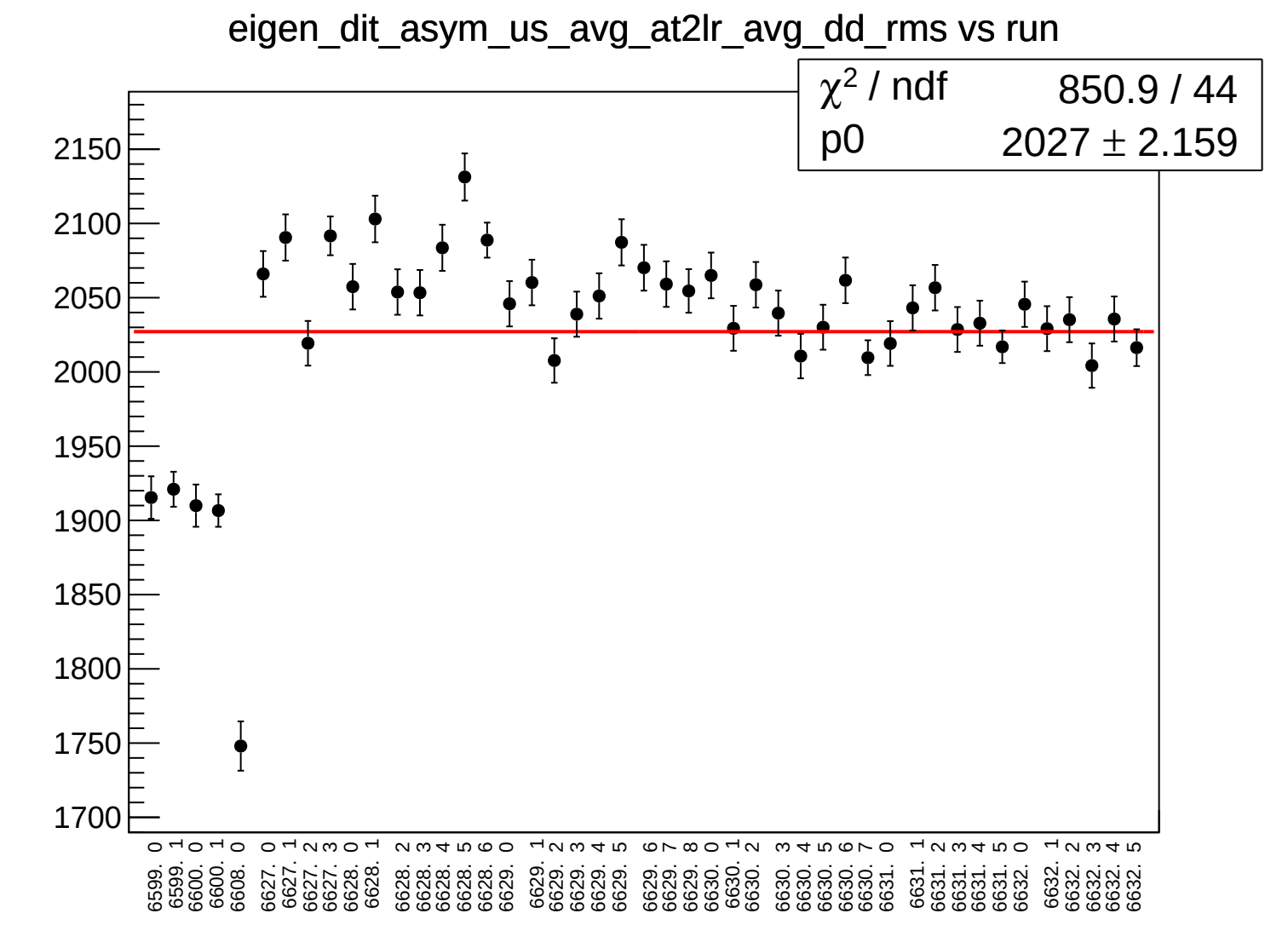
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 55.75 / 44
p0 −8212 ± 3053
40
20
0
−20
−40
−60
−80
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 27.17
Std Dev 0
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.02352
Std Dev 1.113
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 850.9 / 44
p0 2027 ± 2.159
2150
2100
2050
2000
1950
1900
1850
1800
1750
1700
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
6631. 5
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6632. 1
6632. 2
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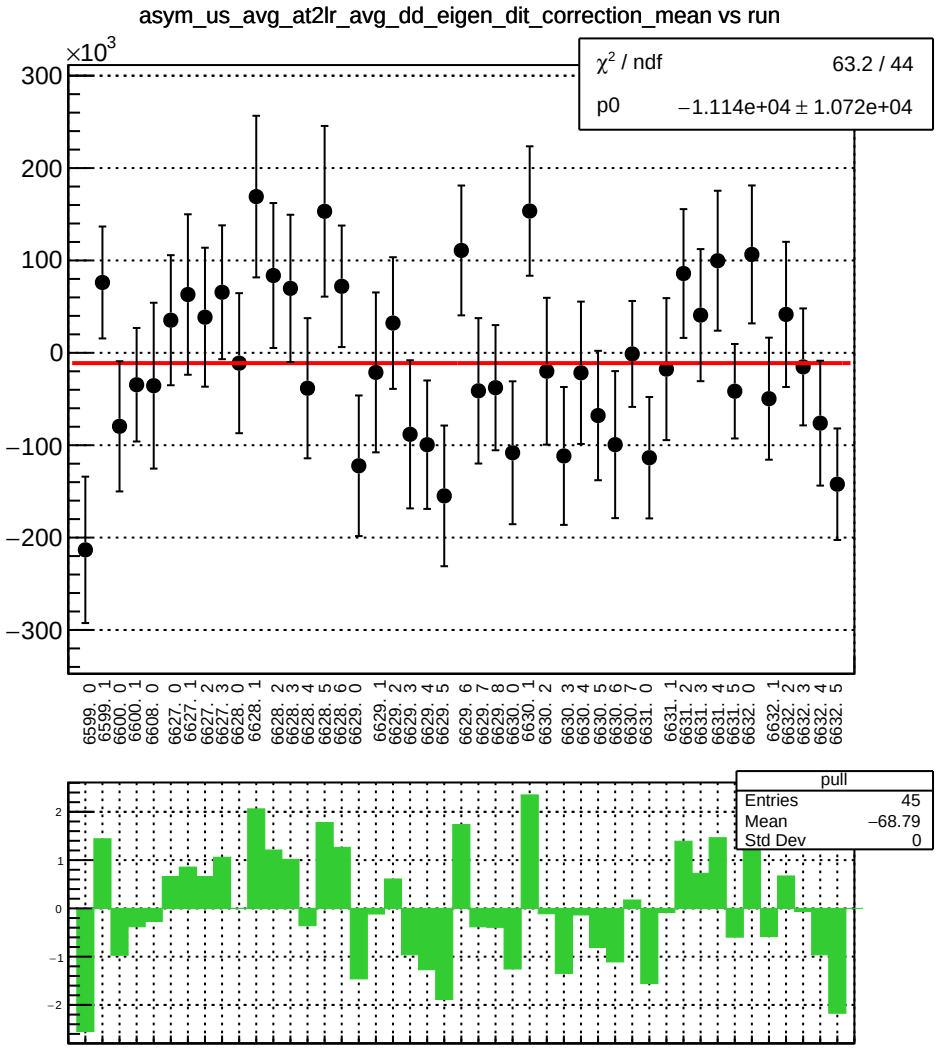
6632. 4
6632. 5


asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 63.2 / 44
p0 −1.114e+04 ± 1.072e+04
300
200
100
0
−100
−200
−300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6631. 0
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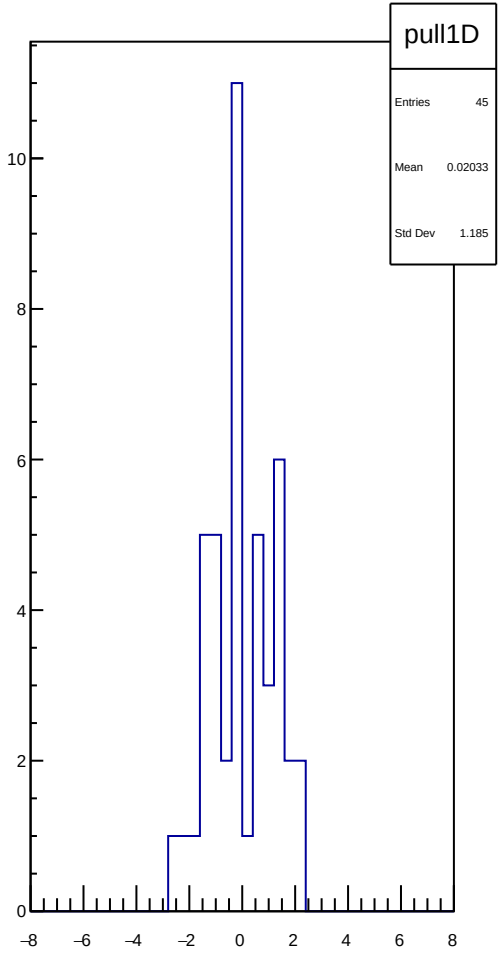
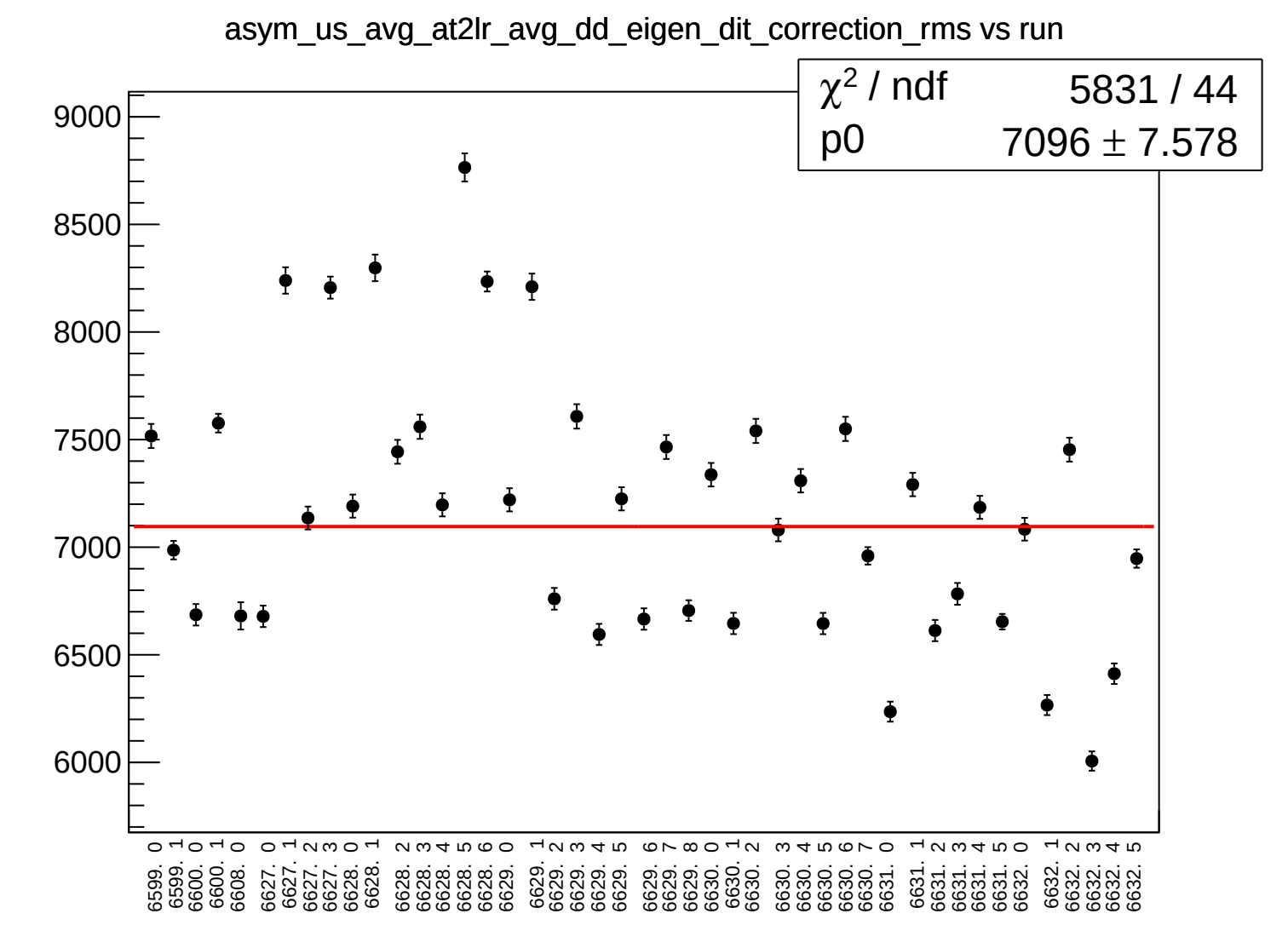
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −68.79
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.02033
Std Dev 1.185
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 5831 / 44
p0 7096 ± 7.578
9000
8500
8000
7500
7000
6500
6000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6628. 6
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6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
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6631. 0
6631. 1
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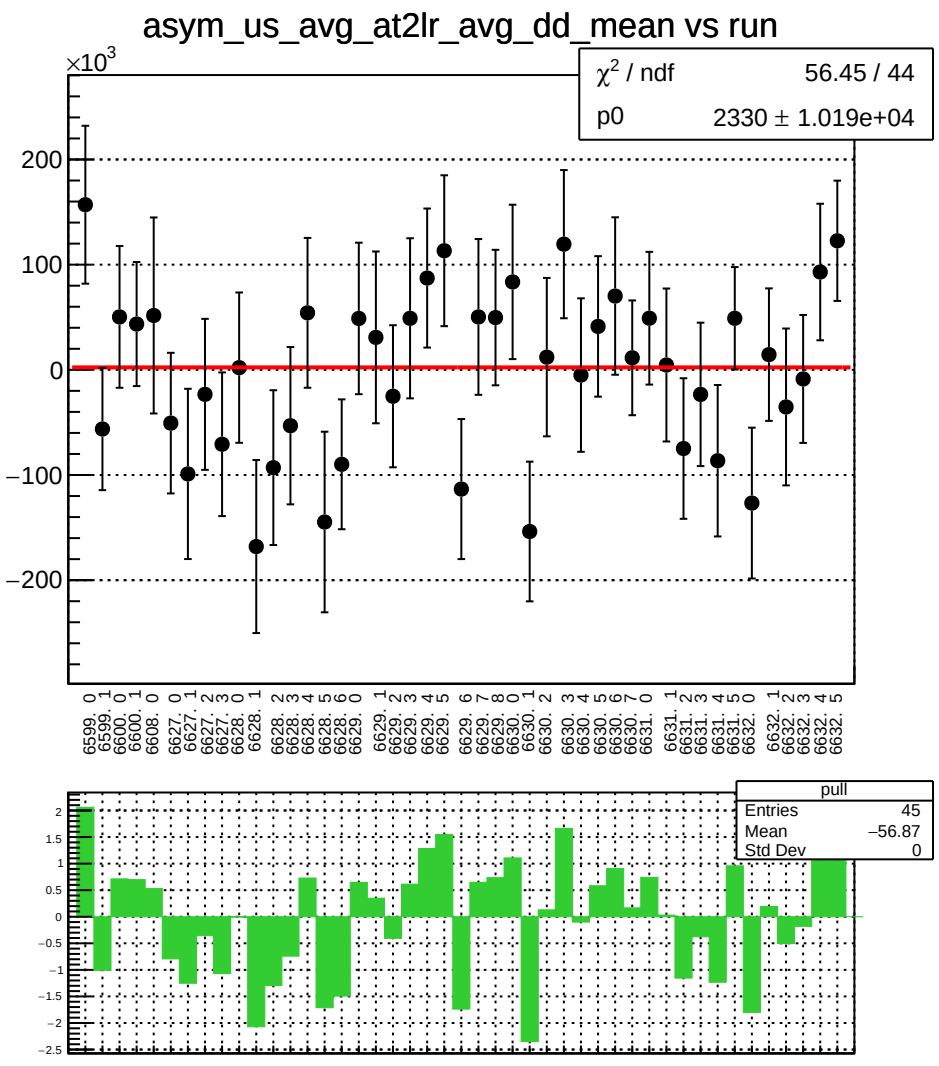
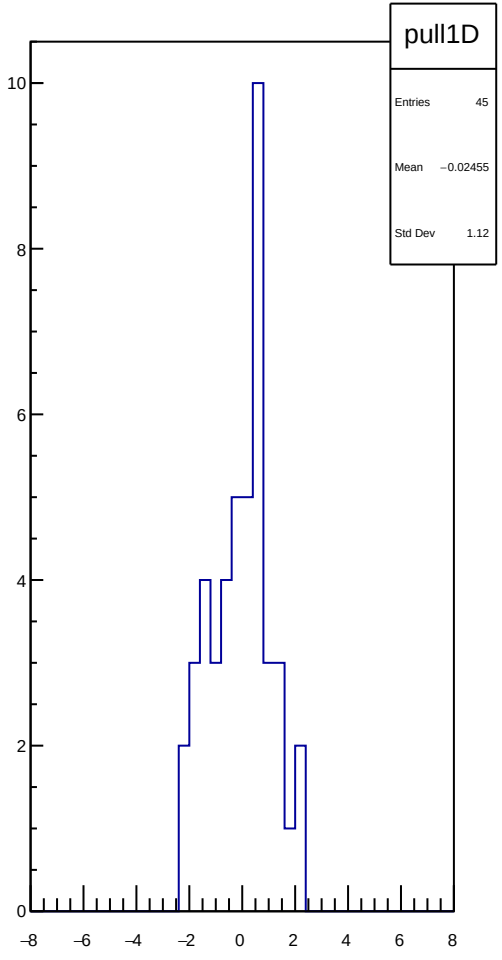
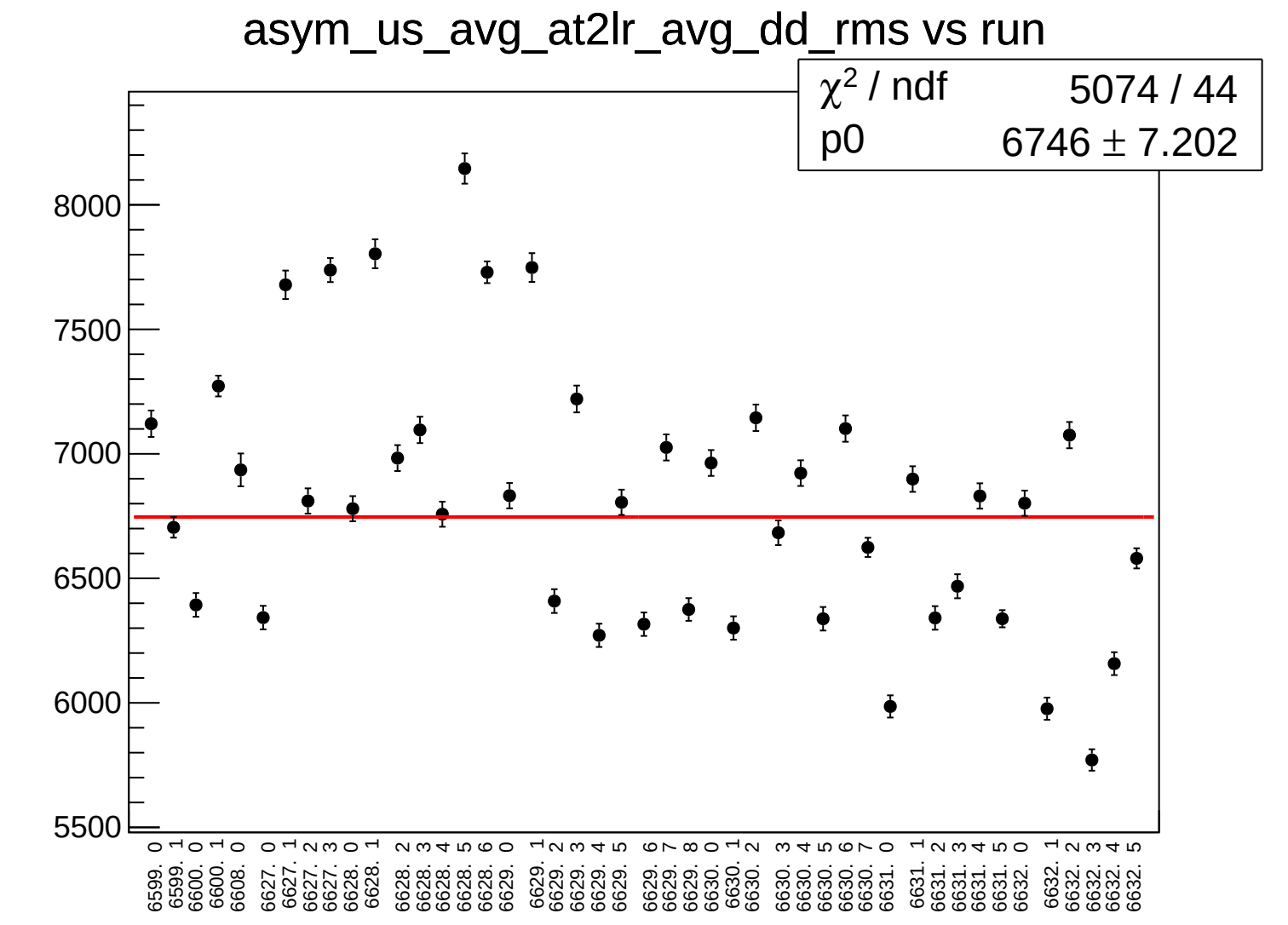
6632. 4
6632. 5


asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 56.45 / 44
p0 2330 ± 1.019e+04
200
100
0
−100
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −56.87
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean −0.02455
Std Dev 1.12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 5074 / 44
p0 6746 ± 7.202
8000
7500
7000
6500
6000
5500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
6632. 0
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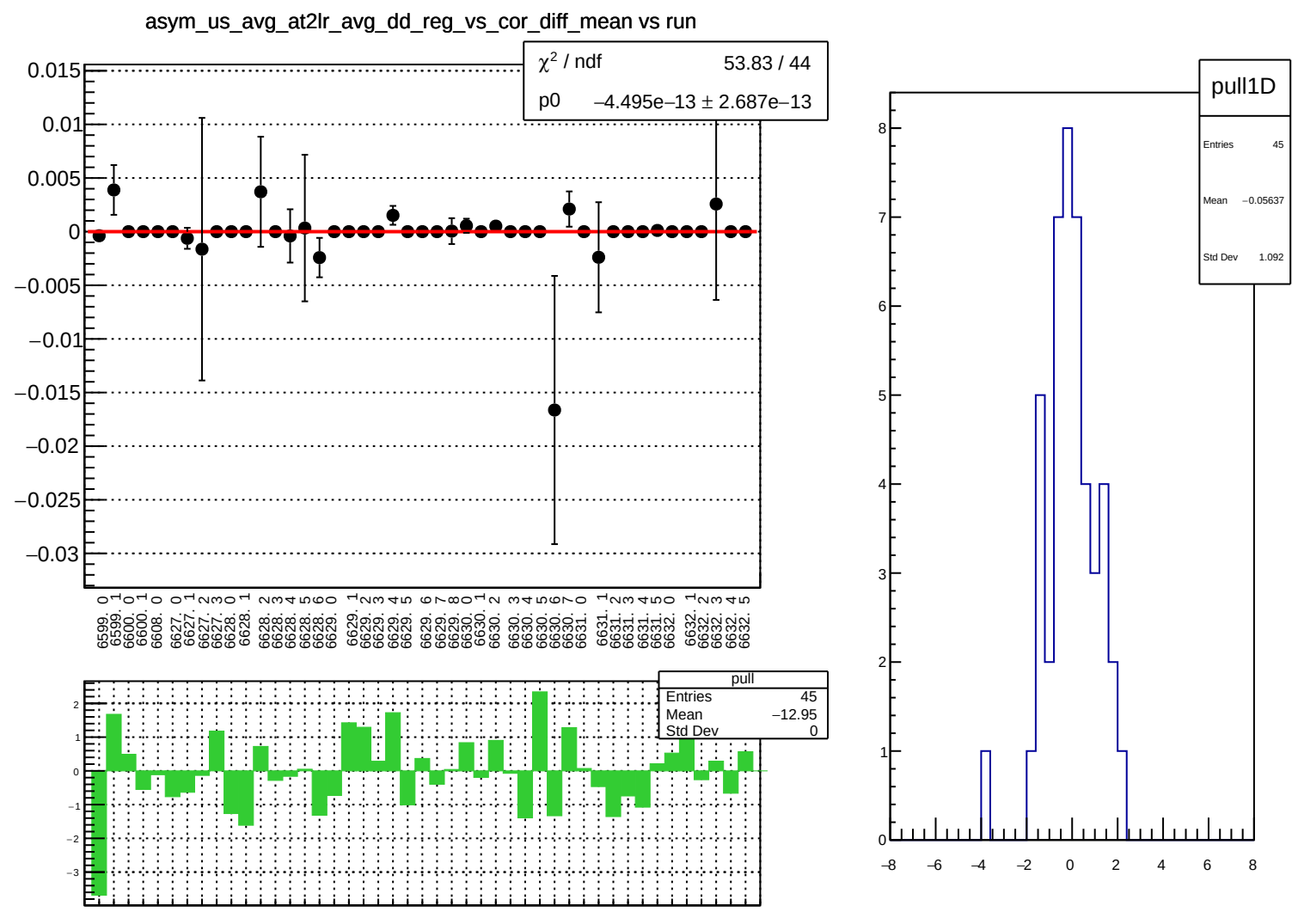
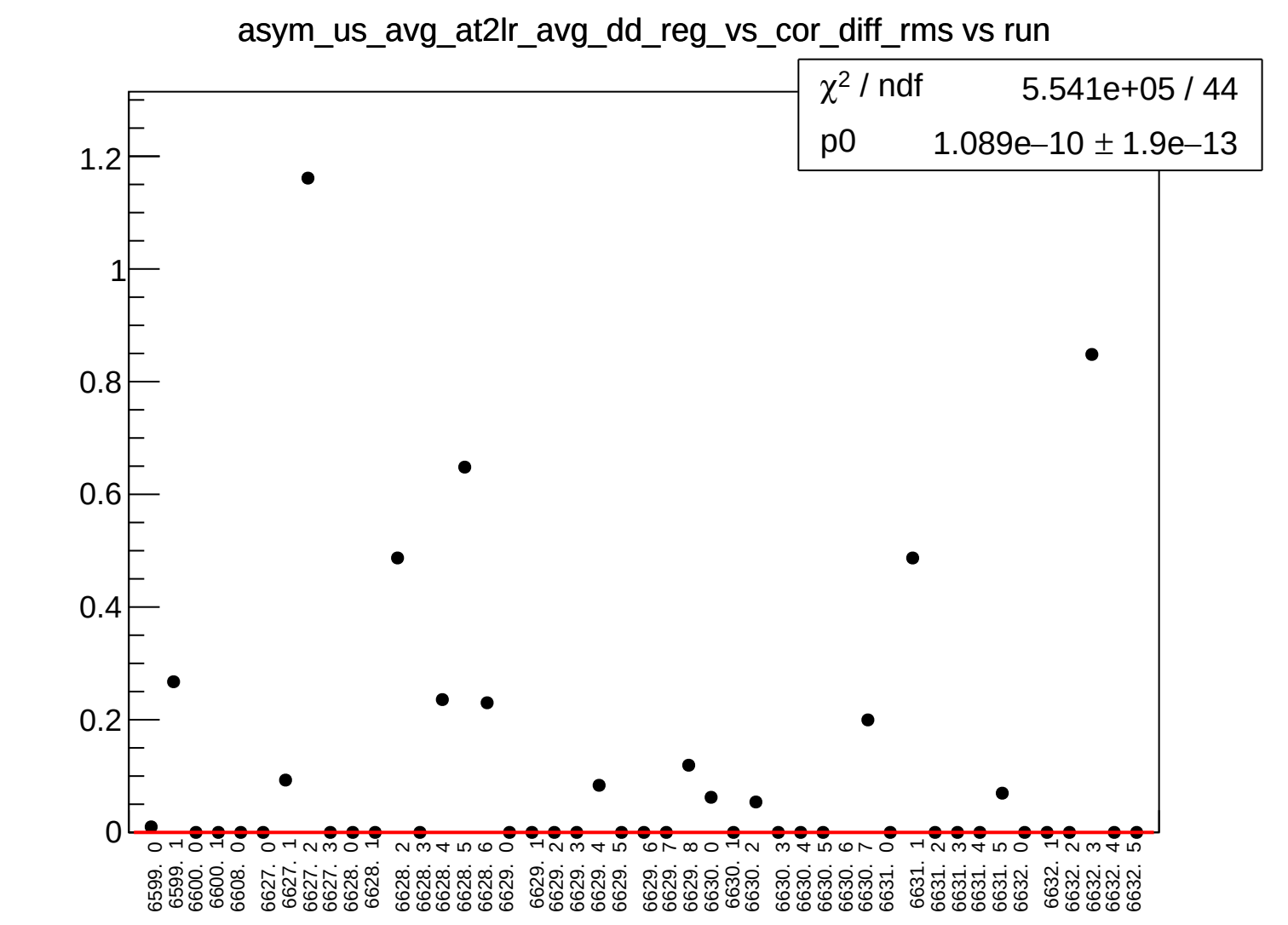
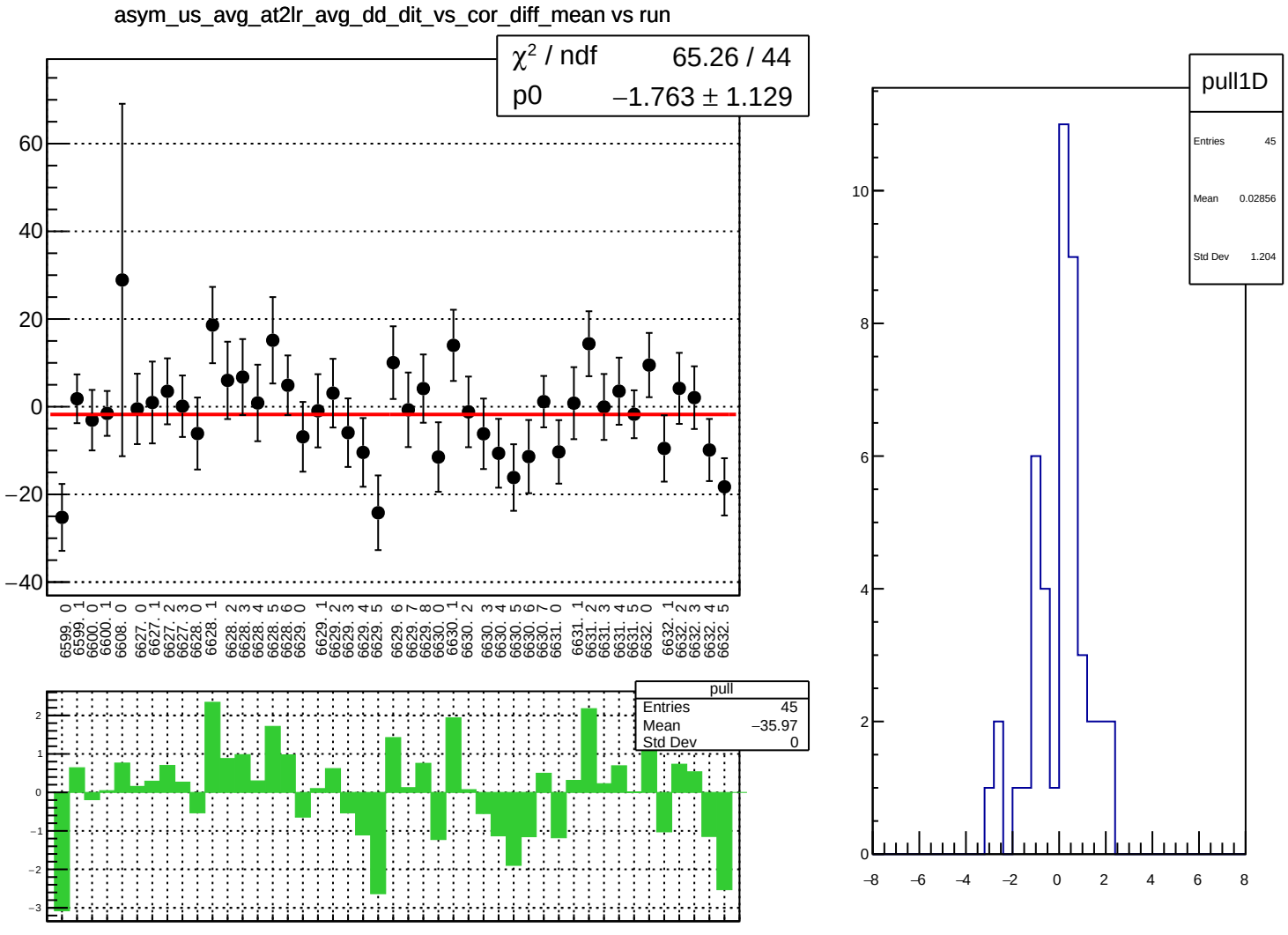
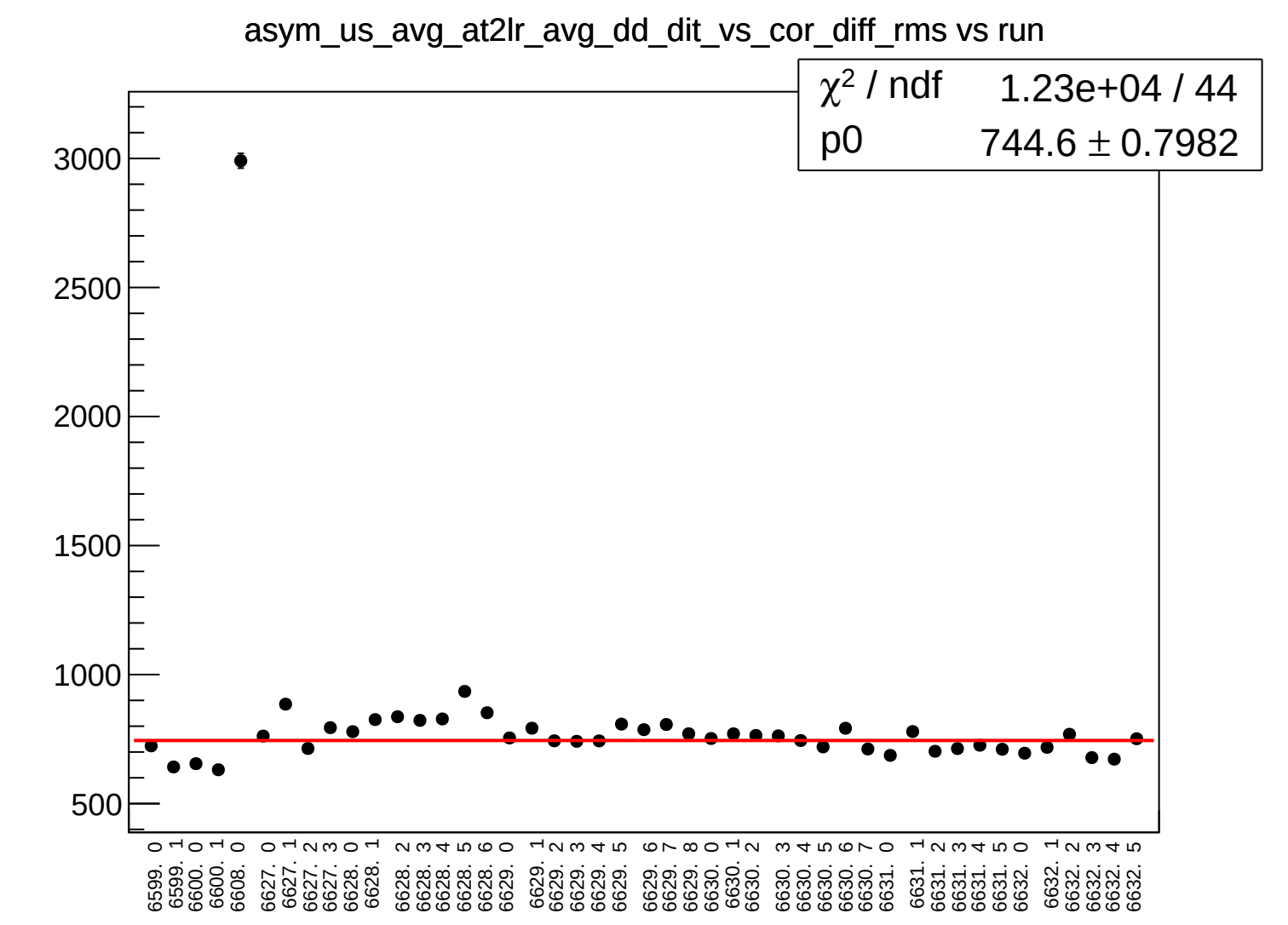
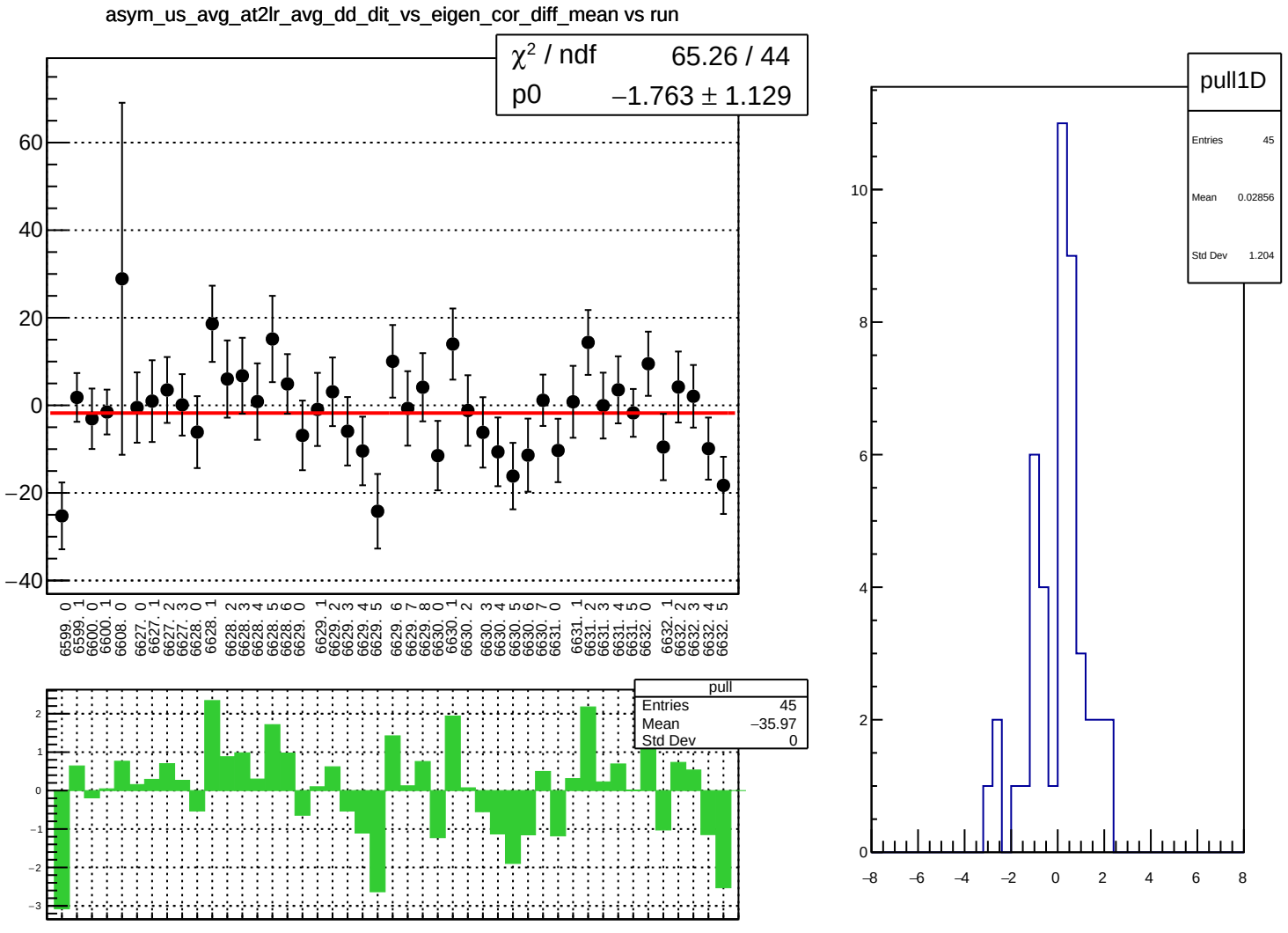
6632. 2
6632. 3
6632. 4
6632. 5

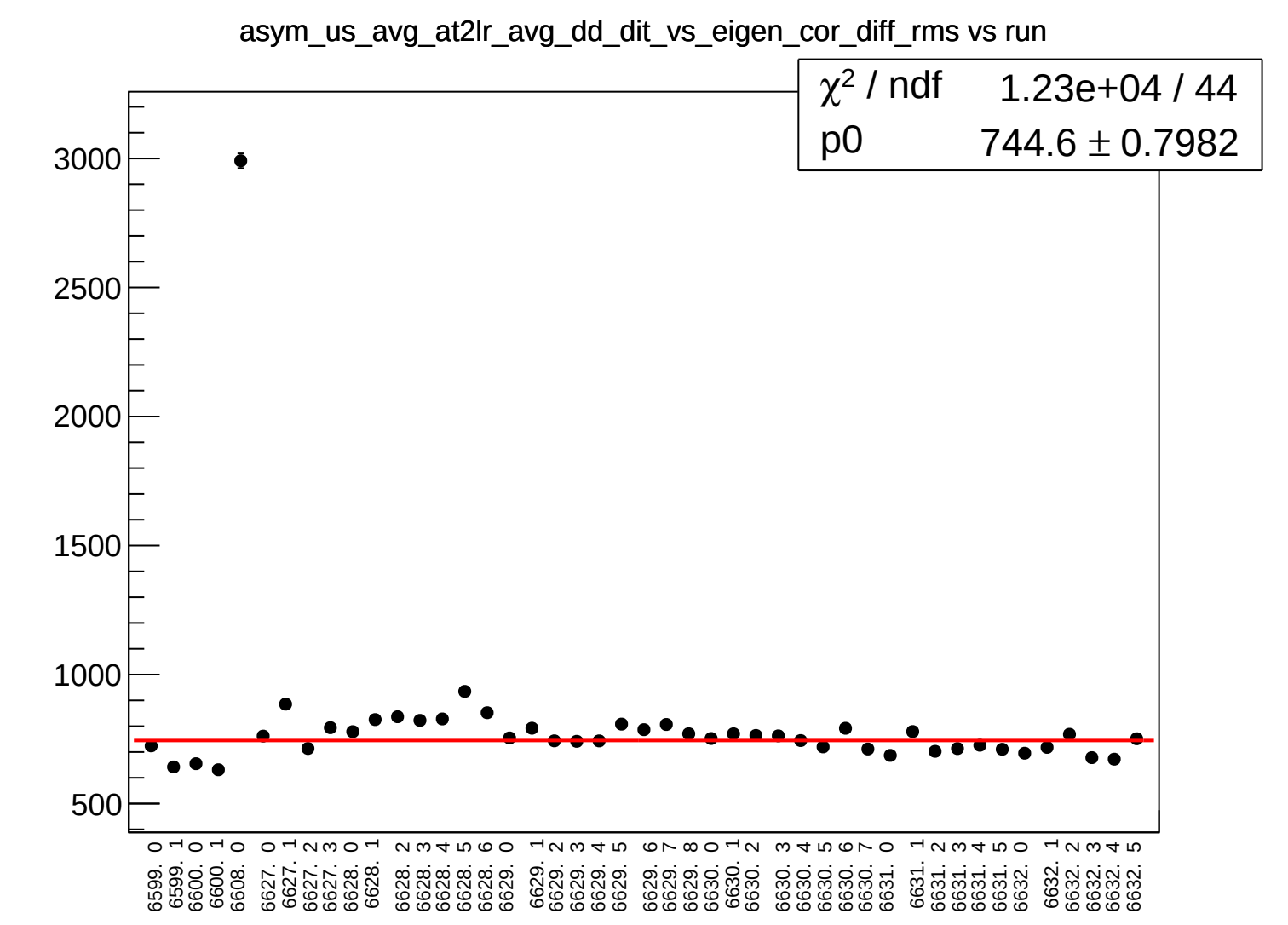

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 53.83 / 44
p0 −4.495e−13 ± 2.687e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
−0.03
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −12.95
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.05637
Std Dev 1.092
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

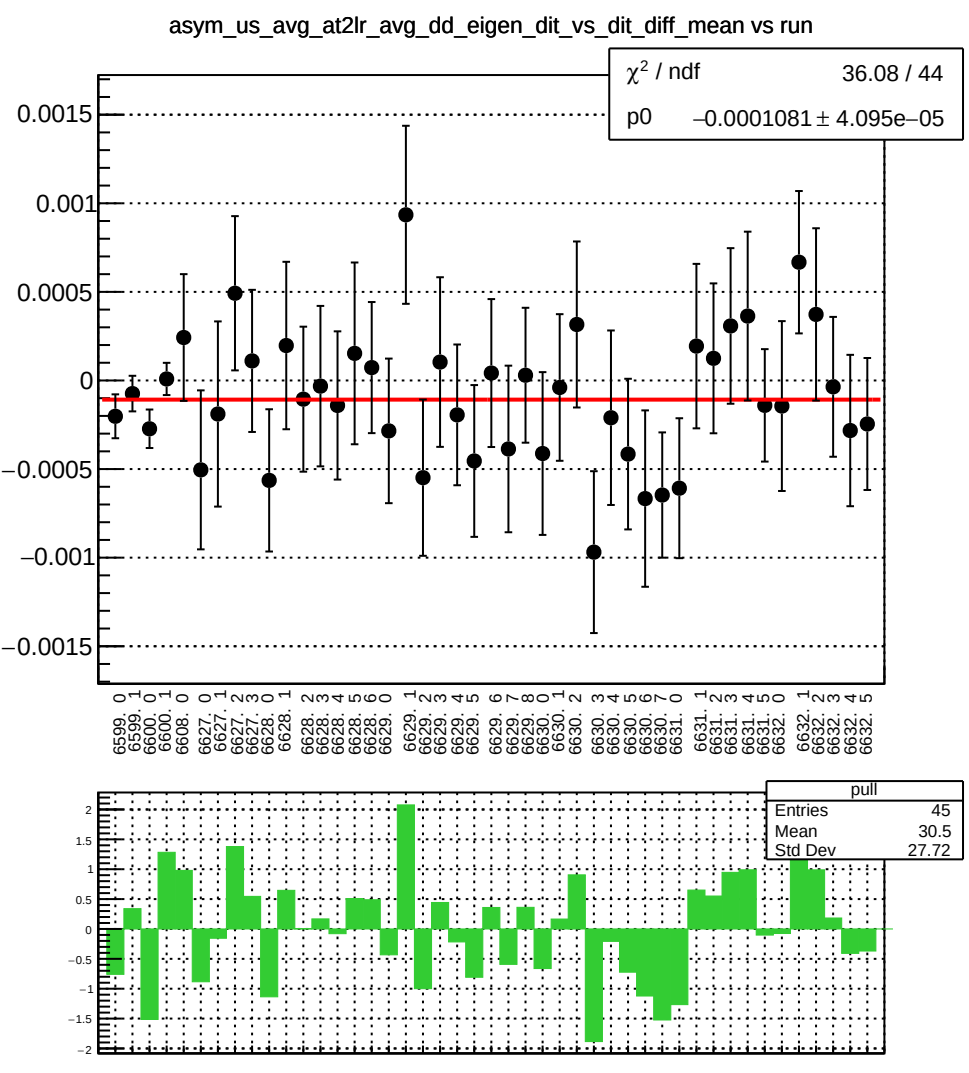

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.541e+05 / 44
p0 1.089e−10 ± 1.9e−13
1.2
1
0.8
0.6
0.4
0.2
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

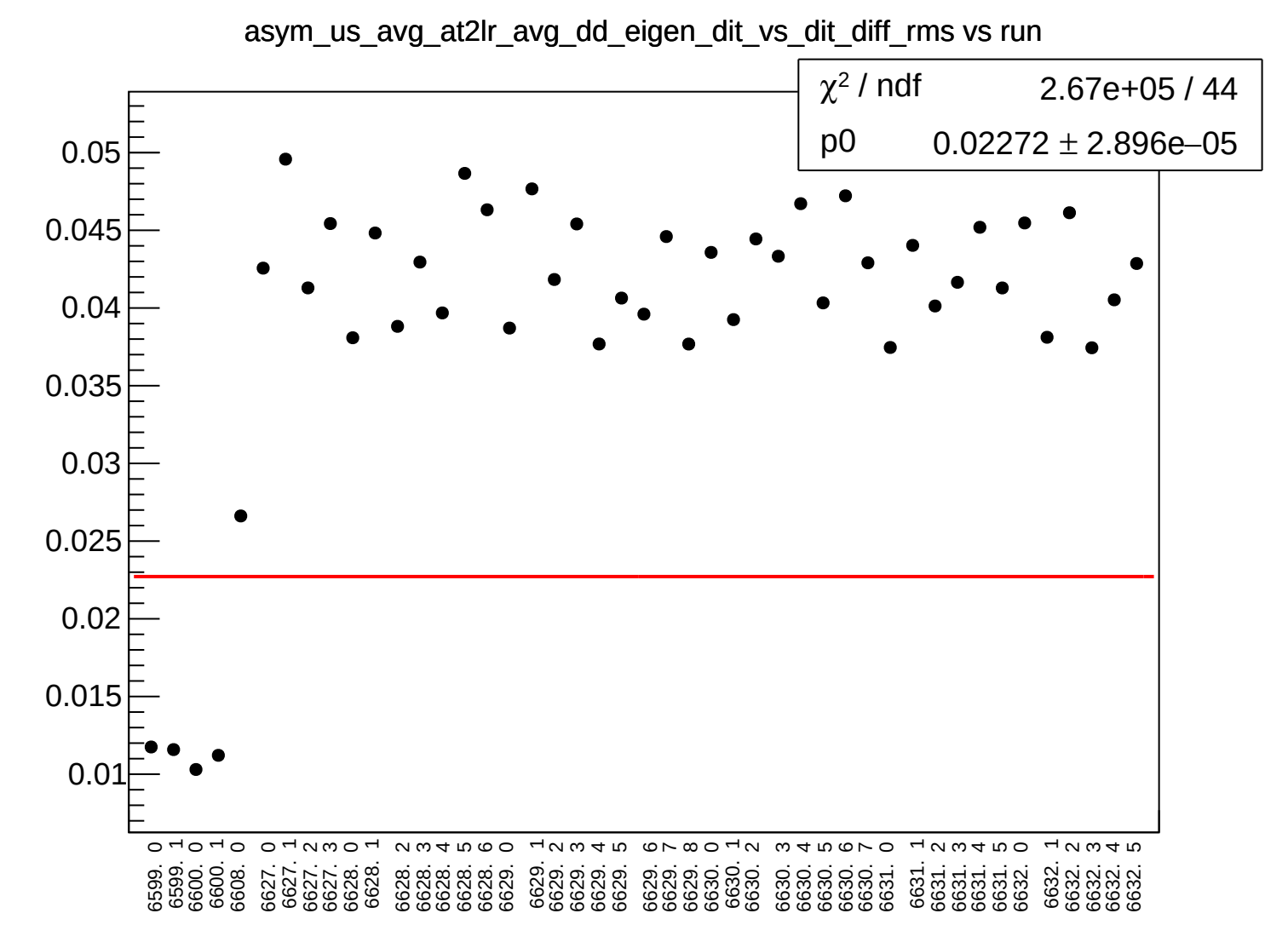

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 65.26 / 44
p0 −1.763 ± 1.129
pull
Entries 45
Mean −35.97
Std Dev 0
pull1D
Entries 45
Mean 0.02856
Std Dev 1.204

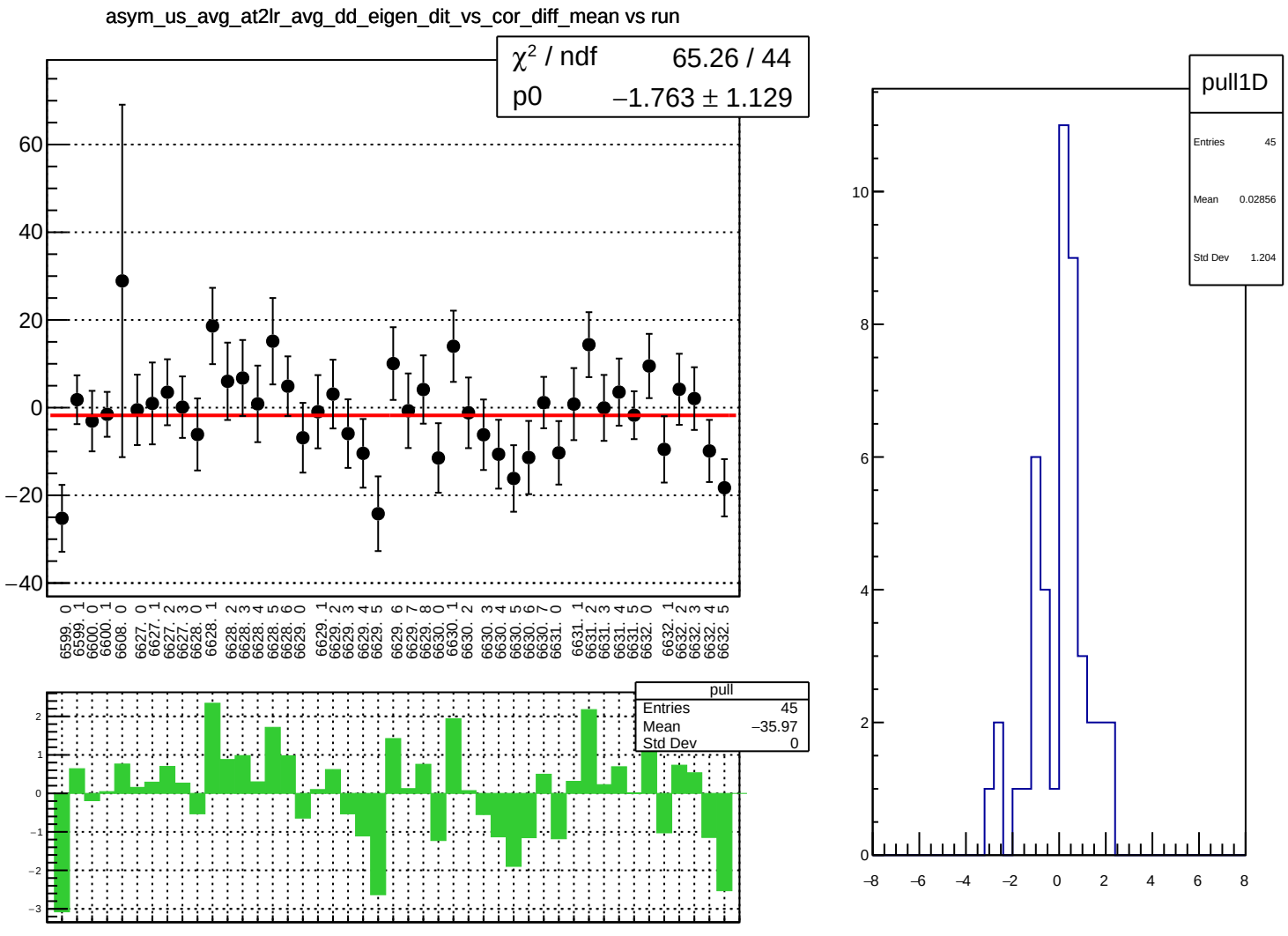

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.23e+04 / 44
p0 744.6 ± 0.7982
3000
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

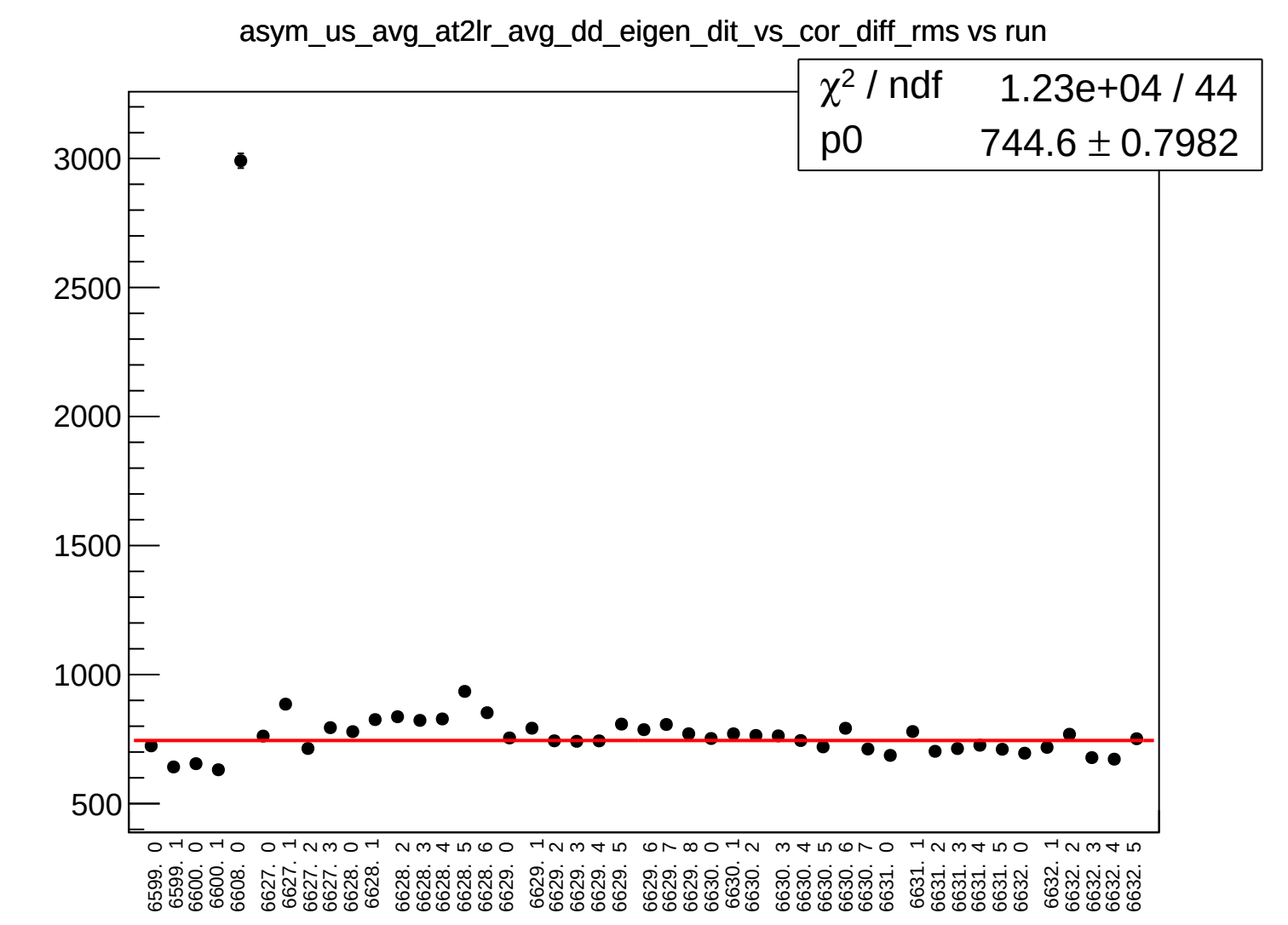

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.26 / 44
p0 −1.763 ± 1.129
pull
Entries 45
Mean −35.97
Std Dev 0
pull1D
Entries 45
Mean 0.02856
Std Dev 1.204

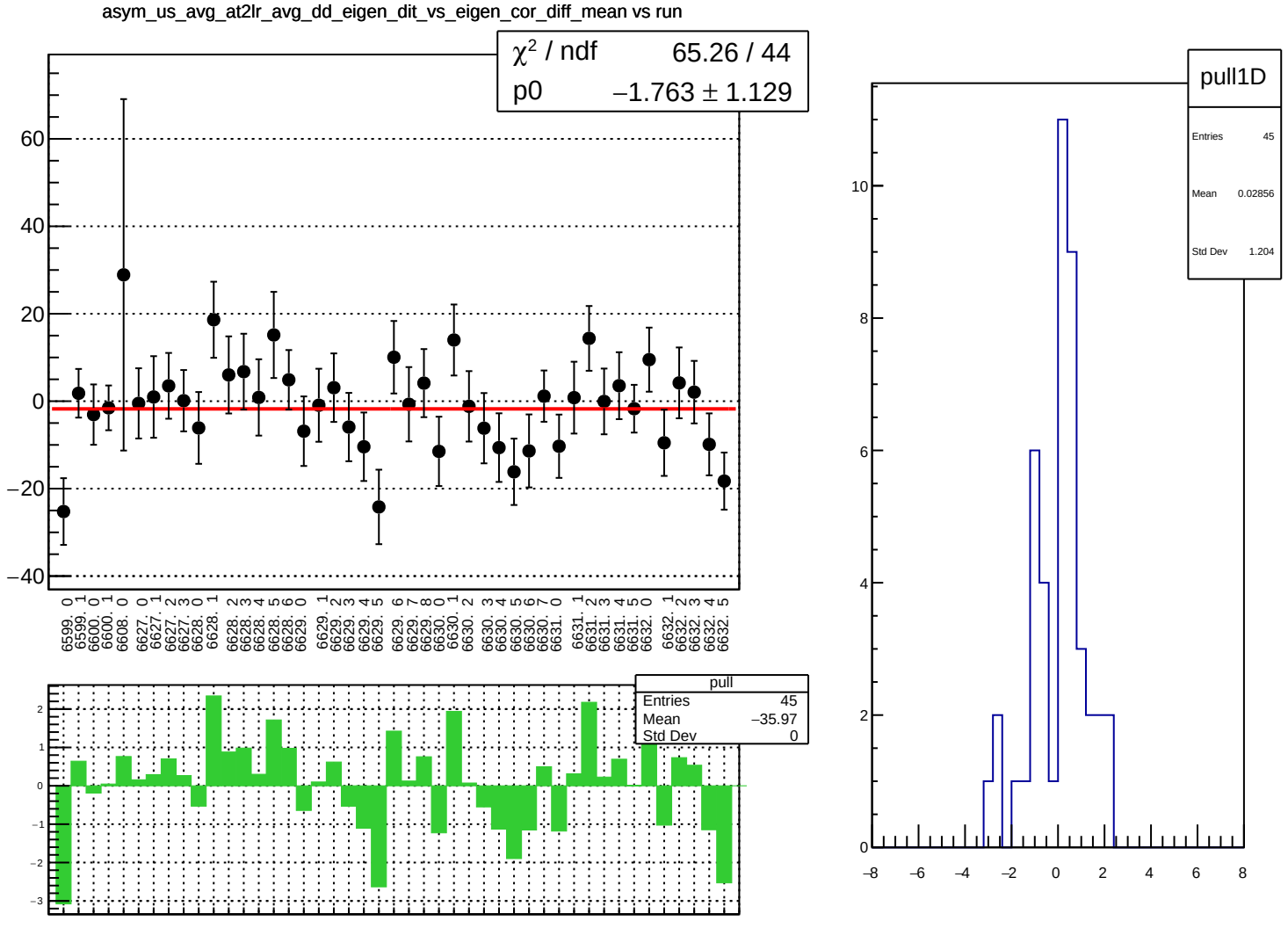

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.23e+04 / 44
p0 744.6 ± 0.7982
3000
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

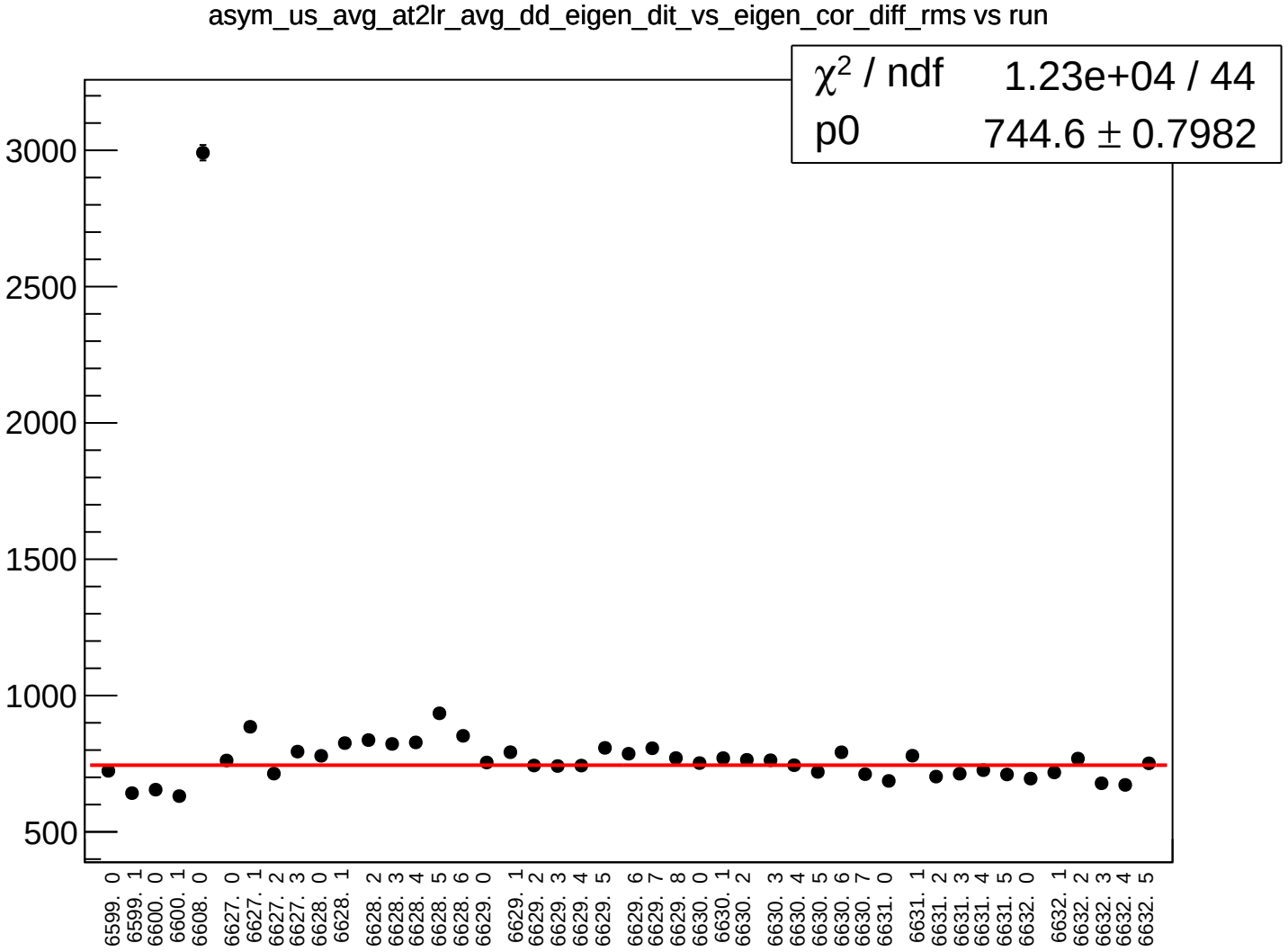

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 36.08 / 44
p0 −0.0001081 ± 4.095e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 30.5
Std Dev 27.72
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.02174
Std Dev 0.8952
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

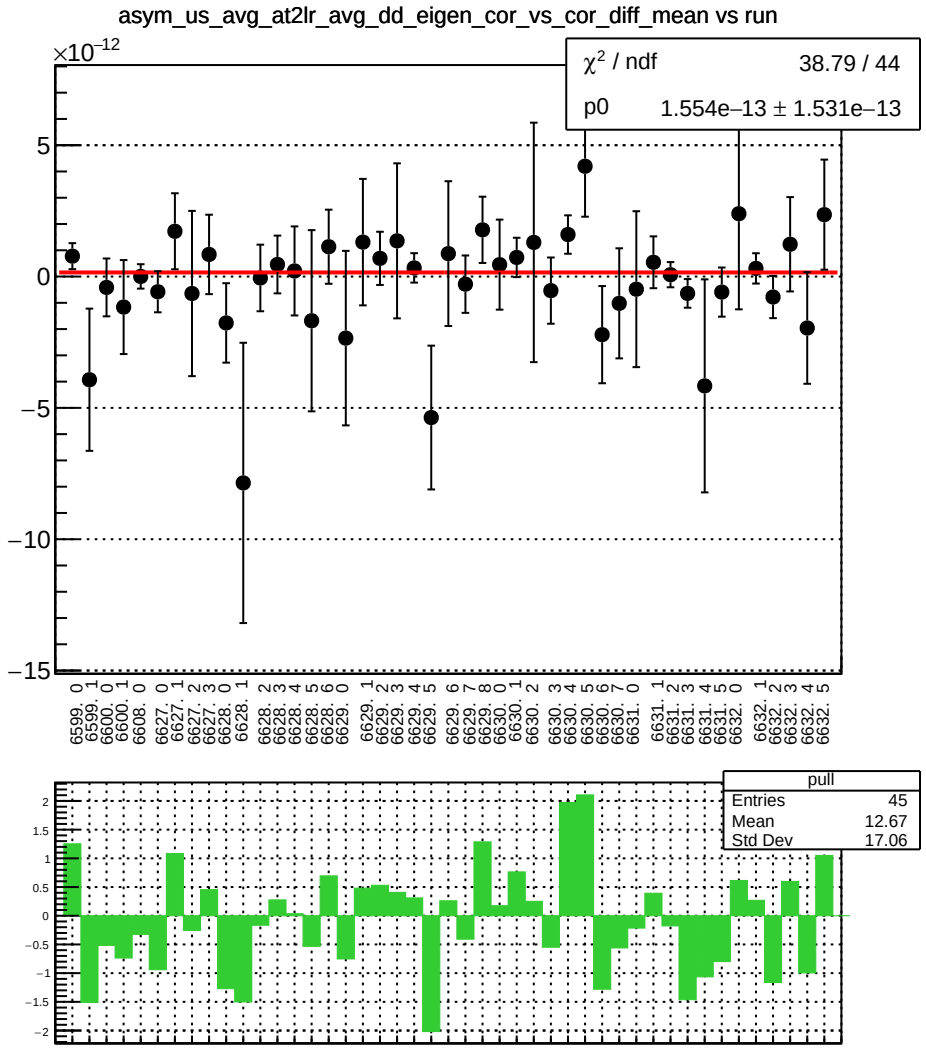

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.67e+05 / 44
p0 0.02272 ± 2.896e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

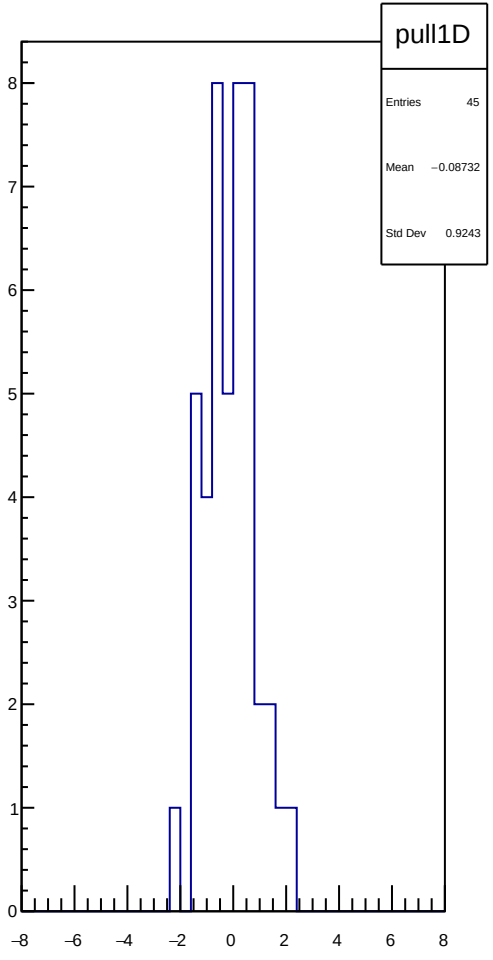

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65.26 / 44
p0 −1.763 ± 1.129
pull
Entries 45
Mean −35.97
Std Dev 0
pull1D
Entries 45
Mean 0.02856
Std Dev 1.204

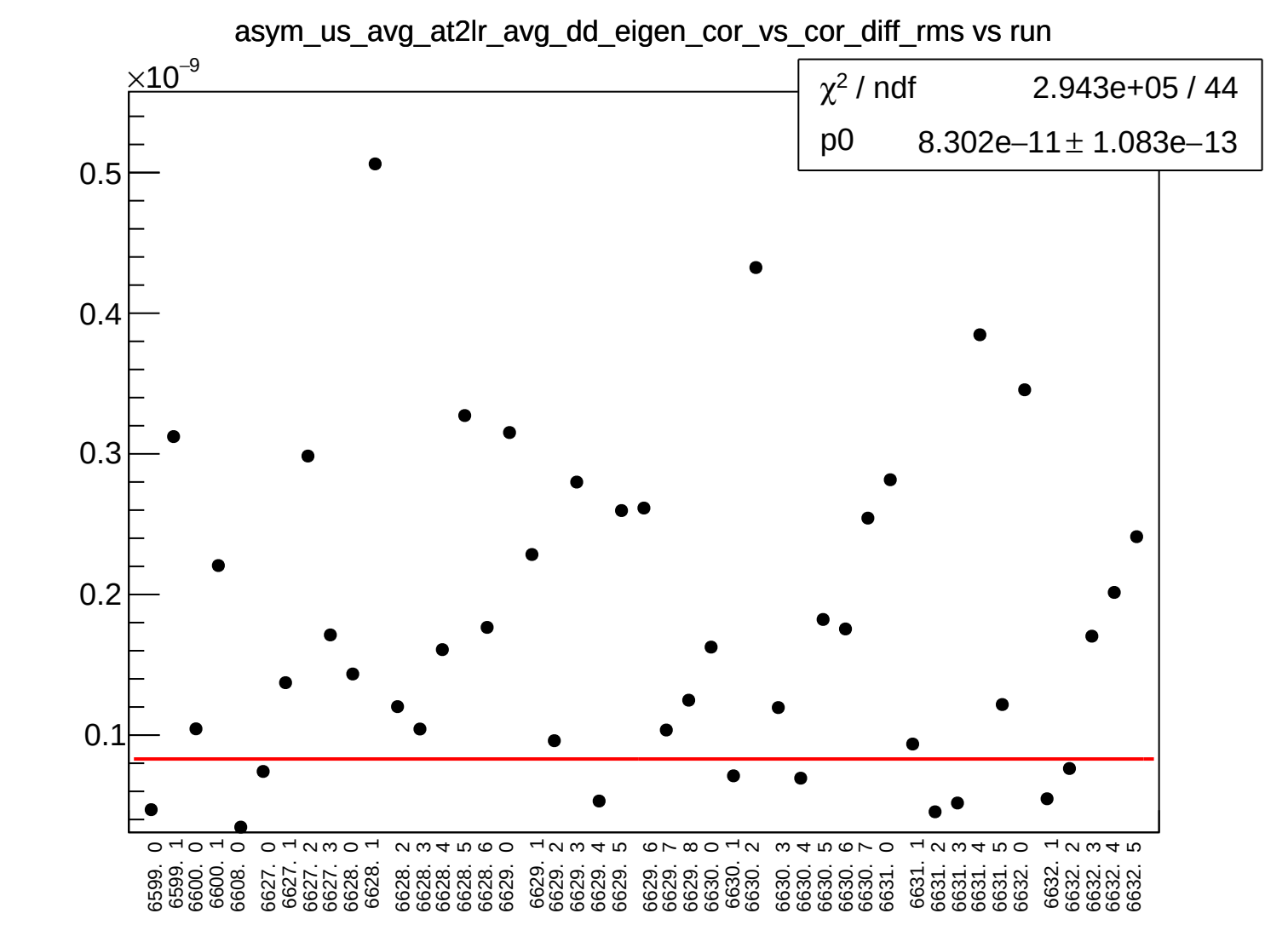

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.23e+04 / 44
p0 744.6 ± 0.7982
3000
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

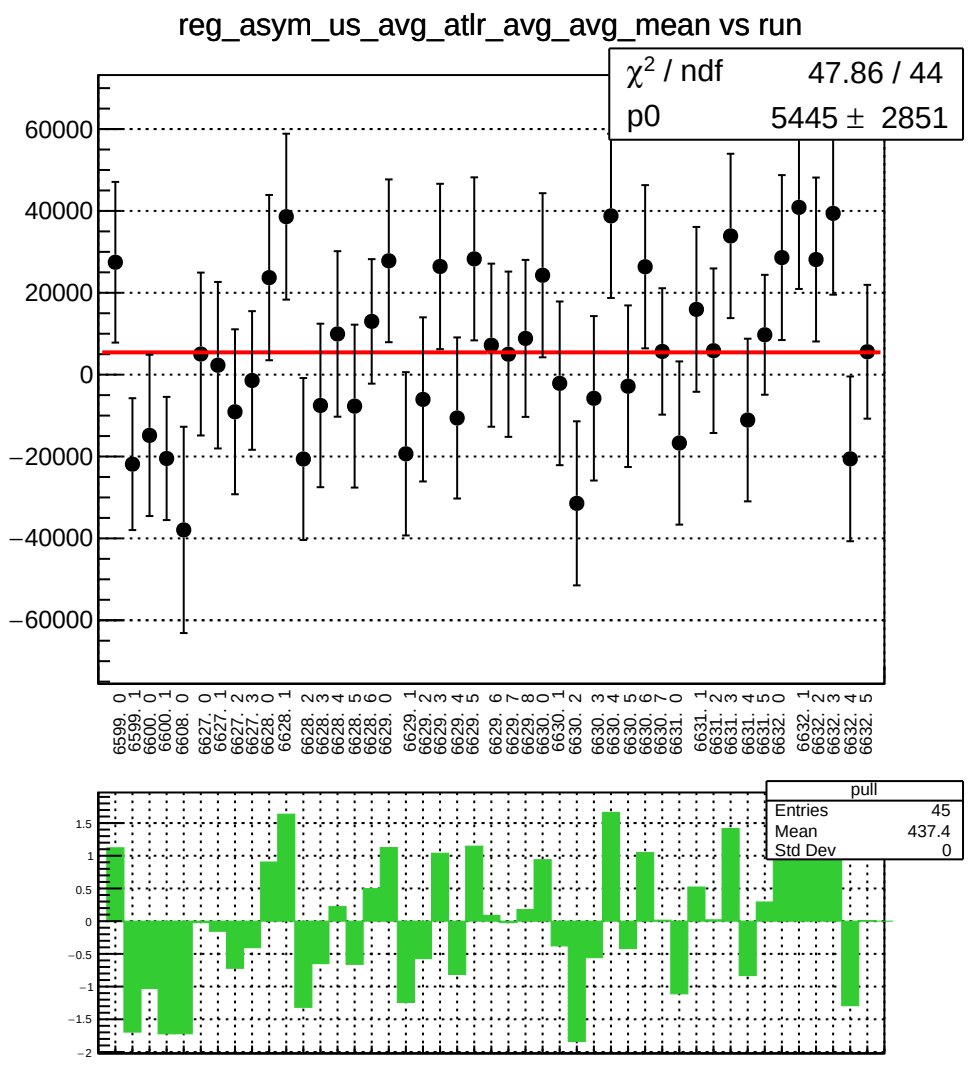

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.26 / 44
p0 −1.763 ± 1.129
pull
Entries 45
Mean −35.97
Std Dev 0
pull1D
Entries 45
Mean 0.02856
Std Dev 1.204

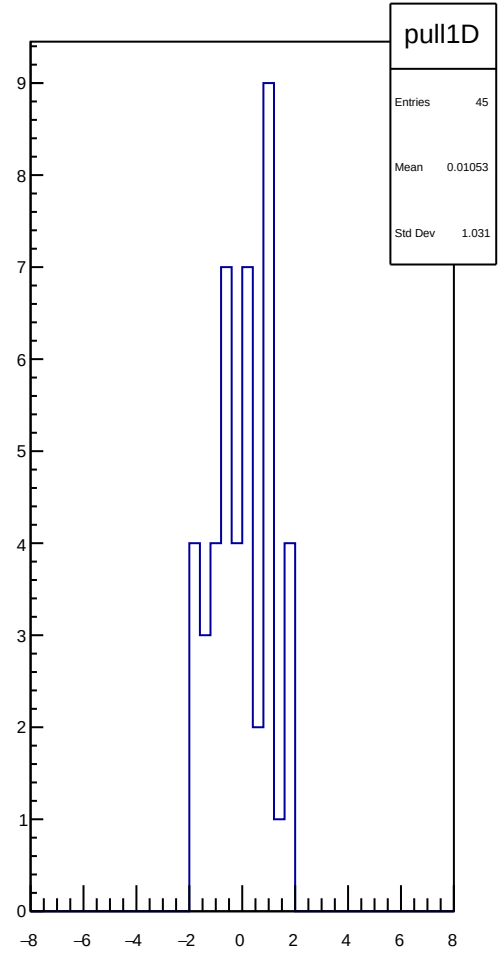

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.23e+04 / 44
p0 744.6 ± 0.7982
3000
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

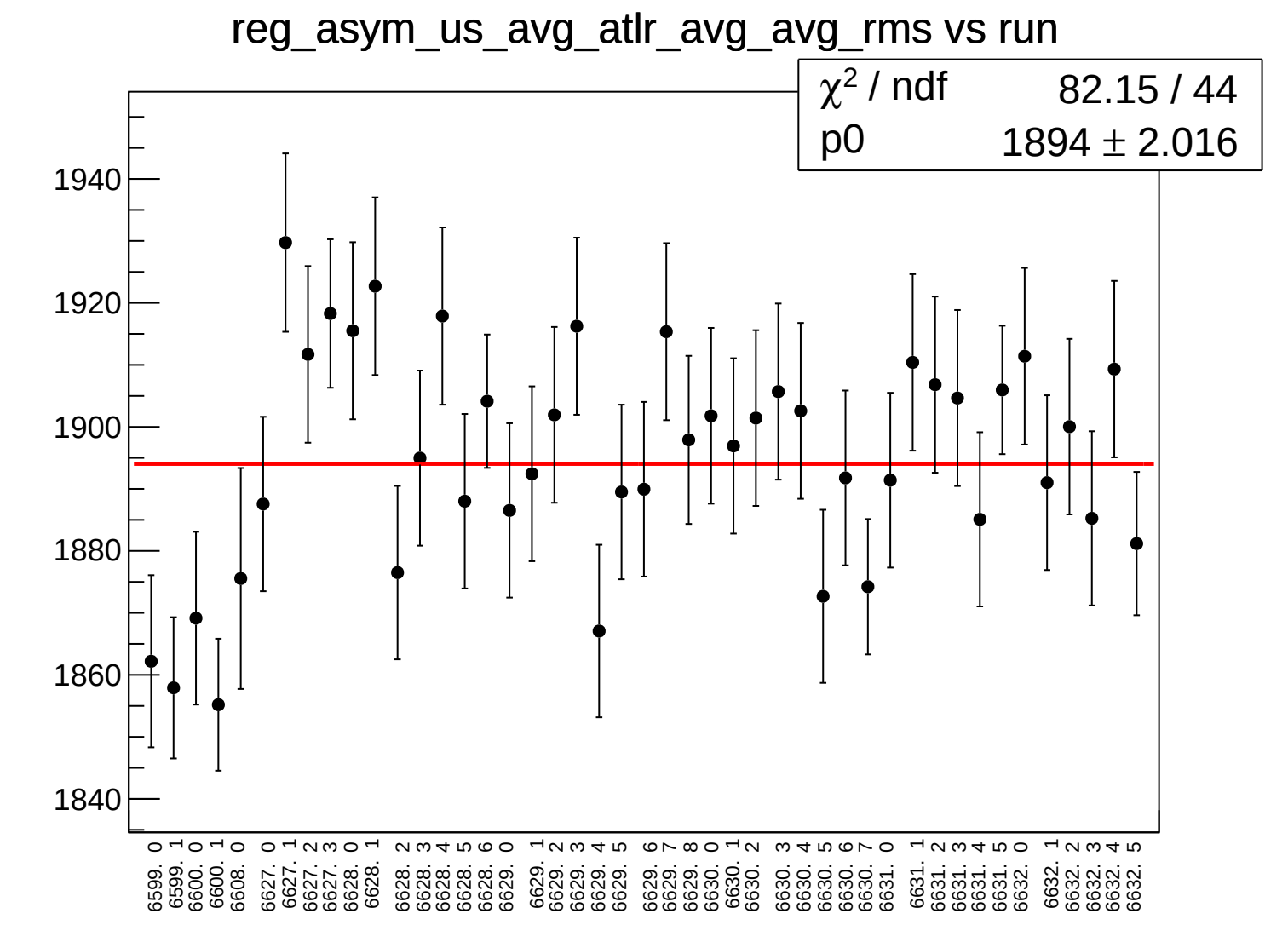

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 38.79 / 44
p0 1.554e−13 ± 1.531e−13
5
0
−5
−10
−15
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 12.67
Std Dev 17.06
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

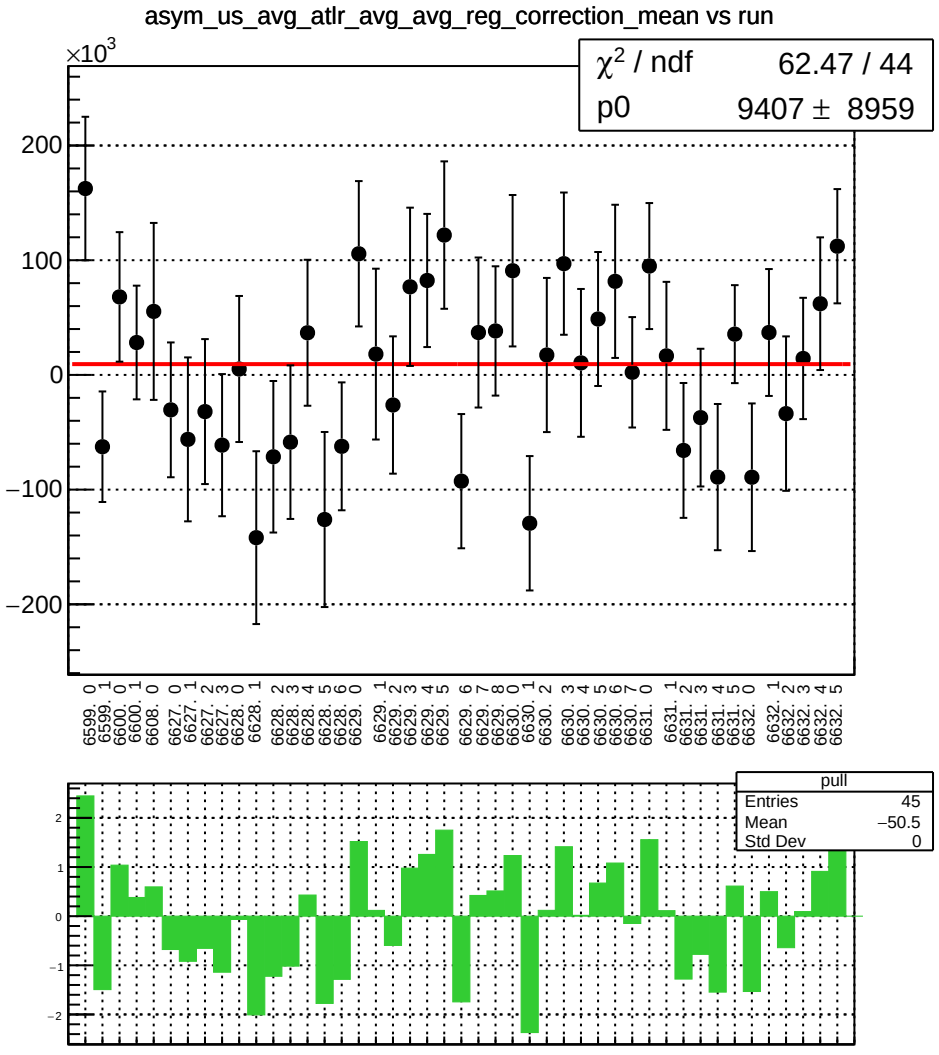

pull1D
Entries 45
Mean −0.08732
Std Dev 0.9243
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

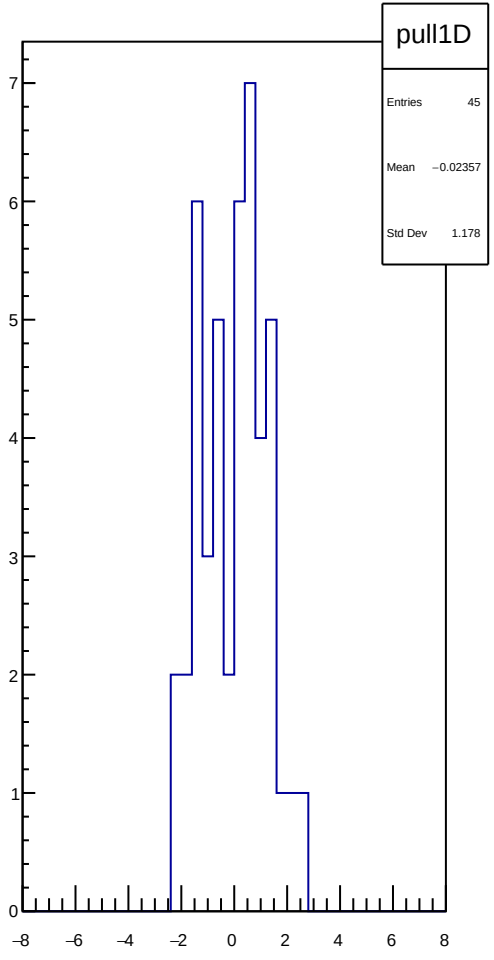

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.943e+05 / 44
p0 8.302e−11 ± 1.083e−13
0.5
0.4
0.3
0.2
0.1
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

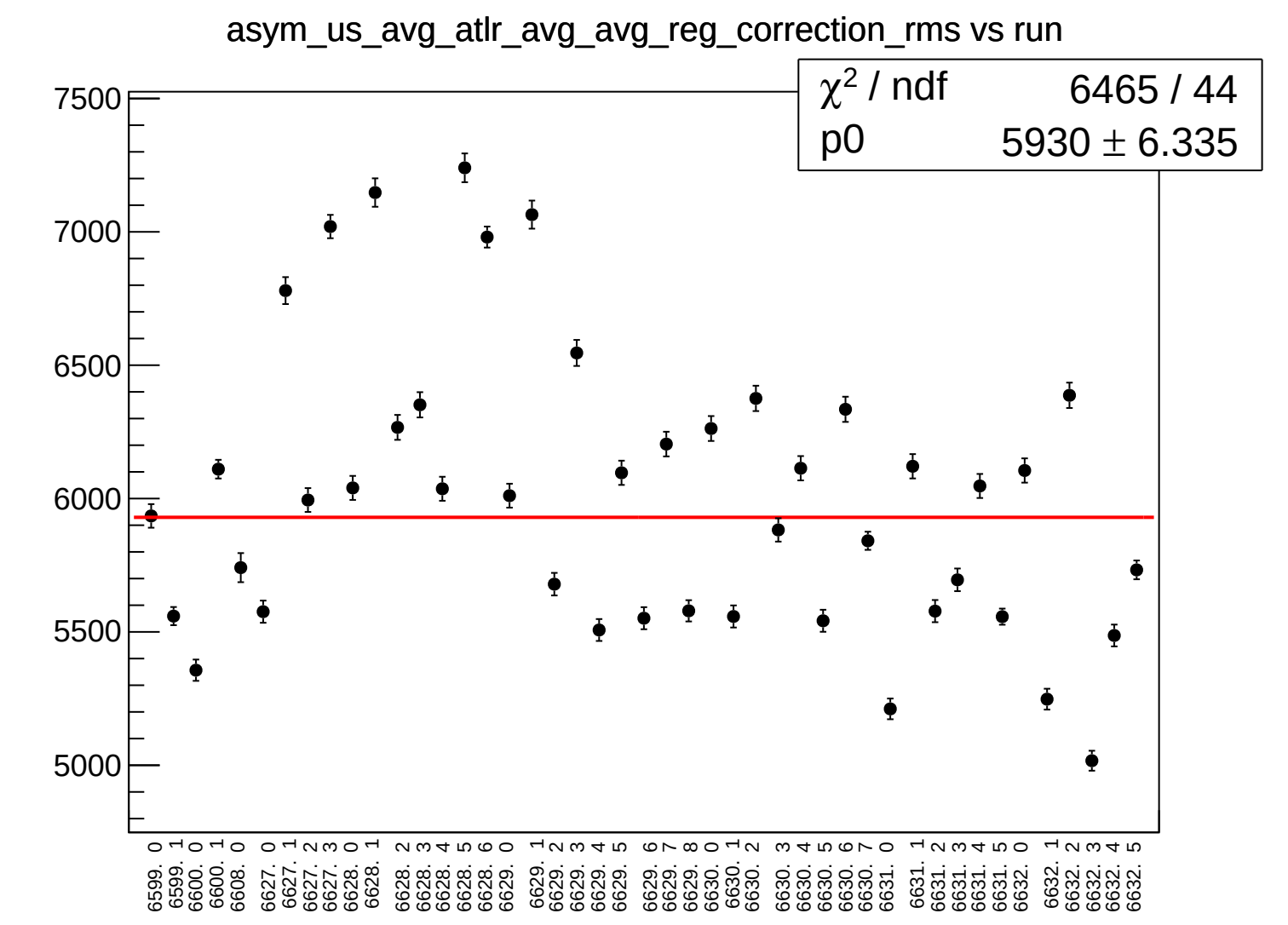

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 47.86 / 44
p0 5445 ± 2851
pull
Entries 45
Mean 437.4
Std Dev 0

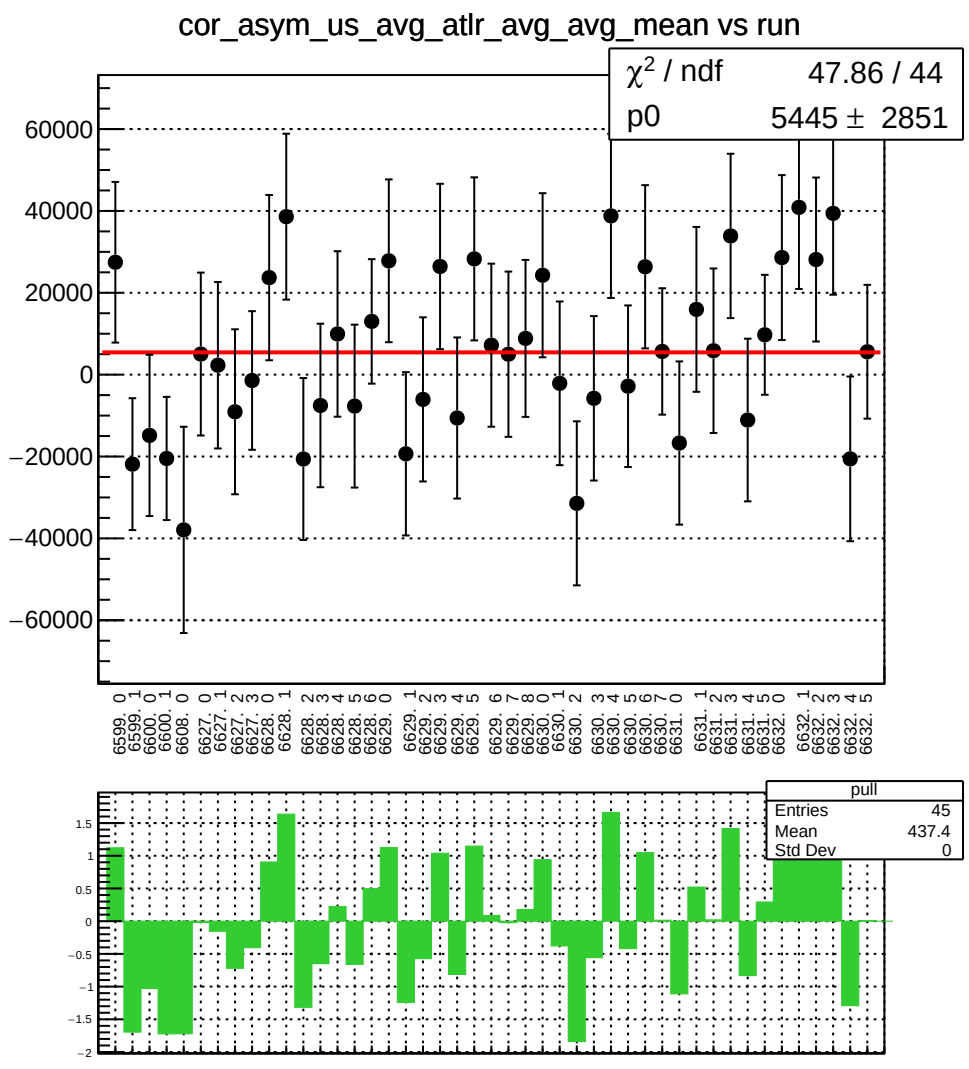

pull1D
Entries 45
Mean 0.01053
Std Dev 1.031

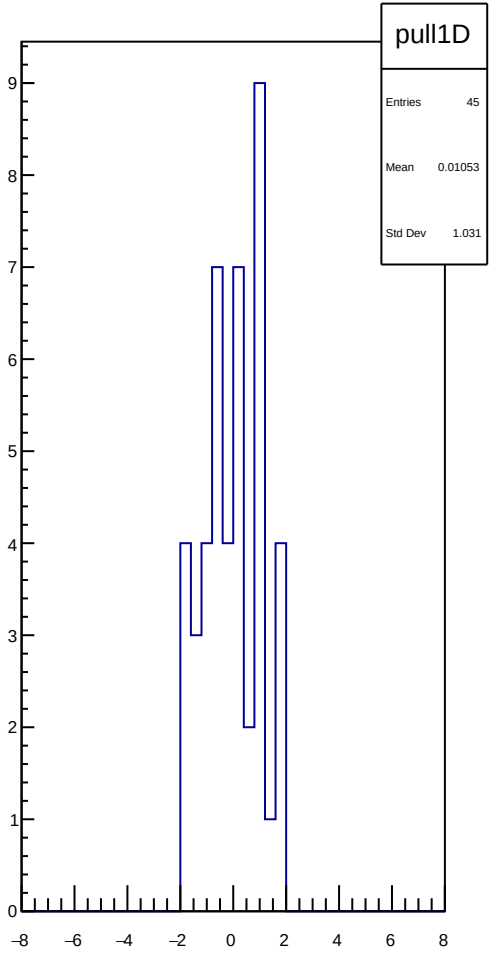

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 82.15 / 44
p0 1894 ± 2.016
1940
1920
1900
1880
1860
1840
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

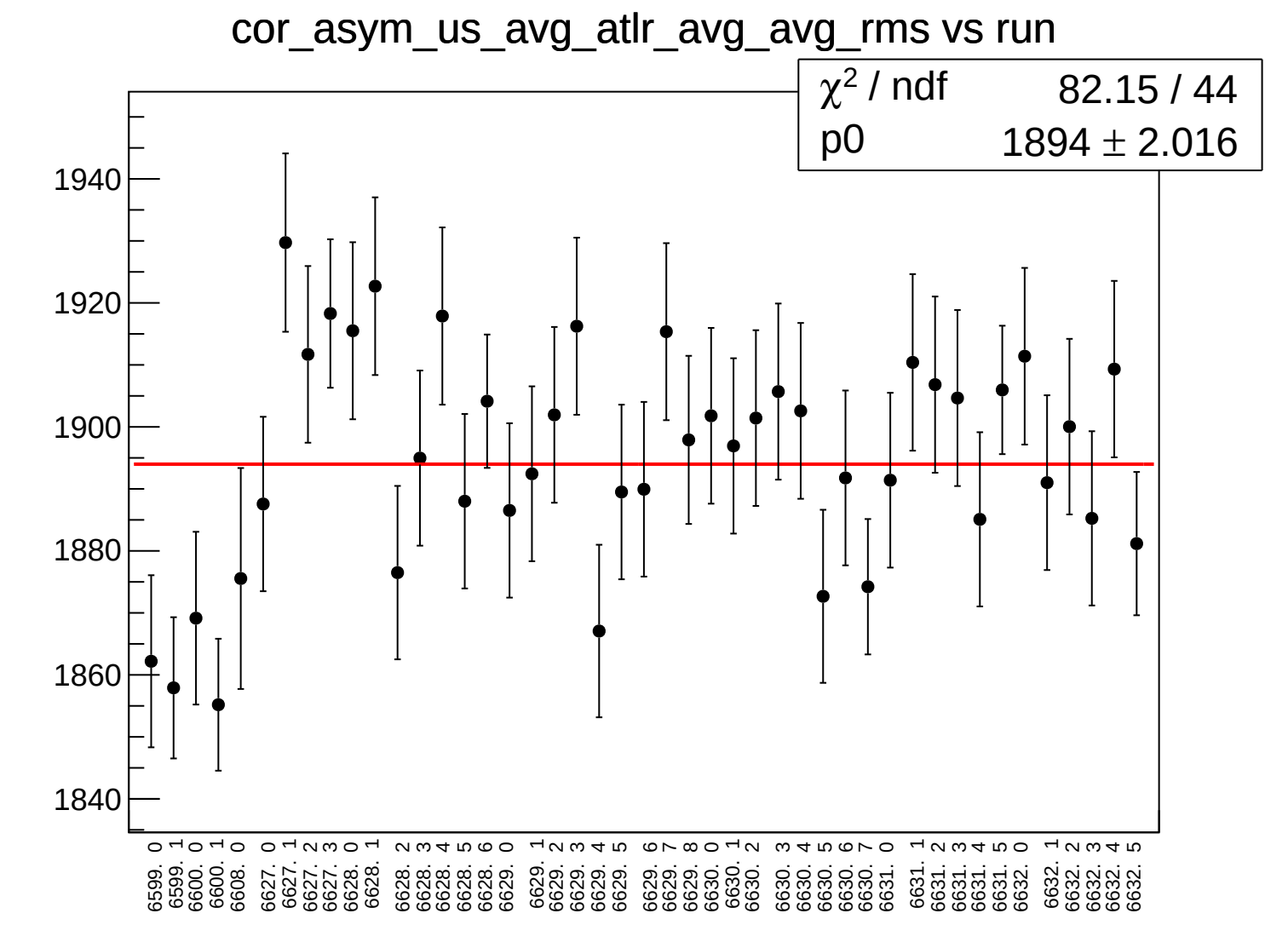

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 62.47 / 44
p0 9407 ± 8959
200
100
0
−100
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −50.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.02357
Std Dev 1.178
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 6465 / 44
p0 5930 ± 6.335
7500
7000
6500
6000
5500
5000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 47.86 / 44
p0 5445 ± 2851
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 437.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.01053
Std Dev 1.031
9
8
7
6
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 82.15 / 44
p0 1894 ± 2.016
1940
1920
1900
1880
1860
1840
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 3
6631. 4
6631. 5
6632. 0
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6632. 2
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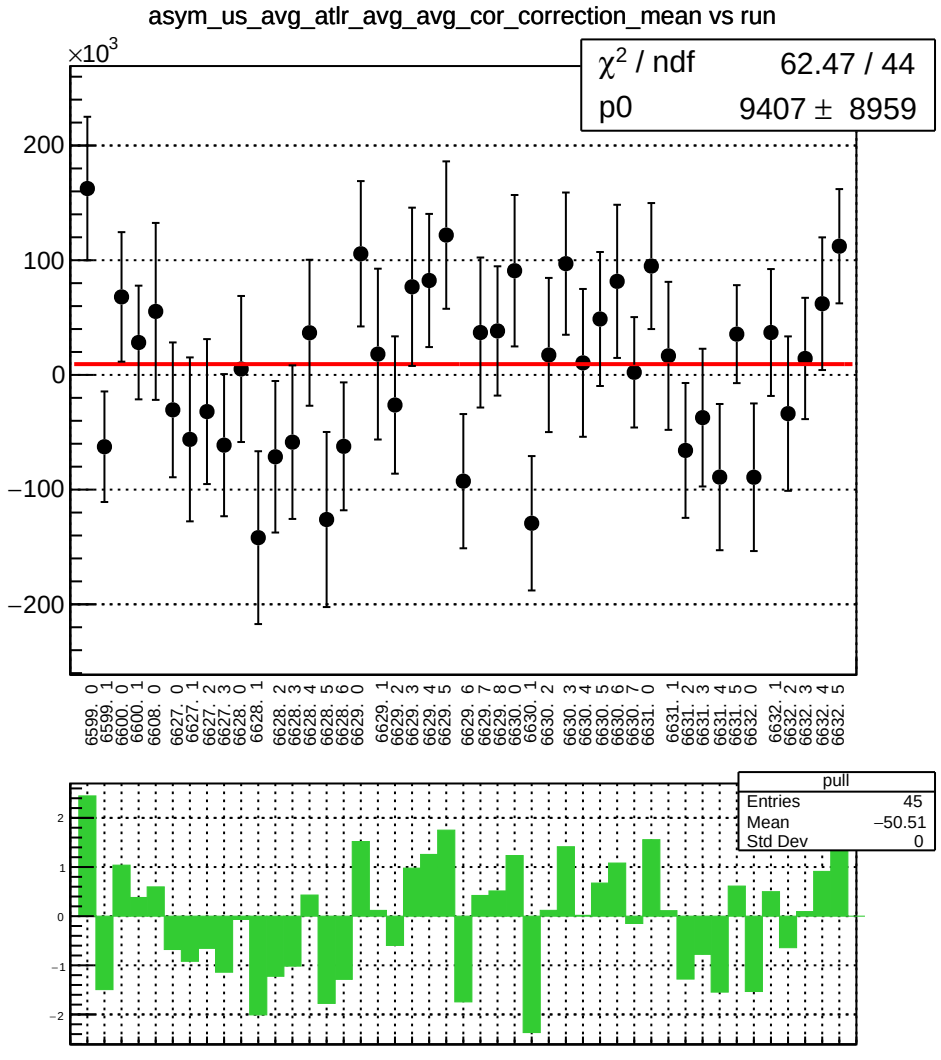
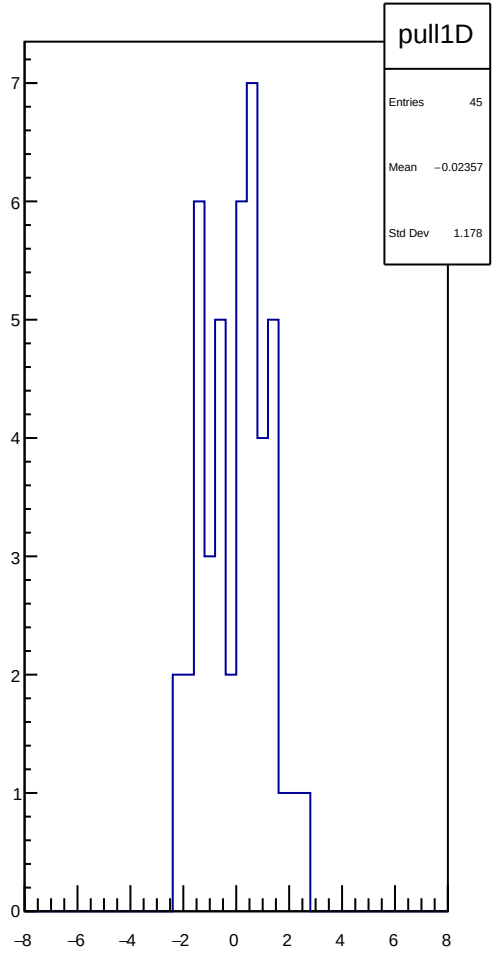
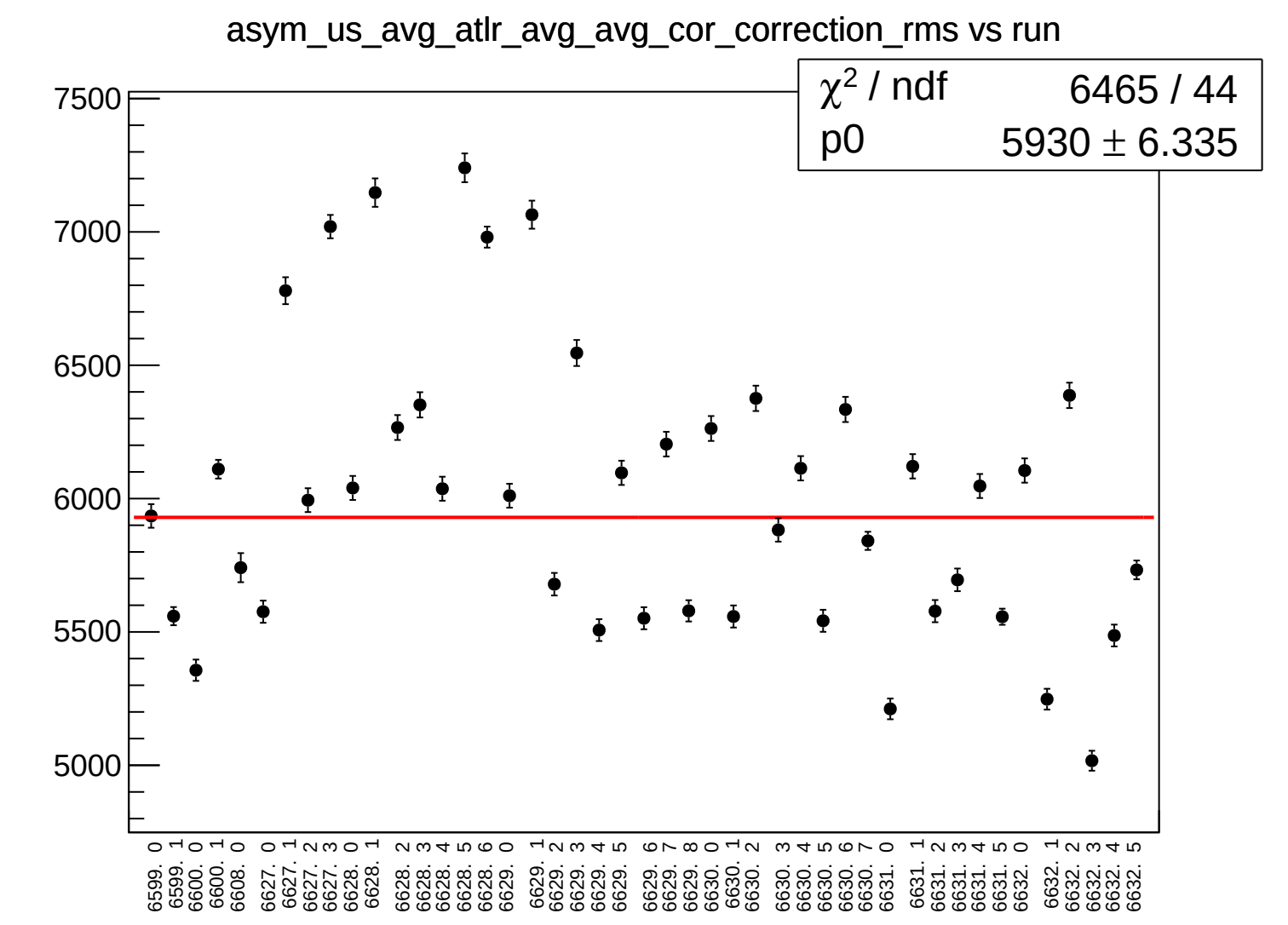
6632. 4
6632. 5


asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 62.47 / 44
p0 9407 ± 8959
200
100
0
−100
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −50.51
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.02357
Std Dev 1.178
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 6465 / 44
p0 5930 ± 6.335
7500
7000
6500
6000
5500
5000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6629. 0
6629. 1
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6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6632. 0
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6632. 2
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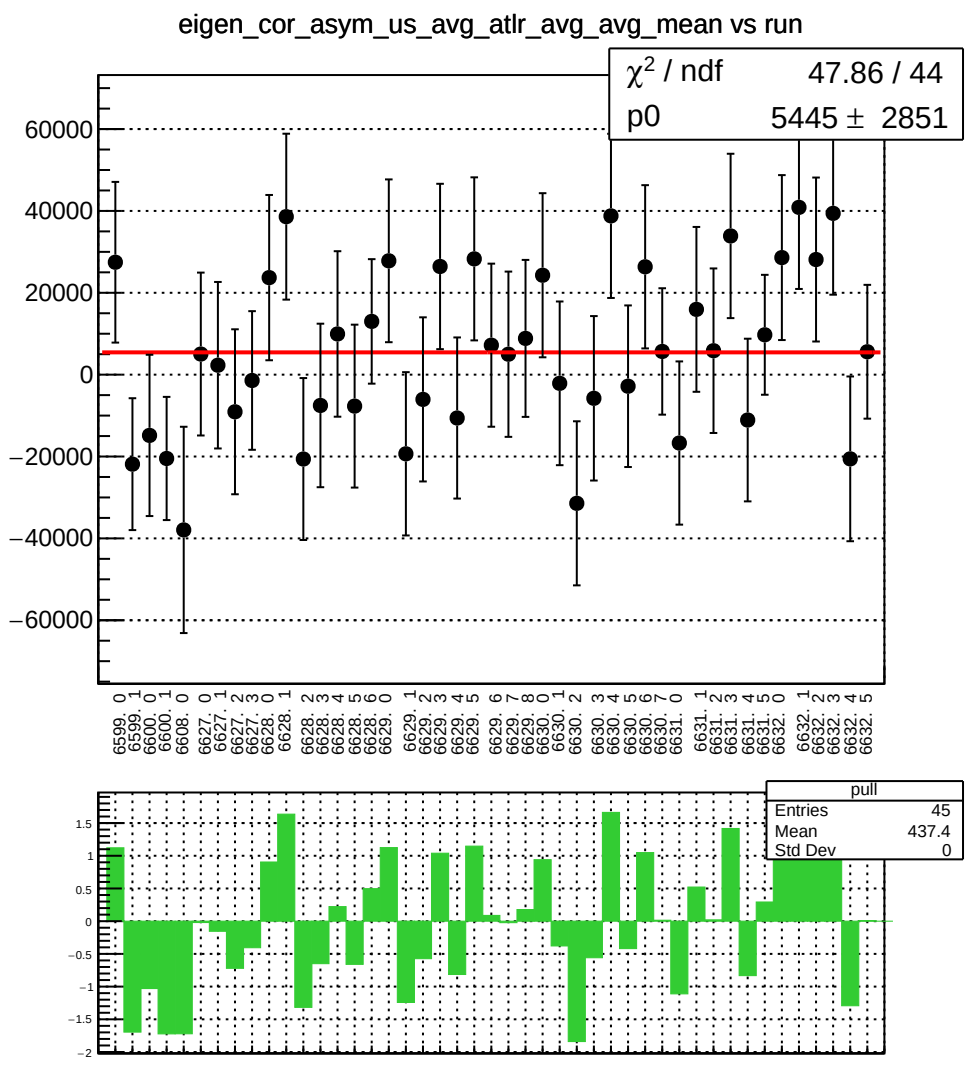
6632. 4
6632. 5


eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 47.86 / 44
p0 5445 ± 2851
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 4
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6629. 6
6629. 7
6629. 8
6630. 0
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6630. 2
6630. 3
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6630. 5
6630. 6
6630. 7
6631. 0
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
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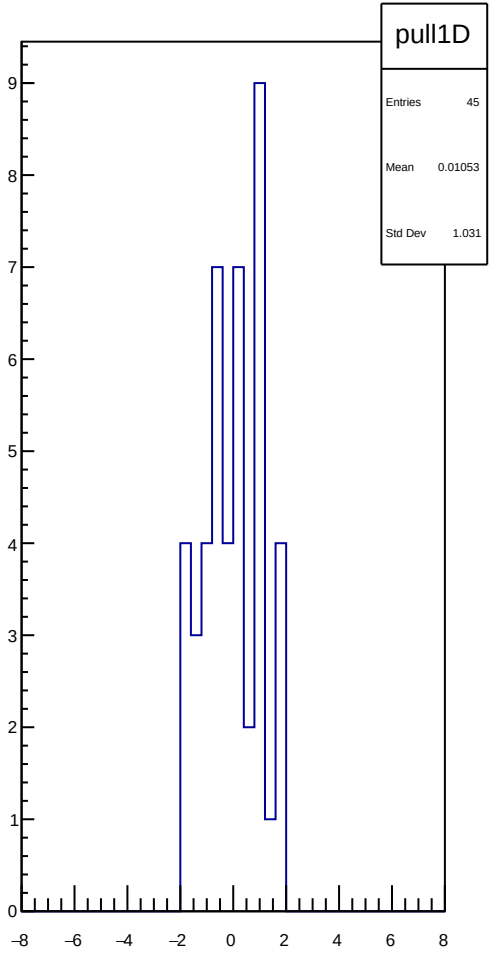
6632. 4
6632. 5
pull
Entries 45
Mean 437.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.01053
Std Dev 1.031
9
8
7
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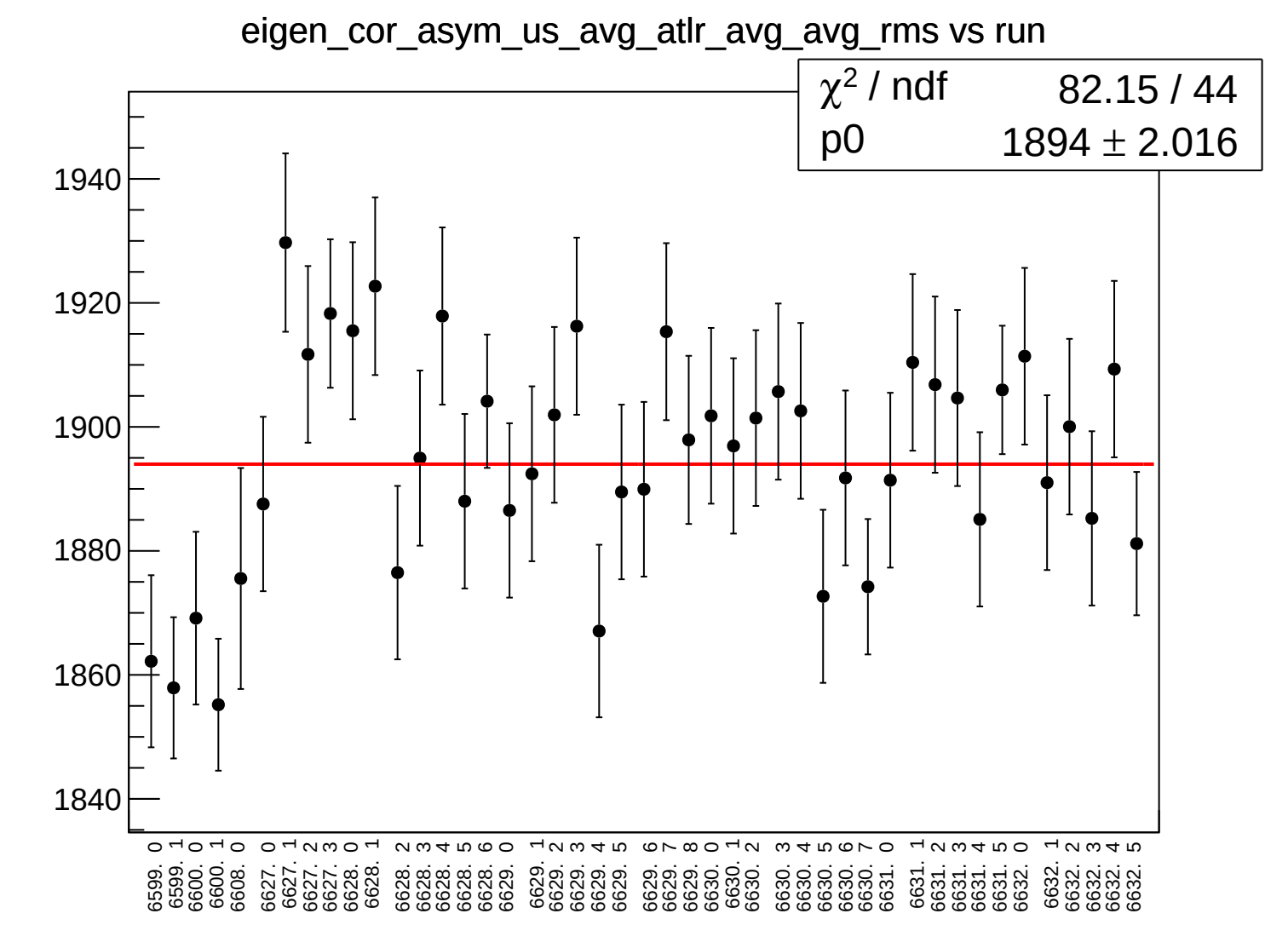
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 82.15 / 44
p0 1894 ± 2.016
1940
1920
1900
1880
1860
1840
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
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6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
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6631. 1
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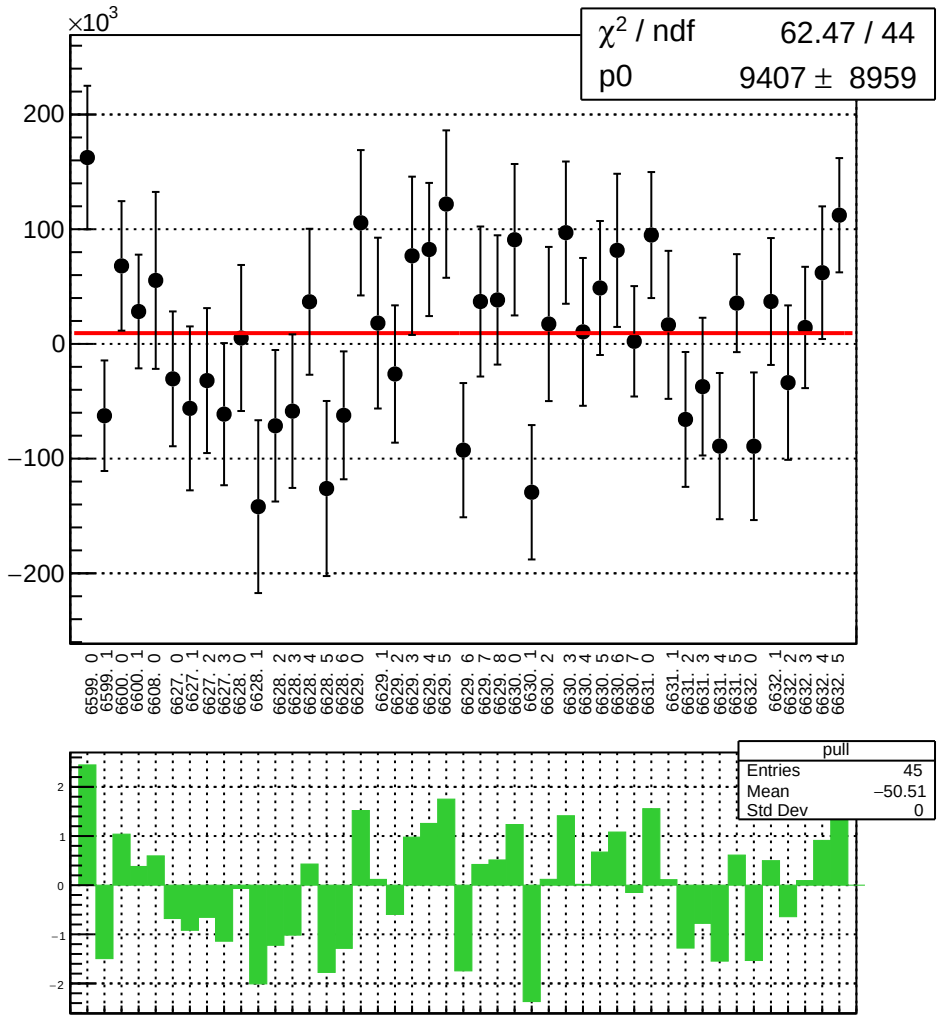
6632. 5


asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 62.47 / 44
p0 9407 ± 8959
200
100
0
−100
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
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6628. 5
6628. 6
6629. 0
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6630. 0
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6630. 2
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6630. 6
6630. 7
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6631. 1
6631. 2
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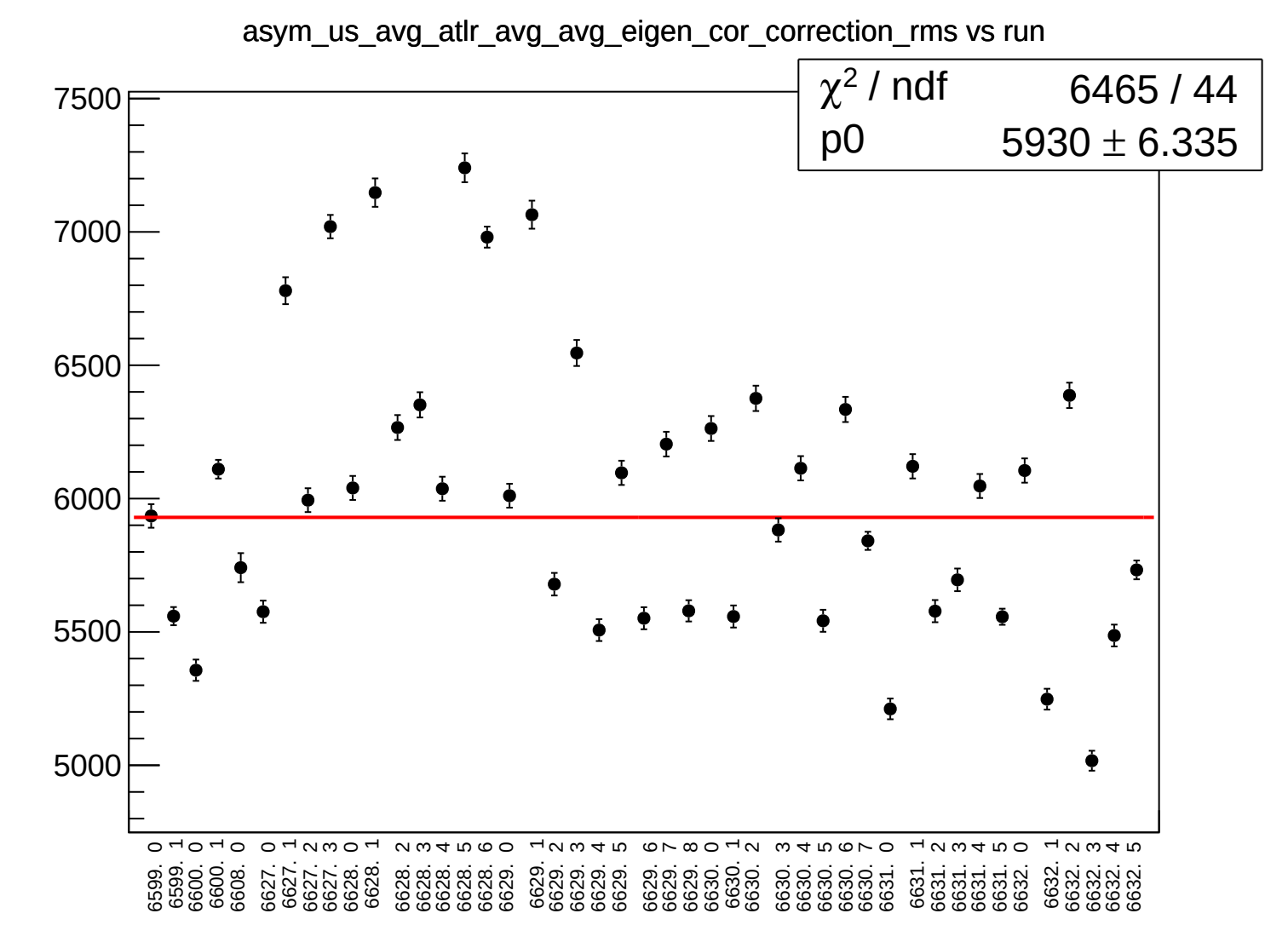
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −50.51
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02357
Std Dev 1.178
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 6465 / 44
p0 5930 ± 6.335
7500
7000
6500
6000
5500
5000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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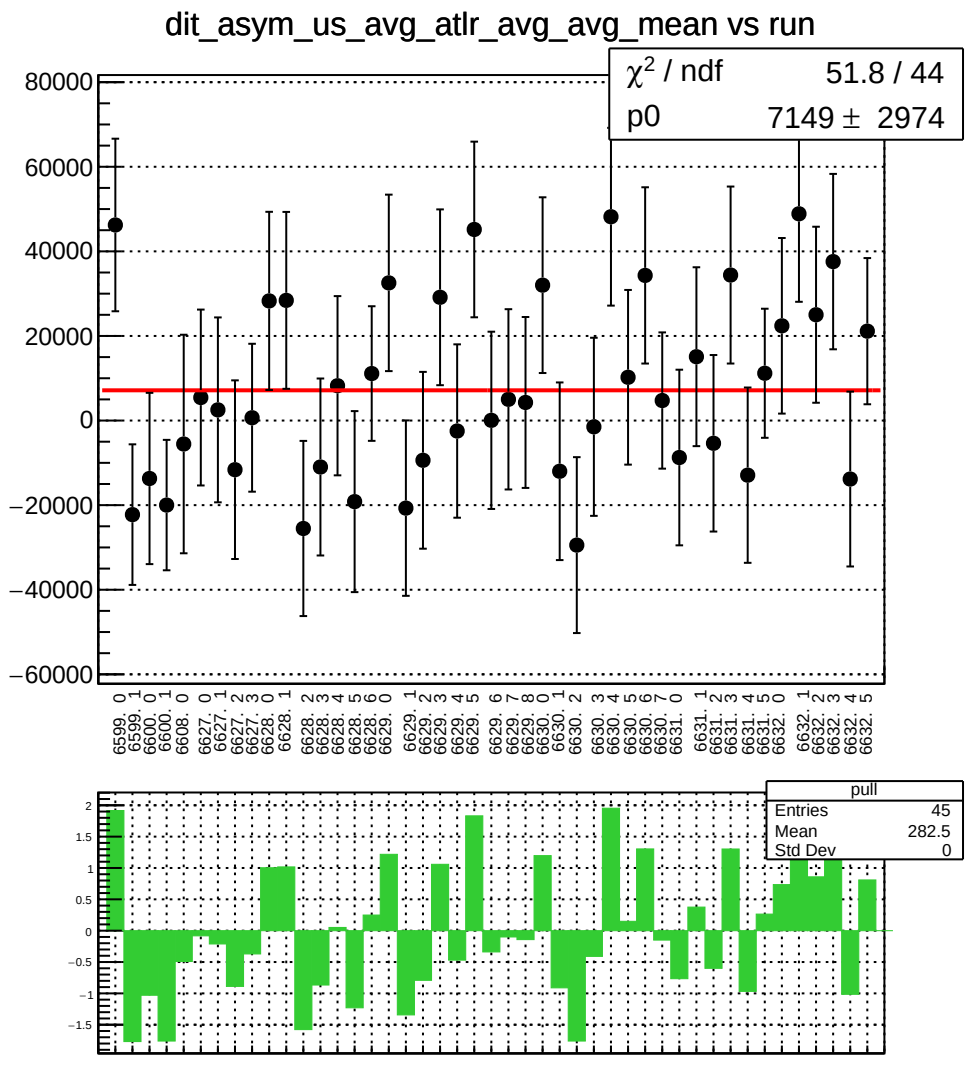
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 51.8 / 44
p0 7149 ± 2974
80000
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 5
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6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
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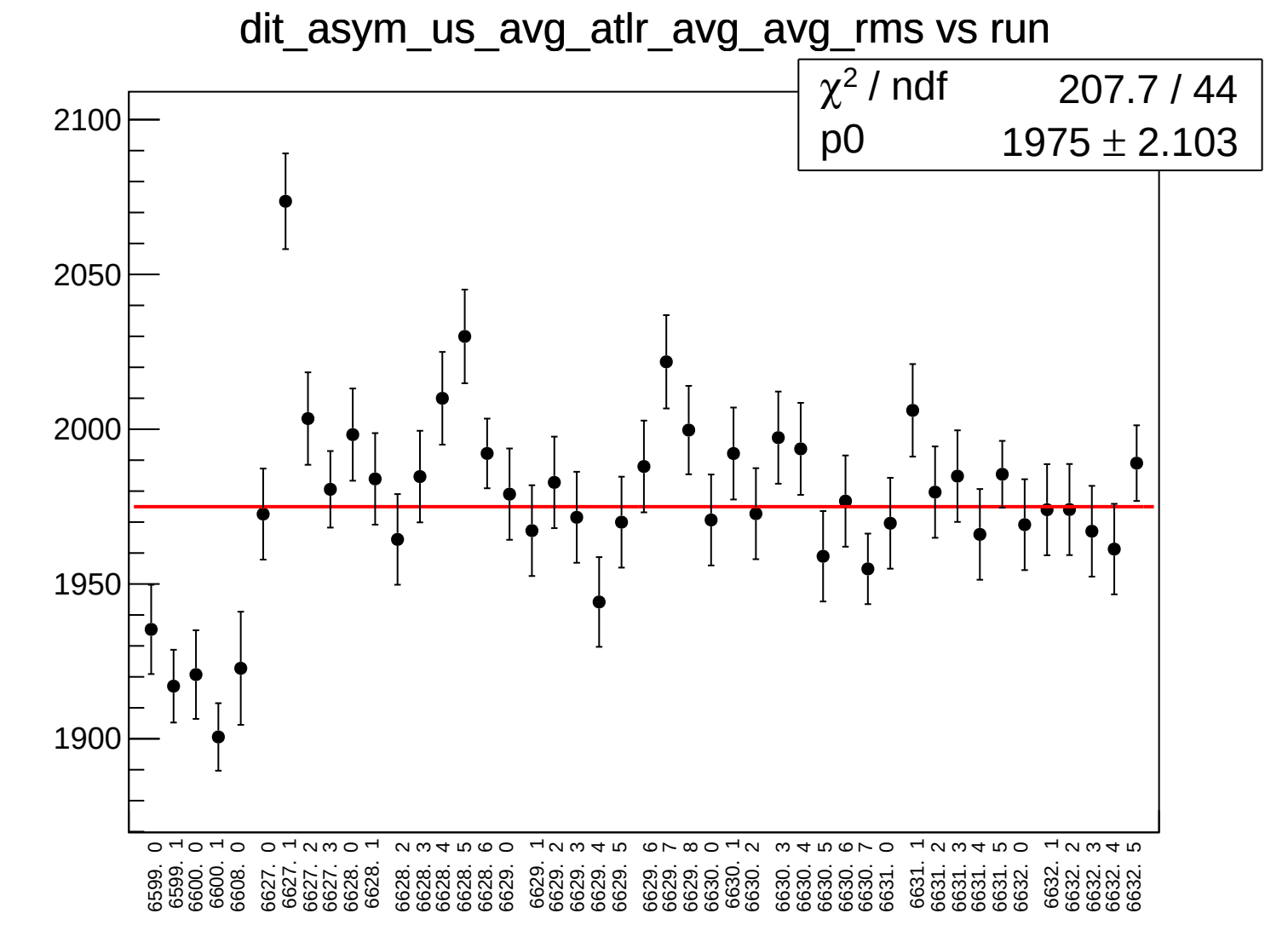
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 282.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.01611
Std Dev 1.073
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 207.7 / 44
p0 1975 ± 2.103
2100
2050
2000
1950
1900
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6628. 5
6628. 6
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6629. 2
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6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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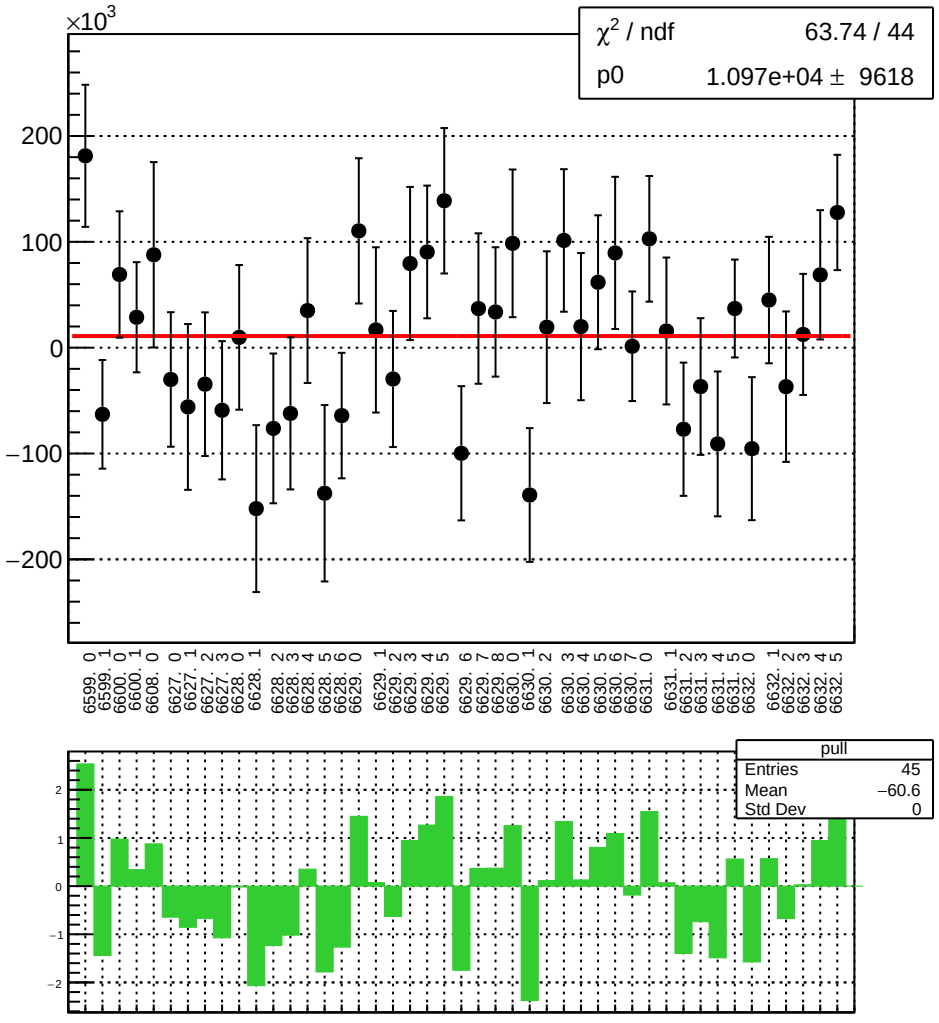
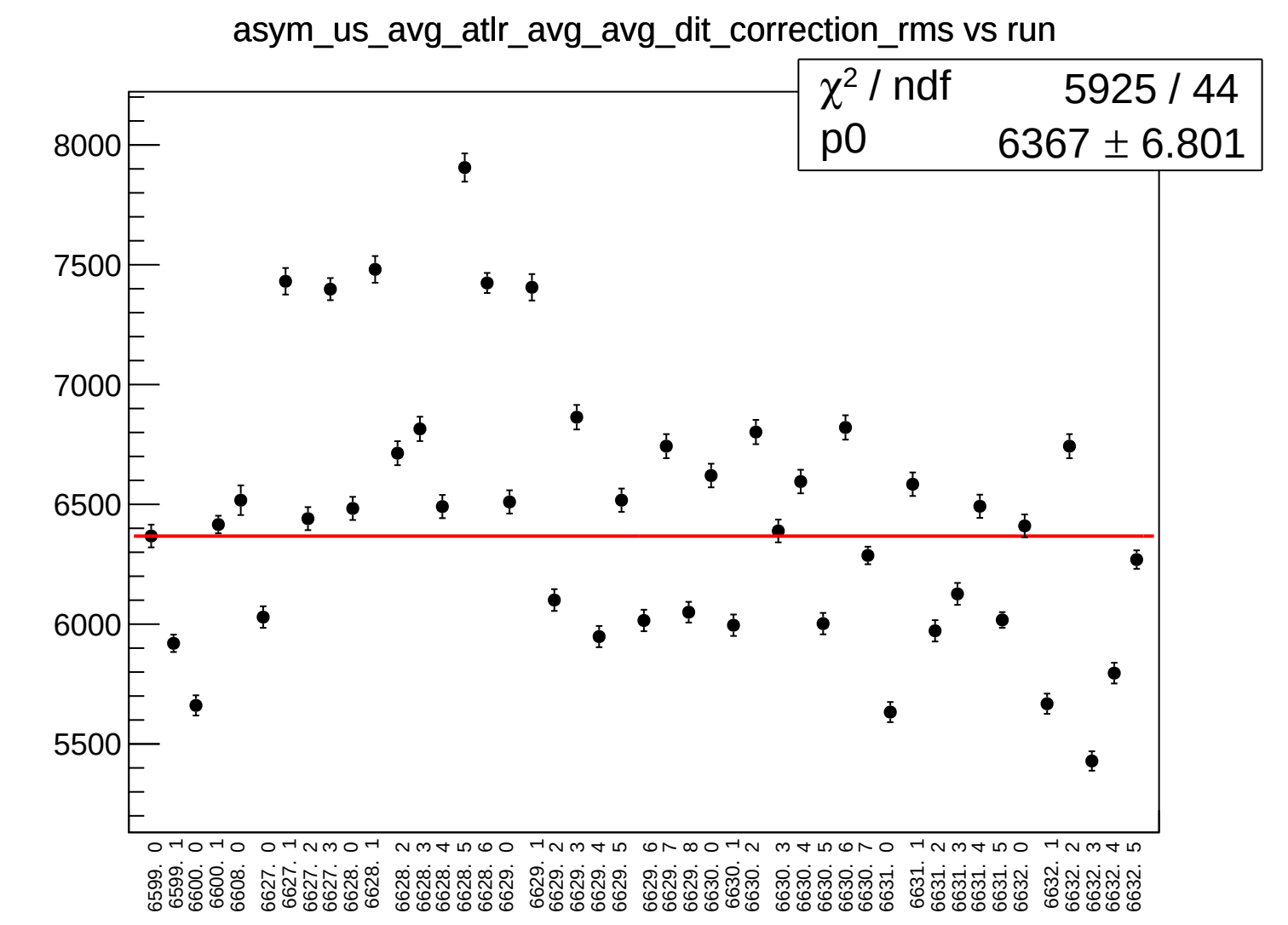
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 63.74 / 44
p0 1.097e+04 ± 9618
200
100
0
−100
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −60.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01897
Std Dev 1.19
9
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 5925 / 44
p0 6367 ± 6.801
8000
7500
7000
6500
6000
5500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
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6630. 0
6630. 1
6630. 2
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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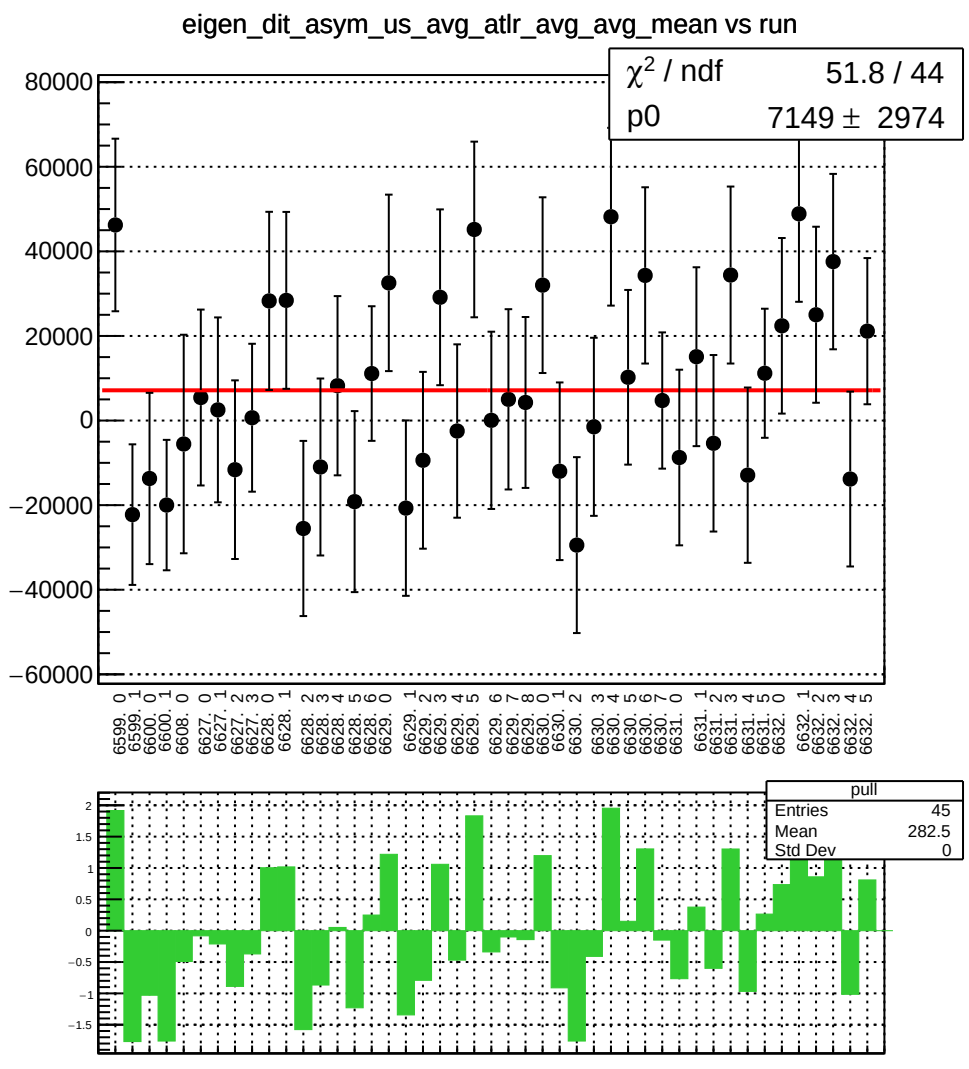
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 51.8 / 44
p0 7149 ± 2974
80000
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
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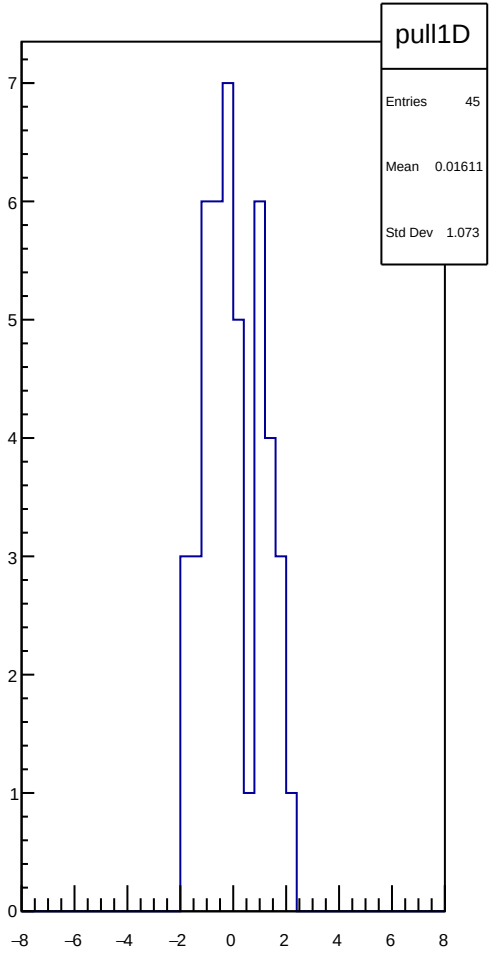
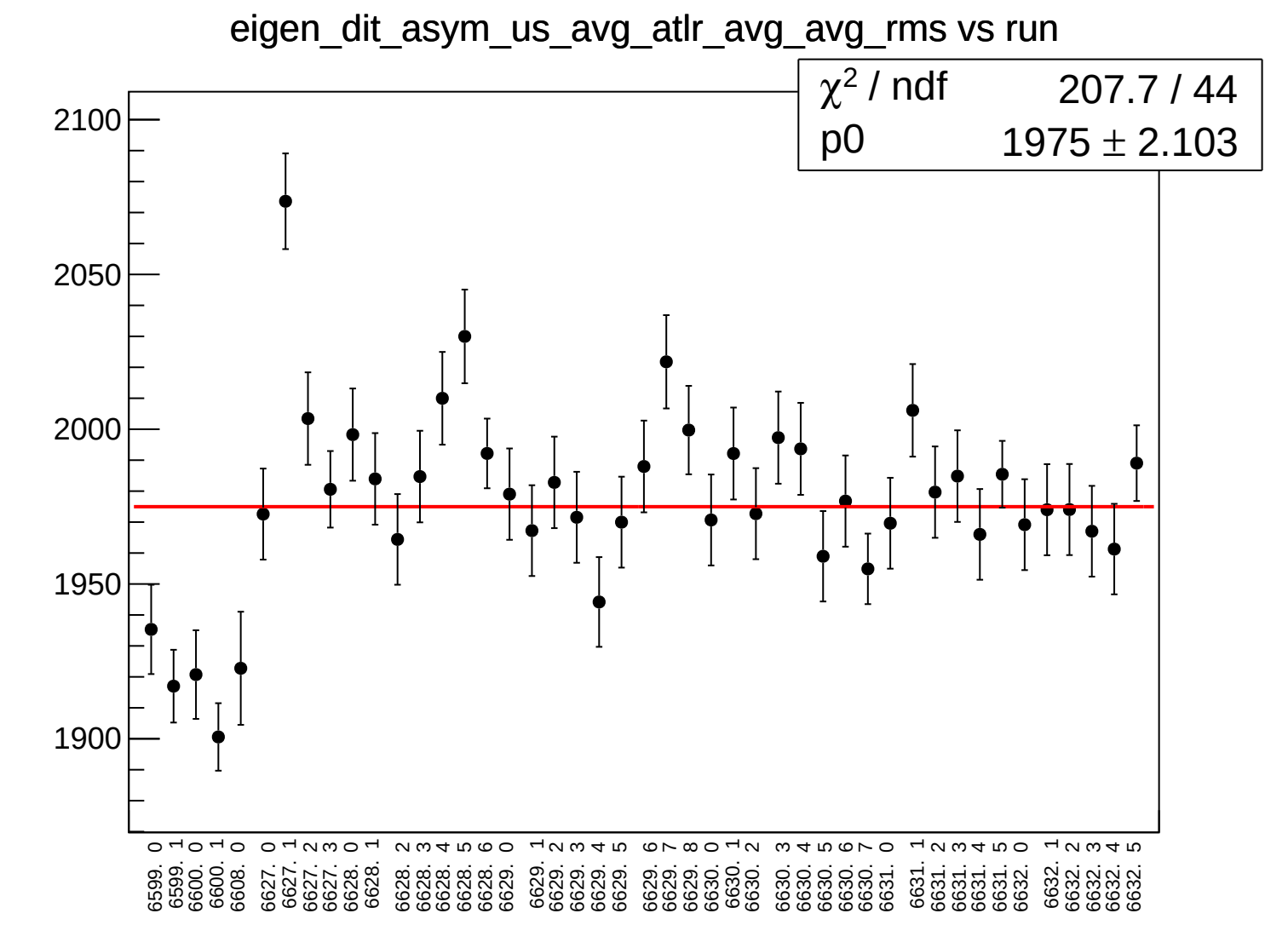
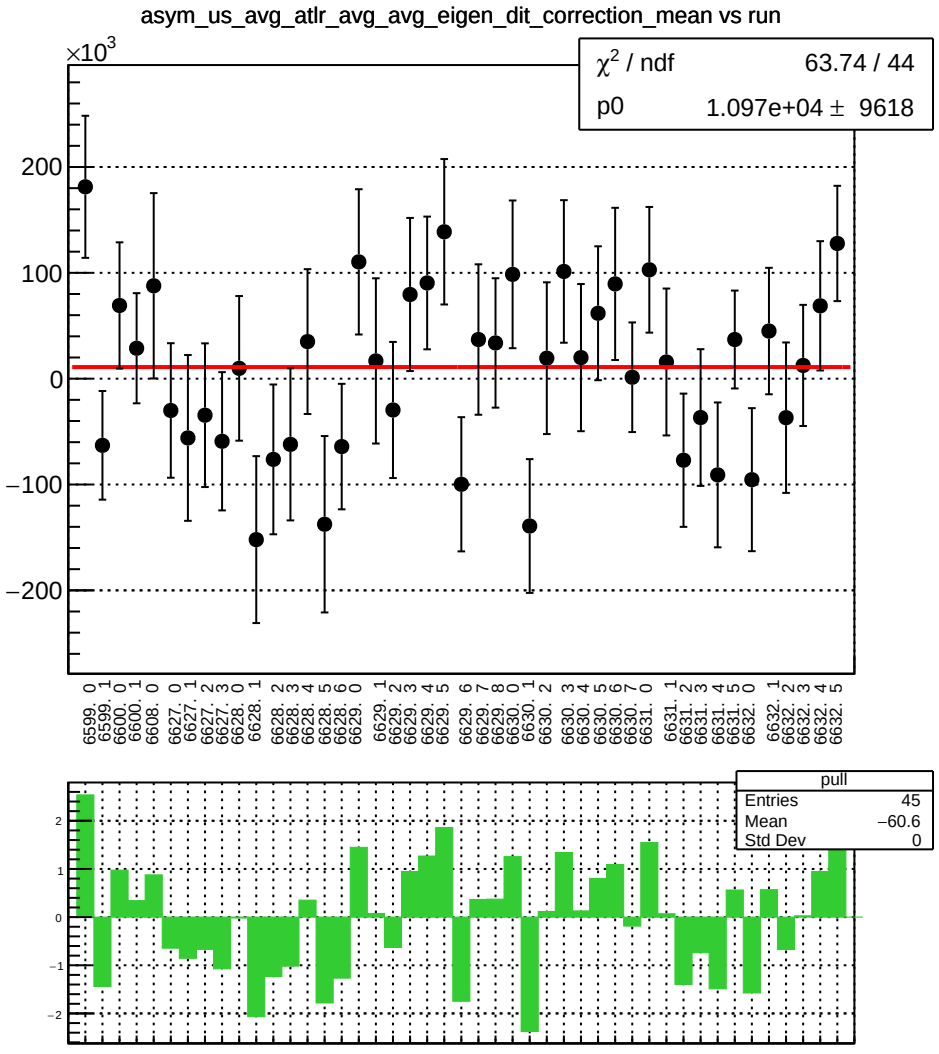
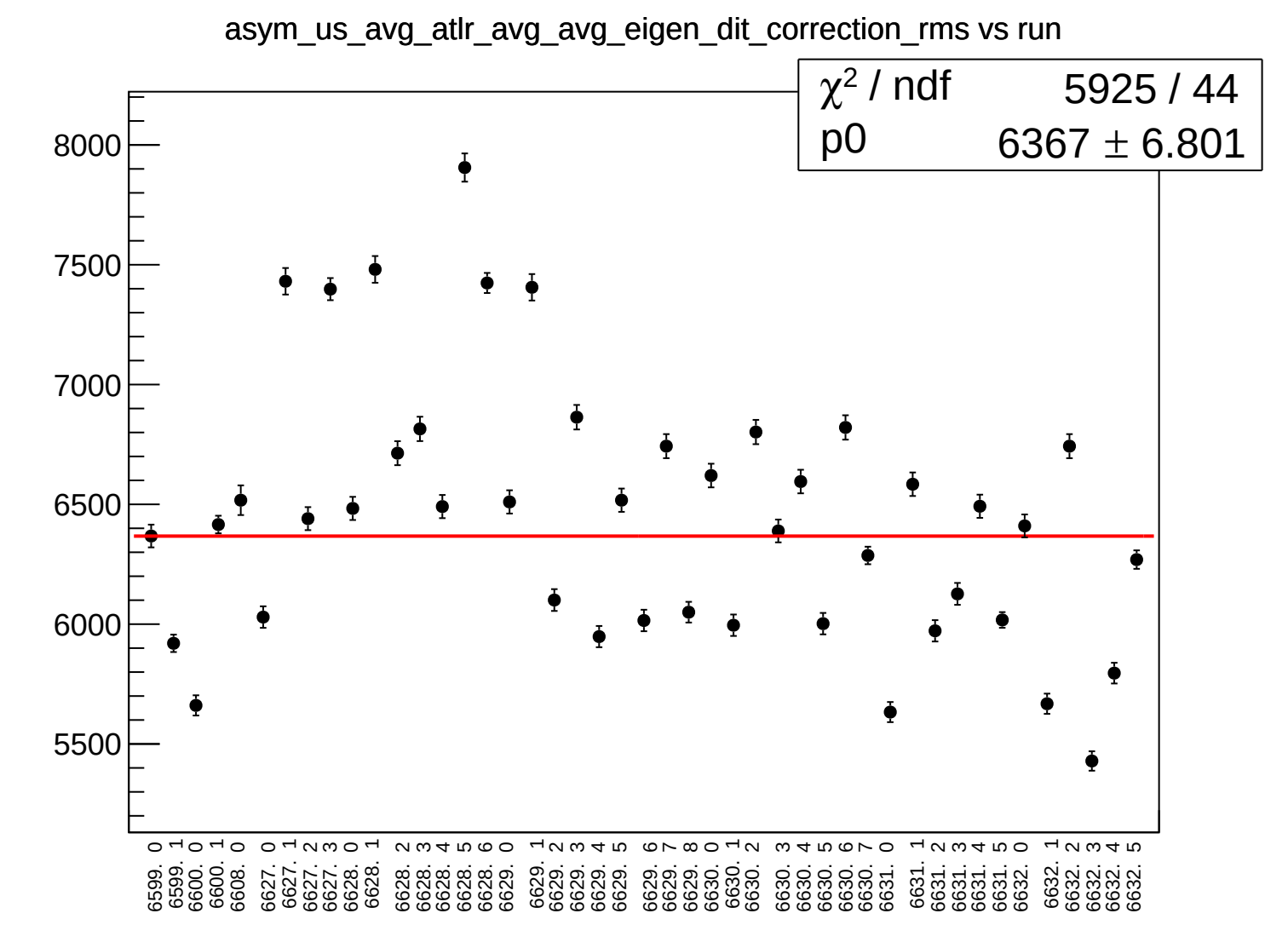
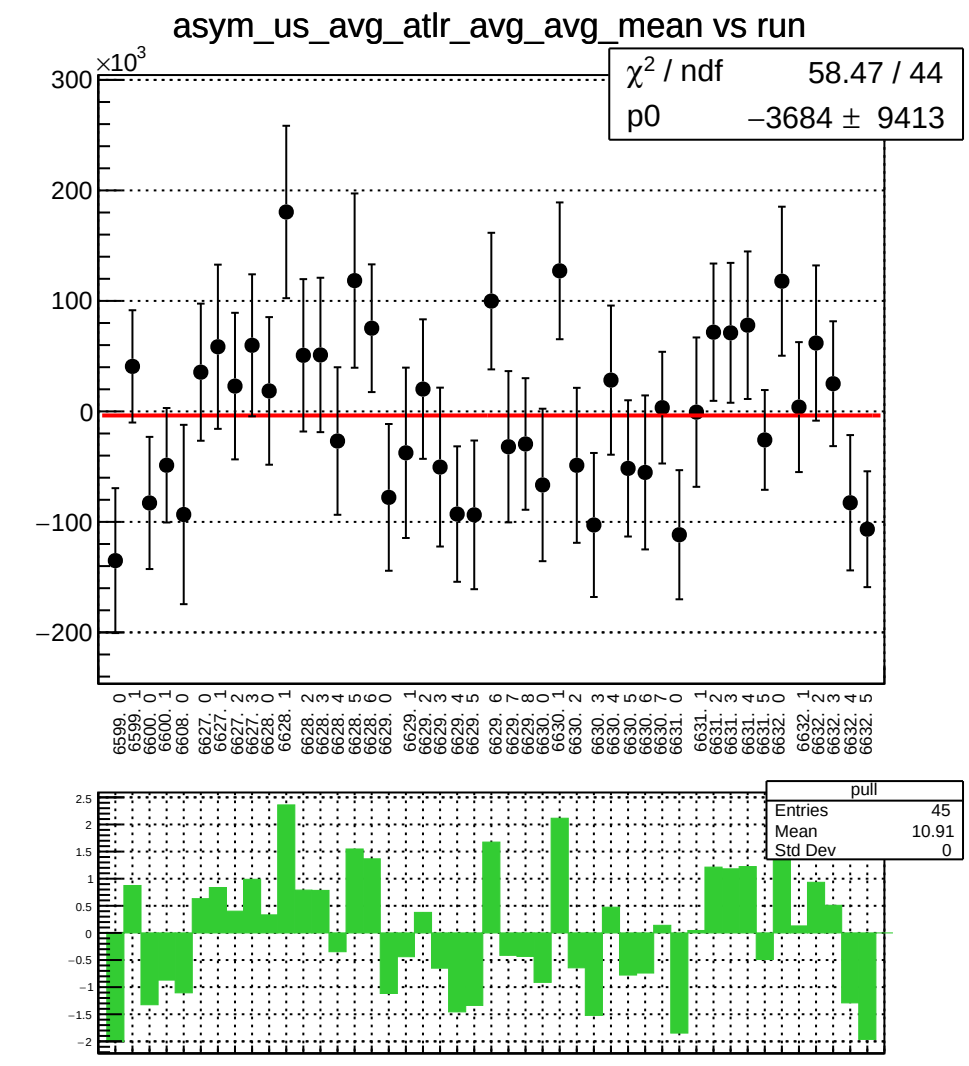
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 282.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

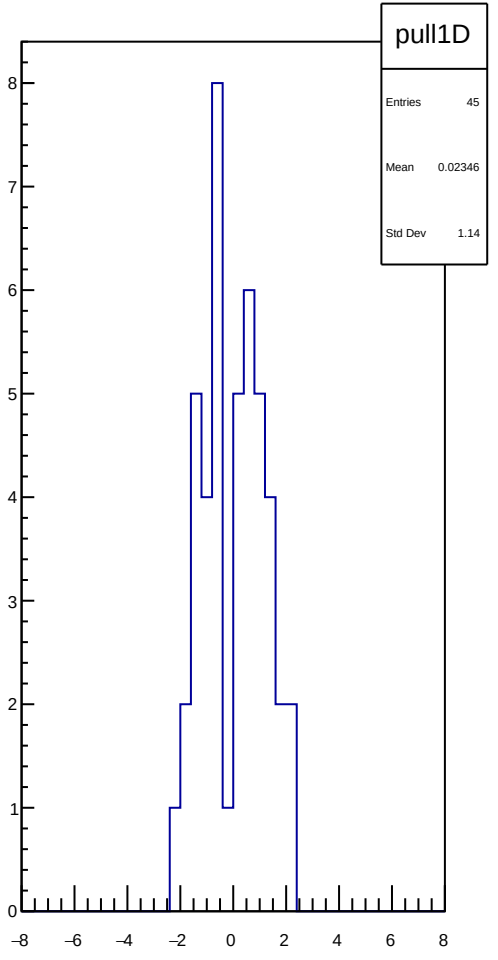

pull1D
Entries 45
Mean 0.01611
Std Dev 1.073
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

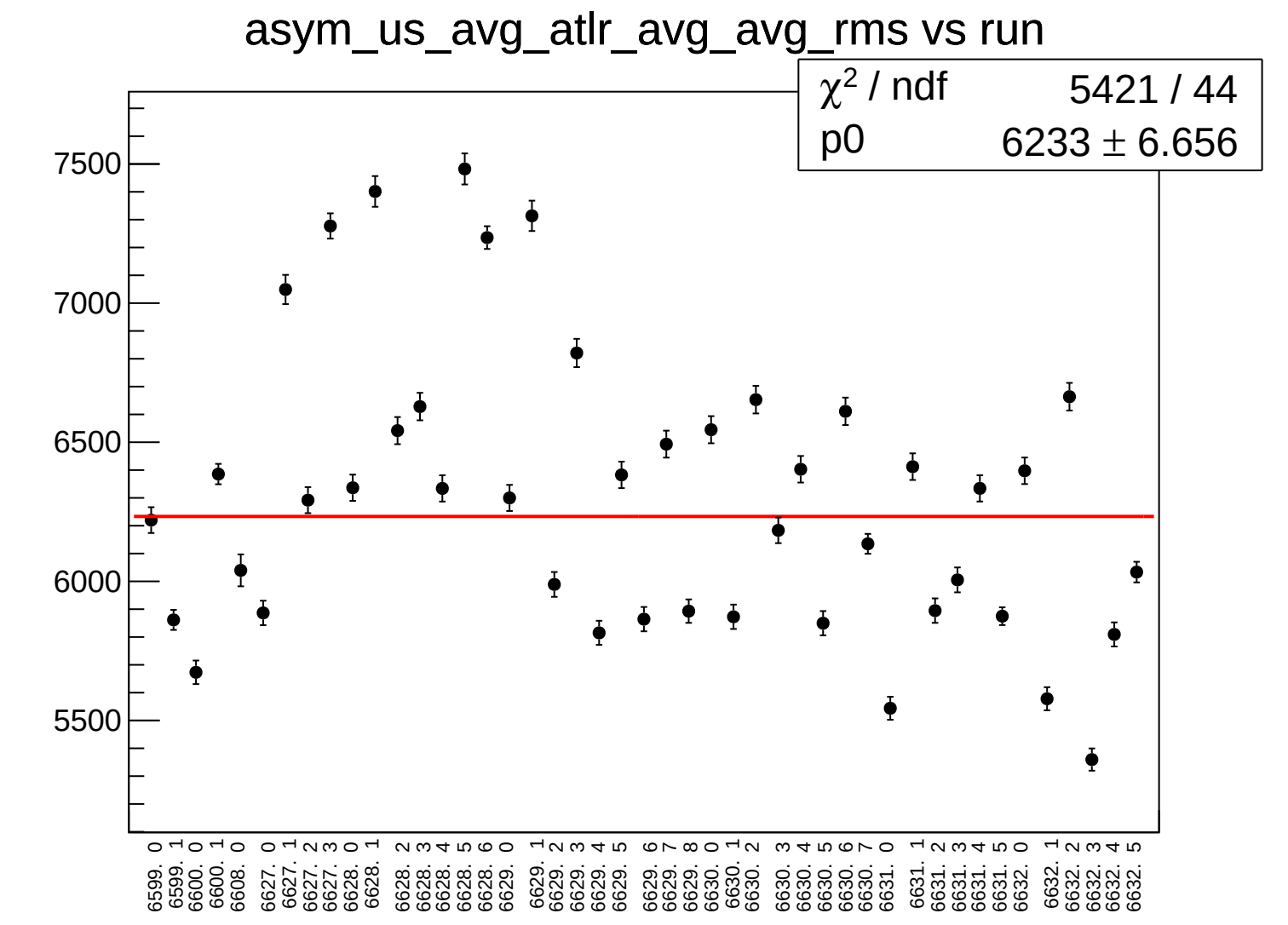

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 207.7 / 44
p0 1975 ± 2.103
2100
2050
2000
1950
1900
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

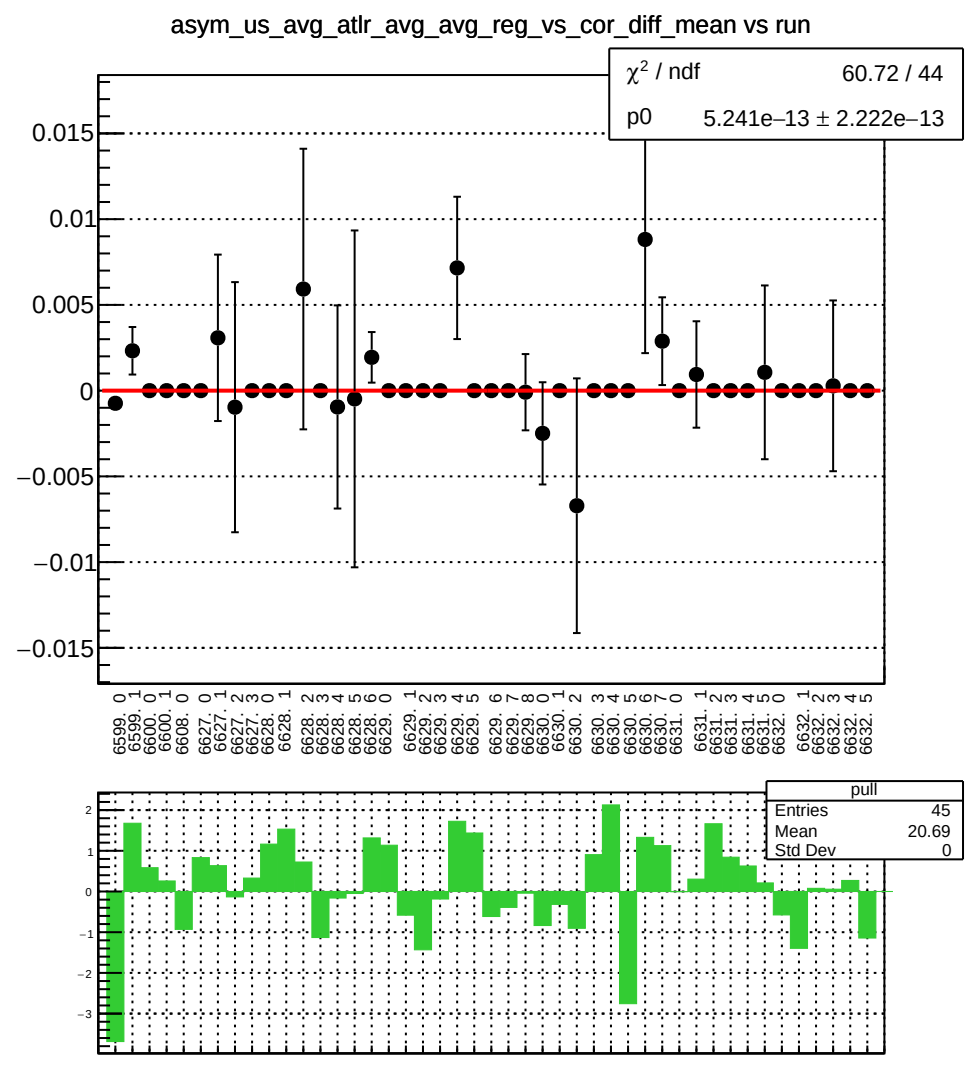

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 63.74 / 44
p0 1.097e+04 ± 9618
200
100
0
−100
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −60.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01897
Std Dev 1.19
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

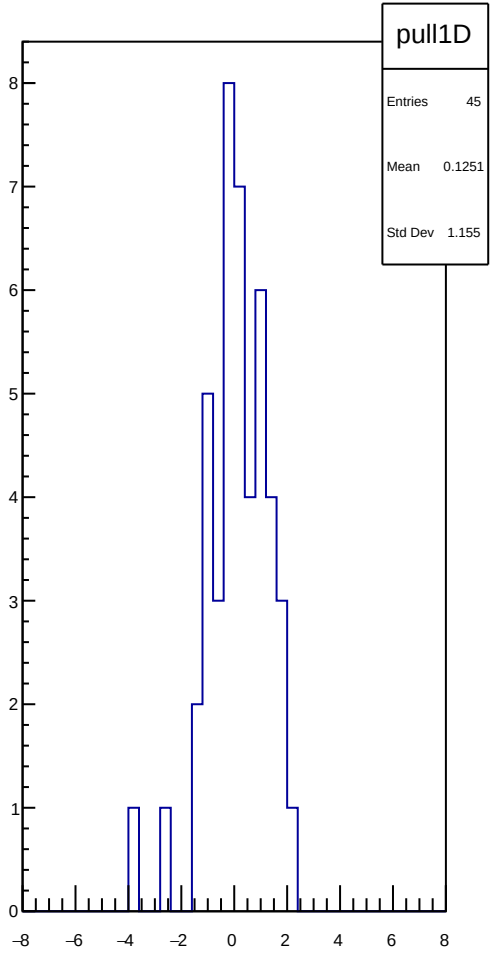

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 5925 / 44
p0 6367 ± 6.801
8000
7500
7000
6500
6000
5500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

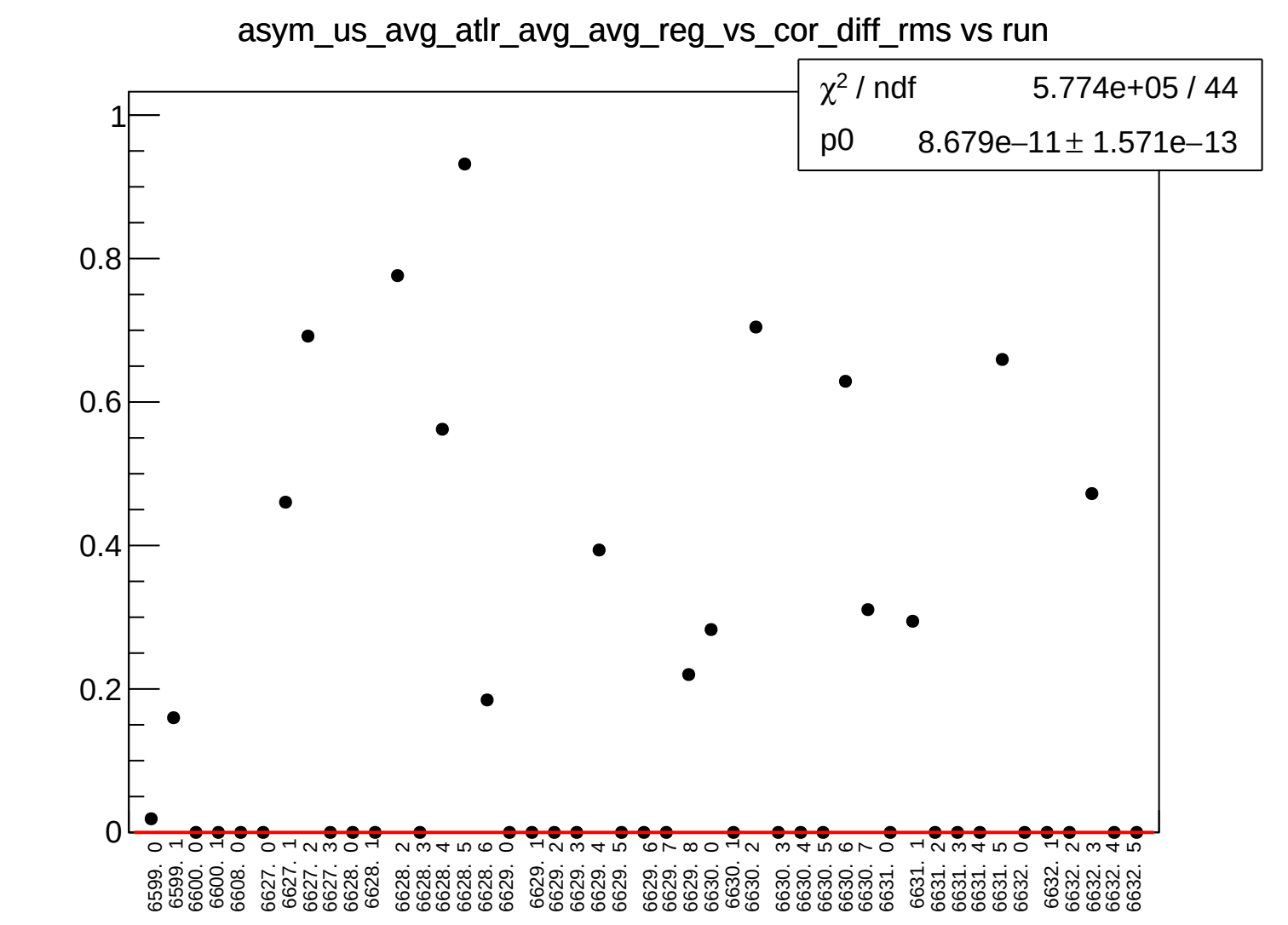

asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 58.47 / 44
p0 −3684 ± 9413
×10³
300
200
100
0
−100
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 10.91
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

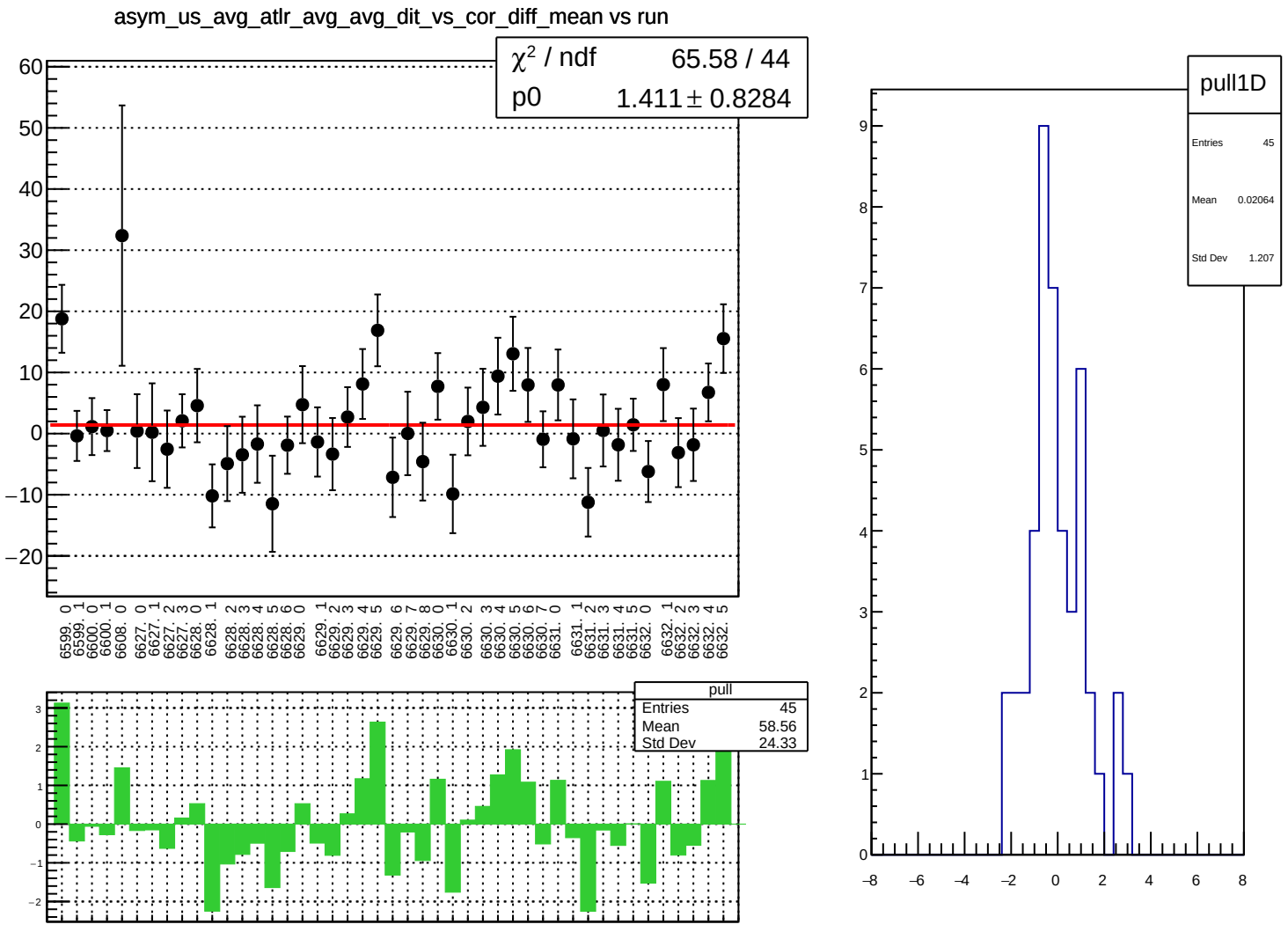

pull1D
Entries 45
Mean 0.02346
Std Dev 1.14
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

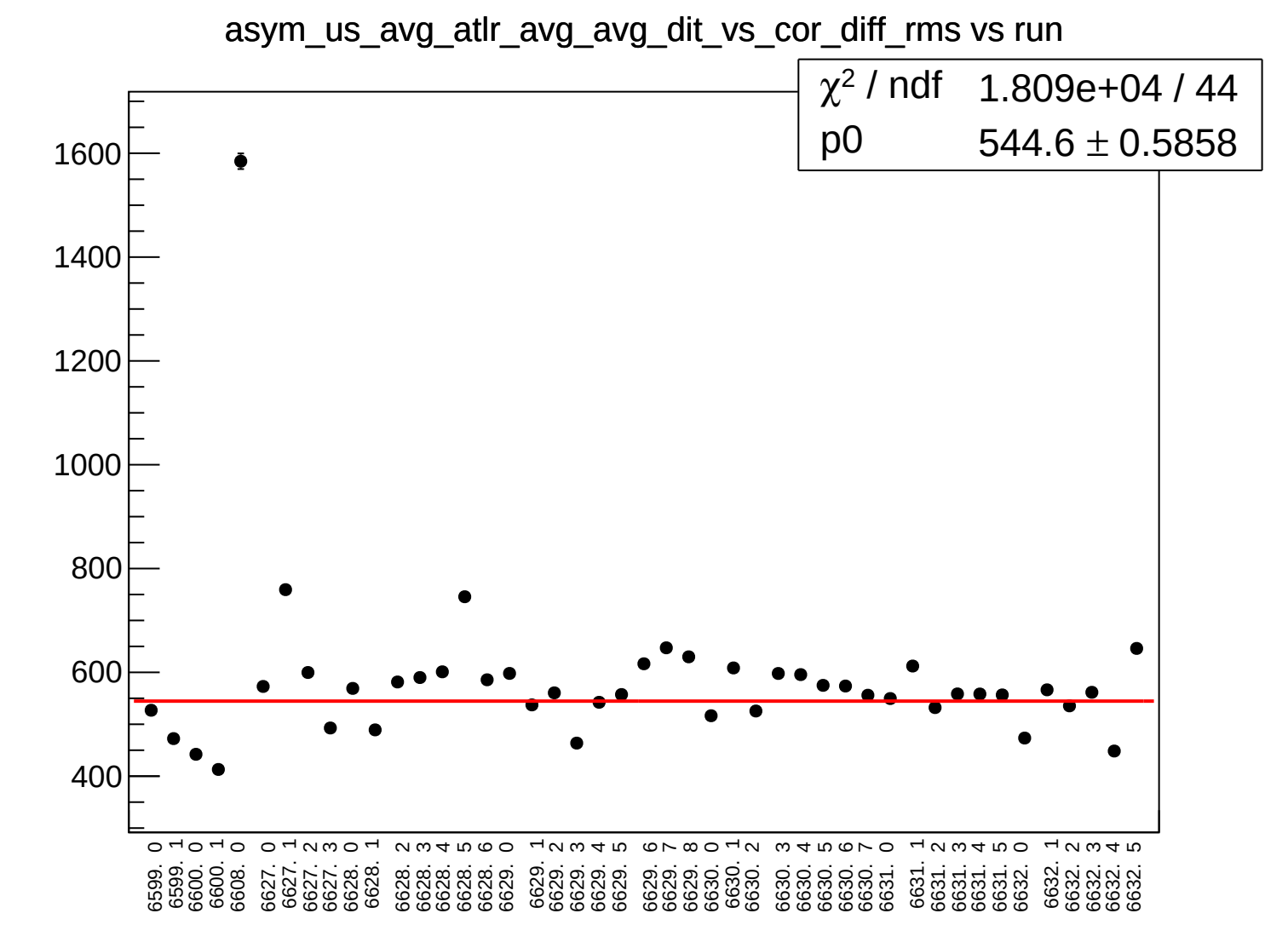

asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 5421 / 44
p0 6233 ± 6.656
7500
7000
6500
6000
5500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

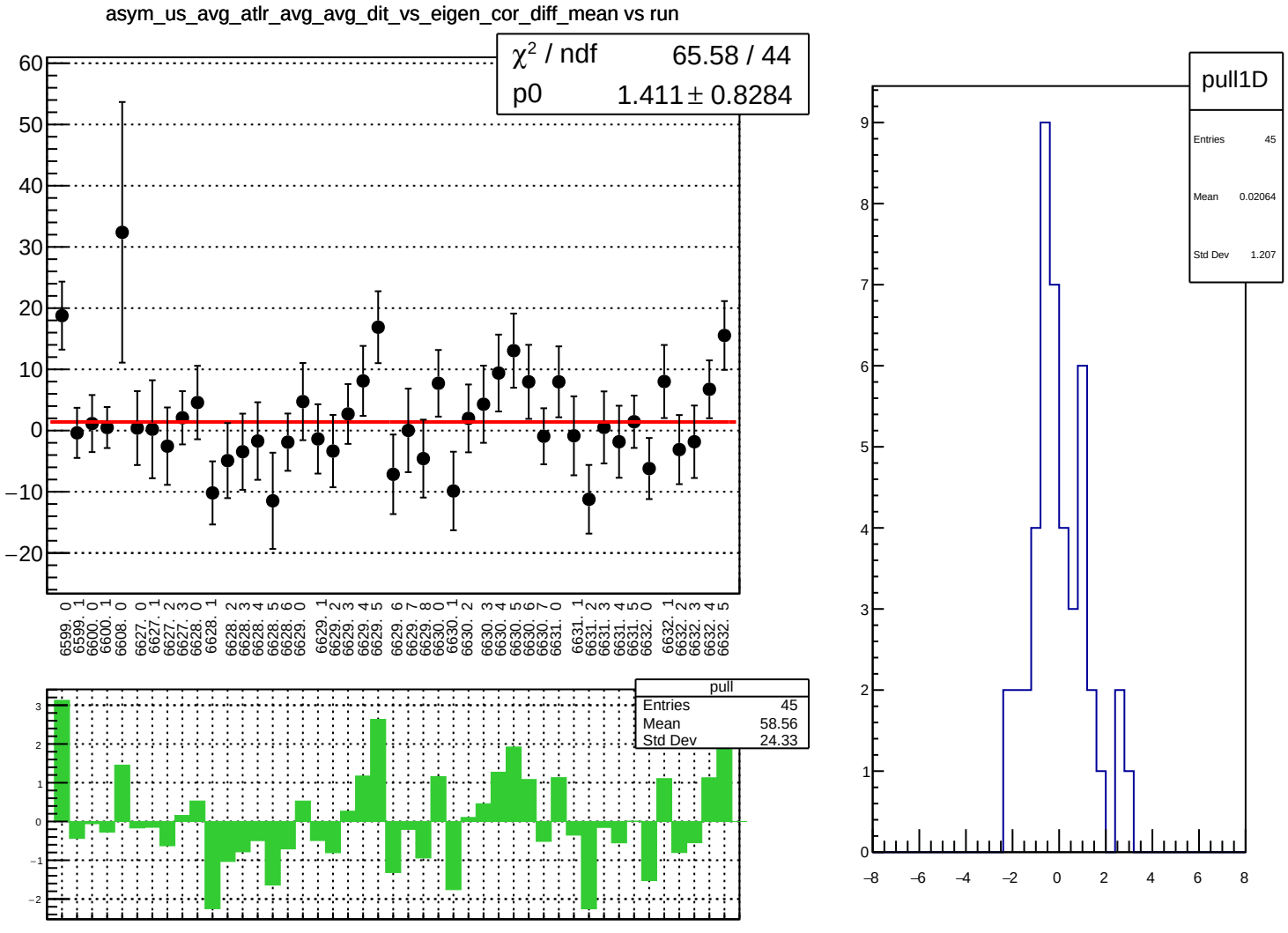

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 60.72 / 44
p0 5.241e−13 ± 2.222e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 20.69
Std Dev 0
2
1
0
−1
−2
−3

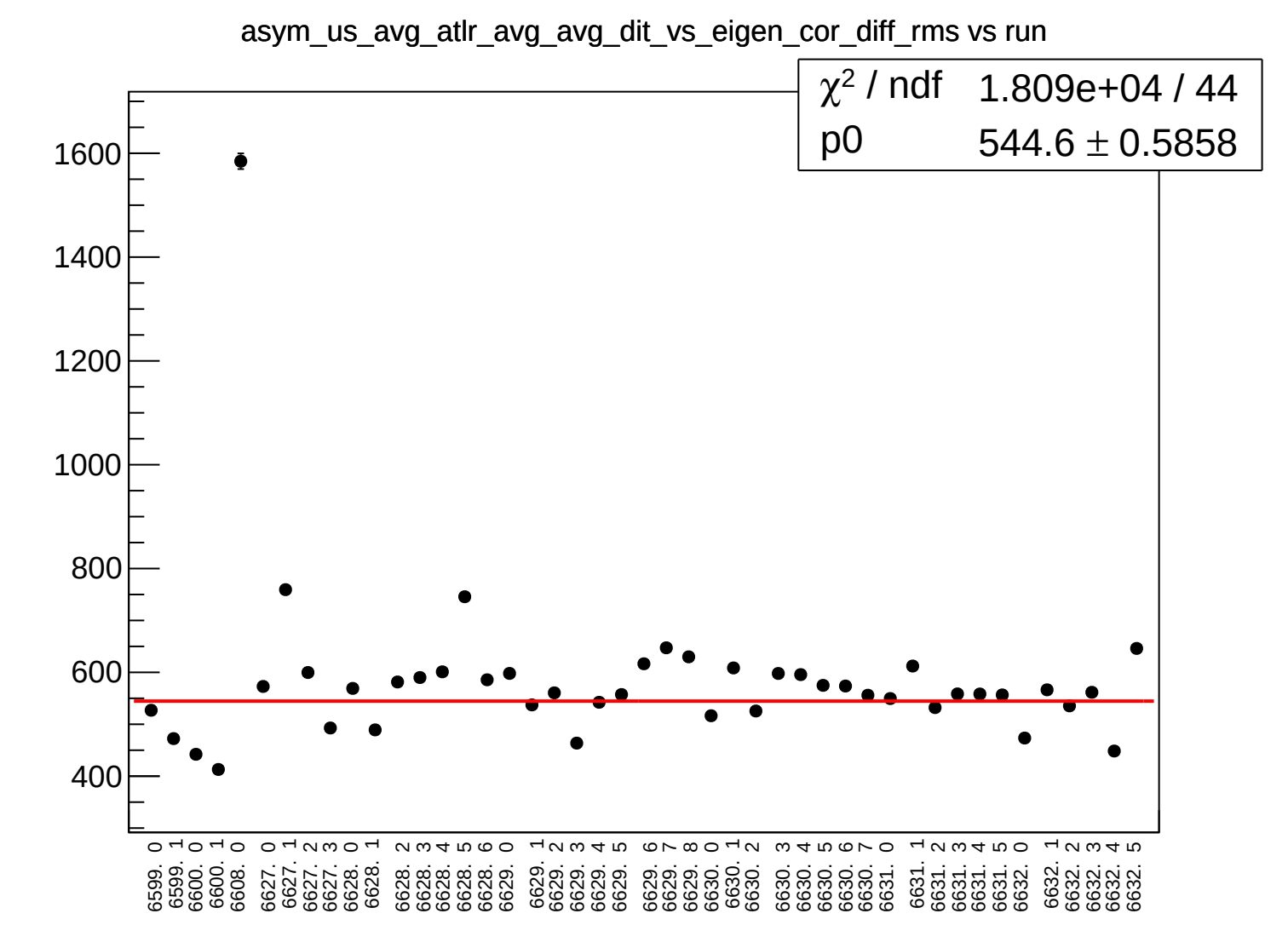

pull1D
Entries 45
Mean 0.1251
Std Dev 1.155
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

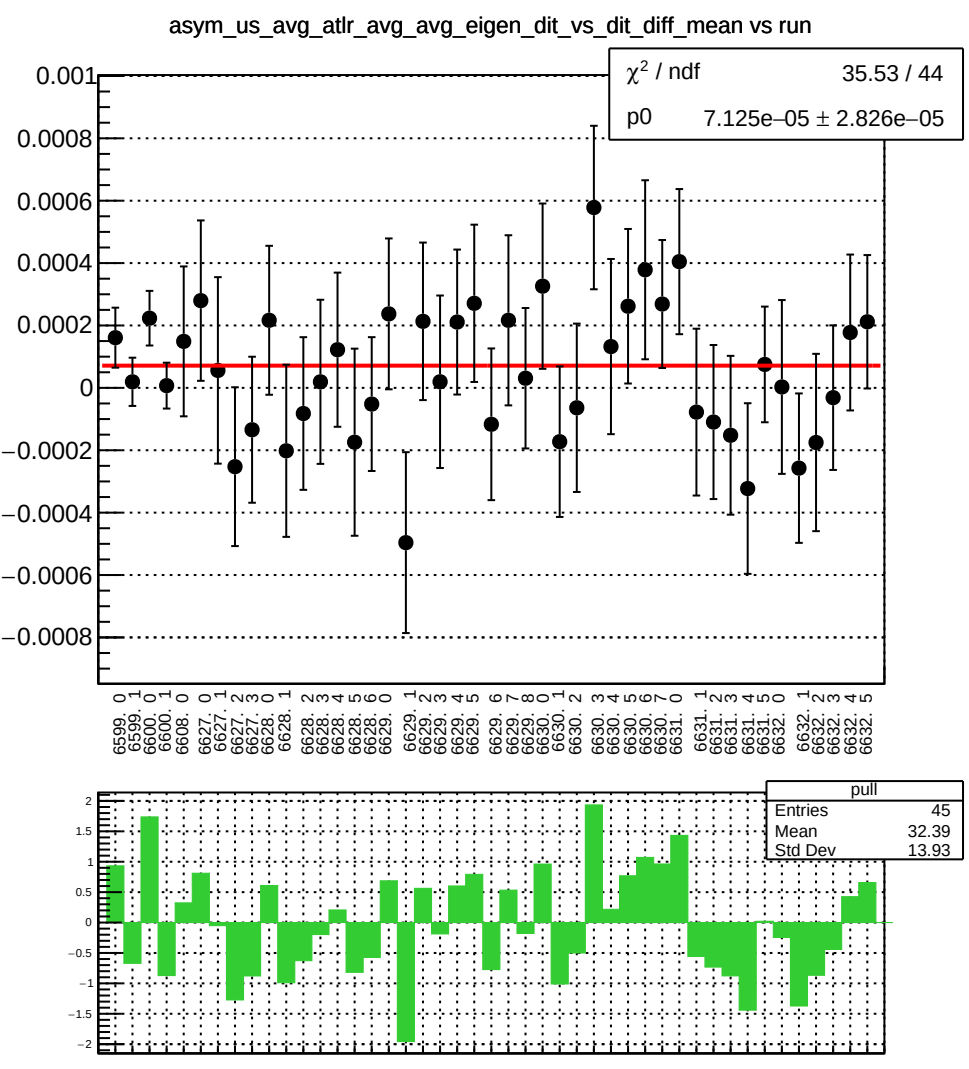

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.774e+05 / 44
p0 8.679e−11 ± 1.571e−13
1
0.8
0.6
0.4
0.2
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

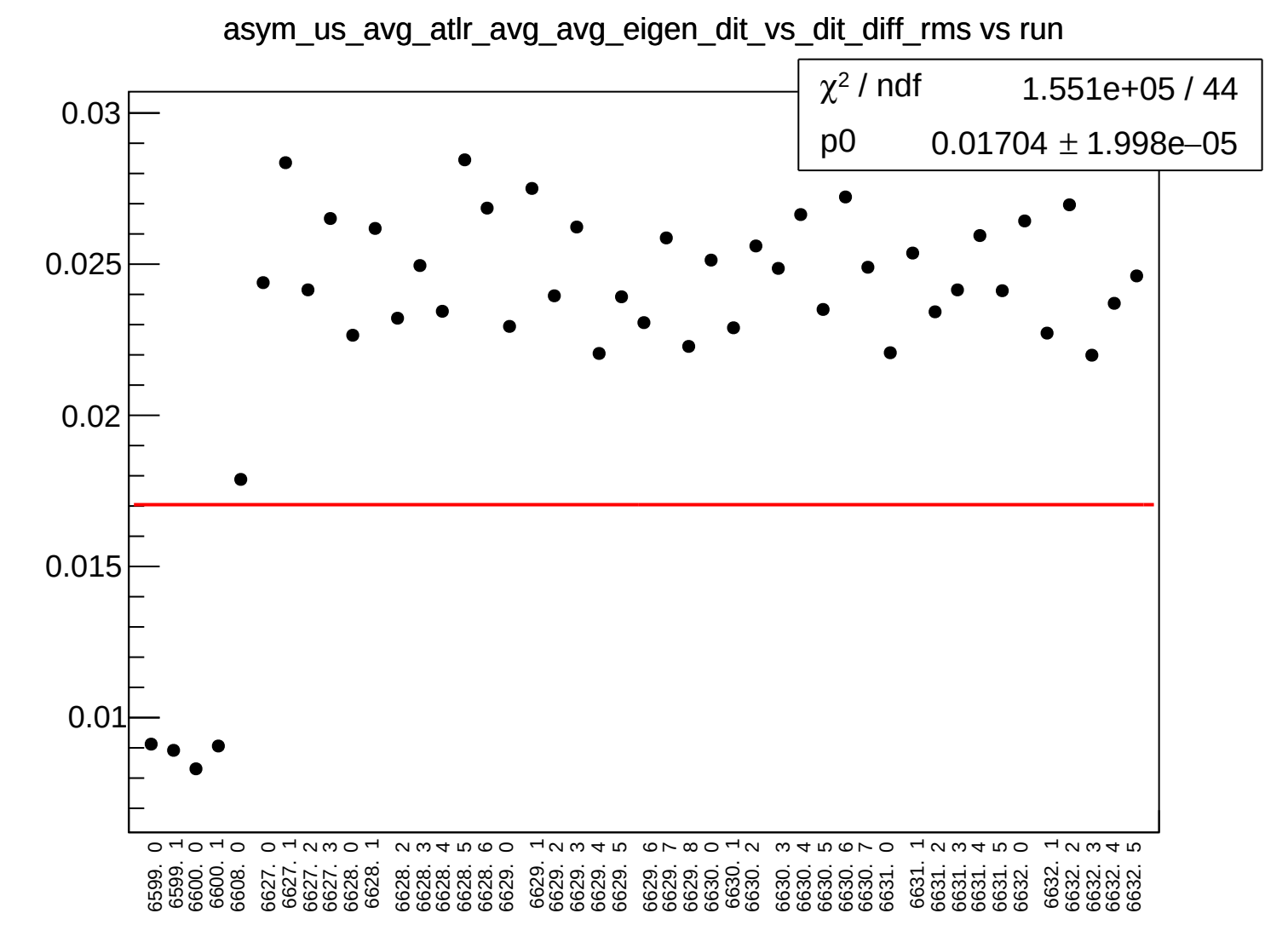

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 65.58 / 44
p0 1.411 ± 0.8284
pull
Entries 45
Mean 58.56
Std Dev 24.33
pull1D
Entries 45
Mean 0.02064
Std Dev 1.207

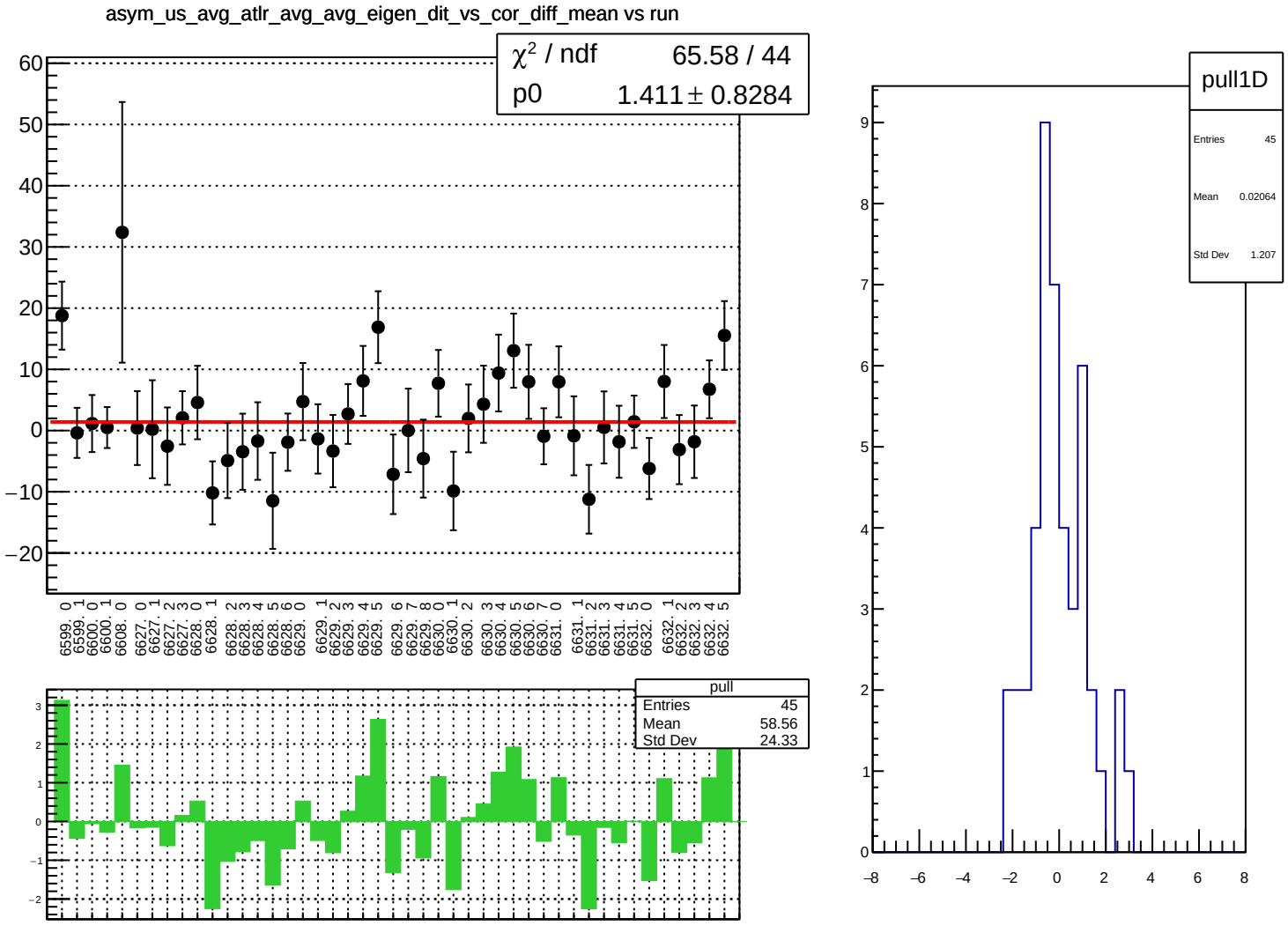

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.809e+04 / 44
p0 544.6 ± 0.5858
1600
1400
1200
1000
800
600
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

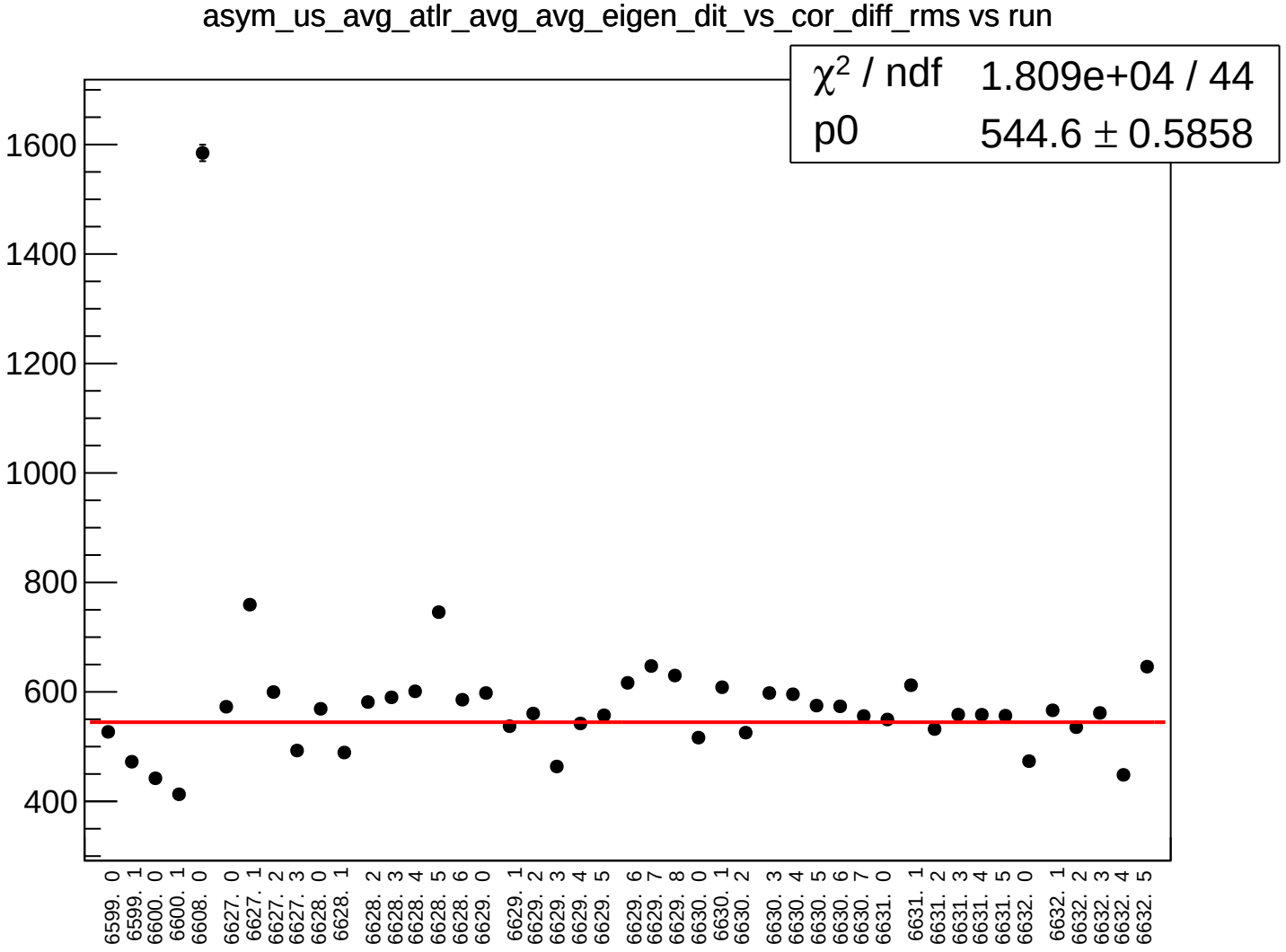

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.58 / 44
p0 1.411 ± 0.8284
pull
Entries 45
Mean 58.56
Std Dev 24.33
pull1D
Entries 45
Mean 0.02064
Std Dev 1.207

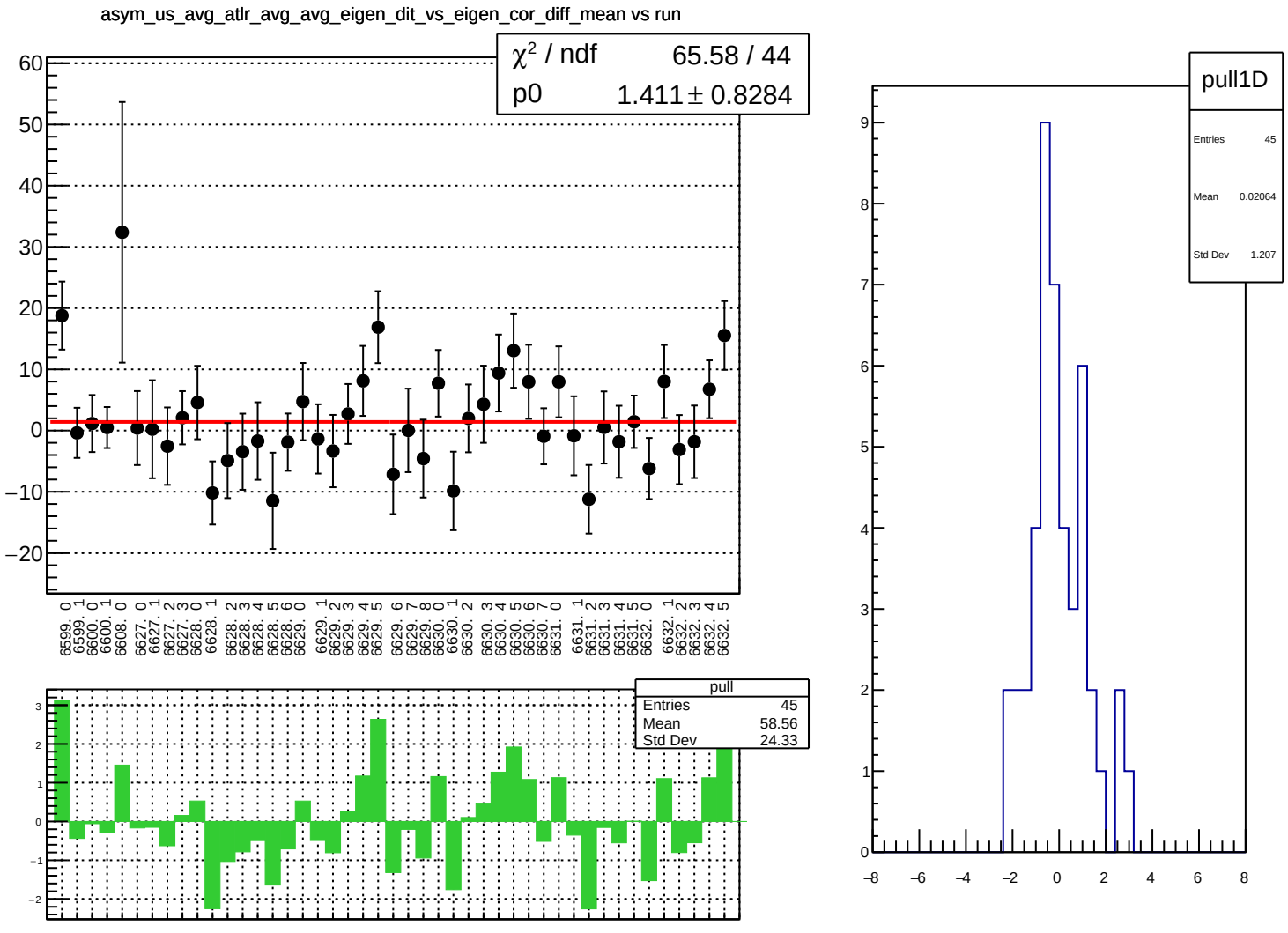

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.809e+04 / 44
p0 544.6 ± 0.5858
1600
1400
1200
1000
800
600
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

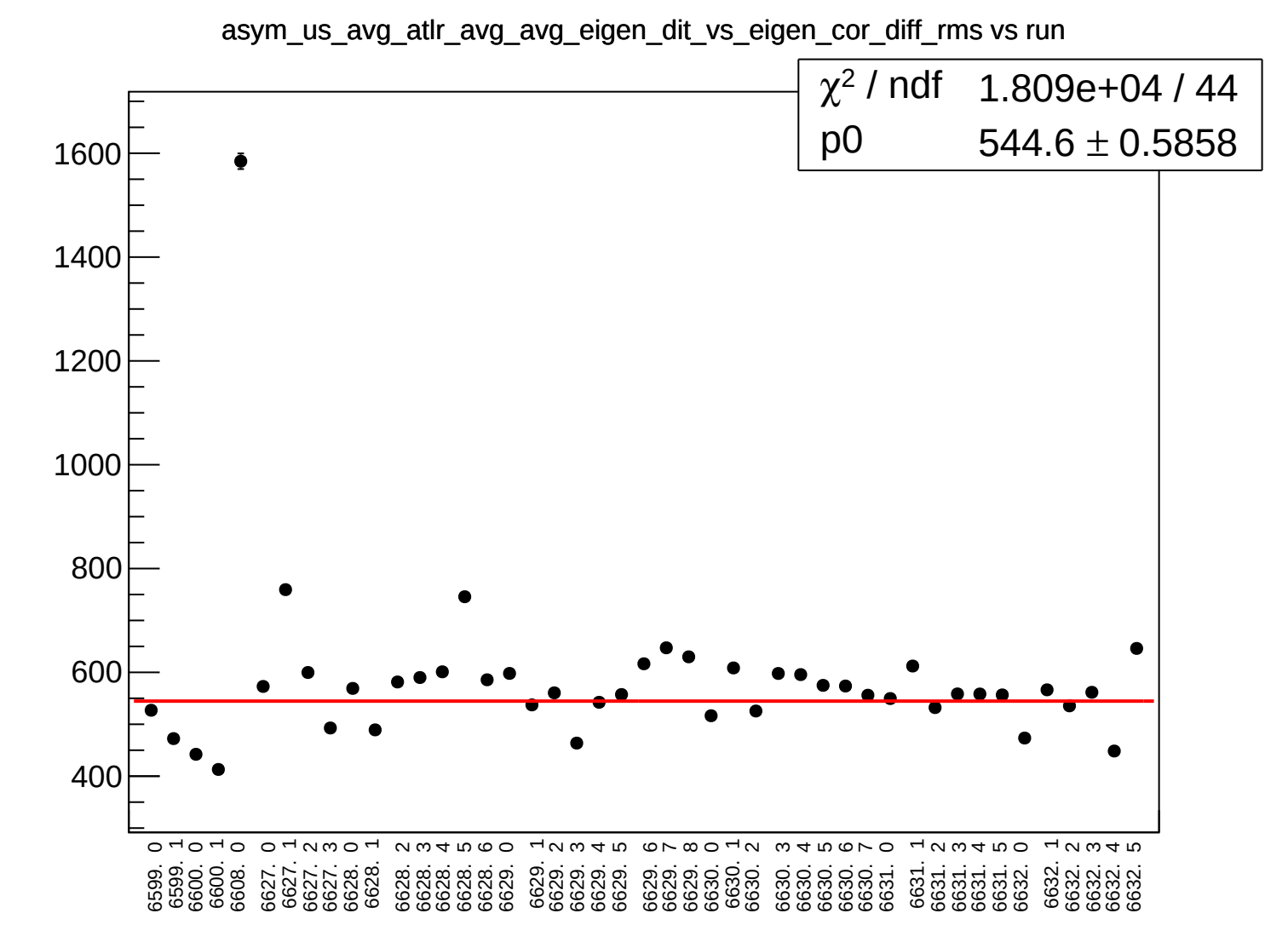

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 35.53 / 44
p0 7.125e−05 ± 2.826e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 32.39
Std Dev 13.93
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.04097
Std Dev 0.8876
9
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_vs_dit_diff_rms vs run
χ² / ndf 1.551e+05 / 44
p0 0.01704 ± 1.998e–05
0.03
0.025
0.02
0.015
0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65.58 / 44
p0 1.411 ± 0.8284
pull
Entries 45
Mean 58.56
Std Dev 24.33
pull1D
Entries 45
Mean 0.02064
Std Dev 1.207


asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.809e+04 / 44
p0 544.6 ± 0.5858
1600
1400
1200
1000
800
600
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.58 / 44
p0 1.411 ± 0.8284
pull
Entries 45
Mean 58.56
Std Dev 24.33
pull1D
Entries 45
Mean 0.02064
Std Dev 1.207


asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.809e+04 / 44
p0 544.6 ± 0.5858
1600
1400
1200
1000
800
600
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
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6630. 2
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6630. 5
6630. 6
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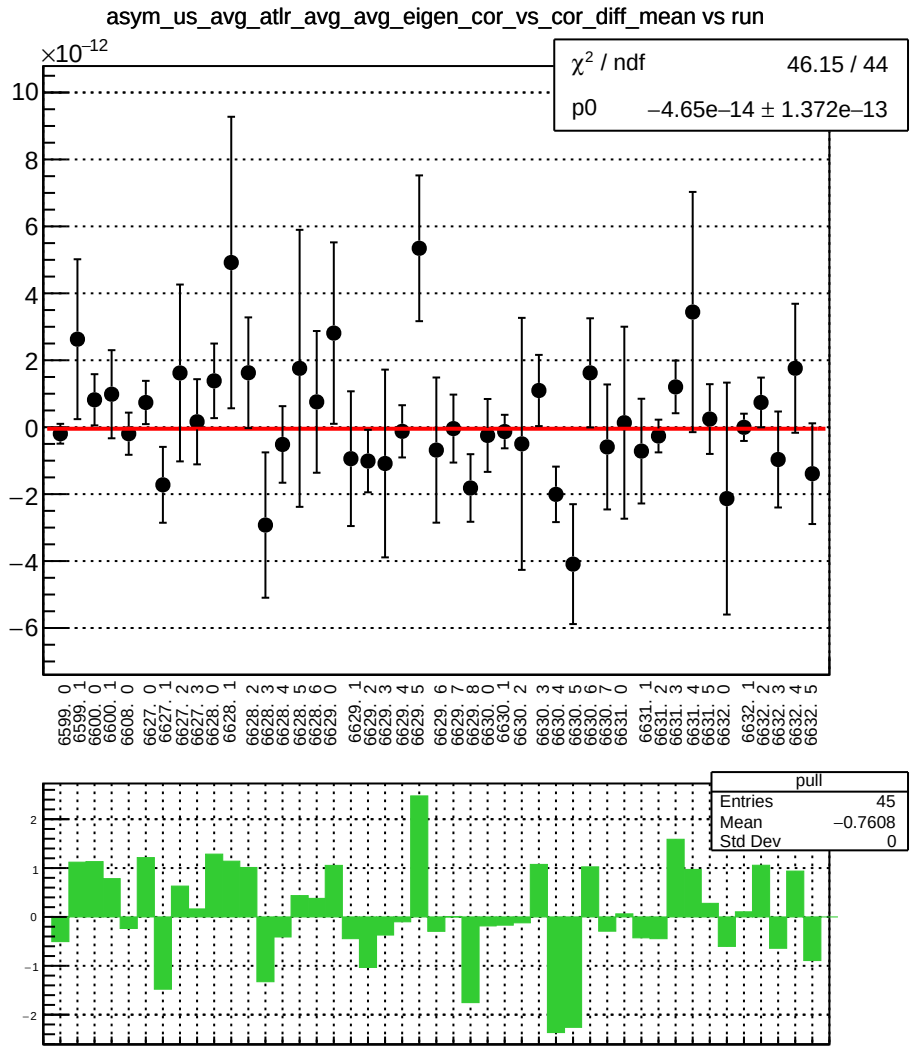
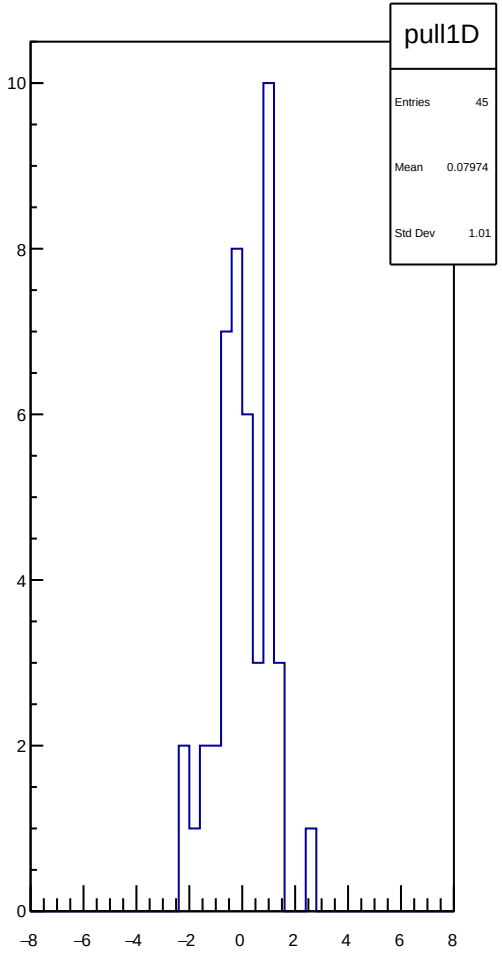
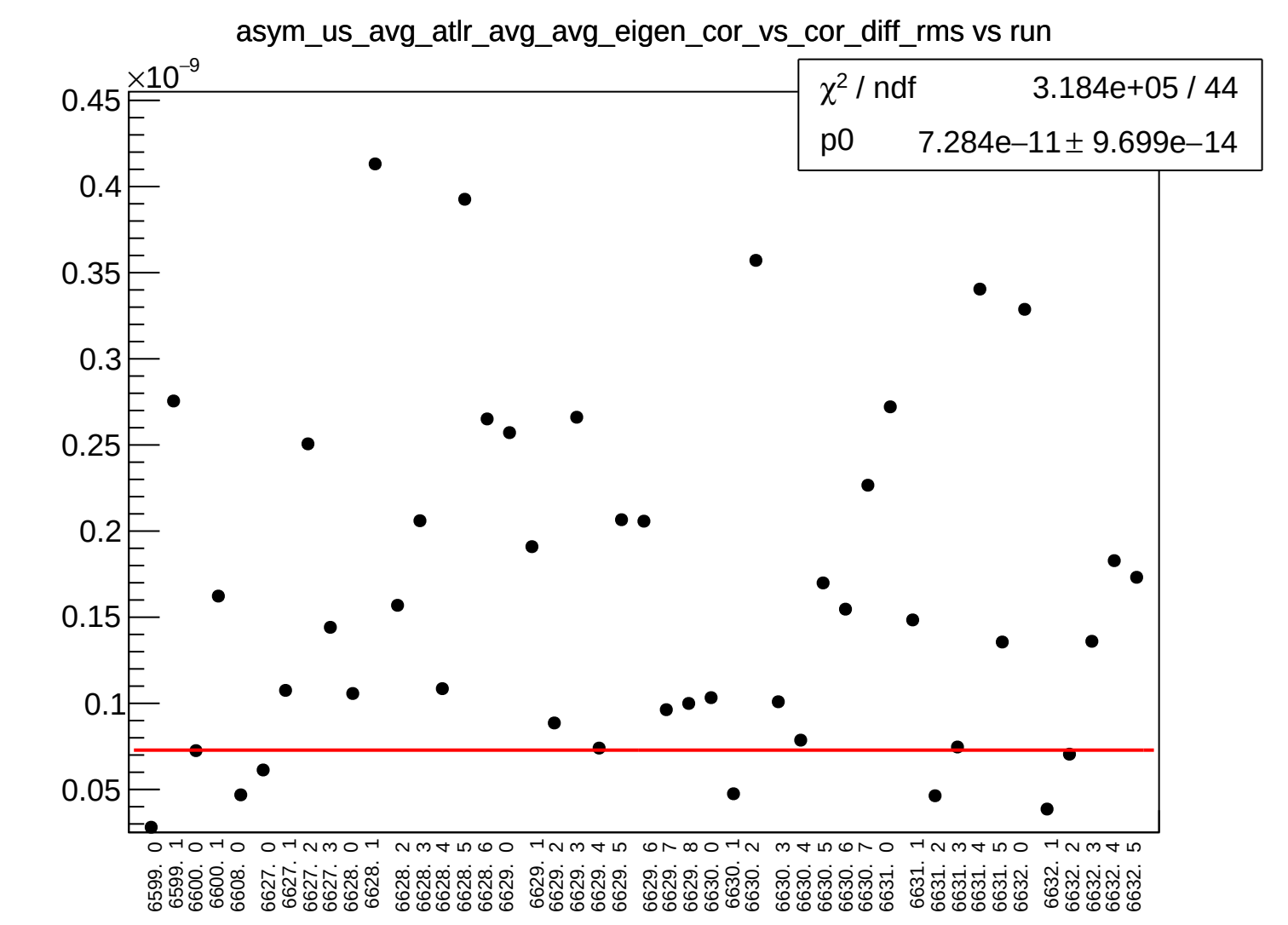
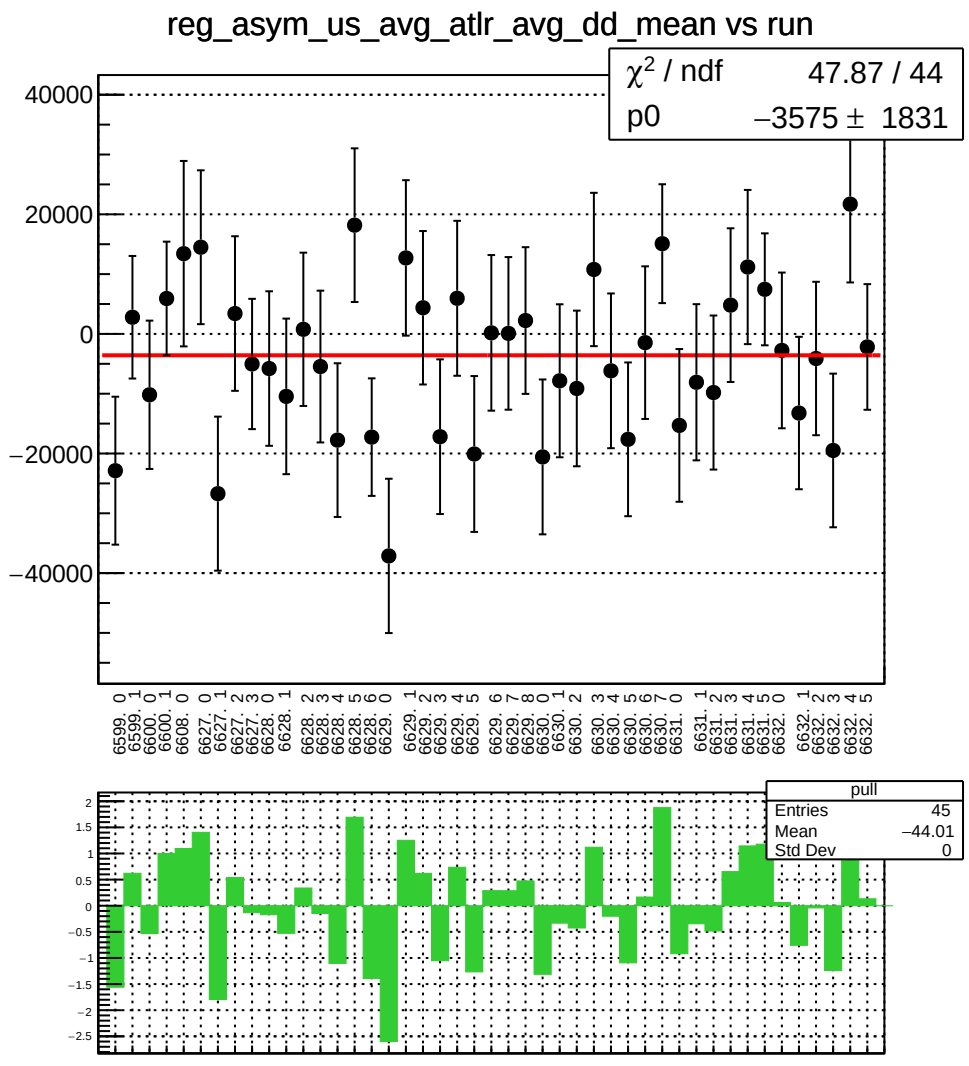
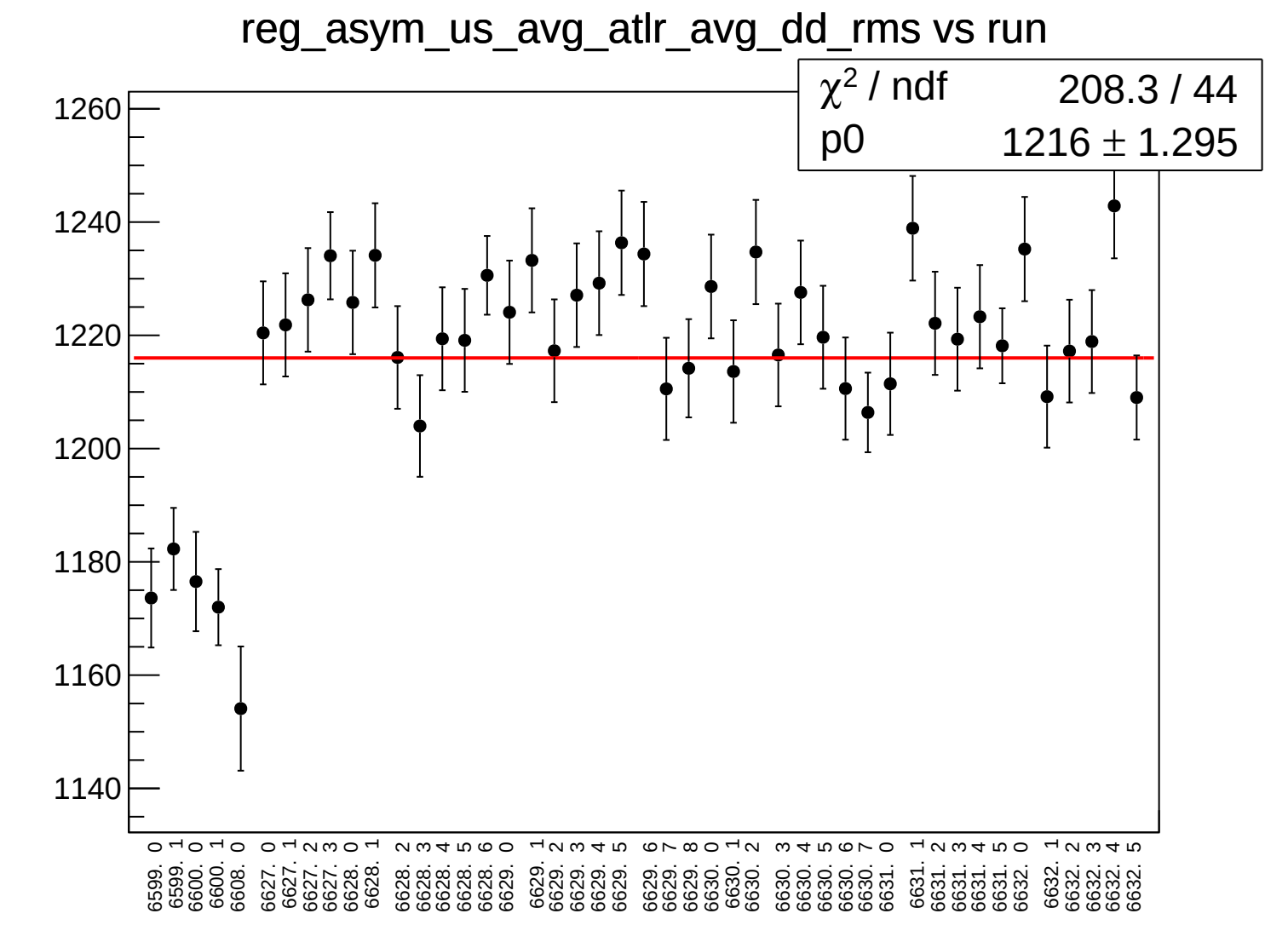
6632. 5

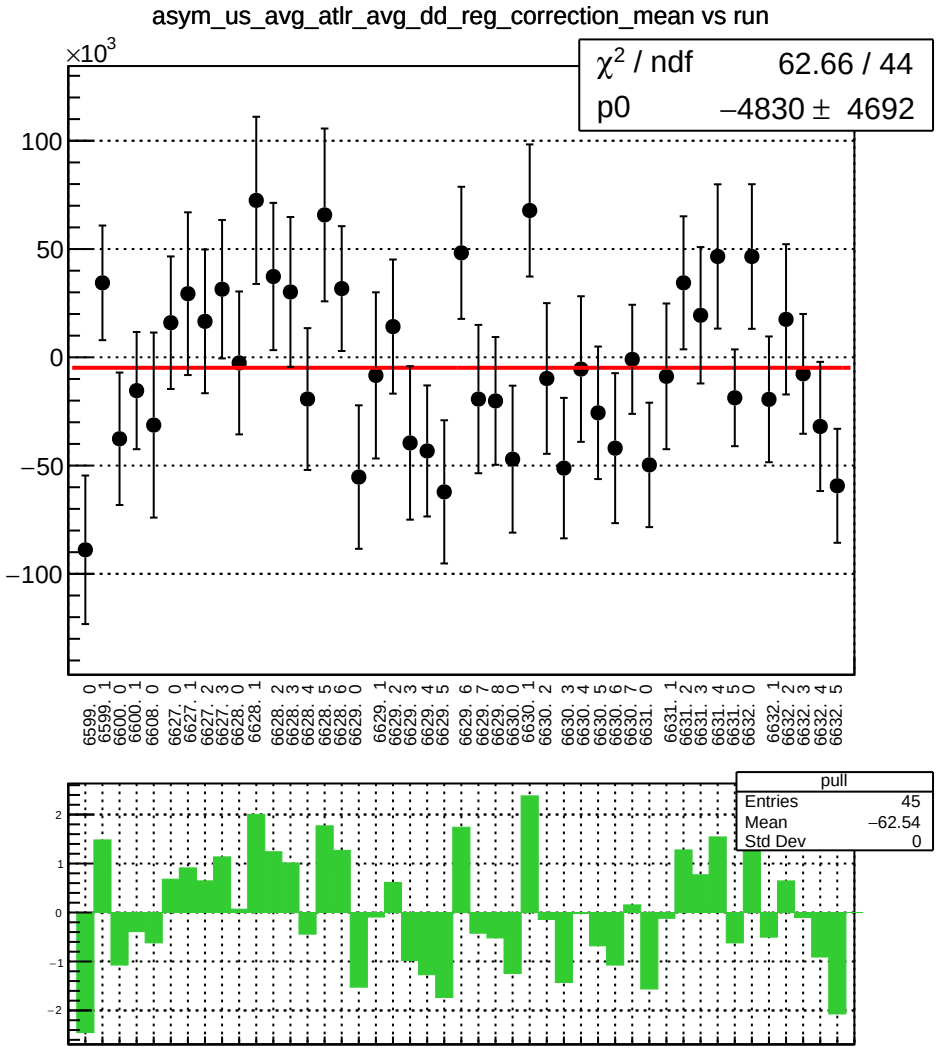

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 46.15 / 44
p0 −4.65e−14 ± 1.372e−13
pull
Entries 45
Mean −0.7608
Std Dev 0

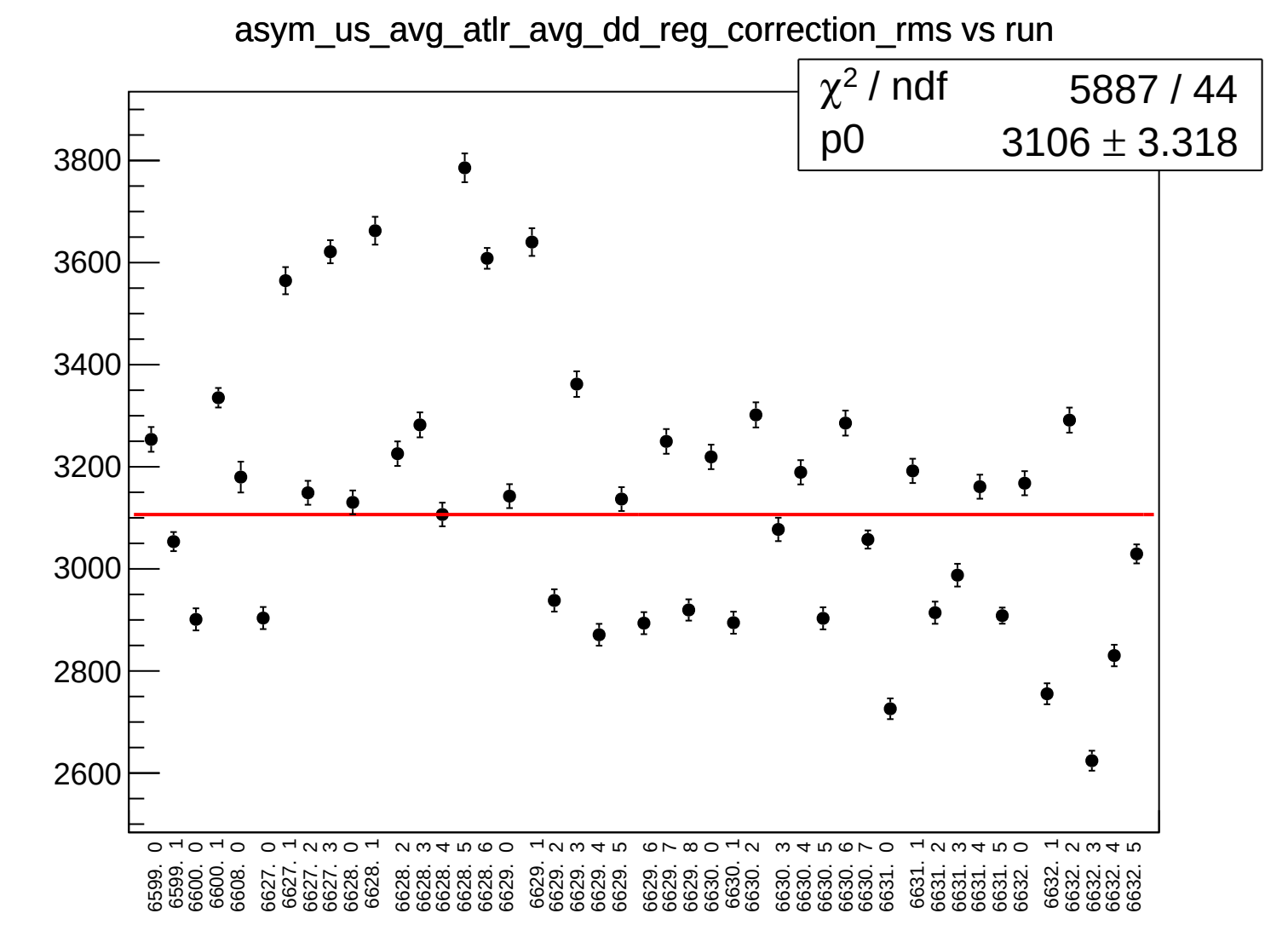

pull1D
Entries 45
Mean 0.07974
Std Dev 1.01


asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.184e+05 / 44
p0 7.284e−11 ± 9.699e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 47.87 / 44
p0 −3575 ± 1831
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −44.01
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.01828
Std Dev 1.031
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 208.3 / 44
p0 1216 ± 1.295
1260
1240
1220
1200
1180
1160
1140
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 62.66 / 44
p0 −4830 ± 4692
100
50
0
−50
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −62.54
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.0199
Std Dev 1.18
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 5887 / 44
p0 3106 ± 3.318
3800
3600
3400
3200
3000
2800
2600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
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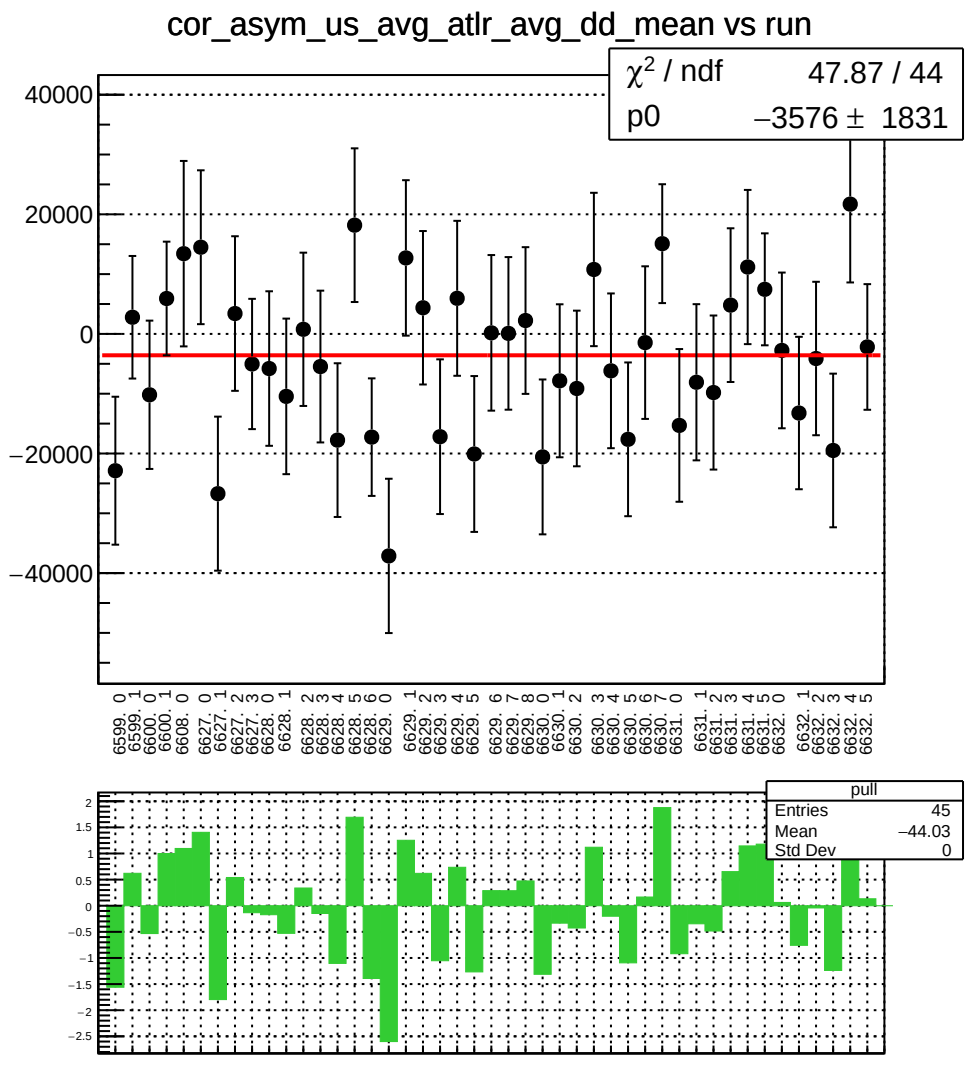
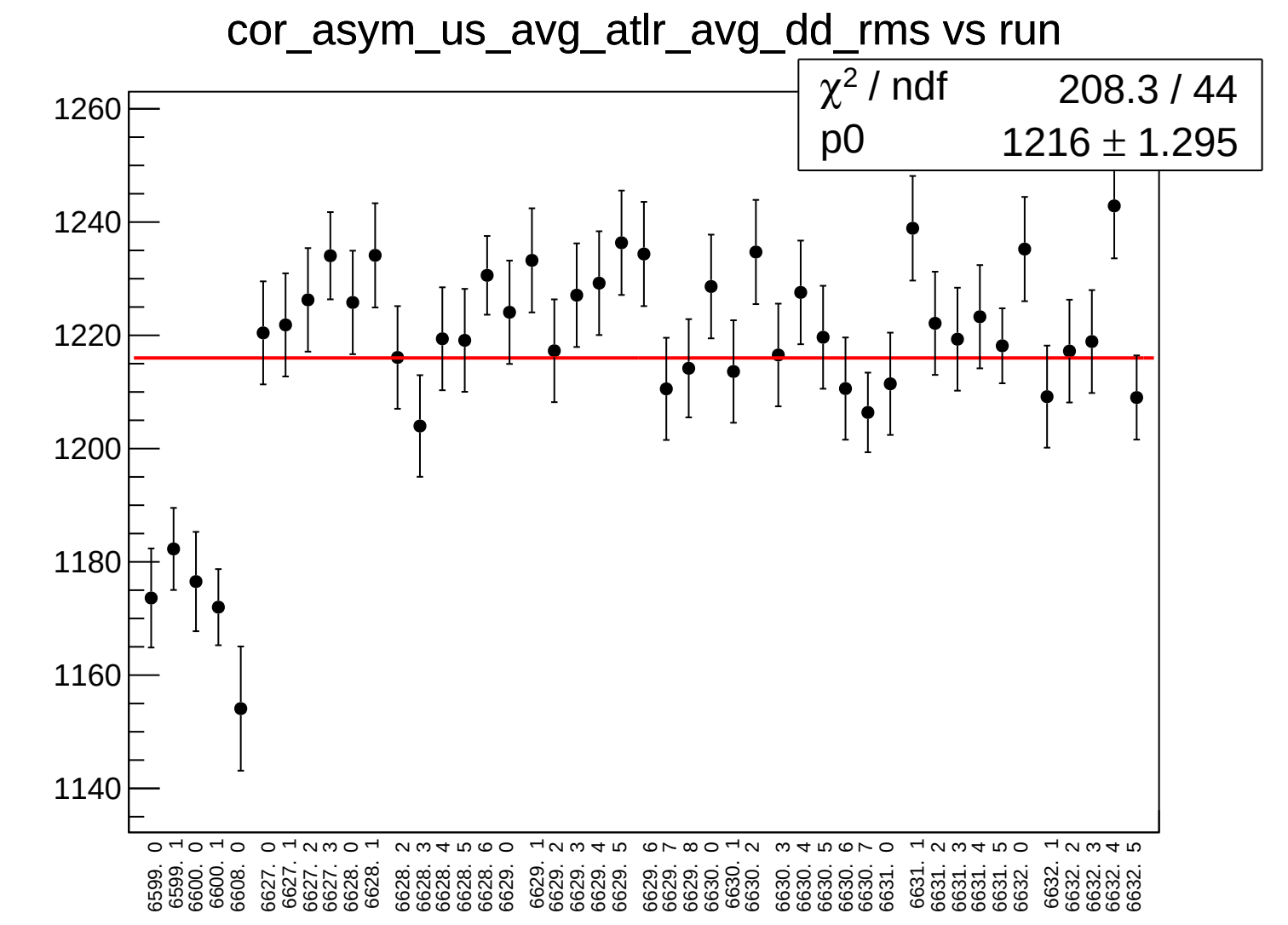
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 47.87 / 44
p0 −3576 ± 1831
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −44.03
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.01828
Std Dev 1.031
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 208.3 / 44
p0 1216 ± 1.295
1260
1240
1220
1200
1180
1160
1140
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
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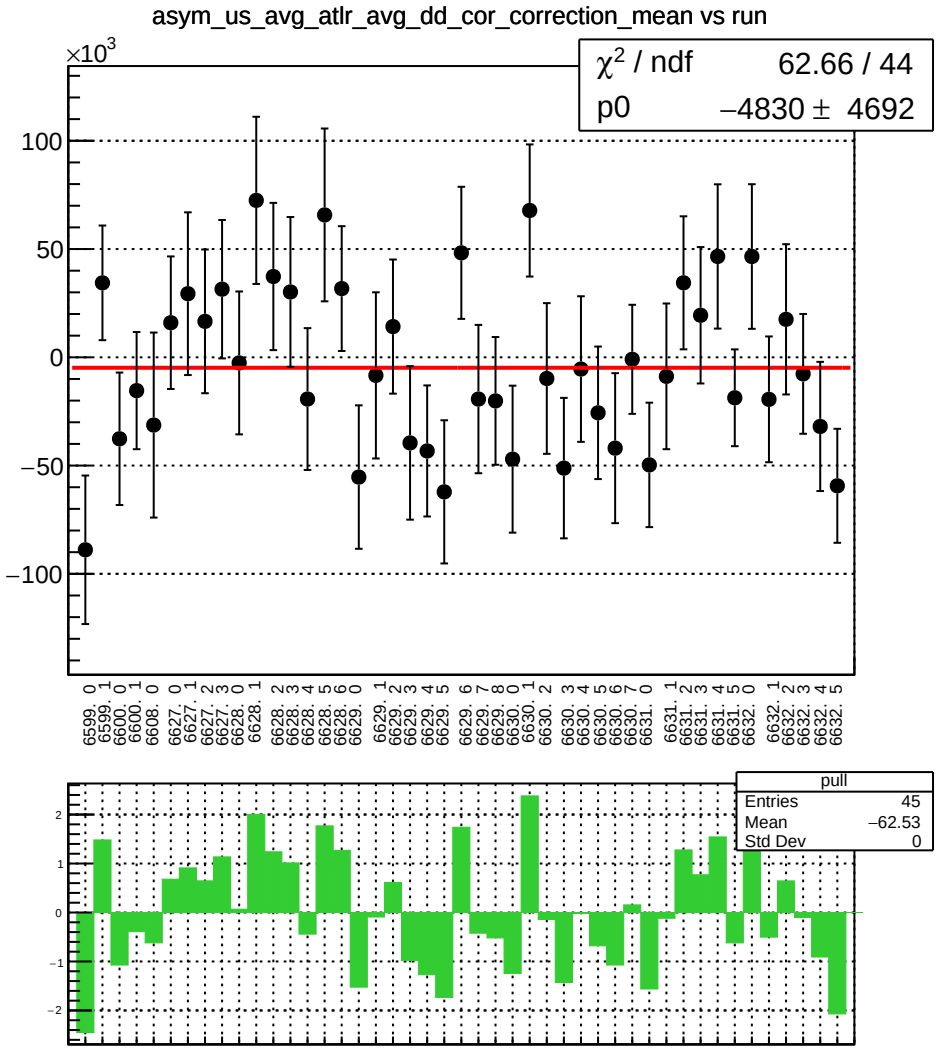
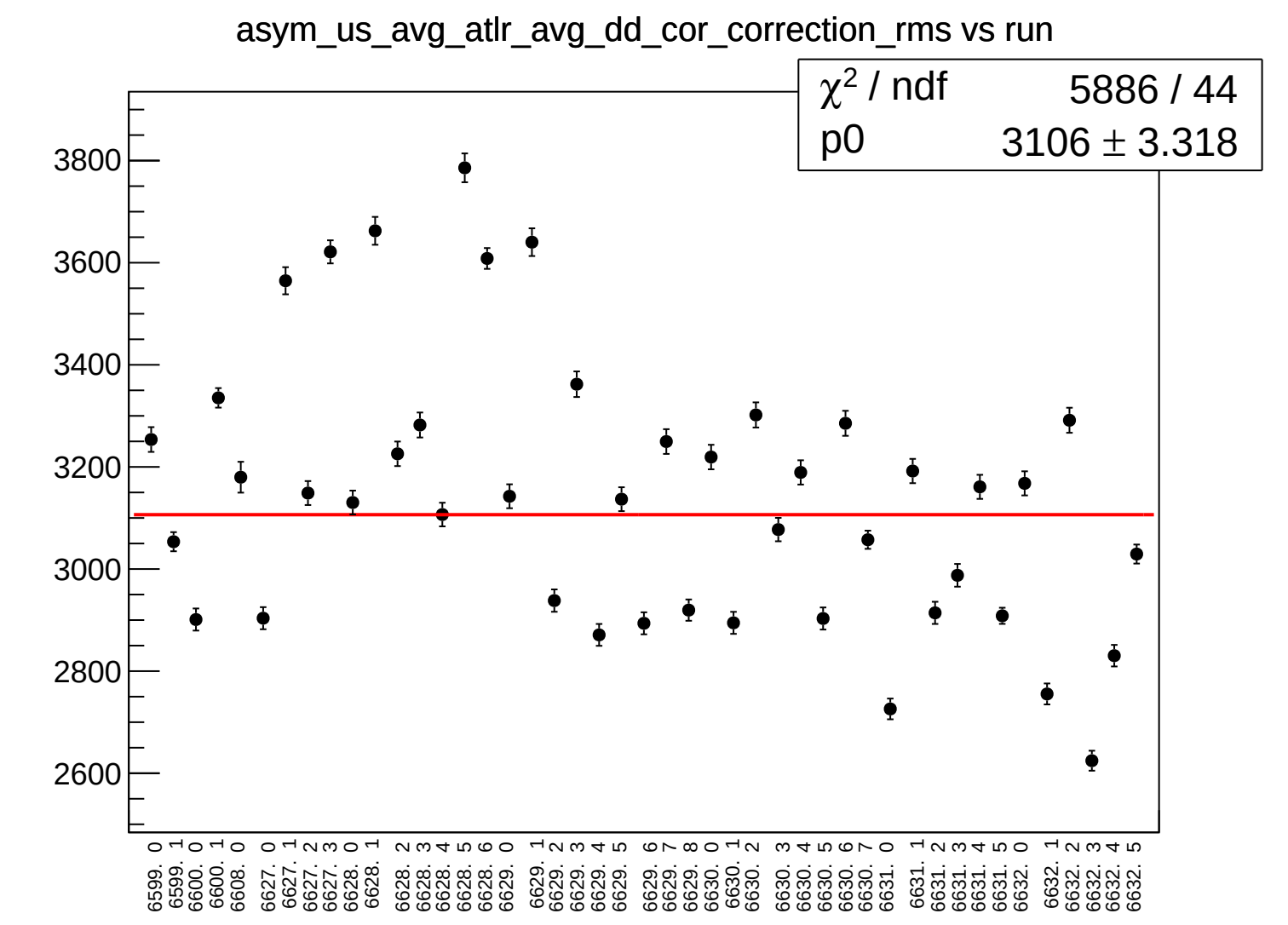
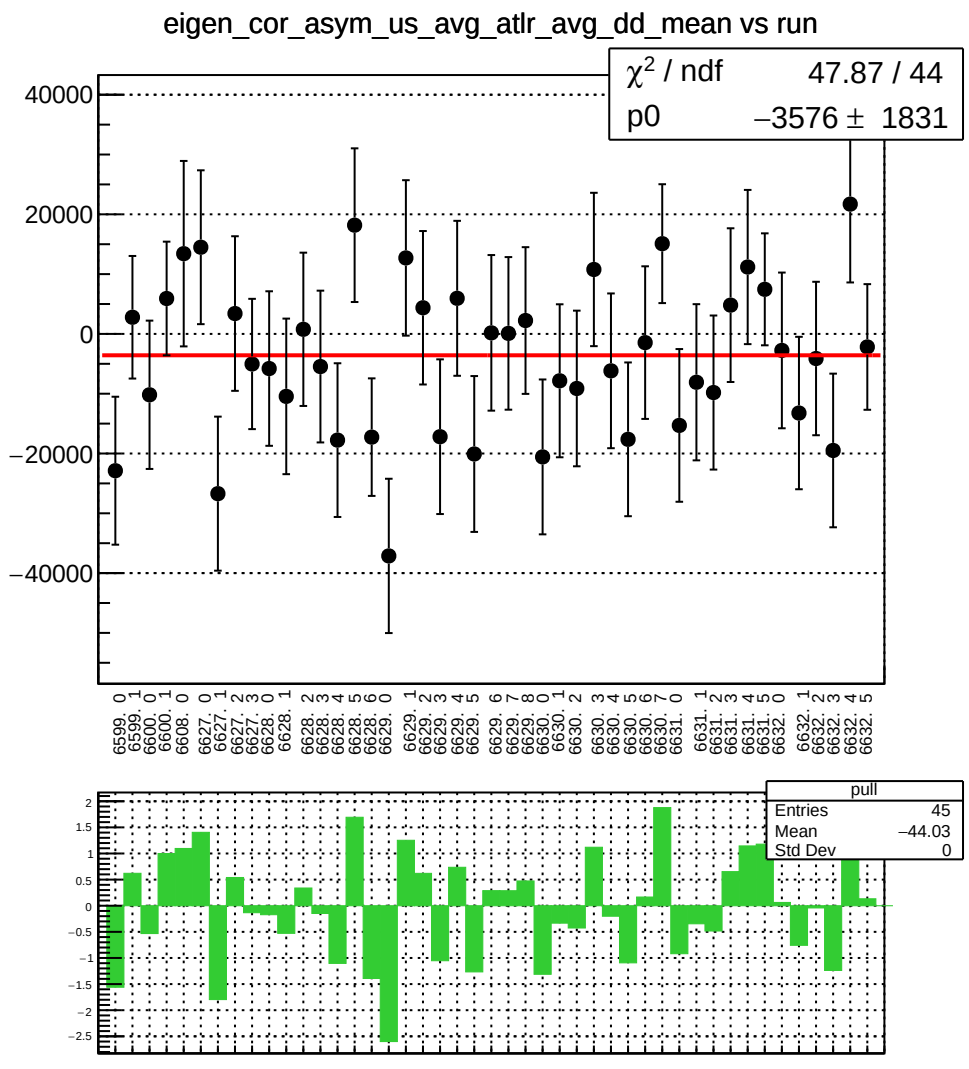
6632. 5


asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 62.66 / 44
p0 −4830 ± 4692
100
50
0
−50
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −62.53
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.0199
Std Dev 1.18
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 5886 / 44
p0 3106 ± 3.318
3800
3600
3400
3200
3000
2800
2600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 47.87 / 44
p0 −3576 ± 1831
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
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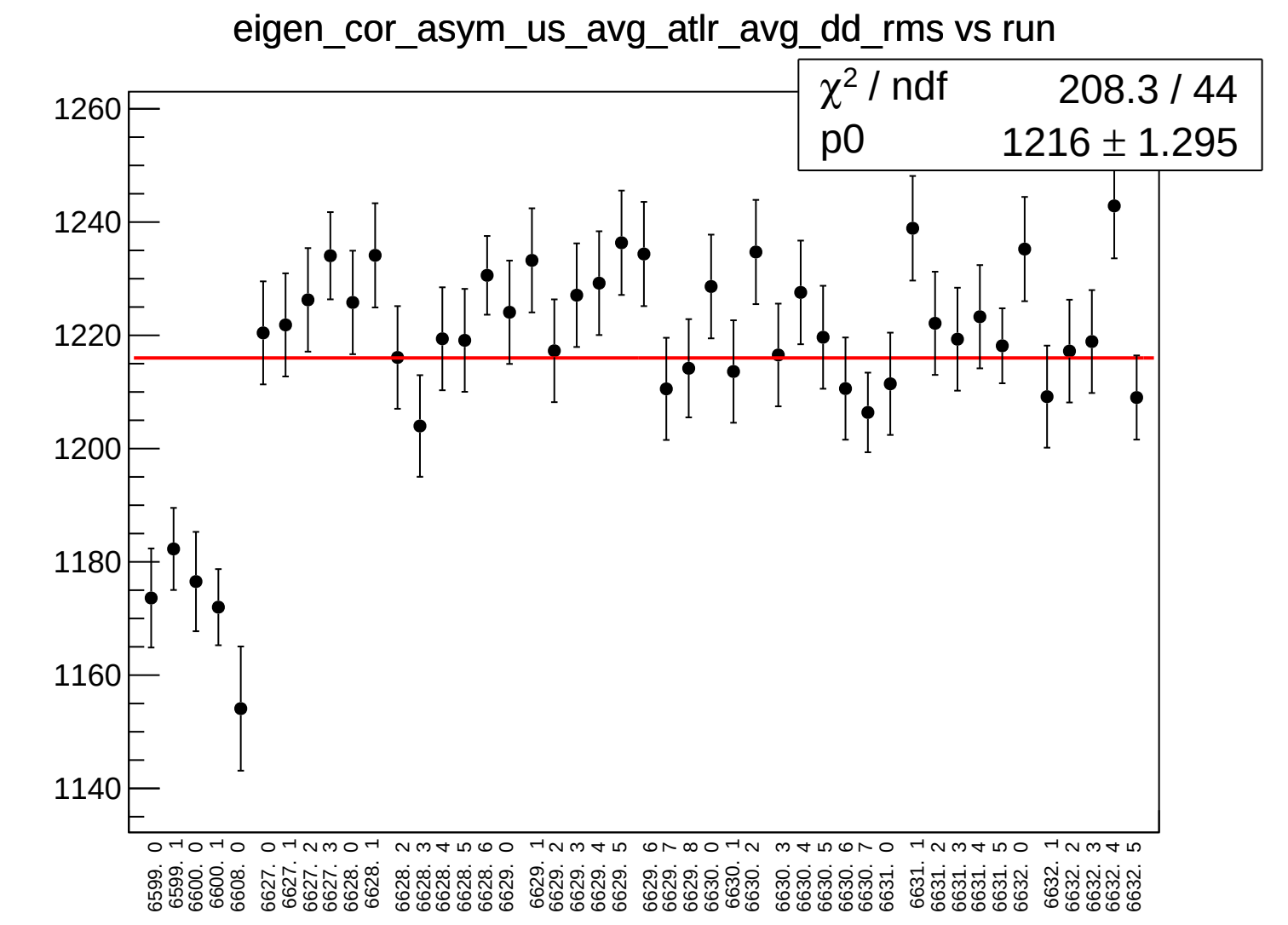
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −44.03
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.01828
Std Dev 1.031
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 208.3 / 44
p0 1216 ± 1.295
1260
1240
1220
1200
1180
1160
1140
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
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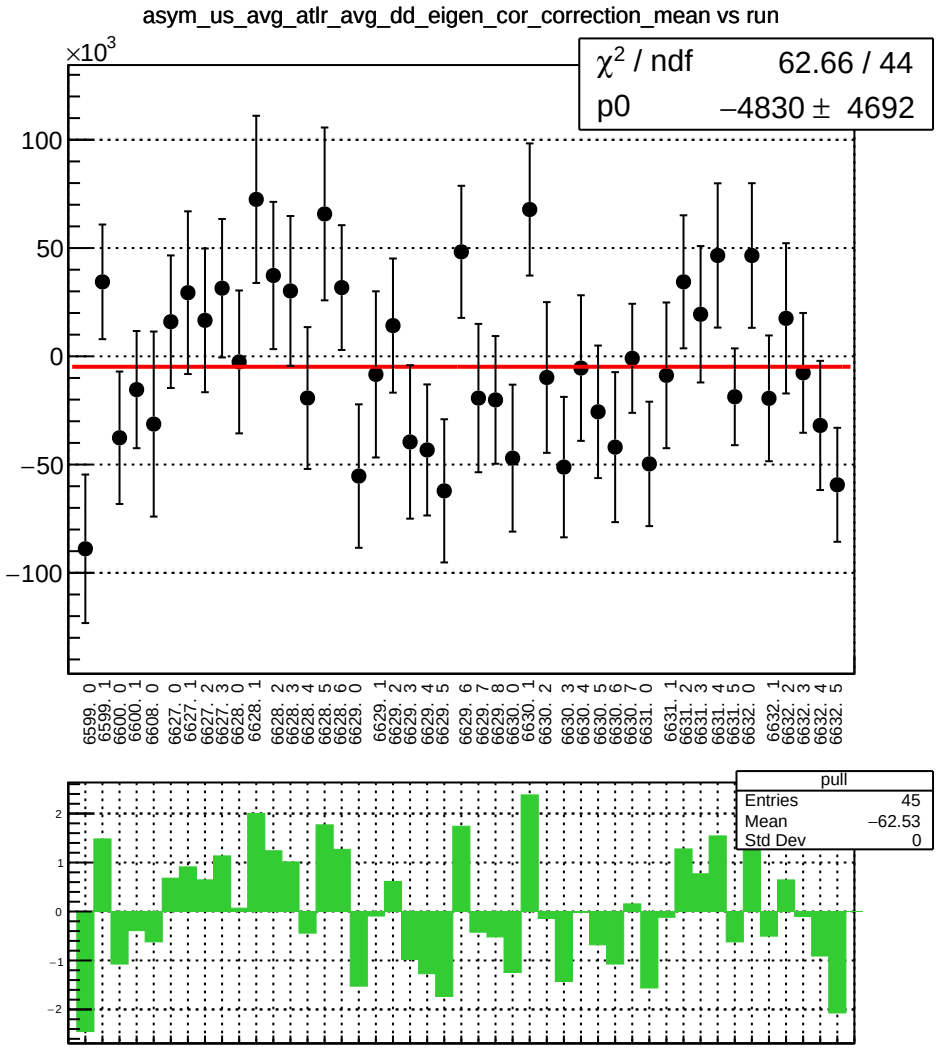
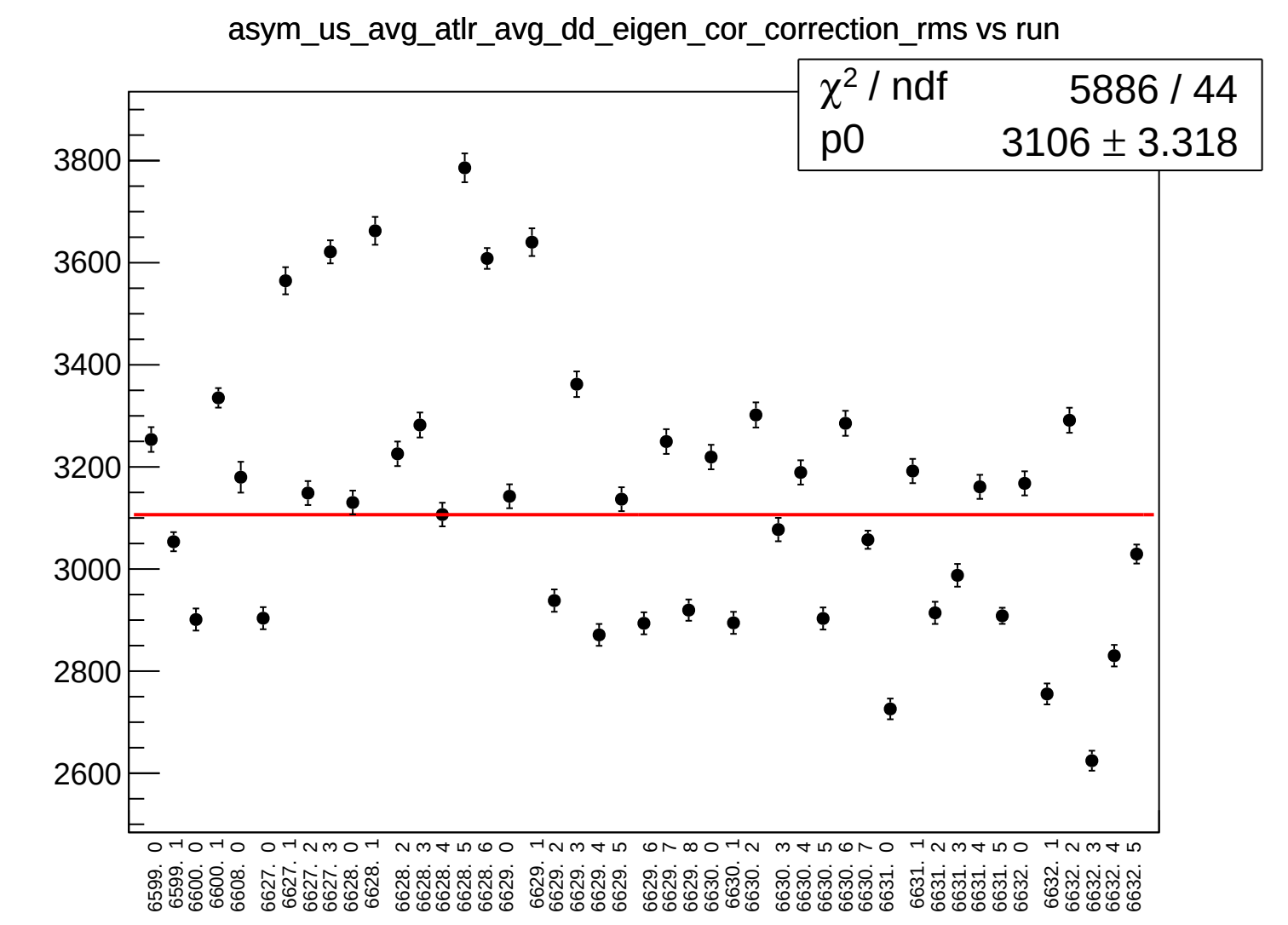
6632. 5


asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 62.66 / 44
p0 −4830 ± 4692
100
50
0
−50
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −62.53
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.0199
Std Dev 1.18
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 5886 / 44
p0 3106 ± 3.318
3800
3600
3400
3200
3000
2800
2600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6629. 0
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6629. 4
6629. 5
6629. 6
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6629. 8
6630. 0
6630. 1
6630. 2
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6630. 4
6630. 5
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6631. 1
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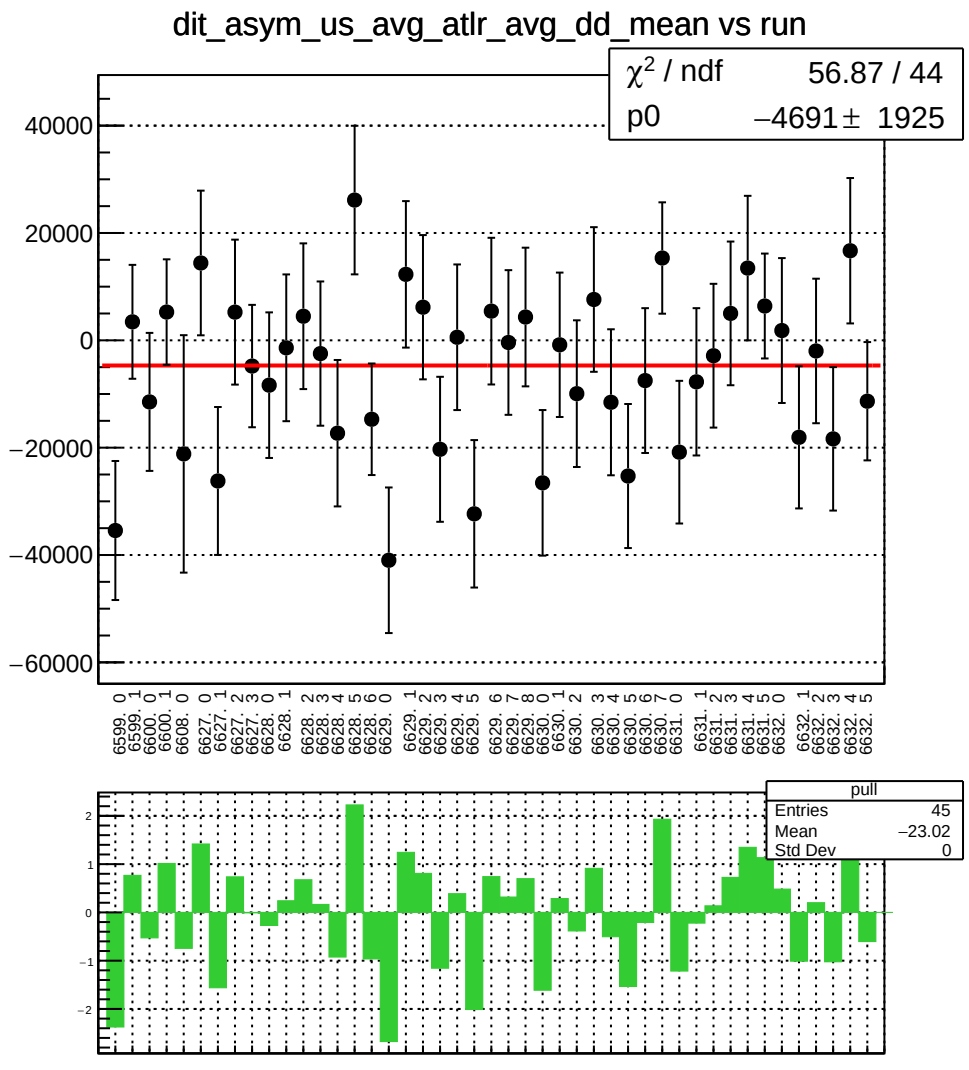
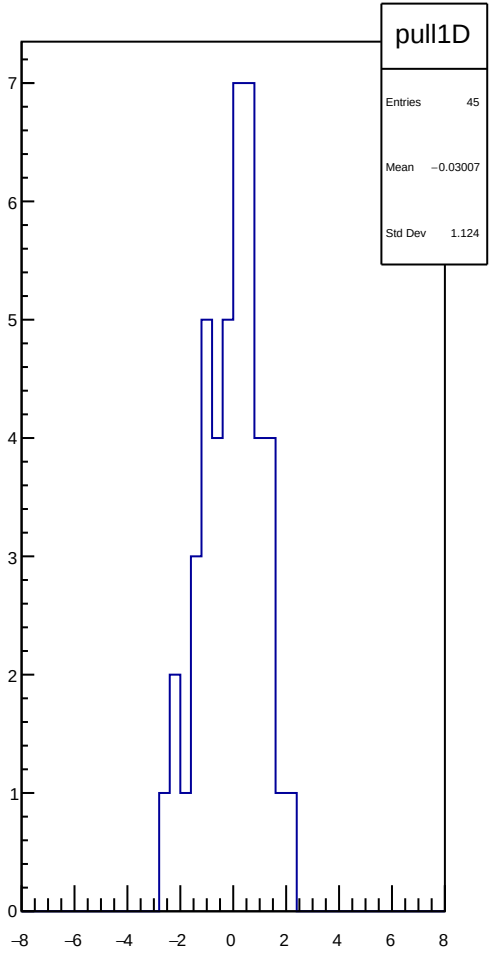
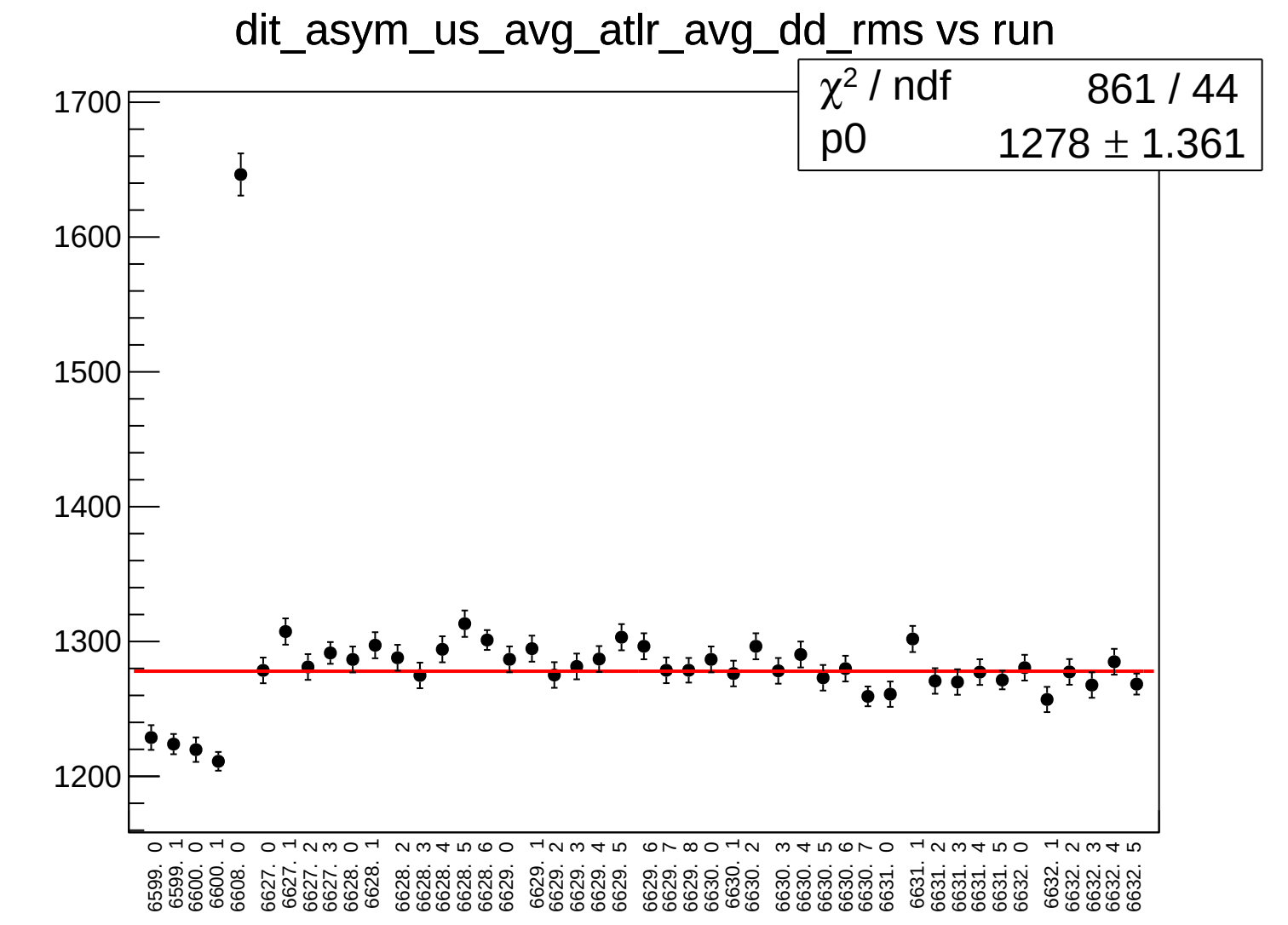
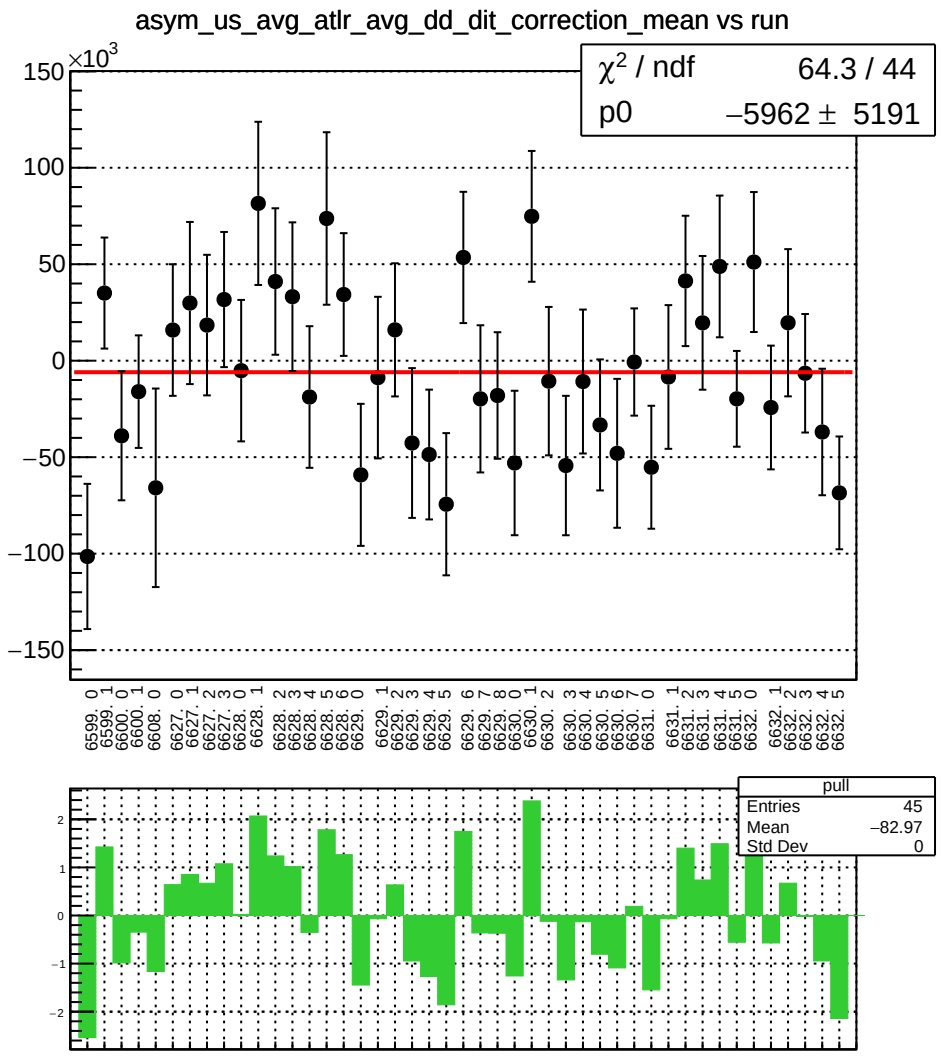
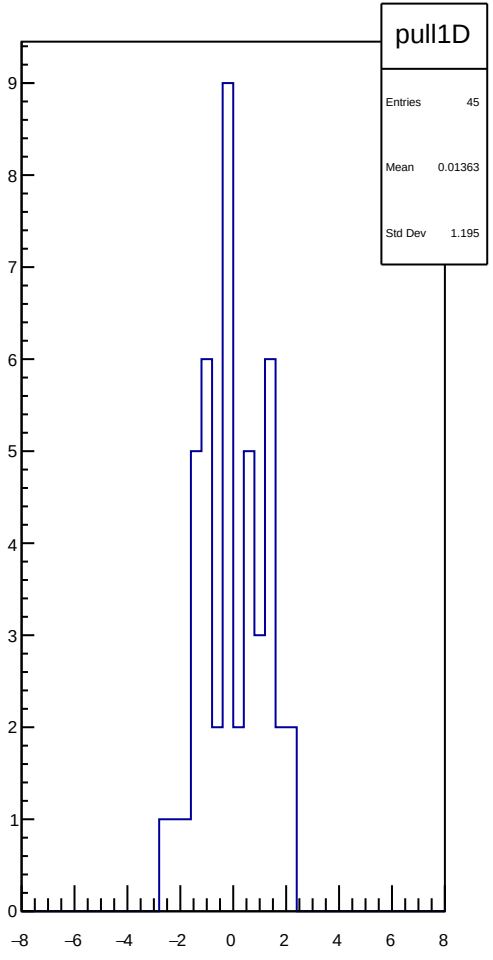
6632. 5

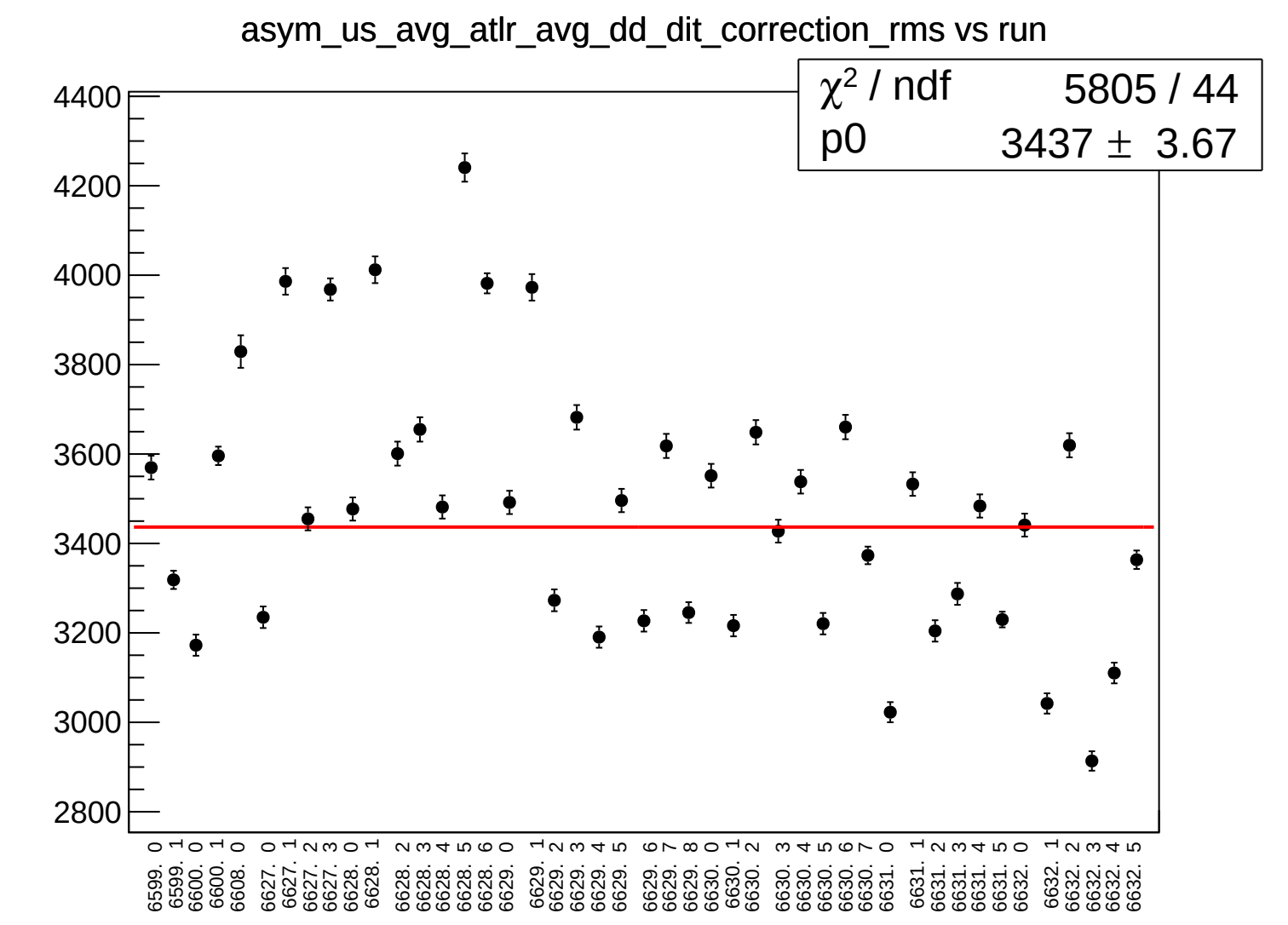

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 56.87 / 44
p0 −4691 ± 1925
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −23.02
Std Dev 0
2
1
0
−1
−2

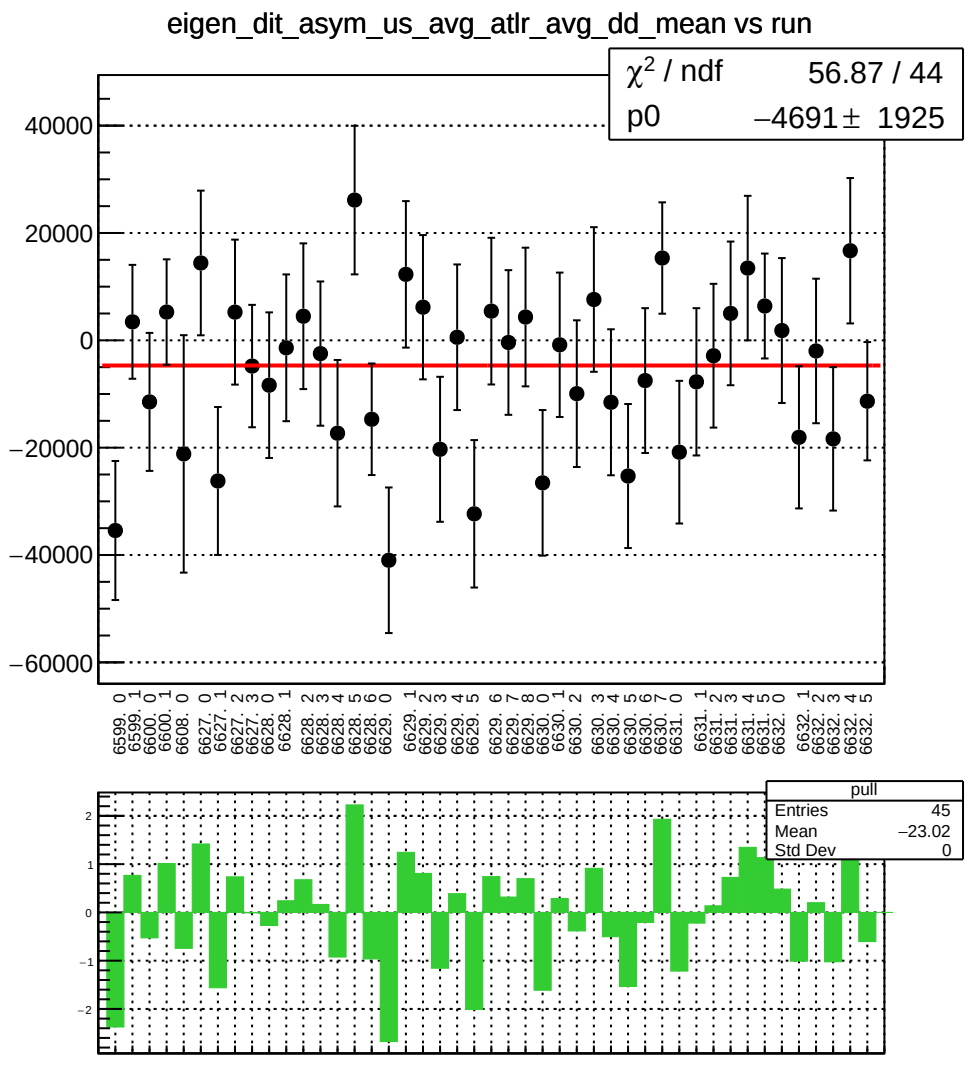

pull1D
Entries 45
Mean −0.03007
Std Dev 1.124
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

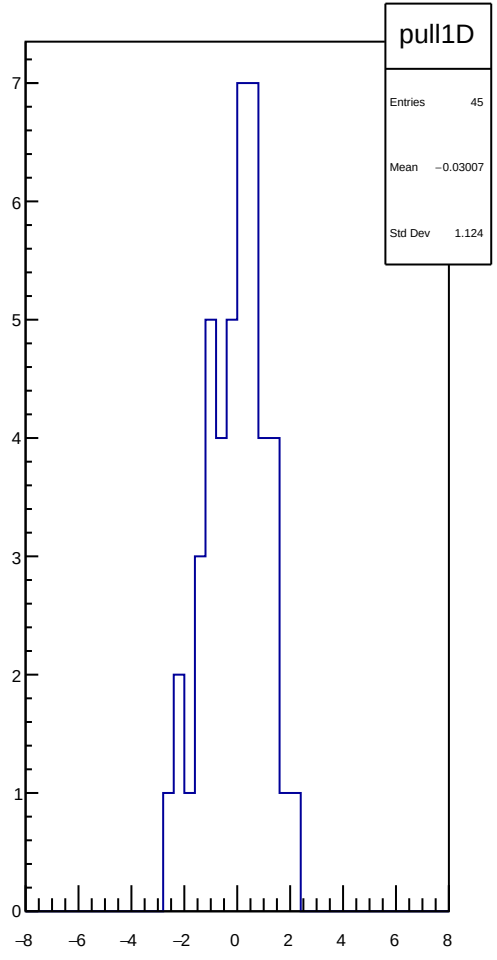

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 861 / 44
p0 1278 ± 1.361
1700
1600
1500
1400
1300
1200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

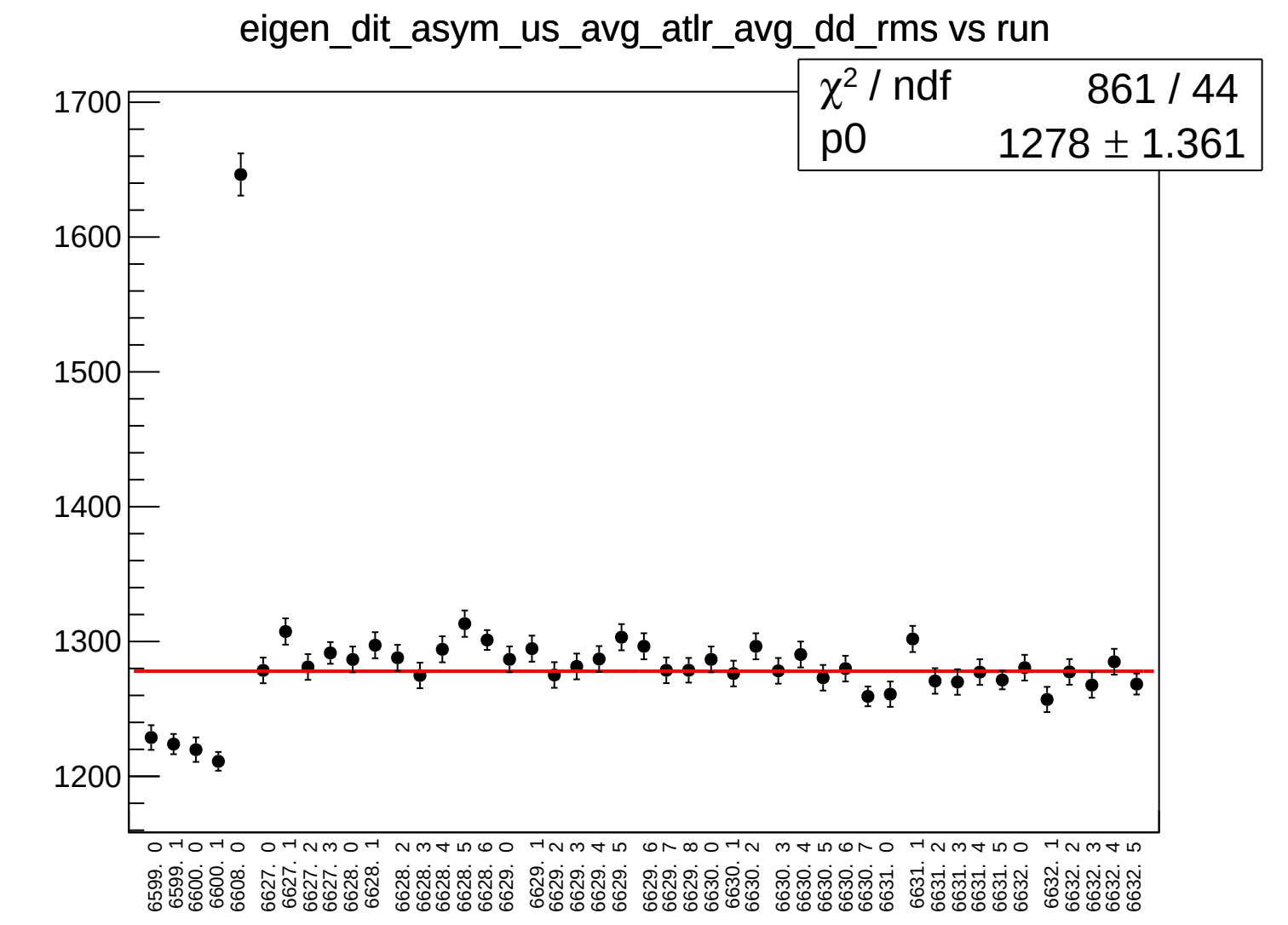

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
χ² / ndf 64.3 / 44
p0 −5962 ± 5191
×10³
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −82.97
Std Dev 0
2
1
0
−1
−2

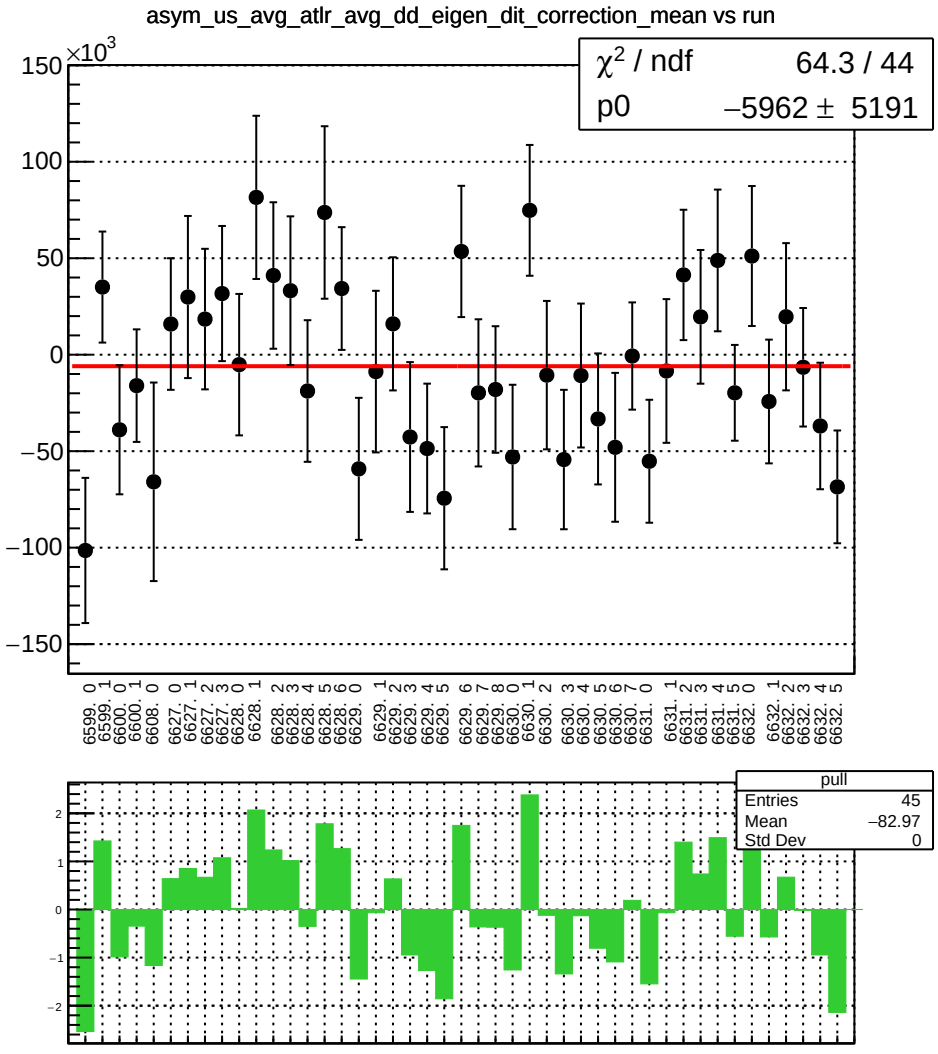

pull1D
Entries 45
Mean 0.01363
Std Dev 1.195
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

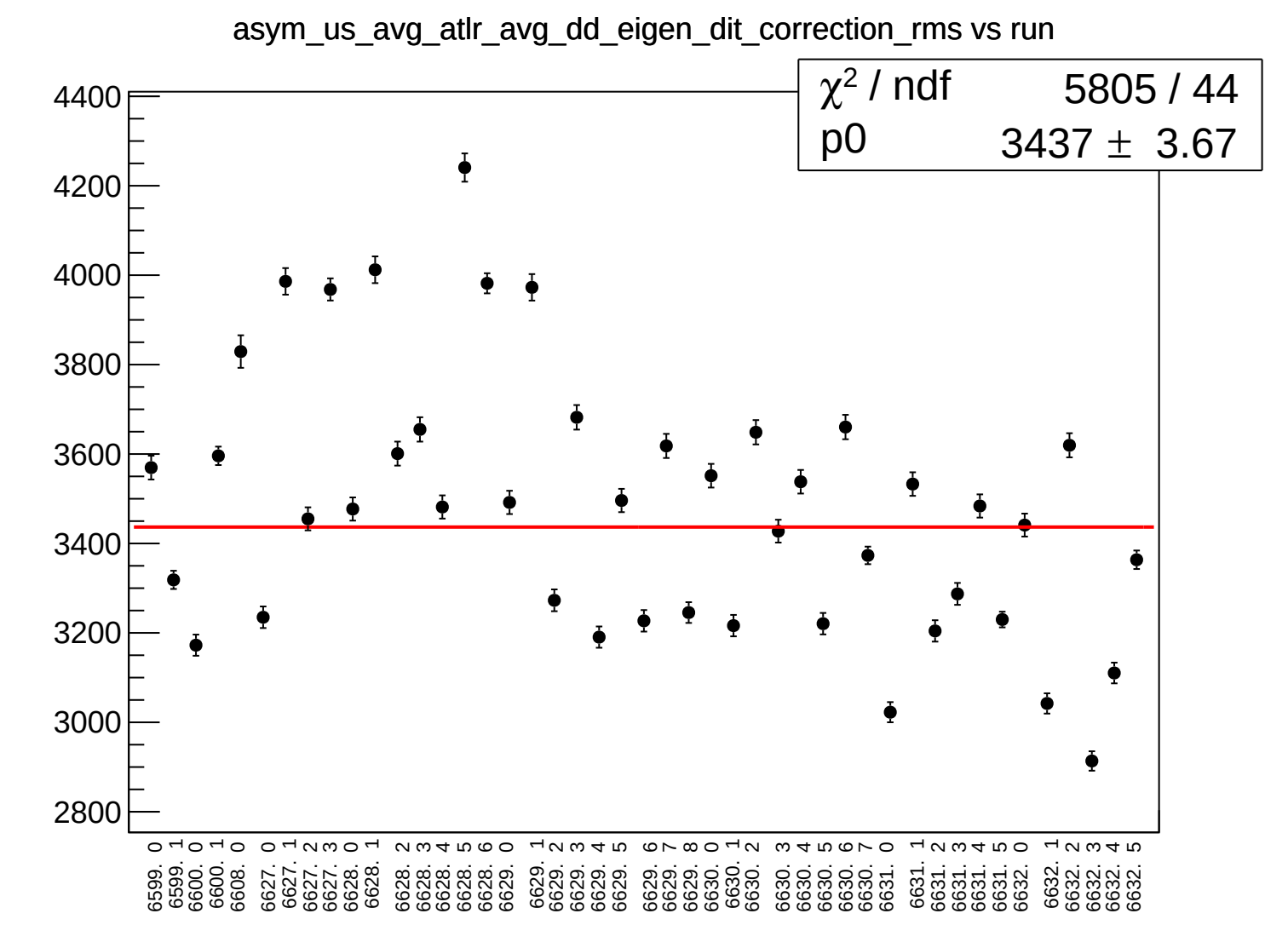

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 5805 / 44
p0 3437 ± 3.67
4400
4200
4000
3800
3600
3400
3200
3000
2800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

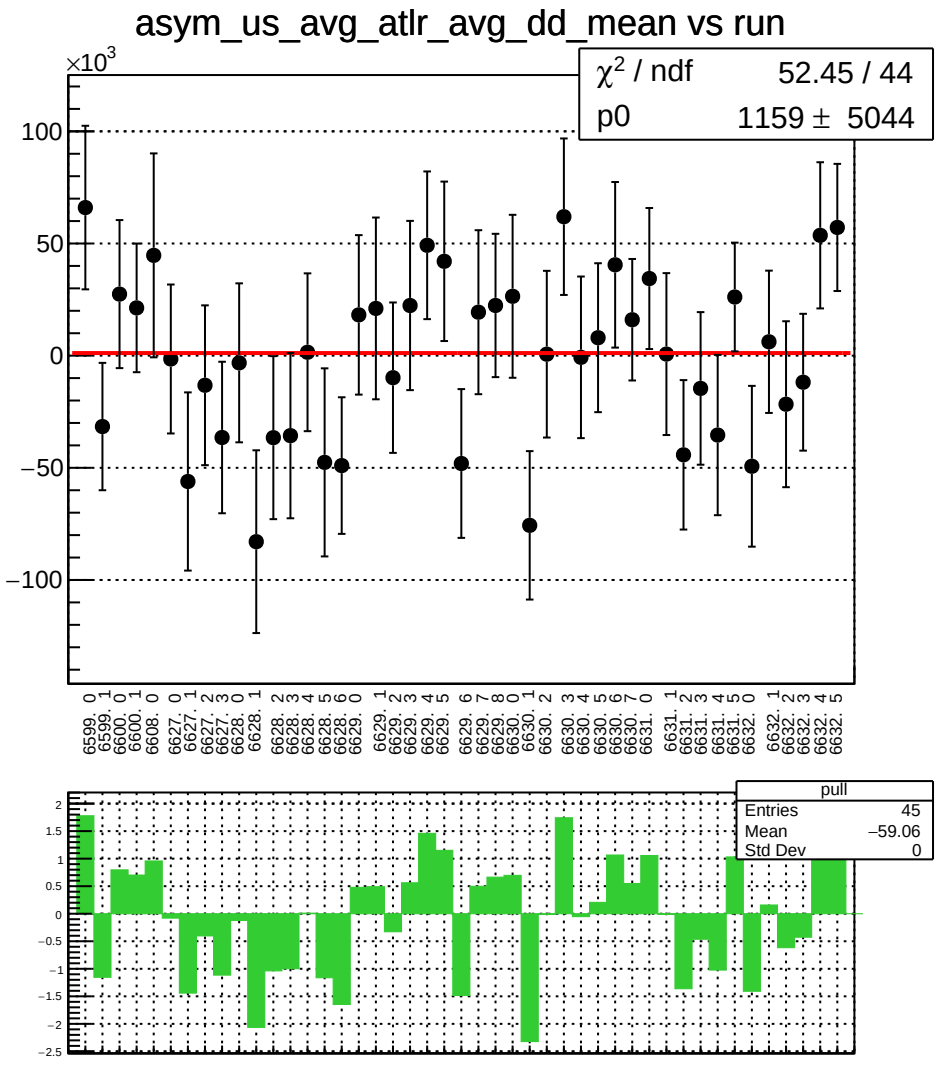

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 56.87 / 44
p0 −4691 ± 1925
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −23.02
Std Dev 0
2
1
0
−1
−2

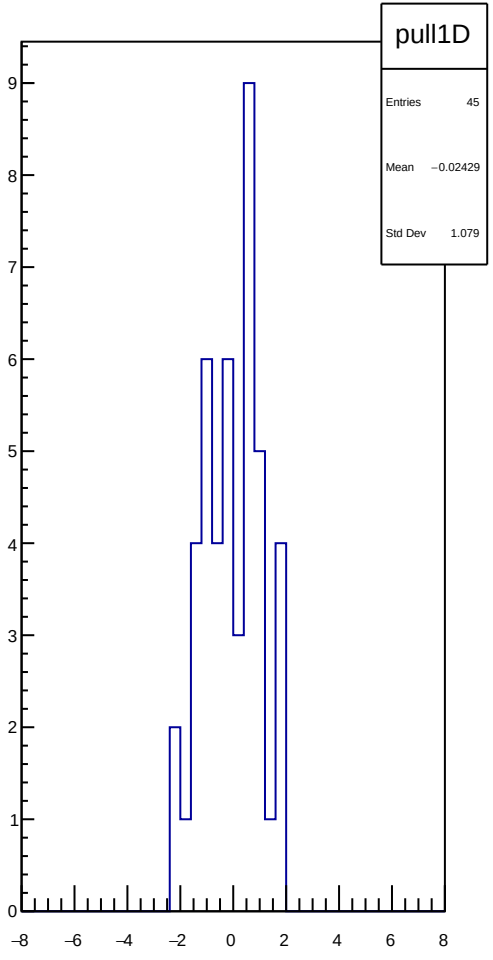

pull1D
Entries 45
Mean −0.03007
Std Dev 1.124
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

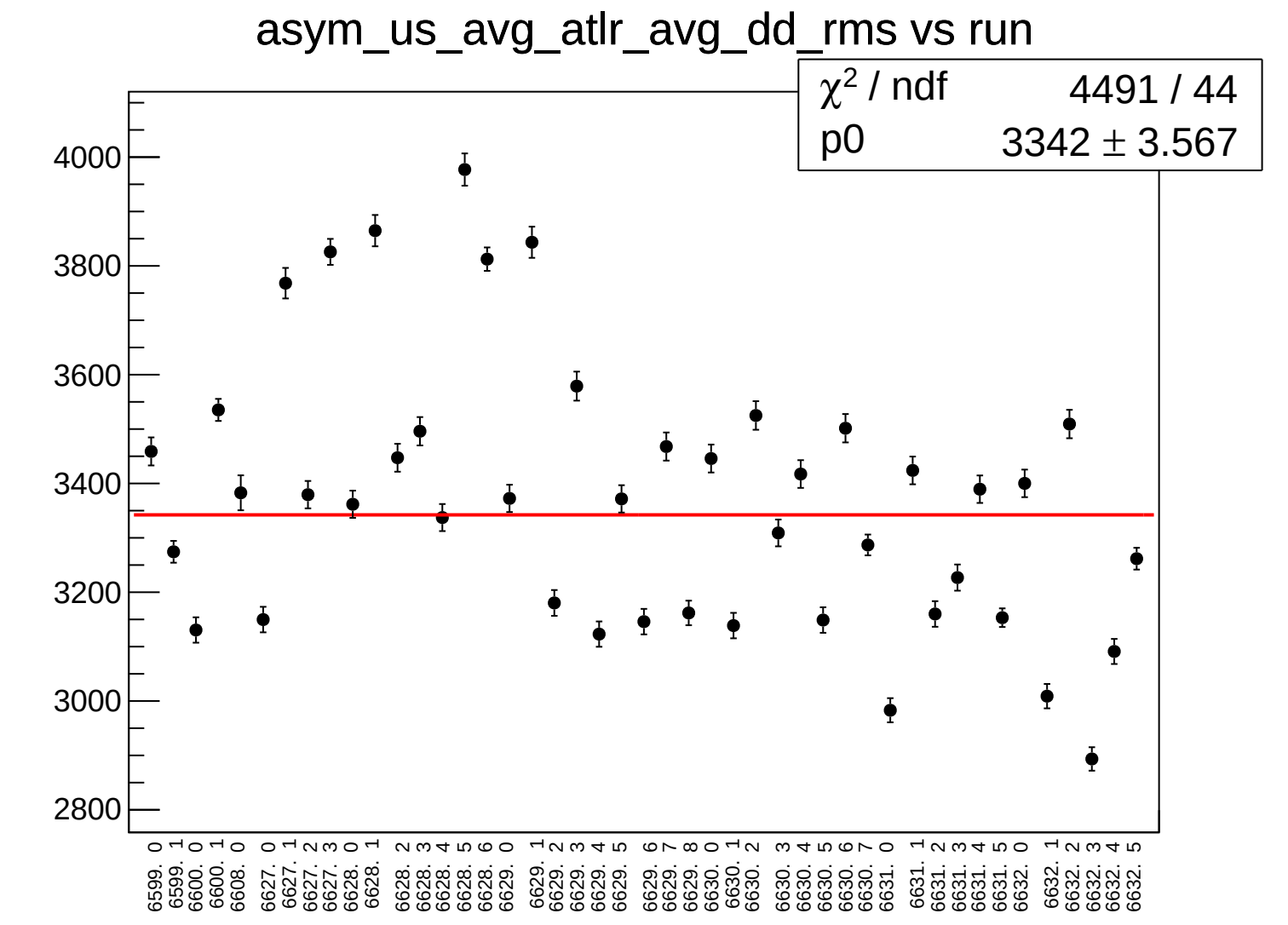

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 861 / 44
p0 1278 ± 1.361
1700
1600
1500
1400
1300
1200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

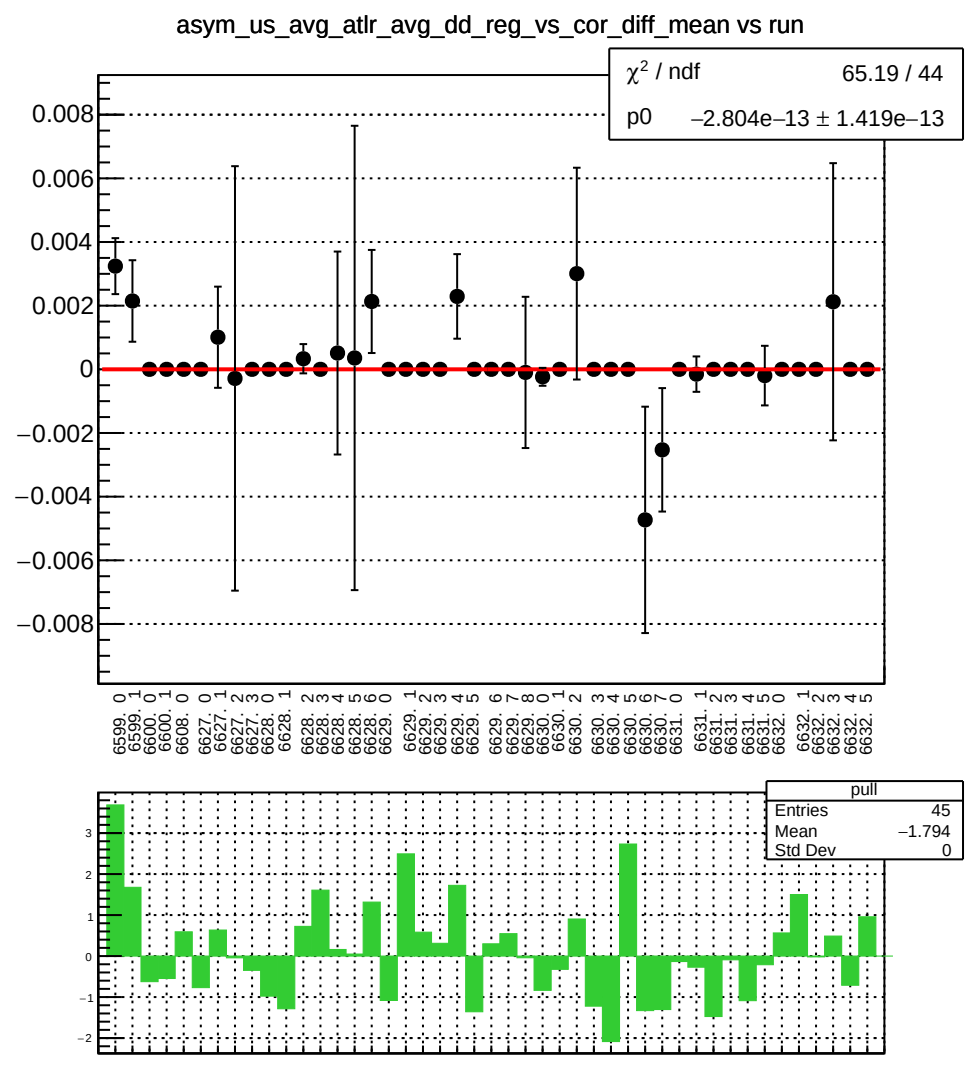

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 64.3 / 44
p0 −5962 ± 5191
×10³
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −82.97
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01363
Std Dev 1.195
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

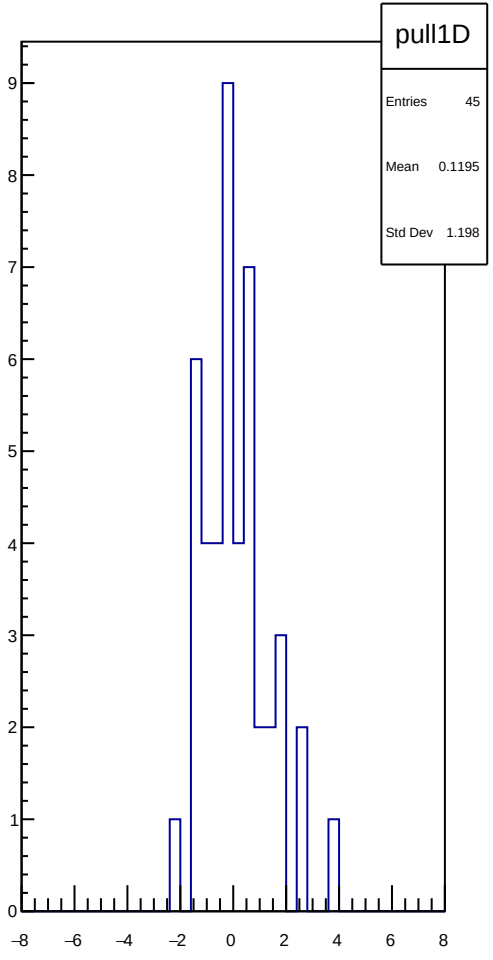

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 5805 / 44
p0 3437 ± 3.67
4400
4200
4000
3800
3600
3400
3200
3000
2800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

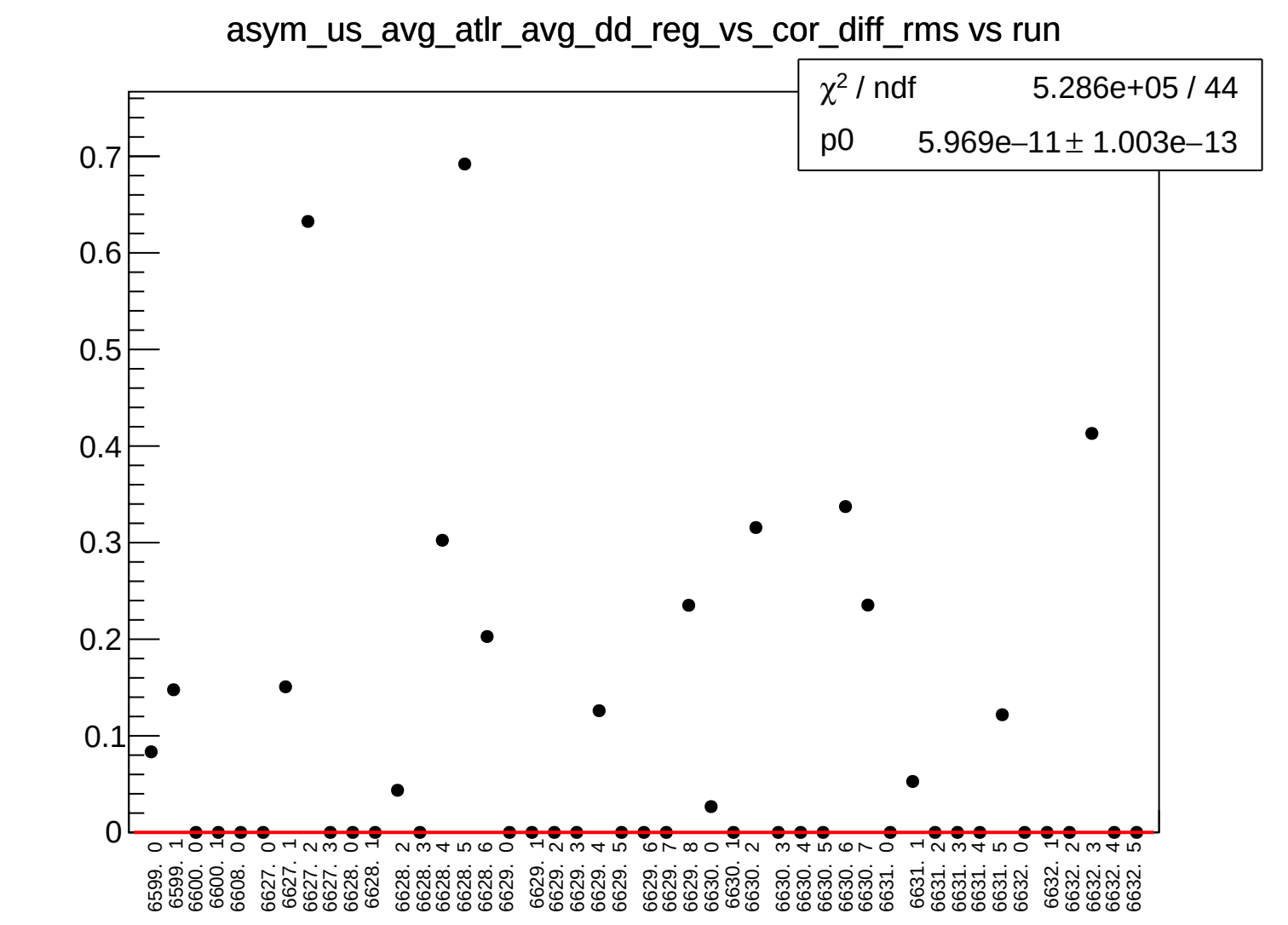

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ² / ndf 52.45 / 44
p0 1159 ± 5044
100
50
0
−50
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −59.06
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

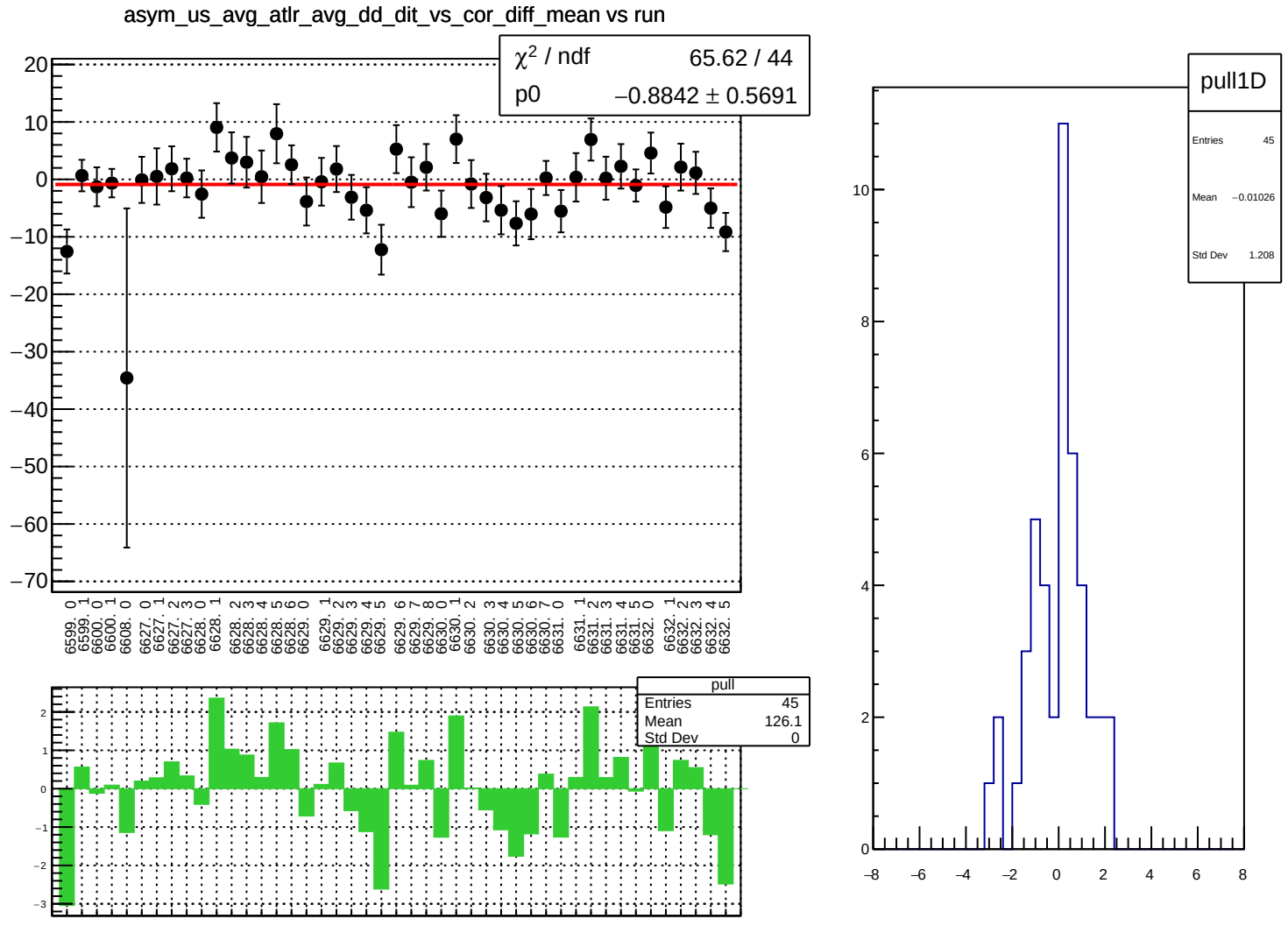

pull1D
Entries 45
Mean −0.02429
Std Dev 1.079
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

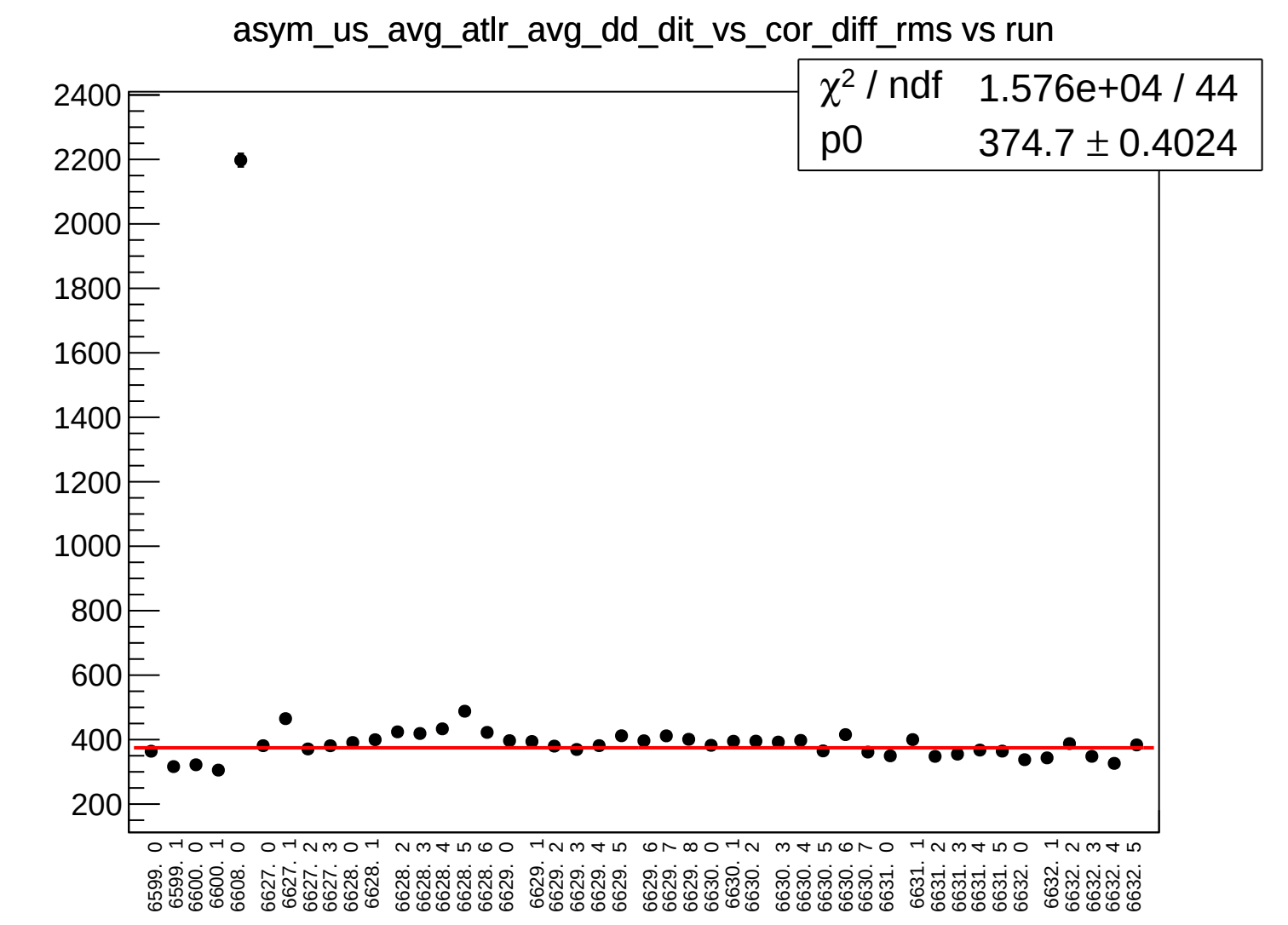

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 4491 / 44
p0 3342 ± 3.567
4000
3800
3600
3400
3200
3000
2800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

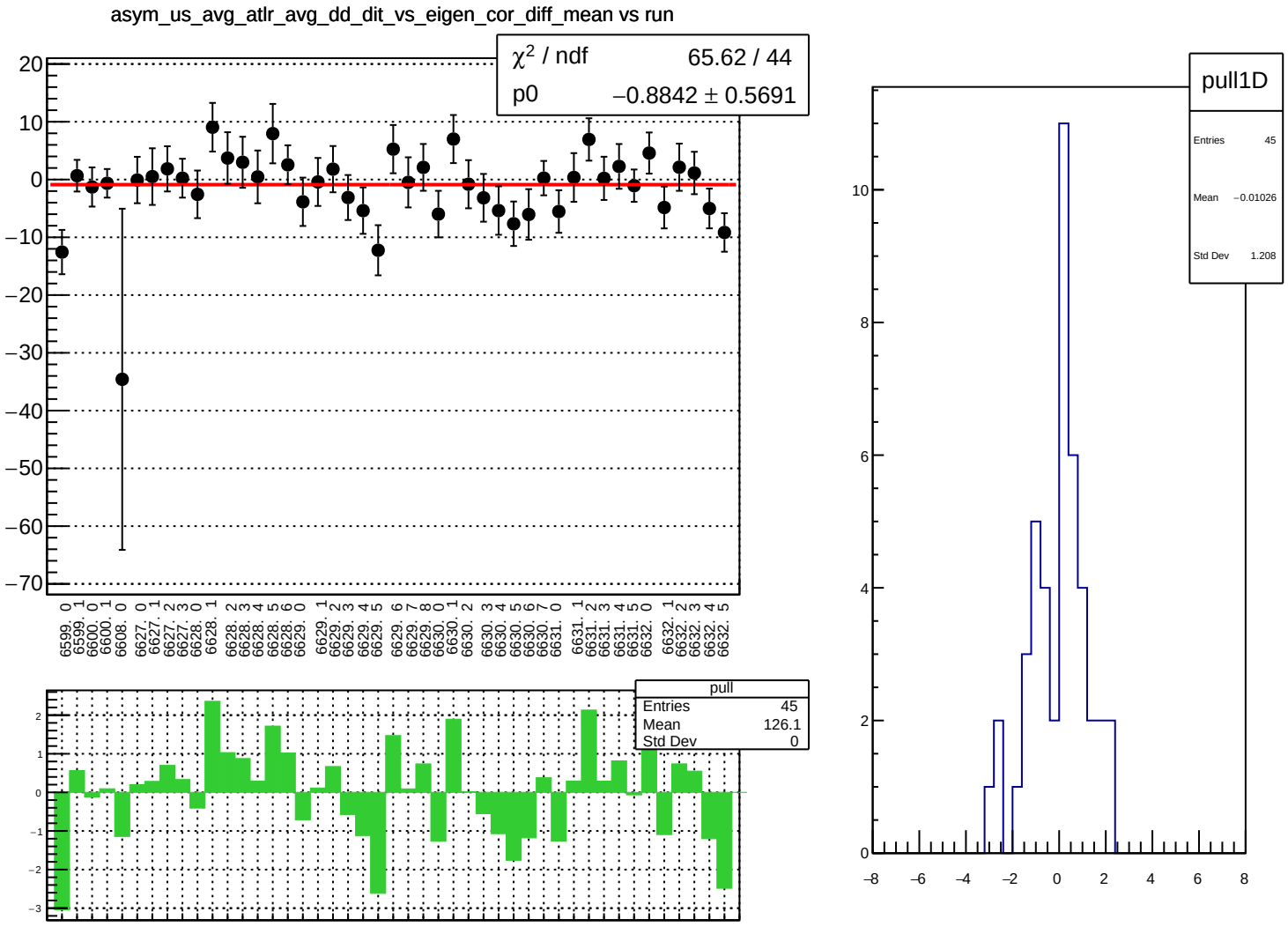

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 65.19 / 44
p0 −2.804e−13 ± 1.419e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −1.794
Std Dev 0
3
2
1
0
−1
−2

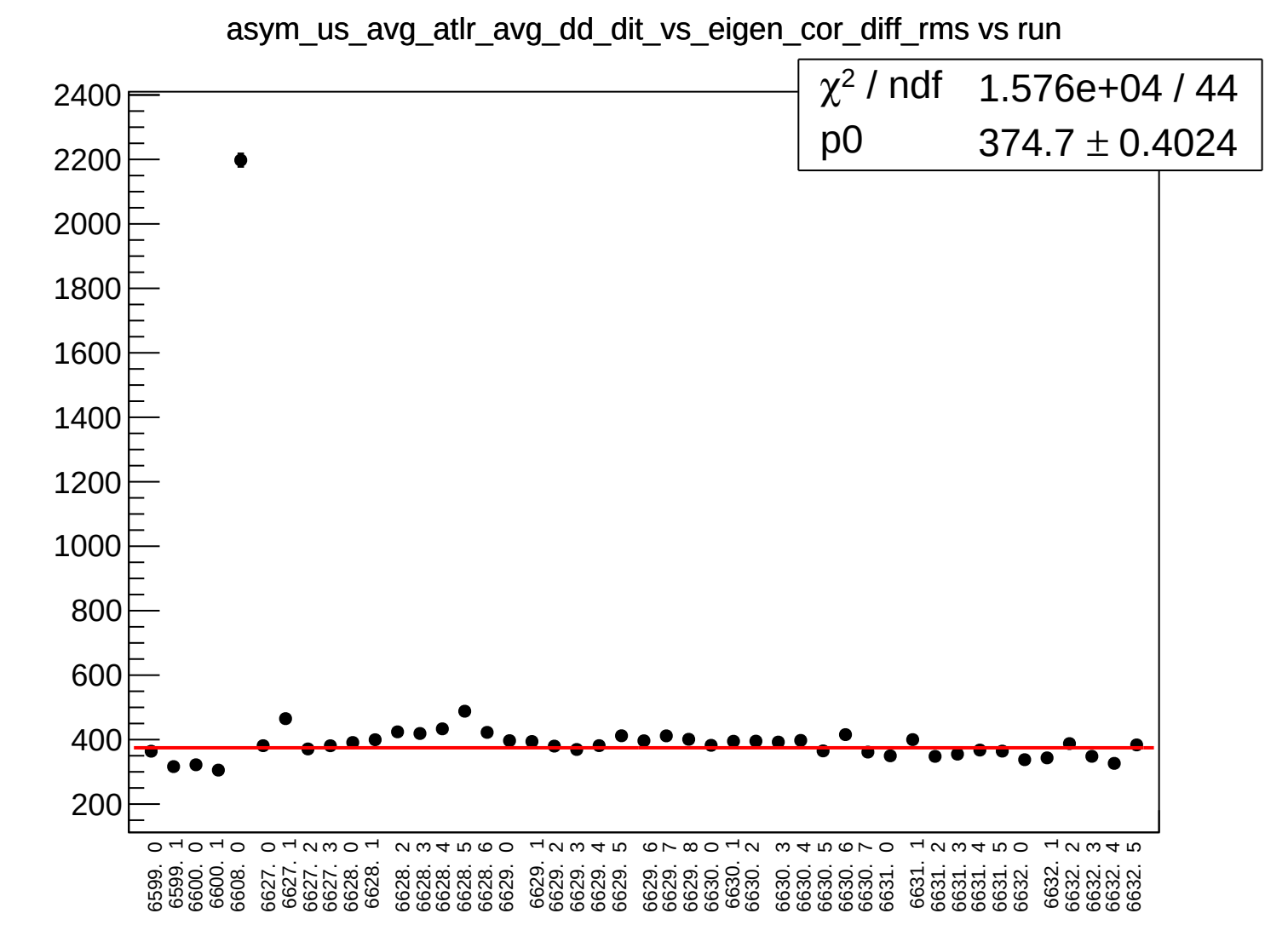

pull1D
Entries 45
Mean 0.1195
Std Dev 1.198
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

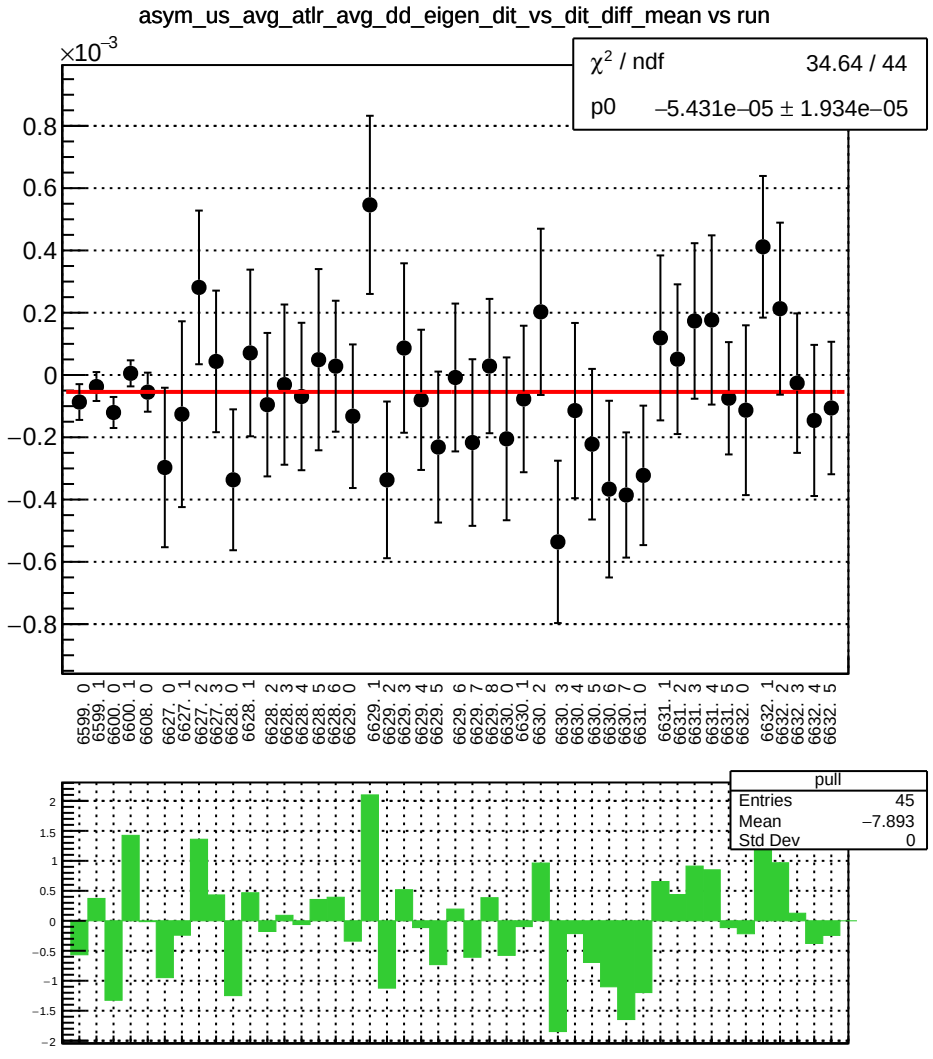

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.286e+05 / 44
p0 5.969e−11 ± 1.003e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

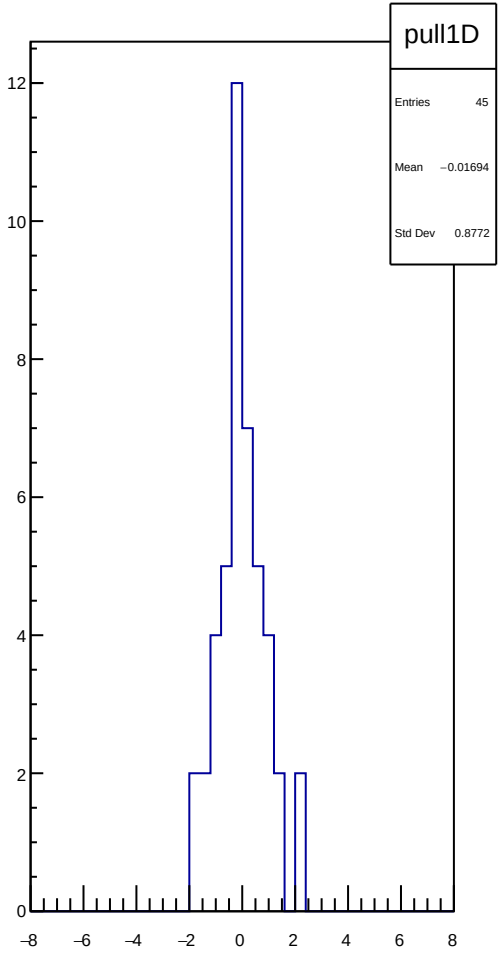

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 65.62 / 44
p0 −0.8842 ± 0.5691
pull
Entries 45
Mean 126.1
Std Dev 0
pull1D
Entries 45
Mean −0.01026
Std Dev 1.208

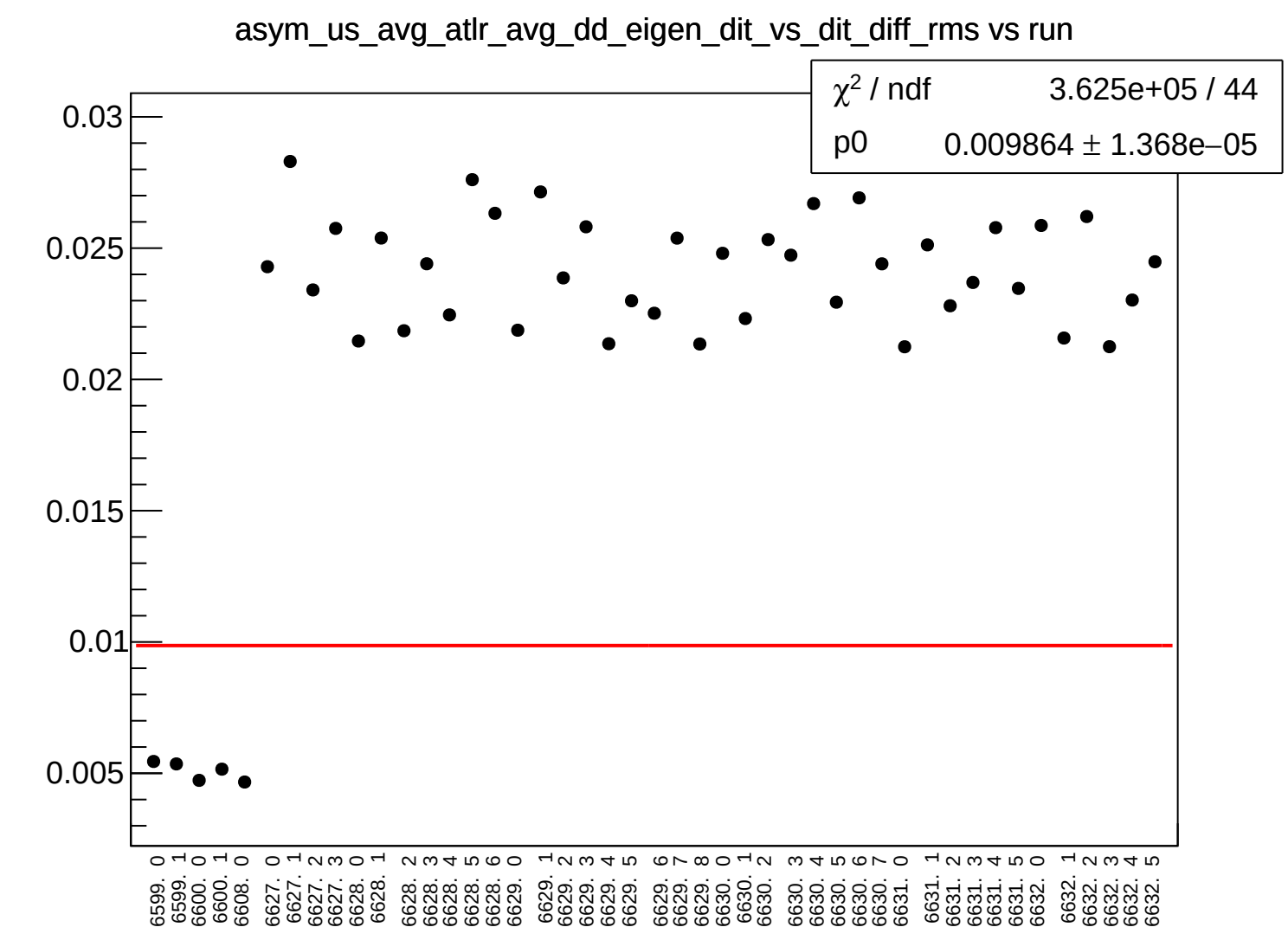

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.576e+04 / 44
p0 374.7 ± 0.4024
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

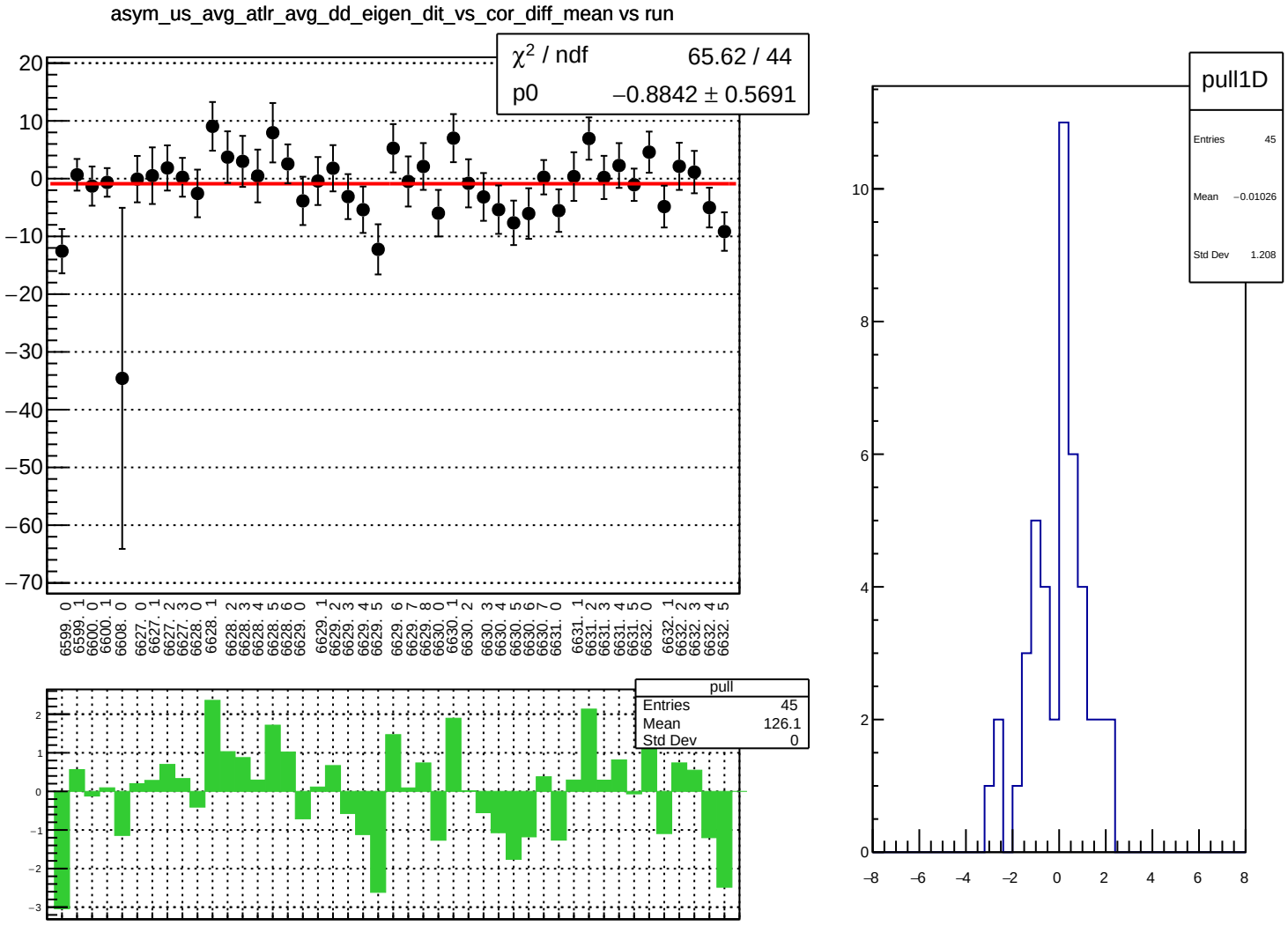

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.62 / 44
p0 −0.8842 ± 0.5691
pull
Entries 45
Mean 126.1
Std Dev 0
pull1D
Entries 45
Mean −0.01026
Std Dev 1.208

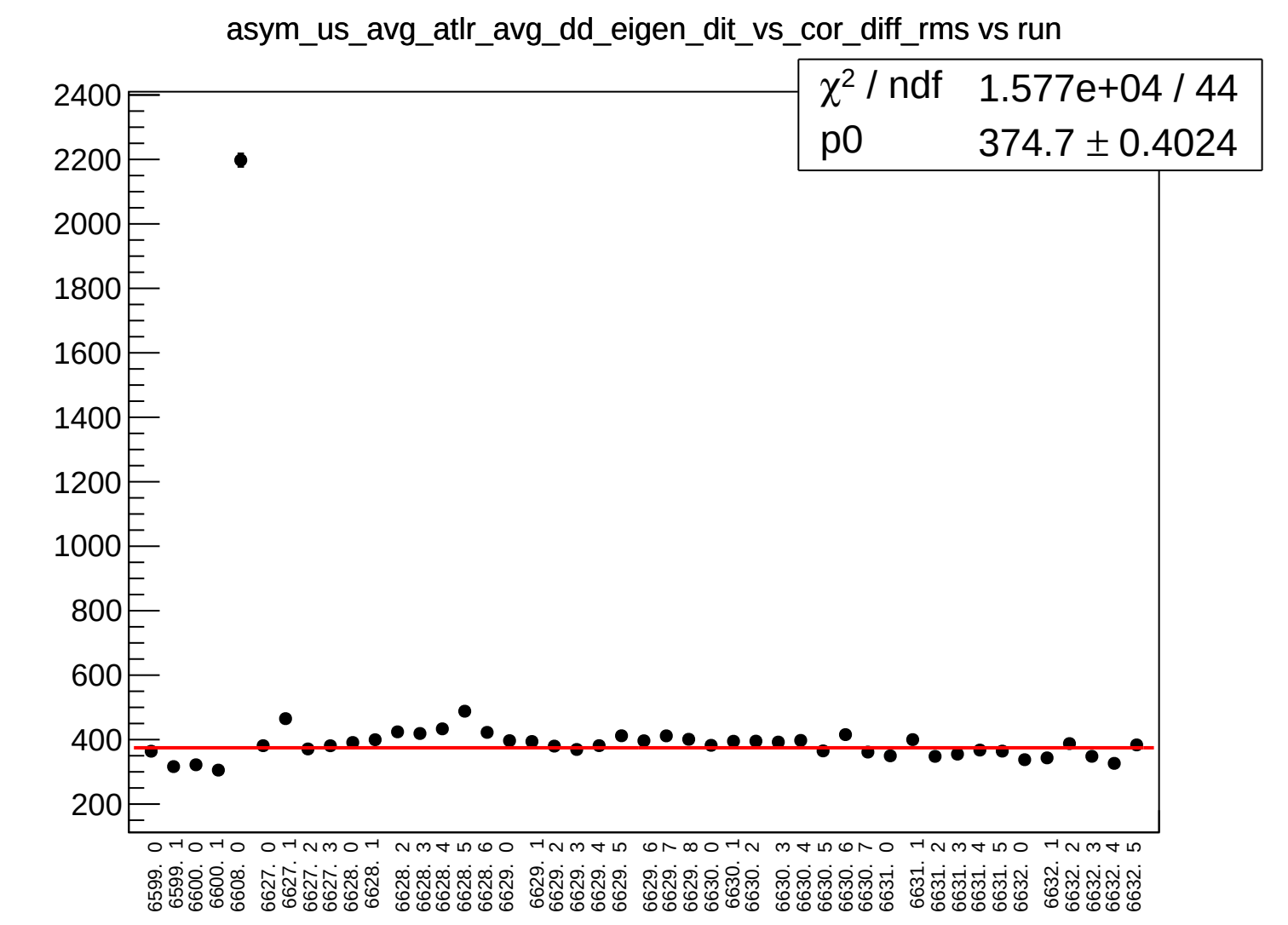

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.576e+04 / 44
p0 374.7 ± 0.4024
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

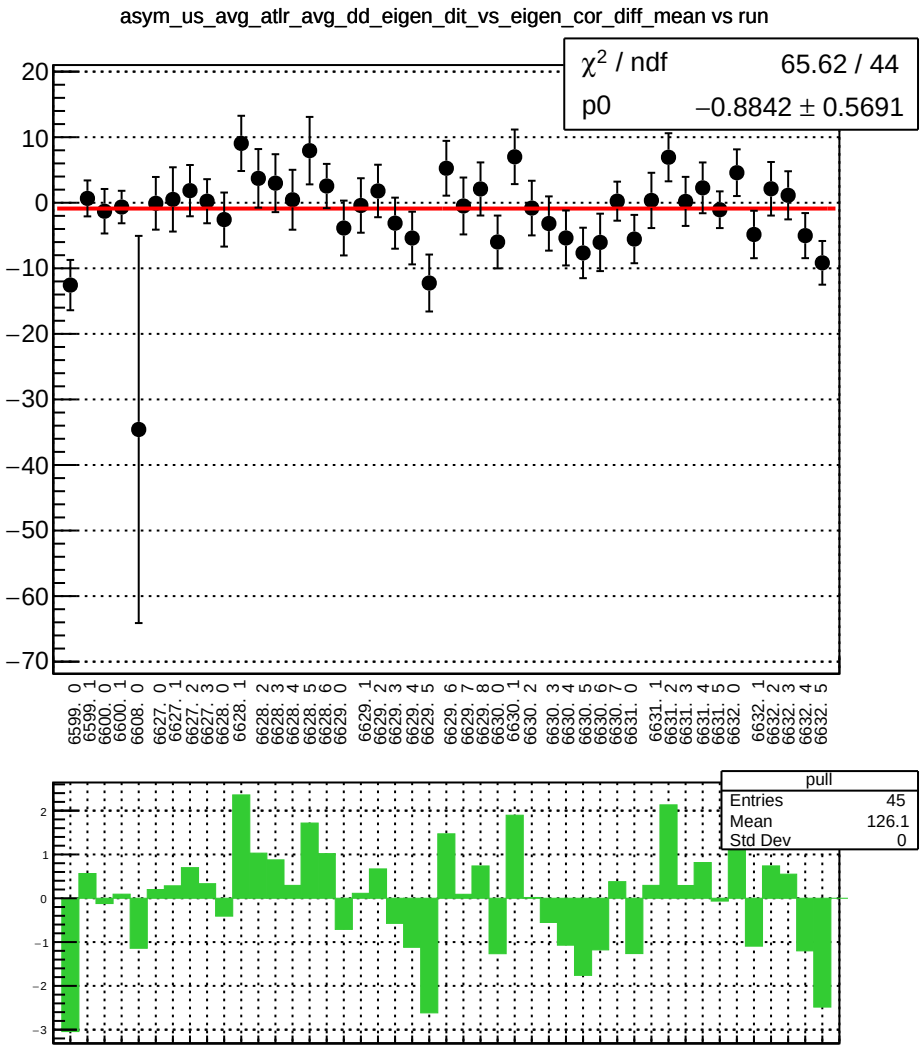

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 34.64 / 44
p0 −5.431e−05 ± 1.934e−05
pull
Entries 45
Mean −7.893
Std Dev 0

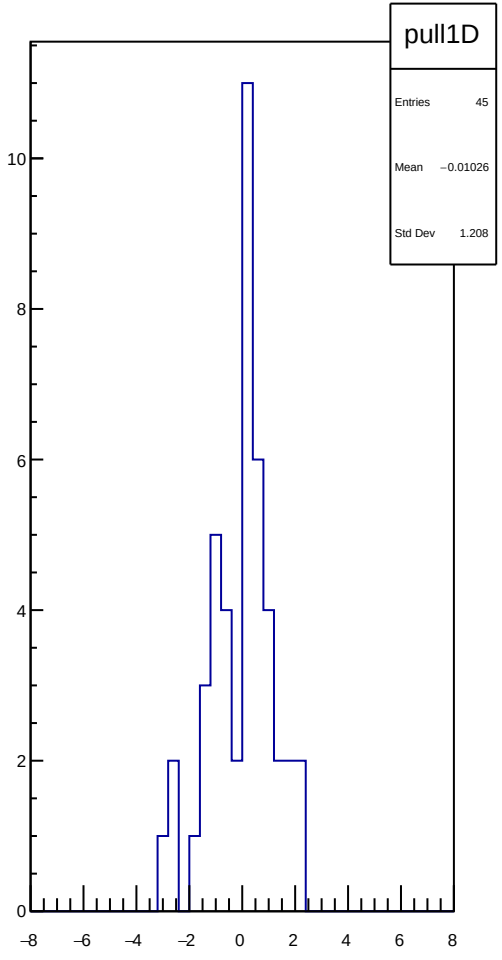

pull1D
Entries 45
Mean −0.01694
Std Dev 0.8772

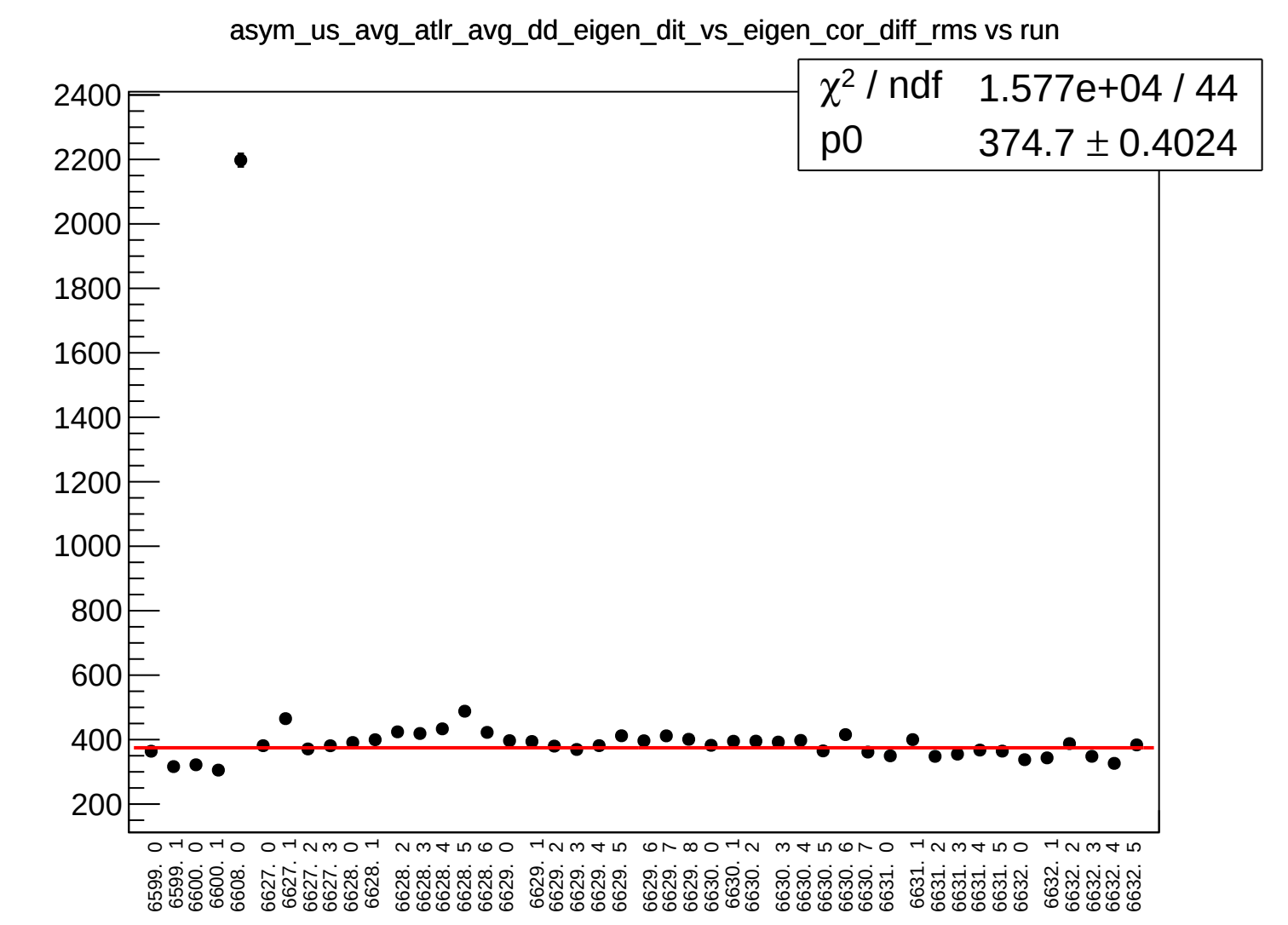

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.625e+05 / 44
p0 0.009864 ± 1.368e−05
0.03
0.025
0.02
0.015
0.01
0.005
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

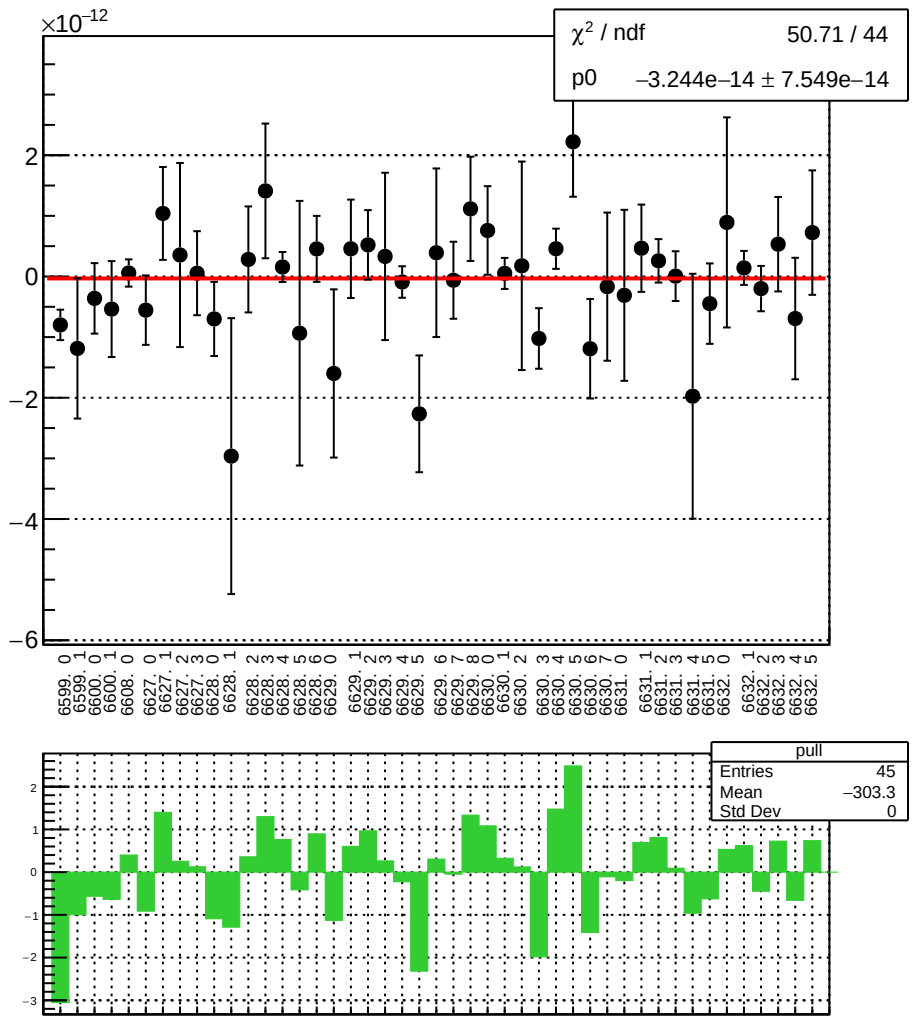

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65.62 / 44
p0 −0.8842 ± 0.5691
pull
Entries 45
Mean 126.1
Std Dev 0
pull1D
Entries 45
Mean −0.01026
Std Dev 1.208

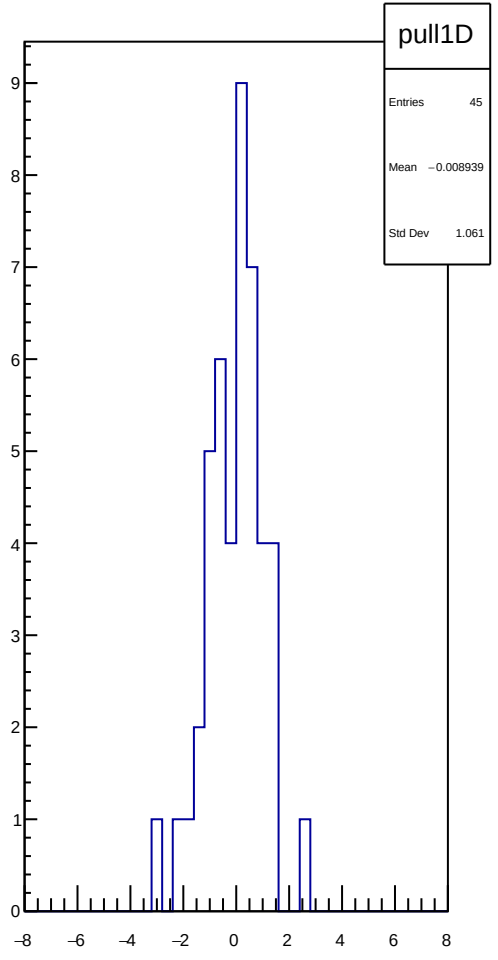

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.577e+04 / 44
p0 374.7 ± 0.4024
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

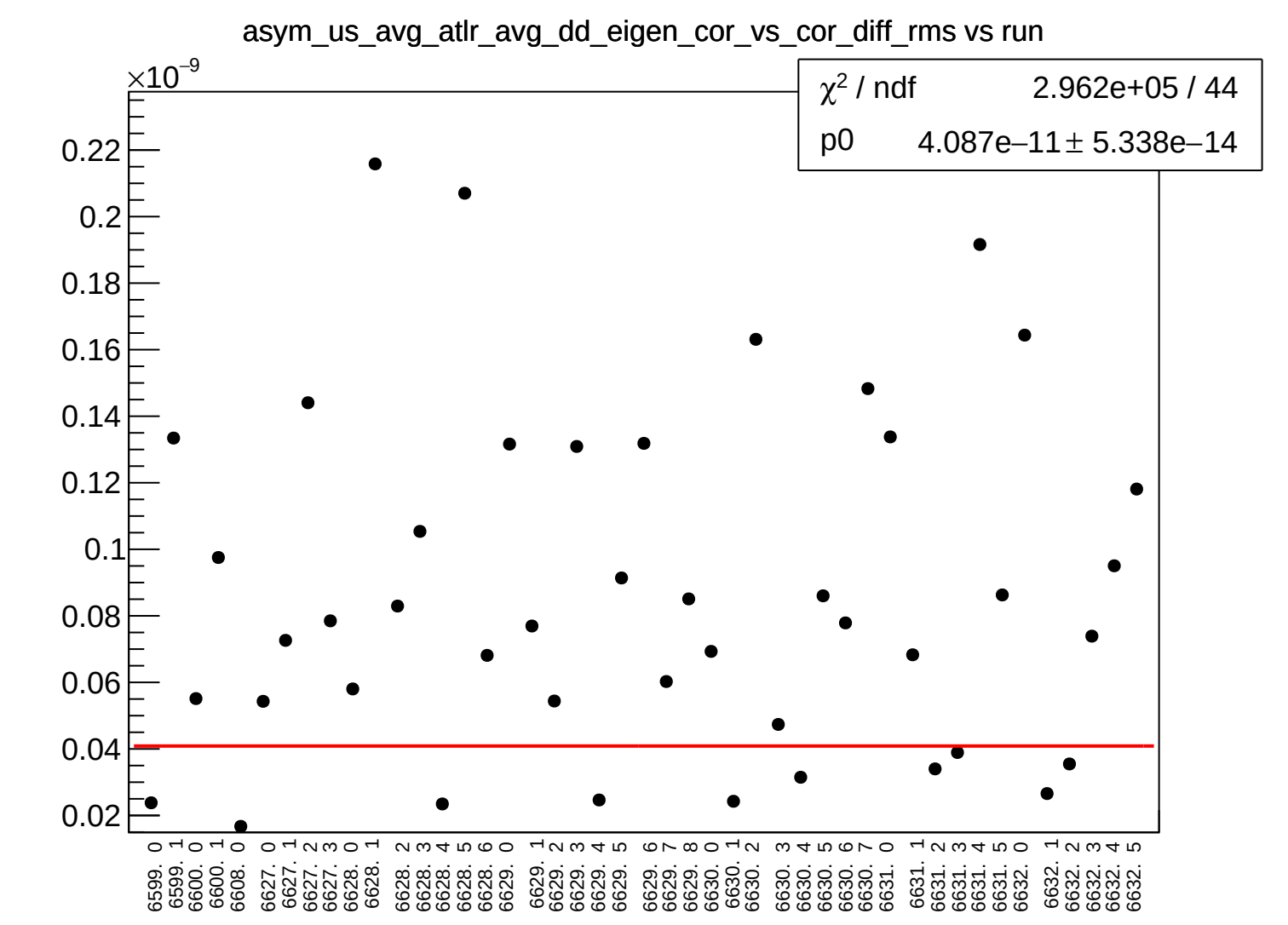

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.62 / 44
p0 −0.8842 ± 0.5691
pull
Entries 45
Mean 126.1
Std Dev 0

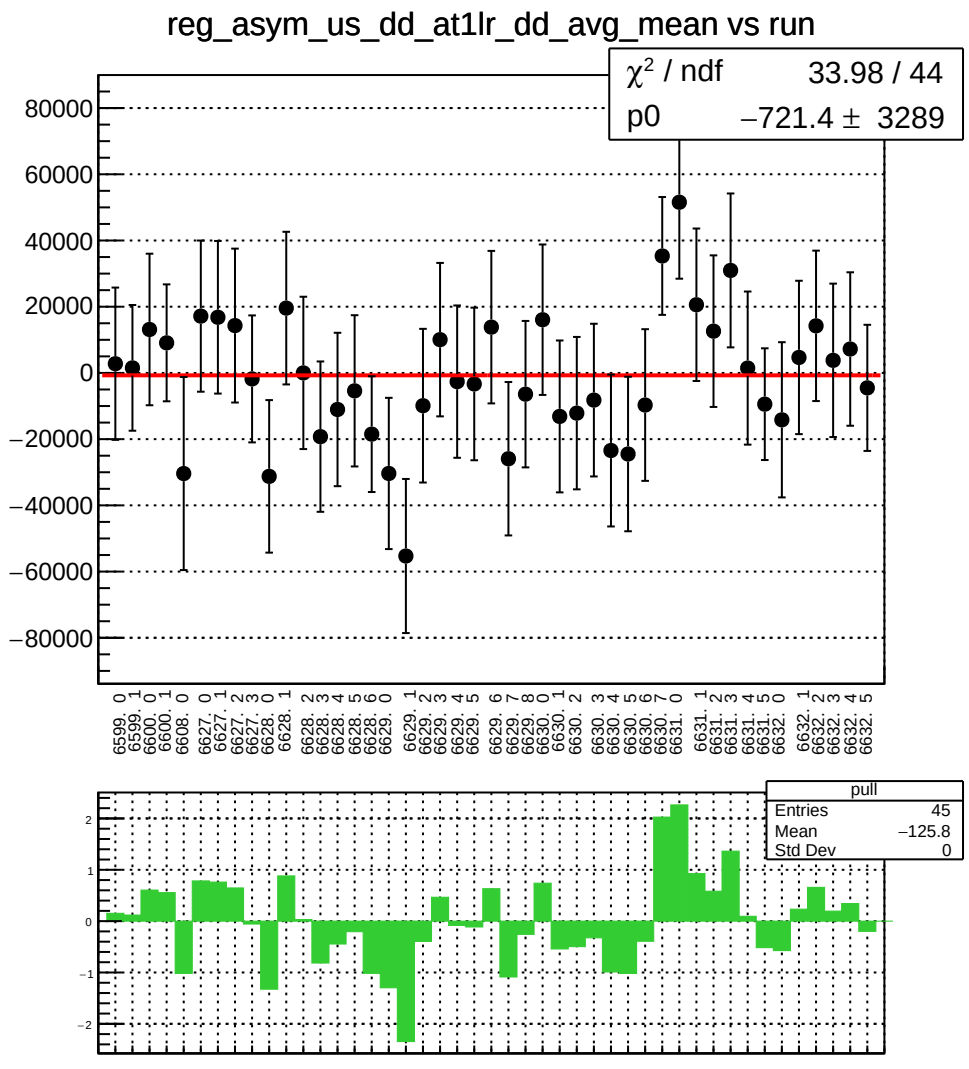

pull1D
Entries 45
Mean −0.01026
Std Dev 1.208

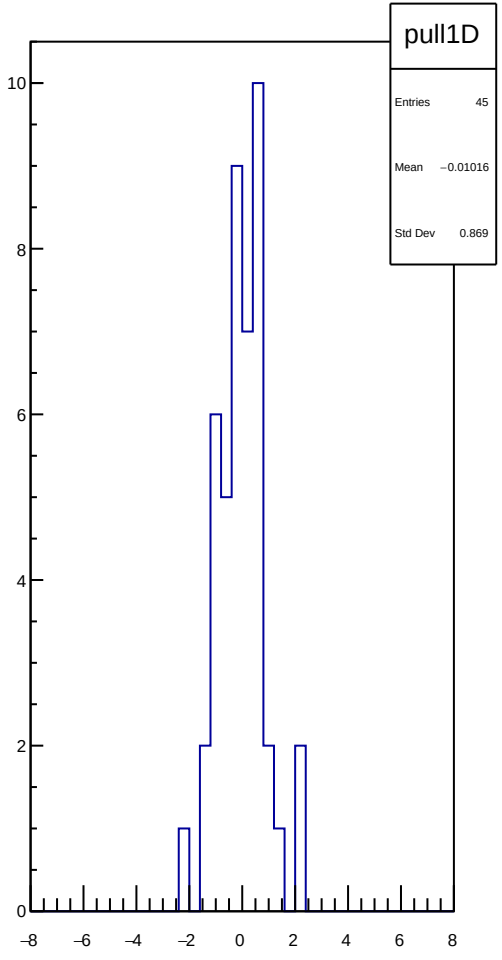

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.577e+04 / 44
p0 374.7 ± 0.4024
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

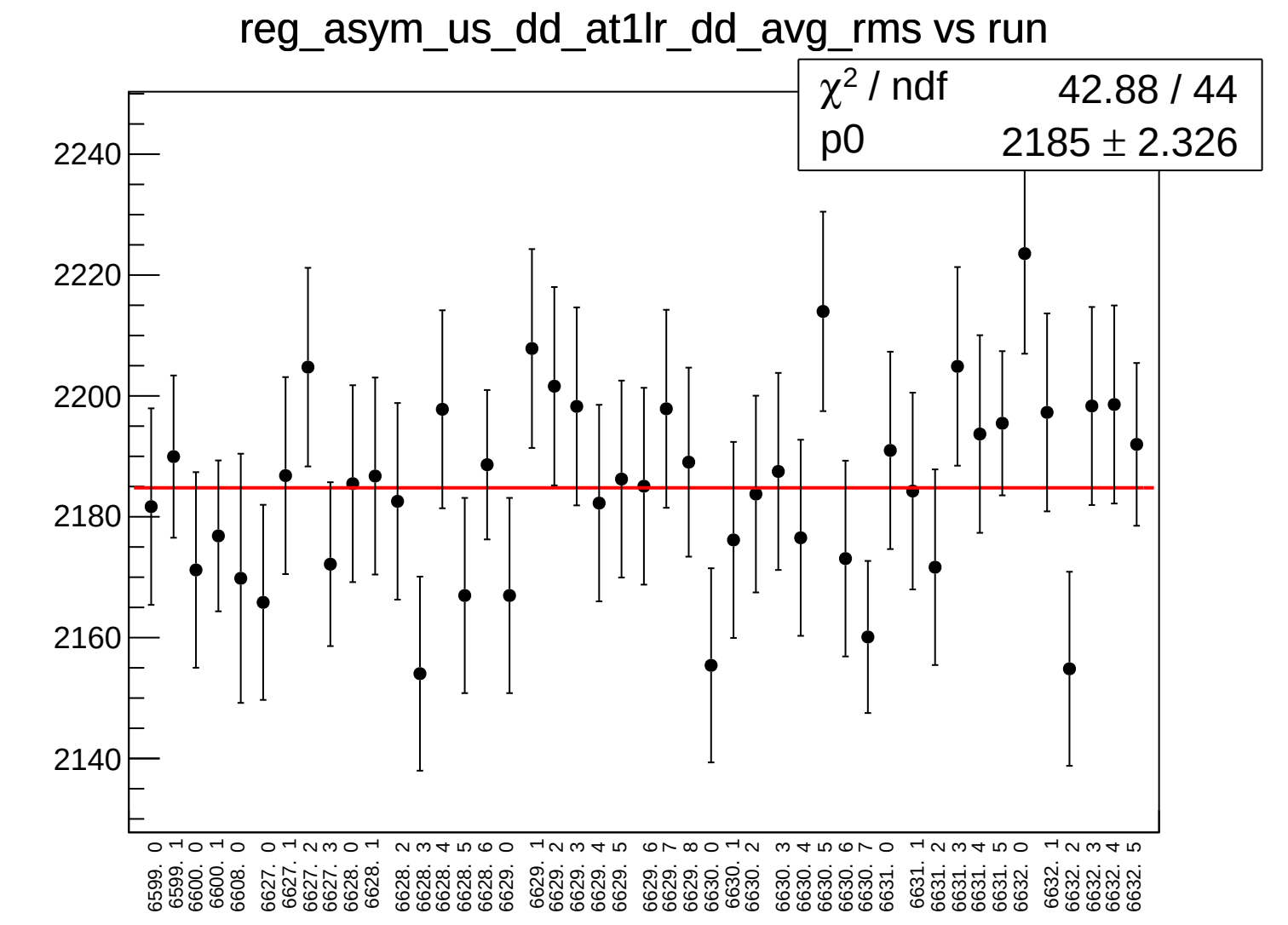

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 50.71 / 44
p0 −3.244e−14 ± 7.549e−14
pull
Entries 45
Mean −303.3
Std Dev 0


pull1D
Entries 45
Mean −0.008939
Std Dev 1.061


asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.962e+05 / 44
p0 4.087e−11 ± 5.338e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 33.98 / 44
p0 −721.4 ± 3289
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −125.8
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.01016
Std Dev 0.869
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 42.88 / 44
p0 2185 ± 2.326
2240
2220
2200
2180
2160
2140
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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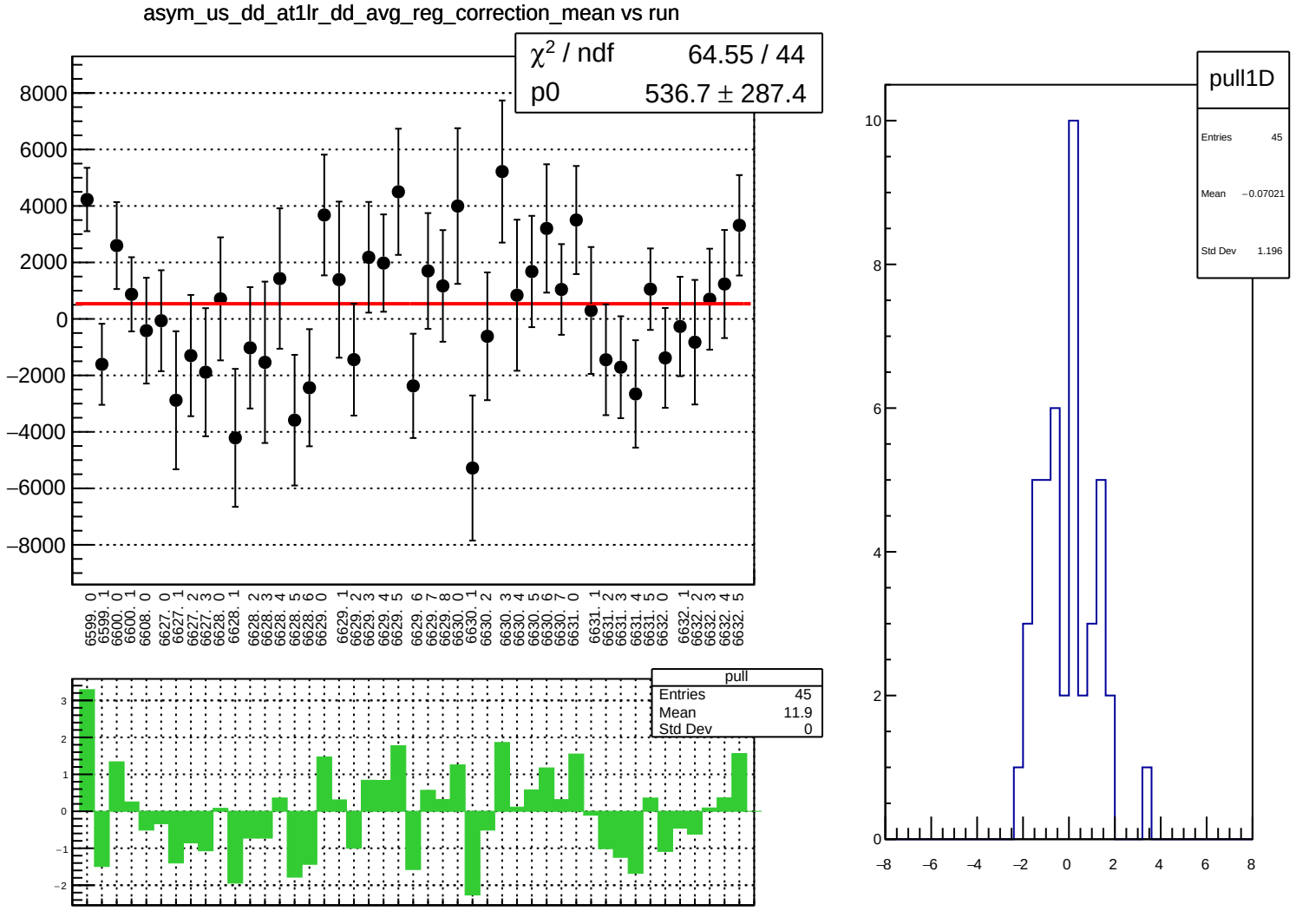
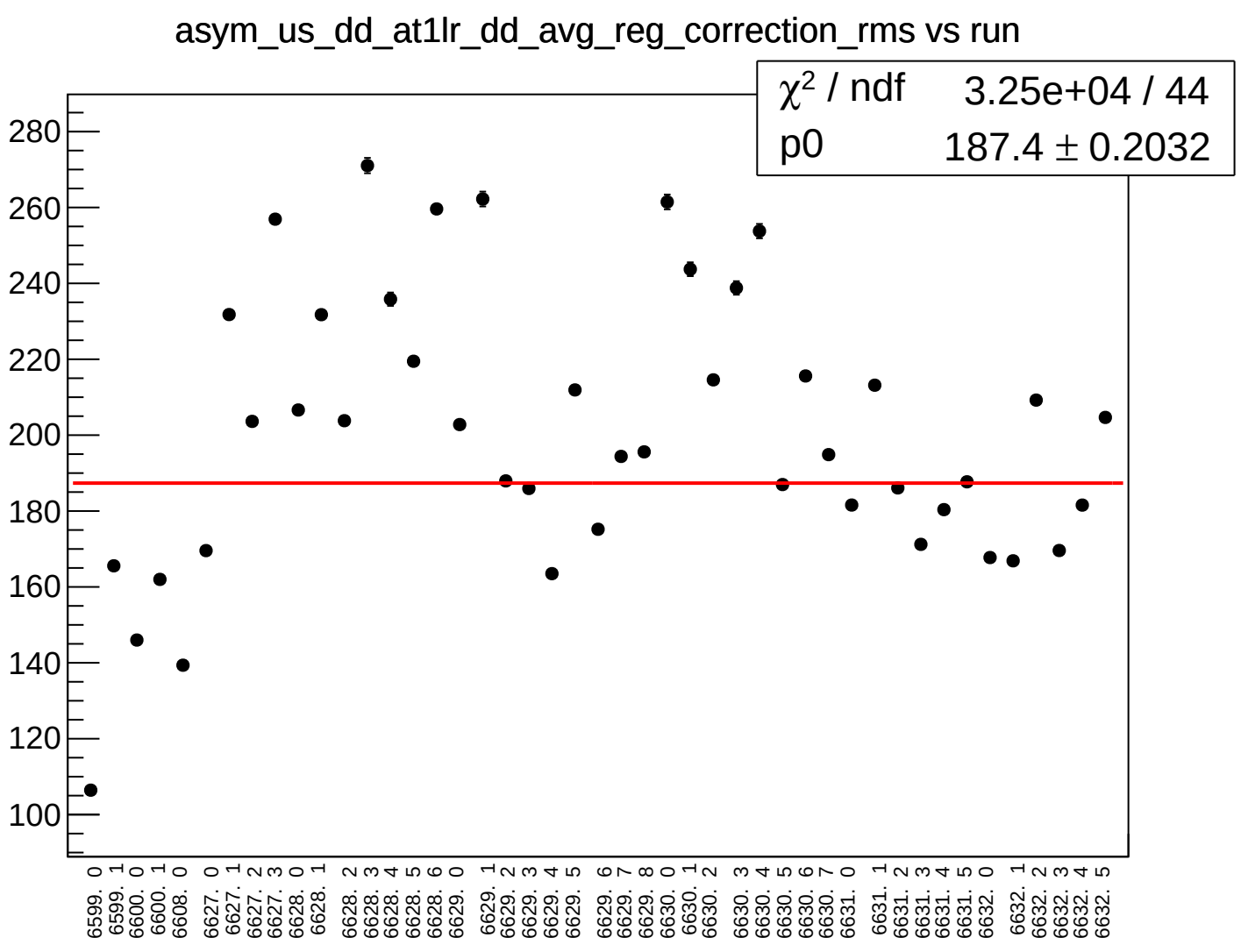
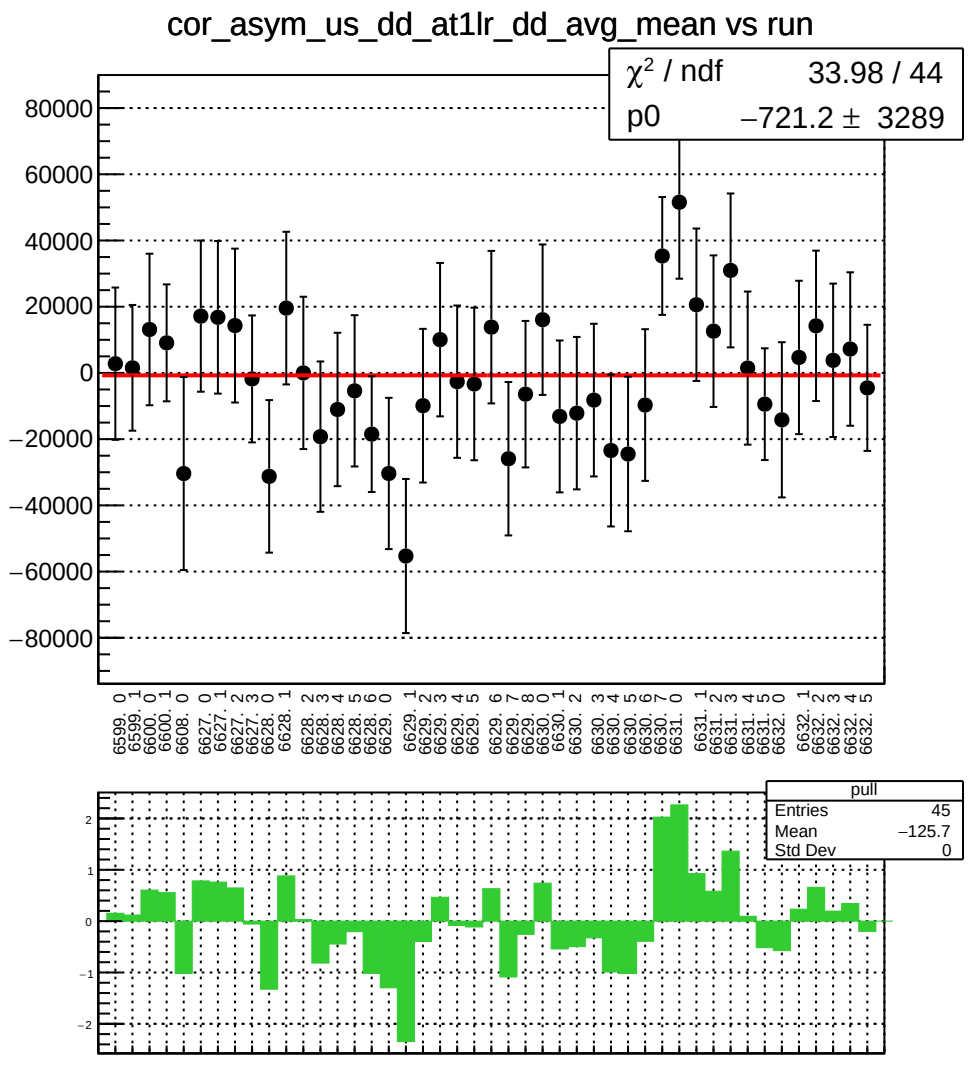
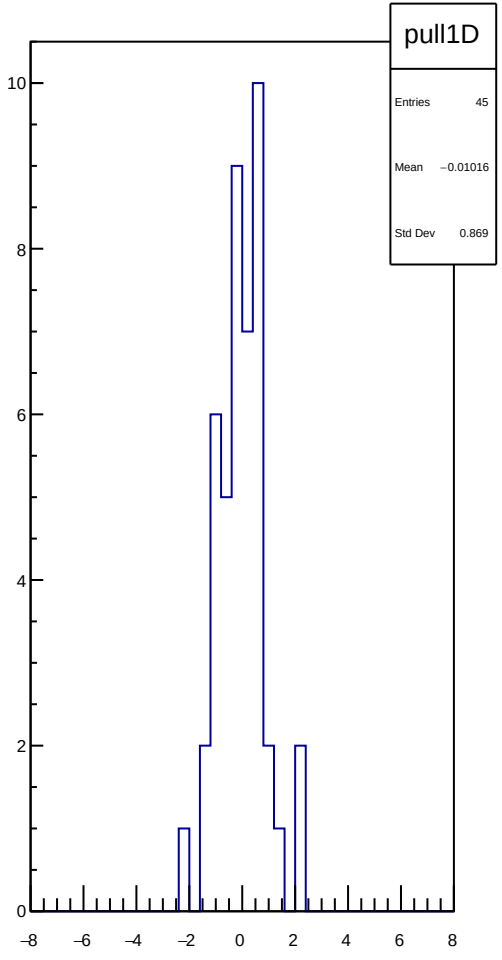
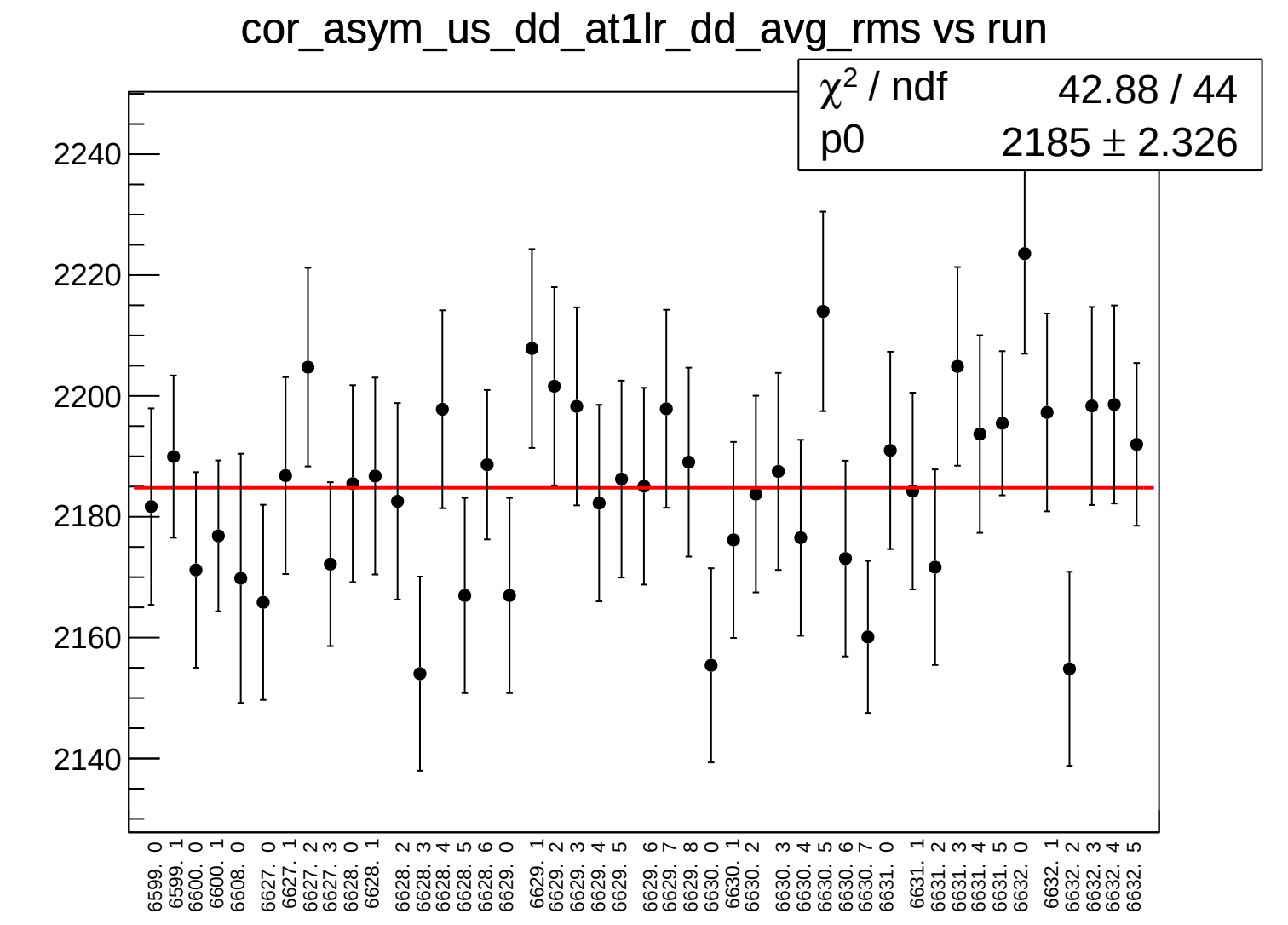
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 64.55 / 44
p0 536.7 ± 287.4
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 11.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.07021
Std Dev 1.196
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 3.25e+04 / 44
p0 187.4 ± 0.2032
280
260
240
220
200
180
160
140
120
100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 33.98 / 44
p0 −721.2 ± 3289
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −125.7
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.01016
Std Dev 0.869
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 42.88 / 44
p0 2185 ± 2.326
2240
2220
2200
2180
2160
2140
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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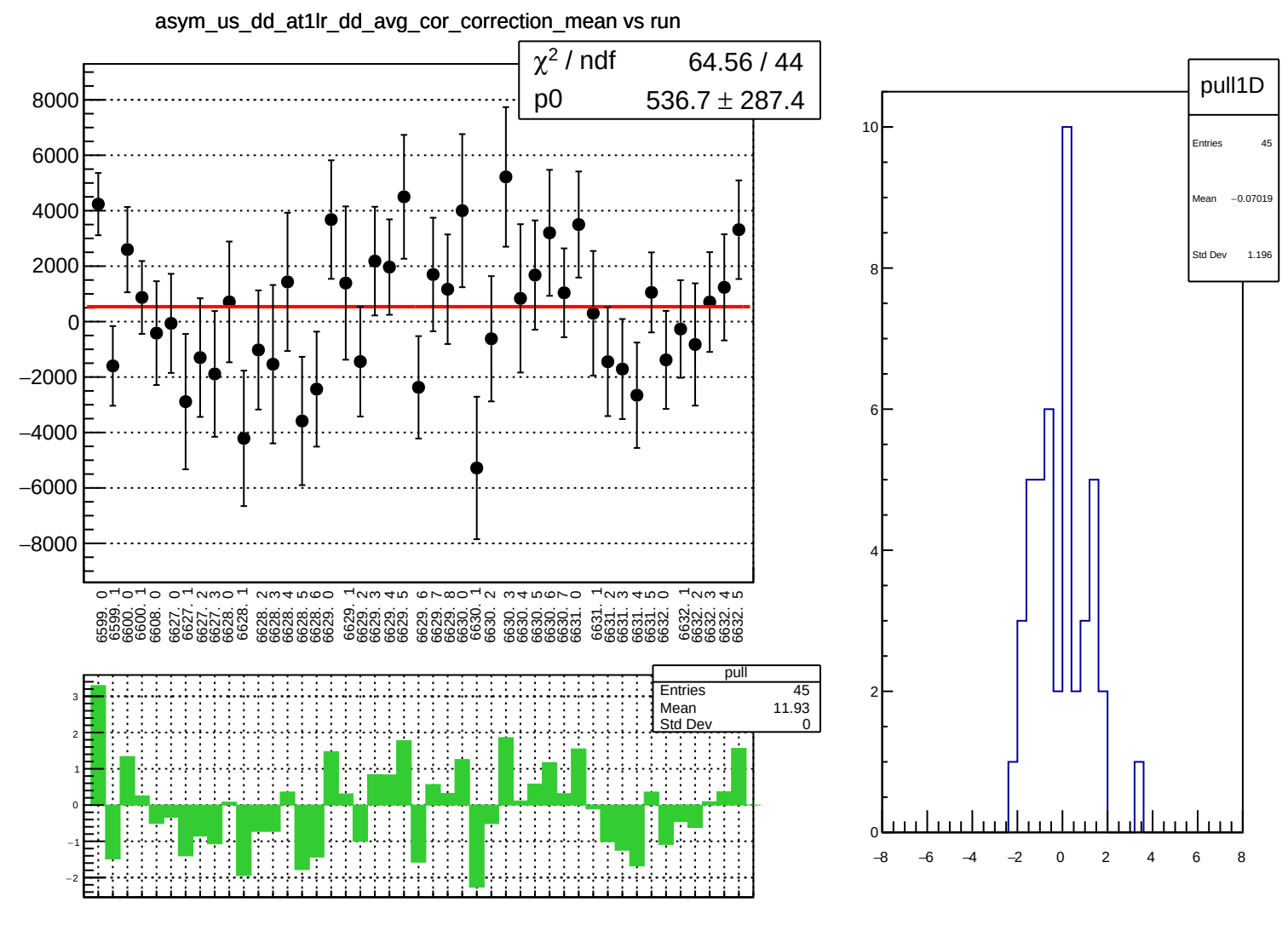
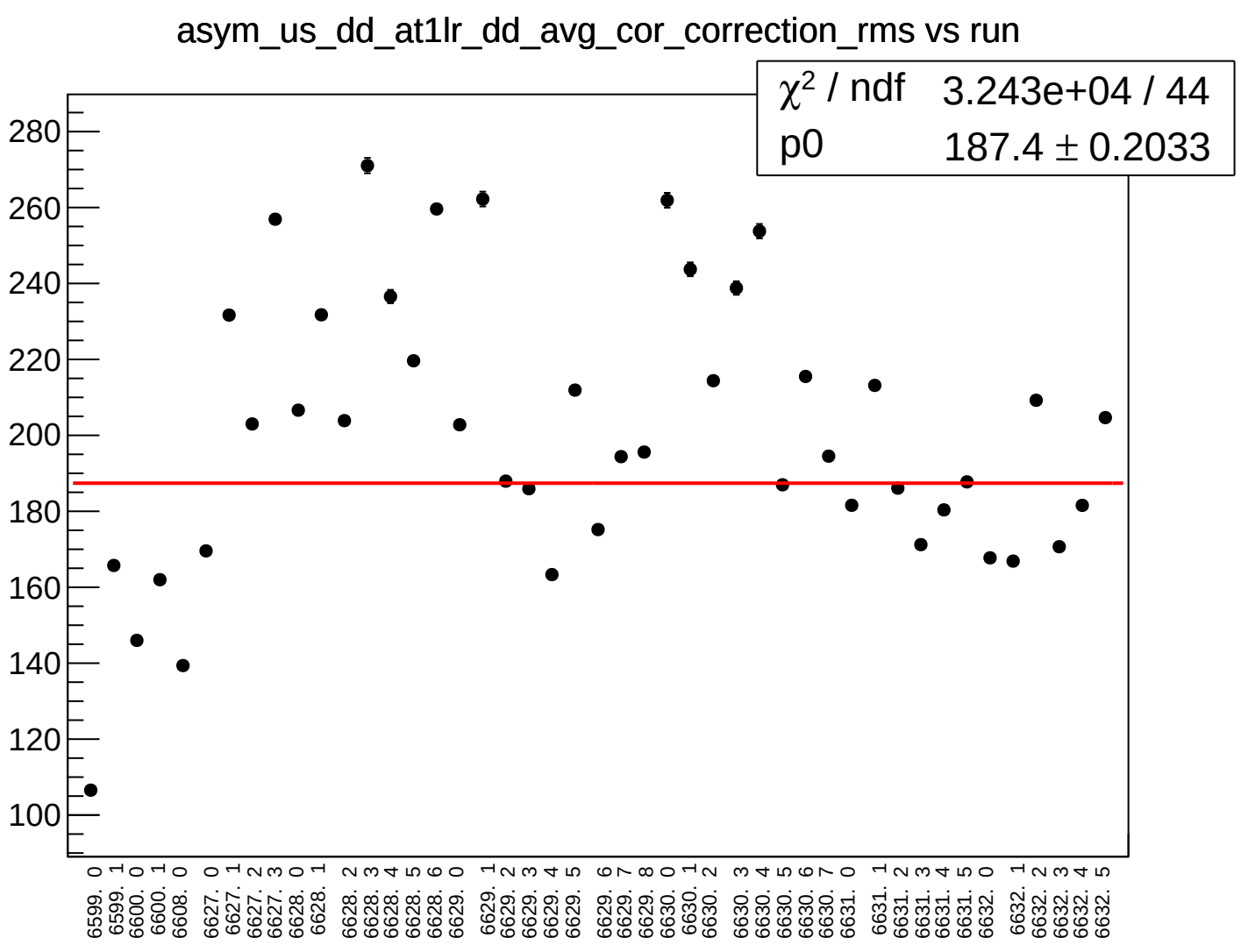
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 64.56 / 44
p0 536.7 ± 287.4
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 11.93
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.07019
Std Dev 1.196
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 3.243e+04 / 44
p0 187.4 ± 0.2033
280
260
240
220
200
180
160
140
120
100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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6628. 4
6628. 5
6628. 6
6629. 0
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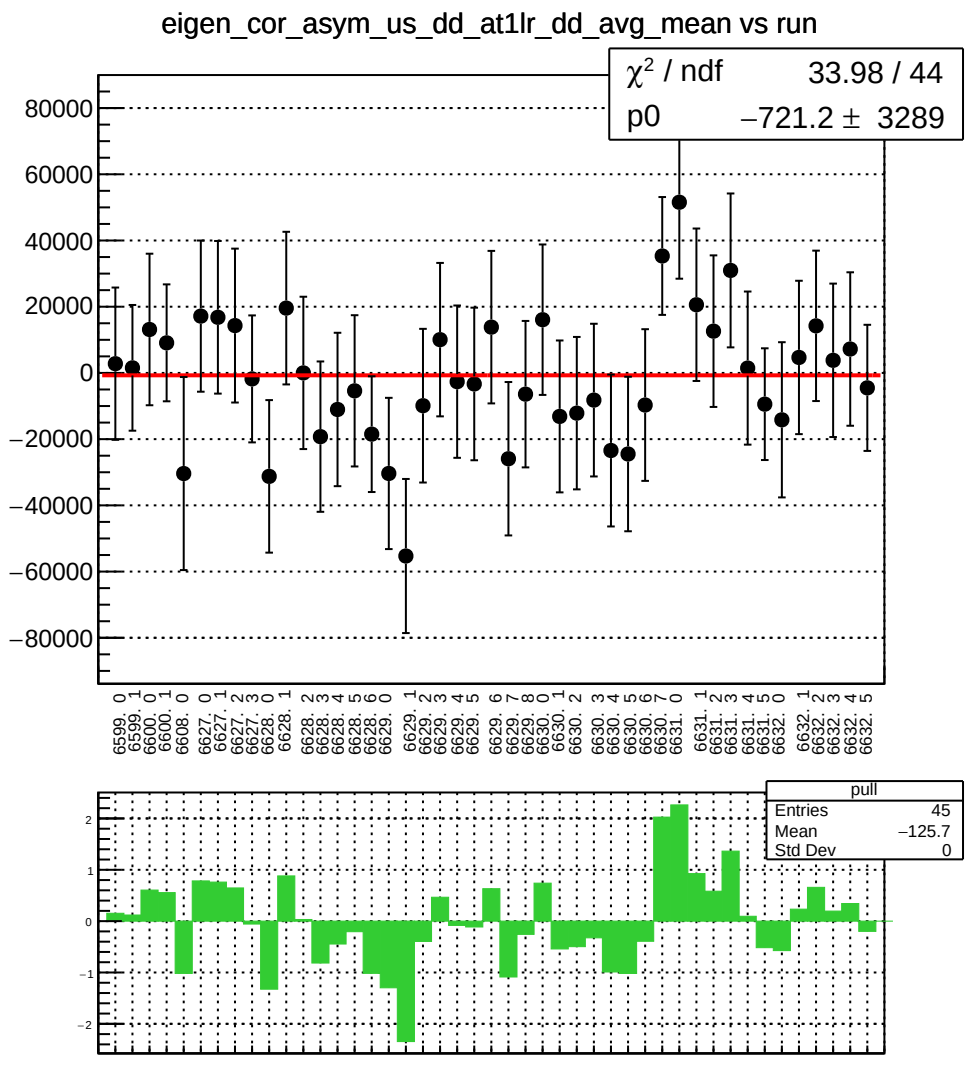
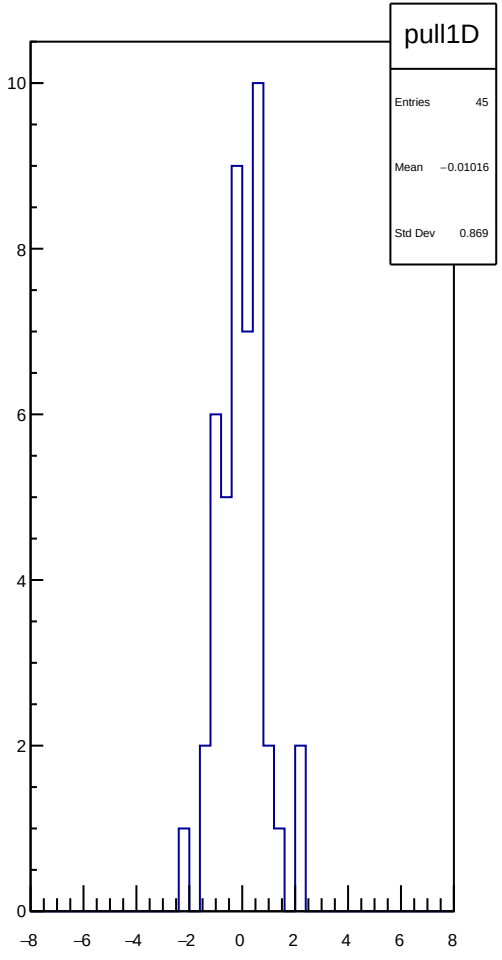
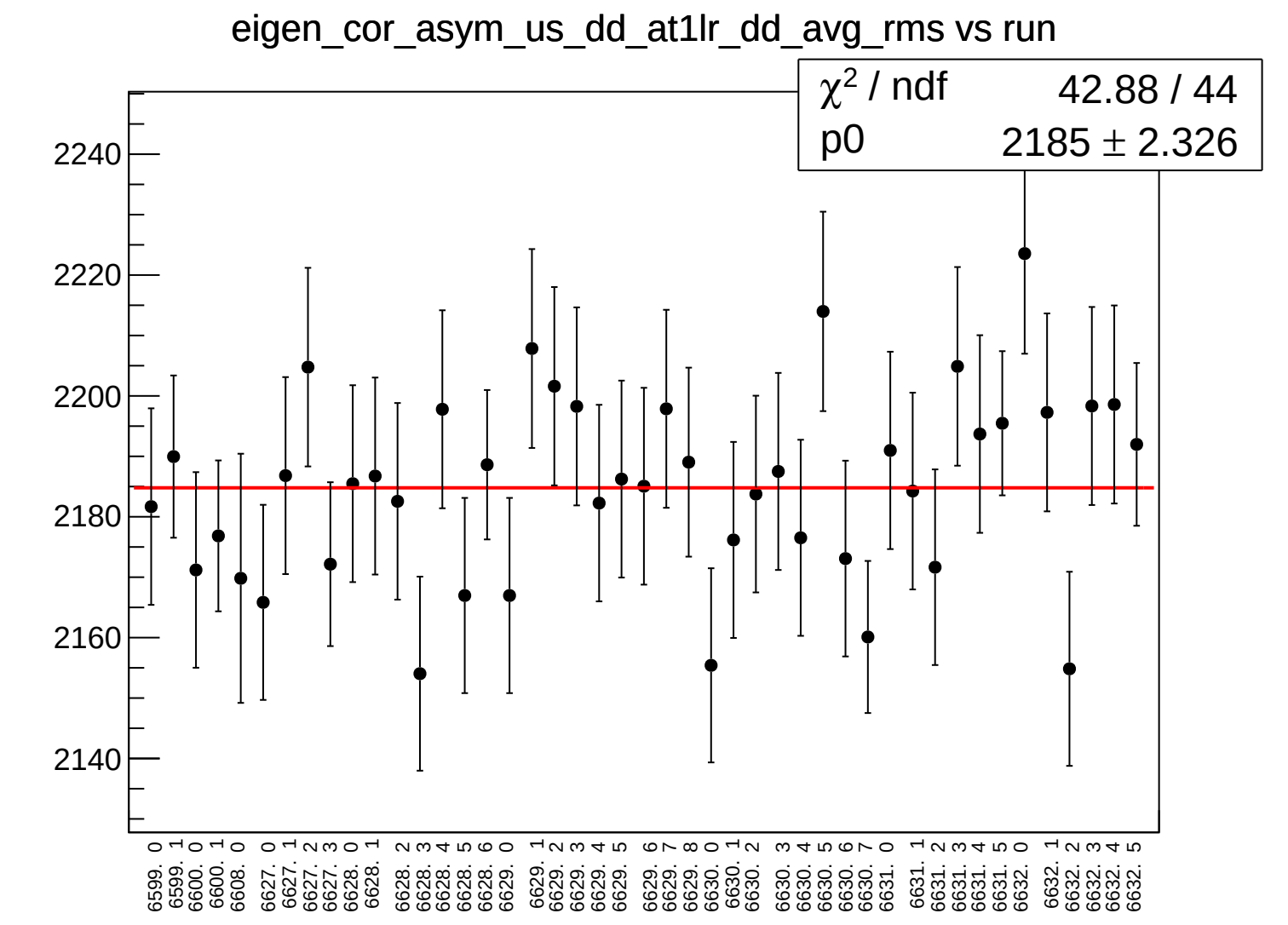
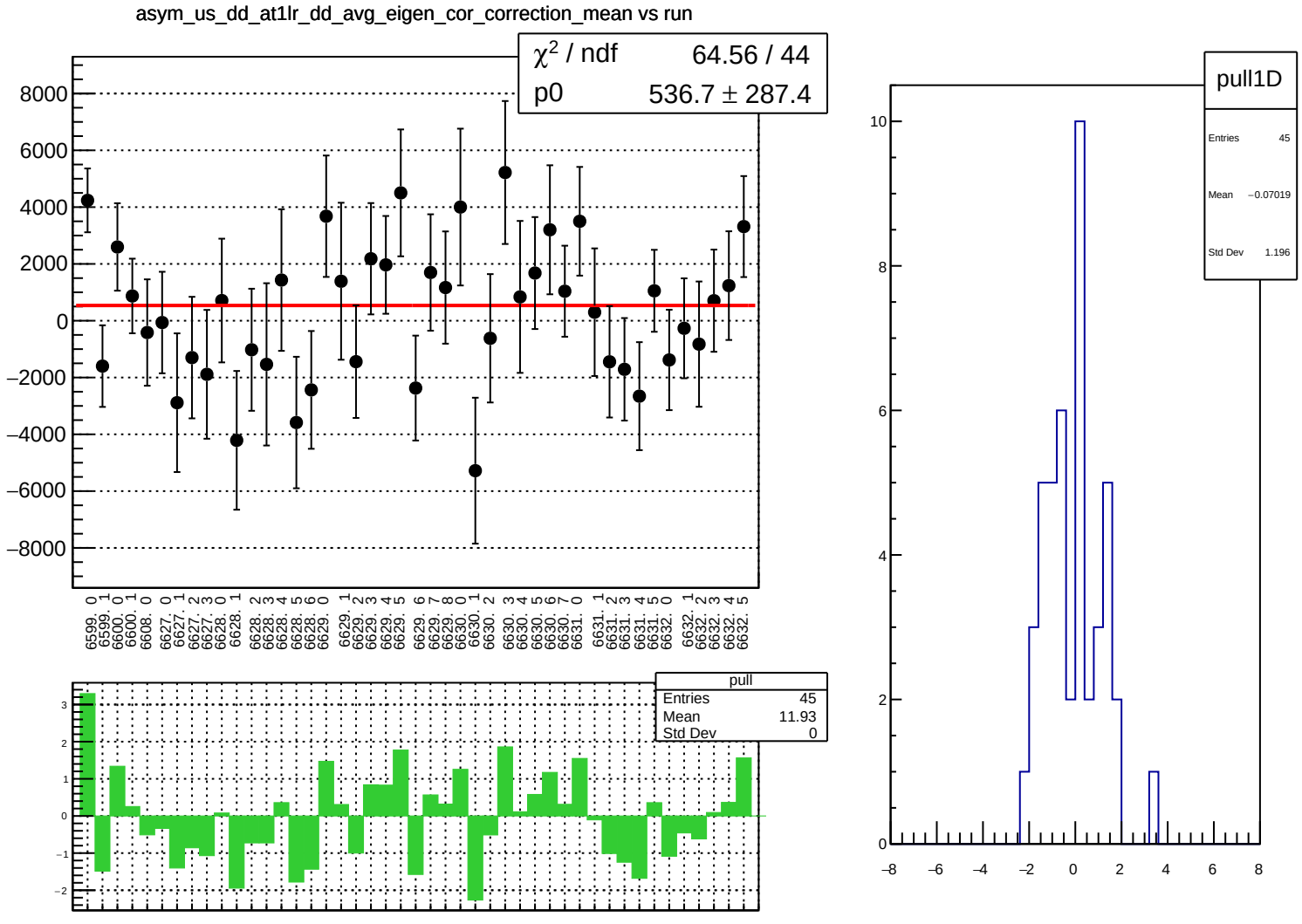
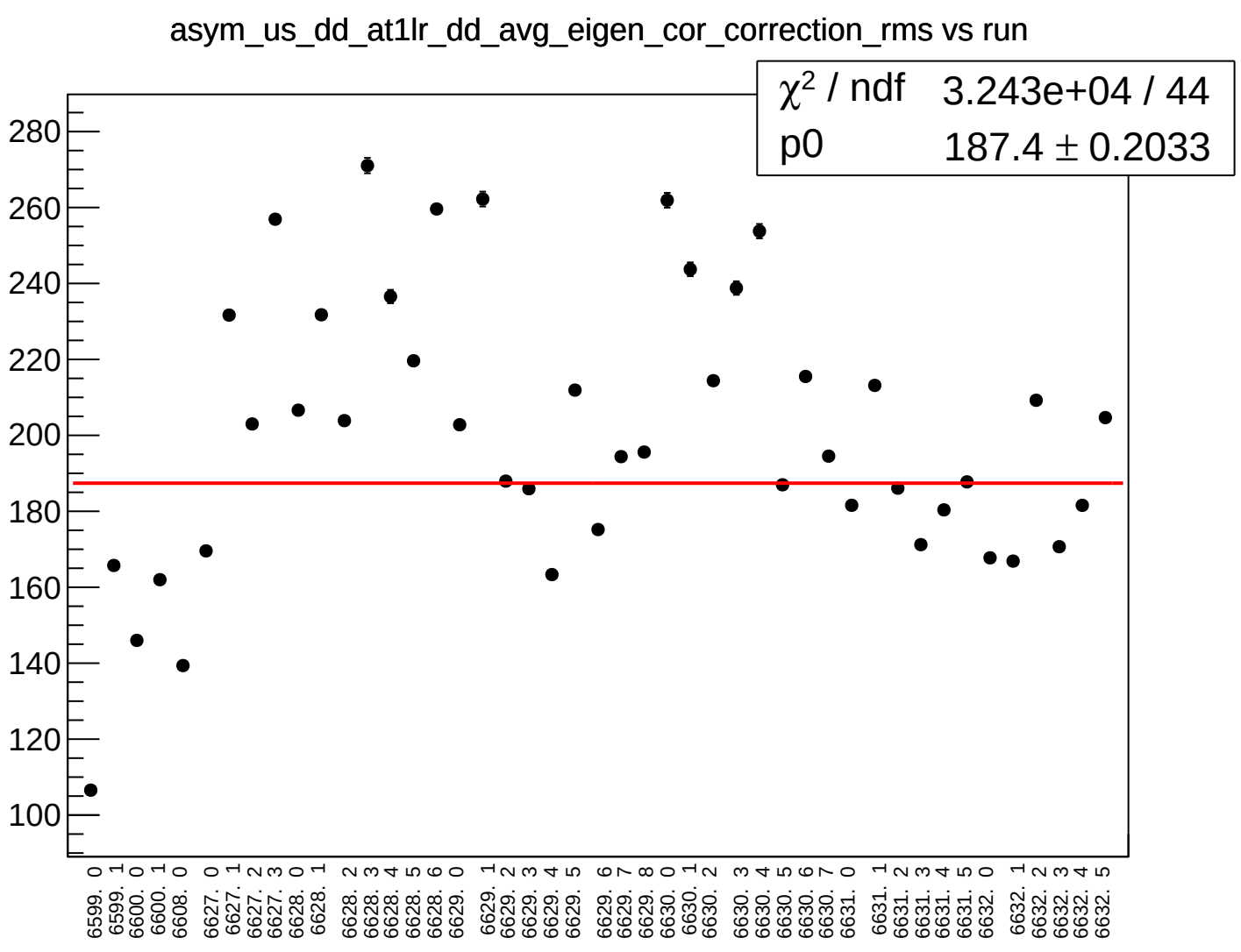
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

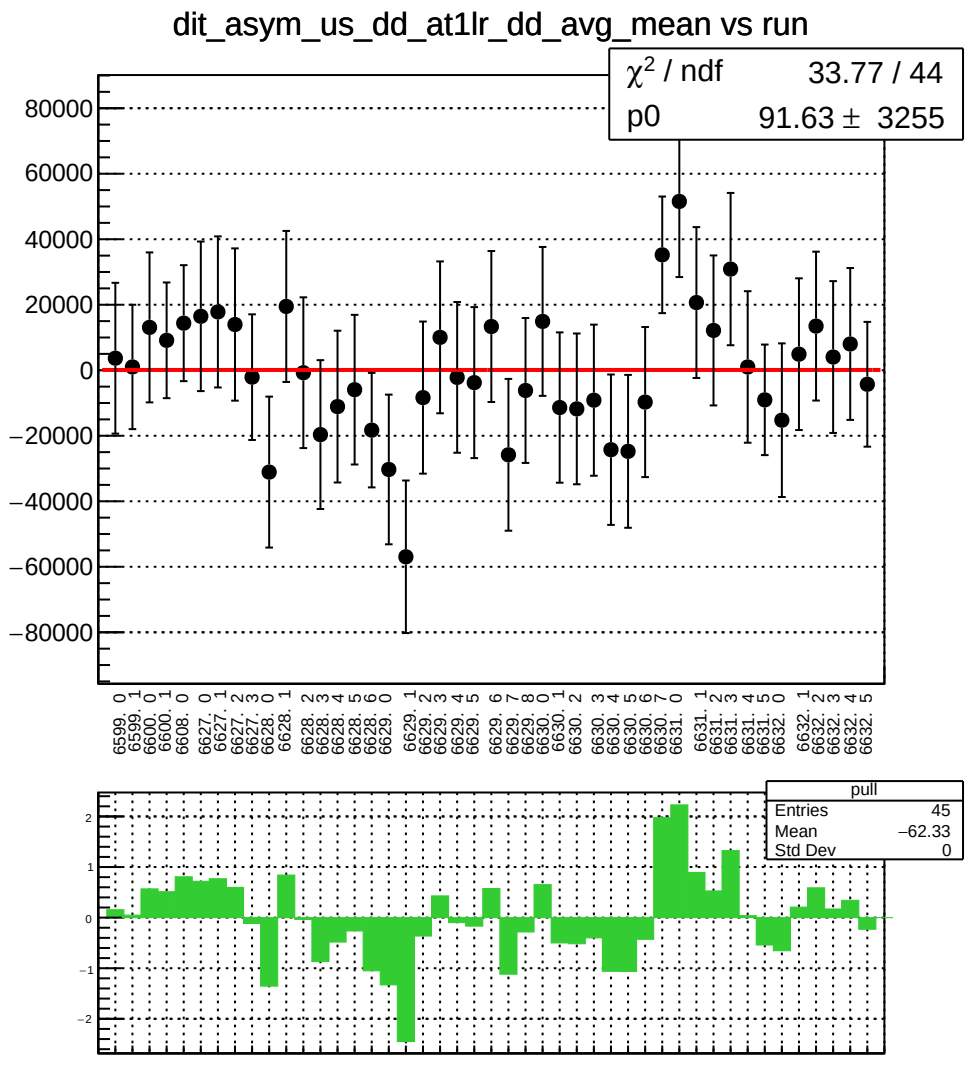

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 33.98 / 44
p0 −721.2 ± 3289
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −125.7
Std Dev 0
2
1
0
−1
−2

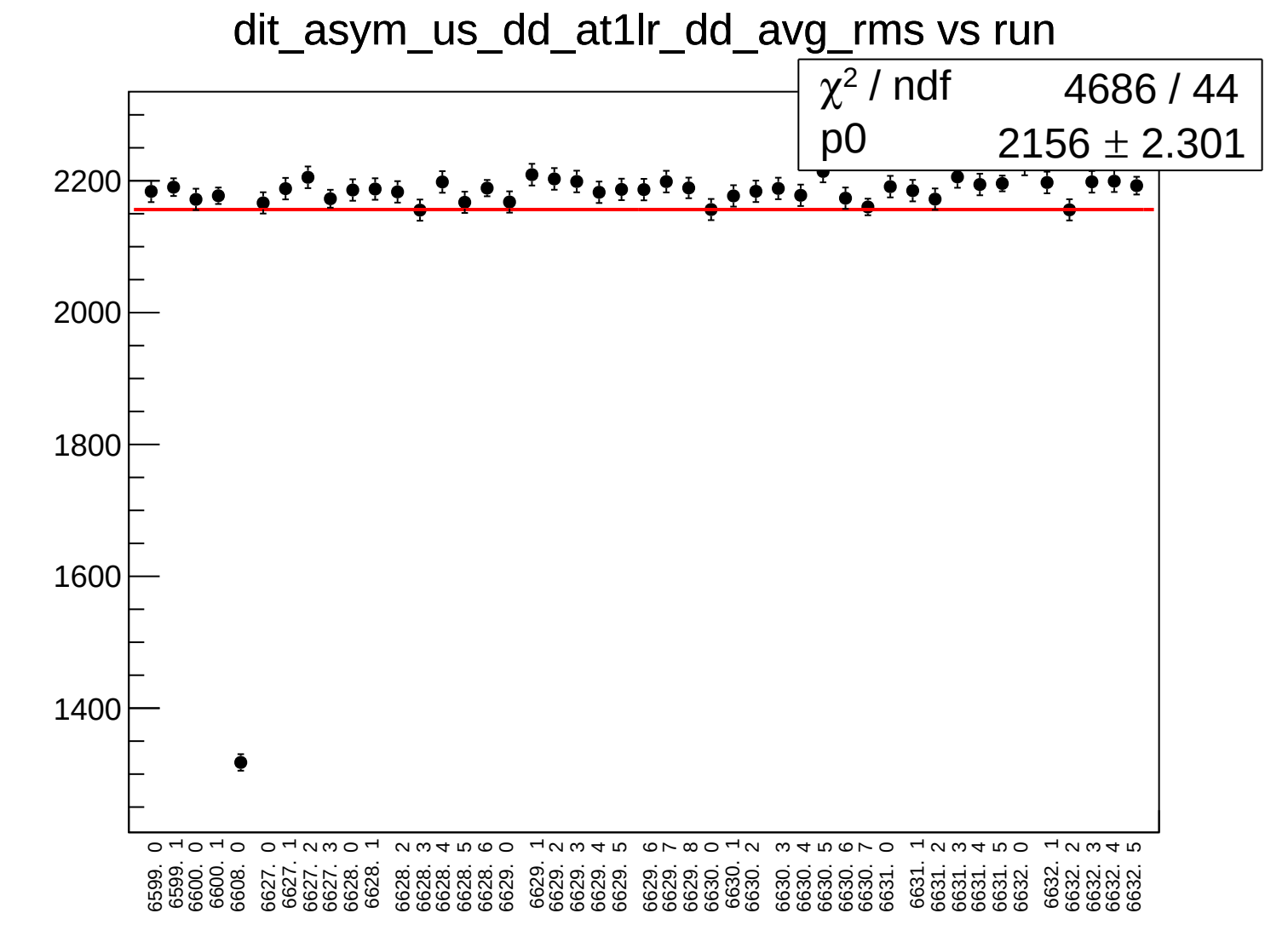

pull1D
Entries 45
Mean −0.01016
Std Dev 0.869
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

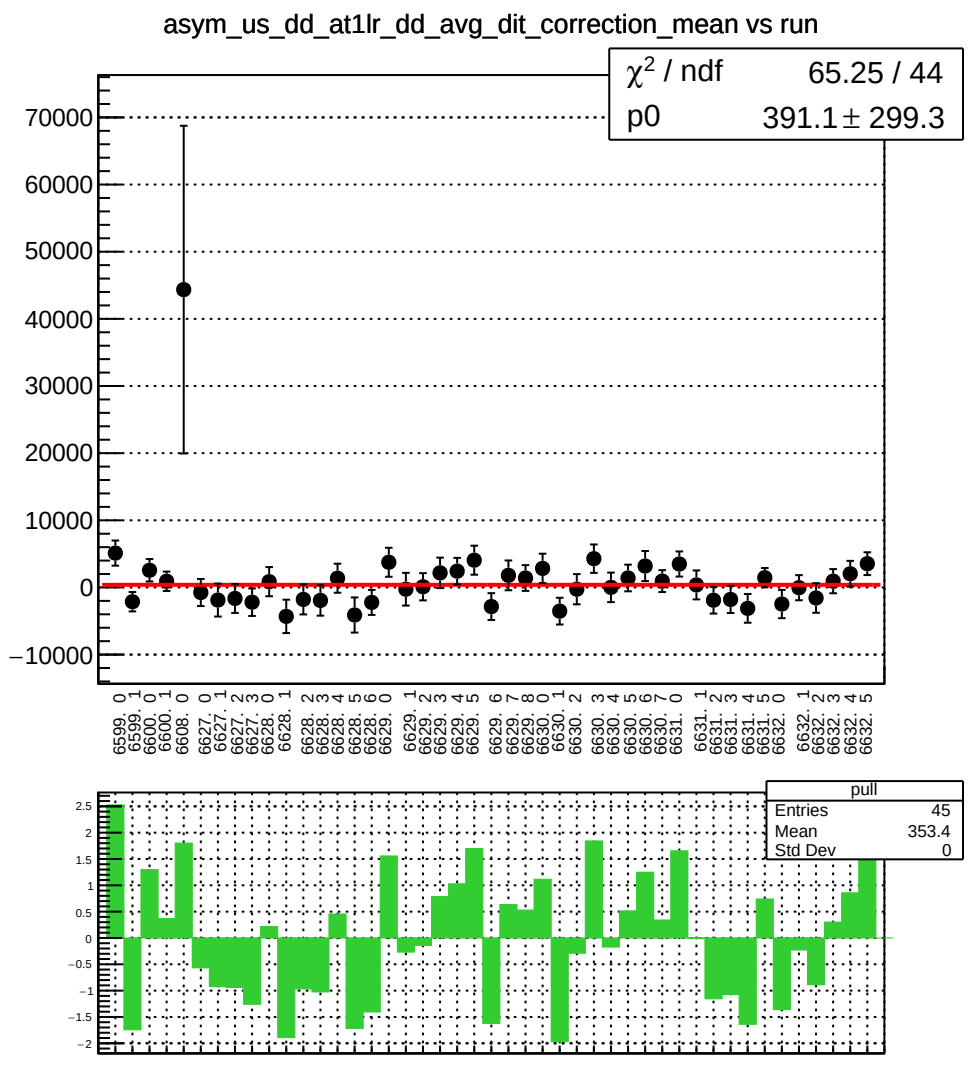

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 42.88 / 44
p0 2185 ± 2.326
2240
2220
2200
2180
2160
2140
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

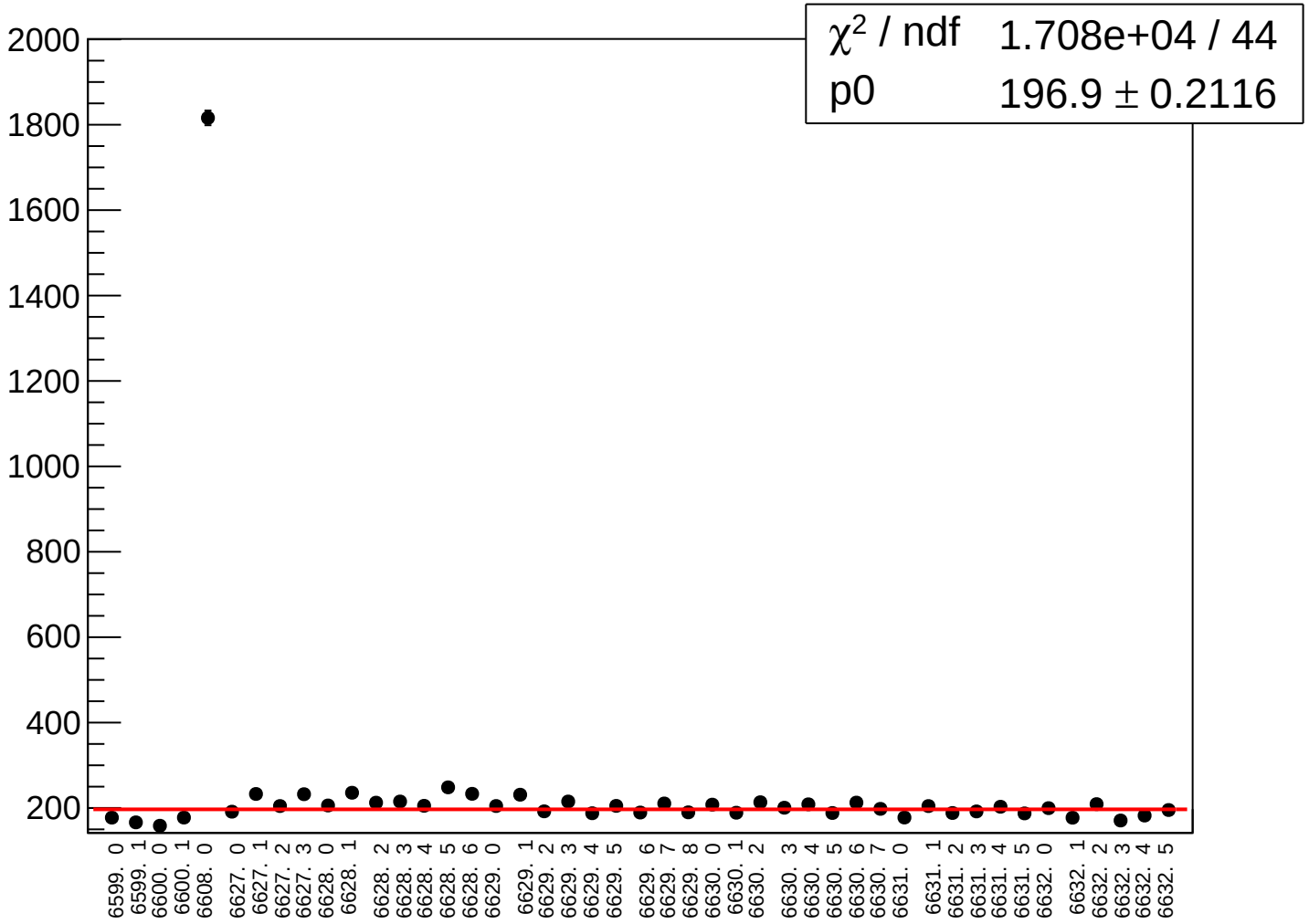

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 64.56 / 44
p0 536.7 ± 287.4
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 11.93
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.07019
Std Dev 1.196
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

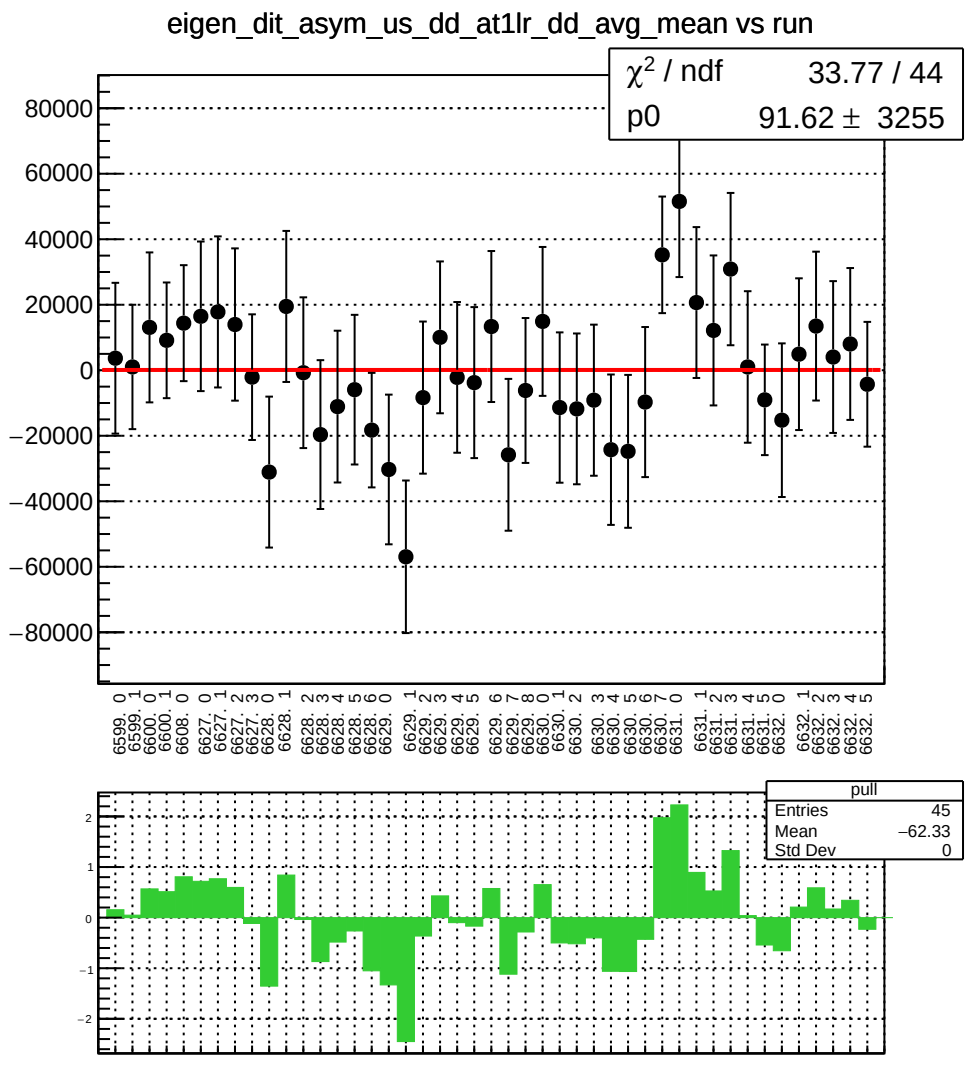

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.243e+04 / 44
p0 187.4 ± 0.2033
280
260
240
220
200
180
160
140
120
100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

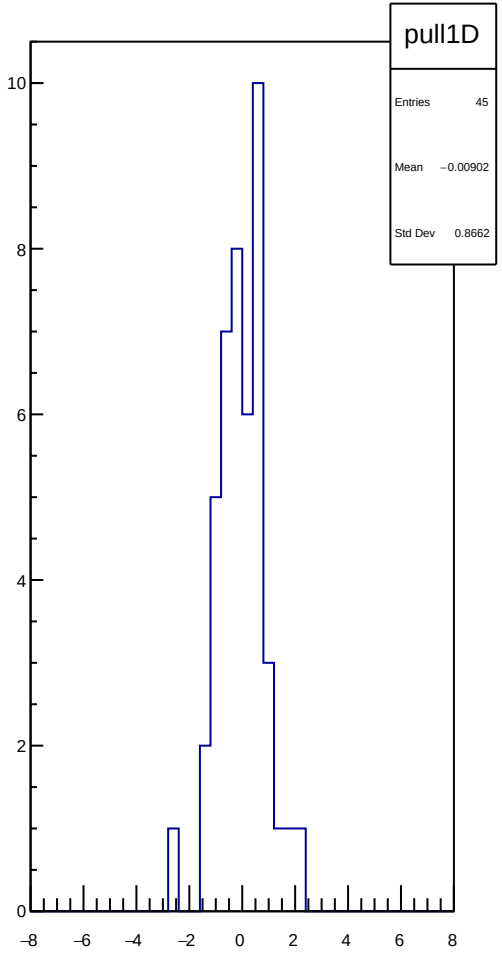

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 33.77 / 44
p0 91.63 ± 3255
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −62.33
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.00902
Std Dev 0.8662
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

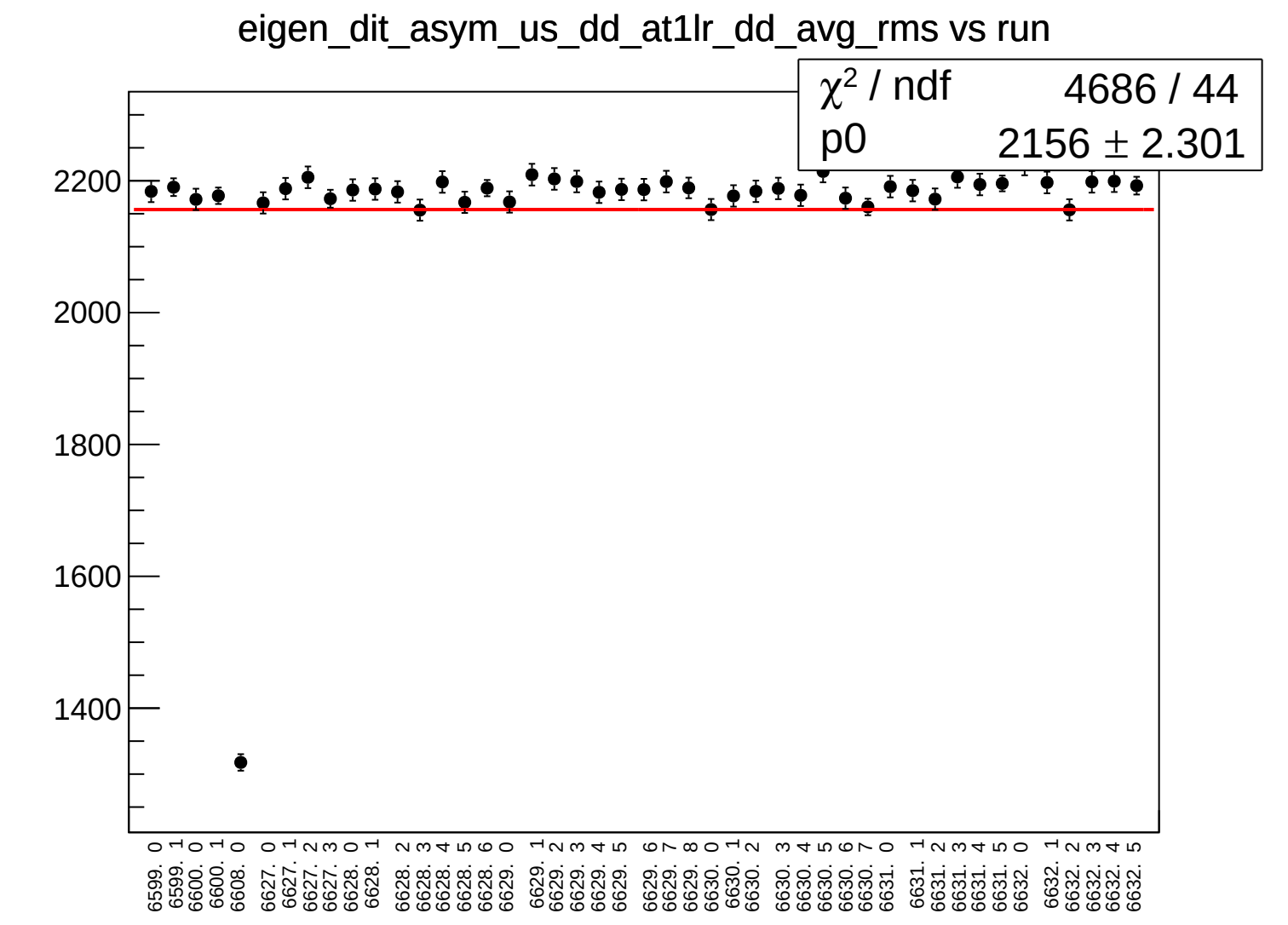

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 4686 / 44
p0 2156 ± 2.301
2200
2000
1800
1600
1400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 65.25 / 44
p0 391.1 ± 299.3
70000
60000
50000
40000
30000
20000
10000
0
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 353.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.002617
Std Dev 1.204
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 1.708e+04 / 44
p0 196.9 ± 0.2116
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 33.77 / 44
p0 91.62 ± 3255
pull
Entries 45
Mean −62.33
Std Dev 0


pull1D
Entries 45
Mean −0.00902
Std Dev 0.8662


eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 4686 / 44
p0 2156 ± 2.301
2200
2000
1800
1600
1400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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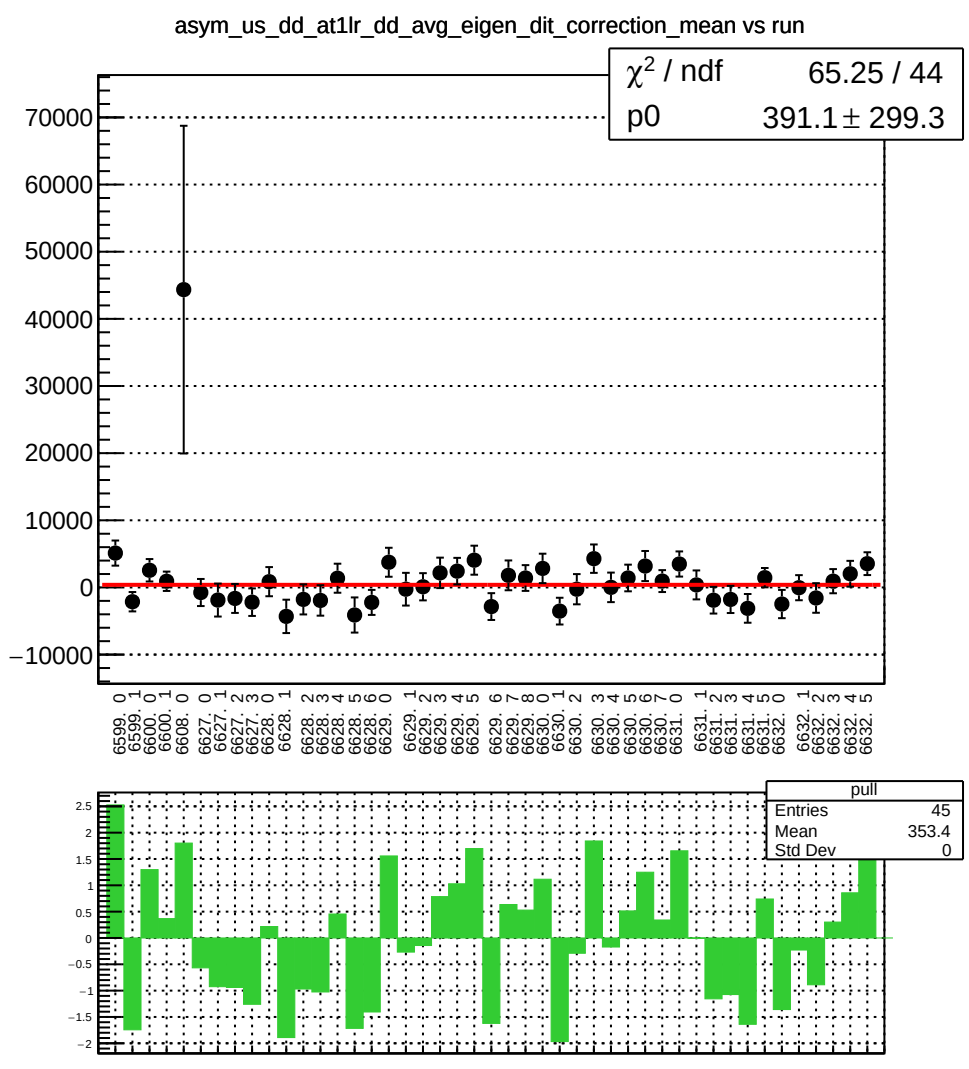
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 65.25 / 44
p0 391.1 ± 299.3
70000
60000
50000
40000
30000
20000
10000
0
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
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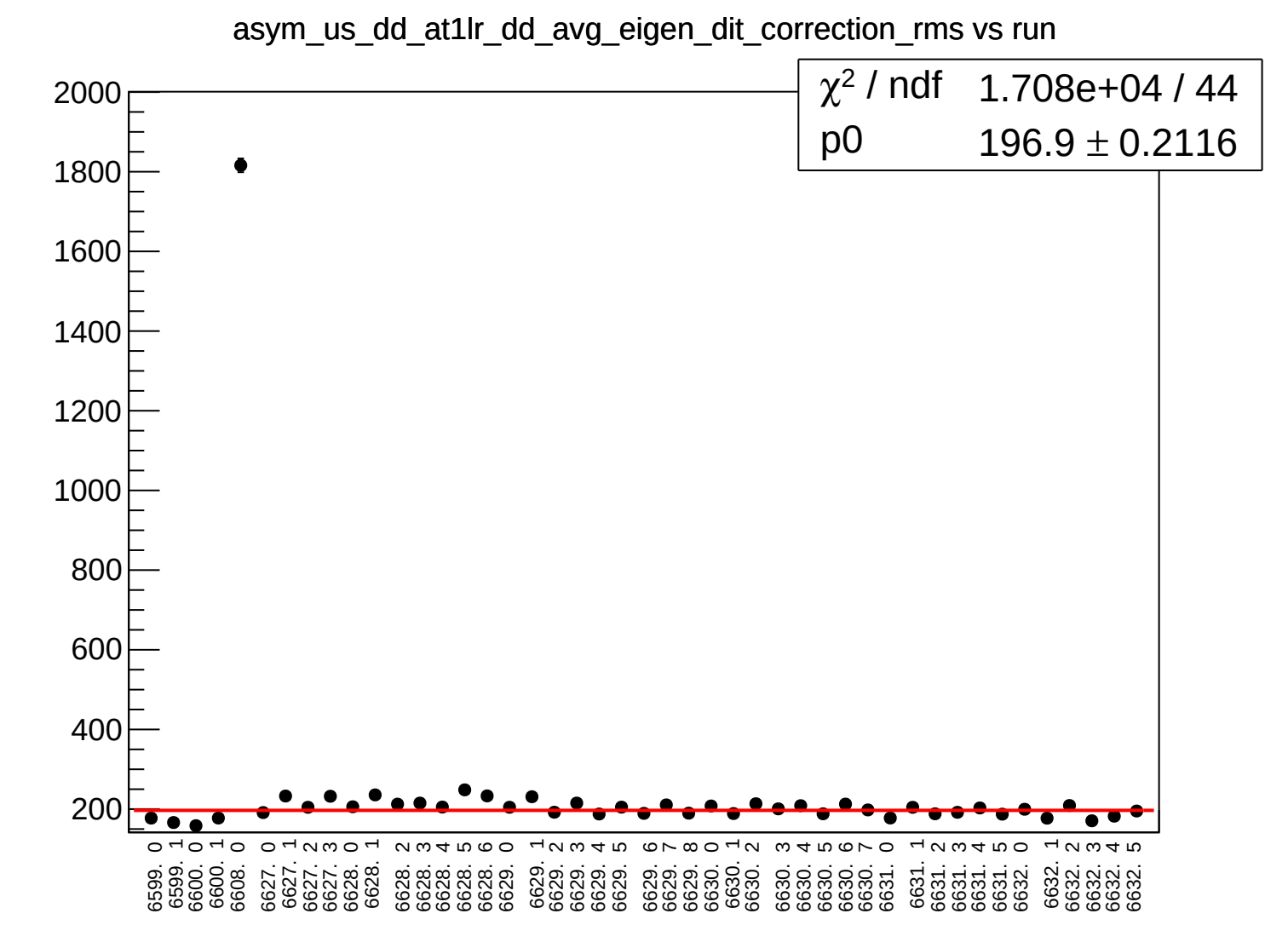
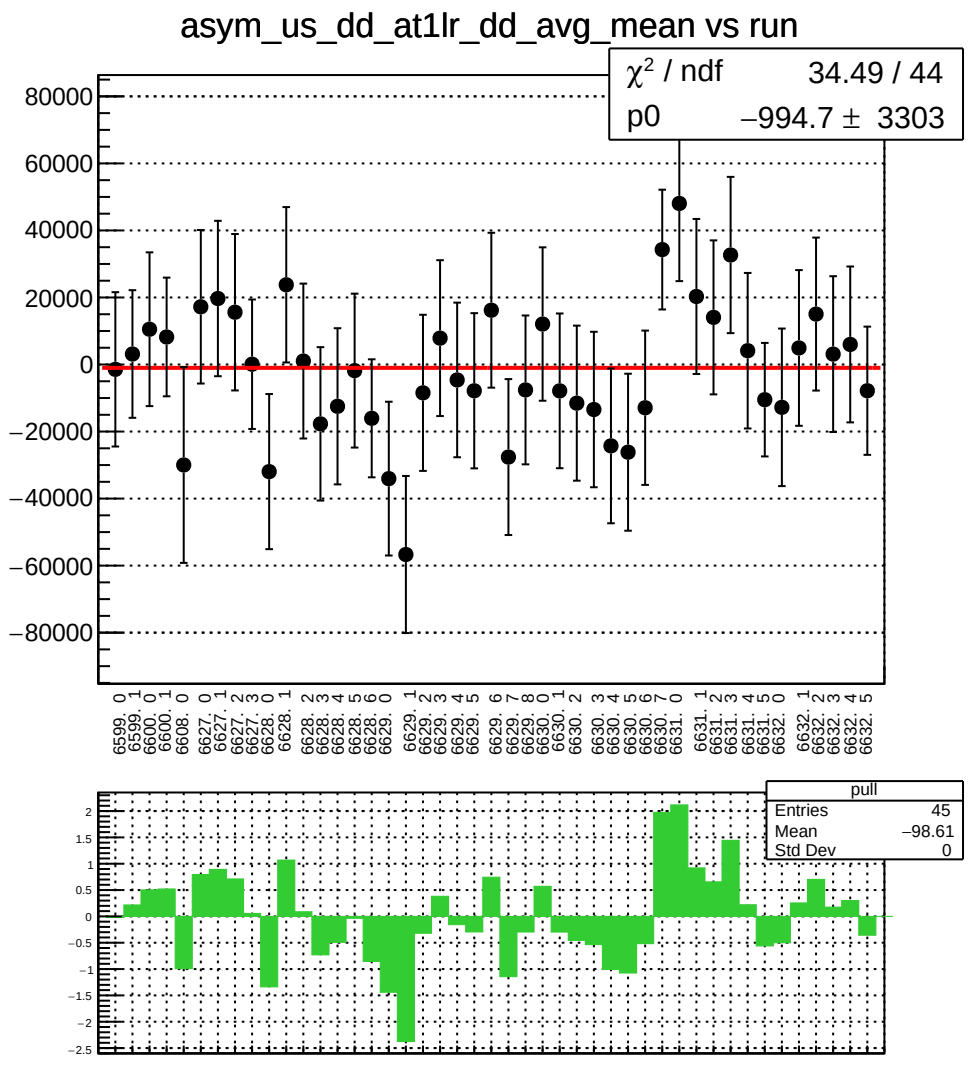
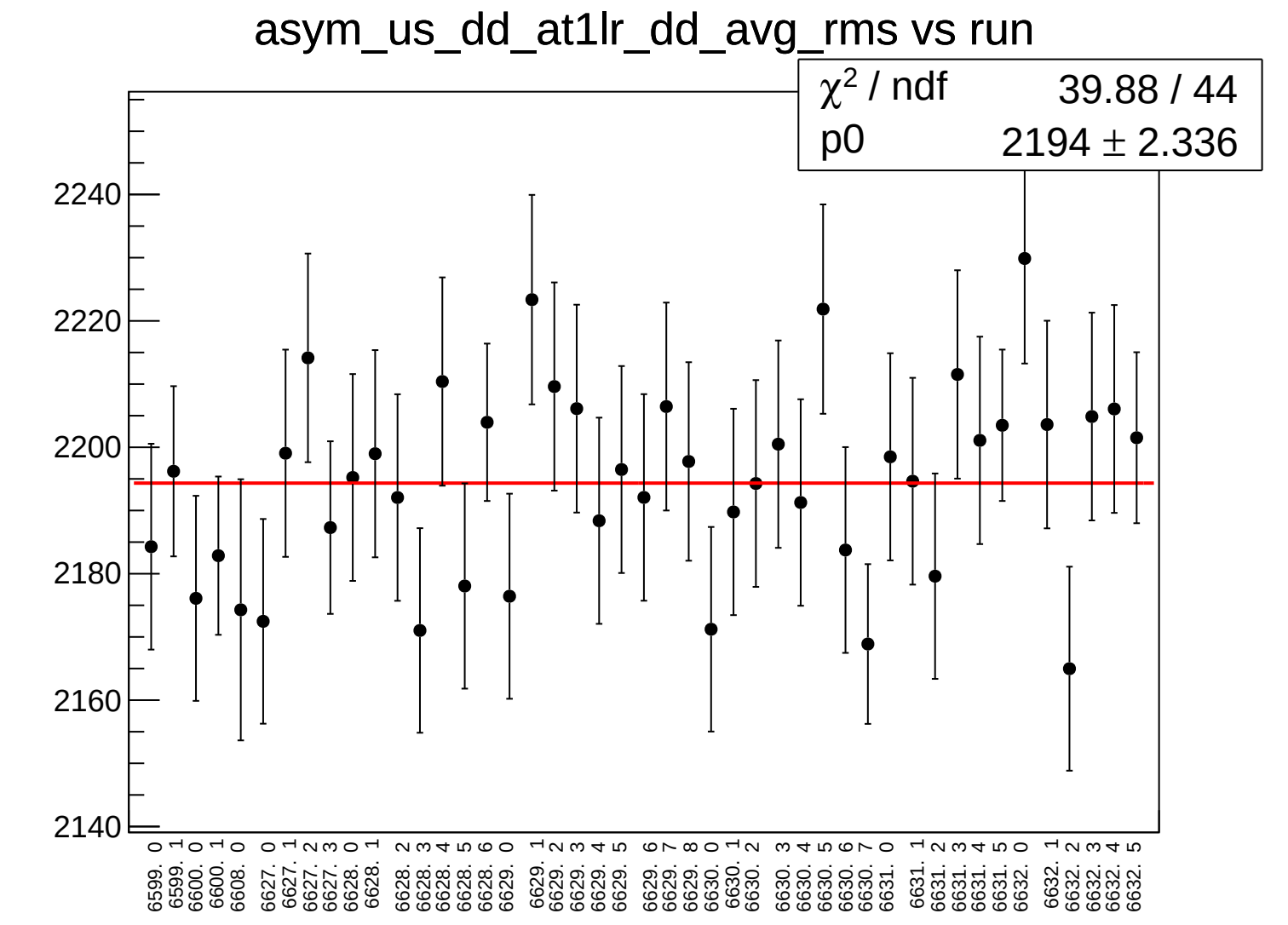
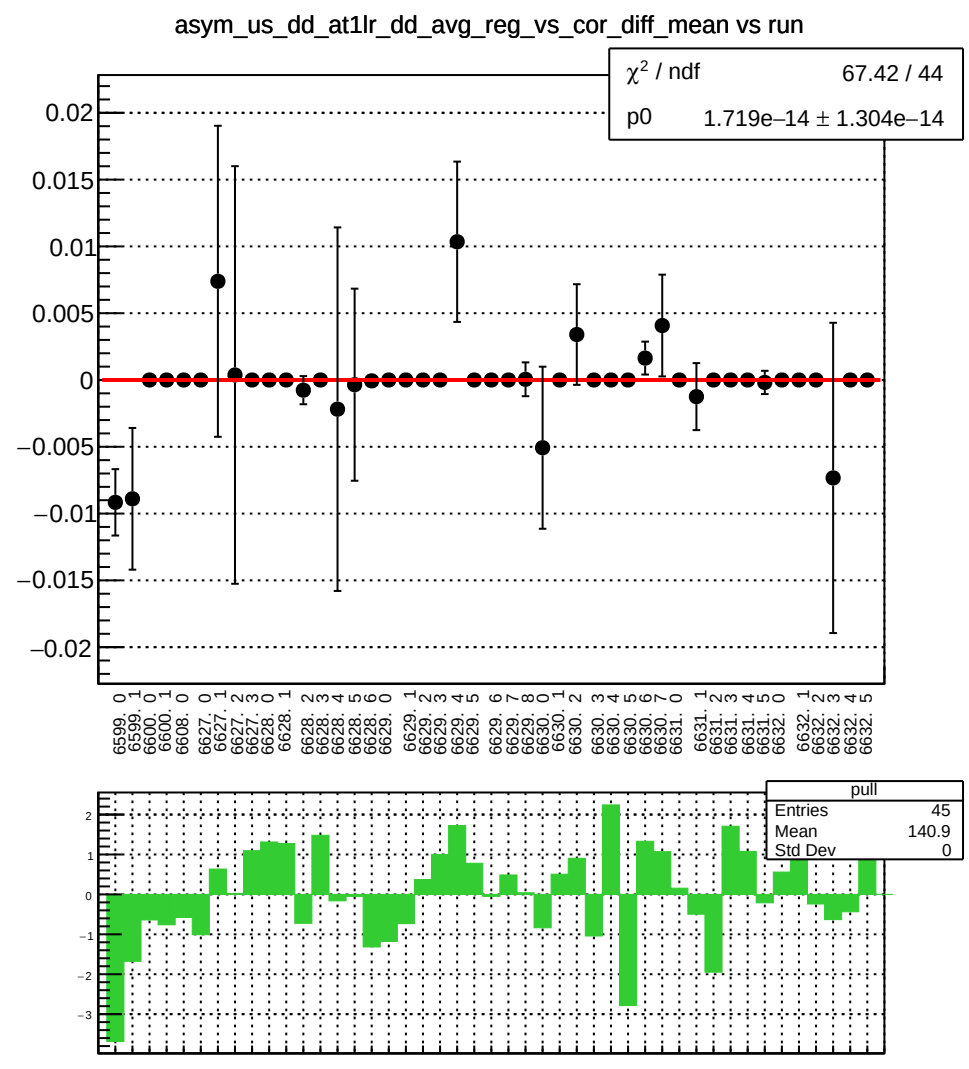
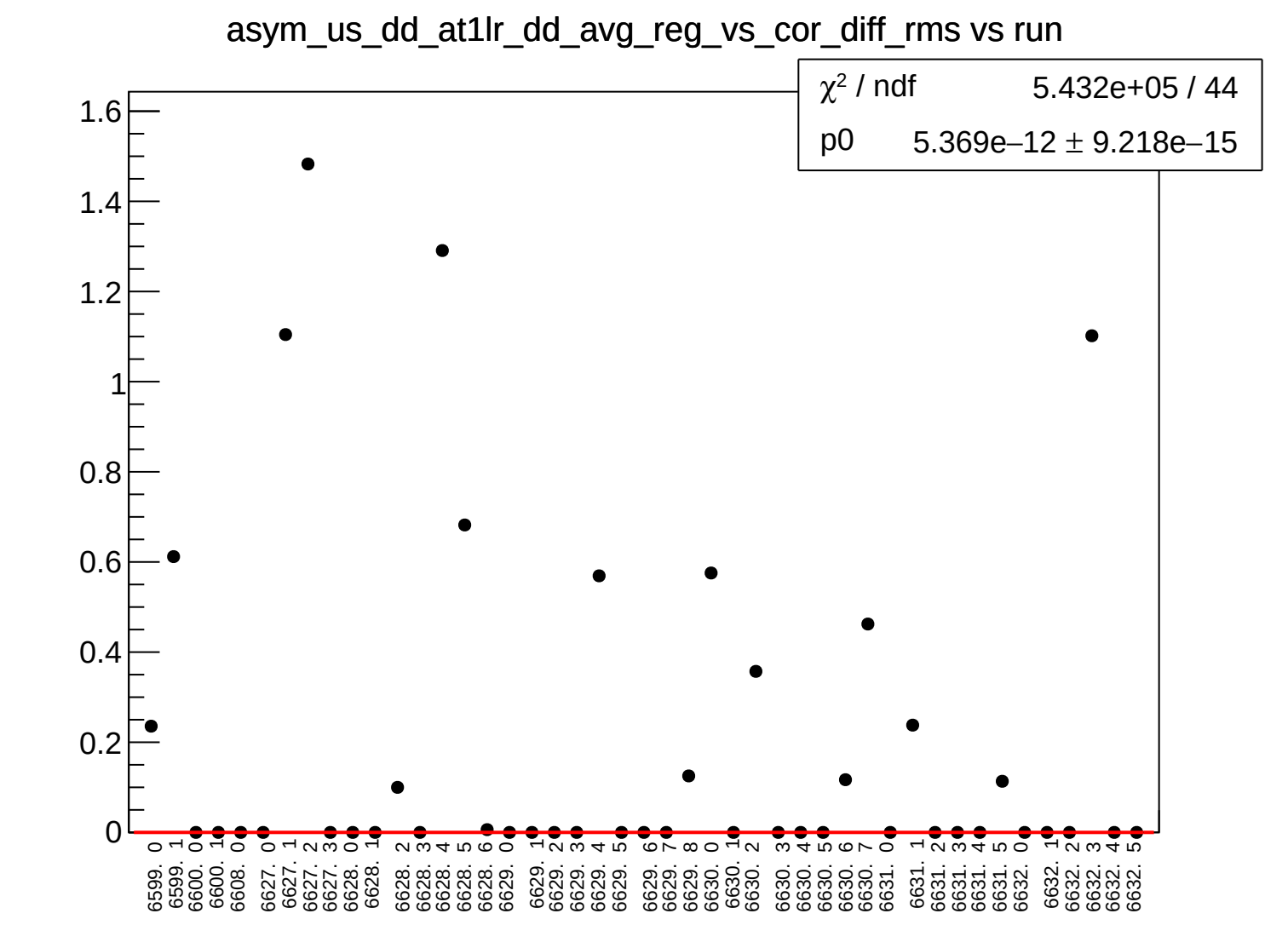
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 353.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.002617
Std Dev 1.204
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 1.708e+04 / 44
p0 196.9 ± 0.2116
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 34.49 / 44
p0 −994.7 ± 3303
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −98.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.01082
Std Dev 0.8753
8
7
6
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 39.88 / 44
p0 2194 ± 2.336
2240
2220
2200
2180
2160
2140
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 67.42 / 44
p0 1.719e−14 ± 1.304e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 140.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.03467
Std Dev 1.224
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_vs_cor_diff_rms vs run
χ² / ndf 5.432e+05 / 44
p0 5.369e−12 ± 9.218e−15
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
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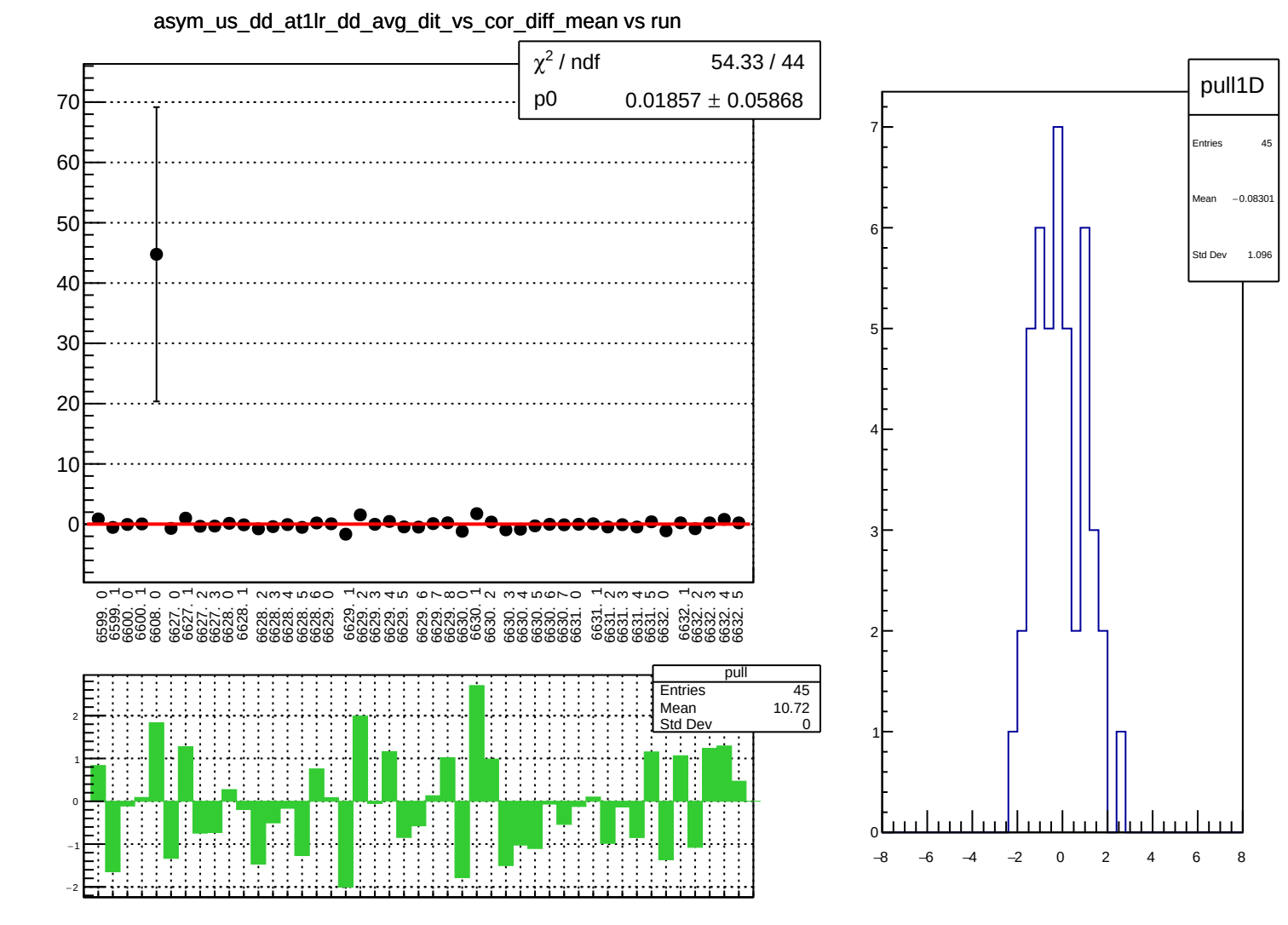
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 54.33 / 44
p0 0.01857 ± 0.05868
70
60
50
40
30
20
10
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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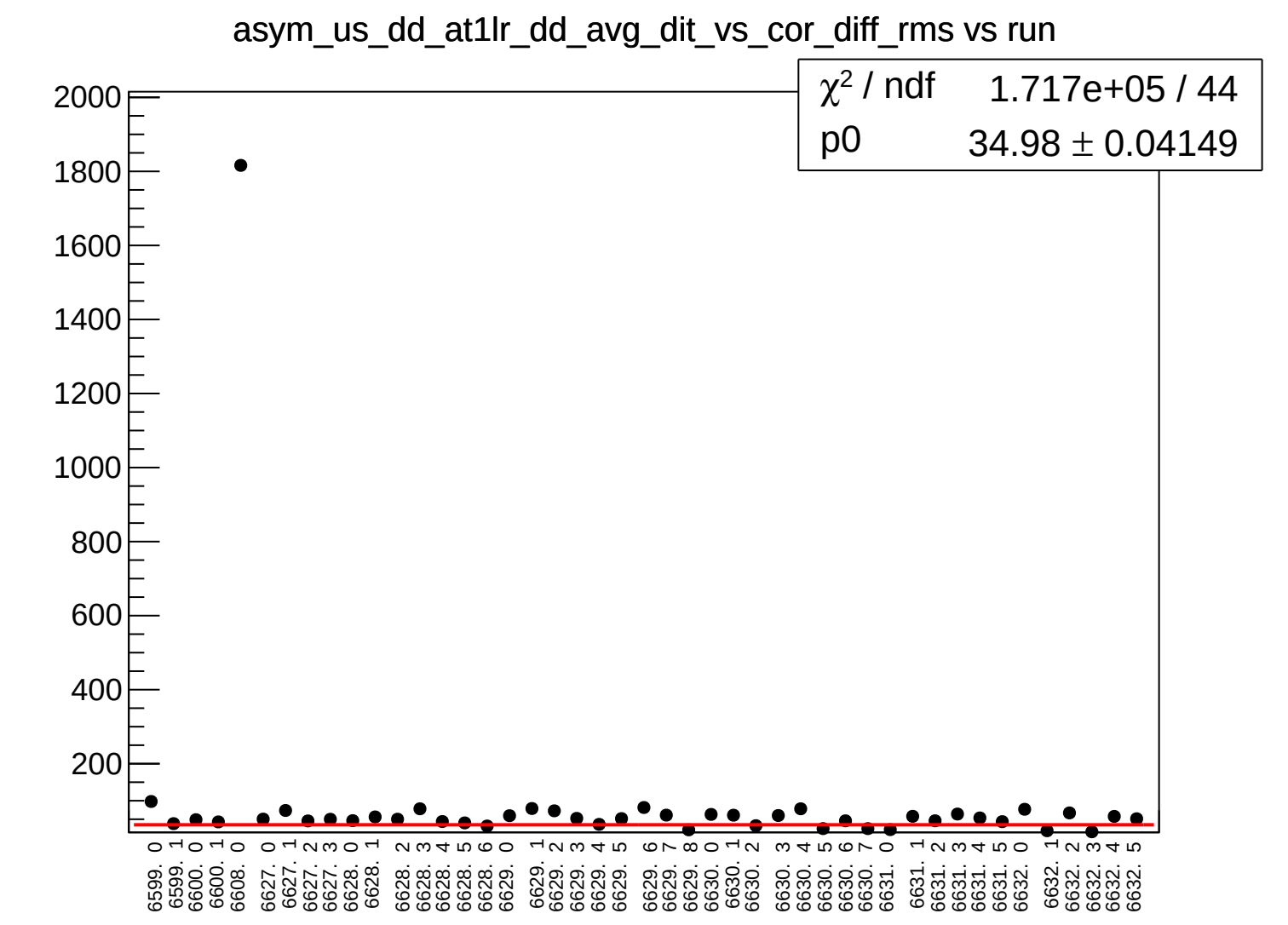
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 10.72
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.08301
Std Dev 1.096
7
6
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 1.717e+05 / 44
p0 34.98 ± 0.04149
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
6632. 0
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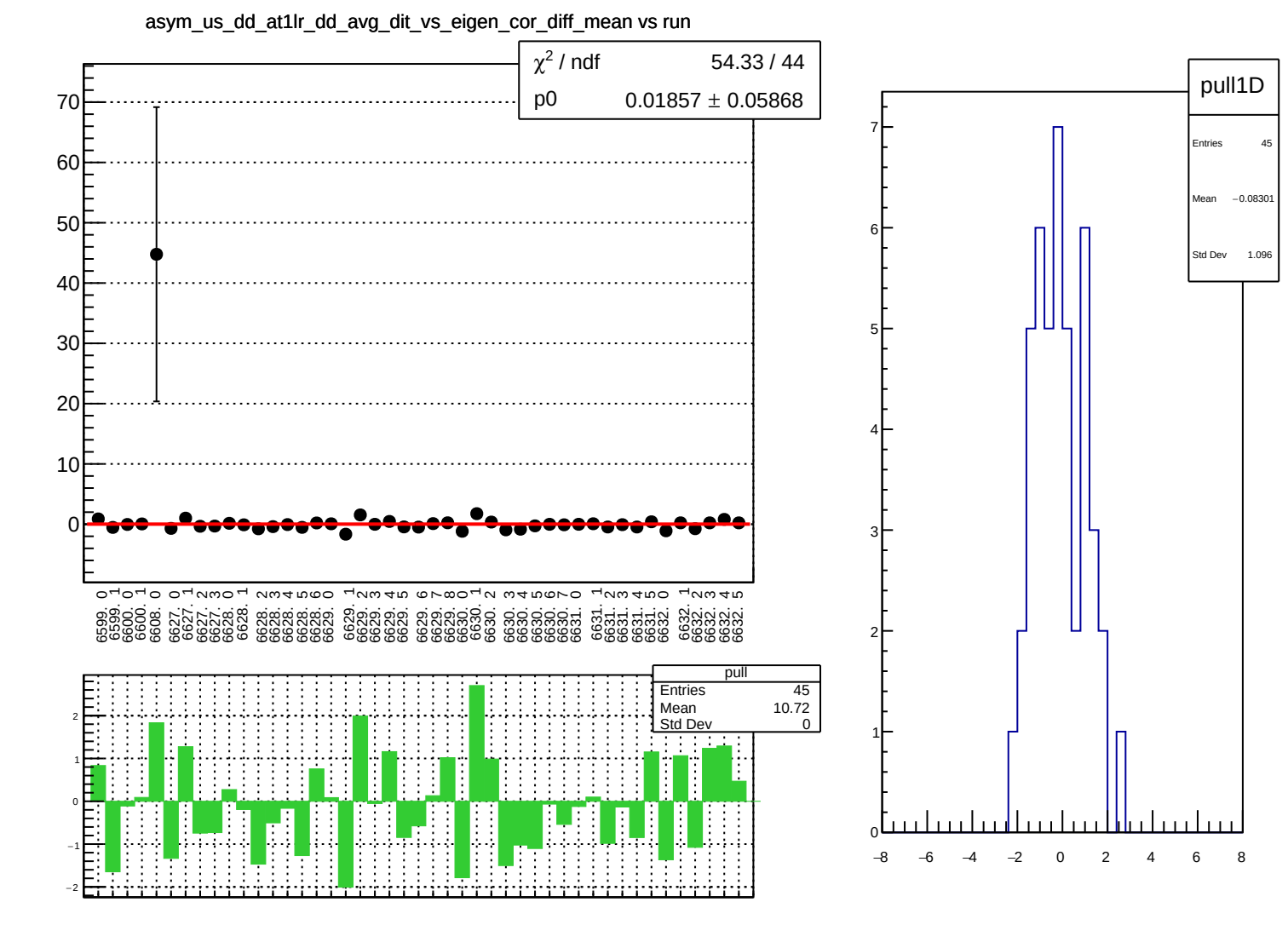
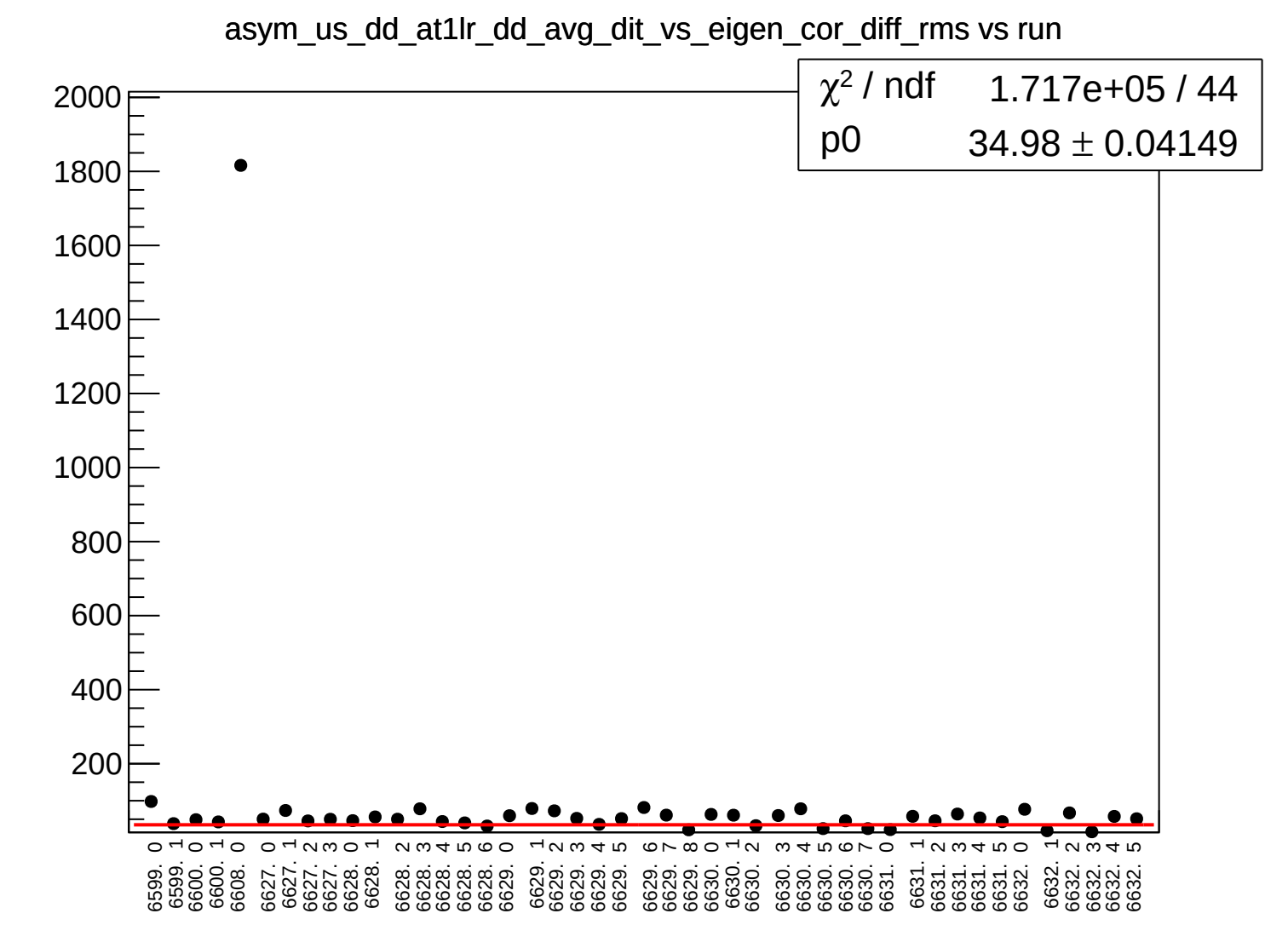
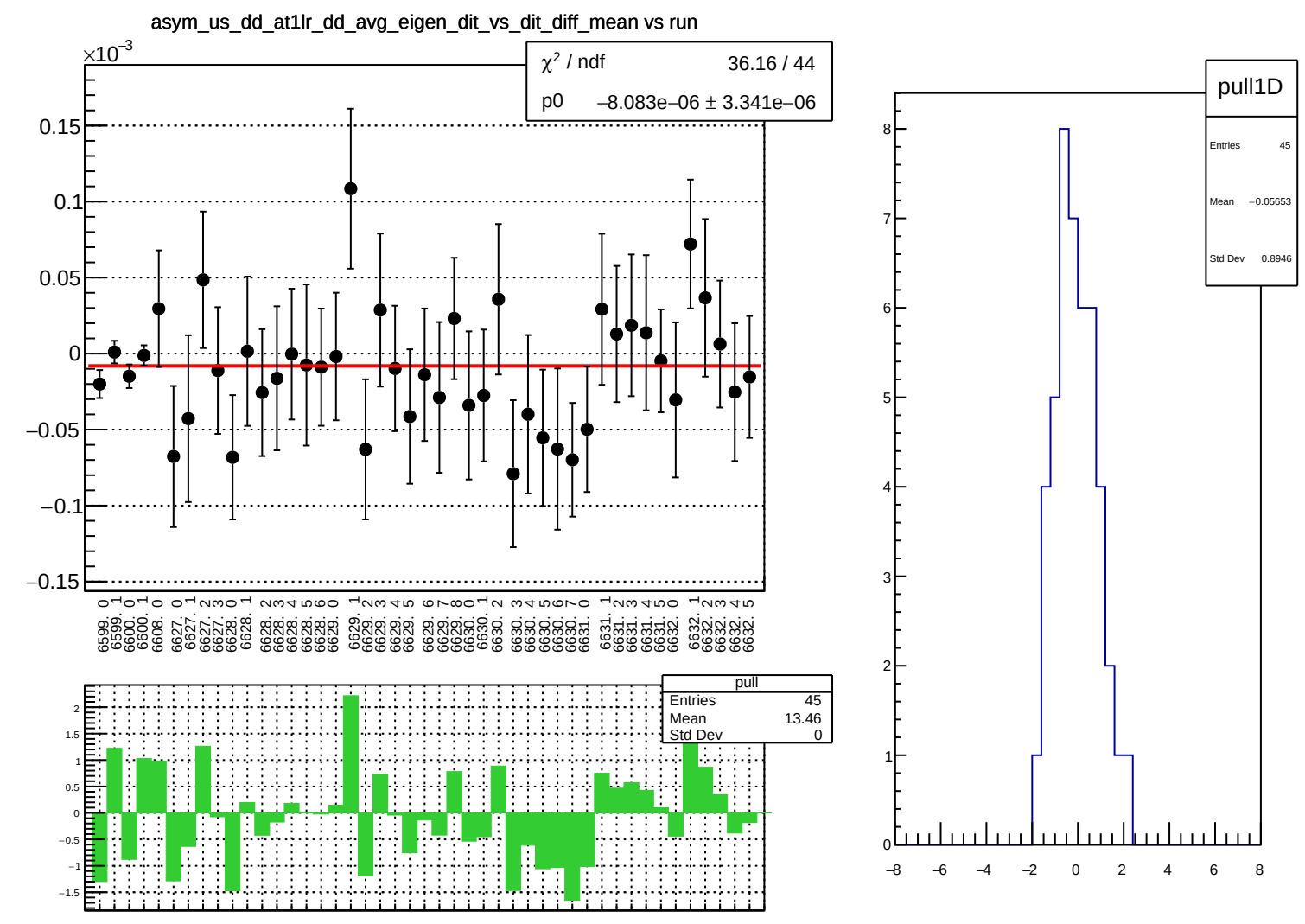
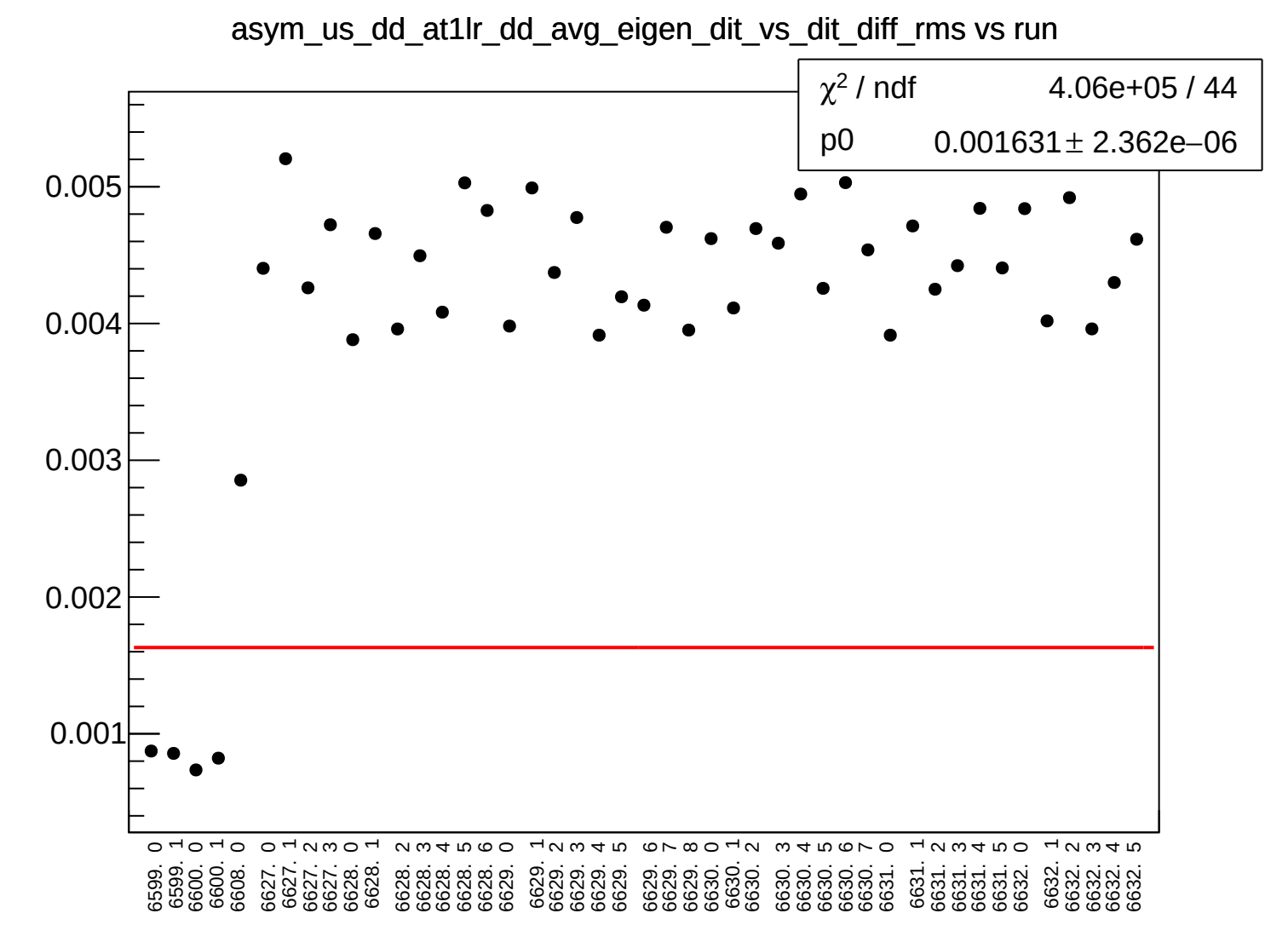
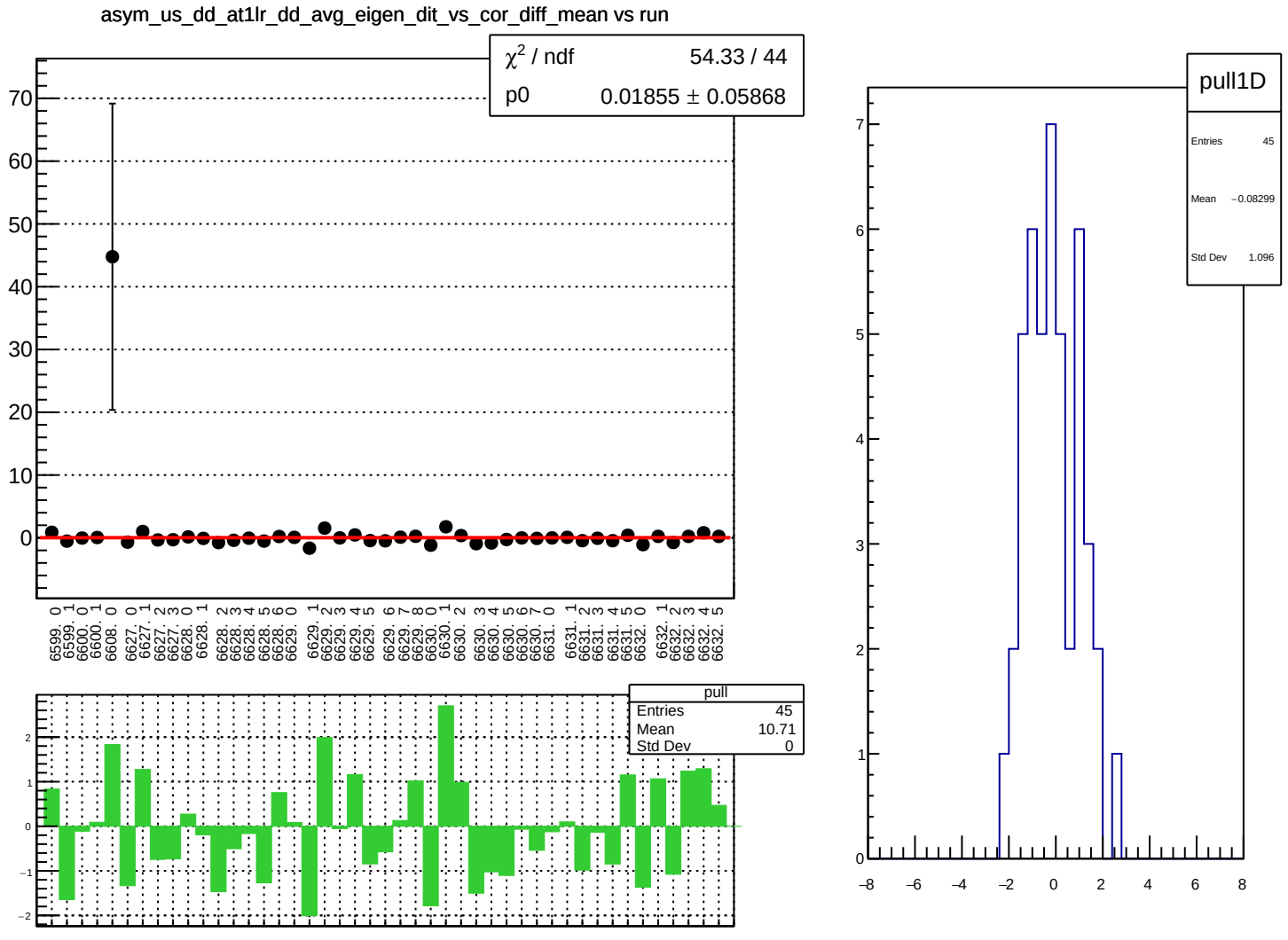
6632. 2
6632. 3
6632. 4
6632. 5

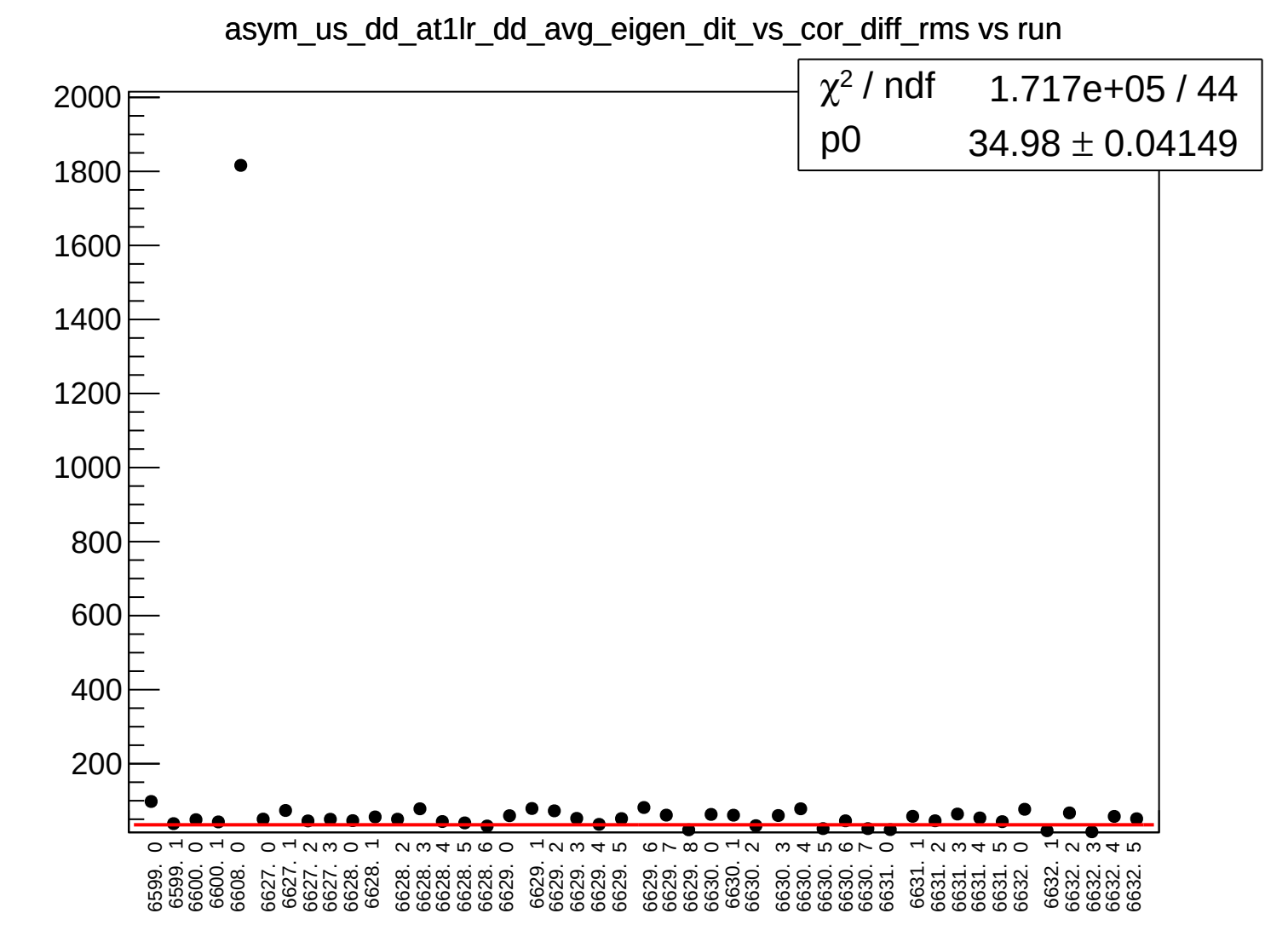

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 54.33 / 44
p0 0.01857 ± 0.05868
pull
Entries 45
Mean 10.72
Std Dev 0
pull1D
Entries 45
Mean −0.08301
Std Dev 1.096


asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.717e+05 / 44
p0 34.98 ± 0.04149
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 36.16 / 44
p0 −8.083e−06 ± 3.341e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 13.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.05653
Std Dev 0.8946
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 4.06e+05 / 44
p0 0.001631 ± 2.362e−06
0.005
0.004
0.003
0.002
0.001
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 54.33 / 44
p0 0.01855 ± 0.05868
70
60
50
40
30
20
10
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 10.71
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.08299
Std Dev 1.096
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_cor_diff_rms vs run
χ² / ndf 1.717e+05 / 44
p0 34.98 ± 0.04149
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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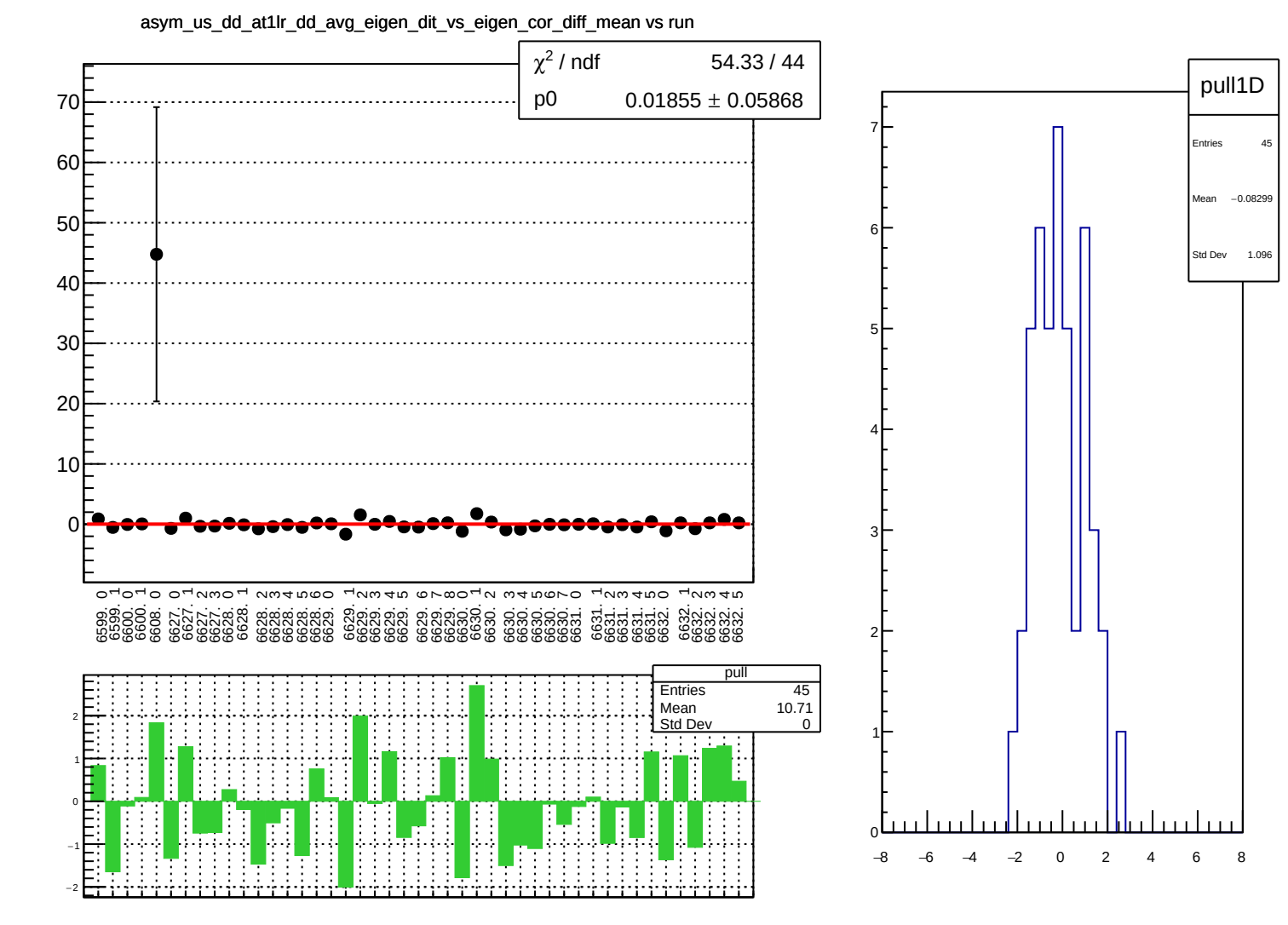
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 54.33 / 44
p0 0.01855 ± 0.05868
70
60
50
40
30
20
10
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 3
6629. 4
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6629. 6
6629. 7
6629. 8
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6630. 1
6630. 2
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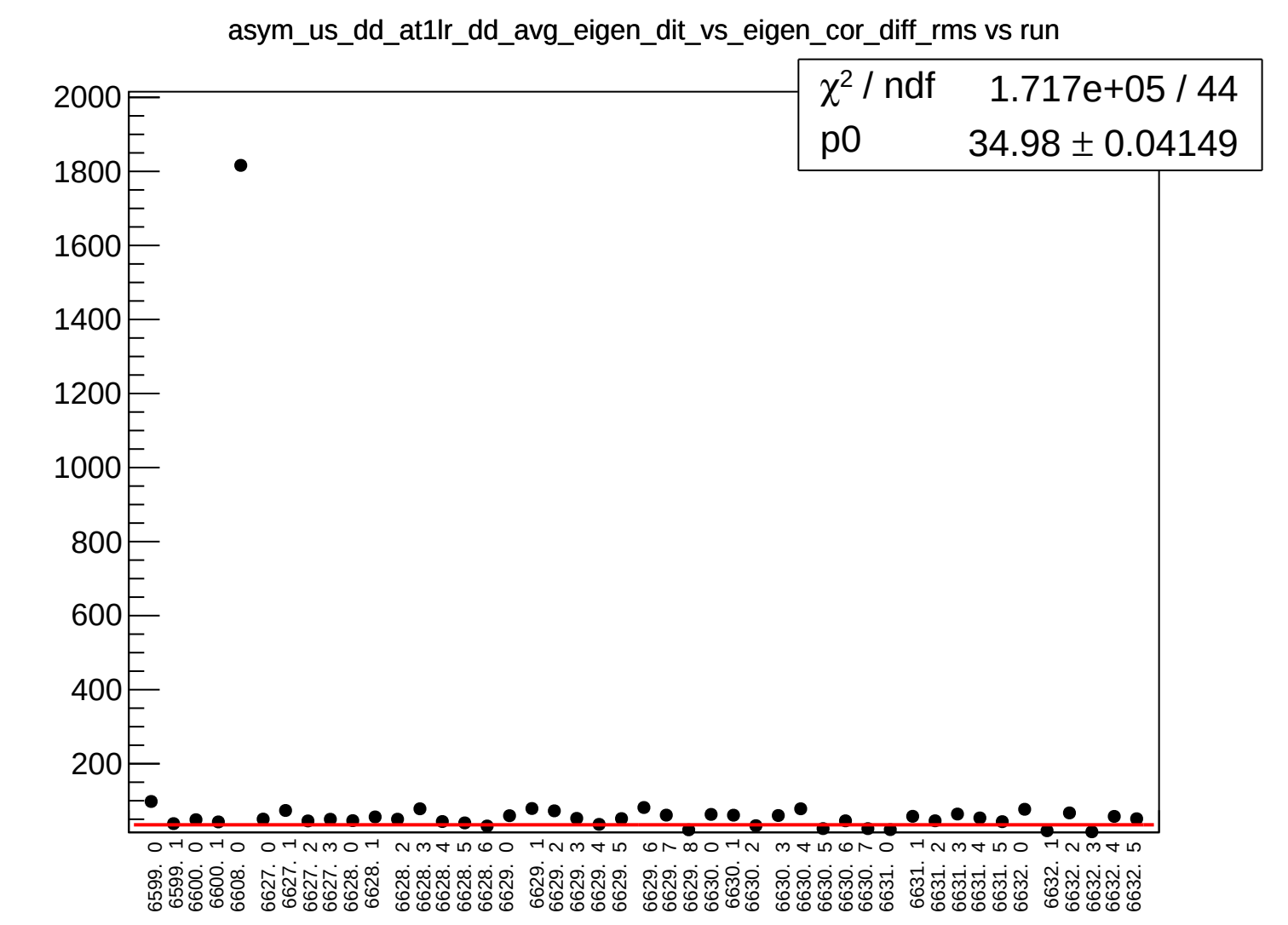
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 10.71
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.08299
Std Dev 1.096
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.717e+05 / 44
p0 34.98 ± 0.04149
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
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6632. 1
6632. 2
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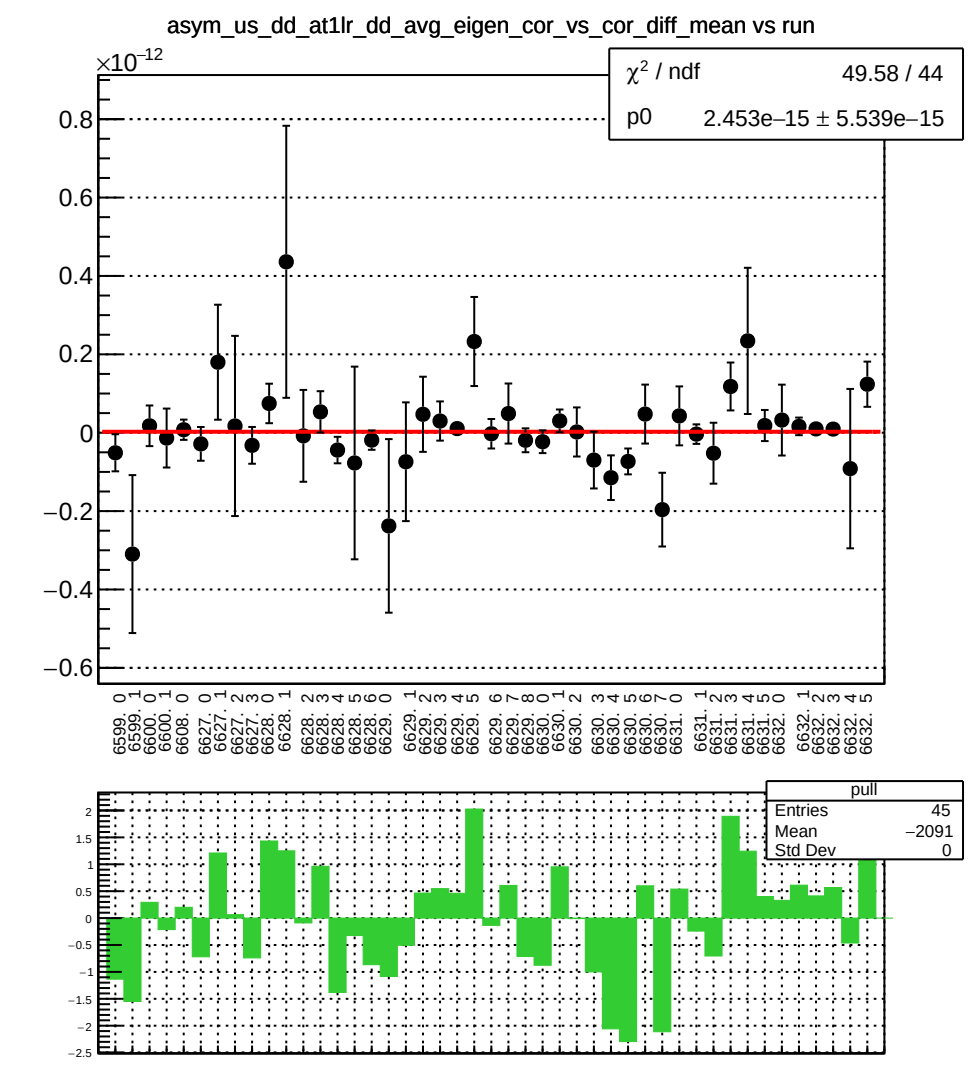
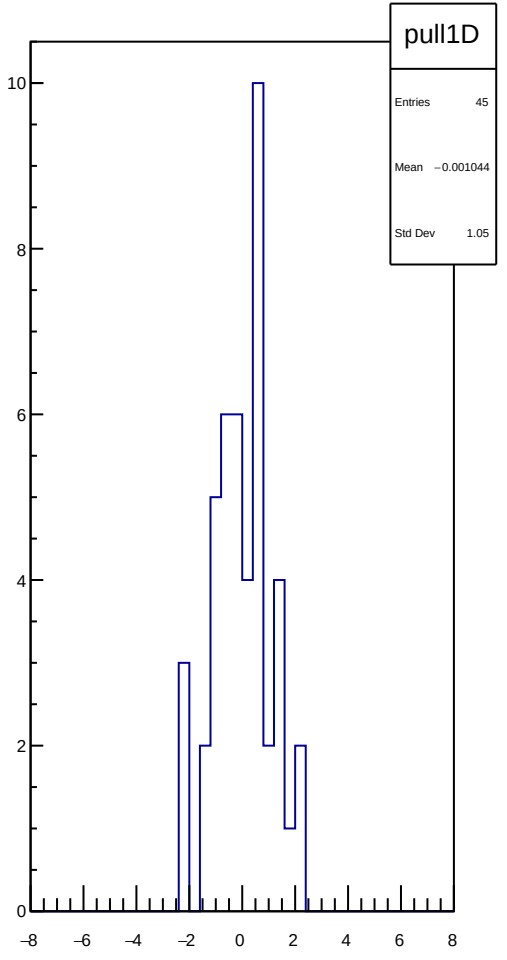
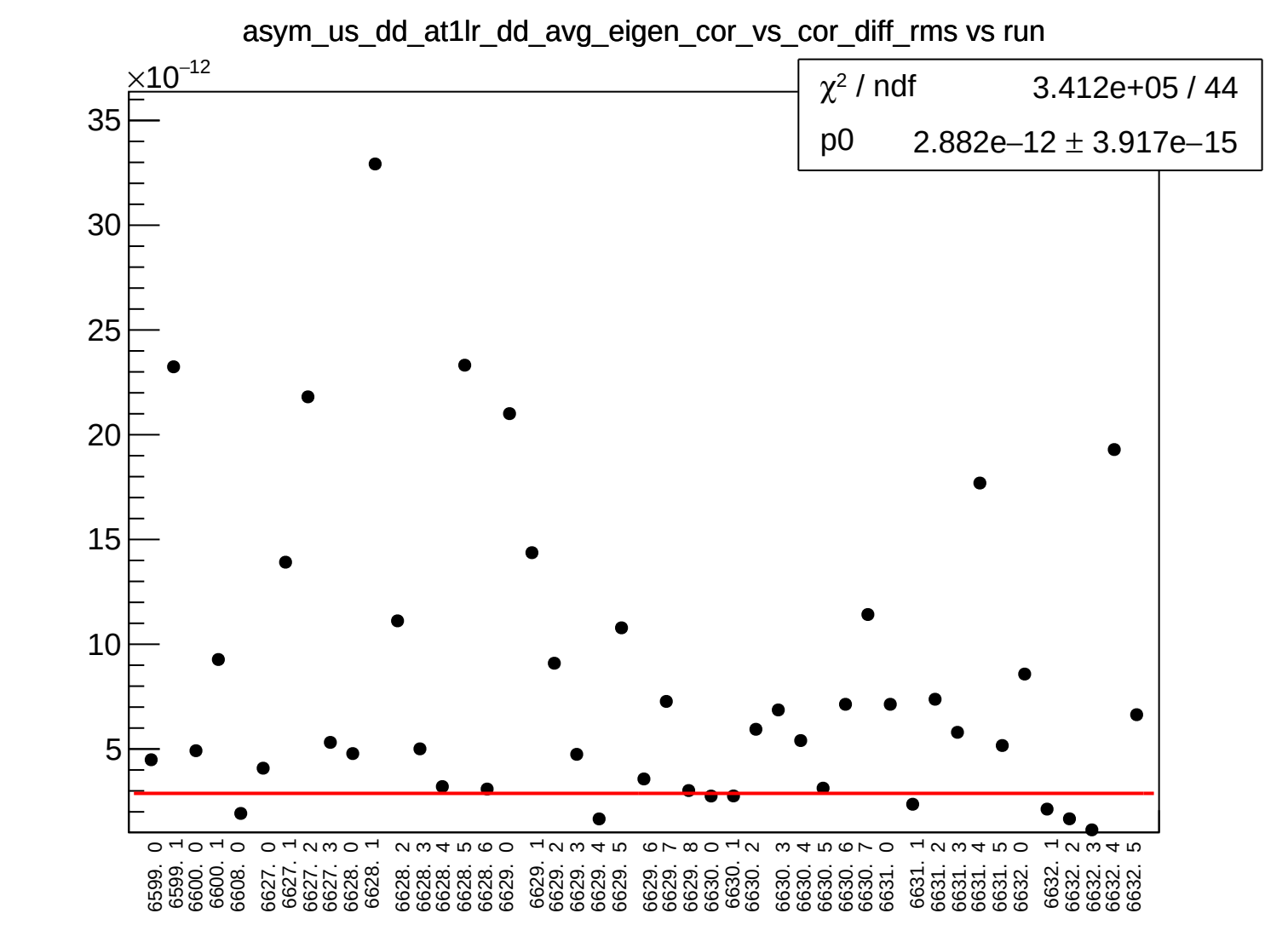
6632. 4
6632. 5


asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 49.58 / 44
p0 2.453e−15 ± 5.539e−15
pull
Entries 45
Mean −2091
Std Dev 0


pull1D
Entries 45
Mean −0.001044
Std Dev 1.05


asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.412e+05 / 44
p0 2.882e−12 ± 3.917e−15
35
30
25
20
15
10
5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
6628. 3
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6628. 5
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6629. 5
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6629. 7
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6630. 1
6630. 2
6630. 3
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 3
6631. 4
6631. 5
6632. 0
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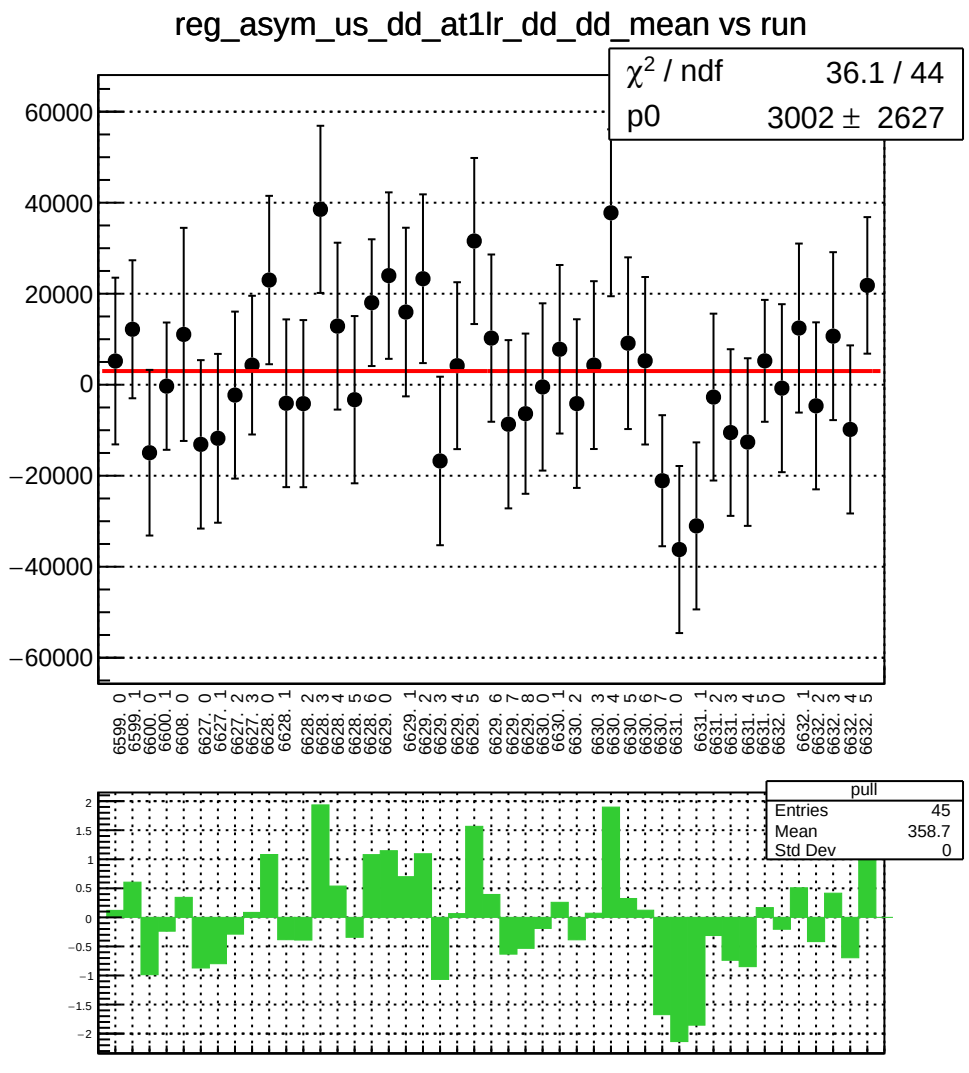
6632. 4
6632. 5


reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 36.1 / 44
p0 3002 ± 2627
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
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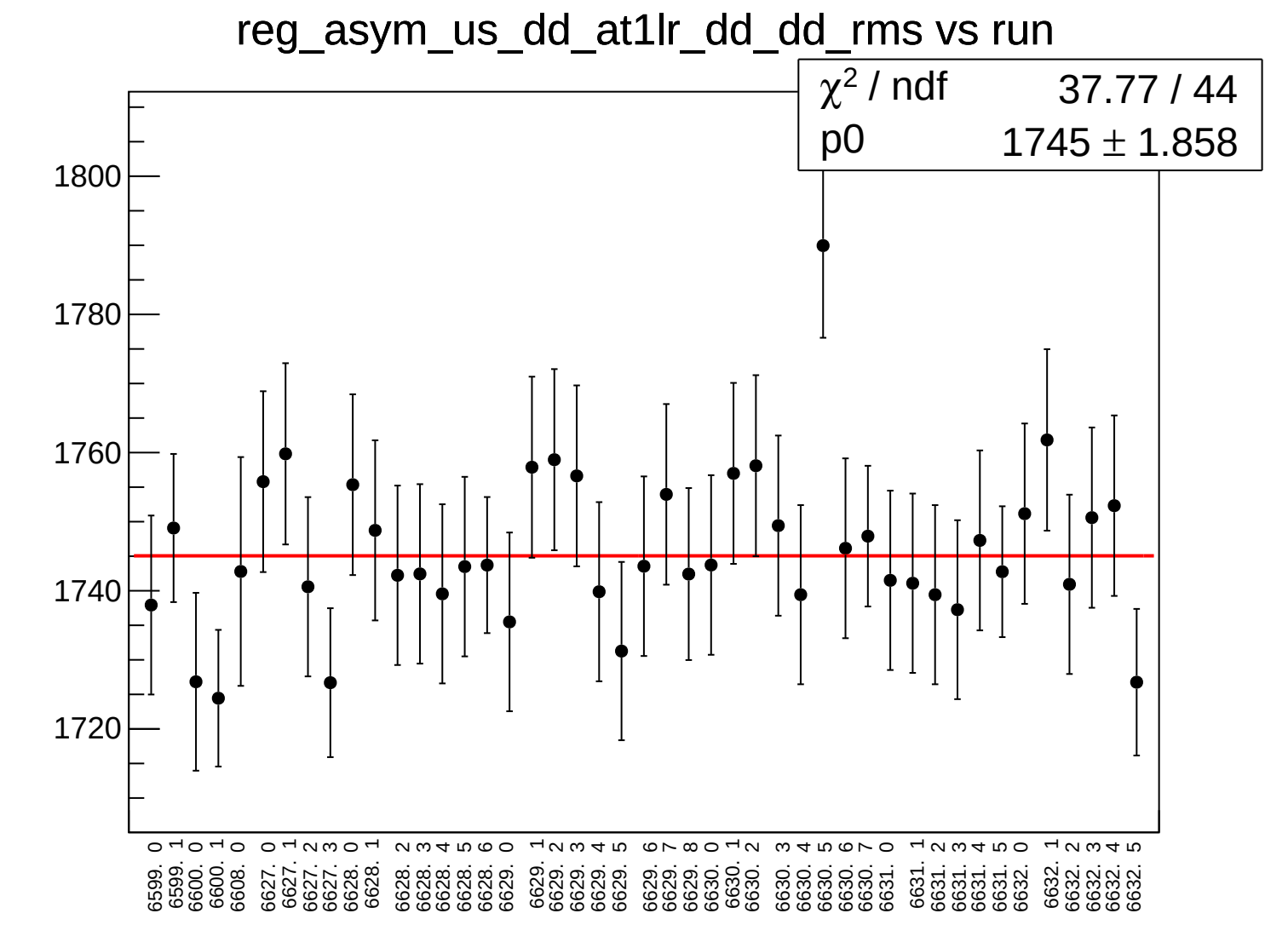
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 358.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.00447
Std Dev 0.8957
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 37.77 / 44
p0 1745 ± 1.858
1800
1780
1760
1740
1720
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6628. 6
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6629. 1
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6629. 3
6629. 4
6629. 5
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6629. 8
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6630. 1
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6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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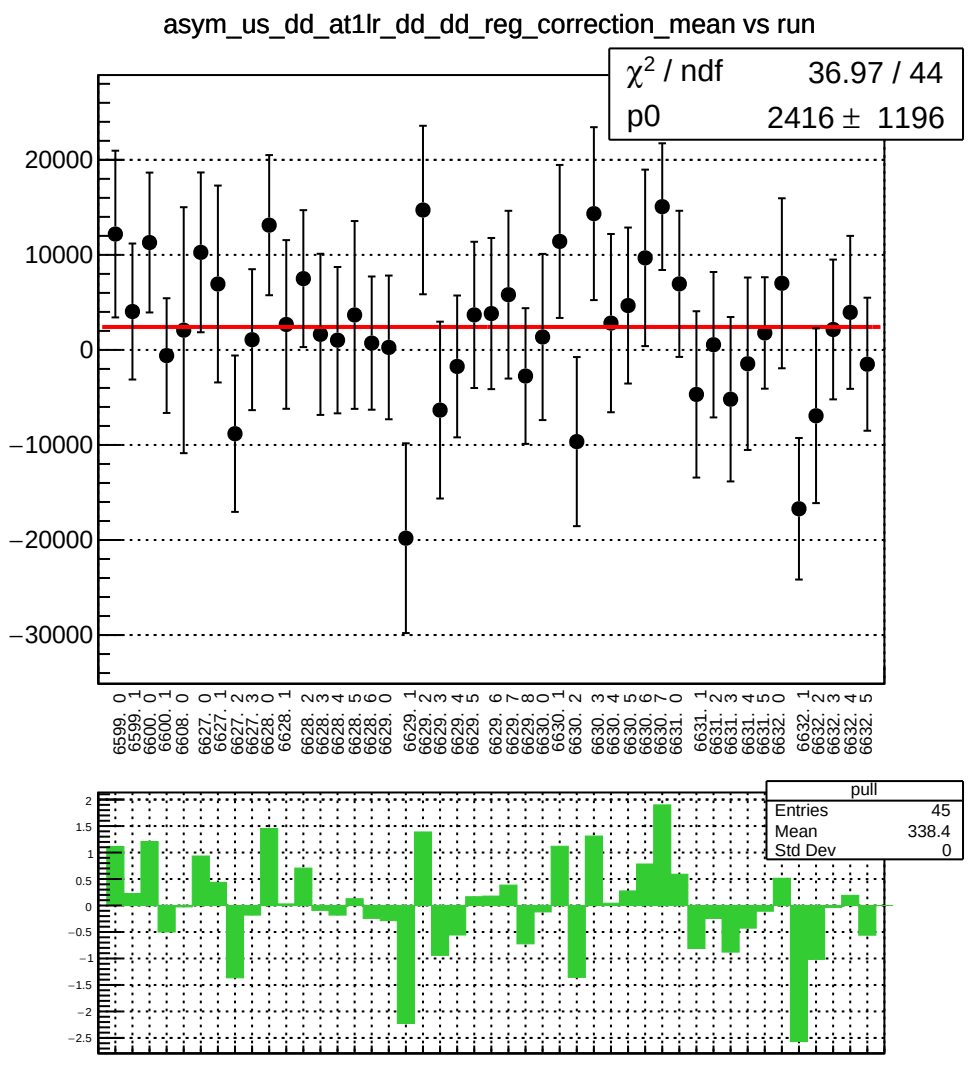
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 36.97 / 44
p0 2416 ± 1196
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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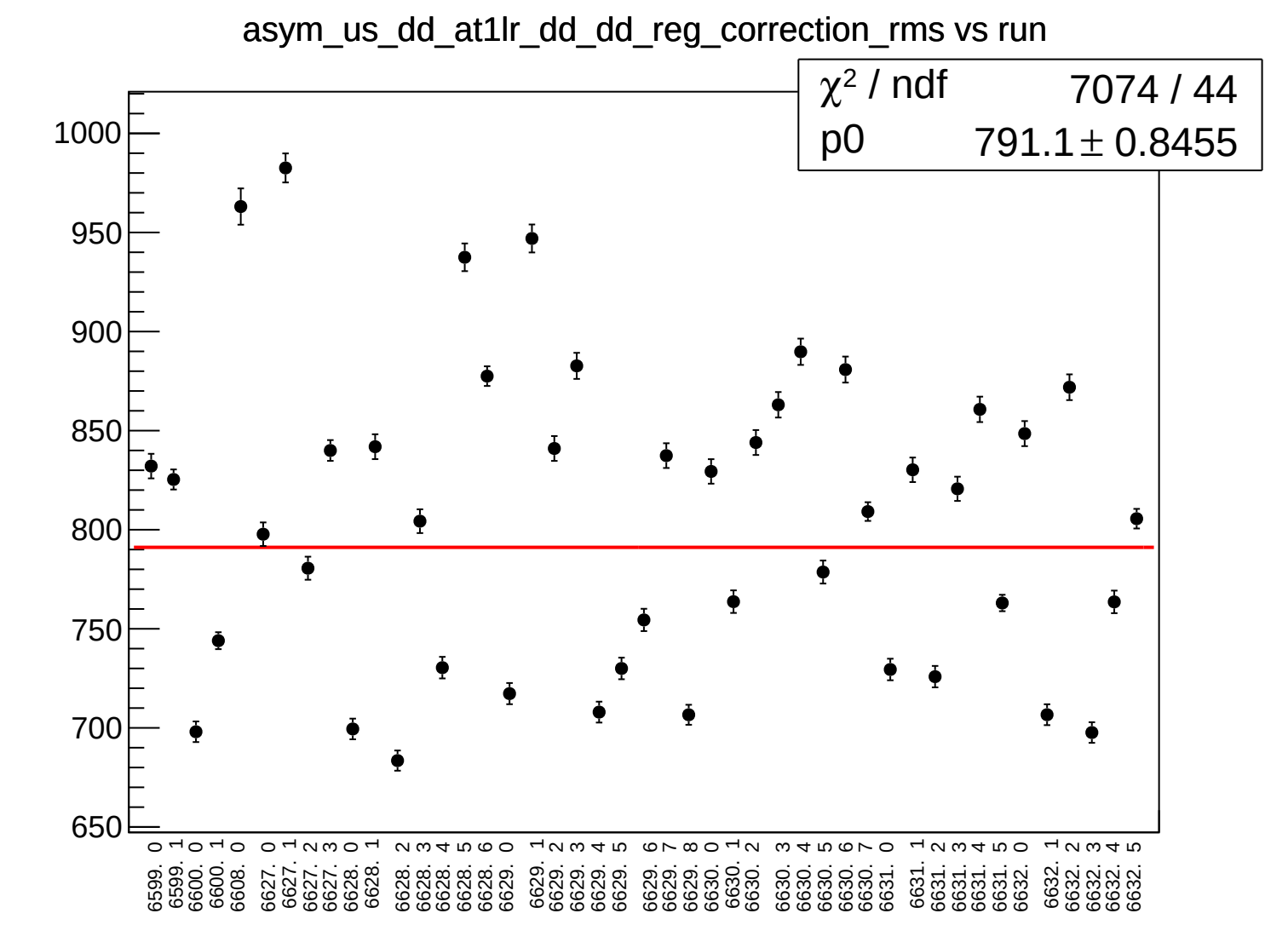
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 338.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.008166
Std Dev 0.9063
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 7074 / 44
p0 791.1 ± 0.8455
1000
950
900
850
800
750
700
650
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
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6632. 0
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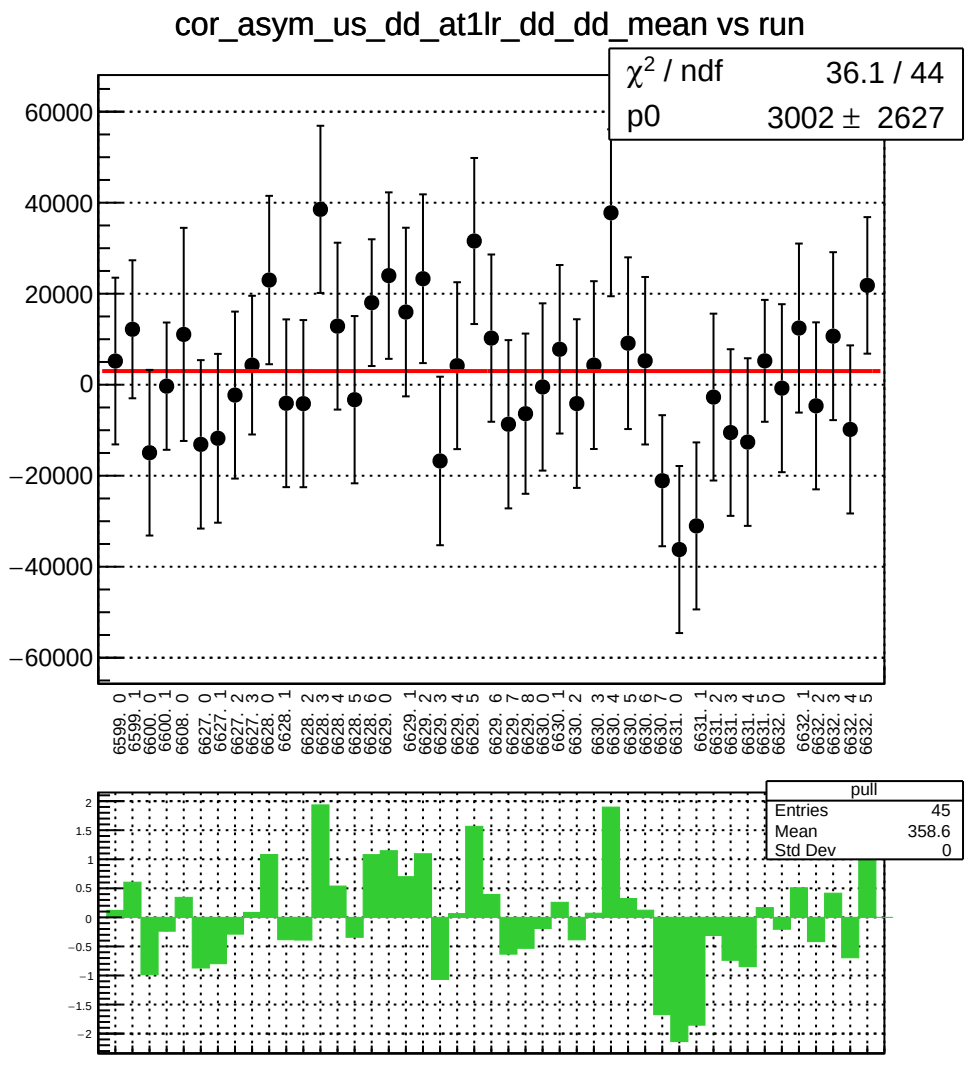
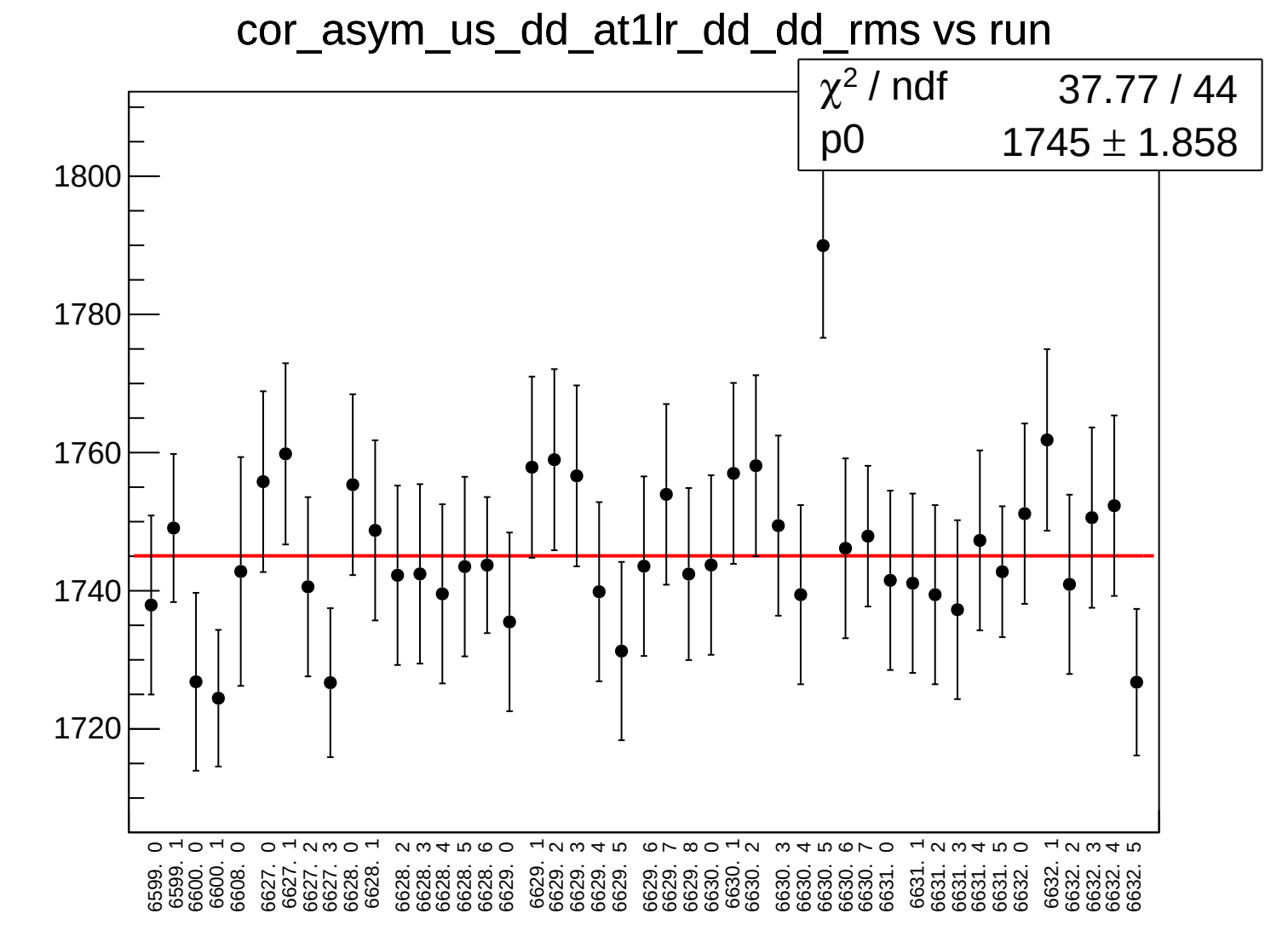
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 36.1 / 44
p0 3002 ± 2627
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 358.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.00447
Std Dev 0.8957
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 37.77 / 44
p0 1745 ± 1.858
1800
1780
1760
1740
1720
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
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6629. 2
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6629. 6
6629. 7
6629. 8
6630. 0
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6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
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6632. 0
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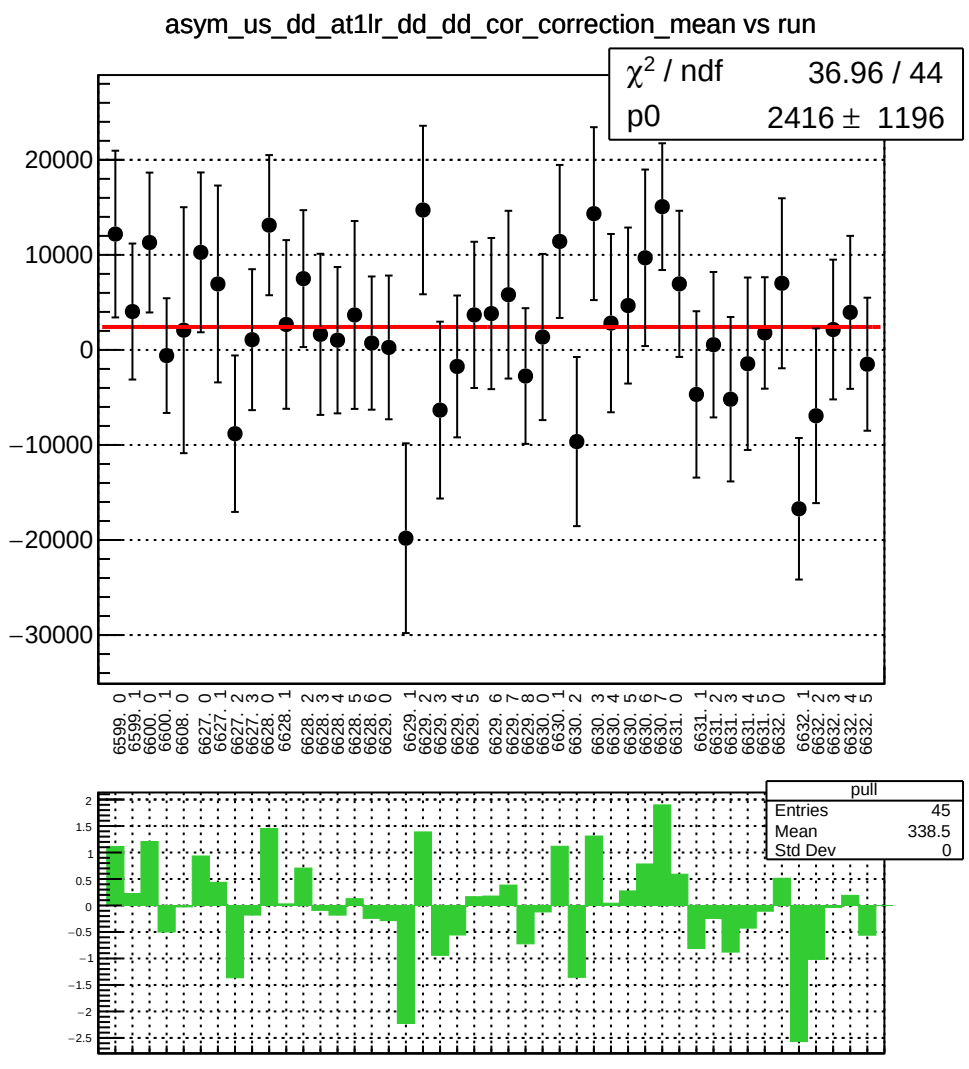
6632. 5


asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 36.96 / 44
p0 2416 ± 1196
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 6
6630. 7
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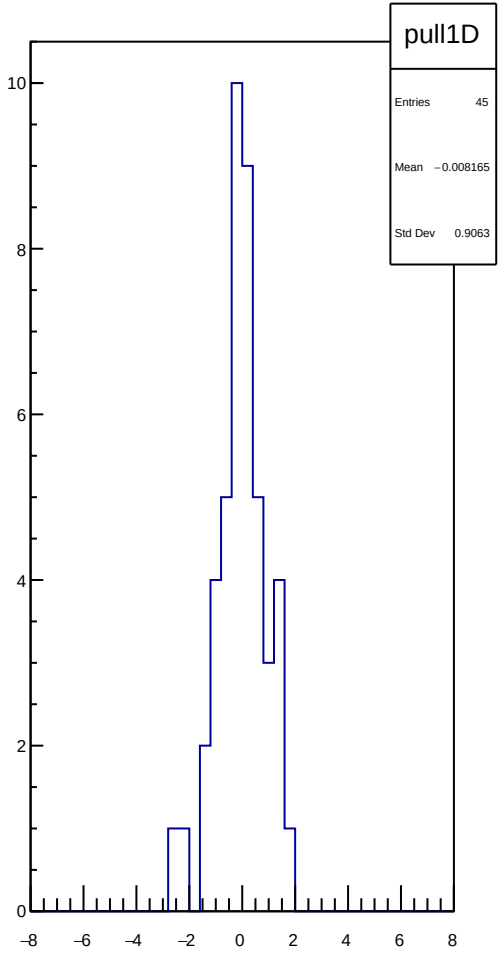
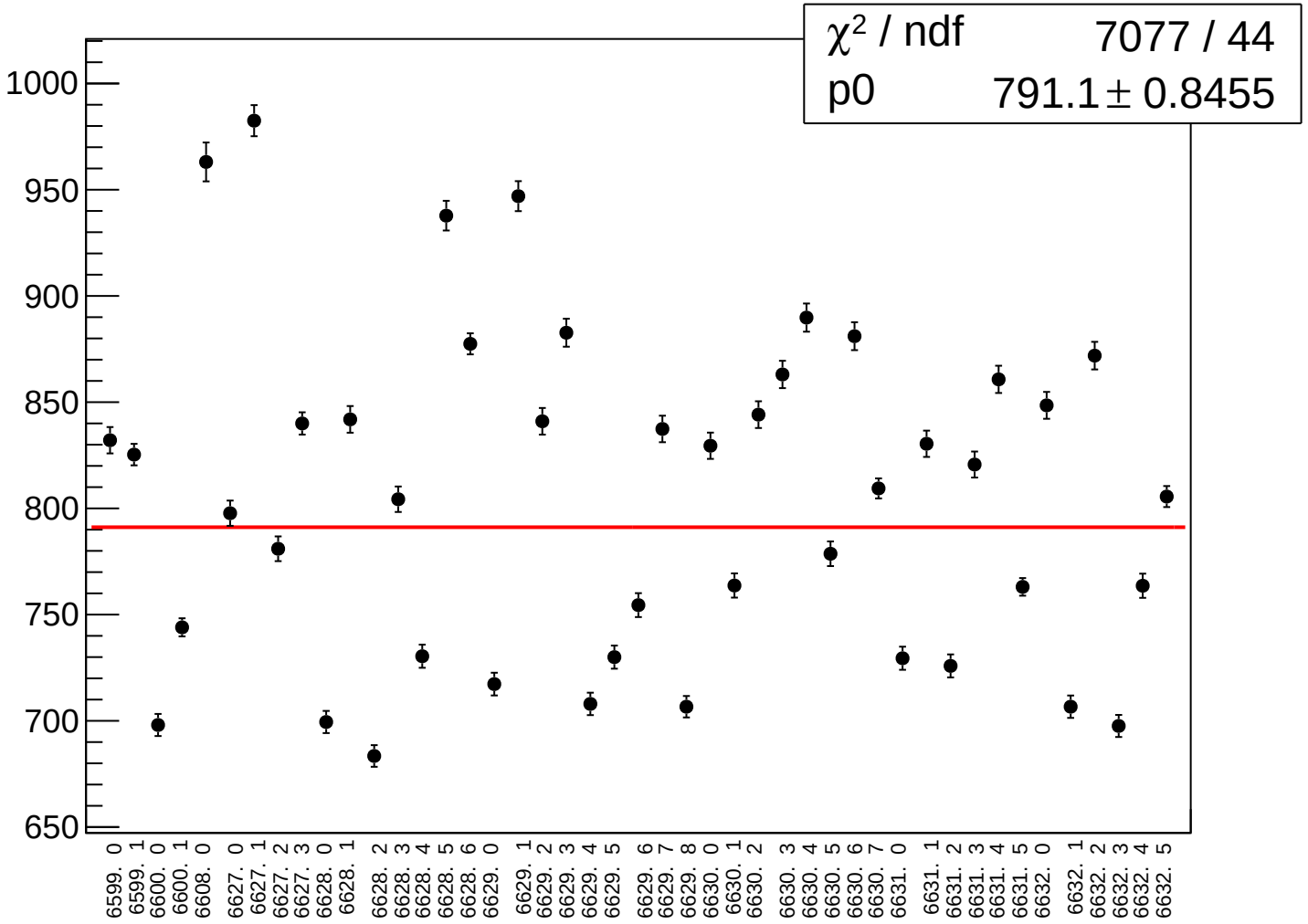
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 338.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean −0.008165
Std Dev 0.9063
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 7077 / 44
p0 791.1 ± 0.8455
1000
950
900
850
800
750
700
650
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
6628. 3
6628. 4
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6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
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6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
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6631. 1
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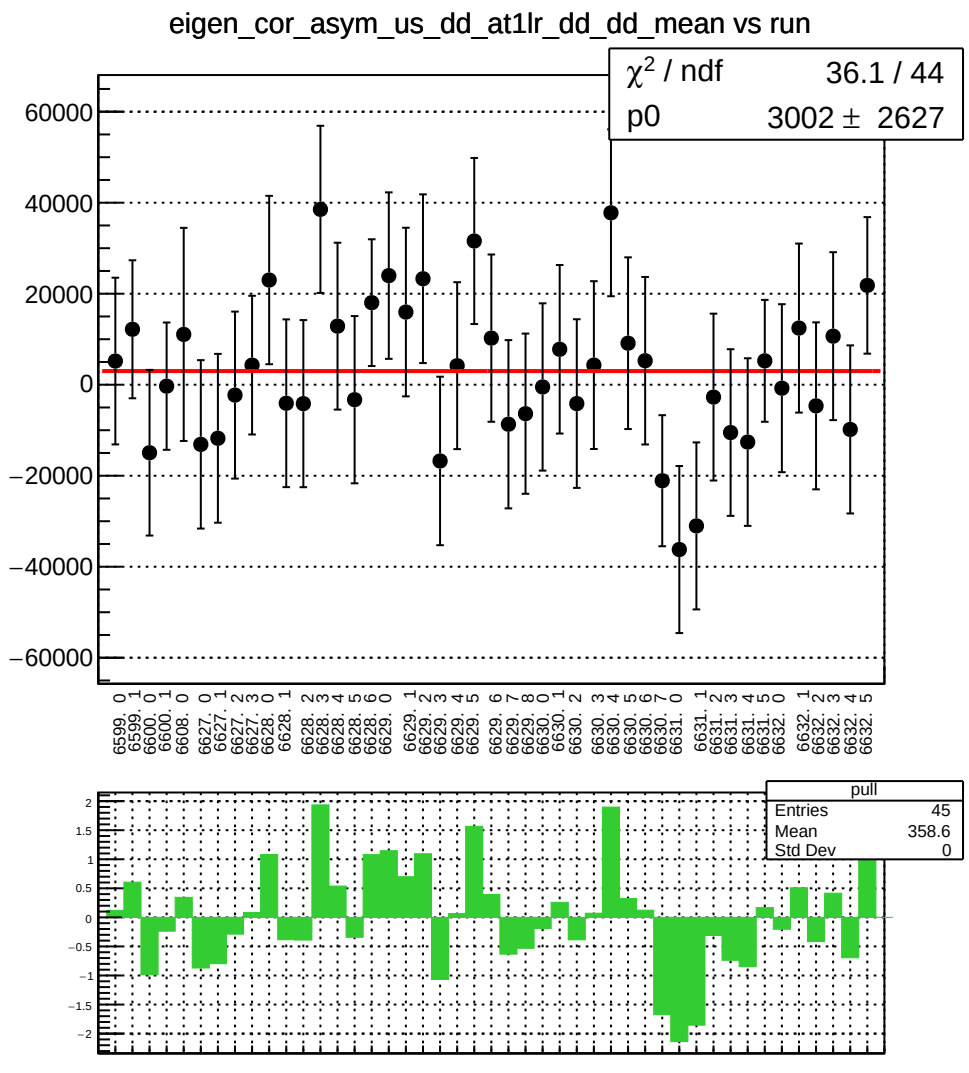
6632. 5


eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 36.1 / 44
p0 3002 ± 2627
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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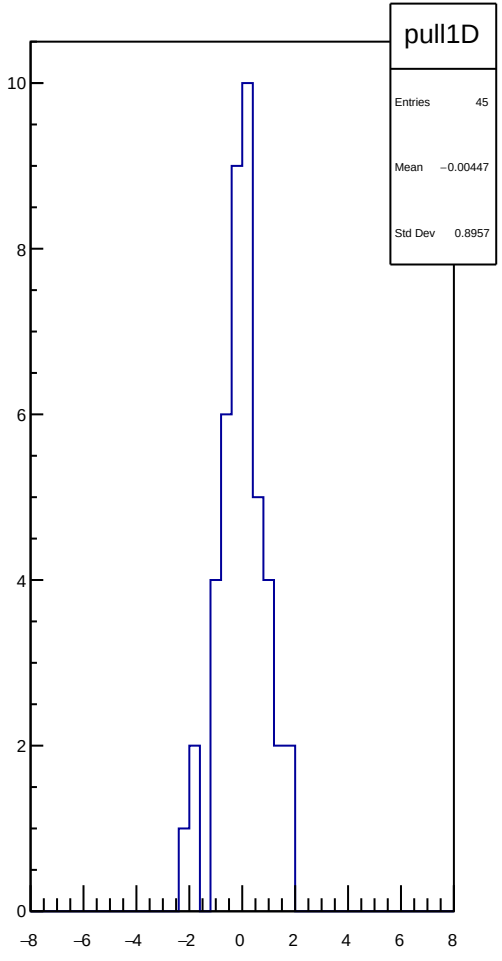
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 358.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.00447
Std Dev 0.8957
10
8
6
4
2
0
−8
−6
−4
−2
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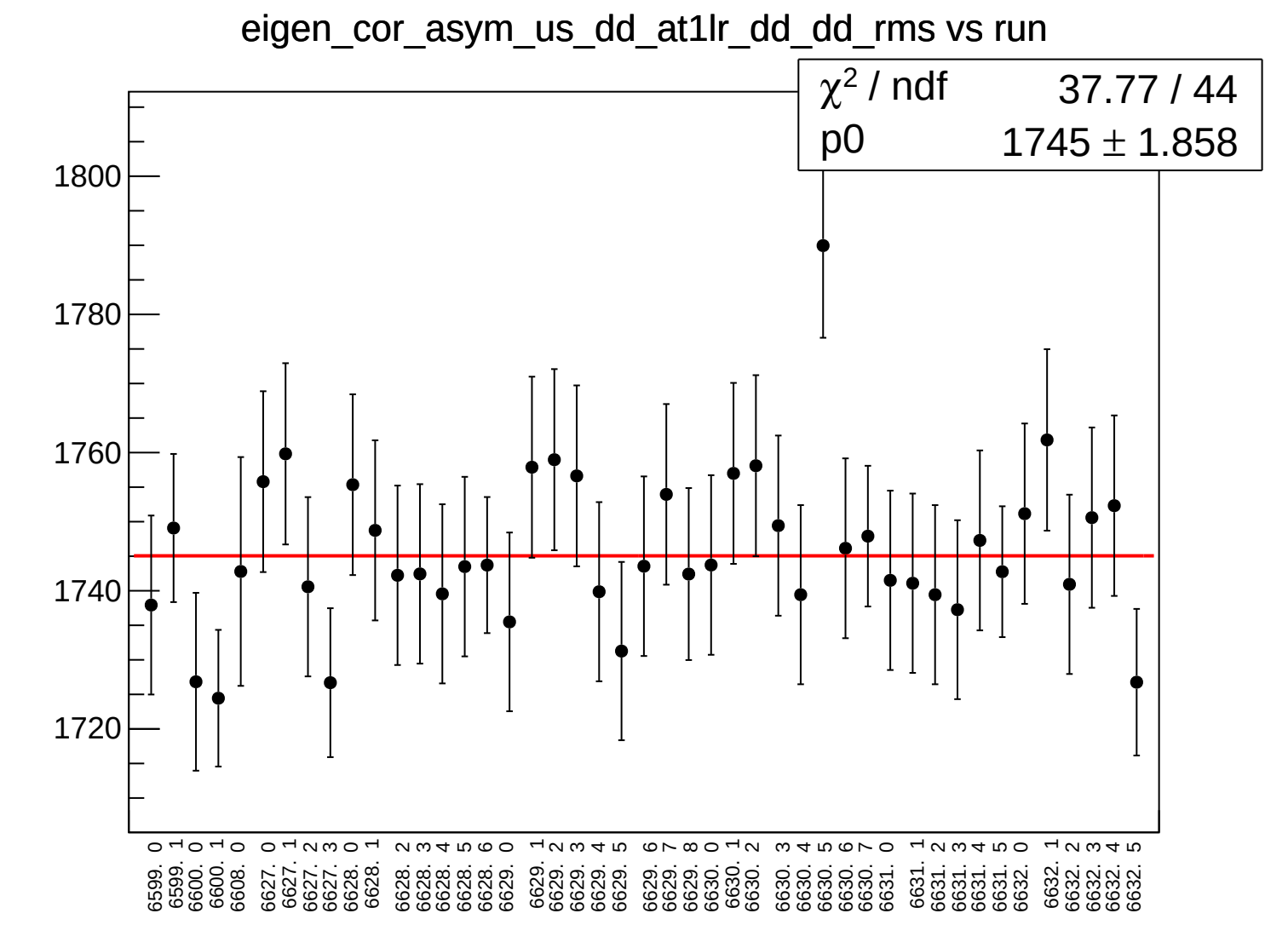
2
4
6
8


eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 37.77 / 44
p0 1745 ± 1.858
1800
1780
1760
1740
1720
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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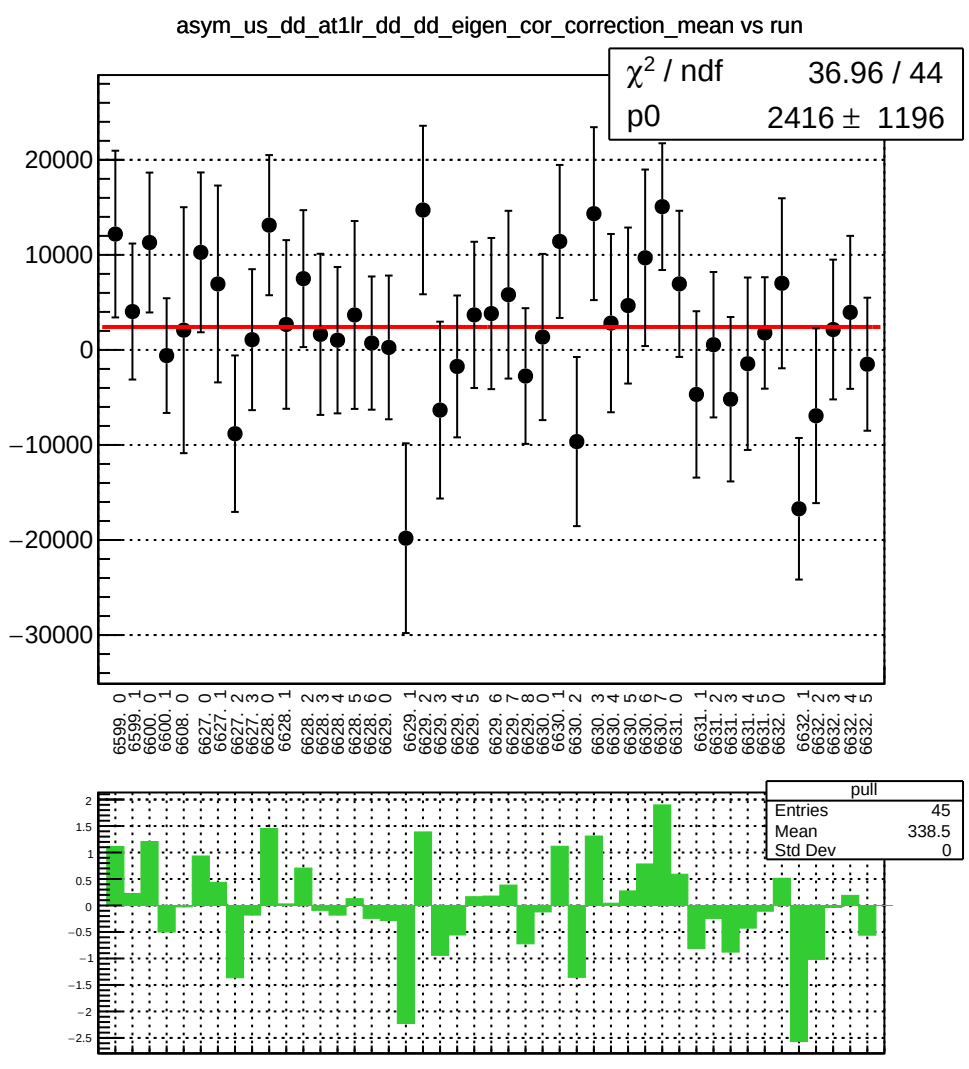
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 36.96 / 44
p0 2416 ± 1196
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
6628. 3
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6628. 5
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6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6631. 4
6631. 5
6632. 0
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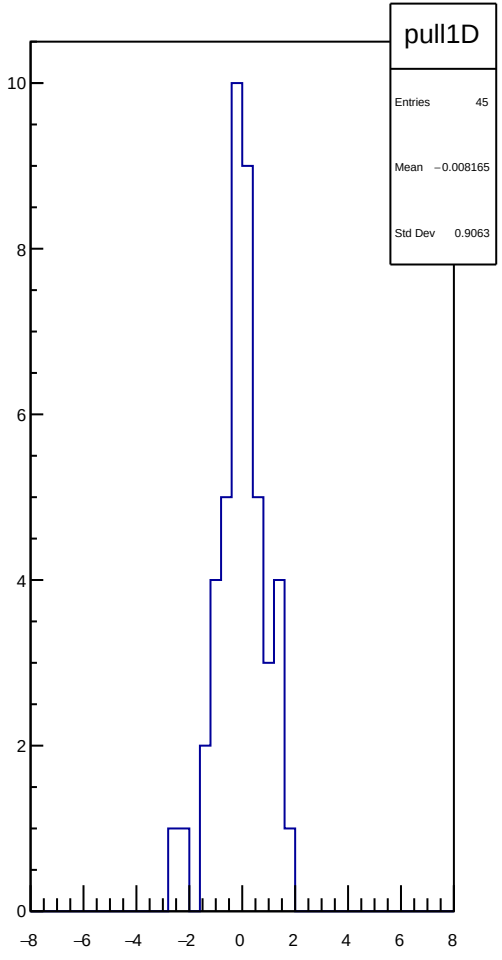
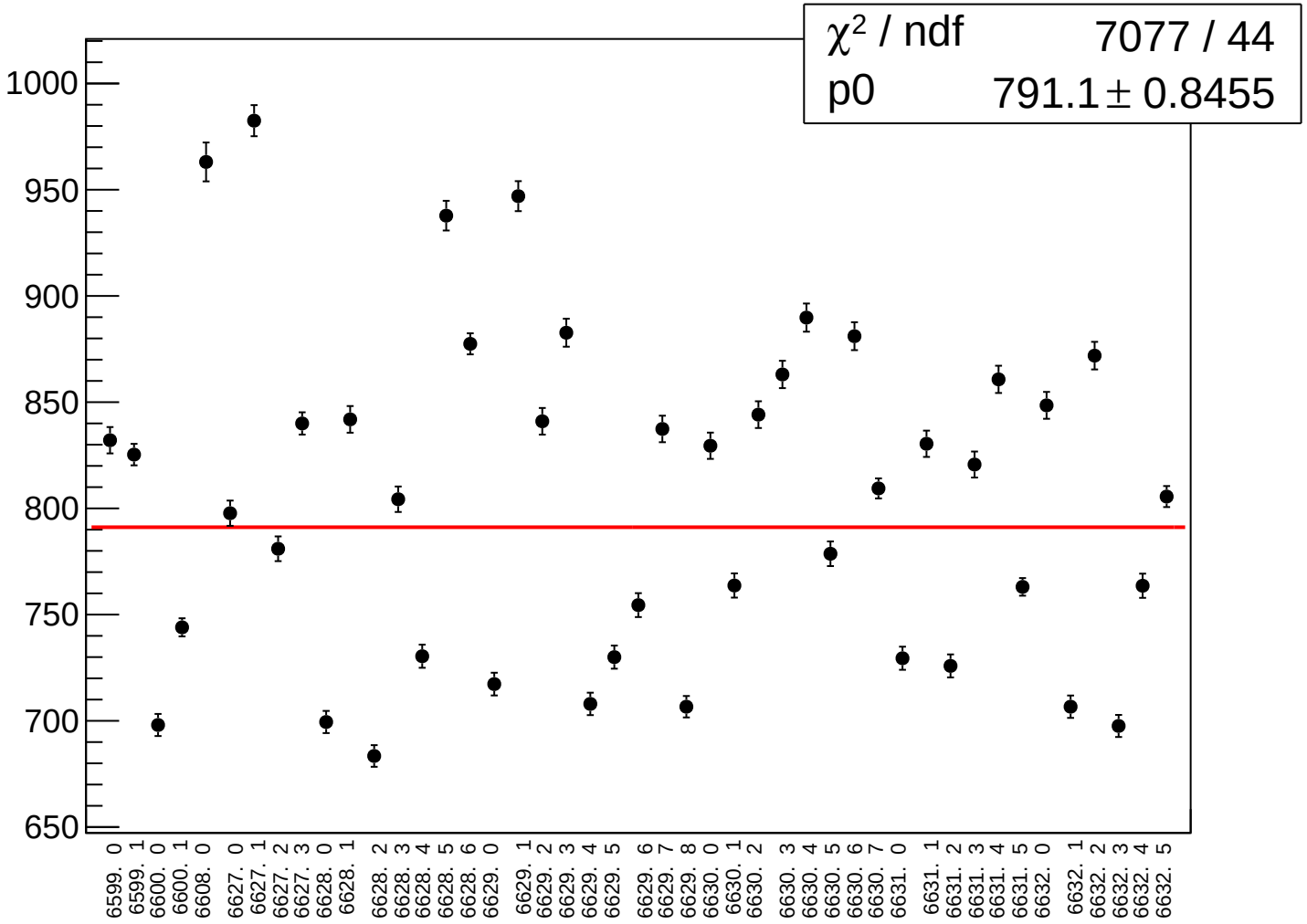
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 338.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean −0.008165
Std Dev 0.9063
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 7077 / 44
p0 791.1 ± 0.8455
1000
950
900
850
800
750
700
650
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
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6629. 6
6629. 7
6629. 8
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6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
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6631. 1
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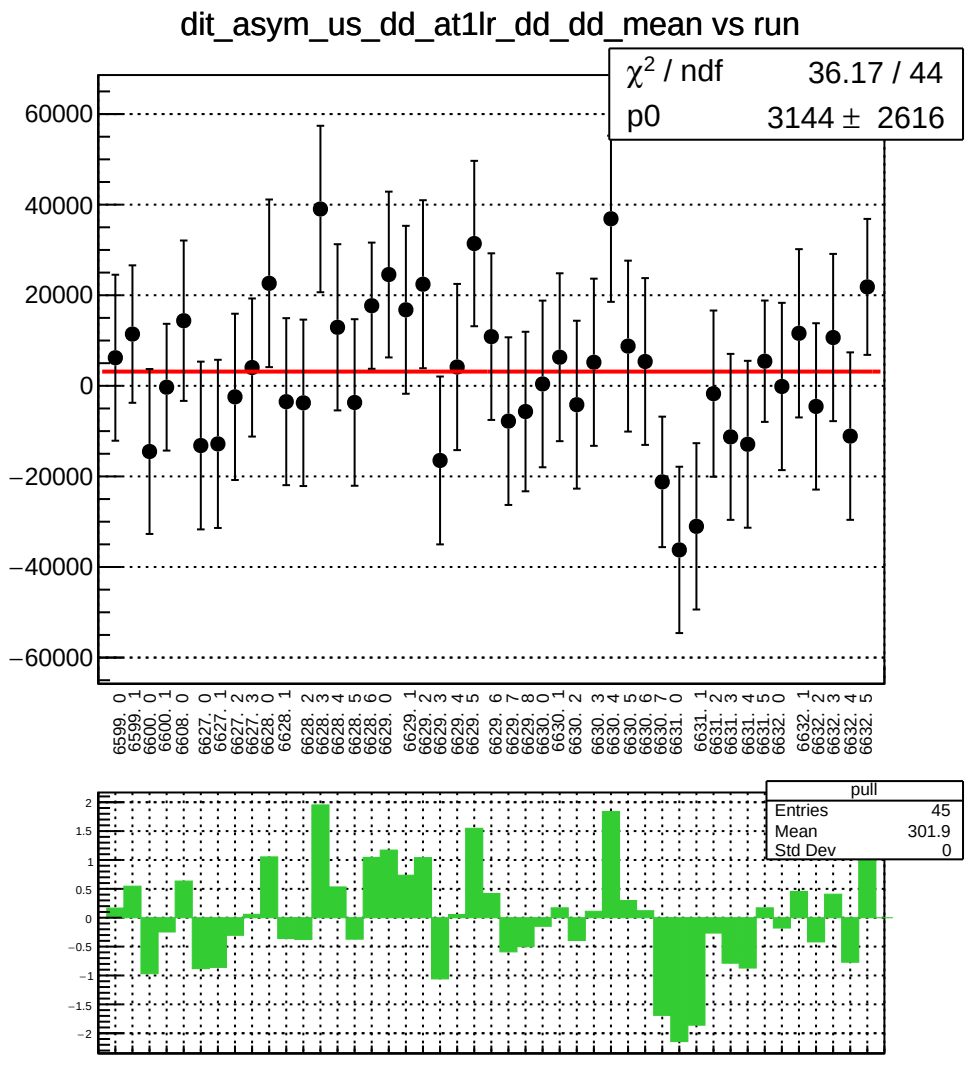
6632. 5


dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 36.17 / 44
p0 3144 ± 2616
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
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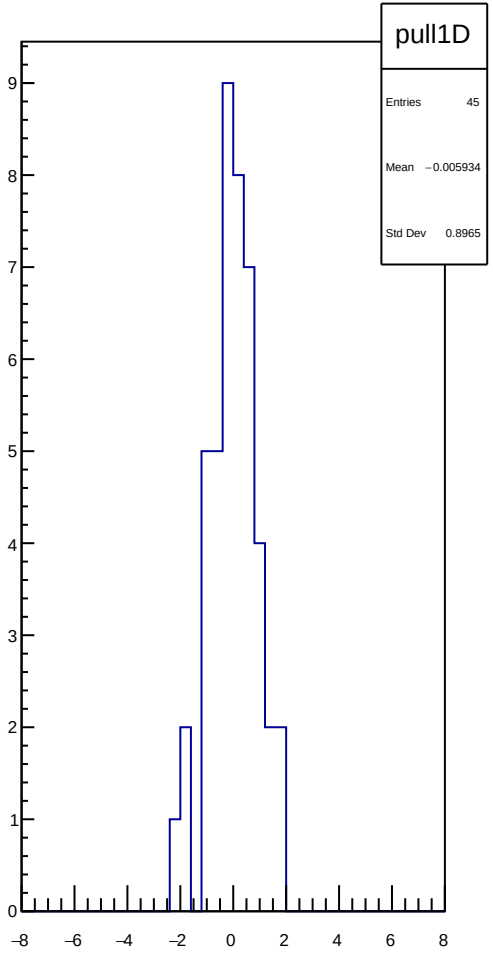
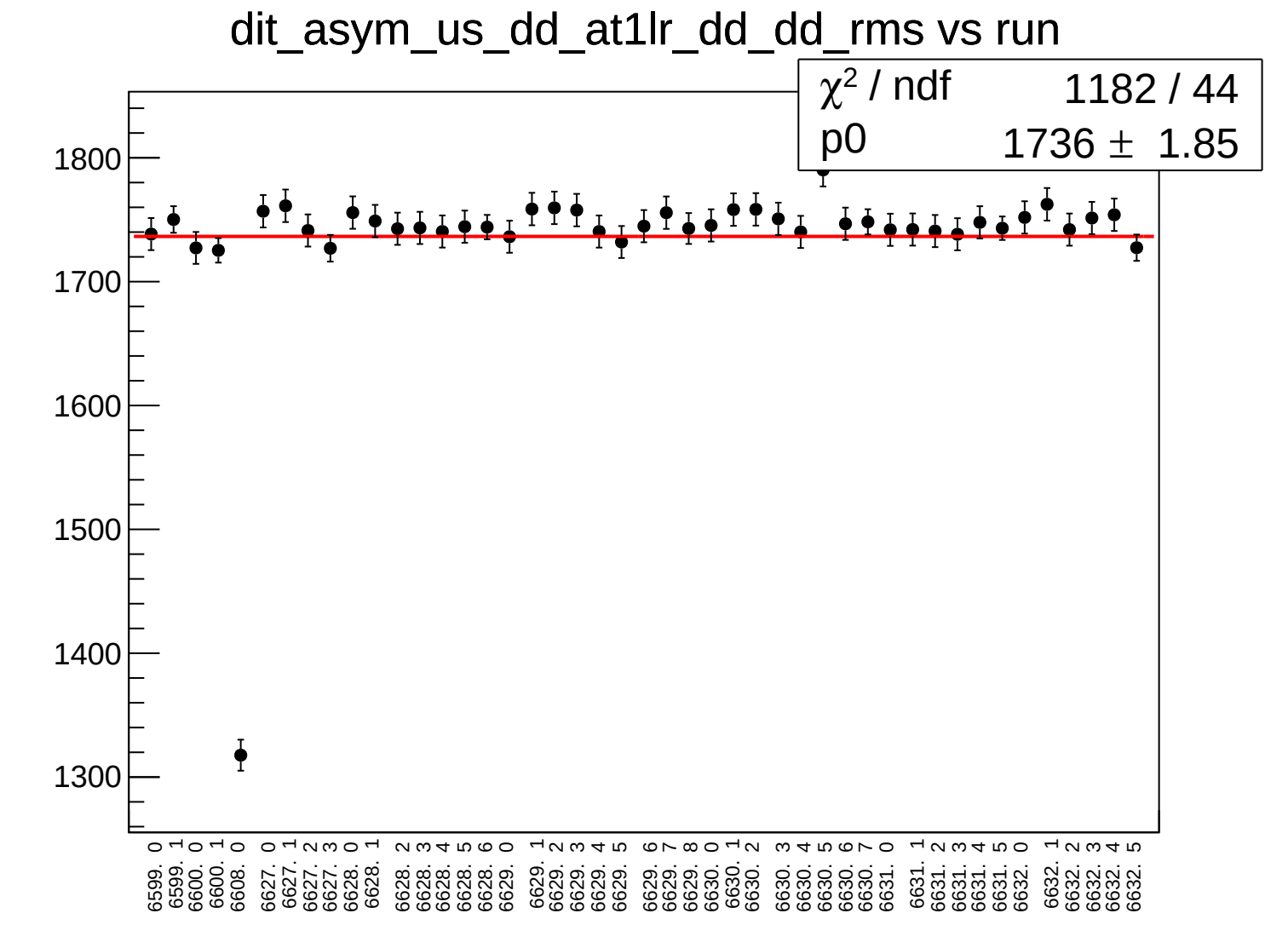
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 301.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.005934
Std Dev 0.8965
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 1182 / 44
p0 1736 ± 1.85
1800
1700
1600
1500
1400
1300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 5
6630. 6
6630. 7
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6631. 1
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6632. 2
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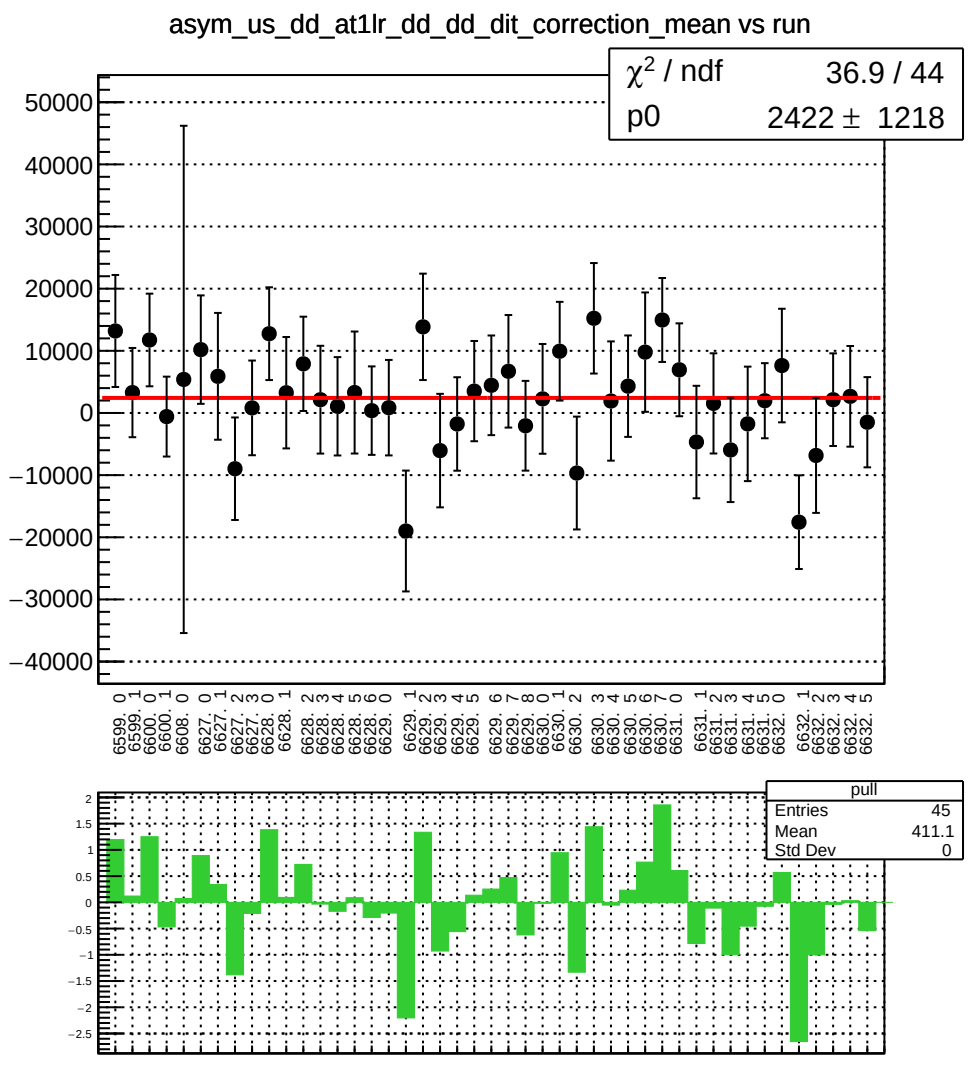
6632. 5


asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 36.9 / 44
p0 2422 ± 1218
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
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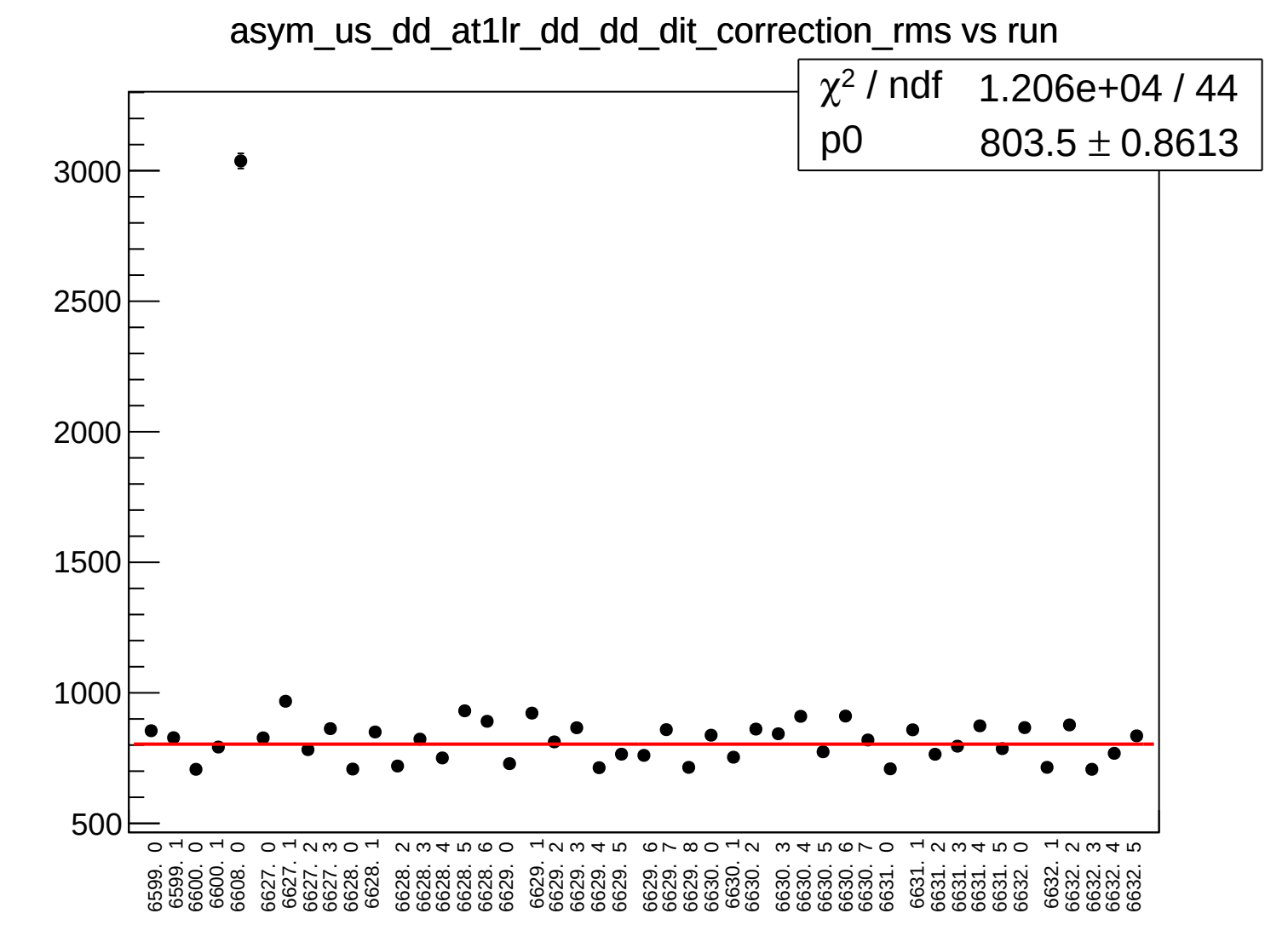
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 411.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.006845
Std Dev 0.9056
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.206e+04 / 44
p0 803.5 ± 0.8613
3000
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 5
6630. 6
6630. 7
6631. 0
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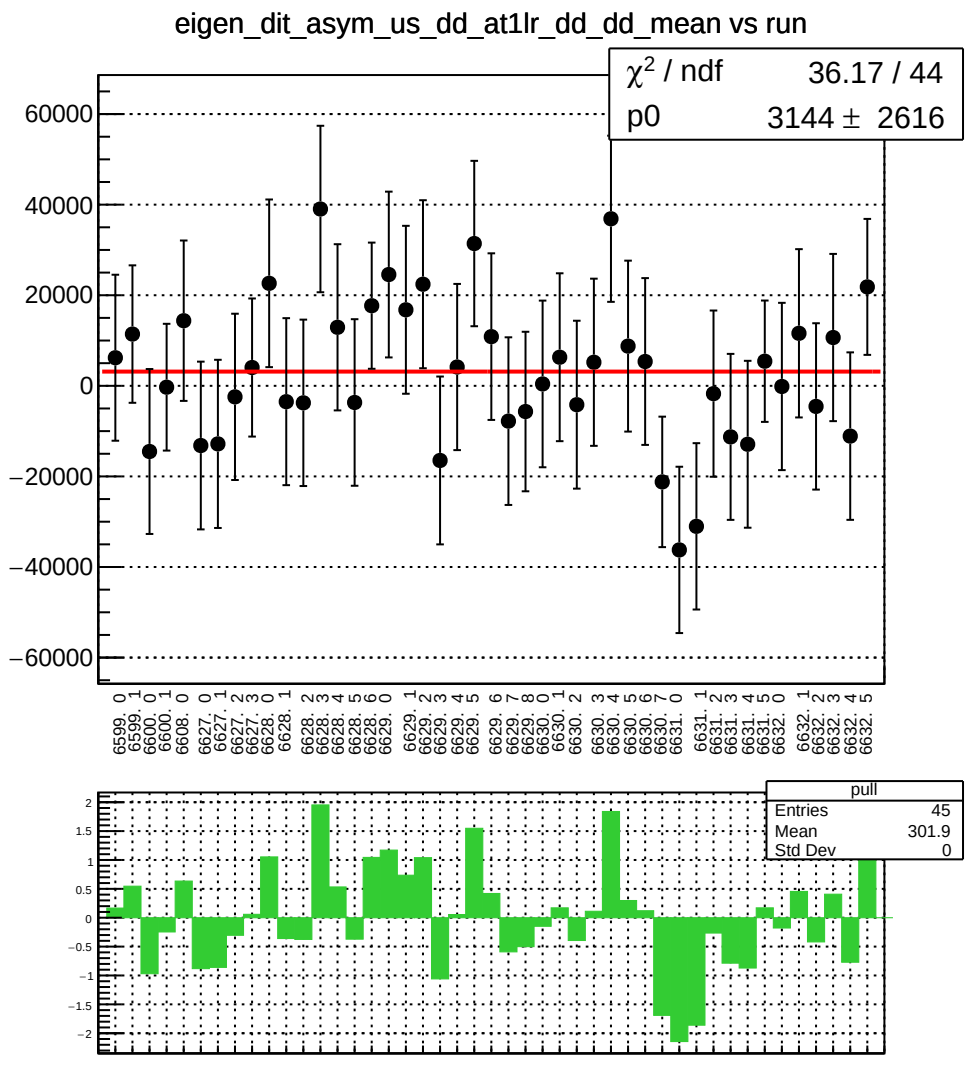
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 36.17 / 44
p0 3144 ± 2616
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 2
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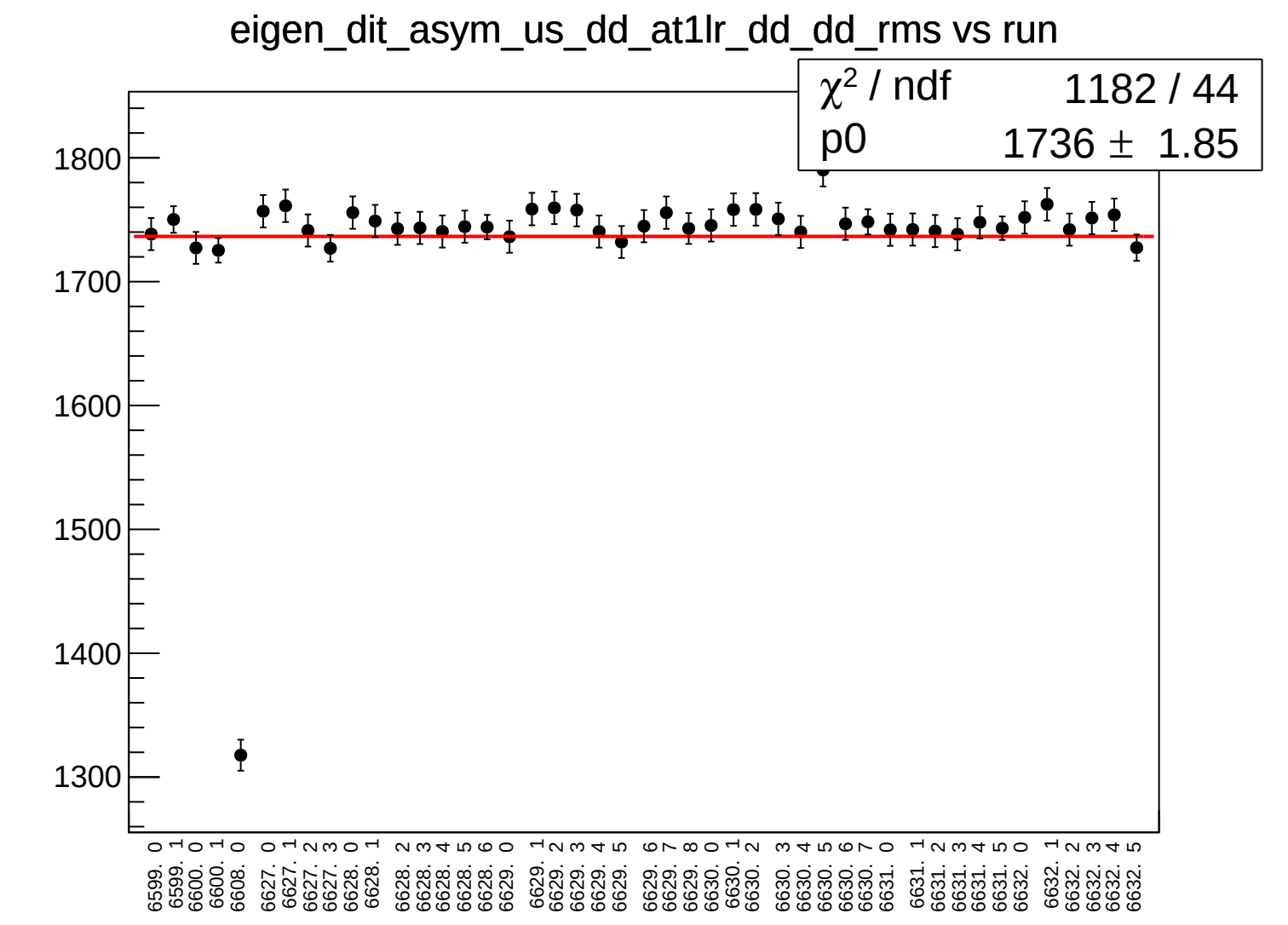
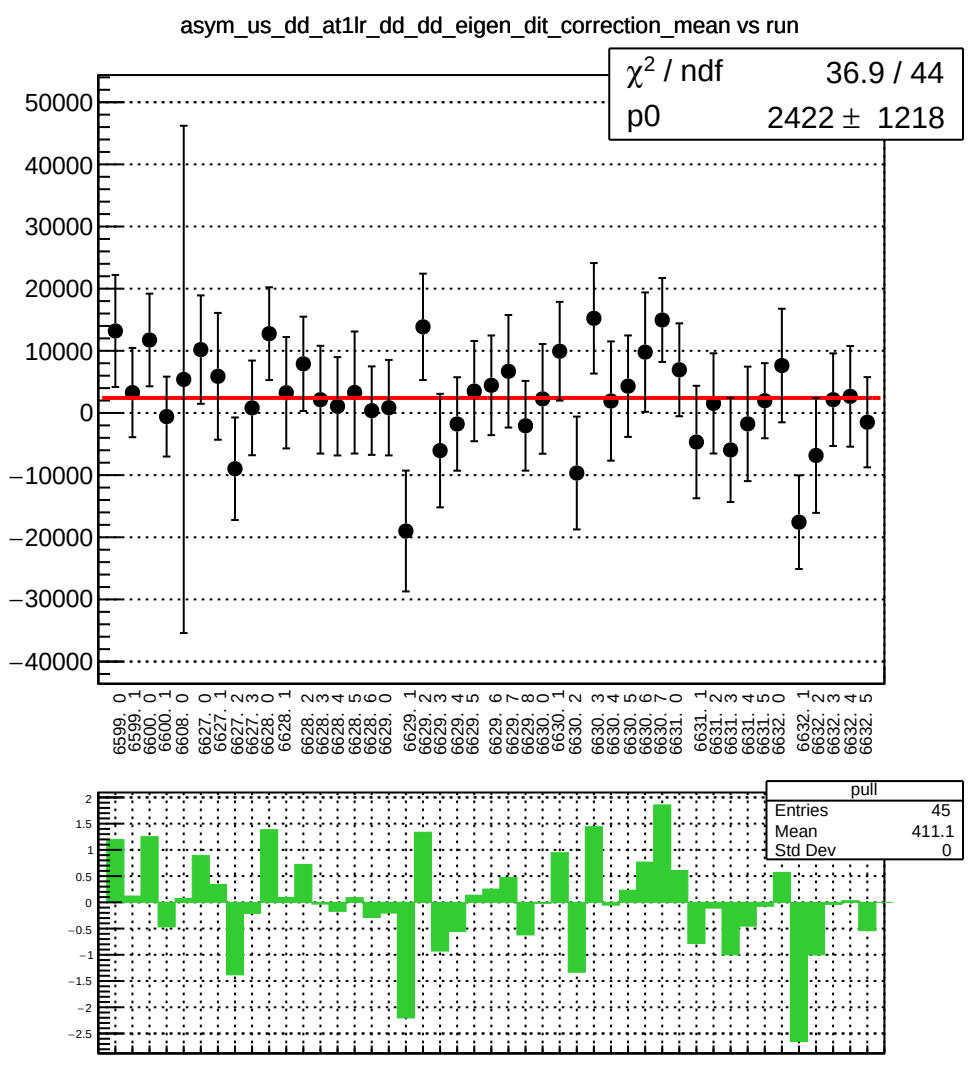
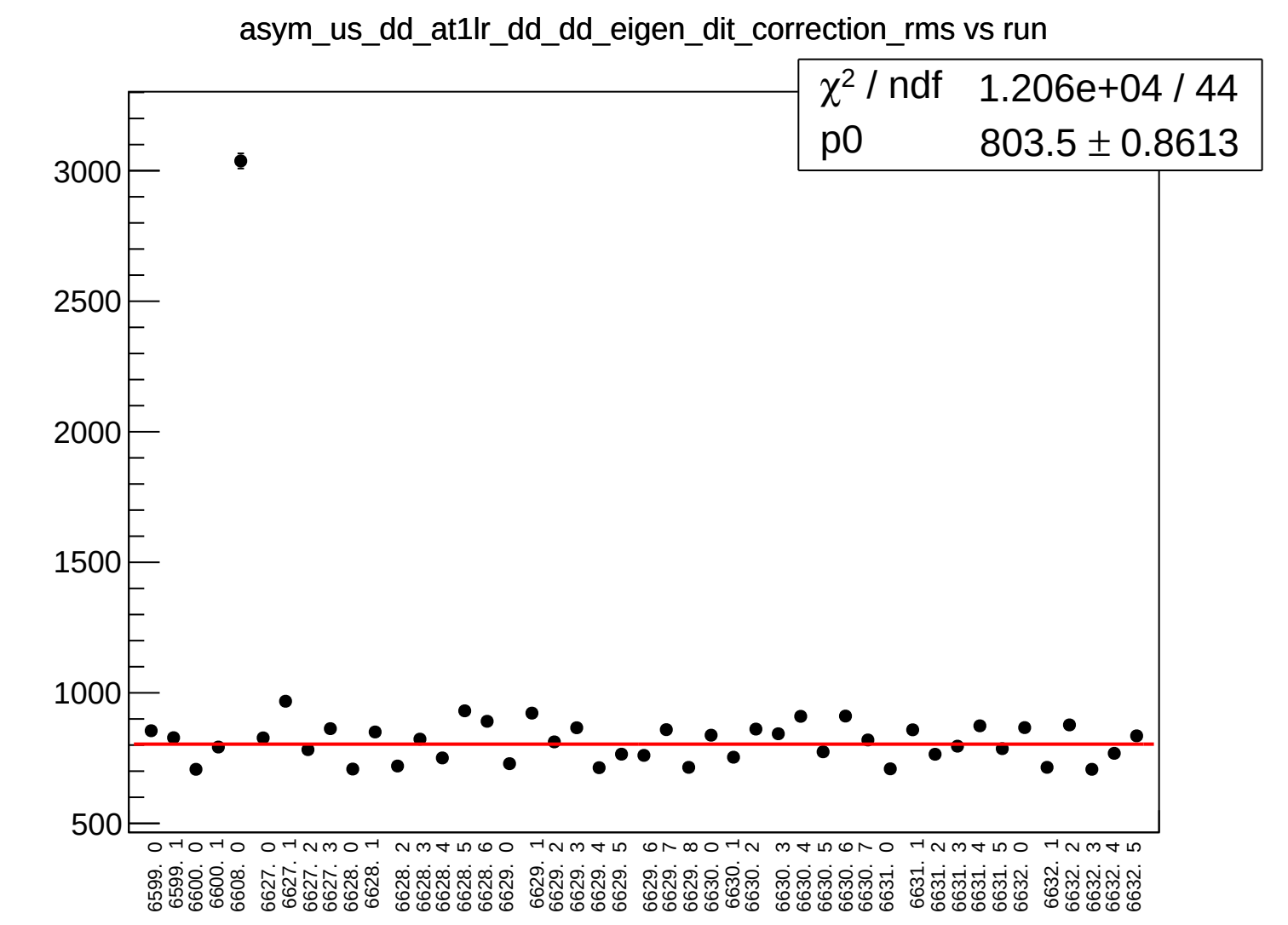
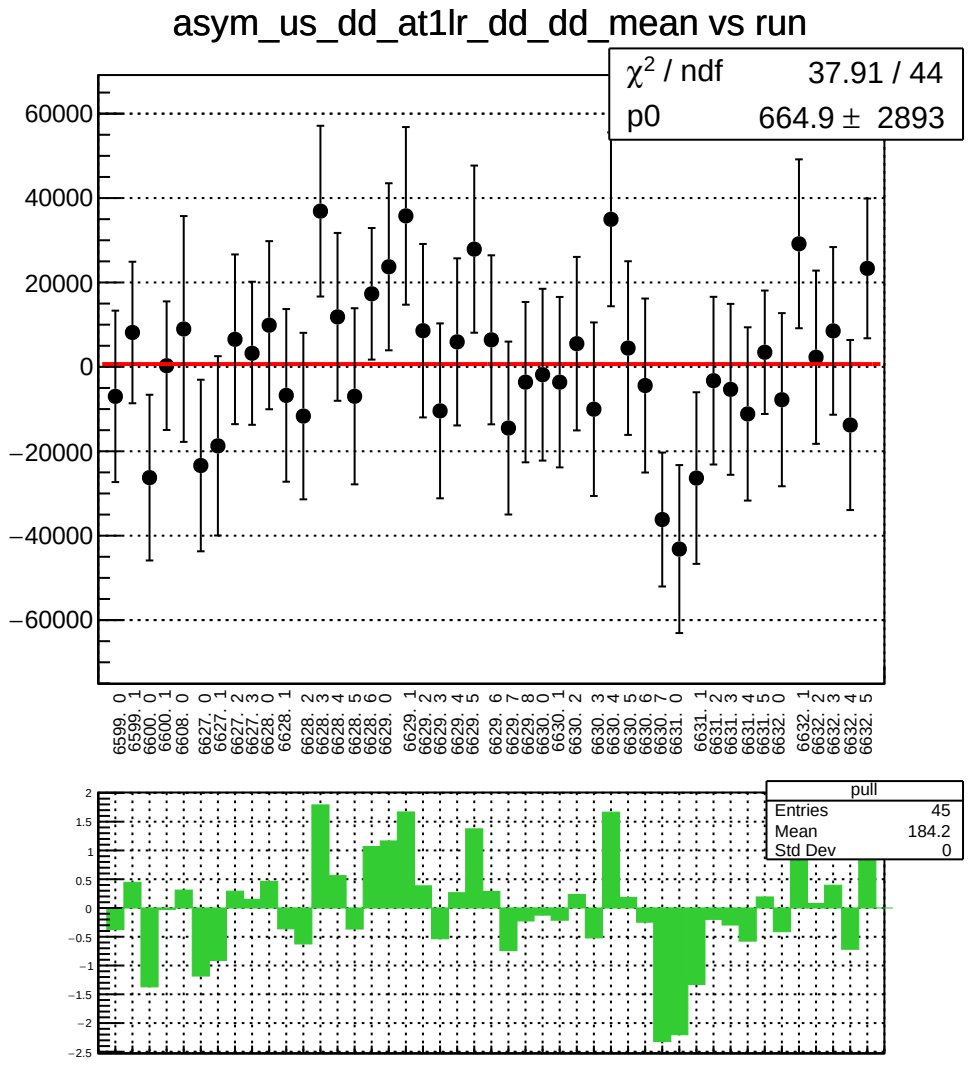
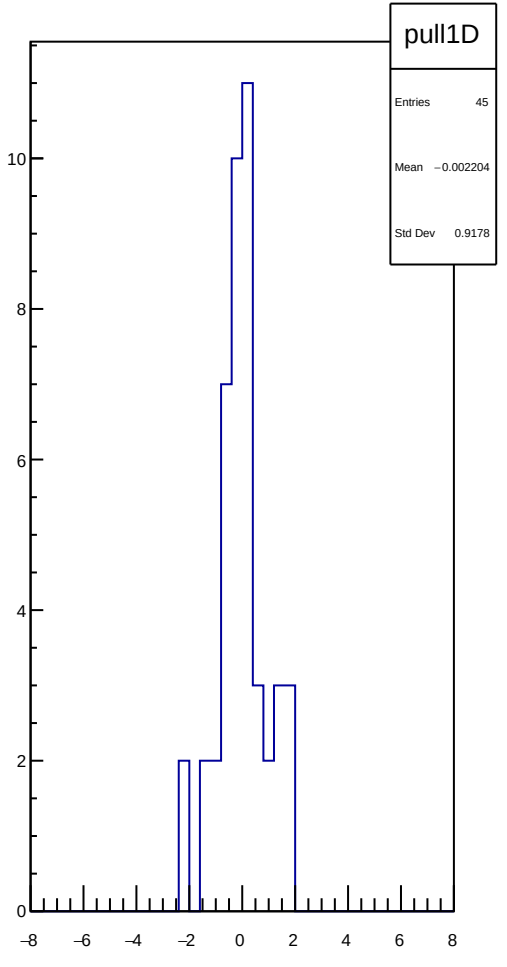
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 301.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.005934
Std Dev 0.8965
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

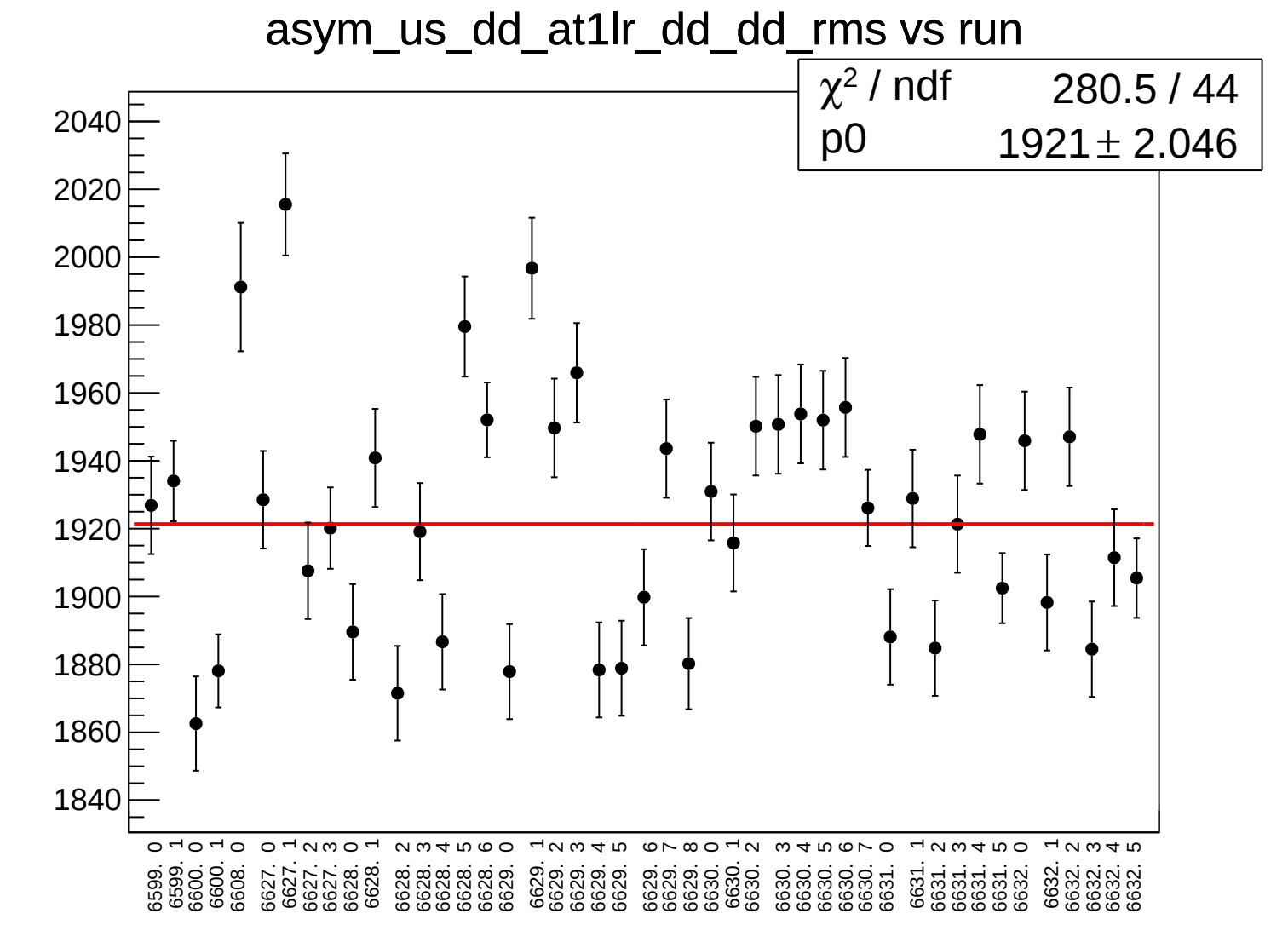

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 1182 / 44
p0 1736 ± 1.85
1800
1700
1600
1500
1400
1300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

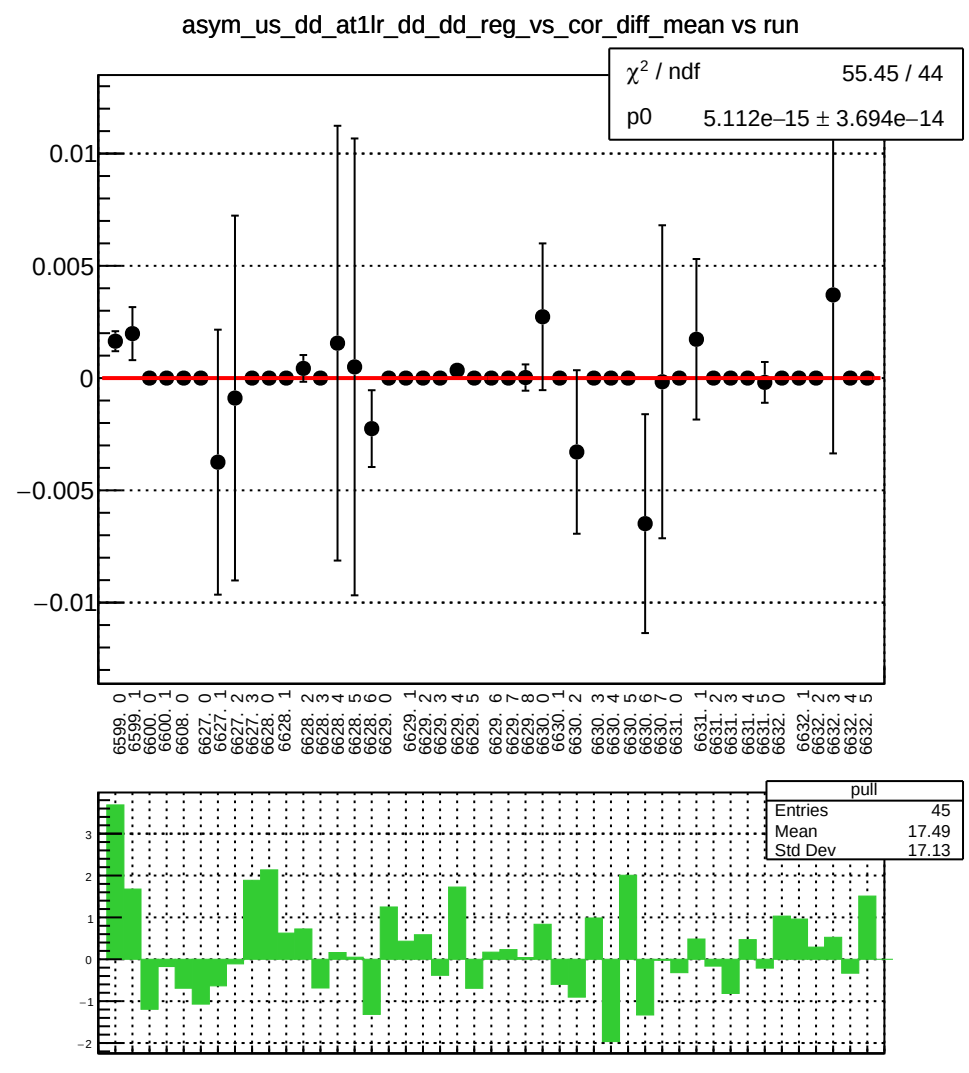

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 36.9 / 44
p0 2422 ± 1218
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 411.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.006845
Std Dev 0.9056
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

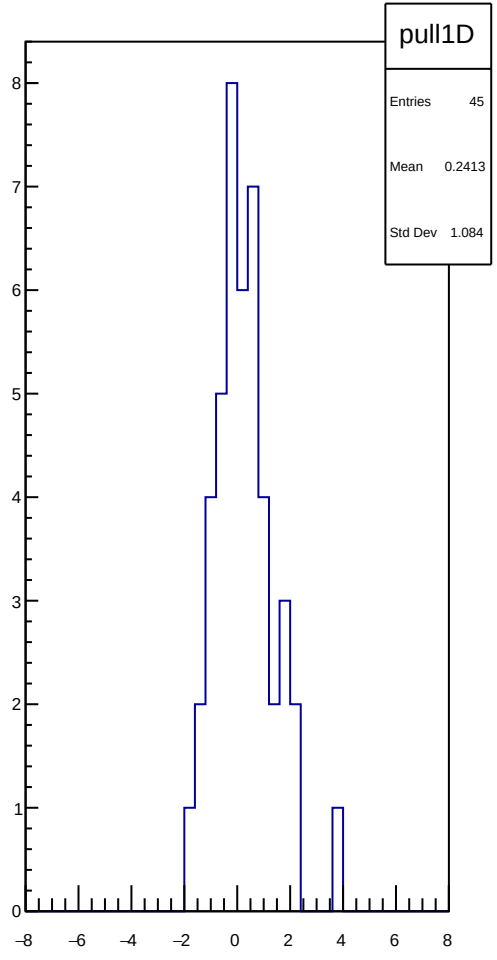

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.206e+04 / 44
p0 803.5 ± 0.8613
3000
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

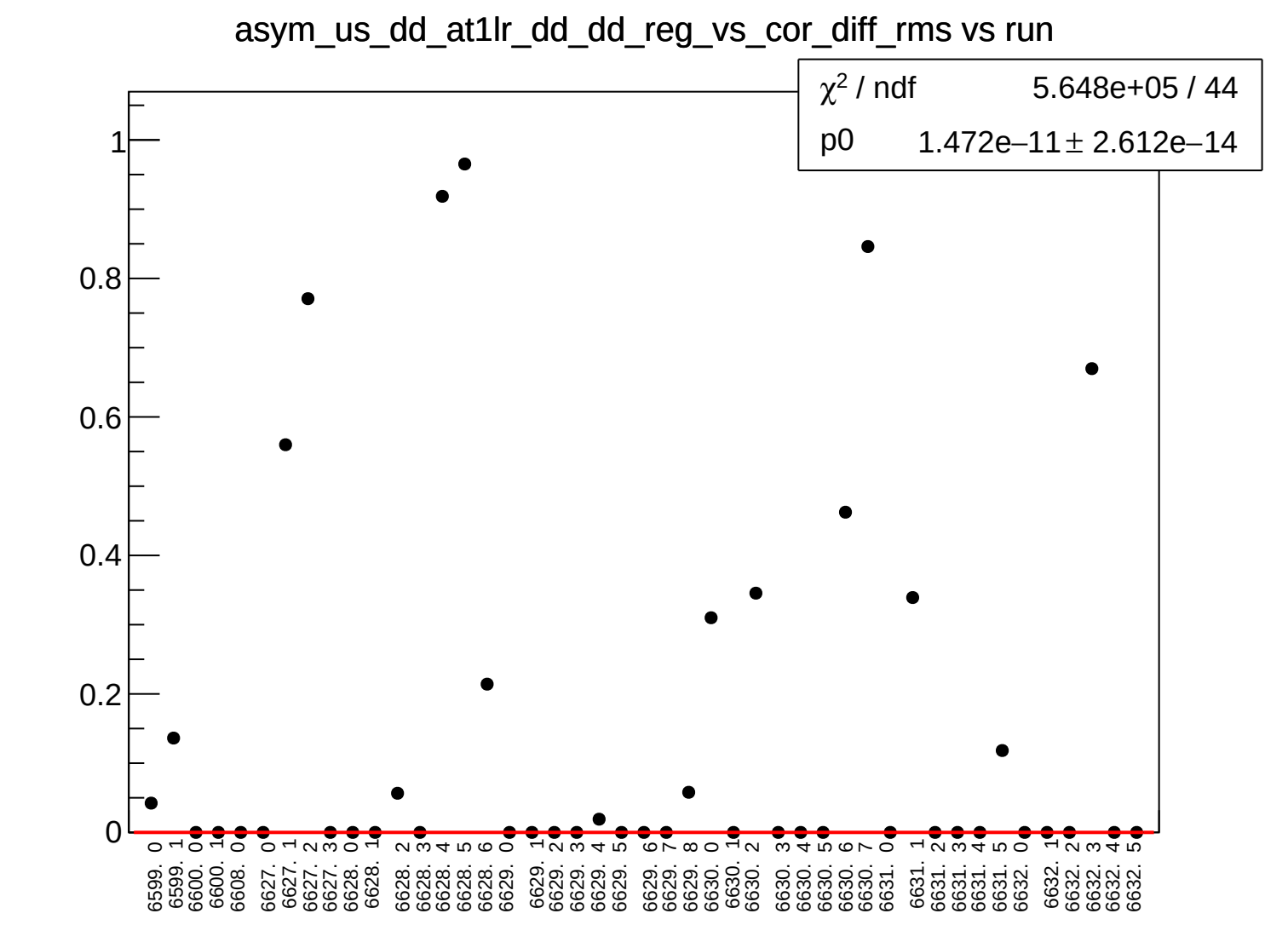

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 37.91 / 44
p0 664.9 ± 2893
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 184.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

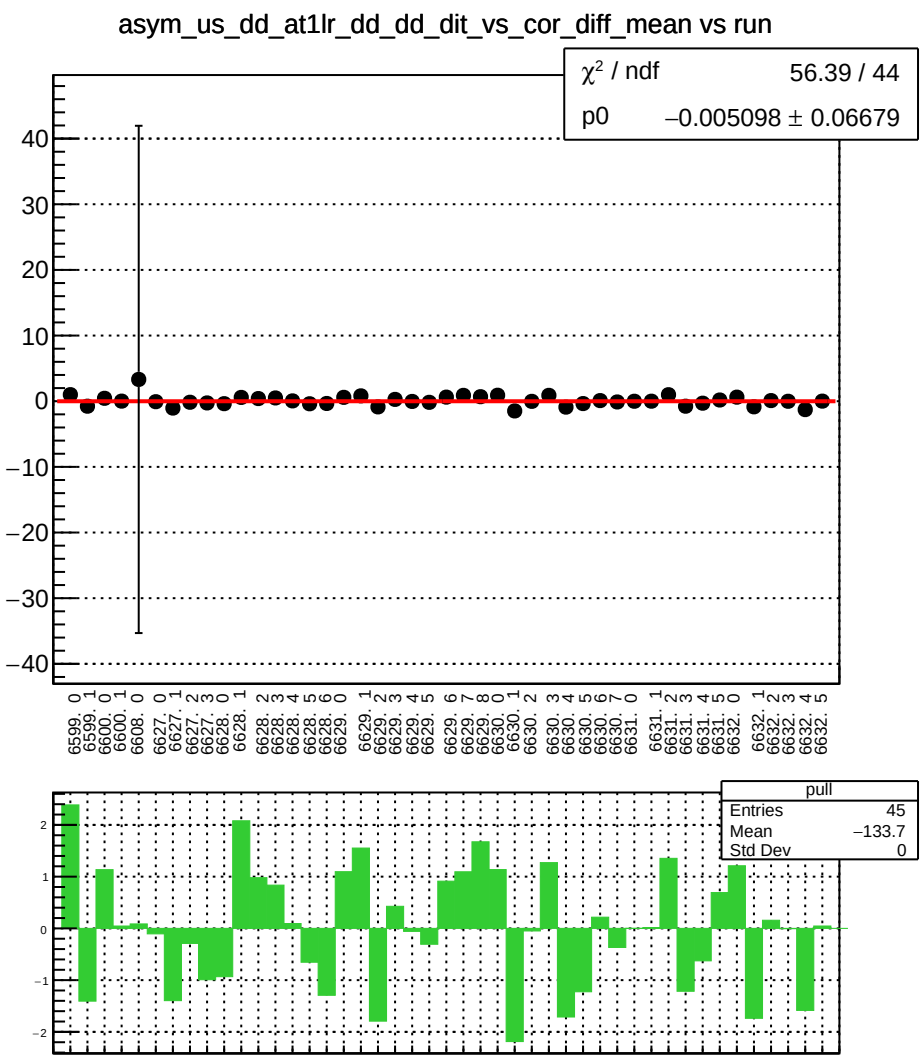

pull1D
Entries 45
Mean −0.002204
Std Dev 0.9178
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

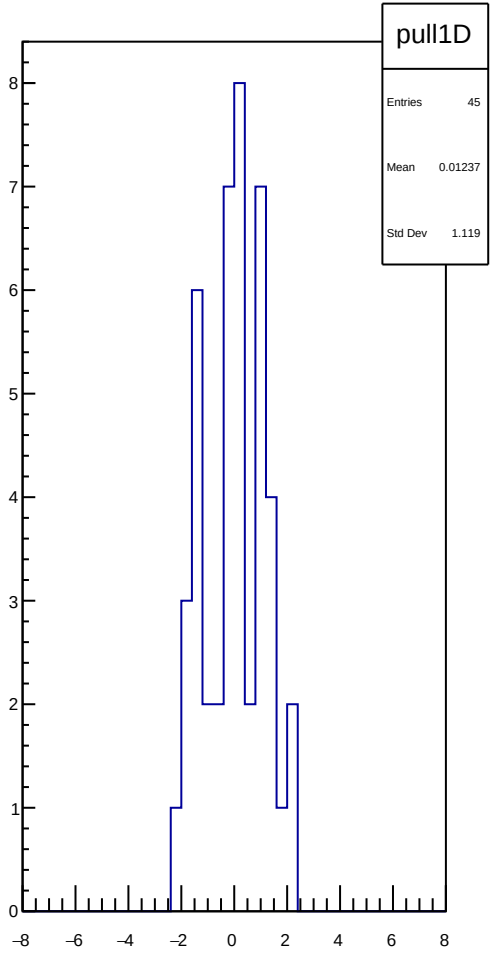

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 280.5 / 44
p0 1921 ± 2.046
2040
2020
2000
1980
1960
1940
1920
1900
1880
1860
1840
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

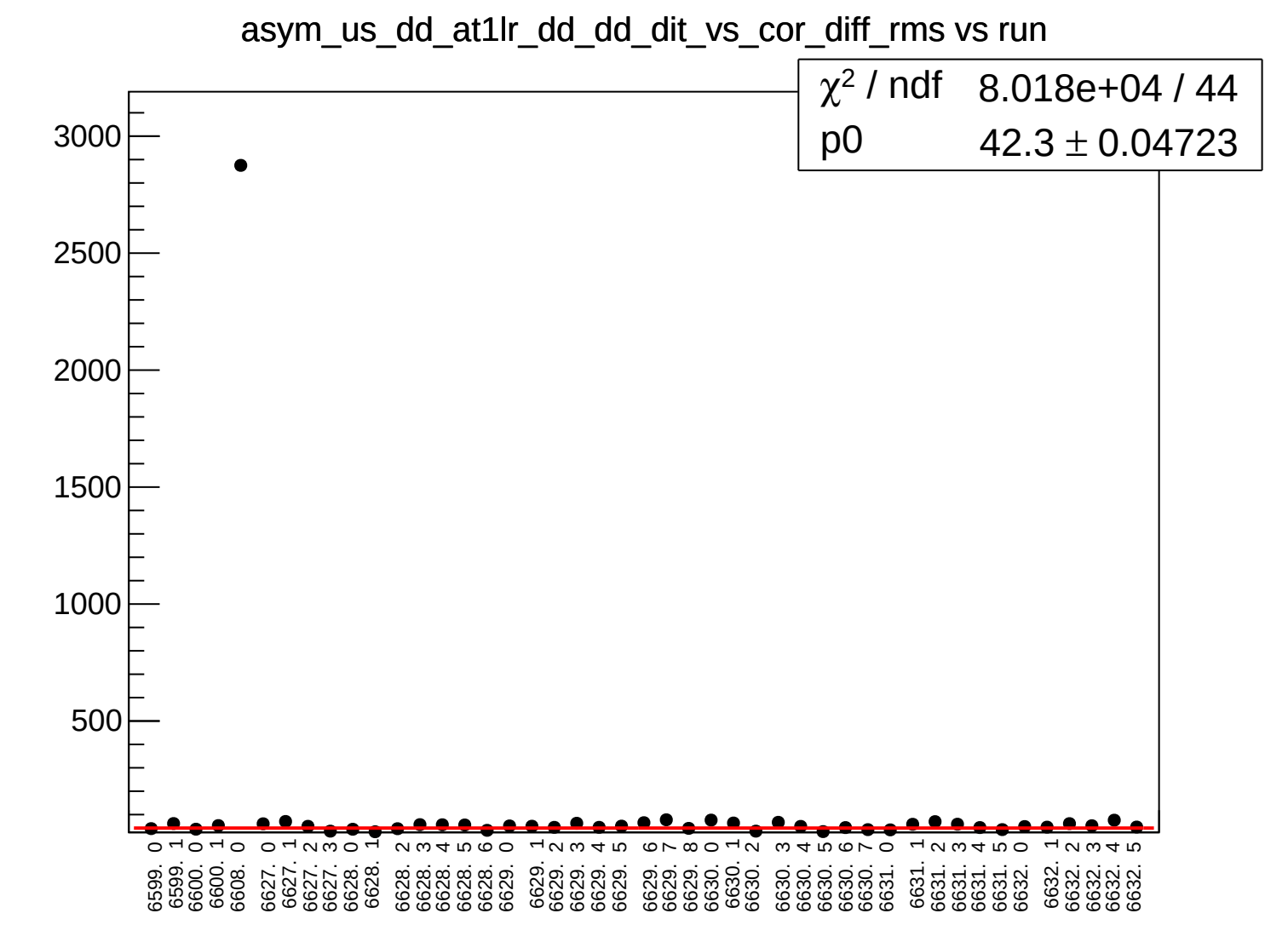

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 55.45 / 44
p0 5.112e−15 ± 3.694e−14
0.01
0.005
0
−0.005
−0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 17.49
Std Dev 17.13
3
2
1
0
−1
−2

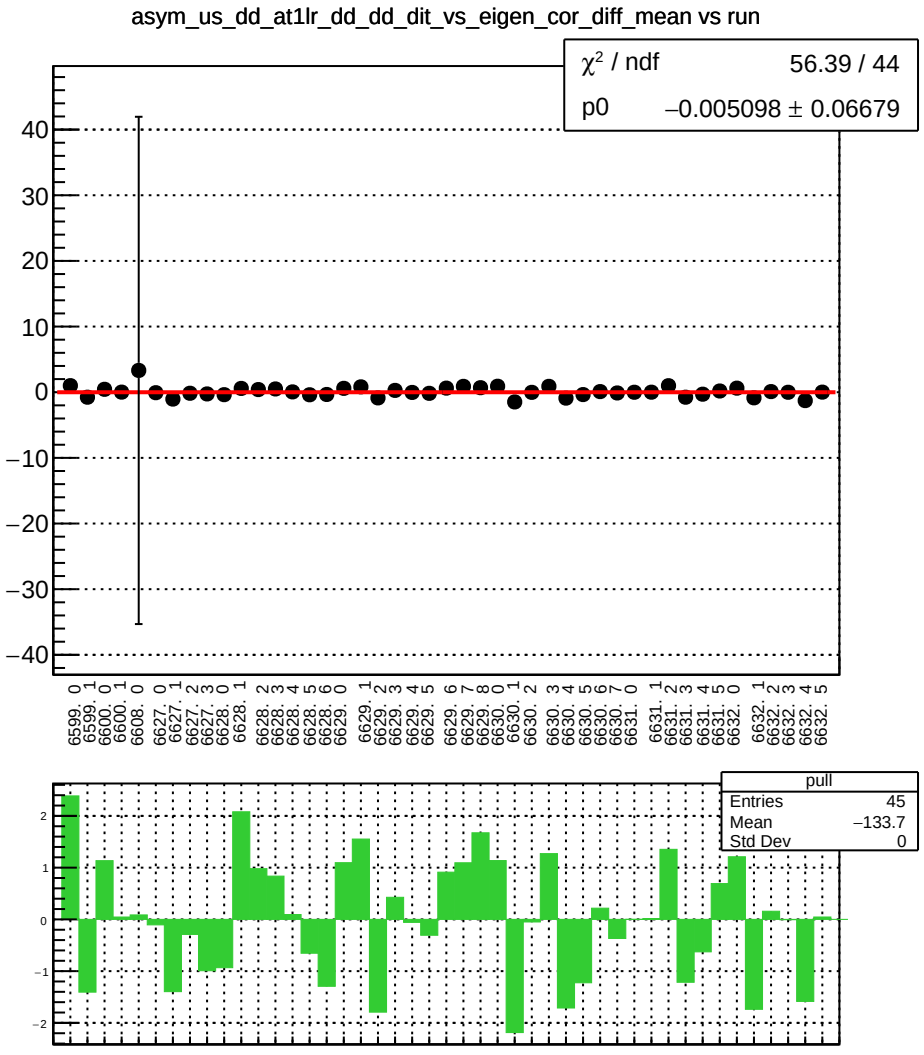

pull1D
Entries 45
Mean 0.2413
Std Dev 1.084
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

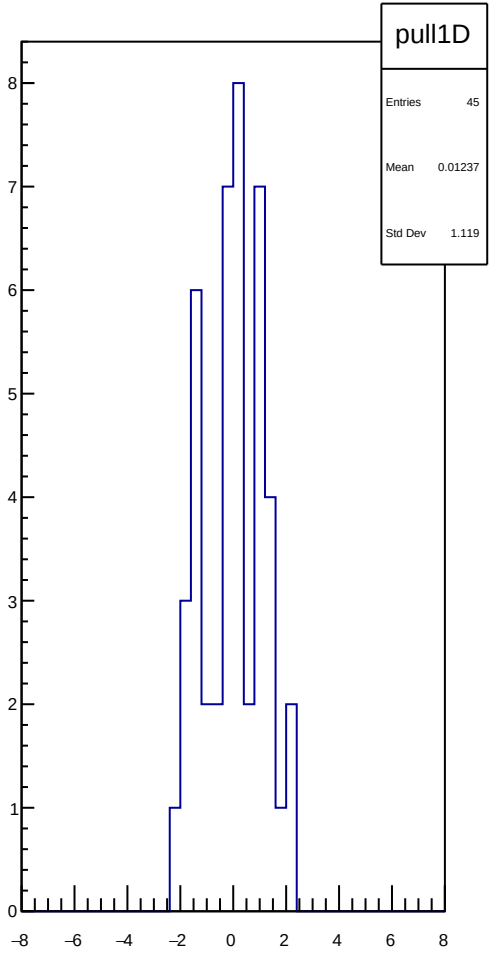

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.648e+05 / 44
p0 1.472e−11 ± 2.612e−14
1
0.8
0.6
0.4
0.2
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

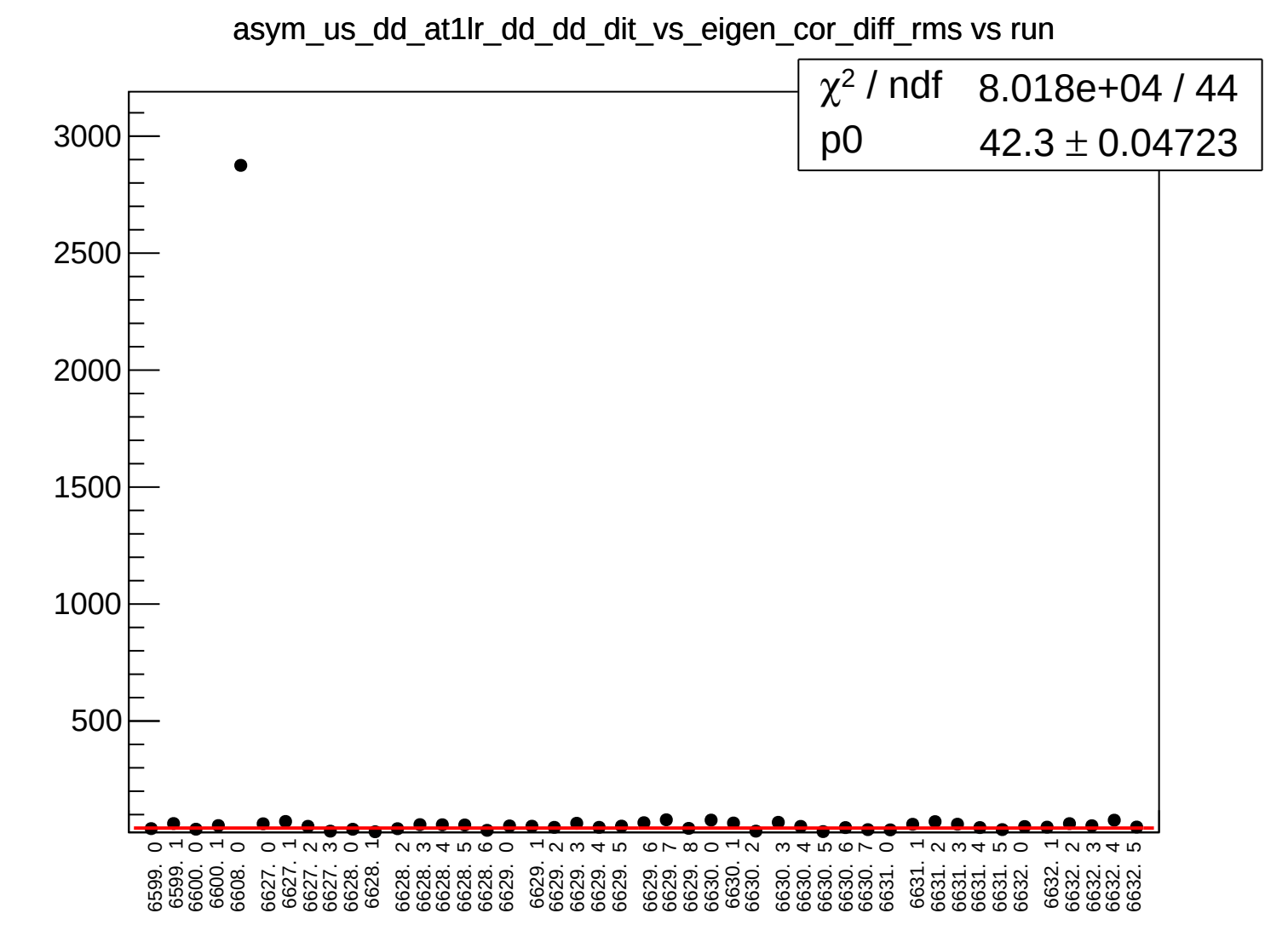

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 56.39 / 44
p0 −0.005098 ± 0.06679
40
30
20
10
0
−10
−20
−30
−40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −133.7
Std Dev 0
2
1
0
−1
−2

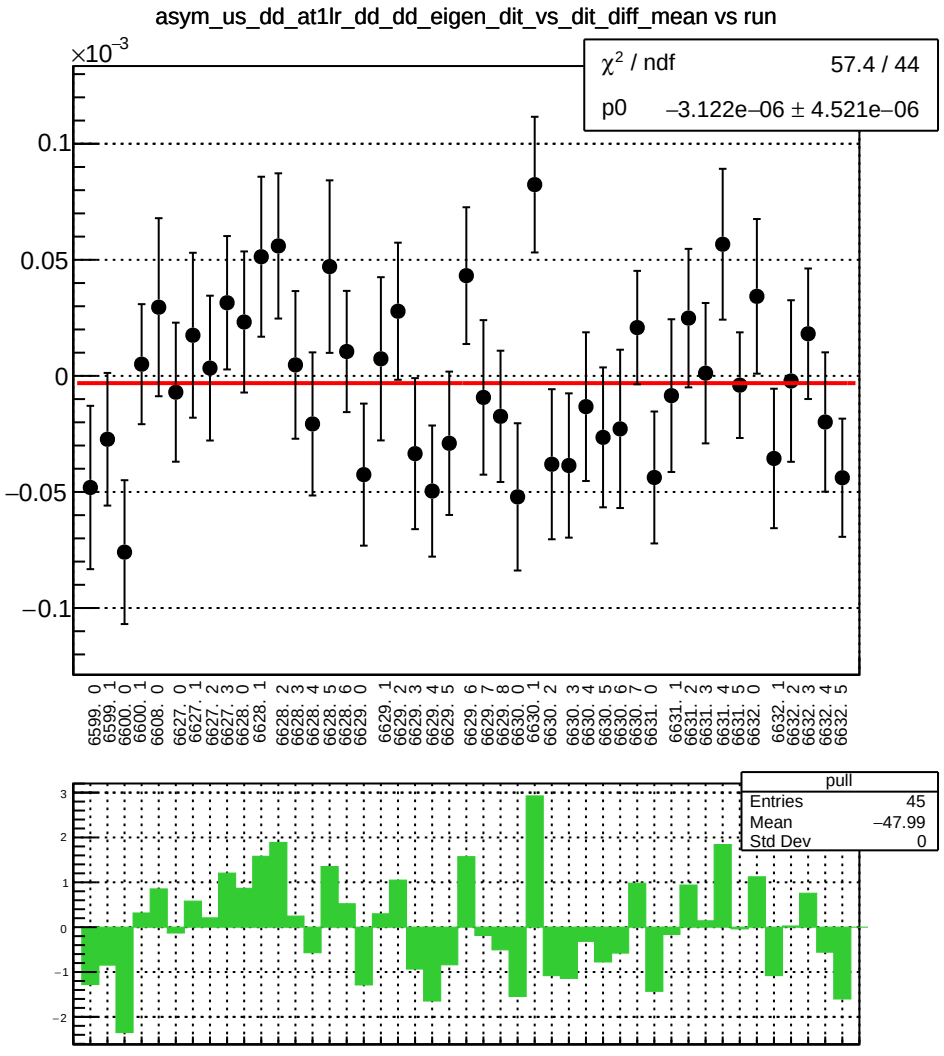

pull1D
Entries 45
Mean 0.01237
Std Dev 1.119
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

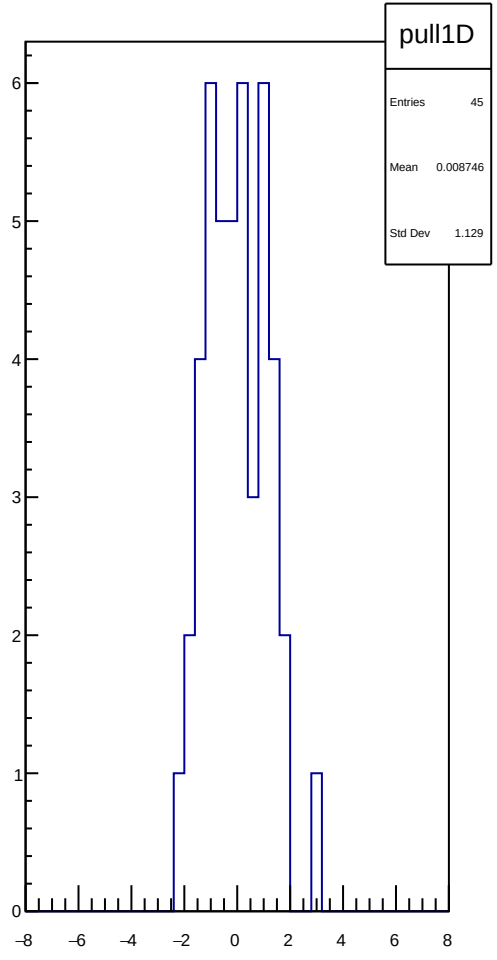

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.018e+04 / 44
p0 42.3 ± 0.04723
3000
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

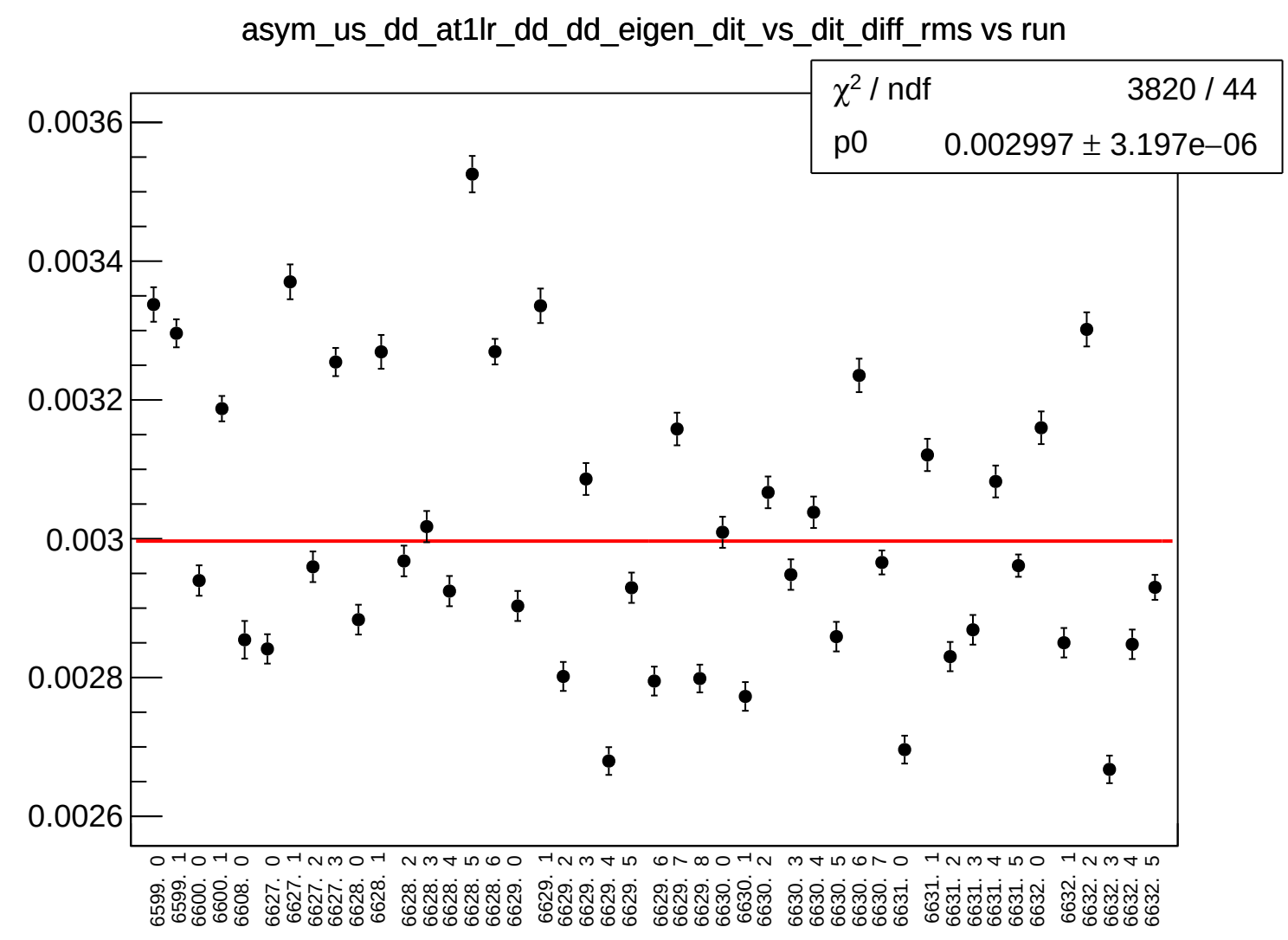

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 56.39 / 44
p0 −0.005098 ± 0.06679
pull
Entries 45
Mean −133.7
Std Dev 0

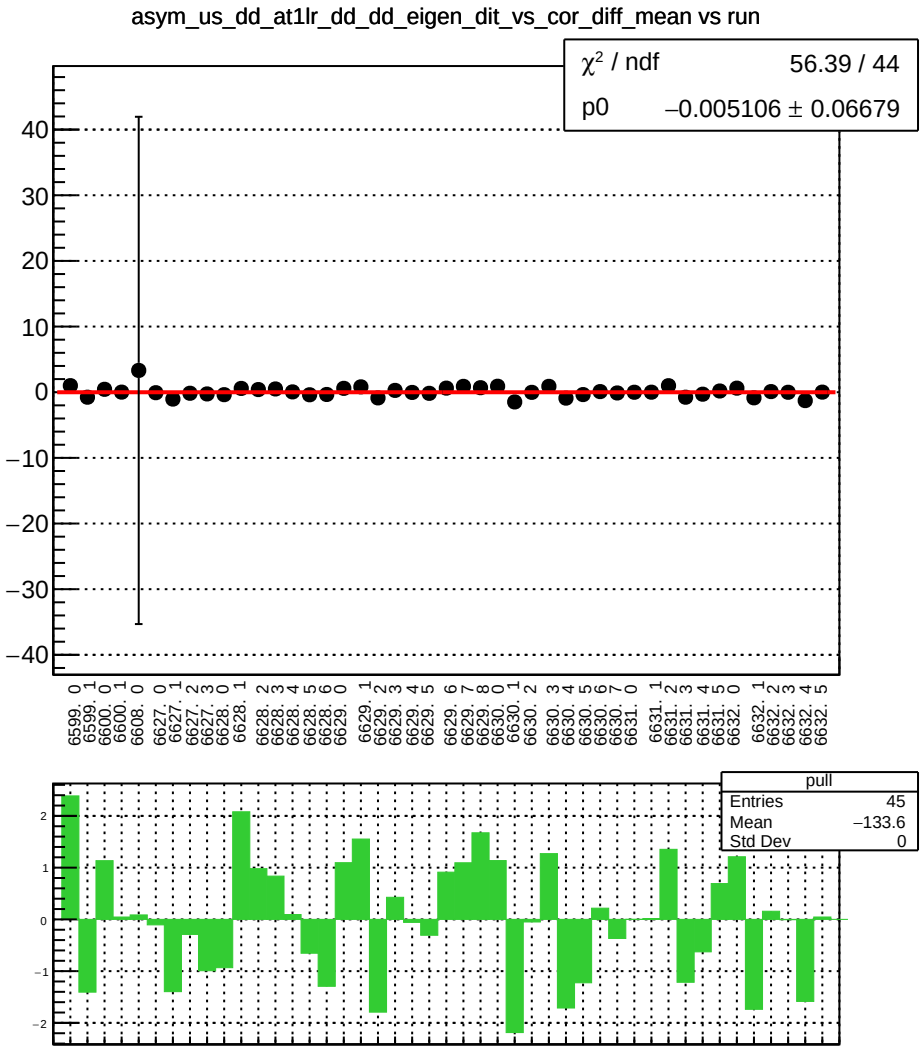

pull1D
Entries 45
Mean 0.01237
Std Dev 1.119

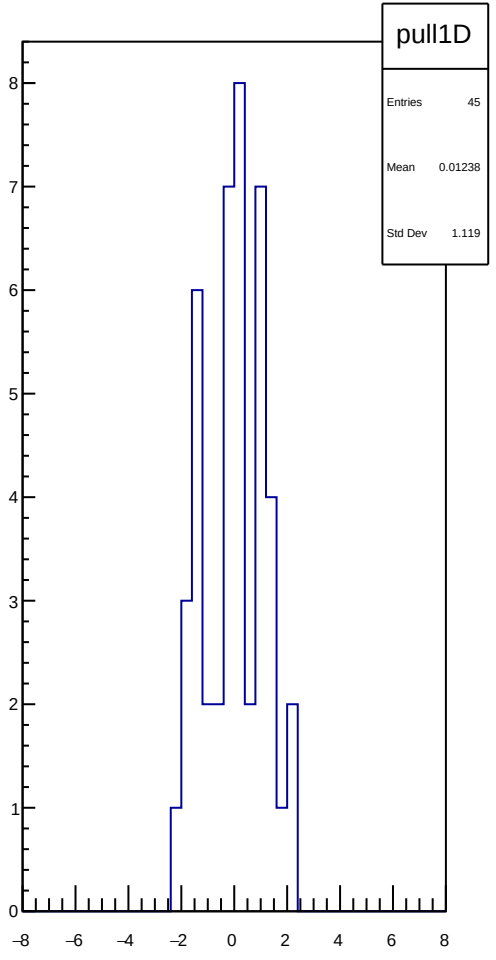

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.018e+04 / 44
p0 42.3 ± 0.04723
3000
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

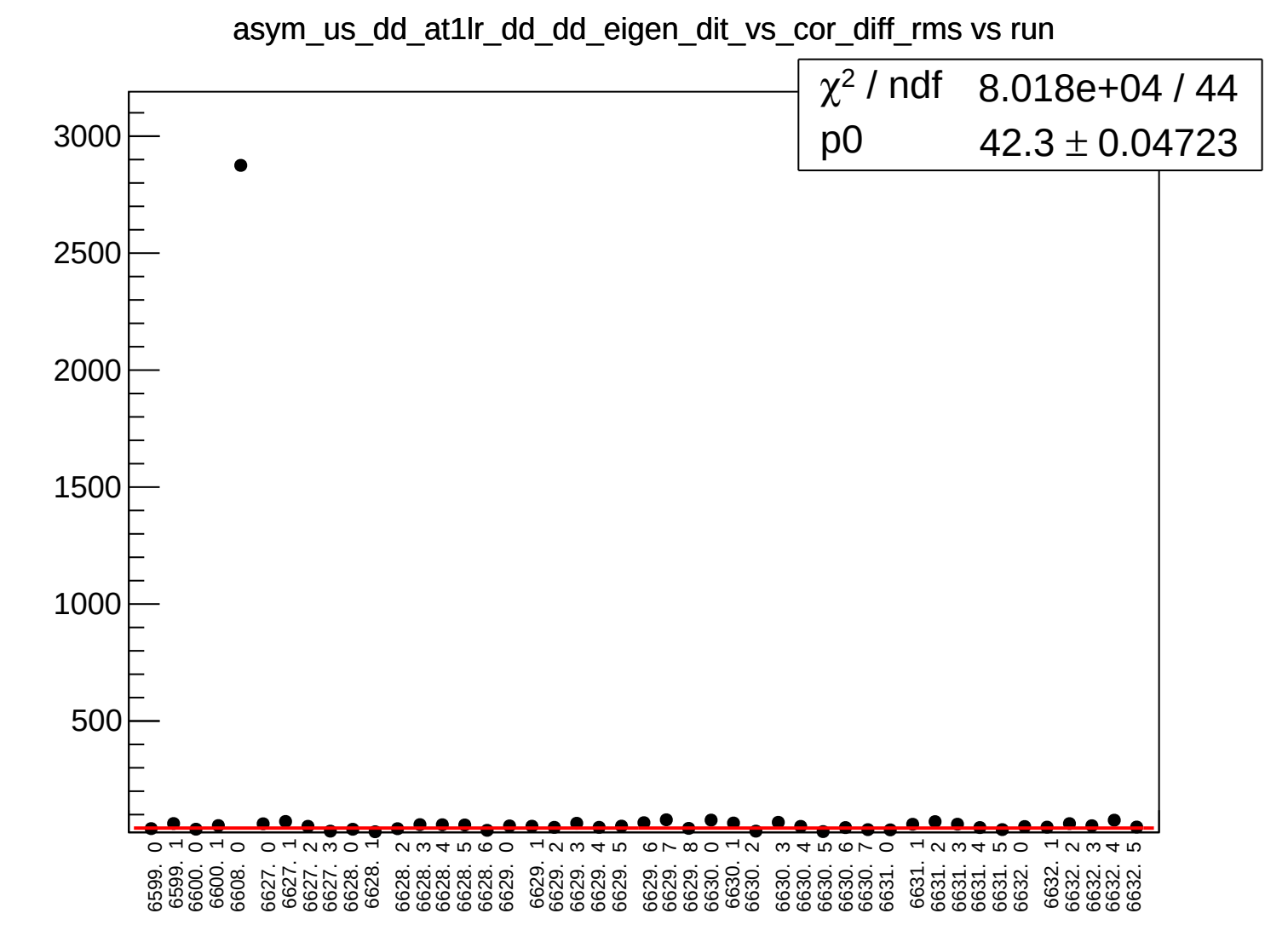

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 57.4 / 44
p0 −3.122e−06 ± 4.521e−06
0.1
0.05
0
−0.05
−0.1
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −47.99
Std Dev 0
3
2
1
0
−1
−2

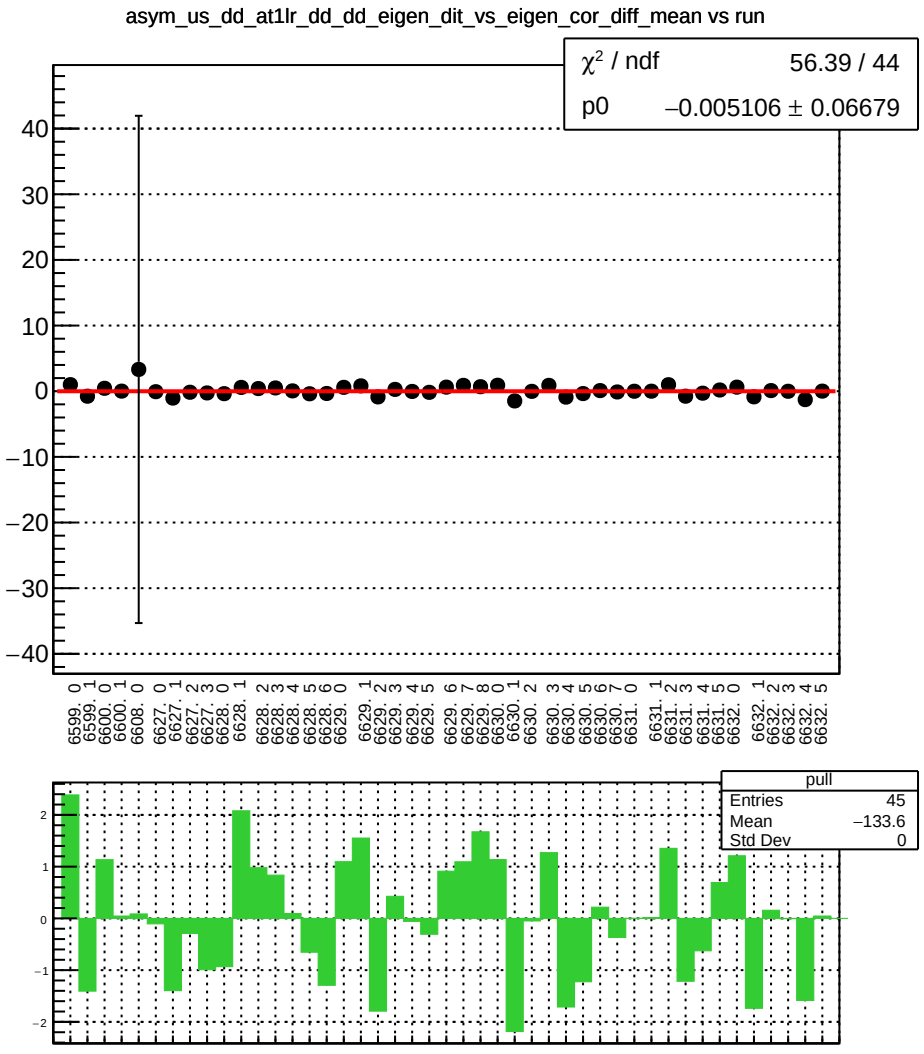

pull1D
Entries 45
Mean 0.008746
Std Dev 1.129
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

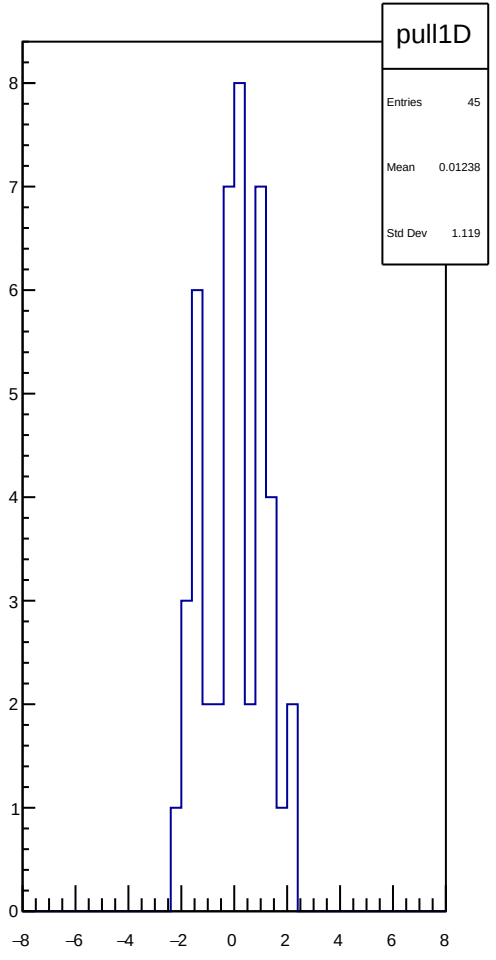

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3820 / 44
p0 0.002997 ± 3.197e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

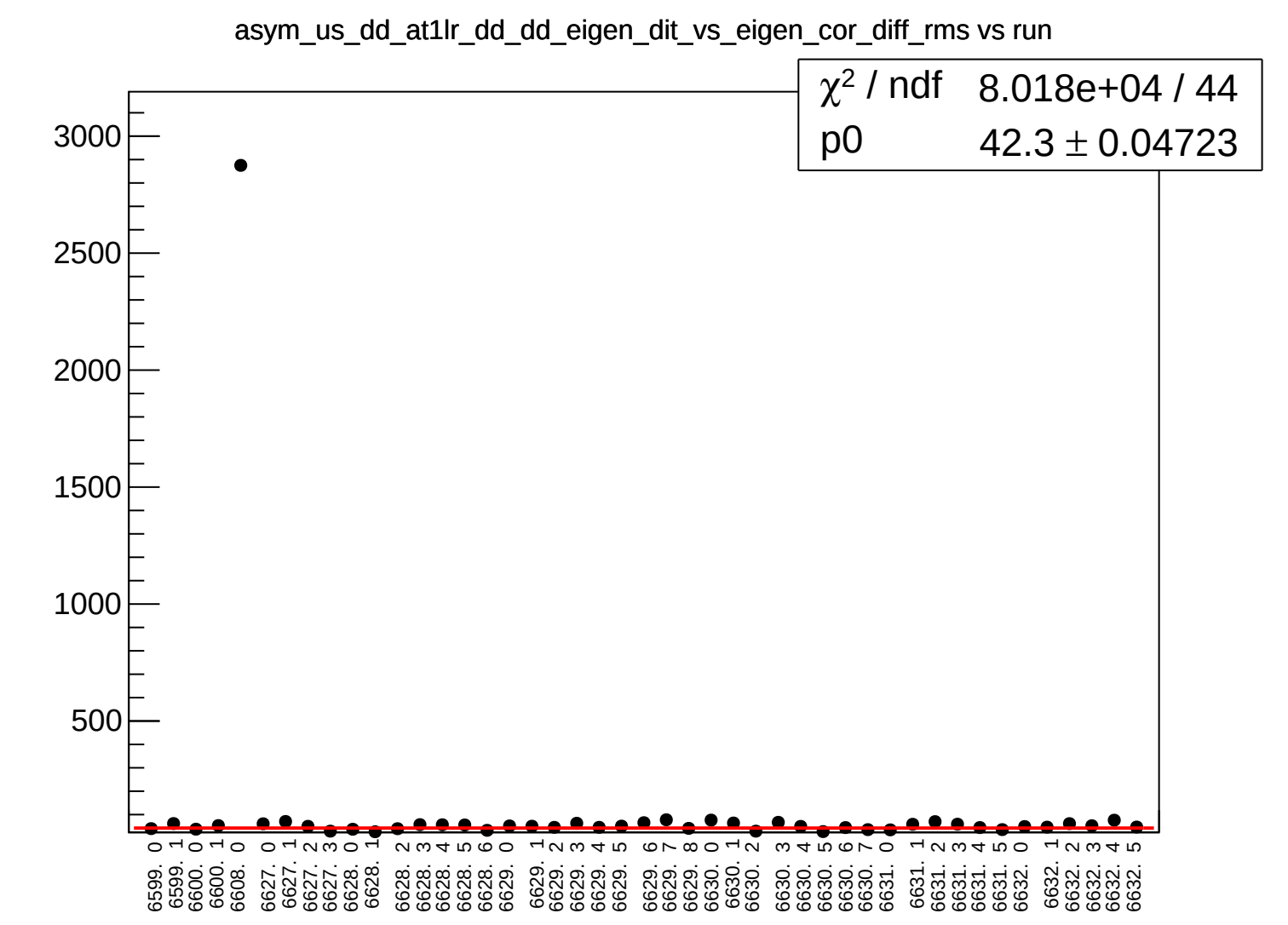

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 56.39 / 44
p0 −0.005106 ± 0.06679
pull
Entries 45
Mean −133.6
Std Dev 0

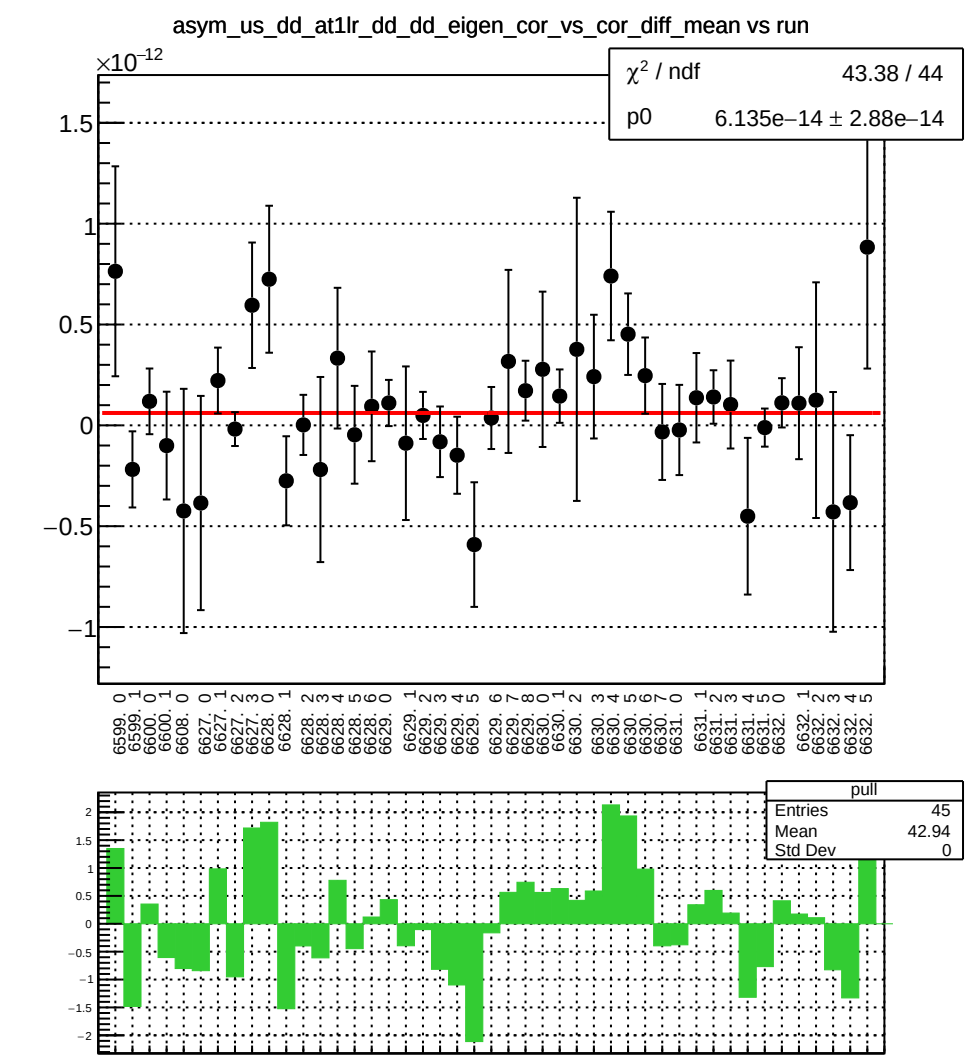

pull1D
Entries 45
Mean 0.01238
Std Dev 1.119

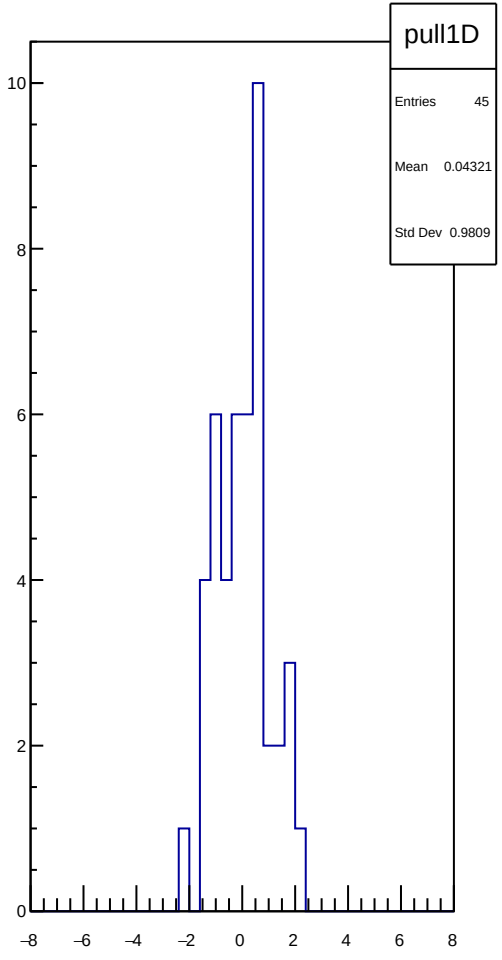

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.018e+04 / 44
p0 42.3 ± 0.04723
3000
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

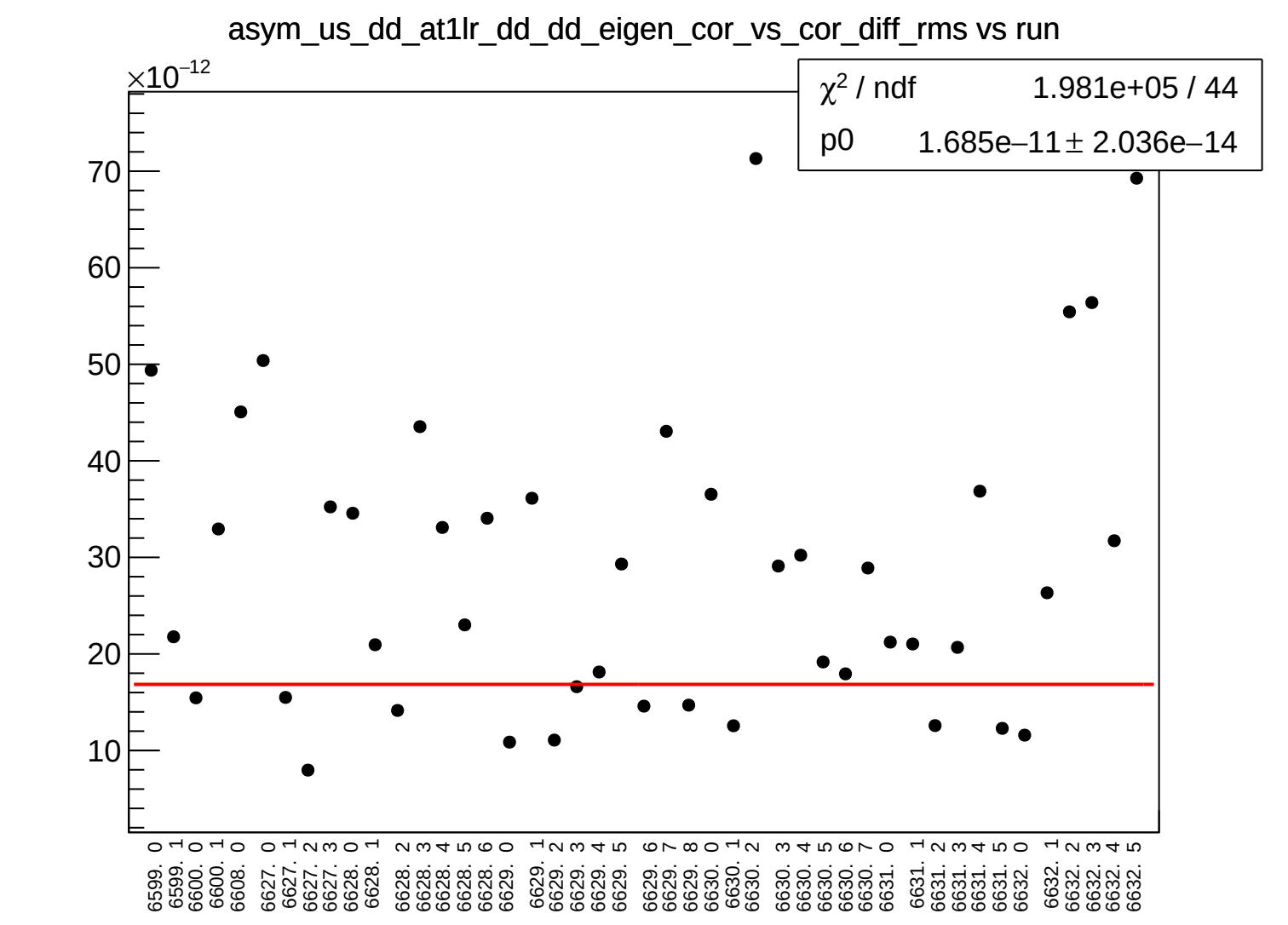

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 56.39 / 44
p0 −0.005106 ± 0.06679
pull
Entries 45
Mean −133.6
Std Dev 0

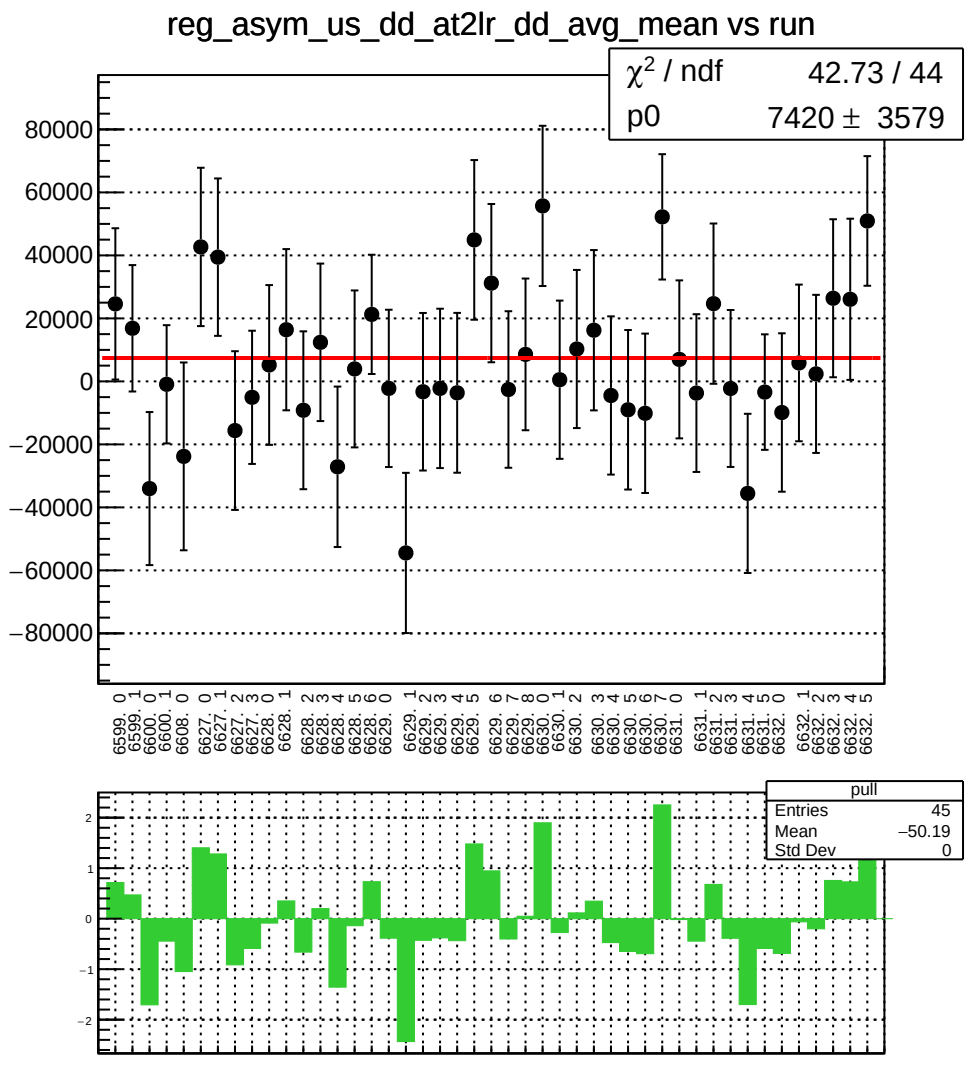

pull1D
Entries 45
Mean 0.01238
Std Dev 1.119

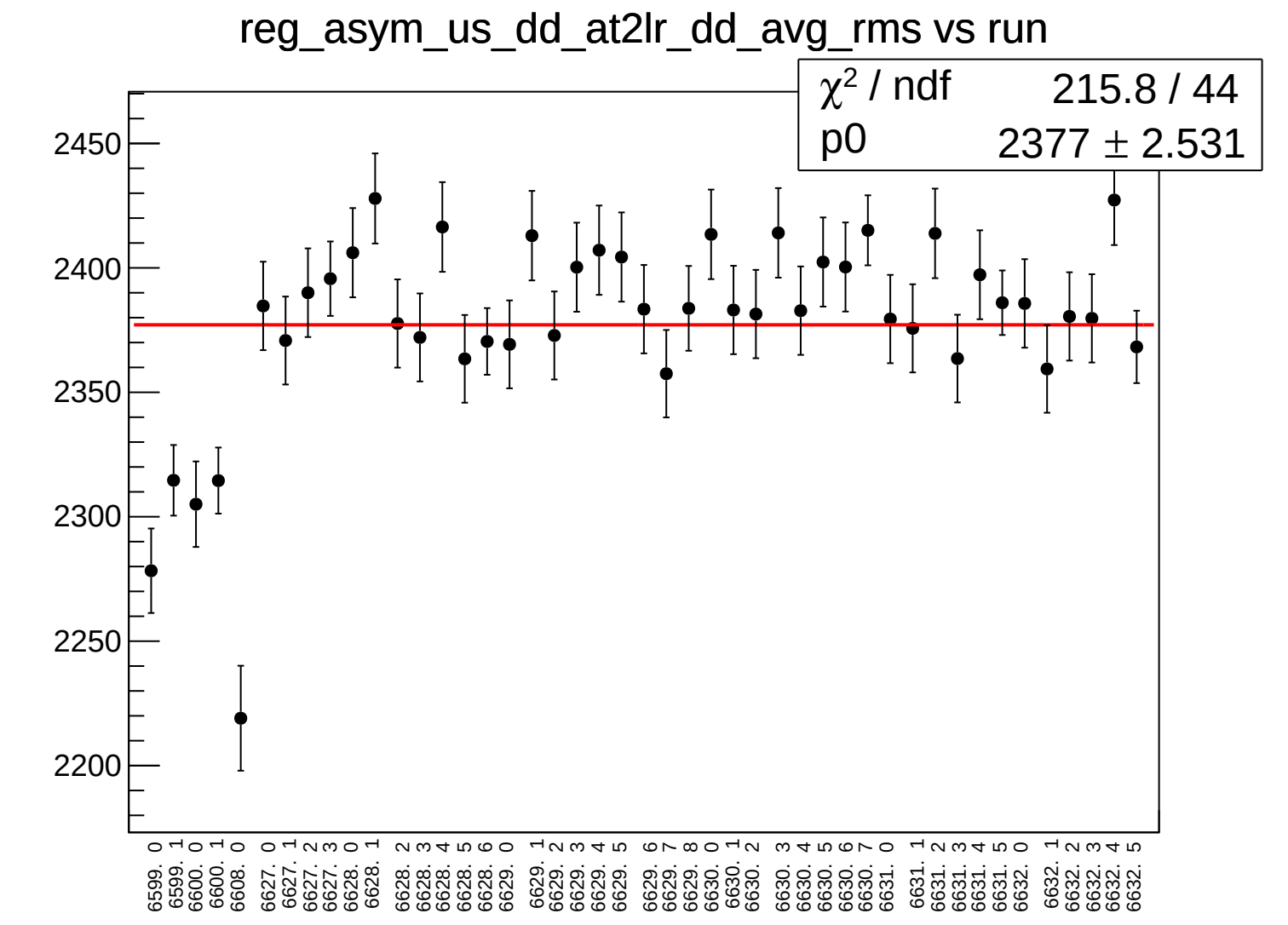

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.018e+04 / 44
p0 42.3 ± 0.04723
3000
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

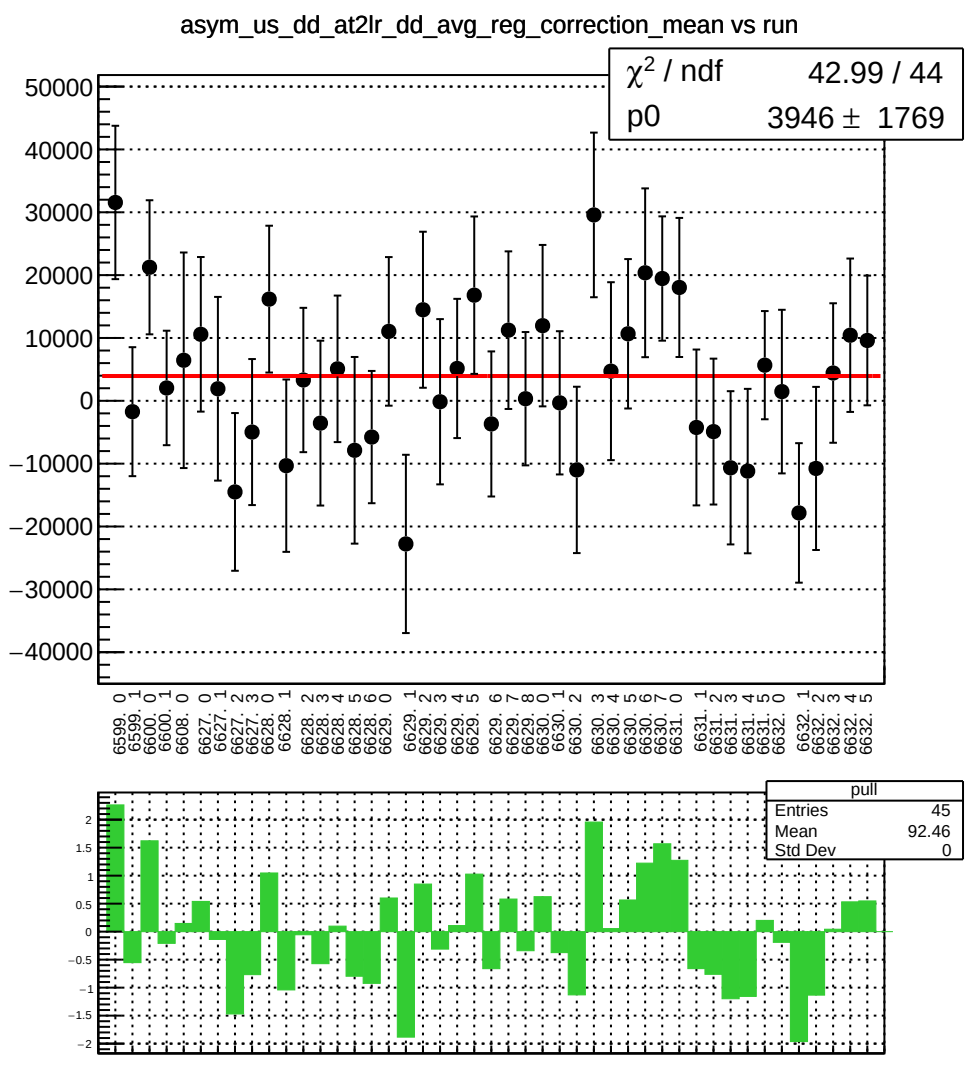

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 43.38 / 44
p0 6.135e−14 ± 2.88e−14
1.5
1
0.5
0
−0.5
−1
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 42.94
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

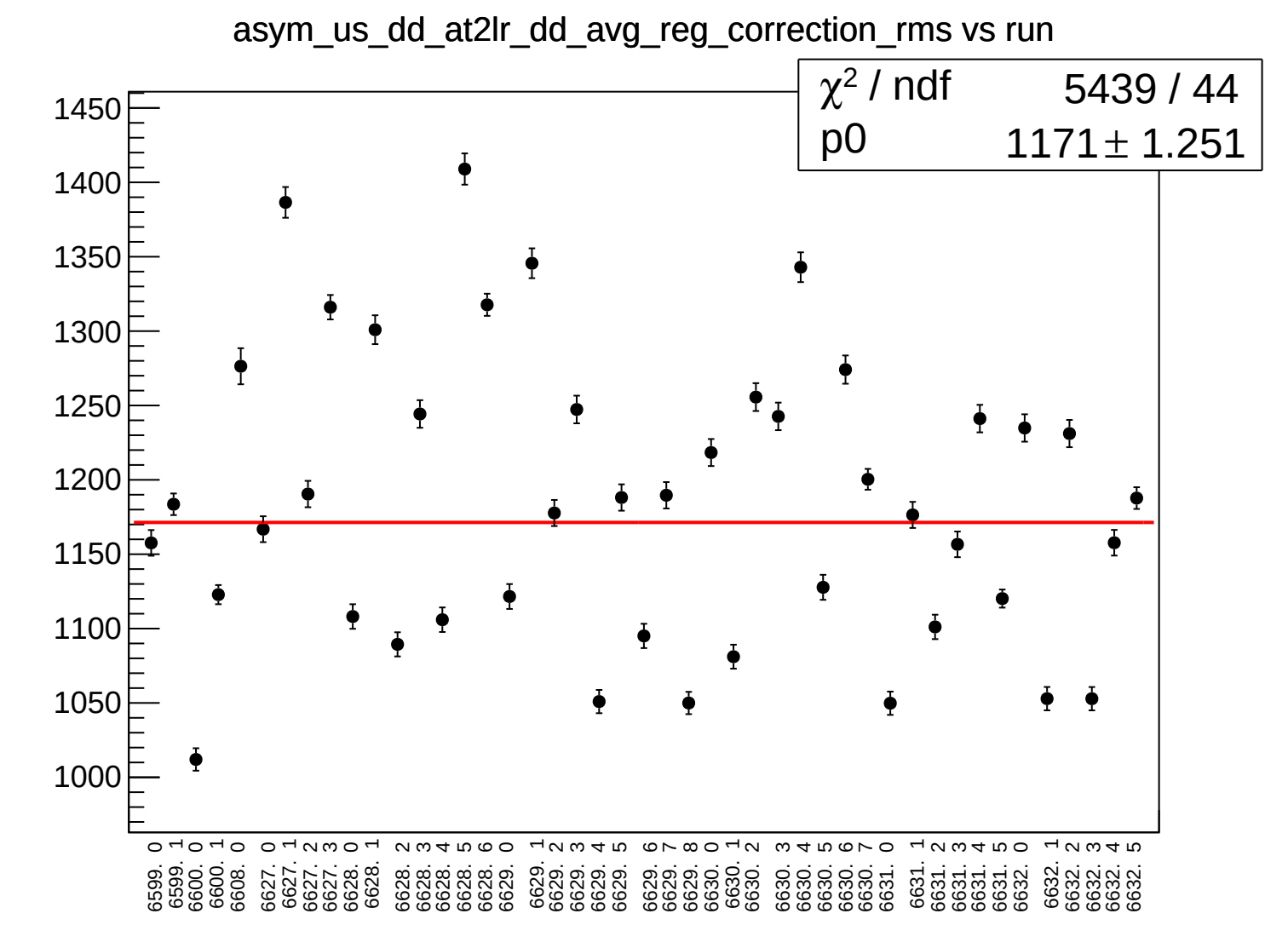

pull1D
Entries 45
Mean 0.04321
Std Dev 0.9809
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

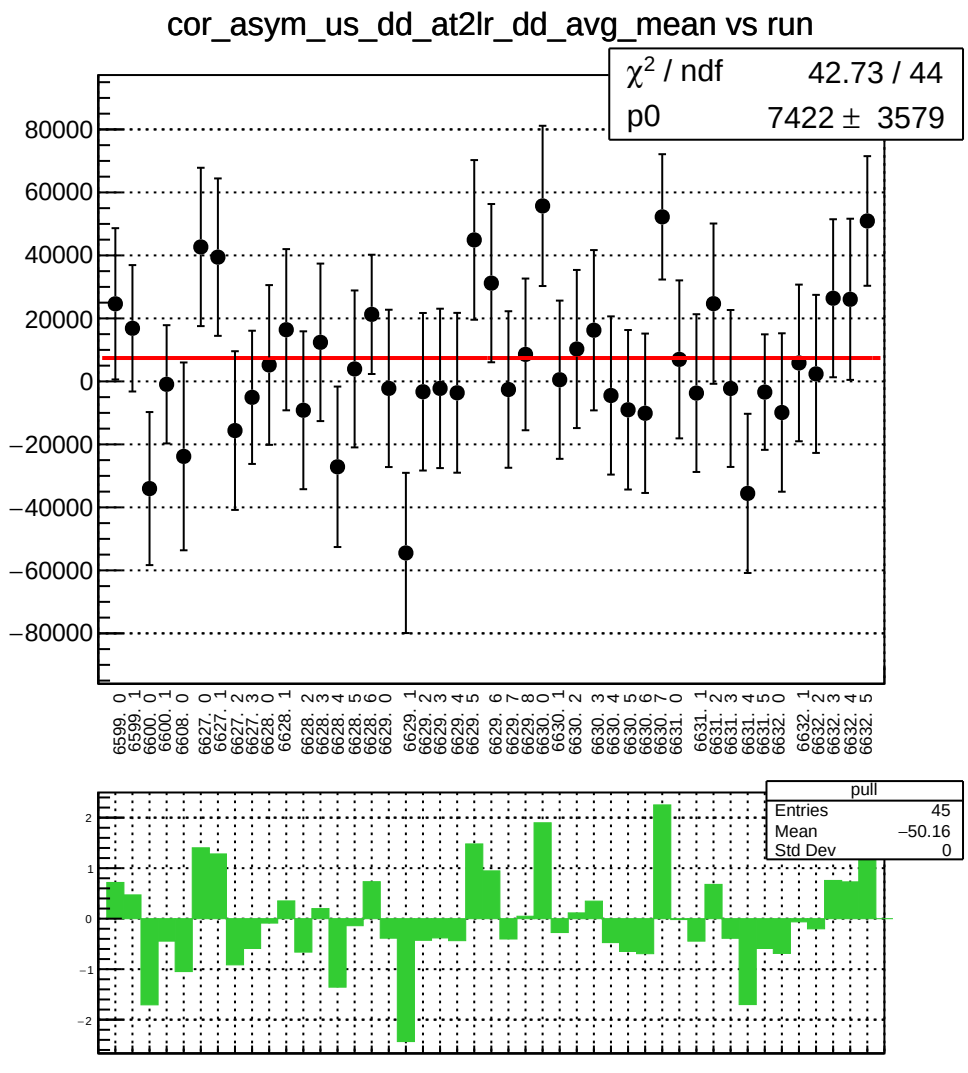

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.981e+05 / 44
p0 1.685e−11 ± 2.036e−14
70
60
50
40
30
20
10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

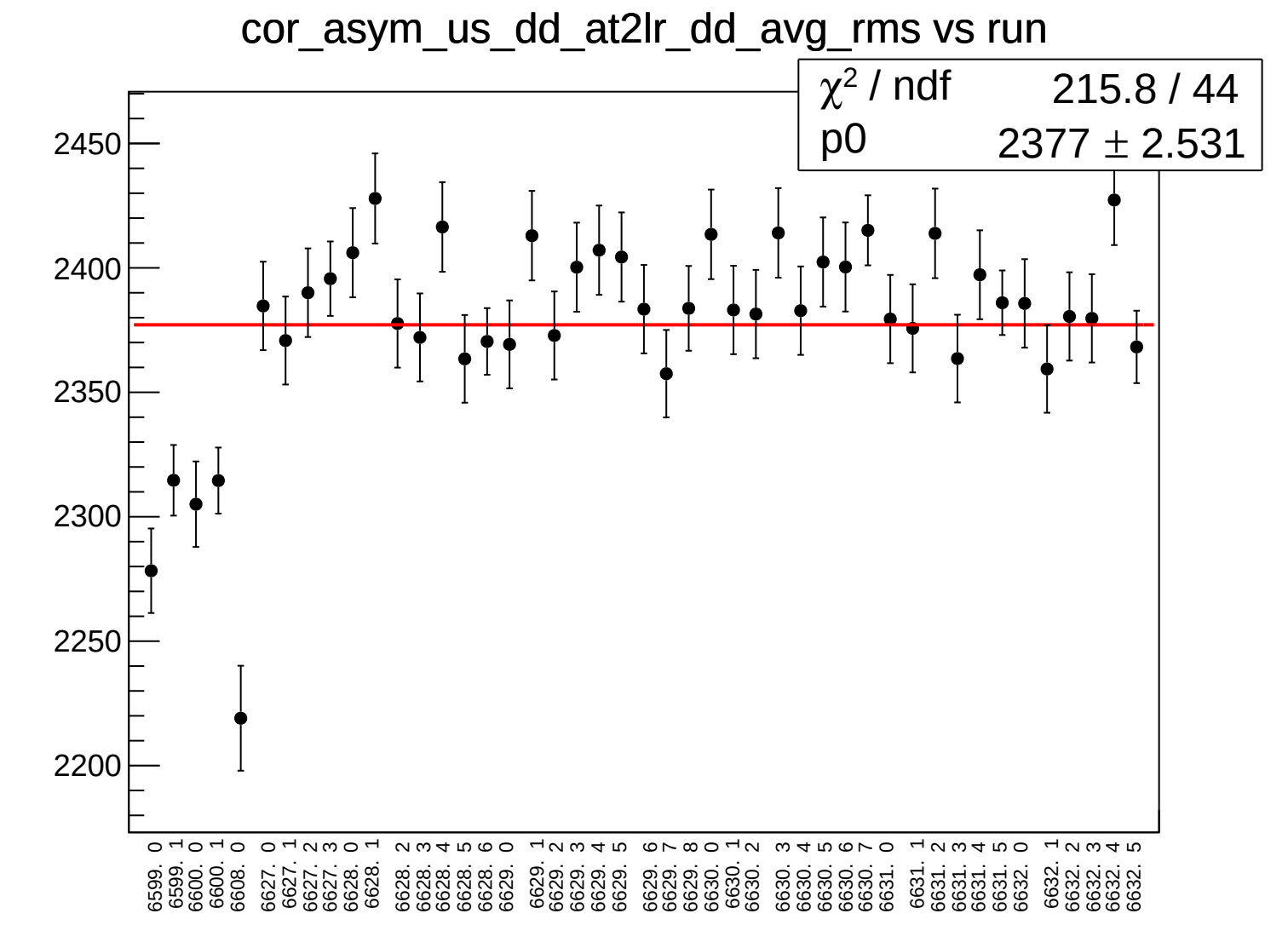

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 42.73 / 44
p0 7420 ± 3579
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −50.19
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.024
Std Dev 0.9741
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 215.8 / 44
p0 2377 ± 2.531
2450
2400
2350
2300
2250
2200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
χ² / ndf 42.99 / 44
p0 3946 ± 1769
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 92.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.0181
Std Dev 0.9773
7
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 5439 / 44
p0 1171 ± 1.251
1450
1400
1350
1300
1250
1200
1150
1100
1050
1000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 42.73 / 44
p0 7422 ± 3579
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −50.16
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.024
Std Dev 0.9741
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 215.8 / 44
p0 2377 ± 2.531
2450
2400
2350
2300
2250
2200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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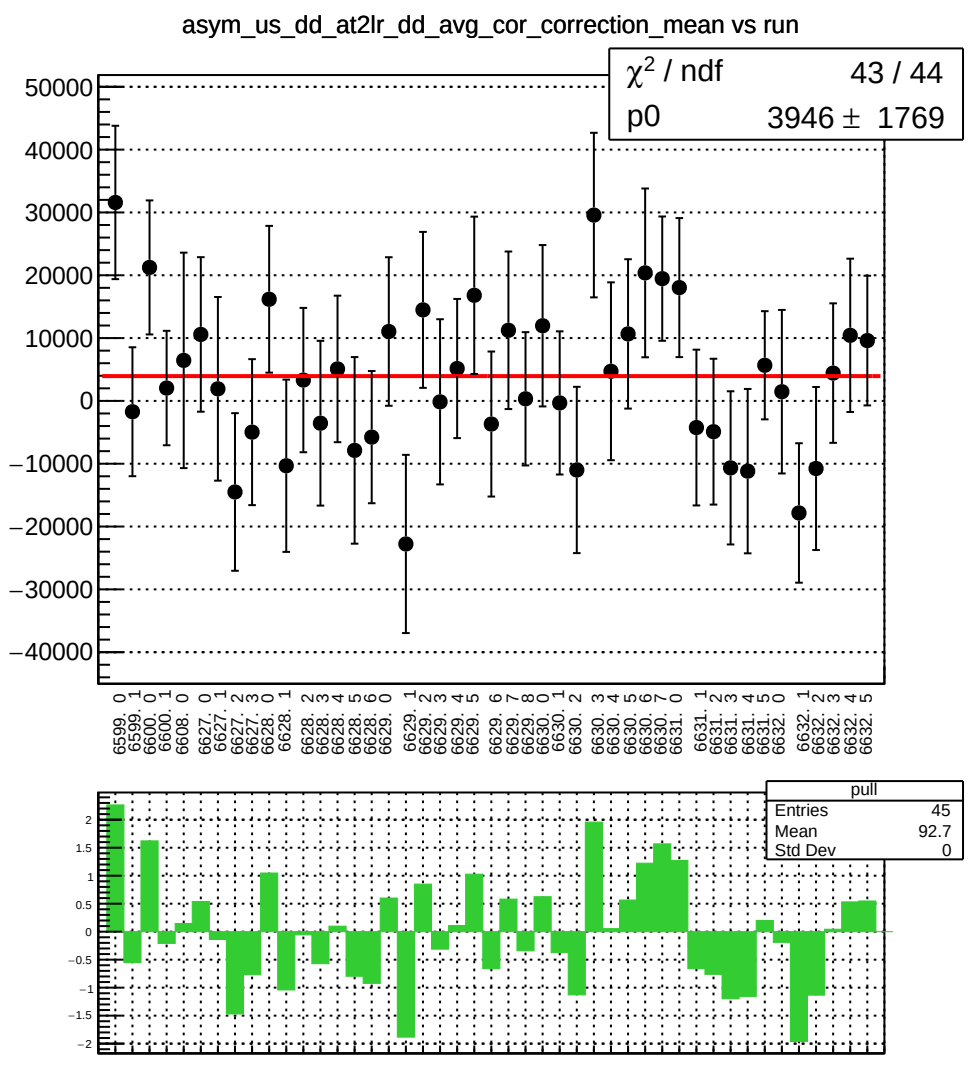
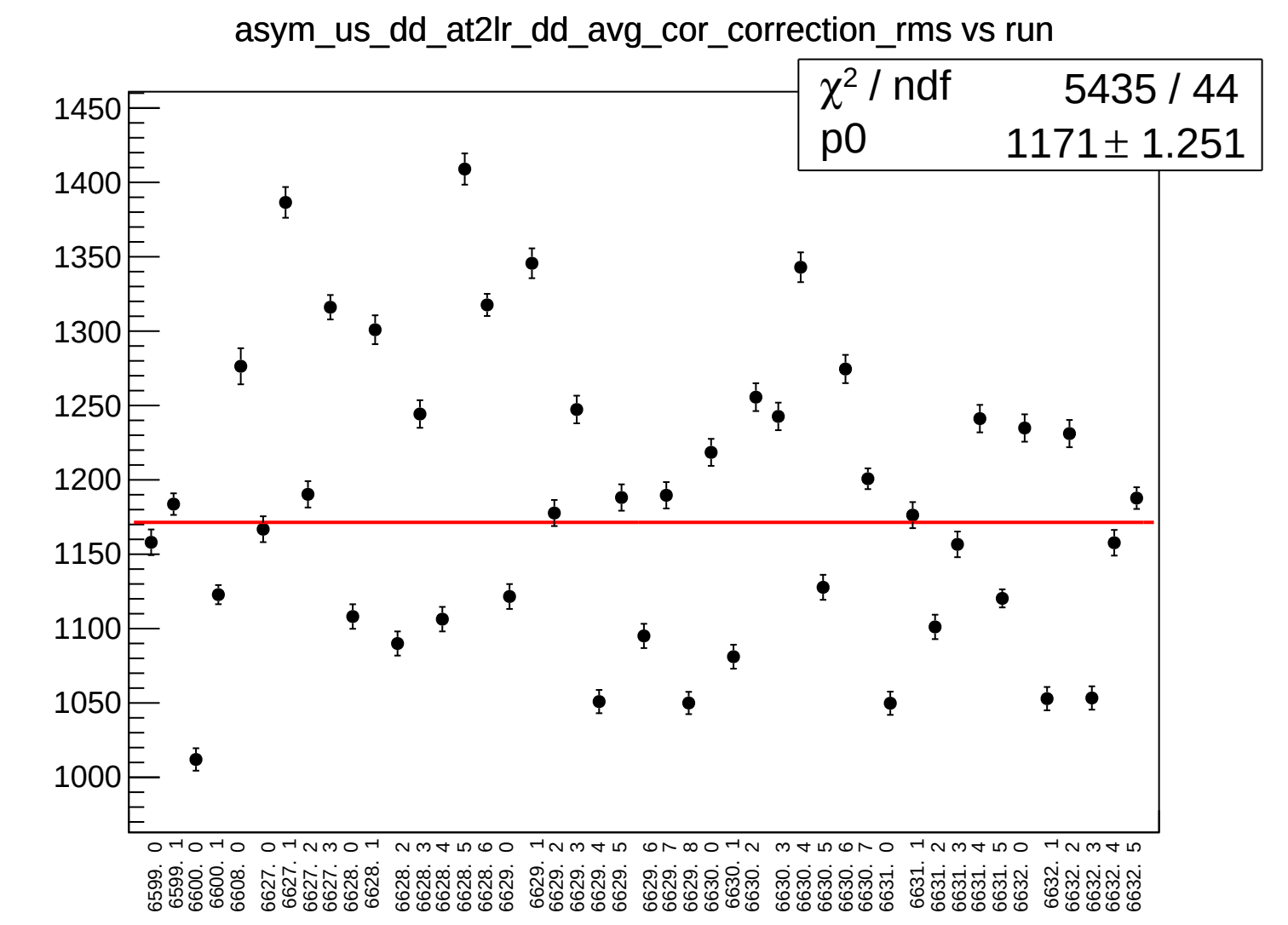
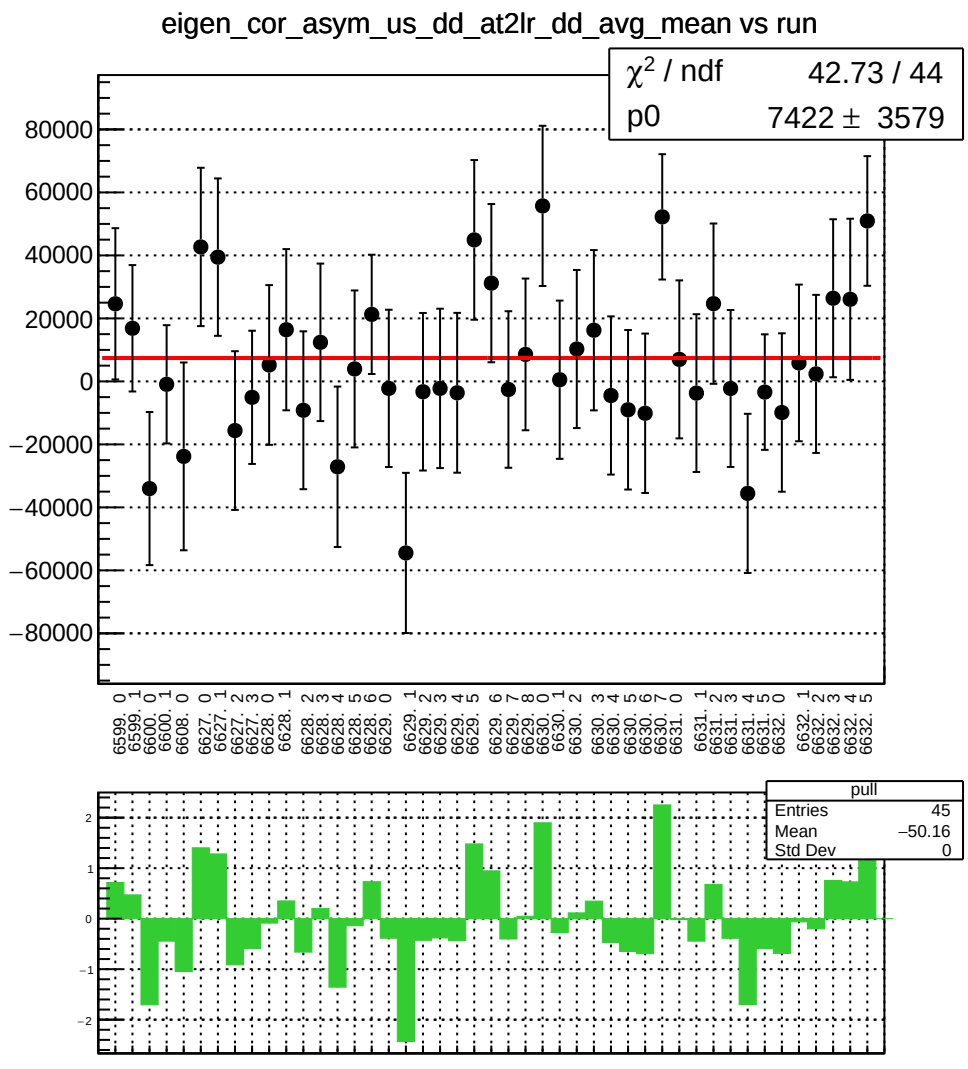
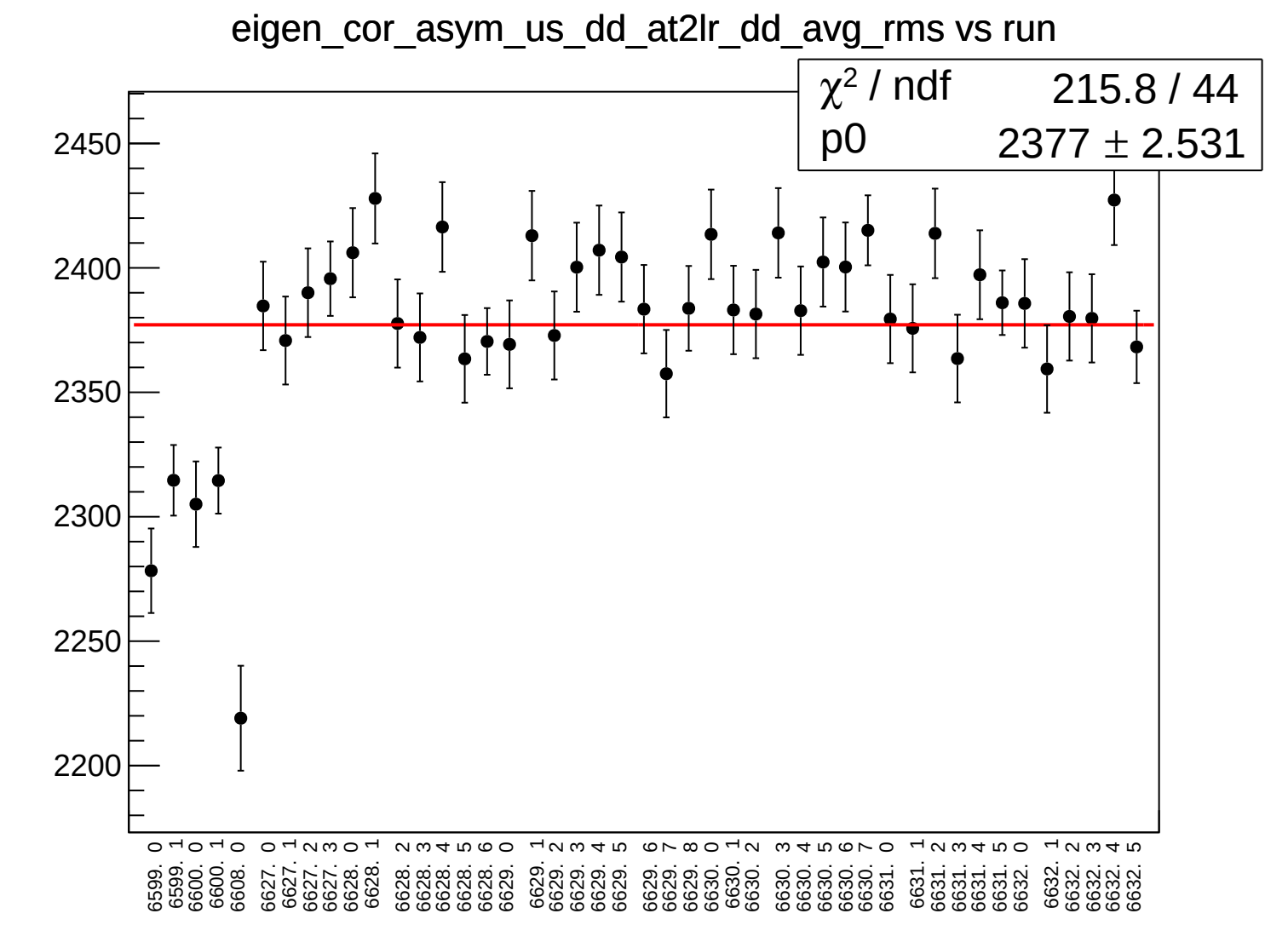
6632. 3
6632. 4
6632. 5


asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
χ² / ndf 43 / 44
p0 3946 ± 1769
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 92.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01805
Std Dev 0.9774
7
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 5435 / 44
p0 1171 ± 1.251
1450
1400
1350
1300
1250
1200
1150
1100
1050
1000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 42.73 / 44
p0 7422 ± 3579
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −50.16
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.024
Std Dev 0.9741
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 215.8 / 44
p0 2377 ± 2.531
2450
2400
2350
2300
2250
2200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 4
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6629. 6
6629. 7
6629. 8
6630. 0
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6631. 0
6631. 1
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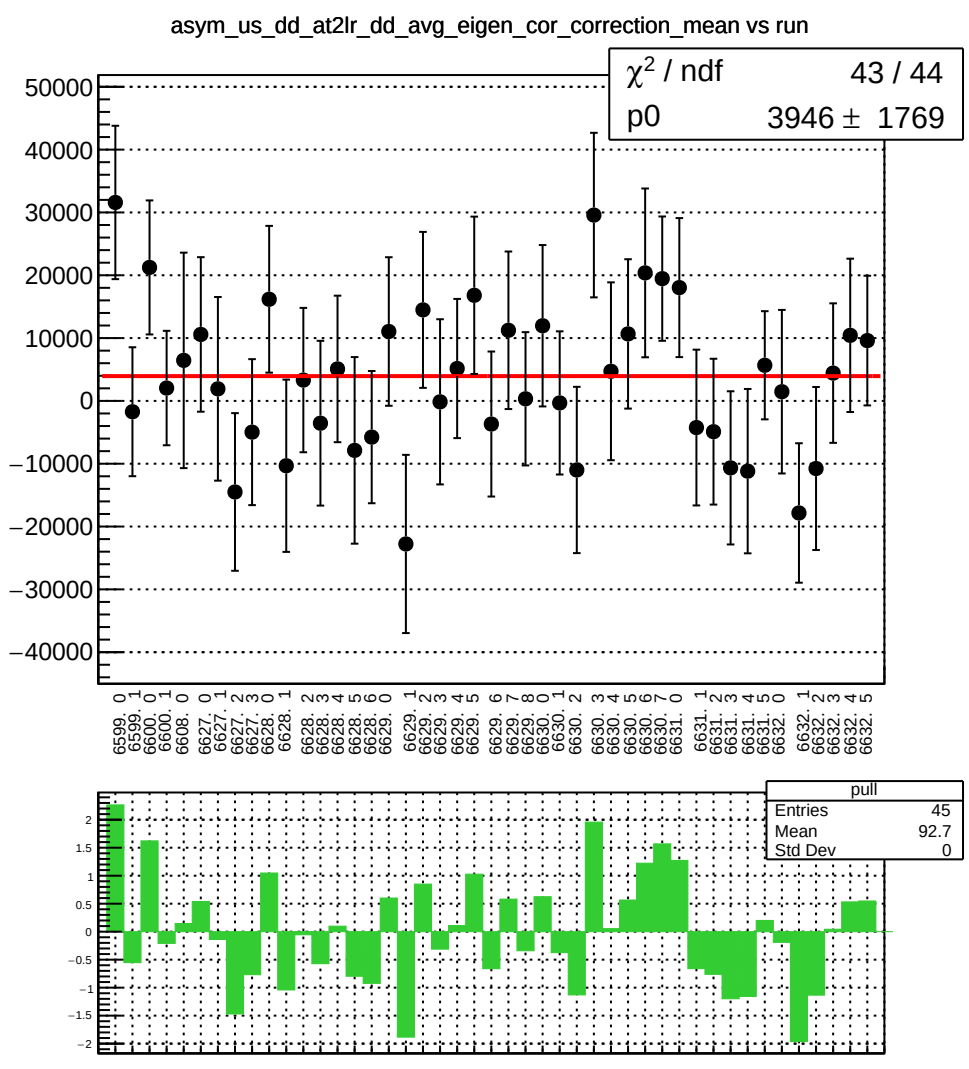
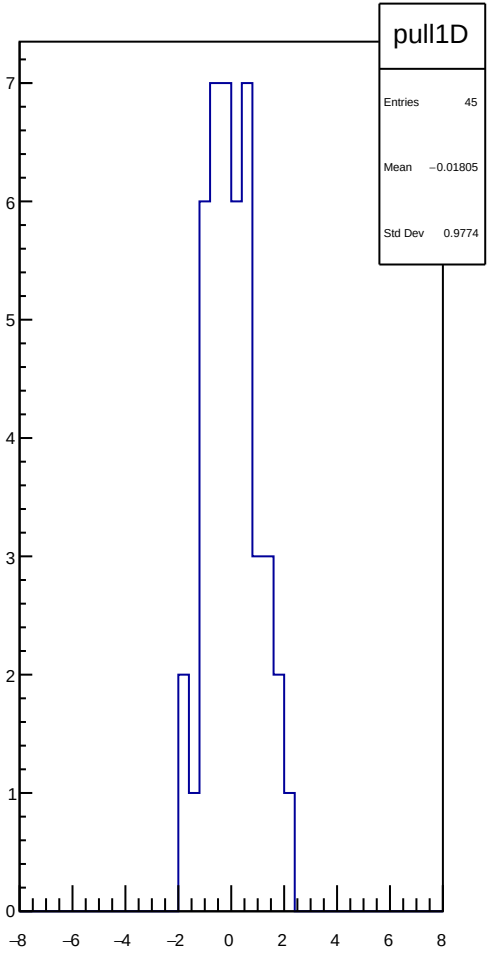
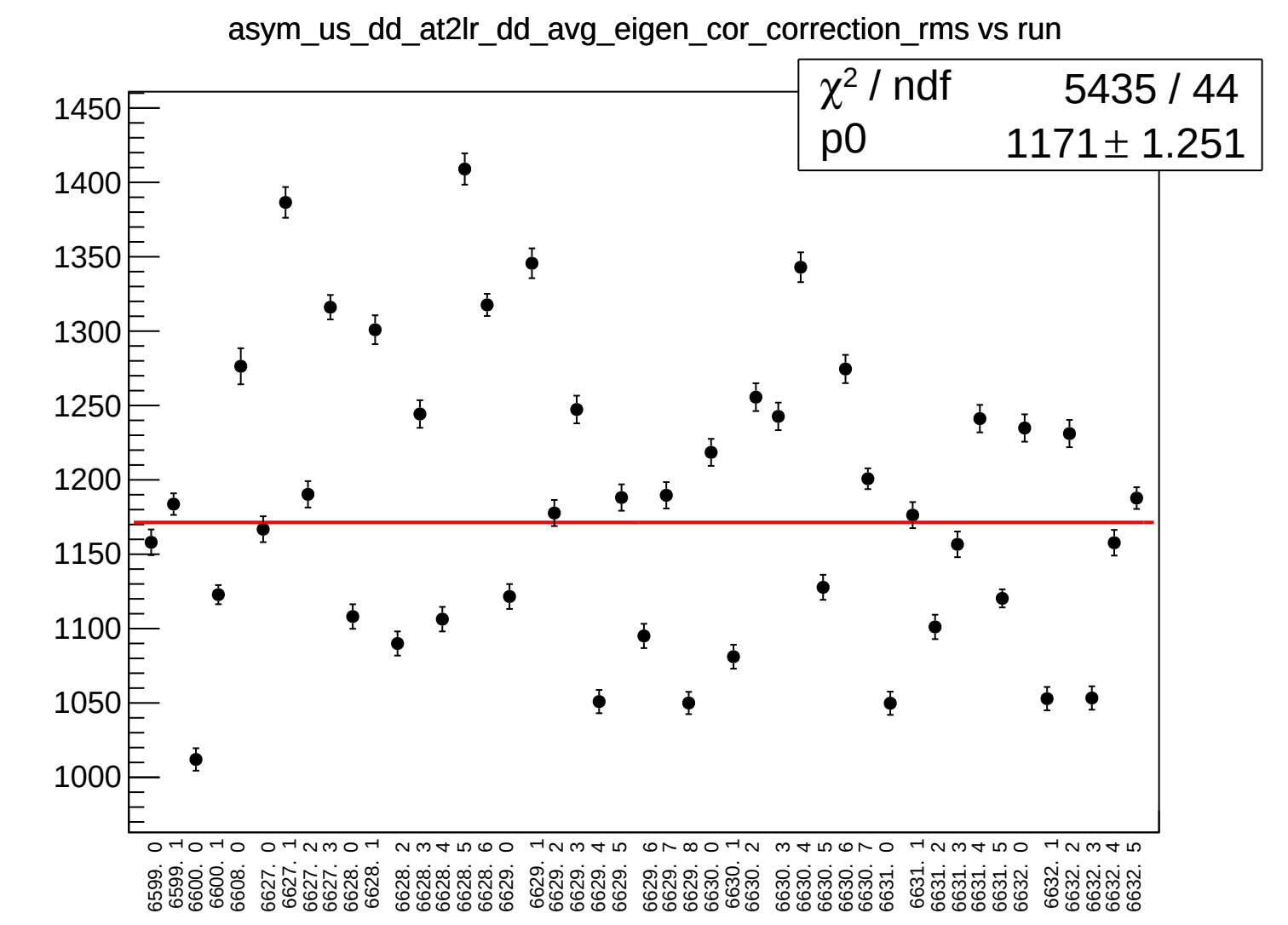
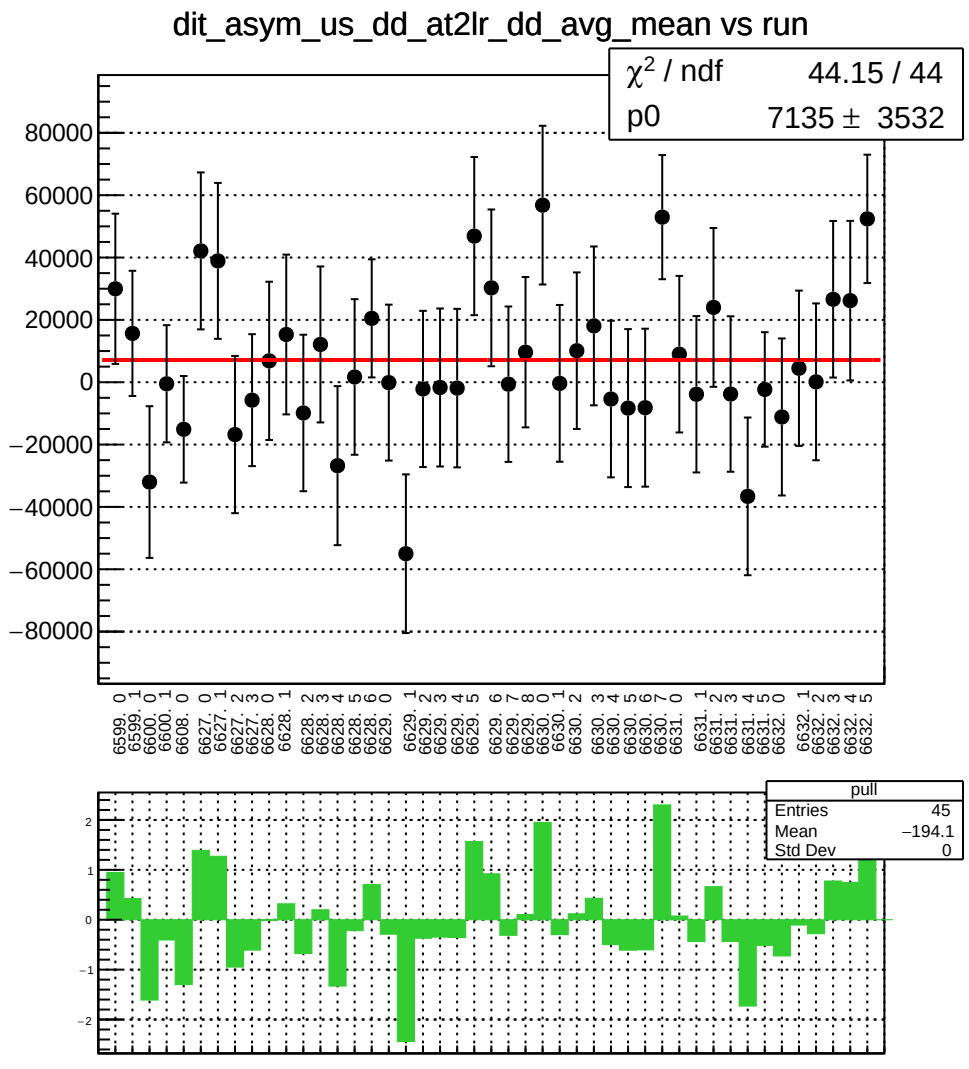
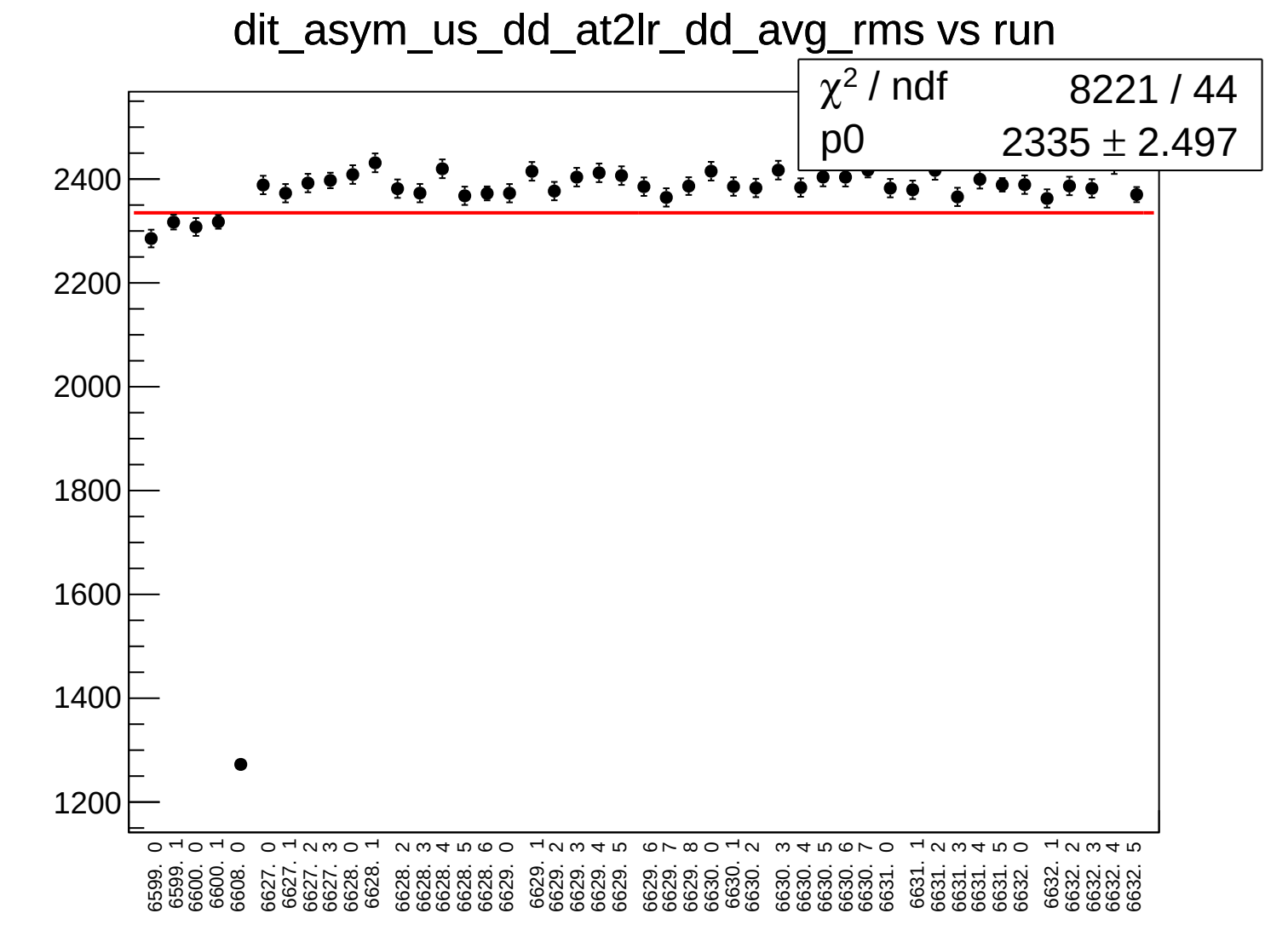
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

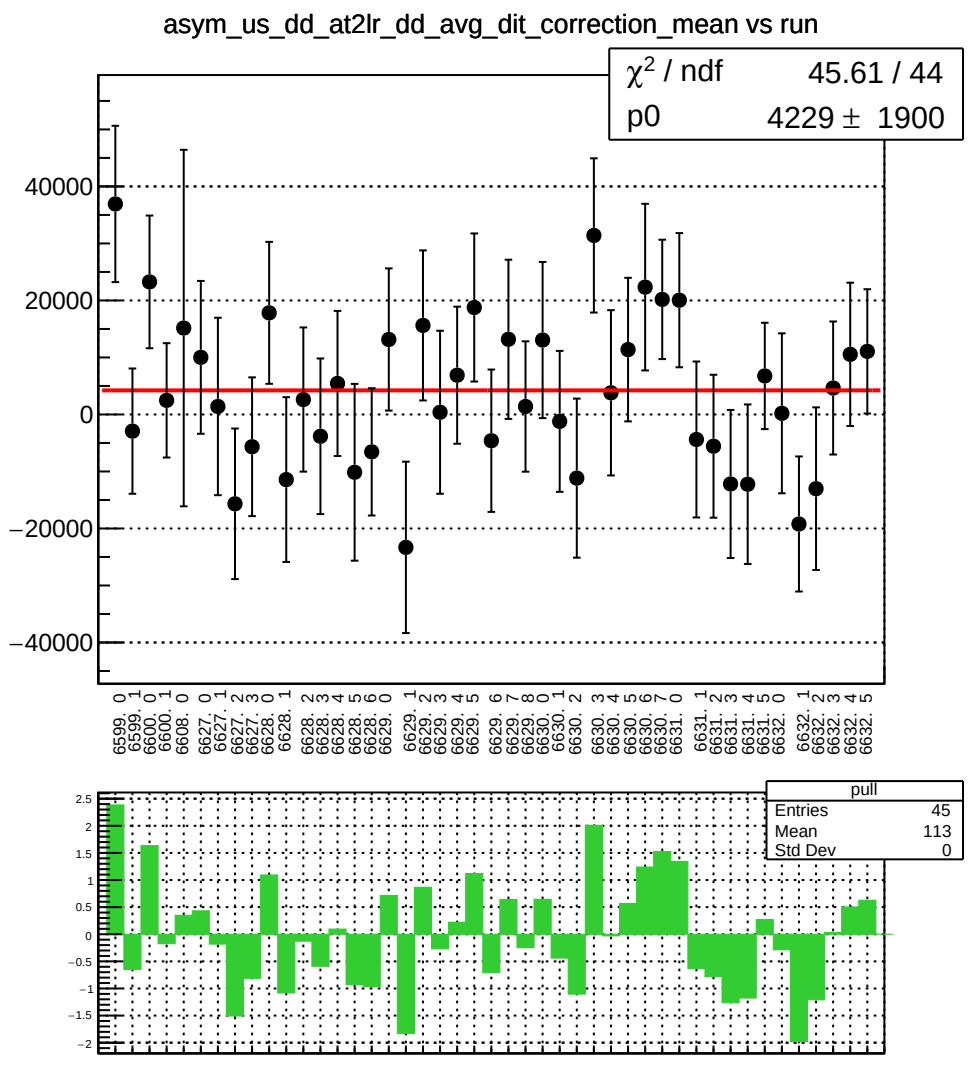

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 43 / 44
p0 3946 ± 1769
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 92.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

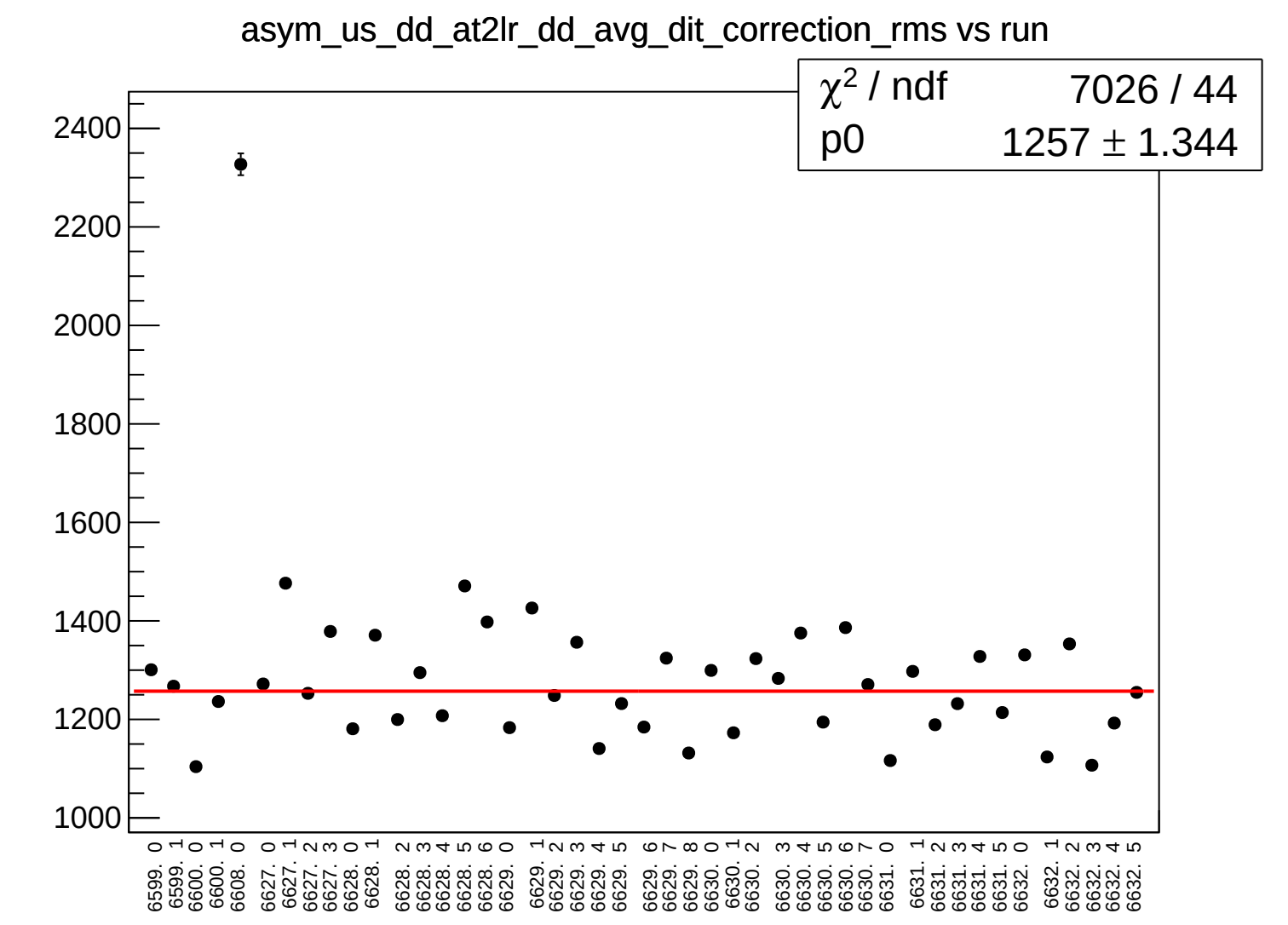

pull1D
Entries 45
Mean −0.01805
Std Dev 0.9774
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

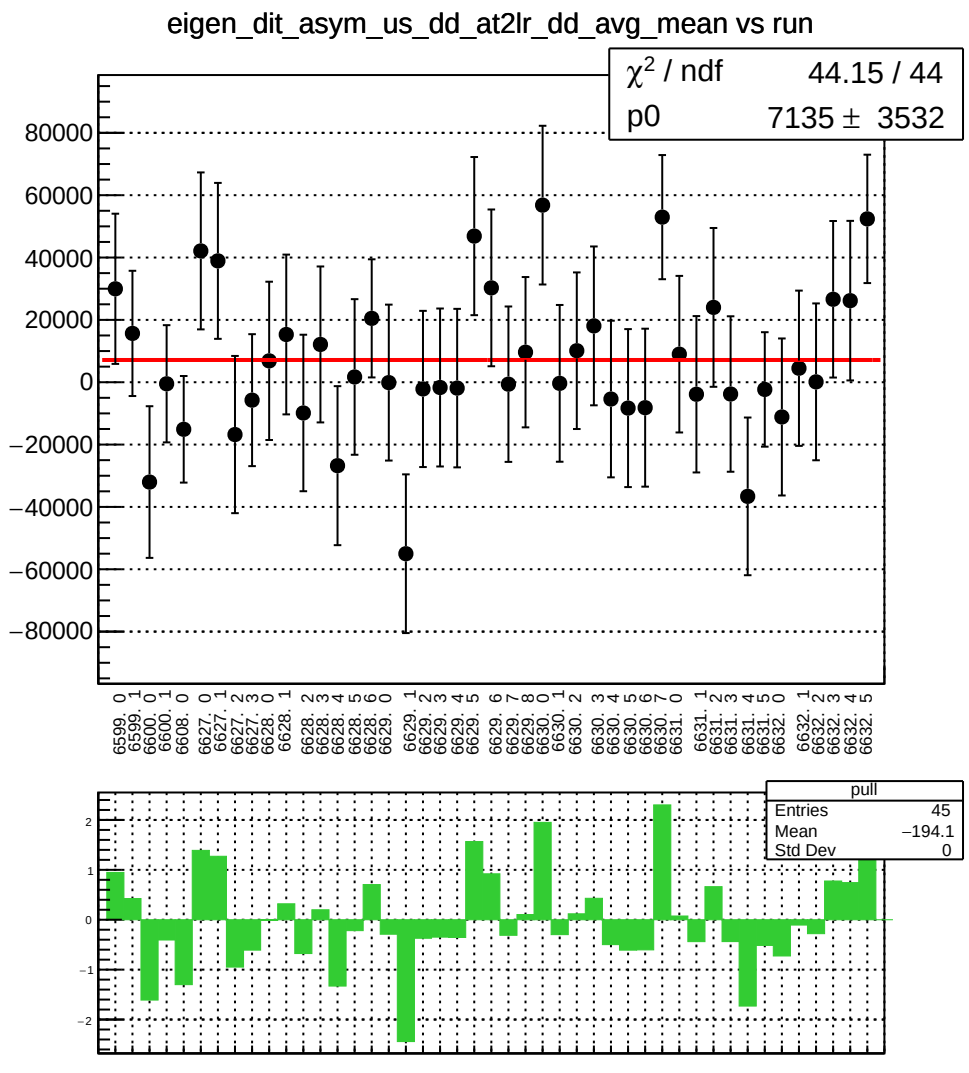

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 5435 / 44
p0 1171 ± 1.251
1450
1400
1350
1300
1250
1200
1150
1100
1050
1000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

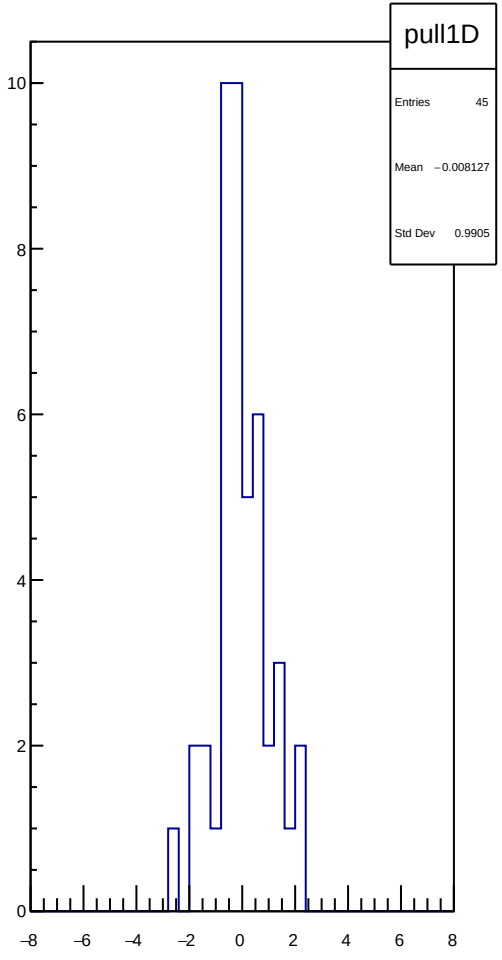

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 44.15 / 44
p0 7135 ± 3532
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −194.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.008127
Std Dev 0.9905
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

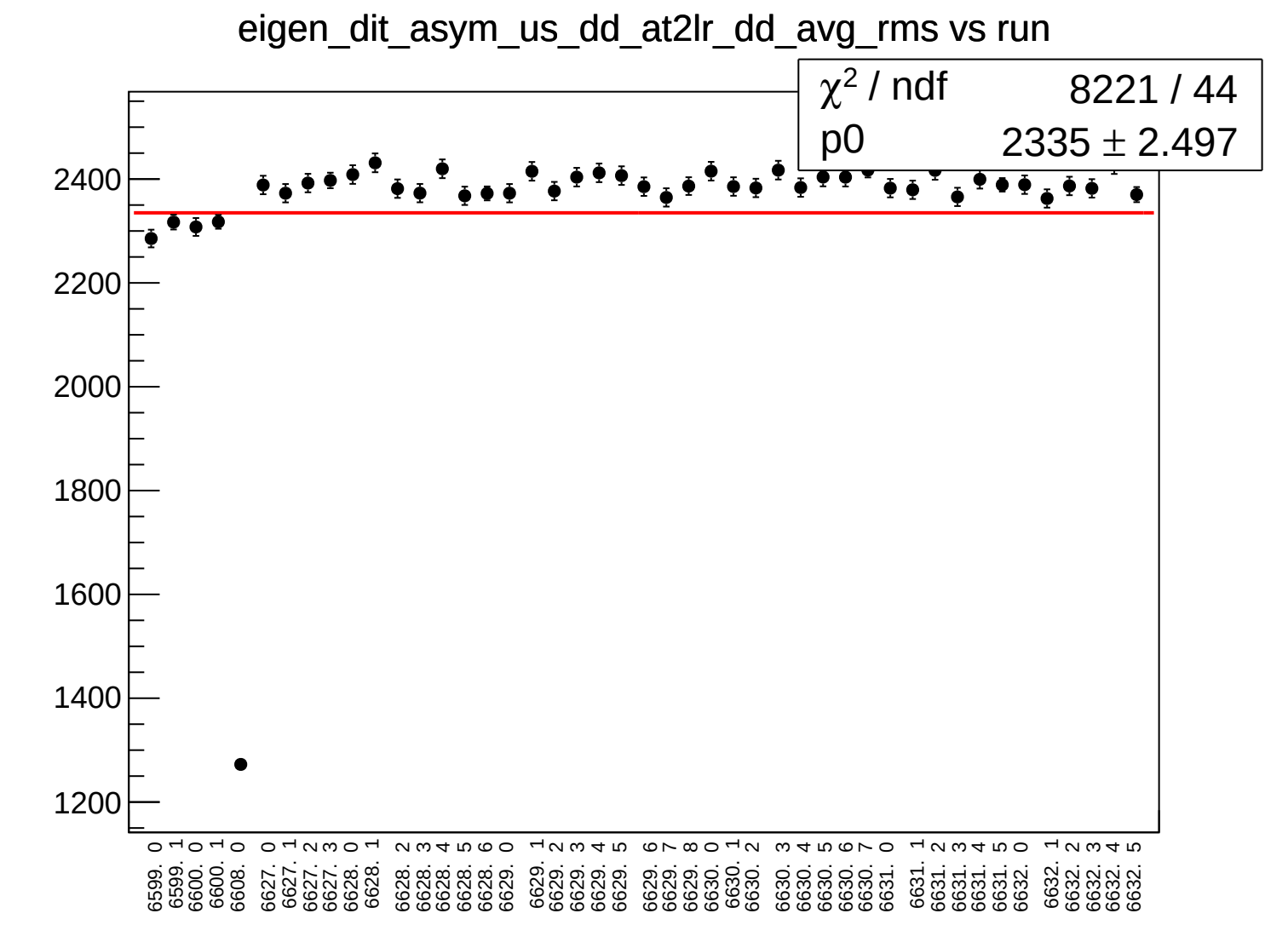

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 8221 / 44
p0 2335 ± 2.497
2400
2200
2000
1800
1600
1400
1200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
χ² / ndf 45.61 / 44
p0 4229 ± 1900
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 113
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01465
Std Dev 1.007
7
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 7026 / 44
p0 1257 ± 1.344
2400
2200
2000
1800
1600
1400
1200
1000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 44.15 / 44
p0 7135 ± 3532
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −194.1
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.008127
Std Dev 0.9905
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 8221 / 44
p0 2335 ± 2.497
2400
2200
2000
1800
1600
1400
1200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
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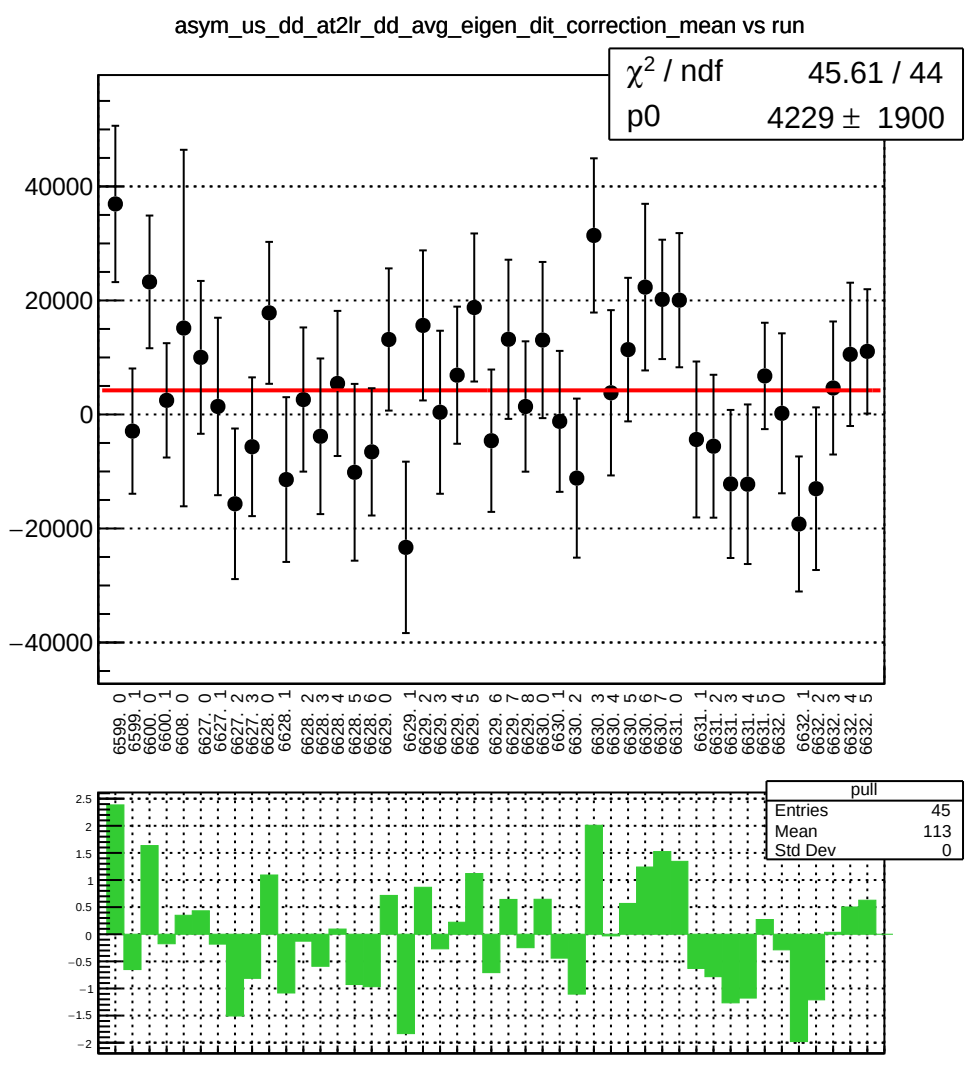
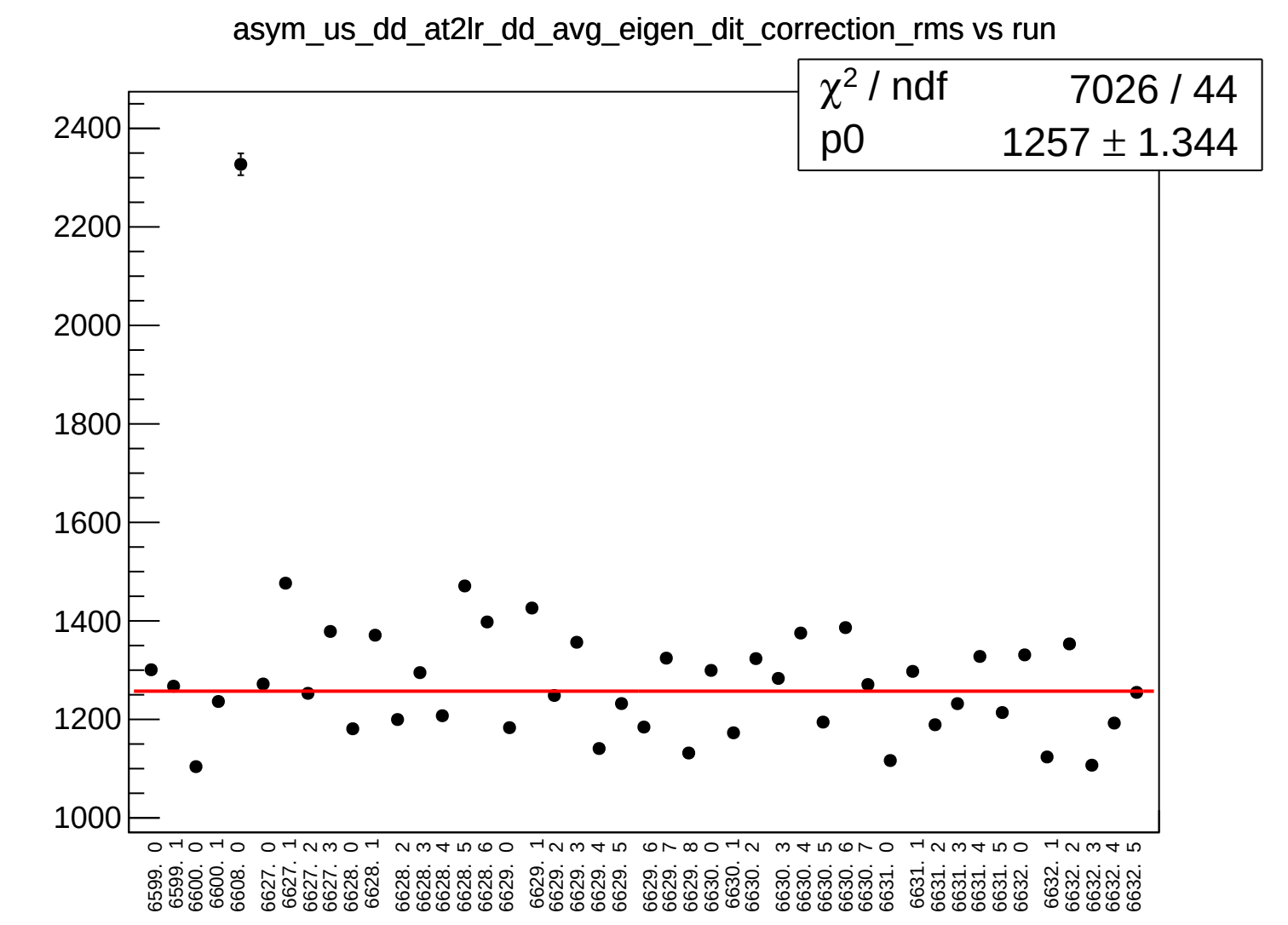
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 45.61 / 44
p0 4229 ± 1900
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 113
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01465
Std Dev 1.007
7
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 7026 / 44
p0 1257 ± 1.344
2400
2200
2000
1800
1600
1400
1200
1000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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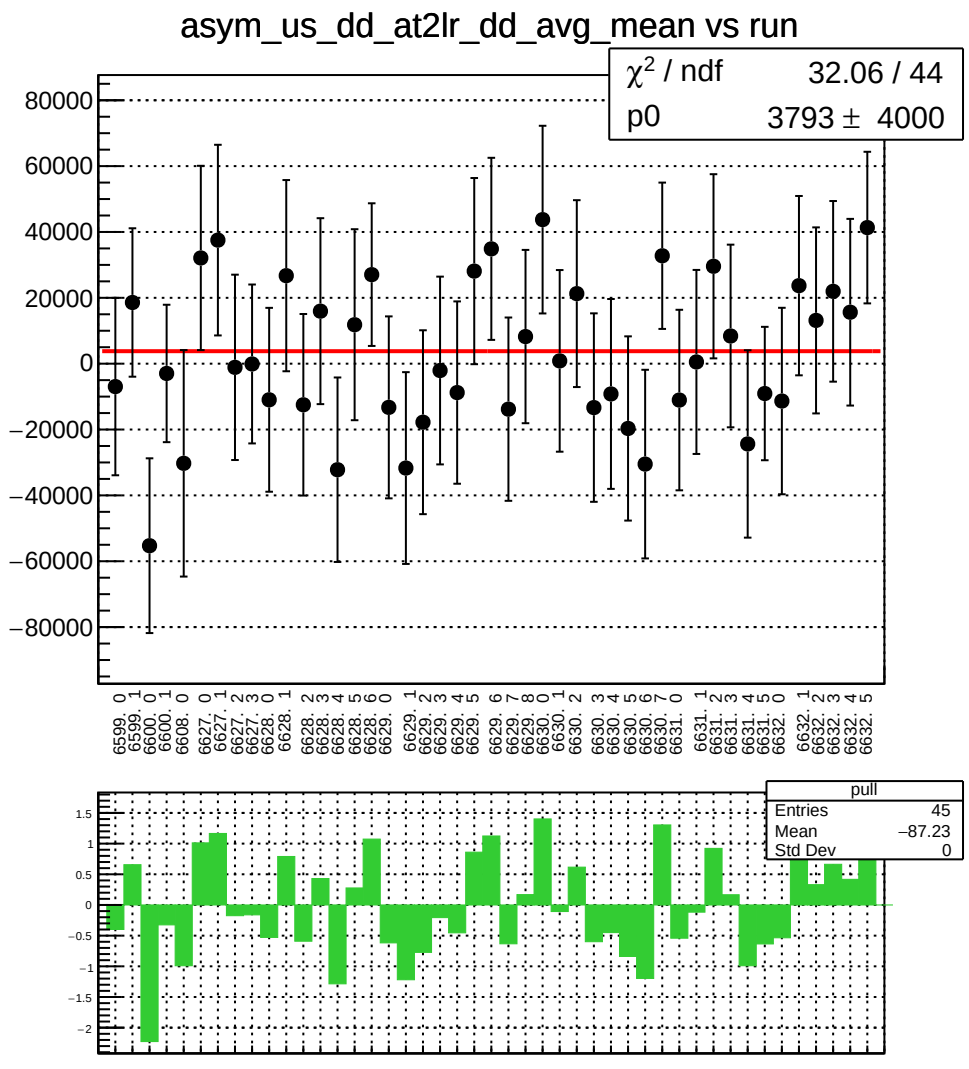
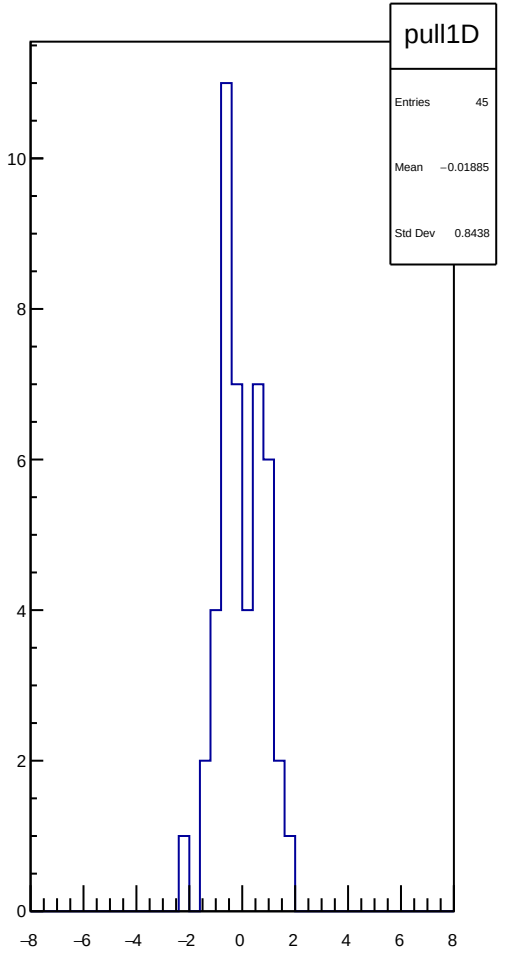
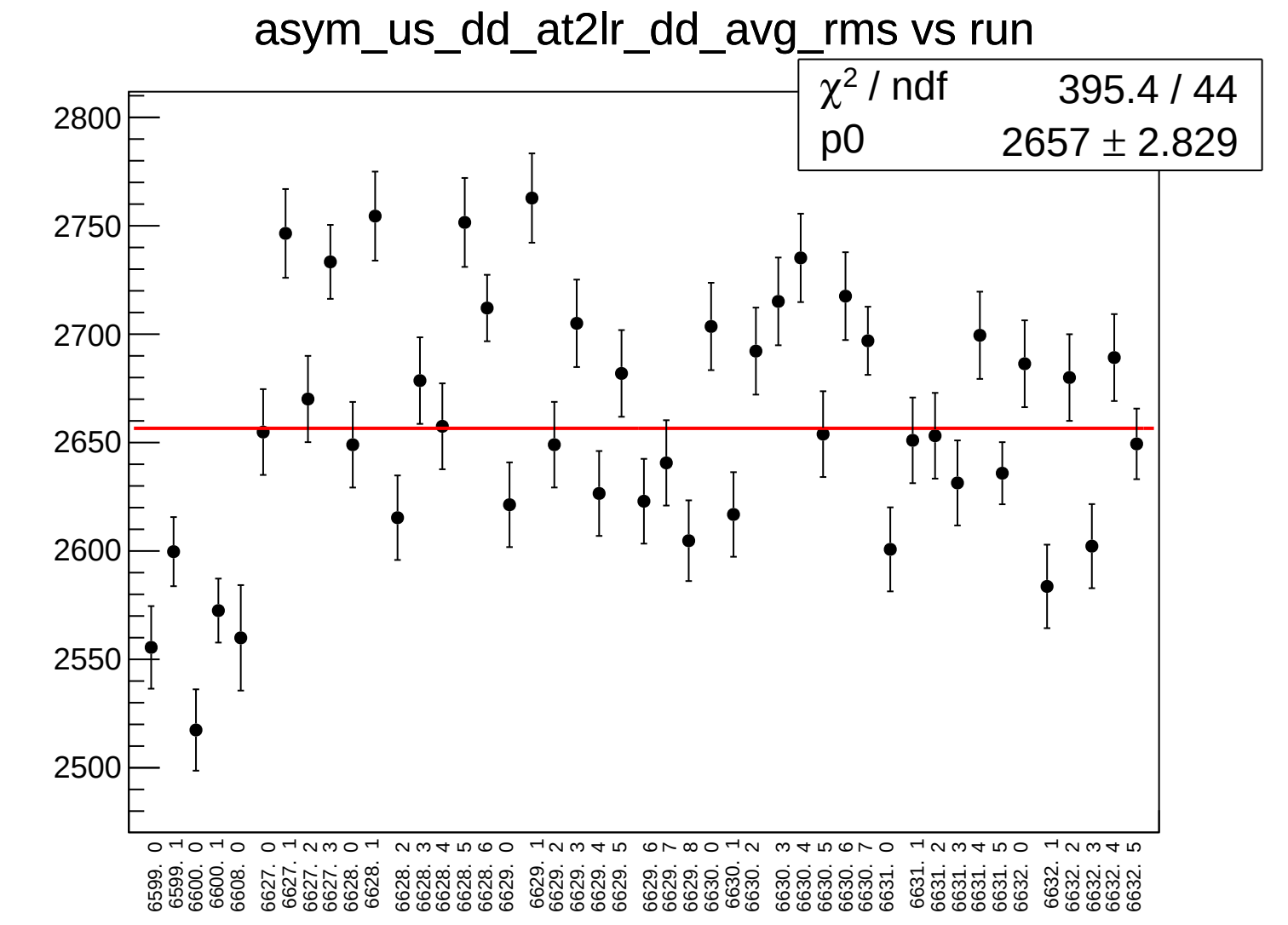
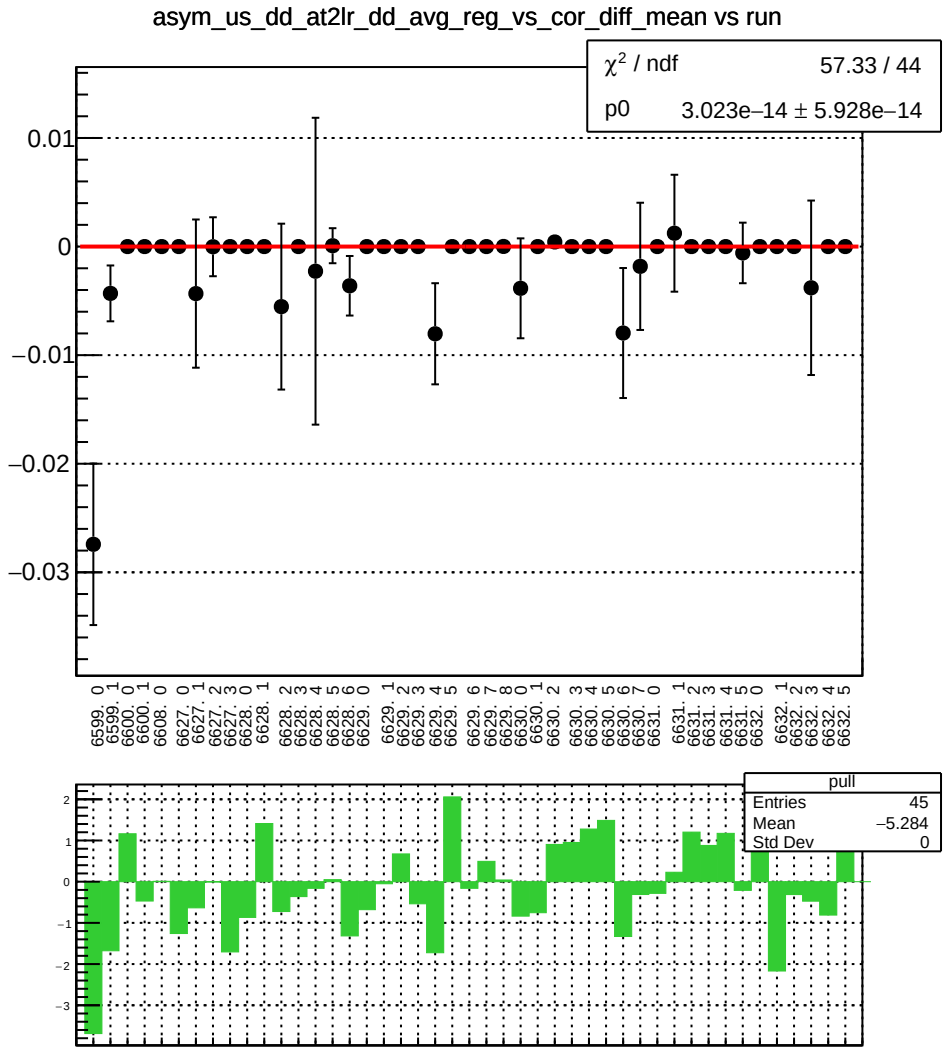
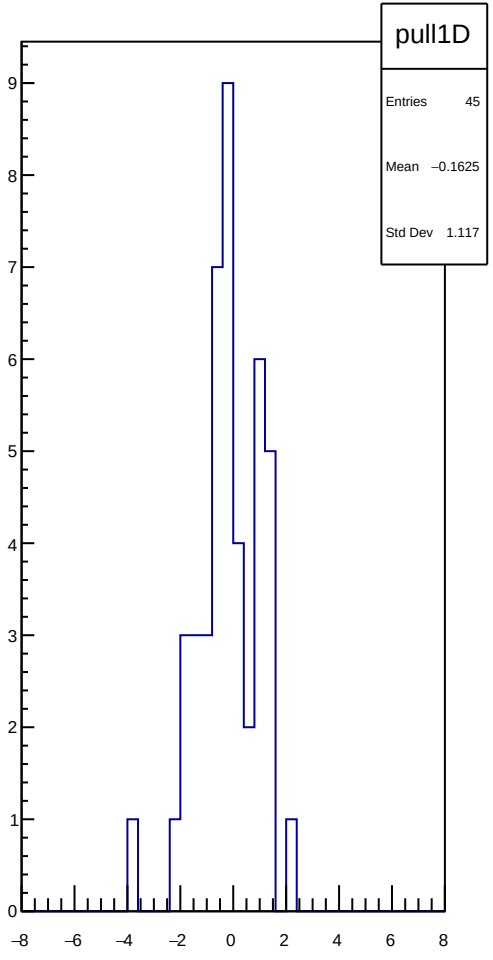
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

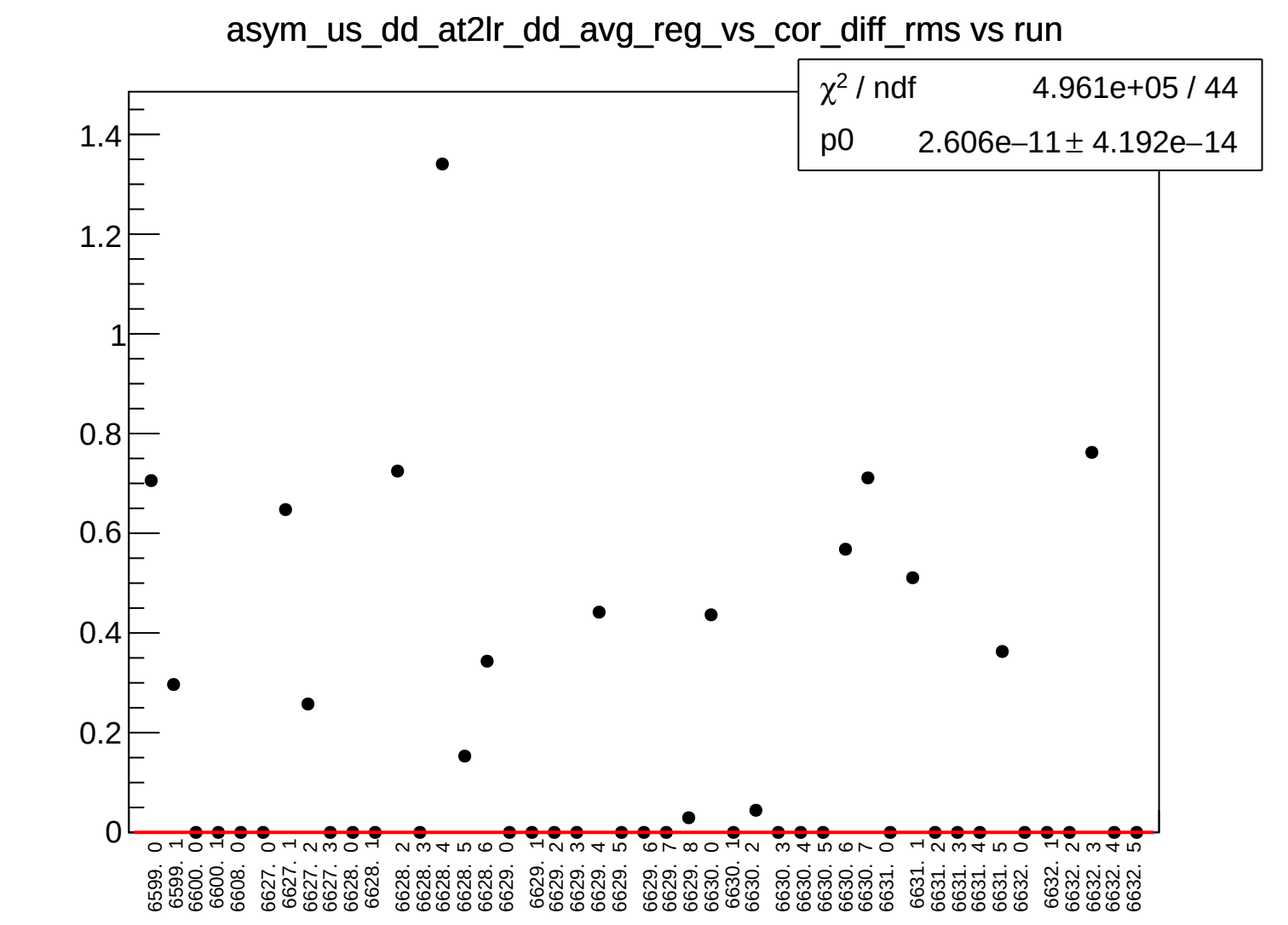

asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 32.06 / 44
p0 3793 ± 4000
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −87.23
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.01885
Std Dev 0.8438
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 395.4 / 44
p0 2657 ± 2.829
2800
2750
2700
2650
2600
2550
2500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 57.33 / 44
p0 3.023e−14 ± 5.928e−14
0.01
0
−0.01
−0.02
−0.03
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −5.284
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.1625
Std Dev 1.117
9
8
7
6
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 4.961e+05 / 44
p0 2.606e−11 ± 4.192e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
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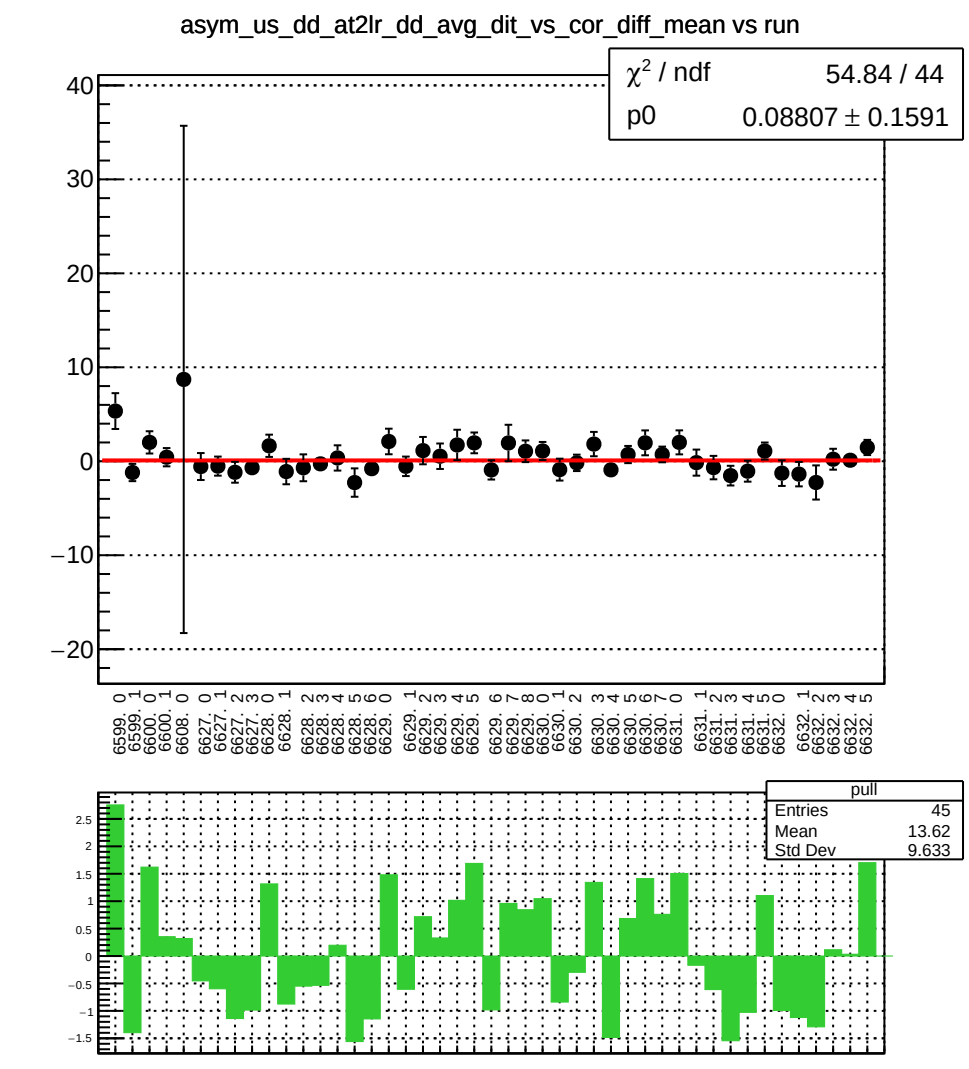
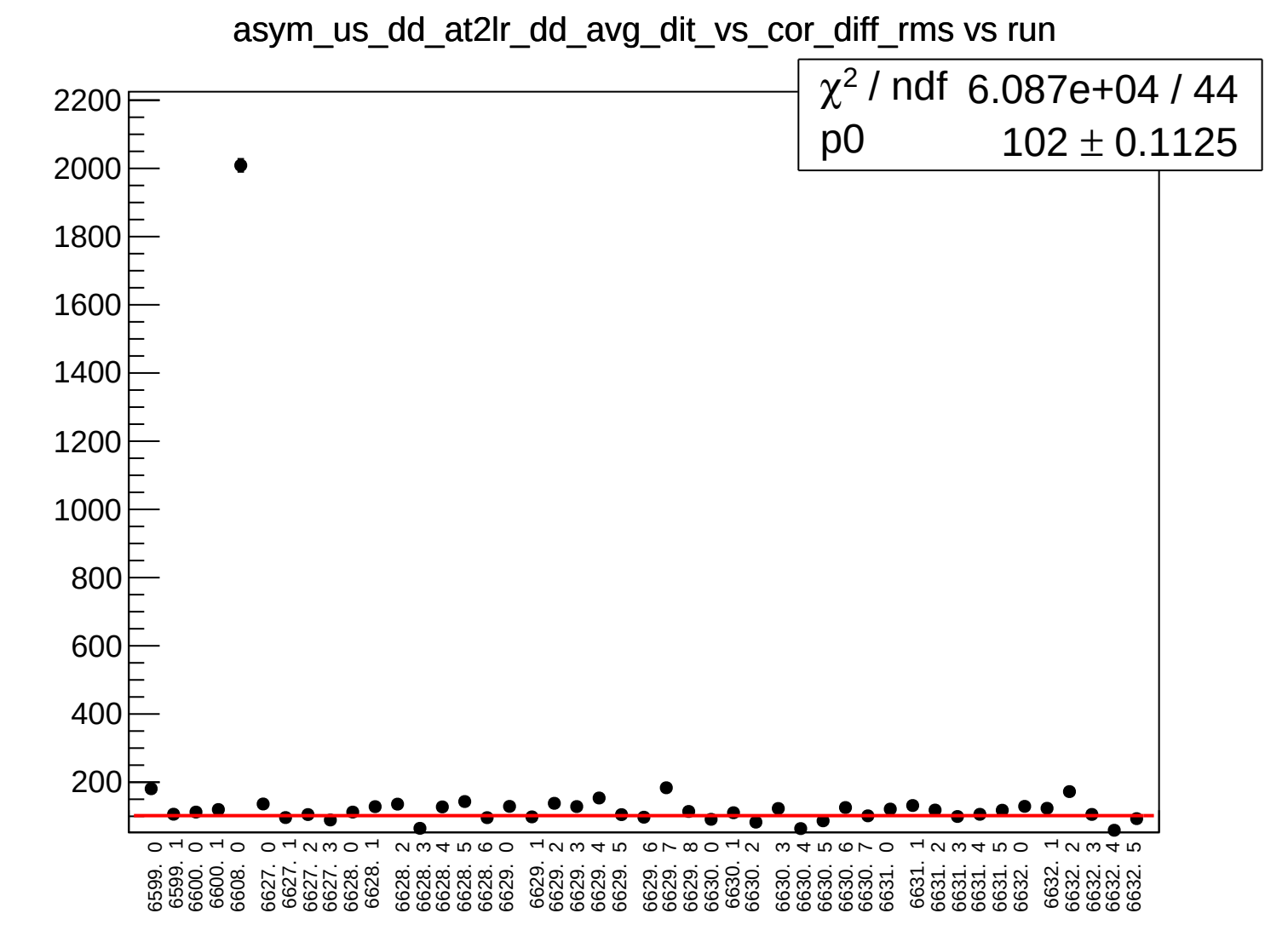
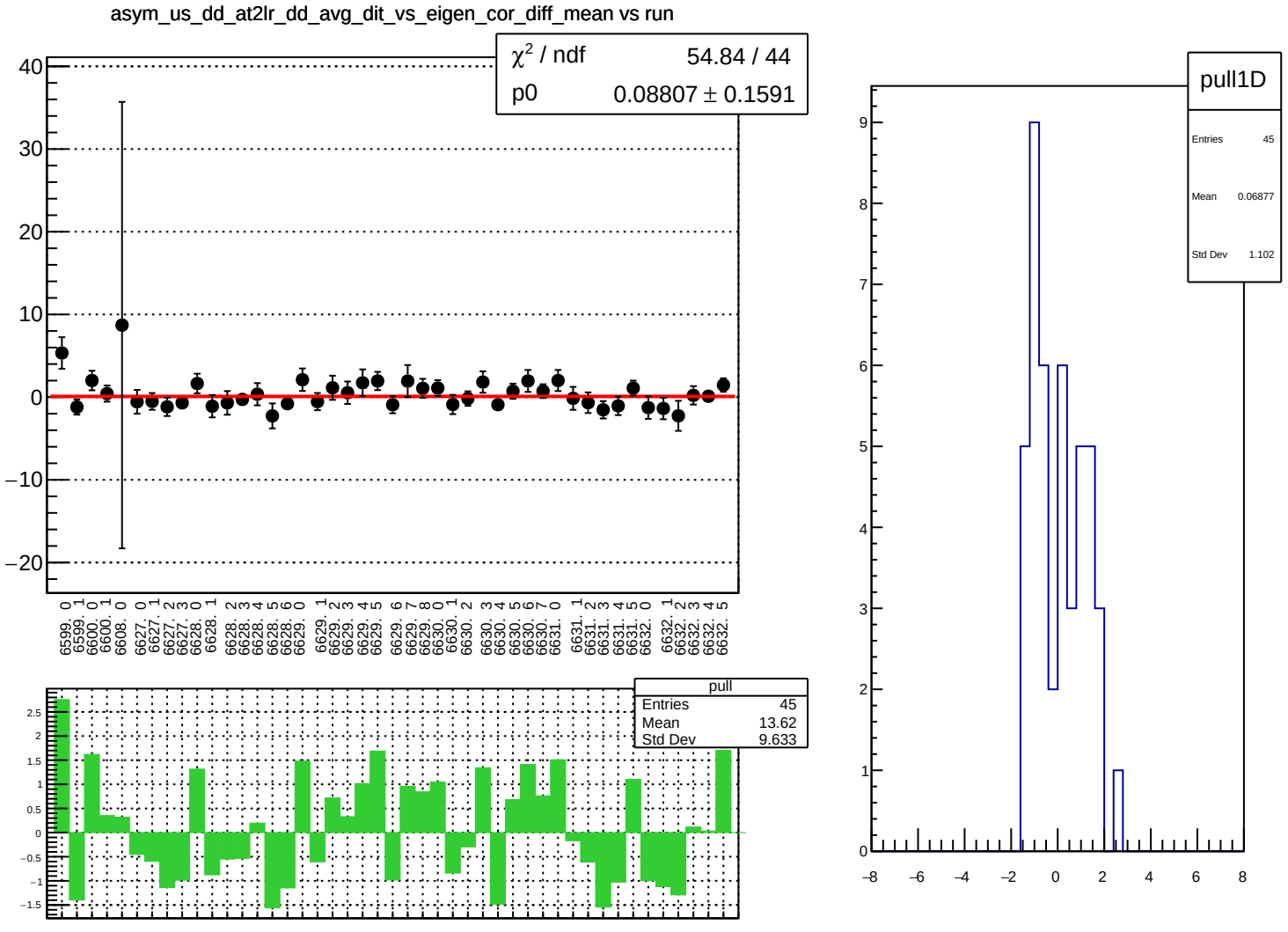
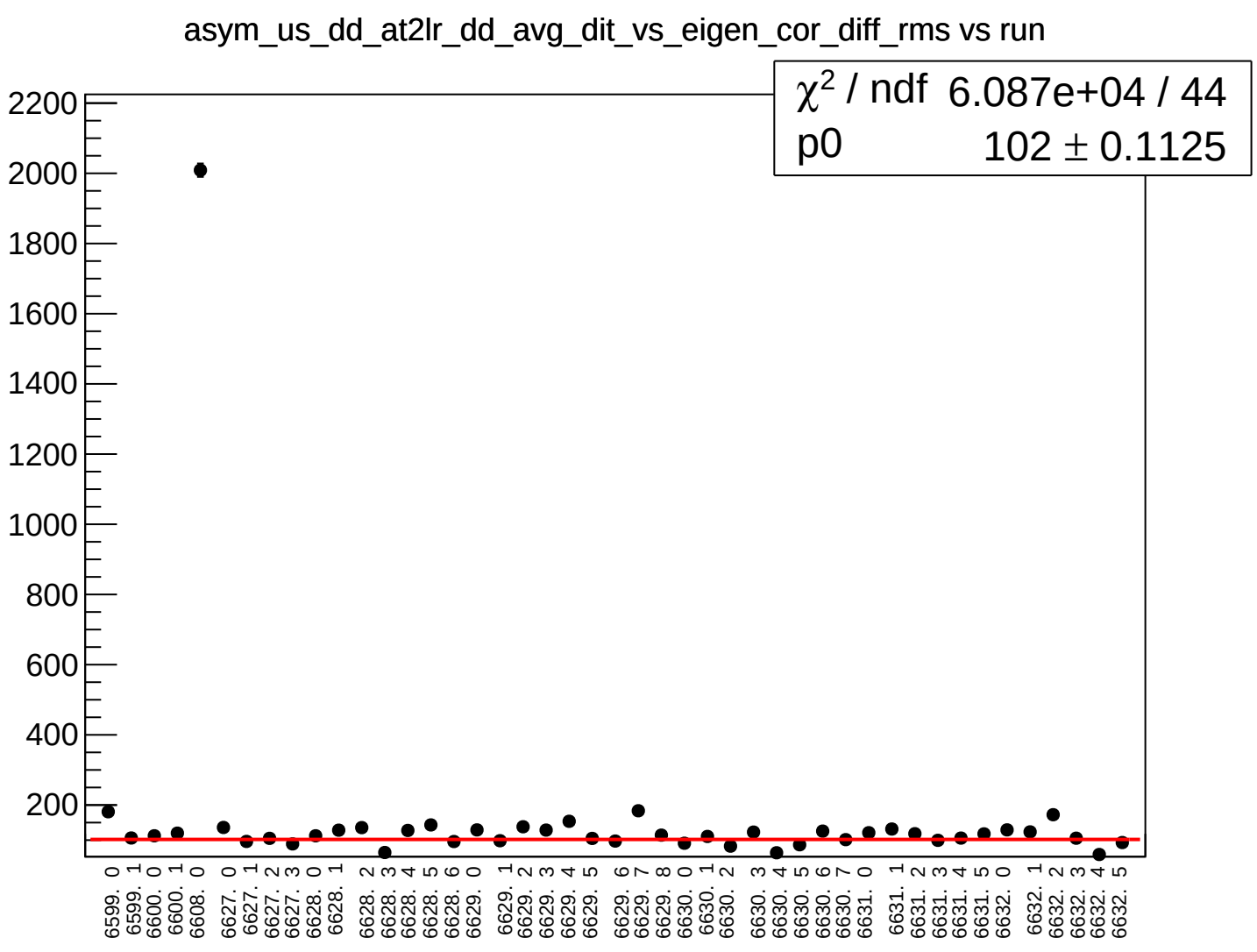
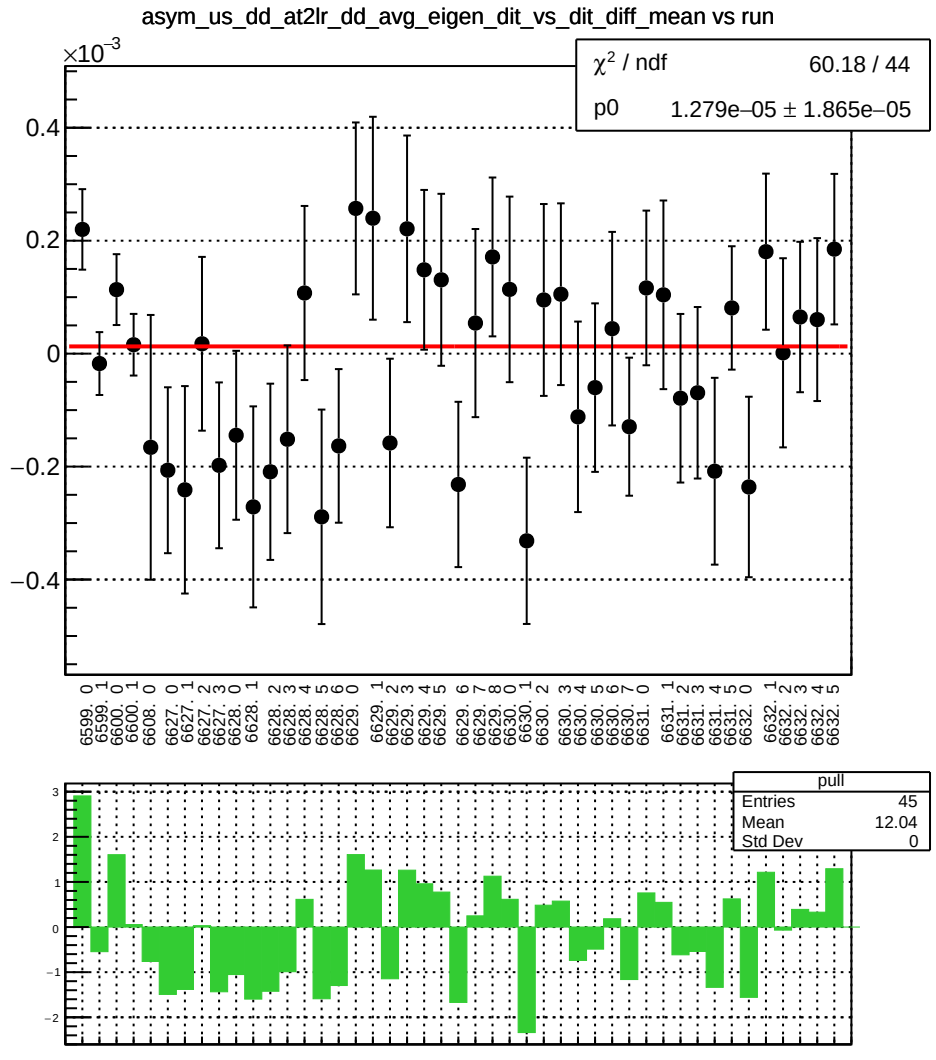
6632. 4
6632. 5

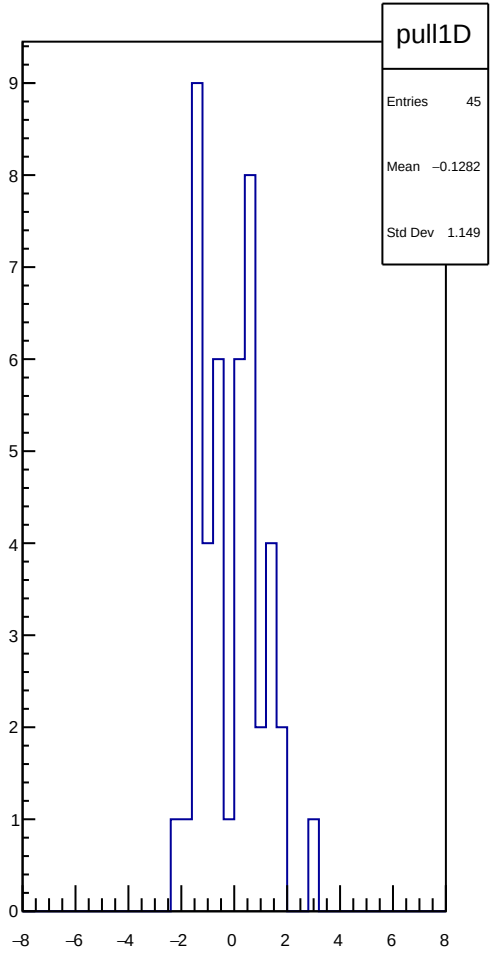

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 54.84 / 44
p0 0.08807 ± 0.1591
40
30
20
10
0
−10
−20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 13.62
Std Dev 9.633
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.06877
Std Dev 1.102
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

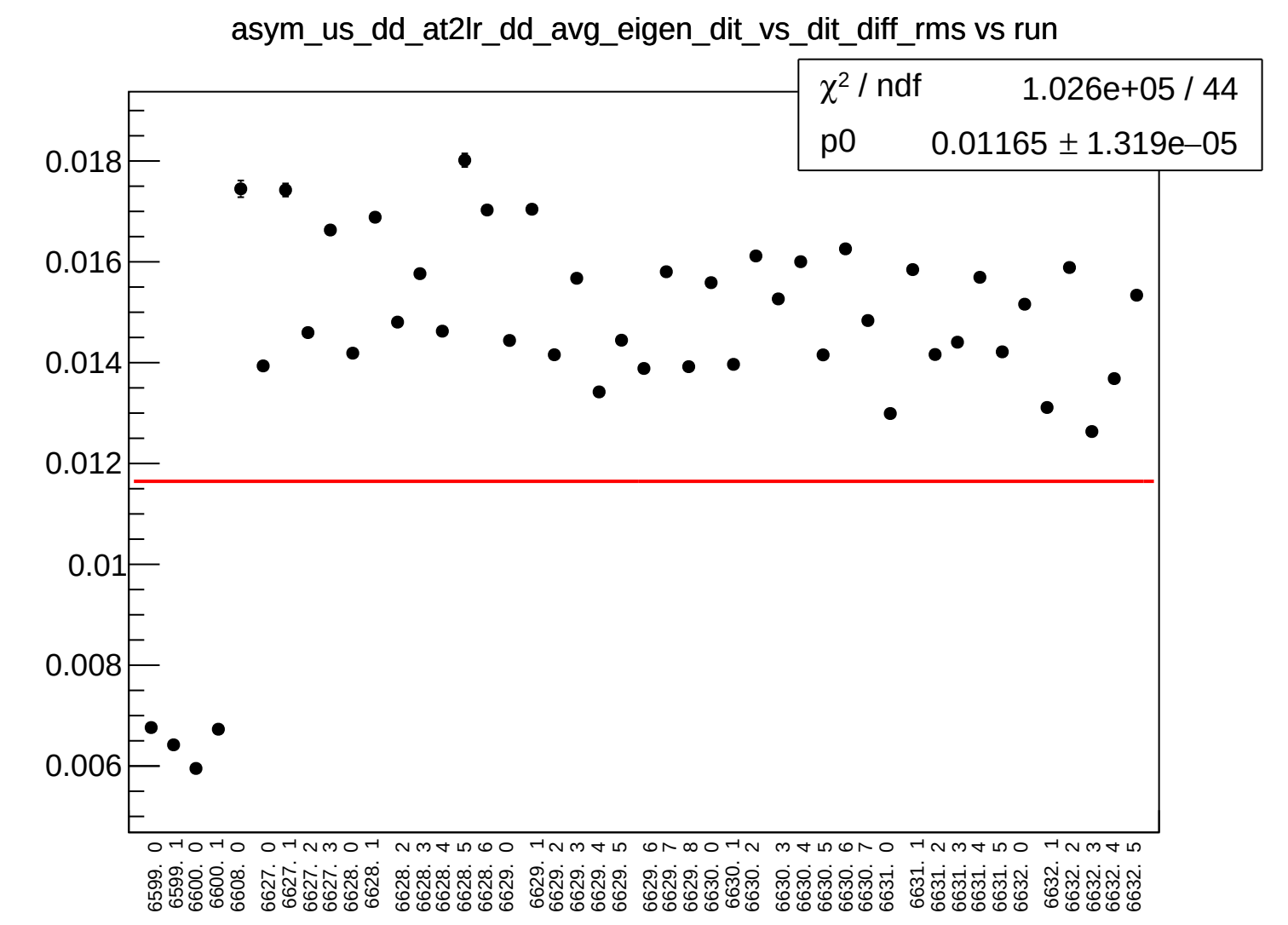

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.087e+04 / 44
p0 102 ± 0.1125
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

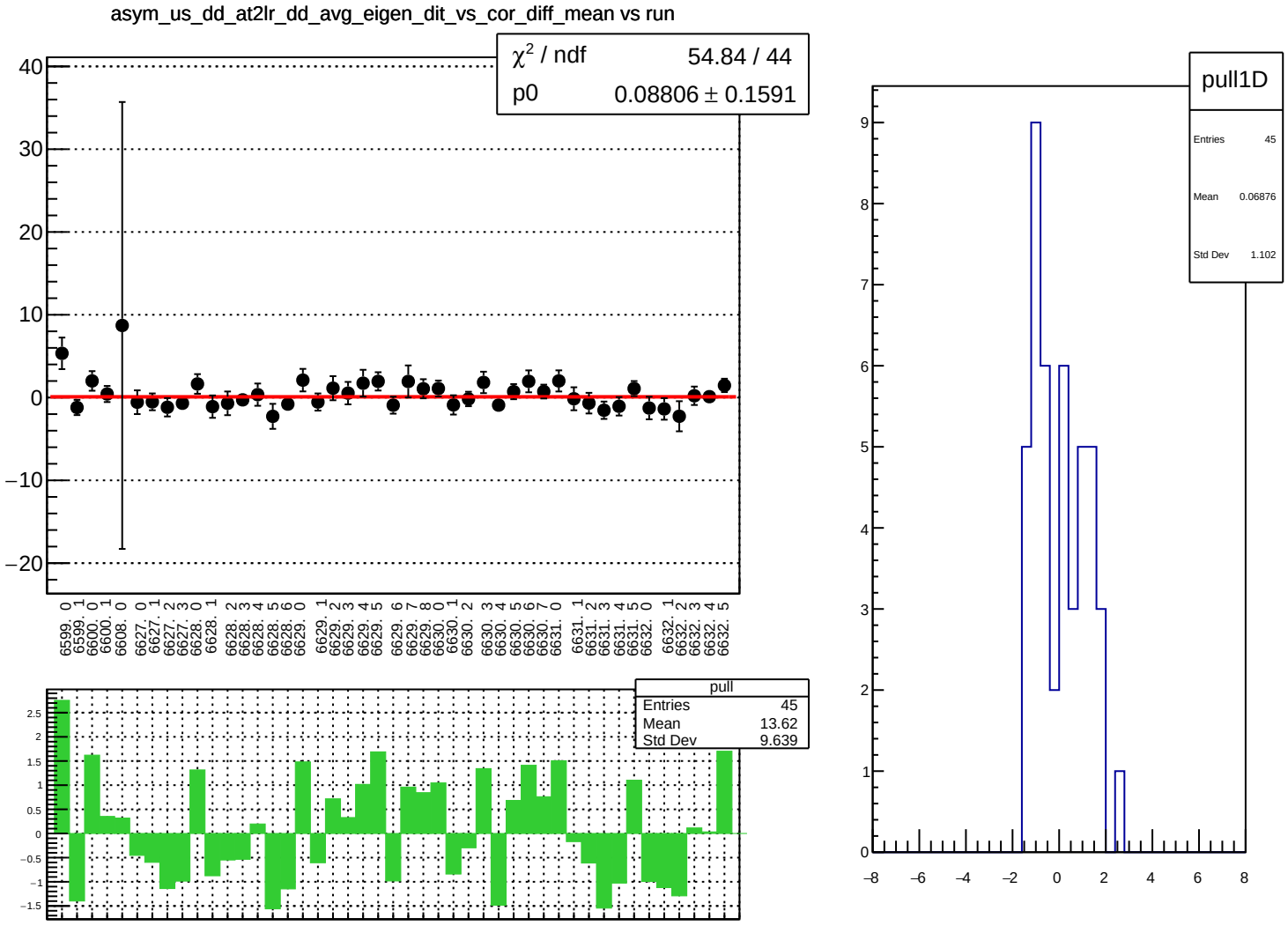

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 54.84 / 44
p0 0.08807 ± 0.1591
pull
Entries 45
Mean 13.62
Std Dev 9.633
pull1D
Entries 45
Mean 0.06877
Std Dev 1.102

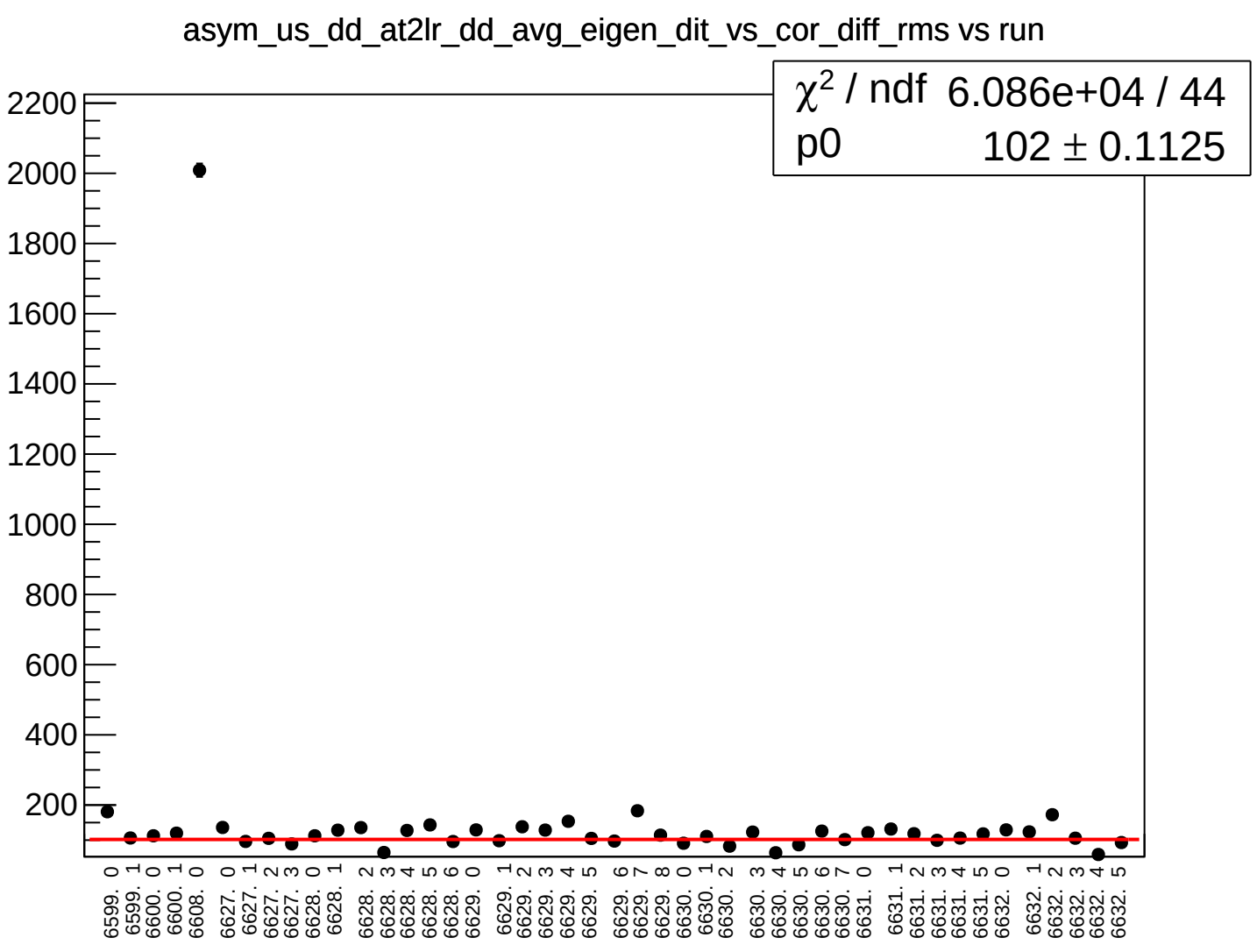

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.087e+04 / 44
p0 102 ± 0.1125
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

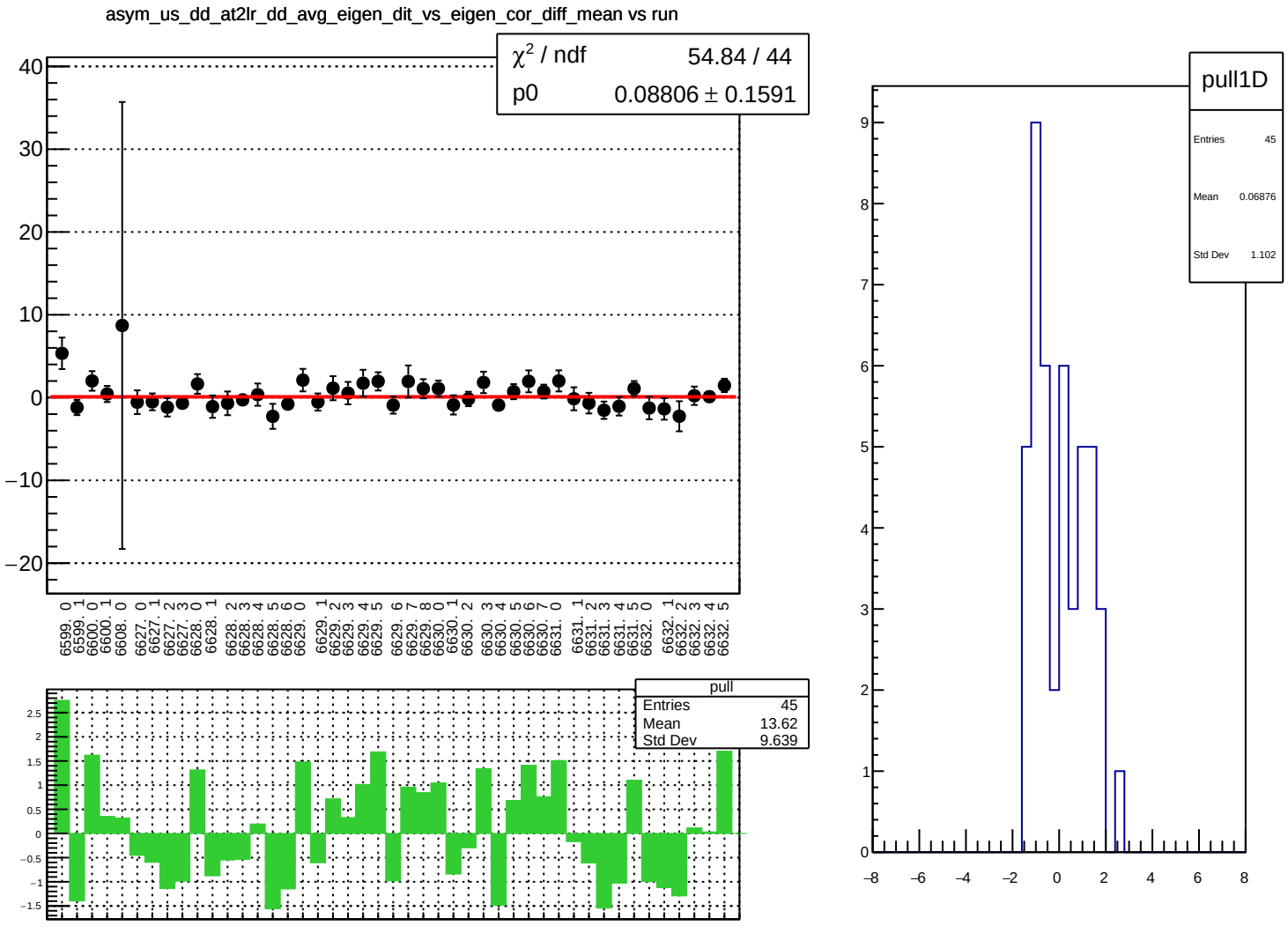

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 60.18 / 44
p0 1.279e−05 ± 1.865e−05
0.4
0.2
0
−0.2
−0.4
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 12.04
Std Dev 0
3
2
1
0
−1
−2

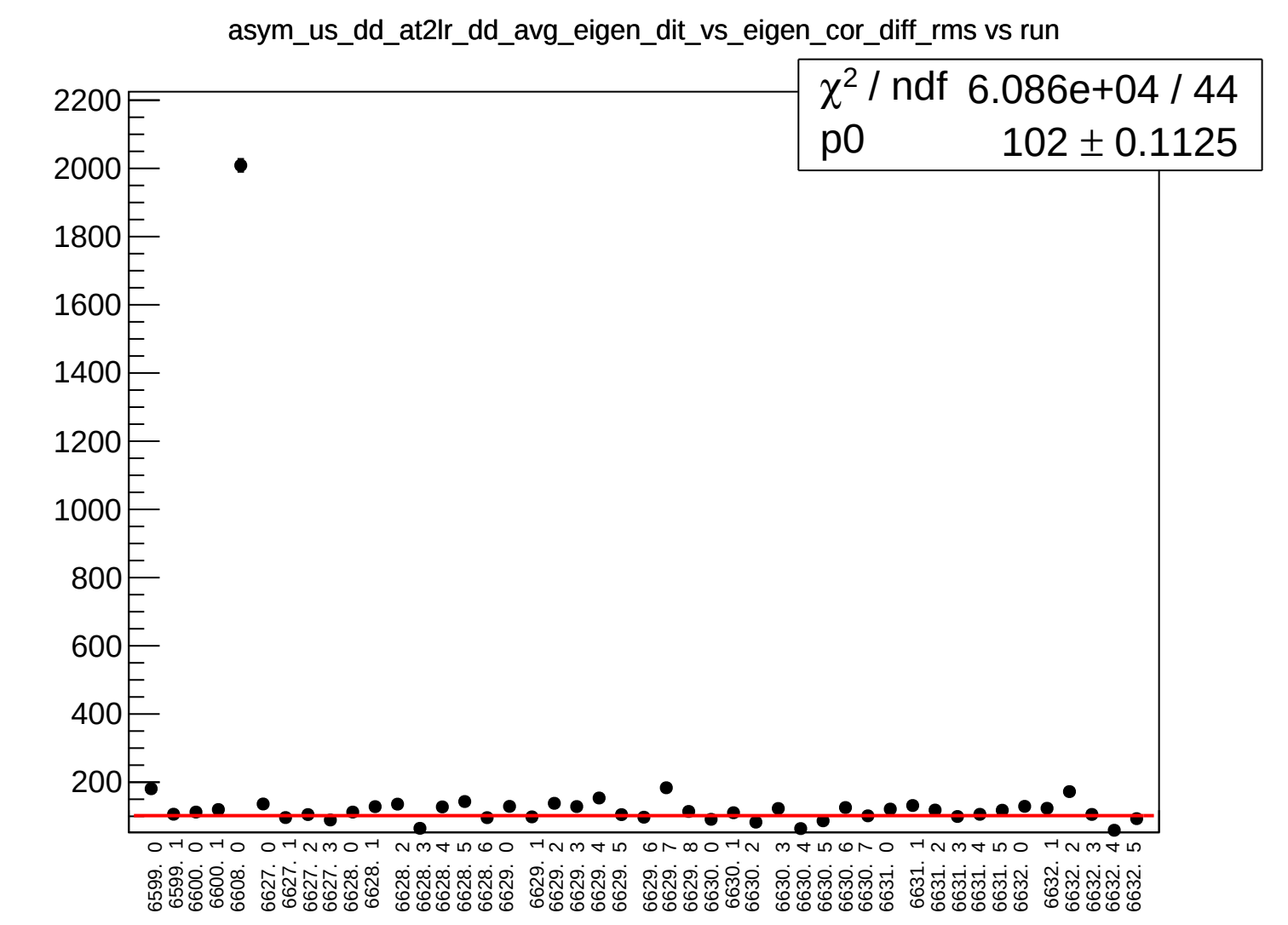

pull1D
Entries 45
Mean −0.1282
Std Dev 1.149
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

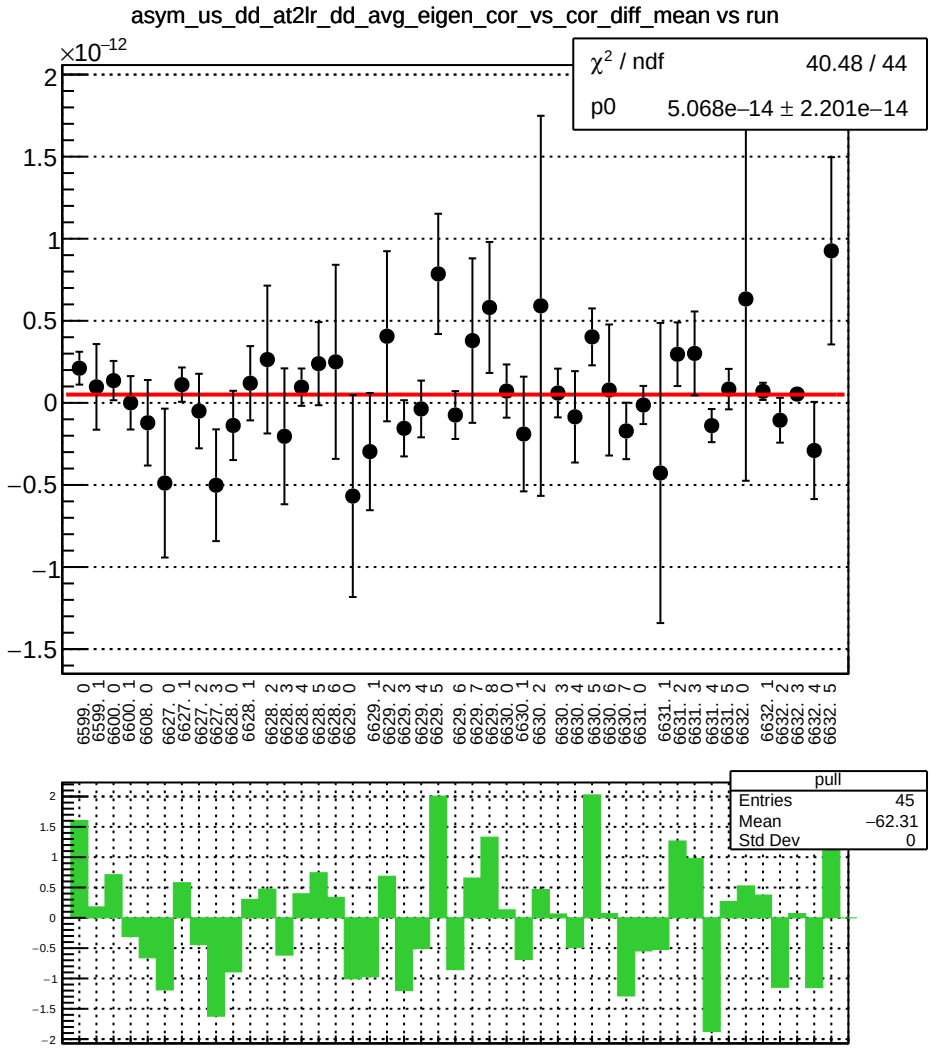

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.026e+05 / 44
p0 0.01165 ± 1.319e–05
0.018
0.016
0.014
0.012
0.01
0.008
0.006
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

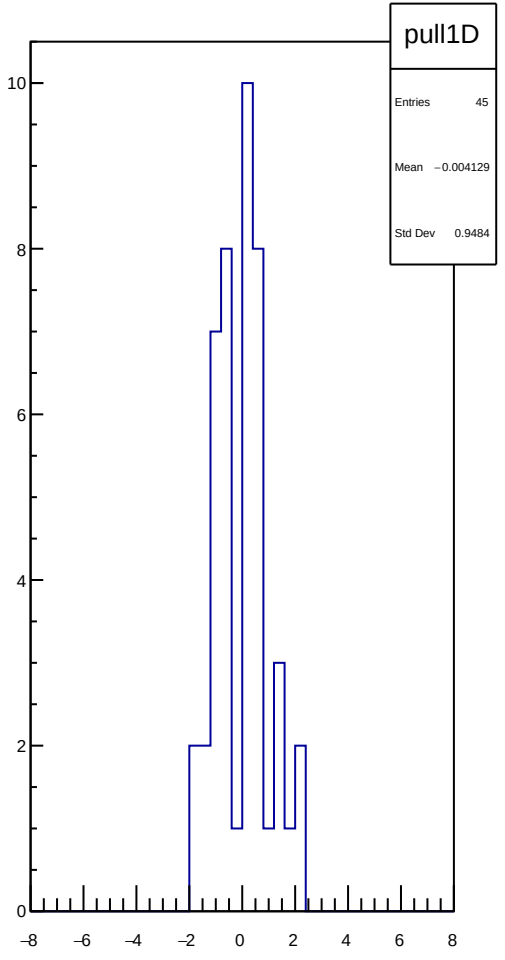

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 54.84 / 44
p0 0.08806 ± 0.1591
pull
Entries 45
Mean 13.62
Std Dev 9.639
pull1D
Entries 45
Mean 0.06876
Std Dev 1.102

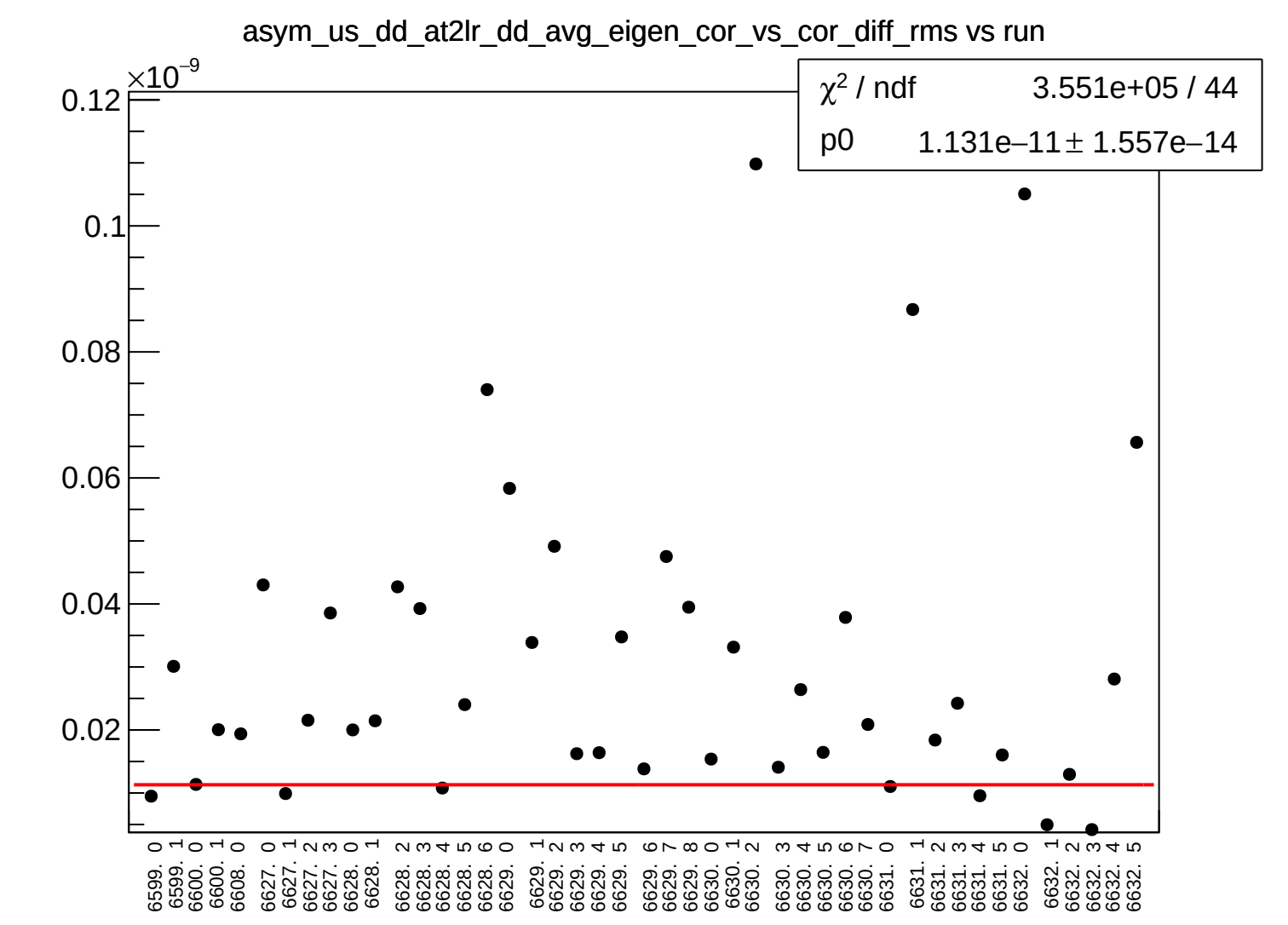

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.086e+04 / 44
p0 102 ± 0.1125
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

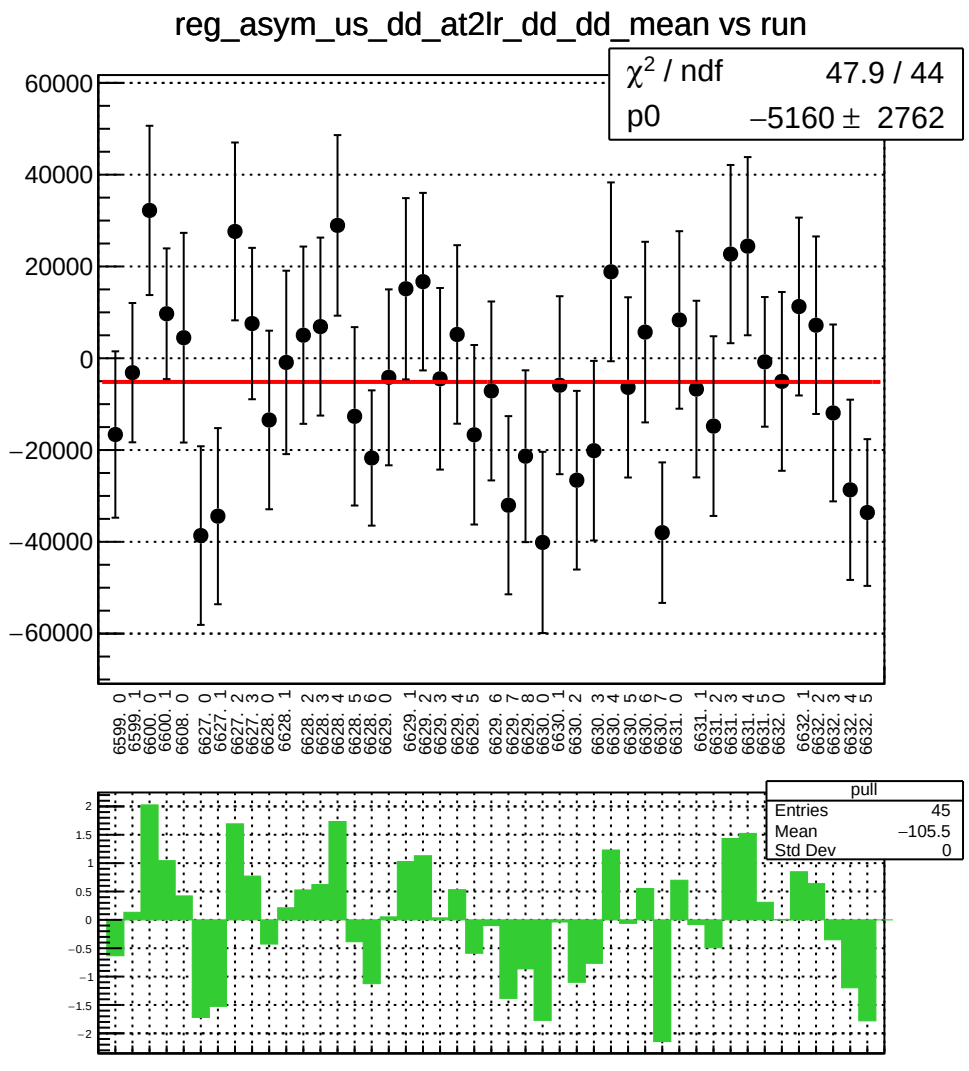

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 54.84 / 44
p0 0.08806 ± 0.1591
pull
Entries 45
Mean 13.62
Std Dev 9.639
pull1D
Entries 45
Mean 0.06876
Std Dev 1.102

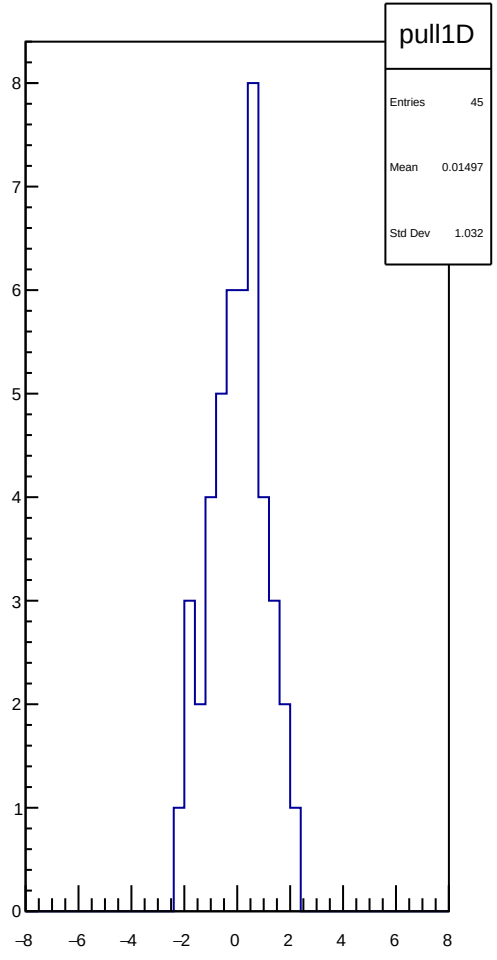

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.086e+04 / 44
p0 102 ± 0.1125
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

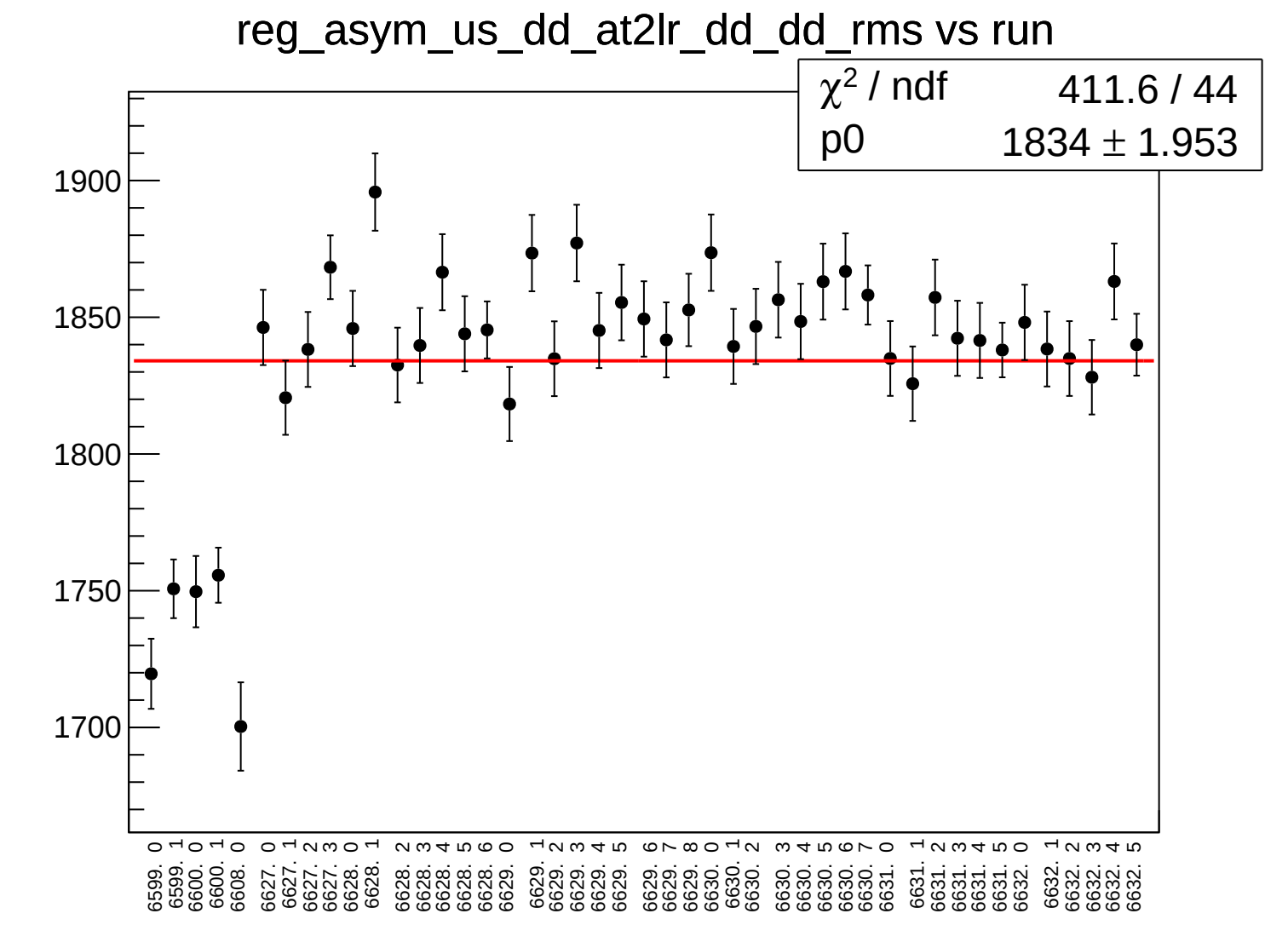

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 40.48 / 44
p0 5.068e−14 ± 2.201e−14
pull
Entries 45
Mean −62.31
Std Dev 0

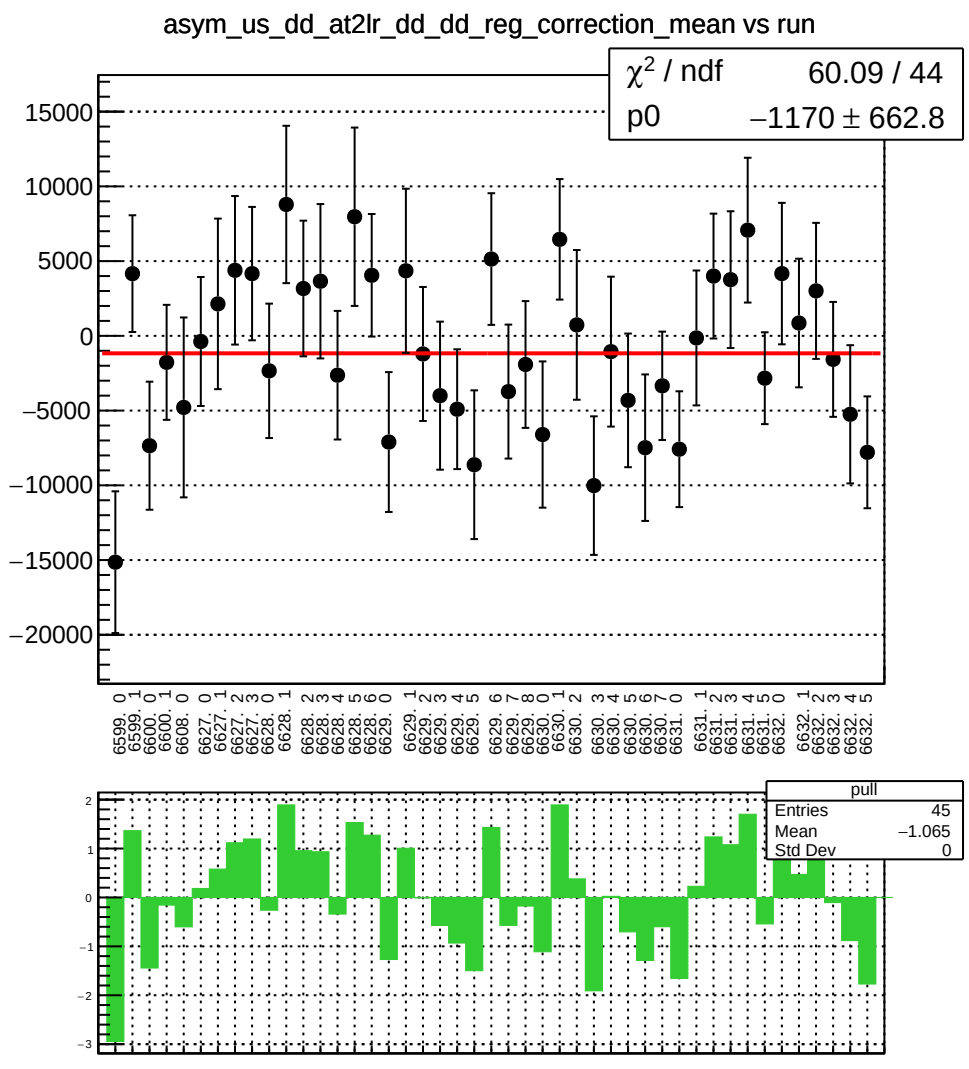

pull1D
Entries 45
Mean −0.004129
Std Dev 0.9484

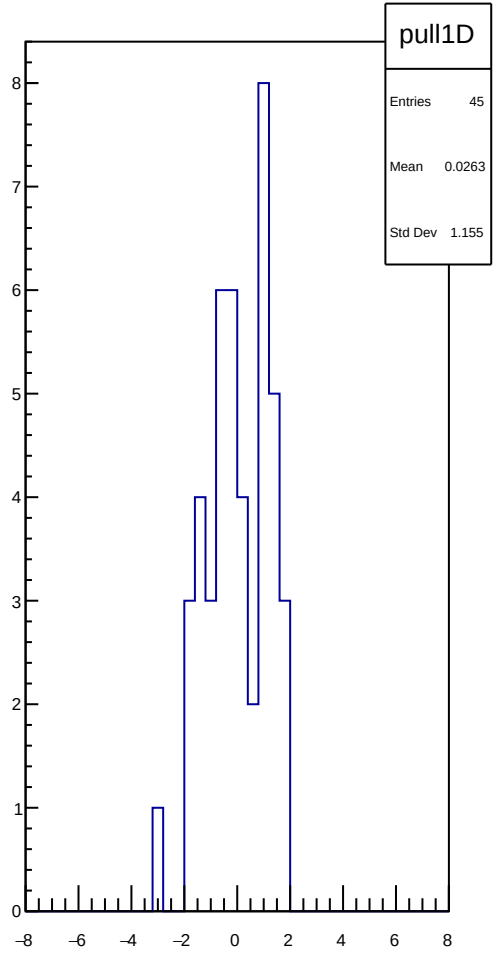

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.551e+05 / 44
p0 1.131e−11 ± 1.557e−14
0.12
0.1
0.08
0.06
0.04
0.02
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

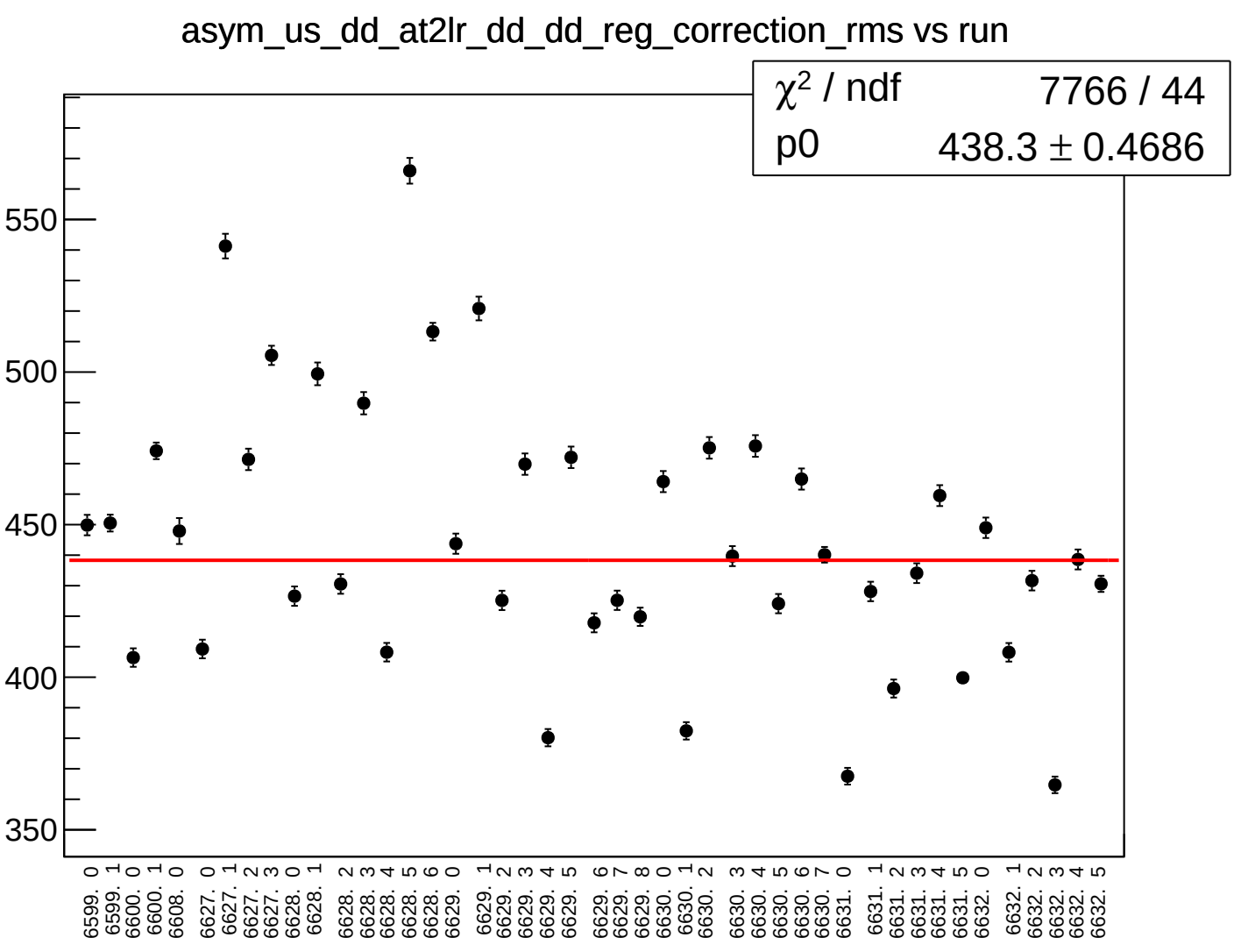

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 47.9 / 44
p0 −5160 ± 2762
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −105.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

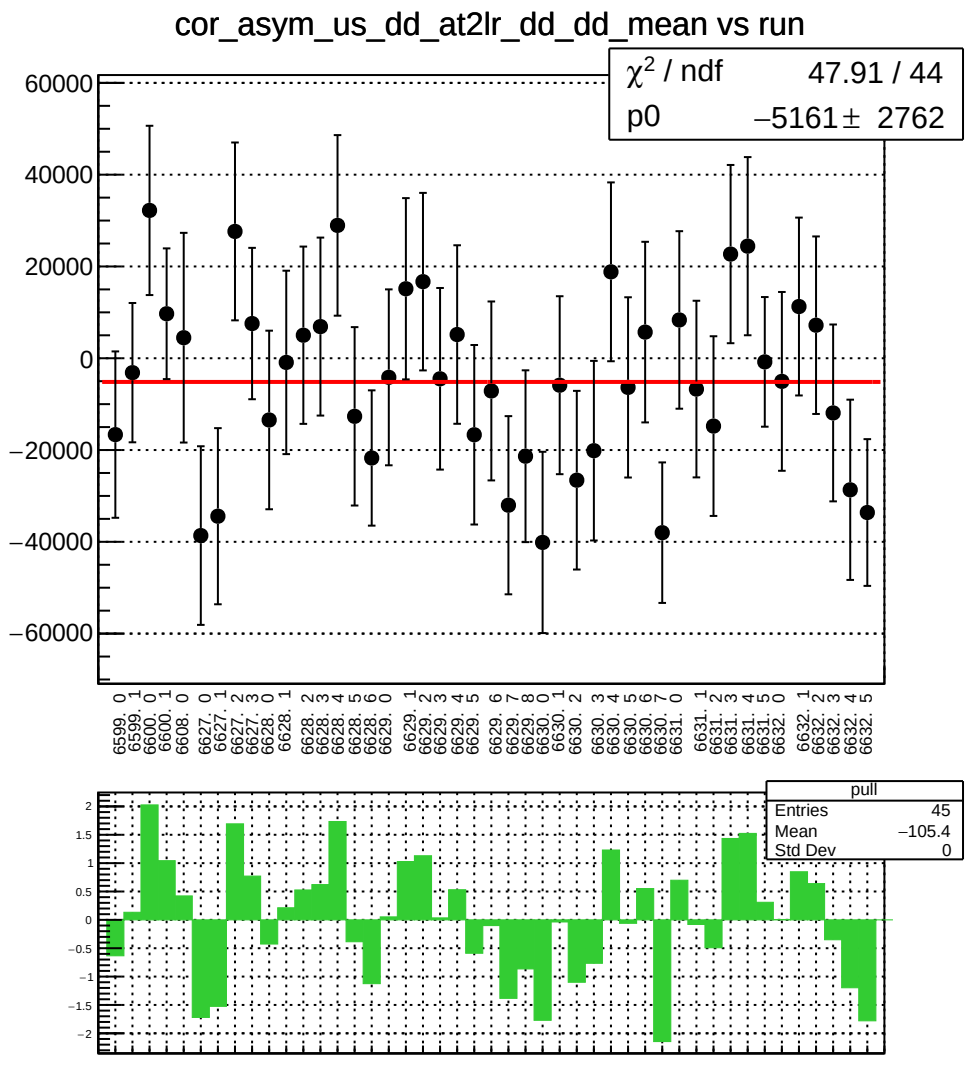

pull1D
Entries 45
Mean 0.01497
Std Dev 1.032
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

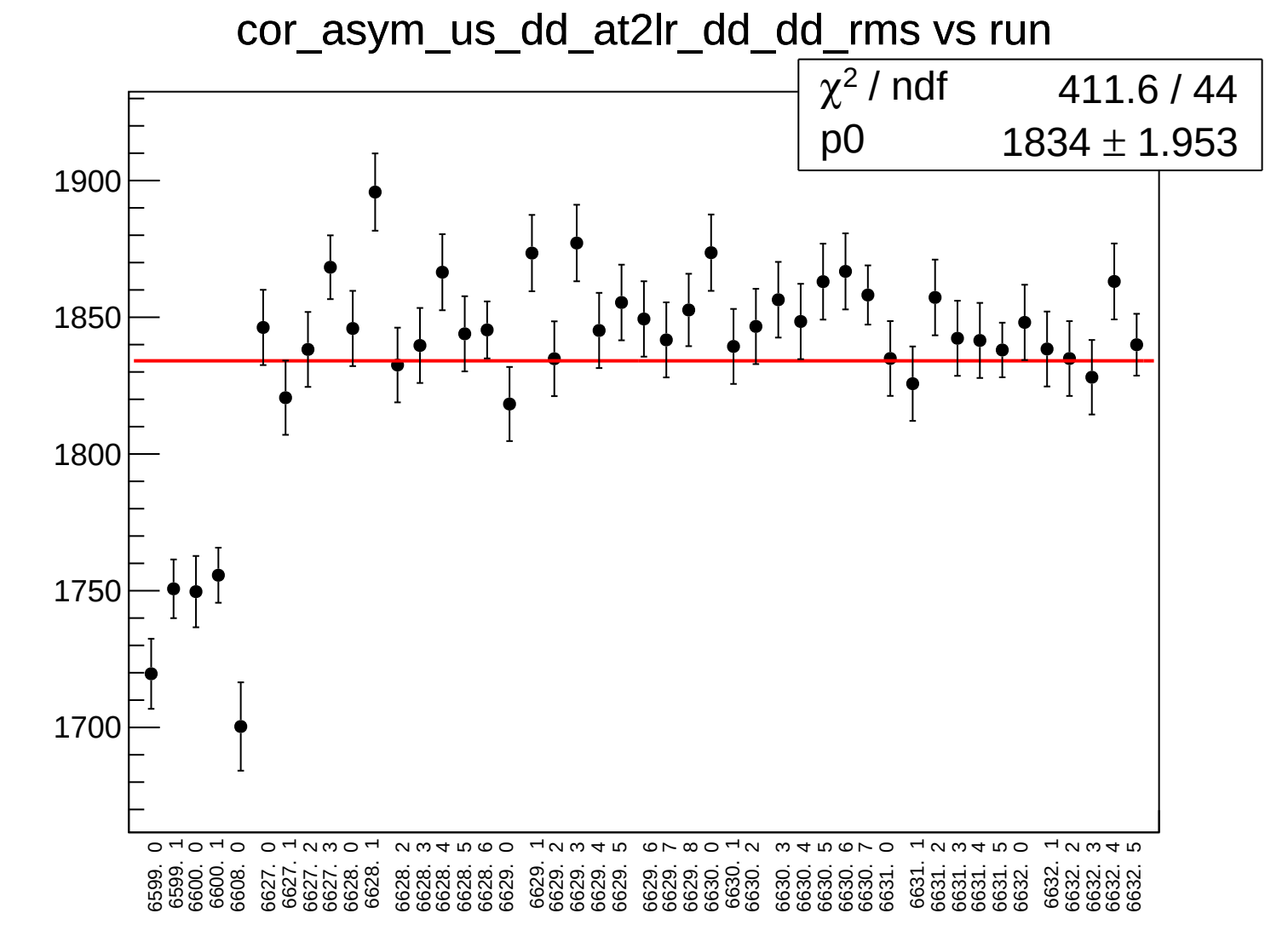

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 411.6 / 44
p0 1834 ± 1.953
1900
1850
1800
1750
1700
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 60.09 / 44
p0 −1170 ± 662.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −1.065
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.0263
Std Dev 1.155
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 7766 / 44
p0 438.3 ± 0.4686
550
500
450
400
350
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 47.91 / 44
p0 −5161 ± 2762
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −105.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01497
Std Dev 1.032
8
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 411.6 / 44
p0 1834 ± 1.953
1900
1850
1800
1750
1700
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
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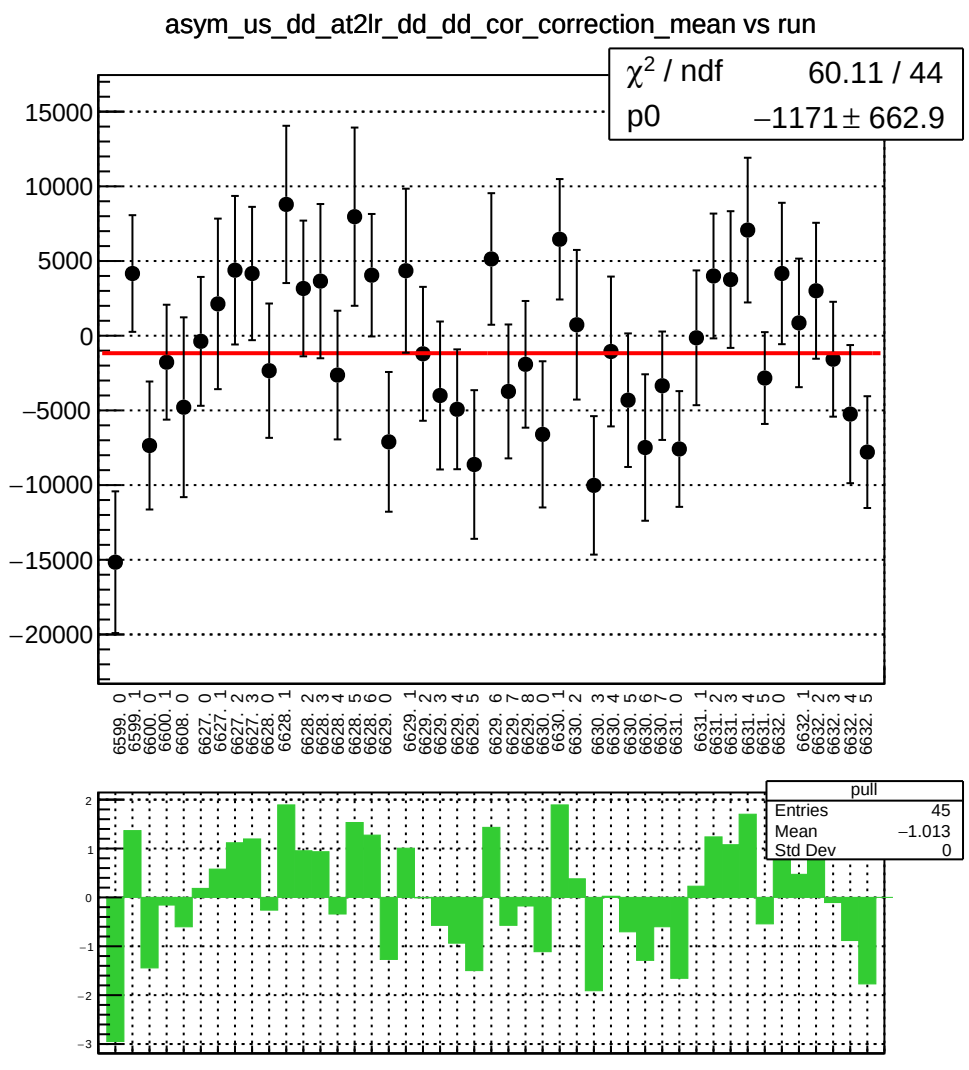
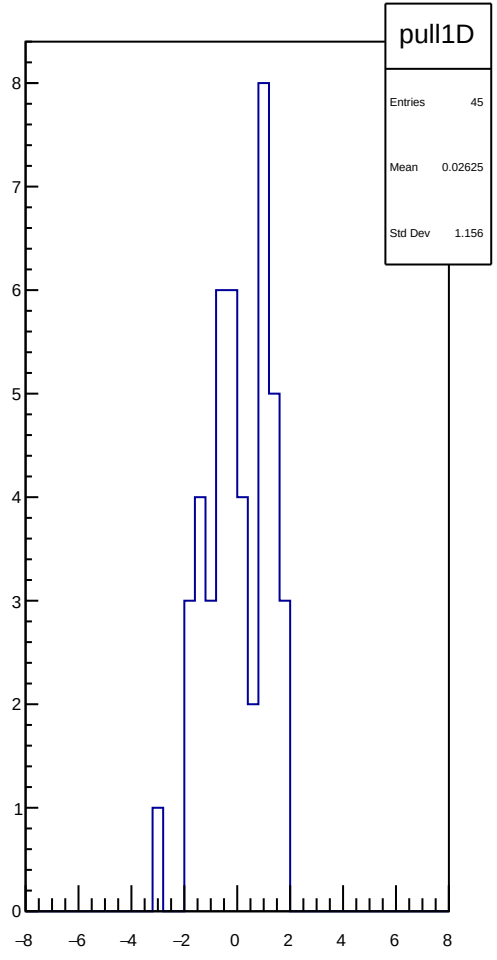
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 60.11 / 44
p0 −1171 ± 662.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −1.013
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.02625
Std Dev 1.156
8
7
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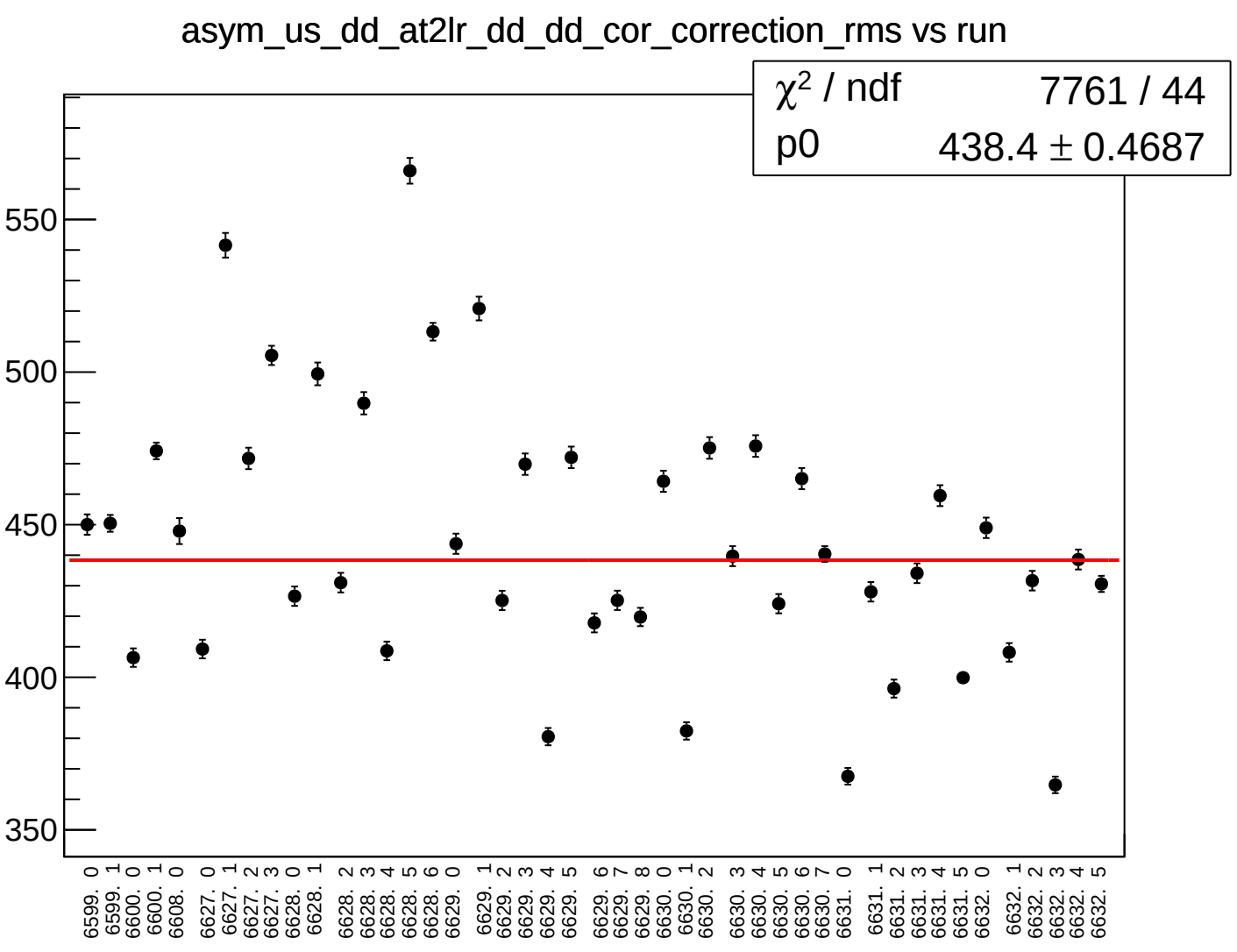
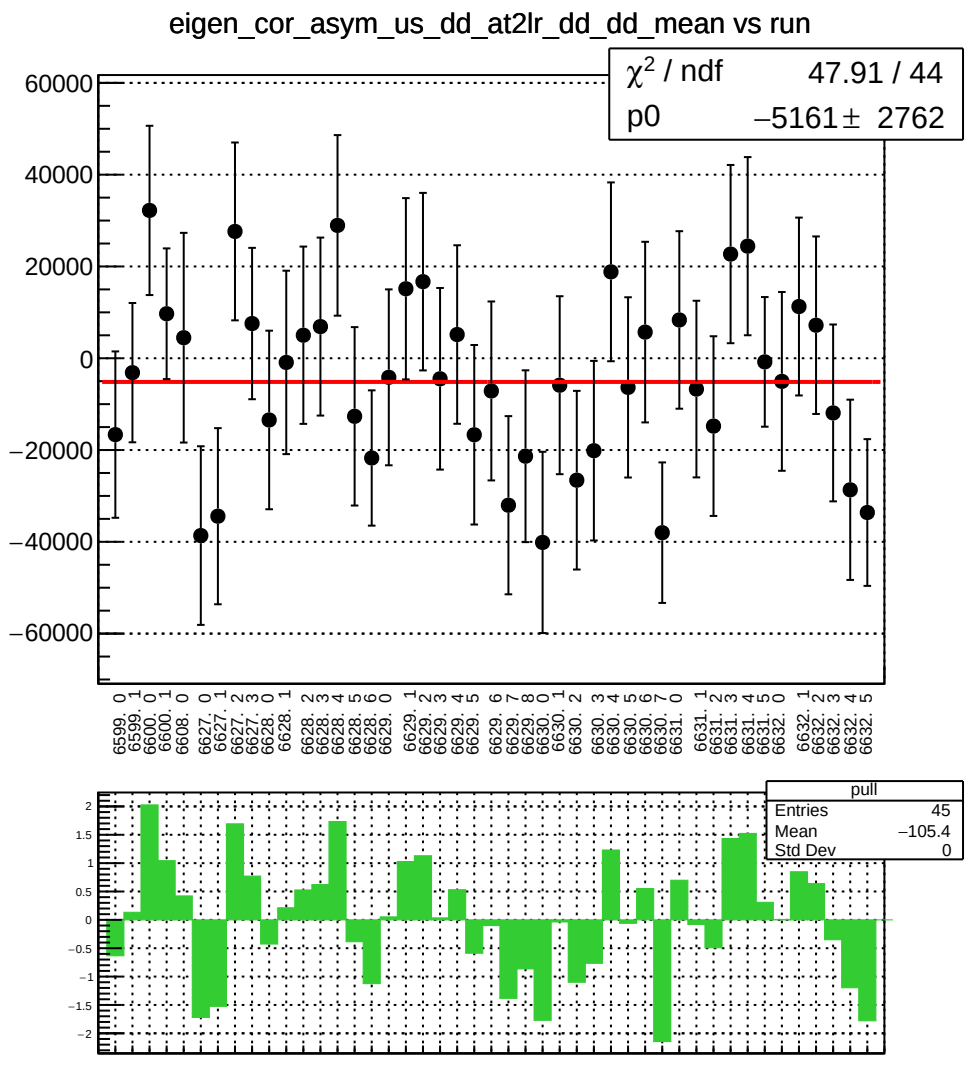
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 7761 / 44
p0 438.4 ± 0.4687
550
500
450
400
350
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 47.91 / 44
p0 −5161 ± 2762
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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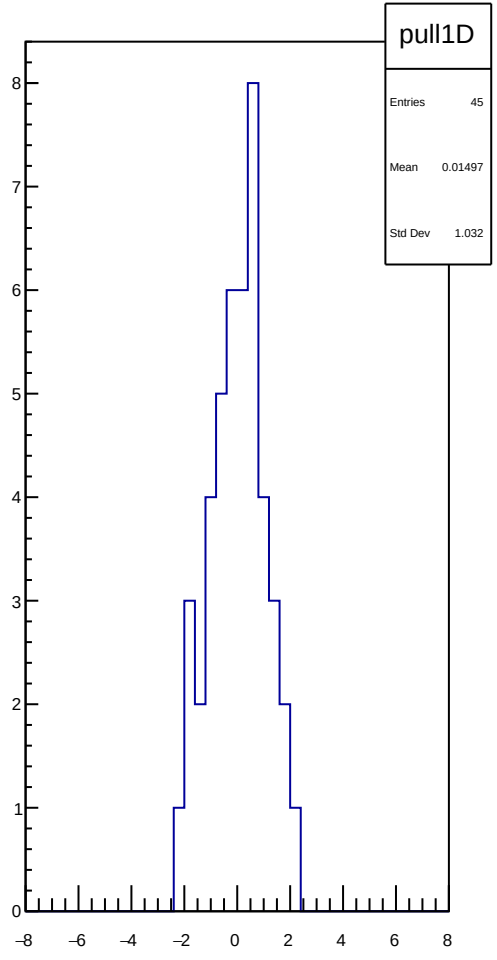
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −105.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.01497
Std Dev 1.032
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7
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1
0
−8
−6
−4
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0
2
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6
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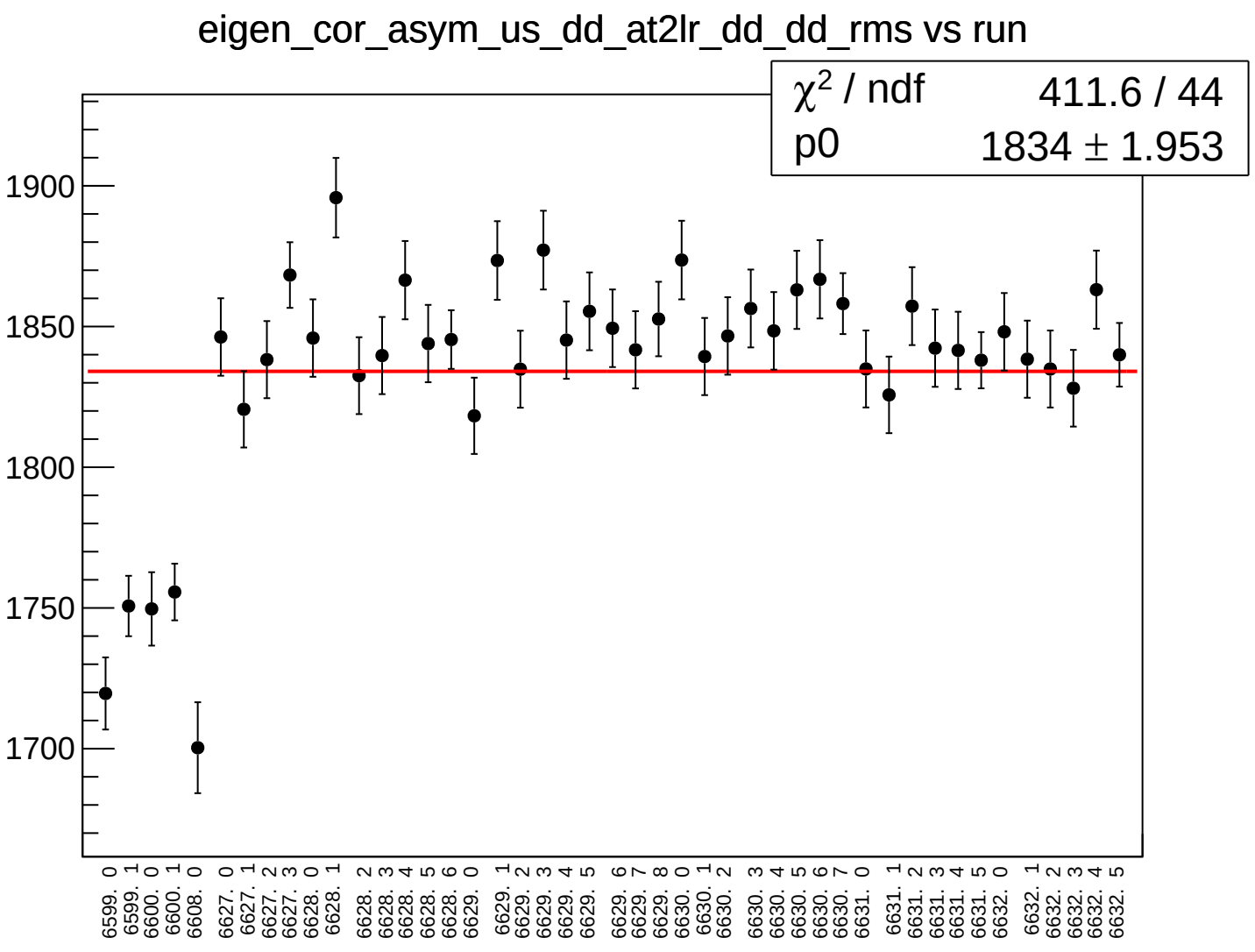
eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 411.6 / 44
p0 1834 ± 1.953
1900
1850
1800
1750
1700
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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6628. 5
6628. 6
6629. 0
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6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
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6631. 0
6631. 1
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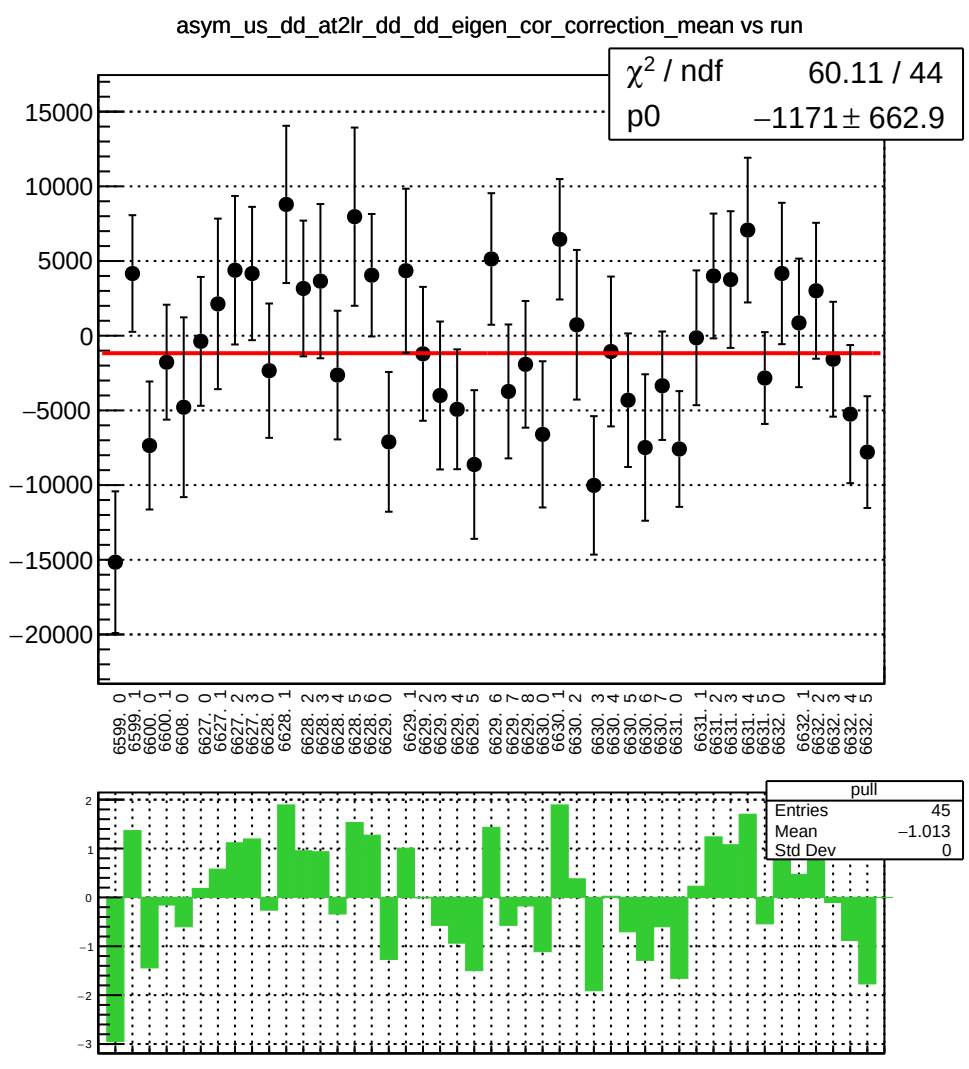
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 60.11 / 44
p0 −1171 ± 662.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 2
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6628. 0
6628. 1
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6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −1.013
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.02625
Std Dev 1.156
8
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5
4
3
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1
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−4
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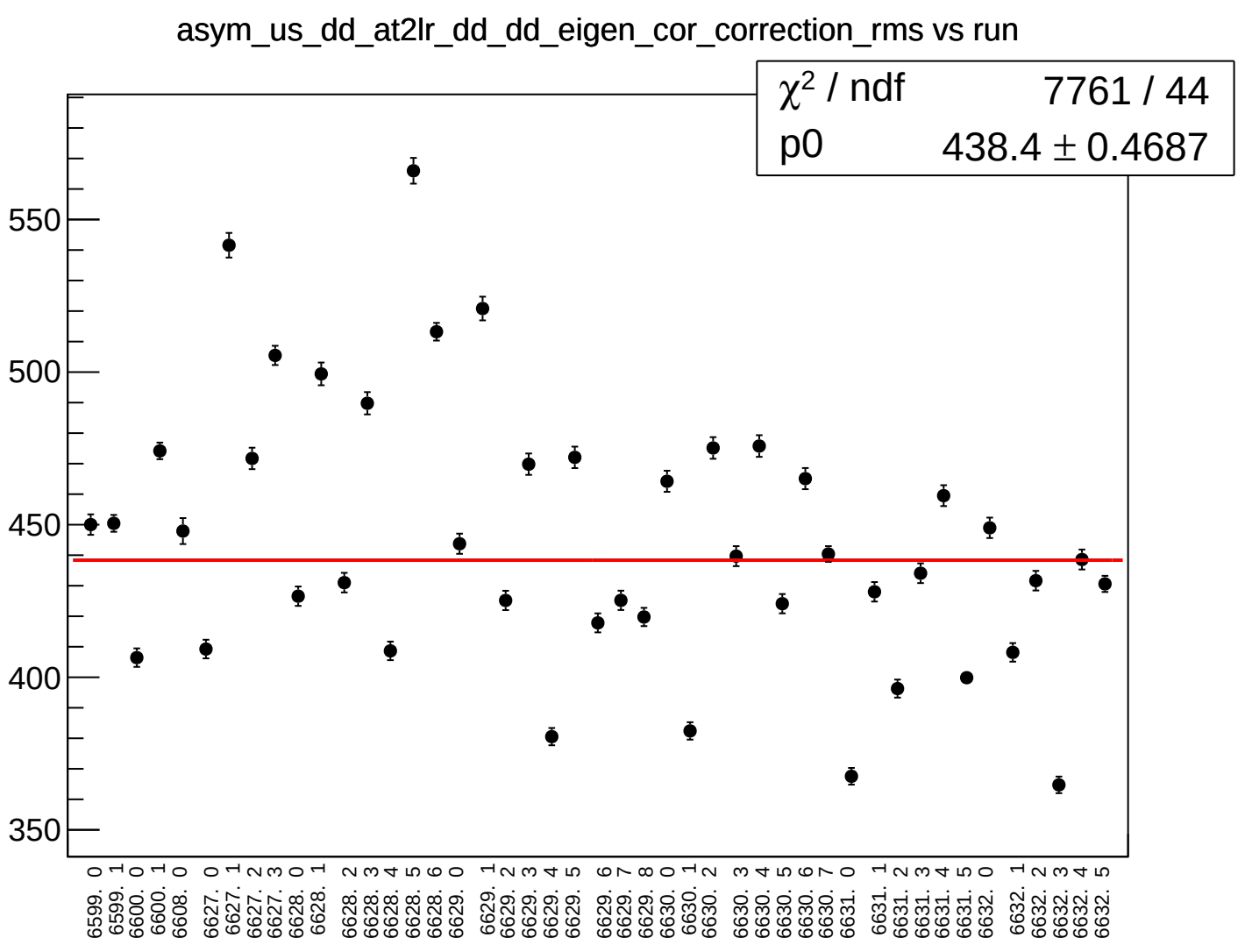
6
8


asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 7761 / 44
p0 438.4 ± 0.4687
550
500
450
400
350
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6628. 6
6629. 0
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6629. 4
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6629. 6
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6629. 8
6630. 0
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6630. 3
6630. 4
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6631. 1
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6632. 0
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6632. 2
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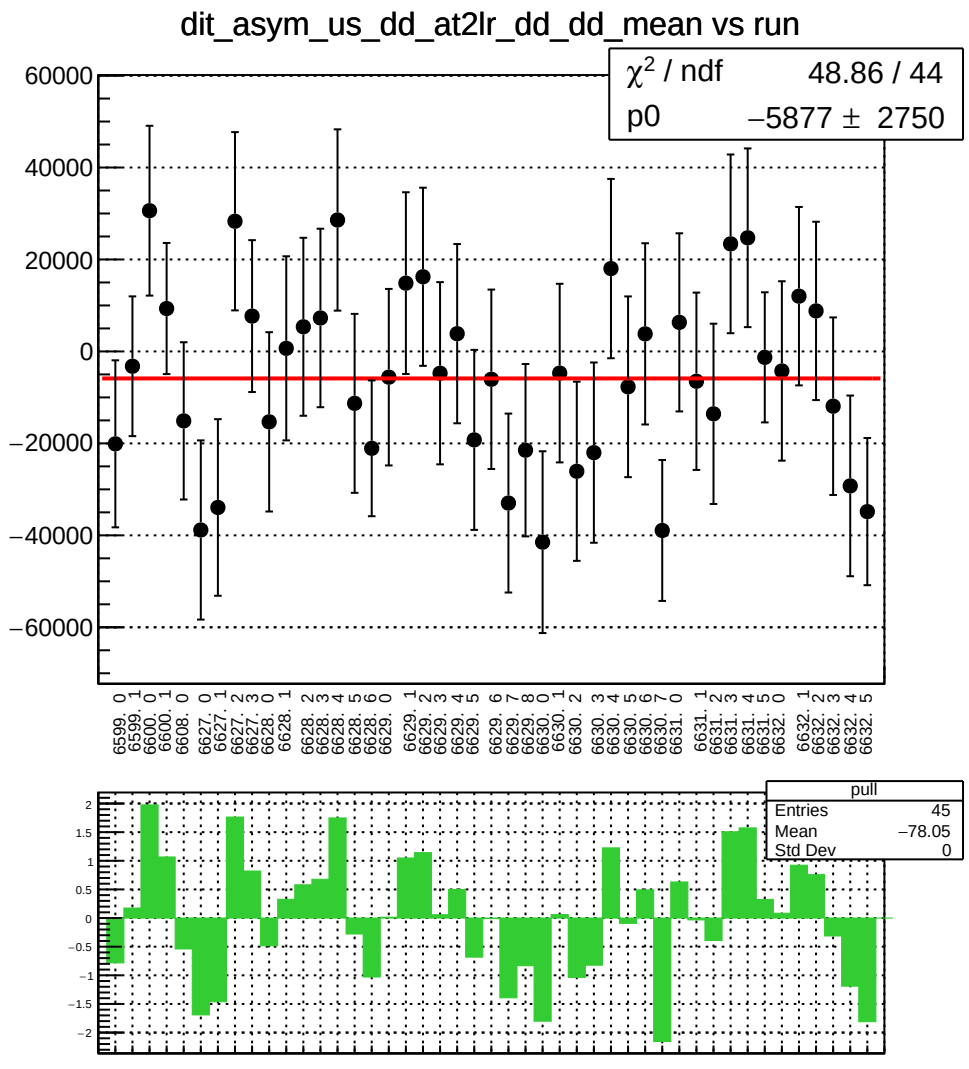
6632. 4
6632. 5


dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 48.86 / 44
p0 −5877 ± 2750
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
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6628. 4
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6630. 0
6630. 1
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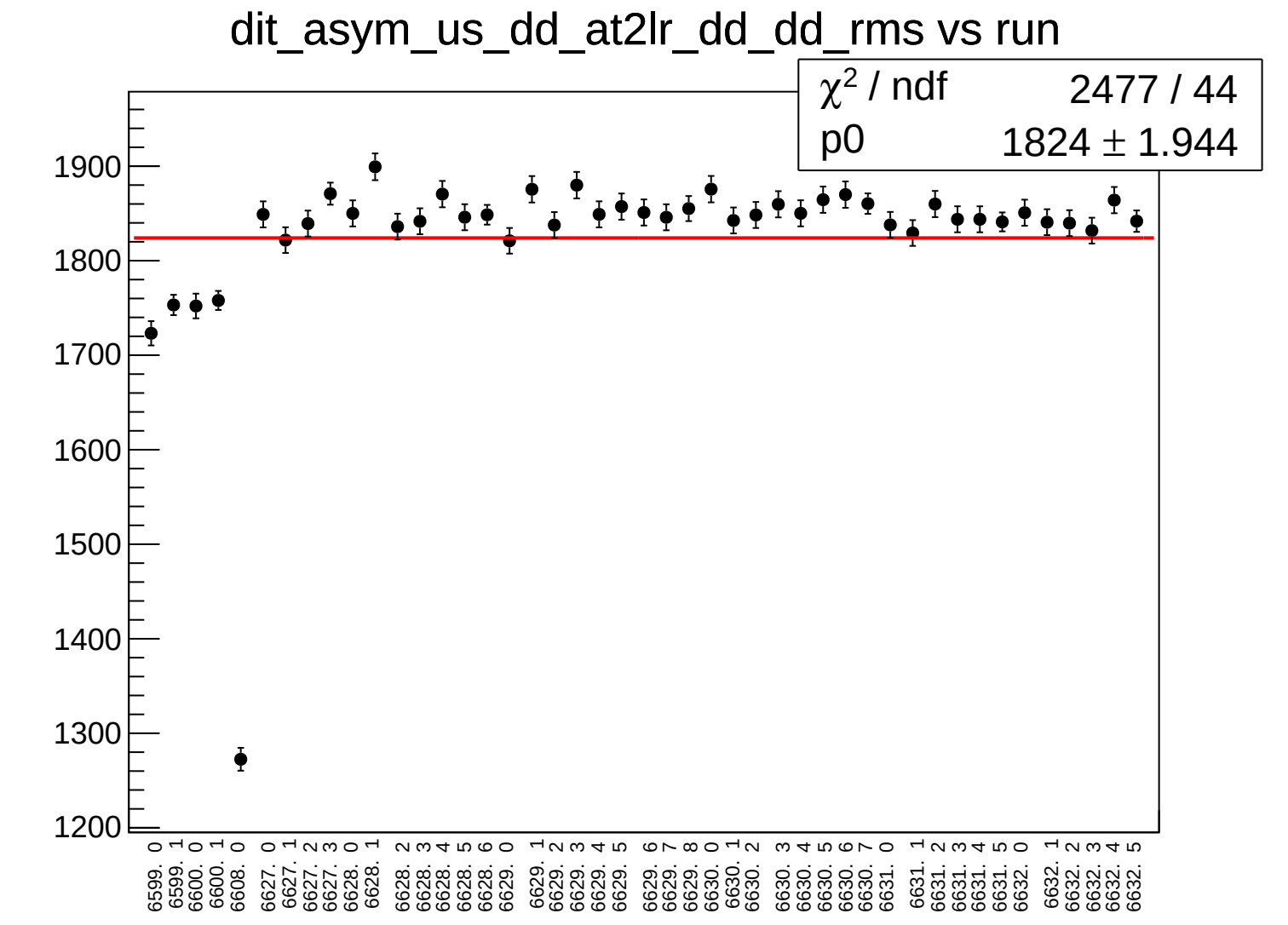
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −78.05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01431
Std Dev 1.042
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 2477 / 44
p0 1824 ± 1.944
1900
1800
1700
1600
1500
1400
1300
1200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6628. 4
6628. 5
6628. 6
6629. 0
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
6631. 5
6632. 0
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6632. 2
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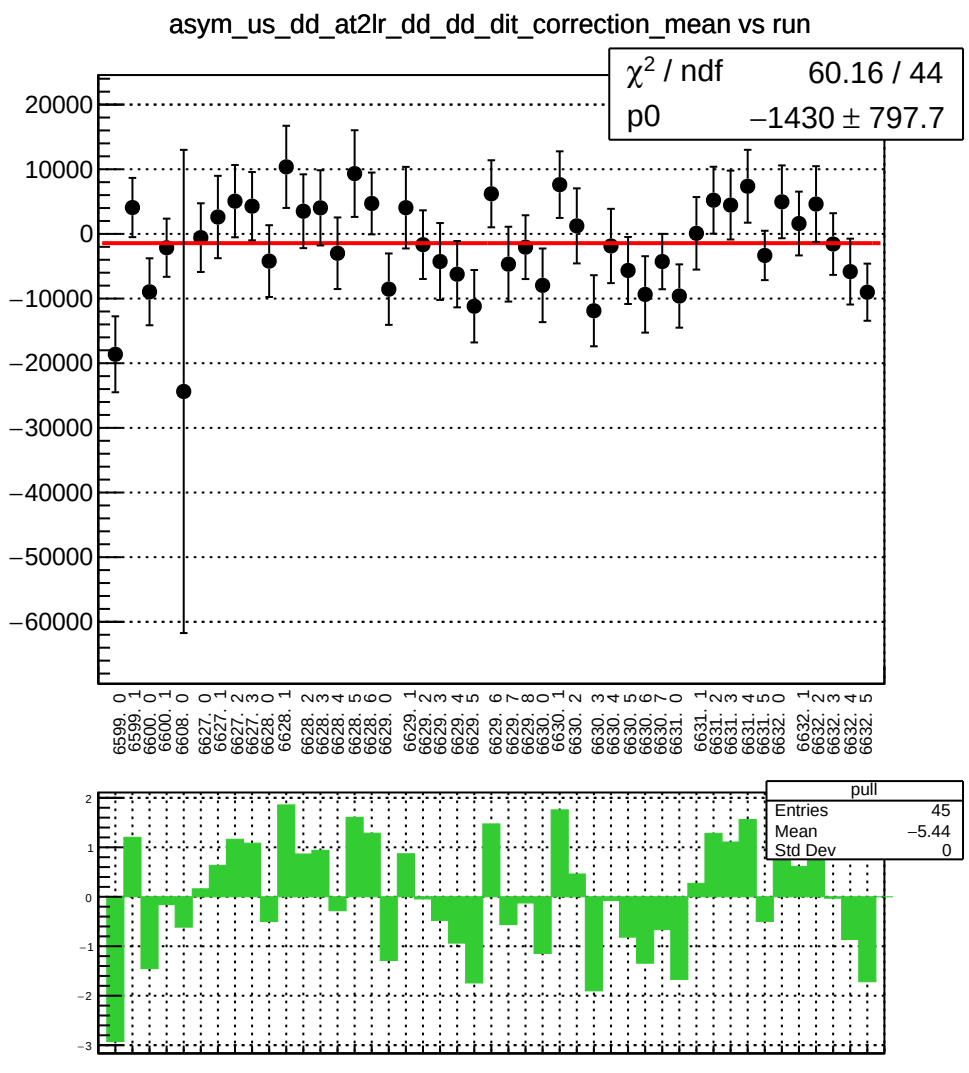
6632. 4
6632. 5


asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 60.16 / 44
p0 −1430 ± 797.7
20000
10000
0
−10000
−20000
−30000
−40000
−50000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
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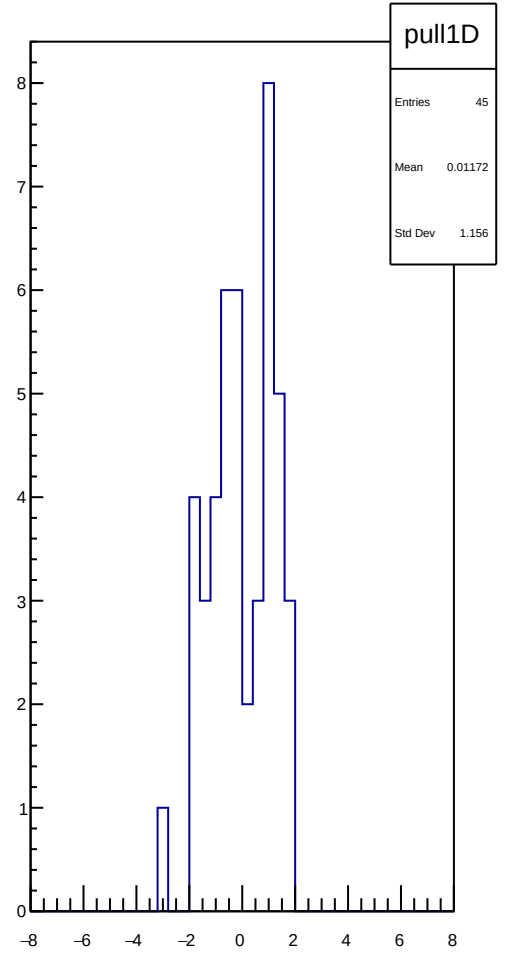
6632. 5
pull
Entries 45
Mean −5.44
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.01172
Std Dev 1.156
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5
4
3
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1
0
−8
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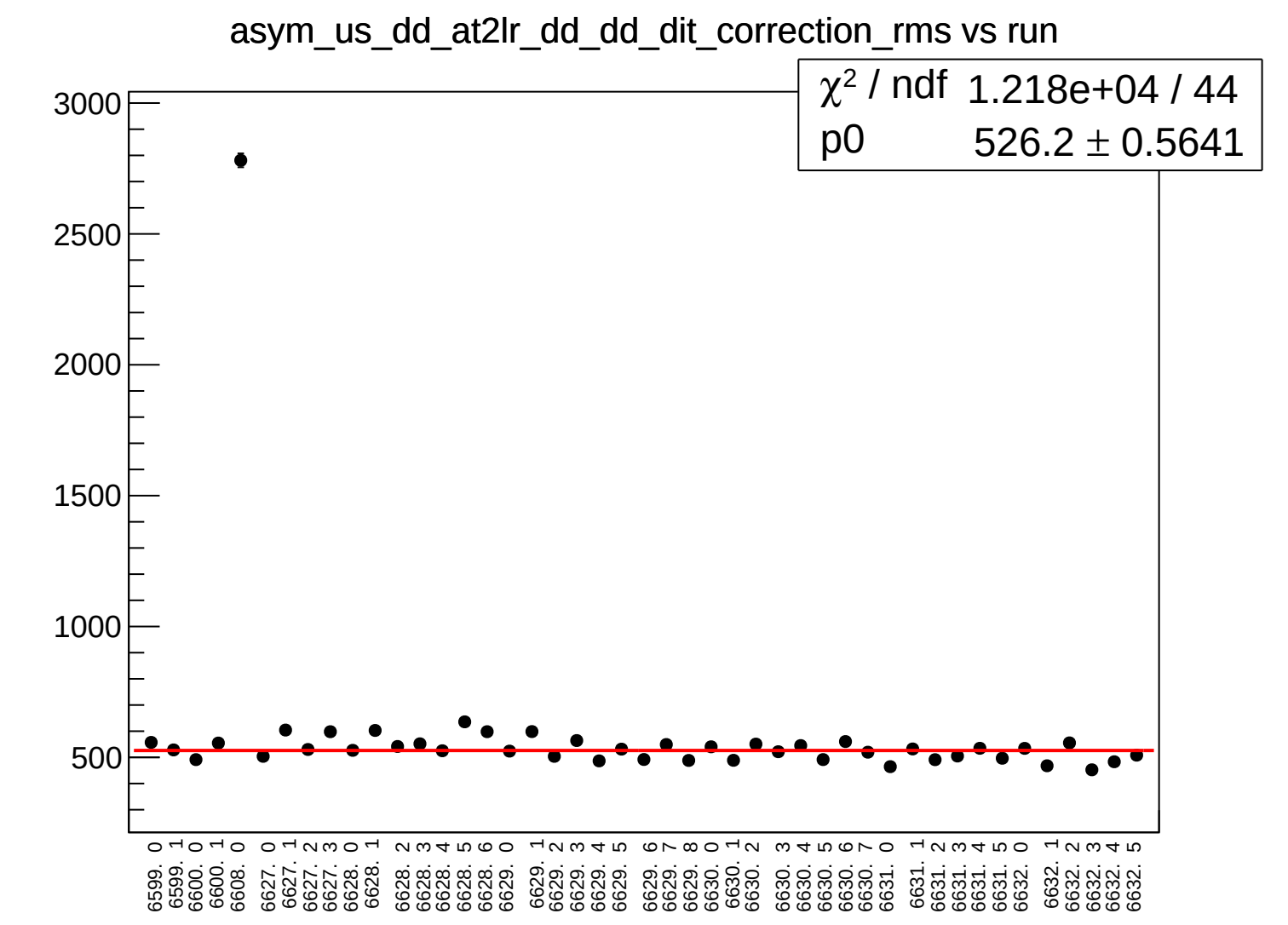
−4
−2
0
2
4
6
8


asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.218e+04 / 44
p0 526.2 ± 0.5641
3000
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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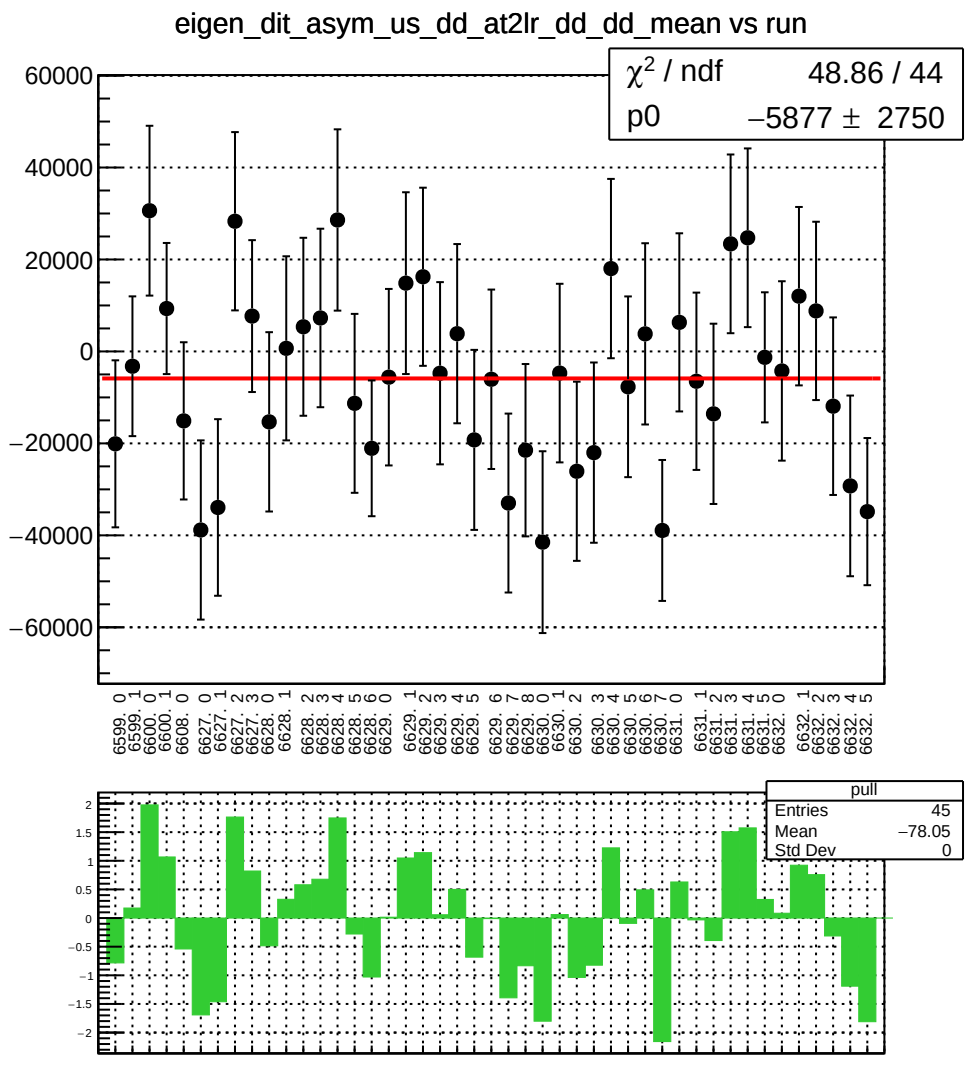
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 48.86 / 44
p0 −5877 ± 2750
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 6
6629. 7
6629. 8
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6631. 2
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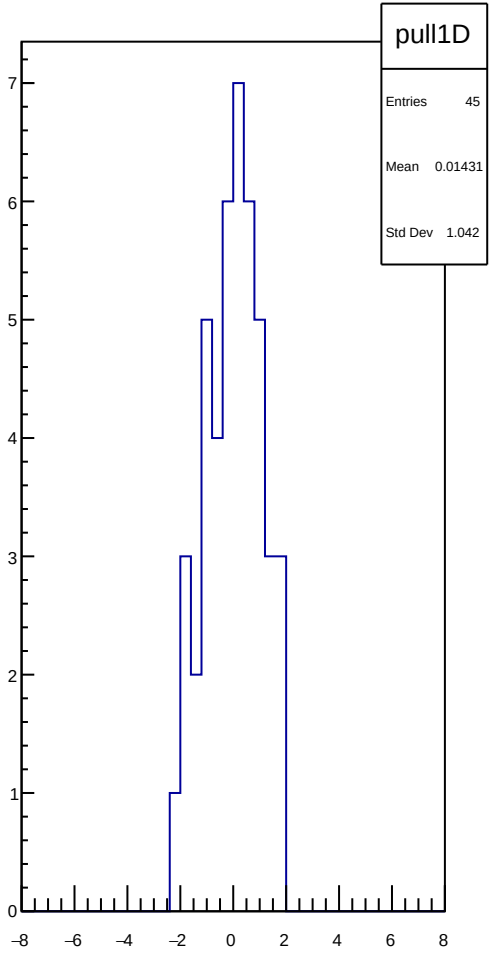
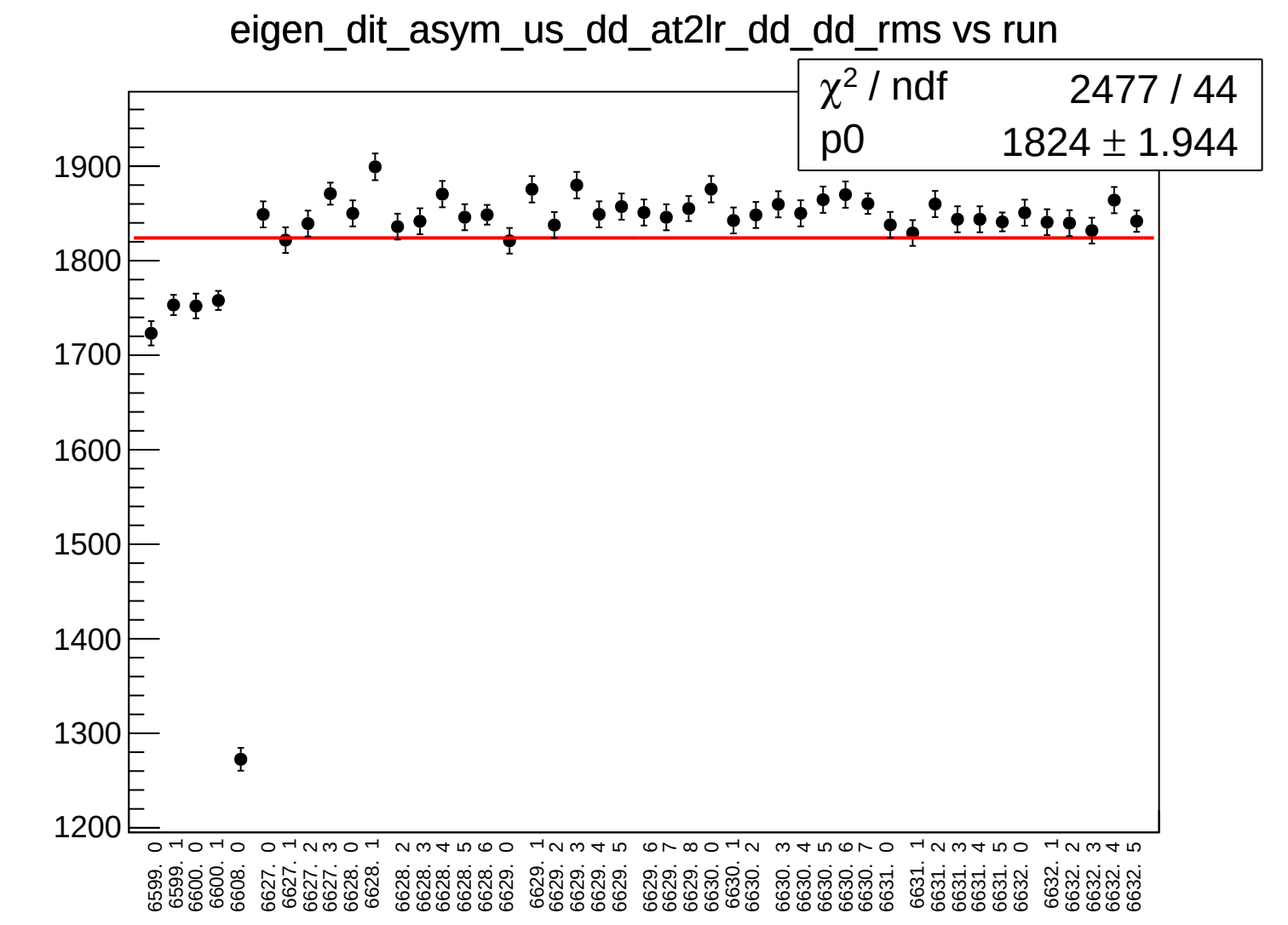
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −78.05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.01431
Std Dev 1.042
7
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 2477 / 44
p0 1824 ± 1.944
1900
1800
1700
1600
1500
1400
1300
1200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
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6629. 8
6630. 0
6630. 1
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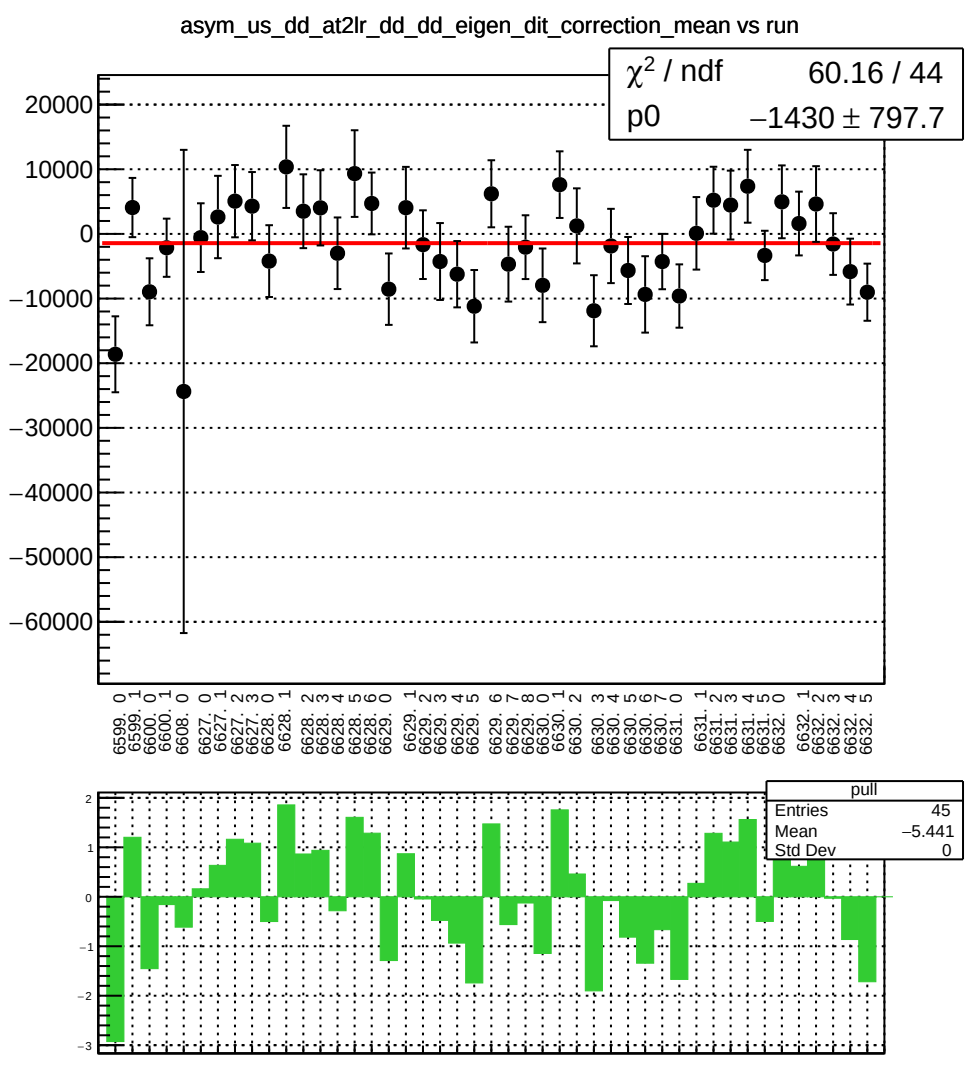
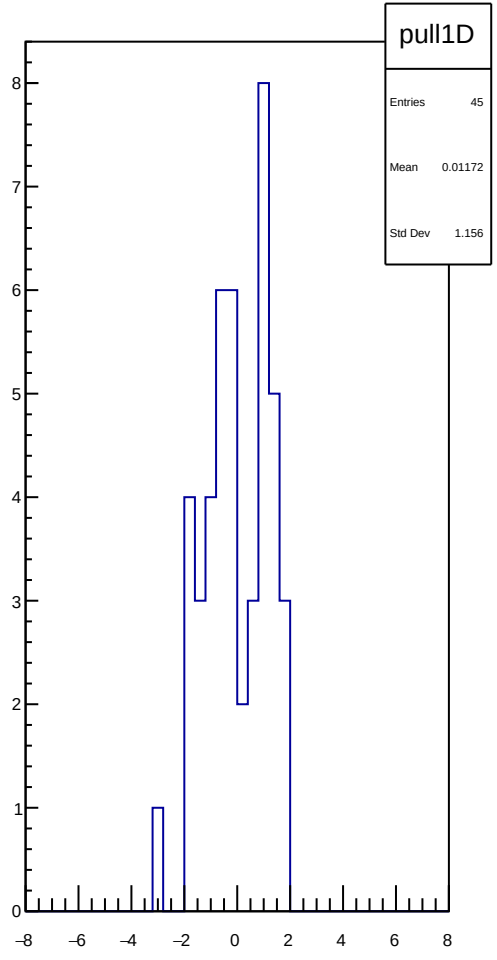
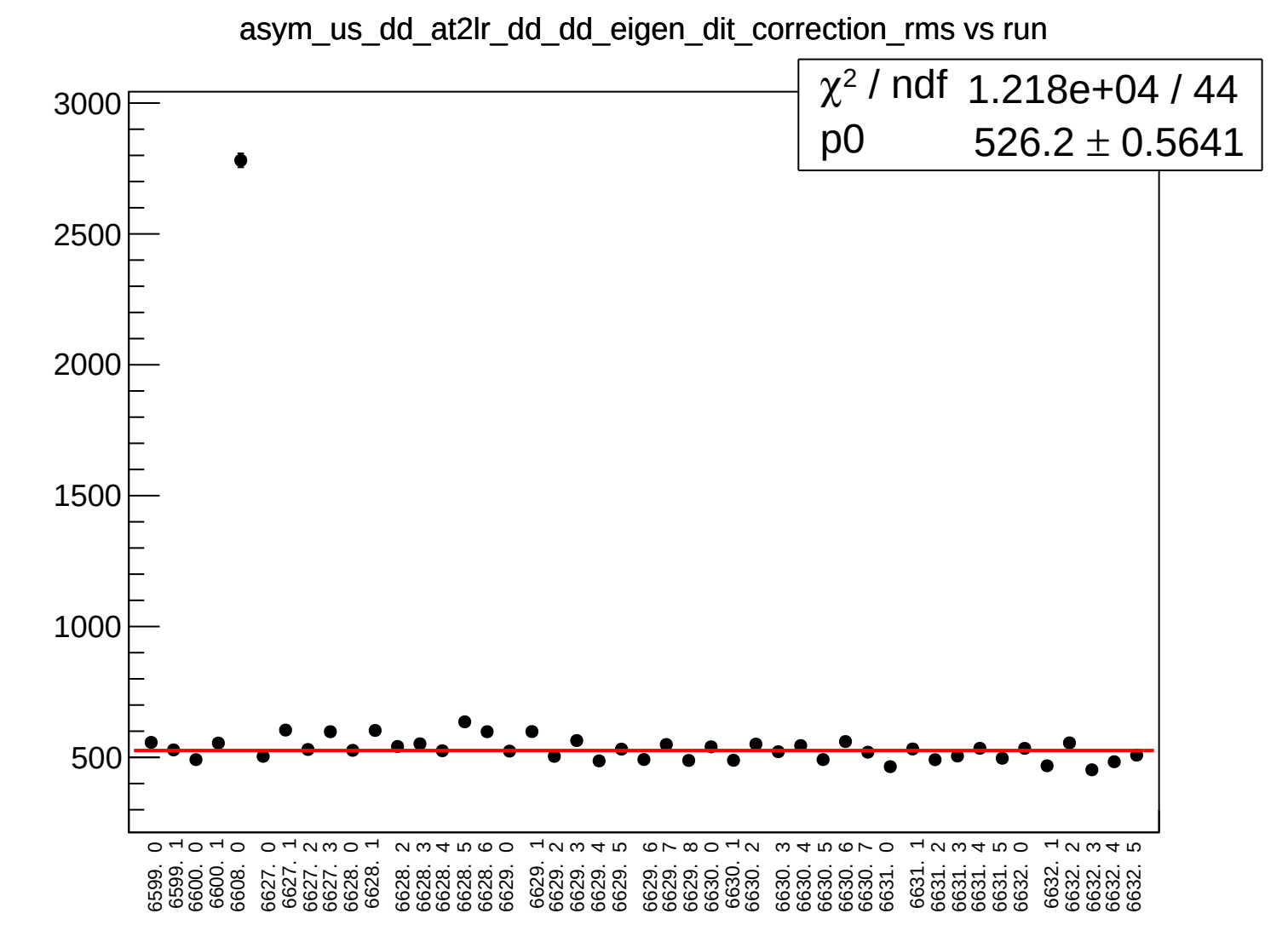
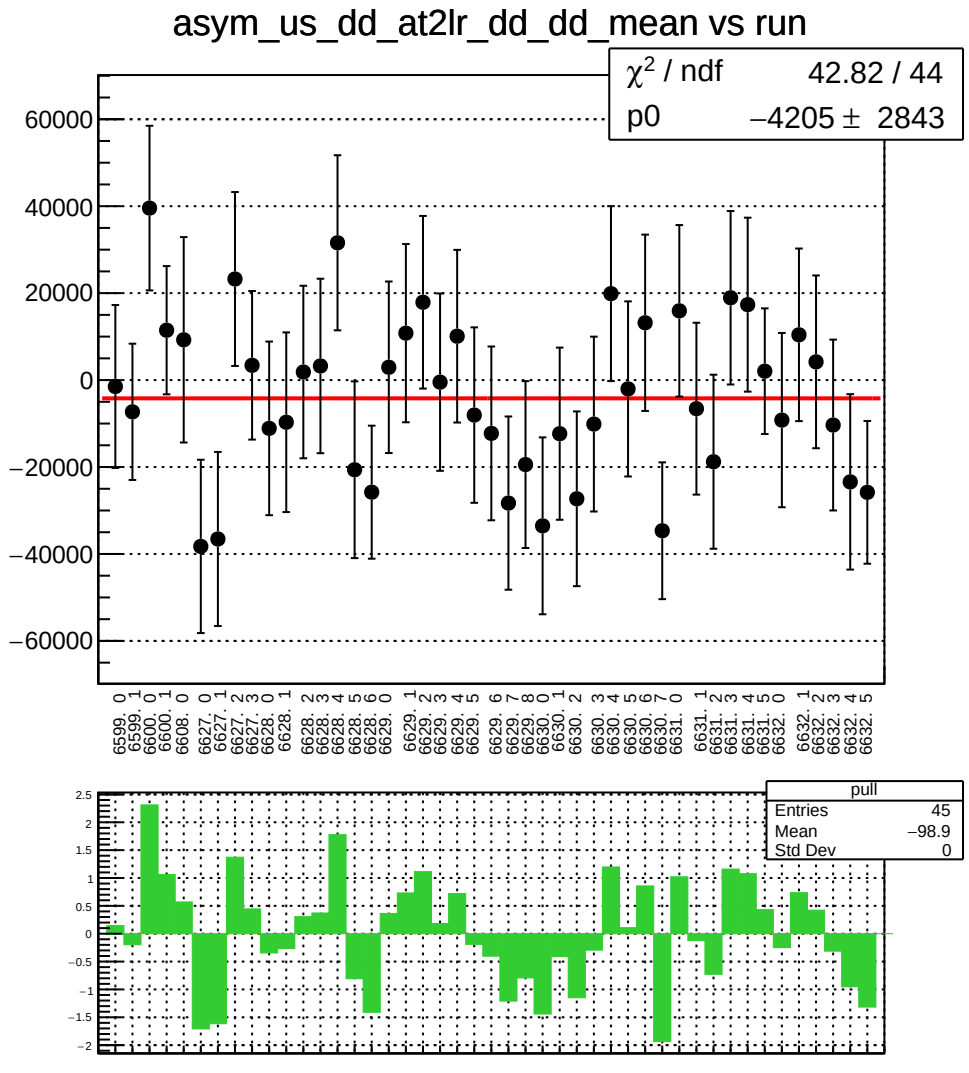
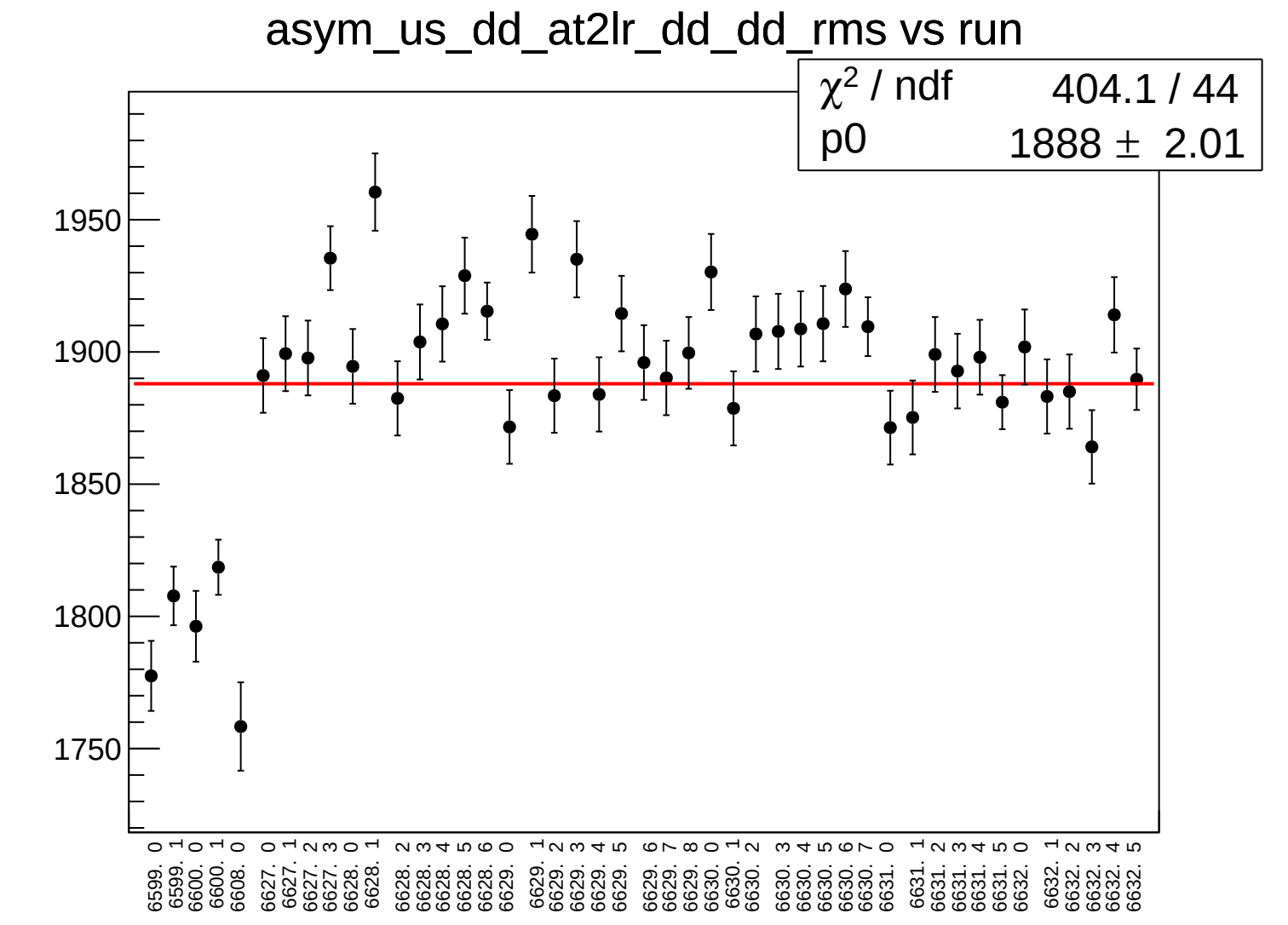
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

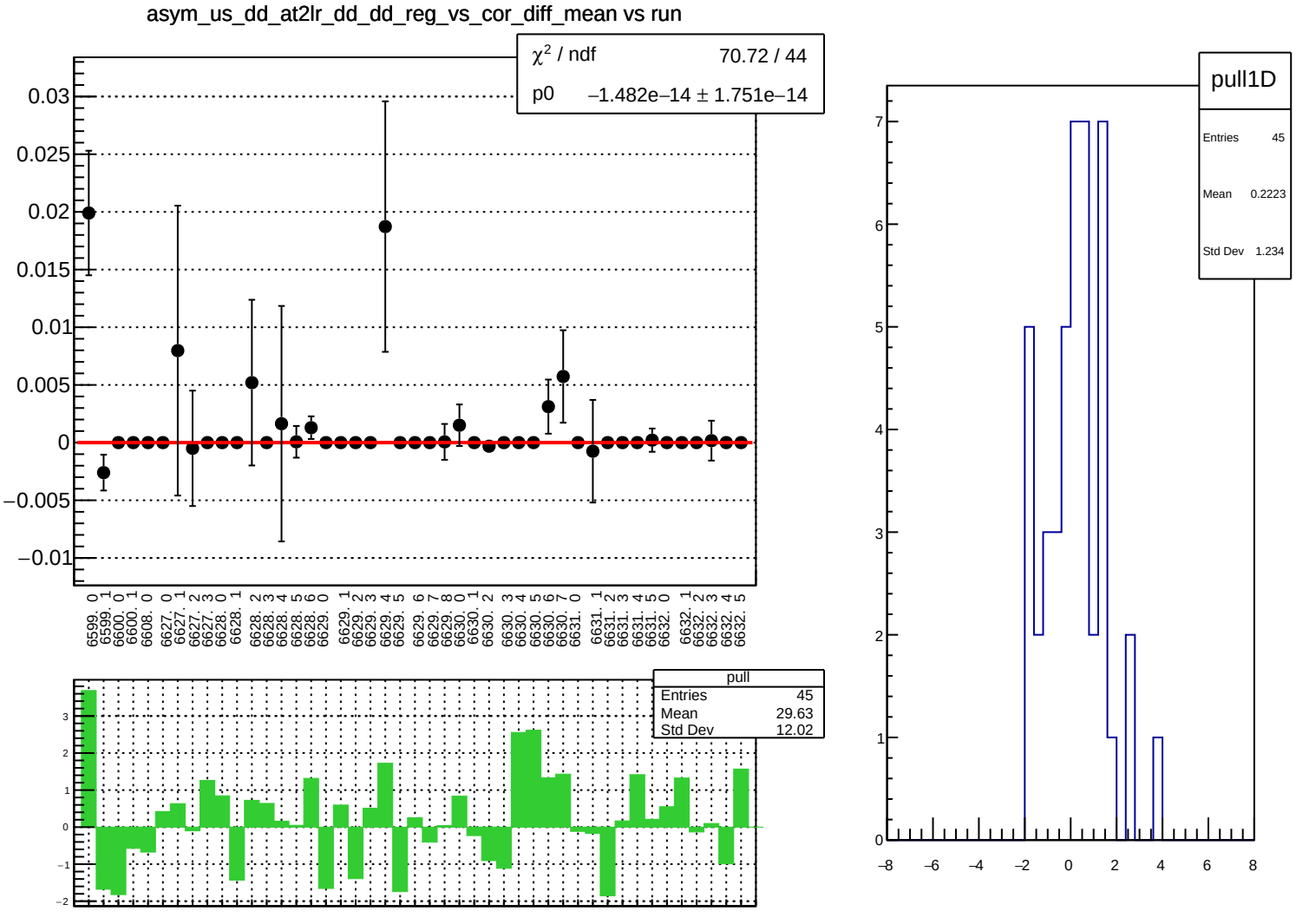

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 60.16 / 44
p0 −1430 ± 797.7
20000
10000
0
−10000
−20000
−30000
−40000
−50000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −5.441
Std Dev 0
2
1
0
−1
−2
−3

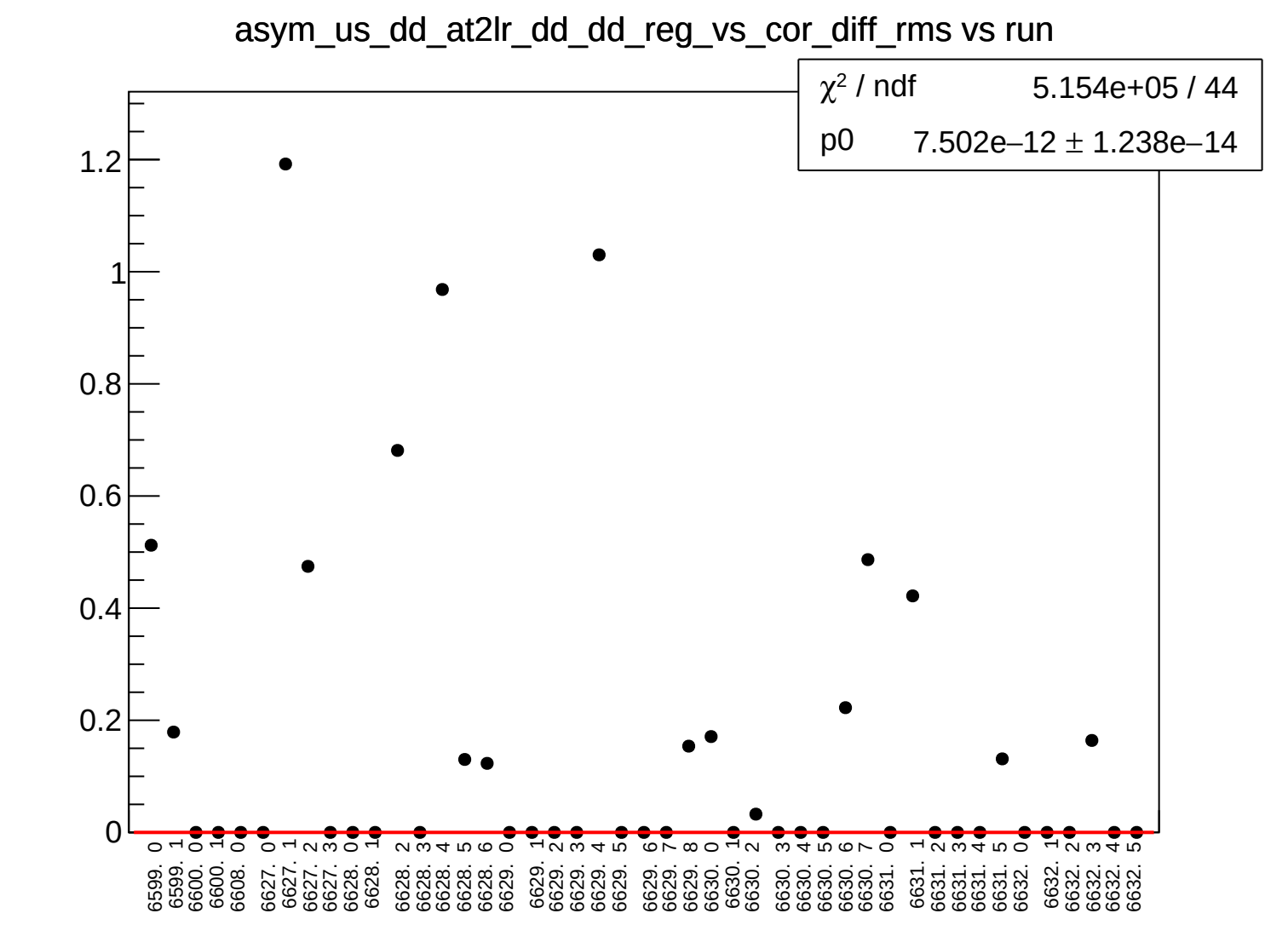

pull1D
Entries 45
Mean 0.01172
Std Dev 1.156
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

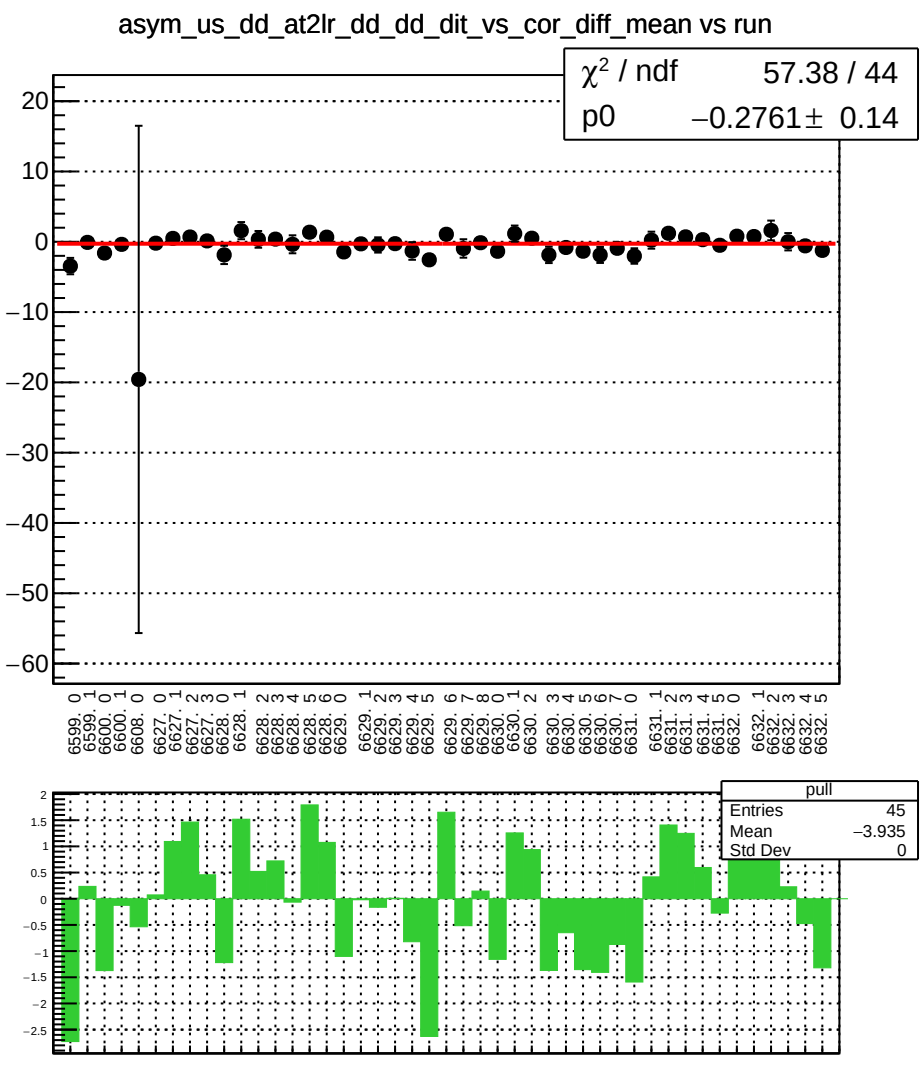

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.218e+04 / 44
p0 526.2 ± 0.5641
3000
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

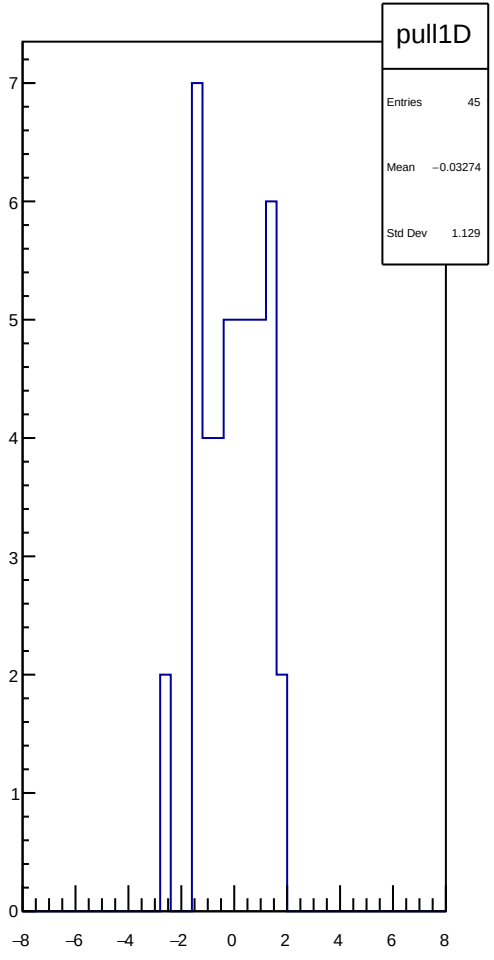

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 42.82 / 44
p0 −4205 ± 2843
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −98.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01391
Std Dev 0.9754
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

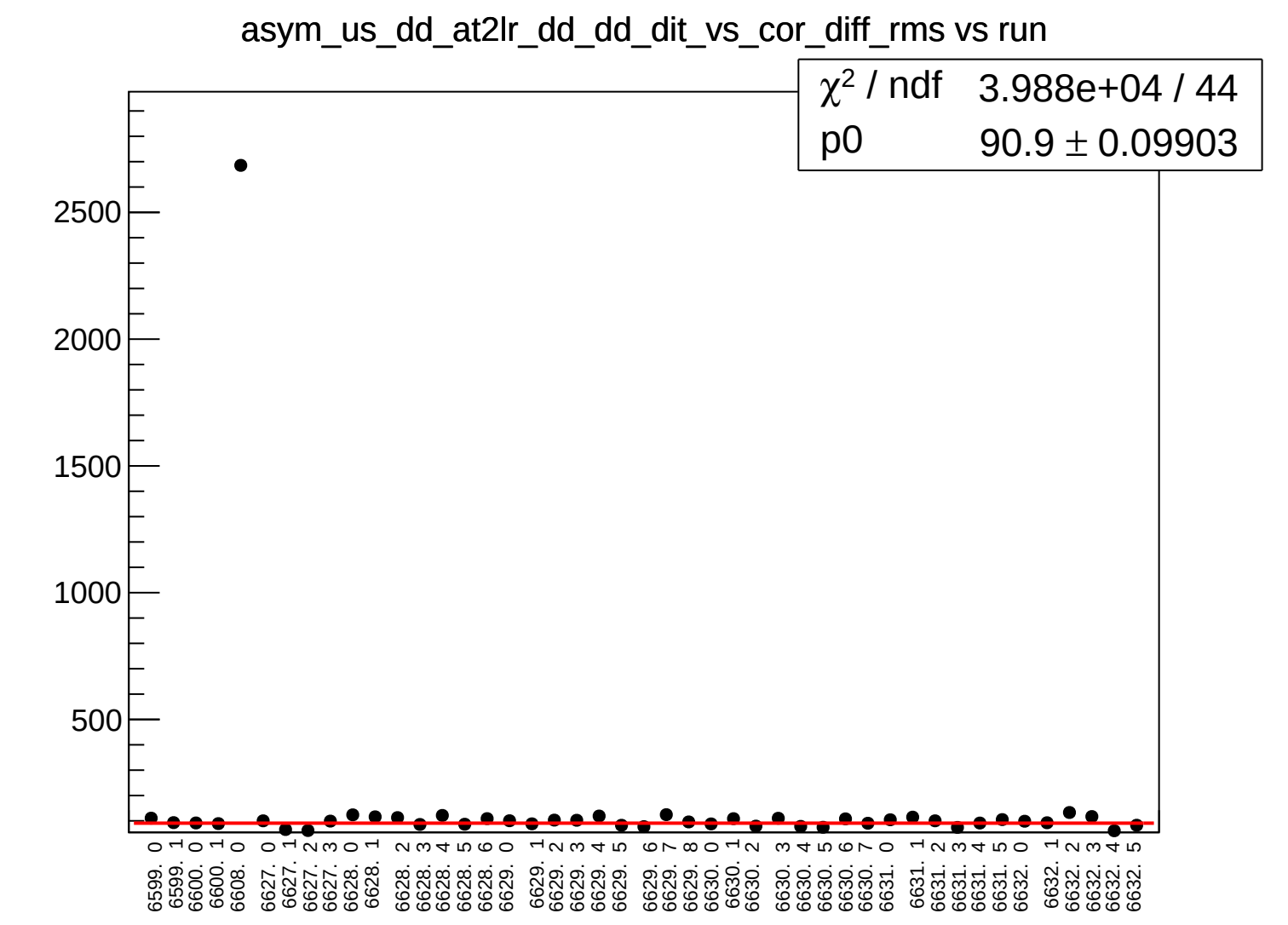

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 404.1 / 44
p0 1888 ± 2.01
1950
1900
1850
1800
1750
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

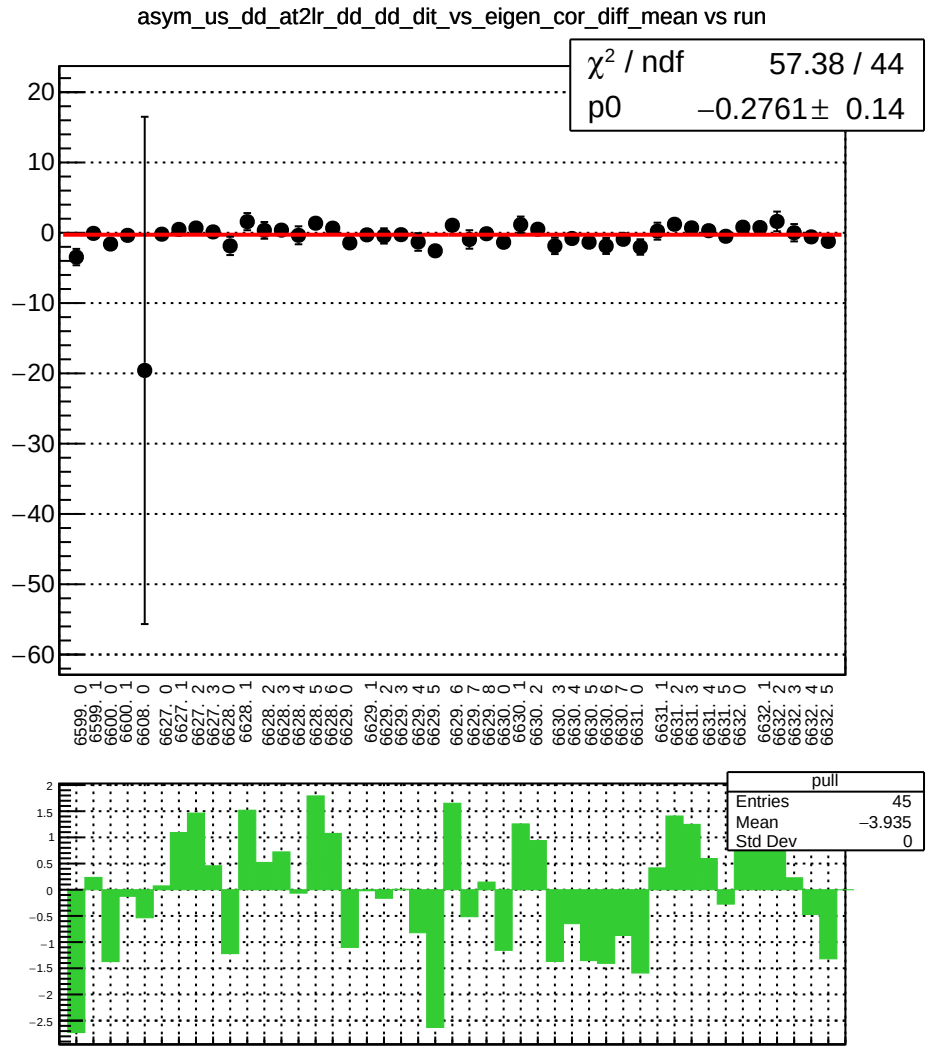

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 70.72 / 44
p0 −1.482e−14 ± 1.751e−14
0.03
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 29.63
Std Dev 12.02
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.2223
Std Dev 1.234
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

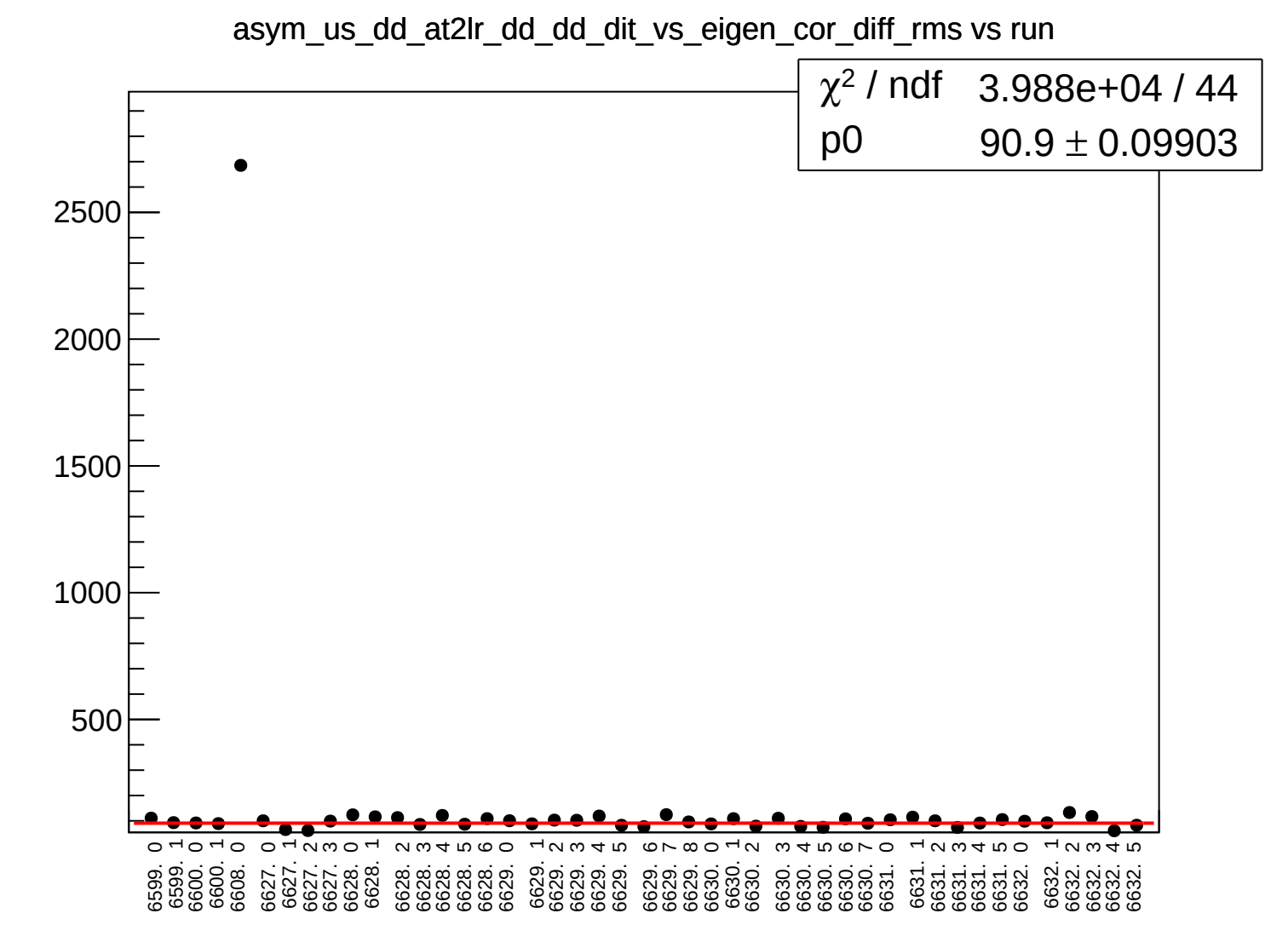

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.154e+05 / 44
p0 7.502e−12 ± 1.238e−14
1.2
1
0.8
0.6
0.4
0.2
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

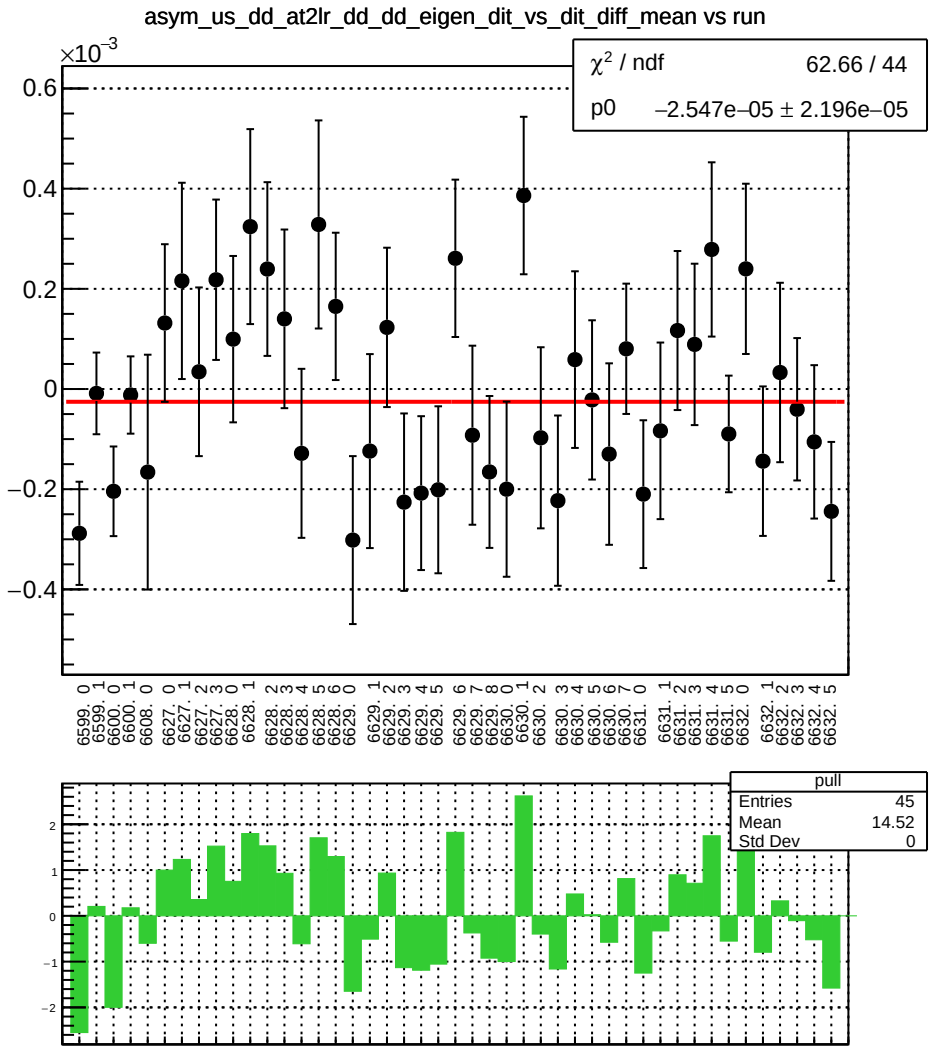

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 57.38 / 44
p0 −0.2761± 0.14
pull
Entries 45
Mean −3.935
Std Dev 0

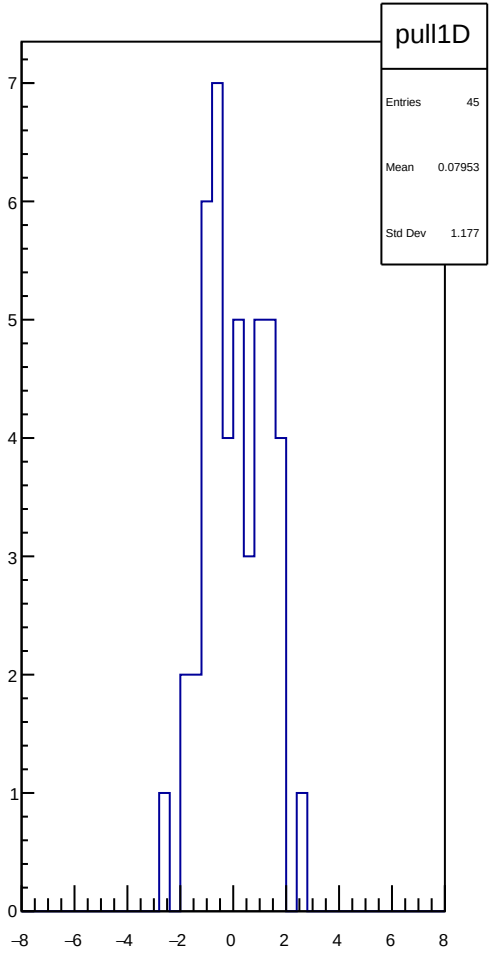

pull1D
Entries 45
Mean −0.03274
Std Dev 1.129

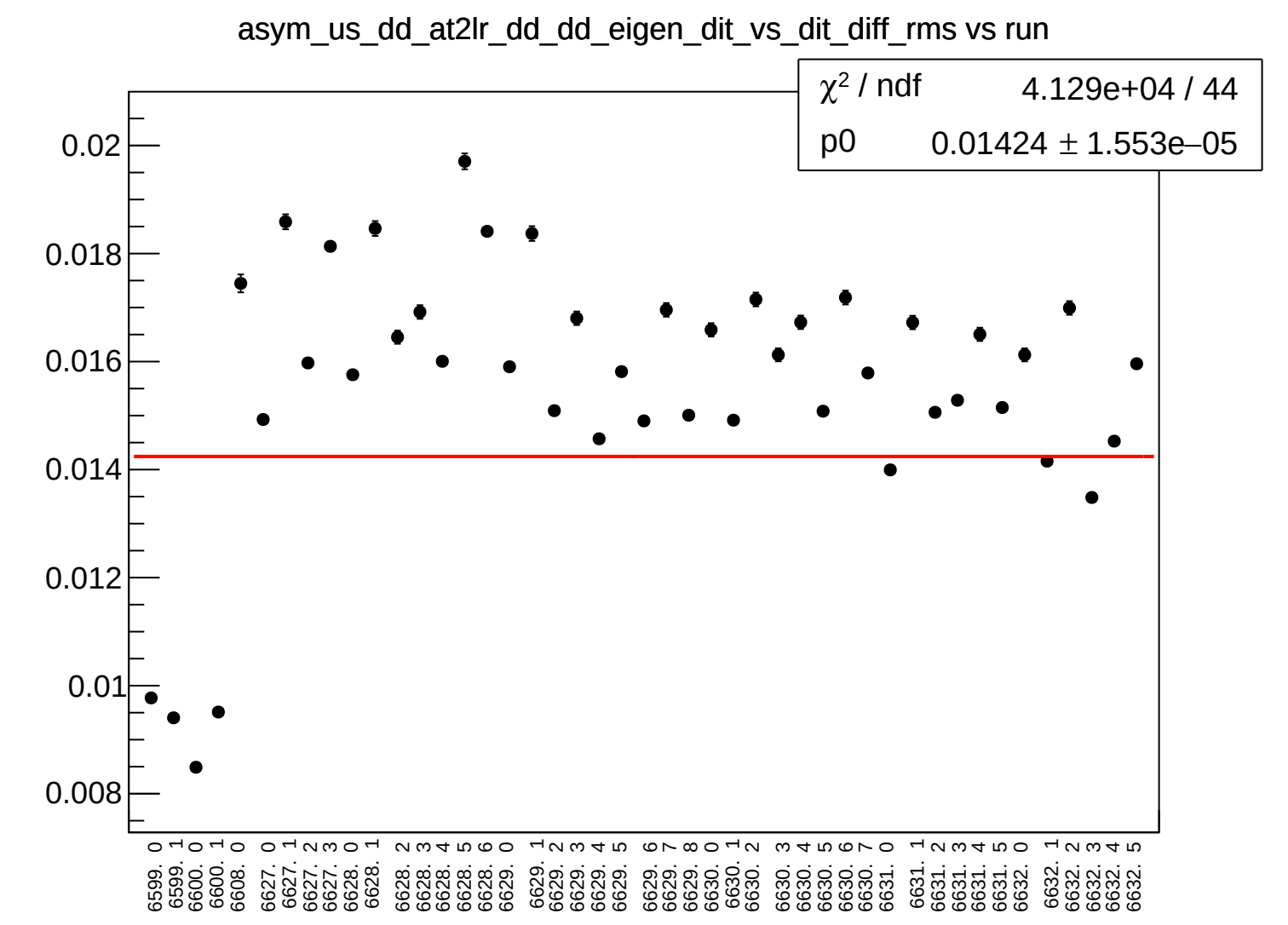

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.988e+04 / 44
p0 90.9 ± 0.09903
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.38 / 44
p0 −0.2761 ± 0.14
pull
Entries 45
Mean −3.935
Std Dev 0
pull1D
Entries 45
Mean −0.03274
Std Dev 1.129


asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.988e+04 / 44
p0 90.9 ± 0.09903
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 62.66 / 44
p0 −2.547e−05 ± 2.196e−05
0.6
0.4
0.2
0
−0.2
−0.4
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 14.52
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.07953
Std Dev 1.177
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 4.129e+04 / 44
p0 0.01424 ± 1.553e−05
0.02
0.018
0.016
0.014
0.012
0.01
0.008
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
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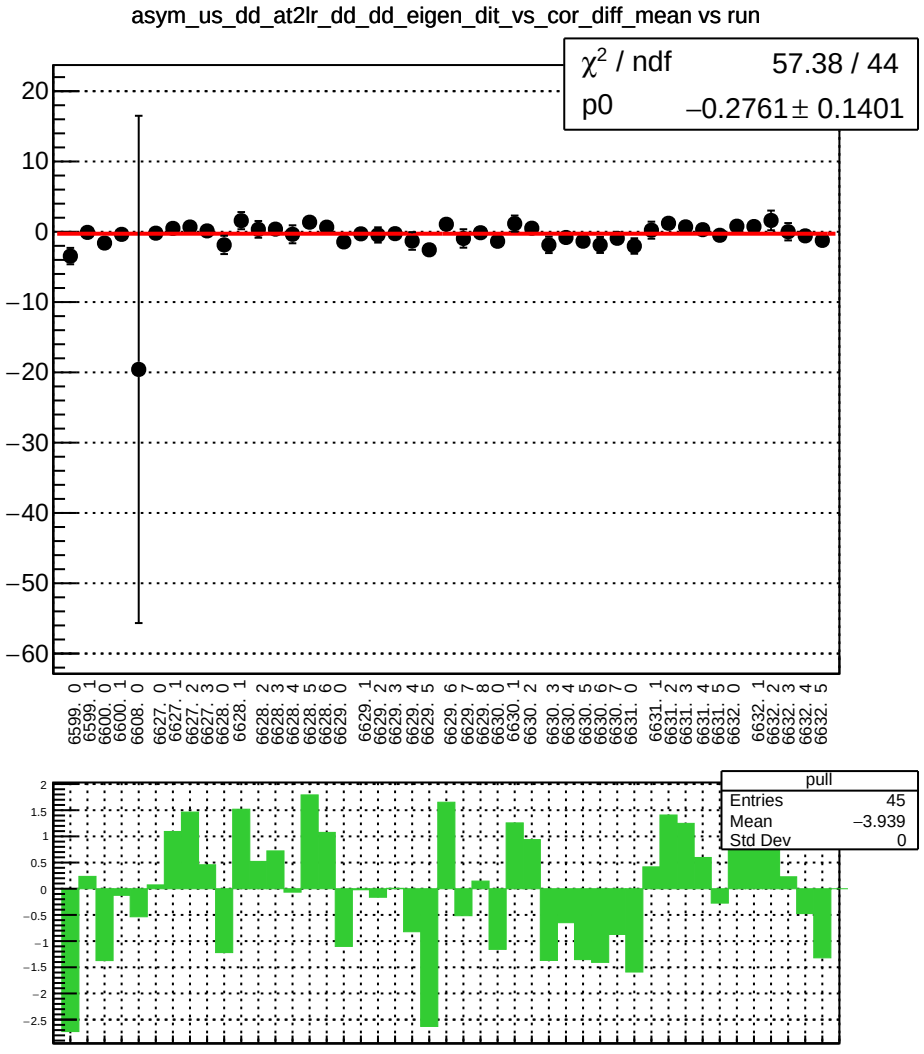
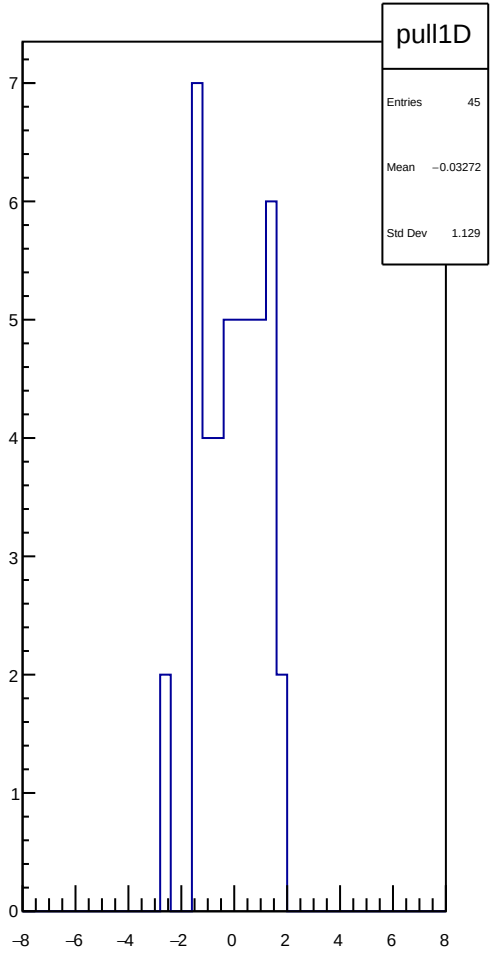
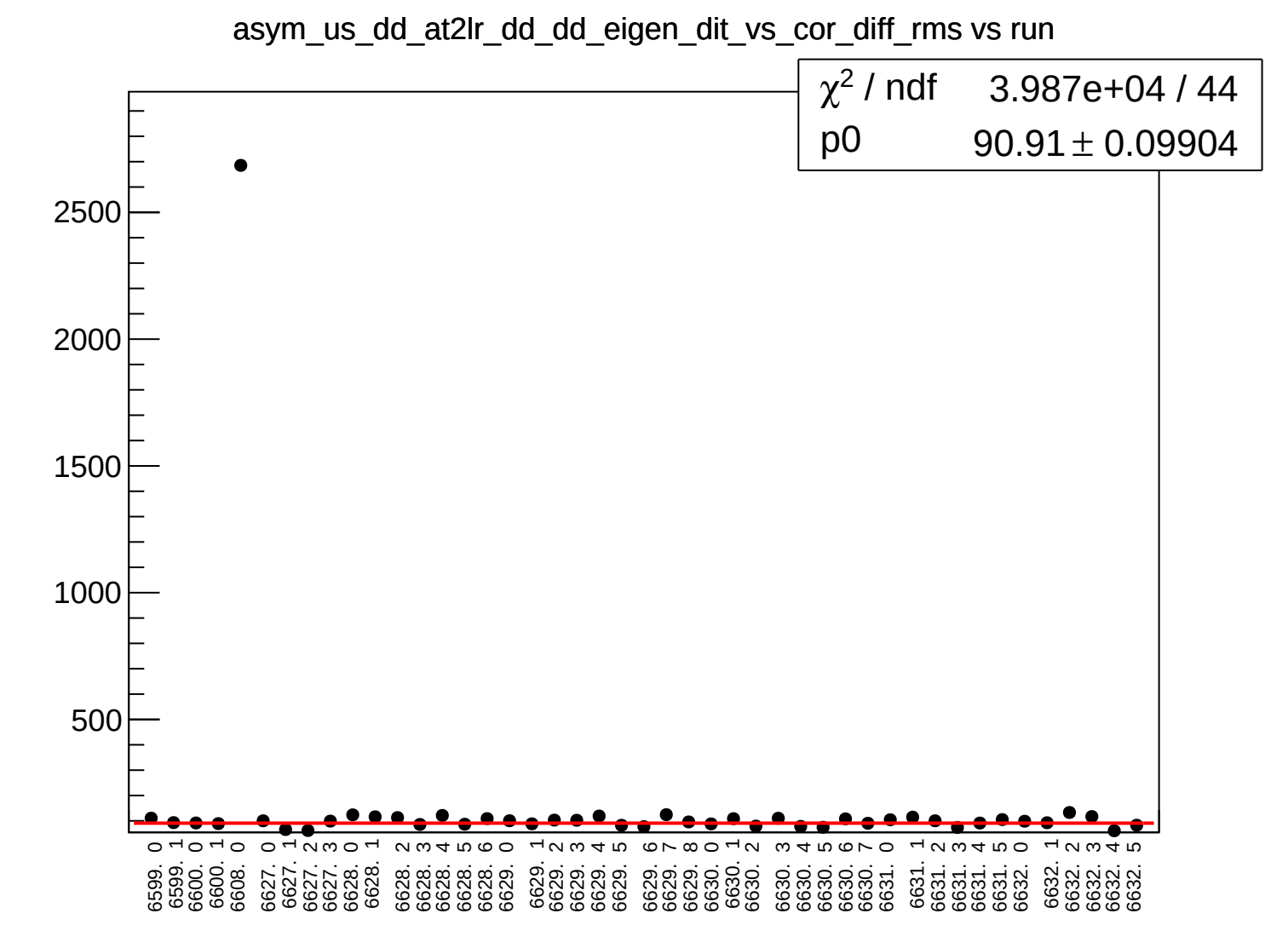
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 57.38 / 44
p0 −0.2761 ± 0.1401
pull
Entries 45
Mean −3.939
Std Dev 0


pull1D
Entries 45
Mean −0.03272
Std Dev 1.129


asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.987e+04 / 44
p0 90.91 ± 0.09904
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
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6632. 2
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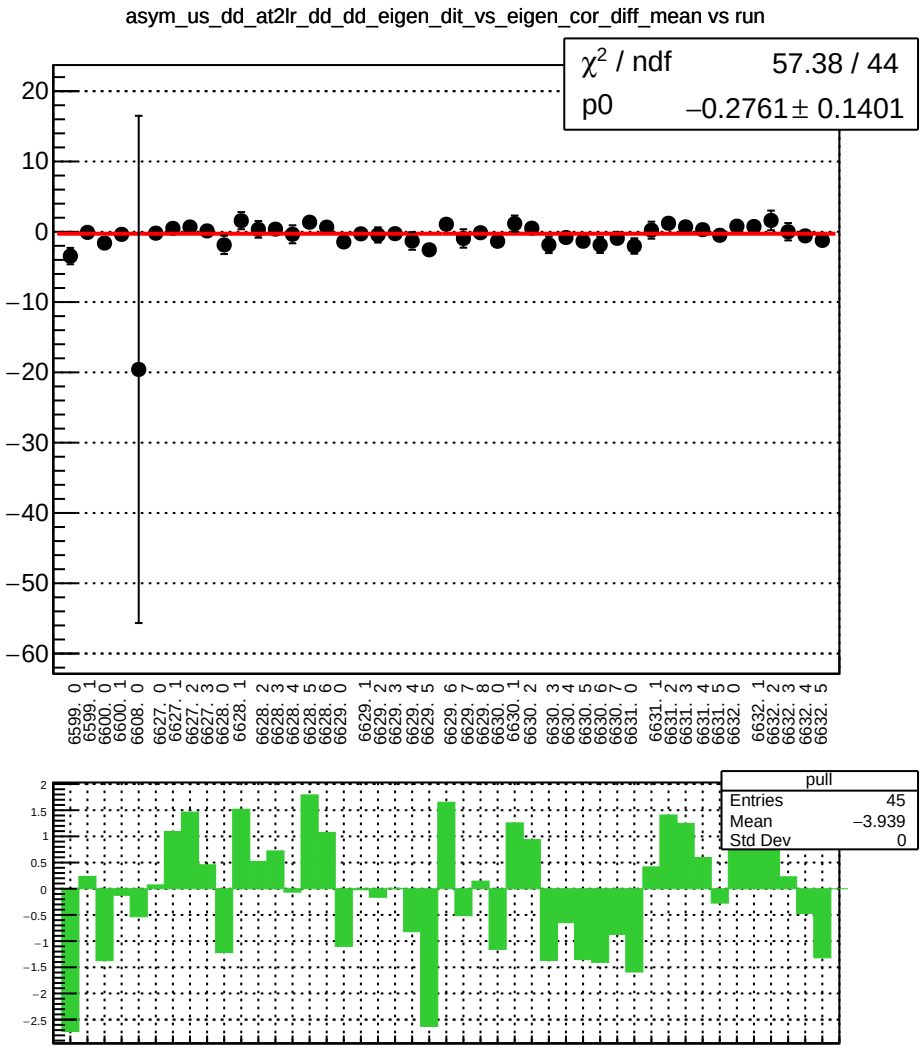
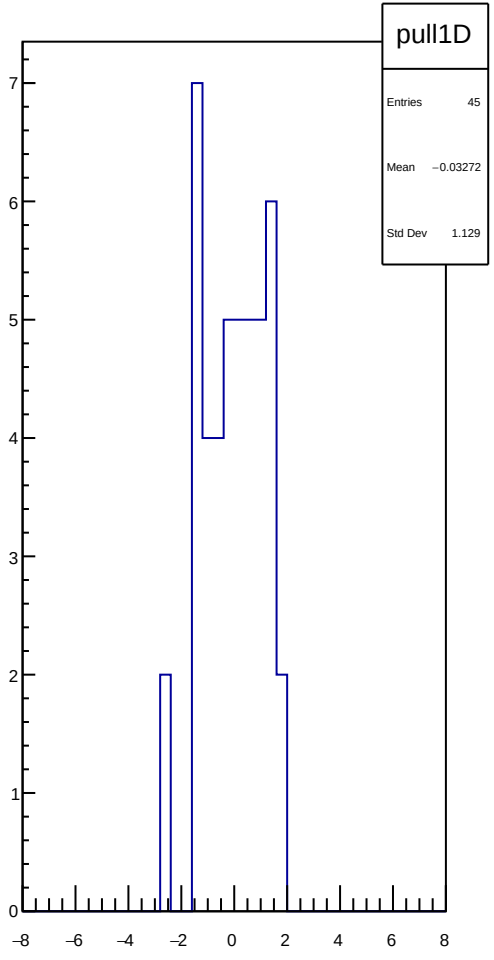
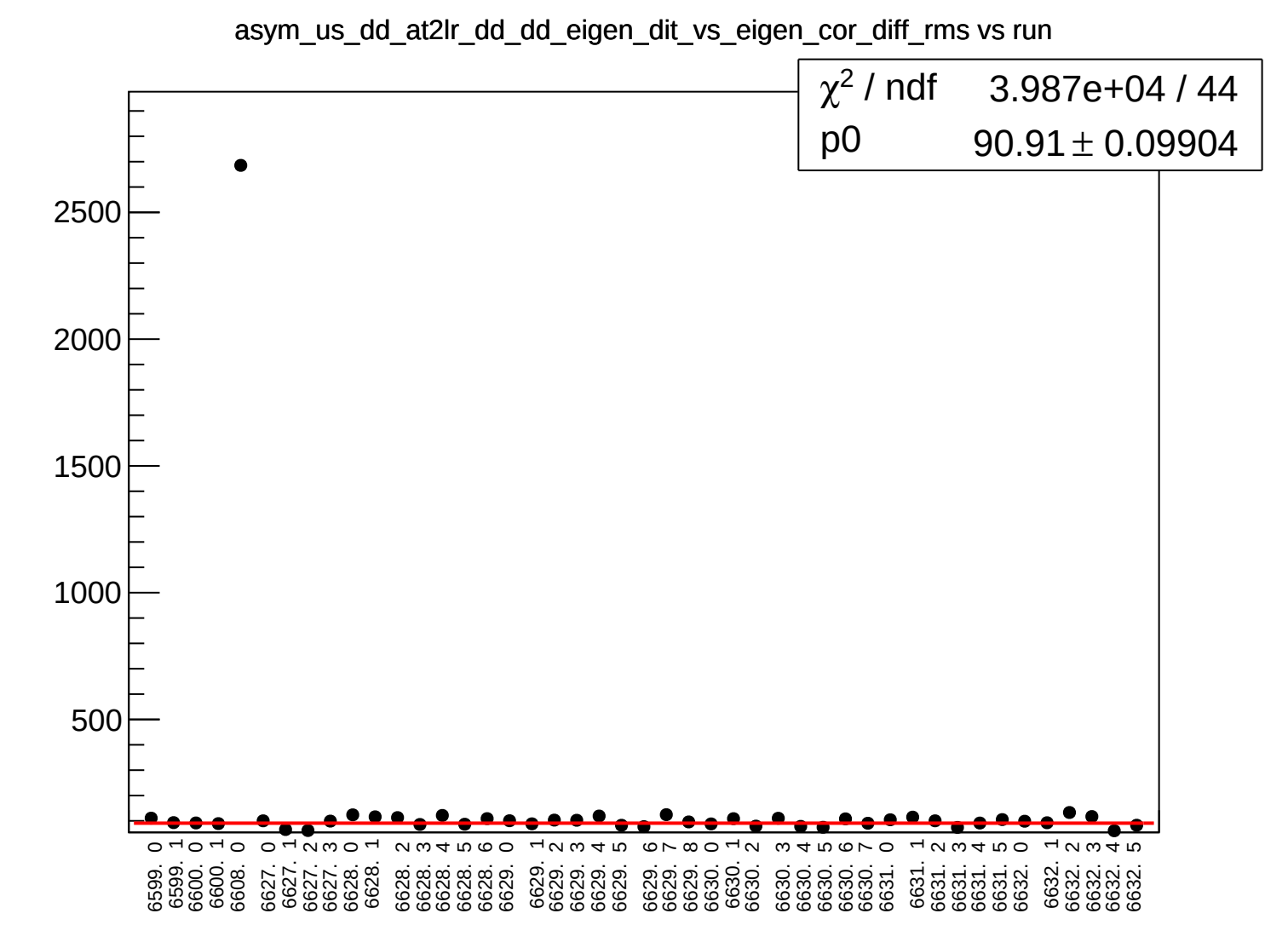
6632. 4
6632. 5


asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.38 / 44
p0 −0.2761 ± 0.1401
pull
Entries 45
Mean −3.939
Std Dev 0


pull1D
Entries 45
Mean −0.03272
Std Dev 1.129


asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.987e+04 / 44
p0 90.91 ± 0.09904
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
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6629. 7
6629. 8
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6630. 1
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6631. 3
6631. 4
6631. 5
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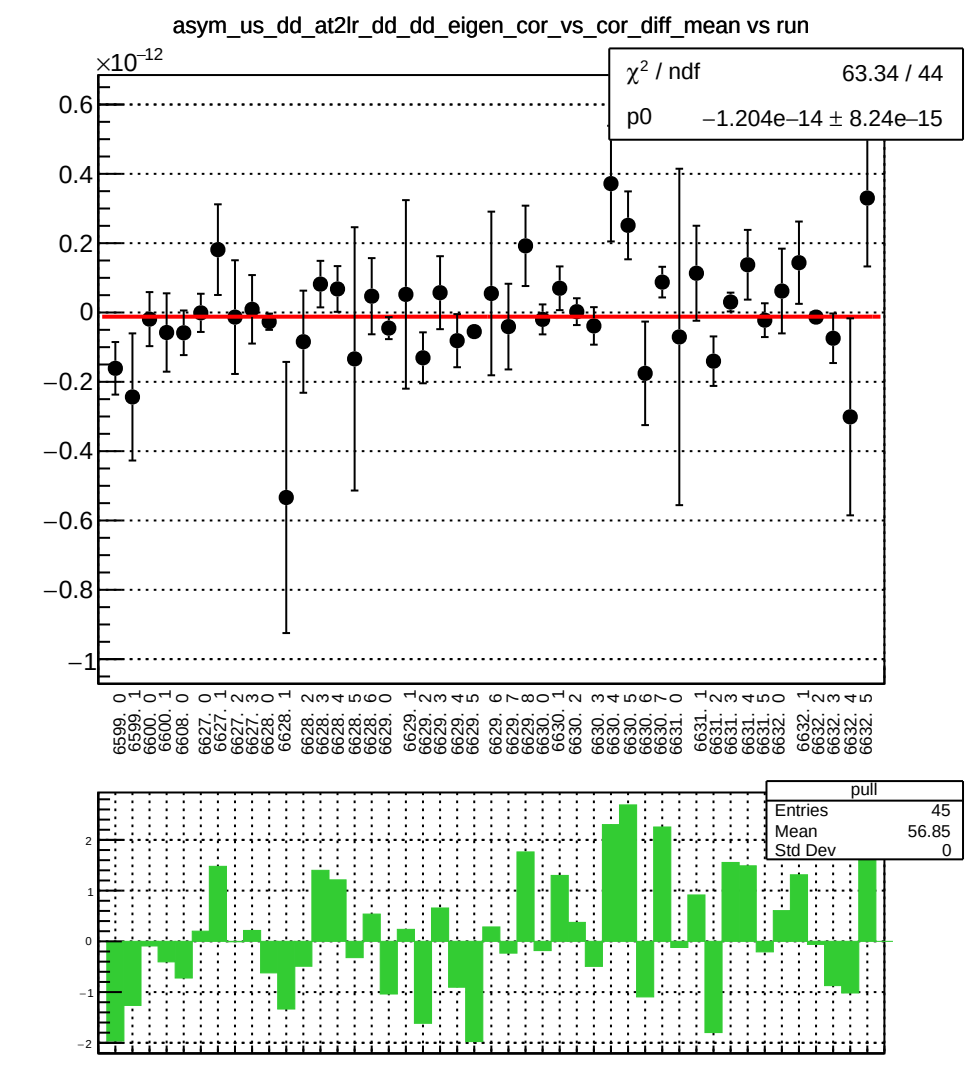
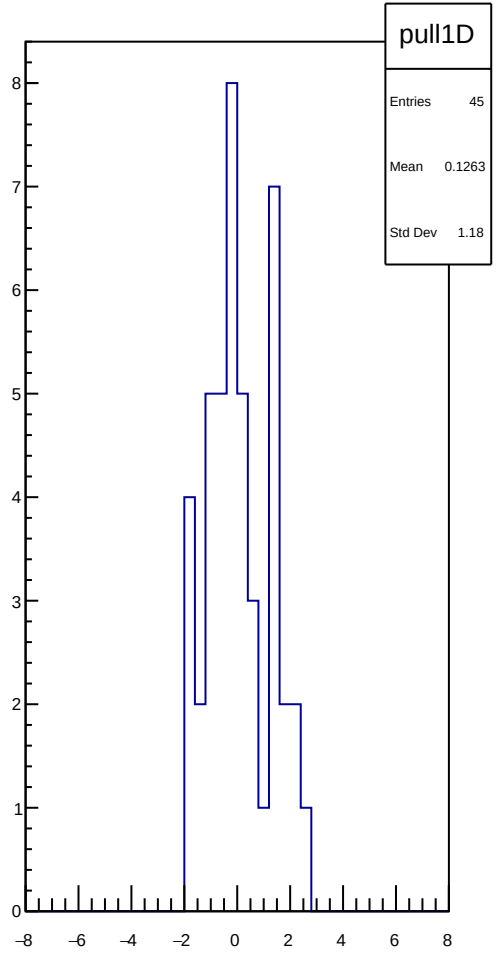
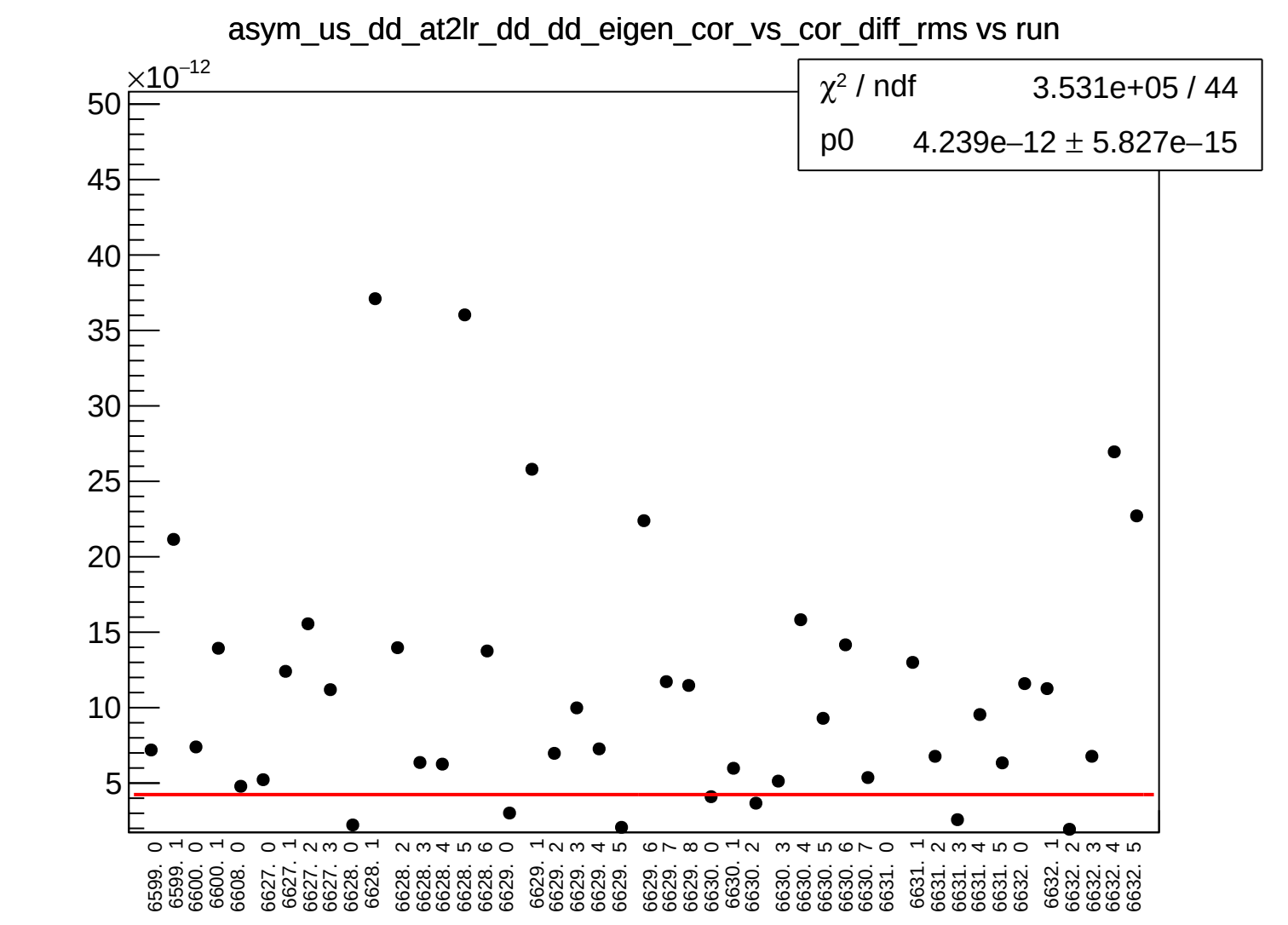
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 63.34 / 44
p0 −1.204e−14 ± 8.24e−15
pull
Entries 45
Mean 56.85
Std Dev 0


pull1D
Entries 45
Mean 0.1263
Std Dev 1.18


asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.531e+05 / 44
p0 4.239e−12 ± 5.827e−15
50
45
40
35
30
25
20
15
10
5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 7
6629. 8
6630. 0
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
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6632. 2
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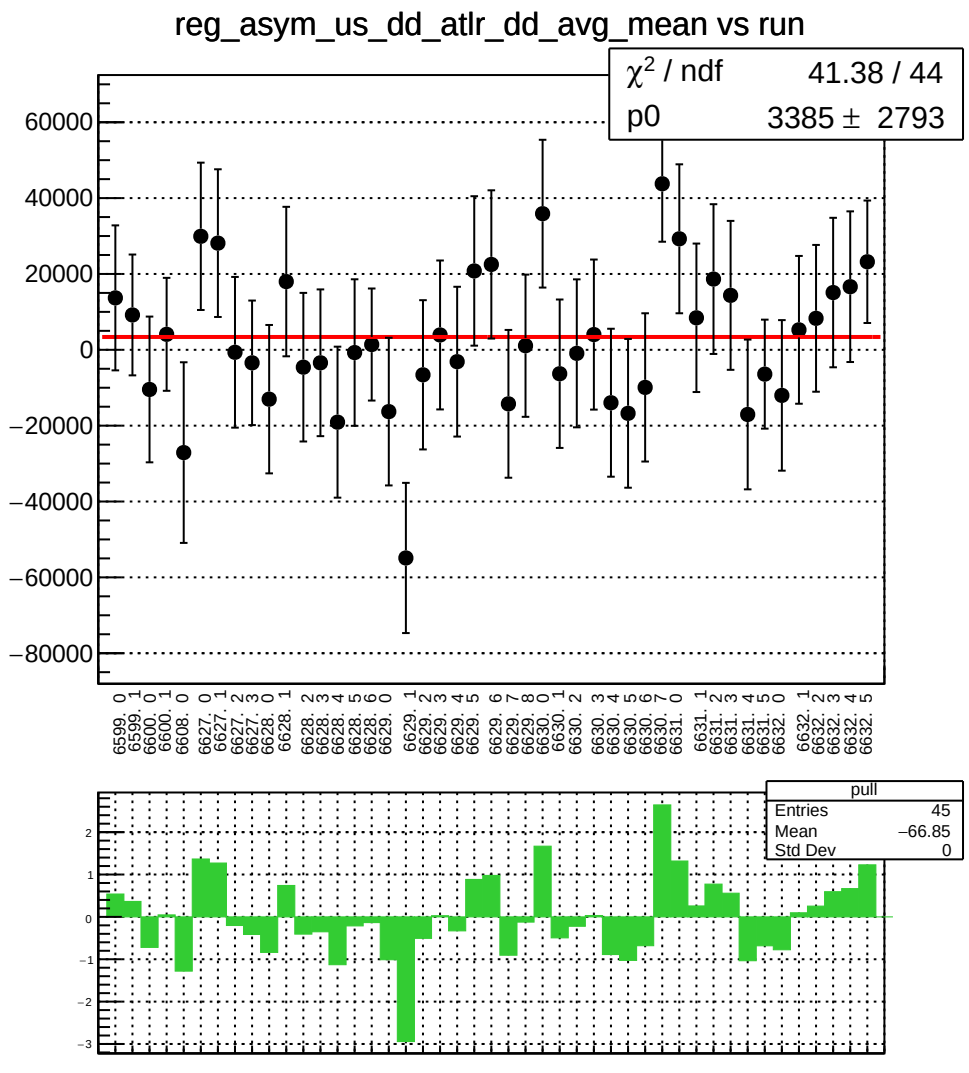
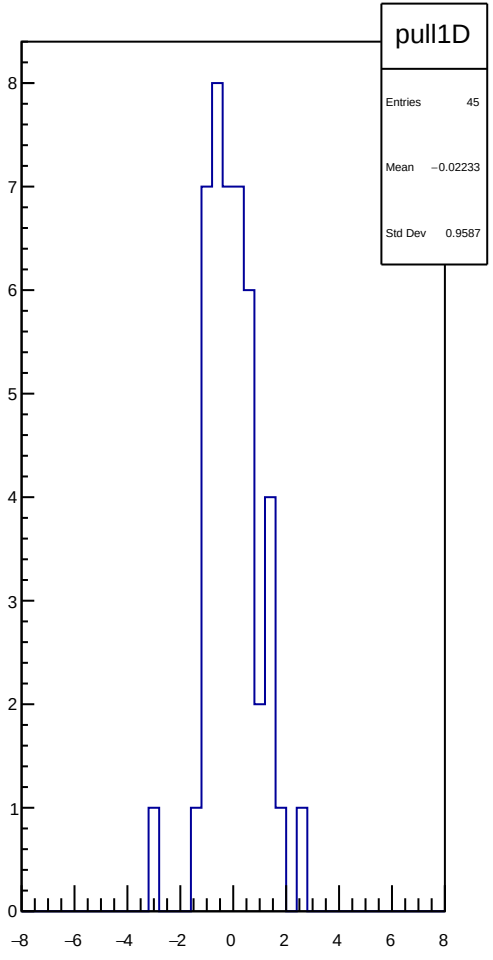
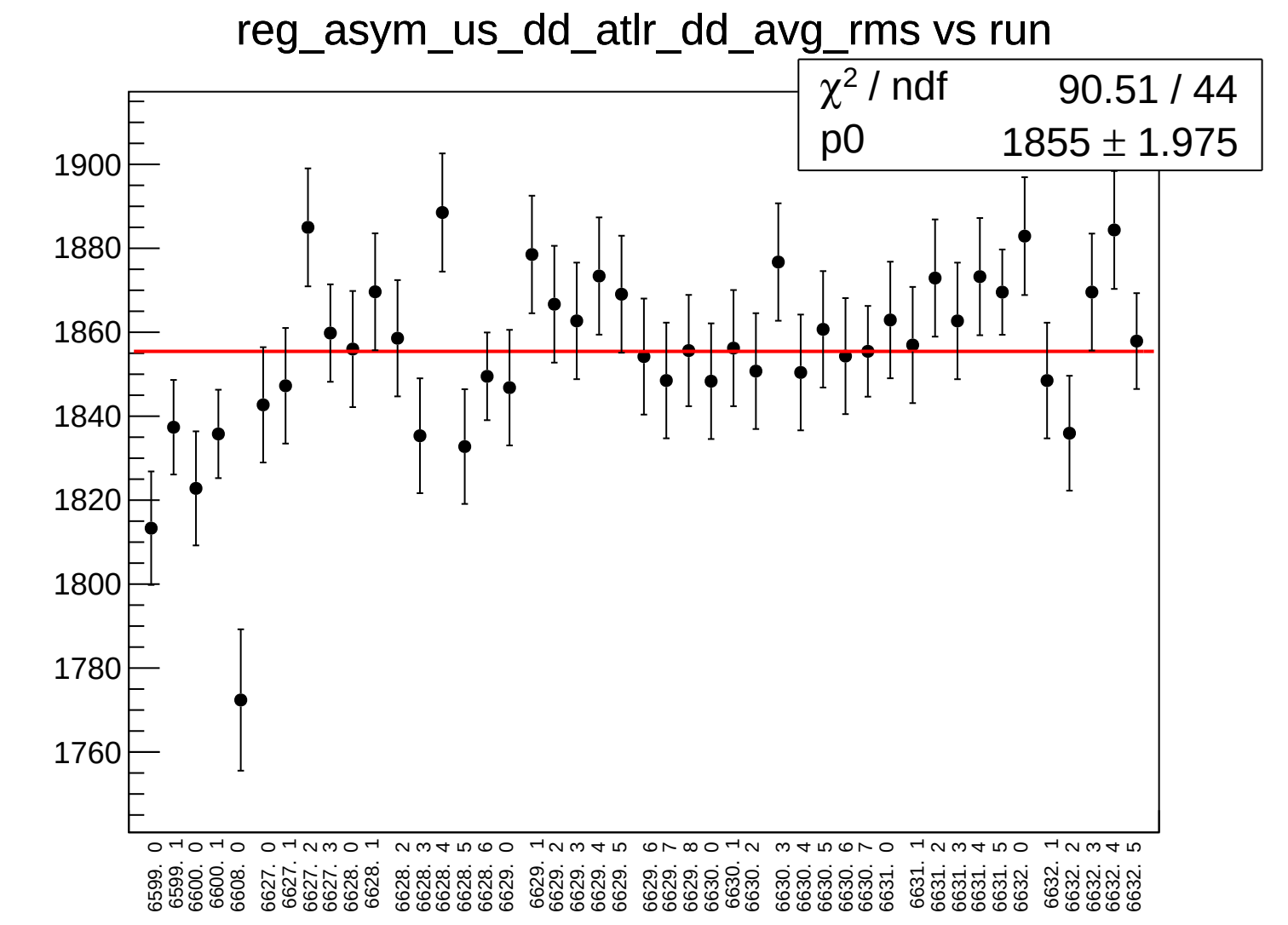
6632. 4
6632. 5


reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 41.38 / 44
p0 3385 ± 2793
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −66.85
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.02233
Std Dev 0.9587
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_rms vs run
χ² / ndf 90.51 / 44
p0 1855 ± 1.975
1900
1880
1860
1840
1820
1800
1780
1760
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6629. 0
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6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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6632. 2
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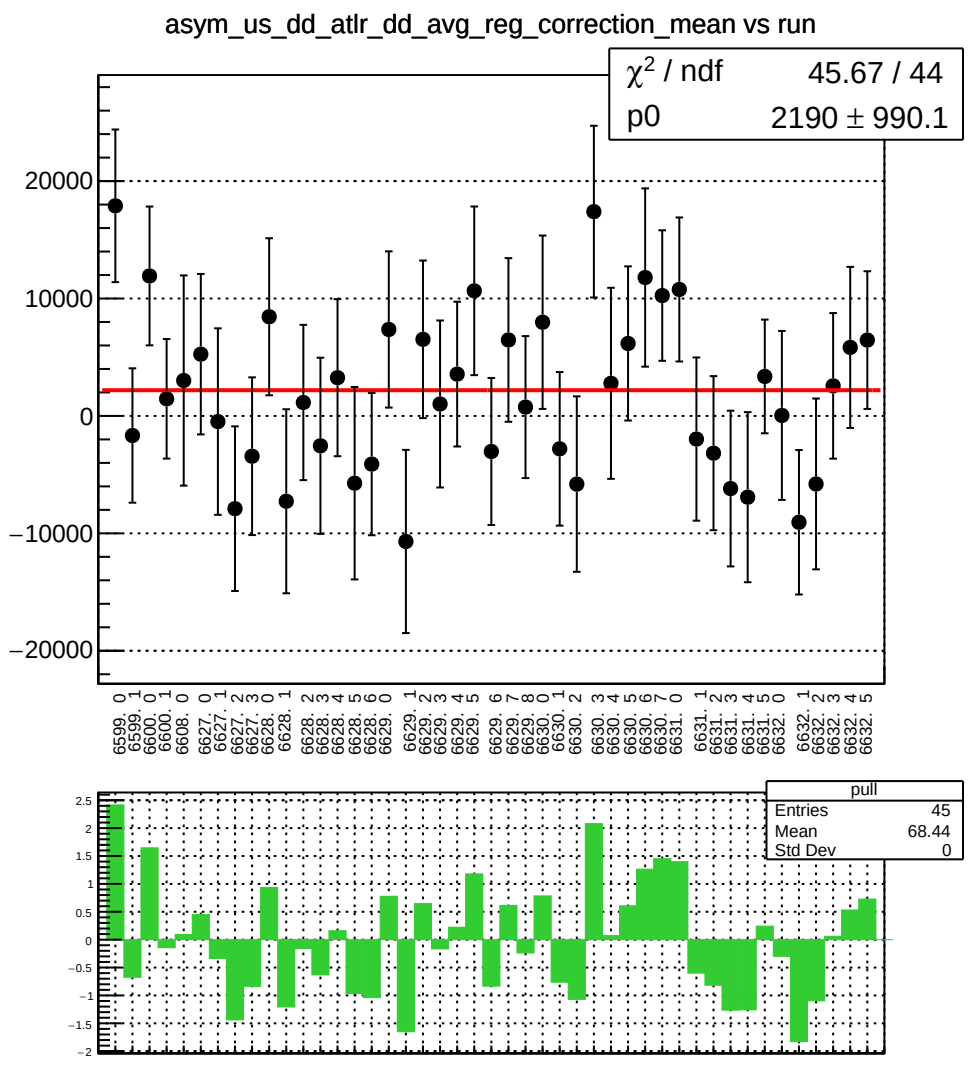
6632. 4
6632. 5


asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
χ² / ndf 45.67 / 44
p0 2190 ± 990.1
20000
10000
0
−10000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
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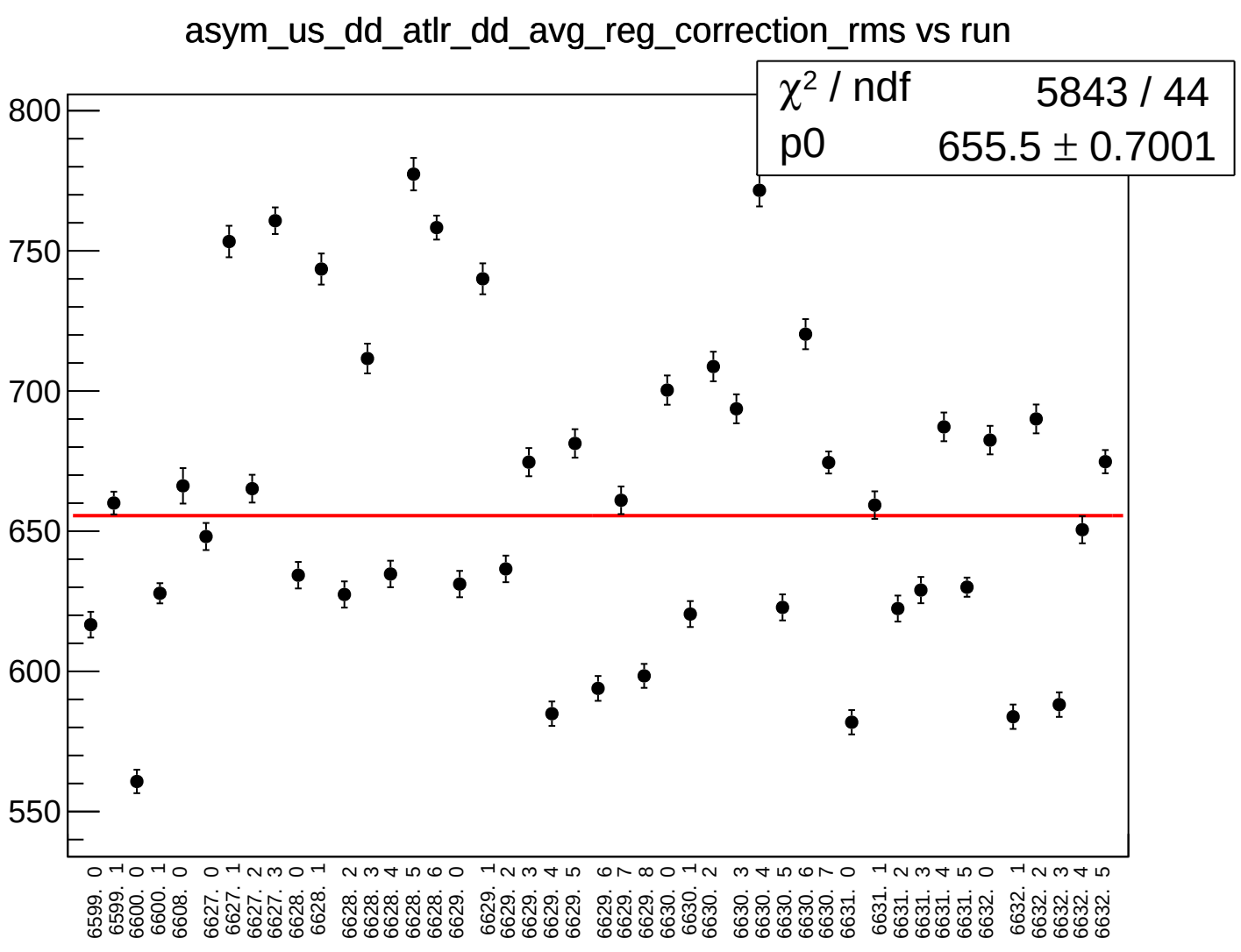
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 68.44
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.02115
Std Dev 1.007
8
7
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 5843 / 44
p0 655.5 ± 0.7001
800
750
700
650
600
550
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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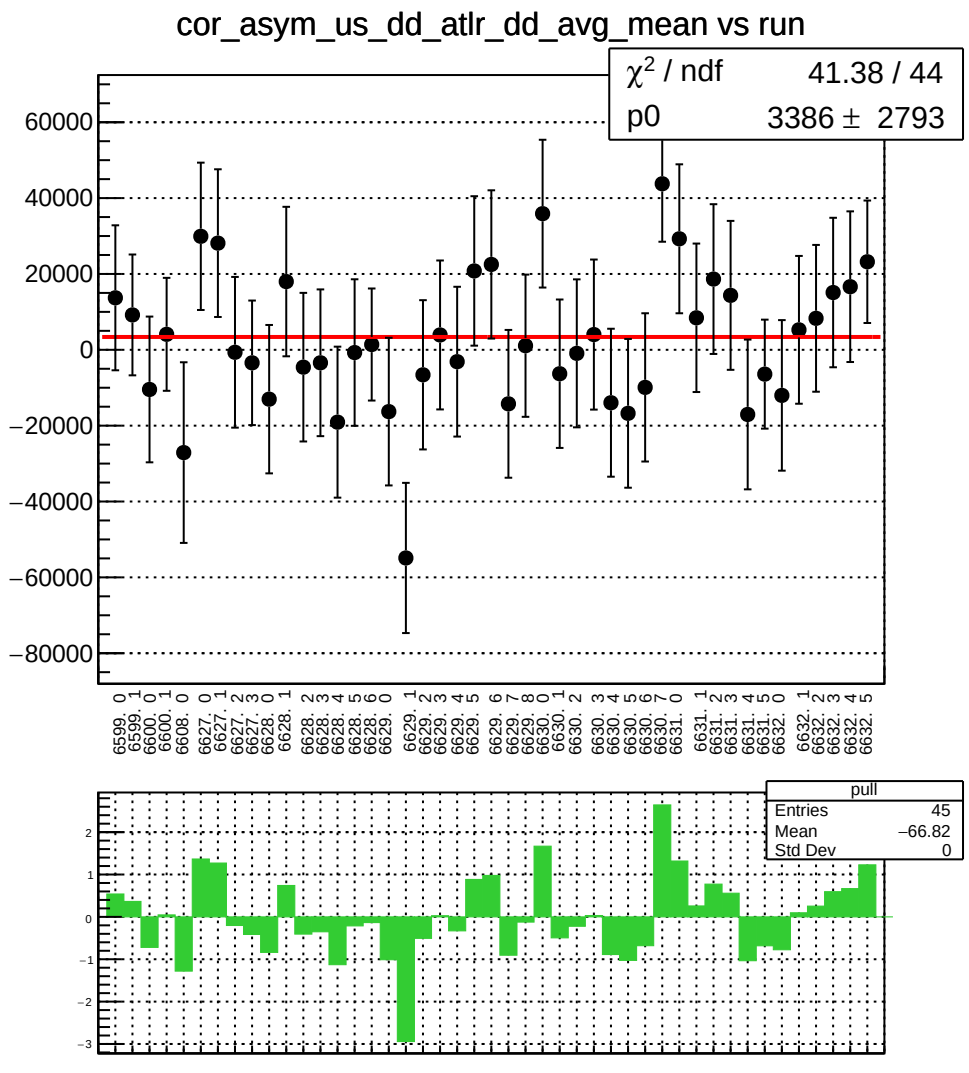
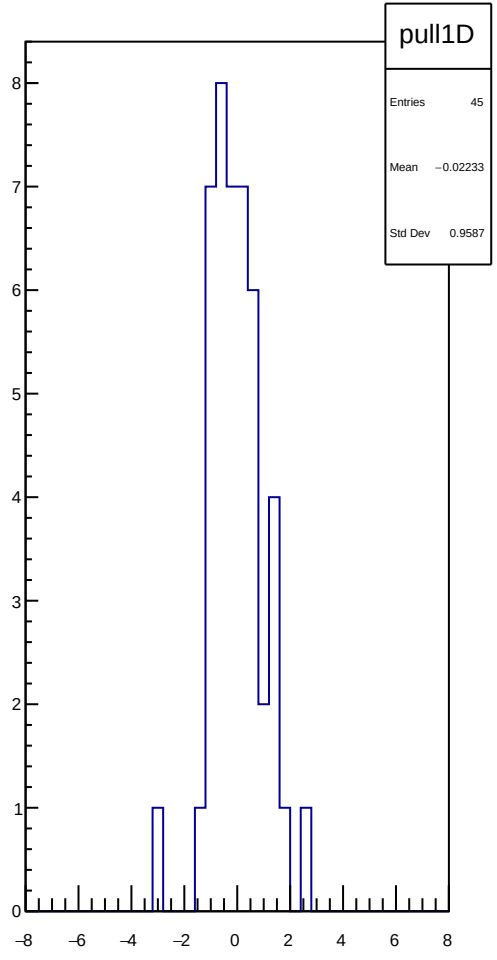
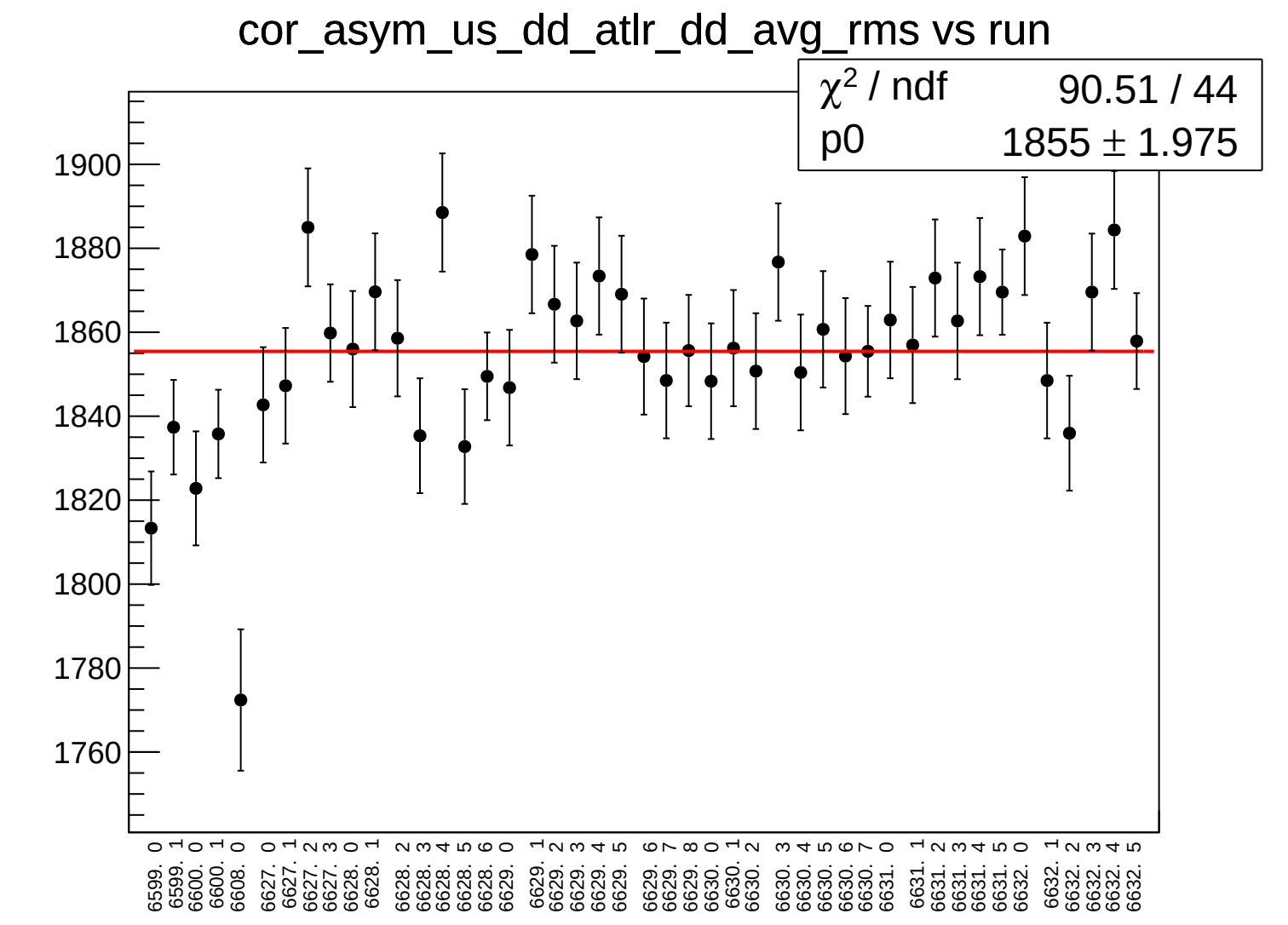
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 41.38 / 44
p0 3386 ± 2793
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −66.82
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.02233
Std Dev 0.9587
8
7
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 90.51 / 44
p0 1855 ± 1.975
1900
1880
1860
1840
1820
1800
1780
1760
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6632. 2
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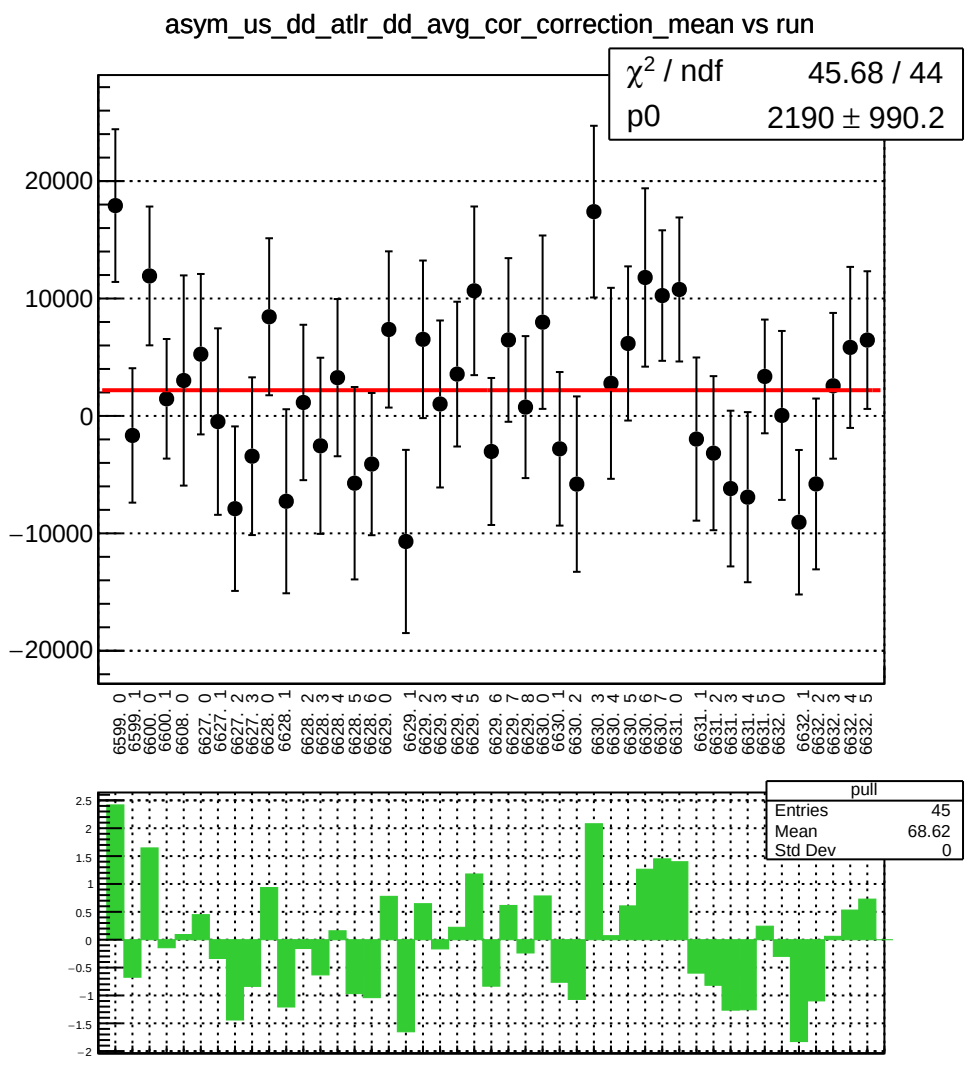
6632. 4
6632. 5


asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
χ² / ndf 45.68 / 44
p0 2190 ± 990.2
20000
10000
0
−10000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6630. 2
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6630. 4
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6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 68.62
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.02109
Std Dev 1.007
8
7
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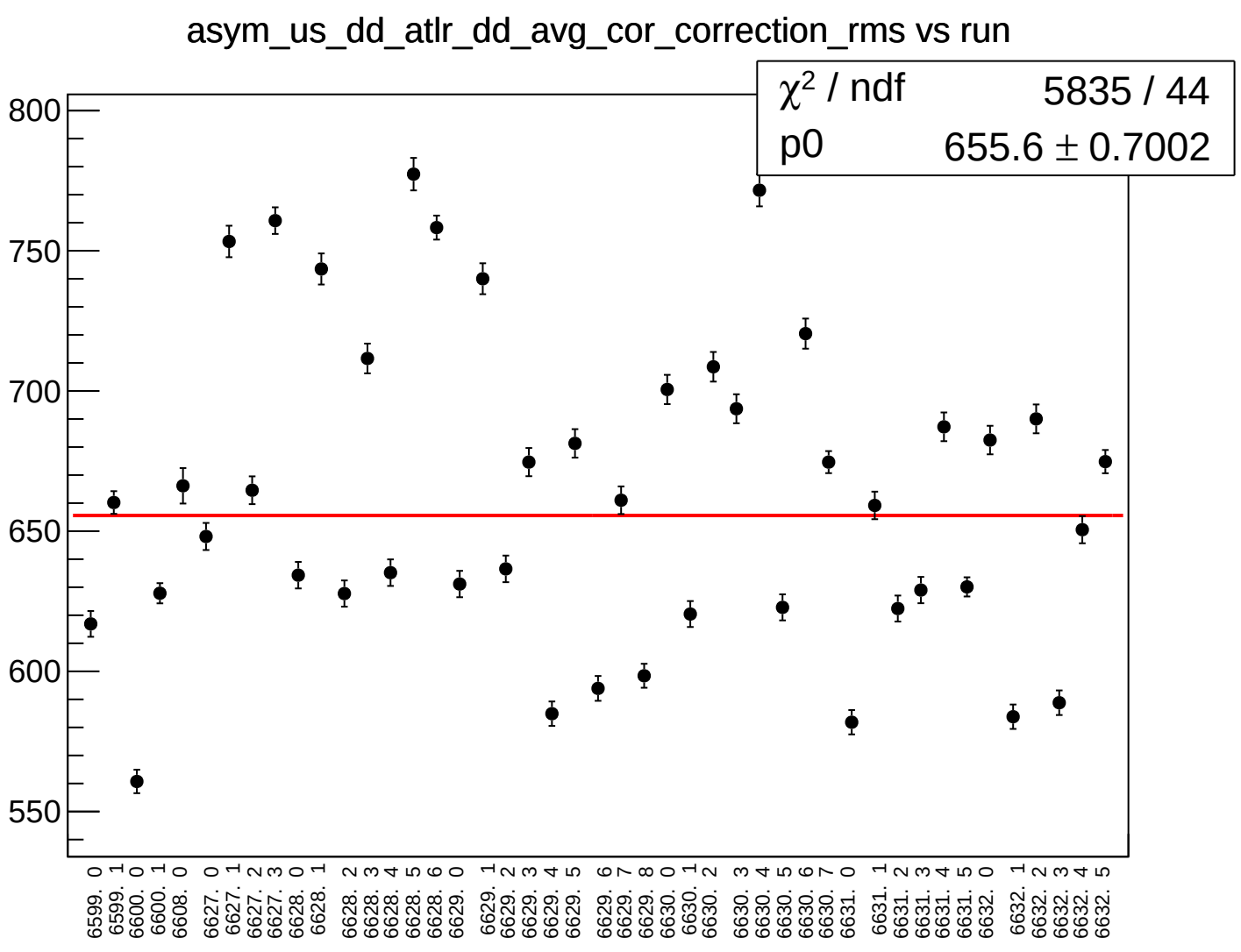
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 5835 / 44
p0 655.6 ± 0.7002
800
750
700
650
600
550
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
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6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
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6630. 2
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6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
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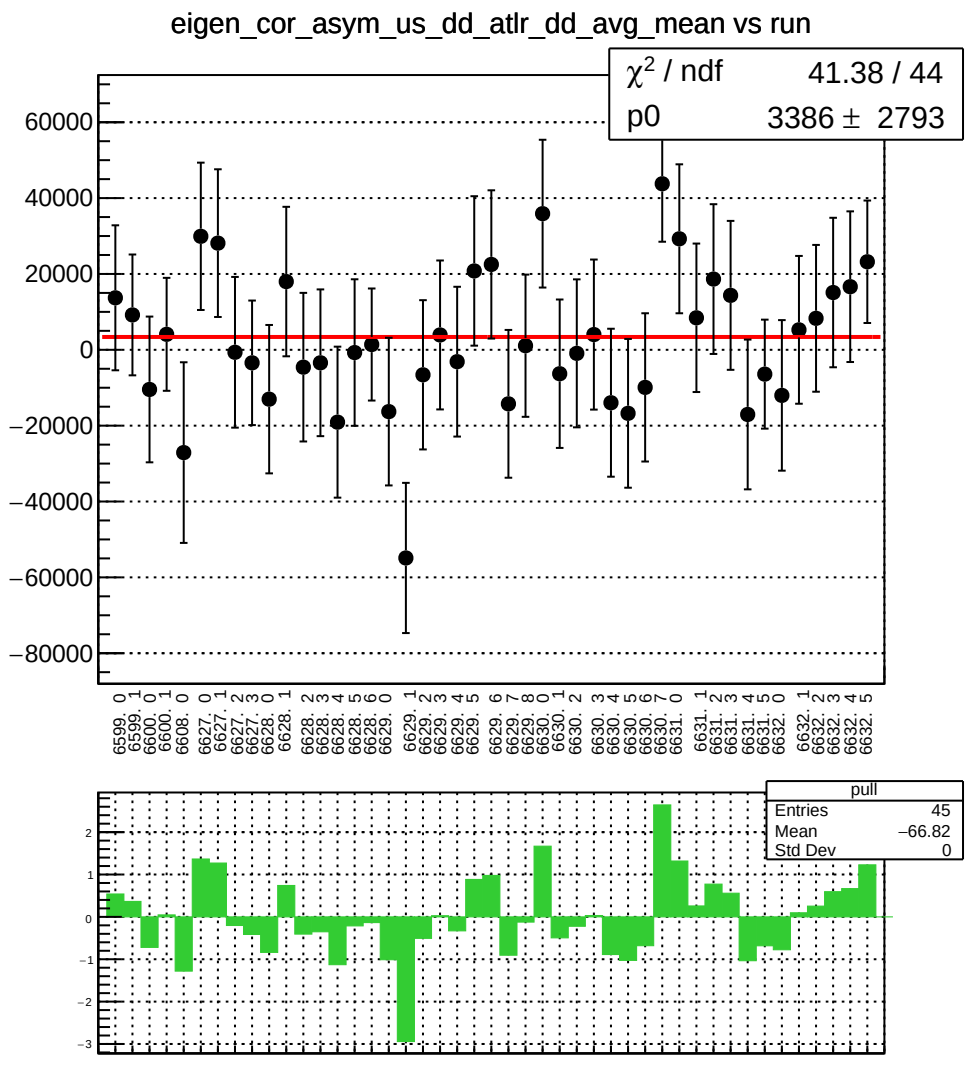
6632. 4
6632. 5


eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 41.38 / 44
p0 3386 ± 2793
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 3
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6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −66.82
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.02233
Std Dev 0.9587
8
7
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1
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−4
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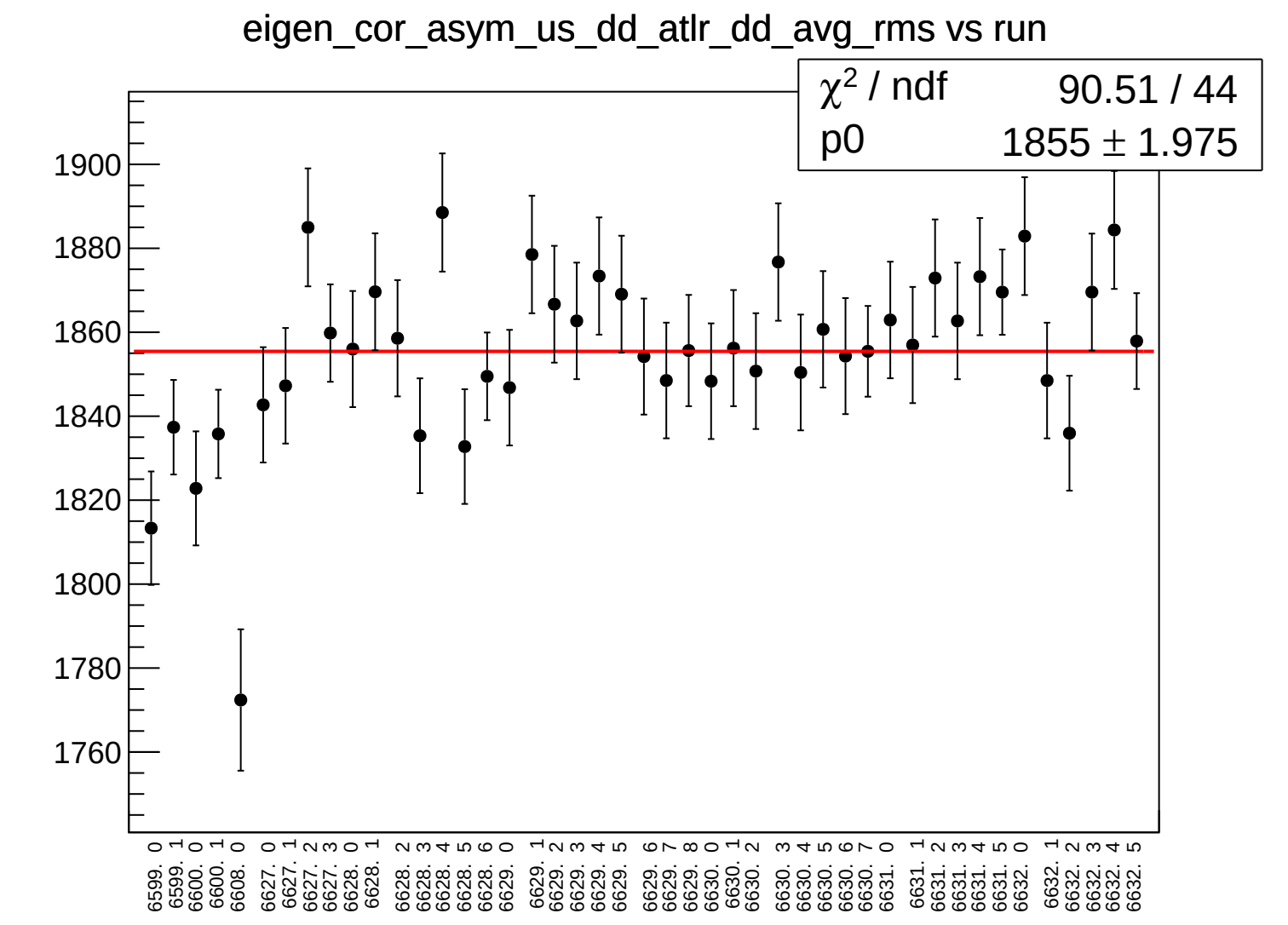
2
4
6
8


eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 90.51 / 44
p0 1855 ± 1.975
1900
1880
1860
1840
1820
1800
1780
1760
6599. 0
6599. 1
6600. 0
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6608. 0
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6631. 1
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6631. 5
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6632. 2
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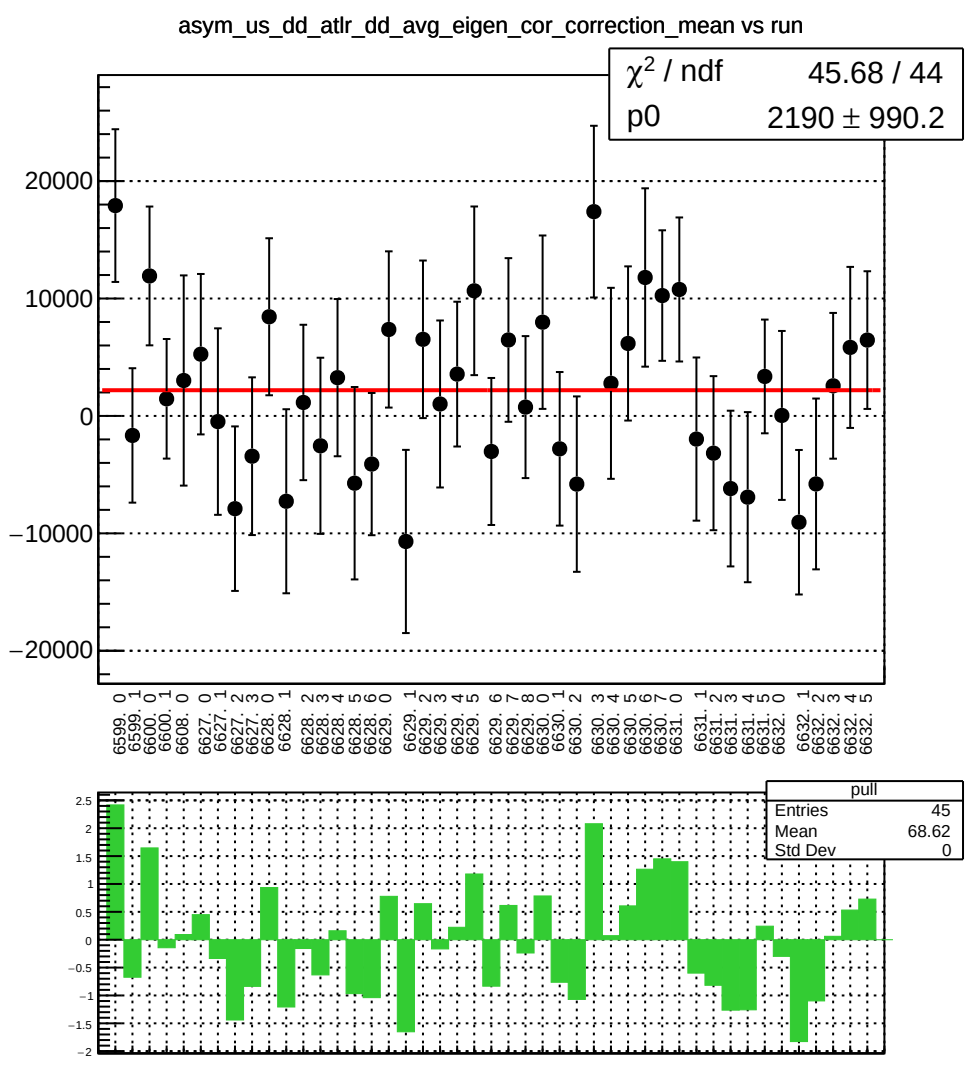
6632. 4
6632. 5


asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 45.68 / 44
p0 2190 ± 990.2
20000
10000
0
−10000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
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6630. 1
6630. 2
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6631. 2
6631. 3
6631. 4
6631. 5
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6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 68.62
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.02109
Std Dev 1.007
8
7
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1
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−6
−4
−2
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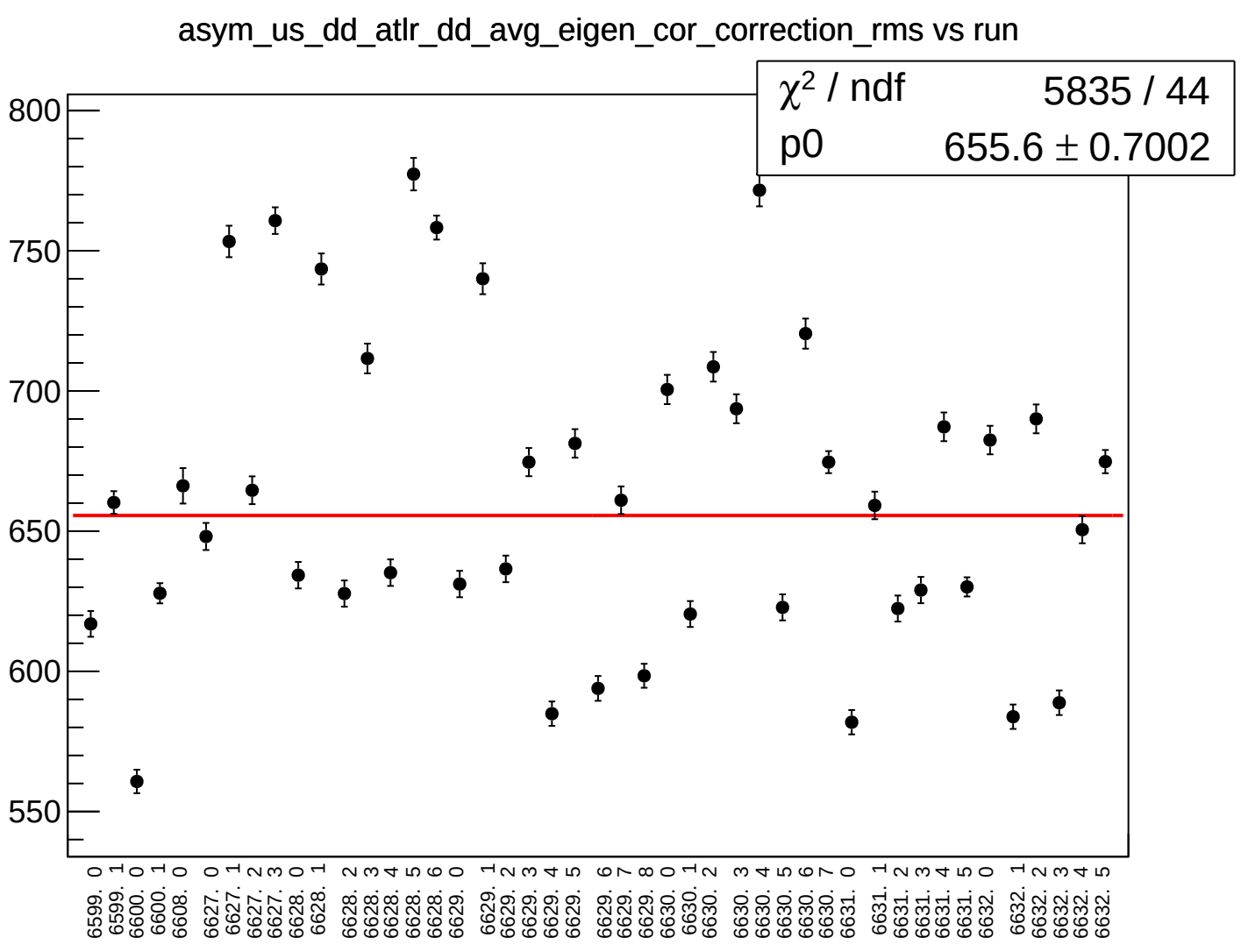
2
4
6
8


asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 5835 / 44
p0 655.6 ± 0.7002
800
750
700
650
600
550
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
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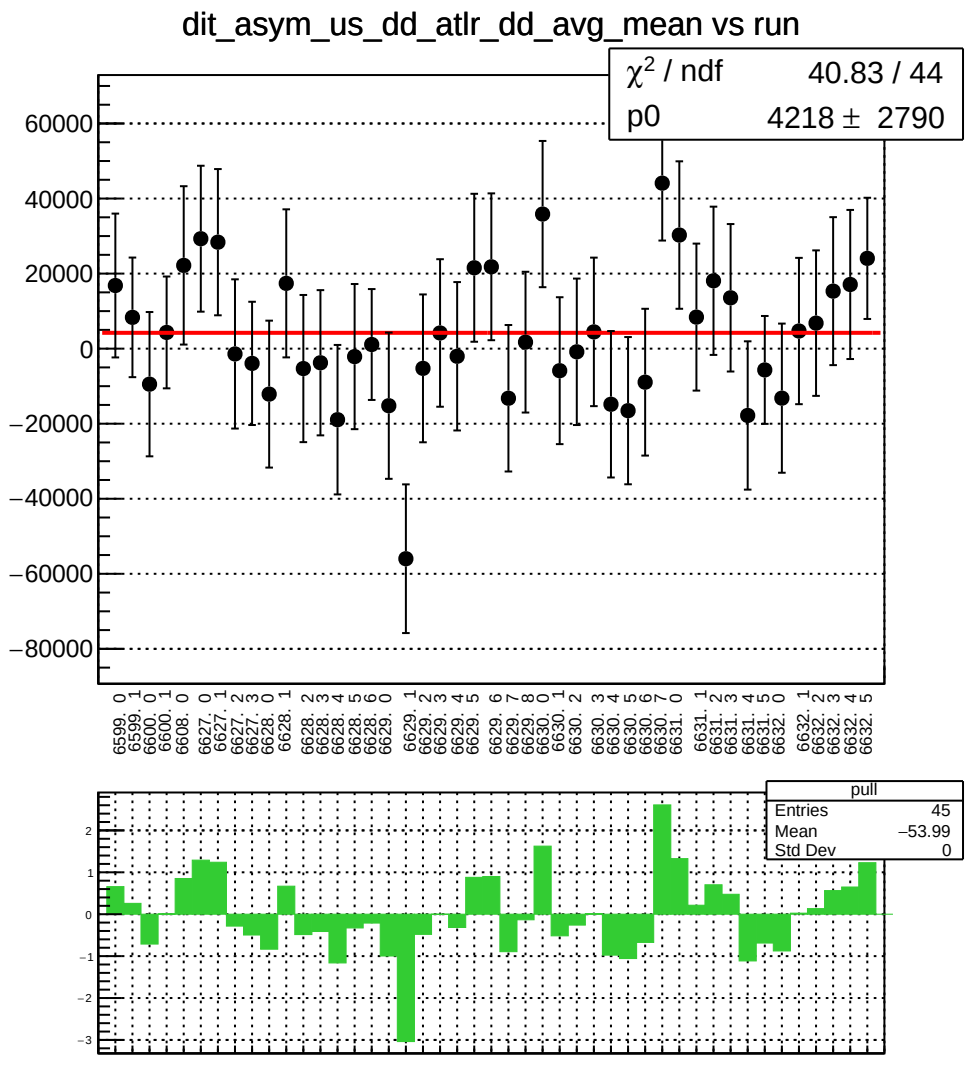
6632. 4
6632. 5


dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 40.83 / 44
p0 4218 ± 2790
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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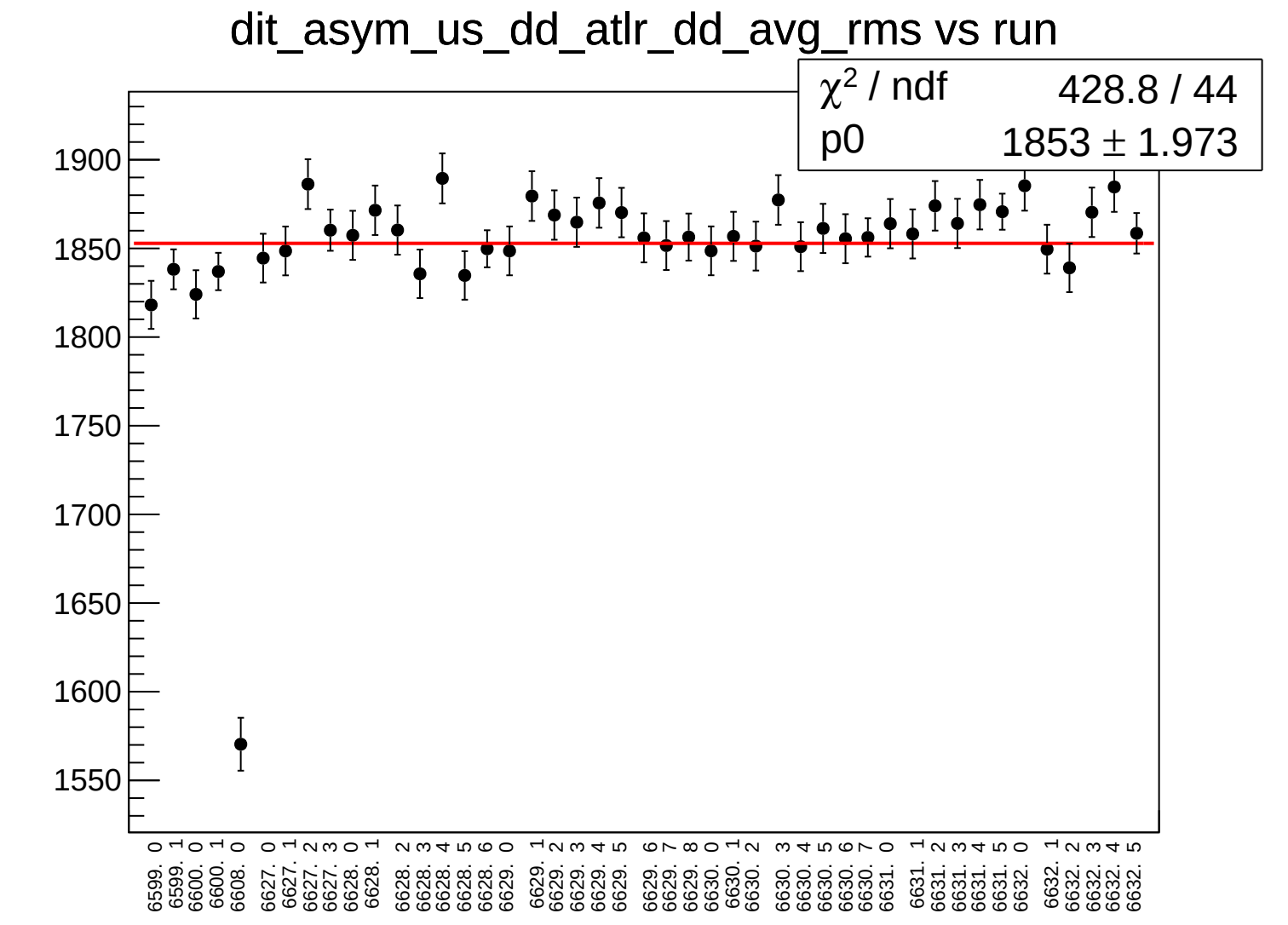
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −53.99
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.01405
Std Dev 0.9524
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 428.8 / 44
p0 1853 ± 1.973
1900
1850
1800
1750
1700
1650
1600
1550
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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6632. 2
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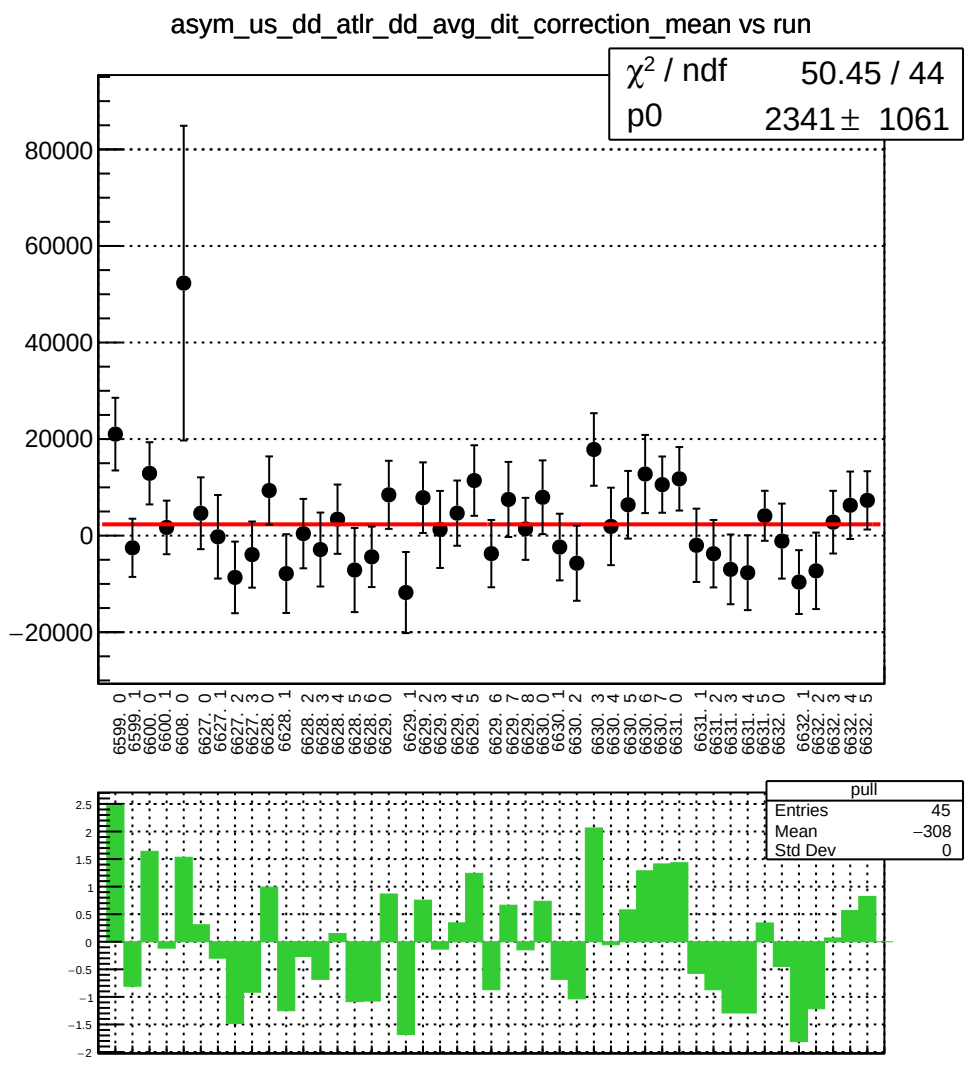
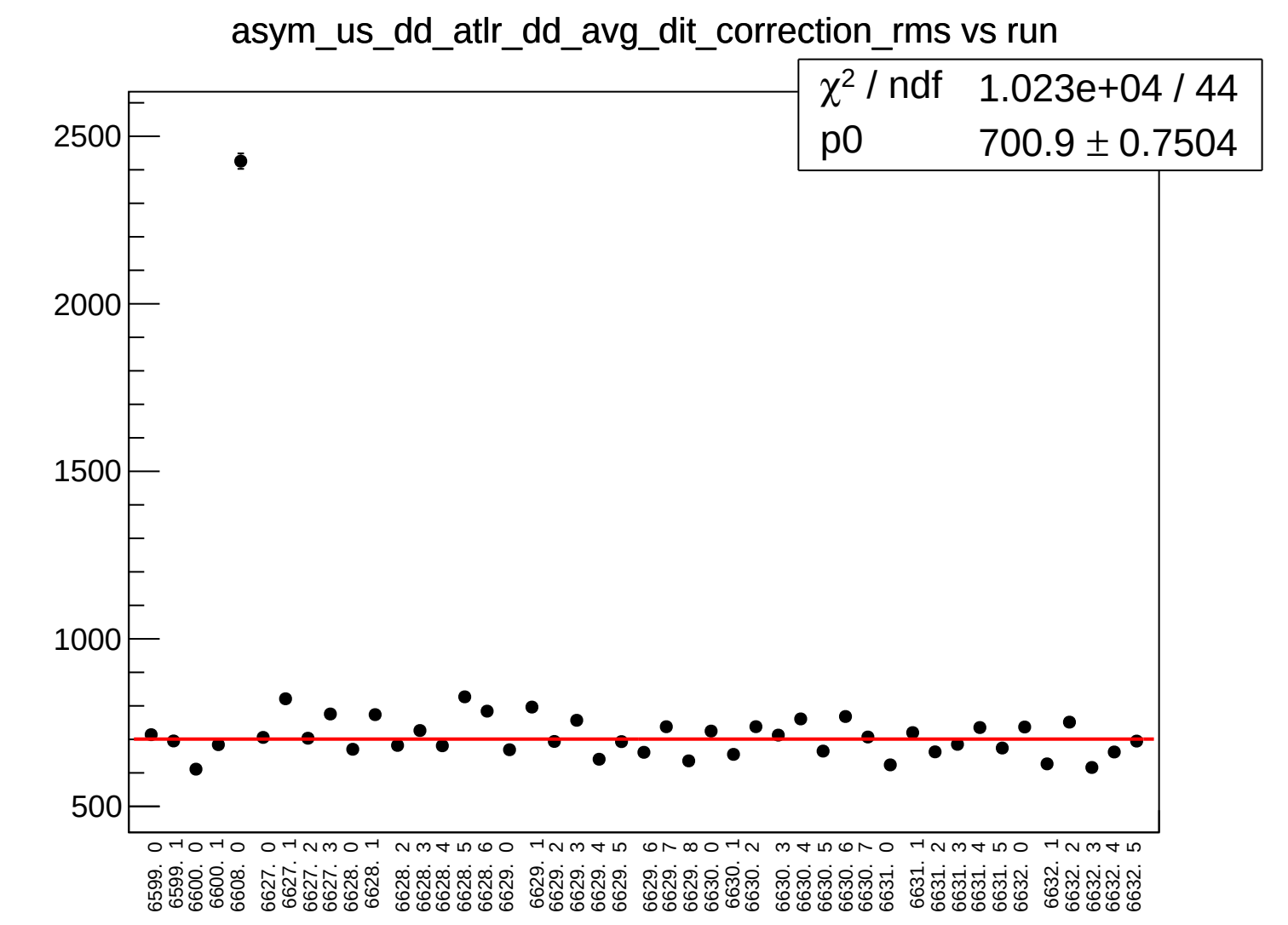
6632. 4
6632. 5


asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
χ² / ndf 50.45 / 44
p0 2341 ± 1061
80000
60000
40000
20000
0
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −308
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.004386
Std Dev 1.059
7
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 1.023e+04 / 44
p0 700.9 ± 0.7504
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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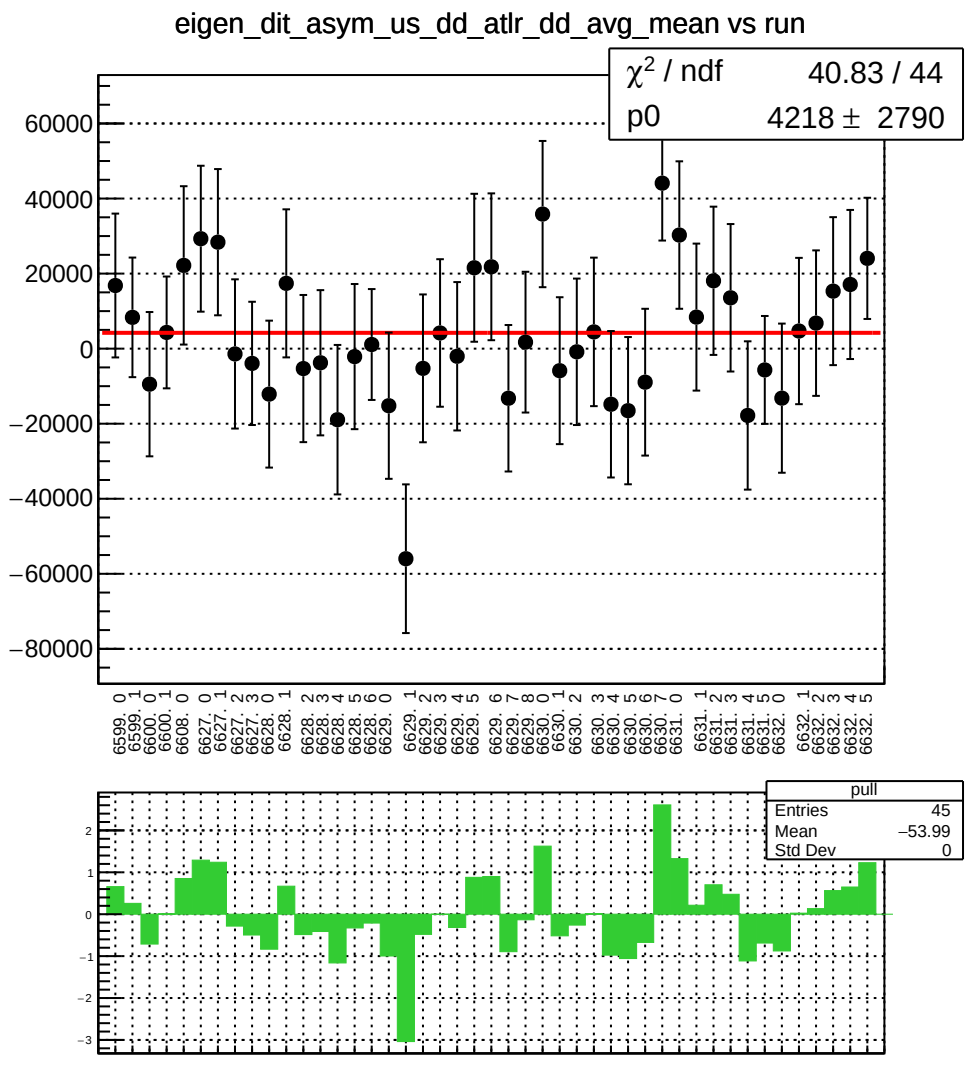
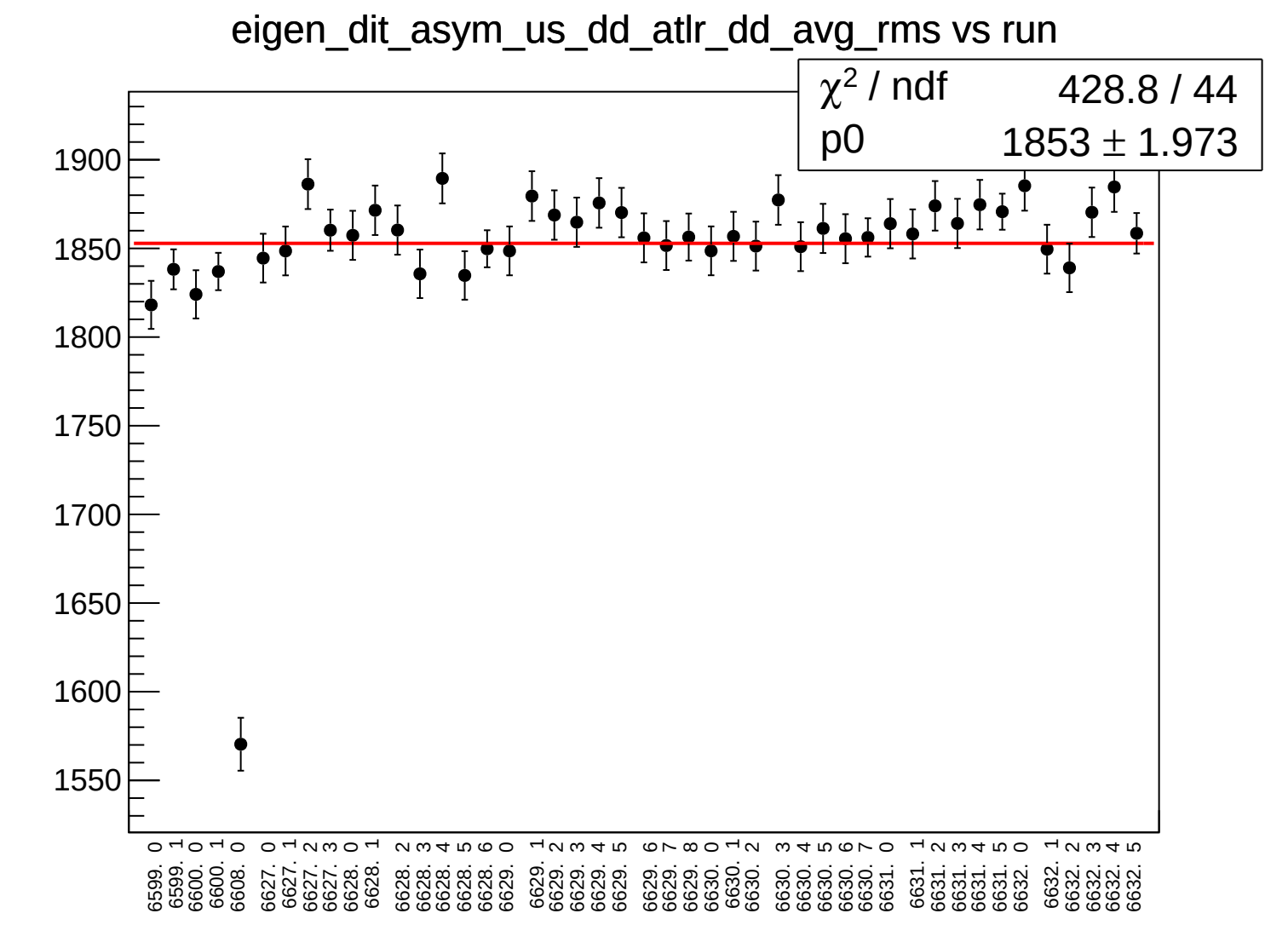
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 40.83 / 44
p0 4218 ± 2790
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −53.99
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.01405
Std Dev 0.9524
8
7
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 428.8 / 44
p0 1853 ± 1.973
1900
1850
1800
1750
1700
1650
1600
1550
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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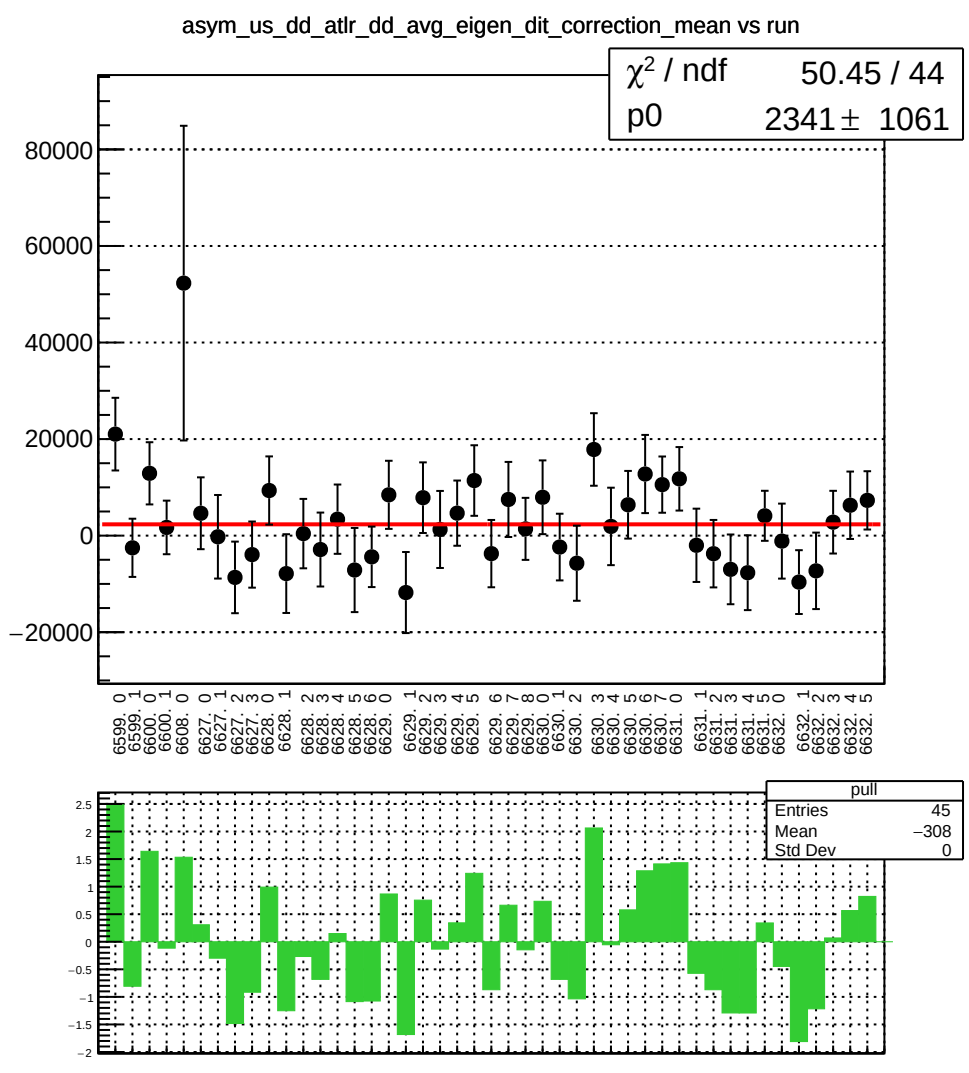
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 50.45 / 44
p0 2341 ± 1061
80000
60000
40000
20000
0
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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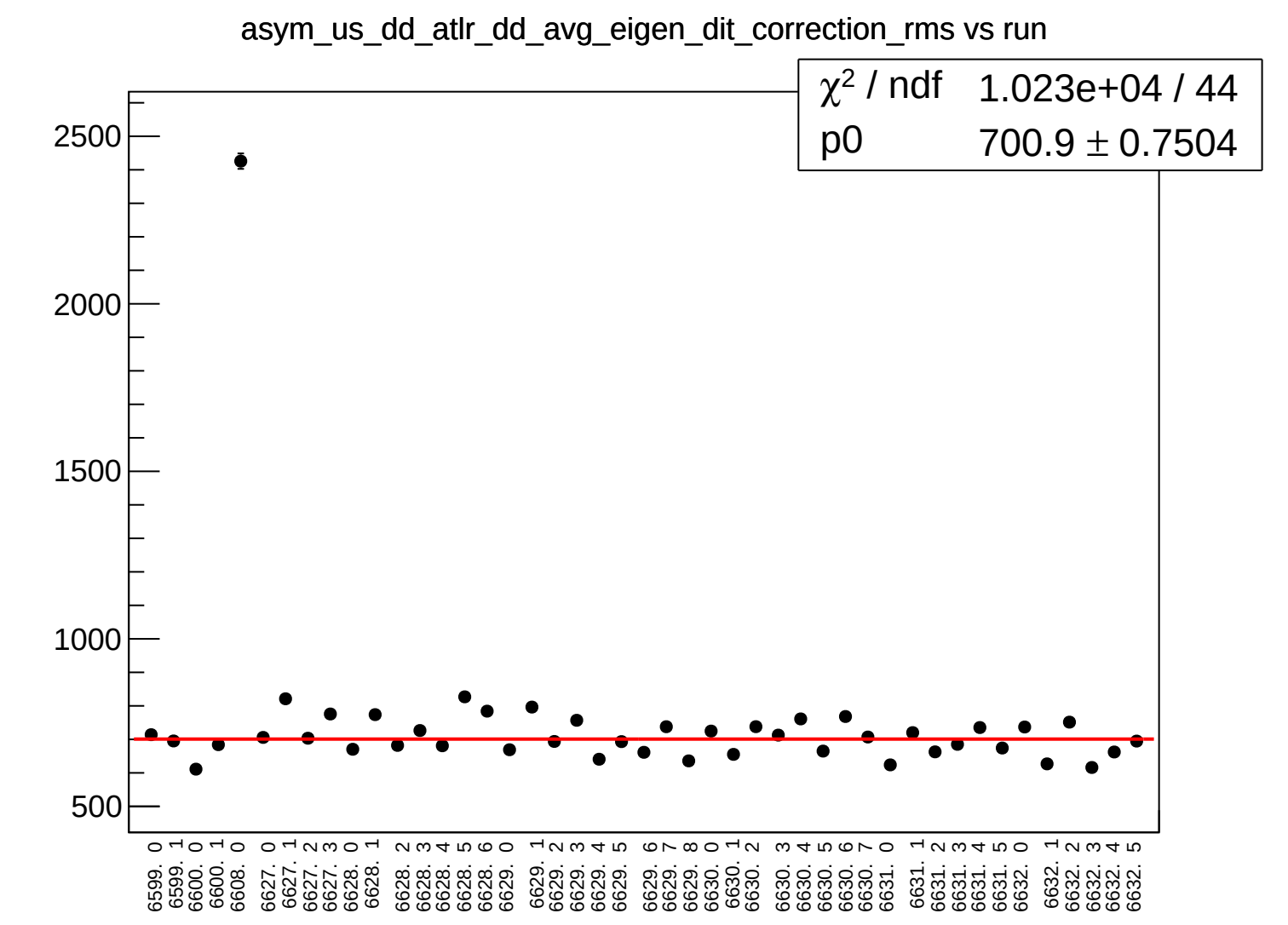
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −308
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.004386
Std Dev 1.059
7
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 1.023e+04 / 44
p0 700.9 ± 0.7504
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
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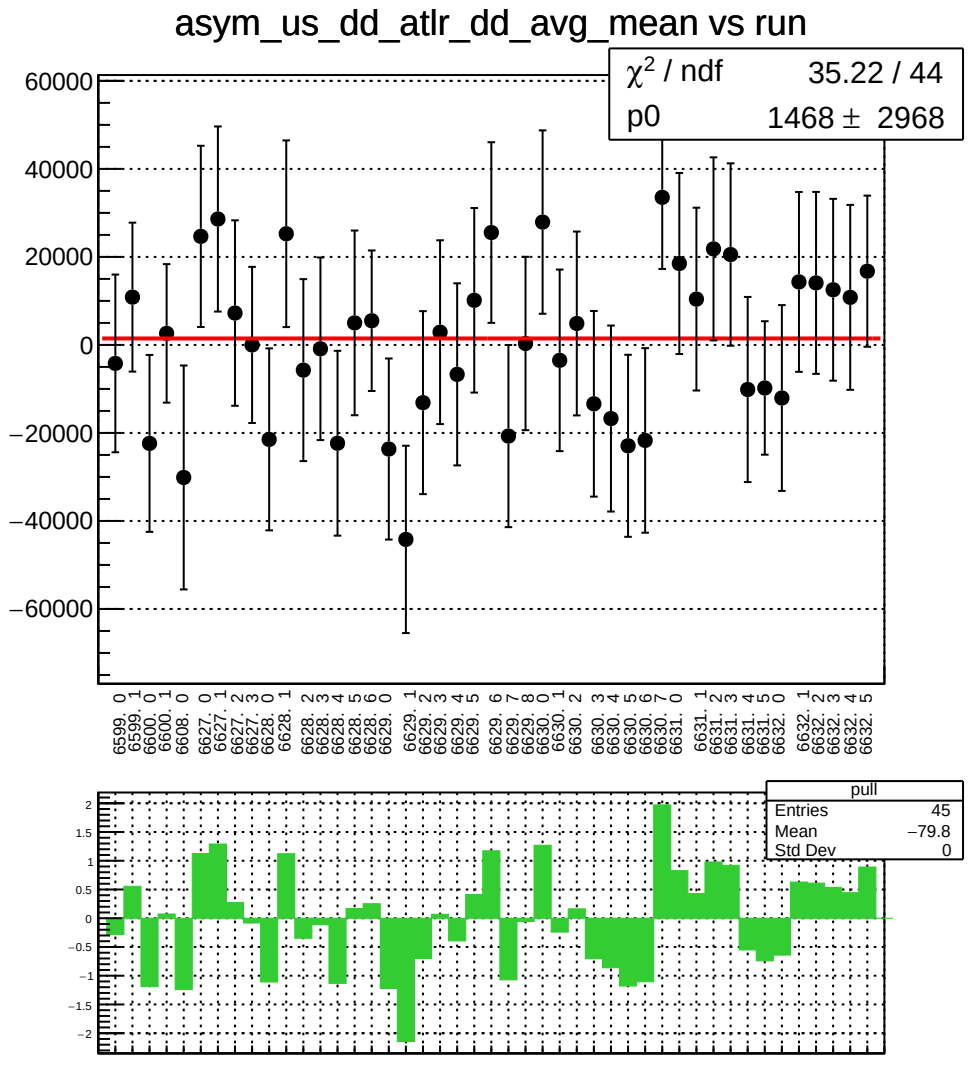
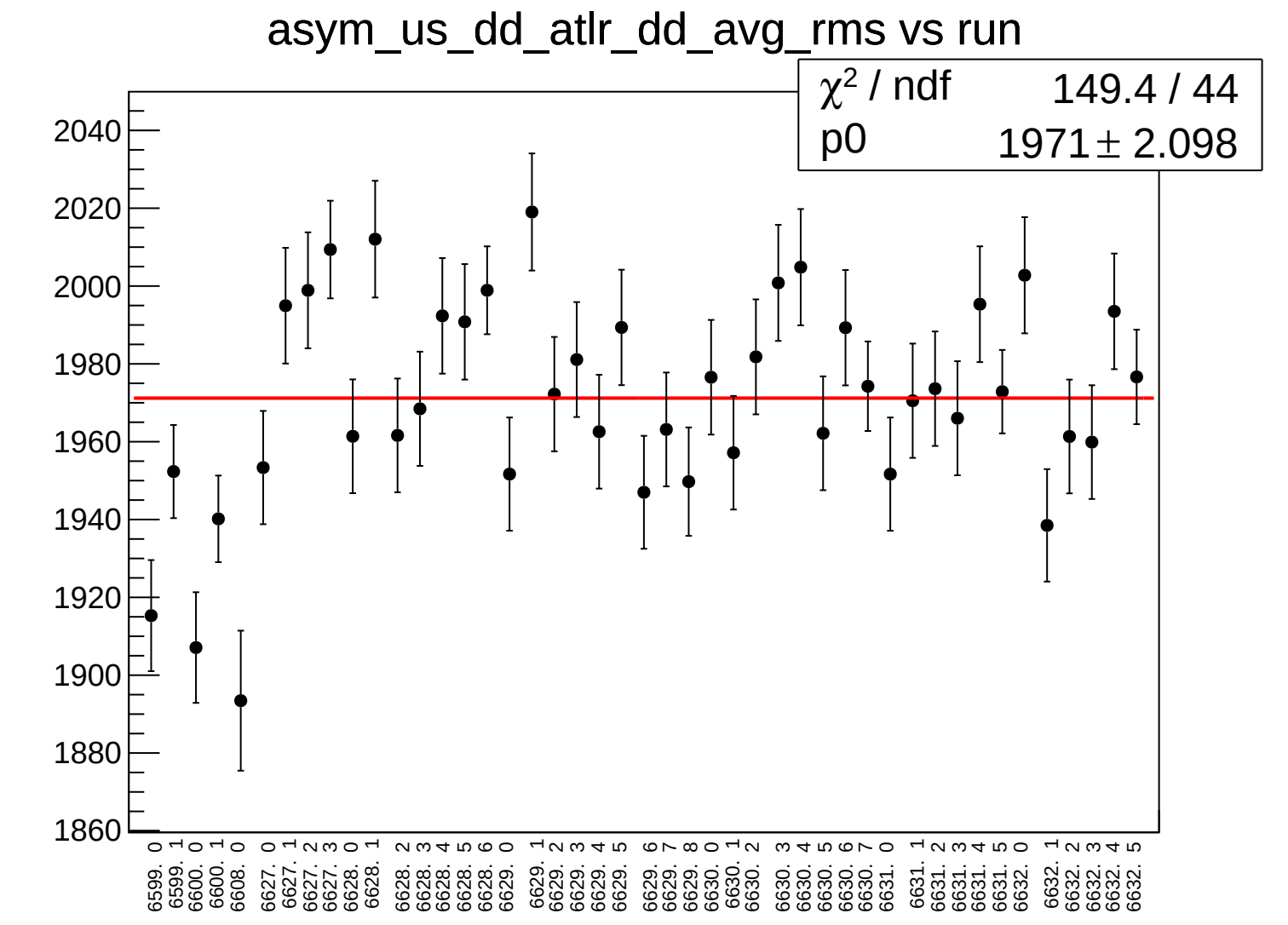
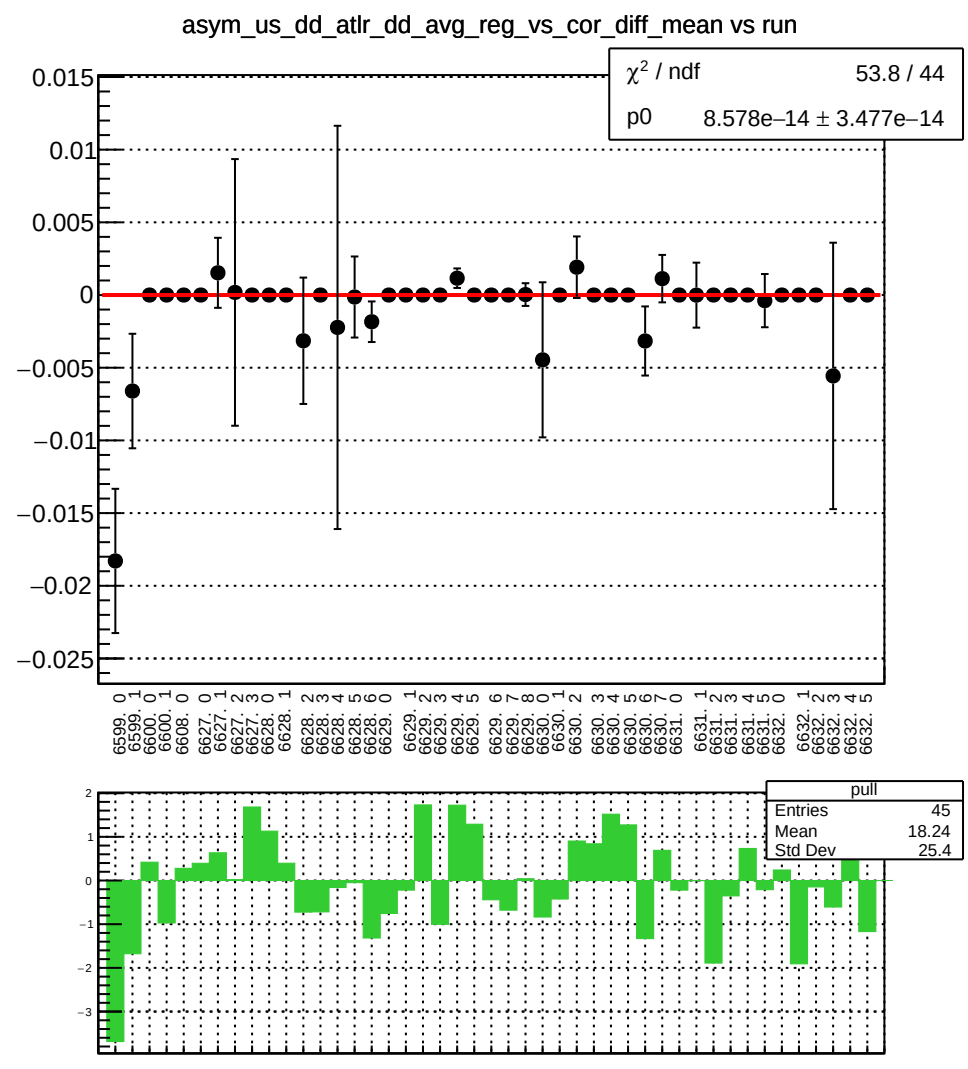
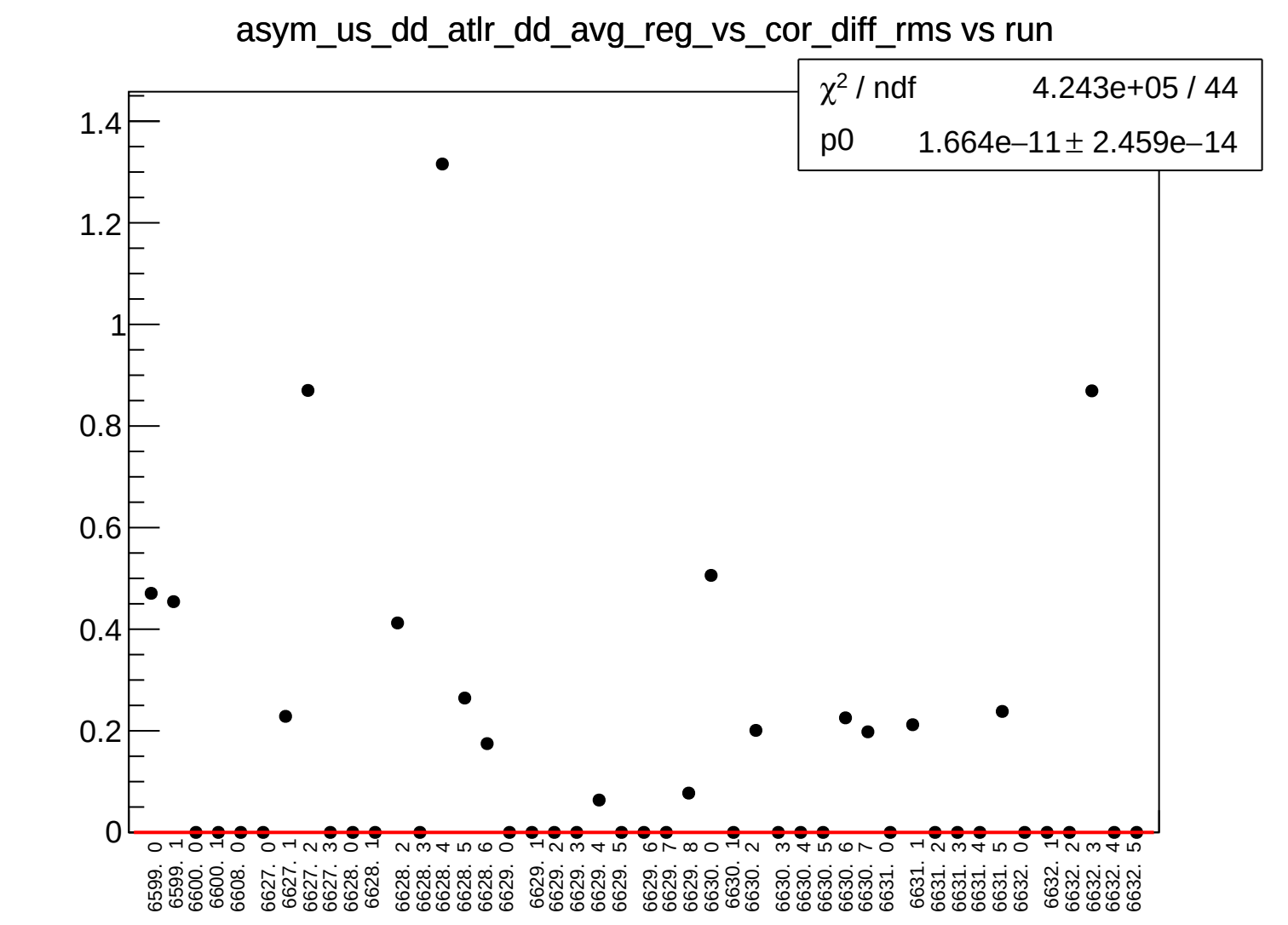
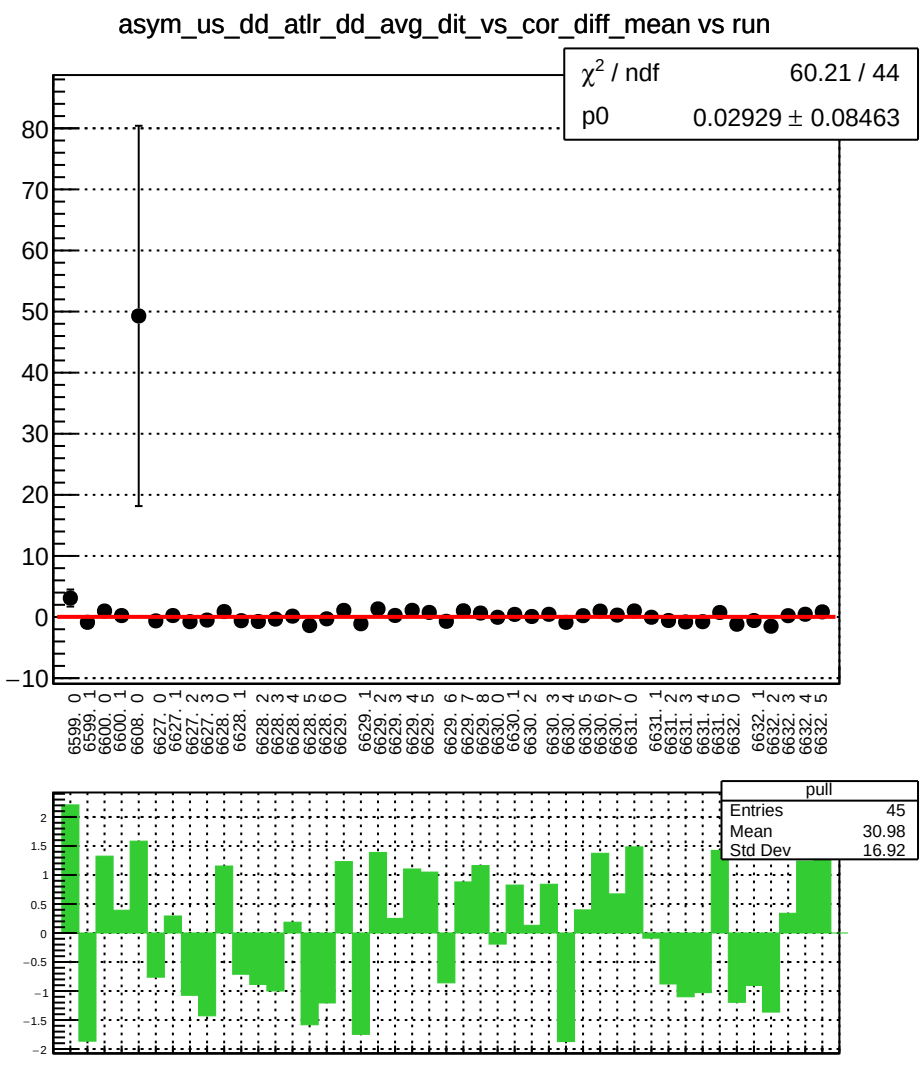
6632. 2
6632. 3
6632. 4
6632. 5

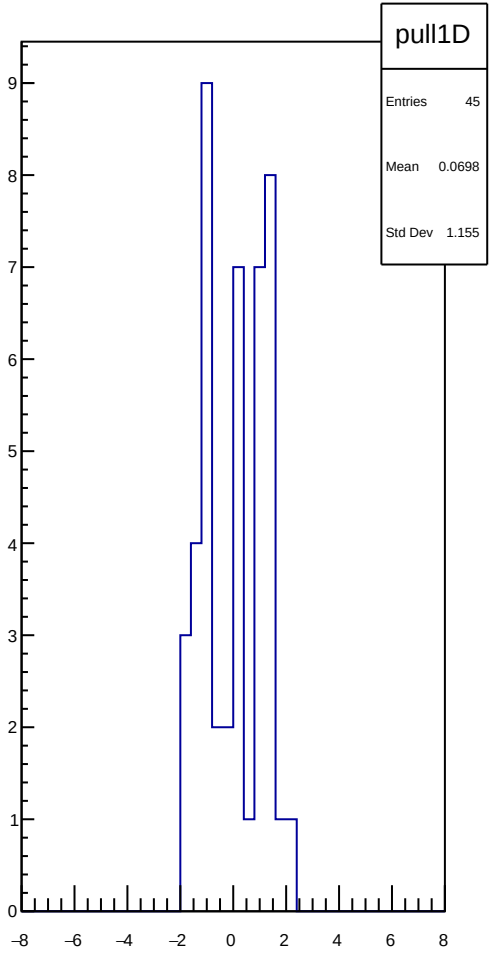

asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 35.22 / 44
p0 1468 ± 2968
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −79.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.02051
Std Dev 0.8844
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

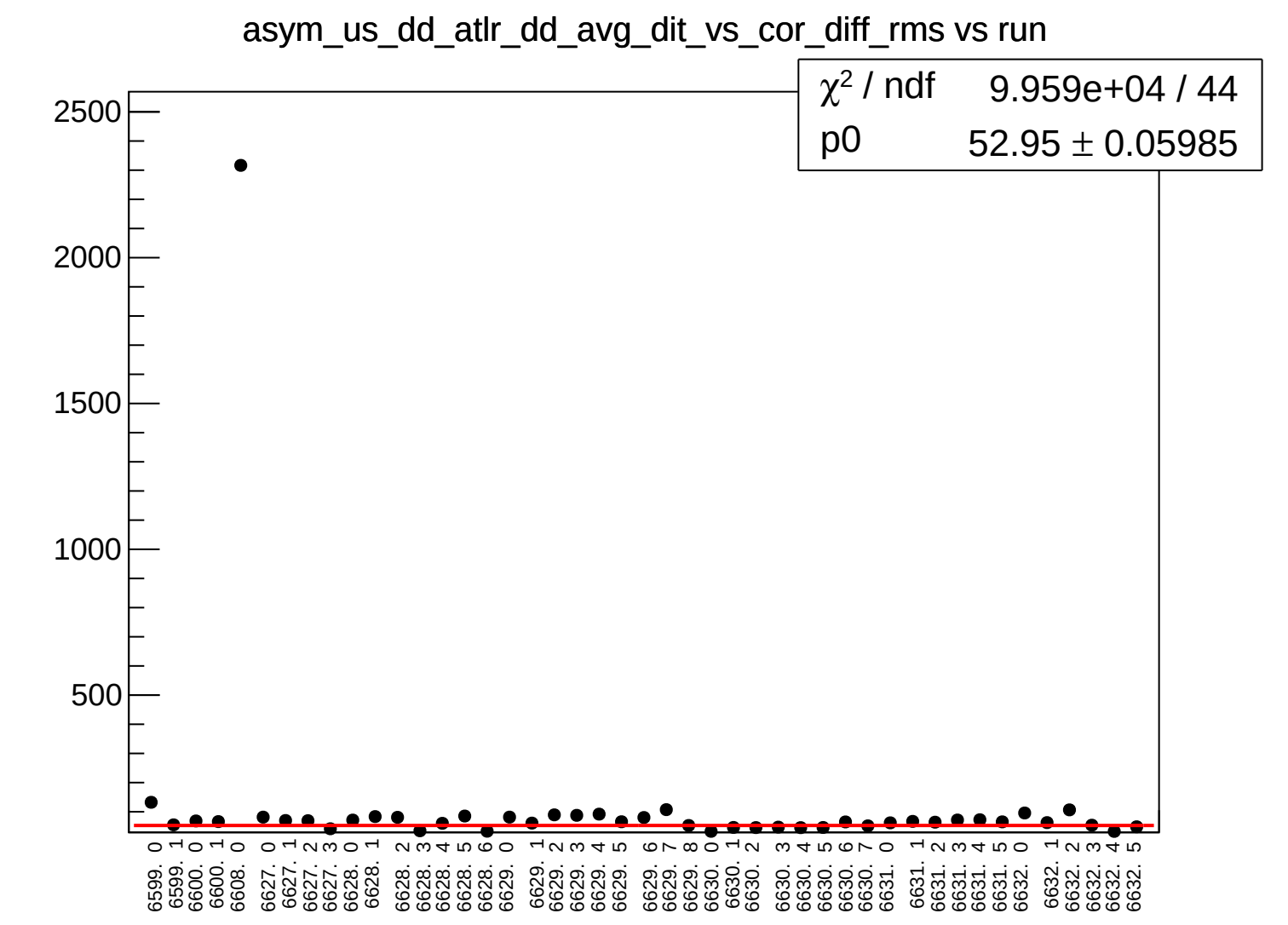

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 149.4 / 44
p0 1971 ± 2.098
2040
2020
2000
1980
1960
1940
1920
1900
1880
1860
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

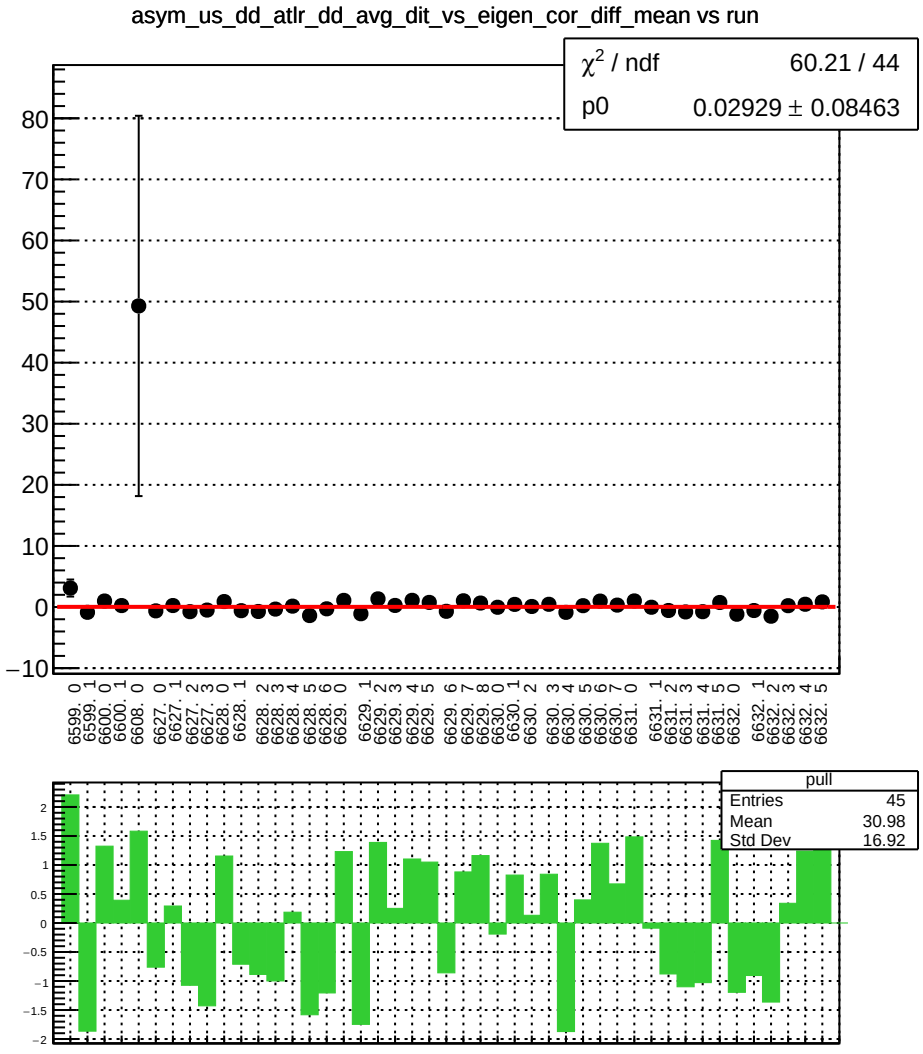

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 53.8 / 44
p0 8.578e−14 ± 3.477e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 18.24
Std Dev 25.4
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.1112
Std Dev 1.088
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

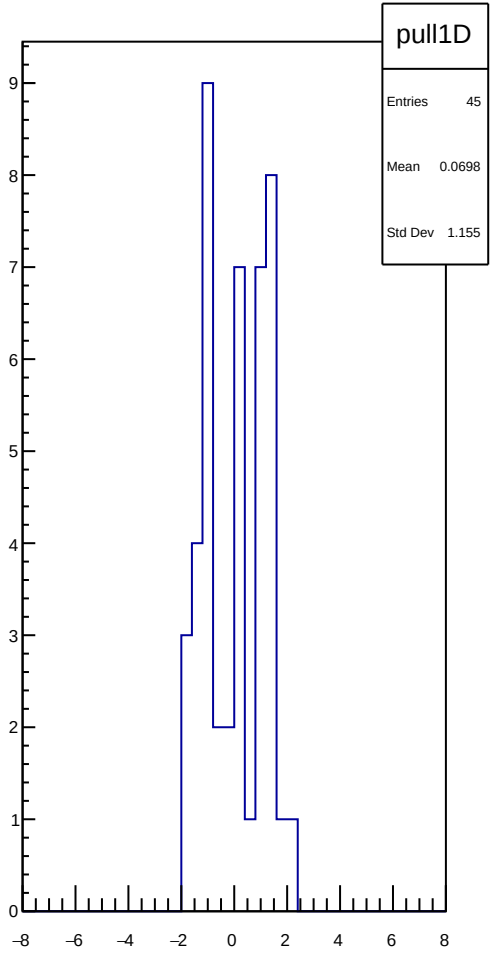

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.243e+05 / 44
p0 1.664e−11 ± 2.459e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

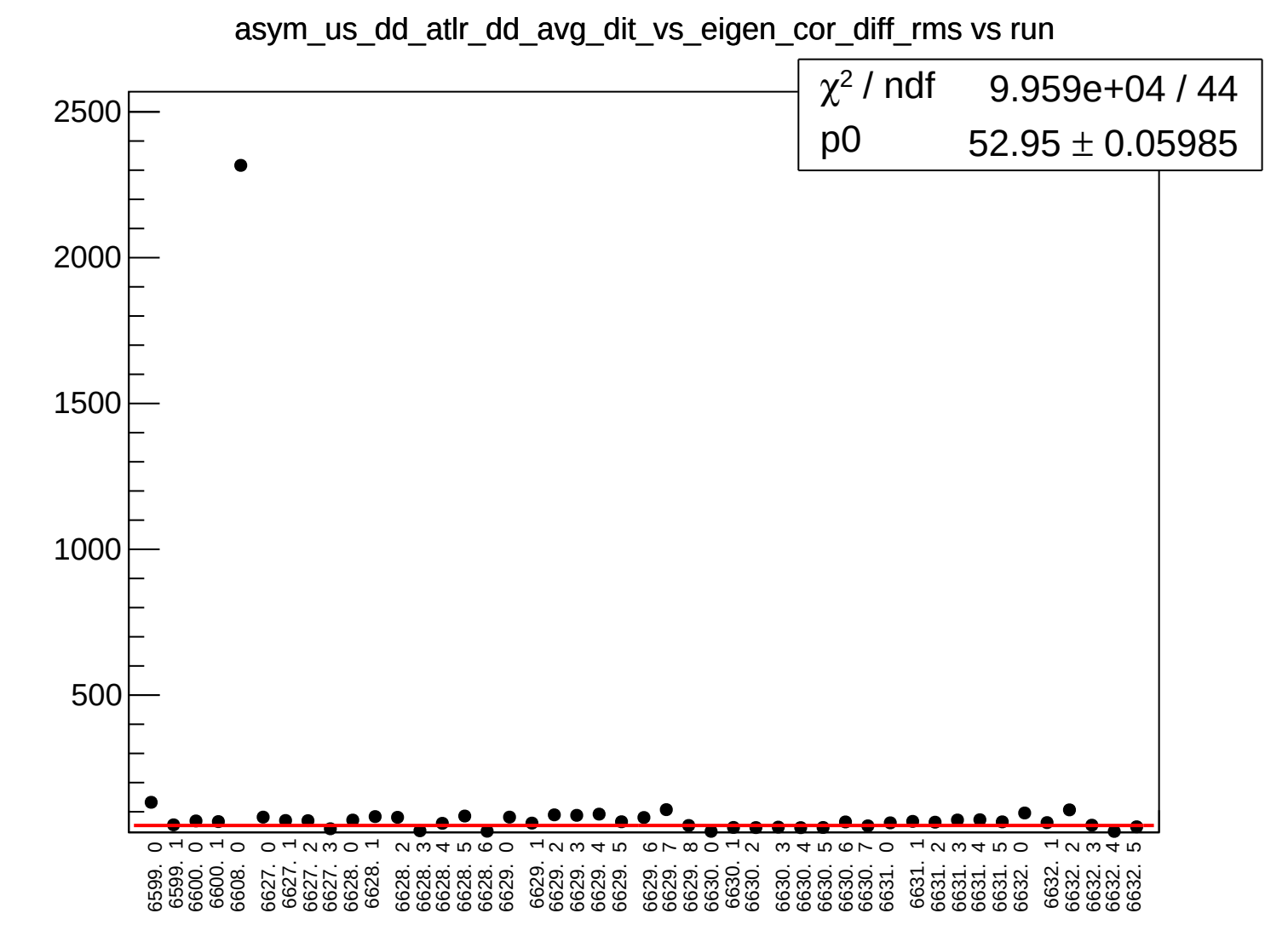

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 60.21 / 44
p0 0.02929 ± 0.08463
pull
Entries 45
Mean 30.98
Std Dev 16.92


pull1D
Entries 45
Mean 0.0698
Std Dev 1.155


asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.959e+04 / 44
p0 52.95 ± 0.05985
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 60.21 / 44
p0 0.02929 ± 0.08463
pull
Entries 45
Mean 30.98
Std Dev 16.92


pull1D
Entries 45
Mean 0.0698
Std Dev 1.155


asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.959e+04 / 44
p0 52.95 ± 0.05985
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
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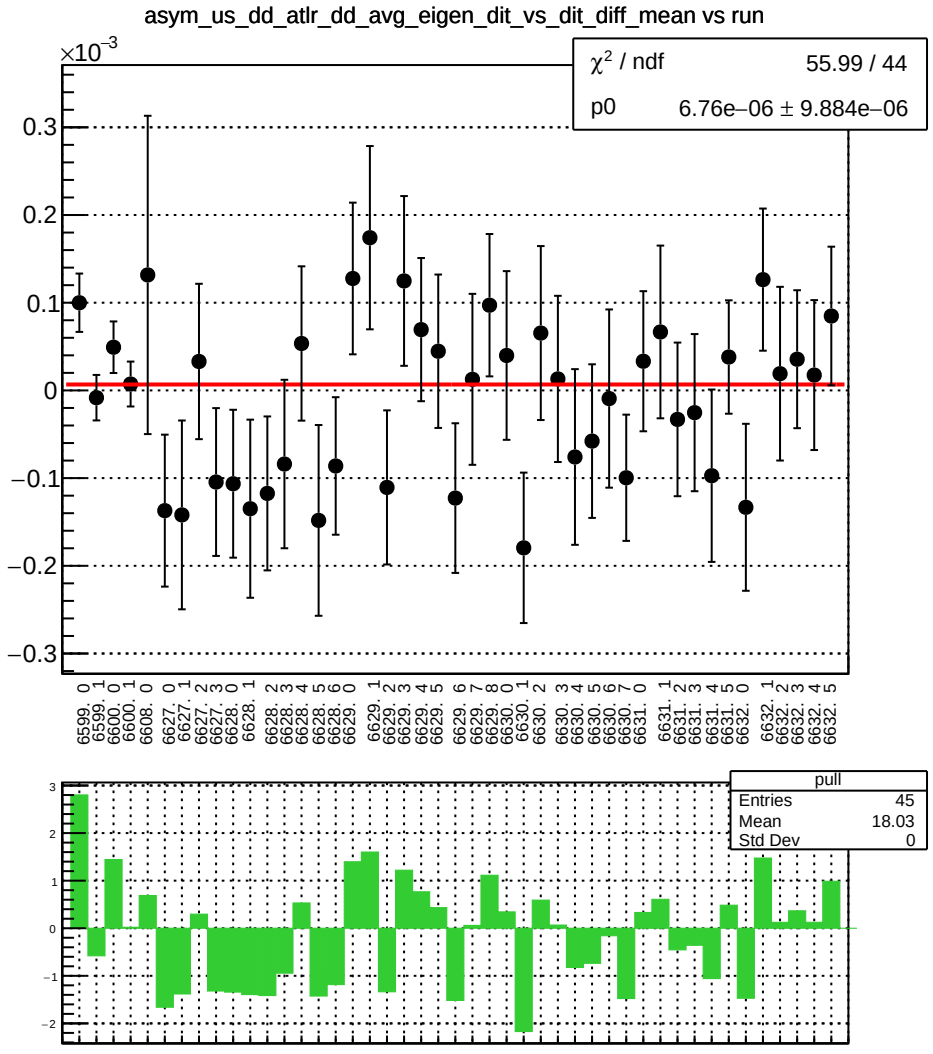
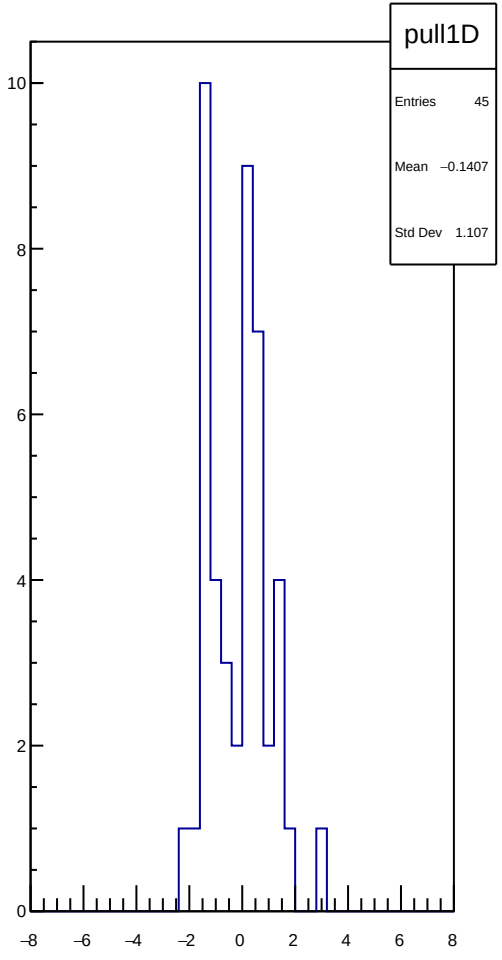
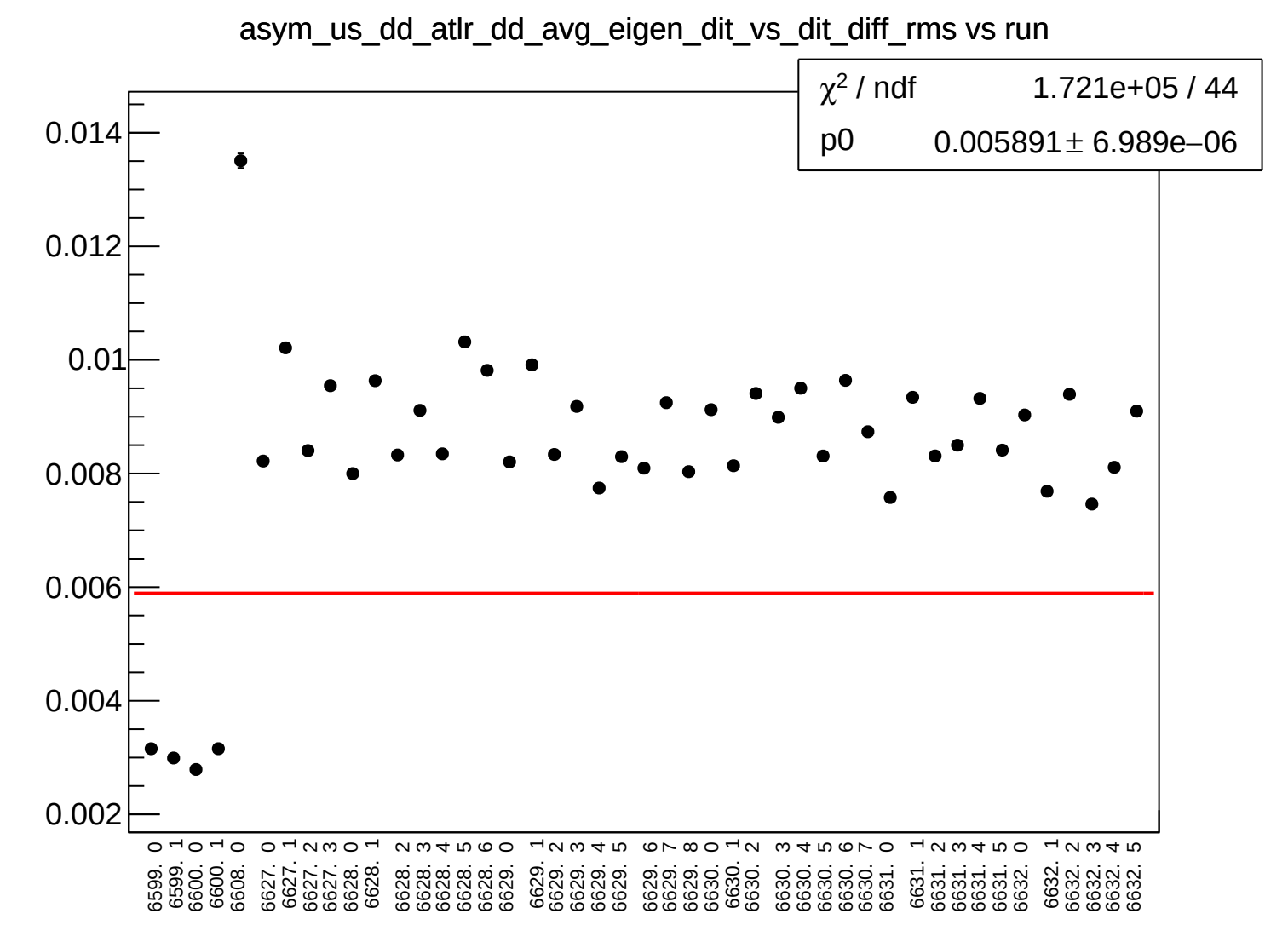
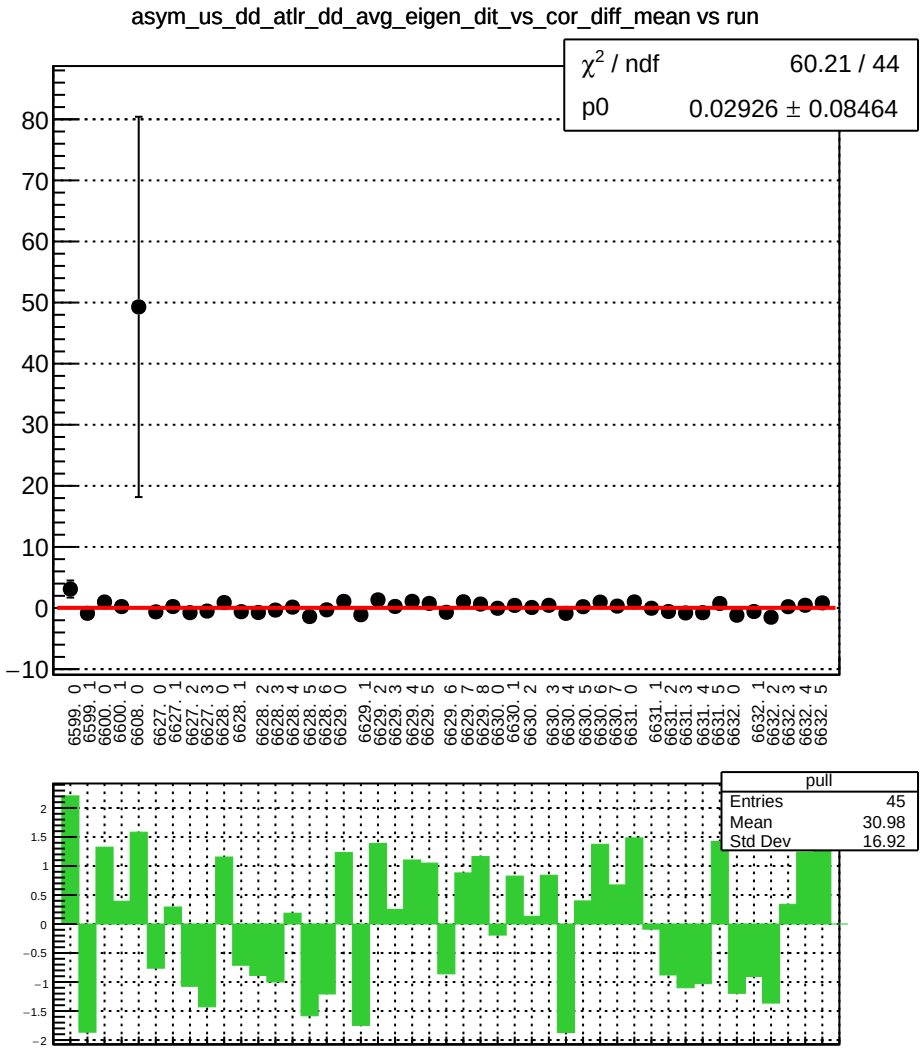
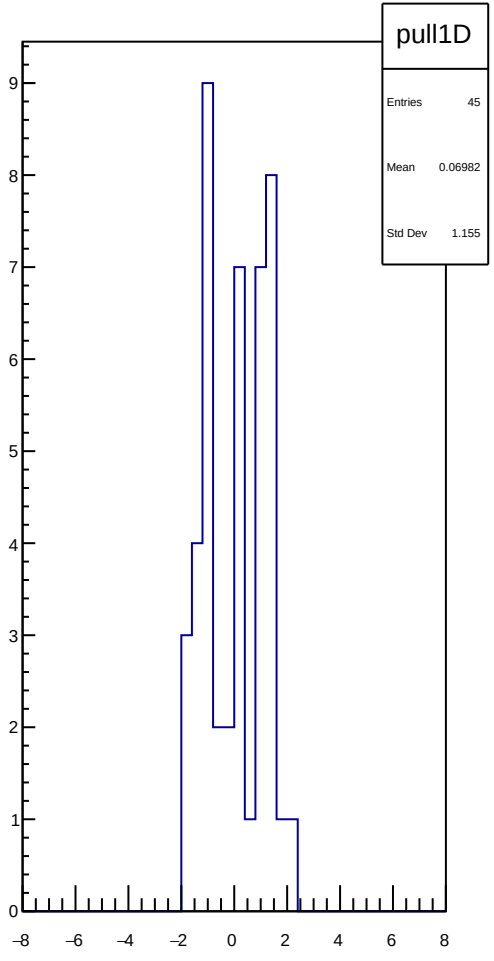
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

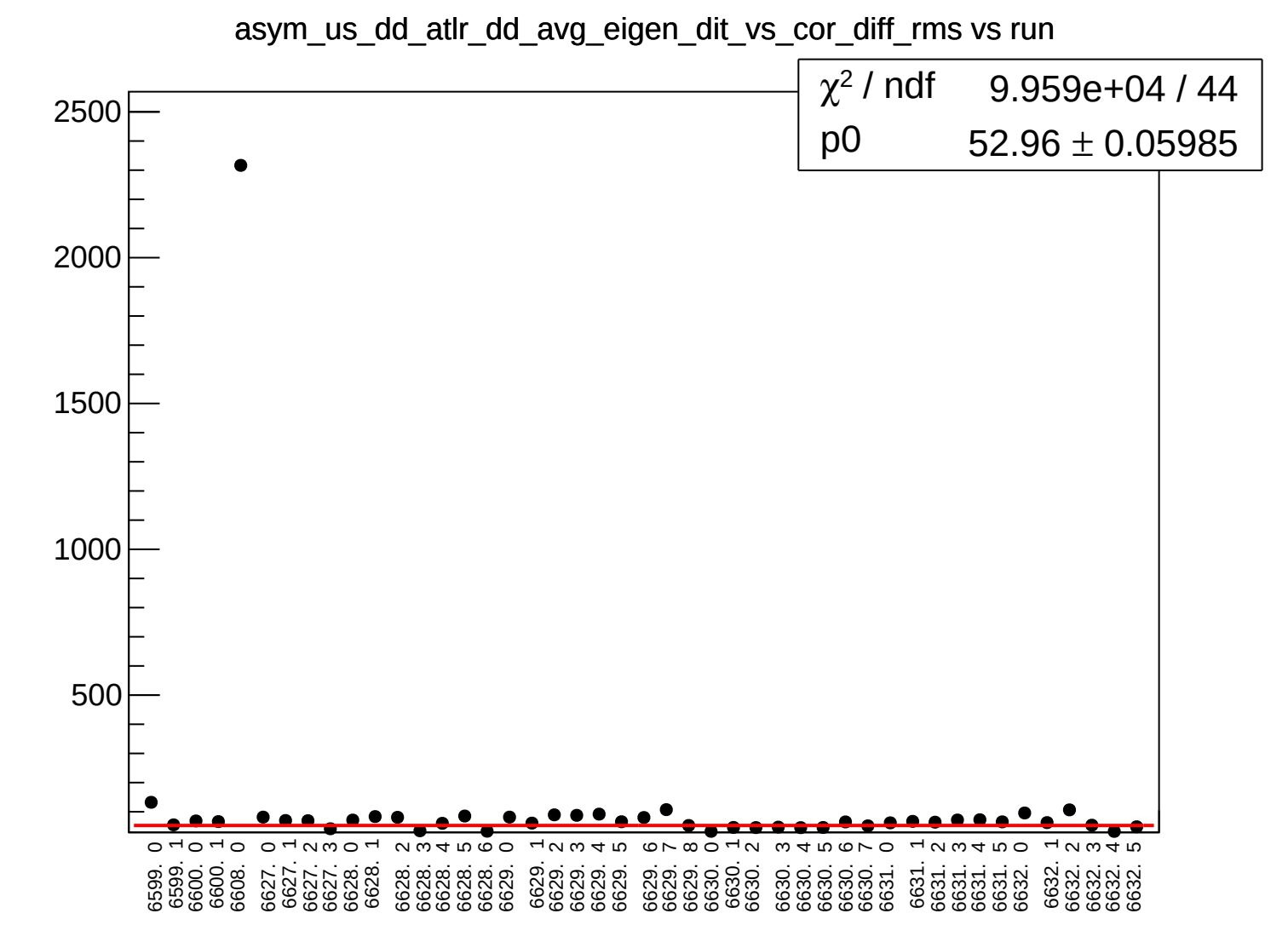

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 55.99 / 44
p0 6.76e−06 ± 9.884e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 18.03
Std Dev 0
3
2
1
0
−1
−2

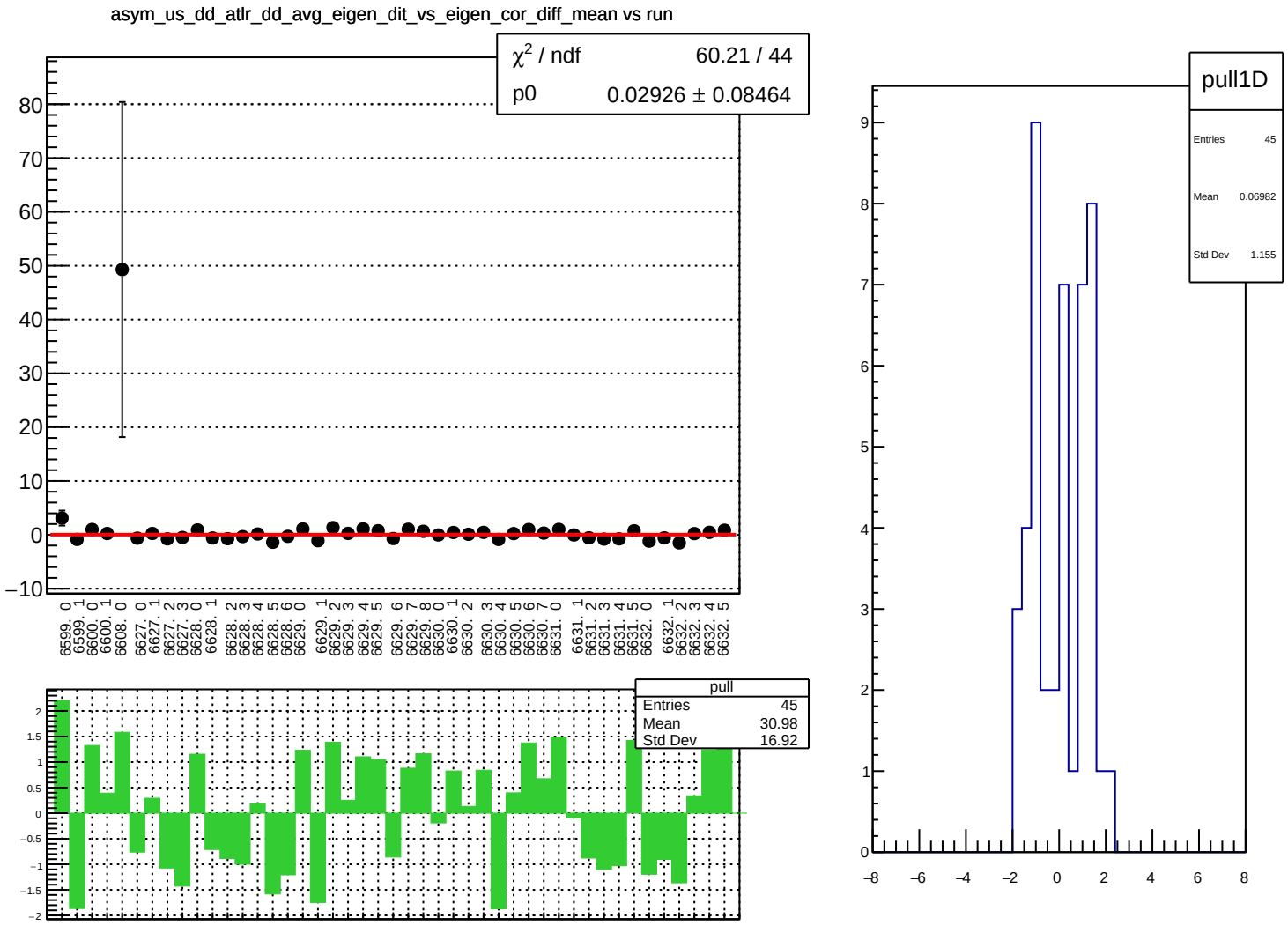

pull1D
Entries 45
Mean −0.1407
Std Dev 1.107
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

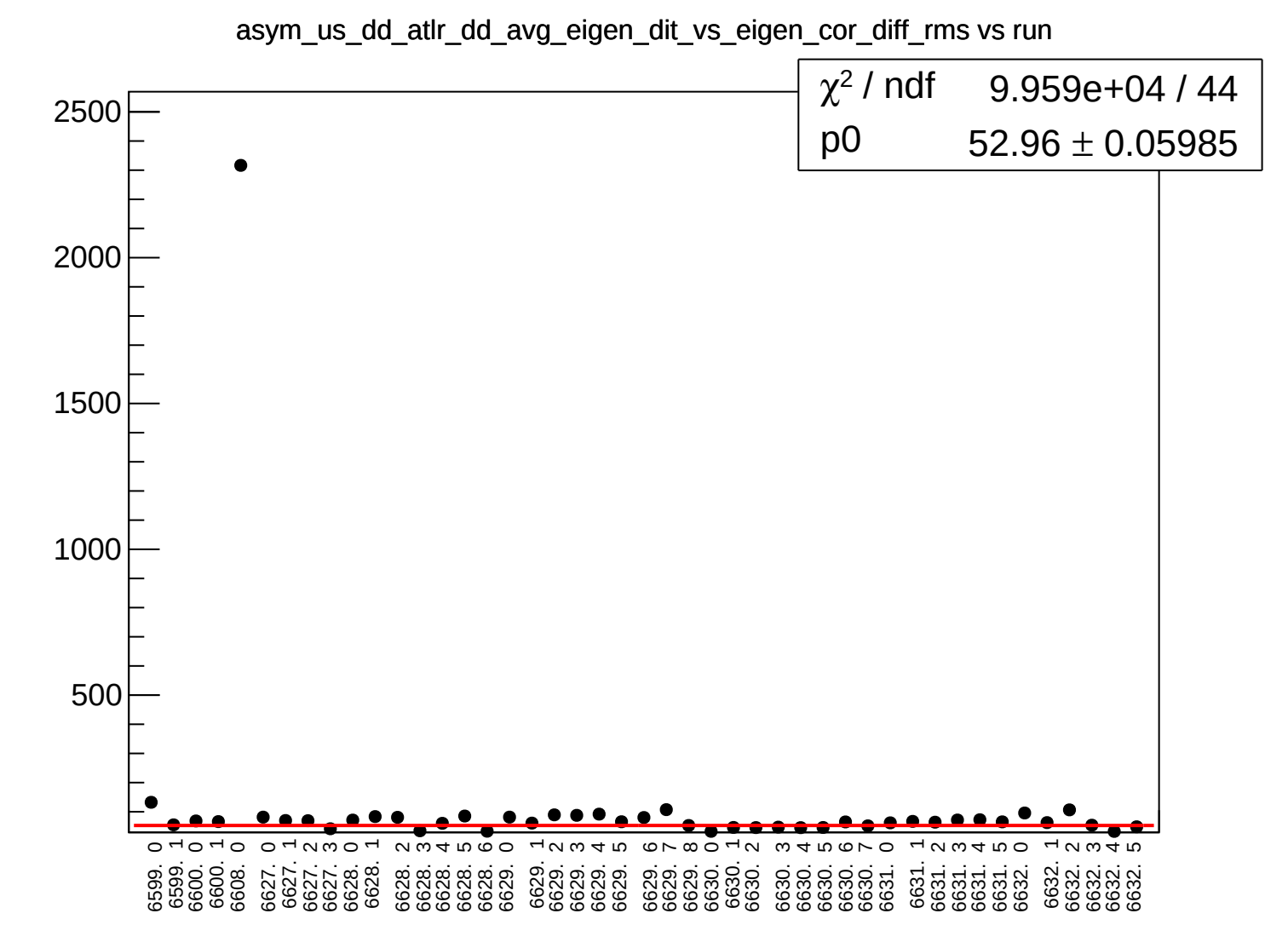

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.721e+05 / 44
p0 0.005891 ± 6.989e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

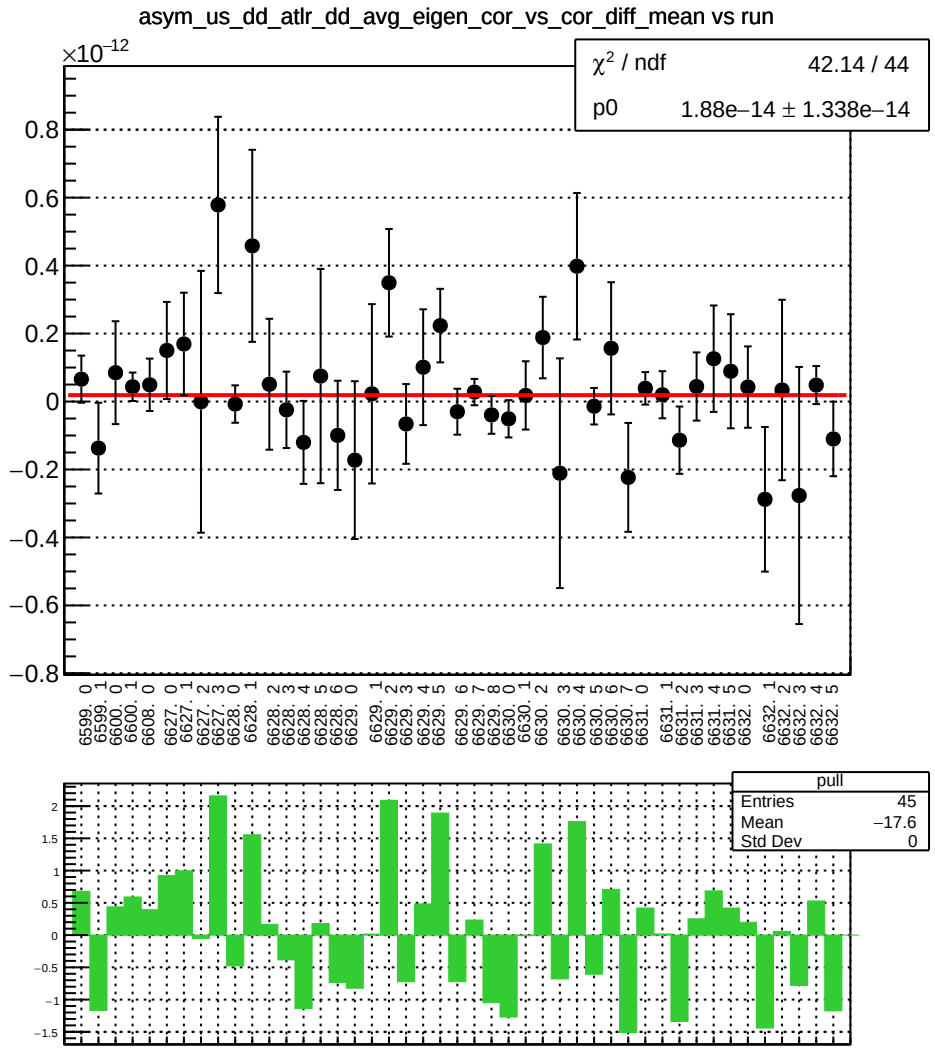

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 60.21 / 44
p0 0.02926 ± 0.08464
pull
Entries 45
Mean 30.98
Std Dev 16.92

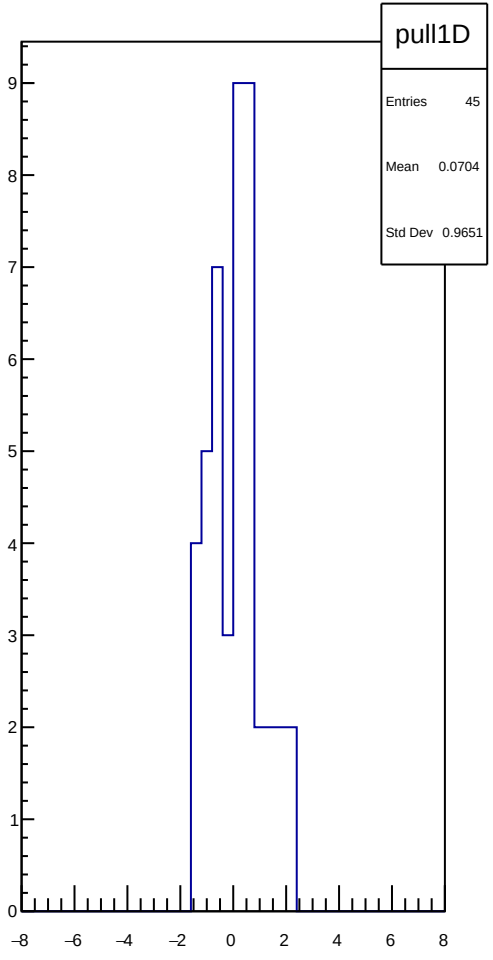

pull1D
Entries 45
Mean 0.06982
Std Dev 1.155

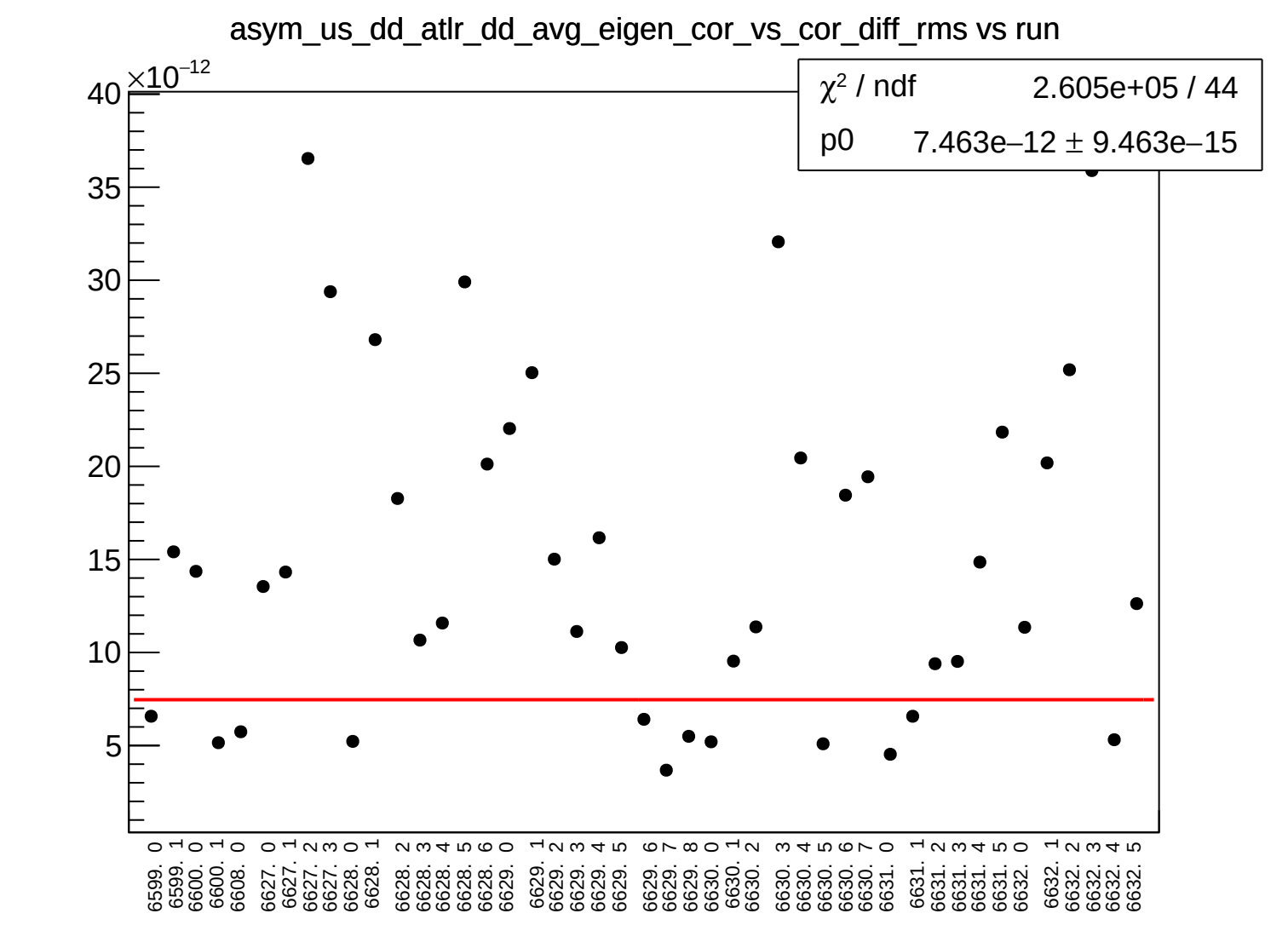

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.959e+04 / 44
p0 52.96 ± 0.05985
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

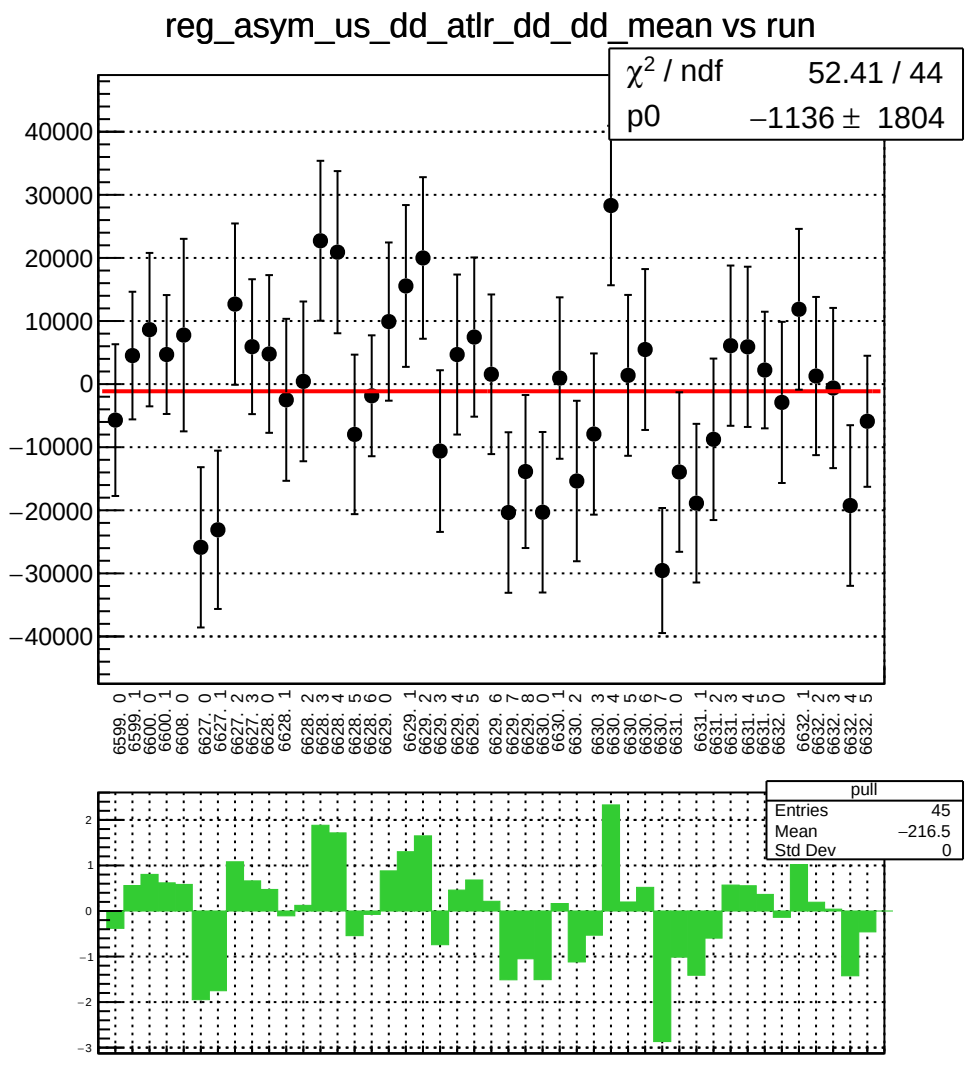

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 60.21 / 44
p0 0.02926 ± 0.08464
pull
Entries 45
Mean 30.98
Std Dev 16.92
pull1D
Entries 45
Mean 0.06982
Std Dev 1.155

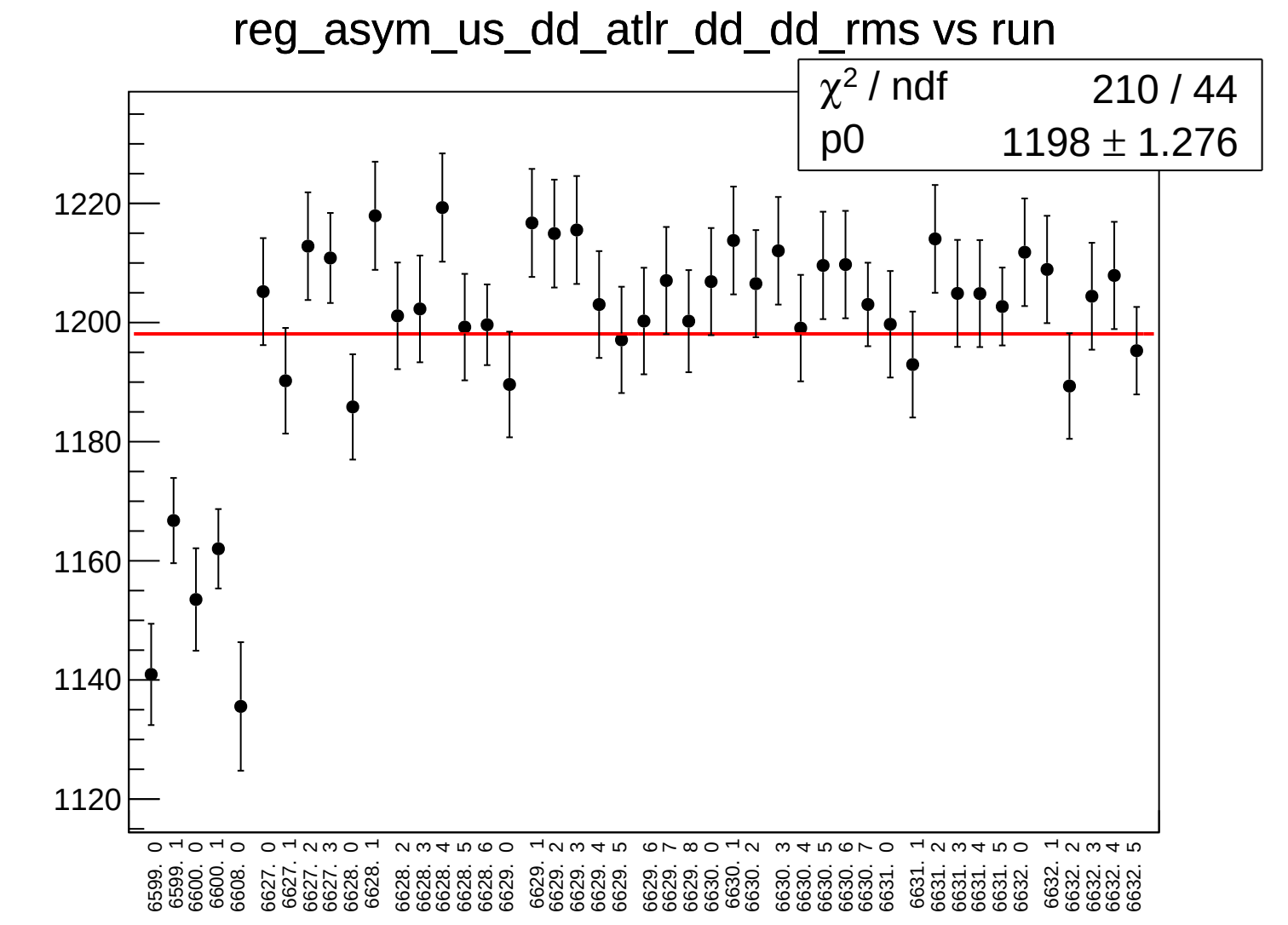

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.959e+04 / 44
p0 52.96 ± 0.05985
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

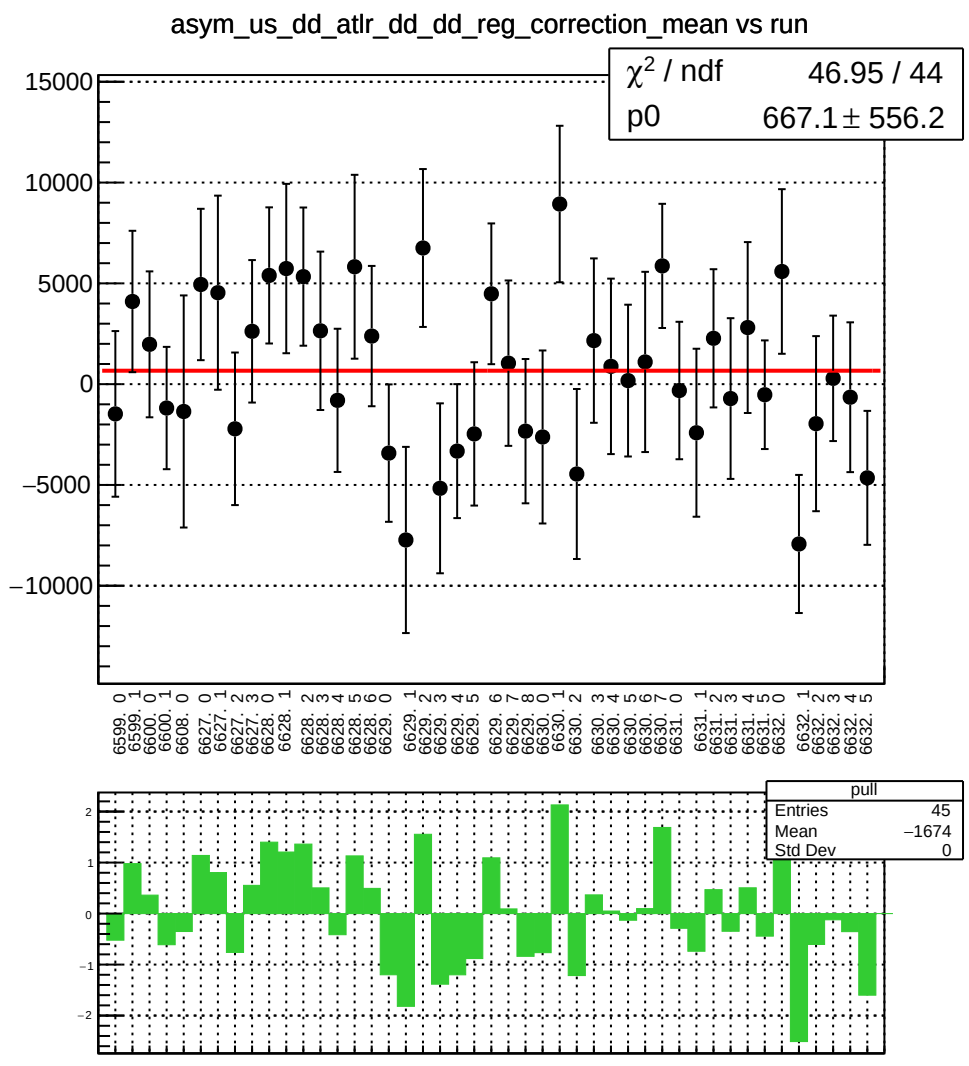

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 42.14 / 44
p0 1.88e−14 ± 1.338e−14
pull
Entries 45
Mean −17.6
Std Dev 0

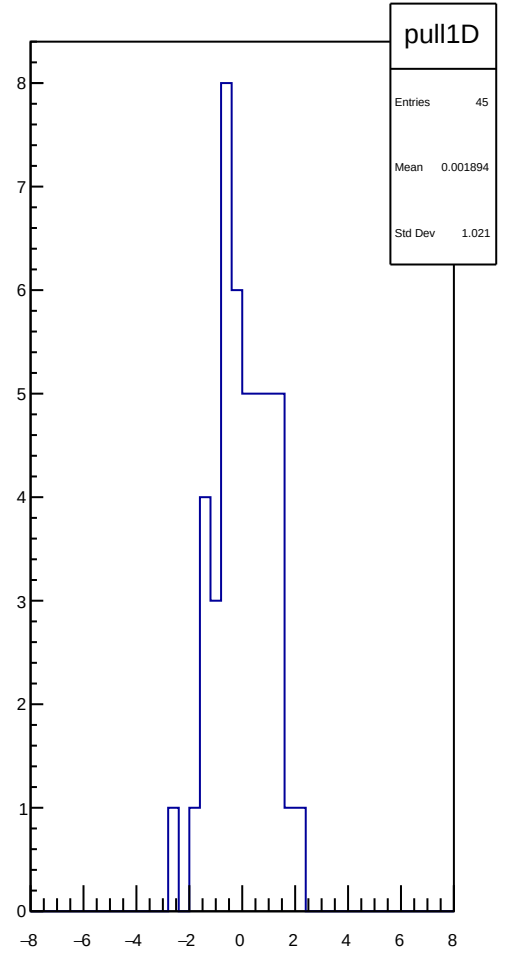

pull1D
Entries 45
Mean 0.0704
Std Dev 0.9651

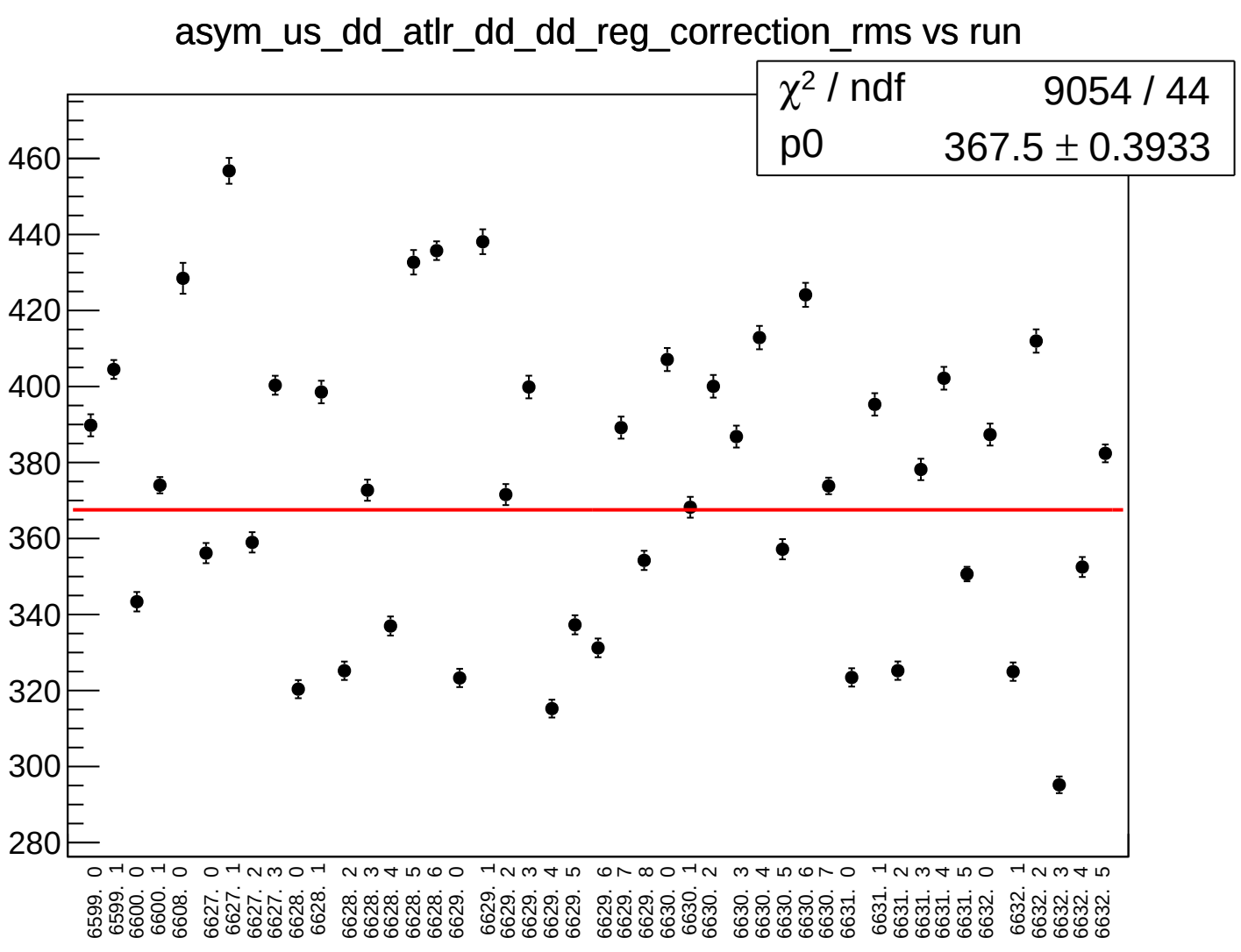

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
40
35
30
25
20
15
10
5
χ² / ndf 2.605e+05 / 44
p0 7.463e−12 ± 9.463e−15
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

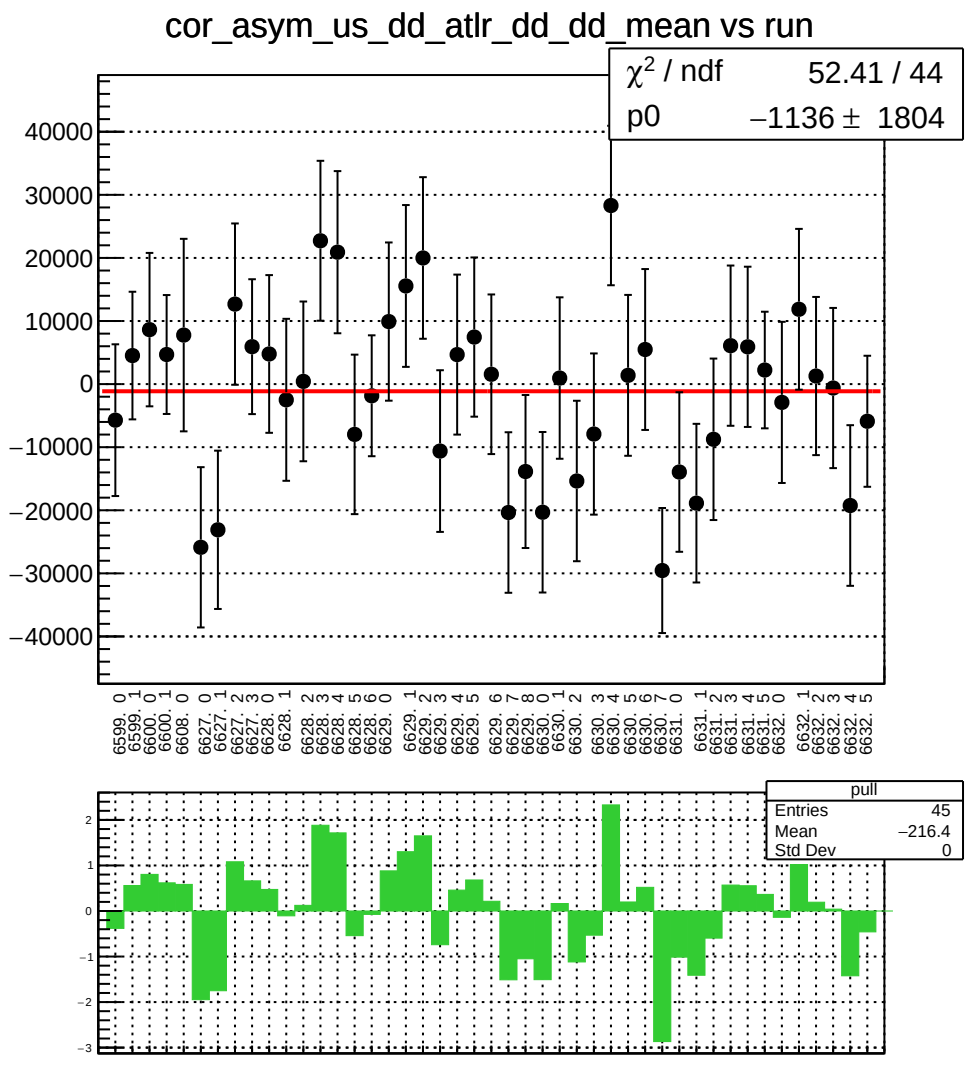

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 52.41 / 44
p0 −1136 ± 1804
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −216.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.01069
Std Dev 1.079
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 210 / 44
p0 1198 ± 1.276
1220
1200
1180
1160
1140
1120
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 46.95 / 44
p0 667.1 ± 556.2
15000
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −1674
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.001894
Std Dev 1.021
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 9054 / 44
p0 367.5 ± 0.3933
460
440
420
400
380
360
340
320
300
280
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 52.41 / 44
p0 −1136 ± 1804
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6629. 0
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6629. 7
6629. 8
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6630. 1
6630. 2
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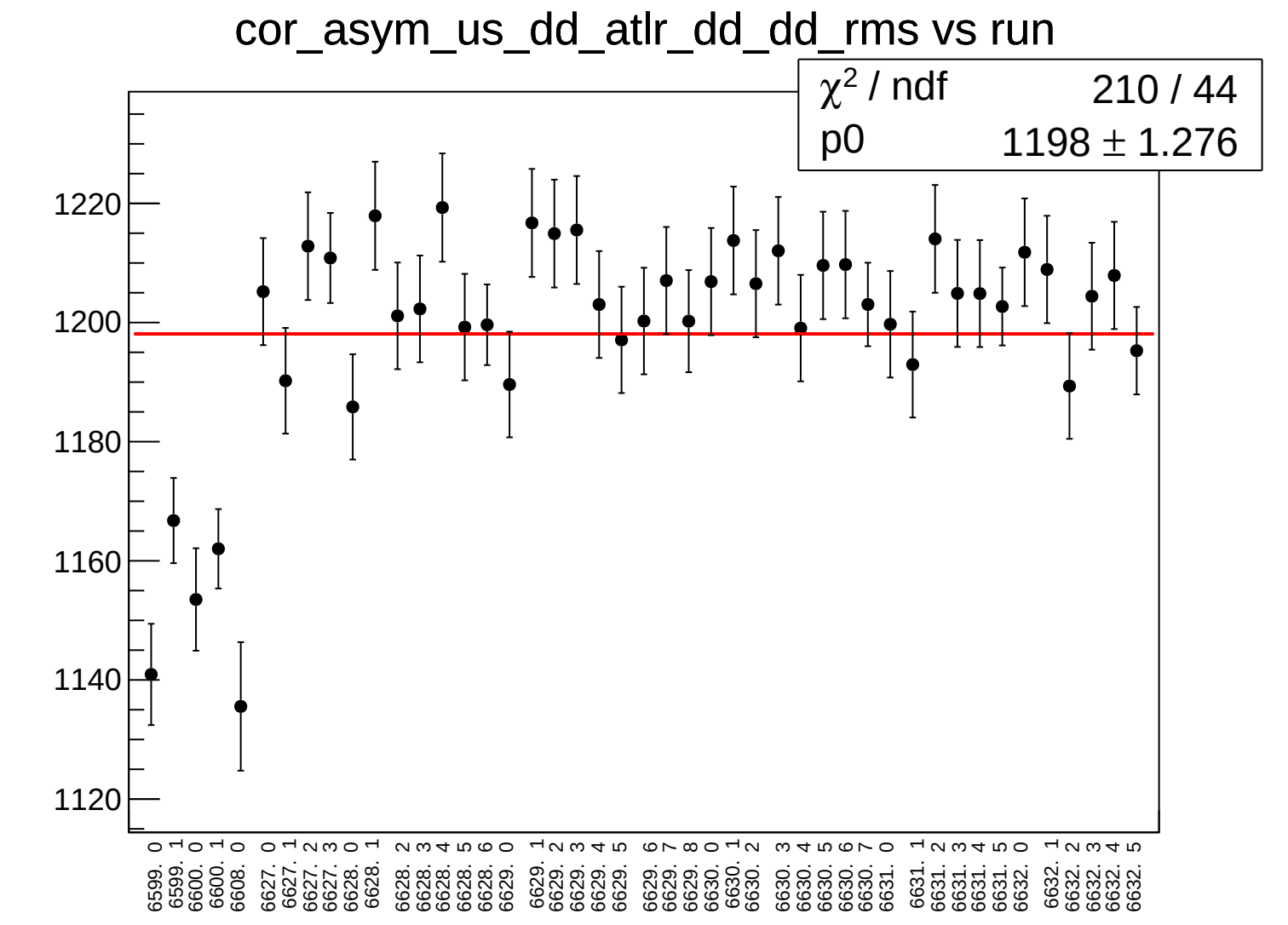
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −216.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.01069
Std Dev 1.079
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 210 / 44
p0 1198 ± 1.276
1220
1200
1180
1160
1140
1120
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
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6628. 3
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6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
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6630. 5
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6631. 0
6631. 1
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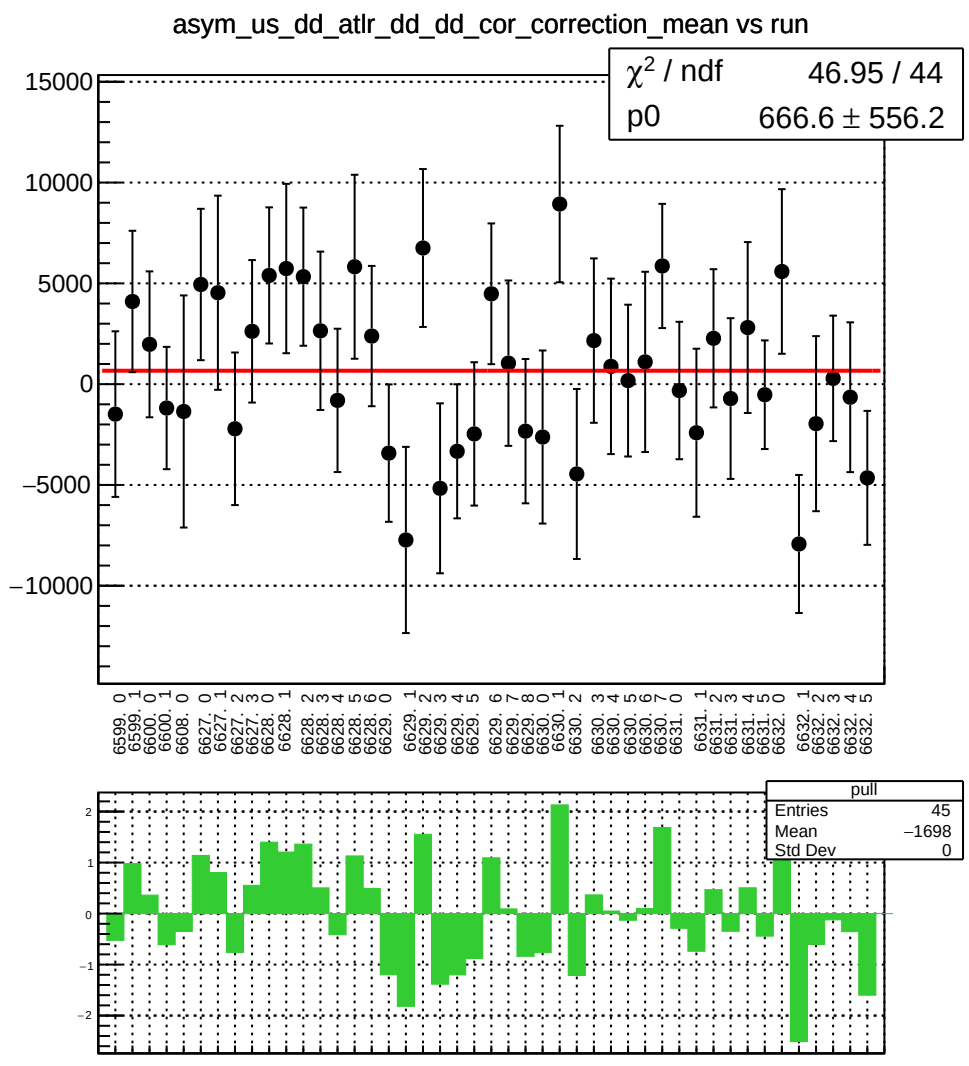
6632. 5


asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 46.95 / 44
p0 666.6 ± 556.2
15000
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 6
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6630. 0
6630. 1
6630. 2
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6630. 4
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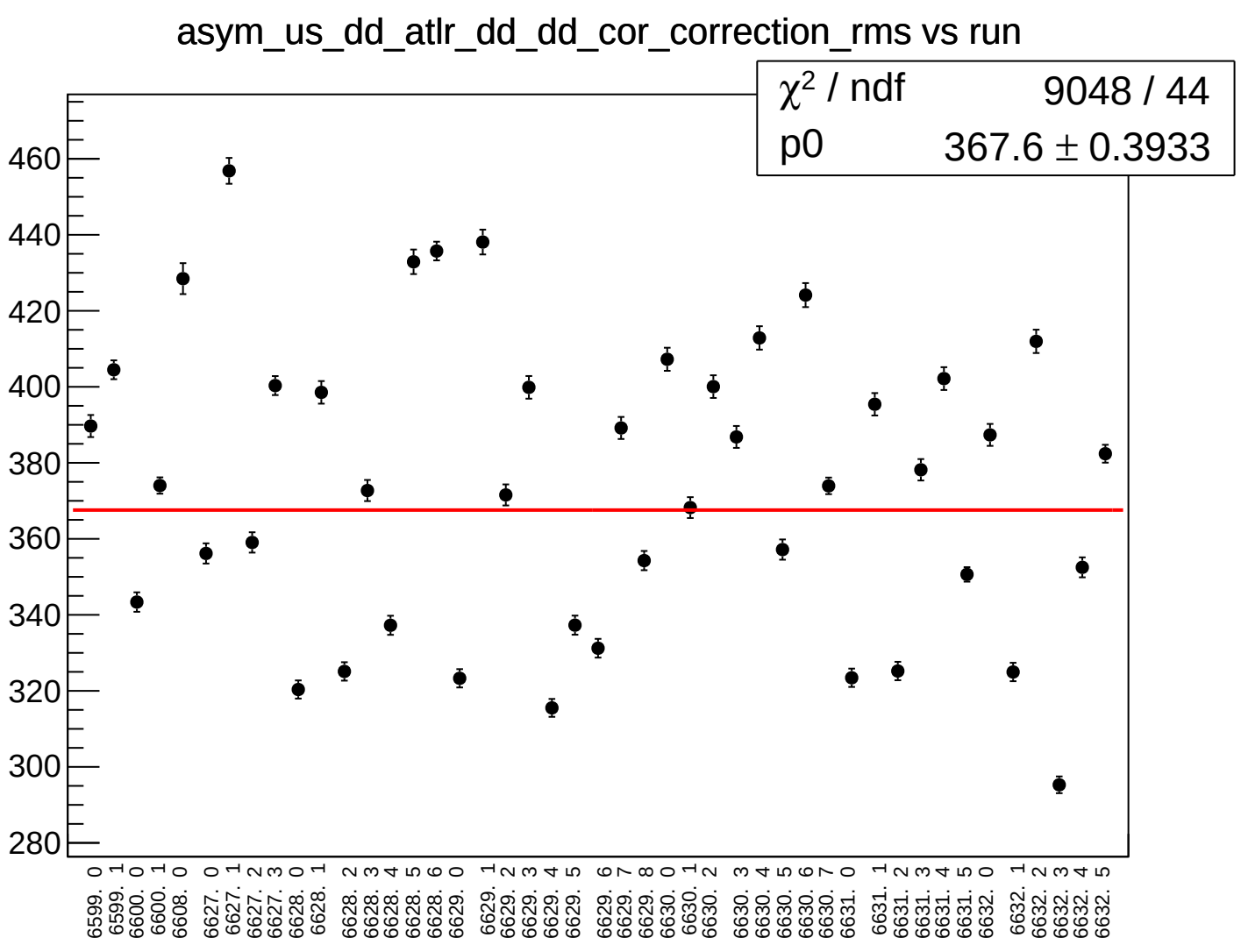
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −1698
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.001867
Std Dev 1.021
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 9048 / 44
p0 367.6 ± 0.3933
460
440
420
400
380
360
340
320
300
280
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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6628. 3
6628. 4
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6628. 6
6629. 0
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6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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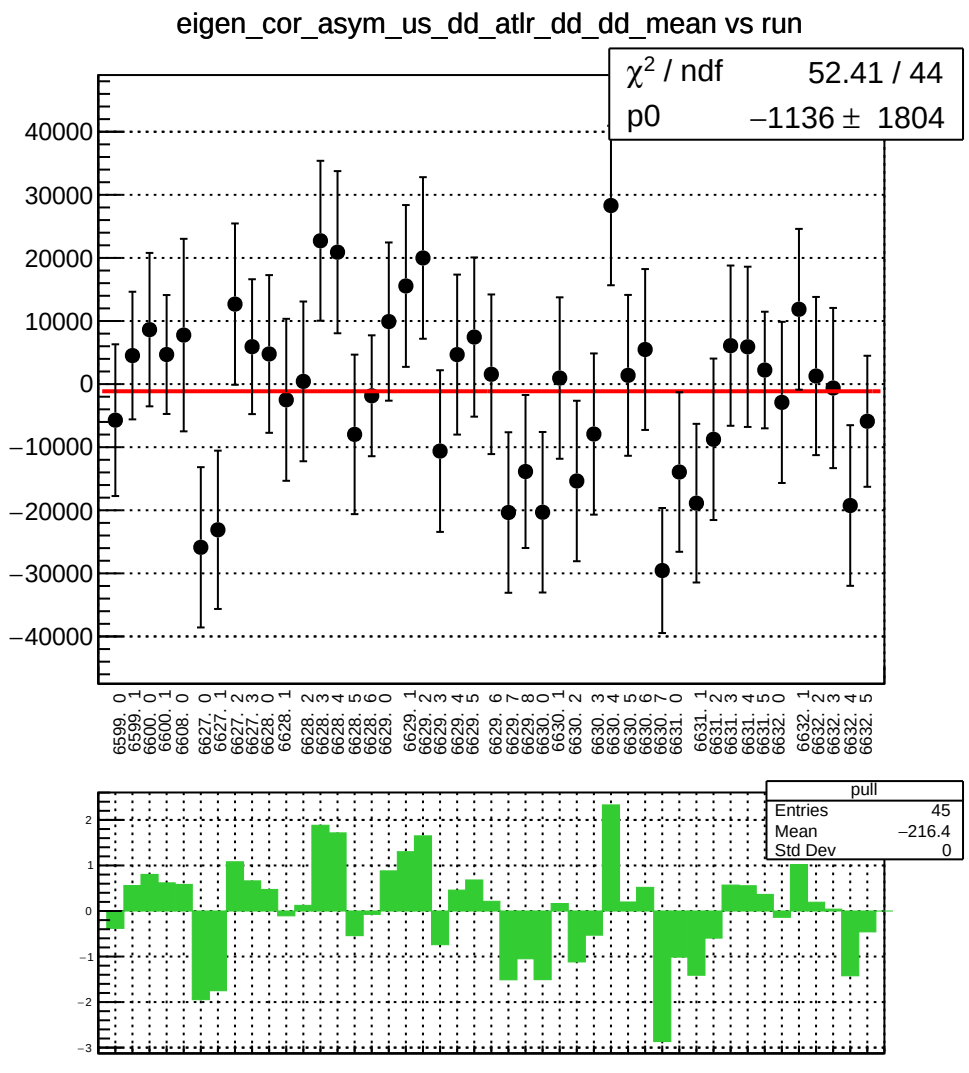
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 52.41 / 44
p0 −1136 ± 1804
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
6628. 3
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6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
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6629. 6
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6629. 8
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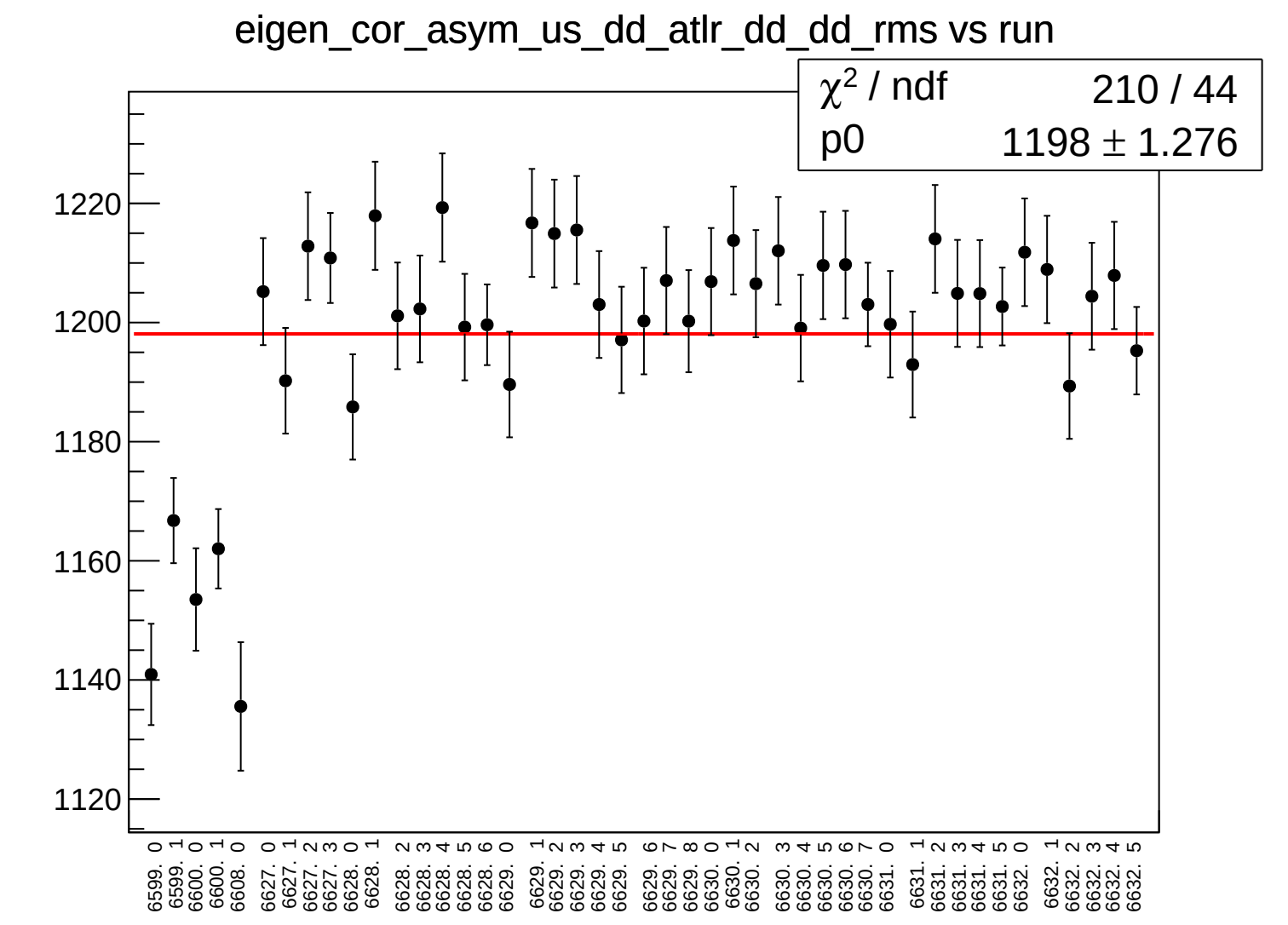
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −216.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.01069
Std Dev 1.079
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 210 / 44
p0 1198 ± 1.276
1220
1200
1180
1160
1140
1120
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6629. 2
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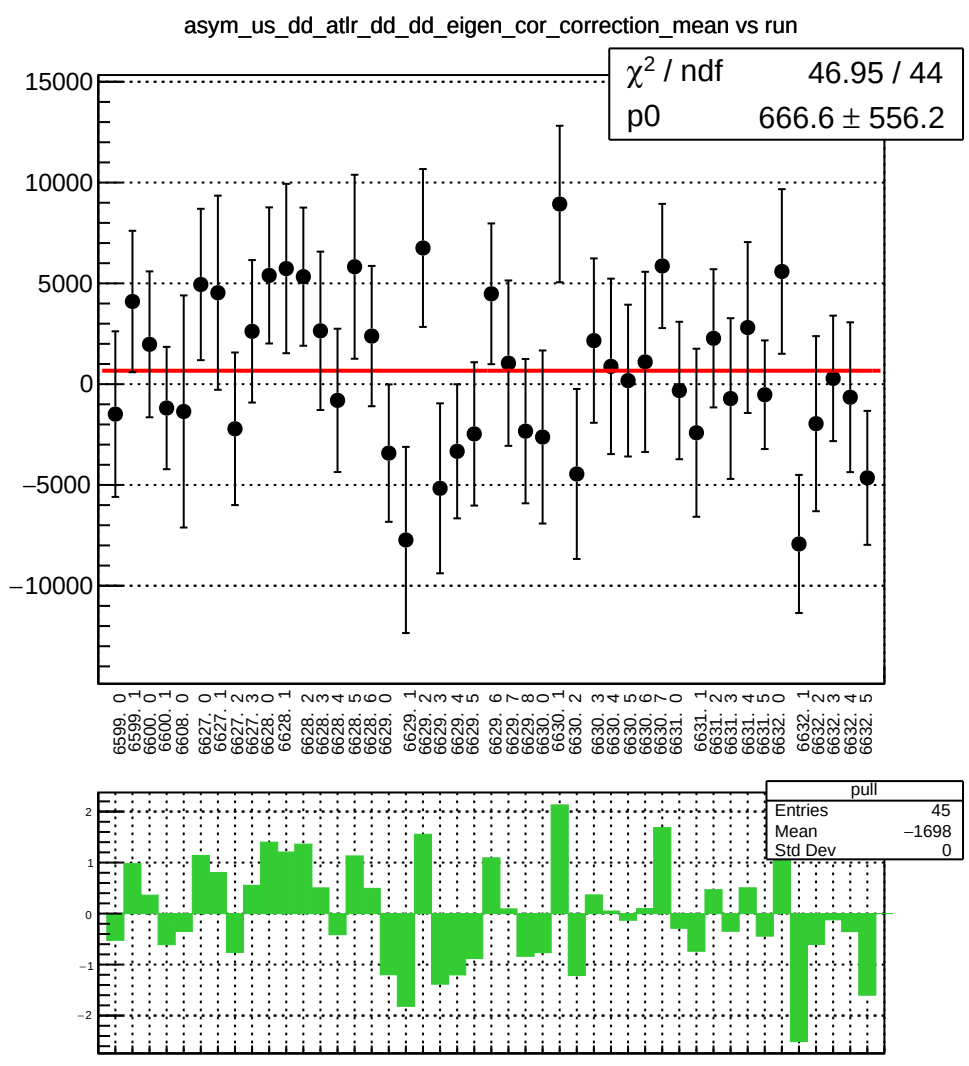
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 46.95 / 44
p0 666.6 ± 556.2
15000
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
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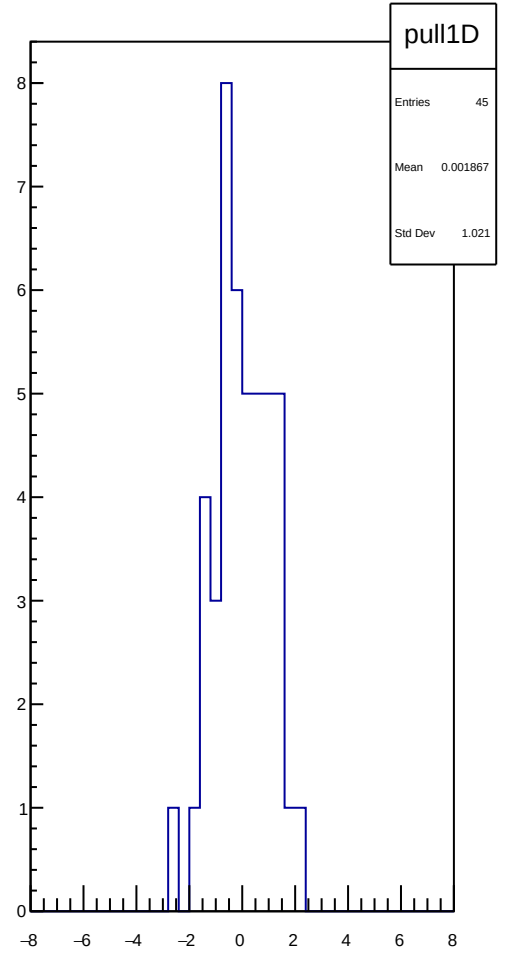
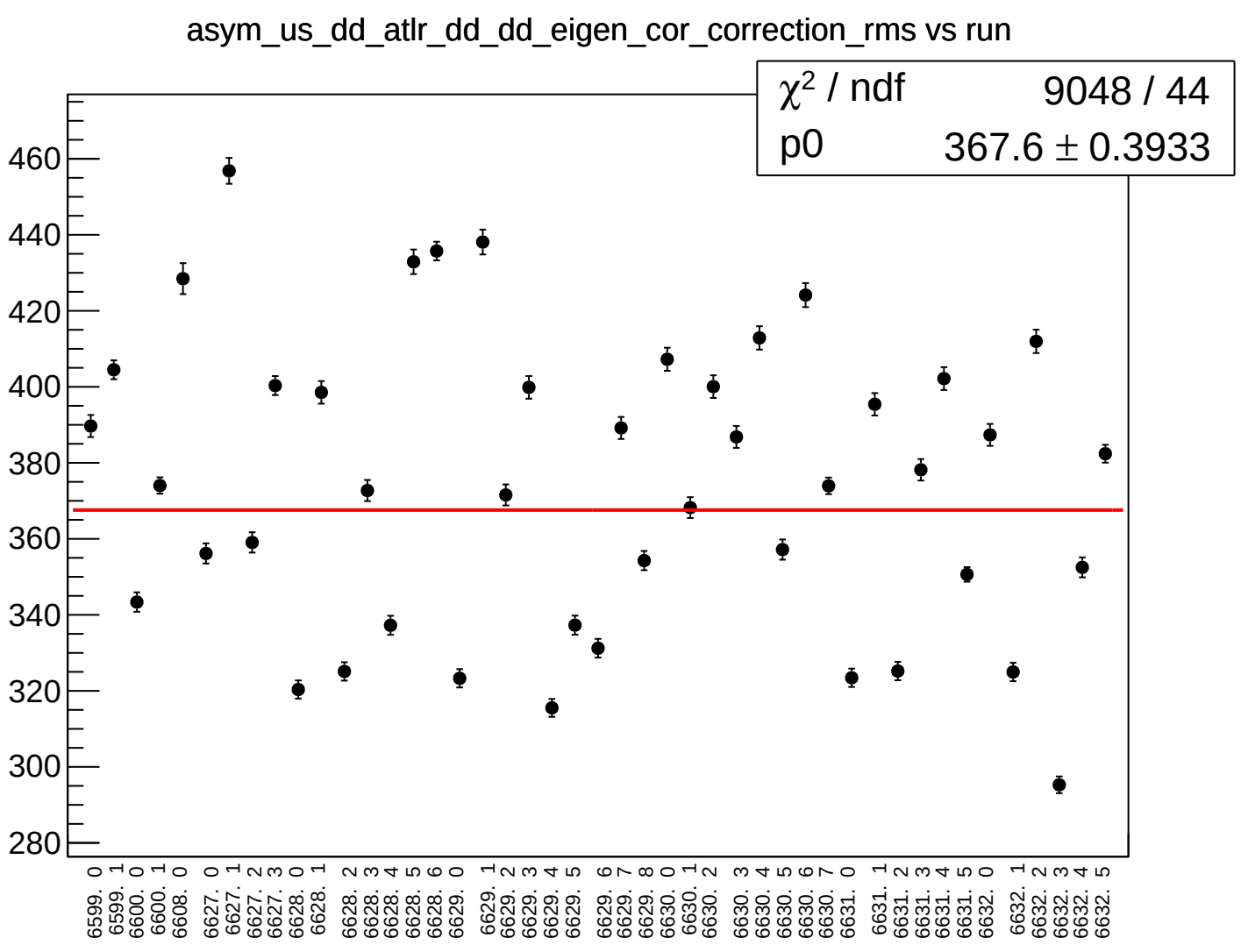
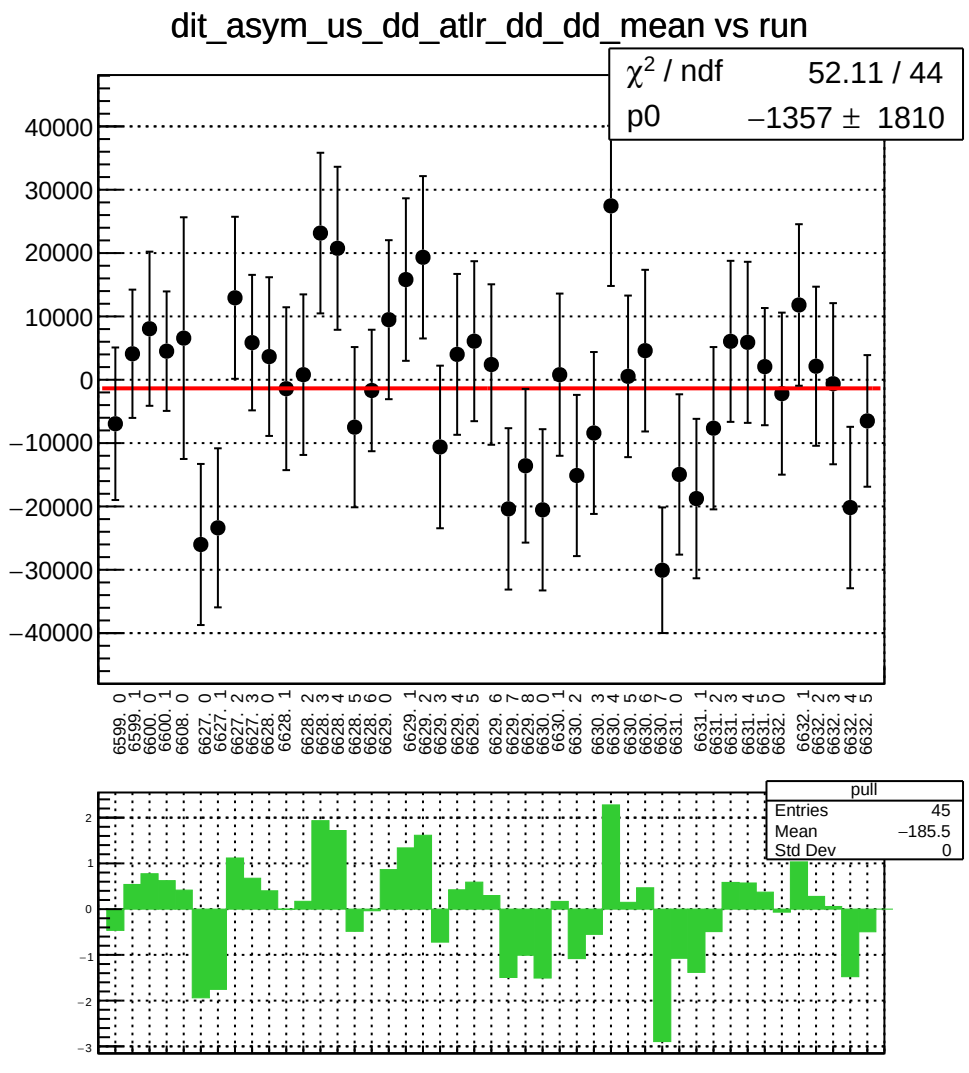
6632. 4
6632. 5
pull
Entries 45
Mean −1698
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.001867
Std Dev 1.021
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 9048 / 44
p0 367.6 ± 0.3933
460
440
420
400
380
360
340
320
300
280
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 52.11 / 44
p0 −1357 ± 1810
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 4
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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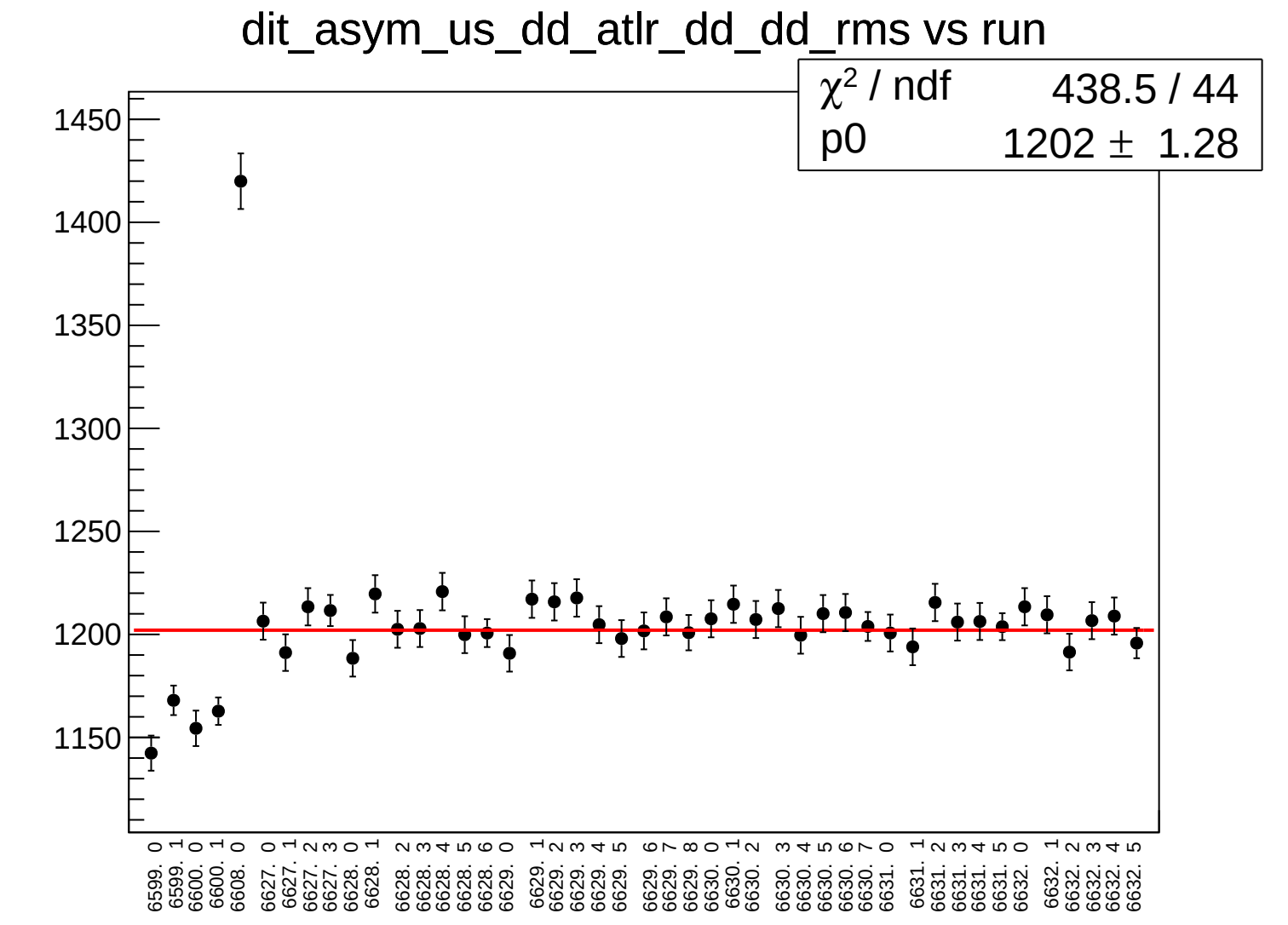
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −185.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.01177
Std Dev 1.076
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 438.5 / 44
p0 1202 ± 1.28
1450
1400
1350
1300
1250
1200
1150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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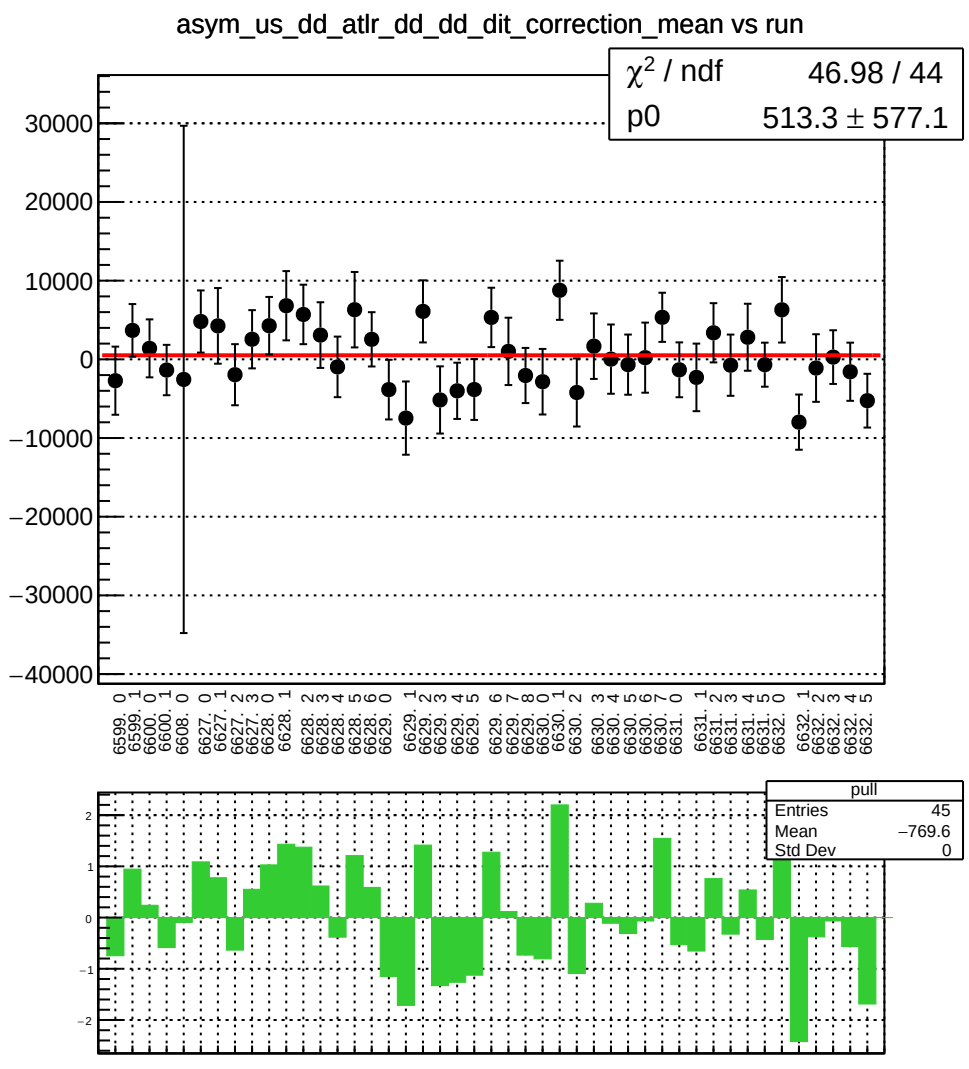
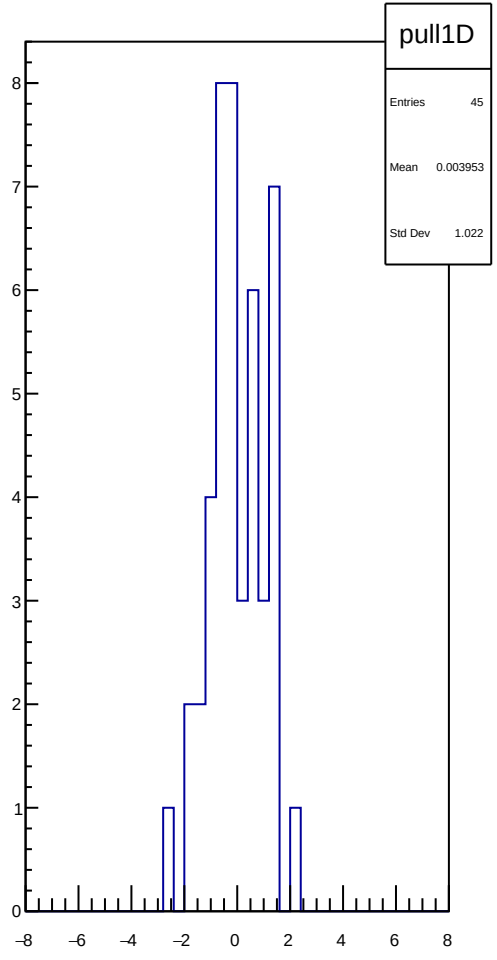
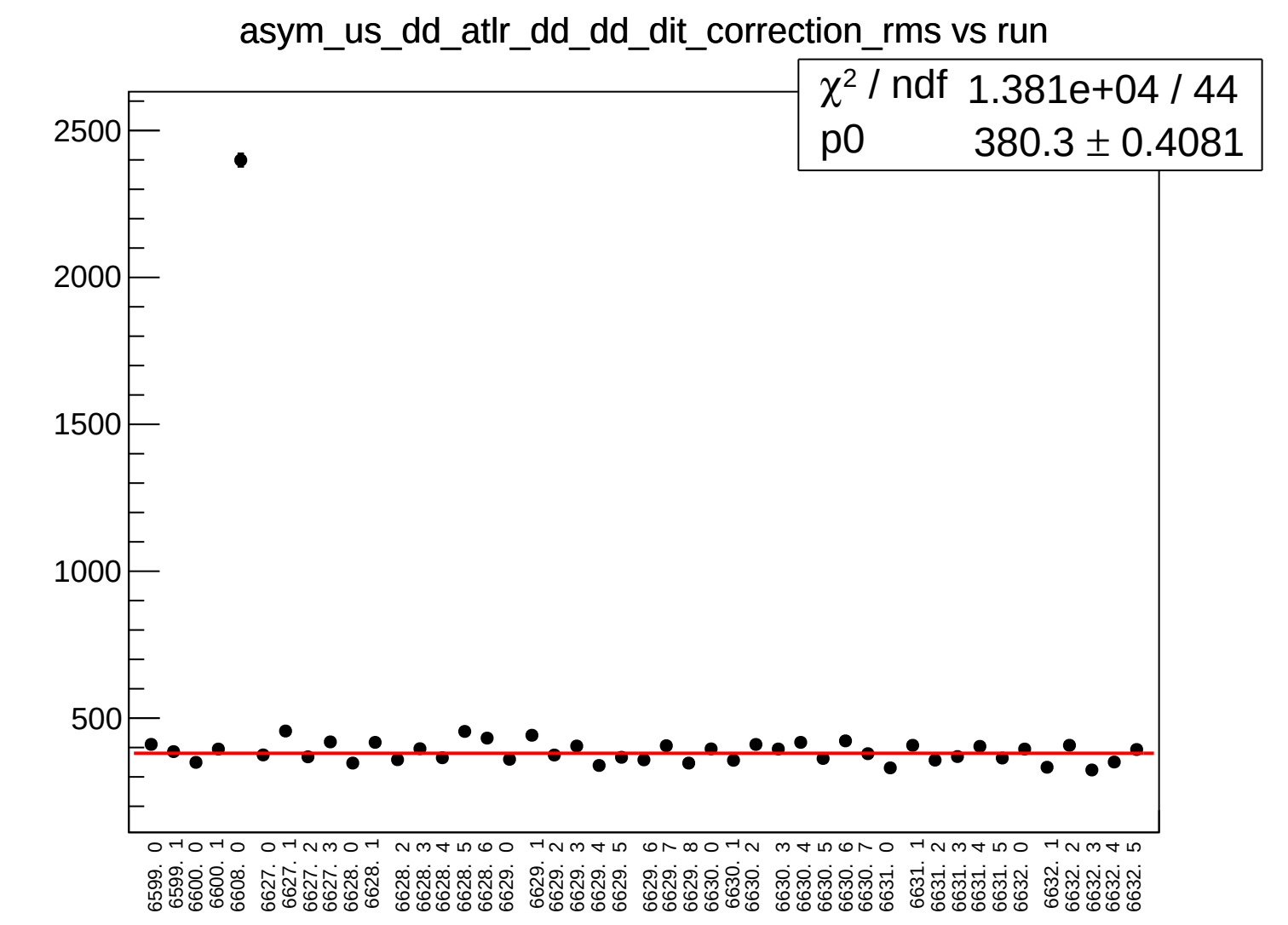
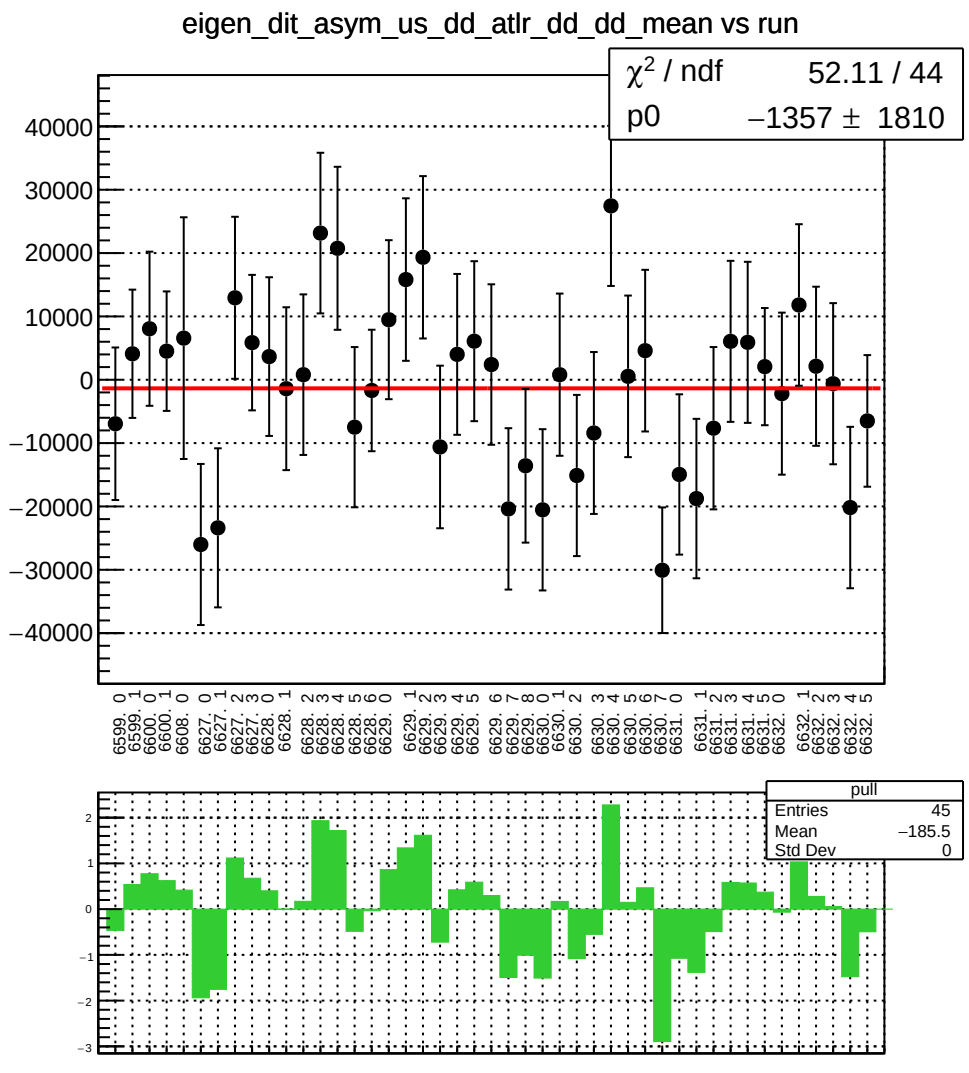
6632. 4
6632. 5


asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 46.98 / 44
p0 513.3 ± 577.1
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −769.6
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.003953
Std Dev 1.022
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.381e+04 / 44
p0 380.3 ± 0.4081
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 52.11 / 44
p0 −1357 ± 1810
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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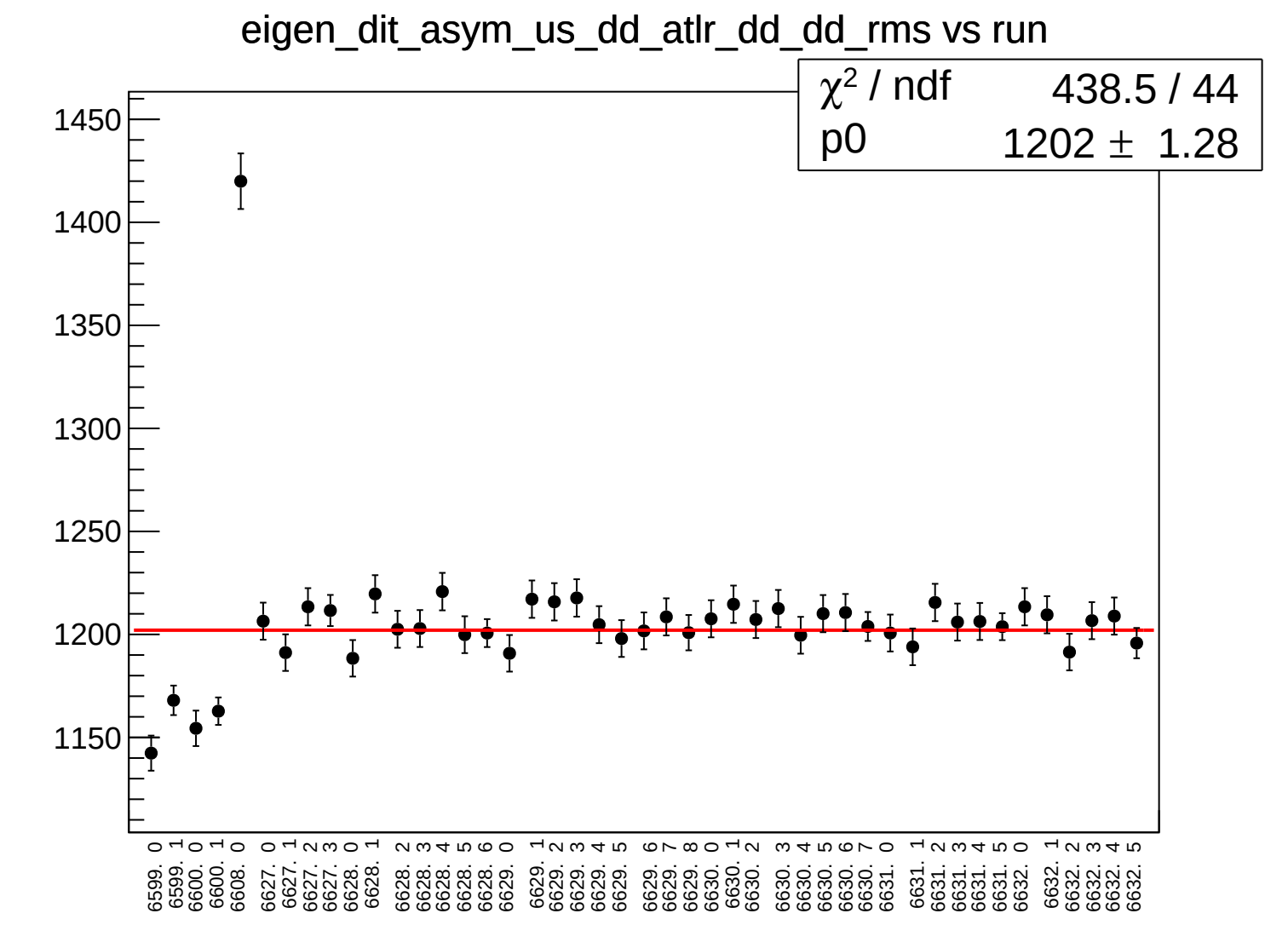
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −185.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.01177
Std Dev 1.076
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 438.5 / 44
p0 1202 ± 1.28
1450
1400
1350
1300
1250
1200
1150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
6629. 3
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6629. 5
6629. 6
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6630. 2
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6630. 4
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6630. 6
6630. 7
6631. 0
6631. 1
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6632. 0
6632. 1
6632. 2
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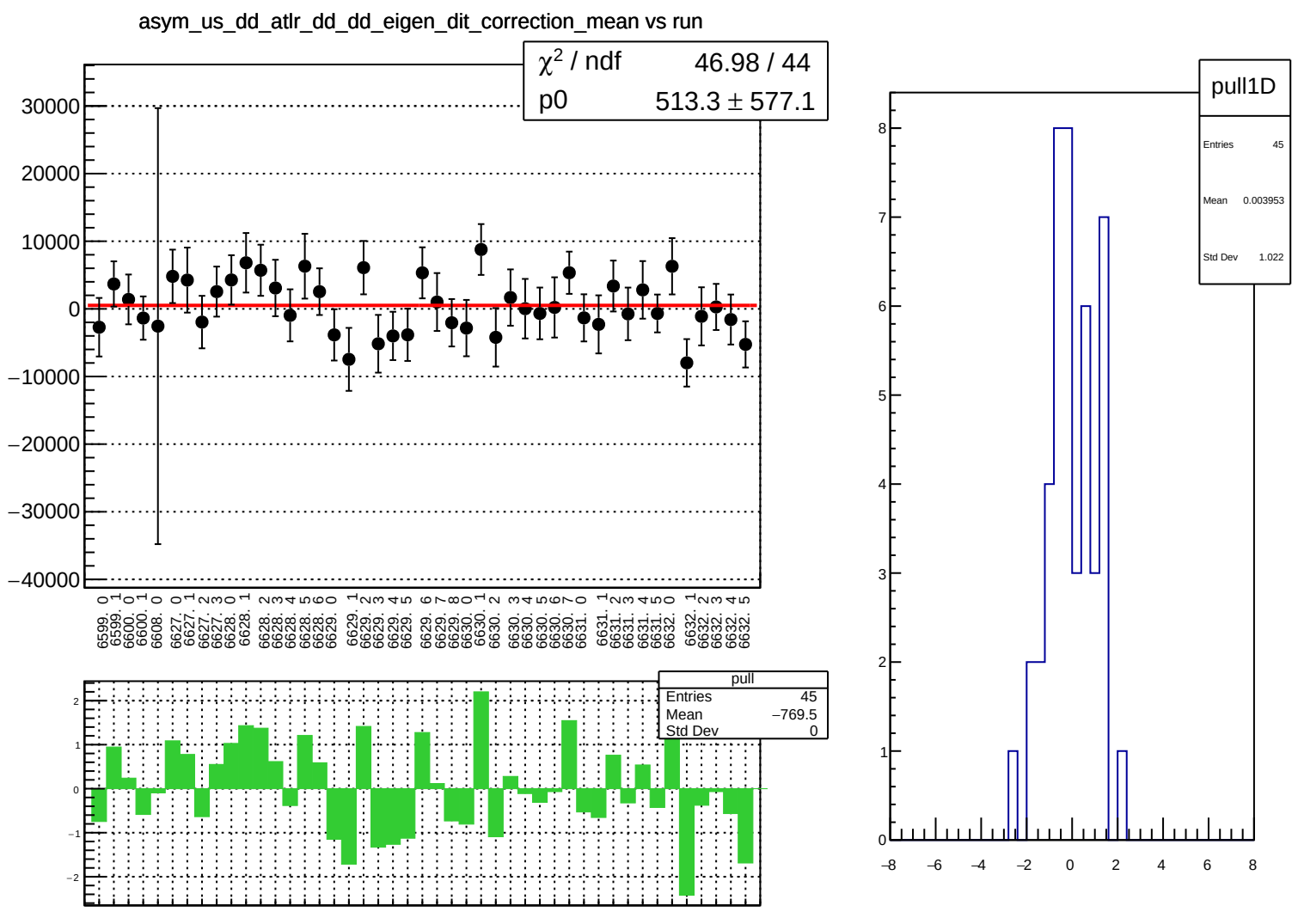
6632. 4
6632. 5


asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 46.98 / 44
p0 513.3 ± 577.1
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6629. 1
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6629. 7
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6630. 1
6630. 2
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6630. 4
6630. 5
6630. 6
6630. 7
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6631. 1
6631. 2
6631. 3
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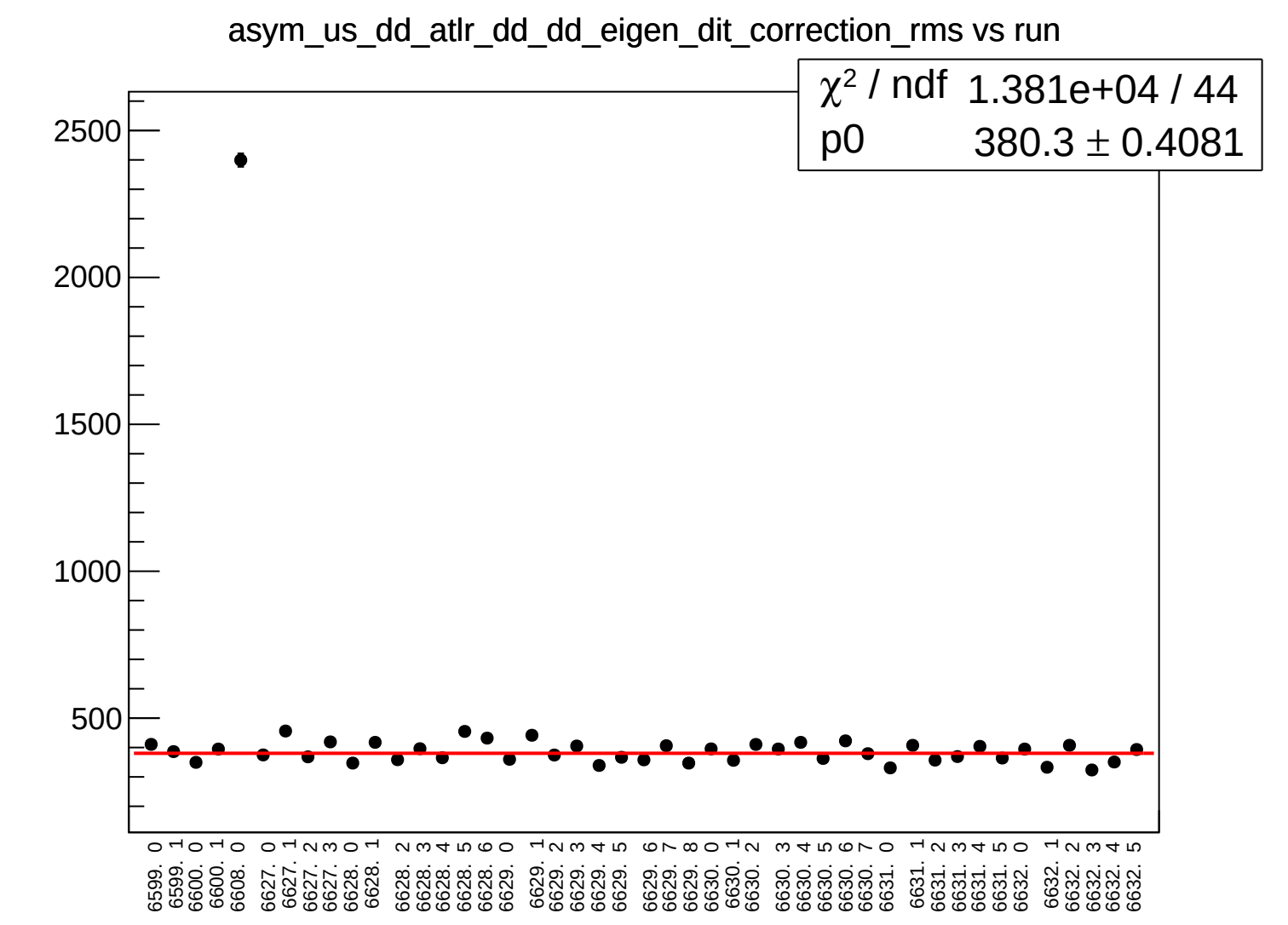
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −769.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.003953
Std Dev 1.022
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.381e+04 / 44
p0 380.3 ± 0.4081
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 3
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6630. 0
6630. 1
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6630. 6
6630. 7
6631. 0
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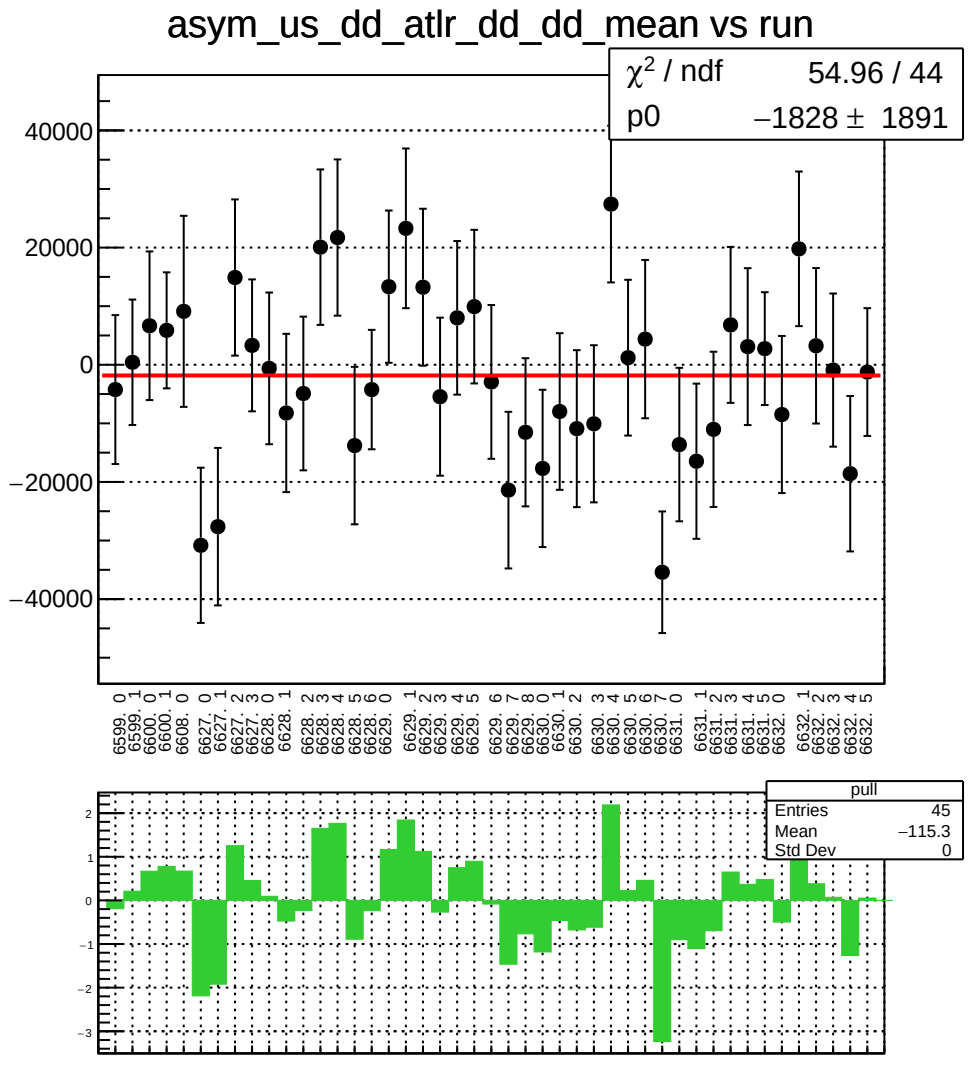
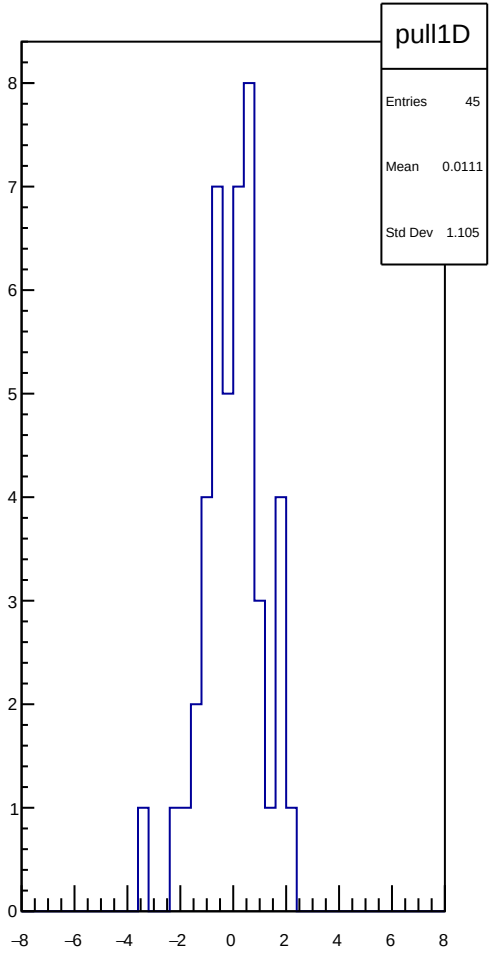
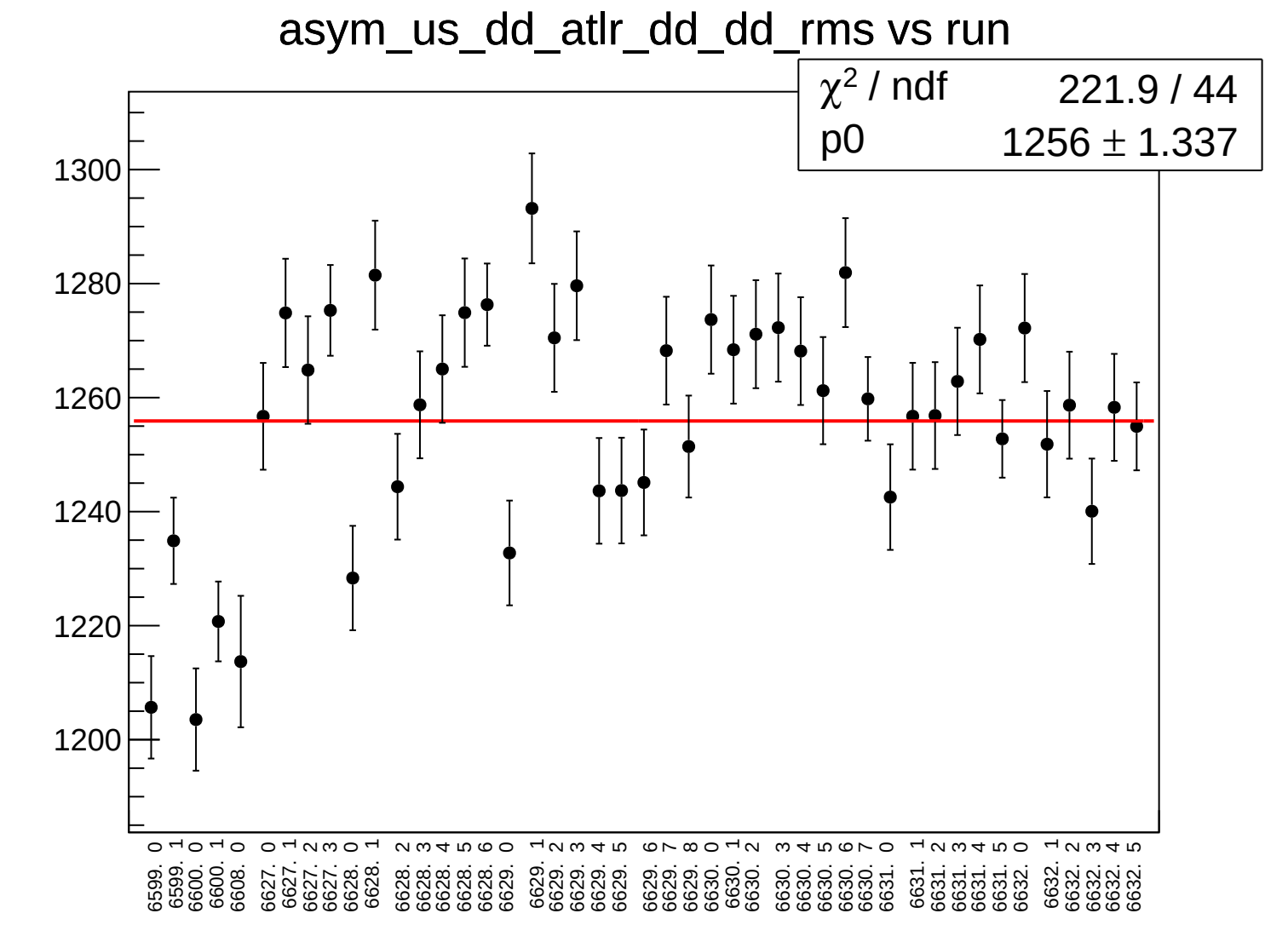
6632. 4
6632. 5


asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 54.96 / 44
p0 −1828 ± 1891
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −115.3
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.0111
Std Dev 1.105
8
7
6
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 221.9 / 44
p0 1256 ± 1.337
1300
1280
1260
1240
1220
1200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6628. 6
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
6631. 5
6632. 0
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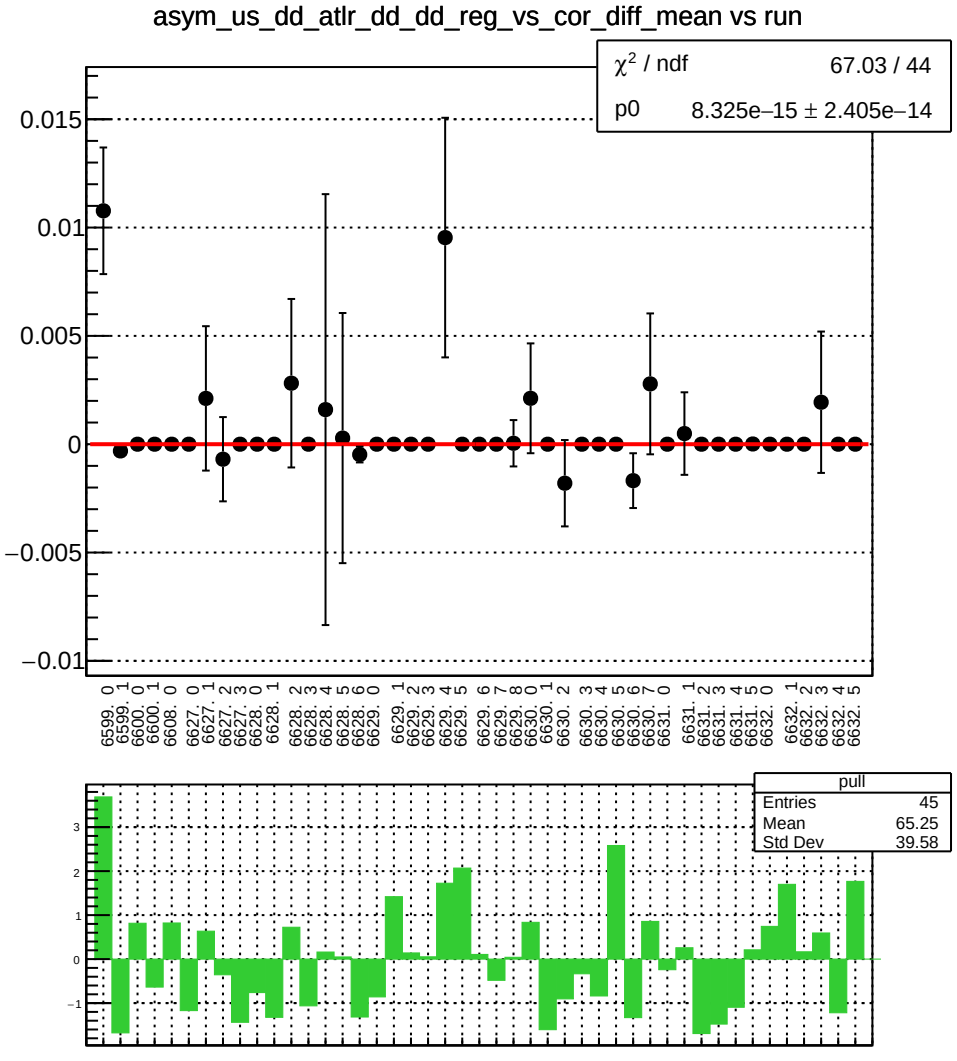
6632. 2
6632. 3
6632. 4
6632. 5


asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 67.03 / 44
p0 8.325e−15 ± 2.405e−14
0.015
0.01
0.005
0
−0.005
−0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 6
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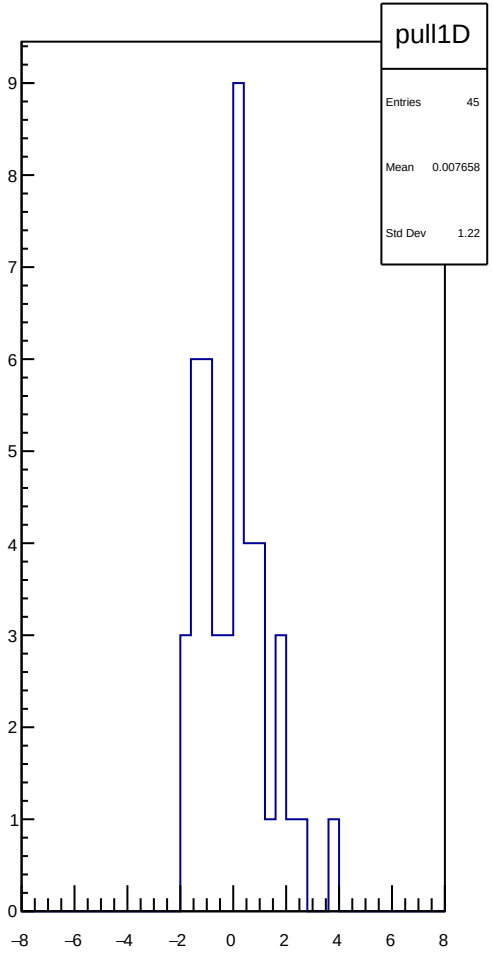
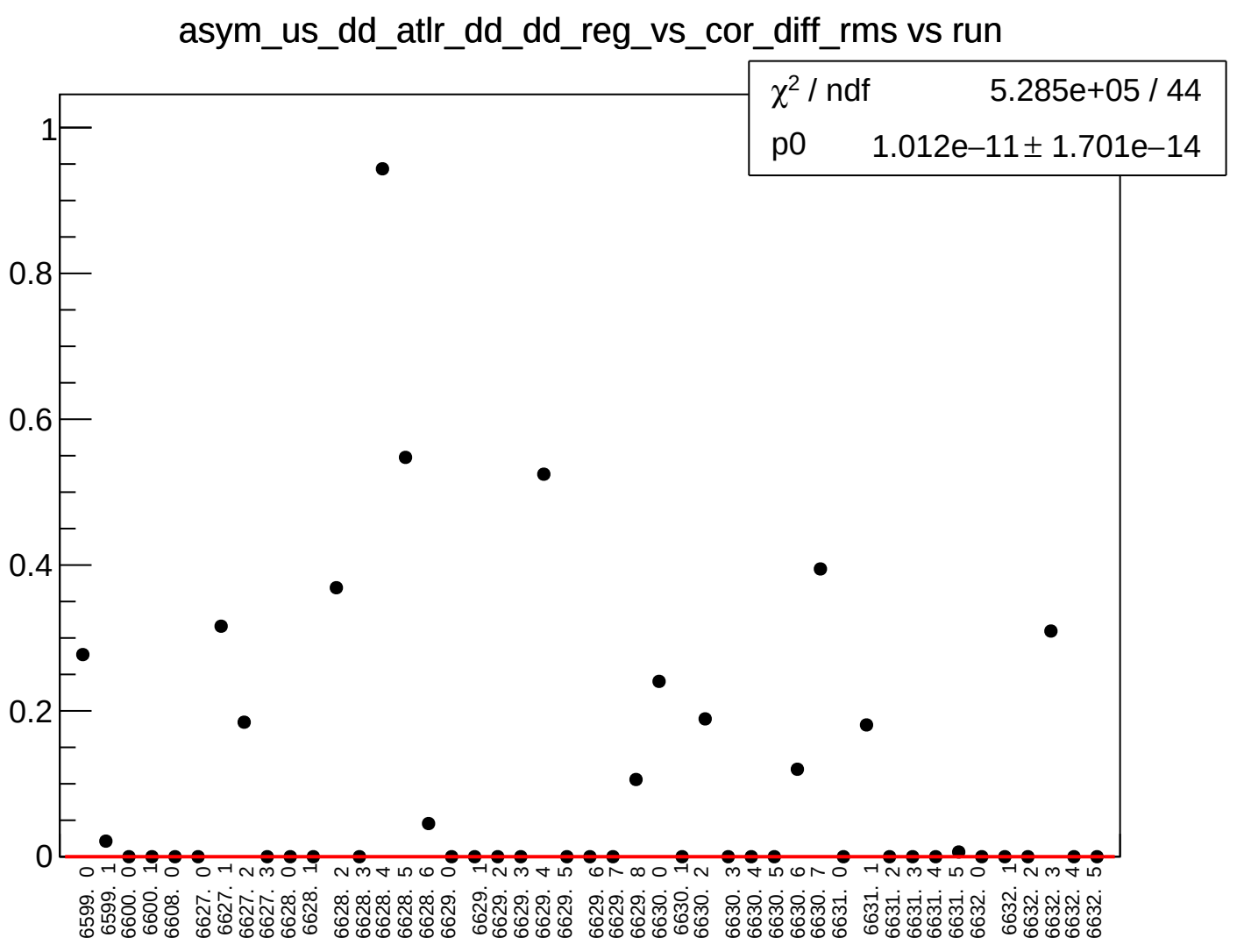
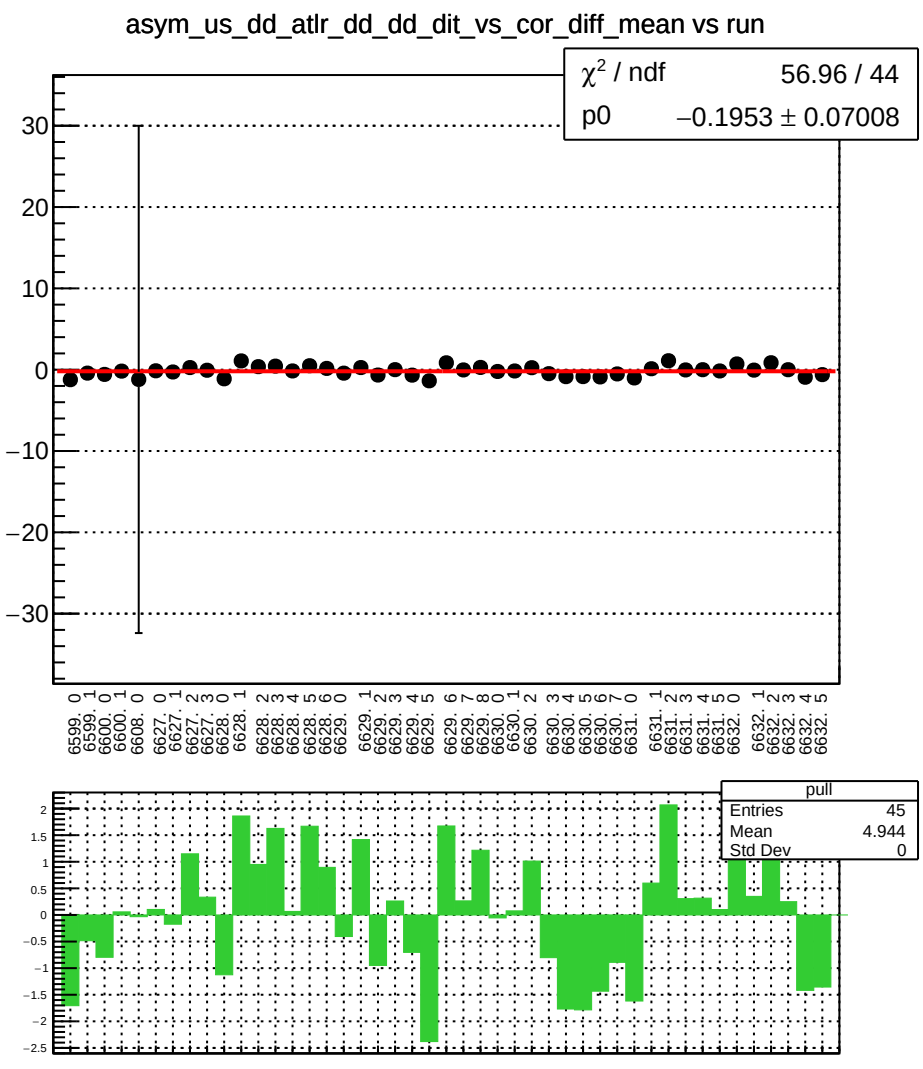
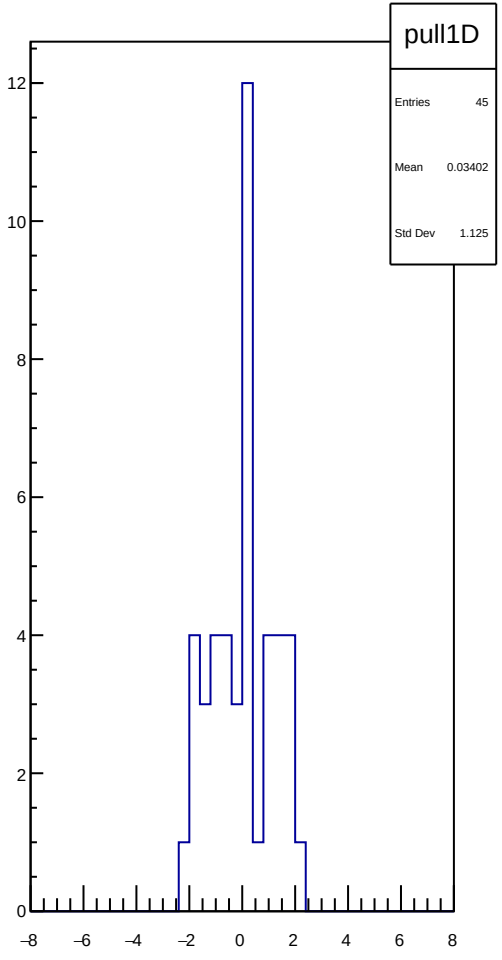
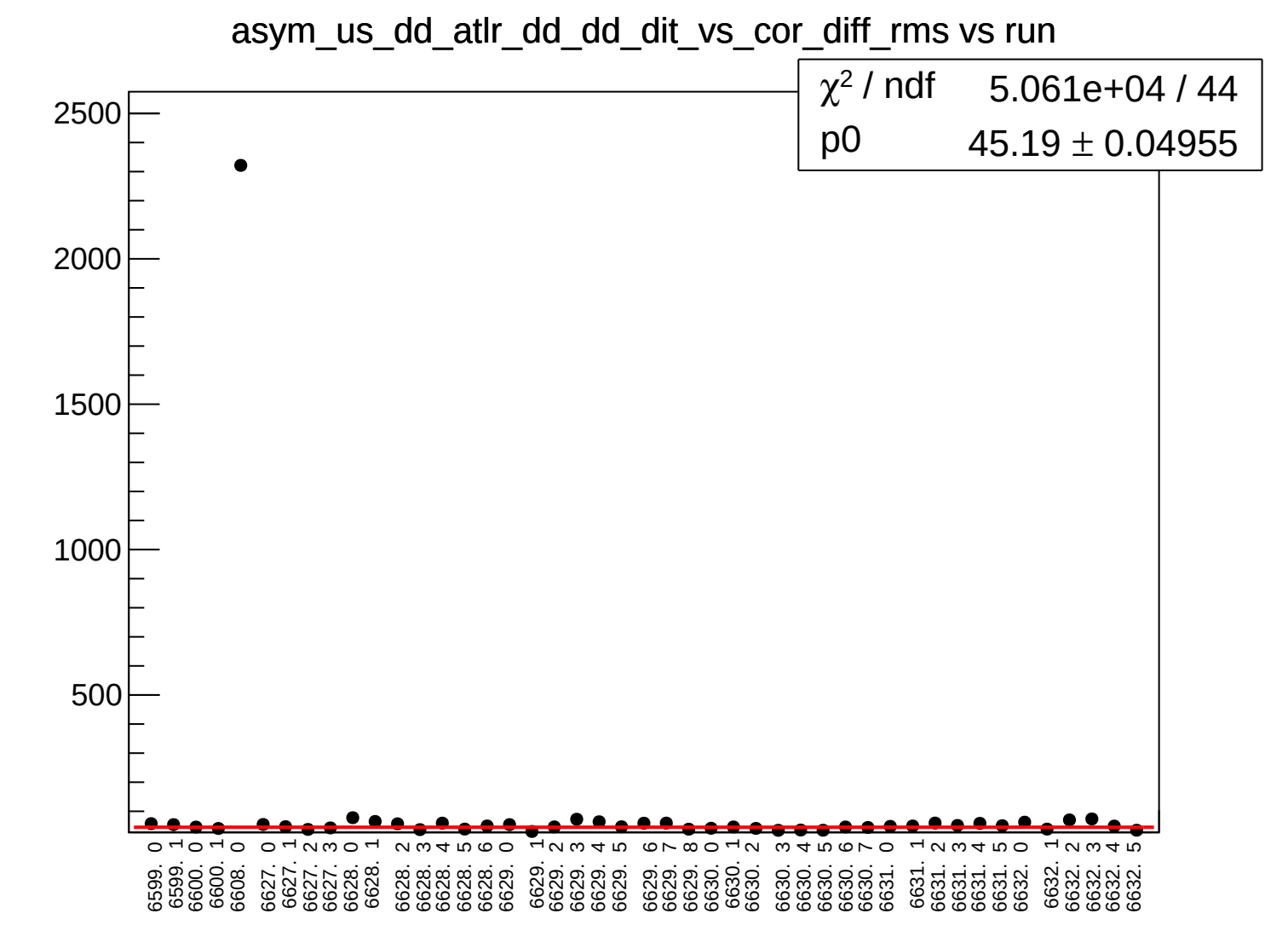
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 65.25
Std Dev 39.58
3
2
1
0
−1

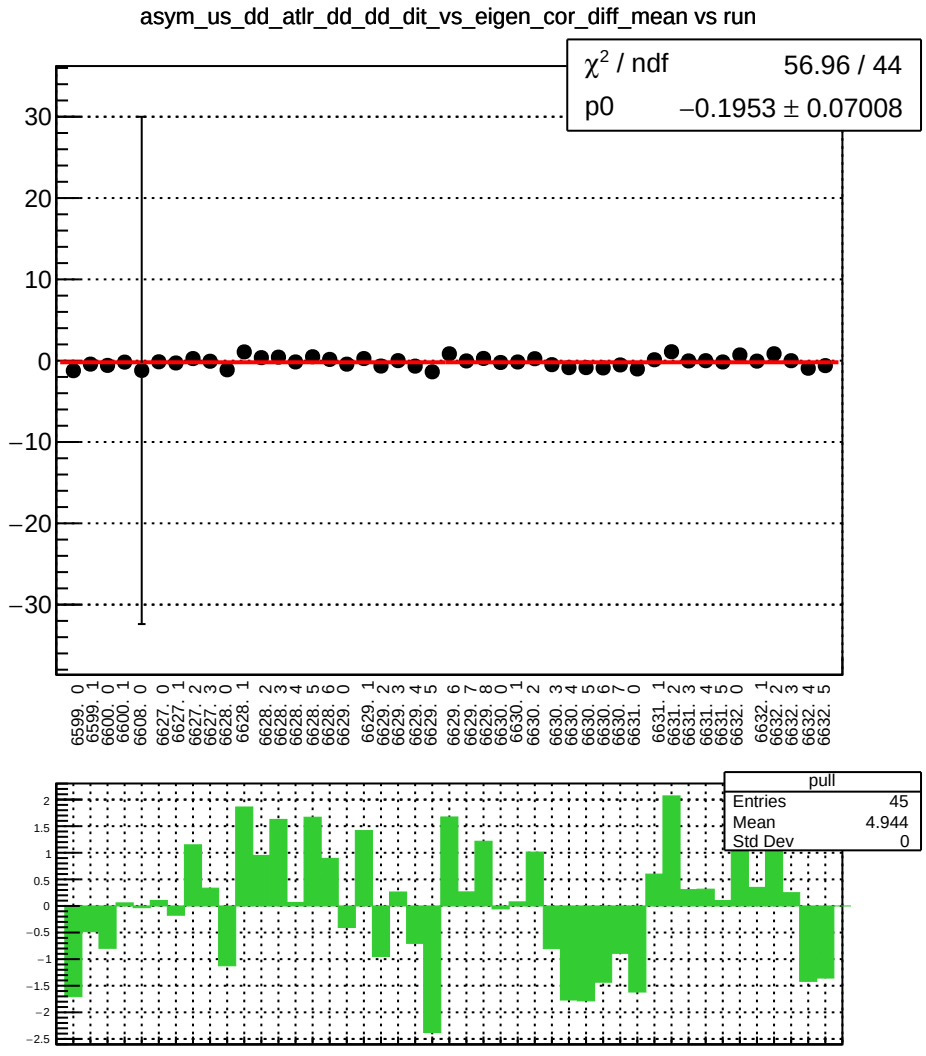

pull1D
Entries 45
Mean 0.007658
Std Dev 1.22
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

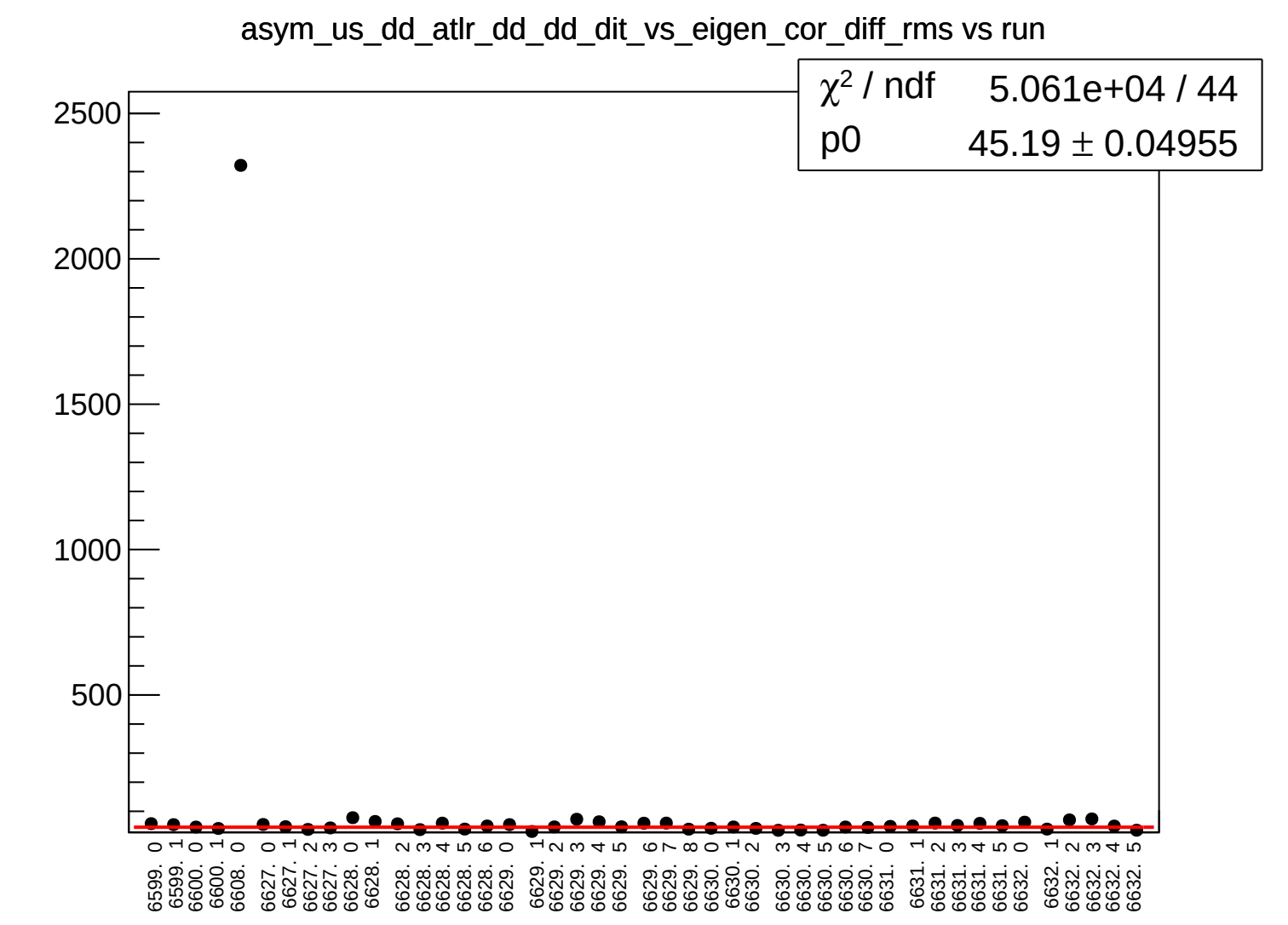

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.285e+05 / 44
p0 1.012e−11 ± 1.701e−14
1
0.8
0.6
0.4
0.2
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

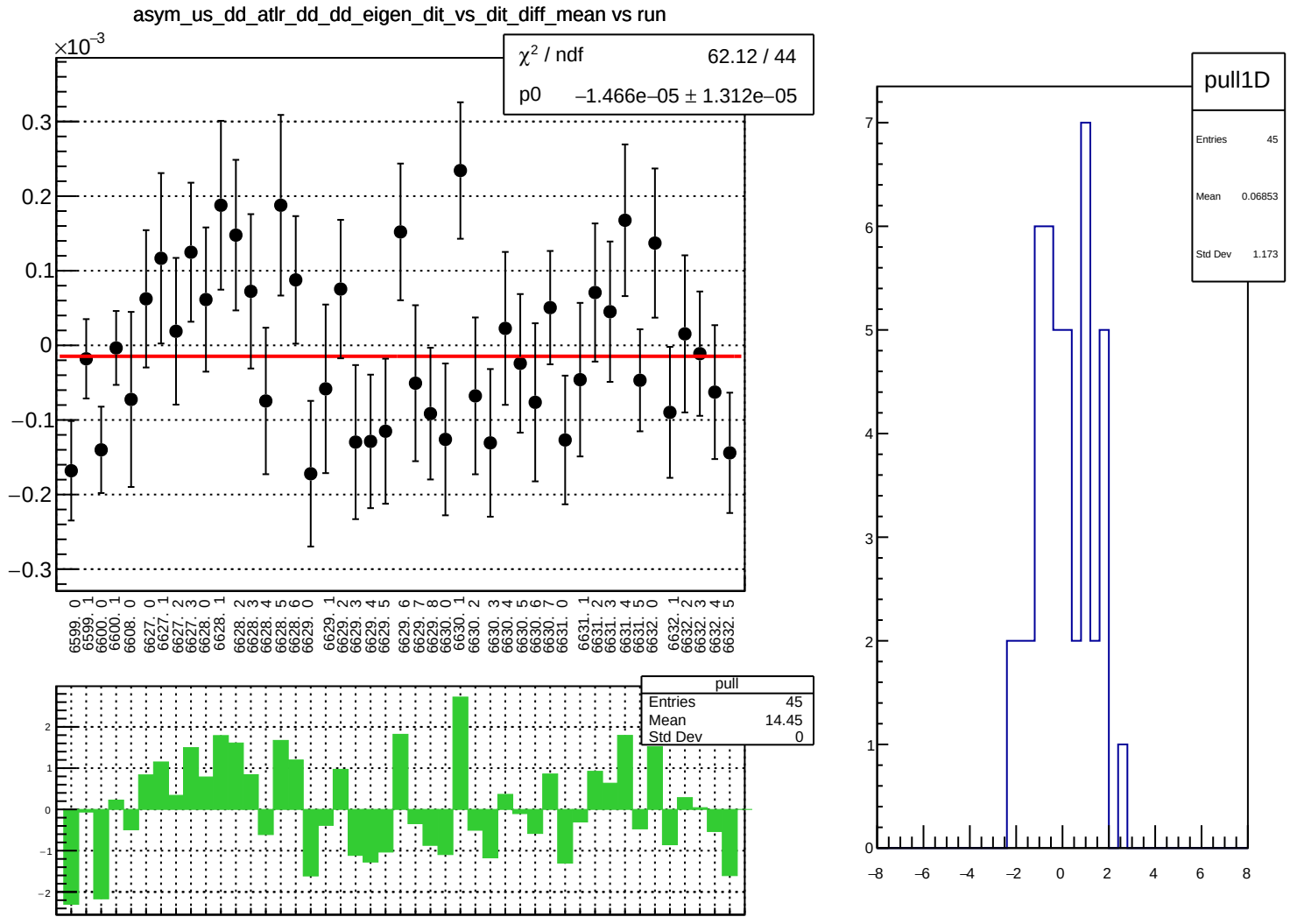

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 56.96 / 44
p0 −0.1953 ± 0.07008
30
20
10
0
−10
−20
−30
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 4.944
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

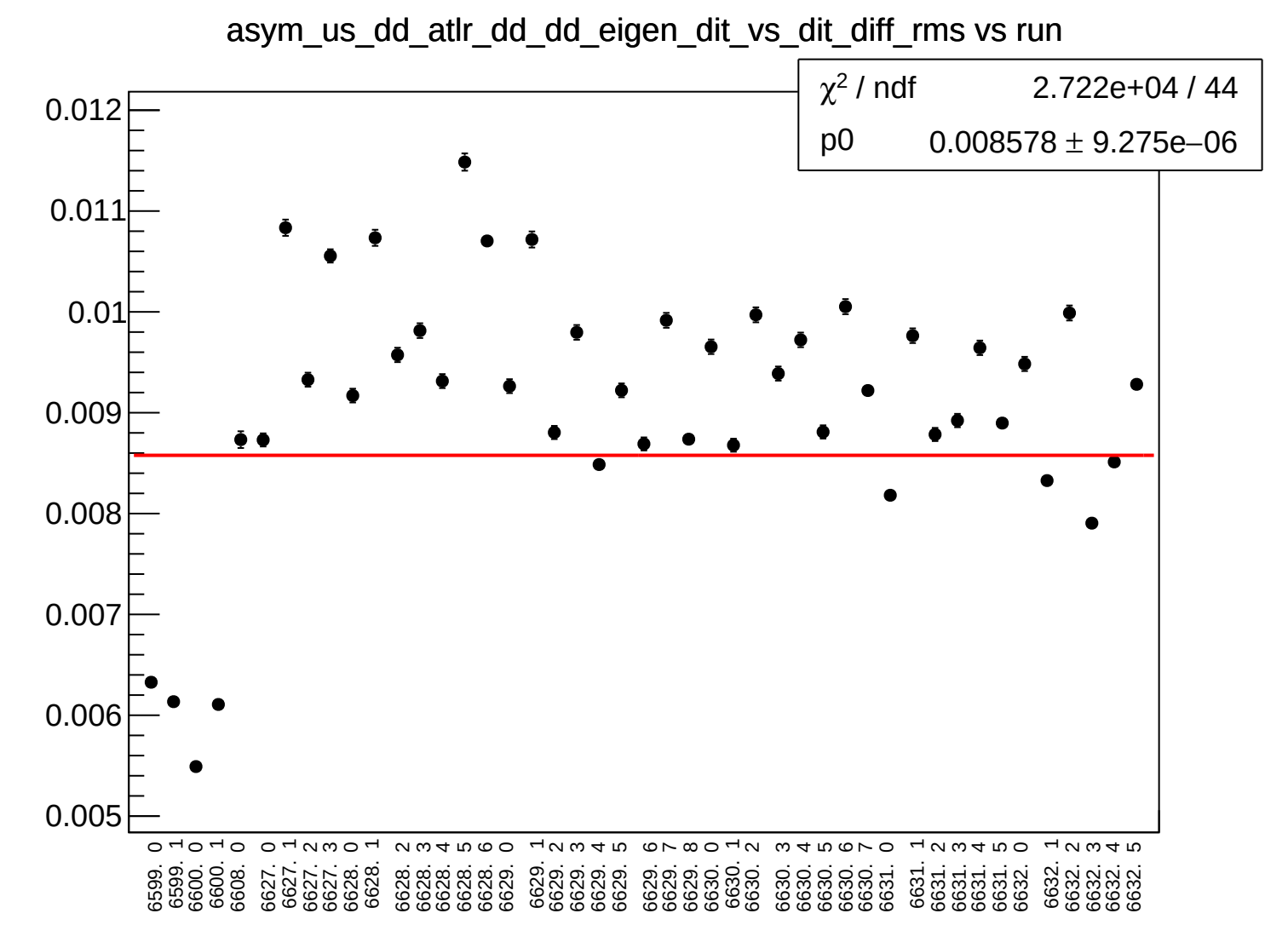

pull1D
Entries 45
Mean 0.03402
Std Dev 1.125
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

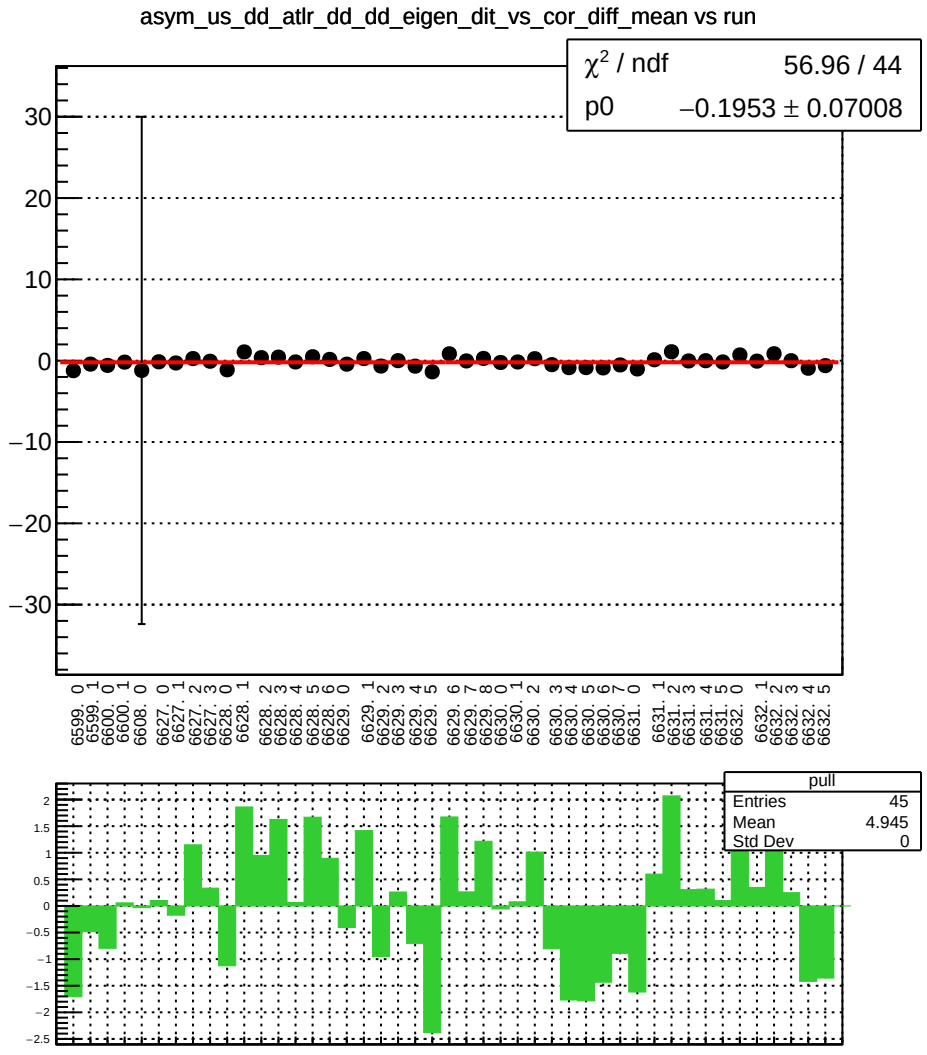

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.061e+04 / 44
p0 45.19 ± 0.04955
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

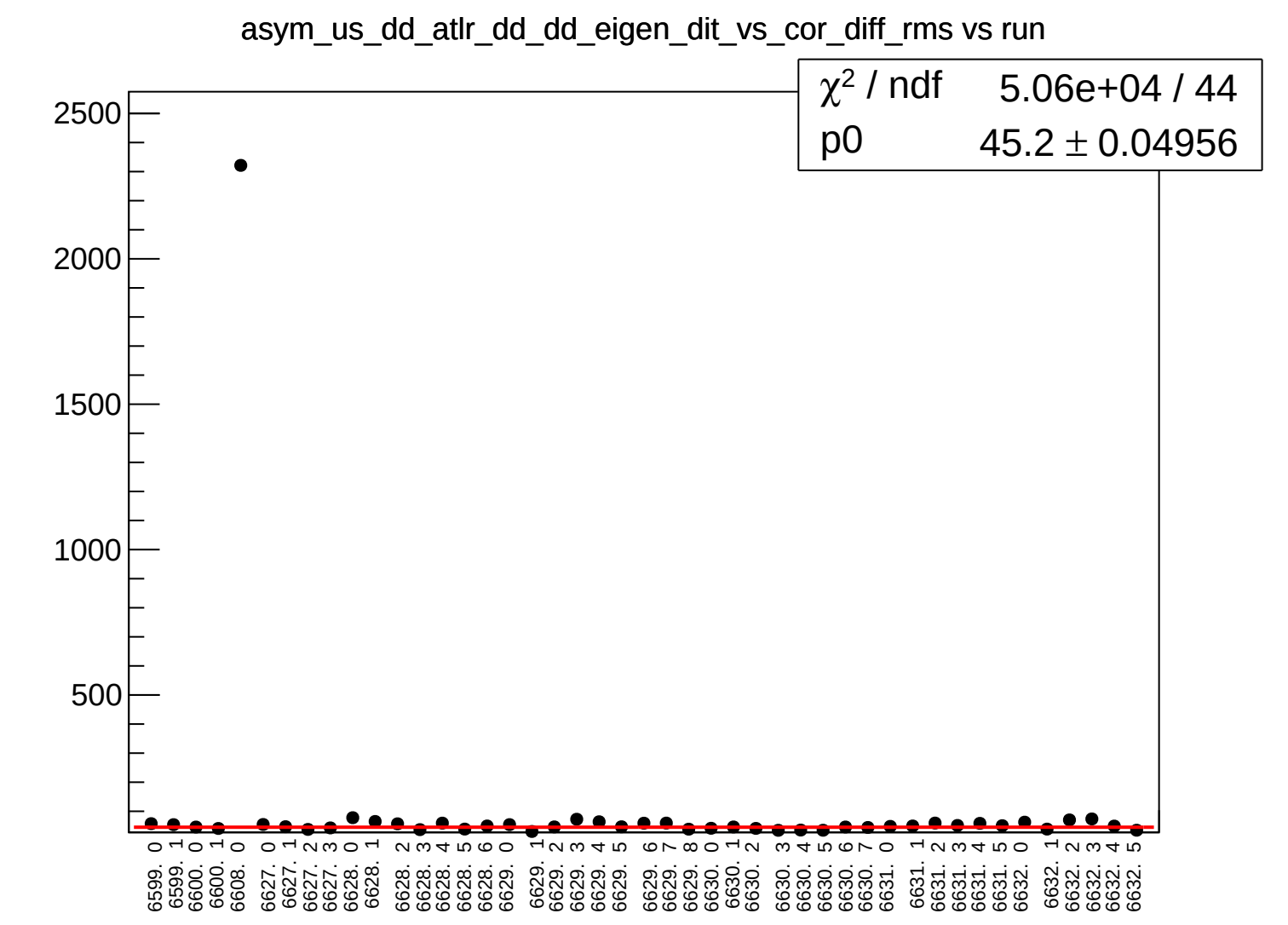

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 56.96 / 44
p0 −0.1953 ± 0.07008
30
20
10
0
−10
−20
−30
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 4.944
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.03402
Std Dev 1.125
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

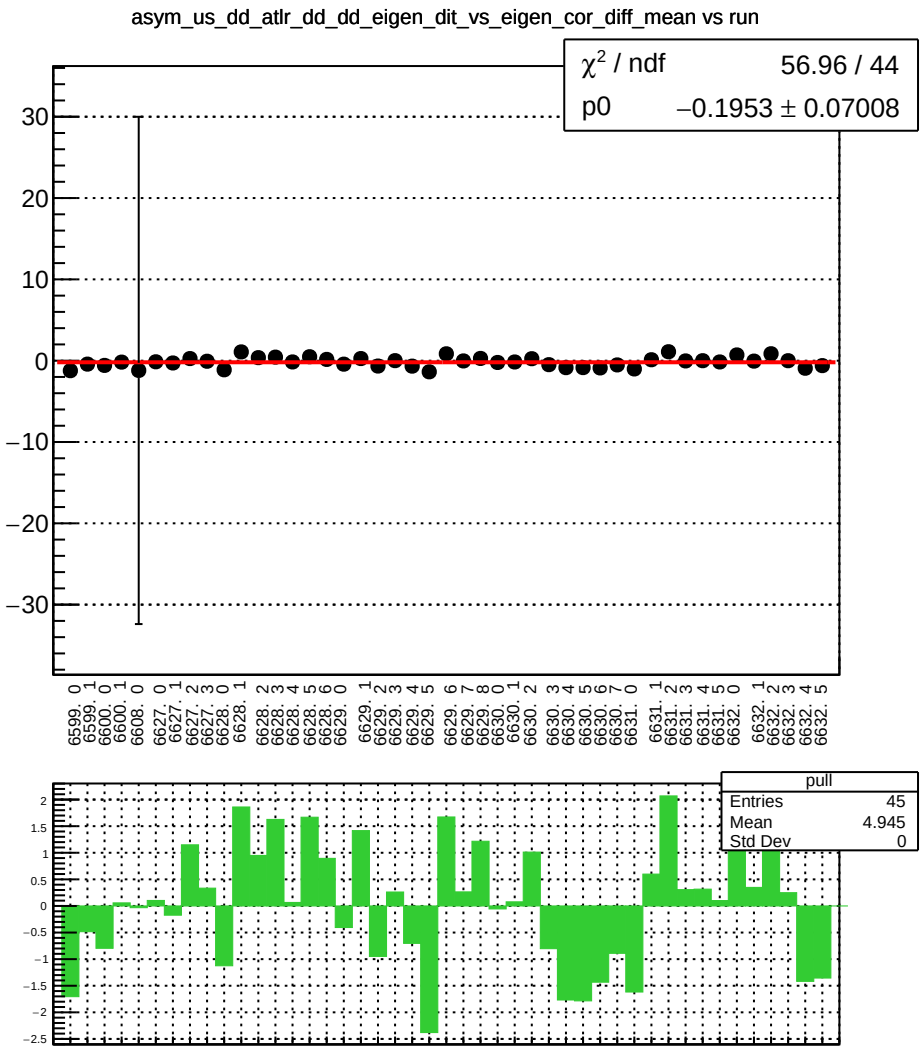

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.061e+04 / 44
p0 45.19 ± 0.04955
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

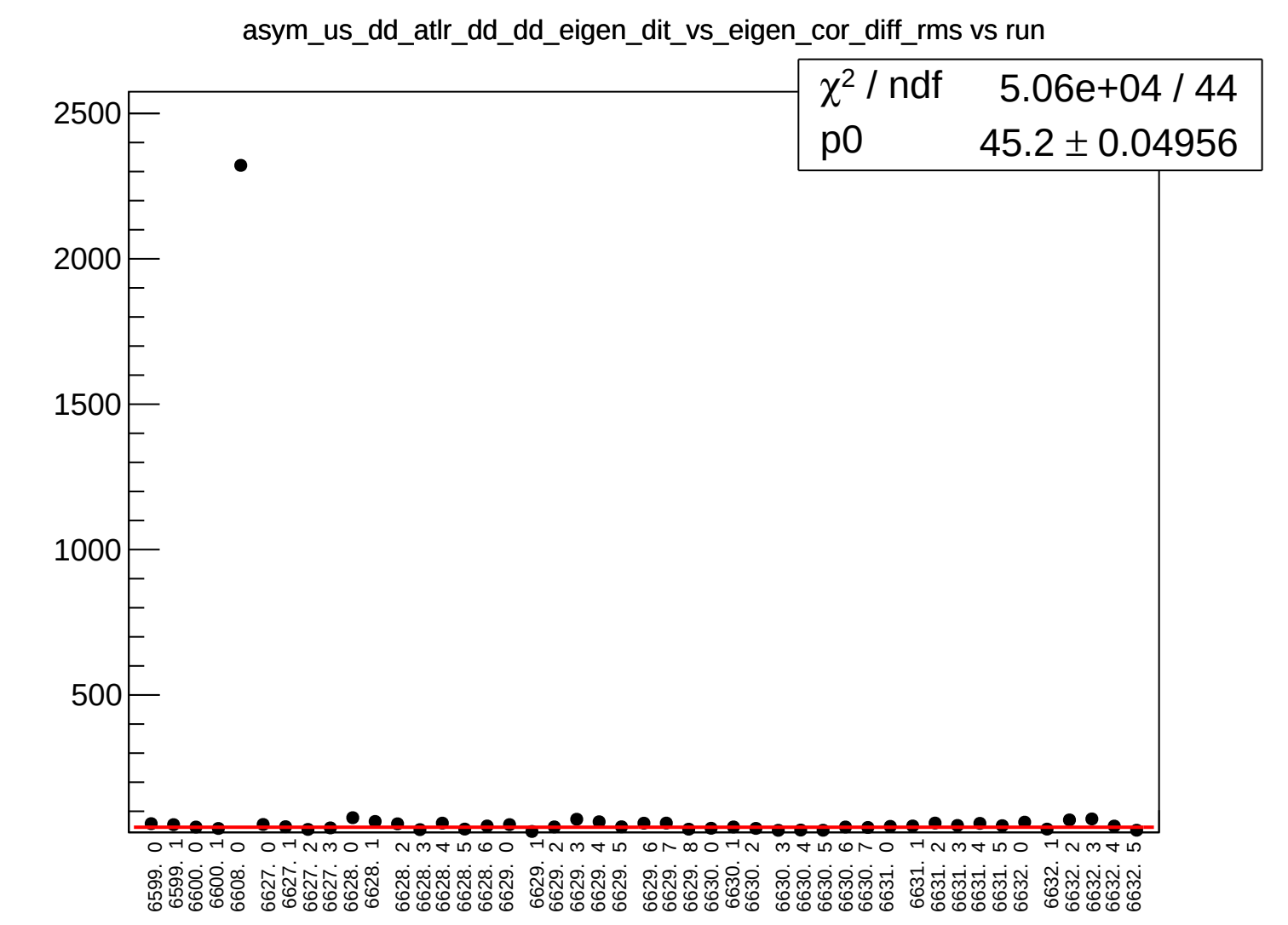

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 62.12 / 44
p0 −1.466e−05 ± 1.312e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 14.45
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.06853
Std Dev 1.173
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

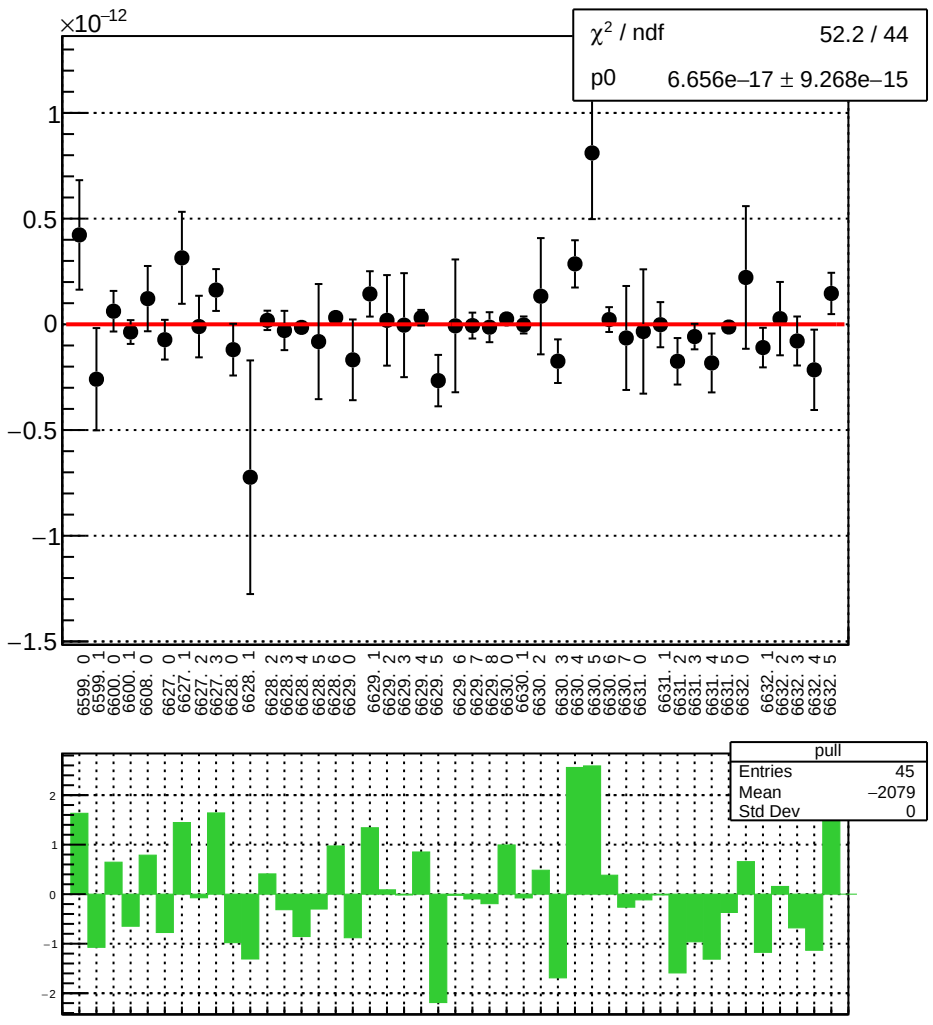

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.722e+04 / 44
p0 0.008578 ± 9.275e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

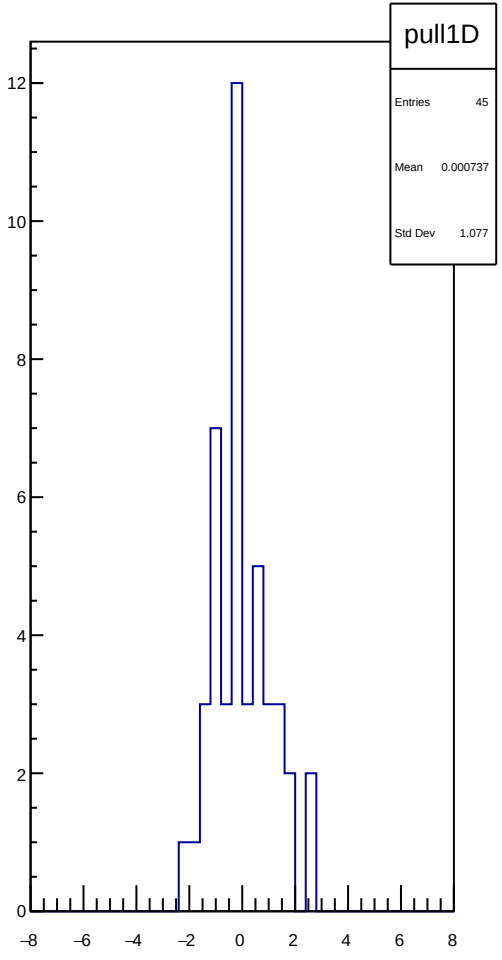

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 56.96 / 44
p0 −0.1953 ± 0.07008
30
20
10
0
−10
−20
−30
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 4.945
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.03403
Std Dev 1.125
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

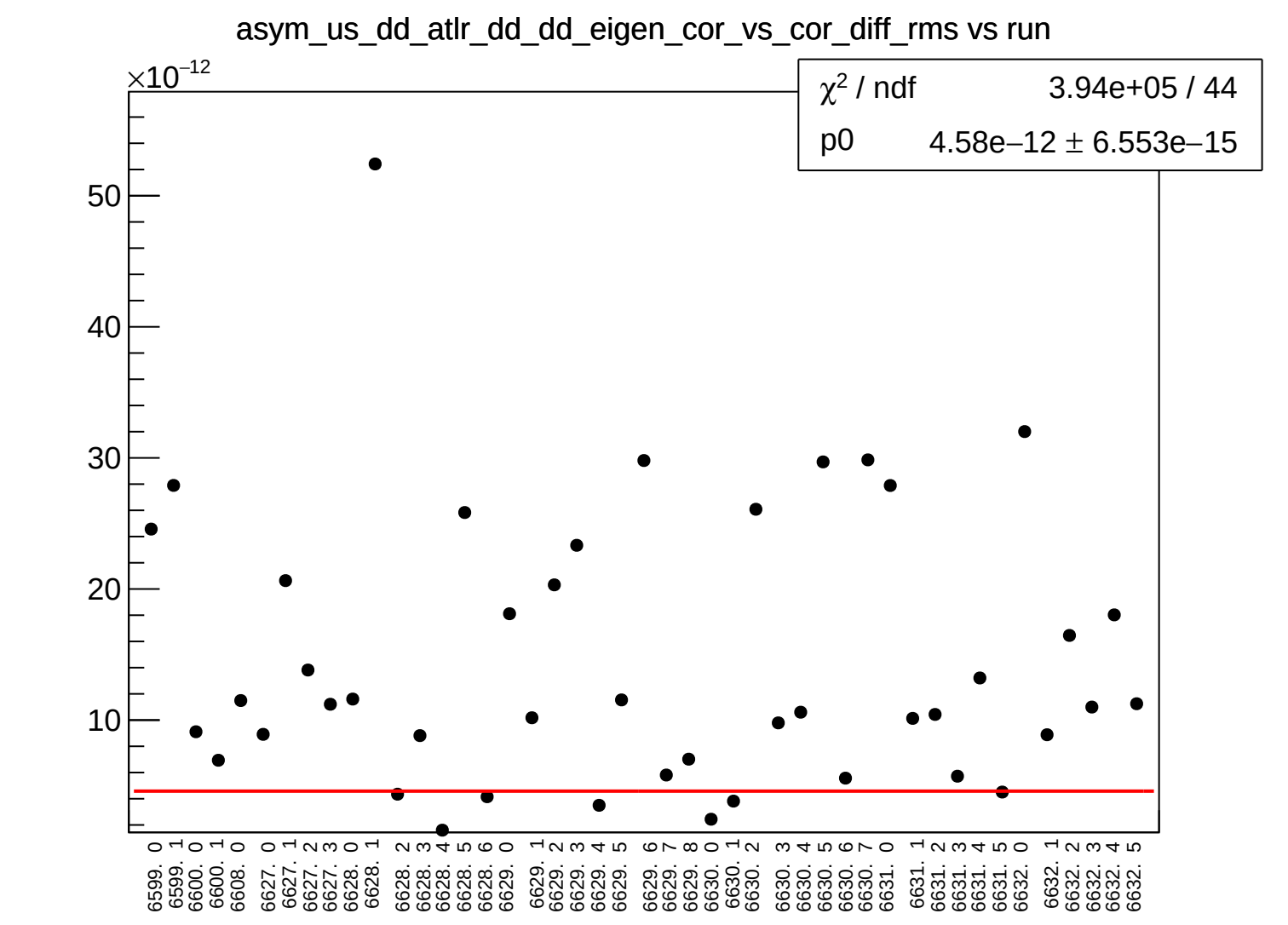

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.06e+04 / 44
p0 45.2 ± 0.04956
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

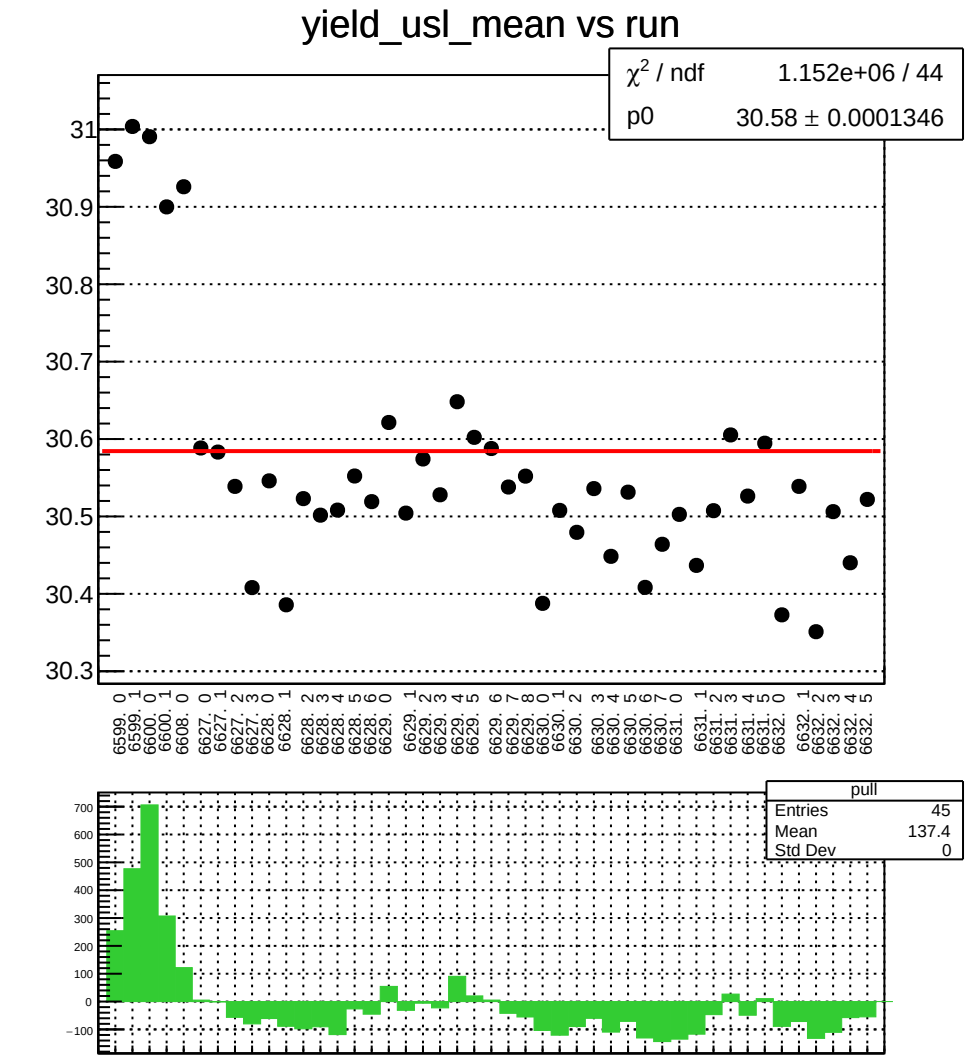

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 56.96 / 44
p0 −0.1953 ± 0.07008
30
20
10
0
−10
−20
−30
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 4.945
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.03403
Std Dev 1.125
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

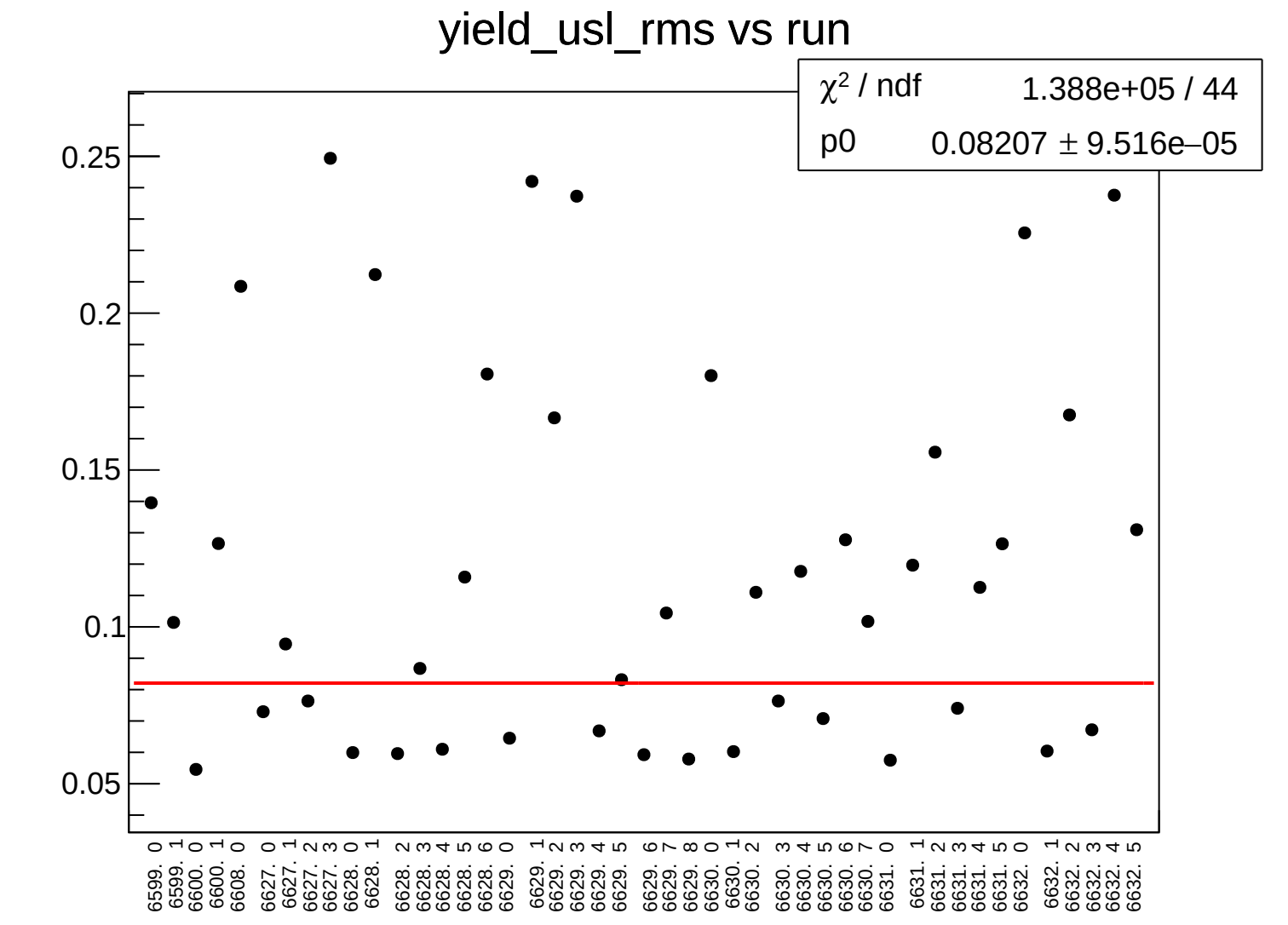

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.06e+04 / 44
p0 45.2 ± 0.04956
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

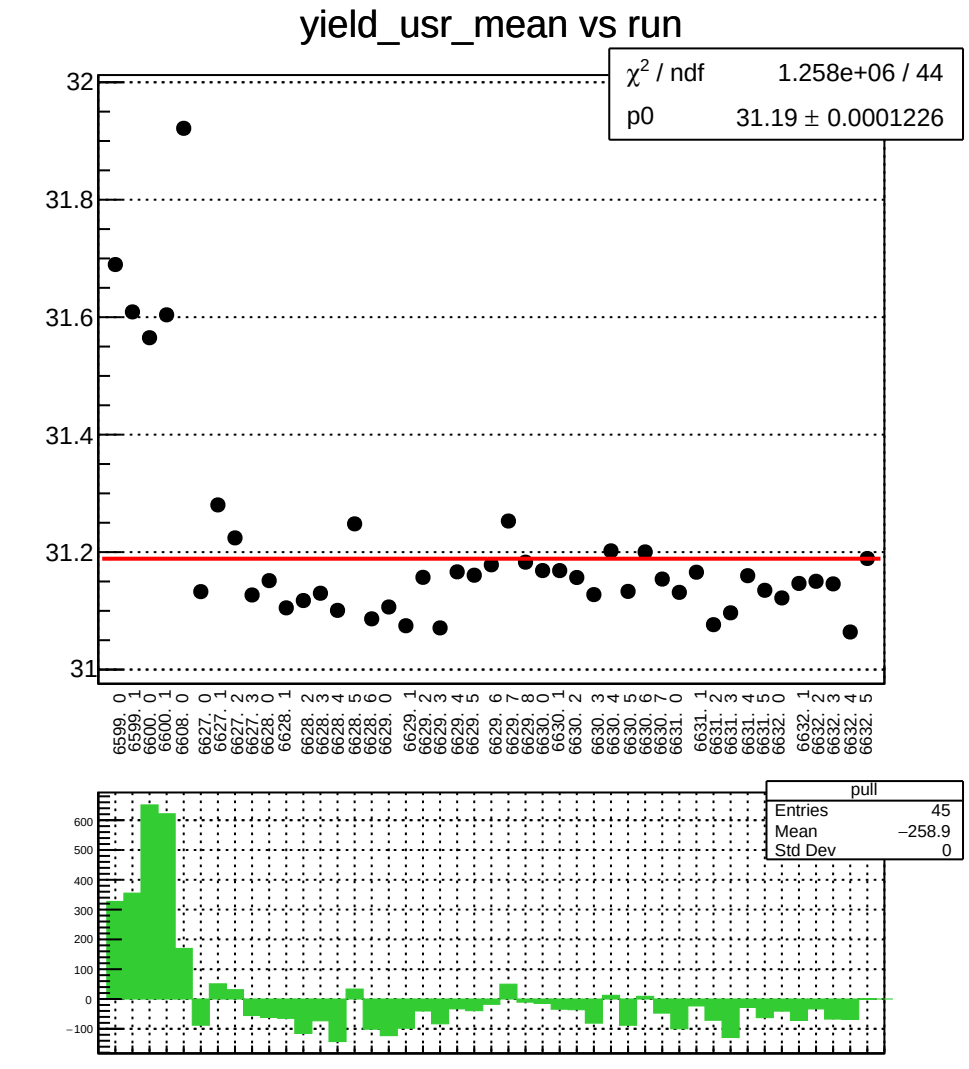

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 52.2 / 44
p0 6.656e−17 ± 9.268e−15
pull
Entries 45
Mean −2079
Std Dev 0

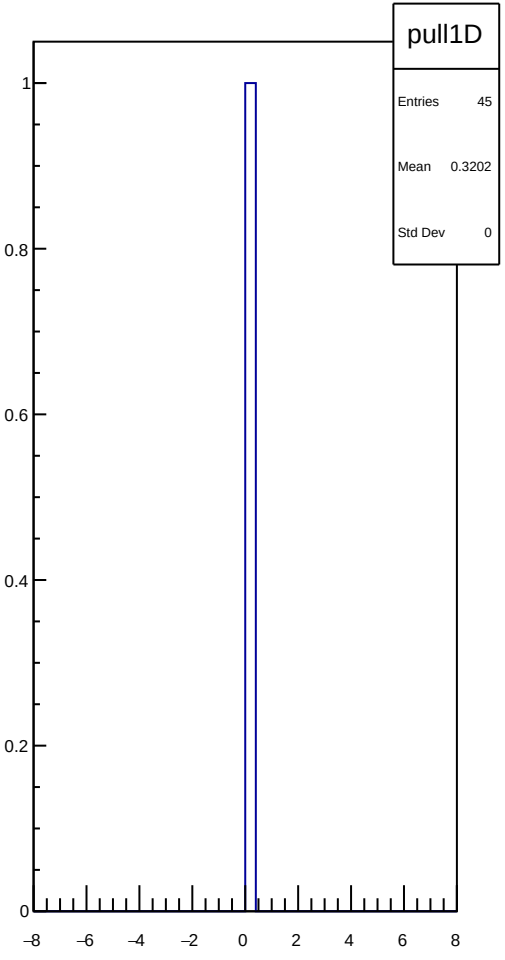

pull1D
Entries 45
Mean 0.000737
Std Dev 1.077

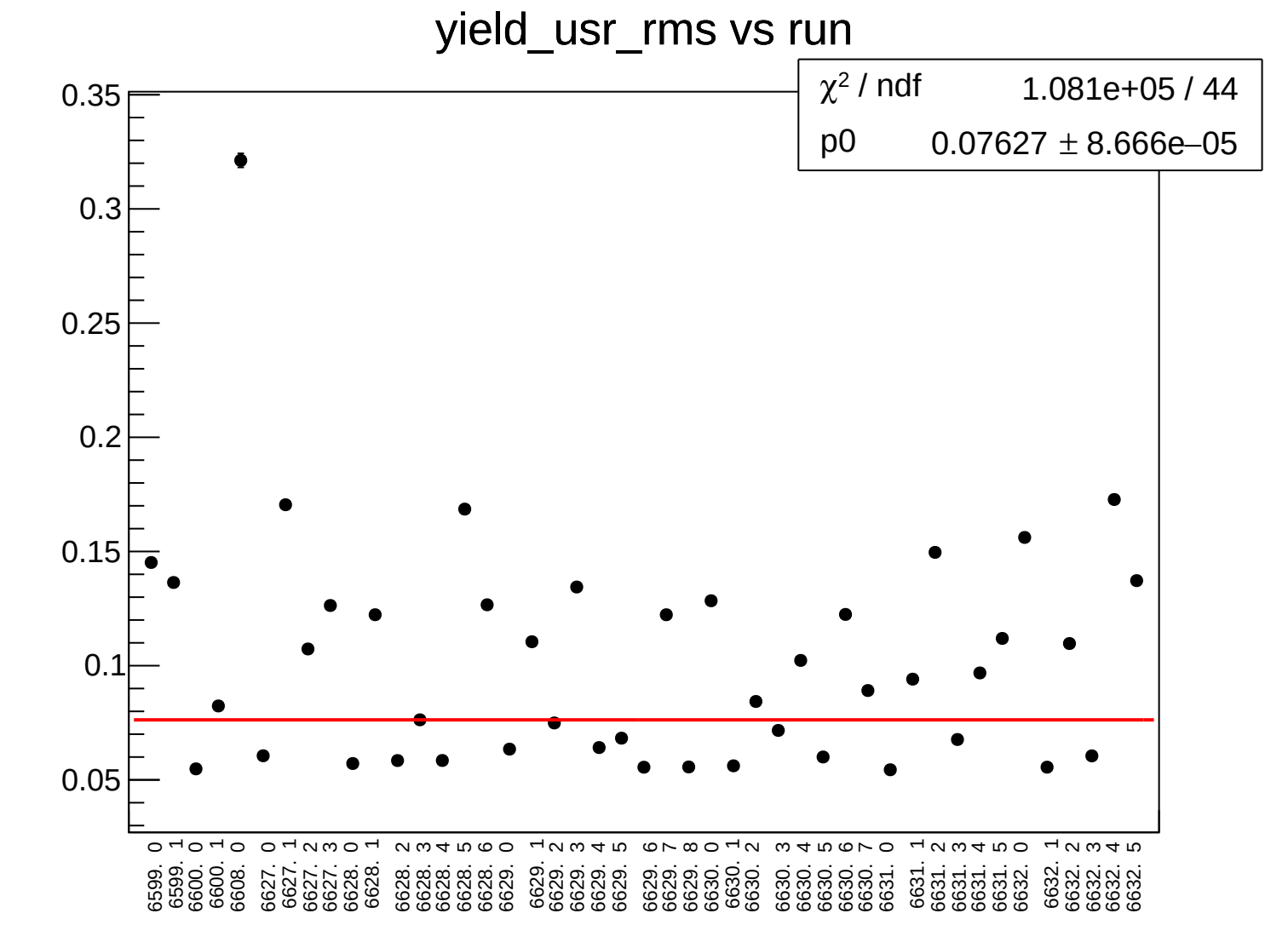

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.94e+05 / 44
p0 4.58e−12 ± 6.553e−15
50
40
30
20
10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

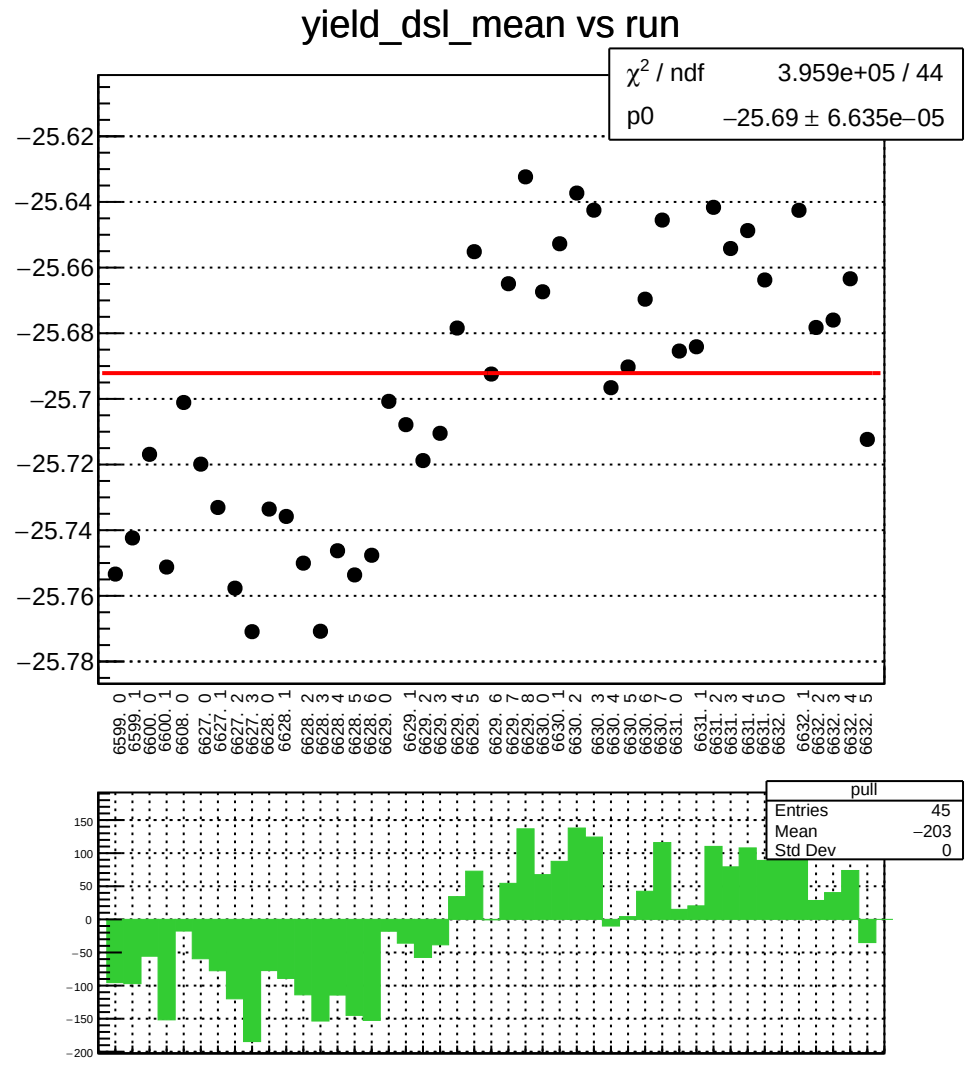

yield_usl_mean vs run
χ² / ndf 1.152e+06 / 44
p0 30.58 ± 0.0001346
31
30.9
30.8
30.7
30.6
30.5
30.4
30.3
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 137.4
Std Dev 0
700
600
500
400
300
200
100
0
−100
pull1D
Entries 45
Mean 0.8738
Std Dev 4.682
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

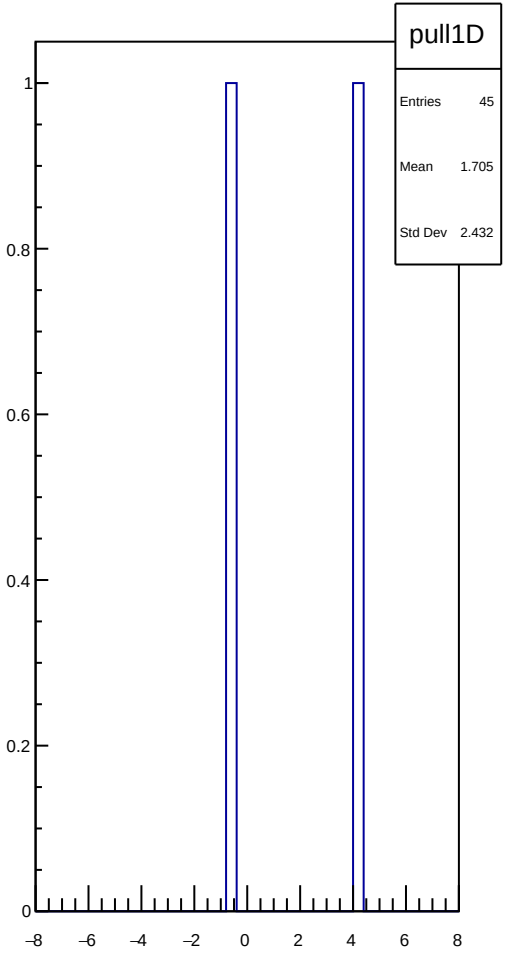

yield_usl_rms vs run
χ² / ndf 1.388e+05 / 44
p0 0.08207 ± 9.516e–05
0.25
0.2
0.15
0.1
0.05
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

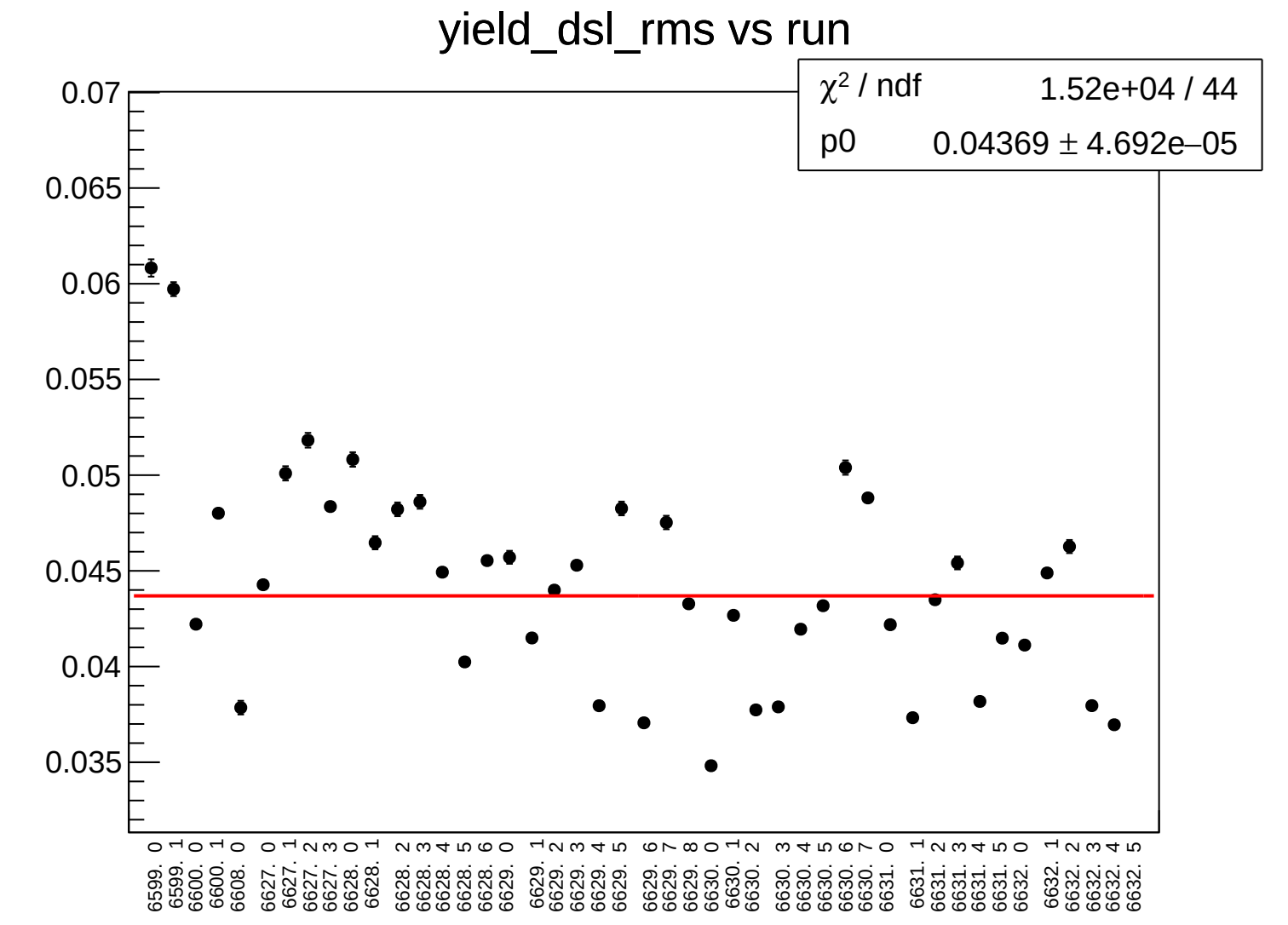

yield_usr_mean vs run
χ² / ndf 1.258e+06 / 44
p0 31.19 ± 0.0001226
32
31.8
31.6
31.4
31.2
31
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −258.9
Std Dev 0
600
500
400
300
200
100
0
−100

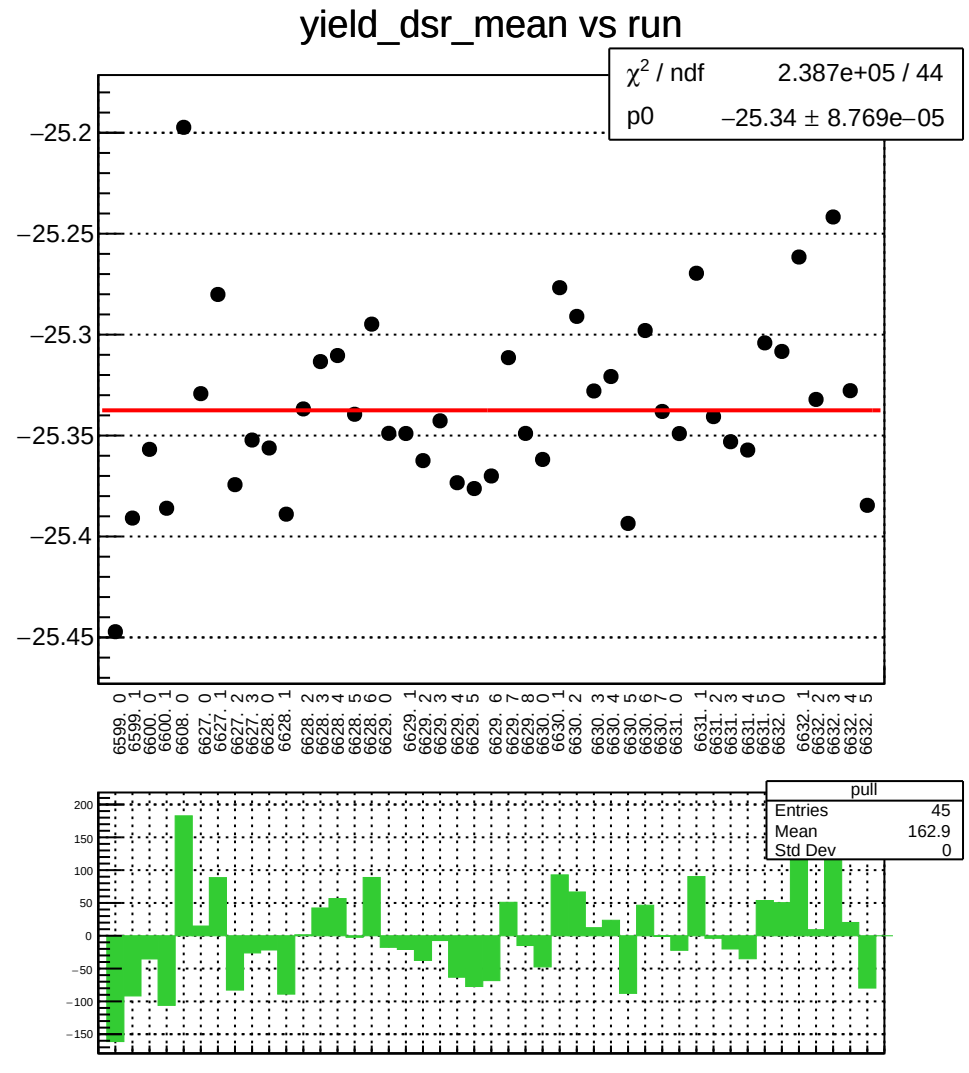

pull1D
Entries 45
Mean 0.3202
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

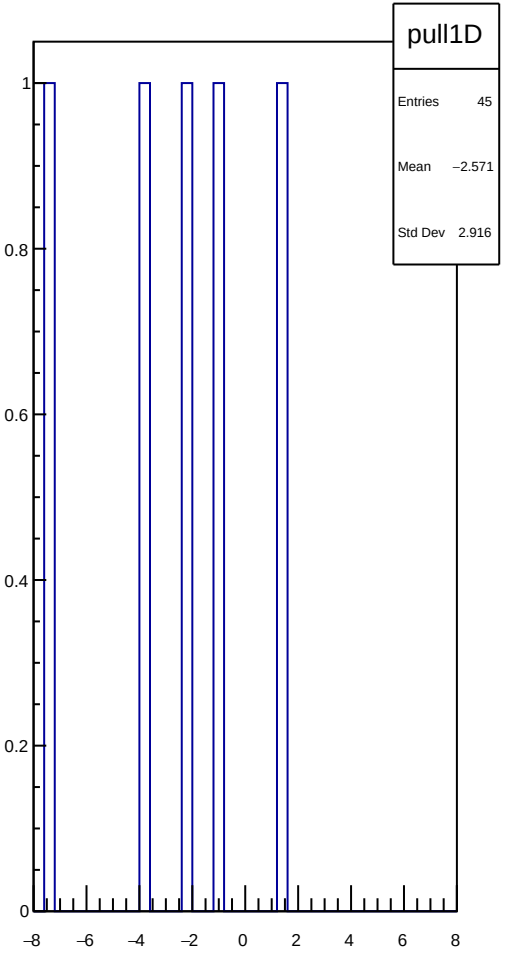

yield_usr_rms vs run
χ² / ndf 1.081e+05 / 44
p0 0.07627 ± 8.666e–05
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

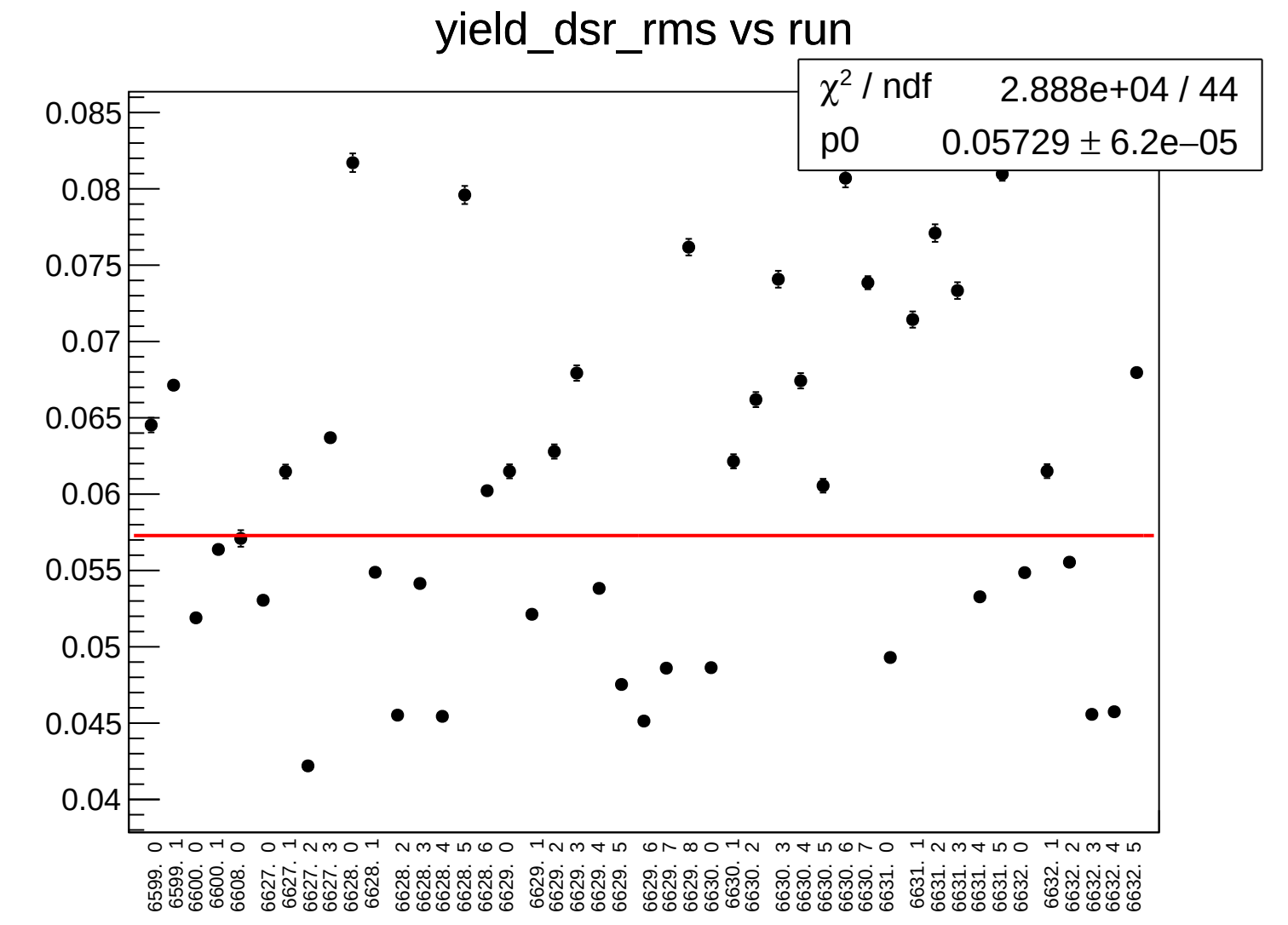

yield_dsl_mean vs run
χ² / ndf 3.959e+05 / 44
p0 −25.69 ± 6.635e−05
−25.62
−25.64
−25.66
−25.68
−25.7
−25.72
−25.74
−25.76
−25.78
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −203
Std Dev 0
150
100
50
0
−50
−100
−150
−200

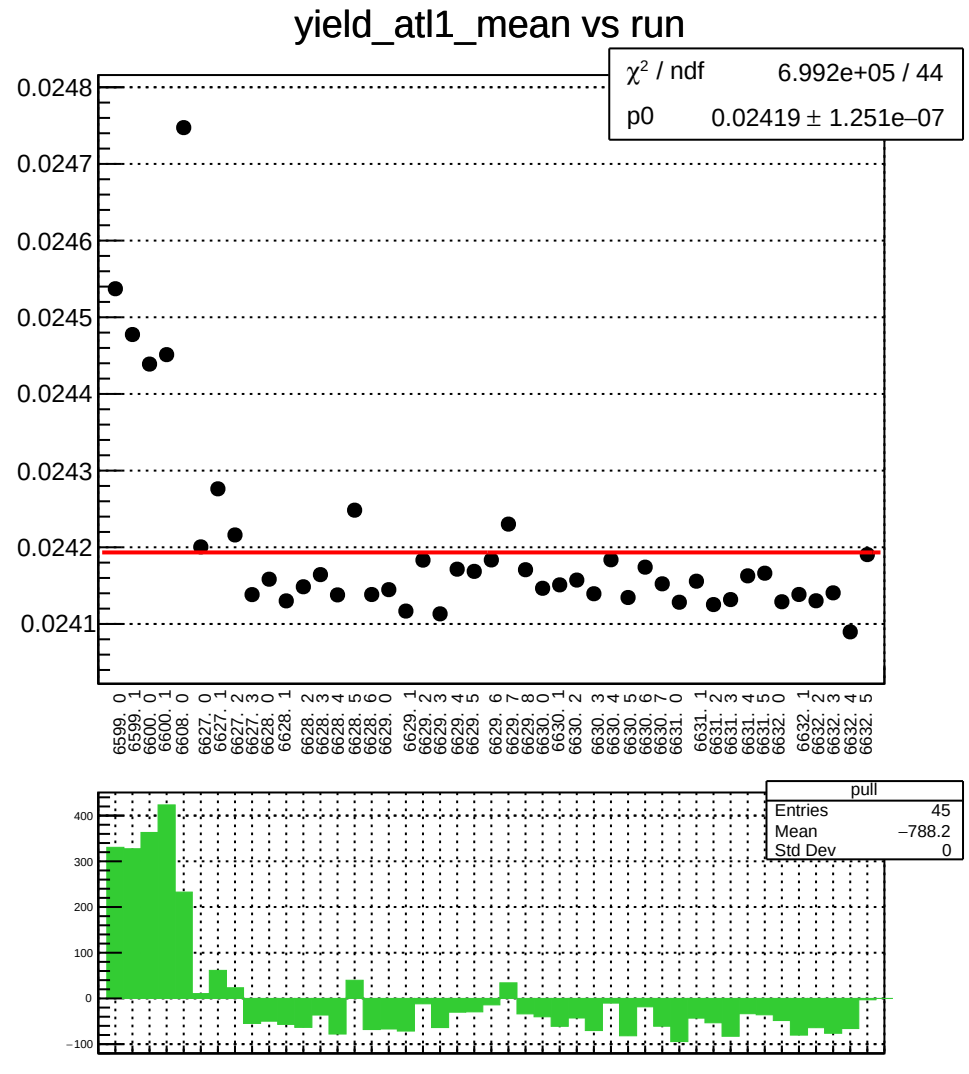

pull1D
Entries 45
Mean 1.705
Std Dev 2.432
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

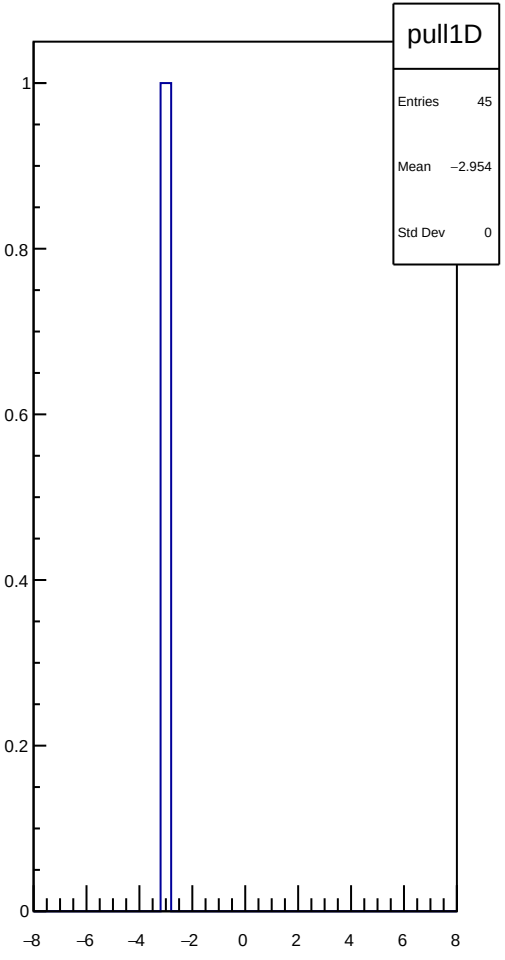

yield_dsl_rms vs run
χ² / ndf 1.52e+04 / 44
p0 0.04369 ± 4.692e−05
0.07
0.065
0.06
0.055
0.05
0.045
0.04
0.035
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

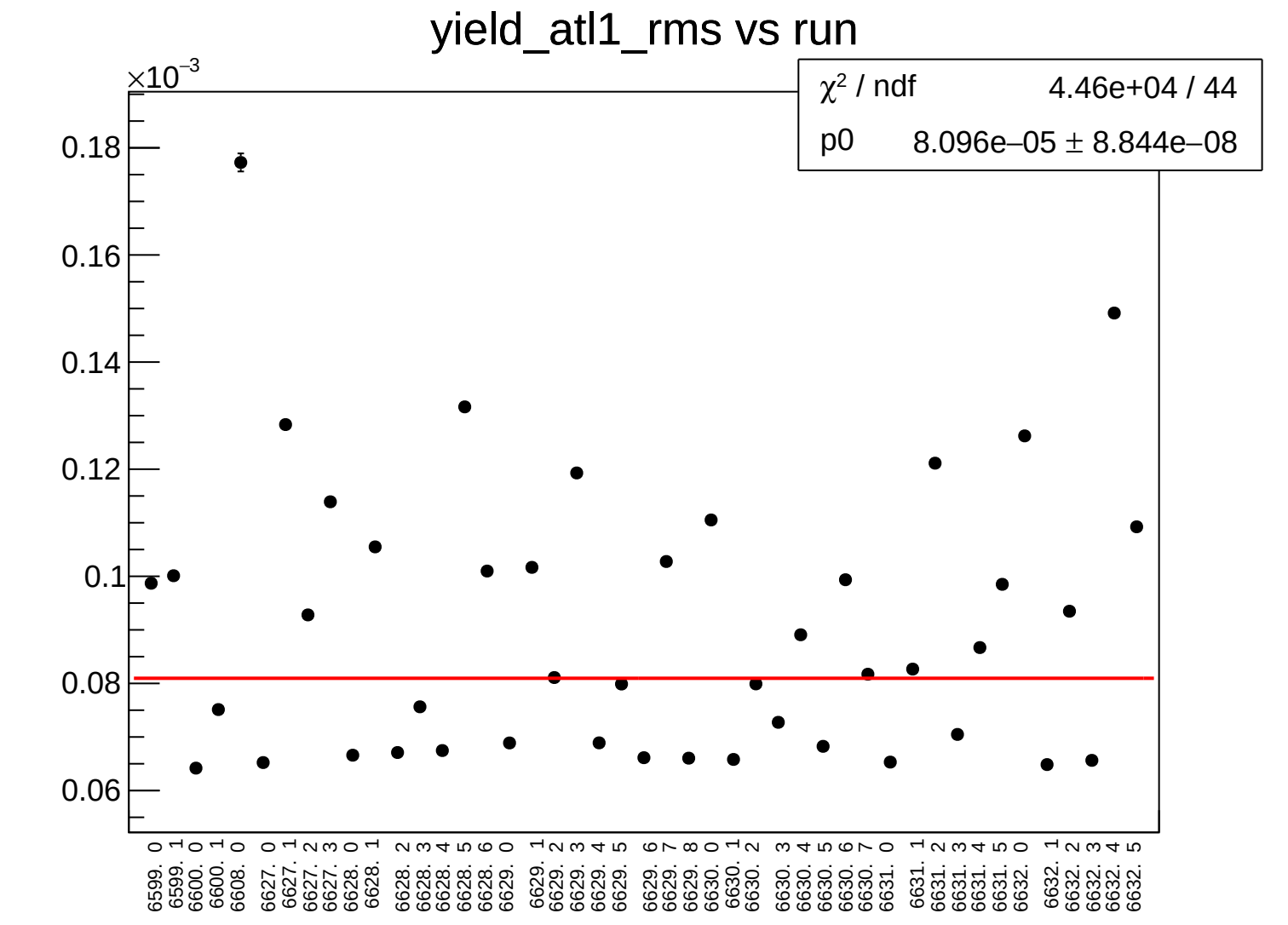

yield_dsr_mean vs run
χ² / ndf 2.387e+05 / 44
p0 −25.34 ± 8.769e−05
−25.2
−25.25
−25.3
−25.35
−25.4
−25.45
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 162.9
Std Dev 0
200
150
100
50
0
−50
−100
−150

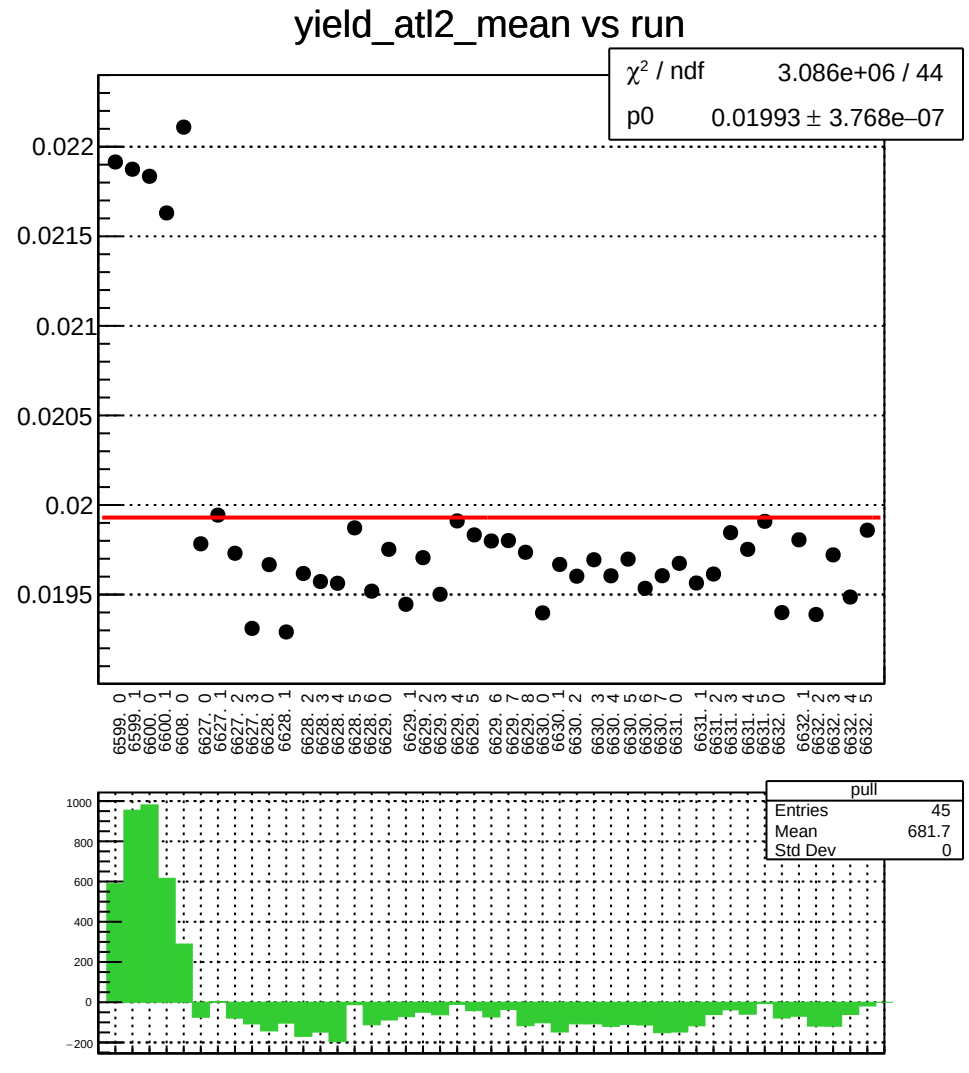

pull1D
Entries 45
Mean −2.571
Std Dev 2.916
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

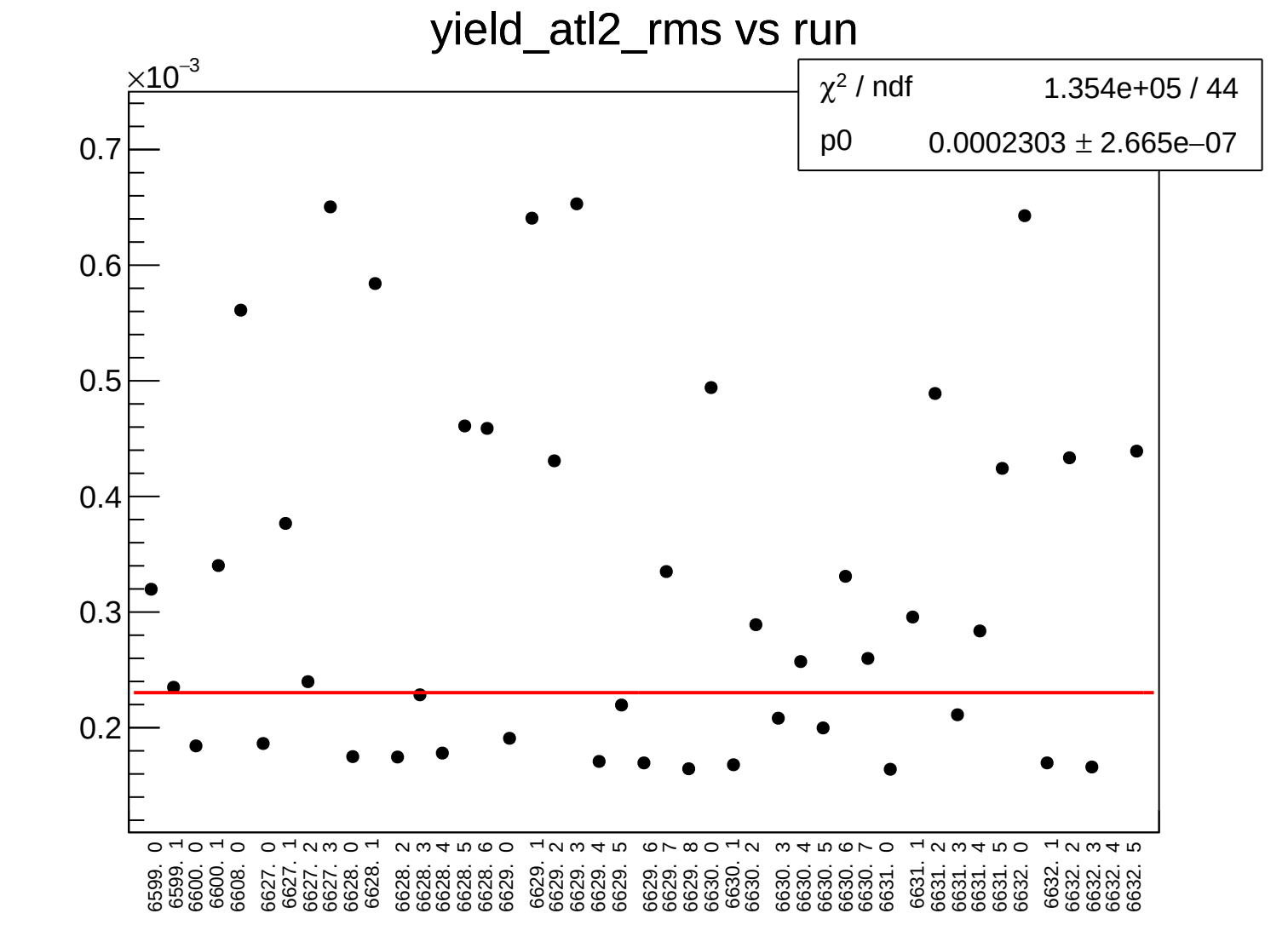

yield_dsr_rms vs run
χ² / ndf 2.888e+04 / 44
p0 0.05729 ± 6.2e−05
0.085
0.08
0.075
0.07
0.065
0.06
0.055
0.05
0.045
0.04
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

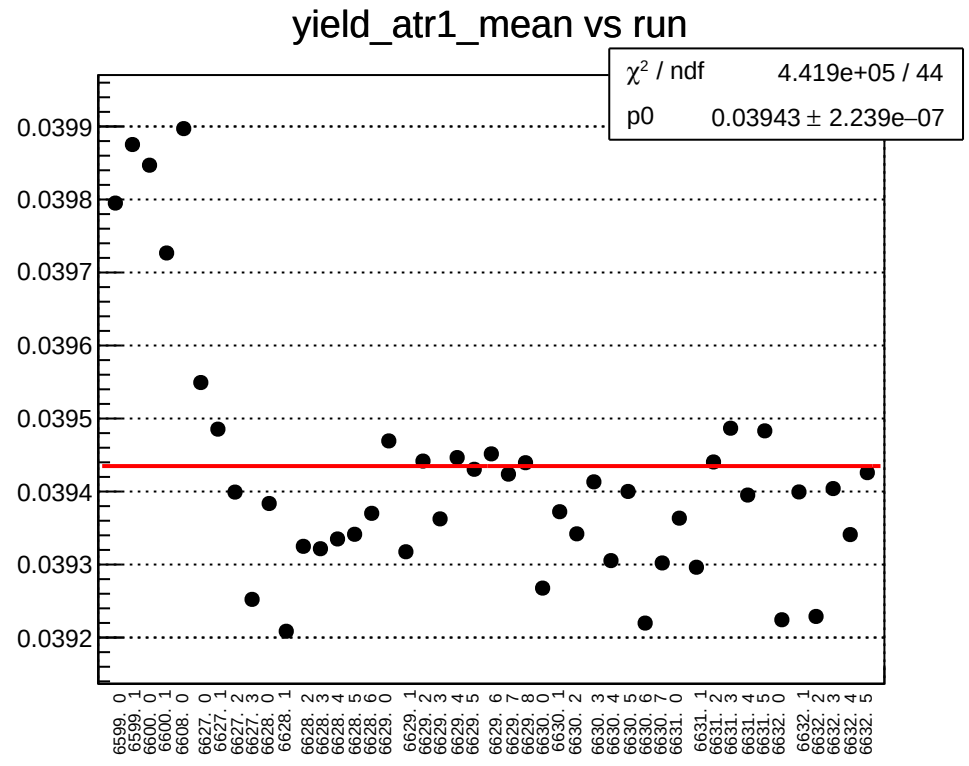

yield_atl1_mean vs run
χ² / ndf 6.992e+05 / 44
p0 0.02419 ± 1.251e−07
0.0248
0.0247
0.0246
0.0245
0.0244
0.0243
0.0242
0.0241
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −788.2
Std Dev 0
400
300
200
100
0
−100

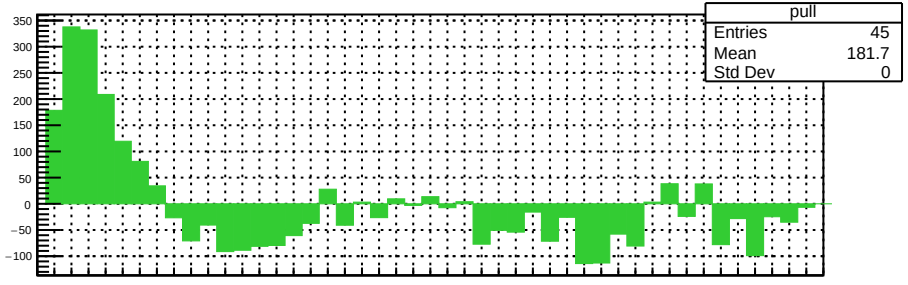

pull1D
Entries 45
Mean −2.954
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

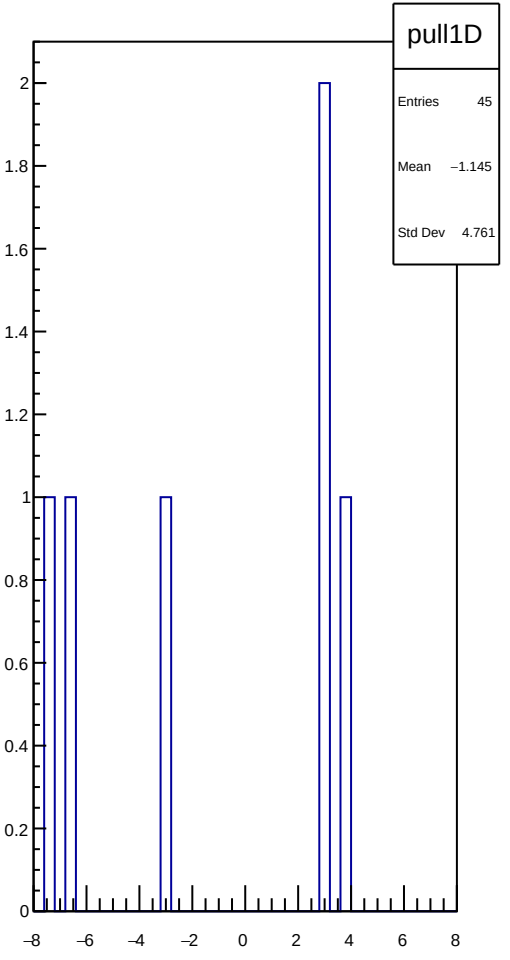

yield_atl1_rms vs run
×10⁻³
χ² / ndf 4.46e+04 / 44
p0 8.096e−05 ± 8.844e−08
0.18
0.16
0.14
0.12
0.1
0.08
0.06
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

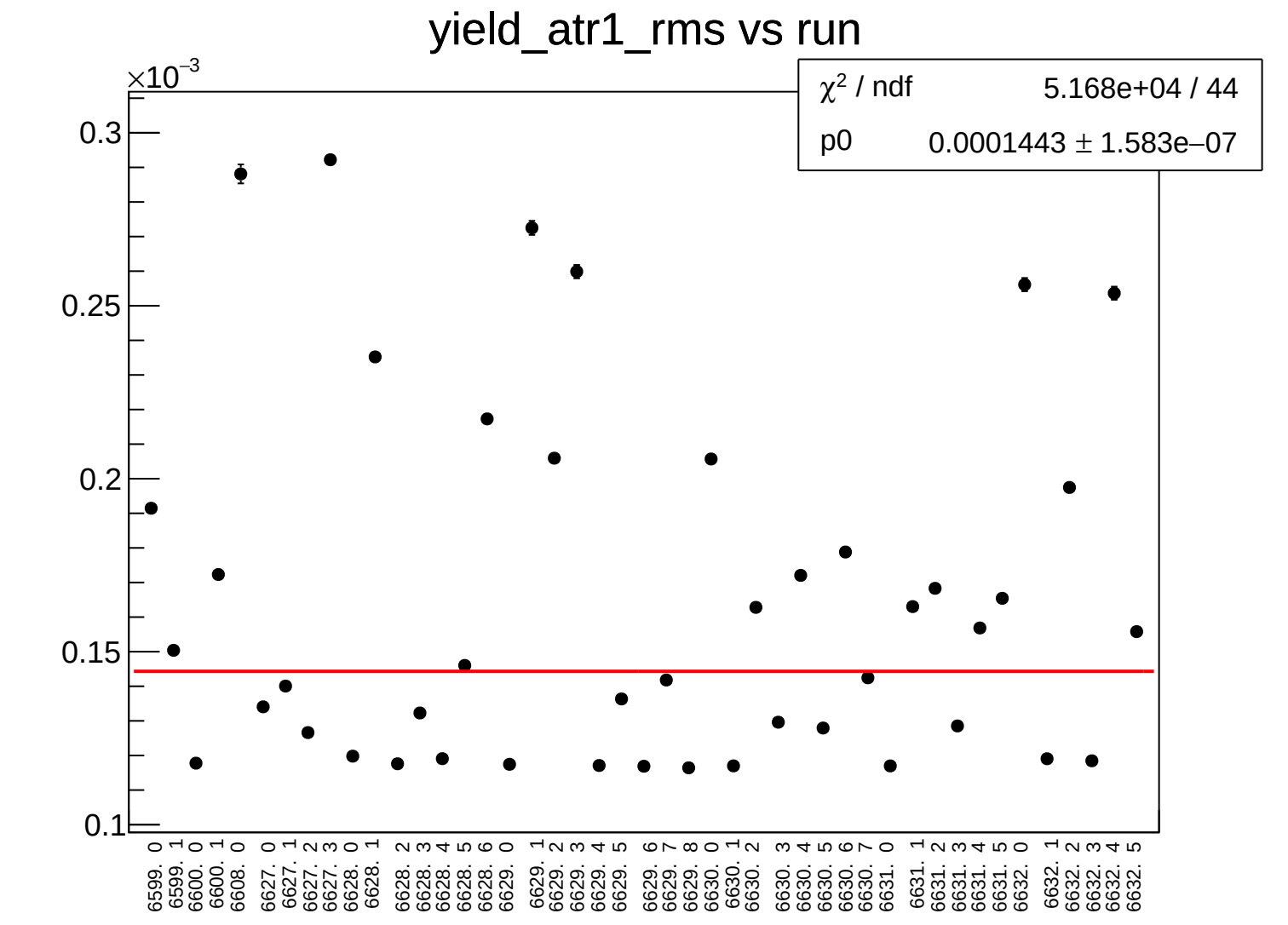

yield_atl2_mean vs run
χ² / ndf 3.086e+06 / 44
p0 0.01993 ± 3.768e−07
0.022
0.0215
0.021
0.0205
0.02
0.0195
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 681.7
Std Dev 0
1000
800
600
400
200
0
−200
pull1D
Entries 45
Mean −1.513
Std Dev 4.917
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

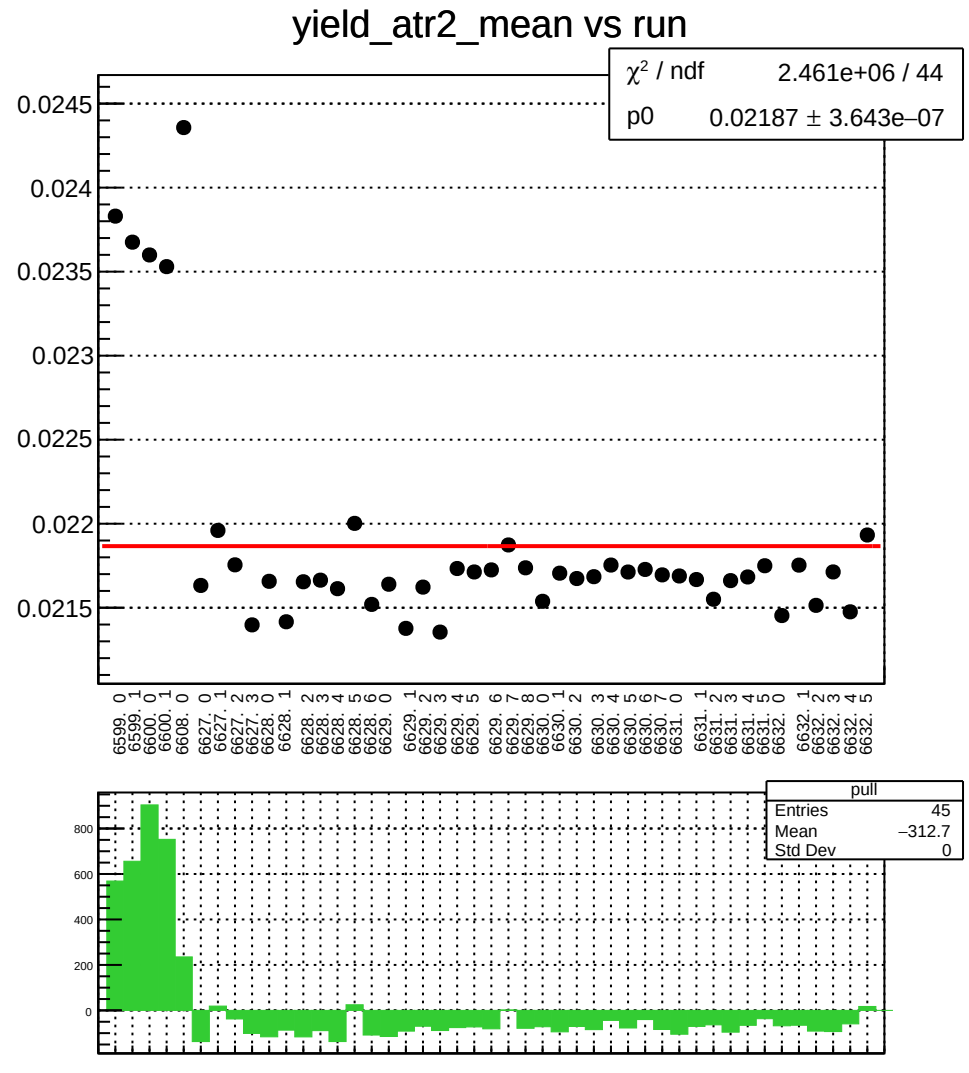

yield_atl2_rms vs run
×10⁻³
χ² / ndf 1.354e+05 / 44
p0 0.0002303 ± 2.665e−07
0.7
0.6
0.5
0.4
0.3
0.2
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

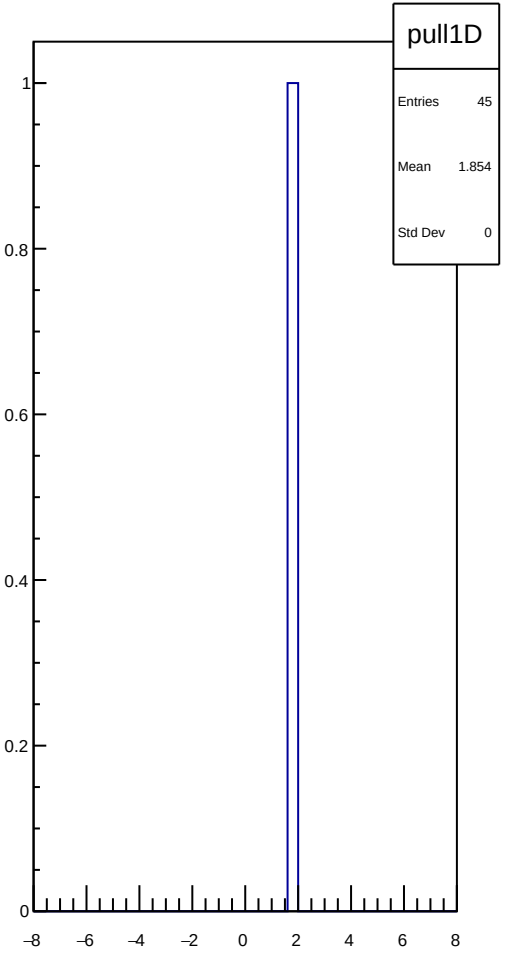

yield_atr1_mean vs run
χ² / ndf 4.419e+05 / 44
p0 0.03943 ± 2.239e−07
0.0399
0.0398
0.0397
0.0396
0.0395
0.0394
0.0393
0.0392
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

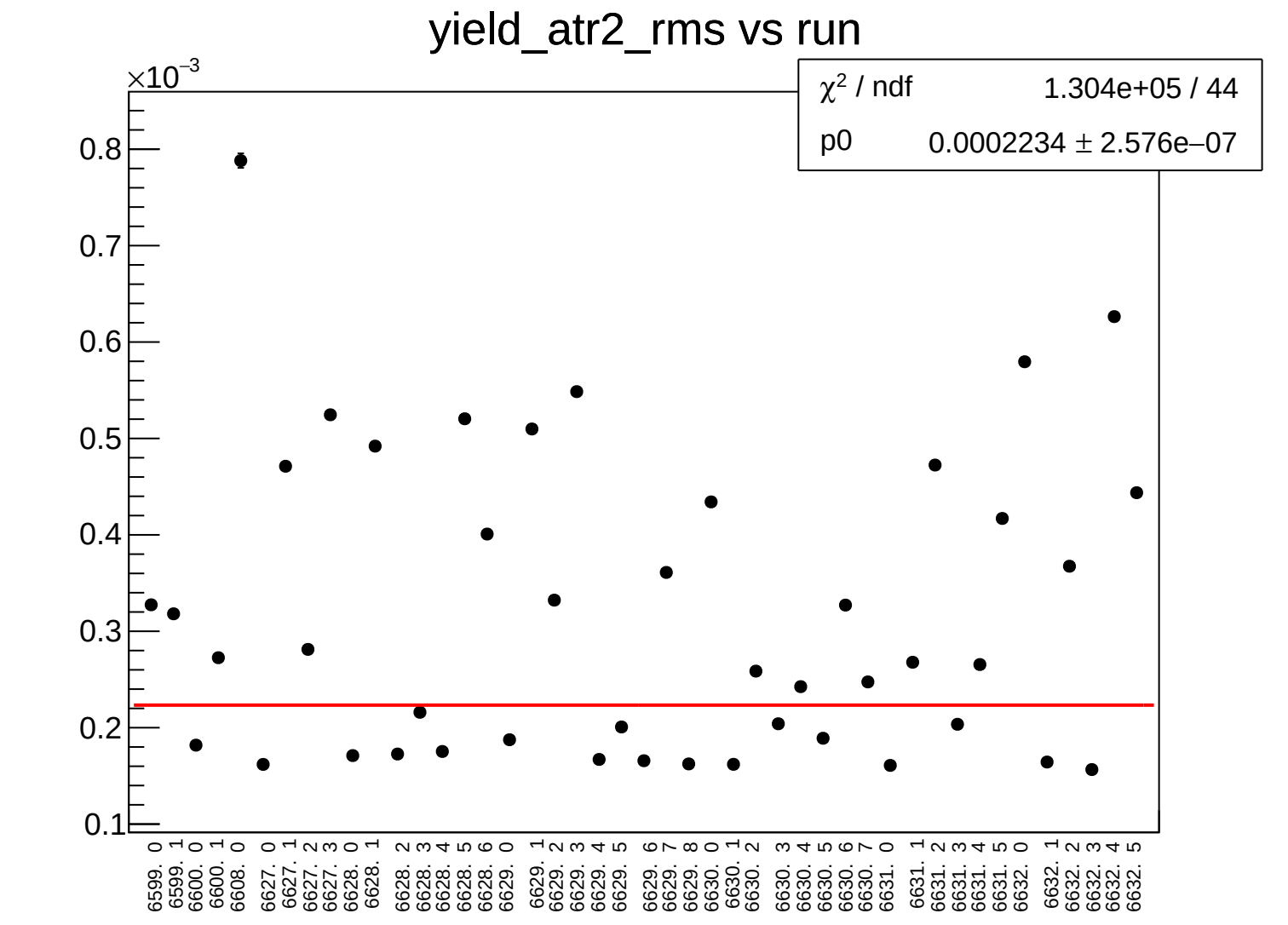

pull
Entries 45
Mean 181.7
Std Dev 0
350
300
250
200
150
100
50
0
−50
−100

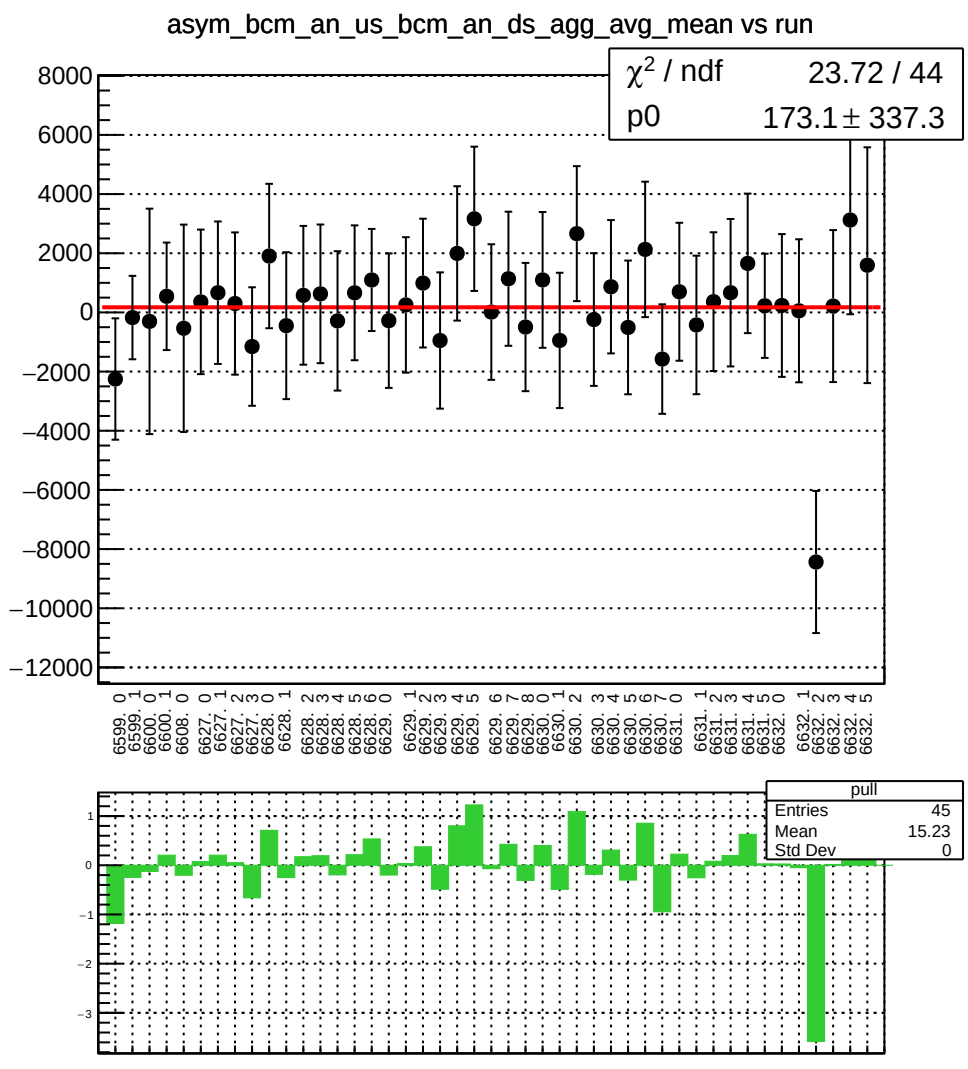

pull1D
Entries 45
Mean −1.145
Std Dev 4.761
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

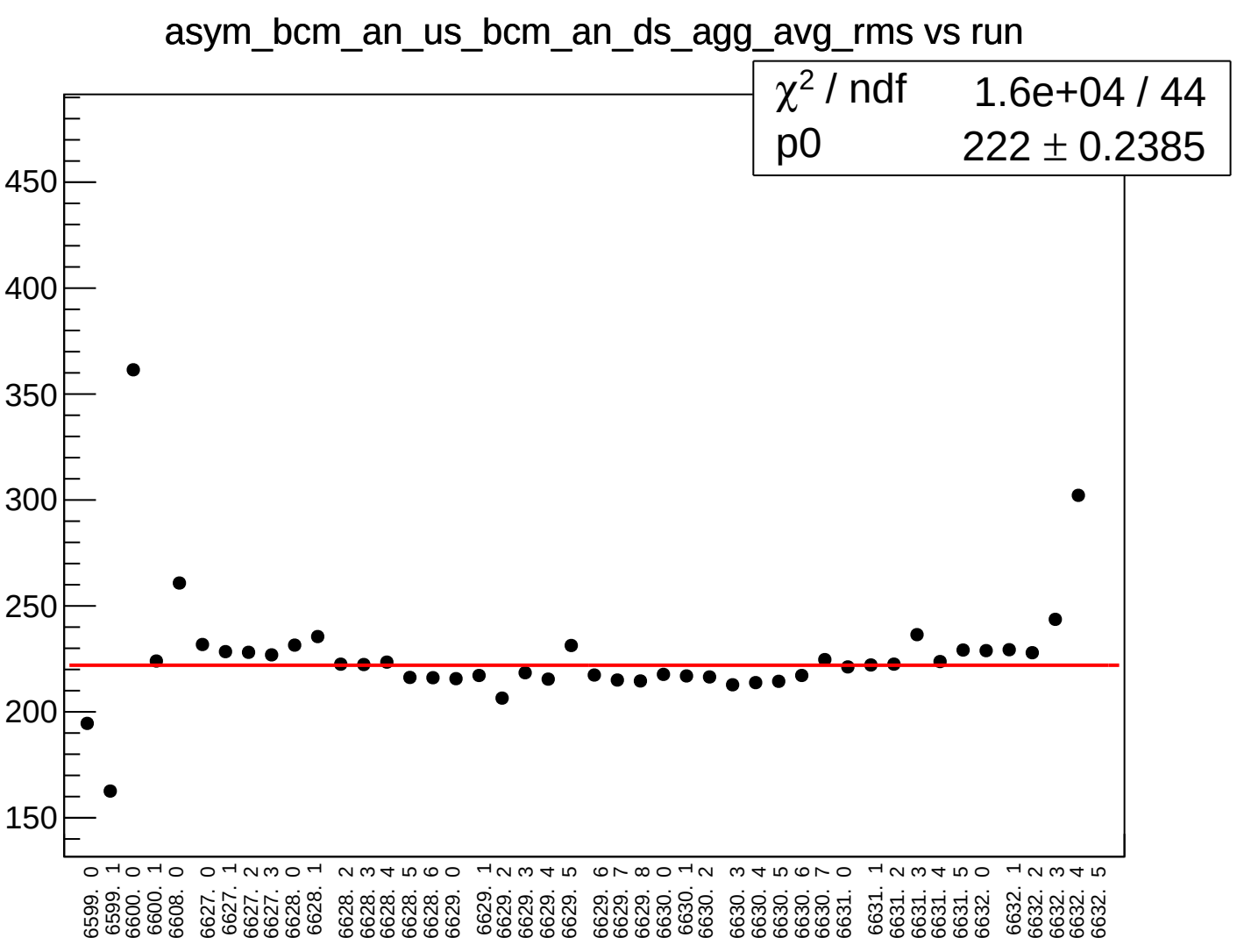

yield_atr1_rms vs run
×10⁻³
χ² / ndf 5.168e+04 / 44
p0 0.0001443 ± 1.583e−07
0.3
0.25
0.2
0.15
0.1
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

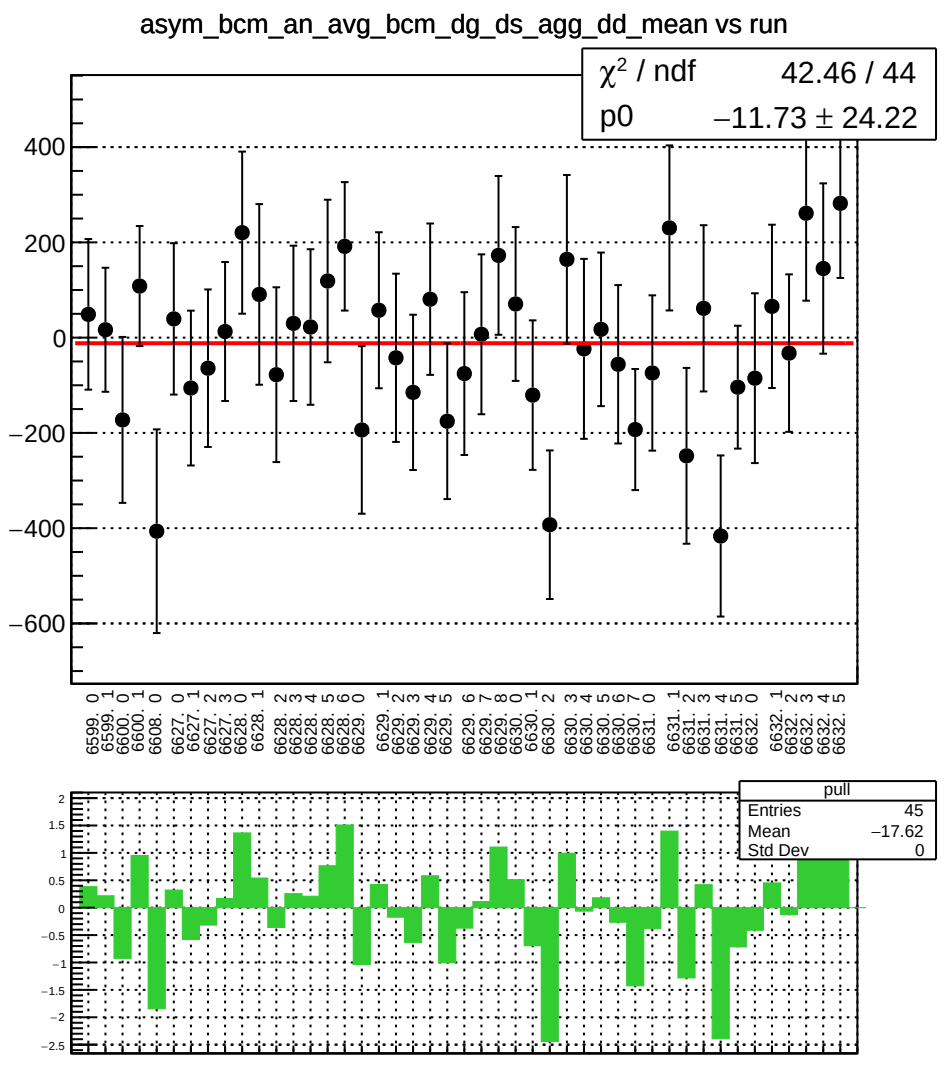

yield_atr2_mean vs run
χ² / ndf 2.461e+06 / 44
p0 0.02187 ± 3.643e–07
0.0245
0.024
0.0235
0.023
0.0225
0.022
0.0215
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean –312.7
Std Dev 0
800
600
400
200
0

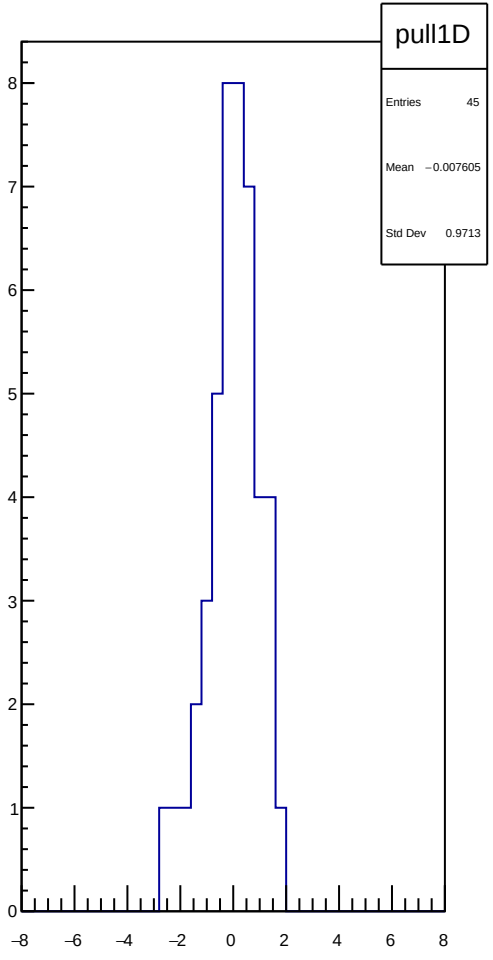

pull1D
Entries 45
Mean 1.854
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

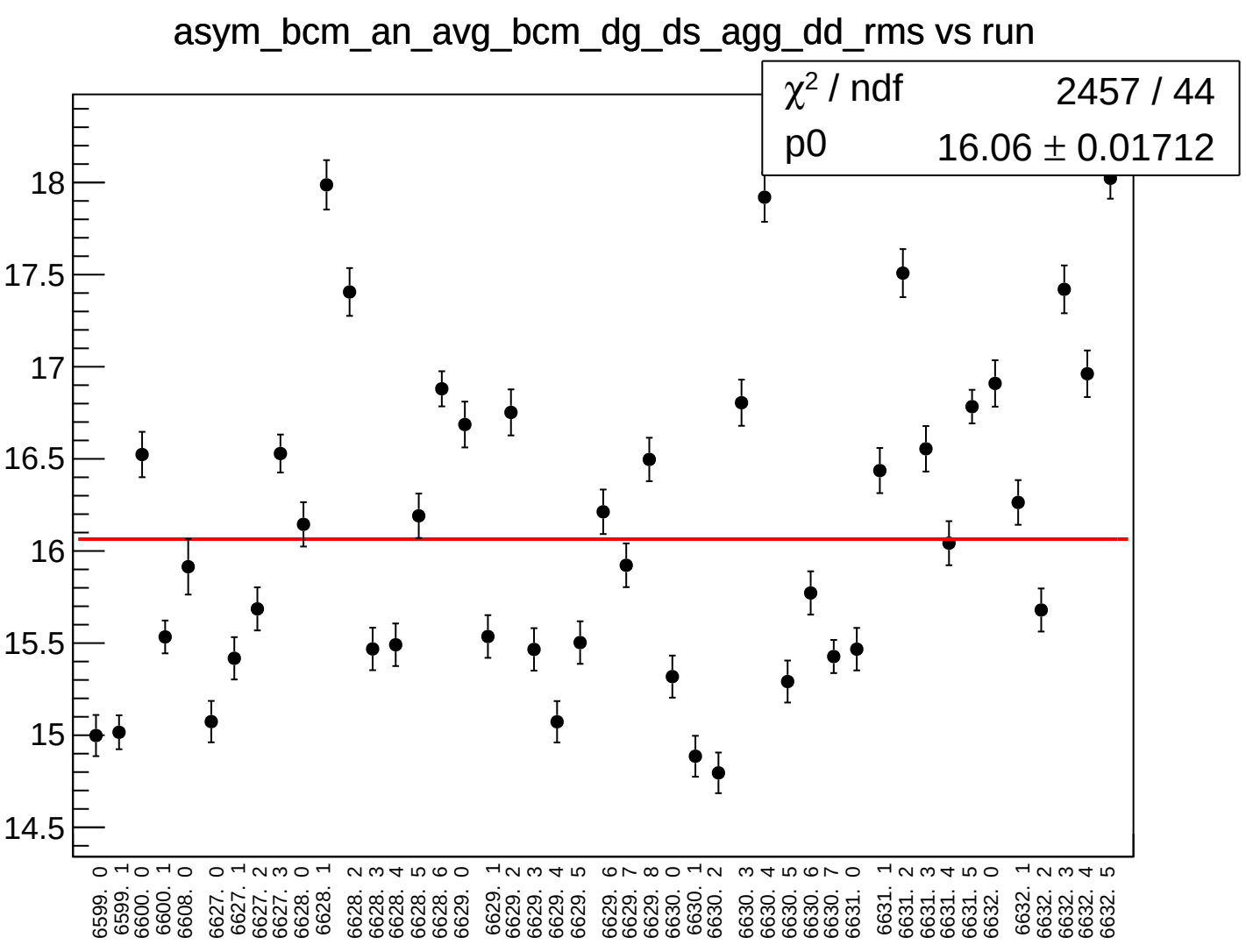

yield_atr2_rms vs run
×10⁻³
χ² / ndf 1.304e+05 / 44
p0 0.0002234 ± 2.576e−07
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

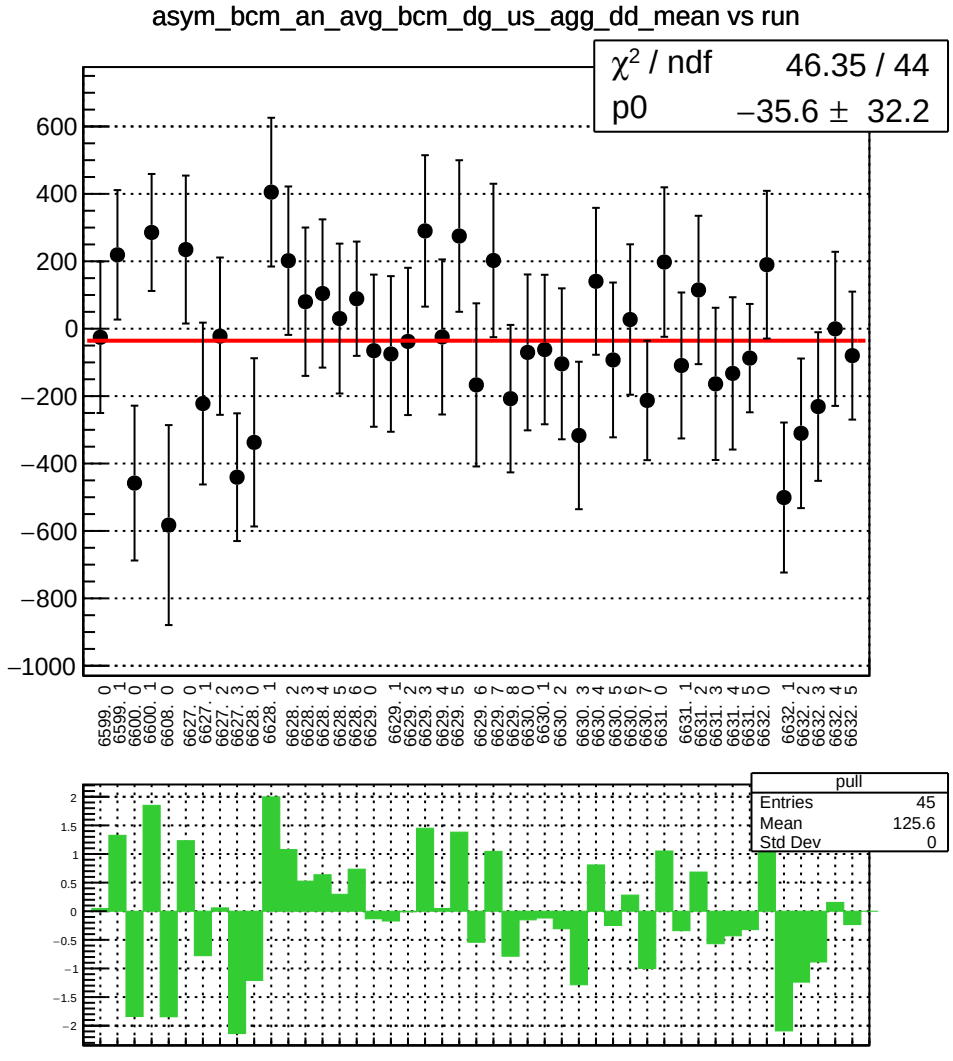

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 23.72 / 44
p0 173.1 ± 337.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 15.23
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.01417
Std Dev 0.726
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

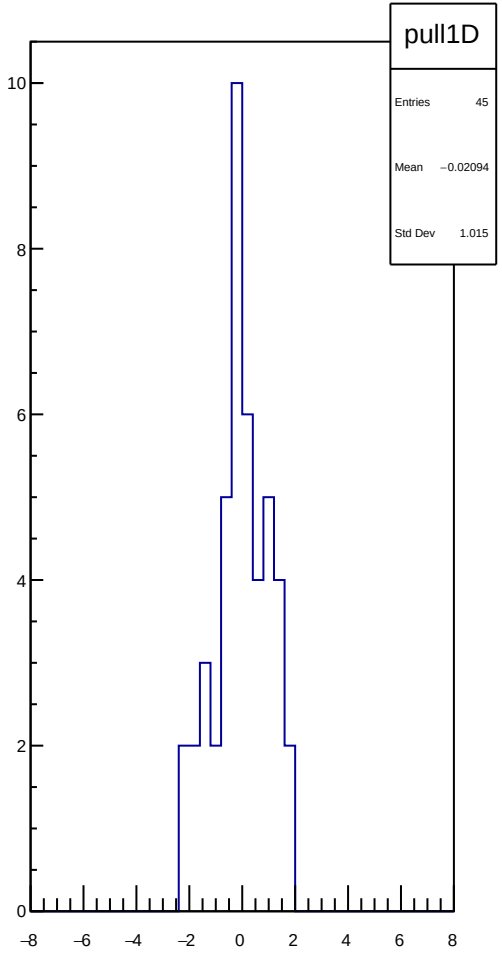

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.6e+04 / 44
p0 222 ± 0.2385
450
400
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

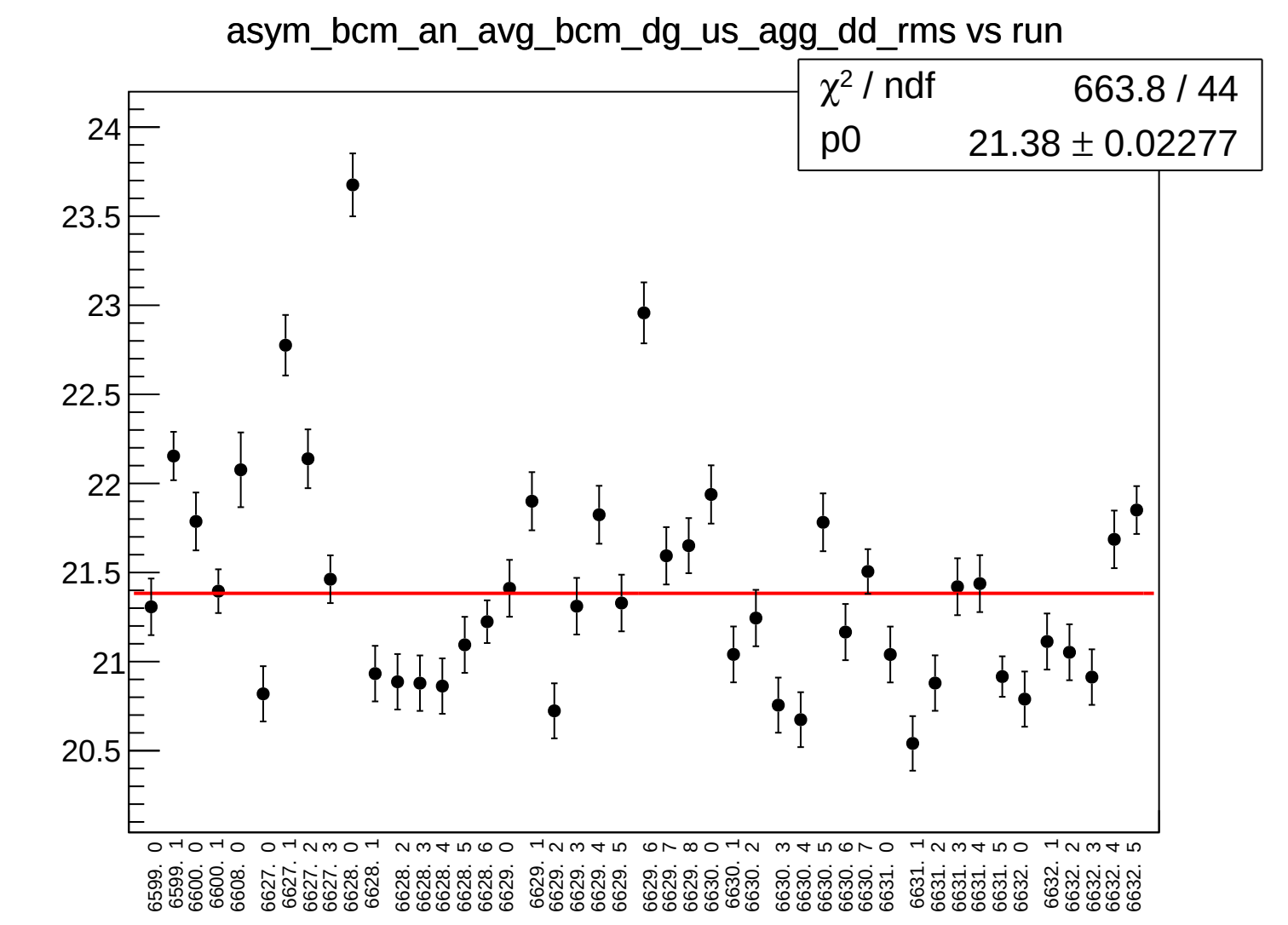

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 42.46 / 44
p0 −11.73 ± 24.22
400
200
0
−200
−400
−600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −17.62
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

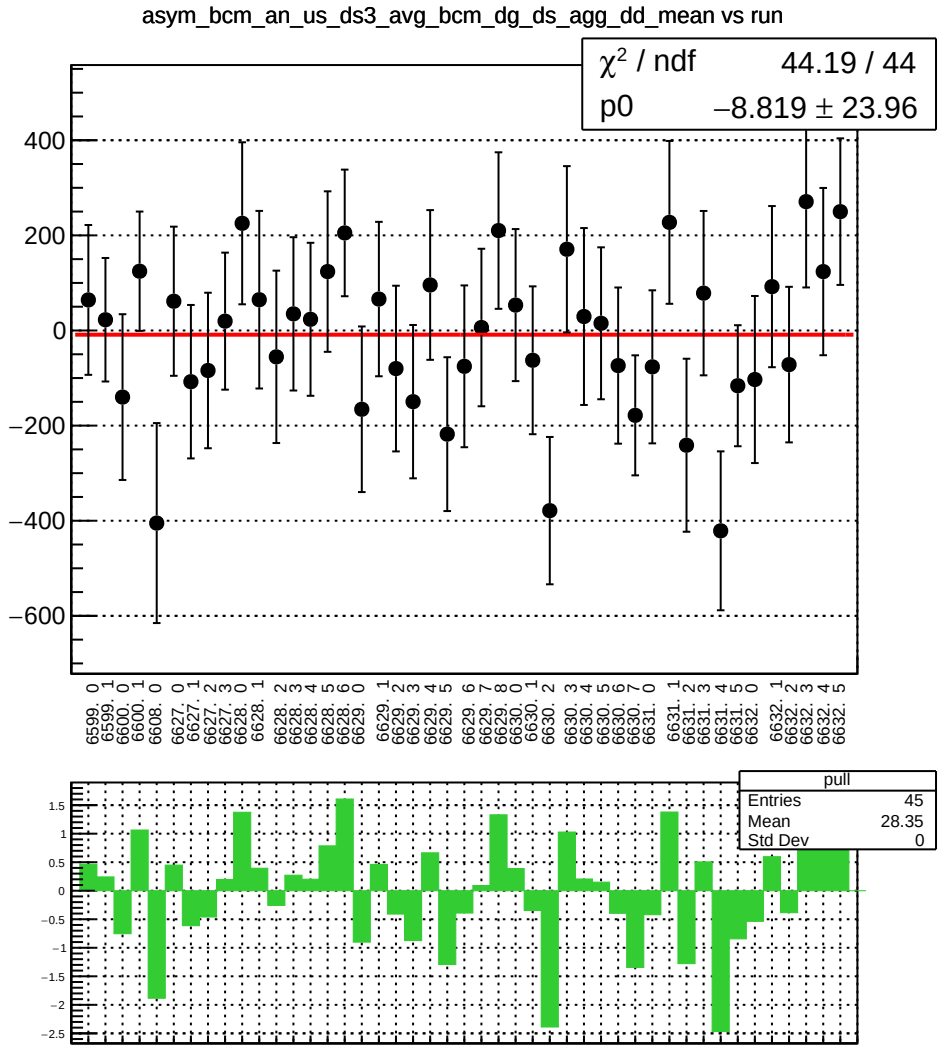

pull1D
Entries 45
Mean −0.007605
Std Dev 0.9713
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

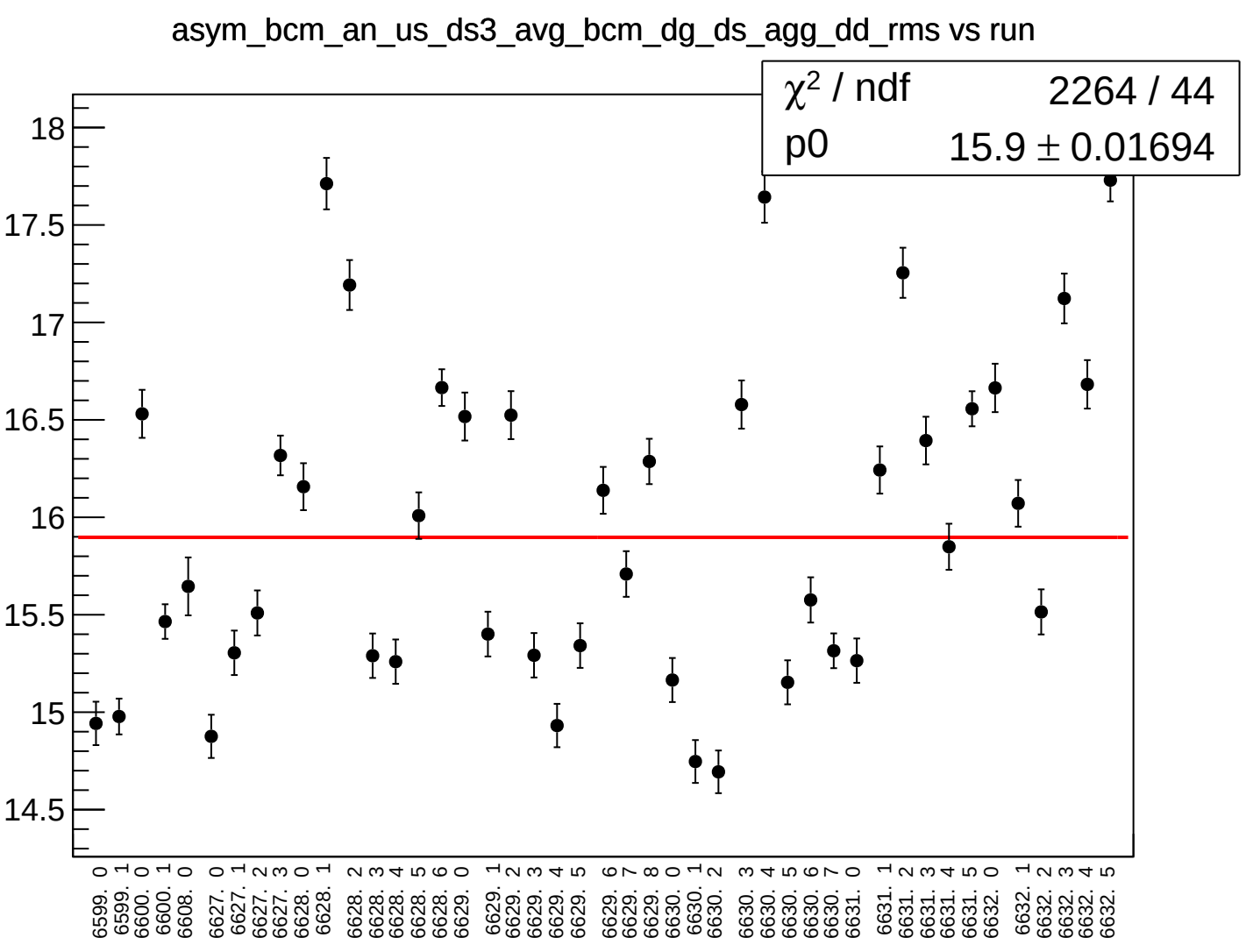

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2457 / 44
p0 16.06 ± 0.01712
18
17.5
17
16.5
16
15.5
15
14.5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

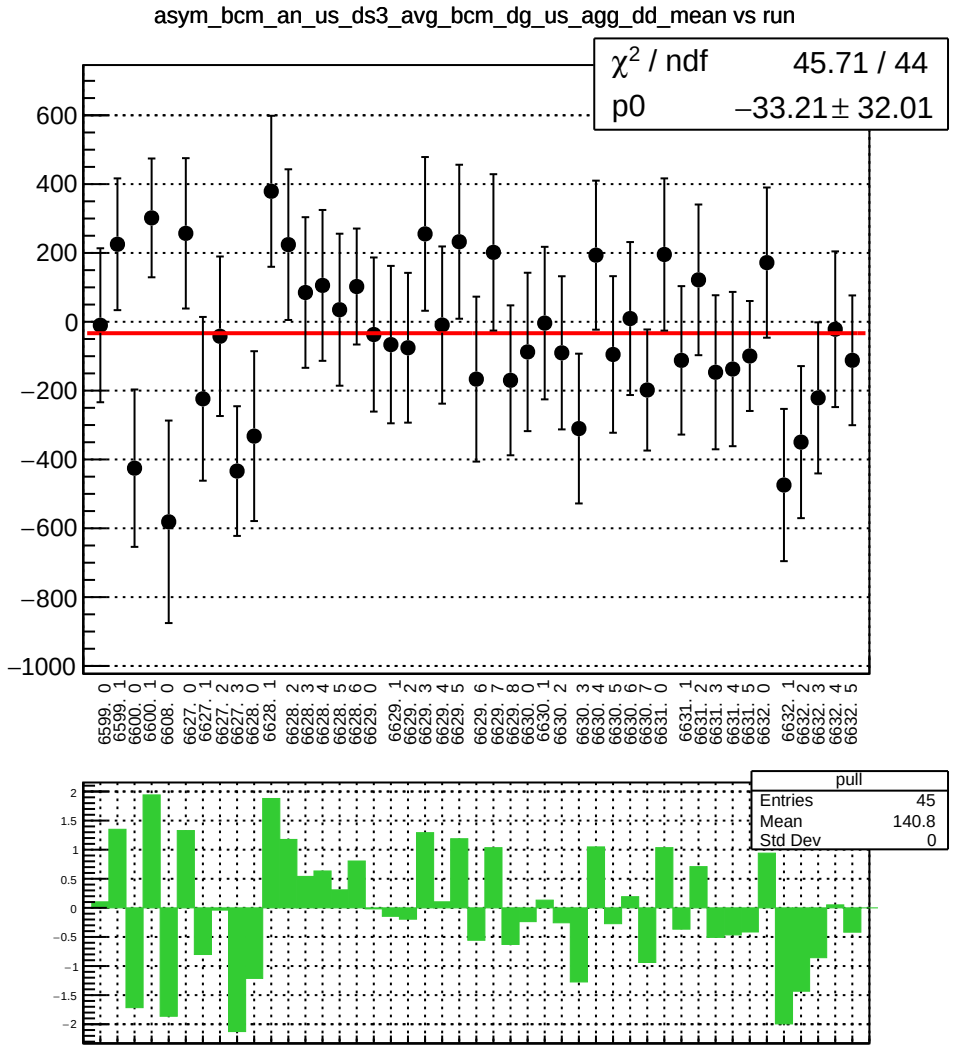

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 46.35 / 44
p0 −35.6 ± 32.2
pull
Entries 45
Mean 125.6
Std Dev 0

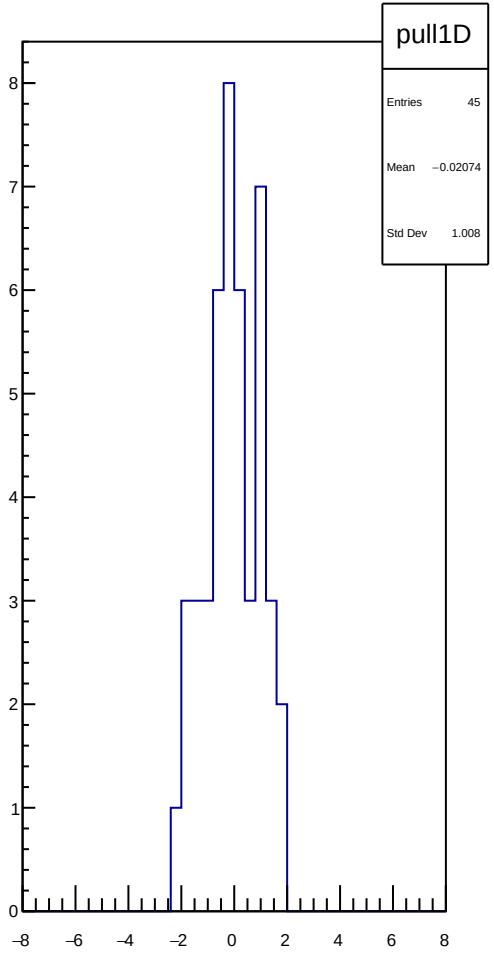

pull1D
Entries 45
Mean −0.02094
Std Dev 1.015

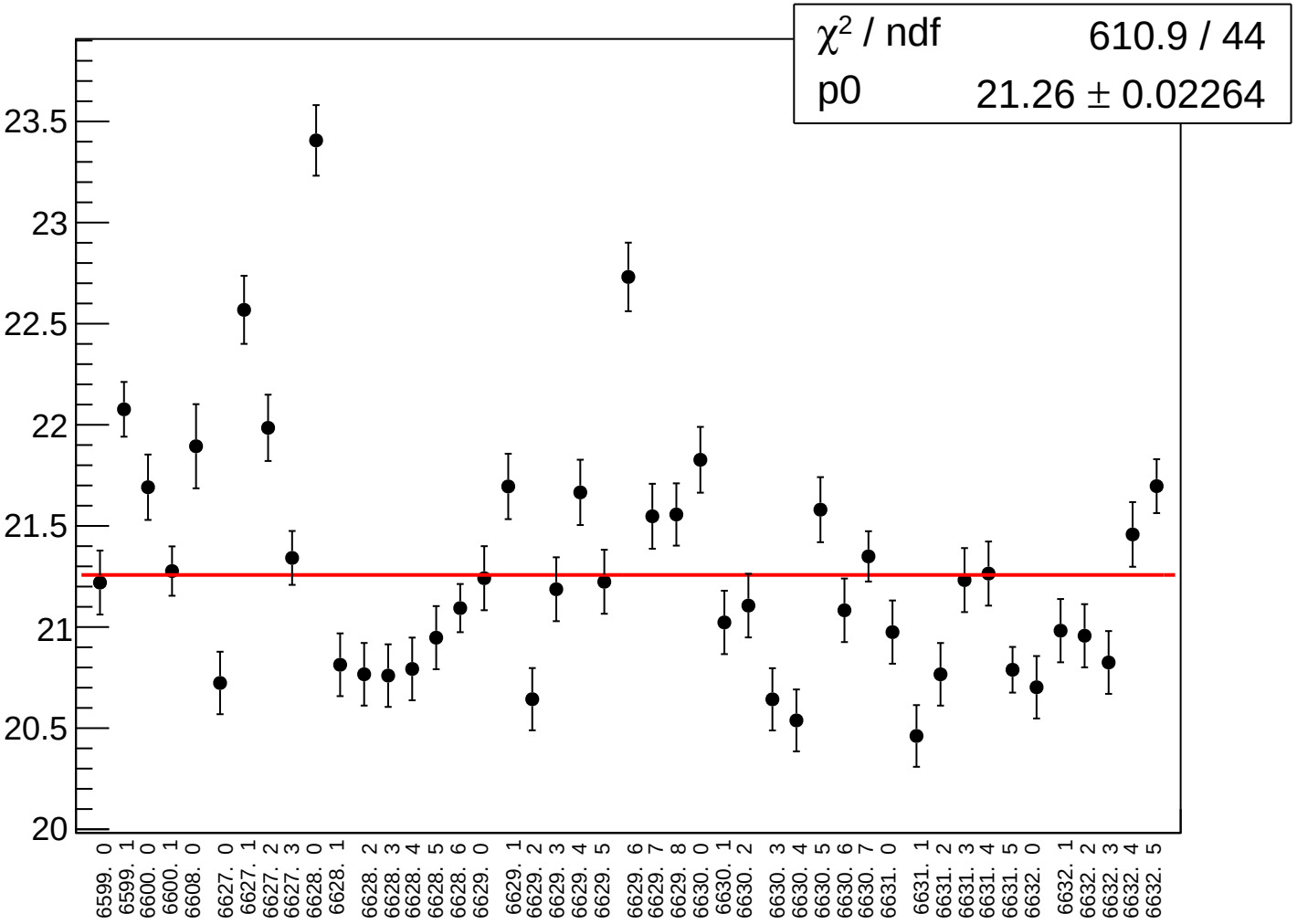

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 663.8 / 44
p0 21.38 ± 0.02277
24
23.5
23
22.5
22
21.5
21
20.5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

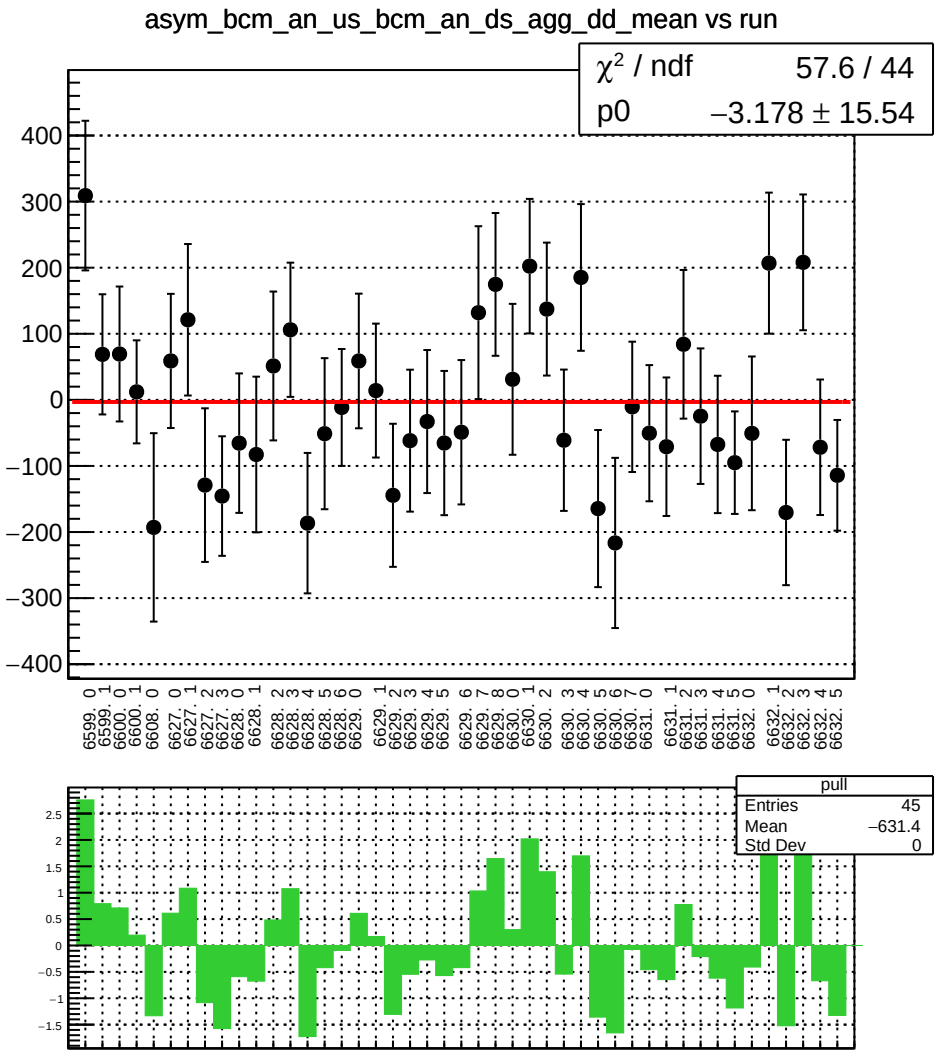

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 44.19 / 44
p0 −8.819 ± 23.96
400
200
0
−200
−400
−600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 28.35
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.009
Std Dev 0.9909
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

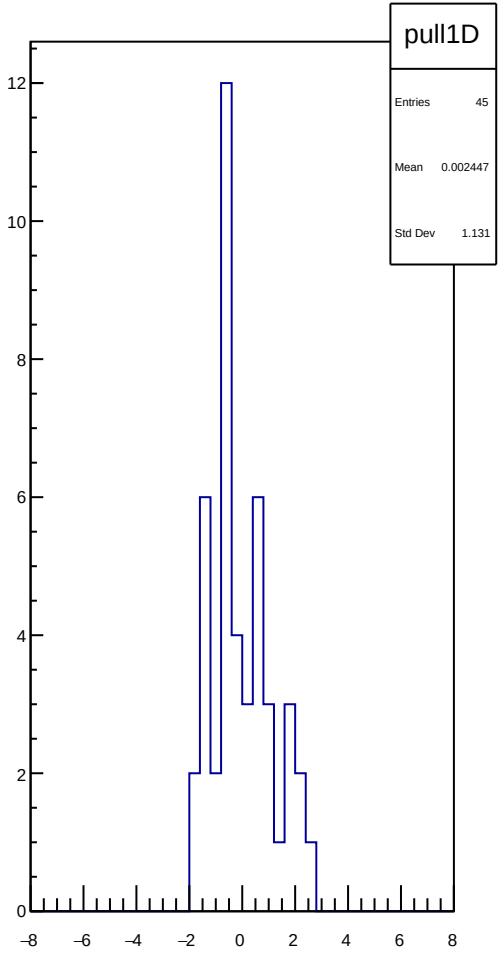

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2264 / 44
p0 15.9 ± 0.01694
18
17.5
17
16.5
16
15.5
15
14.5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

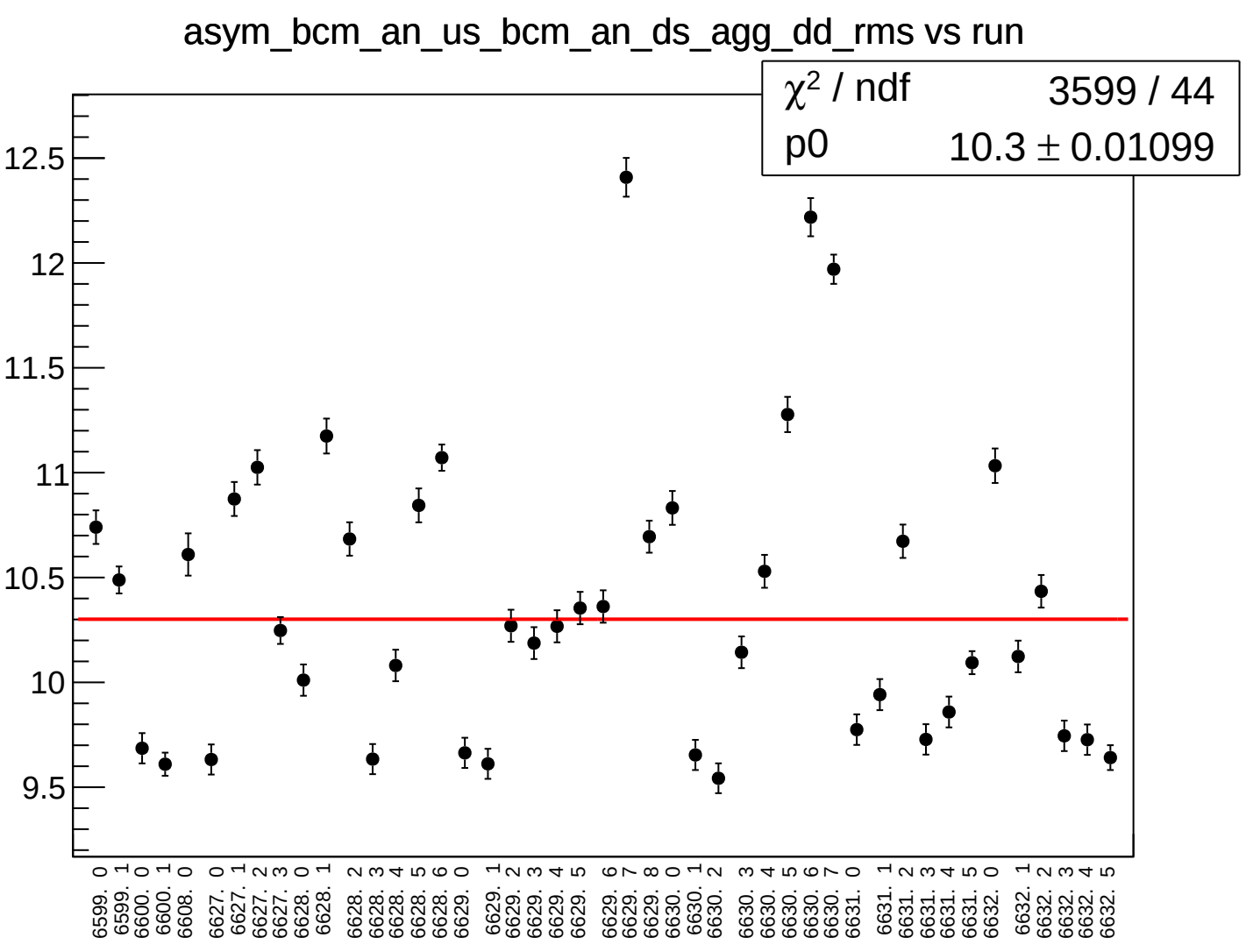

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 45.71 / 44
p0 −33.21 ± 32.01
pull
Entries 45
Mean 140.8
Std Dev 0

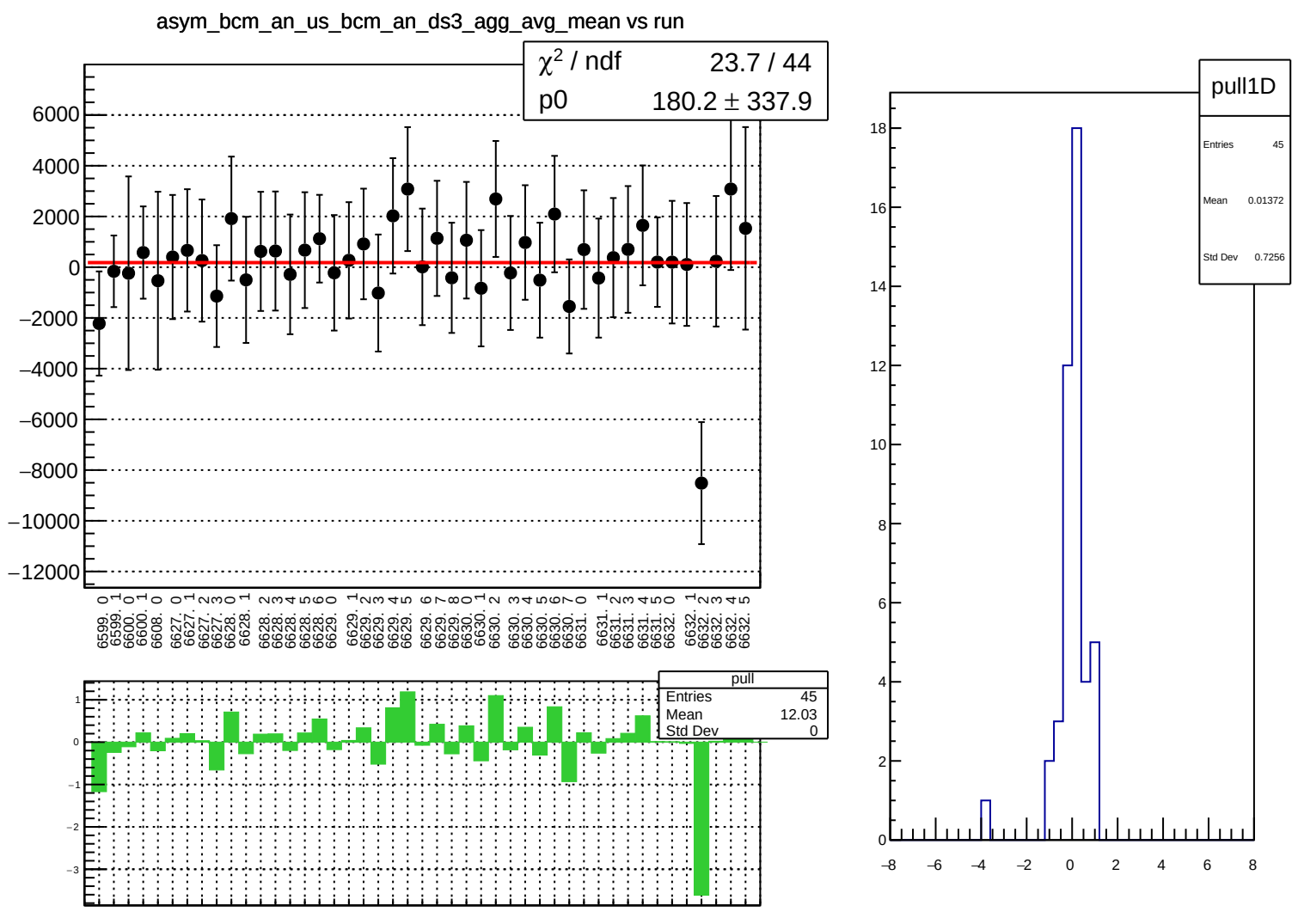

pull1D
Entries 45
Mean −0.02074
Std Dev 1.008

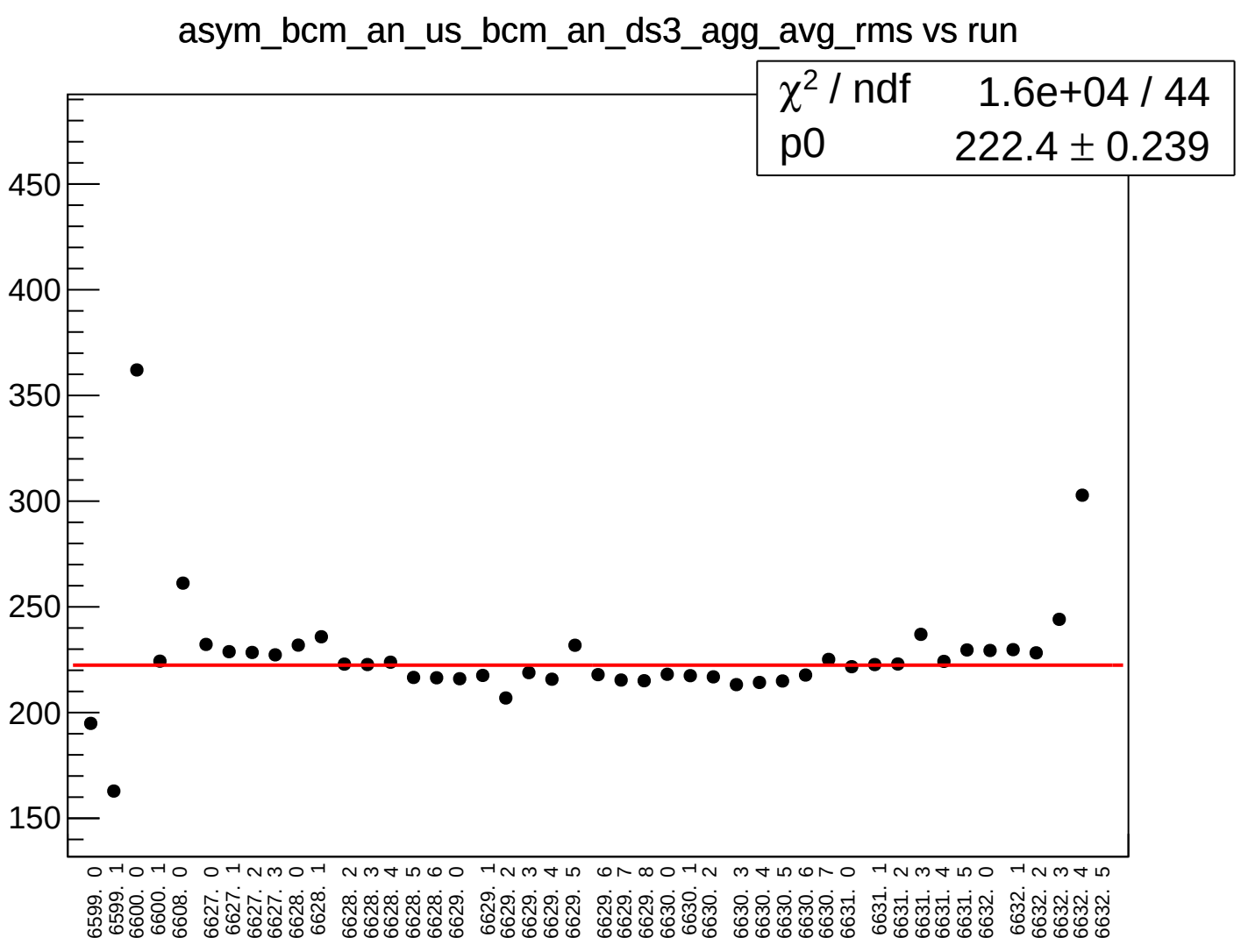

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 610.9 / 44
p0 21.26 ± 0.02264
23.5
23
22.5
22
21.5
21
20.5
20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

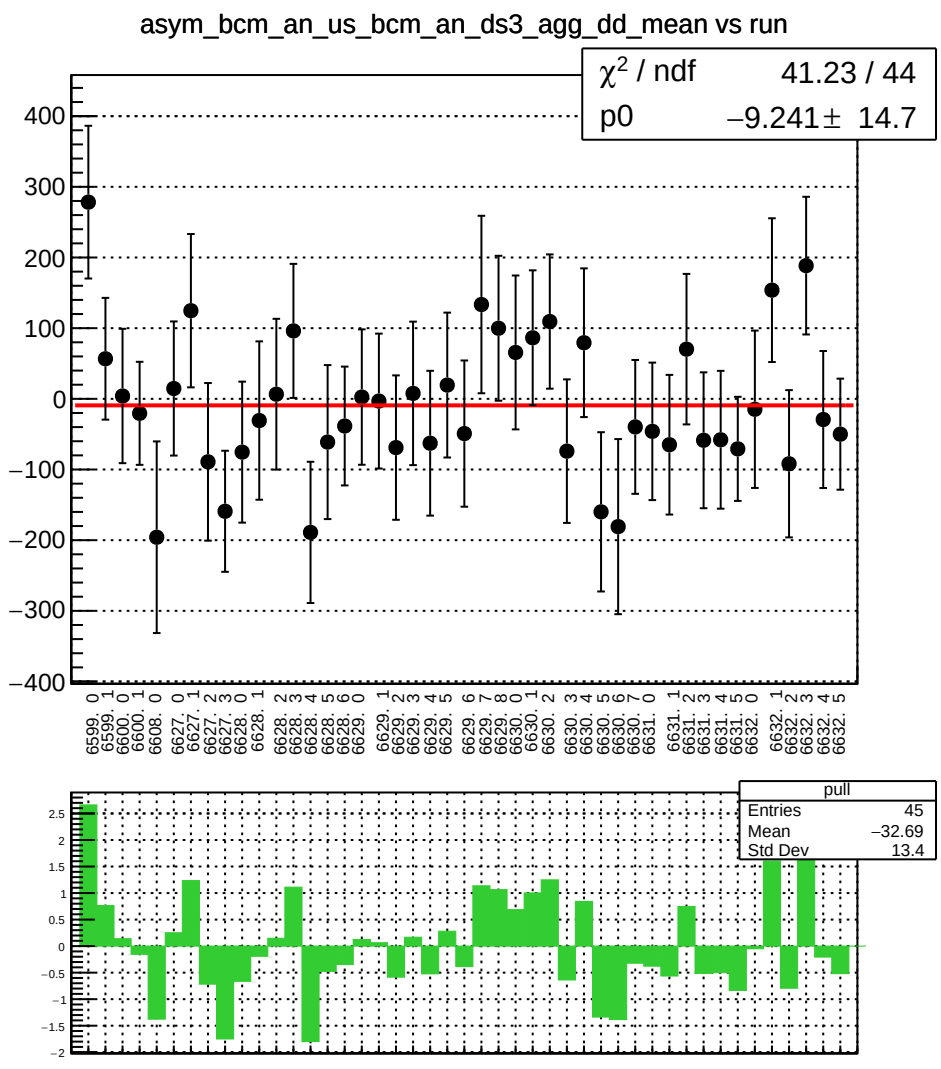

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 57.6 / 44
p0 −3.178 ± 15.54
pull
Entries 45
Mean −631.4
Std Dev 0

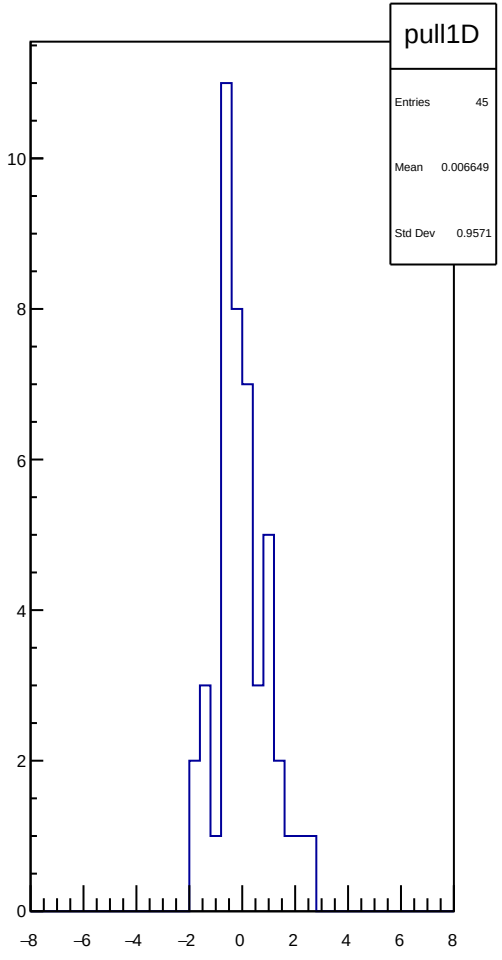

pull1D
Entries 45
Mean 0.002447
Std Dev 1.131

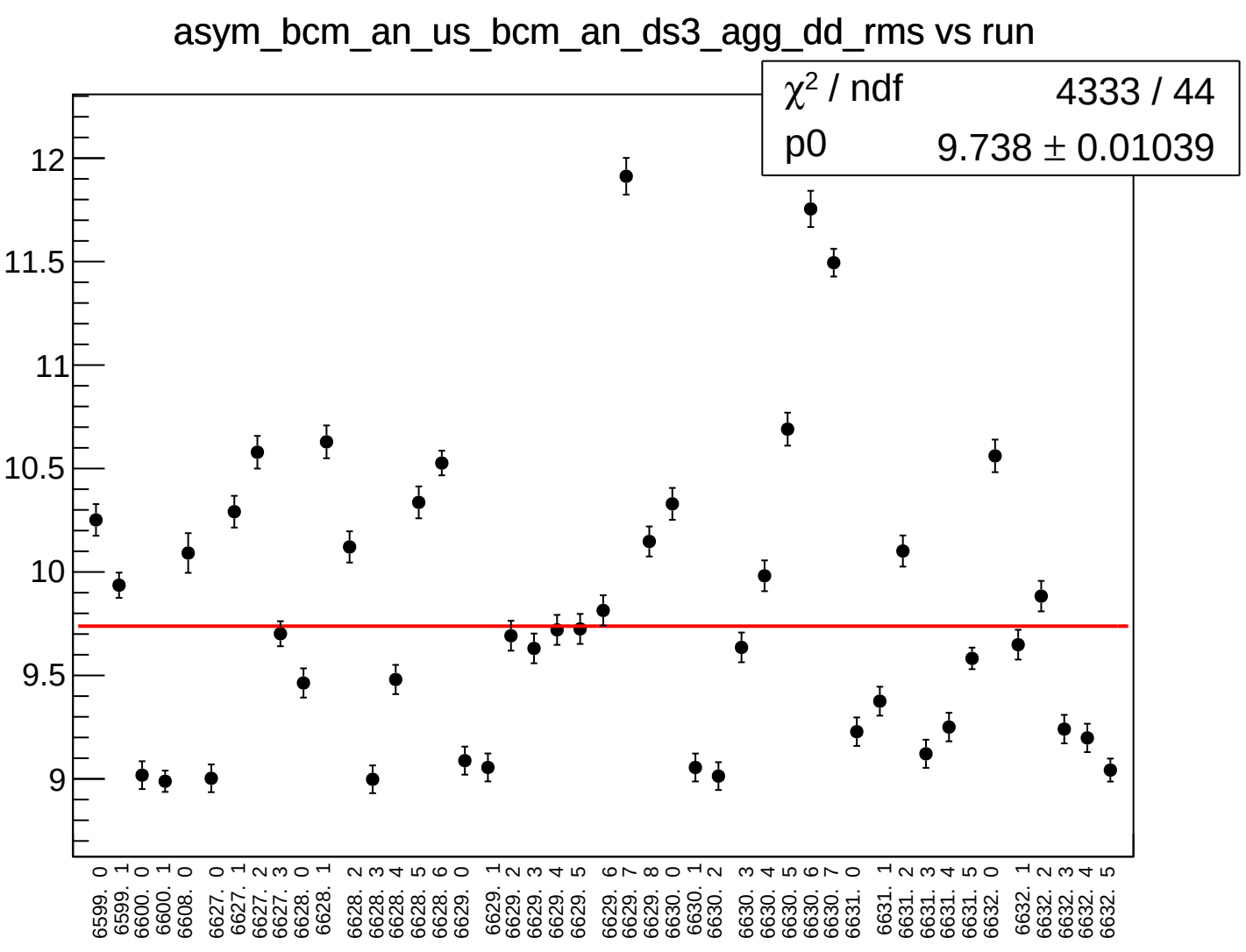

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3599 / 44
p0 10.3 ± 0.01099
12.5
12
11.5
11
10.5
10
9.5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

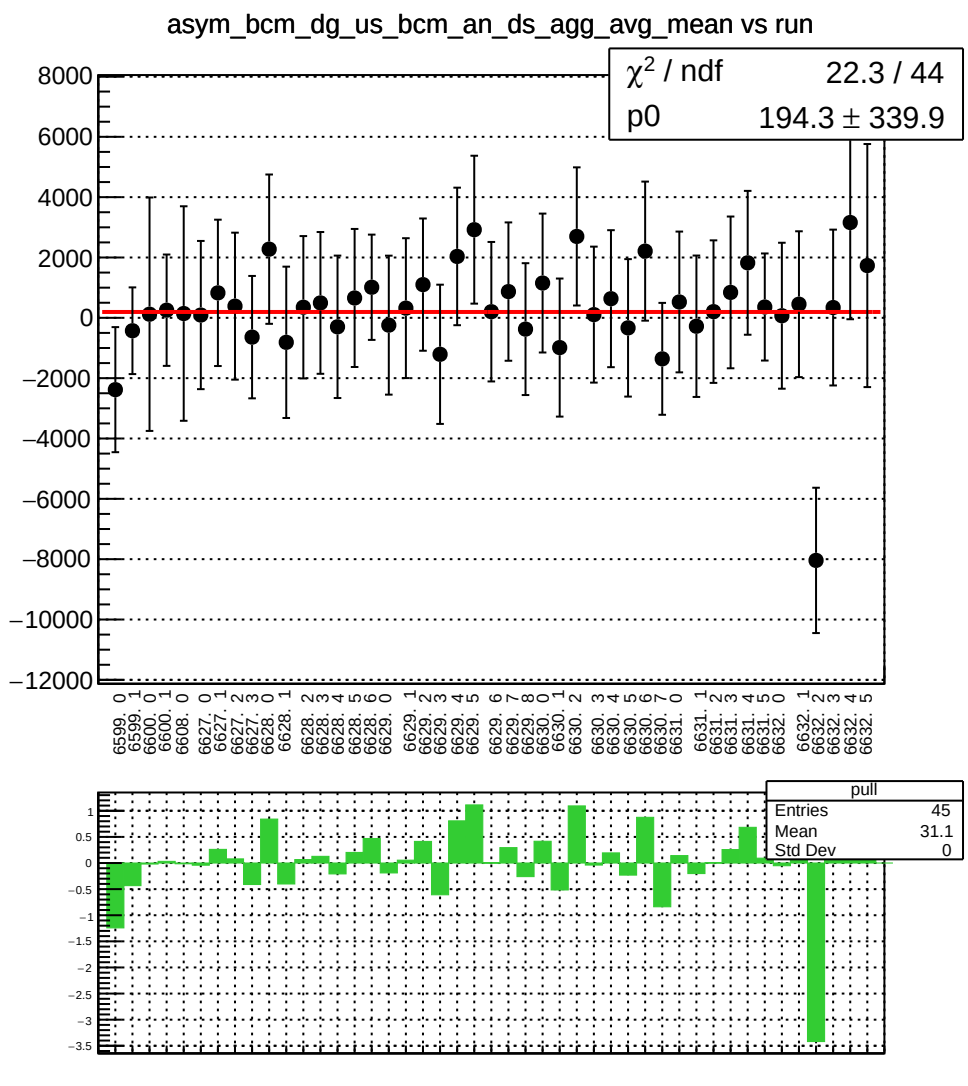

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 23.7 / 44
p0 180.2 ± 337.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 12.03
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.01372
Std Dev 0.7256
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

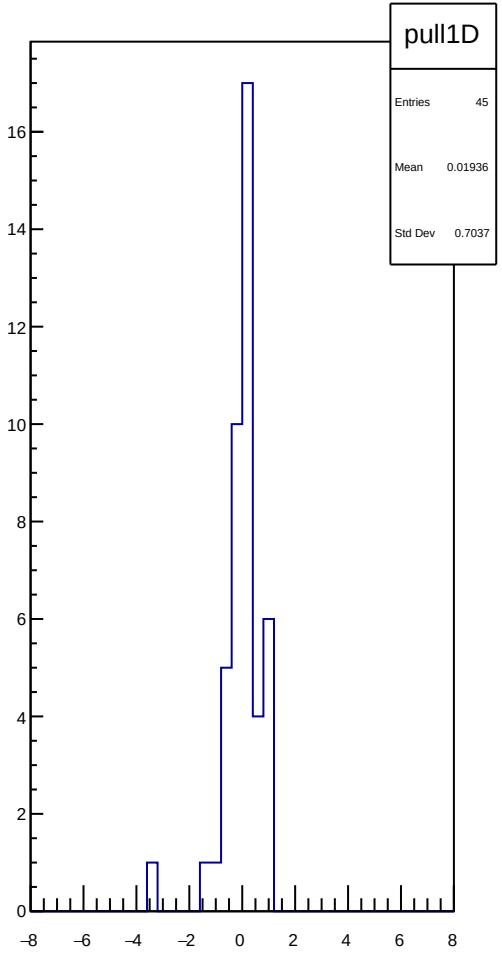

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 1.6e+04 / 44
p0 222.4 ± 0.239
450
400
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

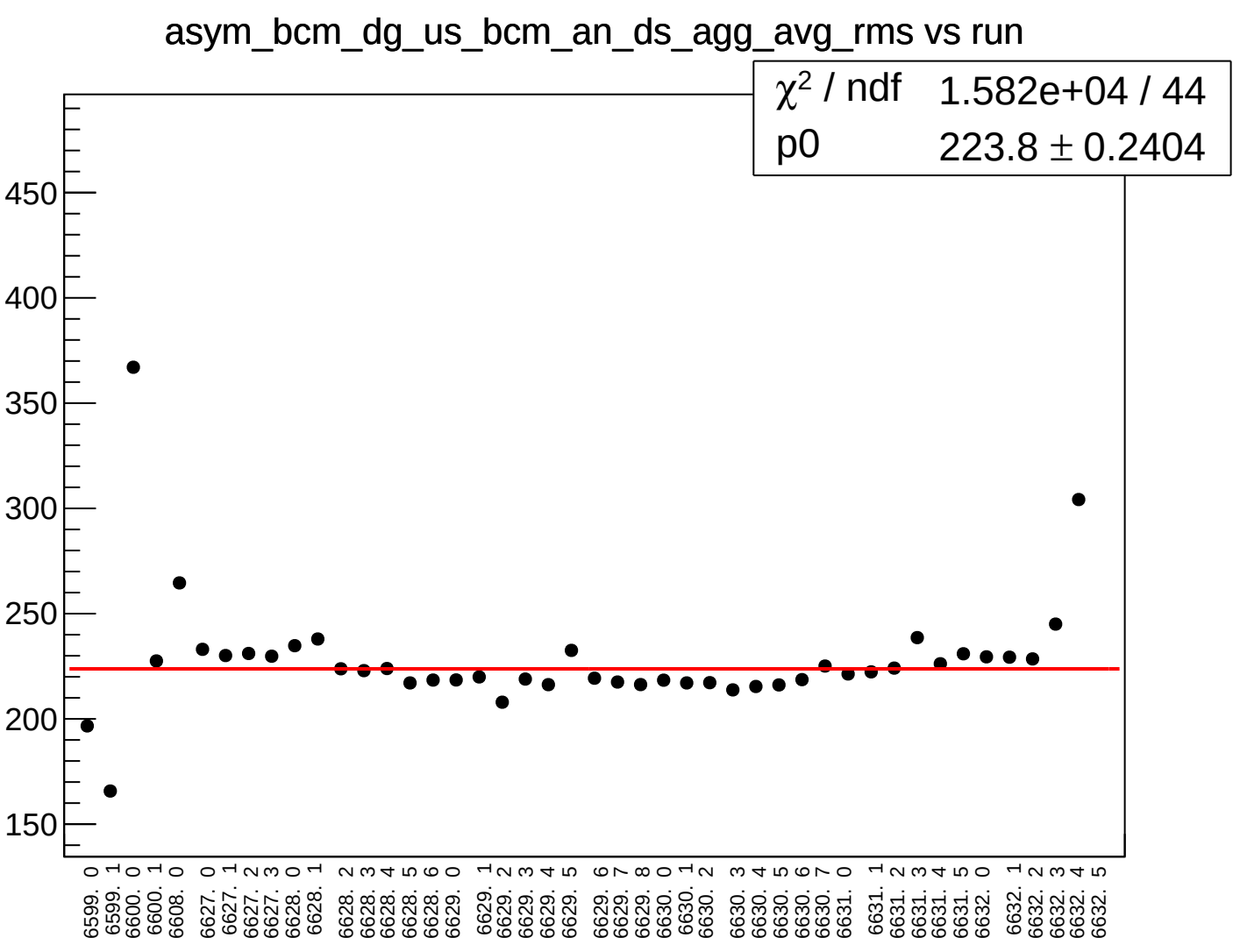

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 41.23 / 44
p0 −9.241 ± 14.7
pull
Entries 45
Mean −32.69
Std Dev 13.4


pull1D
Entries 45
Mean 0.006649
Std Dev 0.9571


asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 4333 / 44
p0 9.738 ± 0.01039
12
11.5
11
10.5
10
9.5
9
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 22.3 / 44
p0 194.3 ± 339.9
pull
Entries 45
Mean 31.1
Std Dev 0


pull1D
Entries 45
Mean 0.01936
Std Dev 0.7037


asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.582e+04 / 44
p0 223.8 ± 0.2404
450
400
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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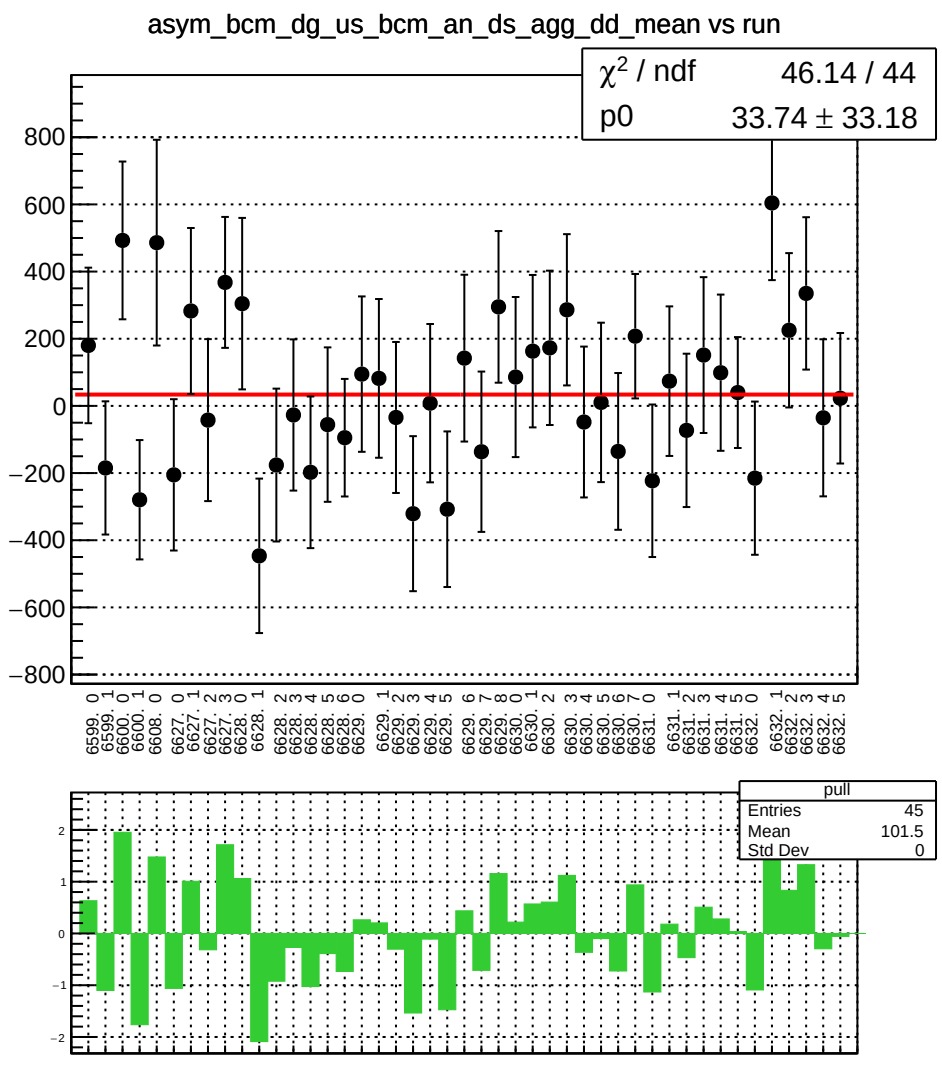
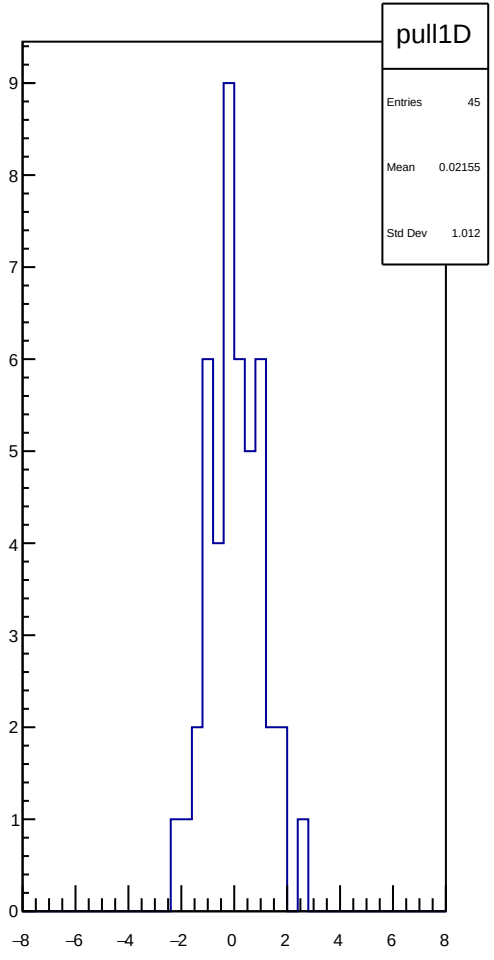
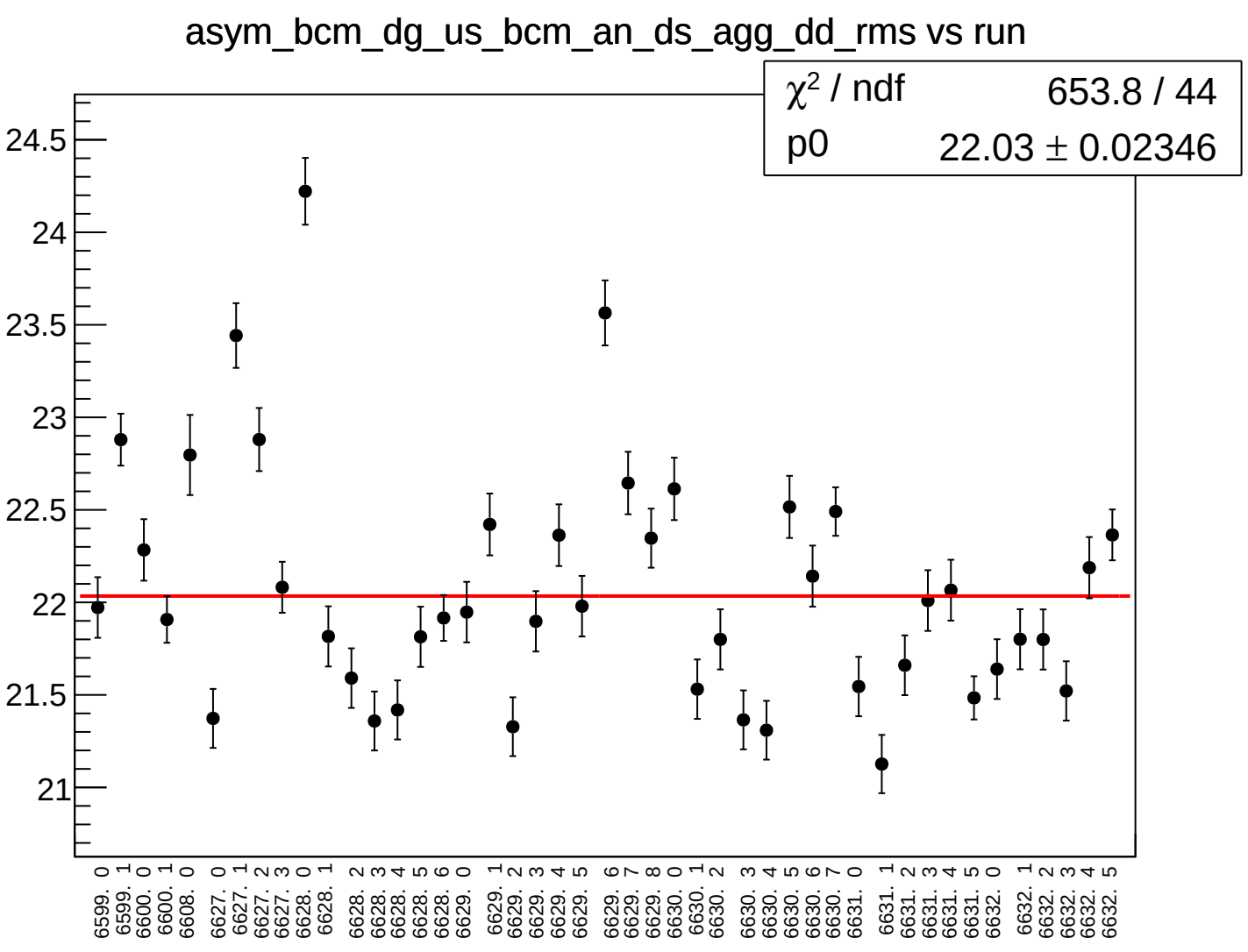
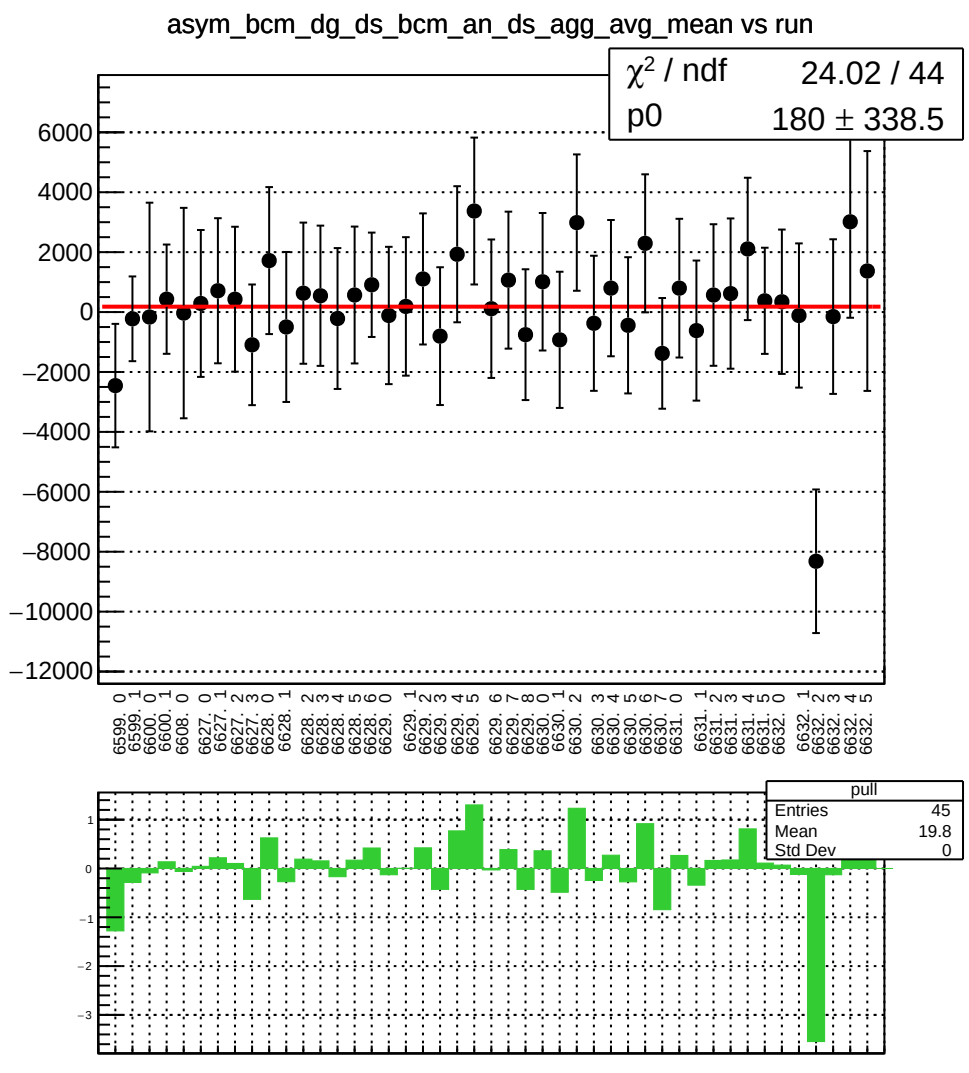
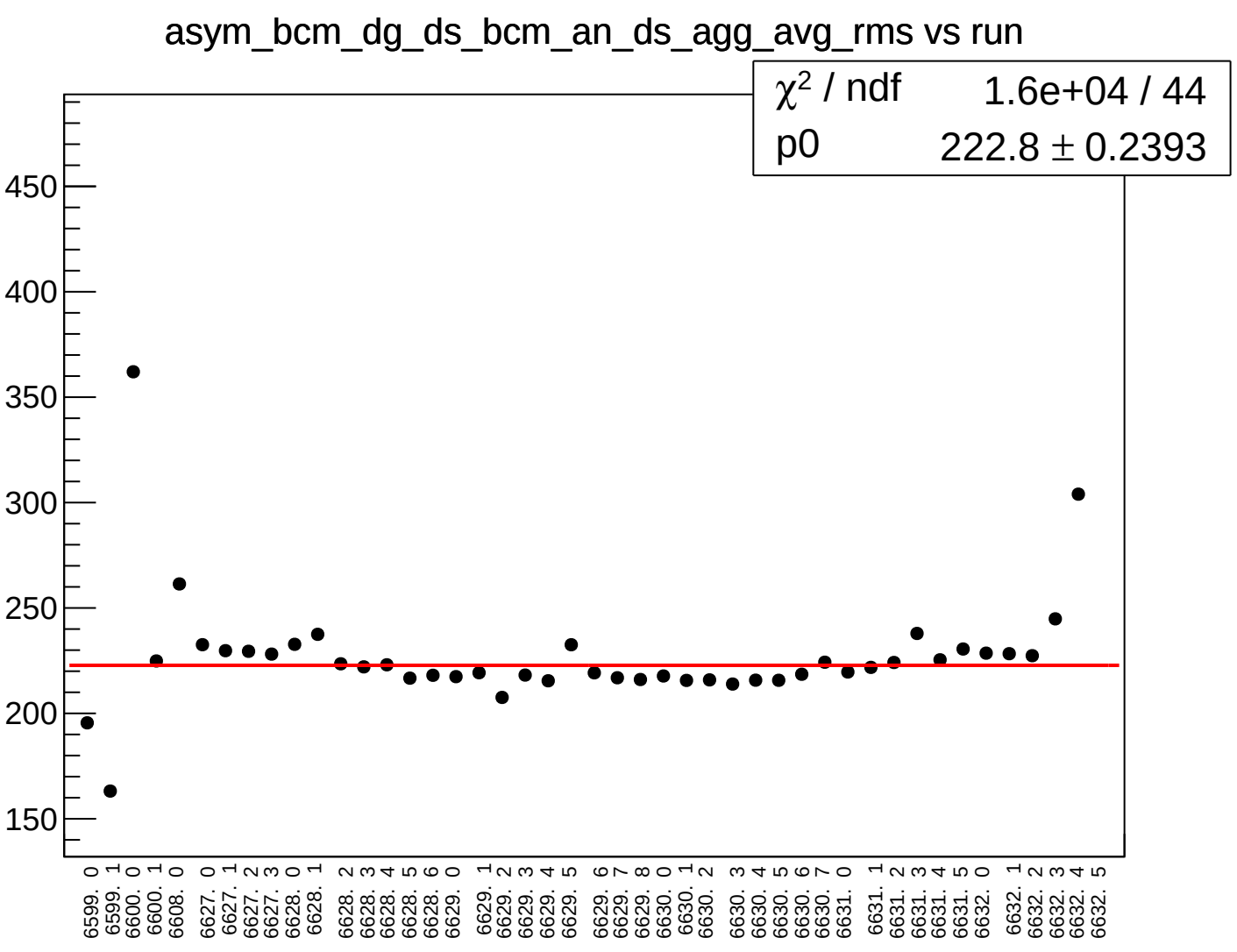
6632. 2
6632. 3
6632. 4
6632. 5

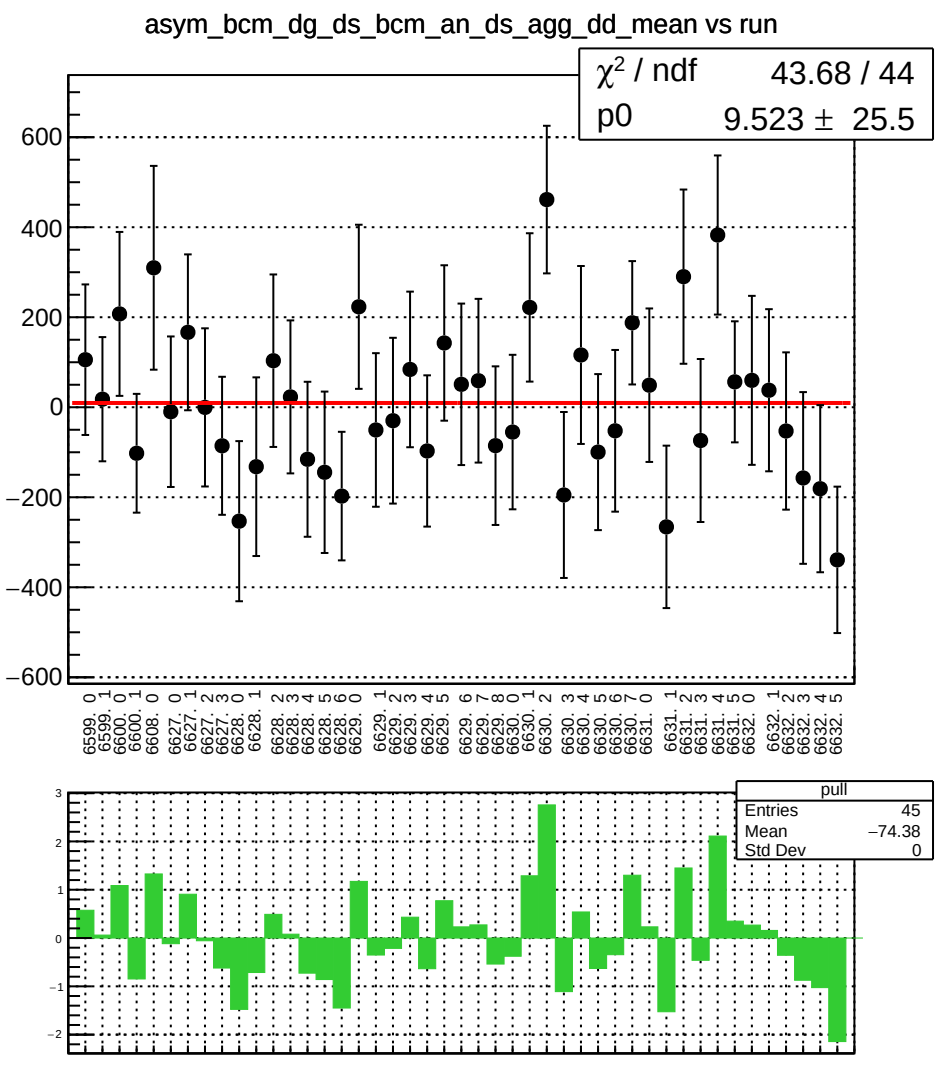

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 46.14 / 44
p0 33.74 ± 33.18
800
600
400
200
0
−200
−400
−600
−800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 101.5
Std Dev 0
2
1
0
−1
−2

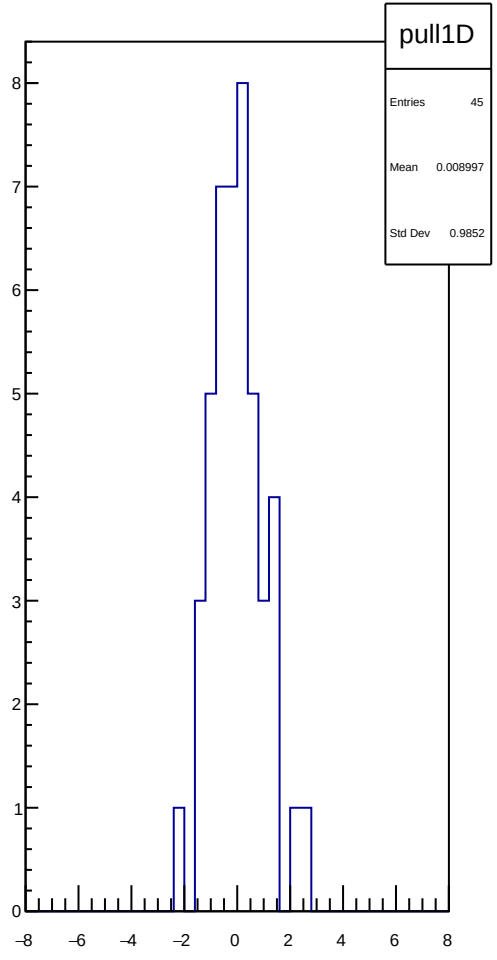

pull1D
Entries 45
Mean 0.02155
Std Dev 1.012
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

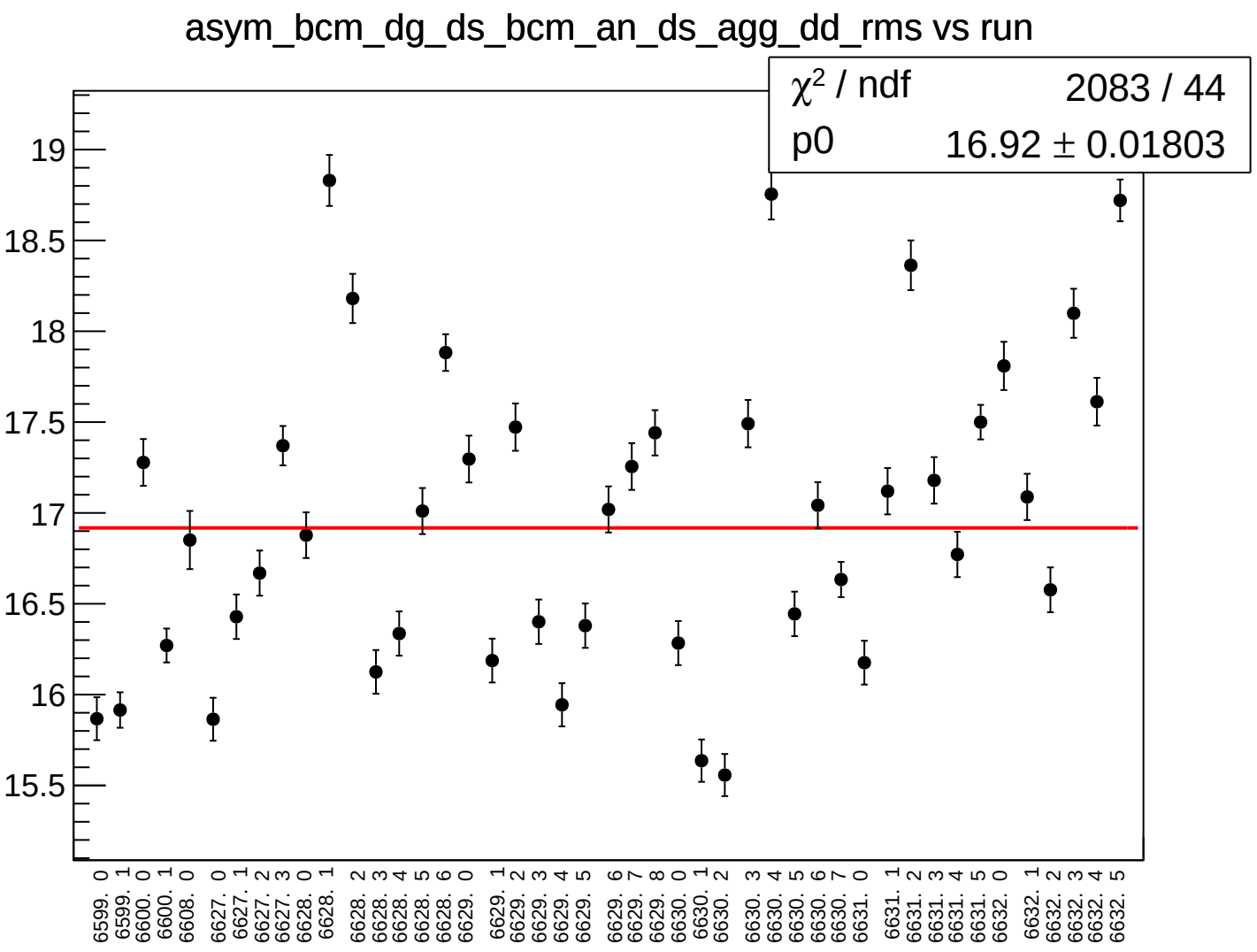

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 653.8 / 44
p0 22.03 ± 0.02346
24.5
24
23.5
23
22.5
22
21.5
21
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

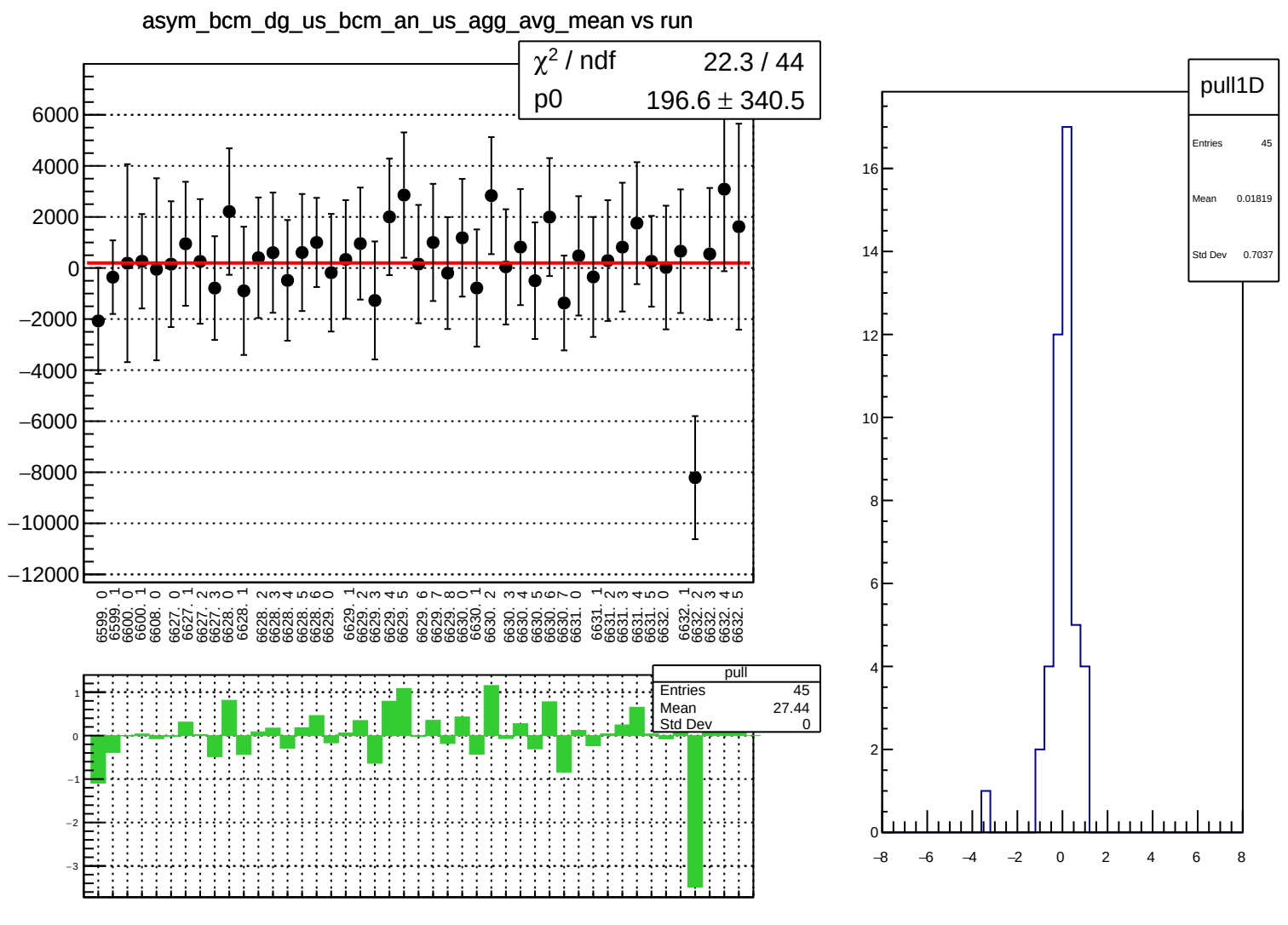

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 24.02 / 44
p0 180 ± 338.5
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 19.8
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.01619
Std Dev 0.7304
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

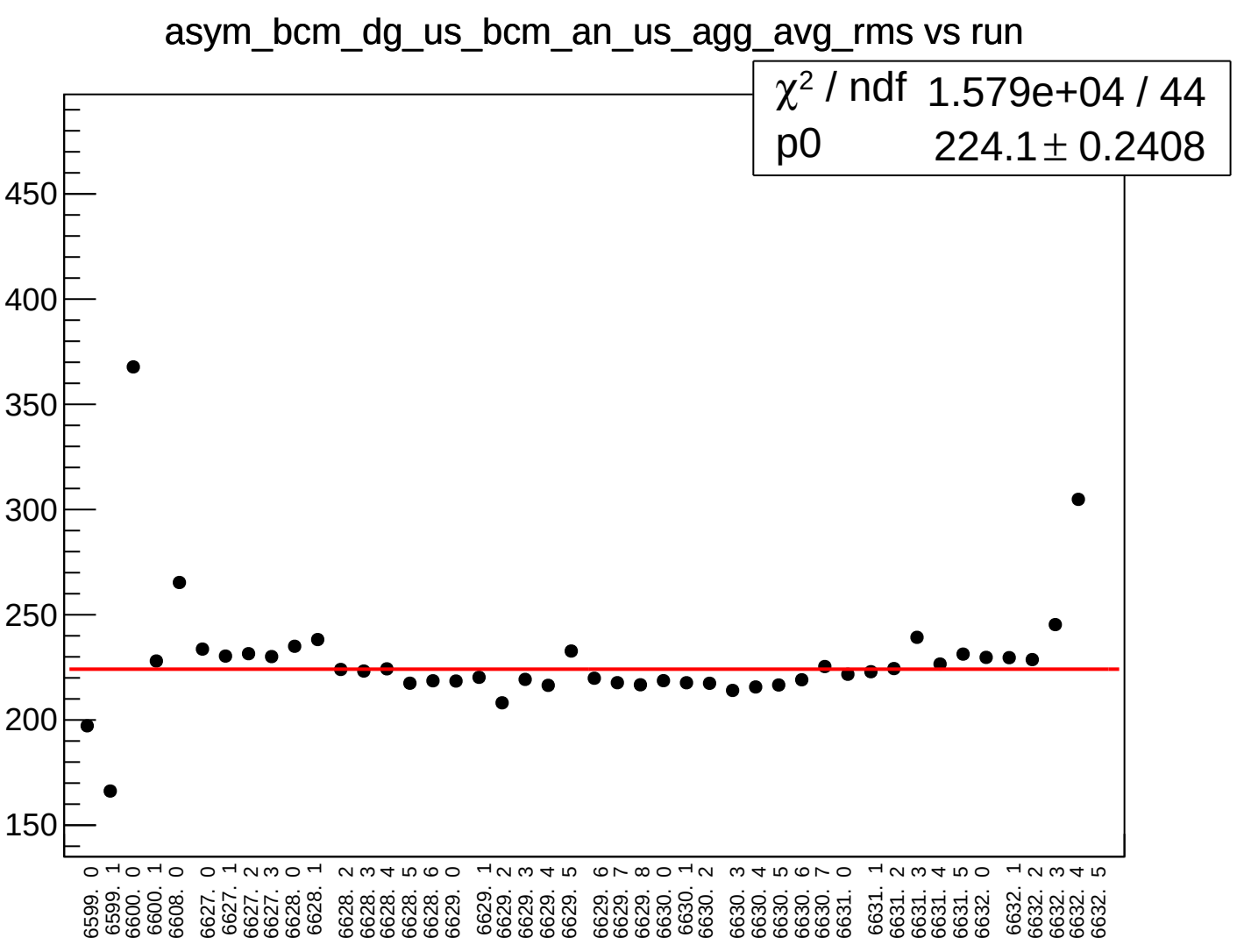

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.6e+04 / 44
p0 222.8 ± 0.2393
450
400
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 43.68 / 44
p0 9.523 ± 25.5
600
400
200
0
−200
−400
−600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −74.38
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.008997
Std Dev 0.9852
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2083 / 44
p0 16.92 ± 0.01803
19
18.5
18
17.5
17
16.5
16
15.5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 22.3 / 44
p0 196.6 ± 340.5
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 27.44
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.01819
Std Dev 0.7037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.579e+04 / 44
p0 224.1 ± 0.2408
450
400
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
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6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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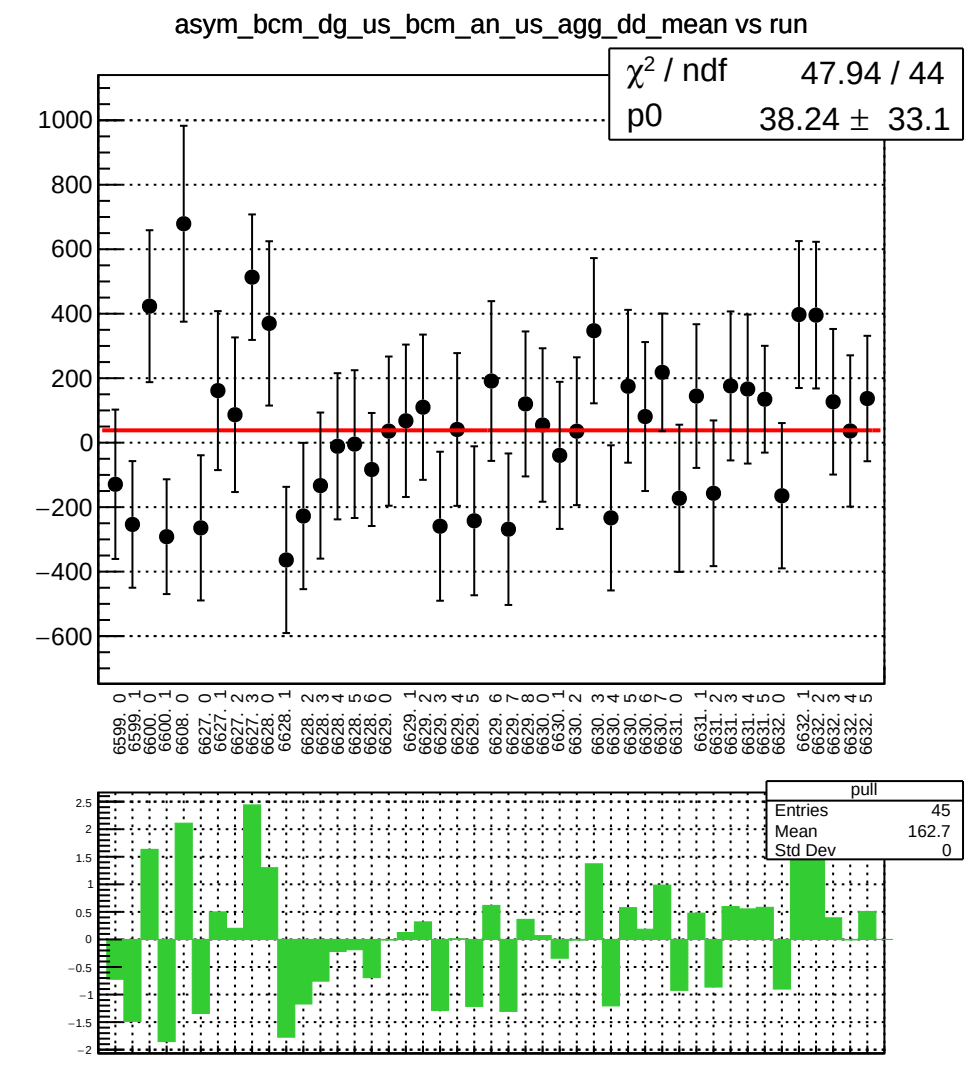
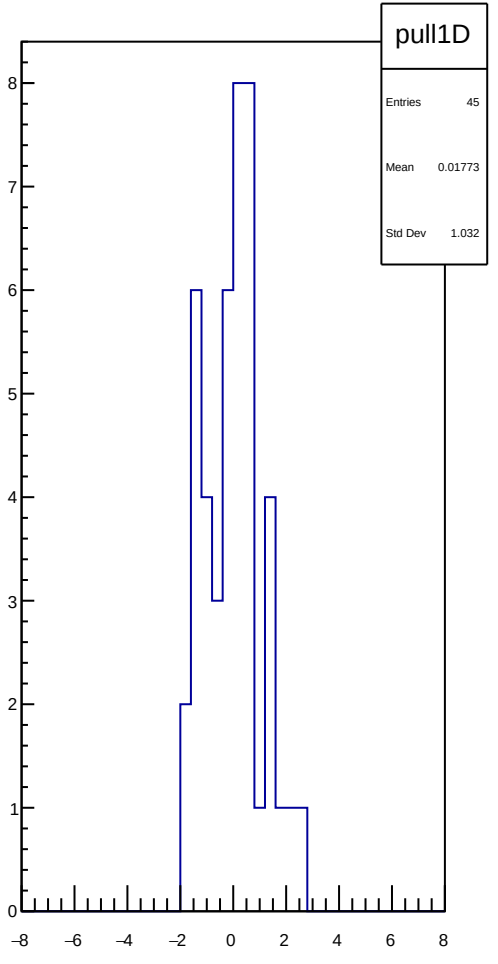
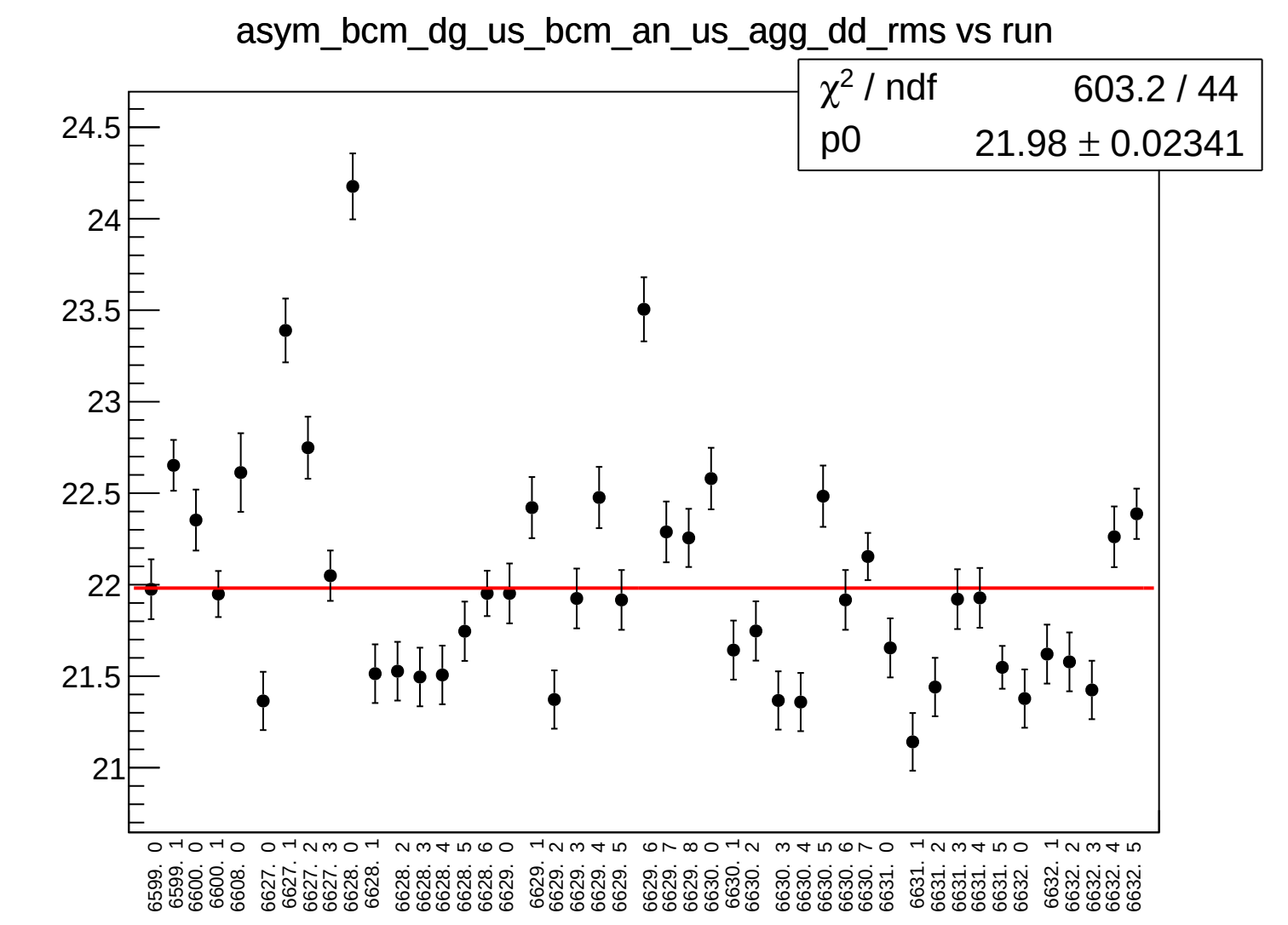
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 47.94 / 44
p0 38.24 ± 33.1
pull
Entries 45
Mean 162.7
Std Dev 0


pull1D
Entries 45
Mean 0.01773
Std Dev 1.032


asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 603.2 / 44
p0 21.98 ± 0.02341
24.5
24
23.5
23
22.5
22
21.5
21
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
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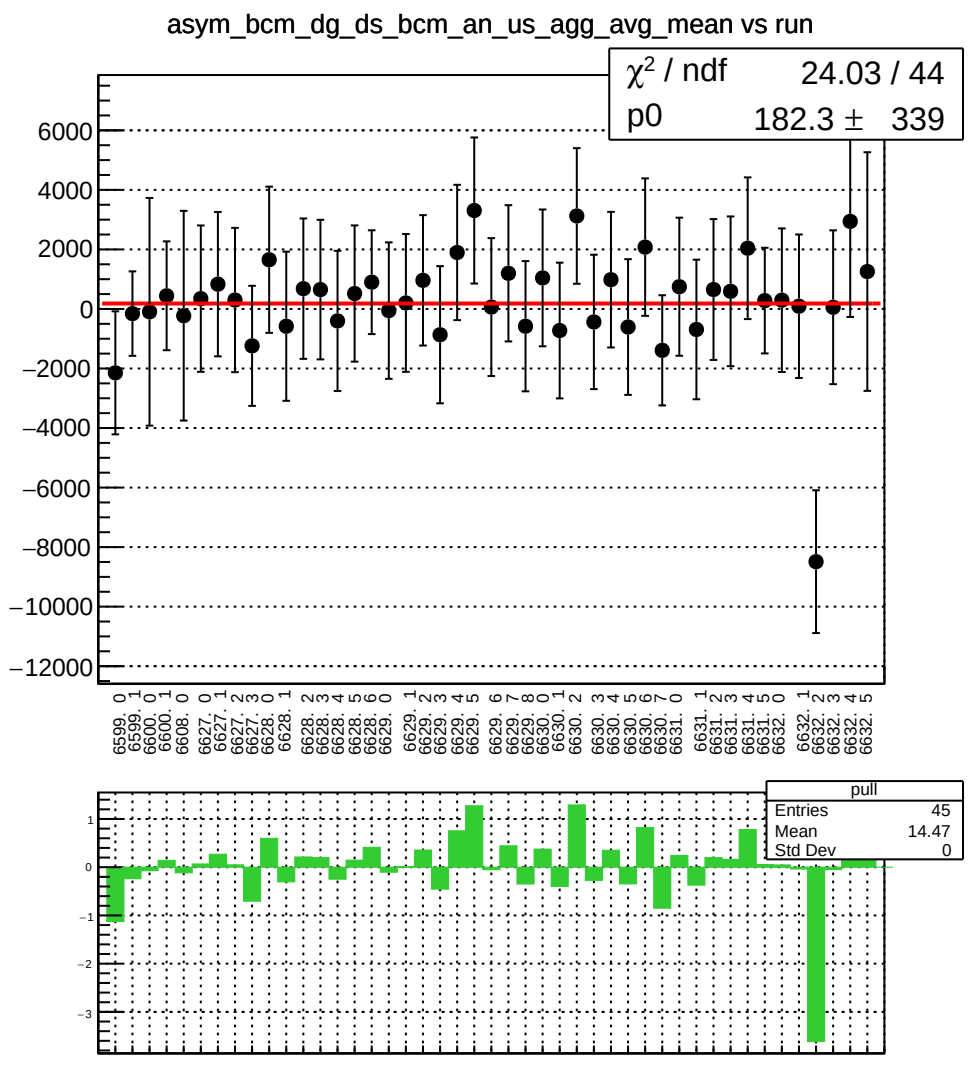
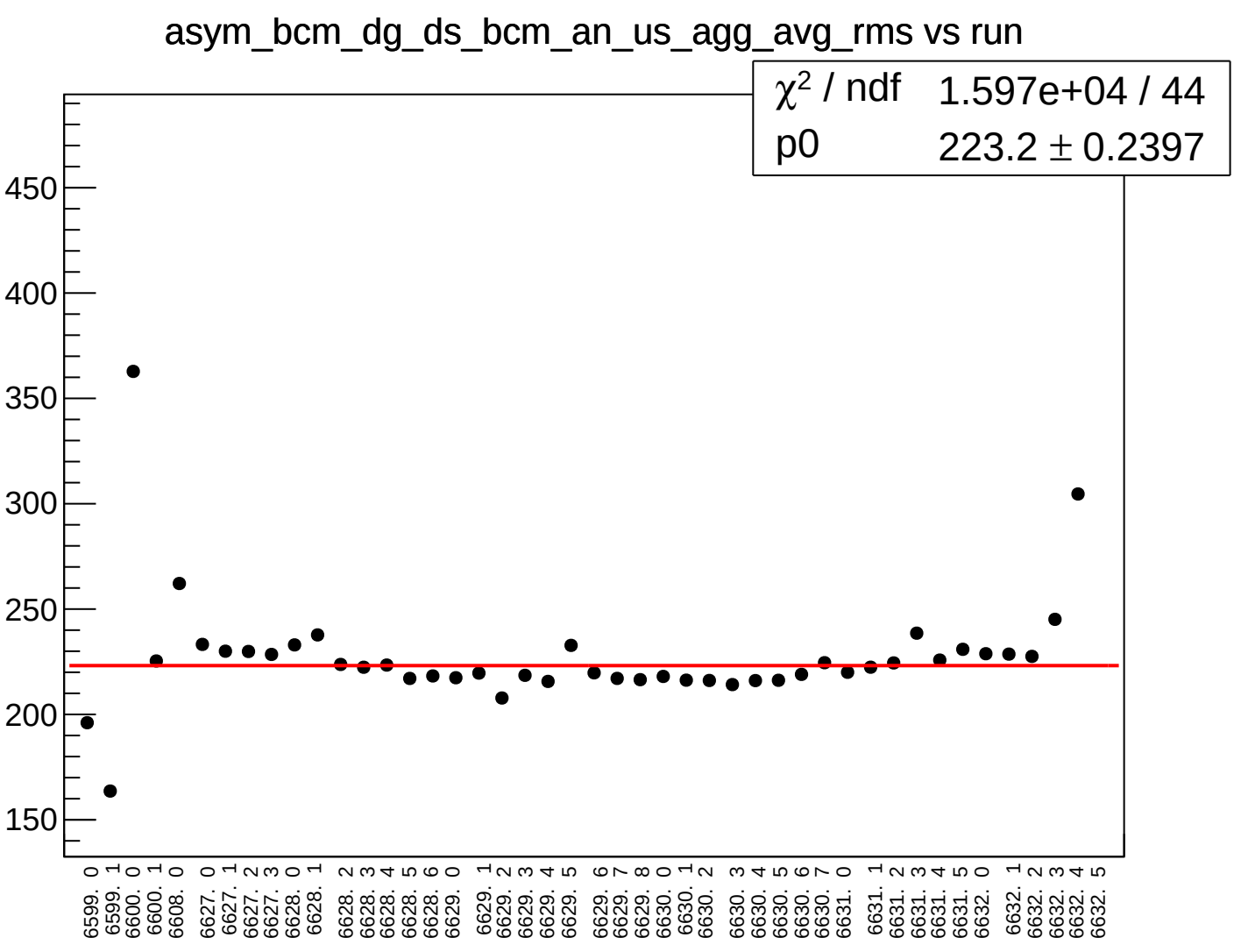
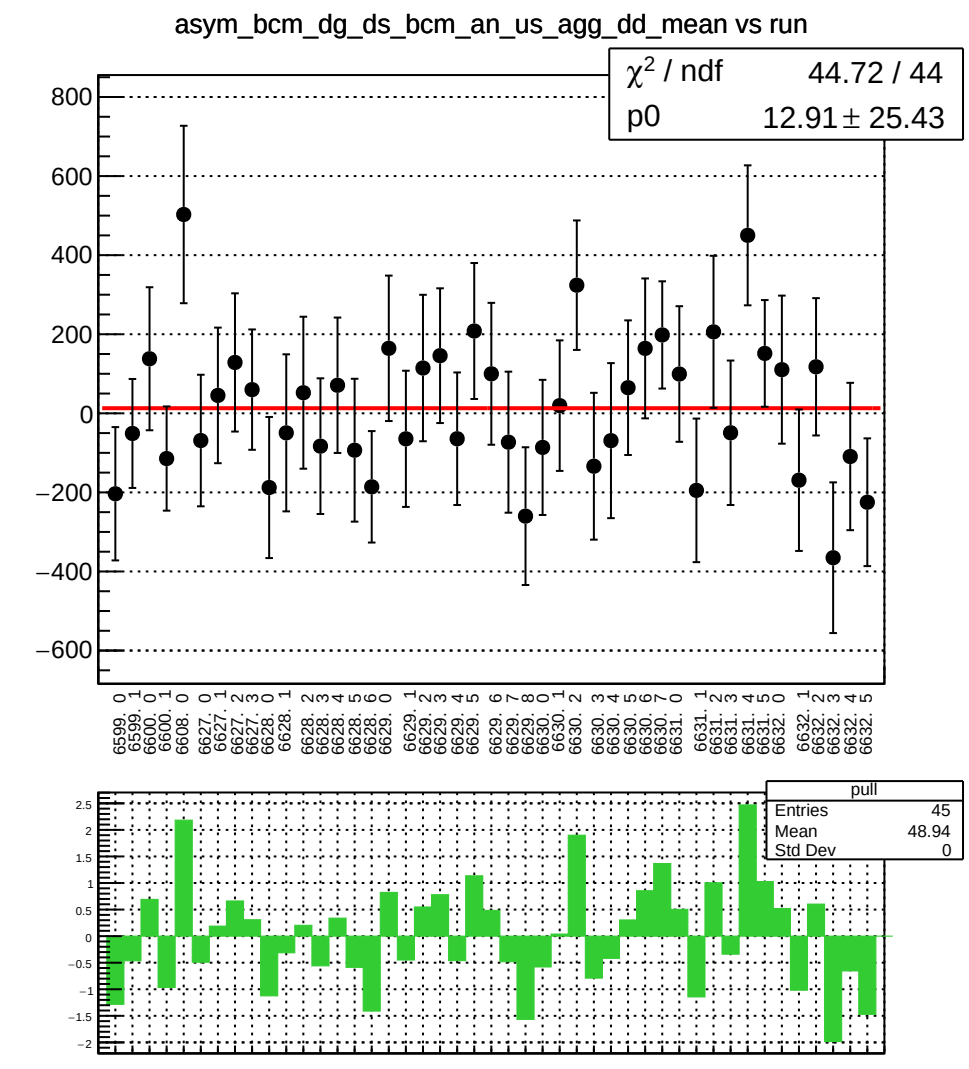
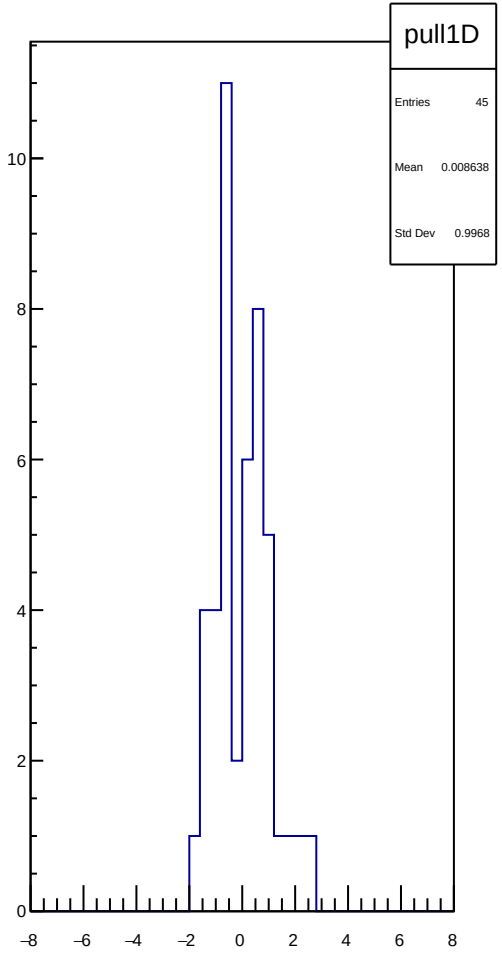
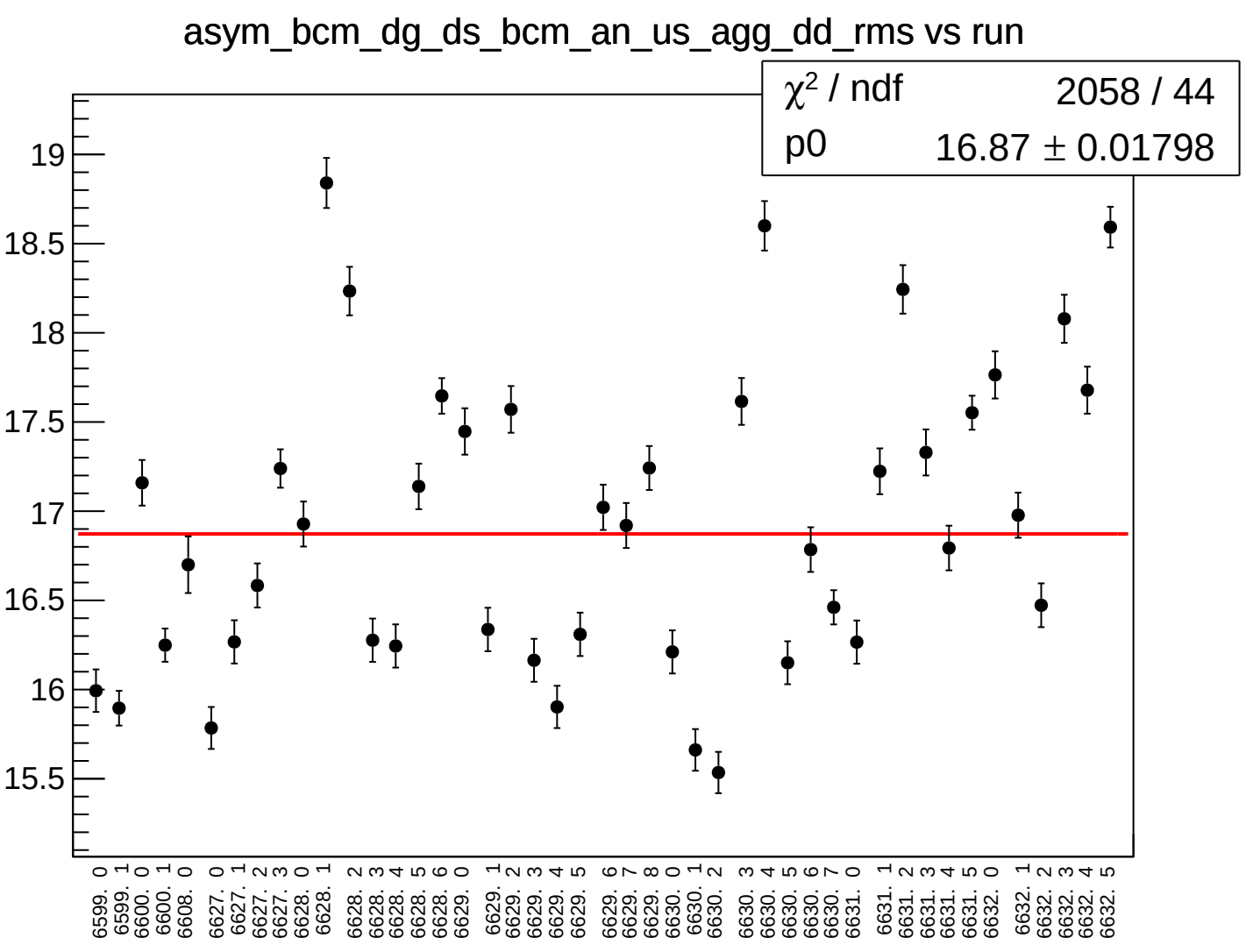
6632. 4
6632. 5

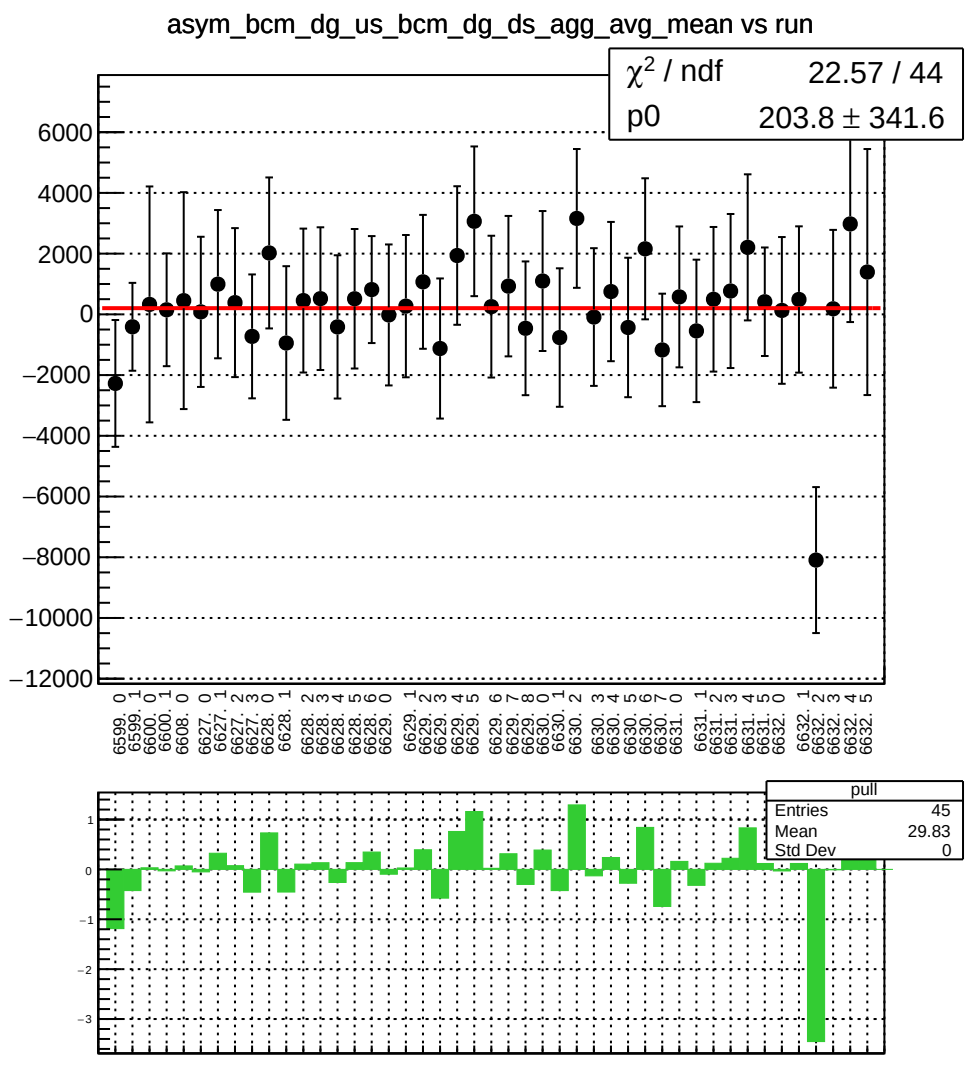

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 24.03 / 44
p0 182.3 ± 339
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 14.47
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.01501
Std Dev 0.7306
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

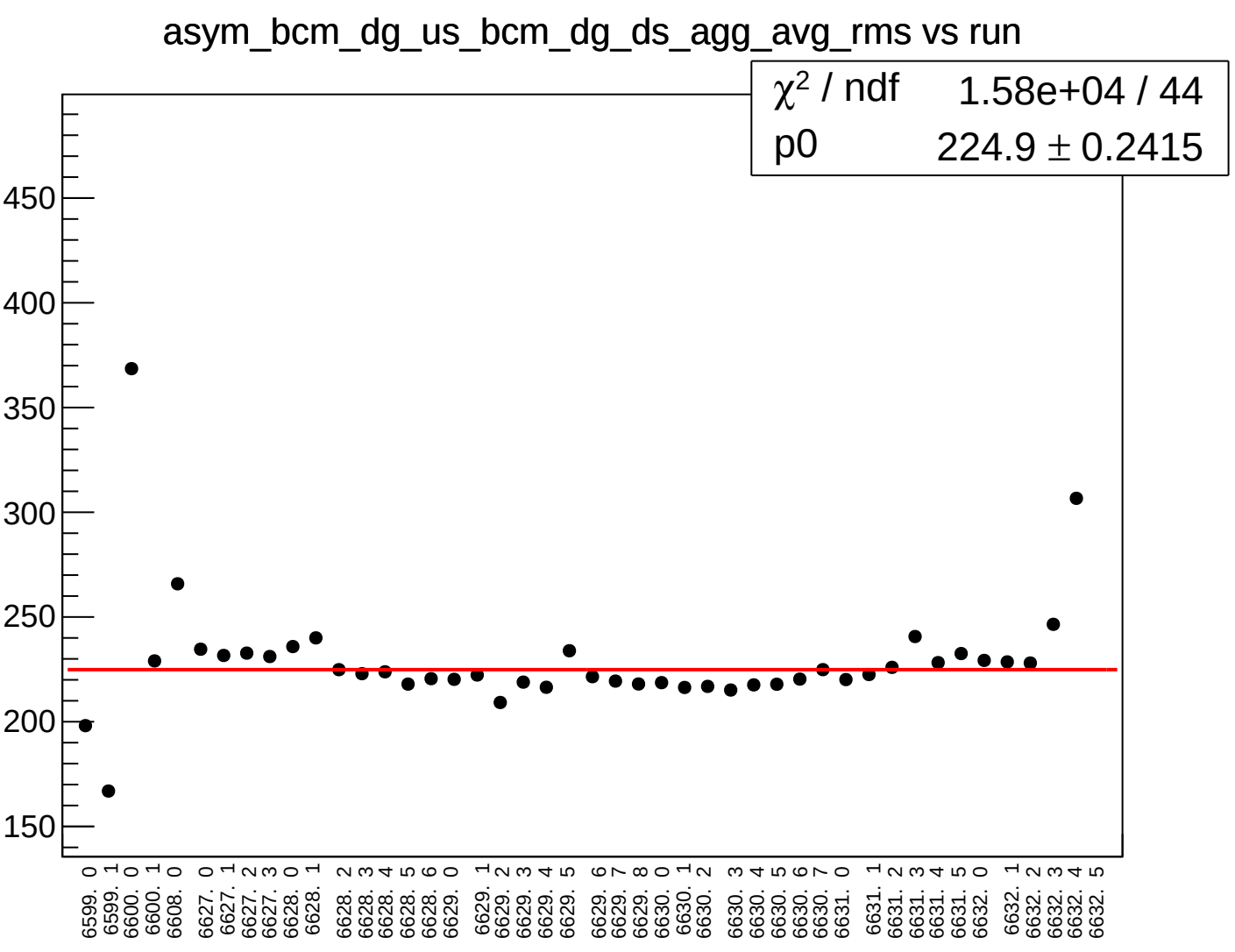

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.597e+04 / 44
p0 223.2 ± 0.2397
450
400
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

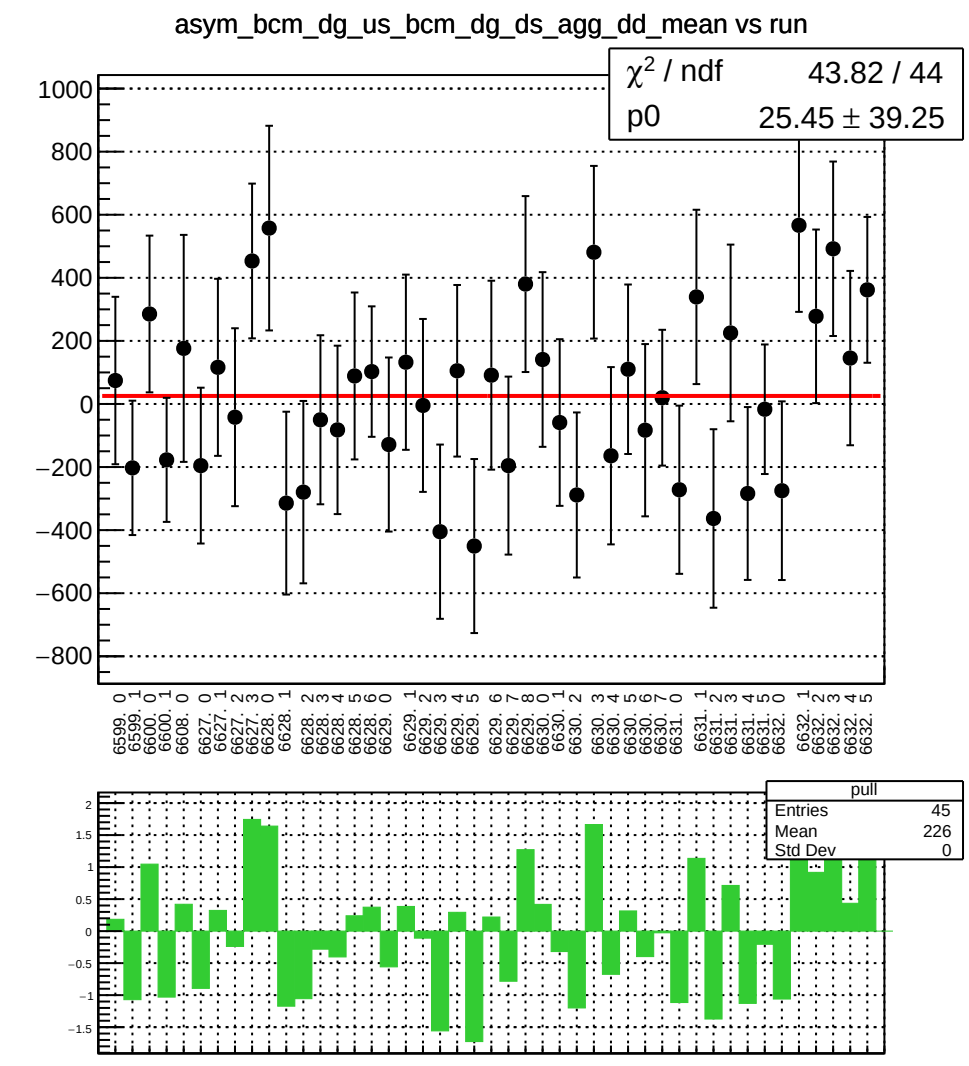

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 44.72 / 44
p0 12.91 ± 25.43
pull
Entries 45
Mean 48.94
Std Dev 0

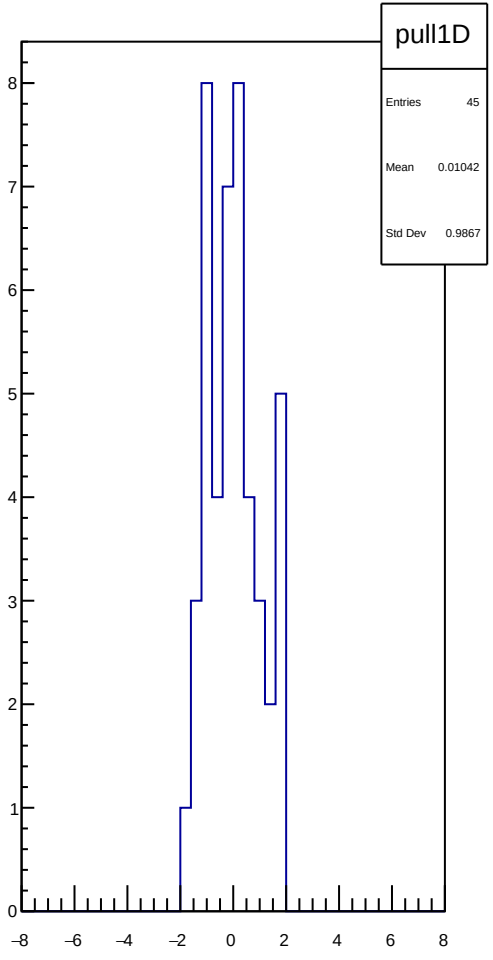

pull1D
Entries 45
Mean 0.008638
Std Dev 0.9968

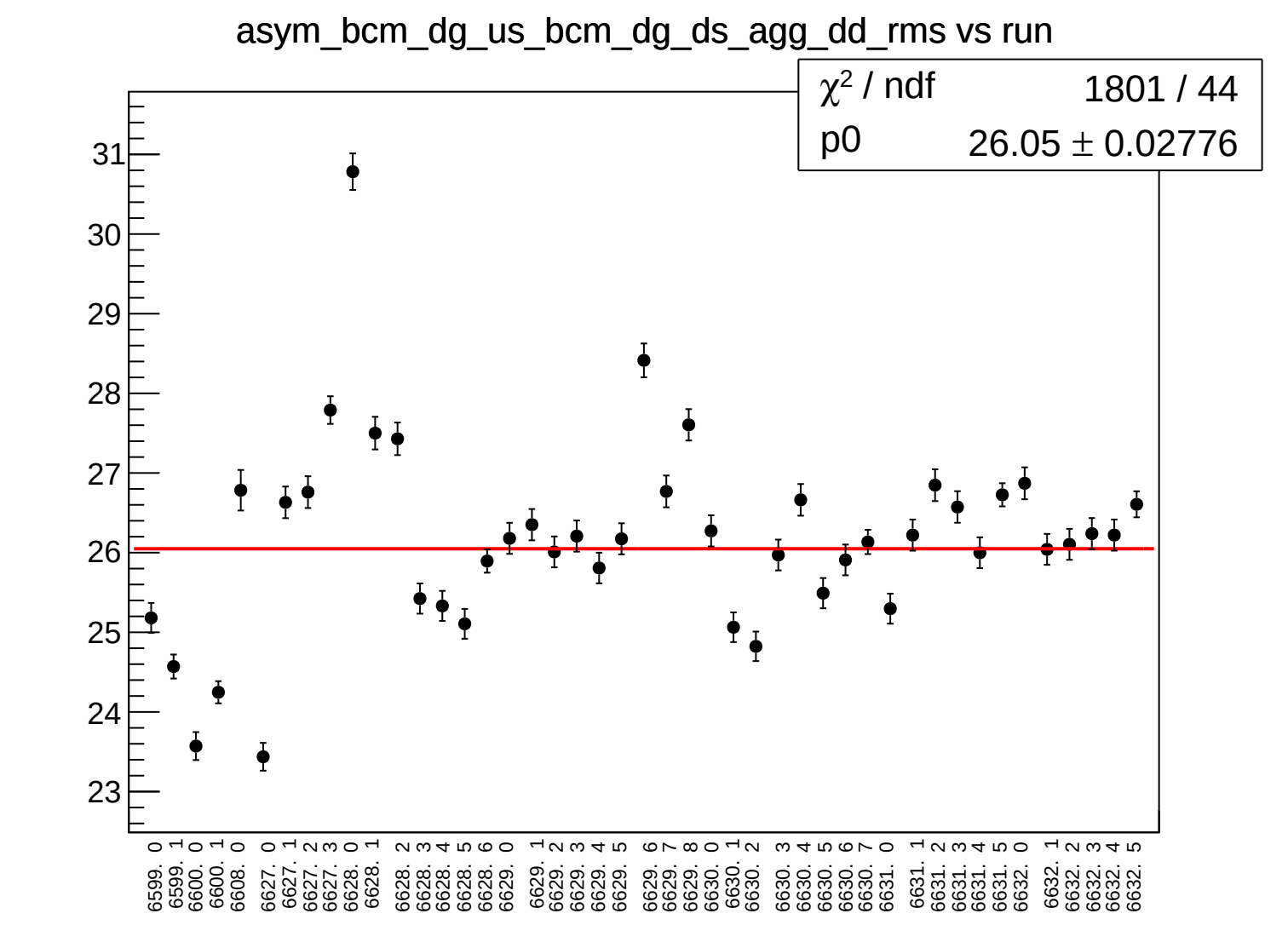

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2058 / 44
p0 16.87 ± 0.01798
19
18.5
18
17.5
17
16.5
16
15.5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

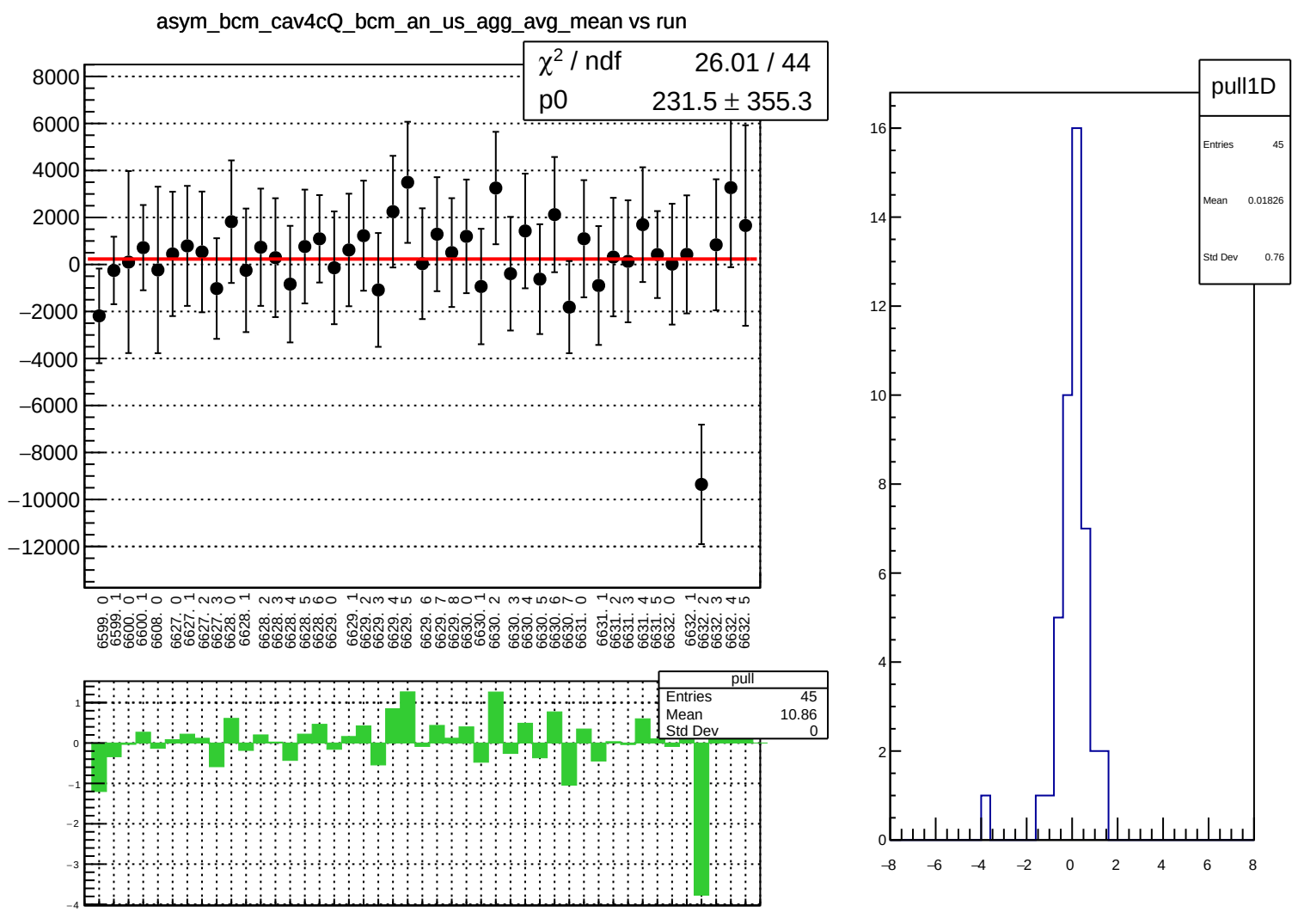

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 22.57 / 44
p0 203.8 ± 341.6
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 29.83
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.0201
Std Dev 0.7079
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

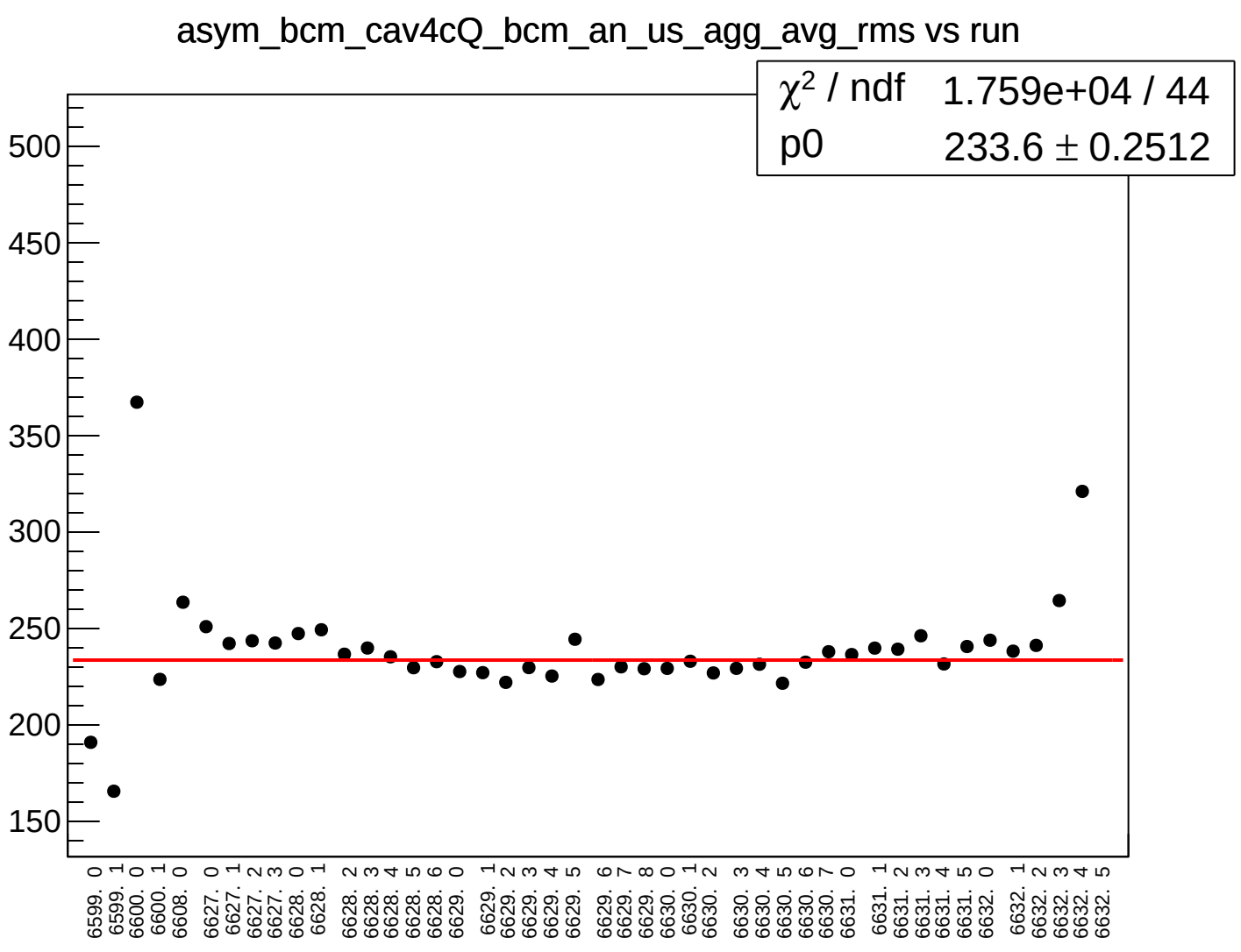

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.58e+04 / 44
p0 224.9 ± 0.2415
450
400
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

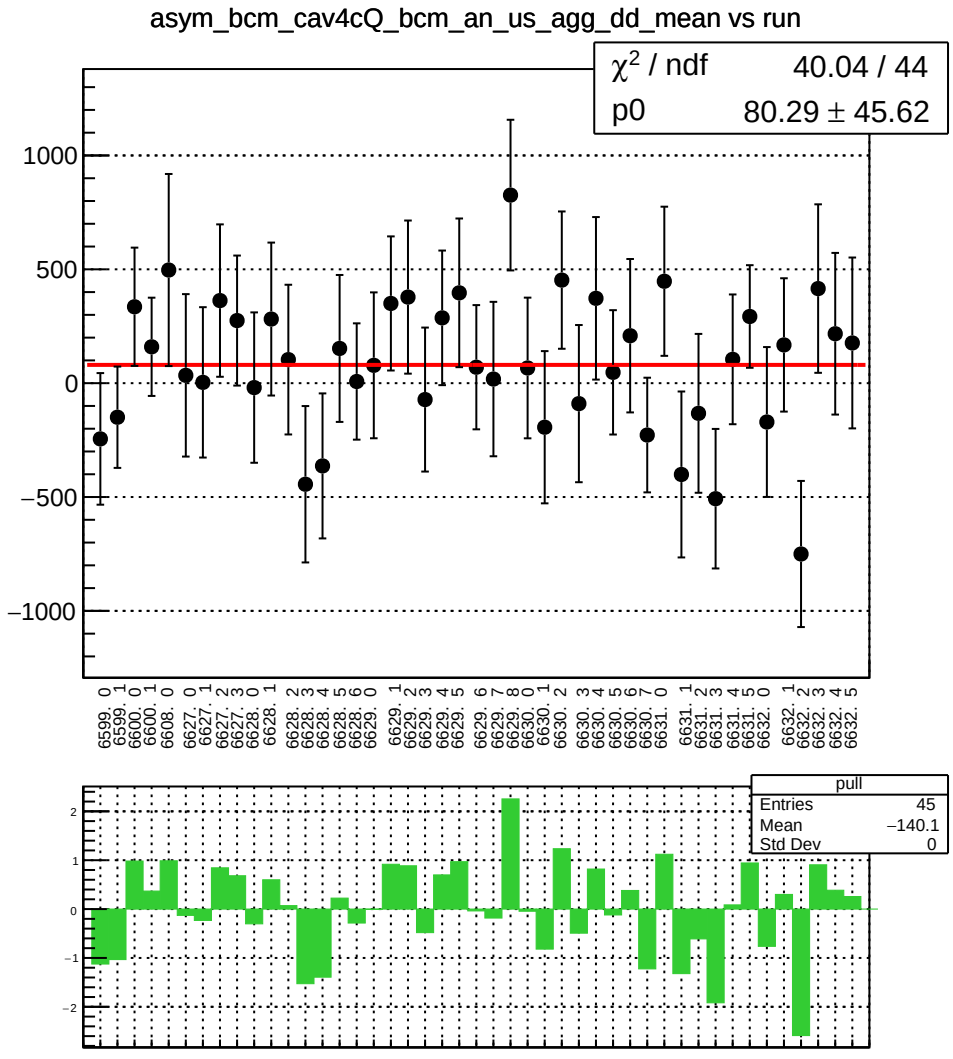

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 43.82 / 44
p0 25.45 ± 39.25
1000
800
600
400
200
0
−200
−400
−600
−800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 226
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

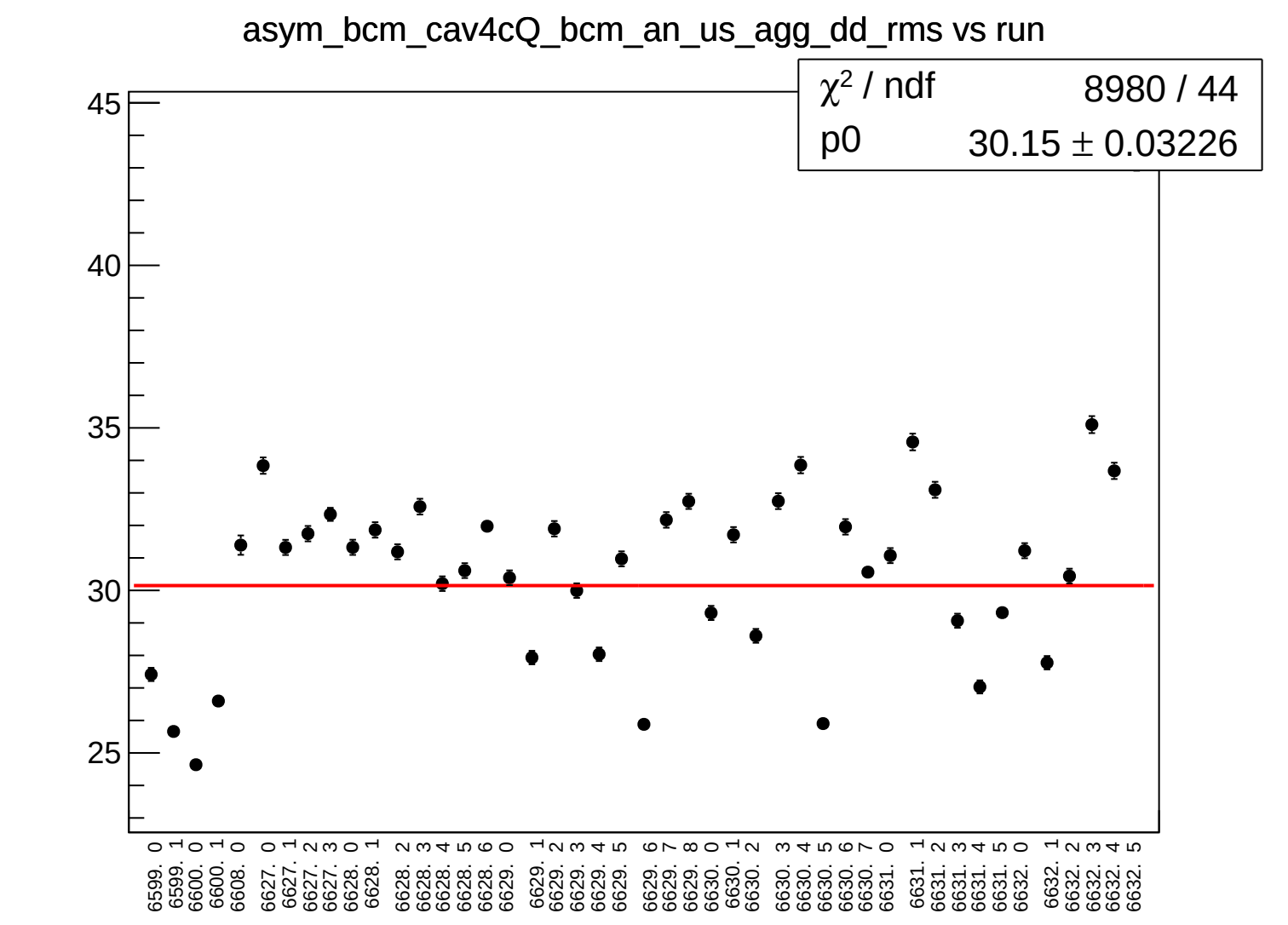

pull1D
Entries 45
Mean 0.01042
Std Dev 0.9867
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1801 / 44
p0 26.05 ± 0.02776
31
30
29
28
27
26
25
24
23
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 26.01 / 44
p0 231.5 ± 355.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 10.86
Std Dev 0
1
0
−1
−2
−3
−4
pull1D
Entries 45
Mean 0.01826
Std Dev 0.76
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.759e+04 / 44
p0 233.6 ± 0.2512
500
450
400
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 40.04 / 44
p0 80.29 ± 45.62
1000
500
0
−500
−1000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −140.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.006292
Std Dev 0.9432
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 8980 / 44
p0 30.15 ± 0.03226
45
40
35
30
25
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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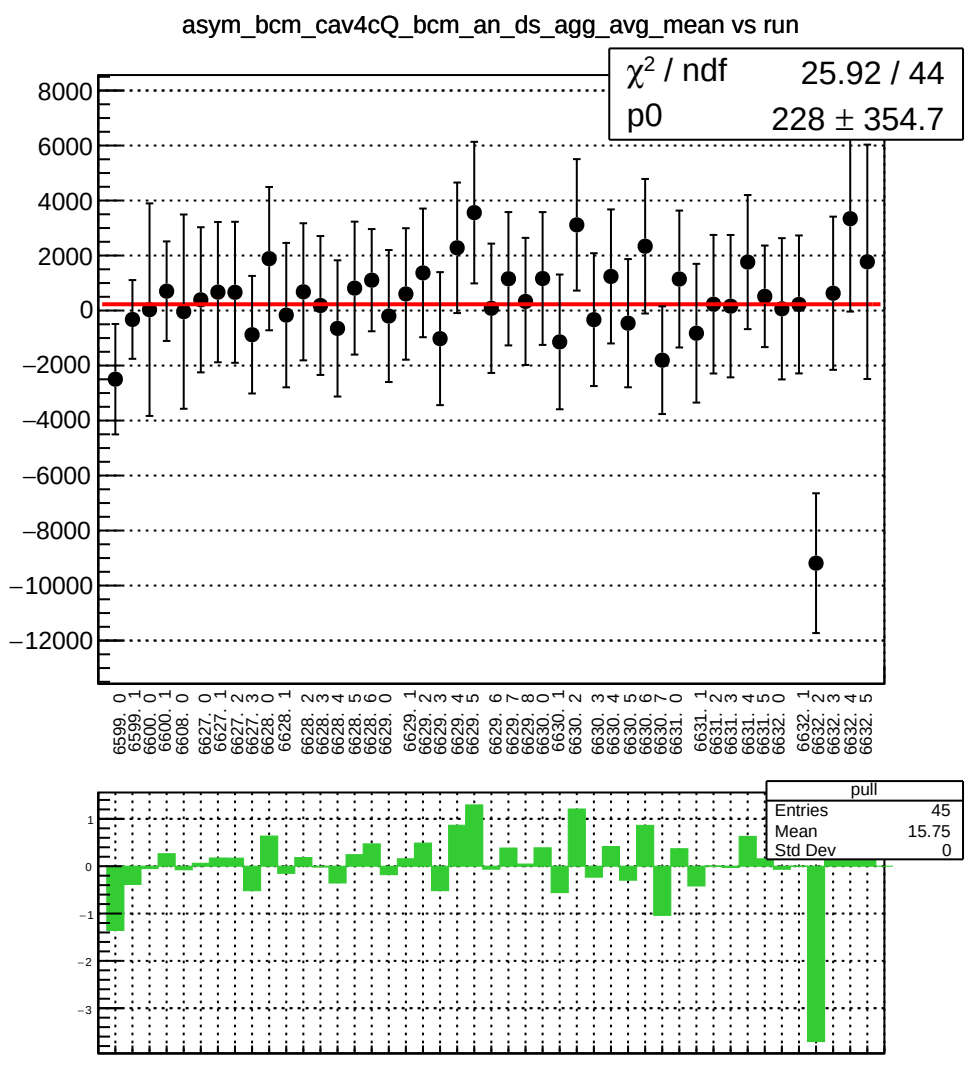
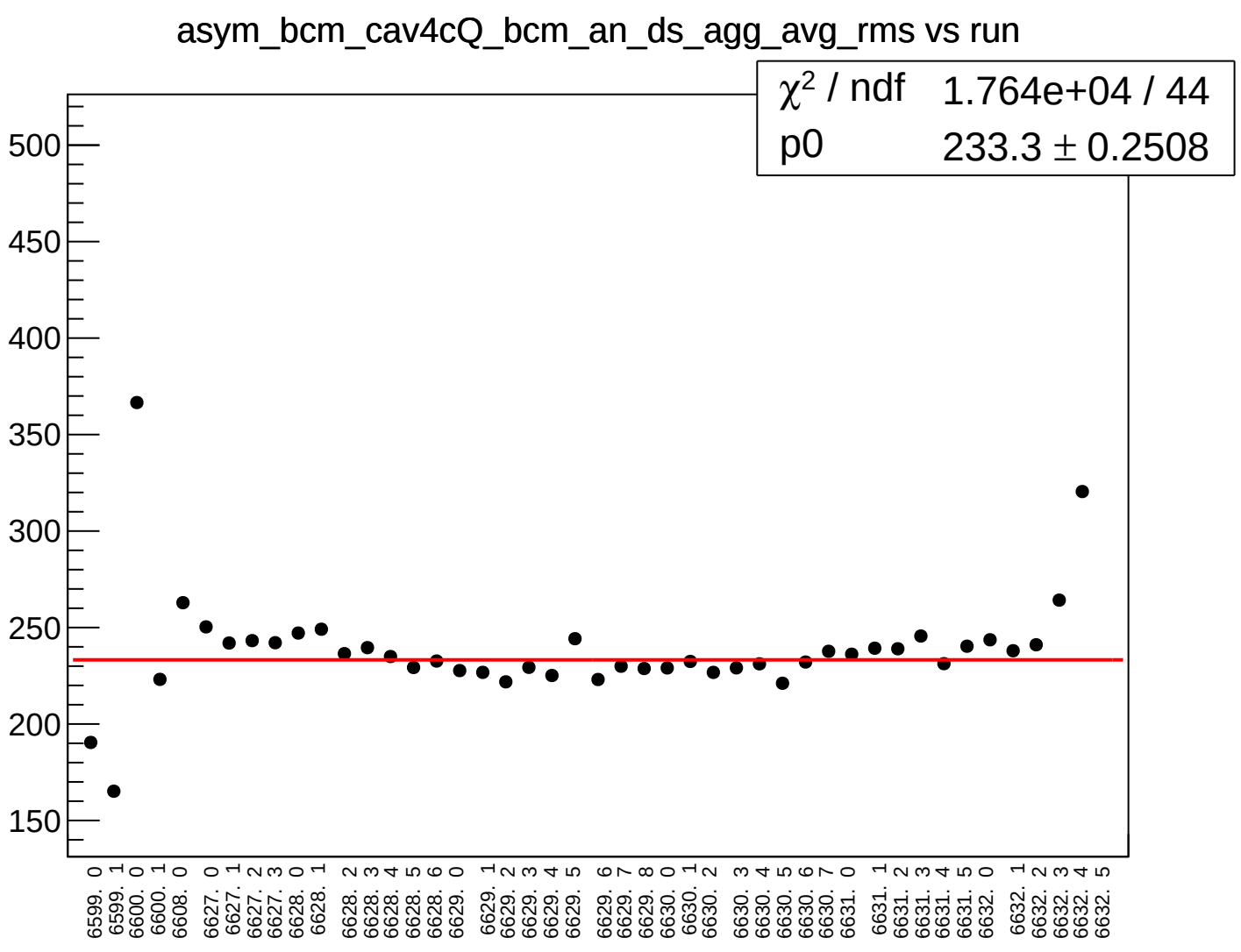
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 25.92 / 44
p0 228 ± 354.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 15.75
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.0197
Std Dev 0.7587
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.764e+04 / 44
p0 233.3 ± 0.2508
500
450
400
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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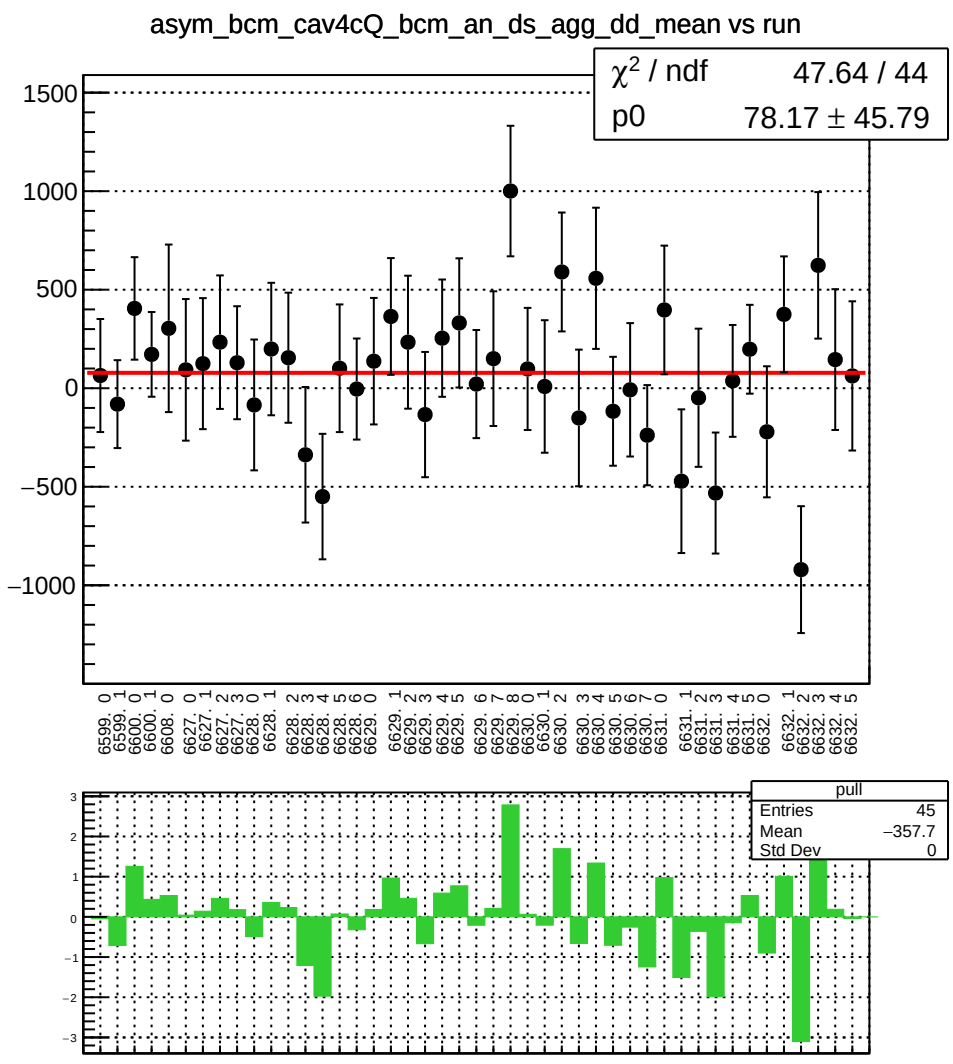
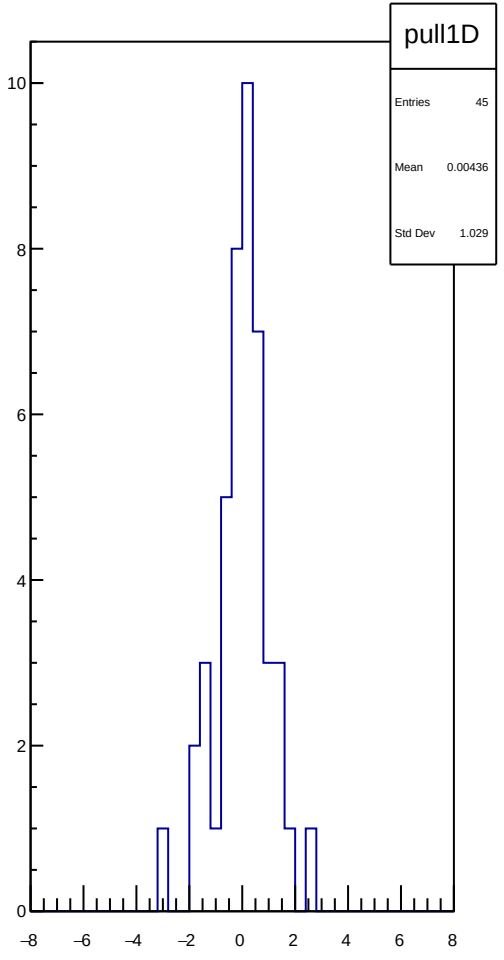
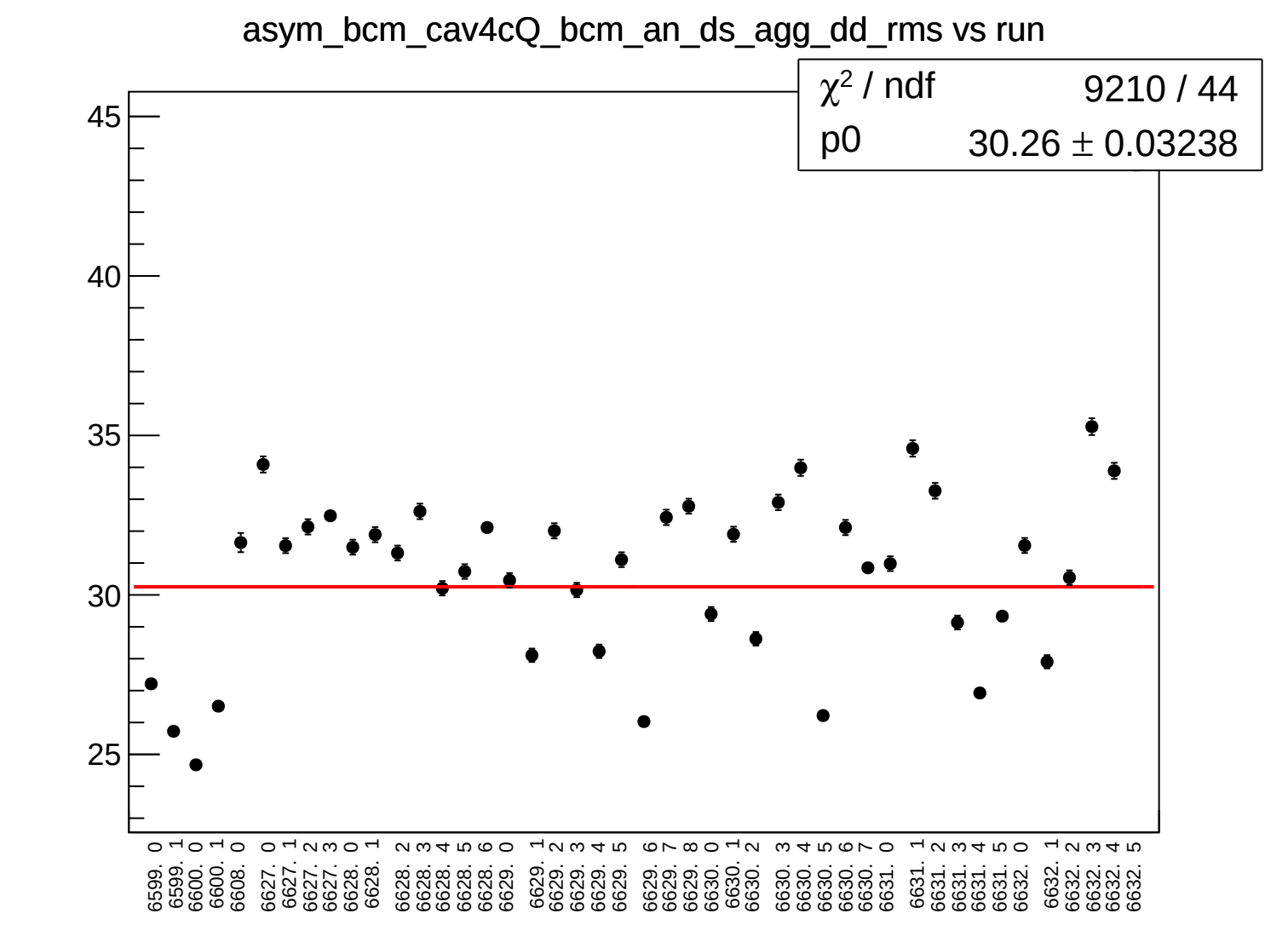
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 47.64 / 44
p0 78.17 ± 45.79
1500
1000
500
0
−500
−1000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −357.7
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.00436
Std Dev 1.029
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 9210 / 44
p0 30.26 ± 0.03238
45
40
35
30
25
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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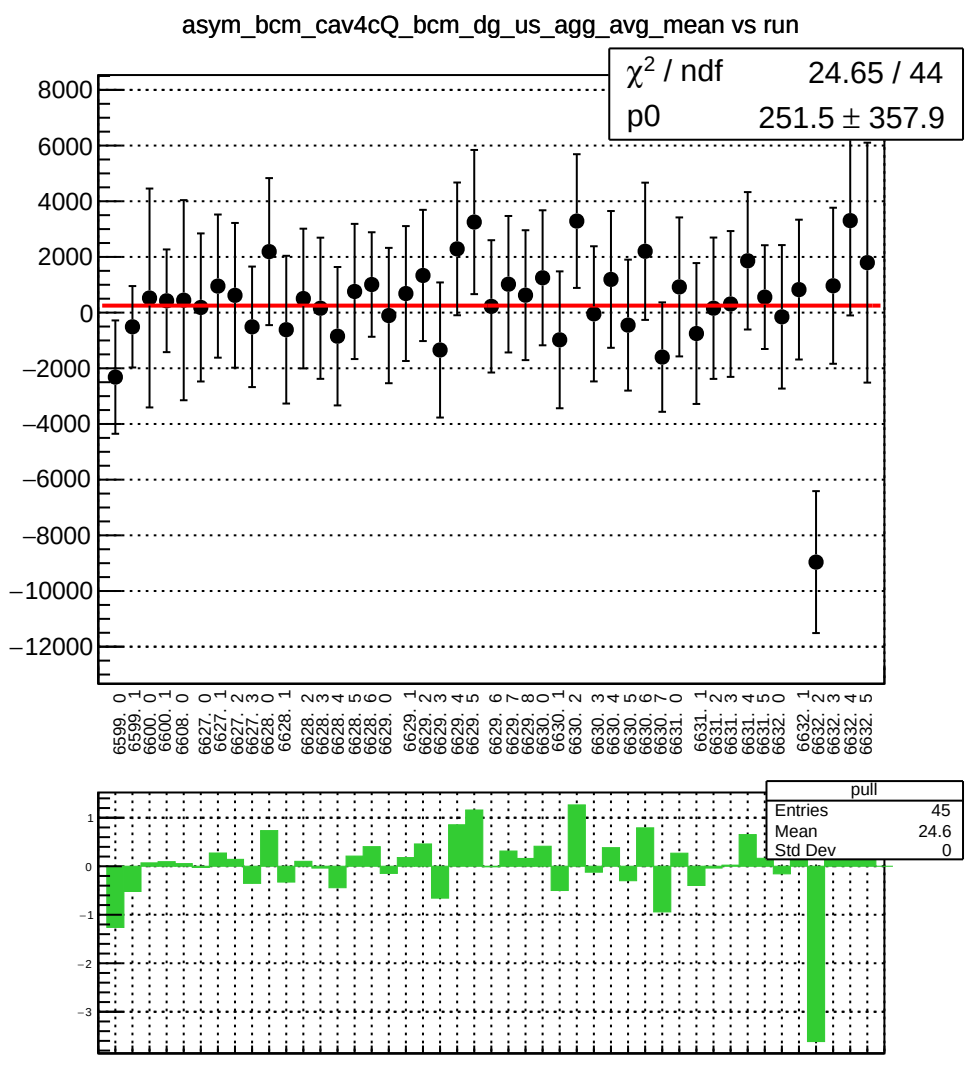
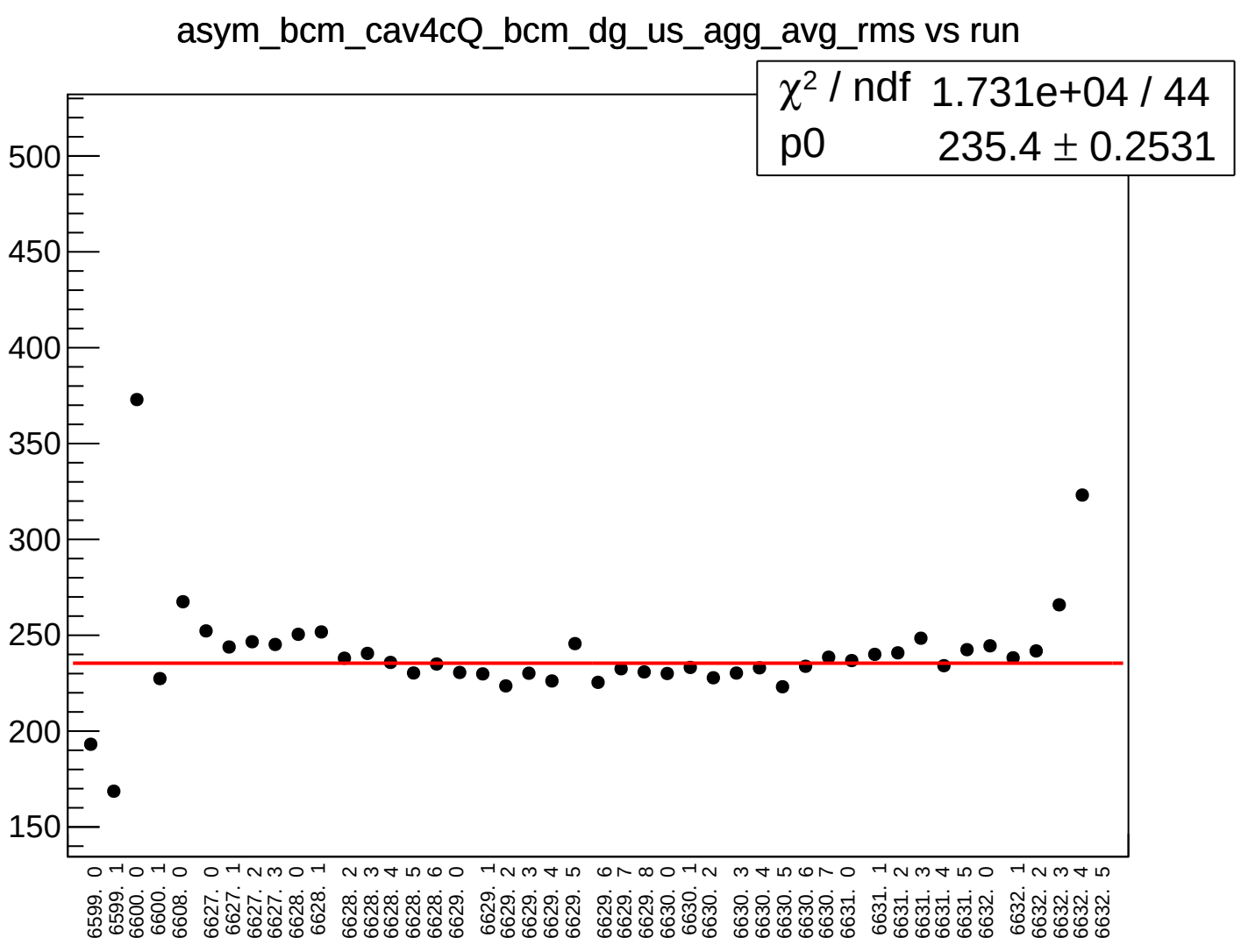
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 24.65 / 44
p0 251.5 ± 357.9
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 24.6
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.02362
Std Dev 0.7398
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 1.731e+04 / 44
p0 235.4 ± 0.2531
500
450
400
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
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6628. 2
6628. 3
6628. 4
6628. 5
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6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
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6632. 0
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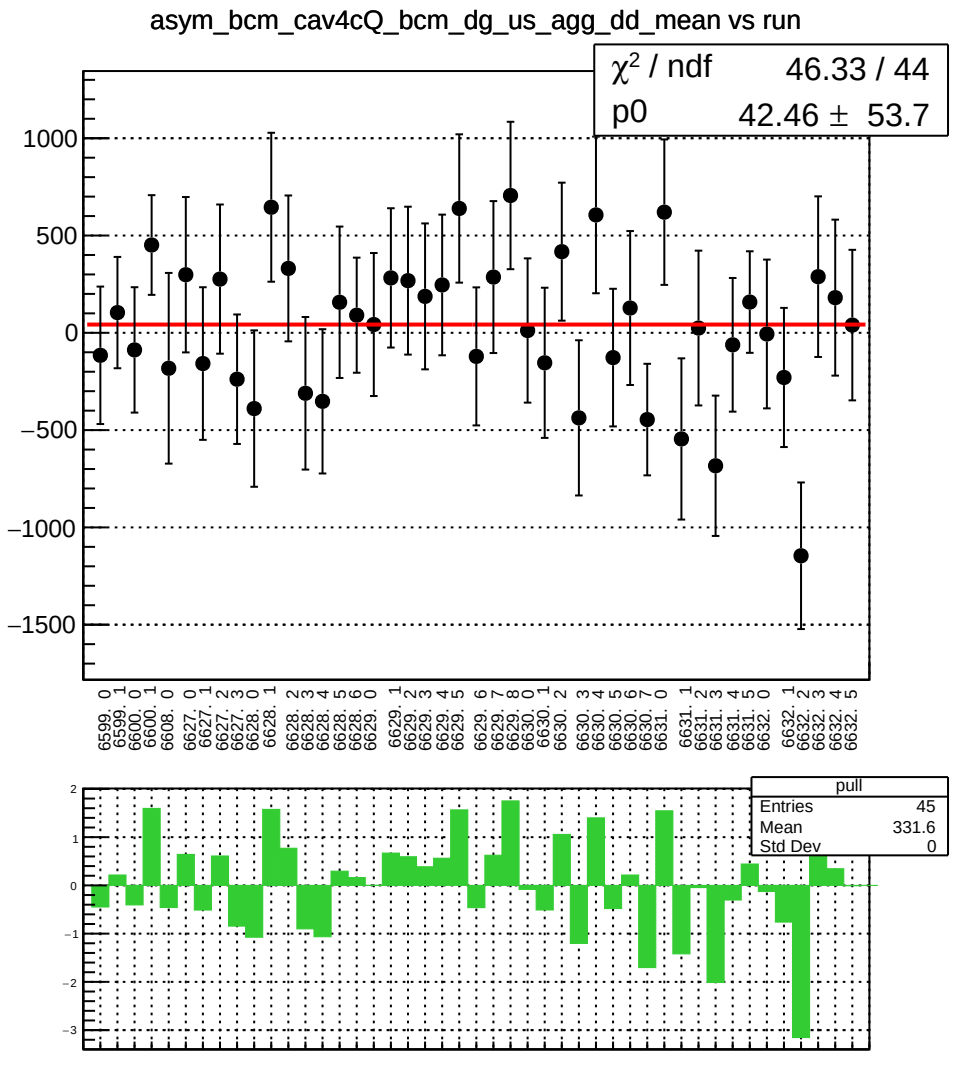
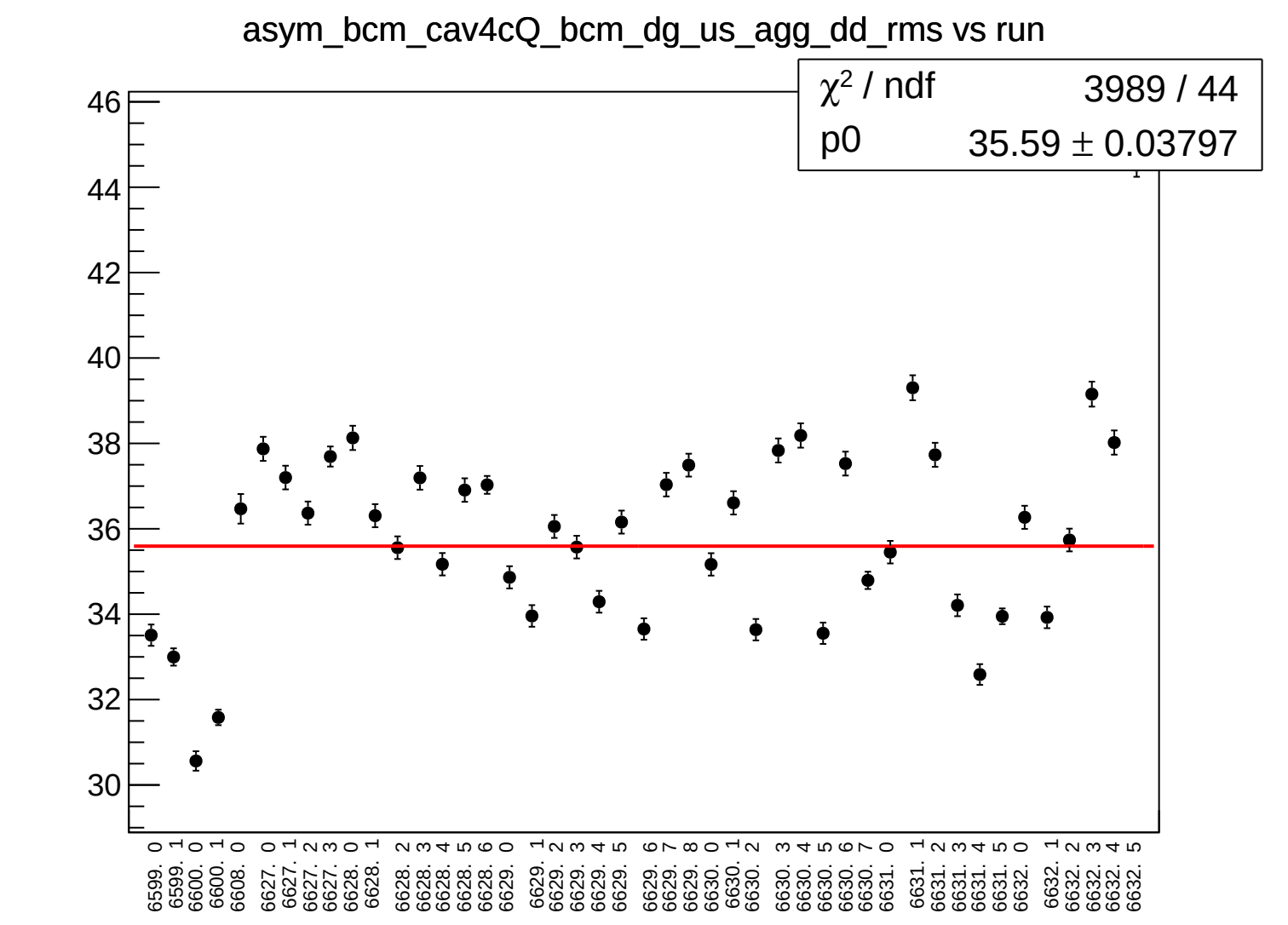
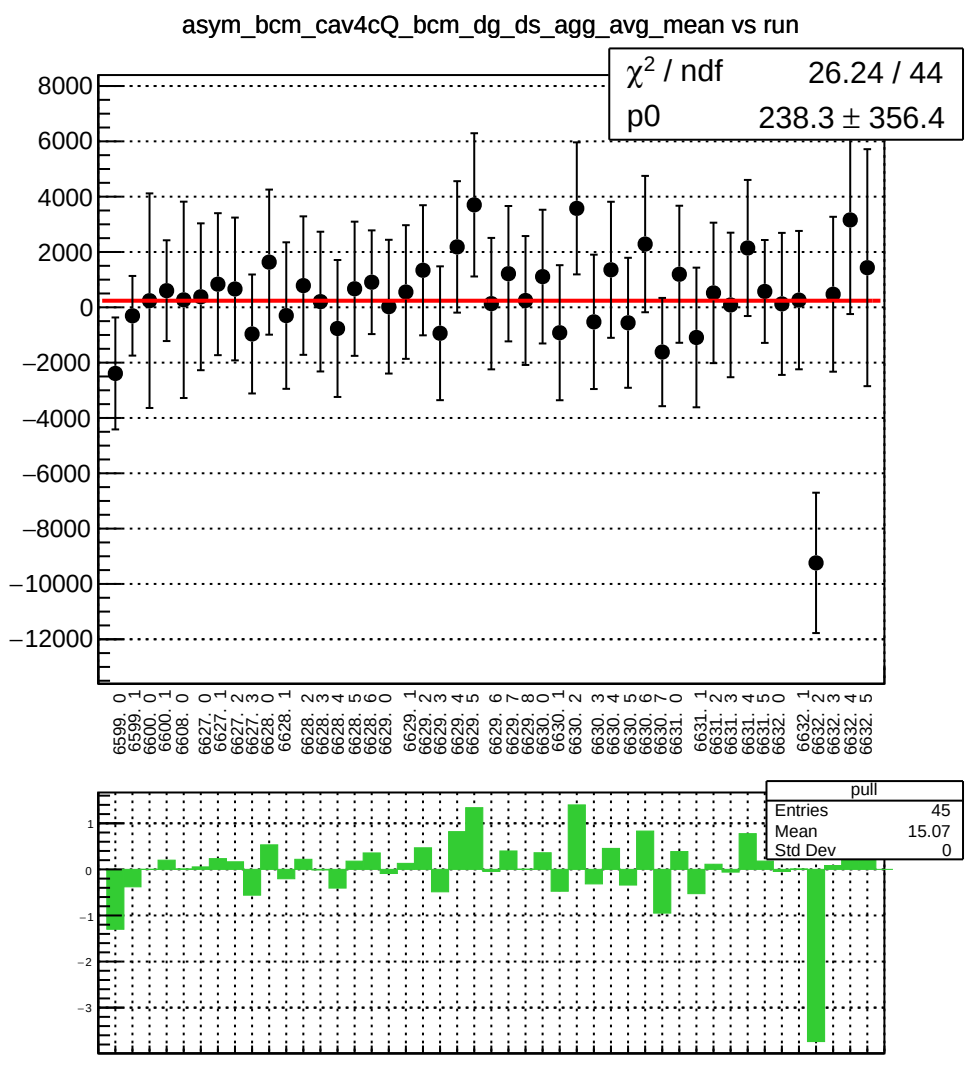
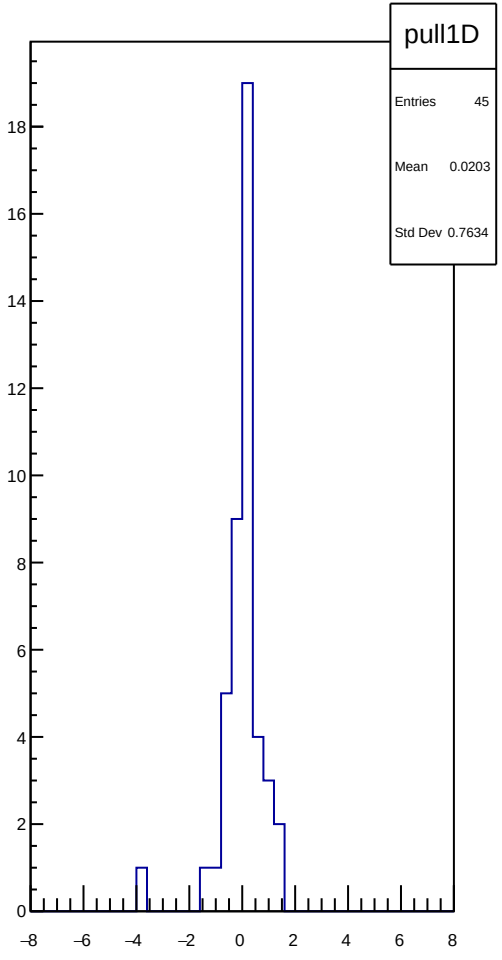
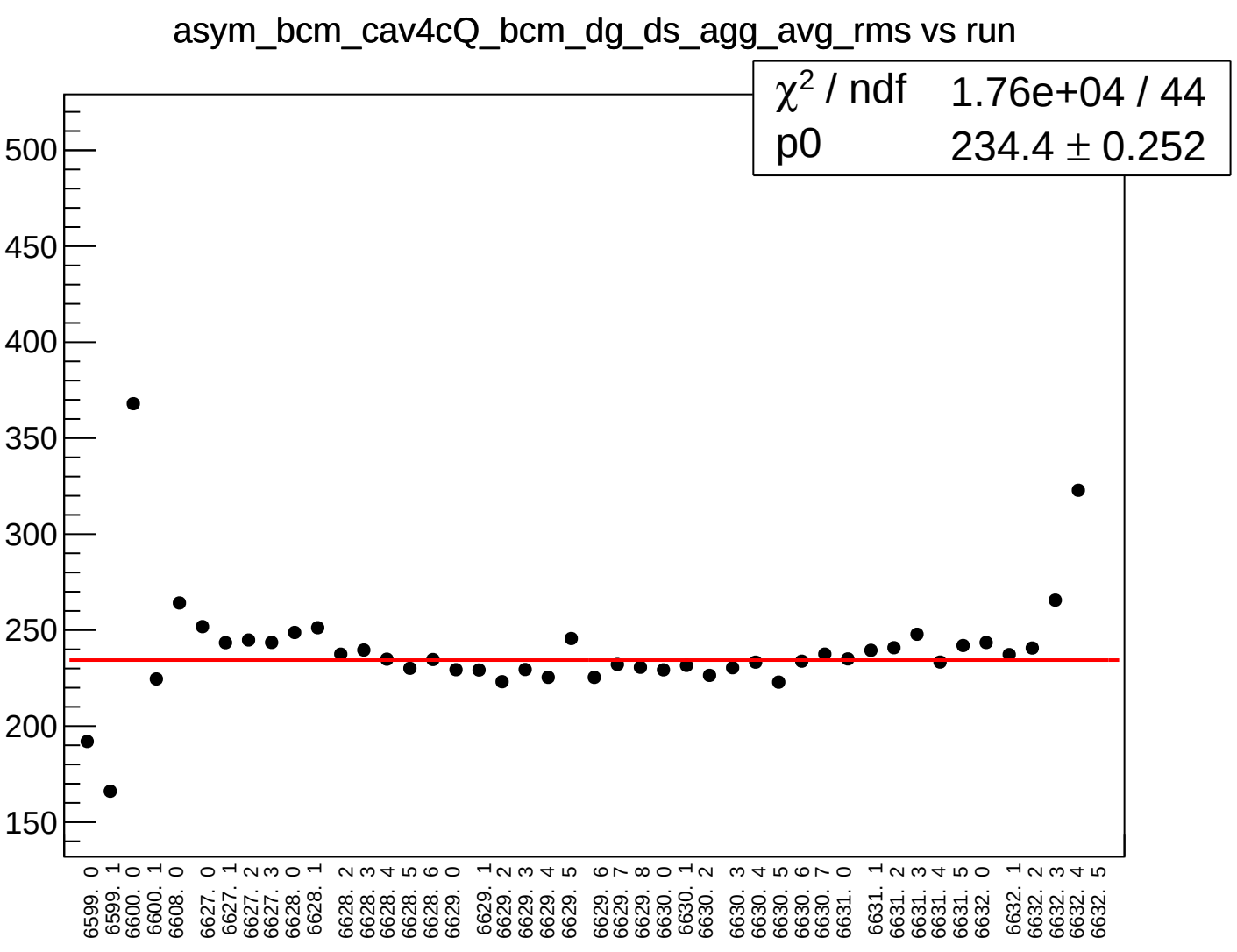
6632. 3
6632. 4
6632. 5

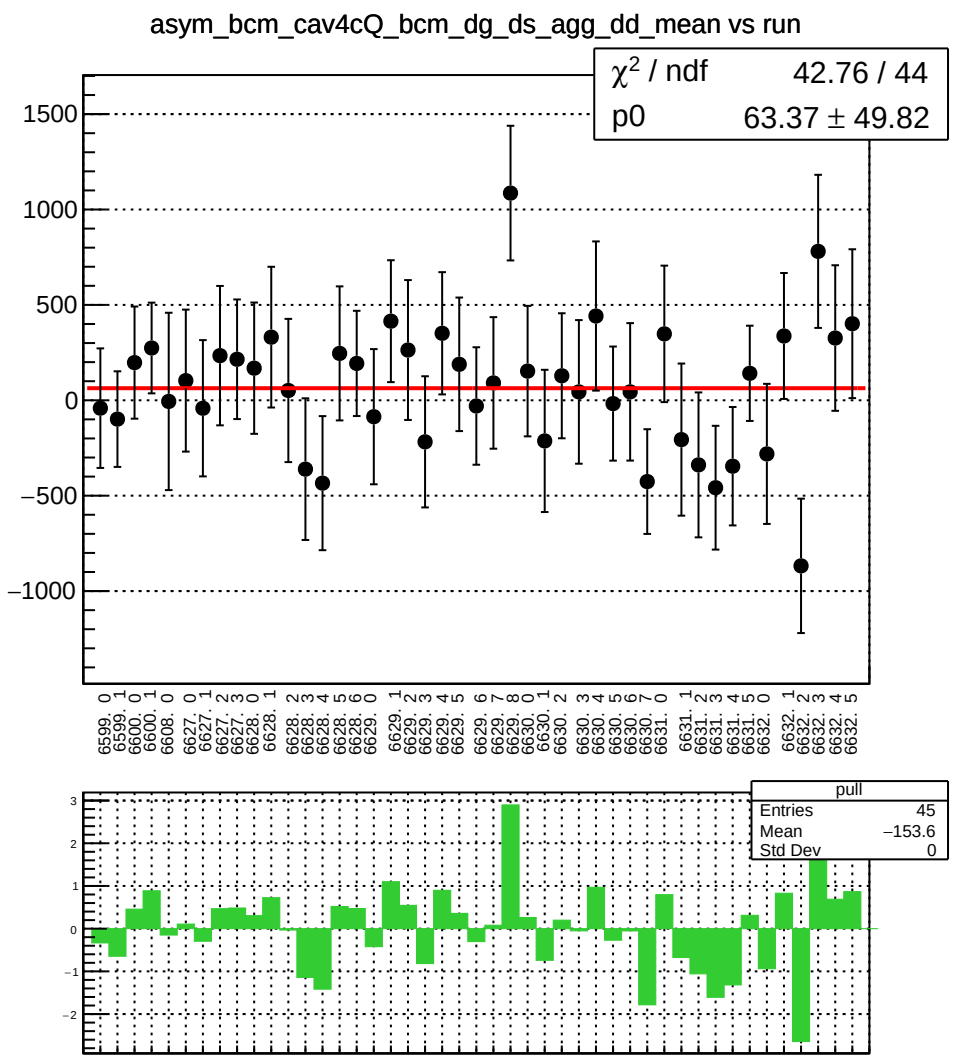

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 46.33 / 44
p0 42.46 ± 53.7
1000
500
0
−500
−1000
−1500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 331.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.007825
Std Dev 1.015
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

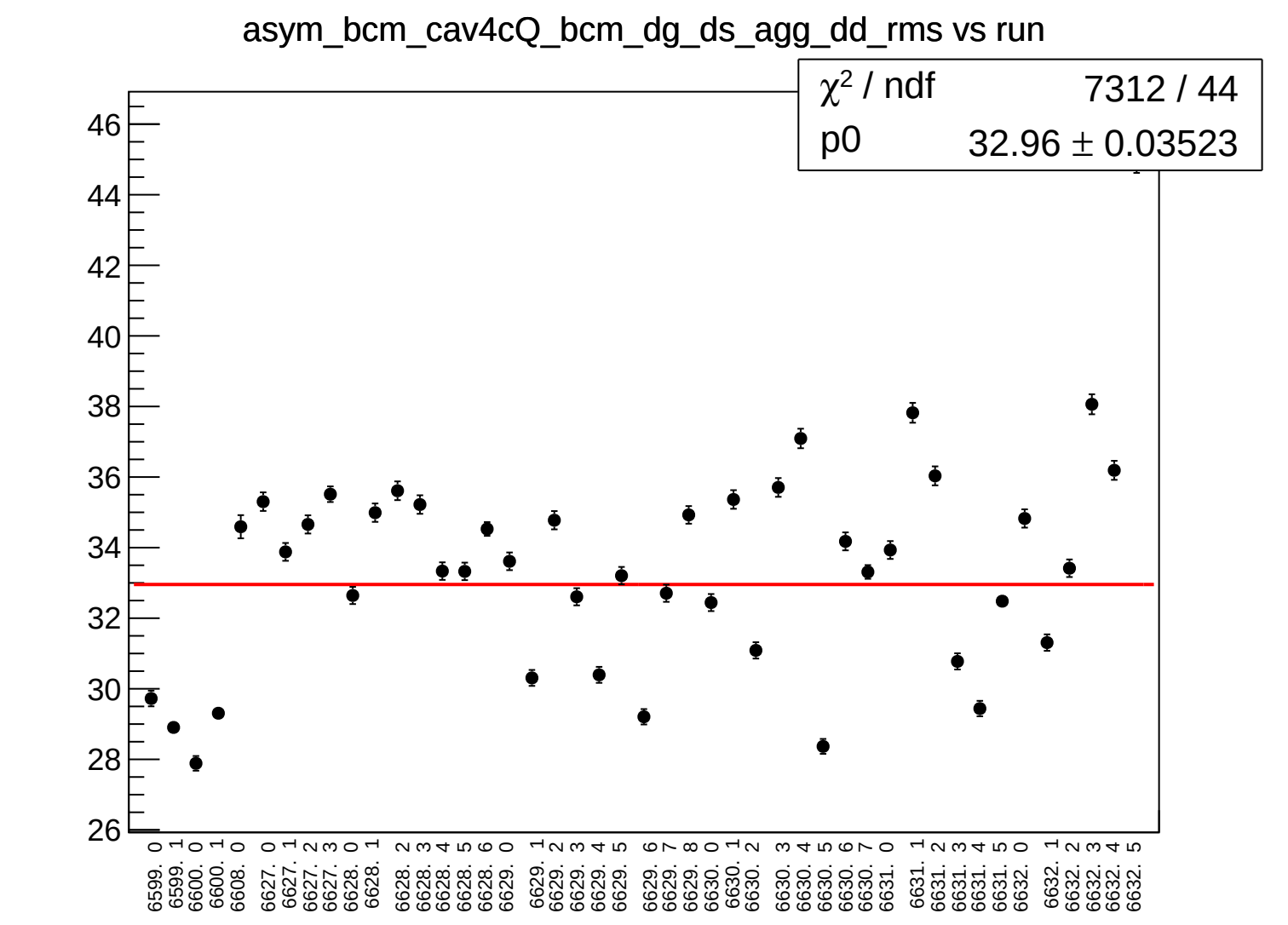

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 3989 / 44
p0 35.59 ± 0.03797
46
44
42
40
38
36
34
32
30
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

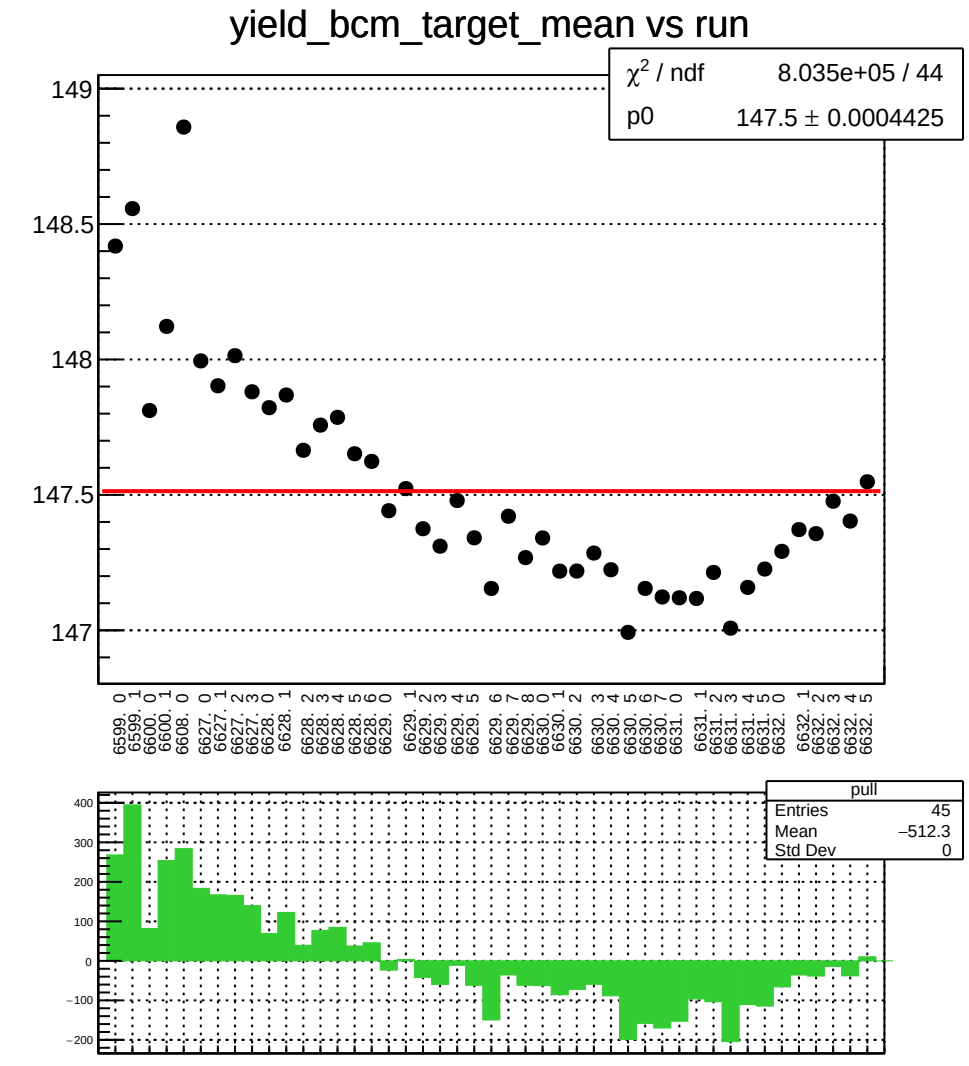

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 26.24 / 44
p0 238.3 ± 356.4
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 15.07
Std Dev 0
1
0
−1
−2
−3

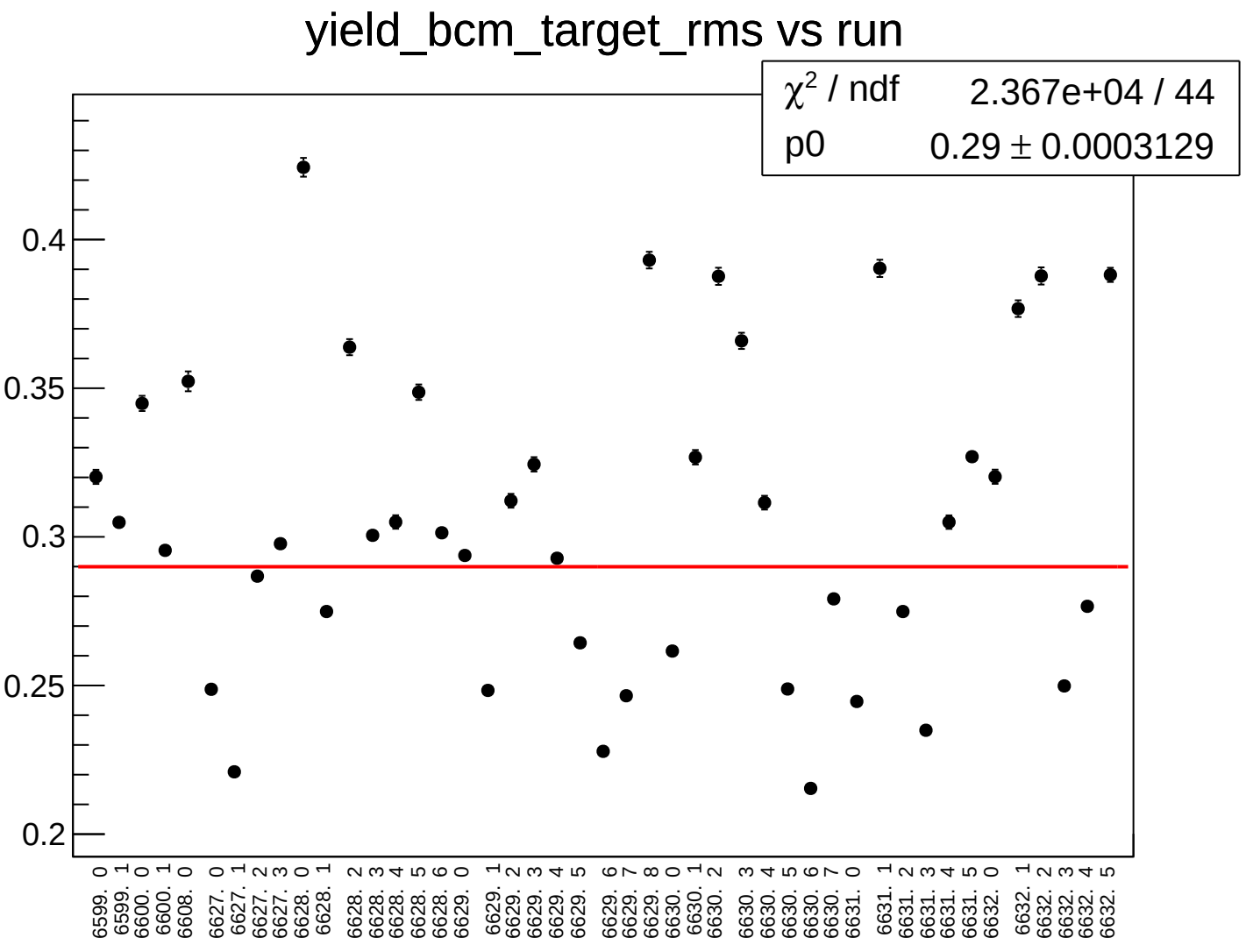

pull1D
Entries 45
Mean 0.0203
Std Dev 0.7634
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

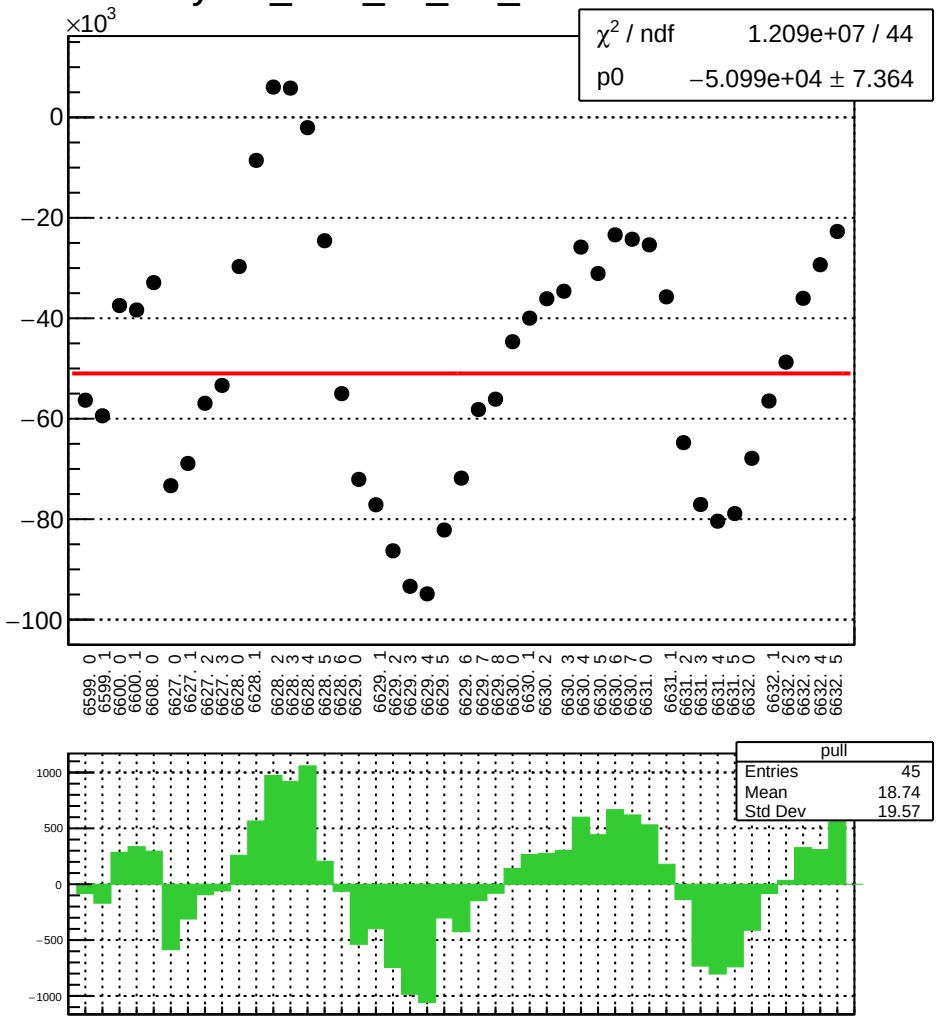

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.76e+04 / 44
p0 234.4 ± 0.252
500
450
400
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

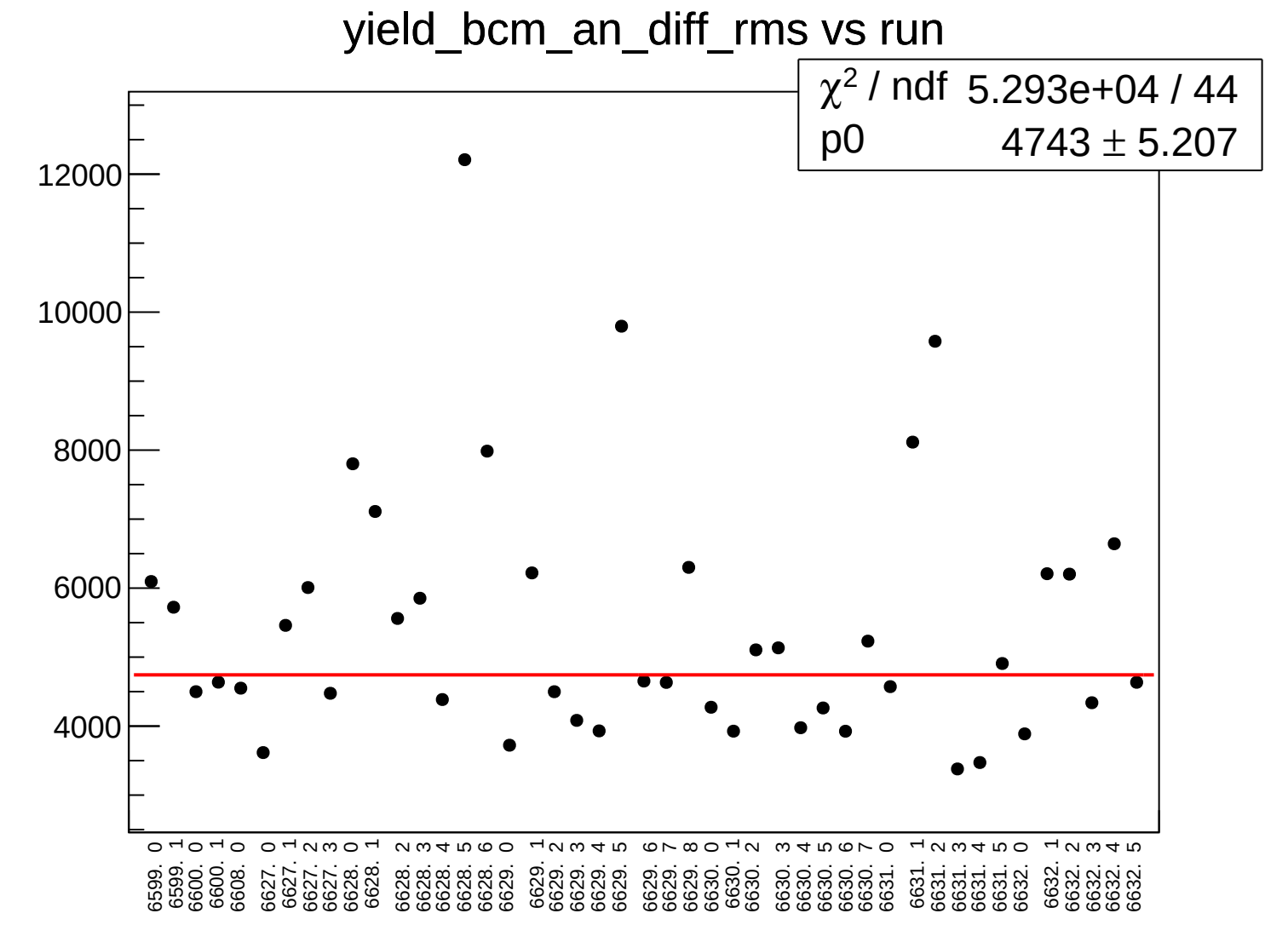

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 42.76 / 44
p0 63.37 ± 49.82
1500
1000
500
0
−500
−1000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −153.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.006985
Std Dev 0.9748
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 7312 / 44
p0 32.96 ± 0.03523
46
44
42
40
38
36
34
32
30
28
26
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


yield_bcm_target_mean vs run
χ² / ndf 8.035e+05 / 44
p0 147.5 ± 0.0004425
149
148.5
148
147.5
147
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −512.3
Std Dev 0
400
300
200
100
0
−100
−200
pull1D
Entries 45
Mean 3.618
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 2.367e+04 / 44
p0 0.29 ± 0.0003129
0.4
0.35
0.3
0.25
0.2
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


yield_bcm_an_diff_mean vs run
×10^3
χ² / ndf 1.209e+07 / 44
p0 −5.099e+04 ± 7.364
0
−20
−40
−60
−80
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 18.74
Std Dev 19.57
1000
500
0
−500
−1000
pull1D
Entries 45
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 5.293e+04 / 44
p0 4743 ± 5.207
12000
10000
8000
6000
4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
6631. 5
6632. 0
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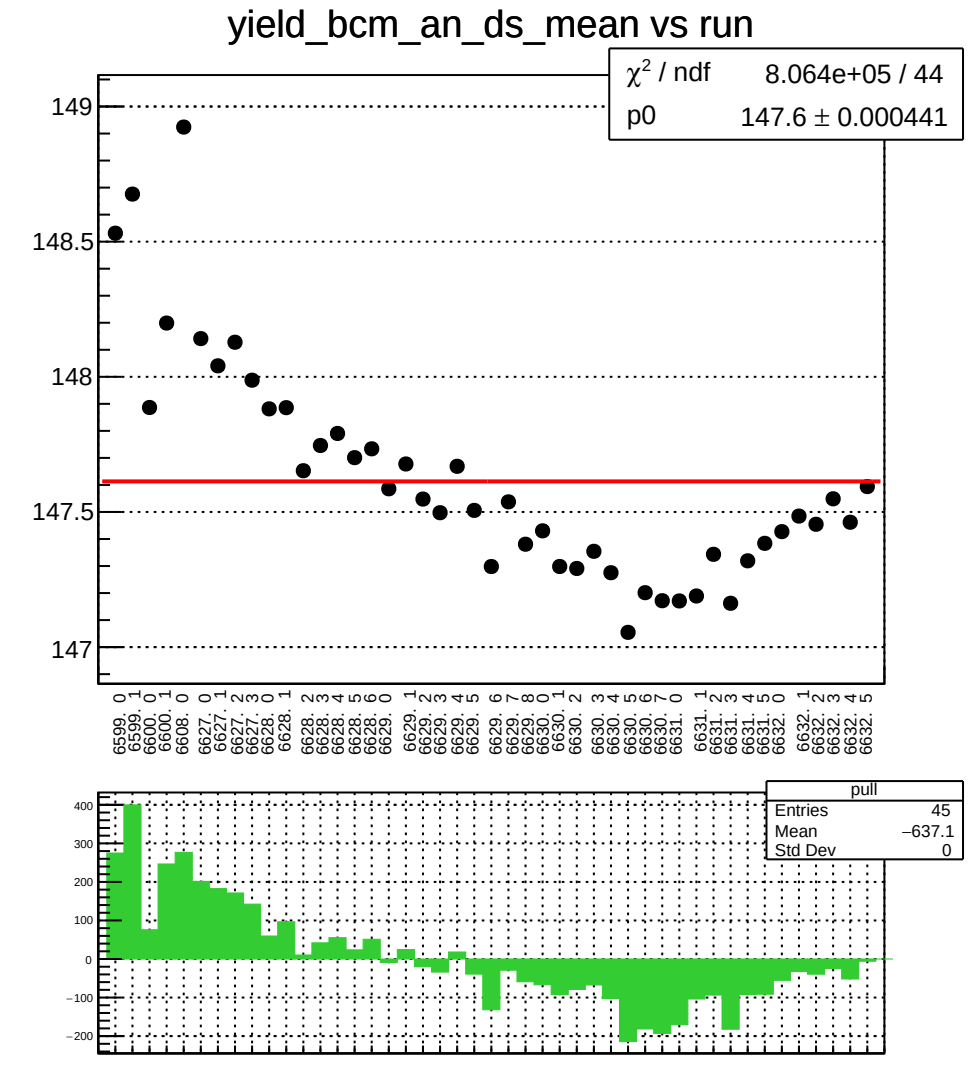
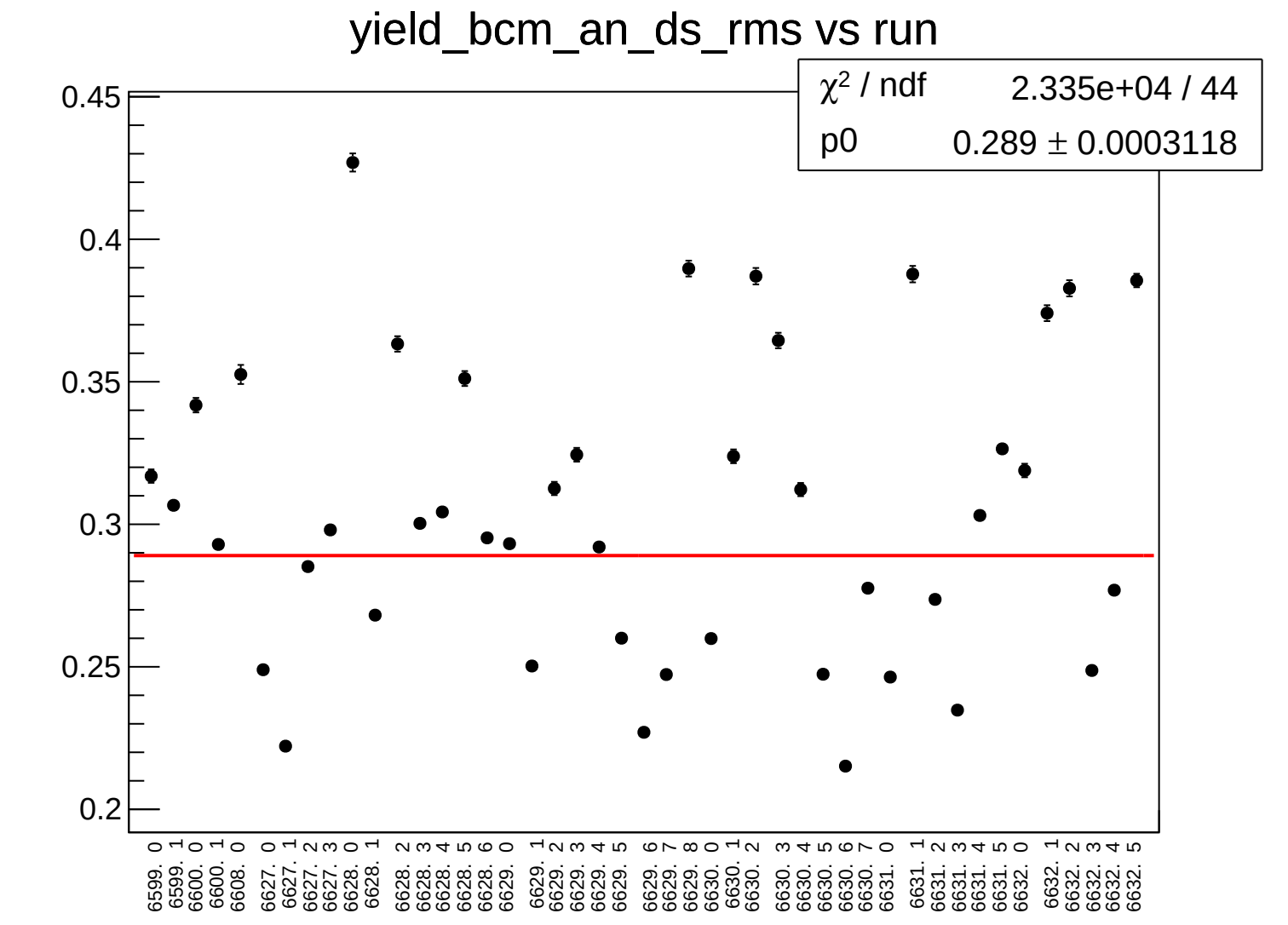
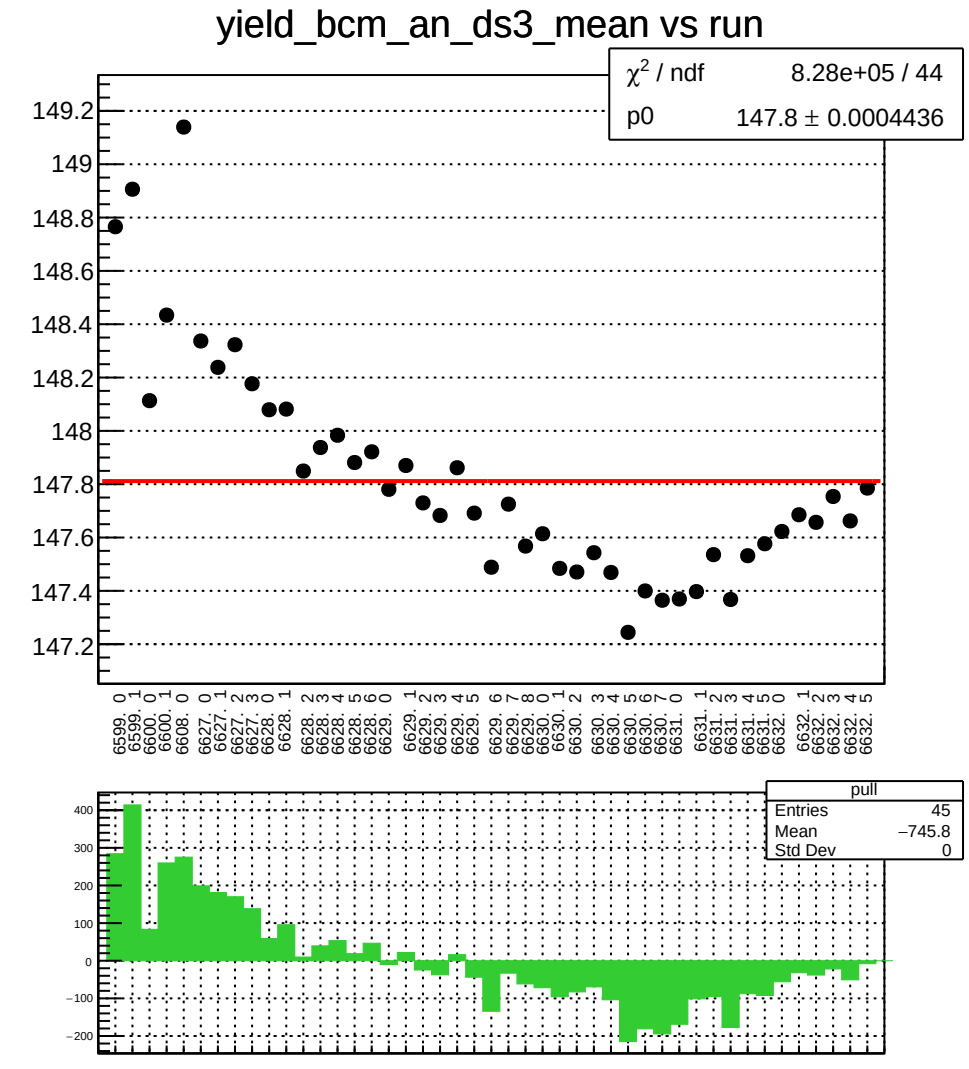
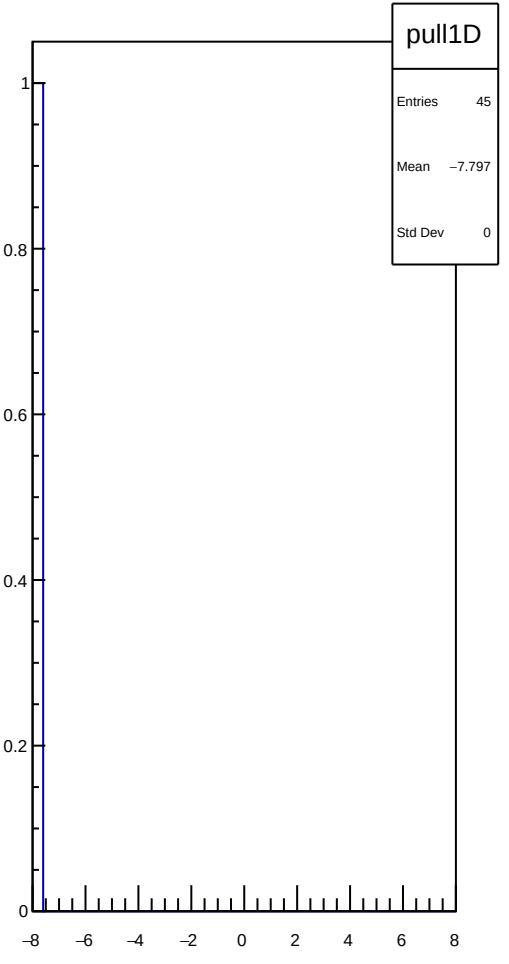
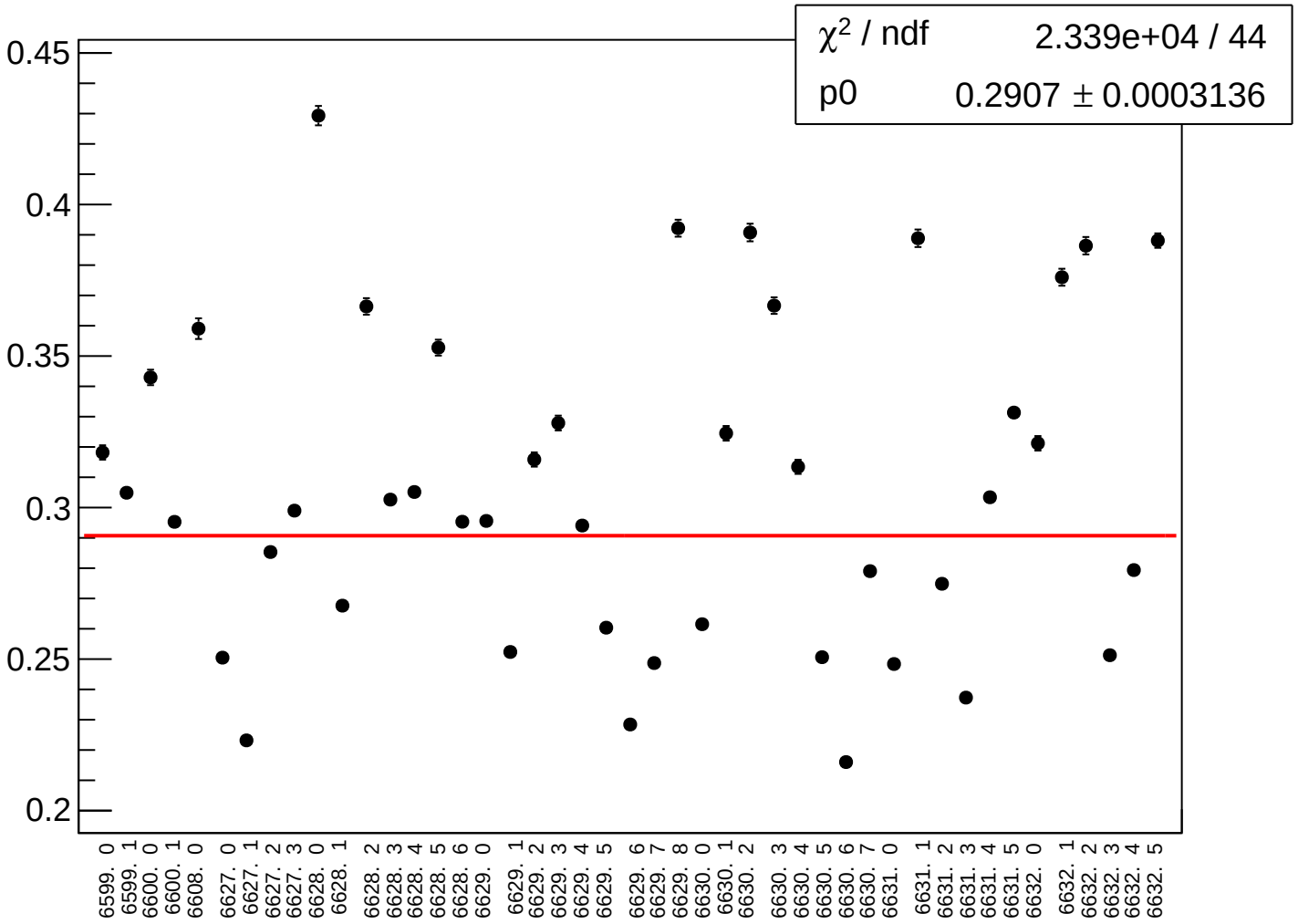
6632. 2
6632. 3
6632. 4
6632. 5

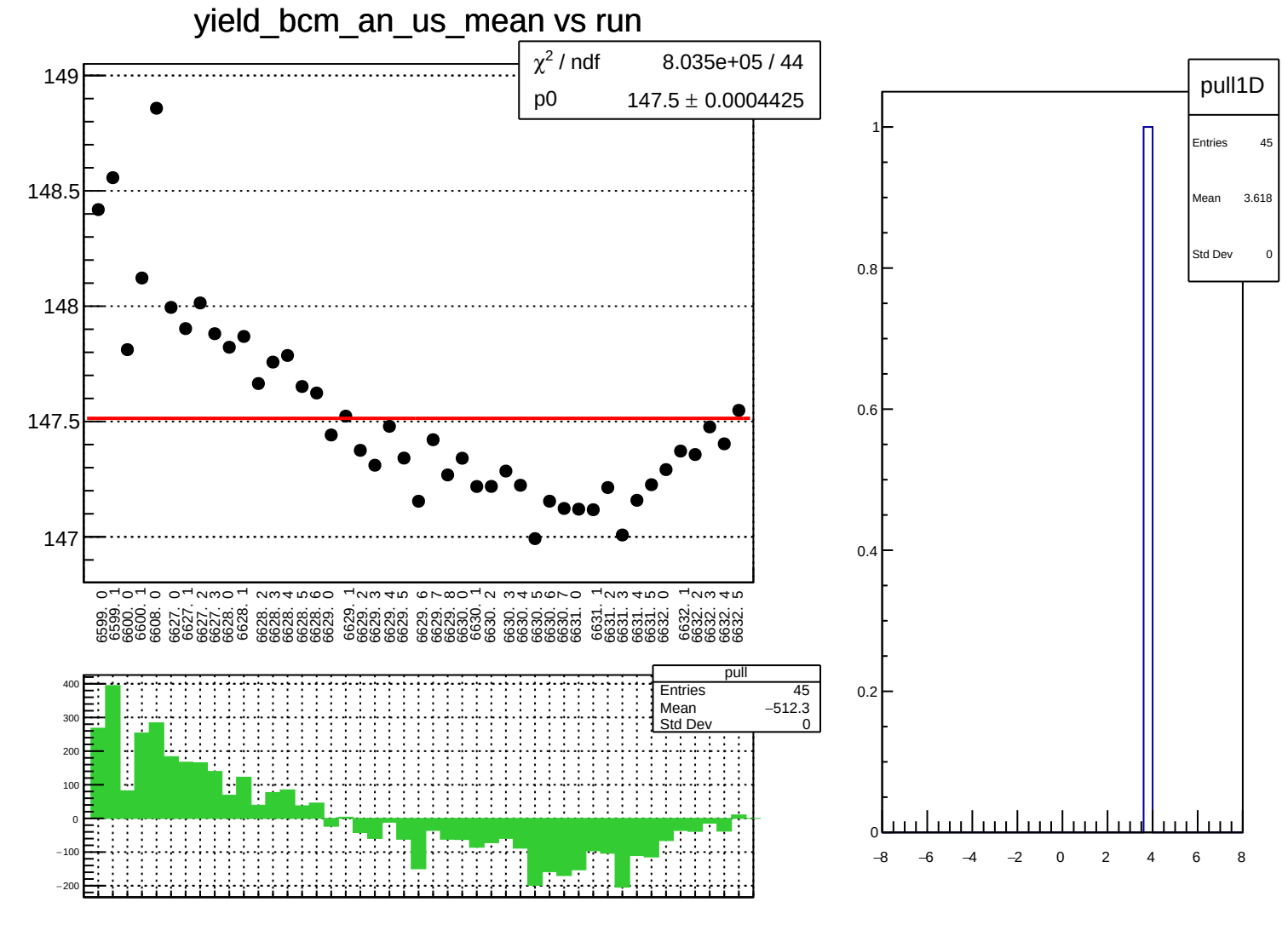

yield_bcm_an_ds_mean vs run
χ² / ndf 8.064e+05 / 44
p0 147.6 ± 0.000441
149
148.5
148
147.5
147
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −637.1
Std Dev 0
400
300
200
100
0
−100
−200
pull1D
Entries 45
Mean −5.727
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

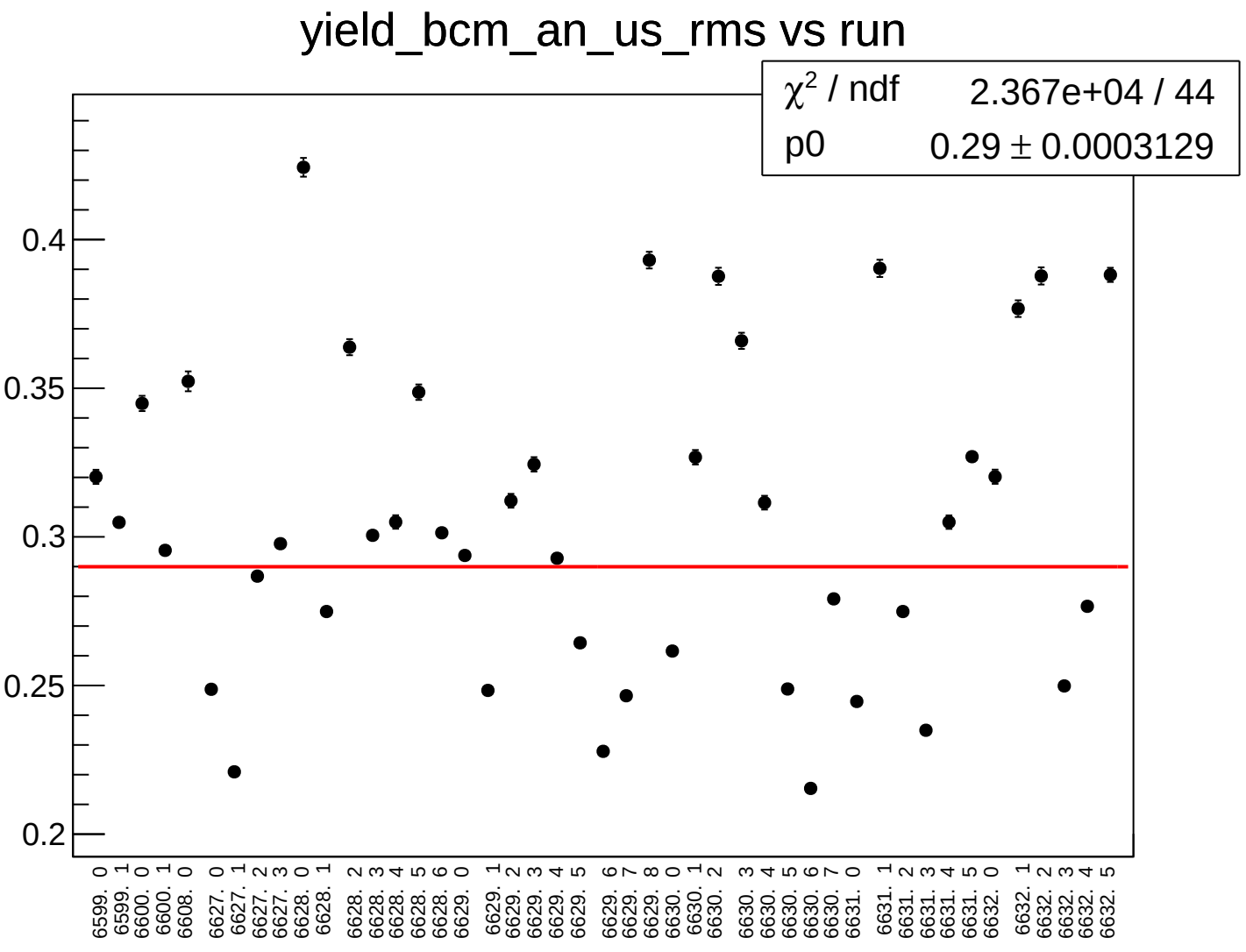

yield_bcm_an_ds_rms vs run
χ² / ndf 2.335e+04 / 44
p0 0.289 ± 0.0003118
0.45
0.4
0.35
0.3
0.25
0.2
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


yield_bcm_an_ds3_mean vs run
χ² / ndf 8.28e+05 / 44
p0 147.8 ± 0.0004436
149.2
149
148.8
148.6
148.4
148.2
148
147.8
147.6
147.4
147.2
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −745.8
Std Dev 0
400
300
200
100
0
−100
−200


pull1D
Entries 45
Mean −7.797
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 2.339e+04 / 44
p0 0.2907 ± 0.0003136
0.45
0.4
0.35
0.3
0.25
0.2
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


yield_bcm_an_us_mean vs run
χ² / ndf 8.035e+05 / 44
p0 147.5 ± 0.0004425
149
148.5
148
147.5
147
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −512.3
Std Dev 0
400
300
200
100
0
−100
−200
pull1D
Entries 45
Mean 3.618
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 2.367e+04 / 44
p0 0.29 ± 0.0003129
0.4
0.35
0.3
0.25
0.2
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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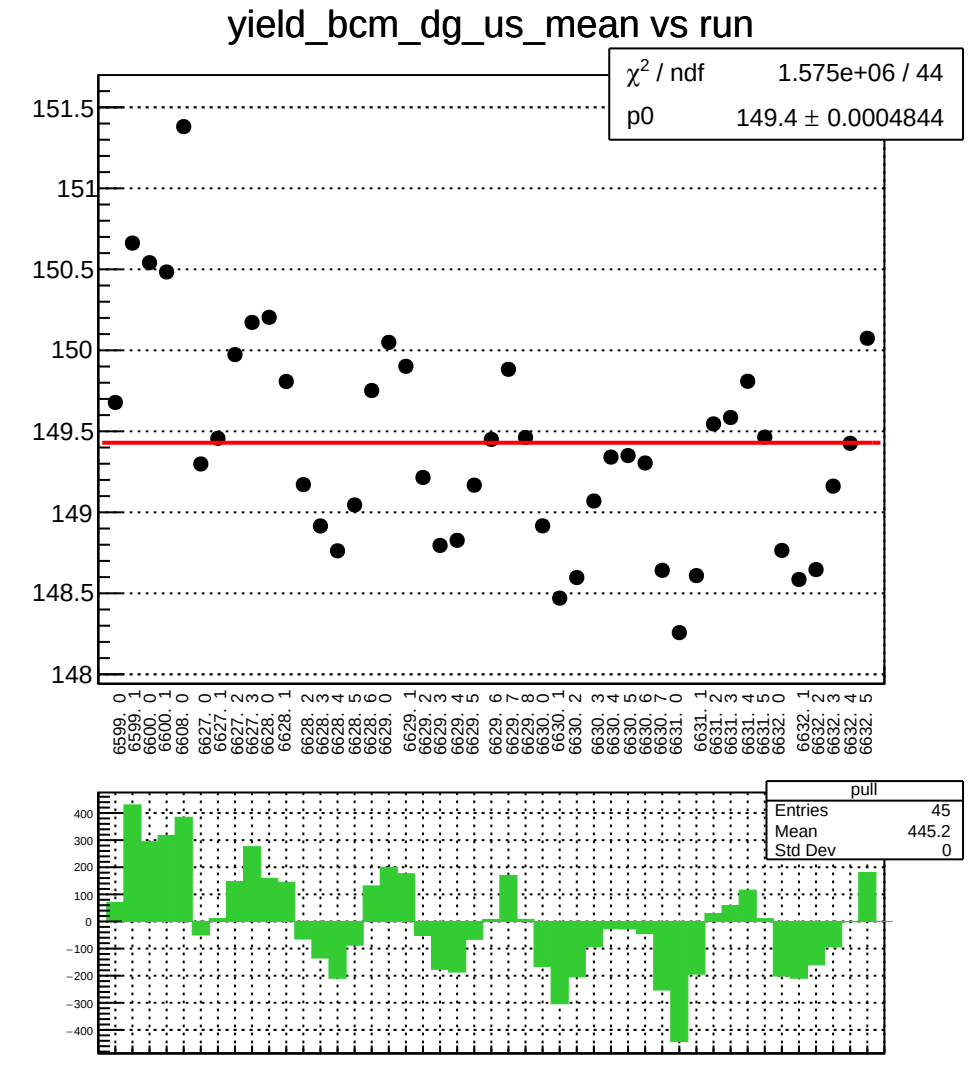
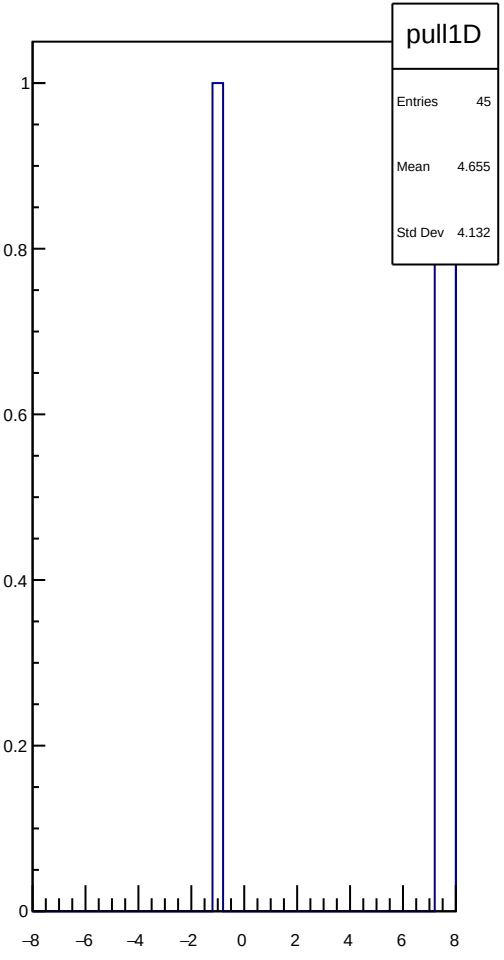
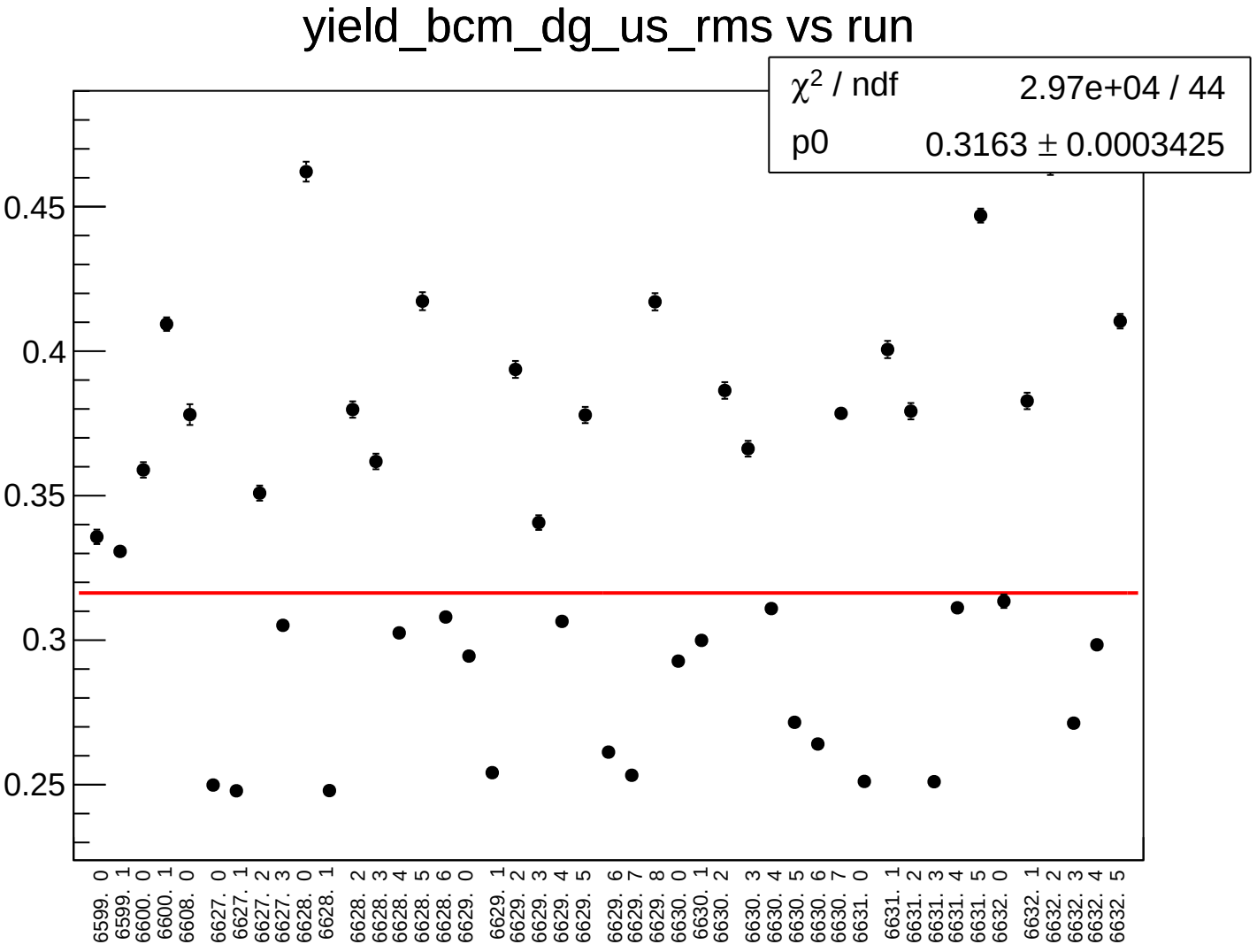
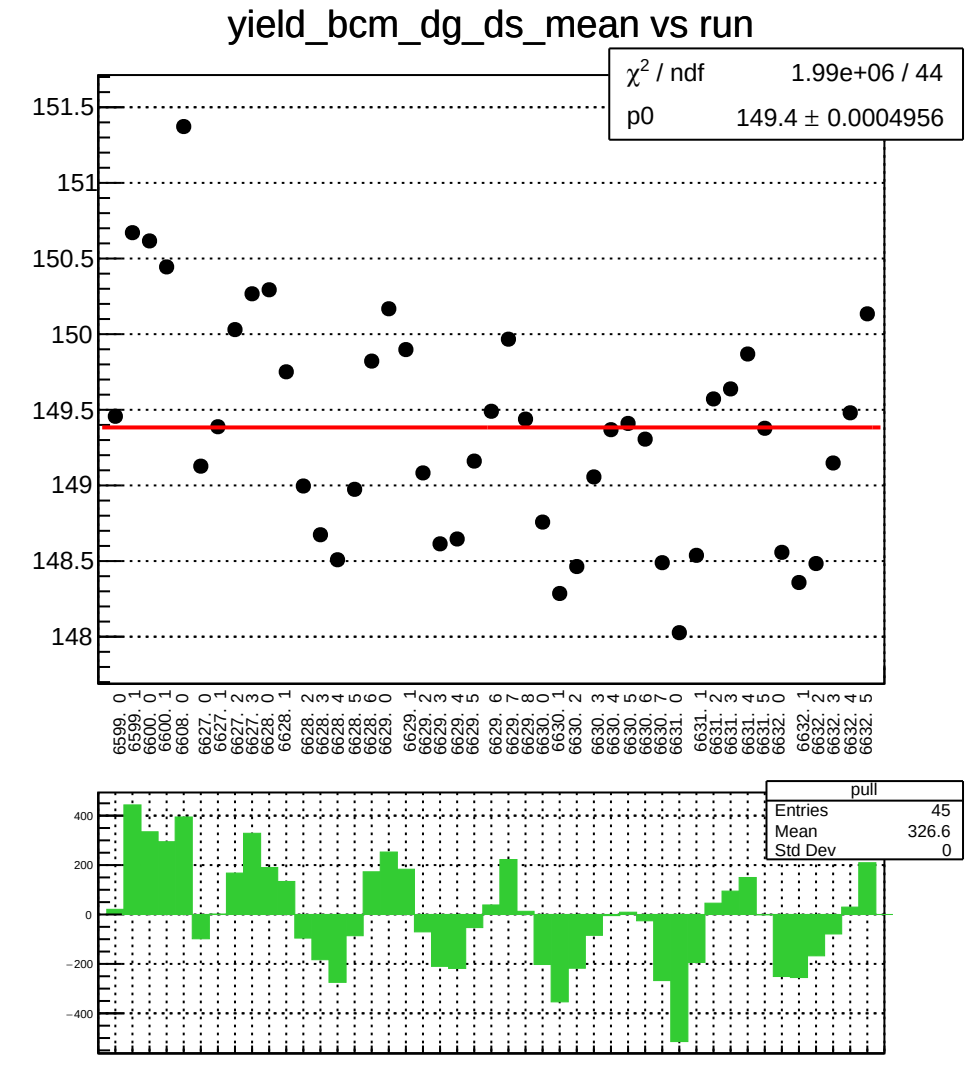
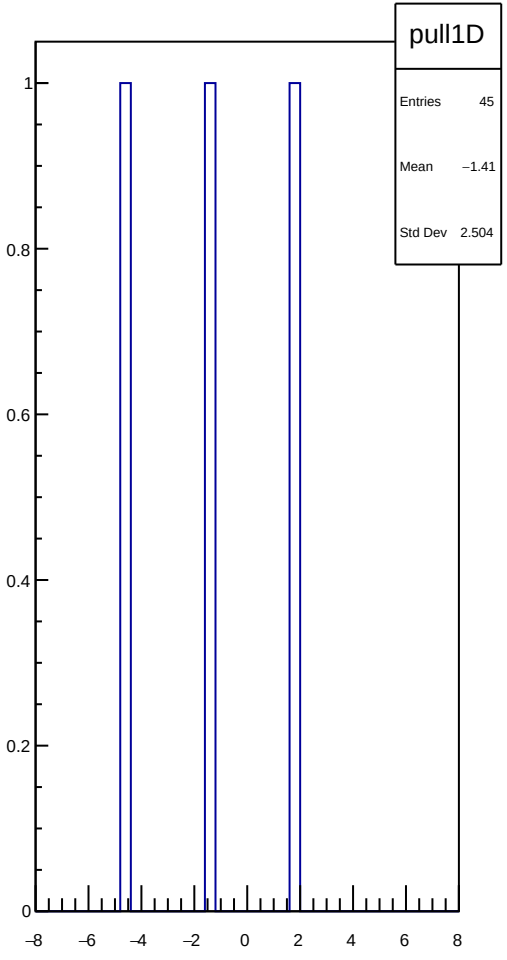
6632. 2
6632. 3
6632. 4
6632. 5

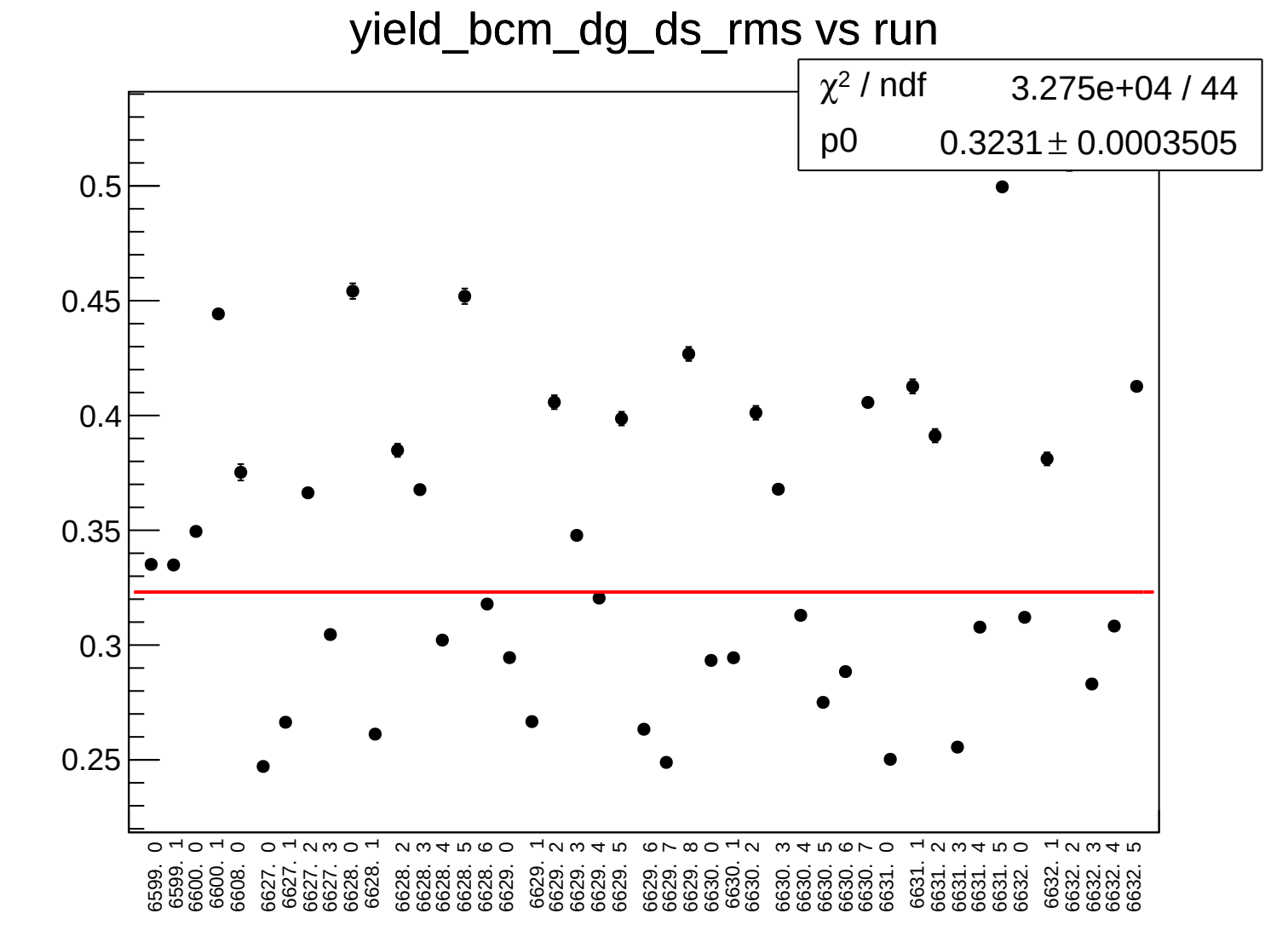

yield_bcm_dg_us_mean vs run
χ² / ndf 1.575e+06 / 44
p0 149.4 ± 0.0004844
151.5
151
150.5
150
149.5
149
148.5
148
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 445.2
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

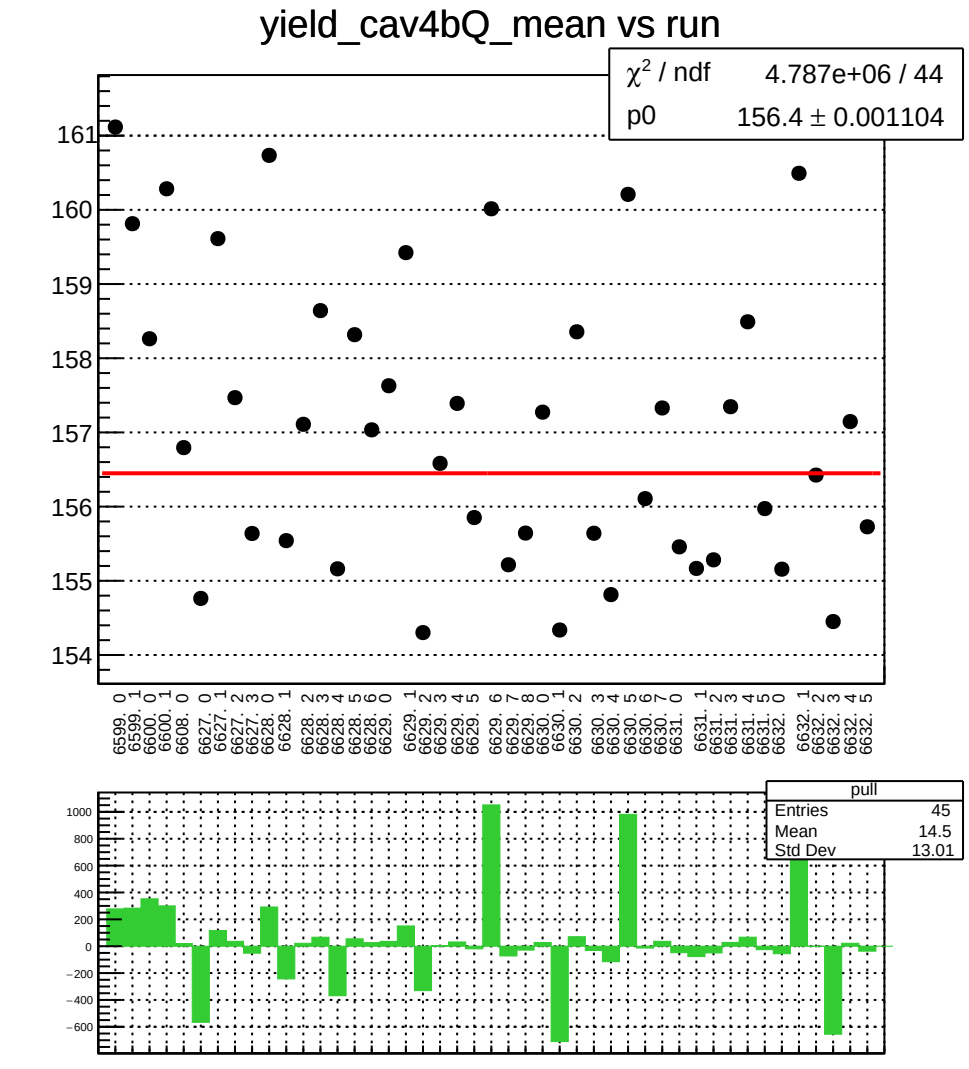

pull1D
Entries 45
Mean 4.655
Std Dev 4.132
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

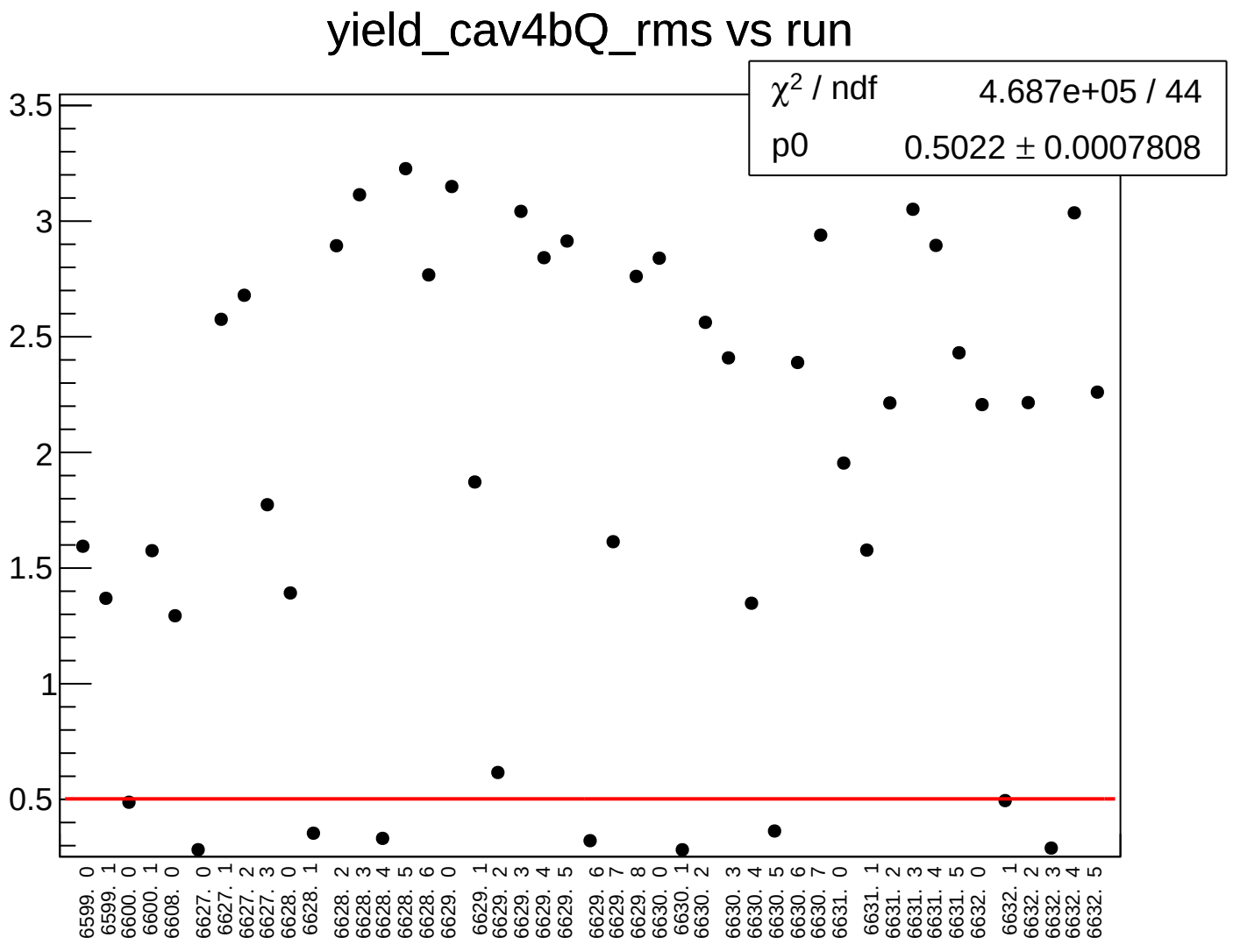

yield_bcm_dg_us_rms vs run
χ² / ndf 2.97e+04 / 44
p0 0.3163 ± 0.0003425
0.45
0.4
0.35
0.3
0.25
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

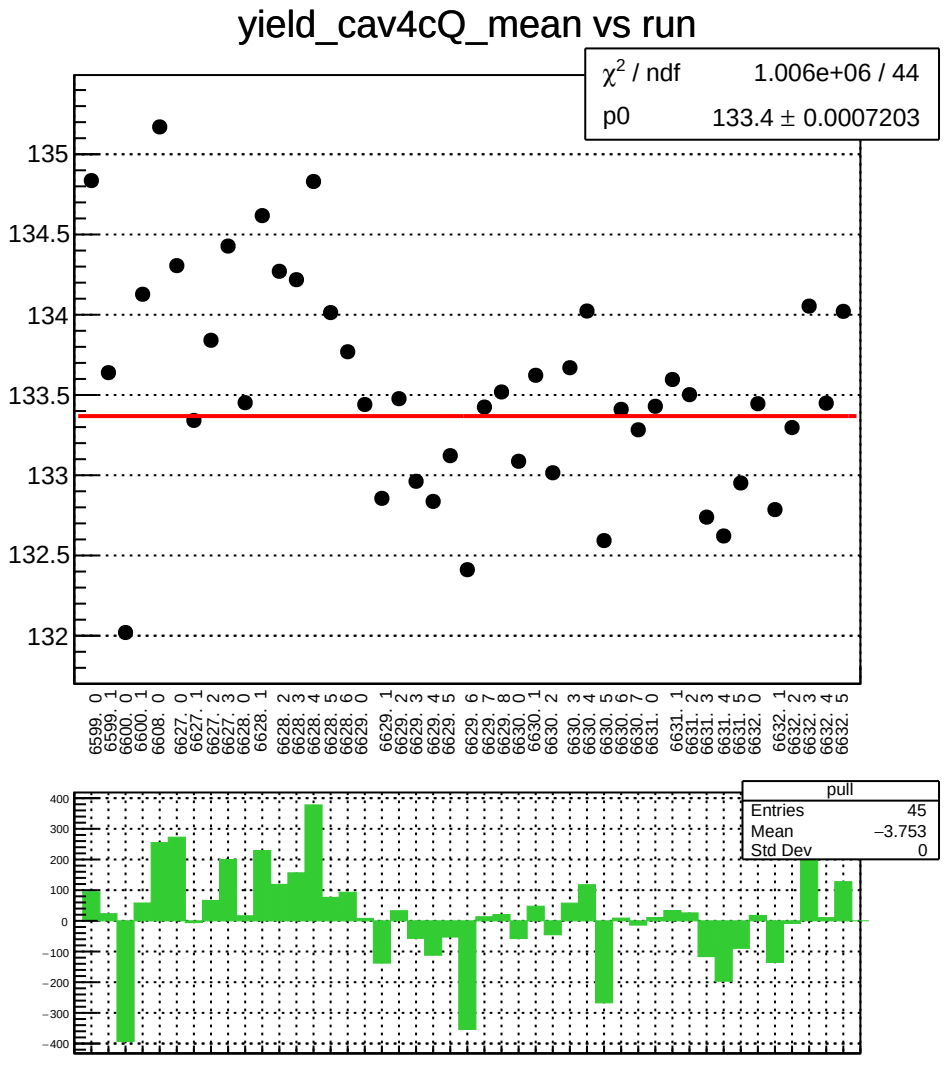

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.99e+06 / 44
p0 149.4 ± 0.0004956
151.5
151
150.5
150
149.5
149
148.5
148
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 326.6
Std Dev 0
400
200
0
−200
−400

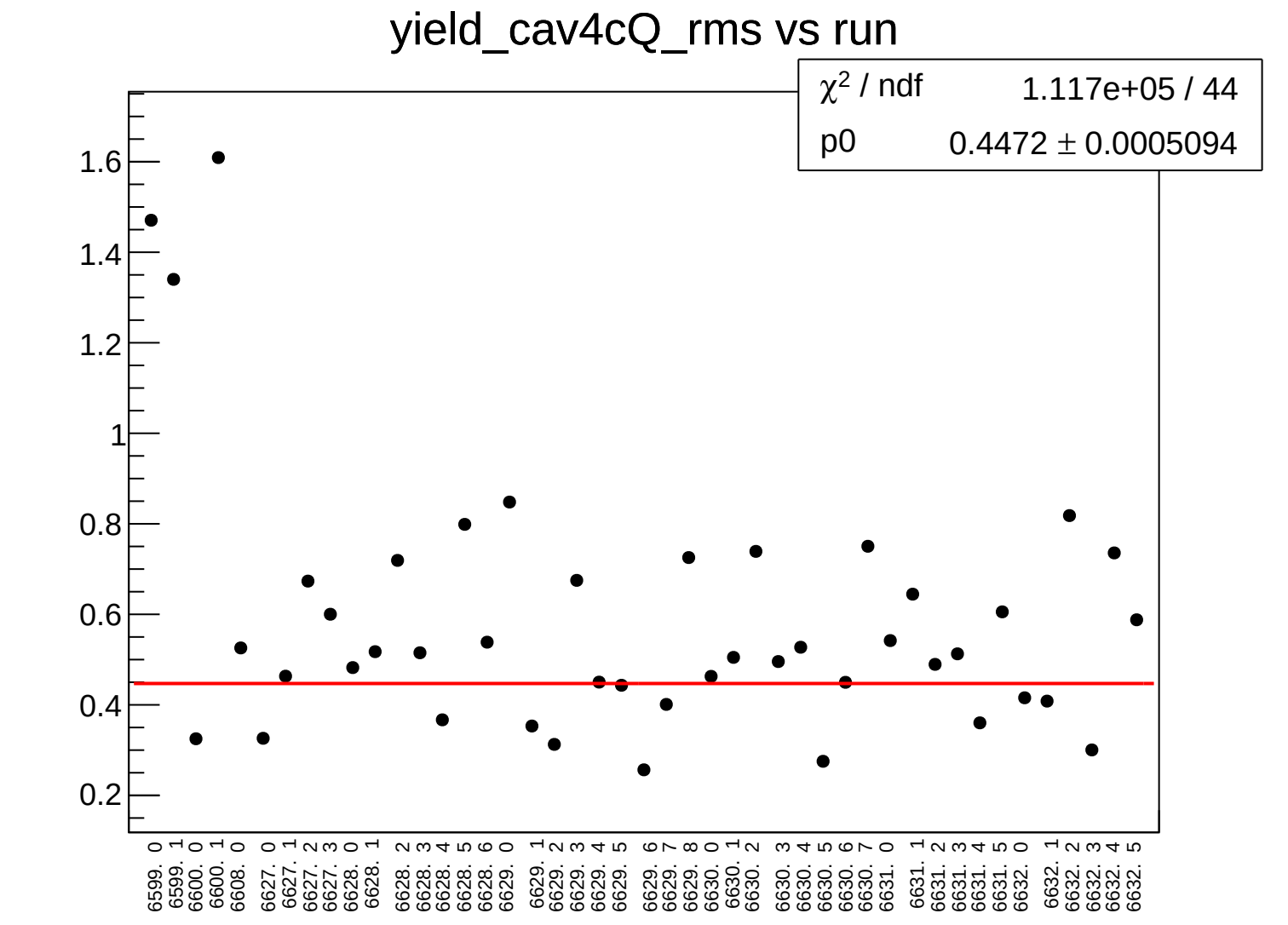

pull1D
Entries 45
Mean −1.41
Std Dev 2.504
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

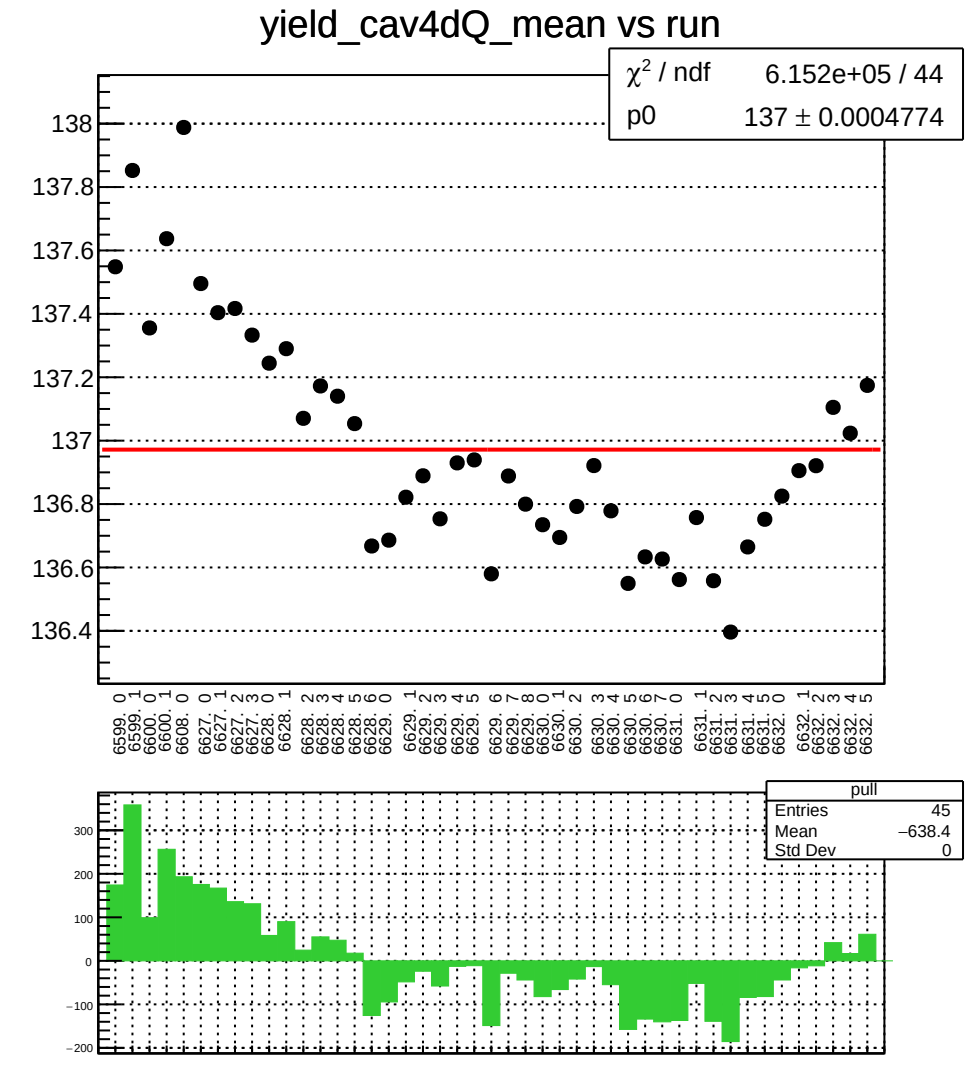

yield_bcm_dg_ds_rms vs run
χ² / ndf 3.275e+04 / 44
p0 0.3231 ± 0.0003505
0.5
0.45
0.4
0.35
0.3
0.25
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

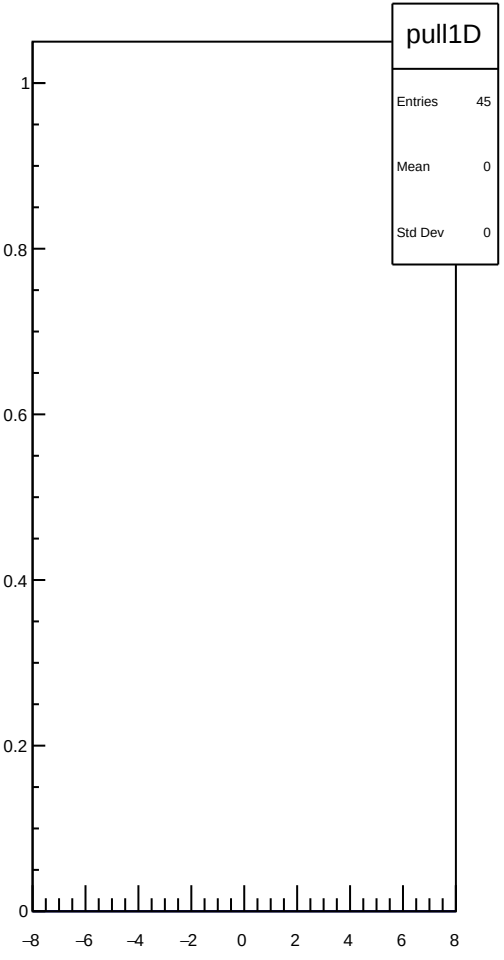

yield_cav4bQ_mean vs run
χ² / ndf 4.787e+06 / 44
p0 156.4 ± 0.001104
161
160
159
158
157
156
155
154
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 14.5
Std Dev 13.01
1000
800
600
400
200
0
−200
−400
−600
pull1D
Entries 45
Mean 1.568
Std Dev 2.605
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

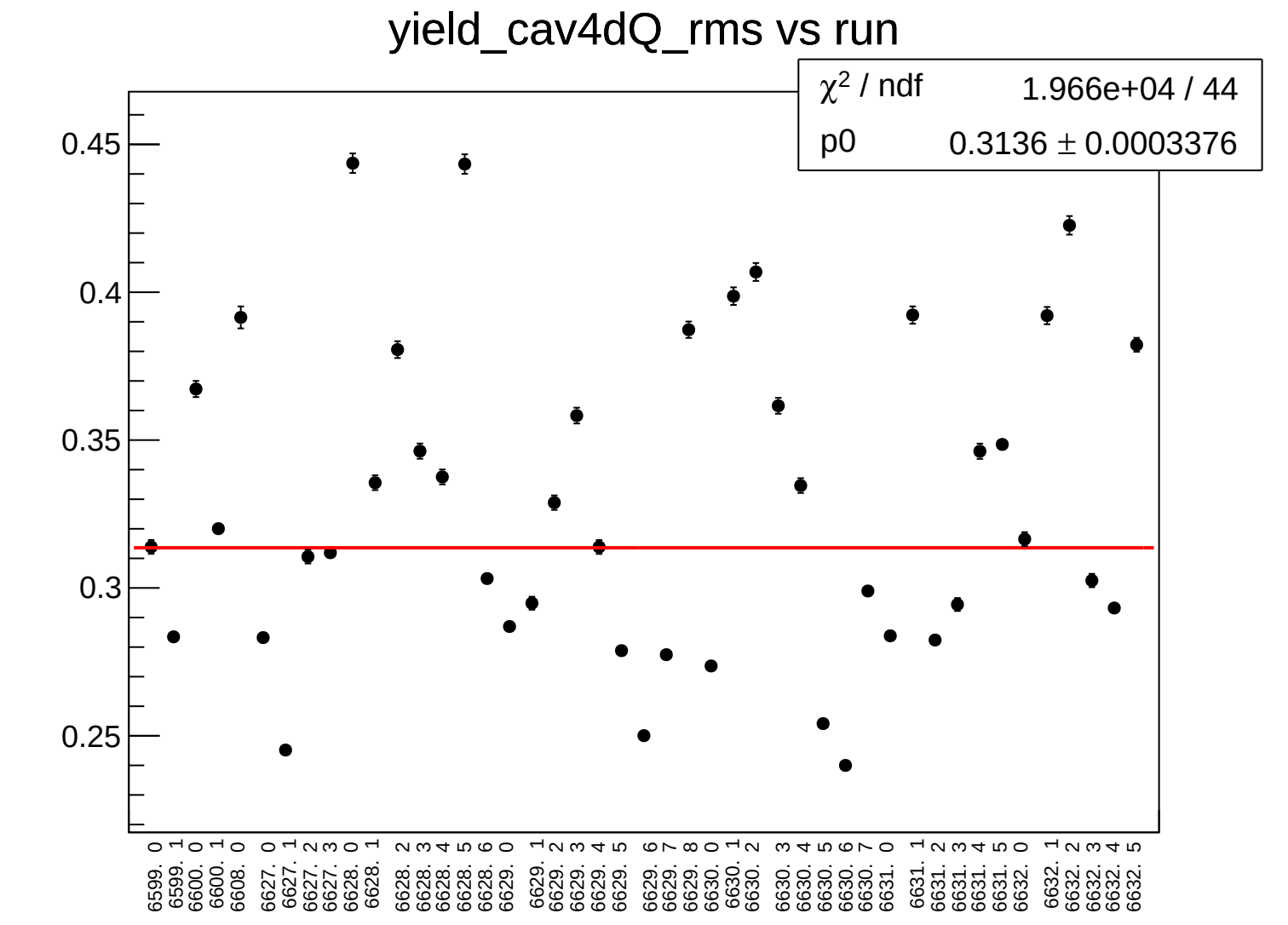

yield_cav4bQ_rms vs run
χ² / ndf 4.687e+05 / 44
p0 0.5022 ± 0.0007808
3.5
3
2.5
2
1.5
1
0.5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

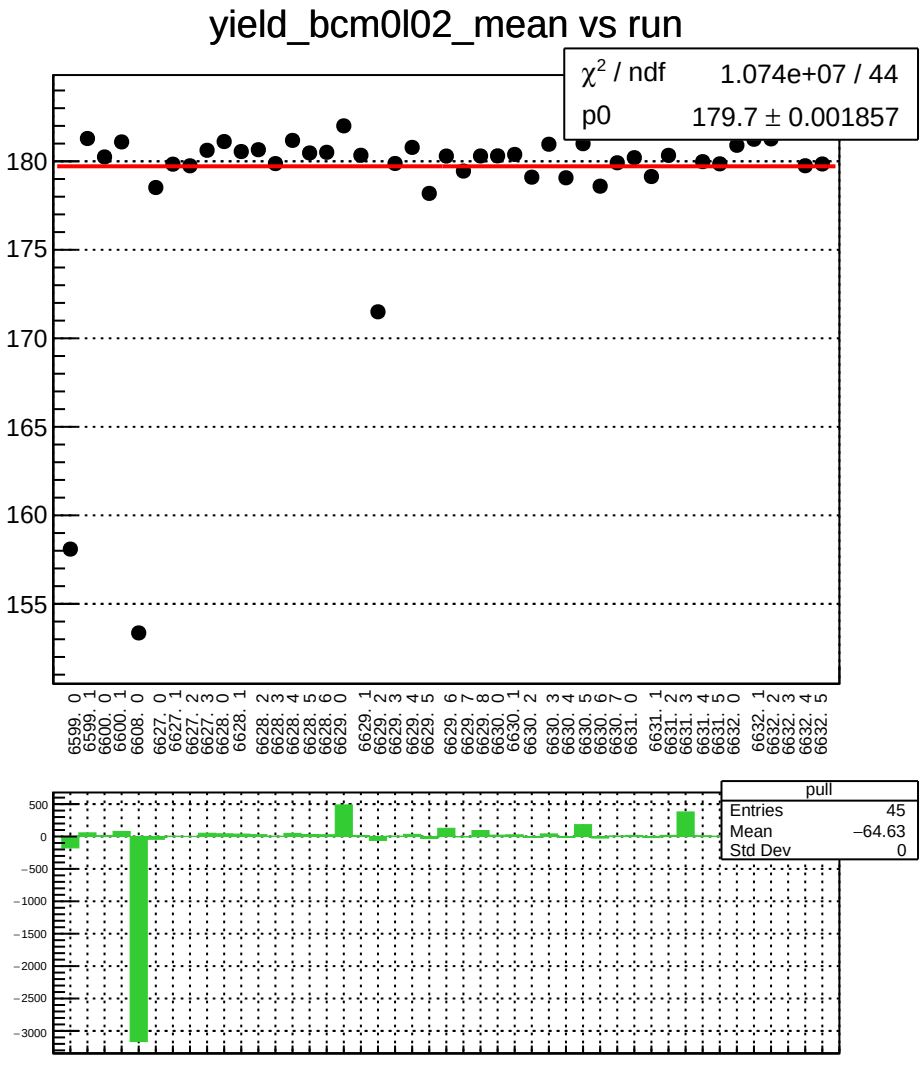

yield_cav4cQ_mean vs run
χ² / ndf 1.006e+06 / 44
p0 133.4 ± 0.0007203
135
134.5
134
133.5
133
132.5
132
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −3.753
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400
pull1D
Entries 45
Mean −5.524
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

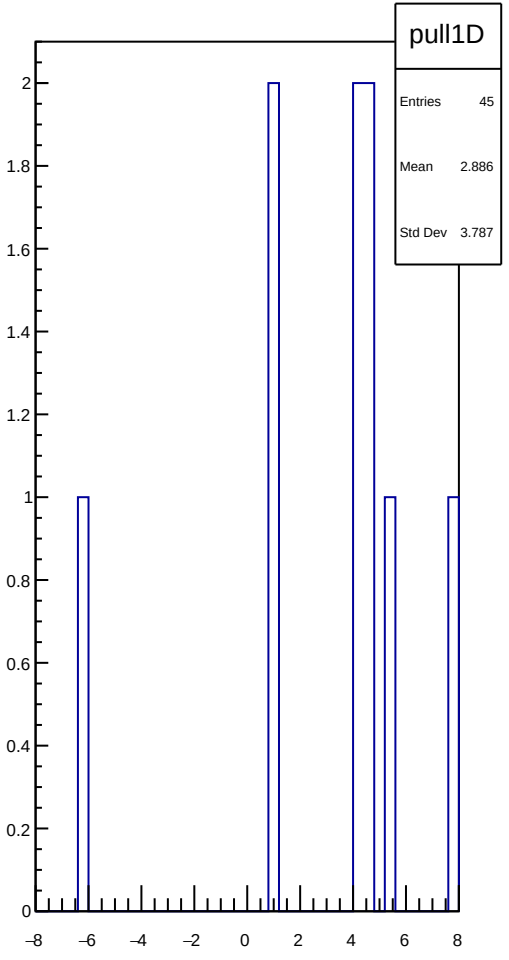

yield_cav4cQ_rms vs run
χ² / ndf 1.117e+05 / 44
p0 0.4472 ± 0.0005094
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

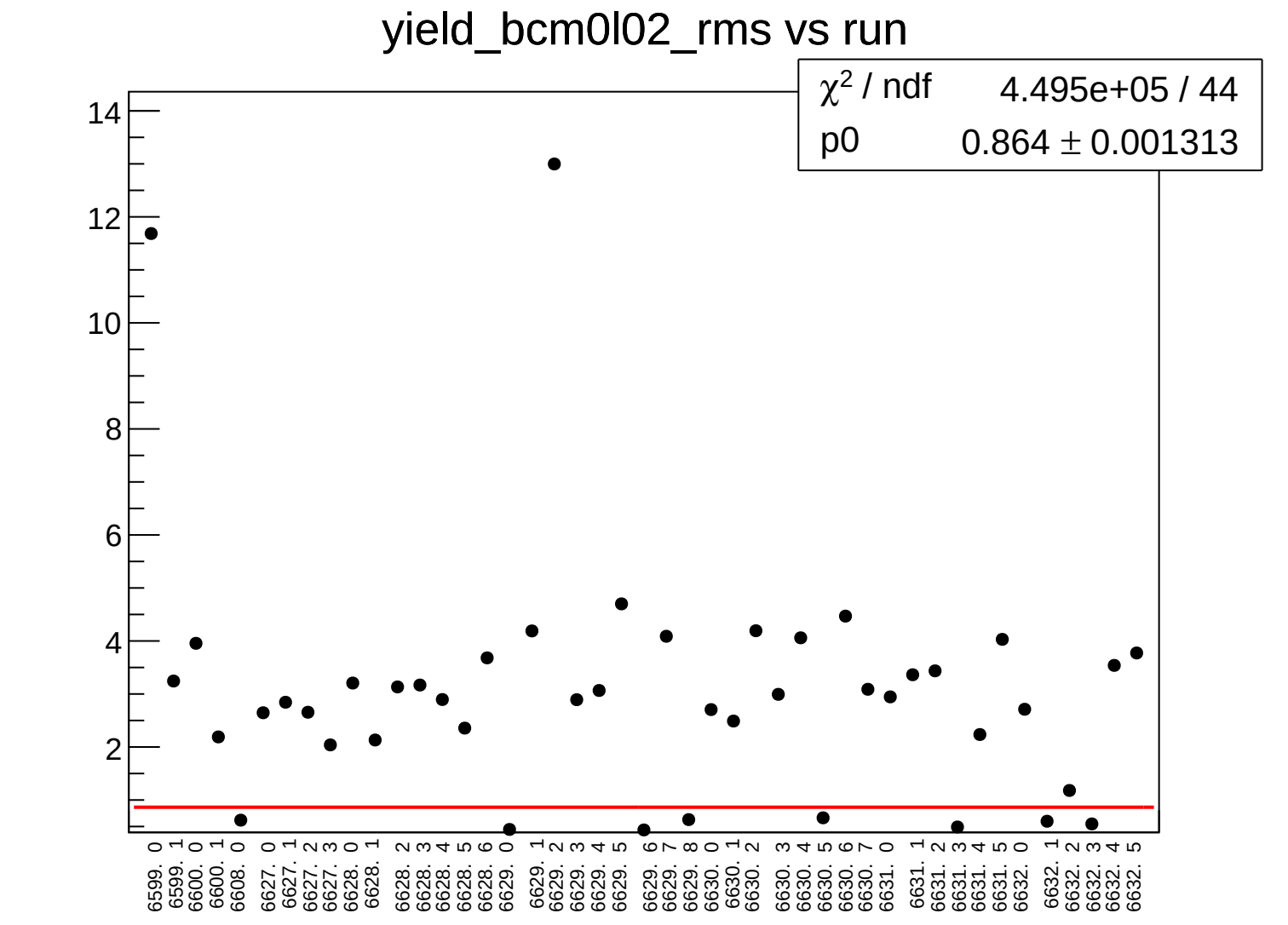

yield_cav4dQ_mean vs run
χ² / ndf 6.152e+05 / 44
p0 137 ± 0.0004774
138
137.8
137.6
137.4
137.2
137
136.8
136.6
136.4
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −638.4
Std Dev 0
300
200
100
0
−100
−200

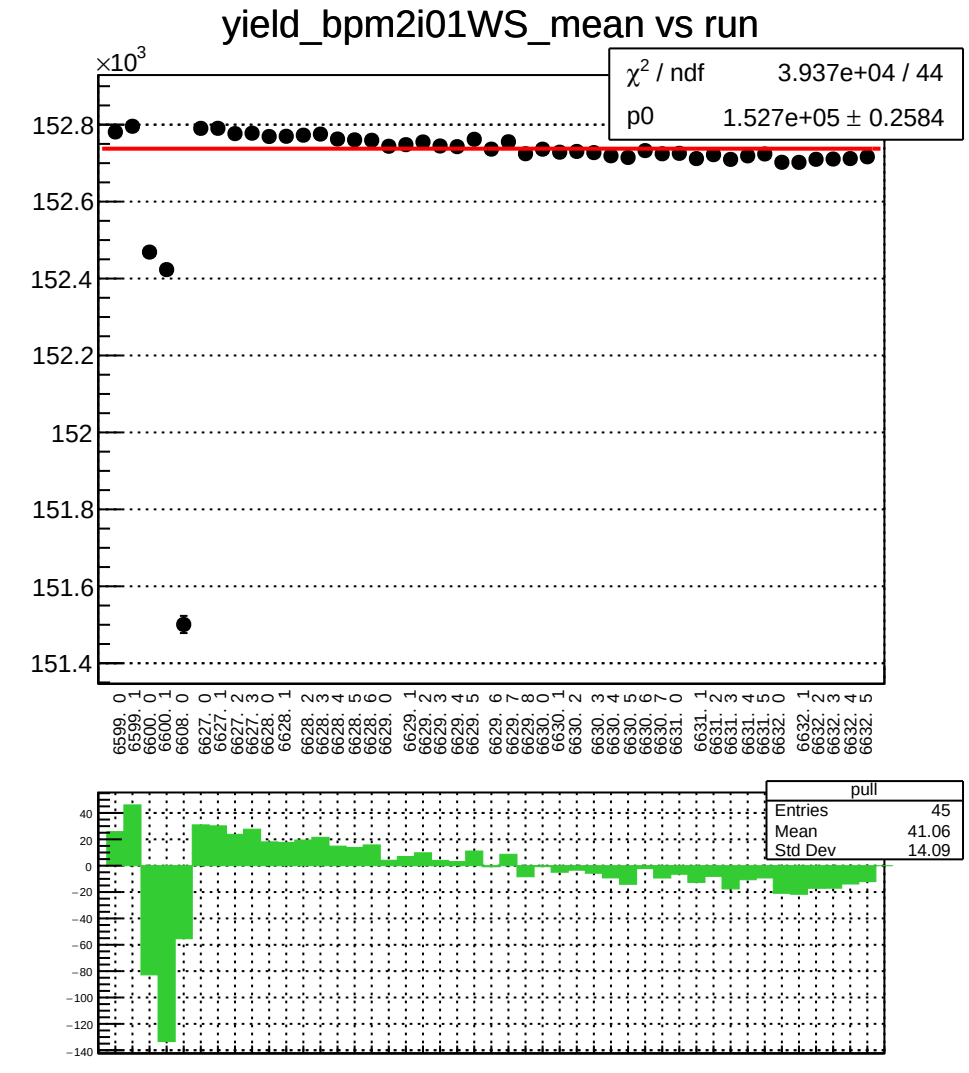

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

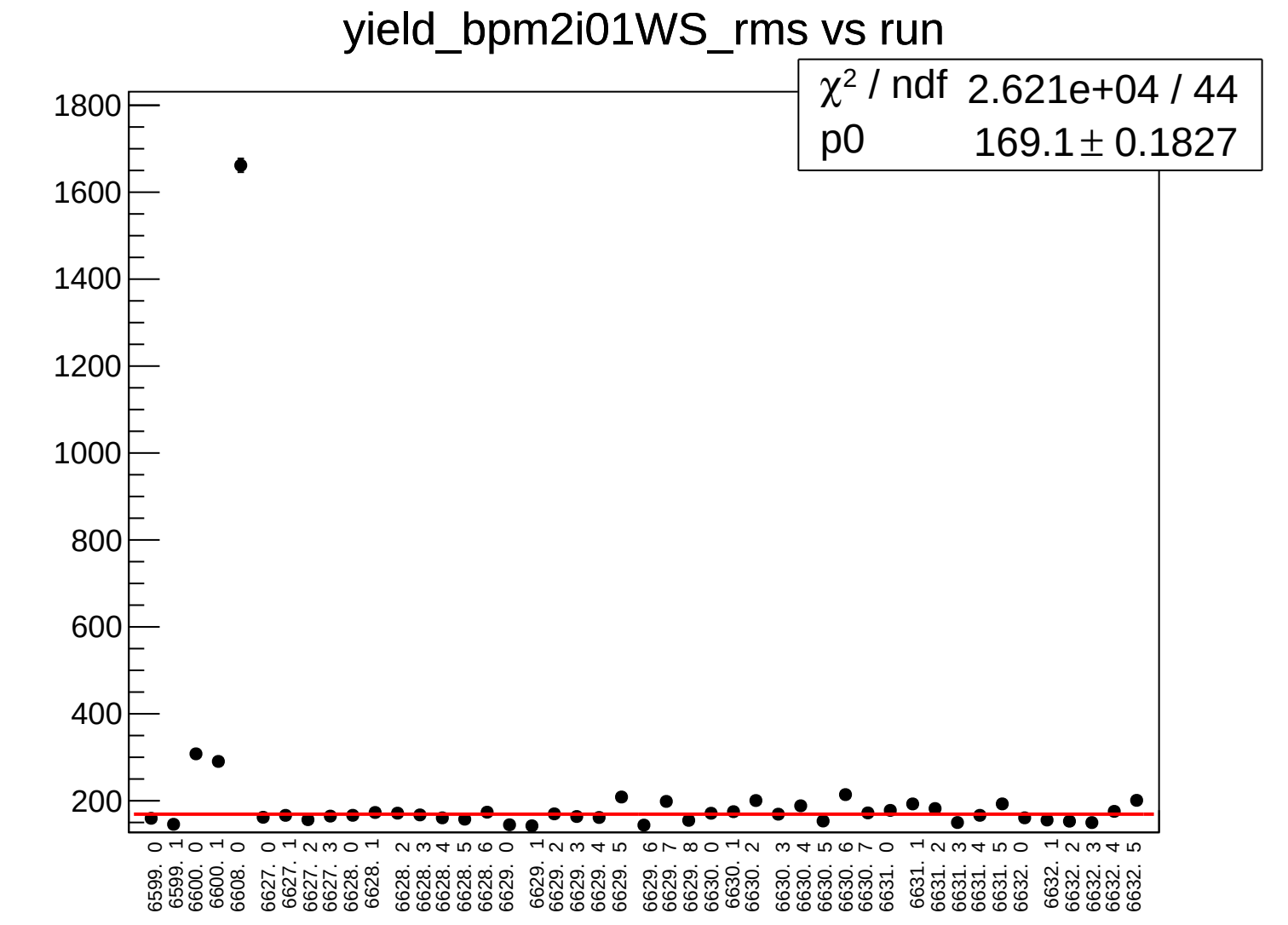

yield_cav4dQ_rms vs run
χ² / ndf 1.966e+04 / 44
p0 0.3136 ± 0.0003376
0.45
0.4
0.35
0.3
0.25
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

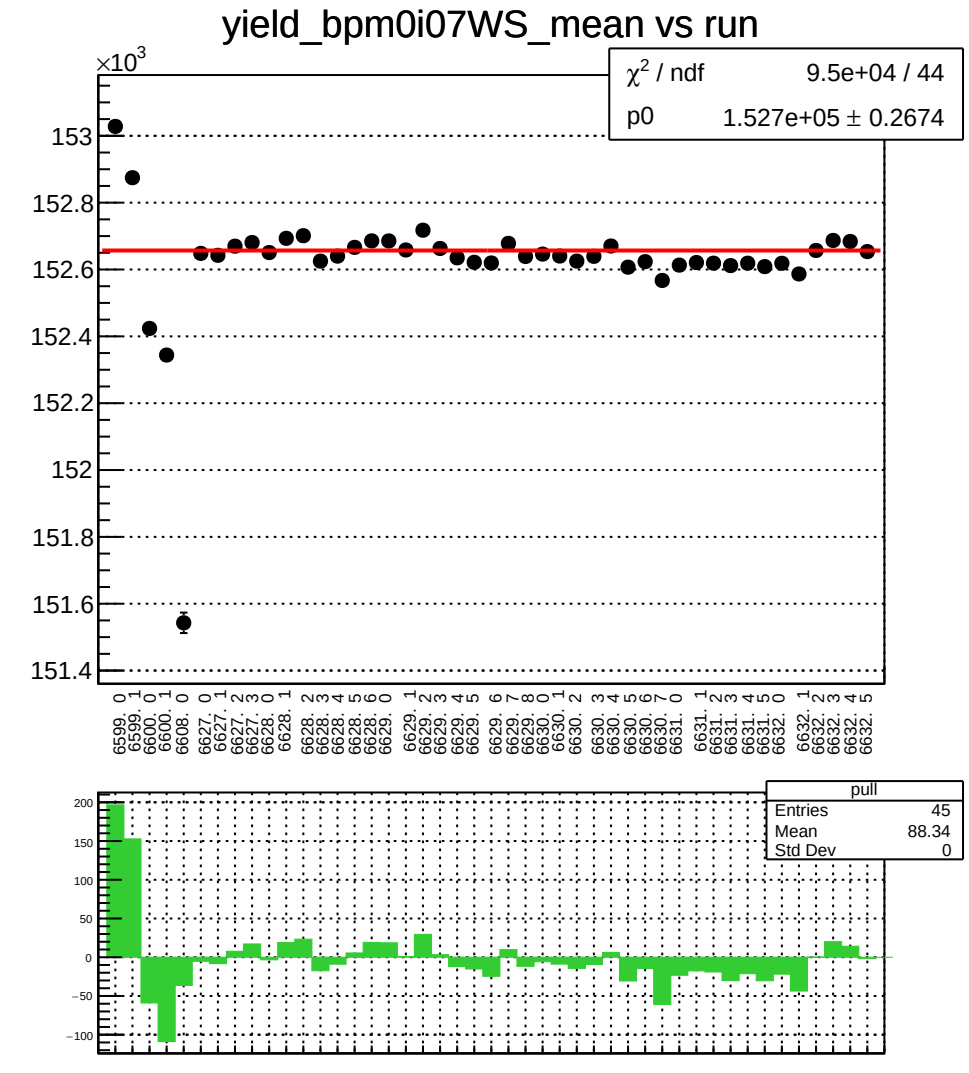

yield_bcm0l02_mean vs run
χ² / ndf 1.074e+07 / 44
p0 179.7 ± 0.001857
180
175
170
165
160
155
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −64.63
Std Dev 0
500
0
−500
−1000
−1500
−2000
−2500
−3000

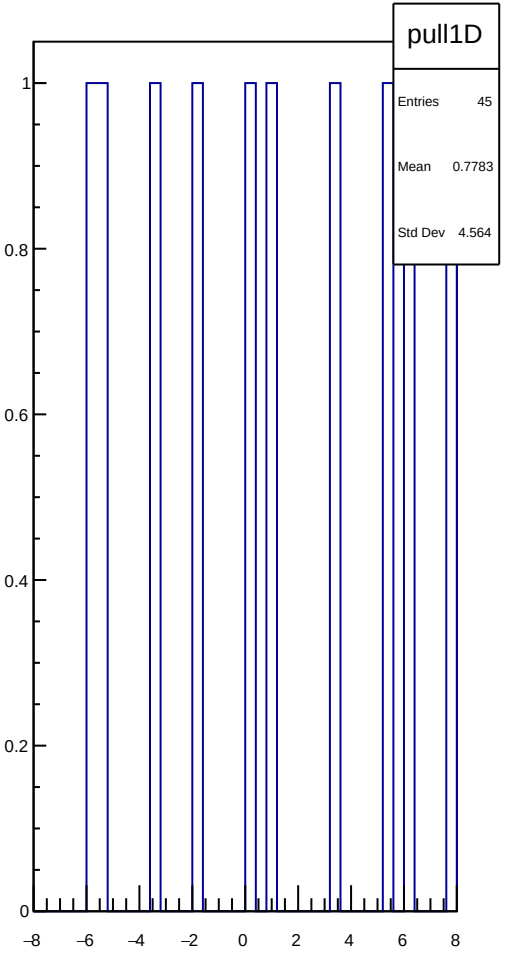

pull1D
Entries 45
Mean 2.886
Std Dev 3.787
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

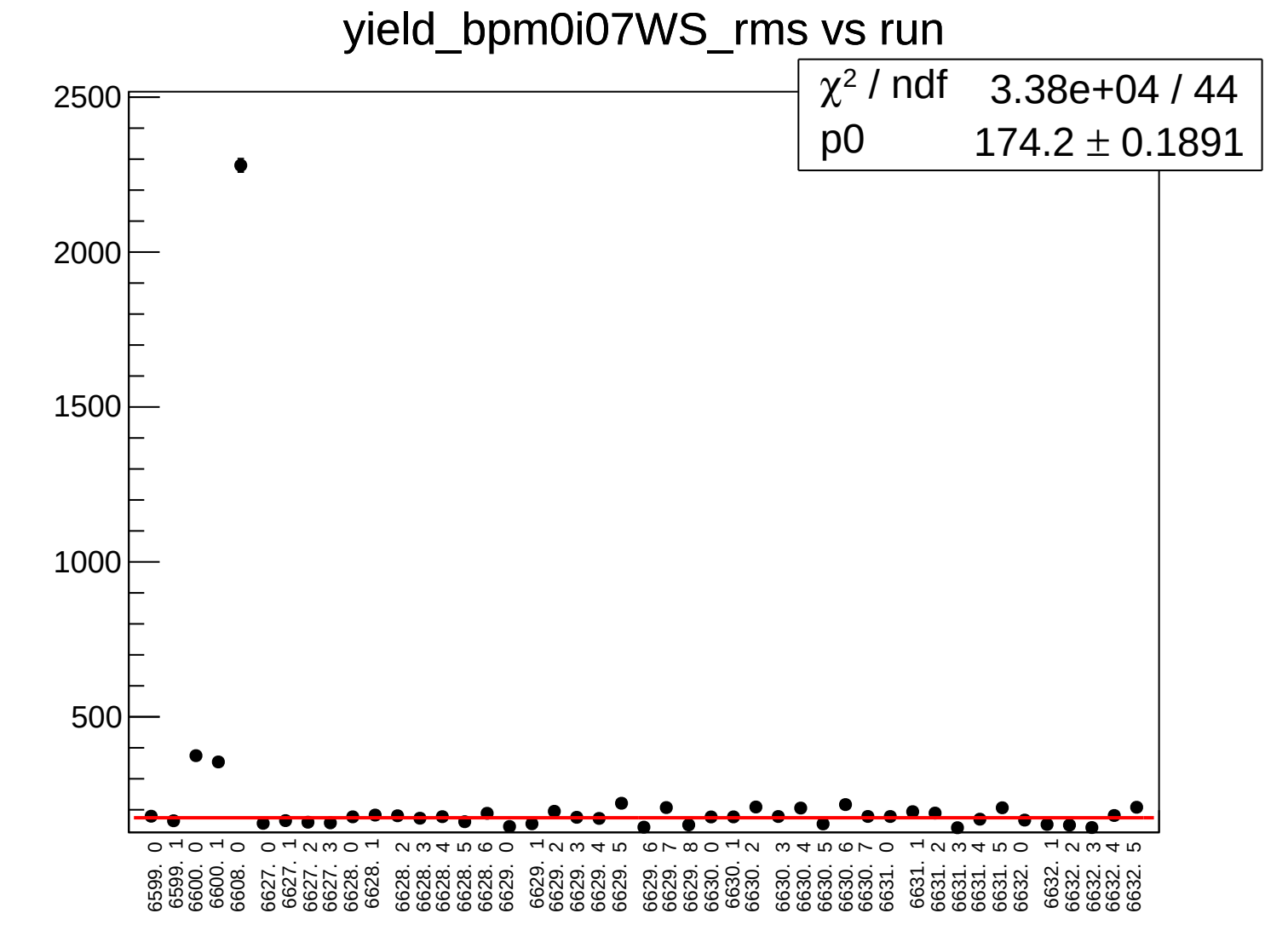

yield_bcm0l02_rms vs run
χ² / ndf 4.495e+05 / 44
p0 0.864 ± 0.001313
14
12
10
8
6
4
2
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

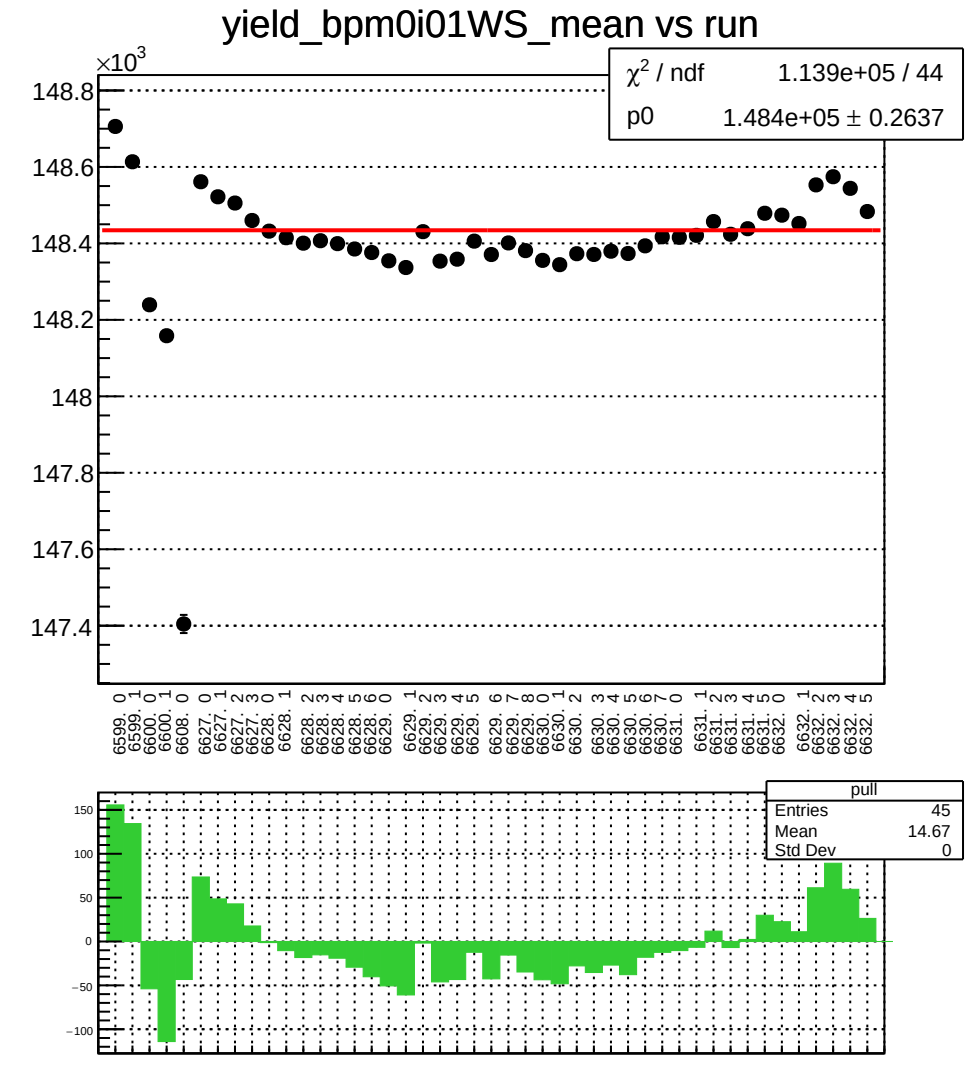

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 3.937e+04 / 44
p0 1.527e+05 ± 0.2584
152.8
152.6
152.4
152.2
152
151.8
151.6
151.4
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6628. 0
6629.
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 41.06
Std Dev 14.09
40
20
0
−20
−40
−60
−80
−100
−120
−140
pull1D
Entries 45
Mean −0.5457
Std Dev 4.315
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

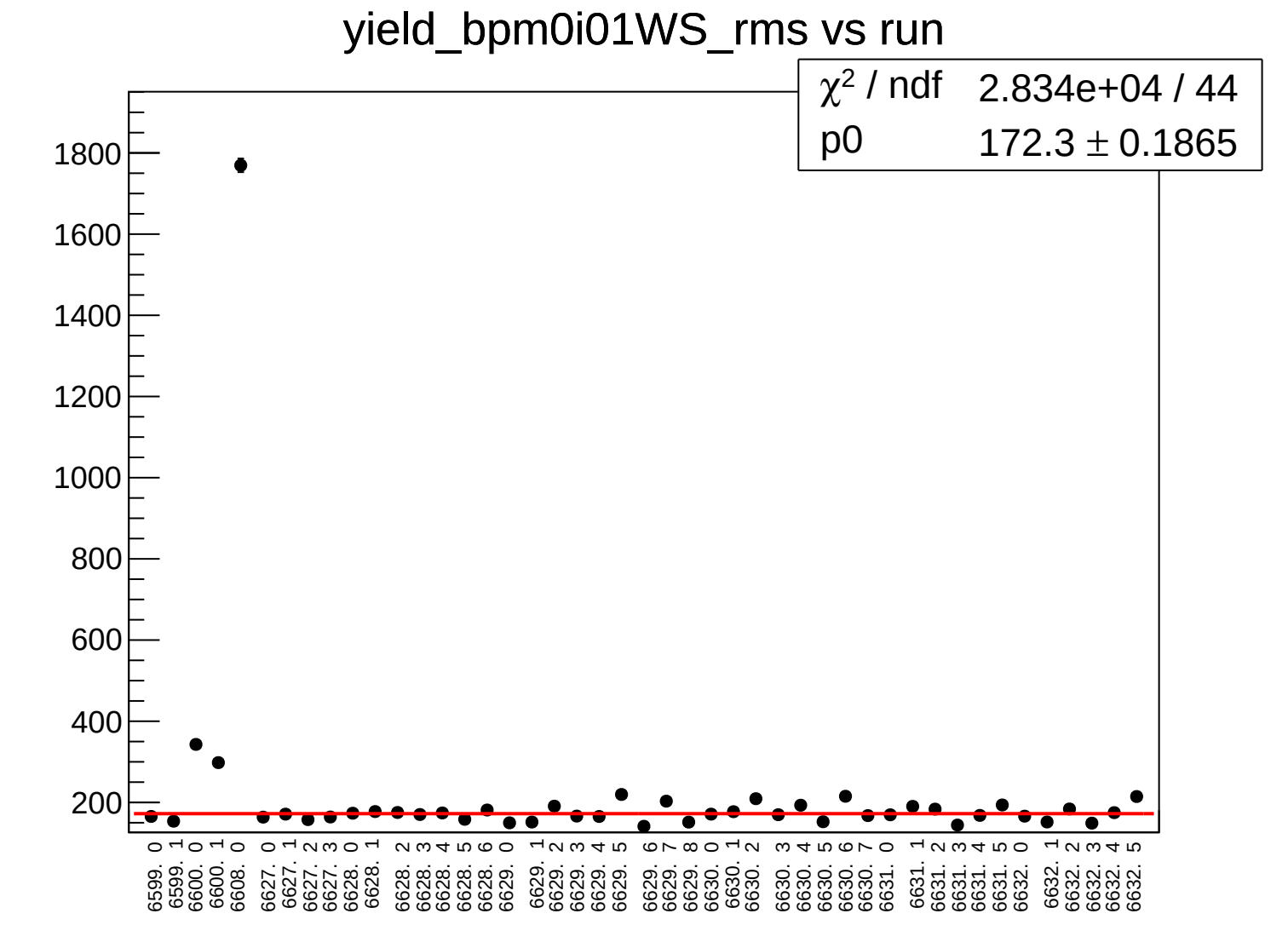

yield_bpm2i01WS_rms vs run
χ² / ndf 2.621e+04 / 44
p0 169.1 ± 0.1827
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

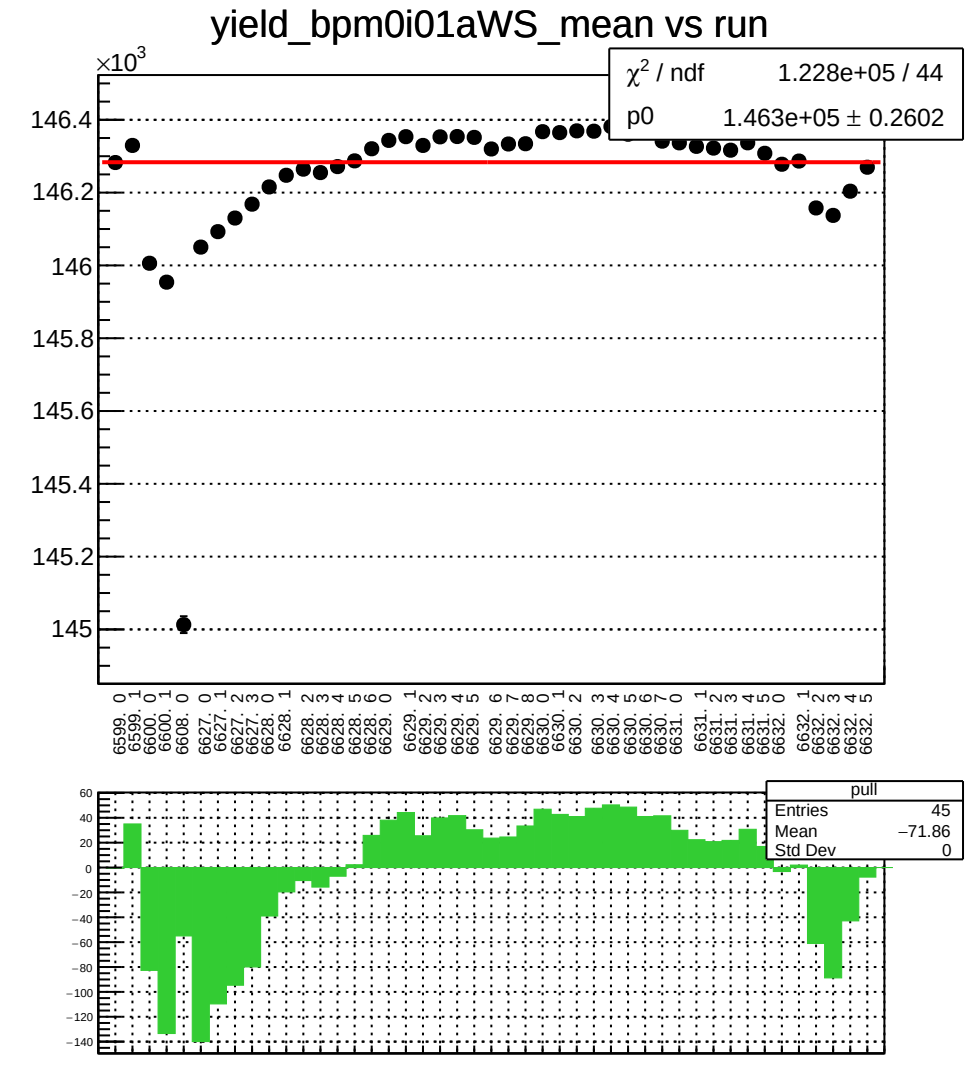

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 9.5e+04 / 44
p0 1.527e+05 ± 0.2674
153
152.8
152.6
152.4
152.2
152
151.8
151.6
151.4
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 88.34
Std Dev 0
200
150
100
50
0
−50
−100

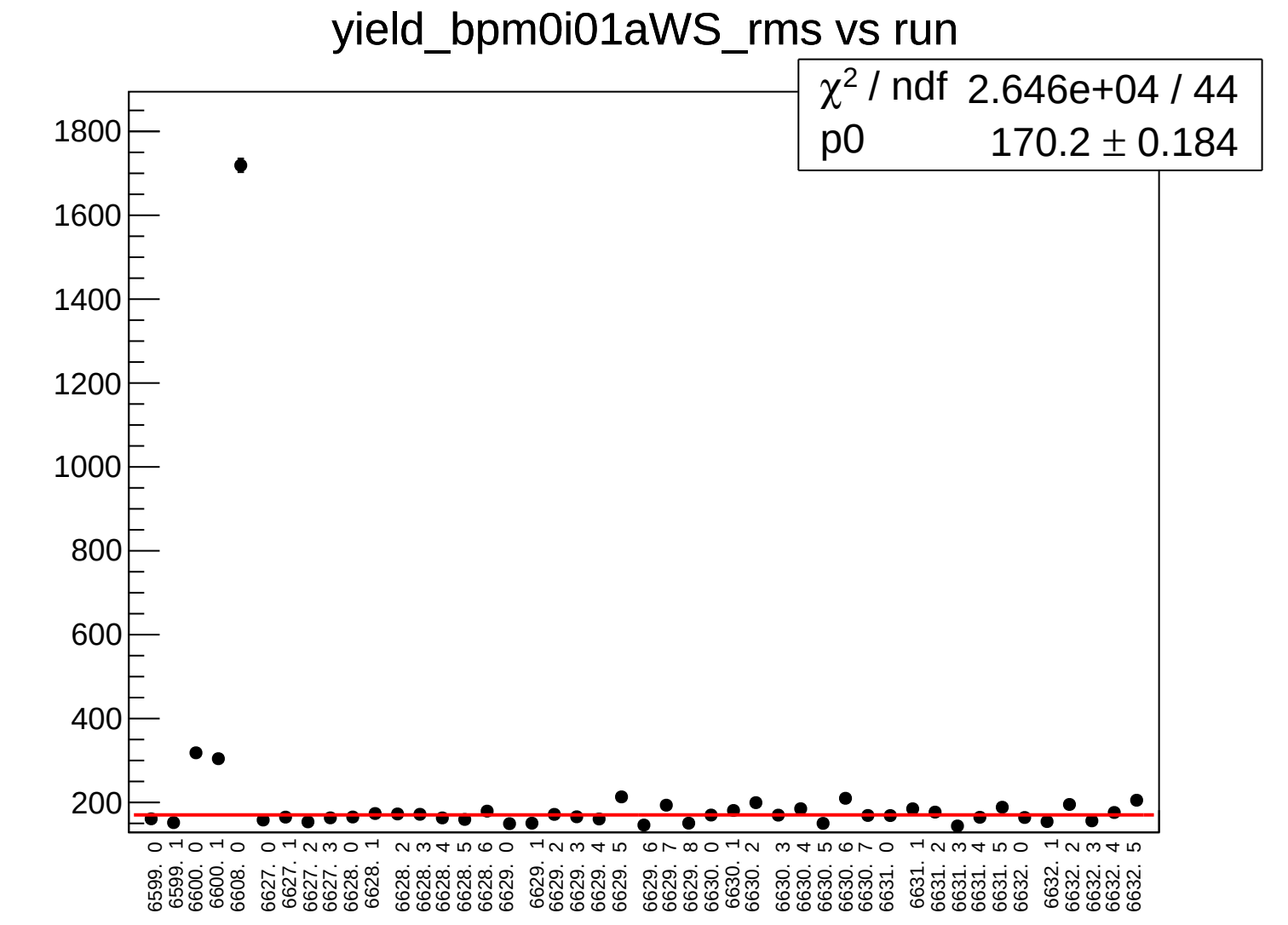

pull1D
Entries 45
Mean 0.7783
Std Dev 4.564
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

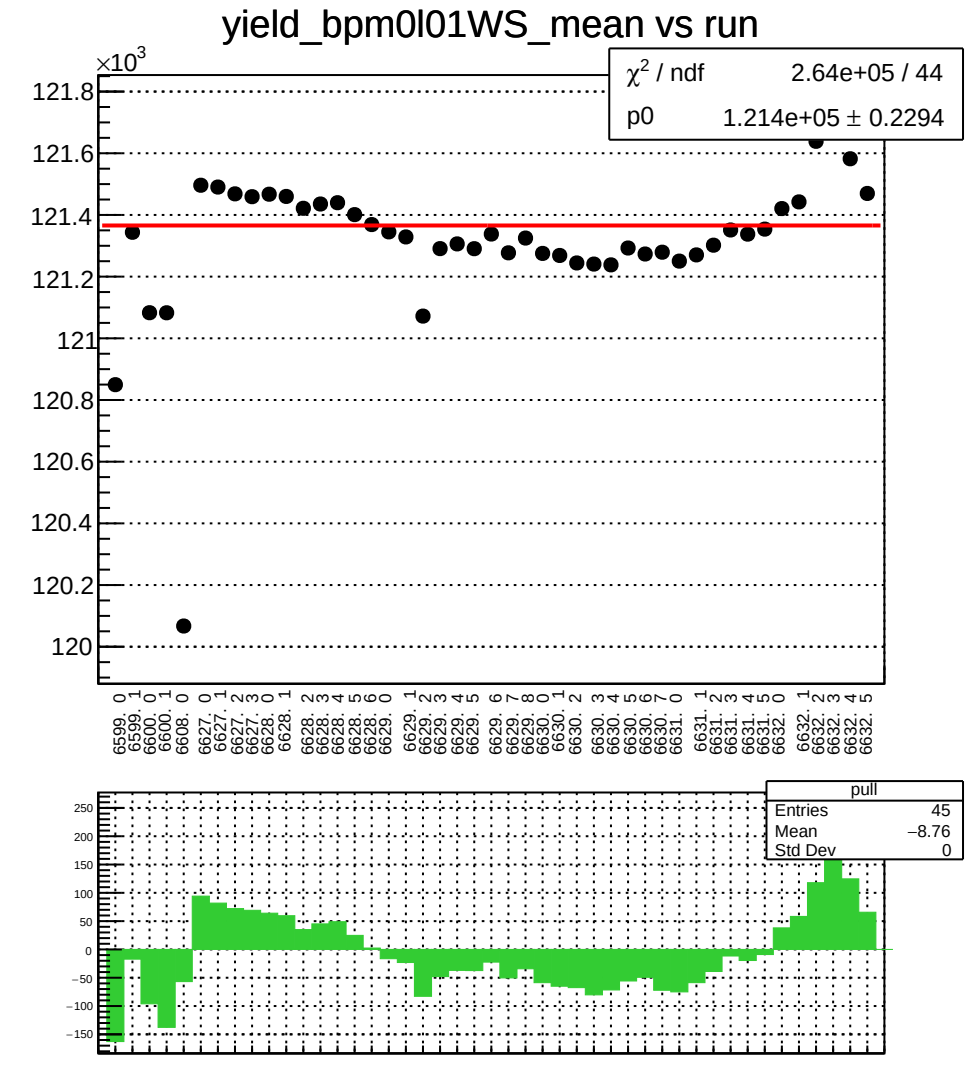

yield_bpm0i07WS_rms vs run
χ² / ndf 3.38e+04 / 44
p0 174.2 ± 0.1891
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

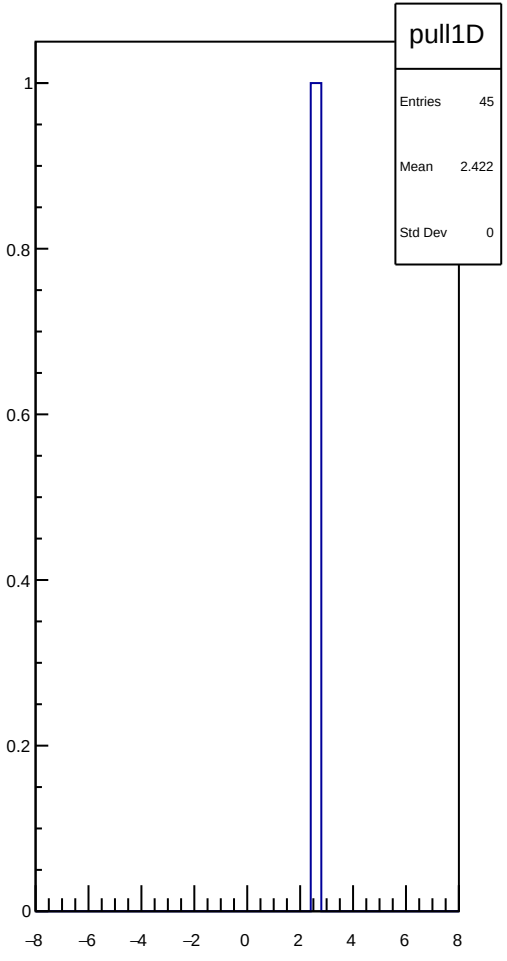

yield_bpm0i01WS_mean vs run
×10^3
χ^2 / ndf 1.139e+05 / 44
p0 1.484e+05 ± 0.2637
148.8
148.6
148.4
148.2
148
147.8
147.6
147.4
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 14.67
Std Dev 0
150
100
50
0
−50
−100
pull1D
Entries 45
Mean −2.834
Std Dev 3.486
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

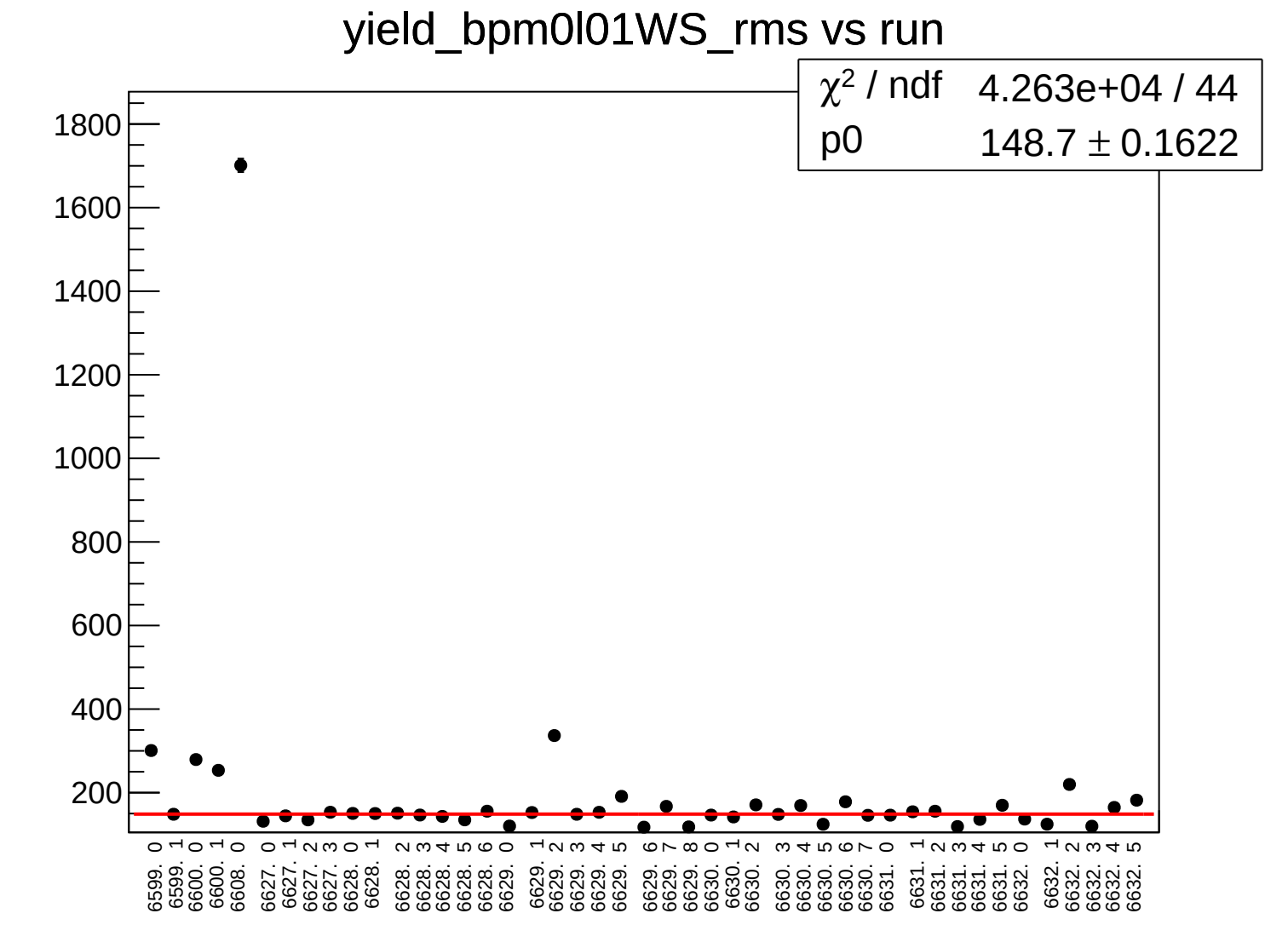

yield_bpm0i01WS_rms vs run
χ² / ndf 2.834e+04 / 44
p0 172.3 ± 0.1865
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

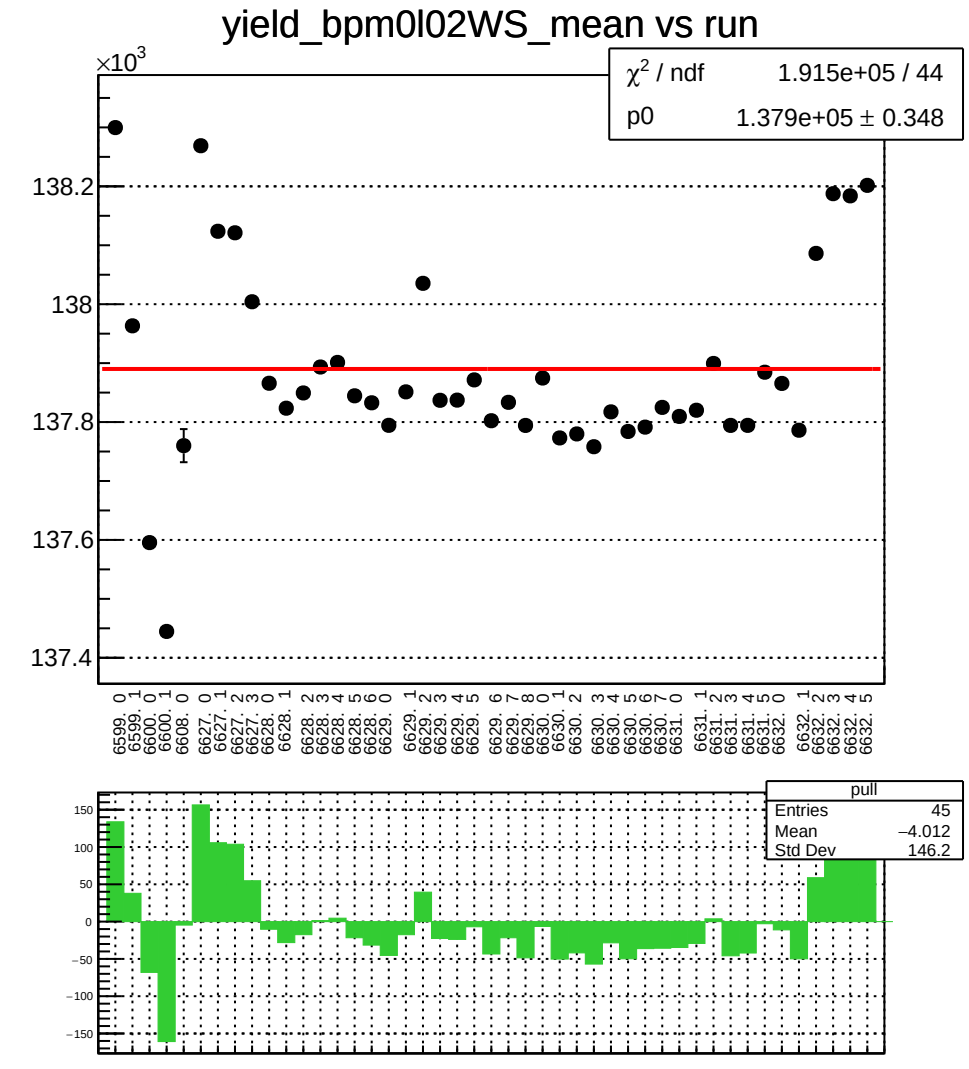

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 1.228e+05 / 44
p0 1.463e+05 ± 0.2602
146.4
146.2
146
145.8
145.6
145.4
145.2
145
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −71.86
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100
−120
−140
pull1D
Entries 45
Mean −2.355
Std Dev 3.952
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

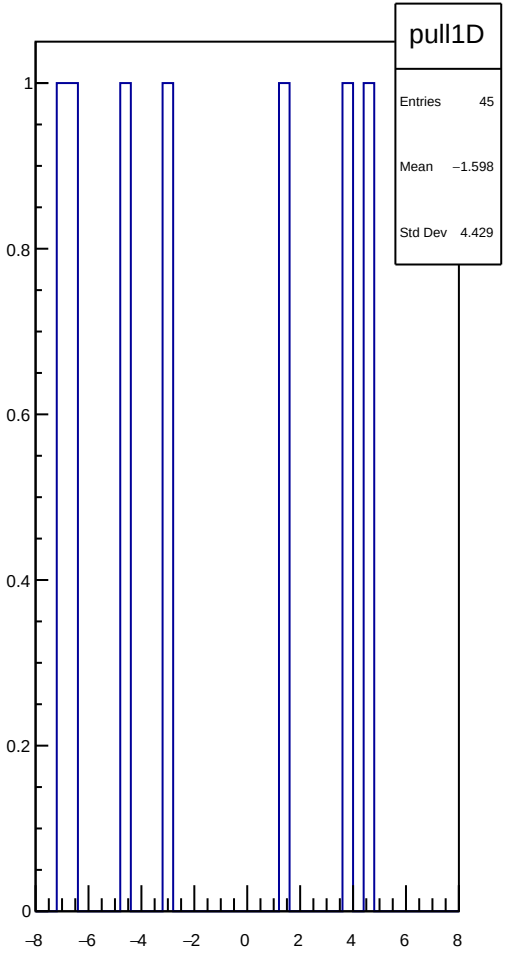

yield_bpm0i01aWS_rms vs run
χ² / ndf 2.646e+04 / 44
p0 170.2 ± 0.184
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

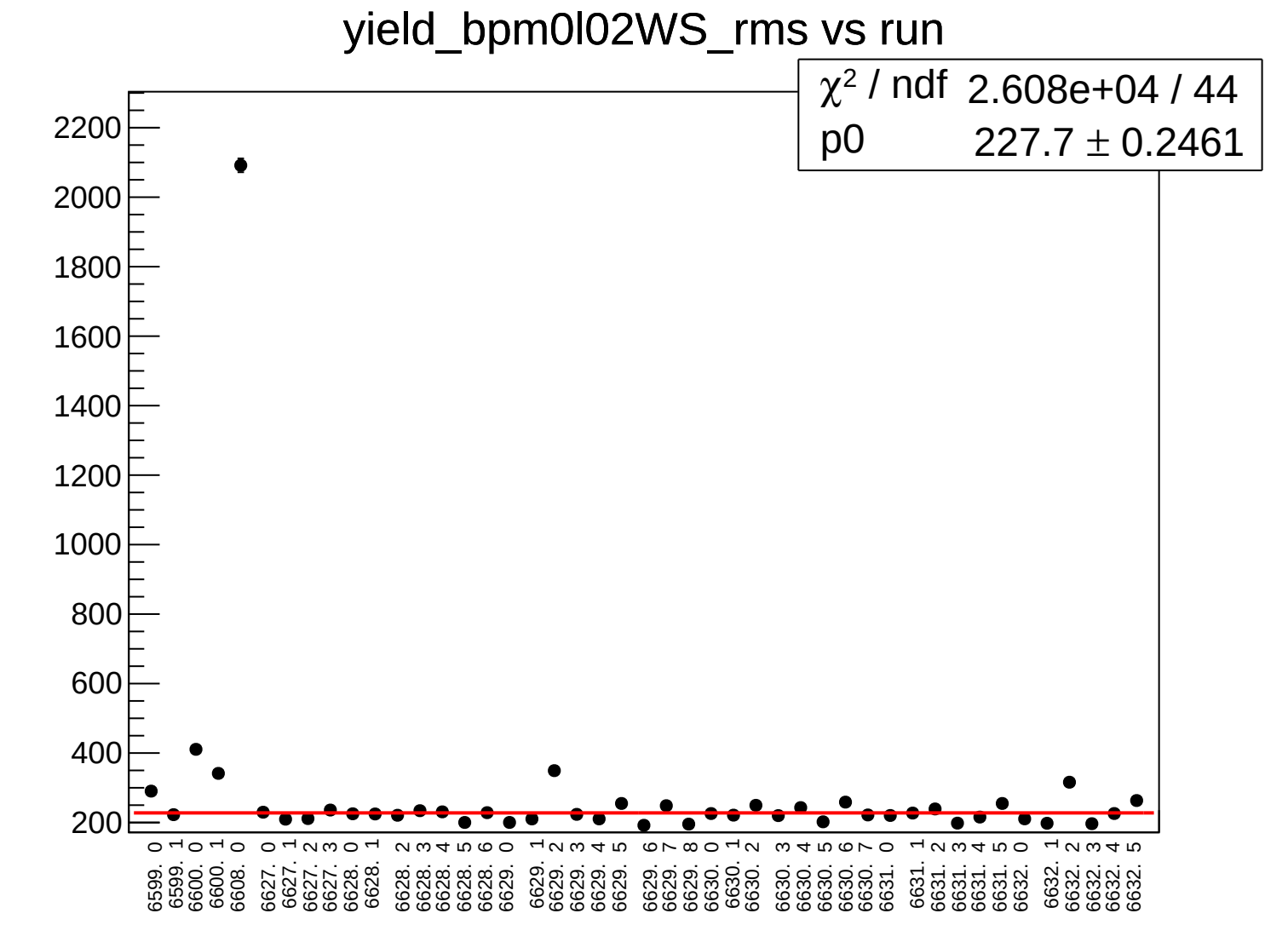

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 2.64e+05 / 44
p0 1.214e+05 ± 0.2294
121.8
121.6
121.4
121.2
121
120.8
120.6
120.4
120.2
120
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −8.76
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

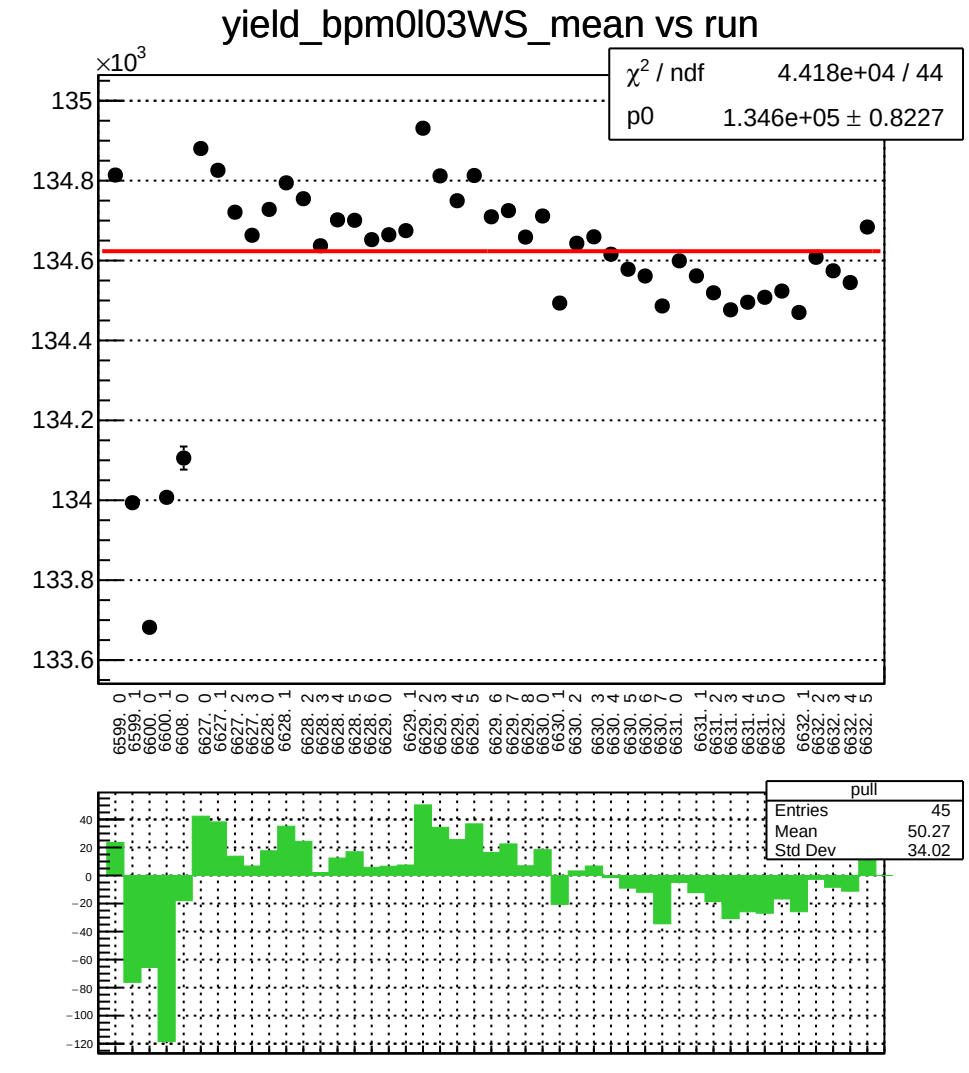

pull1D
Entries 45
Mean 2.422
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

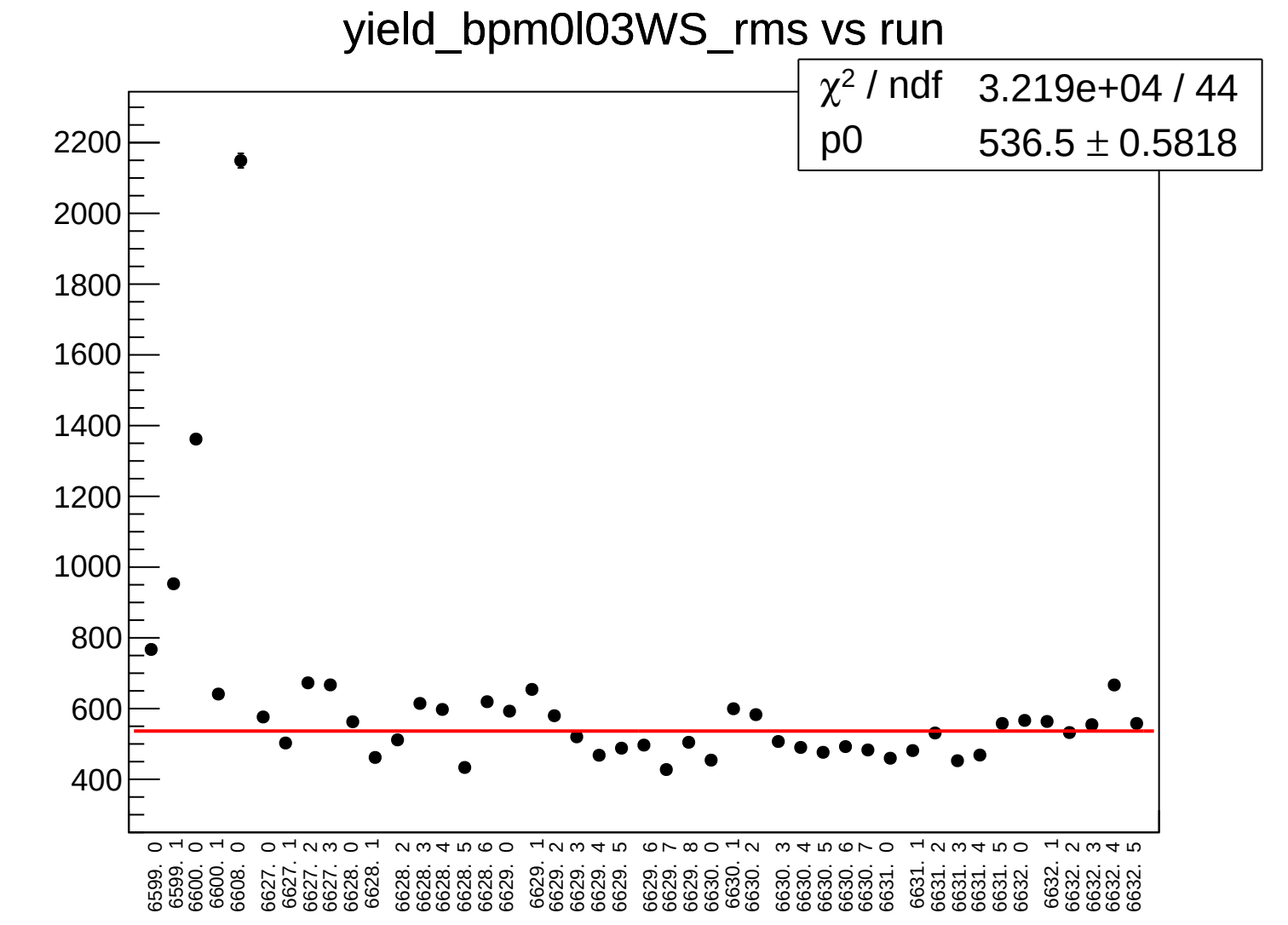

yield_bpm0l01WS_rms vs run
χ² / ndf 4.263e+04 / 44
p0 148.7 ± 0.1622
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

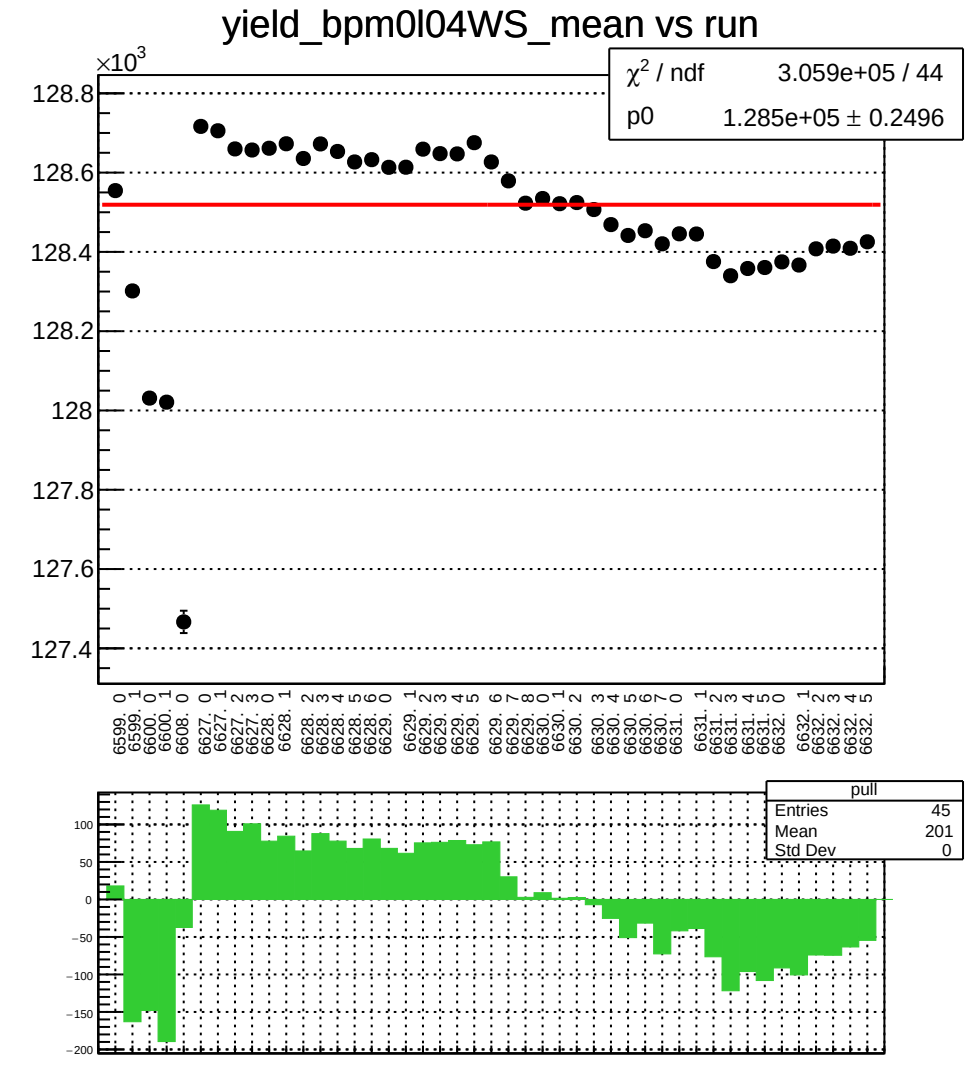

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 1.915e+05 / 44
p0 1.379e+05 ± 0.348
138.2
138
137.8
137.6
137.4
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −4.012
Std Dev 146.2
150
100
50
0
−50
−100
−150

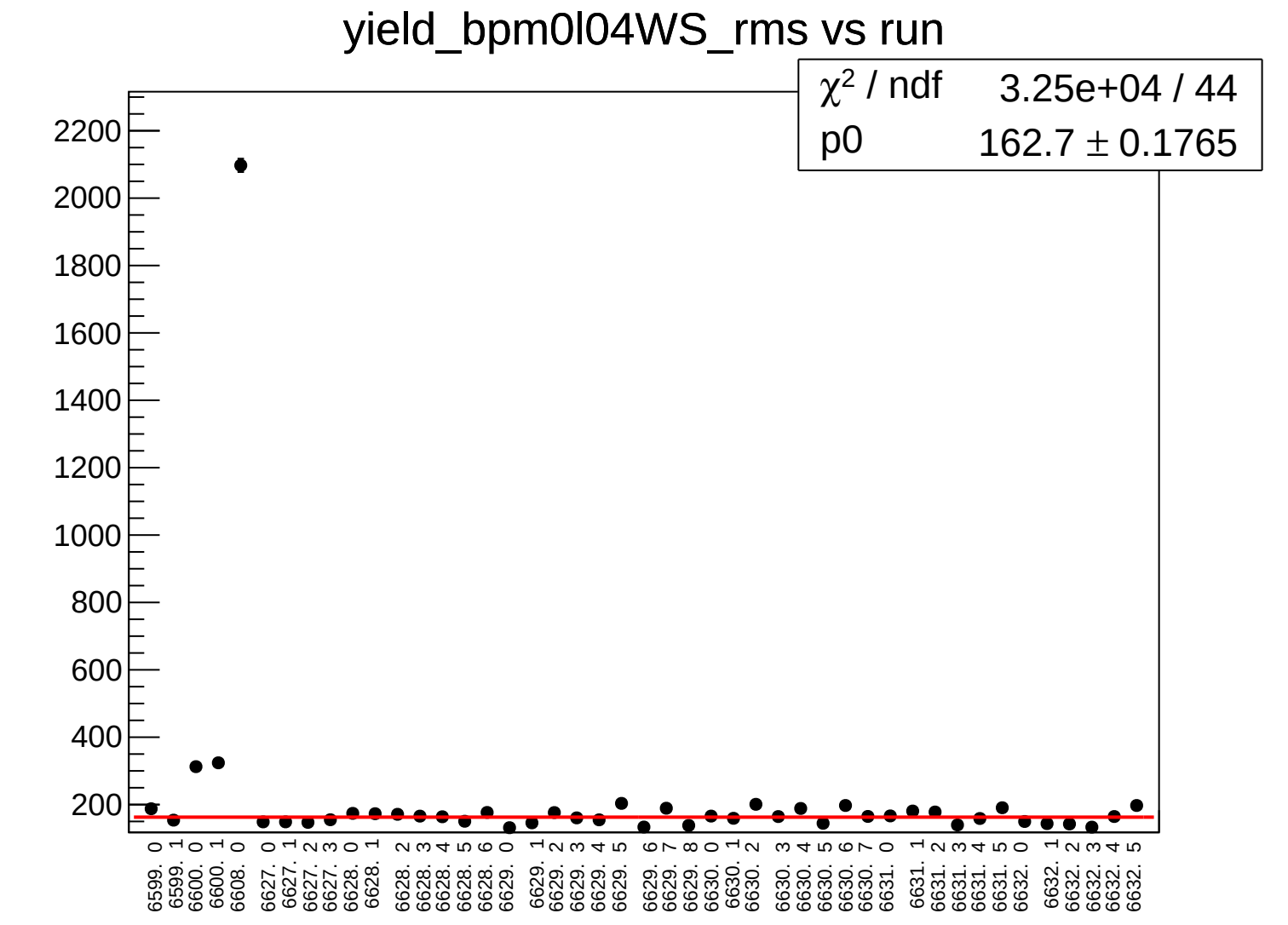

pull1D
Entries 45
Mean −1.598
Std Dev 4.429
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

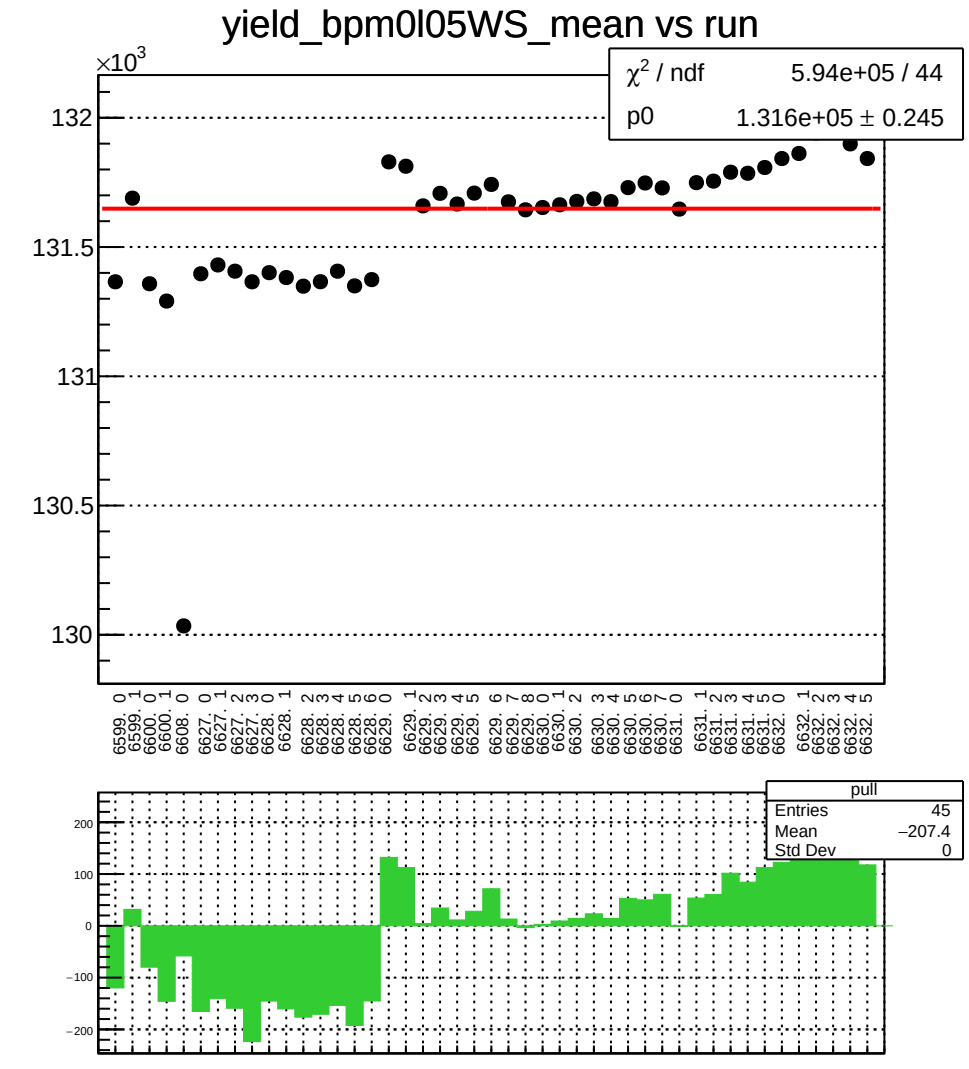

yield_bpm0l02WS_rms vs run
χ² / ndf 2.608e+04 / 44
p0 227.7 ± 0.2461
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

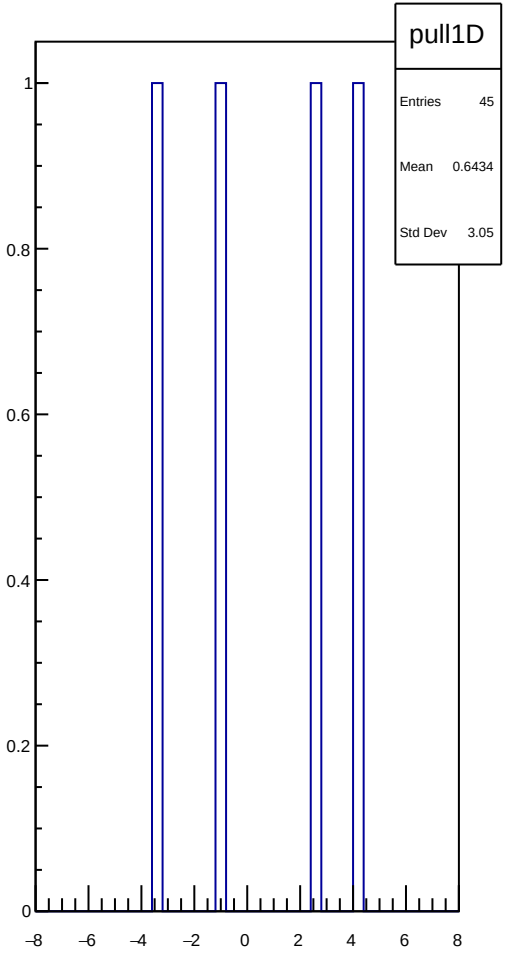

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 4.418e+04 / 44
p0 1.346e+05 ± 0.8227
135
134.8
134.6
134.4
134.2
134
133.8
133.6
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 50.27
Std Dev 34.02
40
20
0
−20
−40
−60
−80
−100
−120
pull1D
Entries 45
Mean 3.327
Std Dev 4.271
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

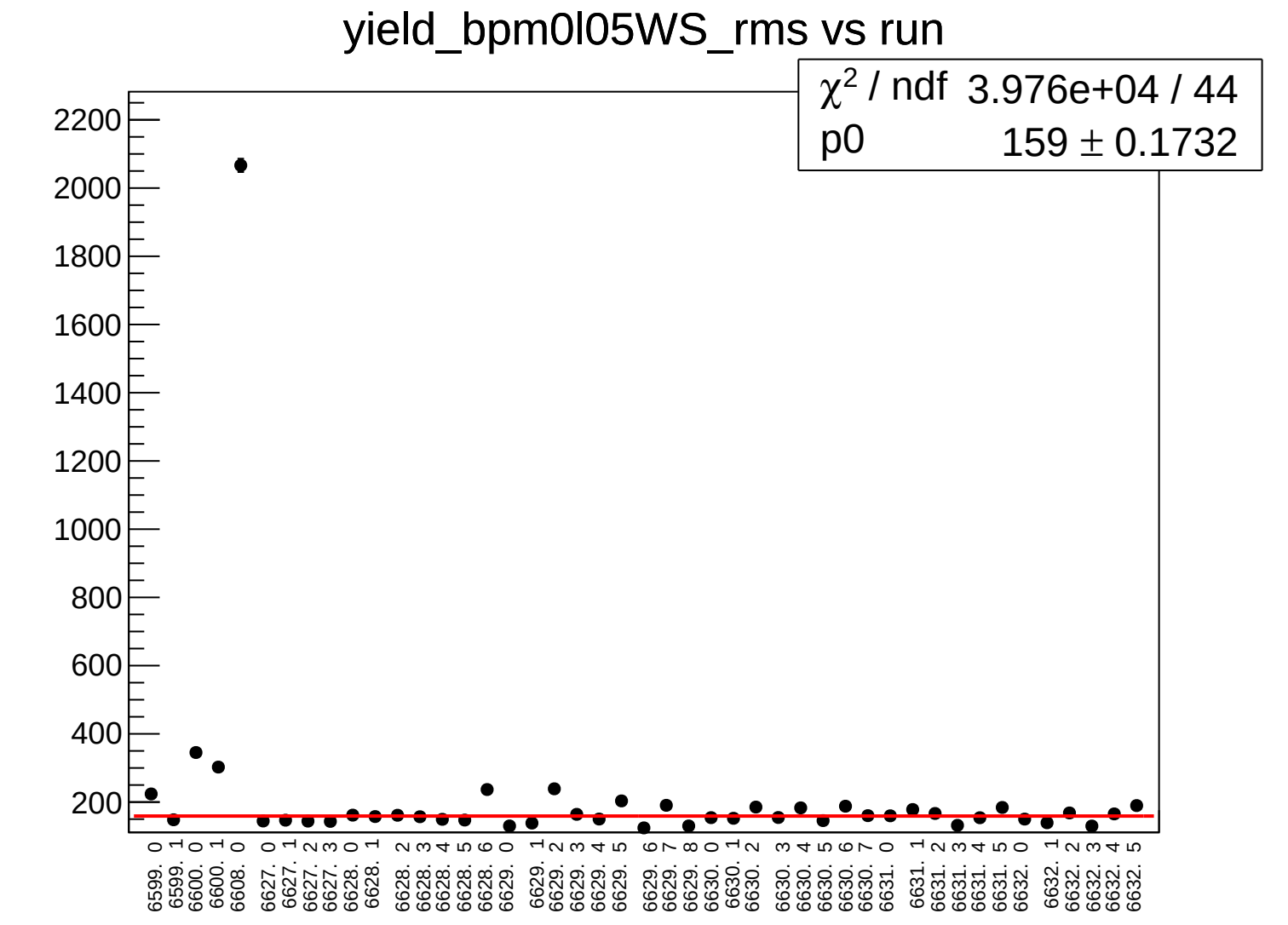

yield_bpm0l03WS_rms vs run
χ² / ndf 3.219e+04 / 44
p0 536.5 ± 0.5818
2200
2000
1800
1600
1400
1200
1000
800
600
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

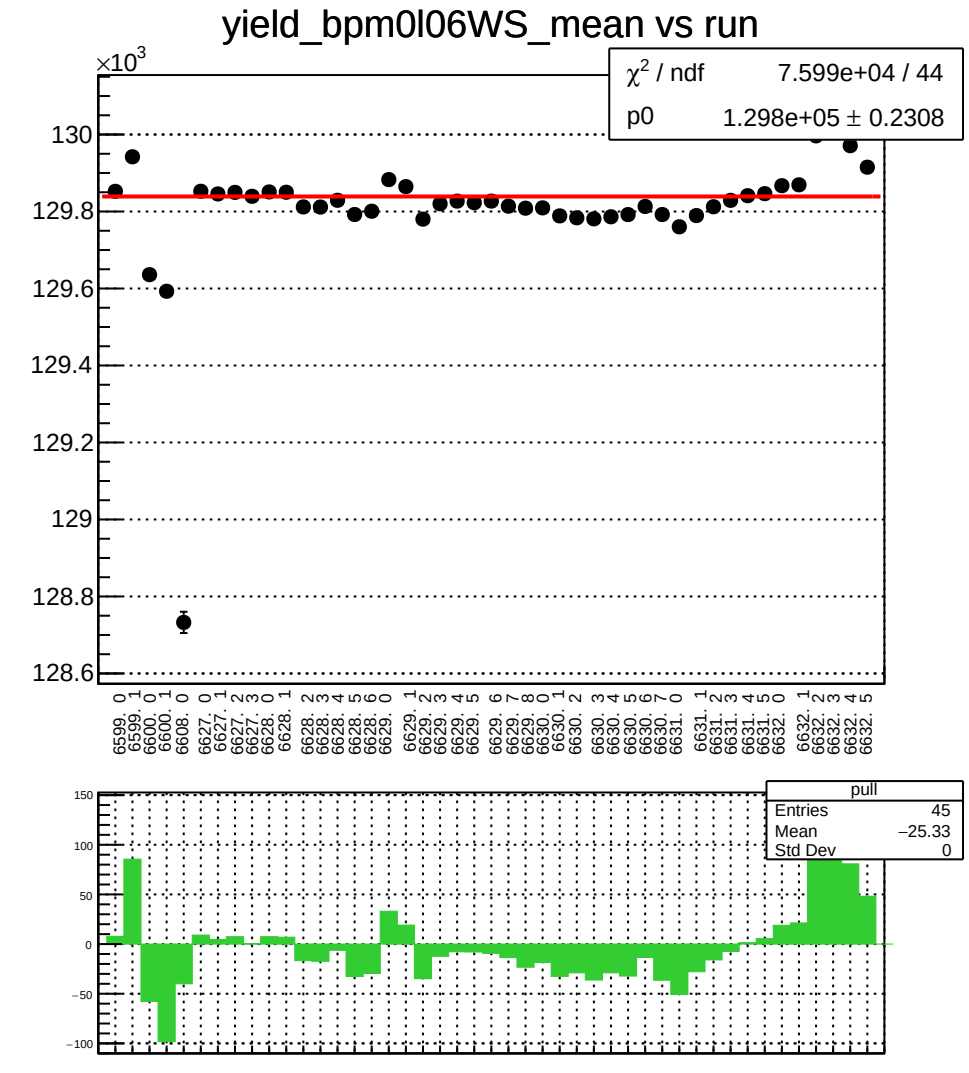

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 3.059e+05 / 44
p0 1.285e+05 ± 0.2496
128.8
128.6
128.4
128.2
128
127.8
127.6
127.4
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 201
Std Dev 0
100
50
0
−50
−100
−150
−200
pull1D
Entries 45
Mean −0.02145
Std Dev 4.056
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

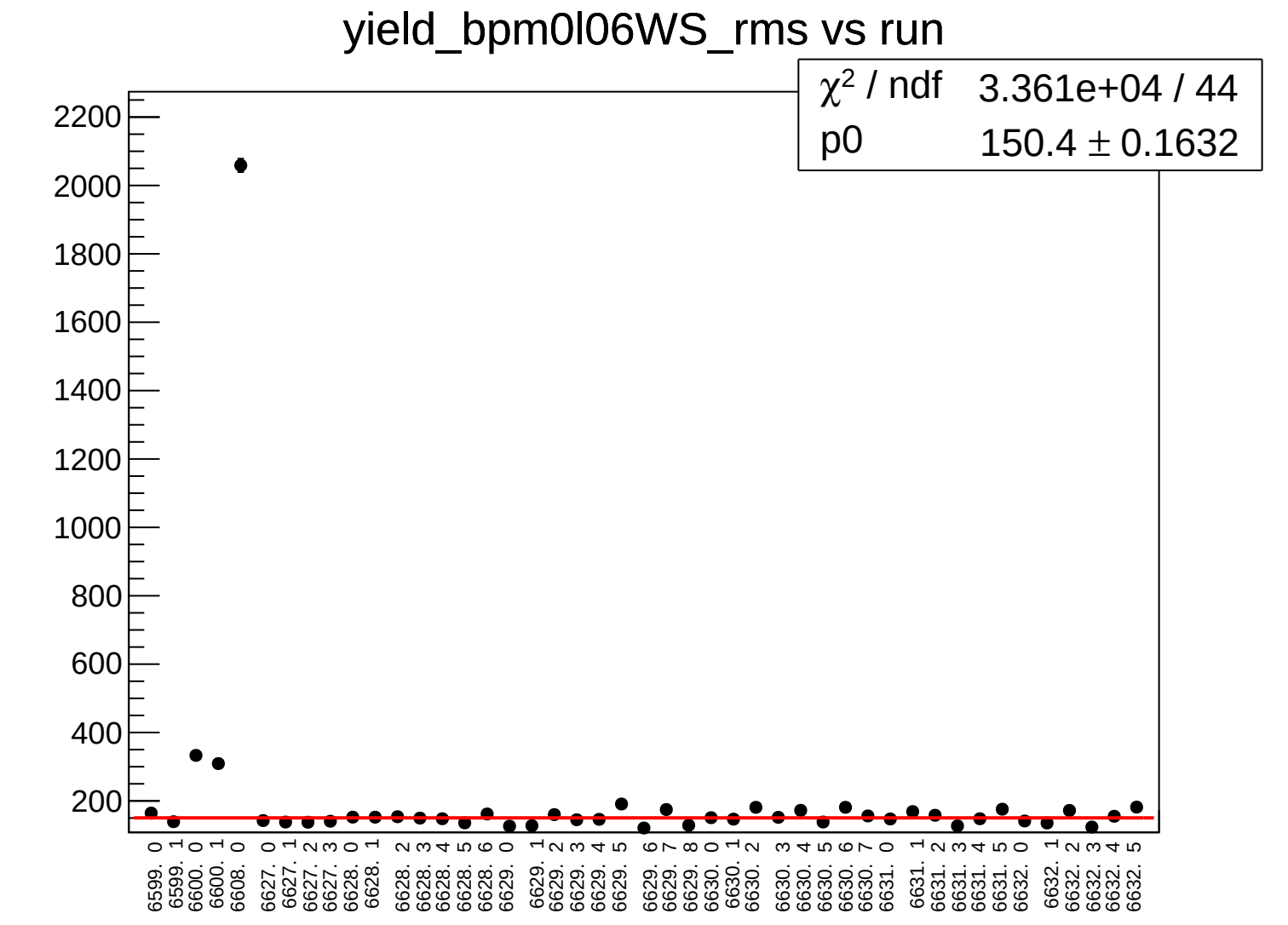

yield_bpm0l04WS_rms vs run
χ² / ndf 3.25e+04 / 44
p0 162.7 ± 0.1765
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

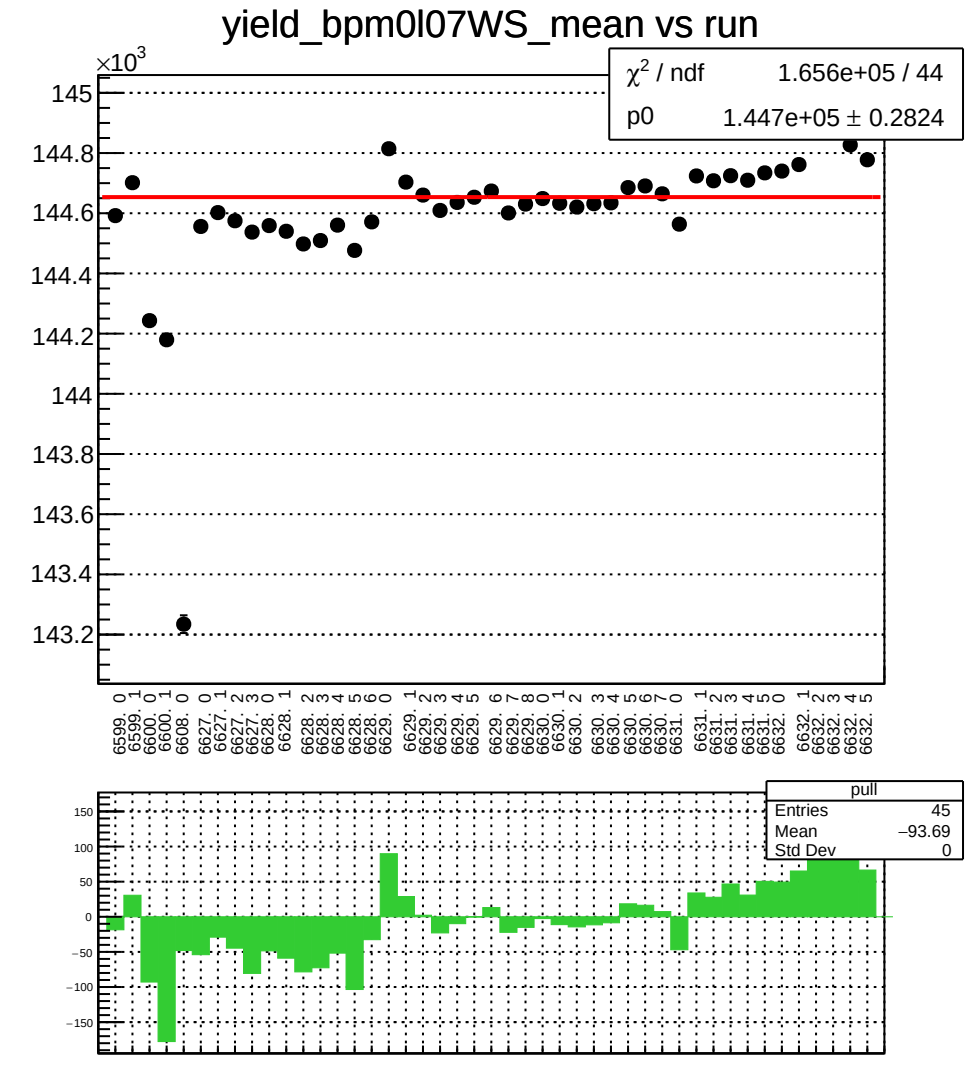

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 5.94e+05 / 44
p0 1.316e+05 ± 0.245
132
131.5
131
130.5
130
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −207.4
Std Dev 0
200
100
0
−100
−200

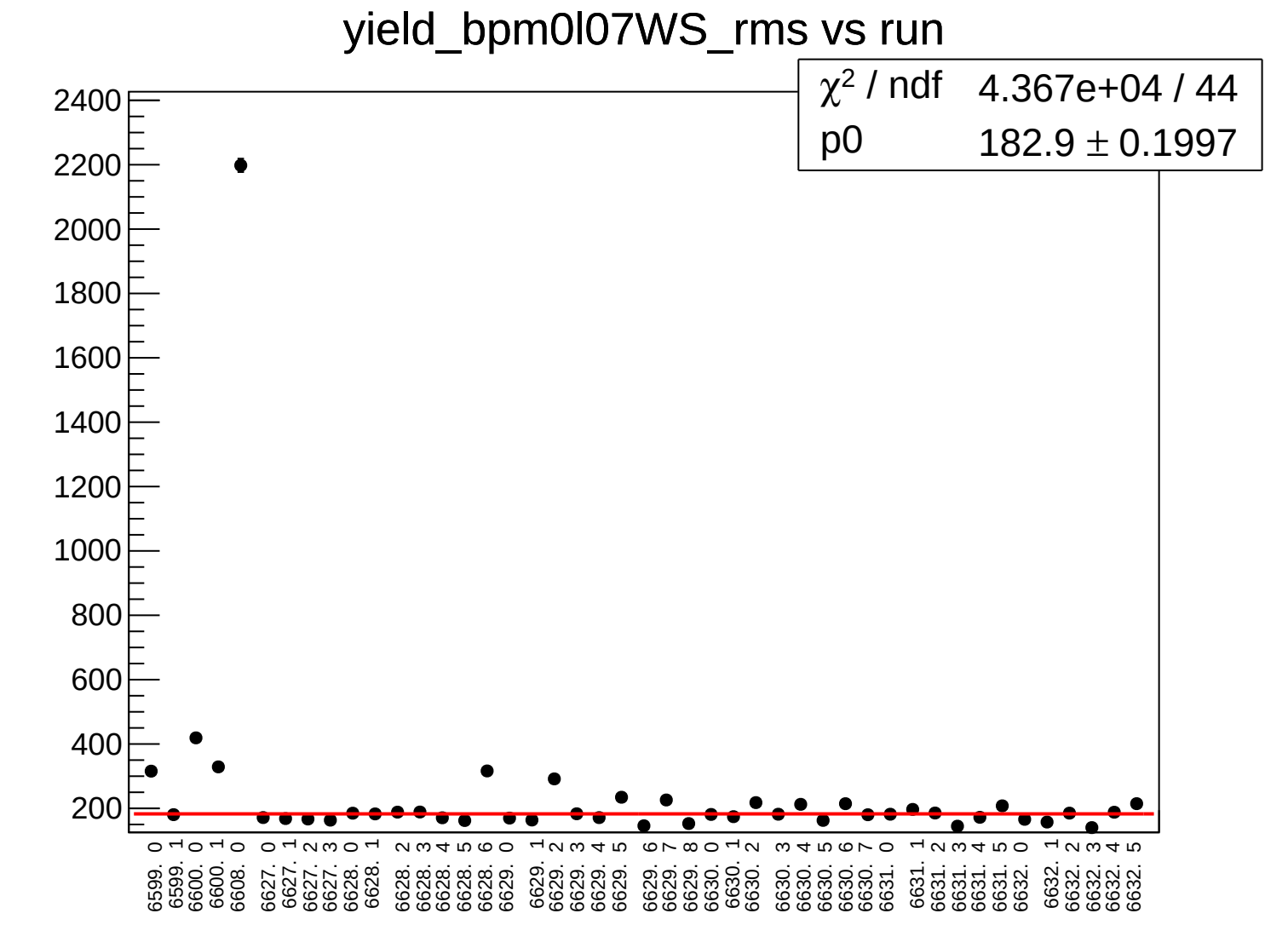

pull1D
Entries 45
Mean 0.6434
Std Dev 3.05
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

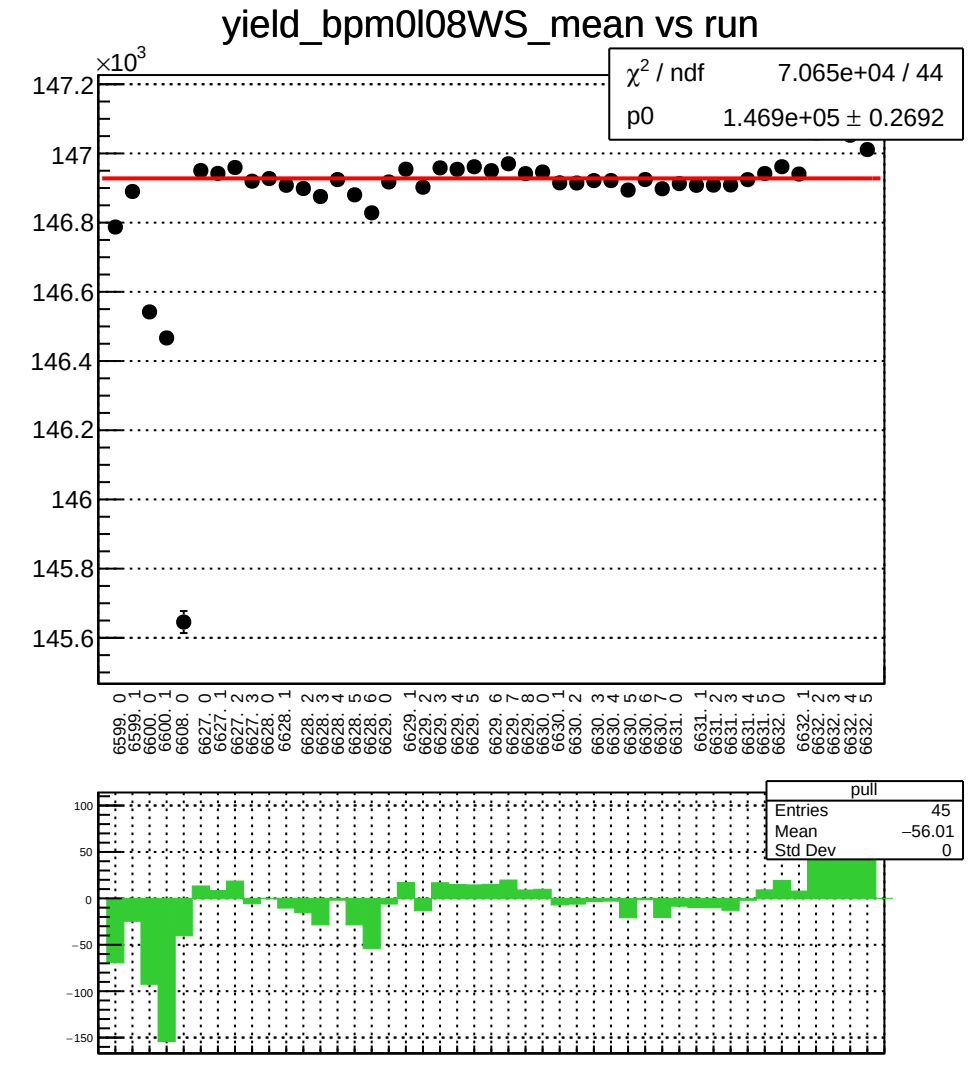

yield_bpm0l05WS_rms vs run
χ² / ndf 3.976e+04 / 44
p0 159 ± 0.1732
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

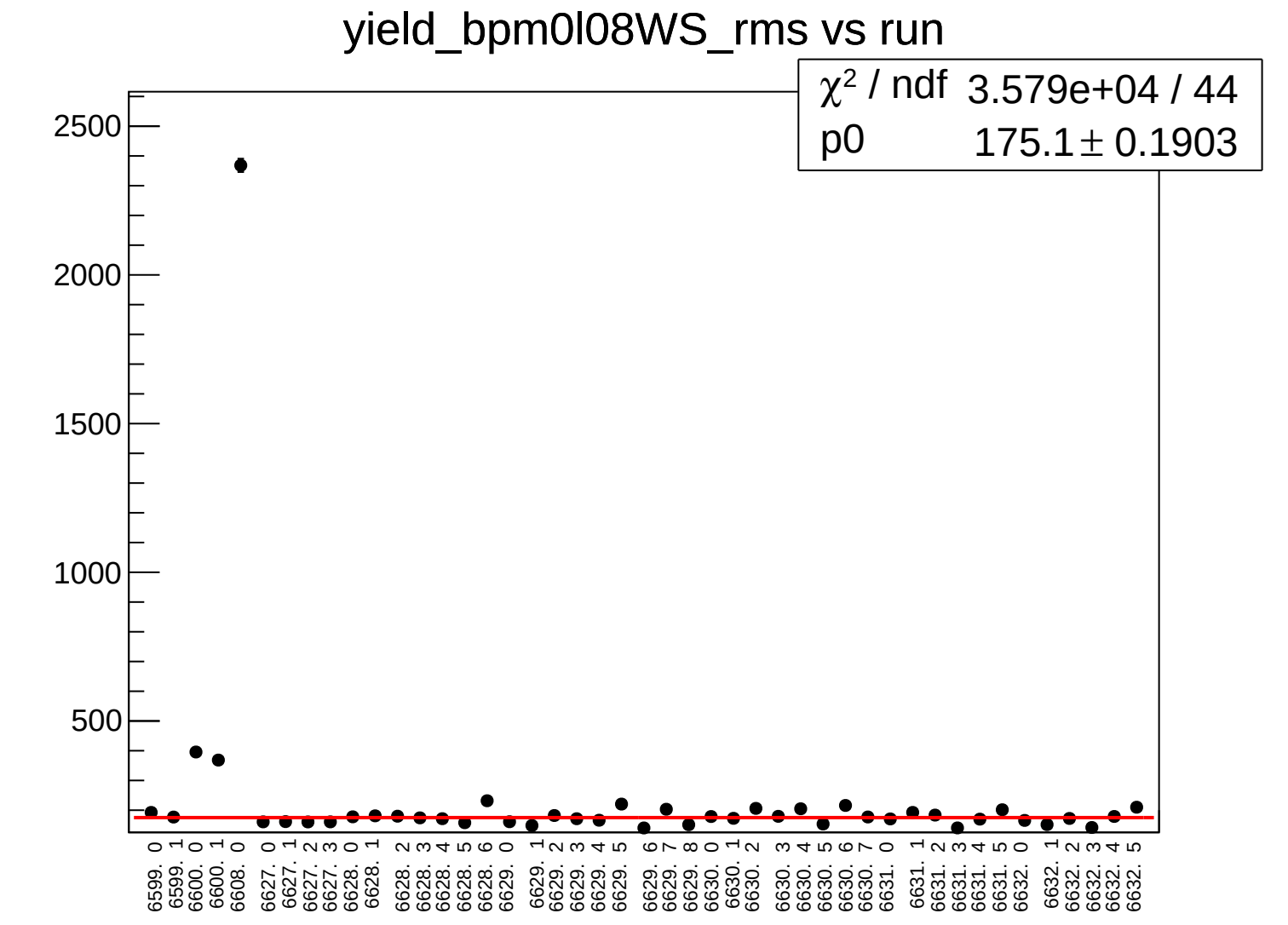

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 7.599e+04 / 44
p0 1.298e+05 ± 0.2308
130
129.8
129.6
129.4
129.2
129
128.8
128.6
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −25.33
Std Dev 0
150
100
50
0
−50
−100
pull1D
Entries 45
Mean 0.9936
Std Dev 6.302
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

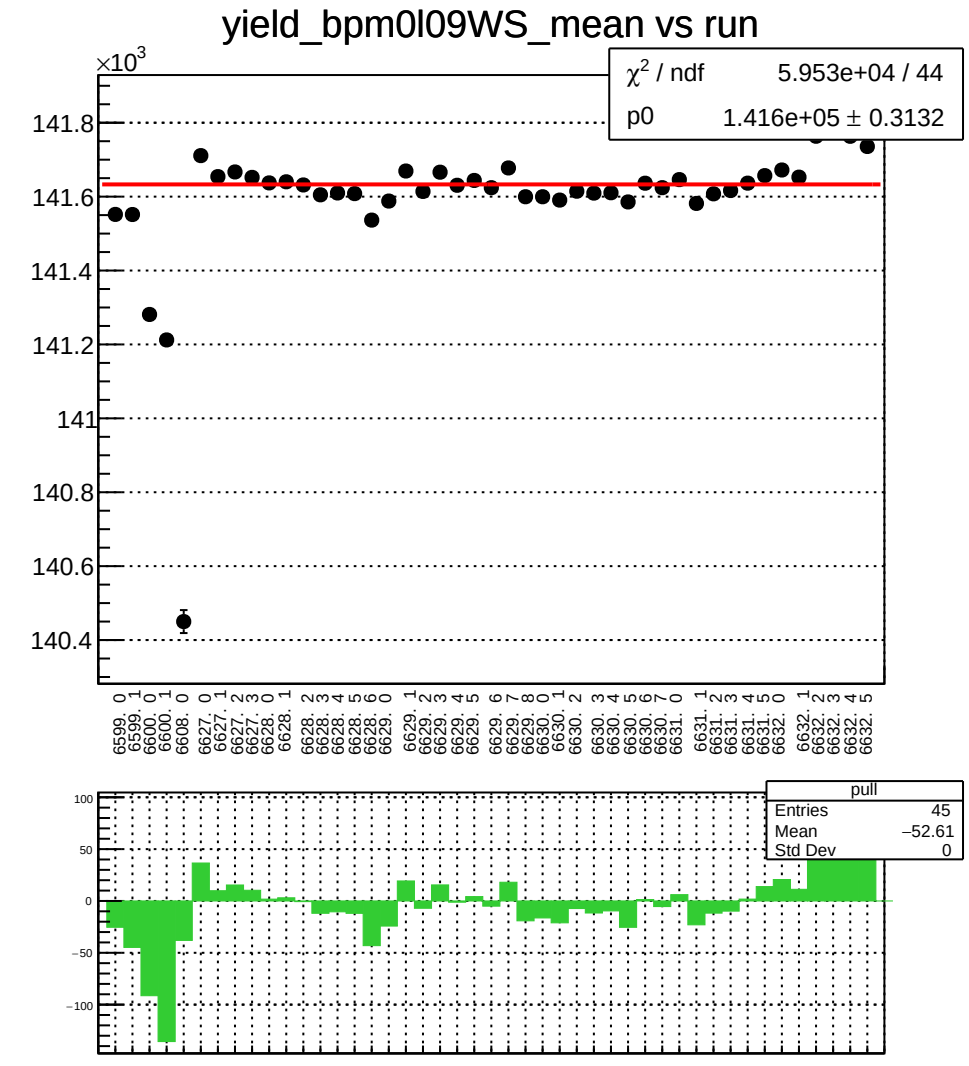

yield_bpm0l06WS_rms vs run
χ² / ndf 3.361e+04 / 44
p0 150.4 ± 0.1632
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

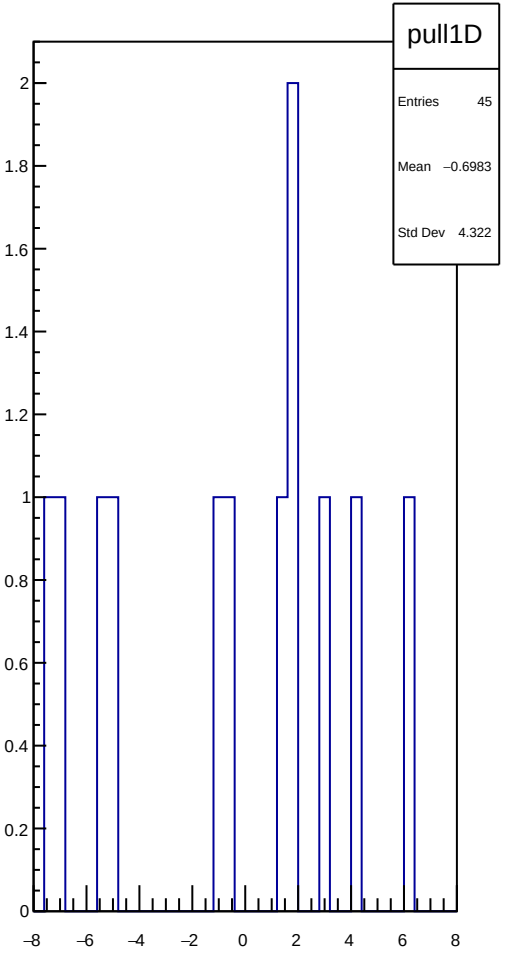

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 1.656e+05 / 44
p0 1.447e+05 ± 0.2824
145
144.8
144.6
144.4
144.2
144
143.8
143.6
143.4
143.2
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −93.69
Std Dev 0
150
100
50
0
−50
−100
−150
pull1D
Entries 45
Mean 1.702
Std Dev 3.667
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

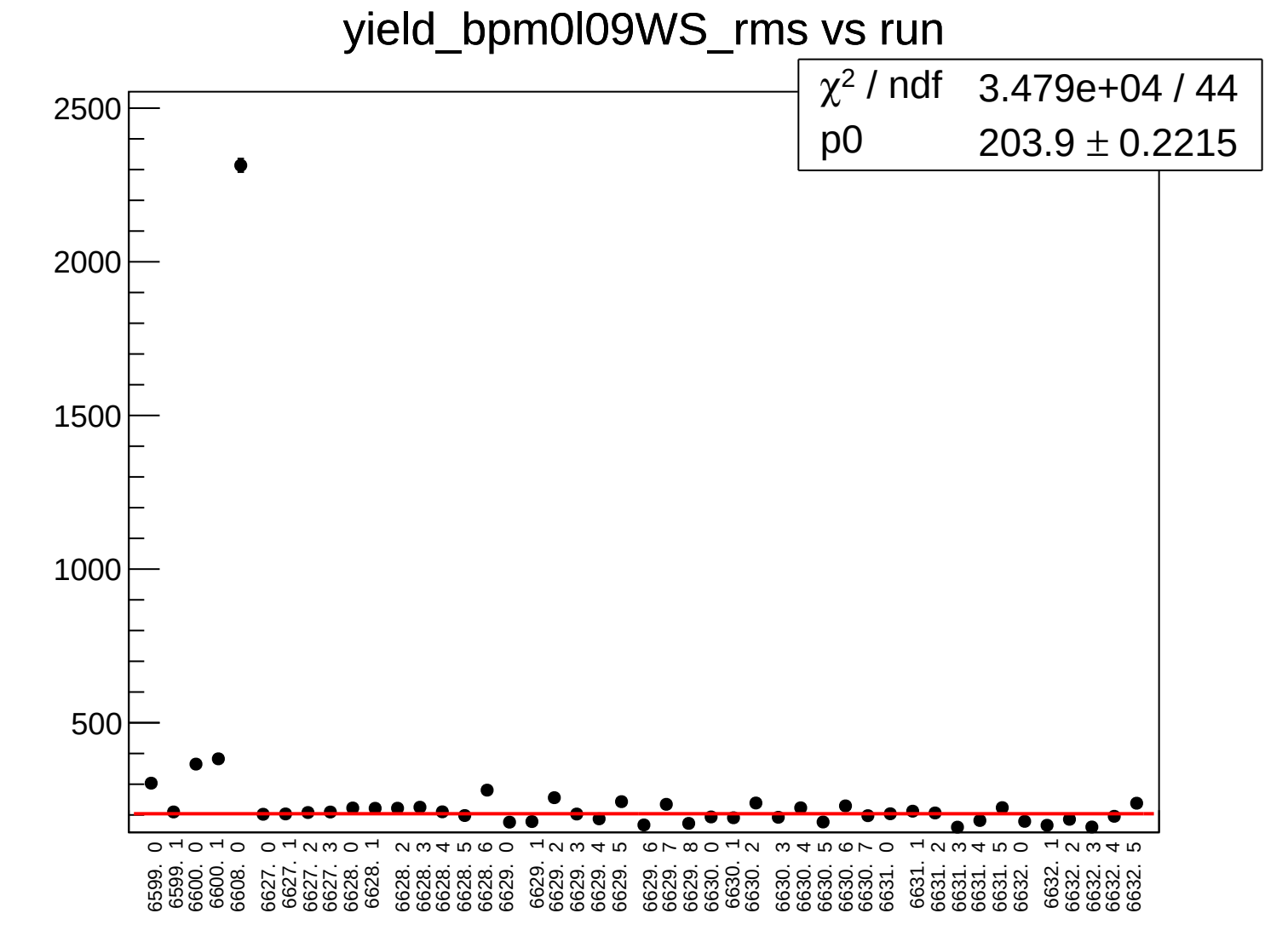

yield_bpm0l07WS_rms vs run
χ² / ndf 4.367e+04 / 44
p0 182.9 ± 0.1997
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

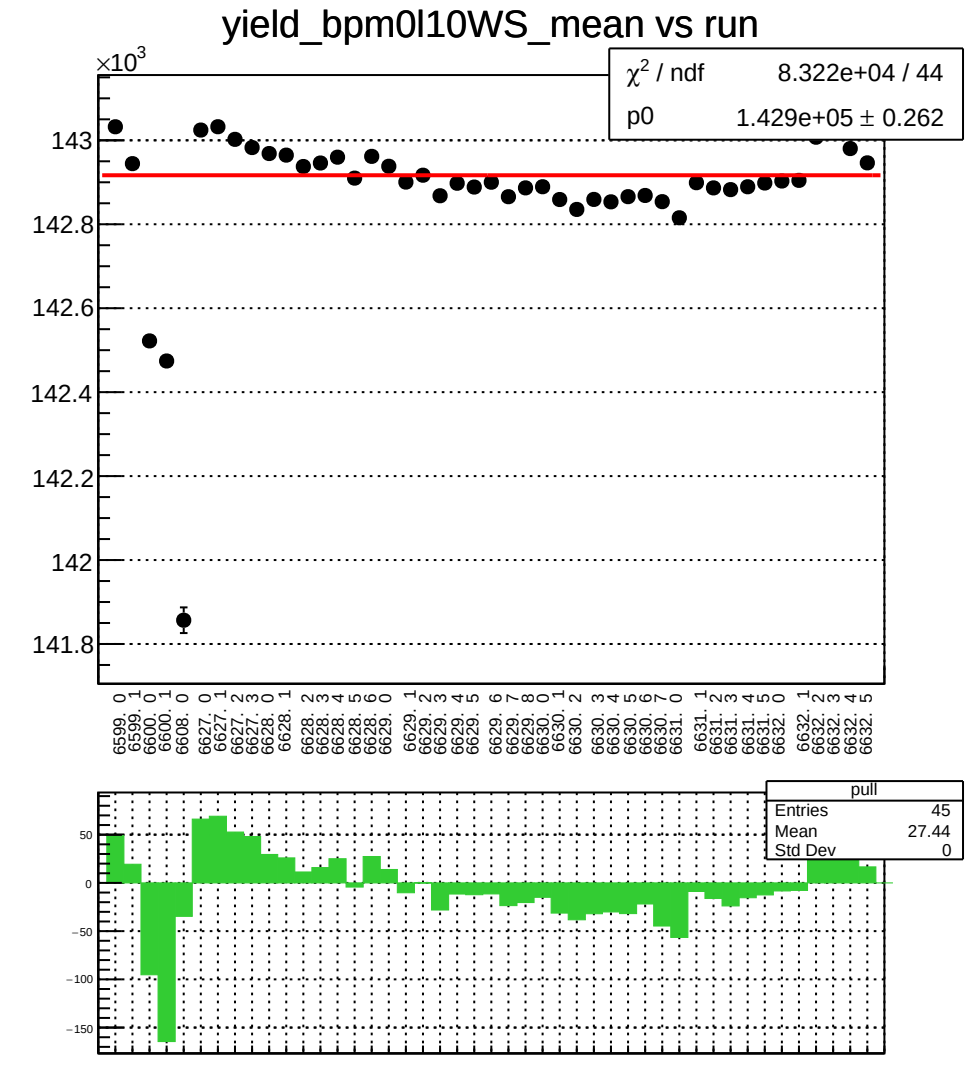

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 7.065e+04 / 44
p0 1.469e+05 ± 0.2692
147.2
147
146.8
146.6
146.4
146.2
146
145.8
145.6
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −56.01
Std Dev 0
100
50
0
−50
−100
−150
pull1D
Entries 45
Mean −2.653
Std Dev 3.949
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

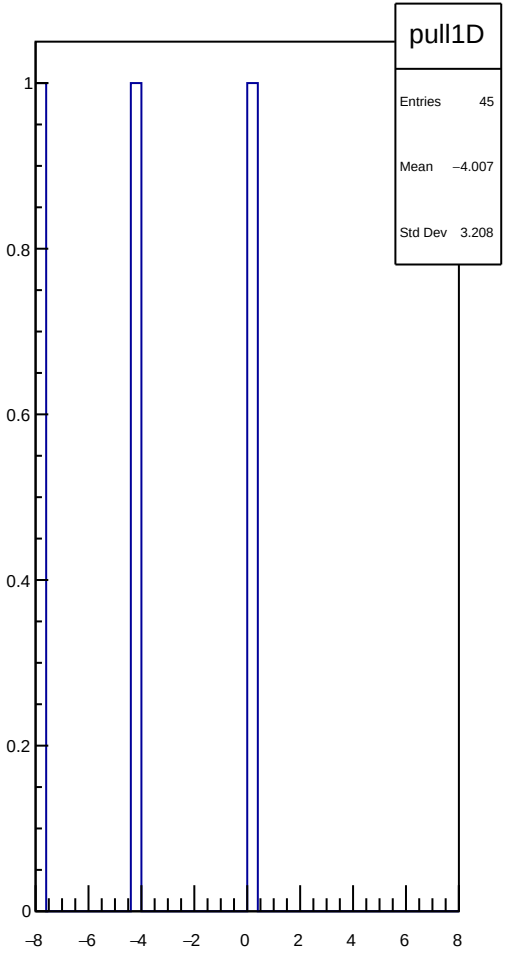

yield_bpm0l08WS_rms vs run
χ² / ndf 3.579e+04 / 44
p0 175.1 ± 0.1903
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

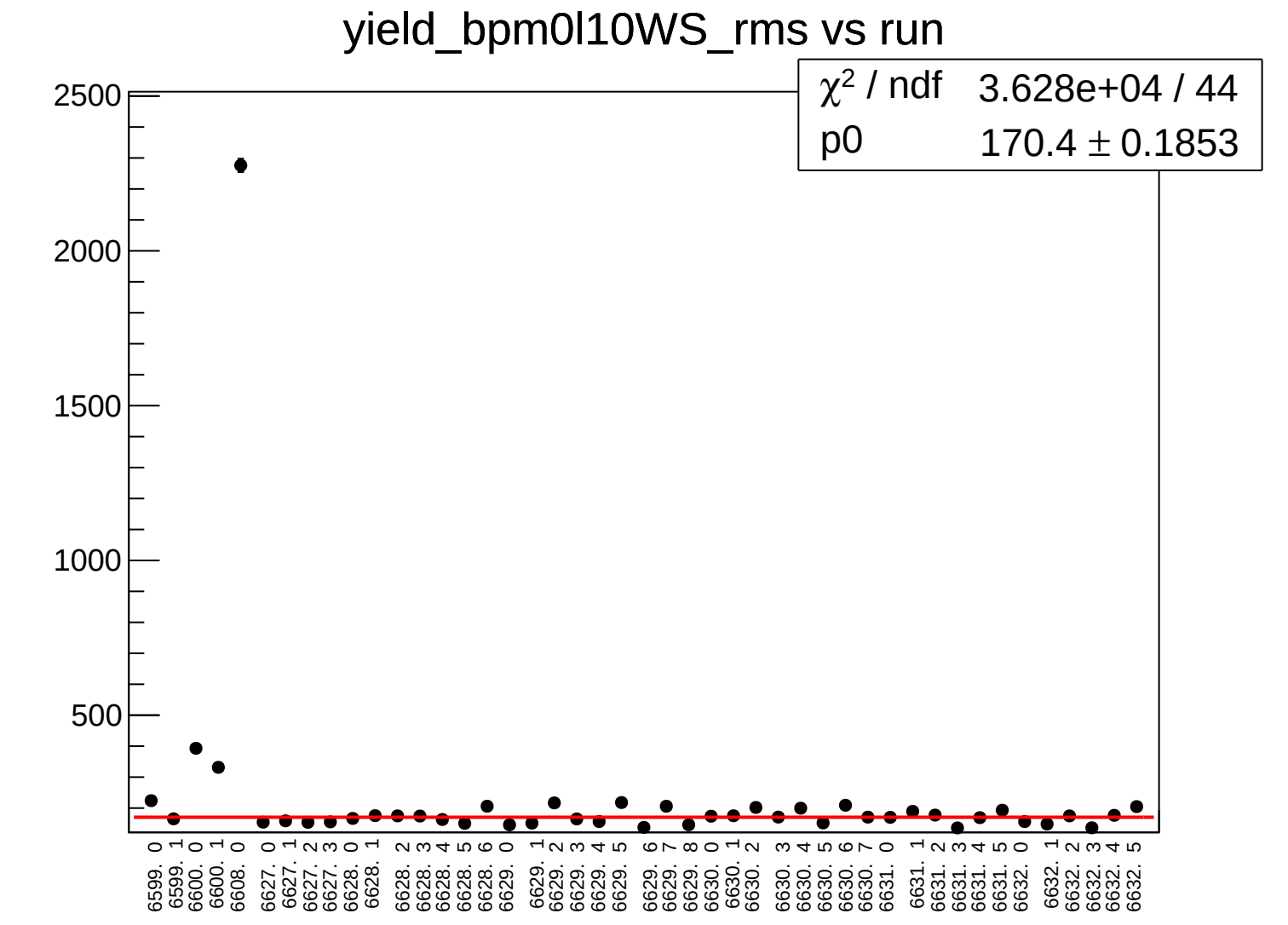

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 5.953e+04 / 44
p0 1.416e+05 ± 0.3132
141.8
141.6
141.4
141.2
141
140.8
140.6
140.4
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6628. 0
6629.
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −52.61
Std Dev 0
100
50
0
−50
−100

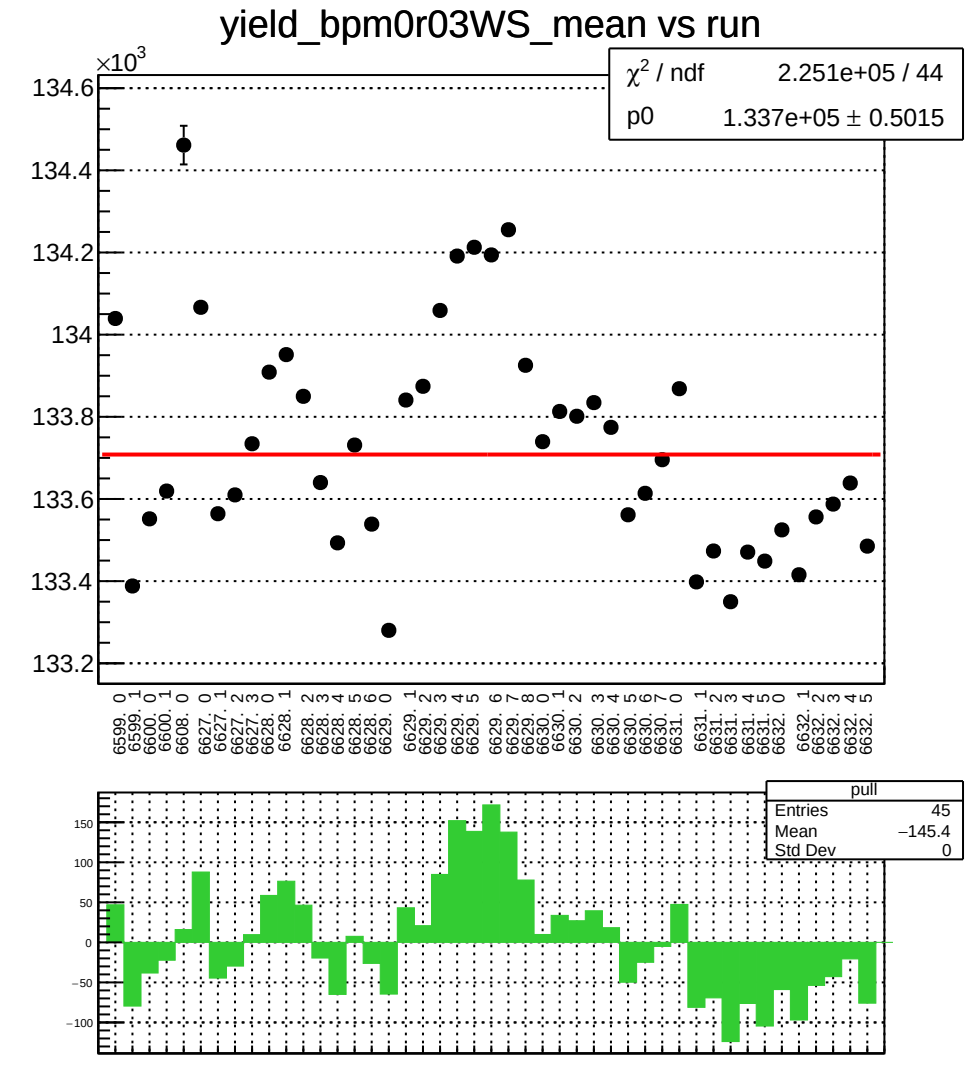

pull1D
Entries 45
Mean −0.6983
Std Dev 4.322
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

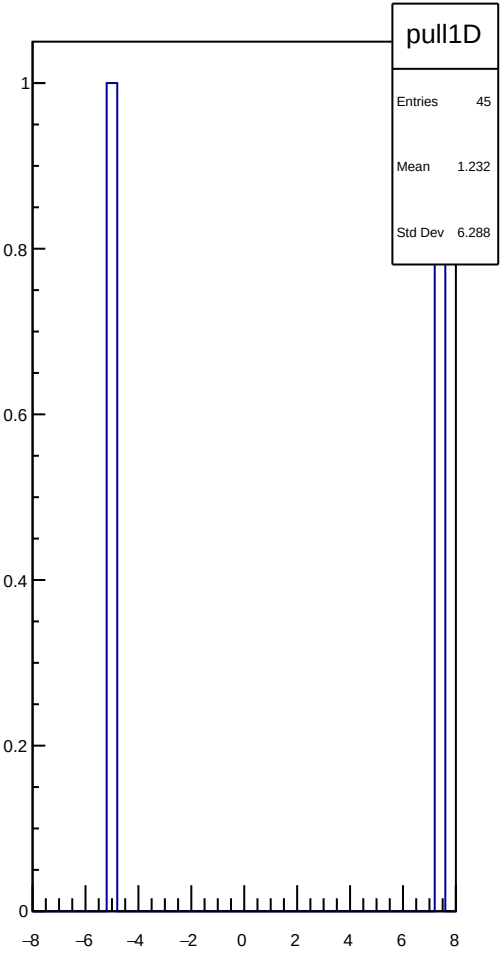

yield_bpm0l09WS_rms vs run
χ² / ndf 3.479e+04 / 44
p0 203.9 ± 0.2215
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

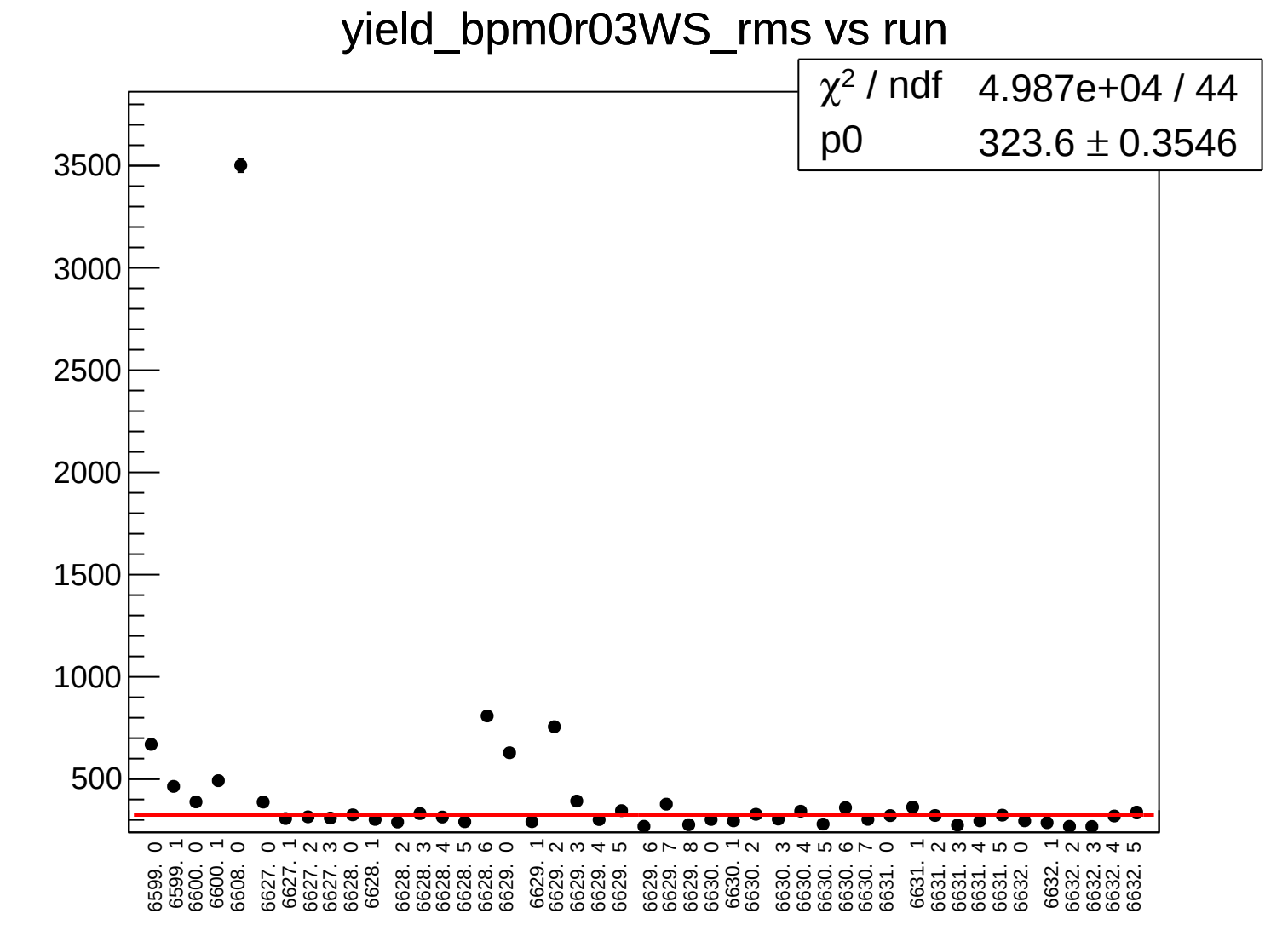

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 8.322e+04 / 44
p0 1.429e+05 ± 0.262
143
142.8
142.6
142.4
142.2
142
141.8
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 27.44
Std Dev 0
50
0
−50
−100
−150

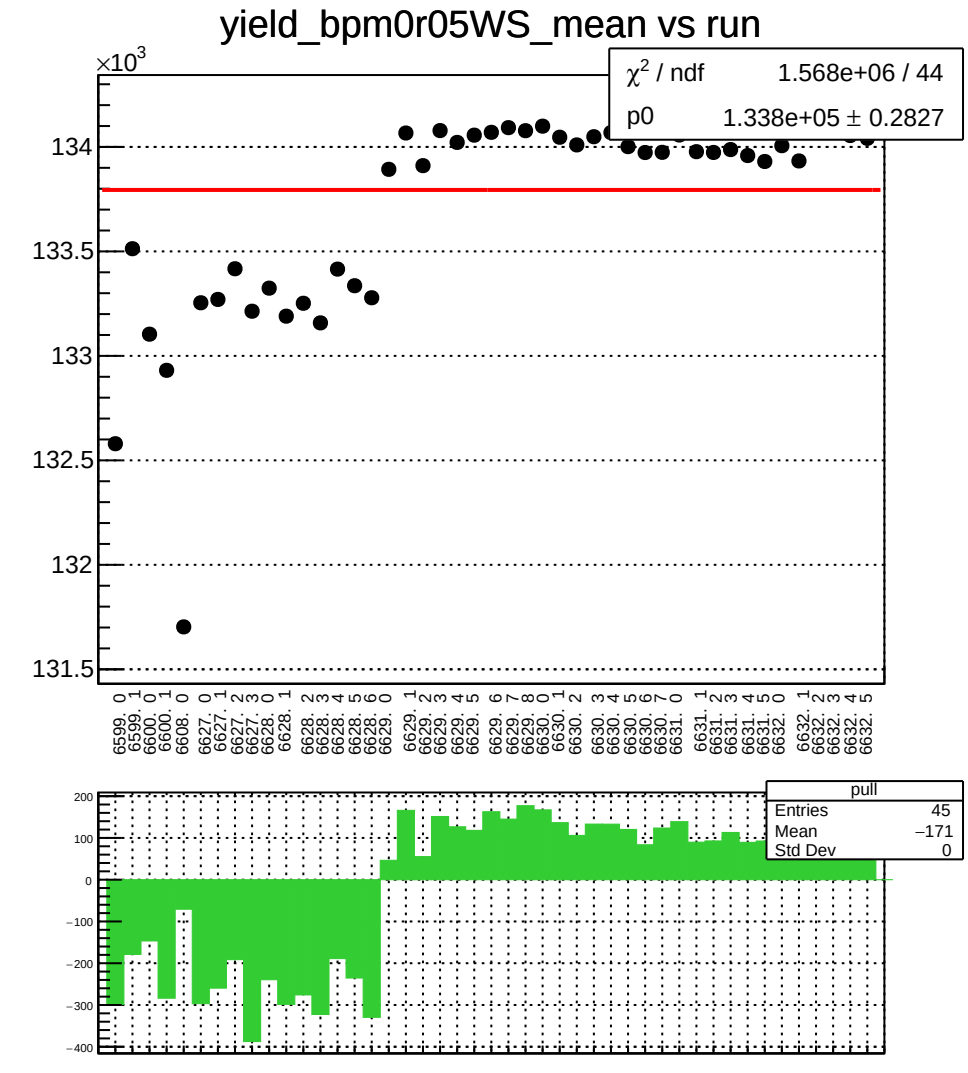

pull1D
Entries 45
Mean −4.007
Std Dev 3.208
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

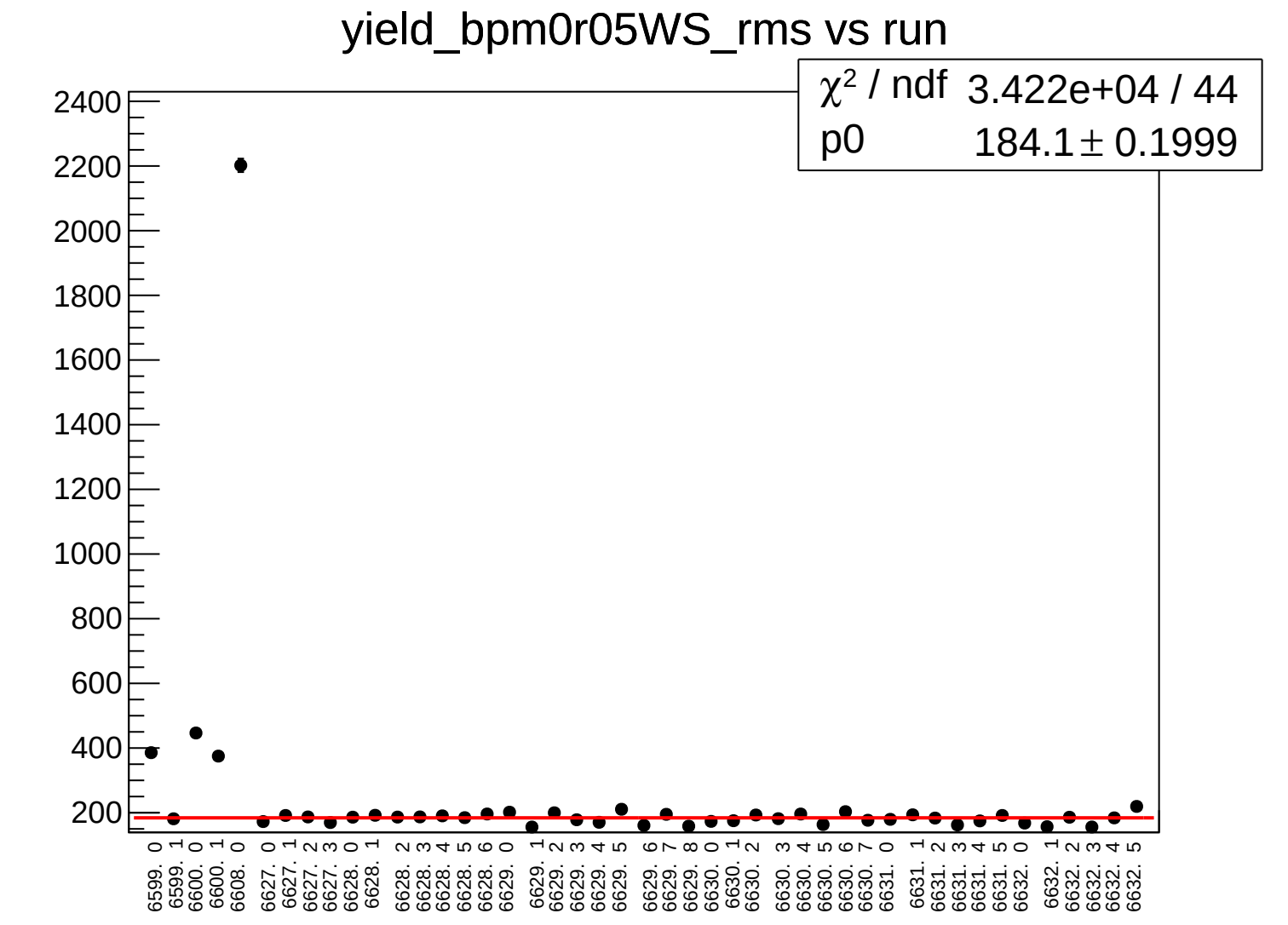

yield_bpm0l10WS_rms vs run
χ² / ndf 3.628e+04 / 44
p0 170.4 ± 0.1853
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

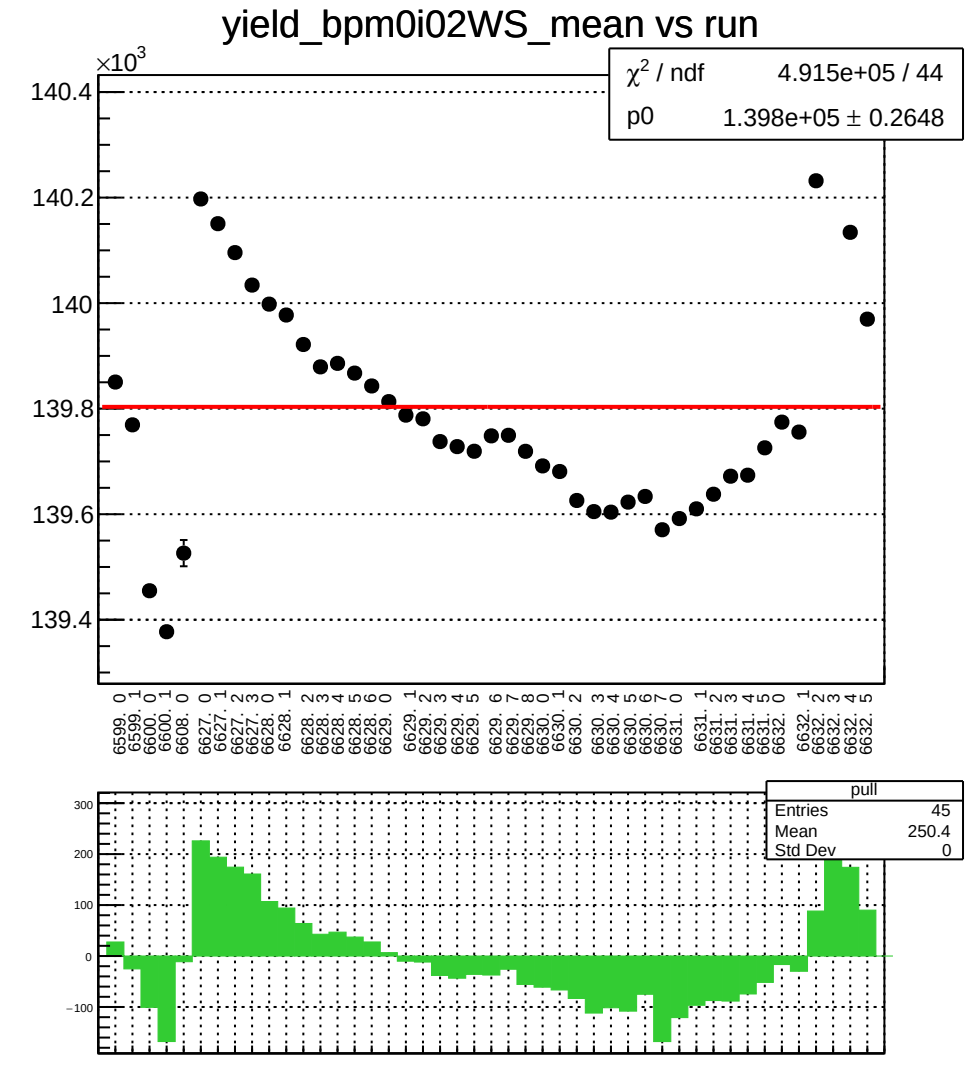

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 2.251e+05 / 44
p0 1.337e+05 ± 0.5015
134.6
134.4
134.2
134
133.8
133.6
133.4
133.2
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −145.4
Std Dev 0
150
100
50
0
−50
−100

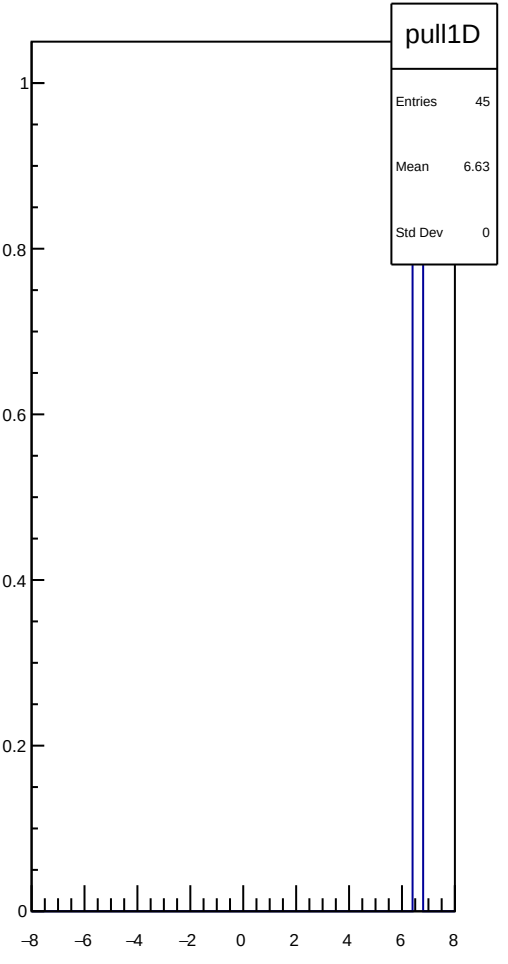

pull1D
Entries 45
Mean 1.232
Std Dev 6.288
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

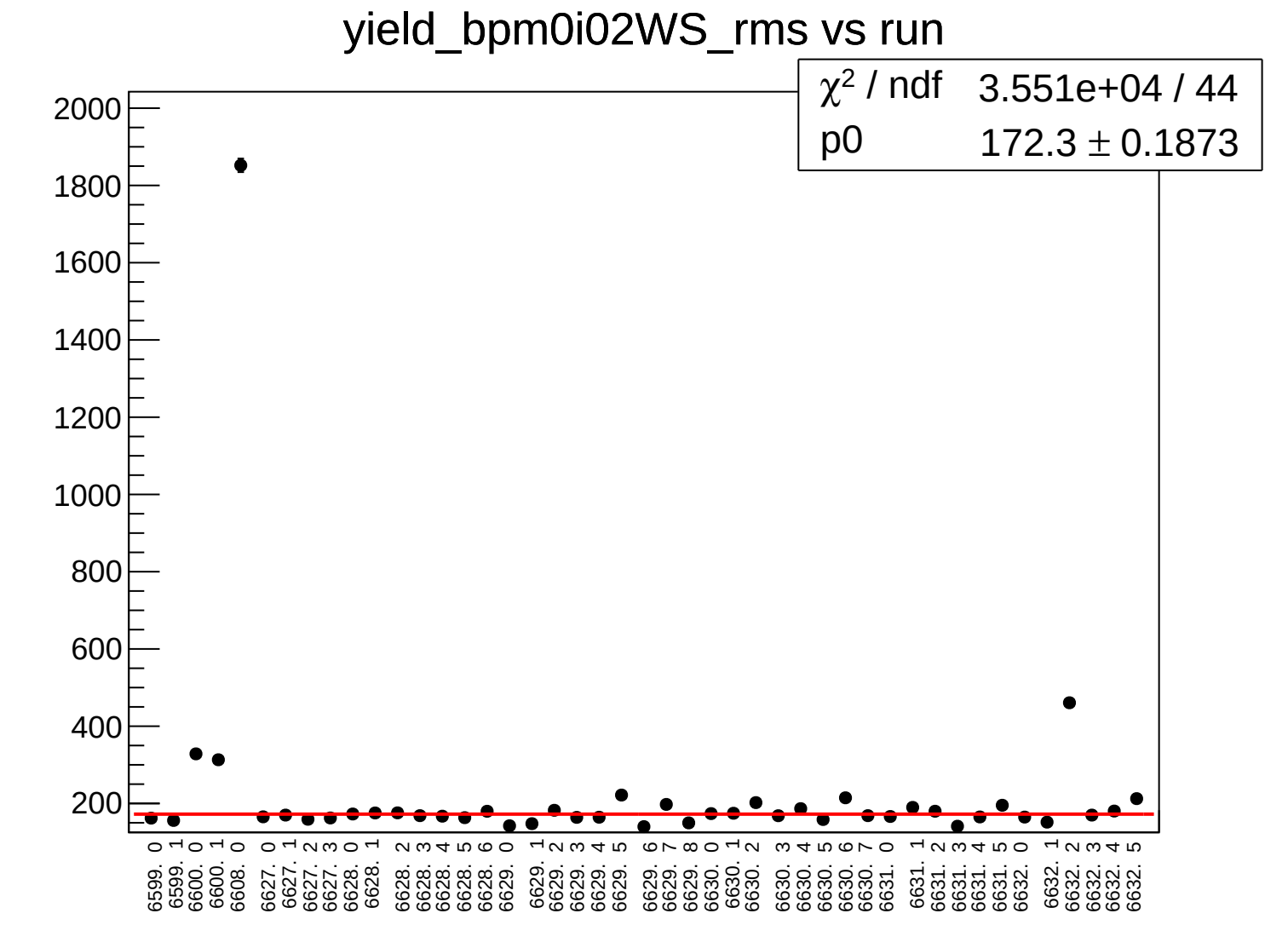

yield_bpm0r03WS_rms vs run
χ² / ndf 4.987e+04 / 44
p0 323.6 ± 0.3546
3500
3000
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

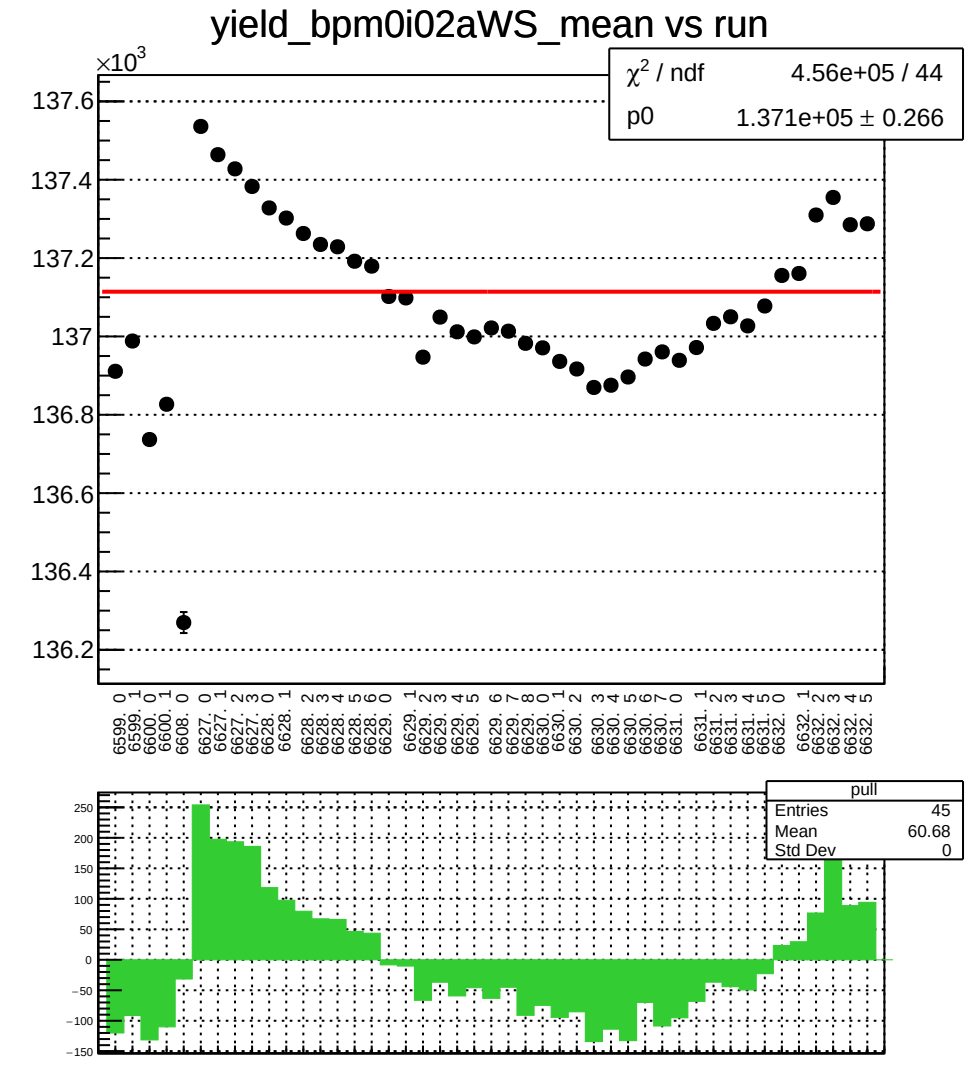

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 1.568e+06 / 44
p0 1.338e+05 ± 0.2827
134
133.5
133
132.5
132
131.5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −171
Std Dev 0
200
100
0
−100
−200
−300
−400
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

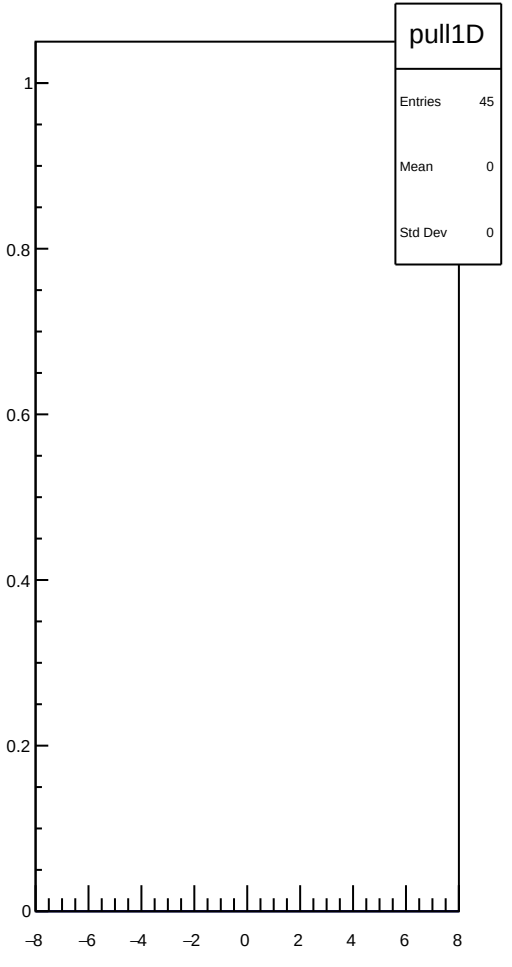

yield_bpm0r05WS_rms vs run
χ² / ndf 3.422e+04 / 44
p0 184.1 ± 0.1999
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

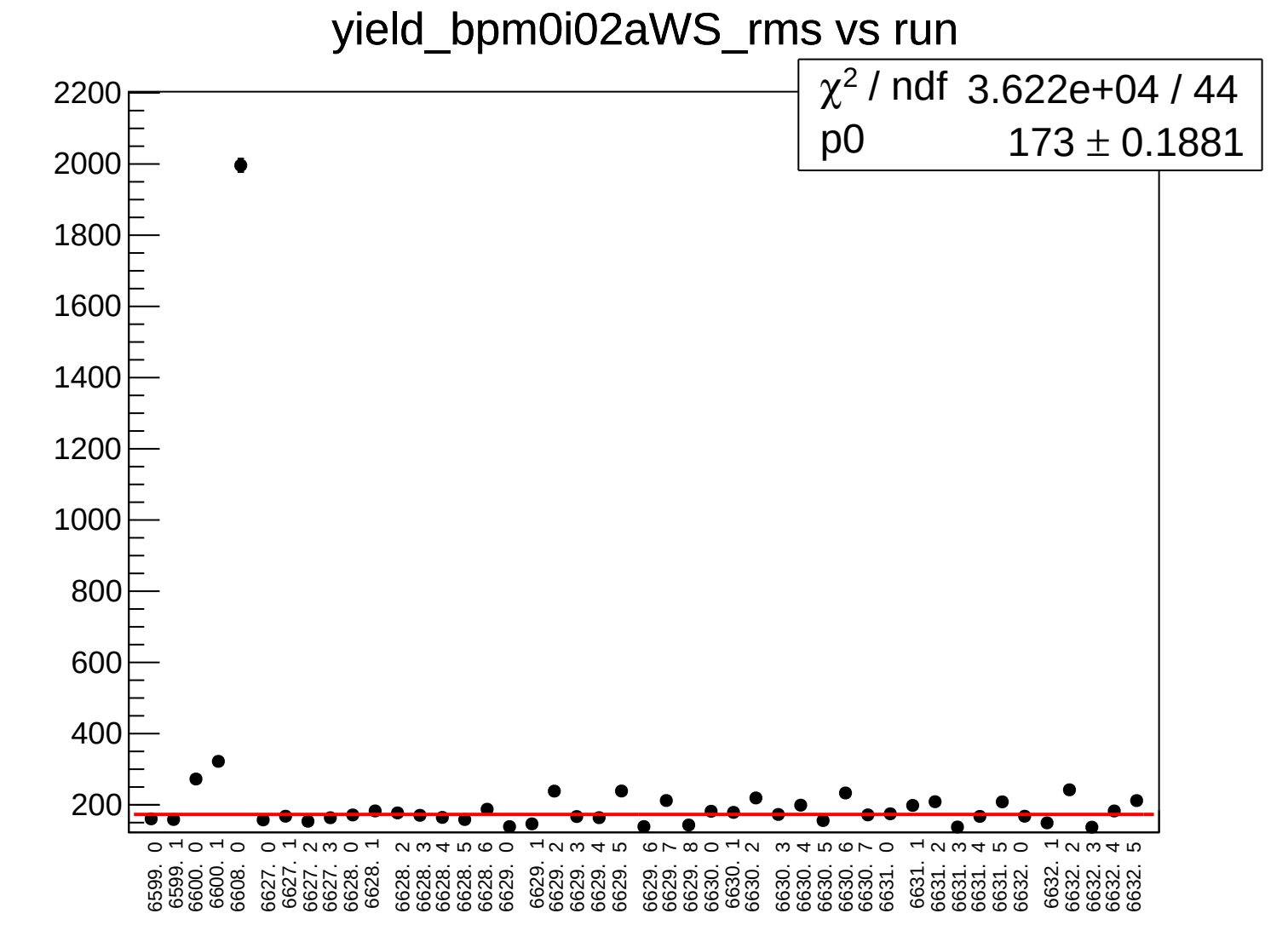

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 4.915e+05 / 44
p0 1.398e+05 ± 0.2648
140.4
140.2
140
139.8
139.6
139.4
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 250.4
Std Dev 0
300
200
100
0
−100

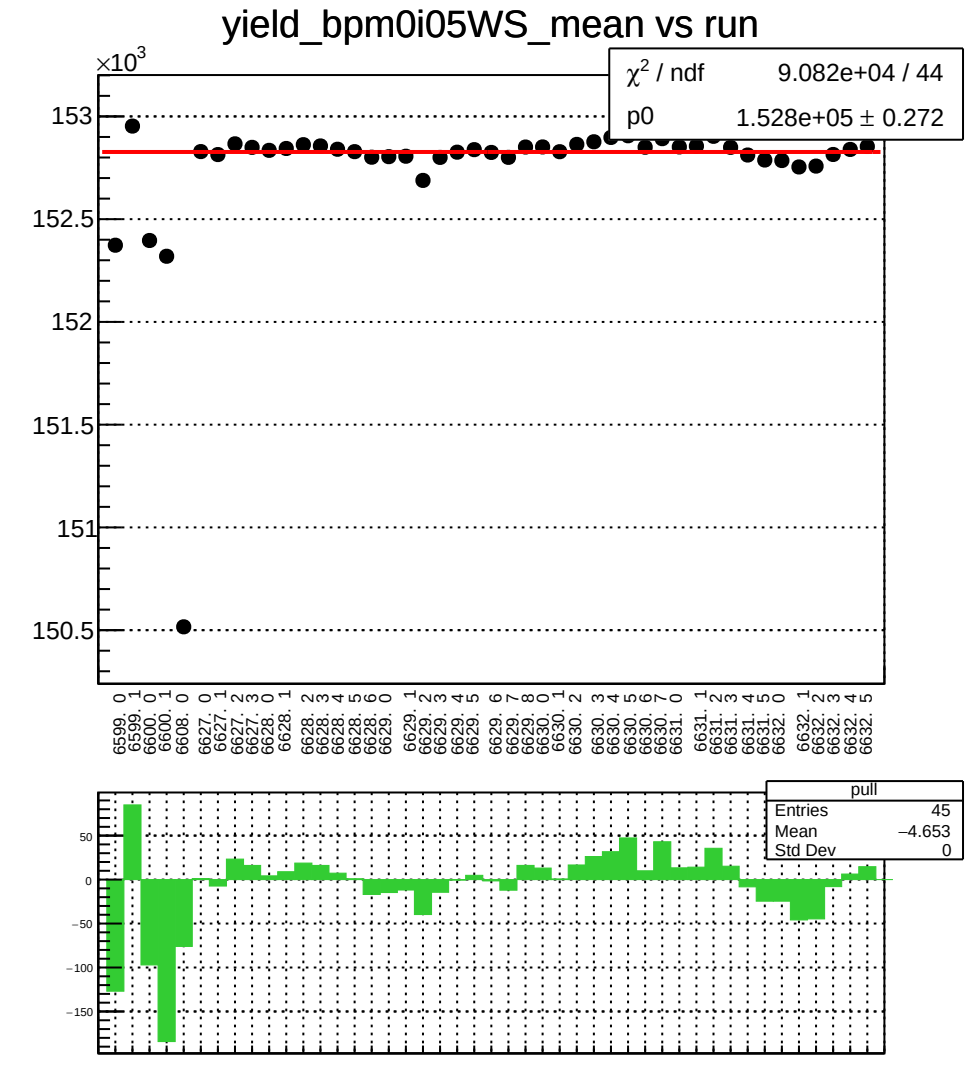

pull1D
Entries 45
Mean 6.63
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

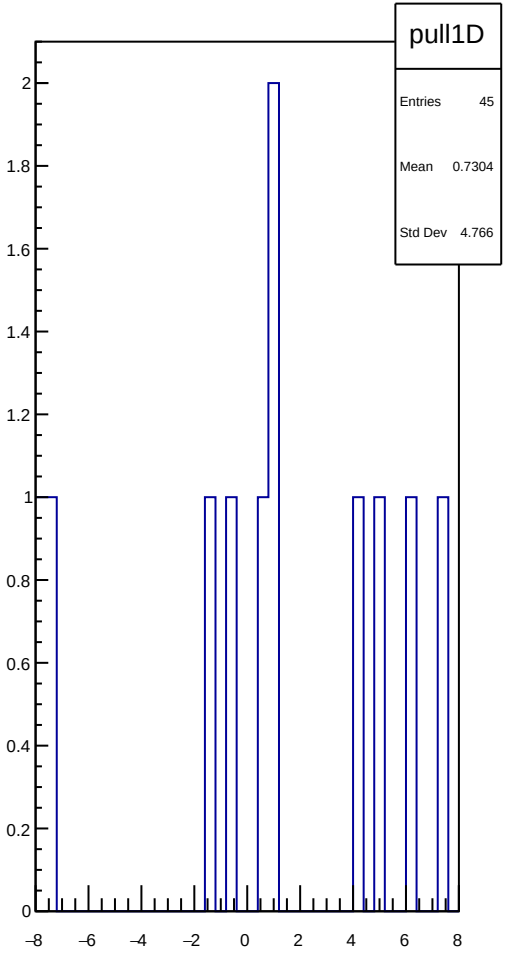

yield_bpm0i02WS_rms vs run
χ² / ndf 3.551e+04 / 44
p0 172.3 ± 0.1873
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

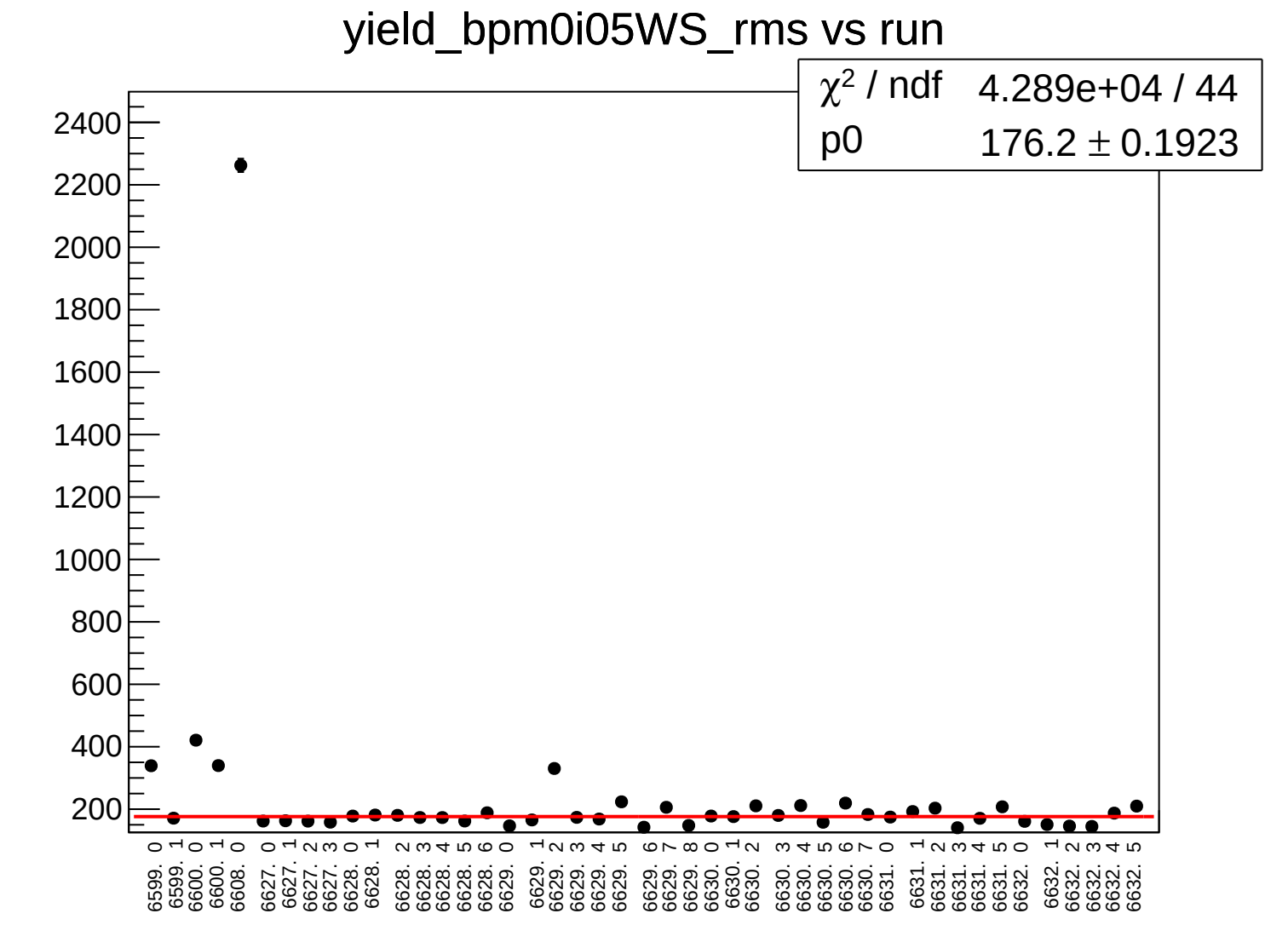

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 4.56e+05 / 44
p0 1.371e+05 ± 0.266
137.6
137.4
137.2
137
136.8
136.6
136.4
136.2
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6628. 0
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 60.68
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

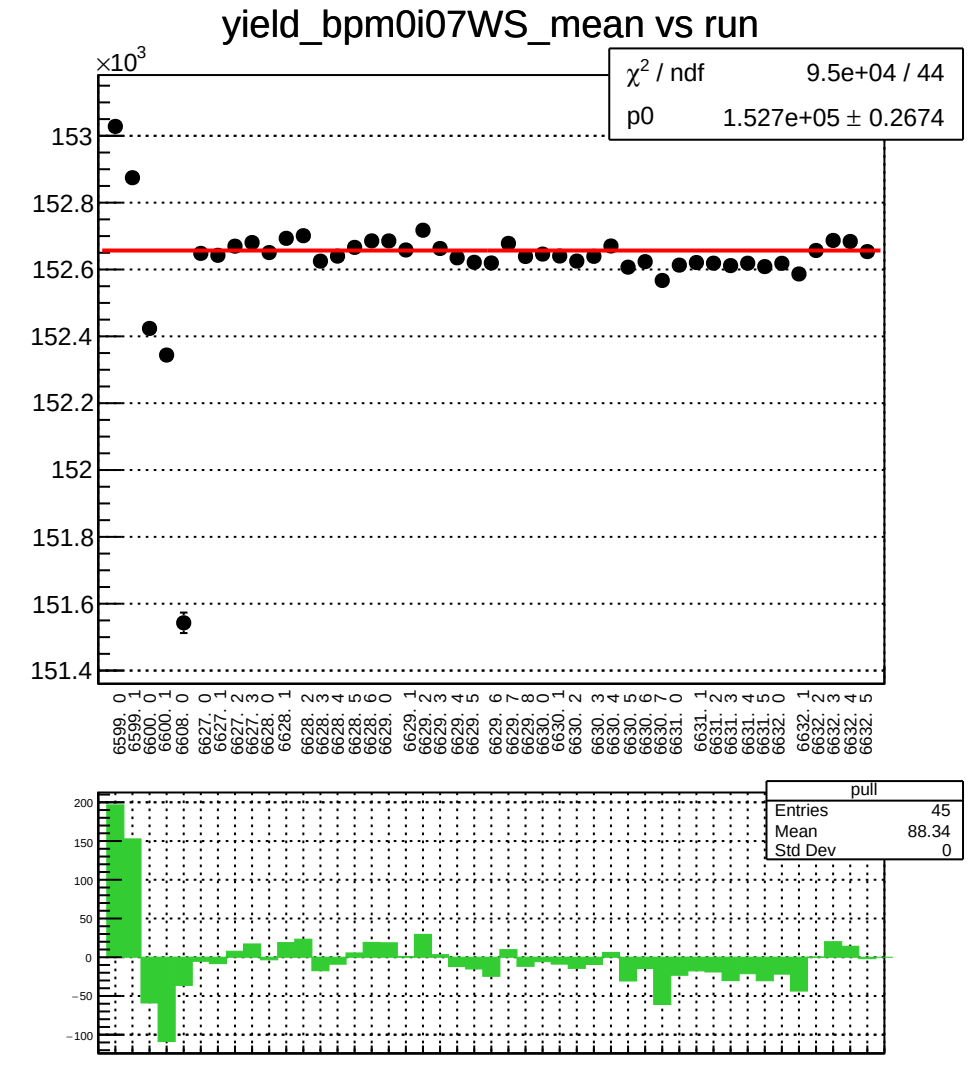

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

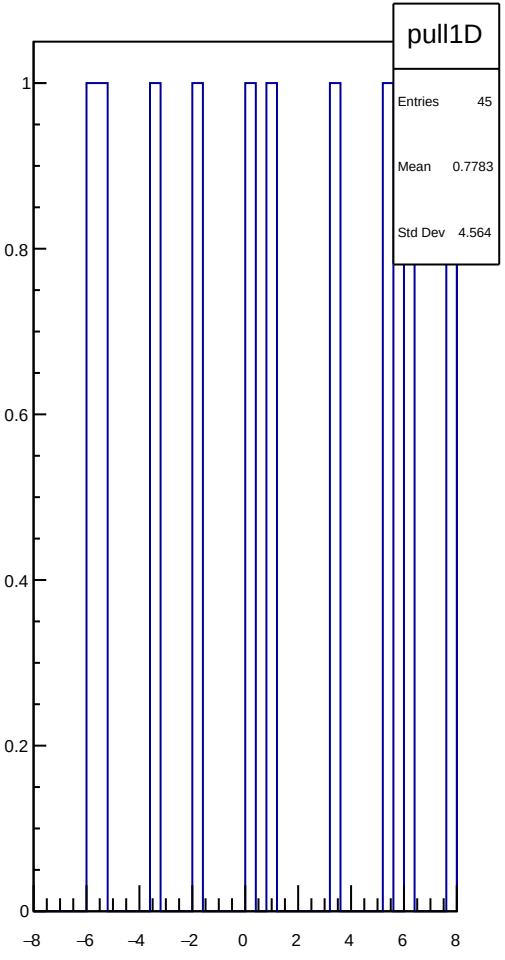

yield_bpm0i02aWS_rms vs run
χ² / ndf 3.622e+04 / 44
p0 173 ± 0.1881
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

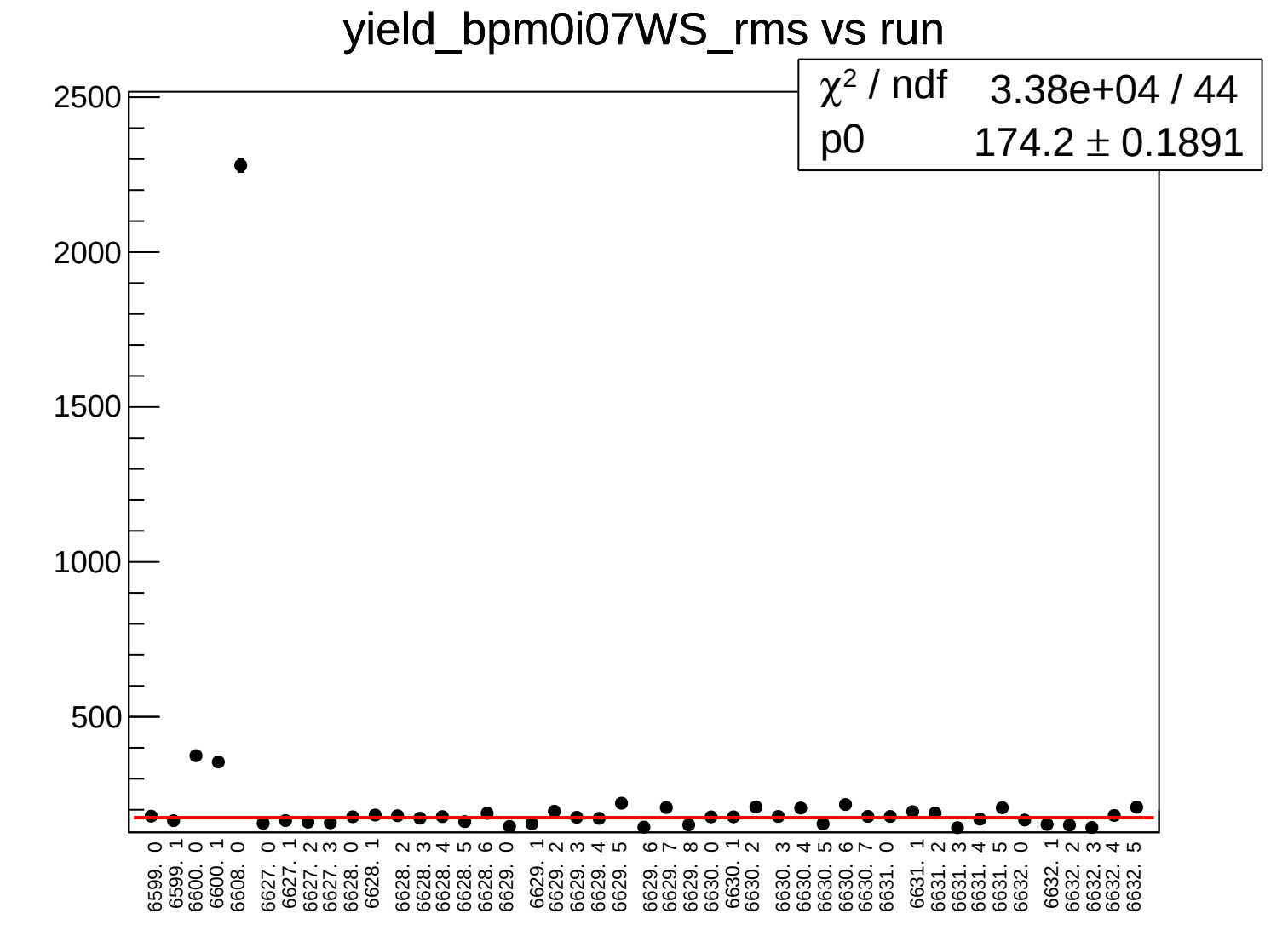

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 9.082e+04 / 44
p0 1.528e+05 ± 0.272
153
152.5
152
151.5
151
150.5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −4.653
Std Dev 0
50
0
−50
−100
−150

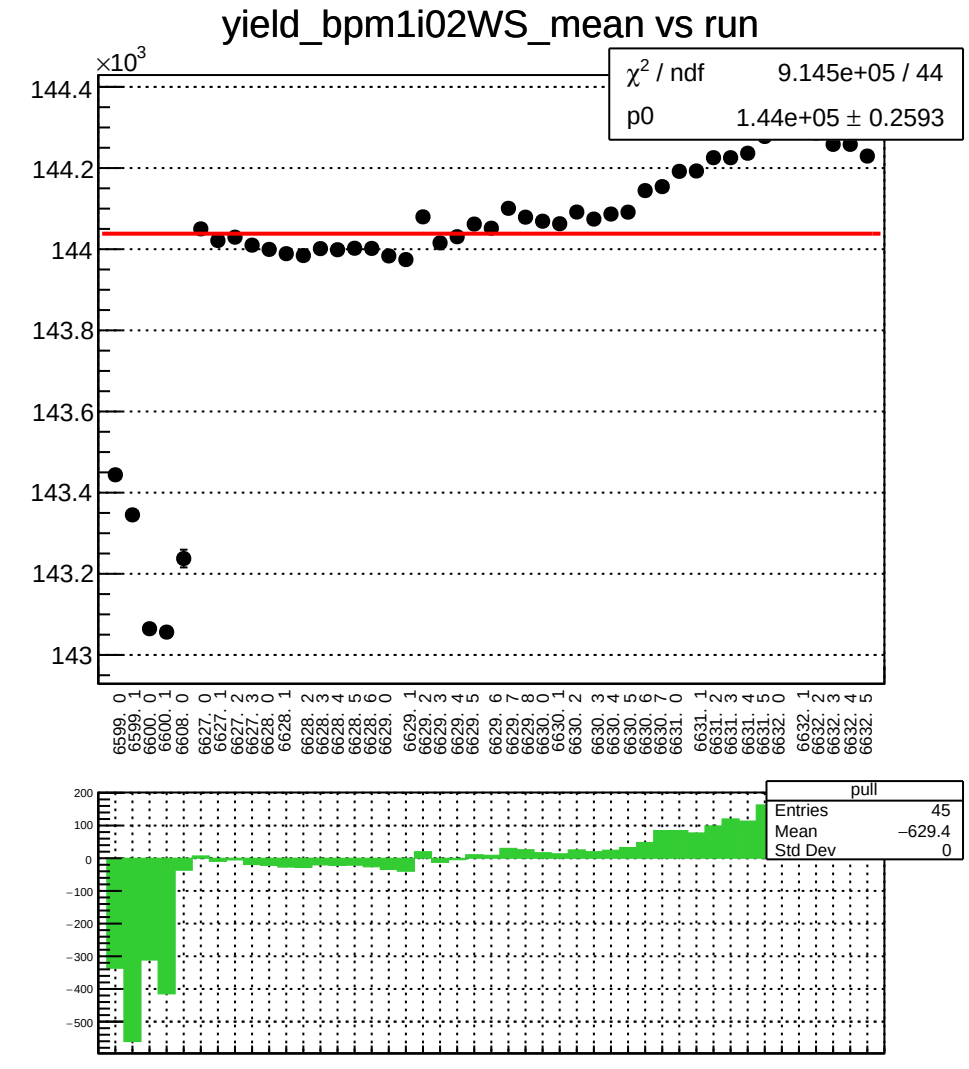

pull1D
Entries 45
Mean 0.7304
Std Dev 4.766
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

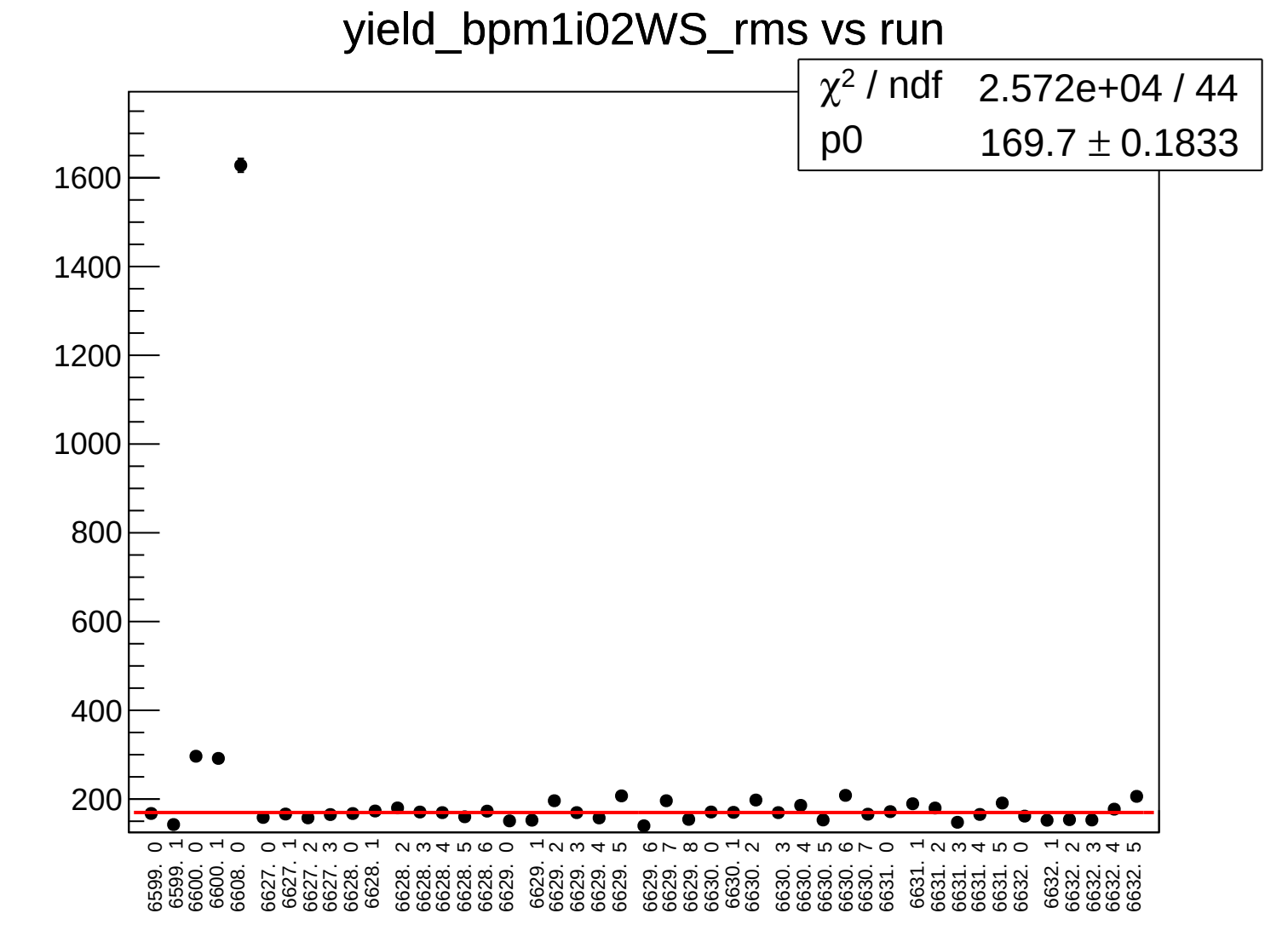

yield_bpm0i05WS_rms vs run
χ² / ndf 4.289e+04 / 44
p0 176.2 ± 0.1923
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

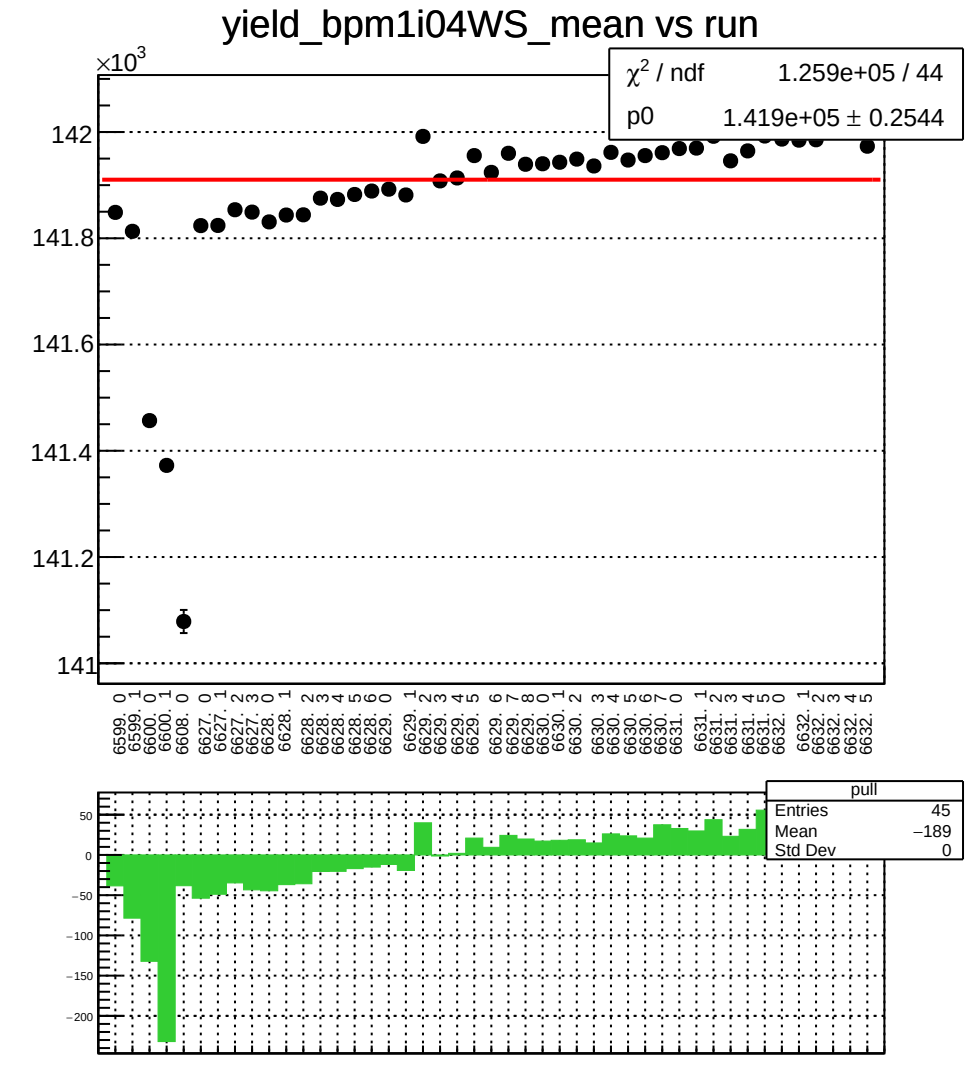

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 9.5e+04 / 44
p0 1.527e+05 ± 0.2674
153
152.8
152.6
152.4
152.2
152
151.8
151.6
151.4
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 88.34
Std Dev 0
200
150
100
50
0
−50
−100

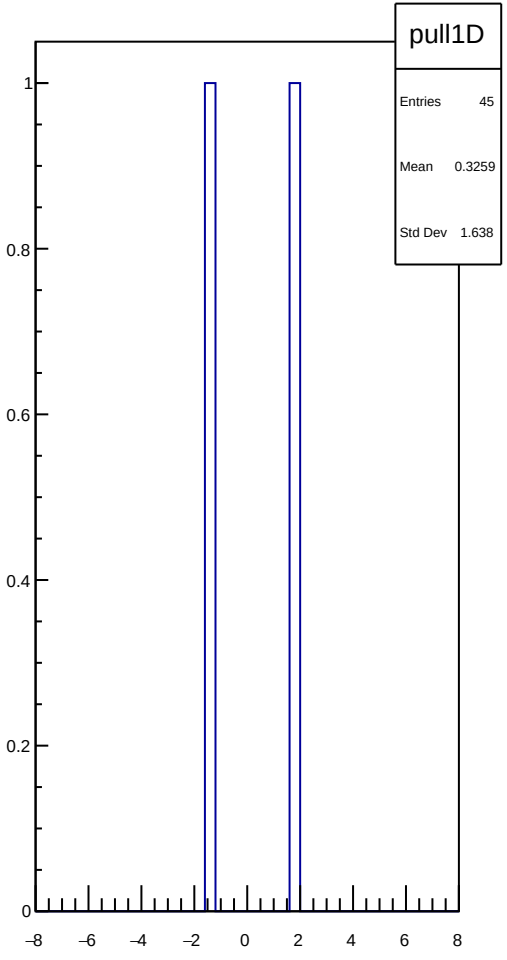

pull1D
Entries 45
Mean 0.7783
Std Dev 4.564
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

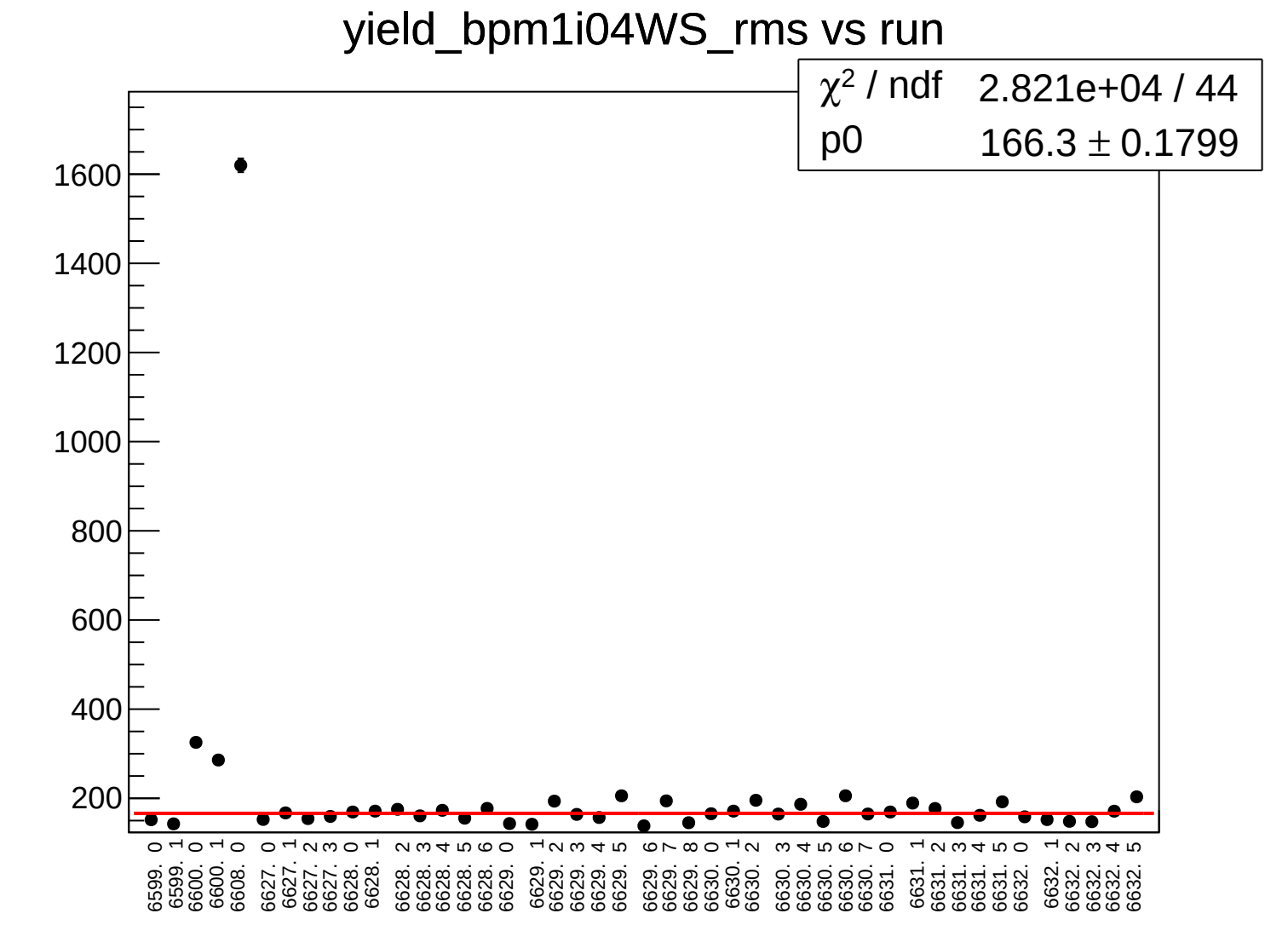

yield_bpm0i07WS_rms vs run
χ² / ndf 3.38e+04 / 44
p0 174.2 ± 0.1891
2500
2000
1500
1000
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

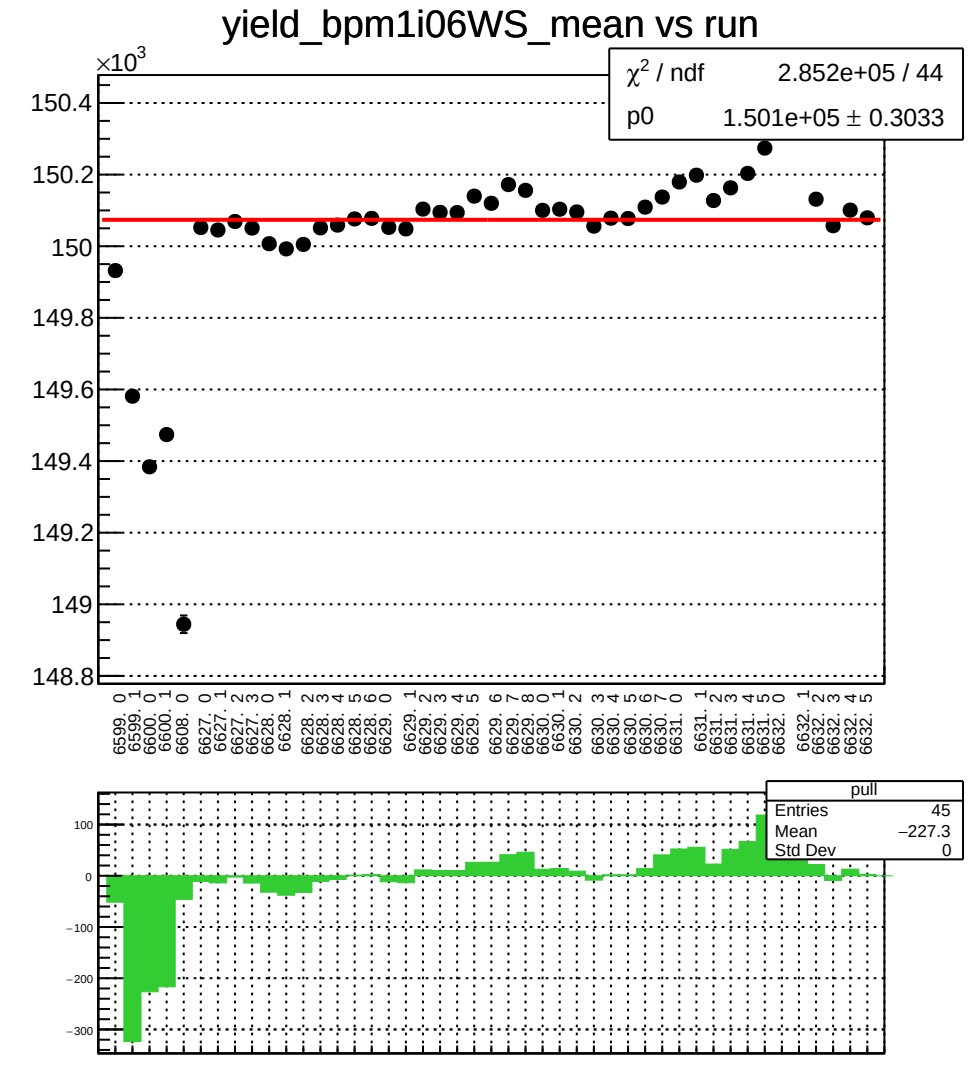

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 9.145e+05 / 44
p0 1.44e+05 ± 0.2593
144.4
144.2
144
143.8
143.6
143.4
143.2
143
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6628. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −629.4
Std Dev 0
200
100
0
−100
−200
−300
−400
−500
pull1D
Entries 45
Mean −0.879
Std Dev 5.635
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

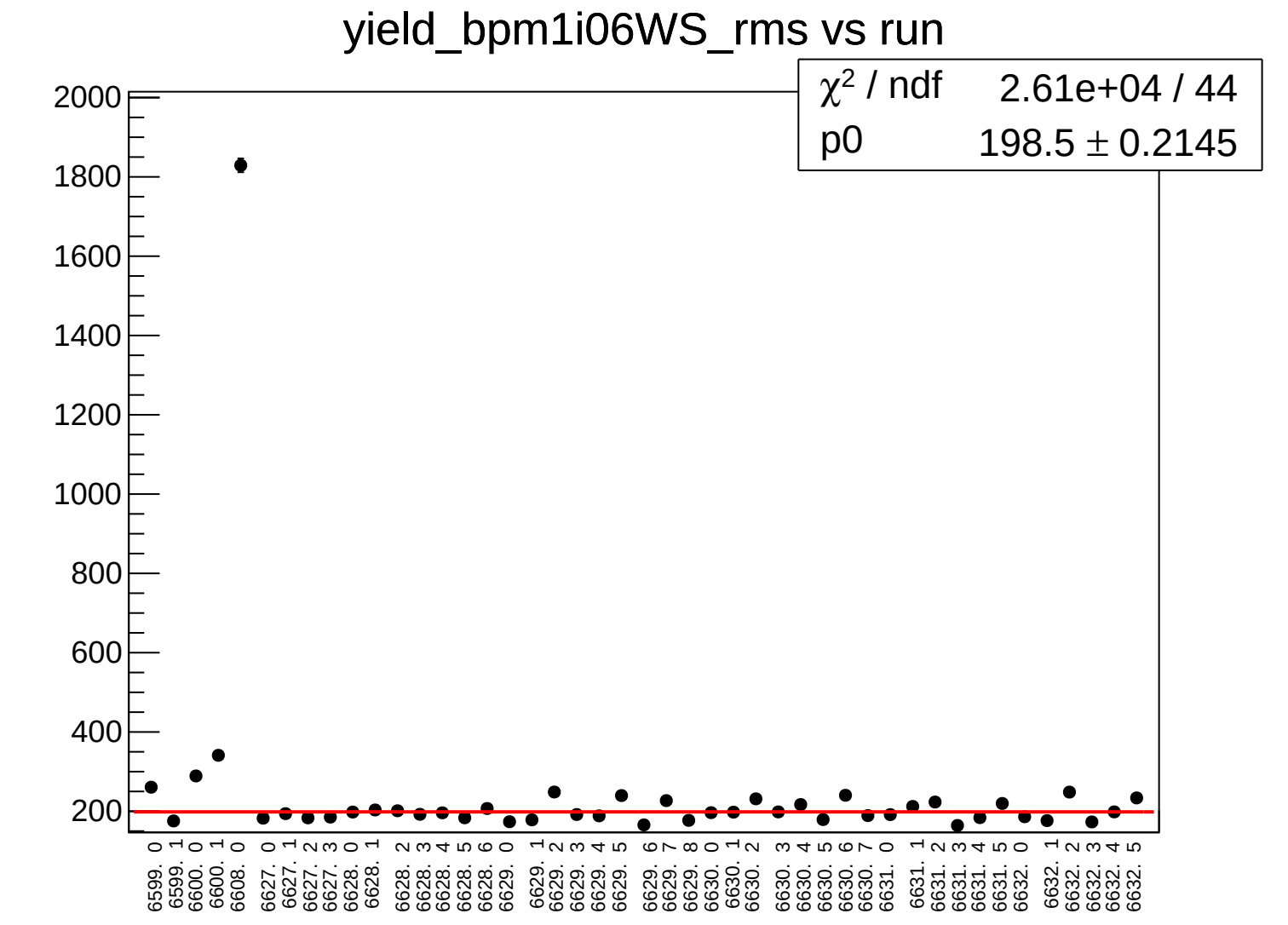

yield_bpm1i02WS_rms vs run
χ² / ndf 2.572e+04 / 44
p0 169.7 ± 0.1833
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

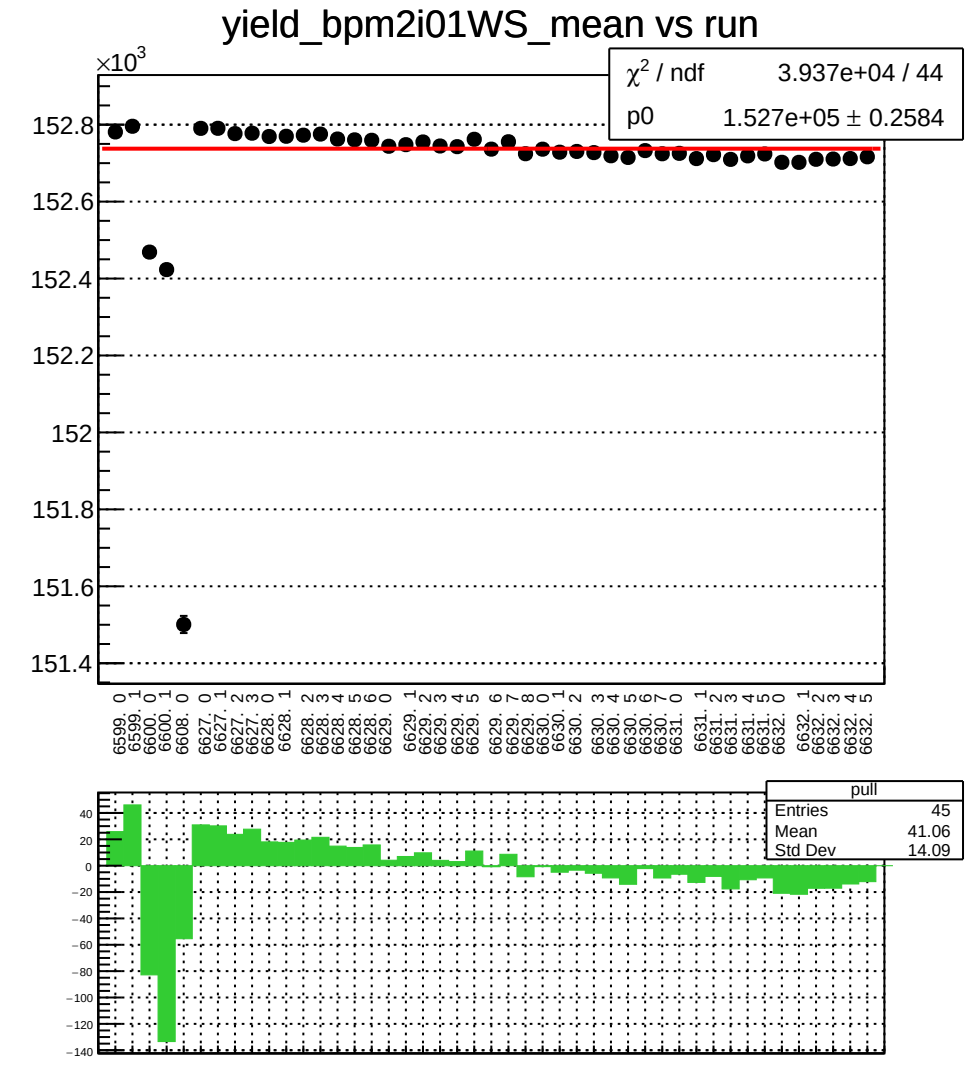

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 1.259e+05 / 44
p0 1.419e+05 ± 0.2544
142
141.8
141.6
141.4
141.2
141
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −189
Std Dev 0
50
0
−50
−100
−150
−200

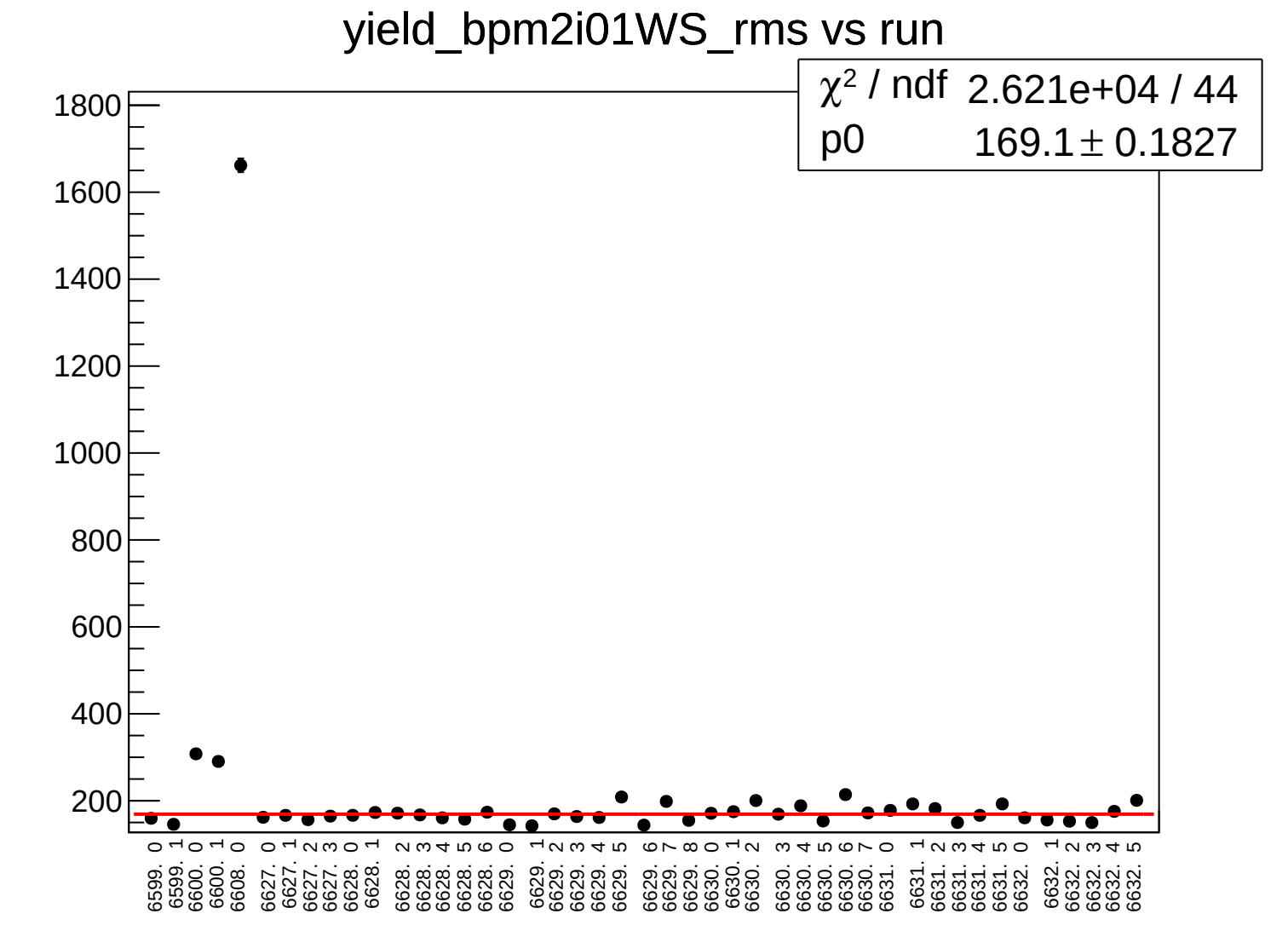

pull1D
Entries 45
Mean 0.3259
Std Dev 1.638
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

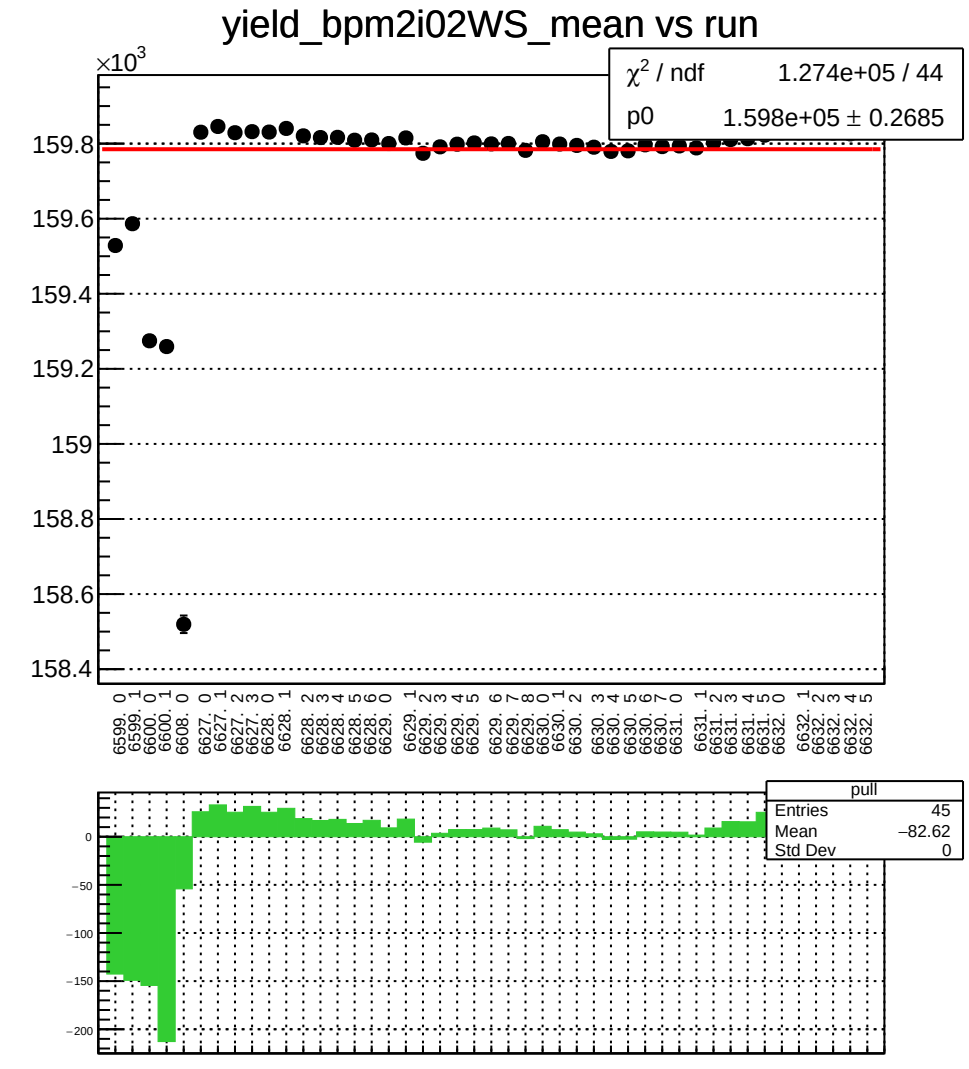

yield_bpm1i04WS_rms vs run
χ² / ndf 2.821e+04 / 44
p0 166.3 ± 0.1799
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

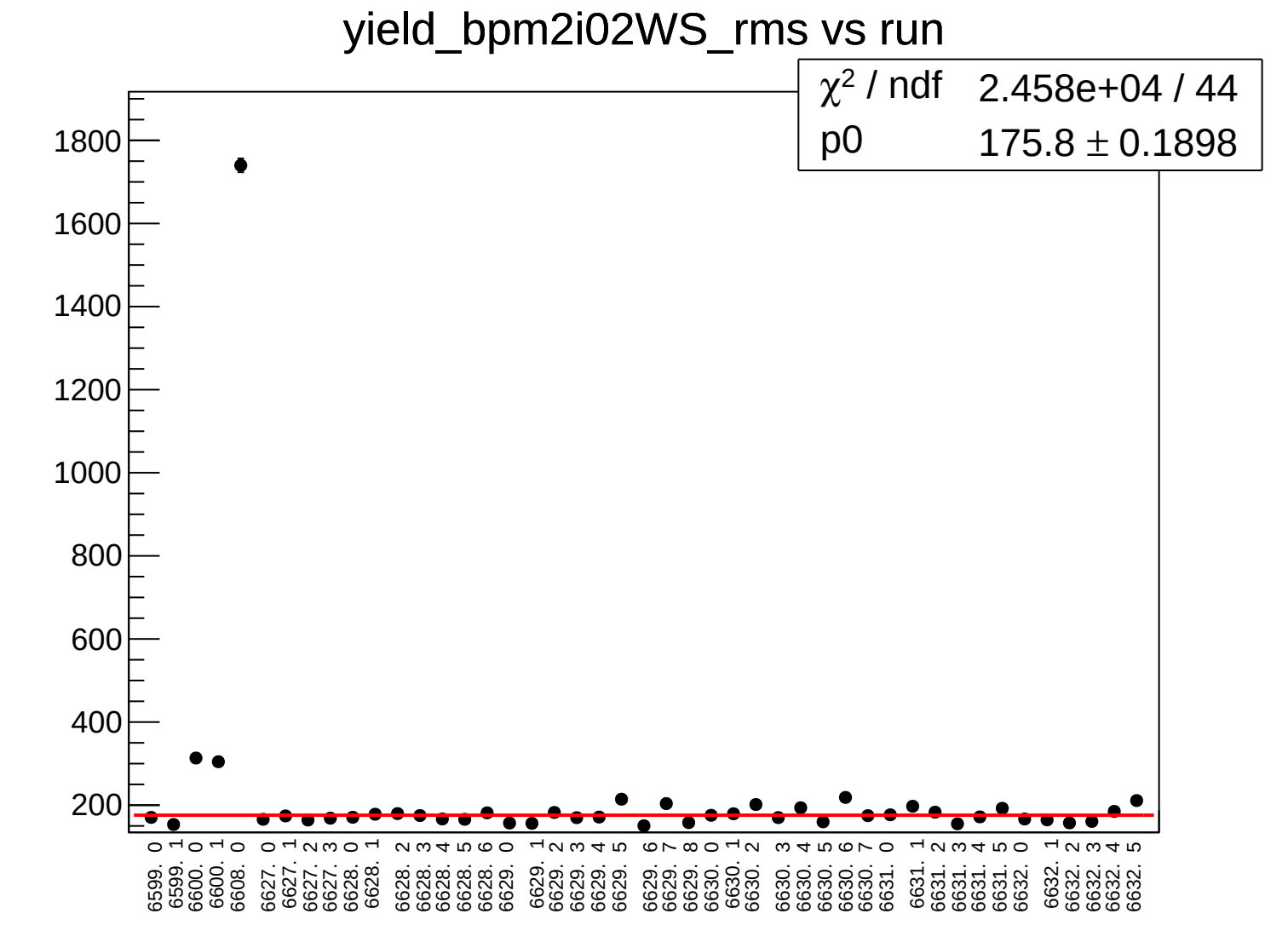

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 2.852e+05 / 44
p0 1.501e+05 ± 0.3033
150.4
150.2
150
149.8
149.6
149.4
149.2
149
148.8
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −227.3
Std Dev 0
100
0
−100
−200
−300
pull1D
Entries 45
Mean 0.08173
Std Dev 3.375
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

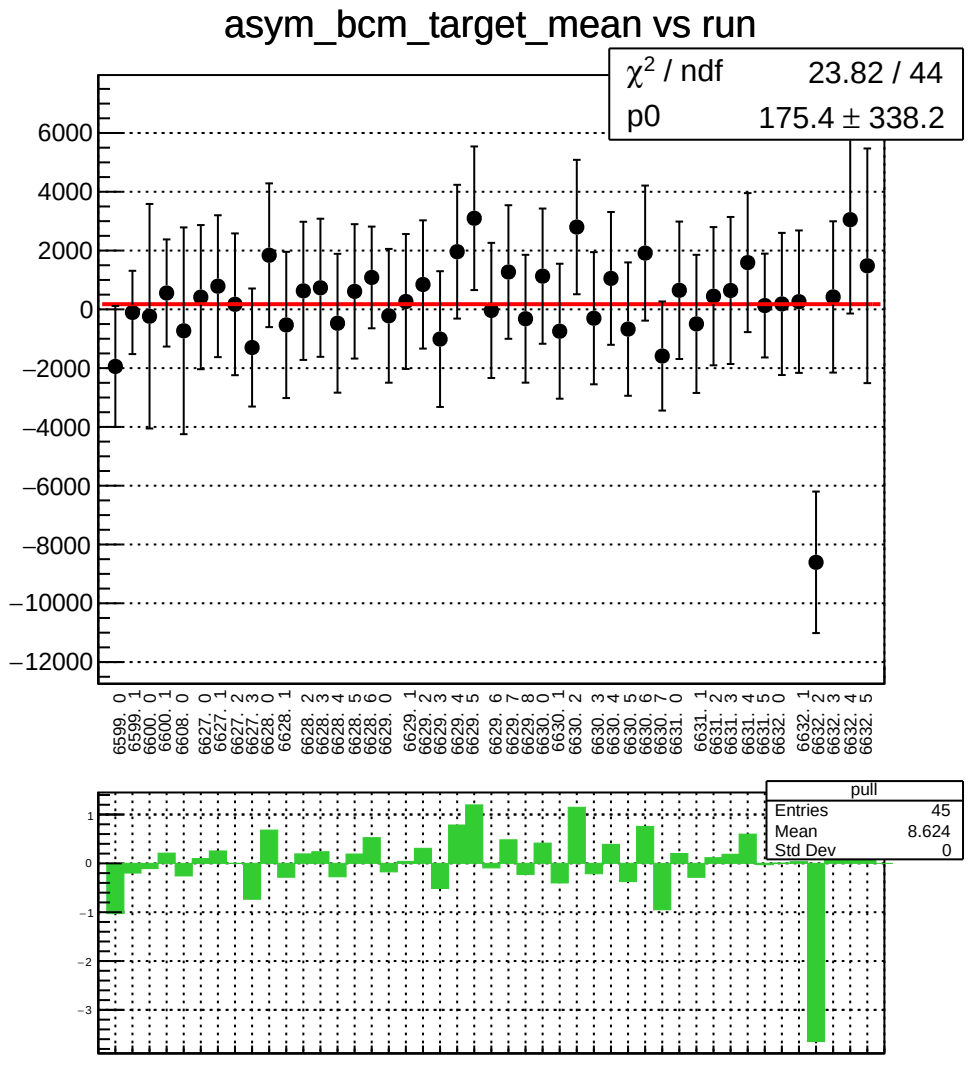

yield_bpm1i06WS_rms vs run
χ² / ndf 2.61e+04 / 44
p0 198.5 ± 0.2145
2000
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

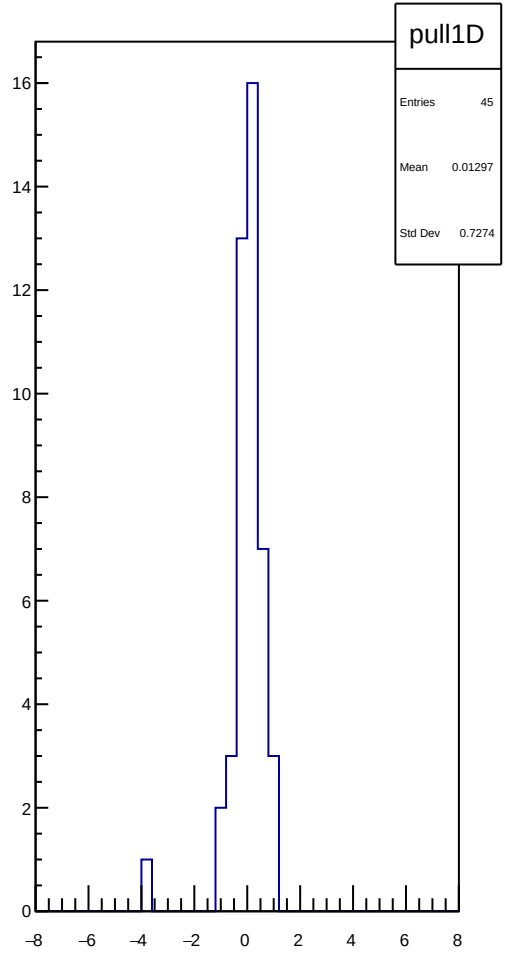

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 3.937e+04 / 44
p0 1.527e+05 ± 0.2584
152.8
152.6
152.4
152.2
152
151.8
151.6
151.4
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6628. 0
6629.
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 41.06
Std Dev 14.09
40
20
0
−20
−40
−60
−80
−100
−120
−140
pull1D
Entries 45
Mean −0.5457
Std Dev 4.315
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

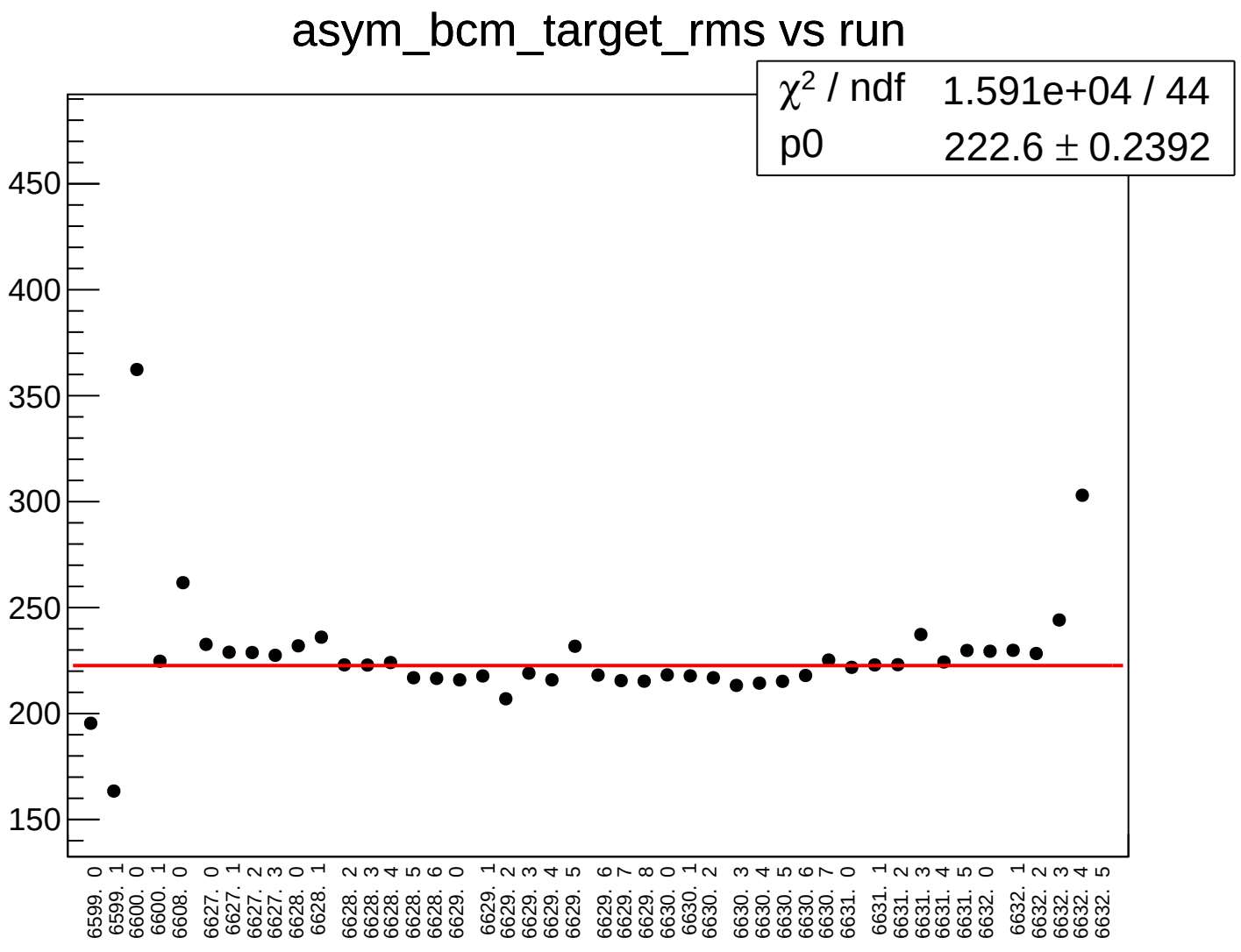

yield_bpm2i01WS_rms vs run
χ² / ndf 2.621e+04 / 44
p0 169.1 ± 0.1827
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

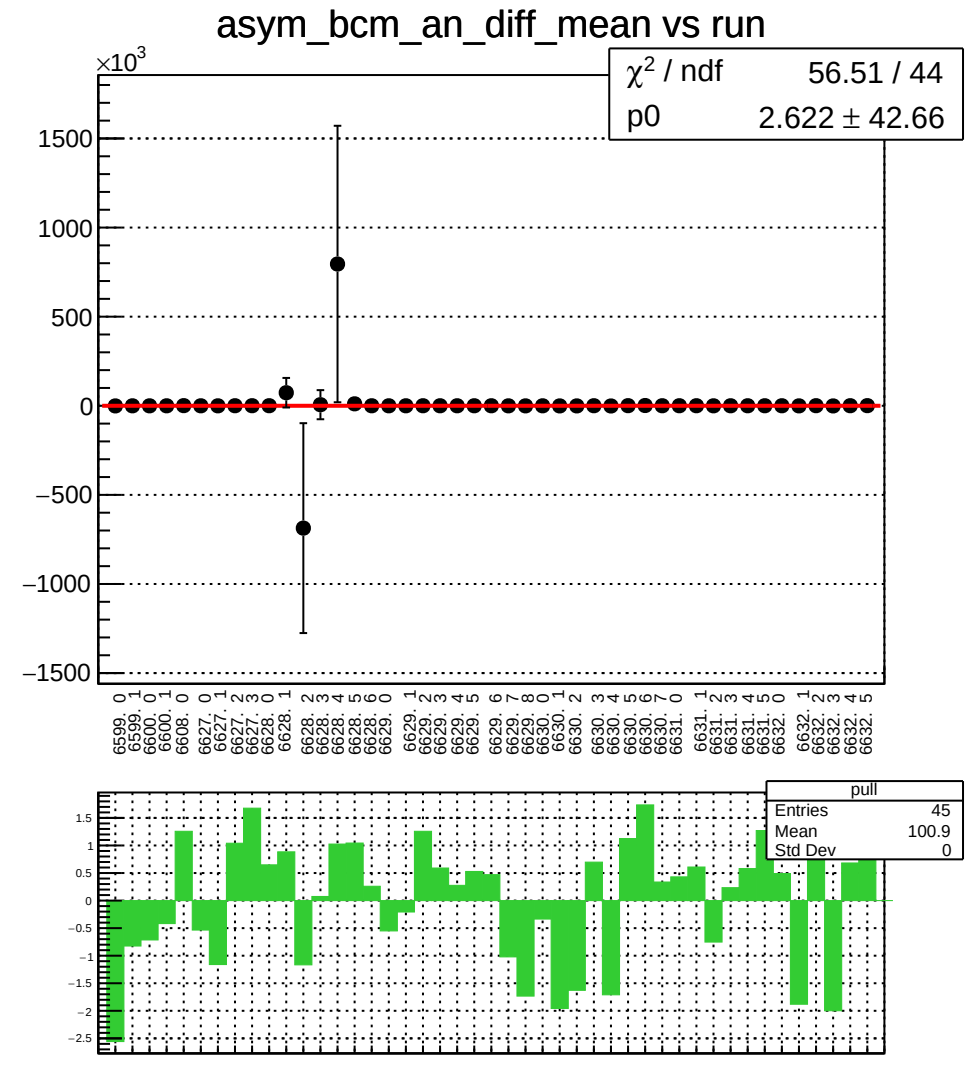

yield_bpm2i02WS_mean vs run
×10^3
χ^2 / ndf 1.274e+05 / 44
p0 1.598e+05 ± 0.2685
159.8
159.6
159.4
159.2
159
158.8
158.6
158.4
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −82.62
Std Dev 0
0
−50
−100
−150
−200
pull1D
Entries 45
Mean 2.943
Std Dev 4.116
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

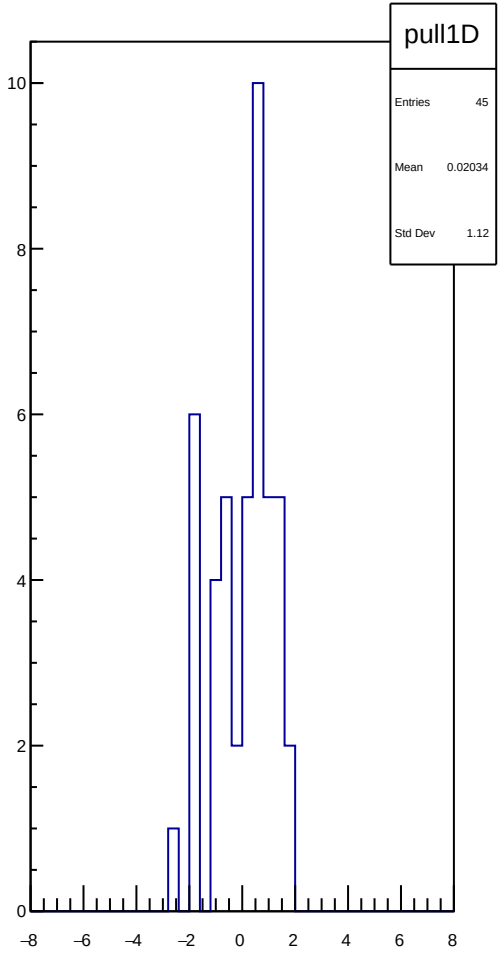

yield_bpm2i02WS_rms vs run
χ² / ndf 2.458e+04 / 44
p0 175.8 ± 0.1898
1800
1600
1400
1200
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

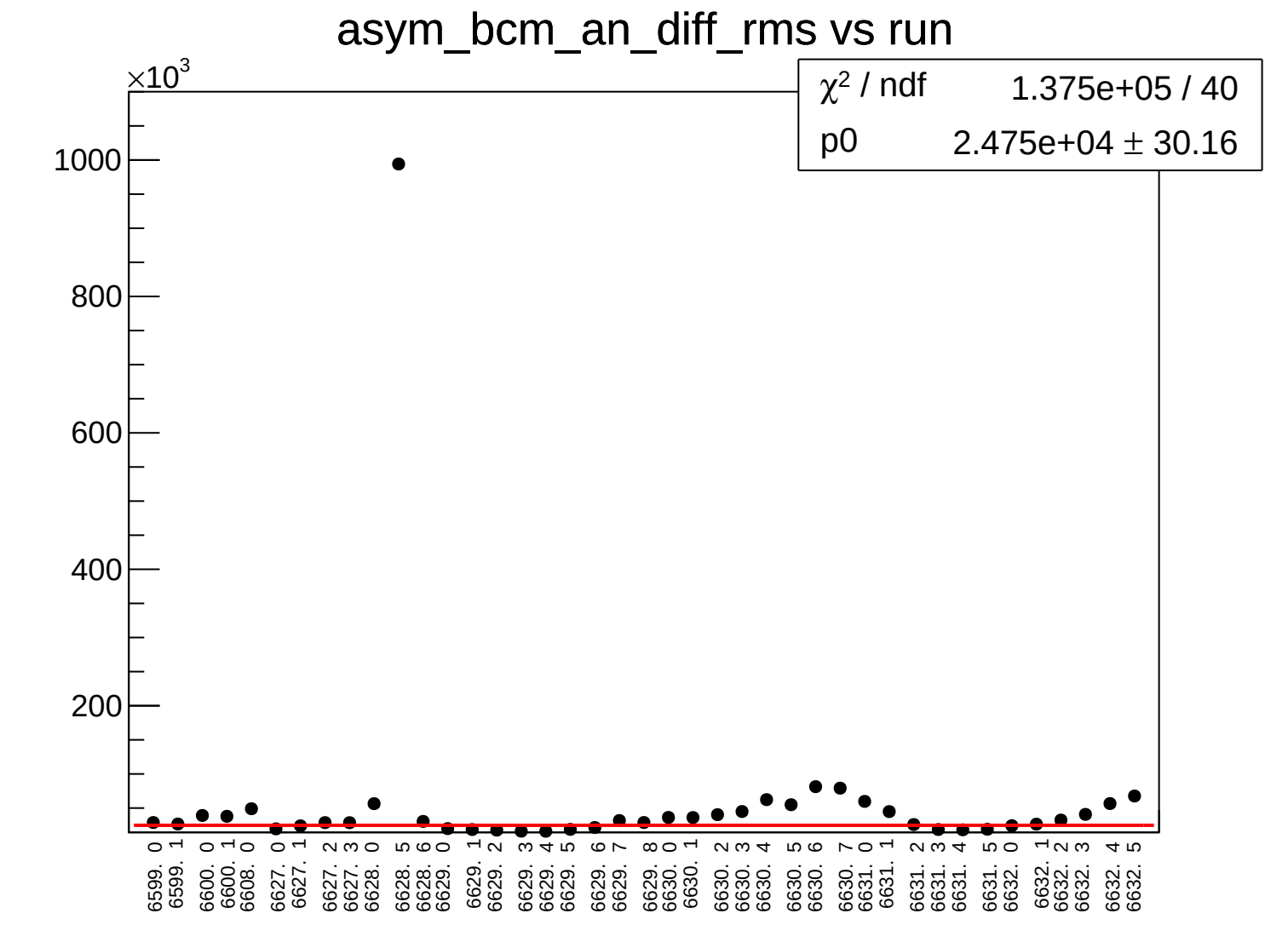

asym_bcm_target_mean vs run
χ² / ndf 23.82 / 44
p0 175.4 ± 338.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 8.624
Std Dev 0
1
0
−1
−2
−3

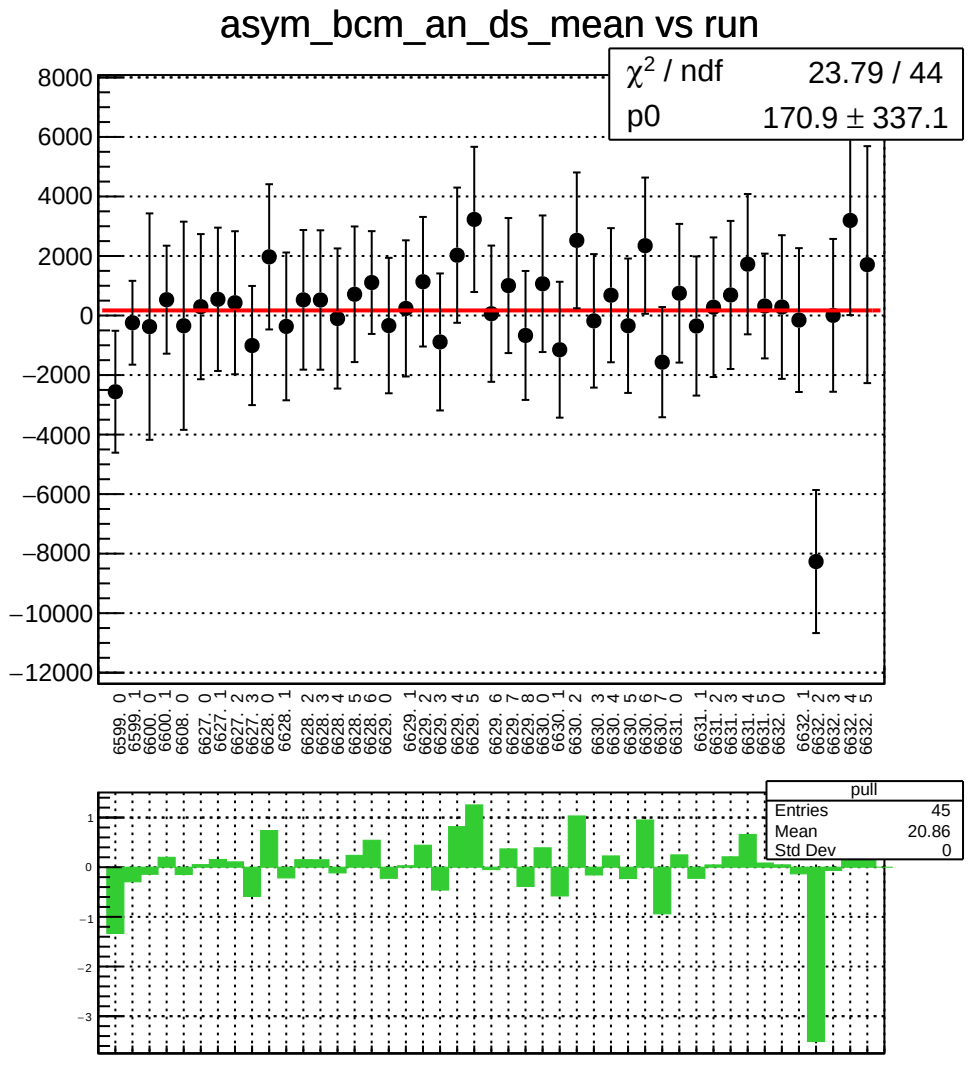

pull1D
Entries 45
Mean 0.01297
Std Dev 0.7274
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

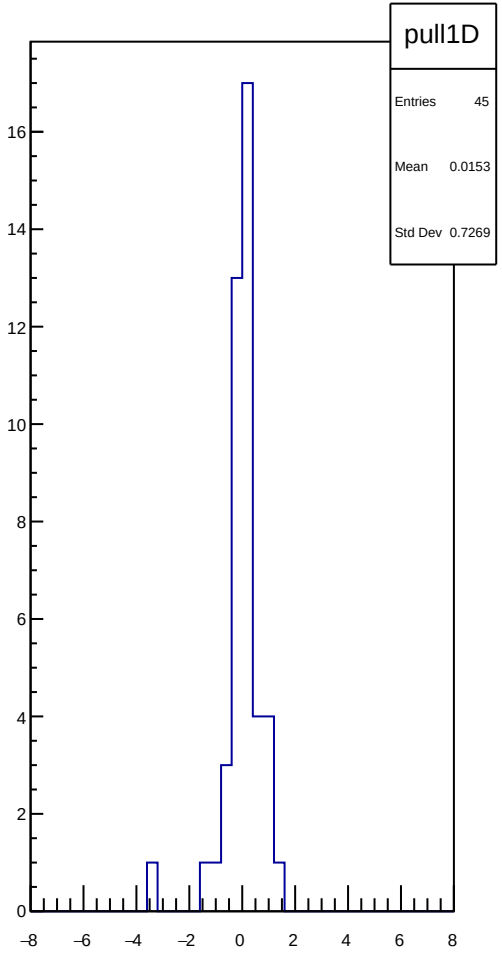

asym_bcm_target_rms vs run
χ² / ndf 1.591e+04 / 44
p0 222.6 ± 0.2392
450
400
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

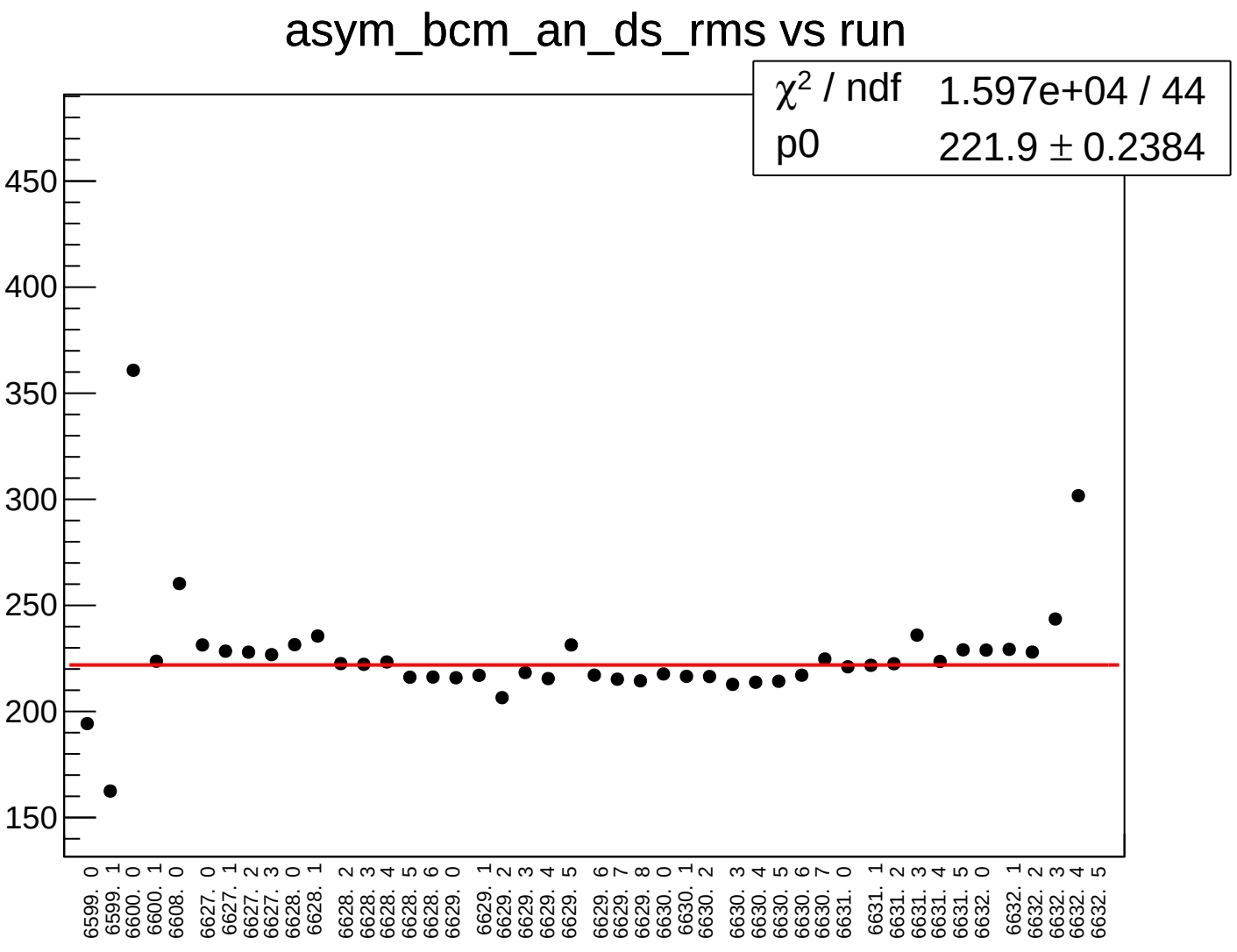

asym_bcm_an_diff_mean vs run
×10^3
χ² / ndf 56.51 / 44
p0 2.622 ± 42.66
1500
1000
500
0
−500
−1000
−1500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 100.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

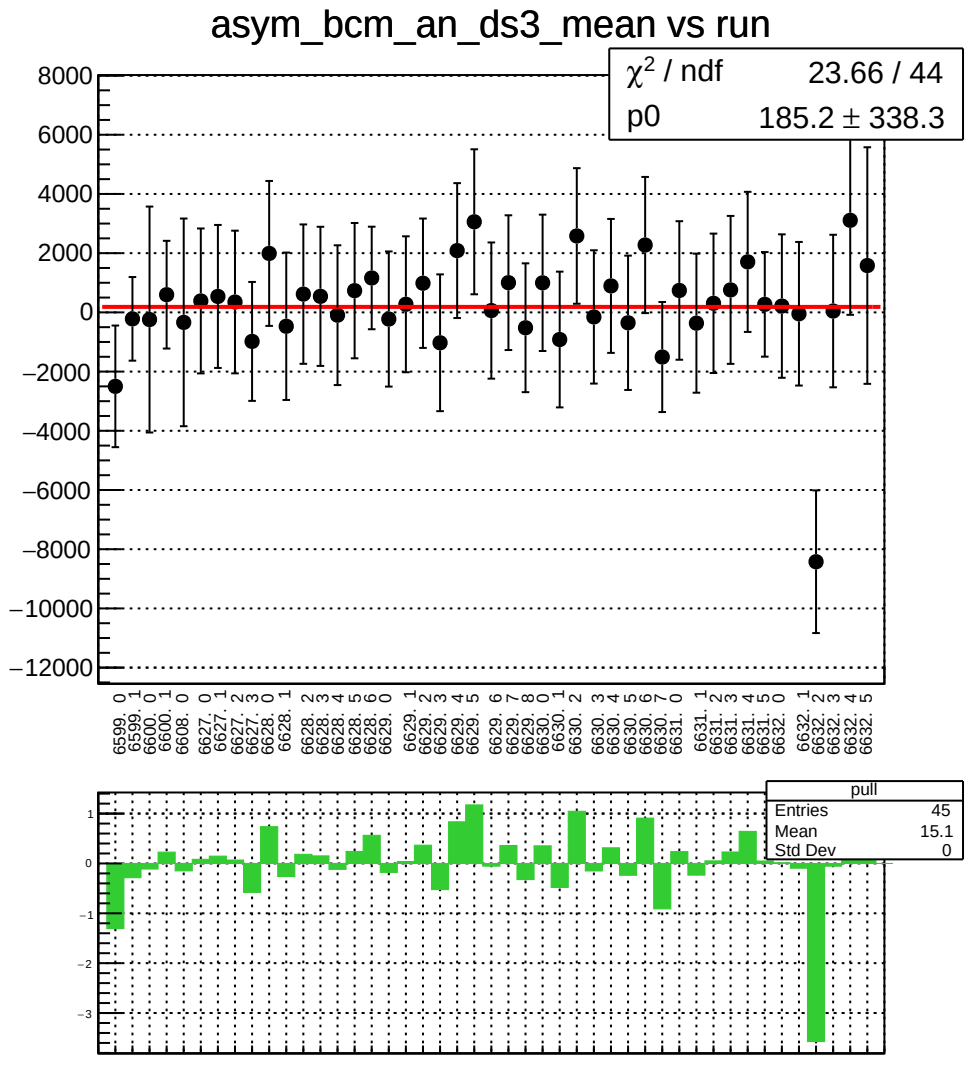

pull1D
Entries 45
Mean 0.02034
Std Dev 1.12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

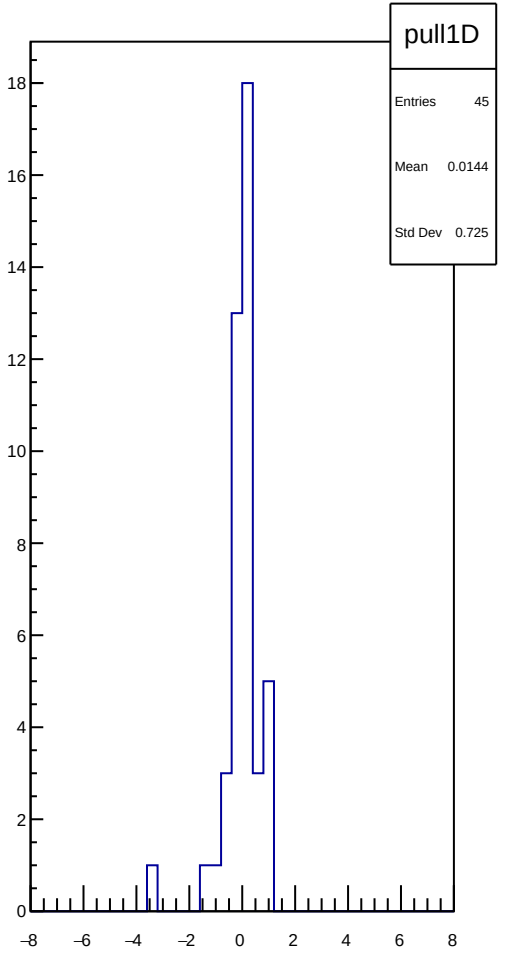

asym_bcm_an_diff_rms vs run
×10^3
χ² / ndf 1.375e+05 / 40
p0 2.475e+04 ± 30.16
1000
800
600
400
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

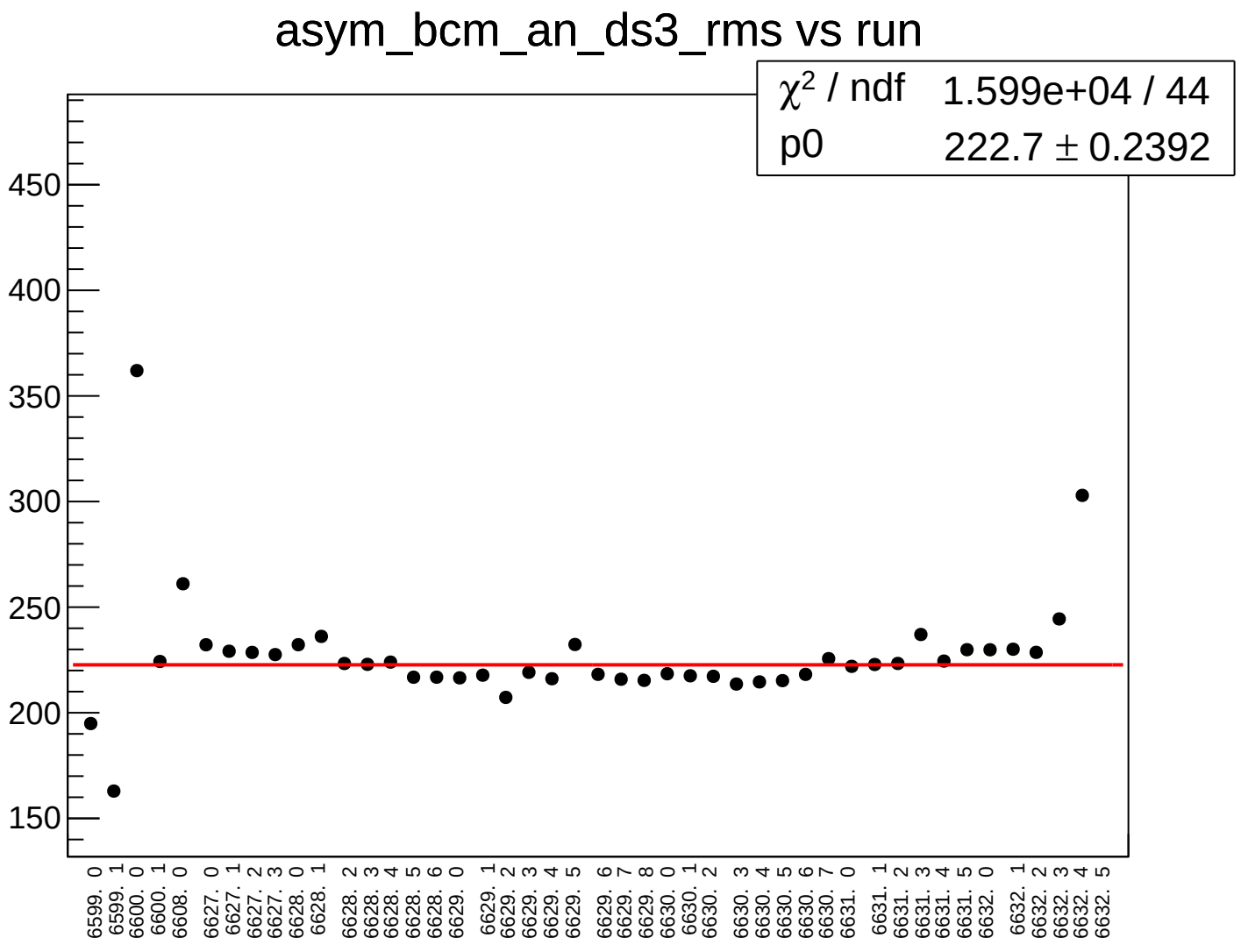

asym_bcm_an_ds_mean vs run
χ² / ndf 23.79 / 44
p0 170.9 ± 337.1
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 20.86
Std Dev 0
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.0153
Std Dev 0.7269
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_an_ds_rms vs run
χ² / ndf 1.597e+04 / 44
p0 221.9 ± 0.2384
450
400
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_bcm_an_ds3_mean vs run
χ² / ndf 23.66 / 44
p0 185.2 ± 338.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 15.1
Std Dev 0
1
0
−1
−2
−3




asym_bcm_an_ds3_rms vs run
χ² / ndf 1.599e+04 / 44
p0 222.7 ± 0.2392
450
400
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
6632. 0
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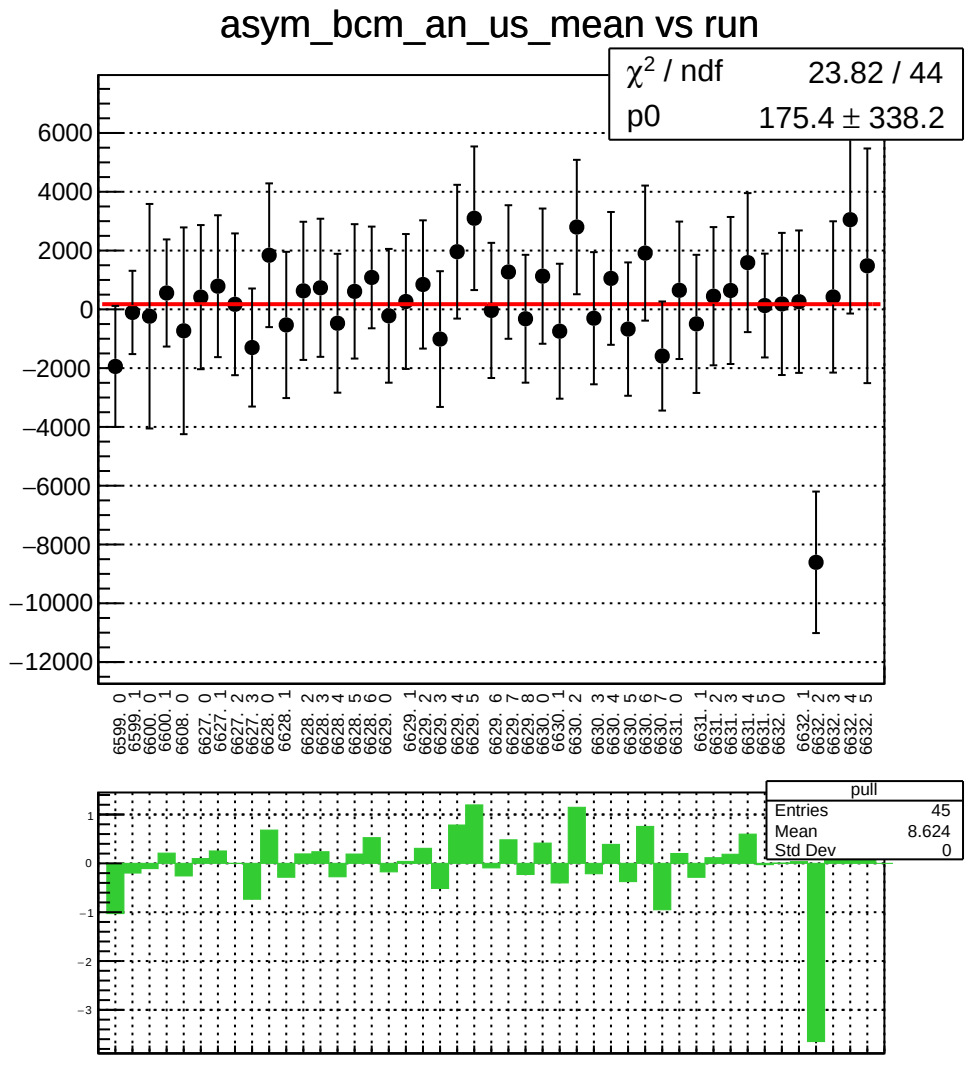
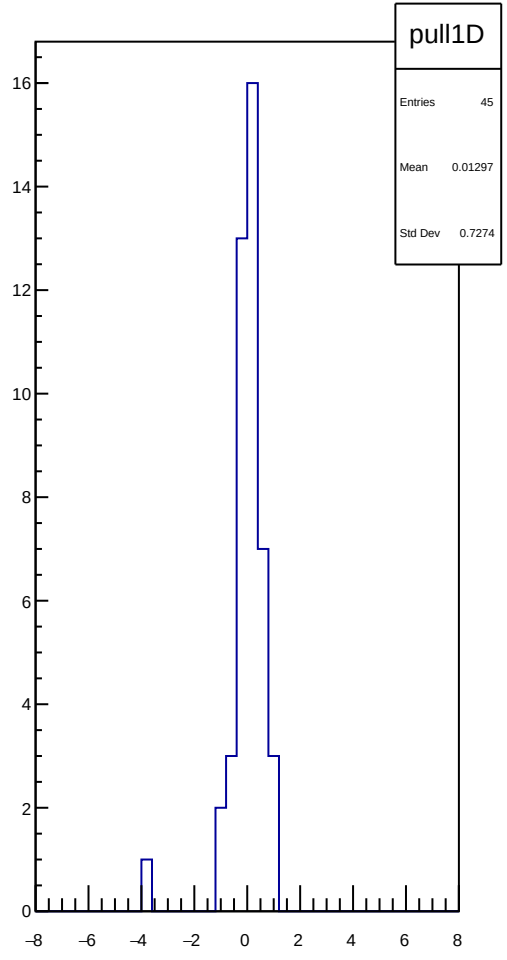
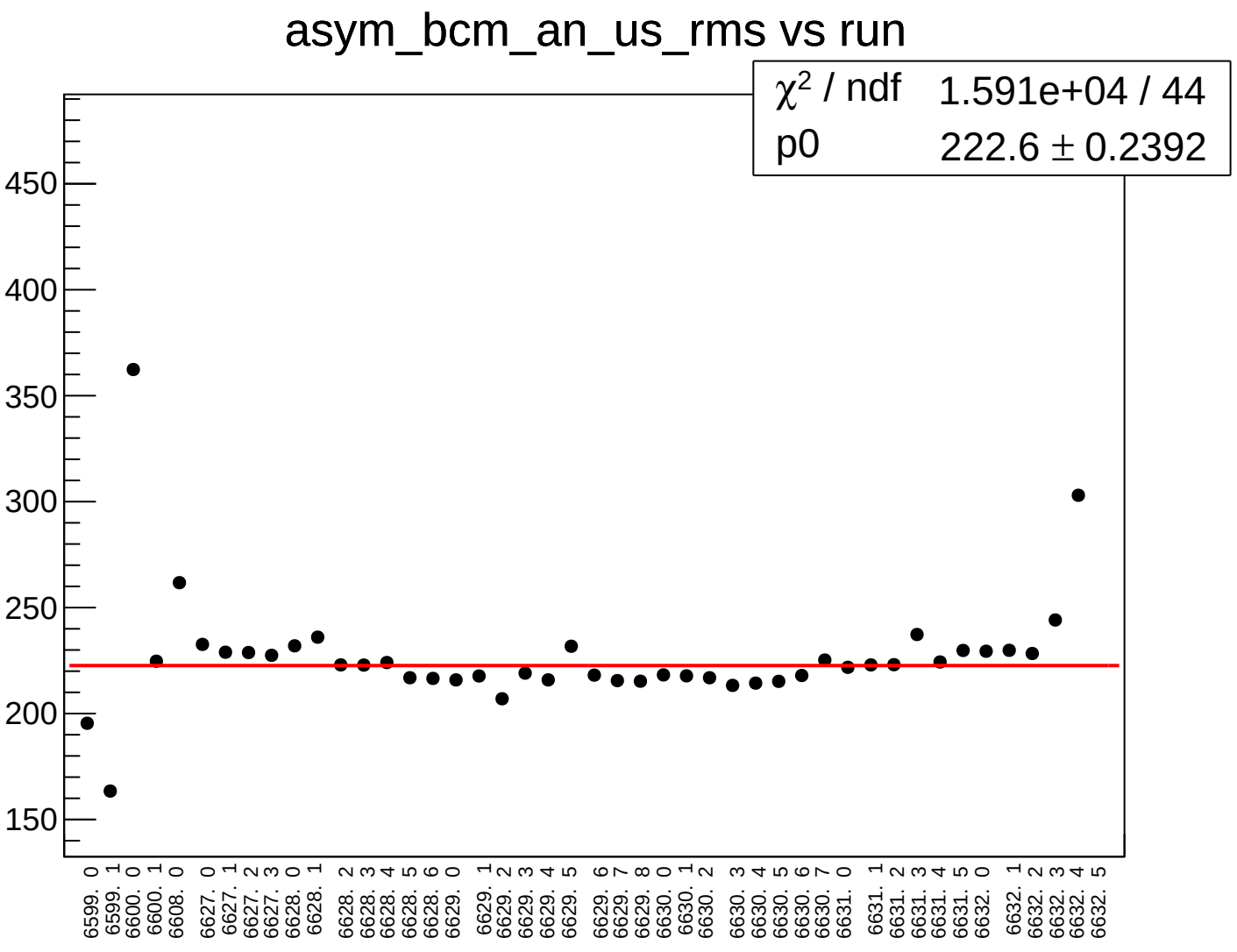
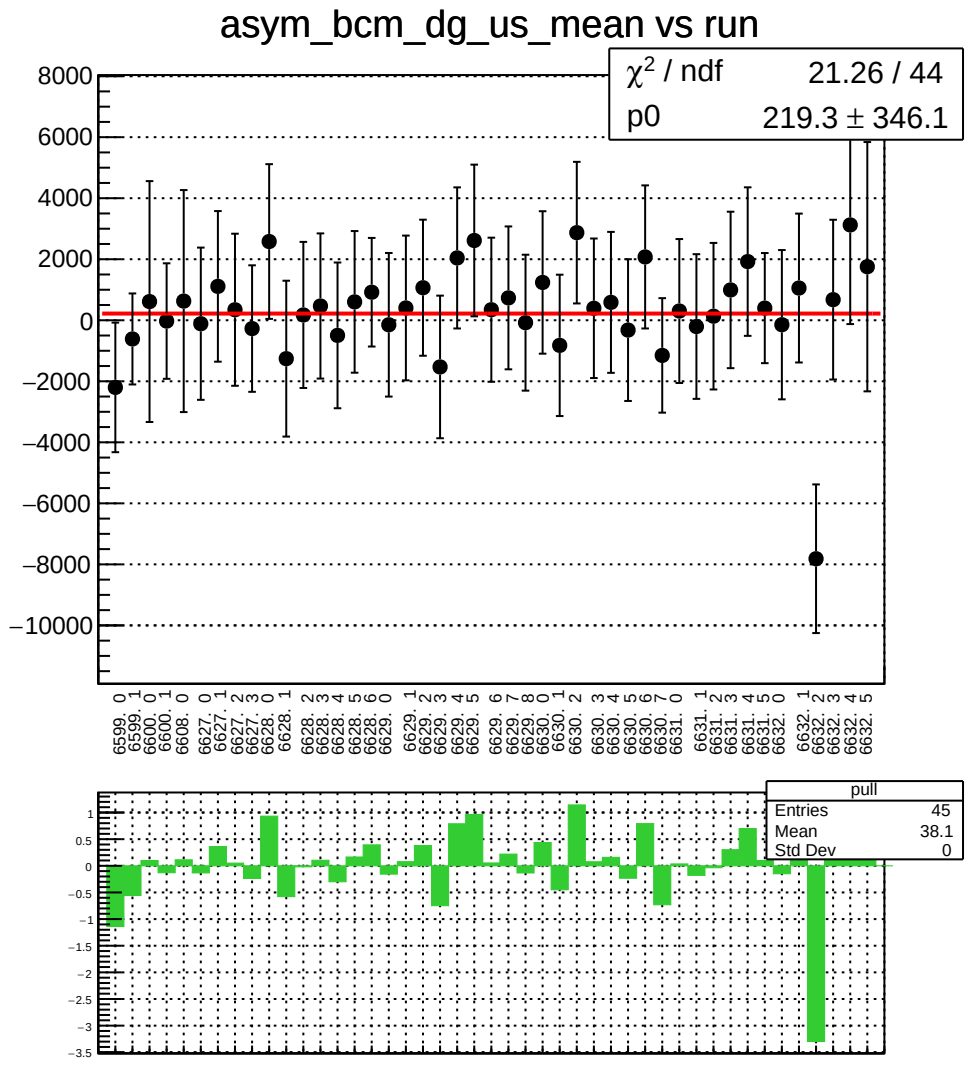
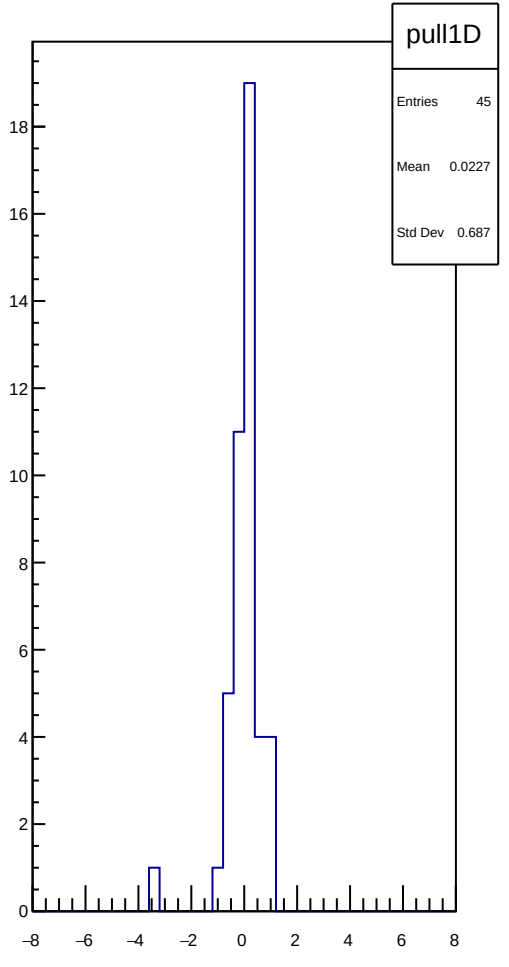
6632. 2
6632. 3
6632. 4
6632. 5

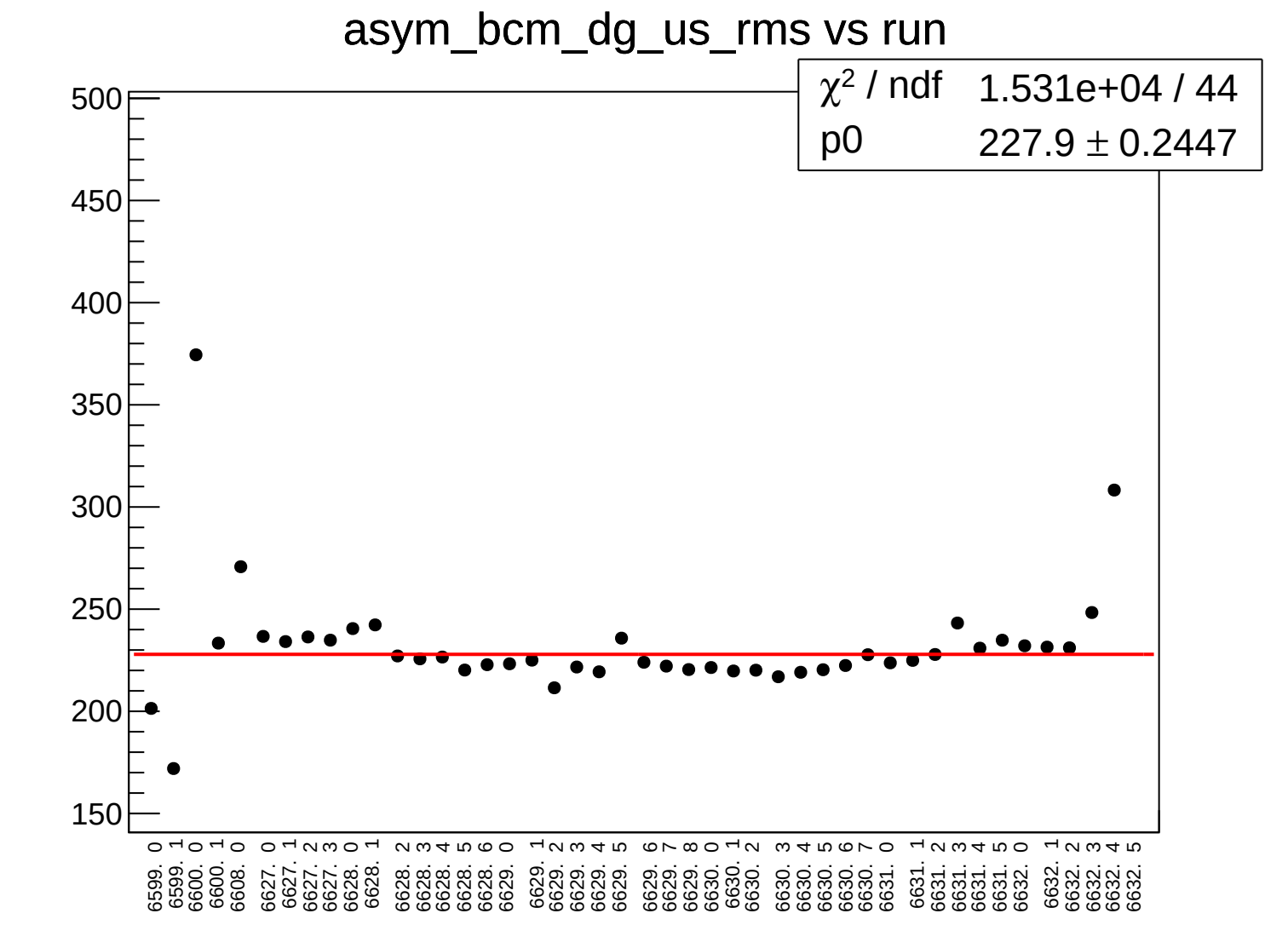

asym_bcm_an_us_mean vs run
χ² / ndf 23.82 / 44
p0 175.4 ± 338.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 8.624
Std Dev 0
1
0
−1
−2
−3

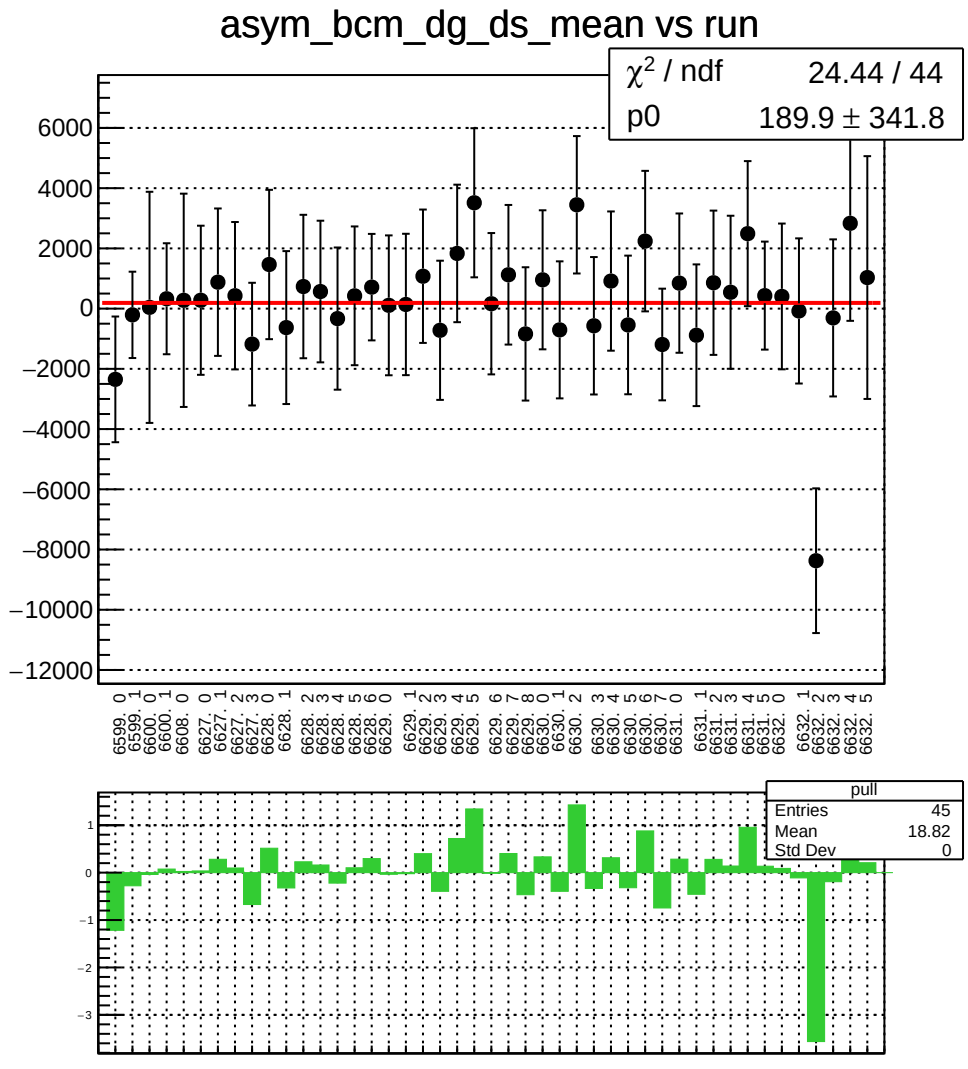

pull1D
Entries 45
Mean 0.01297
Std Dev 0.7274
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

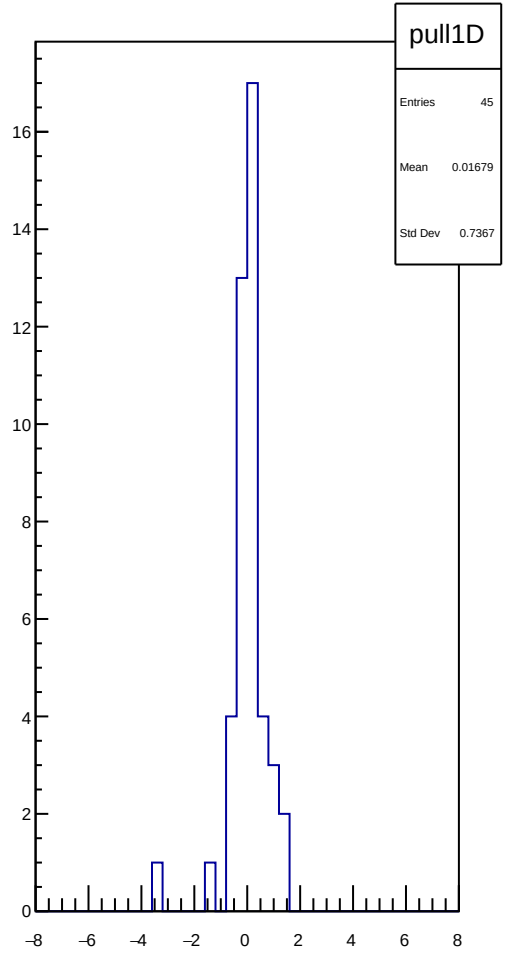

asym_bcm_an_us_rms vs run
χ² / ndf 1.591e+04 / 44
p0 222.6 ± 0.2392
450
400
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

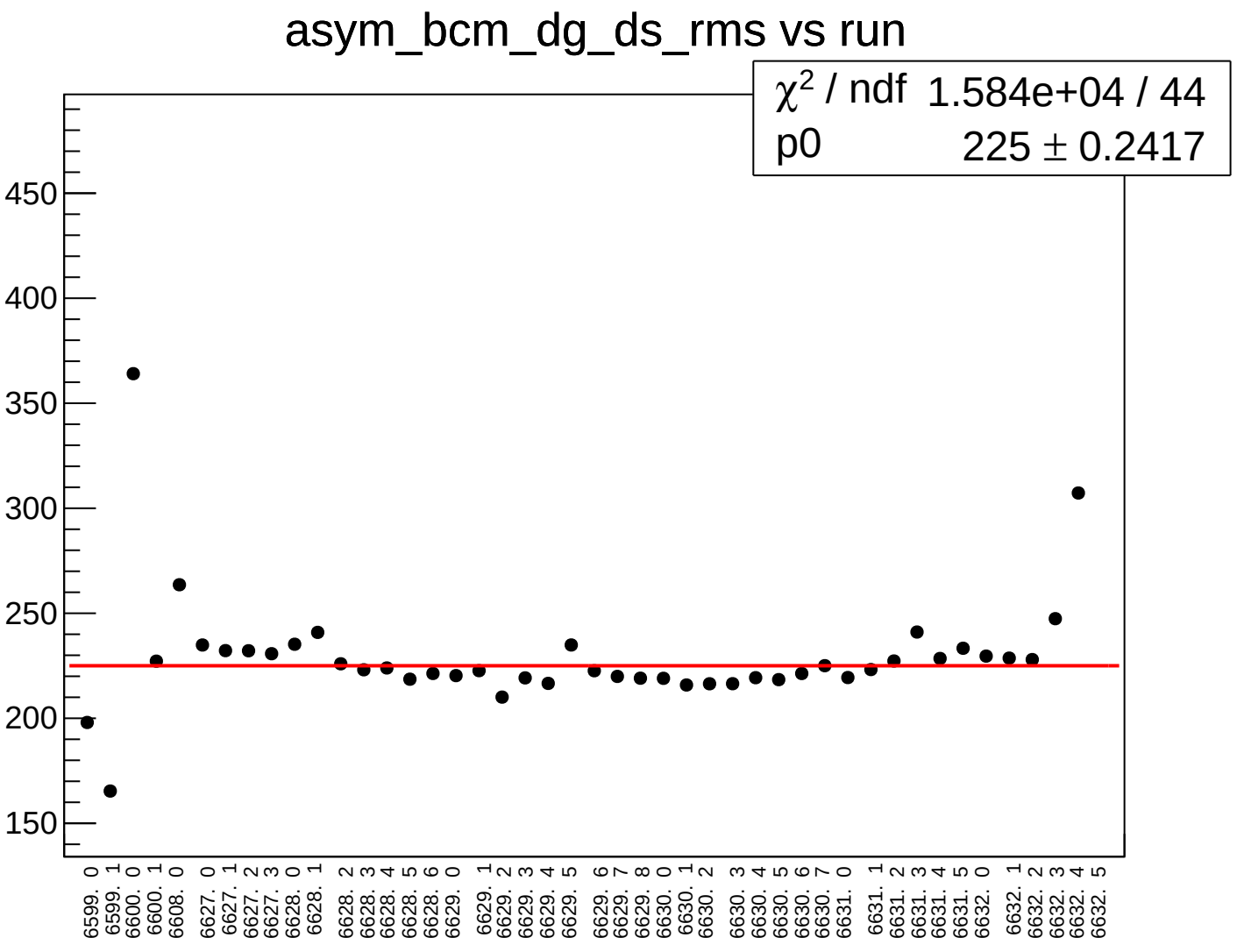

asym_bcm_dg_us_mean vs run
χ² / ndf 21.26 / 44
p0 219.3 ± 346.1
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 38.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5


pull1D
Entries 45
Mean 0.0227
Std Dev 0.687
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_rms vs run
χ² / ndf 1.531e+04 / 44
p0 227.9 ± 0.2447
500
450
400
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_bcm_dg_ds_mean vs run
χ² / ndf 24.44 / 44
p0 189.9 ± 341.8
pull
Entries 45
Mean 18.82
Std Dev 0


pull1D
Entries 45
Mean 0.01679
Std Dev 0.7367


asym_bcm_dg_ds_rms vs run
χ² / ndf 1.584e+04 / 44
p0 225 ± 0.2417
450
400
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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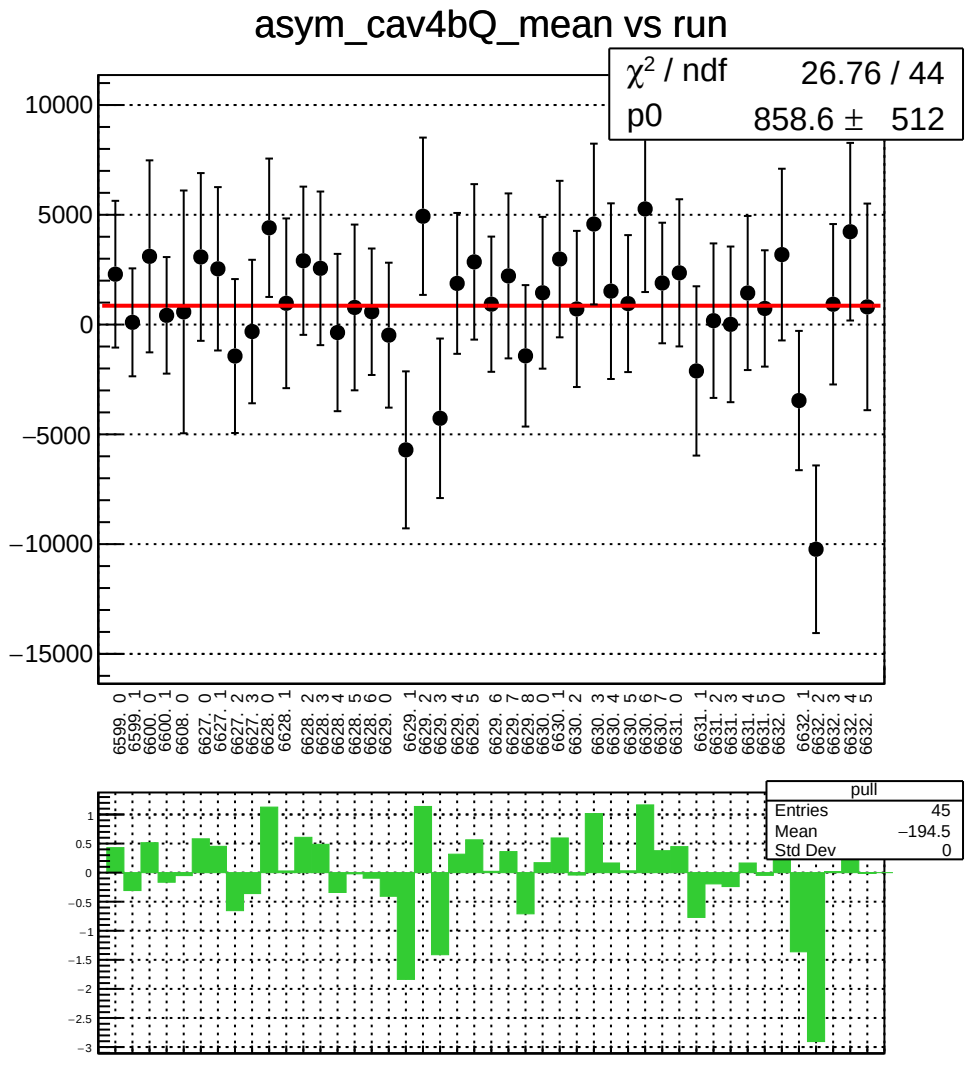
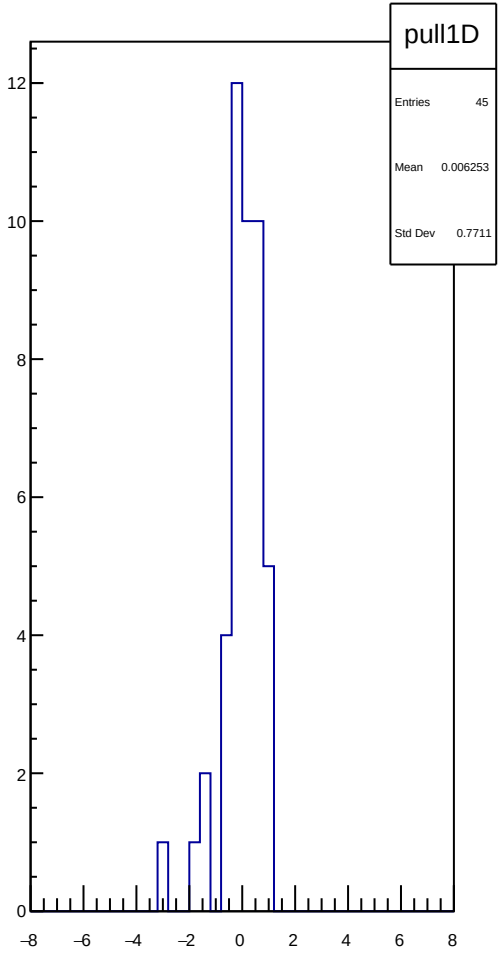
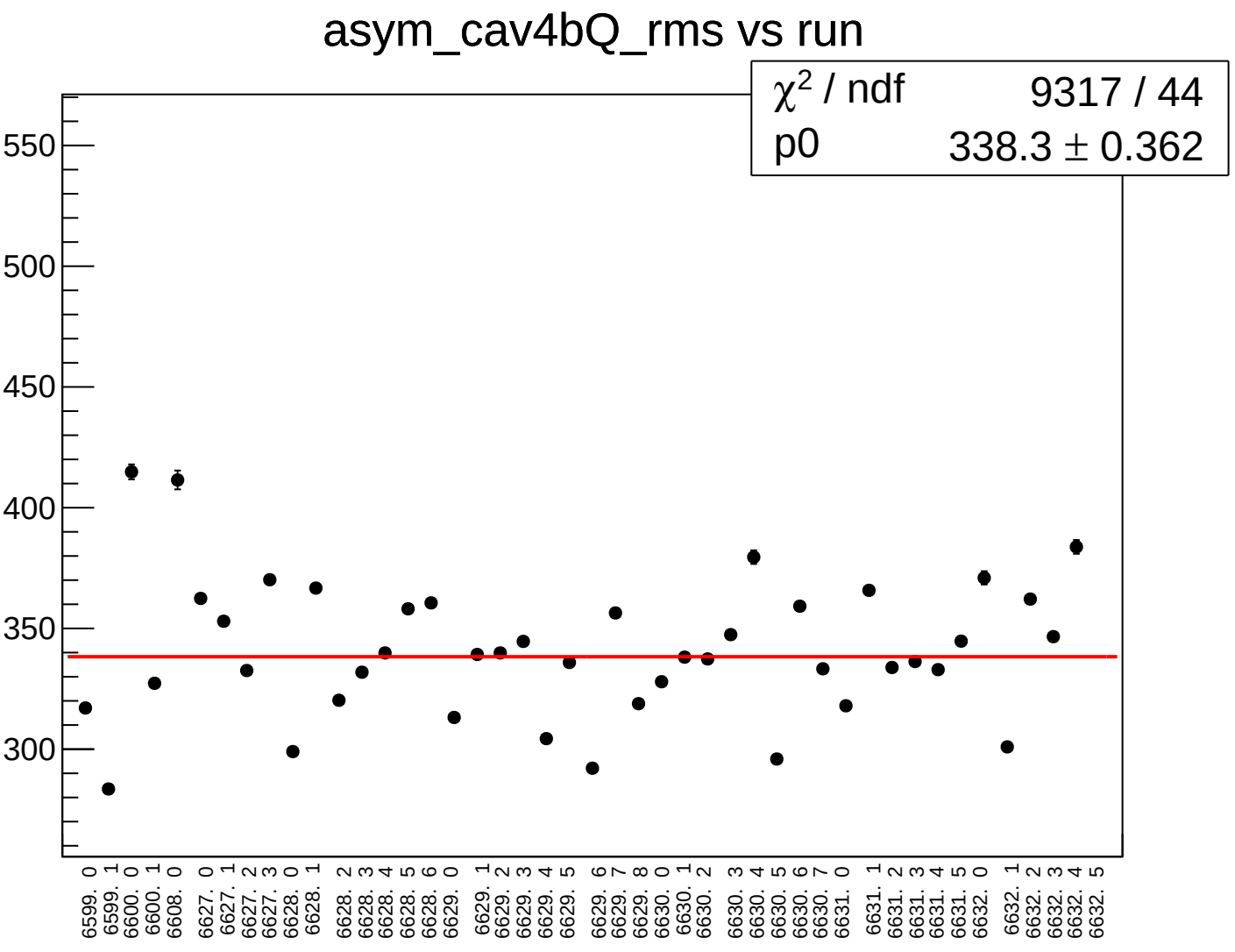
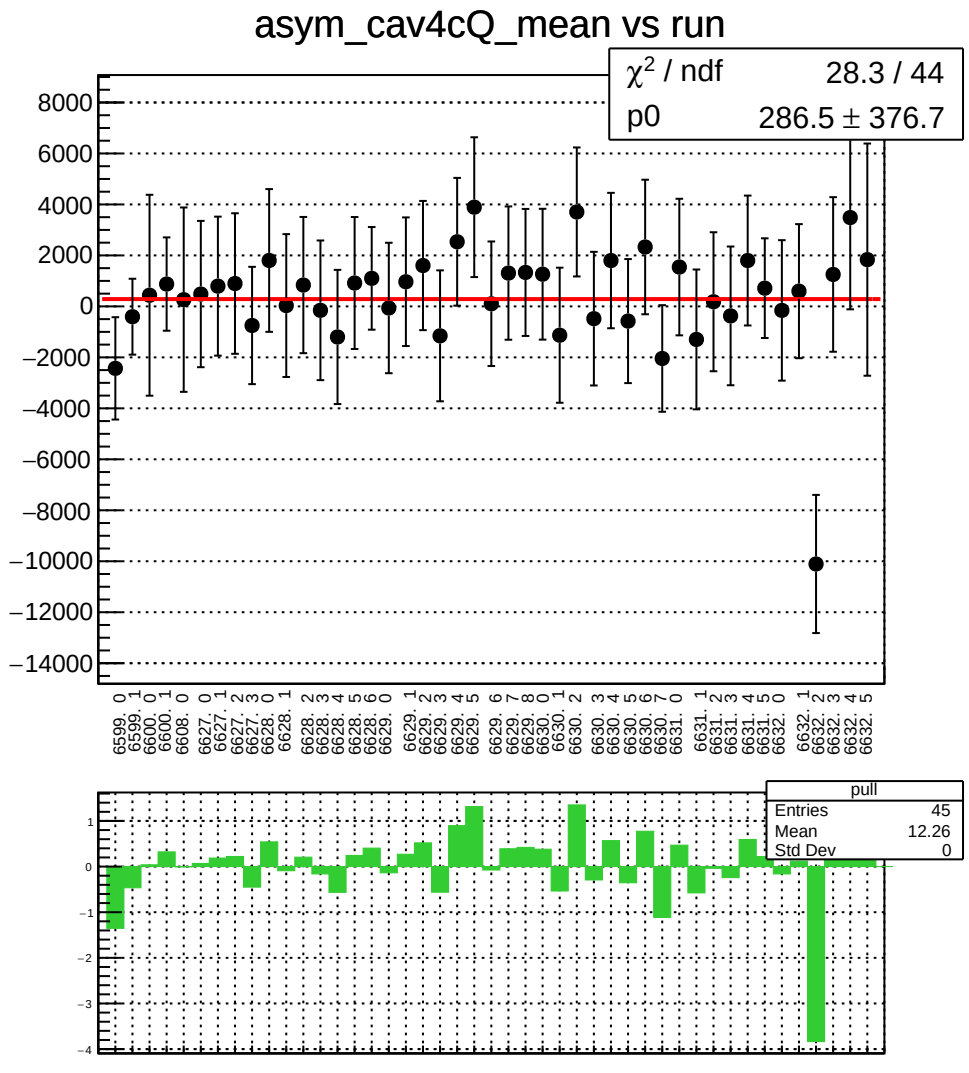
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_cav4bQ_mean vs run
χ² / ndf 26.76 / 44
p0 858.6 ± 512
10000
5000
0
−5000
−10000
−15000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −194.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3


pull1D
Entries 45
Mean 0.006253
Std Dev 0.7711
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_cav4bQ_rms vs run
χ² / ndf 9317 / 44
p0 338.3 ± 0.362
550
500
450
400
350
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_cav4cQ_mean vs run
χ² / ndf 28.3 / 44
p0 286.5 ± 376.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
−14000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
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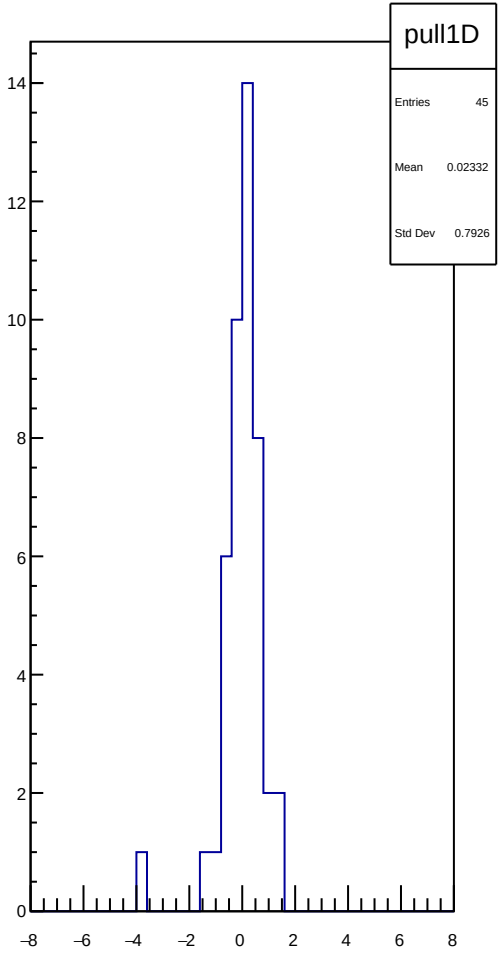
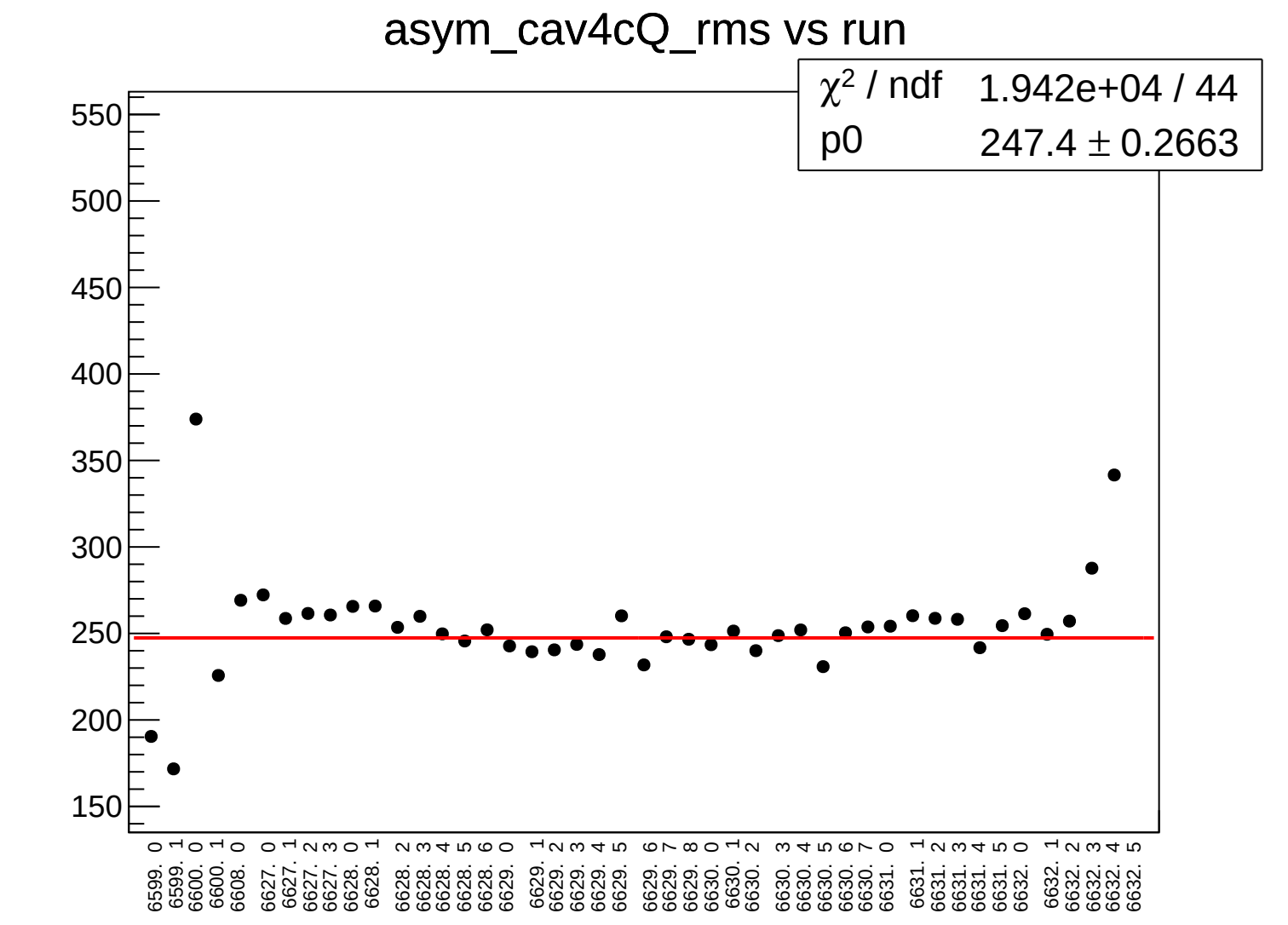
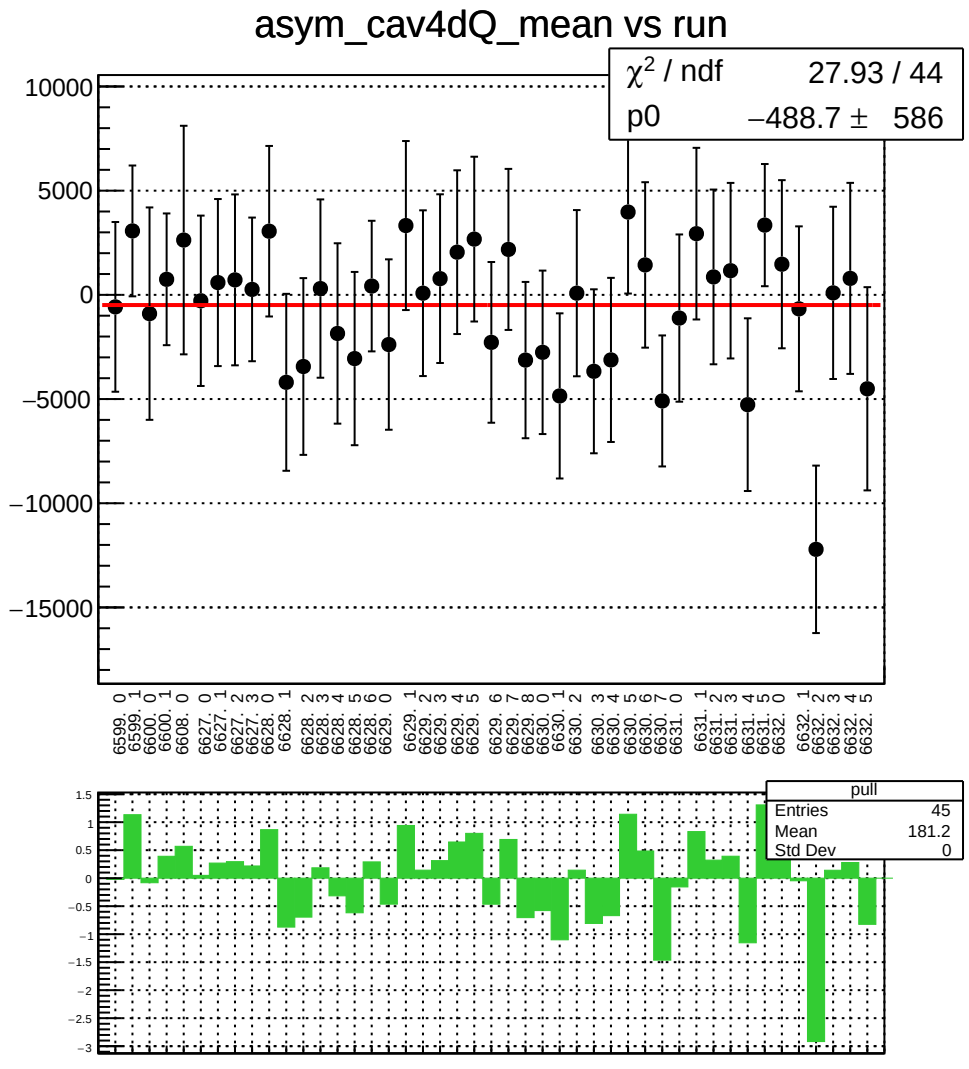
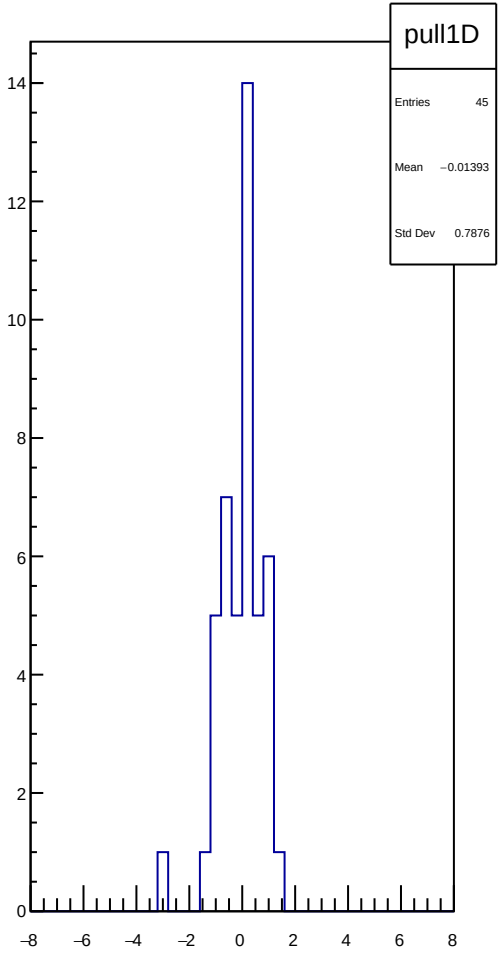
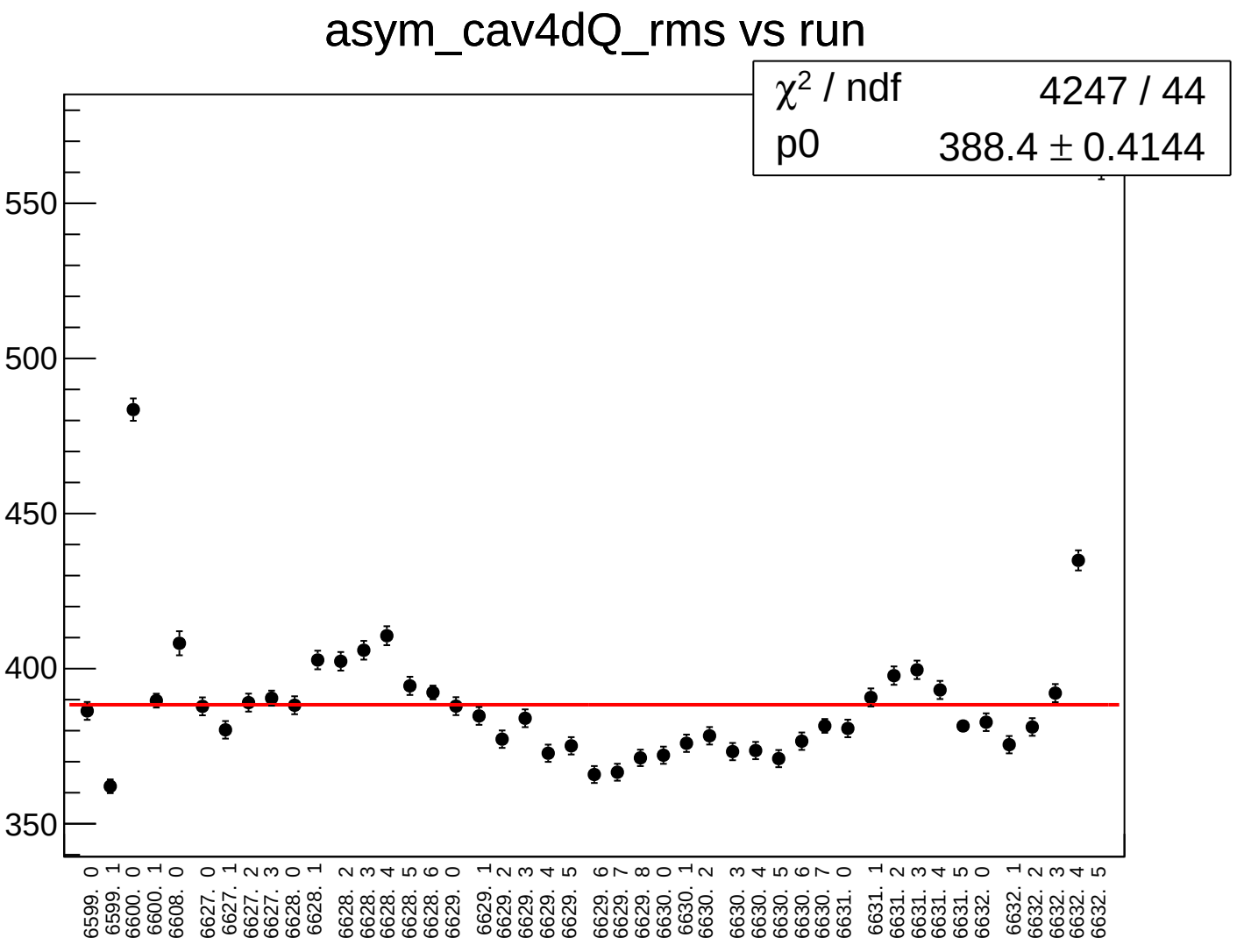
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 12.26
Std Dev 0
1
0
−1
−2
−3
−4

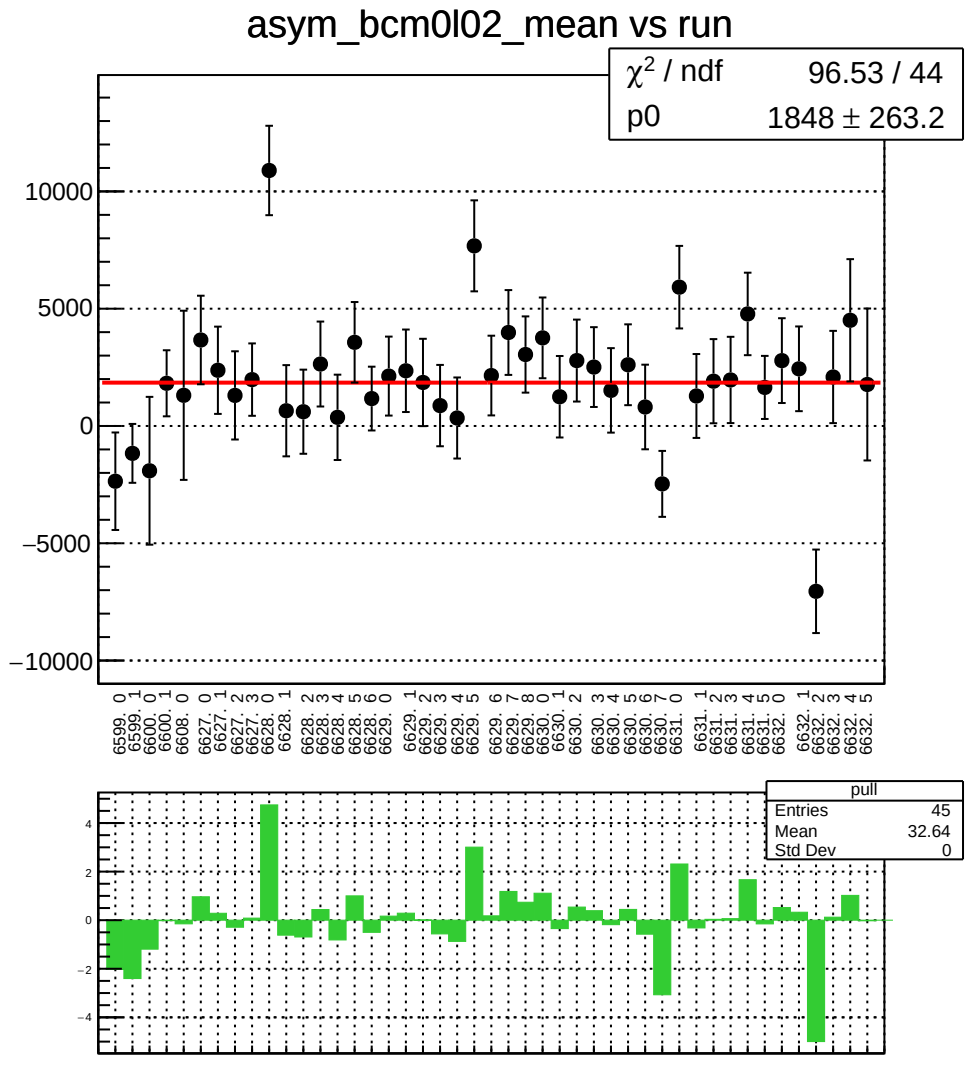

pull1D
Entries 45
Mean 0.02332
Std Dev 0.7926
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

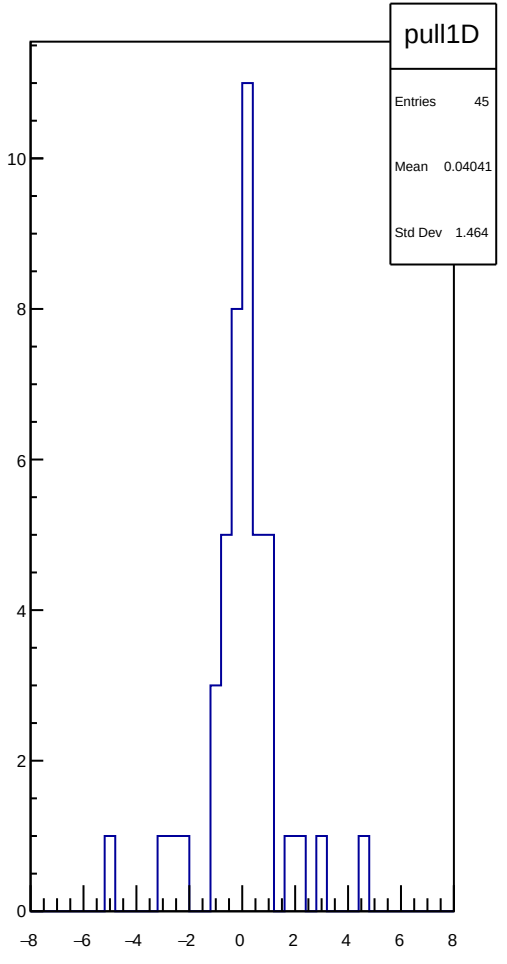

asym_cav4cQ_rms vs run
χ² / ndf 1.942e+04 / 44
p0 247.4 ± 0.2663
550
500
450
400
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

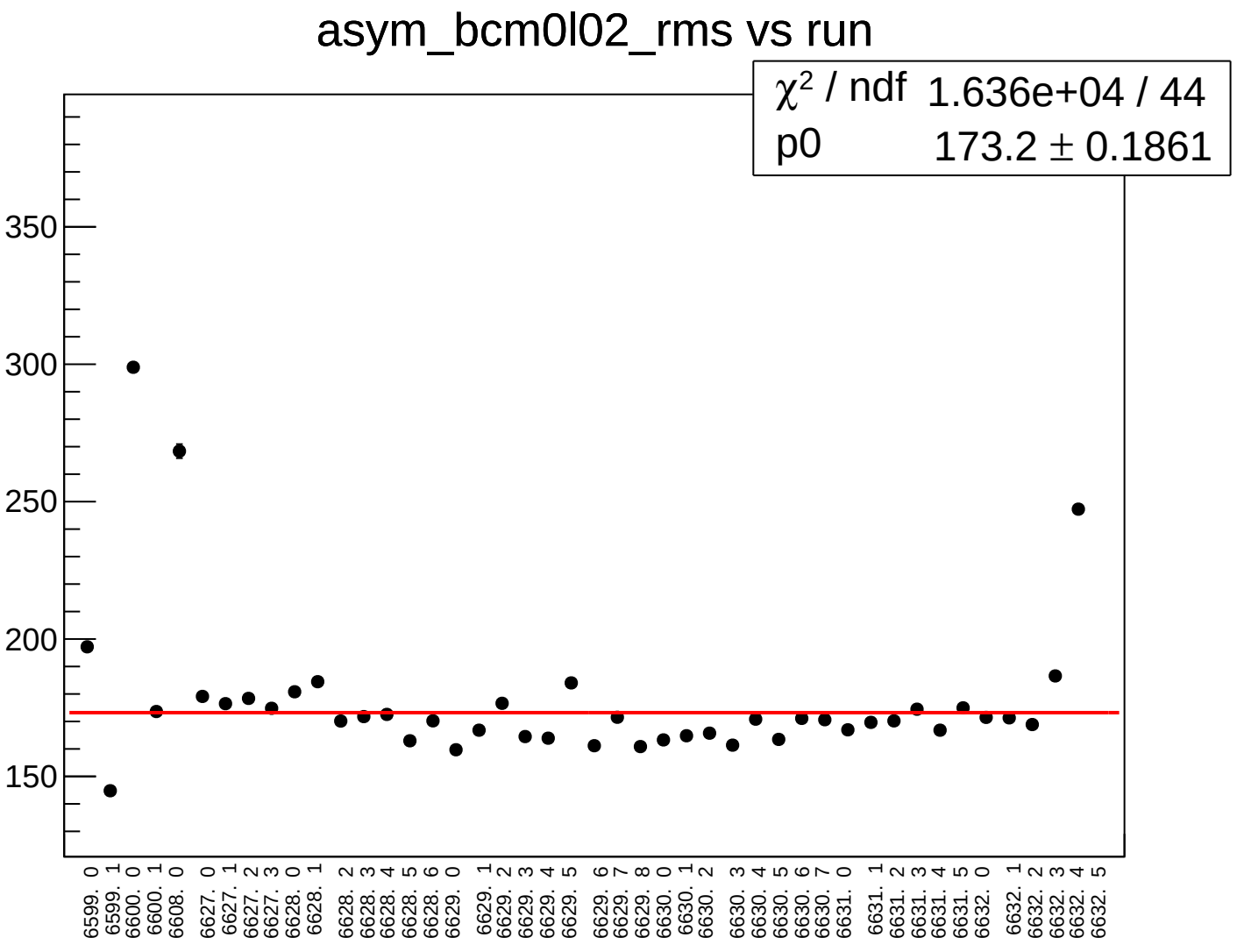

asym_cav4dQ_mean vs run
χ² / ndf 27.93 / 44
p0 −488.7 ± 586
10000
5000
0
−5000
−10000
−15000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 181.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

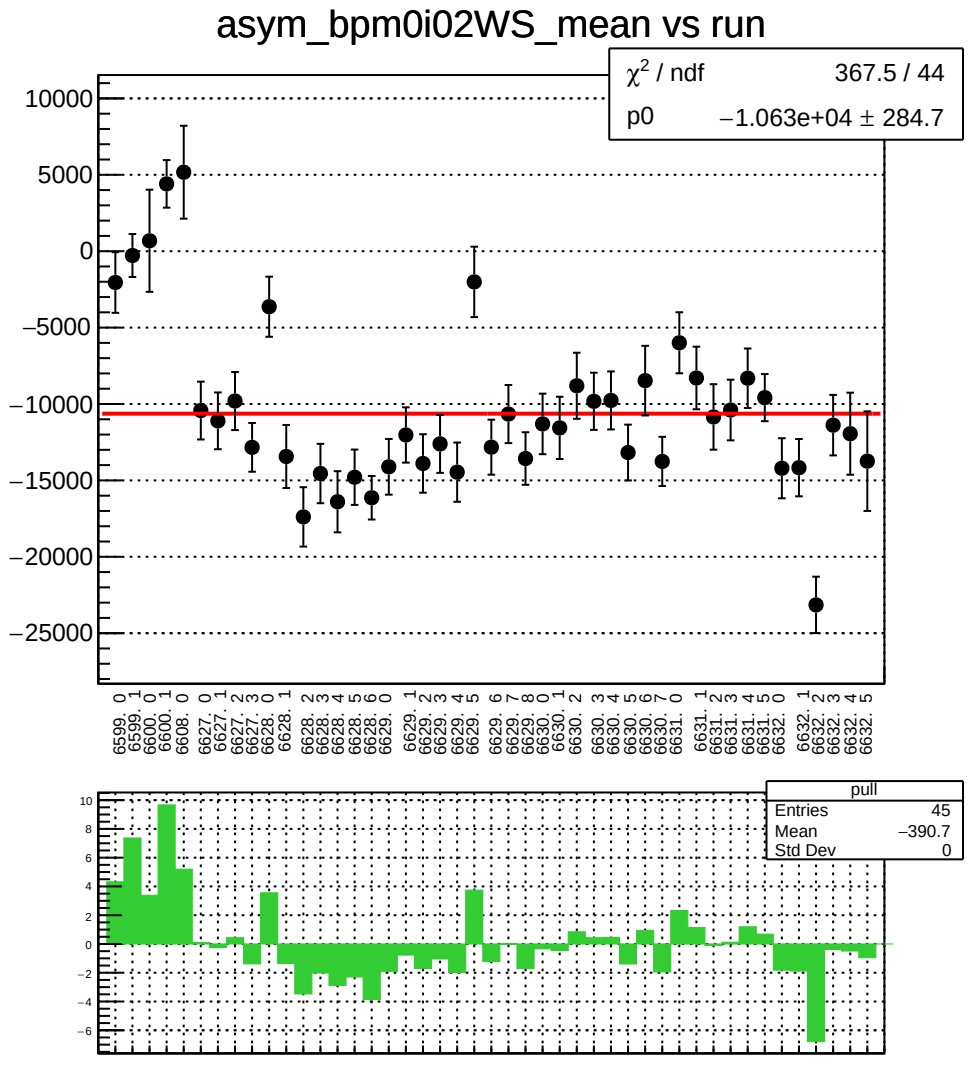

pull1D
Entries 45
Mean −0.01393
Std Dev 0.7876
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

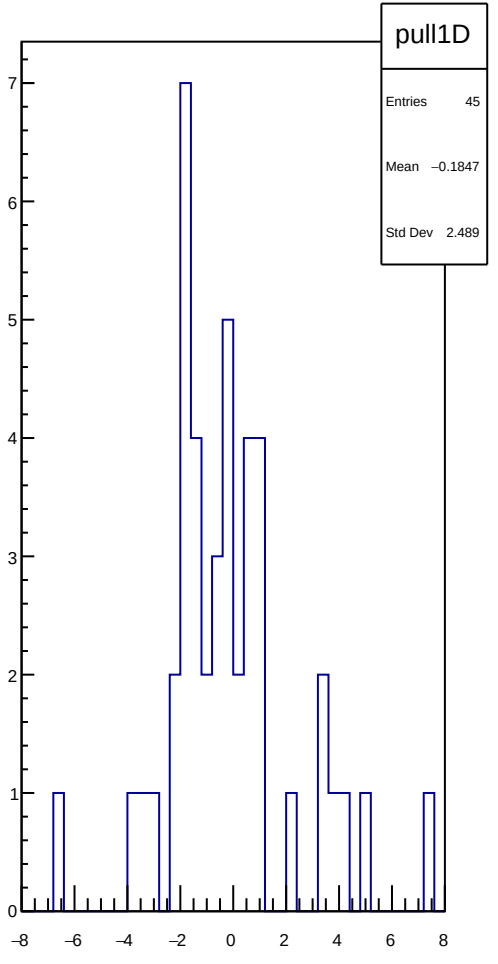

asym_cav4dQ_rms vs run
χ² / ndf 4247 / 44
p0 388.4 ± 0.4144
550
500
450
400
350
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

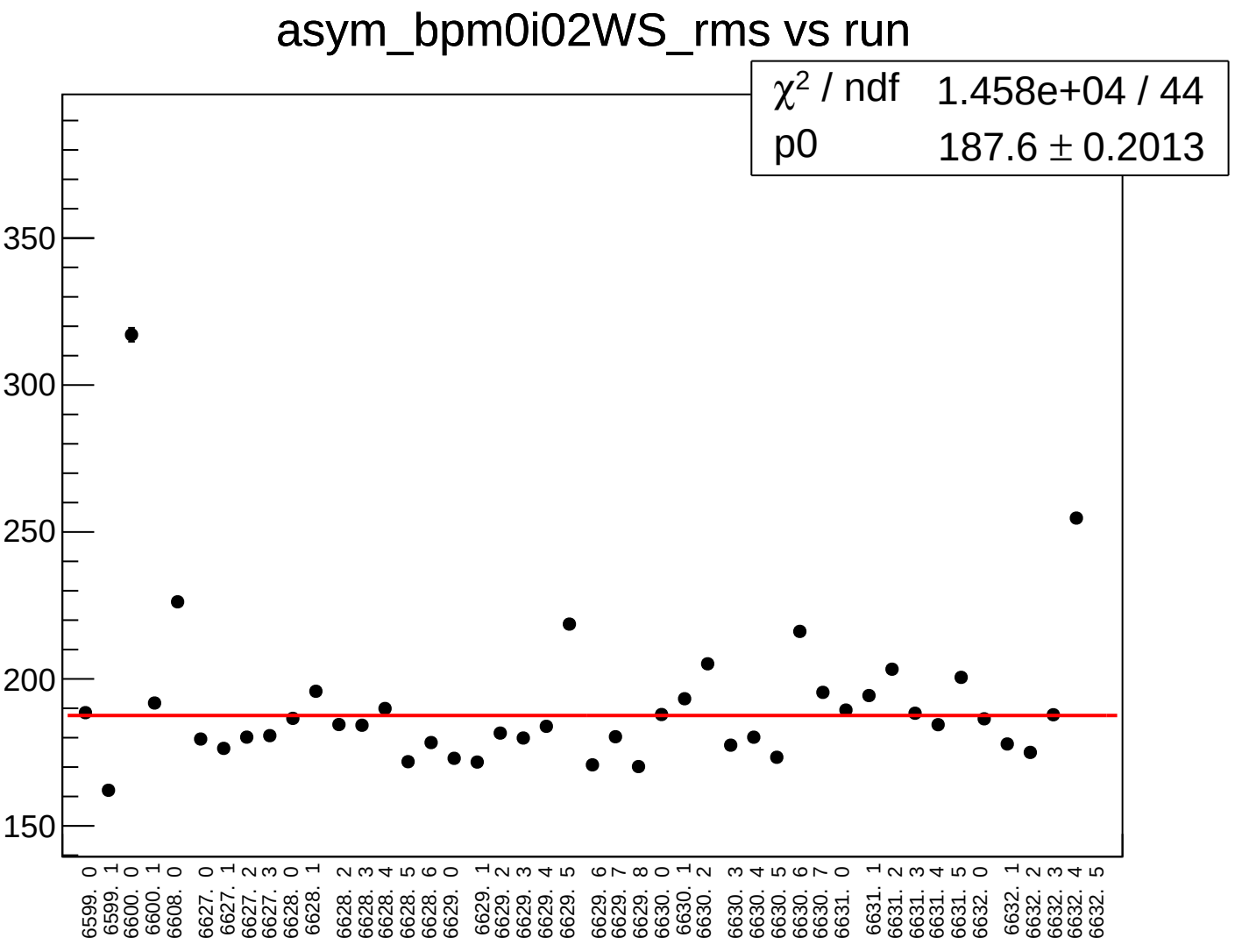

asym_bcm0l02_mean vs run
χ² / ndf 96.53 / 44
p0 1848 ± 263.2
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 32.64
Std Dev 0
4
2
0
−2
−4

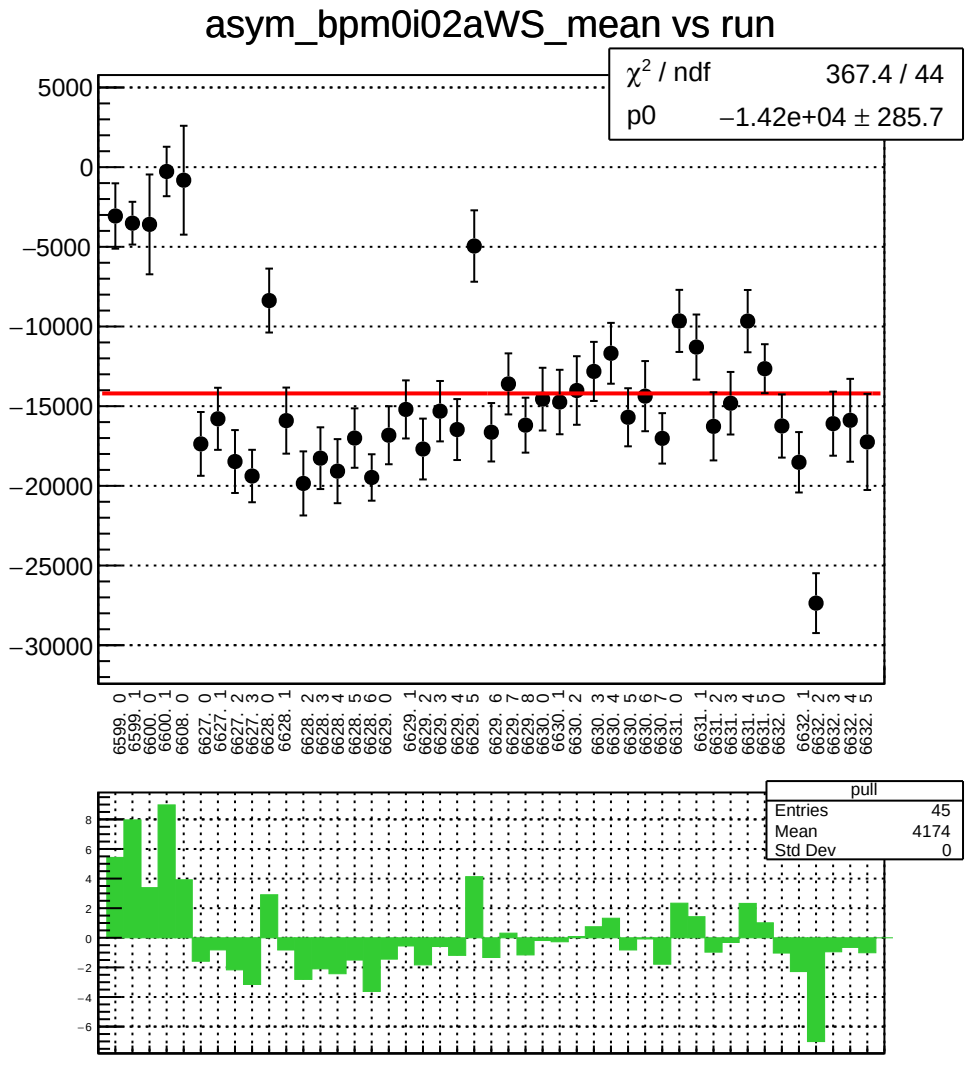

pull1D
Entries 45
Mean 0.04041
Std Dev 1.464
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

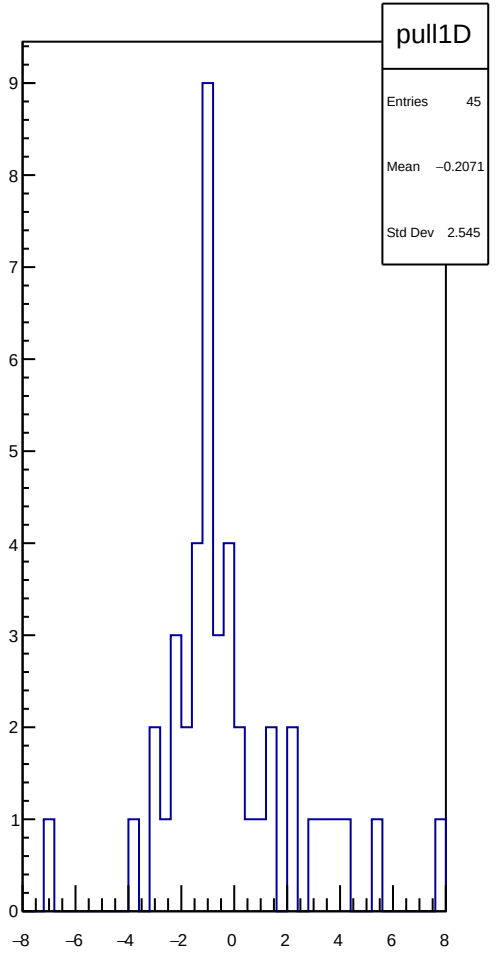

asym_bcm0l02_rms vs run
χ² / ndf 1.636e+04 / 44
p0 173.2 ± 0.1861
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

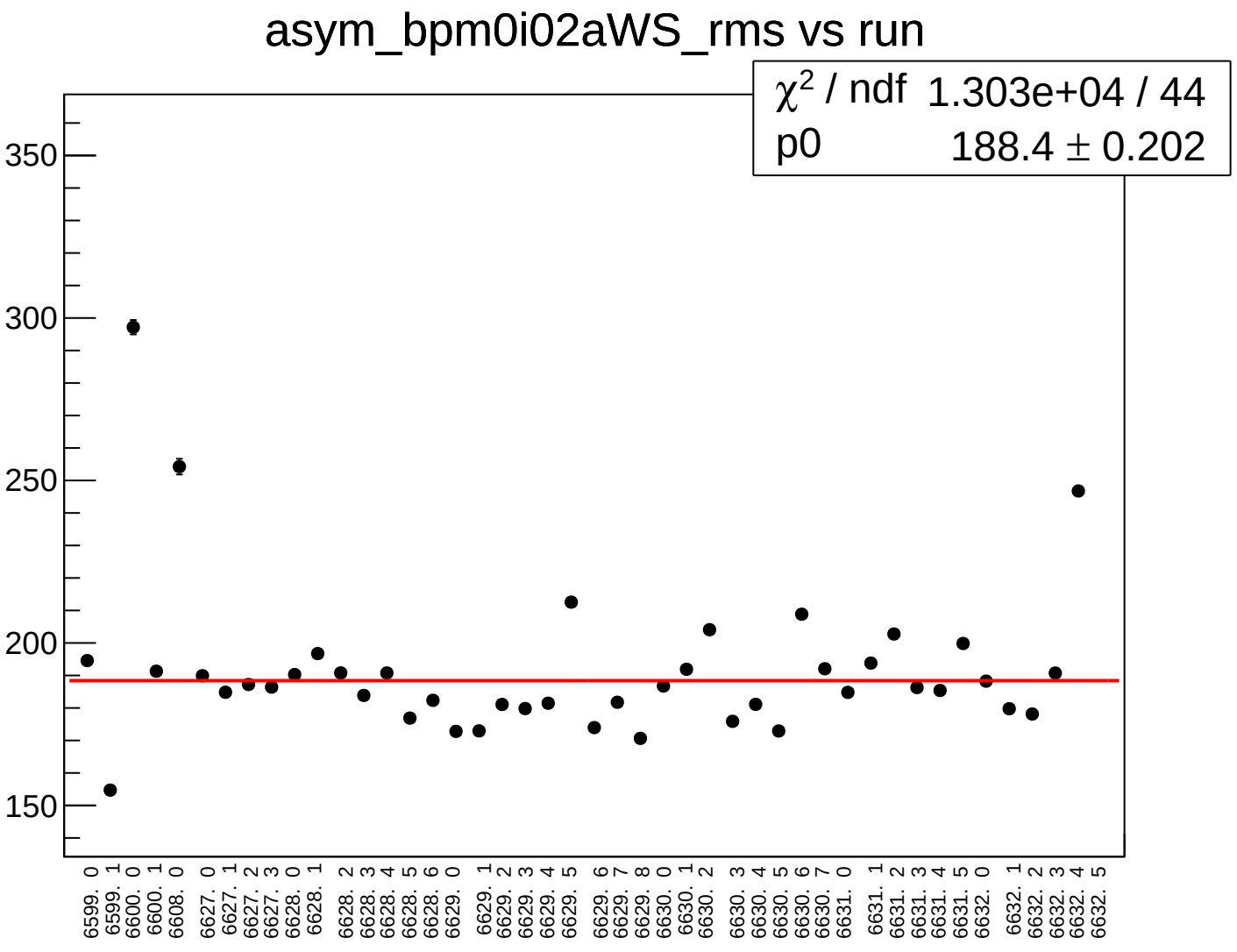

asym_bpm0i02WS_mean vs run
χ² / ndf 367.5 / 44
p0 −1.063e+04 ± 284.7
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −390.7
Std Dev 0
10
8
6
4
2
0
−2
−4
−6

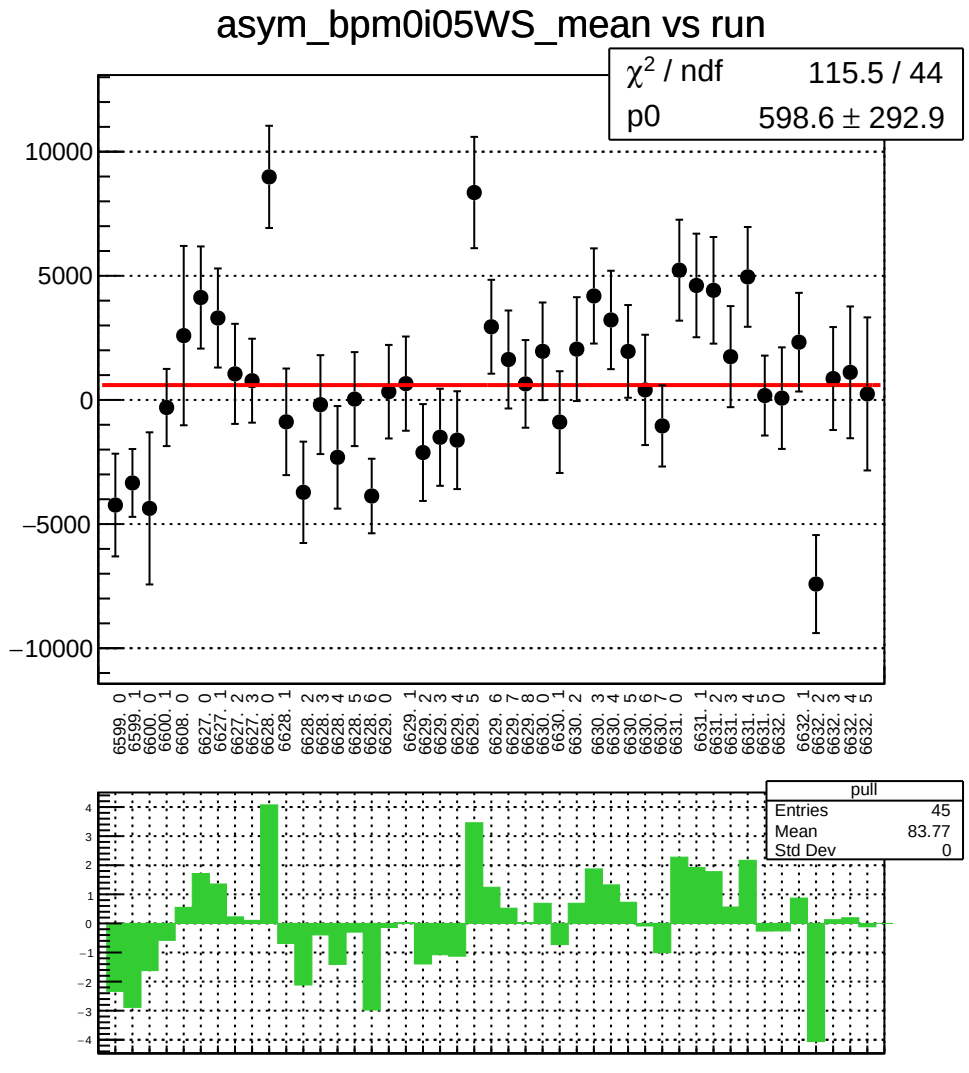

pull1D
Entries 45
Mean −0.1847
Std Dev 2.489
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

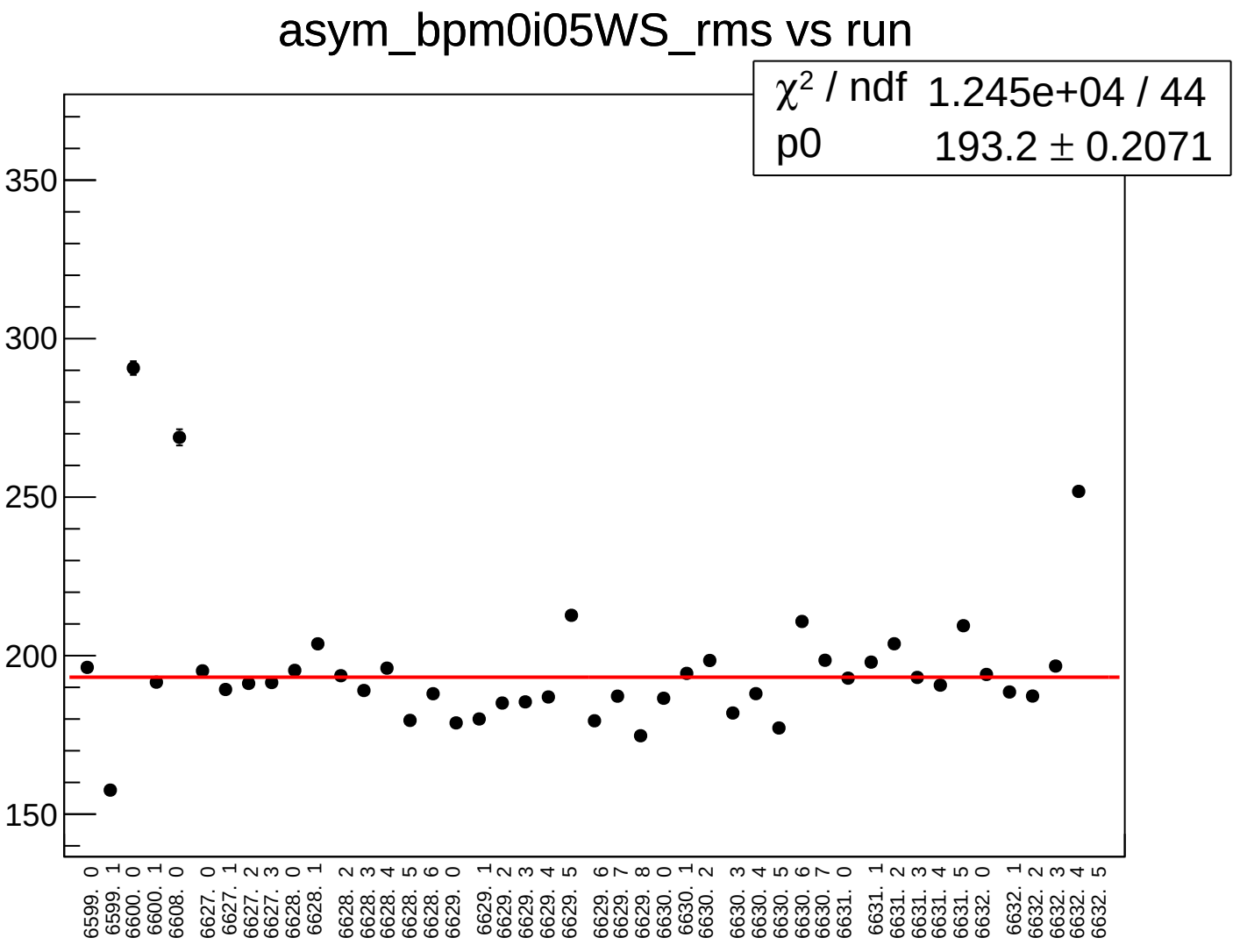

asym_bpm0i02WS_rms vs run
χ² / ndf 1.458e+04 / 44
p0 187.6 ± 0.2013
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

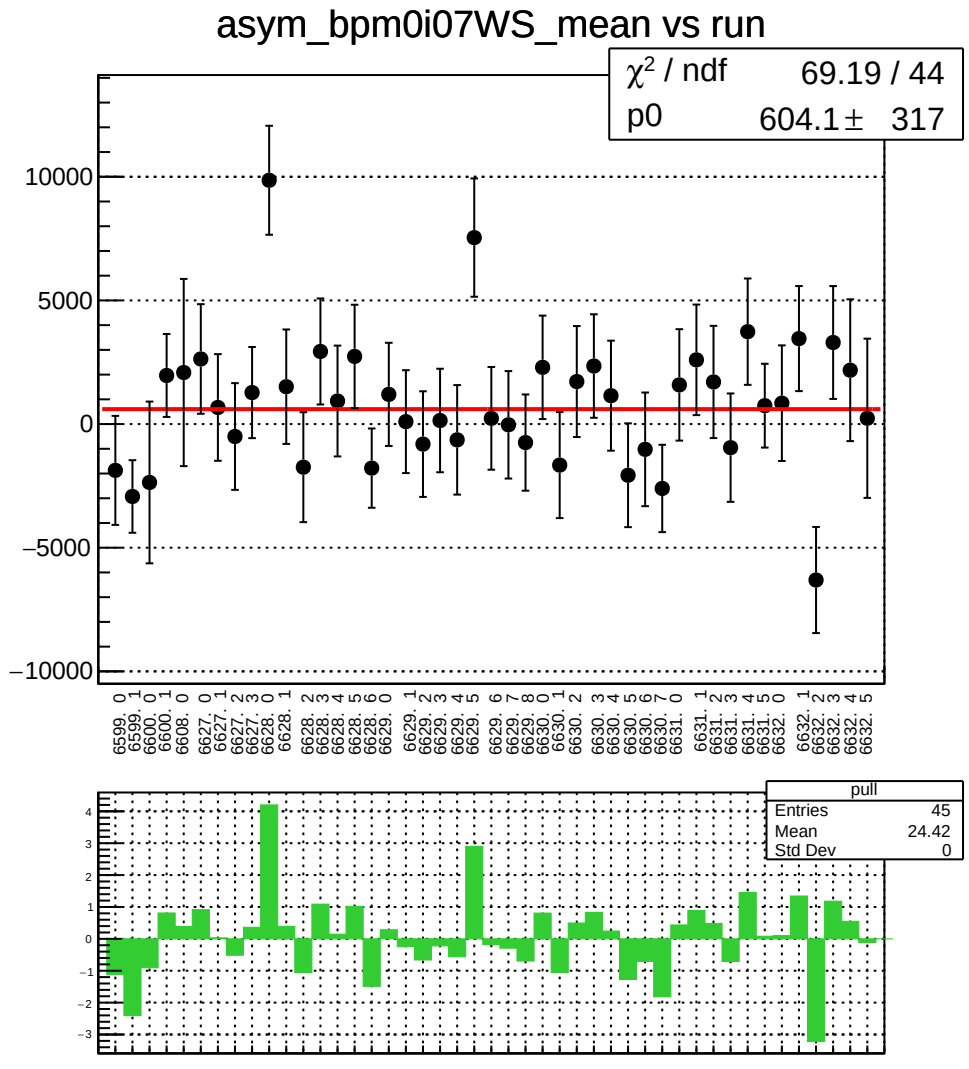

asym_bpm0i02aWS_mean vs run
χ² / ndf 367.4 / 44
p0 −1.42e+04 ± 285.7
5000
0
−5000
−10000
−15000
−20000
−25000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 4174
Std Dev 0
8
6
4
2
0
−2
−4
−6

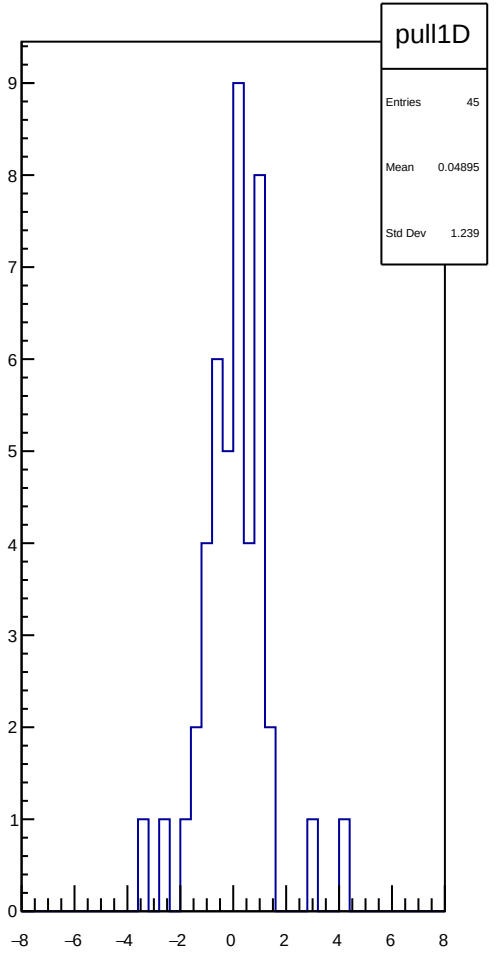

pull1D
Entries 45
Mean −0.2071
Std Dev 2.545
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

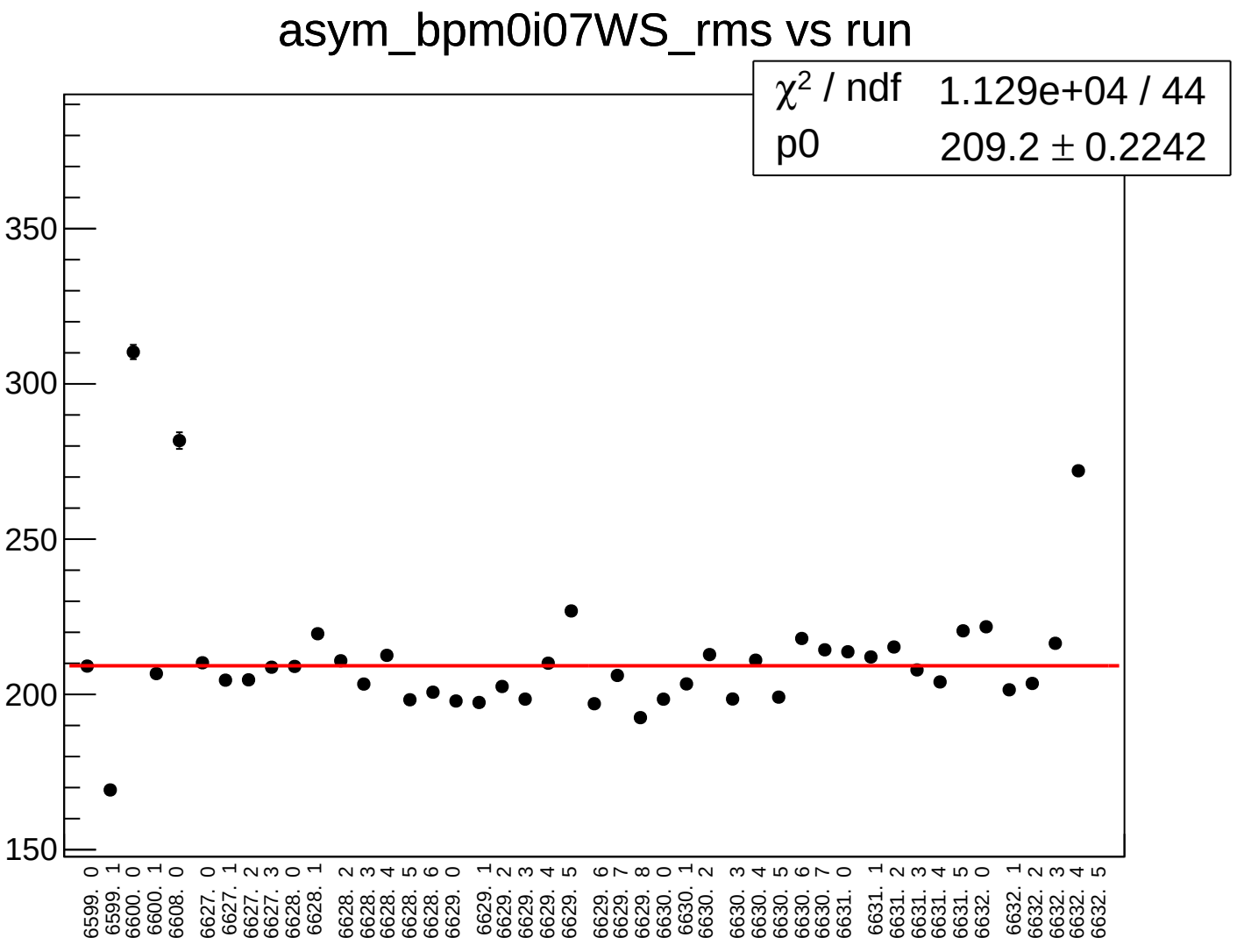

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.303e+04 / 44
p0 188.4 ± 0.202
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_bpm0i05WS_mean vs run
χ² / ndf 115.5 / 44
p0 598.6 ± 292.9
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 83.77
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 45
Mean 0.0656
Std Dev 1.601
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0i05WS_rms vs run
χ² / ndf 1.245e+04 / 44
p0 193.2 ± 0.2071
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_bpm0i07WS_mean vs run
χ² / ndf 69.19 / 44
p0 604.1 ± 317
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 24.42
Std Dev 0
4
3
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.04895
Std Dev 1.239
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0i07WS_rms vs run
χ² / ndf 1.129e+04 / 44
p0 209.2 ± 0.2242
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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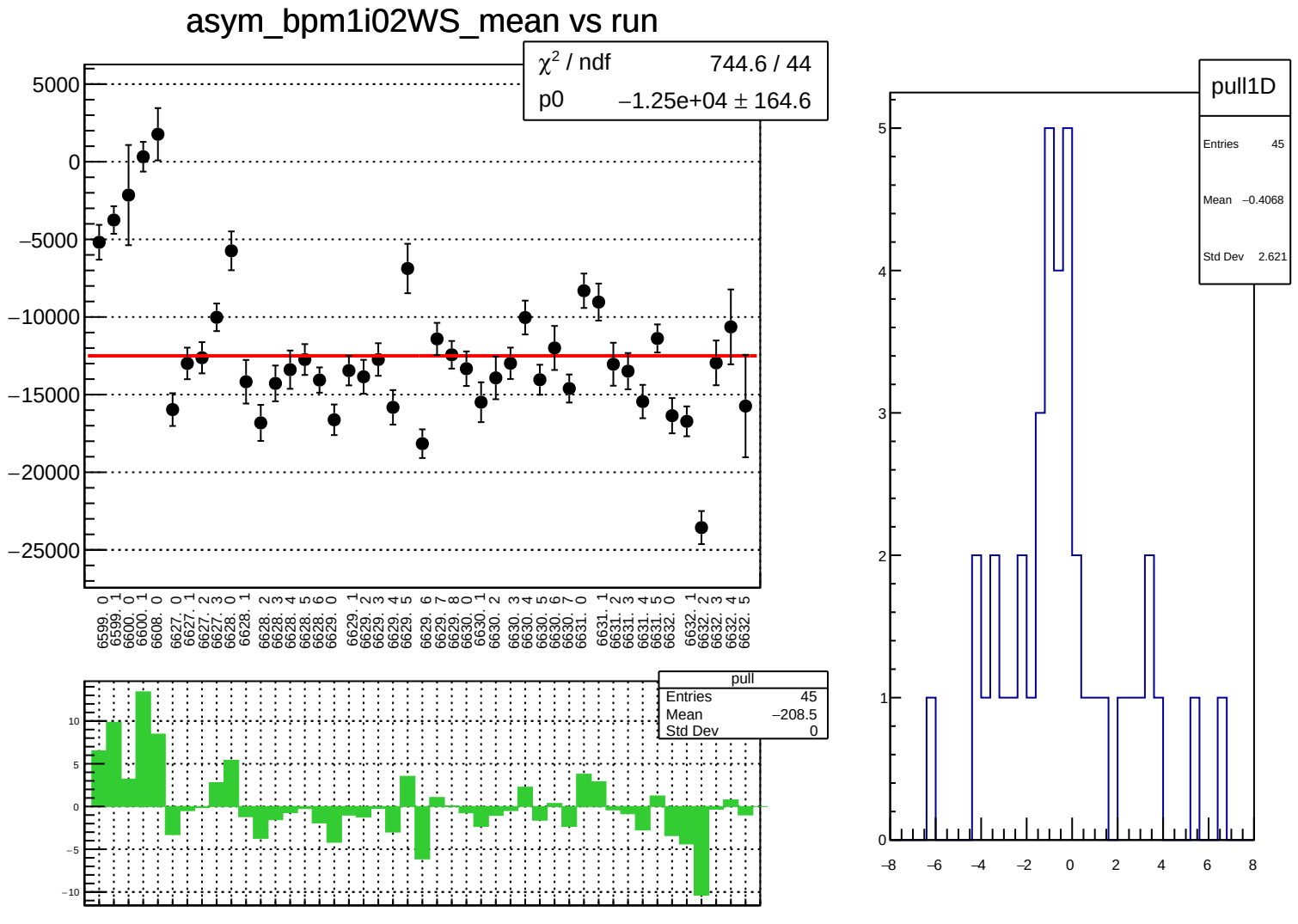
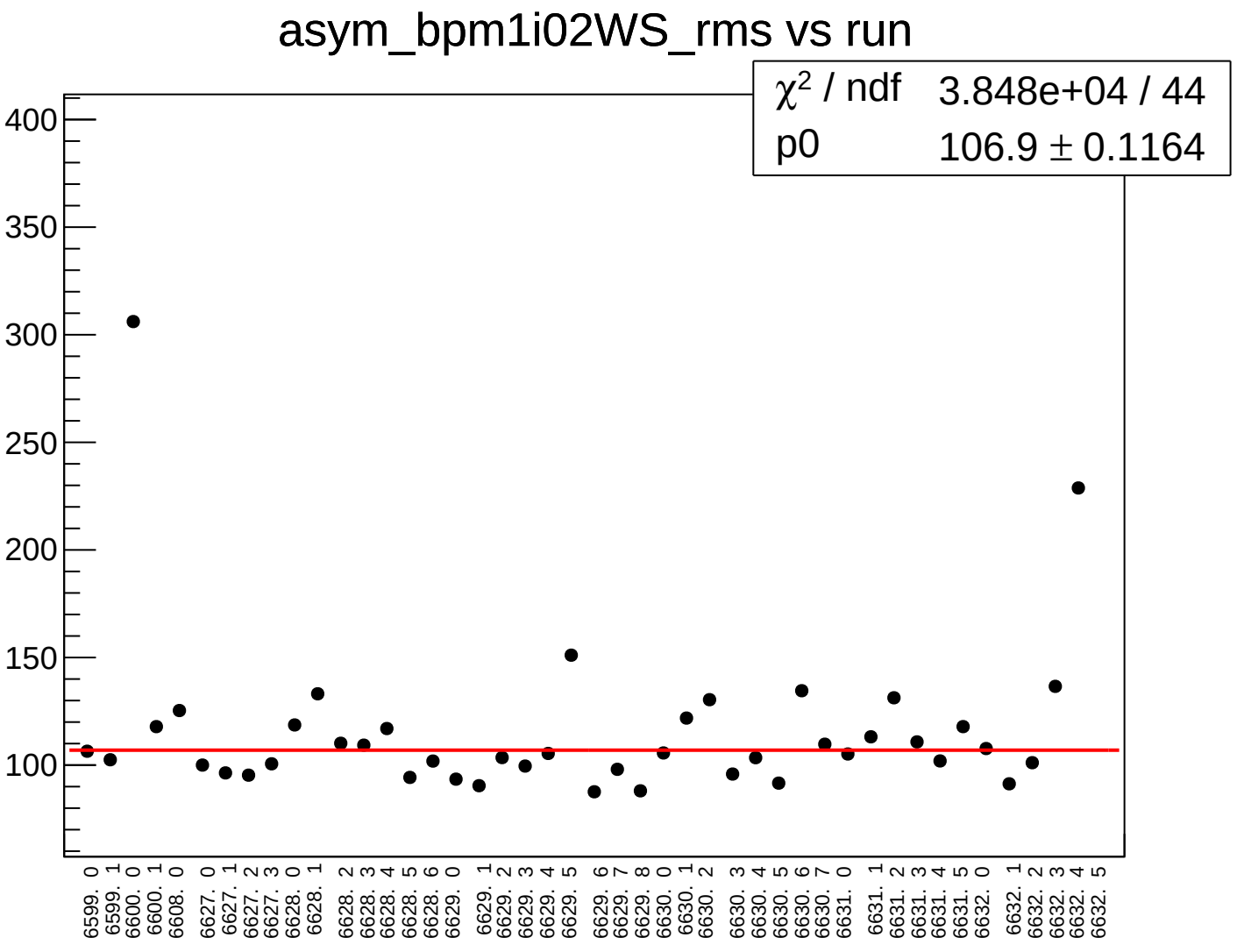
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_bpm1i02WS_mean vs run
χ² / ndf 744.6 / 44
p0 −1.25e+04 ± 164.6
5000
0
−5000
−10000
−15000
−20000
−25000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −208.5
Std Dev 0
10
5
0
−5
−10
pull1D
Entries 45
Mean −0.4068
Std Dev 2.621
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm1i02WS_rms vs run
χ² / ndf 3.848e+04 / 44
p0 106.9 ± 0.1164
400
350
300
250
200
150
100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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6628. 0
6628. 1
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6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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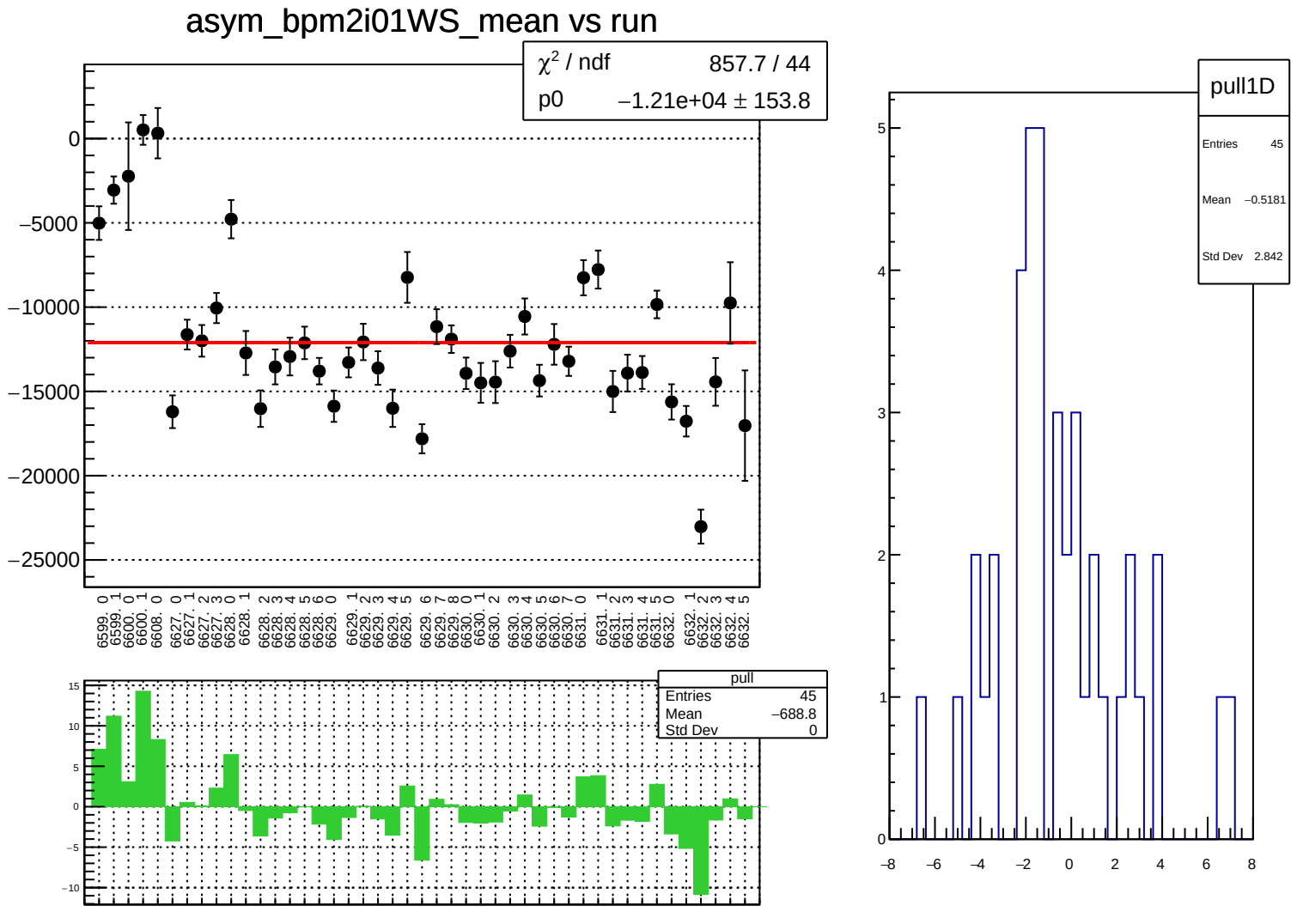
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_bpm2i01WS_mean vs run
χ² / ndf 857.7 / 44
p0 −1.21e+04 ± 153.8
0
−5000
−10000
−15000
−20000
−25000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
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6629. 5
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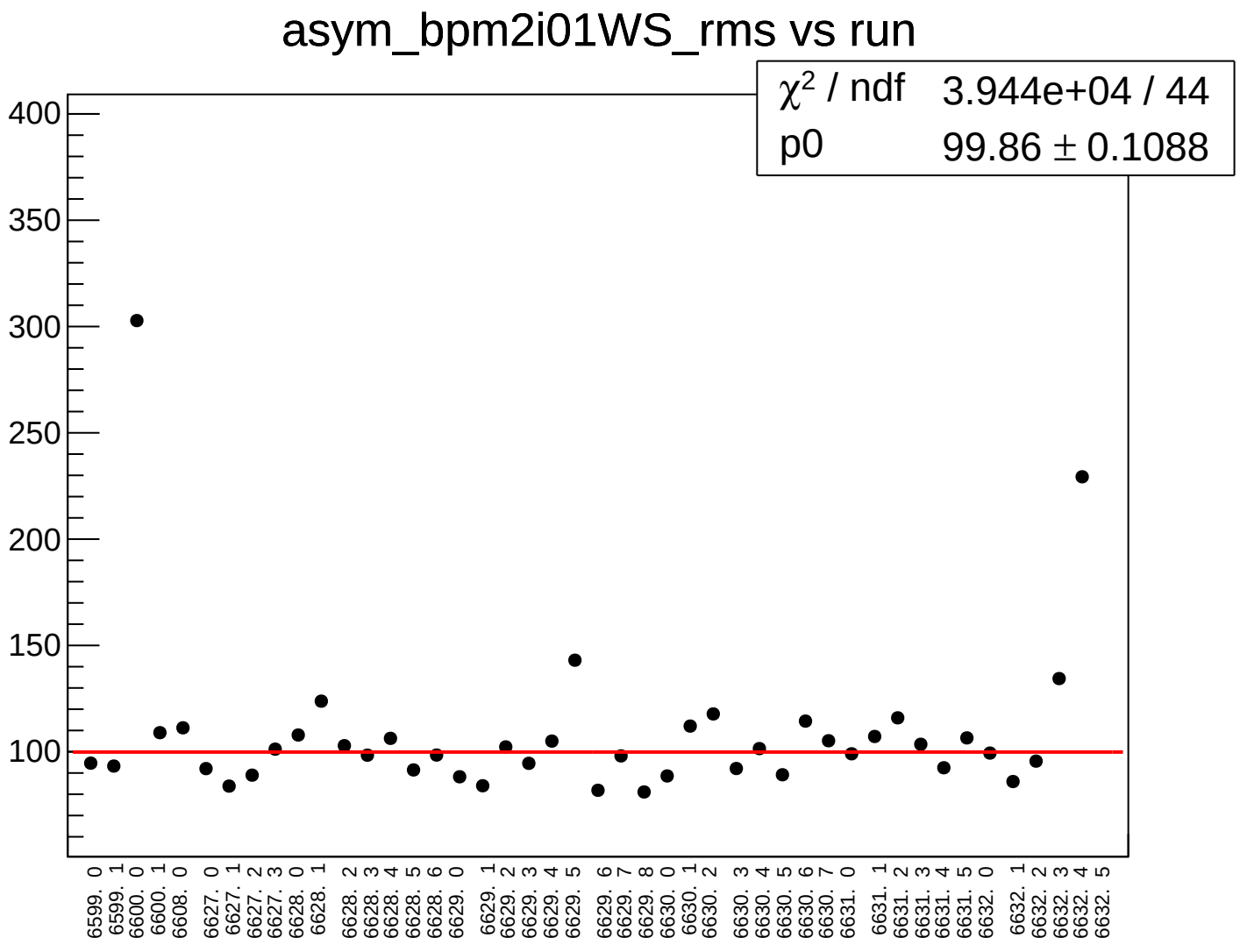
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −688.8
Std Dev 0
15
10
5
0
−5
−10
pull1D
Entries 45
Mean −0.5181
Std Dev 2.842
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm2i01WS_rms vs run
χ² / ndf 3.944e+04 / 44
p0 99.86 ± 0.1088
400
350
300
250
200
150
100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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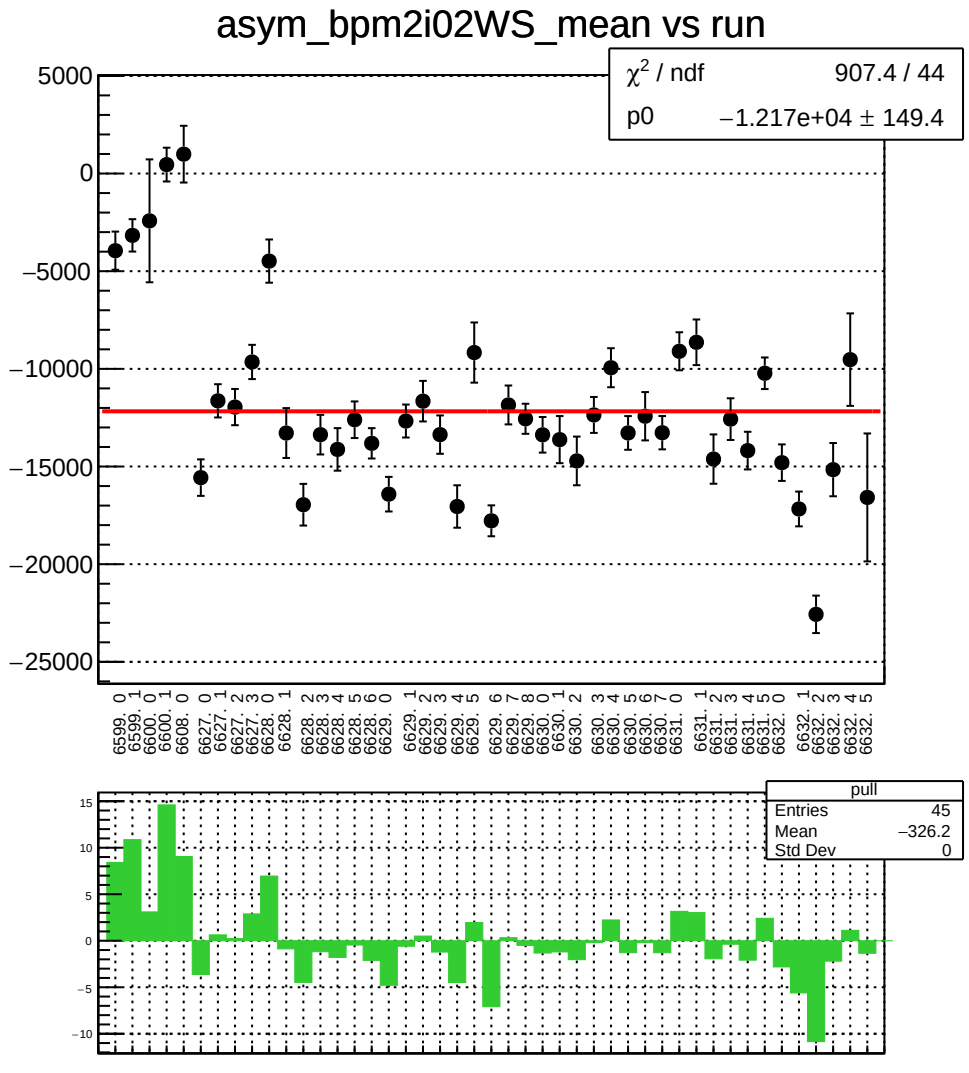
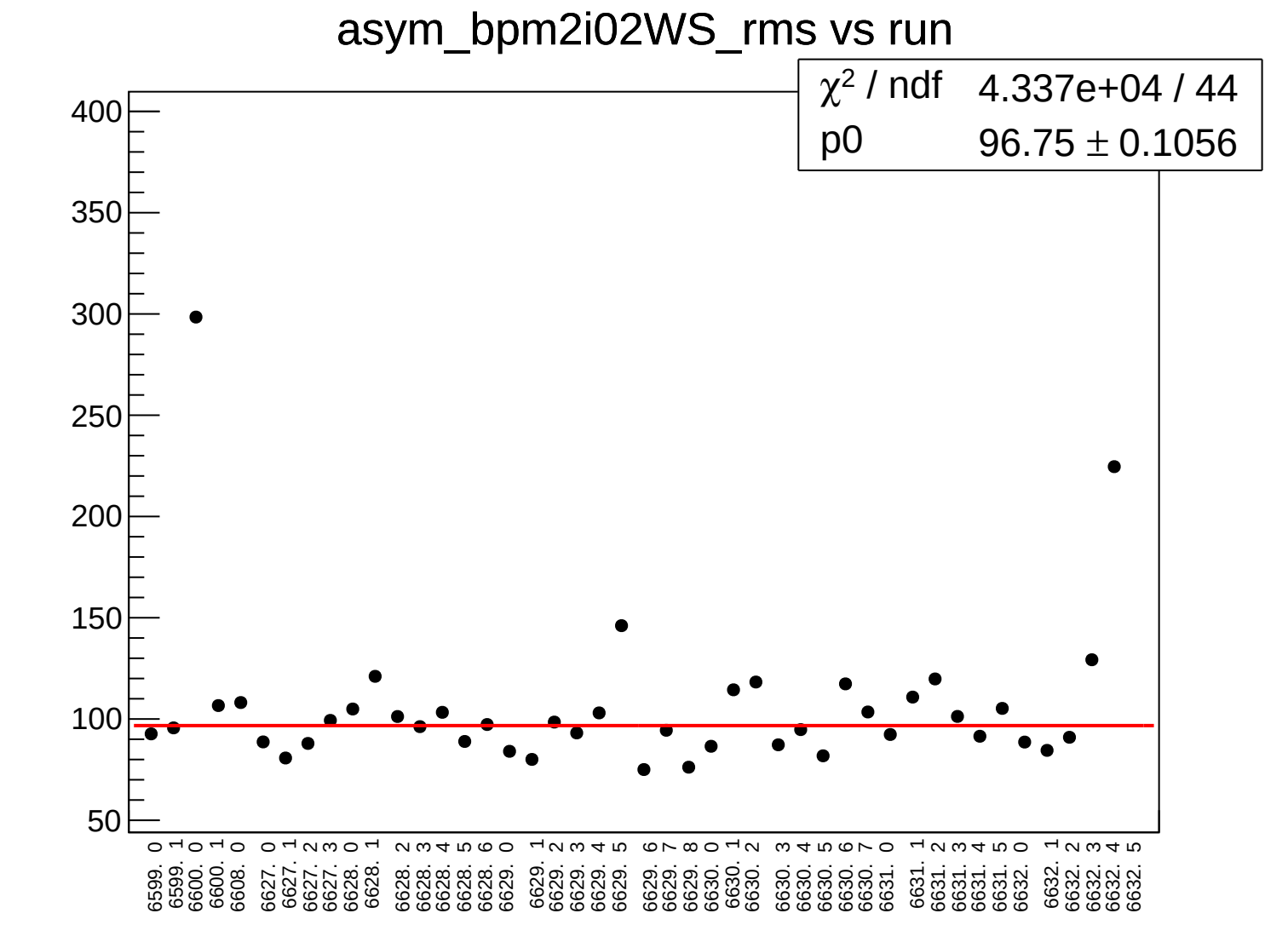
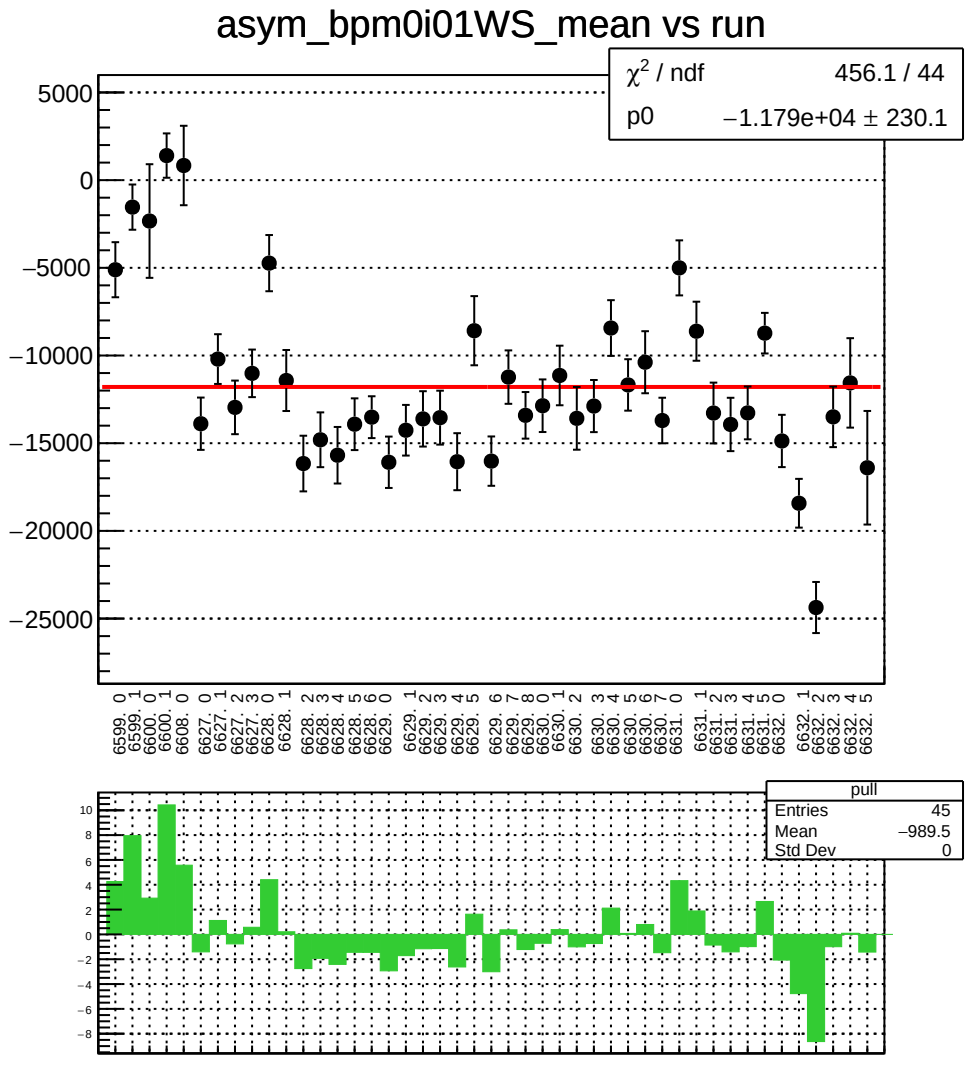
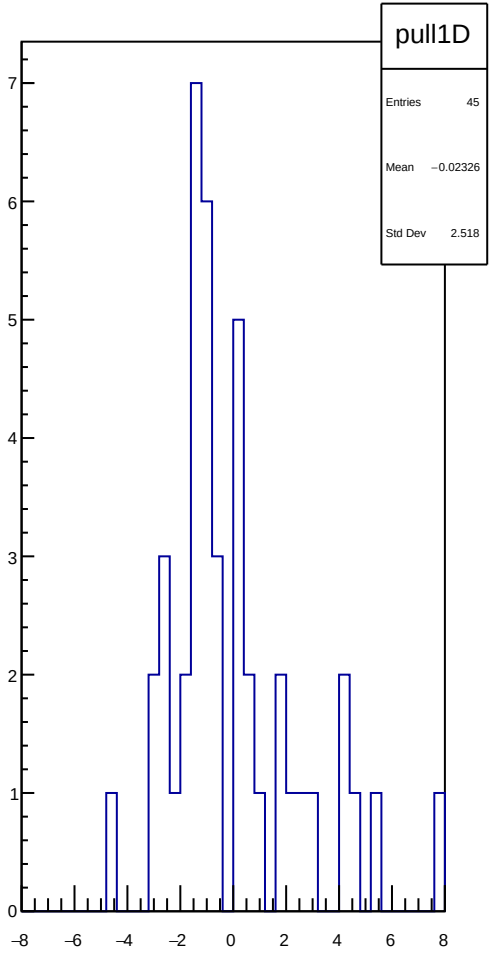
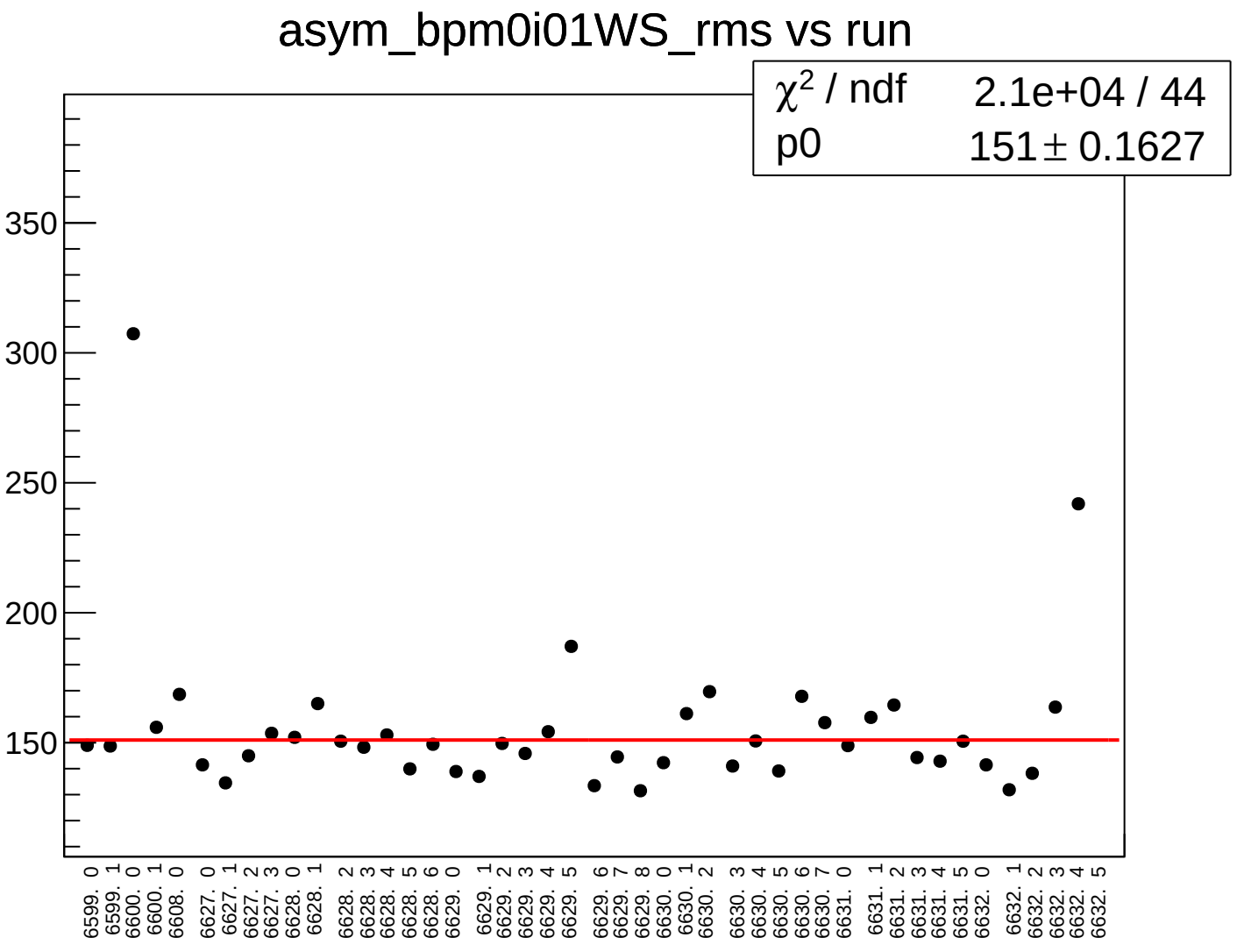
6632. 2
6632. 3
6632. 4
6632. 5

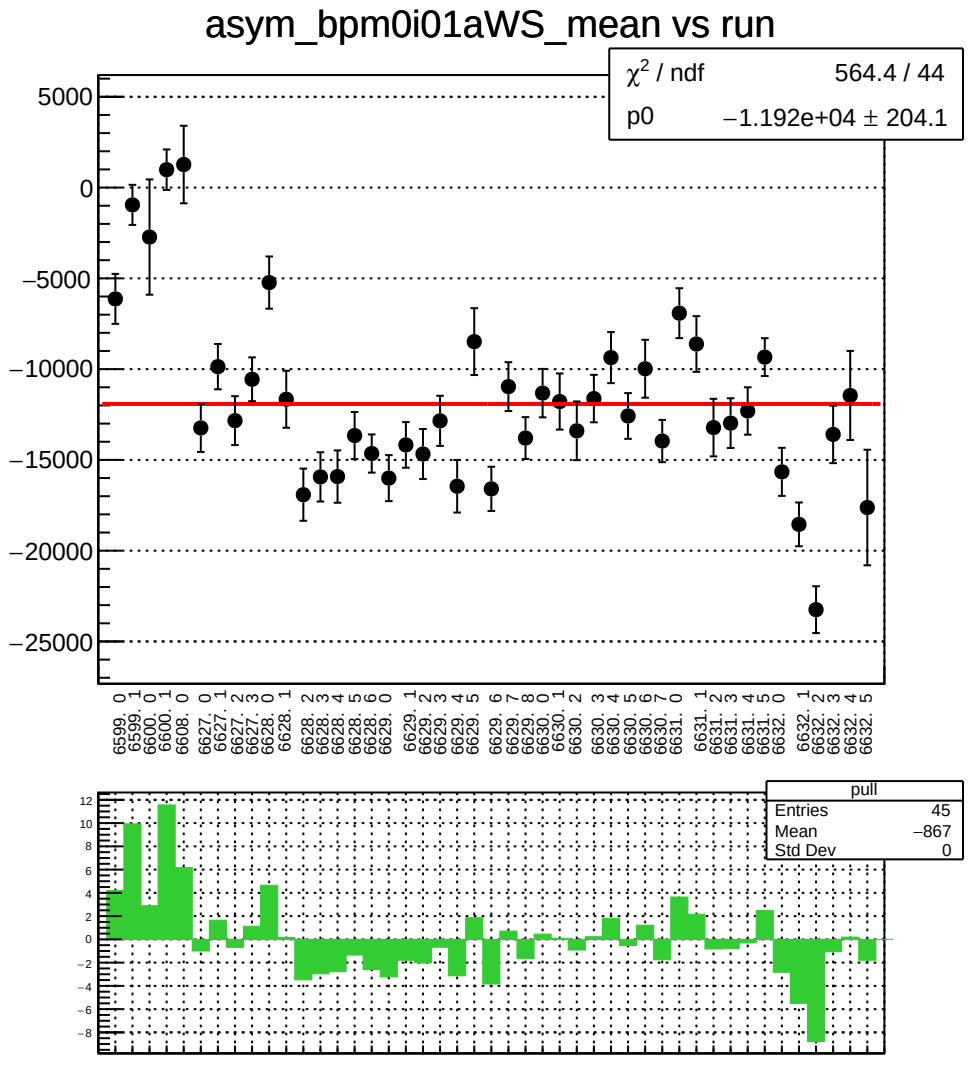

asym_bpm2i02WS_mean vs run
χ² / ndf 907.4 / 44
p0 −1.217e+04 ± 149.4
5000
0
−5000
−10000
−15000
−20000
−25000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −326.2
Std Dev 0
15
10
5
0
−5
−10
pull1D
Entries 45
Mean −0.7139
Std Dev 2.67
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

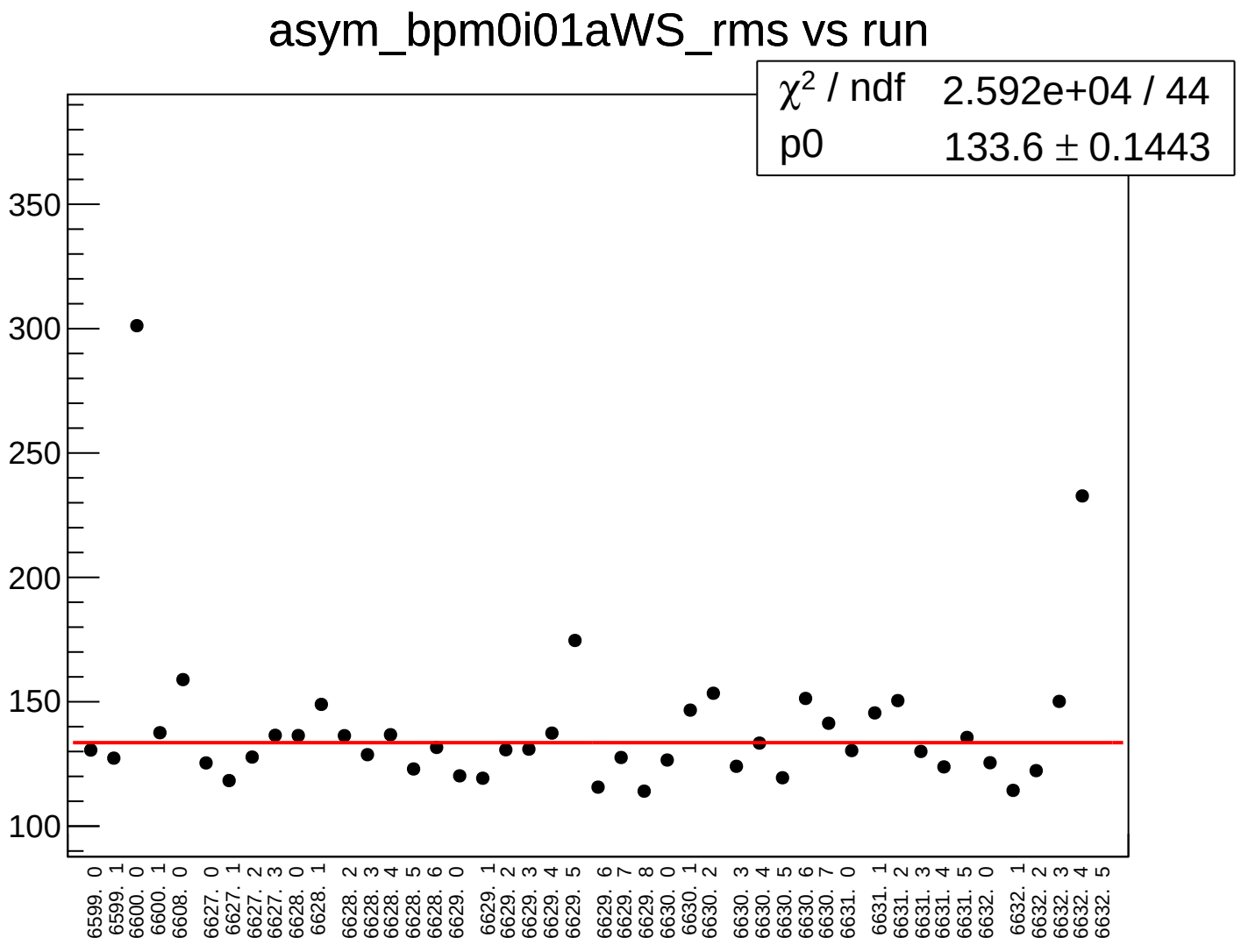

asym_bpm2i02WS_rms vs run
χ² / ndf 4.337e+04 / 44
p0 96.75 ± 0.1056
400
350
300
250
200
150
100
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_bpm0i01WS_mean vs run
χ² / ndf 456.1 / 44
p0 −1.179e+04 ± 230.1
5000
0
−5000
−10000
−15000
−20000
−25000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −989.5
Std Dev 0
10
8
6
4
2
0
−2
−4
−6
−8


pull1D
Entries 45
Mean −0.02326
Std Dev 2.518
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0i01WS_rms vs run
χ² / ndf 2.1e+04 / 44
p0 151 ± 0.1627
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_bpm0i01aWS_mean vs run
χ² / ndf 564.4 / 44
p0 −1.192e+04 ± 204.1
5000
0
−5000
−10000
−15000
−20000
−25000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −867
Std Dev 0
12
10
8
6
4
2
0
−2
−4
−6
−8
pull1D
Entries 45
Mean −0.2786
Std Dev 2.447
4
3.5
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 2.592e+04 / 44
p0 133.6 ± 0.1443
350
300
250
200
150
100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
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6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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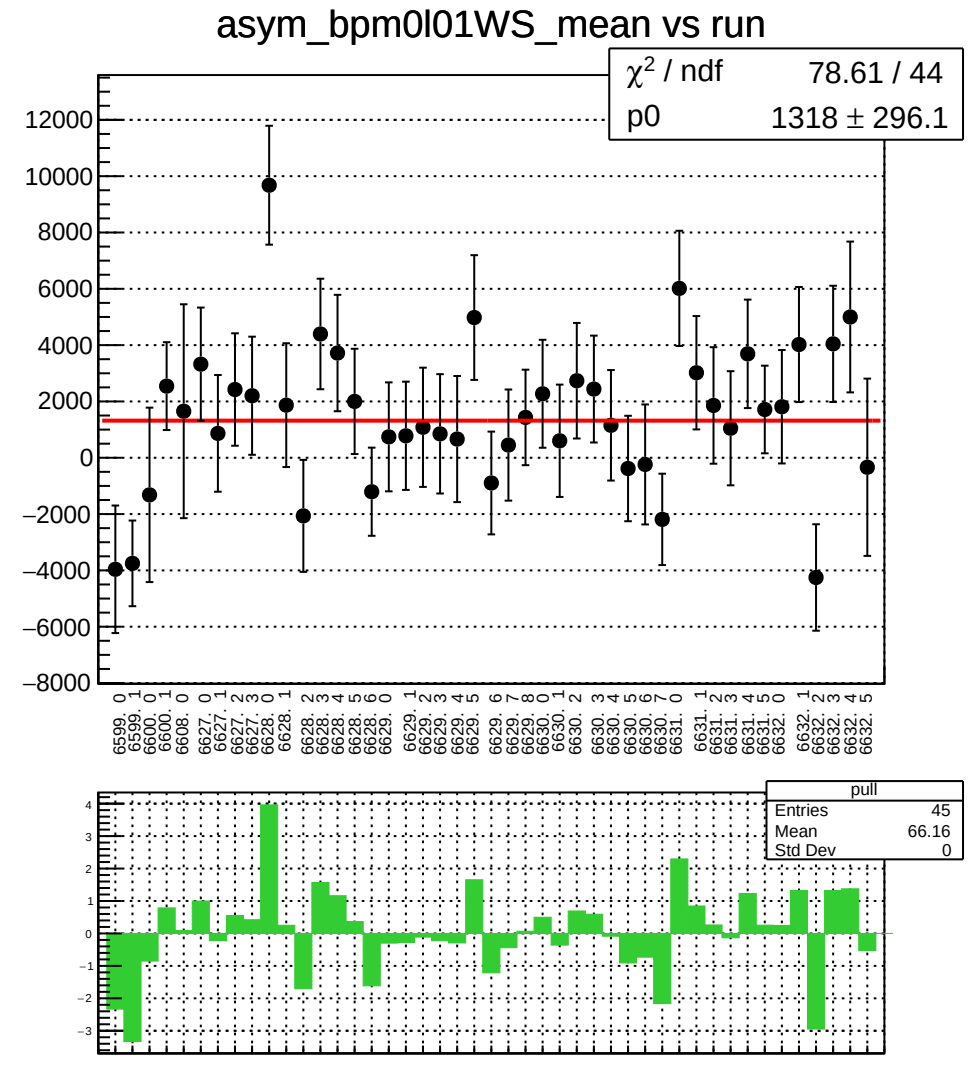
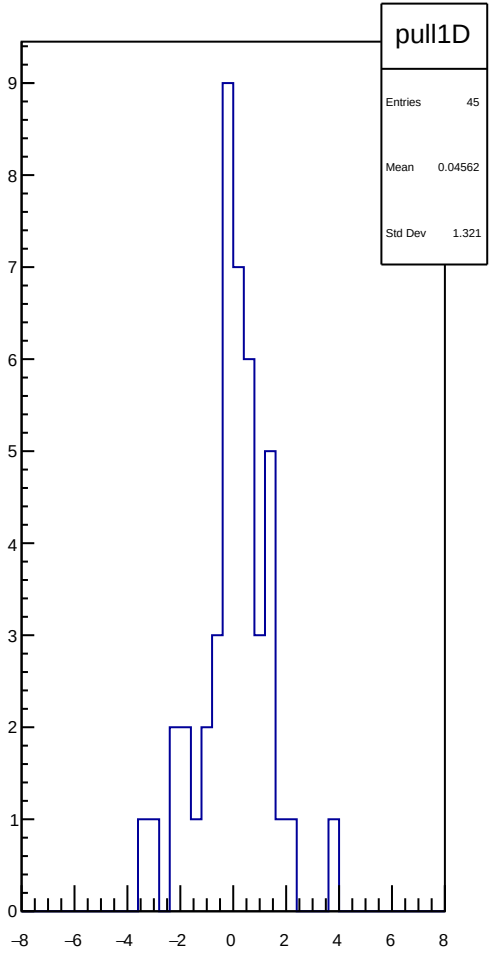
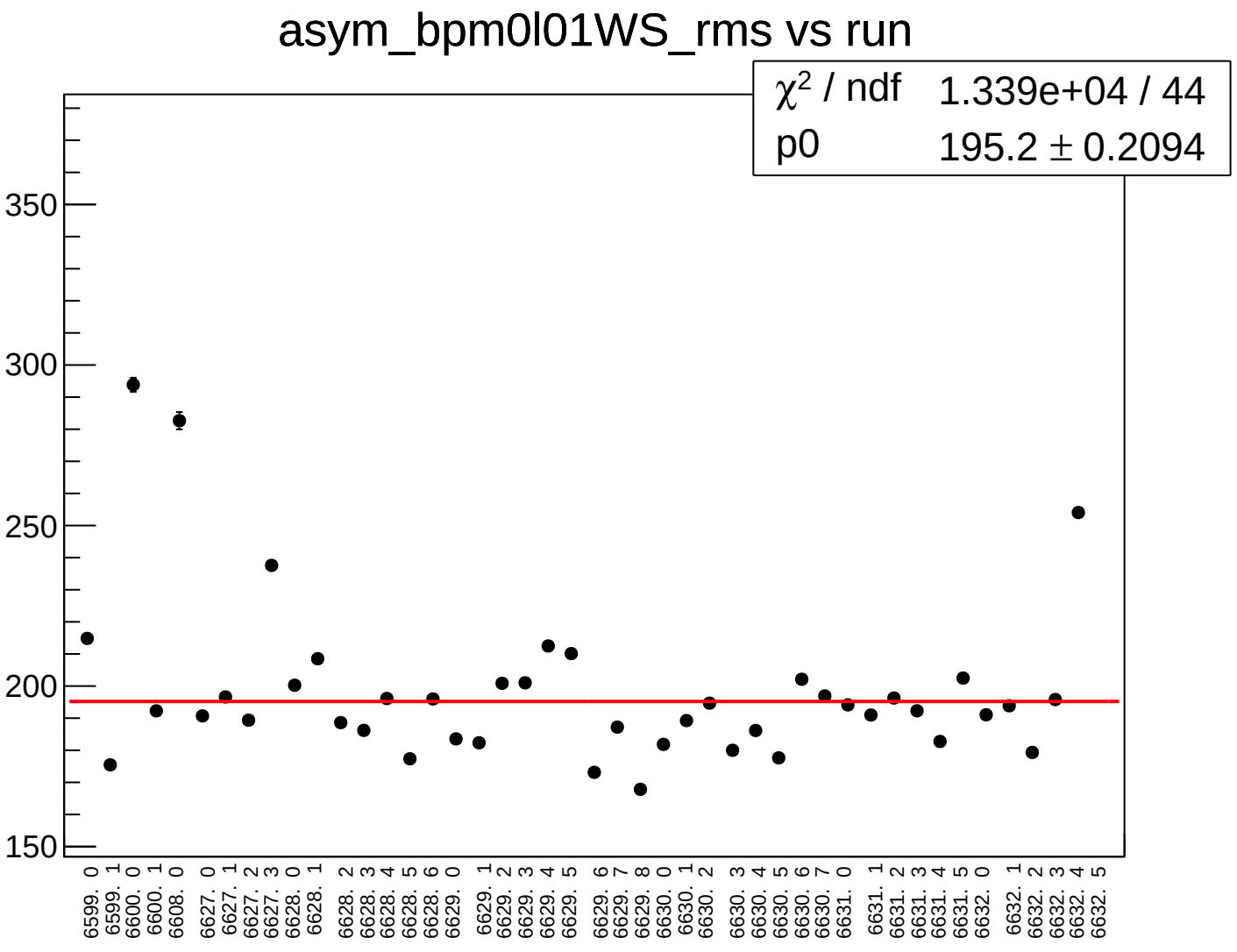
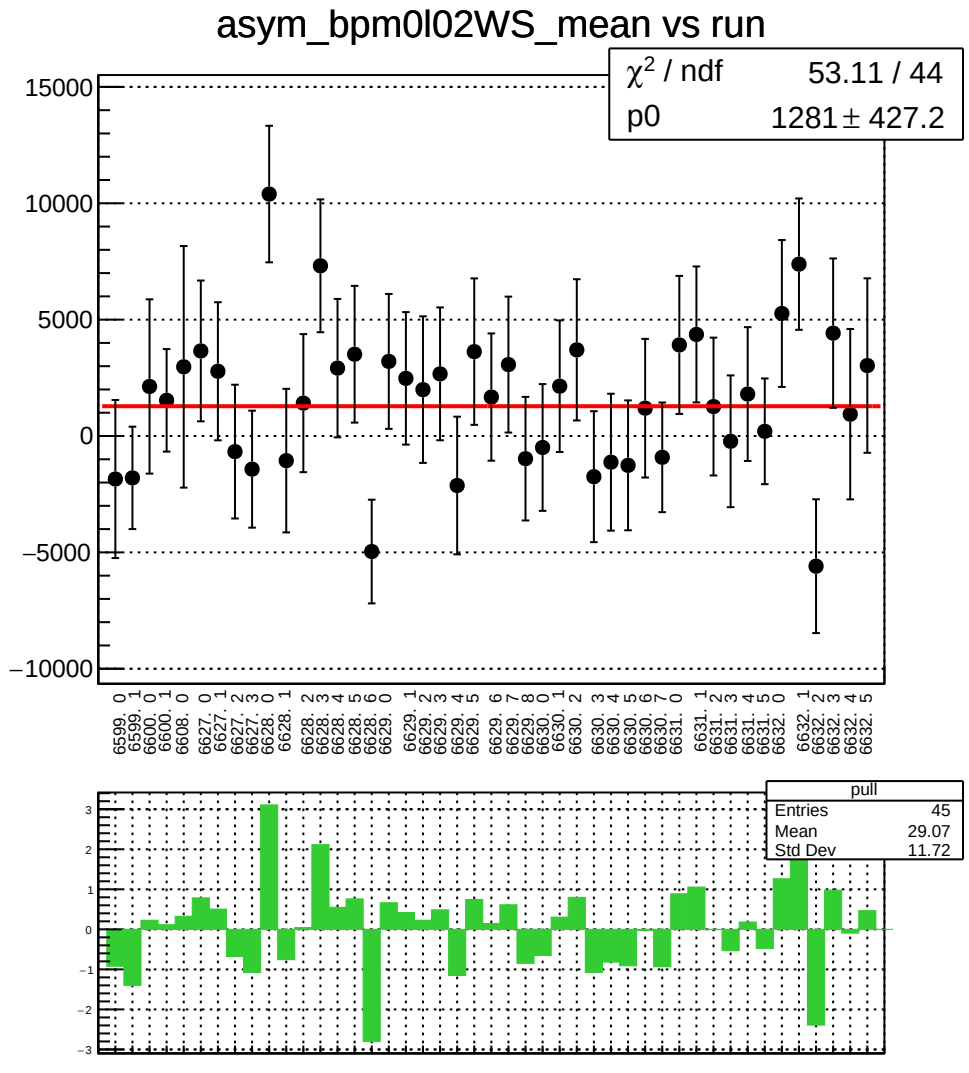
6632. 2
6632. 3
6632. 4
6632. 5


asym_bpm0l01WS_mean vs run
χ² / ndf 78.61 / 44
p0 1318 ± 296.1
pull
Entries 45
Mean 66.16
Std Dev 0


pull1D
Entries 45
Mean 0.04562
Std Dev 1.321


asym_bpm0l01WS_rms vs run
χ² / ndf 1.339e+04 / 44
p0 195.2 ± 0.2094
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_bpm0l02WS_mean vs run
χ² / ndf 53.11 / 44
p0 1281 ± 427.2
15000
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 29.07
Std Dev 11.72
3
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.05285
Std Dev 1.085
10
8
6
4
2
0
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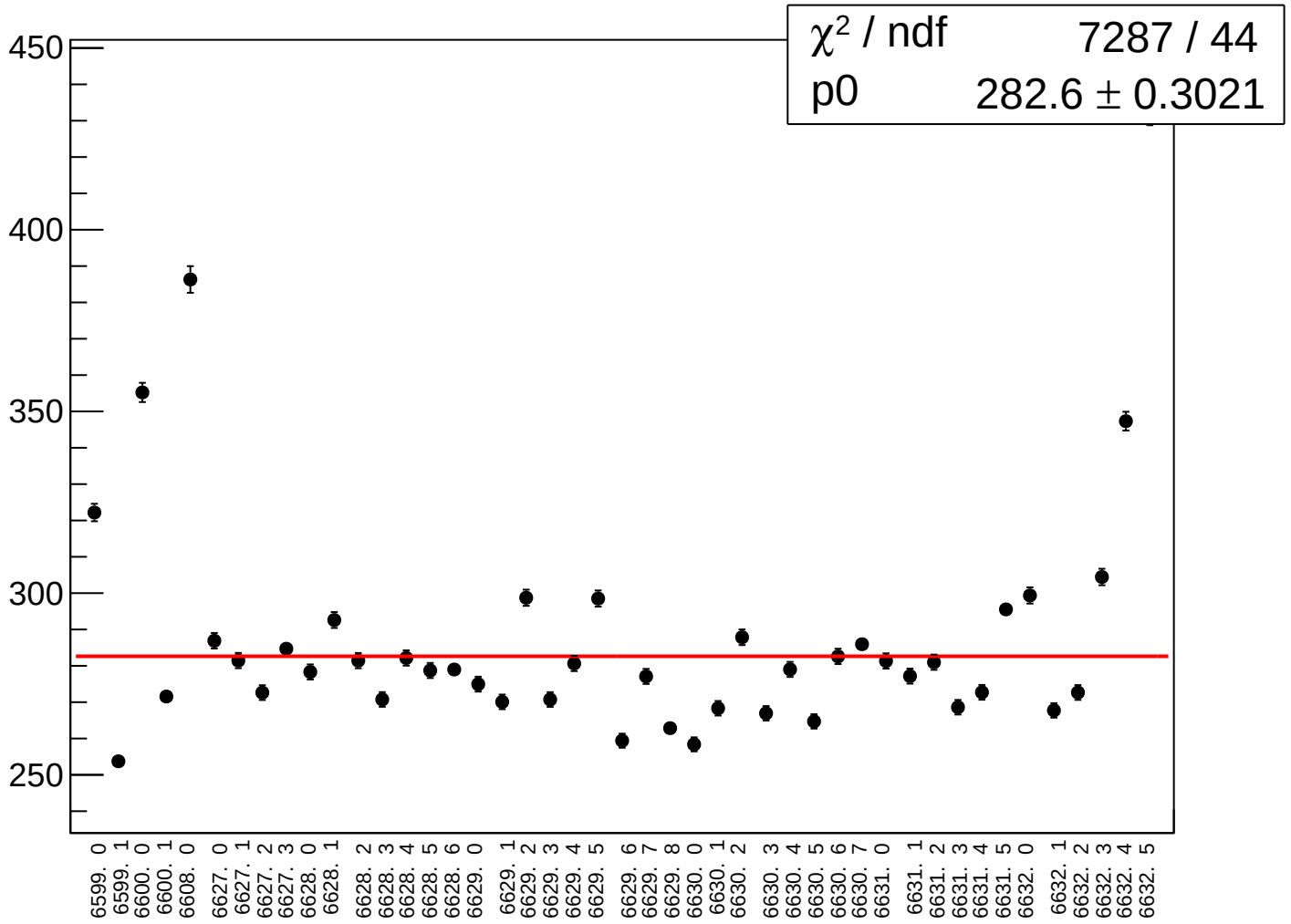
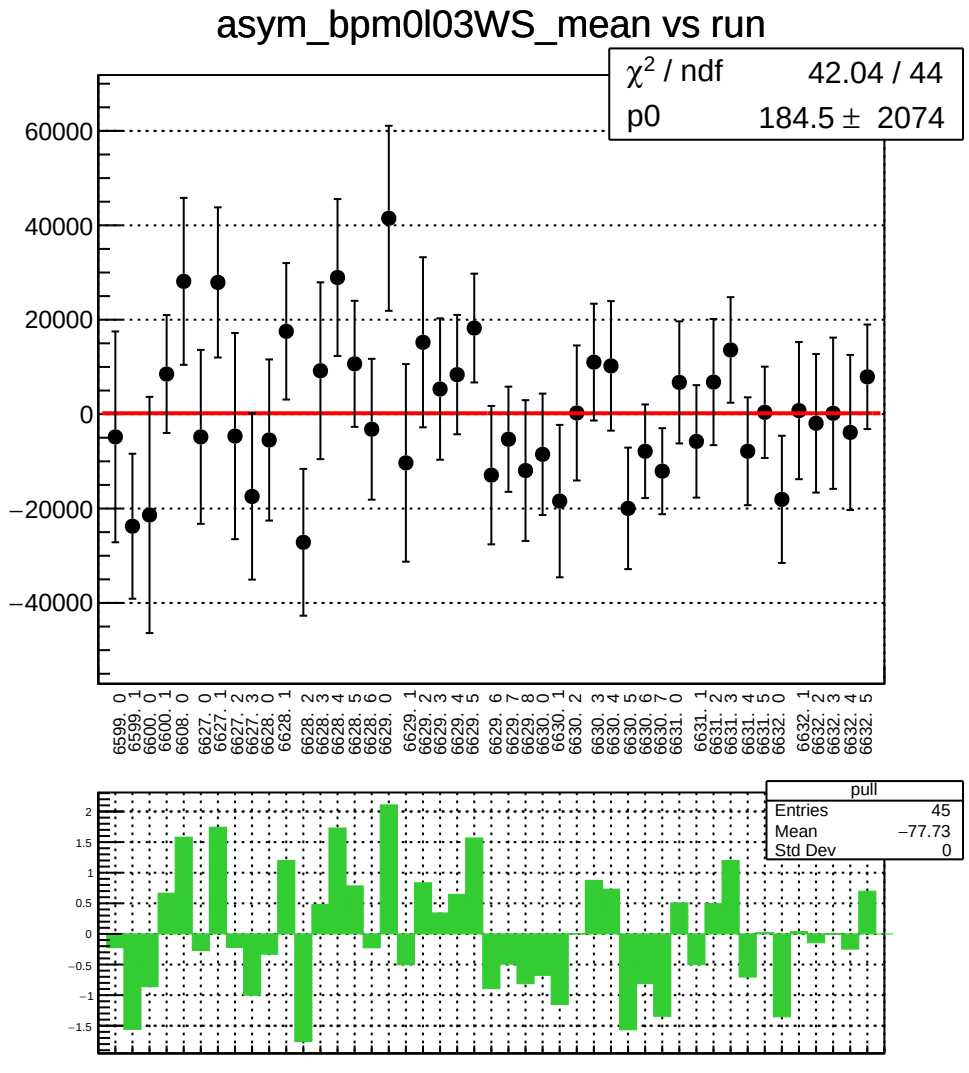
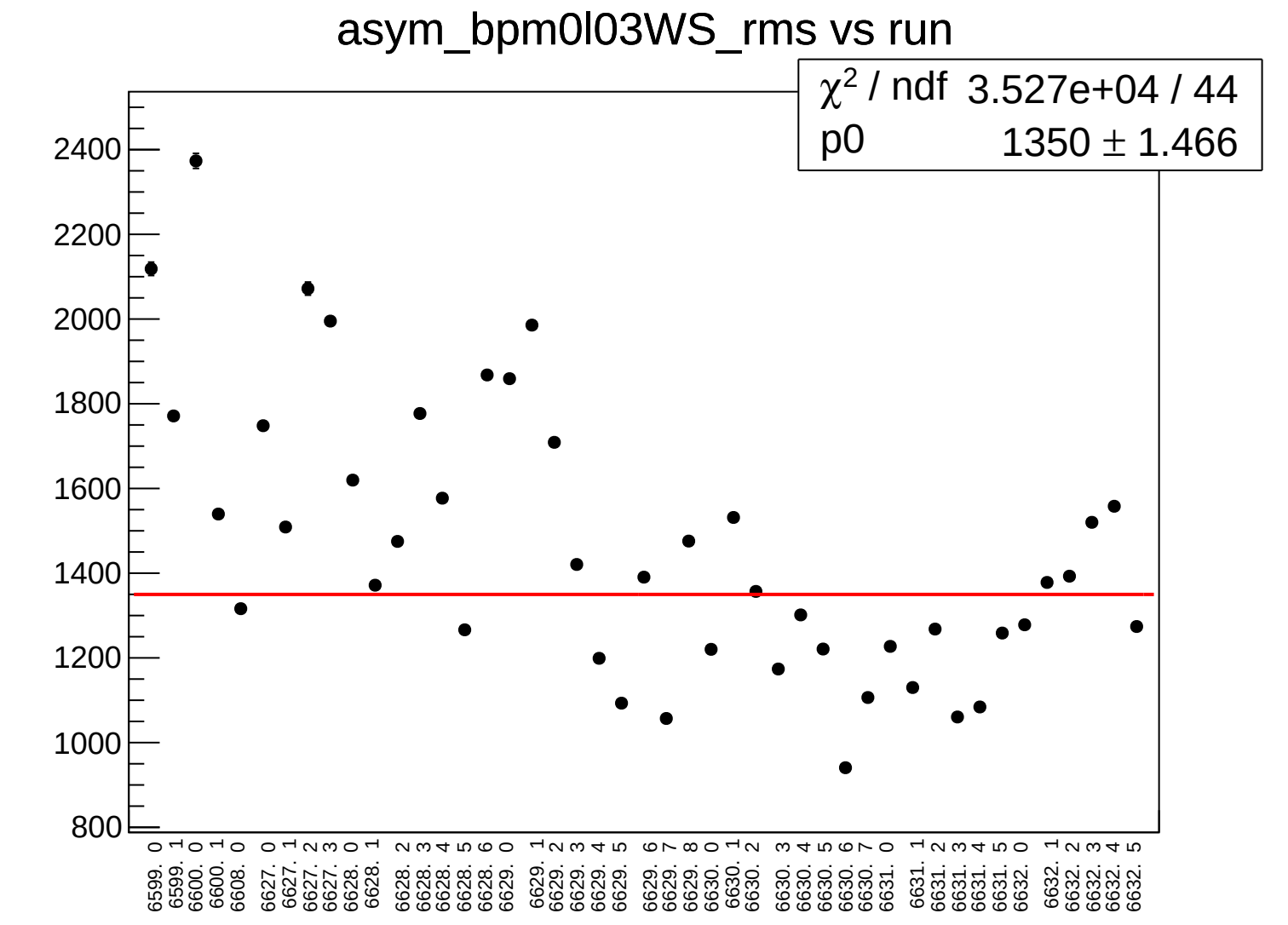
−6
−4
−2
0
2
4
6
8


asym_bpm0l02WS_rms vs run
χ² / ndf 7287 / 44
p0 282.6 ± 0.3021
450
400
350
300
250
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_bpm0l03WS_mean vs run
χ² / ndf 42.04 / 44
p0 184.5 ± 2074
60000
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −77.73
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.01316
Std Dev 0.9665
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l03WS_rms vs run
χ² / ndf 3.527e+04 / 44
p0 1350 ± 1.466
2400
2200
2000
1800
1600
1400
1200
1000
800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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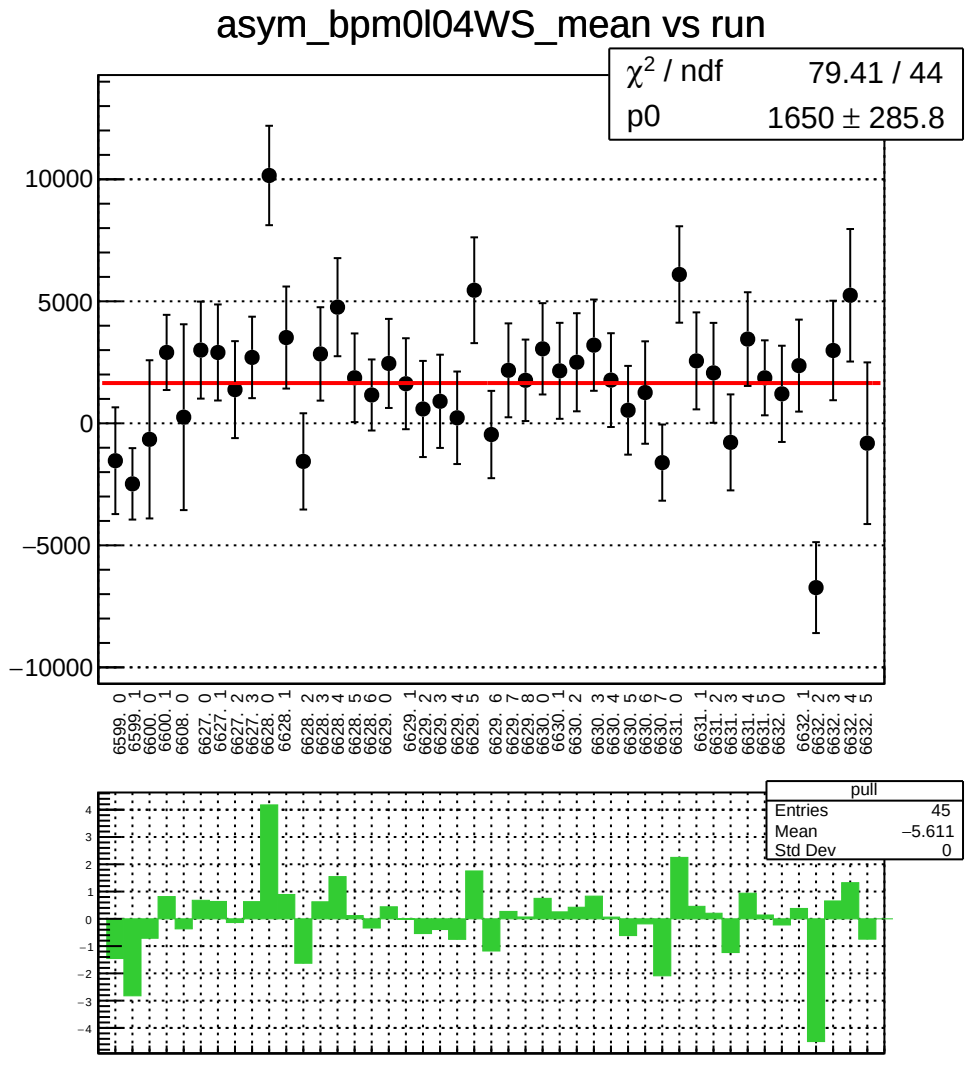
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_bpm0l04WS_mean vs run
χ² / ndf 79.41 / 44
p0 1650 ± 285.8
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 6
6630. 7
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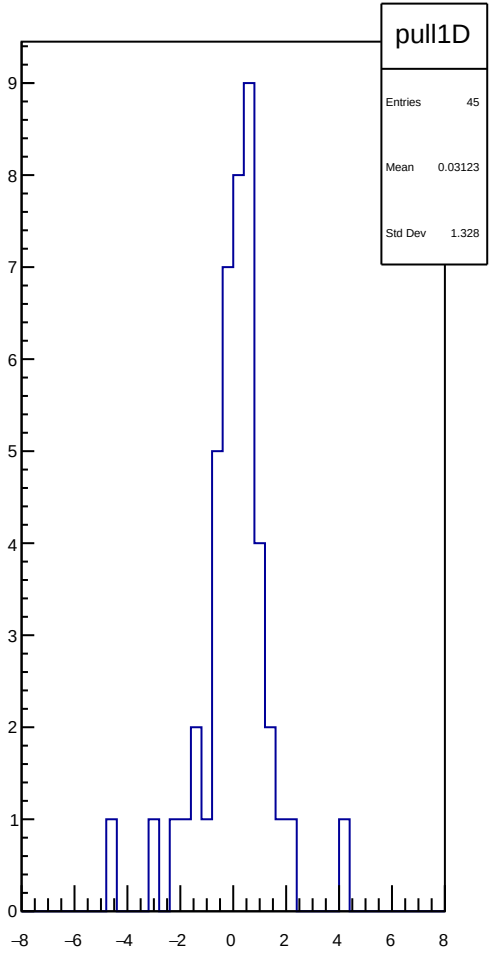
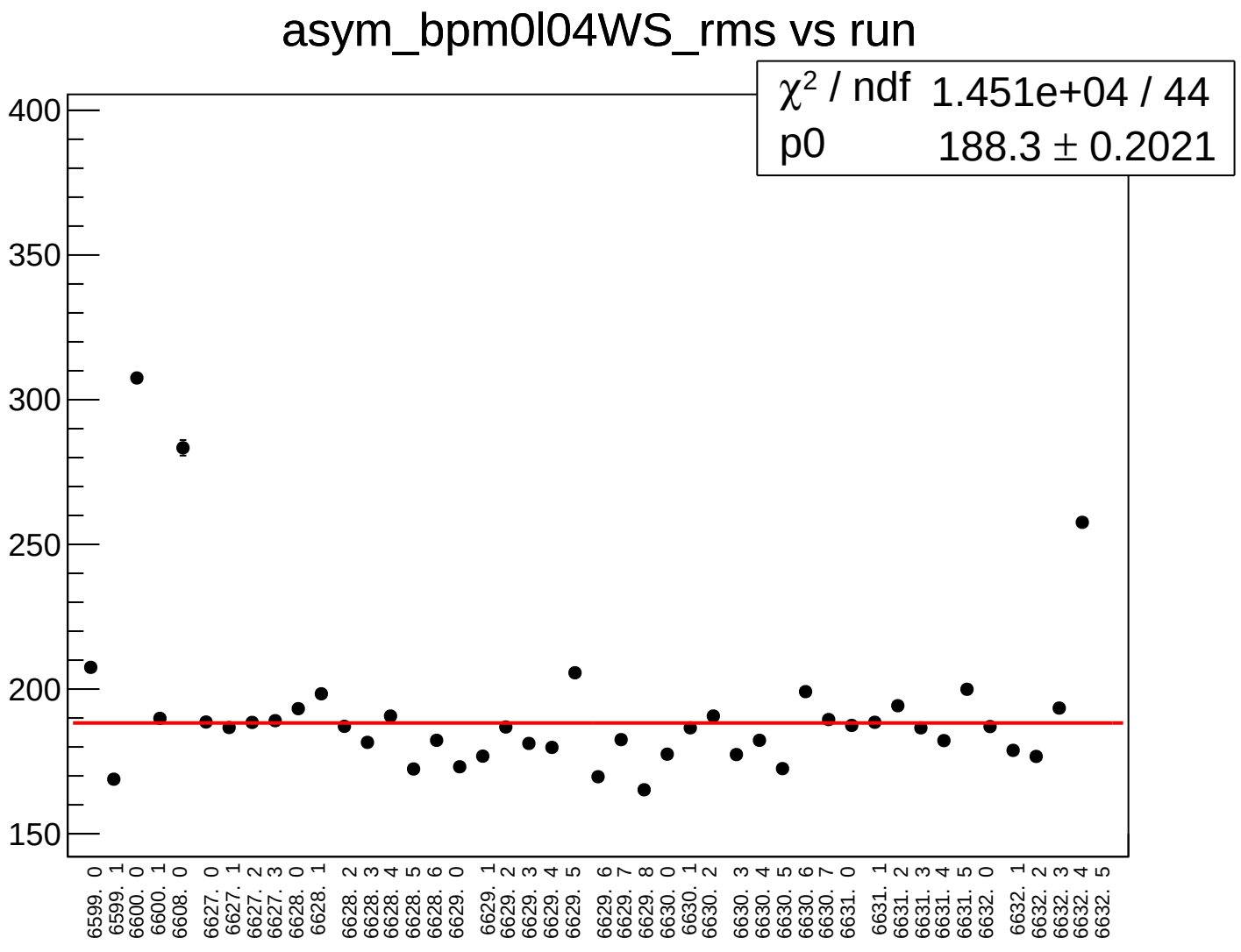
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −5.611
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4


pull1D
Entries 45
Mean 0.03123
Std Dev 1.328
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l04WS_rms vs run
χ² / ndf 1.451e+04 / 44
p0 188.3 ± 0.2021
400
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
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6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
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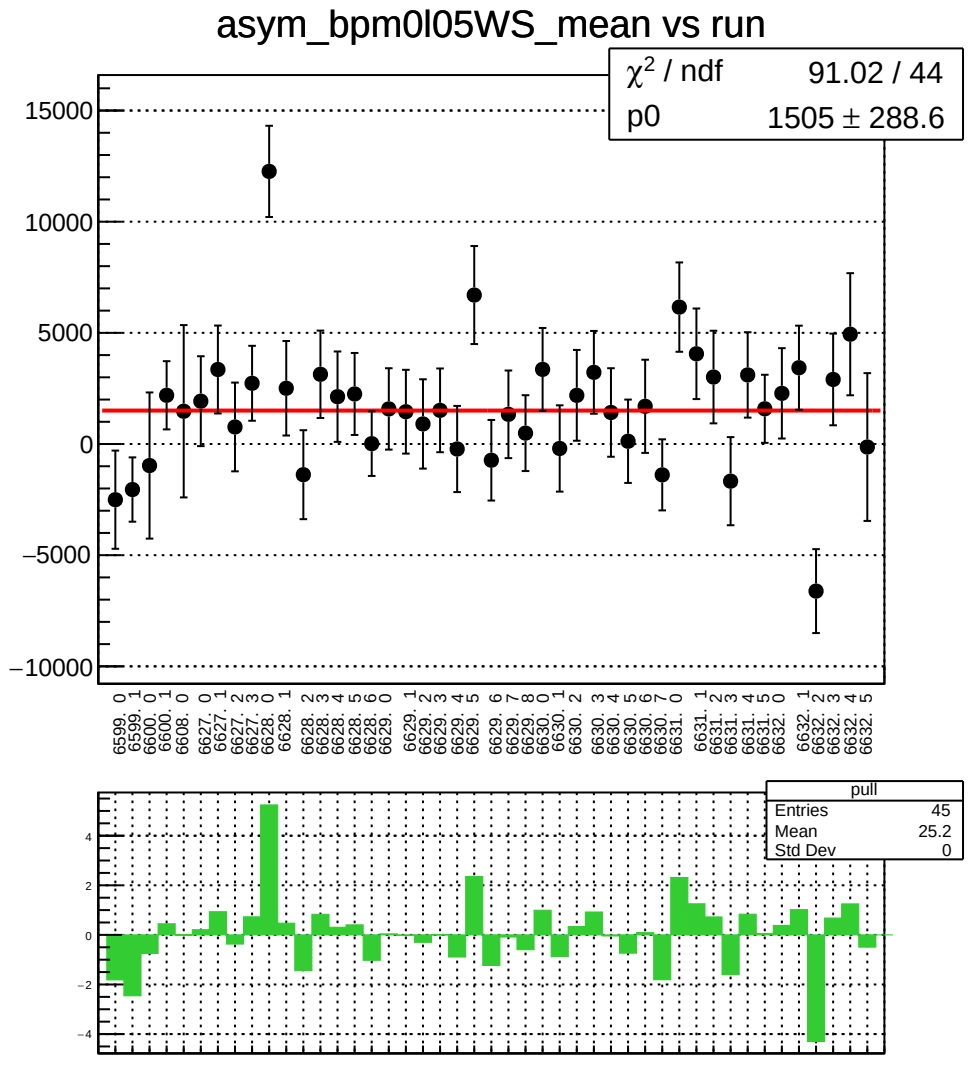
6632. 5


asym_bpm0l05WS_mean vs run
χ² / ndf 91.02 / 44
p0 1505 ± 288.6
15000
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
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6628. 5
6628. 6
6629. 0
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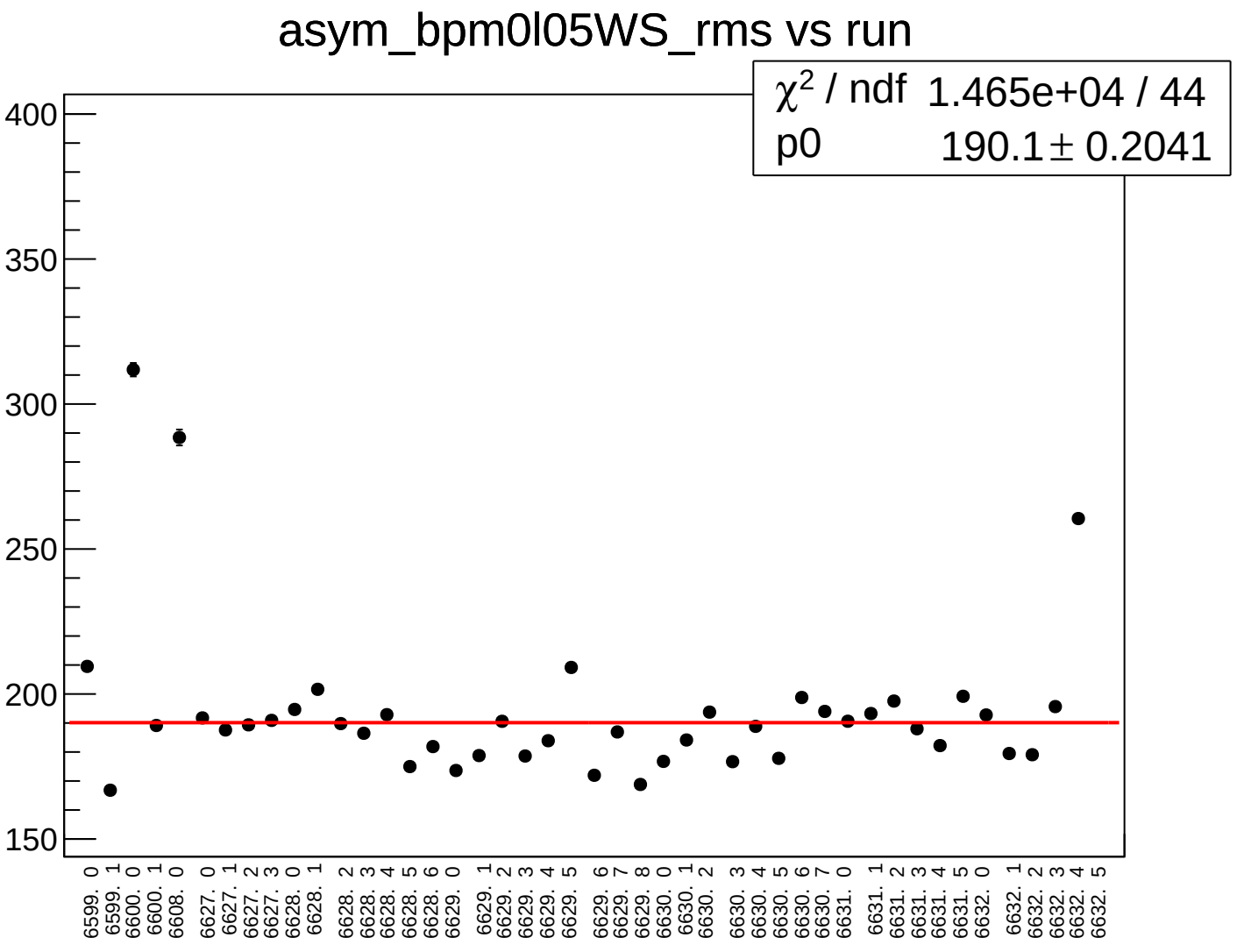
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 25.2
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 45
Mean 0.04363
Std Dev 1.422
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l05WS_rms vs run
χ² / ndf 1.465e+04 / 44
p0 190.1 ± 0.2041
400
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
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6629. 6
6629. 7
6629. 8
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6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
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6631. 2
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6631. 4
6631. 5
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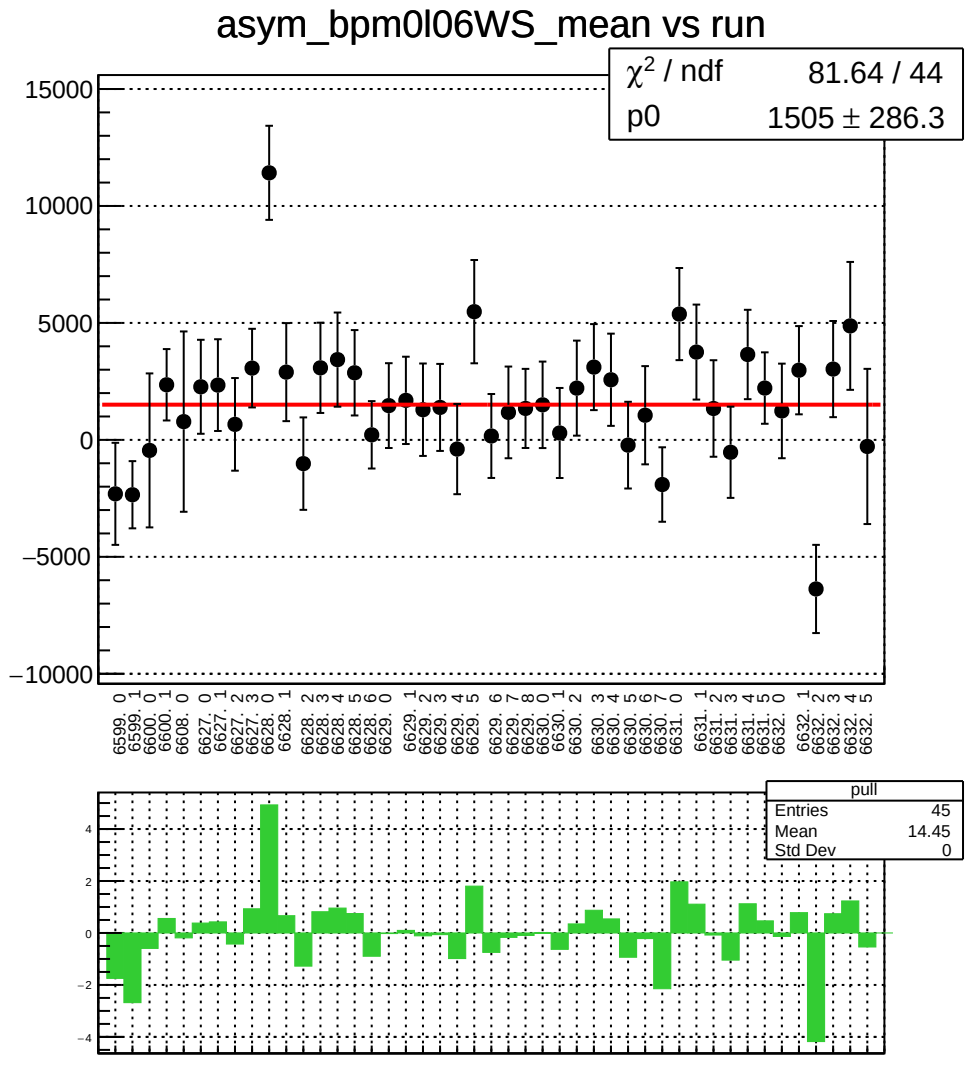
6632. 2
6632. 3
6632. 4
6632. 5


asym_bpm0l06WS_mean vs run
χ² / ndf 81.64 / 44
p0 1505 ± 286.3
15000
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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6628. 2
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6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
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6630. 1
6630. 2
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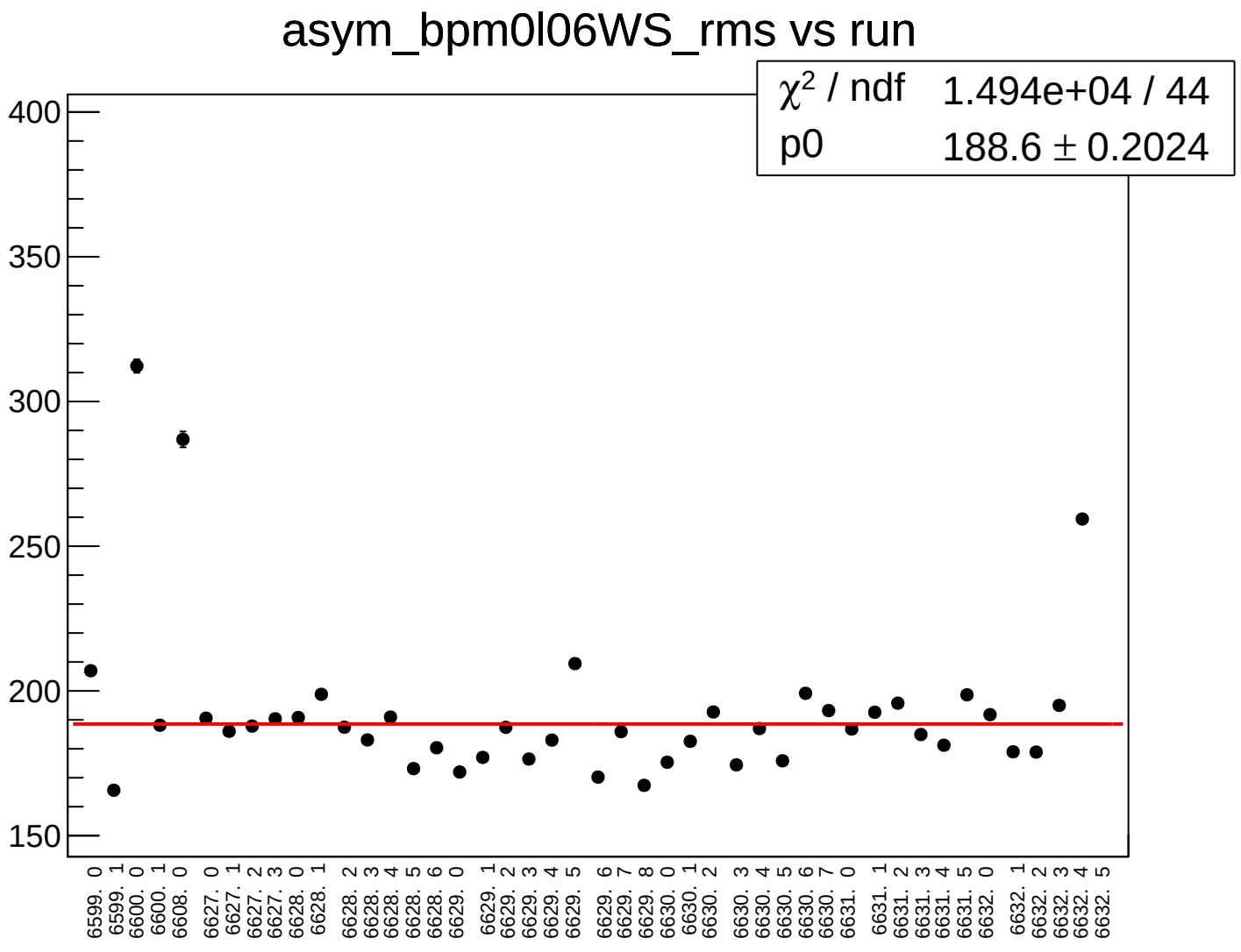
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 14.45
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 45
Mean 0.03523
Std Dev 1.346
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l06WS_rms vs run
χ² / ndf 1.494e+04 / 44
p0 188.6 ± 0.2024
400
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
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6631. 5
6632. 0
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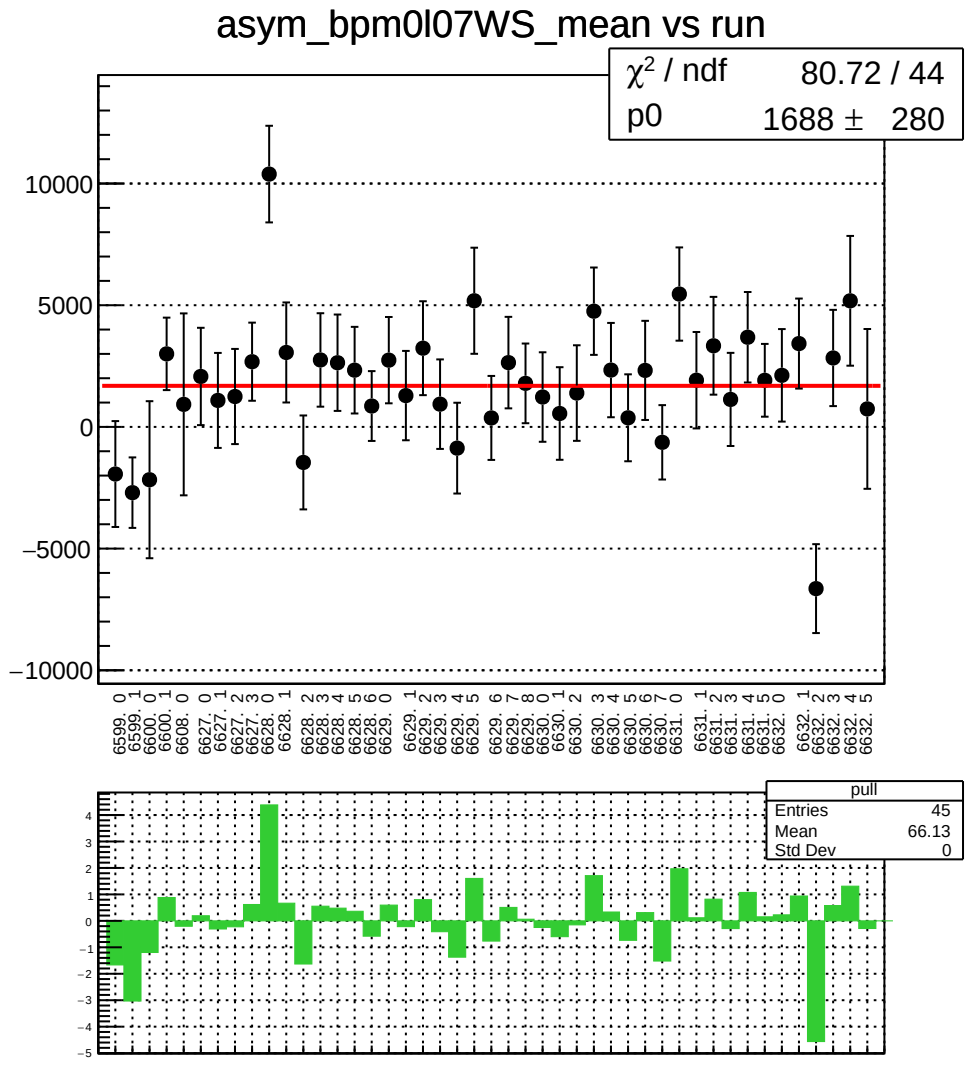
6632. 2
6632. 3
6632. 4
6632. 5


asym_bpm0l07WS_mean vs run
χ² / ndf 80.72 / 44
p0 1688 ± 280
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
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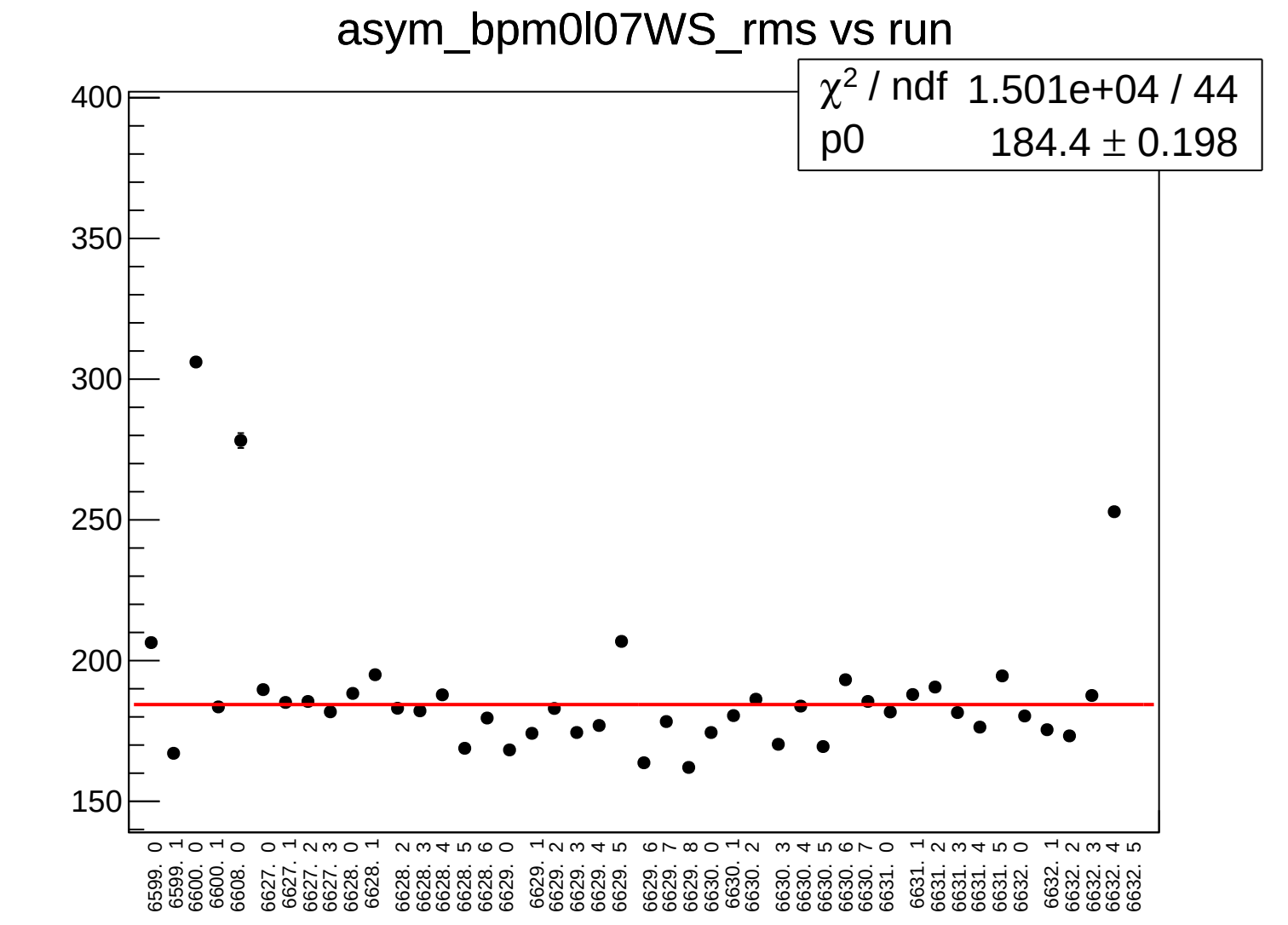
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 66.13
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 45
Mean 0.02772
Std Dev 1.339
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l07WS_rms vs run
χ² / ndf 1.501e+04 / 44
p0 184.4 ± 0.198
400
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
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6630. 2
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6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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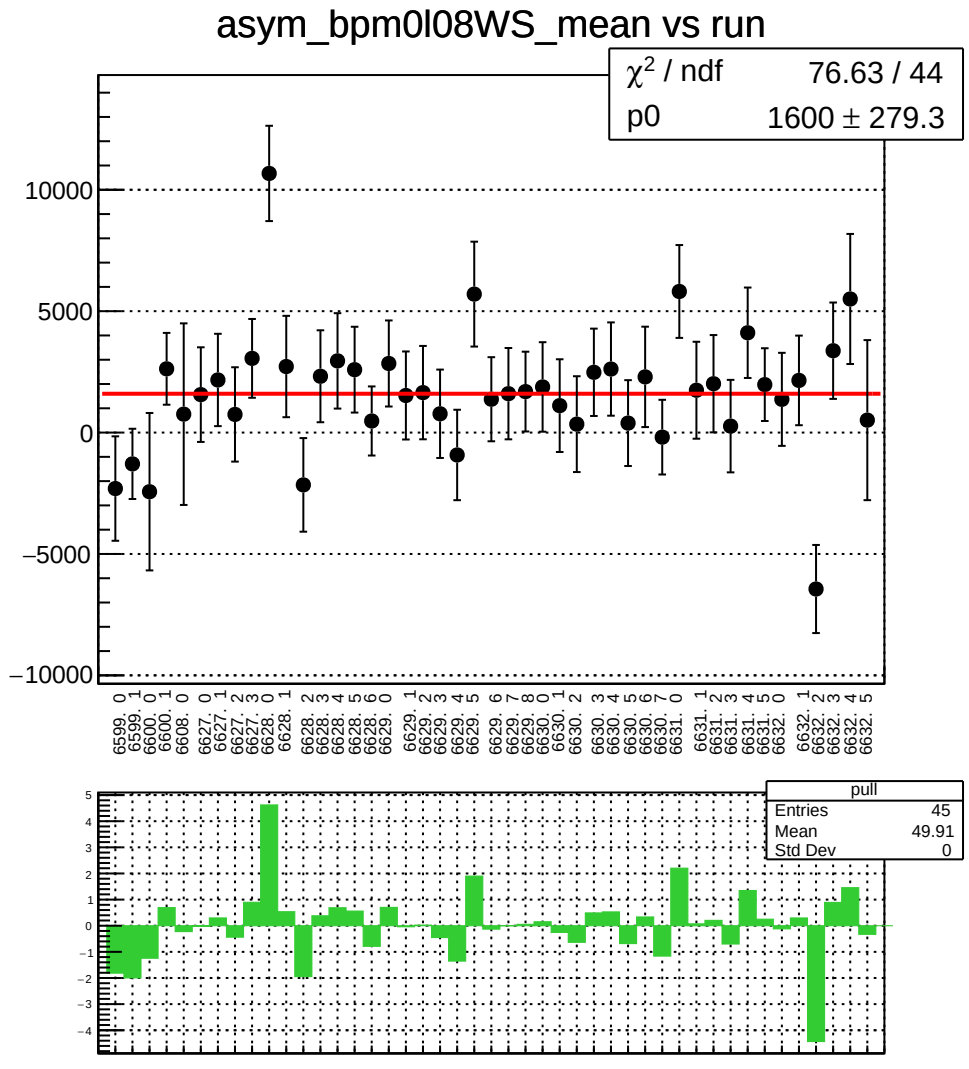
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_bpm0l08WS_mean vs run
χ² / ndf 76.63 / 44
p0 1600 ± 279.3
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
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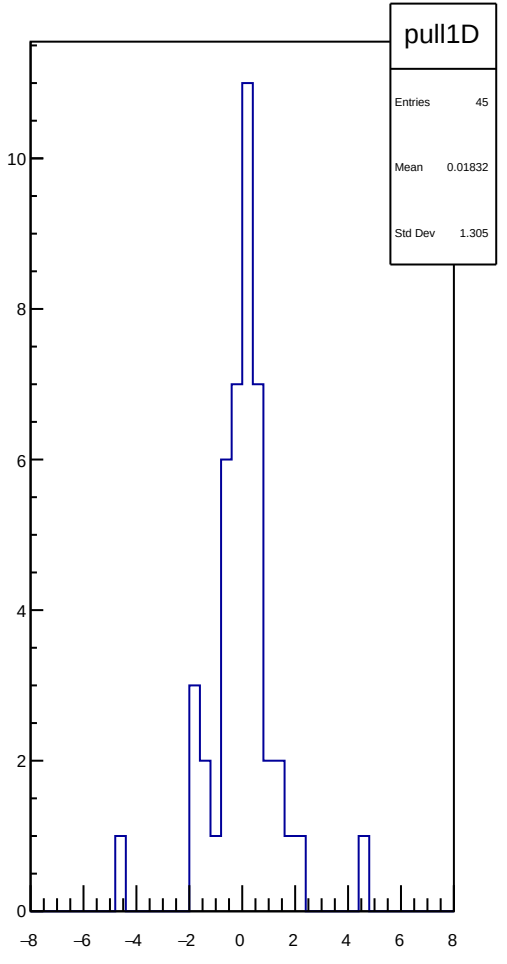
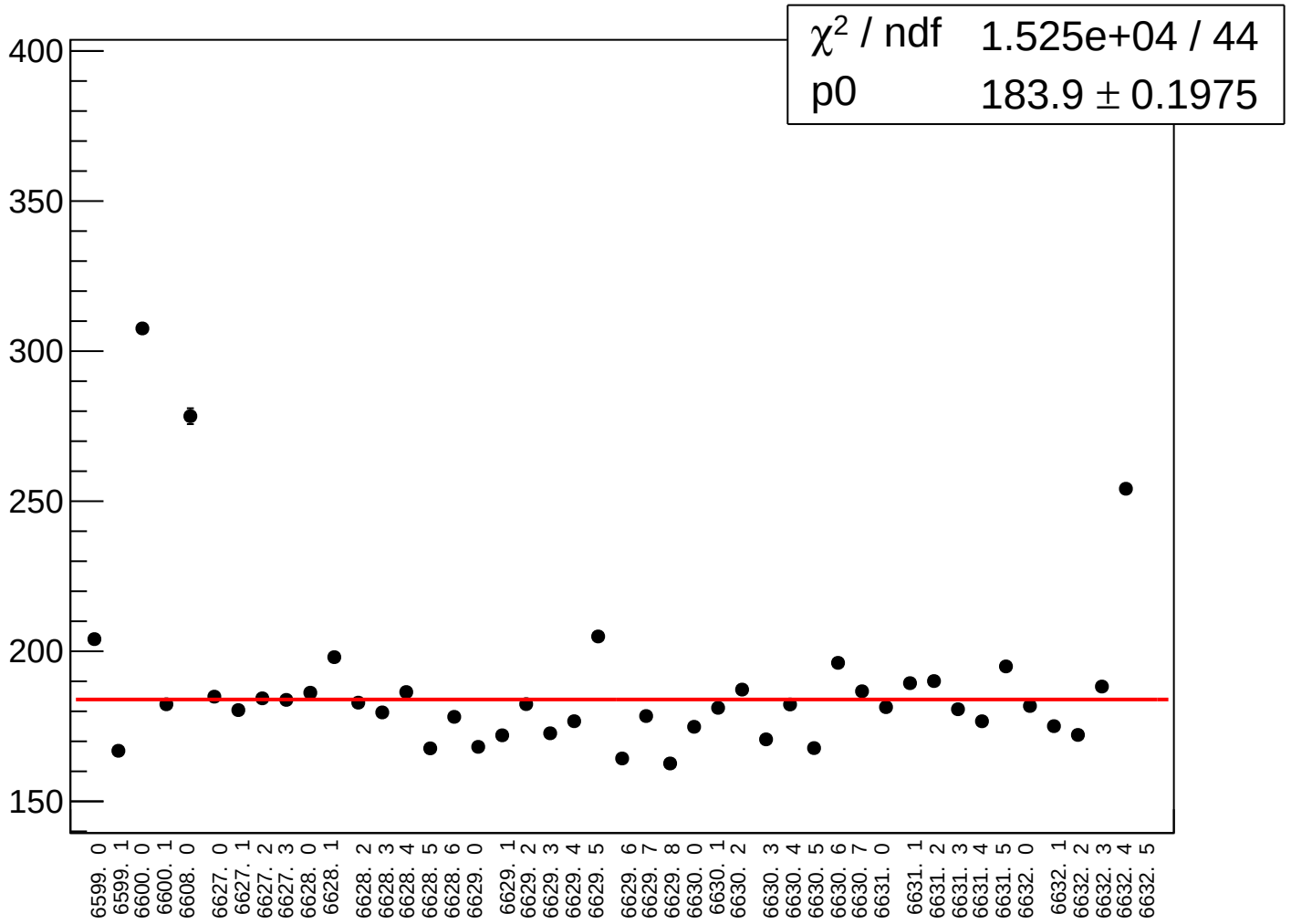
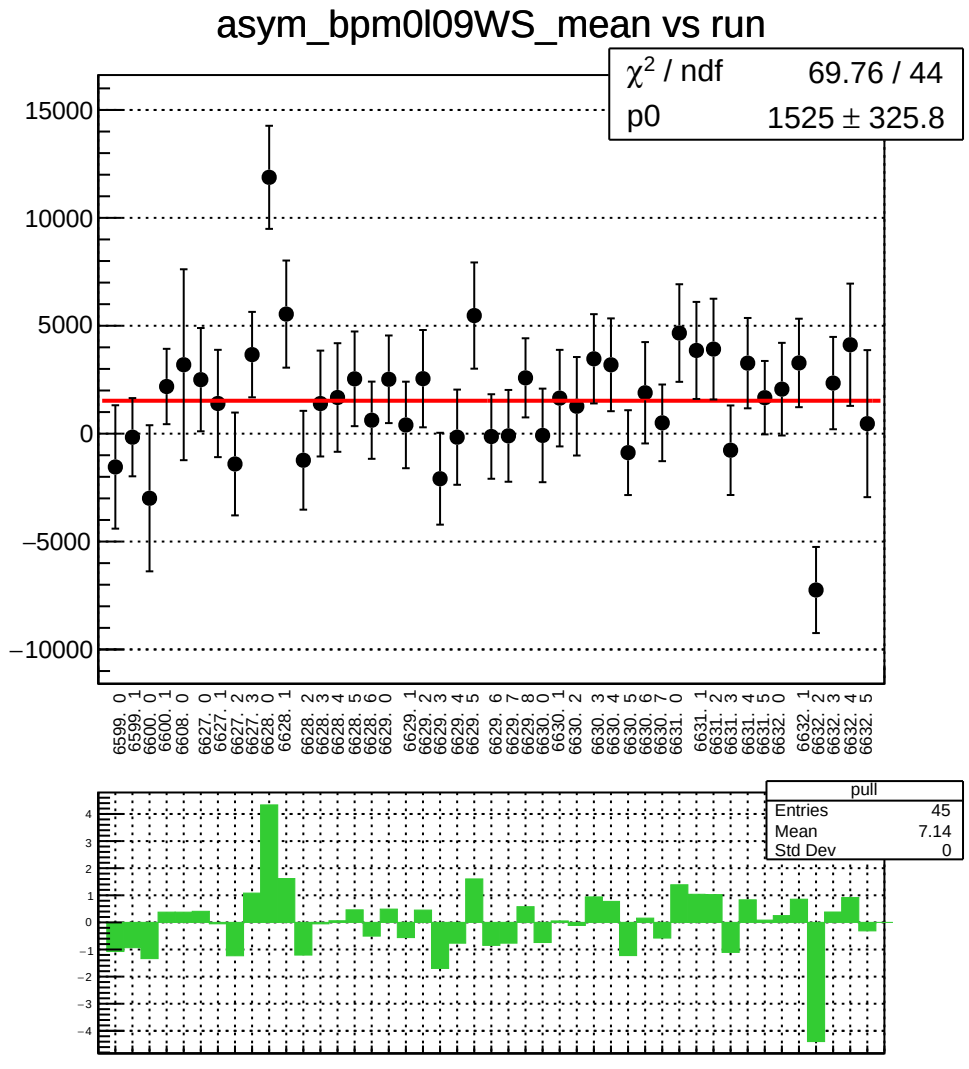
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 49.91
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
−4


pull1D
Entries 45
Mean 0.01832
Std Dev 1.305
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l08WS_rms vs run
χ² / ndf 1.525e+04 / 44
p0 183.9 ± 0.1975
400
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_bpm0l09WS_mean vs run
χ² / ndf 69.76 / 44
p0 1525 ± 325.8
15000
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 7.14
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 45
Mean 0.02348
Std Dev 1.245
8
7
6
5
4
3
2
1
0
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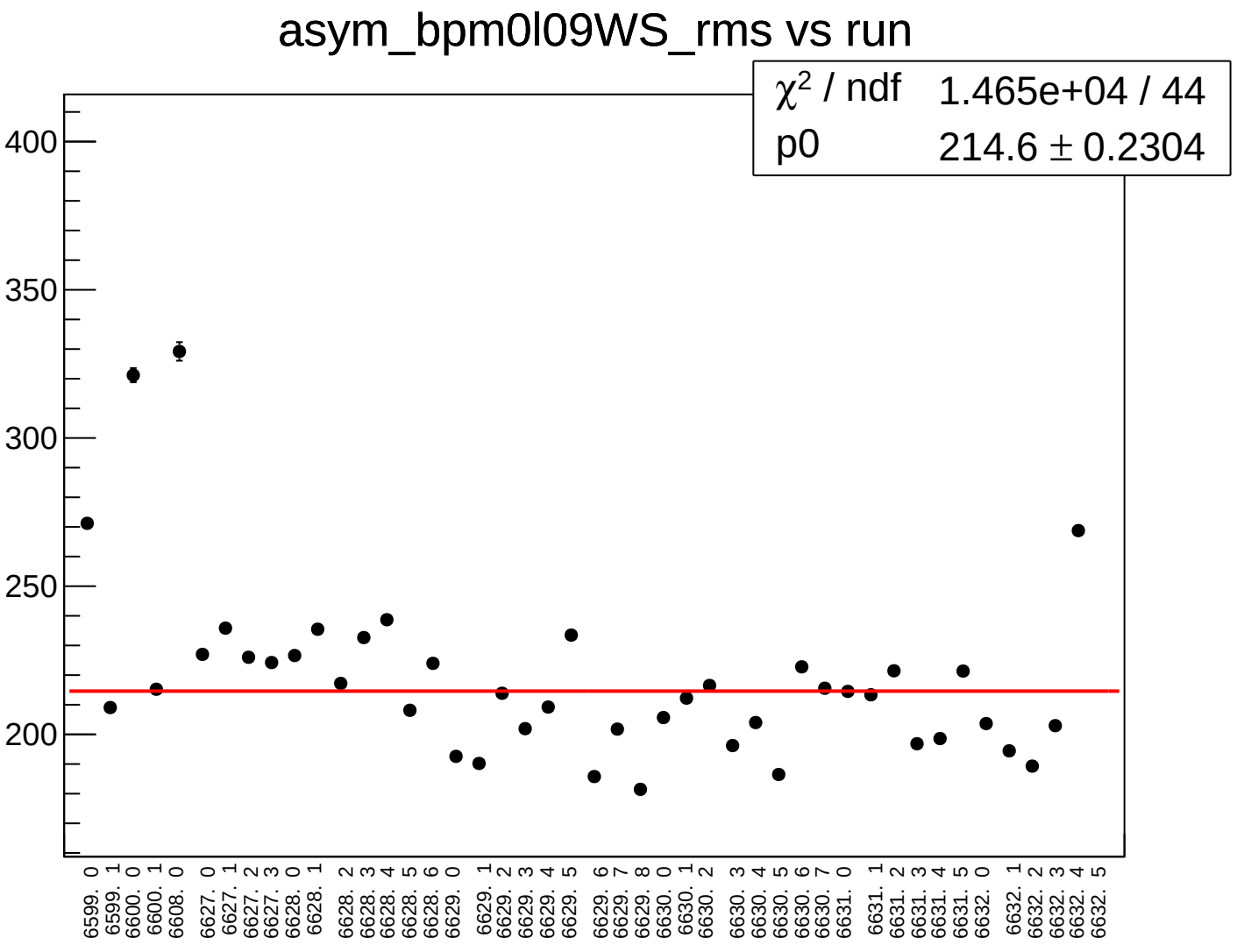
−6
−4
−2
0
2
4
6
8


asym_bpm0l09WS_rms vs run
χ² / ndf 1.465e+04 / 44
p0 214.6 ± 0.2304
400
350
300
250
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
6631. 5
6632. 0
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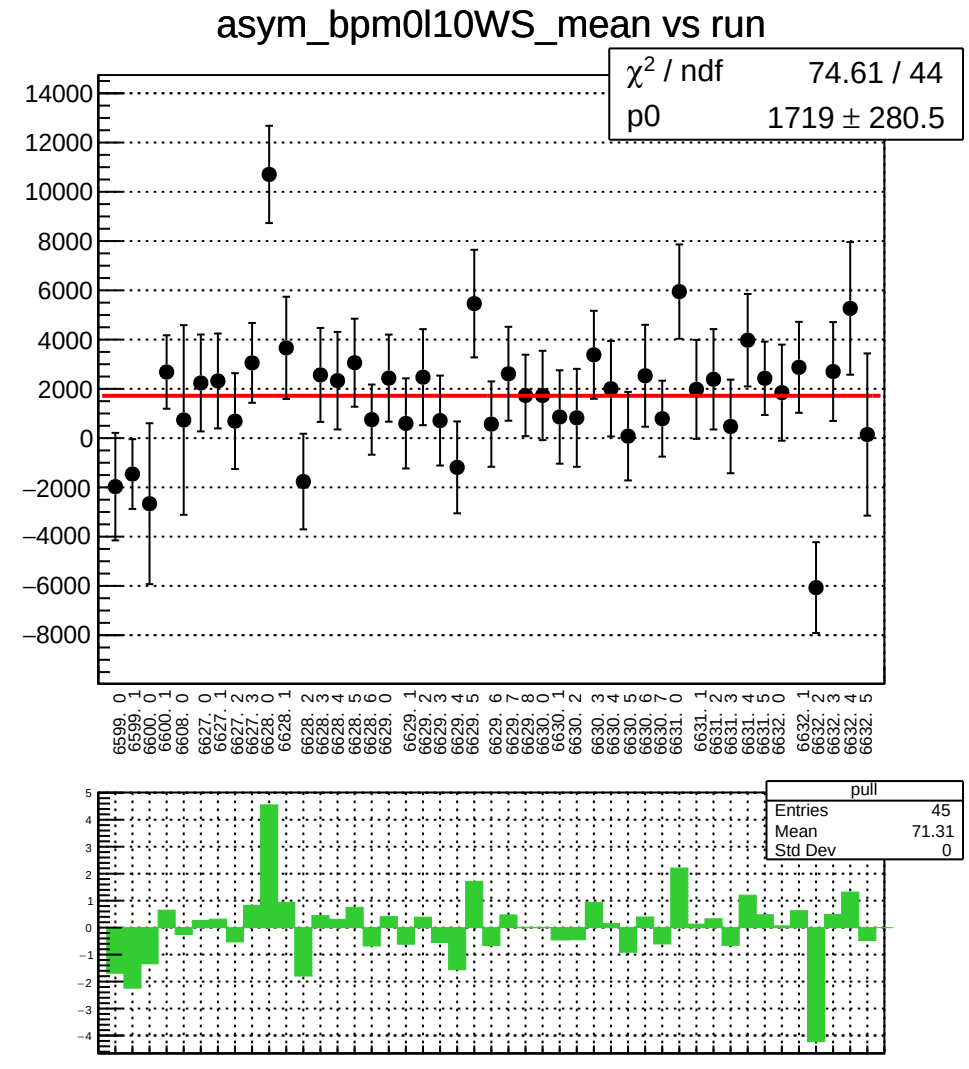
6632. 2
6632. 3
6632. 4
6632. 5


asym_bpm0l10WS_mean vs run
χ² / ndf 74.61 / 44
p0 1719 ± 280.5
14000
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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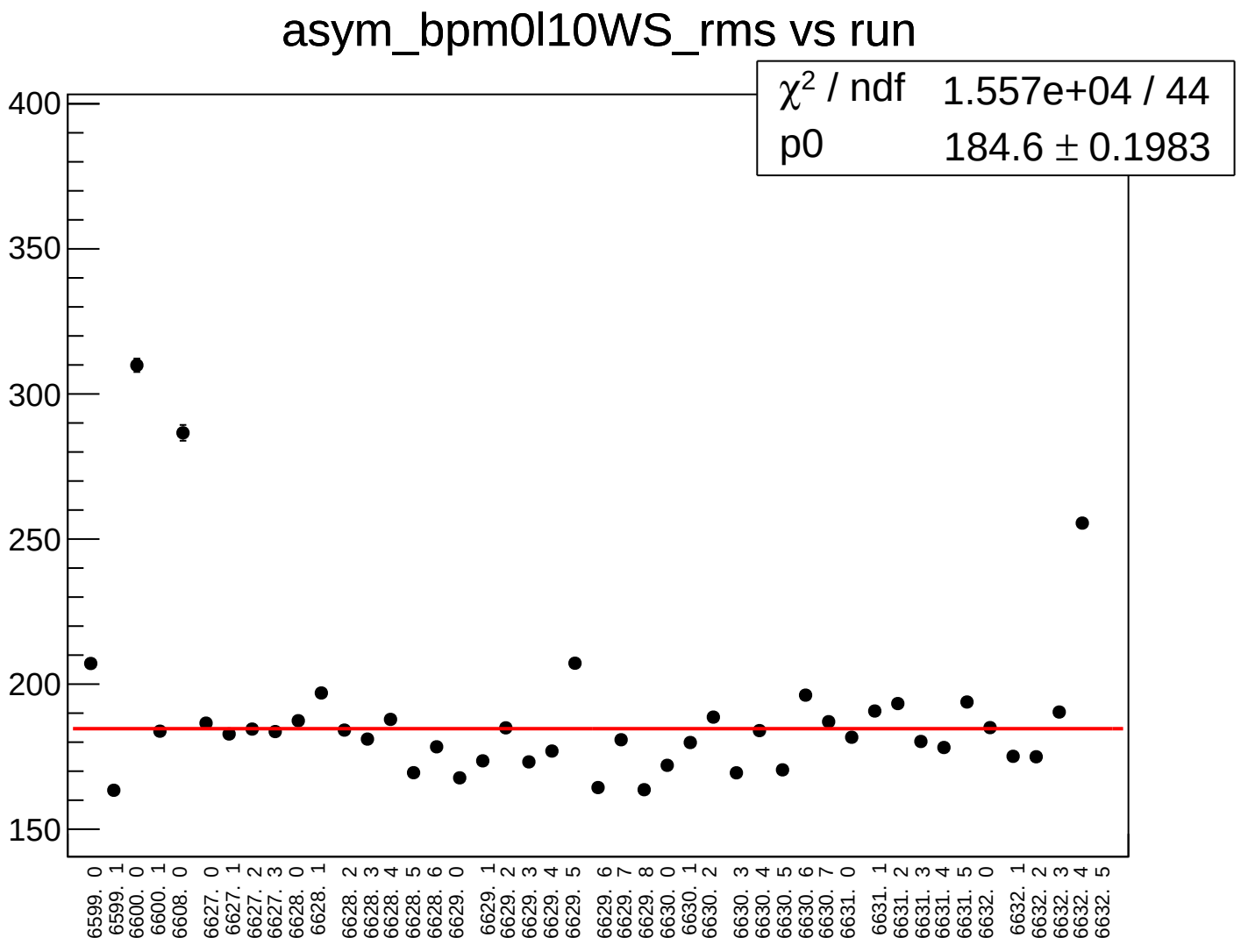
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 71.31
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 45
Mean 0.01468
Std Dev 1.288
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l10WS_rms vs run
χ² / ndf 1.557e+04 / 44
p0 184.6 ± 0.1983
400
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
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6629. 0
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6630. 1
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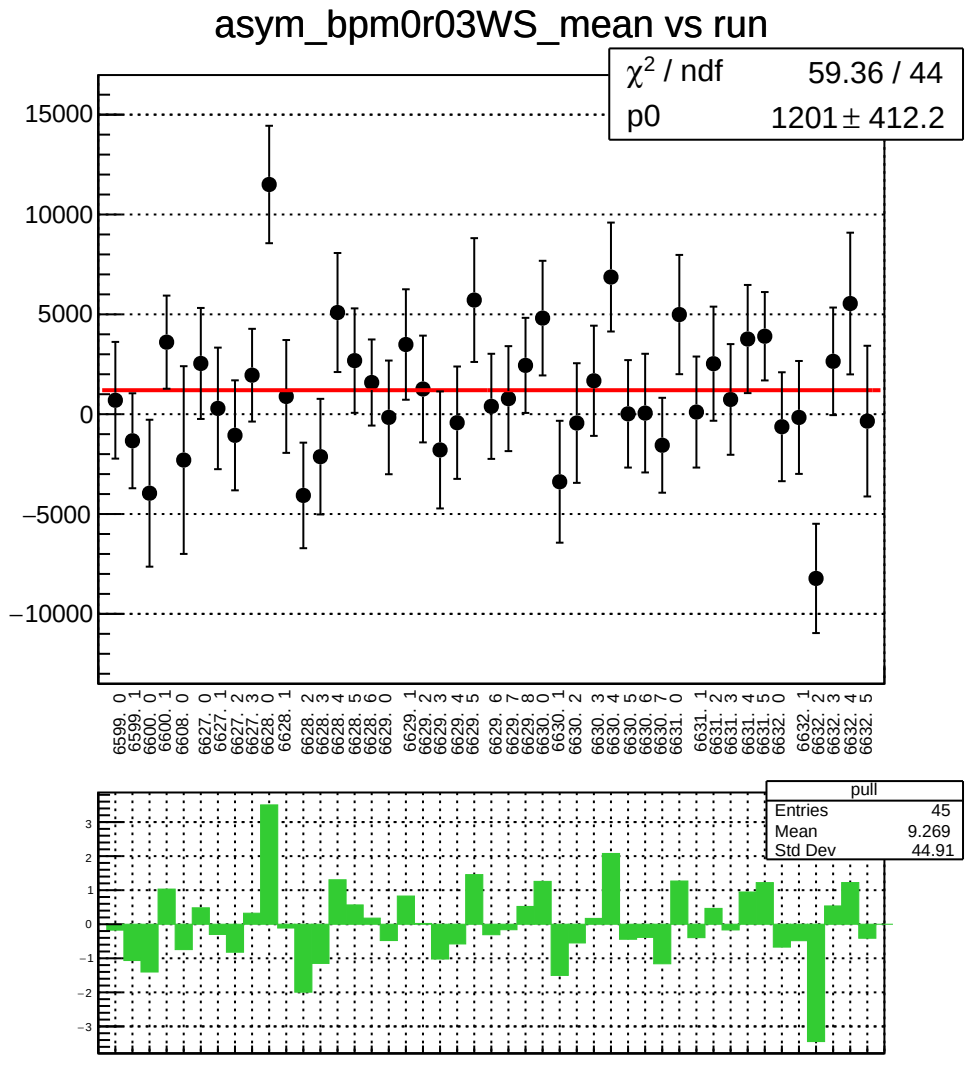
6632. 4
6632. 5


asym_bpm0r03WS_mean vs run
χ² / ndf 59.36 / 44
p0 1201 ± 412.2
15000
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6629. 1
6629. 2
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6629. 7
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6630. 1
6630. 2
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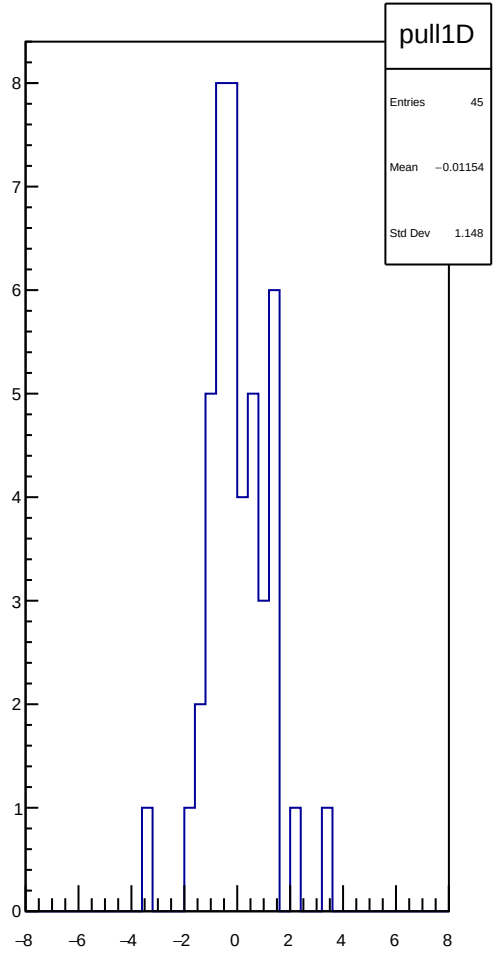
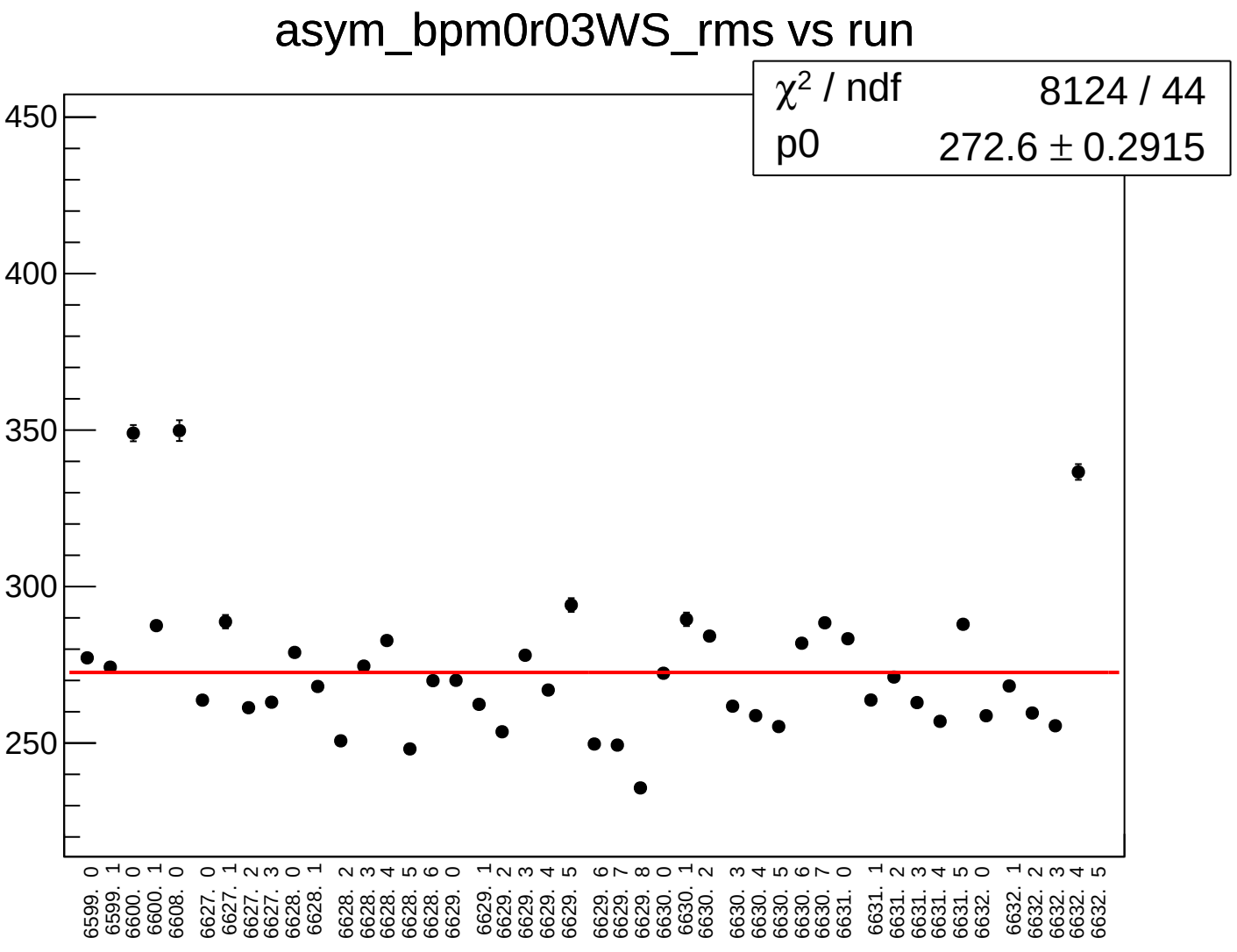
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 9.269
Std Dev 44.91
3
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.01154
Std Dev 1.148
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0r03WS_rms vs run
χ² / ndf 8124 / 44
p0 272.6 ± 0.2915
450
400
350
300
250
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6629. 0
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6630. 6
6630. 7
6631. 0
6631. 1
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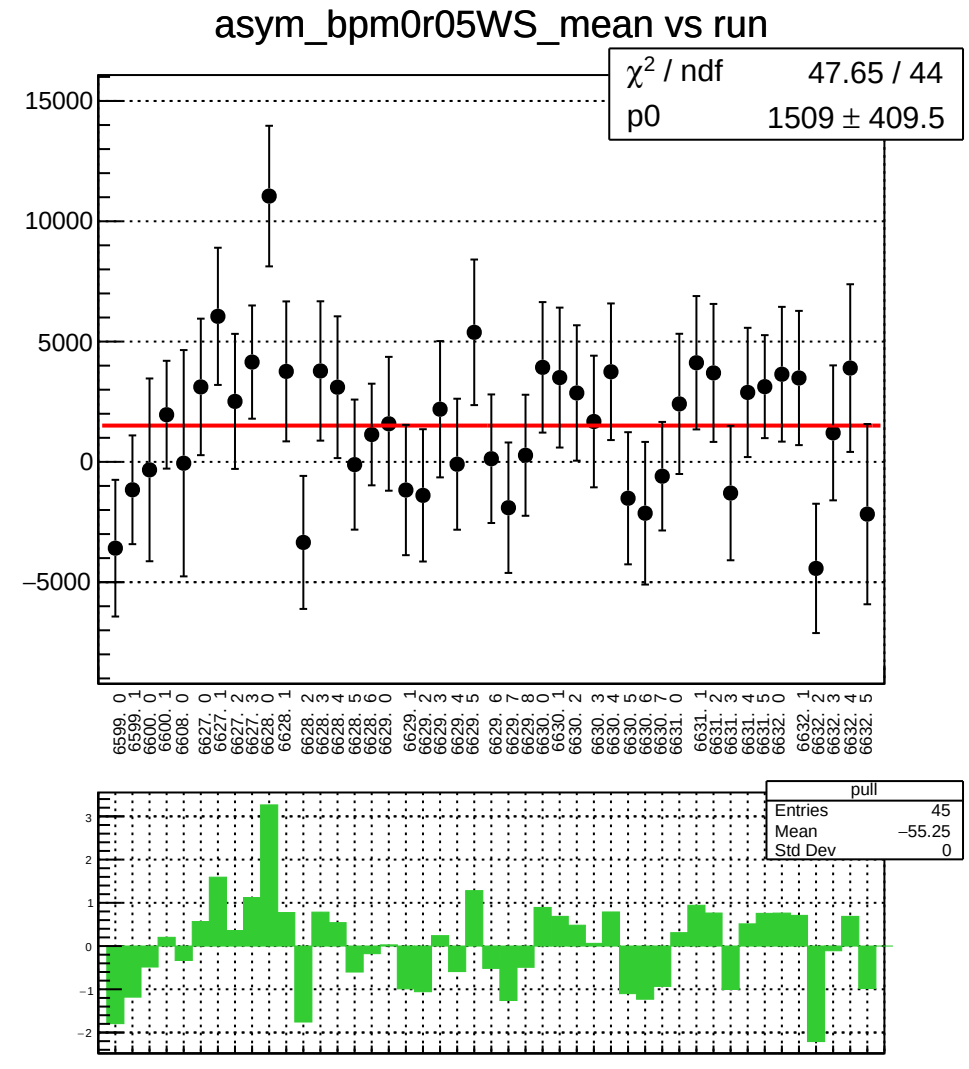
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_bpm0r05WS_mean vs run
χ² / ndf 47.65 / 44
p0 1509 ± 409.5
15000
10000
5000
0
−5000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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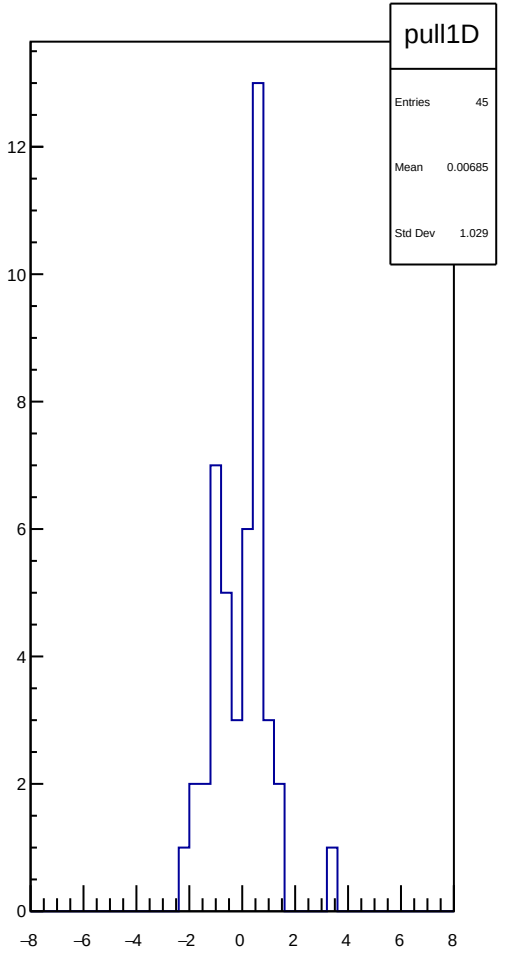
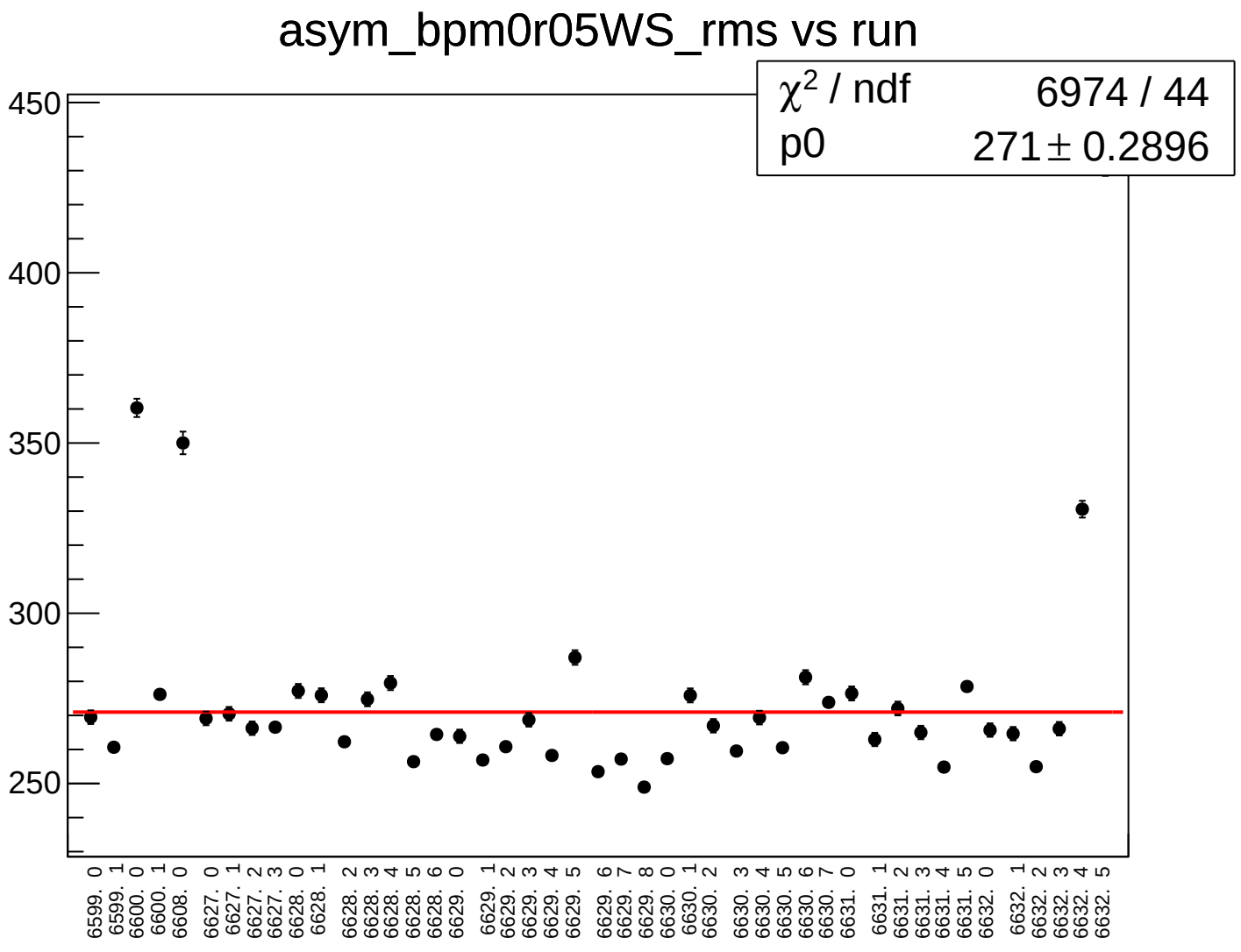
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −55.25
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.00685
Std Dev 1.029
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0r05WS_rms vs run
χ² / ndf 6974 / 44
p0 271 ± 0.2896
450
400
350
300
250
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
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6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
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6632. 0
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6632. 2
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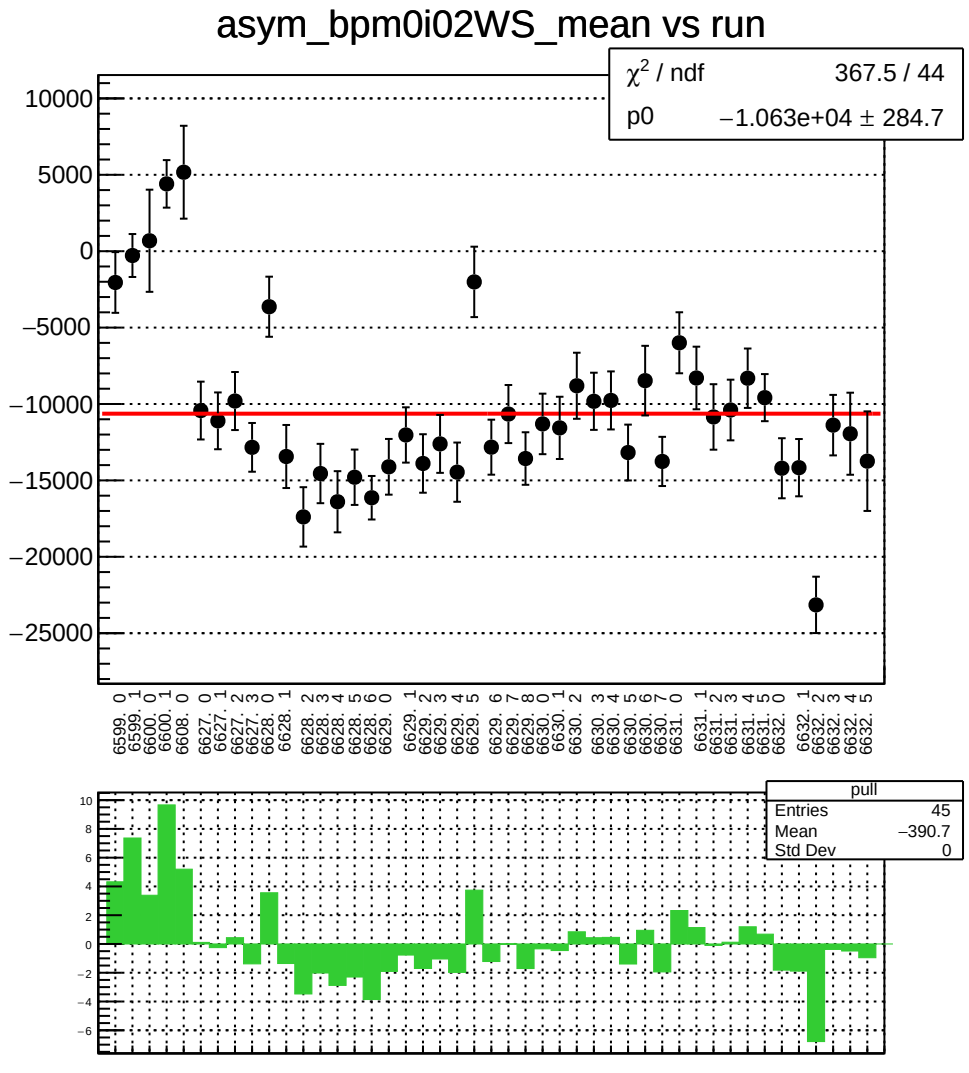
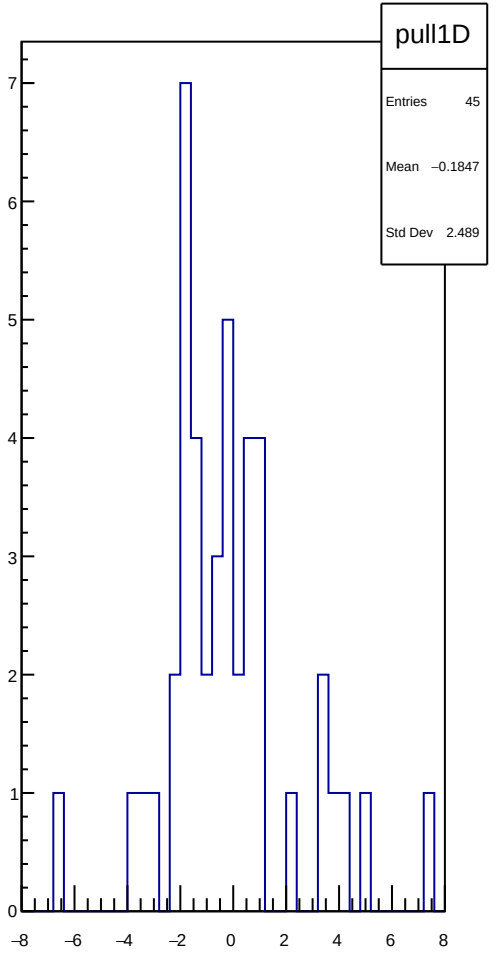
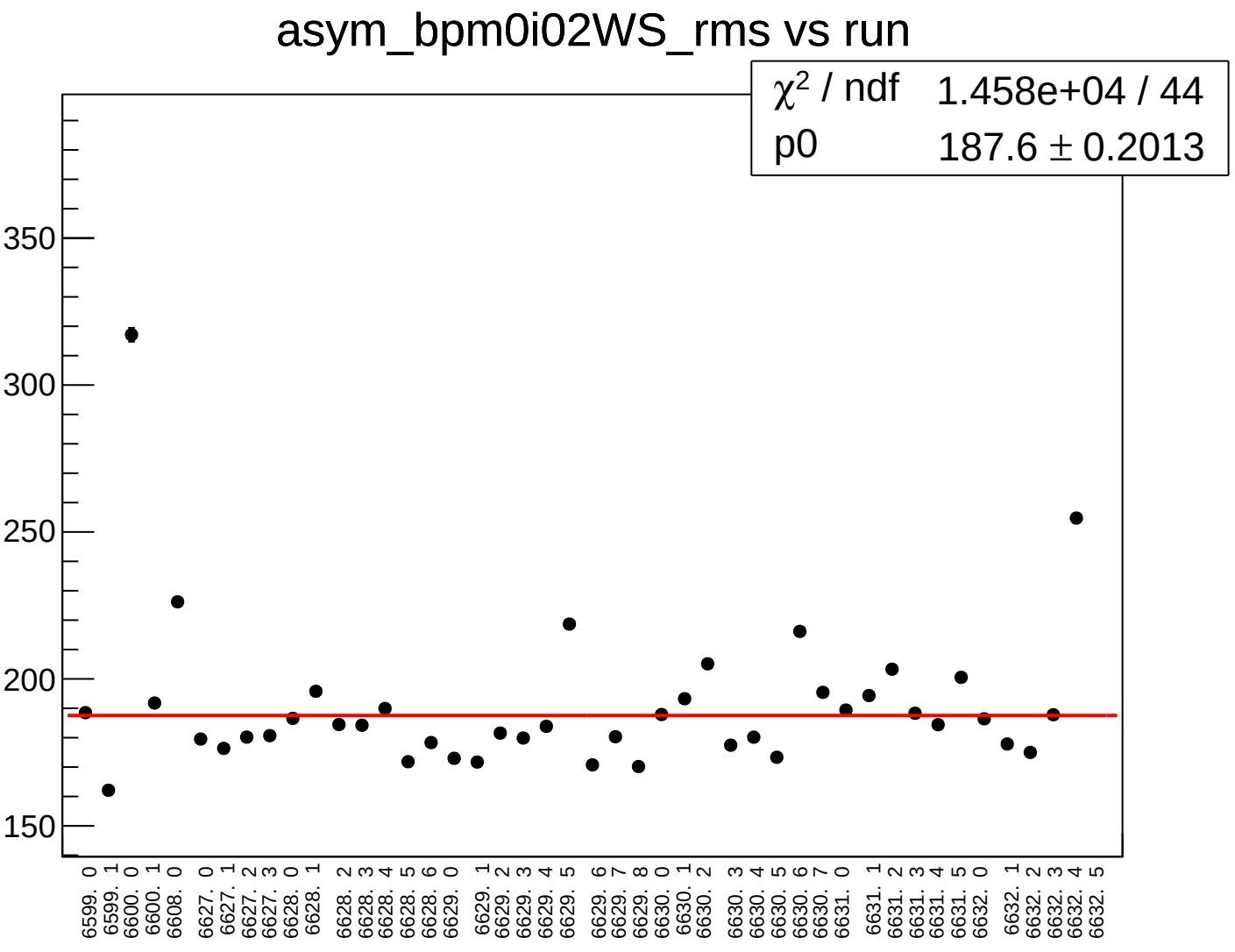
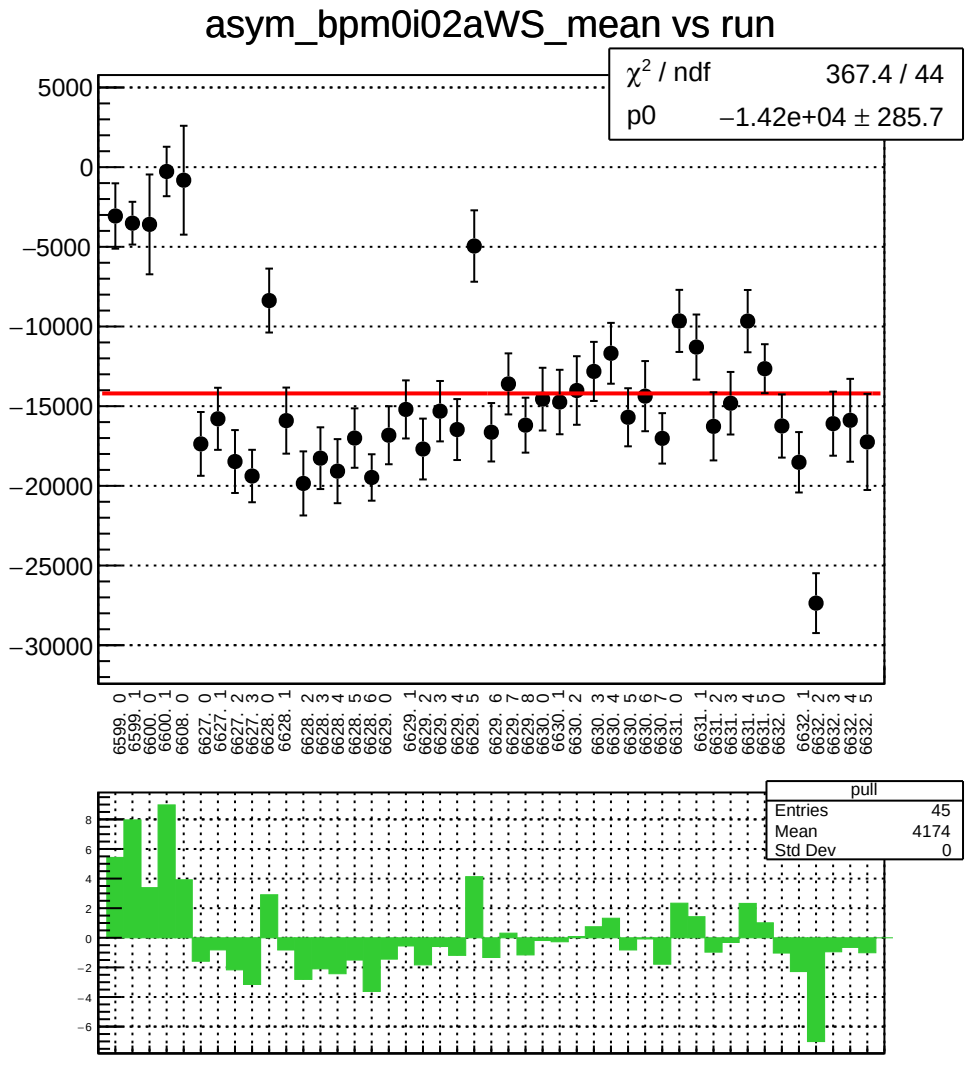
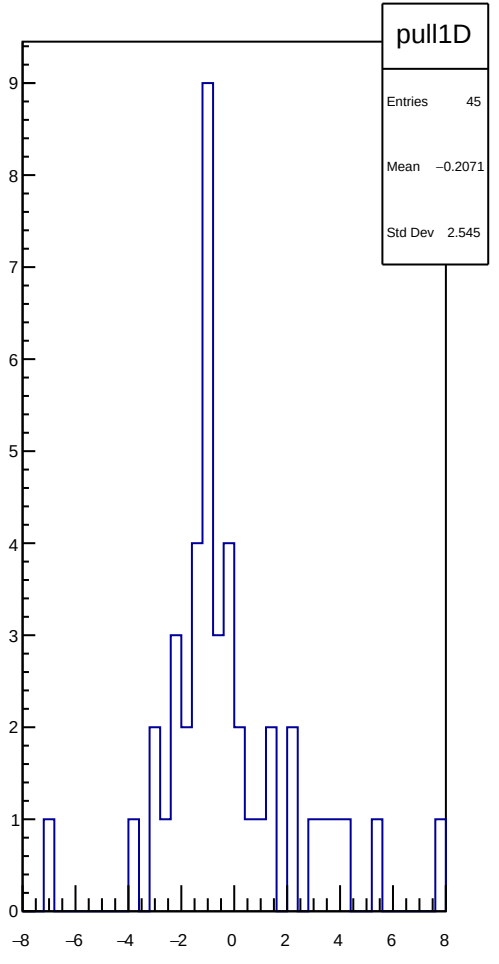
6632. 4
6632. 5

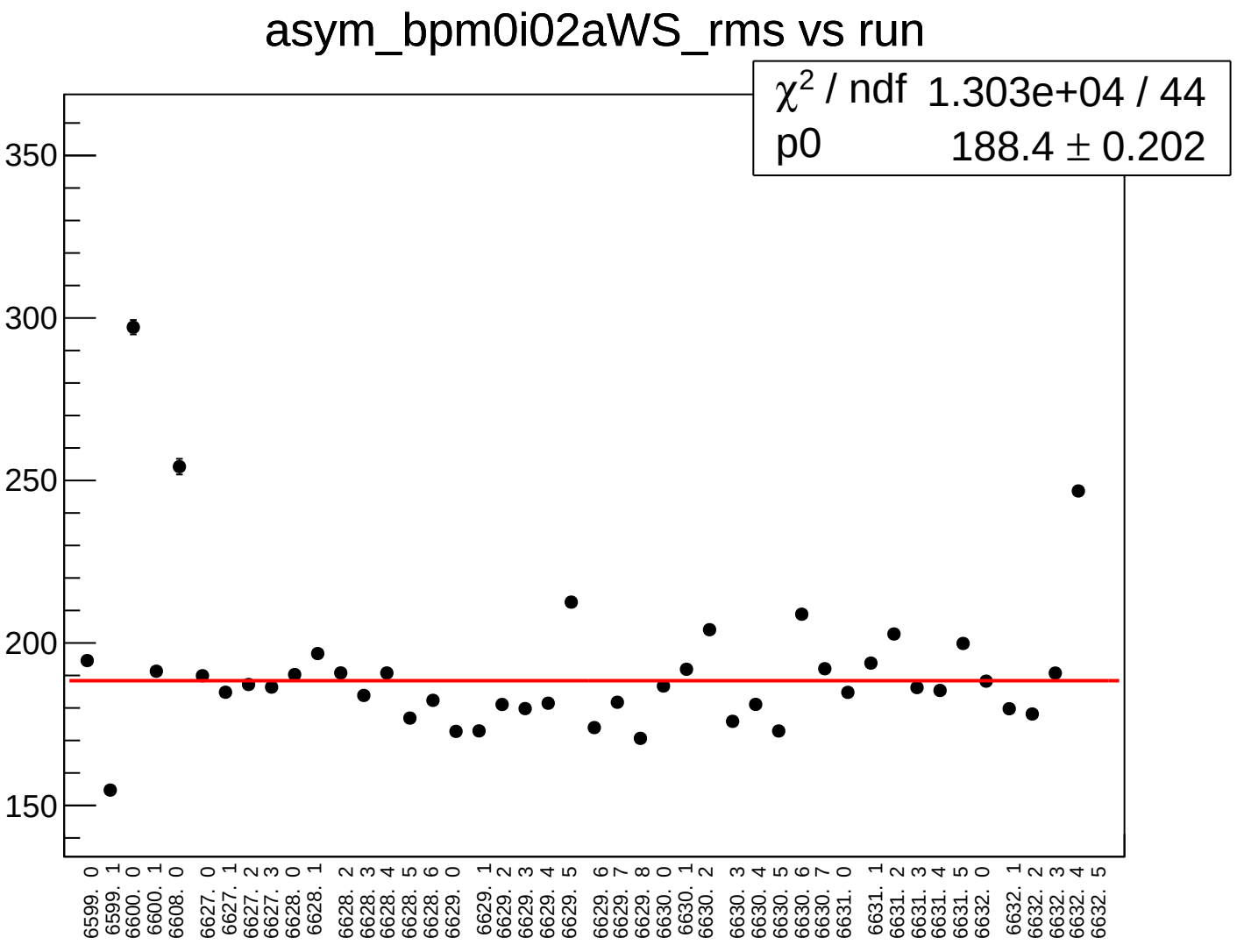

asym_bpm0i02WS_mean vs run
χ² / ndf 367.5 / 44
p0 −1.063e+04 ± 284.7
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −390.7
Std Dev 0
10
8
6
4
2
0
−2
−4
−6

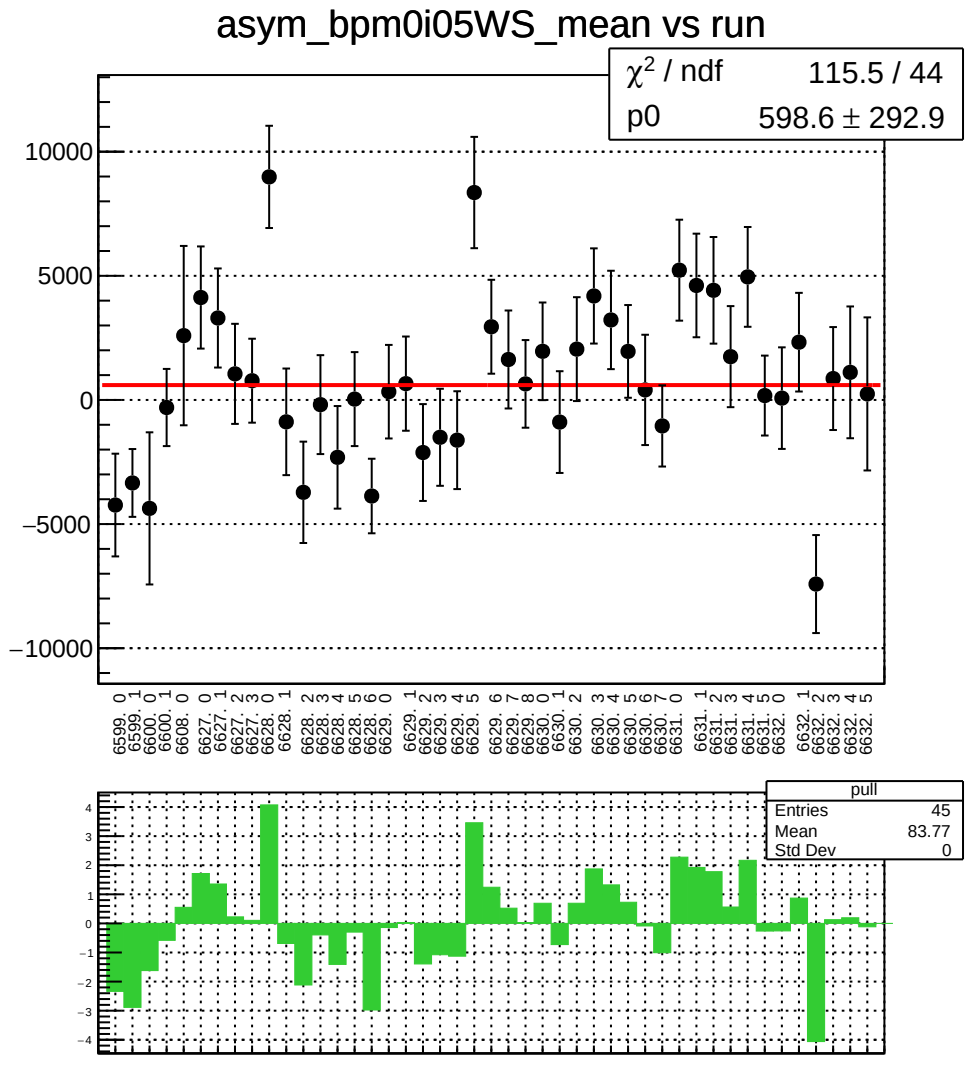

pull1D
Entries 45
Mean −0.1847
Std Dev 2.489
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

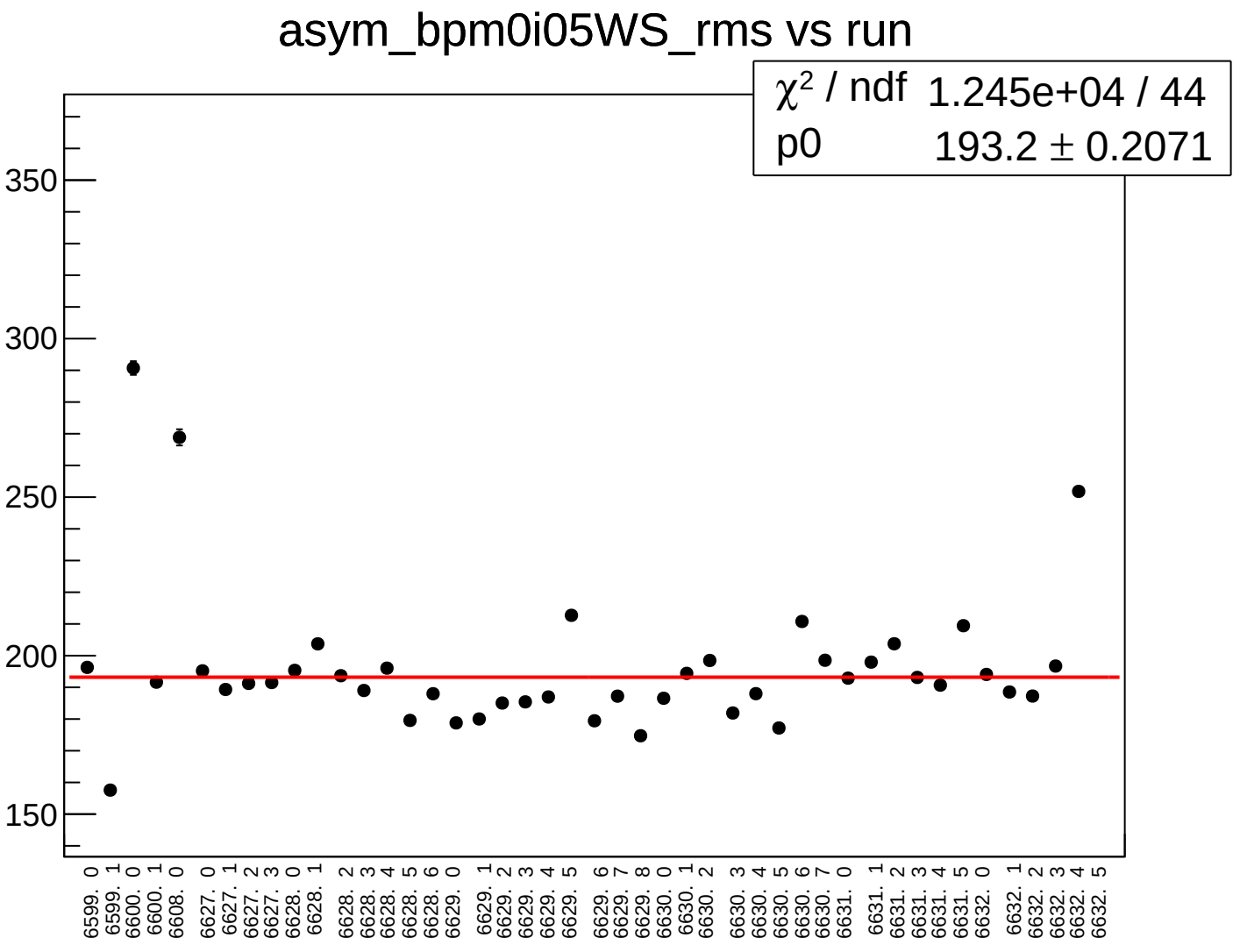

asym_bpm0i02WS_rms vs run
χ² / ndf 1.458e+04 / 44
p0 187.6 ± 0.2013
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_bpm0i02aWS_mean vs run
χ² / ndf 367.4 / 44
p0 −1.42e+04 ± 285.7
5000
0
−5000
−10000
−15000
−20000
−25000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 4174
Std Dev 0
8
6
4
2
0
−2
−4
−6


pull1D
Entries 45
Mean −0.2071
Std Dev 2.545
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0i02aWS_rms vs run
χ² / ndf 1.303e+04 / 44
p0 188.4 ± 0.202
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_bpm0i05WS_mean vs run
χ² / ndf 115.5 / 44
p0 598.6 ± 292.9
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 83.77
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 45
Mean 0.0656
Std Dev 1.601
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0i05WS_rms vs run
χ² / ndf 1.245e+04 / 44
p0 193.2 ± 0.2071
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
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6630. 2
6630. 3
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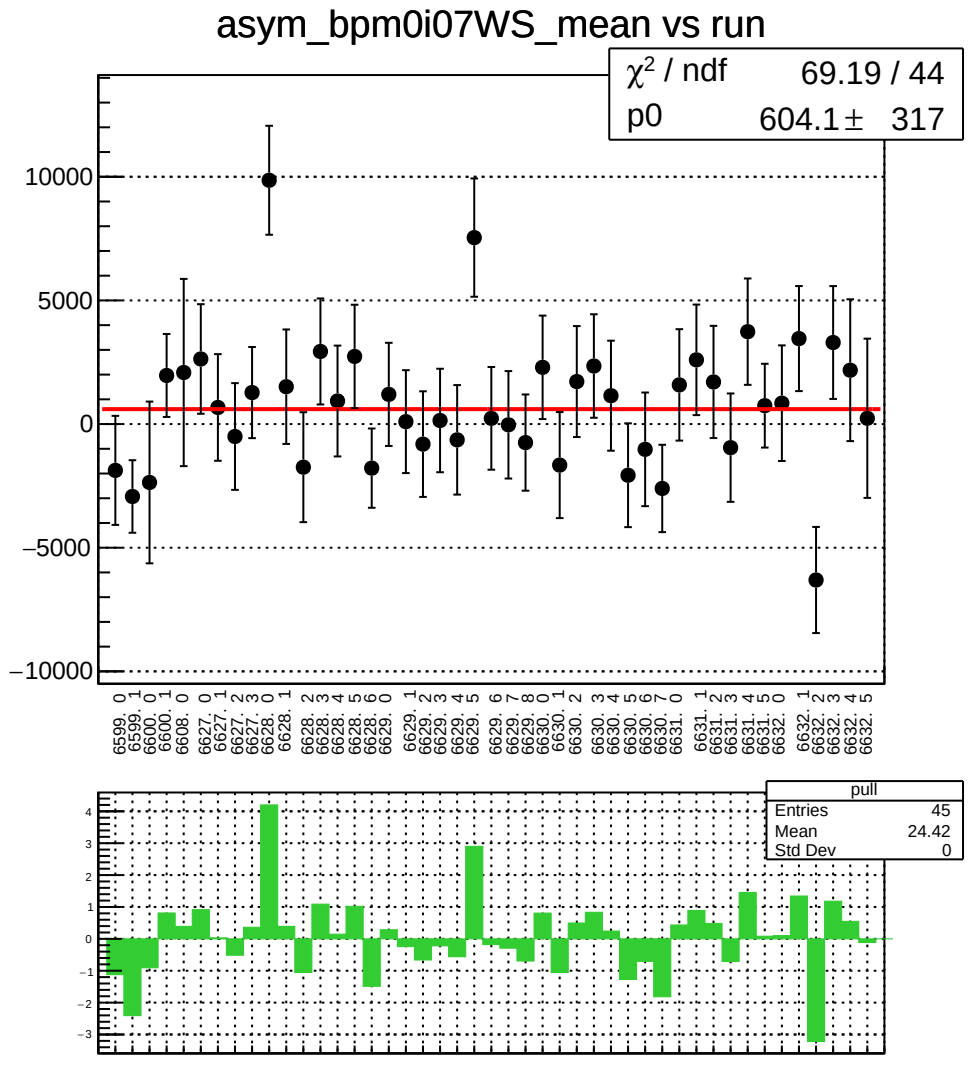
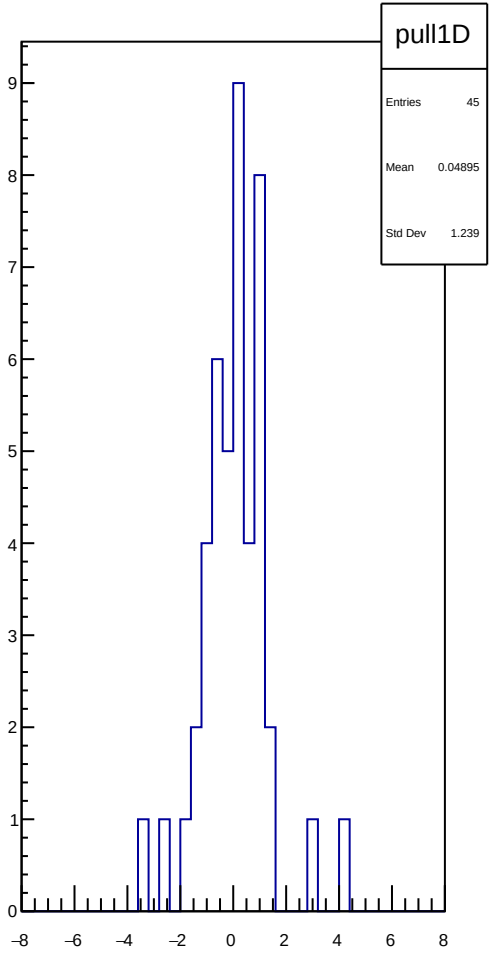
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_bpm0i07WS_mean vs run
χ² / ndf 69.19 / 44
p0 604.1 ± 317
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 24.42
Std Dev 0
4
3
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.04895
Std Dev 1.239
9
8
7
6
5
4
3
2
1
0
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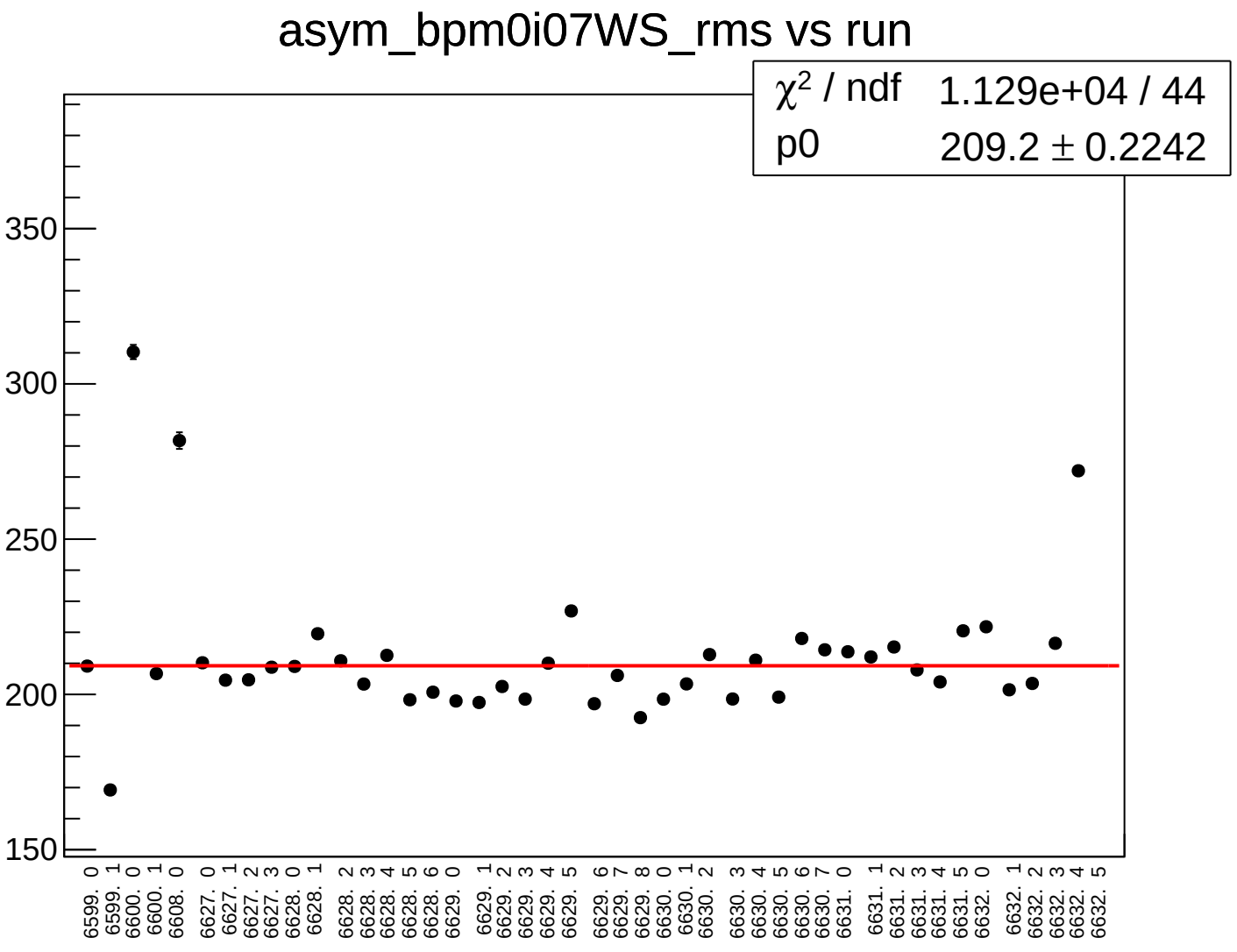
−4
−2
0
2
4
6
8


asym_bpm0i07WS_rms vs run
χ² / ndf 1.129e+04 / 44
p0 209.2 ± 0.2242
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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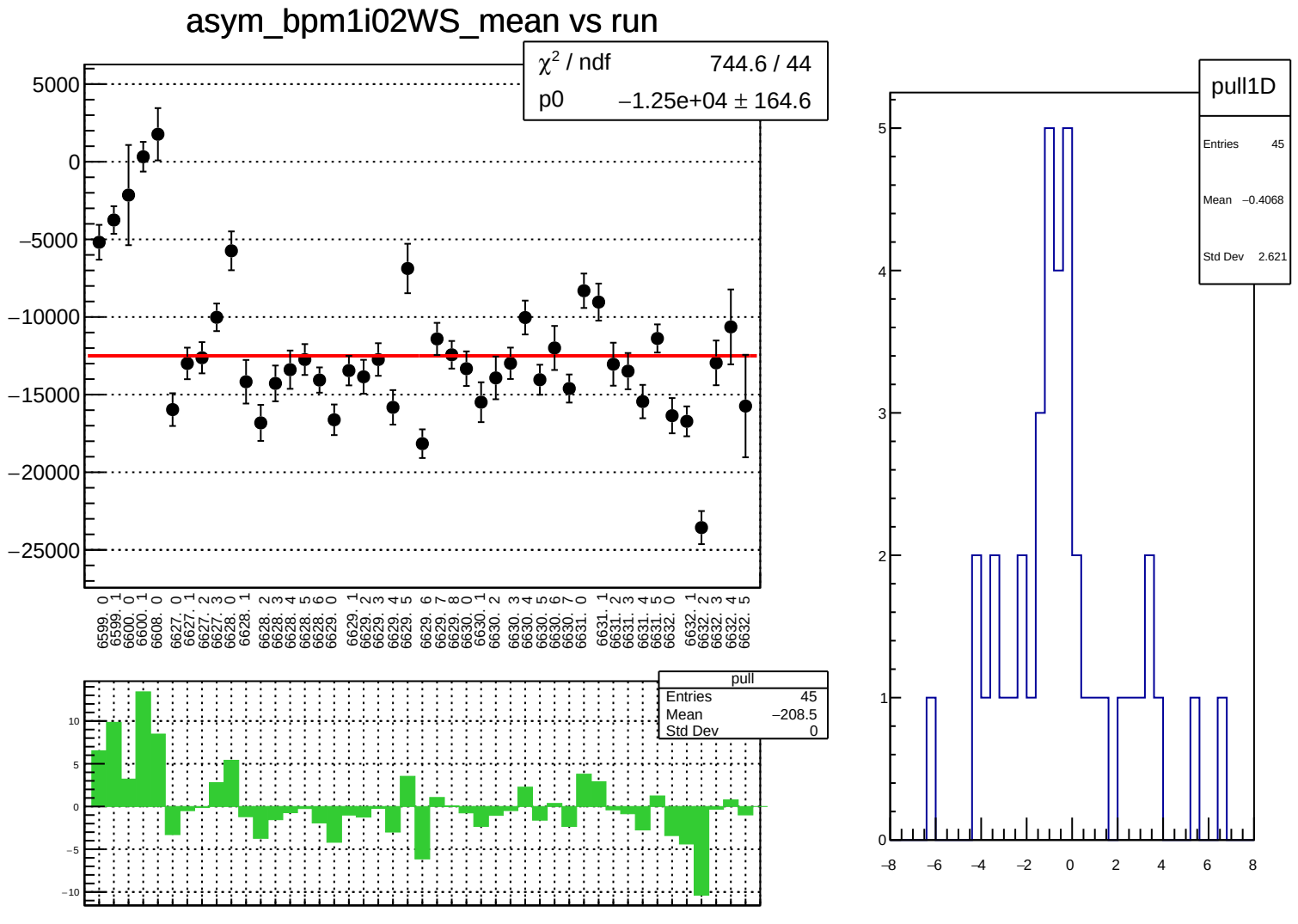
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_bpm1i02WS_mean vs run
χ² / ndf 744.6 / 44
p0 −1.25e+04 ± 164.6
5000
0
−5000
−10000
−15000
−20000
−25000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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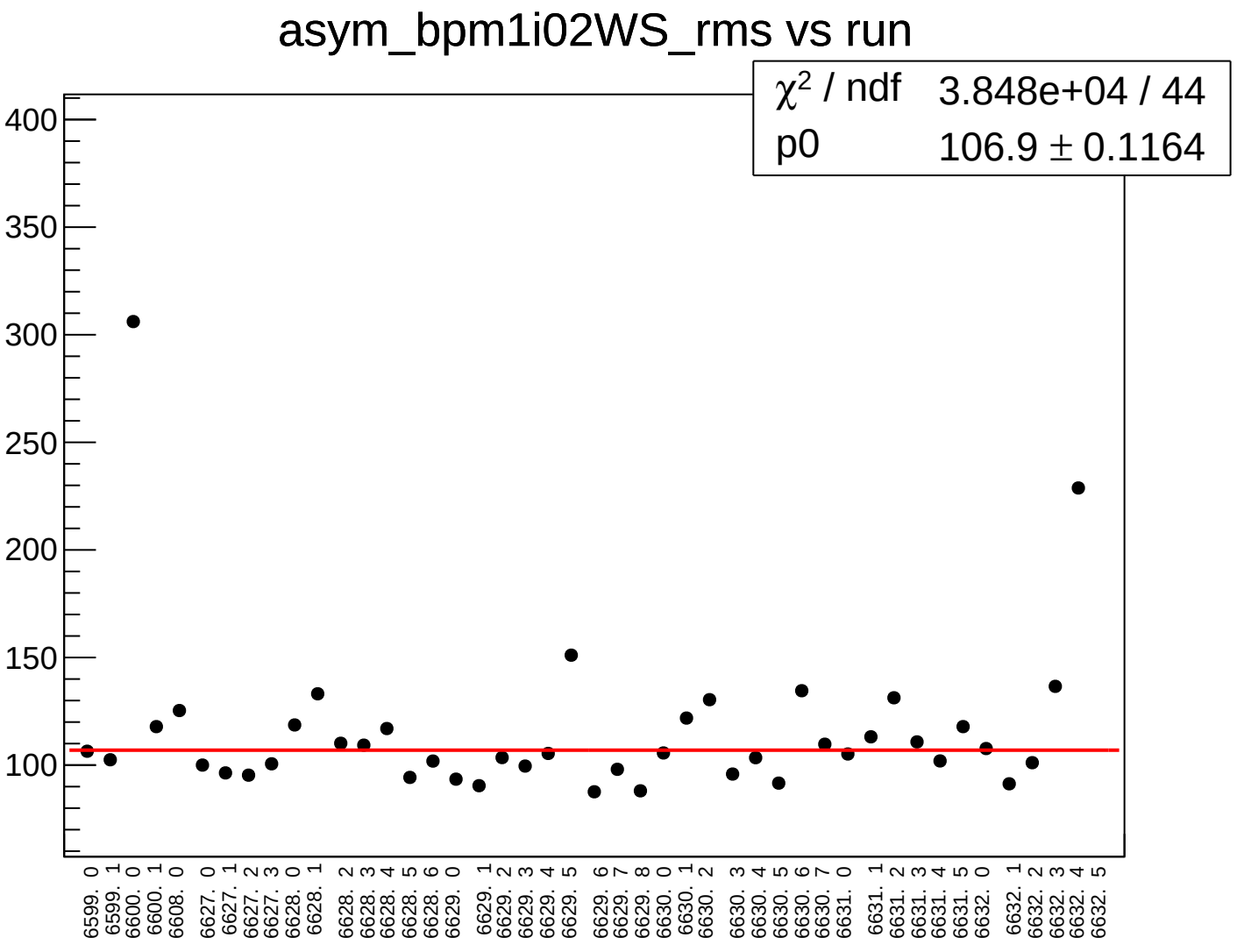
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −208.5
Std Dev 0
10
5
0
−5
−10
pull1D
Entries 45
Mean −0.4068
Std Dev 2.621
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm1i02WS_rms vs run
χ² / ndf 3.848e+04 / 44
p0 106.9 ± 0.1164
400
350
300
250
200
150
100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6628. 4
6628. 5
6628. 6
6629. 0
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 5
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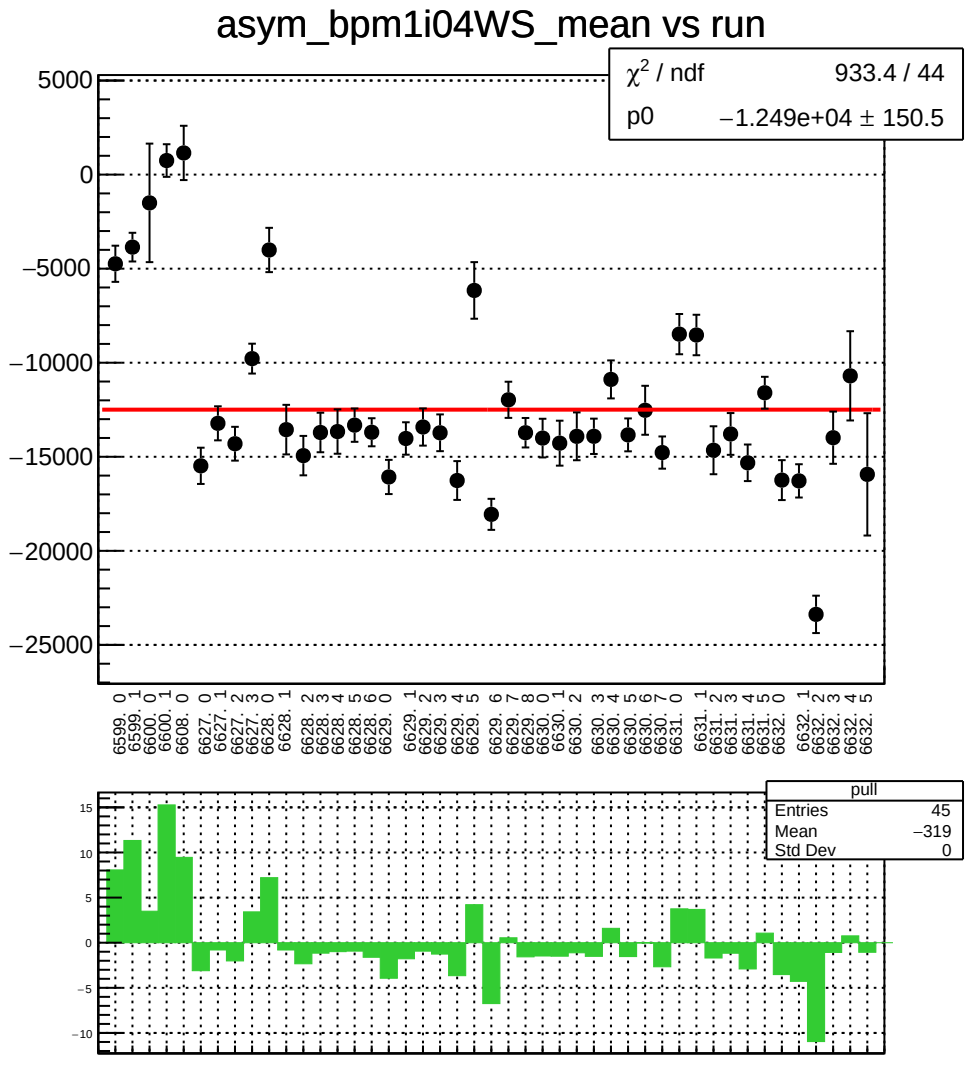
6632. 2
6632. 3
6632. 4
6632. 5


asym_bpm1i04WS_mean vs run
χ² / ndf 933.4 / 44
p0 −1.249e+04 ± 150.5
5000
0
−5000
−10000
−15000
−20000
−25000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
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6630. 2
6630. 3
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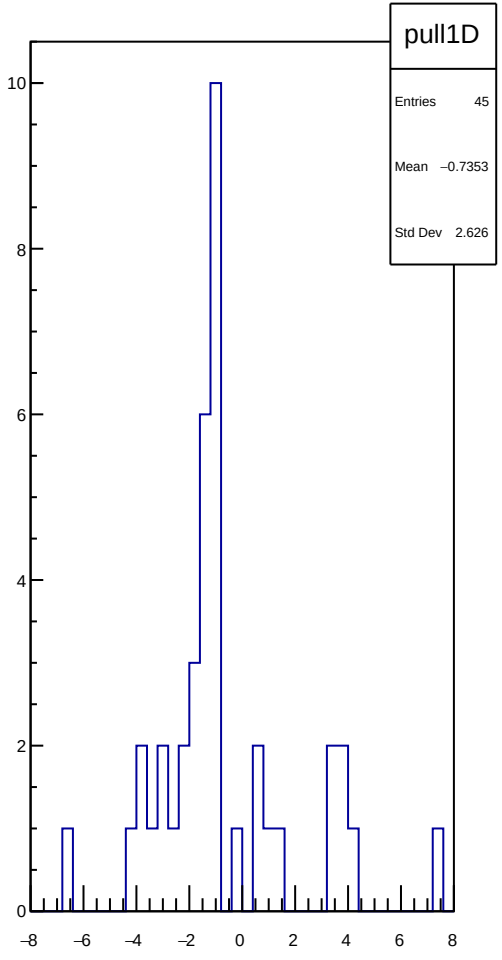
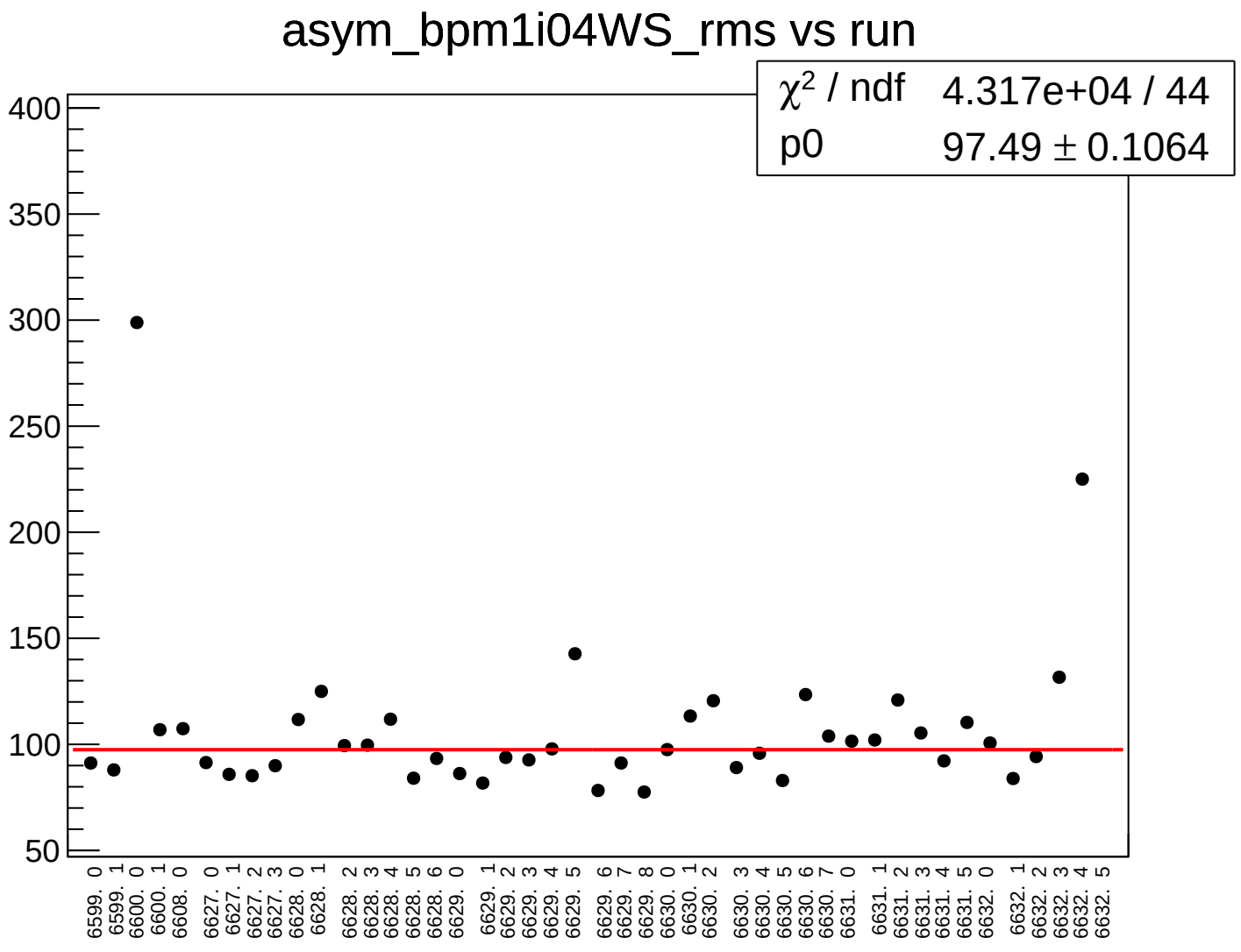
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −319
Std Dev 0
15
10
5
0
−5
−10


pull1D
Entries 45
Mean −0.7353
Std Dev 2.626
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm1i04WS_rms vs run
χ² / ndf 4.317e+04 / 44
p0 97.49 ± 0.1064
400
350
300
250
200
150
100
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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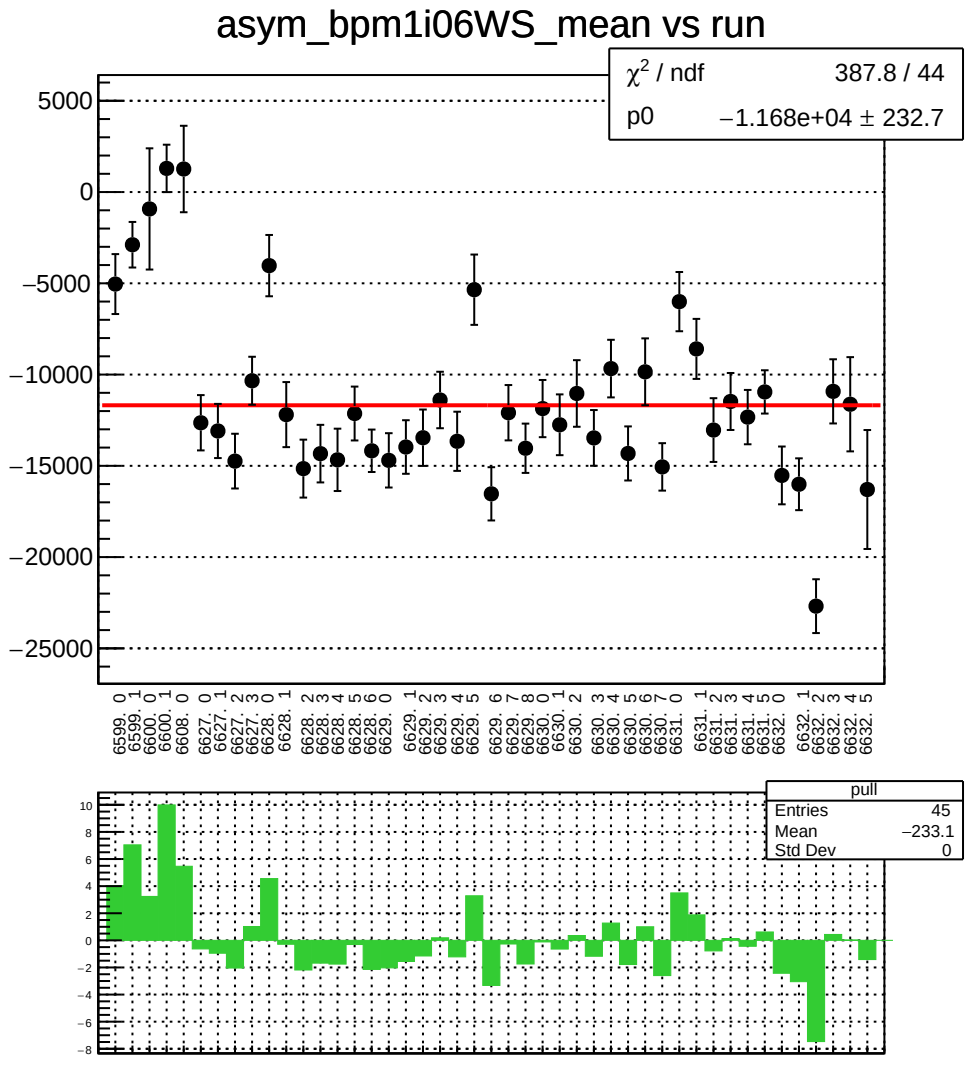
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_bpm1i06WS_mean vs run
χ² / ndf 387.8 / 44
p0 −1.168e+04 ± 232.7
5000
0
−5000
−10000
−15000
−20000
−25000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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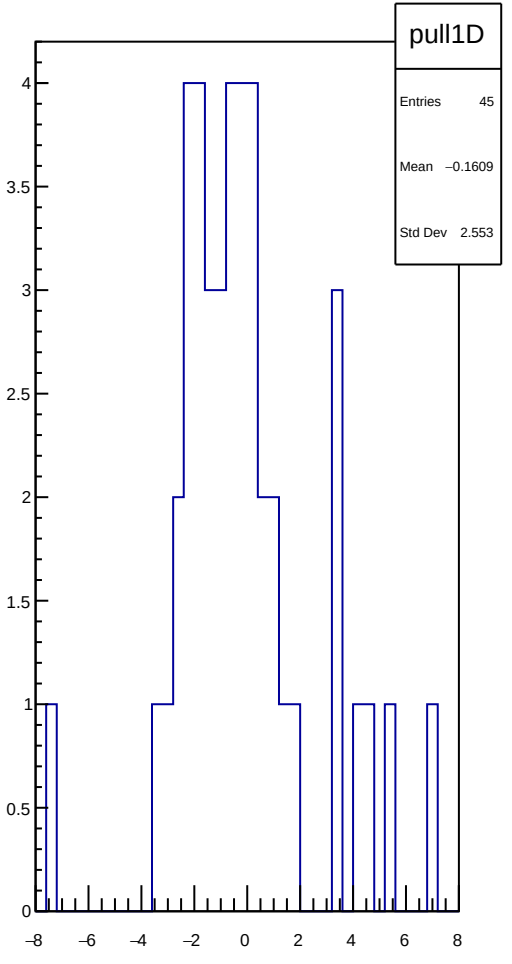
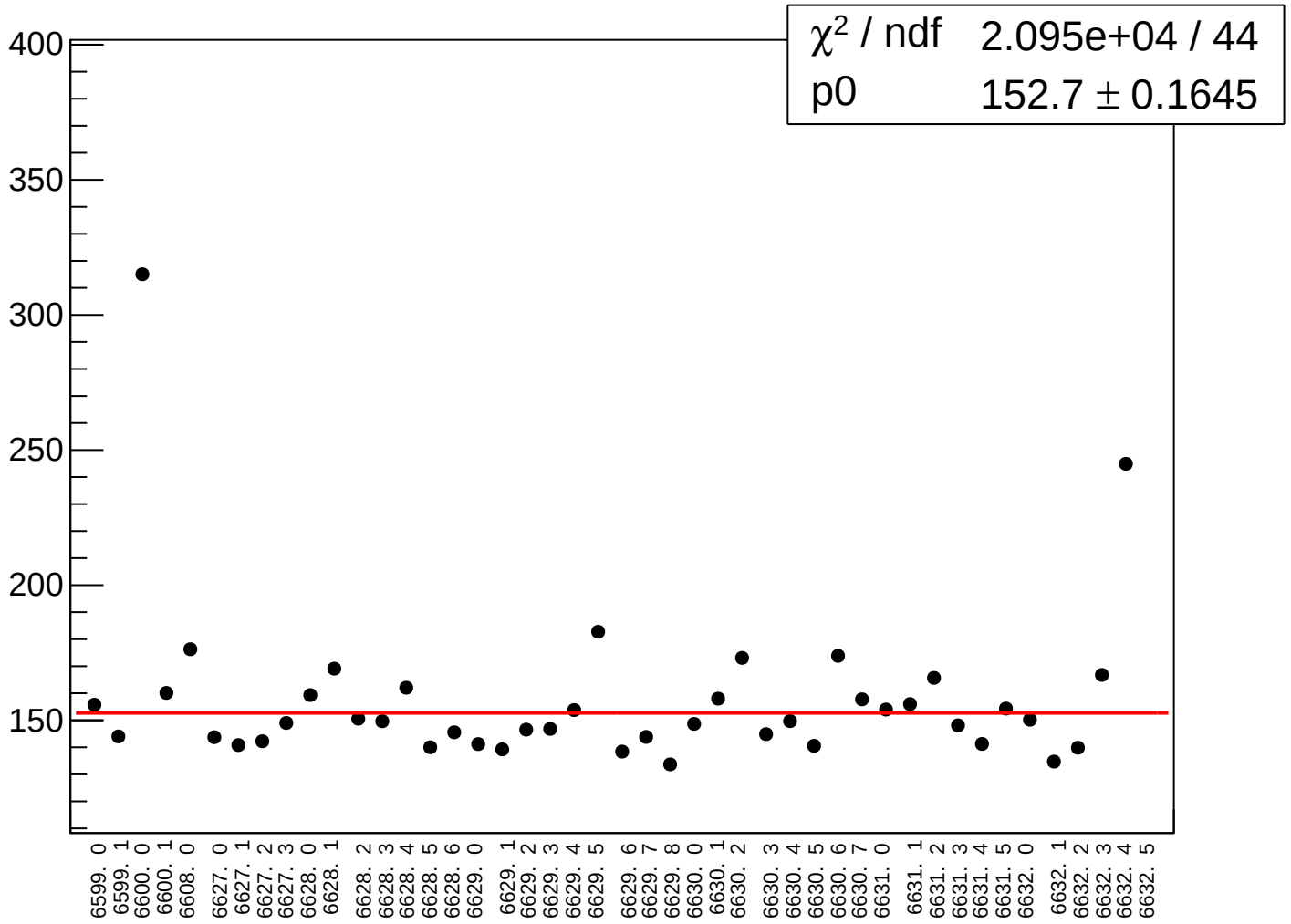
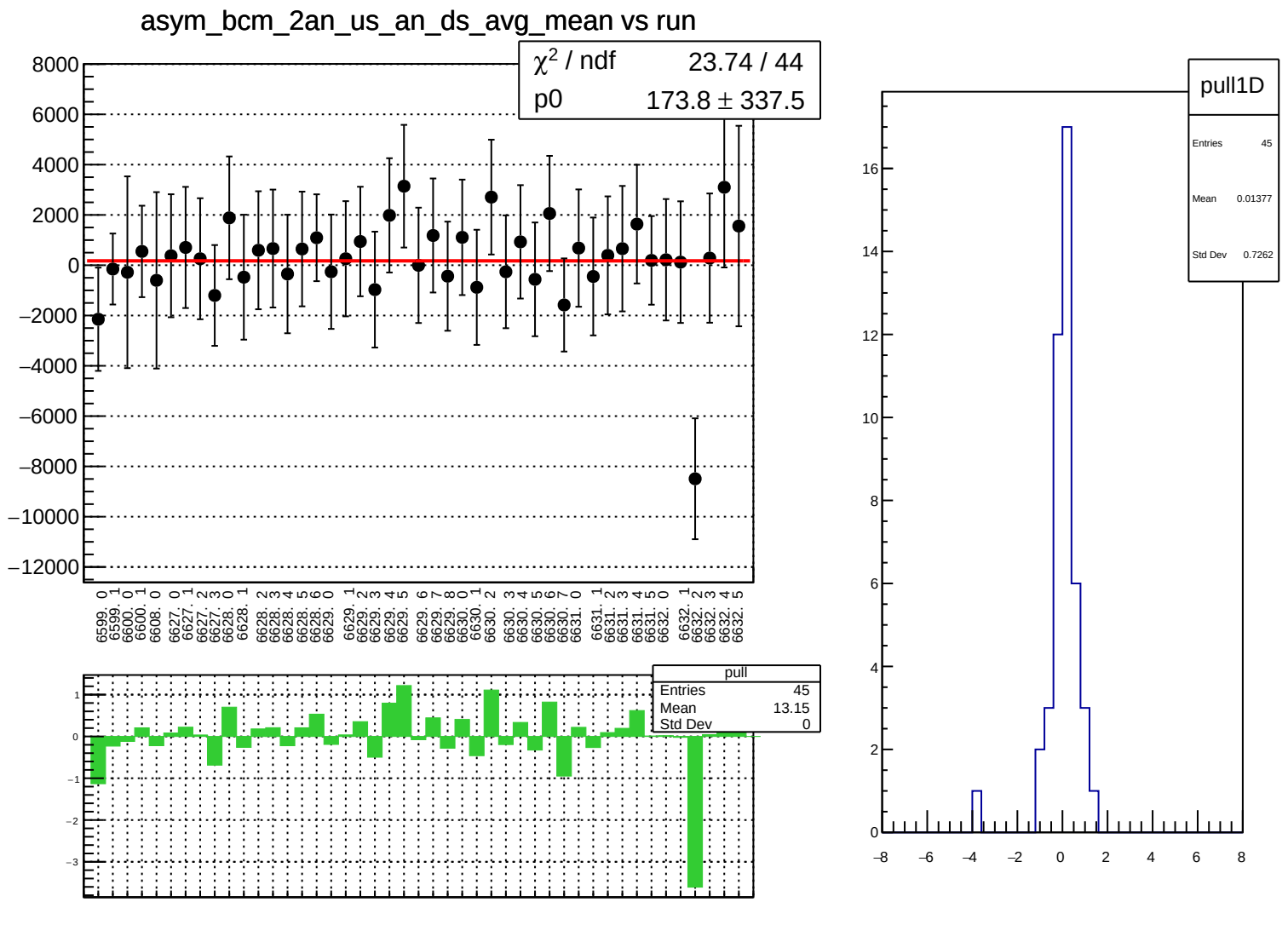
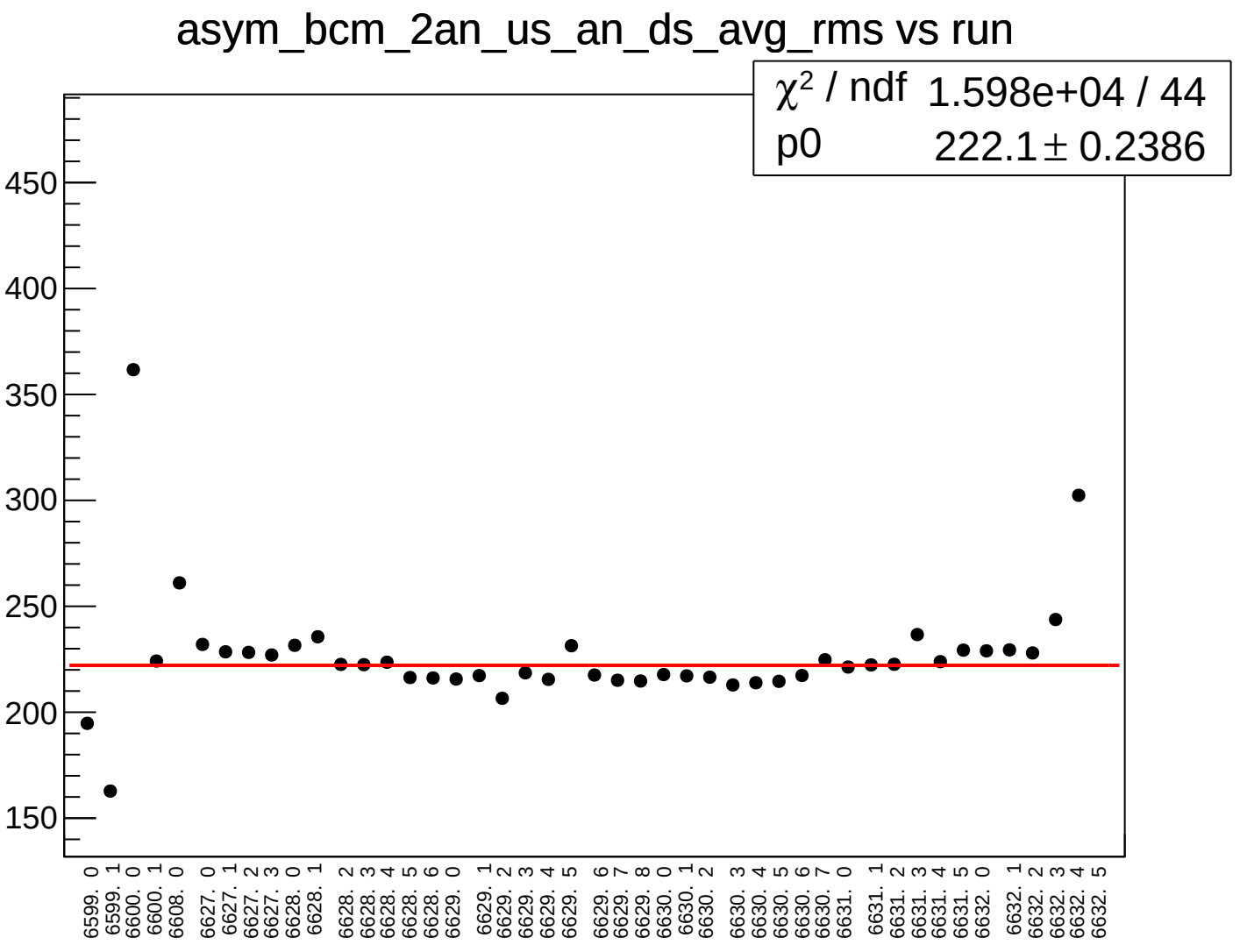
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −233.1
Std Dev 0
10
8
6
4
2
0
−2
−4
−6
−8


pull1D
Entries 45
Mean −0.1609
Std Dev 2.553
4
3.5
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 2.095e+04 / 44
p0 152.7 ± 0.1645
400
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 23.74 / 44
p0 173.8 ± 337.5
pull
Entries 45
Mean 13.15
Std Dev 0
pull1D
Entries 45
Mean 0.01377
Std Dev 0.7262


asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 1.598e+04 / 44
p0 222.1 ± 0.2386
450
400
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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6632. 2
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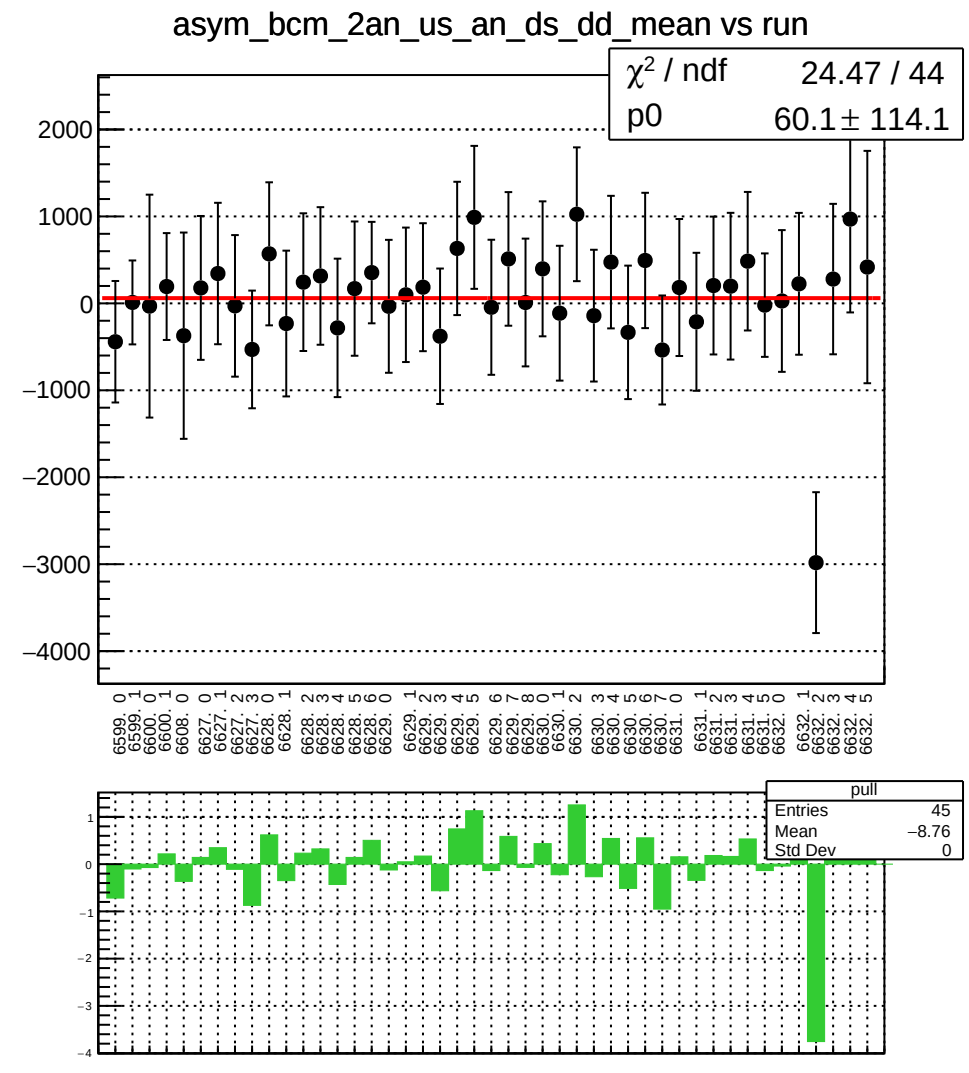
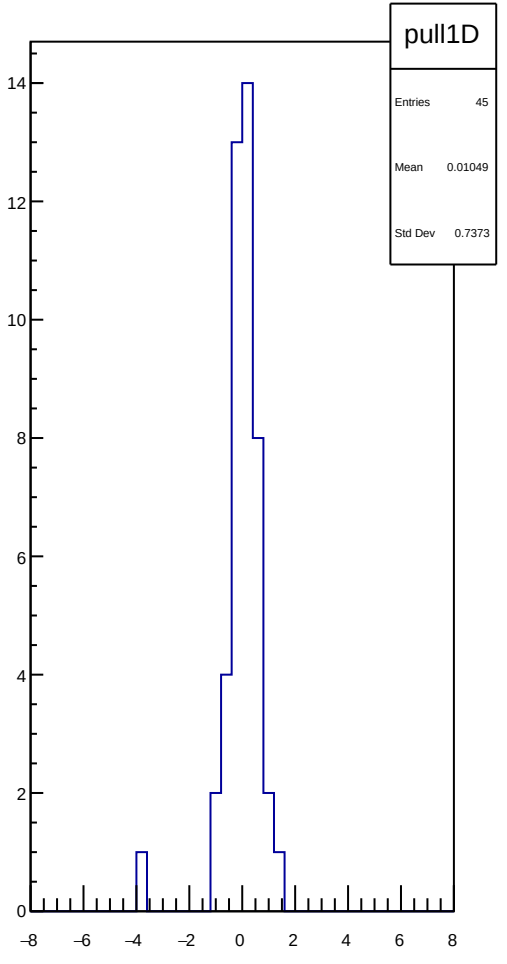
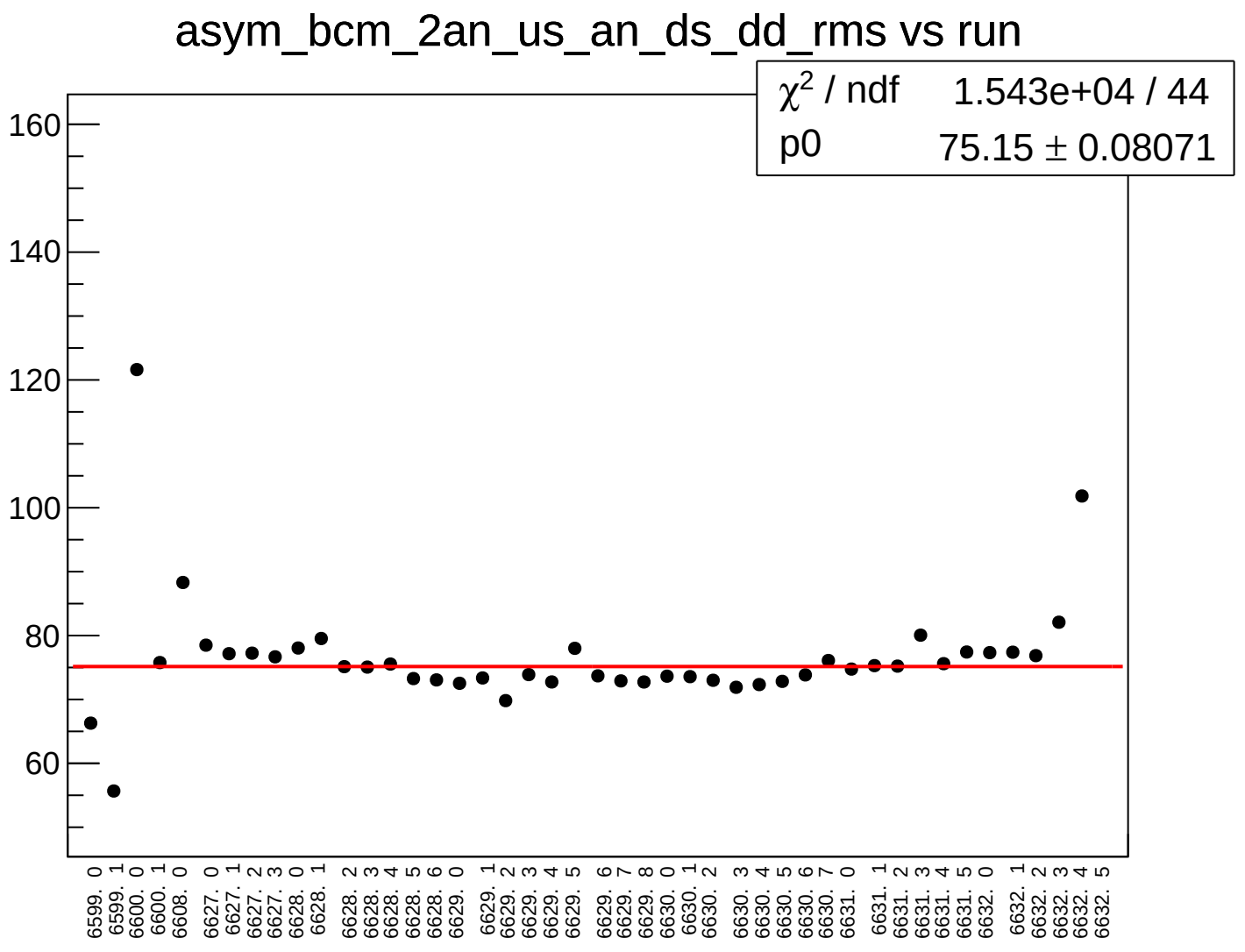
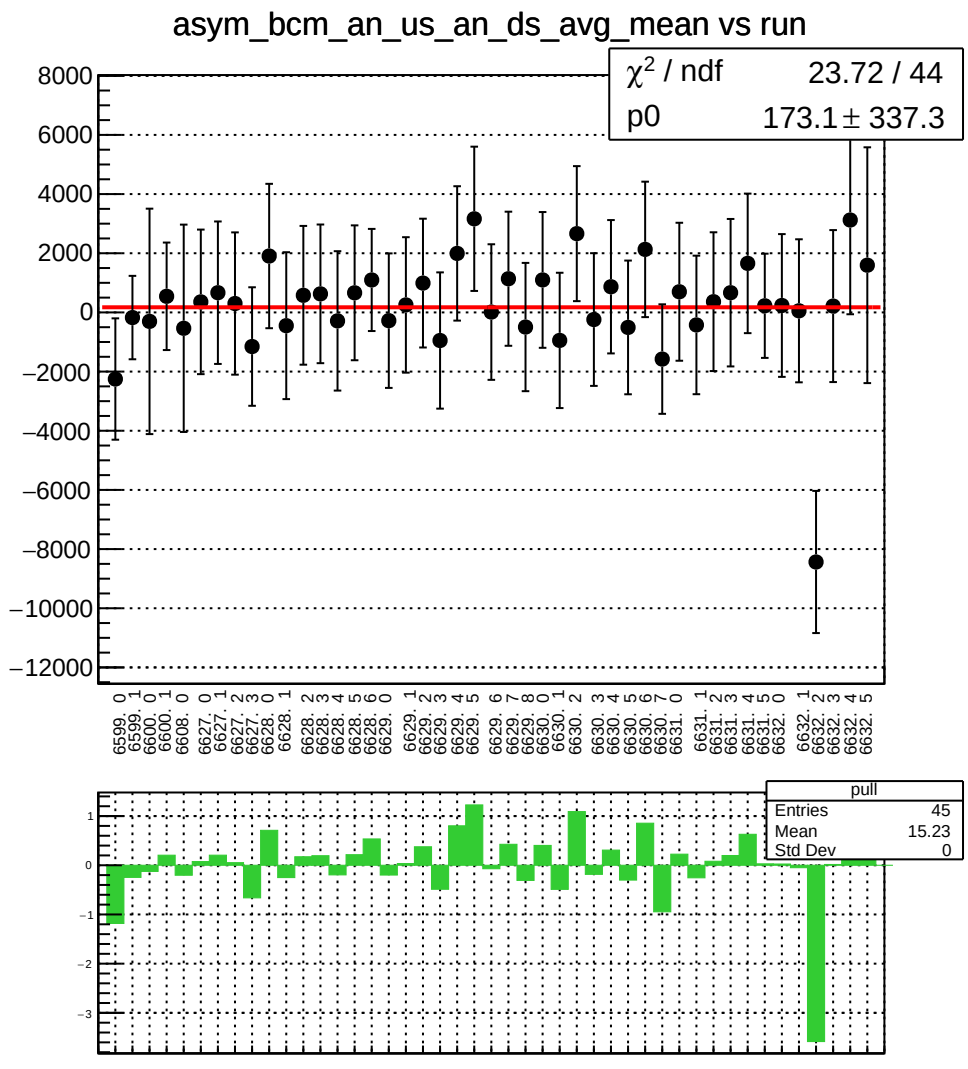
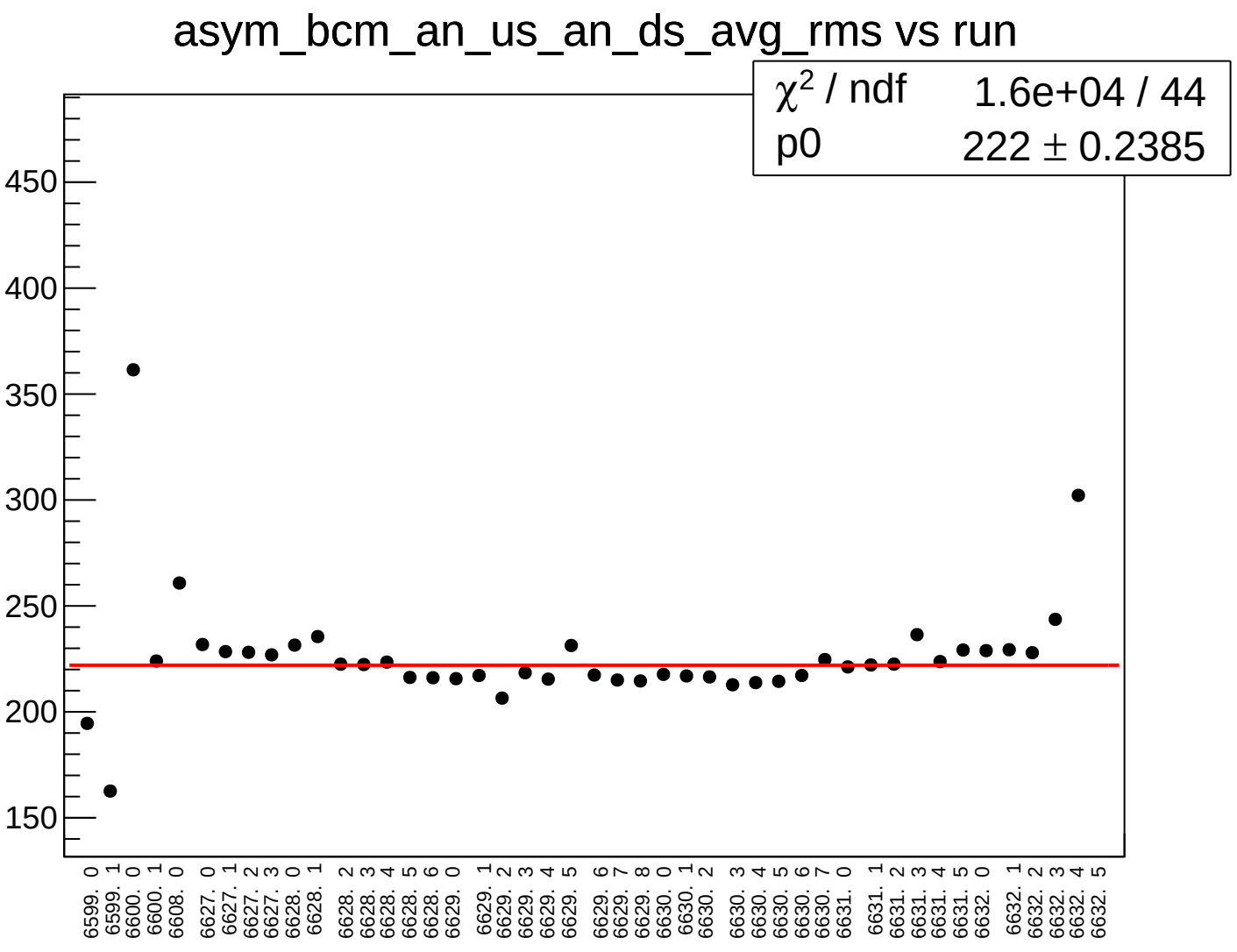
6632. 4
6632. 5


asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 24.47 / 44
p0 60.1 ± 114.1
2000
1000
0
−1000
−2000
−3000
−4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −8.76
Std Dev 0
1
0
−1
−2
−3
−4


pull1D
Entries 45
Mean 0.01049
Std Dev 0.7373
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 1.543e+04 / 44
p0 75.15 ± 0.08071
160
140
120
100
80
60
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 23.72 / 44
p0 173.1 ± 337.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 15.23
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.01417
Std Dev 0.726
16
14
12
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 1.6e+04 / 44
p0 222 ± 0.2385
450
400
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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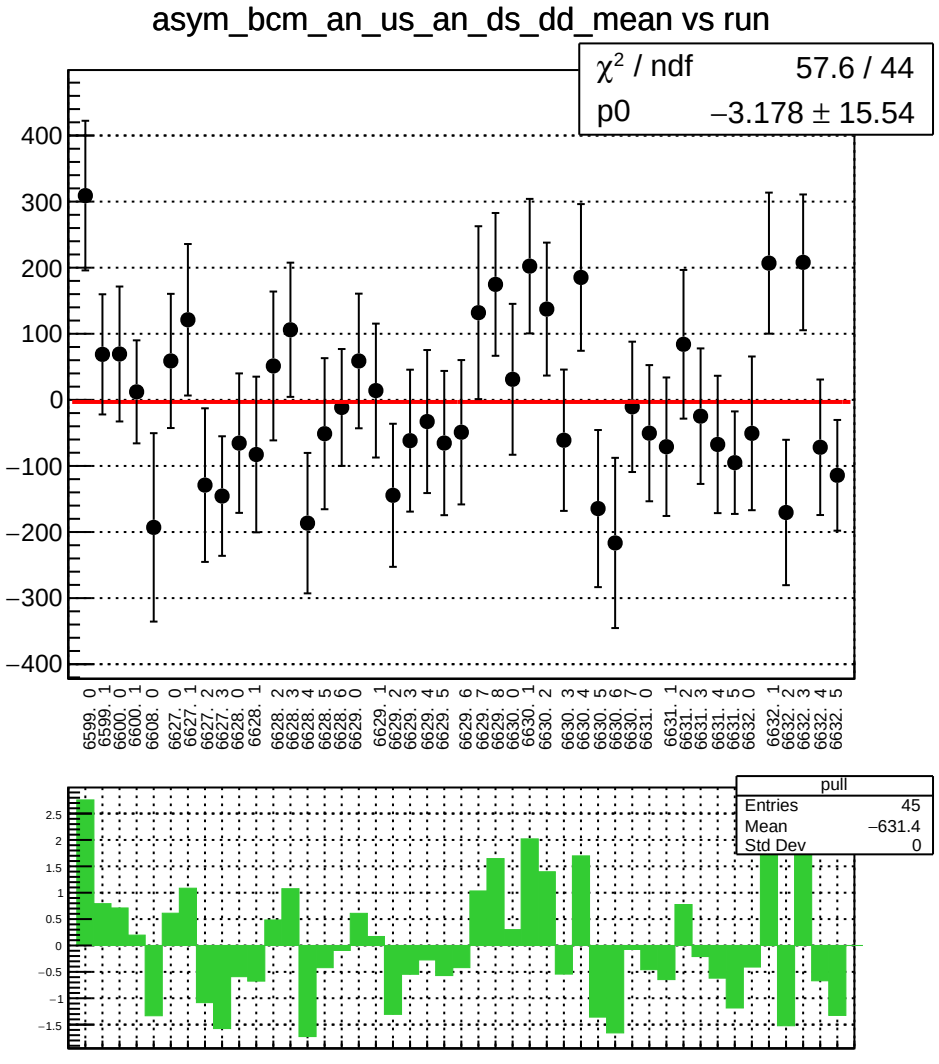
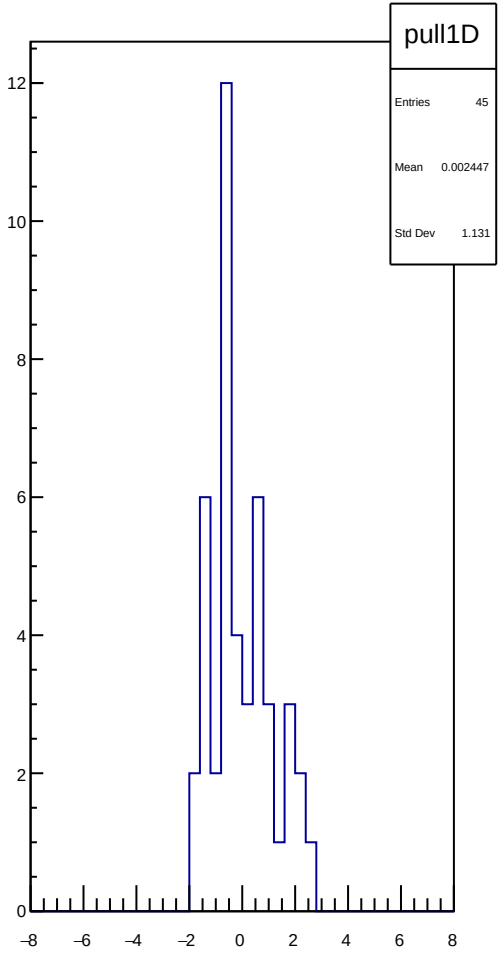
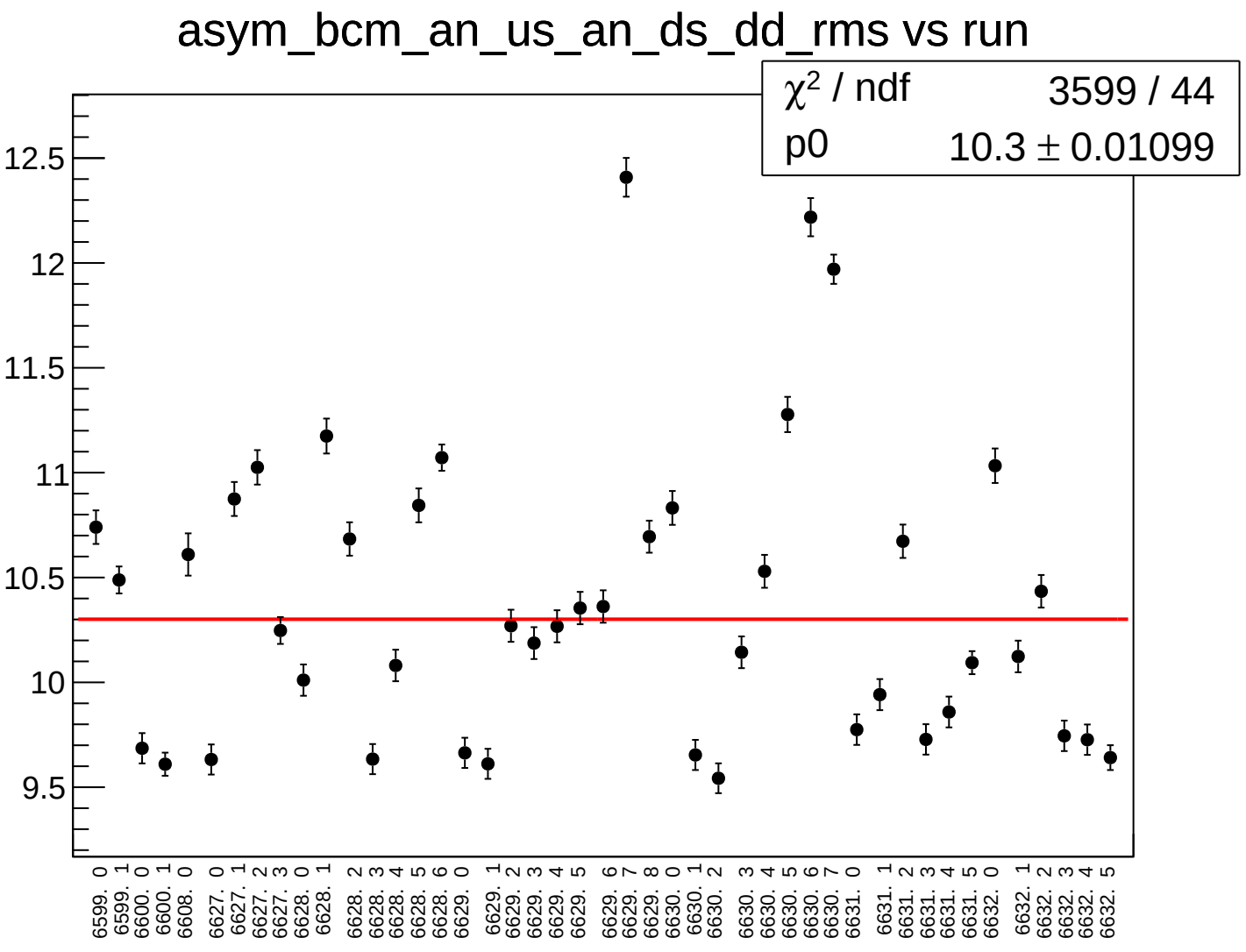
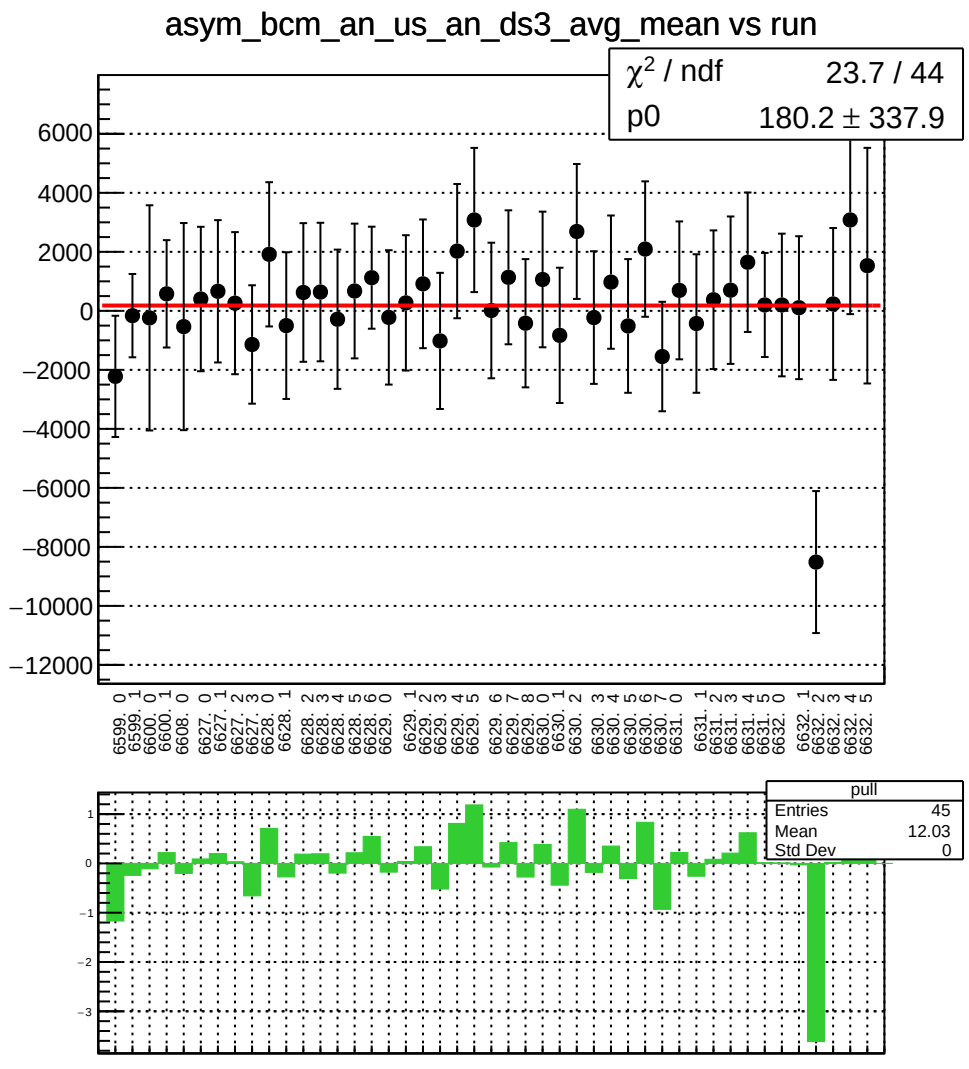
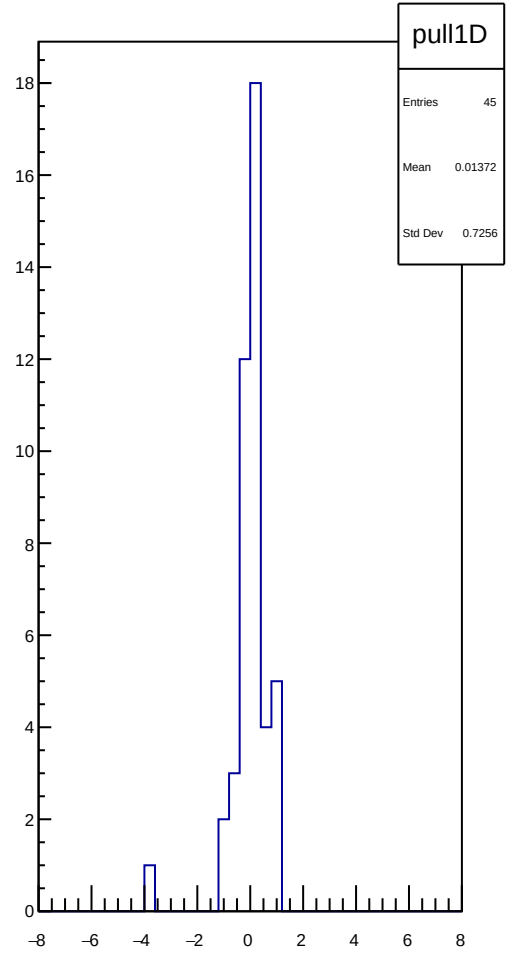
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

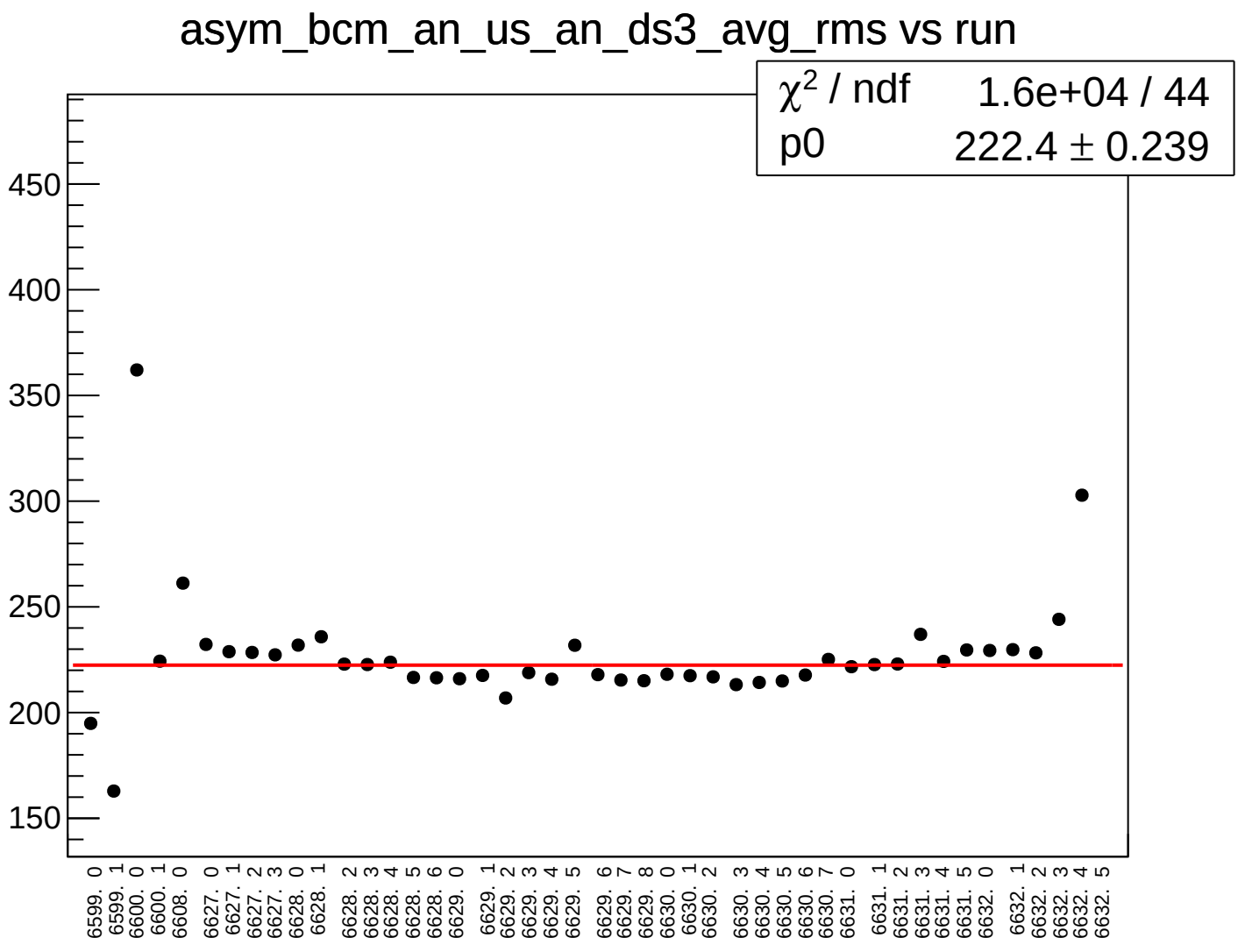

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 57.6 / 44
p0 −3.178 ± 15.54
400
300
200
100
0
−100
−200
−300
−400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −631.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.002447
Std Dev 1.131
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 3599 / 44
p0 10.3 ± 0.01099
12.5
12
11.5
11
10.5
10
9.5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 23.7 / 44
p0 180.2 ± 337.9
pull
Entries 45
Mean 12.03
Std Dev 0


pull1D
Entries 45
Mean 0.01372
Std Dev 0.7256


asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 1.6e+04 / 44
p0 222.4 ± 0.239
450
400
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
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6630. 1
6630. 2
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6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
6631. 5
6632. 0
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6632. 2
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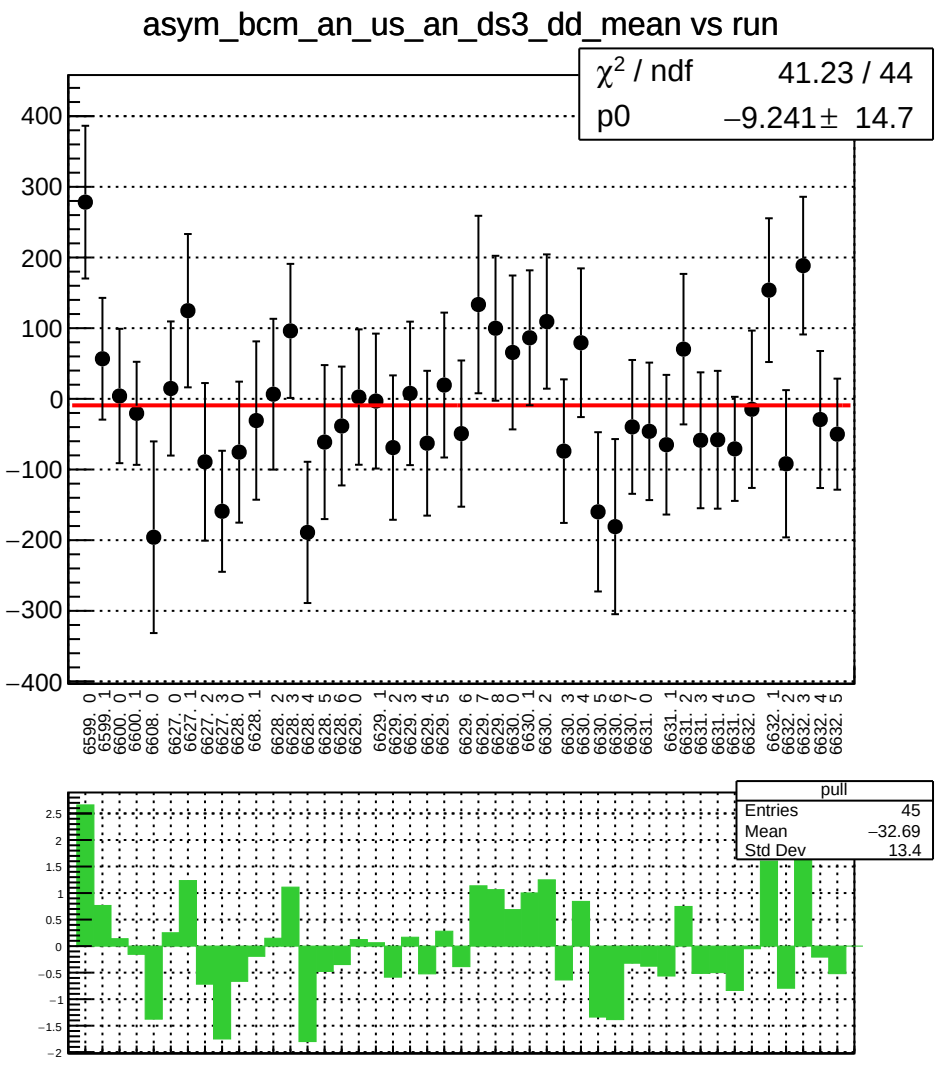
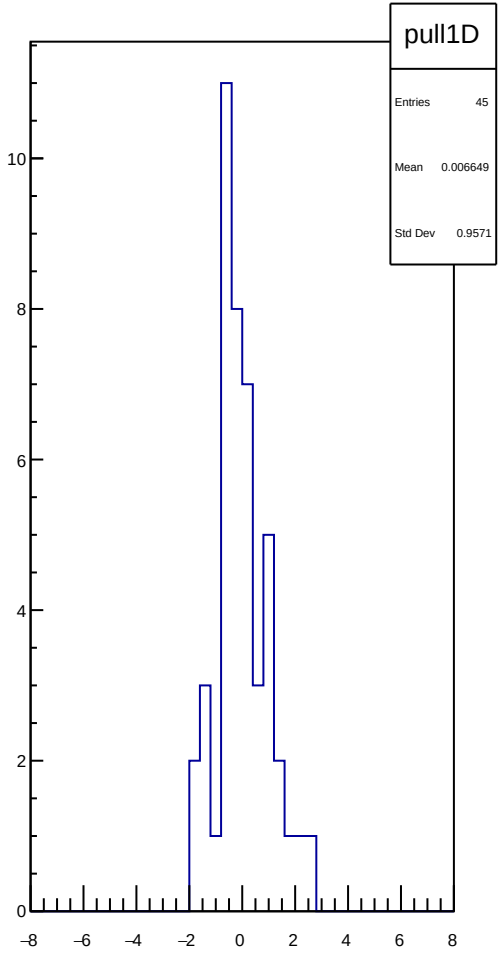
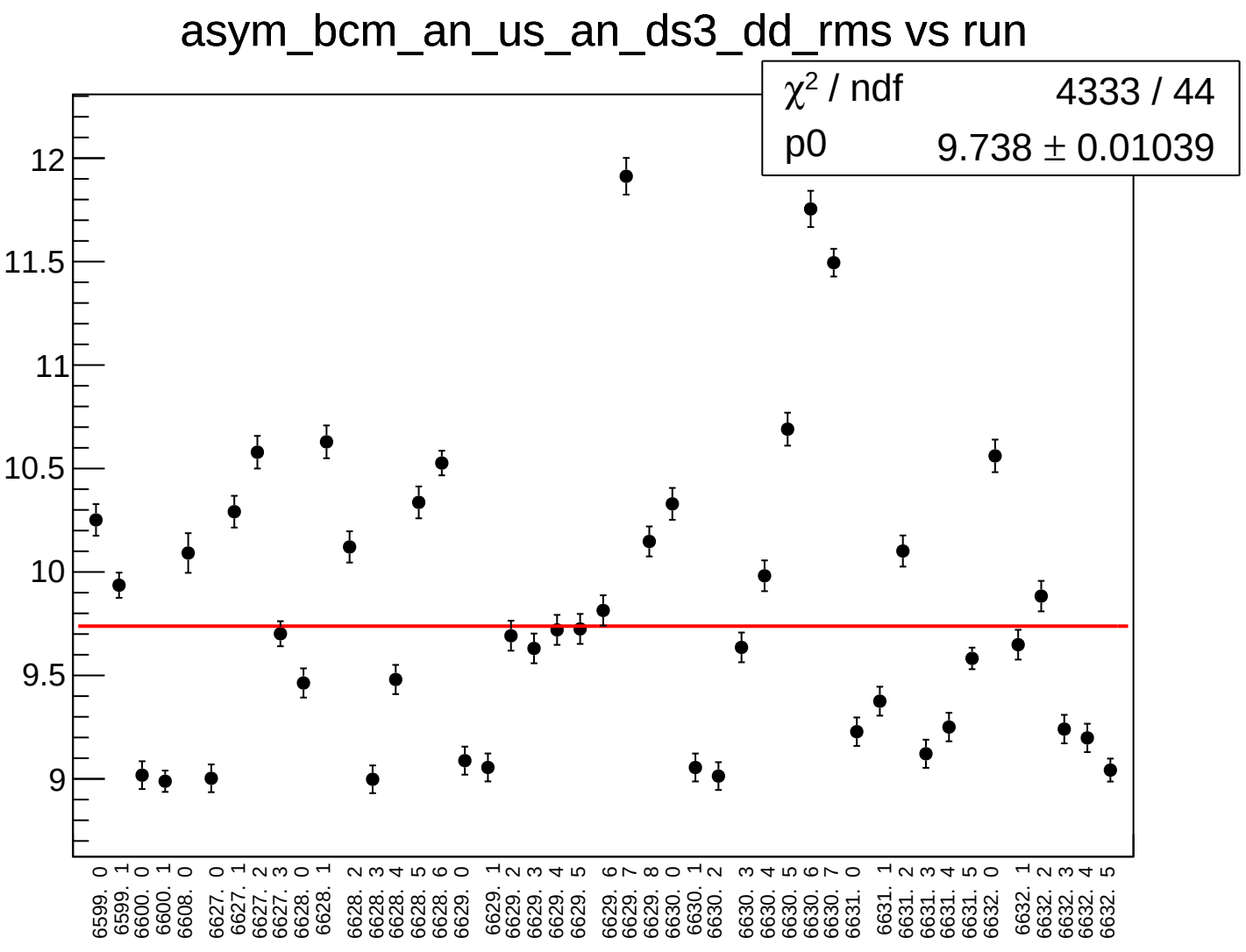
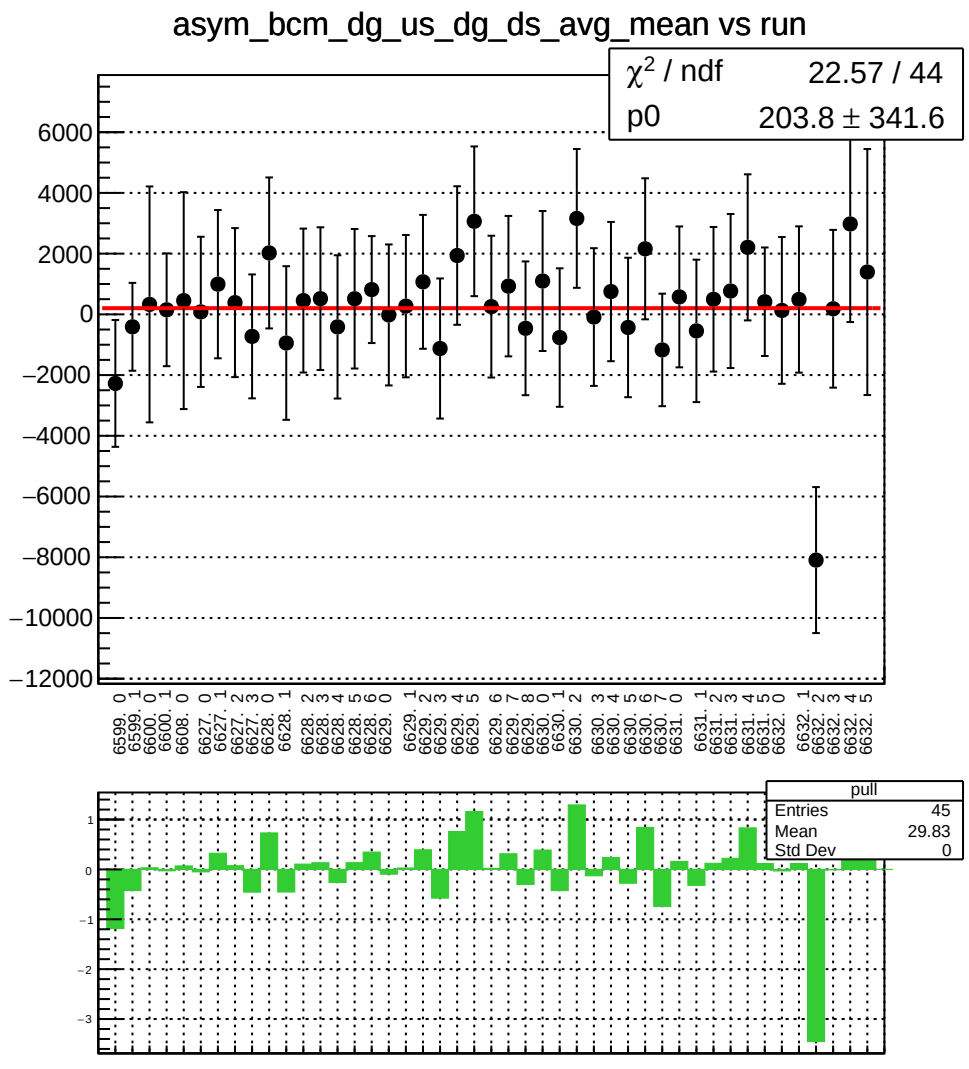
6632. 4
6632. 5


asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 41.23 / 44
p0 −9.241 ± 14.7
pull
Entries 45
Mean −32.69
Std Dev 13.4


pull1D
Entries 45
Mean 0.006649
Std Dev 0.9571


asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 4333 / 44
p0 9.738 ± 0.01039
12
11.5
11
10.5
10
9.5
9
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 22.57 / 44
p0 203.8 ± 341.6
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
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6629. 1
6629. 2
6629. 3
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6629. 7
6629. 8
6630. 0
6630. 1
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6630. 5
6630. 6
6630. 7
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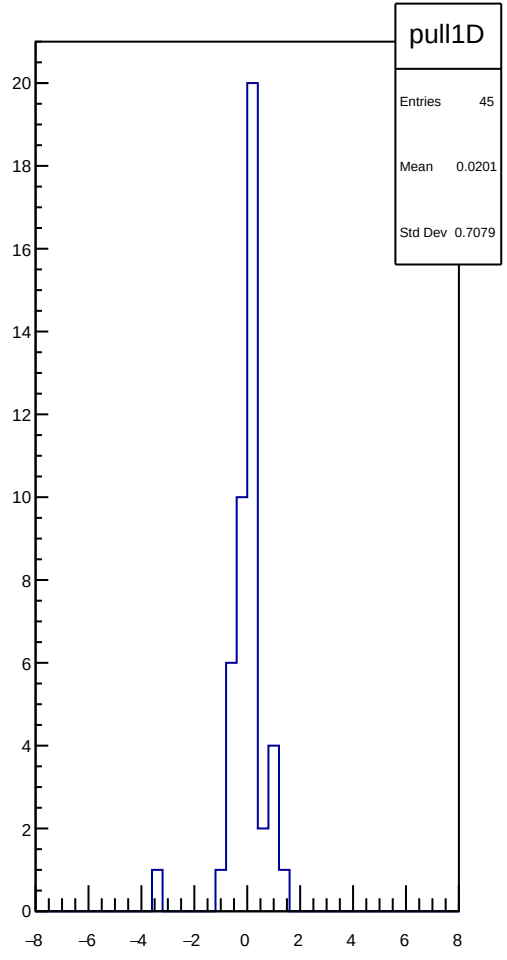
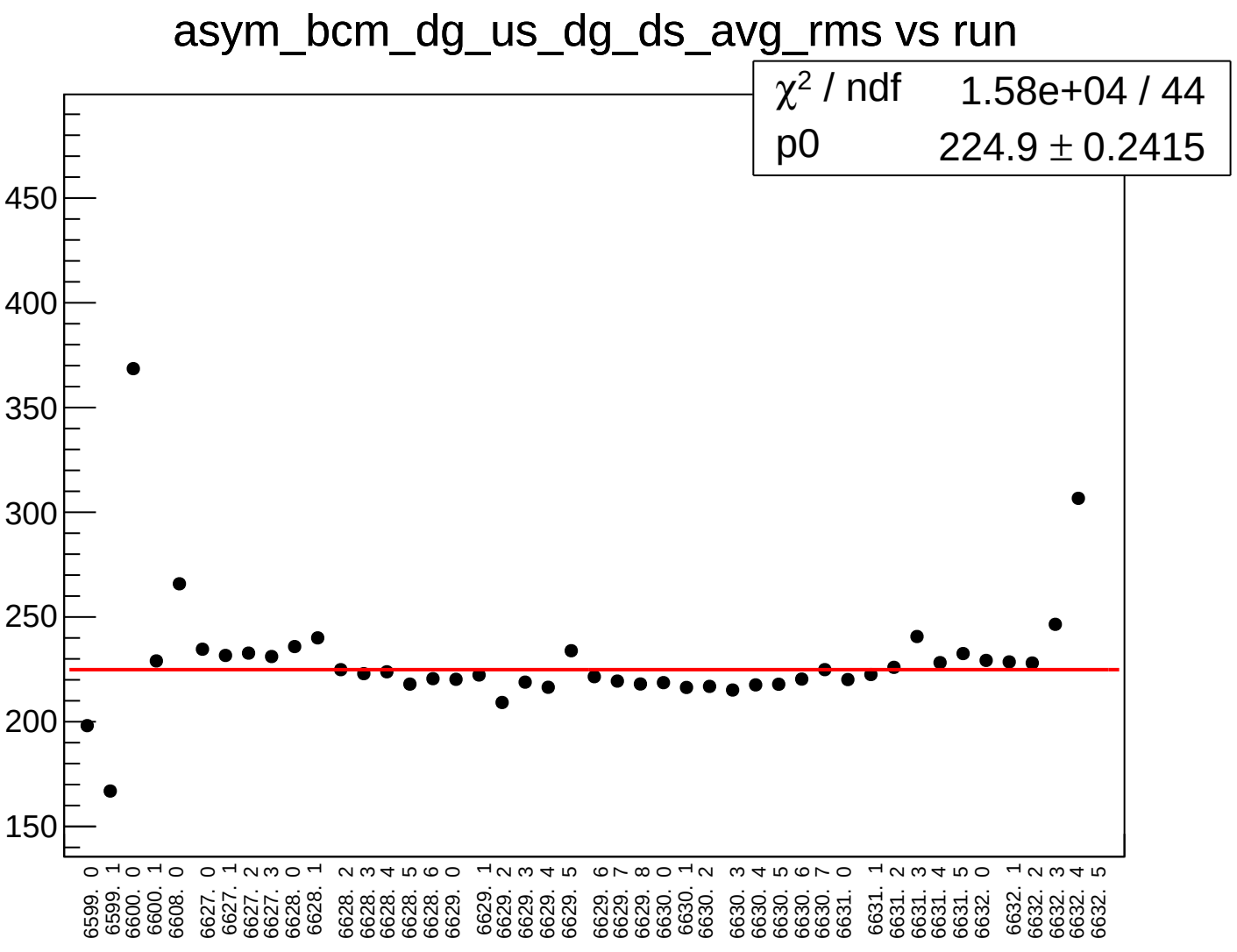
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 29.83
Std Dev 0
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.0201
Std Dev 0.7079
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 1.58e+04 / 44
p0 224.9 ± 0.2415
450
400
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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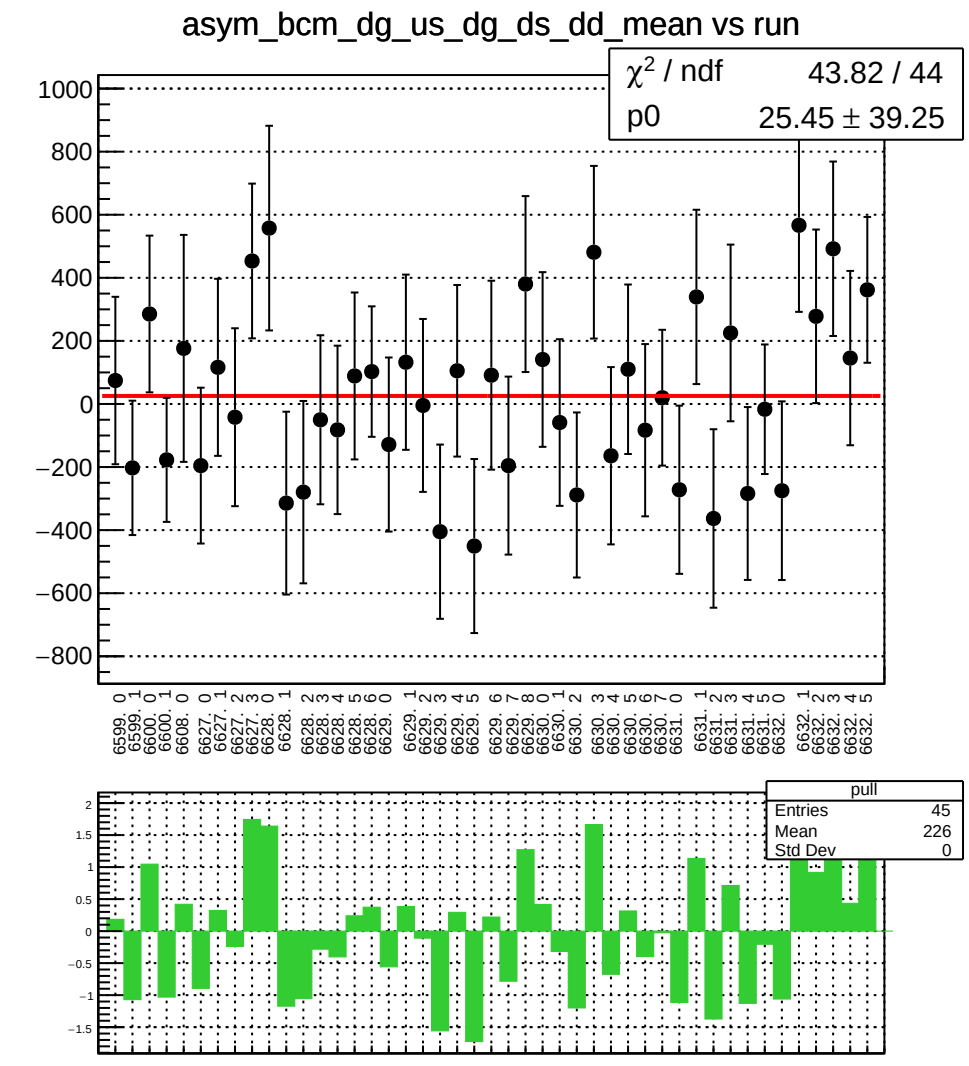
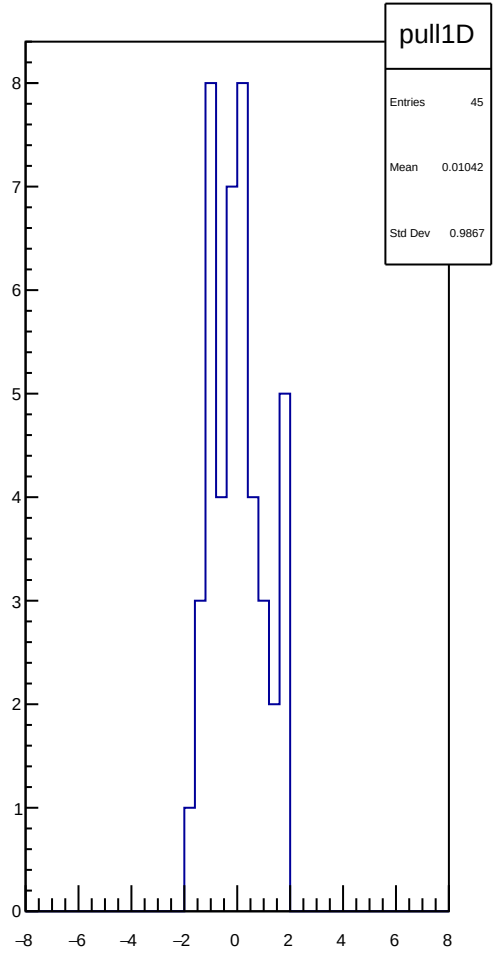
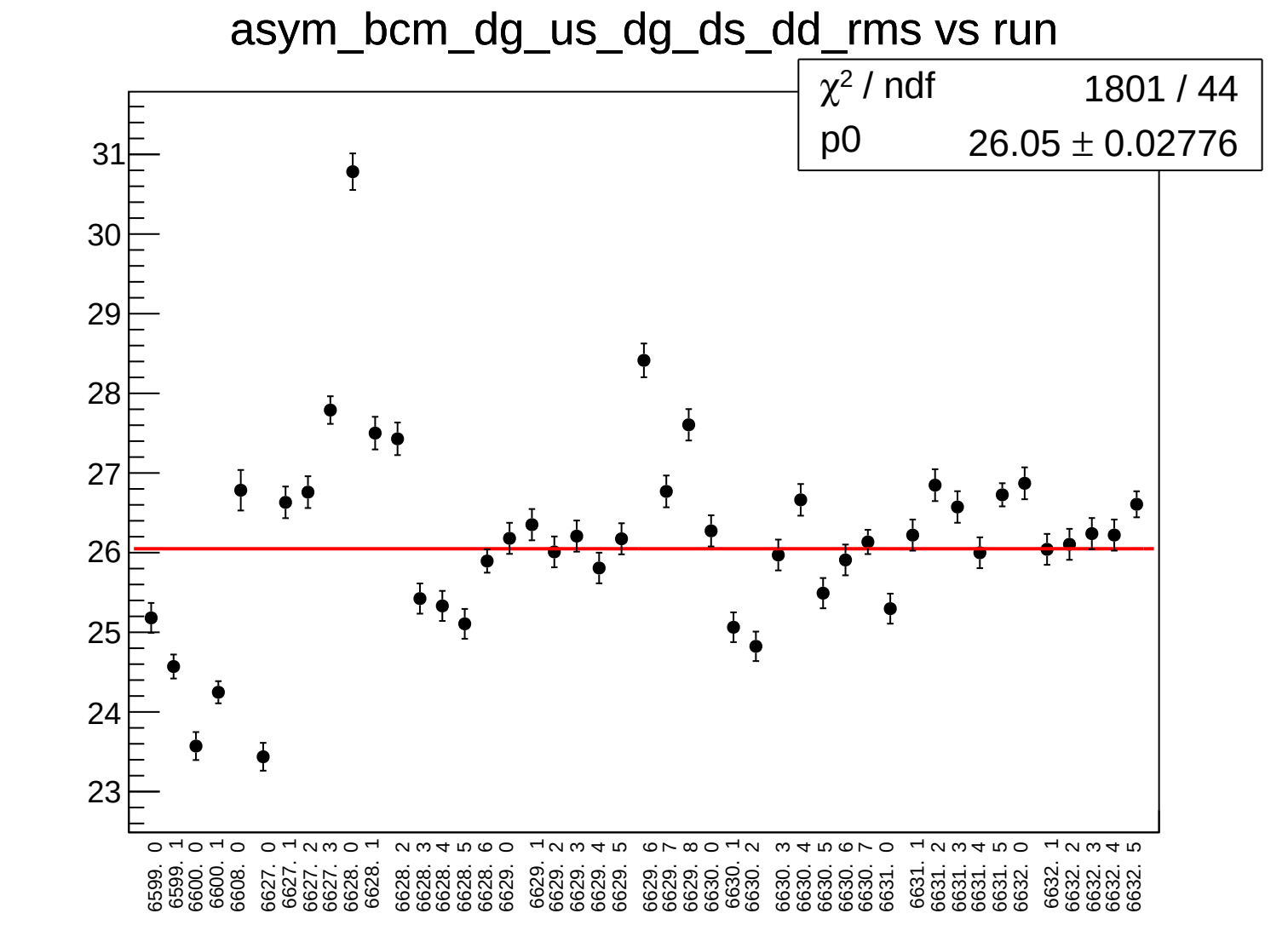
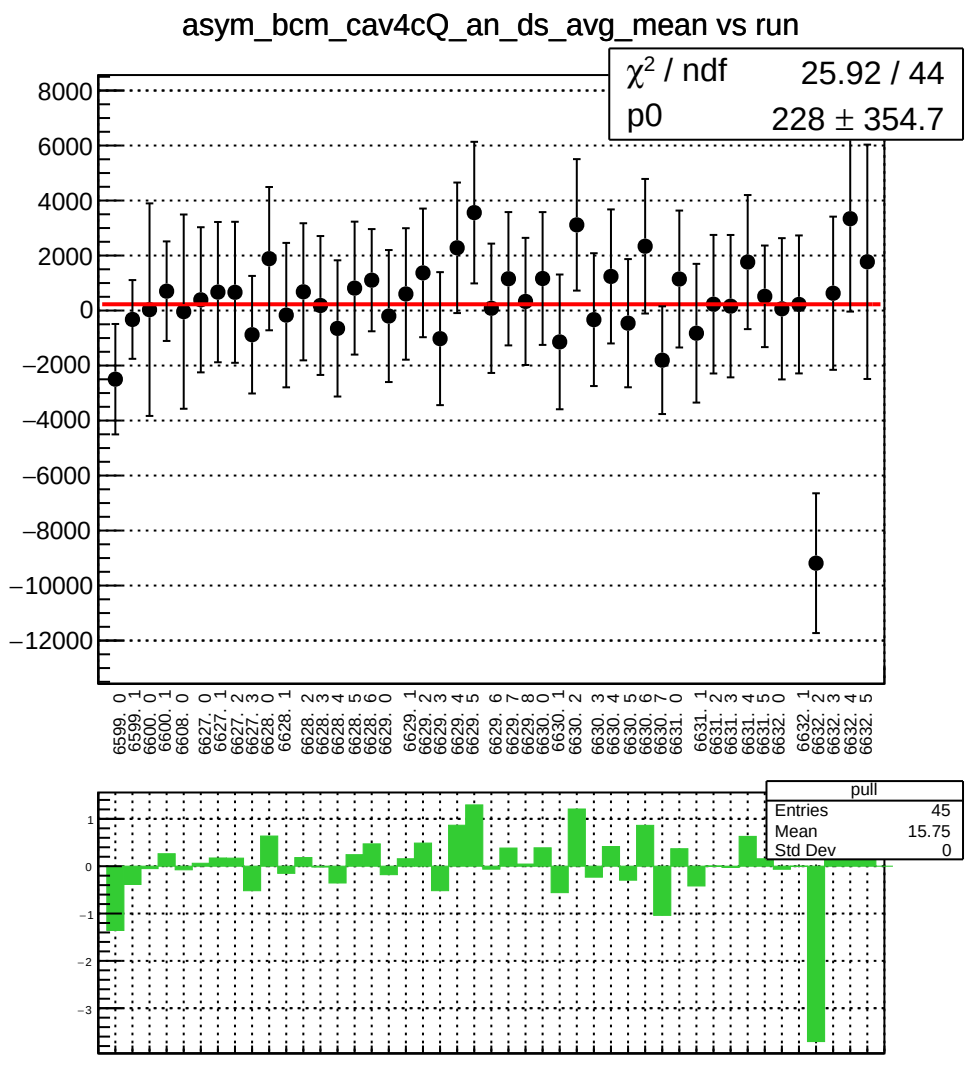
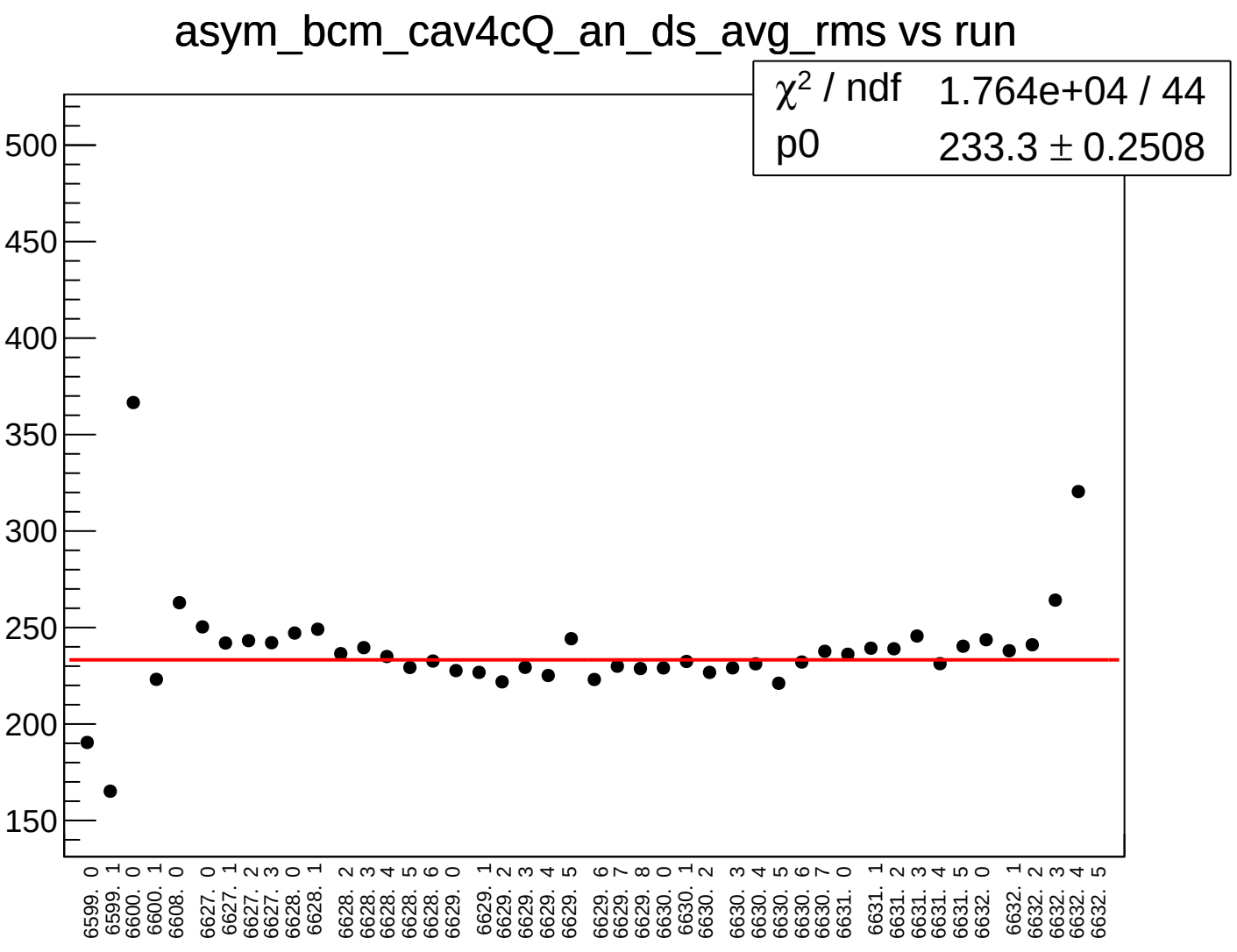
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

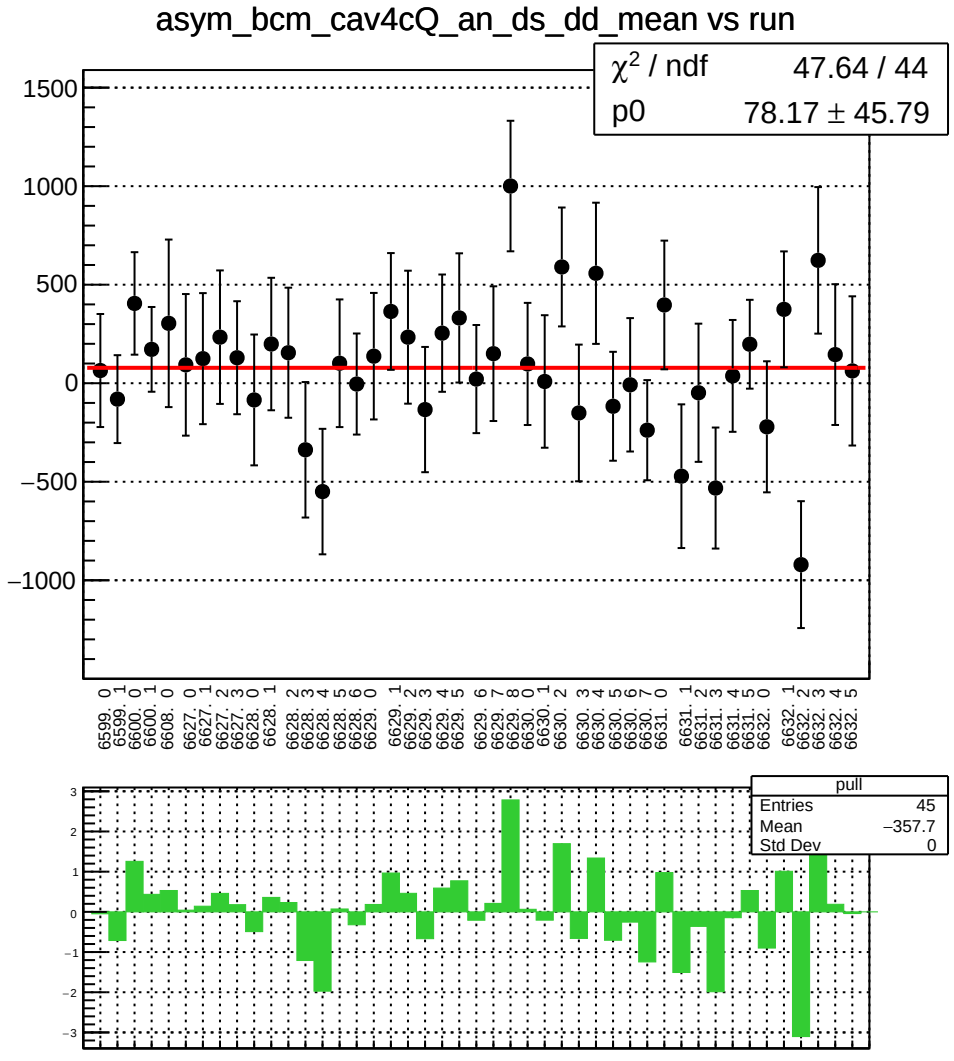

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 43.82 / 44
p0 25.45 ± 39.25
pull
Entries 45
Mean 226
Std Dev 0

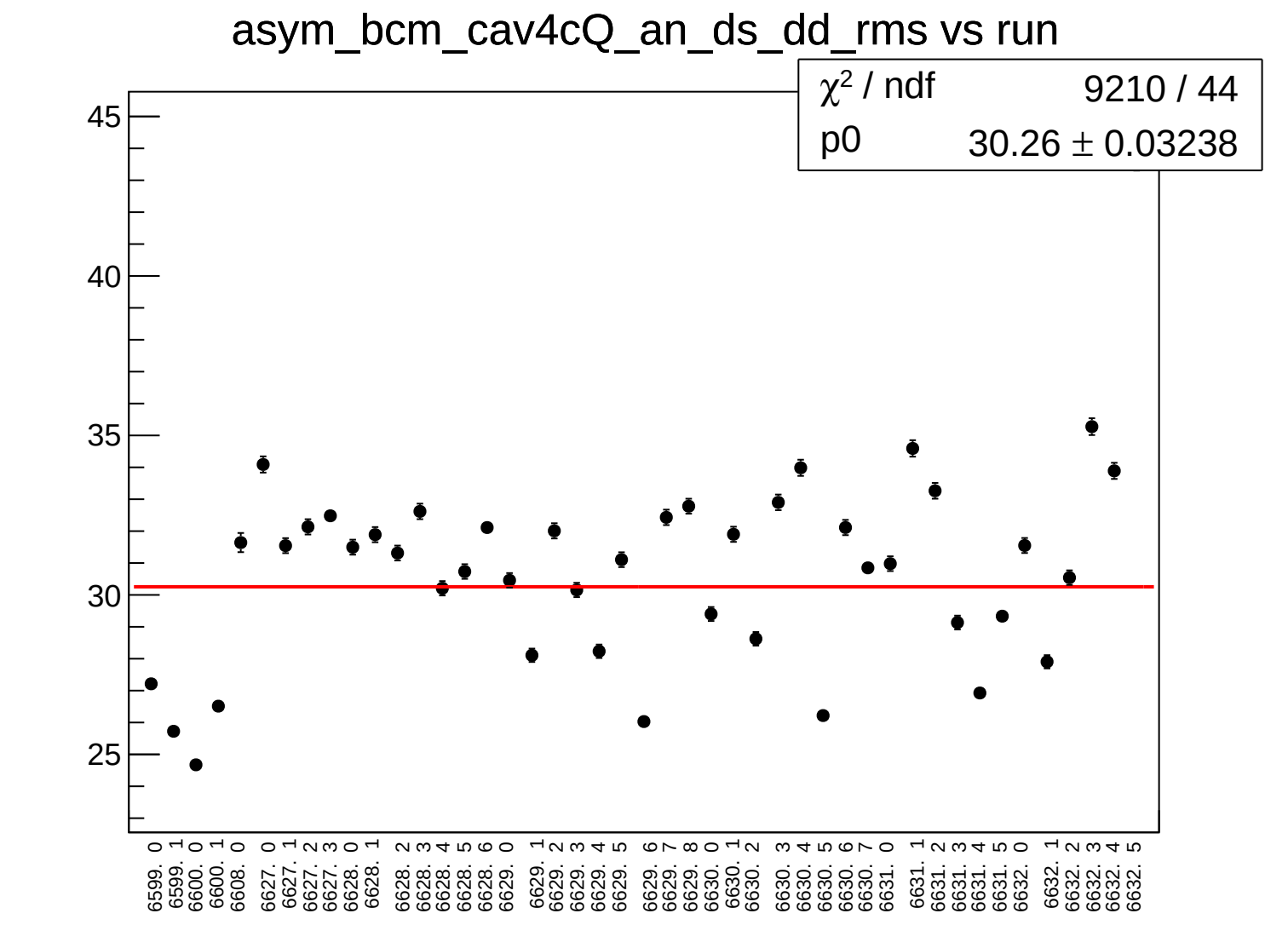

pull1D
Entries 45
Mean 0.01042
Std Dev 0.9867

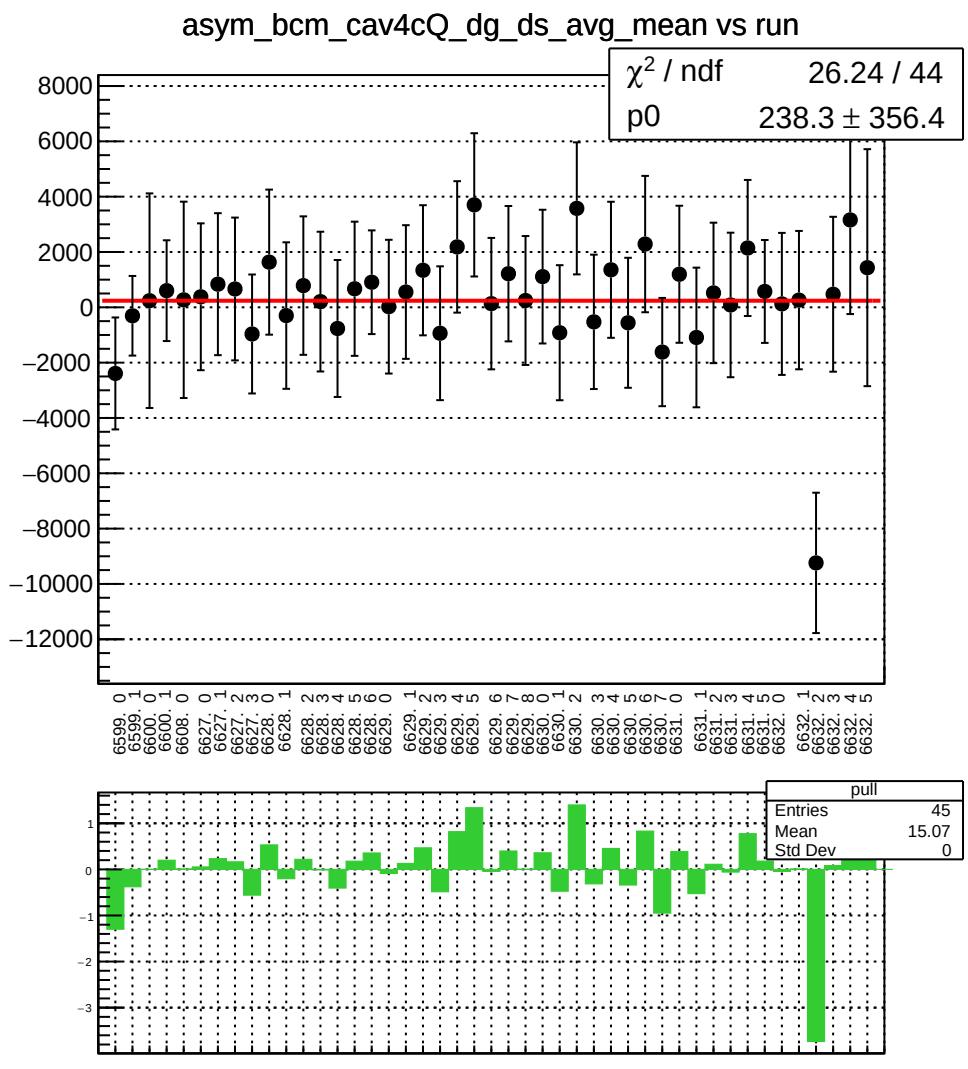

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 1801 / 44
p0 26.05 ± 0.02776
31
30
29
28
27
26
25
24
23
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

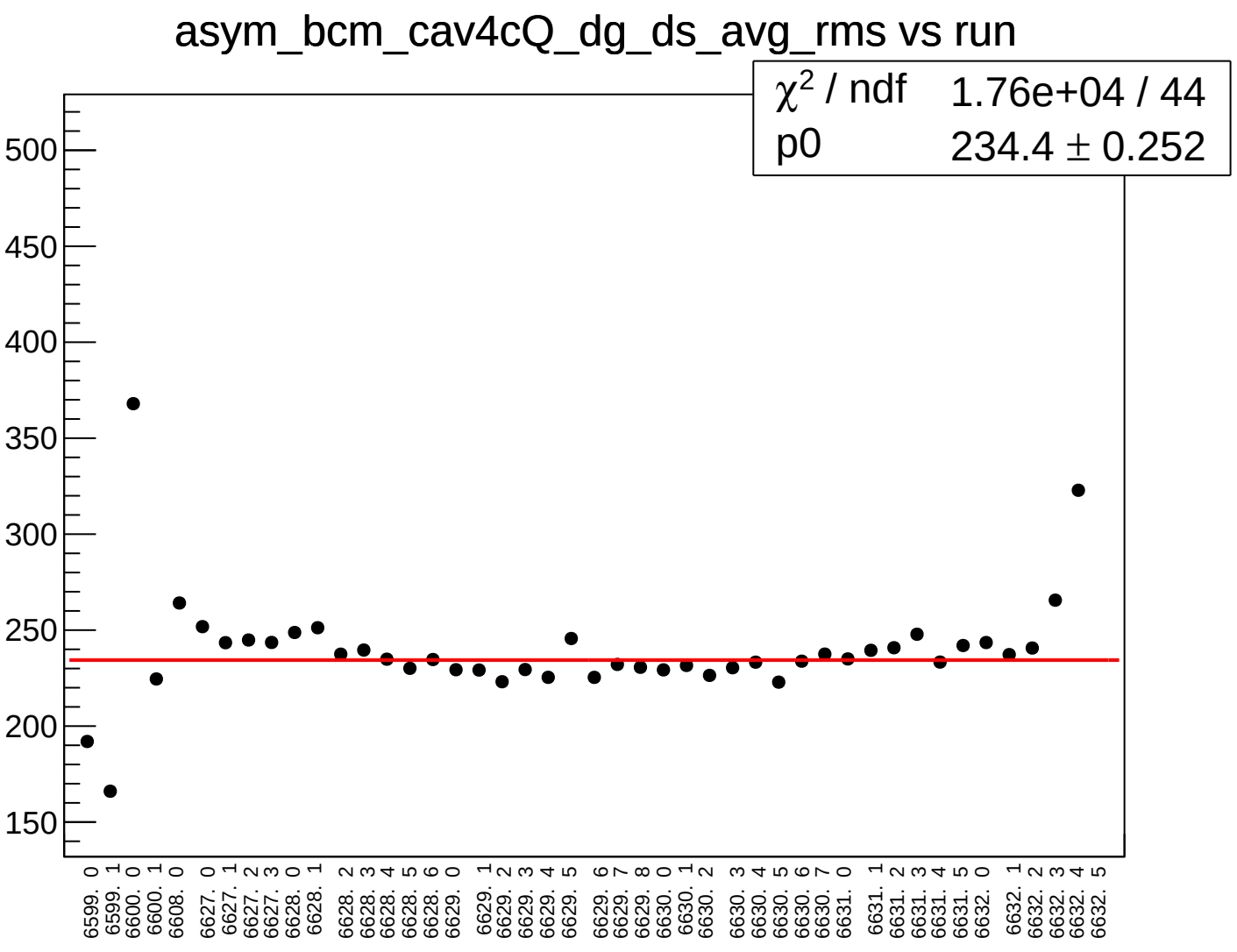

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 25.92 / 44
p0 228 ± 354.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 15.75
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.0197
Std Dev 0.7587
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

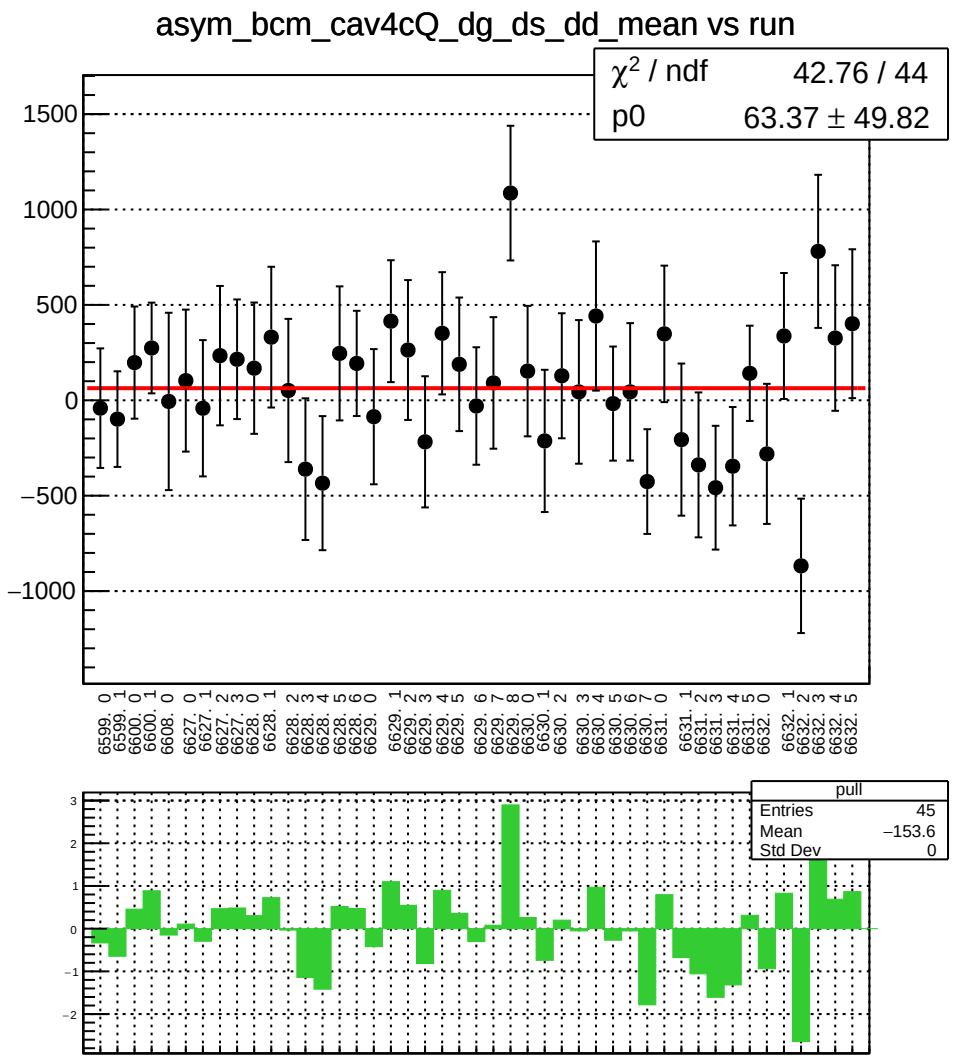

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 1.764e+04 / 44
p0 233.3 ± 0.2508
500
450
400
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

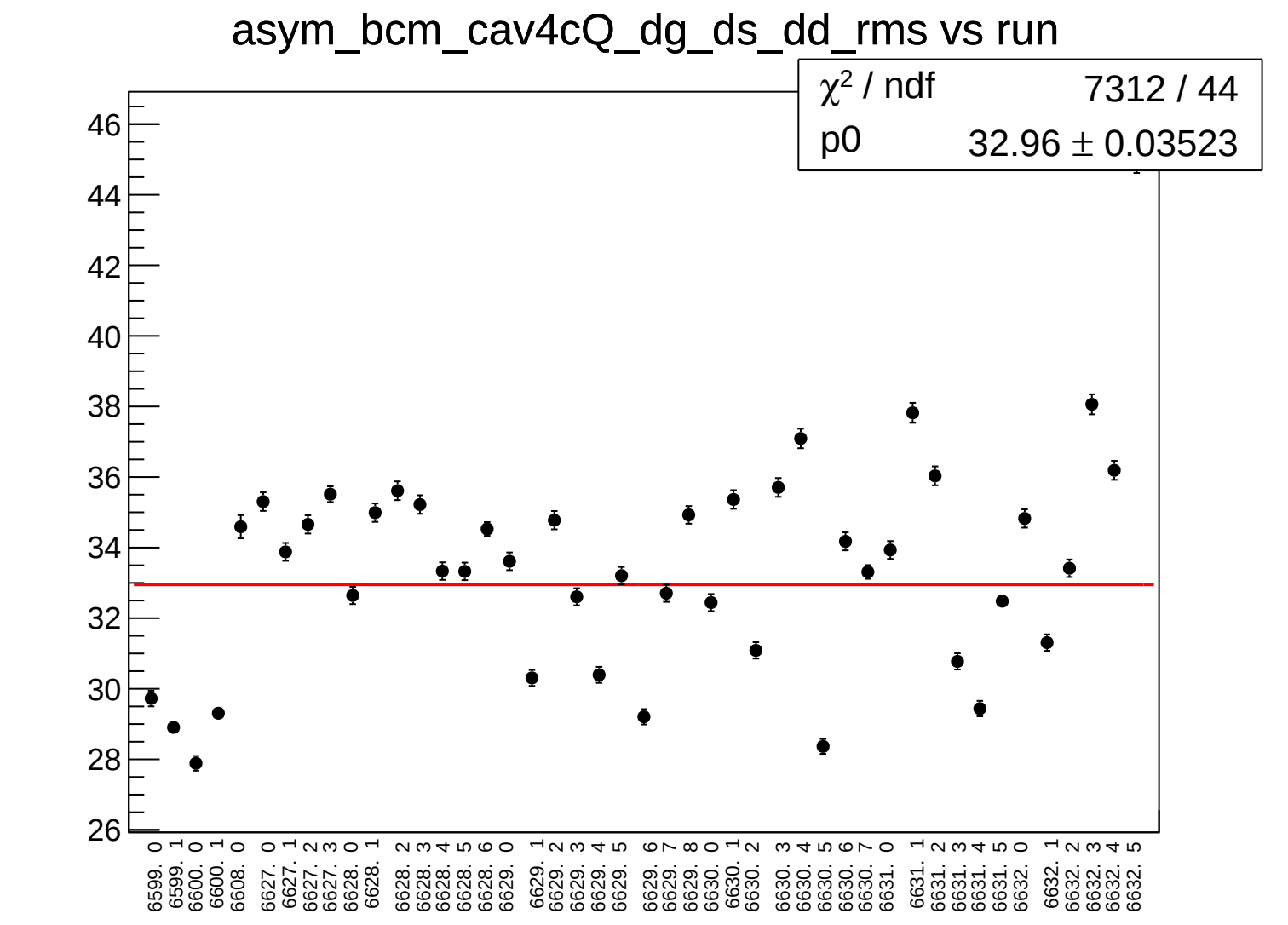

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 47.64 / 44
p0 78.17 ± 45.79
1500
1000
500
0
−500
−1000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −357.7
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.00436
Std Dev 1.029
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

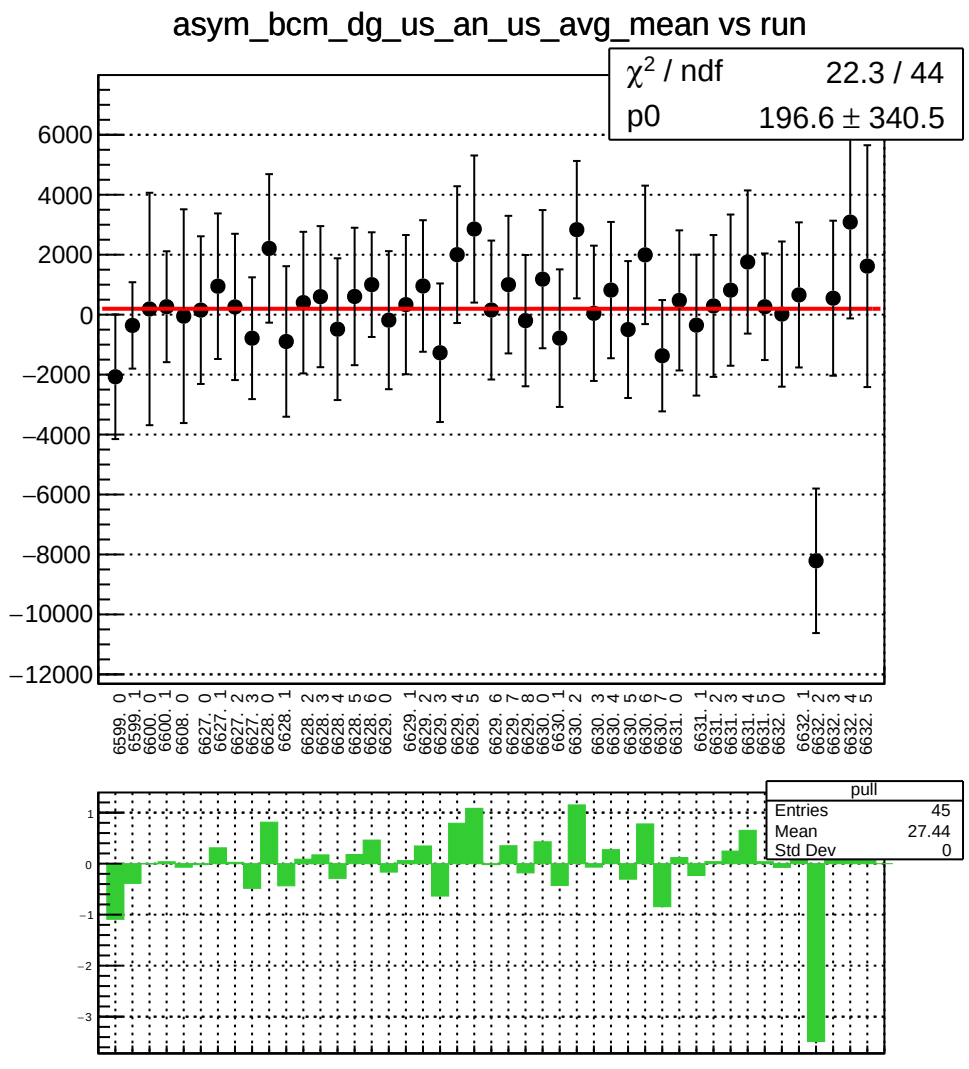

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 9210 / 44
p0 30.26 ± 0.03238
45
40
35
30
25
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

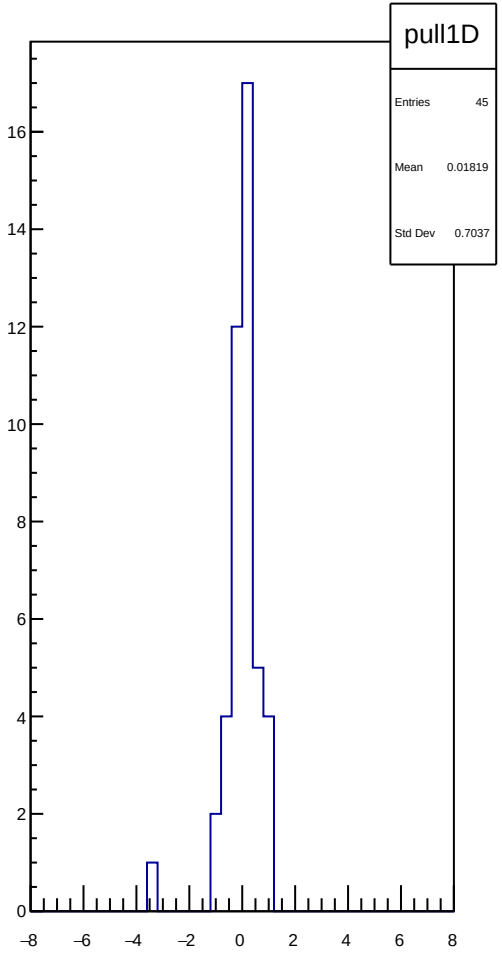

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 26.24 / 44
p0 238.3 ± 356.4
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 15.07
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.0203
Std Dev 0.7634
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

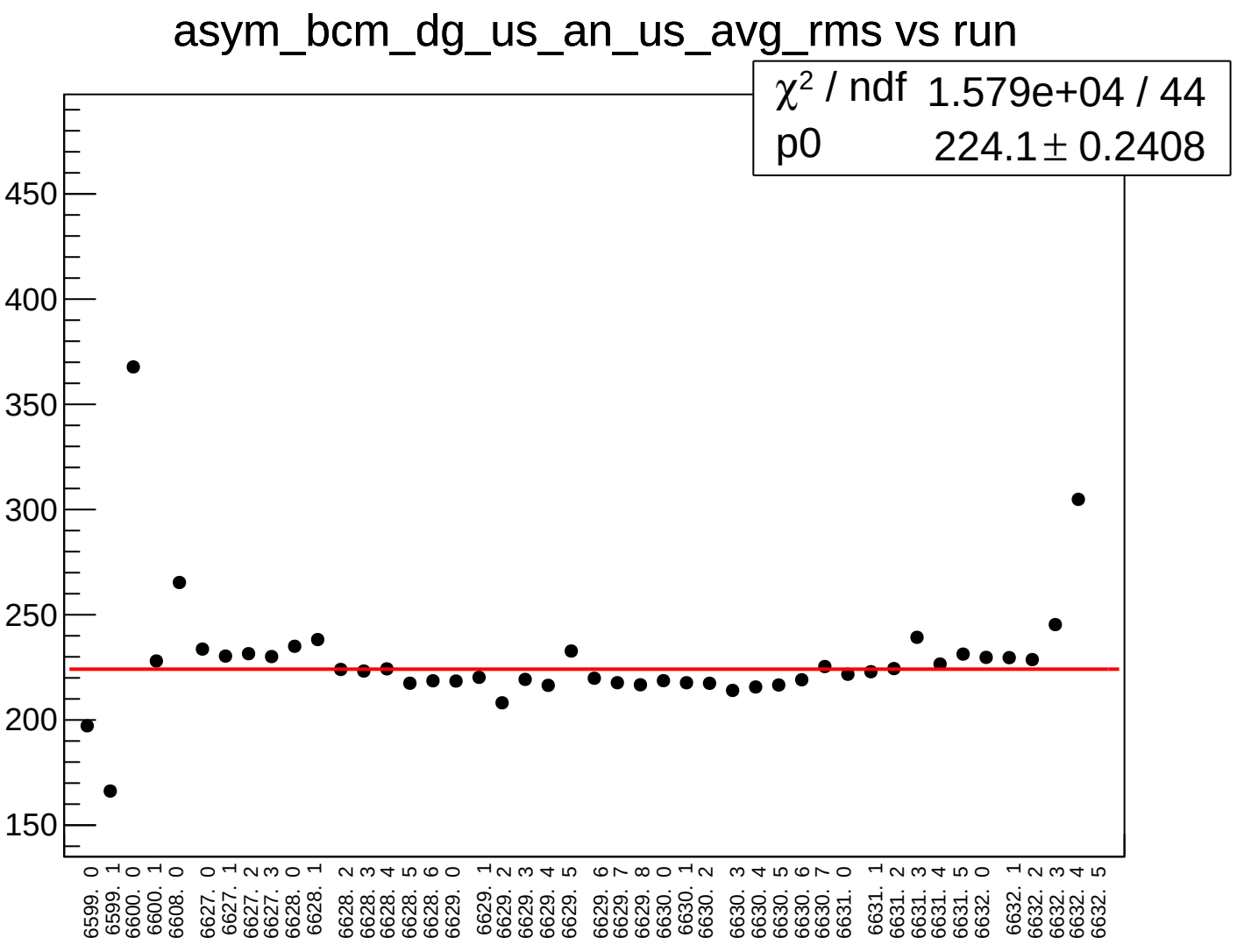

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 1.76e+04 / 44
p0 234.4 ± 0.252
500
450
400
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

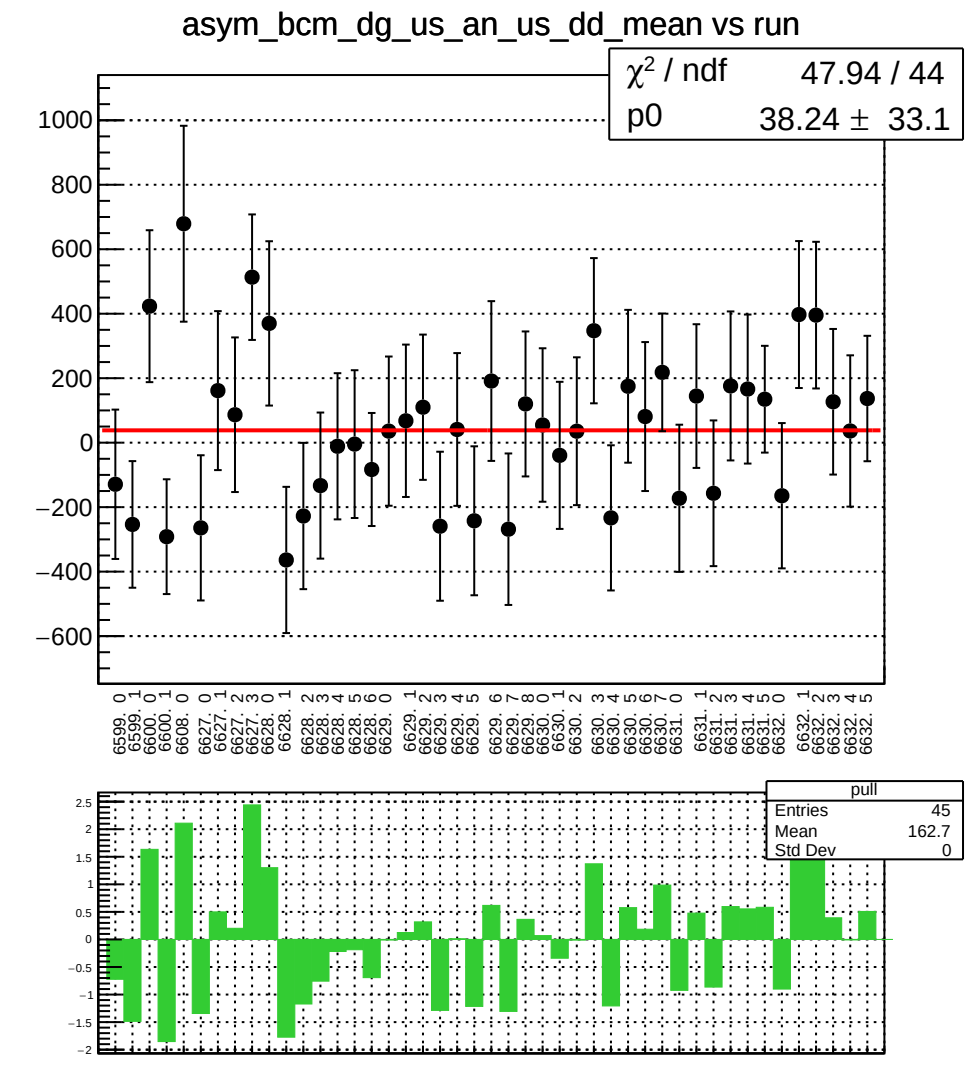

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 42.76 / 44
p0 63.37 ± 49.82
1500
1000
500
0
−500
−1000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −153.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.006985
Std Dev 0.9748
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

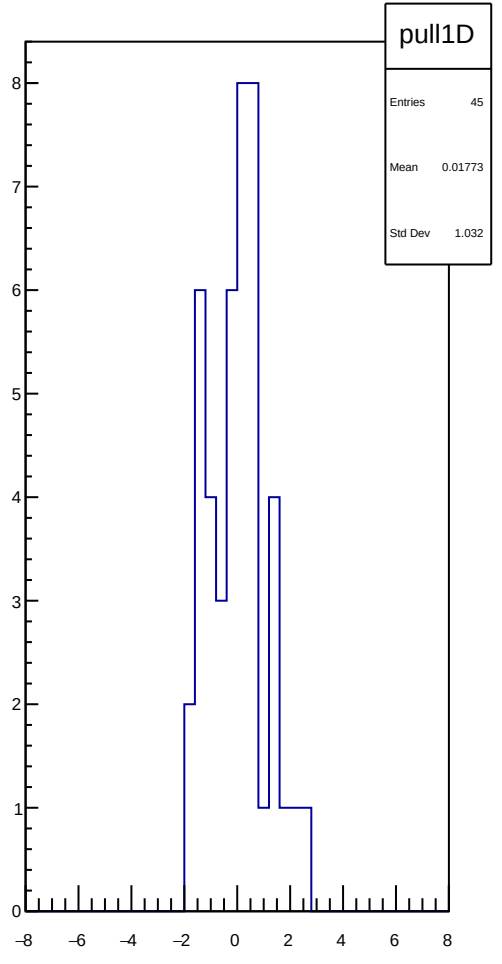

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 7312 / 44
p0 32.96 ± 0.03523
46
44
42
40
38
36
34
32
30
28
26
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

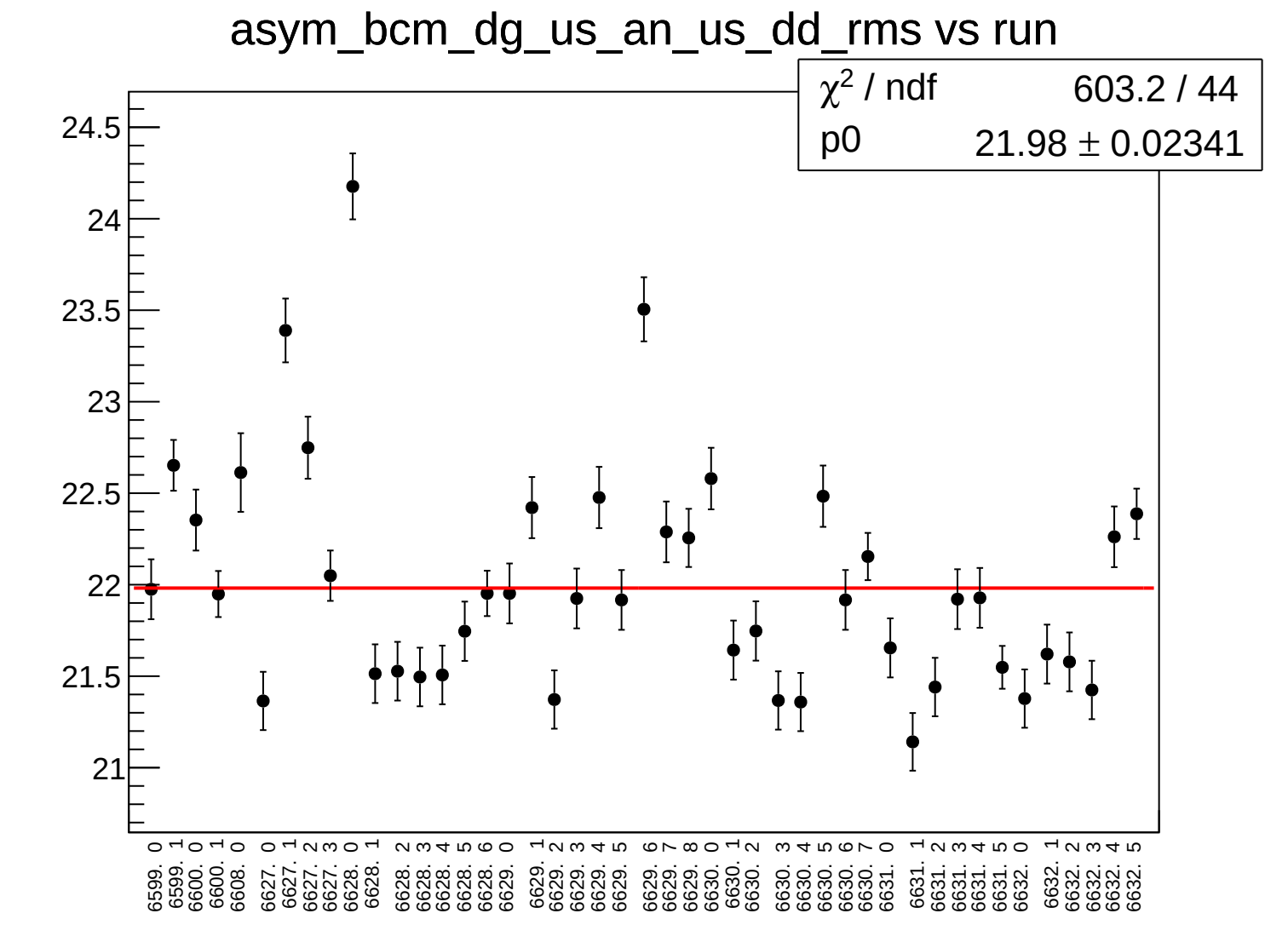

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 22.3 / 44
p0 196.6 ± 340.5
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 27.44
Std Dev 0
1
0
−1
−2
−3

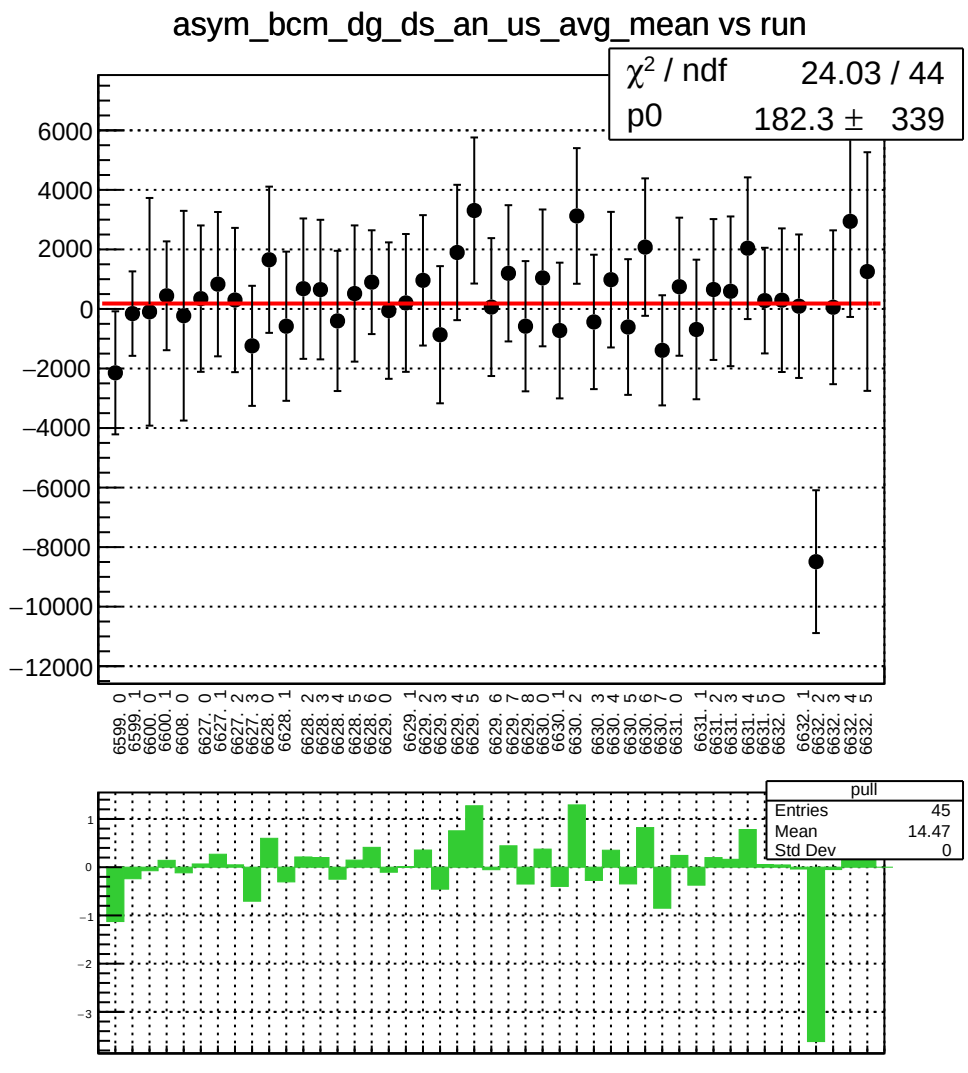

pull1D
Entries 45
Mean 0.01819
Std Dev 0.7037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

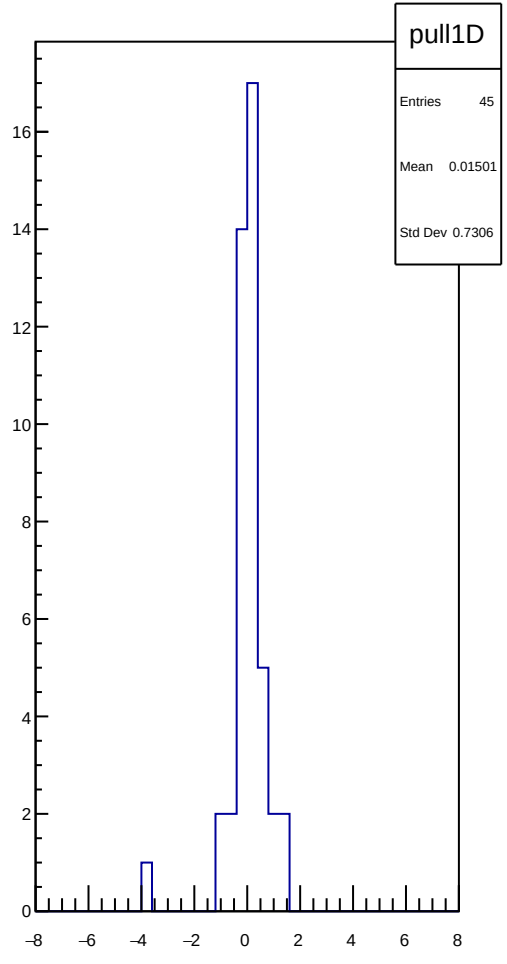

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 1.579e+04 / 44
p0 224.1 ± 0.2408
450
400
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

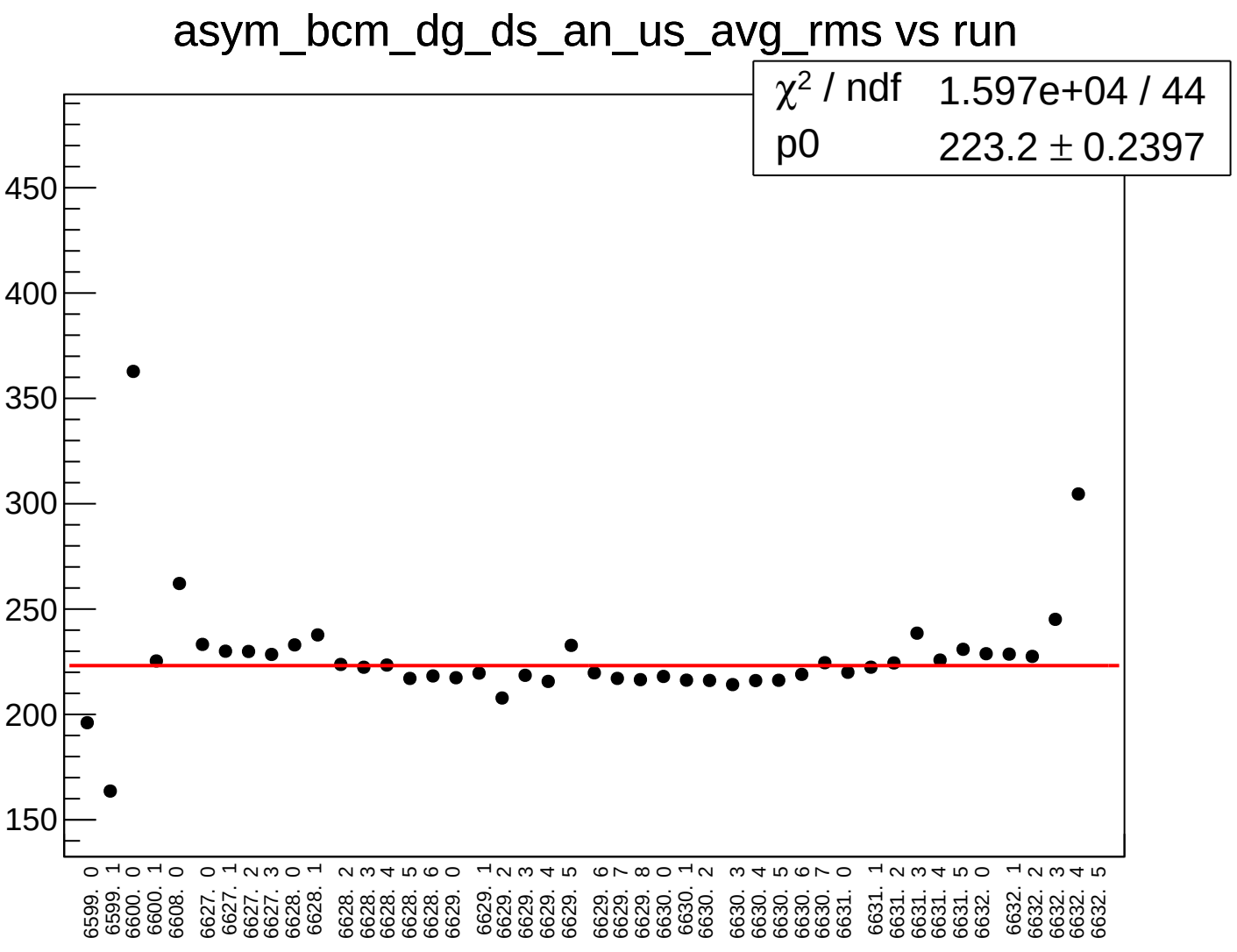

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 47.94 / 44
p0 38.24 ± 33.1
pull
Entries 45
Mean 162.7
Std Dev 0

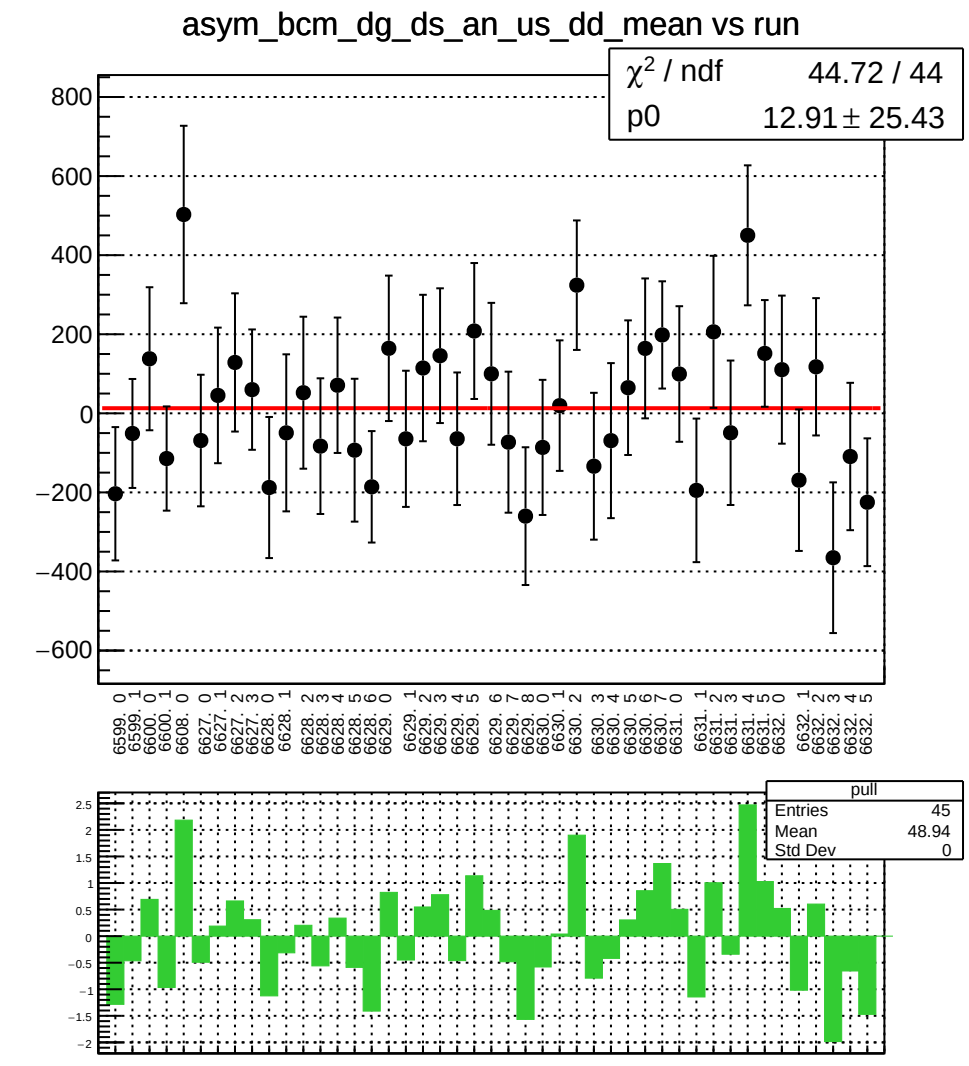

pull1D
Entries 45
Mean 0.01773
Std Dev 1.032

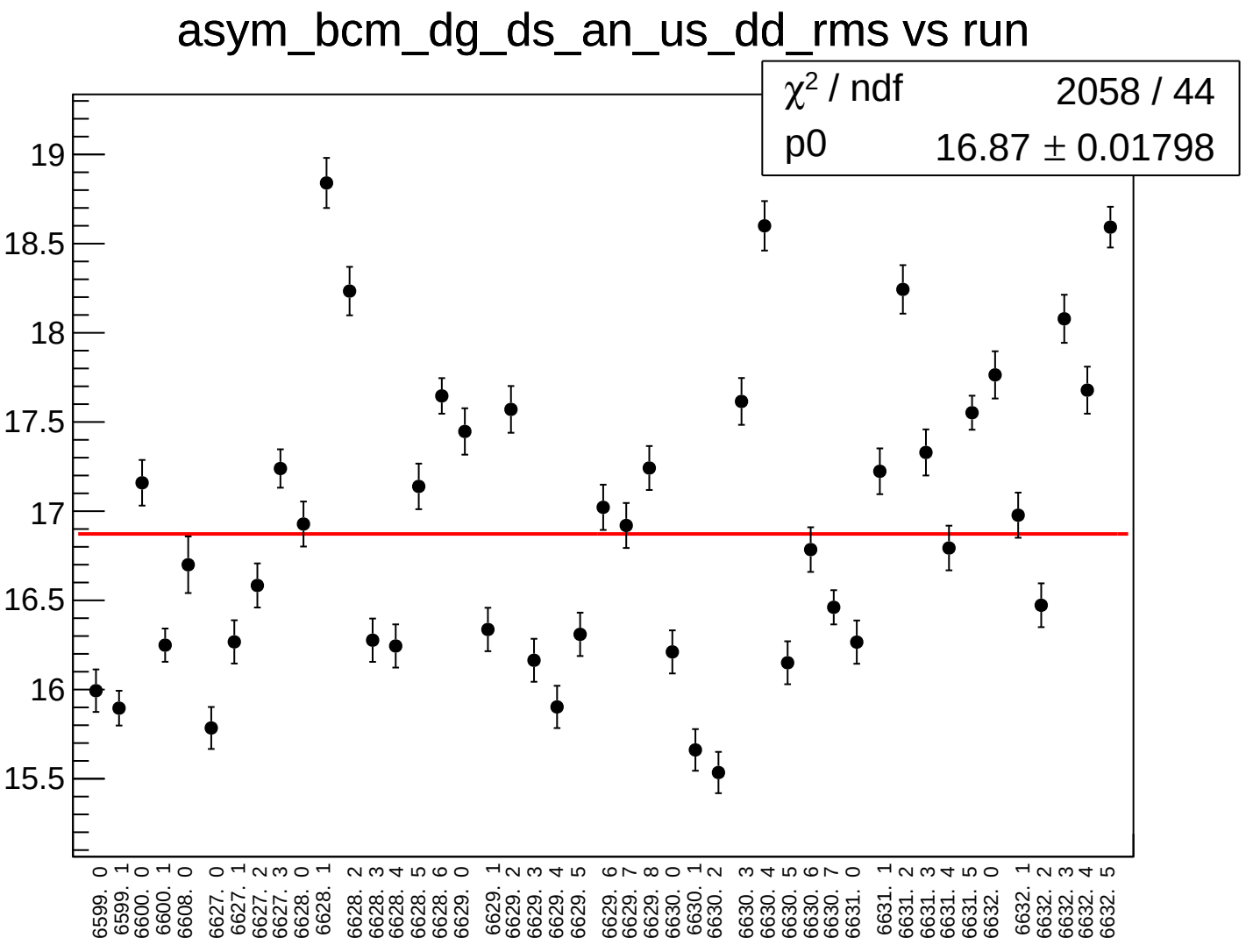

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 603.2 / 44
p0 21.98 ± 0.02341
24.5
24
23.5
23
22.5
22
21.5
21
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

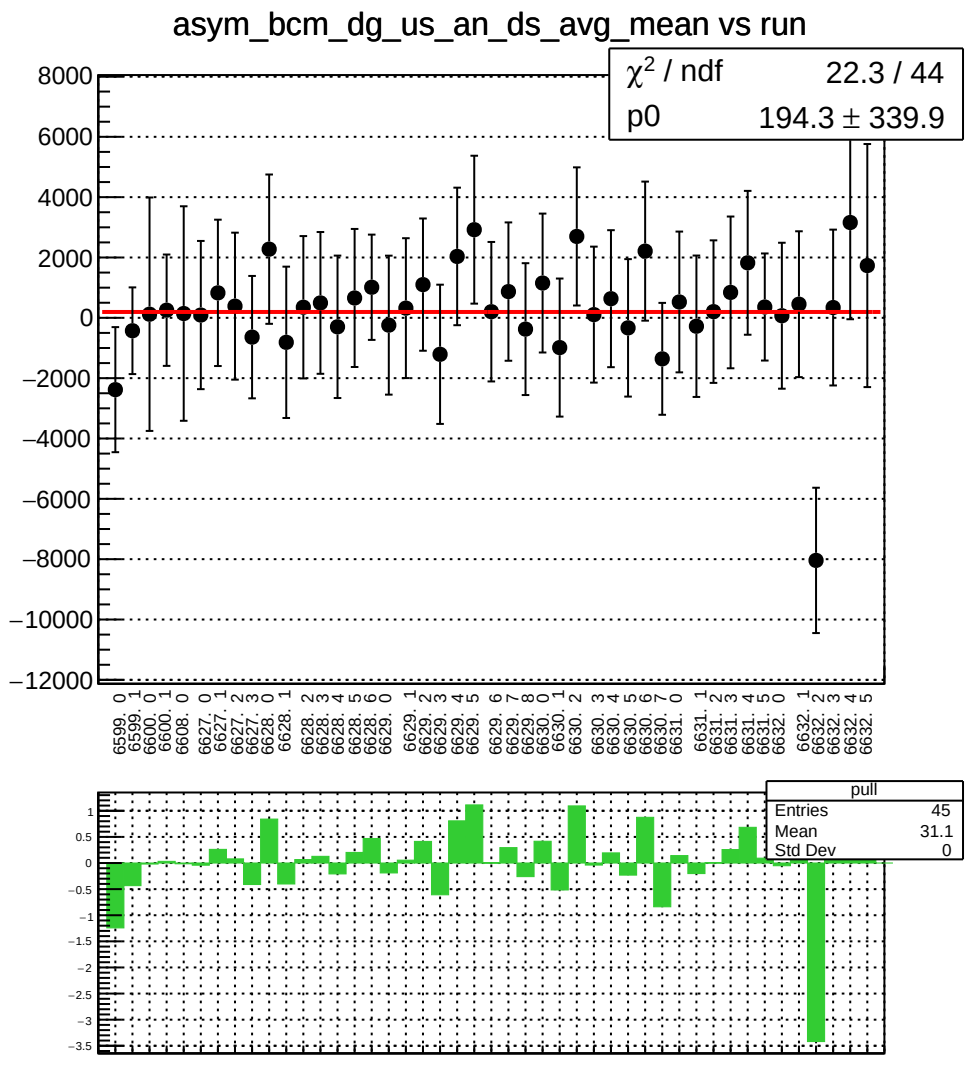

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 24.03 / 44
p0 182.3 ± 339
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 14.47
Std Dev 0
1
0
−1
−2
−3

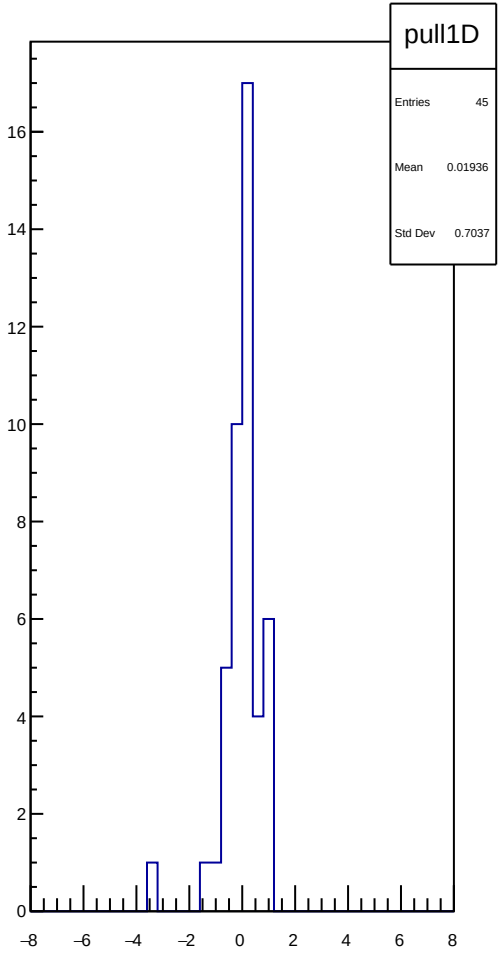

pull1D
Entries 45
Mean 0.01501
Std Dev 0.7306
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

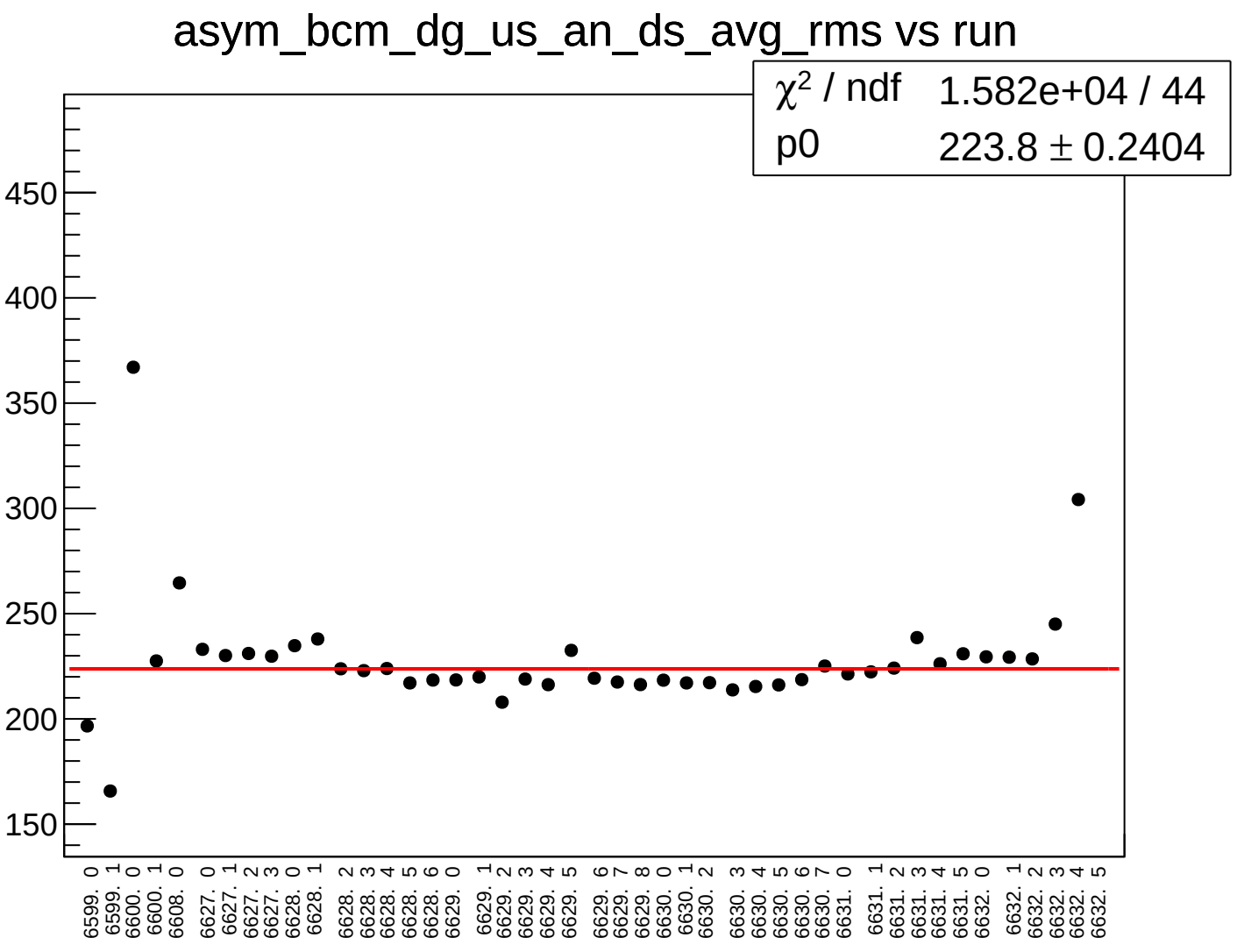

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 1.597e+04 / 44
p0 223.2 ± 0.2397
450
400
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

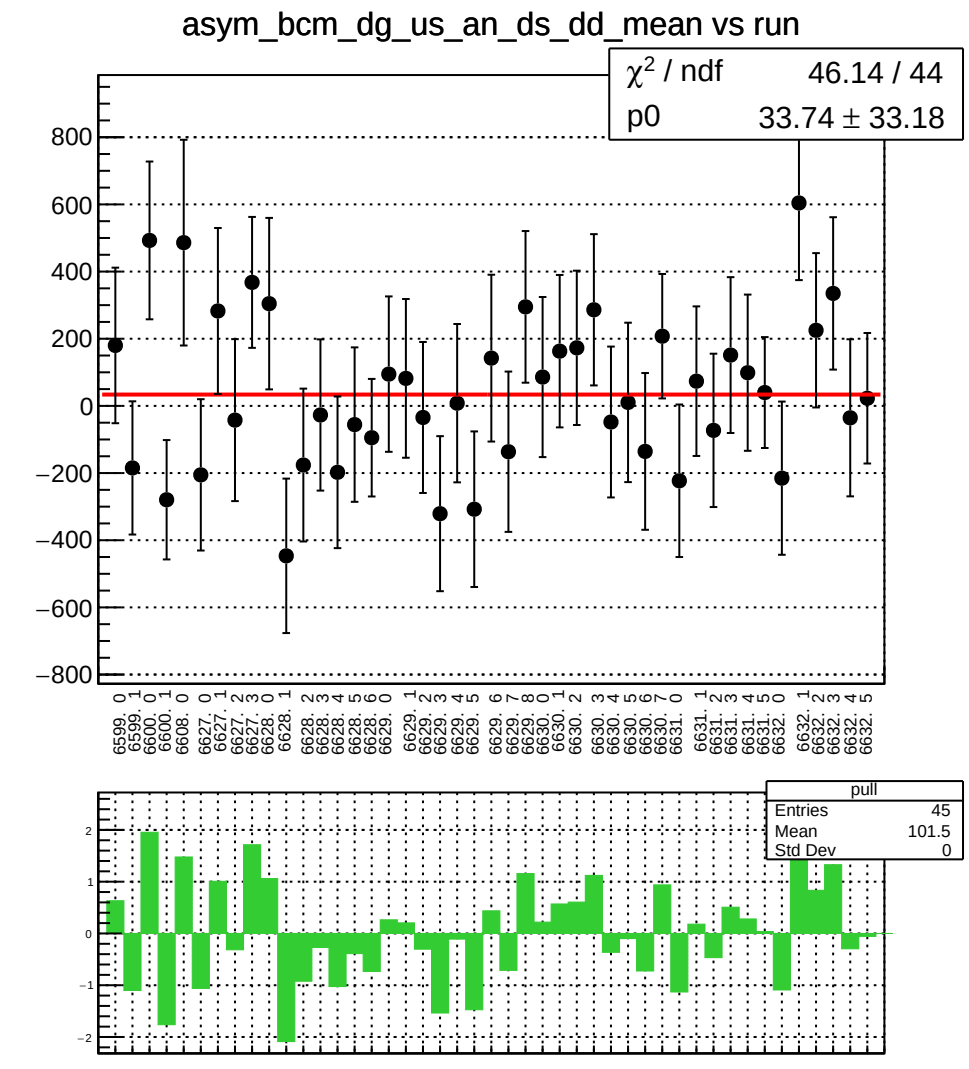

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 44.72 / 44
p0 12.91 ± 25.43
800
600
400
200
0
−200
−400
−600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 48.94
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.008638
Std Dev 0.9968
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

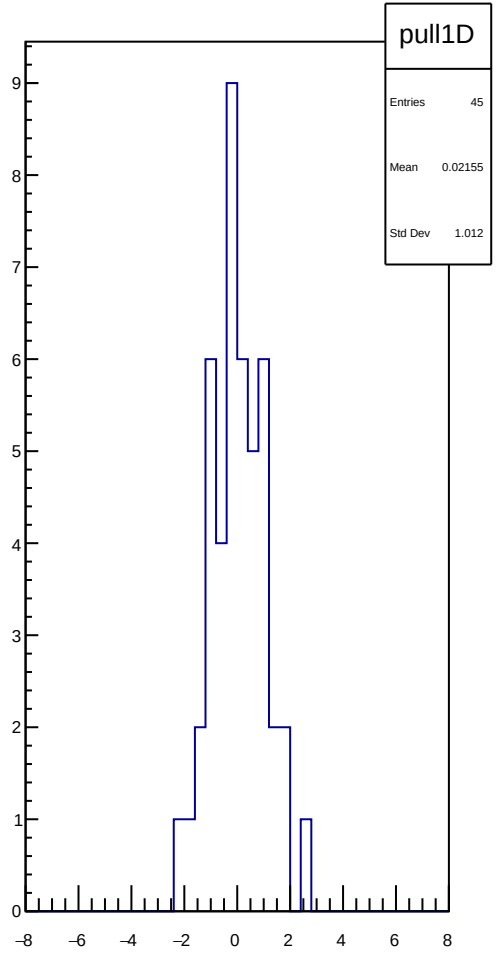

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 2058 / 44
p0 16.87 ± 0.01798
19
18.5
18
17.5
17
16.5
16
15.5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

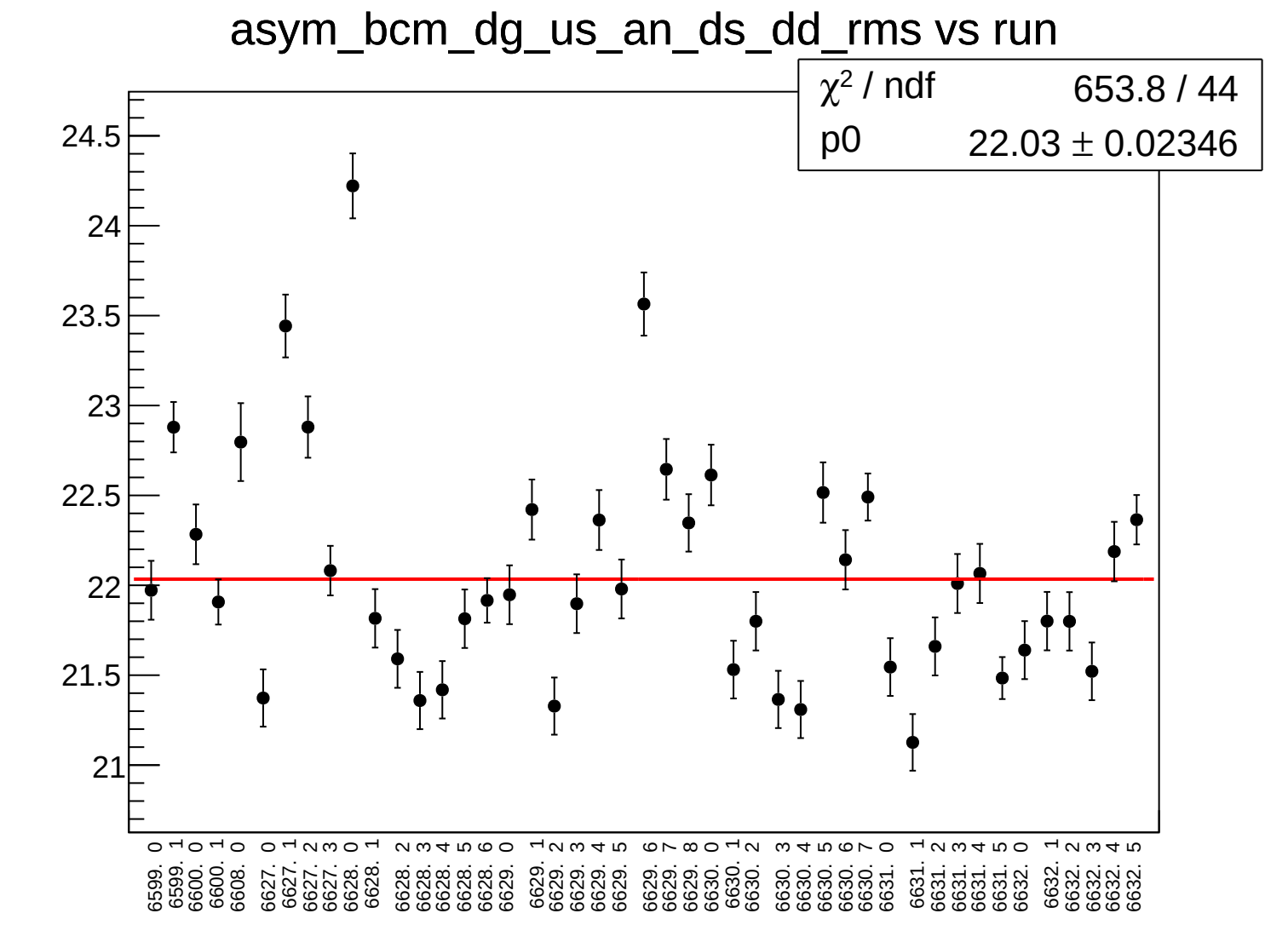

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 22.3 / 44
p0 194.3 ± 339.9
pull
Entries 45
Mean 31.1
Std Dev 0

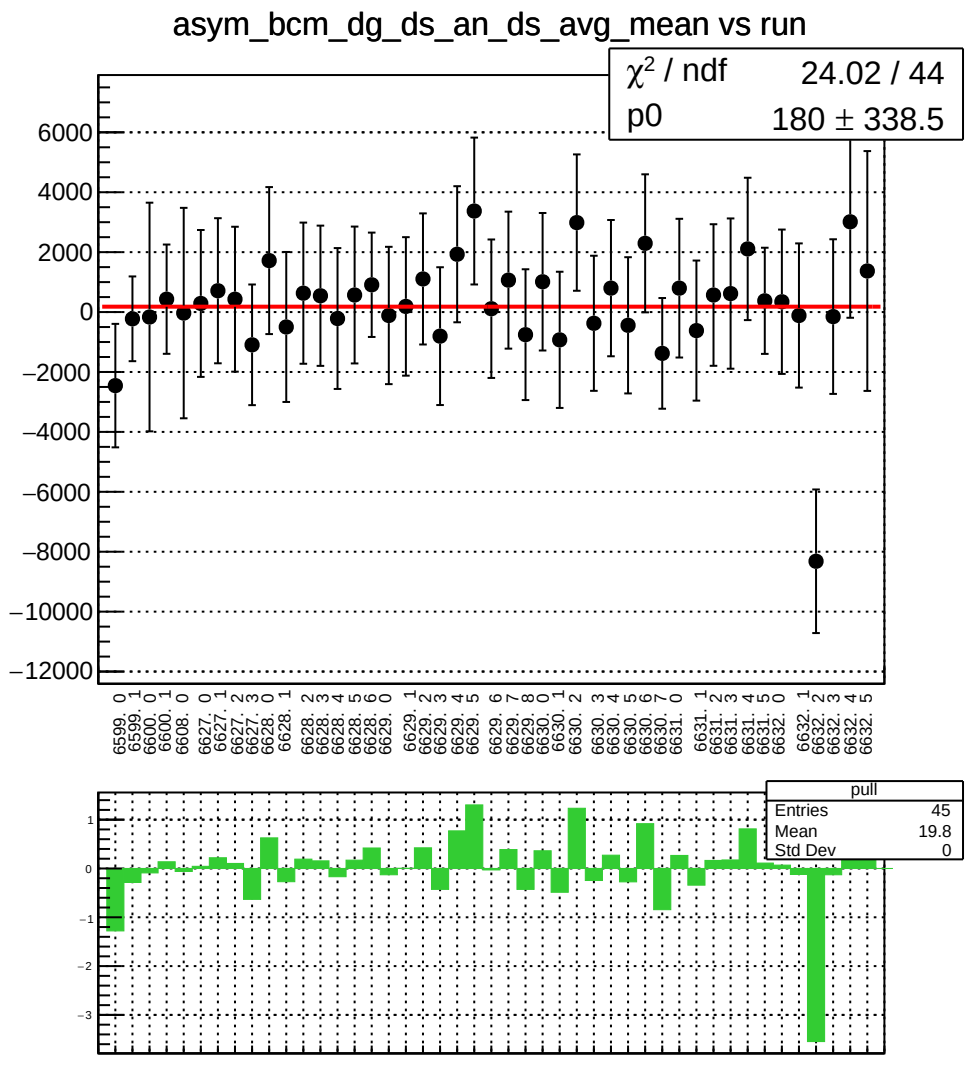

pull1D
Entries 45
Mean 0.01936
Std Dev 0.7037

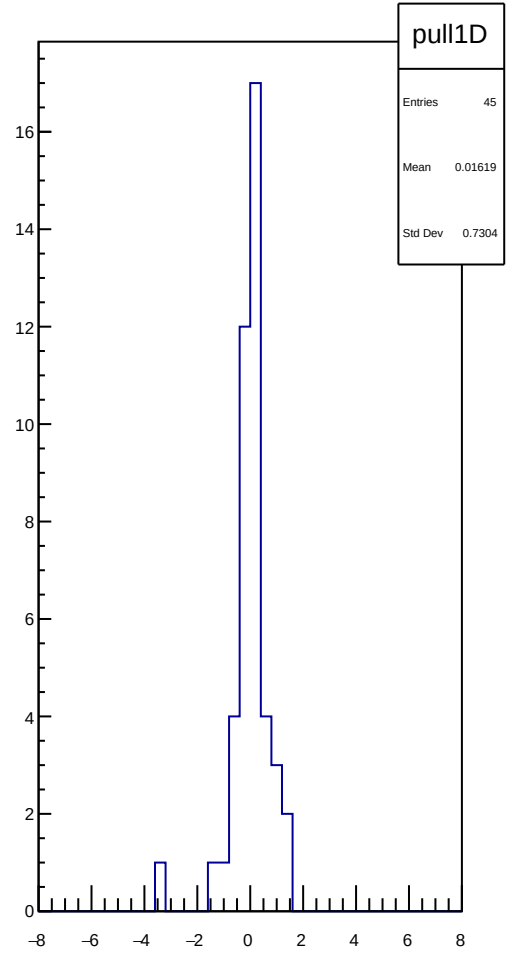

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 1.582e+04 / 44
p0 223.8 ± 0.2404
450
400
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

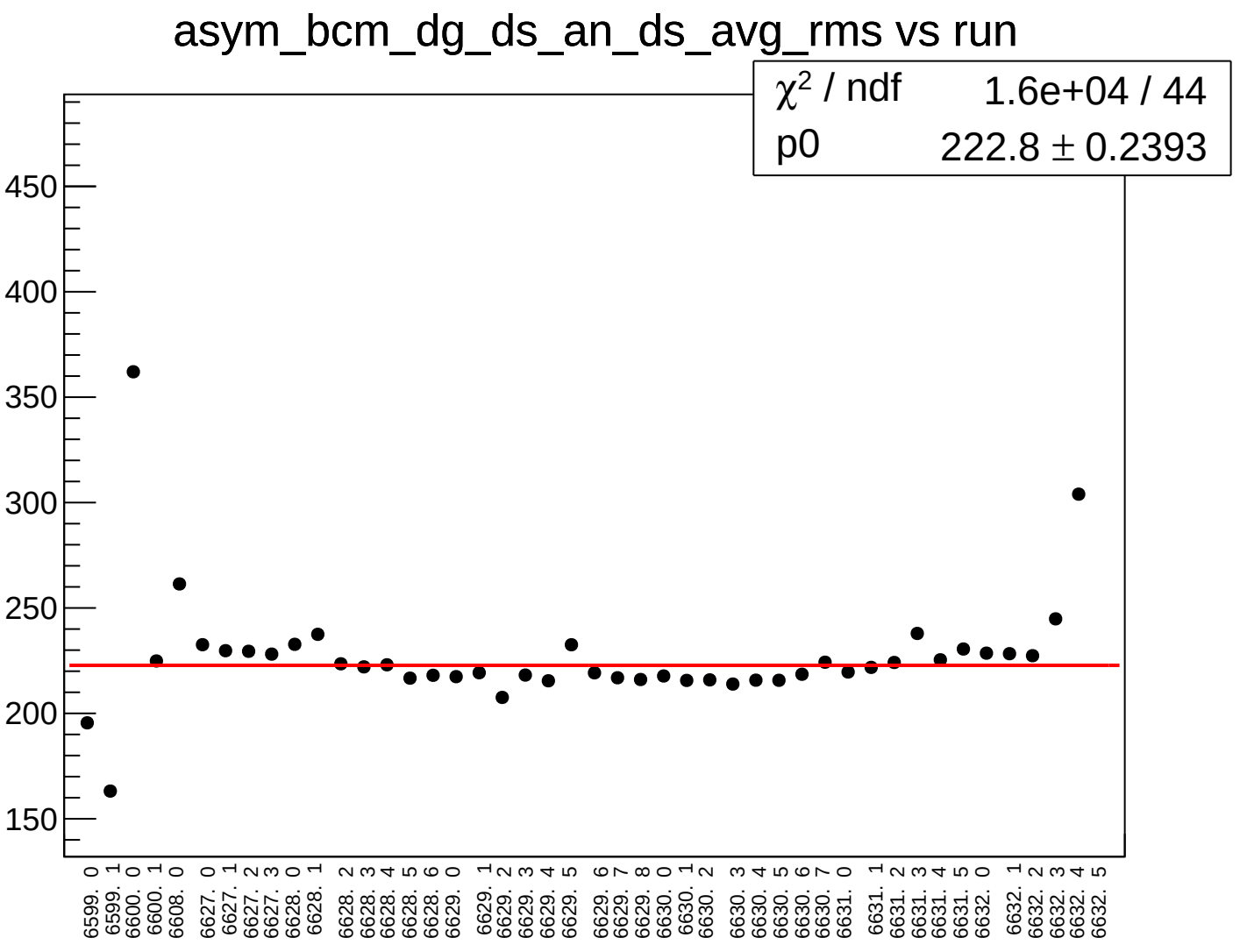

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 46.14 / 44
p0 33.74 ± 33.18
pull
Entries 45
Mean 101.5
Std Dev 0

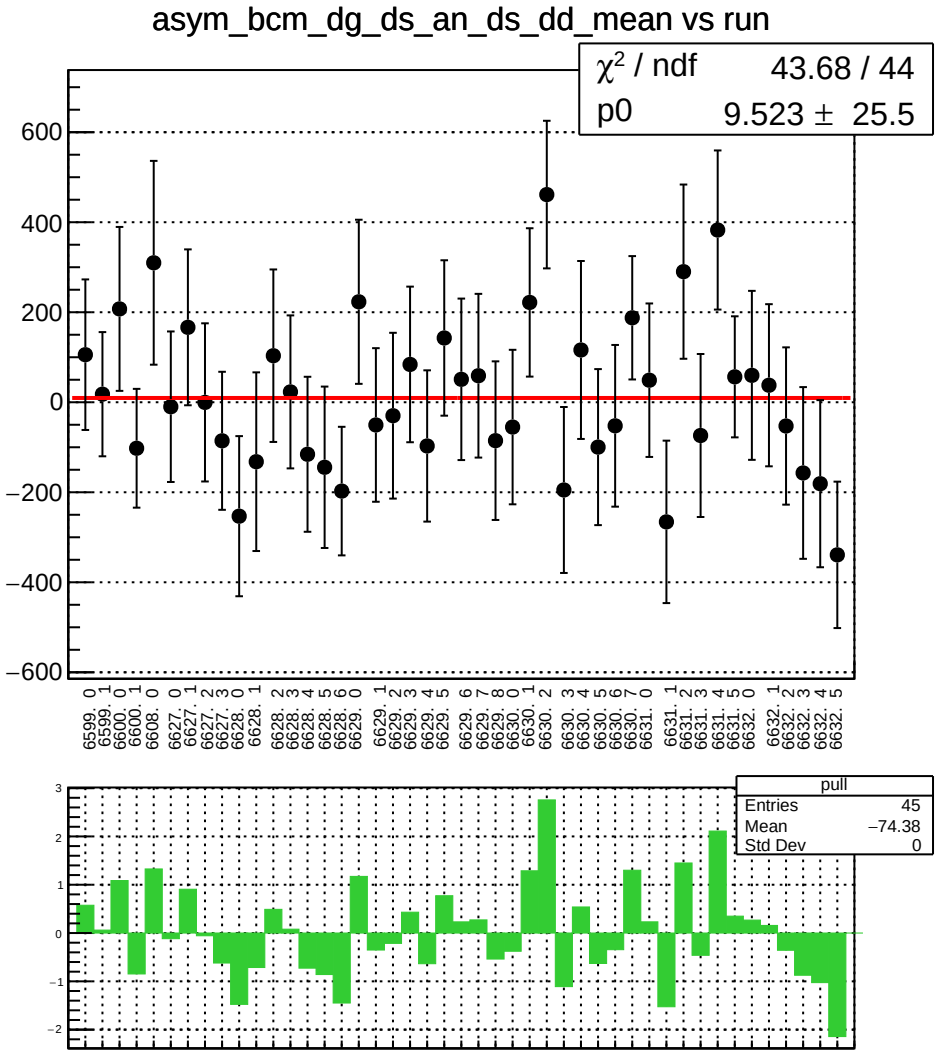

pull1D
Entries 45
Mean 0.02155
Std Dev 1.012

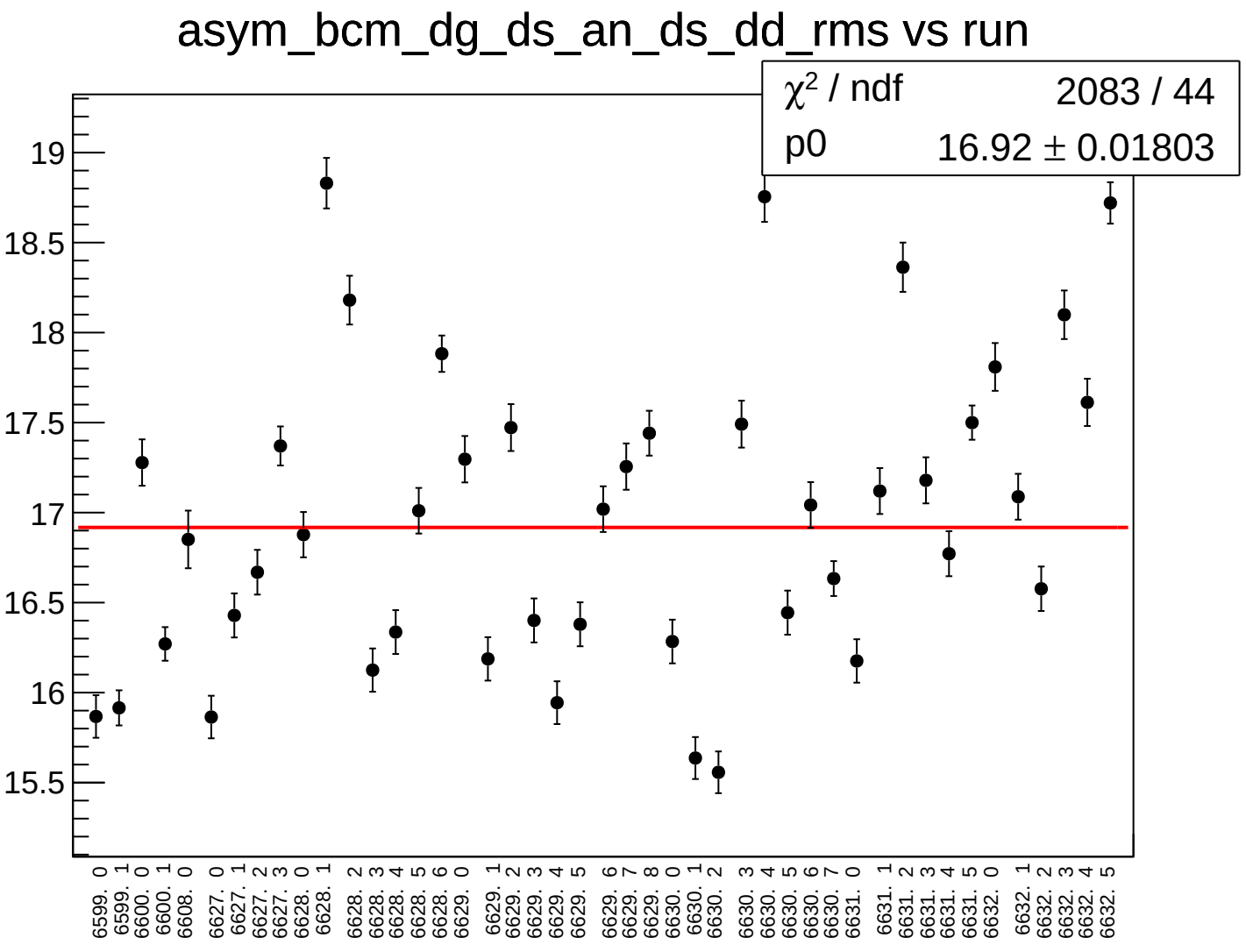

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 653.8 / 44
p0 22.03 ± 0.02346
24.5
24
23.5
23
22.5
22
21.5
21
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

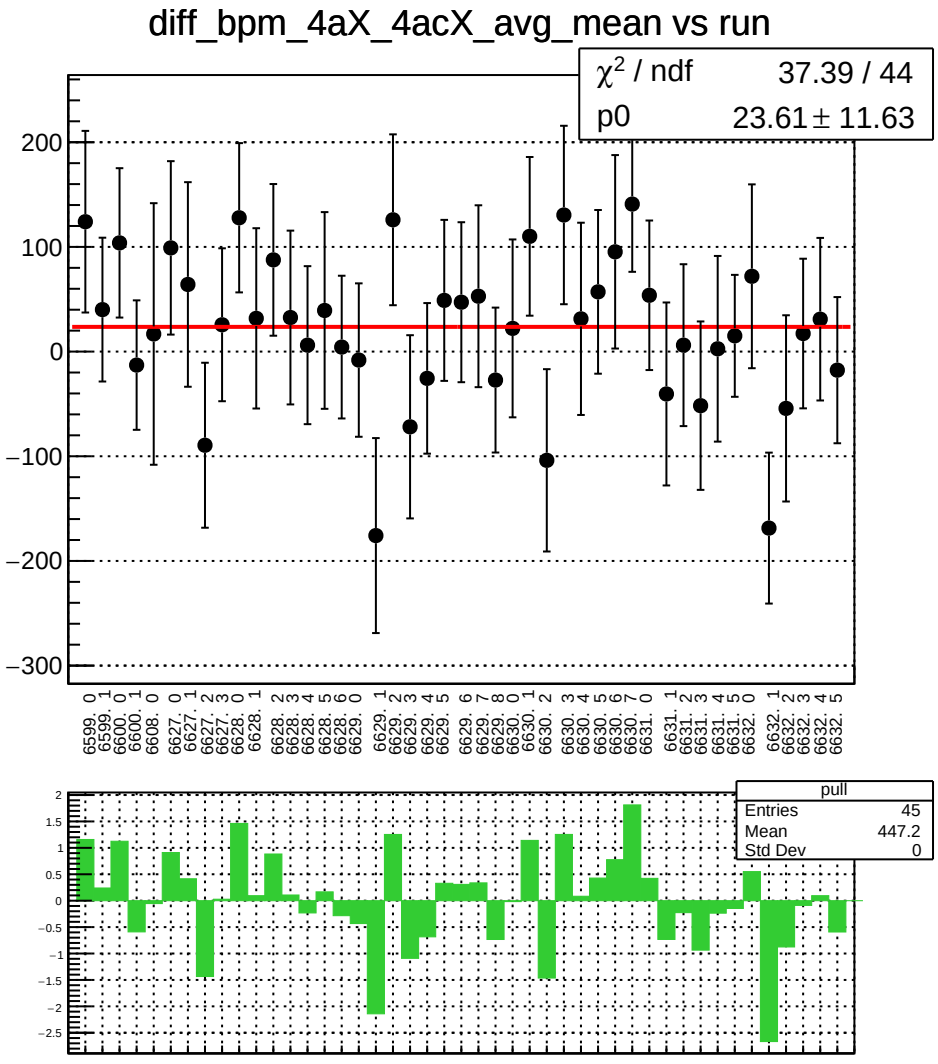

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 24.02 / 44
p0 180 ± 338.5
pull
Entries 45
Mean 19.8
Std Dev 0

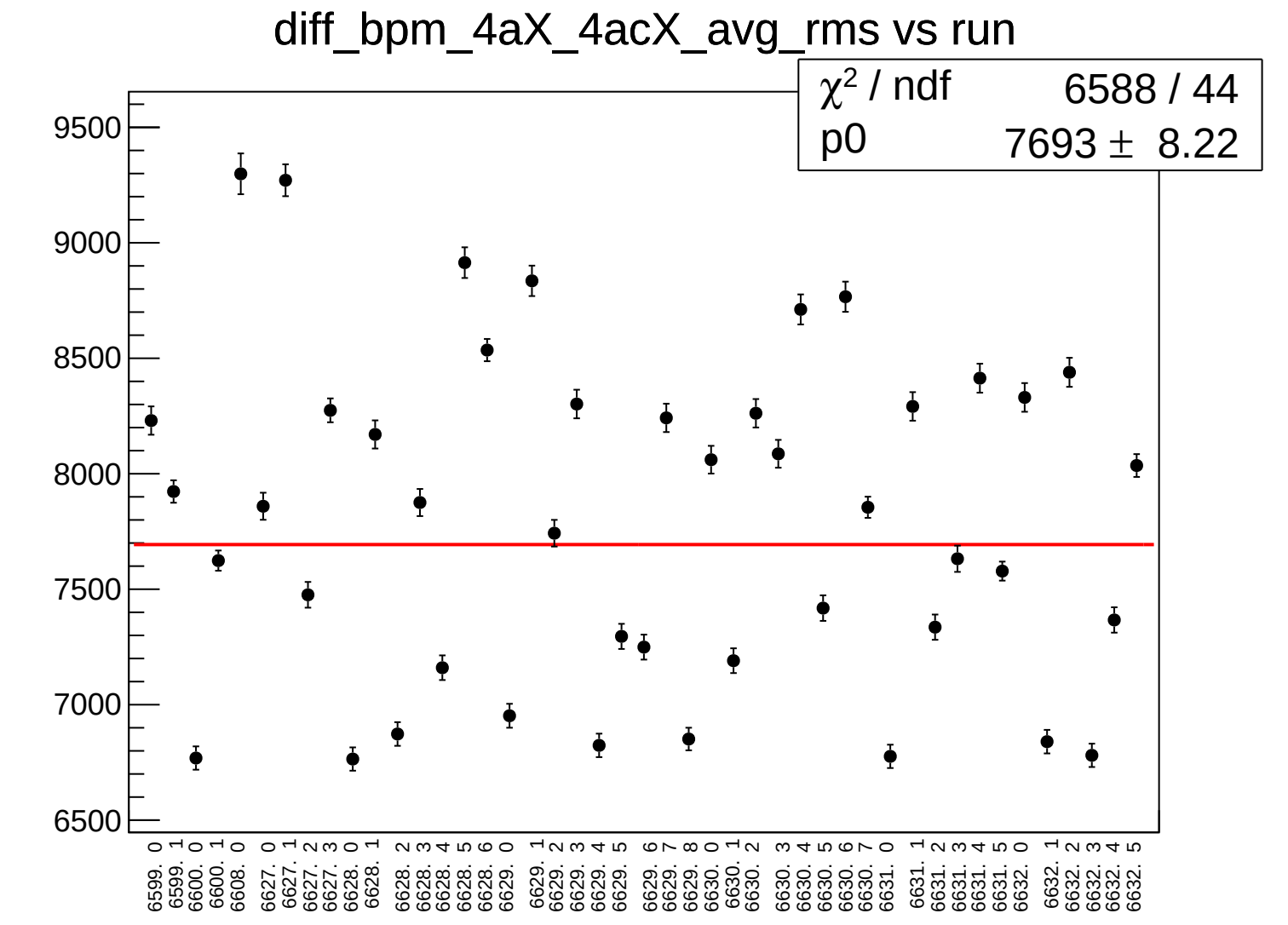

pull1D
Entries 45
Mean 0.01619
Std Dev 0.7304

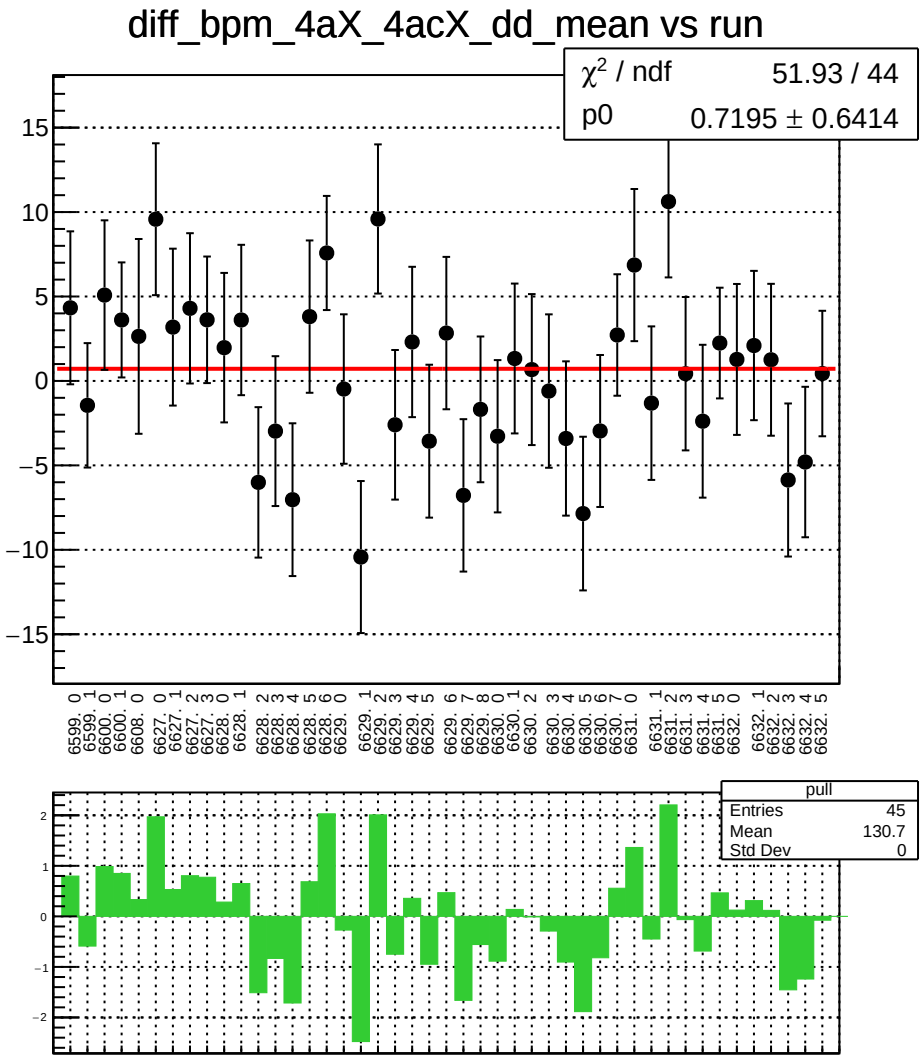

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 1.6e+04 / 44
p0 222.8 ± 0.2393
450
400
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

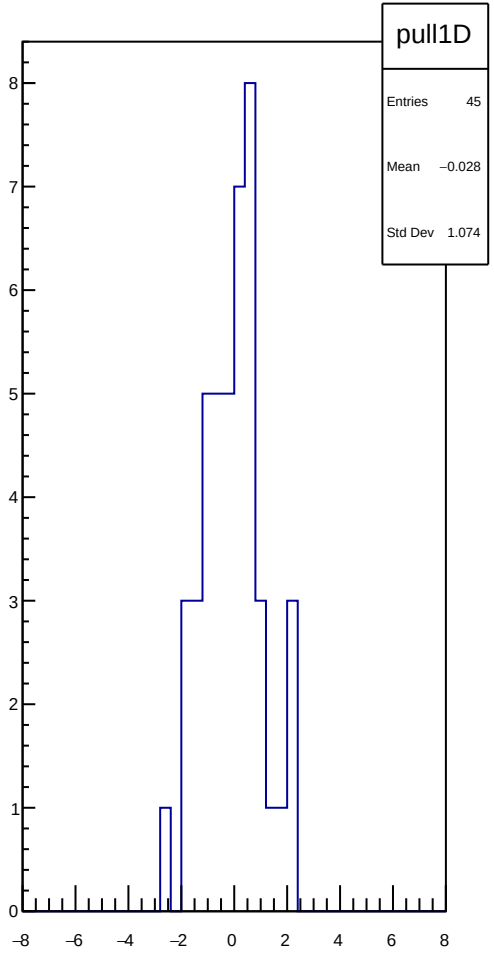

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 43.68 / 44
p0 9.523 ± 25.5
600
400
200
0
−200
−400
−600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −74.38
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.008997
Std Dev 0.9852
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

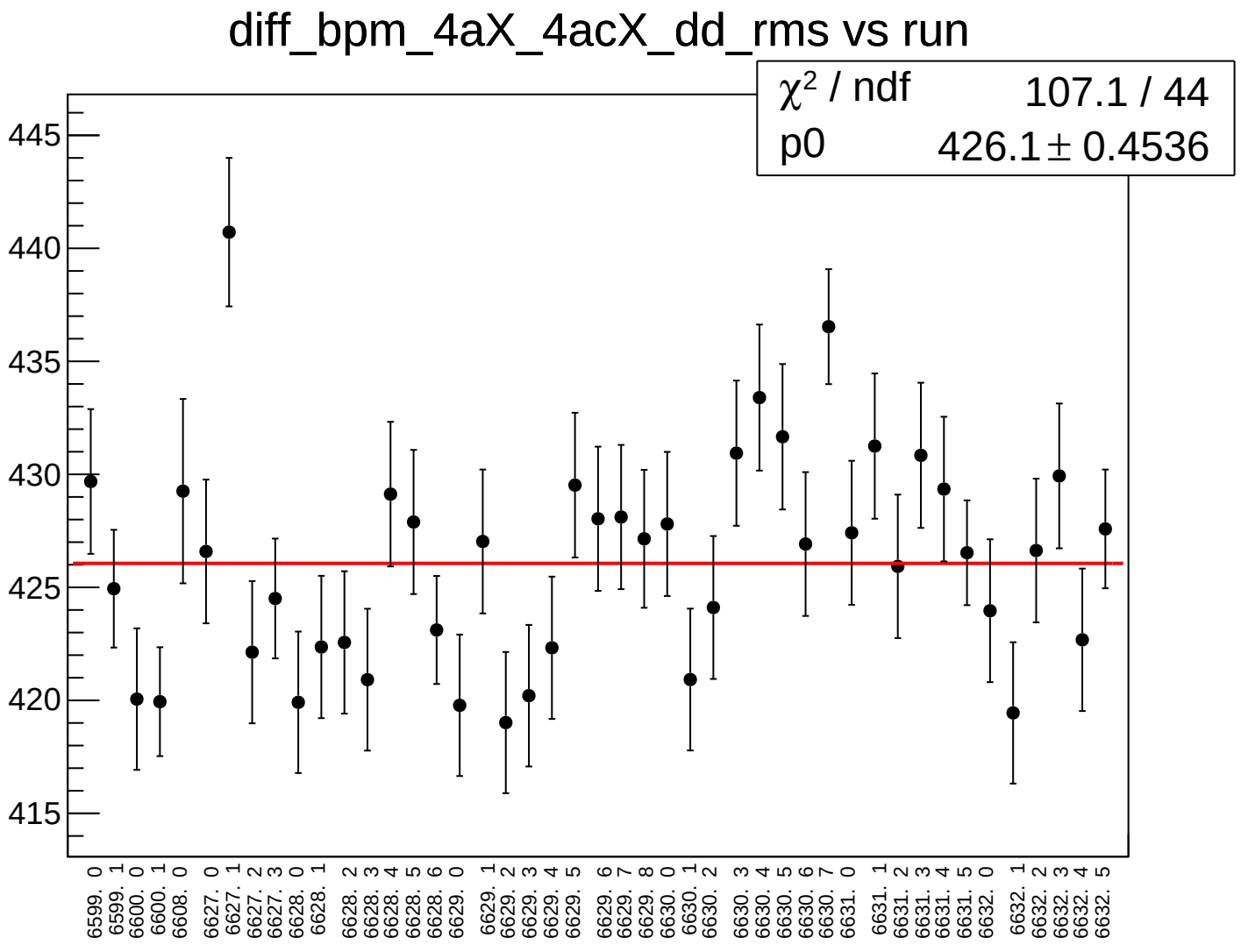

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 2083 / 44
p0 16.92 ± 0.01803
19
18.5
18
17.5
17
16.5
16
15.5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 37.39 / 44
p0 23.61 ± 11.63
200
100
0
−100
−200
−300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 447.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.006221
Std Dev 0.9116
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 6588 / 44
p0 7693 ± 8.22
9500
9000
8500
8000
7500
7000
6500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 51.93 / 44
p0 0.7195 ± 0.6414
15
10
5
0
−5
−10
−15
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 130.7
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.028
Std Dev 1.074
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 107.1 / 44
p0 426.1 ± 0.4536
445
440
435
430
425
420
415
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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6632. 2
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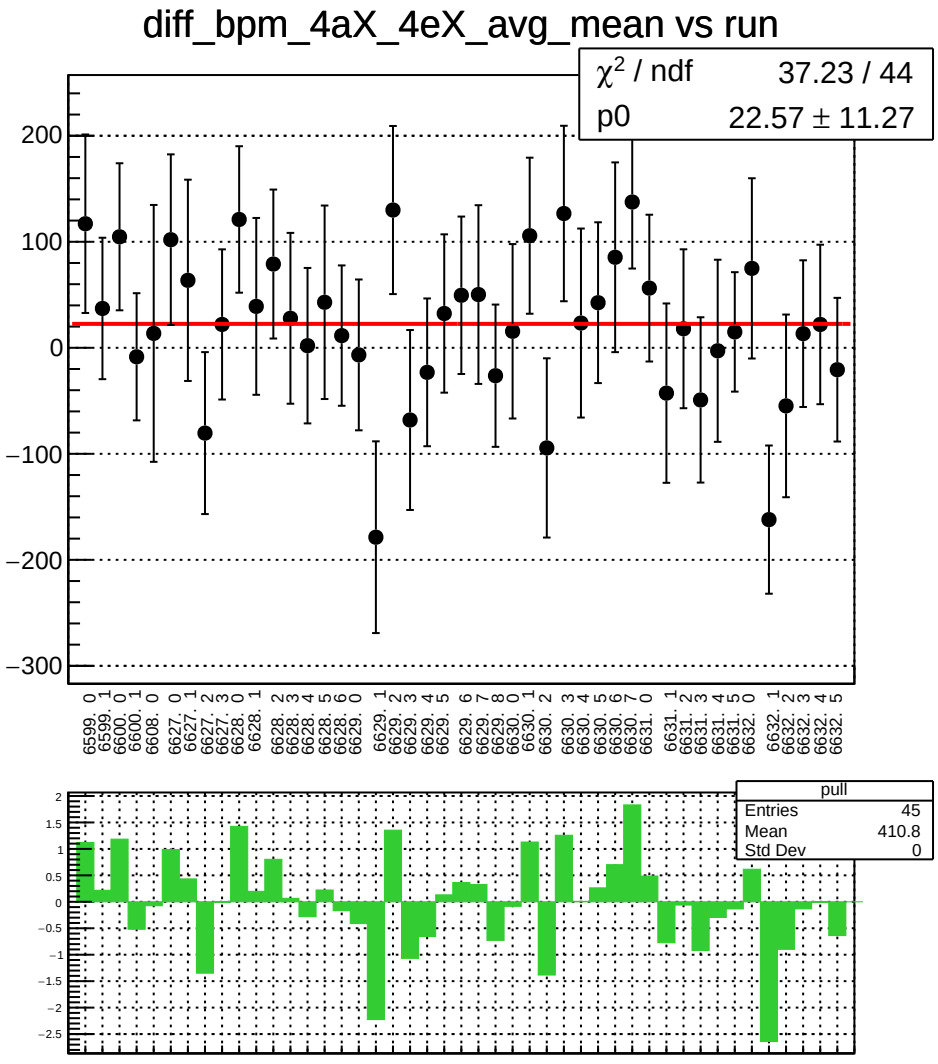
6632. 5


diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 37.23 / 44
p0 22.57 ± 11.27
200
100
0
−100
−200
−300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
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6629. 6
6629. 7
6629. 8
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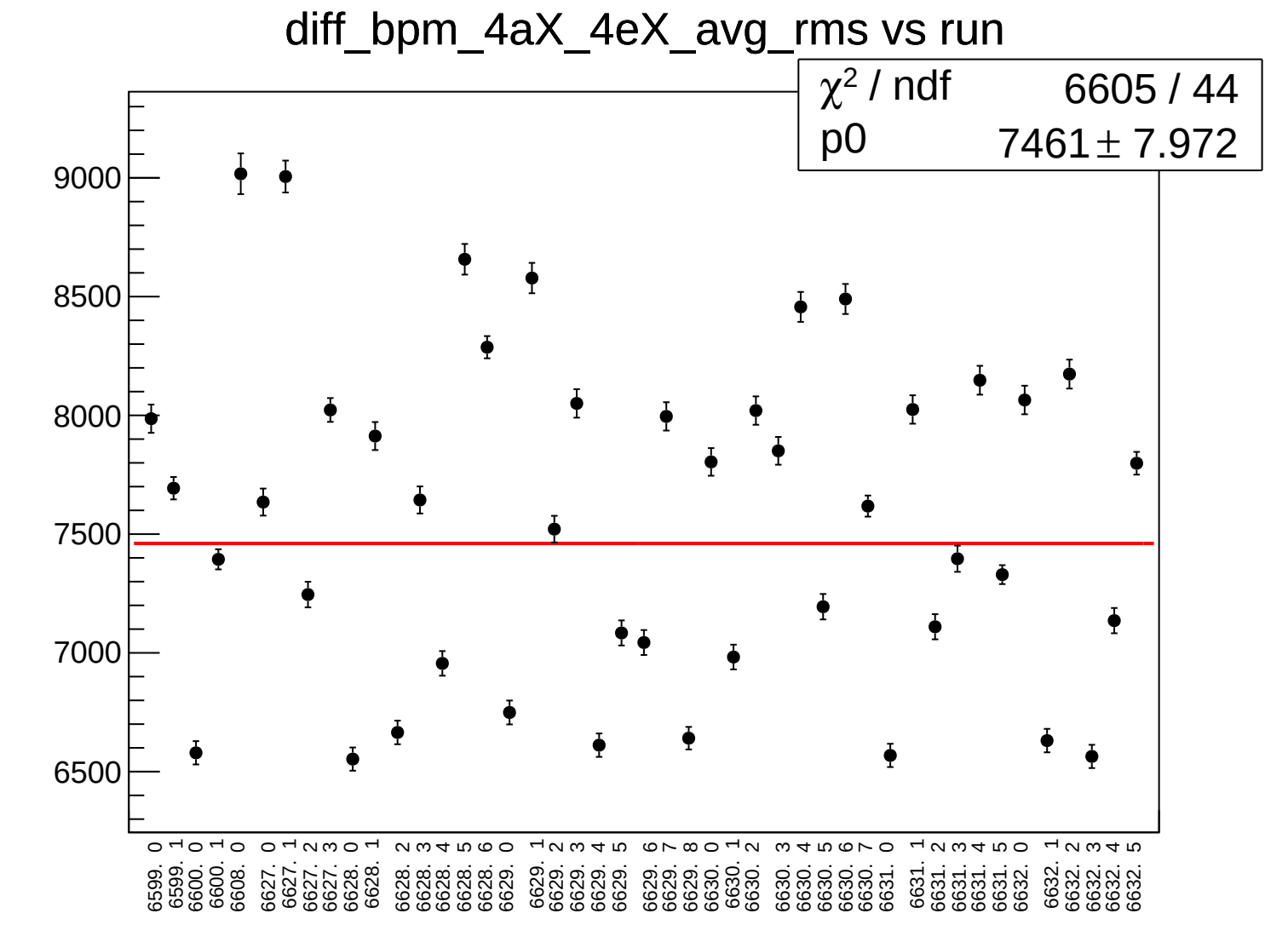
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 410.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.007192
Std Dev 0.9096
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 6605 / 44
p0 7461 ± 7.972
9000
8500
8000
7500
7000
6500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
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6628. 4
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6628. 6
6629. 0
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6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
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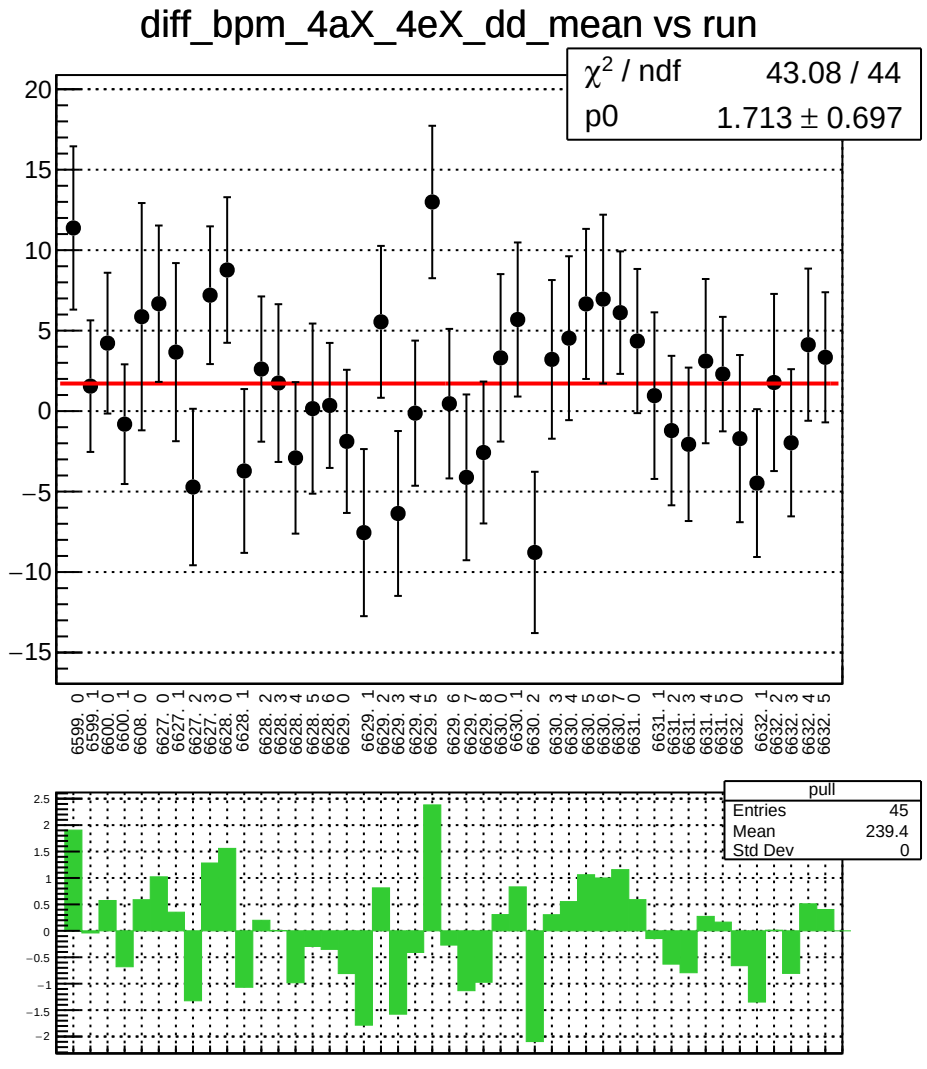
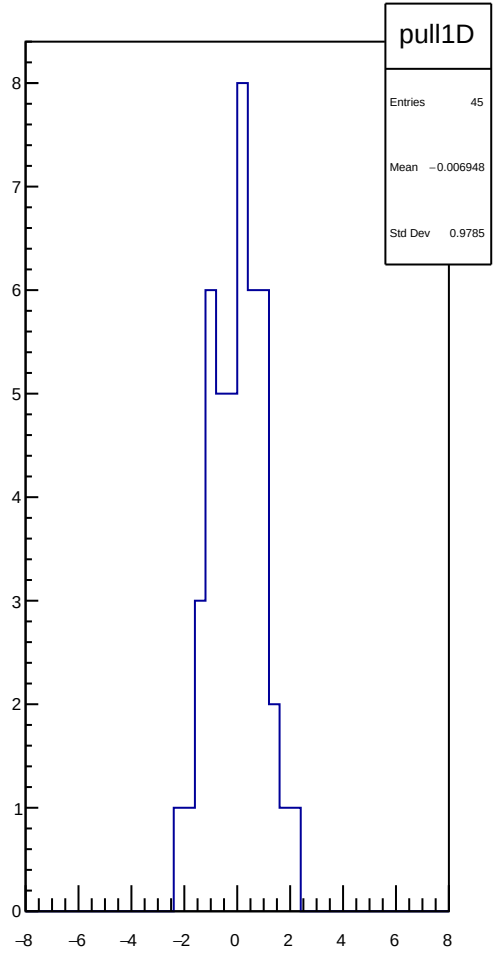
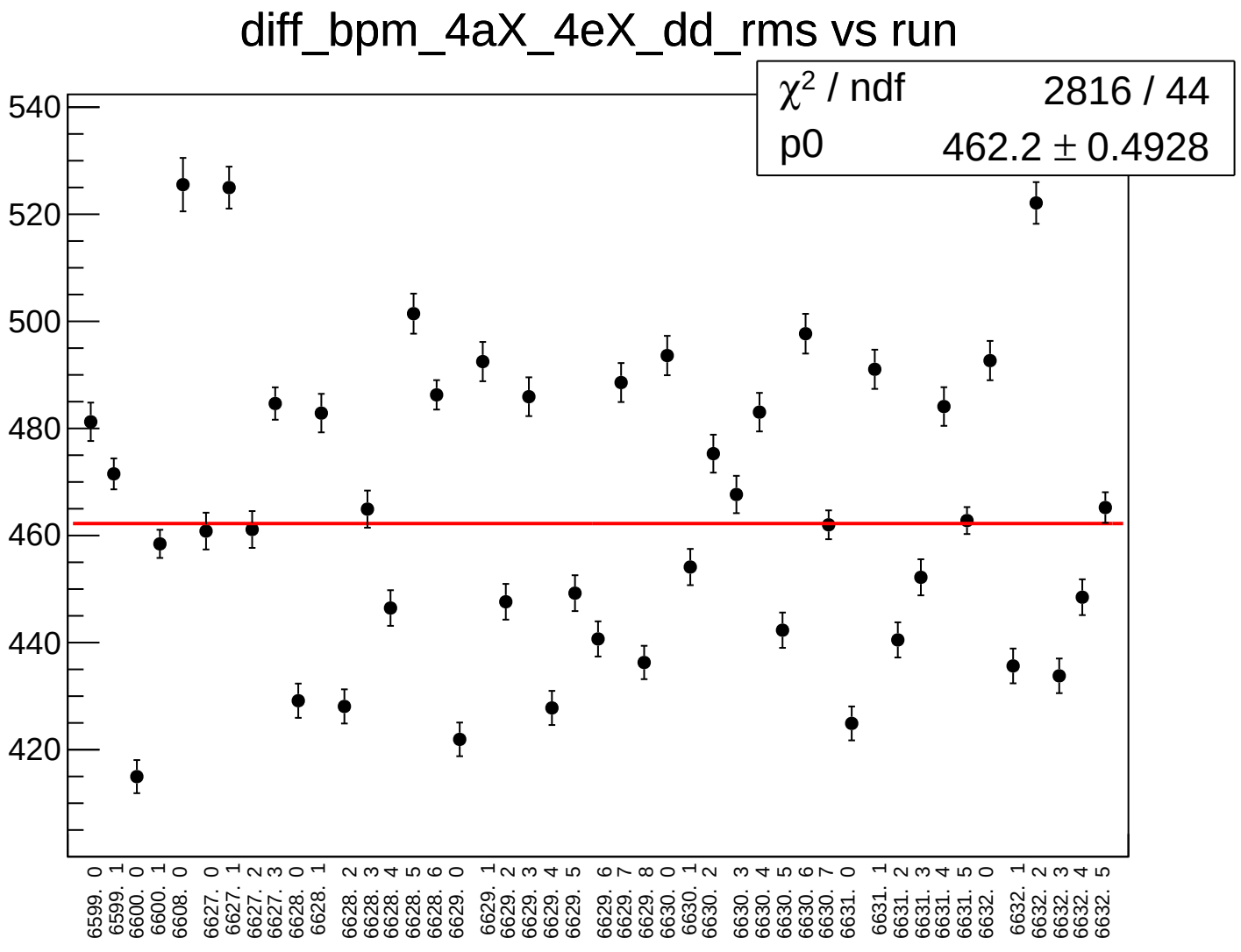
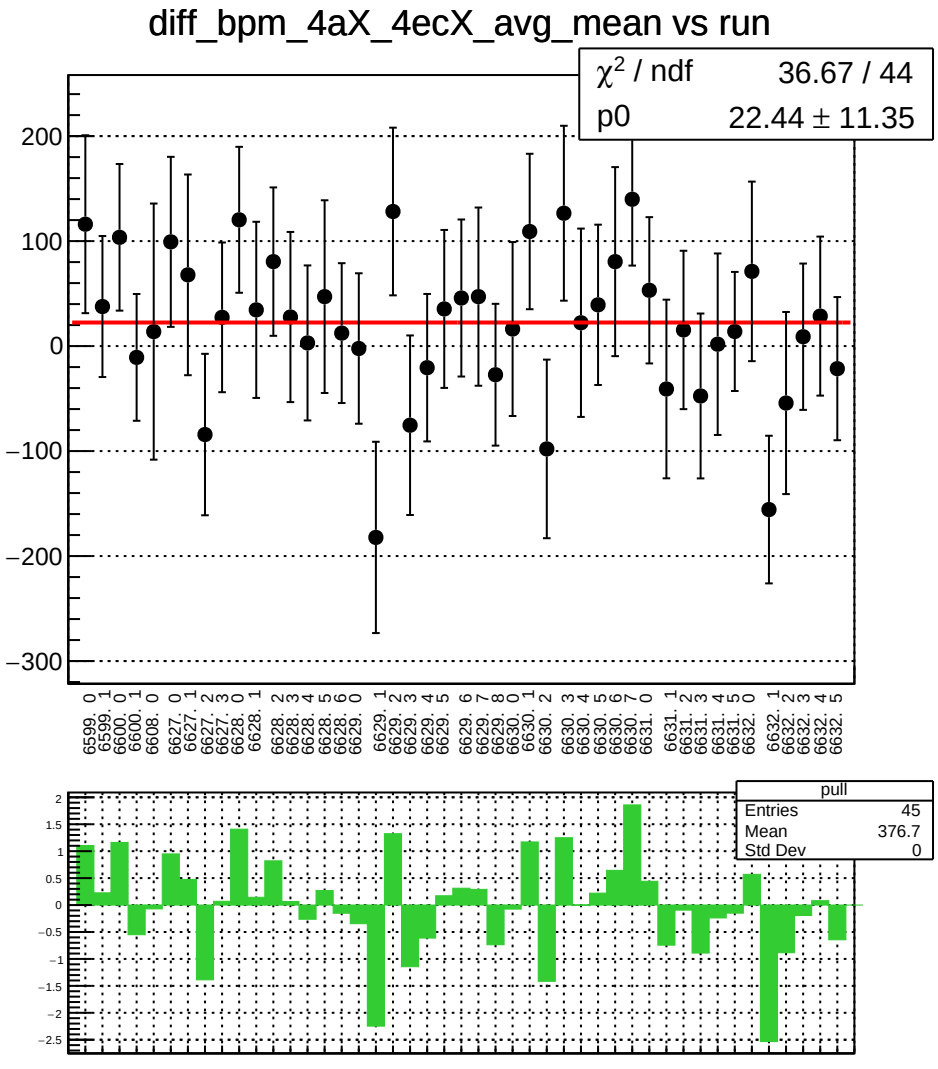
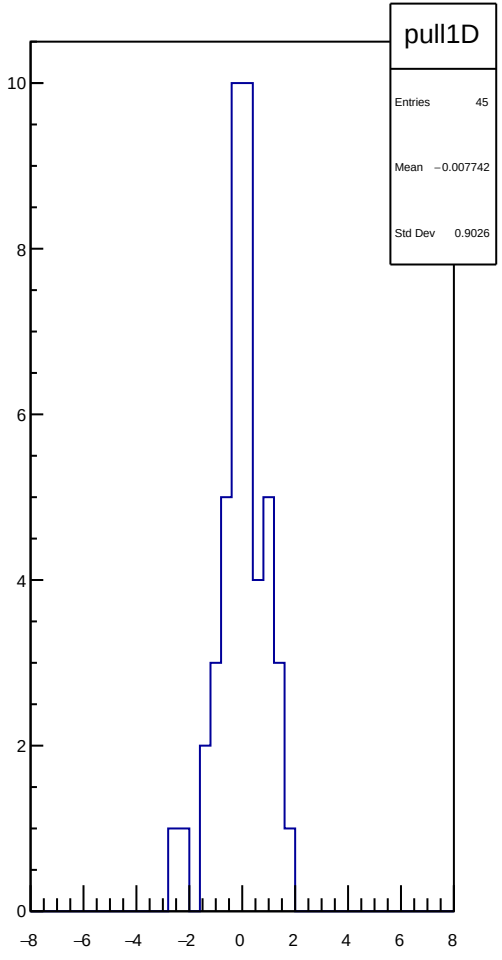
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

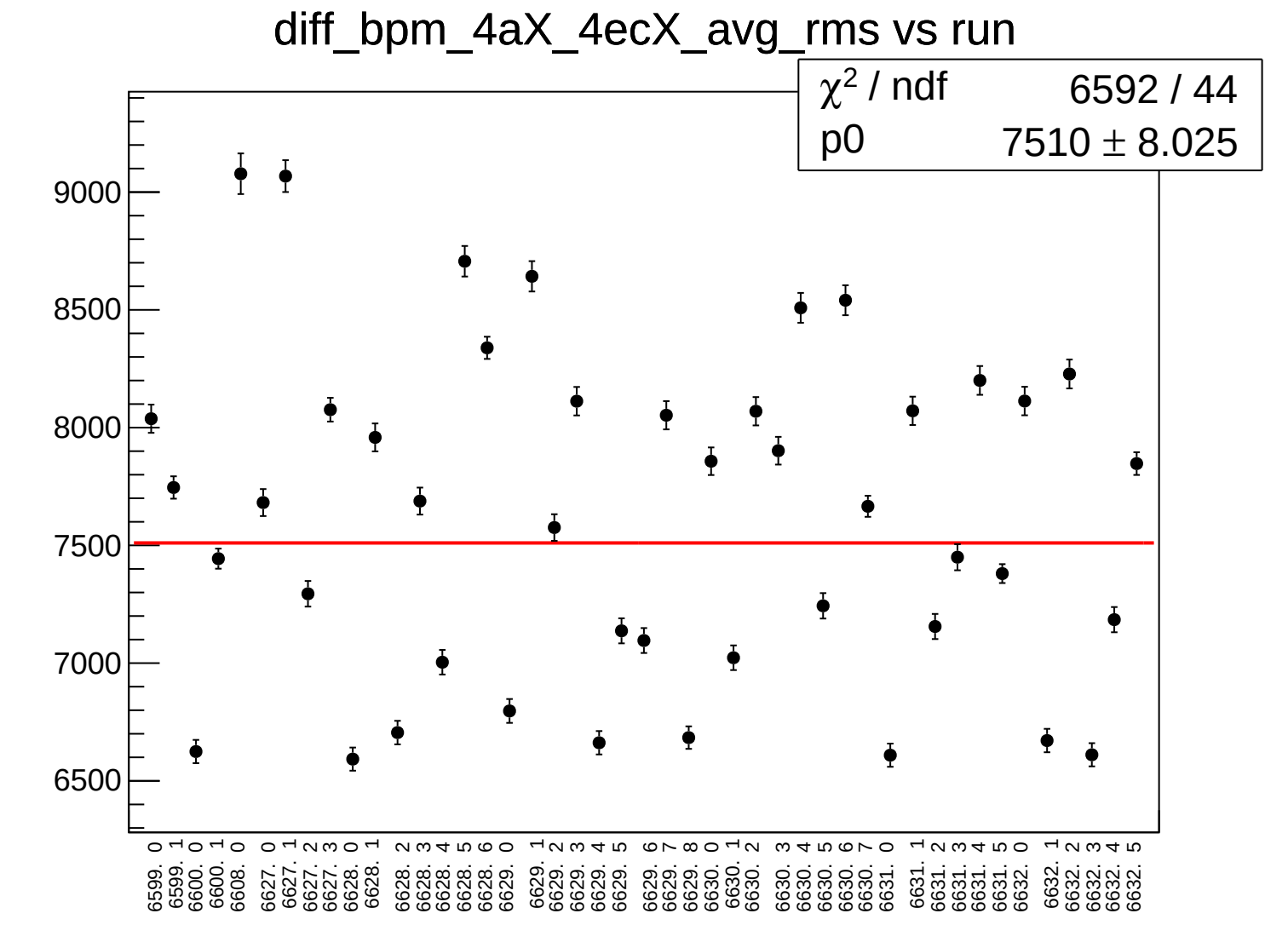

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 43.08 / 44
p0 1.713 ± 0.697
pull
Entries 45
Mean 239.4
Std Dev 0

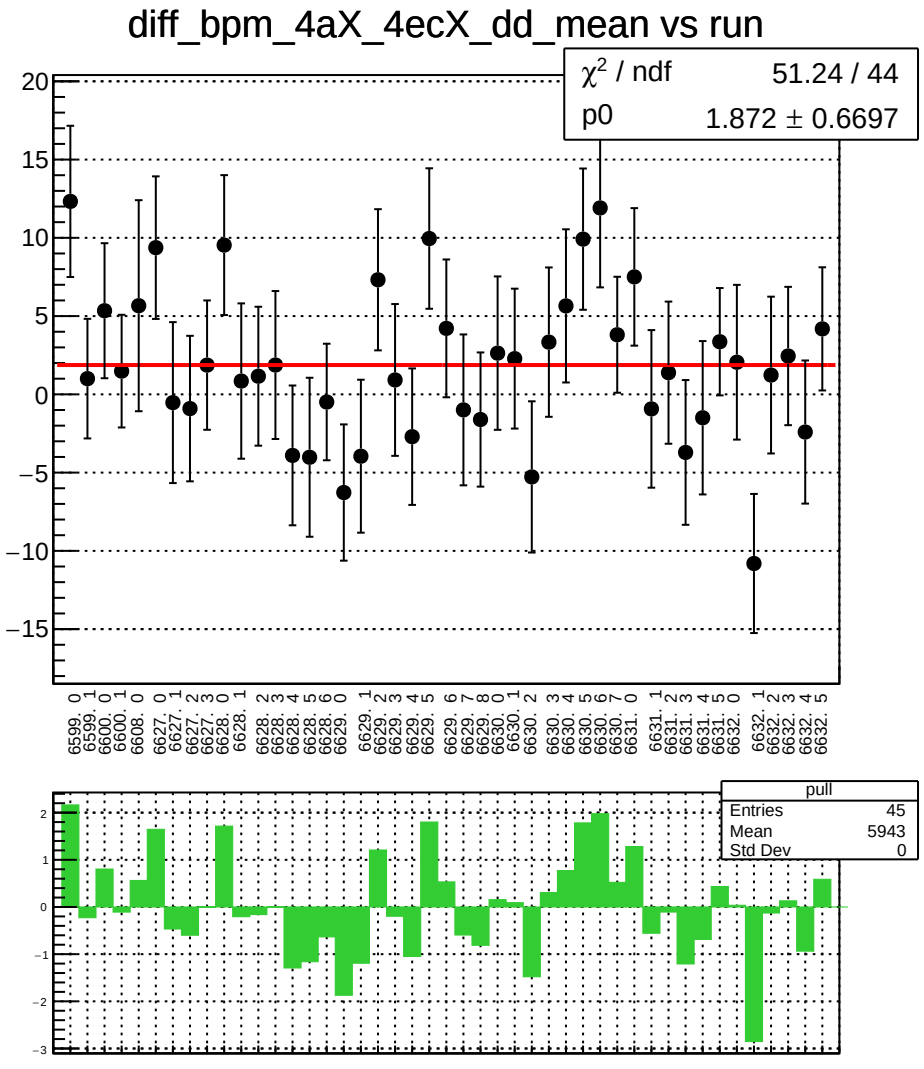

pull1D
Entries 45
Mean −0.006948
Std Dev 0.9785

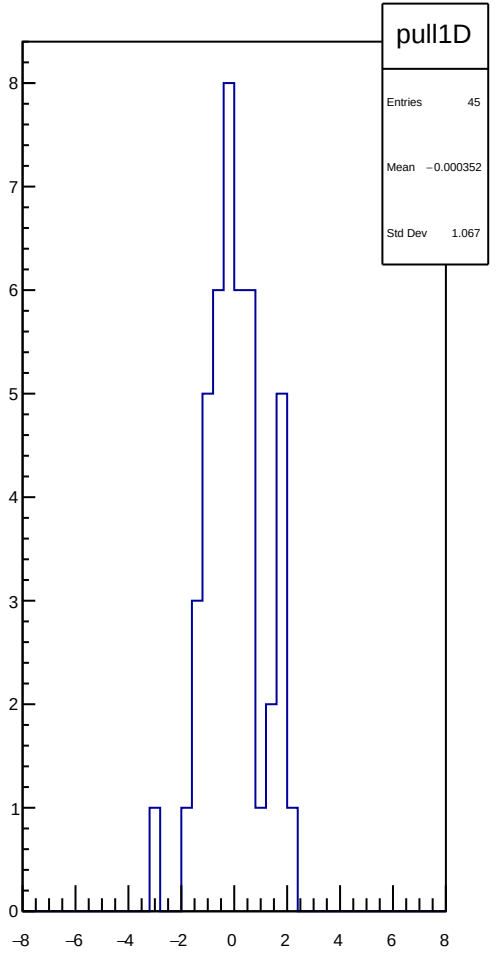

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 2816 / 44
p0 462.2 ± 0.4928
540
520
500
480
460
440
420
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

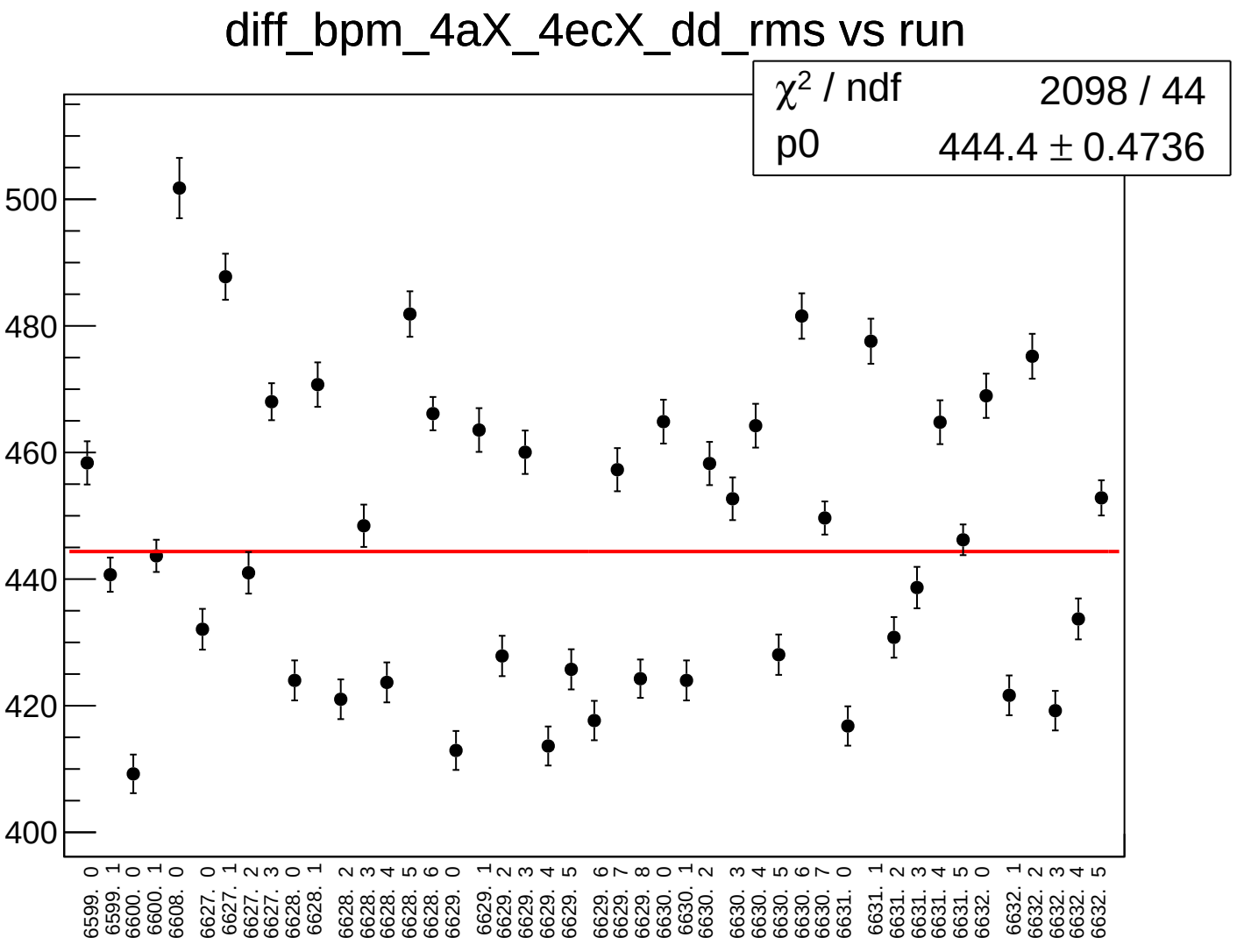

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 36.67 / 44
p0 22.44 ± 11.35
pull
Entries 45
Mean 376.7
Std Dev 0

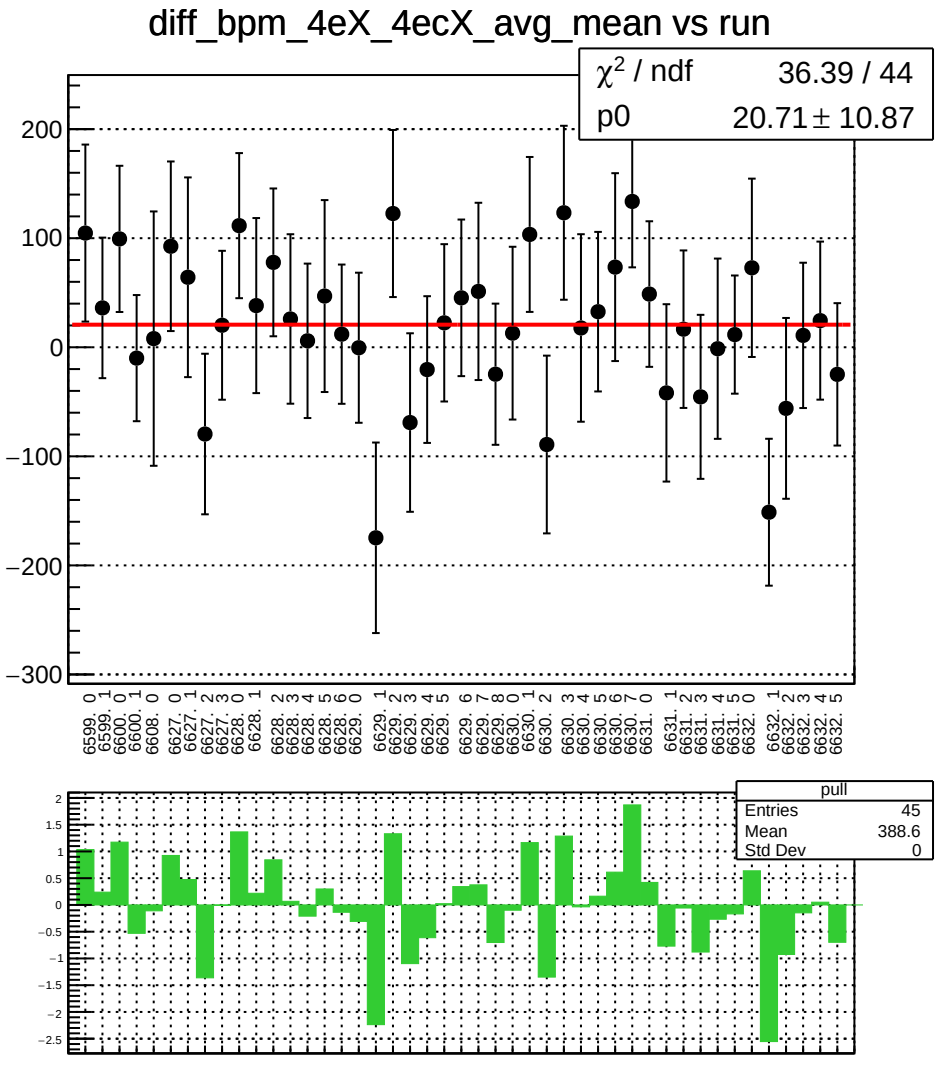

pull1D
Entries 45
Mean −0.007742
Std Dev 0.9026

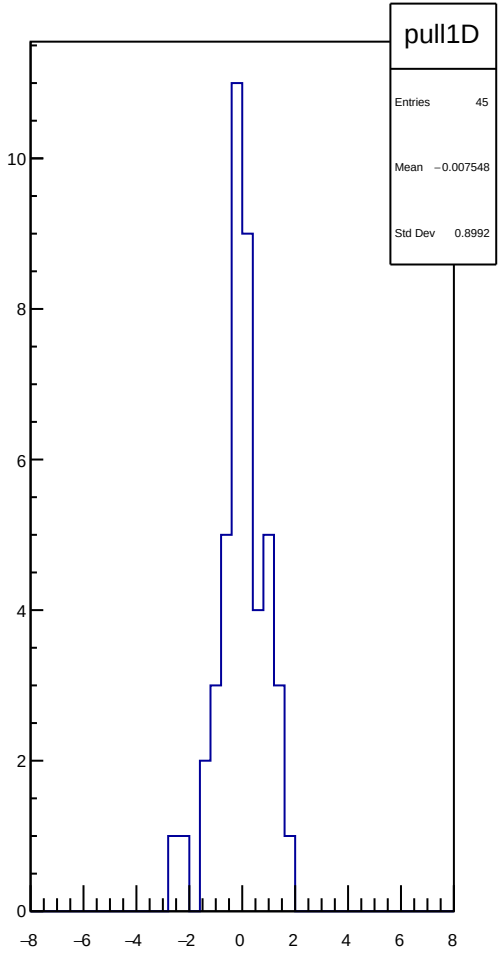

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 6592 / 44
p0 7510 ± 8.025
9000
8500
8000
7500
7000
6500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

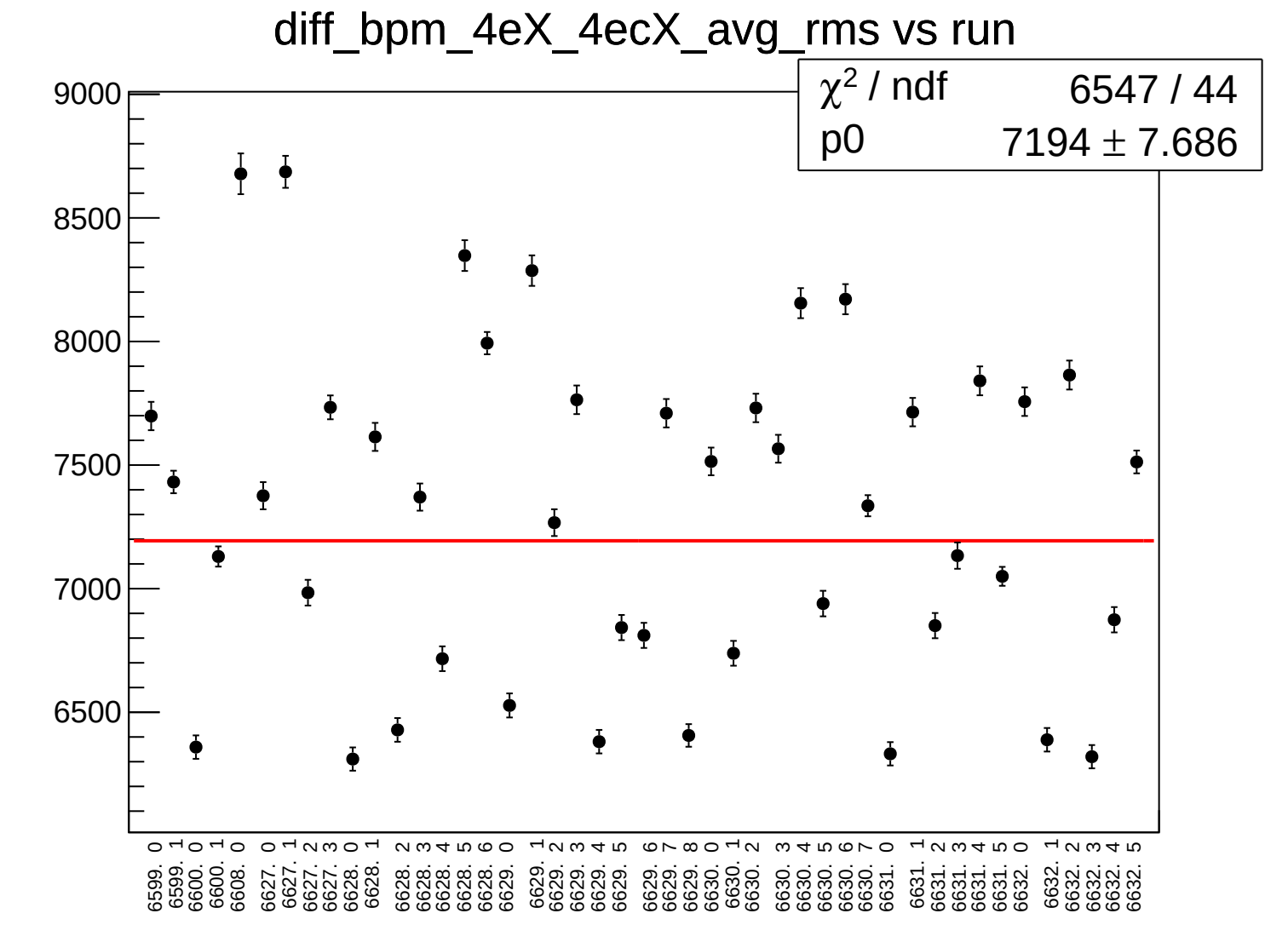

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 51.24 / 44
p0 1.872 ± 0.6697
pull
Entries 45
Mean 5943
Std Dev 0

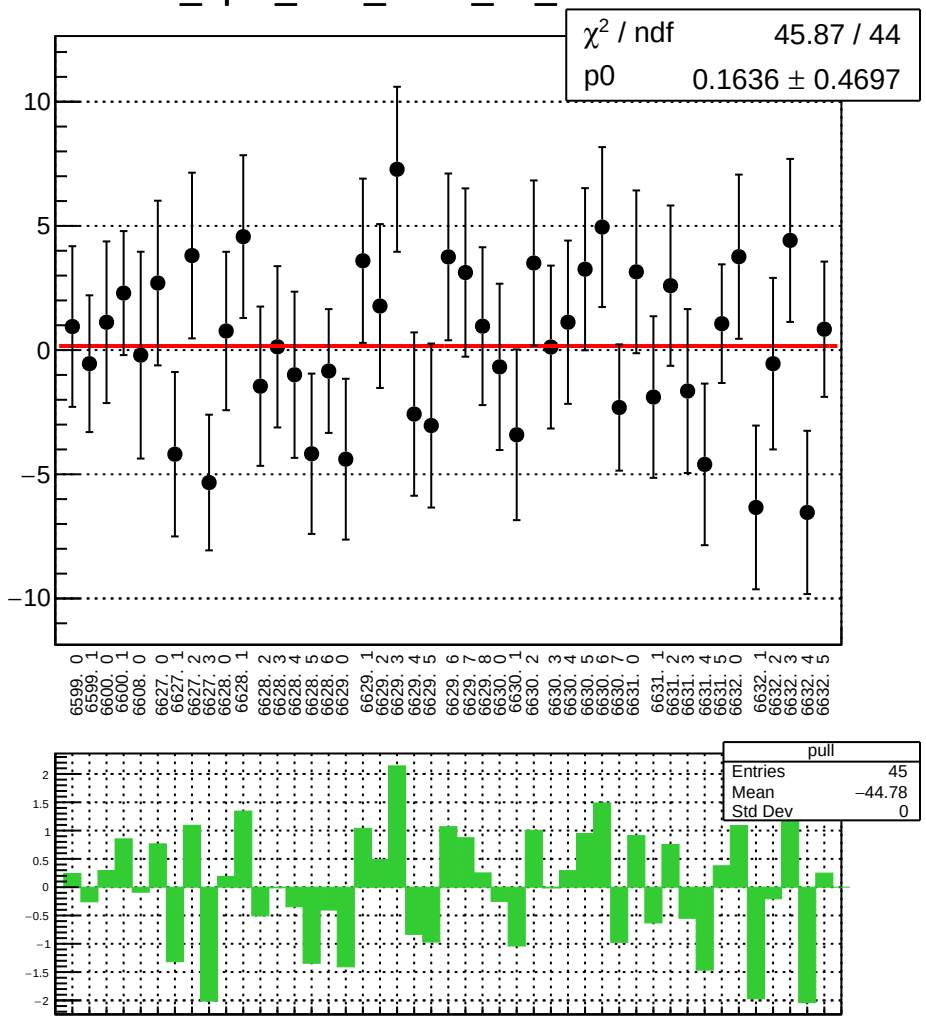

pull1D
Entries 45
Mean −0.000352
Std Dev 1.067

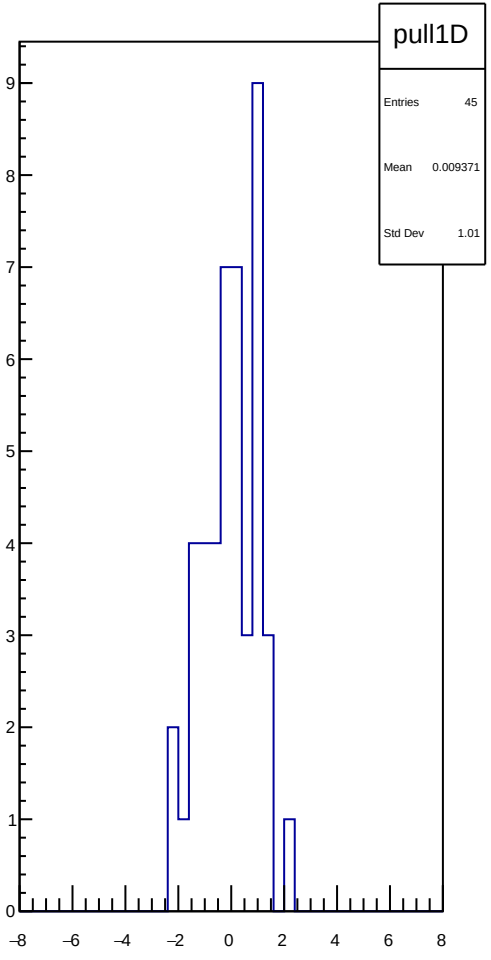

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 2098 / 44
p0 444.4 ± 0.4736
500
480
460
440
420
400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

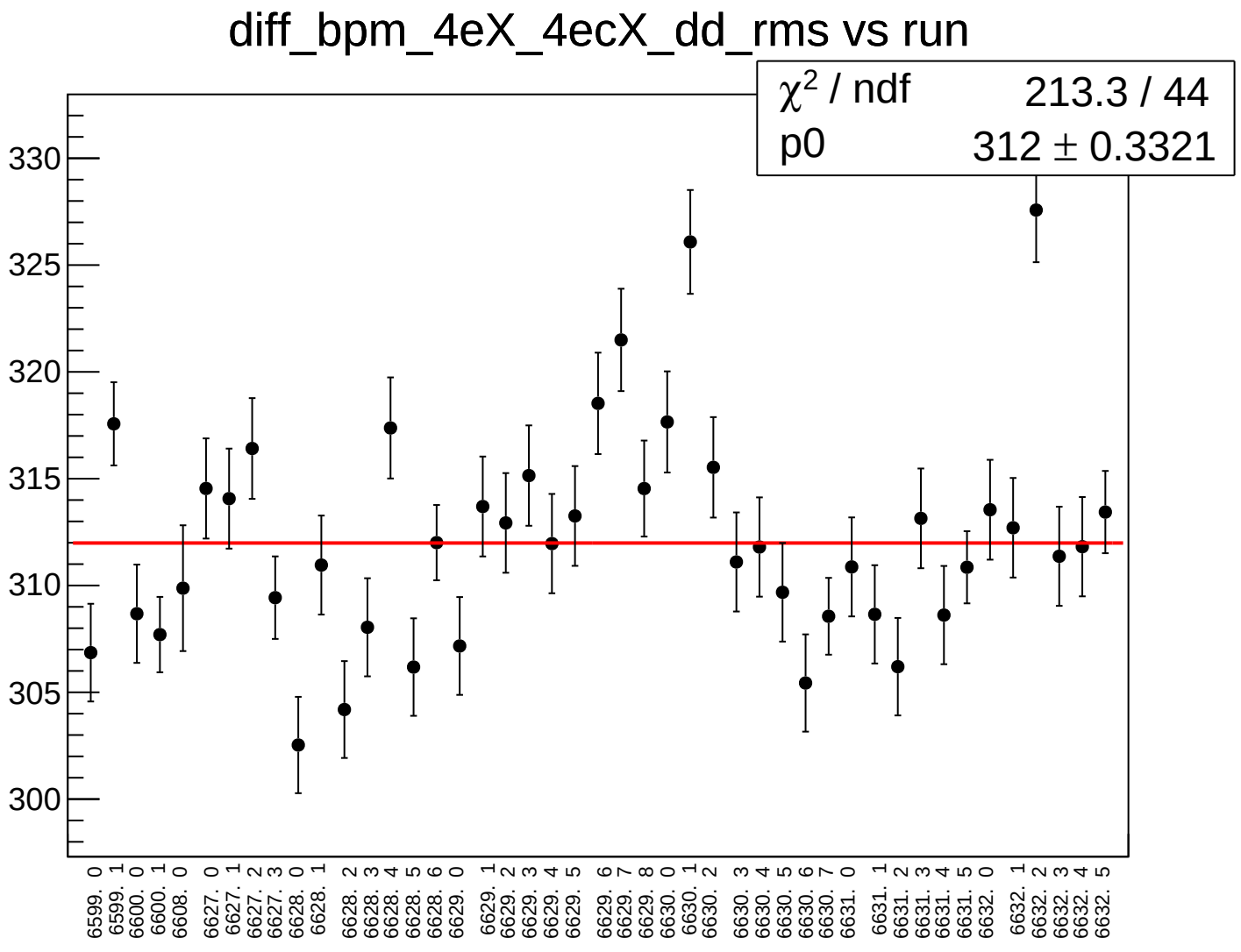

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 36.39 / 44
p0 20.71 ± 10.87
200
100
0
−100
−200
−300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 388.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

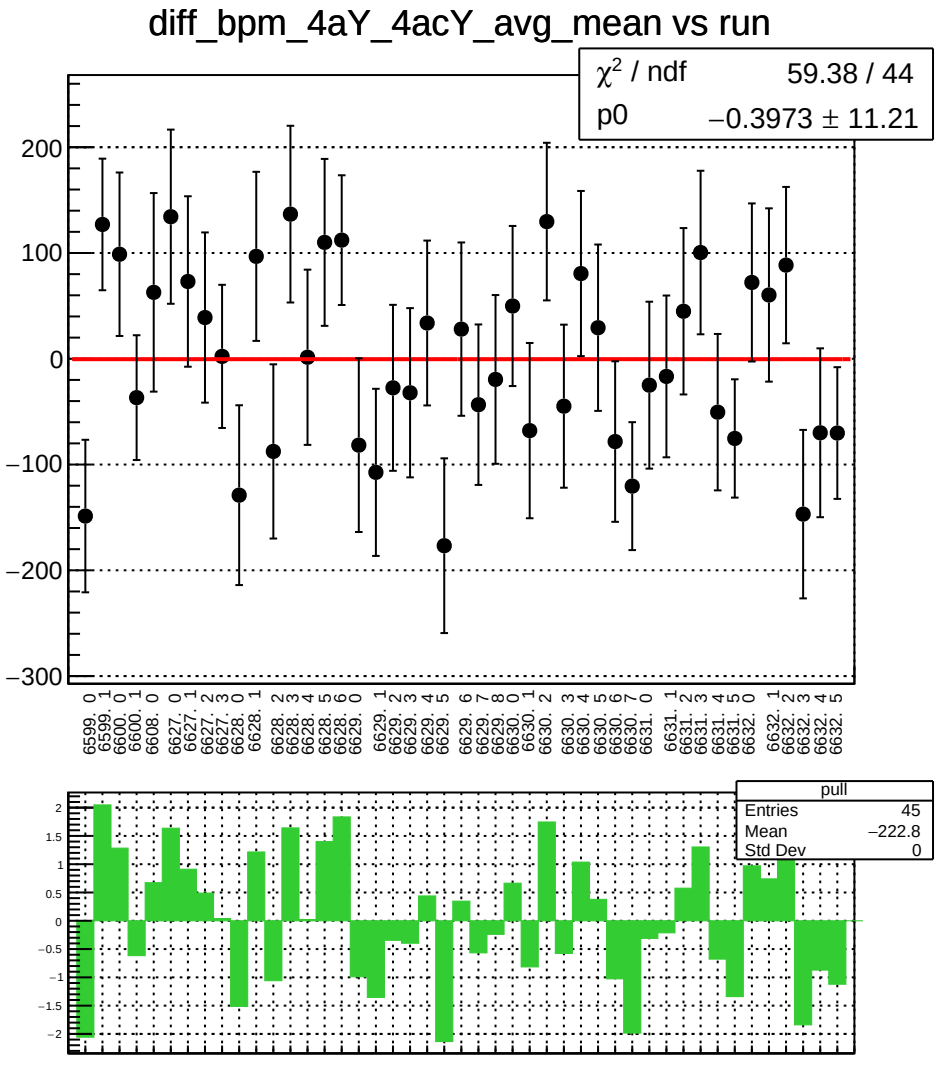

pull1D
Entries 45
Mean −0.007548
Std Dev 0.8992
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

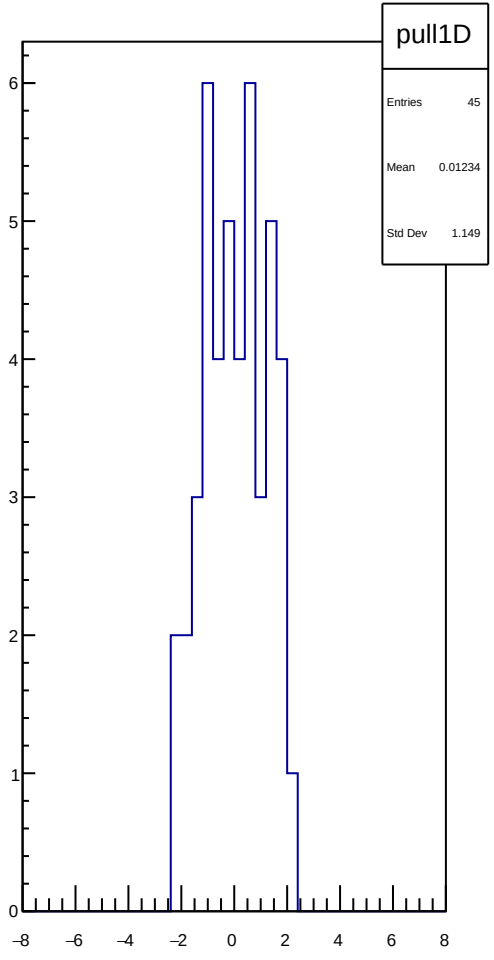

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 6547 / 44
p0 7194 ± 7.686
9000
8500
8000
7500
7000
6500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

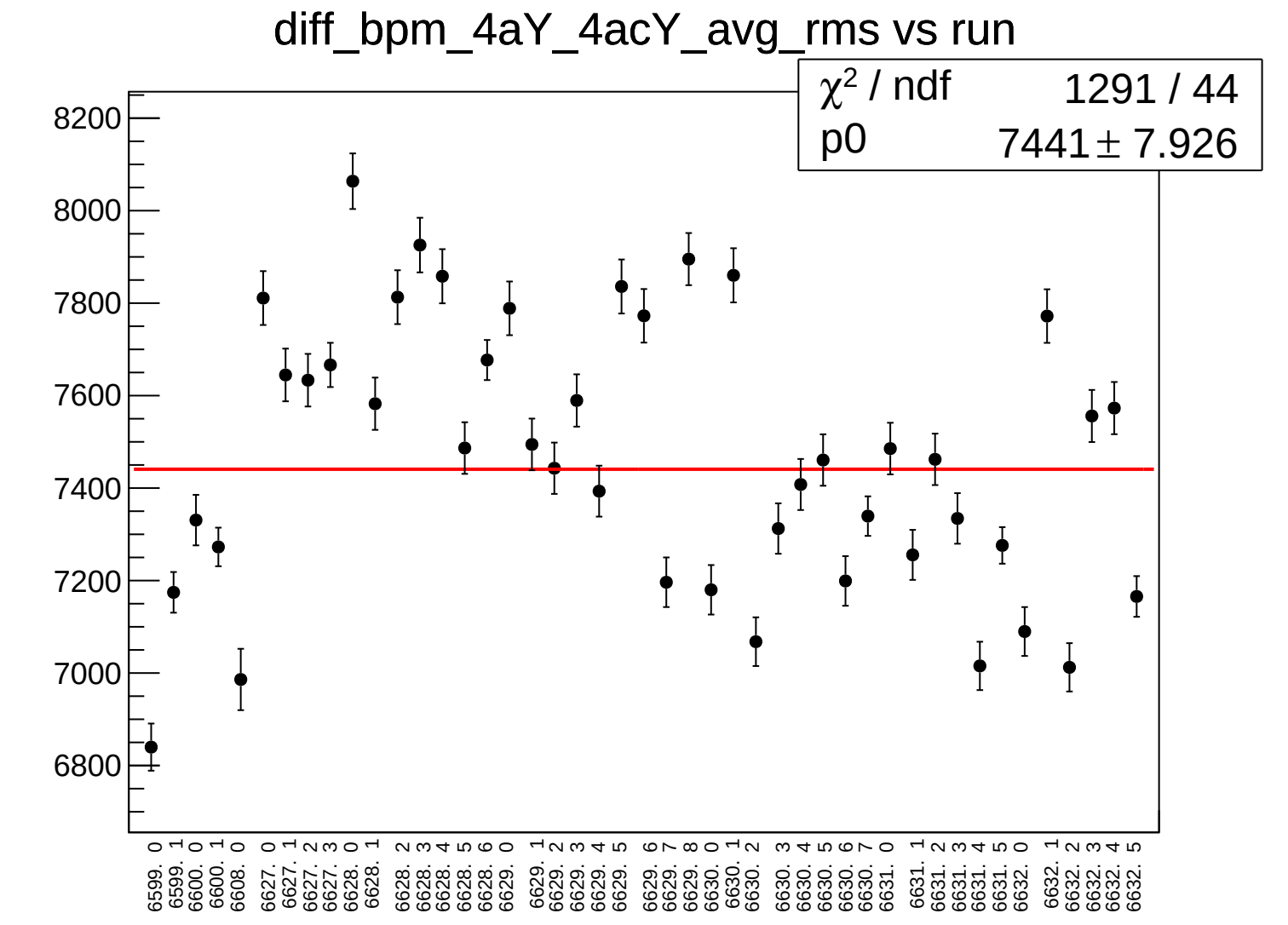

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 45.87 / 44
p0 0.1636 ± 0.4697
10
5
0
−5
−10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −44.78
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

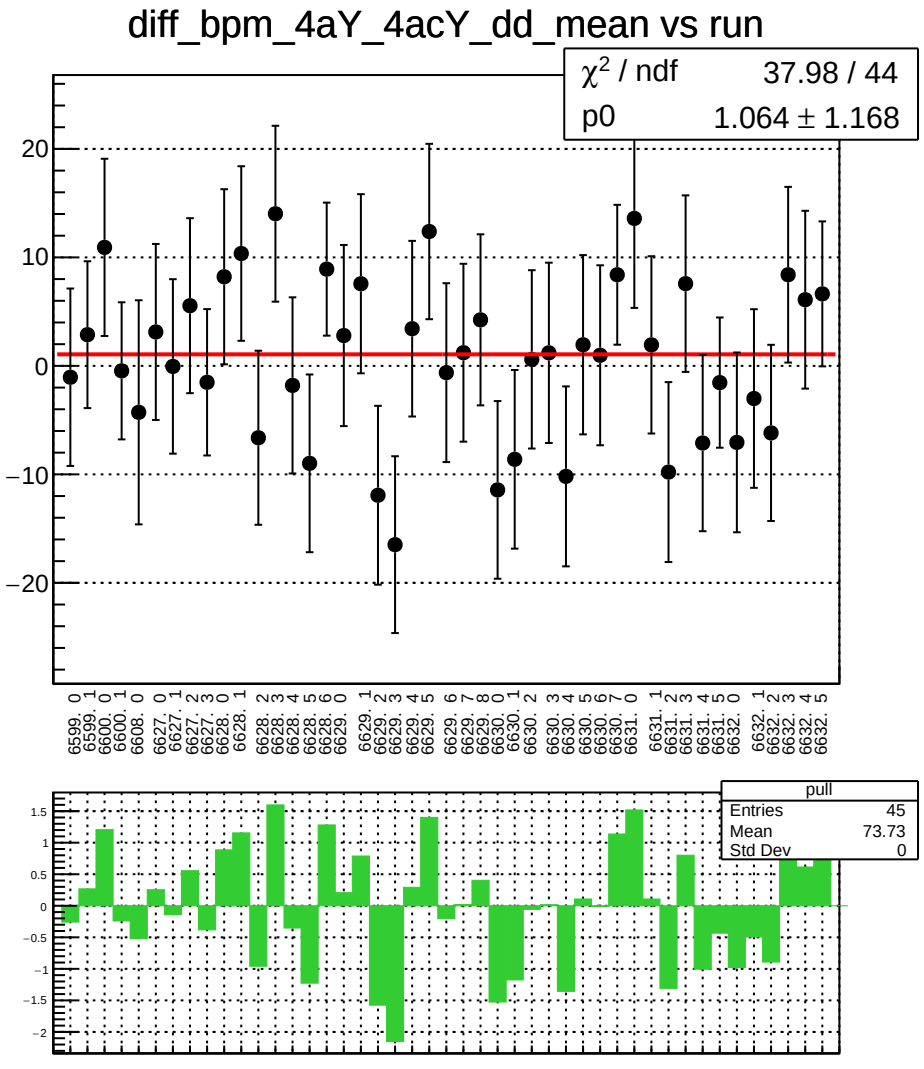

pull1D
Entries 45
Mean 0.009371
Std Dev 1.01
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

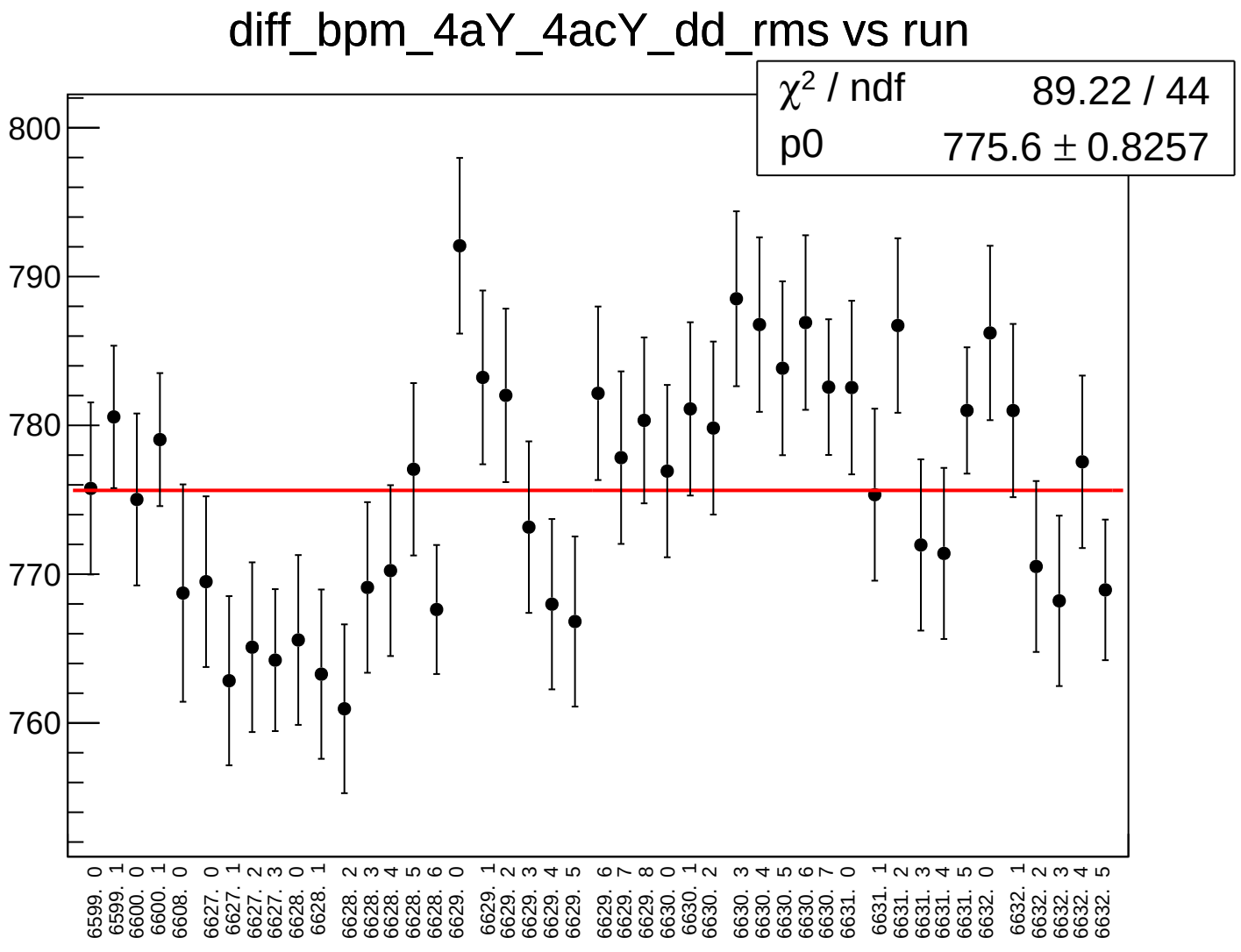

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 213.3 / 44
p0 312 ± 0.3321
330
325
320
315
310
305
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

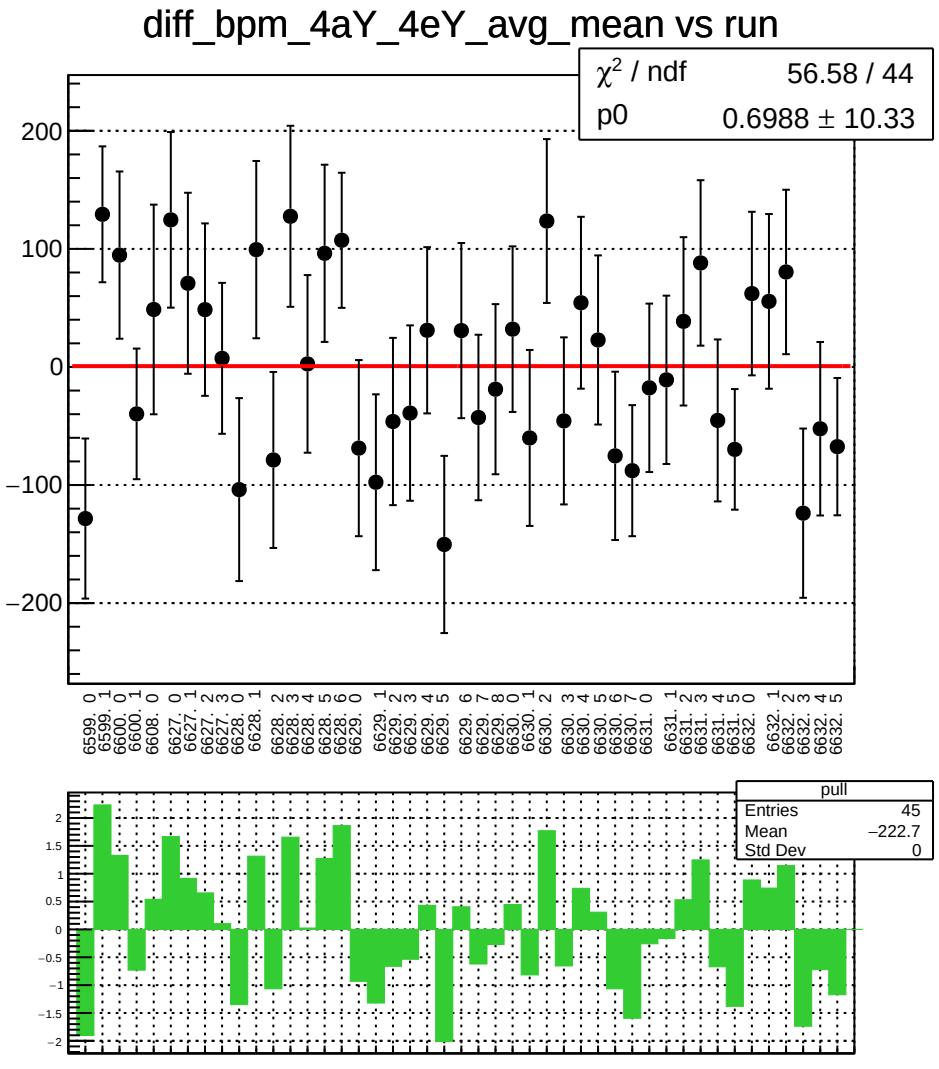

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 59.38 / 44
p0 −0.3973 ± 11.21
200
100
0
−100
−200
−300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −222.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

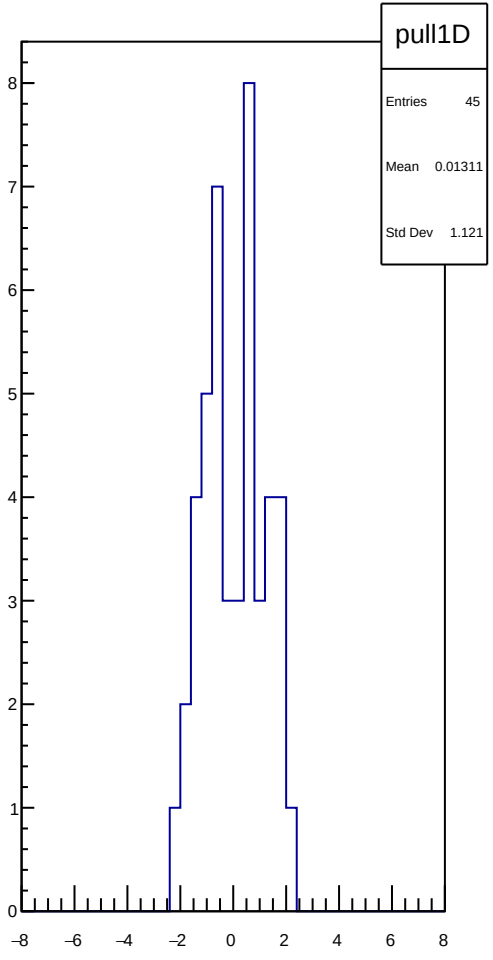

pull1D
Entries 45
Mean 0.01234
Std Dev 1.149
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

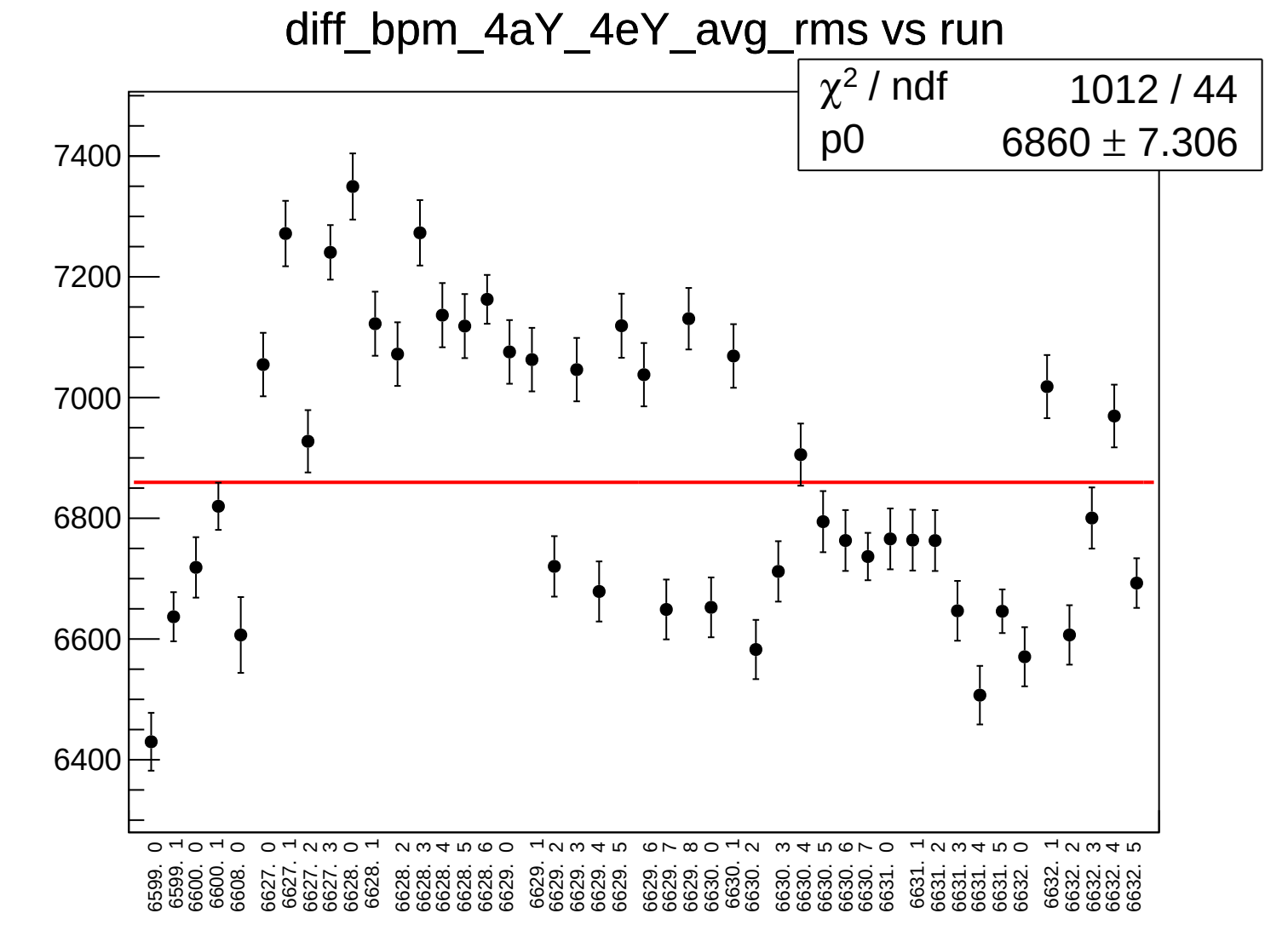

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 1291 / 44
p0 7441 ± 7.926
8200
8000
7800
7600
7400
7200
7000
6800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

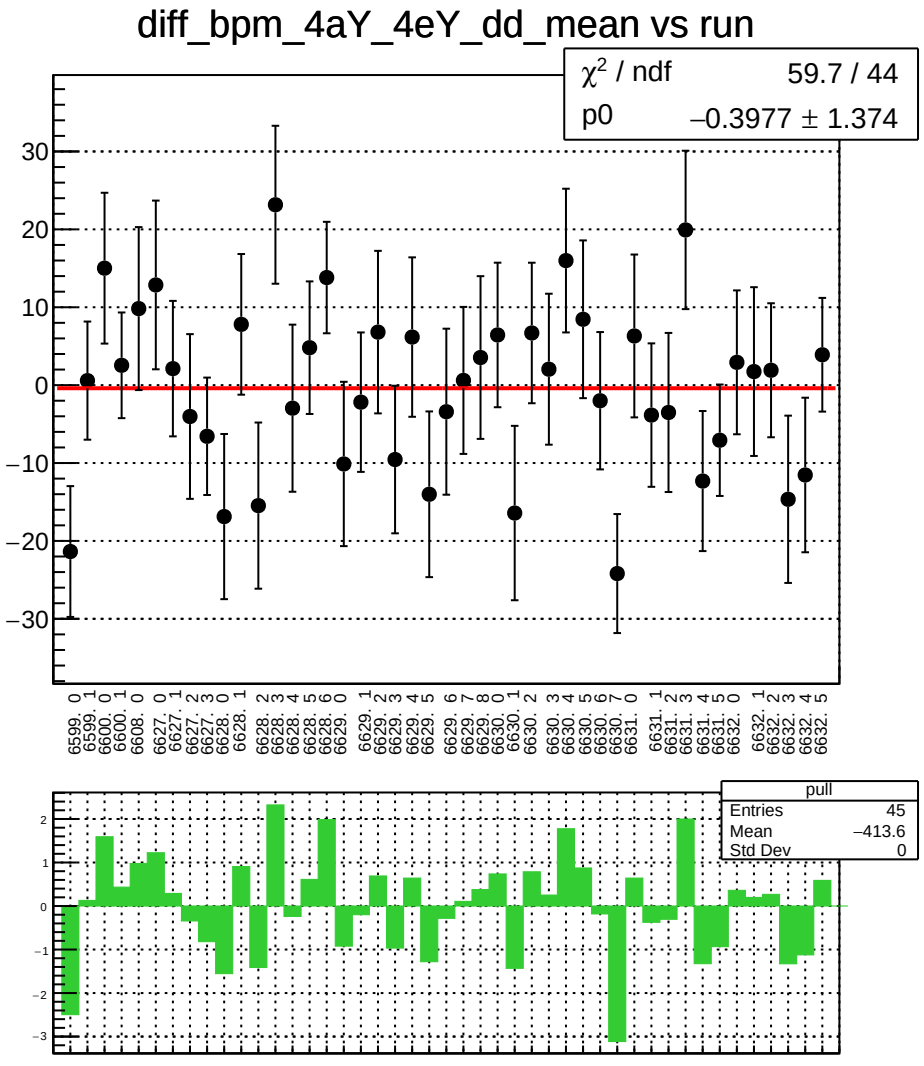

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 37.98 / 44
p0 1.064 ± 1.168
20
10
0
−10
−20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 73.73
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01971
Std Dev 0.9185
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

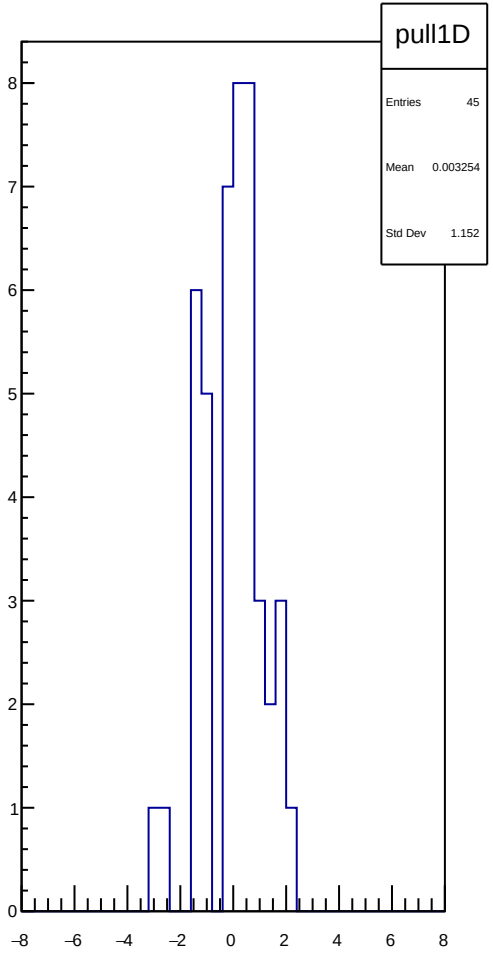

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 89.22 / 44
p0 775.6 ± 0.8257
800
790
780
770
760
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

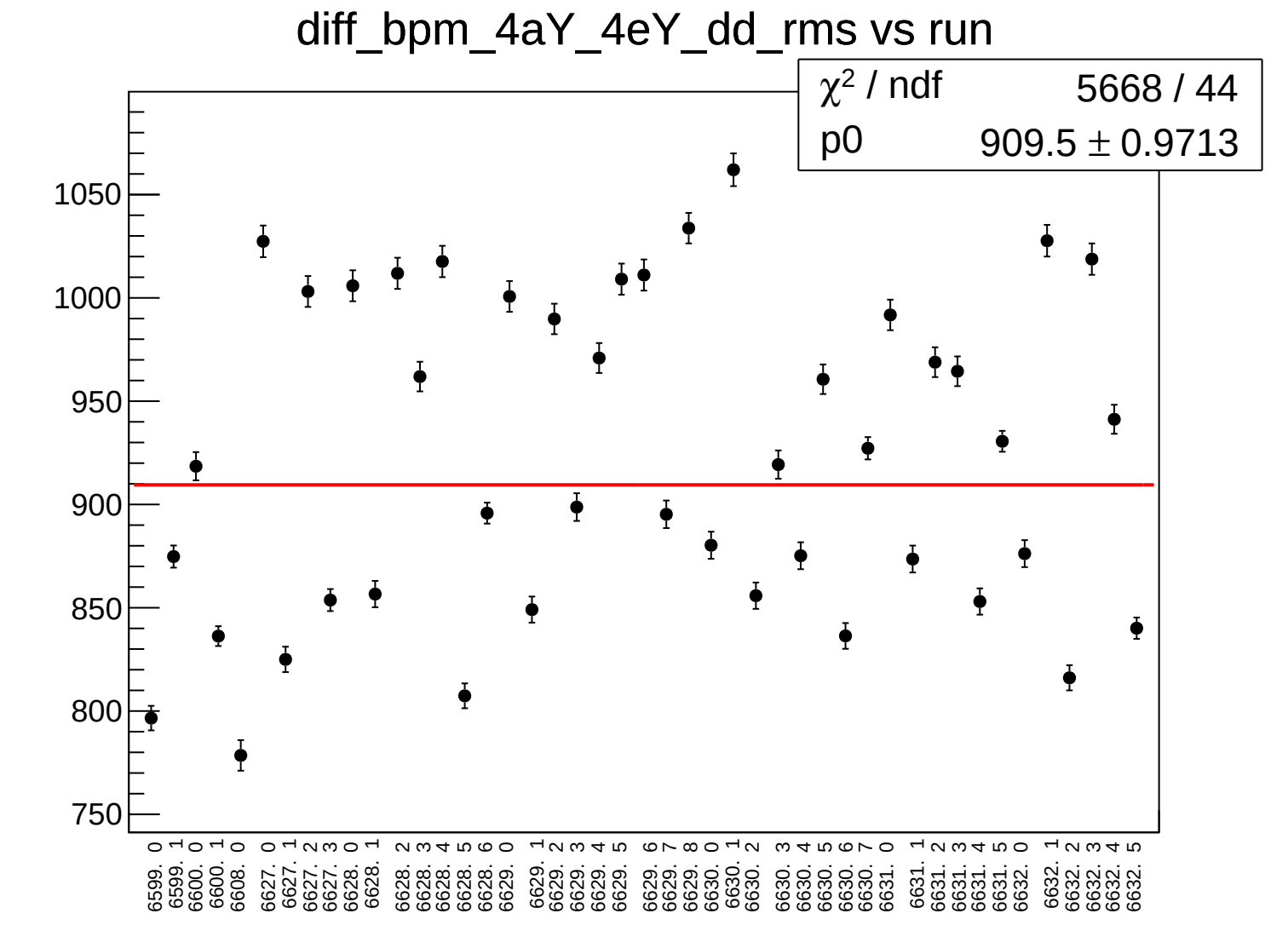

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 56.58 / 44
p0 0.6988 ± 10.33
200
100
0
−100
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −222.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

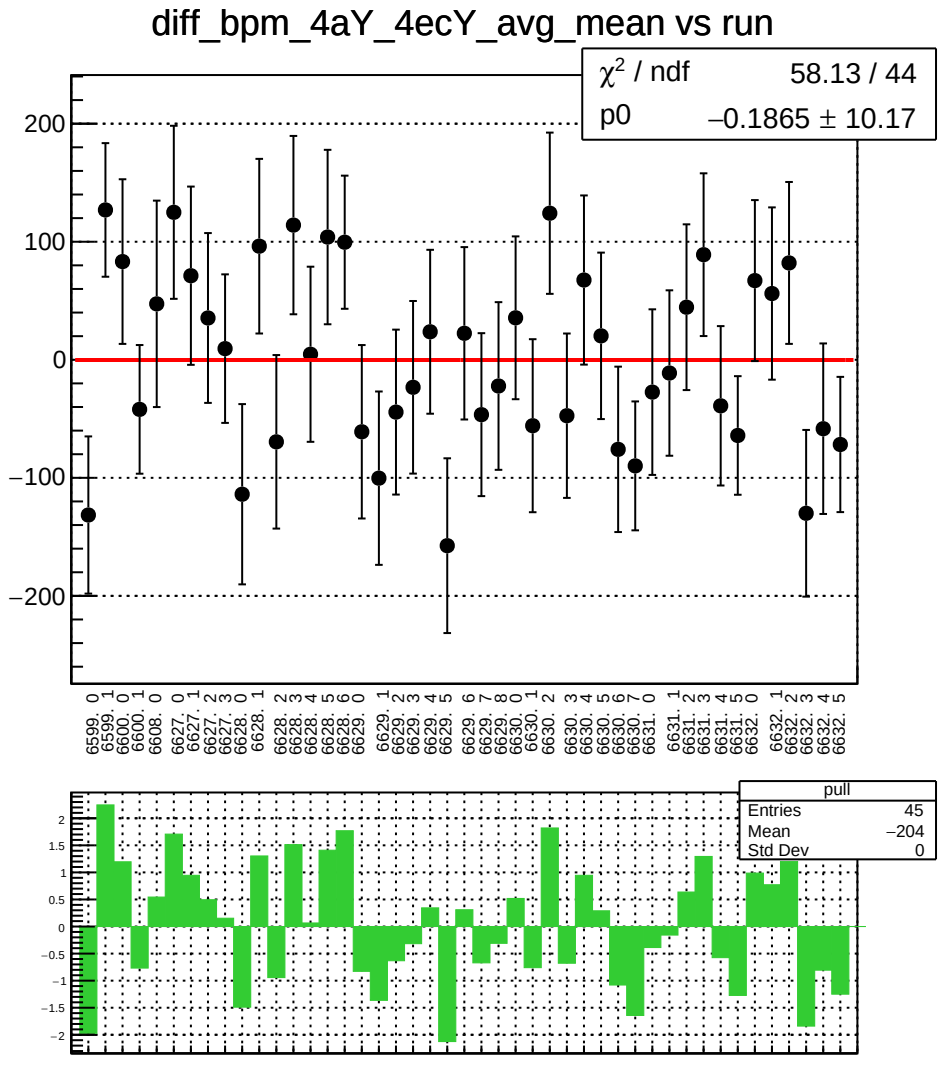

pull1D
Entries 45
Mean 0.01311
Std Dev 1.121
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

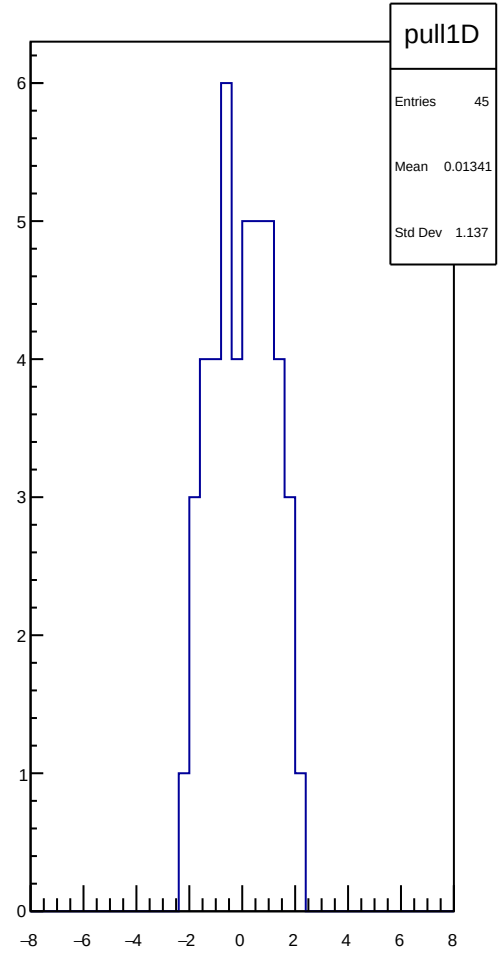

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 1012 / 44
p0 6860 ± 7.306
7400
7200
7000
6800
6600
6400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

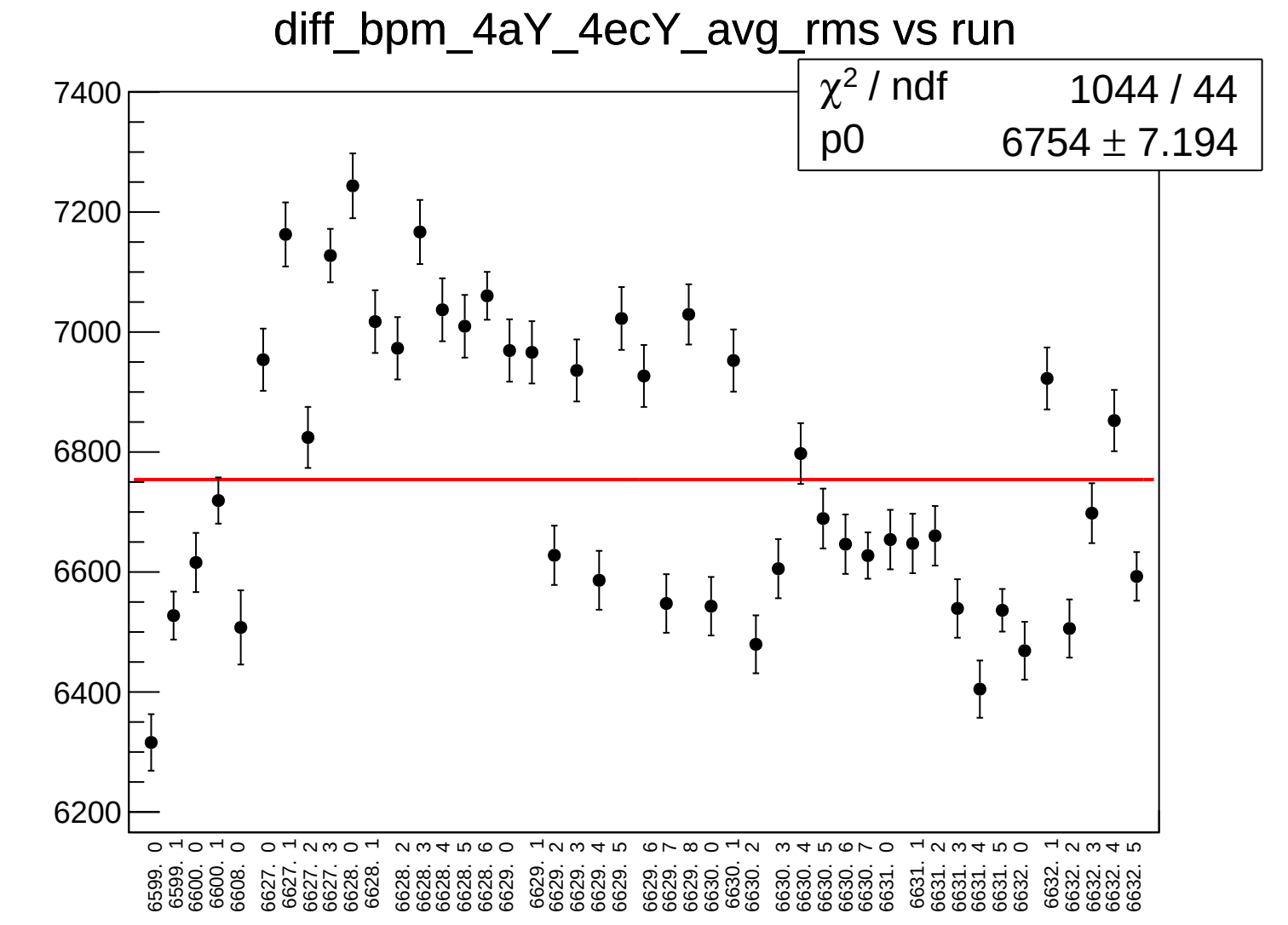

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 59.7 / 44
p0 −0.3977 ± 1.374
30
20
10
0
−10
−20
−30
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −413.6
Std Dev 0
2
1
0
−1
−2
−3

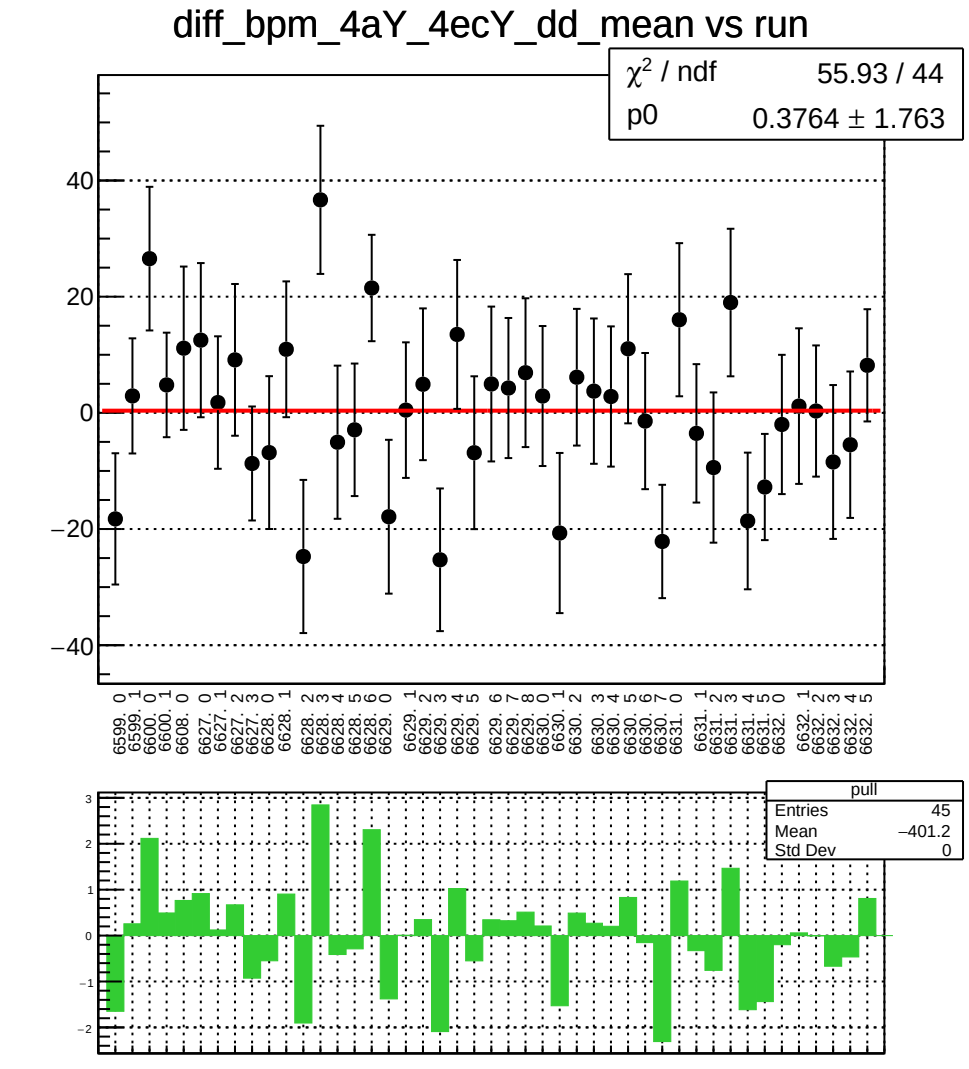

pull1D
Entries 45
Mean 0.003254
Std Dev 1.152
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

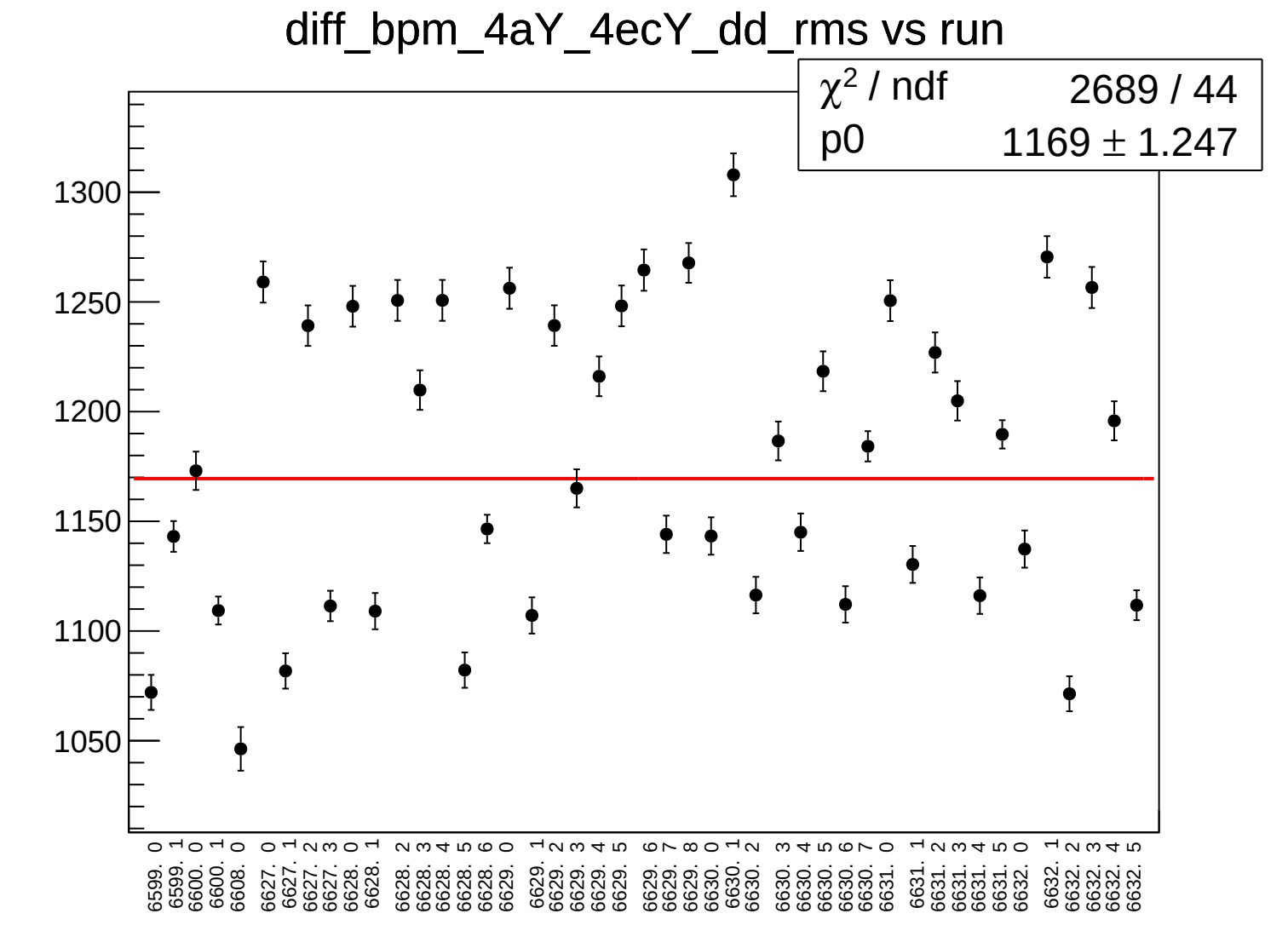

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 5668 / 44
p0 909.5 ± 0.9713
1050
1000
950
900
850
800
750
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

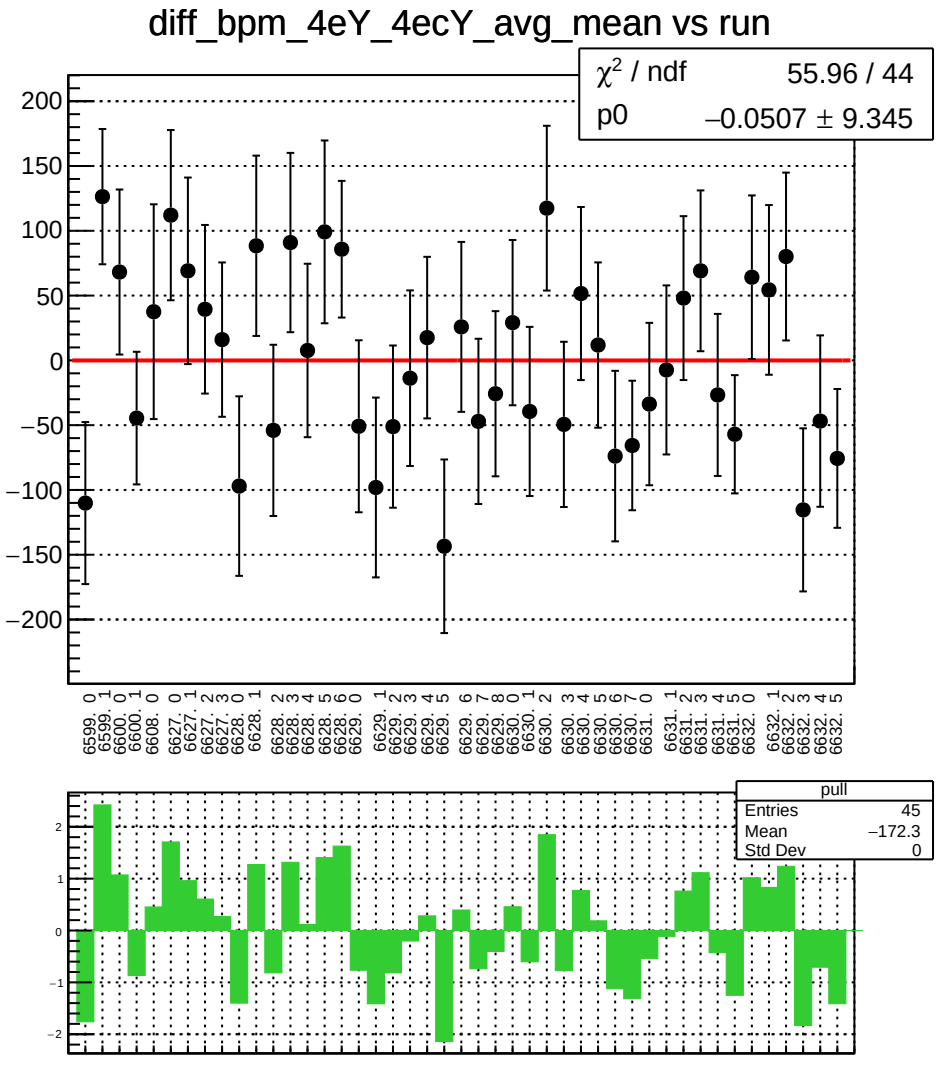

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 58.13 / 44
p0 −0.1865 ± 10.17
200
100
0
−100
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −204
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

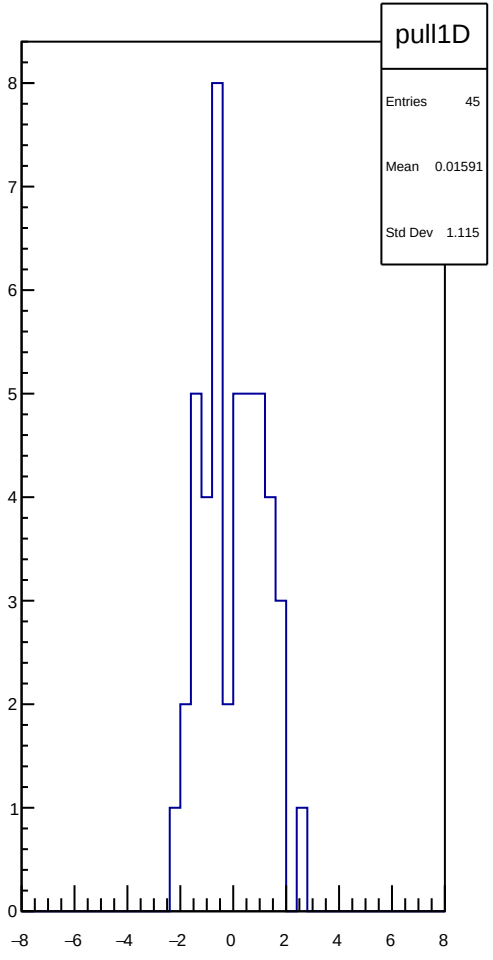

pull1D
Entries 45
Mean 0.01341
Std Dev 1.137
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

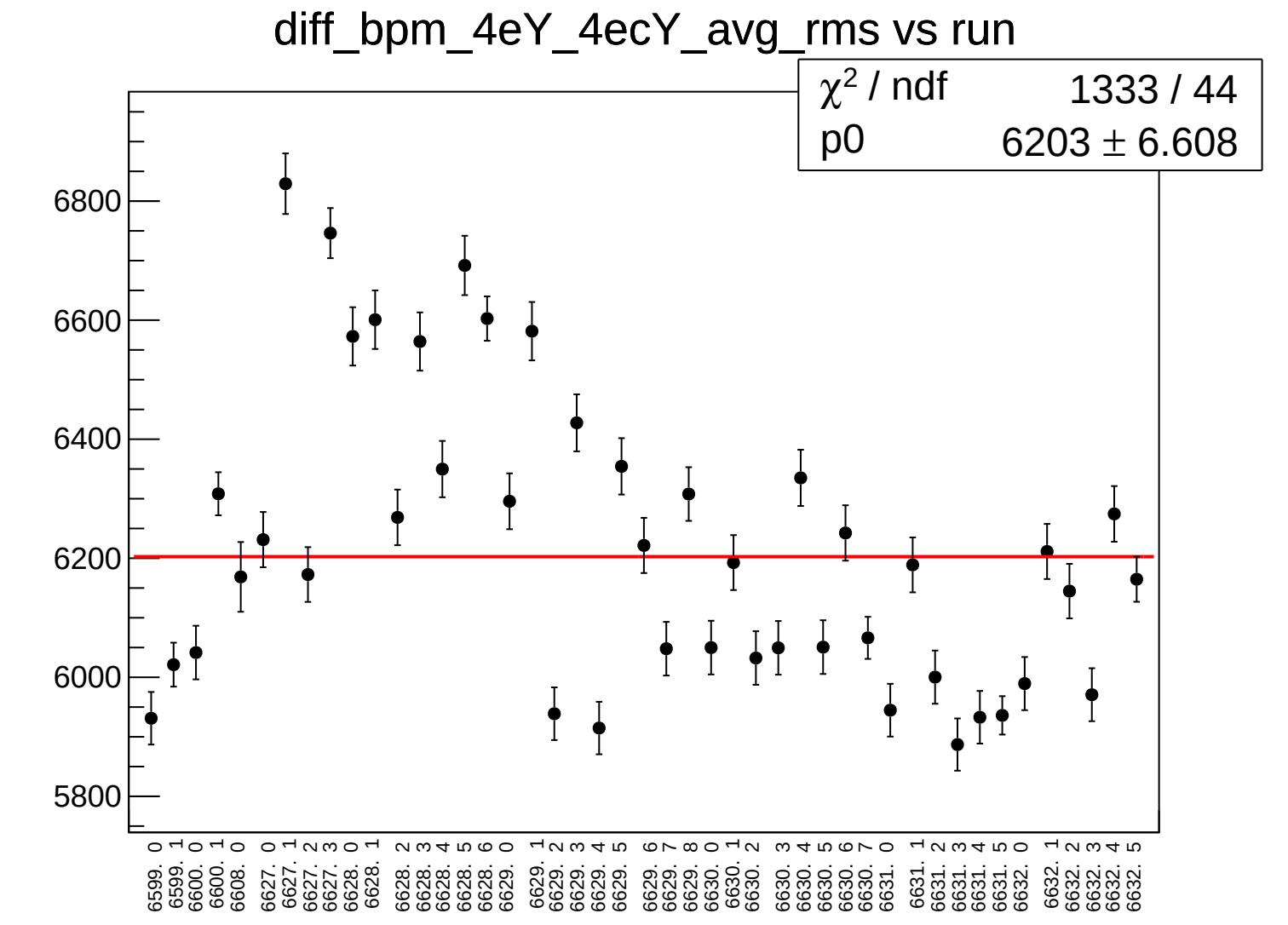

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 1044 / 44
p0 6754 ± 7.194
7400
7200
7000
6800
6600
6400
6200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

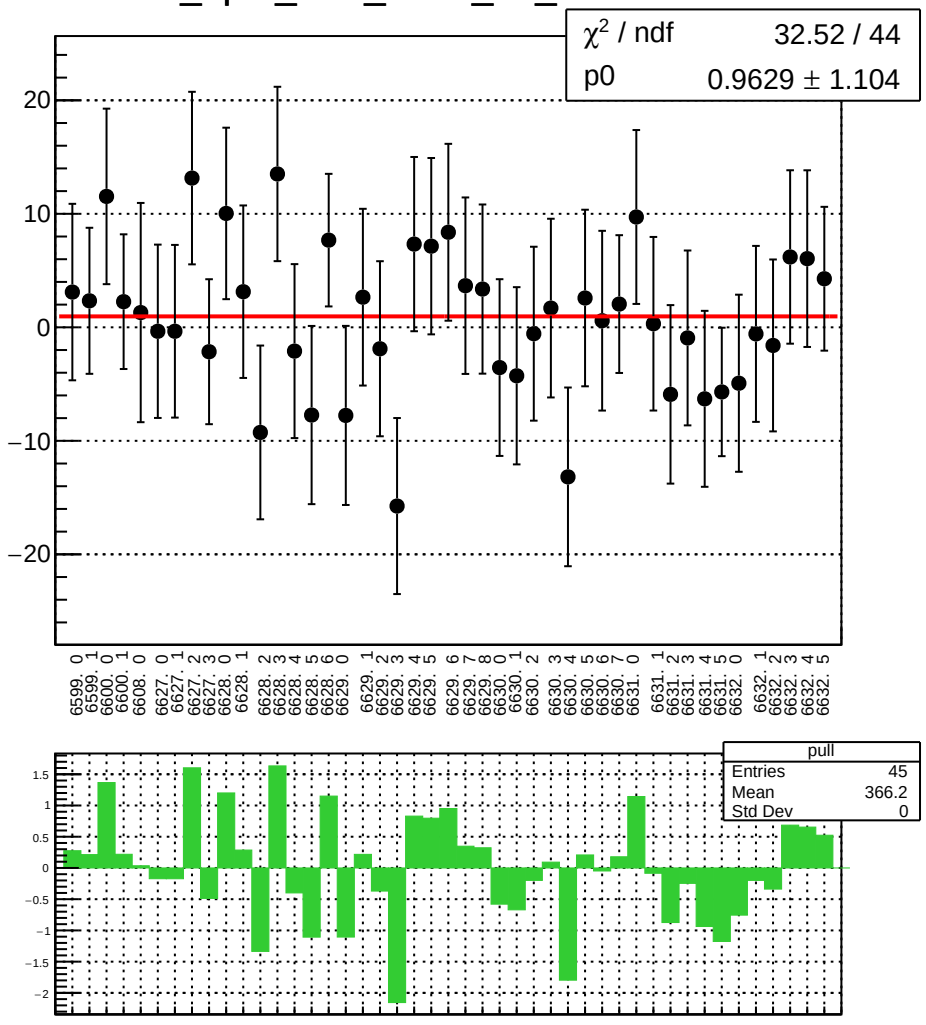

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 55.93 / 44
p0 0.3764 ± 1.763
40
20
0
−20
−40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −401.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.005796
Std Dev 1.115
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

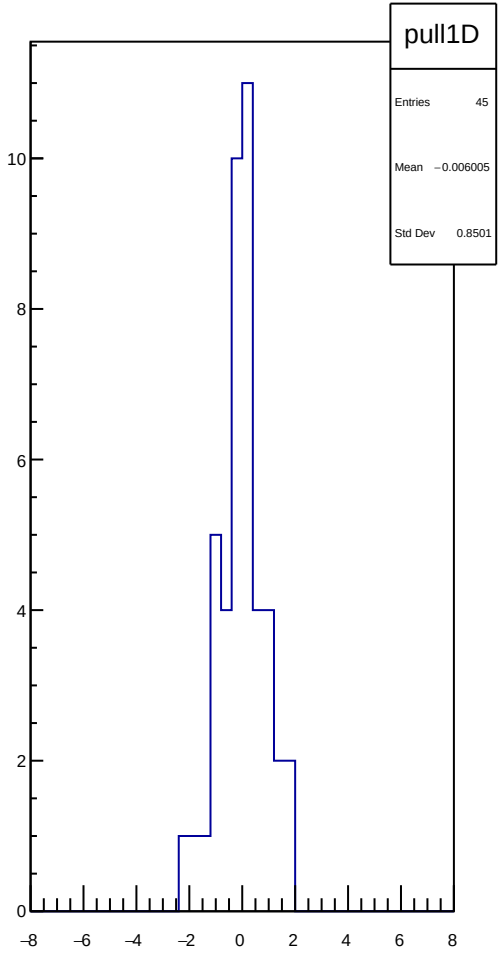

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 2689 / 44
p0 1169 ± 1.247
1300
1250
1200
1150
1100
1050
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

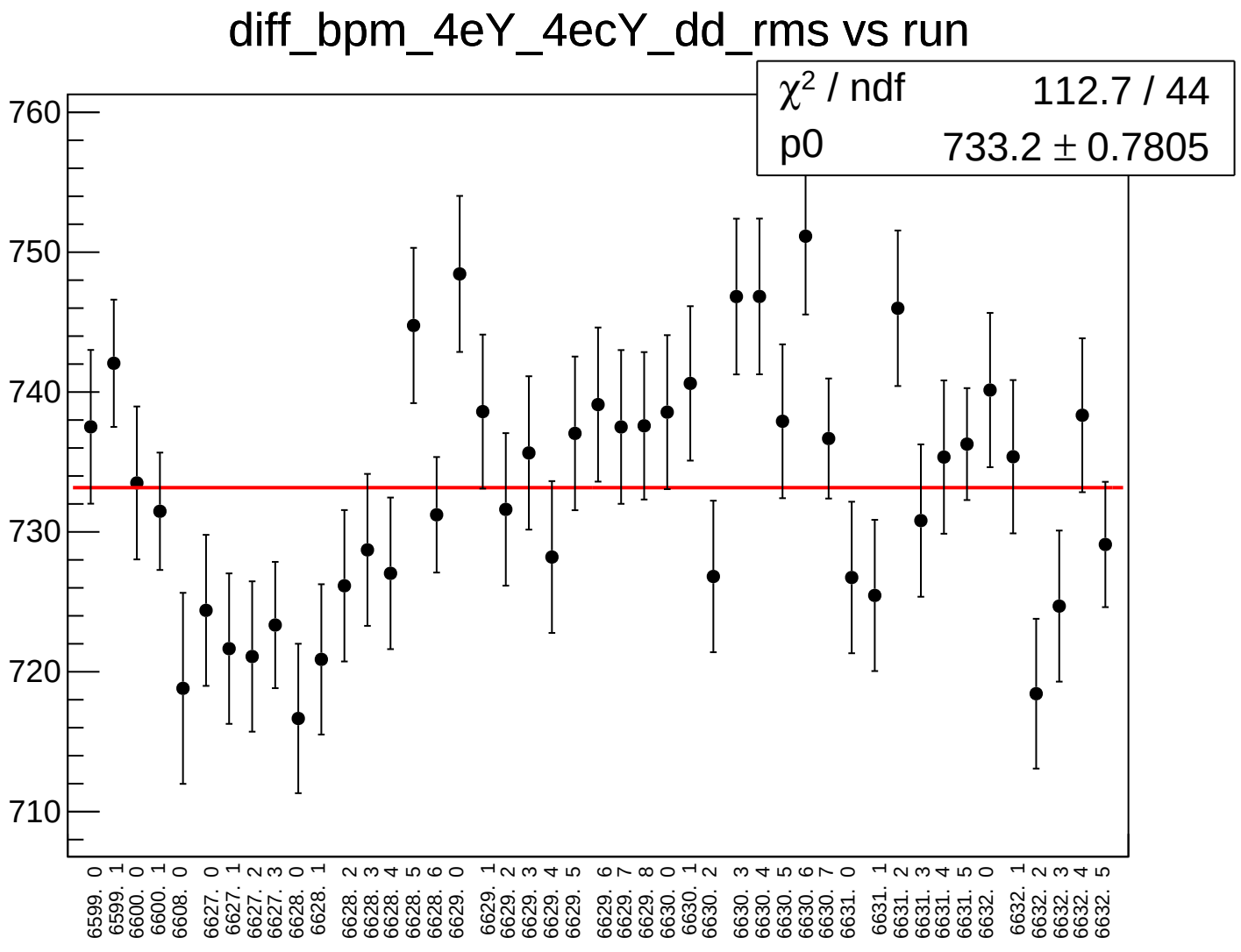

diff_bpm_4eY_4ecY_avg_mean vs run
$\chi^2$ / ndf 55.96 / 44
p0 −0.0507 ± 9.345
200
150
100
50
0
−50
−100
−150
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −172.3
Std Dev 0
2
1
0
−1
−2

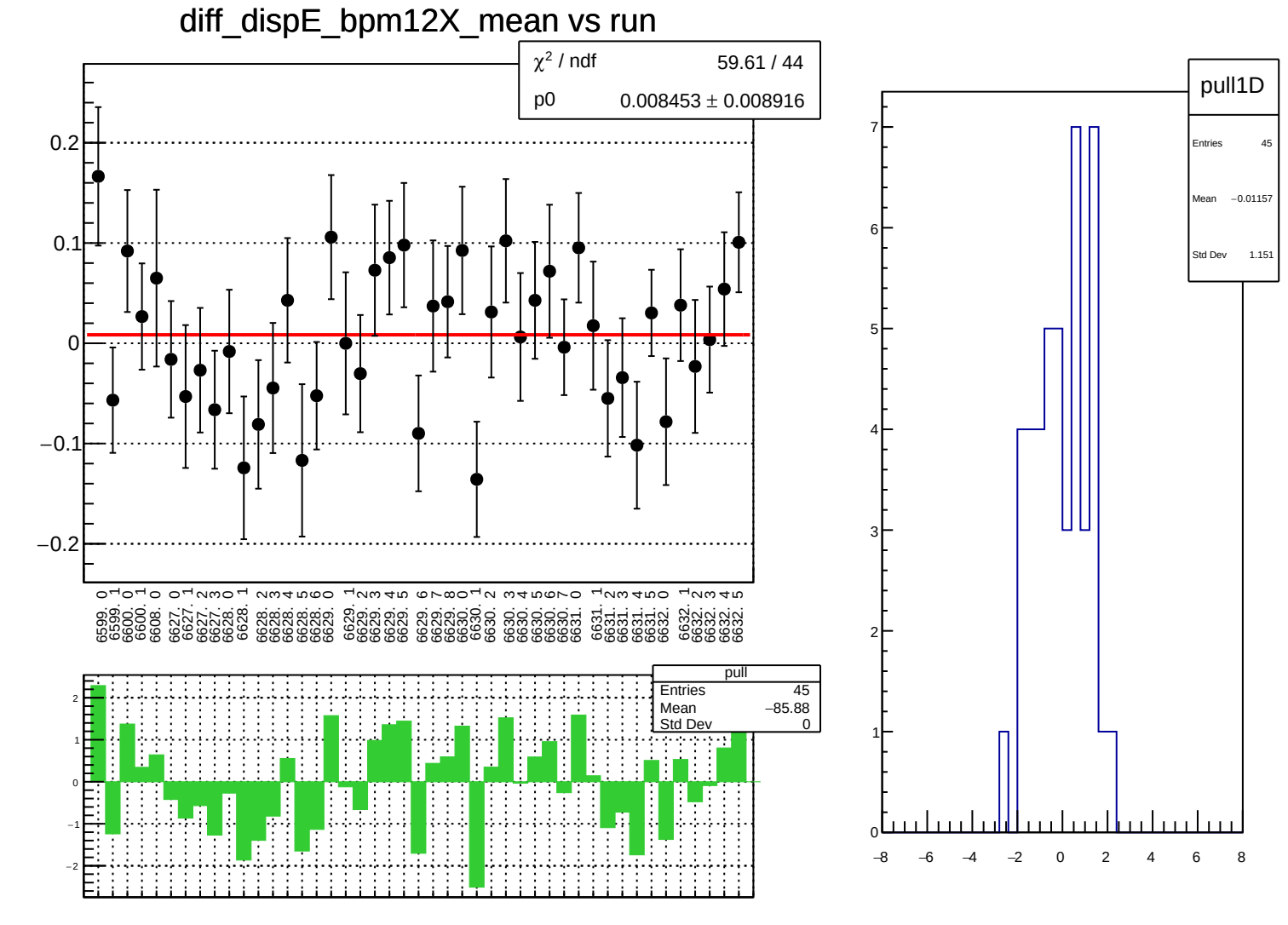

pull1D
Entries 45
Mean 0.01591
Std Dev 1.115
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

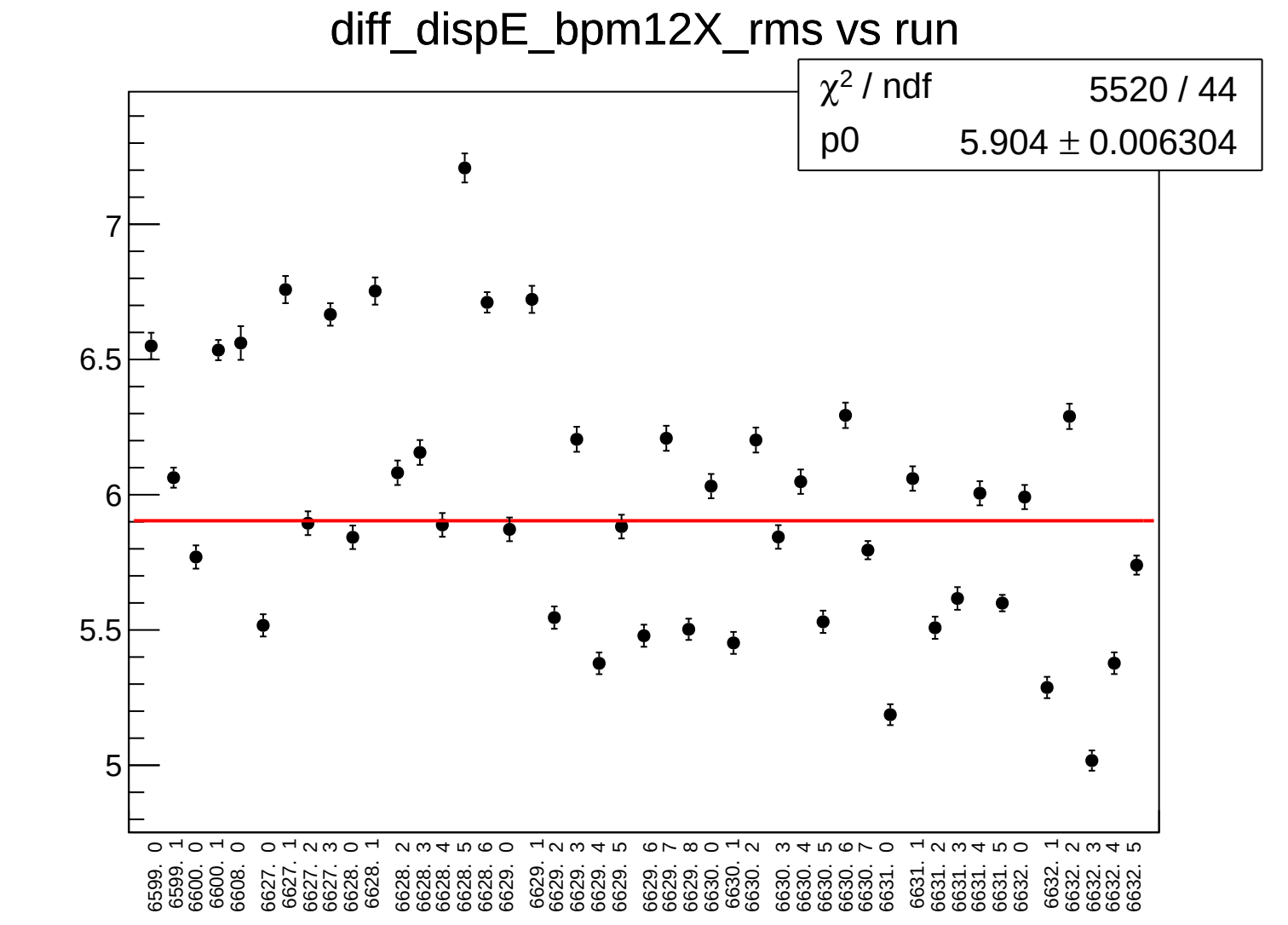

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 1333 / 44
p0 6203 ± 6.608
6800
6600
6400
6200
6000
5800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

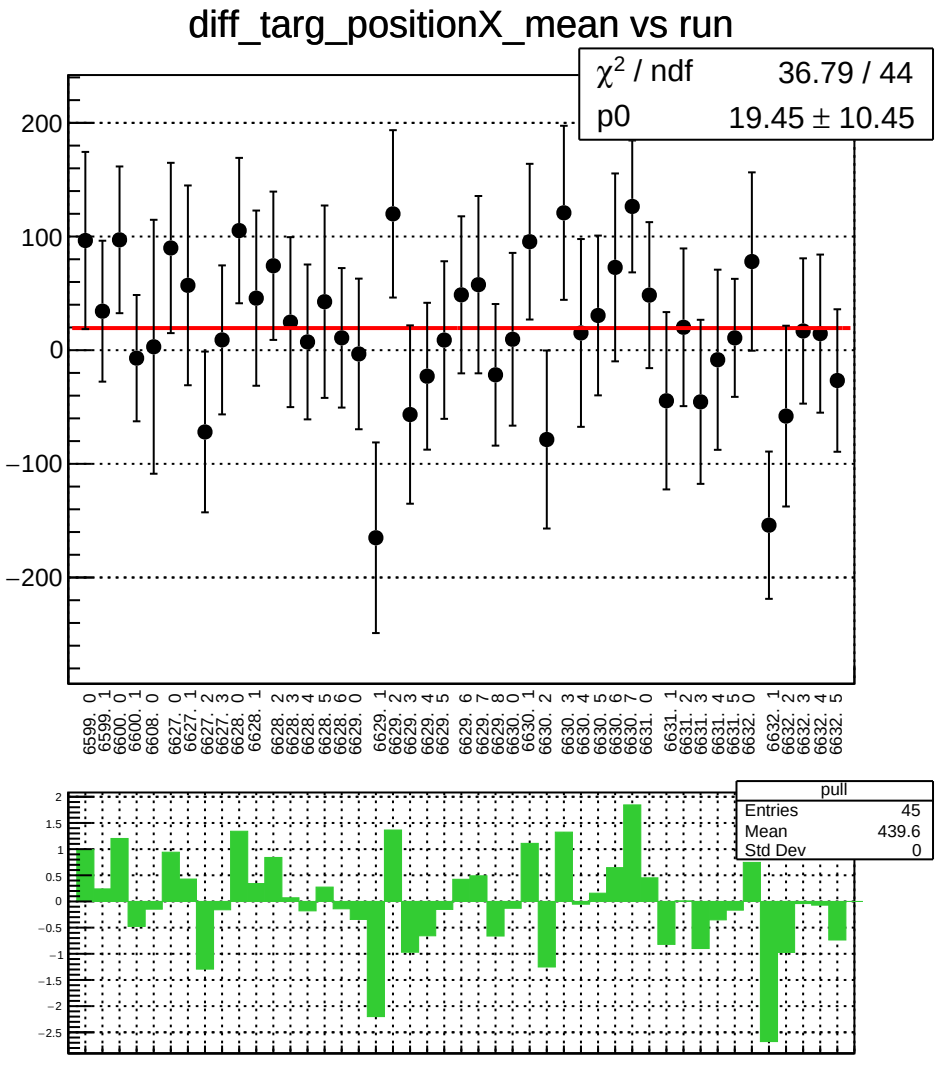

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 32.52 / 44
p0 0.9629 ± 1.104
pull
Entries 45
Mean 366.2
Std Dev 0

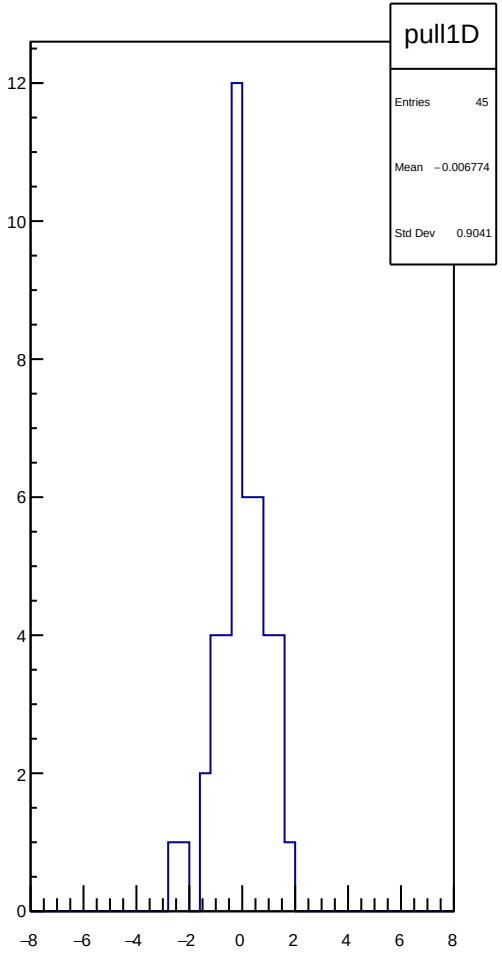

pull1D
Entries 45
Mean −0.006005
Std Dev 0.8501

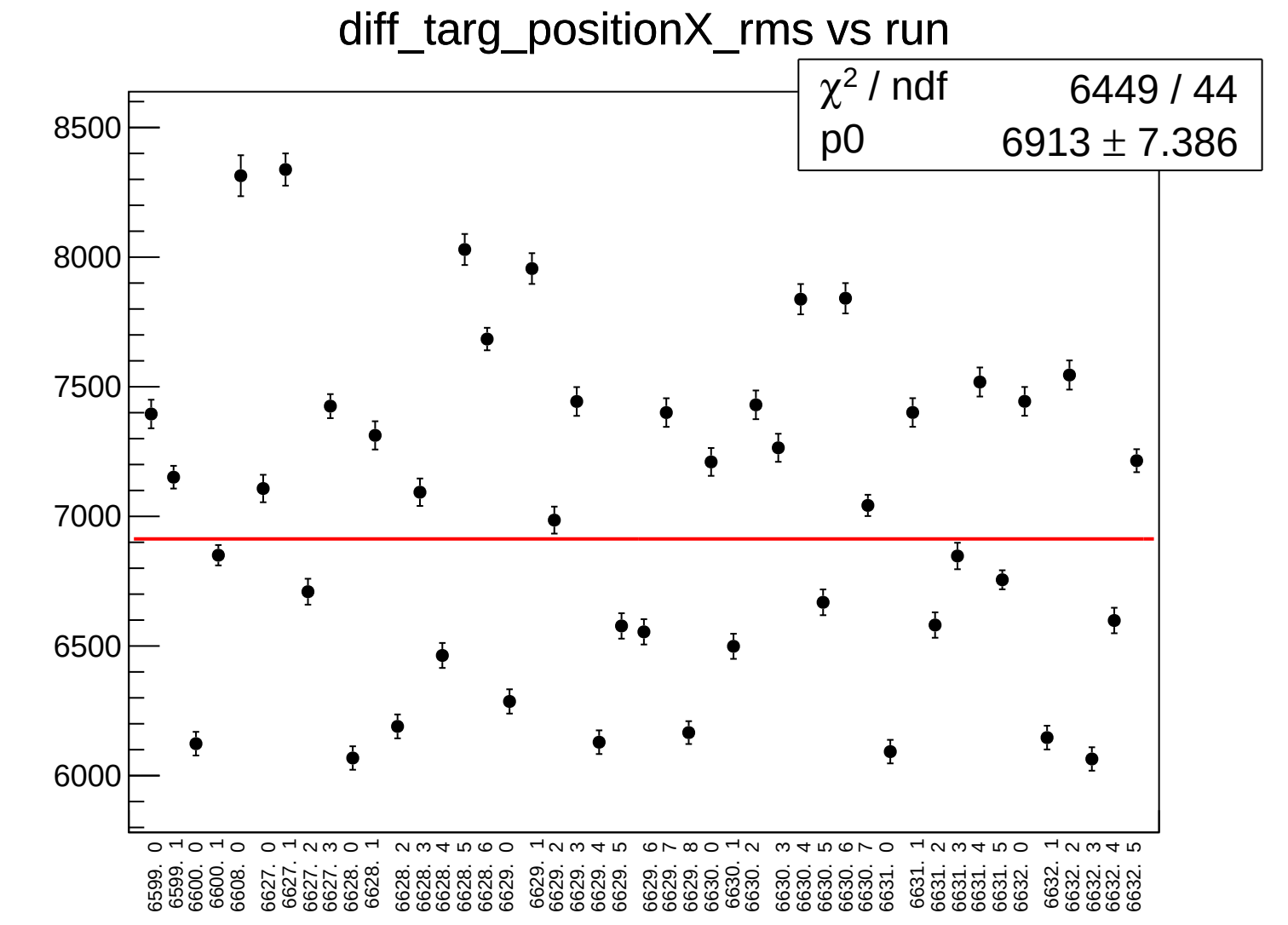

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 112.7 / 44
p0 733.2 ± 0.7805
760
750
740
730
720
710
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

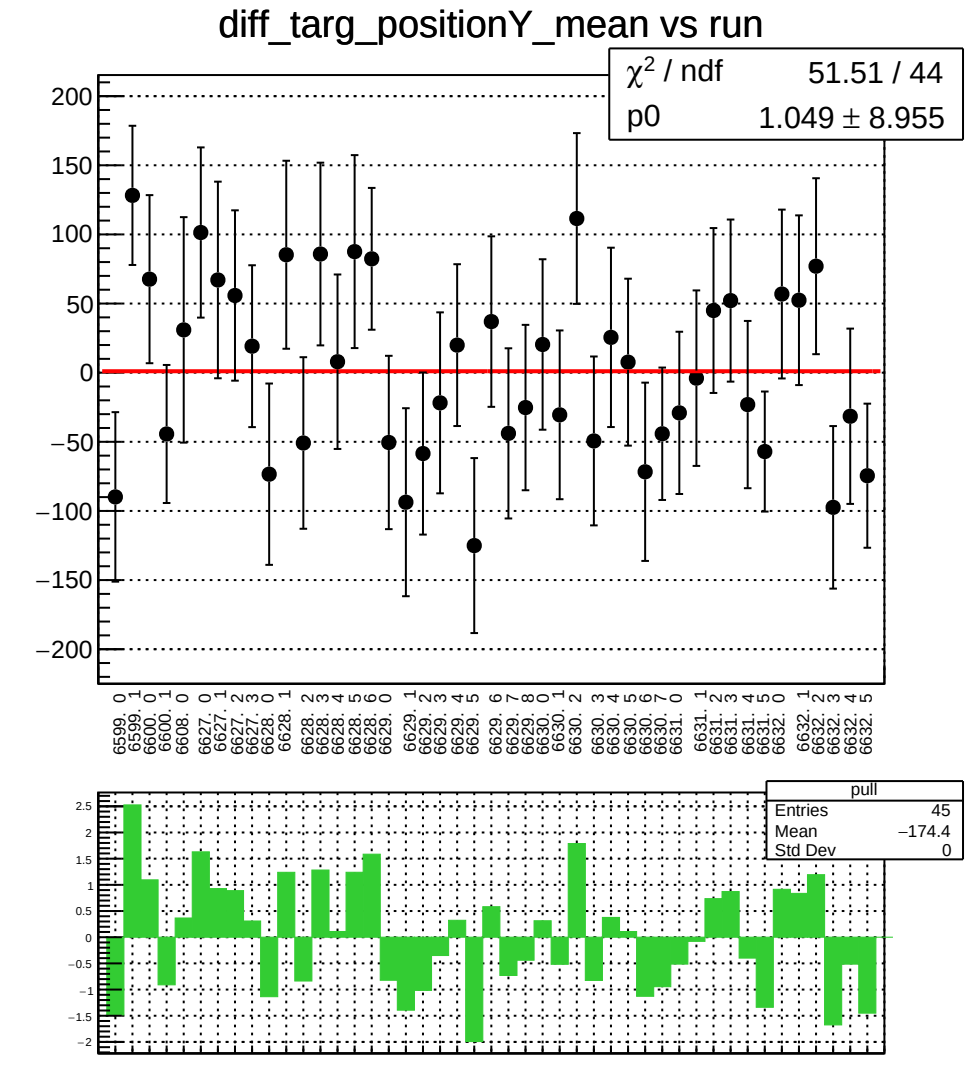

diff_dispE_bpm12X_mean vs run
χ² / ndf 59.61 / 44
p0 0.008453 ± 0.008916
0.2
0.1
0
−0.1
−0.2
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −85.88
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01157
Std Dev 1.151
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

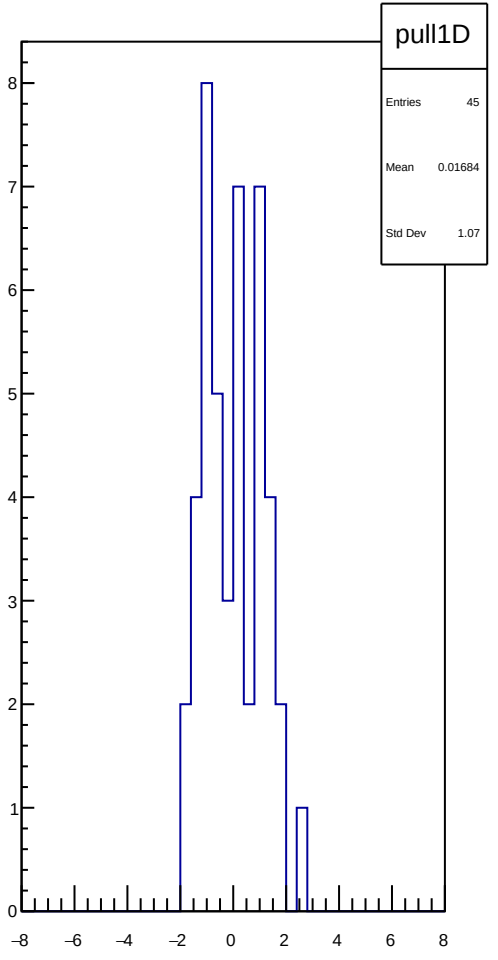

diff_dispE_bpm12X_rms vs run
χ² / ndf 5520 / 44
p0 5.904 ± 0.006304
7
6.5
6
5.5
5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

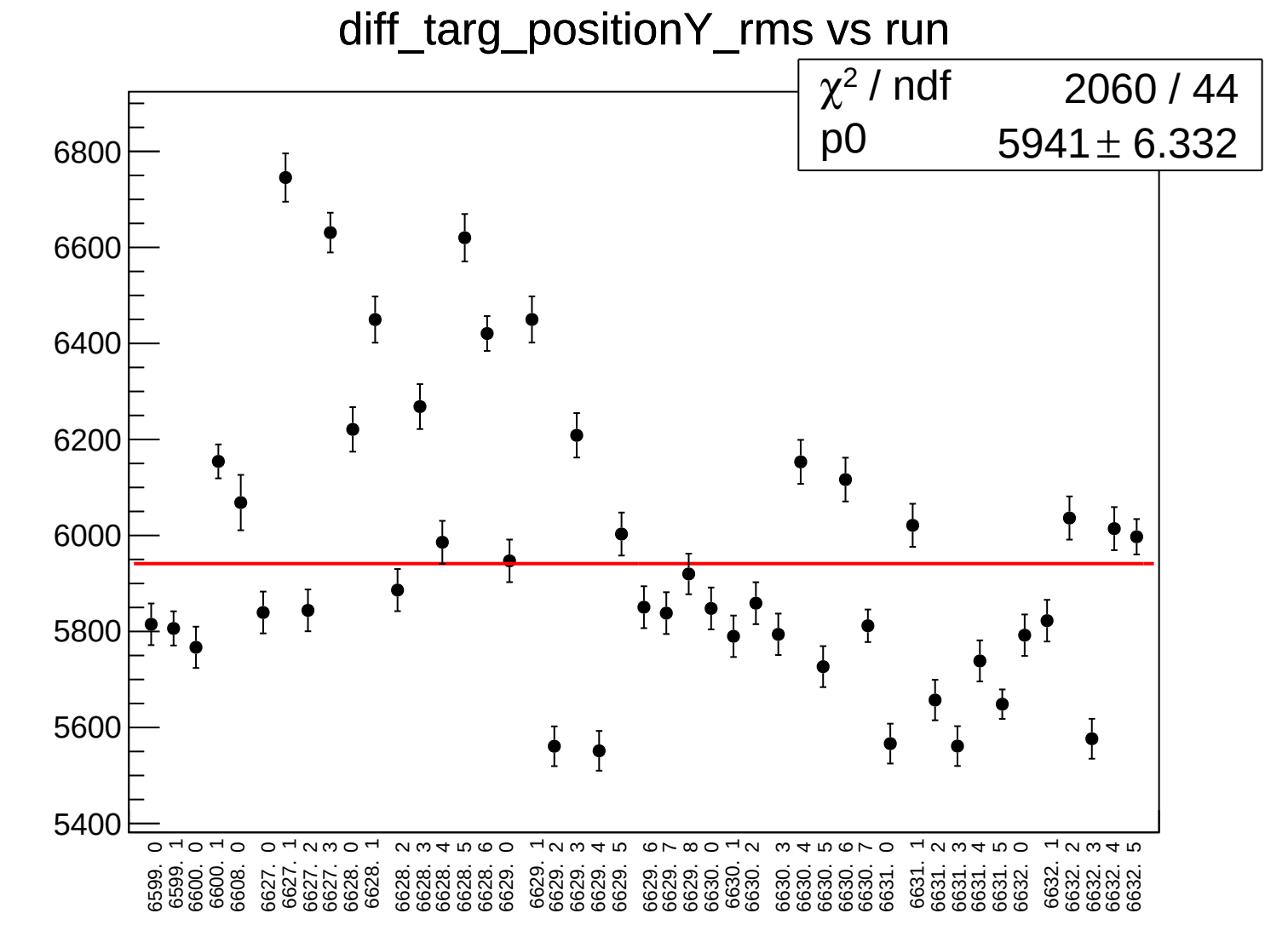

diff_targ_positionX_mean vs run
$\chi^2$ / ndf 36.79 / 44
p0 19.45 ± 10.45
200
100
0
−100
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 439.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

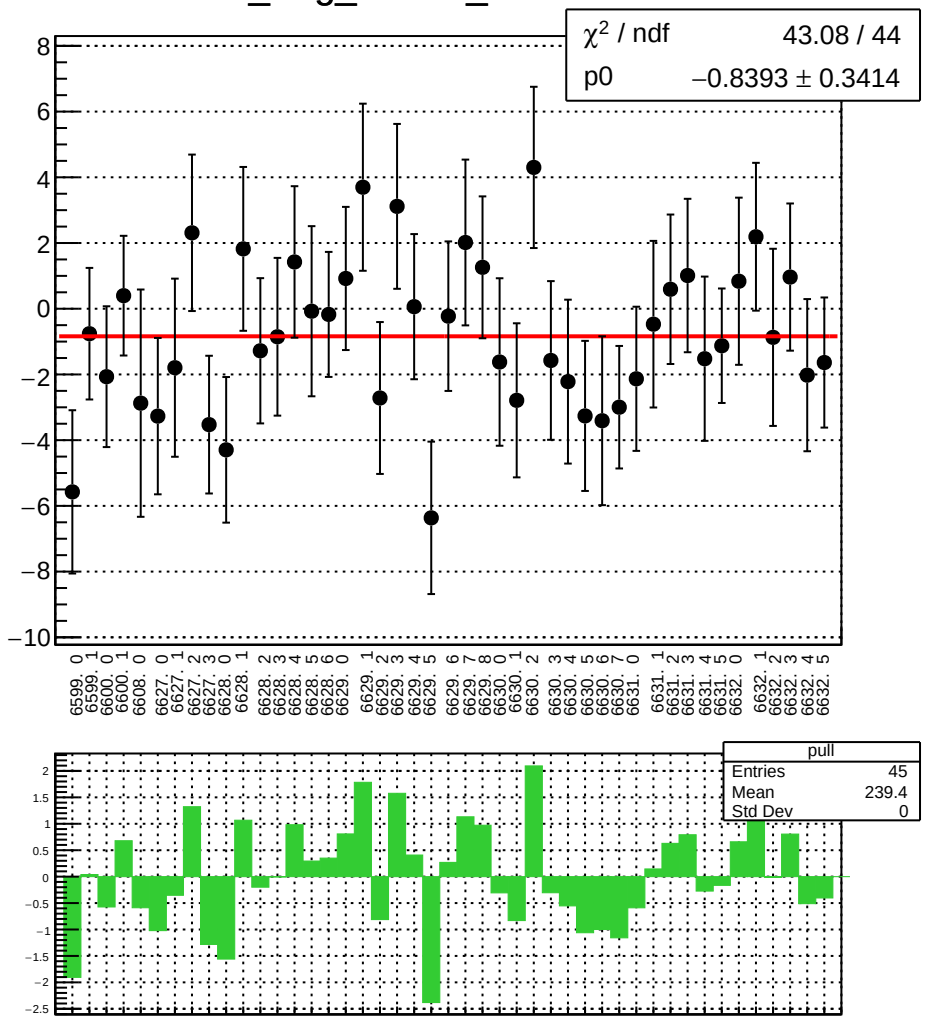

pull1D
Entries 45
Mean −0.006774
Std Dev 0.9041
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

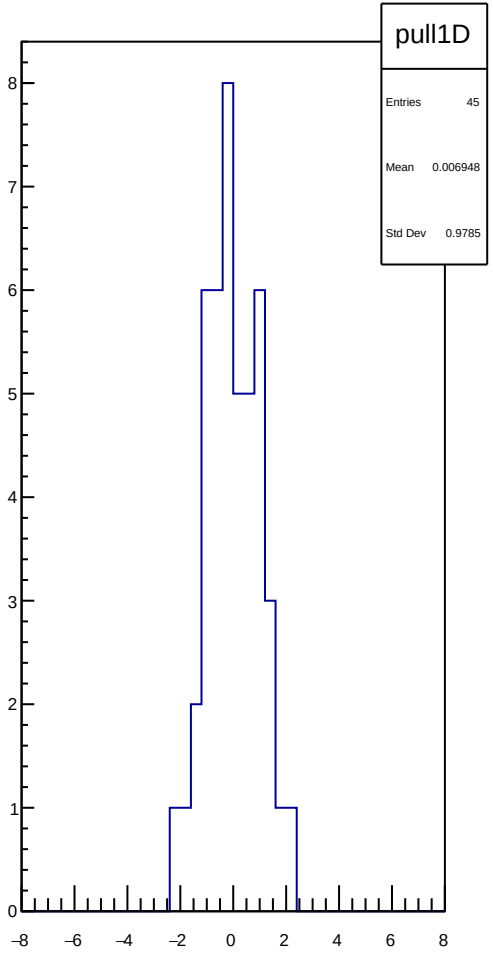

diff_targ_positionX_rms vs run
χ² / ndf 6449 / 44
p0 6913 ± 7.386
8500
8000
7500
7000
6500
6000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

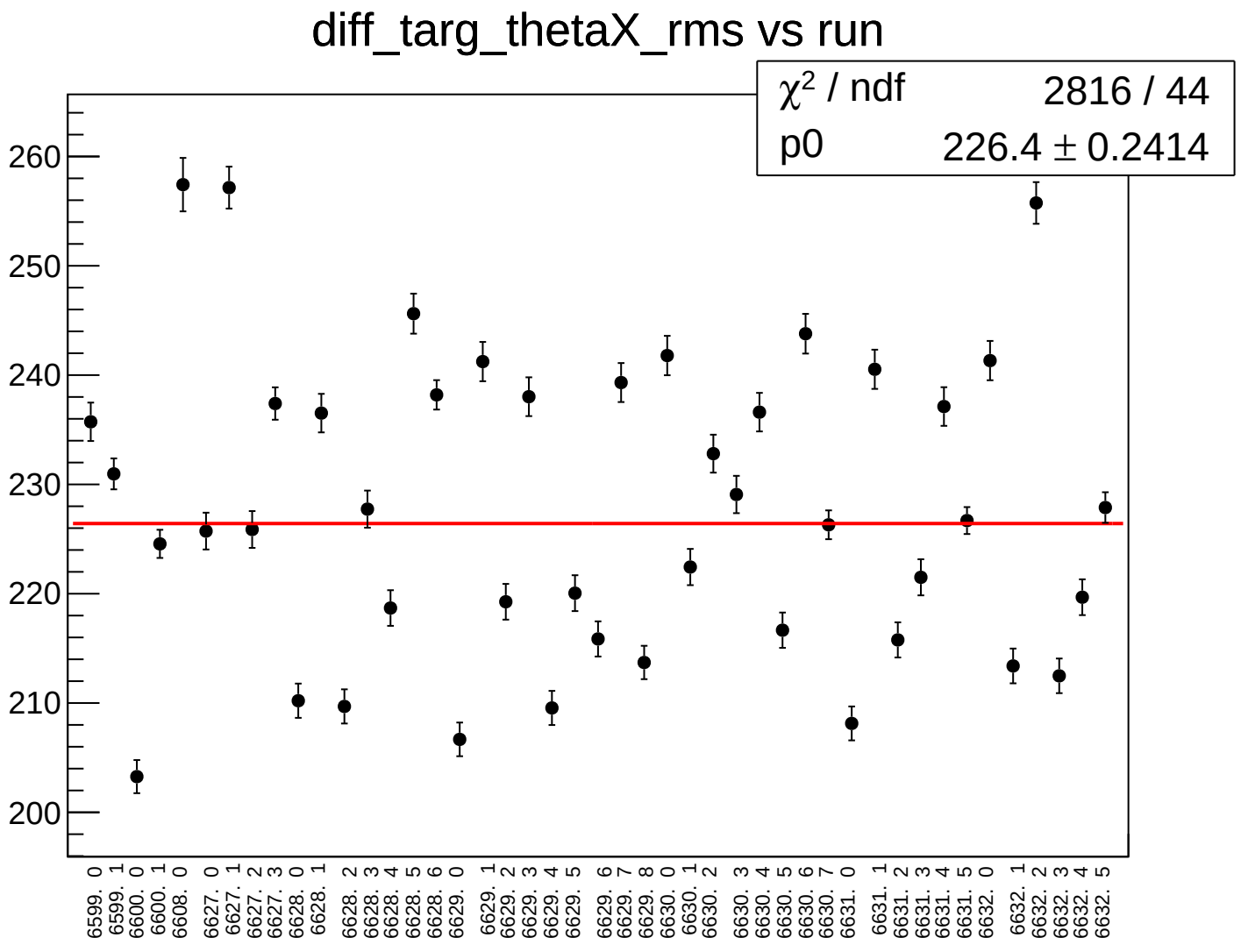

diff_targ_positionY_mean vs run
χ² / ndf 51.51 / 44
p0 1.049 ± 8.955
pull
Entries 45
Mean −174.4
Std Dev 0

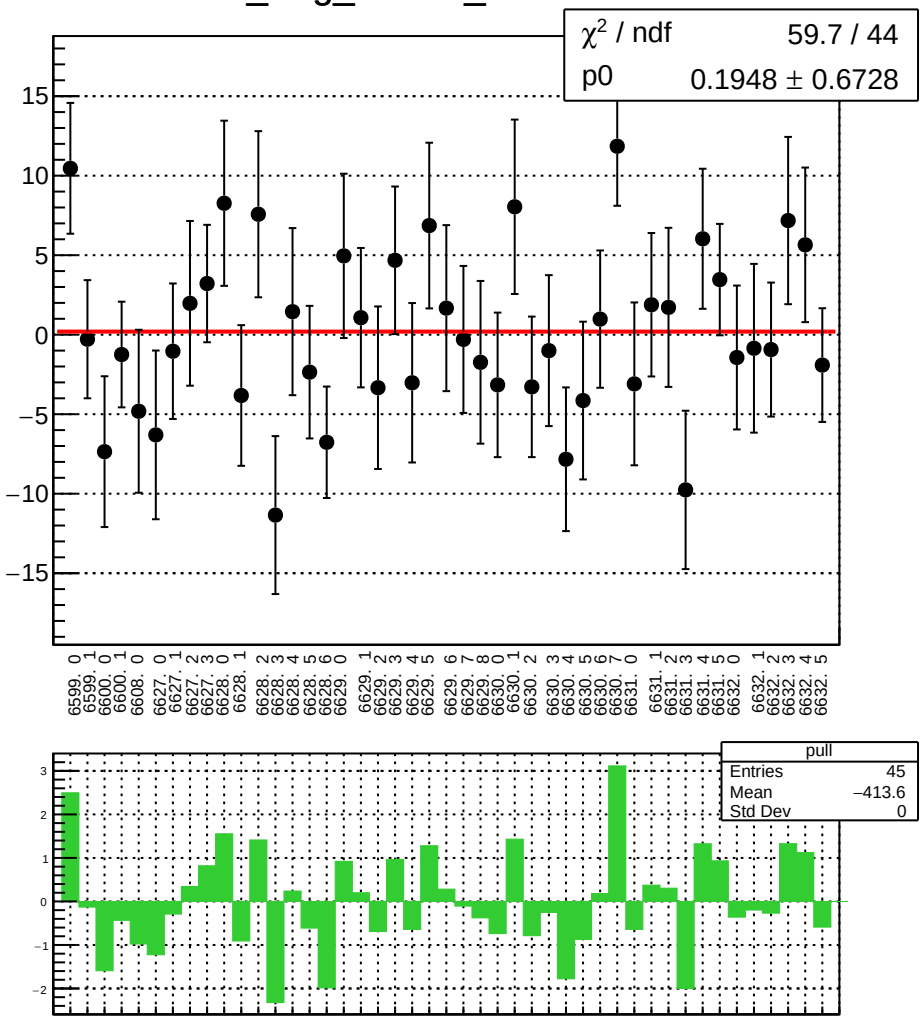

pull1D
Entries 45
Mean 0.01684
Std Dev 1.07

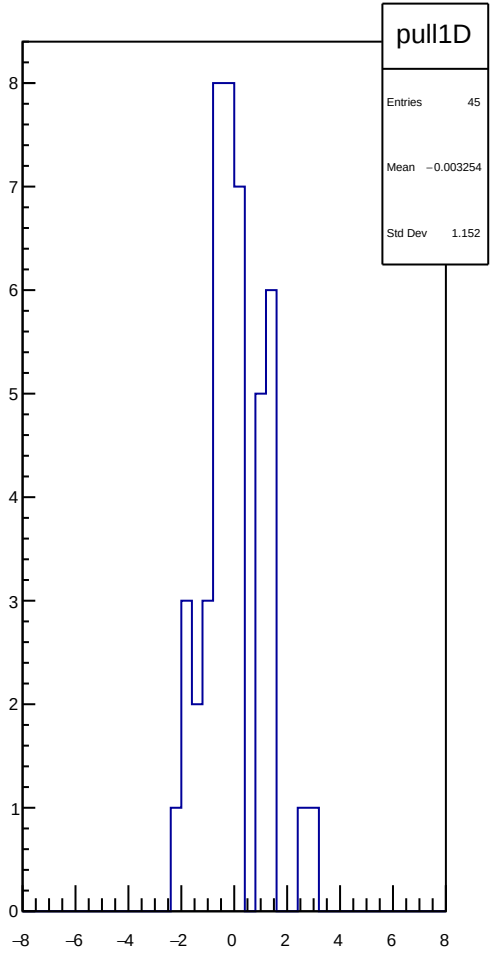

diff_targ_positionY_rms vs run
χ² / ndf 2060 / 44
p0 5941 ± 6.332
6800
6600
6400
6200
6000
5800
5600
5400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

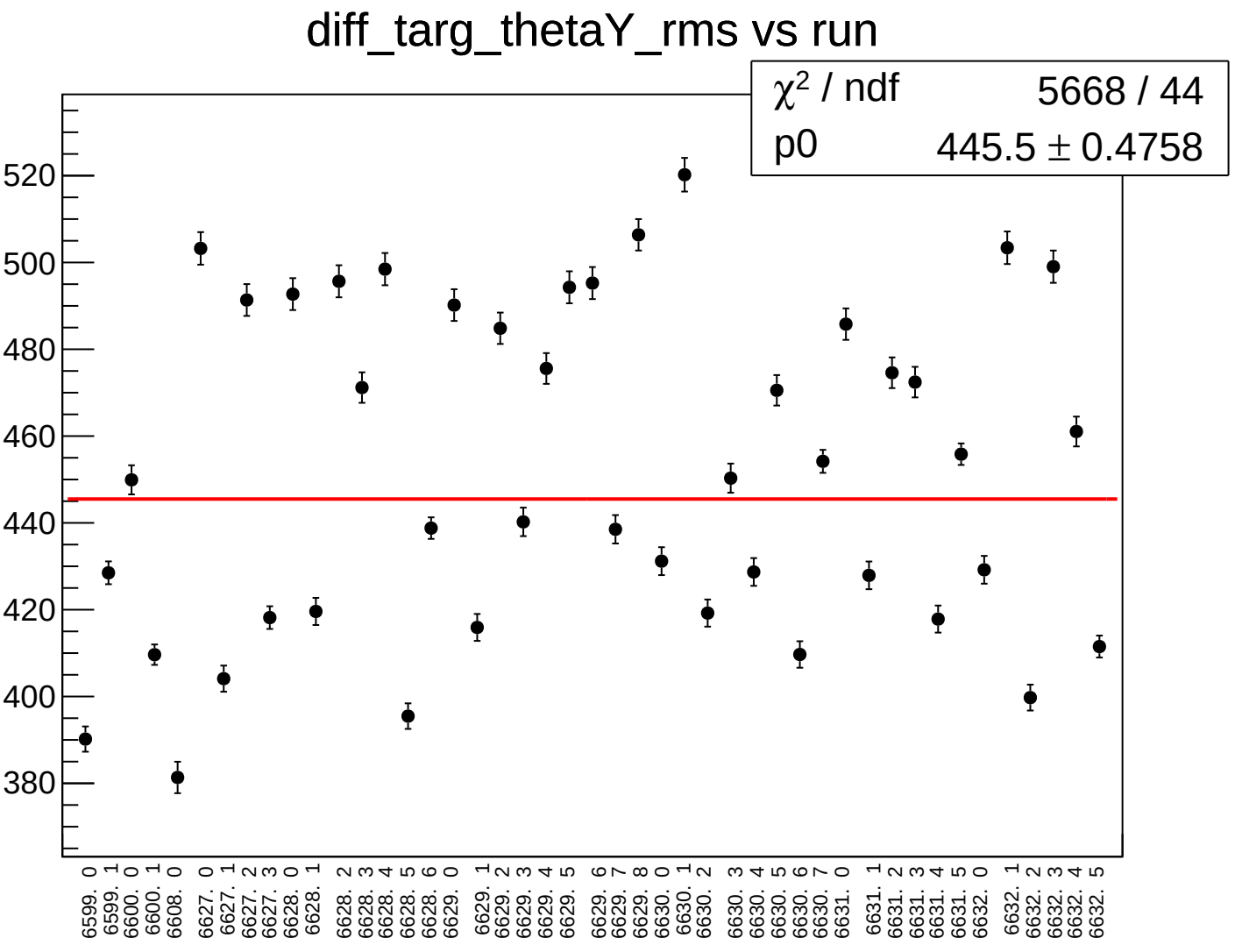

diff_targ_thetaX_mean vs run
χ² / ndf 43.08 / 44
p0 −0.8393 ± 0.3414
pull
Entries 45
Mean 239.4
Std Dev 0

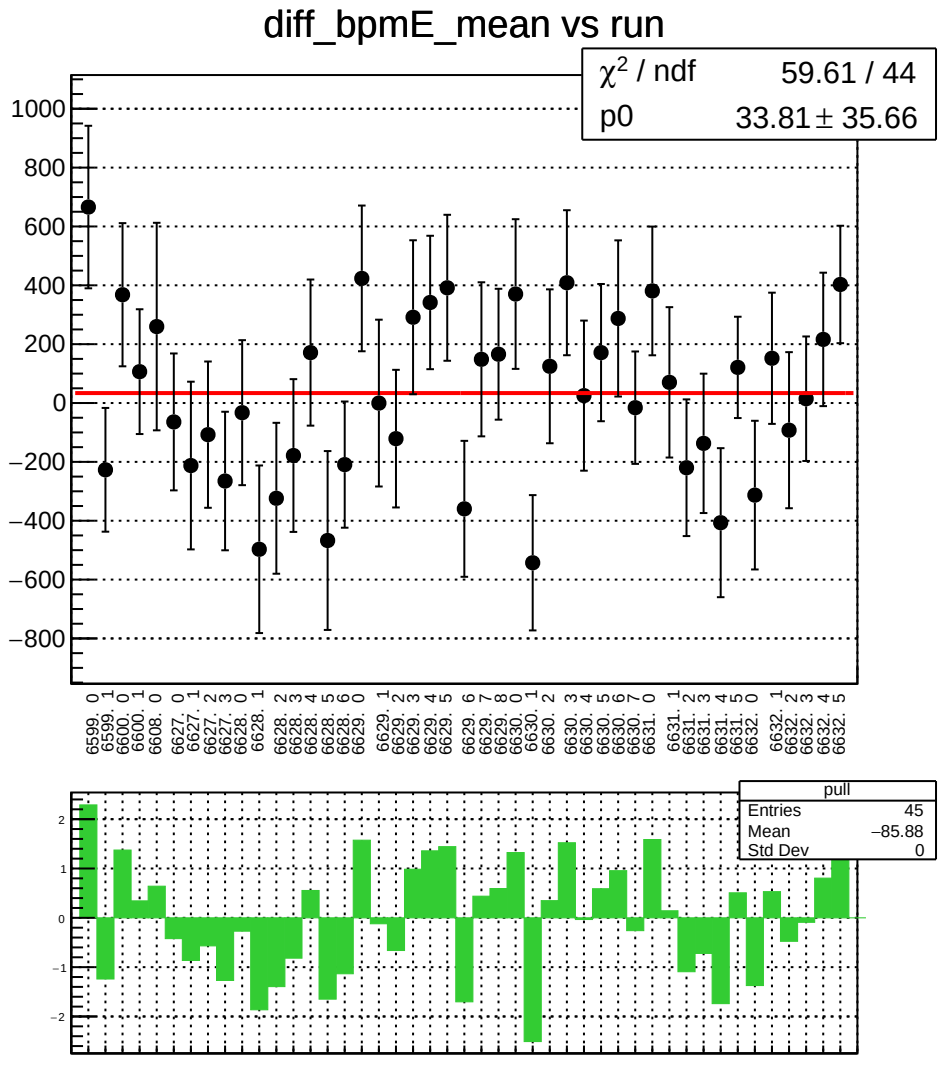

pull1D
Entries 45
Mean 0.006948
Std Dev 0.9785

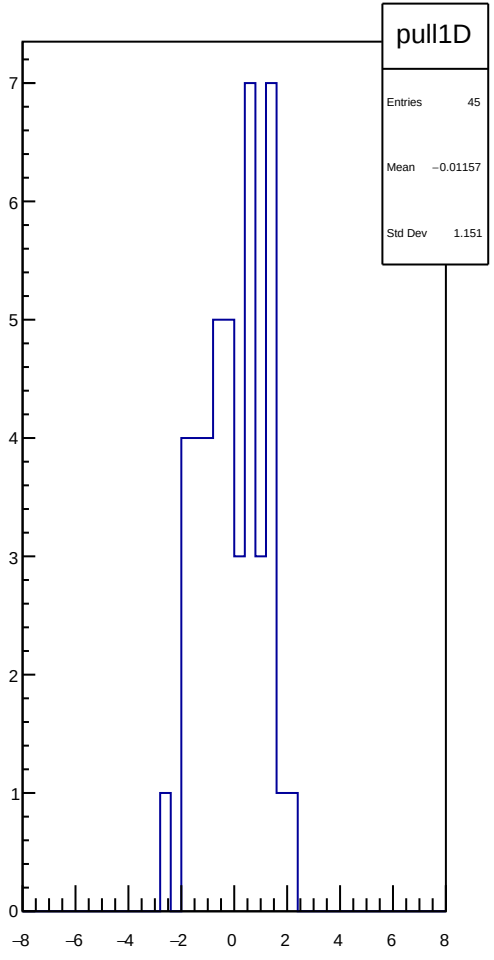

diff_targ_thetaX_rms vs run
χ² / ndf 2816 / 44
p0 226.4 ± 0.2414
260
250
240
230
220
210
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

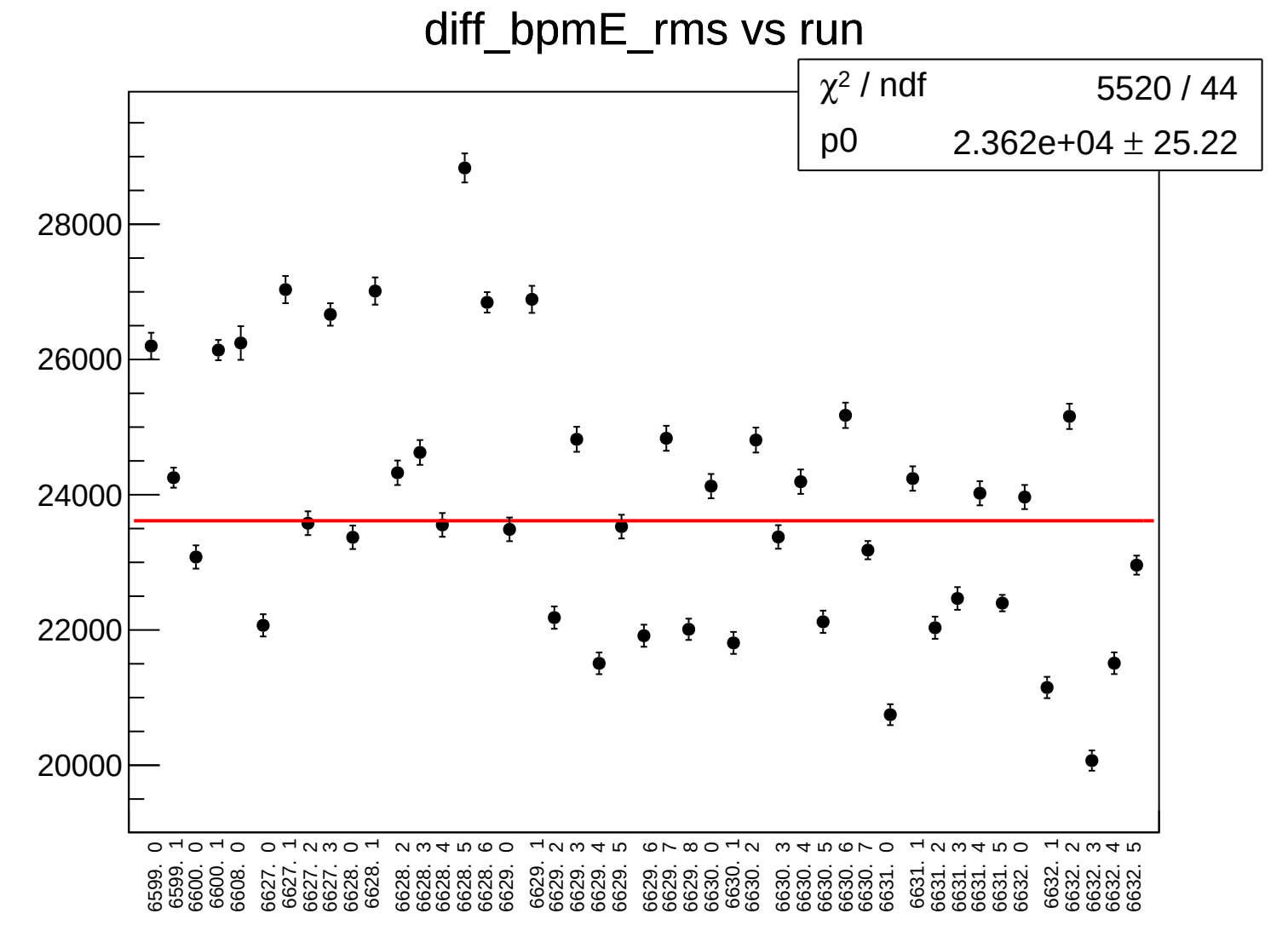

diff_targ_thetaY_mean vs run
χ² / ndf 59.7 / 44
p0 0.1948 ± 0.6728
15
10
5
0
−5
−10
−15
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −413.6
Std Dev 0
3
2
1
0
−1
−2

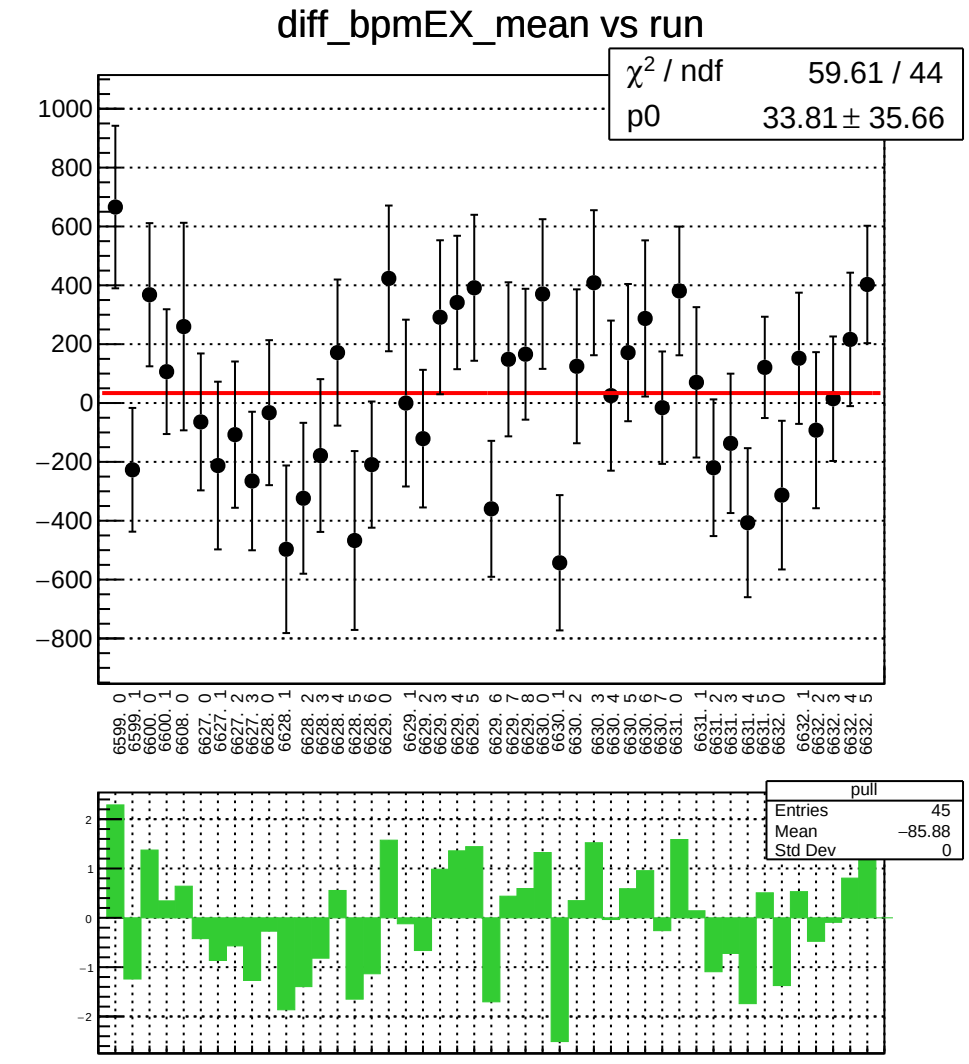

pull1D
Entries 45
Mean −0.003254
Std Dev 1.152
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

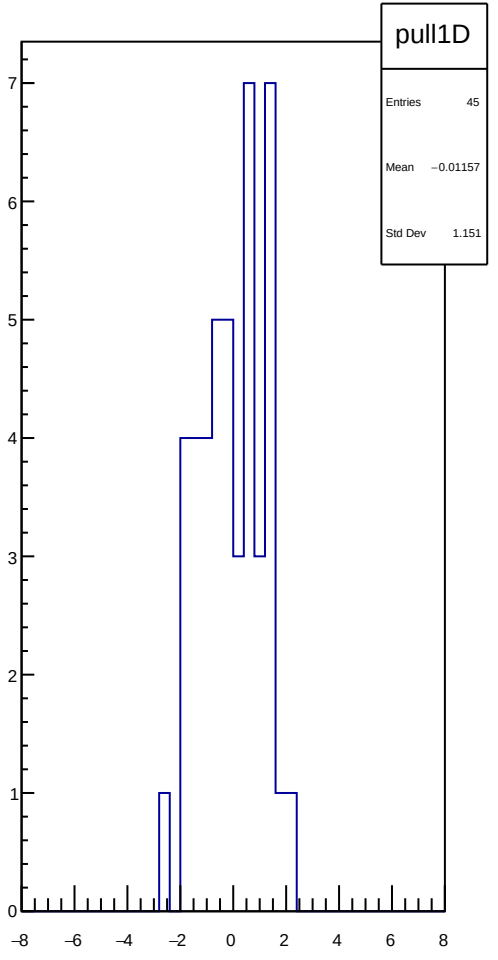

diff_targ_thetaY_rms vs run
χ² / ndf 5668 / 44
p0 445.5 ± 0.4758
520
500
480
460
440
420
400
380
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

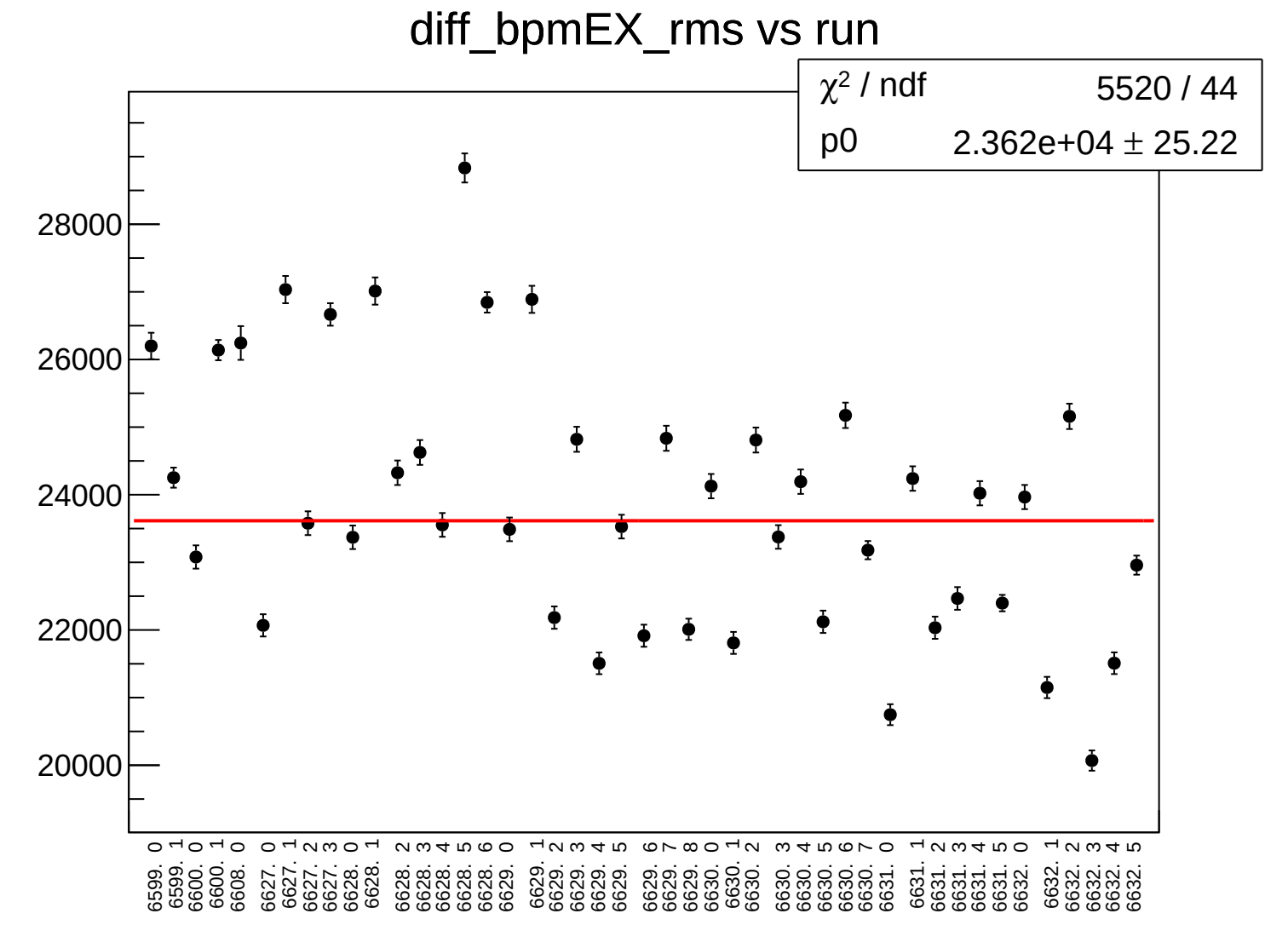

diff_bpmE_mean vs run
χ² / ndf 59.61 / 44
p0 33.81 ± 35.66
1000
800
600
400
200
0
−200
−400
−600
−800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −85.88
Std Dev 0
2
1
0
−1
−2

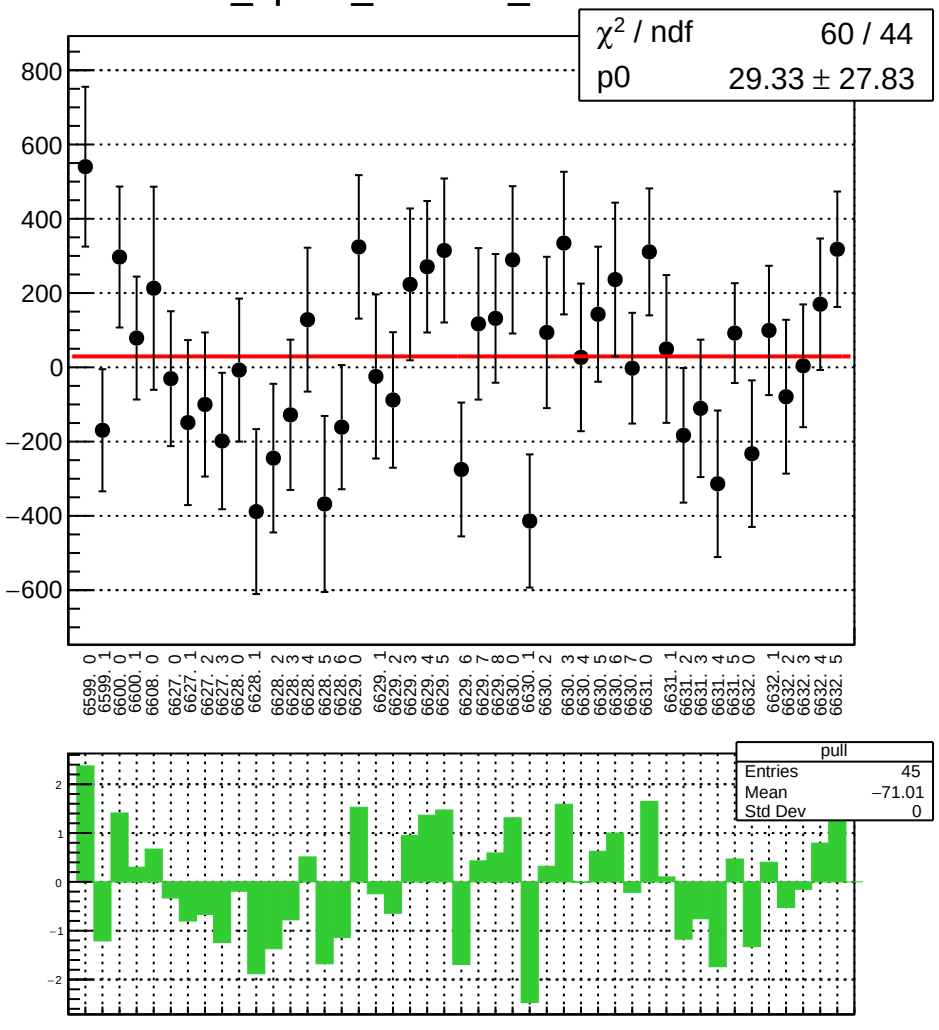

pull1D
Entries 45
Mean −0.01157
Std Dev 1.151
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

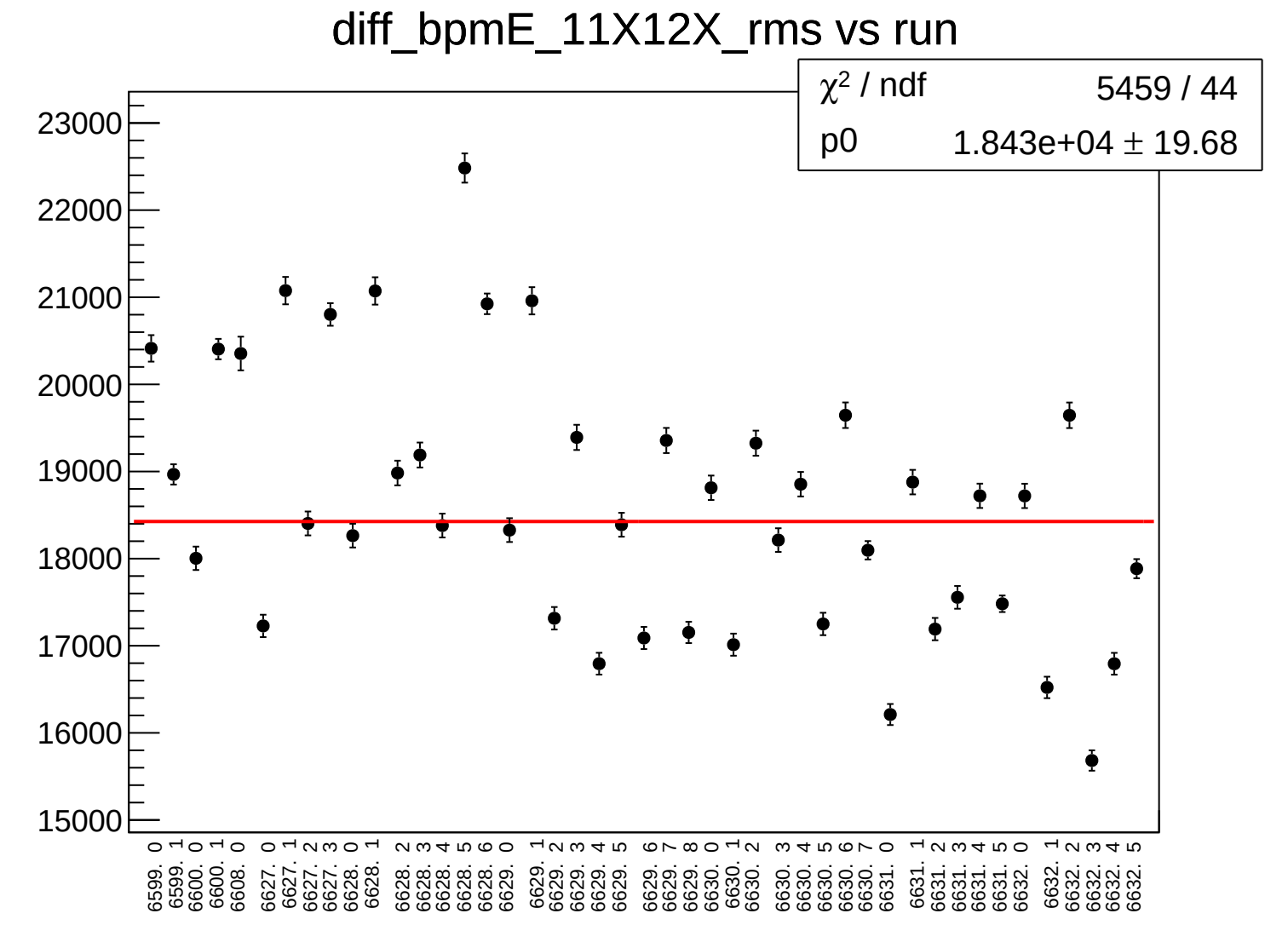

diff_bpmE_rms vs run
χ² / ndf 5520 / 44
p0 2.362e+04 ± 25.22
28000
26000
24000
22000
20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

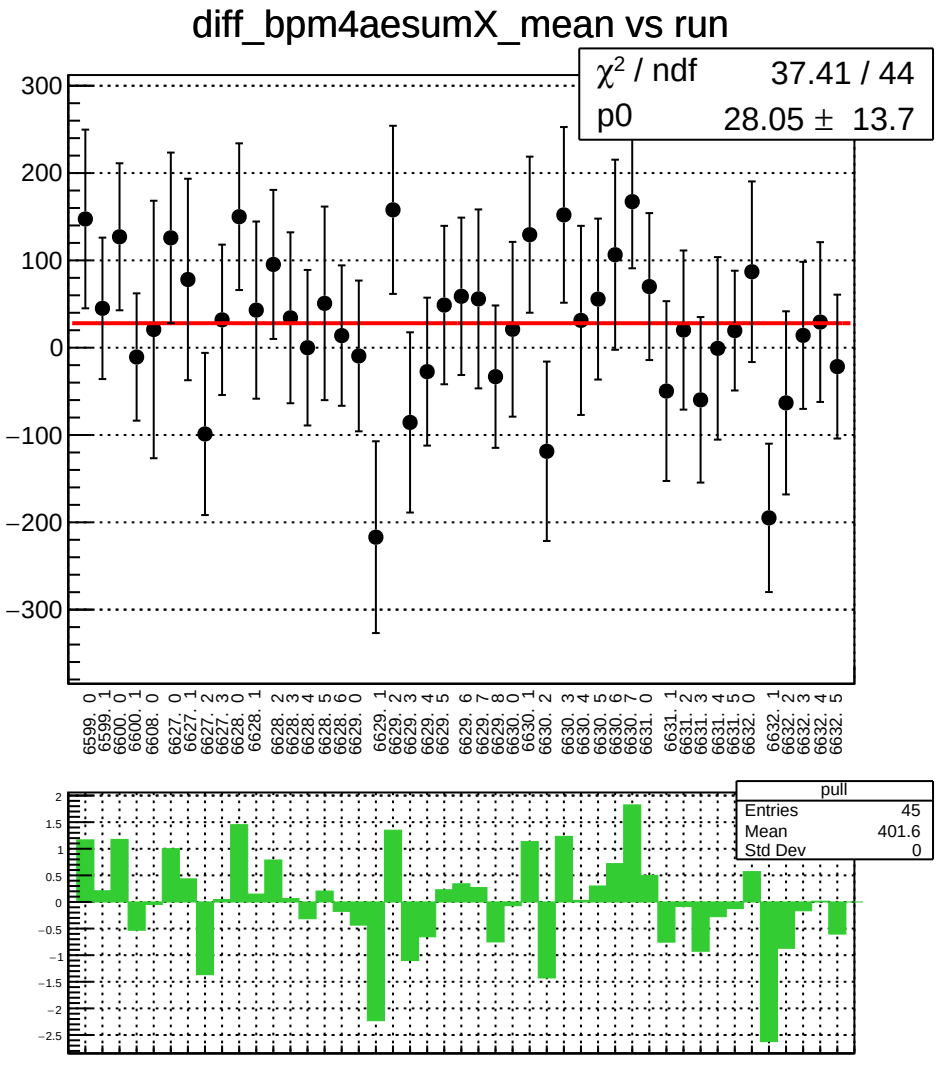

diff_bpmEX_mean vs run
χ² / ndf 59.61 / 44
p0 33.81 ± 35.66
1000
800
600
400
200
0
−200
−400
−600
−800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −85.88
Std Dev 0
2
1
0
−1
−2

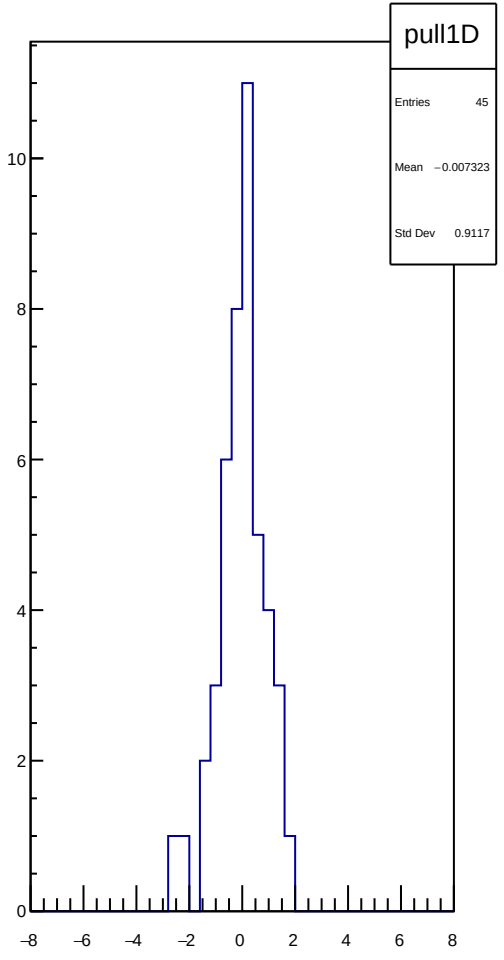

pull1D
Entries 45
Mean −0.01157
Std Dev 1.151
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

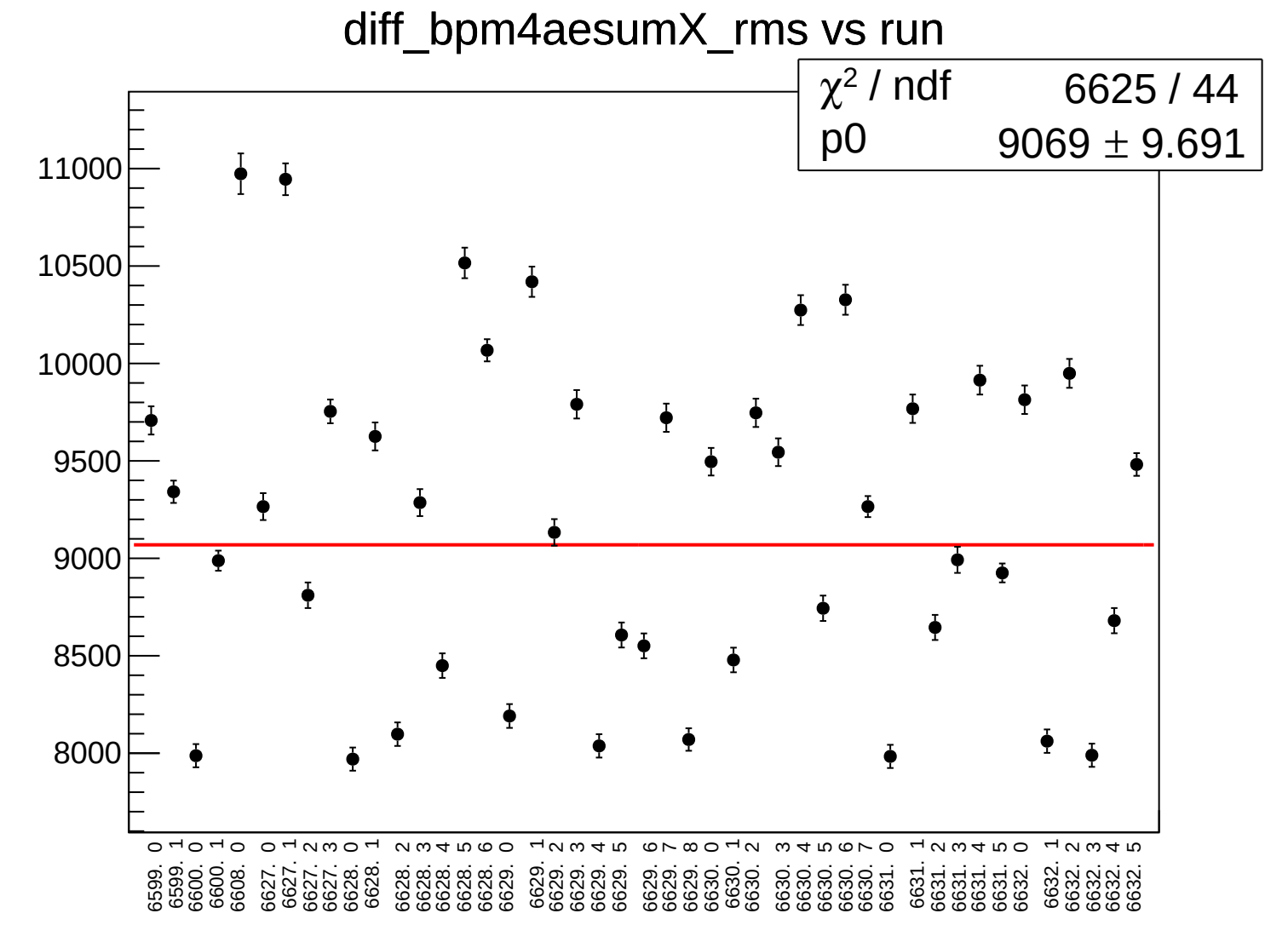

diff_bpmEX_rms vs run
χ² / ndf 5520 / 44
p0 2.362e+04 ± 25.22
28000
26000
24000
22000
20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

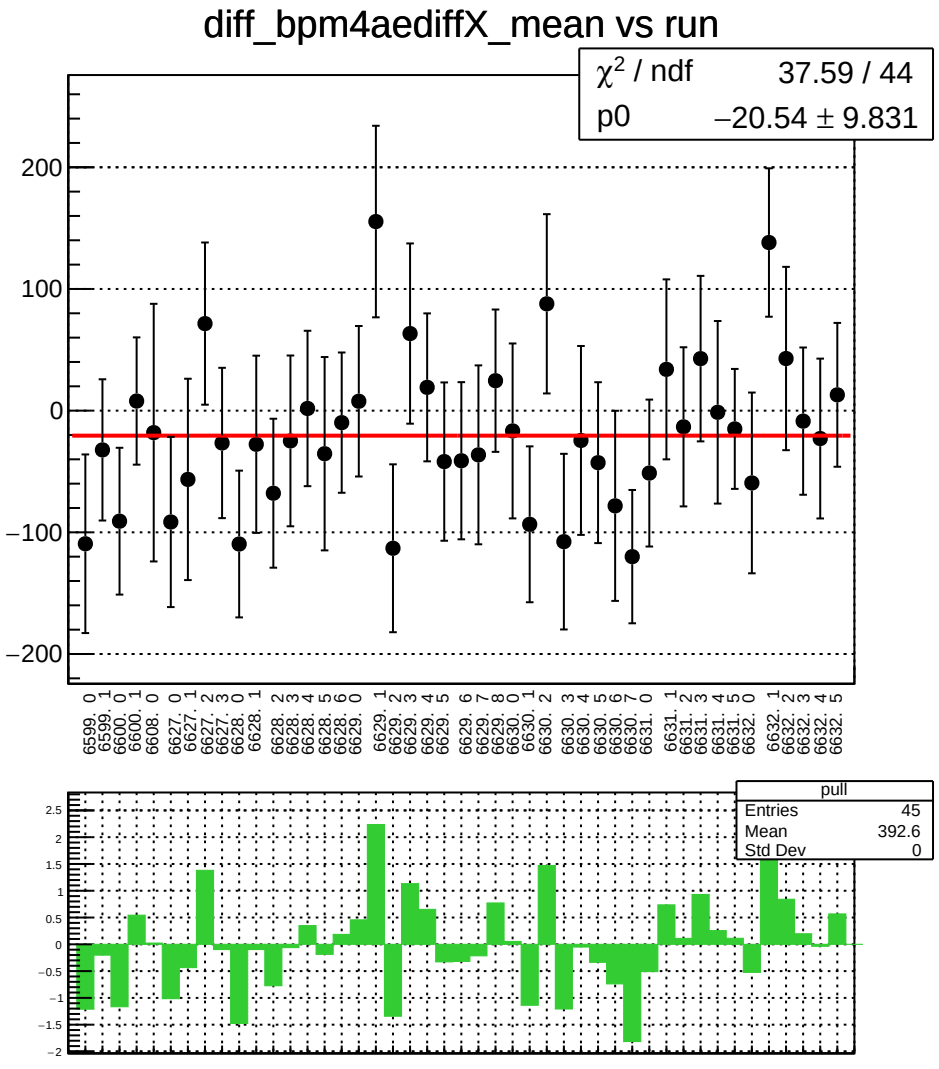

diff_bpmE_11X12X_mean vs run
χ² / ndf 60 / 44
p0 29.33 ± 27.83
pull
Entries 45
Mean −71.01
Std Dev 0
pull1D
Entries 45
Mean −0.01139
Std Dev 1.155

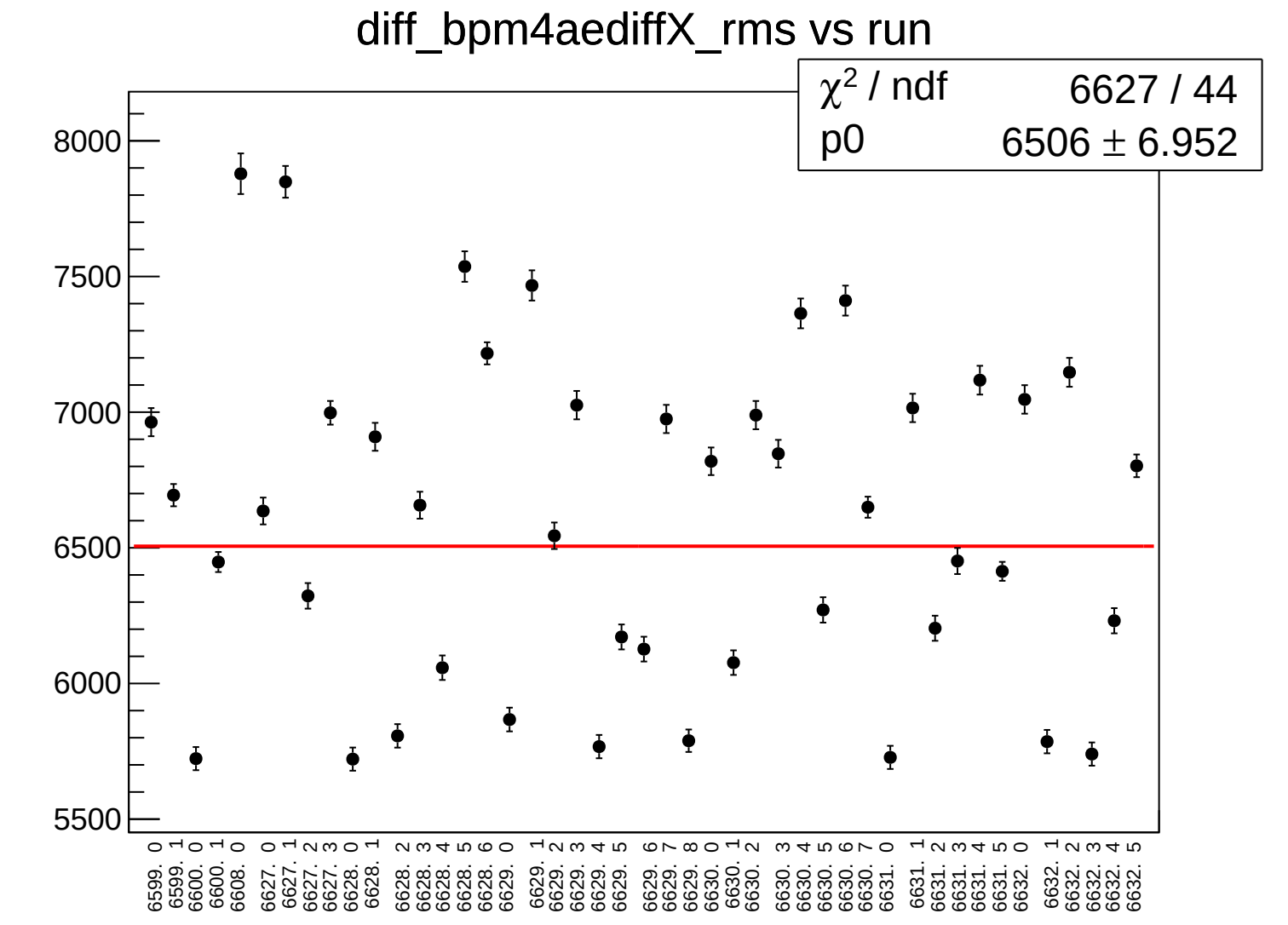

diff_bpmE_11X12X_rms vs run
χ² / ndf 5459 / 44
p0 1.843e+04 ± 19.68
23000
22000
21000
20000
19000
18000
17000
16000
15000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

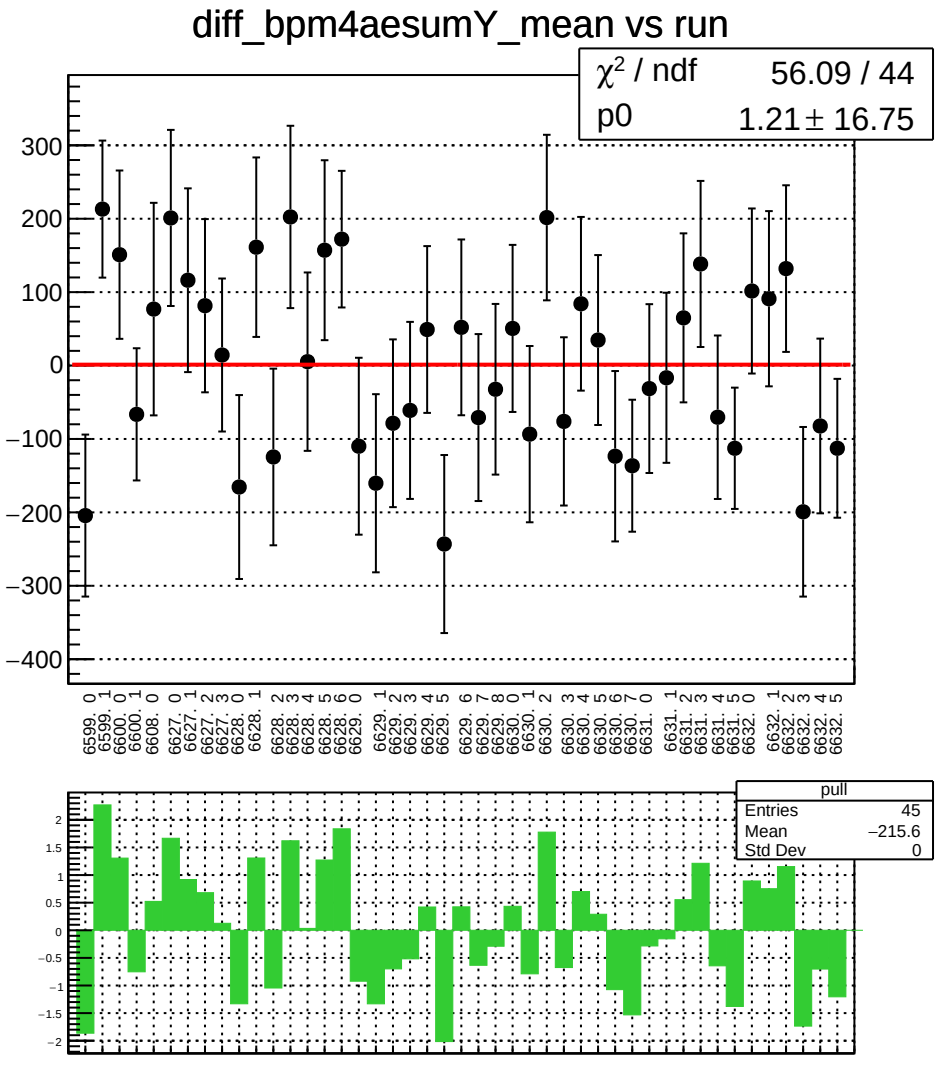

diff_bpm4aesumX_mean vs run
χ² / ndf 37.41 / 44
p0 28.05 ± 13.7
pull
Entries 45
Mean 401.6
Std Dev 0

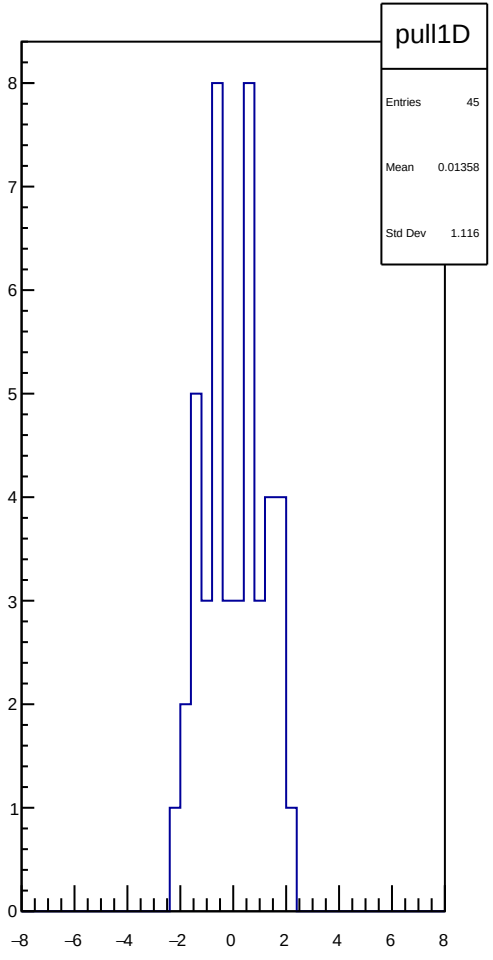

pull1D
Entries 45
Mean −0.007323
Std Dev 0.9117

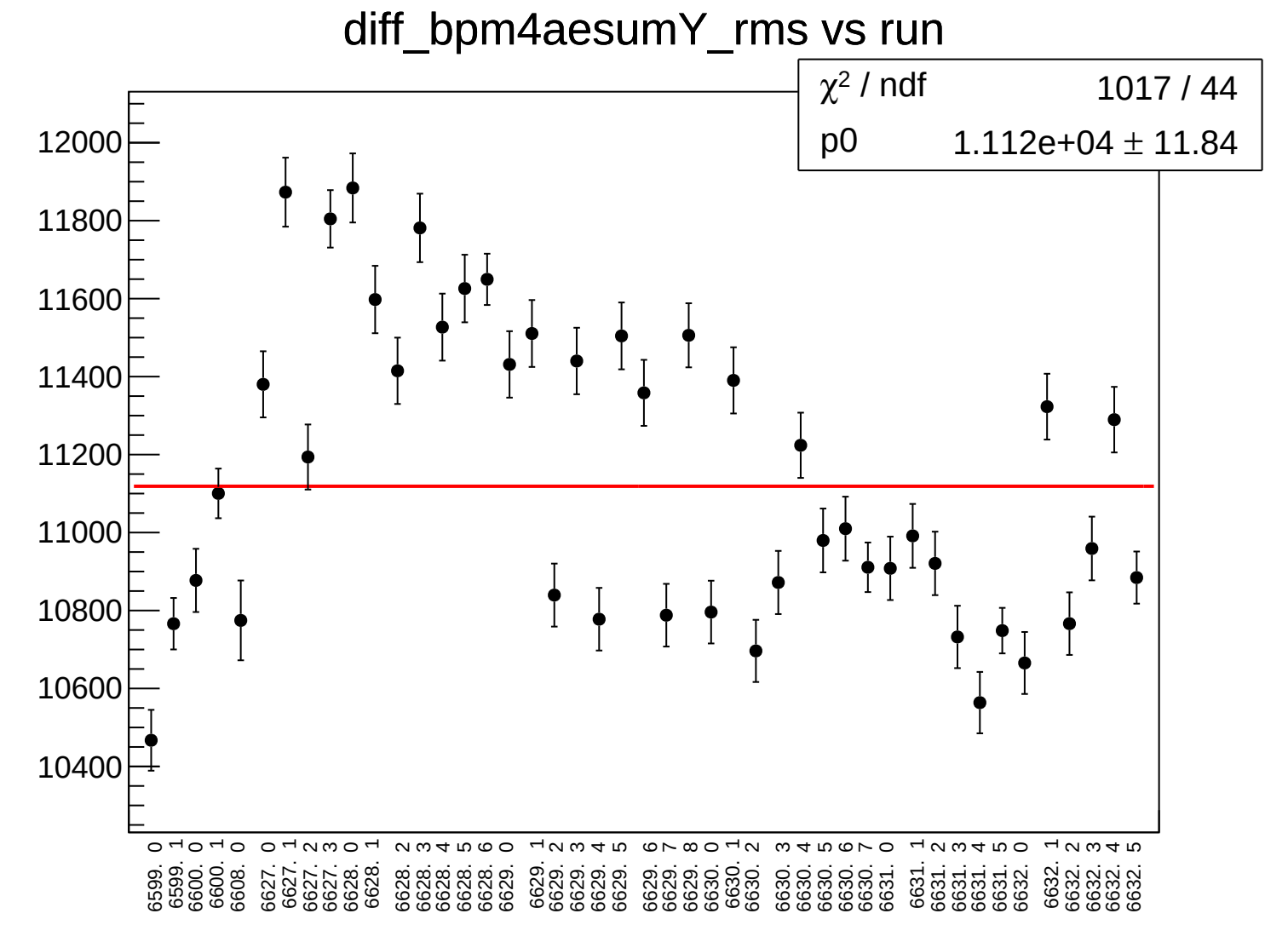

diff_bpm4aesumX_rms vs run
χ² / ndf 6625 / 44
p0 9069 ± 9.691
11000
10500
10000
9500
9000
8500
8000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

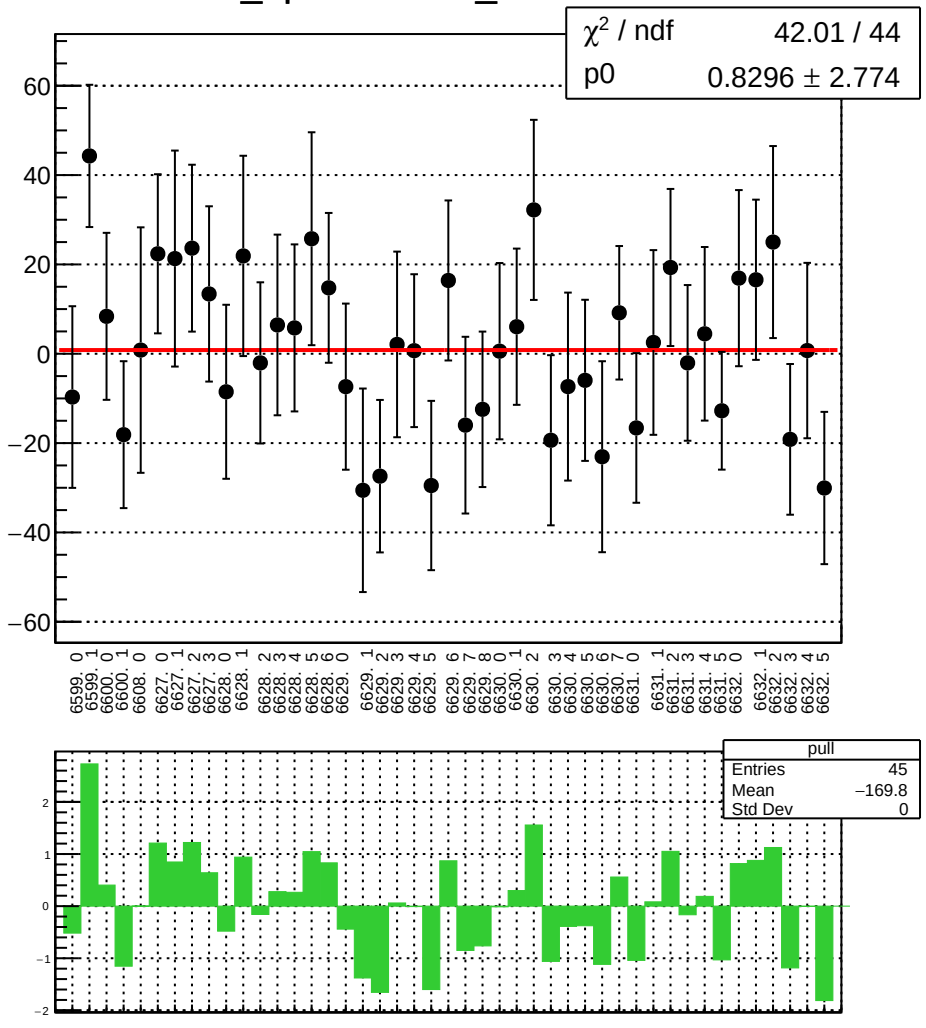

diff_bpm4aediffX_mean vs run
χ² / ndf 37.59 / 44
p0 −20.54 ± 9.831
200
100
0
−100
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 392.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.007448
Std Dev 0.914
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

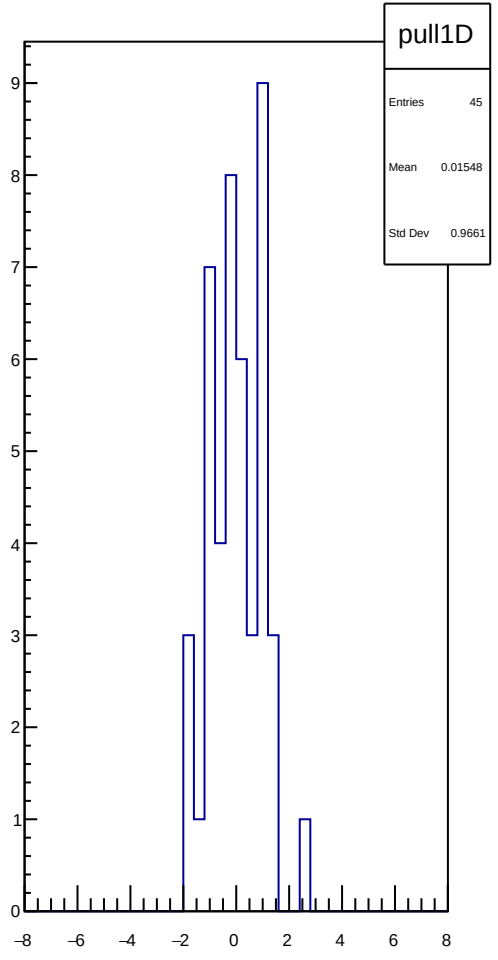

diff_bpm4aediffX_rms vs run
χ² / ndf 6627 / 44
p0 6506 ± 6.952
8000
7500
7000
6500
6000
5500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

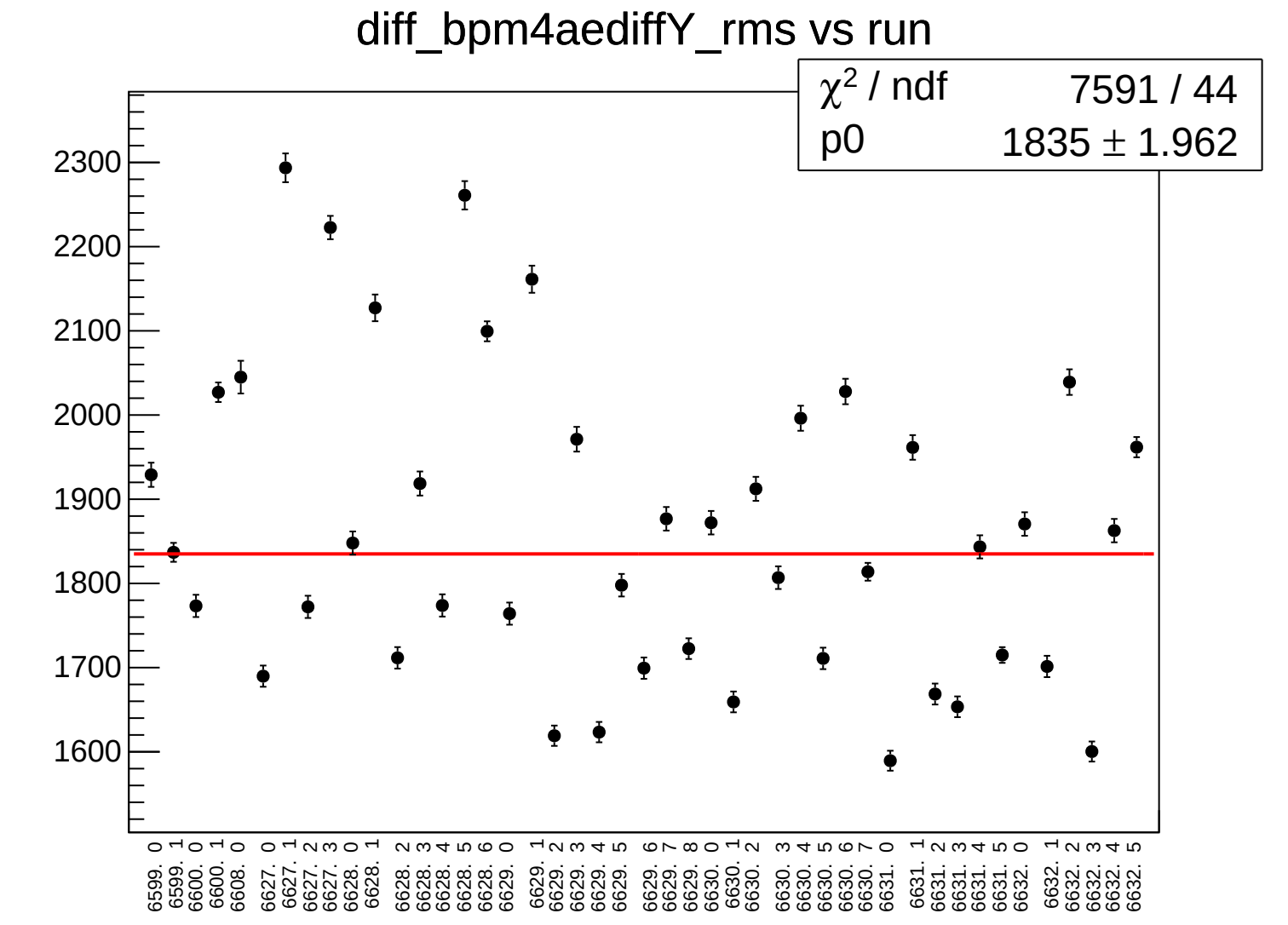

diff_bpm4aesumY_mean vs run
χ² / ndf 56.09 / 44
p0 1.21 ± 16.75
300
200
100
0
−100
−200
−300
−400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −215.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

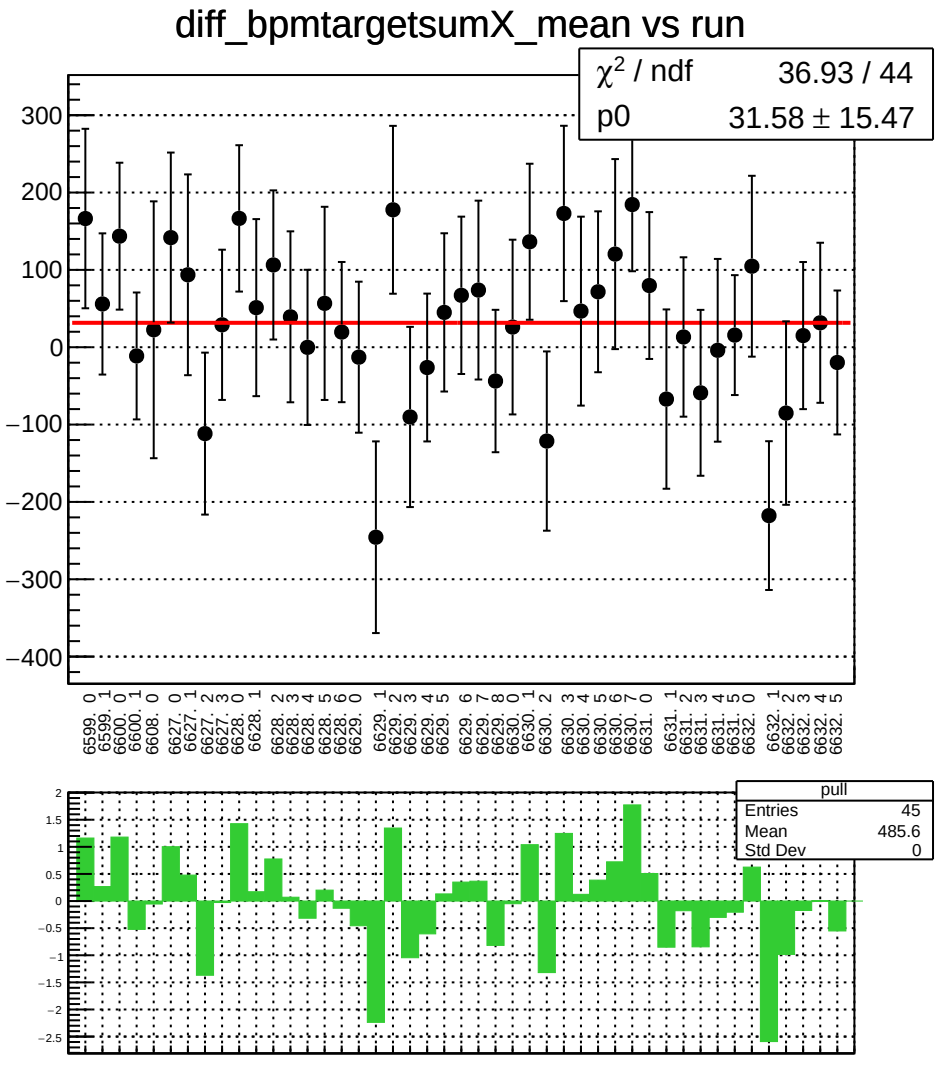

pull1D
Entries 45
Mean 0.01358
Std Dev 1.116
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

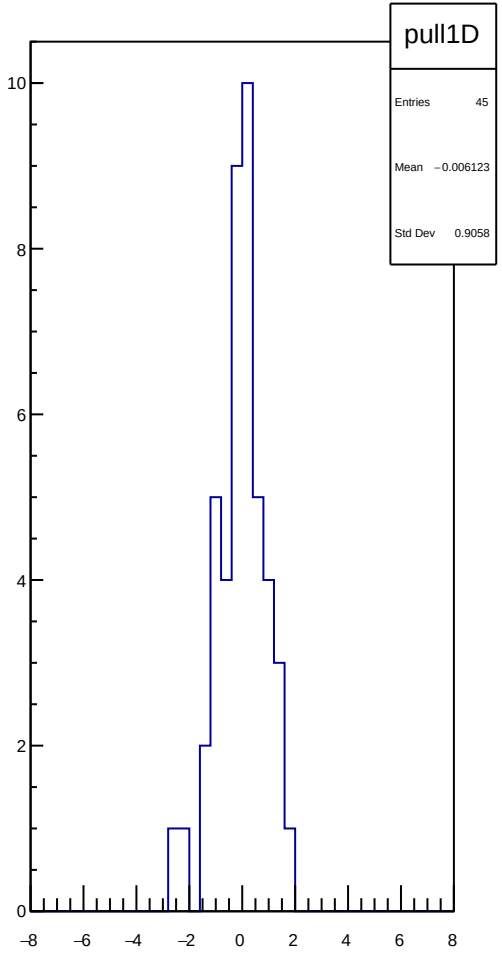

diff_bpm4aesumY_rms vs run
χ² / ndf 1017 / 44
p0 1.112e+04 ± 11.84
12000
11800
11600
11400
11200
11000
10800
10600
10400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

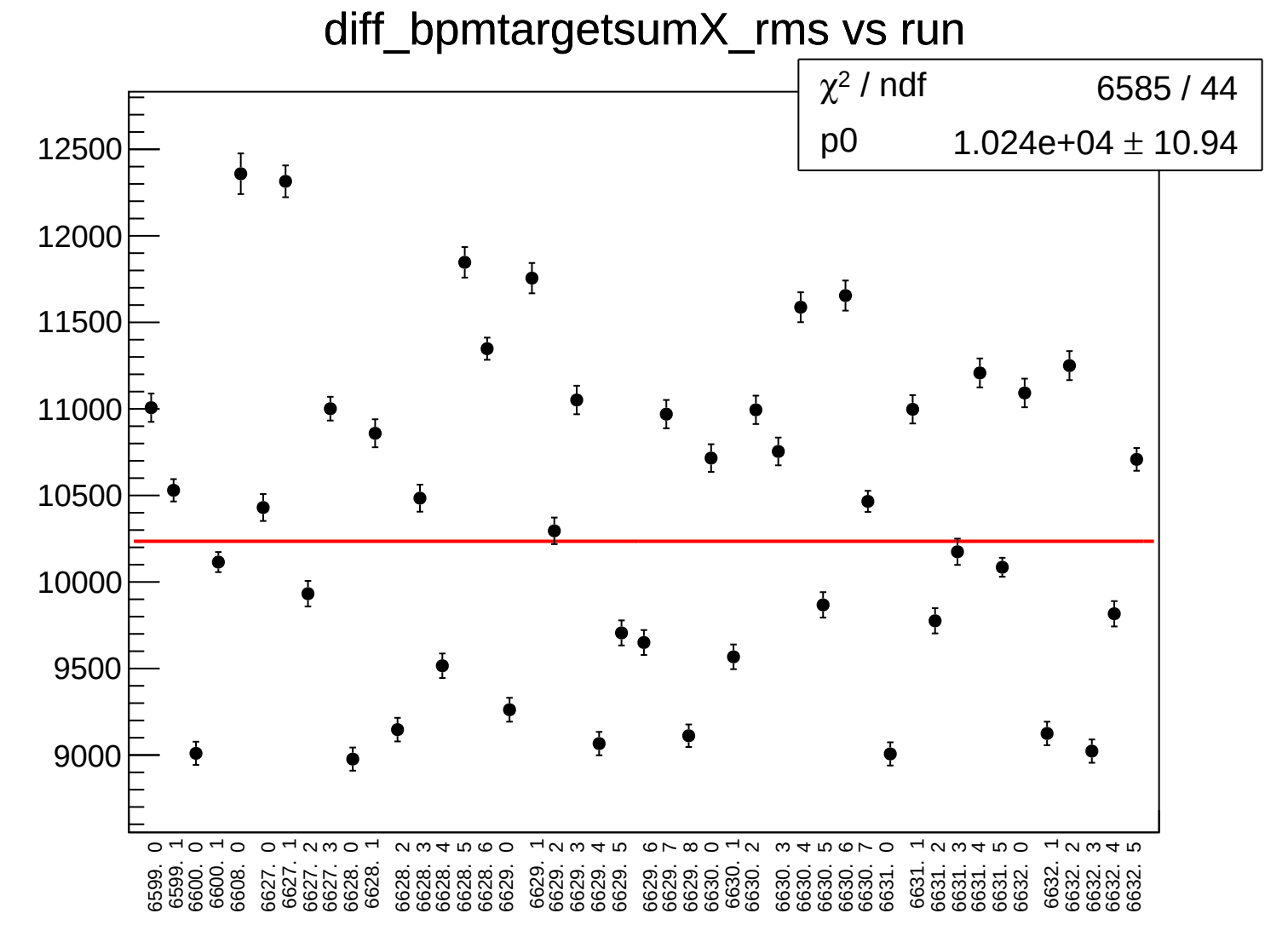

diff_bpm4aediffY_mean vs run
χ² / ndf 42.01 / 44
p0 0.8296 ± 2.774
pull
Entries 45
Mean −169.8
Std Dev 0

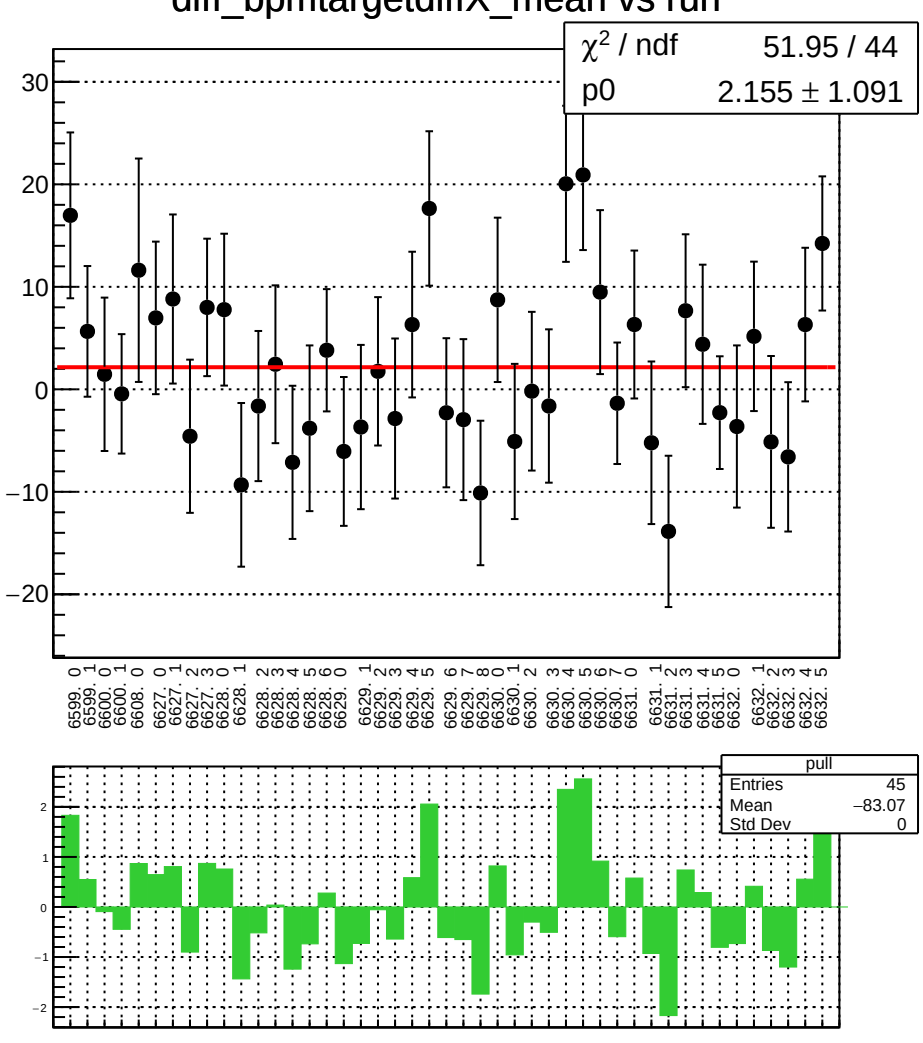

pull1D
Entries 45
Mean 0.01548
Std Dev 0.9661

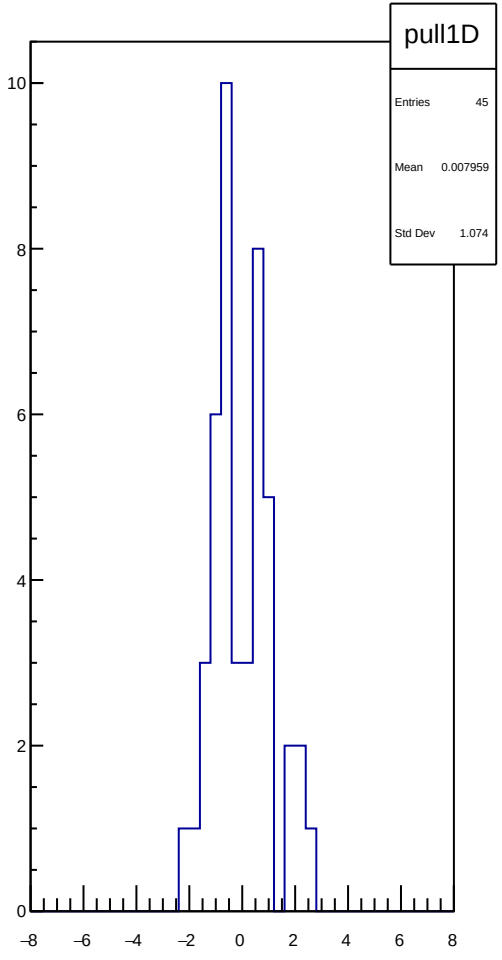

diff_bpm4aediffY_rms vs run
χ² / ndf 7591 / 44
p0 1835 ± 1.962
2300
2200
2100
2000
1900
1800
1700
1600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

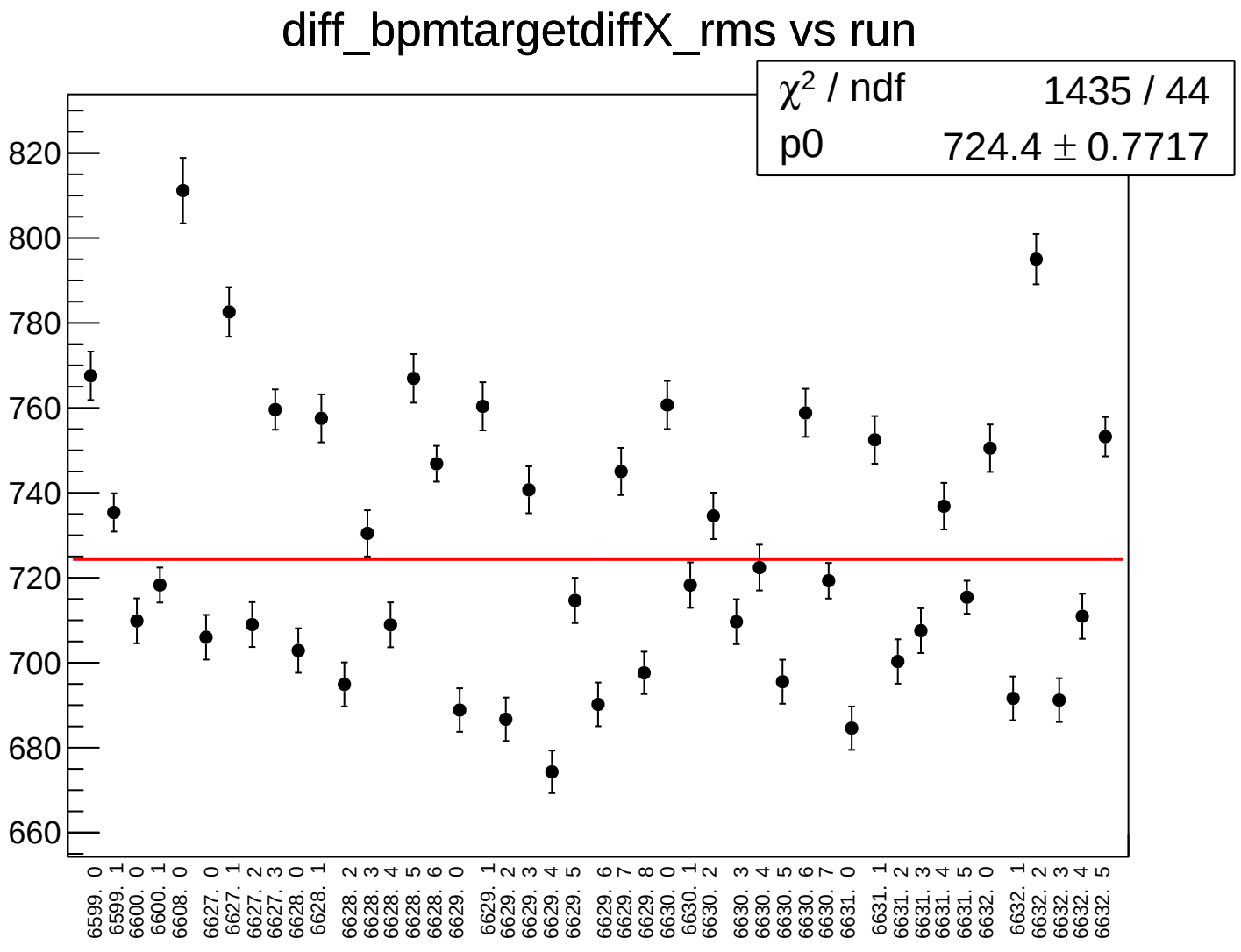

diff_bpmtargetsumX_mean vs run
χ² / ndf 36.93 / 44
p0 31.58 ± 15.47
300
200
100
0
−100
−200
−300
−400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 485.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

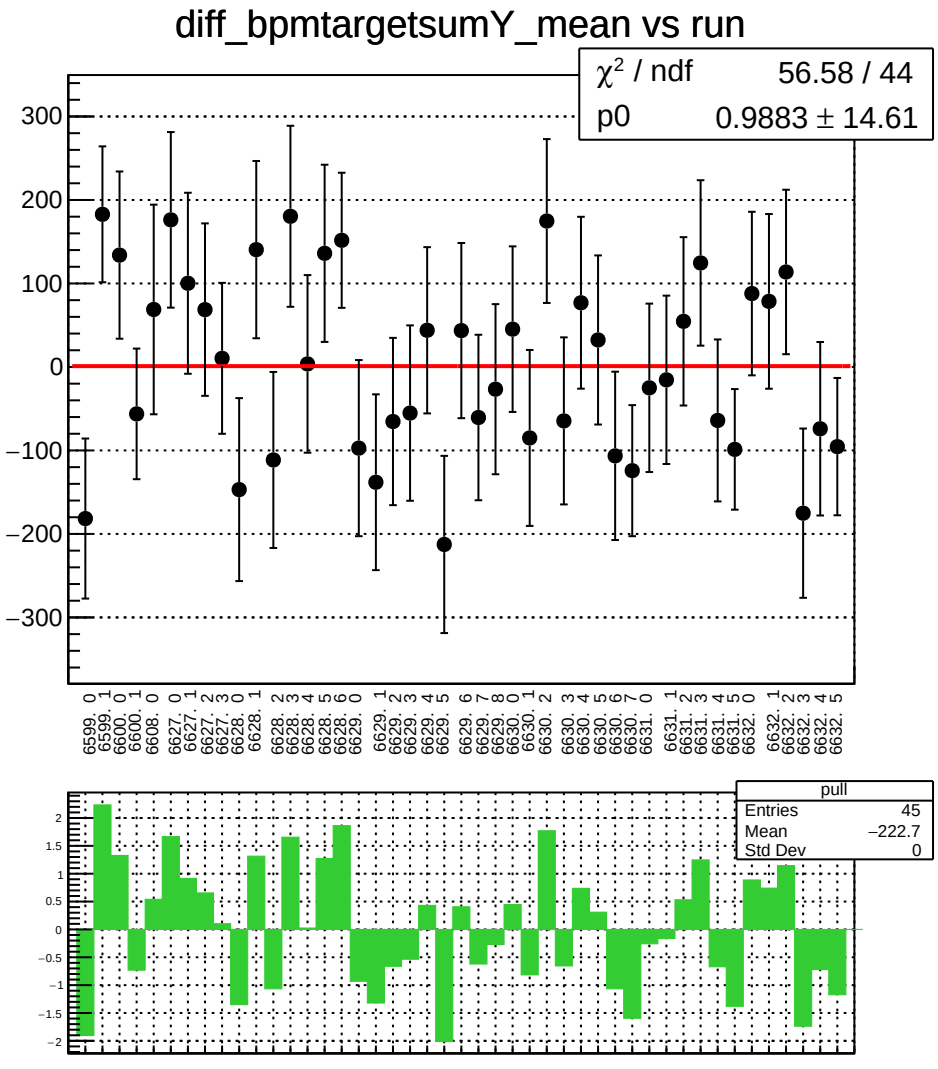

pull1D
Entries 45
Mean −0.006123
Std Dev 0.9058
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

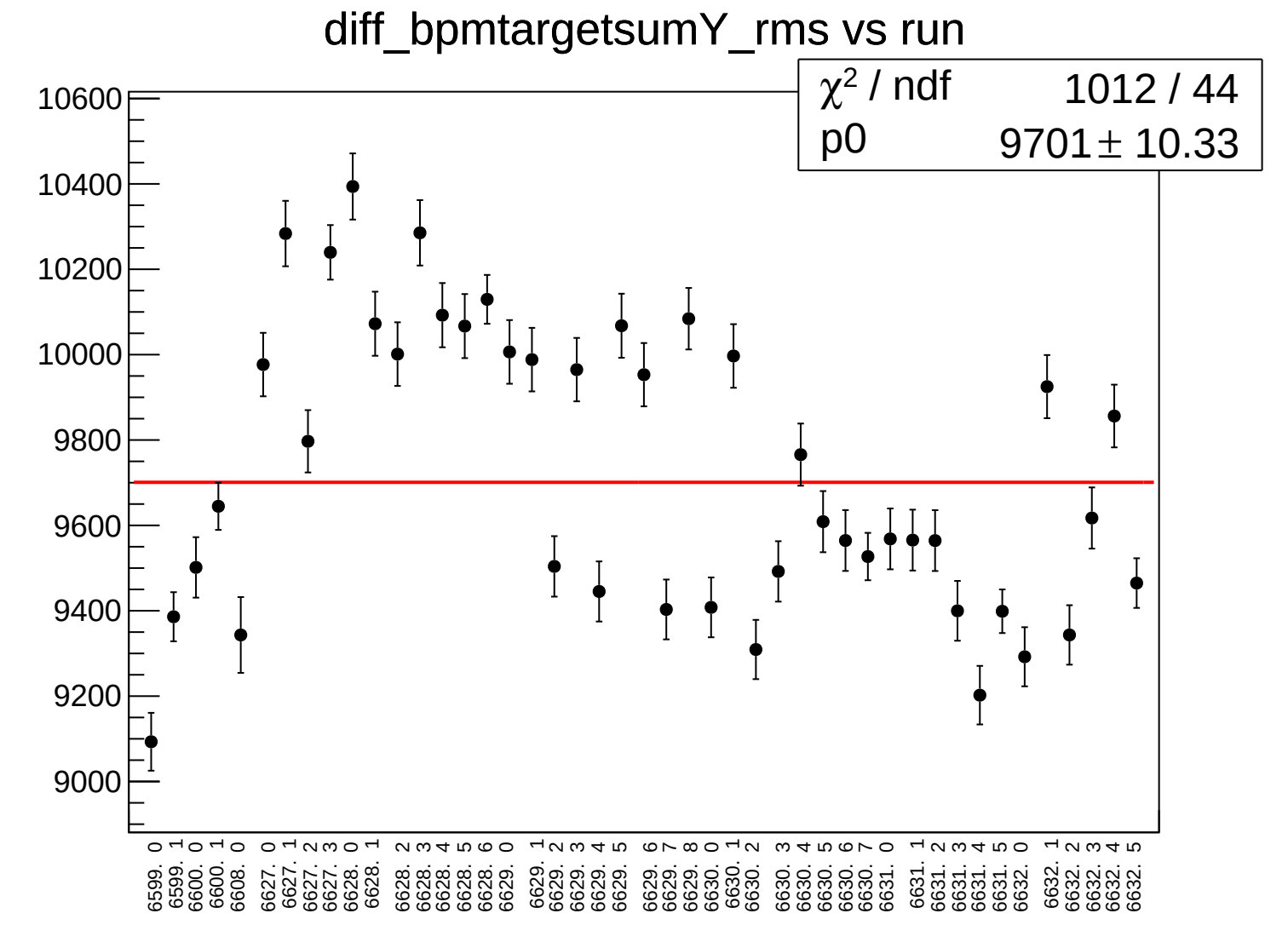

diff_bpmtargetsumX_rms vs run
χ² / ndf 6585 / 44
p0 1.024e+04 ± 10.94
12500
12000
11500
11000
10500
10000
9500
9000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

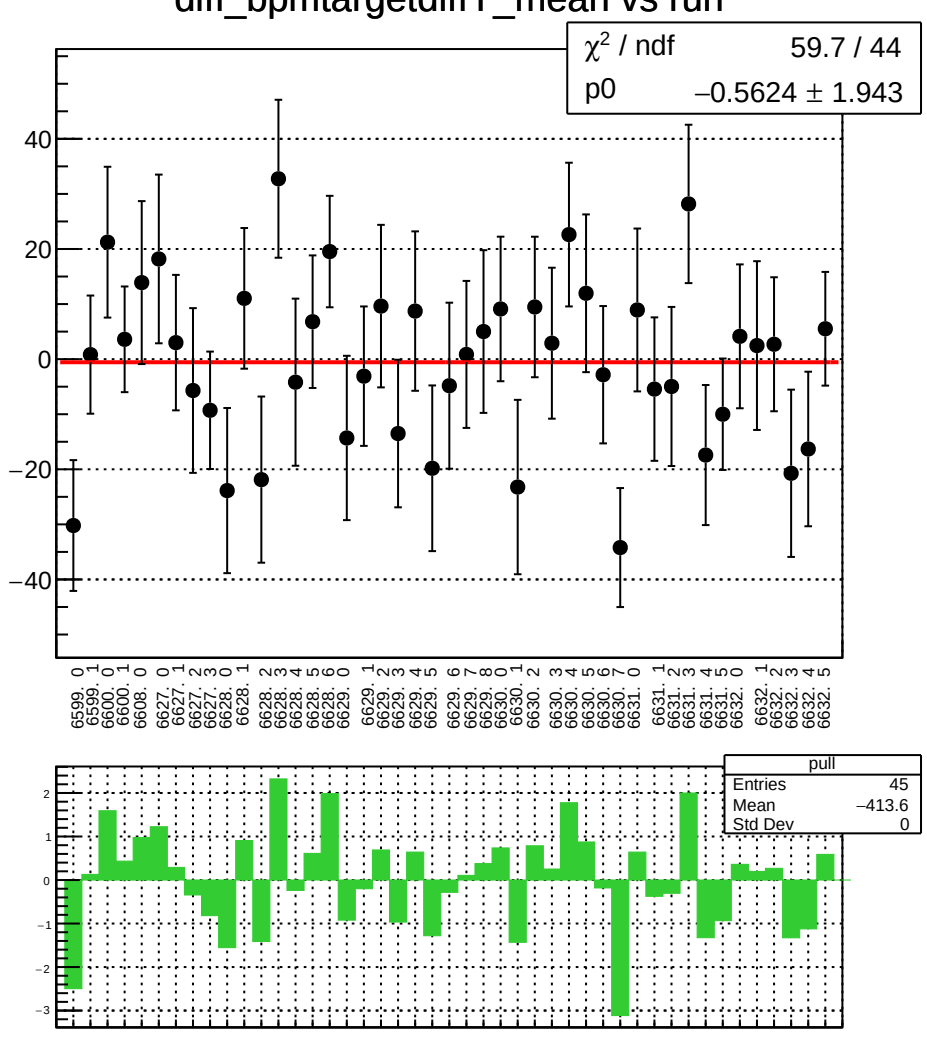

diff_bpmtargetdiffX_mean vs run
χ² / ndf 51.95 / 44
p0 2.155 ± 1.091
30
20
10
0
−10
−20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −83.07
Std Dev 0
2
1
0
−1
−2

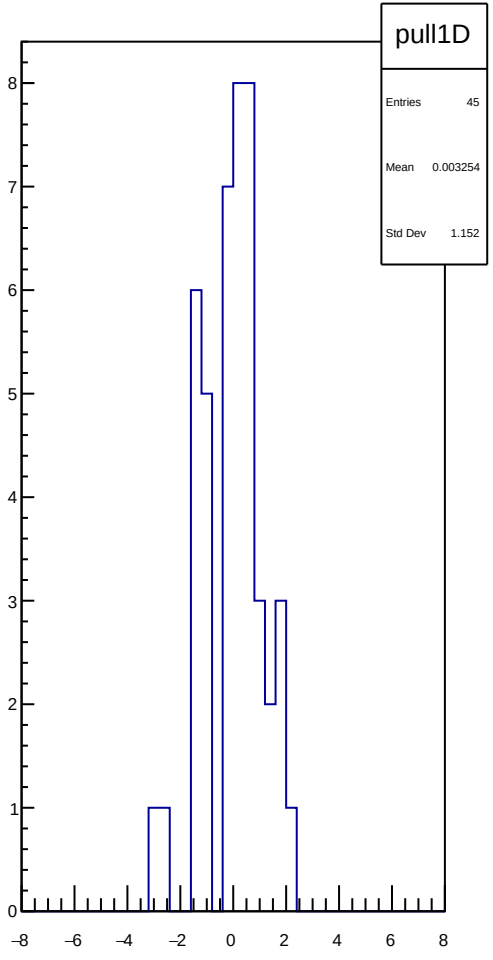

pull1D
Entries 45
Mean 0.007959
Std Dev 1.074
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

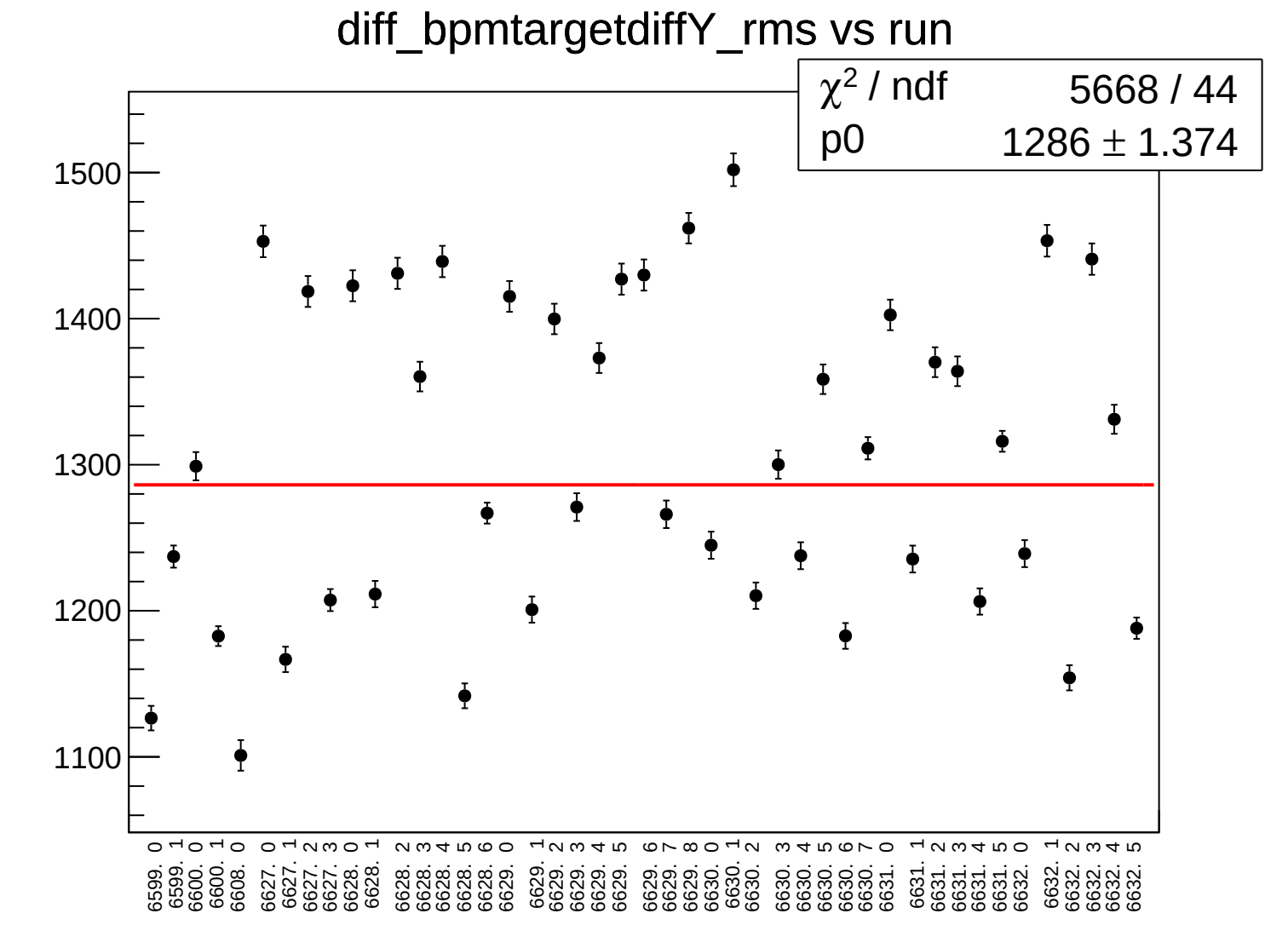

diff_bpmtargetdiffX_rms vs run
χ² / ndf 1435 / 44
p0 724.4 ± 0.7717
820
800
780
760
740
720
700
680
660
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

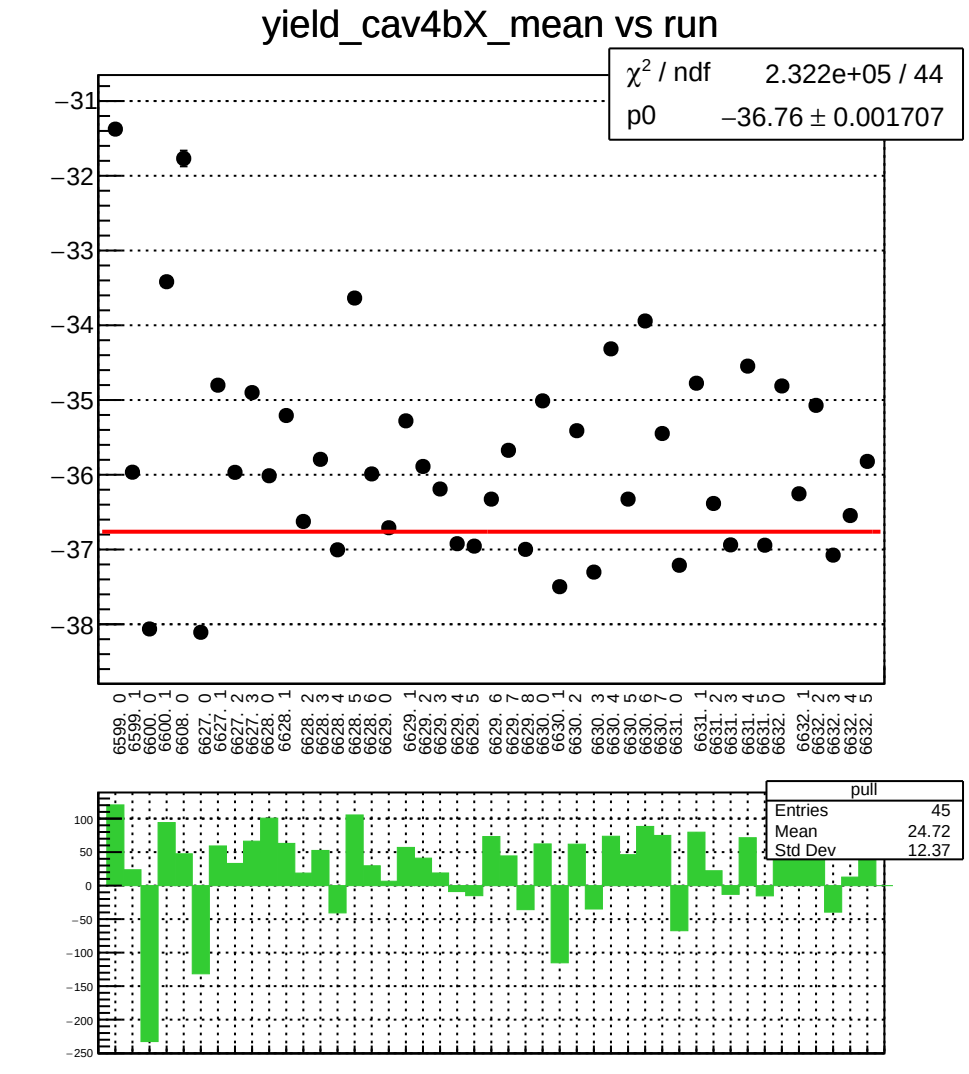

diff_bpmtargetsumY_mean vs run
χ² / ndf 56.58 / 44
p0 0.9883 ± 14.61
300
200
100
0
−100
−200
−300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −222.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01311
Std Dev 1.121
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

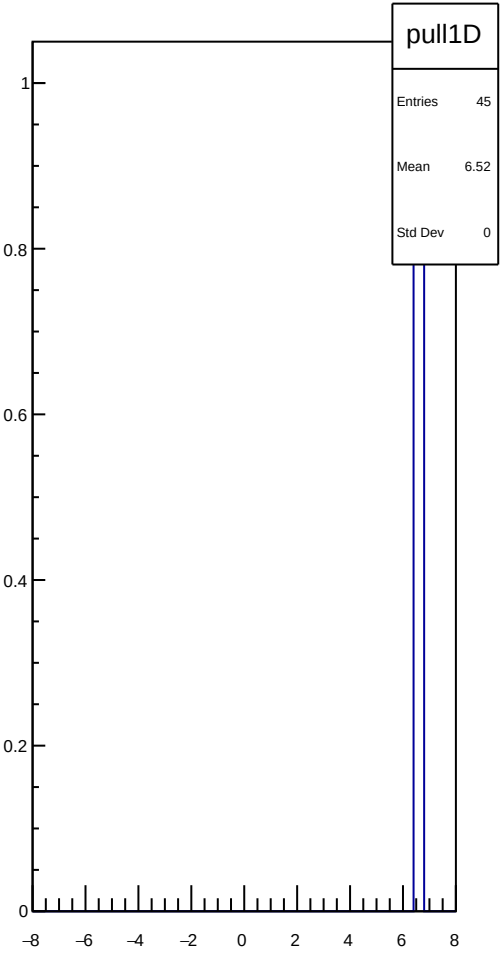

diff_bpmtargetsumY_rms vs run
χ² / ndf 1012 / 44
p0 9701 ± 10.33
10600
10400
10200
10000
9800
9600
9400
9200
9000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

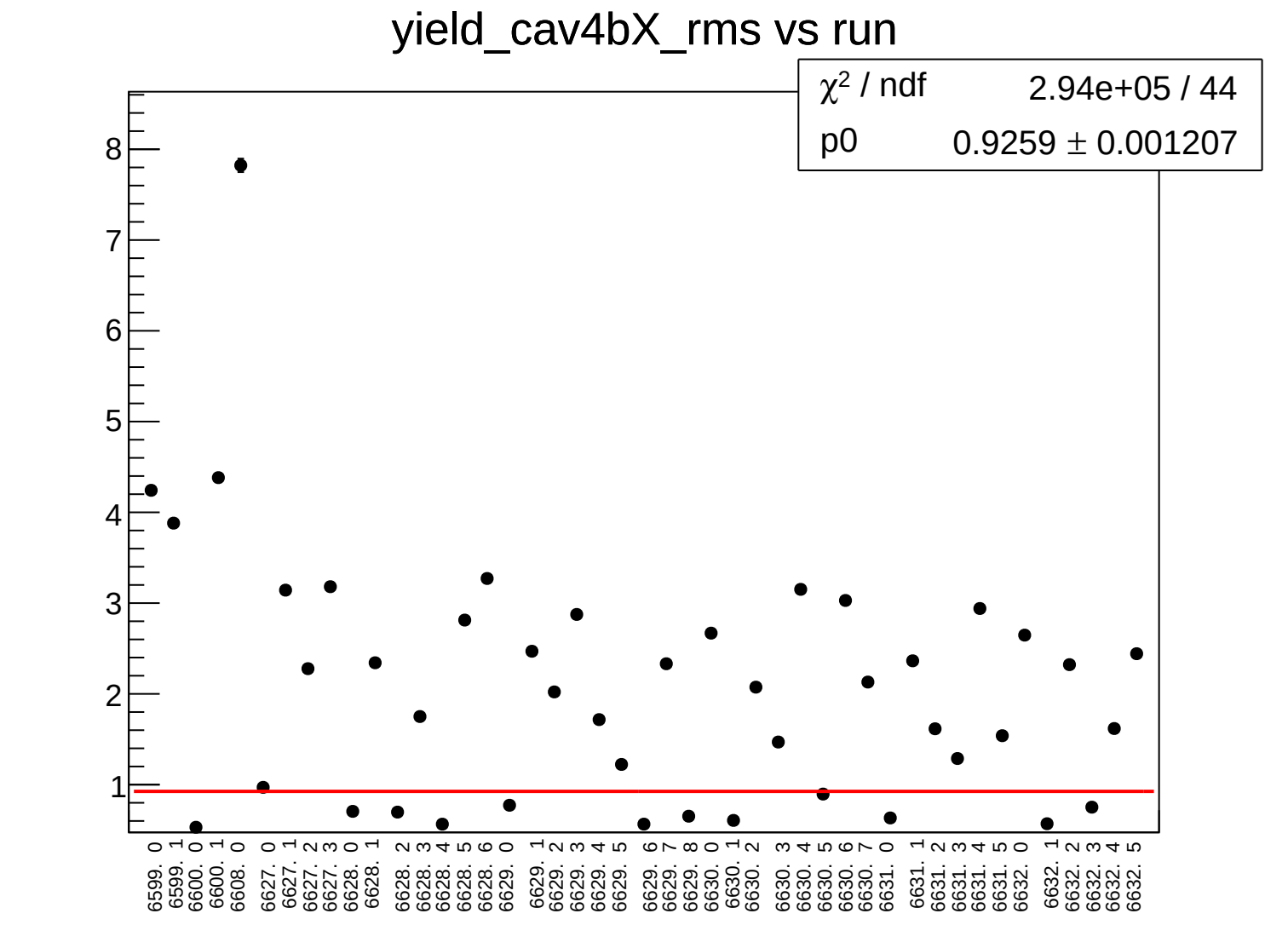

diff_bpmtargetdiffY_mean vs run
χ² / ndf 59.7 / 44
p0 −0.5624 ± 1.943
40
20
0
−20
−40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −413.6
Std Dev 0
2
1
0
−1
−2
−3

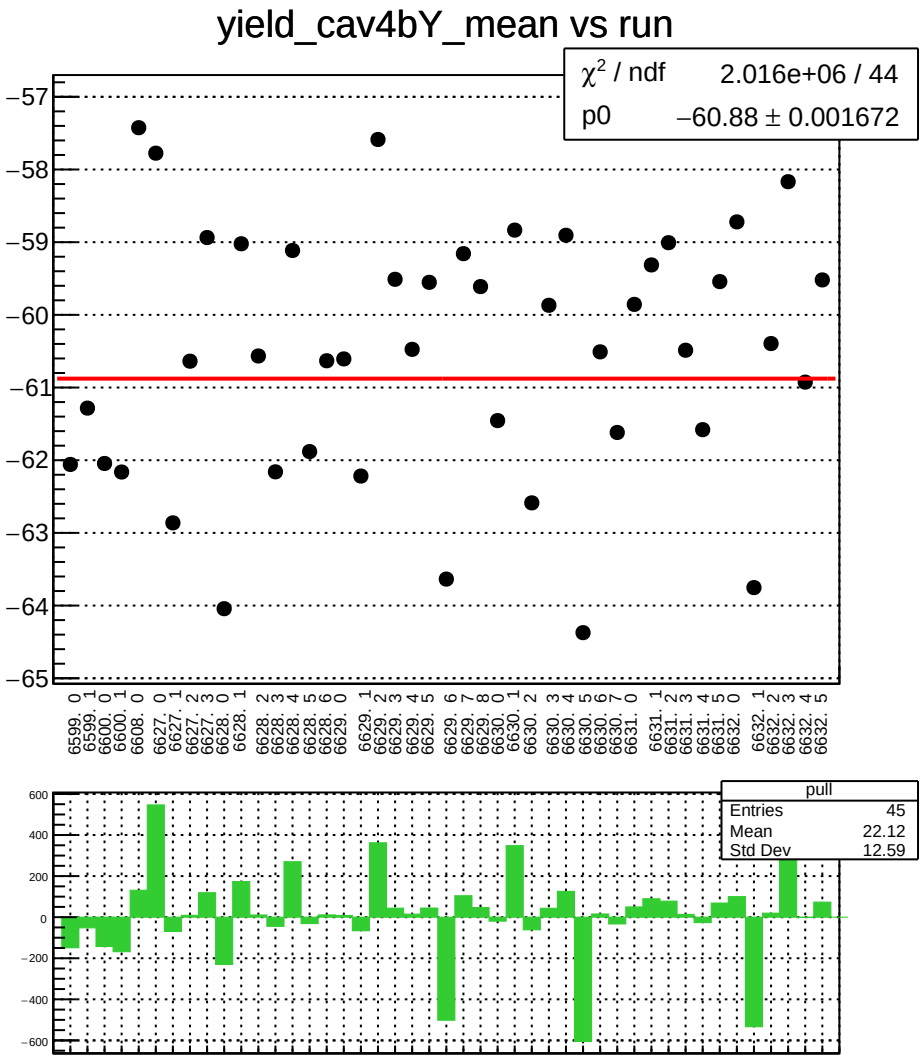

pull1D
Entries 45
Mean 0.003254
Std Dev 1.152
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

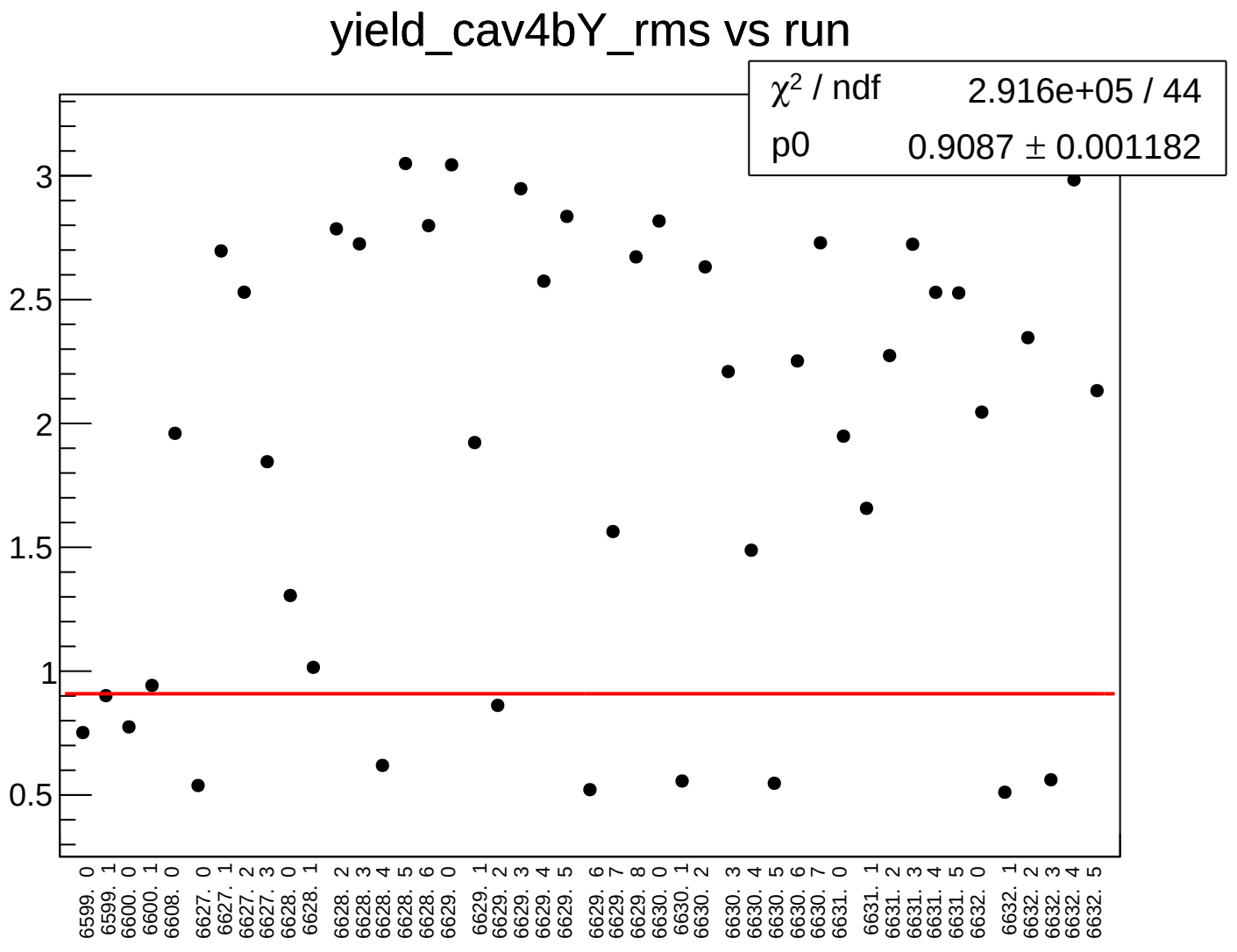

diff_bpmtargetdiffY_rms vs run
χ² / ndf 5668 / 44
p0 1286 ± 1.374
1500
1400
1300
1200
1100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

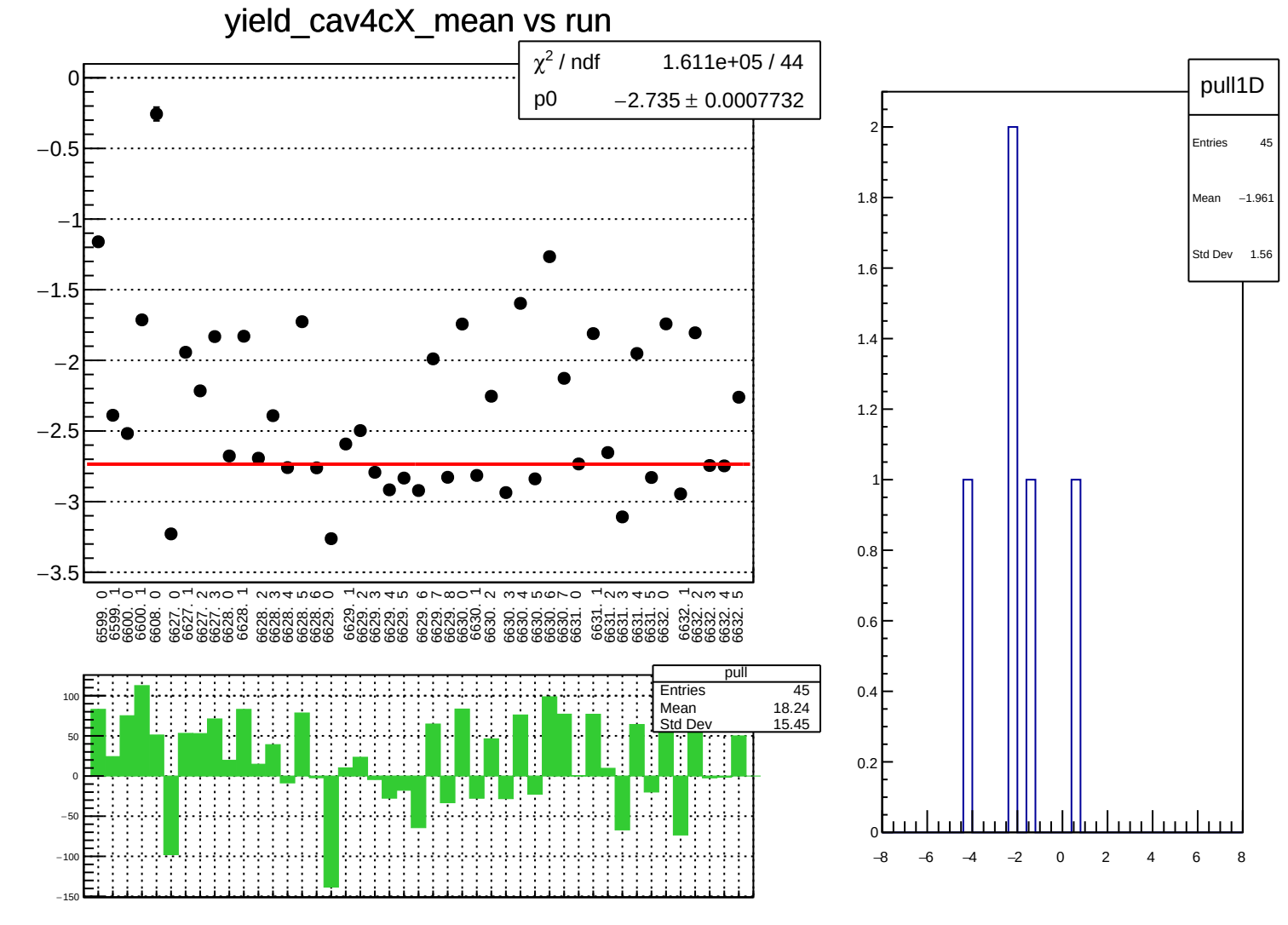

yield_cav4bX_mean vs run
χ² / ndf 2.322e+05 / 44
p0 −36.76 ± 0.001707
−31
−32
−33
−34
−35
−36
−37
−38
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 24.72
Std Dev 12.37
100
50
0
−50
−100
−150
−200
−250

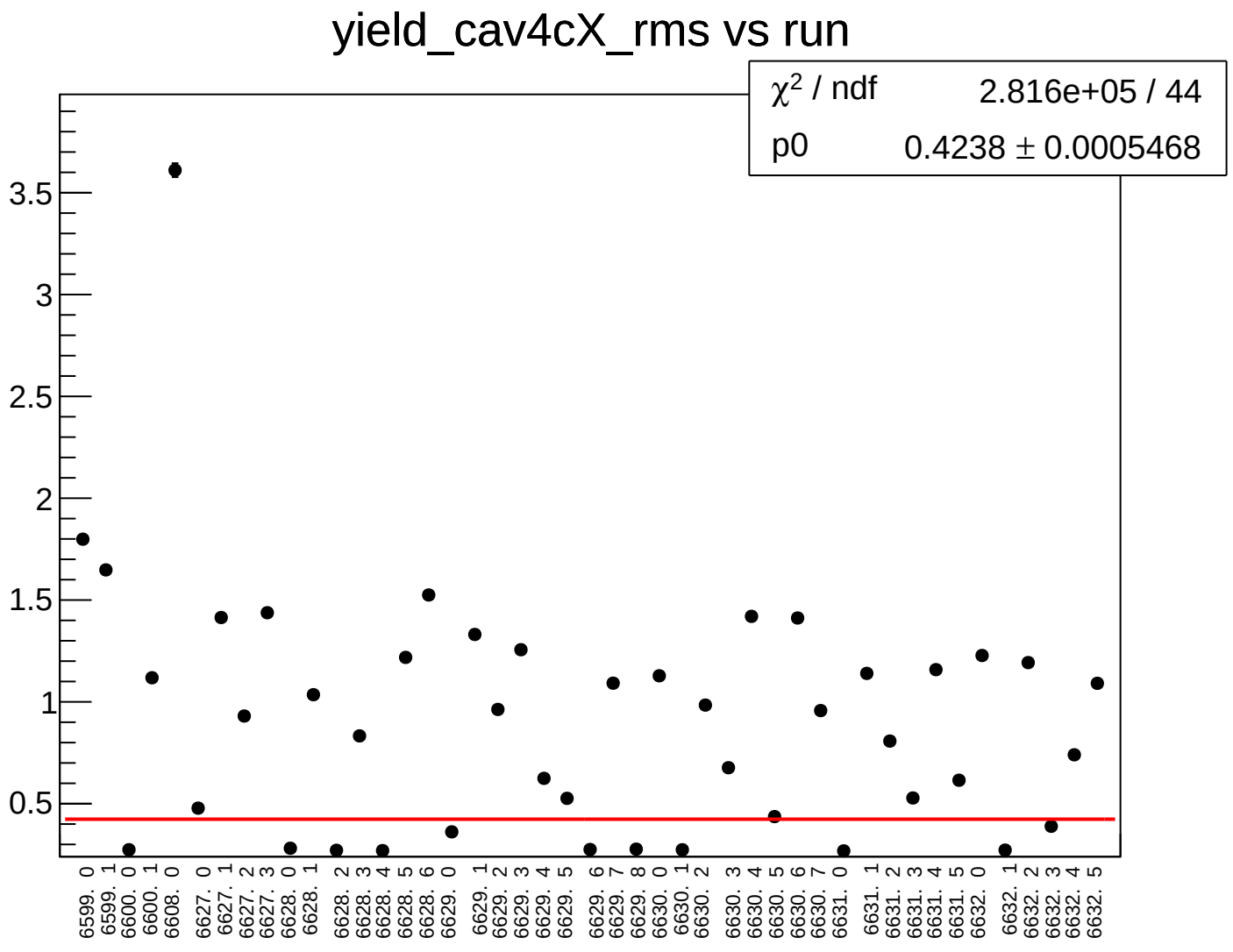

pull1D
Entries 45
Mean 6.52
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_cav4bX_rms vs run
χ² / ndf 2.94e+05 / 44
p0 0.9259 ± 0.001207
8
7
6
5
4
3
2
1
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


yield_cav4bY_mean vs run
χ² / ndf 2.016e+06 / 44
p0 −60.88 ± 0.001672
−57
−58
−59
−60
−61
−62
−63
−64
−65
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 22.12
Std Dev 12.59
600
400
200
0
−200
−400
−600
pull1D
Entries 45
Mean −1.525
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 2.916e+05 / 44
p0 0.9087 ± 0.001182
3
2.5
2
1.5
1
0.5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


yield_cav4cX_mean vs run
χ² / ndf 1.611e+05 / 44
p0 −2.735 ± 0.0007732
pull
Entries 45
Mean 18.24
Std Dev 15.45
pull1D
Entries 45
Mean −1.961
Std Dev 1.56


yield_cav4cX_rms vs run
χ² / ndf 2.816e+05 / 44
p0 0.4238 ± 0.0005468
3.5
3
2.5
2
1.5
1
0.5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
6632. 0
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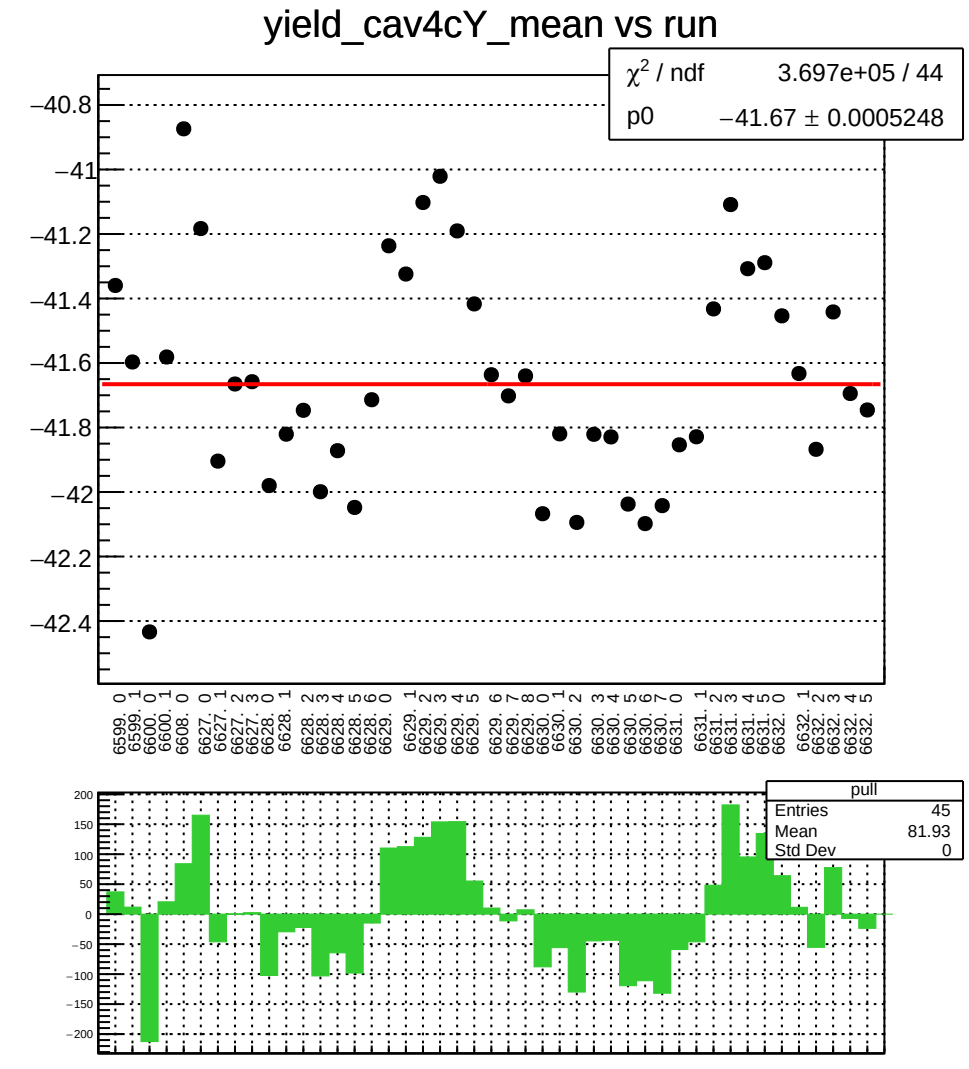
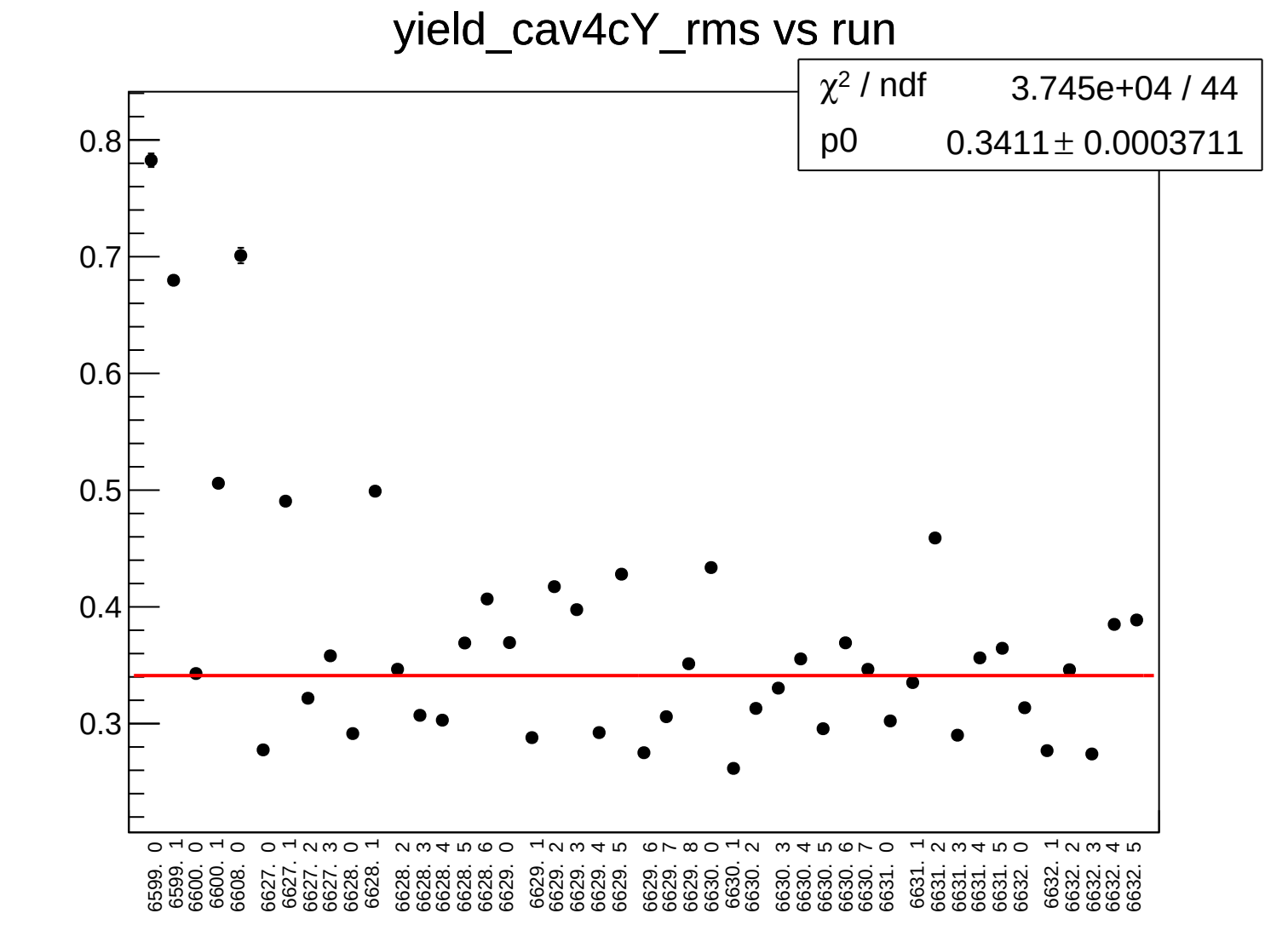
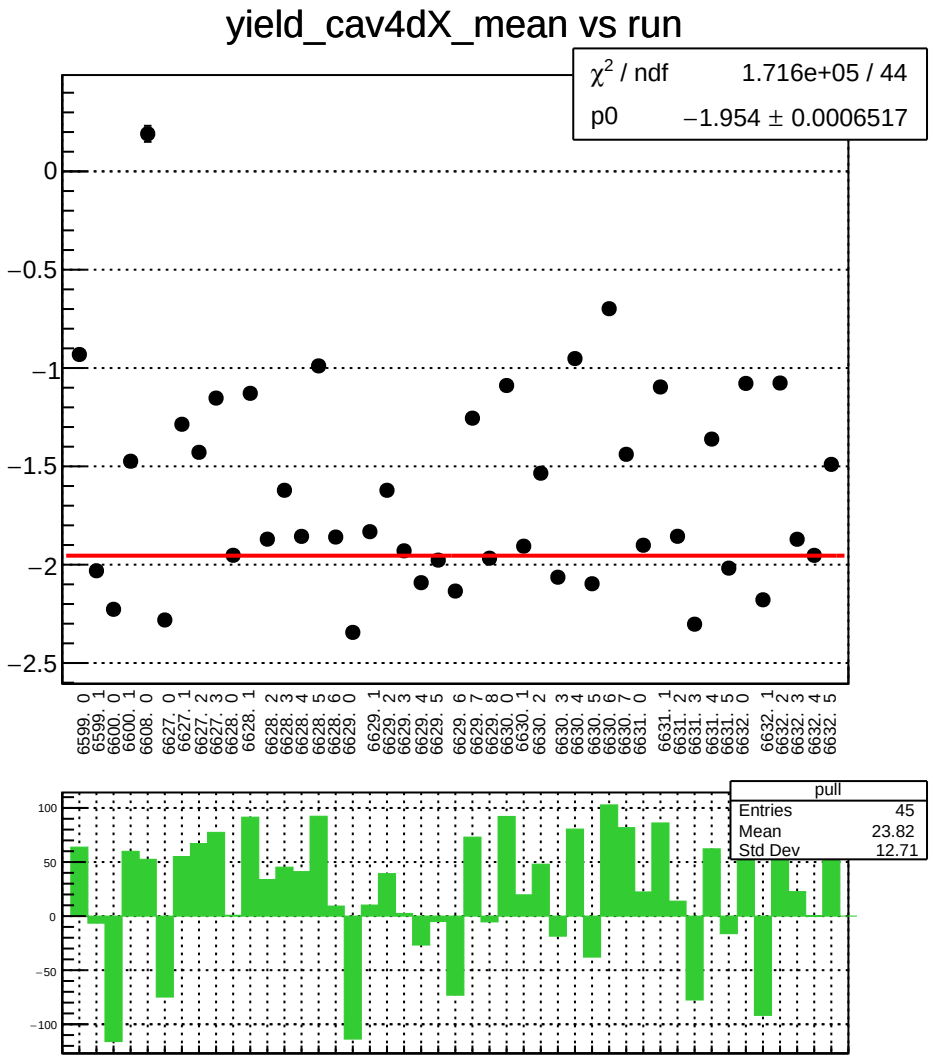
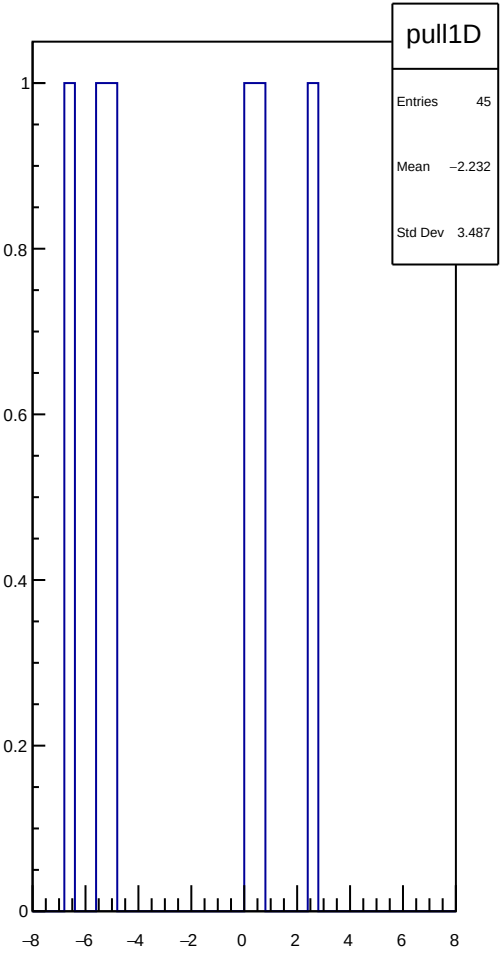
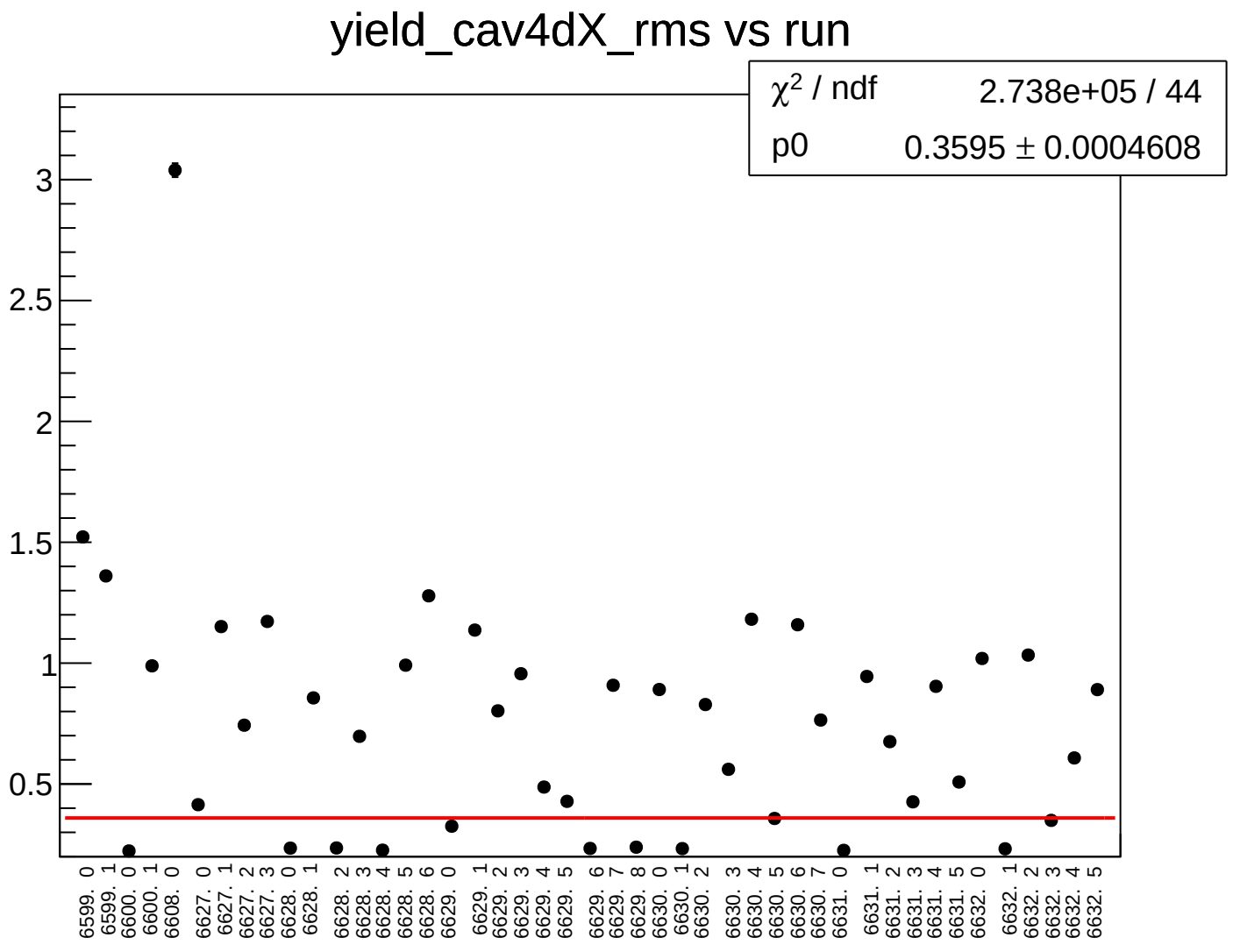
6632. 2
6632. 3
6632. 4
6632. 5

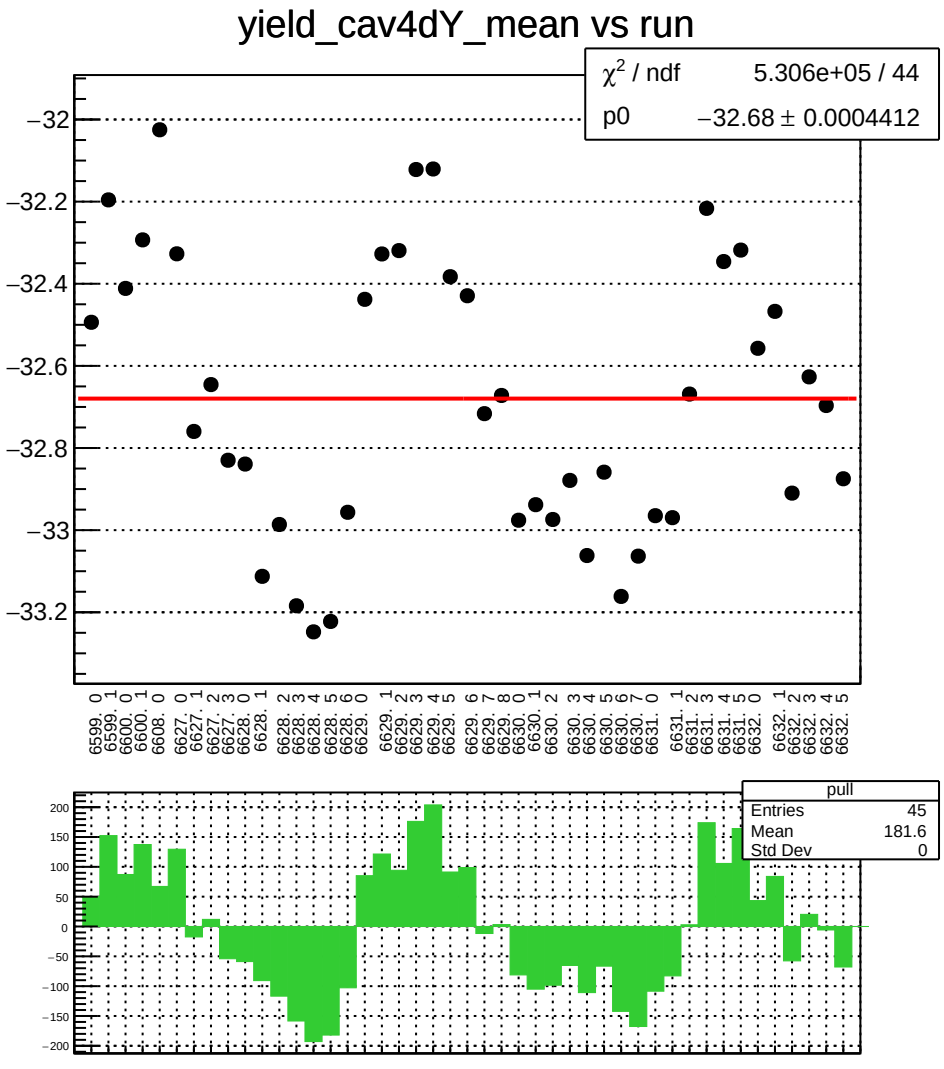

yield_cav4cY_mean vs run
χ² / ndf 3.697e+05 / 44
p0 −41.67 ± 0.0005248
−40.8
−41
−41.2
−41.4
−41.6
−41.8
−42
−42.2
−42.4
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 81.93
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 45
Mean 0.6909
Std Dev 5.169
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

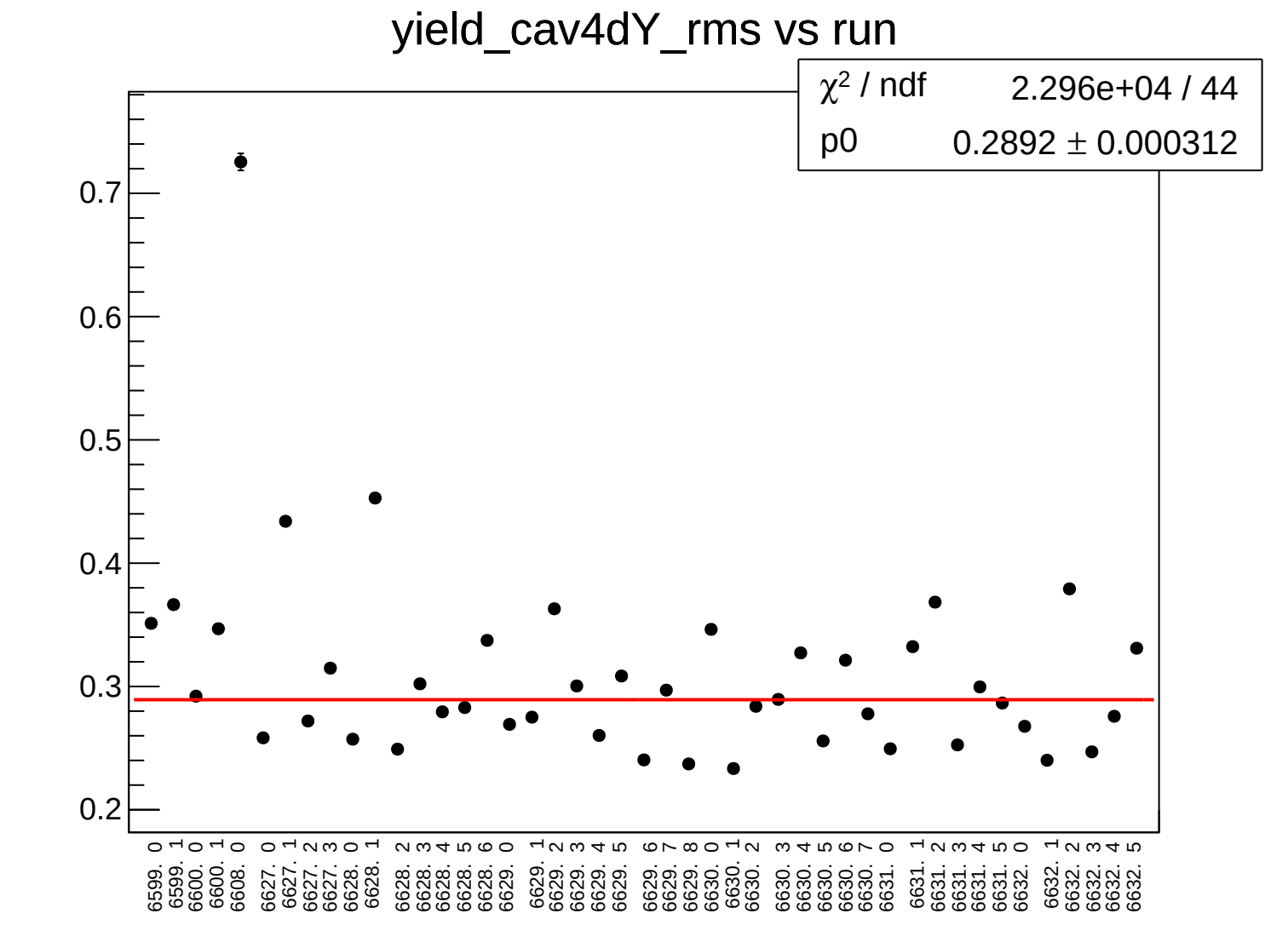

yield_cav4cY_rms vs run
χ² / ndf 3.745e+04 / 44
p0 0.3411 ± 0.0003711
0.8
0.7
0.6
0.5
0.4
0.3
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

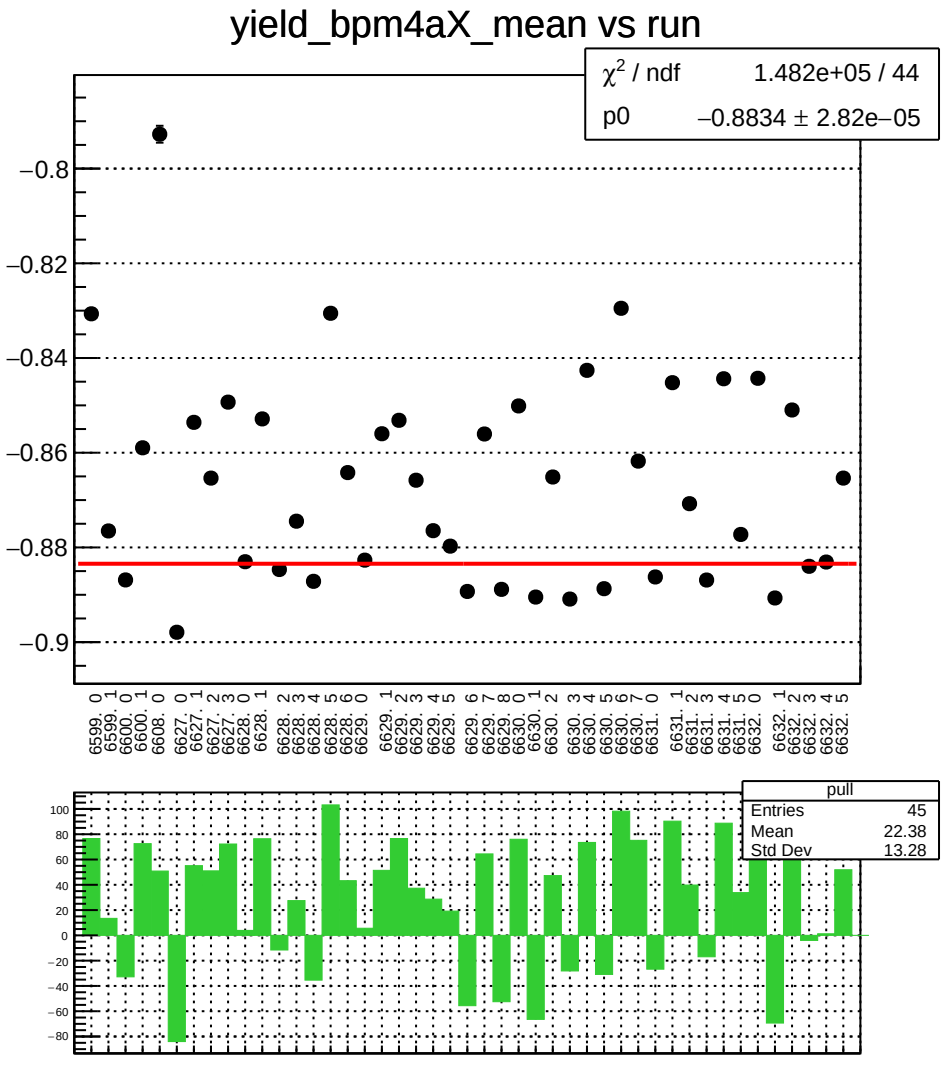

yield_cav4dX_mean vs run
χ² / ndf 1.716e+05 / 44
p0 −1.954 ± 0.0006517
0
−0.5
−1
−1.5
−2
−2.5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 23.82
Std Dev 12.71
100
50
0
−50
−100

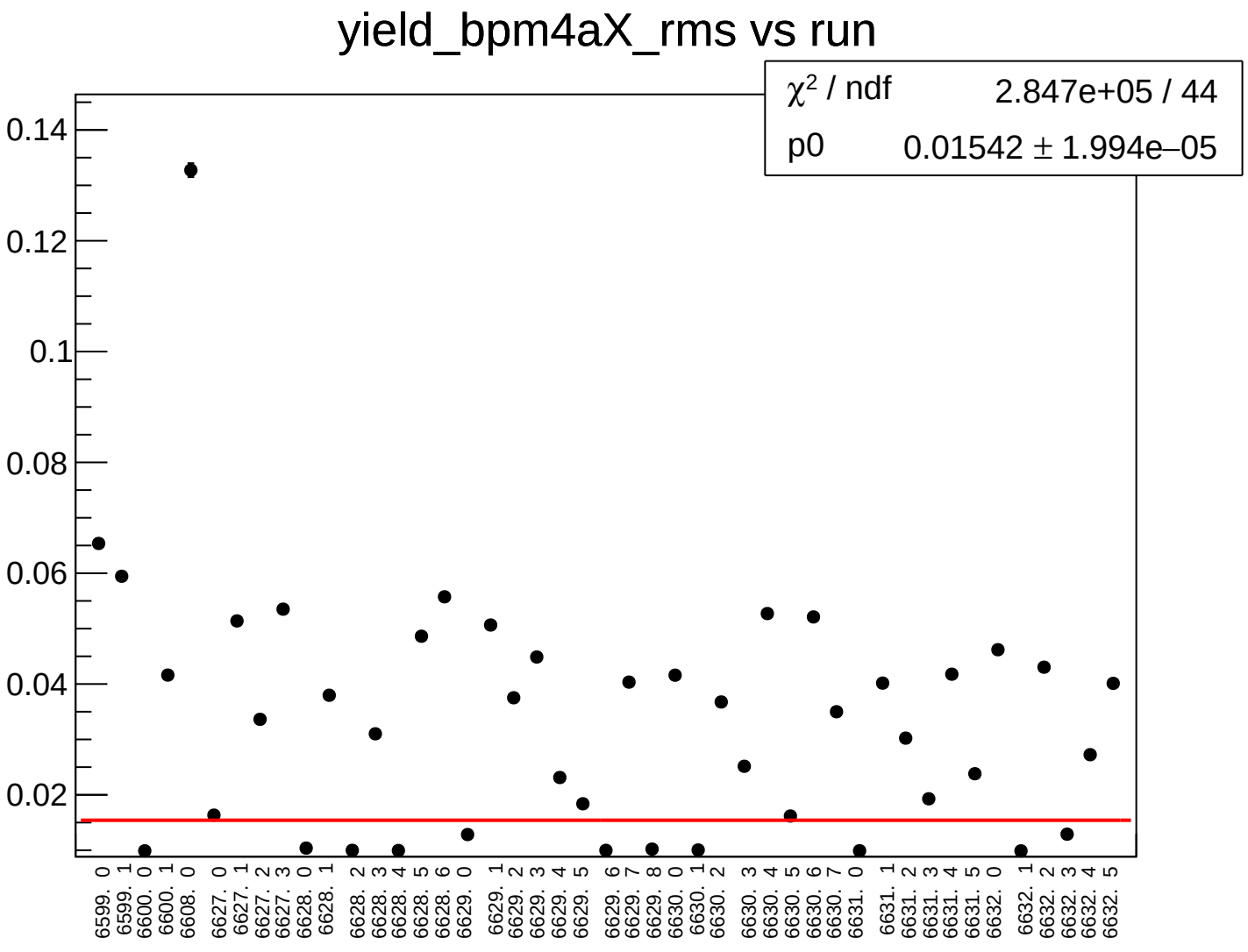

pull1D
Entries 45
Mean −2.232
Std Dev 3.487
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

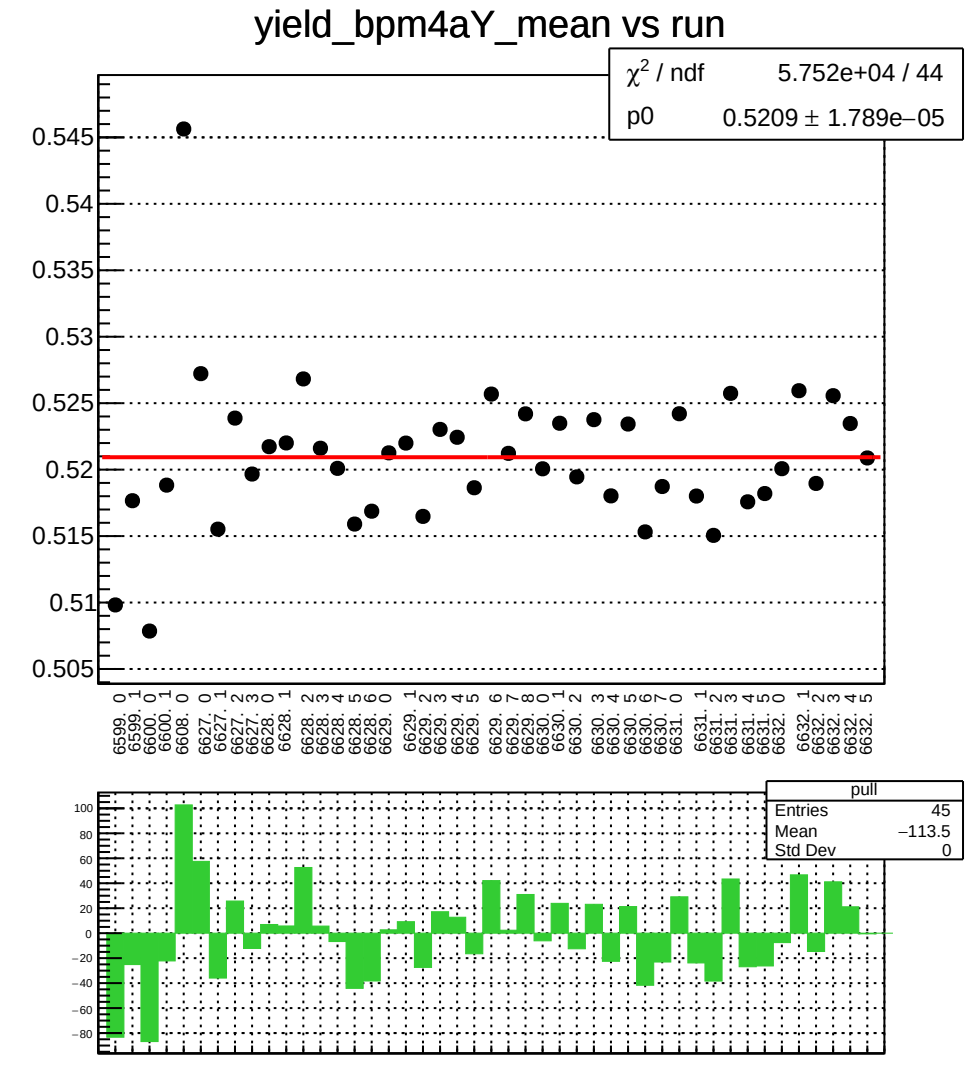

yield_cav4dX_rms vs run
χ² / ndf 2.738e+05 / 44
p0 0.3595 ± 0.0004608
3
2.5
2
1.5
1
0.5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

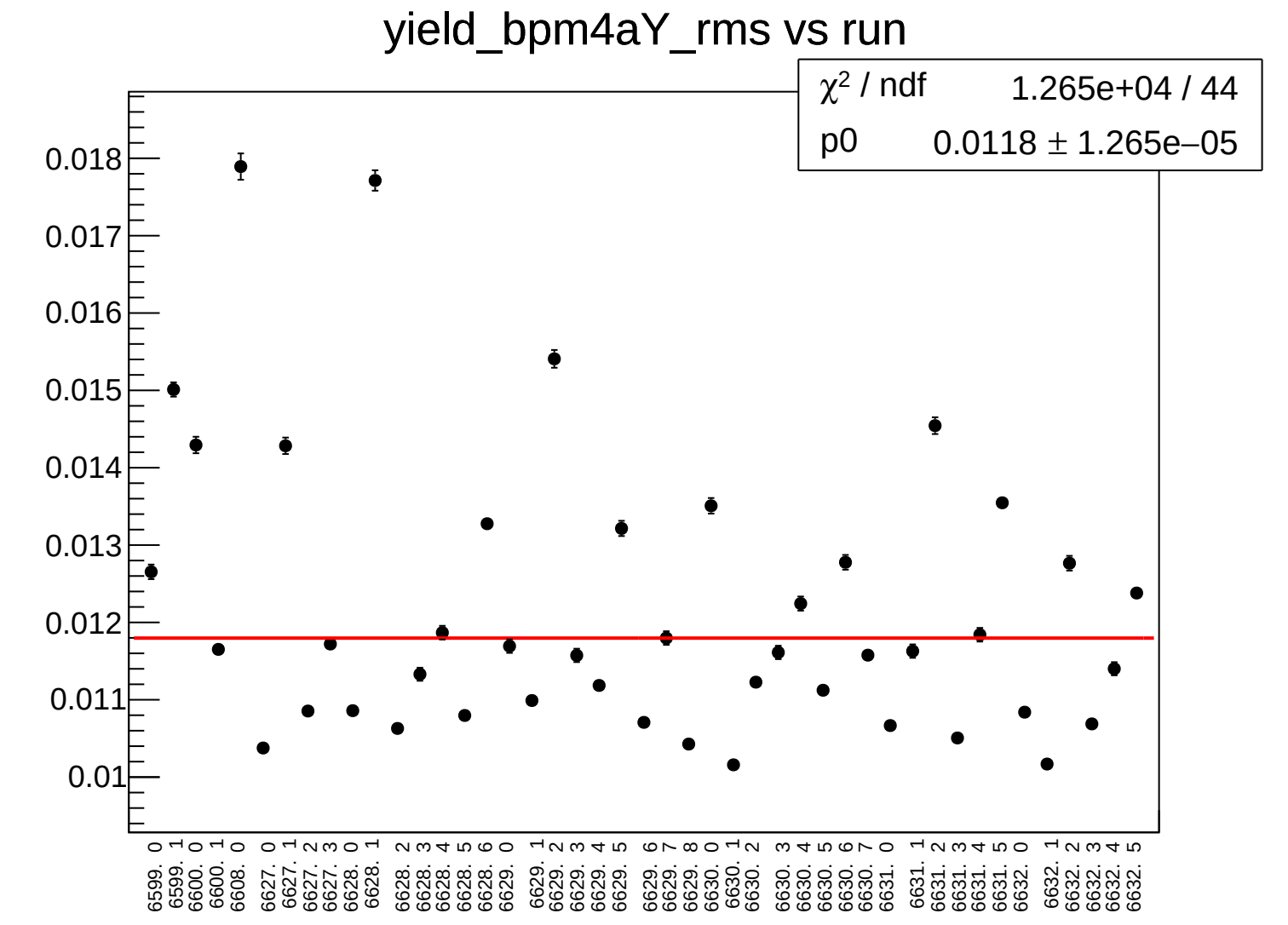

yield_cav4dY_mean vs run
χ² / ndf 5.306e+05 / 44
p0 −32.68 ± 0.0004412
−32
−32.2
−32.4
−32.6
−32.8
−33
−33.2
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 181.6
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 45
Mean 0.07892
Std Dev 4.157
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

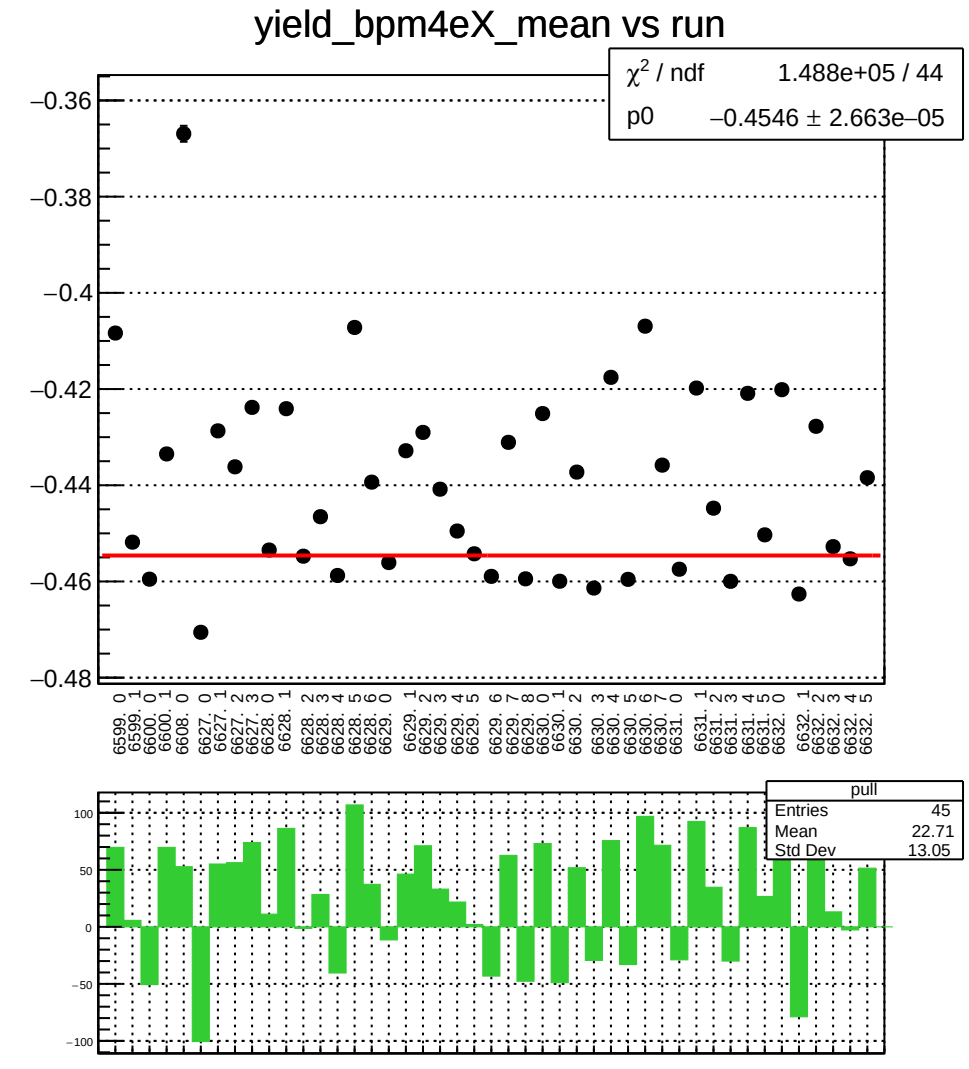

yield_cav4dY_rms vs run
χ² / ndf 2.296e+04 / 44
p0 0.2892 ± 0.000312
0.7
0.6
0.5
0.4
0.3
0.2
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

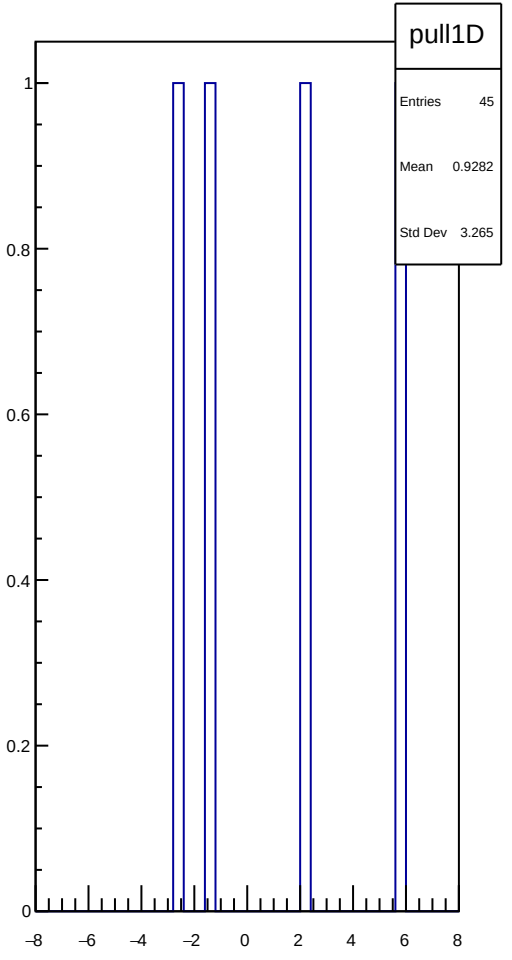

yield_bpm4aX_mean vs run
χ² / ndf 1.482e+05 / 44
p0 −0.8834 ± 2.82e−05
−0.8
−0.82
−0.84
−0.86
−0.88
−0.9
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 22.38
Std Dev 13.28
100
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 45
Mean 1.701
Std Dev 3.633
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

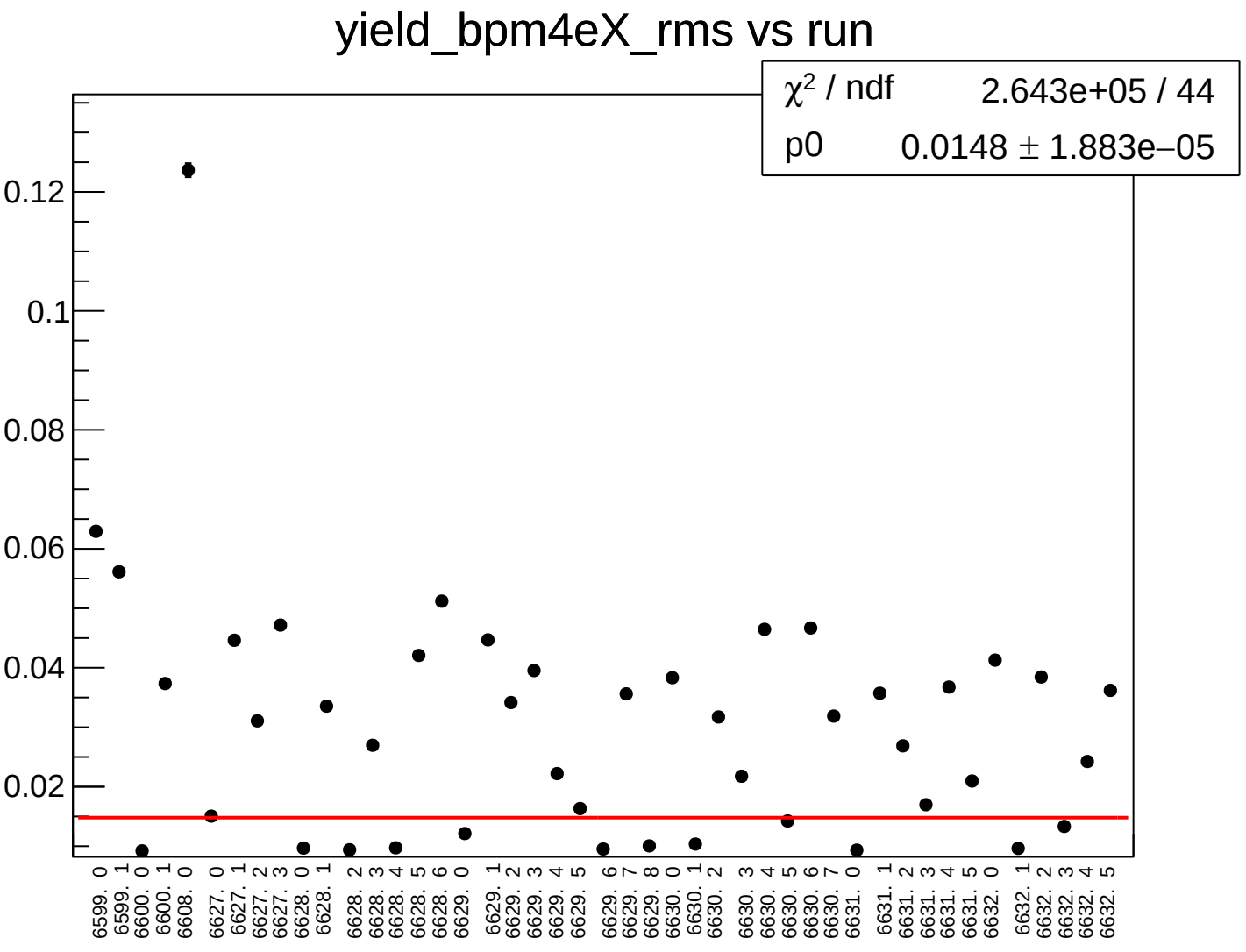

yield_bpm4aX_rms vs run
χ² / ndf 2.847e+05 / 44
p0 0.01542 ± 1.994e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

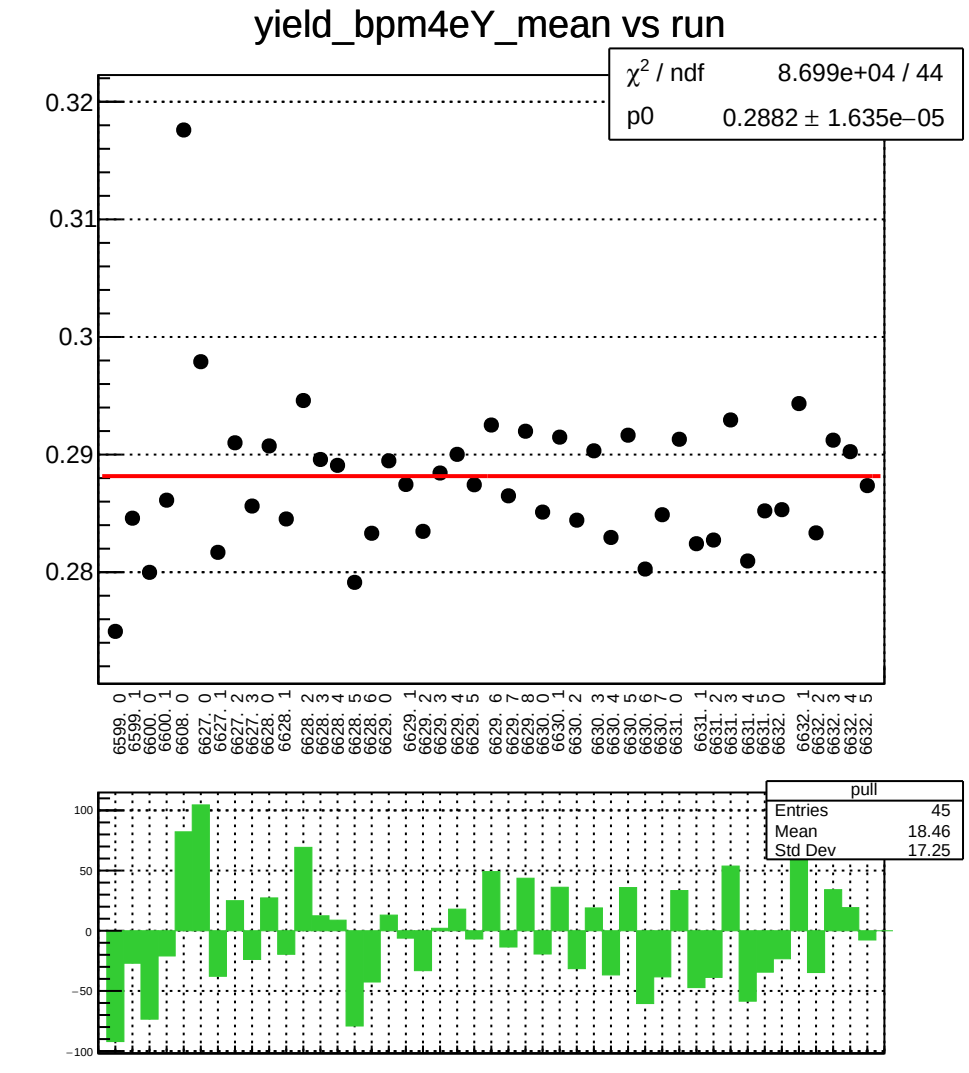

yield_bpm4aY_mean vs run
χ² / ndf 5.752e+04 / 44
p0 0.5209 ± 1.789e−05
0.545
0.54
0.535
0.53
0.525
0.52
0.515
0.51
0.505
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −113.5
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 45
Mean 0.2807
Std Dev 5.421
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

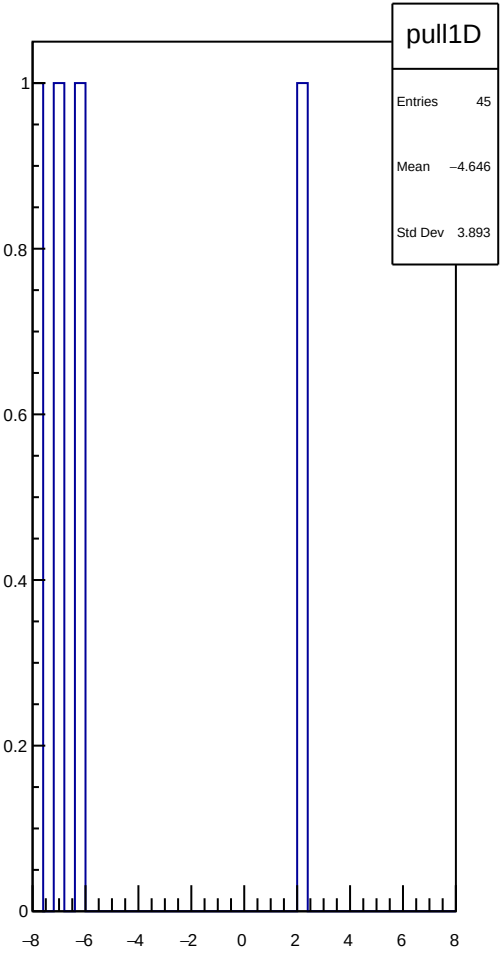

yield_bpm4aY_rms vs run
χ² / ndf 1.265e+04 / 44
p0 0.0118 ± 1.265e−05
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

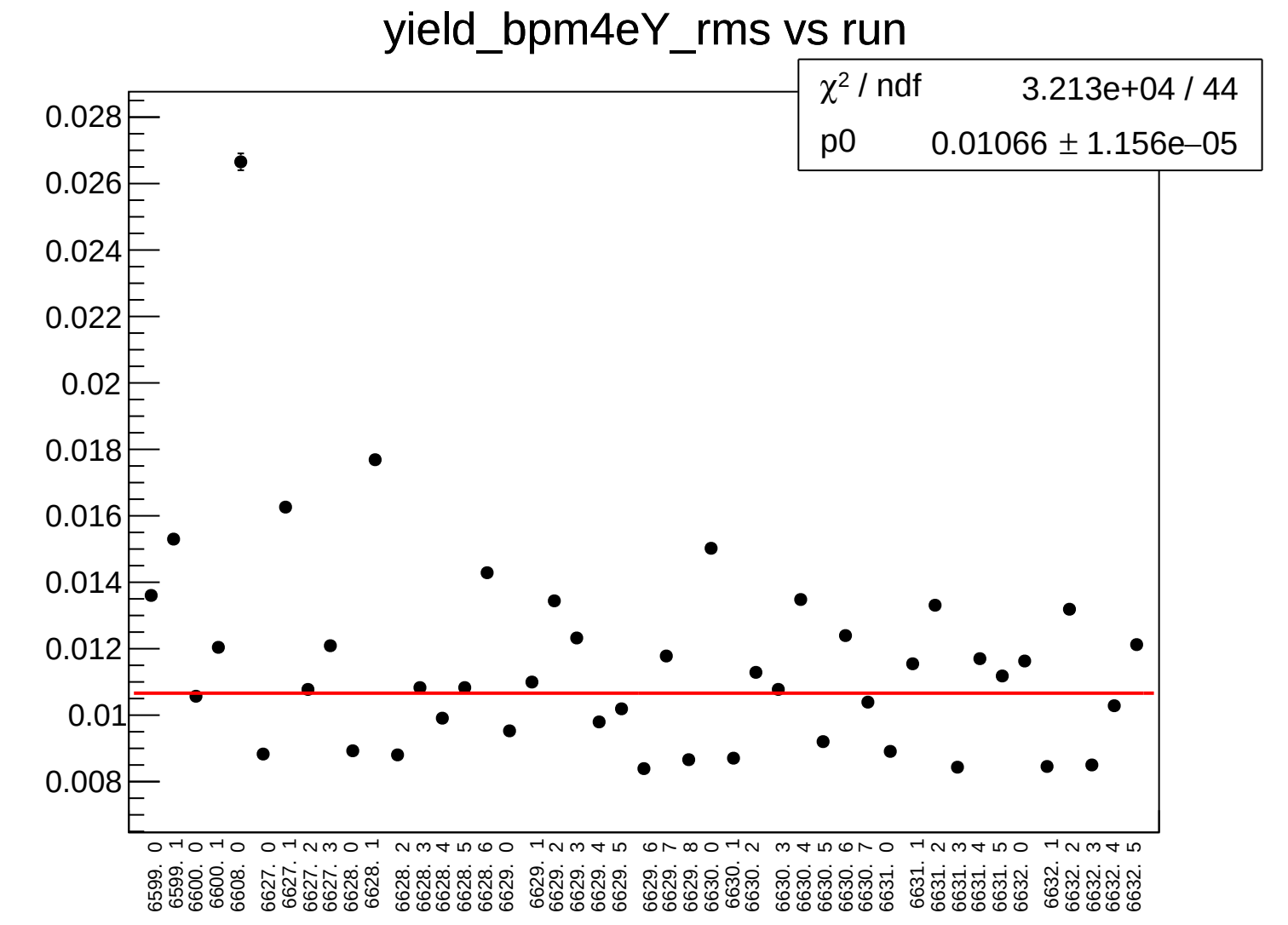

yield_bpm4eX_mean vs run
χ² / ndf 1.488e+05 / 44
p0 −0.4546 ± 2.663e−05
−0.36
−0.38
−0.4
−0.42
−0.44
−0.46
−0.48
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 22.71
Std Dev 13.05
100
50
0
−50
−100

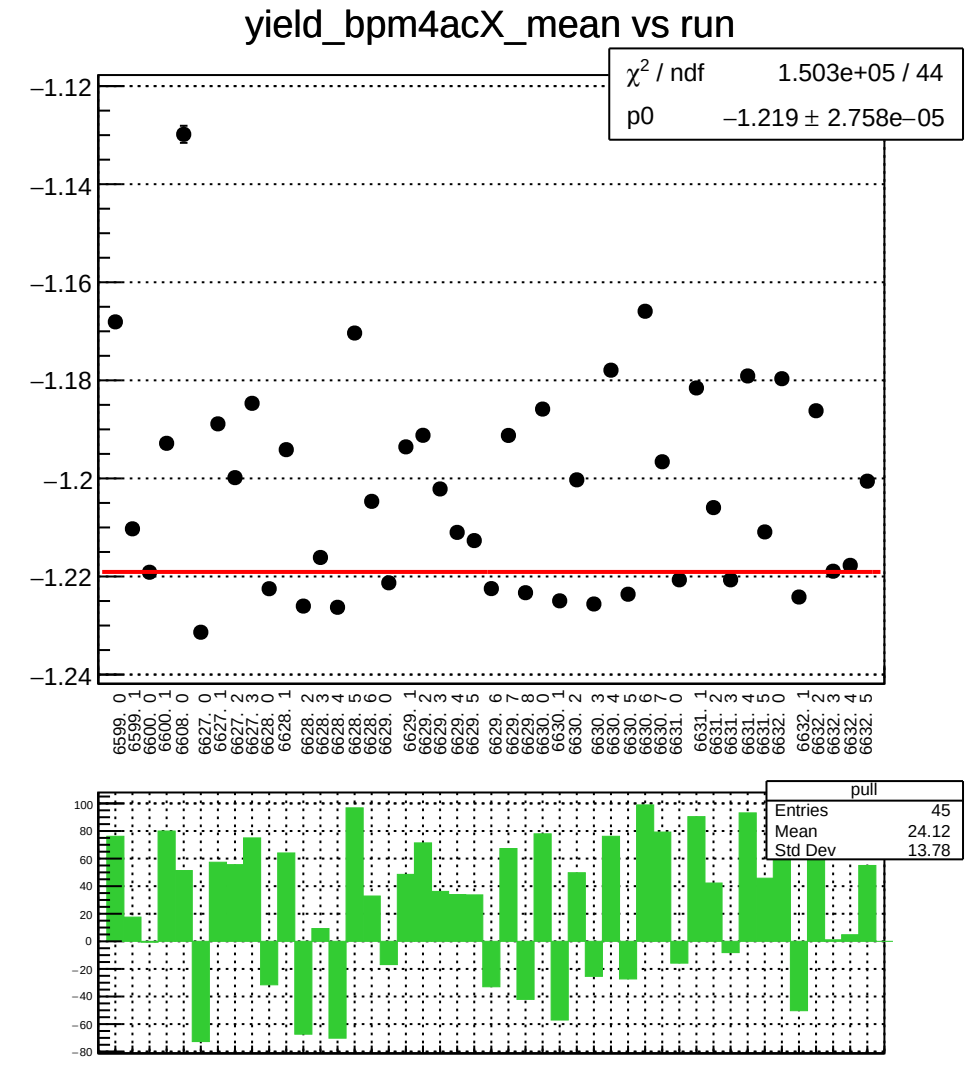

pull1D
Entries 45
Mean 0.9282
Std Dev 3.265
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

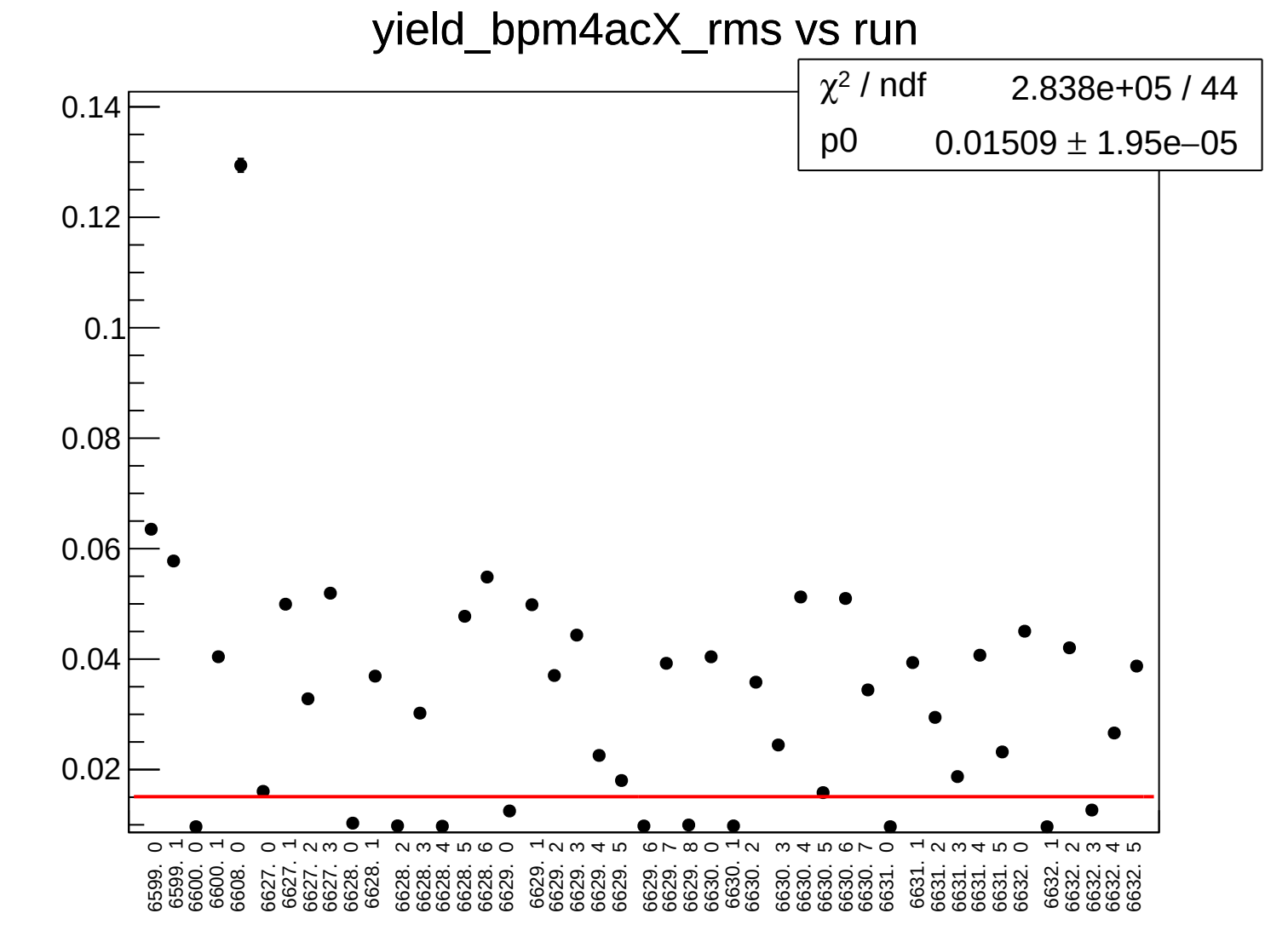

yield_bpm4eX_rms vs run
χ² / ndf 2.643e+05 / 44
p0 0.0148 ± 1.883e−05
0.12
0.1
0.08
0.06
0.04
0.02
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

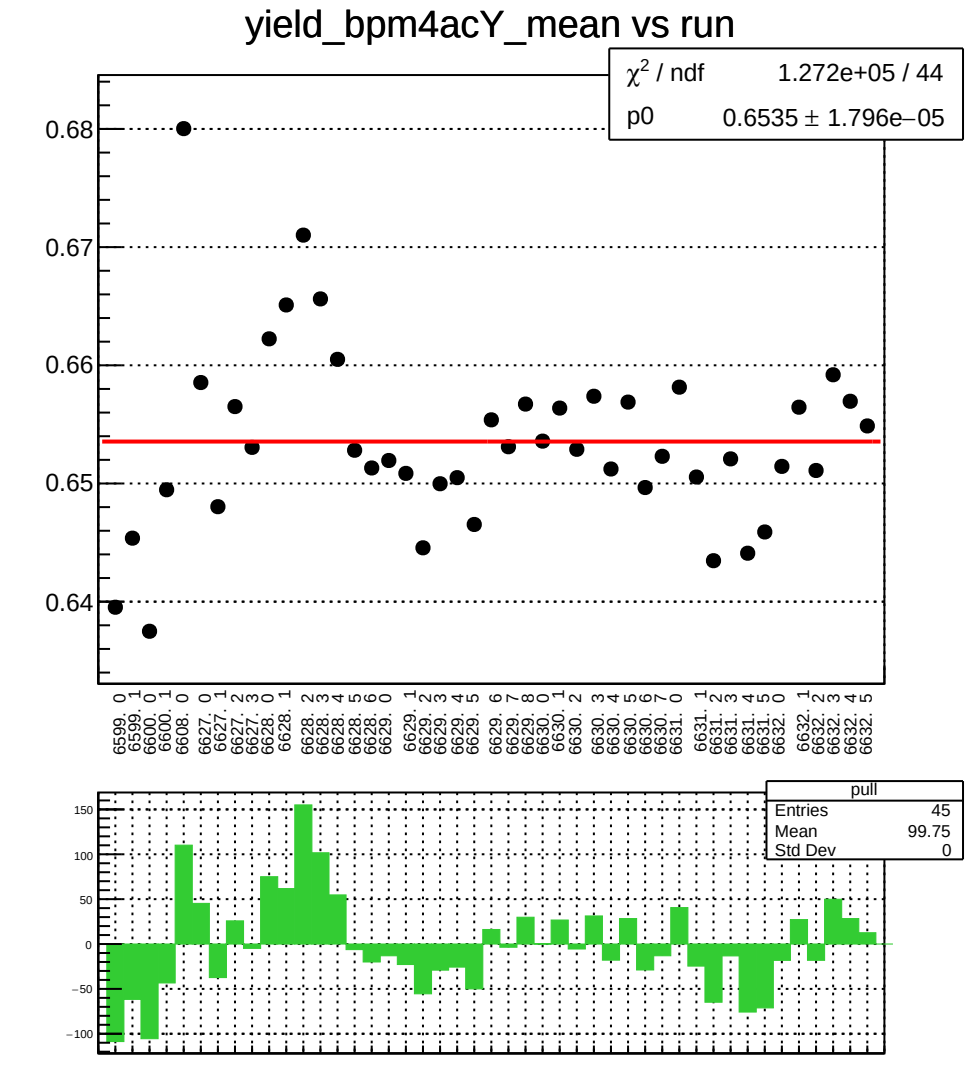

yield_bpm4eY_mean vs run
χ² / ndf 8.699e+04 / 44
p0 0.2882 ± 1.635e−05
0.32
0.31
0.3
0.29
0.28
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 18.46
Std Dev 17.25
100
50
0
−50
−100

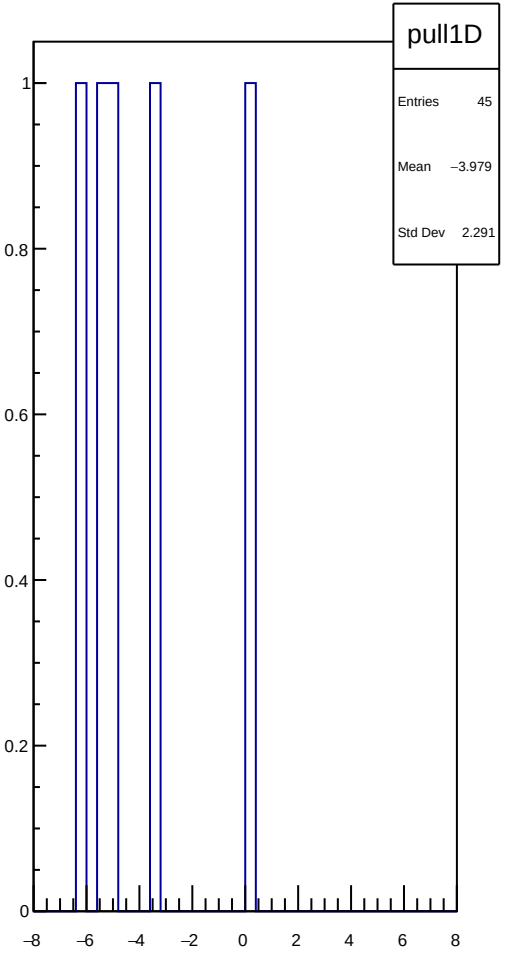

pull1D
Entries 45
Mean −4.646
Std Dev 3.893
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

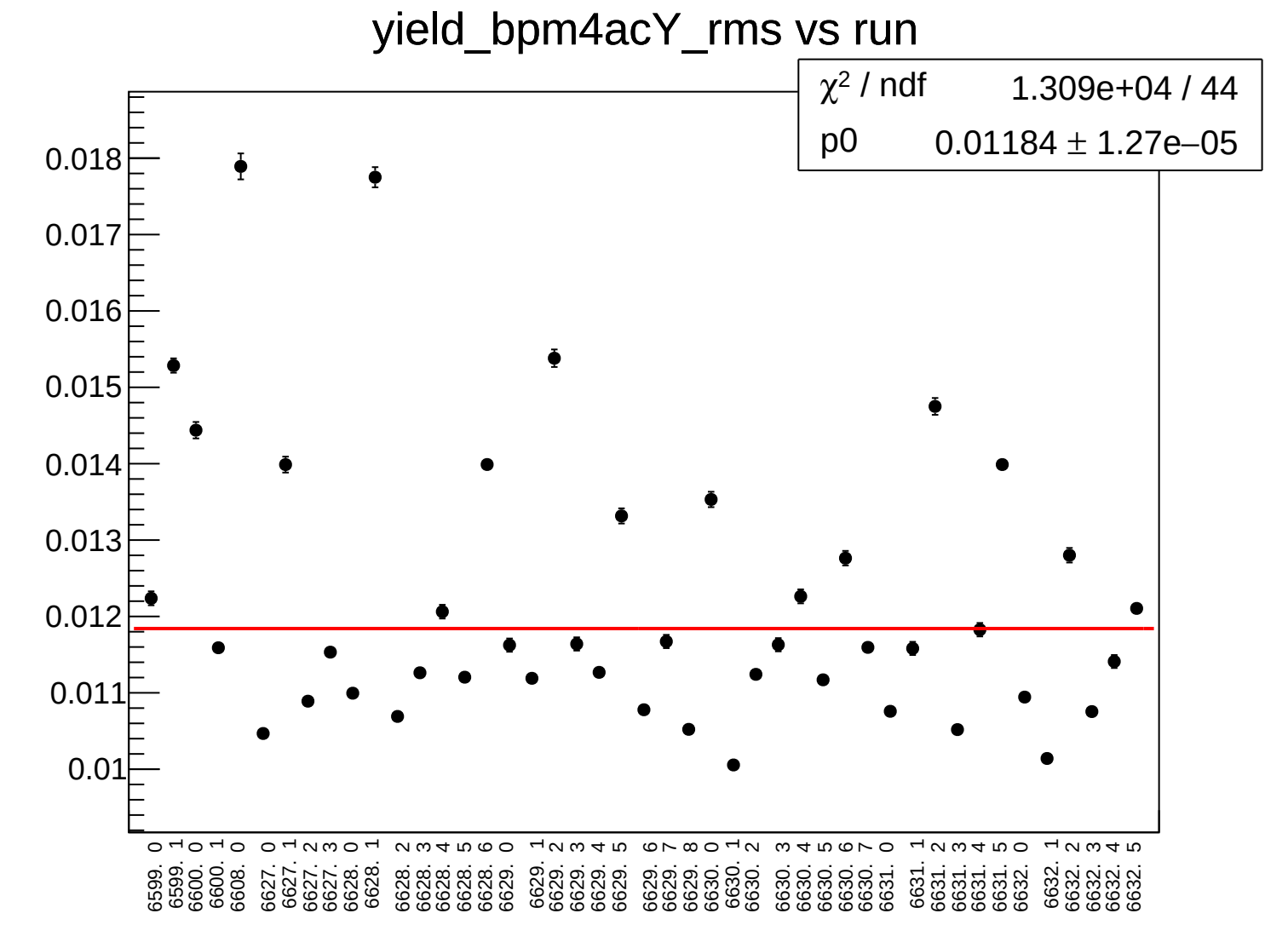

yield_bpm4eY_rms vs run
χ² / ndf 3.213e+04 / 44
p0 0.01066 ± 1.156e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

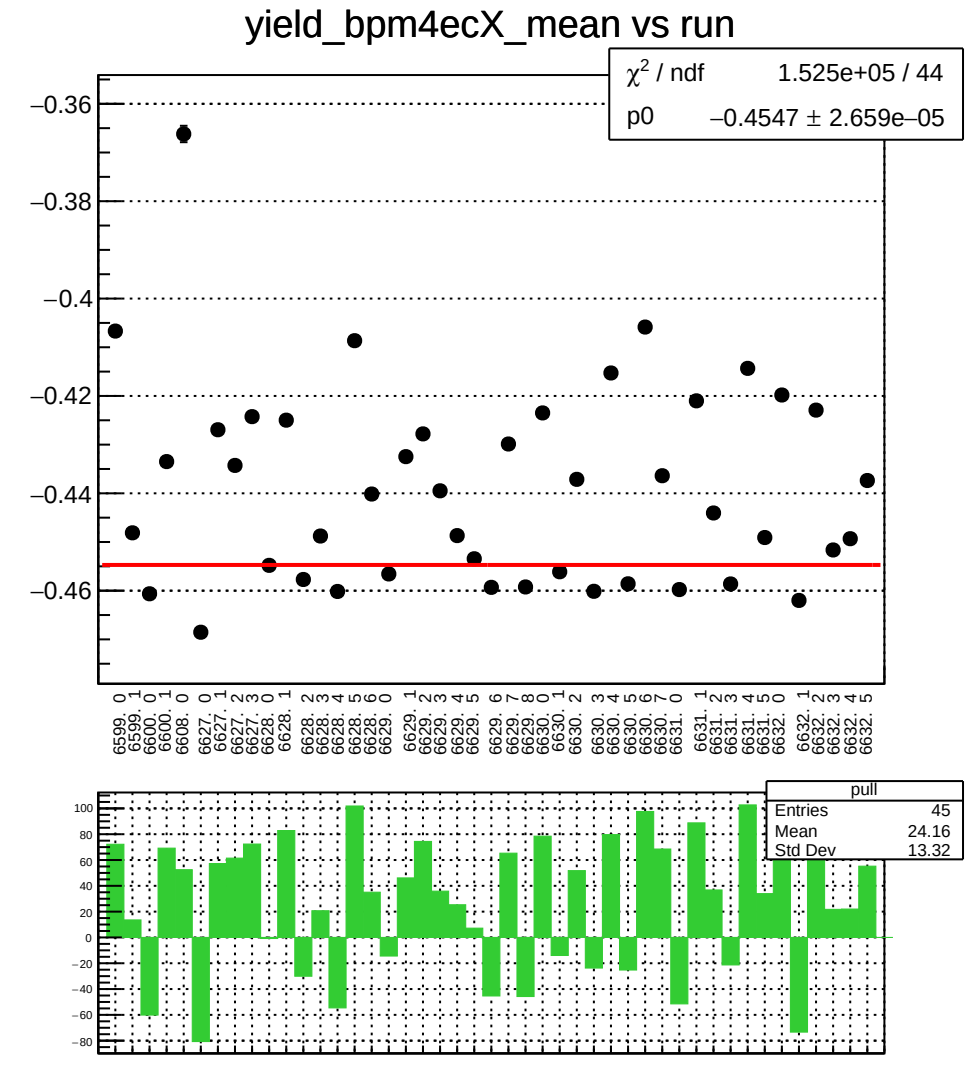

yield_bpm4acX_mean vs run
χ² / ndf 1.503e+05 / 44
p0 −1.219 ± 2.758e−05
−1.12
−1.14
−1.16
−1.18
−1.2
−1.22
−1.24
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 24.12
Std Dev 13.78
100
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 45
Mean 1.749
Std Dev 2.258
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

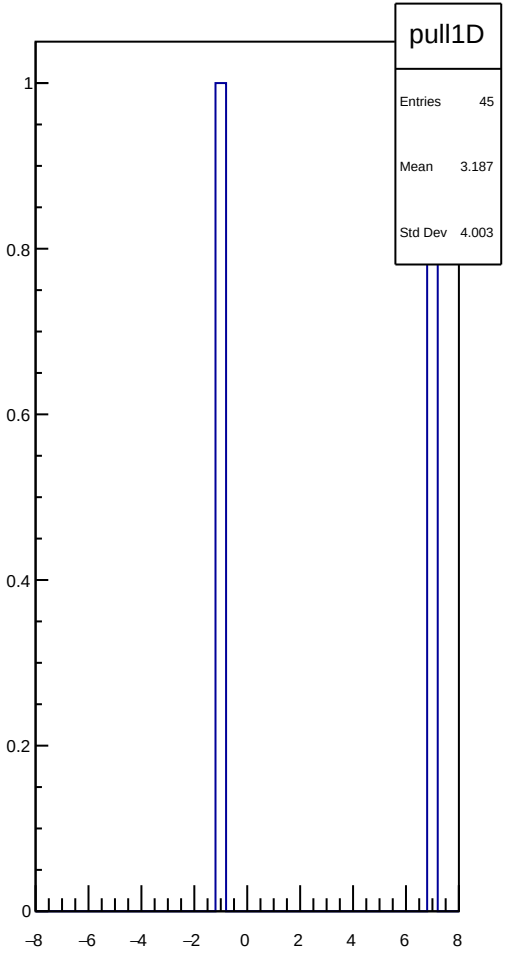

yield_bpm4acX_rms vs run
χ² / ndf 2.838e+05 / 44
p0 0.01509 ± 1.95e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

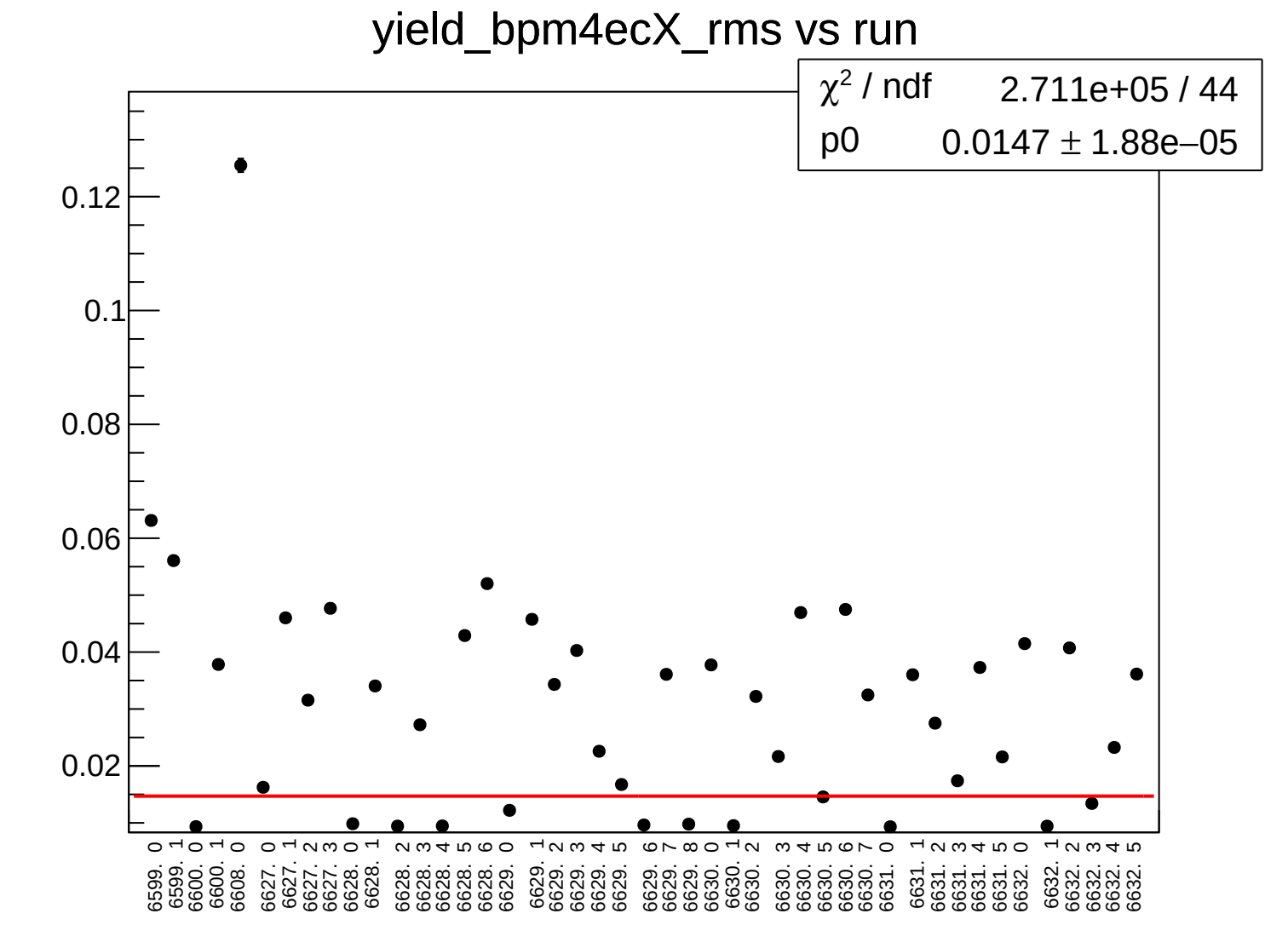

yield_bpm4acY_mean vs run
χ² / ndf 1.272e+05 / 44
p0 0.6535 ± 1.796e−05
0.68
0.67
0.66
0.65
0.64
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 99.75
Std Dev 0
150
100
50
0
−50
−100

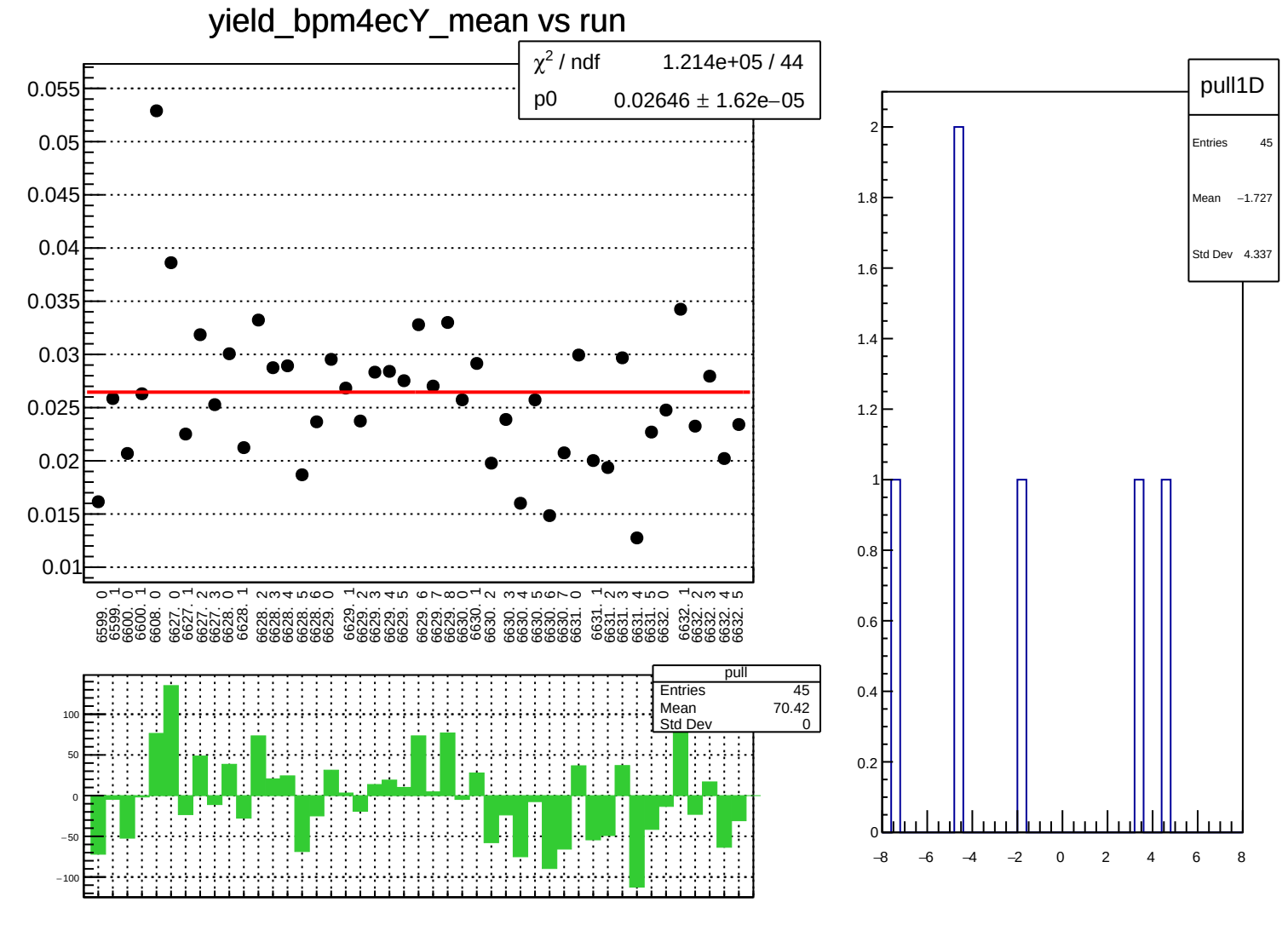

pull1D
Entries 45
Mean −3.979
Std Dev 2.291
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

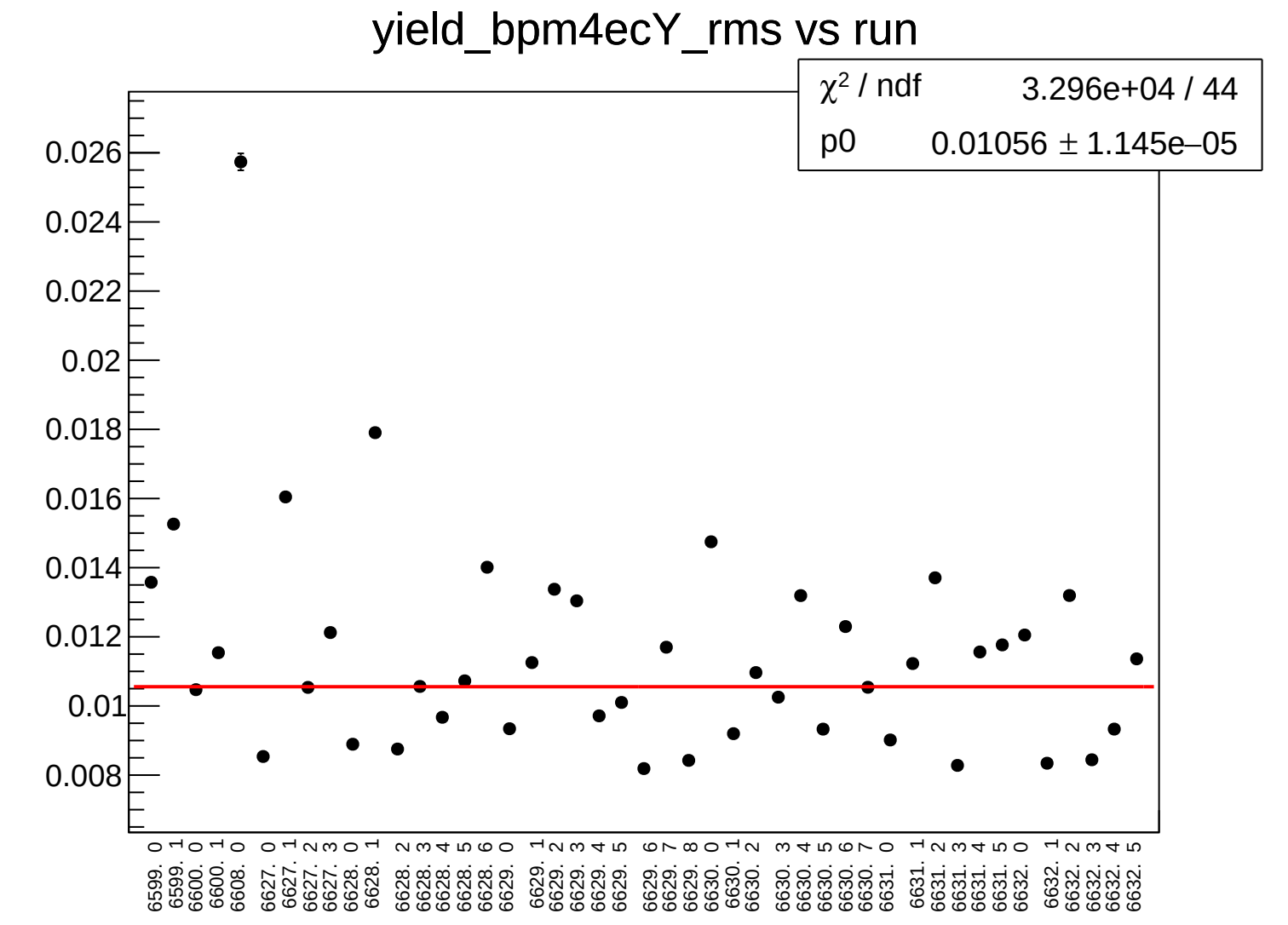

yield_bpm4acY_rms vs run
χ² / ndf 1.309e+04 / 44
p0 0.01184 ± 1.27e−05
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

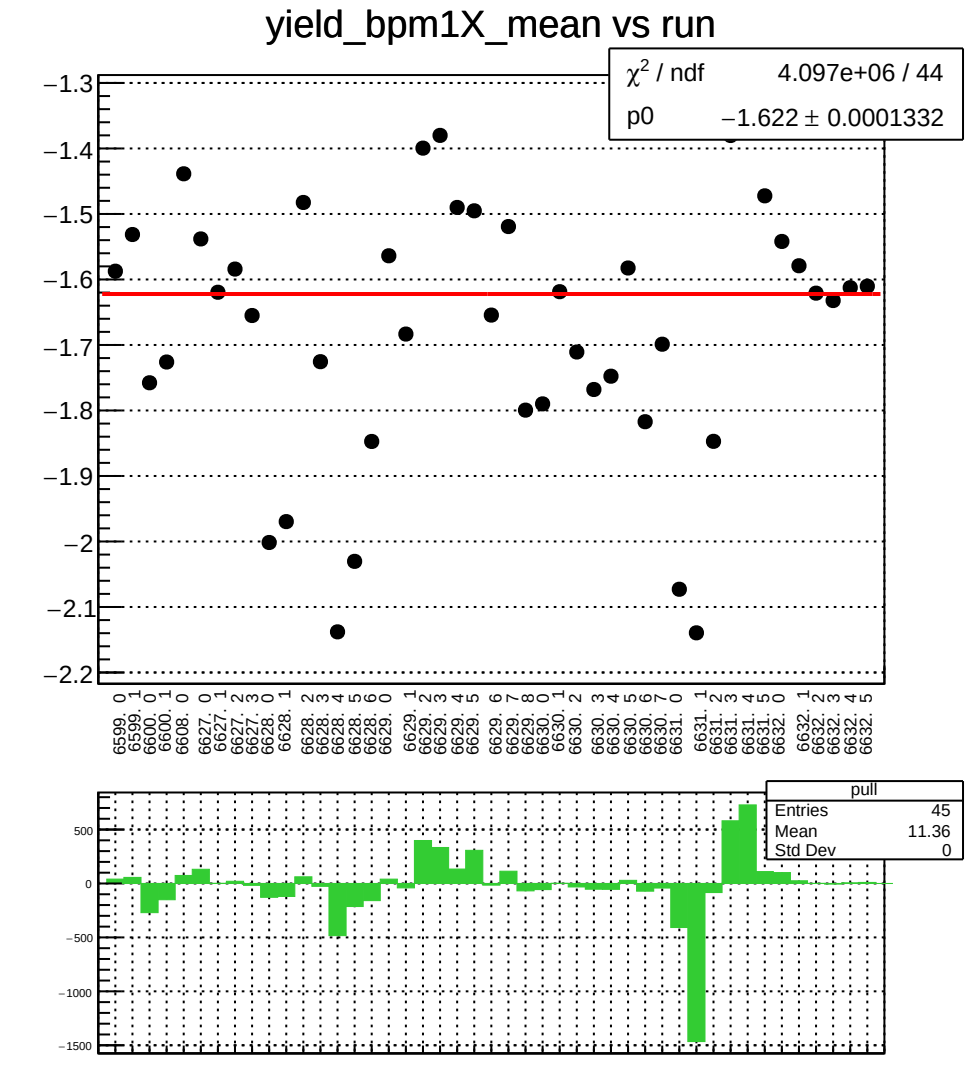

yield_bpm4ecX_mean vs run
χ² / ndf 1.525e+05 / 44
p0 −0.4547 ± 2.659e−05
−0.36
−0.38
−0.4
−0.42
−0.44
−0.46
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 24.16
Std Dev 13.32
100
80
60
40
20
0
−20
−40
−60
−80

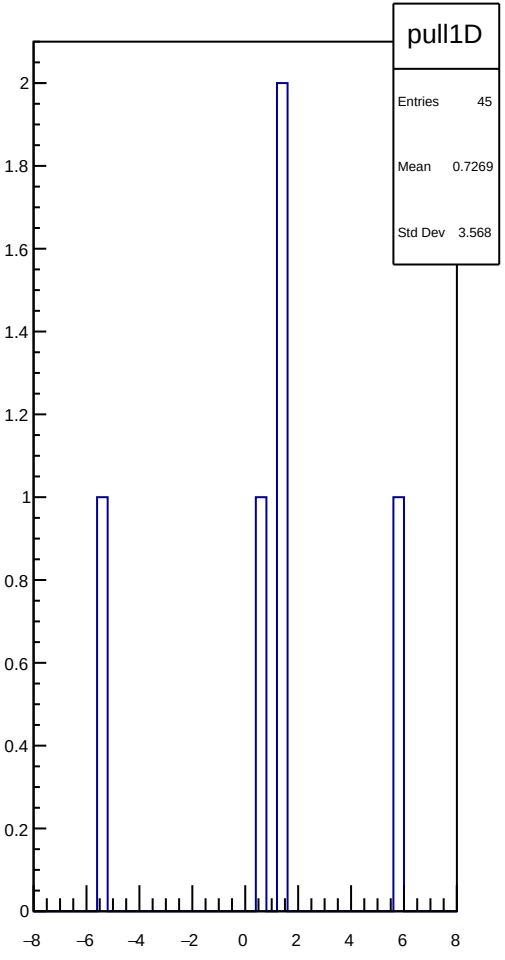

pull1D
Entries 45
Mean 3.187
Std Dev 4.003
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

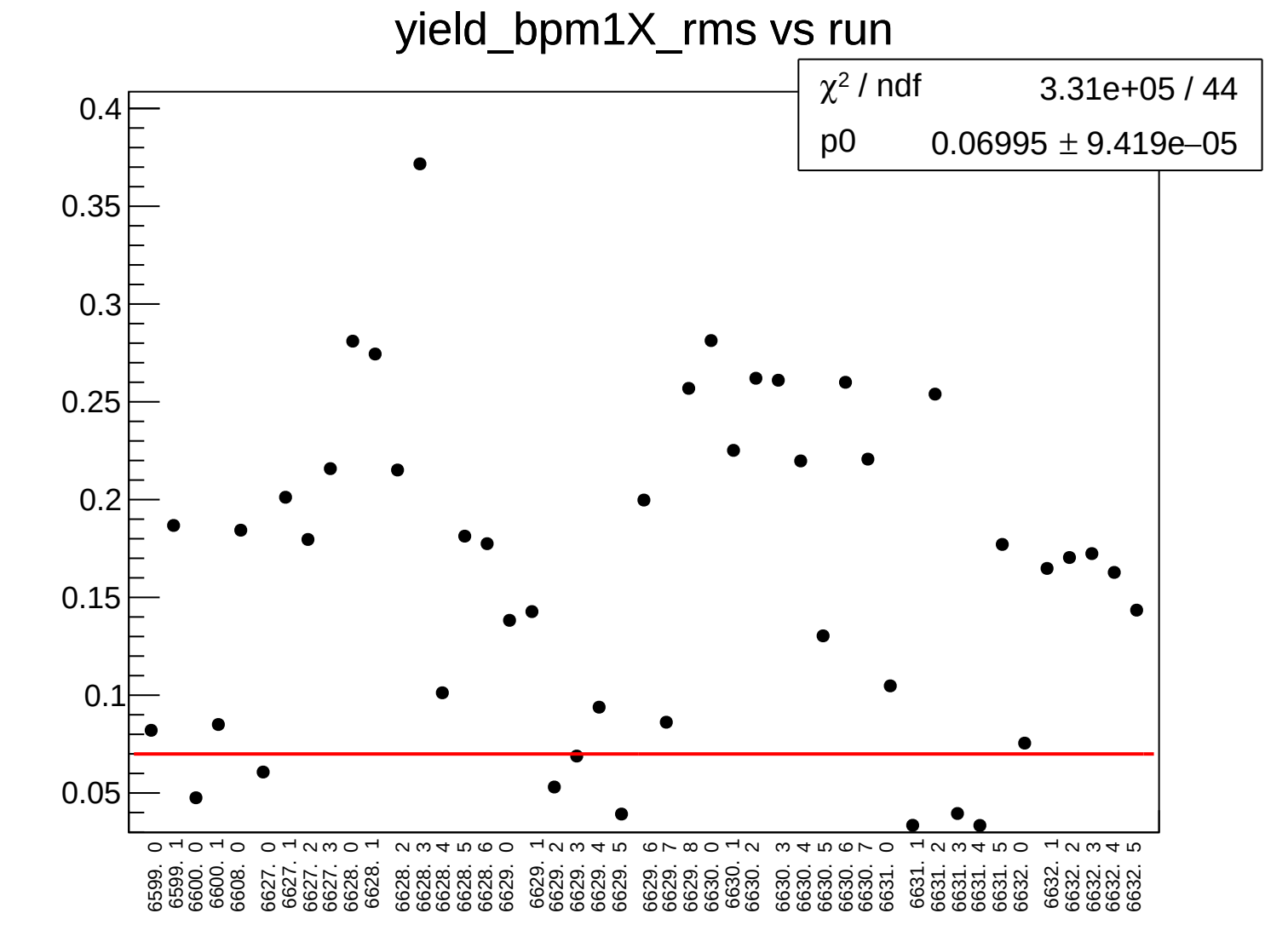

yield_bpm4ecX_rms vs run
χ² / ndf 2.711e+05 / 44
p0 0.0147 ± 1.88e−05
0.12
0.1
0.08
0.06
0.04
0.02
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

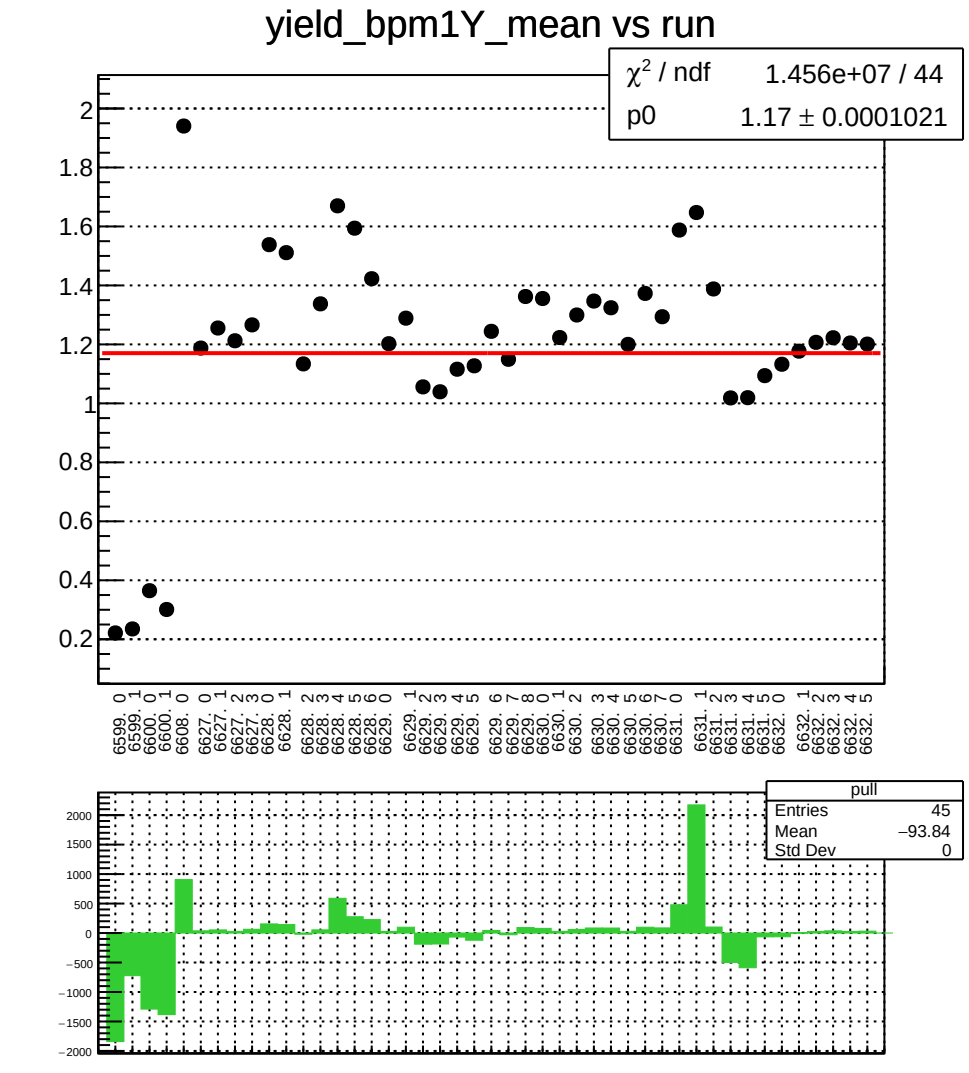

yield_bpm4ecY_mean vs run
χ² / ndf 1.214e+05 / 44
p0 0.02646 ± 1.62e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 70.42
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 45
Mean −1.727
Std Dev 4.337
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

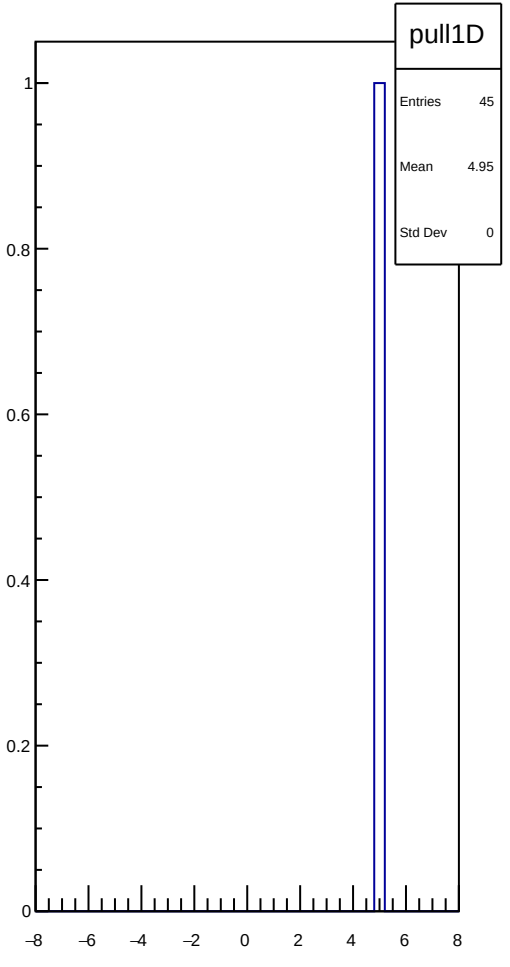

yield_bpm4ecY_rms vs run
χ² / ndf 3.296e+04 / 44
p0 0.01056 ± 1.145e–05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

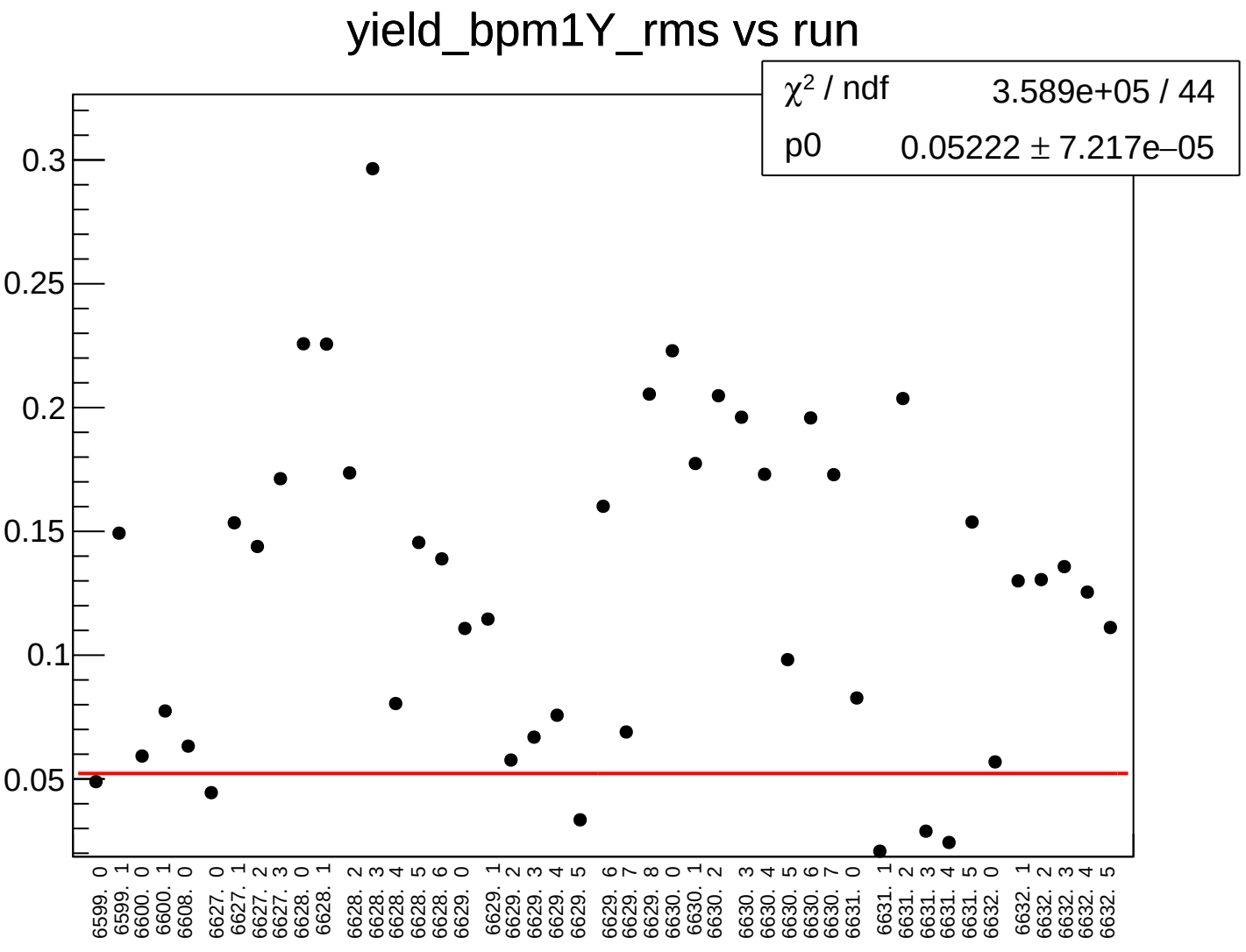

yield_bpm1X_mean vs run
χ² / ndf 4.097e+06 / 44
p0 −1.622 ± 0.0001332
pull
Entries 45
Mean 11.36
Std Dev 0

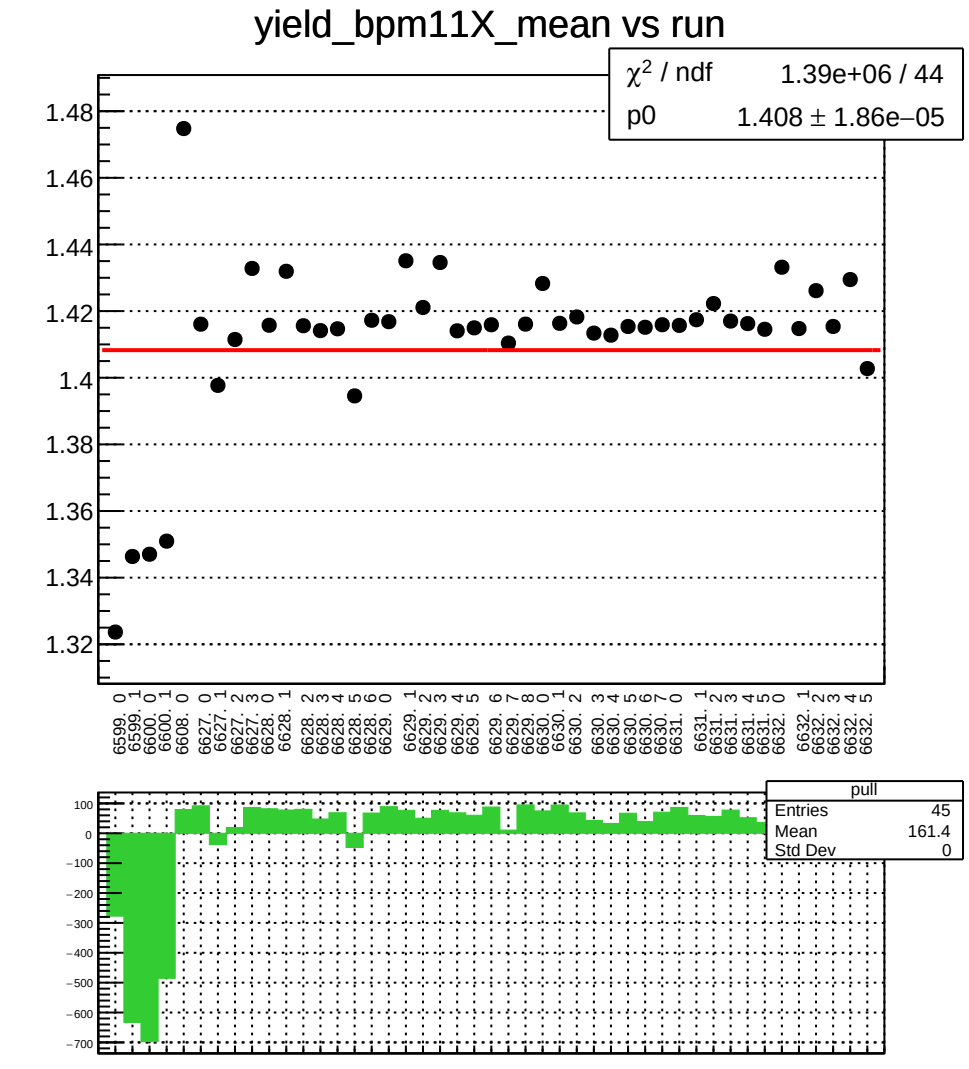

pull1D
Entries 45
Mean 0.7269
Std Dev 3.568

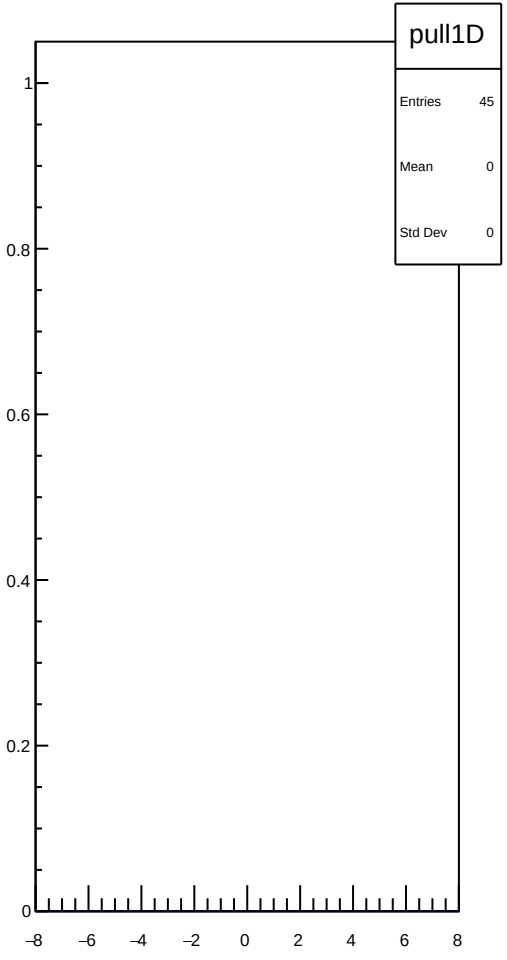

yield_bpm1X_rms vs run
χ² / ndf 3.31e+05 / 44
p0 0.06995 ± 9.419e–05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

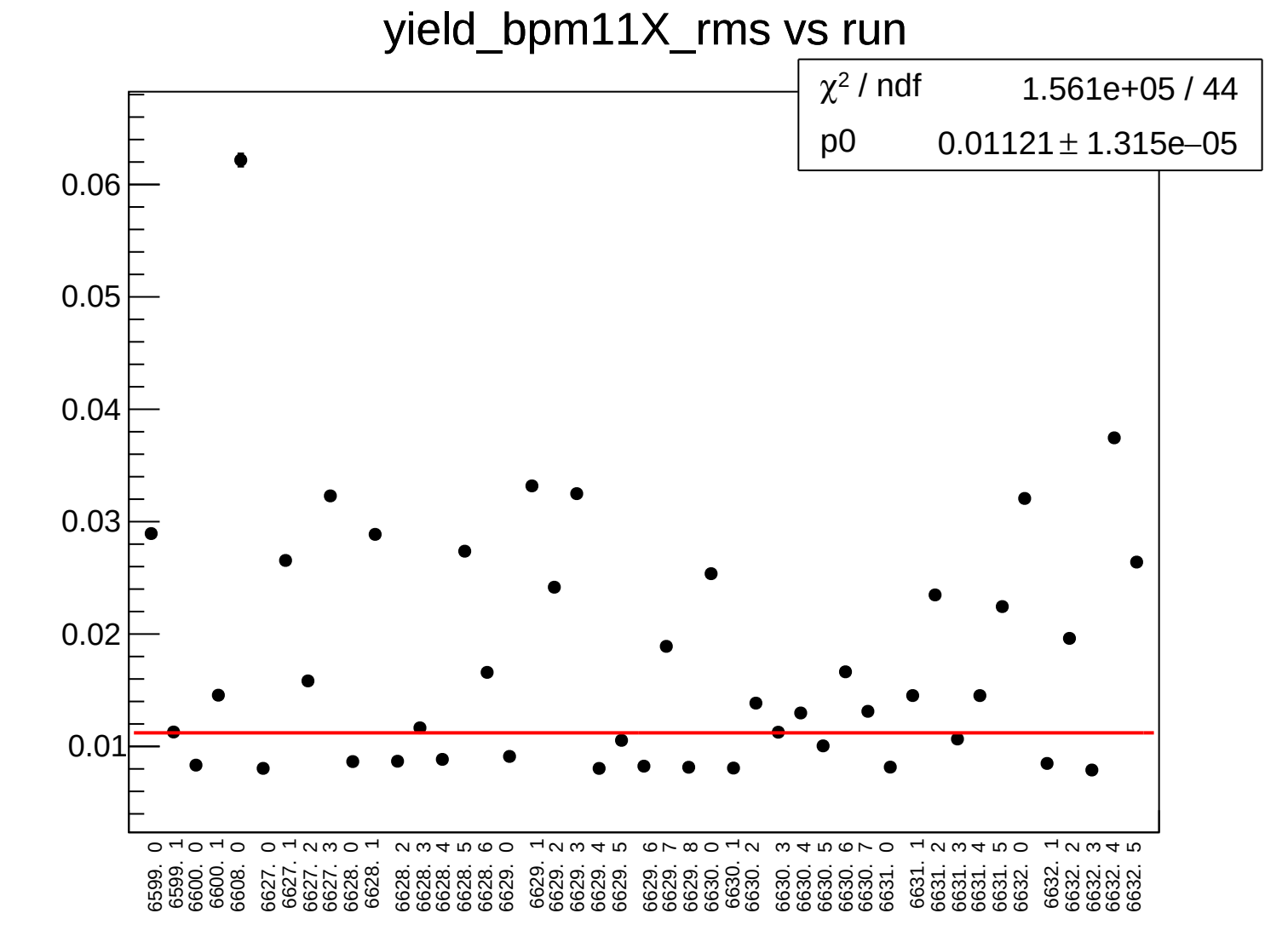

yield_bpm1Y_mean vs run
χ² / ndf 1.456e+07 / 44
p0 1.17 ± 0.0001021
pull
Entries 45
Mean −93.84
Std Dev 0

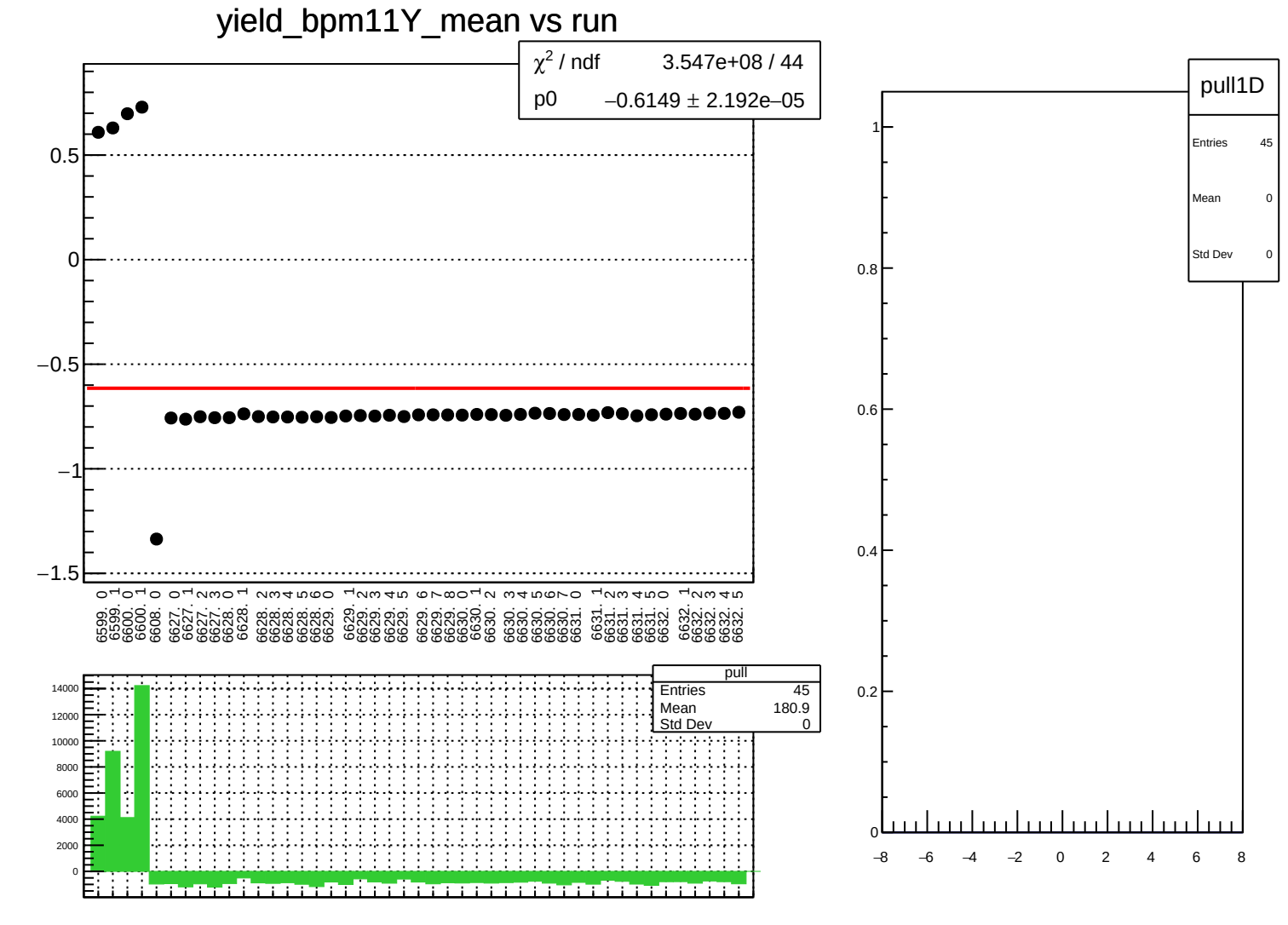

pull1D
Entries 45
Mean 4.95
Std Dev 0

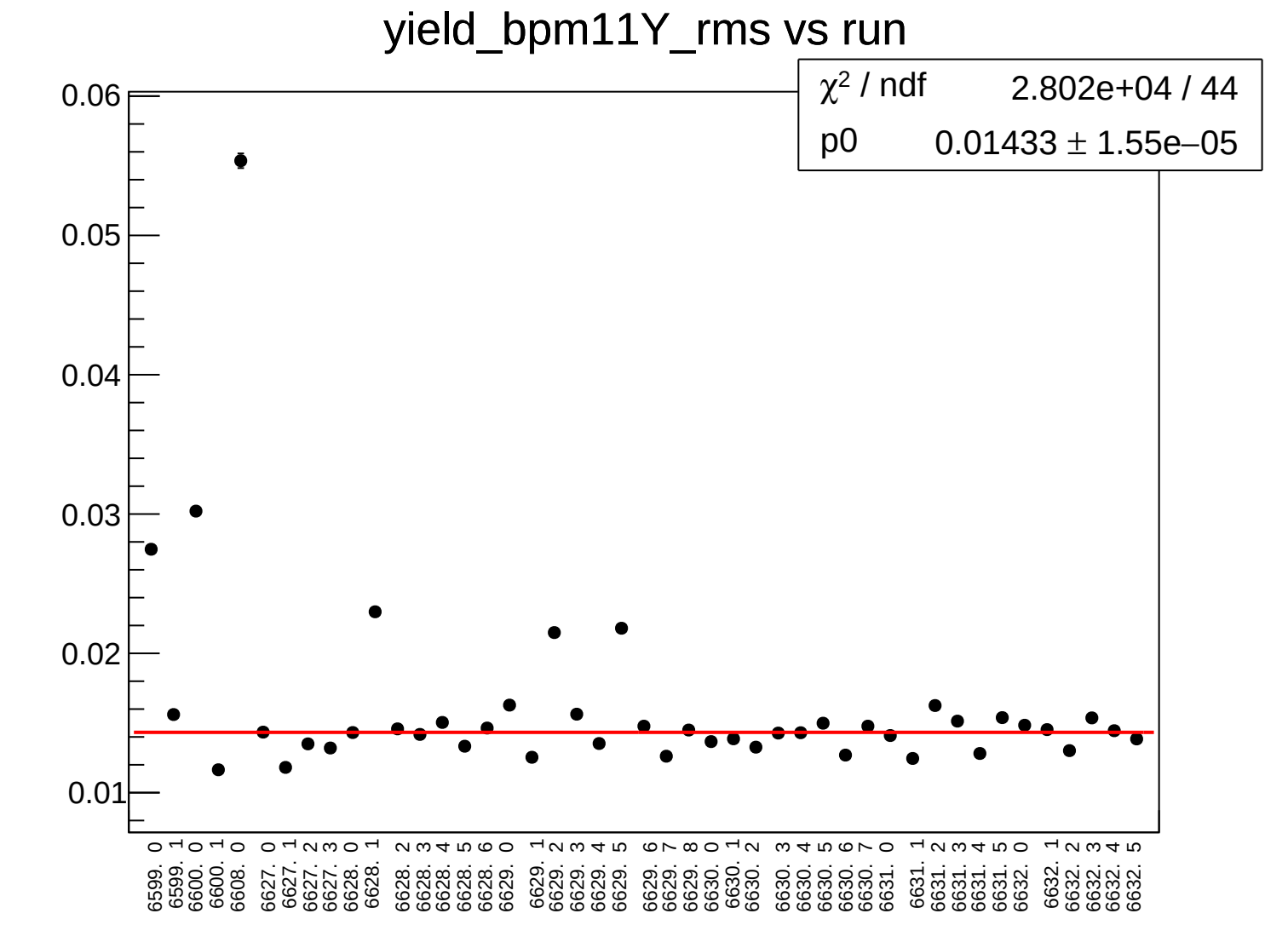

yield_bpm1Y_rms vs run
χ² / ndf 3.589e+05 / 44
p0 0.05222 ± 7.217e–05
0.3
0.25
0.2
0.15
0.1
0.05
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

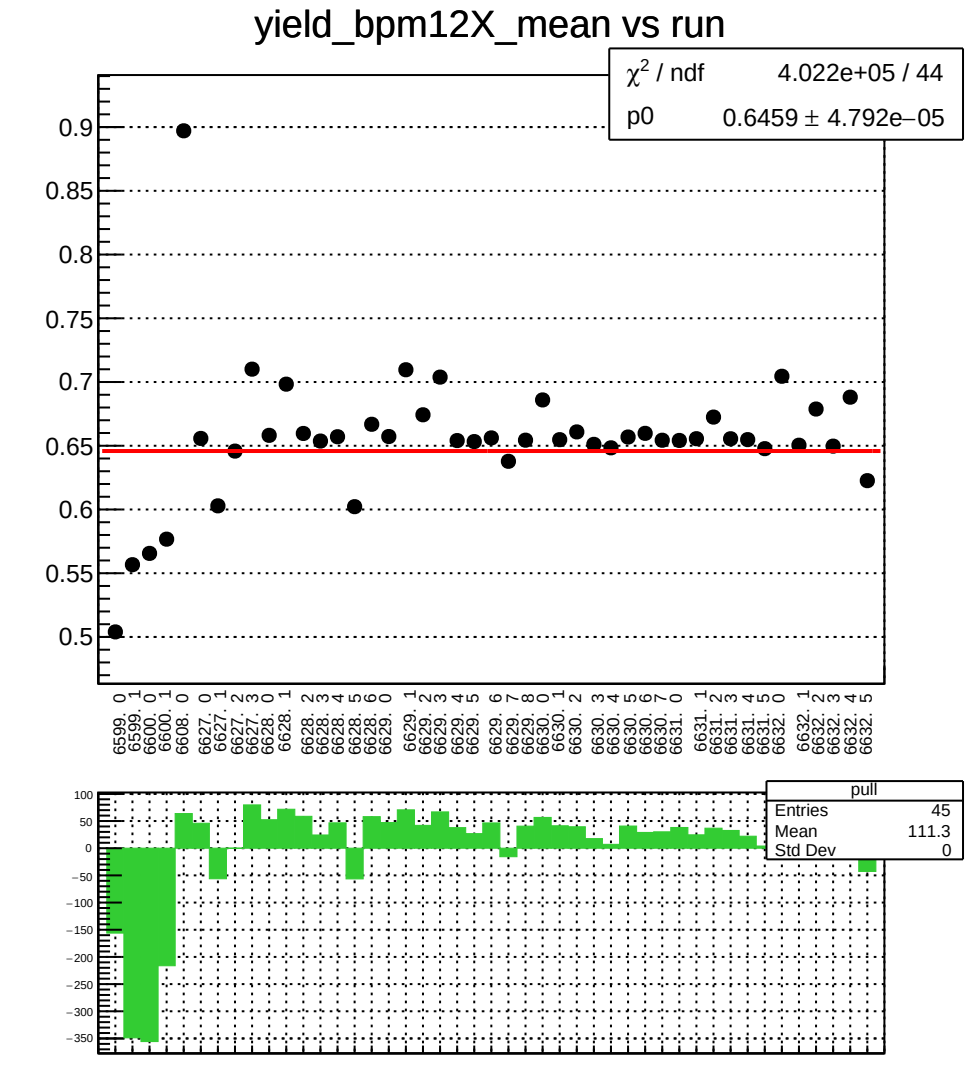

yield_bpm11X_mean vs run
χ² / ndf 1.39e+06 / 44
p0 1.408 ± 1.86e−05
1.48
1.46
1.44
1.42
1.4
1.38
1.36
1.34
1.32
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 161.4
Std Dev 0
100
0
−100
−200
−300
−400
−500
−600
−700

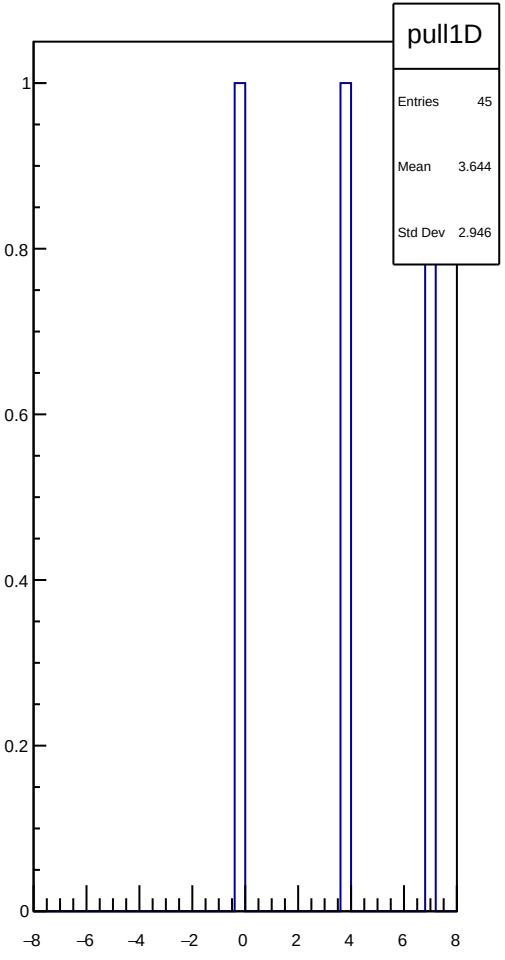

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

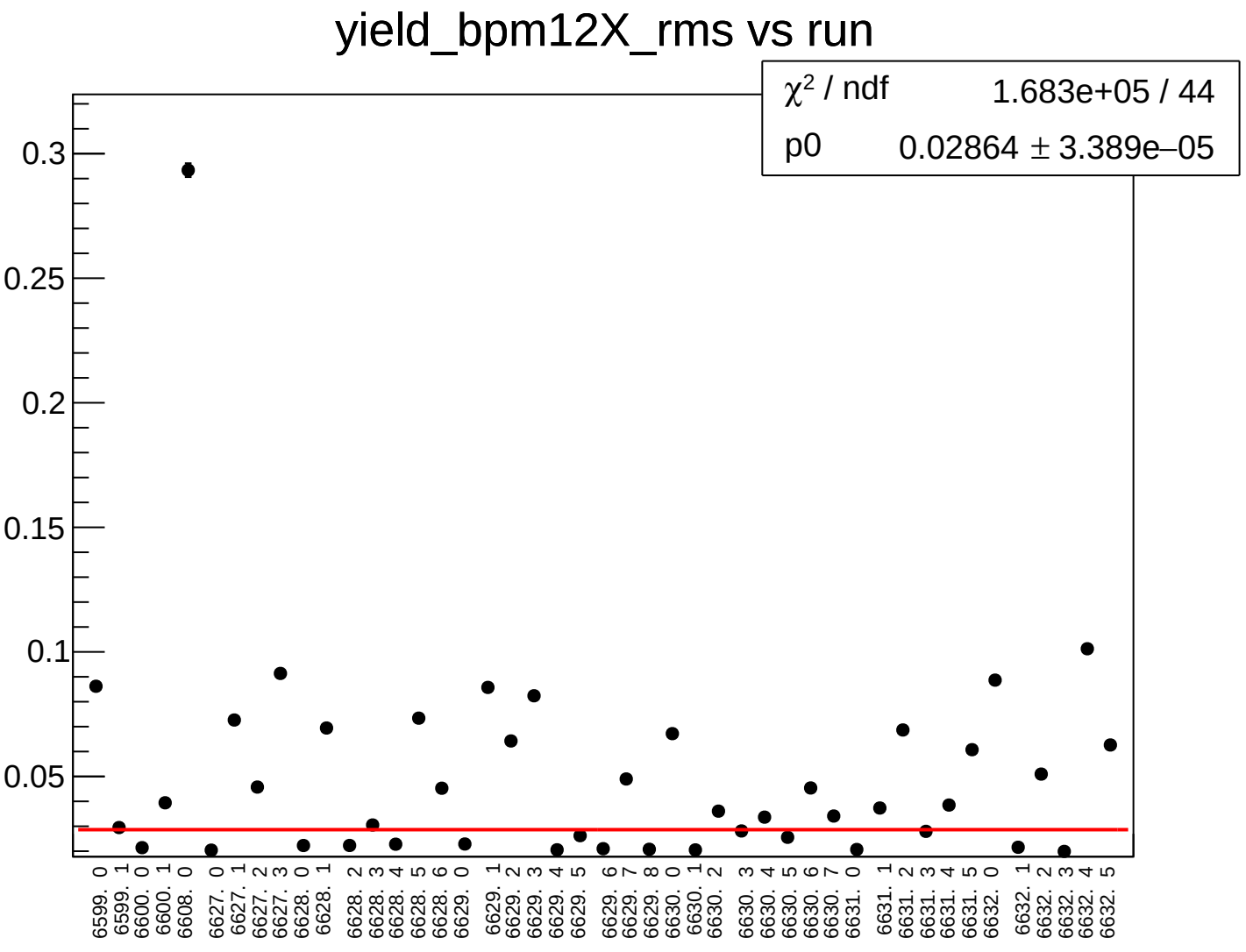

yield_bpm11X_rms vs run
χ² / ndf 1.561e+05 / 44
p0 0.01121 ± 1.315e−05
0.06
0.05
0.04
0.03
0.02
0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

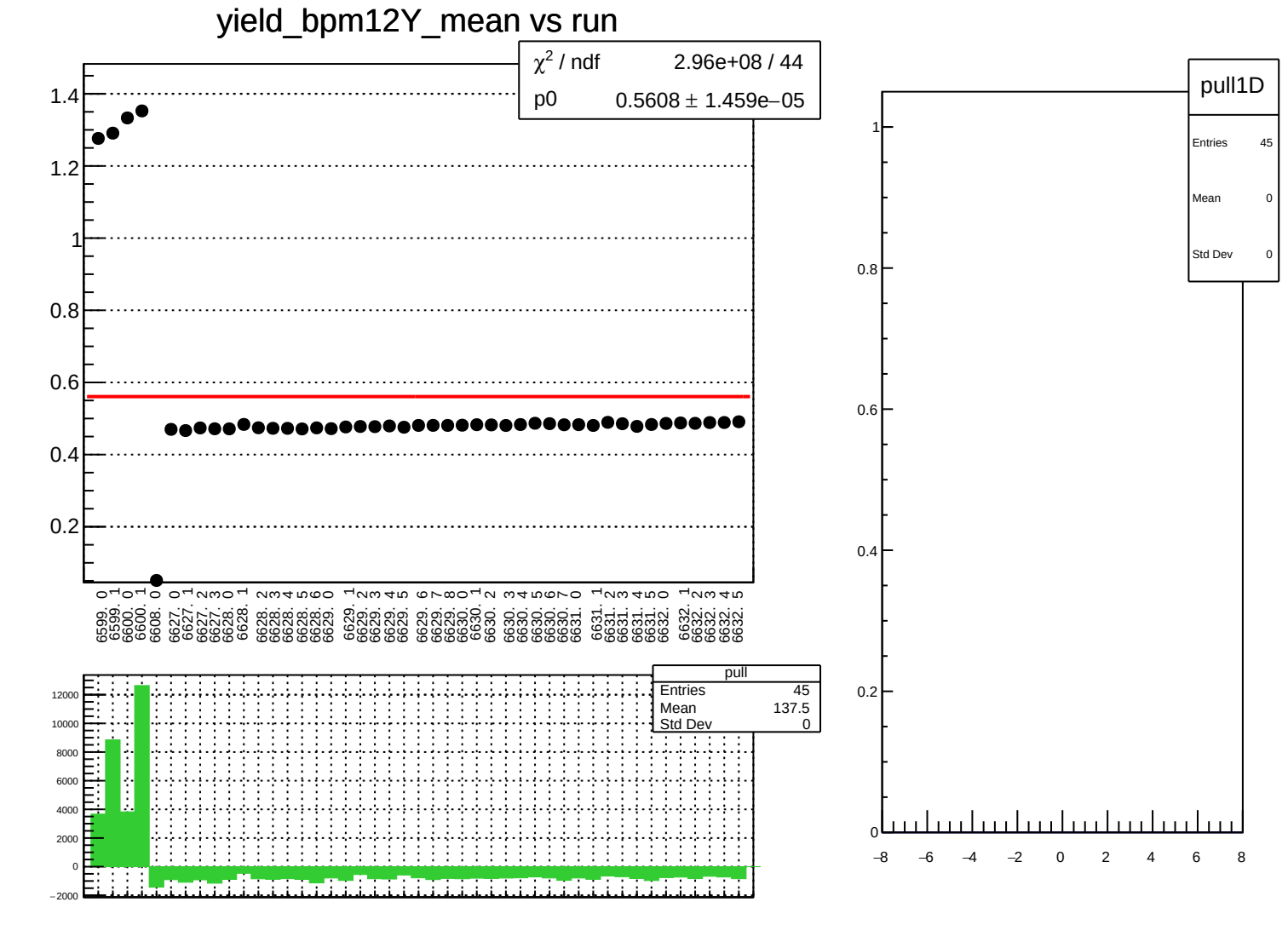

yield_bpm11Y_mean vs run
χ² / ndf 3.547e+08 / 44
p0 −0.6149 ± 2.192e−05
0.5
0
−0.5
−1
−1.5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 180.9
Std Dev 0
14000
12000
10000
8000
6000
4000
2000
0
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

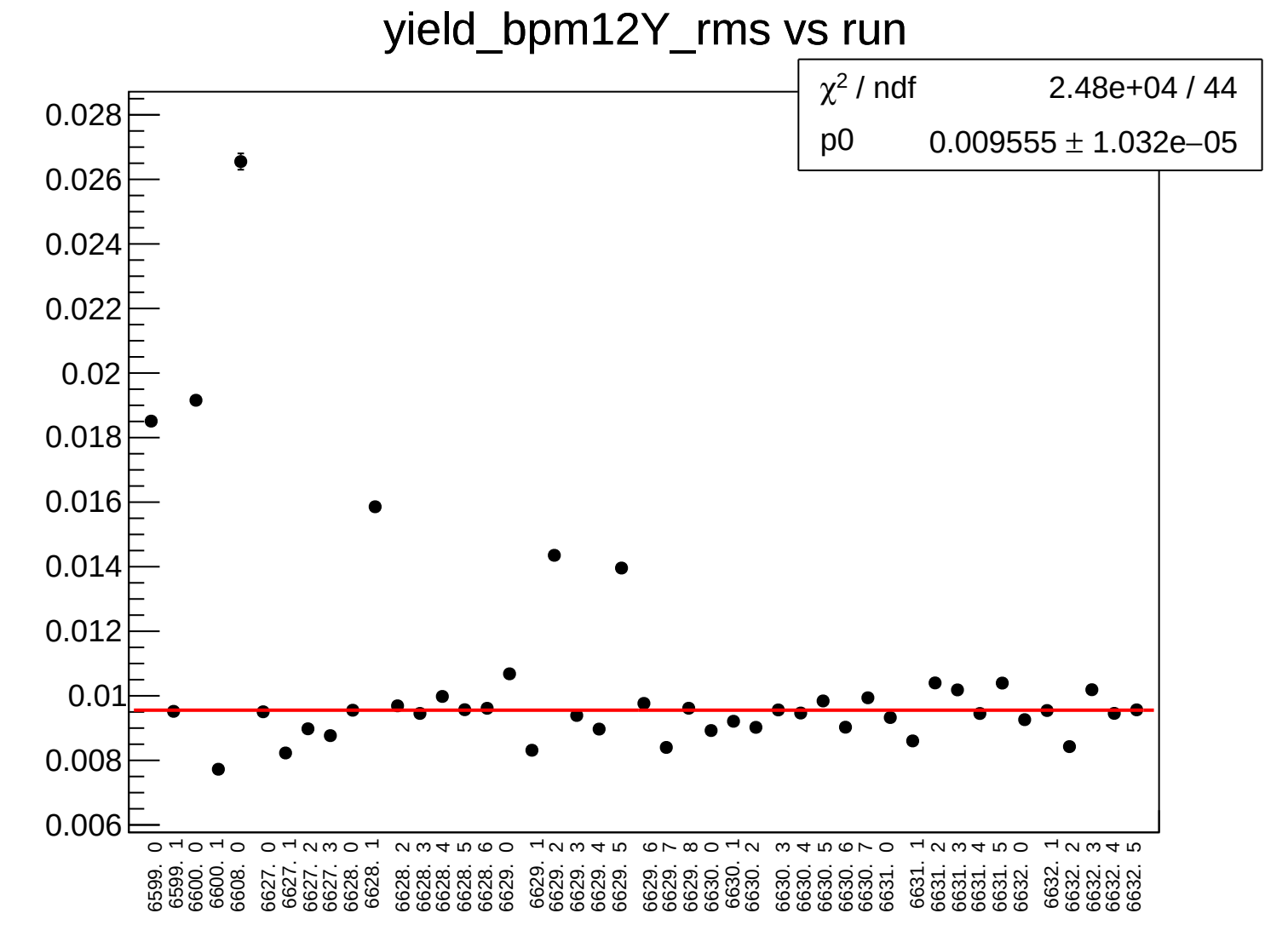

yield_bpm11Y_rms vs run
χ² / ndf 2.802e+04 / 44
p0 0.01433 ± 1.55e−05
0.06
0.05
0.04
0.03
0.02
0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

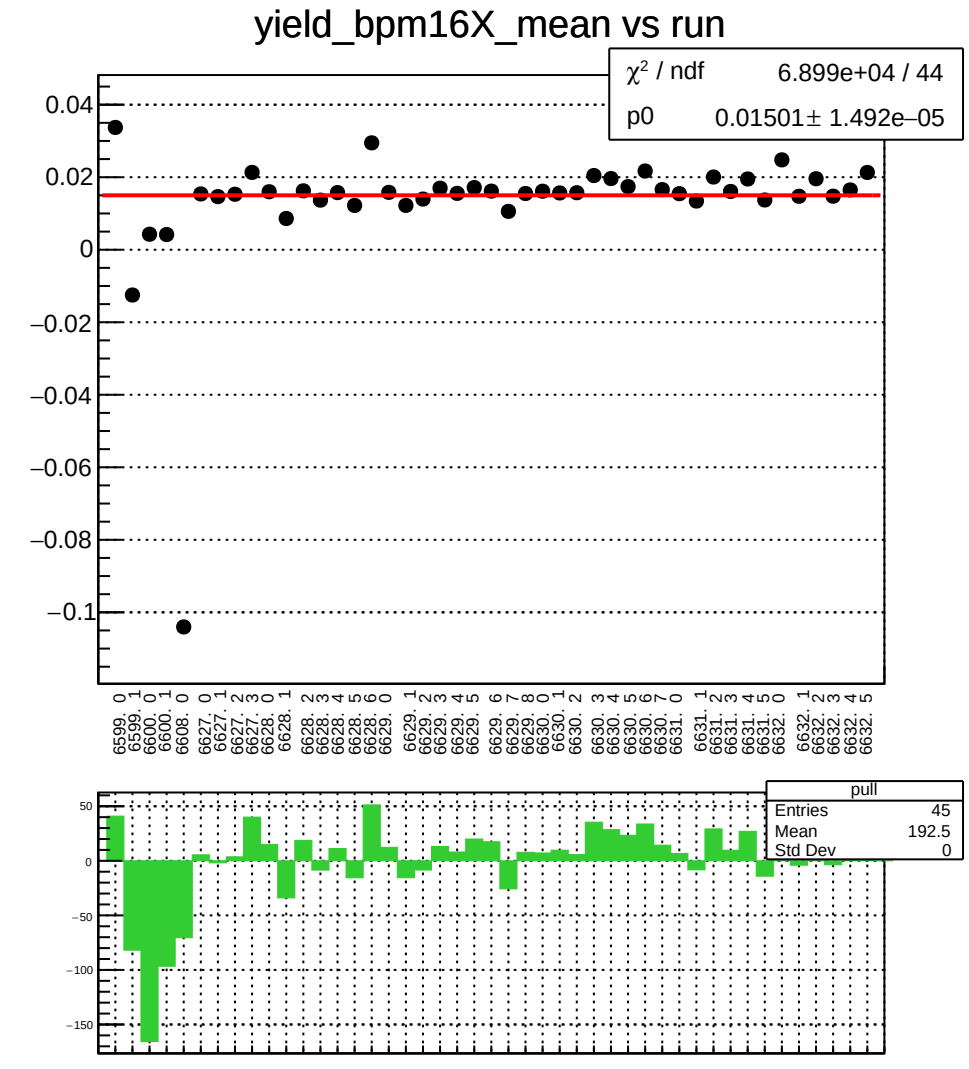

yield_bpm12X_mean vs run
χ² / ndf 4.022e+05 / 44
p0 0.6459 ± 4.792e−05
pull
Entries 45
Mean 111.3
Std Dev 0

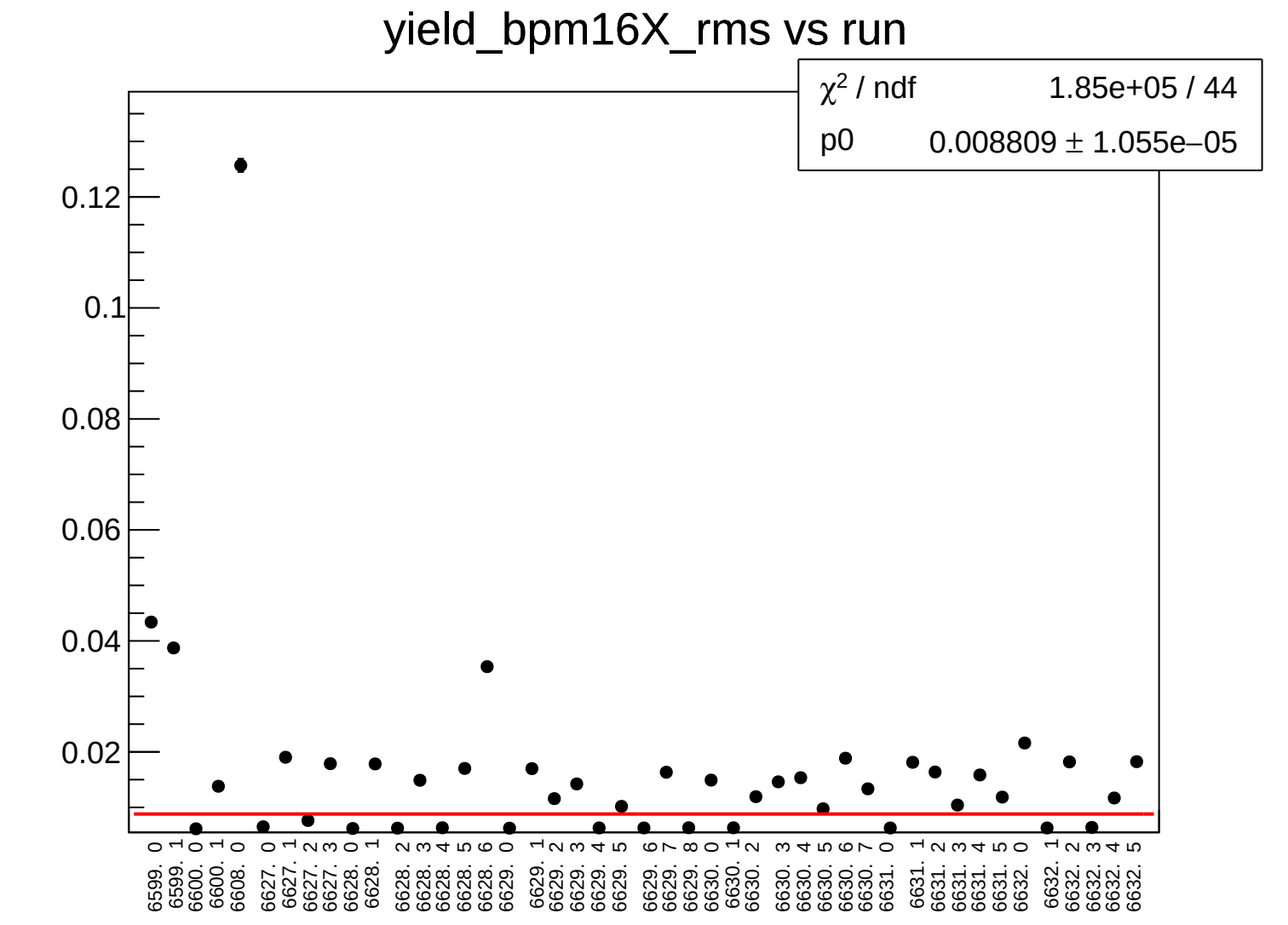

pull1D
Entries 45
Mean 3.644
Std Dev 2.946

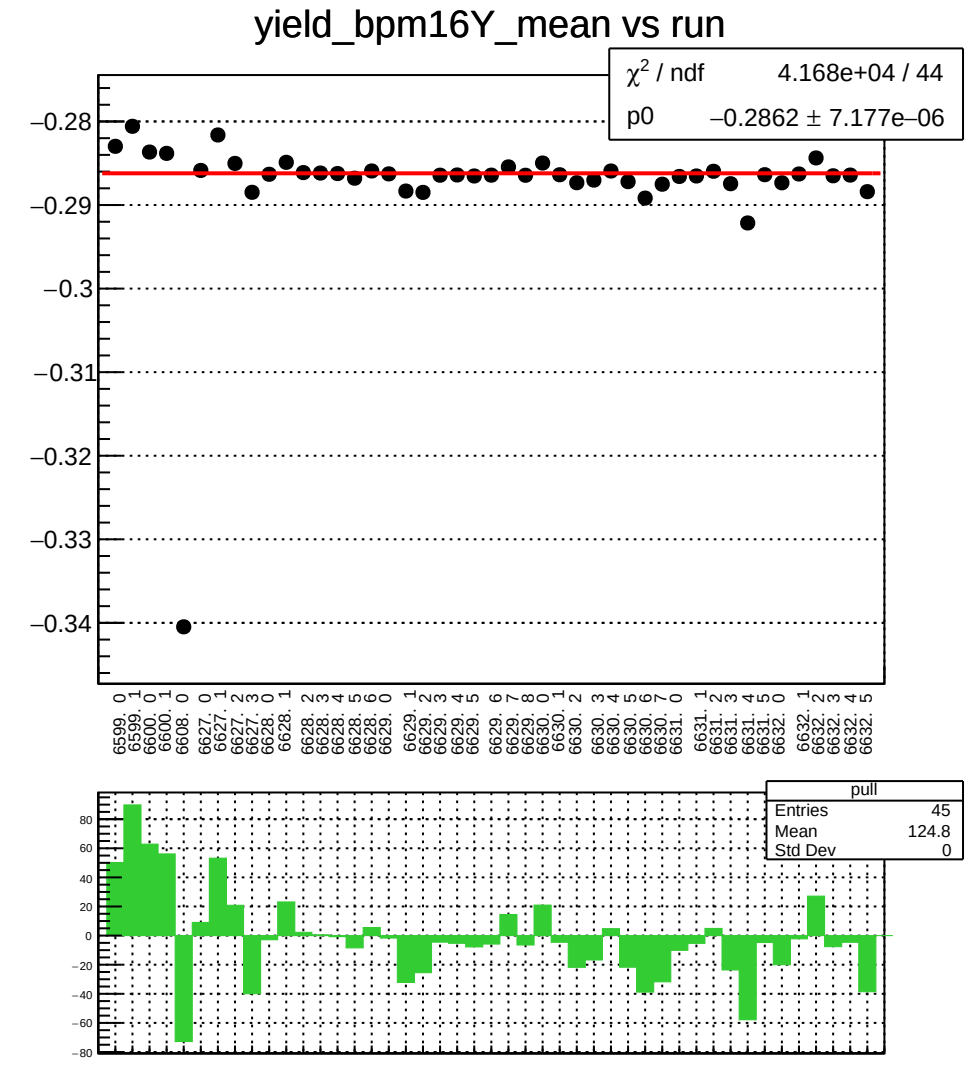

yield_bpm12X_rms vs run
χ² / ndf 1.683e+05 / 44
p0 0.02864 ± 3.389e–05
0.3
0.25
0.2
0.15
0.1
0.05
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

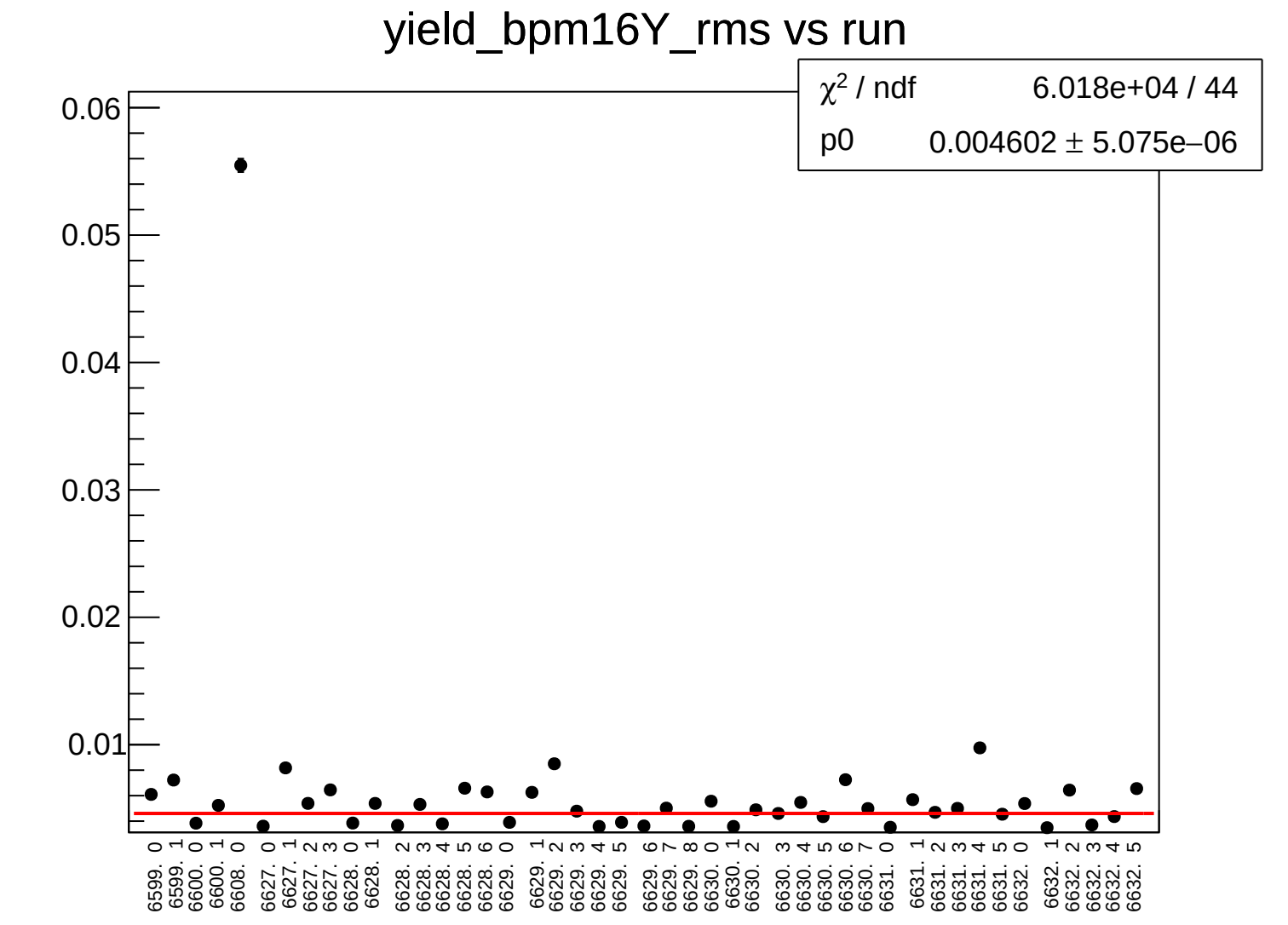

yield_bpm12Y_mean vs run
χ² / ndf 2.96e+08 / 44
p0 0.5608 ± 1.459e−05
1.4
1.2
1
0.8
0.6
0.4
0.2
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 137.5
Std Dev 0
12000
10000
8000
6000
4000
2000
0
−2000
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

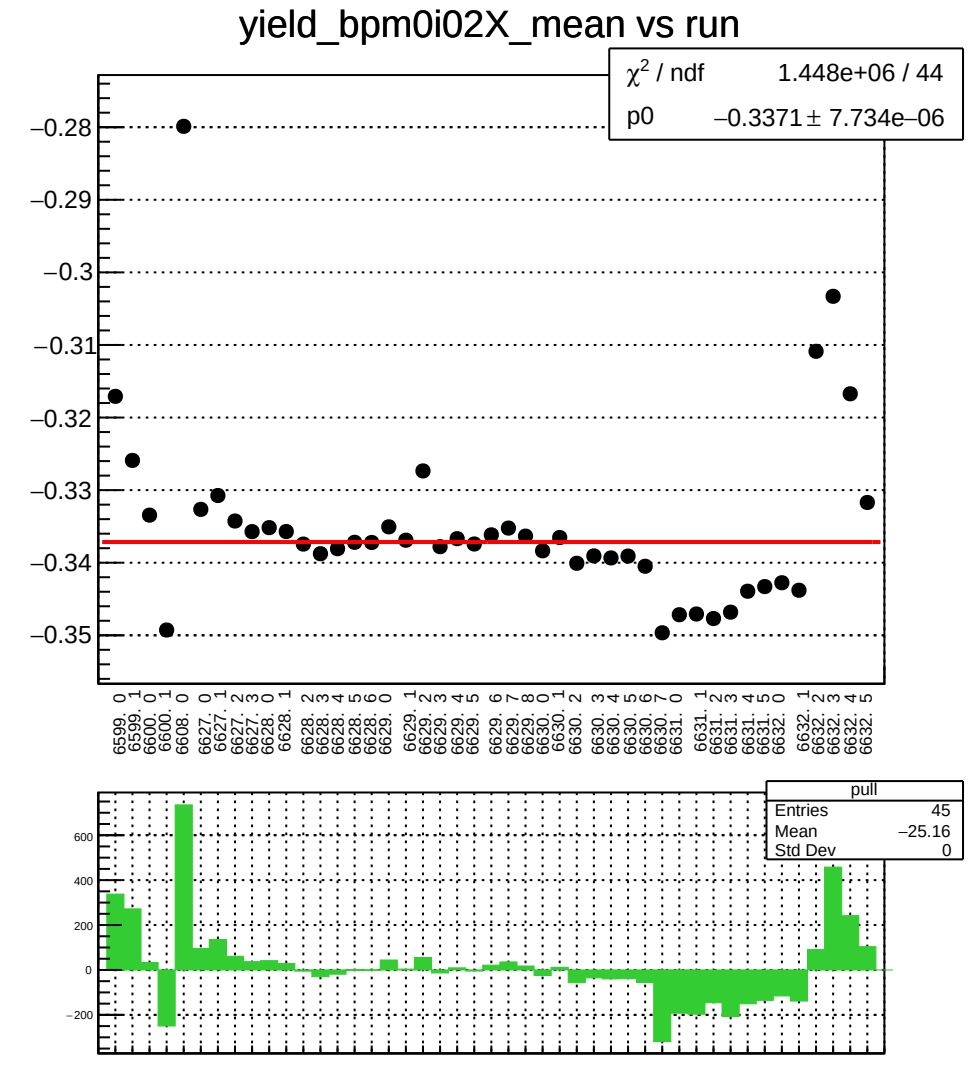

yield_bpm12Y_rms vs run
χ² / ndf 2.48e+04 / 44
p0 0.009555 ± 1.032e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

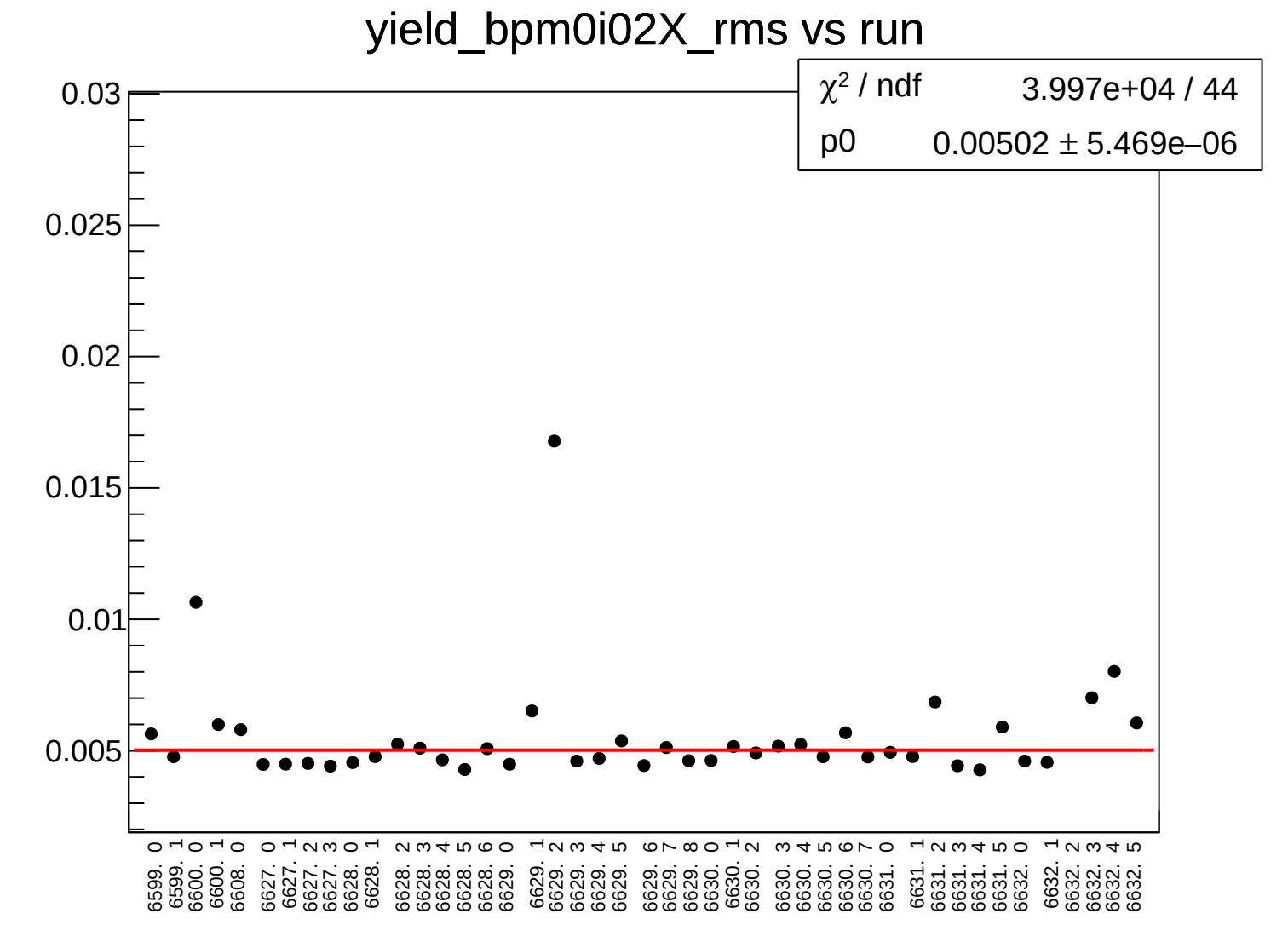

yield_bpm16X_mean vs run
χ² / ndf 6.899e+04 / 44
p0 0.01501± 1.492e−05
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 192.5
Std Dev 0
50
0
−50
−100
−150
pull1D
Entries 45
Mean 3.012
Std Dev 4.524
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 1.85e+05 / 44
p0 0.008809 ± 1.055e−05
0.12
0.1
0.08
0.06
0.04
0.02
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


yield_bpm16Y_mean vs run
χ² / ndf 4.168e+04 / 44
p0 −0.2862 ± 7.177e−06
−0.28
−0.29
−0.3
−0.31
−0.32
−0.33
−0.34
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 124.8
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 45
Mean −2.43
Std Dev 4.121
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm16Y_rms vs run
χ² / ndf 6.018e+04 / 44
p0 0.004602 ± 5.075e−06
0.06
0.05
0.04
0.03
0.02
0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


yield_bpm0i02X_mean vs run
χ² / ndf 1.448e+06 / 44
p0 −0.3371 ± 7.734e−06
−0.28
−0.29
−0.3
−0.31
−0.32
−0.33
−0.34
−0.35
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −25.16
Std Dev 0
600
400
200
0
−200
pull1D
Entries 45
Mean −1.749
Std Dev 3.184
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 3.997e+04 / 44
p0 0.00502 ± 5.469e–06
0.03
0.025
0.02
0.015
0.01
0.005
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
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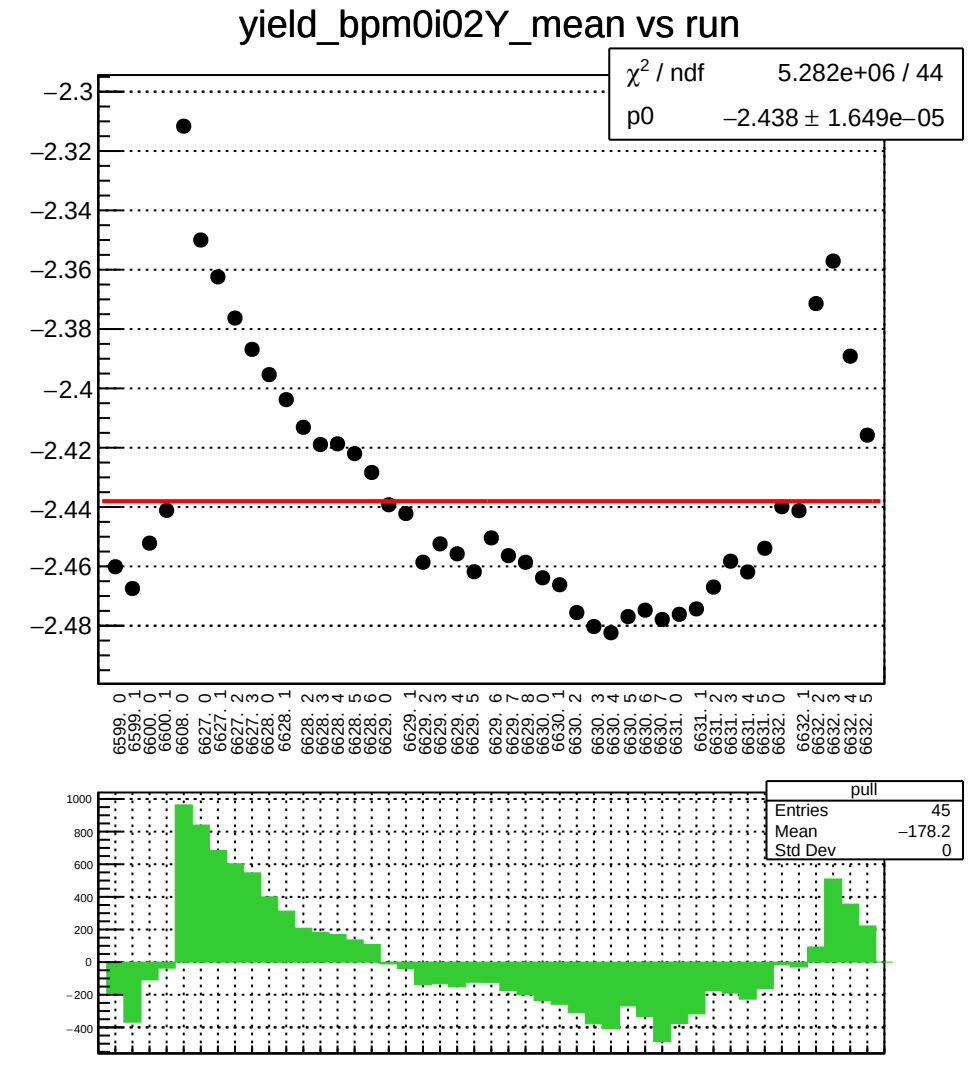
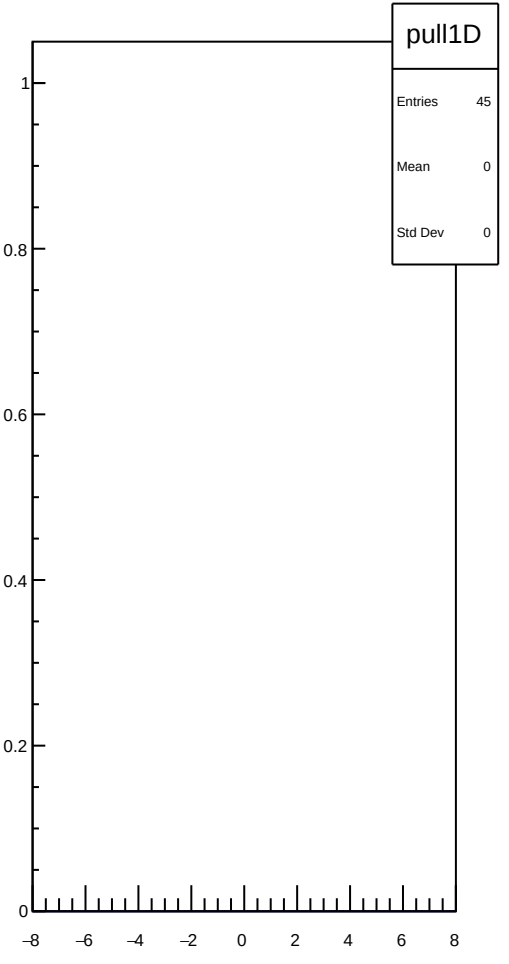
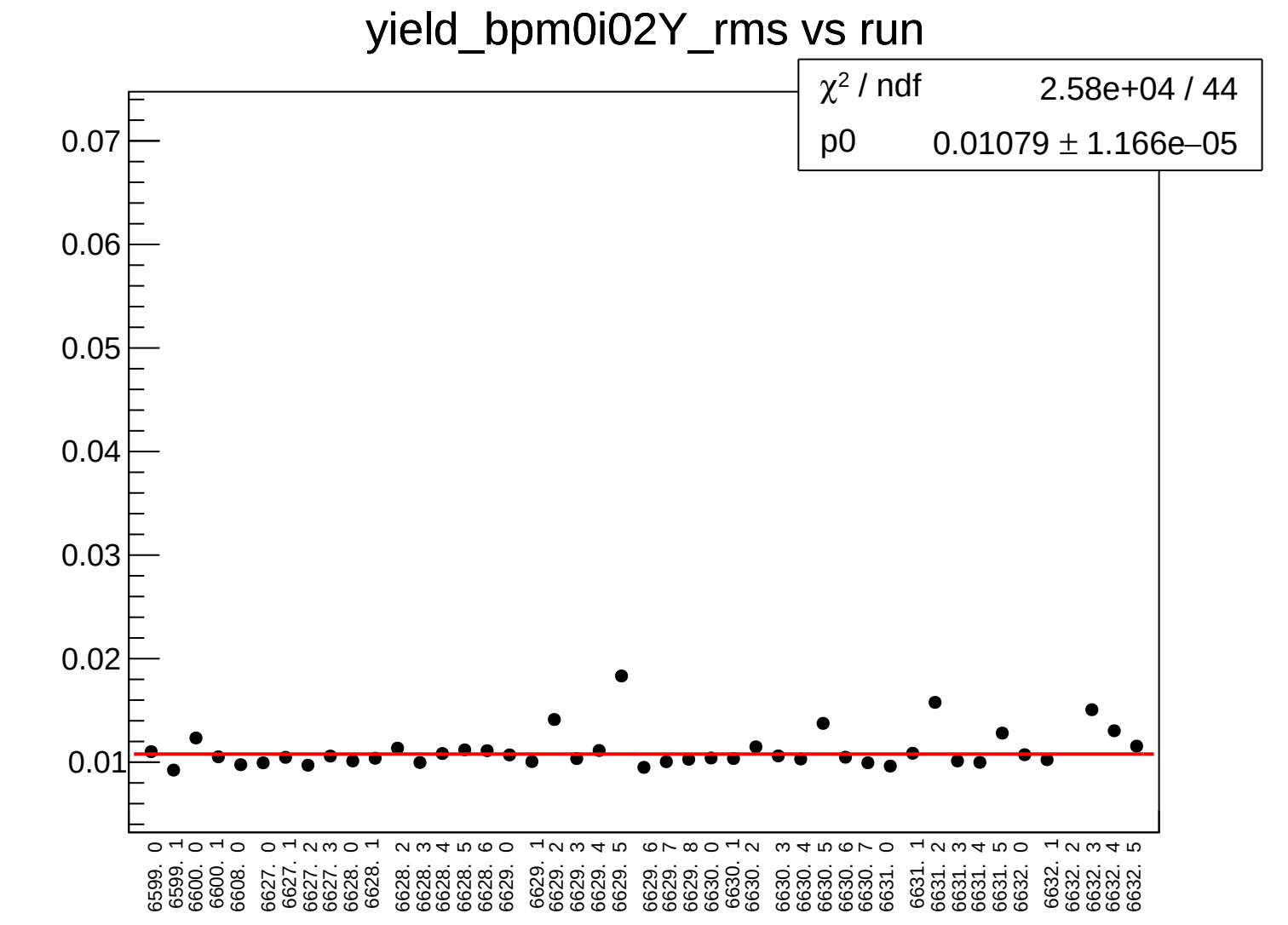
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


yield_bpm0i02Y_mean vs run
χ² / ndf 5.282e+06 / 44
p0 −2.438 ± 1.649e−05
−2.3
−2.32
−2.34
−2.36
−2.38
−2.4
−2.42
−2.44
−2.46
−2.48
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −178.2
Std Dev 0
1000
800
600
400
200
0
−200
−400


pull1D
Entries 45
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_bpm0i02Y_rms vs run
χ² / ndf 2.58e+04 / 44
p0 0.01079 ± 1.166e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
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6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6632. 0
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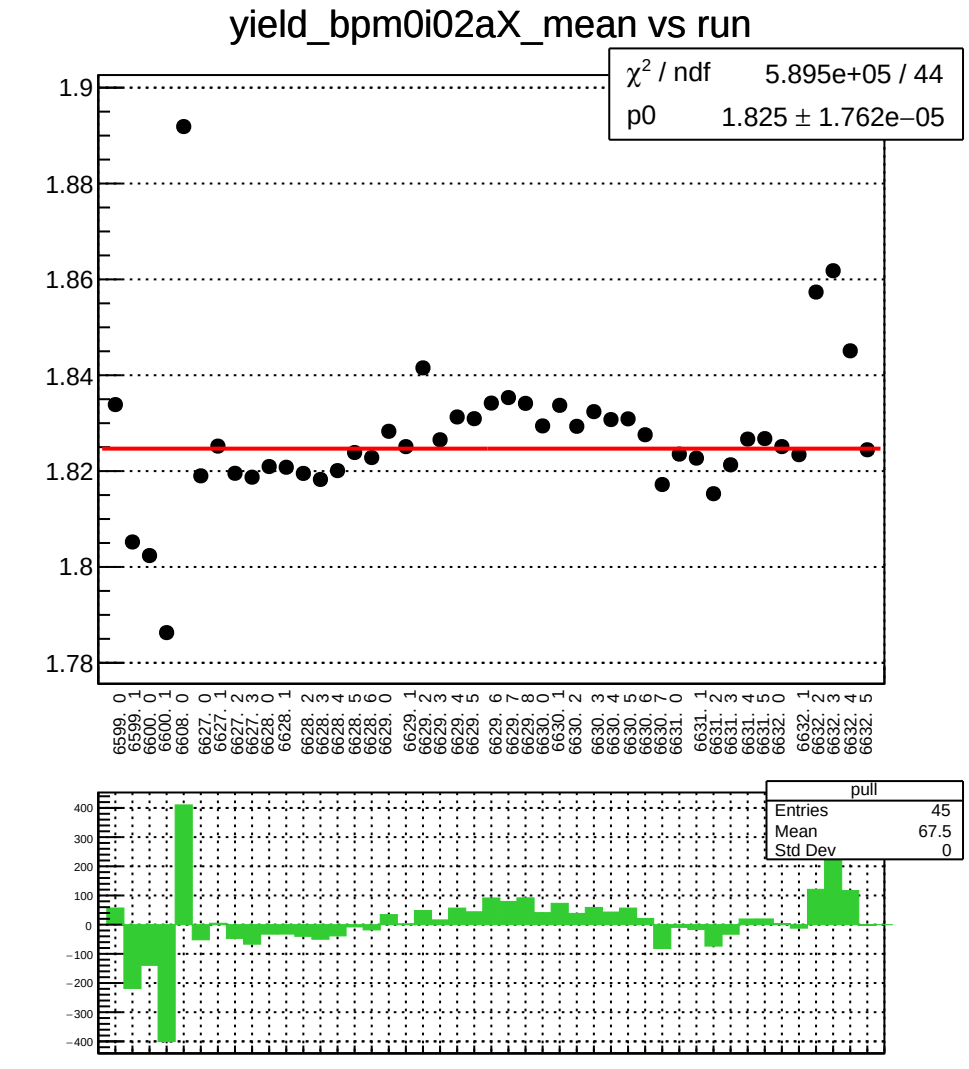
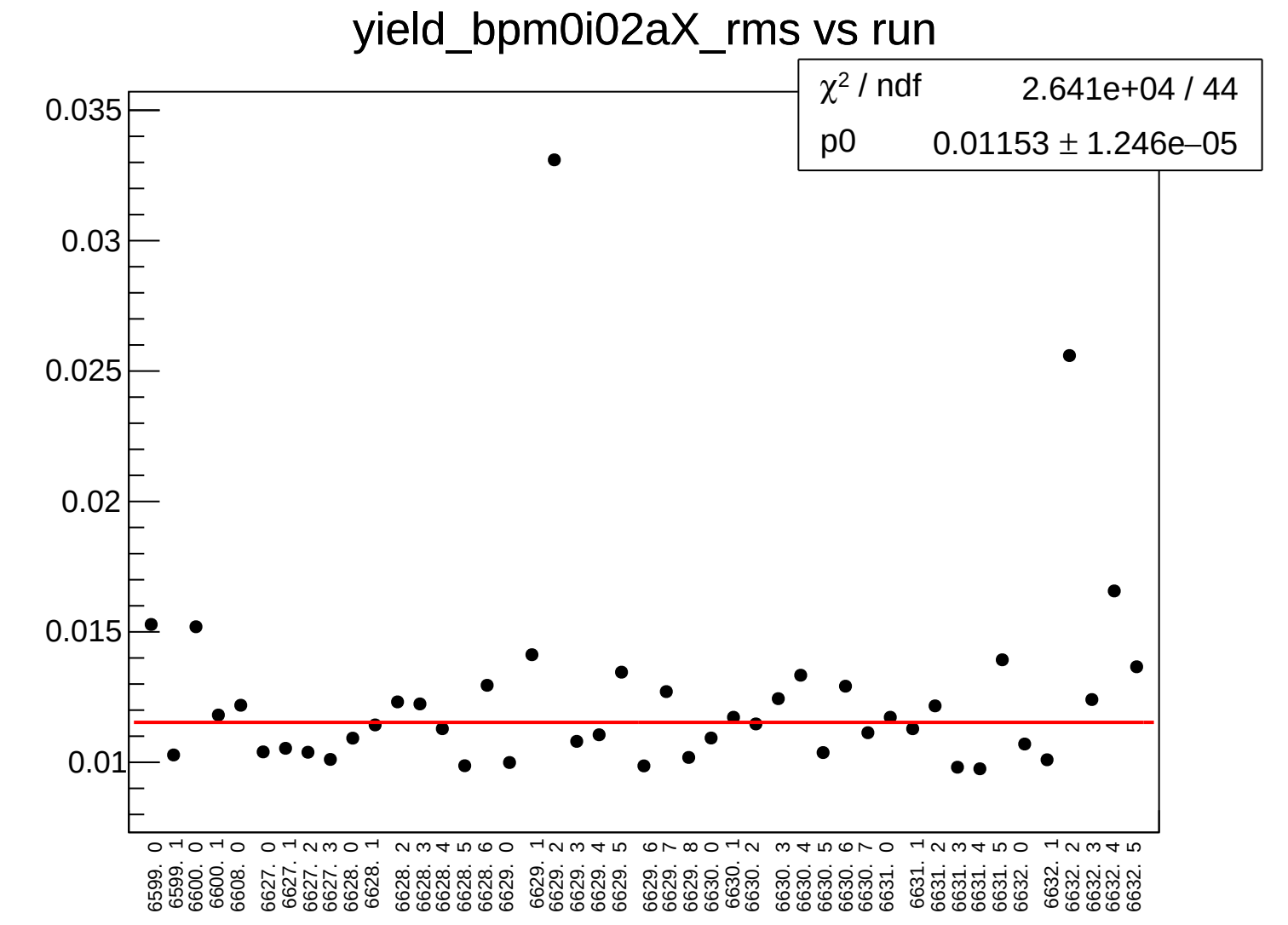

yield_bpm0i02aX_mean vs run
χ² / ndf 5.895e+05 / 44
p0 1.825 ± 1.762e−05
1.9
1.88
1.86
1.84
1.82
1.8
1.78
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 67.5
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400
pull1D
Entries 45
Mean 0.3186
Std Dev 4.664
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0i02aX_rms vs run
χ² / ndf 2.641e+04 / 44
p0 0.01153 ± 1.246e–05
0.035
0.03
0.025
0.02
0.015
0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
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6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
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6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
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6631. 2
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6632. 2
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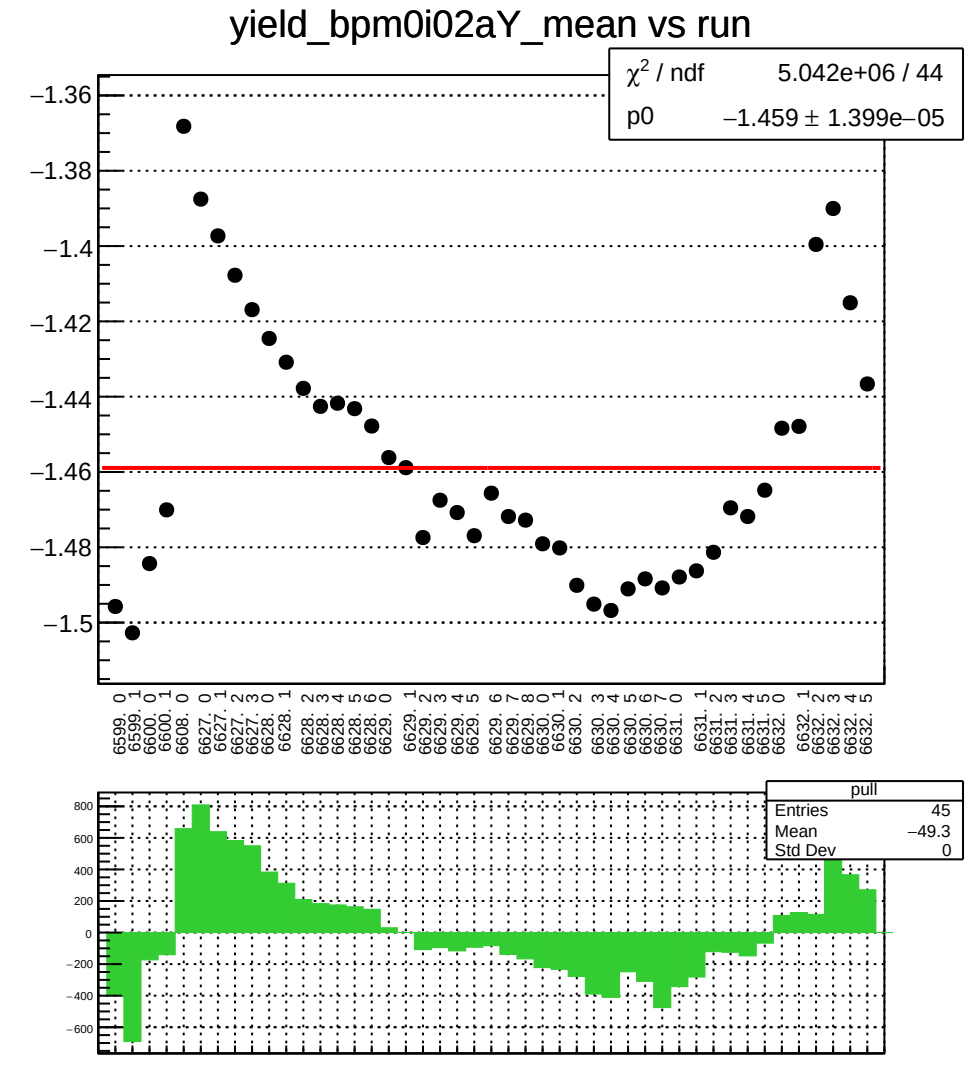
6632. 4
6632. 5


yield_bpm0i02aY_mean vs run
χ² / ndf 5.042e+06 / 44
p0 −1.459 ± 1.399e−05
−1.36
−1.38
−1.4
−1.42
−1.44
−1.46
−1.48
−1.5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
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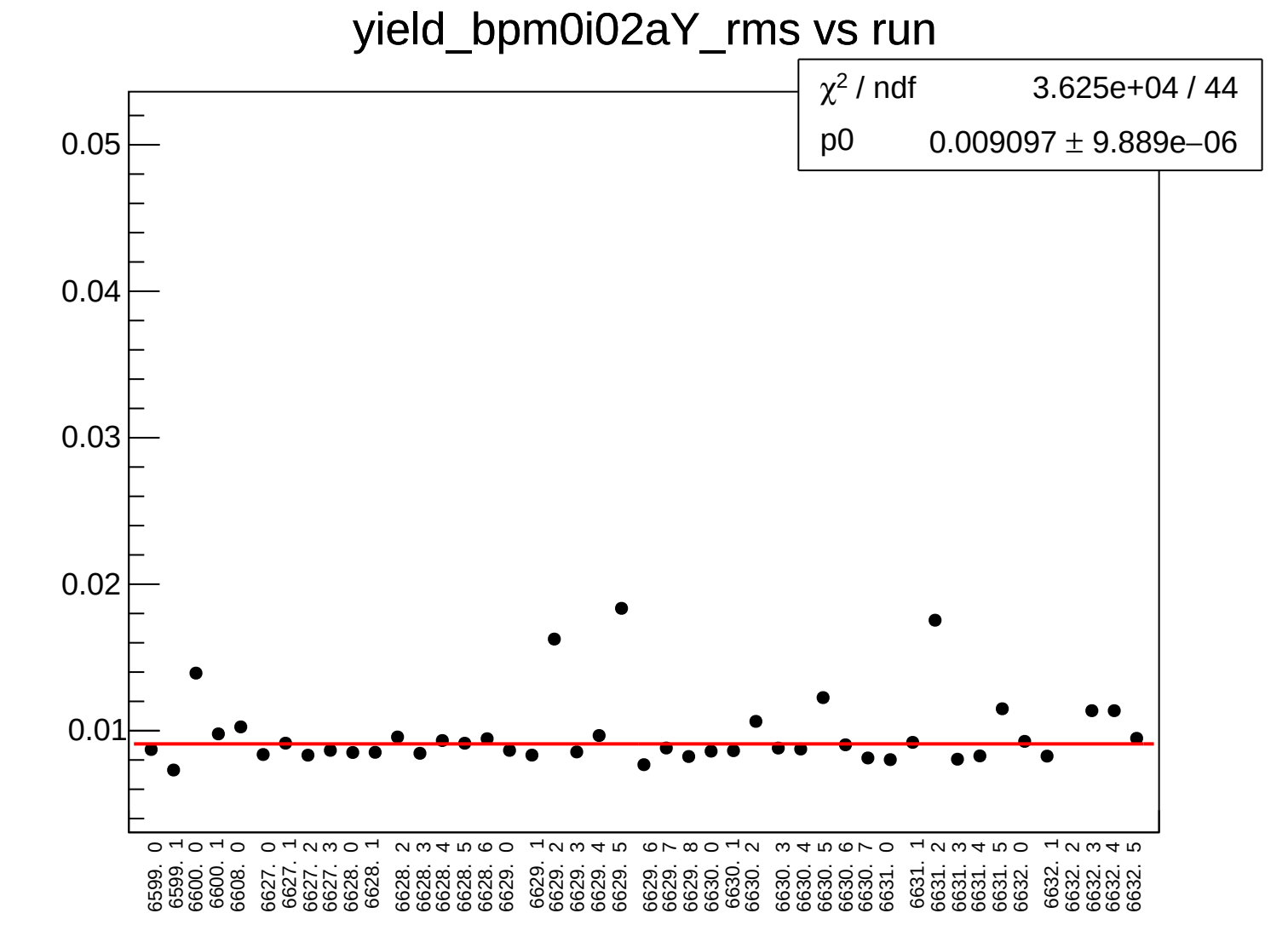
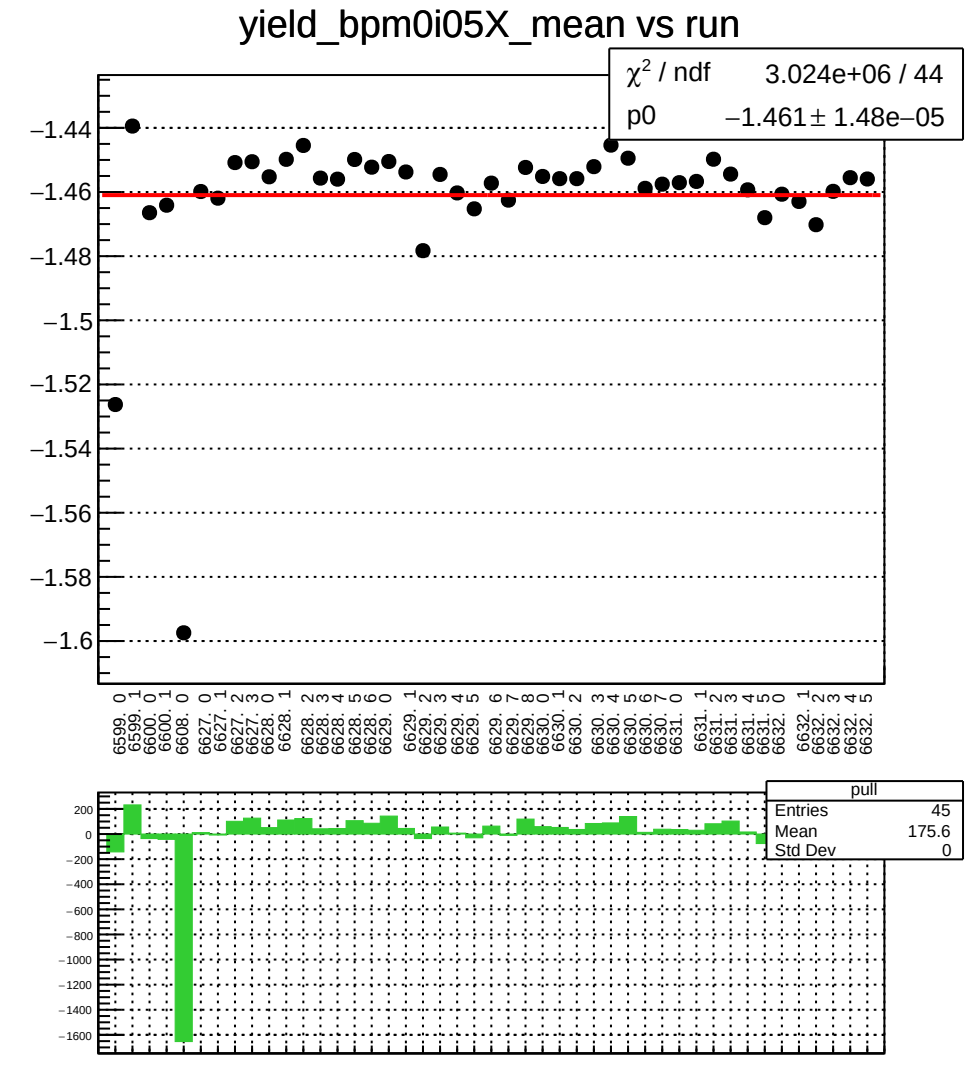
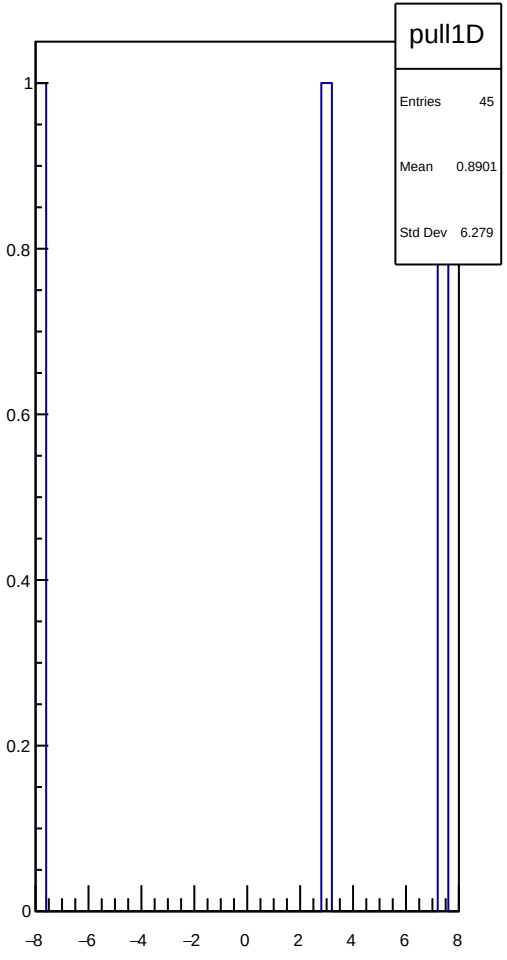
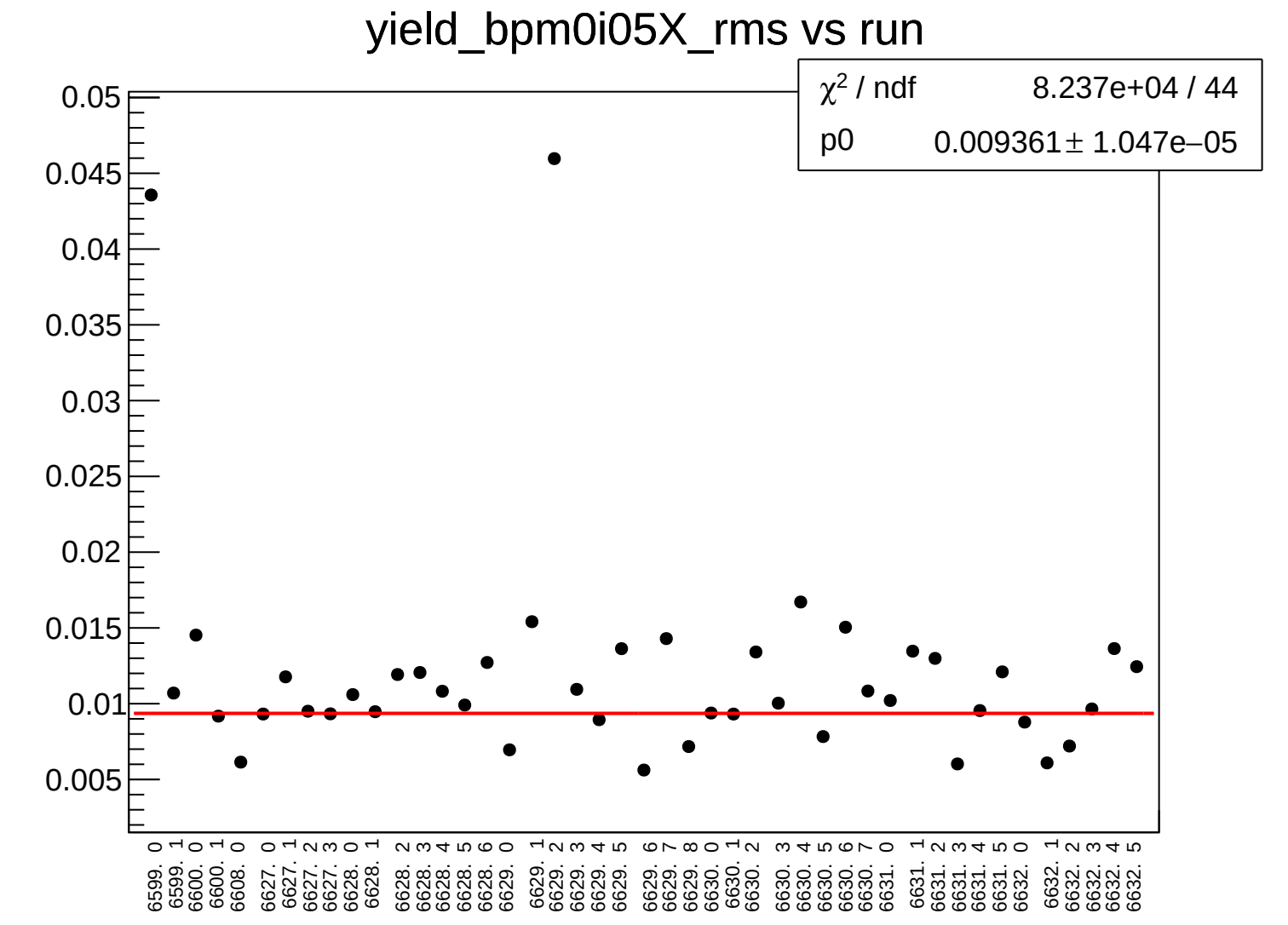
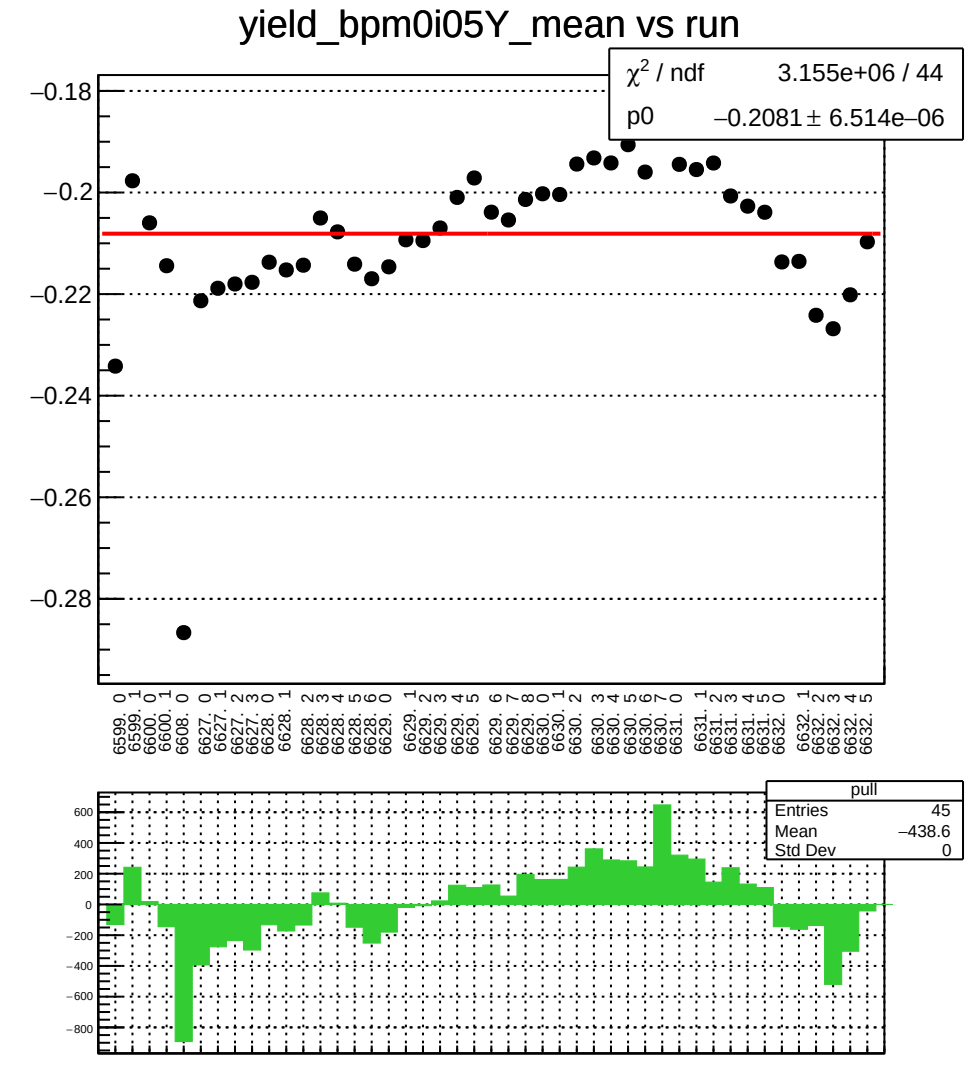
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −49.3
Std Dev 0
800
600
400
200
0
−200
−400
−600
pull1D
Entries 45
Mean 0.72
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

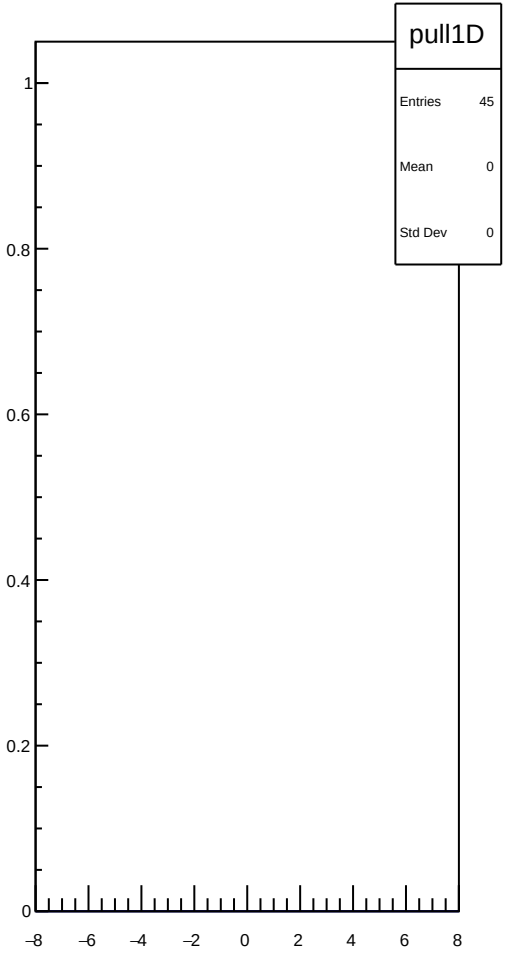

yield_bpm0i02aY_rms vs run
χ² / ndf 3.625e+04 / 44
p0 0.009097 ± 9.889e−06
0.05
0.04
0.03
0.02
0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

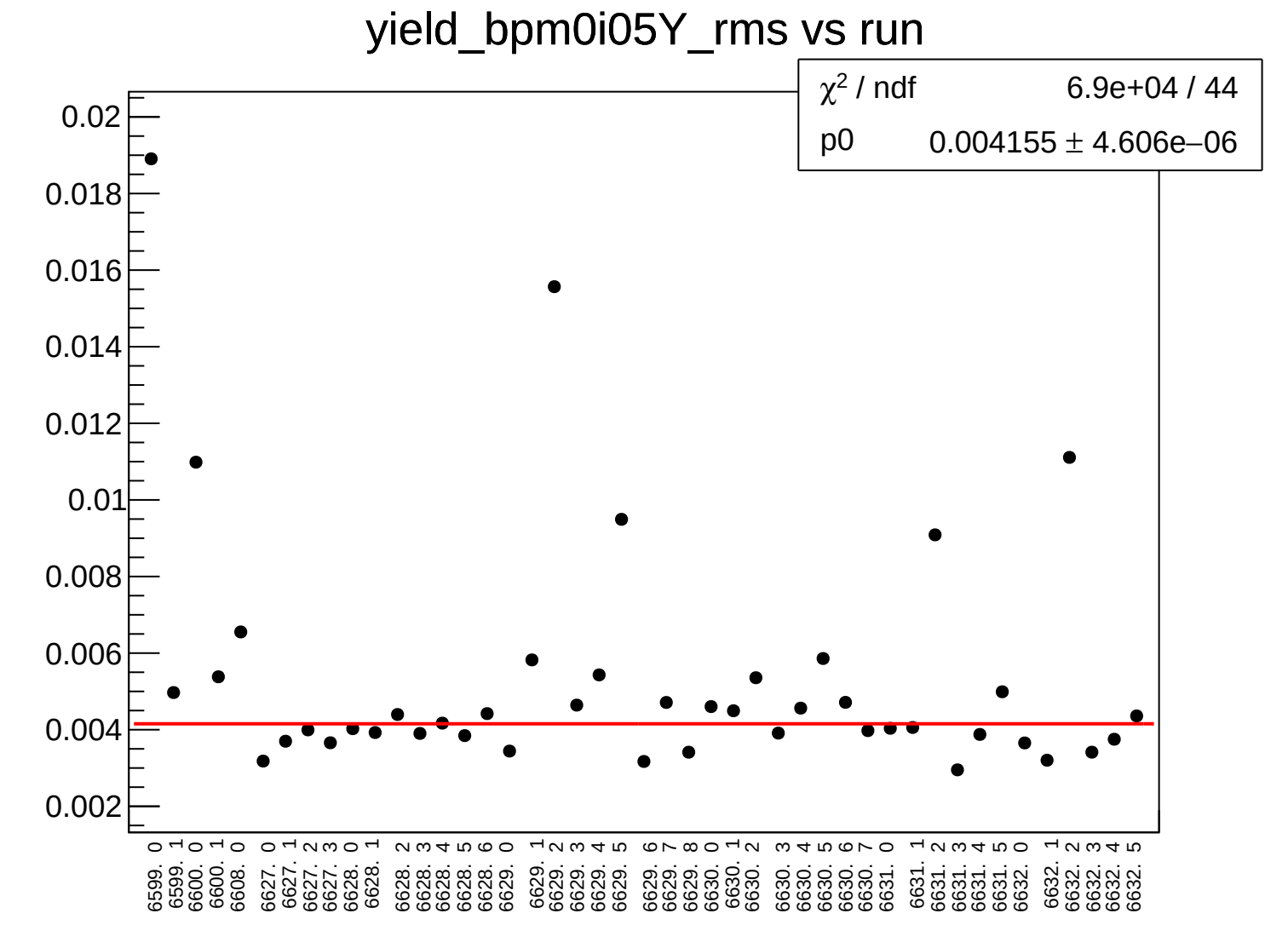

yield_bpm0i05X_mean vs run
χ² / ndf 3.024e+06 / 44
p0 −1.461 ± 1.48e−05
−1.44
−1.46
−1.48
−1.5
−1.52
−1.54
−1.56
−1.58
−1.6
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 175.6
Std Dev 0
200
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600

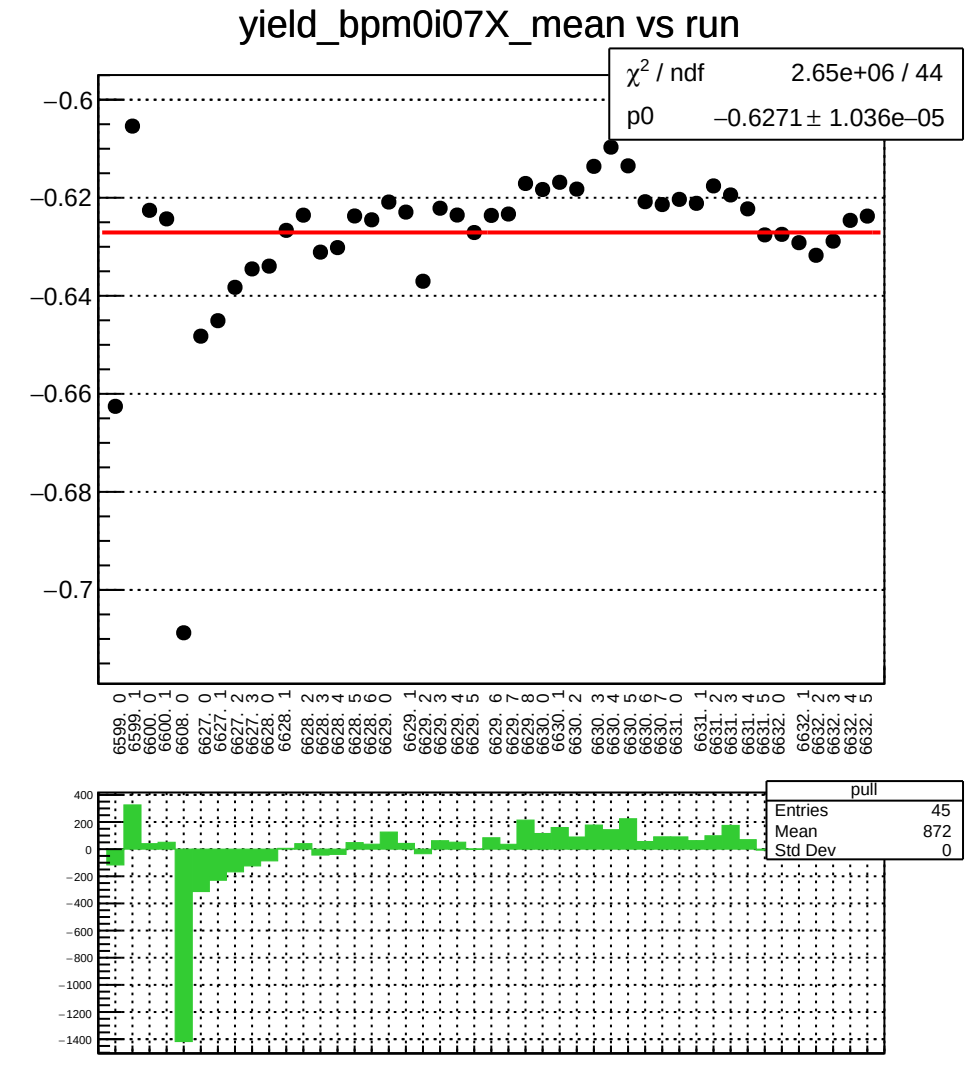

pull1D
Entries 45
Mean 0.8901
Std Dev 6.279
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0i05X_rms vs run
χ² / ndf 8.237e+04 / 44
p0 0.009361 ± 1.047e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


yield_bpm0i05Y_mean vs run
χ² / ndf 3.155e+06 / 44
p0 −0.2081 ± 6.514e−06
−0.18
−0.2
−0.22
−0.24
−0.26
−0.28
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −438.6
Std Dev 0
600
400
200
0
−200
−400
−600
−800


pull1D
Entries 45
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_bpm0i05Y_rms vs run
χ² / ndf 6.9e+04 / 44
p0 0.004155 ± 4.606e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


yield_bpm0i07X_mean vs run
χ² / ndf 2.65e+06 / 44
p0 −0.6271 ± 1.036e−05
−0.6
−0.62
−0.64
−0.66
−0.68
−0.7
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
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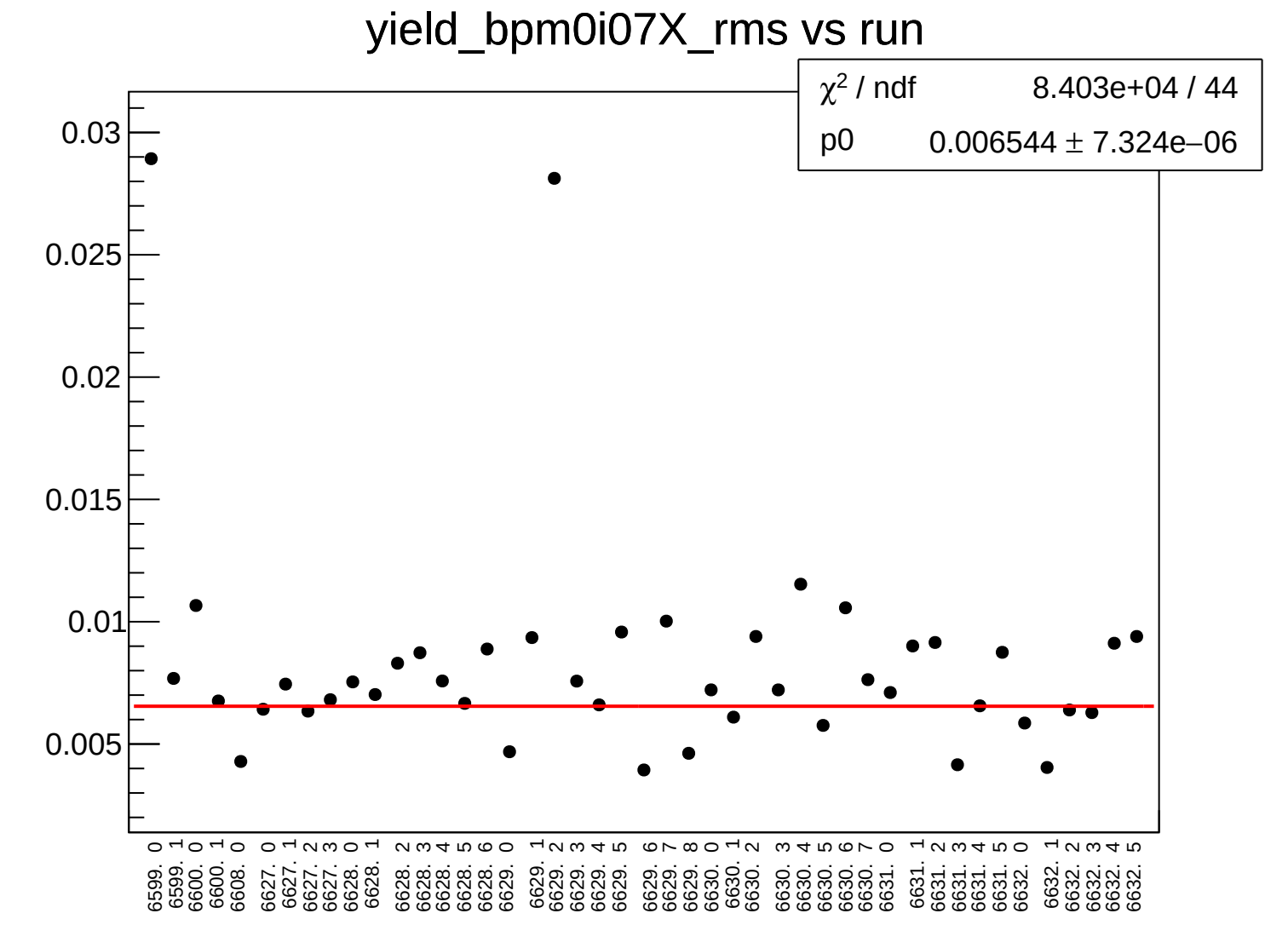
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 872
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400
pull1D
Entries 45
Mean −1.964
Std Dev 5.267
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0i07X_rms vs run
χ² / ndf 8.403e+04 / 44
p0 0.006544 ± 7.324e−06
0.03
0.025
0.02
0.015
0.01
0.005
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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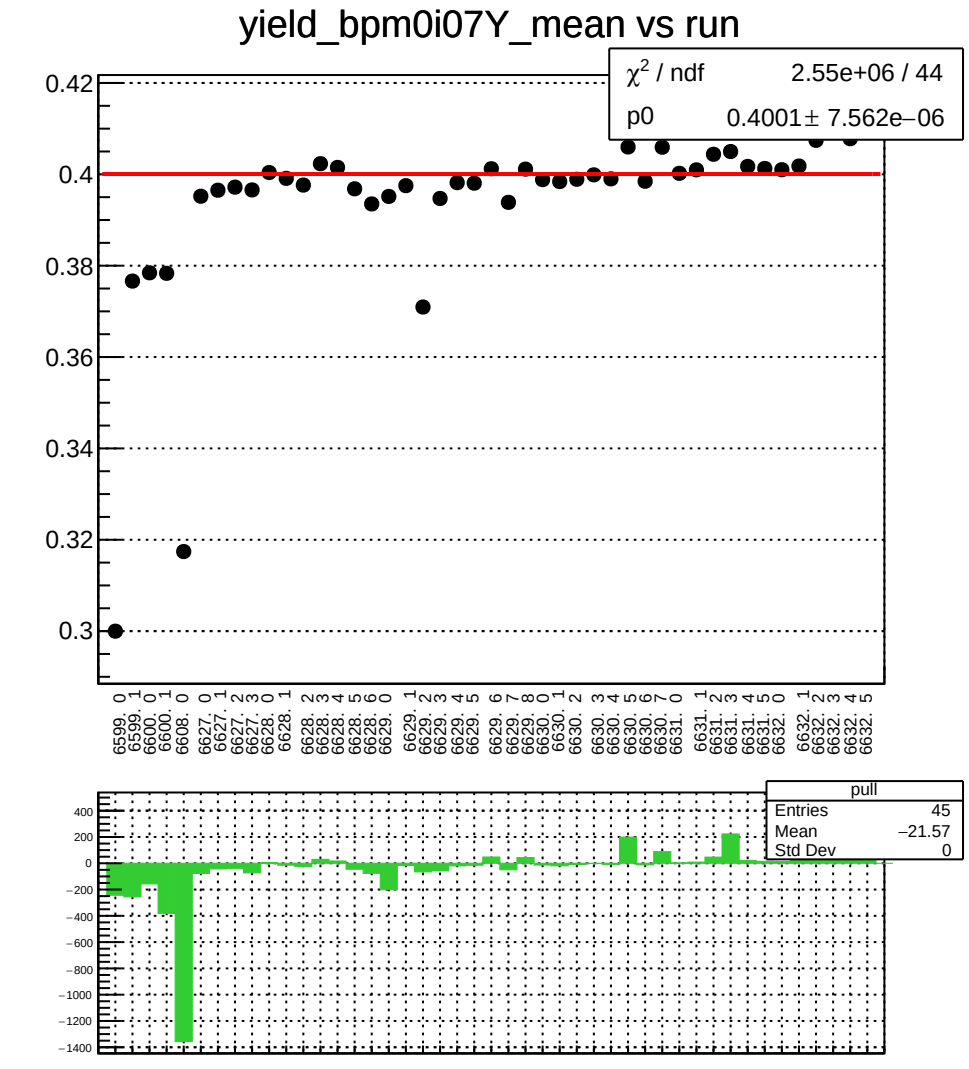
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


yield_bpm0i07Y_mean vs run
χ² / ndf 2.55e+06 / 44
p0 0.4001 ± 7.562e−06
0.42
0.4
0.38
0.36
0.34
0.32
0.3
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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6628. 2
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6628. 6
6629. 0
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6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
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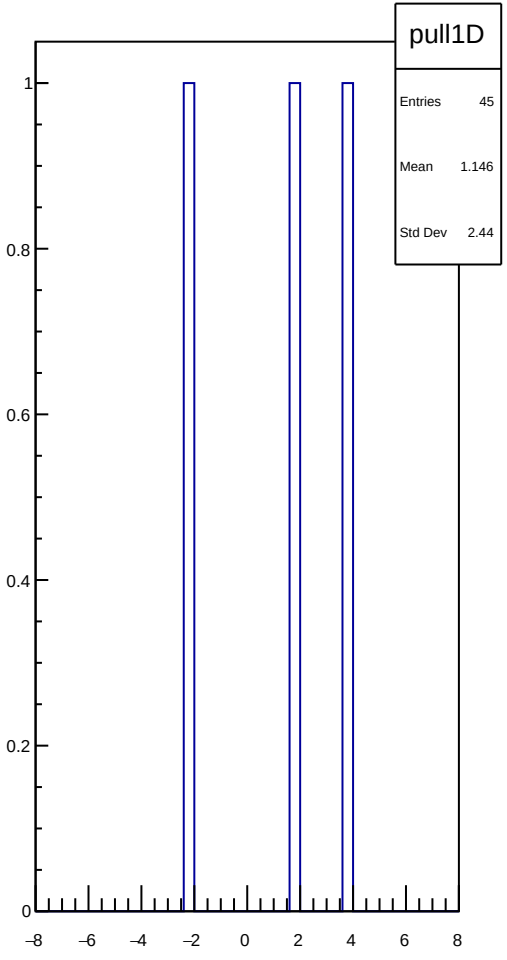
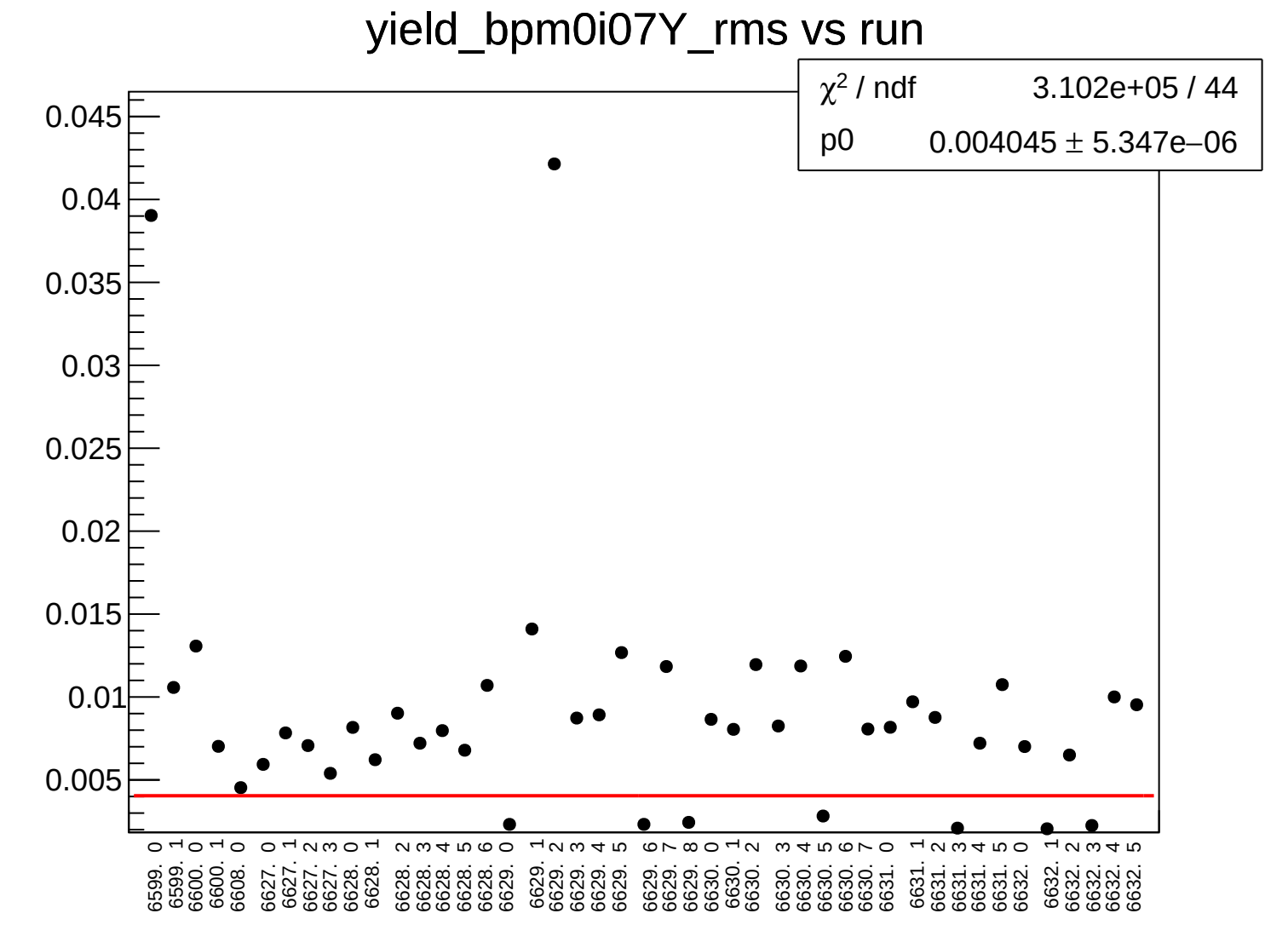
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −21.57
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400


pull1D
Entries 45
Mean 1.146
Std Dev 2.44
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 3.102e+05 / 44
p0 0.004045 ± 5.347e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
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6629. 4
6629. 5
6629. 6
6629. 7
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6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
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6631. 1
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6631. 4
6631. 5
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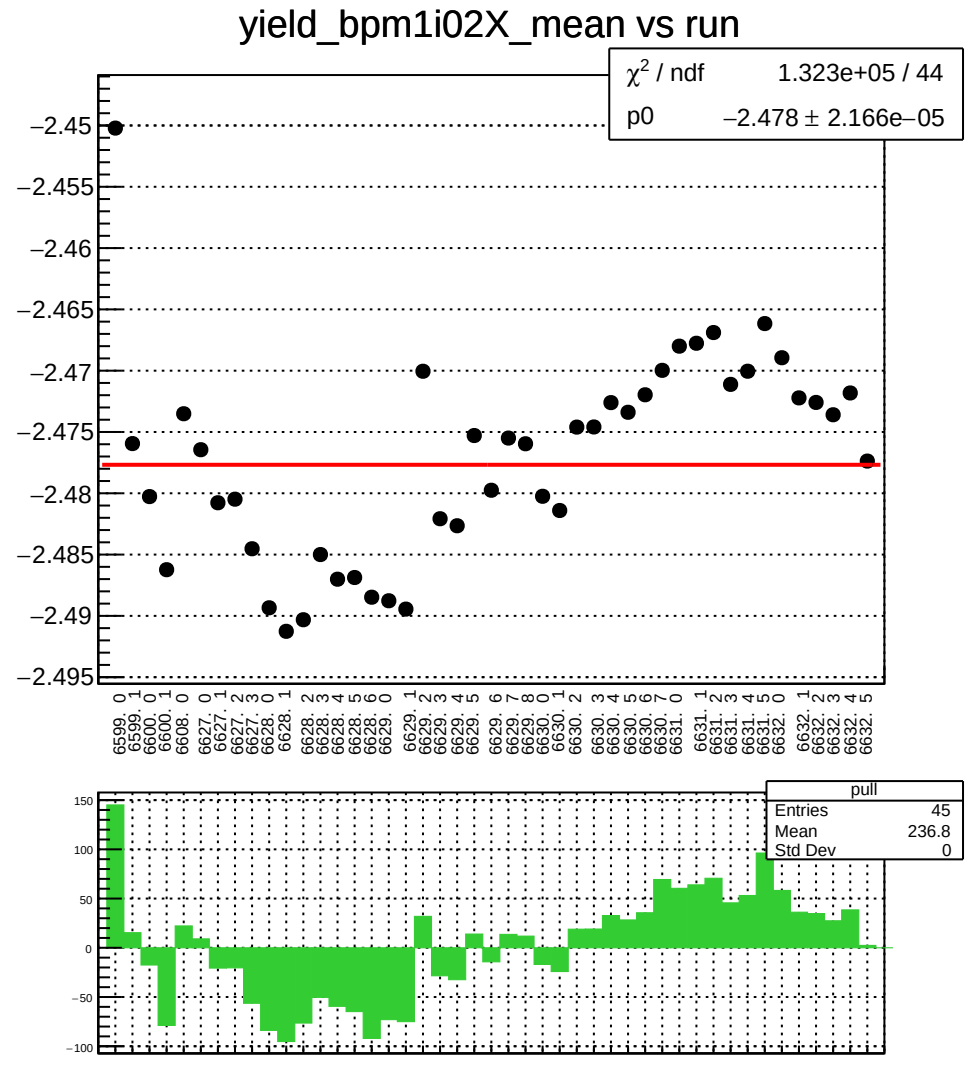
6632. 4
6632. 5


yield_bpm1i02X_mean vs run
χ² / ndf 1.323e+05 / 44
p0 −2.478 ± 2.166e−05
−2.45
−2.455
−2.46
−2.465
−2.47
−2.475
−2.48
−2.485
−2.49
−2.495
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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6628. 2
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6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
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6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
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6630. 3
6630. 4
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6630. 6
6630. 7
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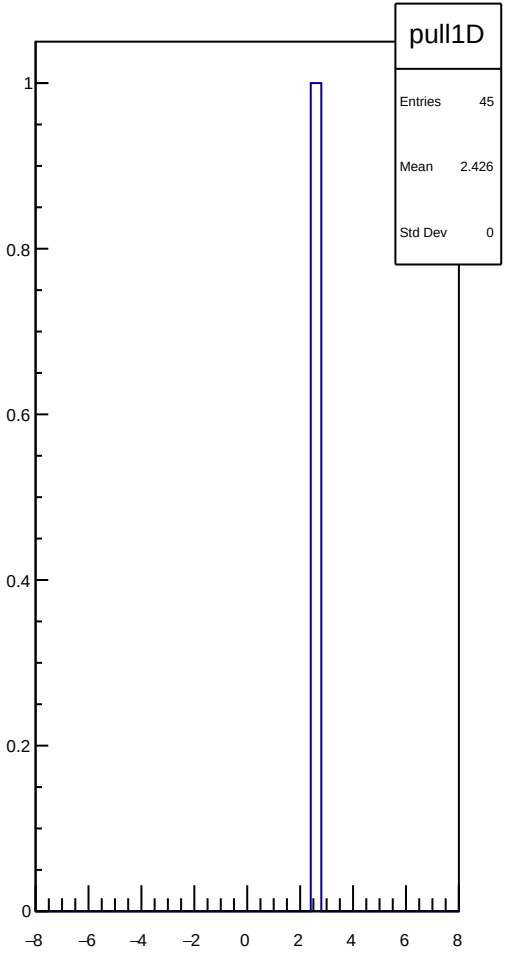
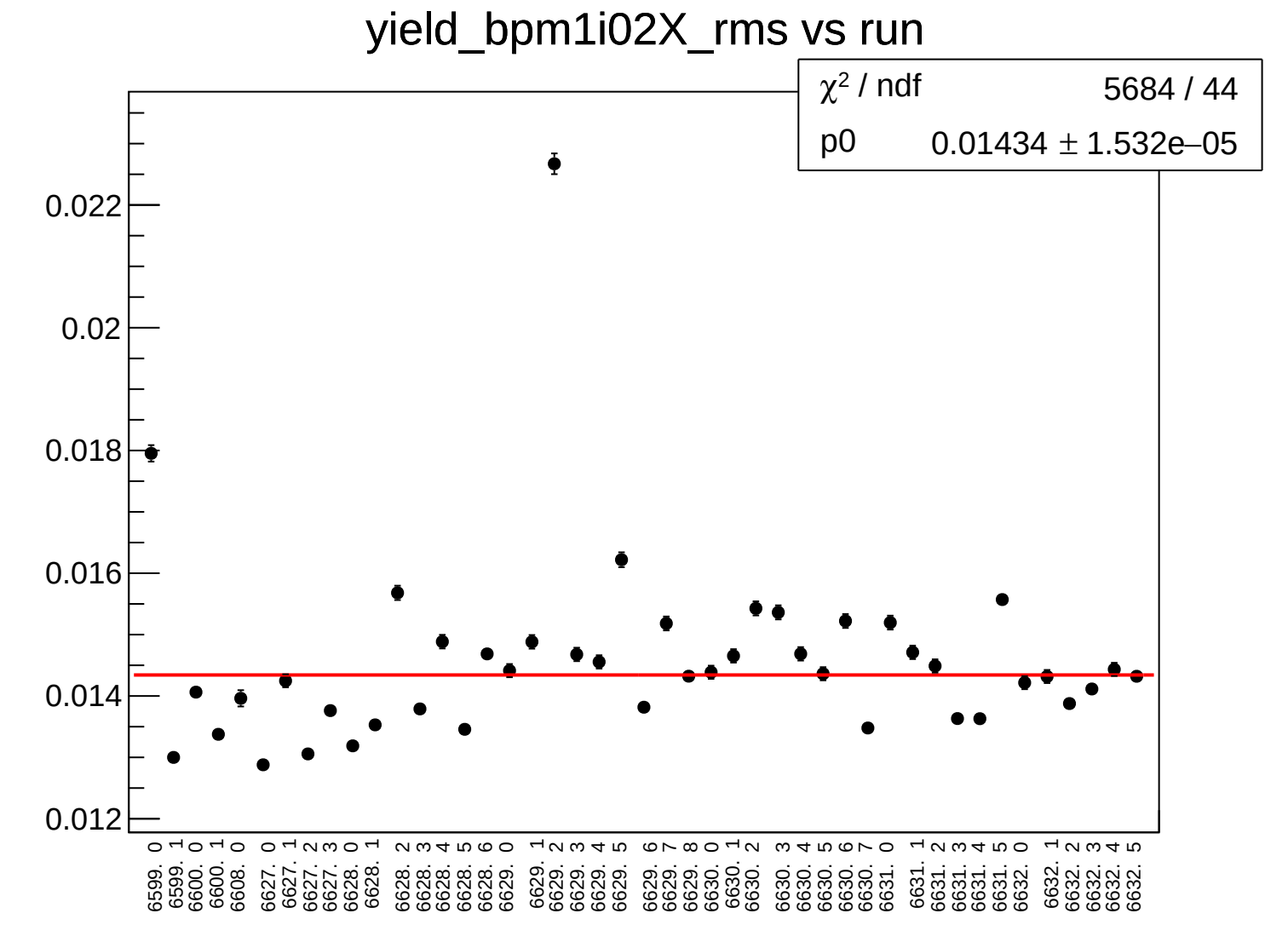
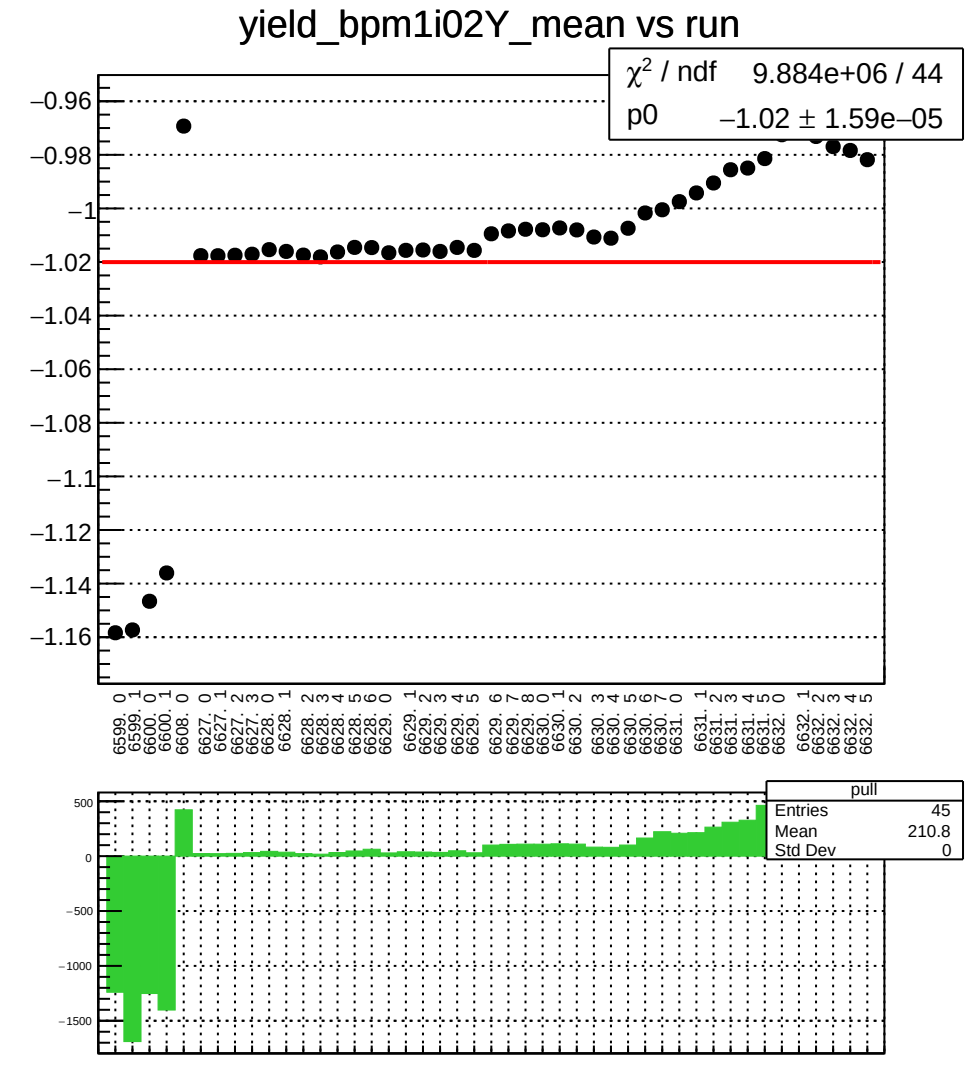
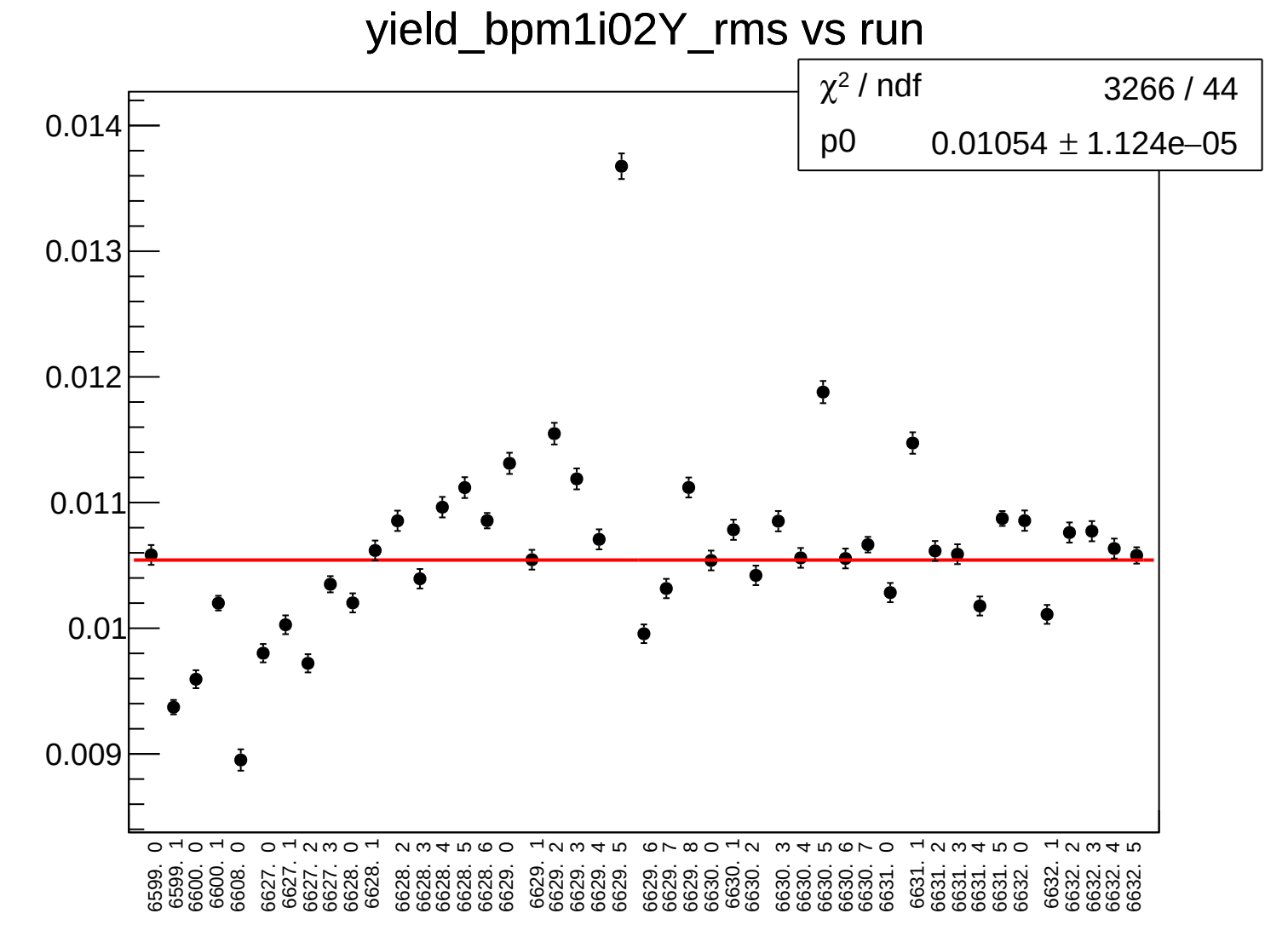
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 236.8
Std Dev 0
150
100
50
0
−50
−100


pull1D
Entries 45
Mean 2.426
Std Dev 0
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 5684 / 44
p0 0.01434 ± 1.532e−05
0.022
0.02
0.018
0.016
0.014
0.012
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


yield_bpm1i02Y_mean vs run
χ² / ndf 9.884e+06 / 44
p0 −1.02 ± 1.59e−05
−0.96
−0.98
−1
−1.02
−1.04
−1.06
−1.08
−1.1
−1.12
−1.14
−1.16
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 210.8
Std Dev 0
500
0
−500
−1000
−1500
pull1D
Entries 45
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_bpm1i02Y_rms vs run
χ² / ndf 3266 / 44
p0 0.01054 ± 1.124e−05
0.014
0.013
0.012
0.011
0.01
0.009
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
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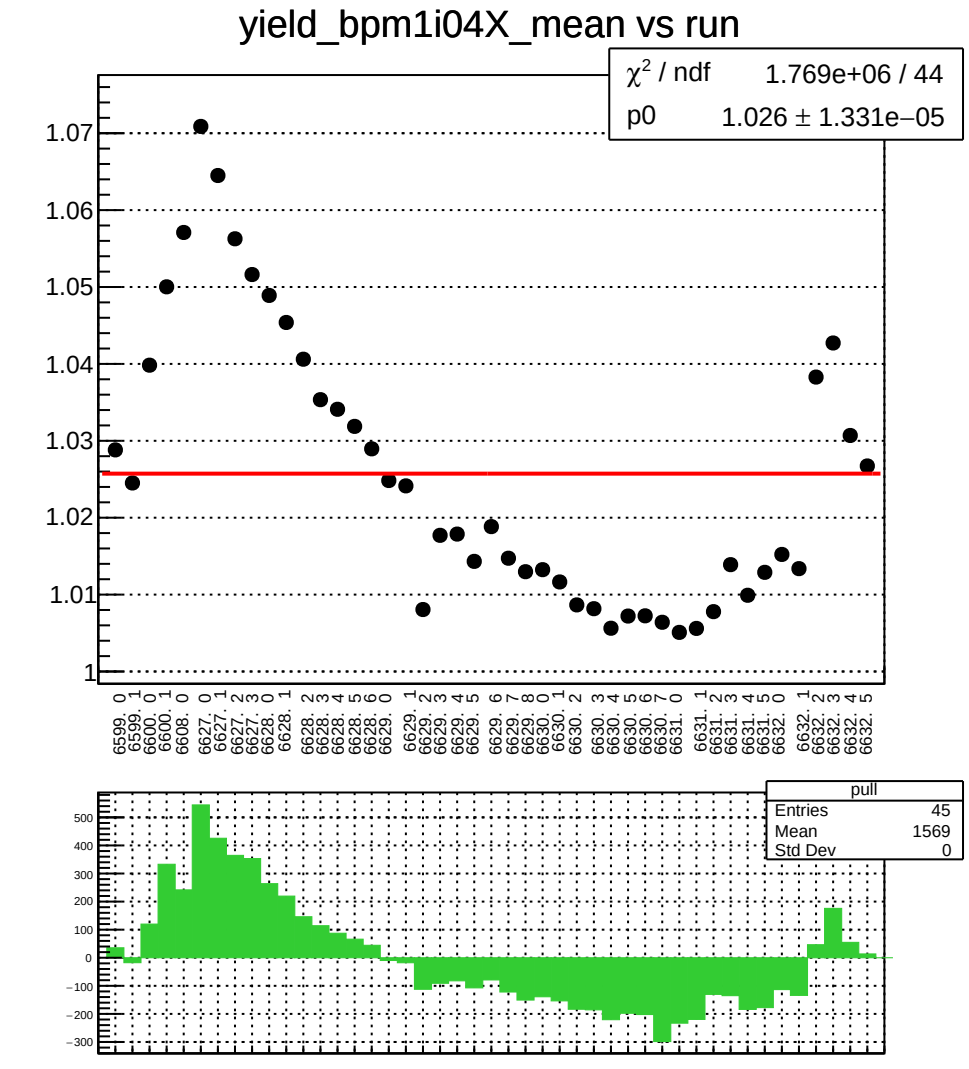
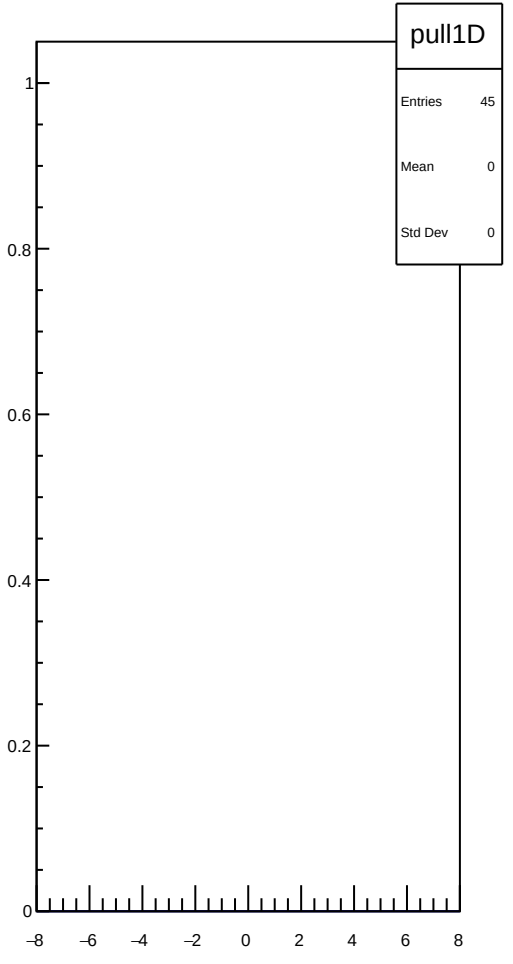
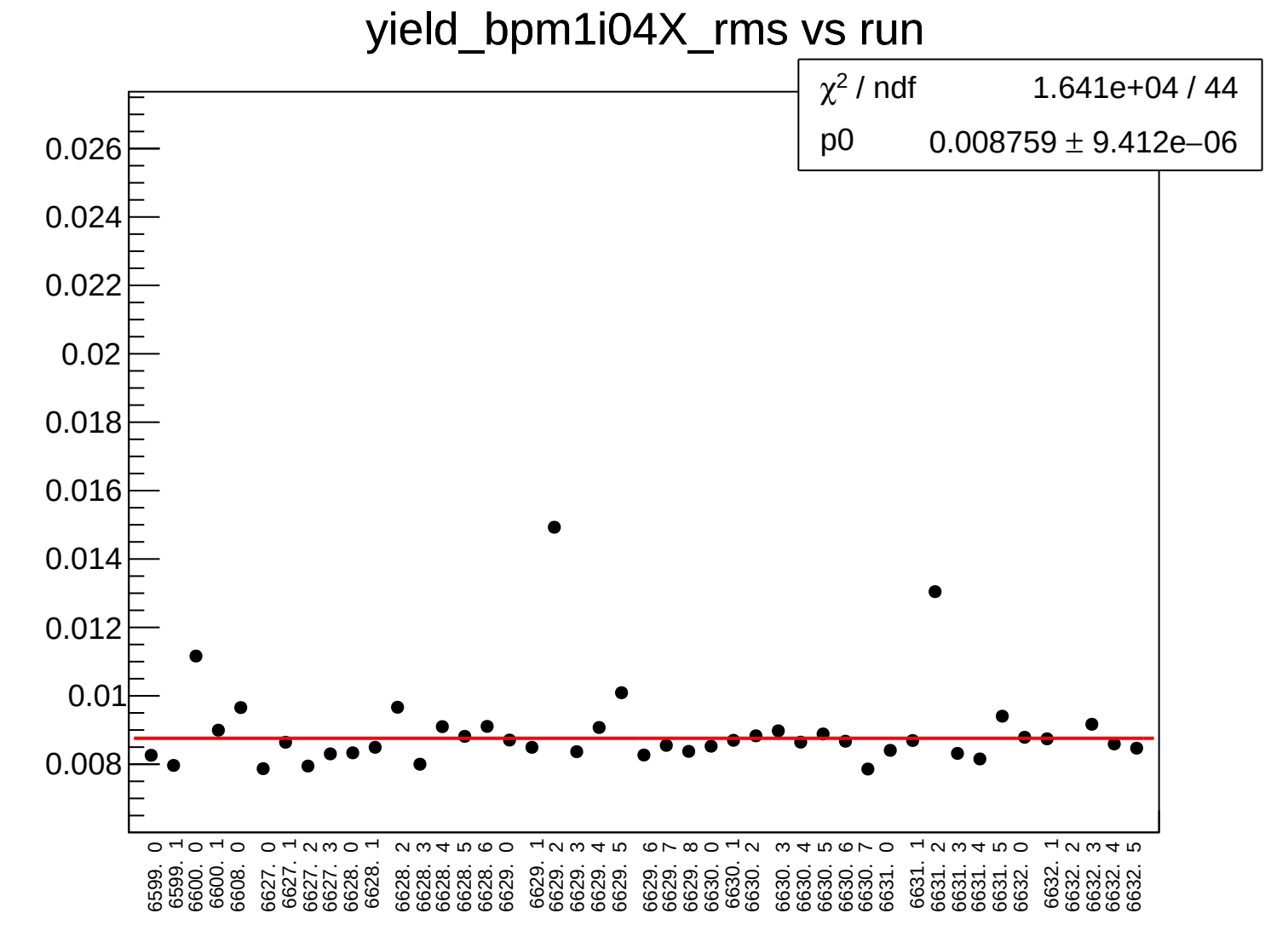
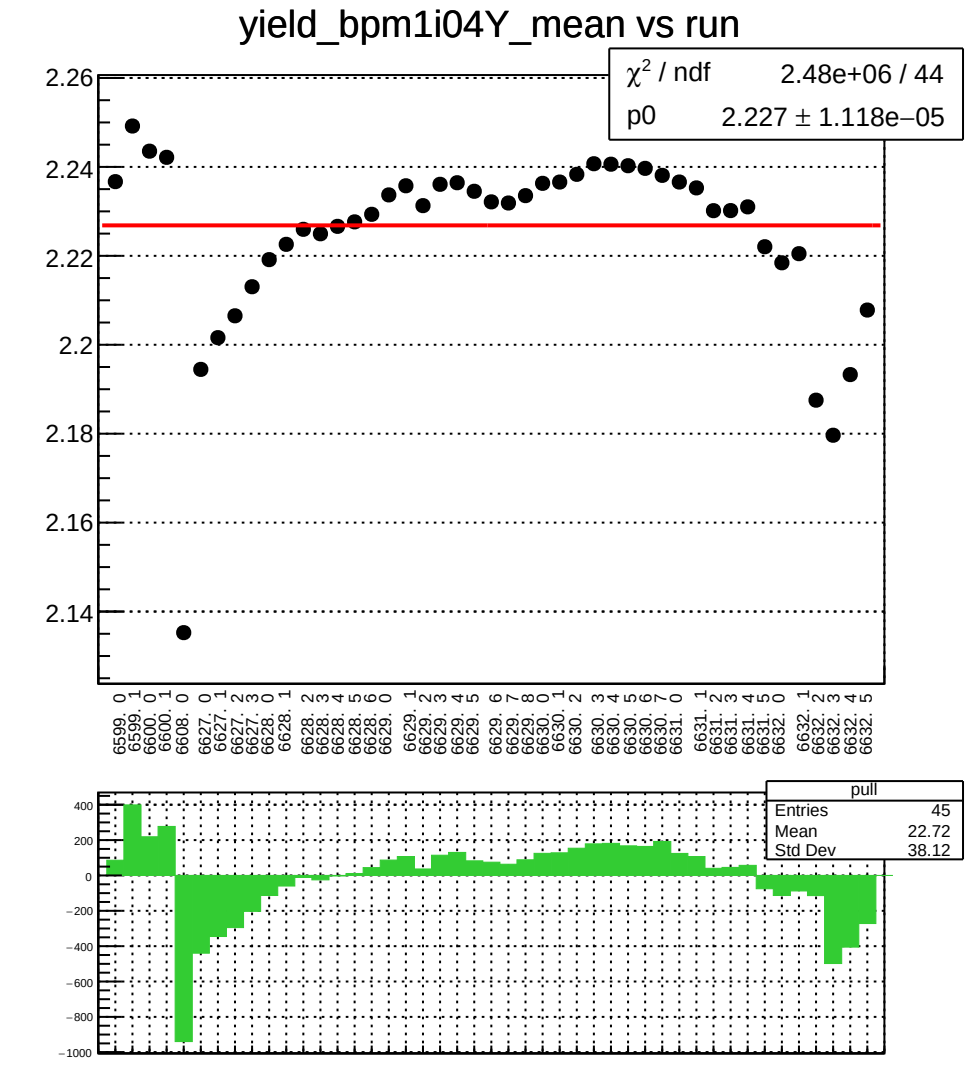
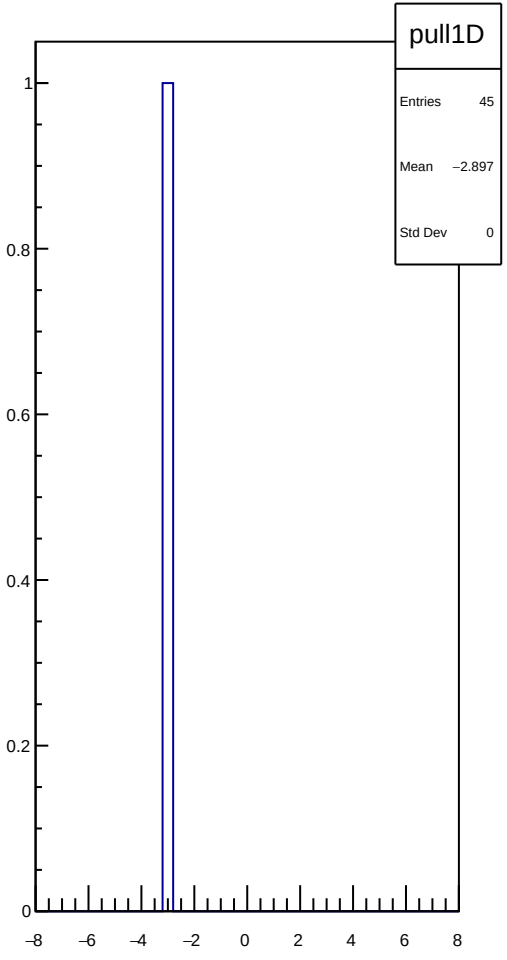
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

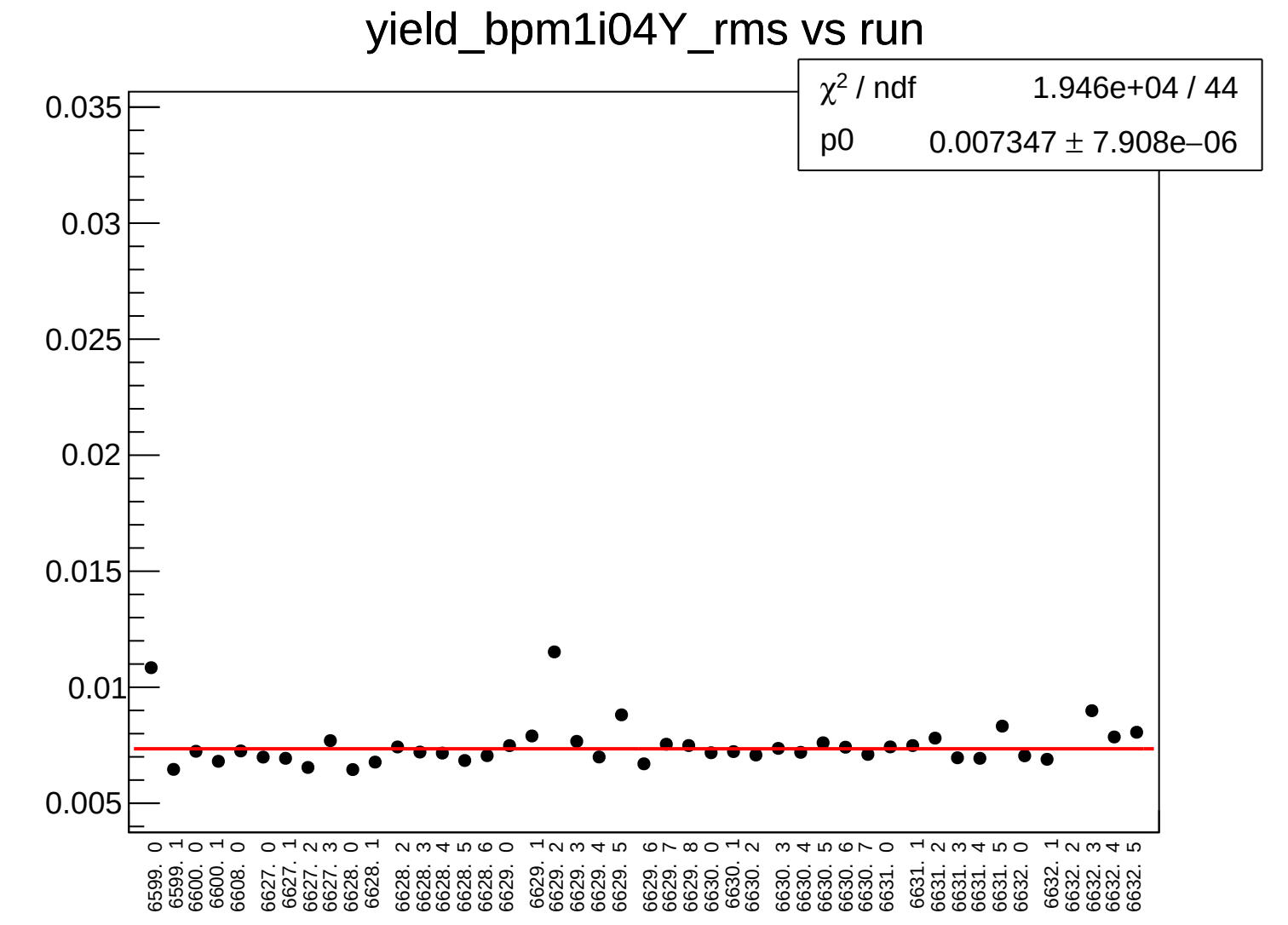

yield_bpm1i04X_mean vs run
χ² / ndf 1.769e+06 / 44
p0 1.026 ± 1.331e−05
pull
Entries 45
Mean 1569
Std Dev 0

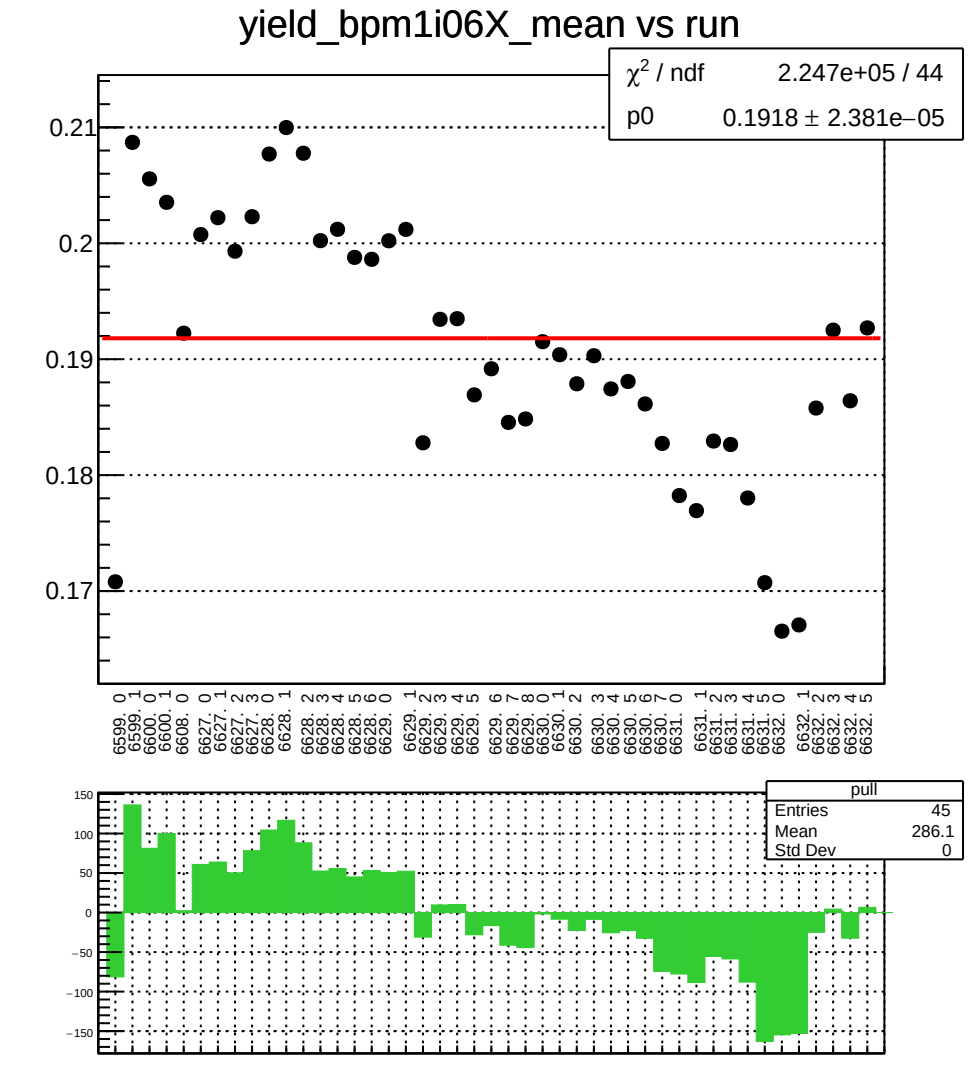

pull1D
Entries 45
Mean 0
Std Dev 0

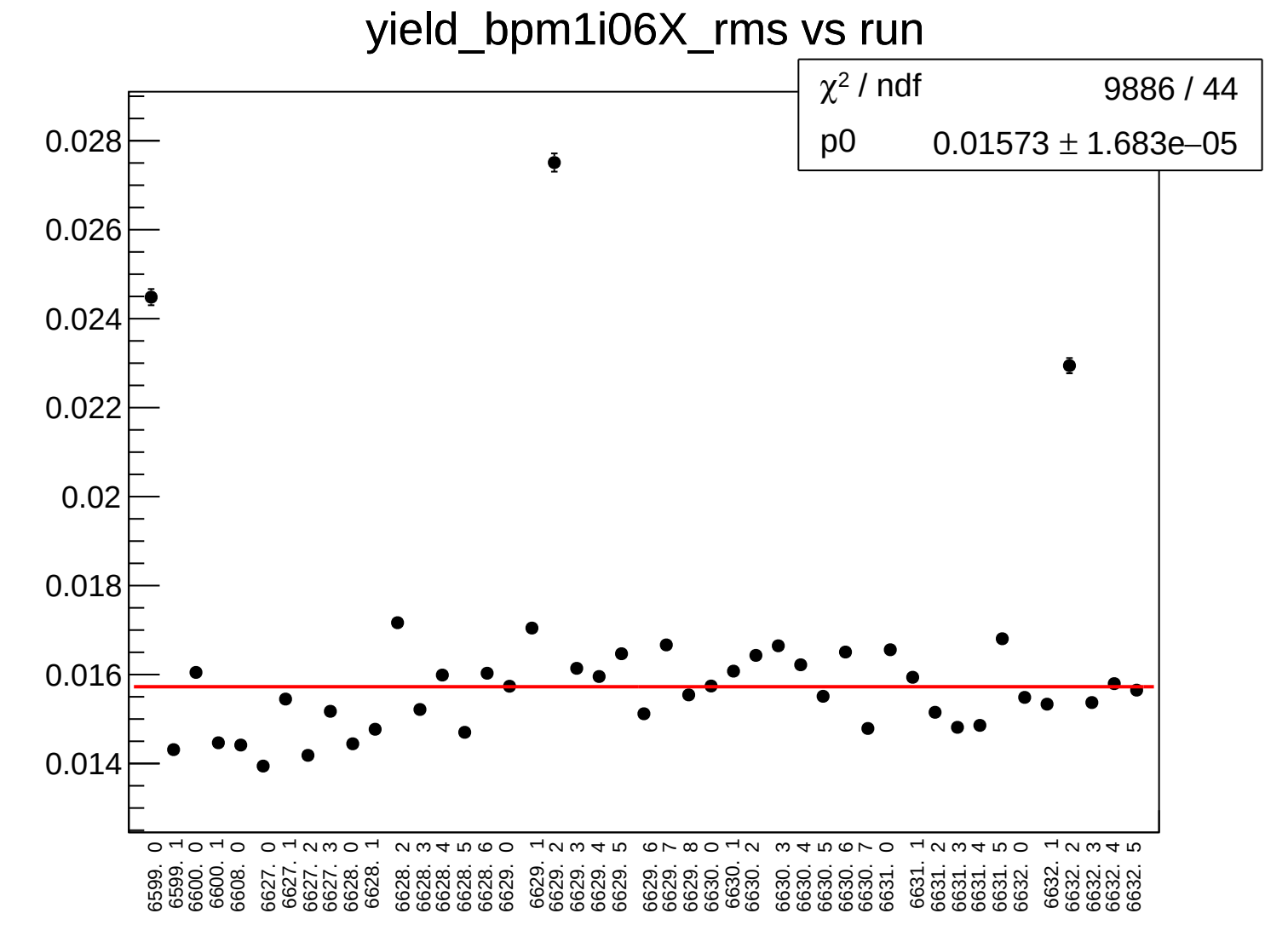

yield_bpm1i04X_rms vs run
χ² / ndf 1.641e+04 / 44
p0 0.008759 ± 9.412e−06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

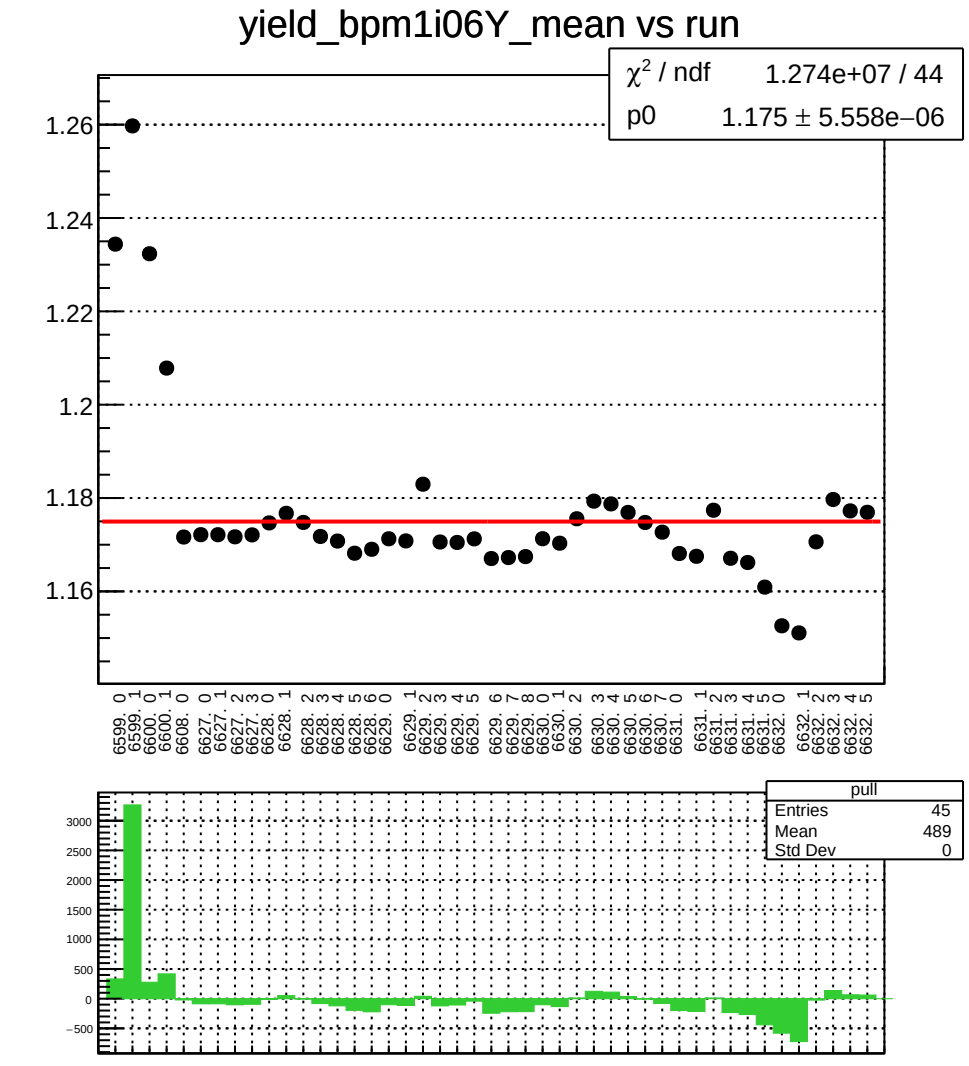

yield_bpm1i04Y_mean vs run
χ² / ndf 2.48e+06 / 44
p0 2.227 ± 1.118e−05
2.26
2.24
2.22
2.2
2.18
2.16
2.14
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 22.72
Std Dev 38.12
400
200
0
−200
−400
−600
−800
−1000

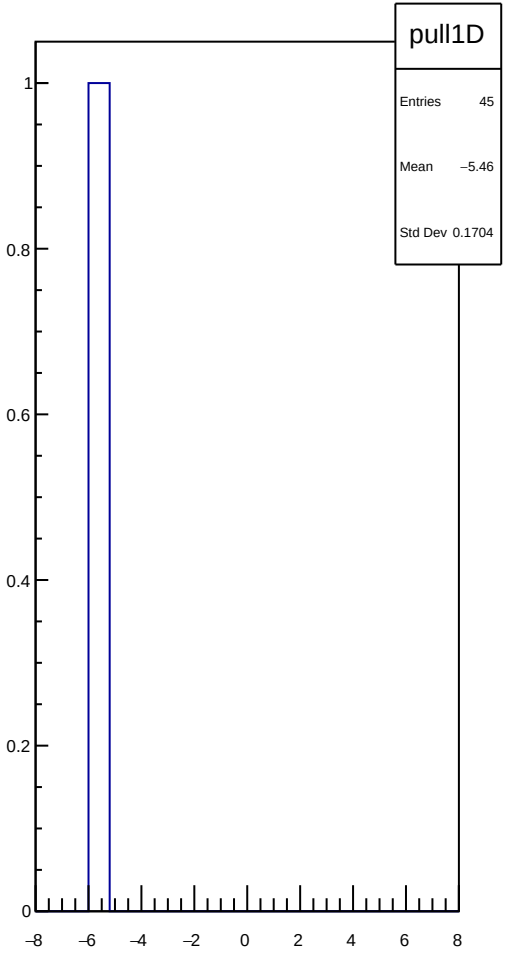

pull1D
Entries 45
Mean −2.897
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

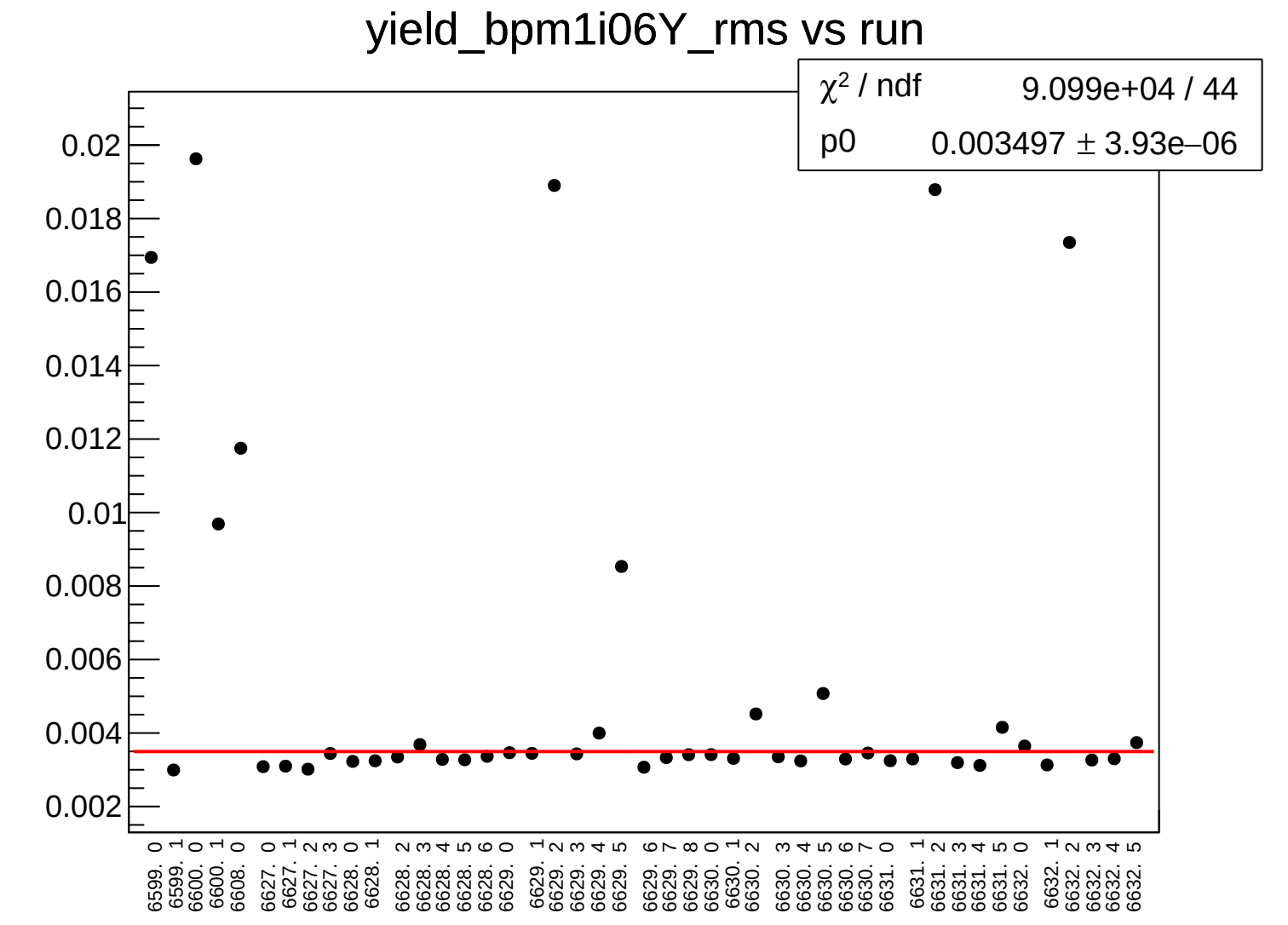

yield_bpm1i04Y_rms vs run
χ² / ndf 1.946e+04 / 44
p0 0.007347 ± 7.908e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

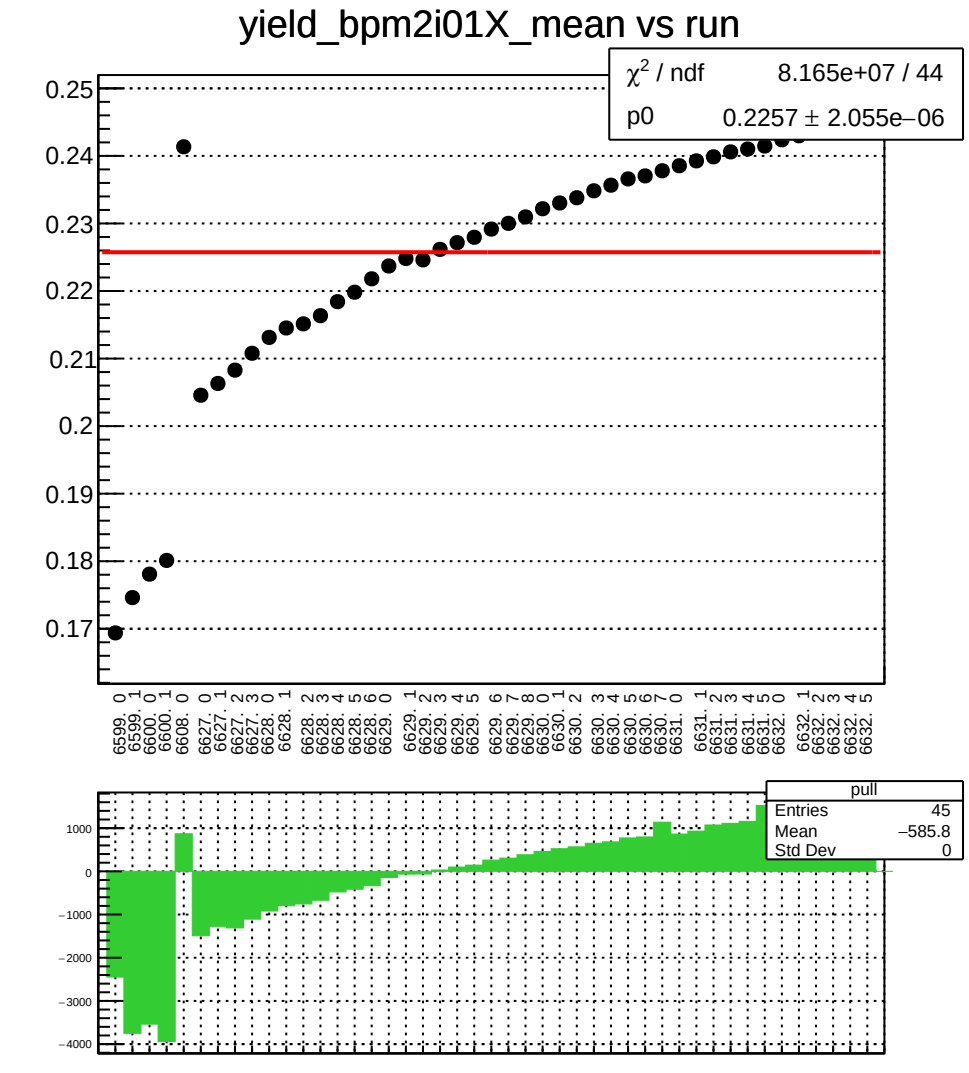

yield_bpm1i06X_mean vs run
χ² / ndf 2.247e+05 / 44
p0 0.1918 ± 2.381e−05
0.21
0.2
0.19
0.18
0.17
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 286.1
Std Dev 0
150
100
50
0
−50
−100
−150
pull1D
Entries 45
Mean 2.858
Std Dev 3.077
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 9886 / 44
p0 0.01573 ± 1.683e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


yield_bpm1i06Y_mean vs run
χ² / ndf 1.274e+07 / 44
p0 1.175 ± 5.558e−06
1.26
1.24
1.22
1.2
1.18
1.16
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 489
Std Dev 0
3000
2500
2000
1500
1000
500
0
−500


pull1D
Entries 45
Mean −5.46
Std Dev 0.1704
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 9.099e+04 / 44
p0 0.003497 ± 3.93e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


yield_bpm2i01X_mean vs run
χ² / ndf 8.165e+07 / 44
p0 0.2257 ± 2.055e−06
0.25
0.24
0.23
0.22
0.21
0.2
0.19
0.18
0.17
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6628. 6
6629. 0
6629. 1
6629. 2
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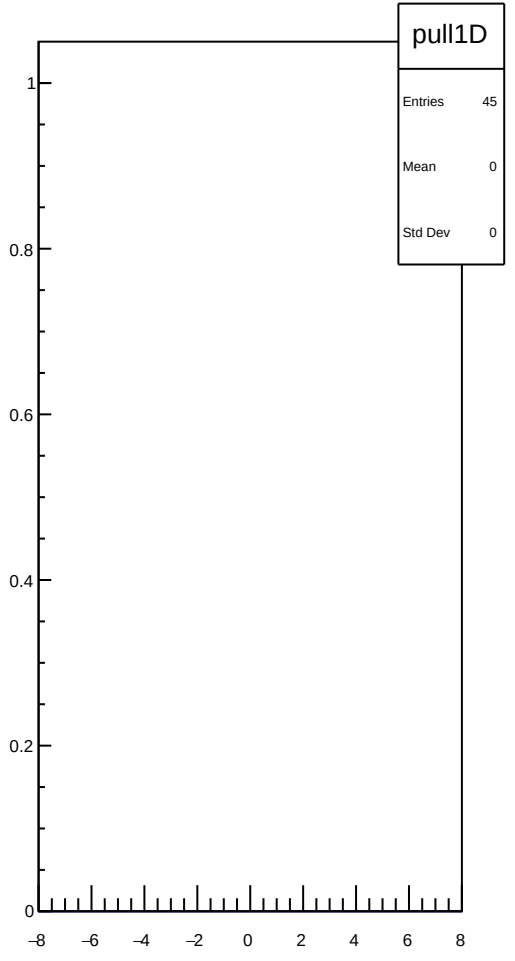
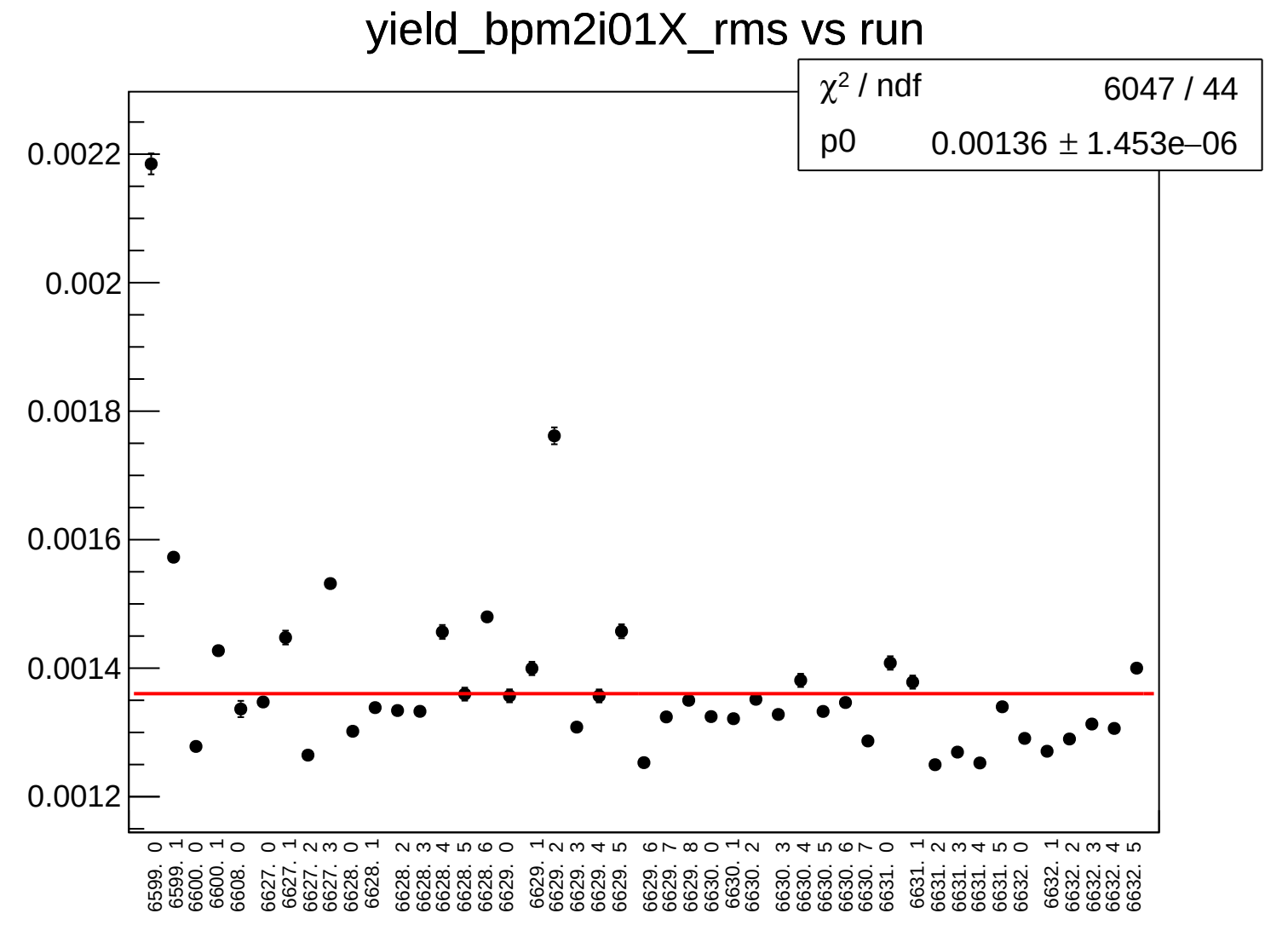
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −585.8
Std Dev 0
1000
0
−1000
−2000
−3000
−4000


pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm2i01X_rms vs run
χ² / ndf 6047 / 44
p0 0.00136 ± 1.453e–06
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
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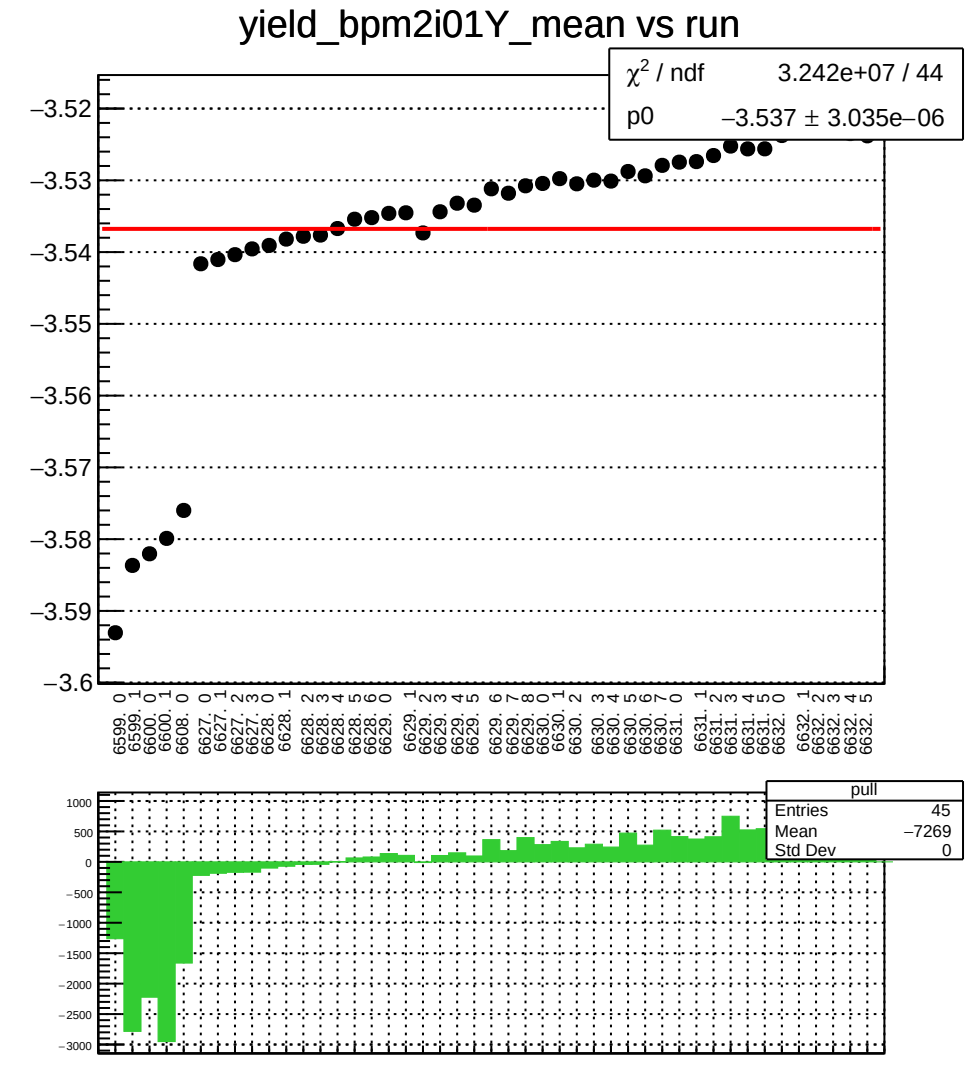
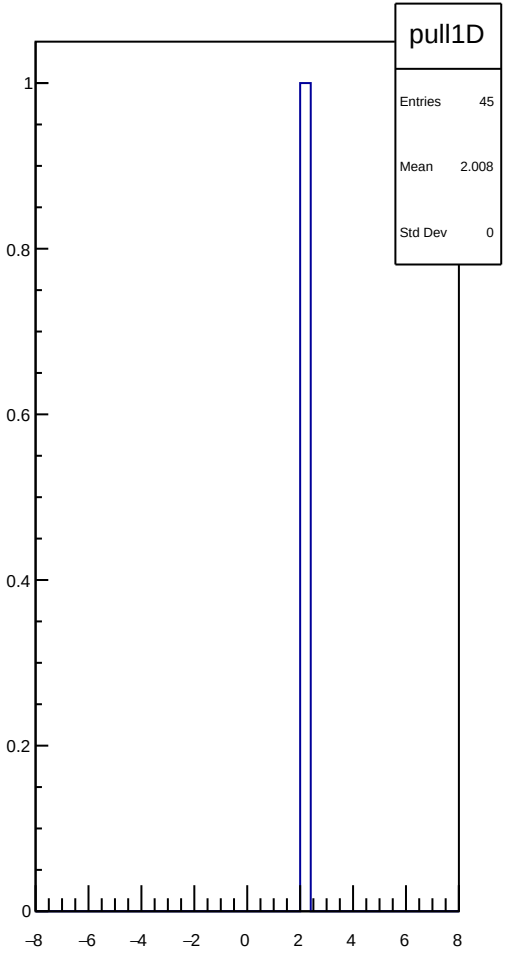
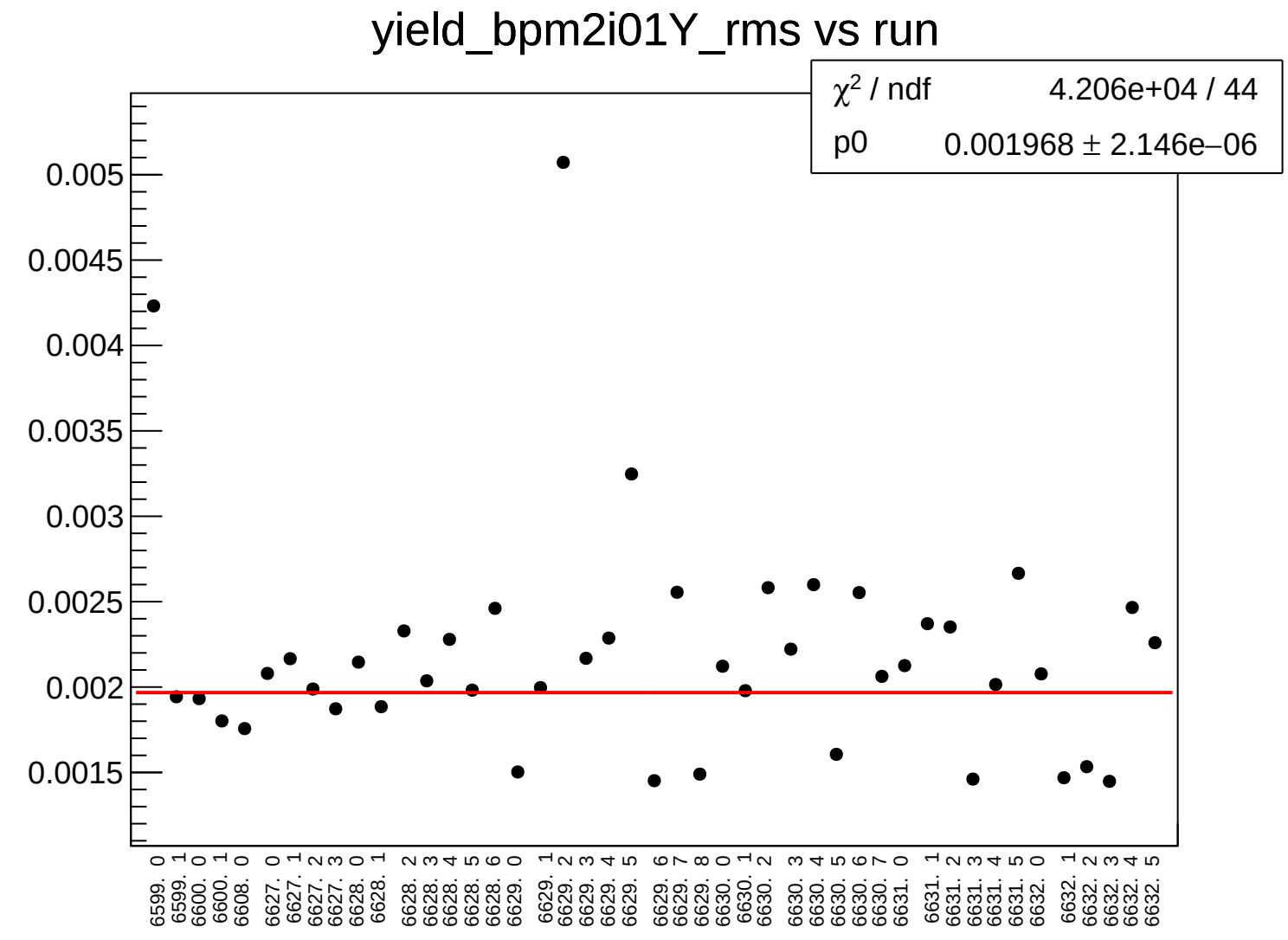
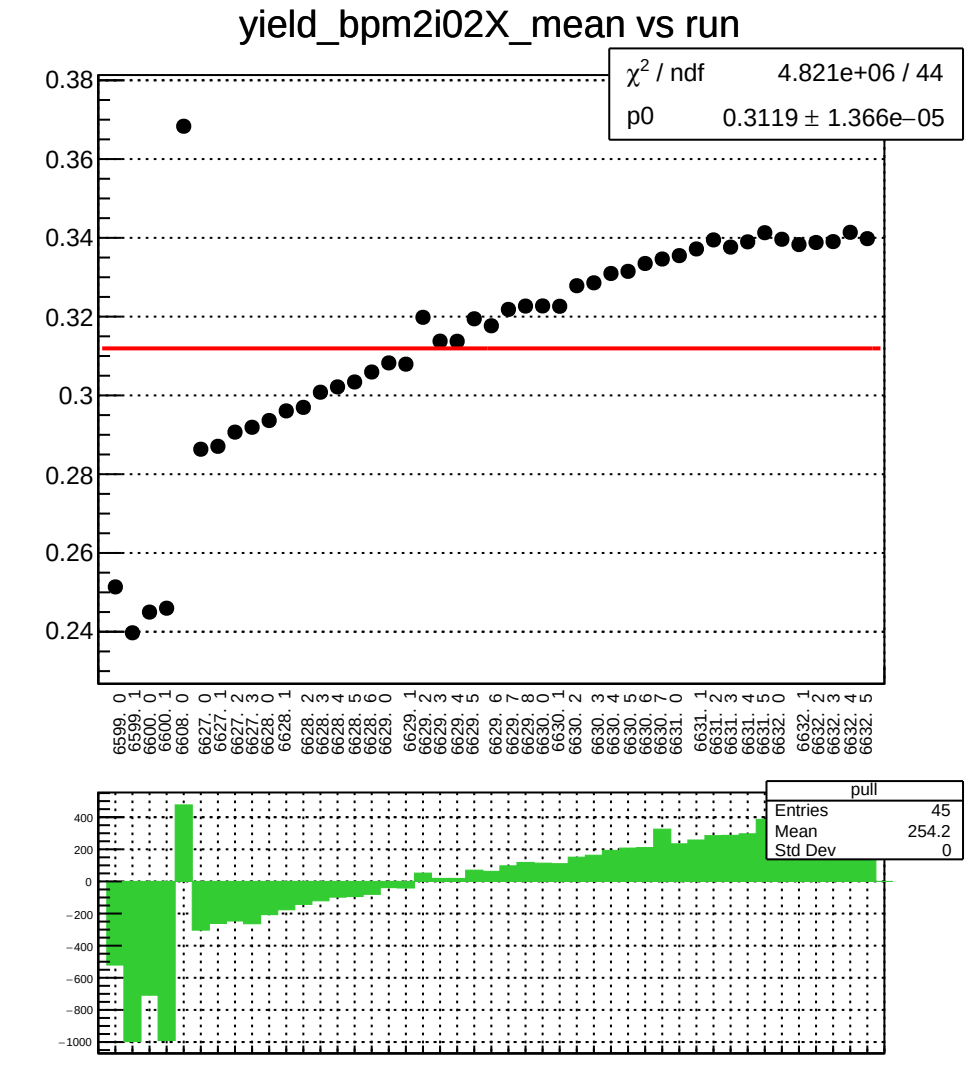
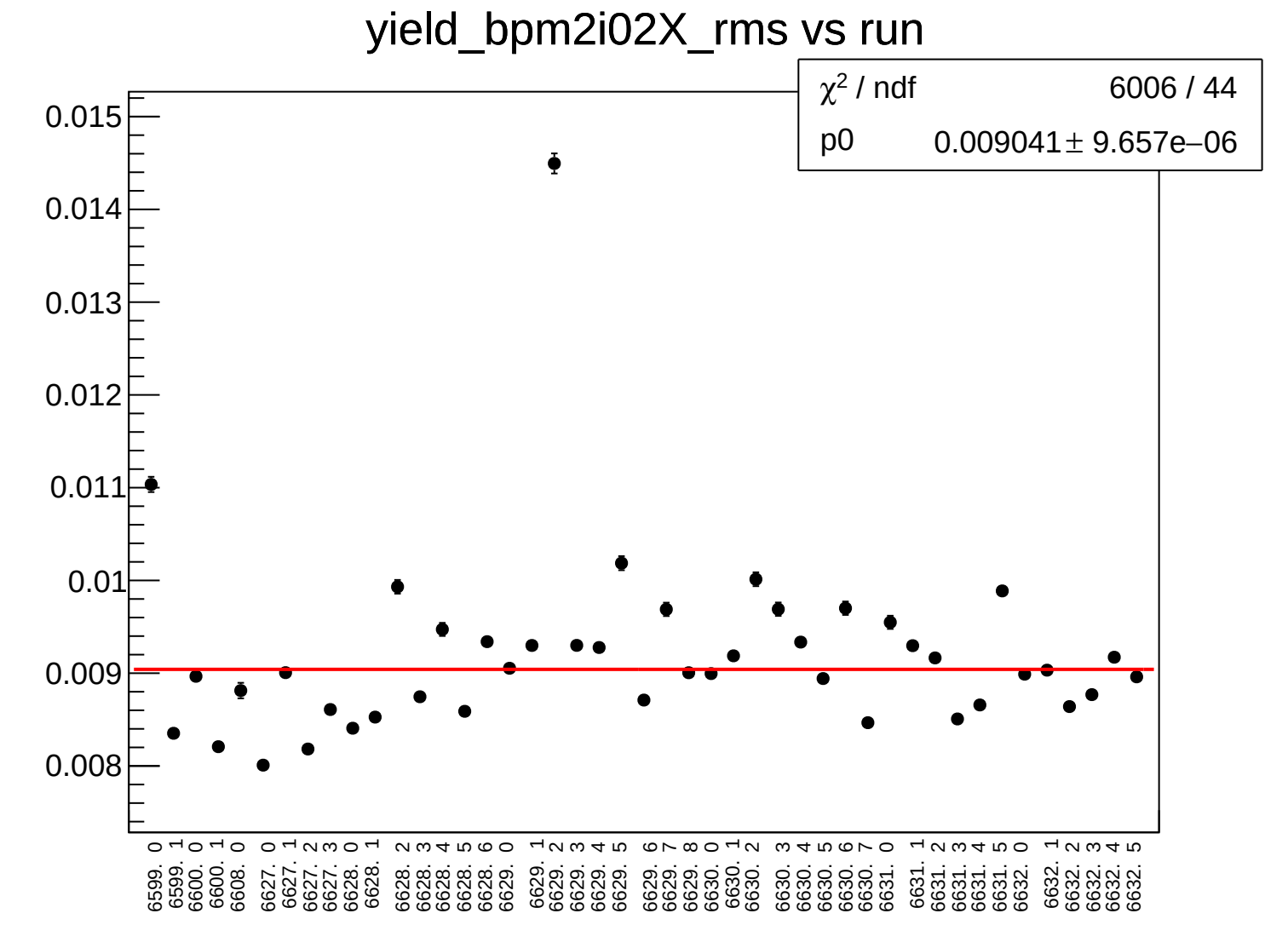
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

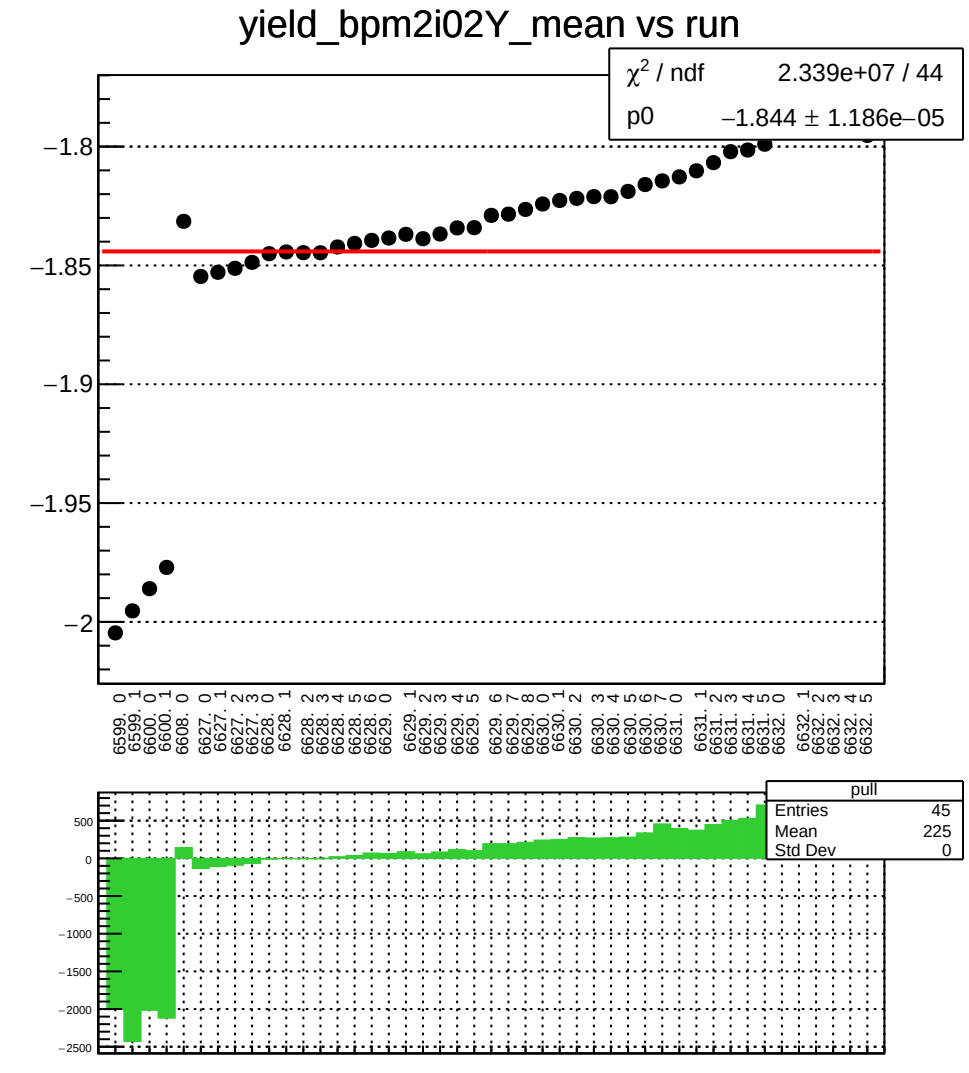

yield_bpm2i01Y_mean vs run
χ² / ndf 3.242e+07 / 44
p0 −3.537 ± 3.035e−06
−3.52
−3.53
−3.54
−3.55
−3.56
−3.57
−3.58
−3.59
−3.6
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −7269
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000

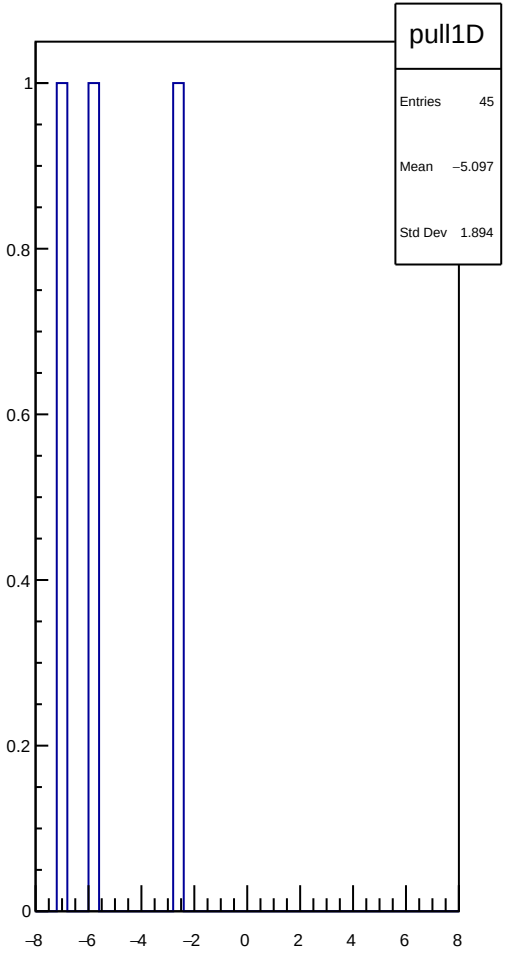

pull1D
Entries 45
Mean 2.008
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

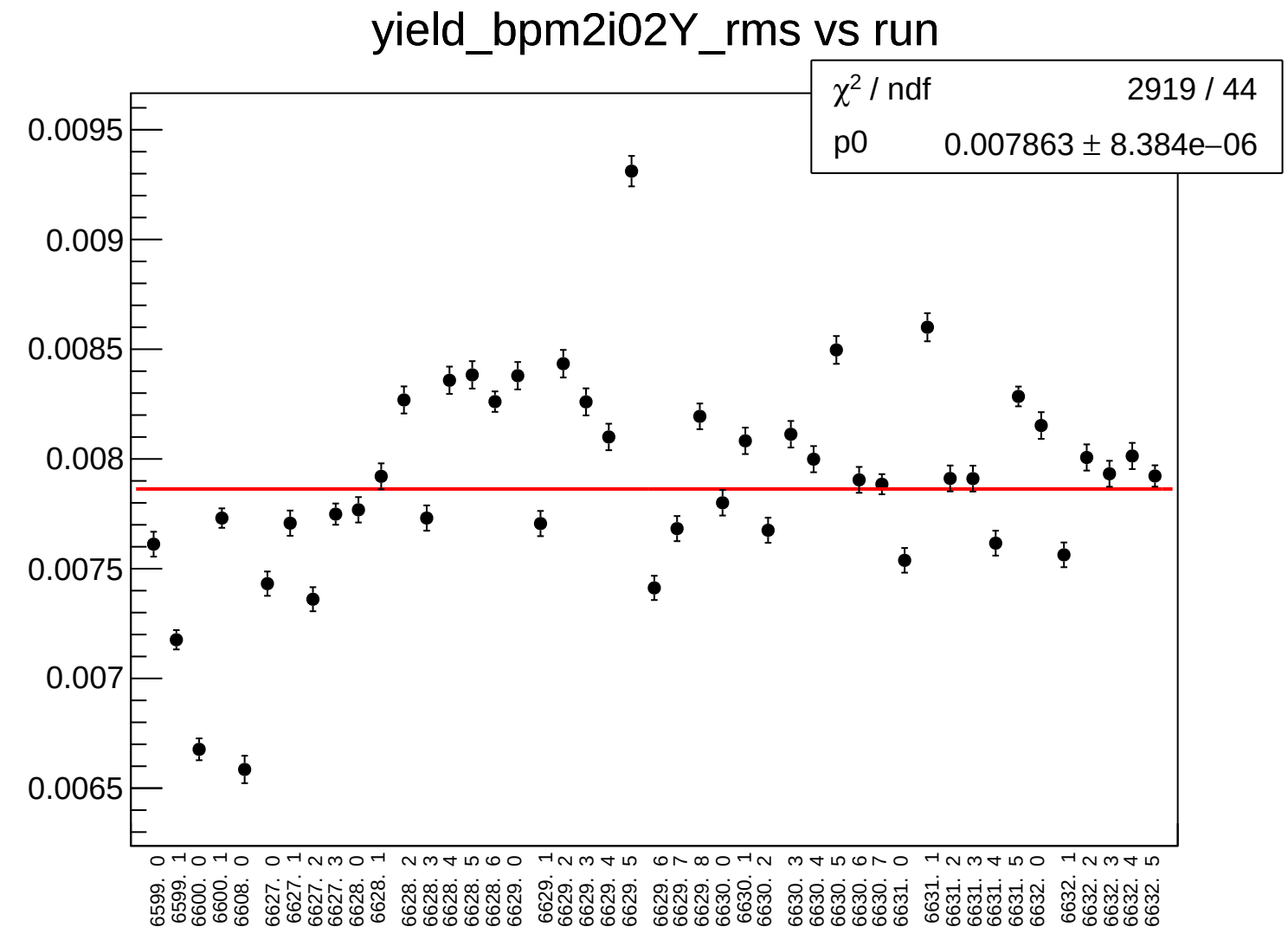

yield_bpm2i01Y_rms vs run
χ² / ndf 4.206e+04 / 44
p0 0.001968 ± 2.146e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

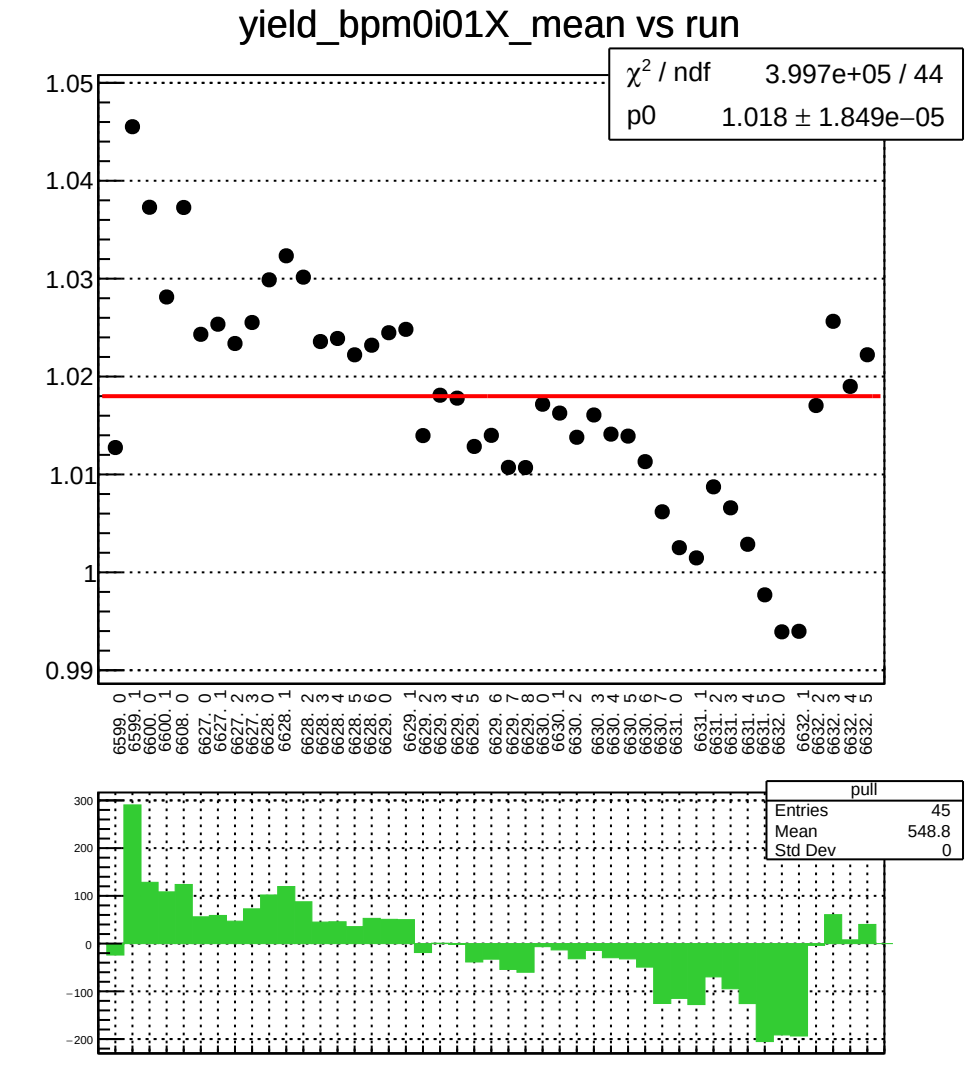

yield_bpm2i02X_mean vs run
χ² / ndf 4.821e+06 / 44
p0 0.3119 ± 1.366e−05
0.38
0.36
0.34
0.32
0.3
0.28
0.26
0.24
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 254.2
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

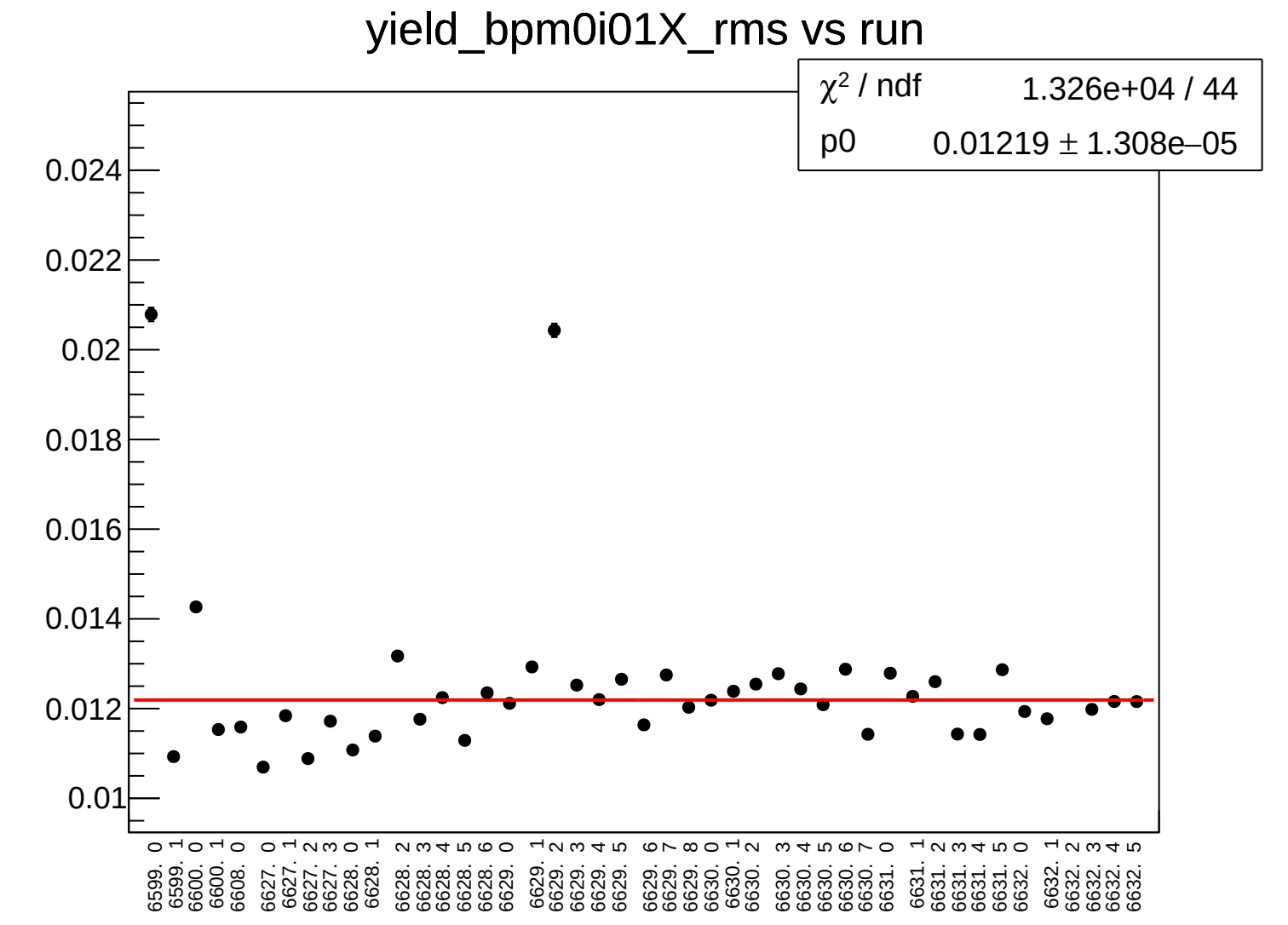

yield_bpm2i02X_rms vs run
χ² / ndf 6006 / 44
p0 0.009041 ± 9.657e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

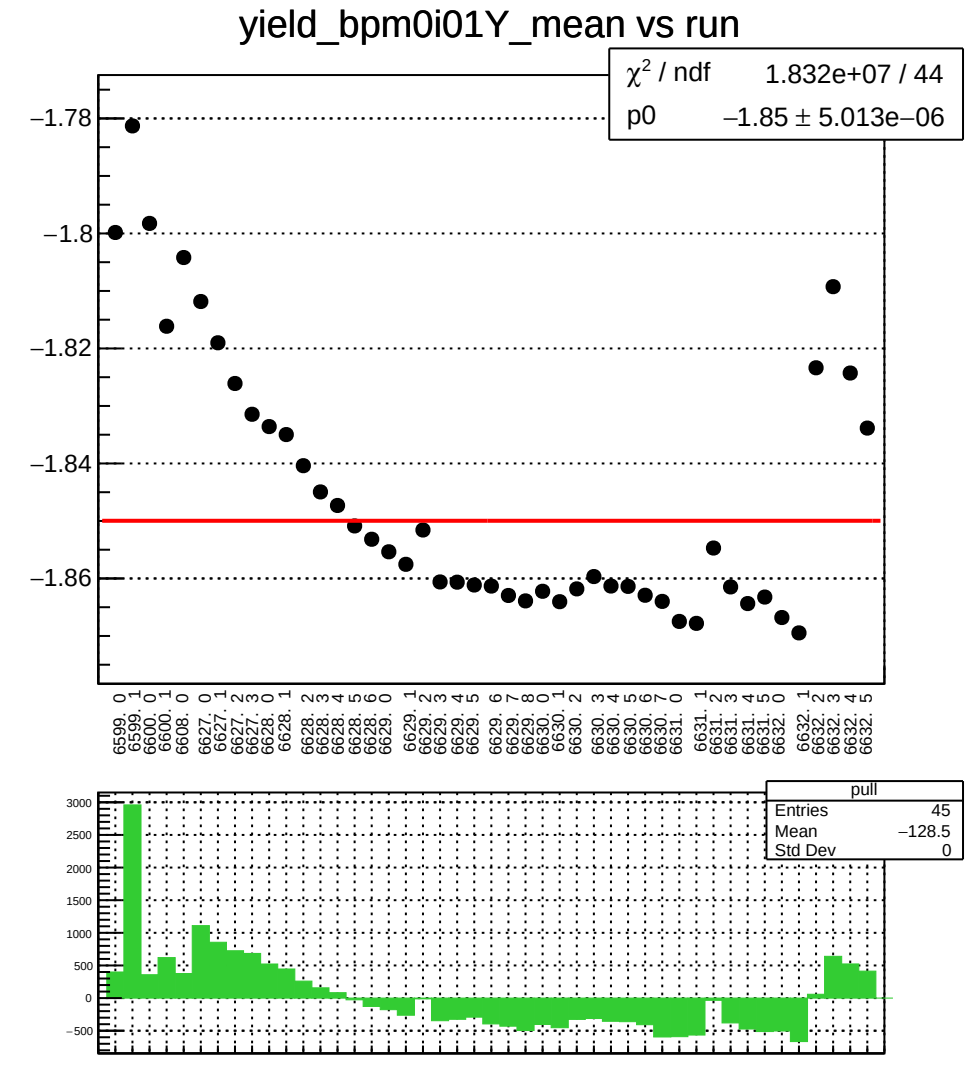

yield_bpm2i02Y_mean vs run
χ² / ndf 2.339e+07 / 44
p0 −1.844 ± 1.186e−05
−1.8
−1.85
−1.9
−1.95
−2
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 225
Std Dev 0
500
0
−500
−1000
−1500
−2000
−2500

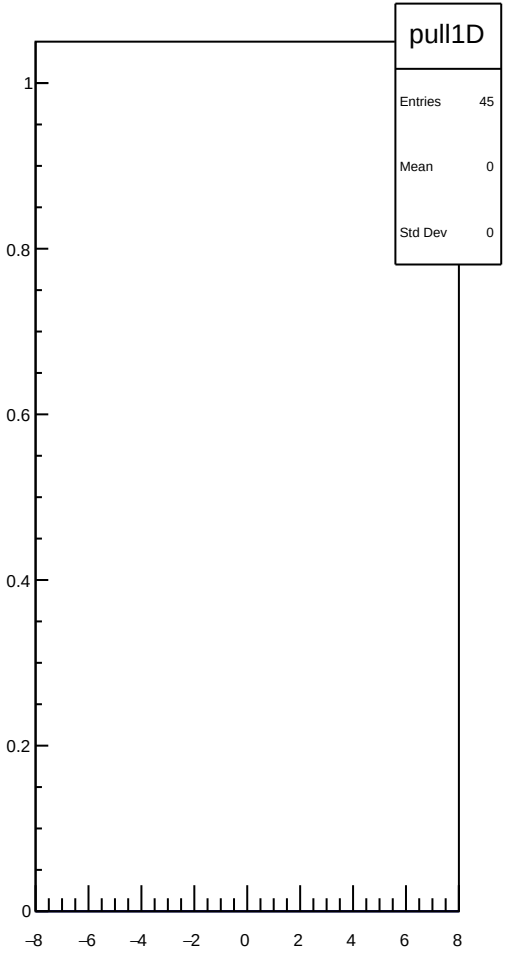

pull1D
Entries 45
Mean −5.097
Std Dev 1.894
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

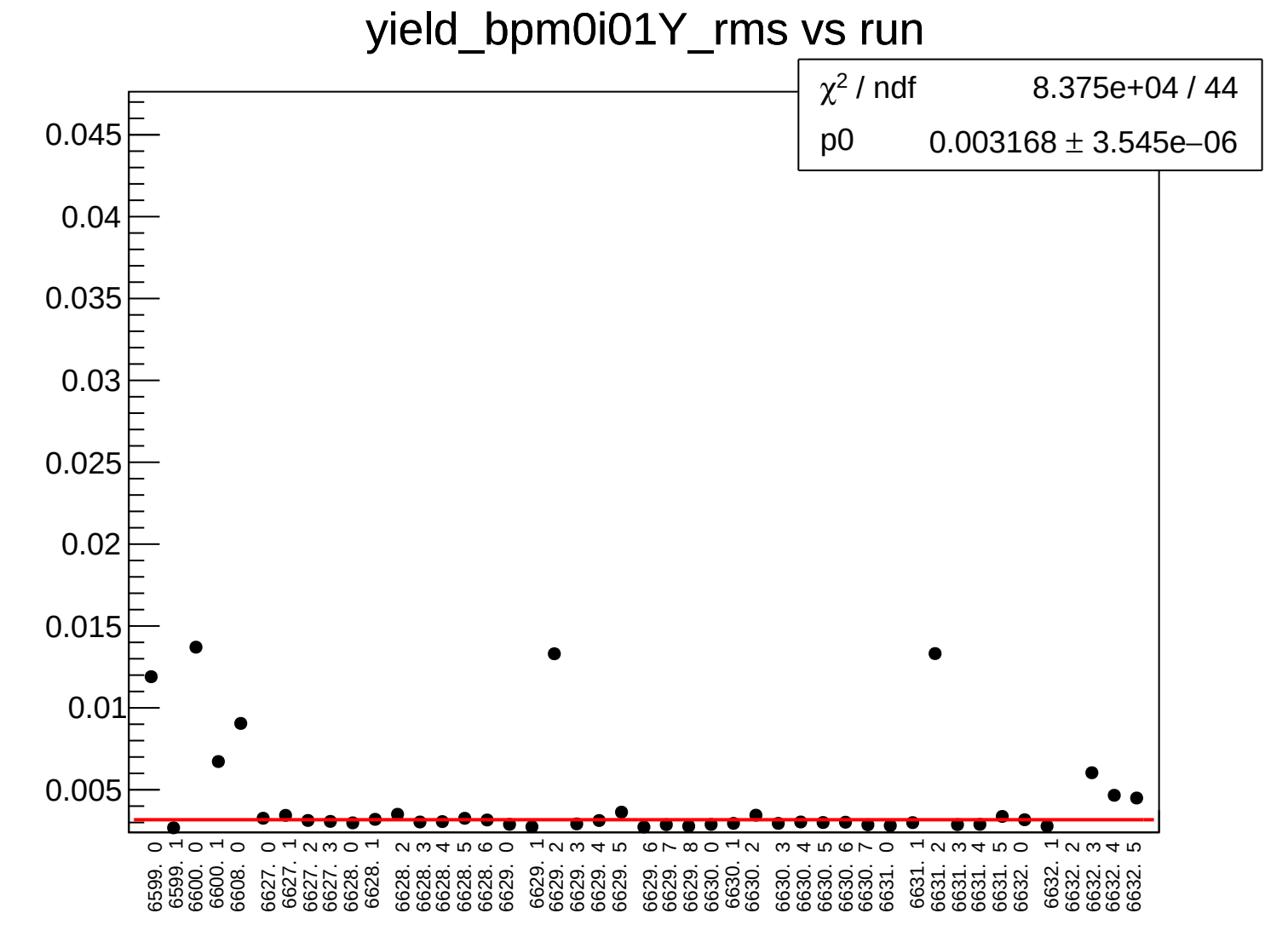

yield_bpm2i02Y_rms vs run
χ² / ndf 2919 / 44
p0 0.007863 ± 8.384e−06
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

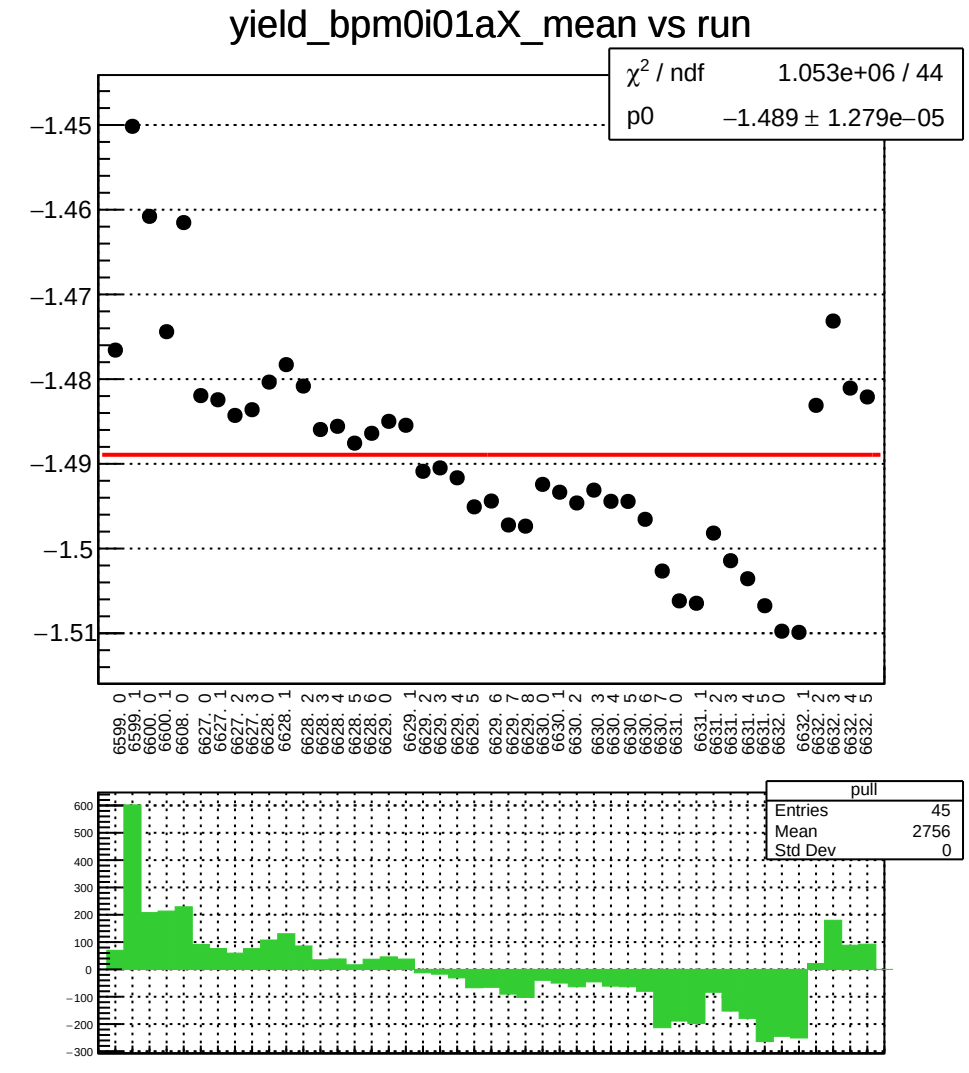

yield_bpm0i01X_mean vs run
χ² / ndf 3.997e+05 / 44
p0 1.018 ± 1.849e−05
1.05
1.04
1.03
1.02
1.01
1
0.99
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 548.8
Std Dev 0
300
200
100
0
−100
−200
pull1D
Entries 45
Mean −0.6322
Std Dev 4.834
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

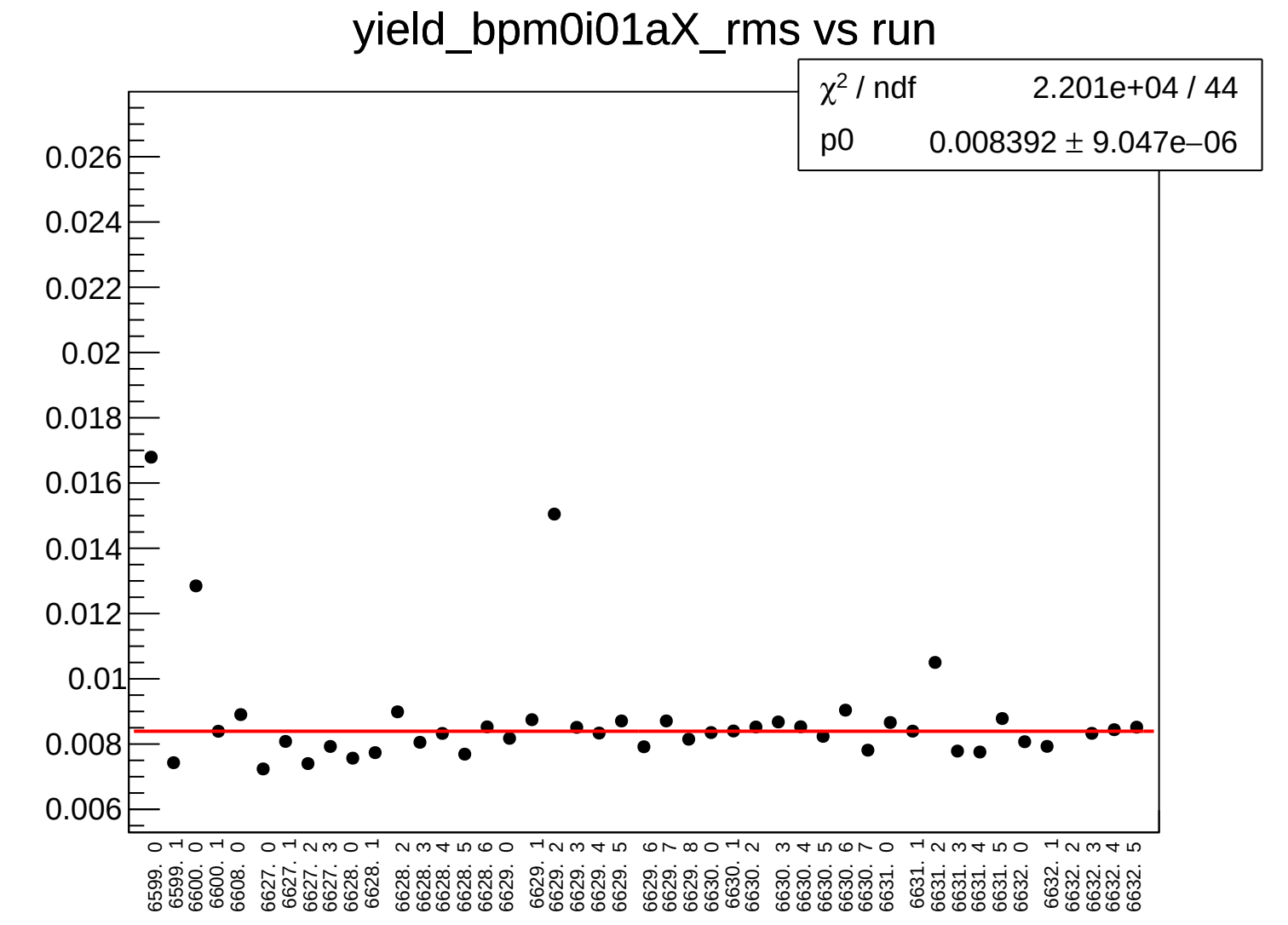

yield_bpm0i01X_rms vs run
χ² / ndf 1.326e+04 / 44
p0 0.01219 ± 1.308e–05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

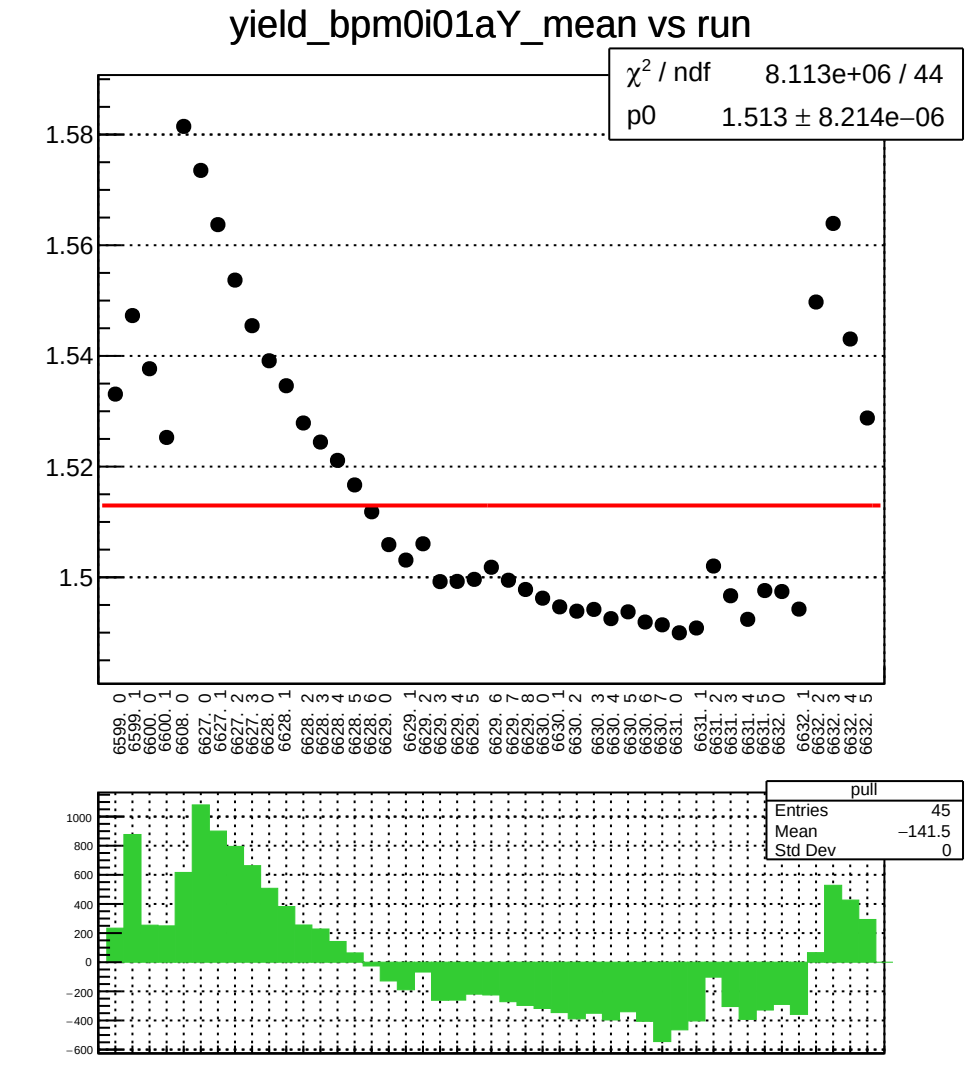

yield_bpm0i01Y_mean vs run
χ² / ndf 1.832e+07 / 44
p0 −1.85 ± 5.013e−06
−1.78
−1.8
−1.82
−1.84
−1.86
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −128.5
Std Dev 0
3000
2500
2000
1500
1000
500
0
−500

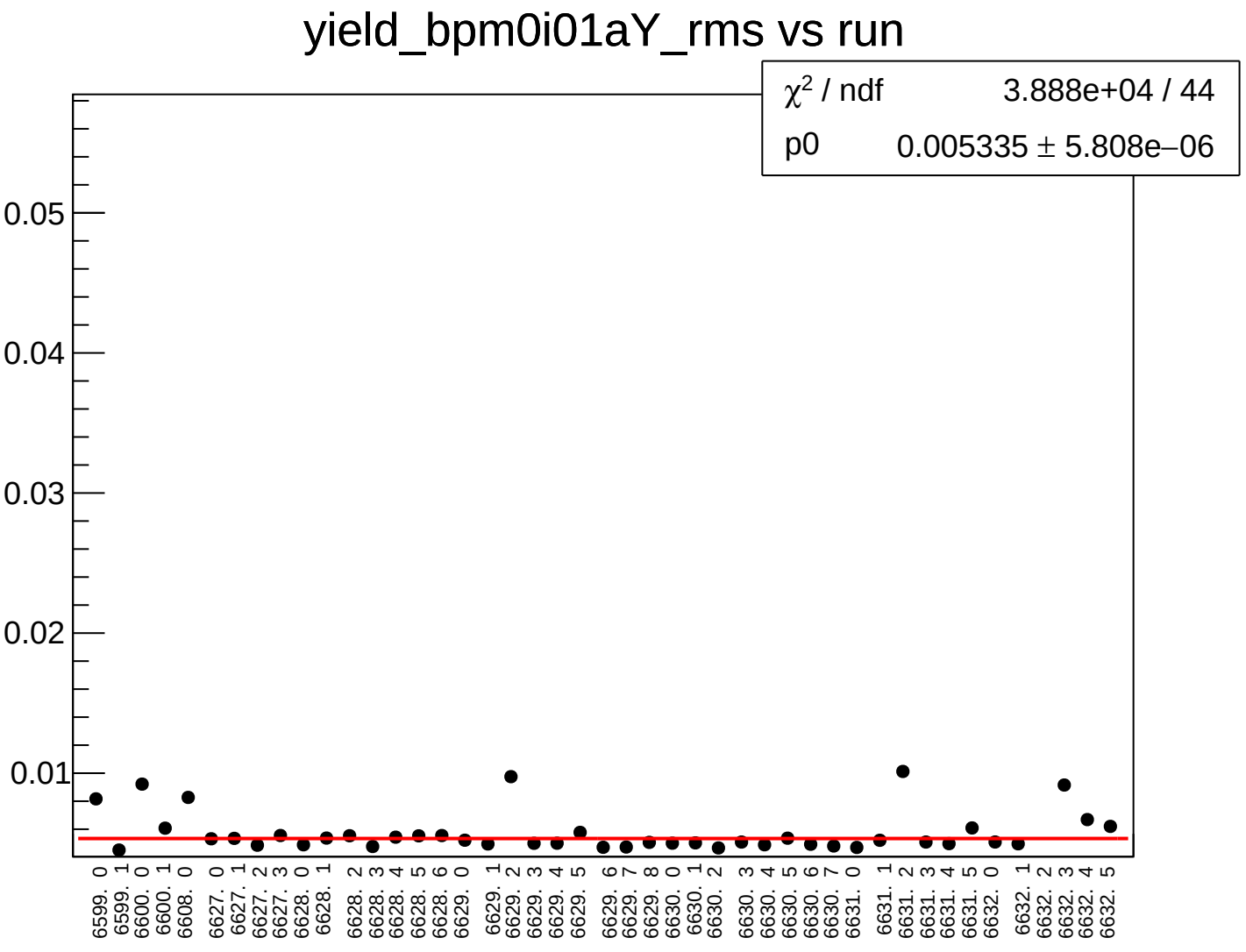

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

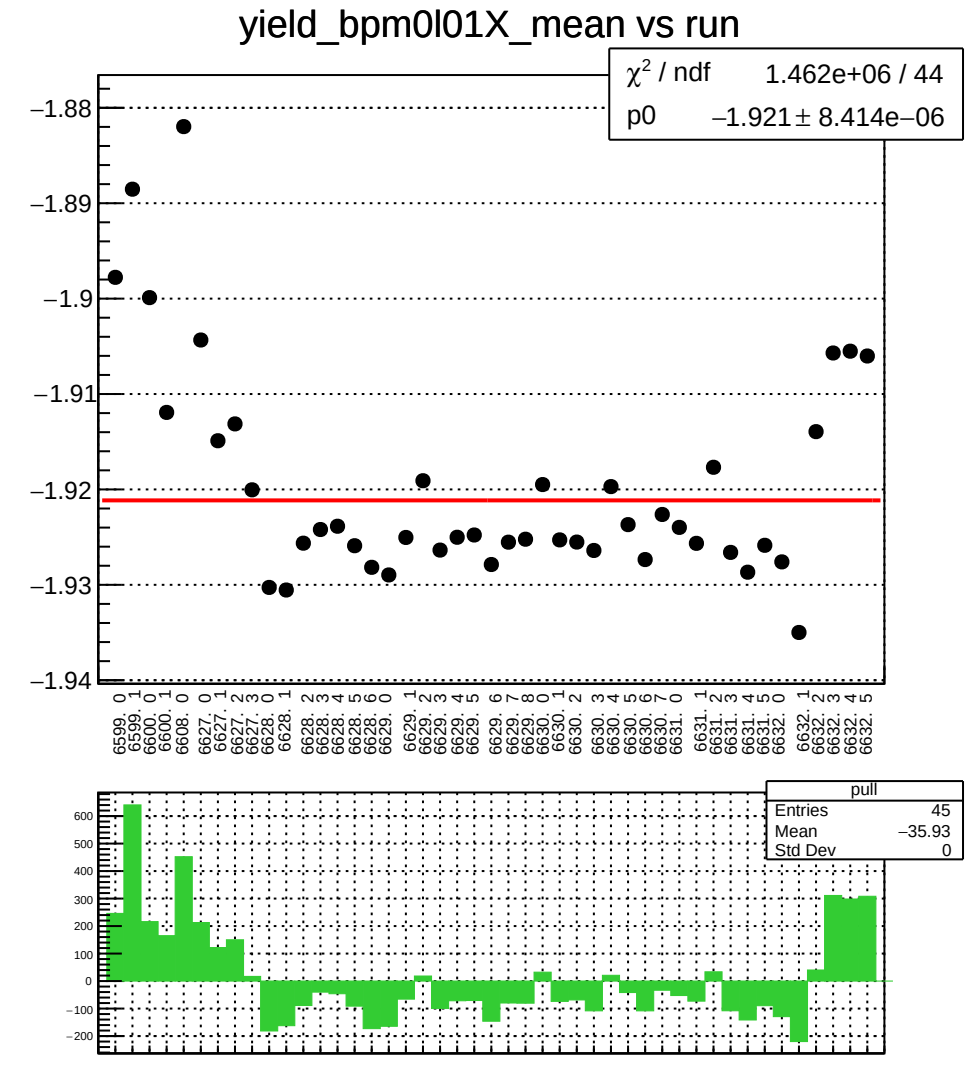

yield_bpm0i01Y_rms vs run
χ² / ndf 8.375e+04 / 44
p0 0.003168 ± 3.545e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

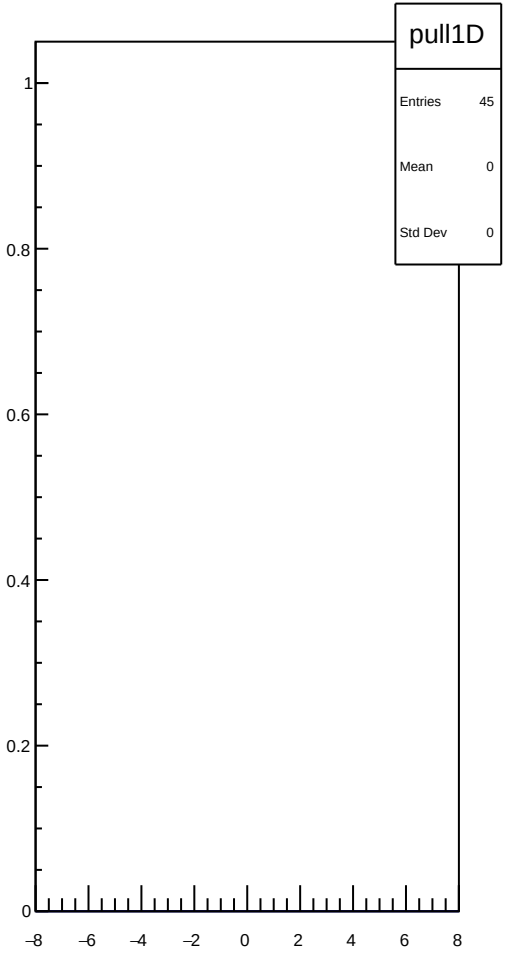

yield_bpm0i01aX_mean vs run
χ² / ndf 1.053e+06 / 44
p0 −1.489 ± 1.279e−05
−1.45
−1.46
−1.47
−1.48
−1.49
−1.5
−1.51
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 2756
Std Dev 0
600
500
400
300
200
100
0
−100
−200
−300
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

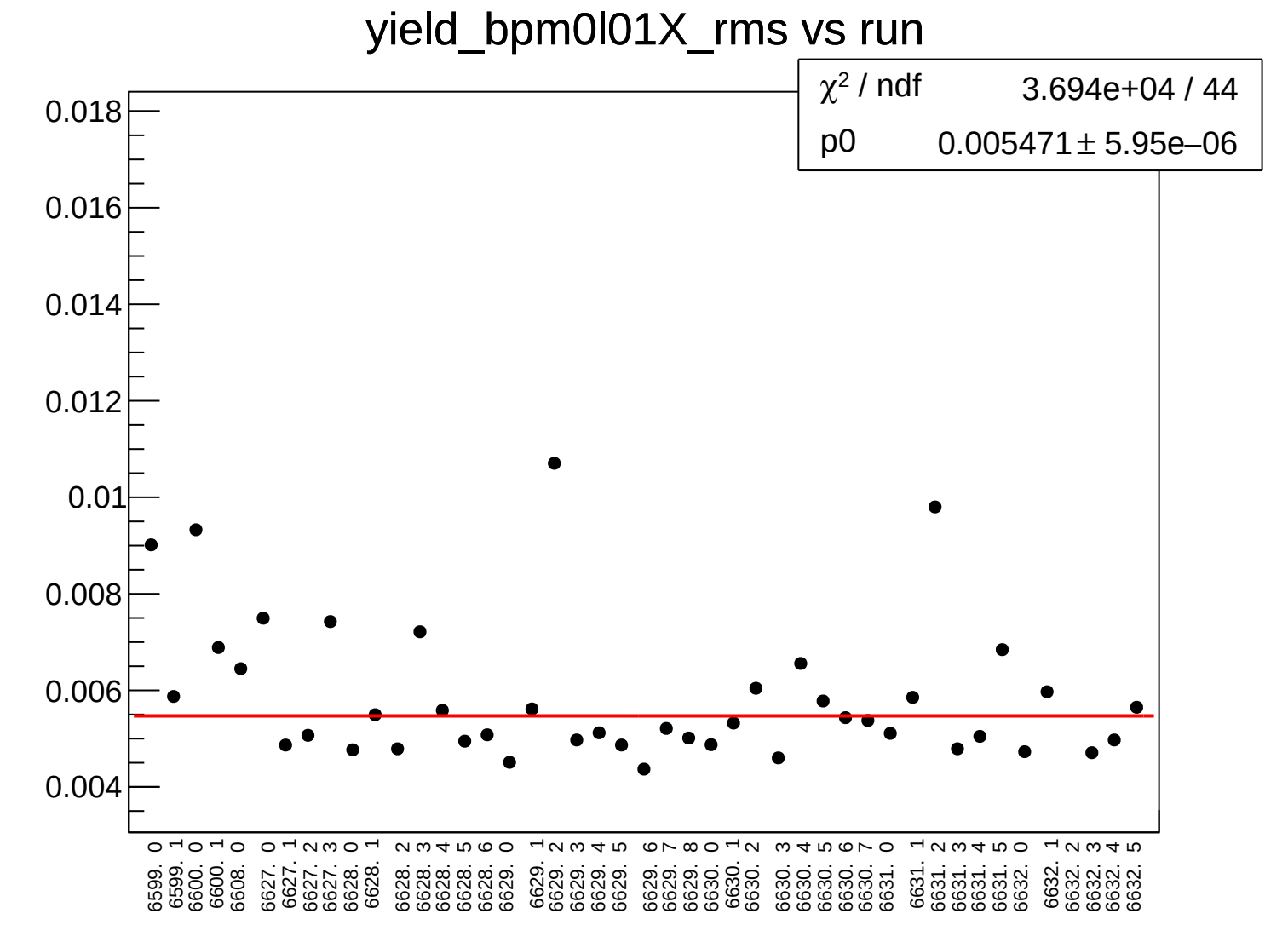

yield_bpm0i01aX_rms vs run
χ² / ndf 2.201e+04 / 44
p0 0.008392 ± 9.047e−06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

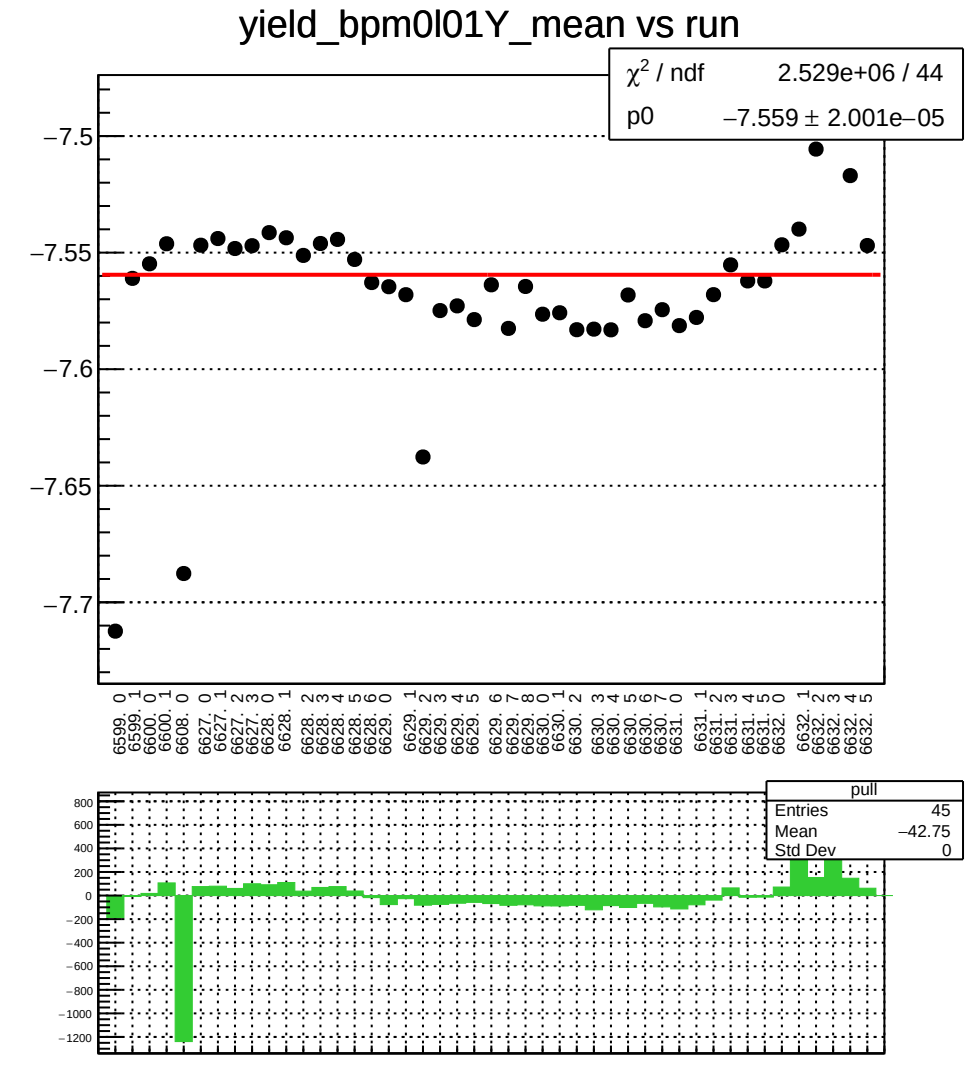

yield_bpm0i01aY_mean vs run
χ² / ndf 8.113e+06 / 44
p0 1.513 ± 8.214e−06
1.58
1.56
1.54
1.52
1.5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −141.5
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

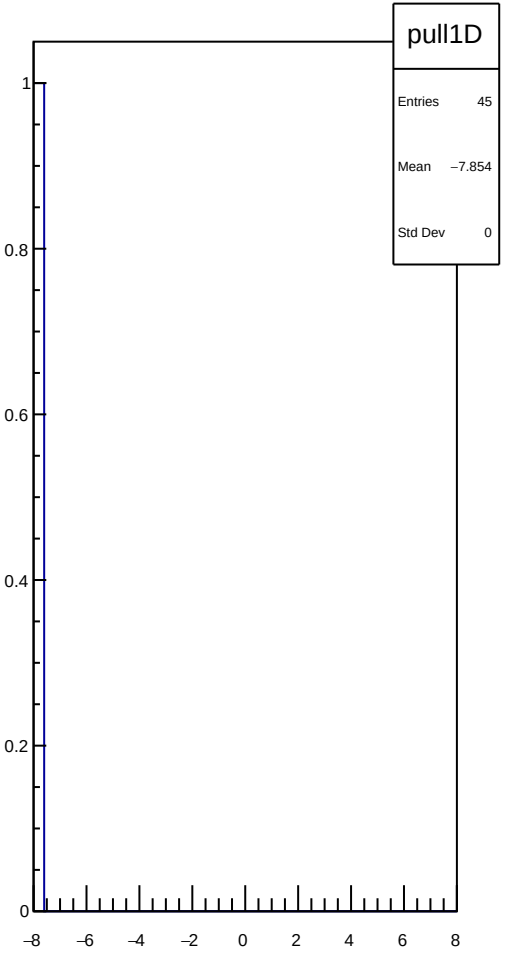

yield_bpm0i01aY_rms vs run
χ² / ndf 3.888e+04 / 44
p0 0.005335 ± 5.808e−06
0.05
0.04
0.03
0.02
0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

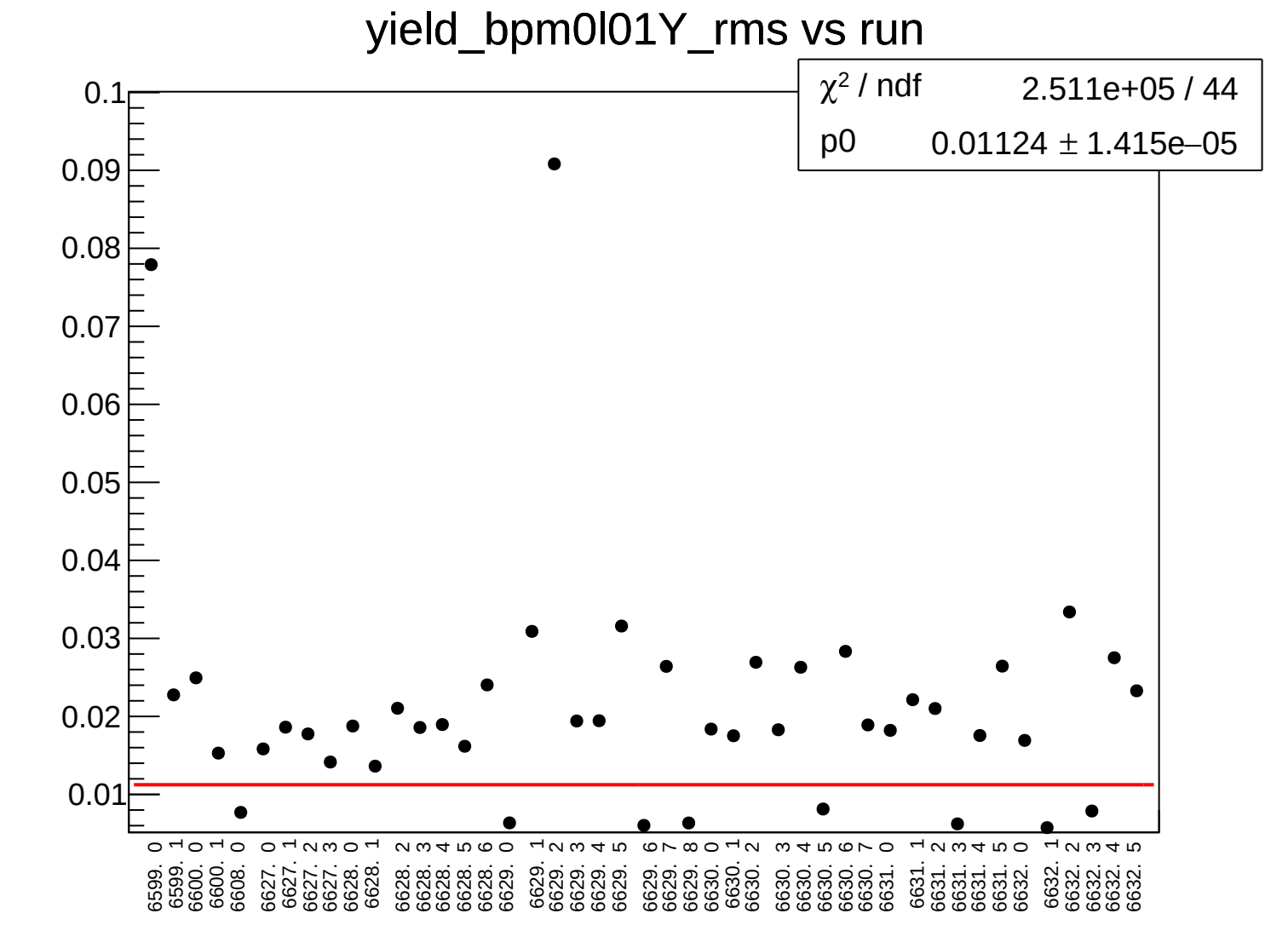

yield_bpm0l01X_mean vs run
χ² / ndf 1.462e+06 / 44
p0 −1.921 ± 8.414e−06
−1.88
−1.89
−1.9
−1.91
−1.92
−1.93
−1.94
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −35.93
Std Dev 0
600
500
400
300
200
100
0
−100
−200


pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0l01X_rms vs run
χ² / ndf 3.694e+04 / 44
p0 0.005471 ± 5.95e–06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


yield_bpm0l01Y_mean vs run
χ² / ndf 2.529e+06 / 44
p0 −7.559 ± 2.001e−05
−7.5
−7.55
−7.6
−7.65
−7.7
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −42.75
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200


pull1D
Entries 45
Mean −7.854
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0l01Y_rms vs run
χ² / ndf 2.511e+05 / 44
p0 0.01124 ± 1.415e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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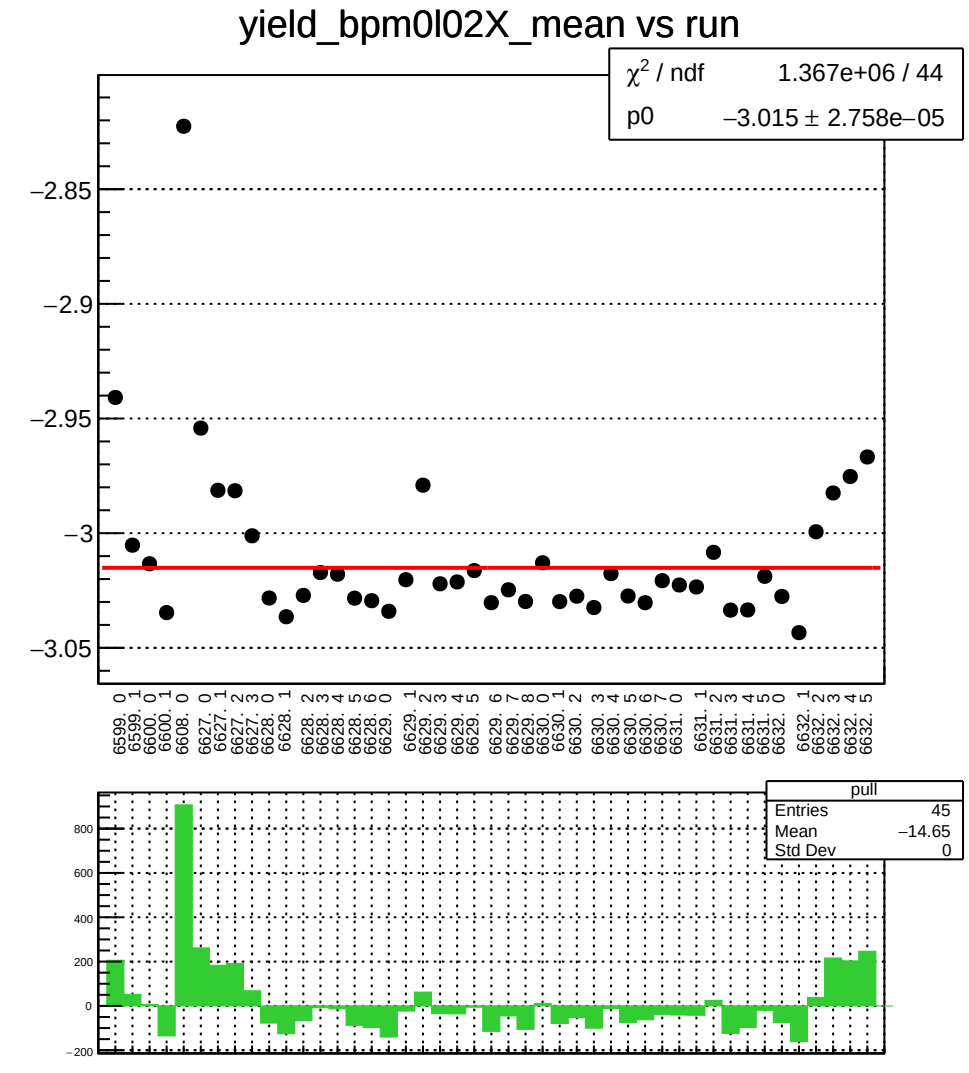
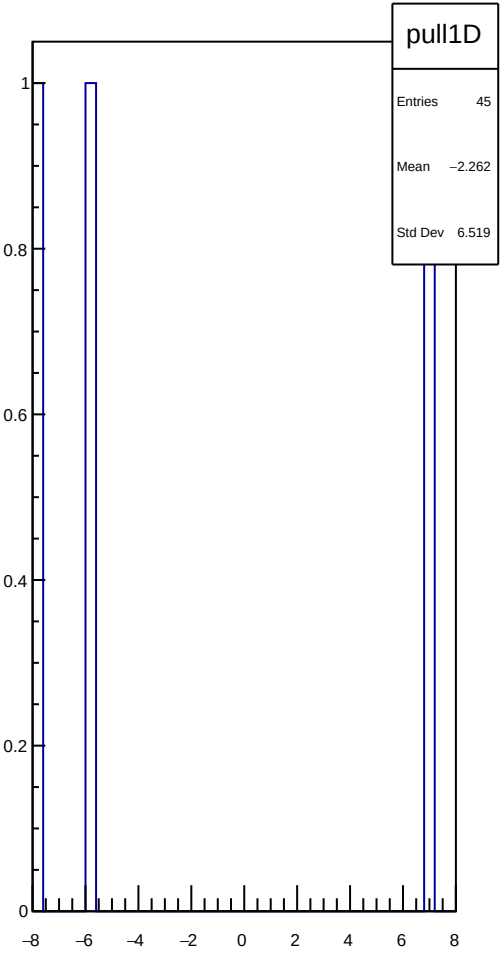
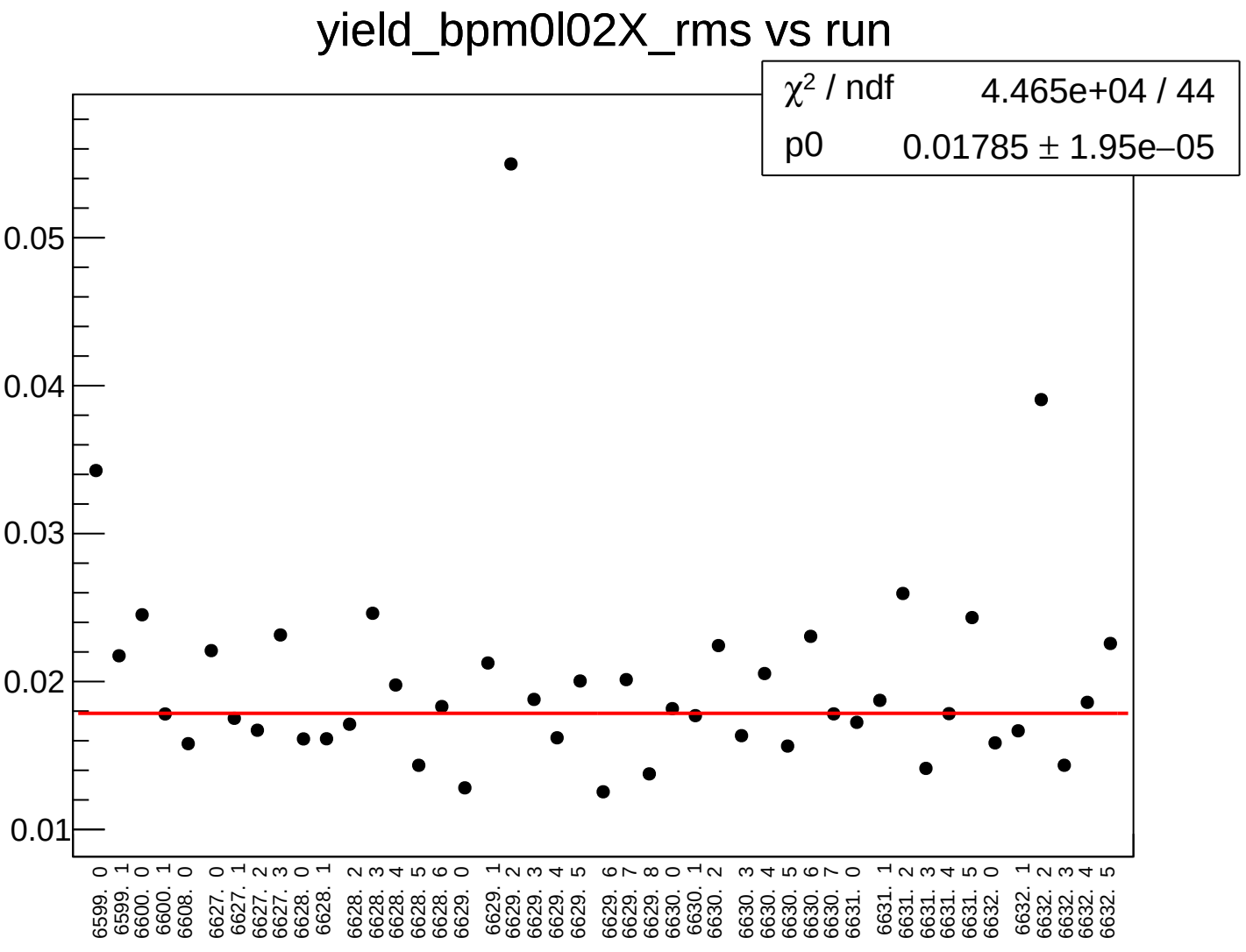
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


yield_bpm0l02X_mean vs run
χ² / ndf 1.367e+06 / 44
p0 −3.015 ± 2.758e−05
−2.85
−2.9
−2.95
−3
−3.05
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −14.65
Std Dev 0
800
600
400
200
0
−200


pull1D
Entries 45
Mean −2.262
Std Dev 6.519
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 4.465e+04 / 44
p0 0.01785 ± 1.95e−05
0.05
0.04
0.03
0.02
0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
6632. 0
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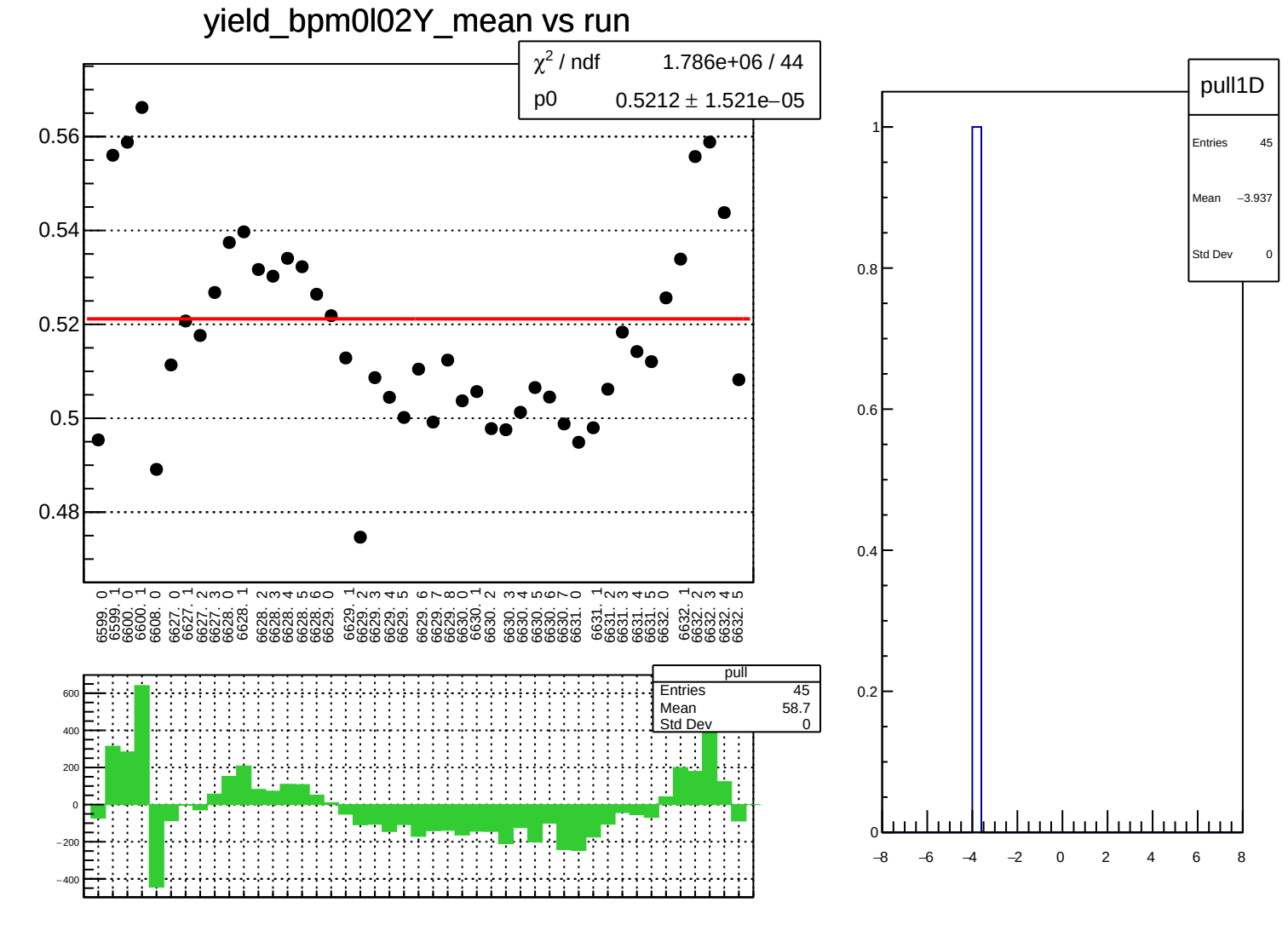
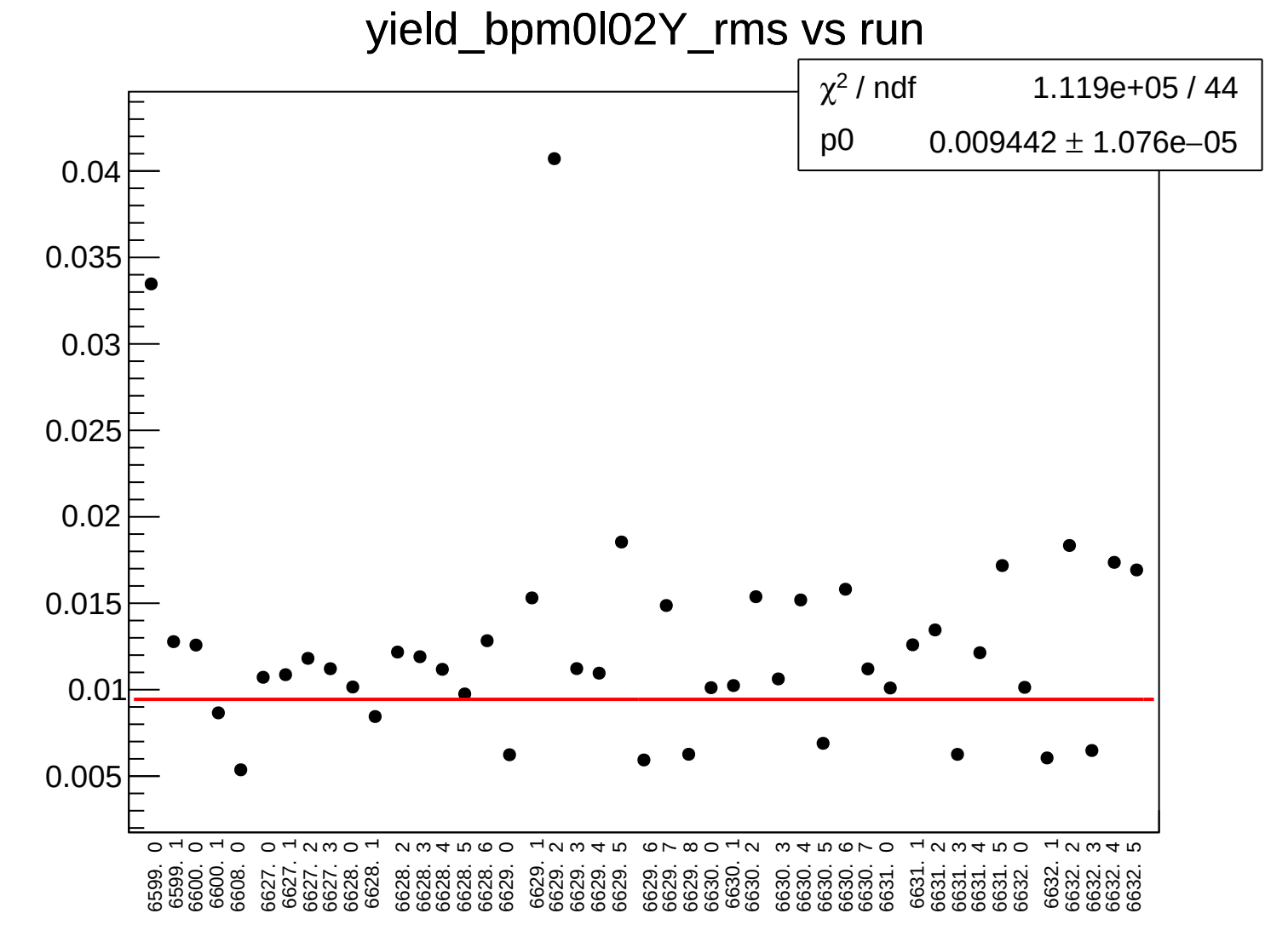
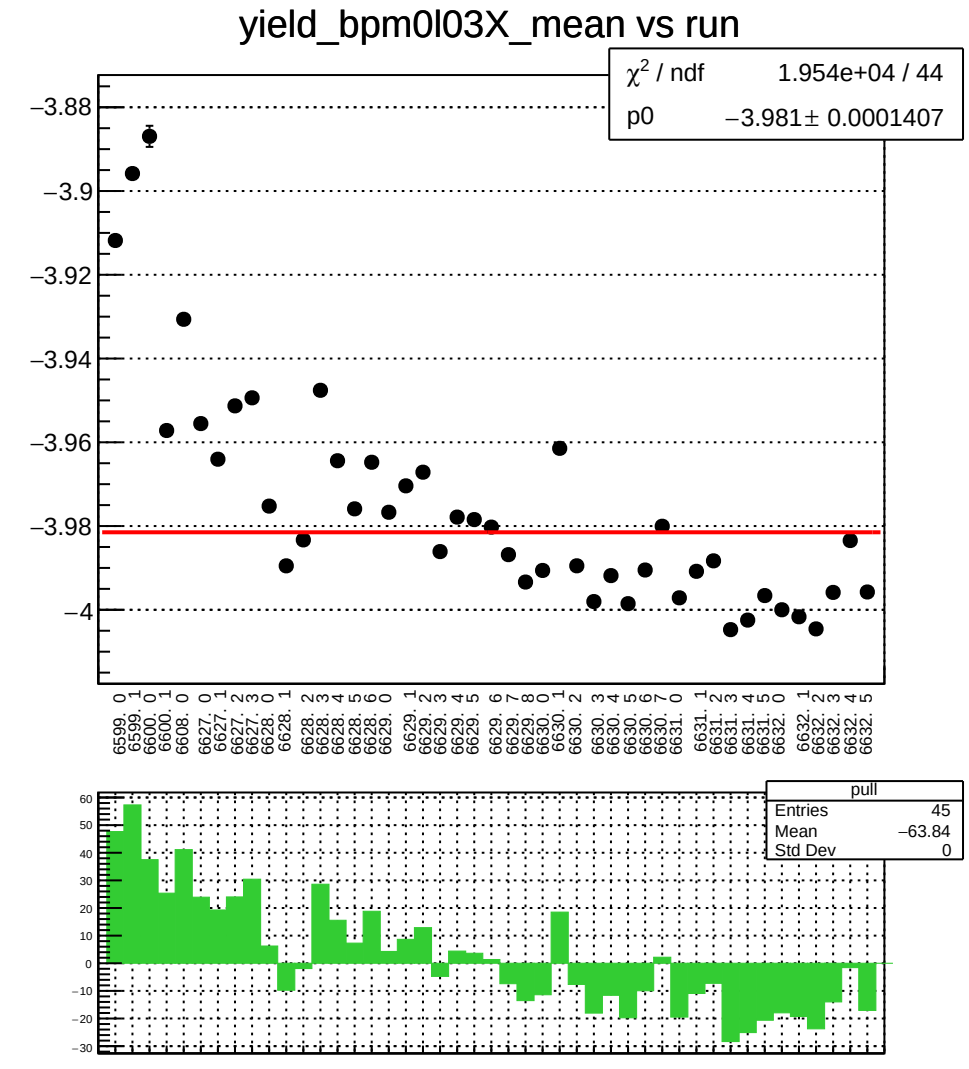
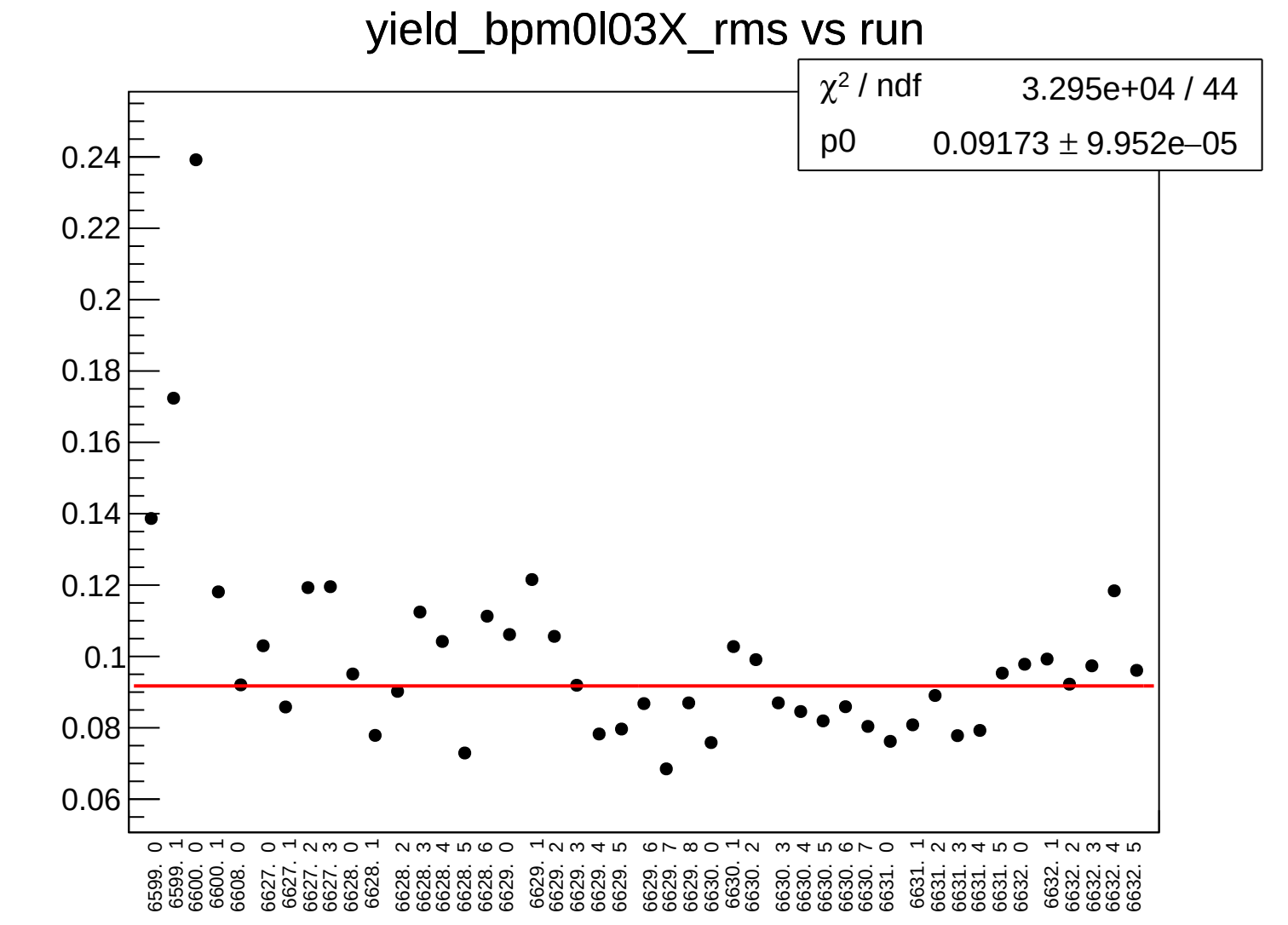
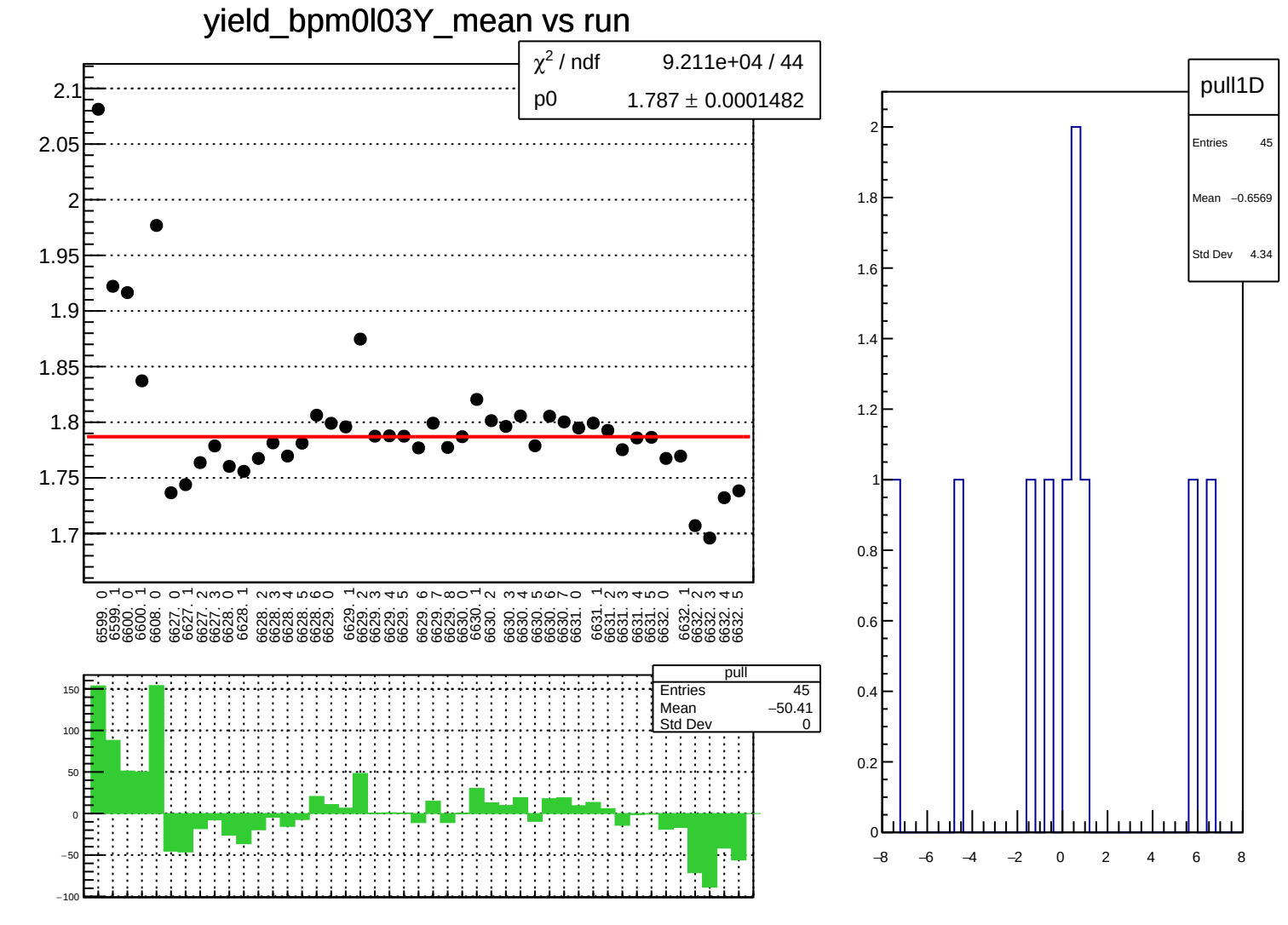
6632. 2
6632. 3
6632. 4
6632. 5

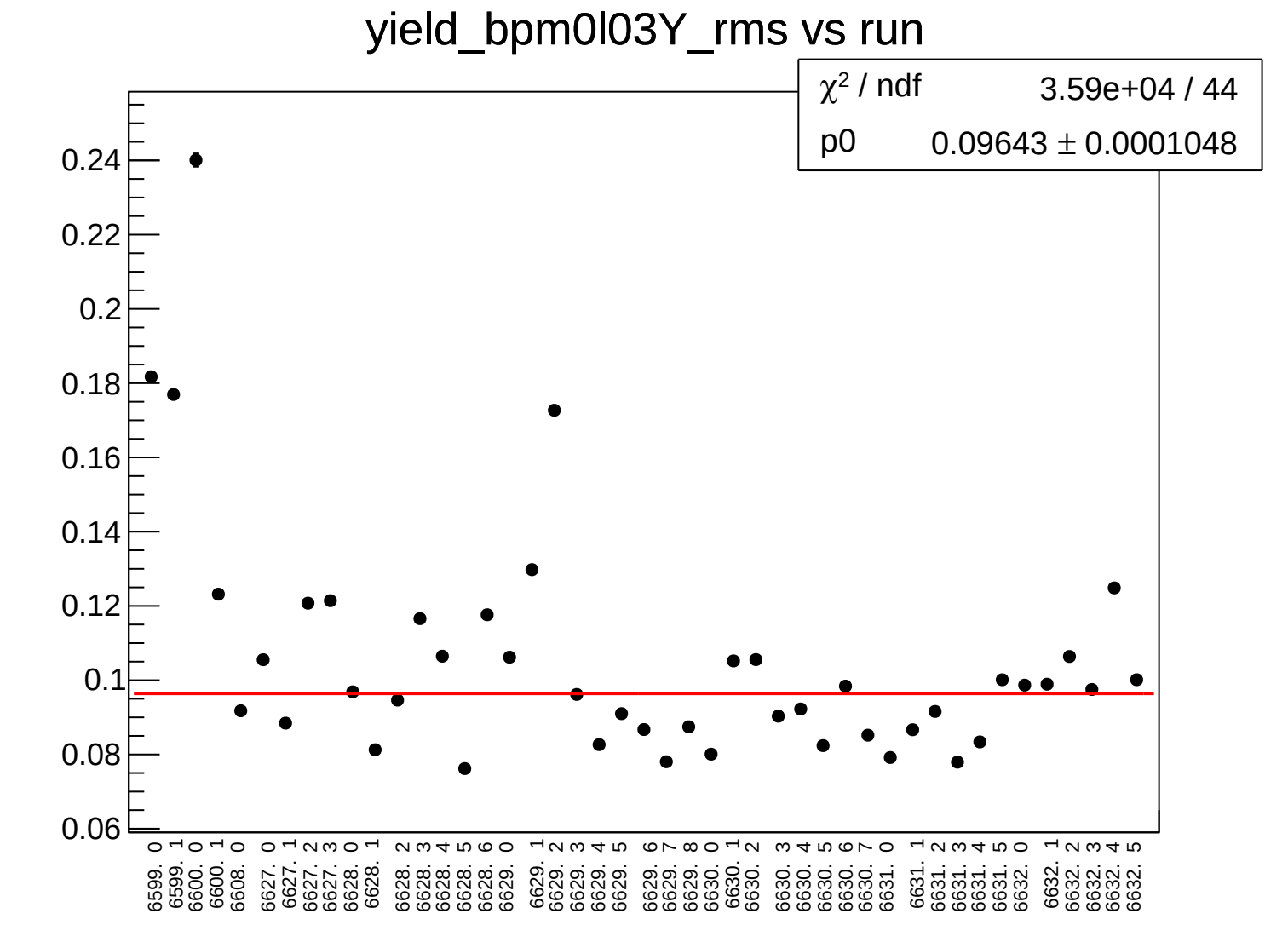

yield_bpm0l02Y_mean vs run
χ² / ndf 1.786e+06 / 44
p0 0.5212 ± 1.521e−05
0.56
0.54
0.52
0.5
0.48
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 58.7
Std Dev 0
600
400
200
0
−200
−400
pull1D
Entries 45
Mean −3.937
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

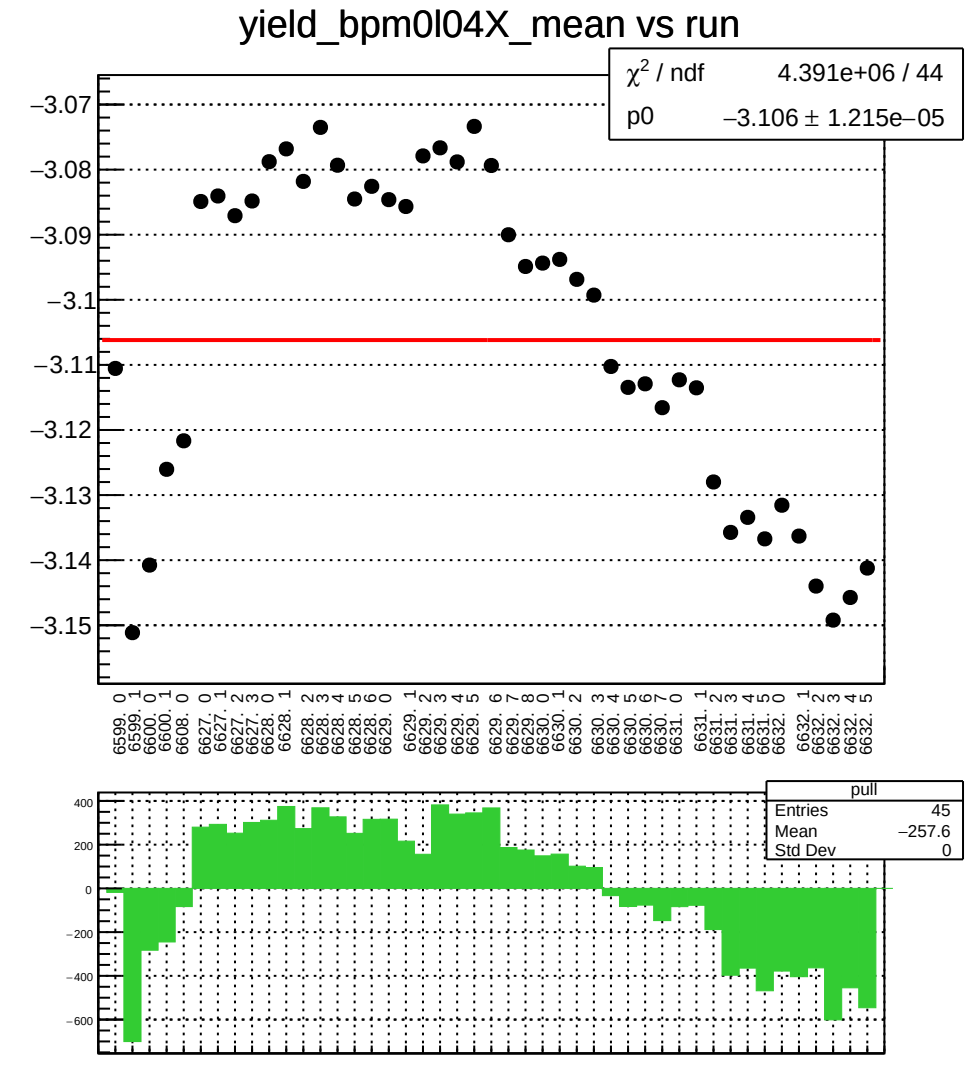

yield_bpm0l02Y_rms vs run
χ² / ndf 1.119e+05 / 44
p0 0.009442 ± 1.076e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


yield_bpm0l03X_mean vs run
χ² / ndf 1.954e+04 / 44
p0 −3.981 ± 0.0001407
−3.88
−3.9
−3.92
−3.94
−3.96
−3.98
−4
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −63.84
Std Dev 0
60
50
40
30
20
10
0
−10
−20
−30
pull1D
Entries 45
Mean −0.09297
Std Dev 5.144
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_bpm0l03X_rms vs run
χ² / ndf 3.295e+04 / 44
p0 0.09173 ± 9.952e–05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


yield_bpm0l03Y_mean vs run
χ² / ndf 9.211e+04 / 44
p0 1.787 ± 0.0001482
pull
Entries 45
Mean −50.41
Std Dev 0
pull1D
Entries 45
Mean −0.6569
Std Dev 4.34


yield_bpm0l03Y_rms vs run
χ² / ndf 3.59e+04 / 44
p0 0.09643 ± 0.0001048
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


yield_bpm0l04X_mean vs run
χ² / ndf 4.391e+06 / 44
p0 −3.106 ± 1.215e−05
−3.07
−3.08
−3.09
−3.1
−3.11
−3.12
−3.13
−3.14
−3.15
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
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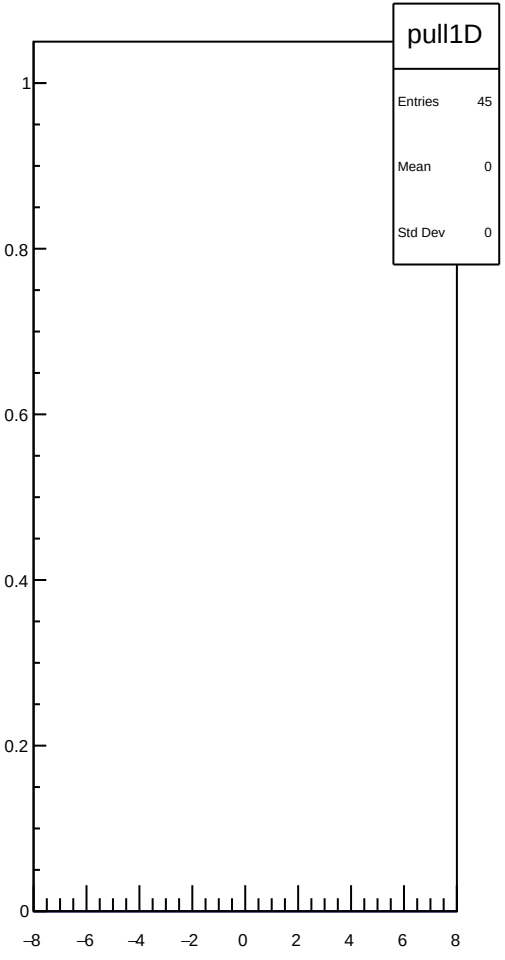
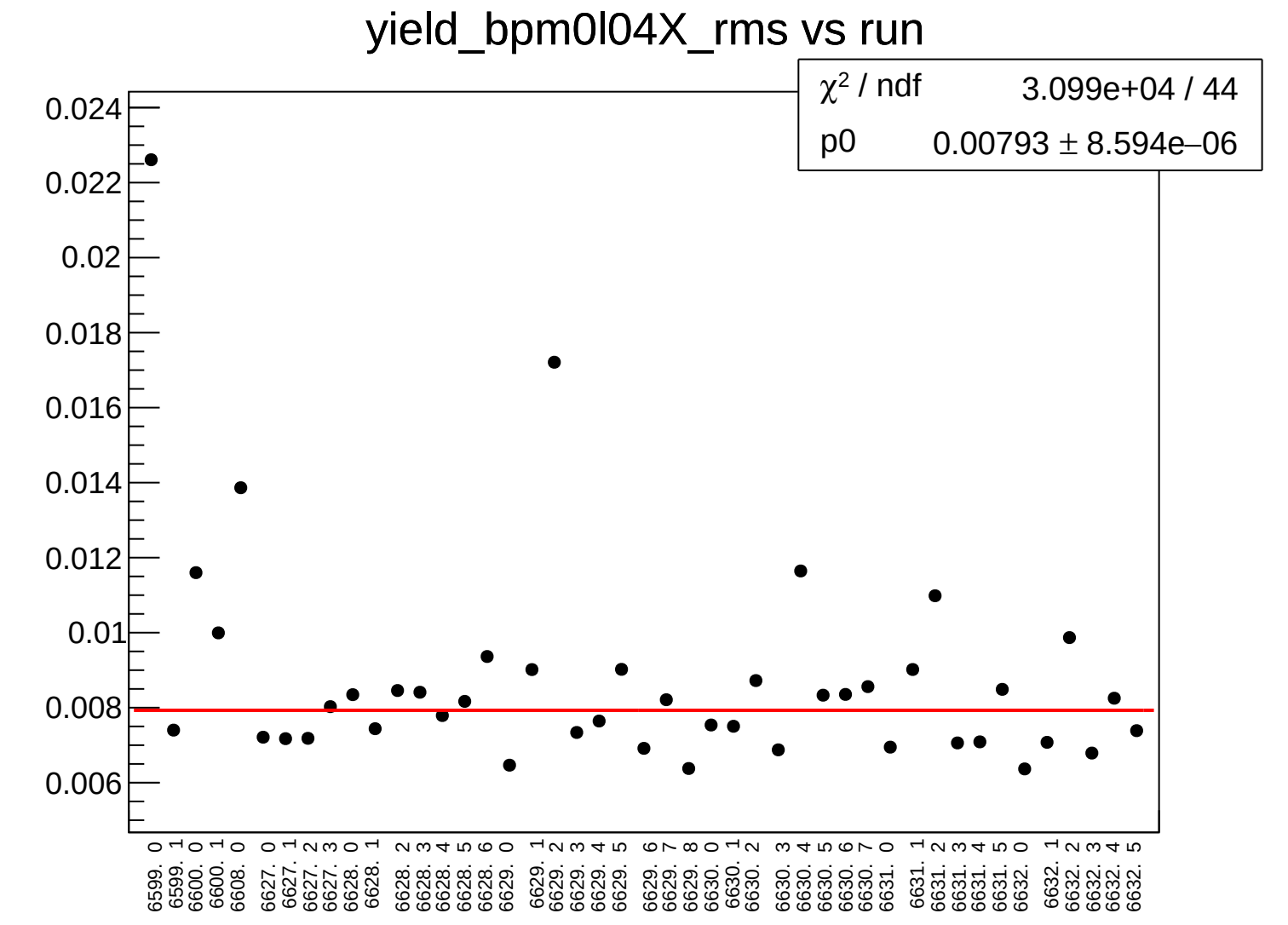
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −257.6
Std Dev 0
400
200
0
−200
−400
−600


pull1D
Entries 45
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_bpm0l04X_rms vs run
χ² / ndf 3.099e+04 / 44
p0 0.00793 ± 8.594e–06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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6632. 2
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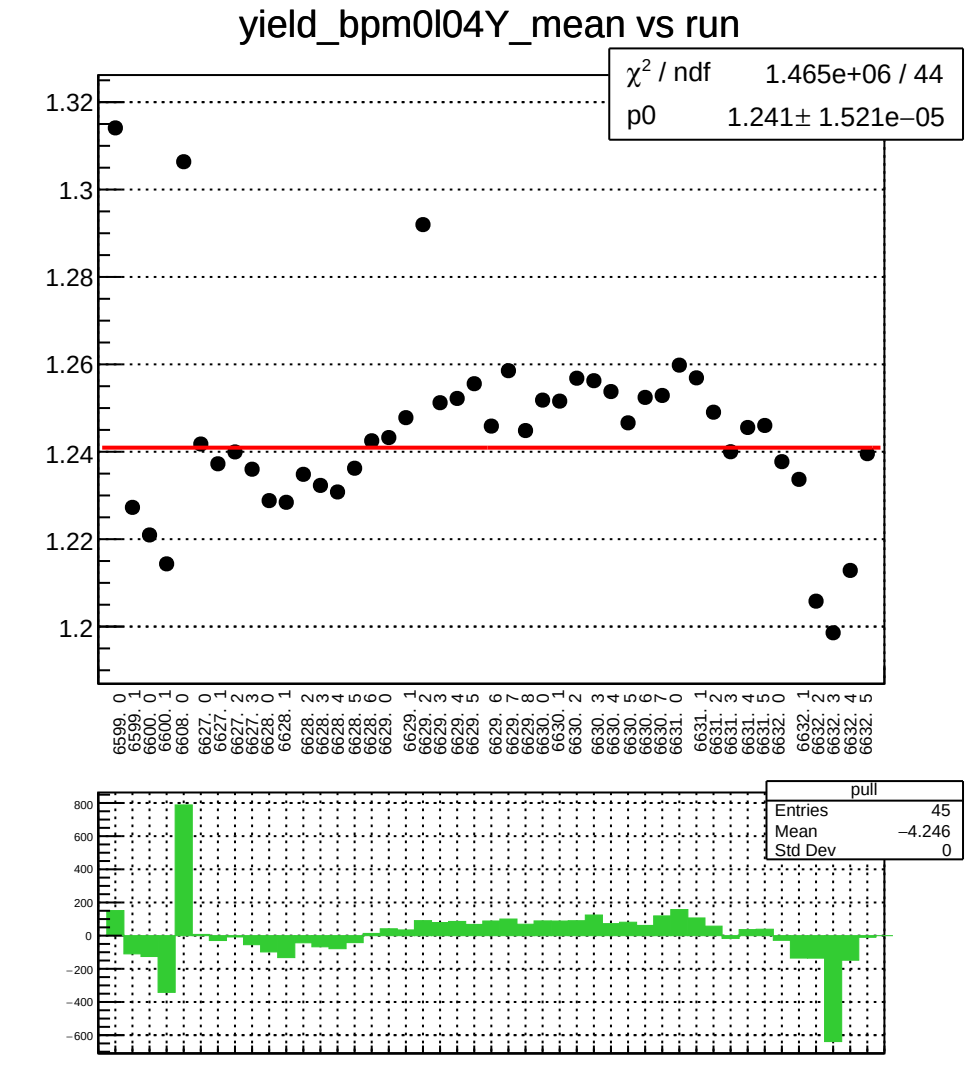
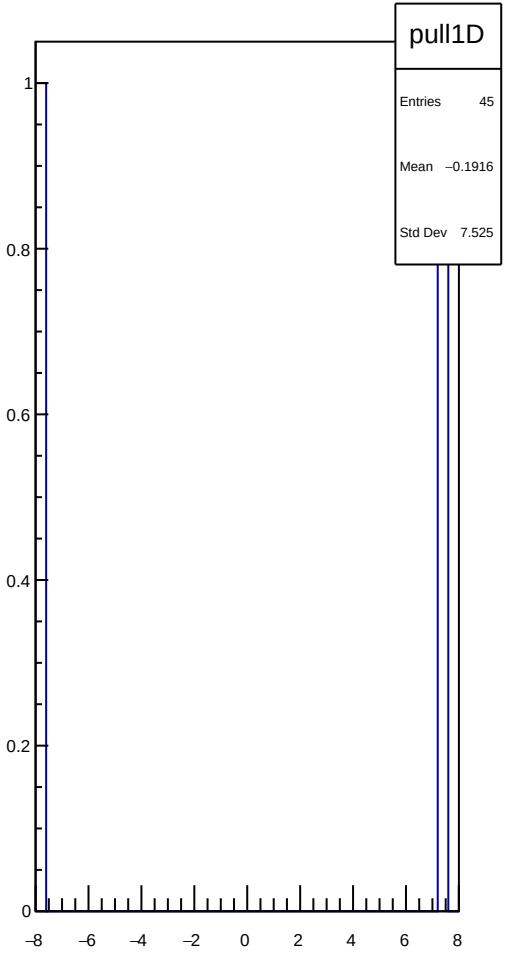
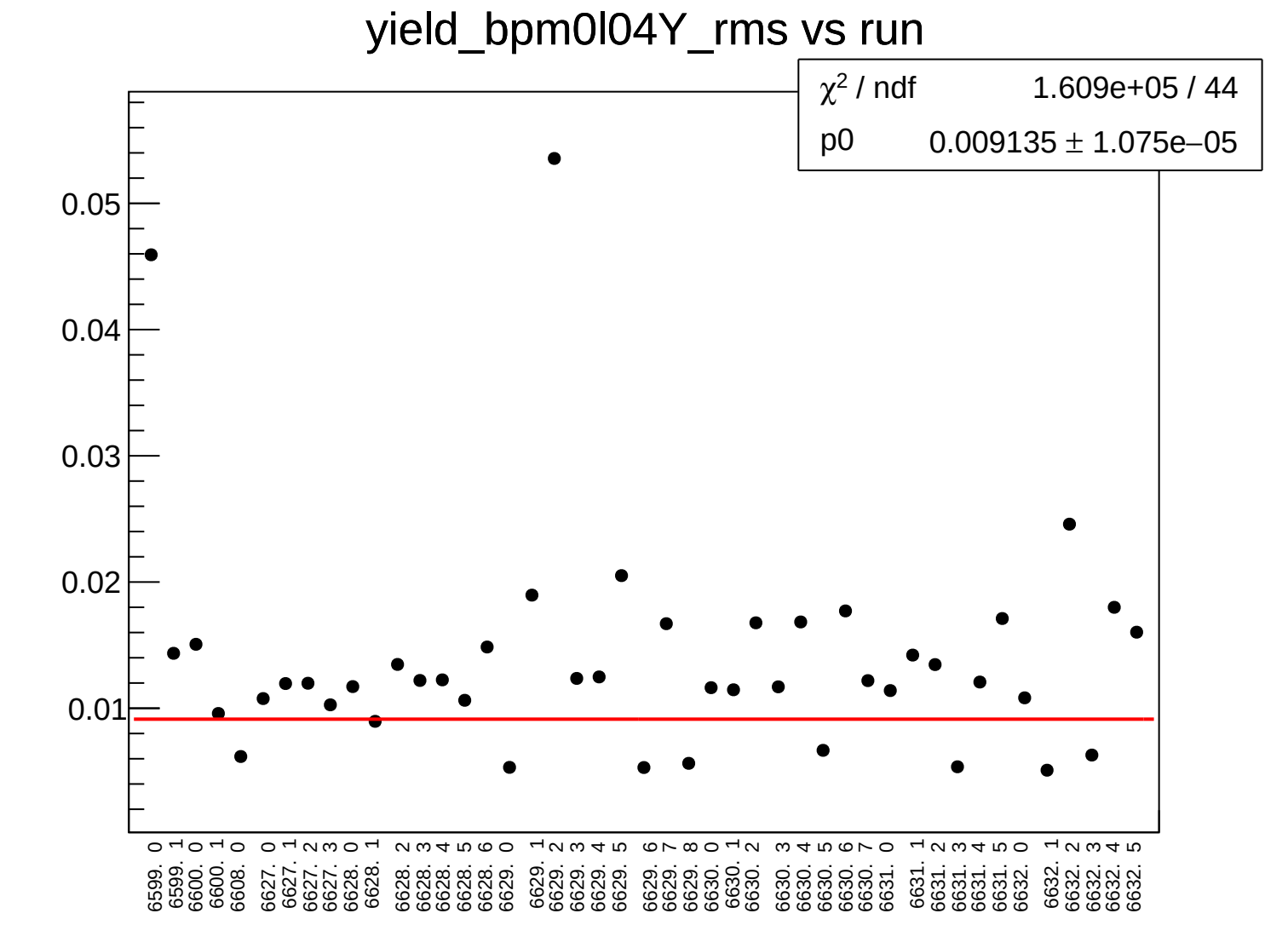
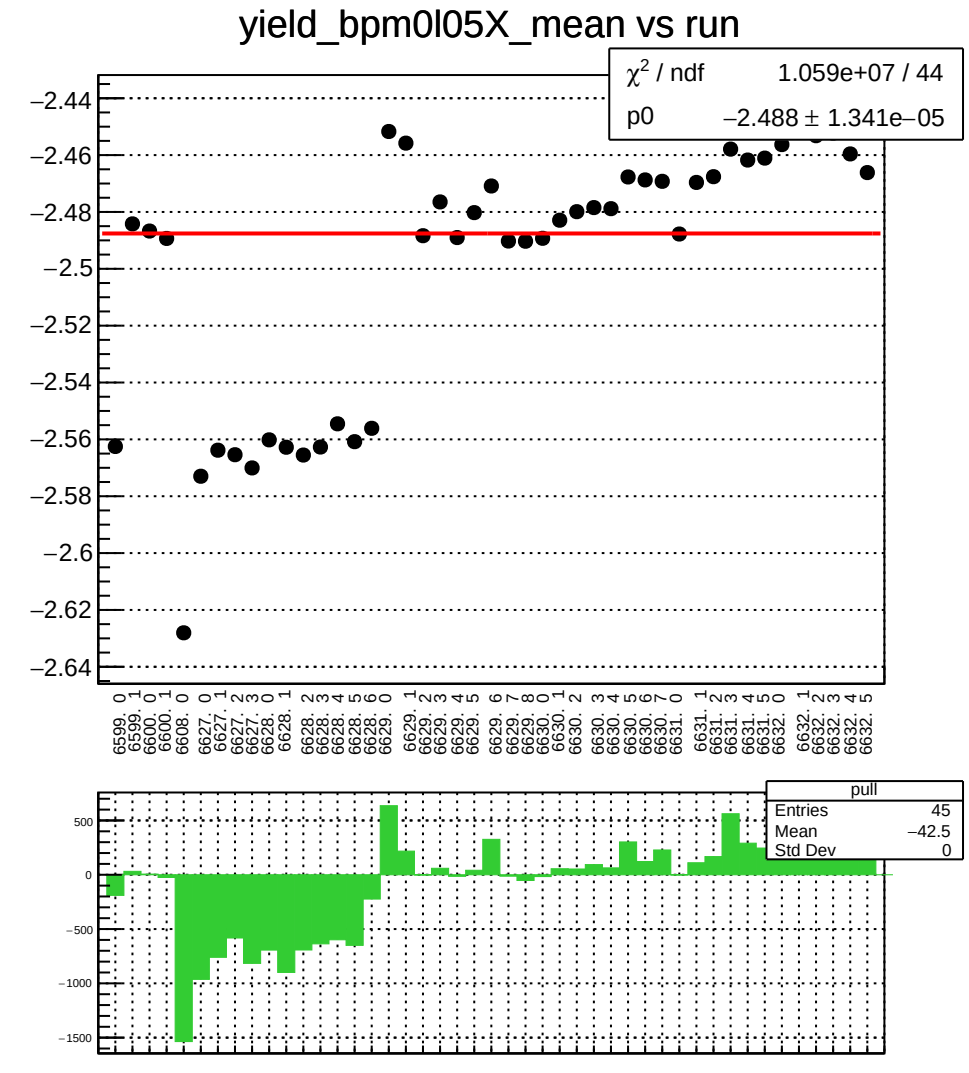
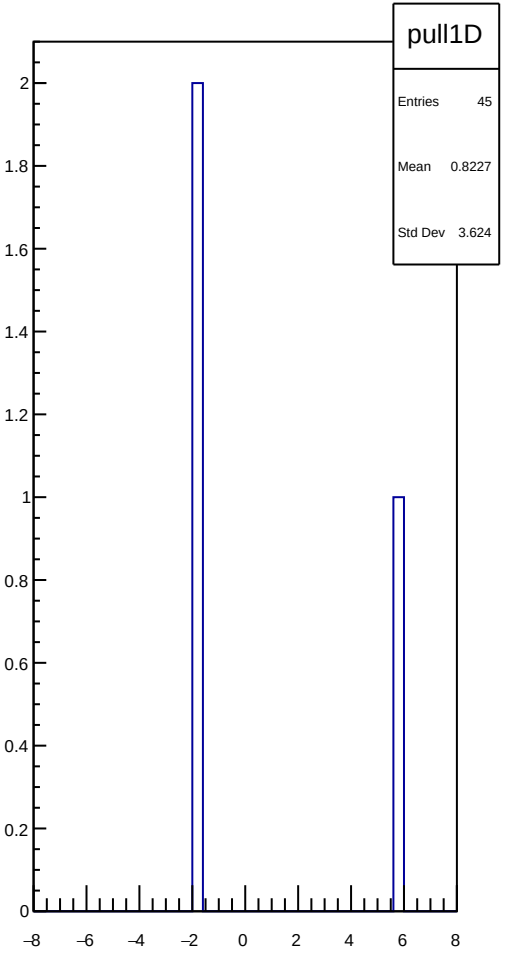
6632. 4
6632. 5

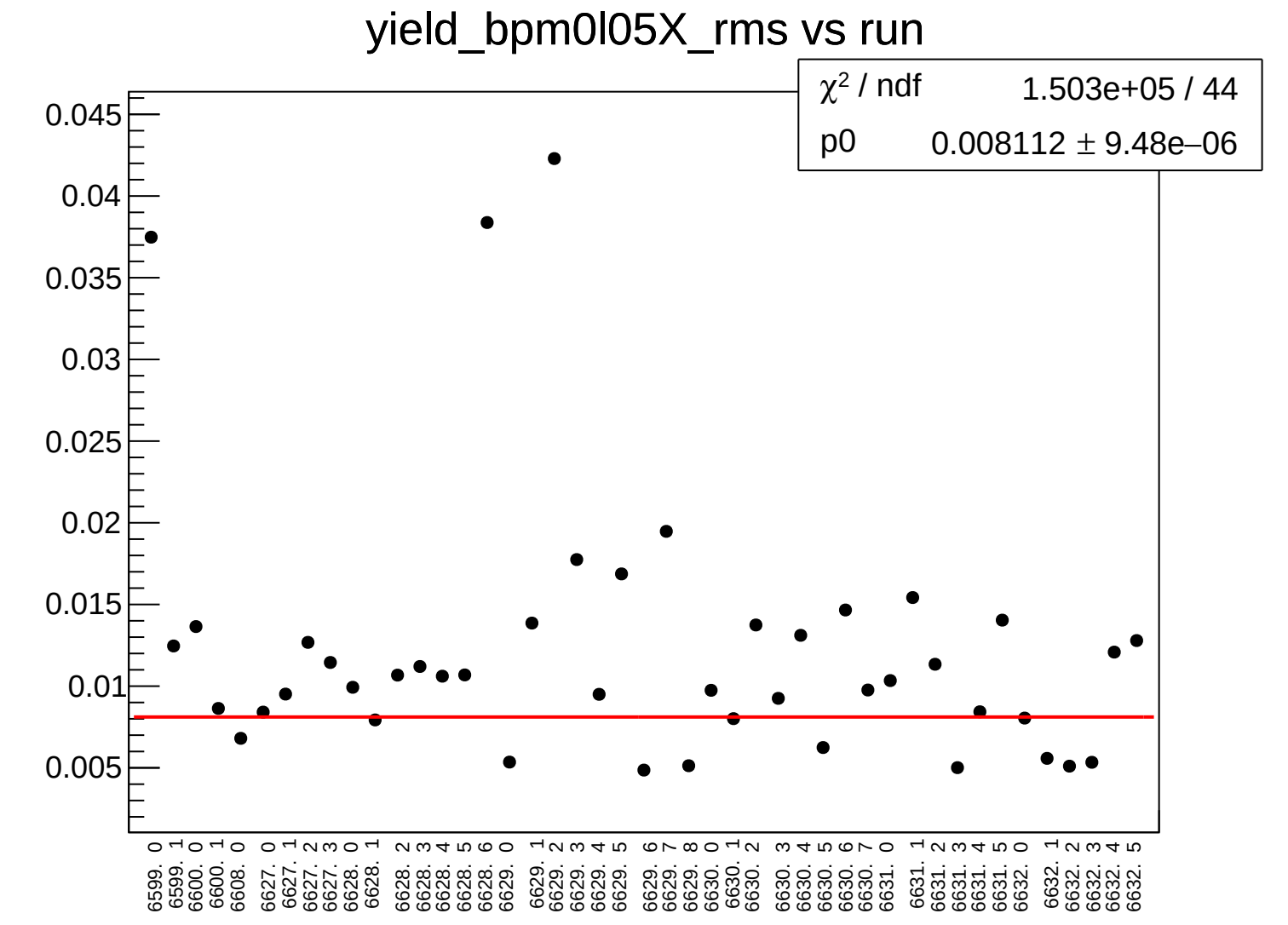

yield_bpm0l04Y_mean vs run
χ² / ndf 1.465e+06 / 44
p0 1.241± 1.521e−05
1.32
1.3
1.28
1.26
1.24
1.22
1.2
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −4.246
Std Dev 0
800
600
400
200
0
−200
−400
−600

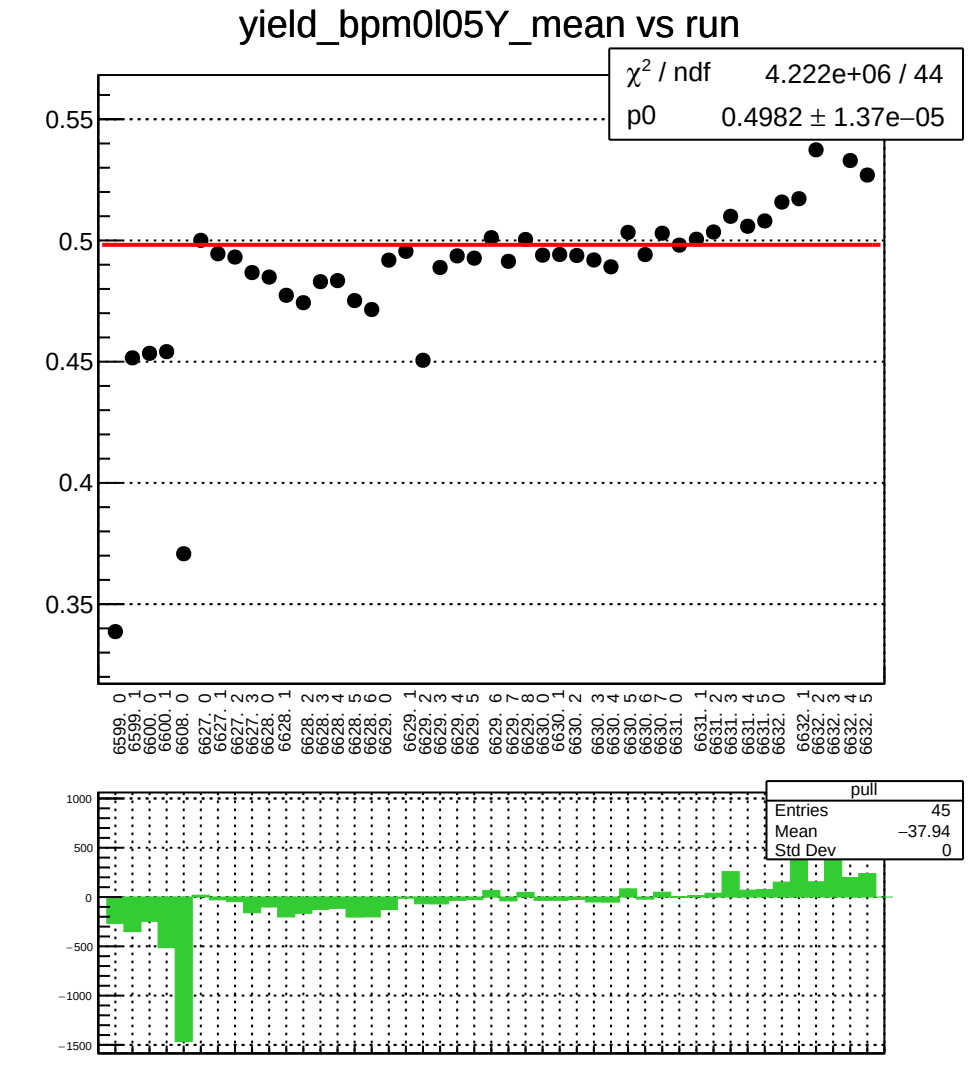


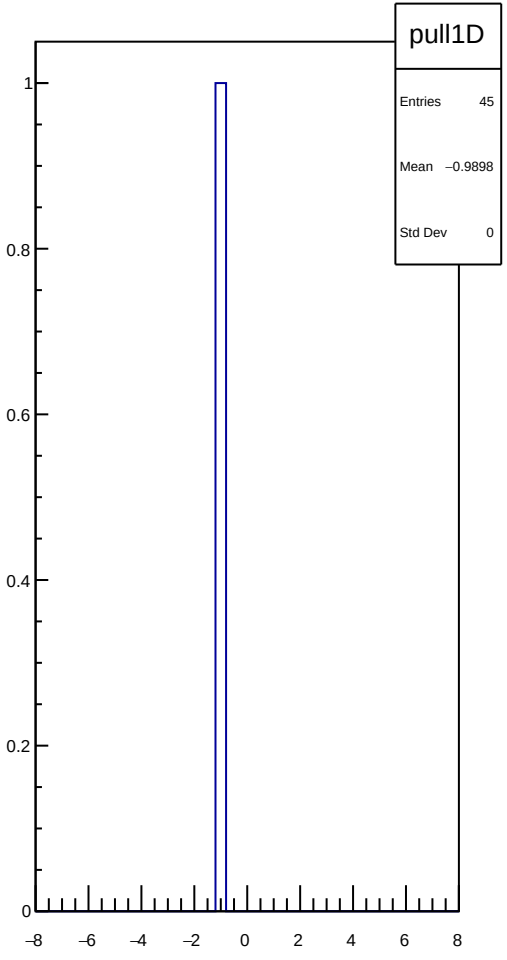

yield_bpm0l04Y_rms vs run
χ² / ndf 1.609e+05 / 44
p0 0.009135 ± 1.075e−05
0.05
0.04
0.03
0.02
0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

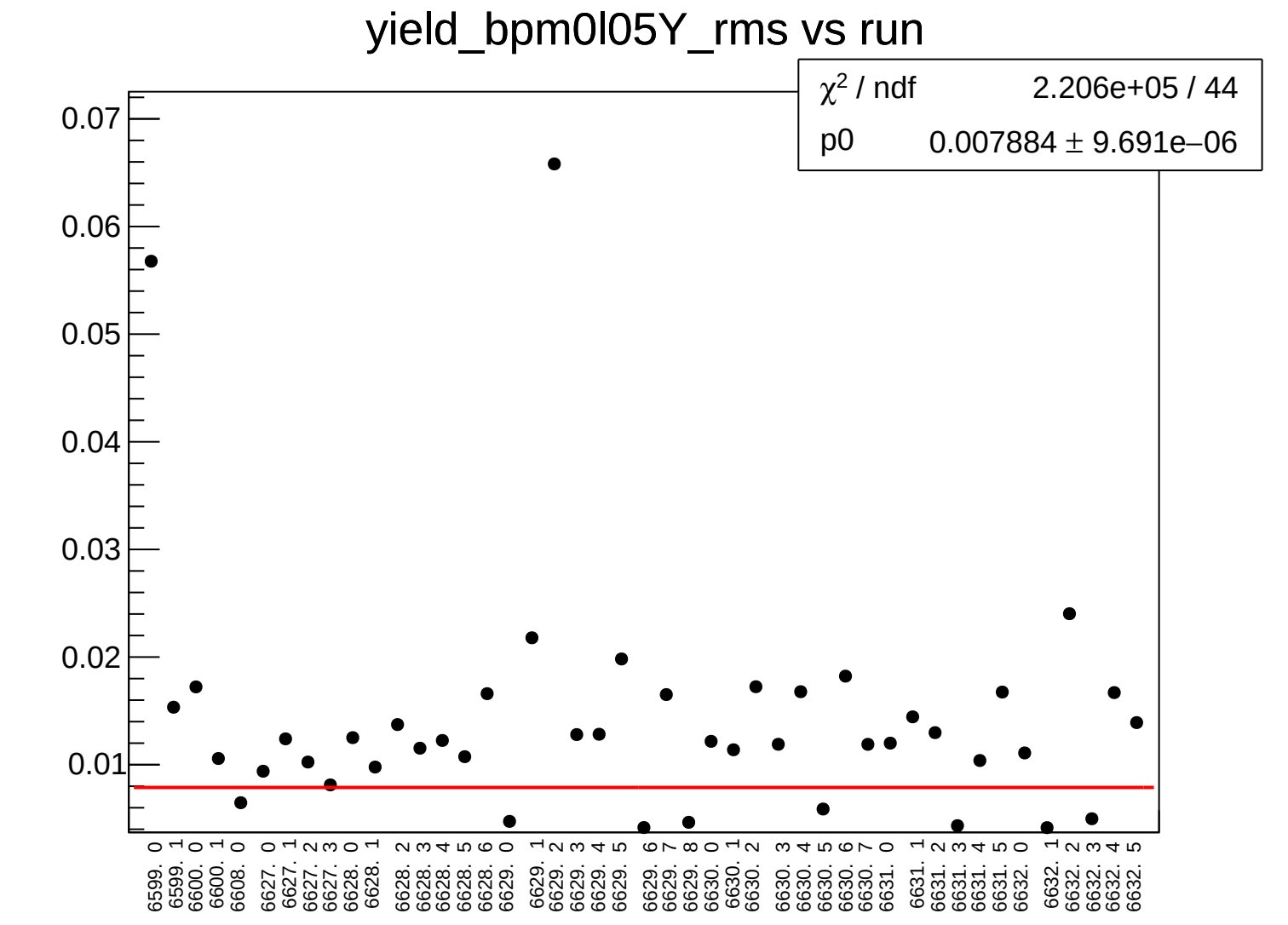

yield_bpm0l05X_mean vs run
χ² / ndf 1.059e+07 / 44
p0 −2.488 ± 1.341e−05
−2.44
−2.46
−2.48
−2.5
−2.52
−2.54
−2.56
−2.58
−2.6
−2.62
−2.64
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −42.5
Std Dev 0
500
0
−500
−1000
−1500

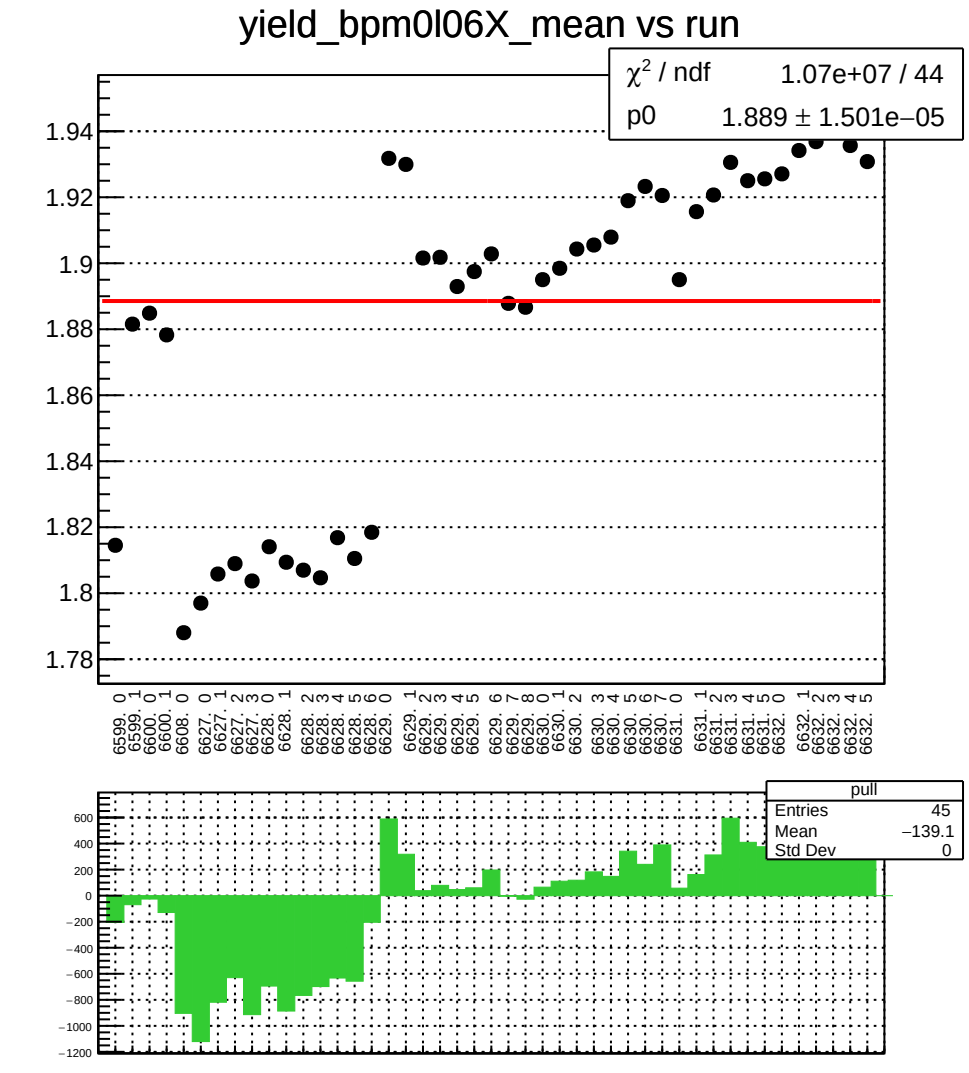

pull1D
Entries 45
Mean 0.8227
Std Dev 3.624
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

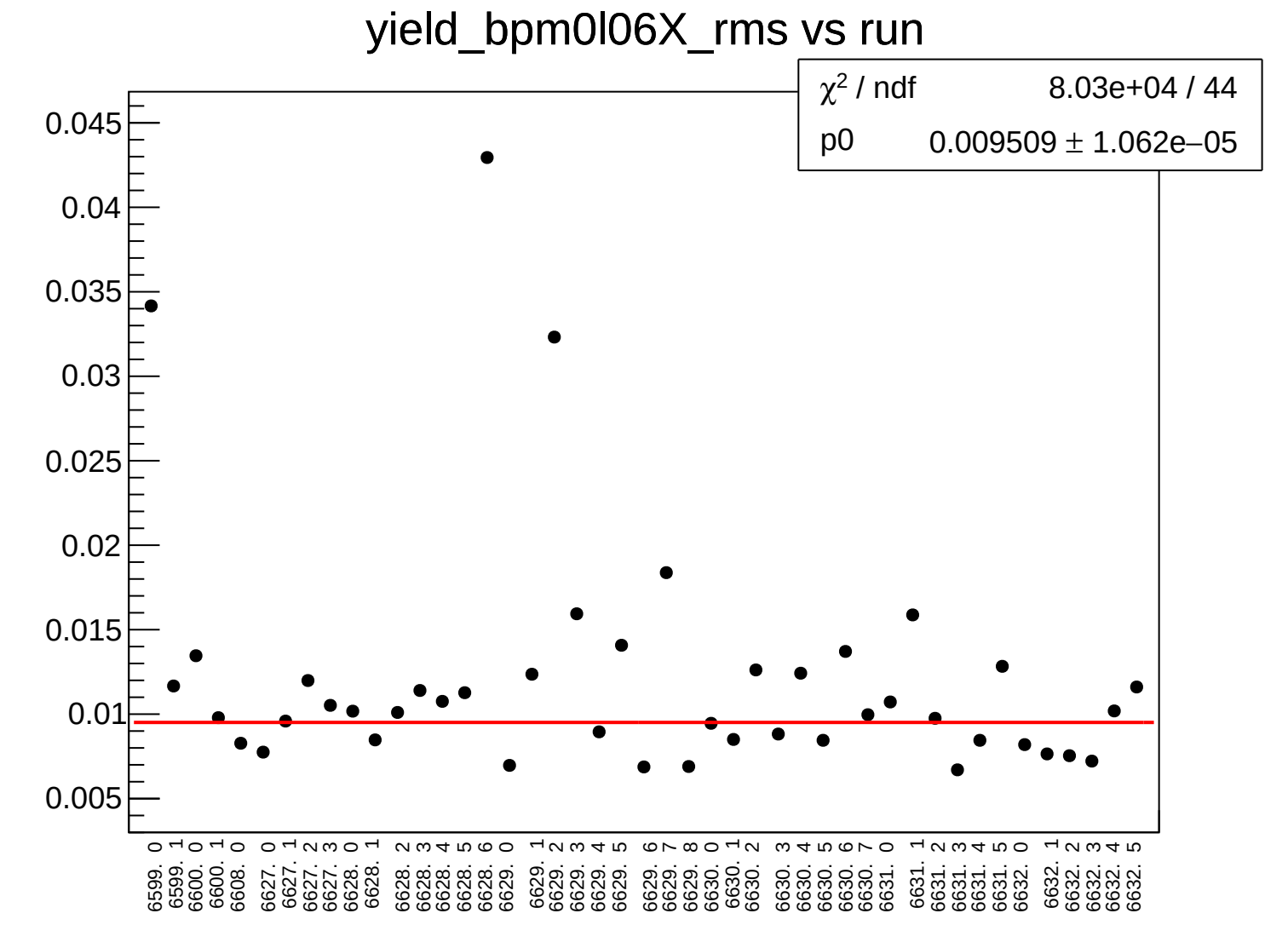

yield_bpm0l05X_rms vs run
χ² / ndf 1.503e+05 / 44
p0 0.008112 ± 9.48e–06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

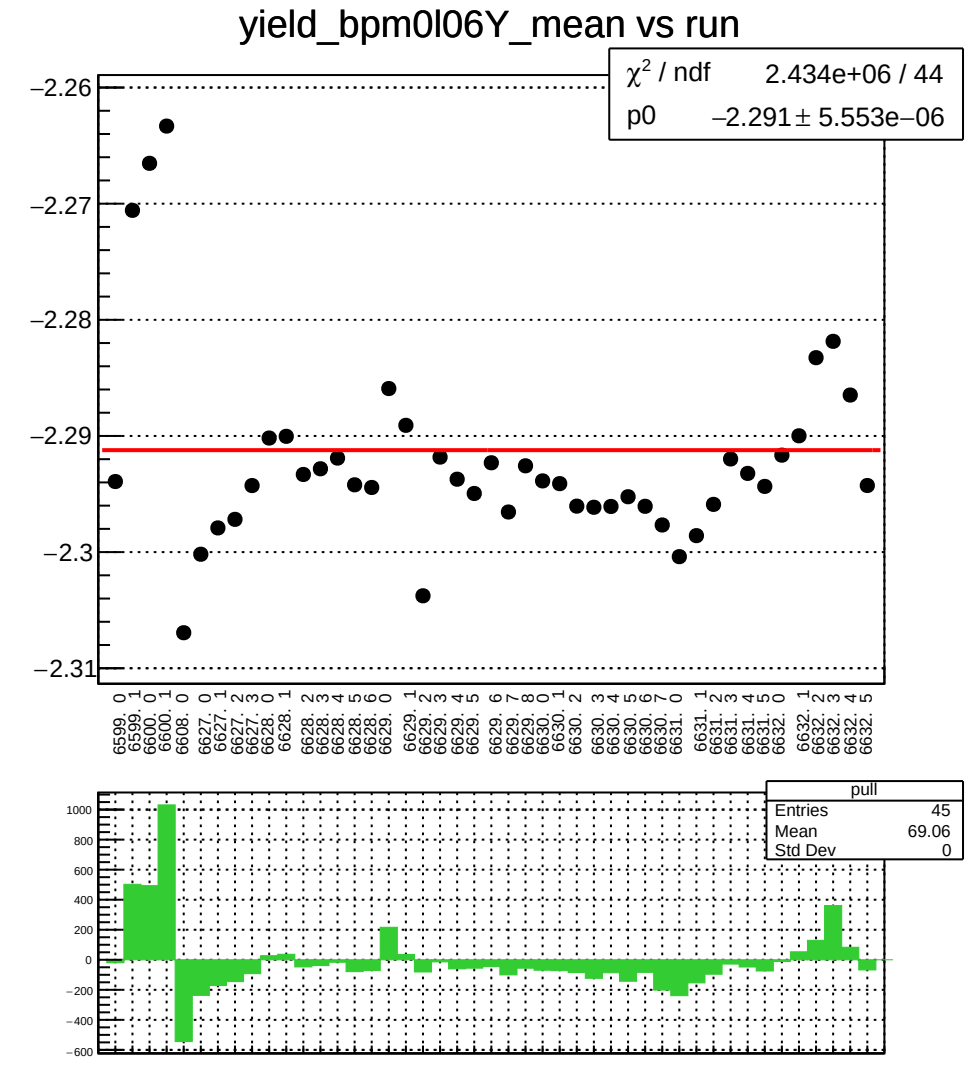

yield_bpm0l05Y_mean vs run
χ² / ndf 4.222e+06 / 44
p0 0.4982 ± 1.37e−05
0.55
0.5
0.45
0.4
0.35
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −37.94
Std Dev 0
1000
500
0
−500
−1000
−1500

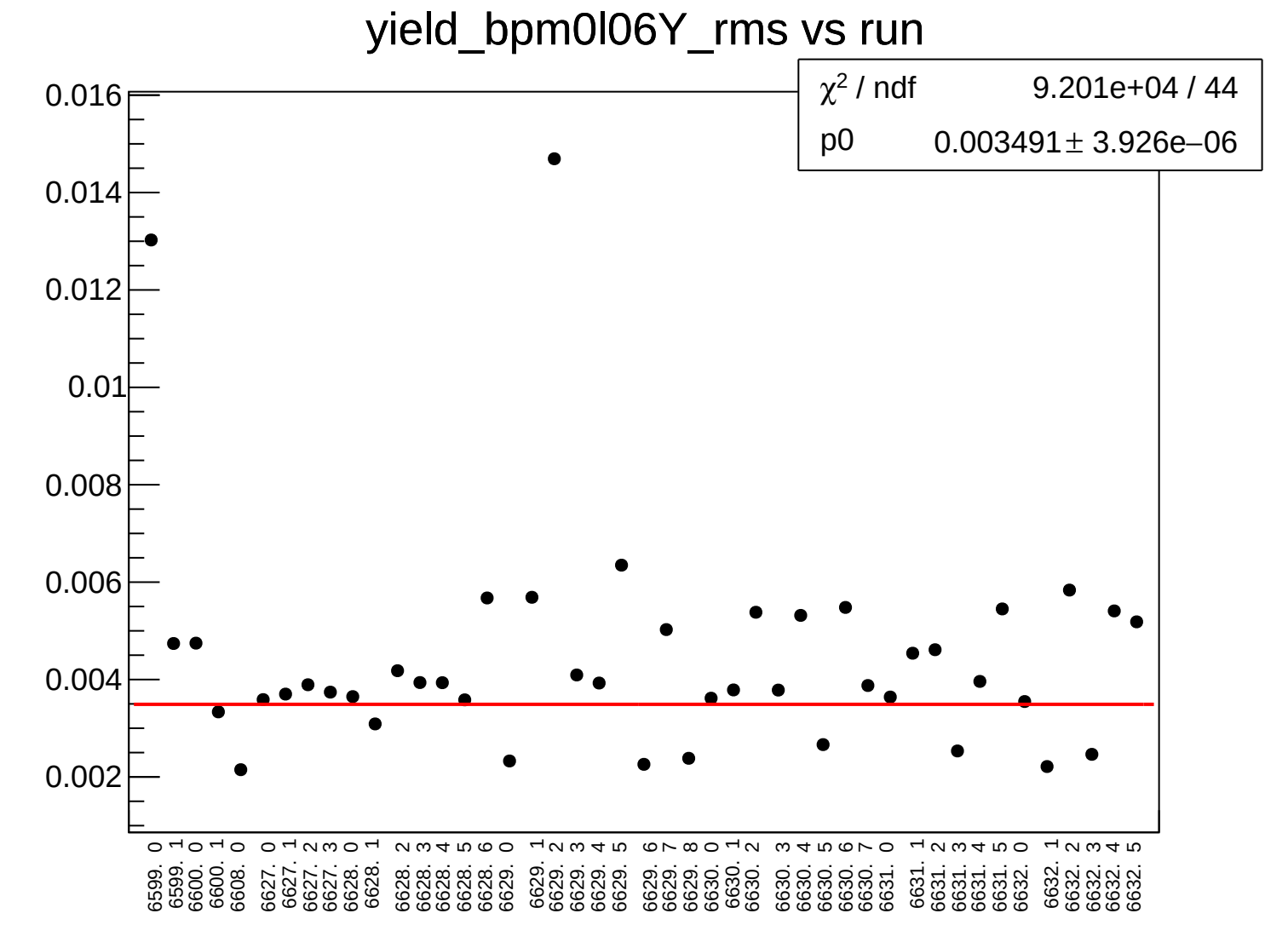

pull1D
Entries 45
Mean −0.9898
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

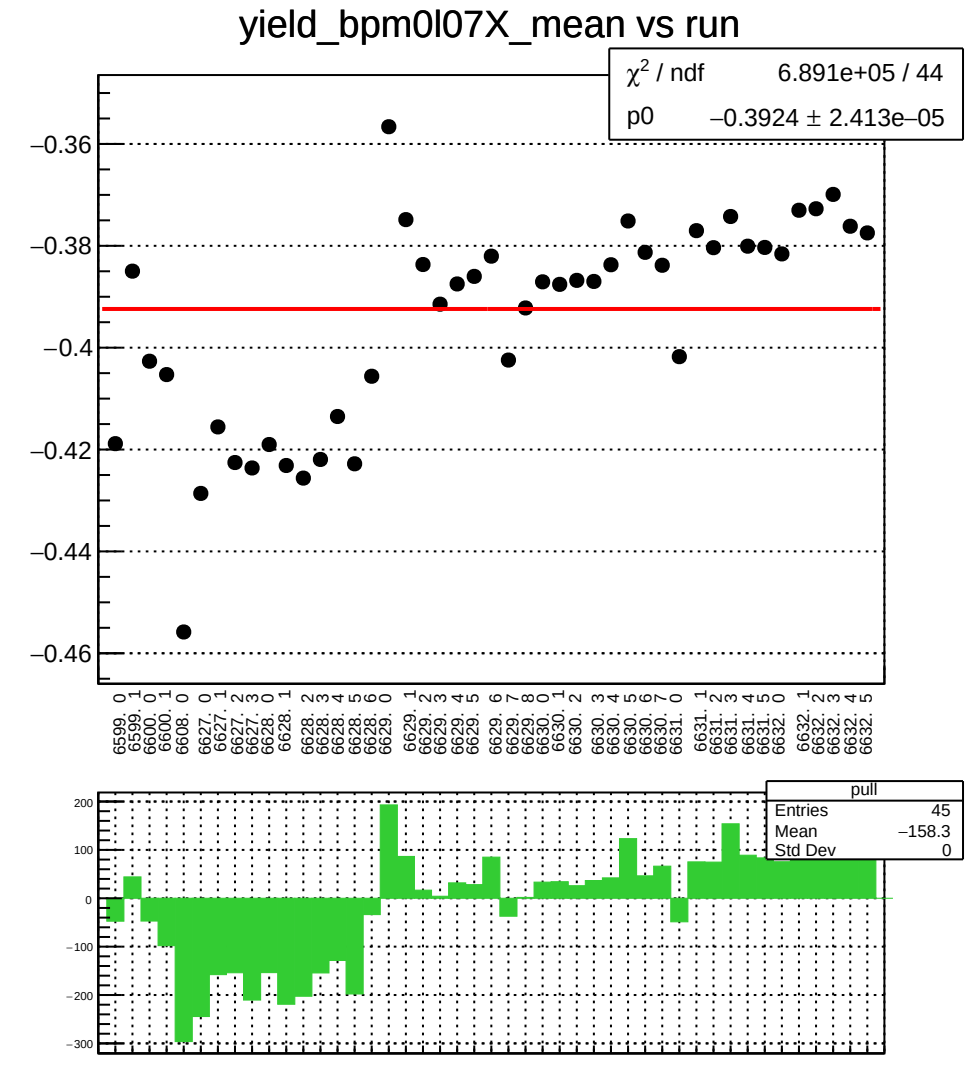

yield_bpm0l05Y_rms vs run
χ² / ndf 2.206e+05 / 44
p0 0.007884 ± 9.691e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

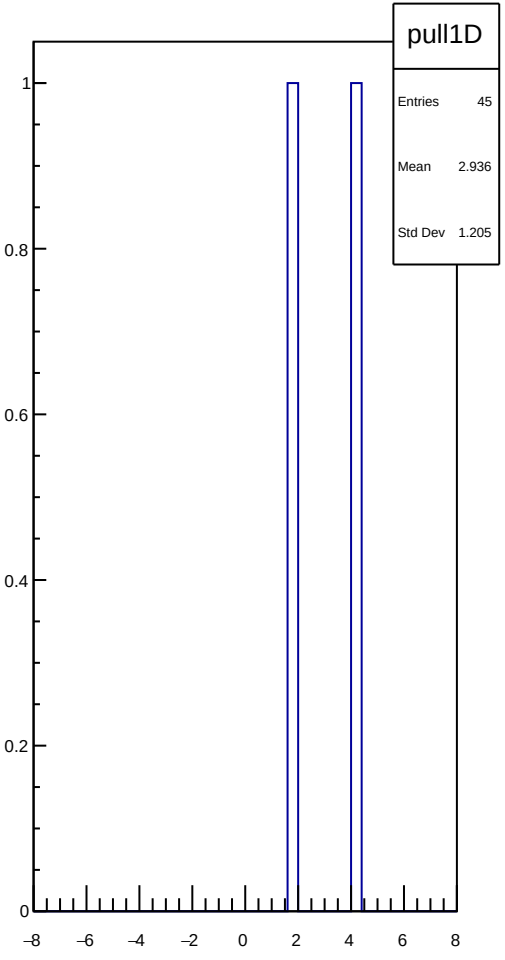

yield_bpm0l06X_mean vs run
χ² / ndf 1.07e+07 / 44
p0 1.889 ± 1.501e−05
1.94
1.92
1.9
1.88
1.86
1.84
1.82
1.8
1.78
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −139.1
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000
−1200
pull1D
Entries 45
Mean −3.636
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

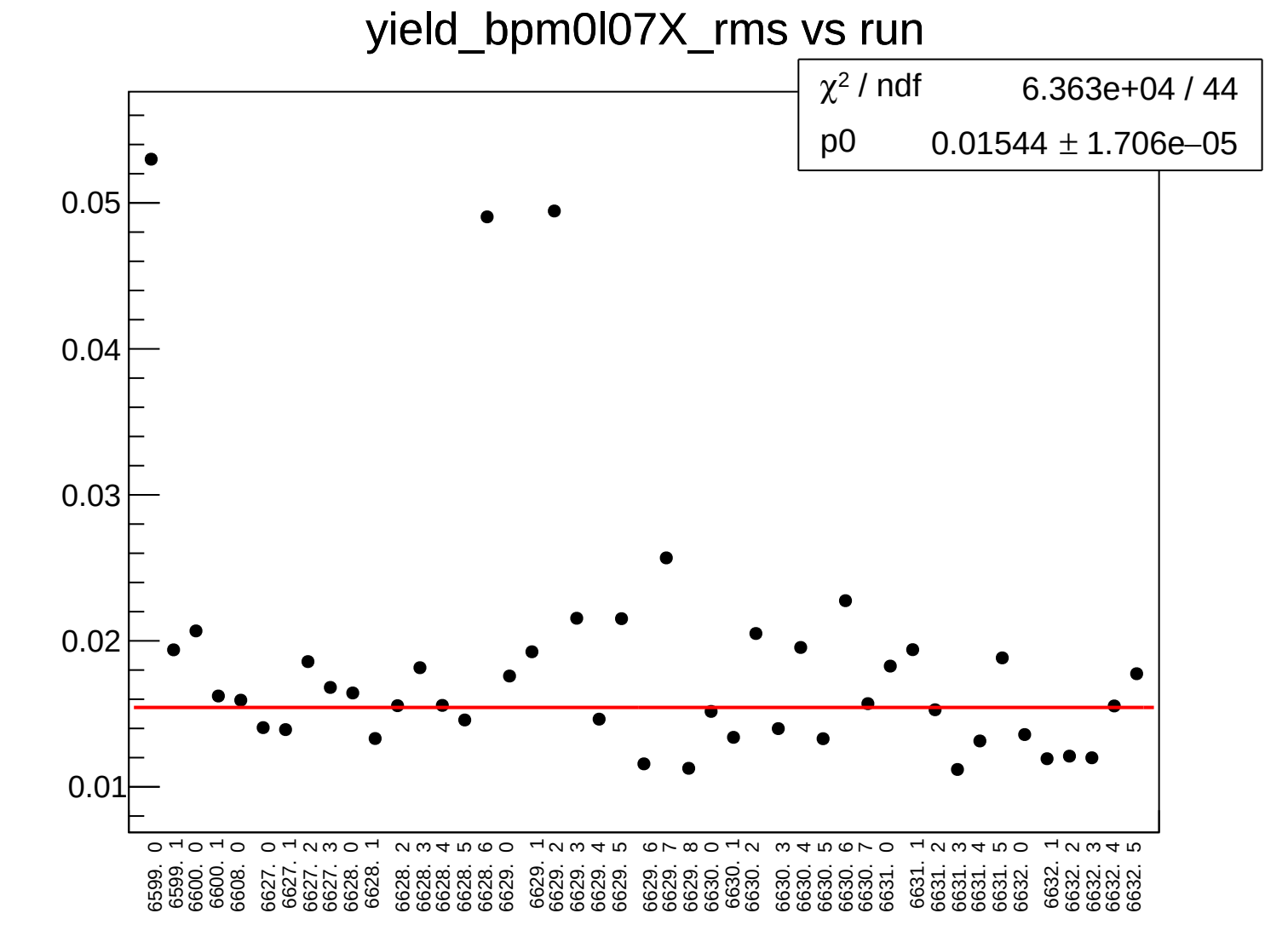

yield_bpm0l06X_rms vs run
χ² / ndf 8.03e+04 / 44
p0 0.009509 ± 1.062e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

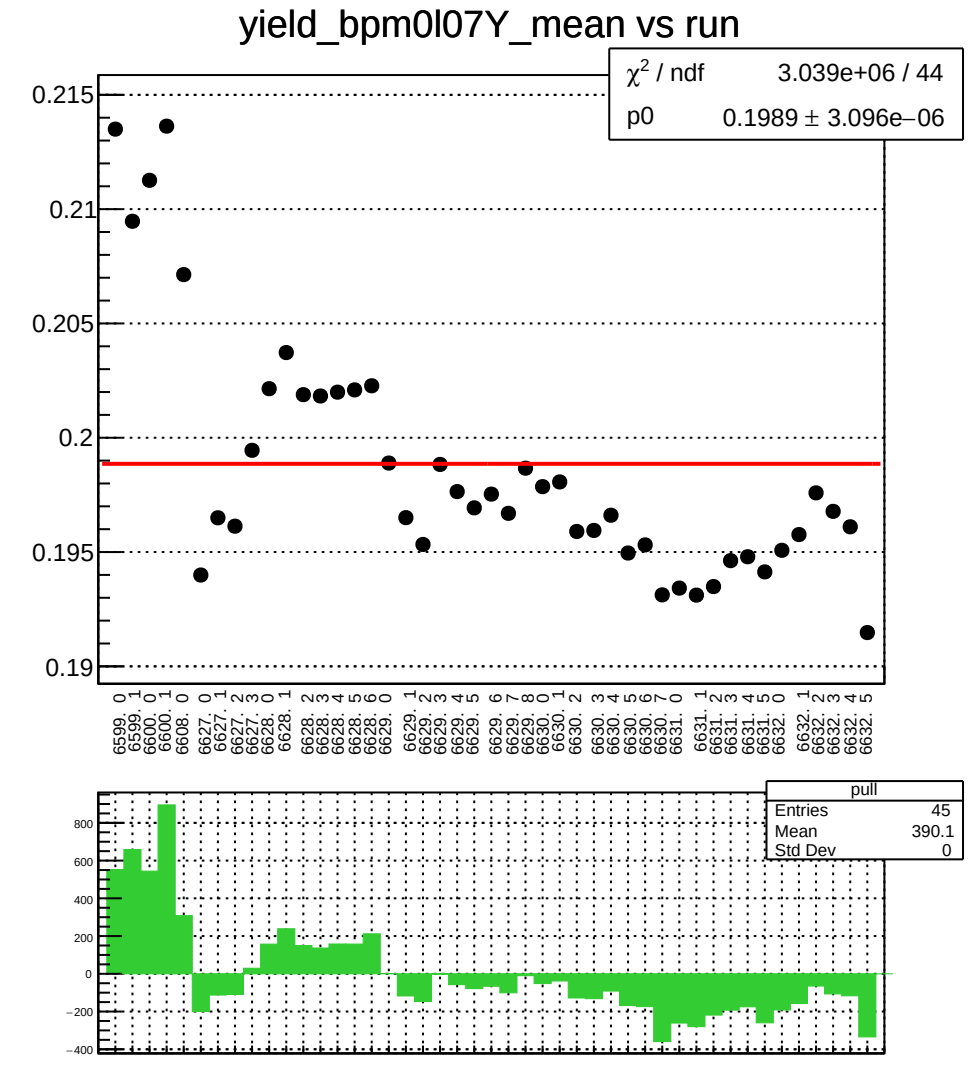

yield_bpm0l06Y_mean vs run
χ² / ndf 2.434e+06 / 44
p0 −2.291 ± 5.553e−06
−2.26
−2.27
−2.28
−2.29
−2.3
−2.31
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 69.06
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

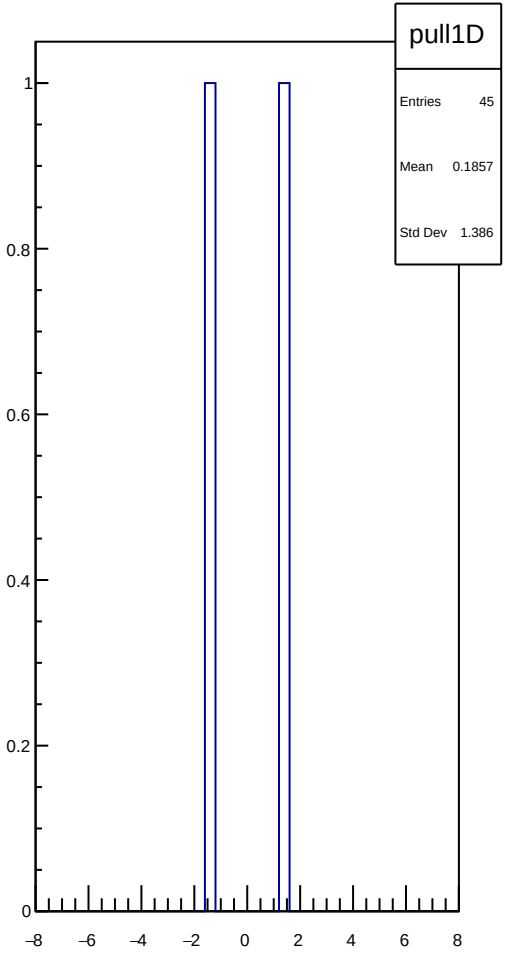

yield_bpm0l06Y_rms vs run
χ² / ndf 9.201e+04 / 44
p0 0.003491 ± 3.926e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

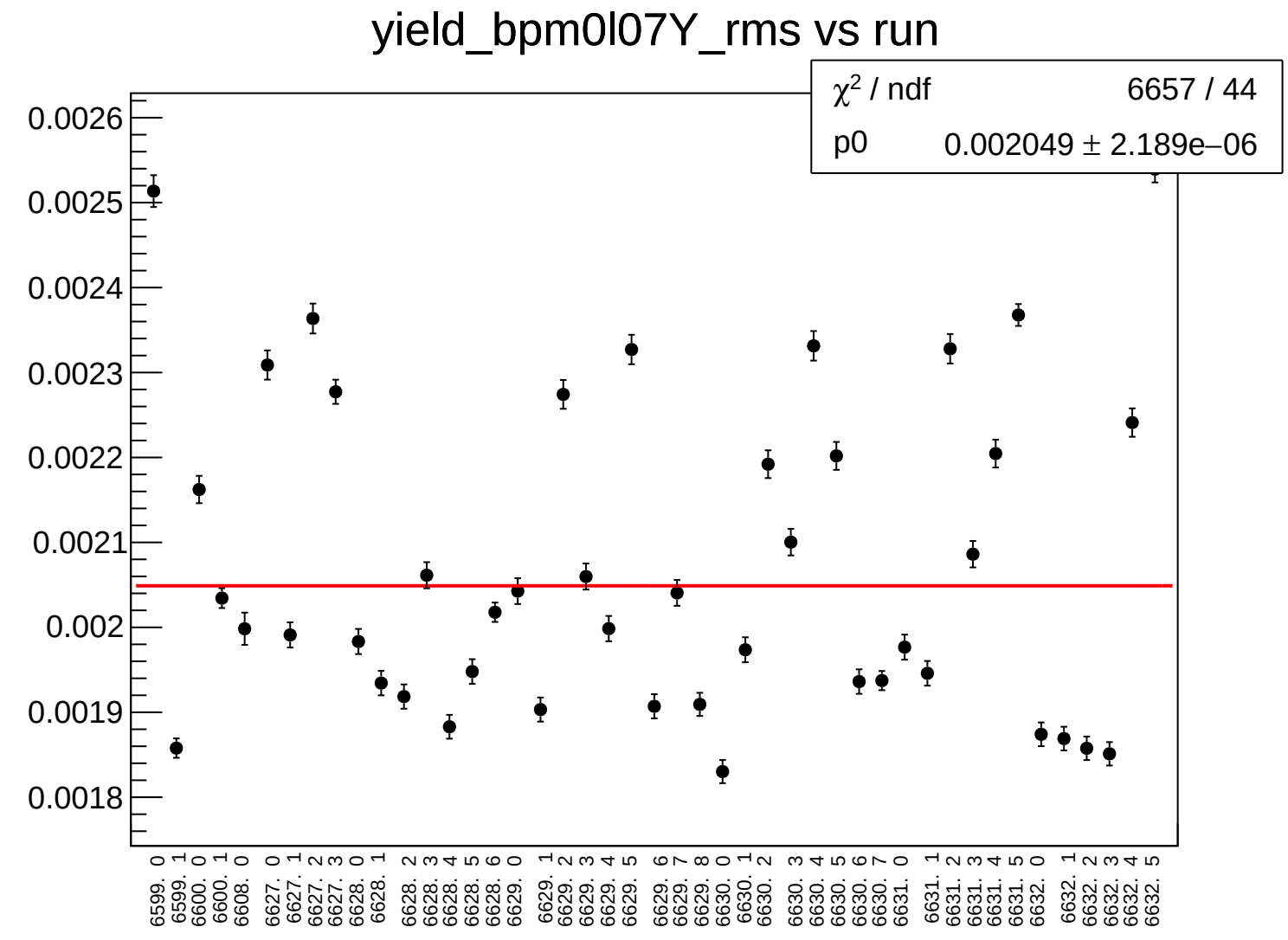

yield_bpm0l07X_mean vs run
χ² / ndf 6.891e+05 / 44
p0 −0.3924 ± 2.413e−05
−0.36
−0.38
−0.4
−0.42
−0.44
−0.46
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −158.3
Std Dev 0
200
100
0
−100
−200
−300

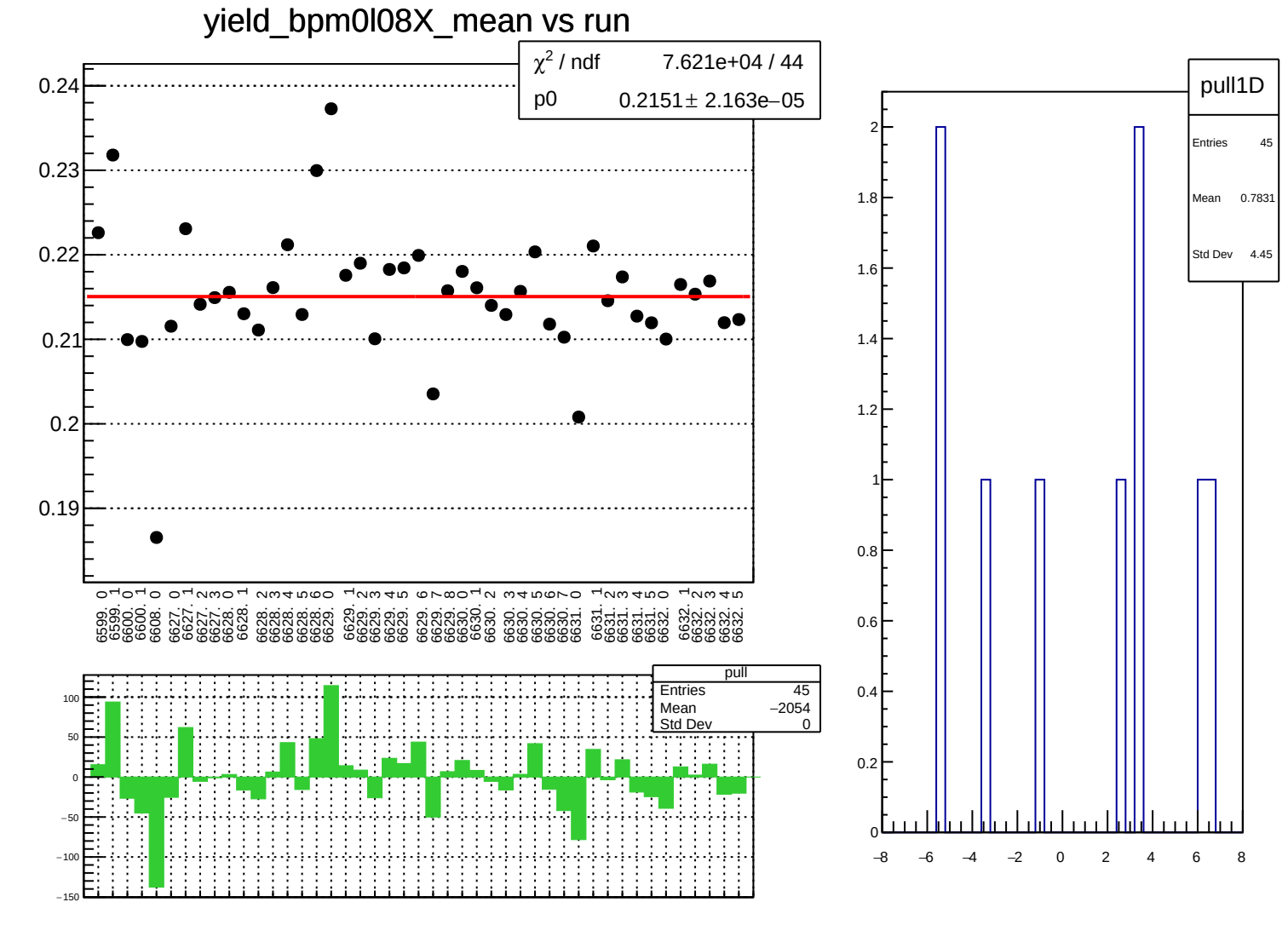

pull1D
Entries 45
Mean 2.936
Std Dev 1.205
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

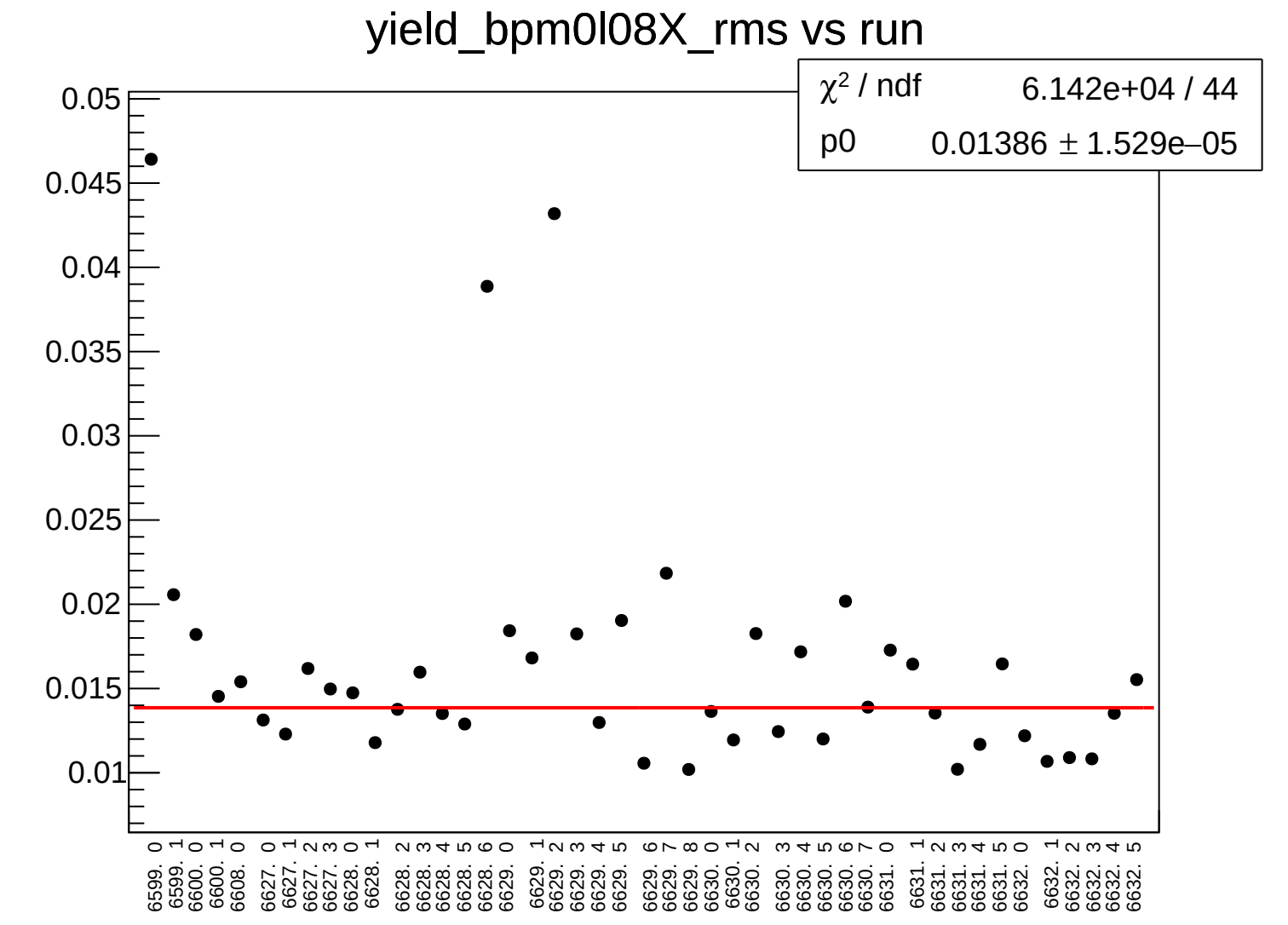

yield_bpm0l07X_rms vs run
χ² / ndf 6.363e+04 / 44
p0 0.01544 ± 1.706e–05
0.05
0.04
0.03
0.02
0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


yield_bpm0l07Y_mean vs run
χ² / ndf 3.039e+06 / 44
p0 0.1989 ± 3.096e−06
0.215
0.21
0.205
0.2
0.195
0.19
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 390.1
Std Dev 0
800
600
400
200
0
−200
−400


pull1D
Entries 45
Mean 0.1857
Std Dev 1.386
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 6657 / 44
p0 0.002049 ± 2.189e−06
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


yield_bpm0l08X_mean vs run
χ² / ndf 7.621e+04 / 44
p0 0.2151 ± 2.163e−05
0.24
0.23
0.22
0.21
0.2
0.19
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −2054
Std Dev 0
100
50
0
−50
−100
−150
pull1D
Entries 45
Mean 0.7831
Std Dev 4.45
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 6.142e+04 / 44
p0 0.01386 ± 1.529e–05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
6632. 0
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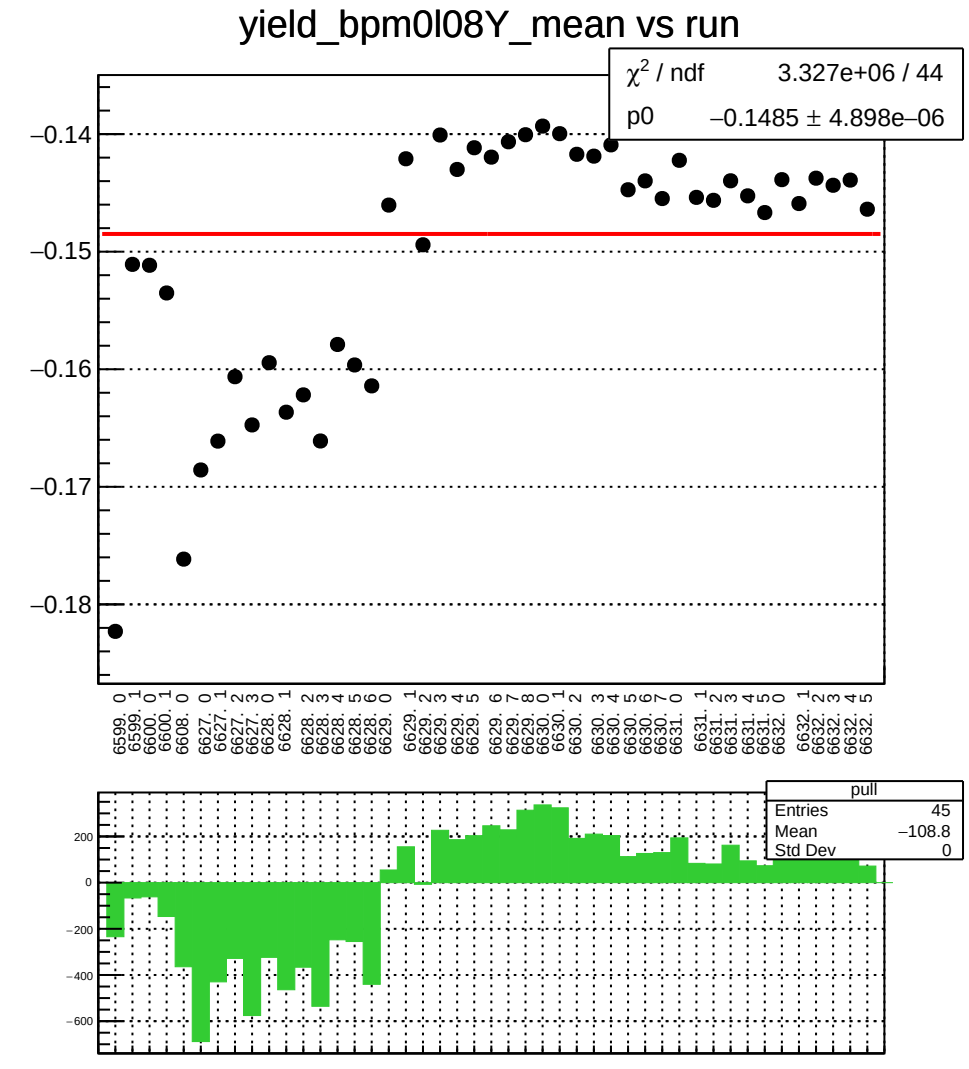
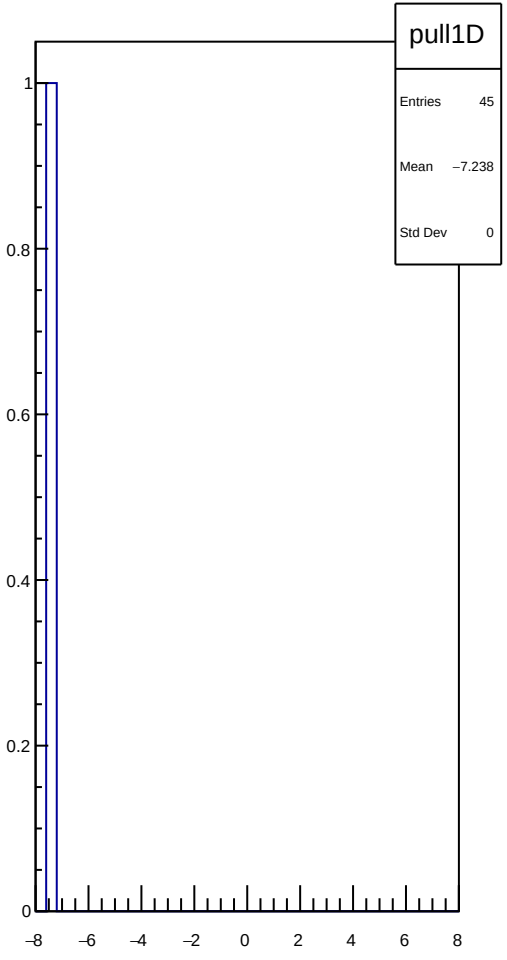
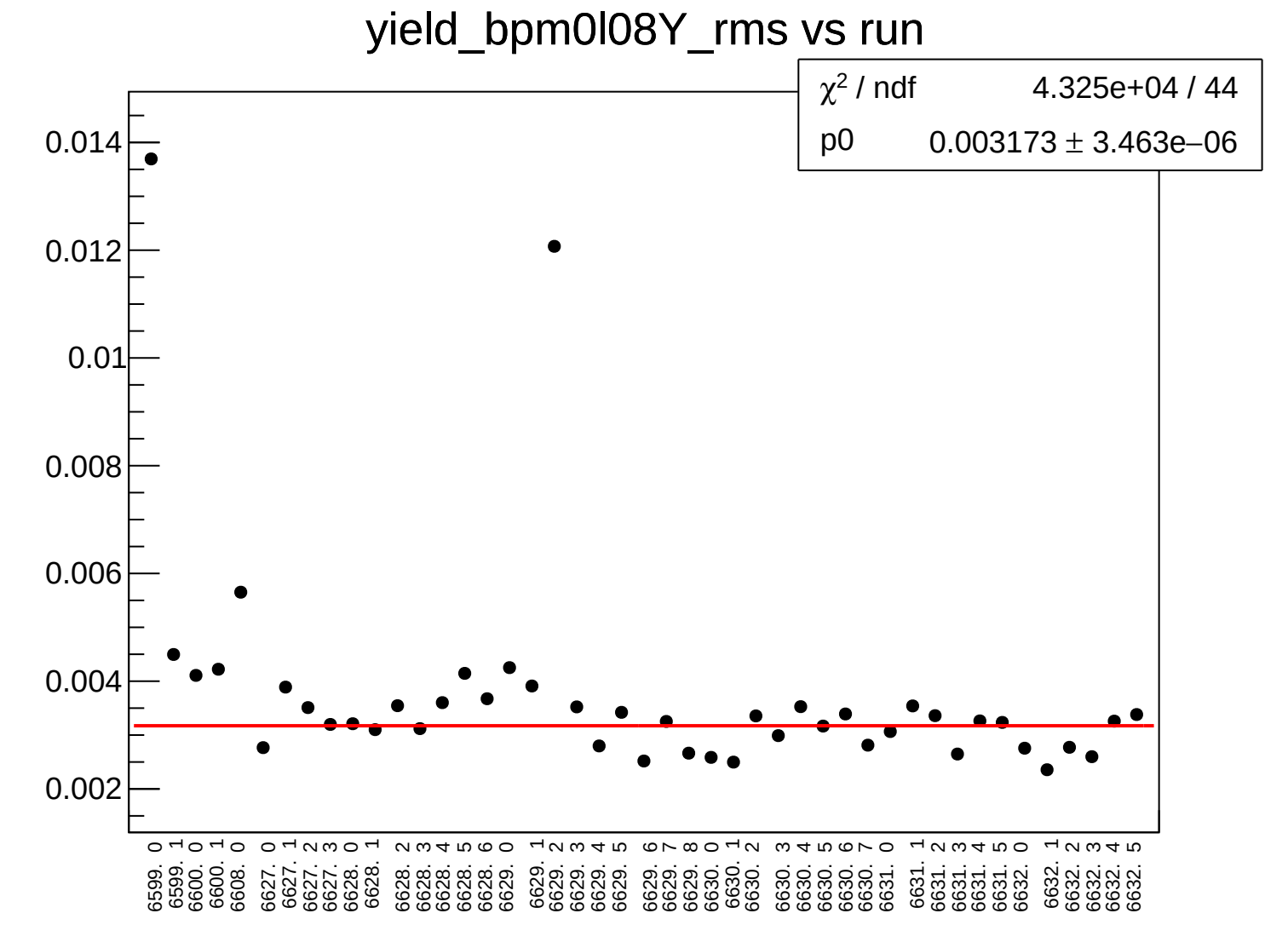
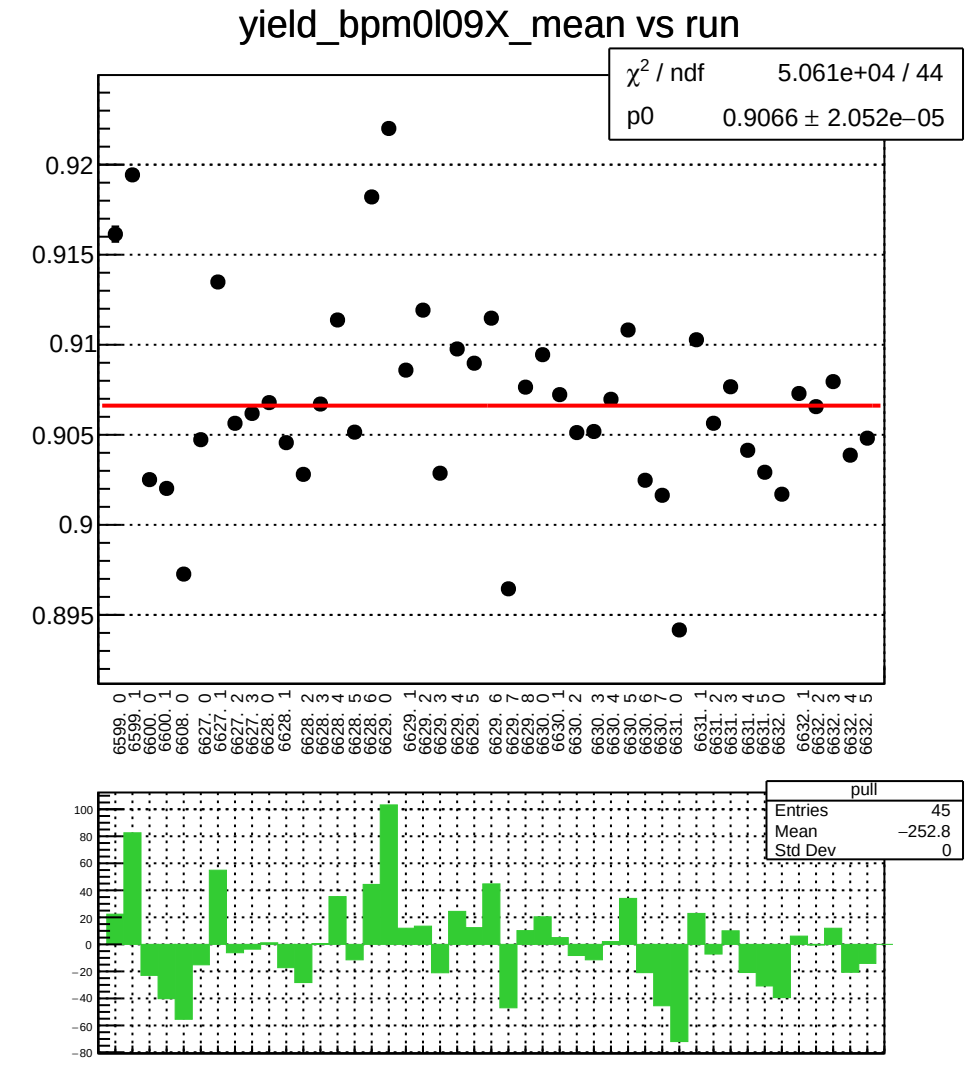
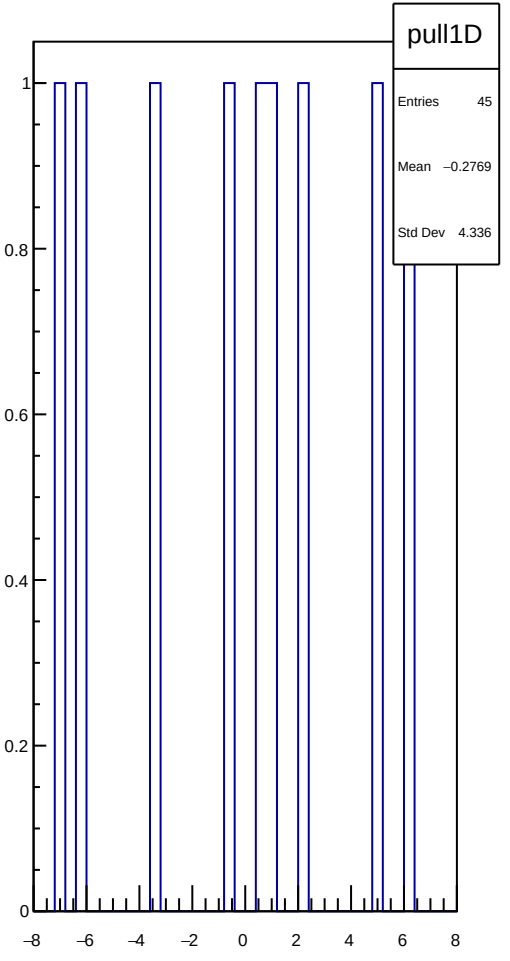
6632. 2
6632. 3
6632. 4
6632. 5

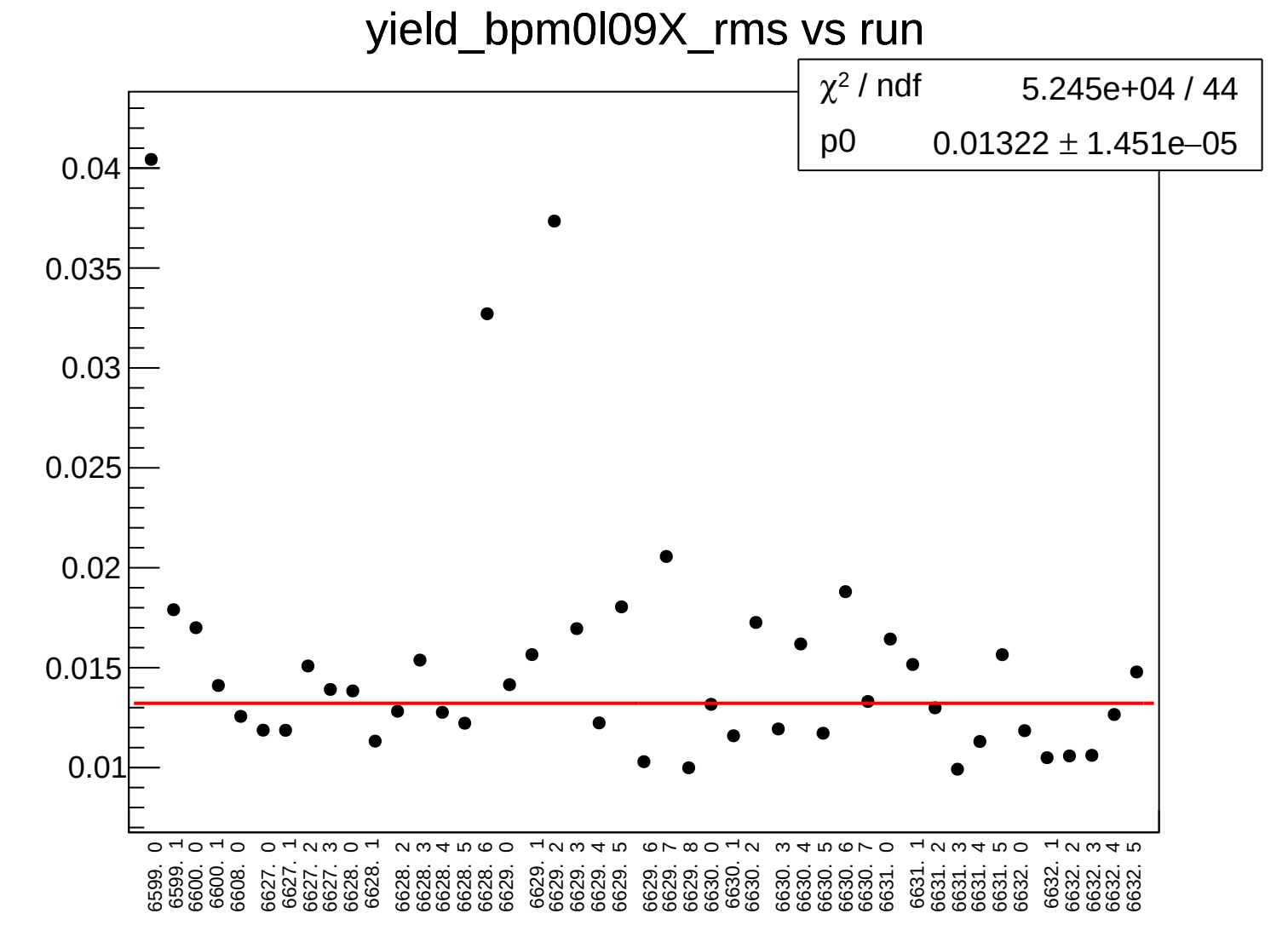

yield_bpm0l08Y_mean vs run
χ² / ndf 3.327e+06 / 44
p0 −0.1485 ± 4.898e−06
−0.14
−0.15
−0.16
−0.17
−0.18
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −108.8
Std Dev 0
200
0
−200
−400
−600


pull1D
Entries 45
Mean −7.238
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0l08Y_rms vs run
χ² / ndf 4.325e+04 / 44
p0 0.003173 ± 3.463e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


yield_bpm0l09X_mean vs run
χ² / ndf 5.061e+04 / 44
p0 0.9066 ± 2.052e−05
0.92
0.915
0.91
0.905
0.9
0.895
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −252.8
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80


pull1D
Entries 45
Mean −0.2769
Std Dev 4.336
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 5.245e+04 / 44
p0 0.01322 ± 1.451e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
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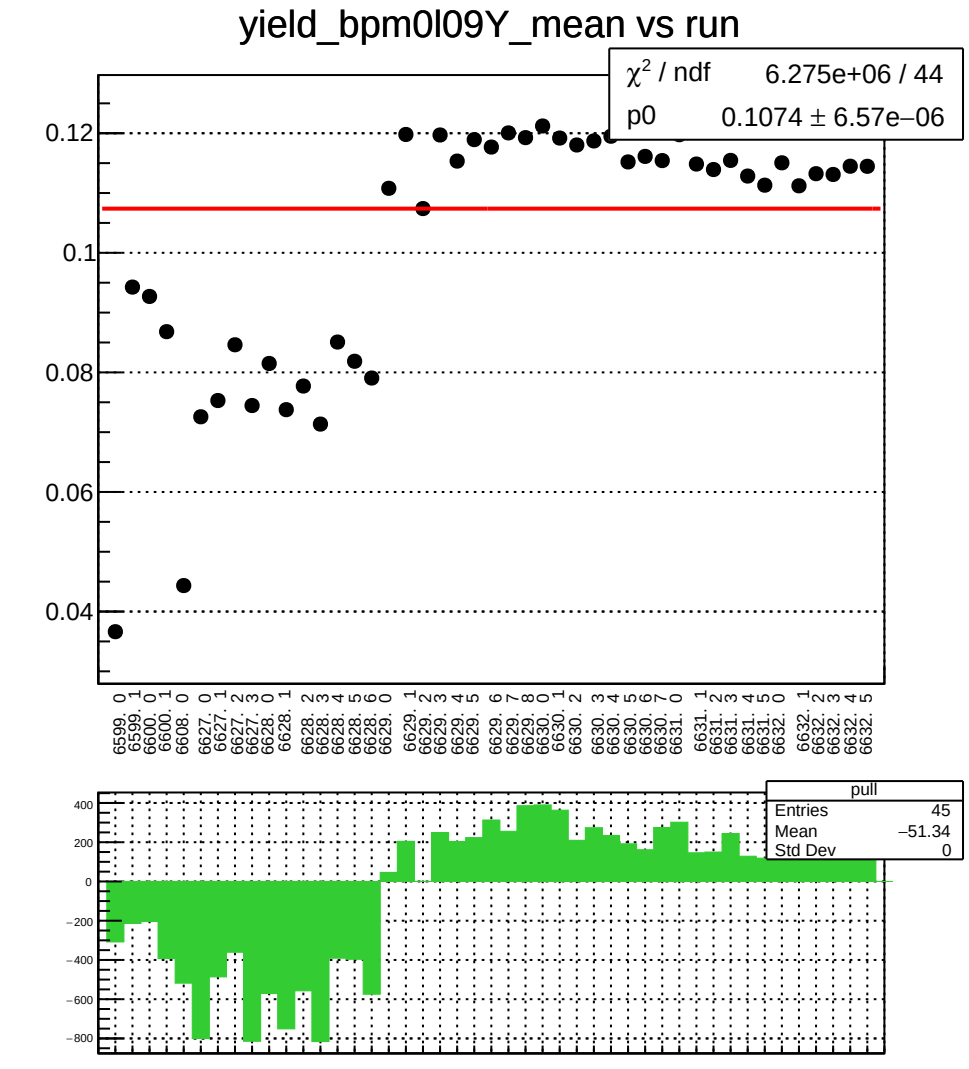
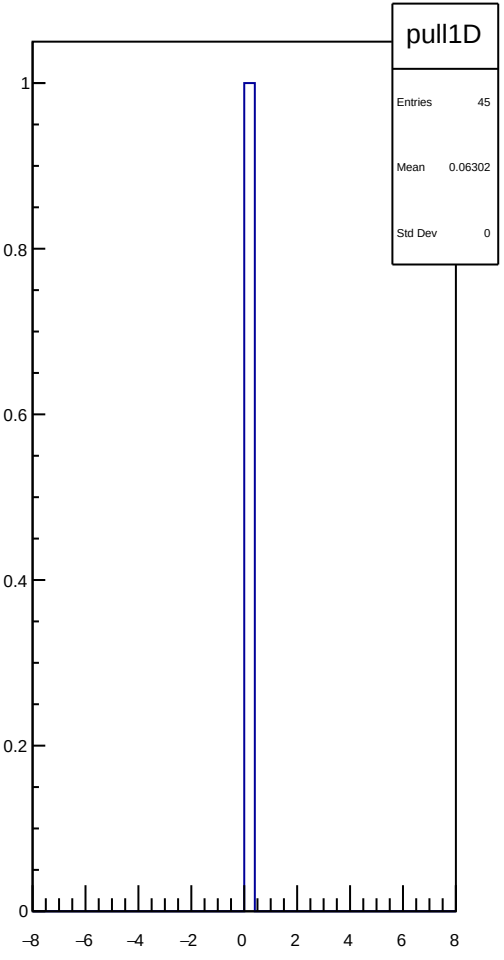
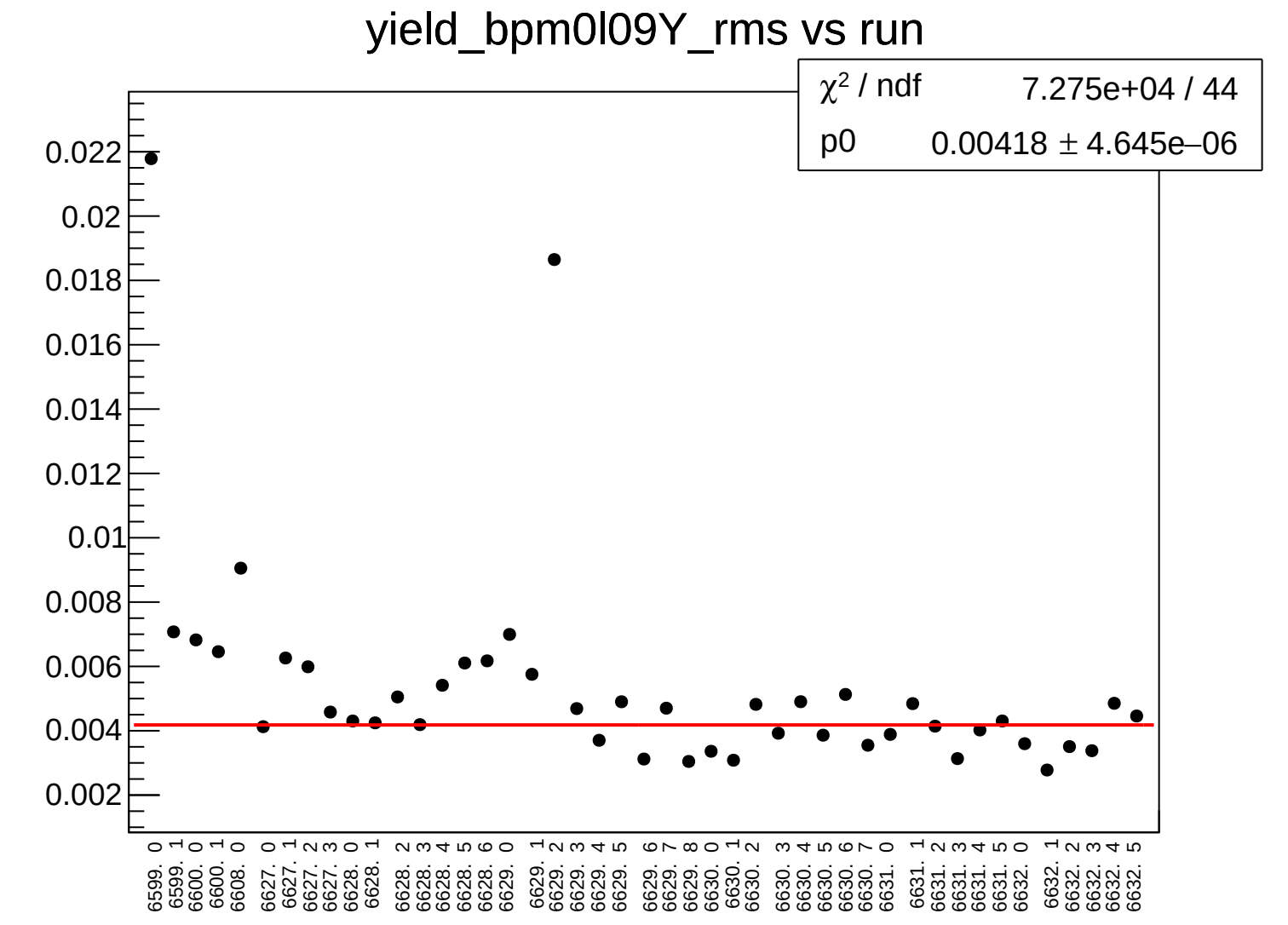
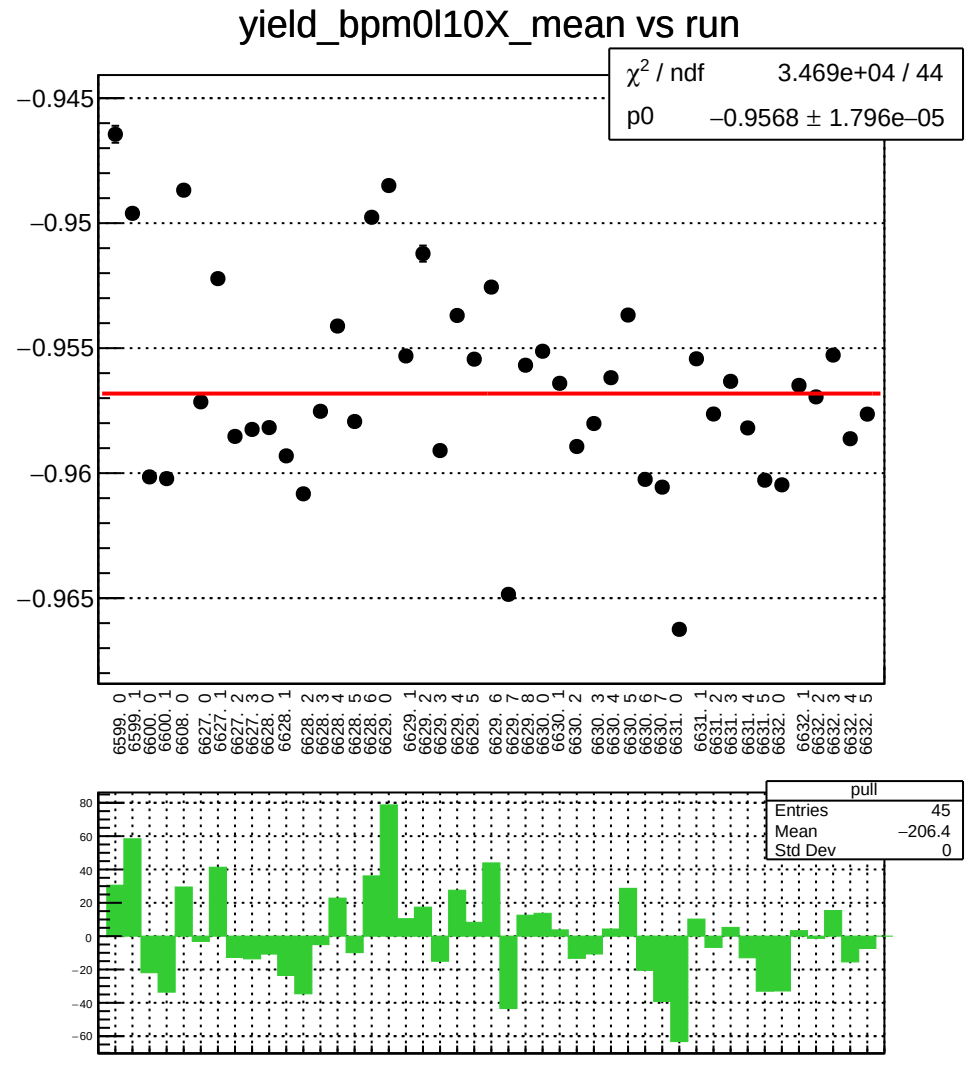
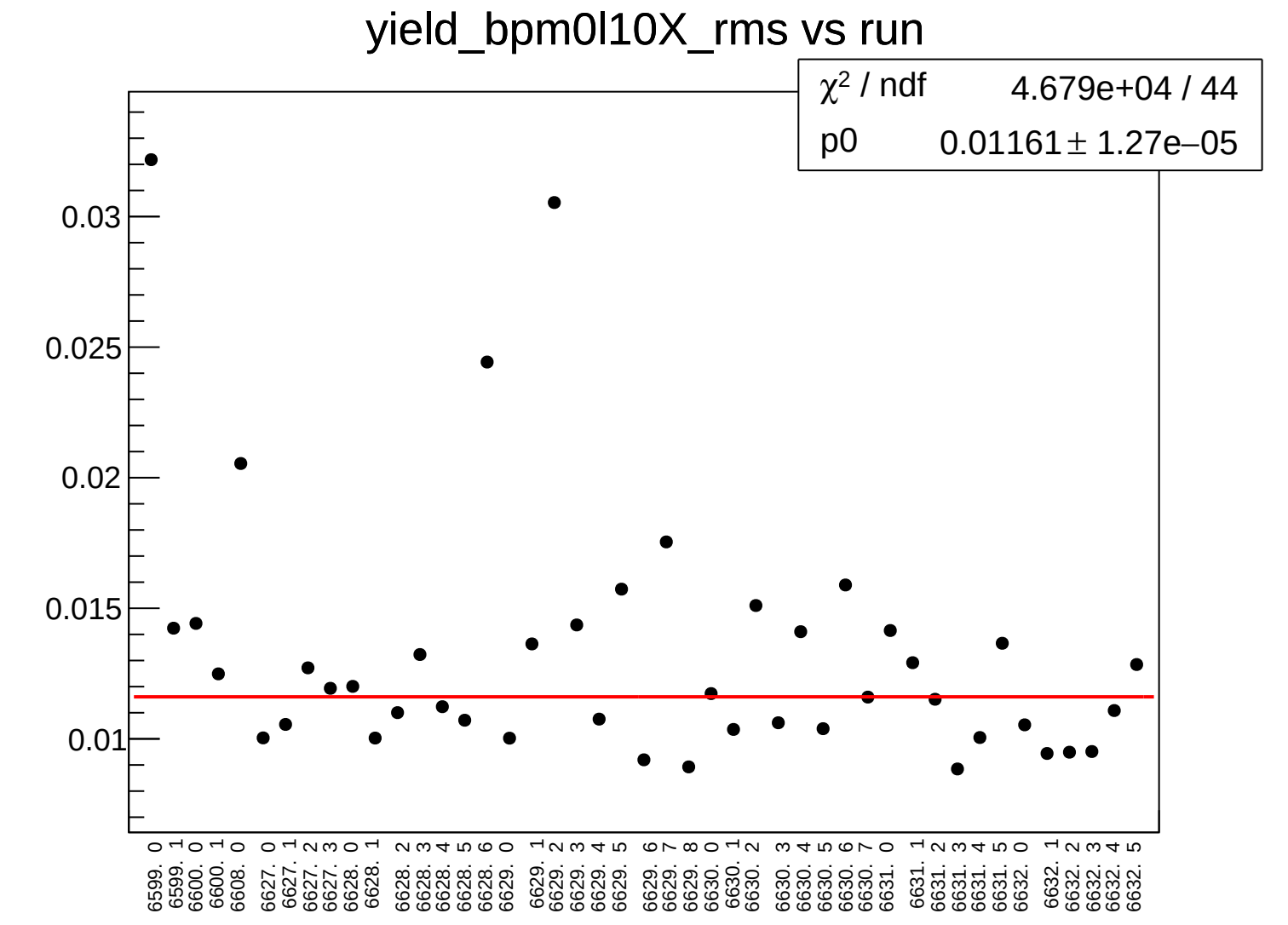
6632. 5

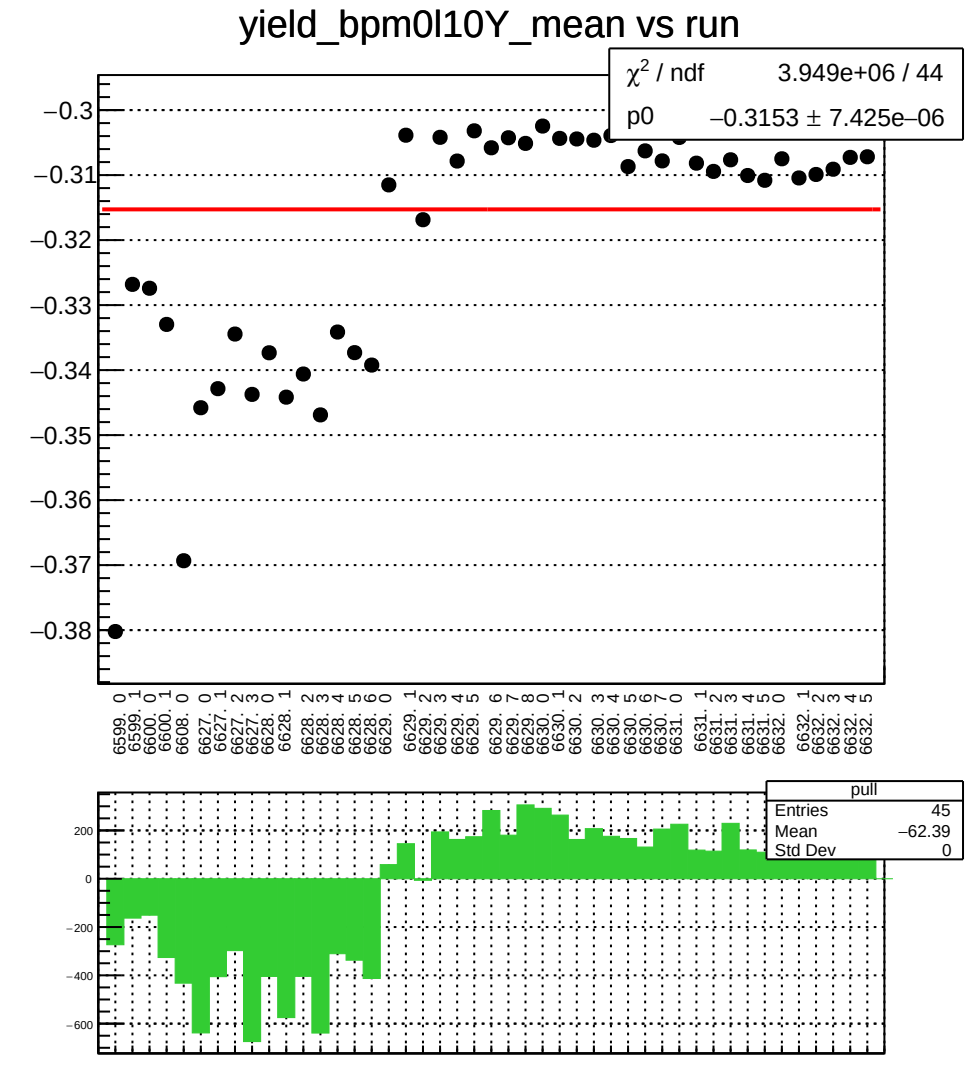

yield_bpm0l09Y_mean vs run
χ² / ndf 6.275e+06 / 44
p0 0.1074 ± 6.57e−06
0.12
0.1
0.08
0.06
0.04
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −51.34
Std Dev 0
400
200
0
−200
−400
−600
−800

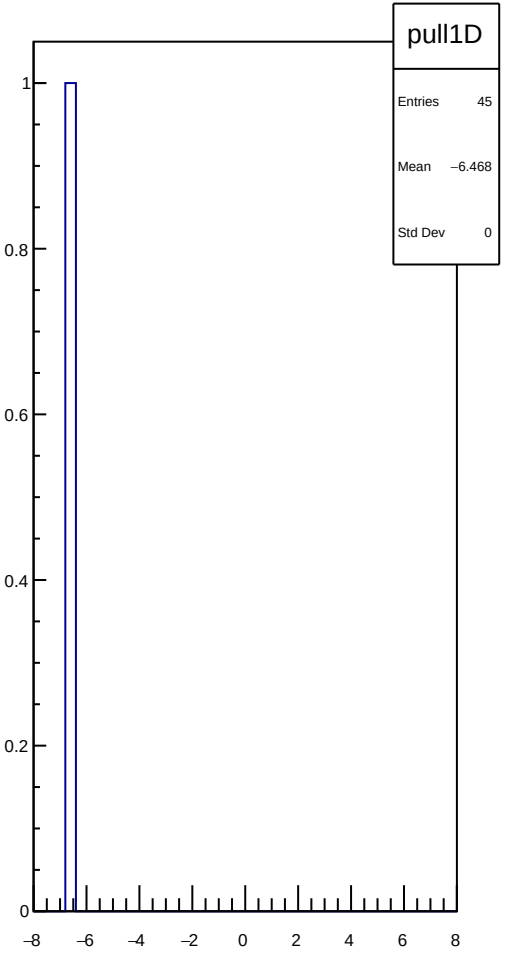

pull1D
Entries 45
Mean 0.06302
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

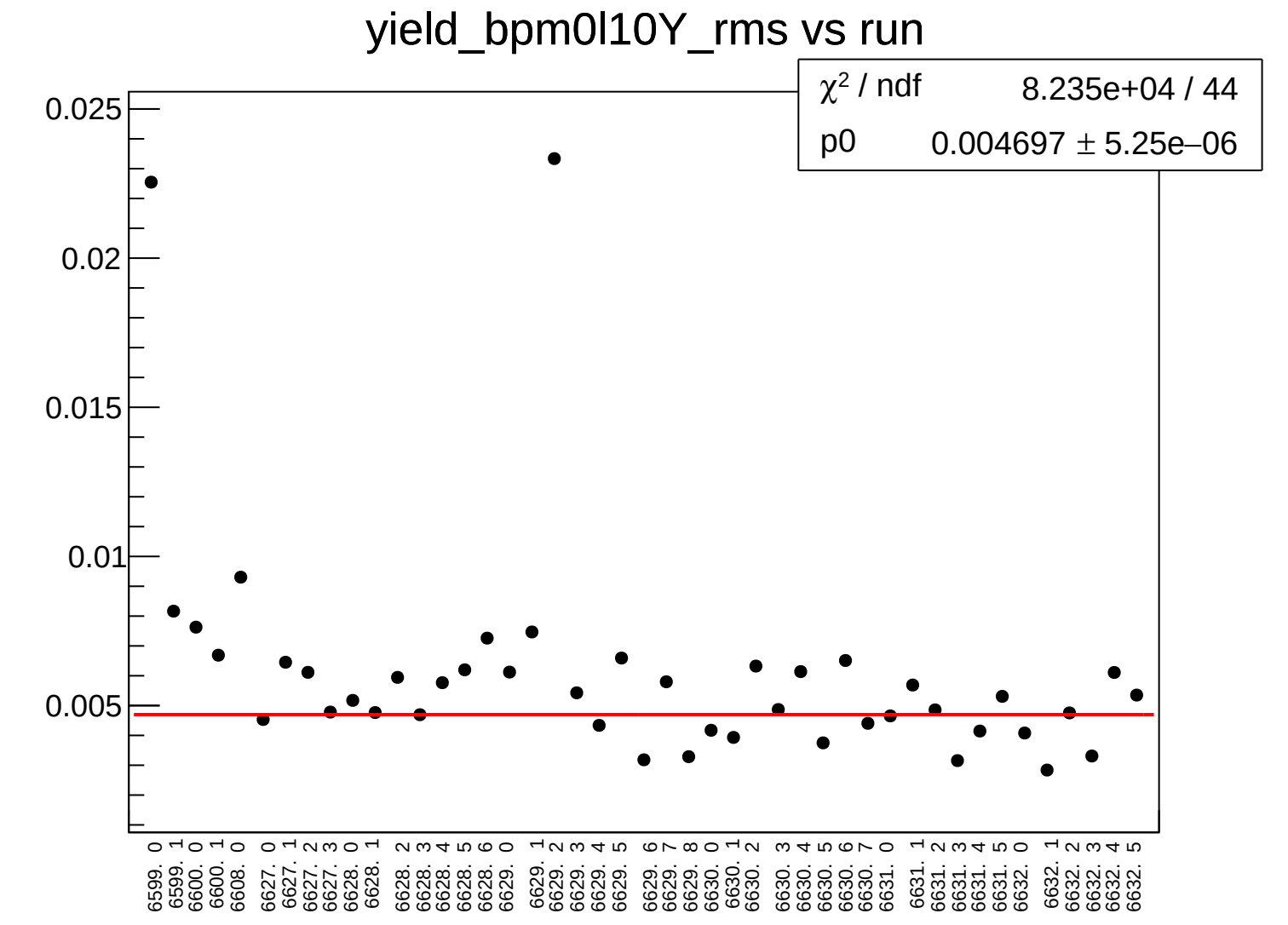

yield_bpm0l09Y_rms vs run
χ² / ndf 7.275e+04 / 44
p0 0.00418 ± 4.645e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


yield_bpm0l10X_mean vs run
χ² / ndf 3.469e+04 / 44
p0 −0.9568 ± 1.796e−05
−0.945
−0.95
−0.955
−0.96
−0.965
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −206.4
Std Dev 0
80
60
40
20
0
−20
−40
−60
pull1D
Entries 45
Mean −0.7879
Std Dev 4.741
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 4.679e+04 / 44
p0 0.01161 ± 1.27e−05
0.03
0.025
0.02
0.015
0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


yield_bpm0l10Y_mean vs run
χ² / ndf 3.949e+06 / 44
p0 −0.3153 ± 7.425e−06
−0.3
−0.31
−0.32
−0.33
−0.34
−0.35
−0.36
−0.37
−0.38
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −62.39
Std Dev 0
200
0
−200
−400
−600


pull1D
Entries 45
Mean −6.468
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0l10Y_rms vs run
χ² / ndf 8.235e+04 / 44
p0 0.004697 ± 5.25e−06
0.025
0.02
0.015
0.01
0.005
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
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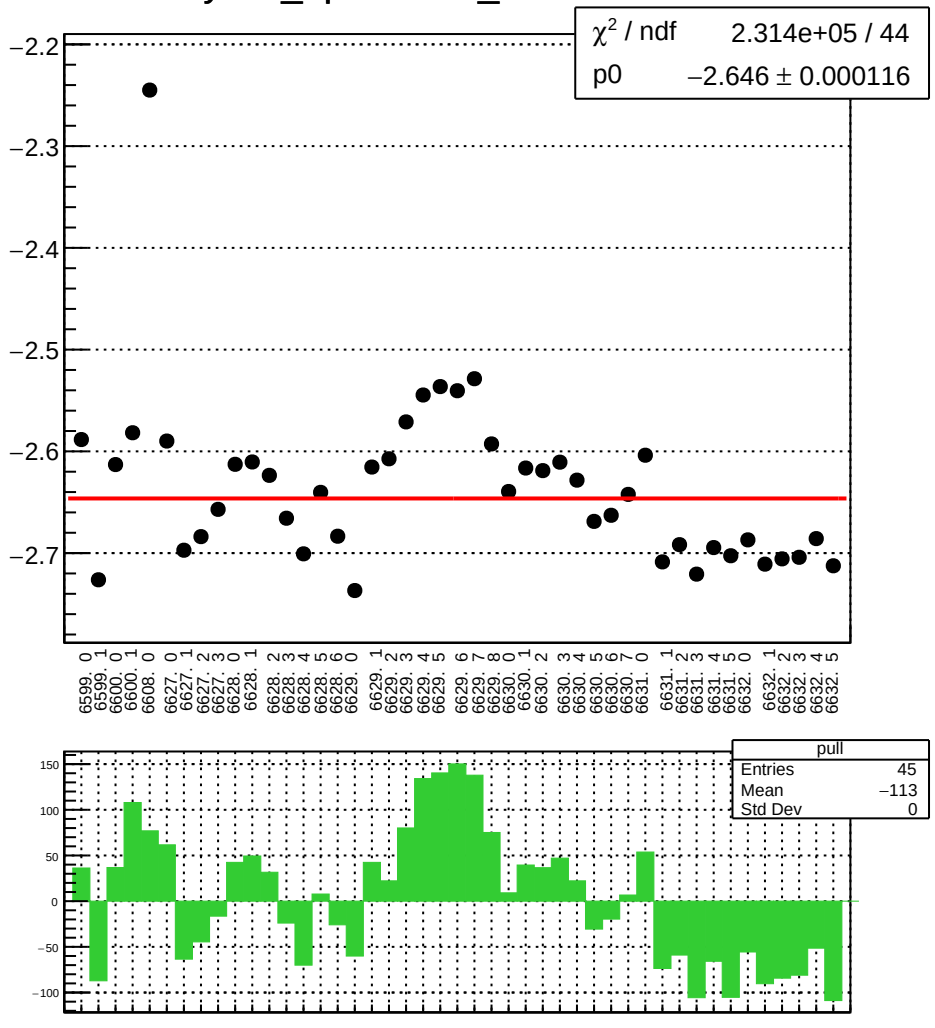
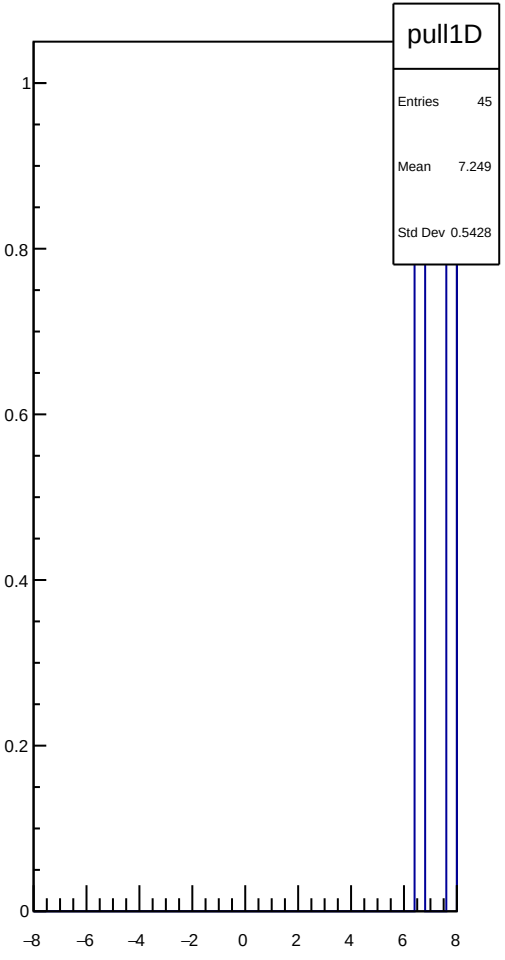
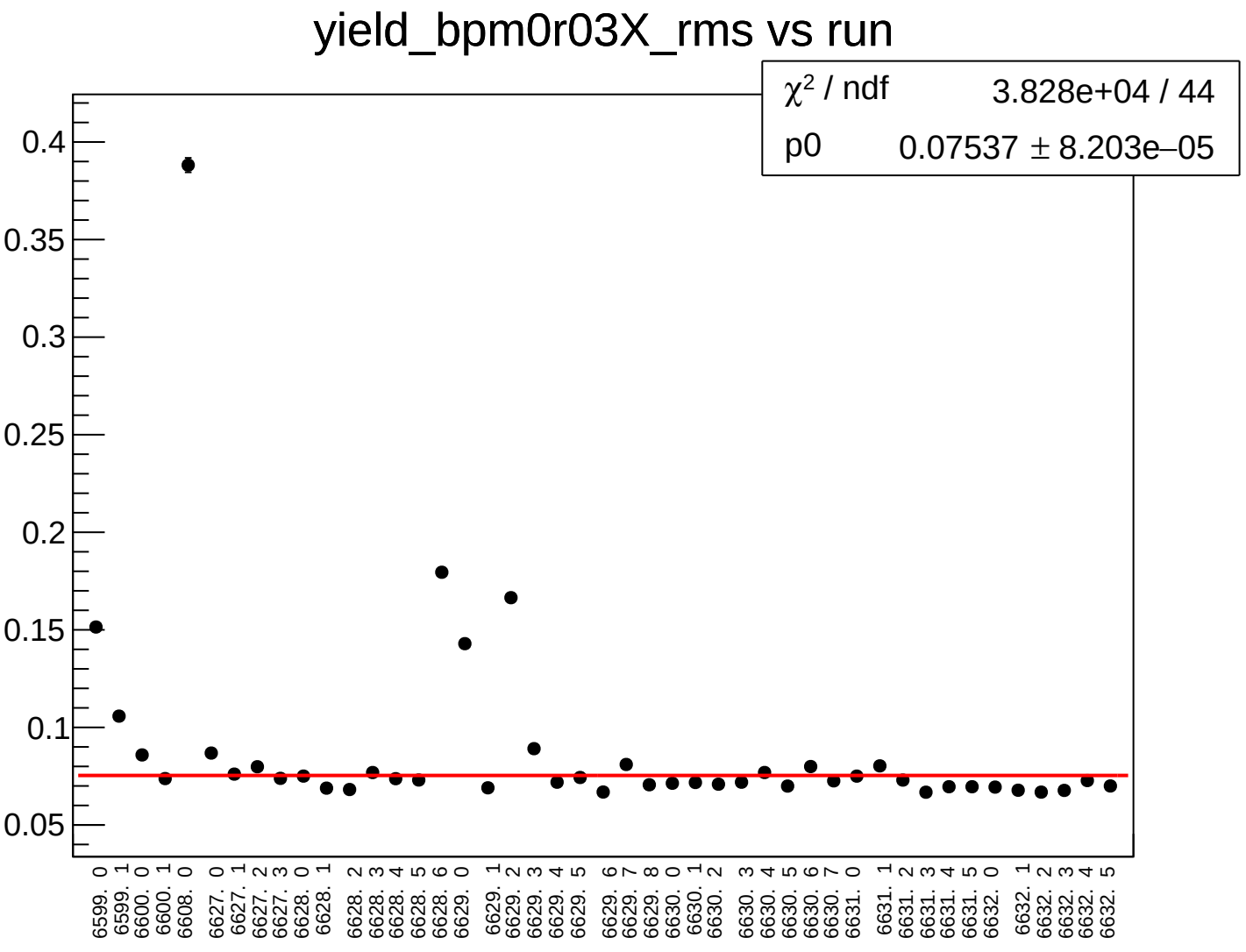
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


yield_bpm0r03X_mean vs run
χ² / ndf 2.314e+05 / 44
p0 −2.646 ± 0.000116
−2.2
−2.3
−2.4
−2.5
−2.6
−2.7
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −113
Std Dev 0
150
100
50
0
−50
−100


pull1D
Entries 45
Mean 7.249
Std Dev 0.5428
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 3.828e+04 / 44
p0 0.07537 ± 8.203e–05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
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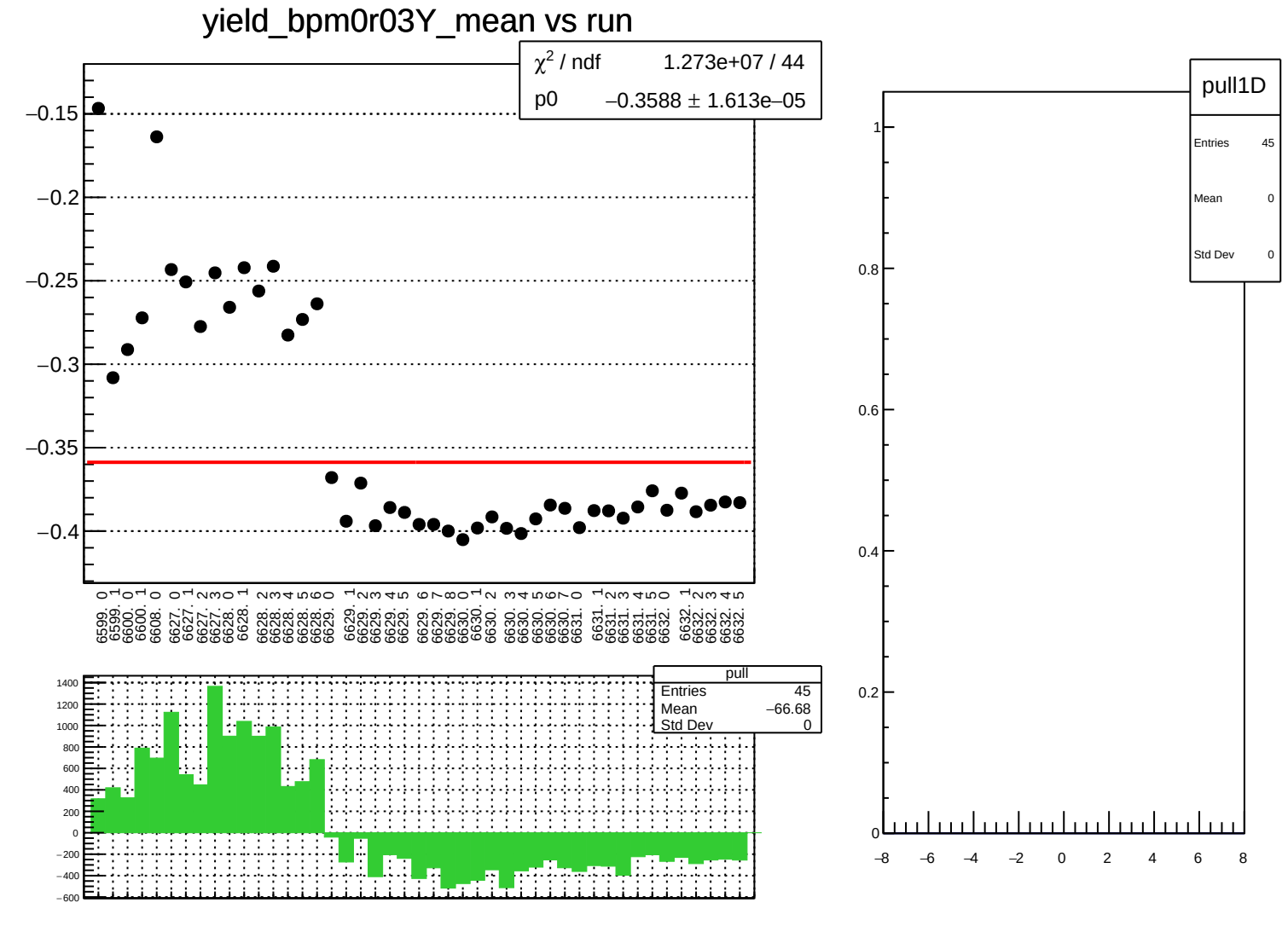
6632. 5


yield_bpm0r03Y_mean vs run
χ² / ndf 1.273e+07 / 44
p0 −0.3588 ± 1.613e−05
−0.15
−0.2
−0.25
−0.3
−0.35
−0.4
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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6628. 6
6629. 0
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6629. 2
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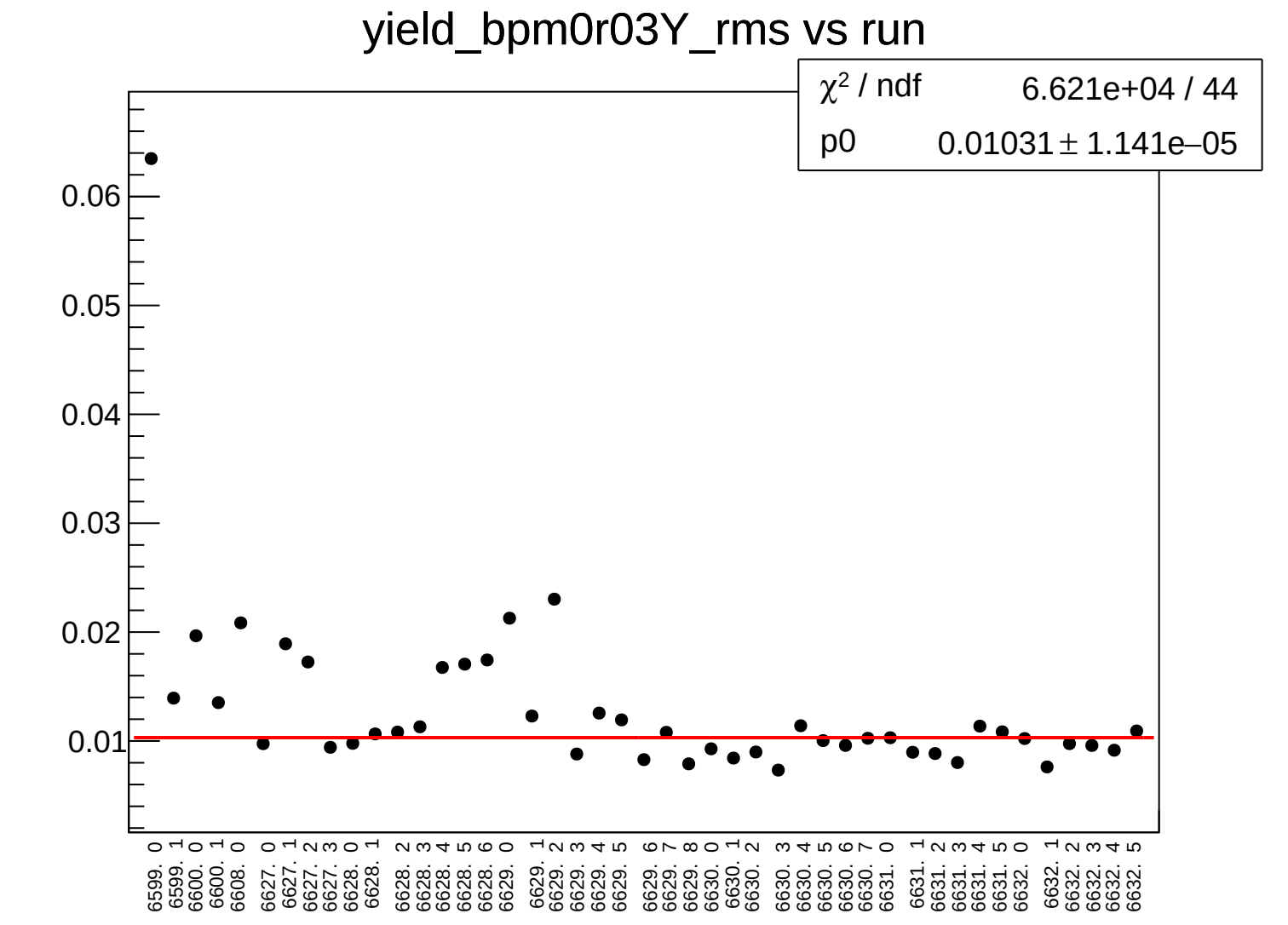
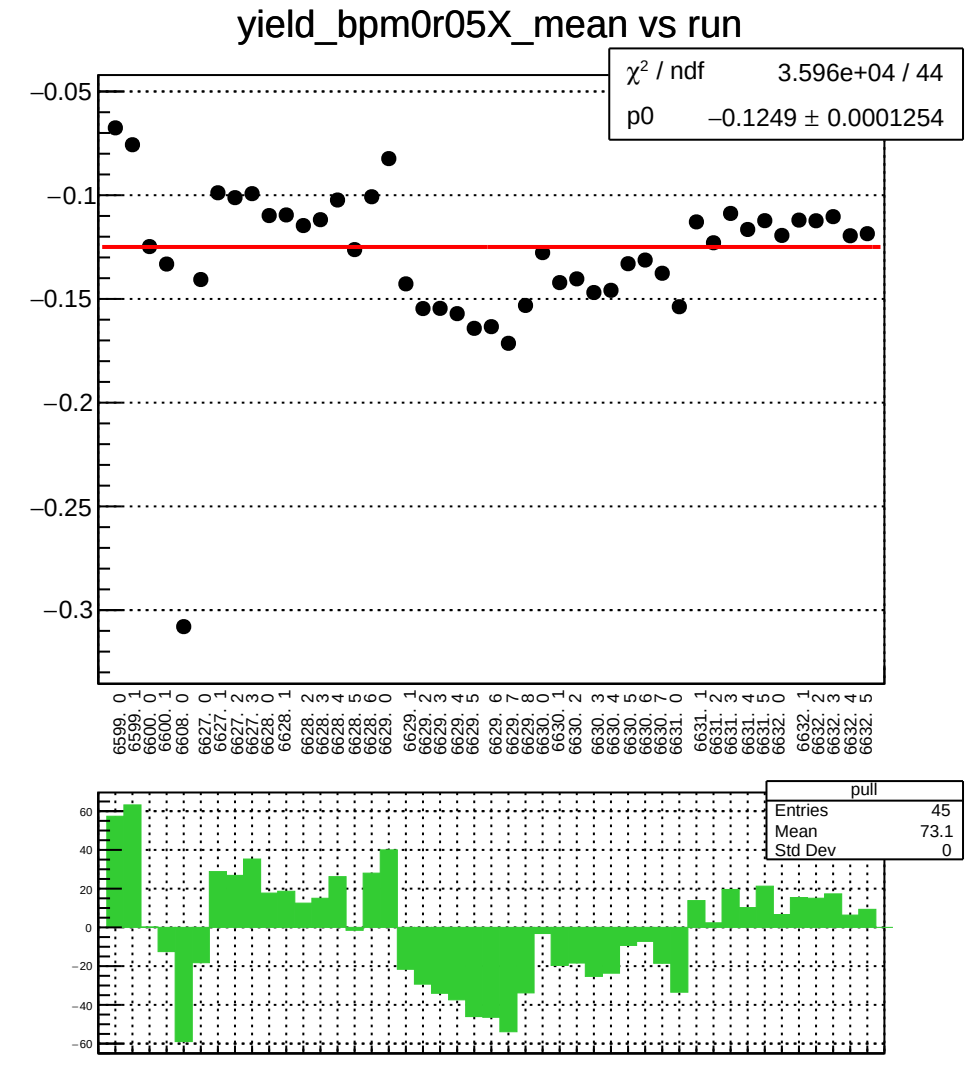
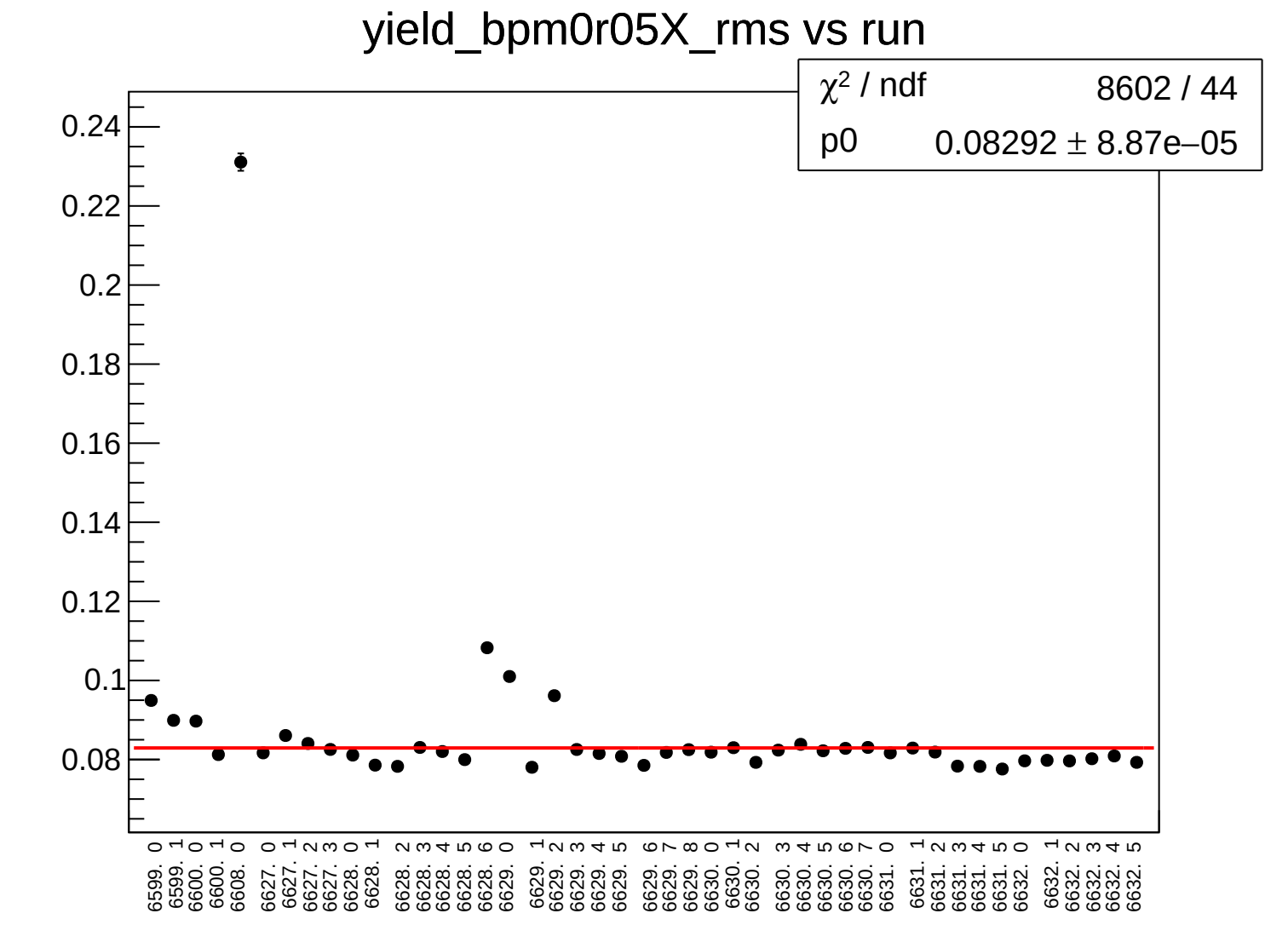
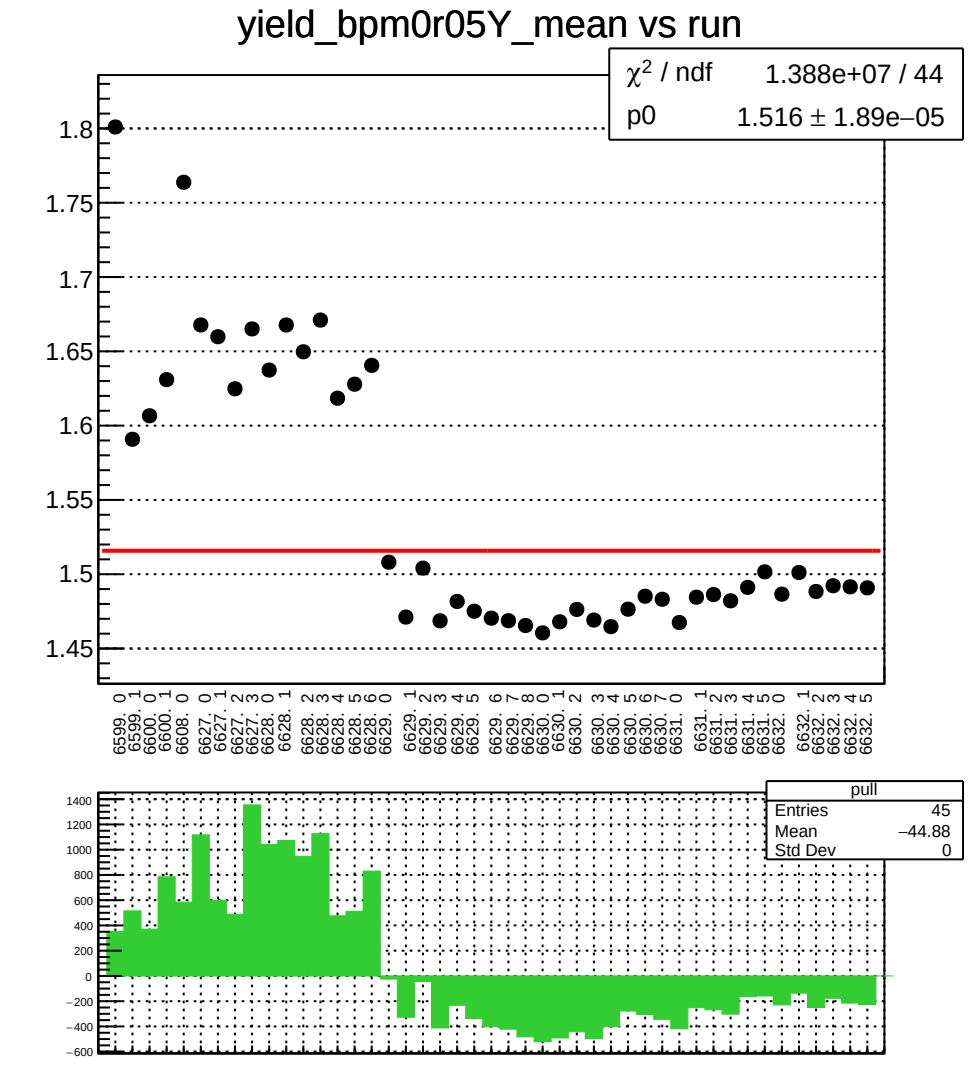
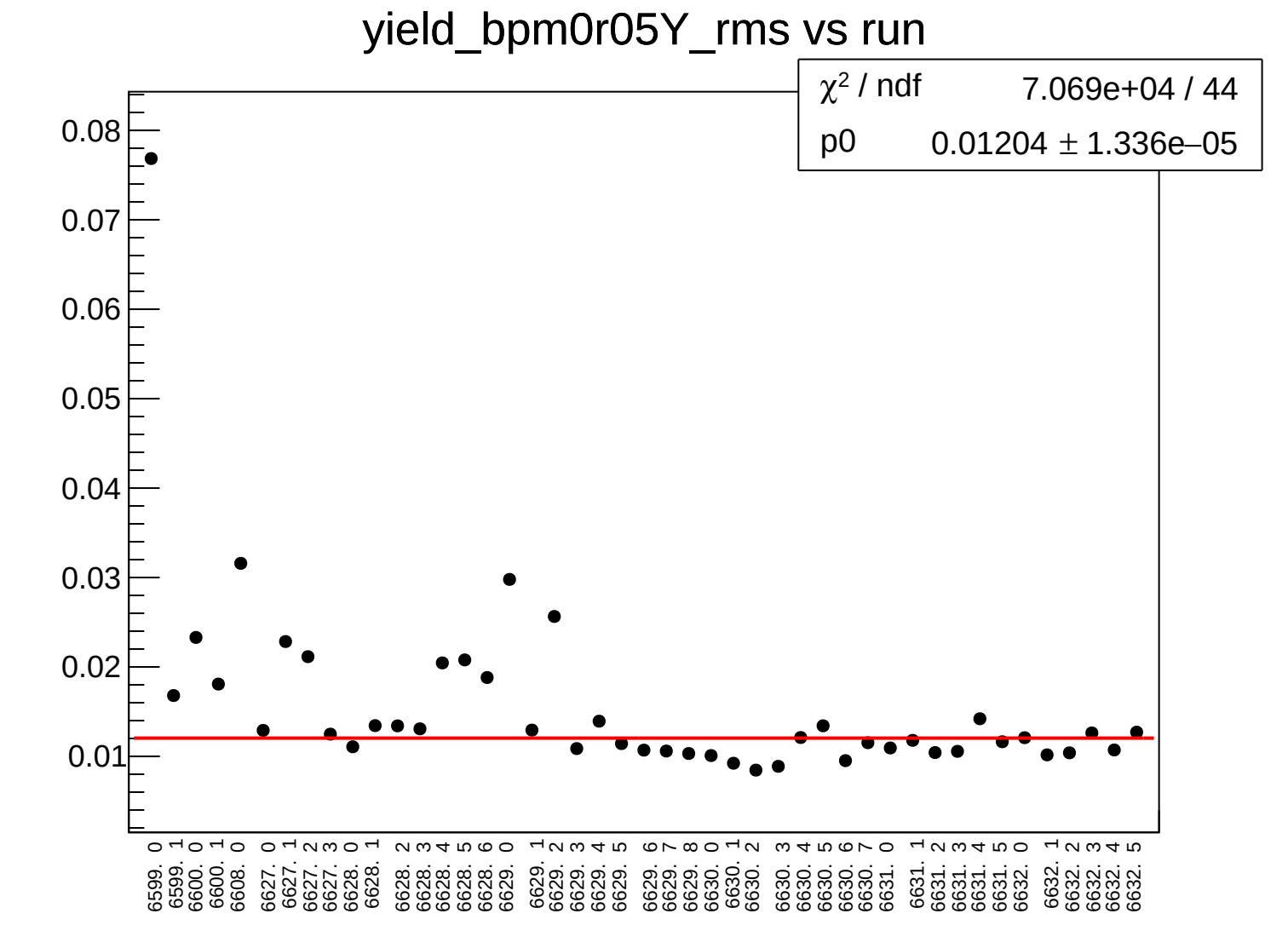
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −66.68
Std Dev 0
1400
1200
1000
800
600
400
200
0
−200
−400
−600
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

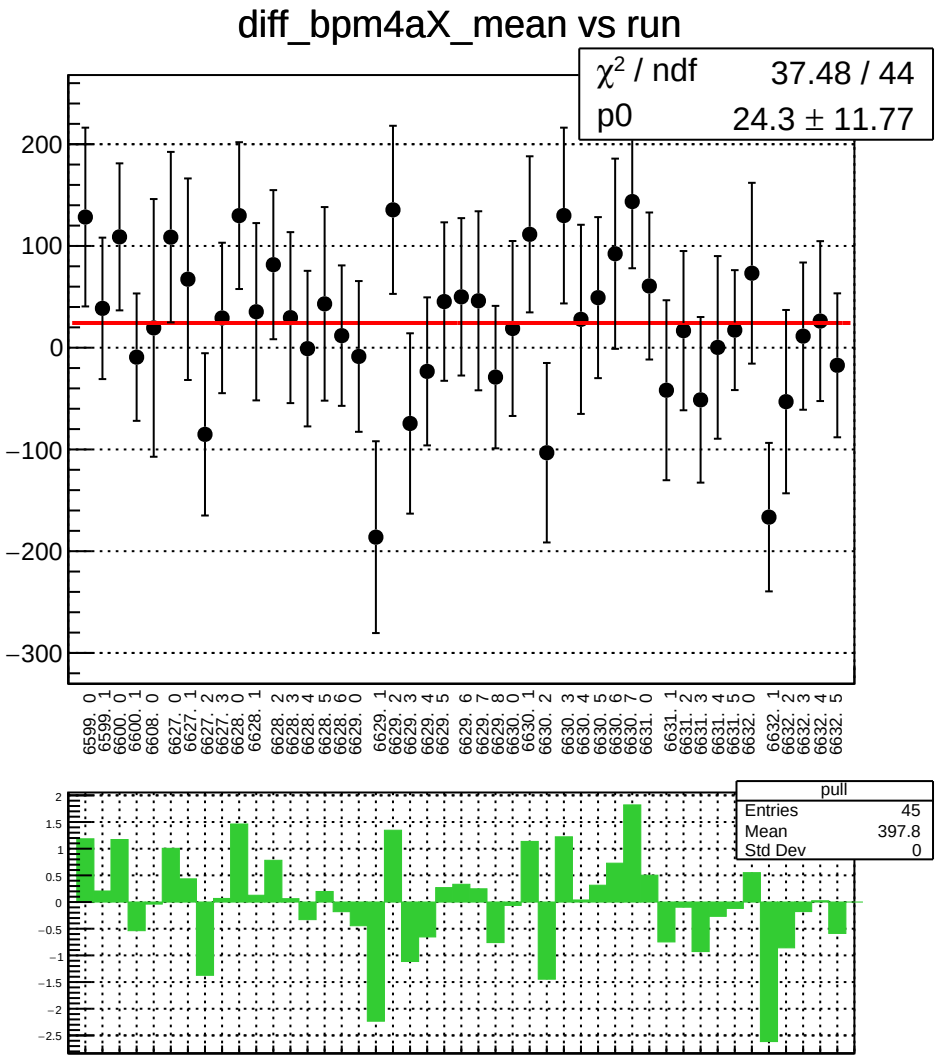

yield_bpm0r03Y_rms vs run
χ² / ndf 6.621e+04 / 44
p0 0.01031 ± 1.141e–05
0.06
0.05
0.04
0.03
0.02
0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

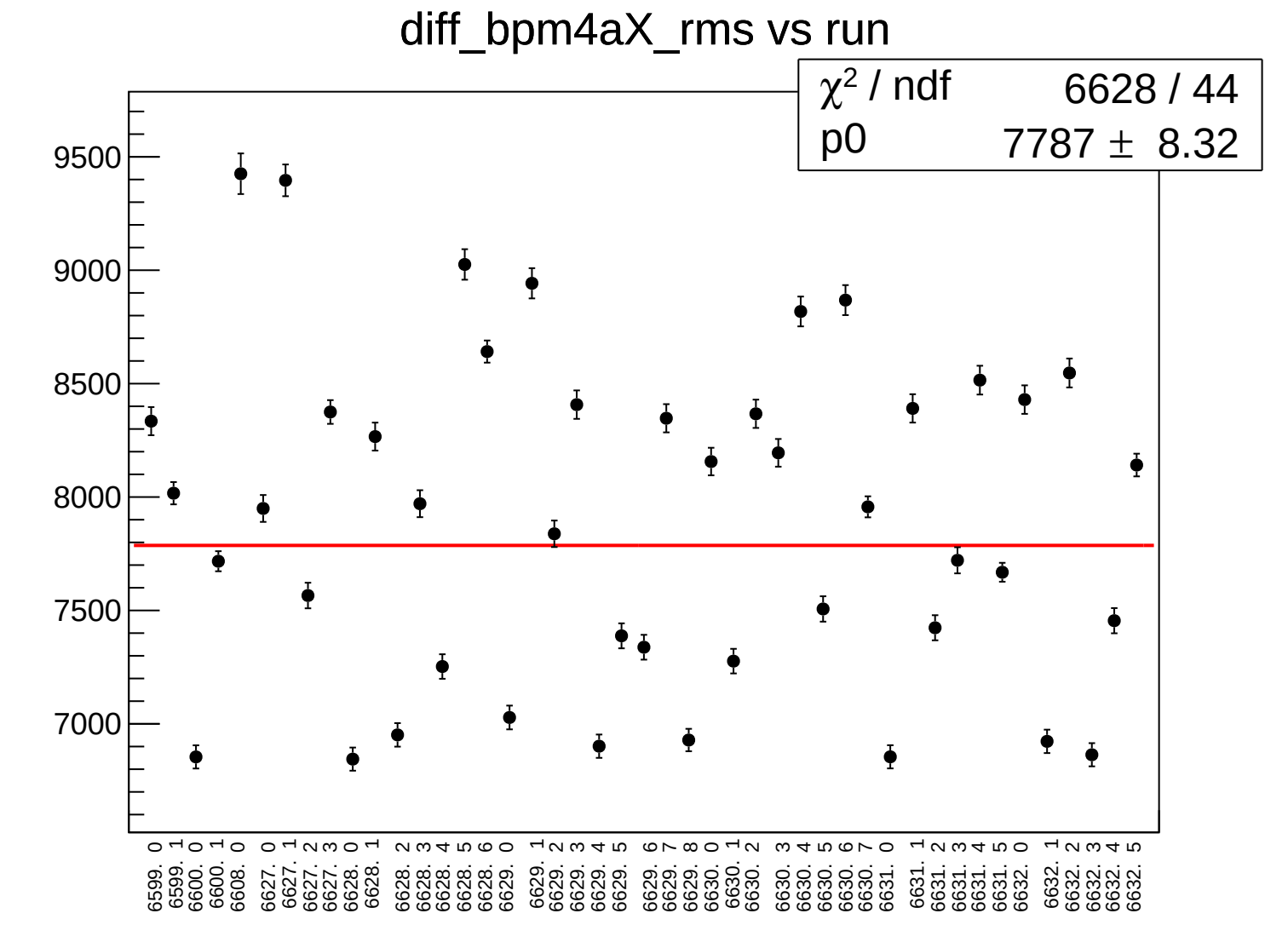

yield_bpm0r05X_mean vs run
χ² / ndf 3.596e+04 / 44
p0 −0.1249 ± 0.0001254
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 73.1
Std Dev 0
60
40
20
0
−20
−40
−60
pull1D
Entries 45
Mean 0.5213
Std Dev 4.662
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

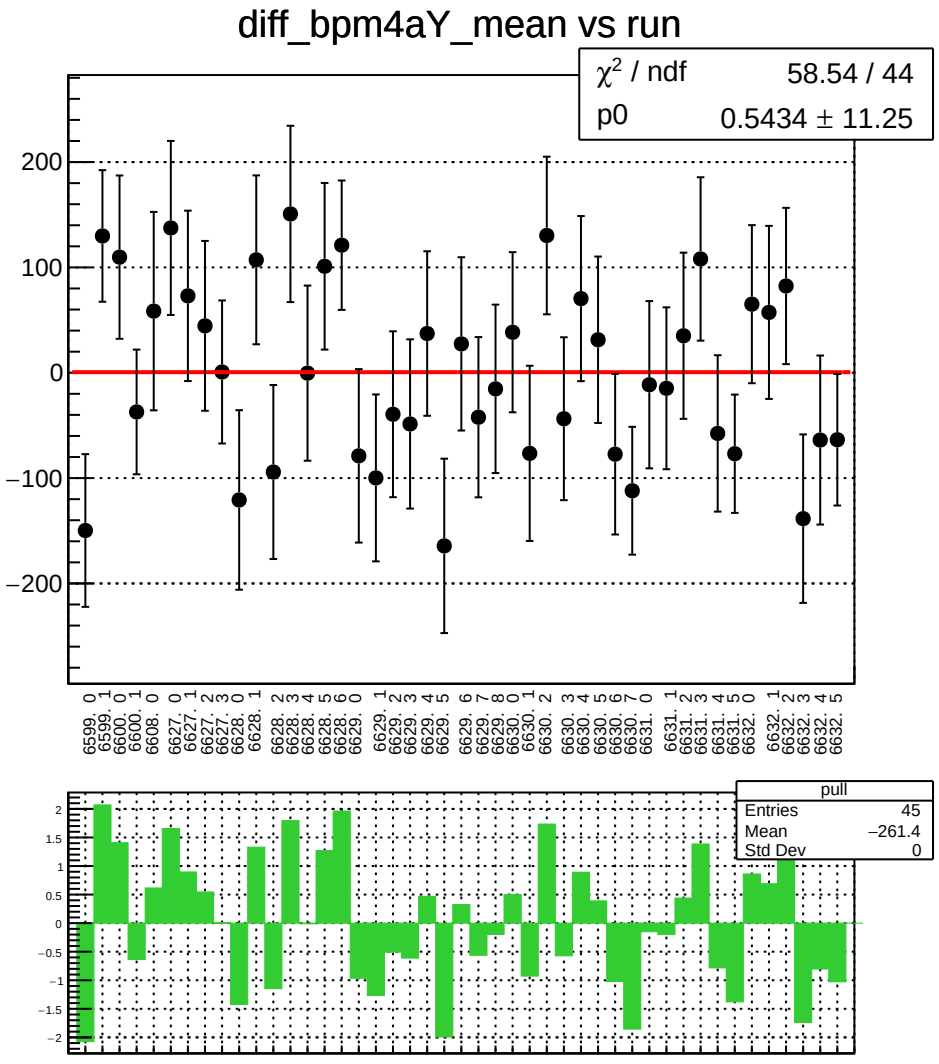

yield_bpm0r05X_rms vs run
χ² / ndf 8602 / 44
p0 0.08292 ± 8.87e−05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

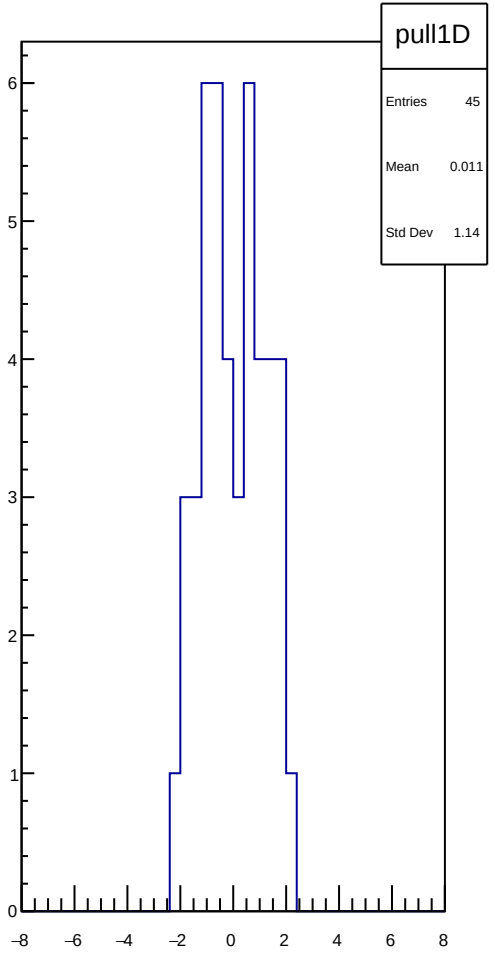

yield_bpm0r05Y_mean vs run
χ² / ndf 1.388e+07 / 44
p0 1.516 ± 1.89e−05
1.8
1.75
1.7
1.65
1.6
1.55
1.5
1.45
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −44.88
Std Dev 0
1400
1200
1000
800
600
400
200
0
−200
−400
−600
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

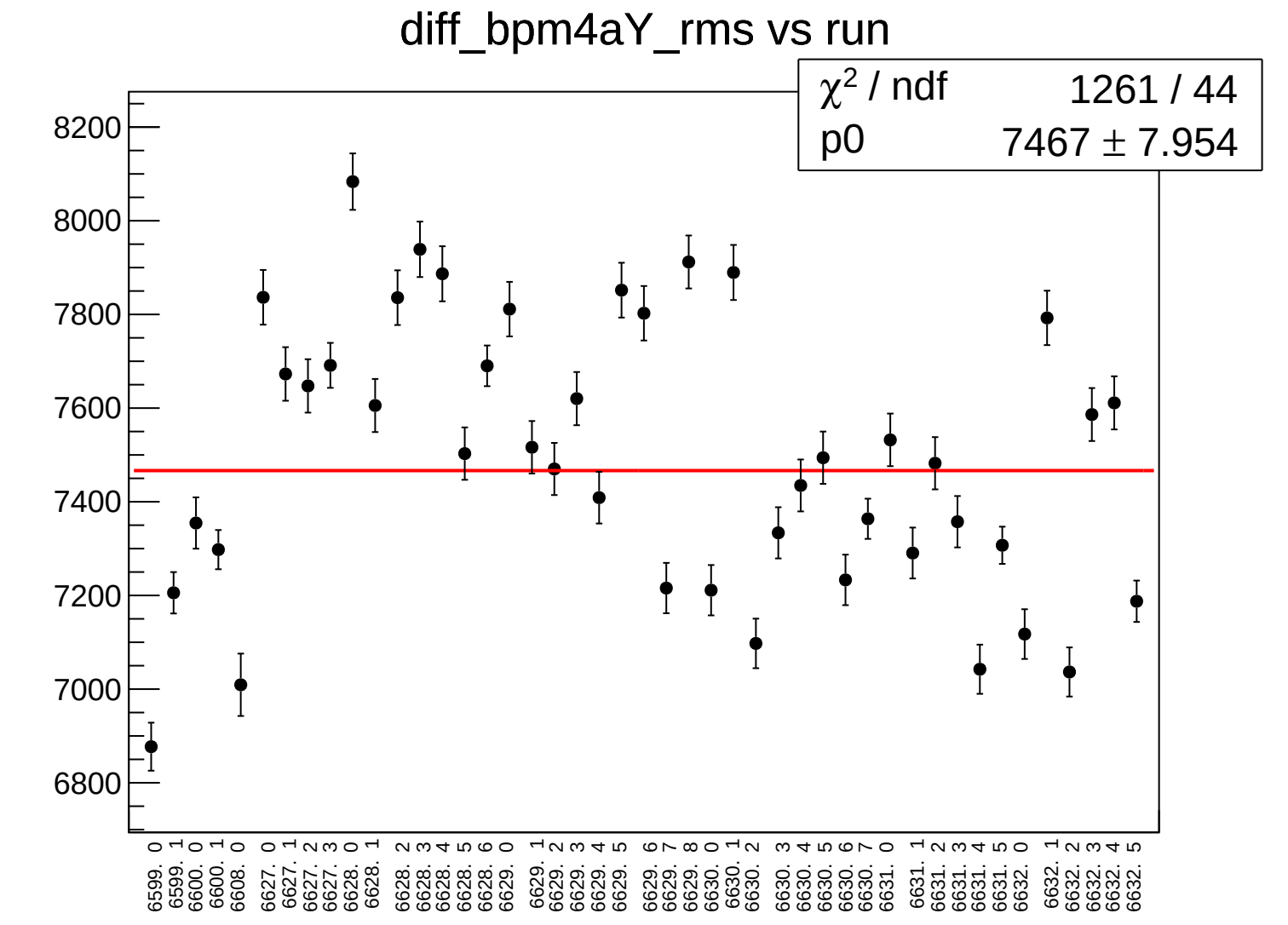

yield_bpm0r05Y_rms vs run
χ² / ndf 7.069e+04 / 44
p0 0.01204 ± 1.336e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

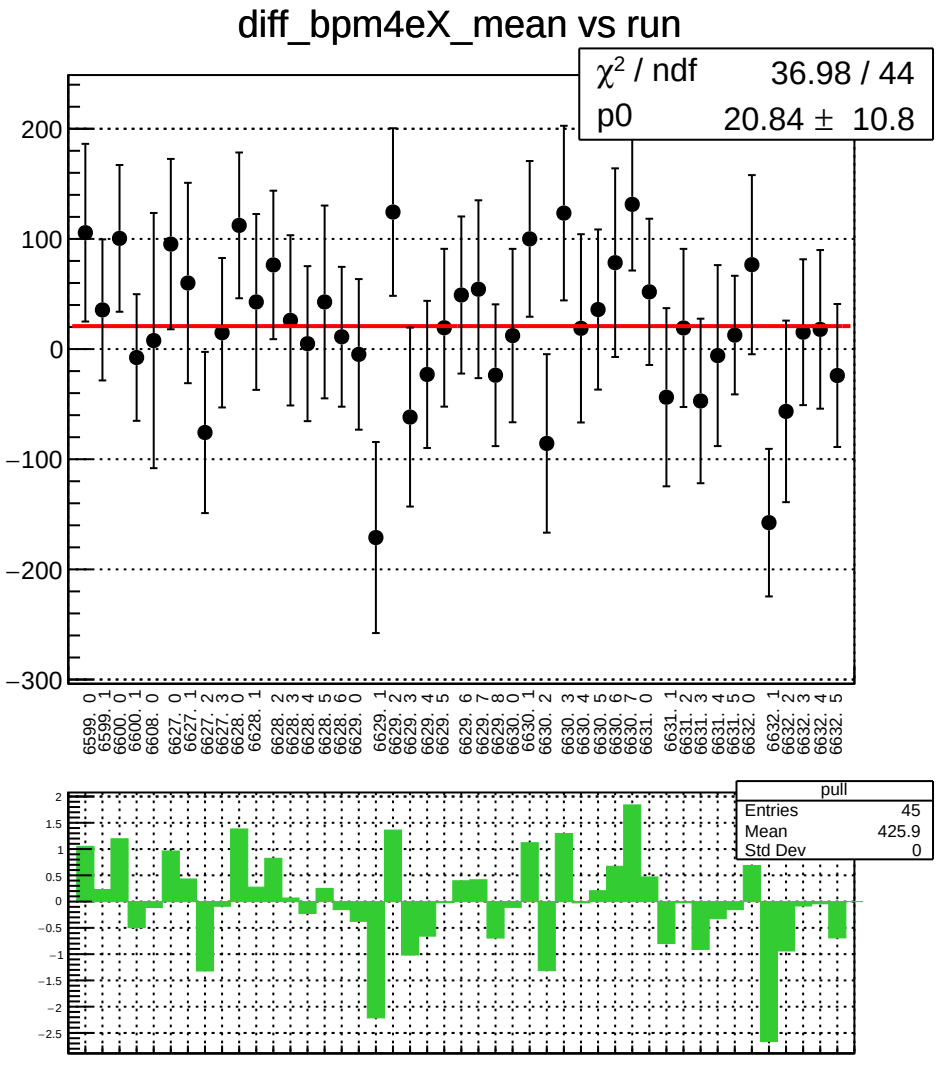

diff_bpm4aX_mean vs run
χ² / ndf 37.48 / 44
p0 24.3 ± 11.77
200
100
0
−100
−200
−300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 397.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.007376
Std Dev 0.9127
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

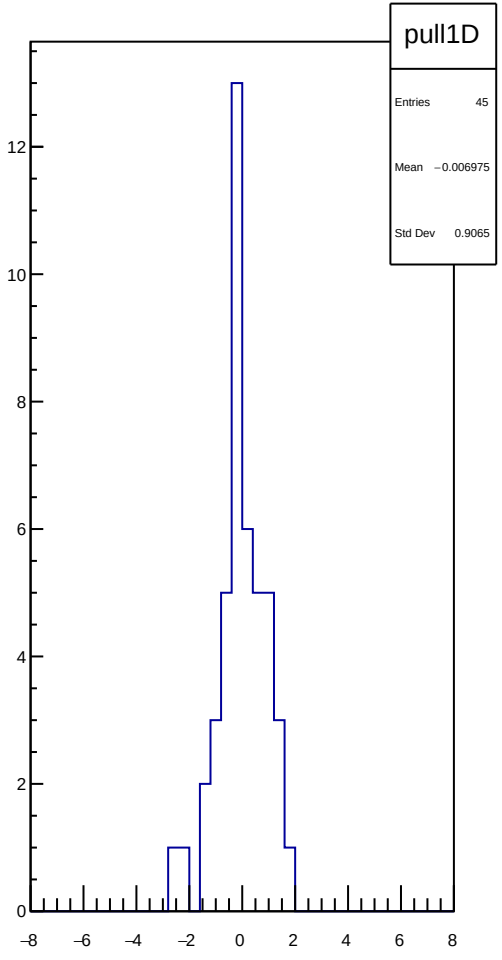

diff_bpm4aX_rms vs run
χ² / ndf 6628 / 44
p0 7787 ± 8.32
9500
9000
8500
8000
7500
7000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

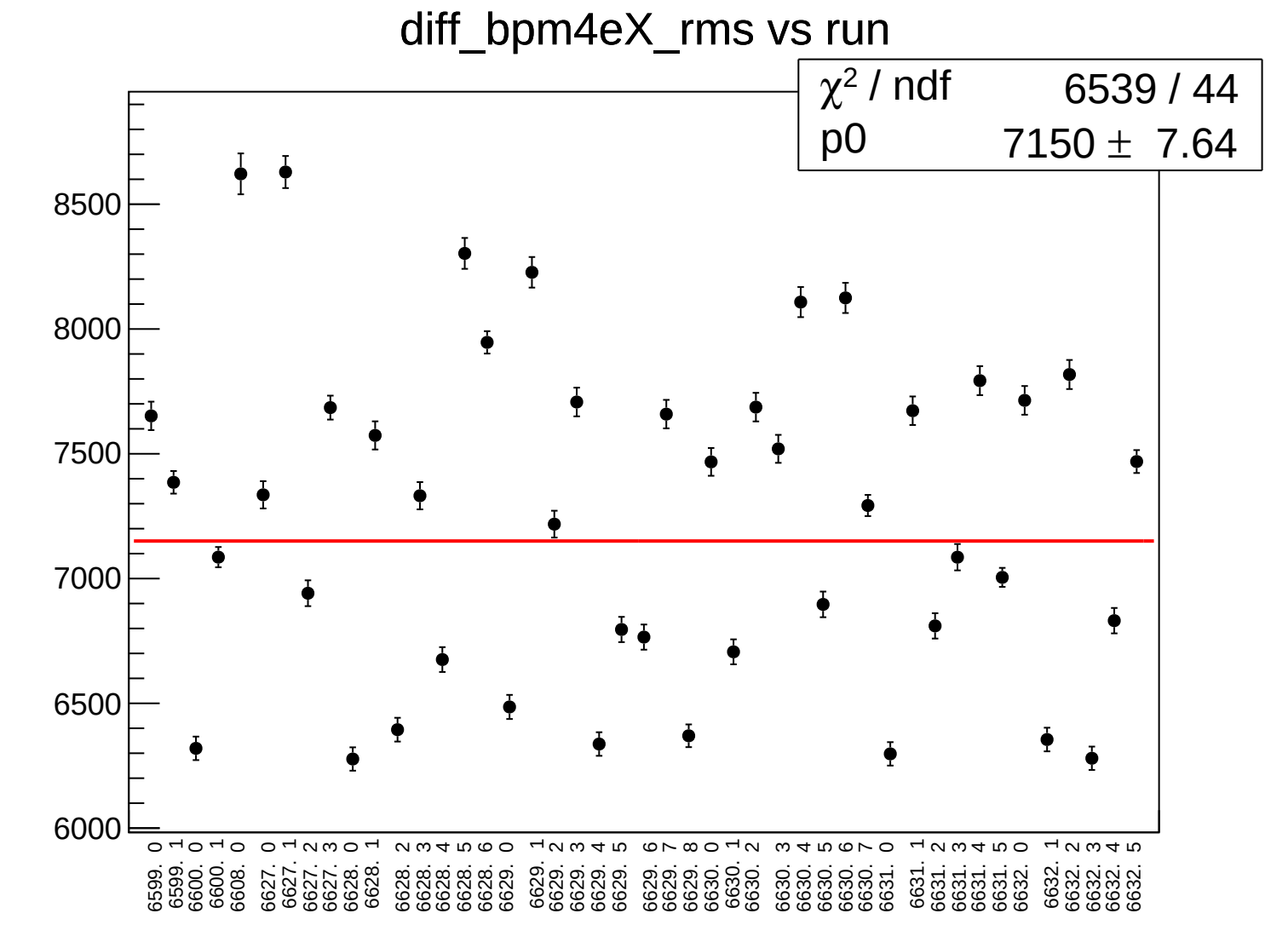

diff_bpm4aY_mean vs run
χ² / ndf 58.54 / 44
p0 0.5434 ± 11.25
200
100
0
−100
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −261.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

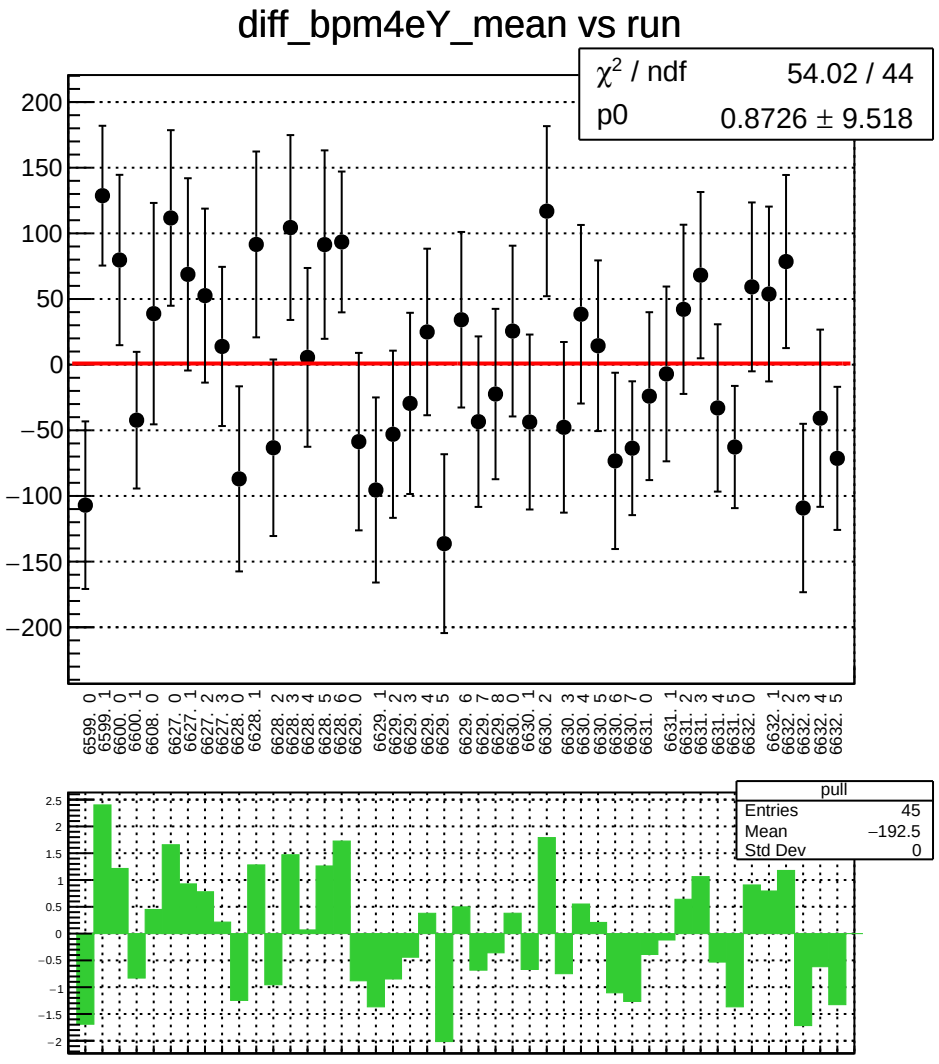

pull1D
Entries 45
Mean 0.011
Std Dev 1.14
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

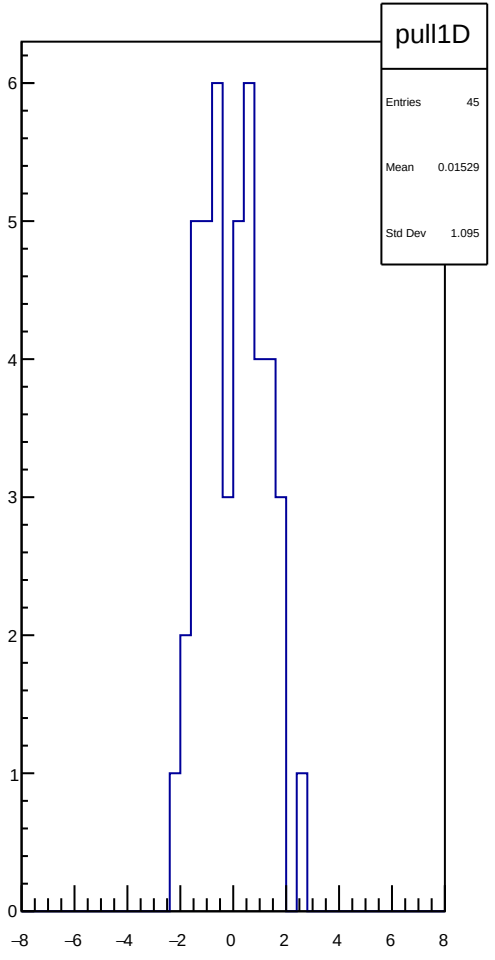

diff_bpm4aY_rms vs run
χ² / ndf 1261 / 44
p0 7467 ± 7.954
8200
8000
7800
7600
7400
7200
7000
6800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

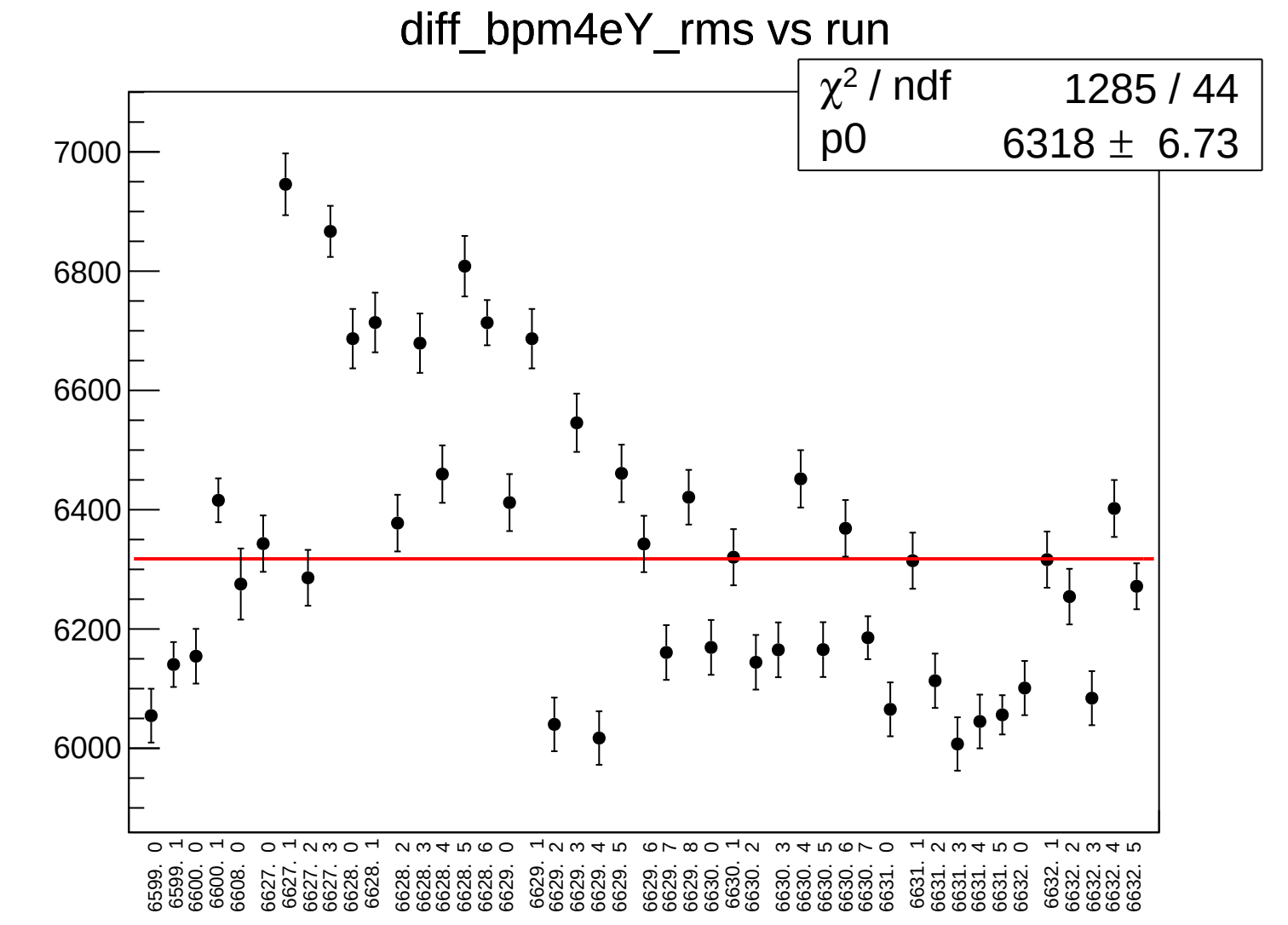

diff_bpm4eX_mean vs run
χ² / ndf 36.98 / 44
p0 20.84 ± 10.8
200
100
0
−100
−200
−300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 425.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

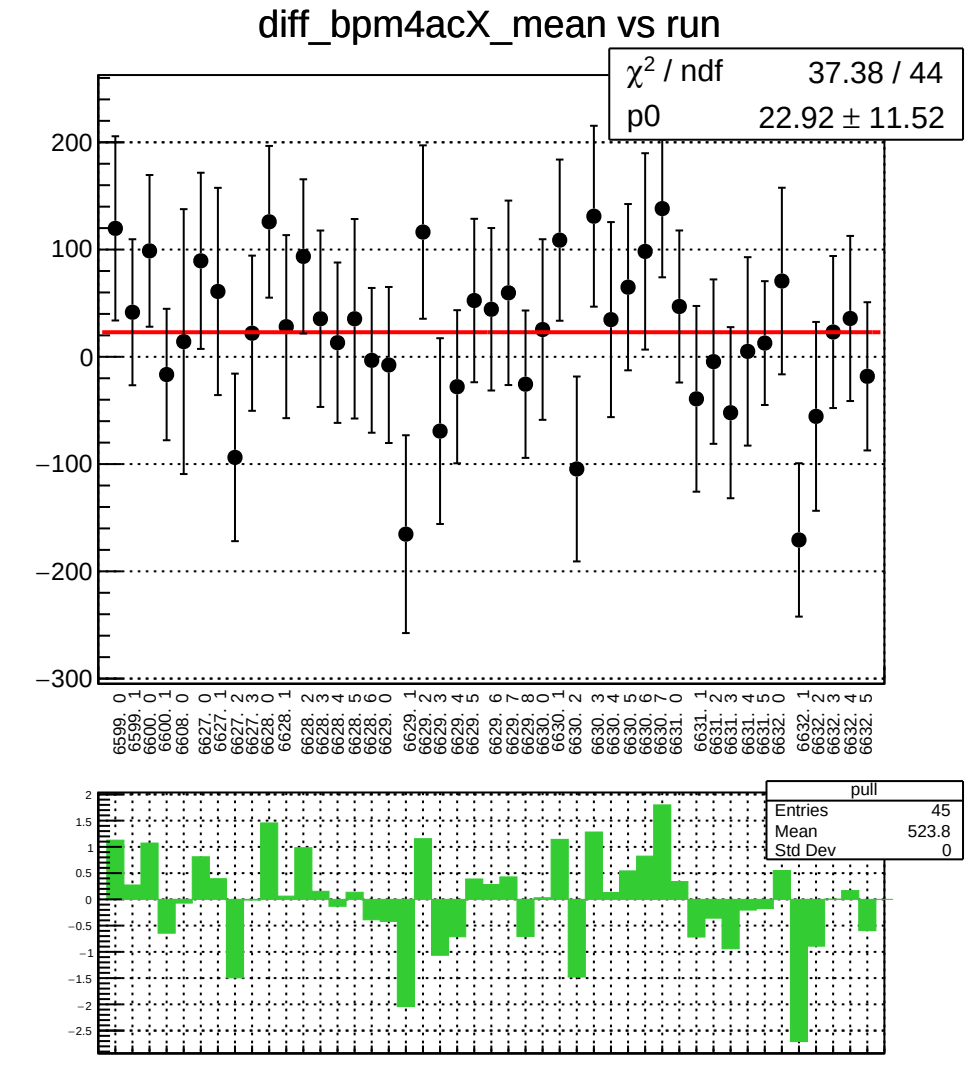

pull1D
Entries 45
Mean −0.006975
Std Dev 0.9065
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

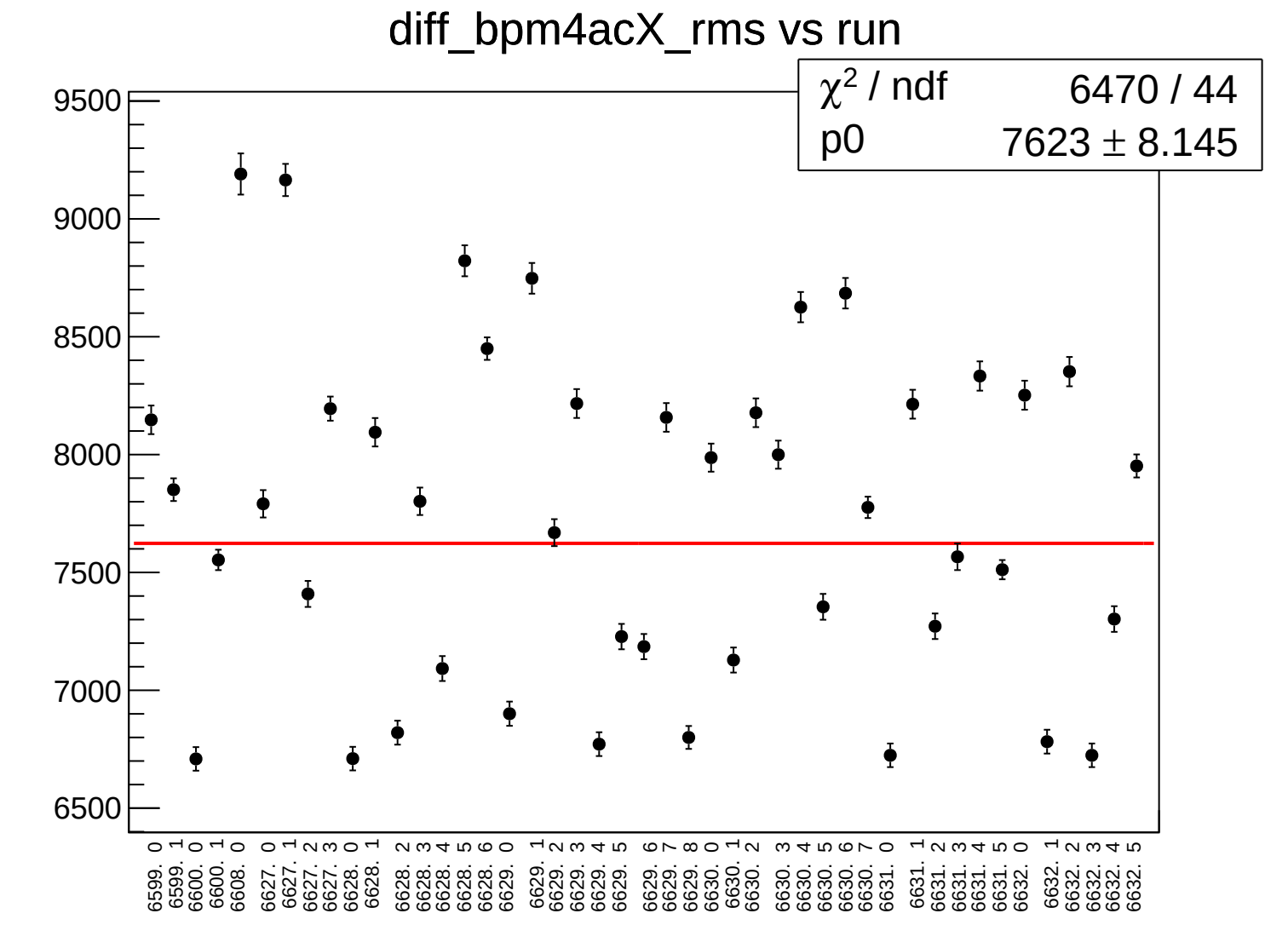

diff_bpm4eX_rms vs run
χ² / ndf 6539 / 44
p0 7150 ± 7.64
8500
8000
7500
7000
6500
6000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

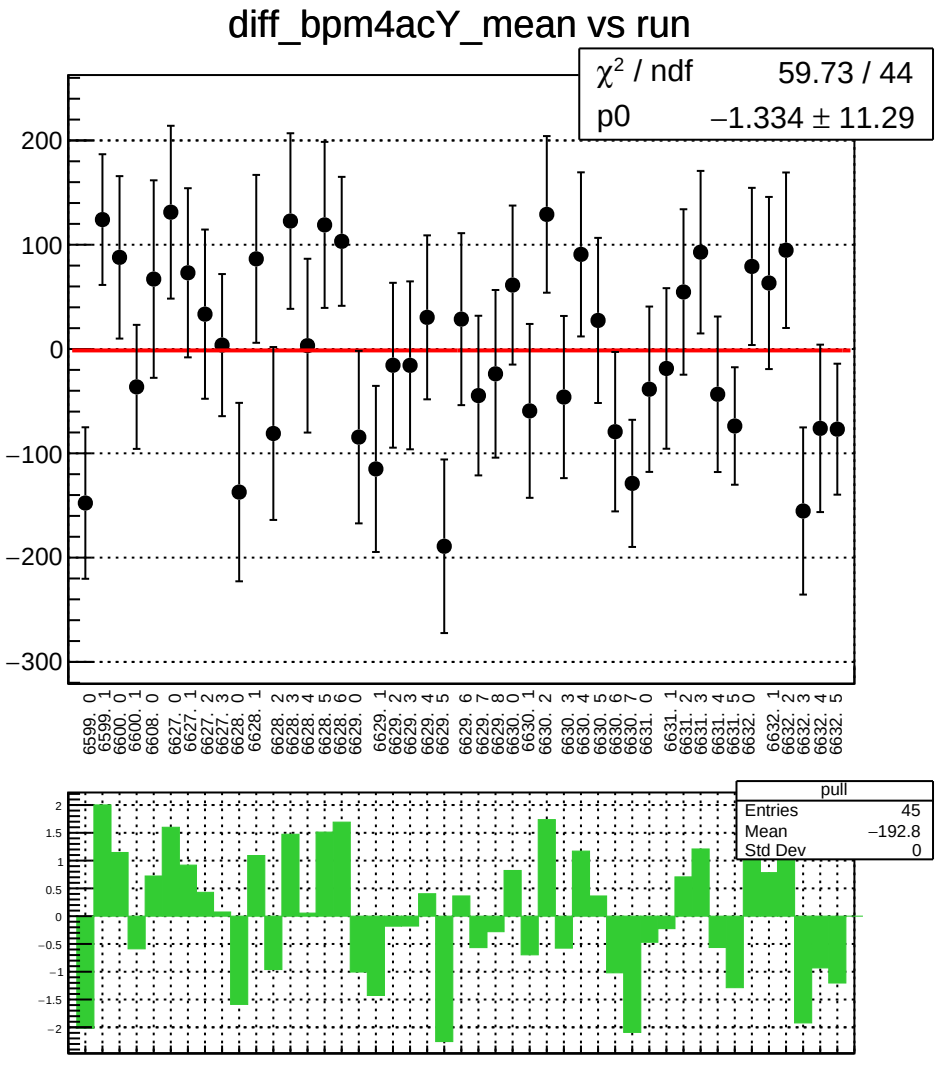

diff_bpm4eY_mean vs run
χ² / ndf 54.02 / 44
p0 0.8726 ± 9.518
200
150
100
50
0
−50
−100
−150
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −192.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

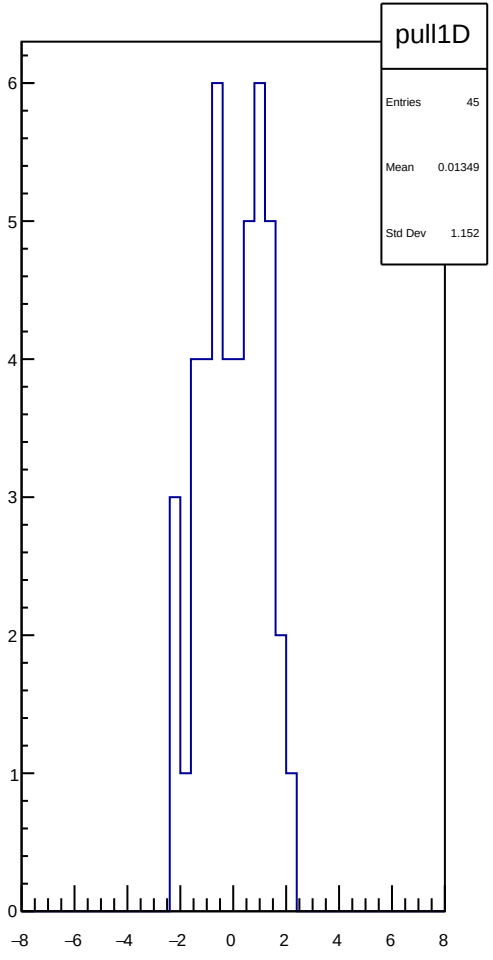

pull1D
Entries 45
Mean 0.01529
Std Dev 1.095
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

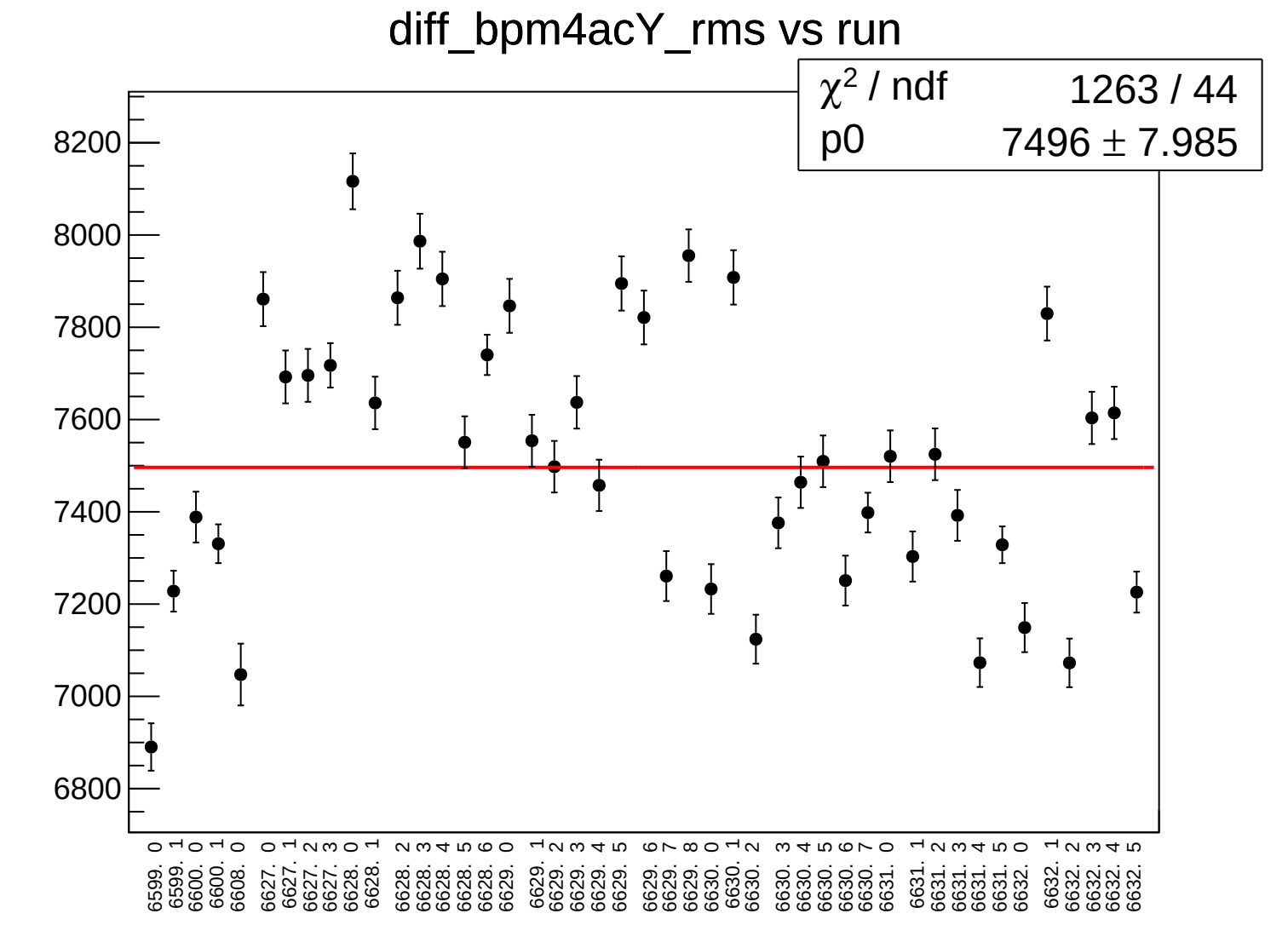

diff_bpm4eY_rms vs run
χ² / ndf 1285 / 44
p0 6318 ± 6.73
7000
6800
6600
6400
6200
6000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

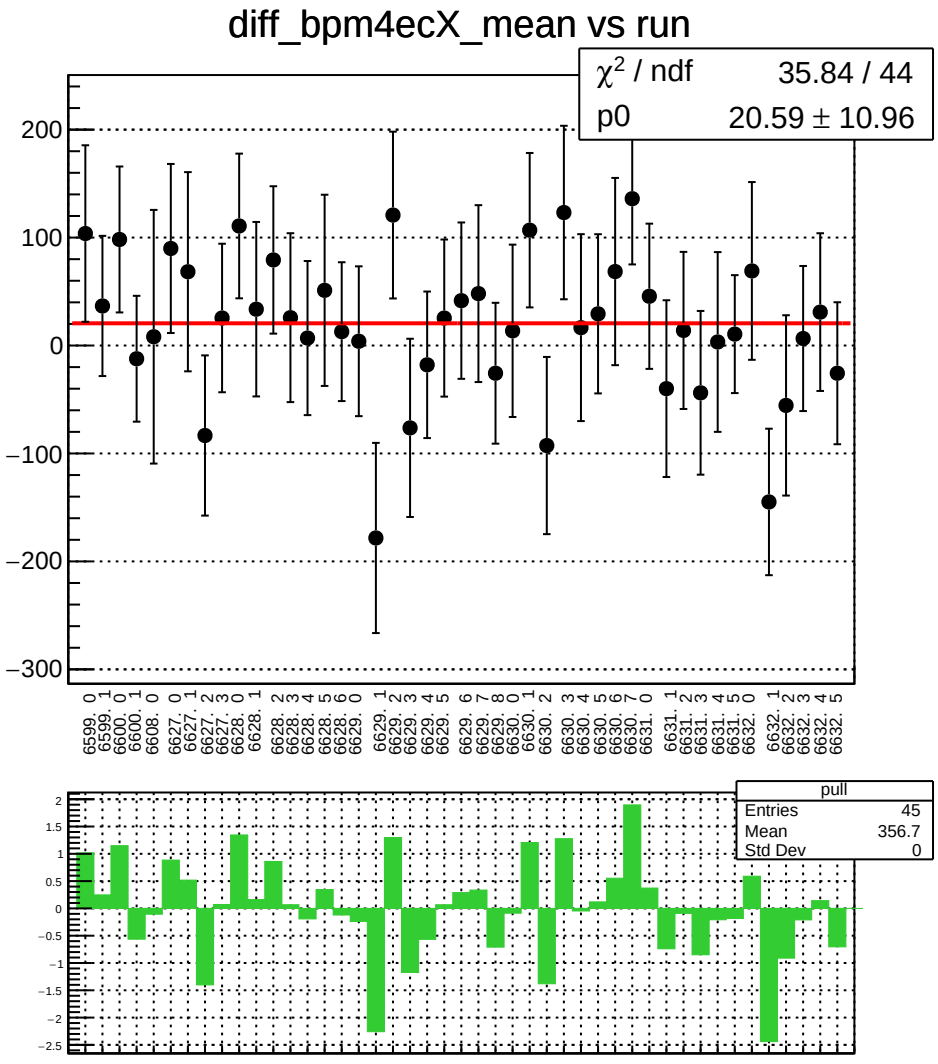

diff_bpm4acX_mean vs run
$\chi^2$ / ndf 37.38 / 44
p0 22.92 ± 11.52
200
100
0
−100
−200
−300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6628. 0
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 523.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.004994
Std Dev 0.9114
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

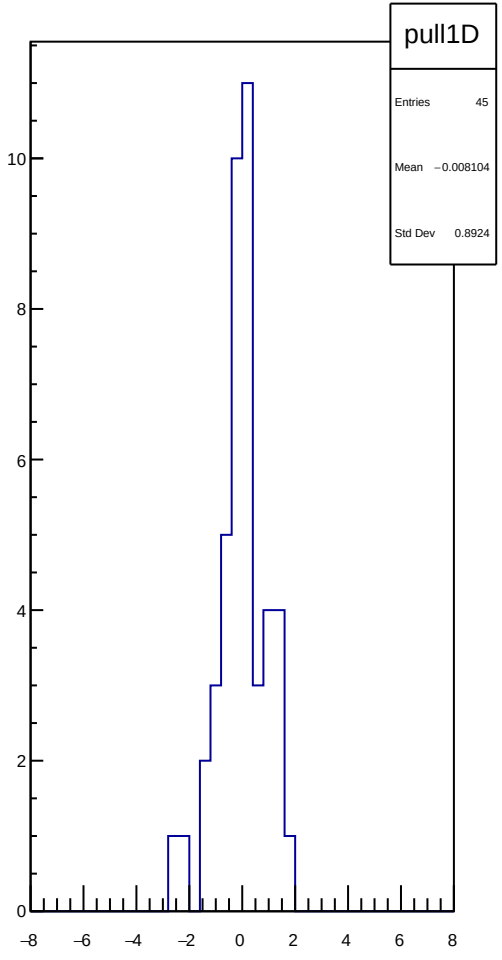

diff_bpm4acX_rms vs run
χ² / ndf 6470 / 44
p0 7623 ± 8.145
9500
9000
8500
8000
7500
7000
6500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

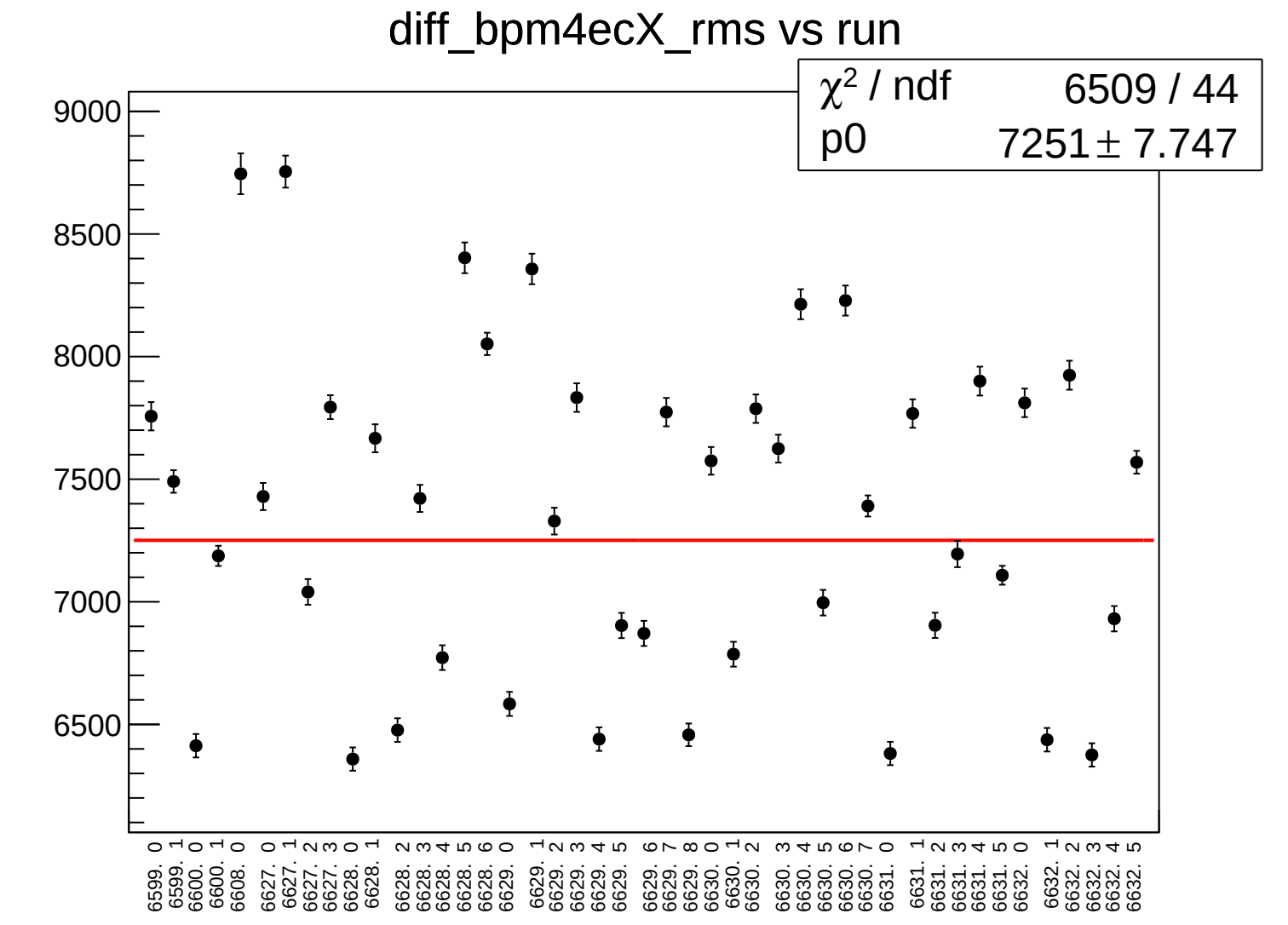

diff_bpm4acY_mean vs run
χ² / ndf 59.73 / 44
p0 −1.334 ± 11.29
200
100
0
−100
−200
−300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −192.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

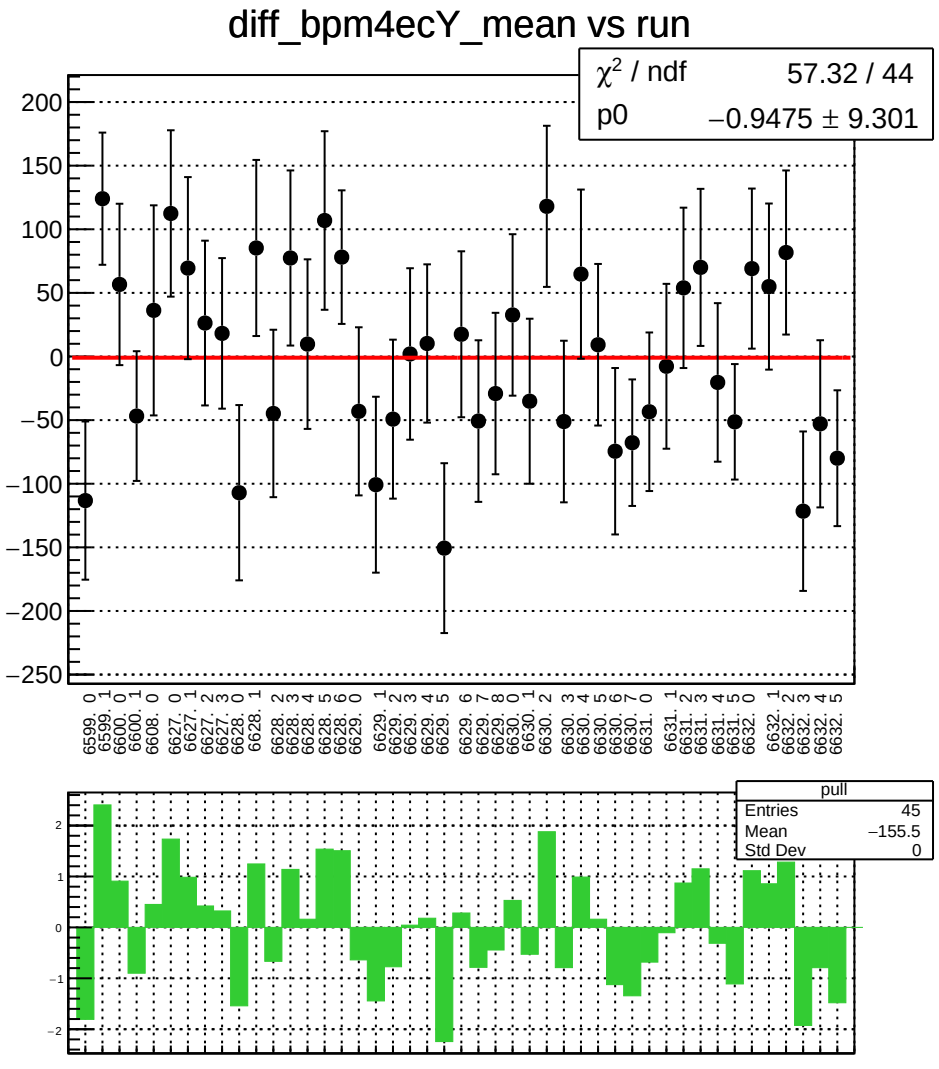

pull1D
Entries 45
Mean 0.01349
Std Dev 1.152
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

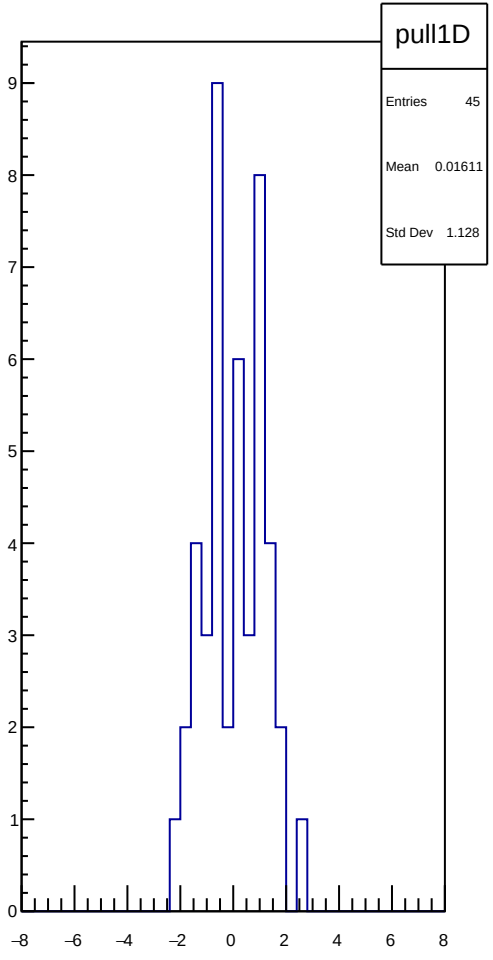

diff_bpm4acY_rms vs run
χ² / ndf 1263 / 44
p0 7496 ± 7.985
8200
8000
7800
7600
7400
7200
7000
6800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

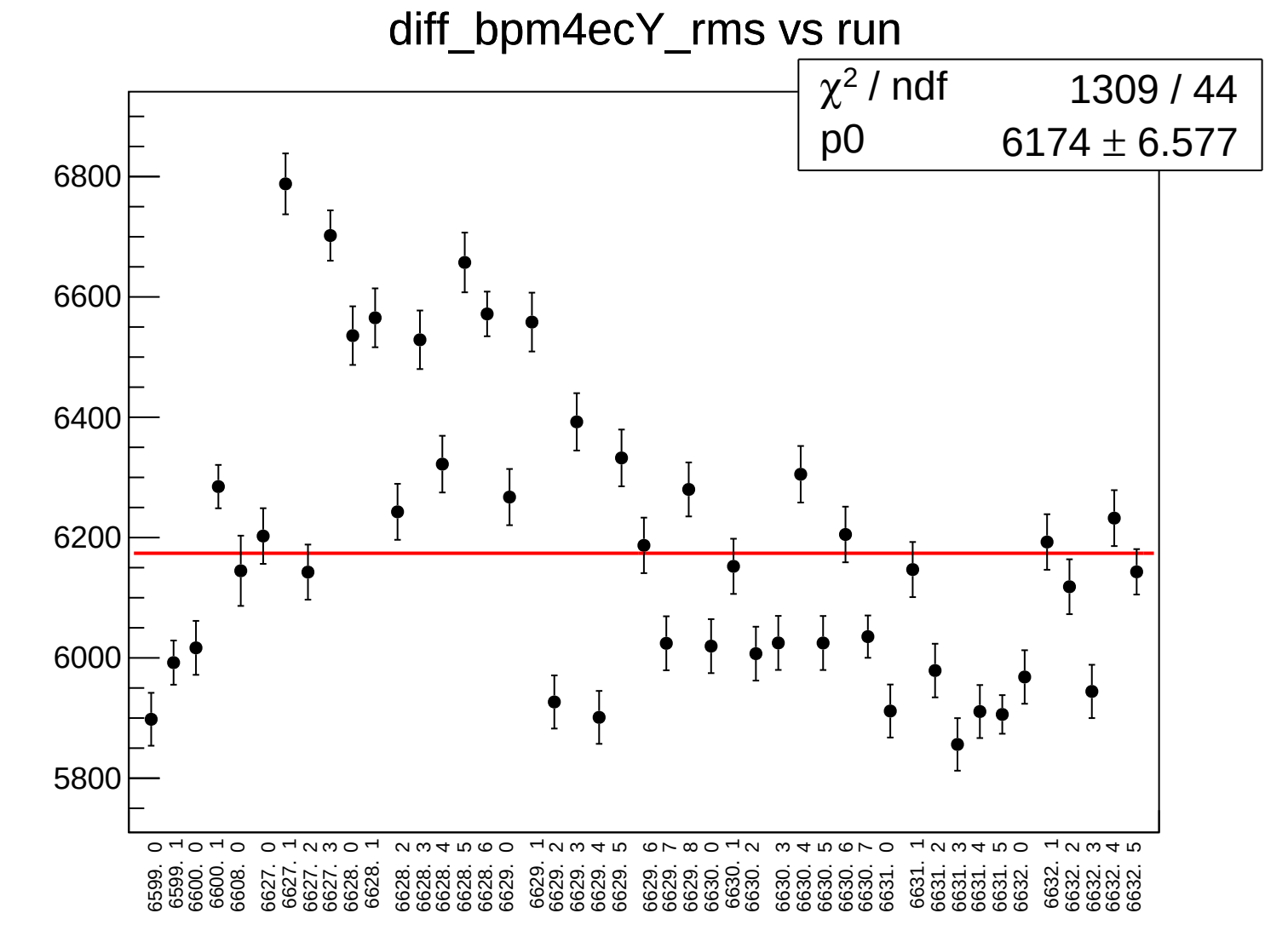

diff_bpm4ecX_mean vs run
$\chi^2$ / ndf 35.84 / 44
p0 20.59 ± 10.96
200
100
0
−100
−200
−300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 356.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

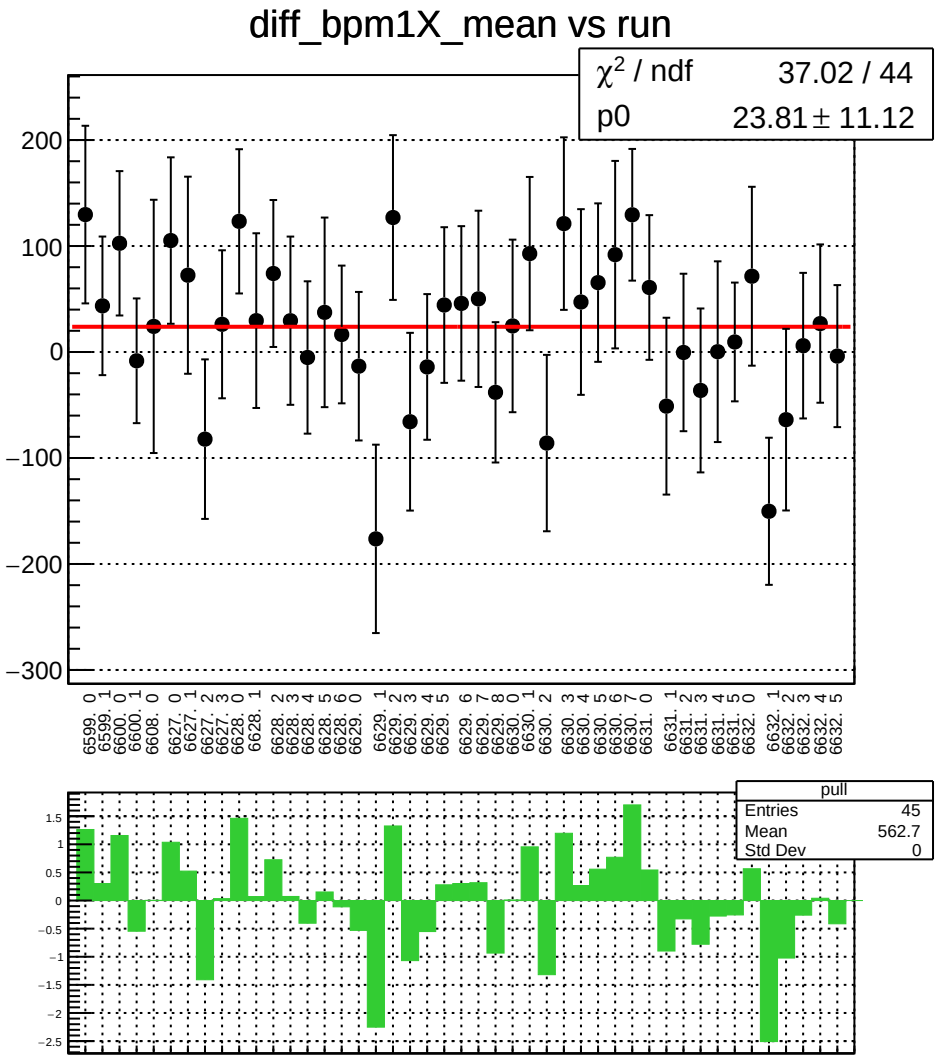

pull1D
Entries 45
Mean −0.008104
Std Dev 0.8924
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

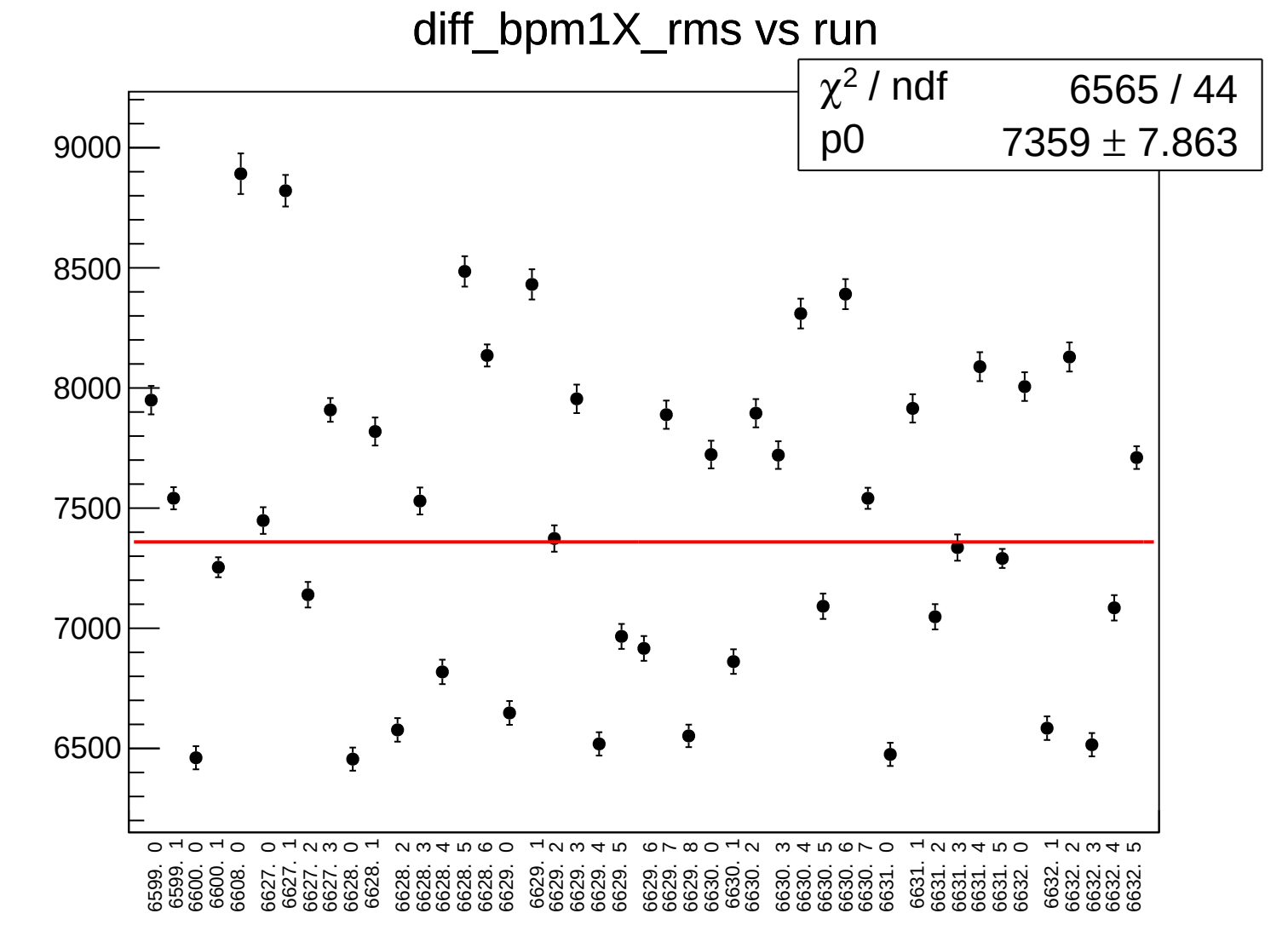

diff_bpm4ecX_rms vs run
χ² / ndf 6509 / 44
p0 7251 ± 7.747
9000
8500
8000
7500
7000
6500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

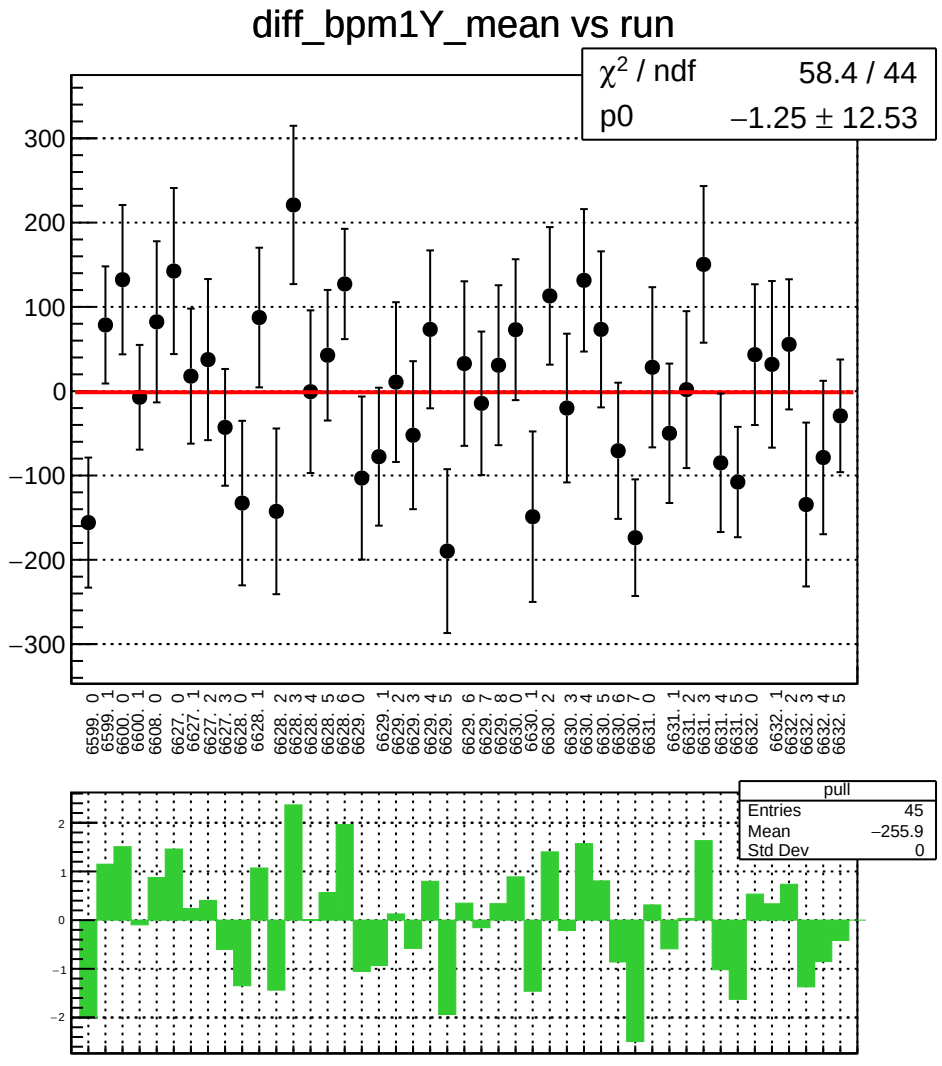

diff_bpm4ecY_mean vs run
χ² / ndf 57.32 / 44
p0 −0.9475 ± 9.301
pull
Entries 45
Mean −155.5
Std Dev 0

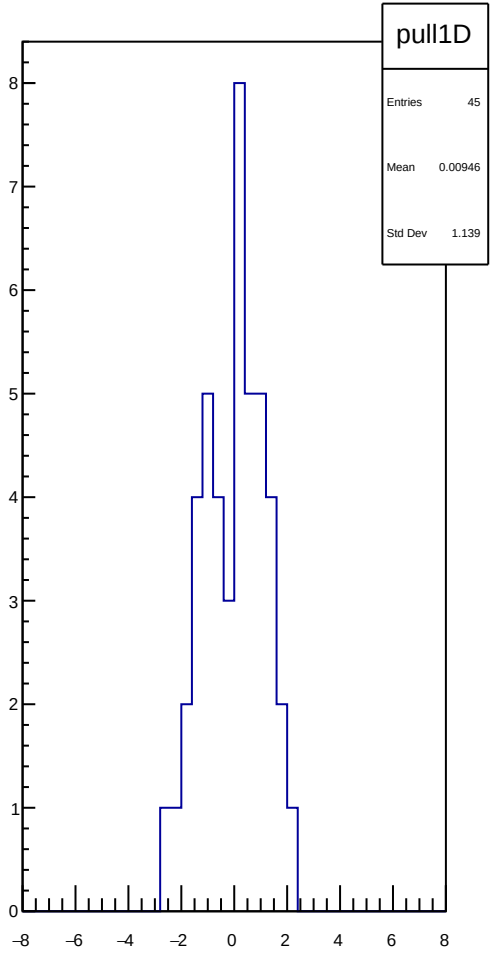

pull1D
Entries 45
Mean 0.01611
Std Dev 1.128

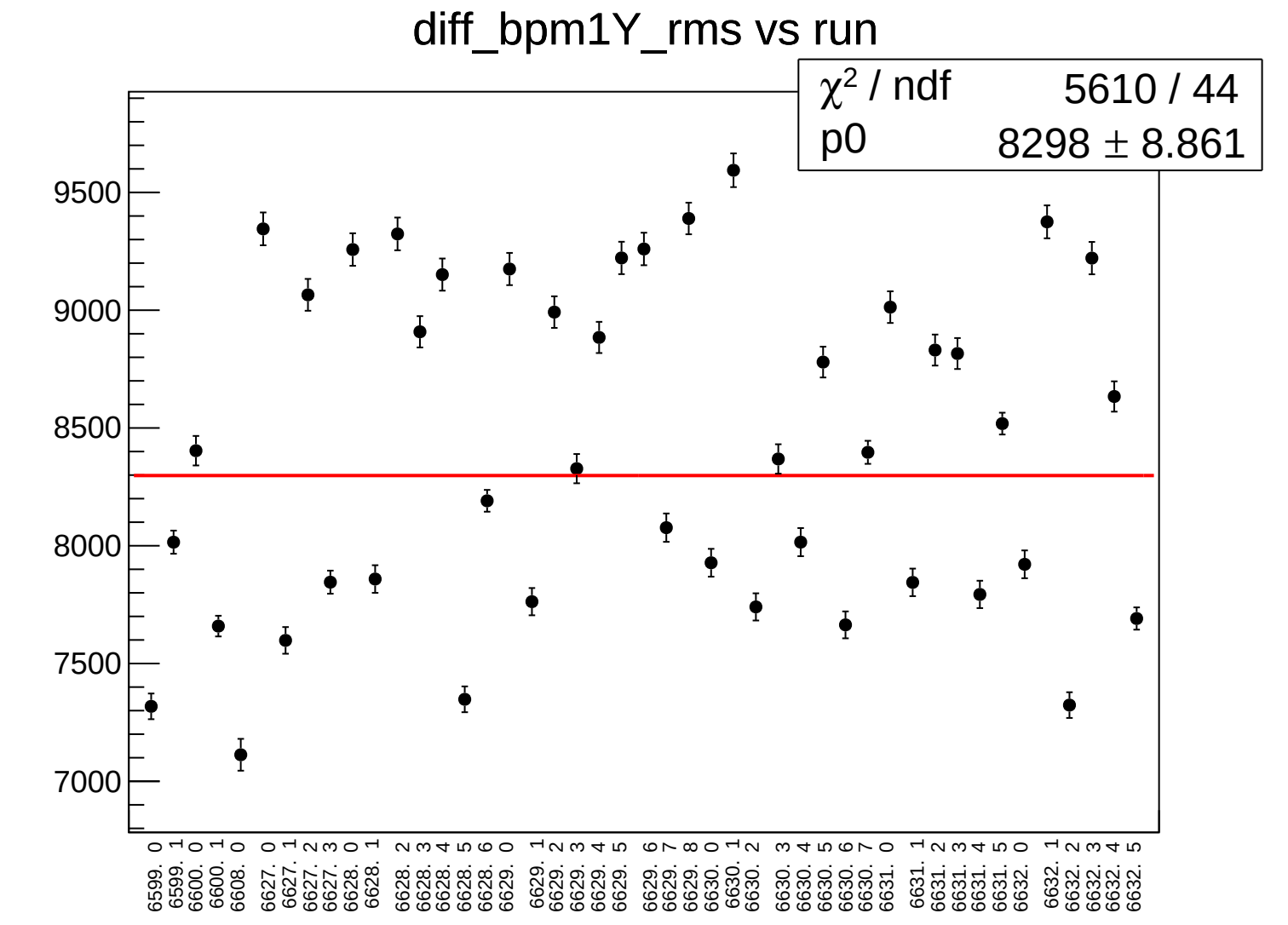

diff_bpm4ecY_rms vs run
χ² / ndf 1309 / 44
p0 6174 ± 6.577
6800
6600
6400
6200
6000
5800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

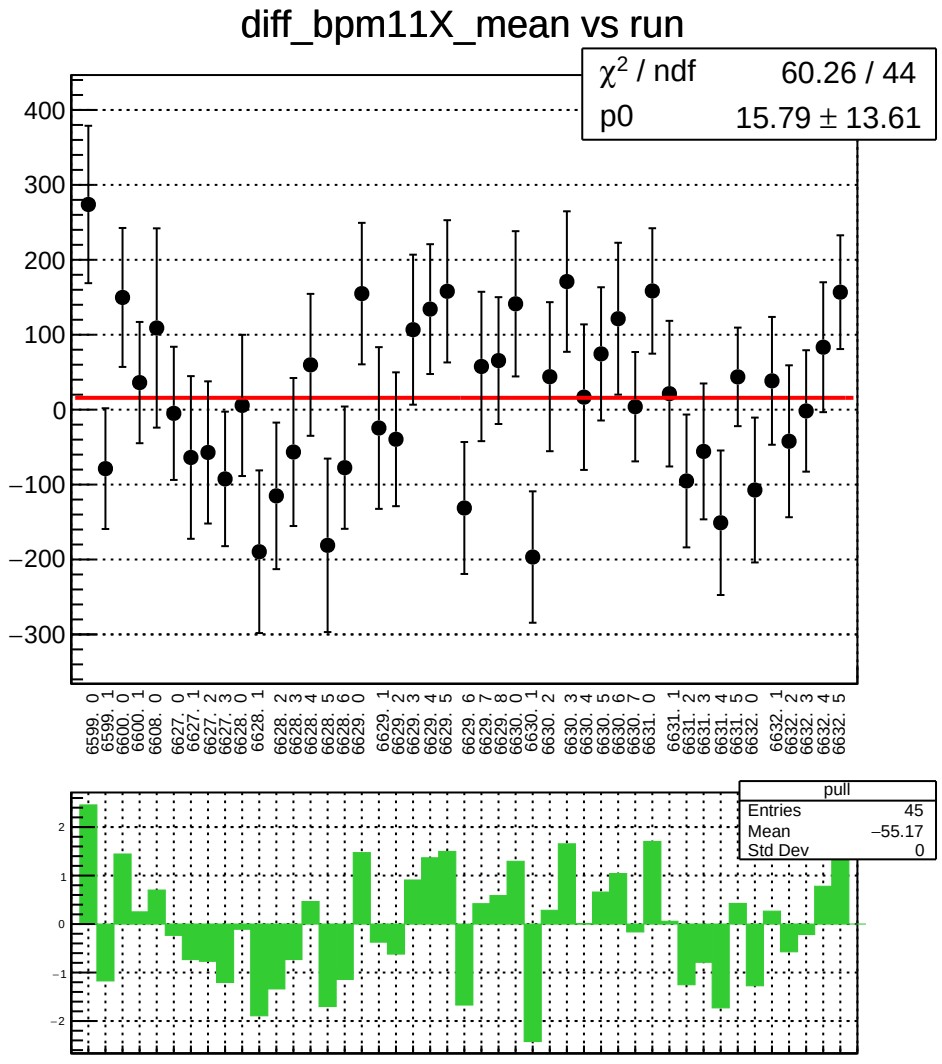

diff_bpm1X_mean vs run
χ² / ndf 37.02 / 44
p0 23.81 ± 11.12
200
100
0
−100
−200
−300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 562.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.00526
Std Dev 0.907
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

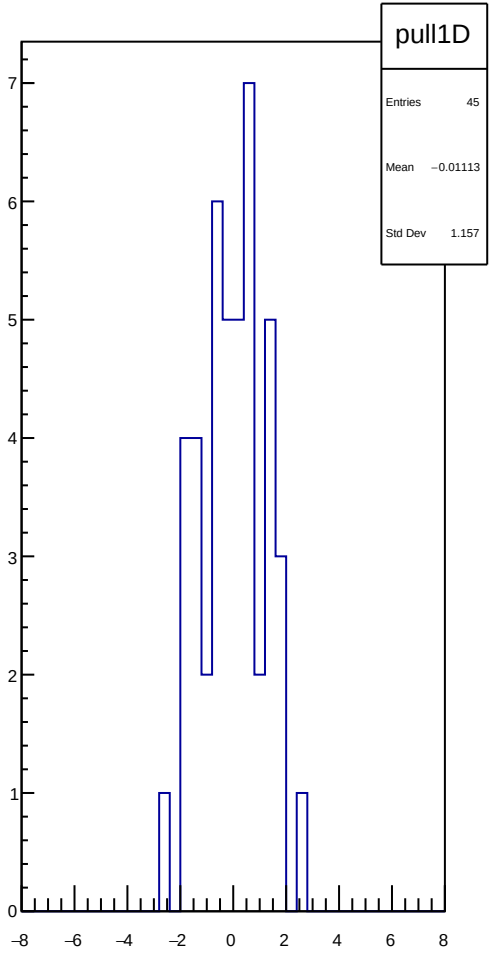

diff_bpm1X_rms vs run
χ² / ndf 6565 / 44
p0 7359 ± 7.863
9000
8500
8000
7500
7000
6500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

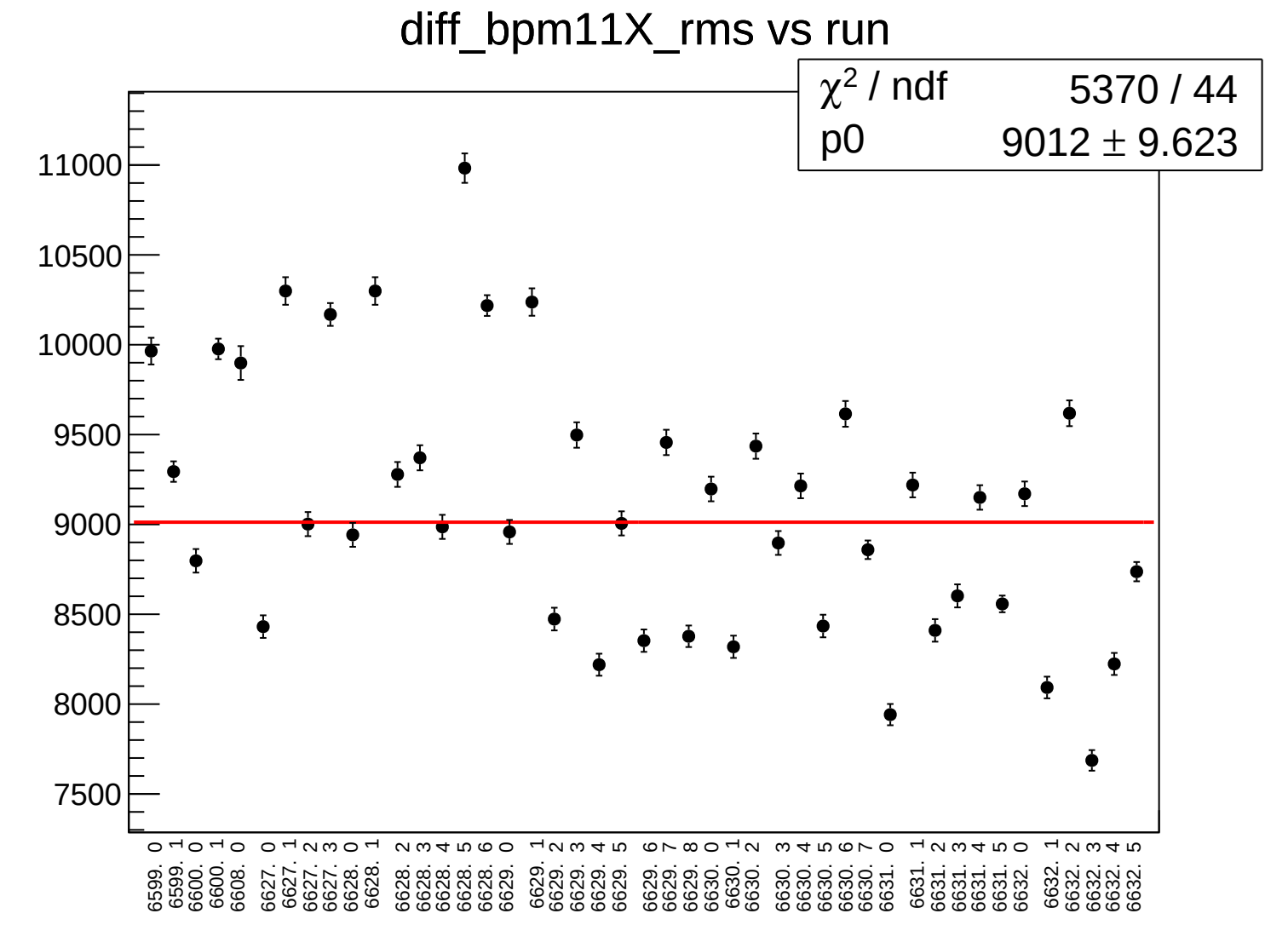

diff_bpm1Y_mean vs run
χ² / ndf 58.4 / 44
p0 −1.25 ± 12.53
300
200
100
0
−100
−200
−300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −255.9
Std Dev 0
2
1
0
−1
−2

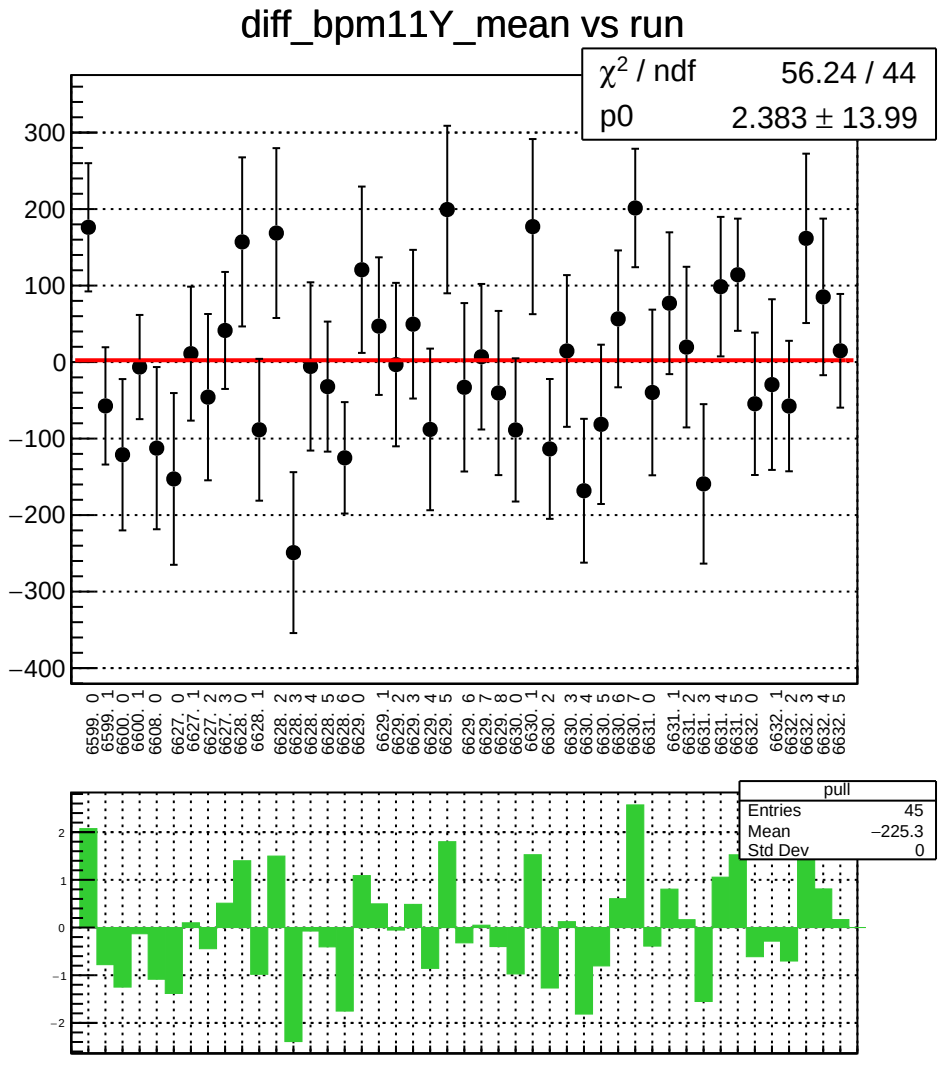

pull1D
Entries 45
Mean 0.00946
Std Dev 1.139
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

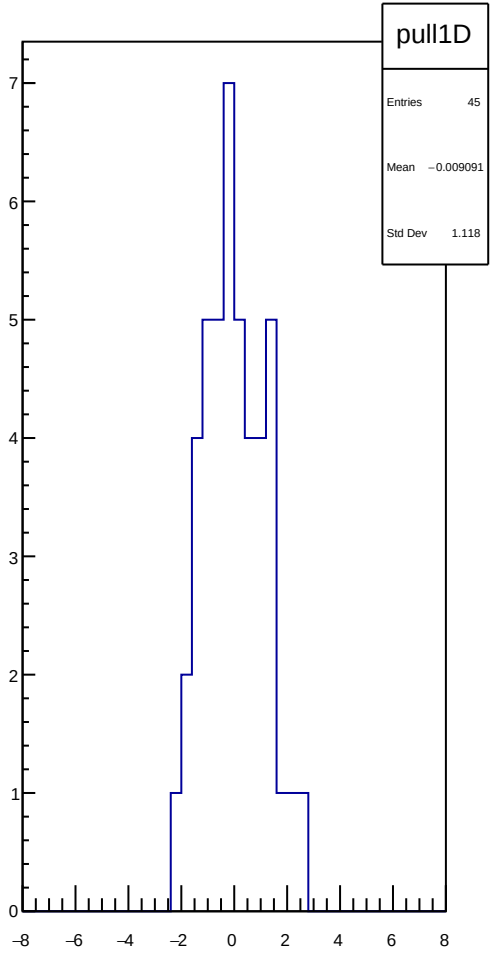

diff_bpm1Y_rms vs run
χ² / ndf 5610 / 44
p0 8298 ± 8.861
9500
9000
8500
8000
7500
7000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

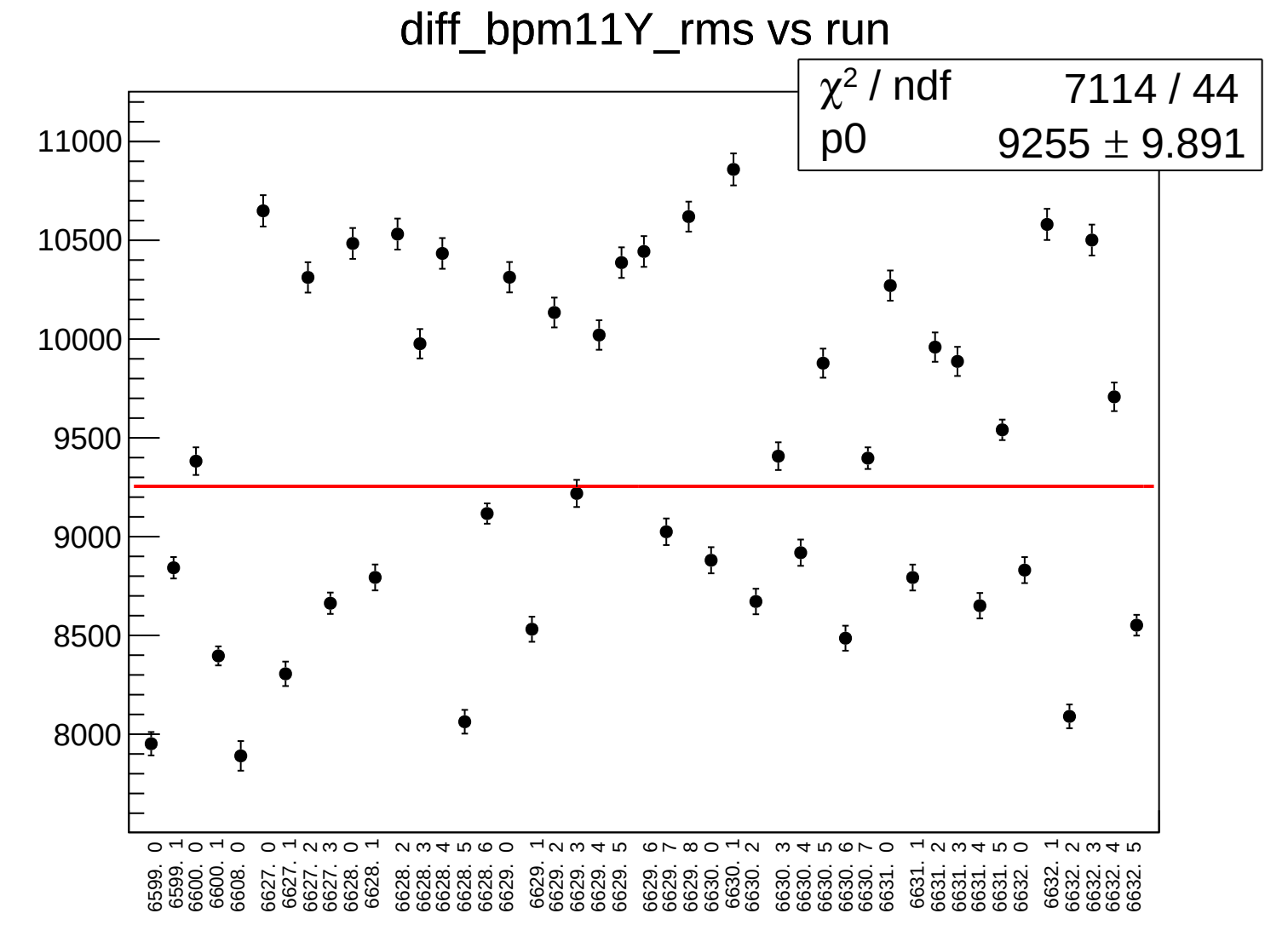

diff_bpm11X_mean vs run
χ² / ndf 60.26 / 44
p0 15.79 ± 13.61
400
300
200
100
0
−100
−200
−300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −55.17
Std Dev 0
2
1
0
−1
−2

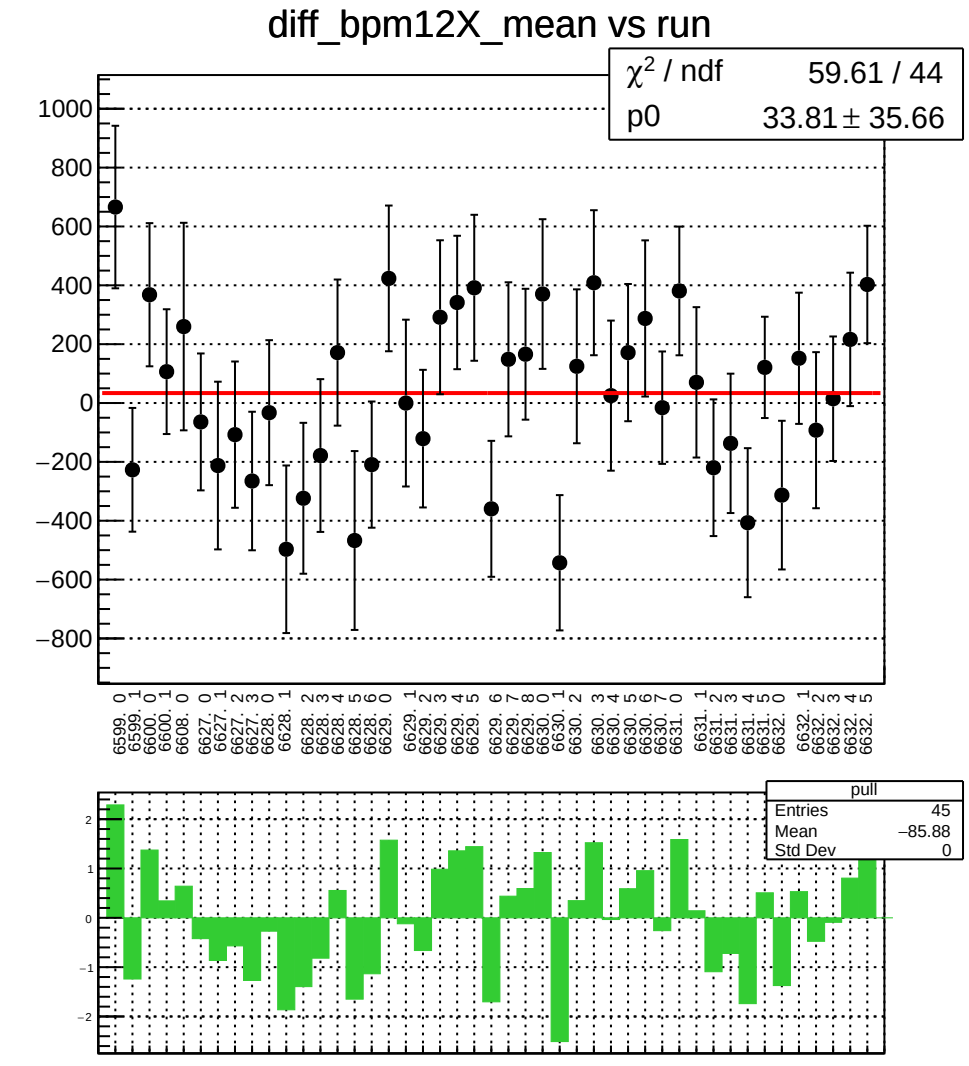

pull1D
Entries 45
Mean −0.01113
Std Dev 1.157
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

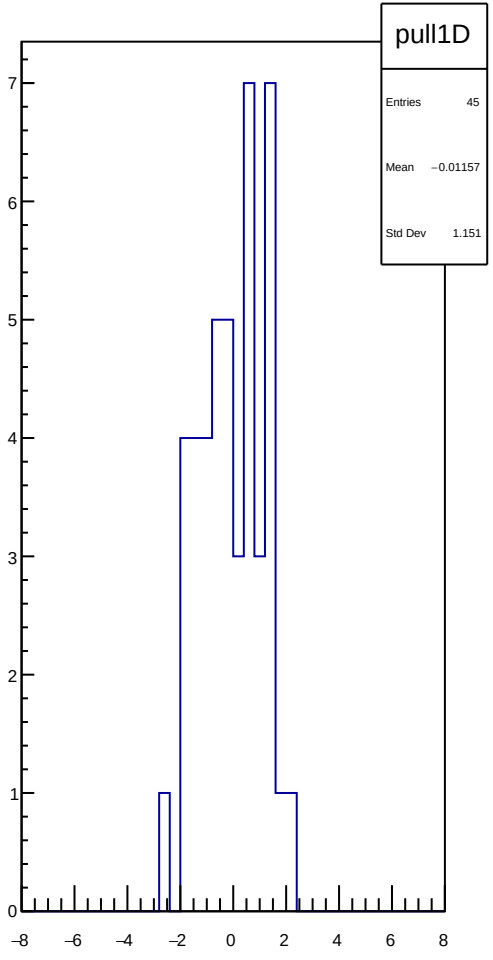

diff_bpm11X_rms vs run
χ² / ndf 5370 / 44
p0 9012 ± 9.623
11000
10500
10000
9500
9000
8500
8000
7500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

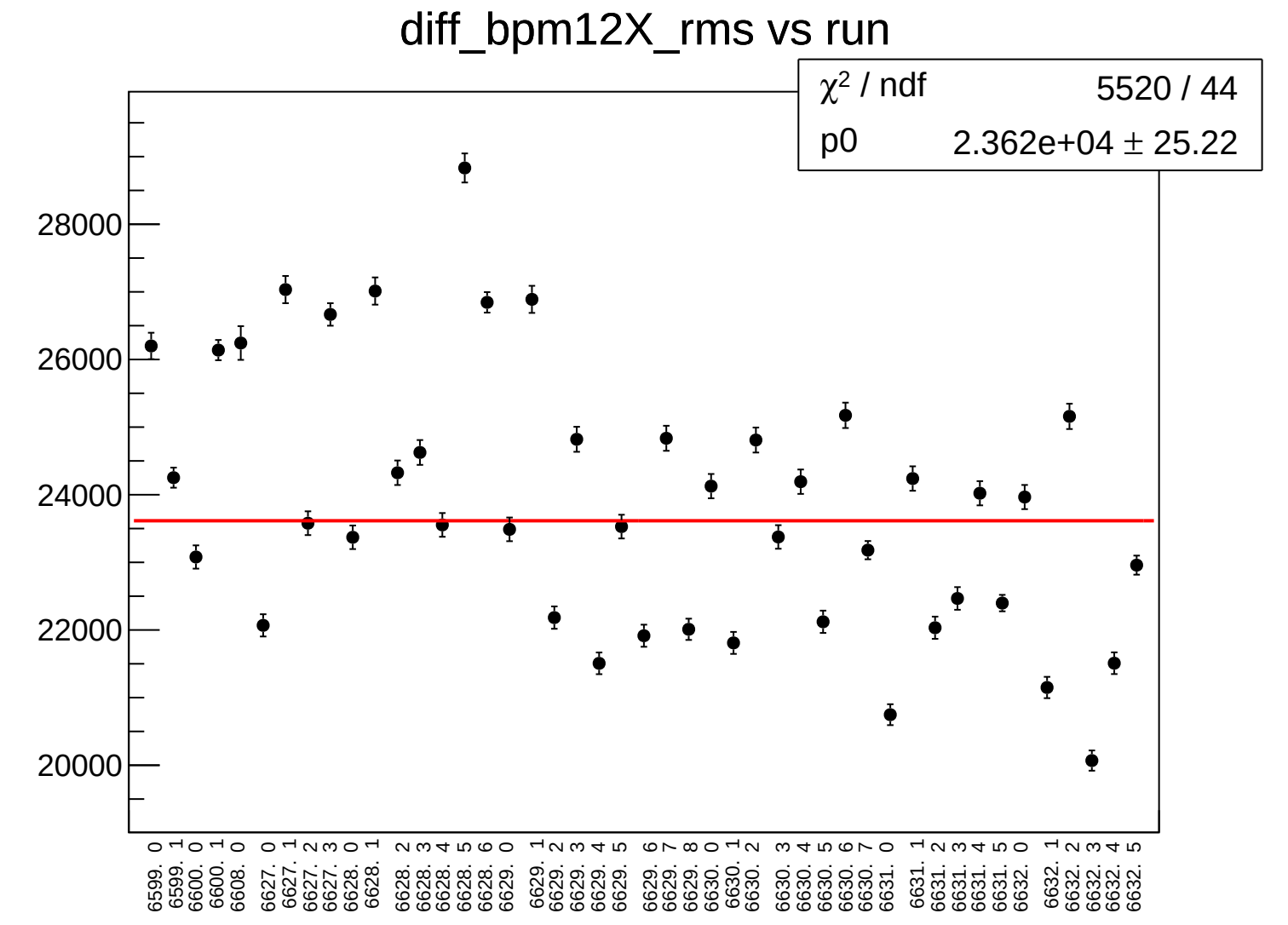

diff_bpm11Y_mean vs run
χ² / ndf 56.24 / 44
p0 2.383 ± 13.99
300
200
100
0
−100
−200
−300
−400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −225.3
Std Dev 0
2
1
0
−1
−2

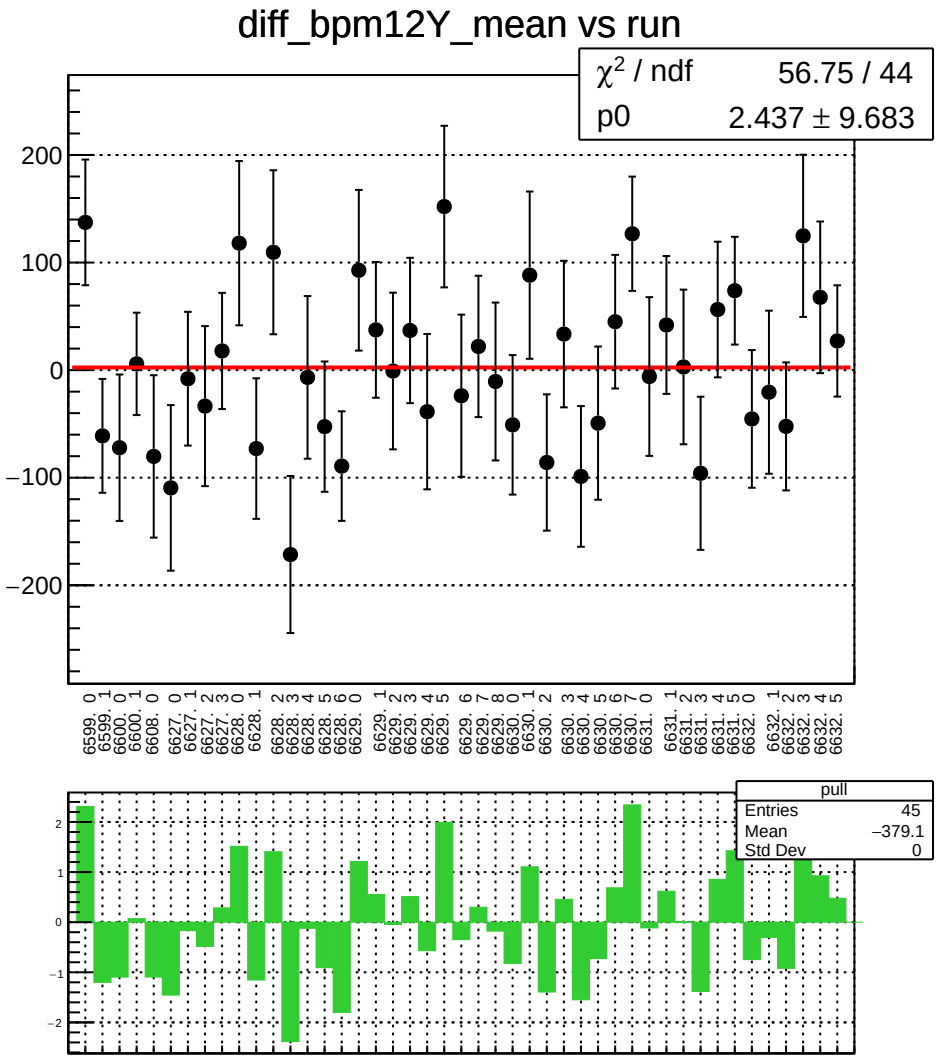

pull1D
Entries 45
Mean −0.009091
Std Dev 1.118
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

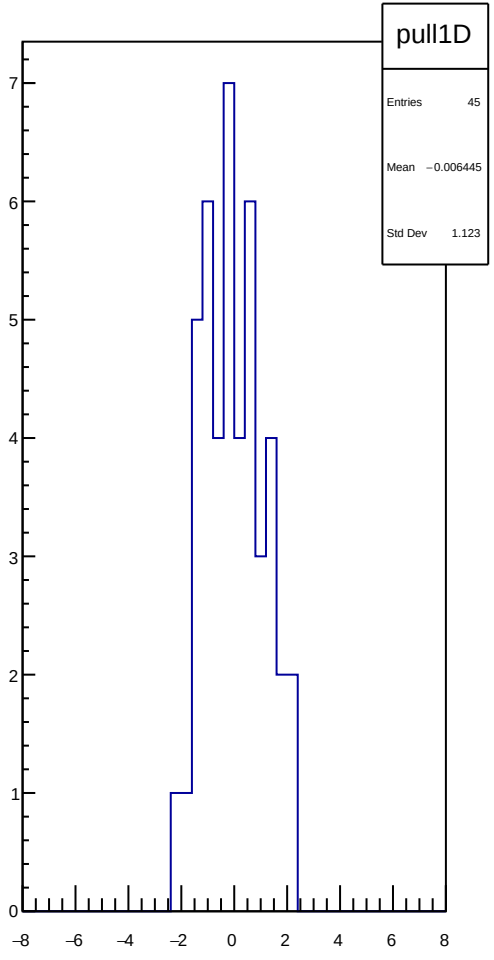

diff_bpm11Y_rms vs run
χ² / ndf 7114 / 44
p0 9255 ± 9.891
11000
10500
10000
9500
9000
8500
8000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

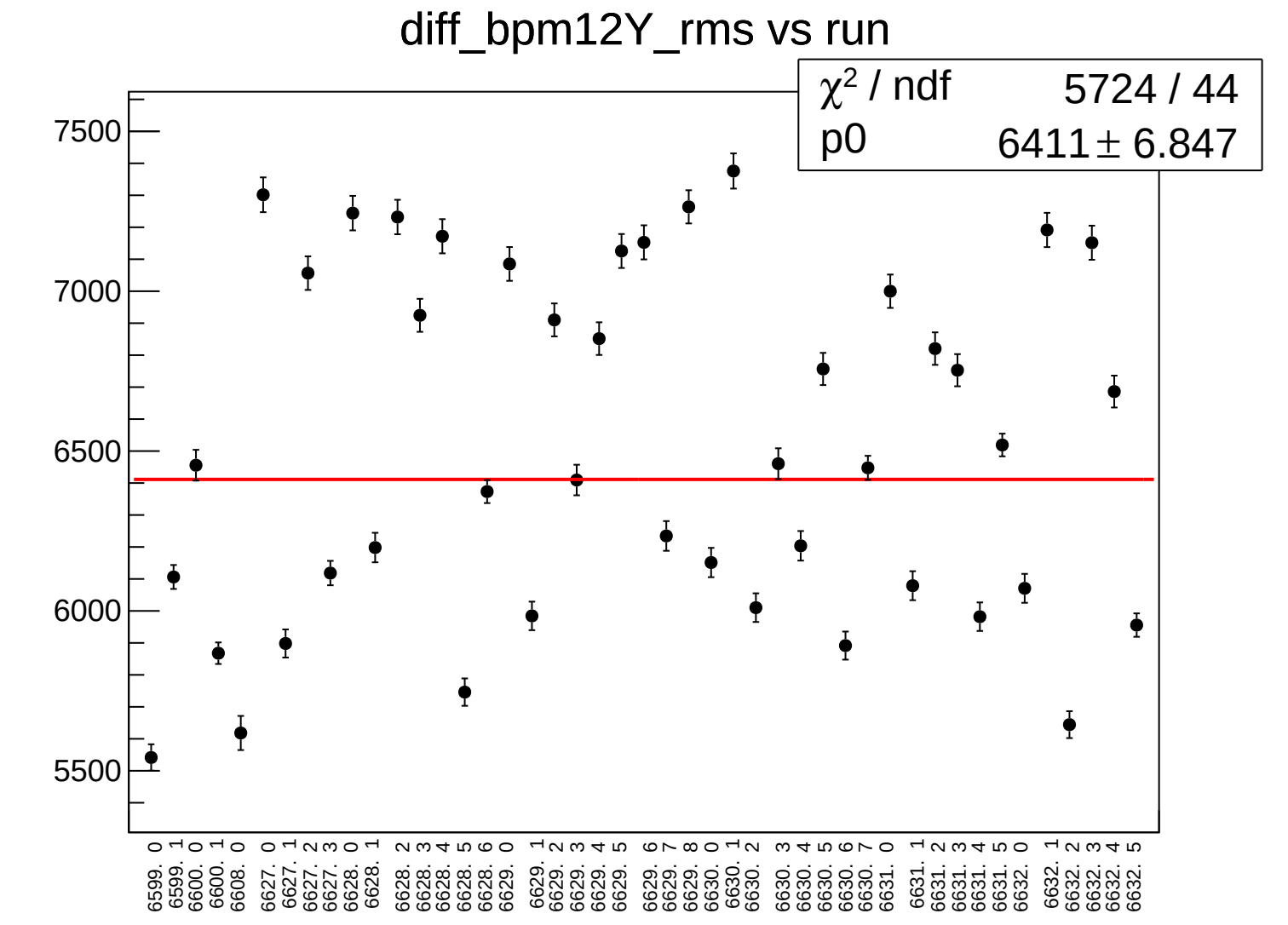

diff_bpm12X_mean vs run
χ² / ndf 59.61 / 44
p0 33.81 ± 35.66
1000
800
600
400
200
0
−200
−400
−600
−800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −85.88
Std Dev 0
2
1
0
−1
−2

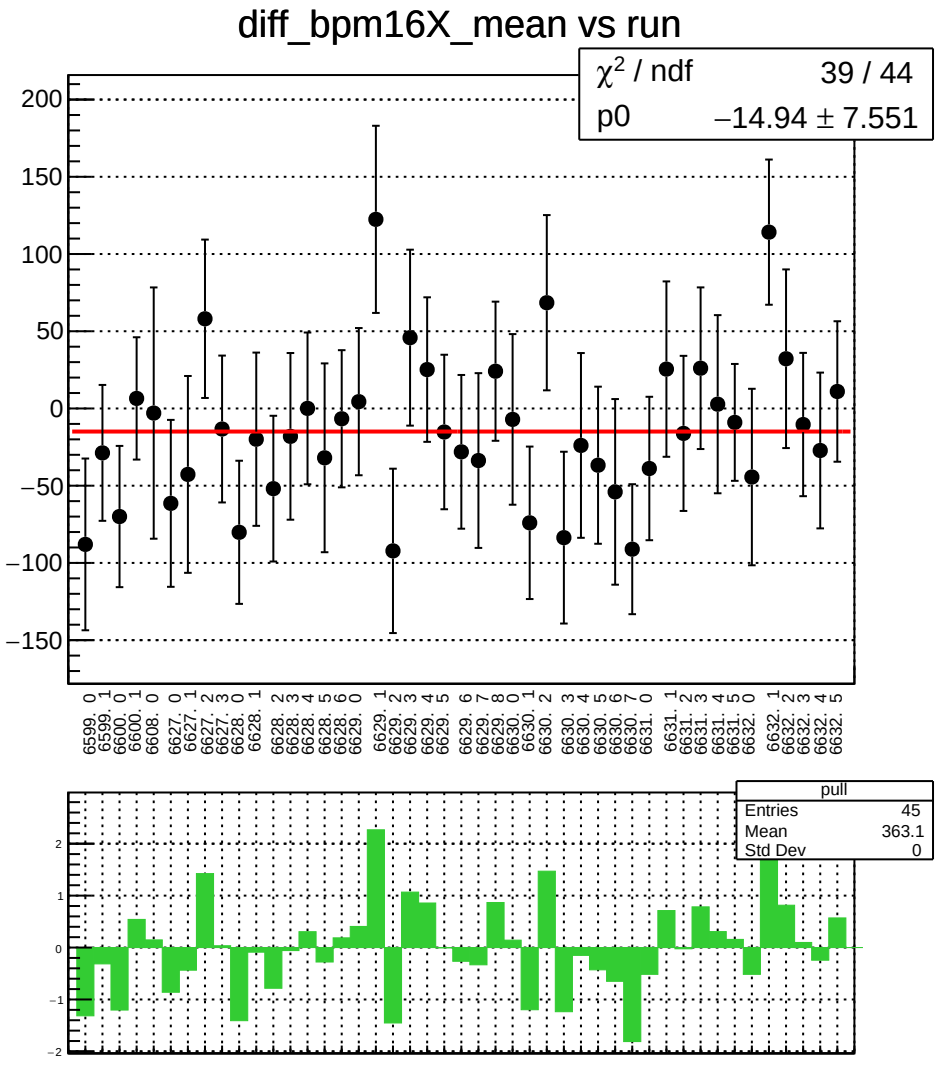

pull1D
Entries 45
Mean −0.01157
Std Dev 1.151
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

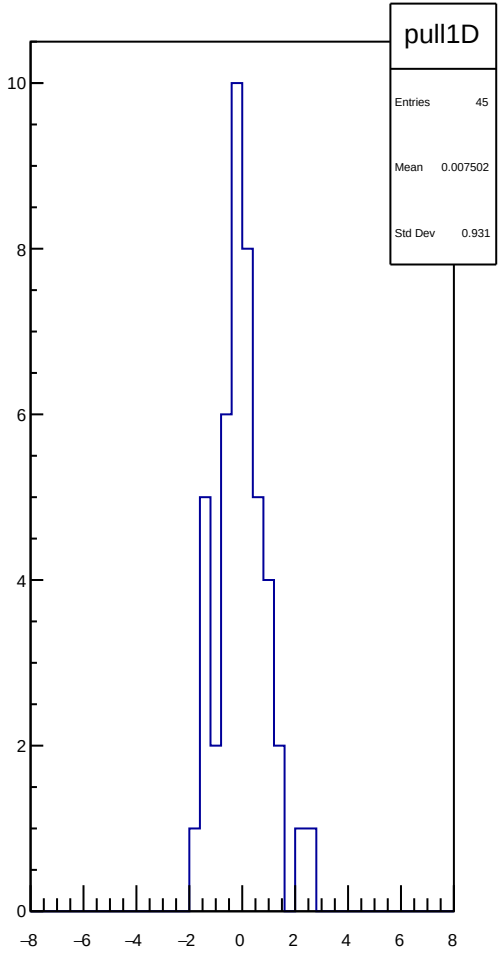

diff_bpm12X_rms vs run
χ² / ndf 5520 / 44
p0 2.362e+04 ± 25.22
28000
26000
24000
22000
20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

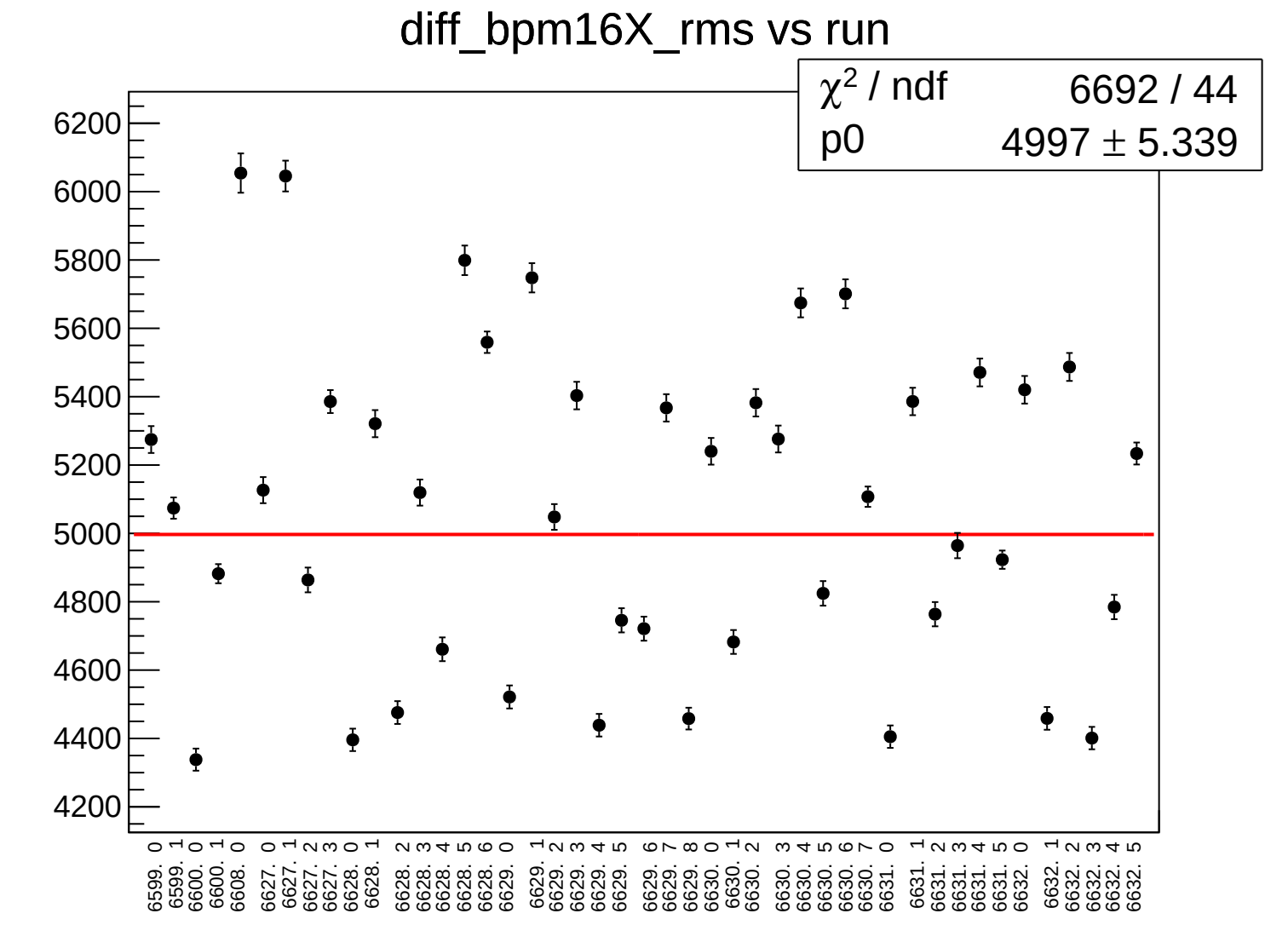

diff_bpm12Y_mean vs run
χ² / ndf 56.75 / 44
p0 2.437 ± 9.683
200
100
0
−100
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −379.1
Std Dev 0
2
1
0
−1
−2

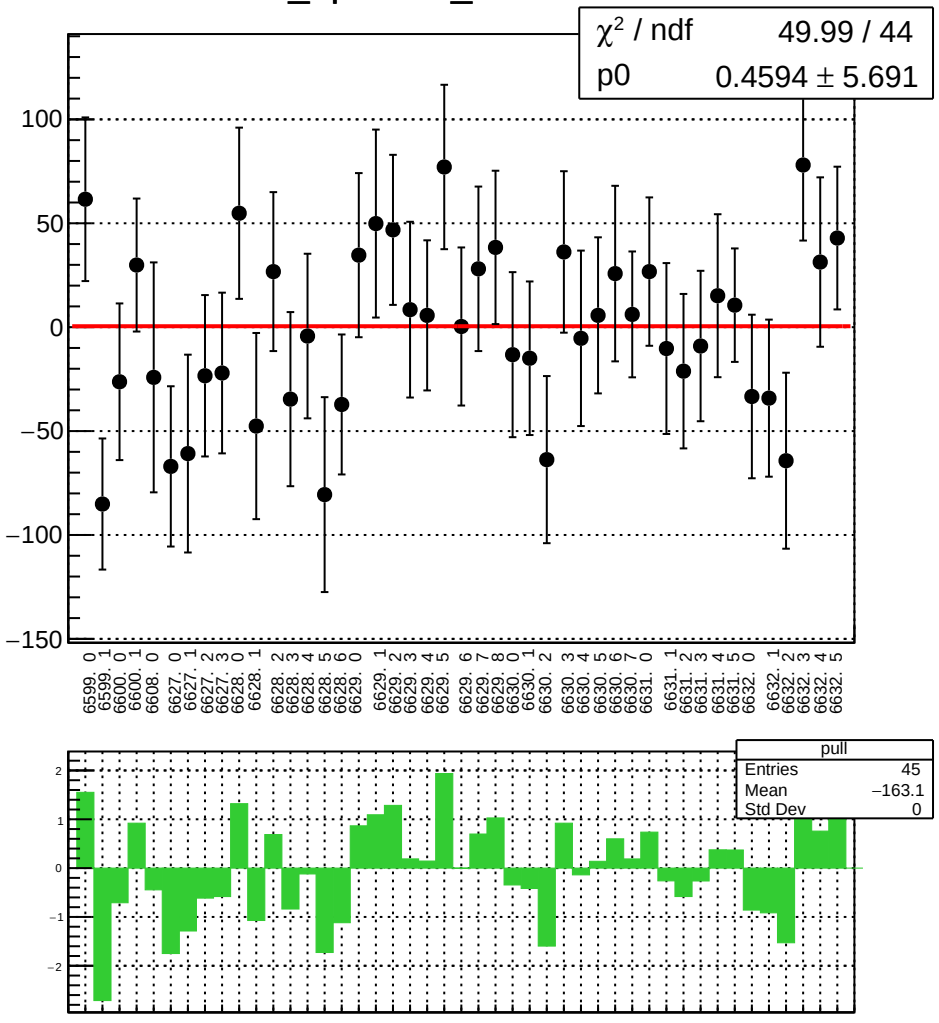

pull1D
Entries 45
Mean −0.006445
Std Dev 1.123
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

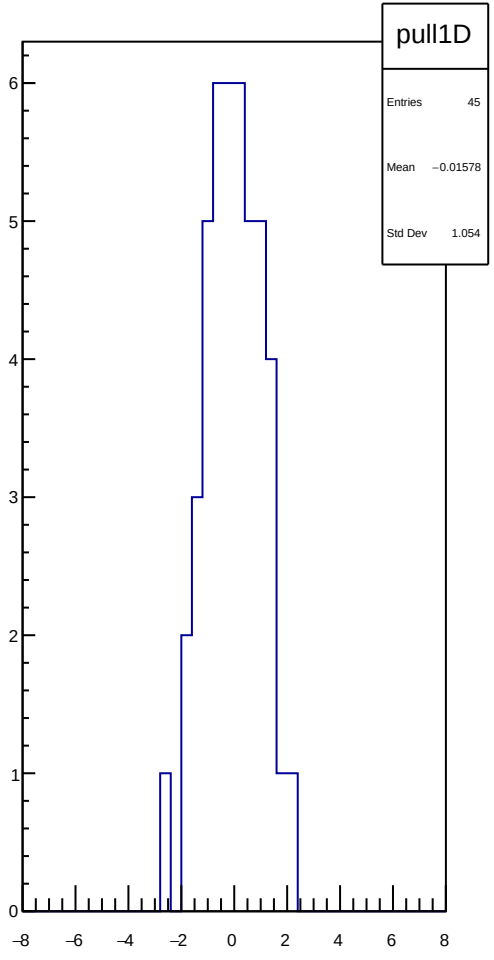

diff_bpm12Y_rms vs run
χ² / ndf 5724 / 44
p0 6411 ± 6.847
7500
7000
6500
6000
5500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

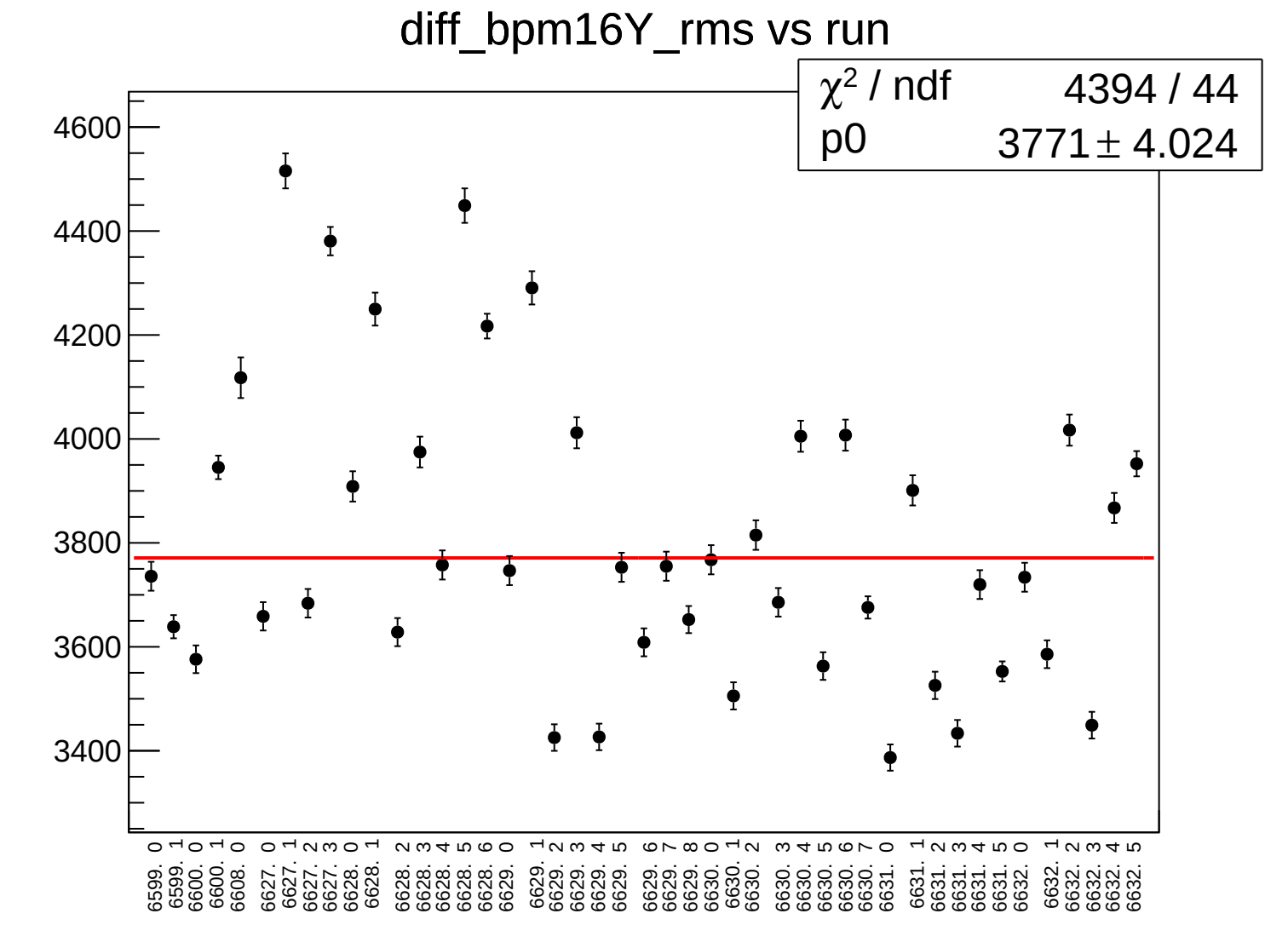

diff_bpm16X_mean vs run
χ² / ndf 39 / 44
p0 −14.94 ± 7.551
200
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 363.1
Std Dev 0
2
1
0
−1
−2

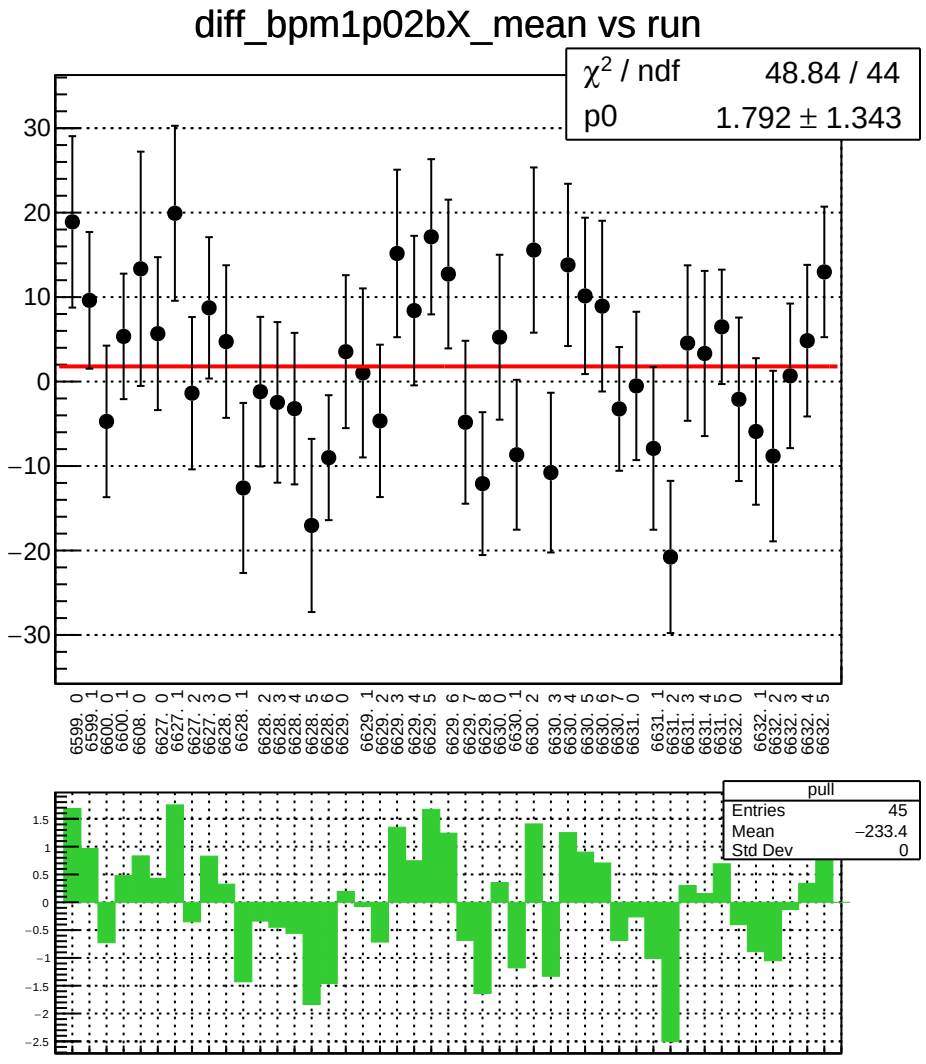

pull1D
Entries 45
Mean 0.007502
Std Dev 0.931
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

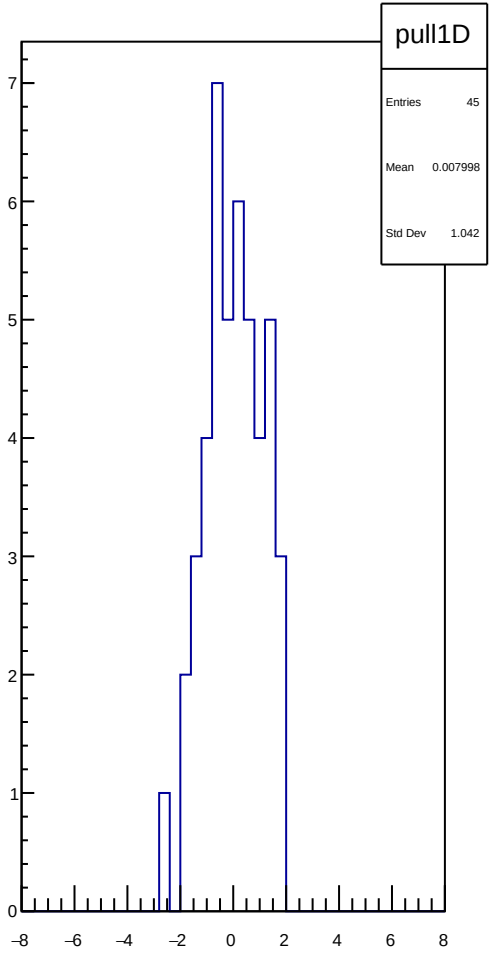

diff_bpm16X_rms vs run
χ² / ndf 6692 / 44
p0 4997 ± 5.339
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

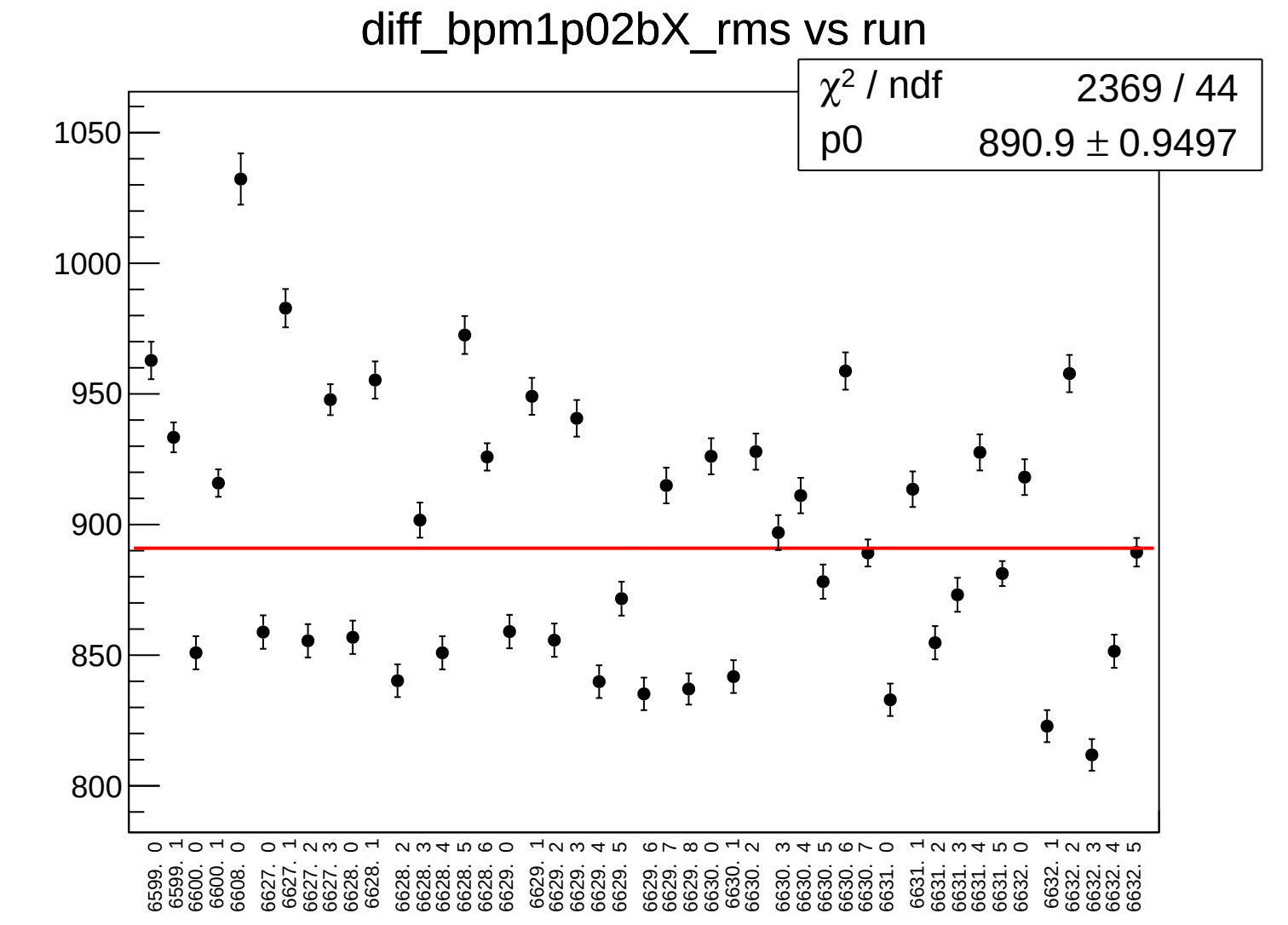

diff_bpm16Y_mean vs run
χ² / ndf 49.99 / 44
p0 0.4594 ± 5.691
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −163.1
Std Dev 0
2
1
0
−1
−2

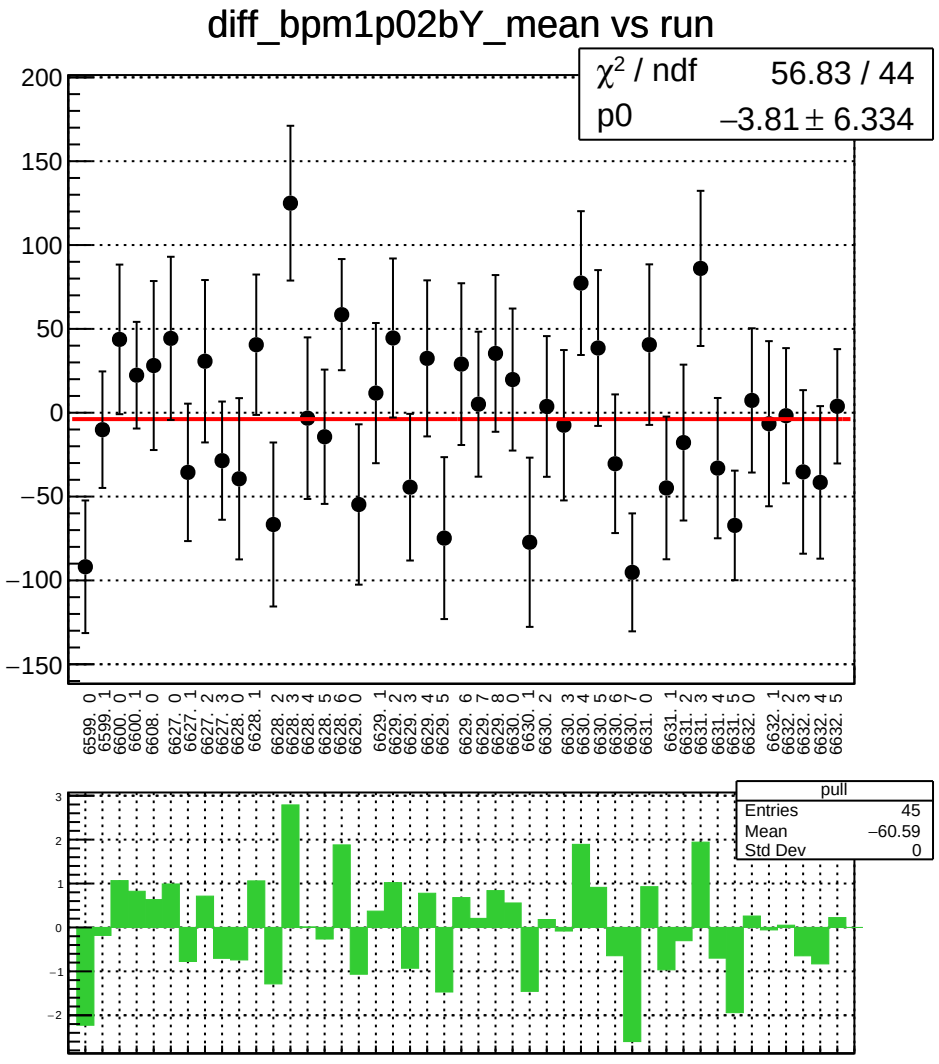

pull1D
Entries 45
Mean −0.01578
Std Dev 1.054
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

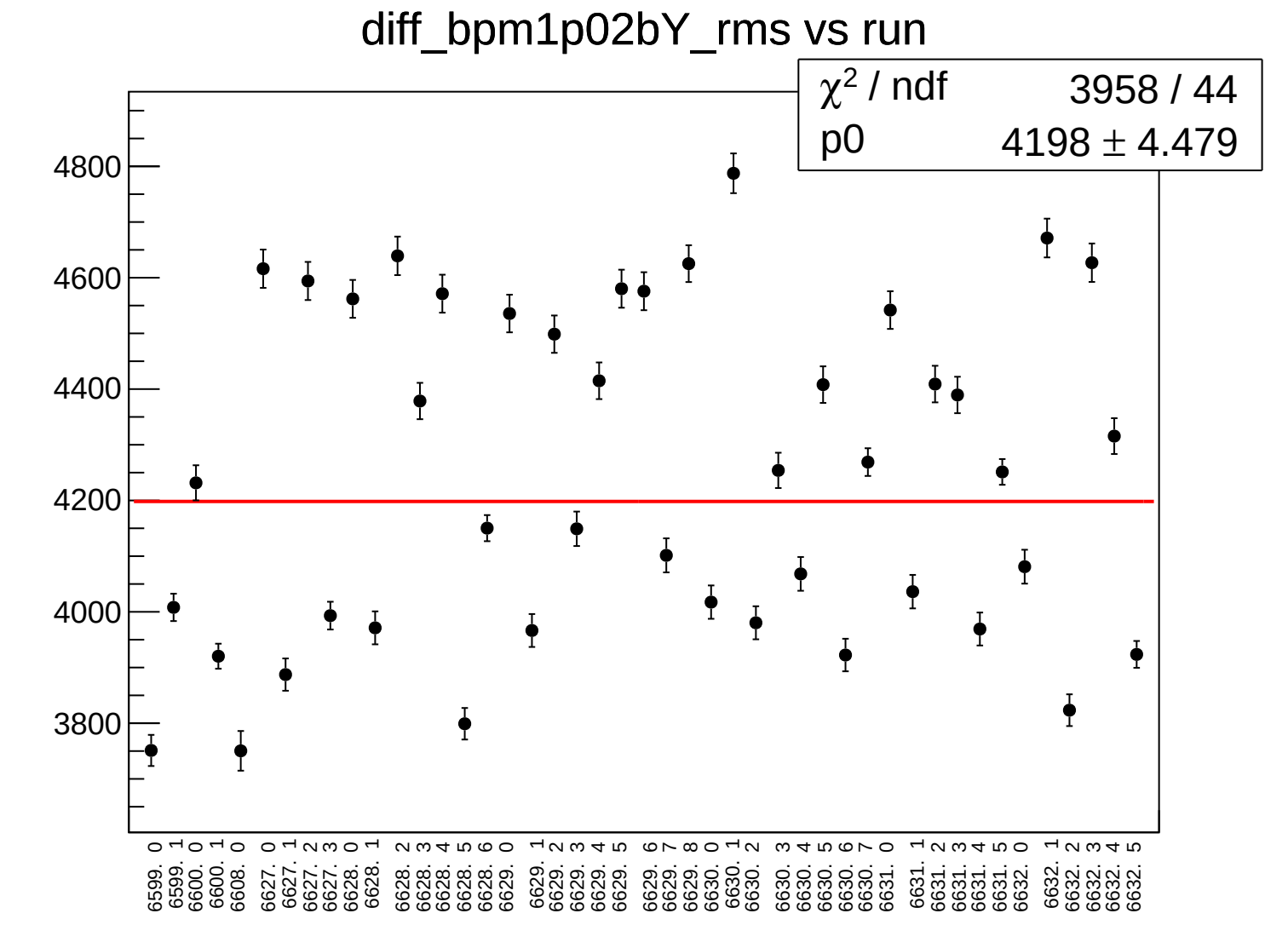

diff_bpm16Y_rms vs run
χ² / ndf 4394 / 44
p0 3771 ± 4.024
4600
4400
4200
4000
3800
3600
3400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

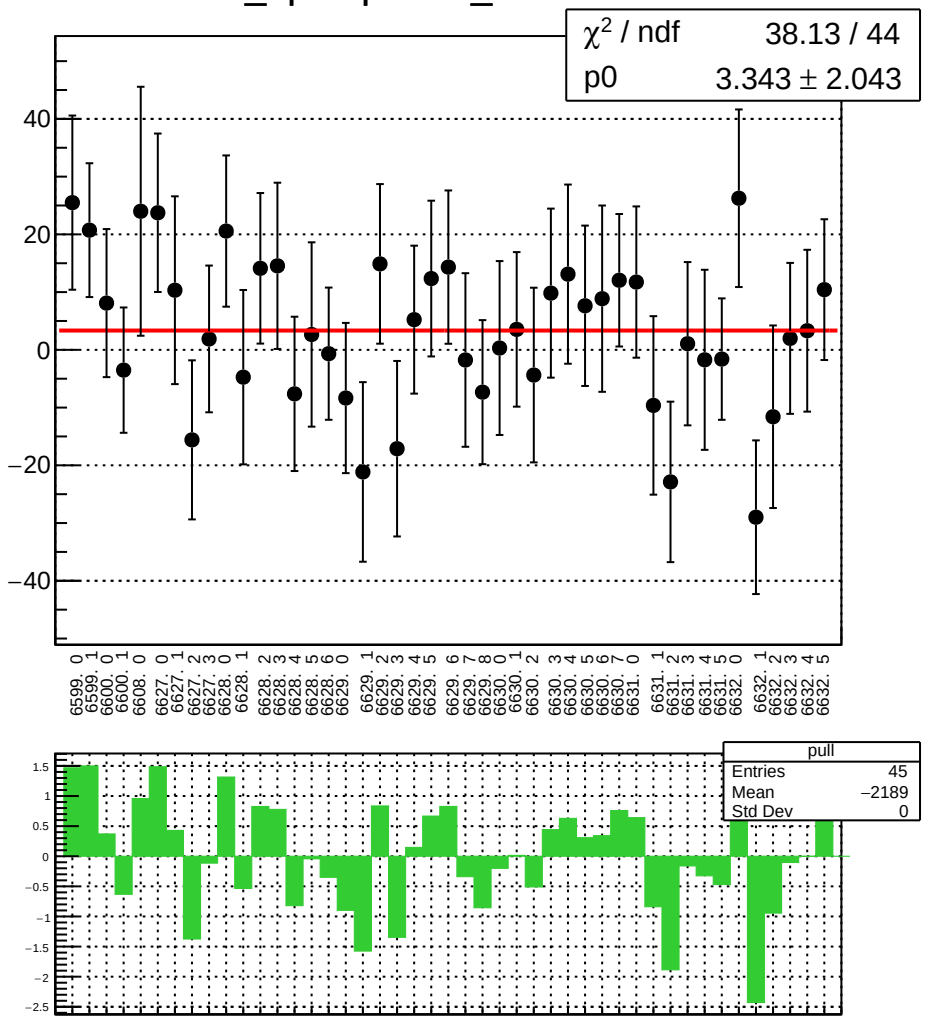

diff_bpm1p02bX_mean vs run
χ² / ndf 48.84 / 44
p0 1.792 ± 1.343
30
20
10
0
−10
−20
−30
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −233.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

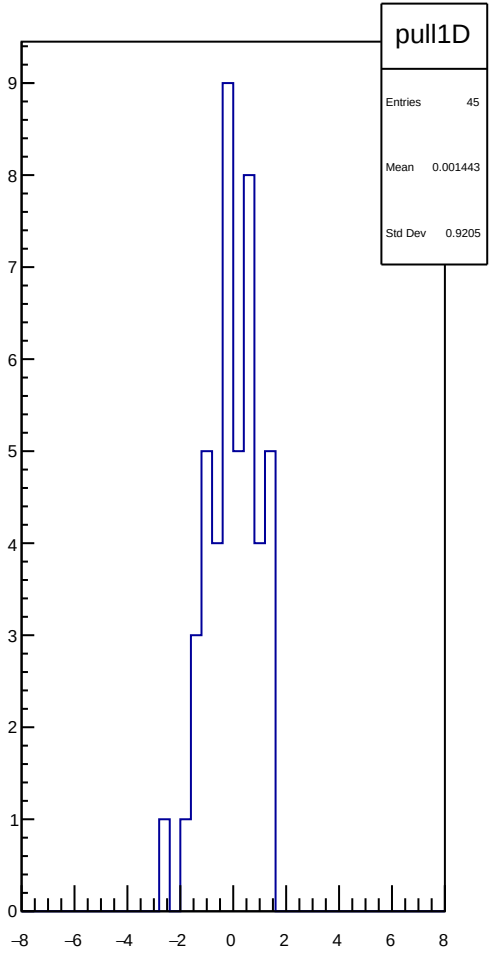

pull1D
Entries 45
Mean 0.007998
Std Dev 1.042
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

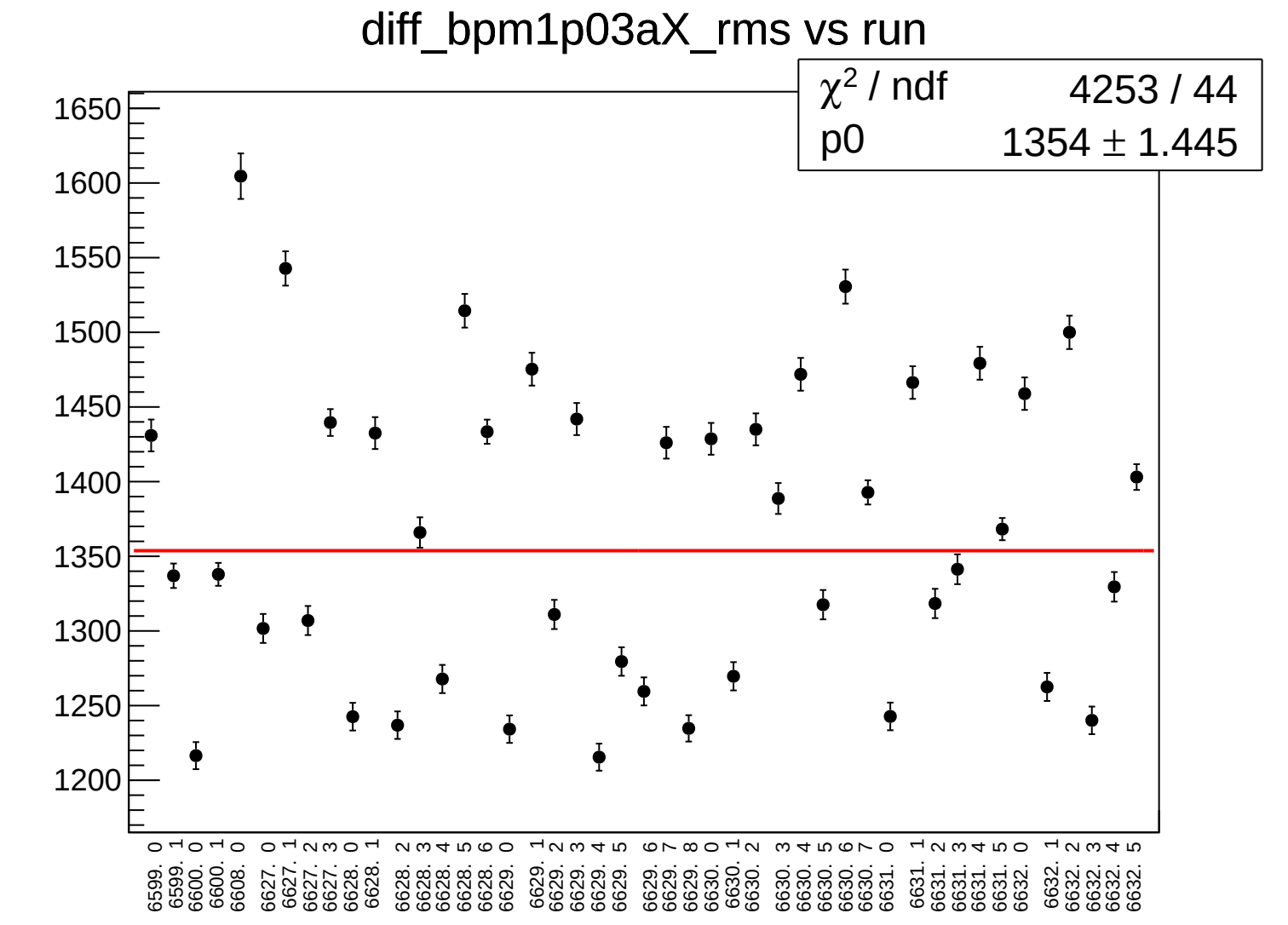

diff_bpm1p02bX_rms vs run
χ² / ndf 2369 / 44
p0 890.9 ± 0.9497
1050
1000
950
900
850
800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

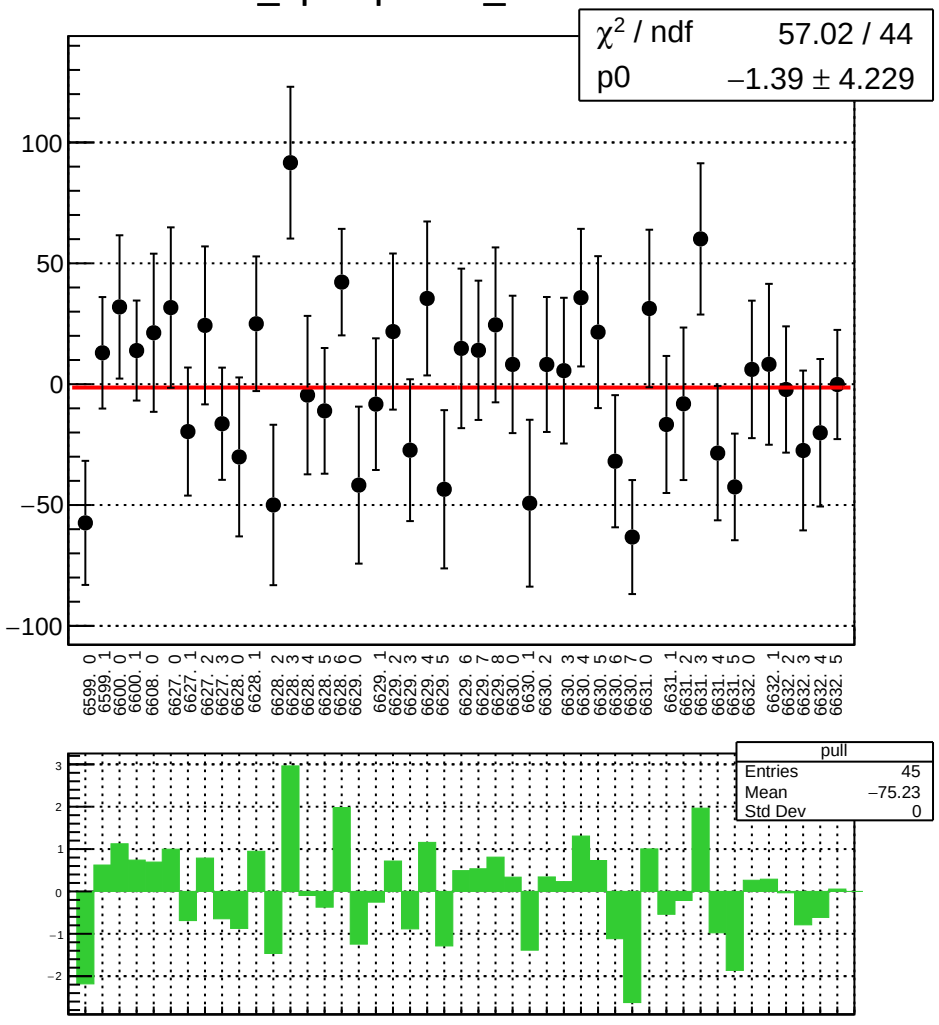

diff_bpm1p02bY_mean vs run
χ² / ndf 56.83 / 44
p0 −3.81 ± 6.334
200
150
100
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −60.59
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.02125
Std Dev 1.124
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

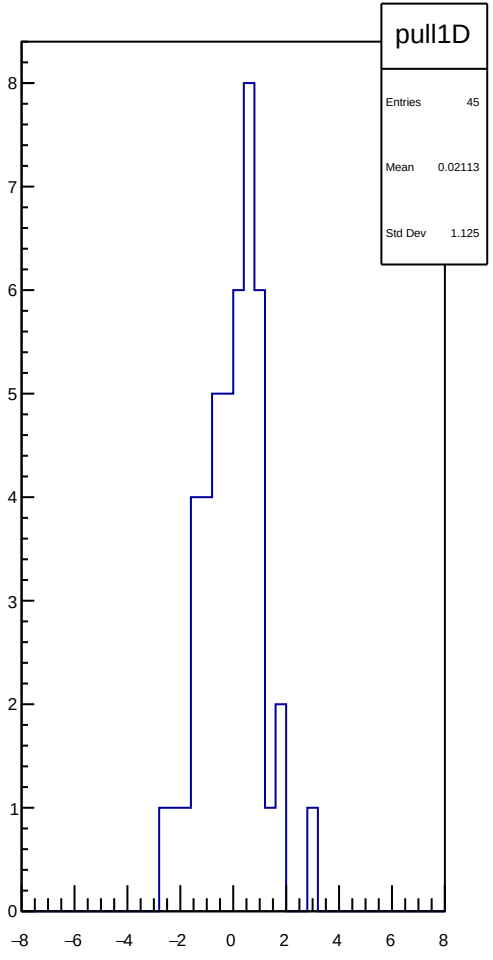

diff_bpm1p02bY_rms vs run
χ² / ndf 3958 / 44
p0 4198 ± 4.479
4800
4600
4400
4200
4000
3800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

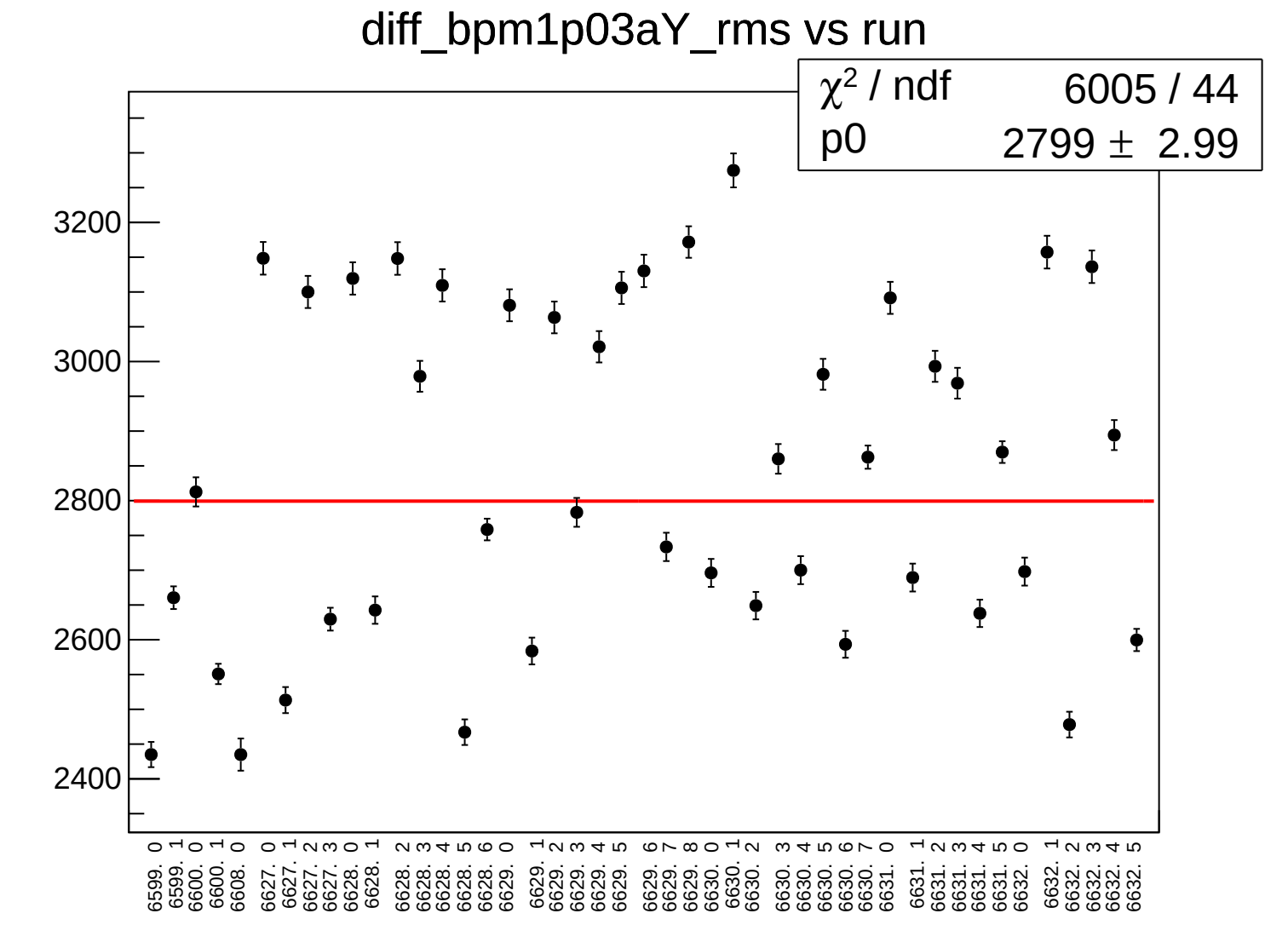

diff_bpm1p03aX_mean vs run
χ² / ndf 38.13 / 44
p0 3.343 ± 2.043
40
20
0
−20
−40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −2189
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

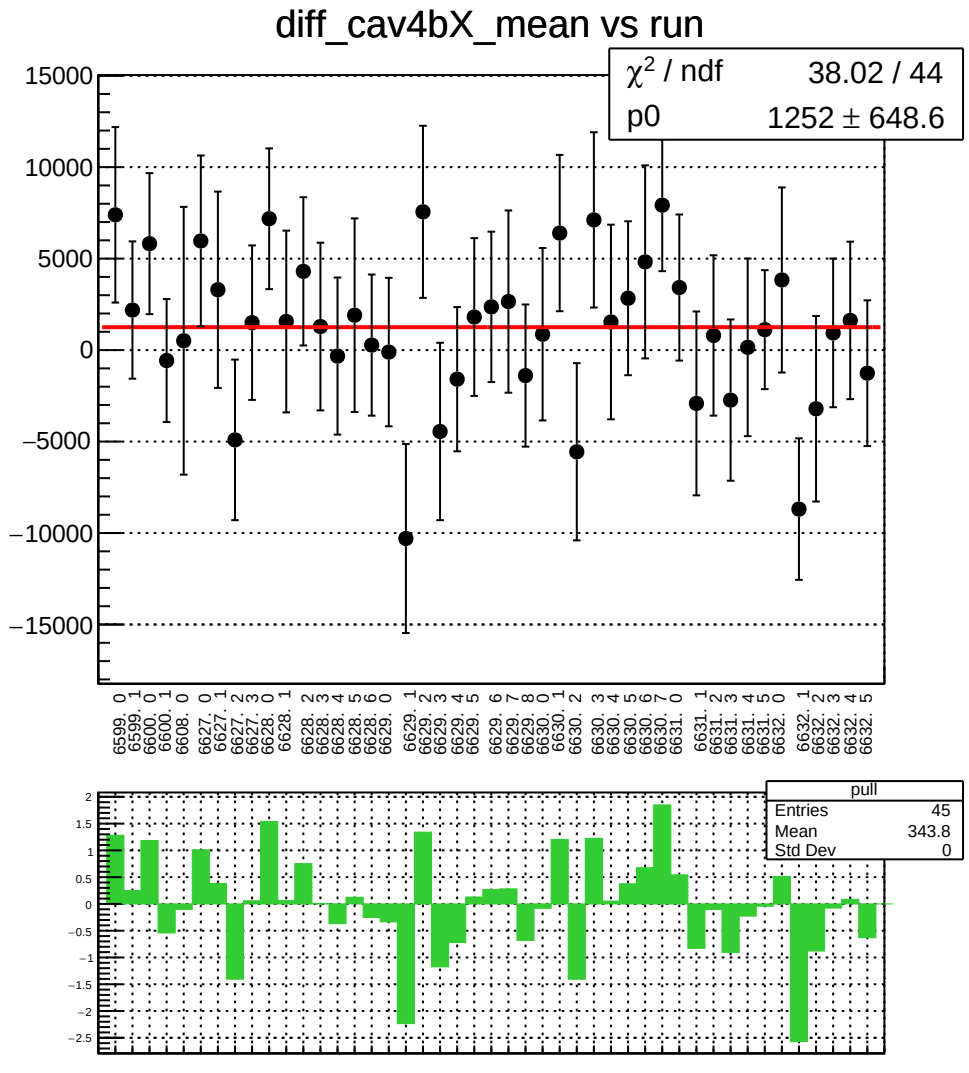

pull1D
Entries 45
Mean 0.001443
Std Dev 0.9205
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

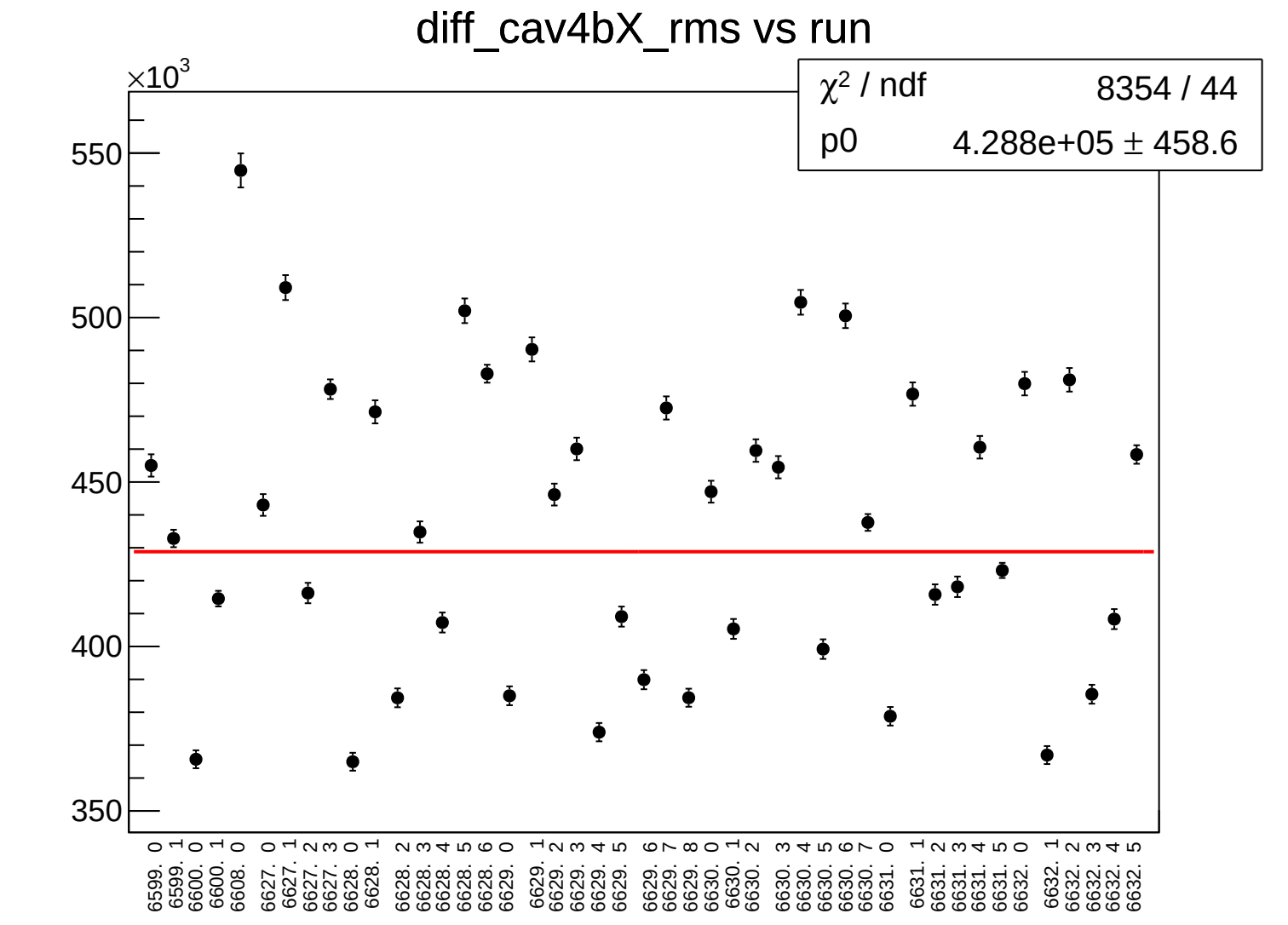

diff_bpm1p03aX_rms vs run
χ² / ndf 4253 / 44
p0 1354 ± 1.445
1650
1600
1550
1500
1450
1400
1350
1300
1250
1200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

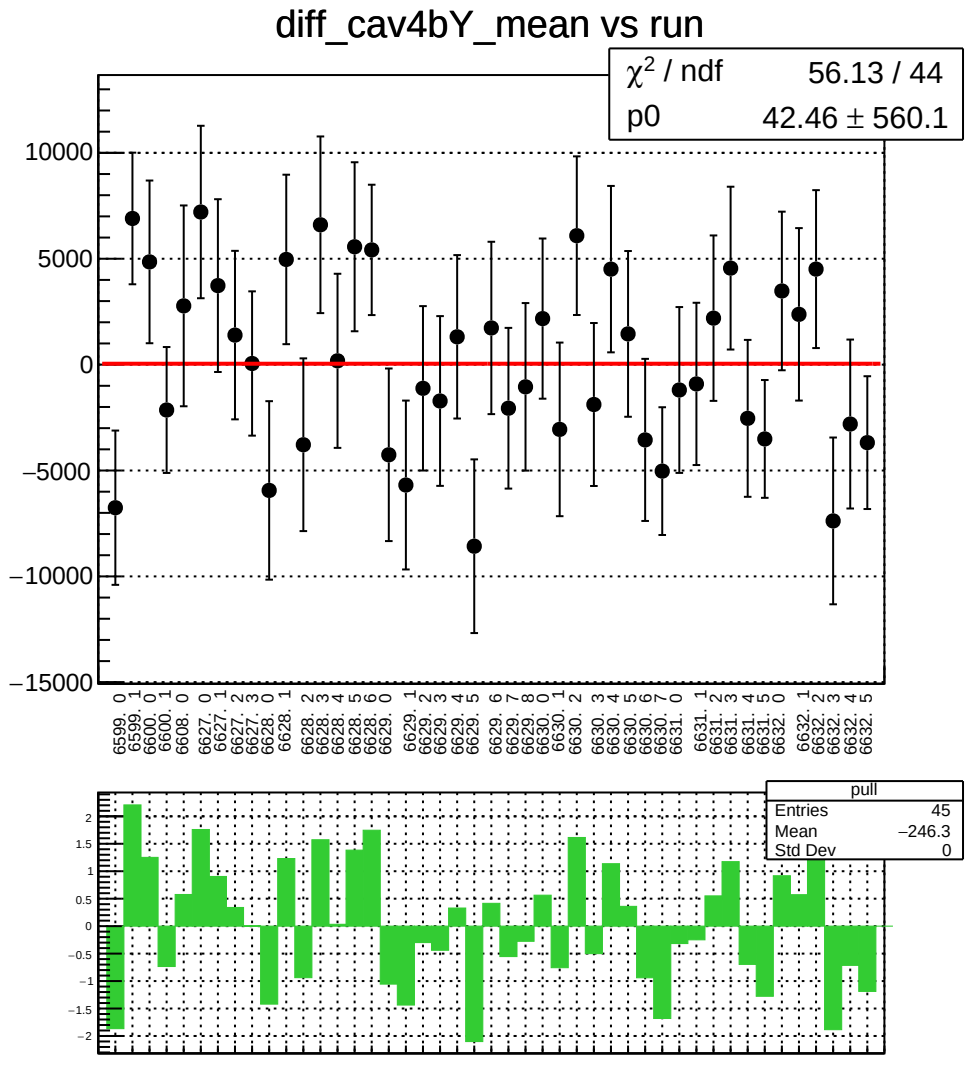

diff_bpm1p03aY_mean vs run
χ² / ndf 57.02 / 44
p0 −1.39 ± 4.229
100
50
0
−50
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −75.23
Std Dev 0
3
2
1
0
−1
−2

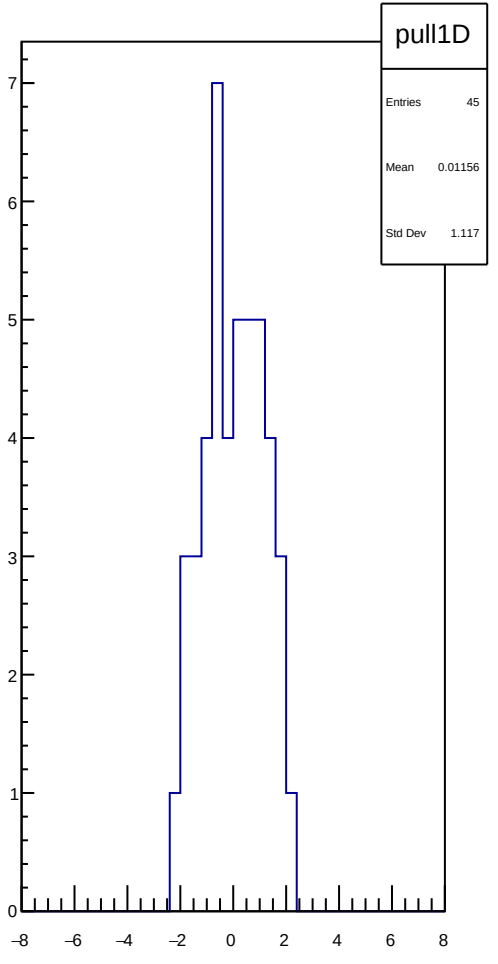

pull1D
Entries 45
Mean 0.02113
Std Dev 1.125
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

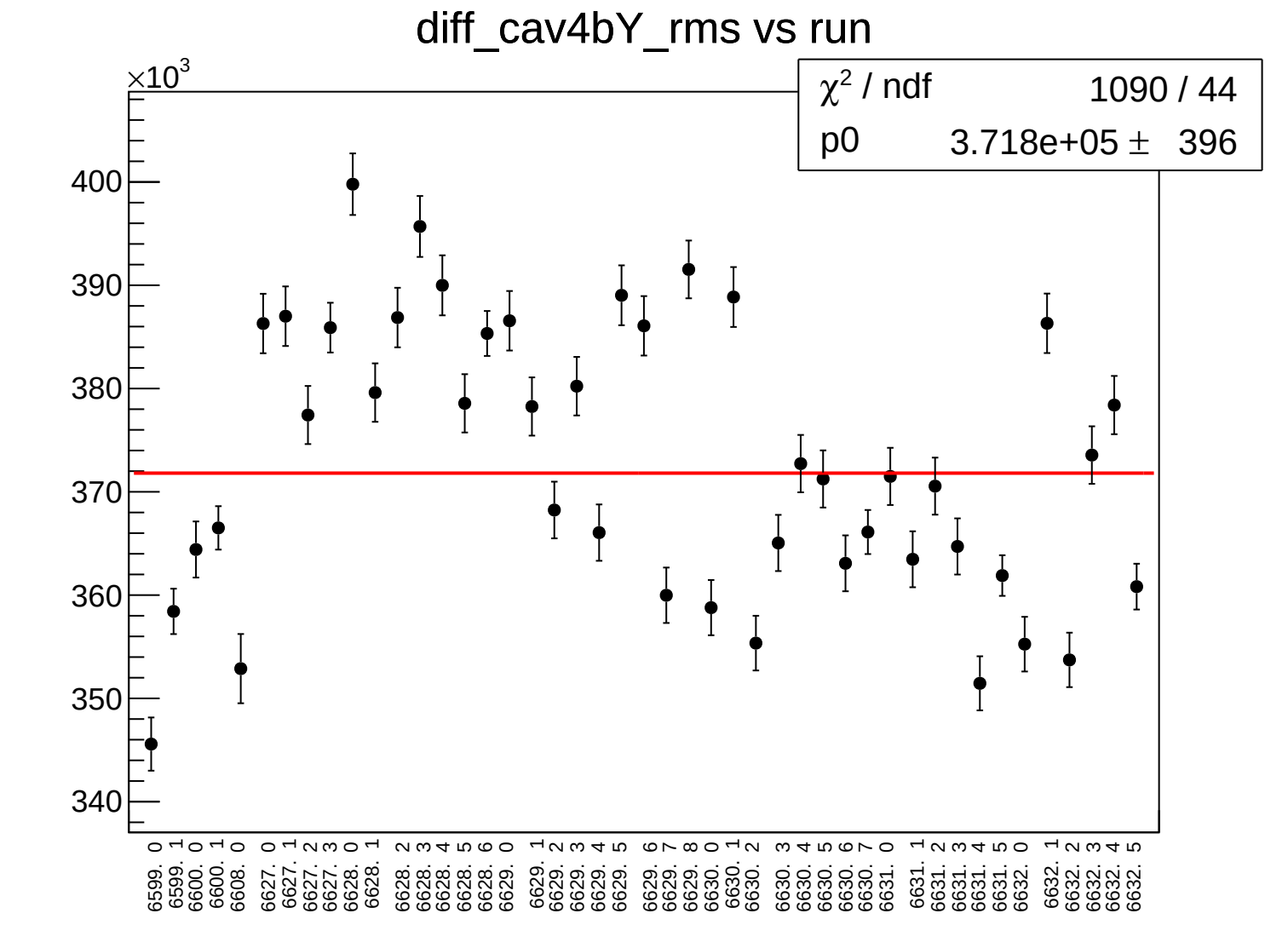

diff_bpm1p03aY_rms vs run
χ² / ndf 6005 / 44
p0 2799 ± 2.99
3200
3000
2800
2600
2400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

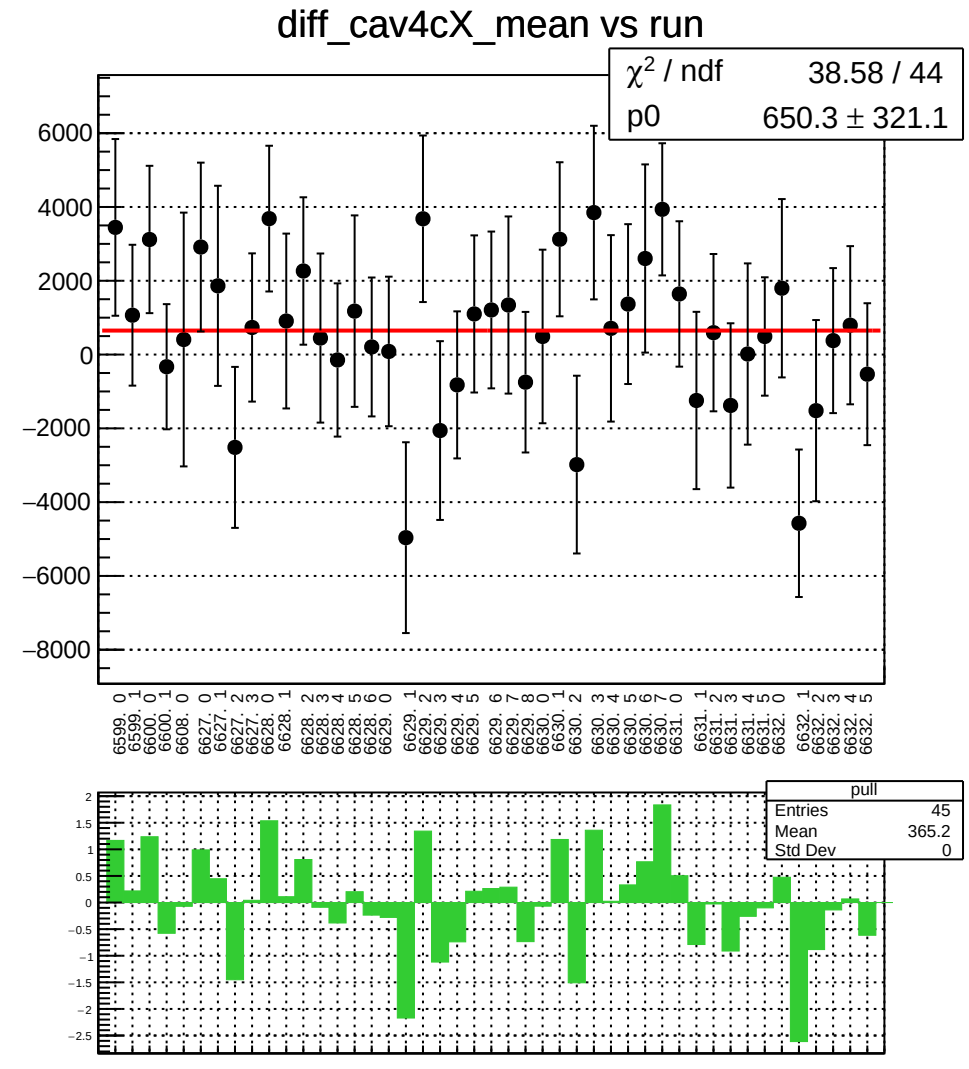

diff_cav4bX_mean vs run
χ² / ndf 38.02 / 44
p0 1252 ± 648.6
15000
10000
5000
0
−5000
−10000
−15000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 343.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.008202
Std Dev 0.9191
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

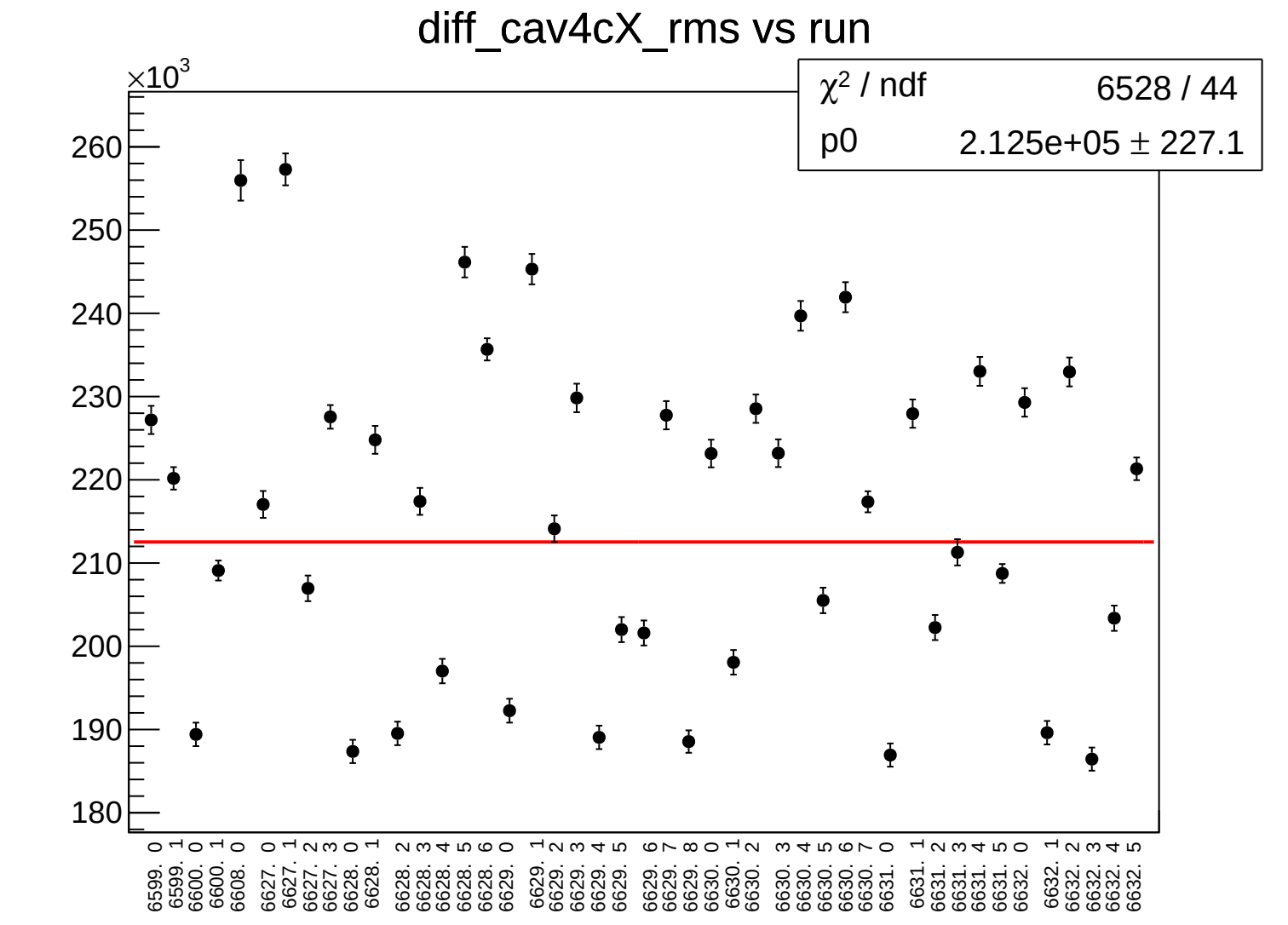

diff_cav4bX_rms vs run
×10^3
550
500
450
400
350
χ² / ndf 8354 / 44
p0 4.288e+05 ± 458.6
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

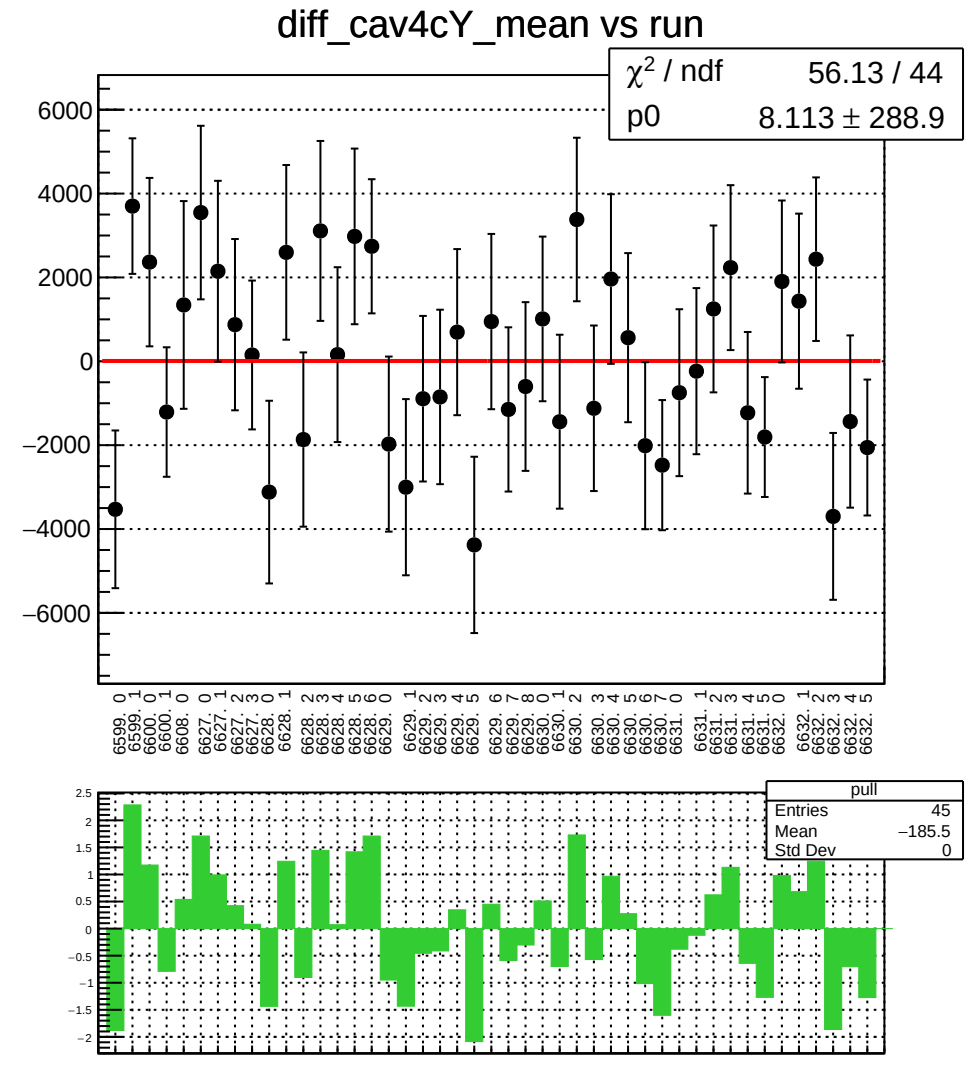

diff_cav4bY_mean vs run
χ² / ndf 56.13 / 44
p0 42.46 ± 560.1
10000
5000
0
−5000
−10000
−15000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −246.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

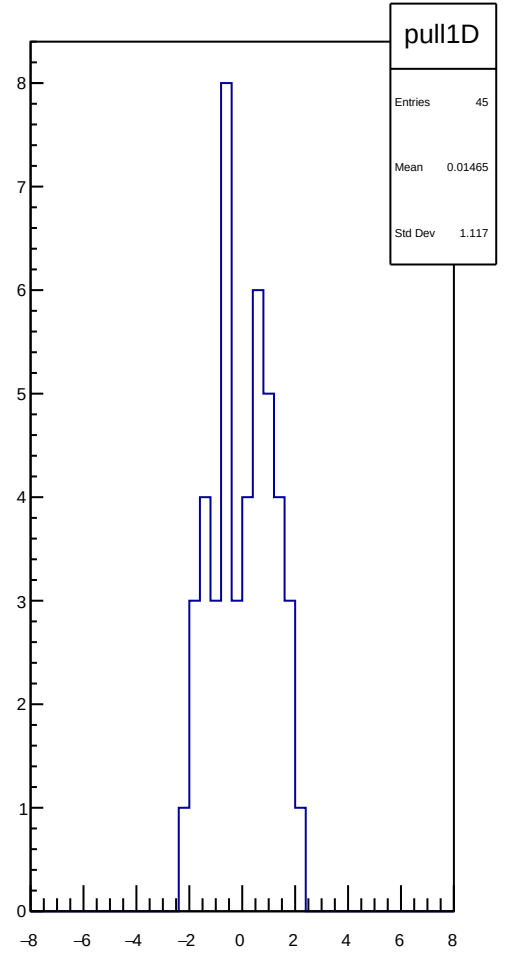

pull1D
Entries 45
Mean 0.01156
Std Dev 1.117
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

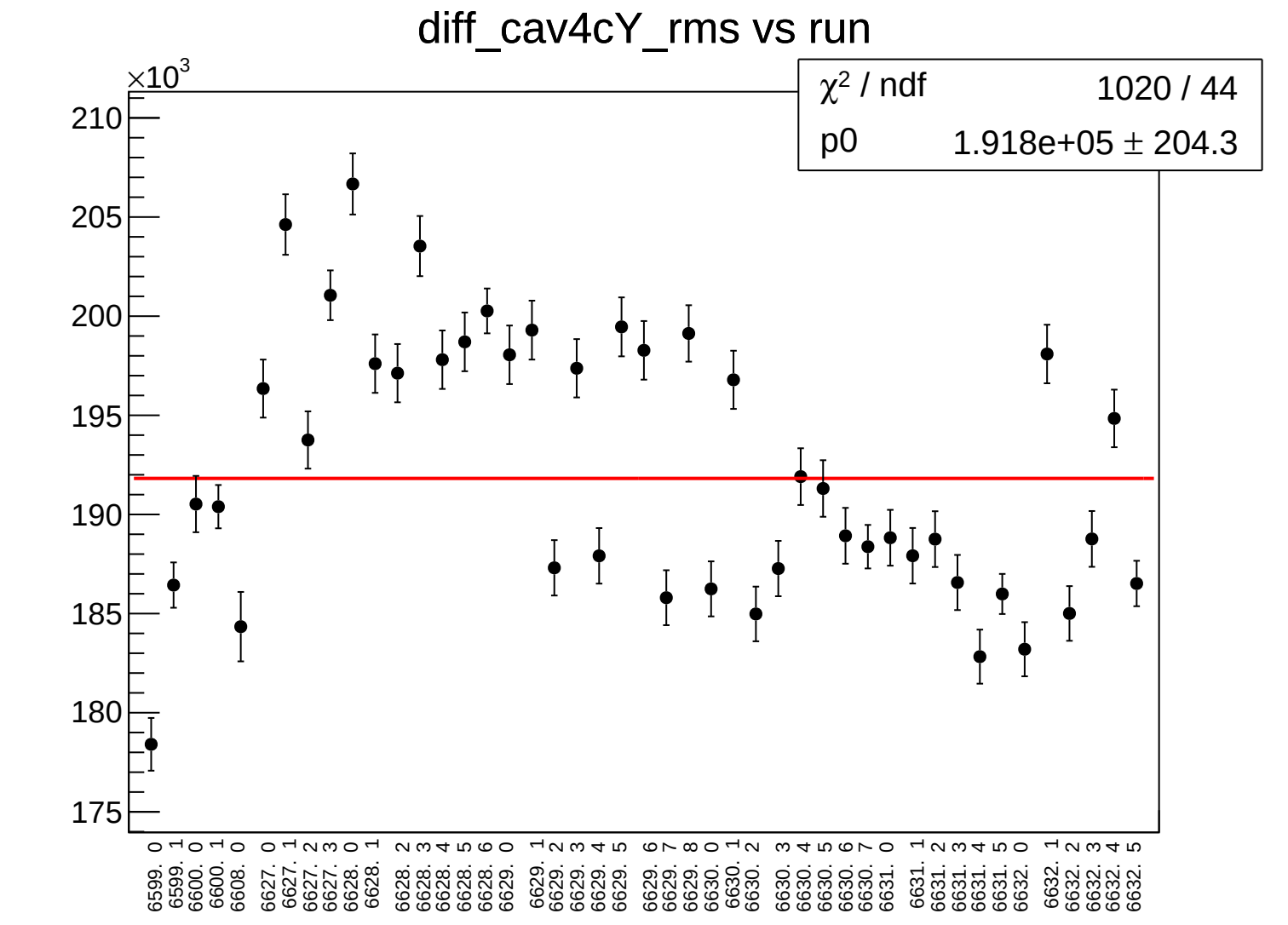

diff_cav4bY_rms vs run
×10^3
χ^2 / ndf 1090 / 44
p0 3.718e+05 ± 396
400
390
380
370
360
350
340
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

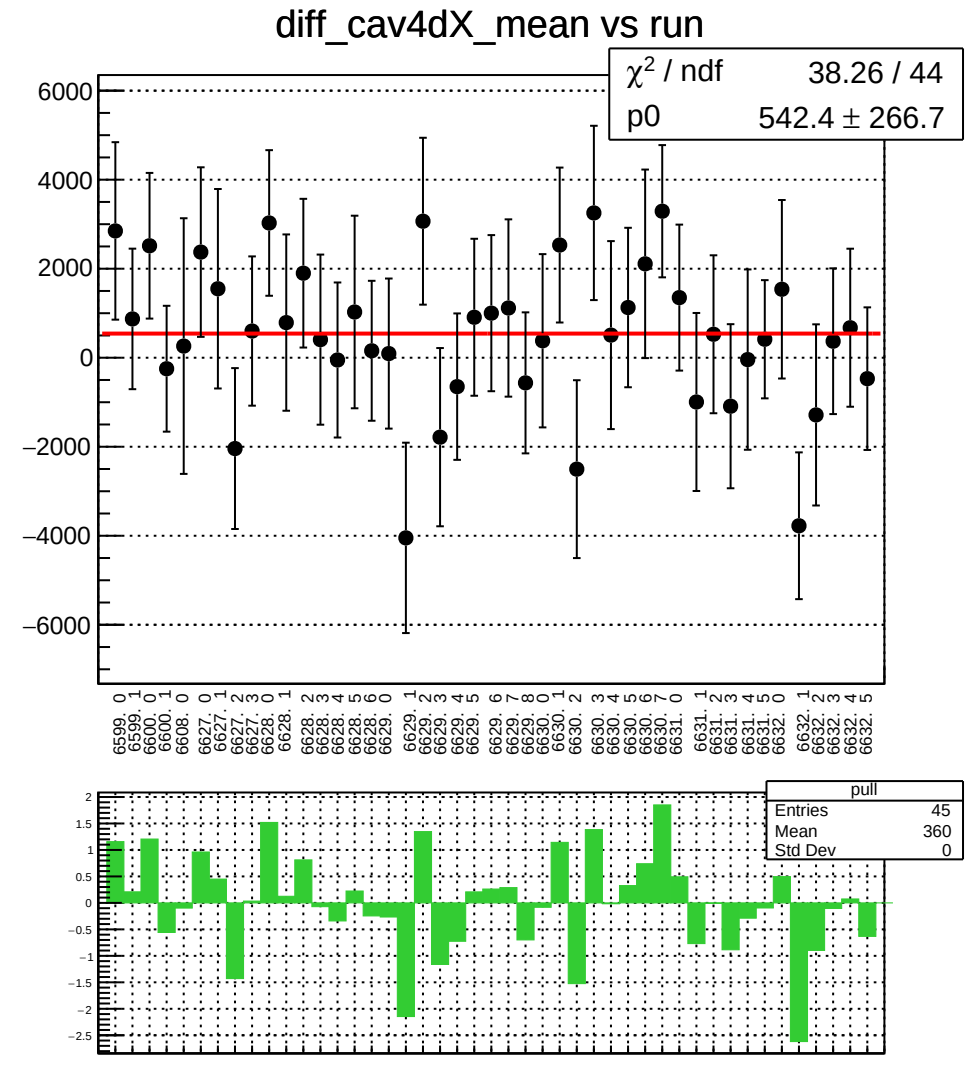

diff_cav4cX_mean vs run
χ² / ndf 38.58 / 44
p0 650.3 ± 321.1
6000
4000
2000
0
−2000
−4000
−6000
−8000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 365.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.007825
Std Dev 0.9259
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

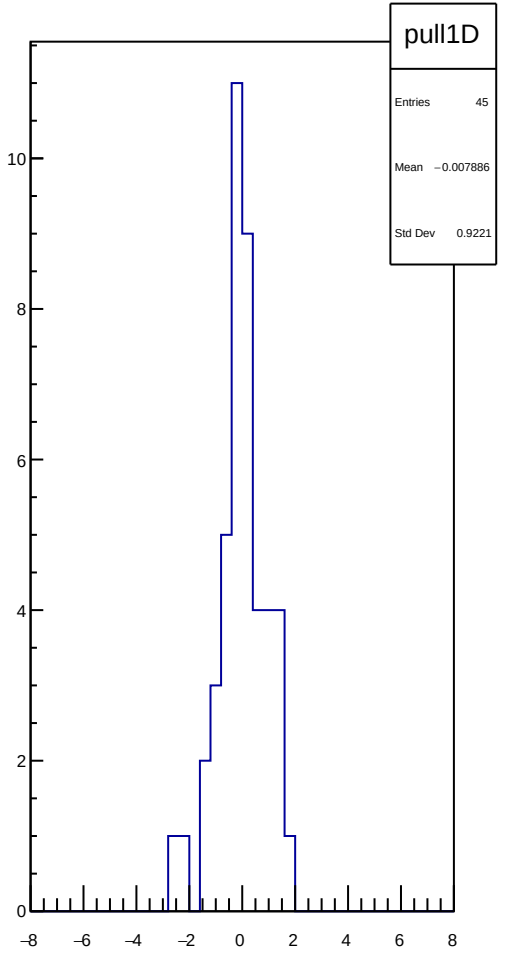

diff_cav4cX_rms vs run
×10^3
260
250
240
230
220
210
200
190
180
χ² / ndf 6528 / 44
p0 2.125e+05 ± 227.1
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

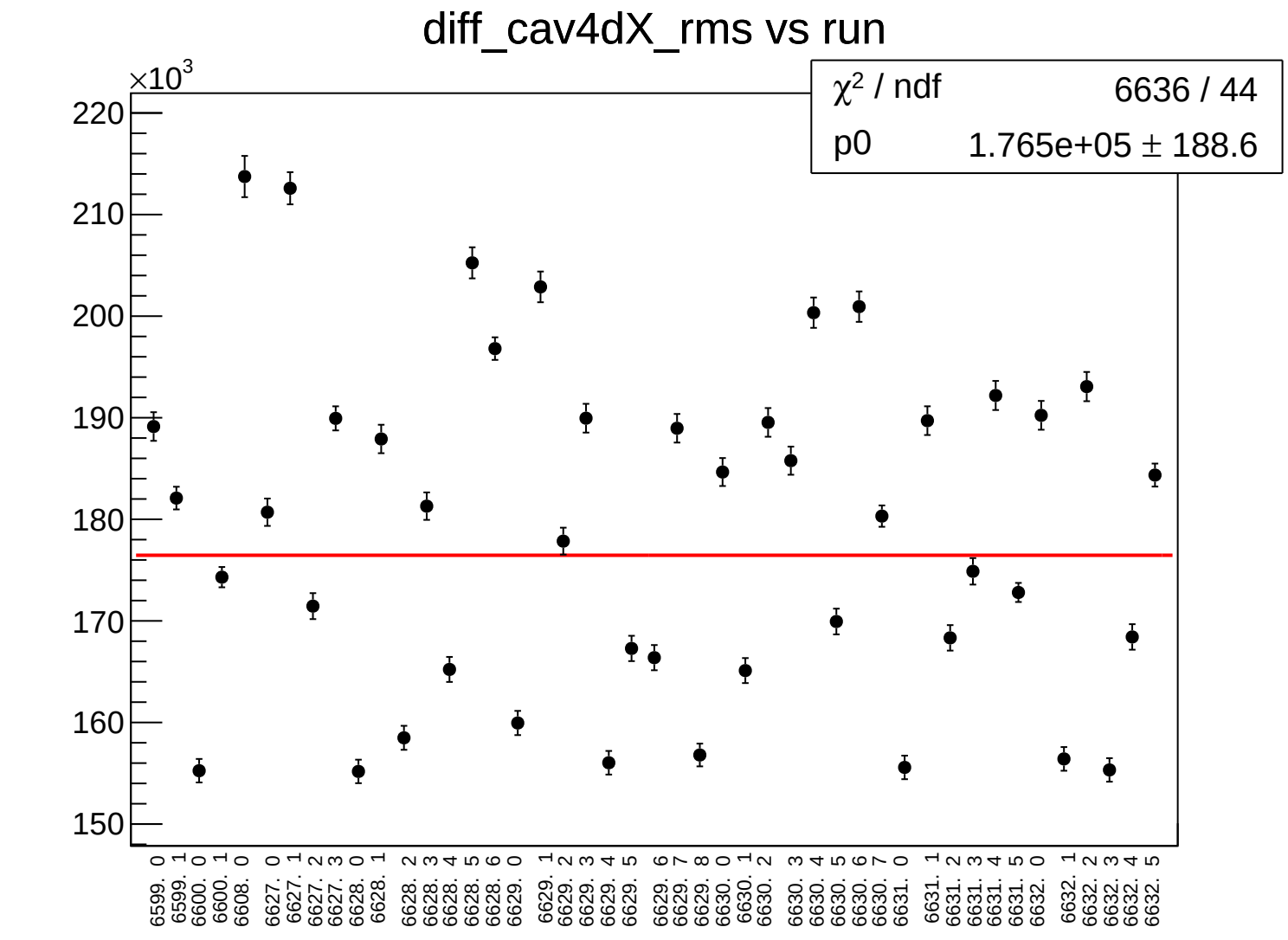

diff_cav4cY_mean vs run
χ² / ndf 56.13 / 44
p0 8.113 ± 288.9
6000
4000
2000
0
−2000
−4000
−6000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −185.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

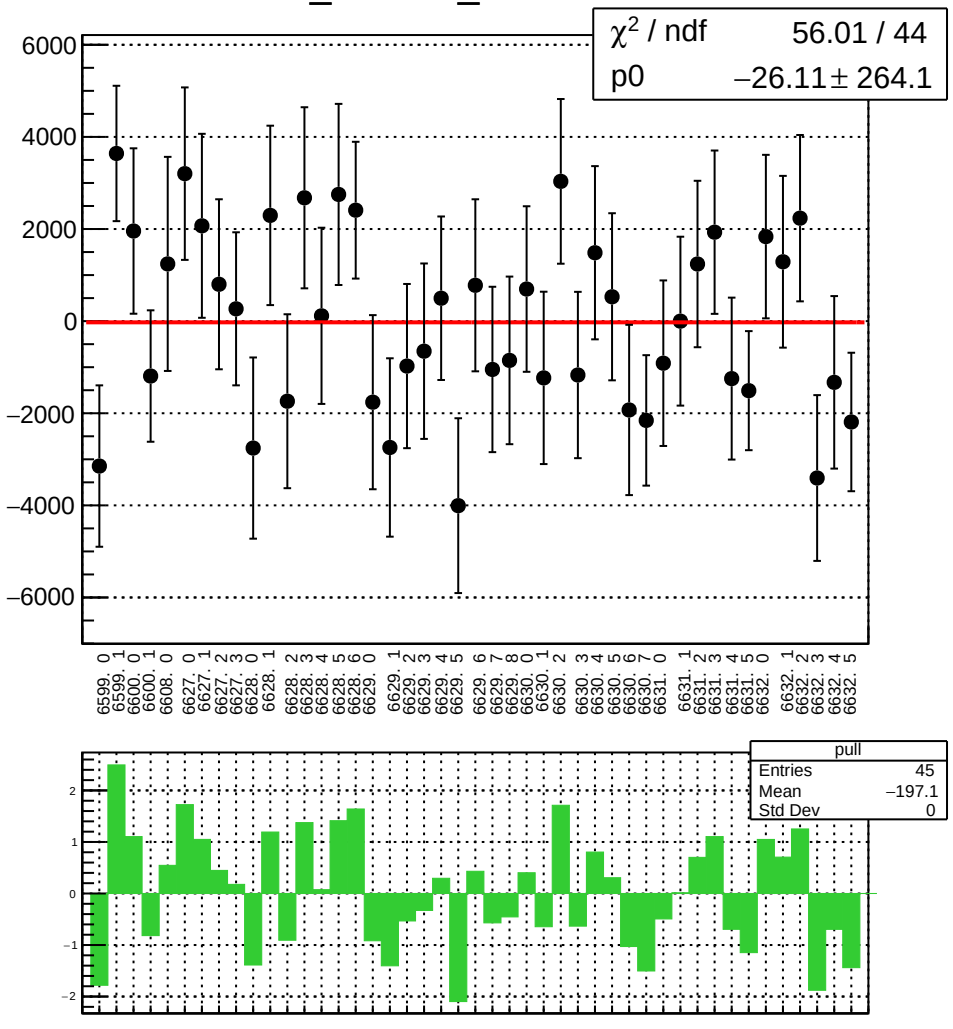

pull1D
Entries 45
Mean 0.01465
Std Dev 1.117
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

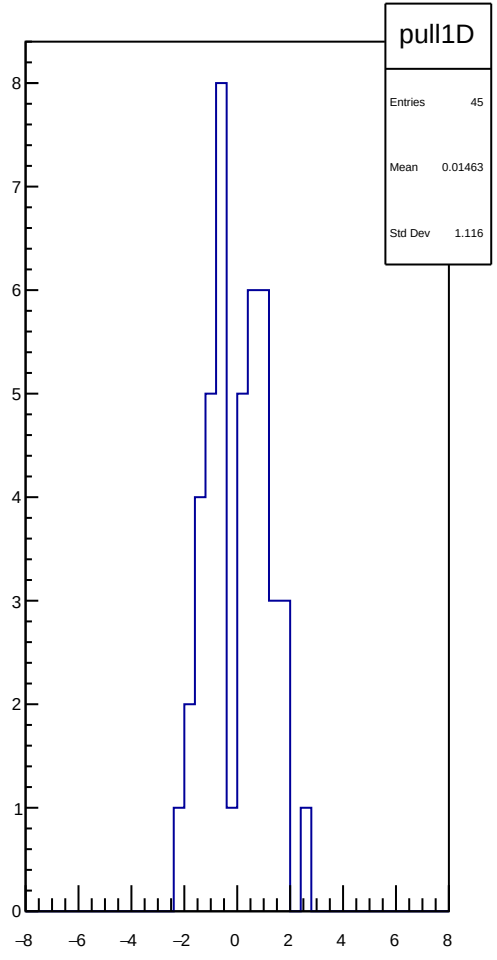

diff_cav4cY_rms vs run
×10^3
χ² / ndf 1020 / 44
p0 1.918e+05 ± 204.3
210
205
200
195
190
185
180
175
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

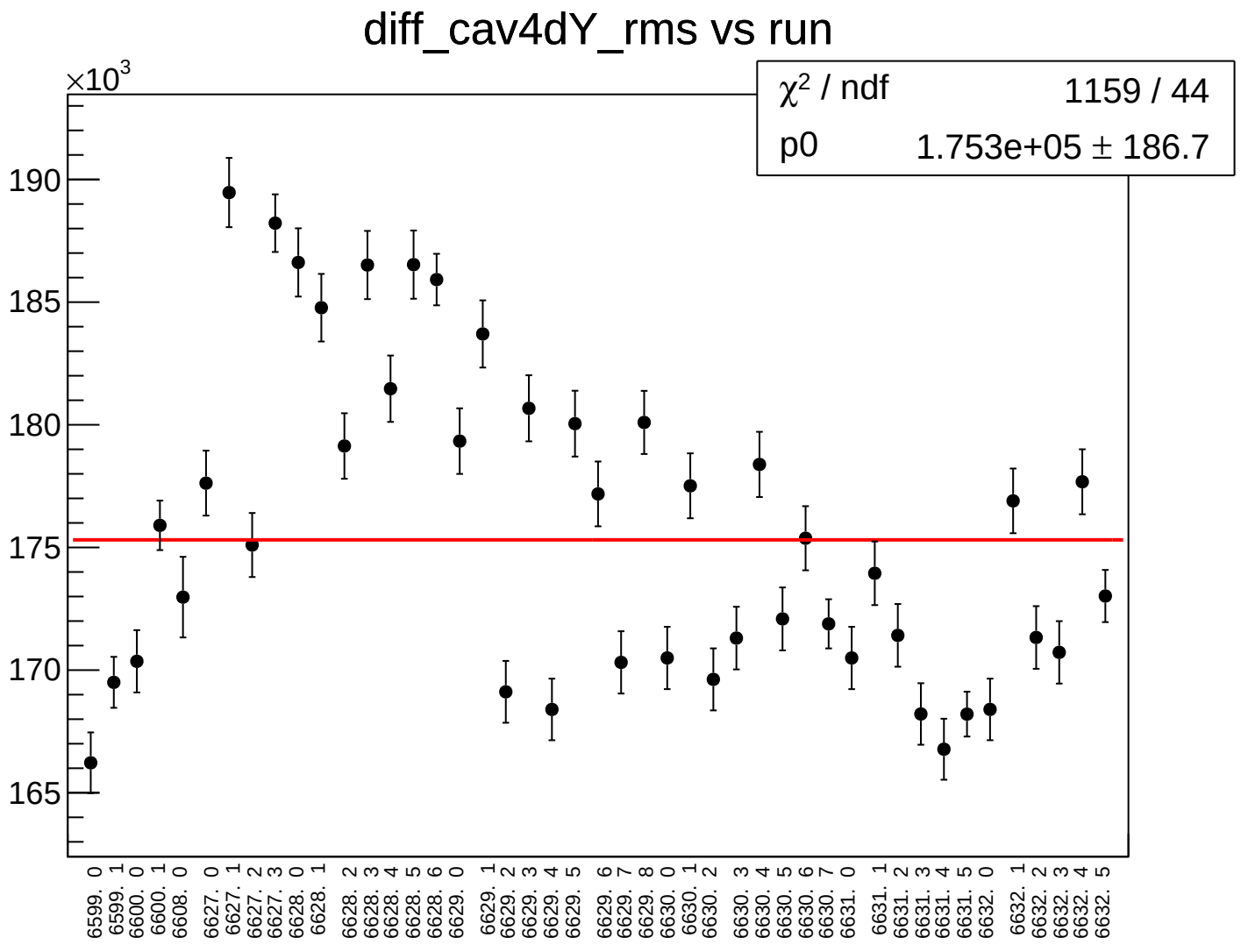

diff_cav4dX_mean vs run
χ² / ndf 38.26 / 44
p0 542.4 ± 266.7
6000
4000
2000
0
−2000
−4000
−6000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 360
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean −0.007886
Std Dev 0.9221
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_cav4dX_rms vs run
×10^3
χ² / ndf 6636 / 44
p0 1.765e+05 ± 188.6
220
210
200
190
180
170
160
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


diff_cav4dY_mean vs run
χ² / ndf 56.01 / 44
p0 −26.11 ± 264.1
6000
4000
2000
0
−2000
−4000
−6000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −197.1
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.01463
Std Dev 1.116
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


diff_cav4dY_rms vs run
×10^3
χ² / ndf 1159 / 44
p0 1.753e+05 ± 186.7
190
185
180
175
170
165
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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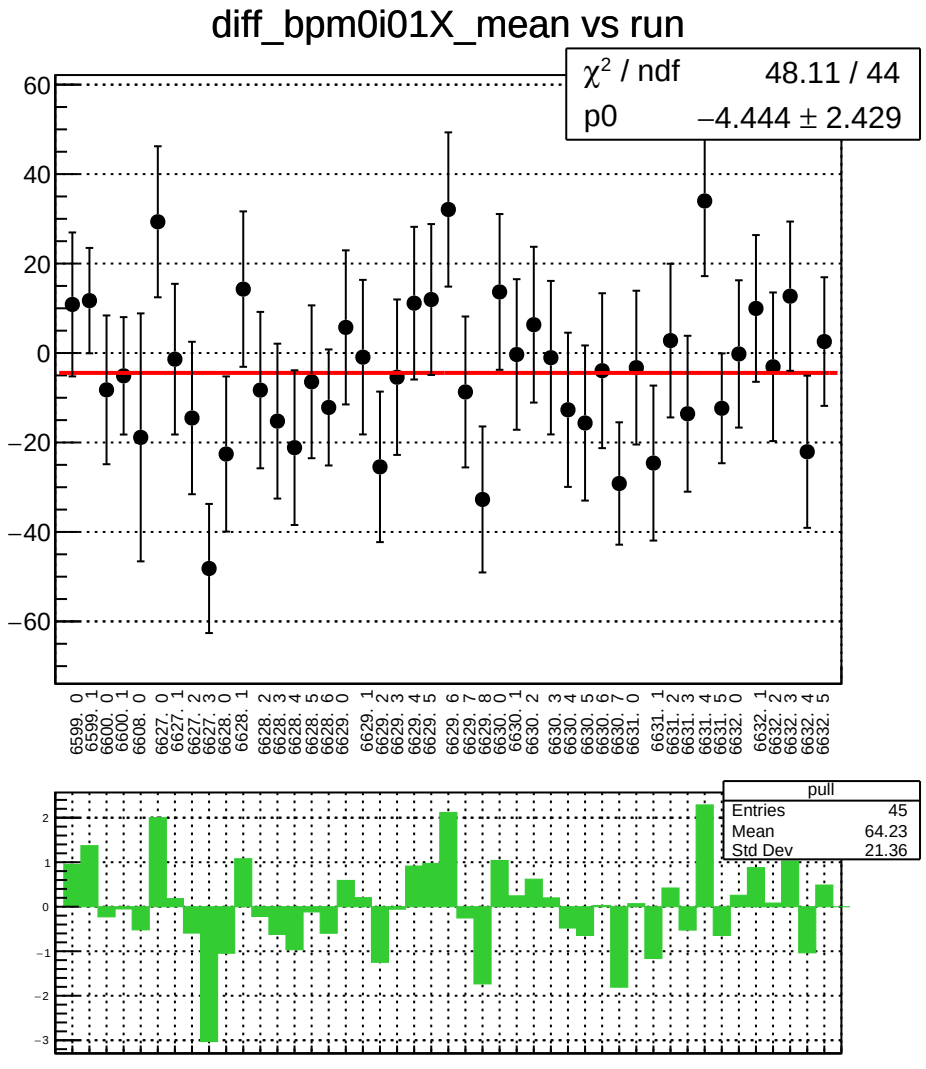
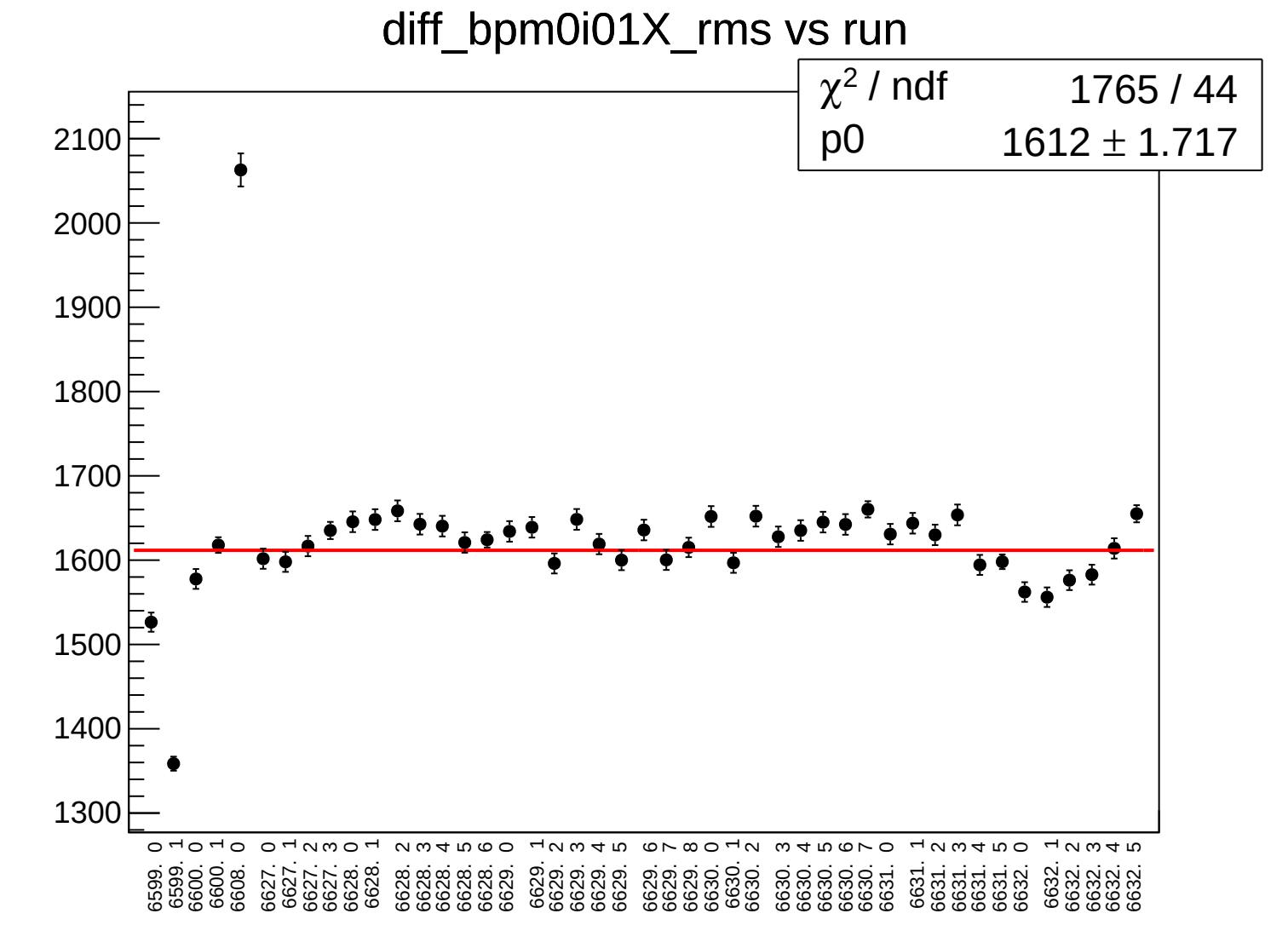
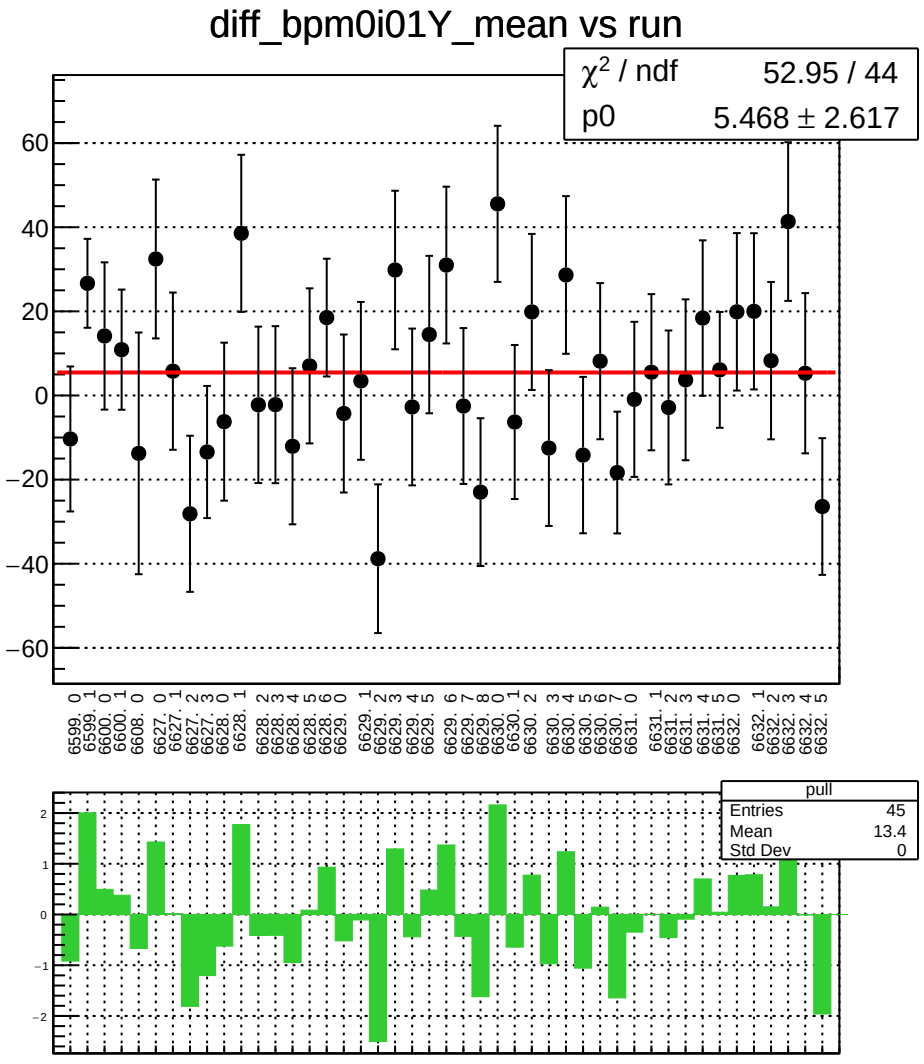
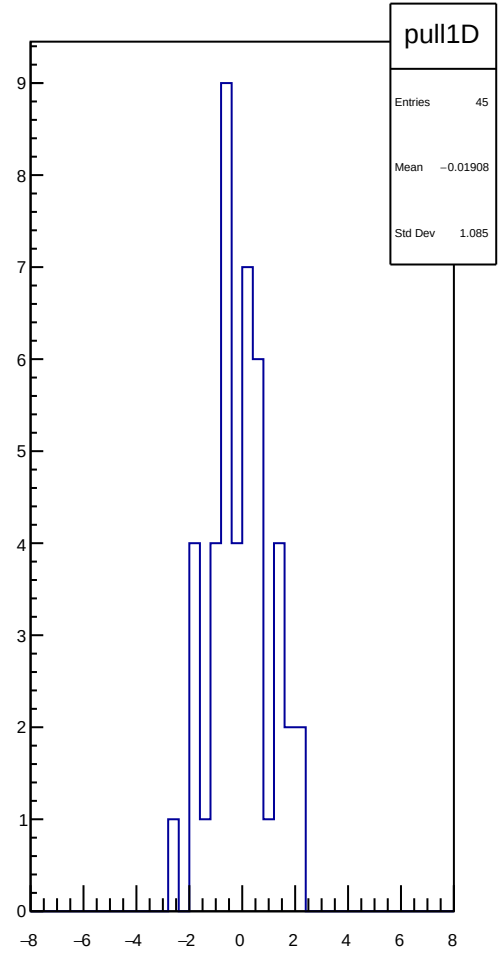
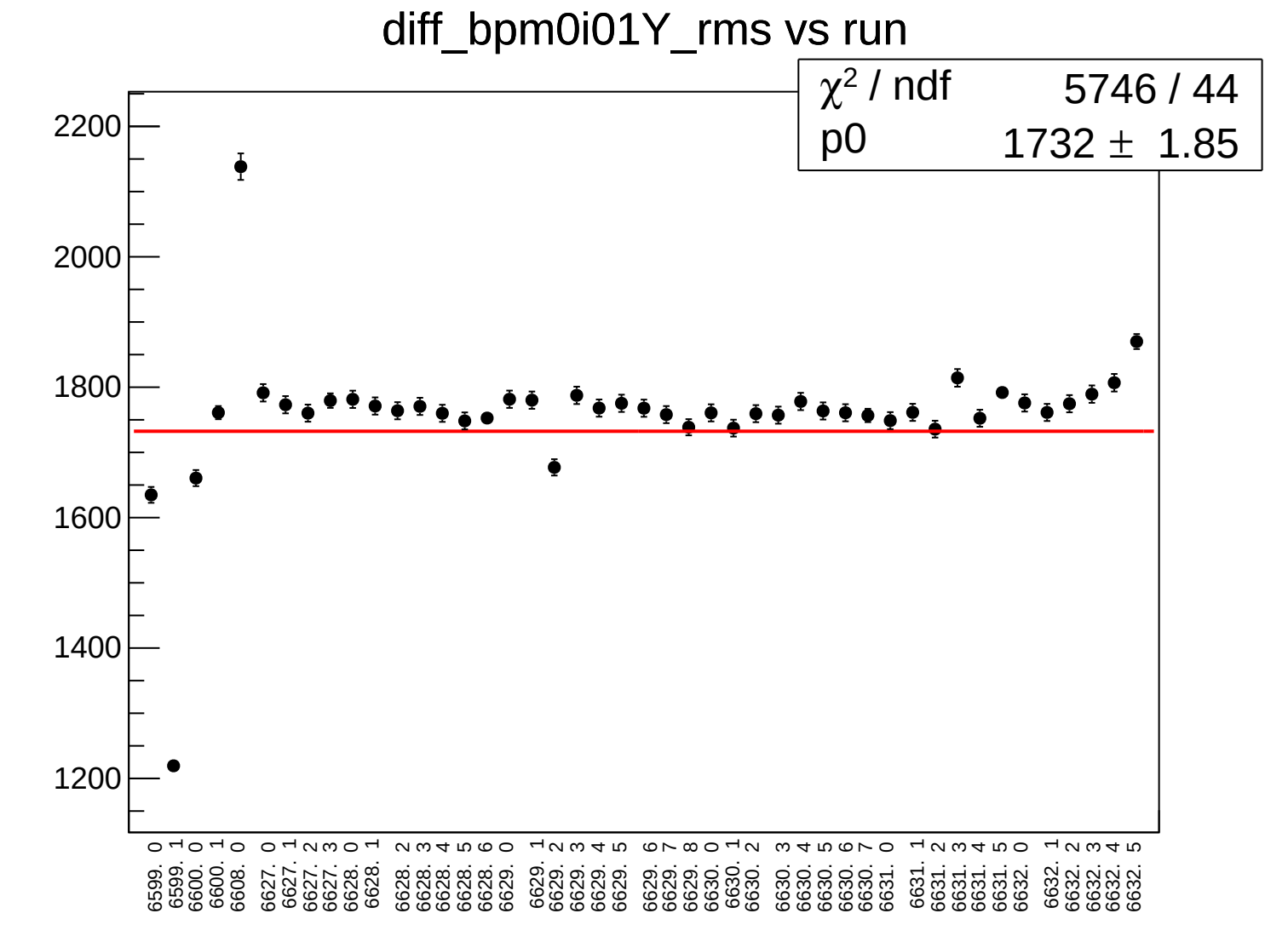
6632. 2
6632. 3
6632. 4
6632. 5


diff_bpm0i01X_mean vs run
χ² / ndf 48.11 / 44
p0 −4.444 ± 2.429
60
40
20
0
−20
−40
−60
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 64.23
Std Dev 21.36
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.01006
Std Dev 1.034
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm0i01X_rms vs run
χ² / ndf 1765 / 44
p0 1612 ± 1.717
2100
2000
1900
1800
1700
1600
1500
1400
1300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


diff_bpm0i01Y_mean vs run
χ² / ndf 52.95 / 44
p0 5.468 ± 2.617
pull
Entries 45
Mean 13.4
Std Dev 0


pull1D
Entries 45
Mean −0.01908
Std Dev 1.085


diff_bpm0i01Y_rms vs run
χ² / ndf 5746 / 44
p0 1732 ± 1.85
2200
2000
1800
1600
1400
1200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
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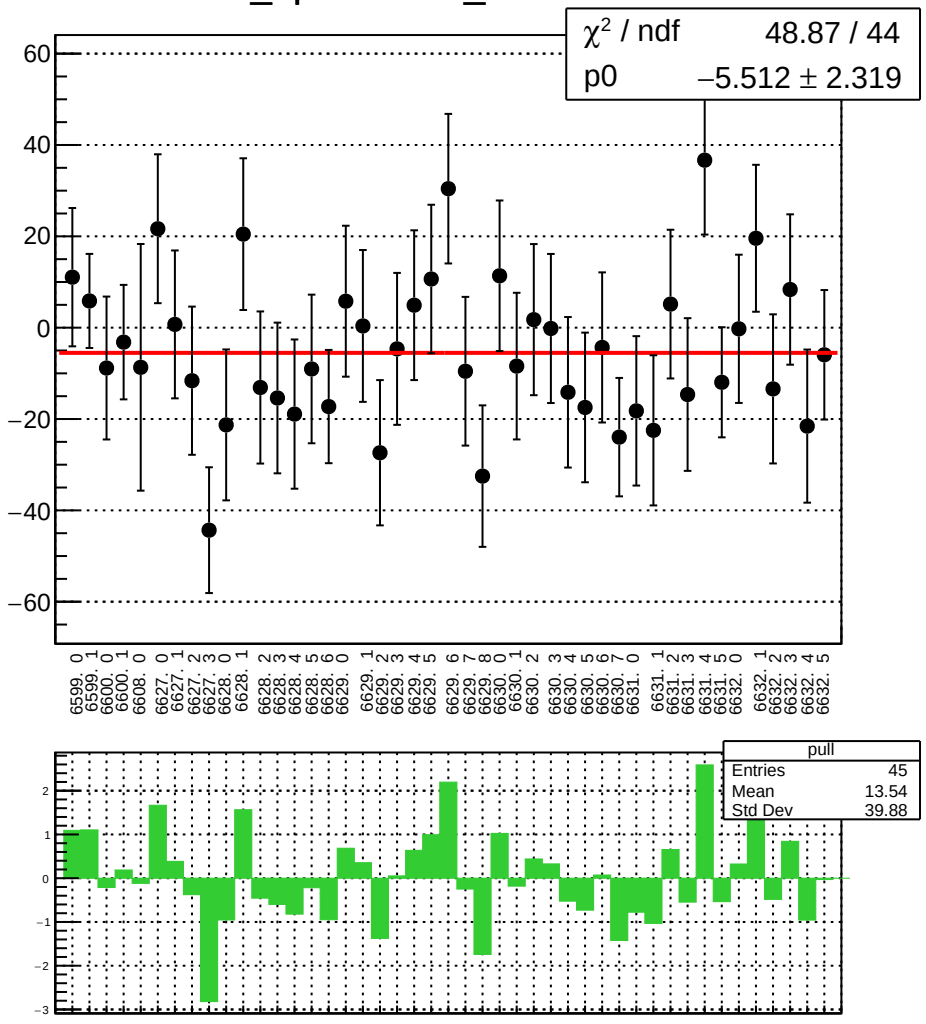
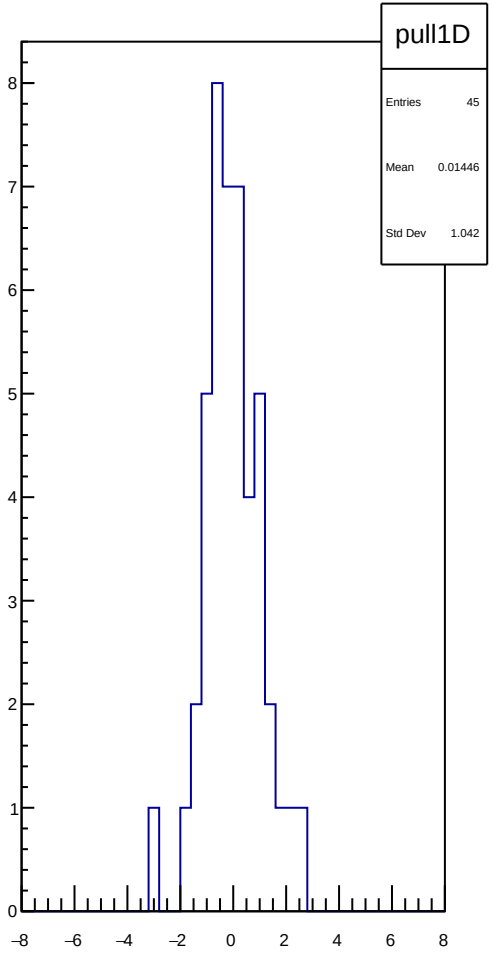
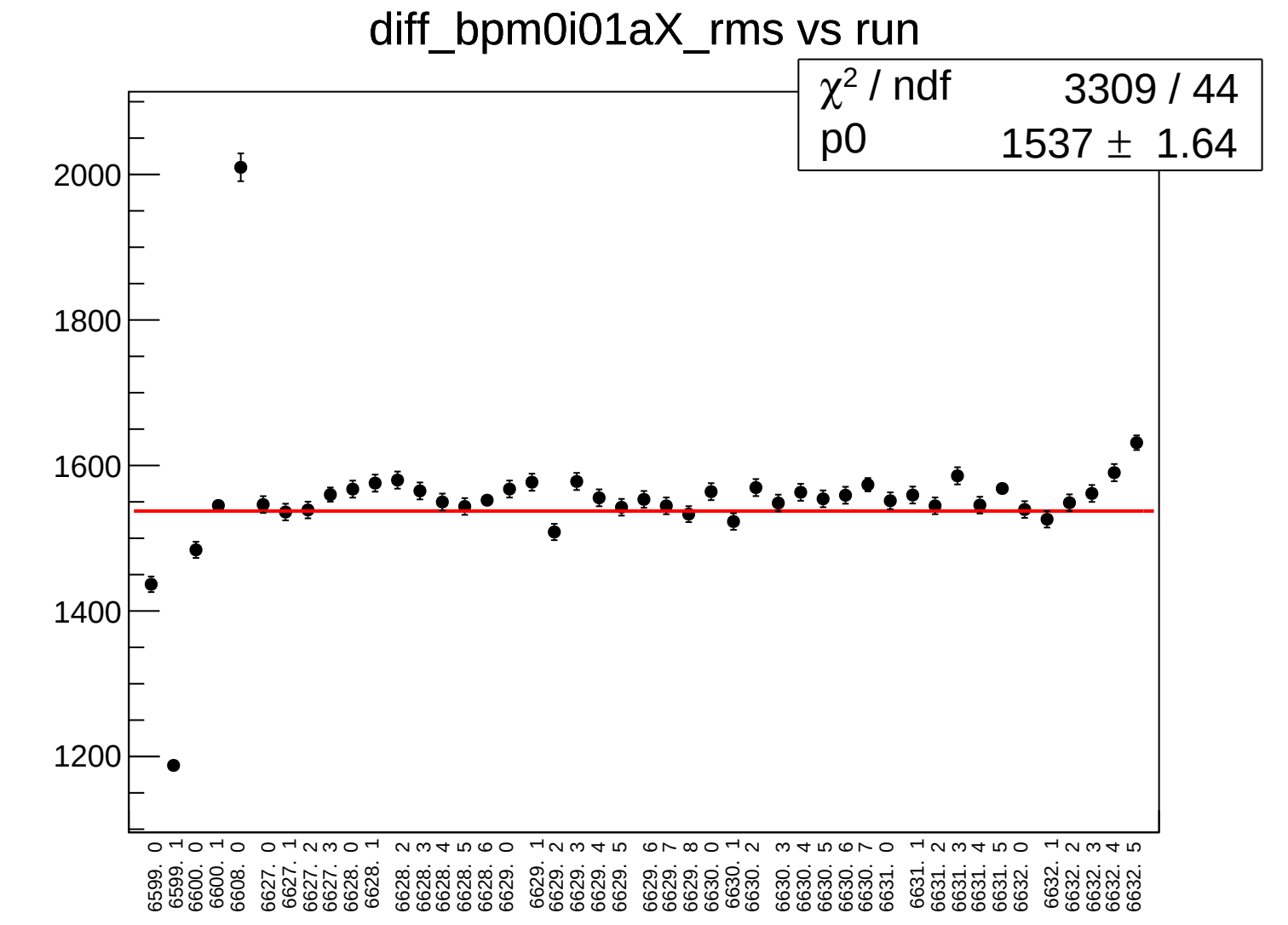
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


diff_bpm0i01aX_mean vs run
χ² / ndf 48.87 / 44
p0 −5.512 ± 2.319
pull
Entries 45
Mean 13.54
Std Dev 39.88


pull1D
Entries 45
Mean 0.01446
Std Dev 1.042


diff_bpm0i01aX_rms vs run
χ² / ndf 3309 / 44
p0 1537 ± 1.64
2000
1800
1600
1400
1200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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6628. 6
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6629. 6
6629. 7
6629. 8
6630. 0
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6631. 4
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6632. 0
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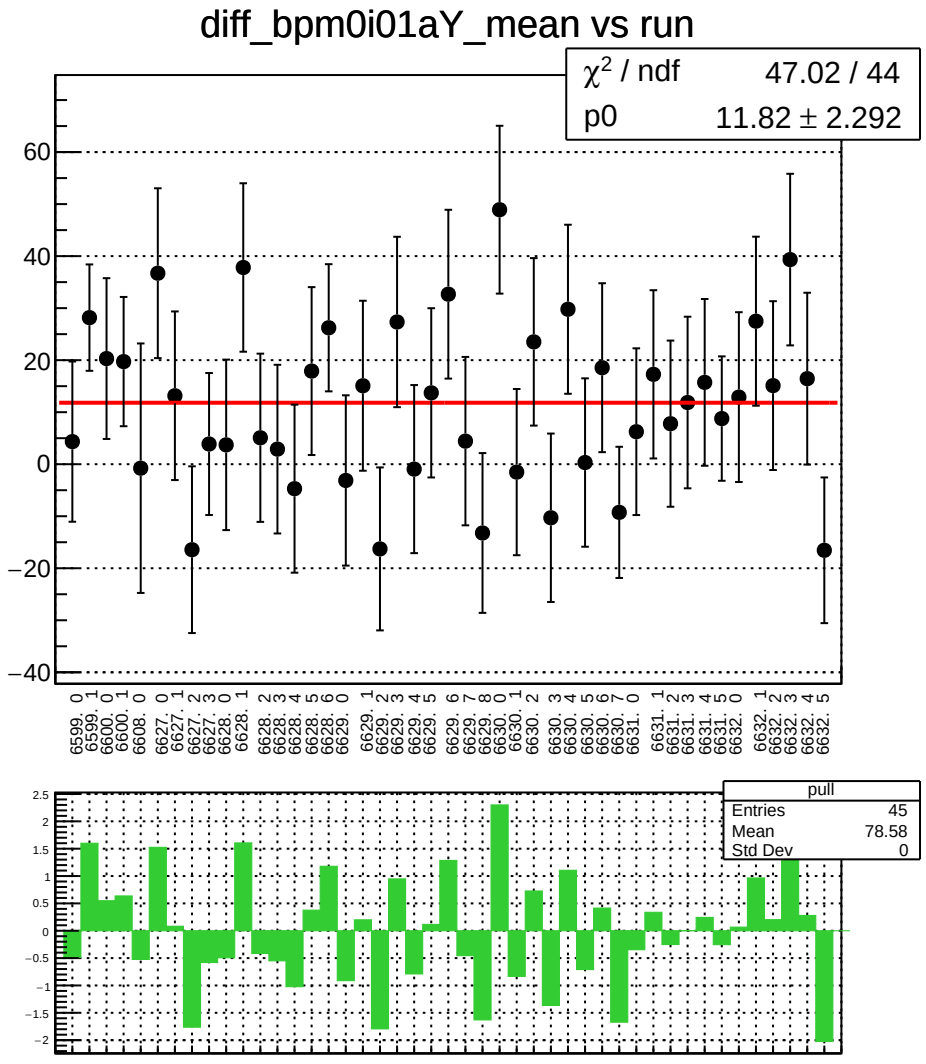
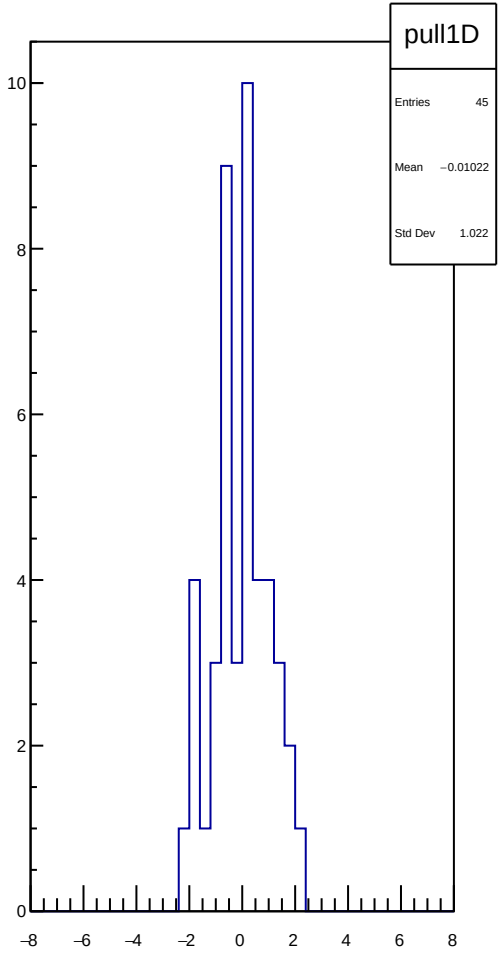
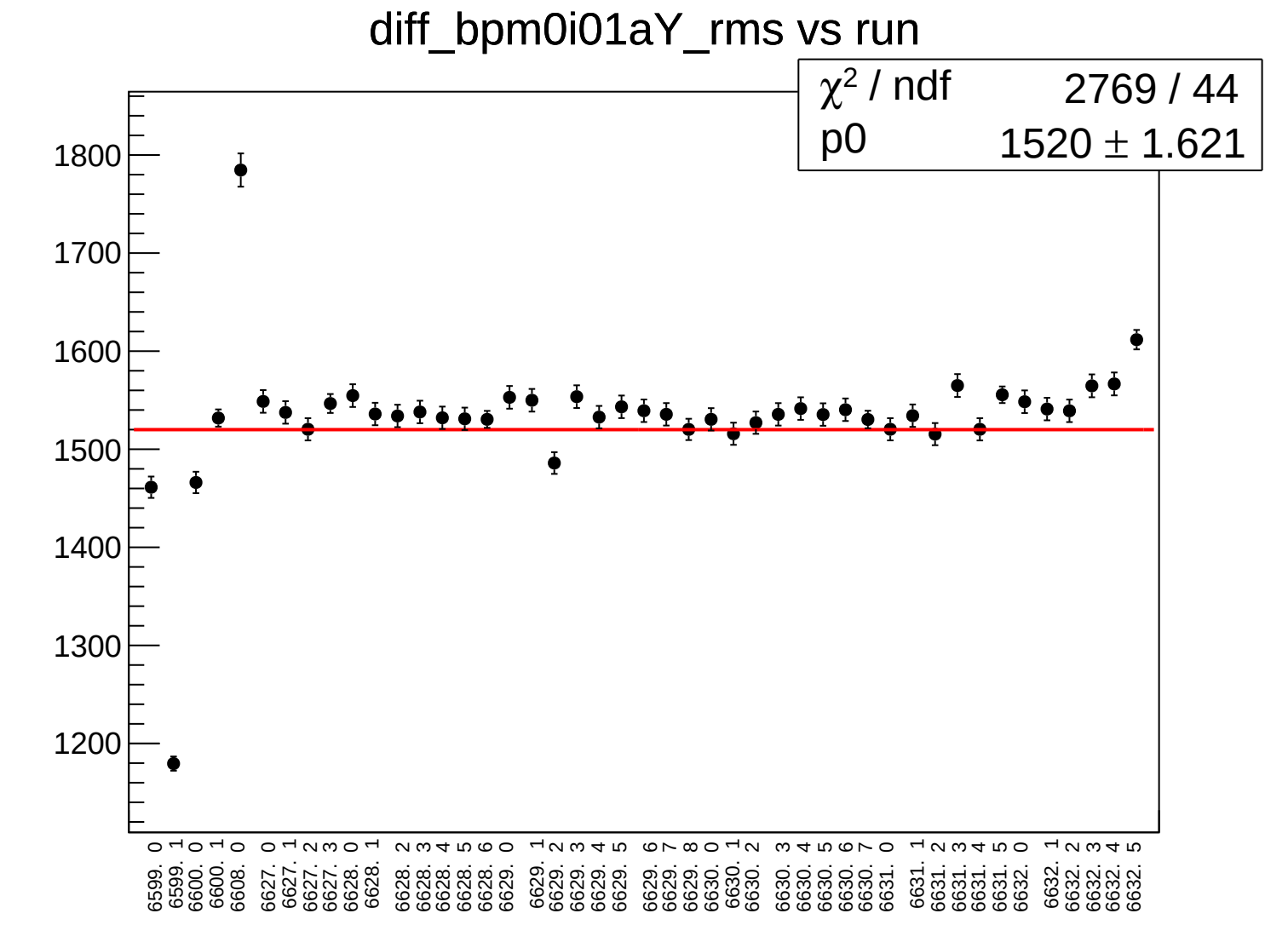
6632. 4
6632. 5


diff_bpm0i01aY_mean vs run
χ² / ndf 47.02 / 44
p0 11.82 ± 2.292
pull
Entries 45
Mean 78.58
Std Dev 0


pull1D
Entries 45
Mean −0.01022
Std Dev 1.022


diff_bpm0i01aY_rms vs run
χ² / ndf 2769 / 44
p0 1520 ± 1.621
1800
1700
1600
1500
1400
1300
1200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
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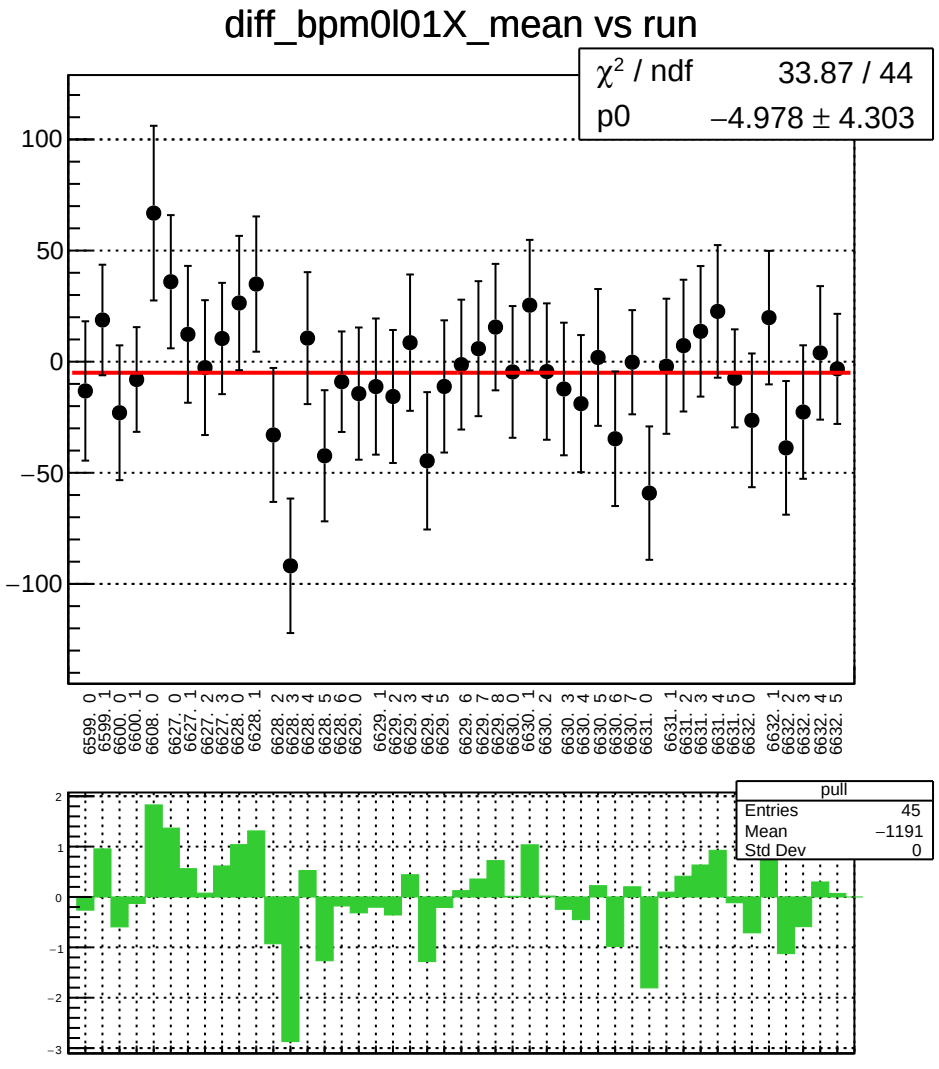
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


diff_bpm0l01X_mean vs run
χ² / ndf 33.87 / 44
p0 −4.978 ± 4.303
100
50
0
−50
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 2
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6628. 2
6628. 3
6628. 4
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6628. 6
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6629. 1
6629. 2
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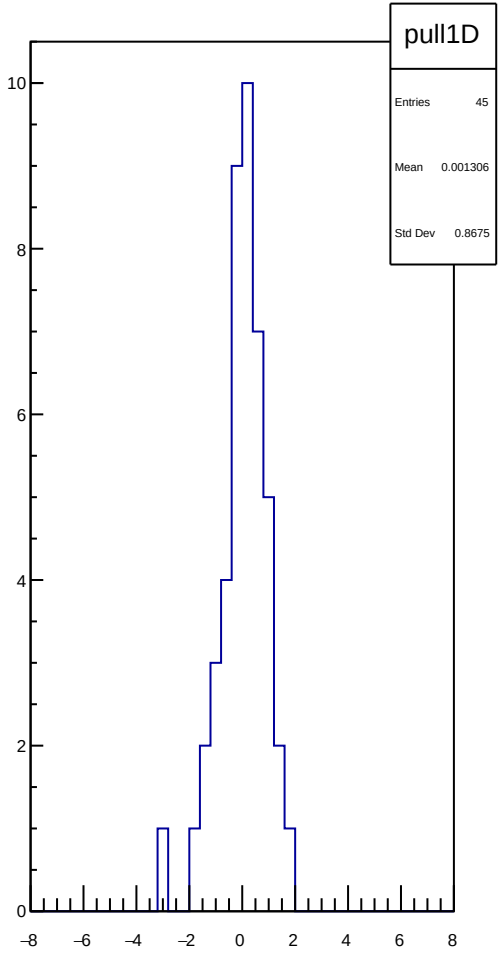
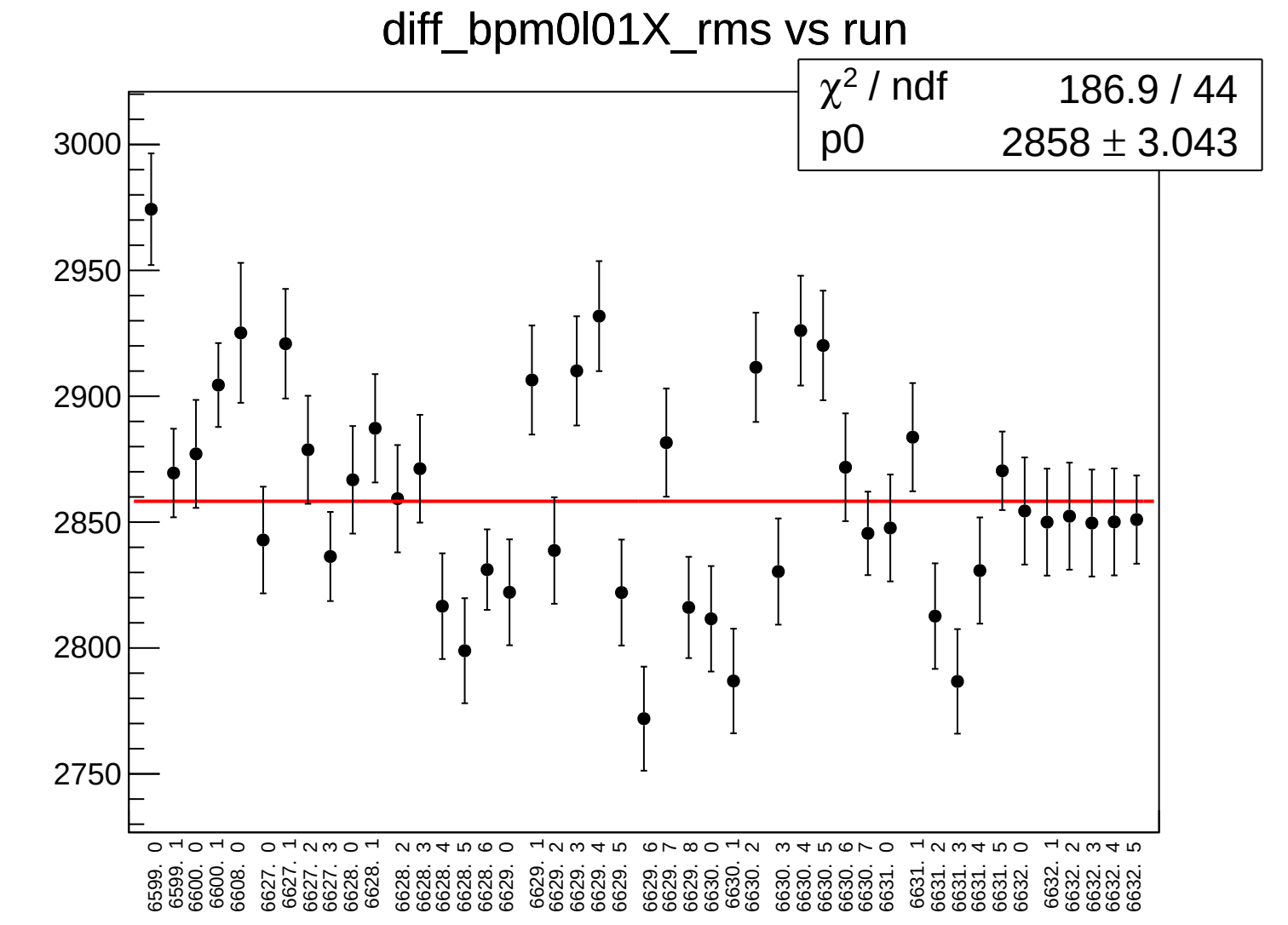
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −1191
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.001306
Std Dev 0.8675
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm0l01X_rms vs run
χ² / ndf 186.9 / 44
p0 2858 ± 3.043
3000
2950
2900
2850
2800
2750
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
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6632. 2
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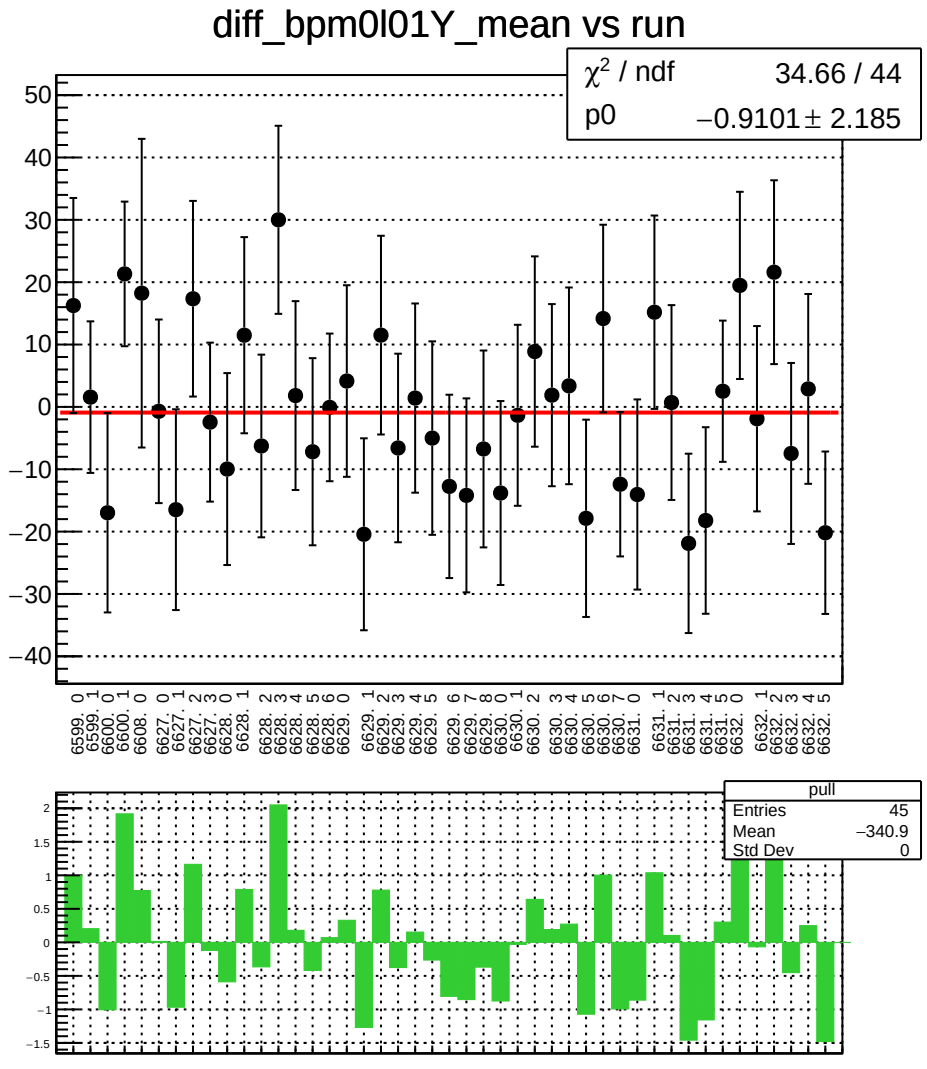
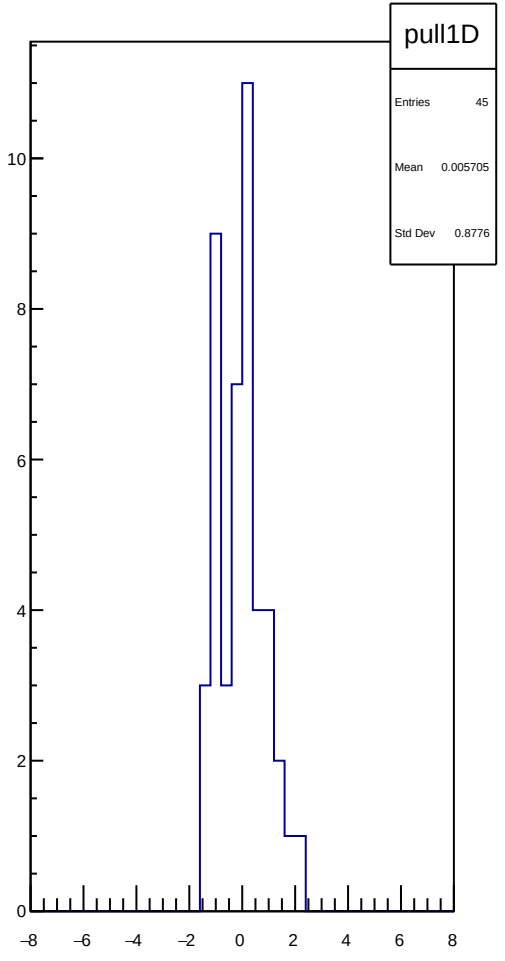
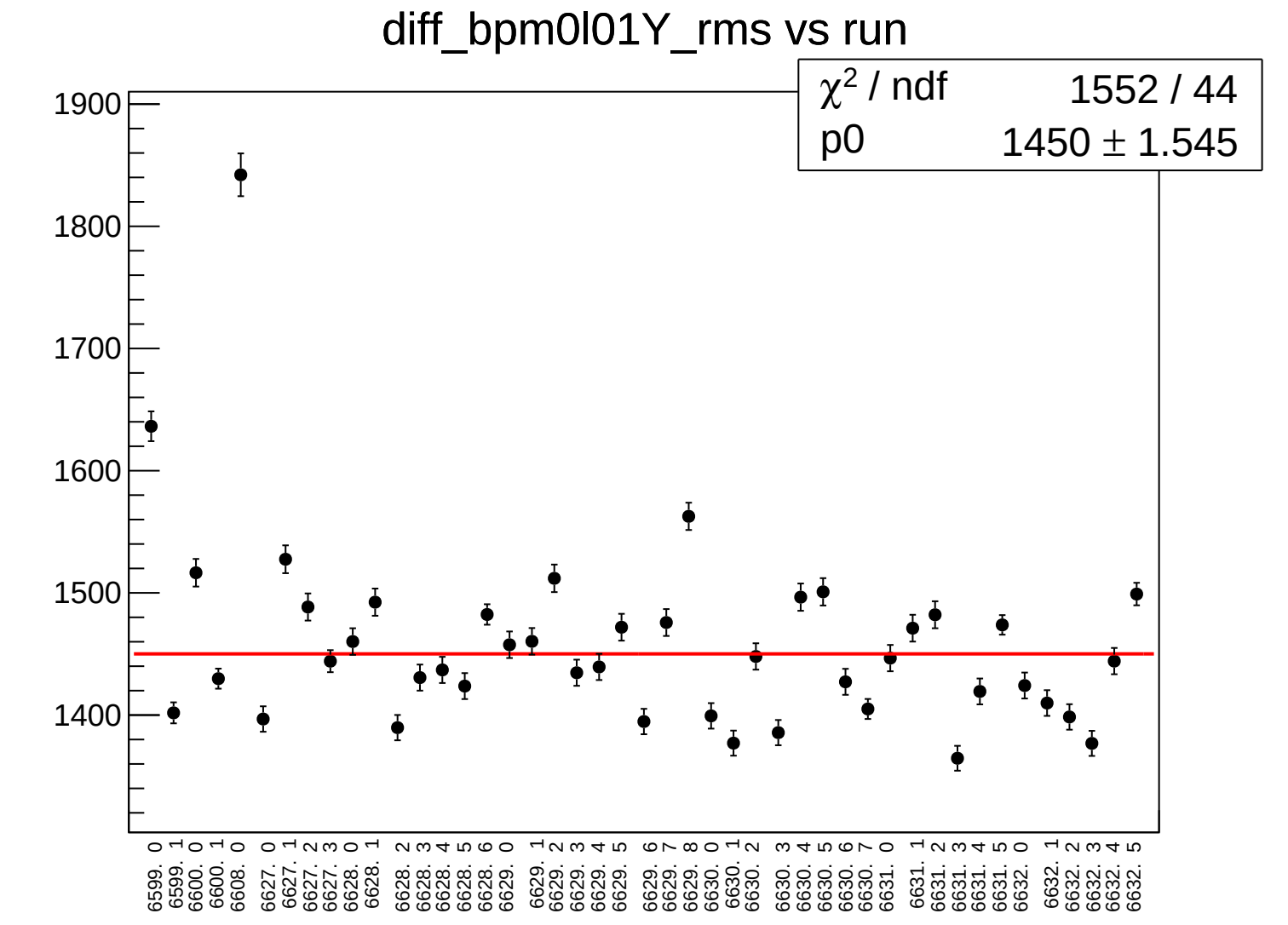
6632. 4
6632. 5


diff_bpm0l01Y_mean vs run
χ² / ndf 34.66 / 44
p0 −0.9101 ± 2.185
pull
Entries 45
Mean −340.9
Std Dev 0


pull1D
Entries 45
Mean 0.005705
Std Dev 0.8776


diff_bpm0l01Y_rms vs run
χ² / ndf 1552 / 44
p0 1450 ± 1.545
1900
1800
1700
1600
1500
1400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
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6629. 1
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6629. 4
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6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
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6632. 0
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6632. 2
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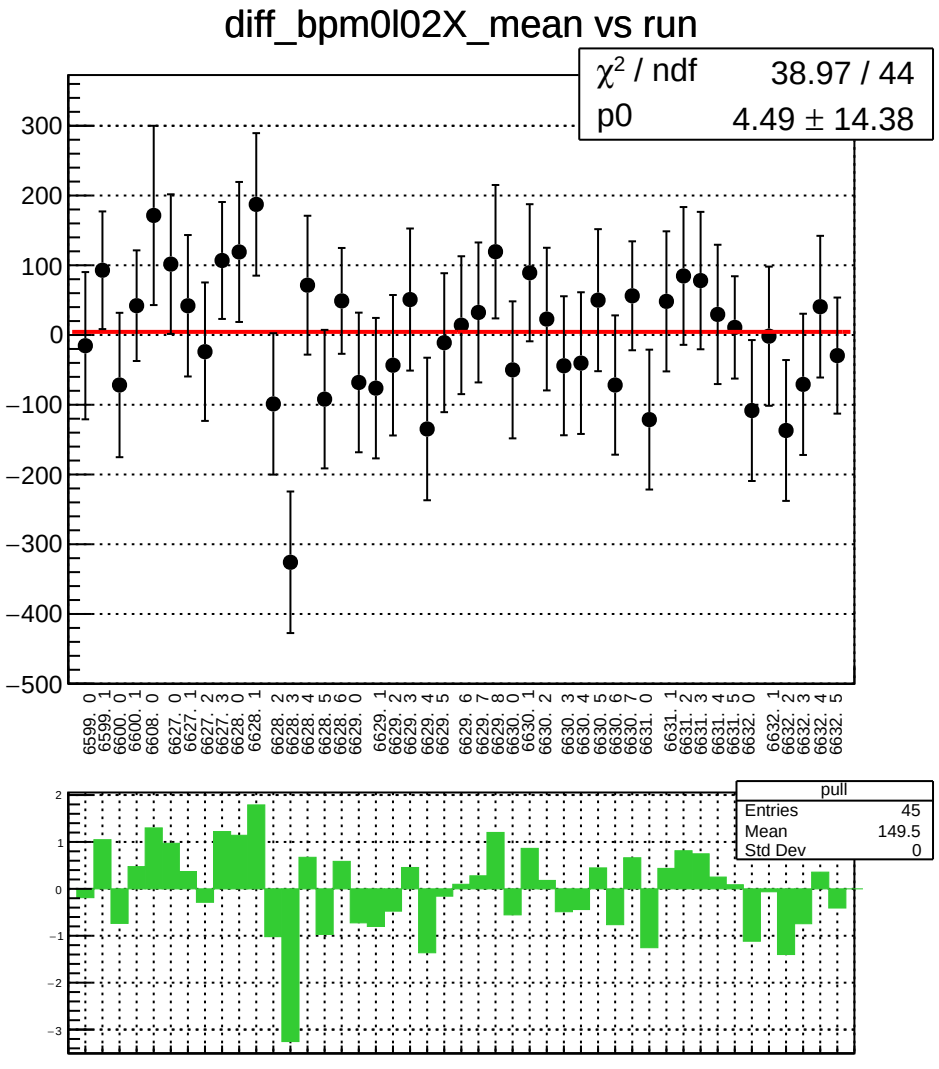
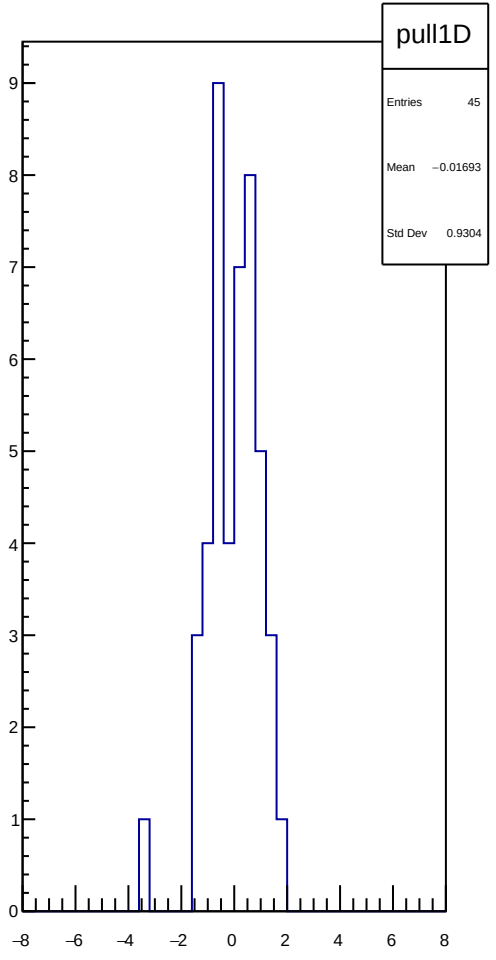
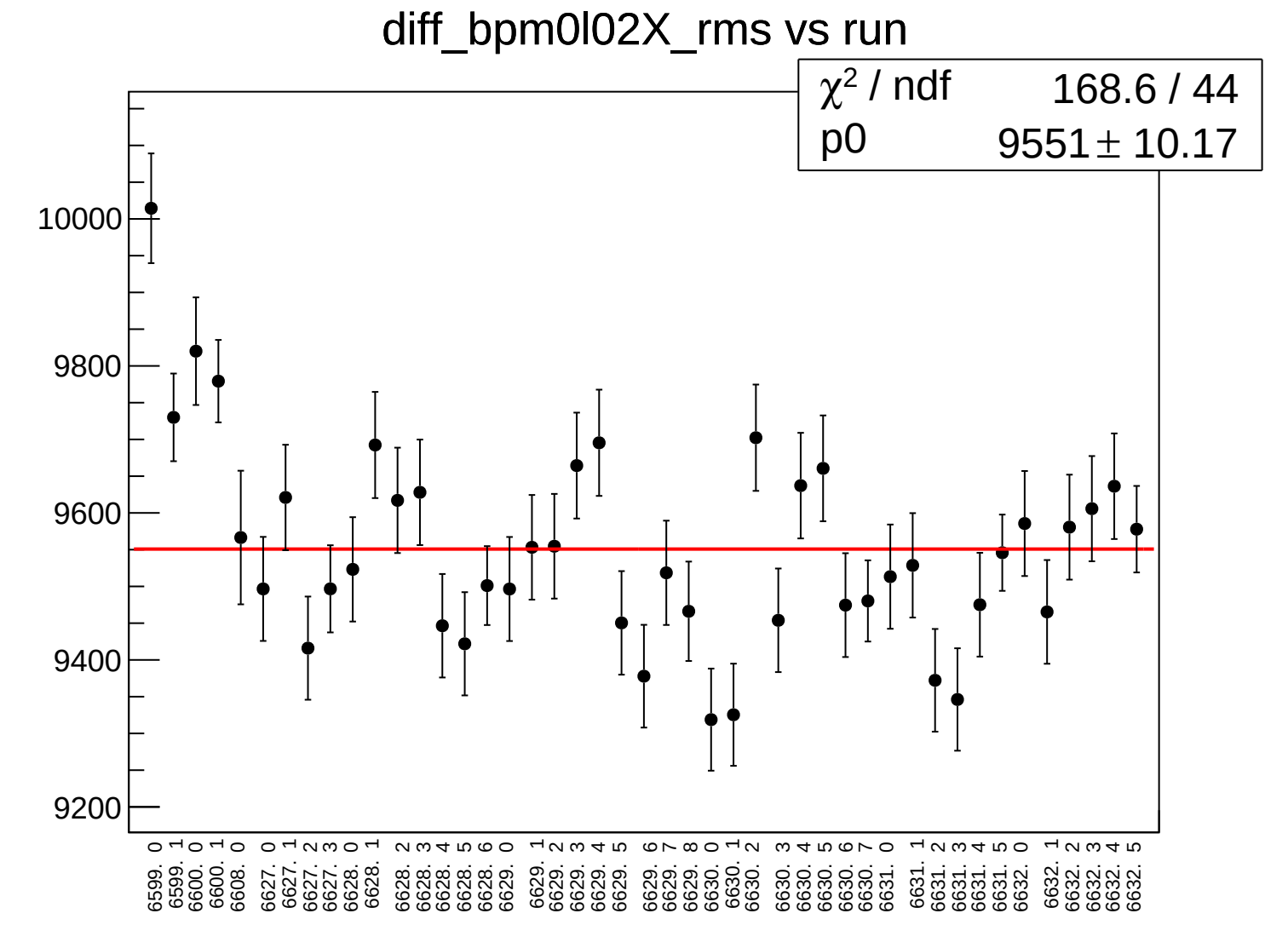
6632. 4
6632. 5


diff_bpm0l02X_mean vs run
χ² / ndf 38.97 / 44
p0 4.49 ± 14.38
pull
Entries 45
Mean 149.5
Std Dev 0


pull1D
Entries 45
Mean −0.01693
Std Dev 0.9304


diff_bpm0l02X_rms vs run
χ² / ndf 168.6 / 44
p0 9551 ± 10.17
10000
9800
9600
9400
9200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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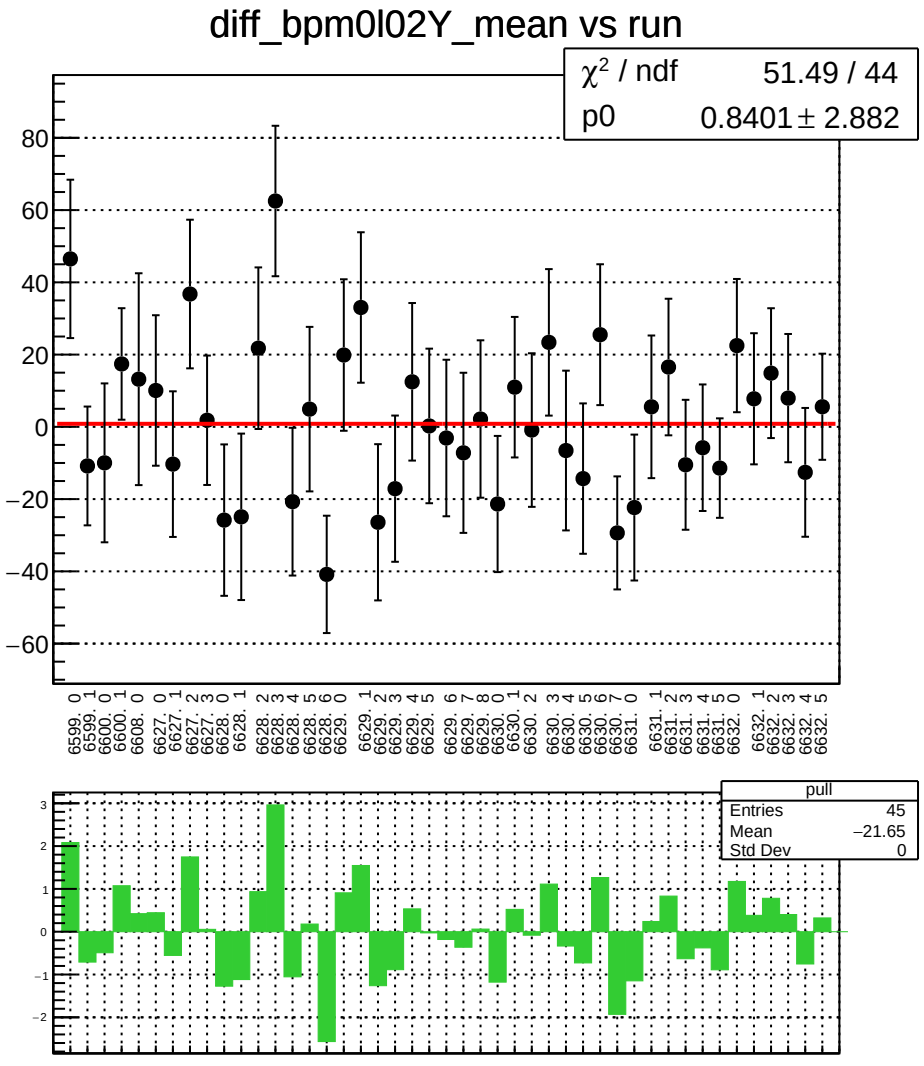
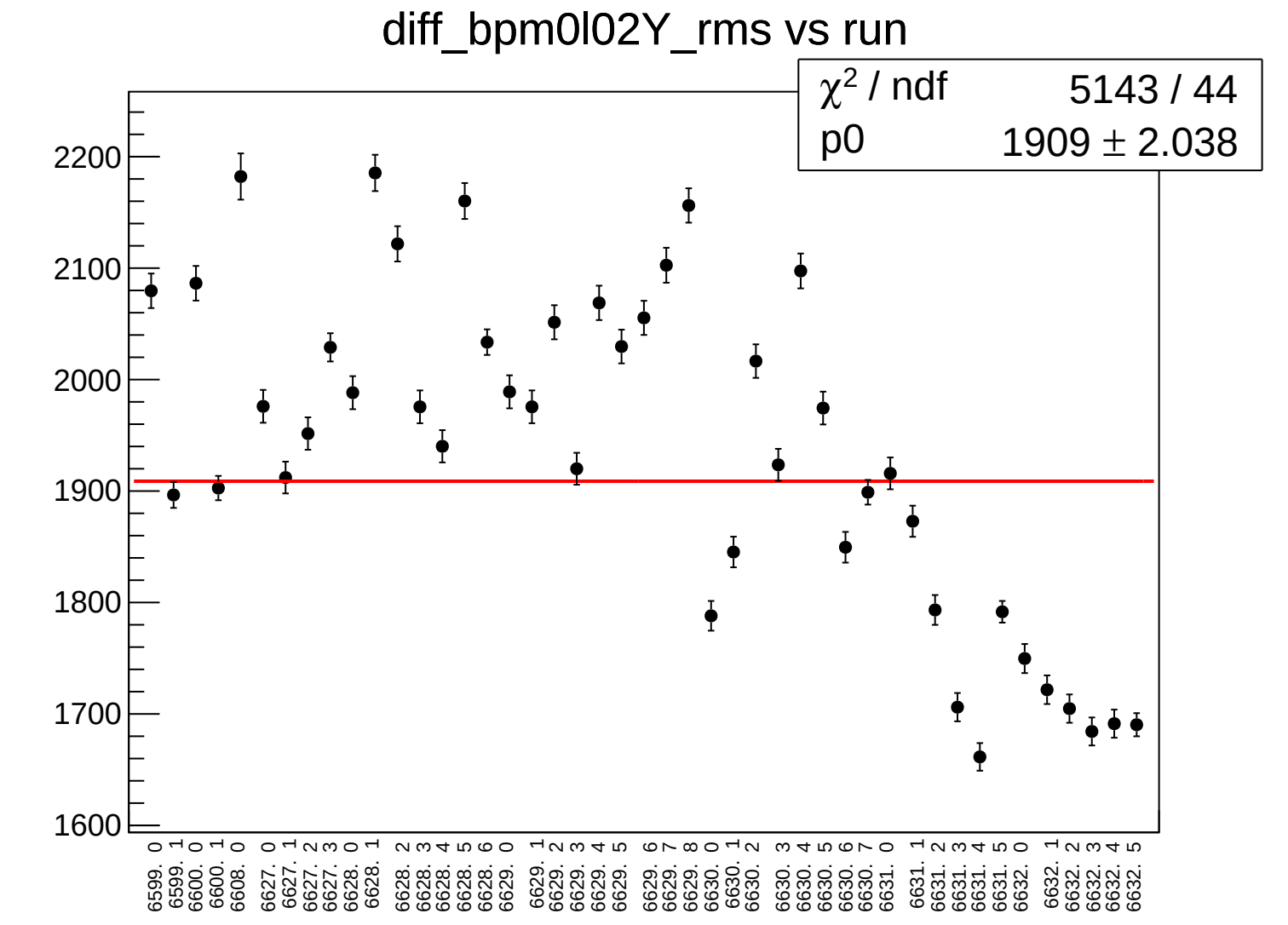
6632. 4
6632. 5


diff_bpm0l02Y_mean vs run
χ² / ndf 51.49 / 44
p0 0.8401 ± 2.882
pull
Entries 45
Mean −21.65
Std Dev 0
pull1D
Entries 45
Mean 0.03194
Std Dev 1.069


diff_bpm0l02Y_rms vs run
χ² / ndf 5143 / 44
p0 1909 ± 2.038
2200
2100
2000
1900
1800
1700
1600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
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6627. 3
6628. 0
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6628. 2
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6628. 4
6628. 5
6628. 6
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6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
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6632. 2
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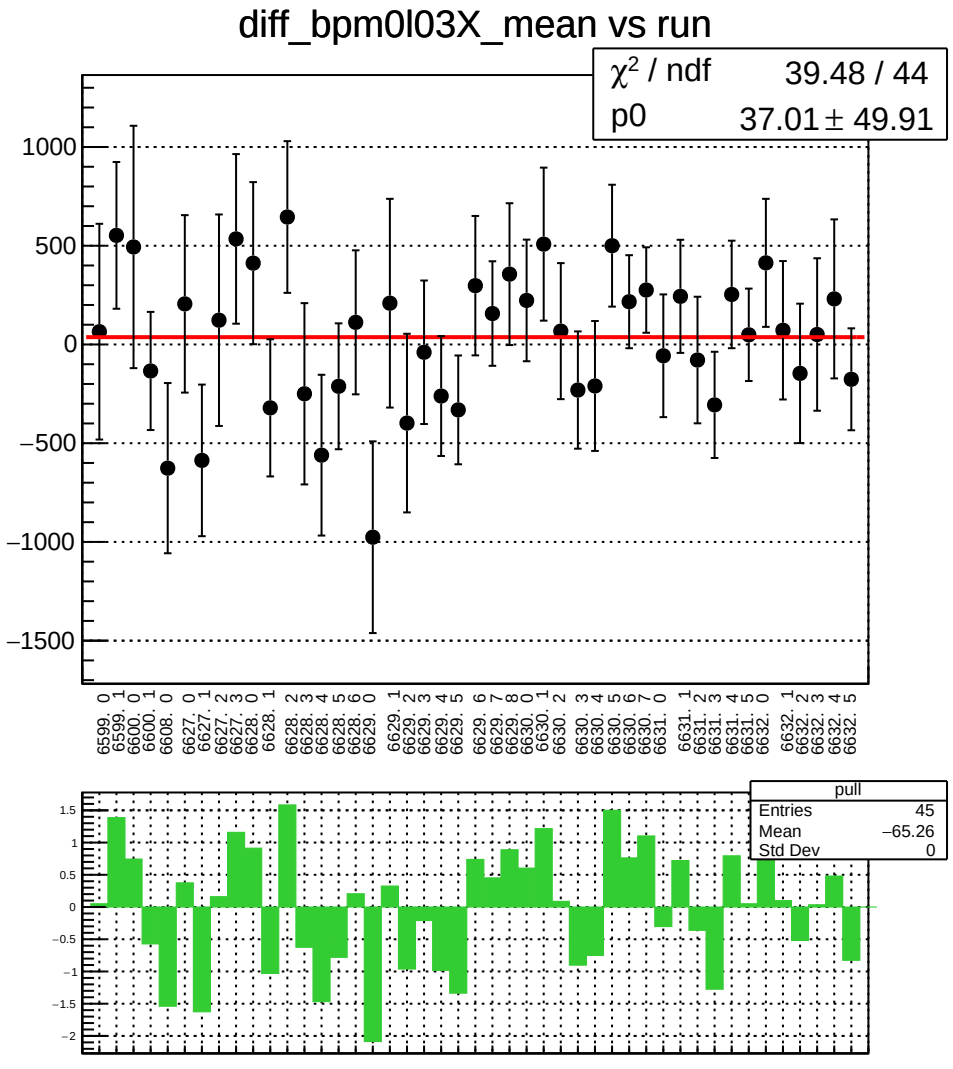
6632. 5


diff_bpm0l03X_mean vs run
χ² / ndf 39.48 / 44
p0 37.01 ± 49.91
1000
500
0
−500
−1000
−1500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6628. 5
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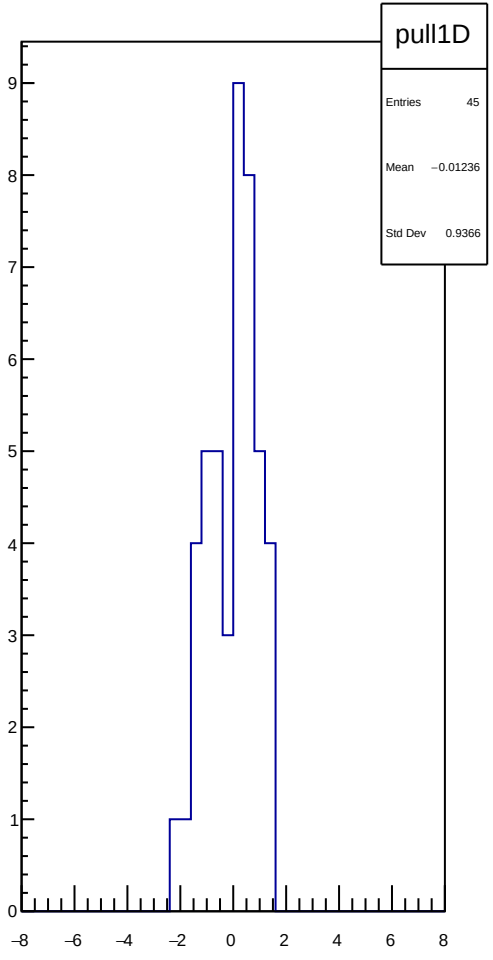
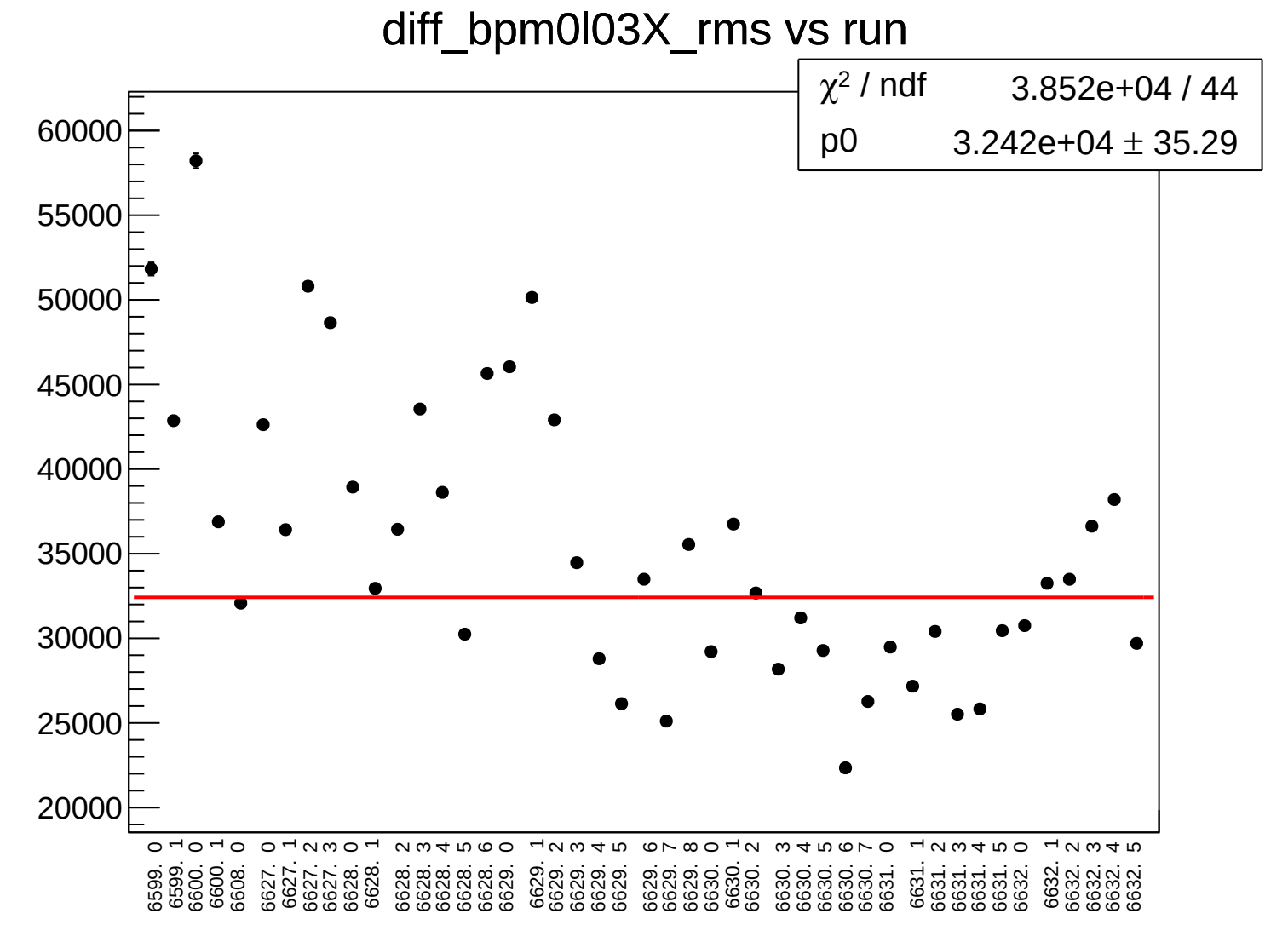
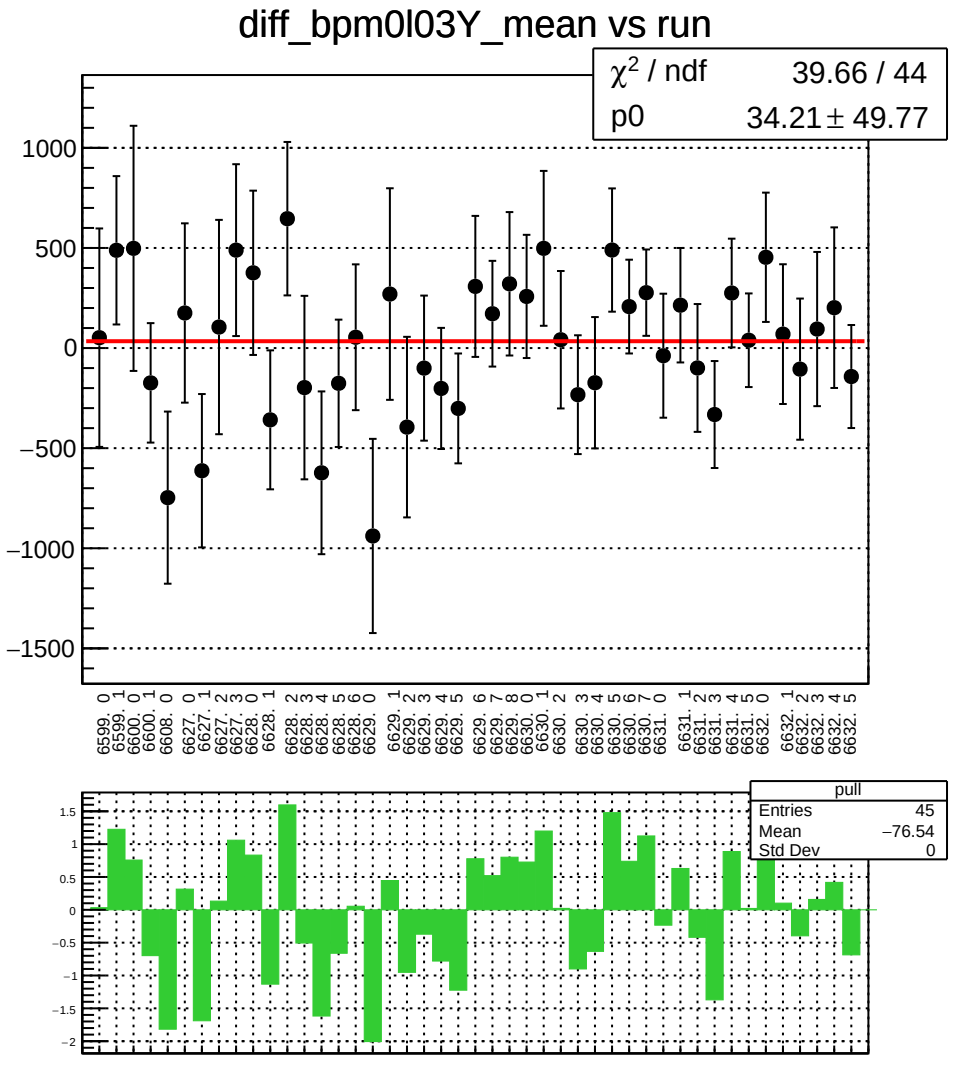
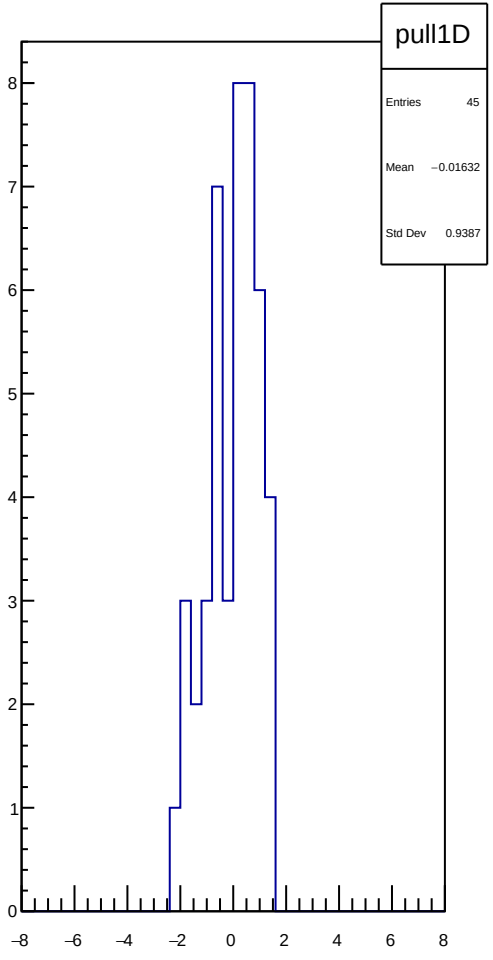
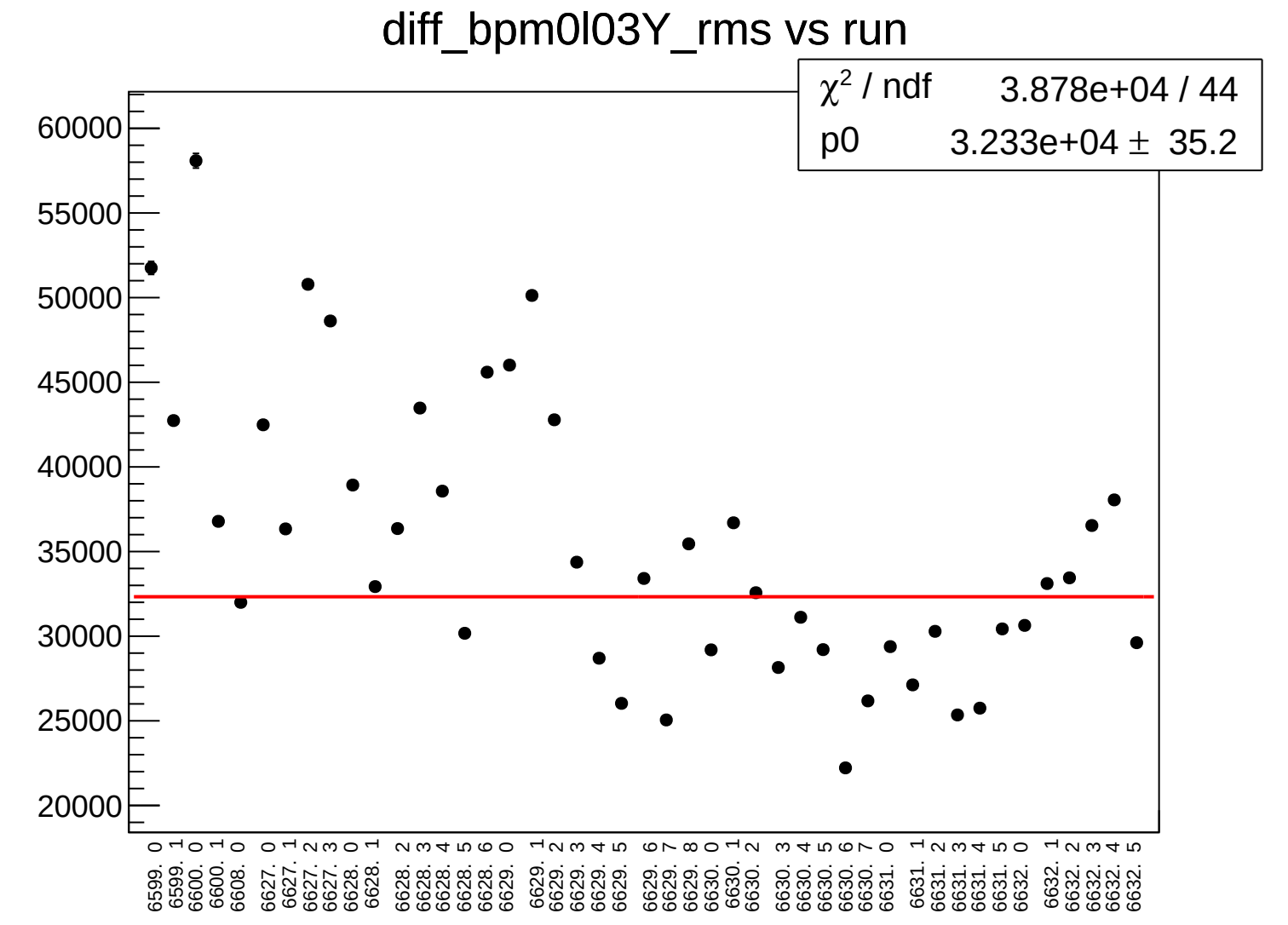
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −65.26
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

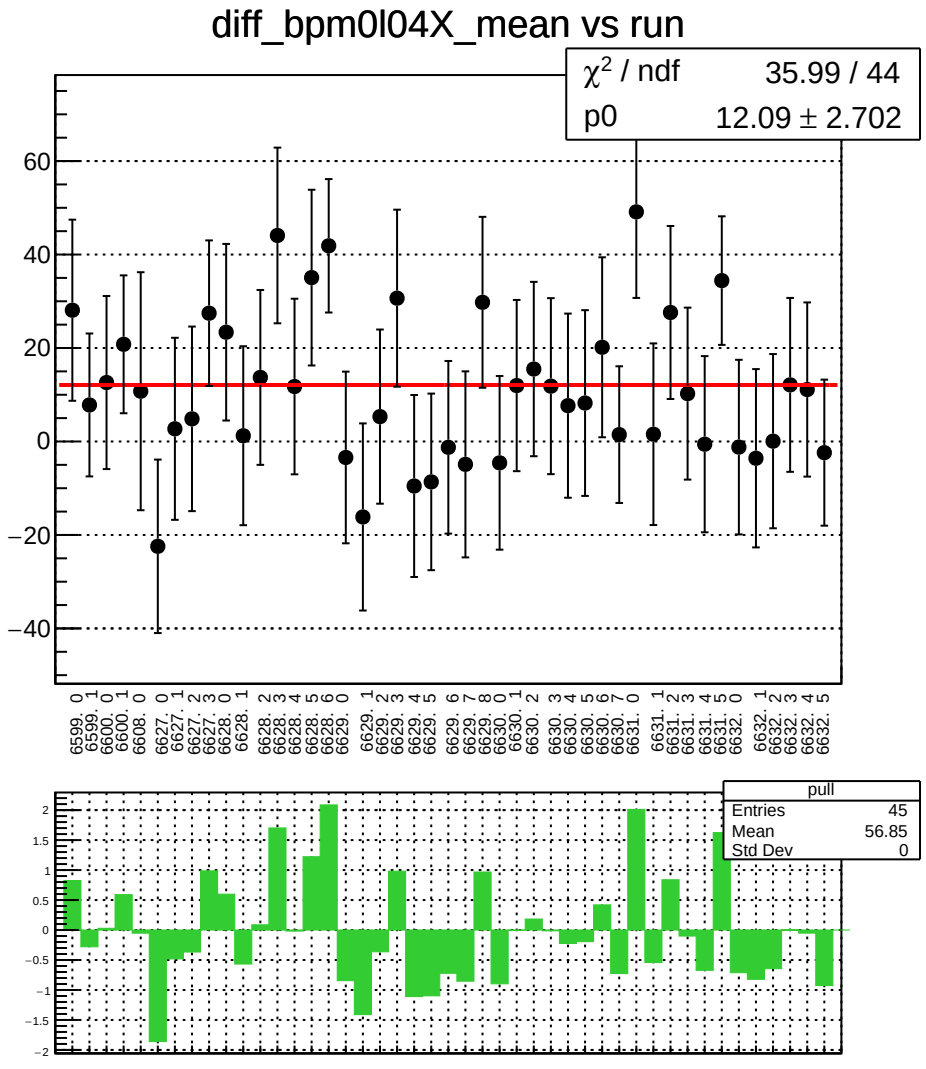

pull1D
Entries 45
Mean −0.01236
Std Dev 0.9366
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

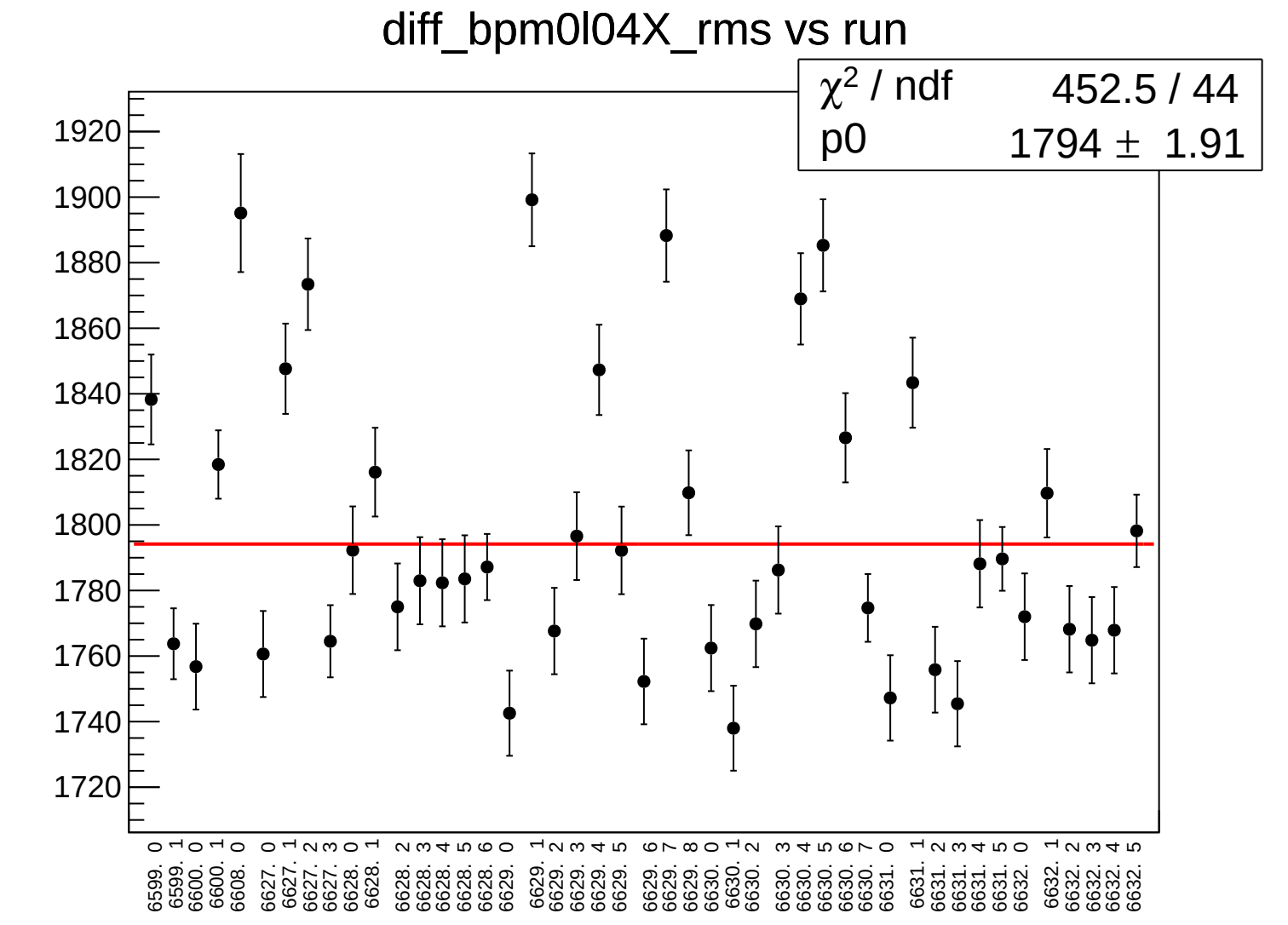

diff_bpm0l03X_rms vs run
χ² / ndf 3.852e+04 / 44
p0 3.242e+04 ± 35.29
60000
55000
50000
45000
40000
35000
30000
25000
20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

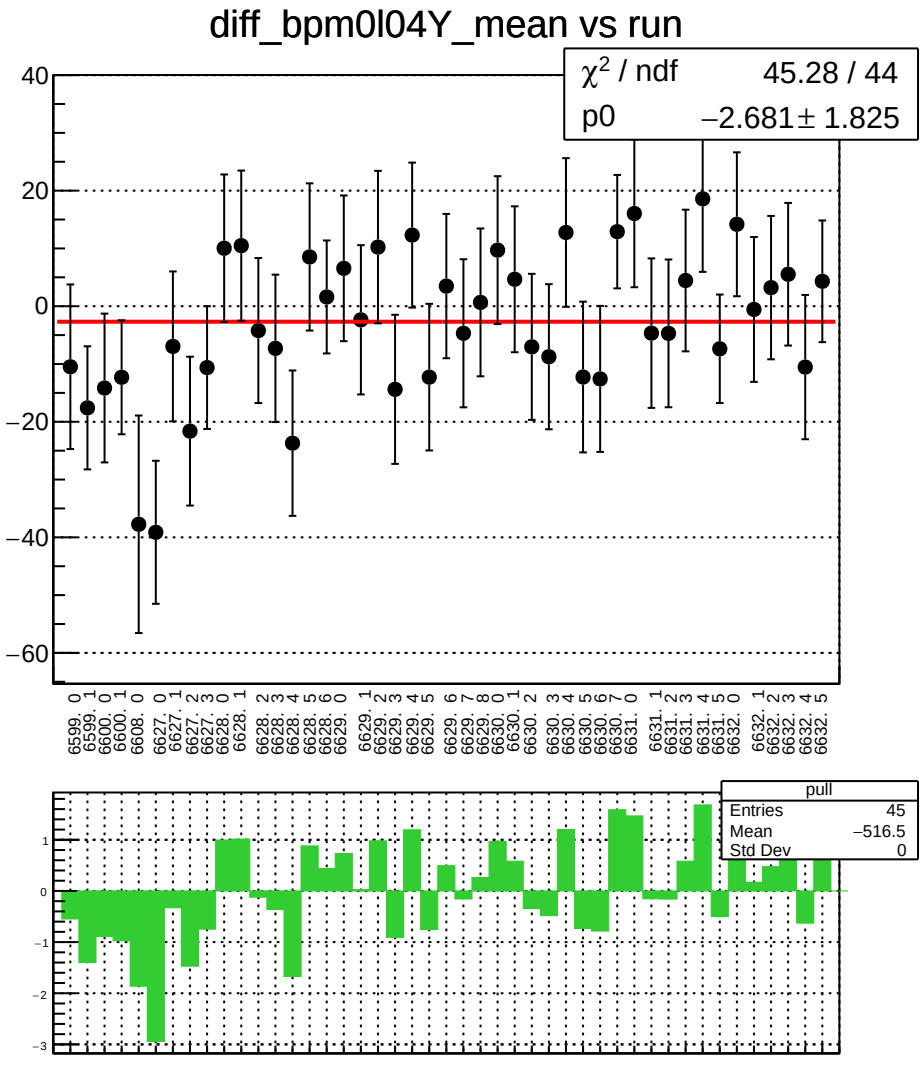

diff_bpm0l03Y_mean vs run
χ² / ndf 39.66 / 44
p0 34.21 ± 49.77
1000
500
0
−500
−1000
−1500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −76.54
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

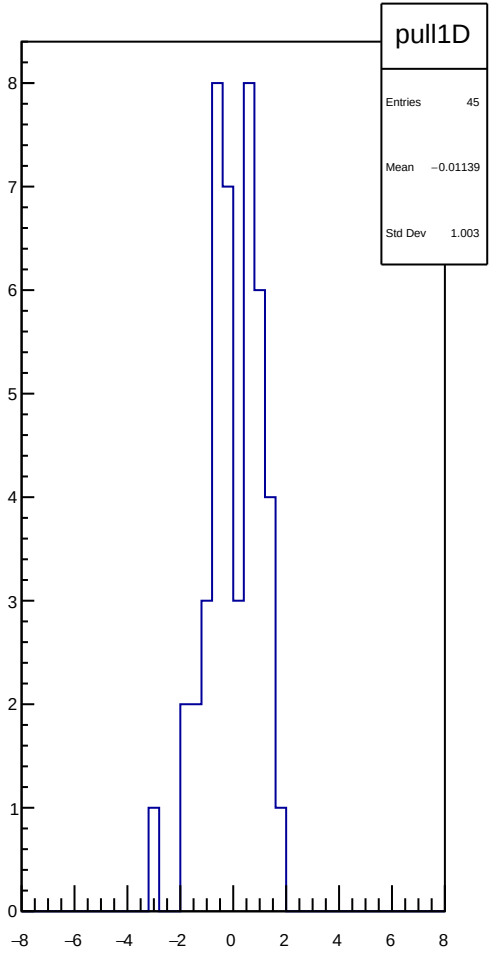

pull1D
Entries 45
Mean −0.01632
Std Dev 0.9387
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

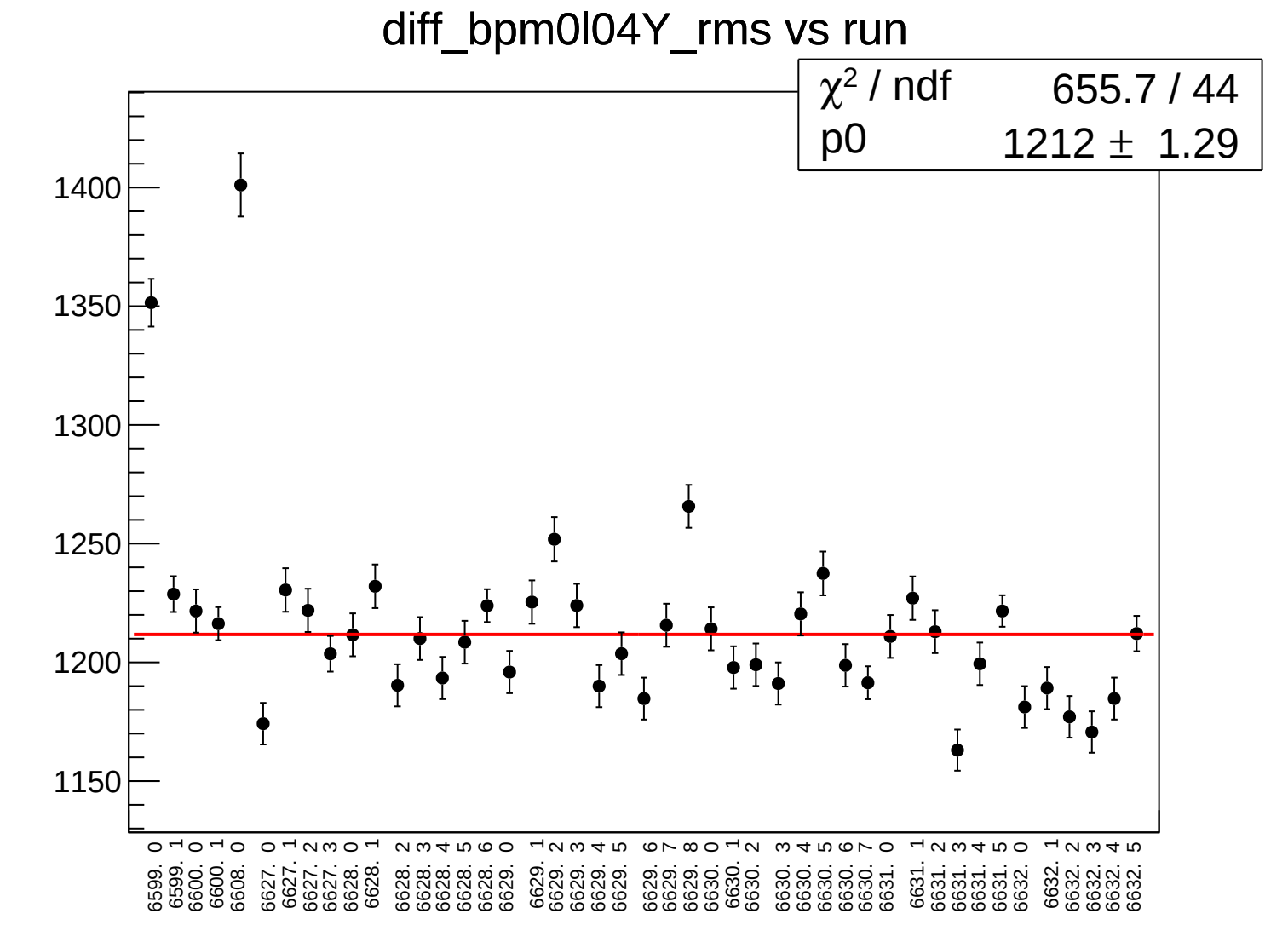

diff_bpm0l03Y_rms vs run
χ² / ndf 3.878e+04 / 44
p0 3.233e+04 ± 35.2
60000
55000
50000
45000
40000
35000
30000
25000
20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

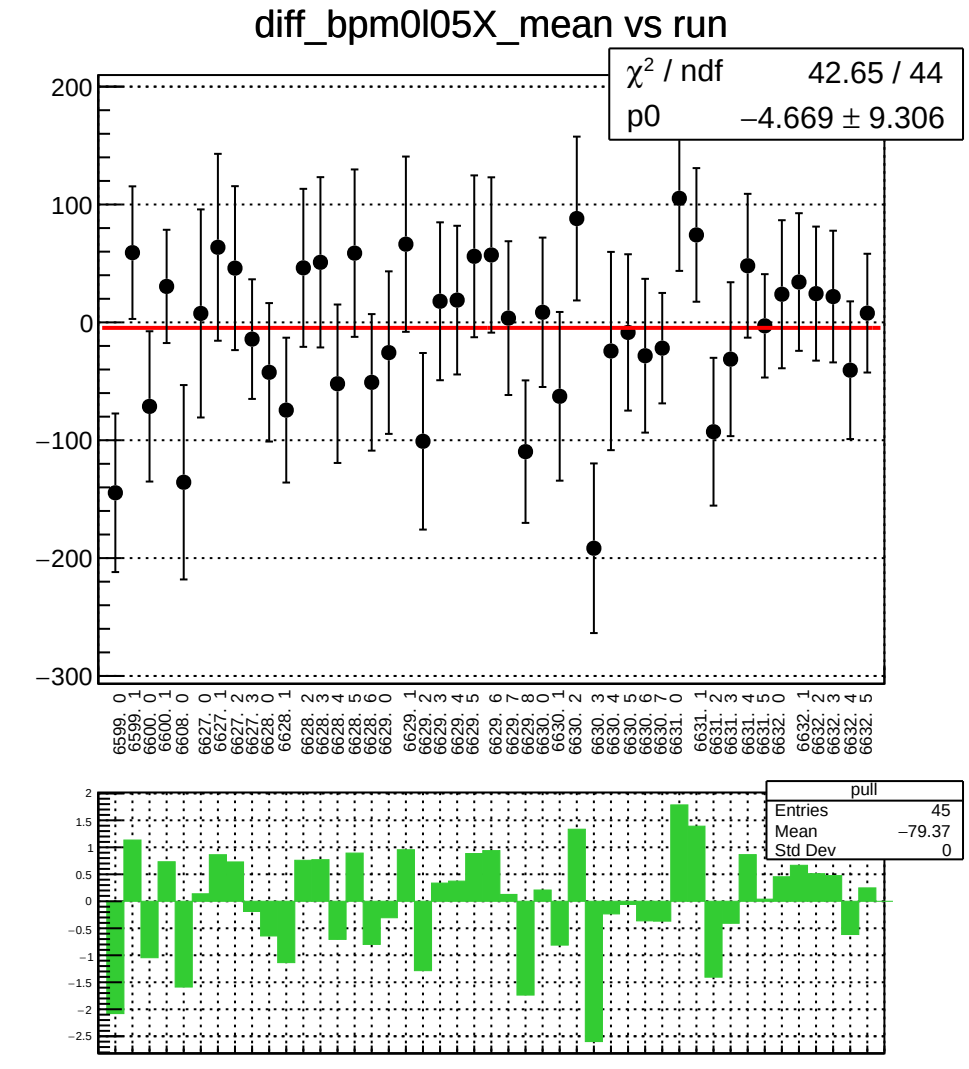

diff_bpm0l04X_mean vs run
χ² / ndf 35.99 / 44
p0 12.09 ± 2.702
pull
Entries 45
Mean 56.85
Std Dev 0
pull1D
Entries 45
Mean −0.03127
Std Dev 0.8937

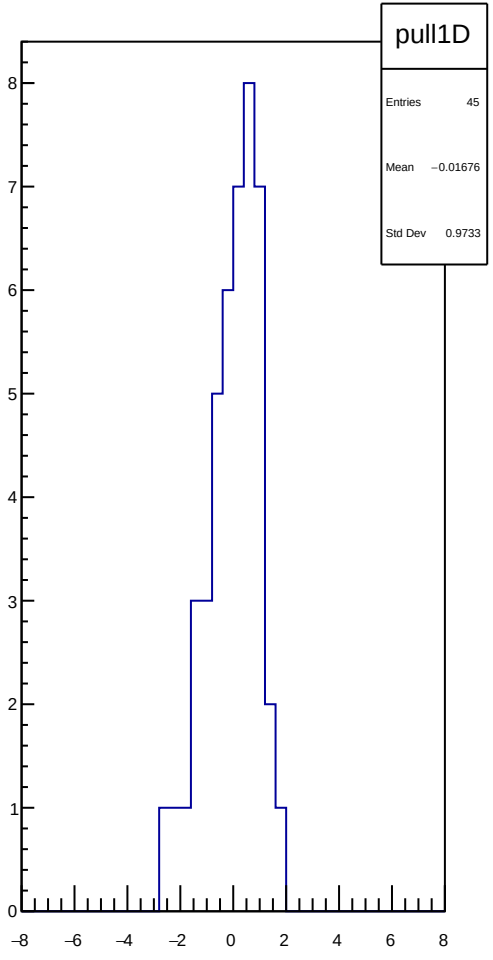

diff_bpm0l04X_rms vs run
χ² / ndf 452.5 / 44
p0 1794 ± 1.91
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

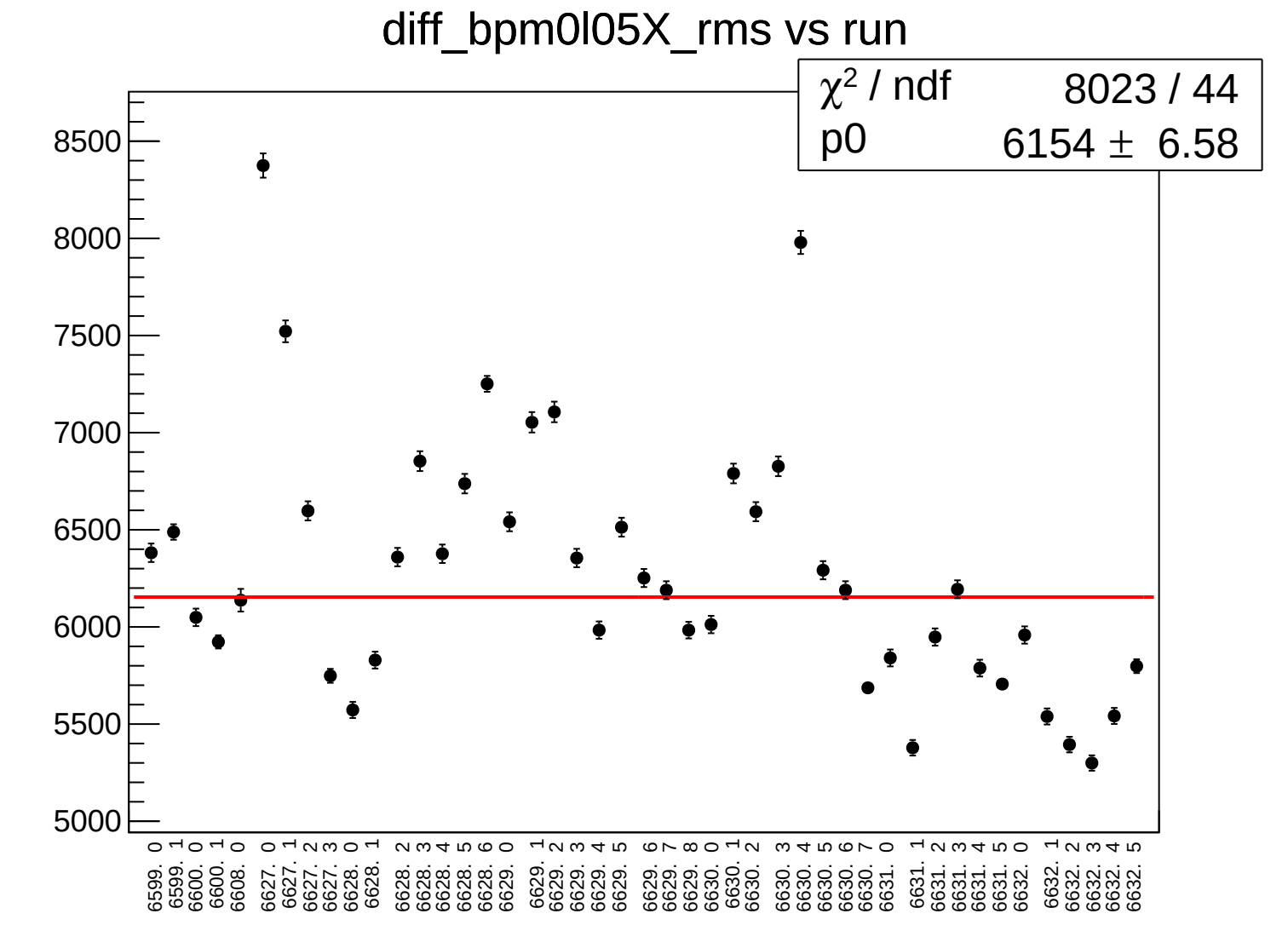

diff_bpm0l04Y_mean vs run
χ² / ndf 45.28 / 44
p0 −2.681 ± 1.825
pull
Entries 45
Mean −516.5
Std Dev 0

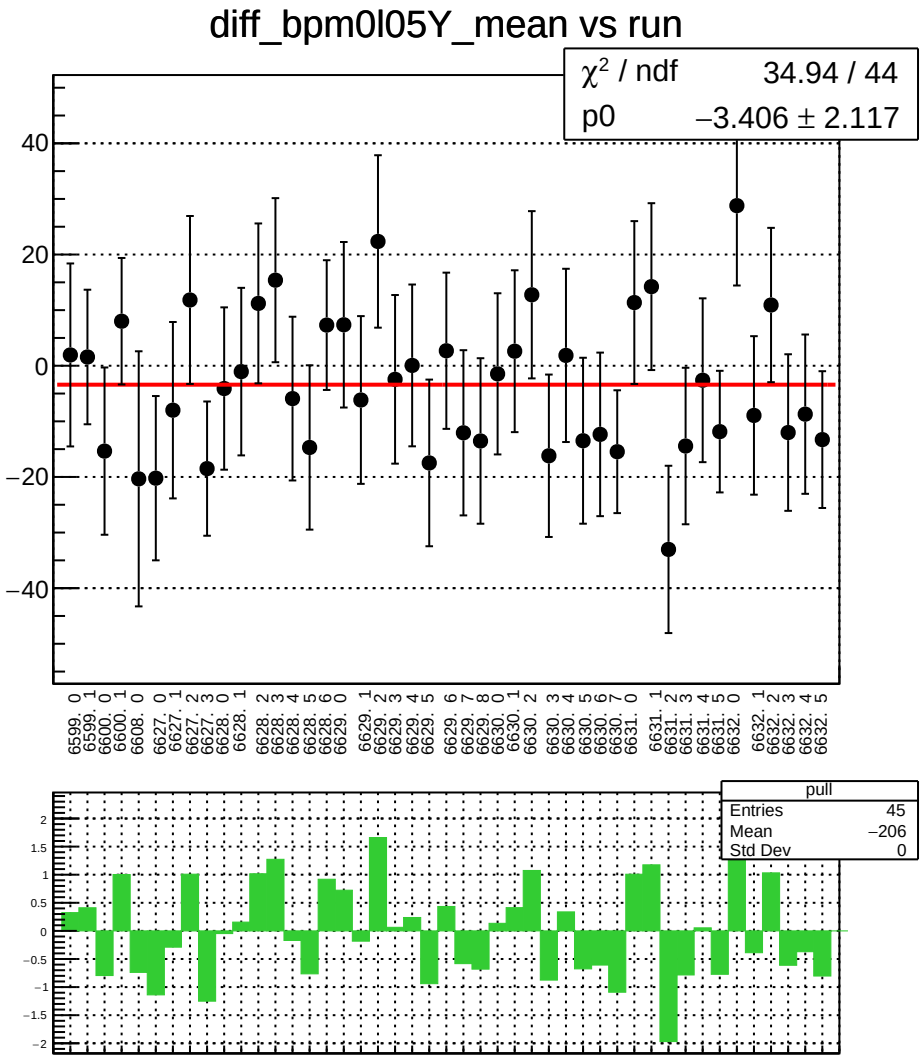

pull1D
Entries 45
Mean −0.01139
Std Dev 1.003

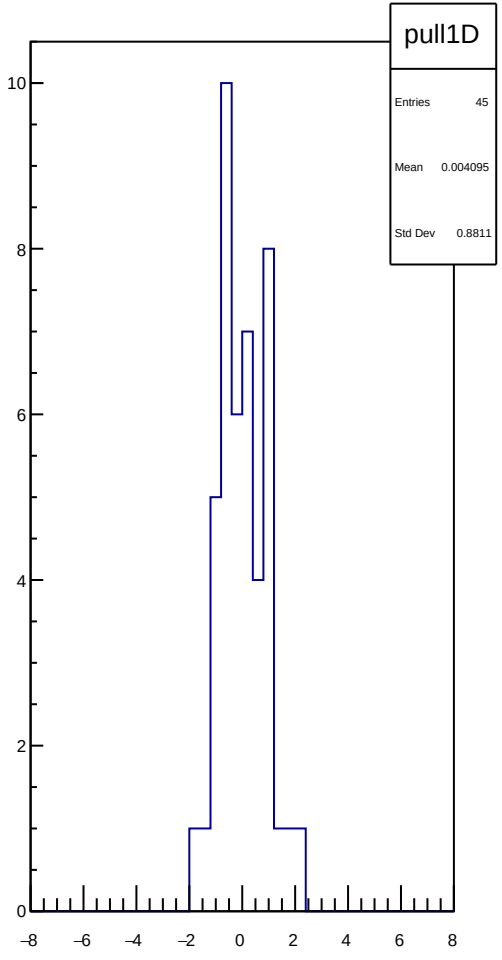

diff_bpm0l04Y_rms vs run
χ² / ndf 655.7 / 44
p0 1212 ± 1.29
1400
1350
1300
1250
1200
1150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

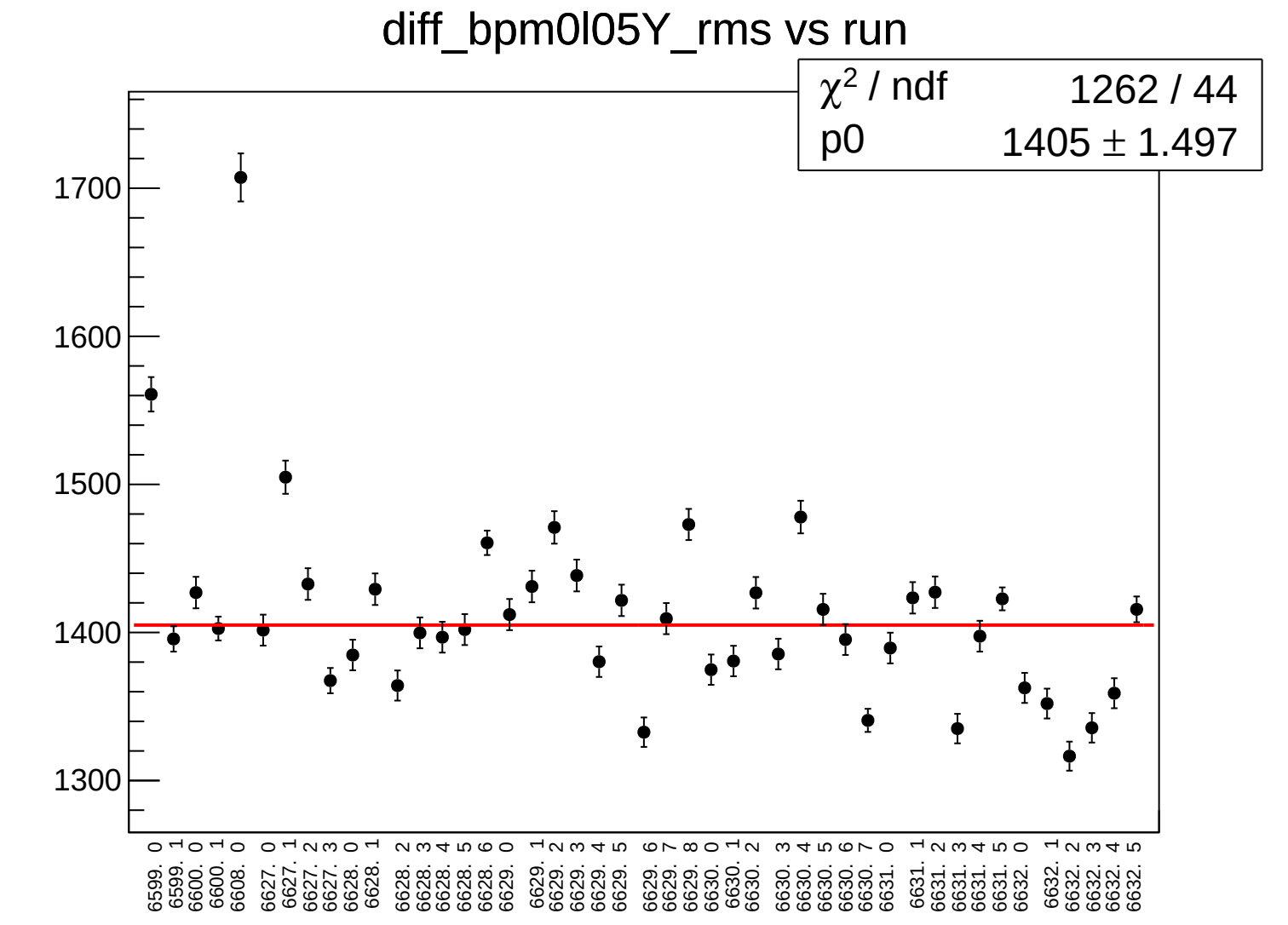

diff_bpm0l05X_mean vs run
χ² / ndf 42.65 / 44
p0 −4.669 ± 9.306
200
100
0
−100
−200
−300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −79.37
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

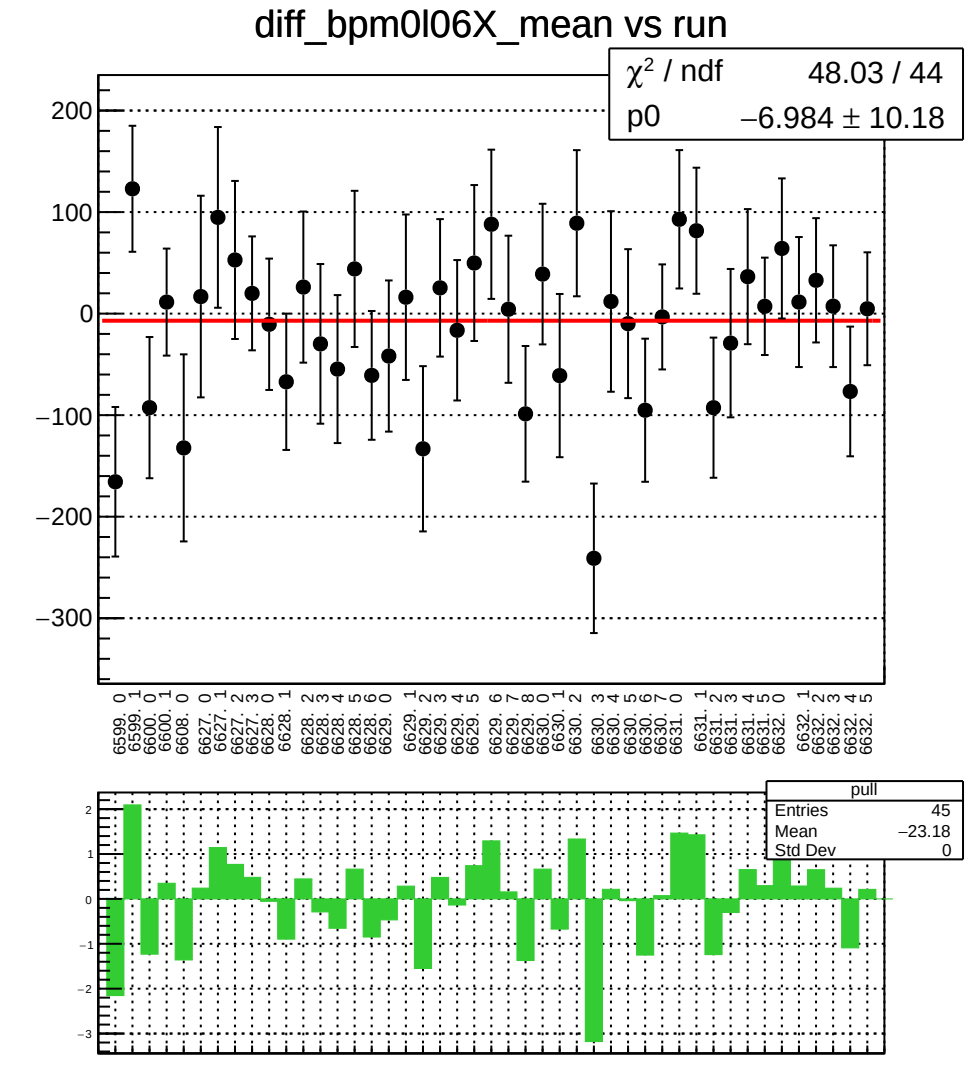

pull1D
Entries 45
Mean −0.01676
Std Dev 0.9733
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

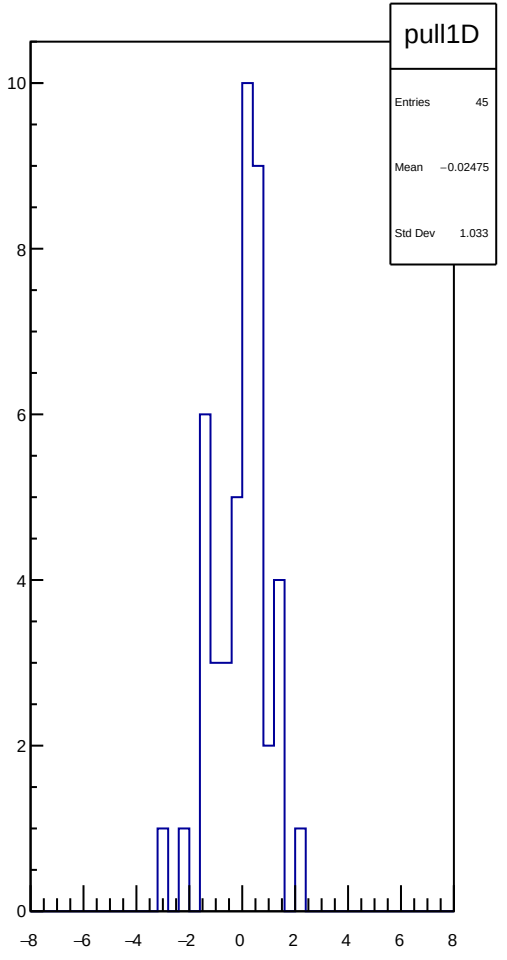

diff_bpm0l05X_rms vs run
χ² / ndf 8023 / 44
p0 6154 ± 6.58
8500
8000
7500
7000
6500
6000
5500
5000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

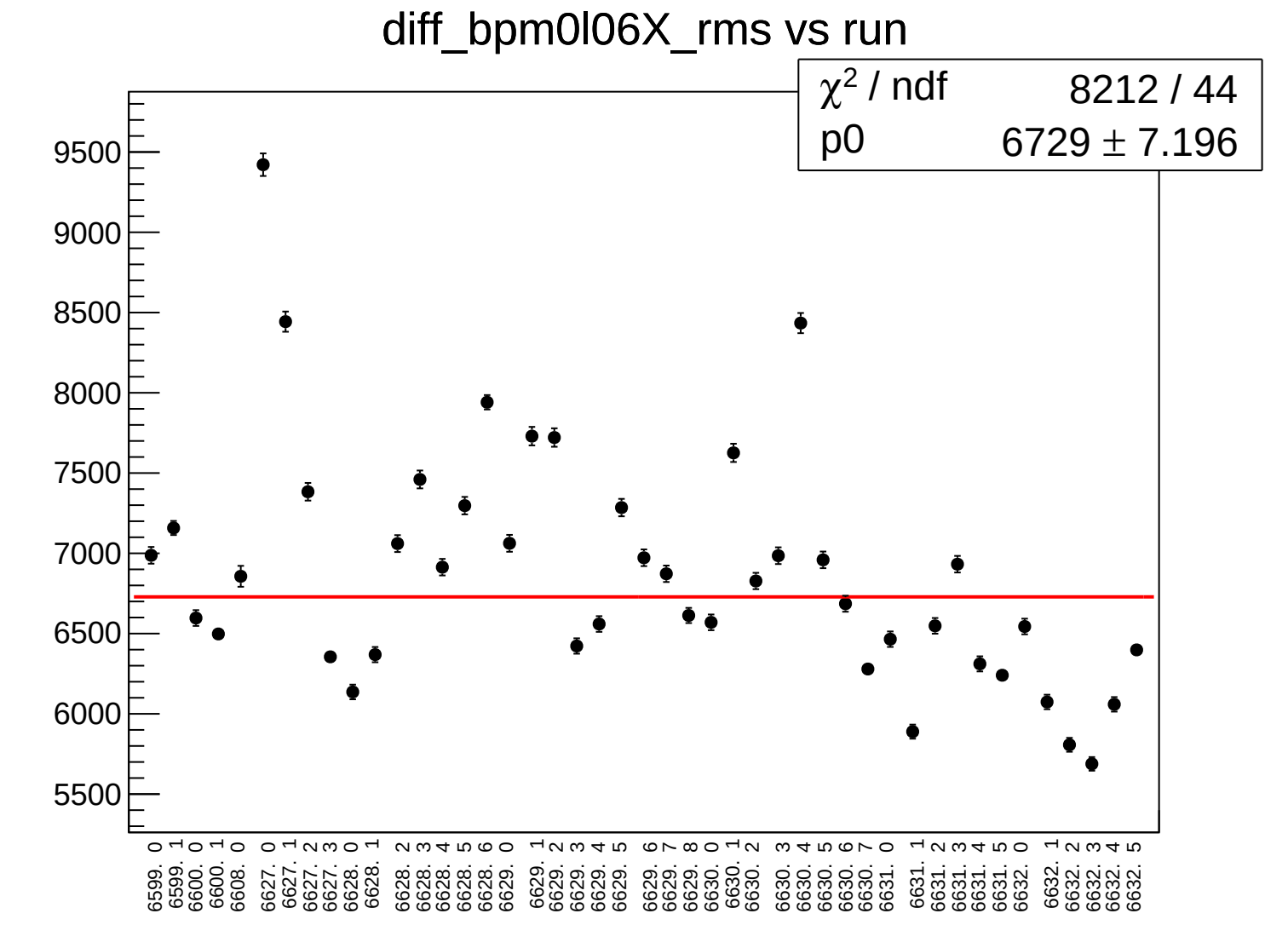

diff_bpm0l05Y_mean vs run
χ² / ndf 34.94 / 44
p0 −3.406 ± 2.117
40
20
0
−20
−40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −206
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

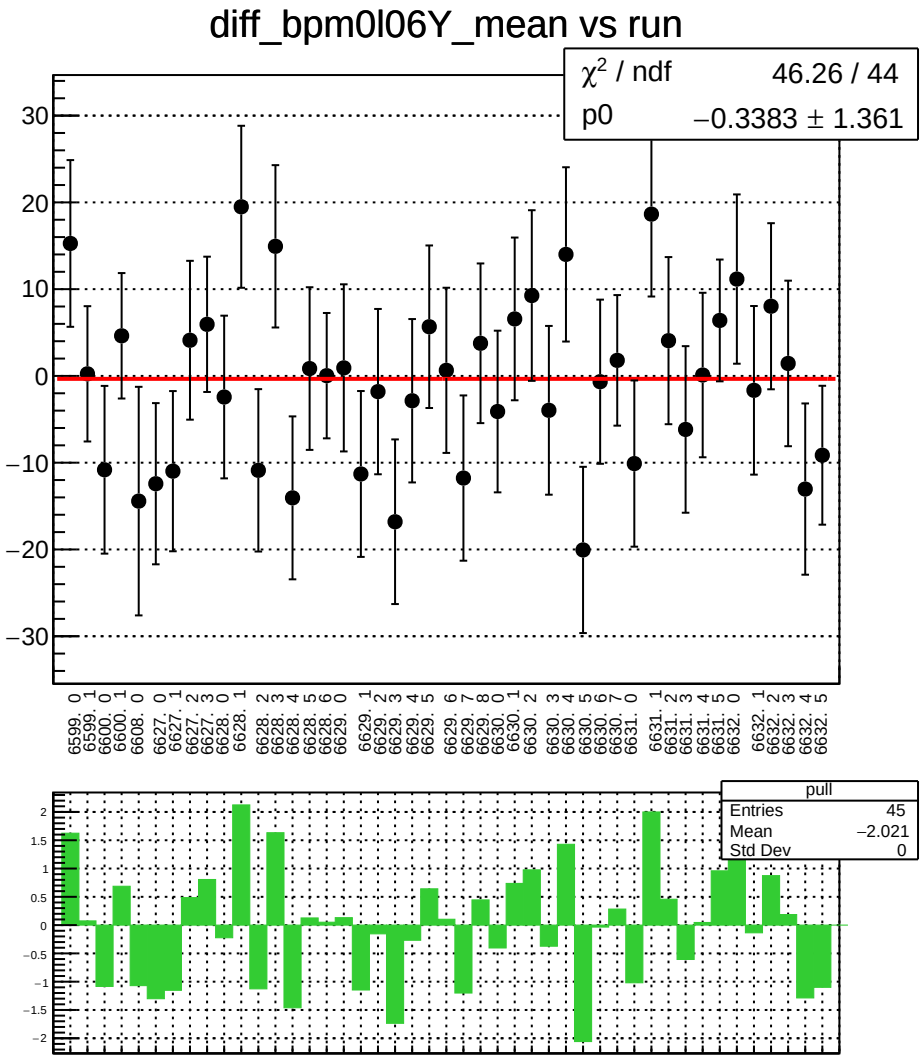

pull1D
Entries 45
Mean 0.004095
Std Dev 0.8811
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

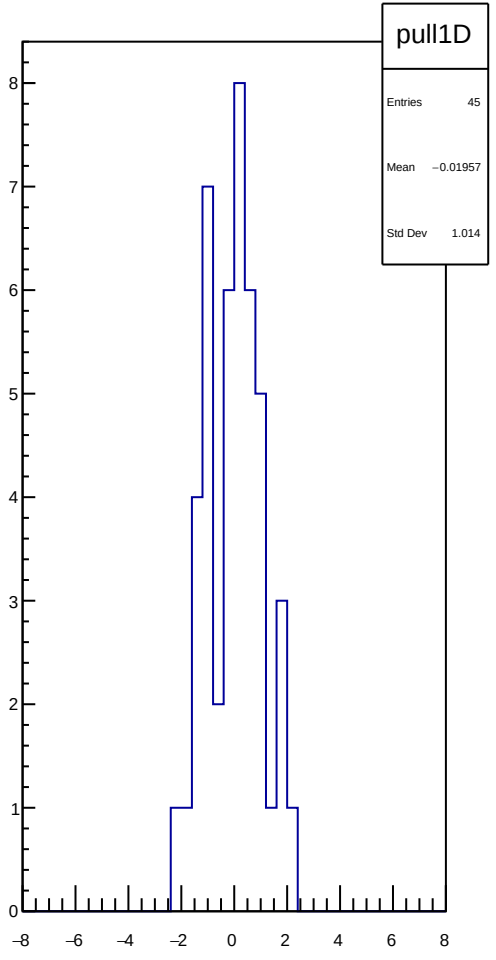

diff_bpm0l05Y_rms vs run
χ² / ndf 1262 / 44
p0 1405 ± 1.497
1700
1600
1500
1400
1300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

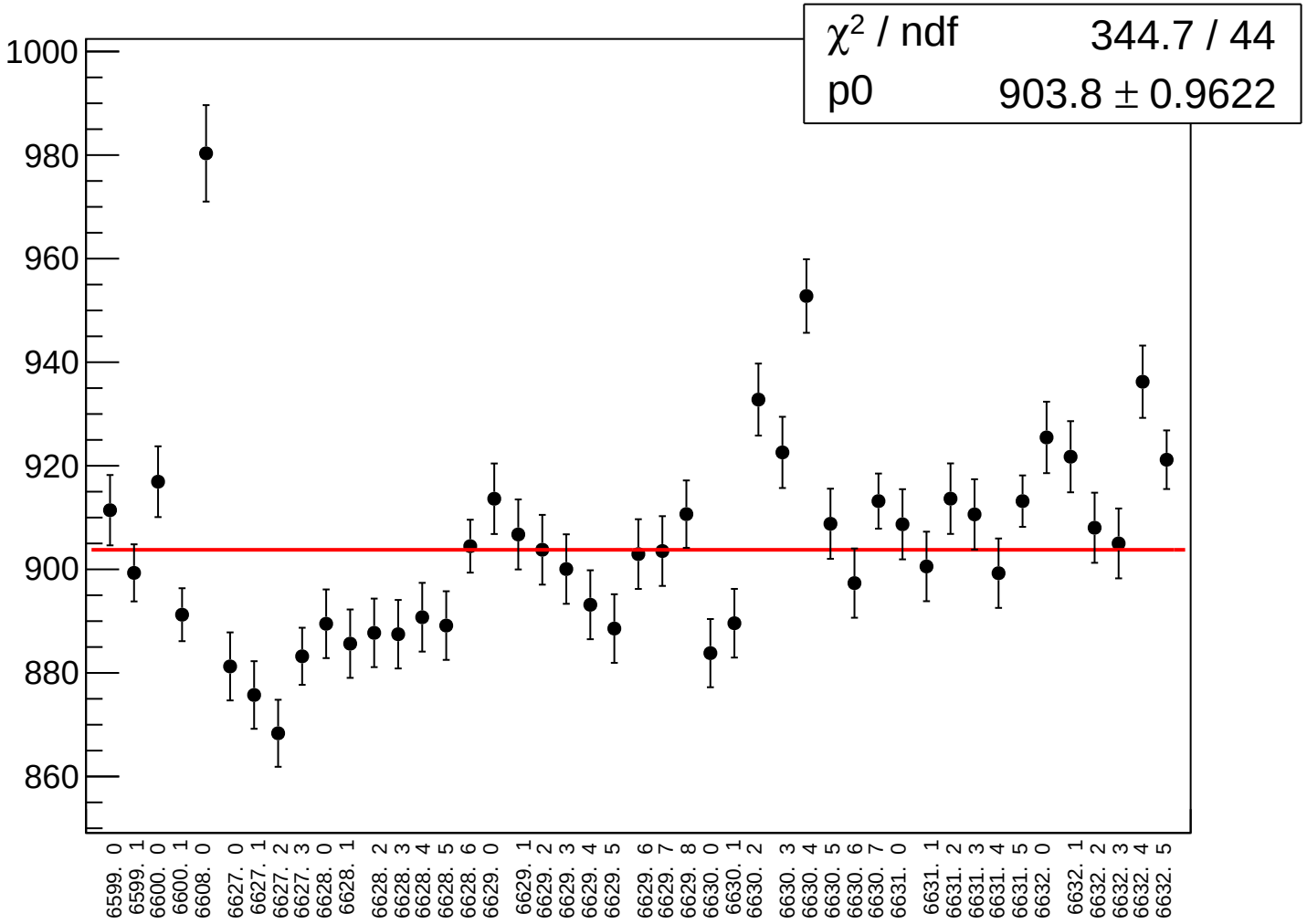

diff_bpm0l06X_mean vs run
χ² / ndf 48.03 / 44
p0 −6.984 ± 10.18
200
100
0
−100
−200
−300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −23.18
Std Dev 0
2
1
0
−1
−2
−3

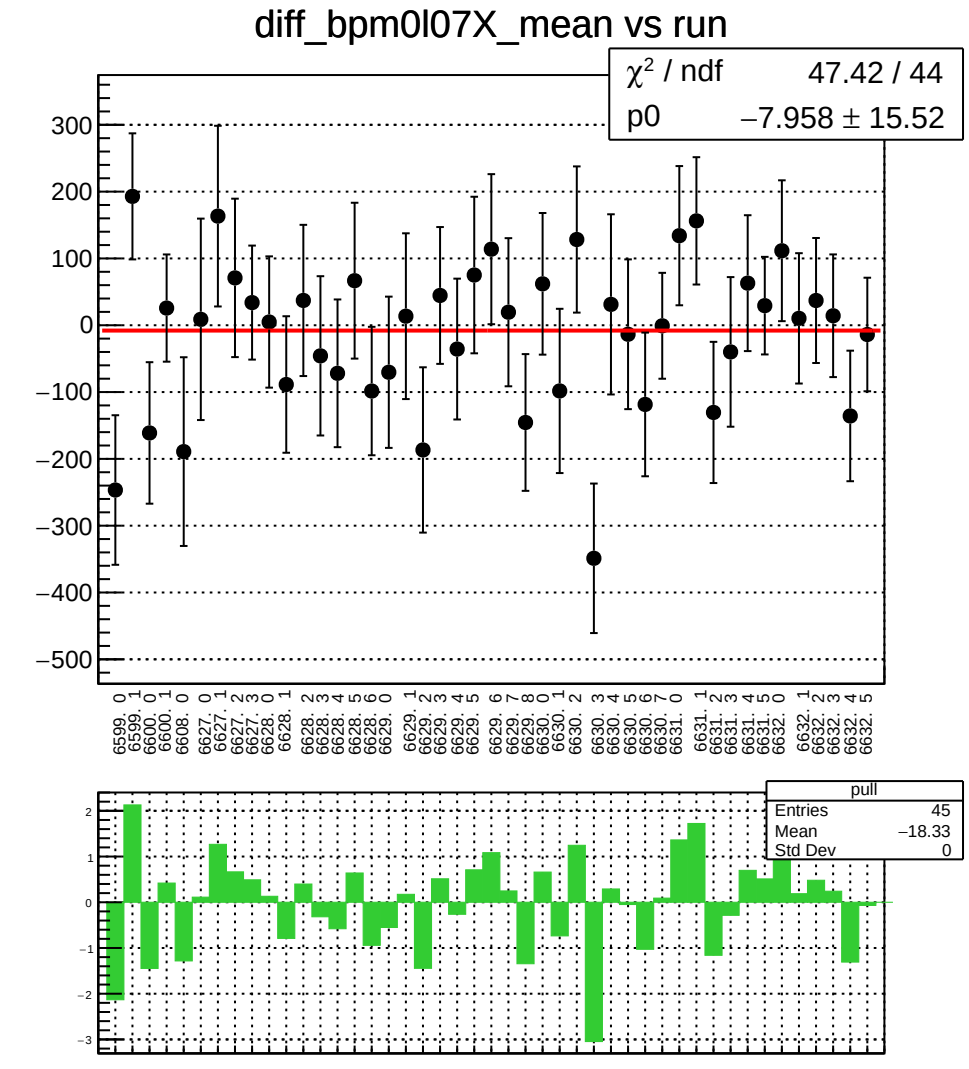

pull1D
Entries 45
Mean −0.02475
Std Dev 1.033
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

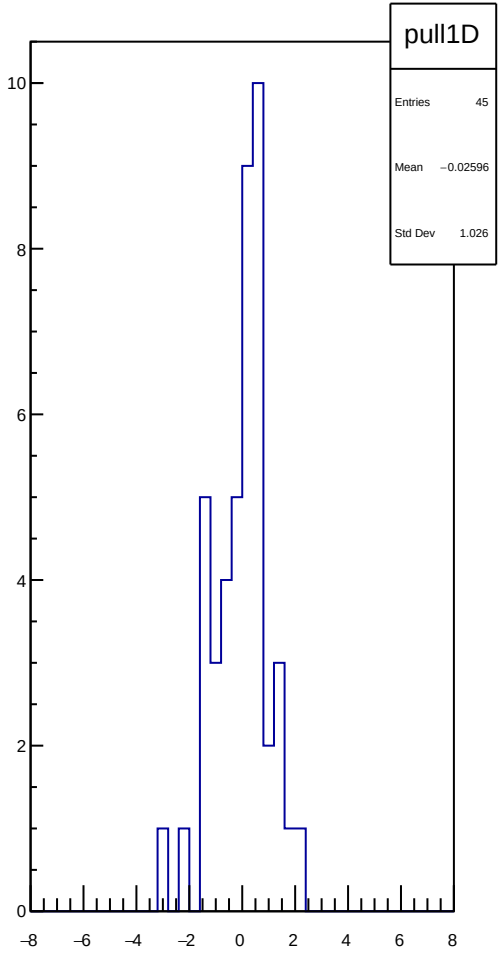

diff_bpm0l06X_rms vs run
χ² / ndf 8212 / 44
p0 6729 ± 7.196
9500
9000
8500
8000
7500
7000
6500
6000
5500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

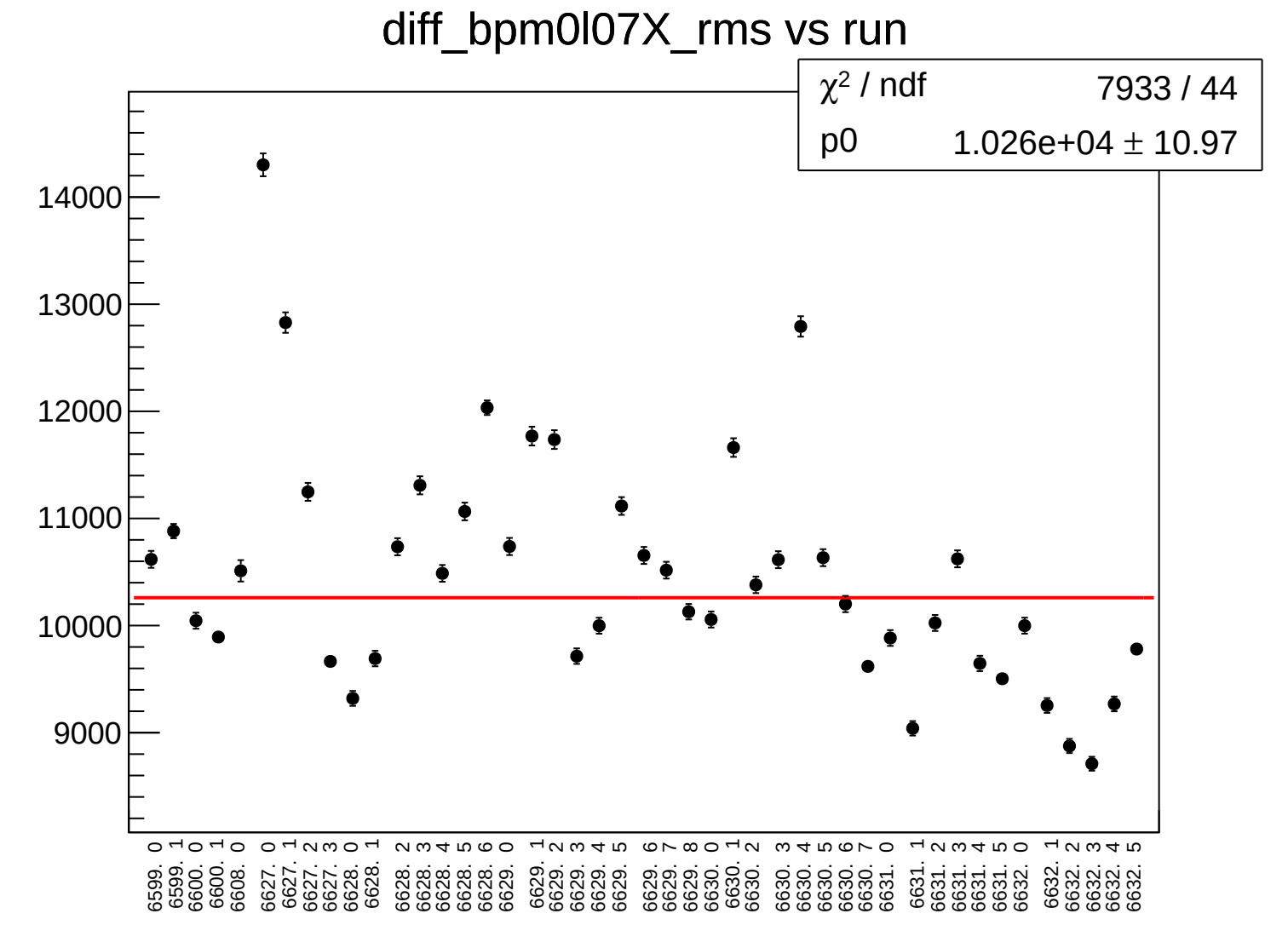

diff_bpm0l06Y_mean vs run
χ² / ndf 46.26 / 44
p0 −0.3383 ± 1.361
pull
Entries 45
Mean −2.021
Std Dev 0

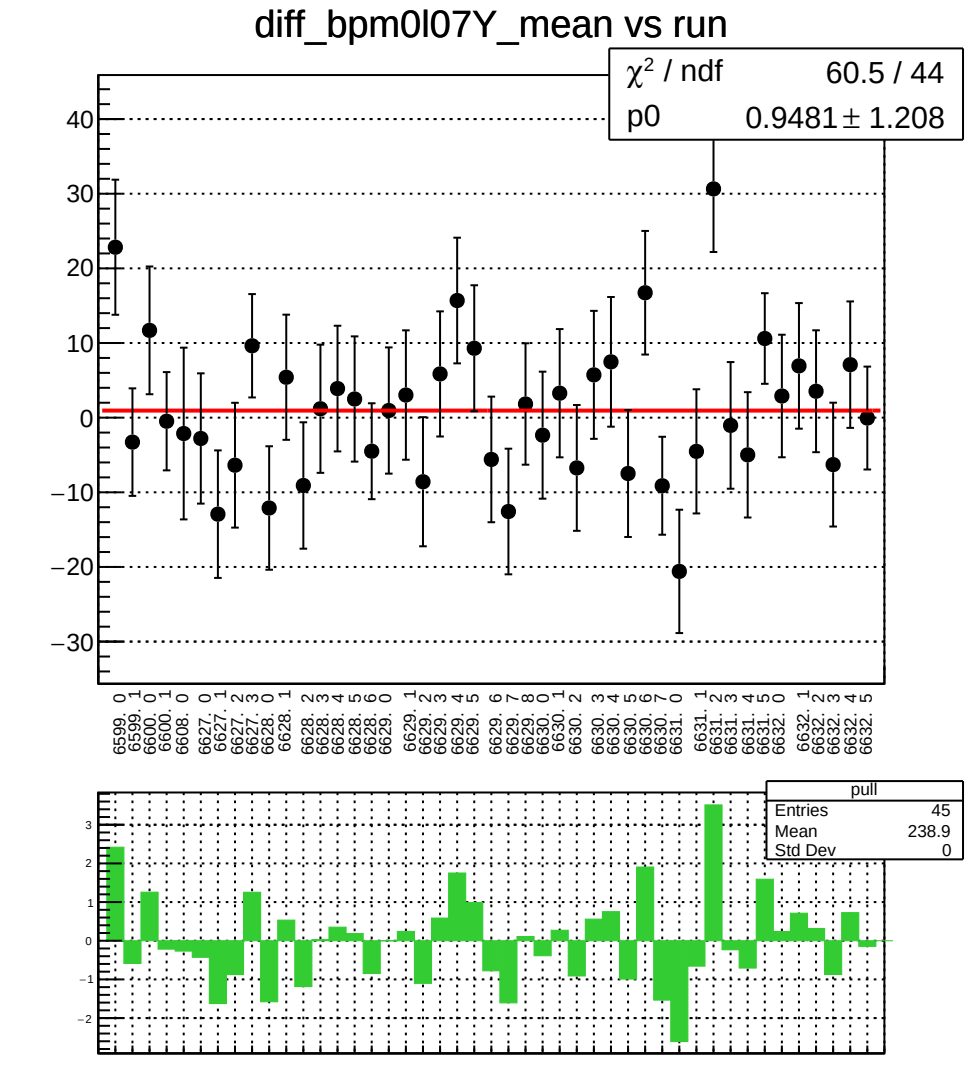

pull1D
Entries 45
Mean −0.01957
Std Dev 1.014

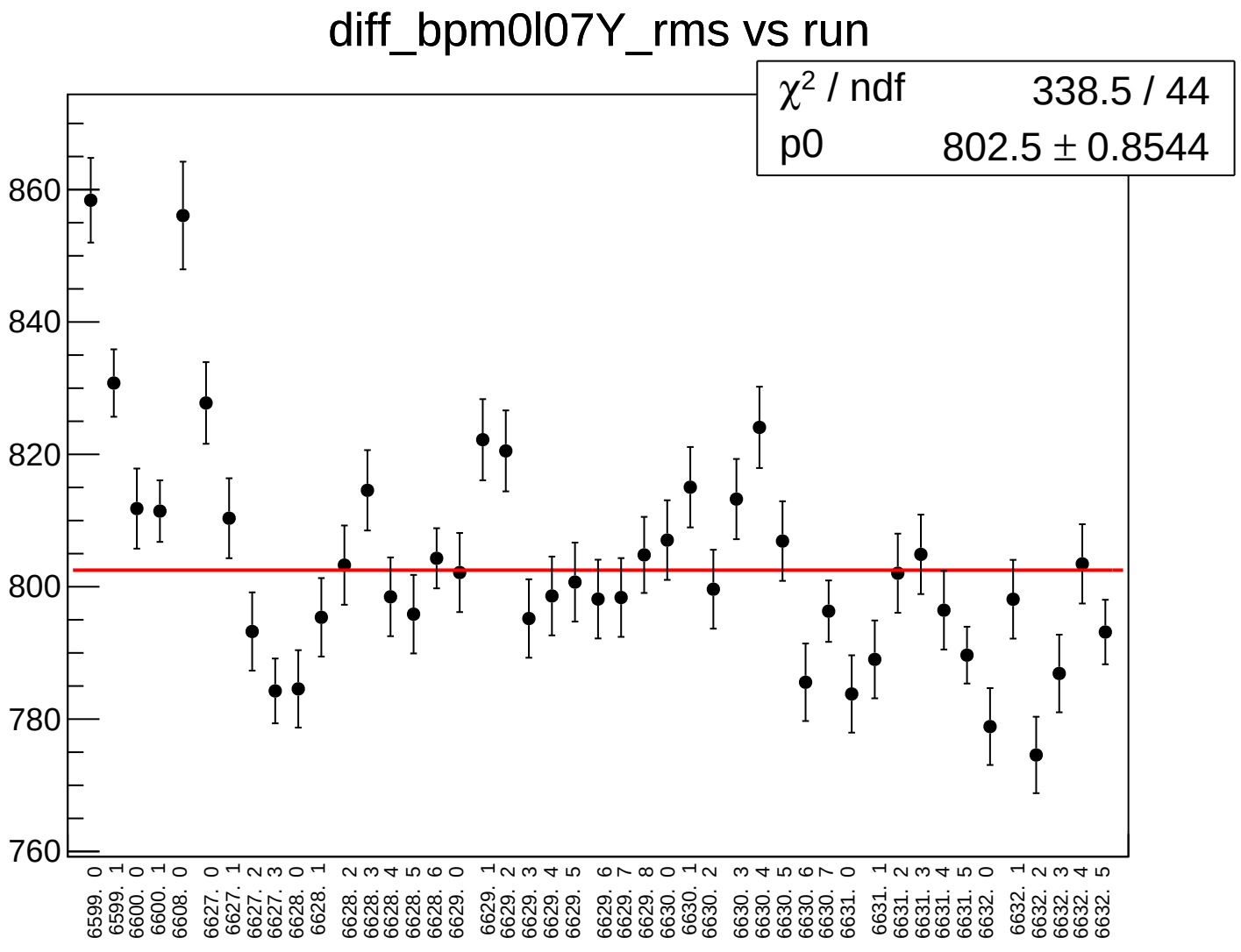

diff_bpm0l06Y_rms vs run
χ² / ndf 344.7 / 44
p0 903.8 ± 0.9622
1000
980
960
940
920
900
880
860
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

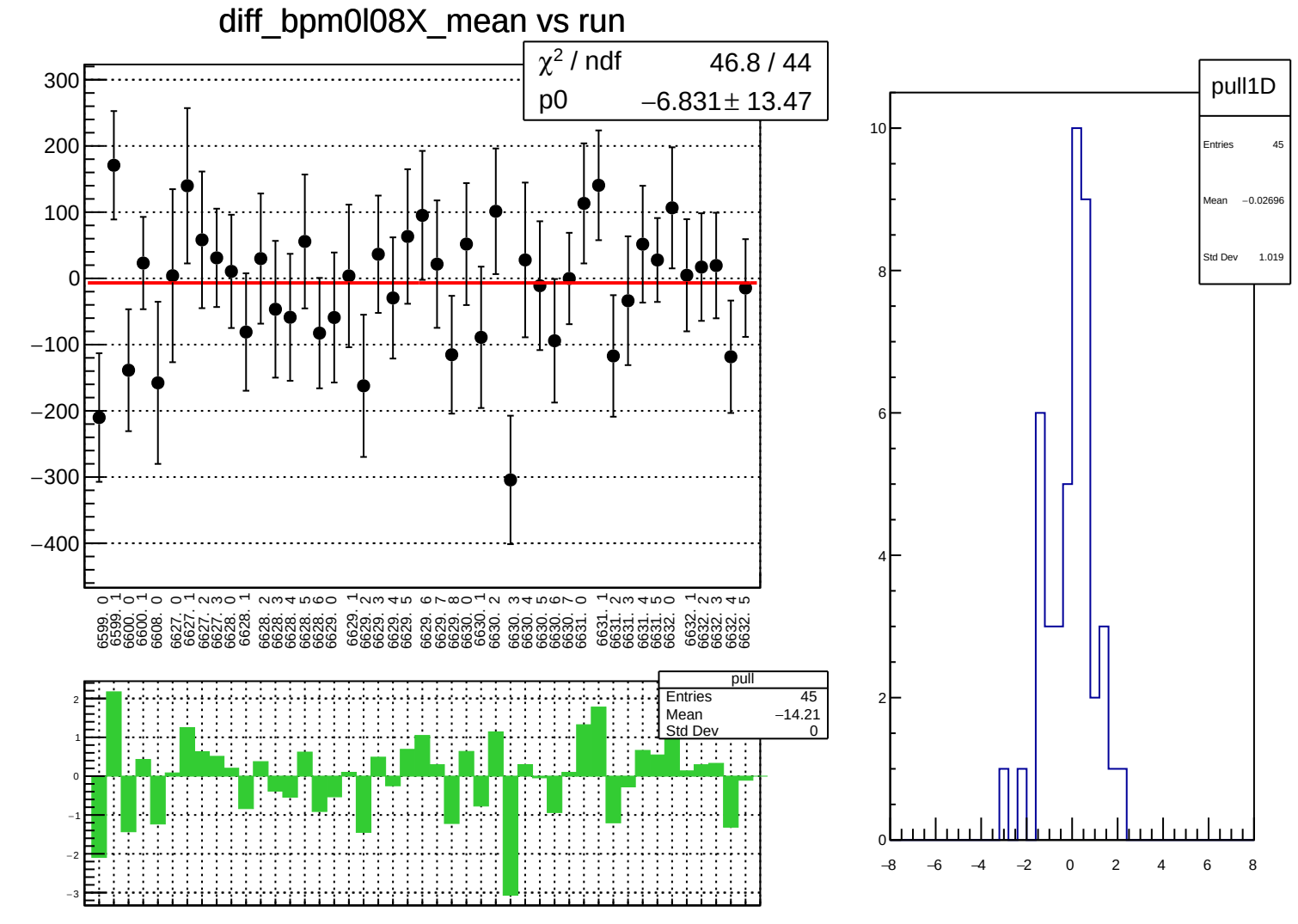

diff_bpm0l07X_mean vs run
χ² / ndf 47.42 / 44
p0 −7.958 ± 15.52
300
200
100
0
−100
−200
−300
−400
−500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −18.33
Std Dev 0
2
1
0
−1
−2
−3

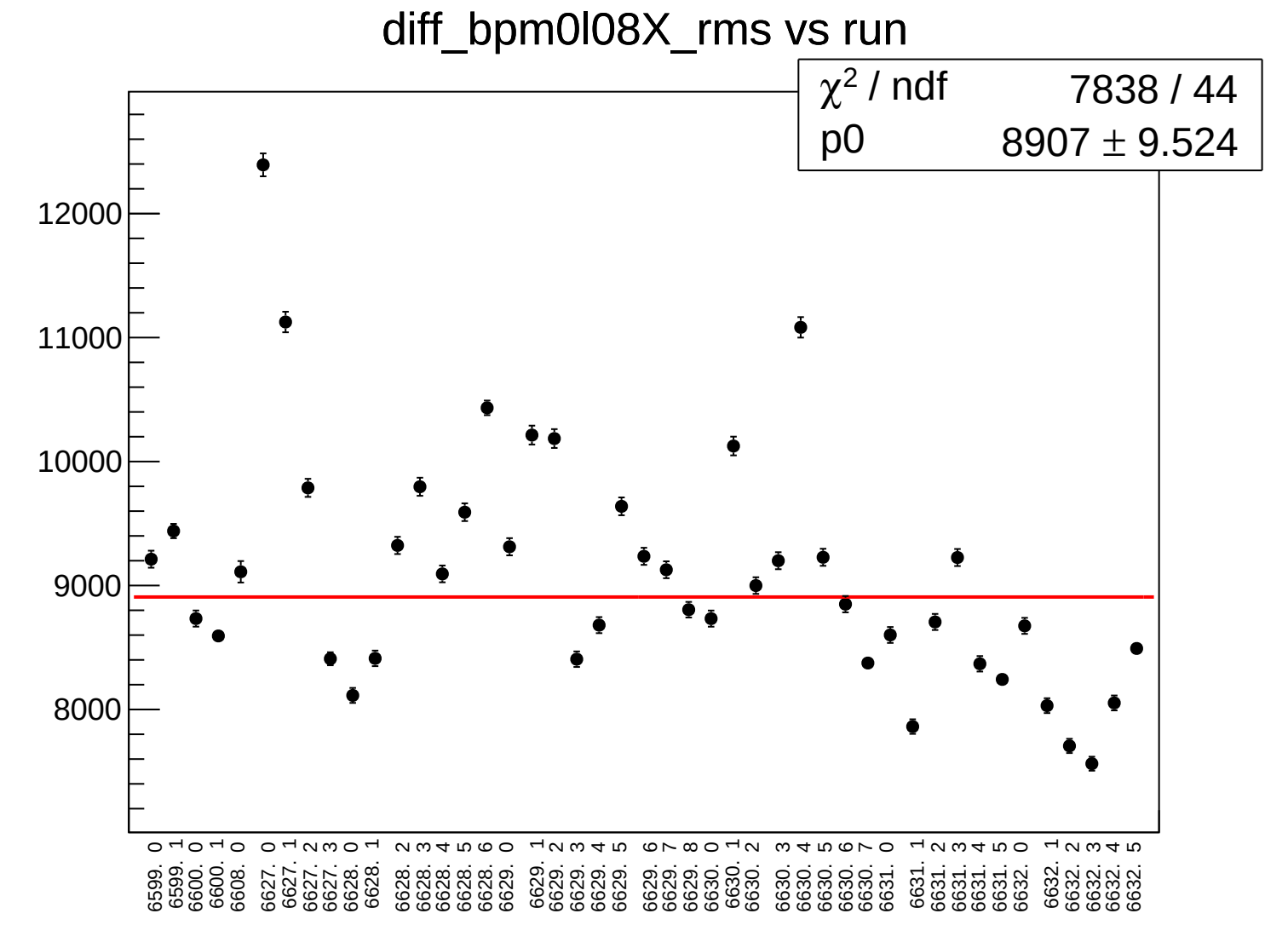

pull1D
Entries 45
Mean −0.02596
Std Dev 1.026
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

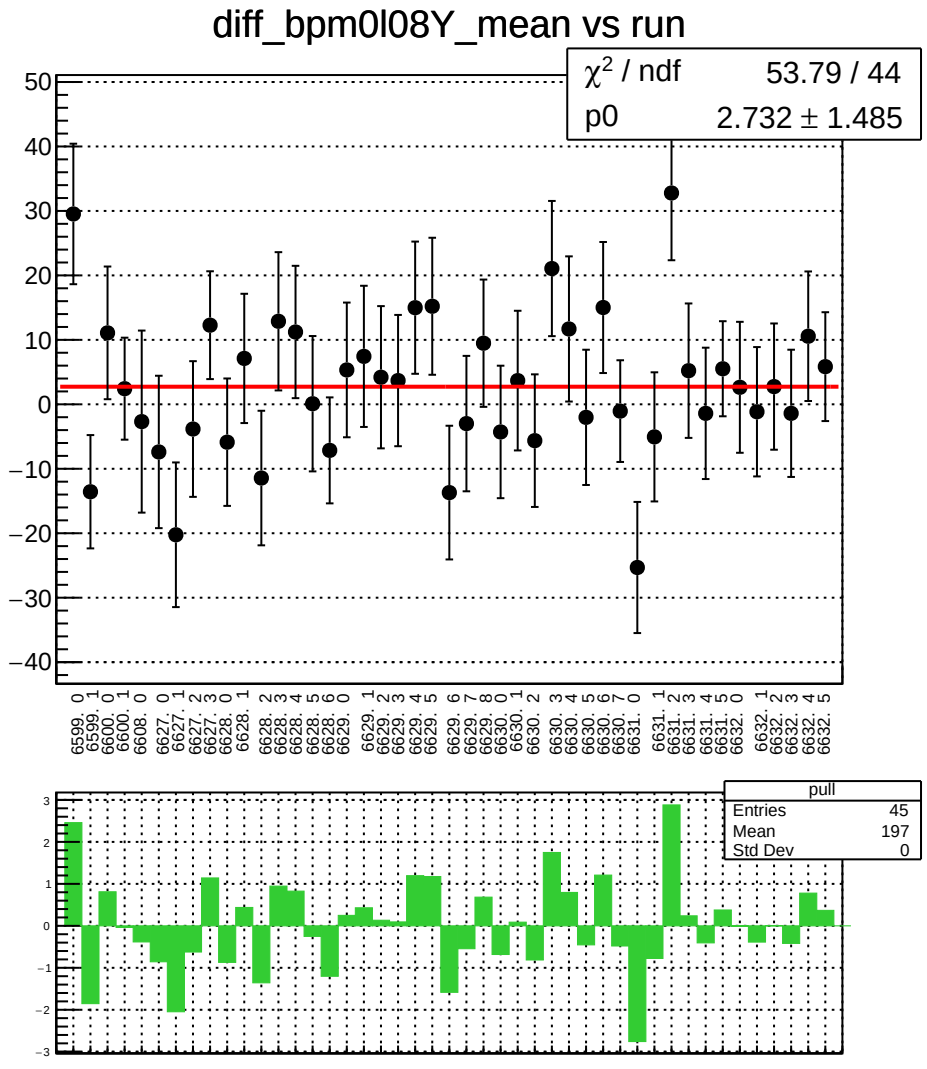

diff_bpm0l07X_rms vs run
χ² / ndf 7933 / 44
p0 1.026e+04 ± 10.97
14000
13000
12000
11000
10000
9000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

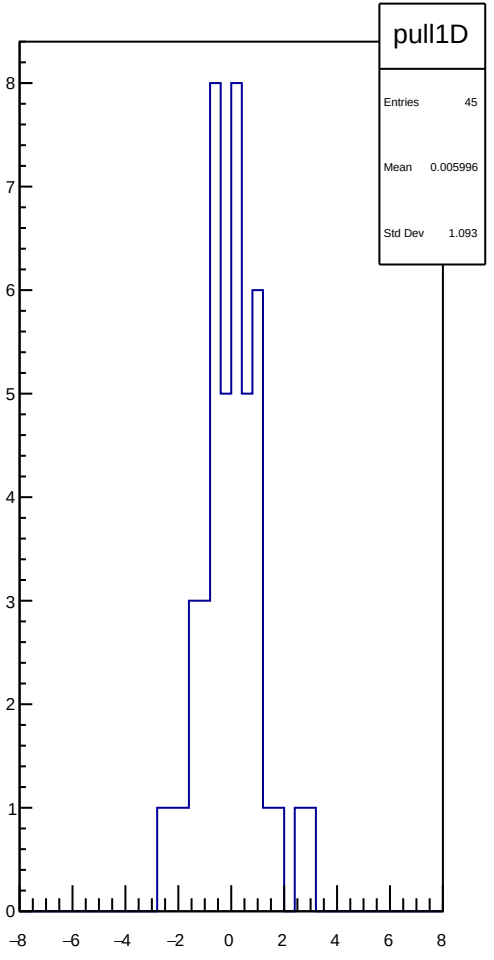

diff_bpm0l07Y_mean vs run
χ² / ndf 60.5 / 44
p0 0.9481 ± 1.208
40
30
20
10
0
−10
−20
−30
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 238.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.00324
Std Dev 1.159
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

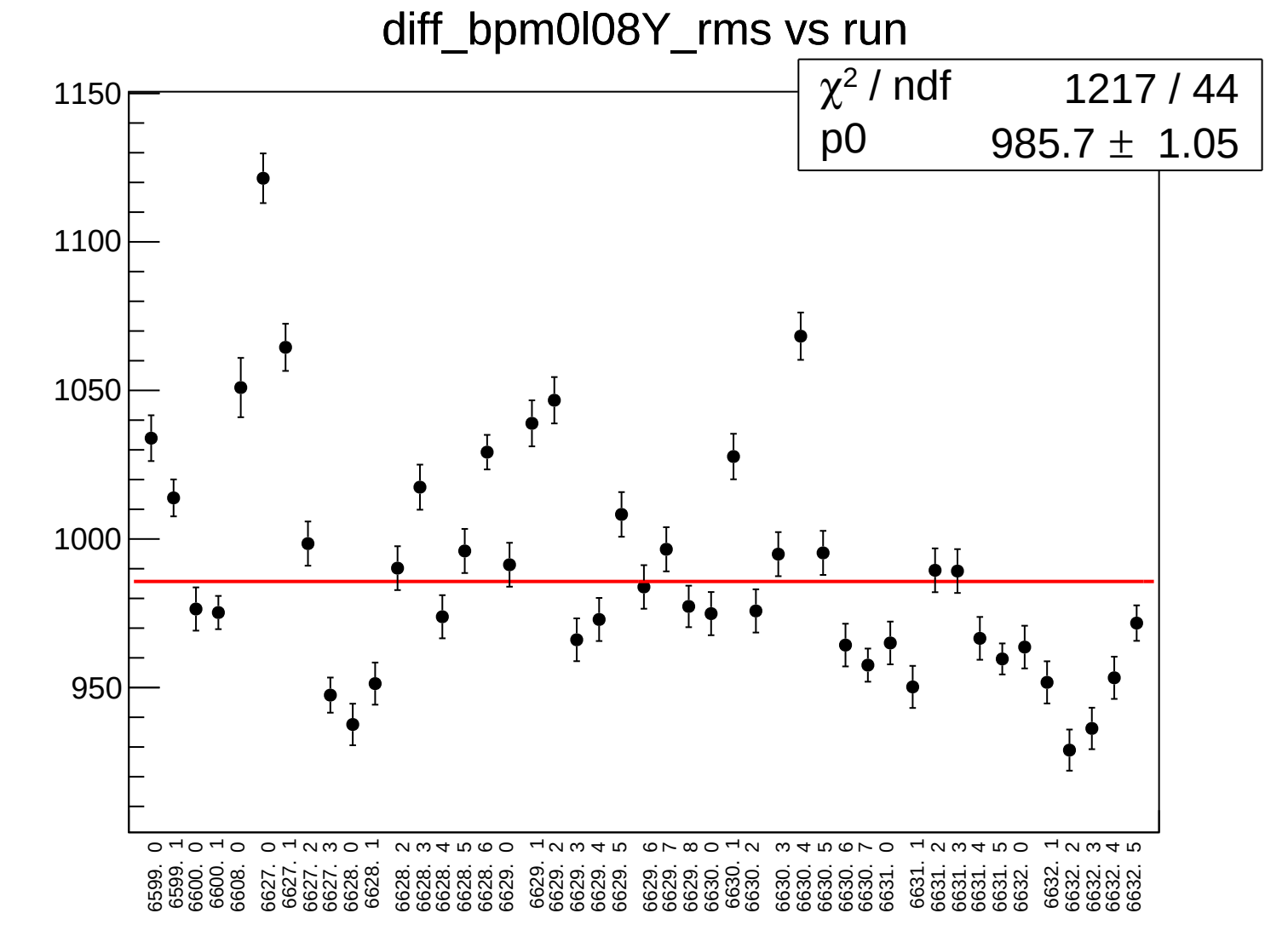

diff_bpm0l07Y_rms vs run
χ² / ndf 338.5 / 44
p0 802.5 ± 0.8544
860
840
820
800
780
760
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

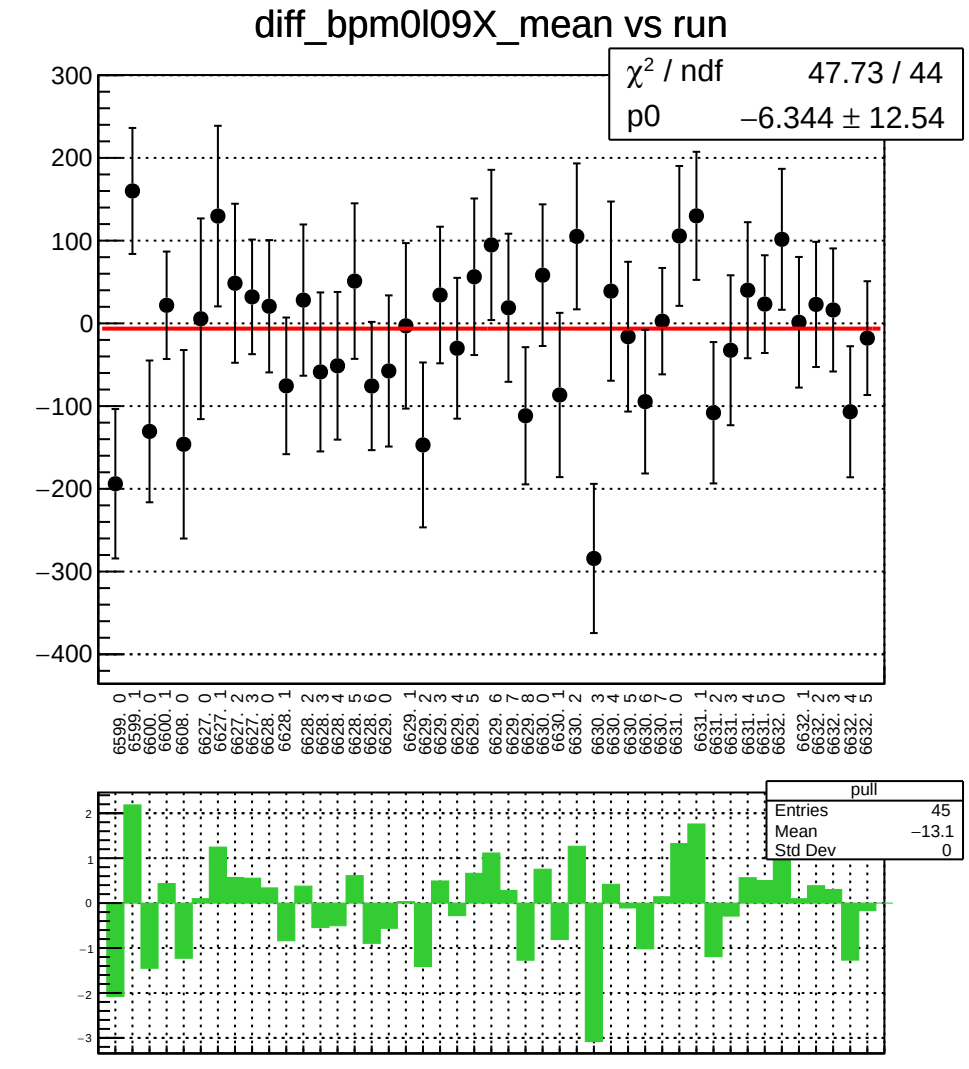

diff_bpm0l08X_mean vs run
χ² / ndf 46.8 / 44
p0 −6.831 ± 13.47
pull
Entries 45
Mean −14.21
Std Dev 0
pull1D
Entries 45
Mean −0.02696
Std Dev 1.019

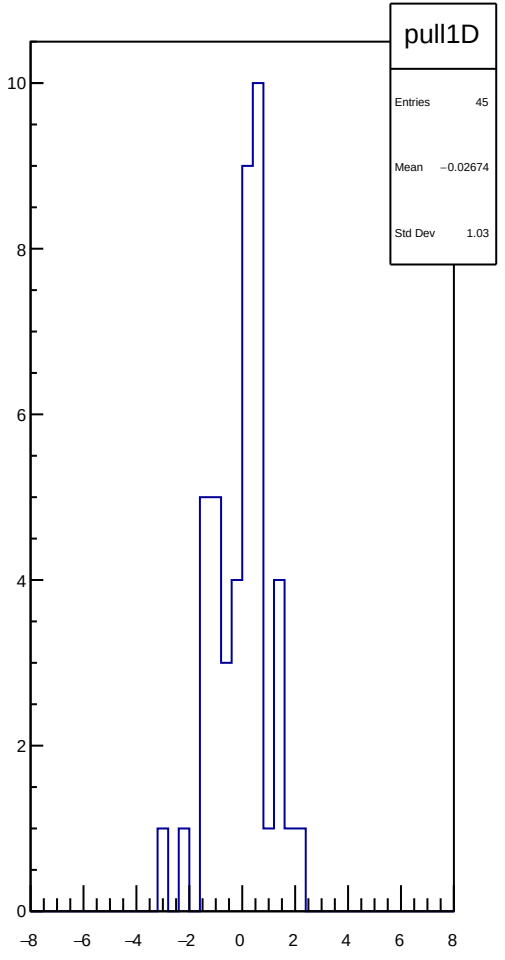

diff_bpm0l08X_rms vs run
χ² / ndf 7838 / 44
p0 8907 ± 9.524
12000
11000
10000
9000
8000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

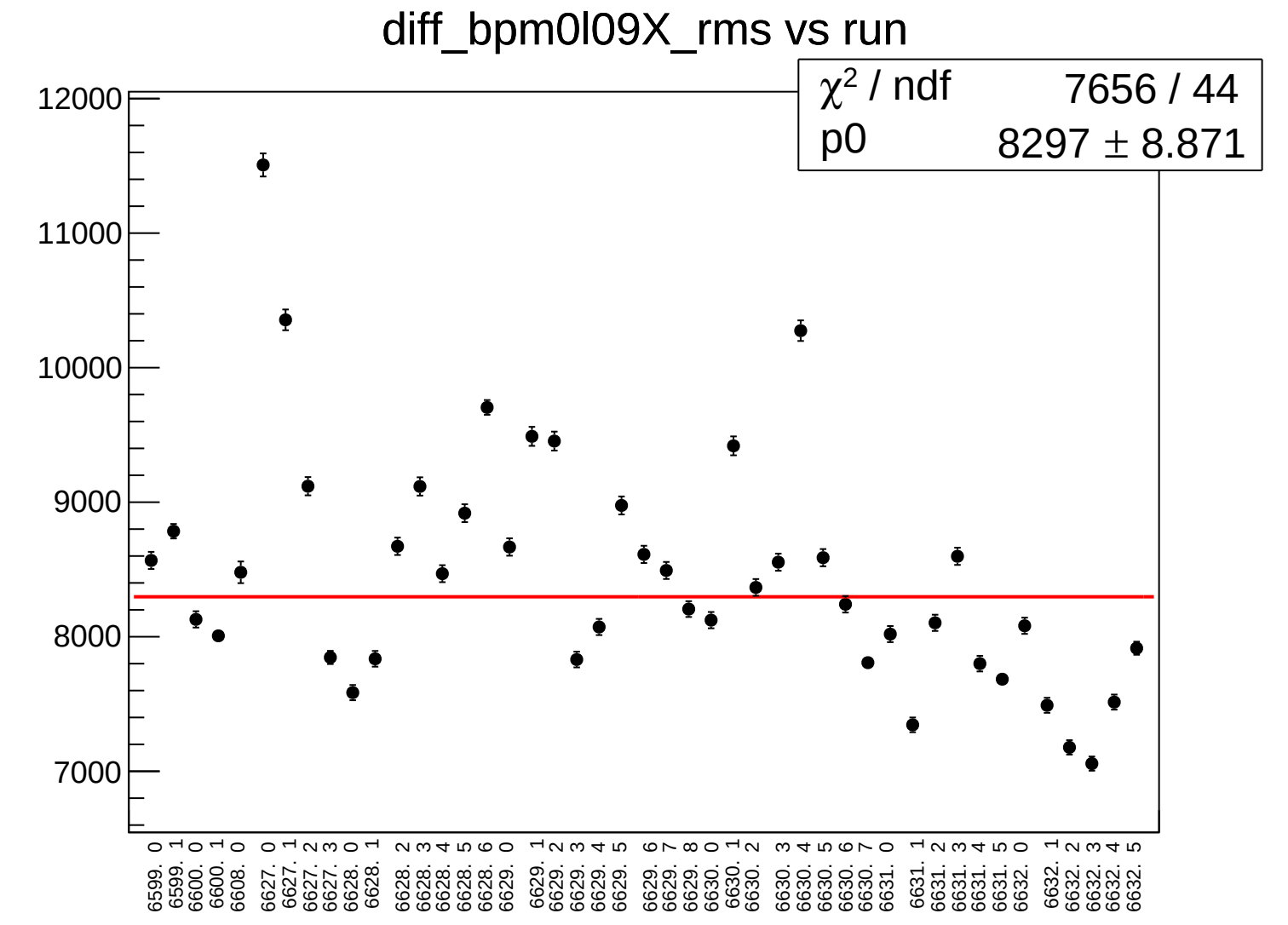

diff_bpm0l08Y_mean vs run
χ² / ndf 53.79 / 44
p0 2.732 ± 1.485
pull
Entries 45
Mean 197
Std Dev 0

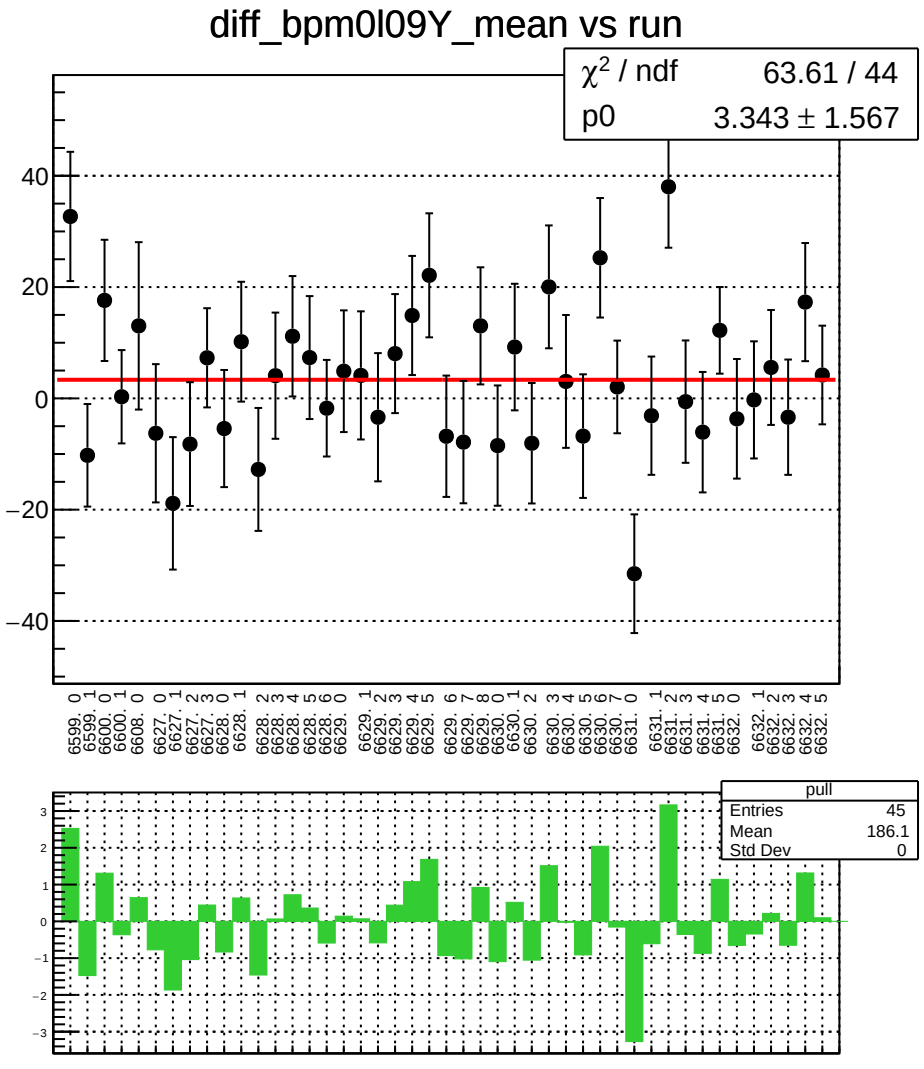

pull1D
Entries 45
Mean 0.005996
Std Dev 1.093

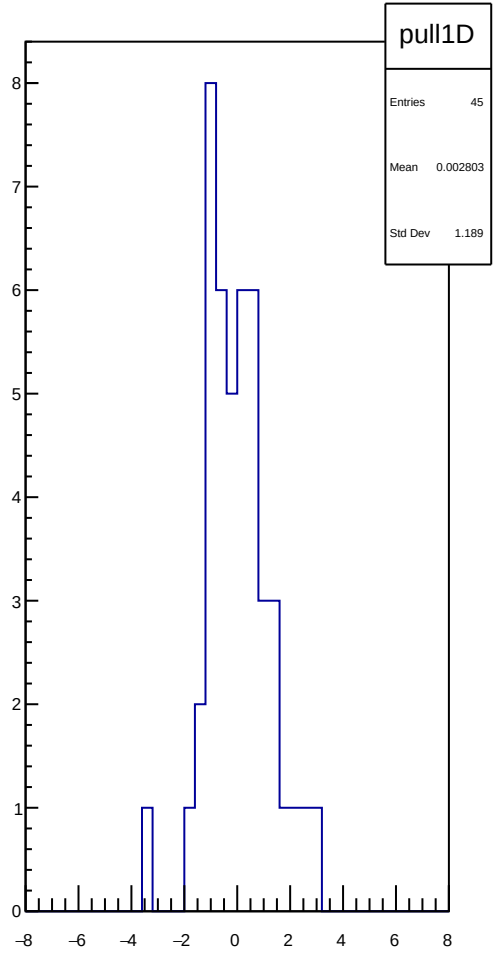

diff_bpm0l08Y_rms vs run
χ² / ndf 1217 / 44
p0 985.7 ± 1.05
1150
1100
1050
1000
950
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

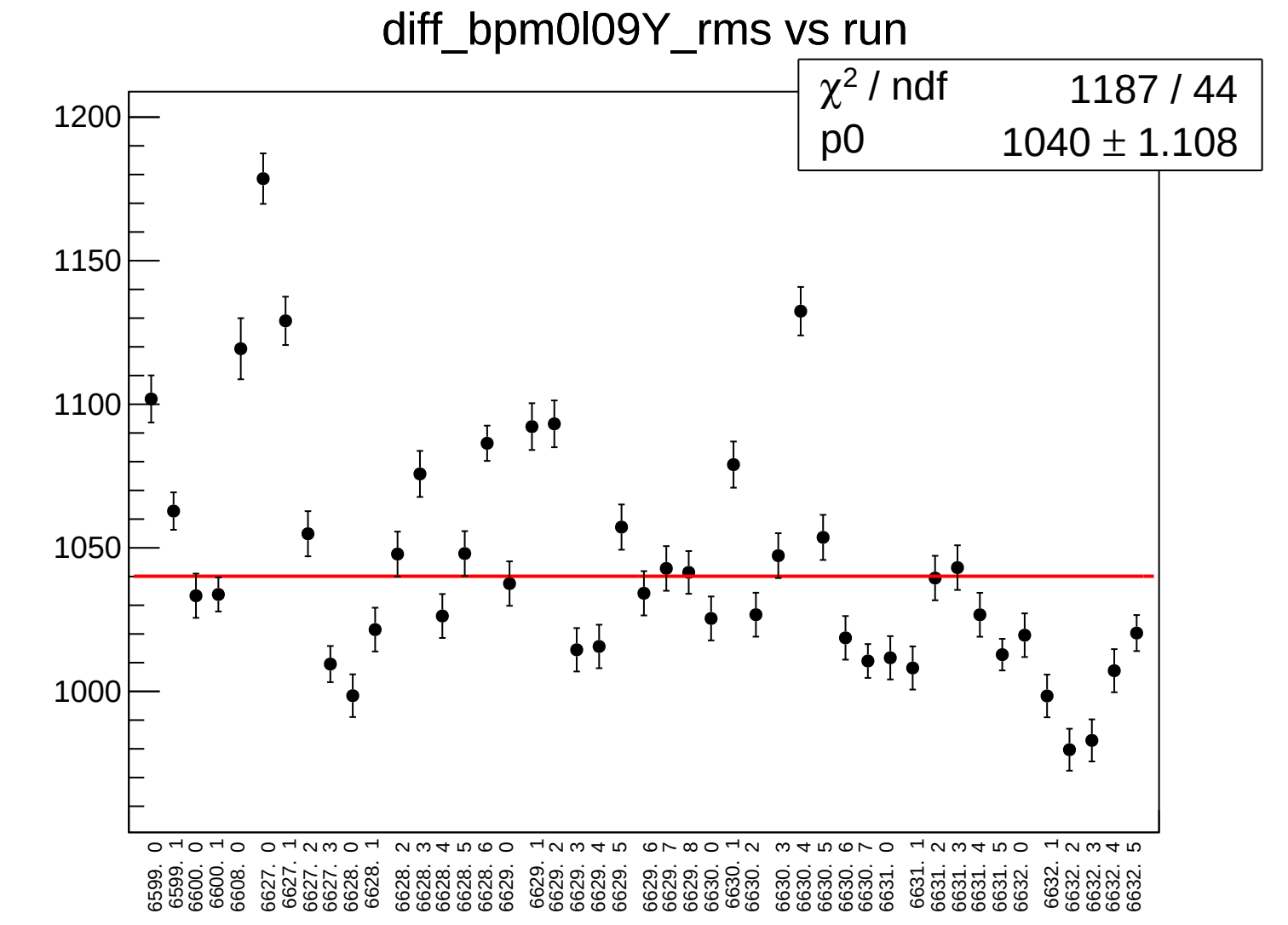

diff_bpm0l09X_mean vs run
χ² / ndf 47.73 / 44
p0 −6.344 ± 12.54
pull
Entries 45
Mean −13.1
Std Dev 0

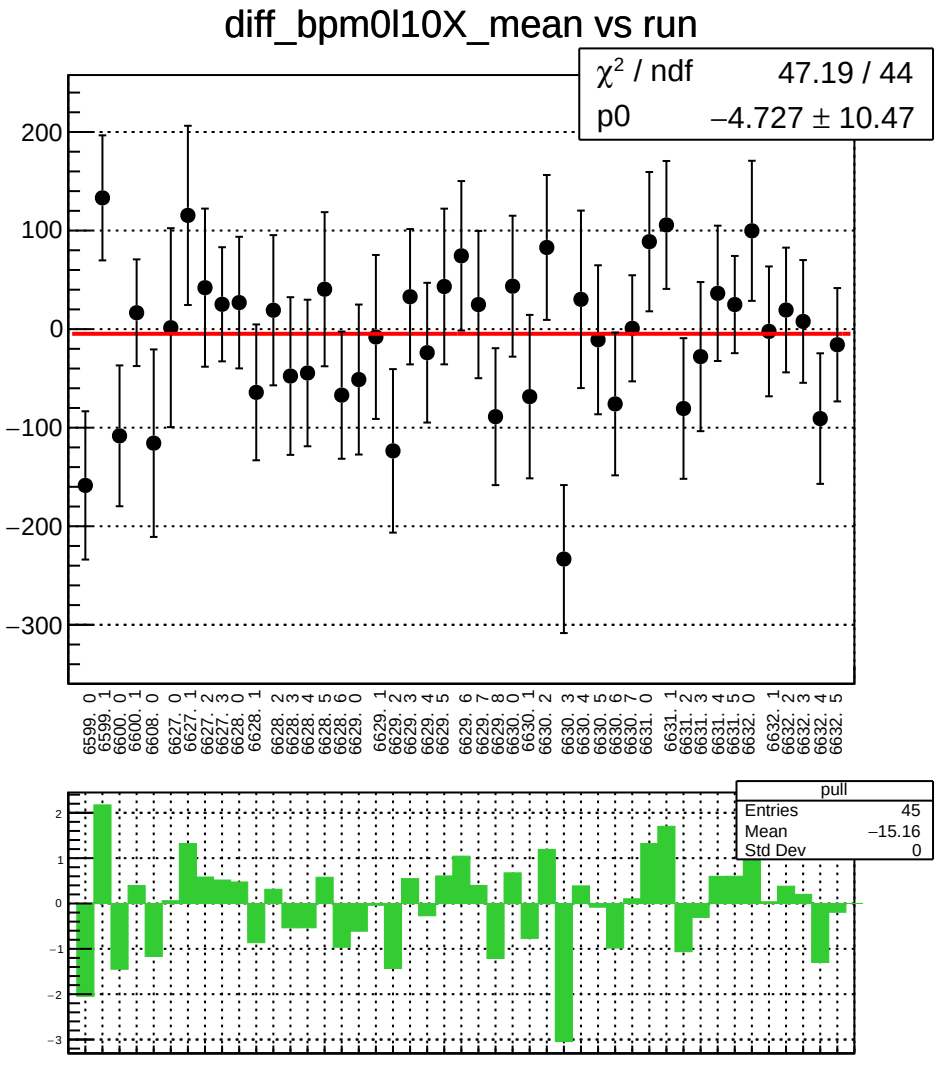

pull1D
Entries 45
Mean −0.02674
Std Dev 1.03

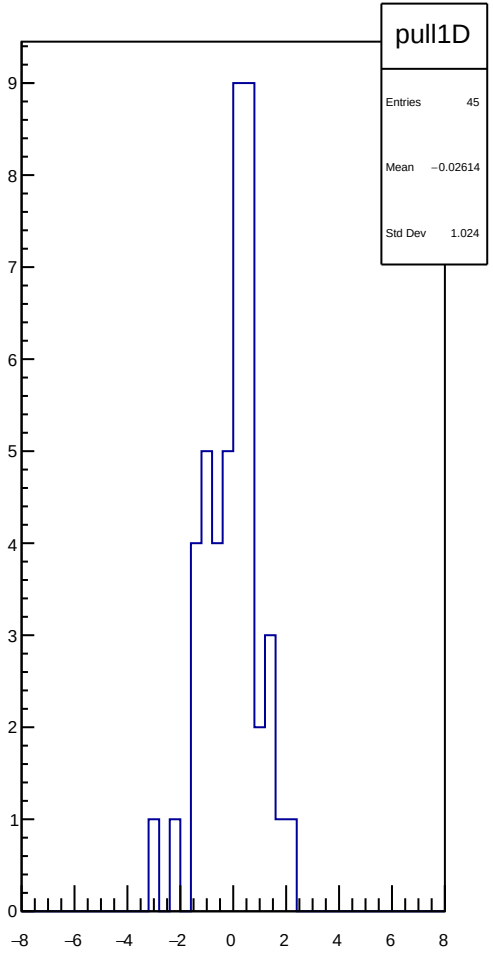

diff_bpm0l09X_rms vs run
χ² / ndf 7656 / 44
p0 8297 ± 8.871
12000
11000
10000
9000
8000
7000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

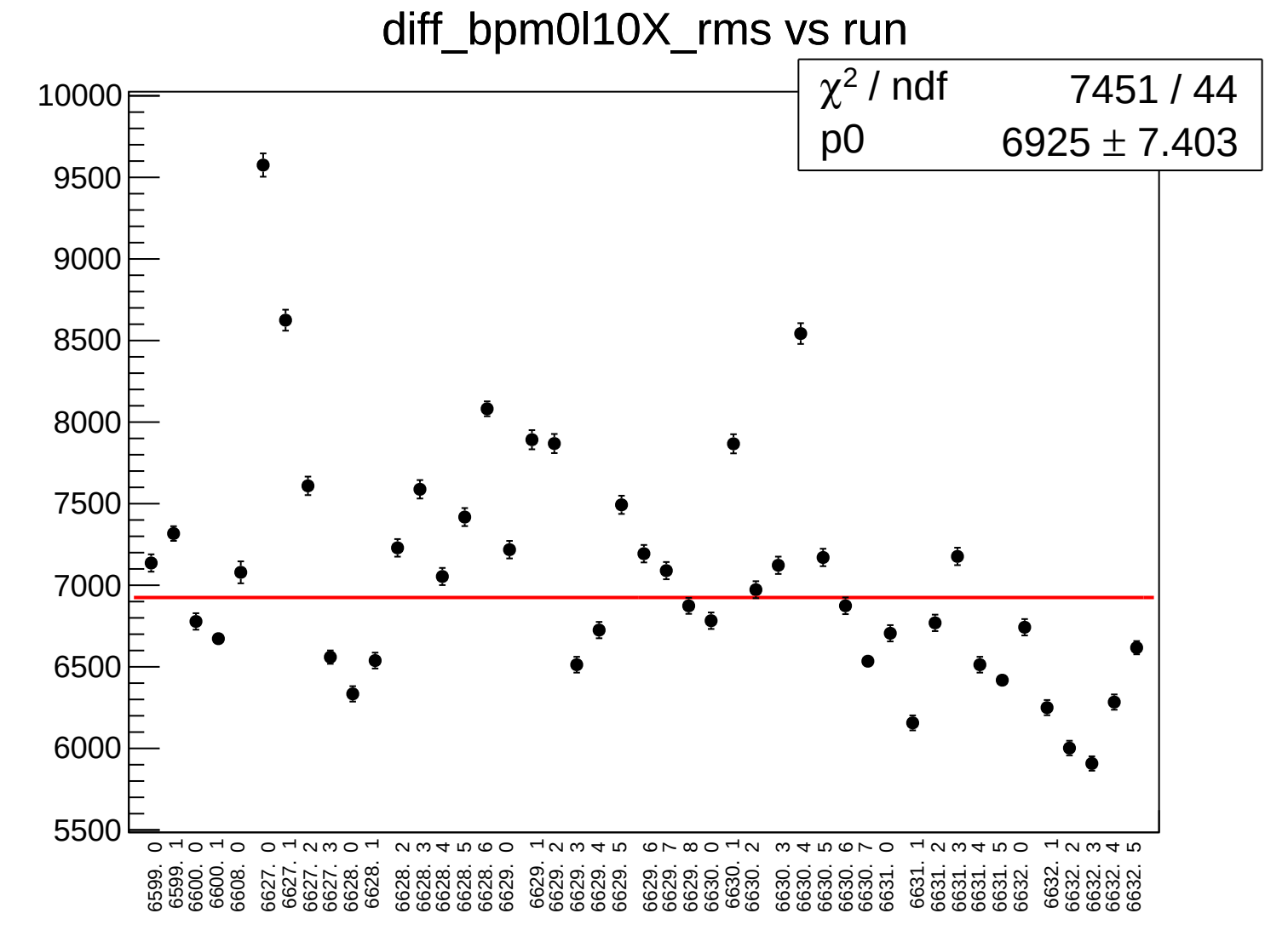

diff_bpm0l09Y_mean vs run
χ² / ndf 63.61 / 44
p0 3.343 ± 1.567
40
20
0
−20
−40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 186.1
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.002803
Std Dev 1.189
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm0l09Y_rms vs run
χ² / ndf 1187 / 44
p0 1040 ± 1.108
1200
1150
1100
1050
1000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


diff_bpm0l10X_mean vs run
χ² / ndf 47.19 / 44
p0 −4.727 ± 10.47
200
100
0
−100
−200
−300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −15.16
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.02614
Std Dev 1.024
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm0l10X_rms vs run
χ² / ndf 7451 / 44
p0 6925 ± 7.403
10000
9500
9000
8500
8000
7500
7000
6500
6000
5500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
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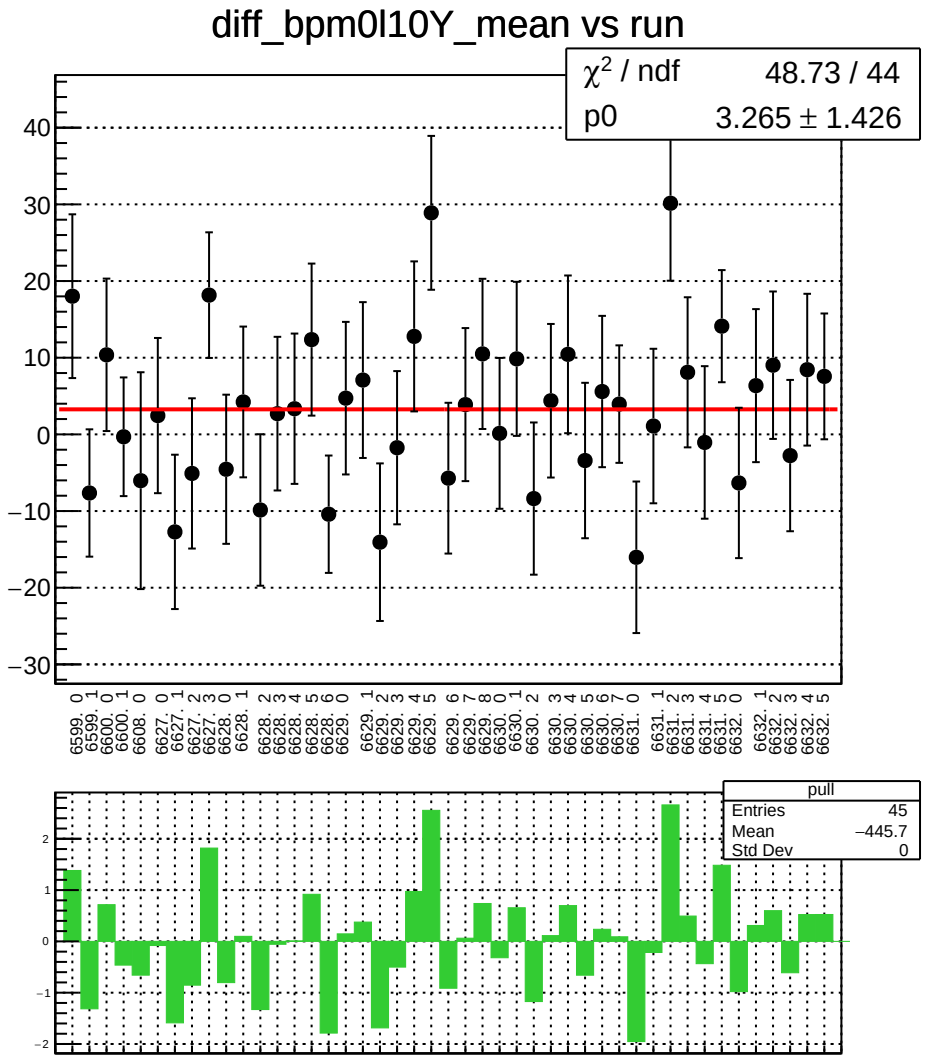
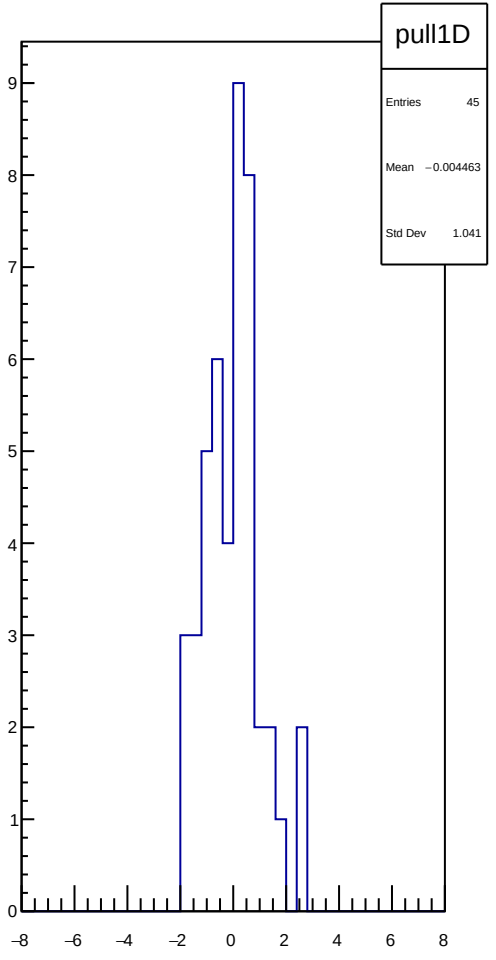
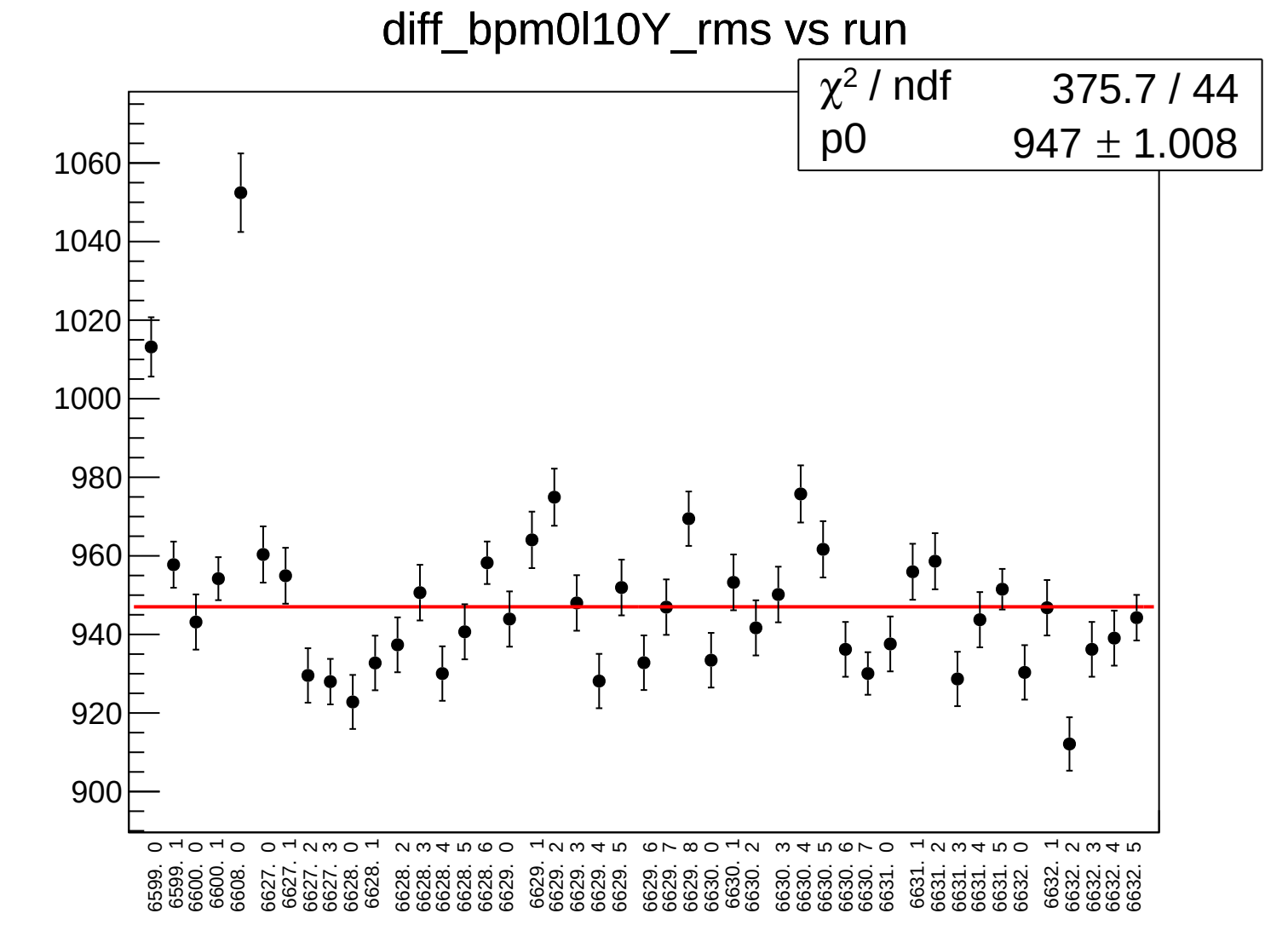
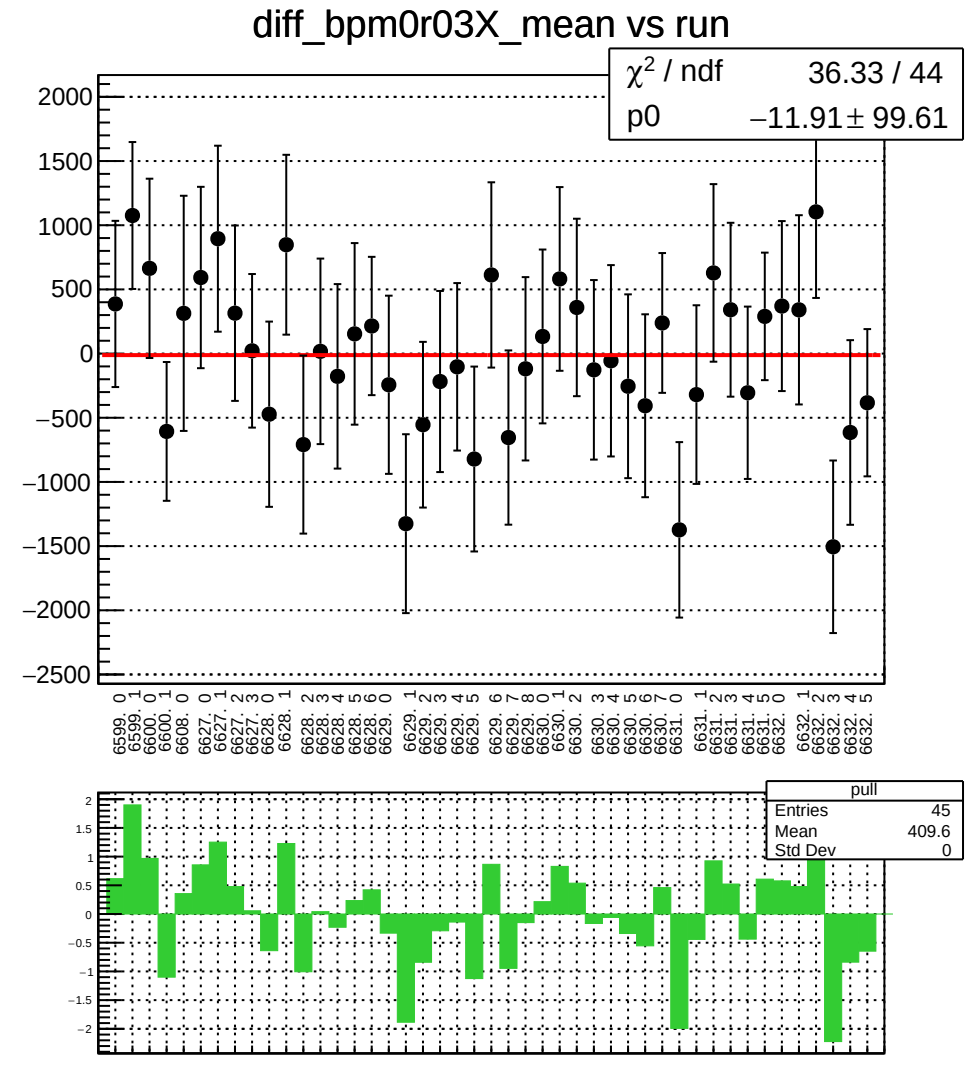
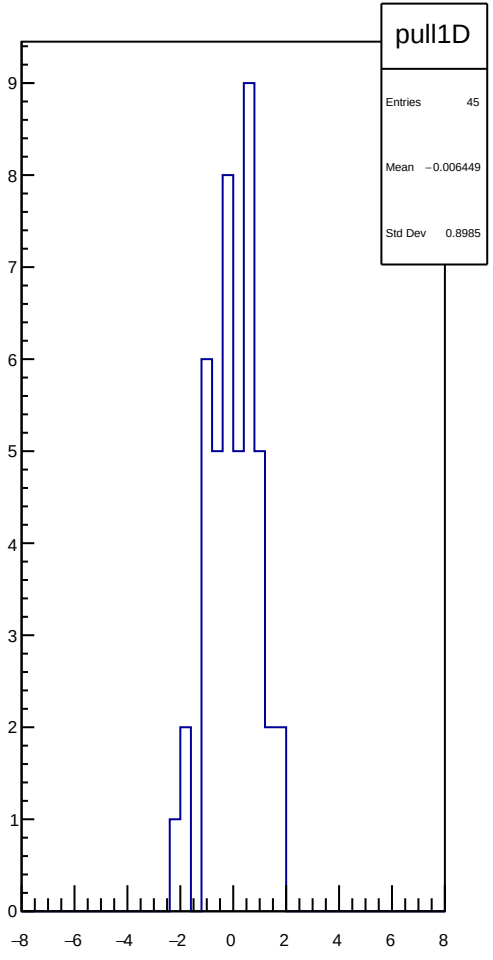
6632. 5

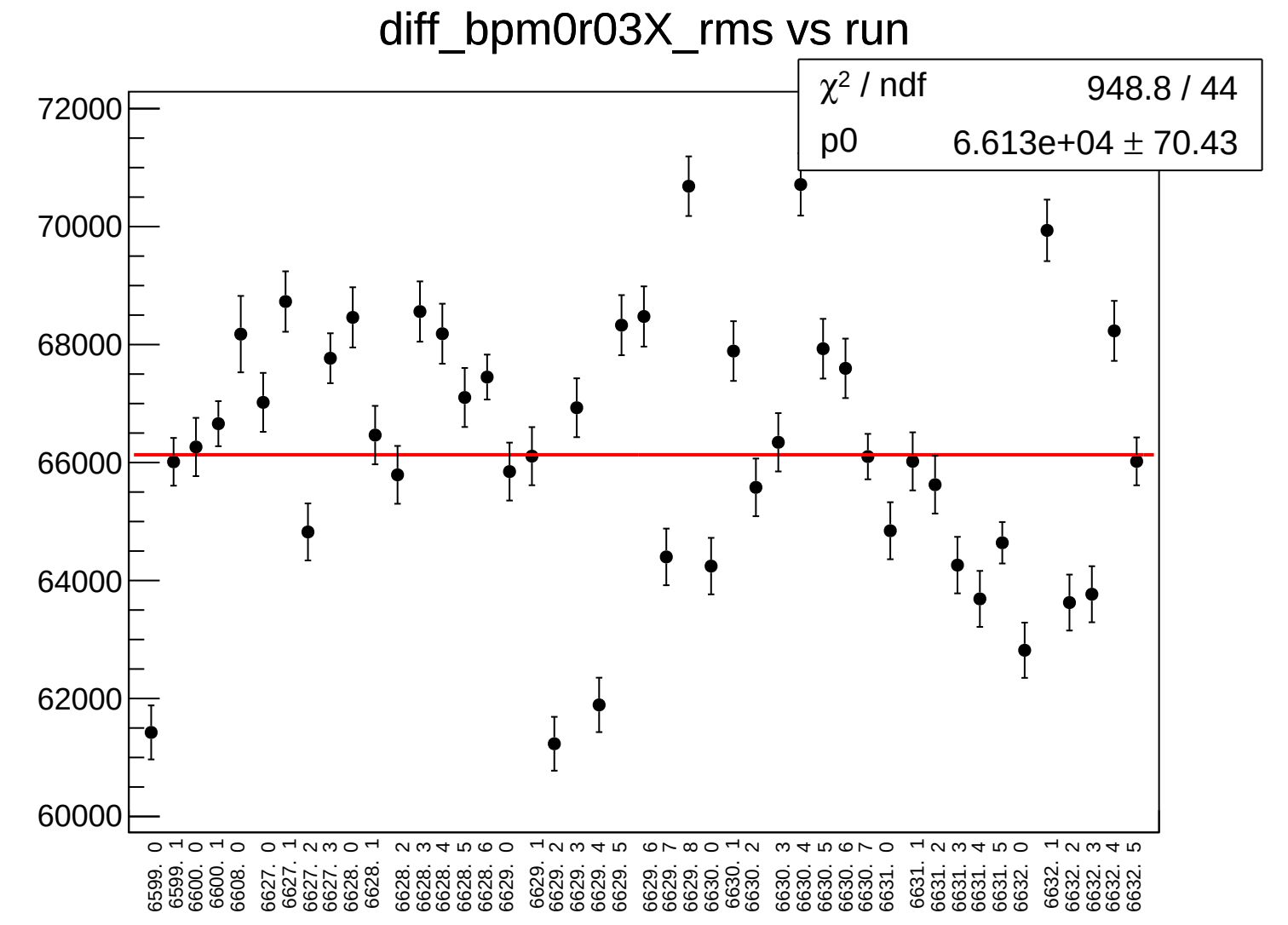

diff_bpm0l10Y_mean vs run
χ² / ndf 48.73 / 44
p0 3.265 ± 1.426
pull
Entries 45
Mean −445.7
Std Dev 0

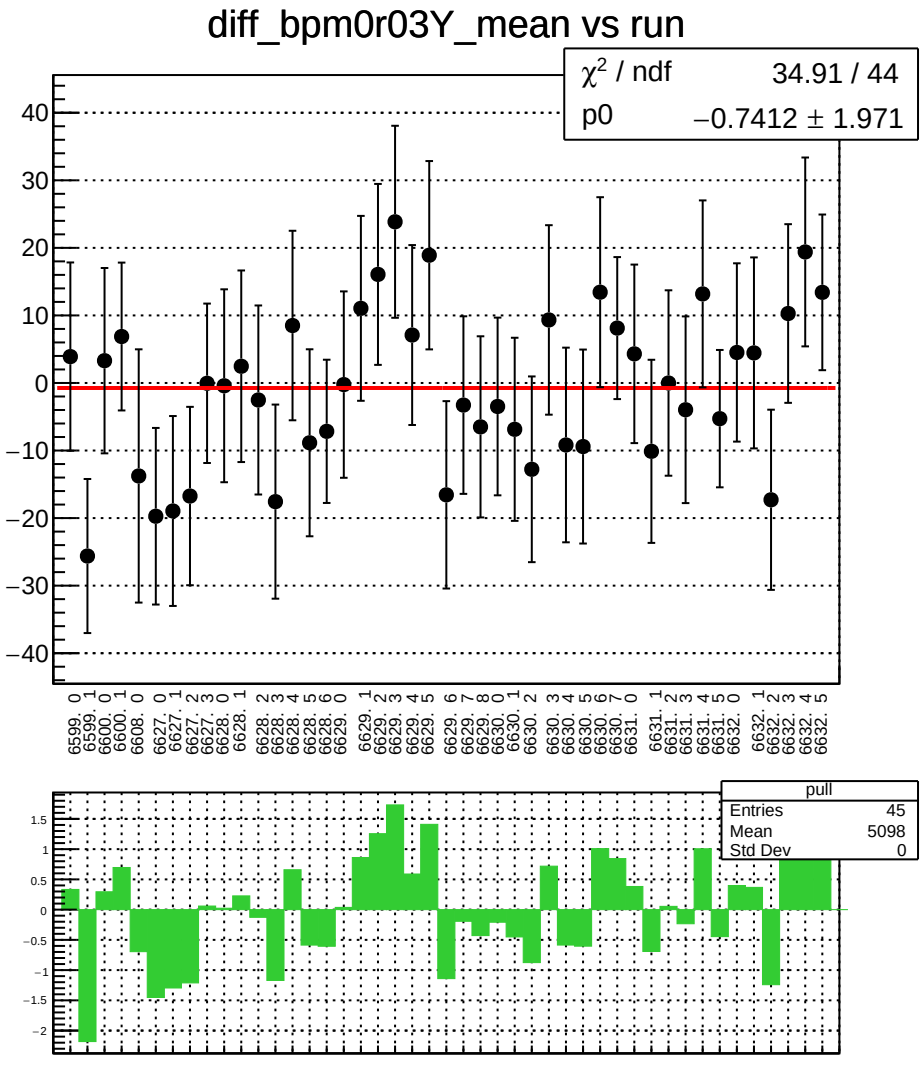

pull1D
Entries 45
Mean −0.004463
Std Dev 1.041

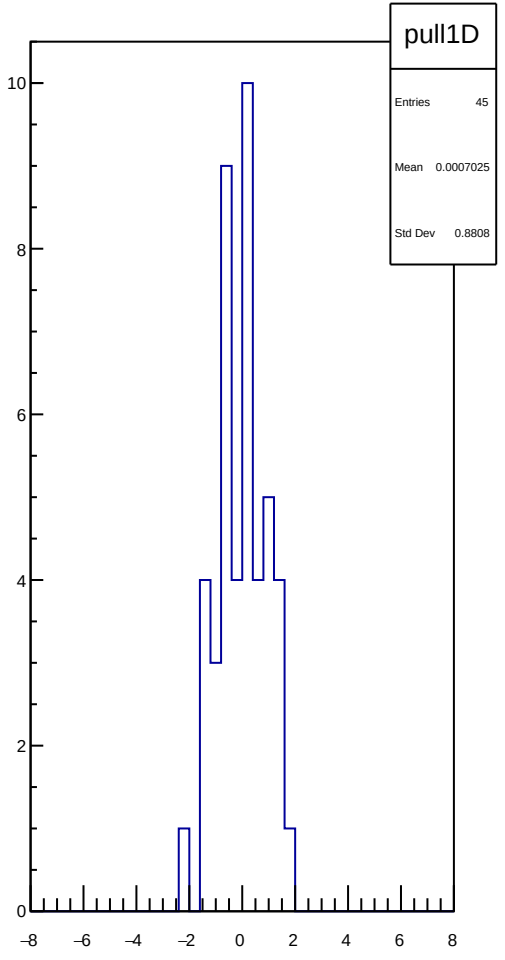

diff_bpm0l10Y_rms vs run
χ² / ndf 375.7 / 44
p0 947 ± 1.008
1060
1040
1020
1000
980
960
940
920
900
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

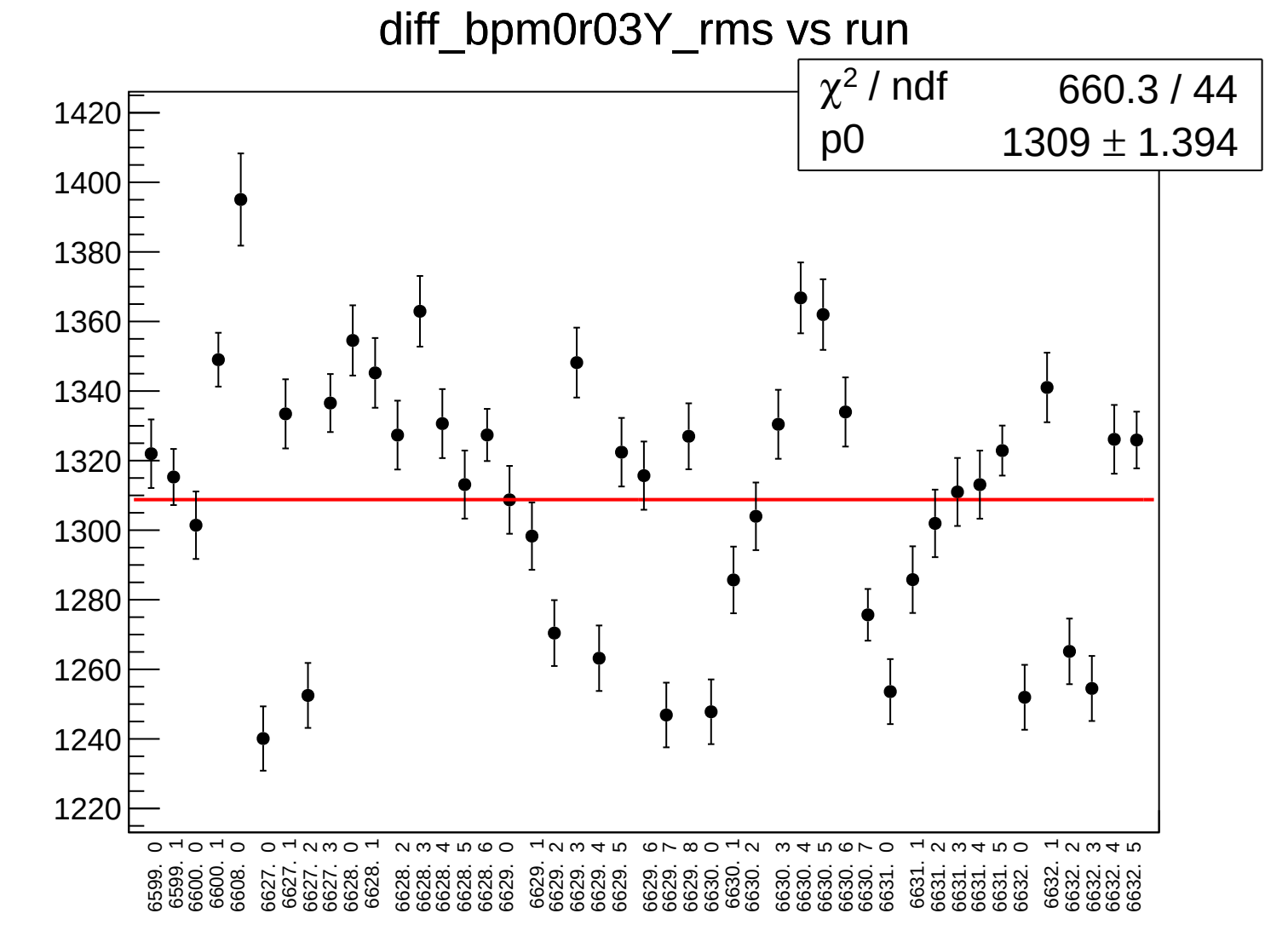

diff_bpm0r03X_mean vs run
χ² / ndf 36.33 / 44
p0 −11.91 ± 99.61
pull
Entries 45
Mean 409.6
Std Dev 0

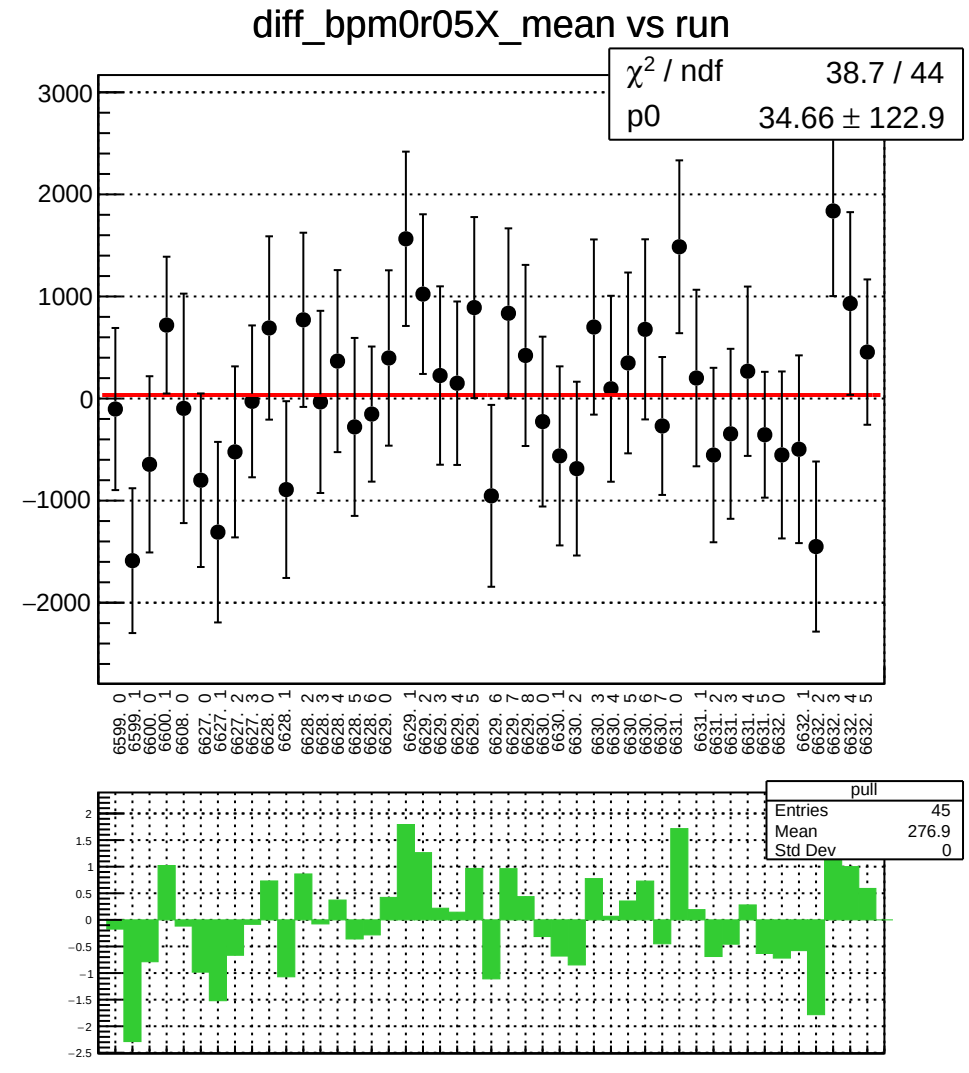

pull1D
Entries 45
Mean −0.006449
Std Dev 0.8985

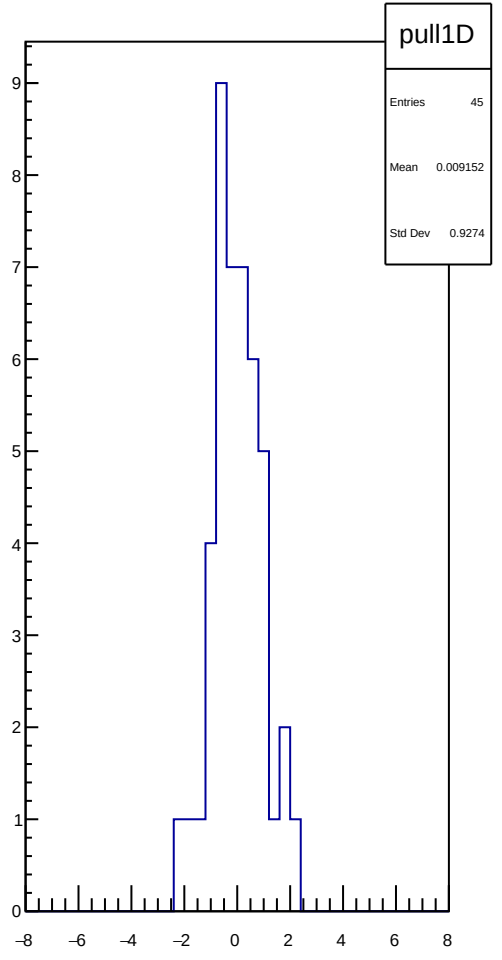

diff_bpm0r03X_rms vs run
χ² / ndf 948.8 / 44
p0 6.613e+04 ± 70.43
72000
70000
68000
66000
64000
62000
60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

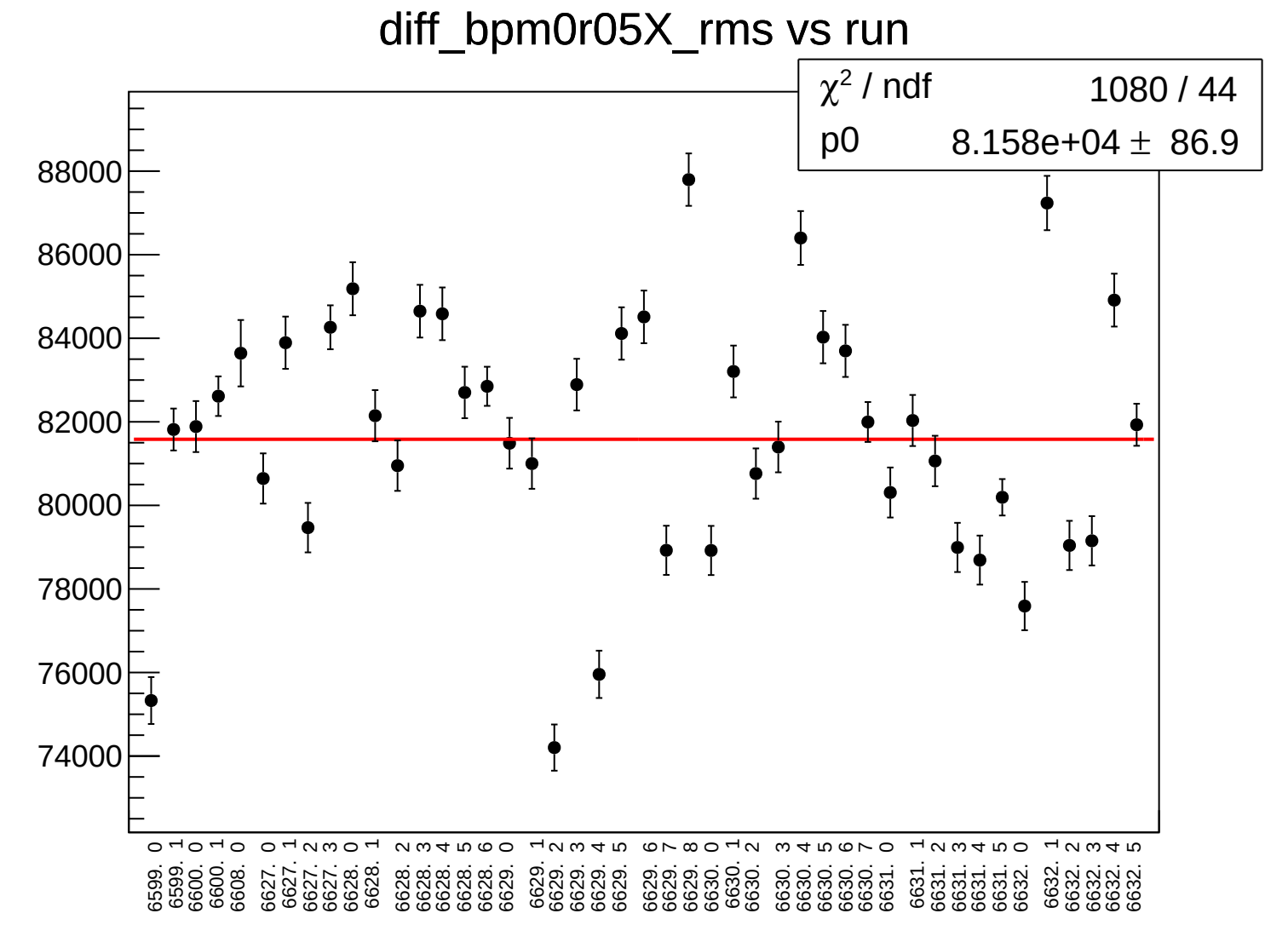

diff_bpm0r03Y_mean vs run
χ² / ndf 34.91 / 44
p0 −0.7412 ± 1.971
pull
Entries 45
Mean 5098
Std Dev 0

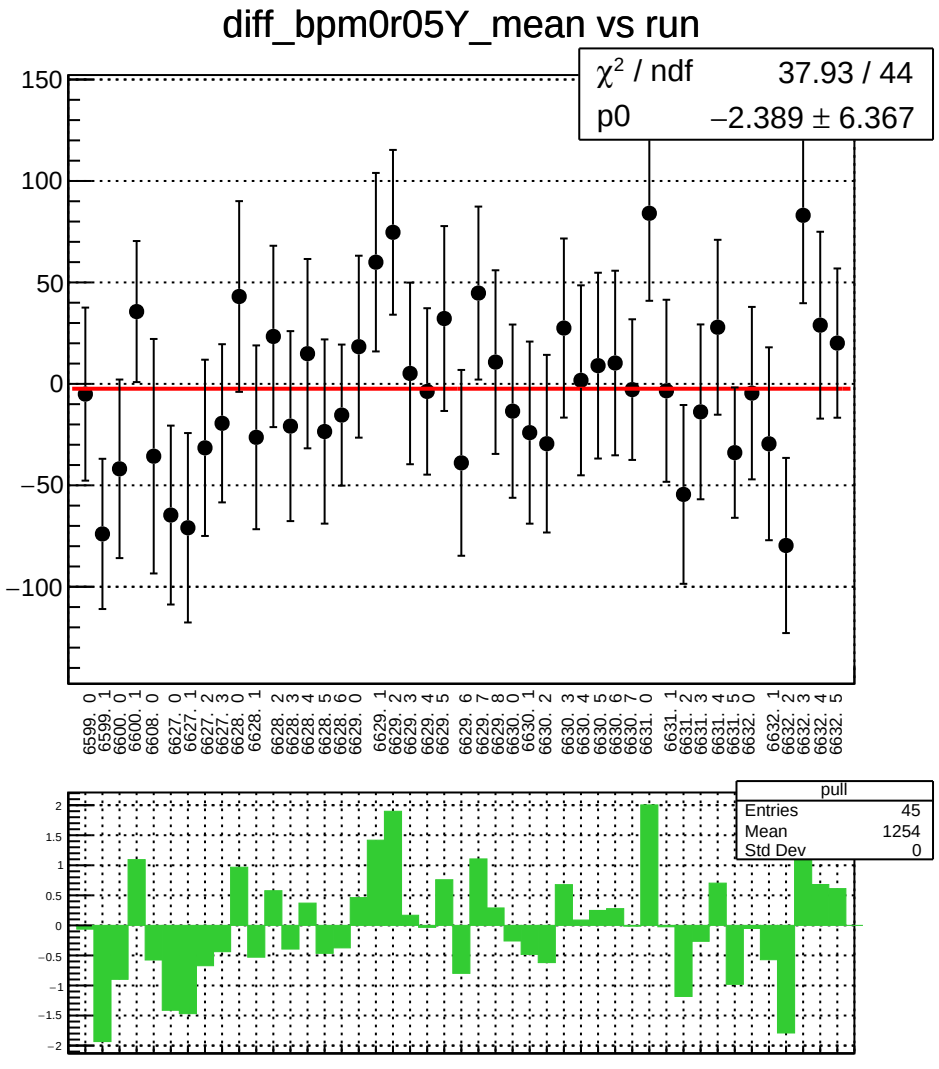

pull1D
Entries 45
Mean 0.0007025
Std Dev 0.8808

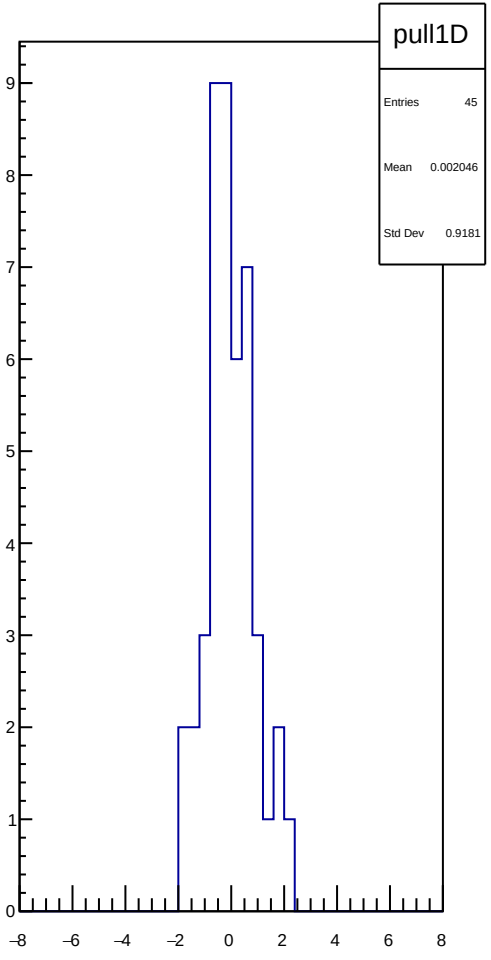

diff_bpm0r03Y_rms vs run
χ² / ndf 660.3 / 44
p0 1309 ± 1.394
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

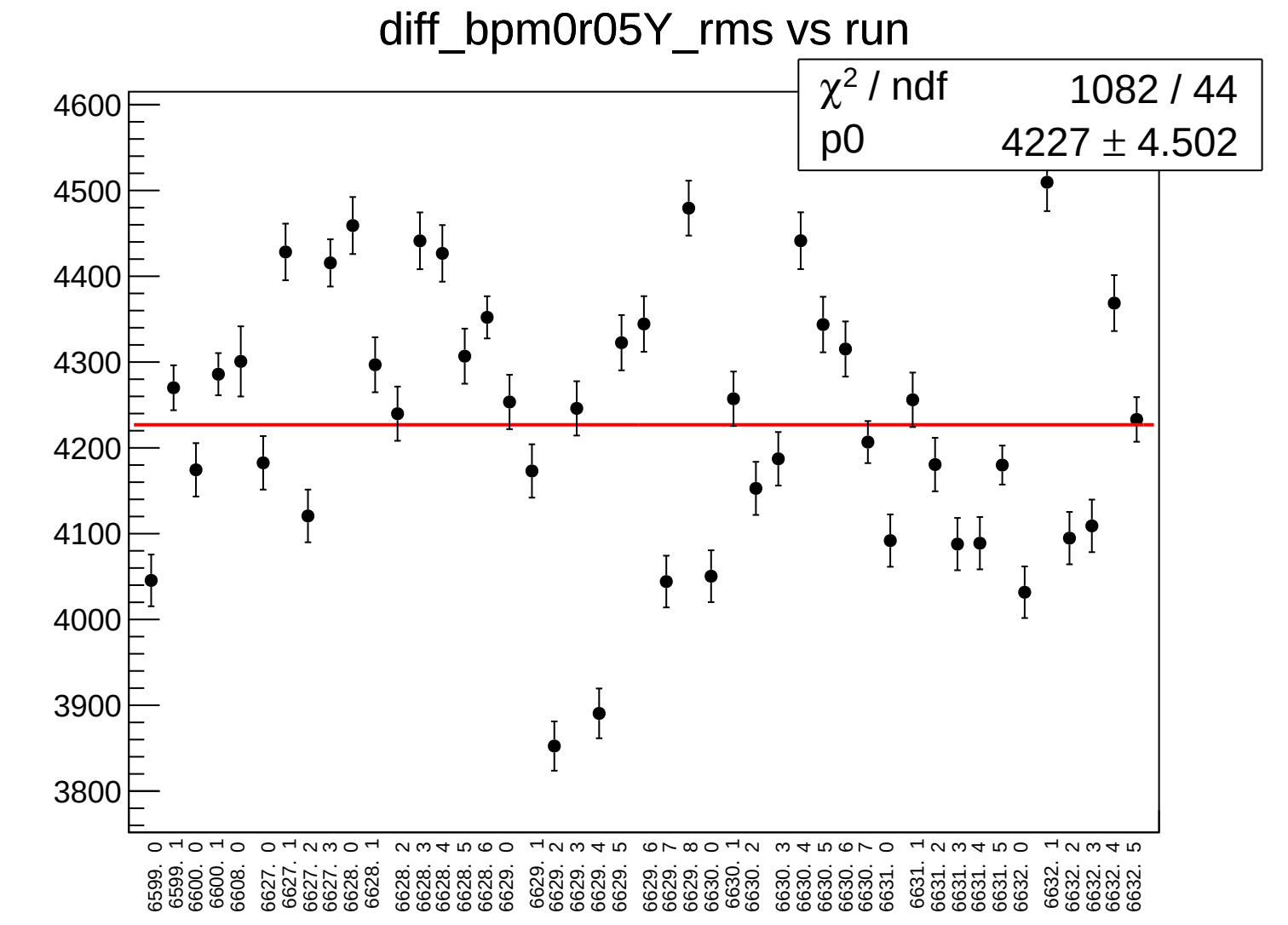

diff_bpm0r05X_mean vs run
χ² / ndf 38.7 / 44
p0 34.66 ± 122.9
3000
2000
1000
0
−1000
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 276.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

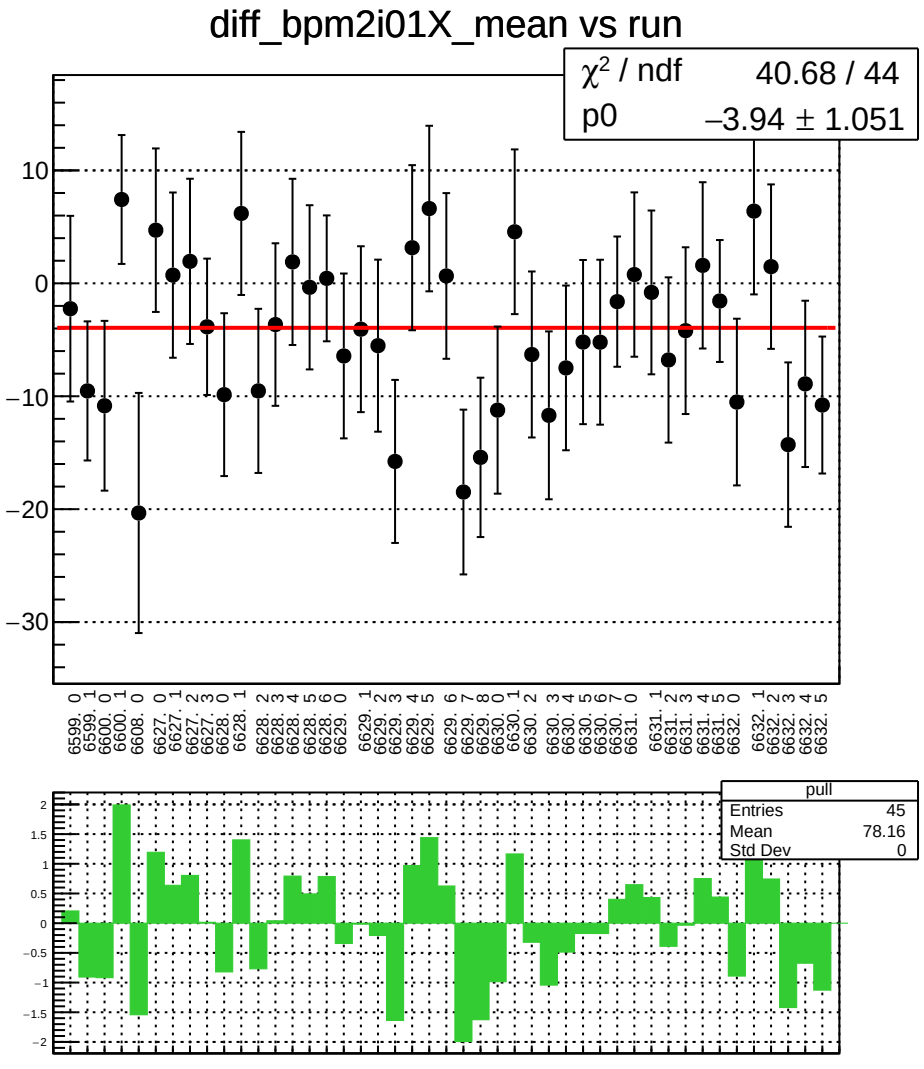

pull1D
Entries 45
Mean 0.009152
Std Dev 0.9274
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

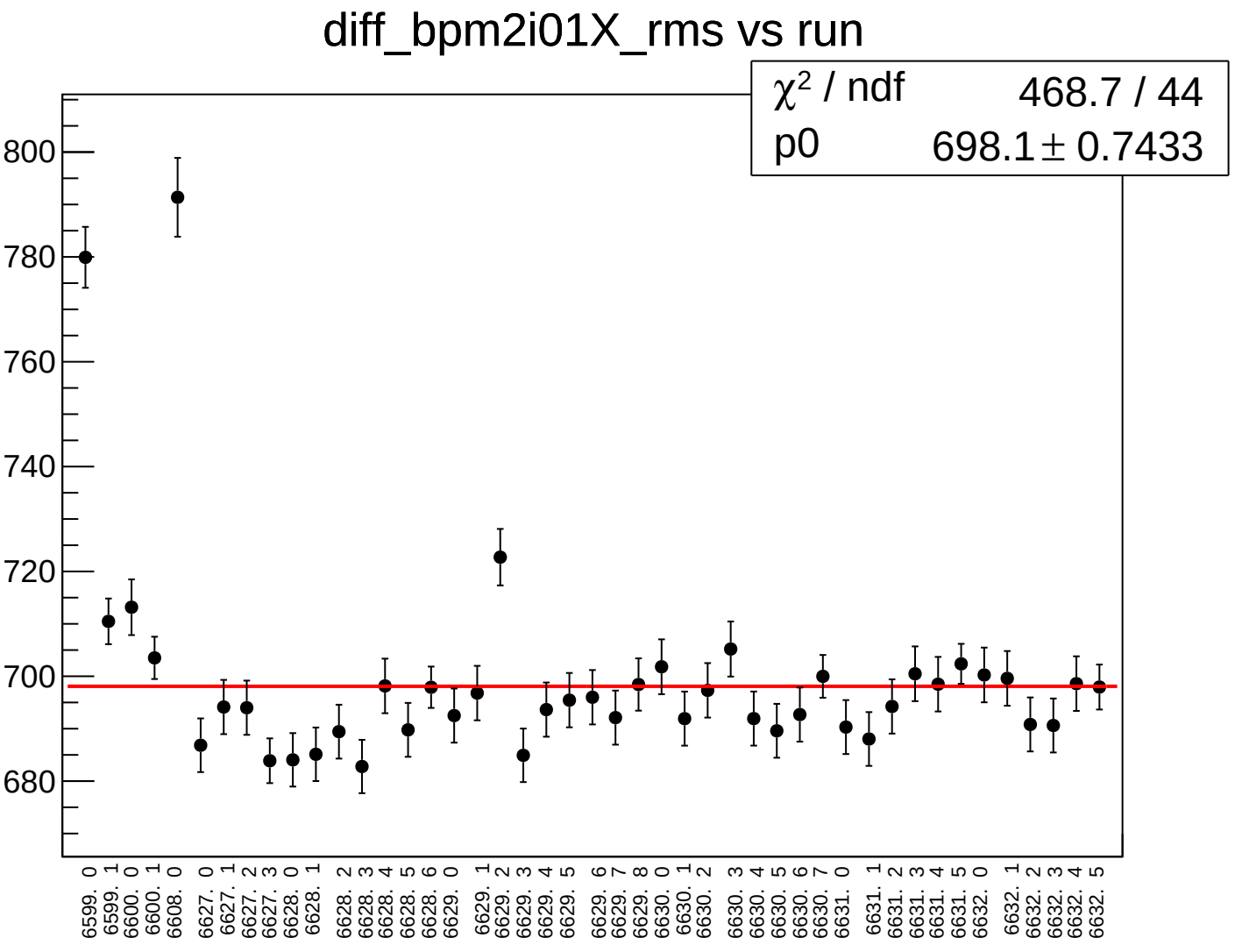

diff_bpm0r05X_rms vs run
χ² / ndf 1080 / 44
p0 8.158e+04 ± 86.9
88000
86000
84000
82000
80000
78000
76000
74000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

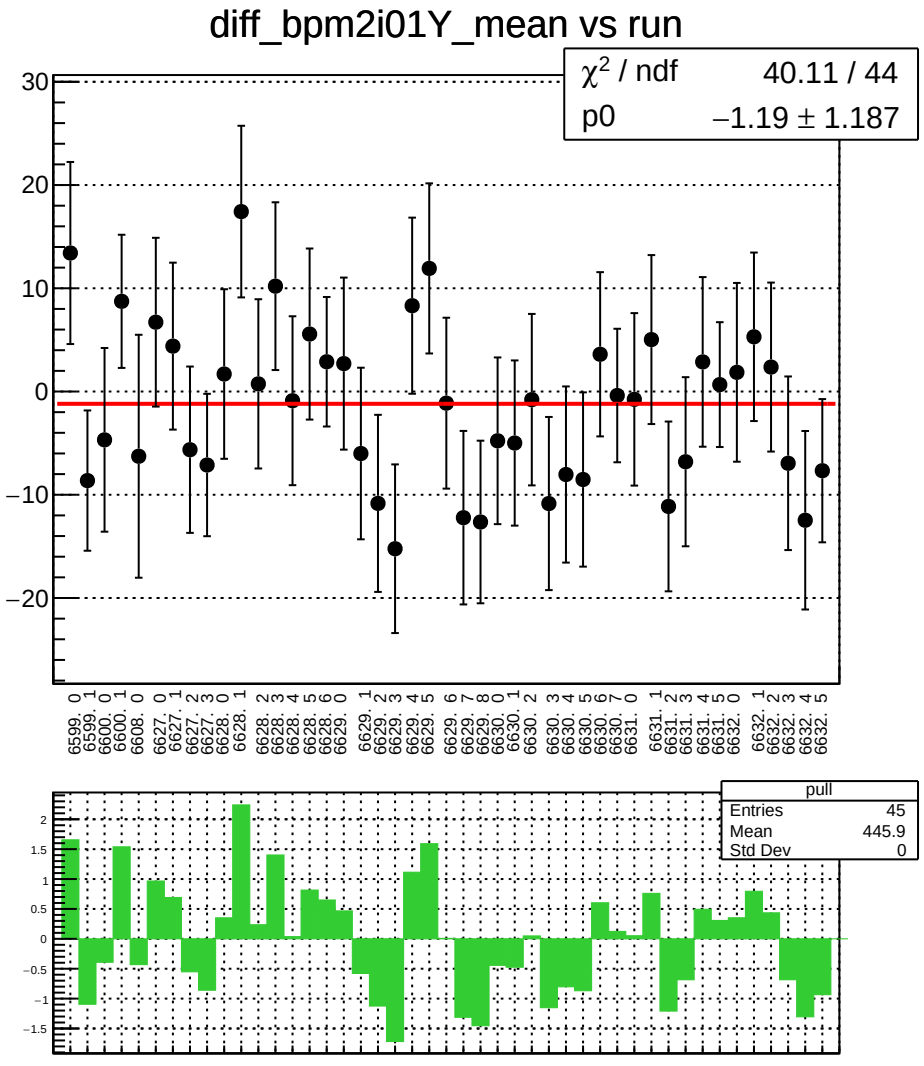

diff_bpm0r05Y_mean vs run
χ² / ndf 37.93 / 44
p0 −2.389 ± 6.367
150
100
50
0
−50
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 1254
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

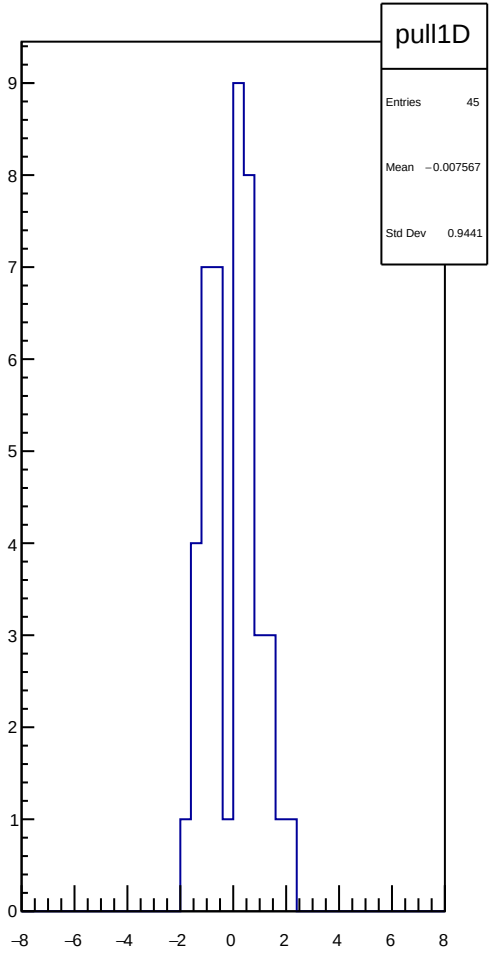

pull1D
Entries 45
Mean 0.002046
Std Dev 0.9181
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

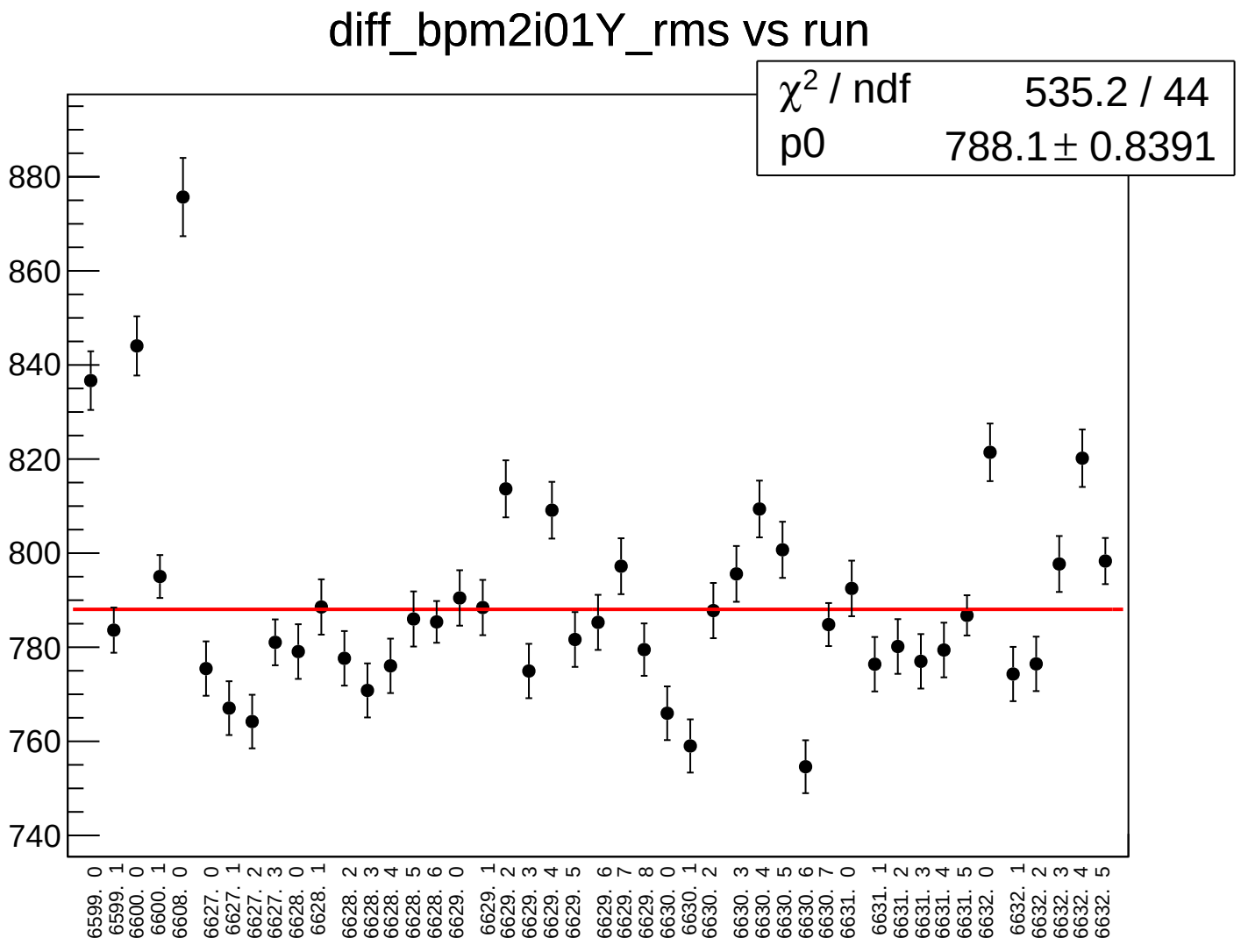

diff_bpm0r05Y_rms vs run
χ² / ndf 1082 / 44
p0 4227 ± 4.502
4600
4500
4400
4300
4200
4100
4000
3900
3800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

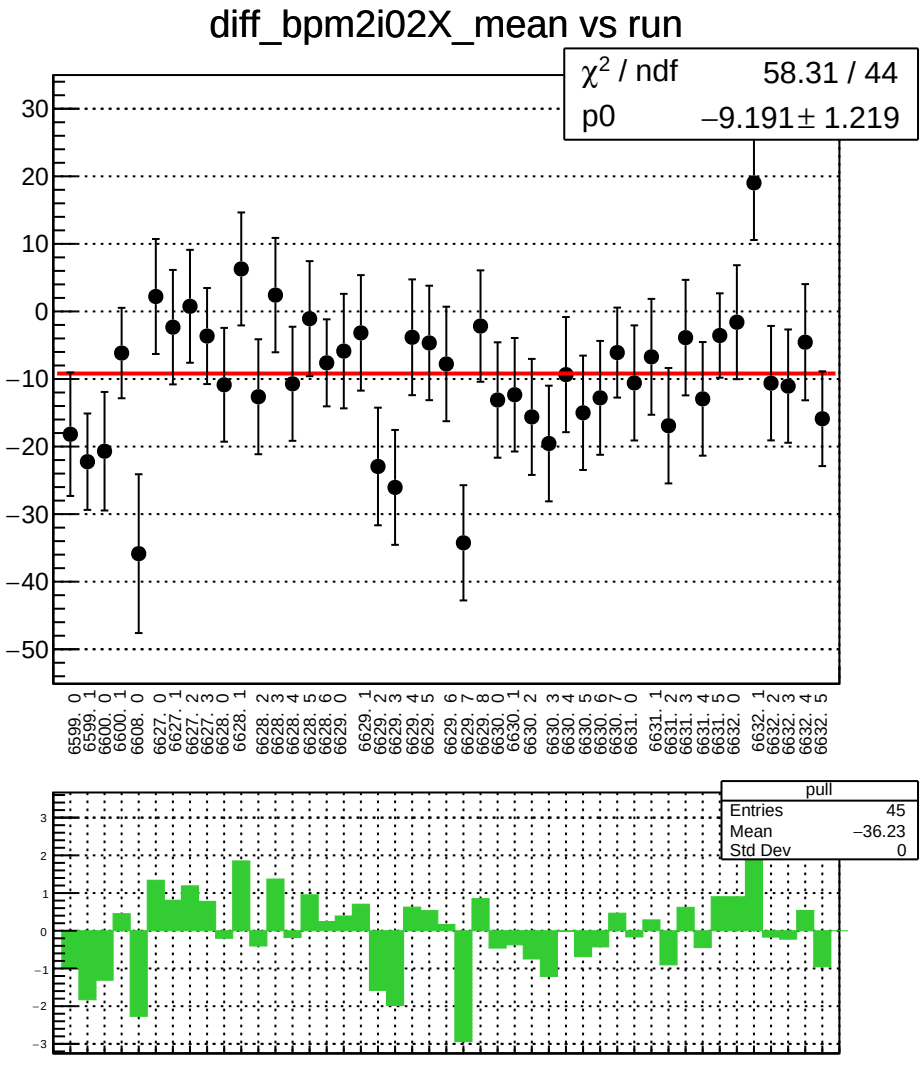

diff_bpm2i01X_mean vs run
χ² / ndf 40.68 / 44
p0 −3.94 ± 1.051
10
0
−10
−20
−30
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 78.16
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.02475
Std Dev 0.9505
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

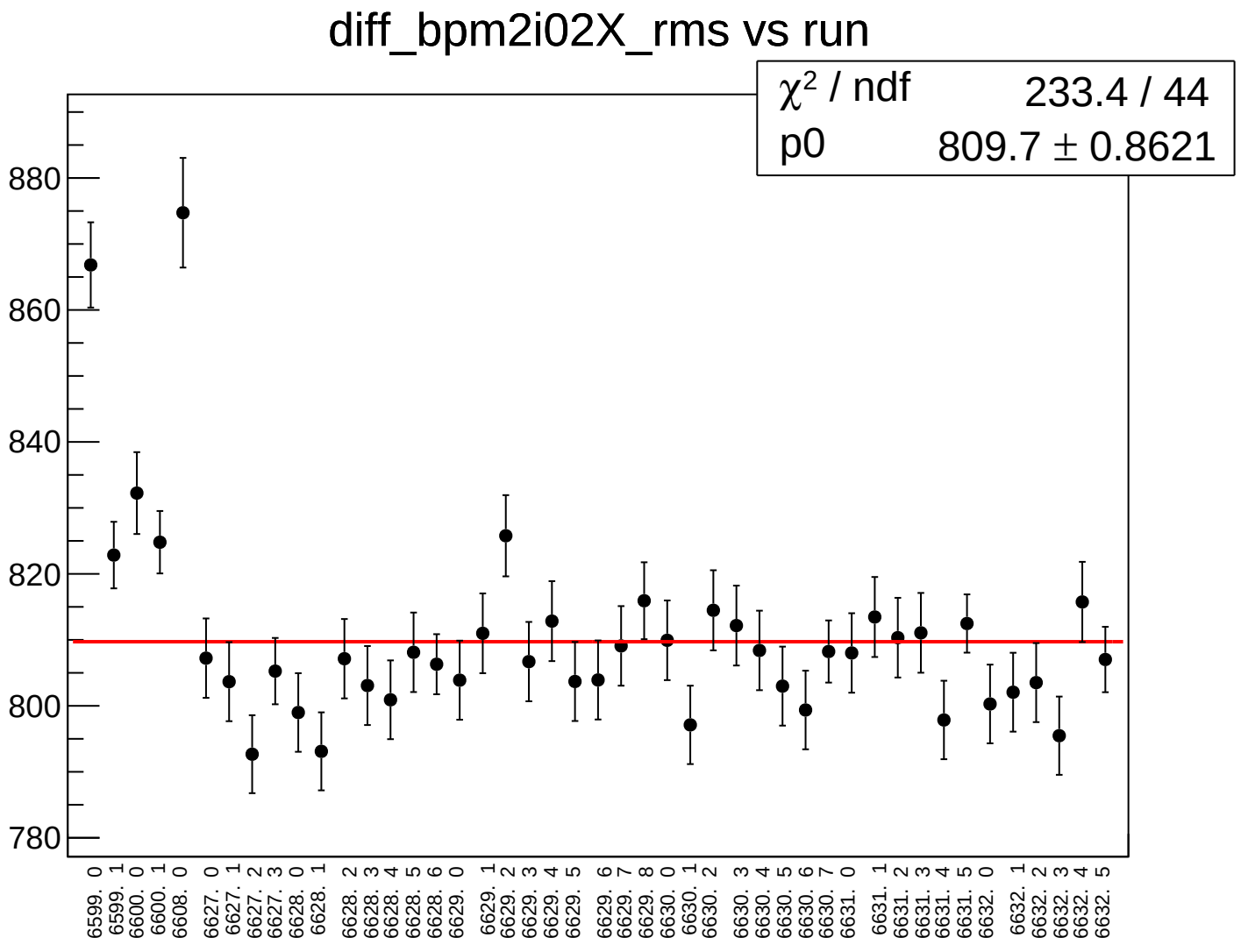

diff_bpm2i01X_rms vs run
χ² / ndf 468.7 / 44
p0 698.1 ± 0.7433
800
780
760
740
720
700
680
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

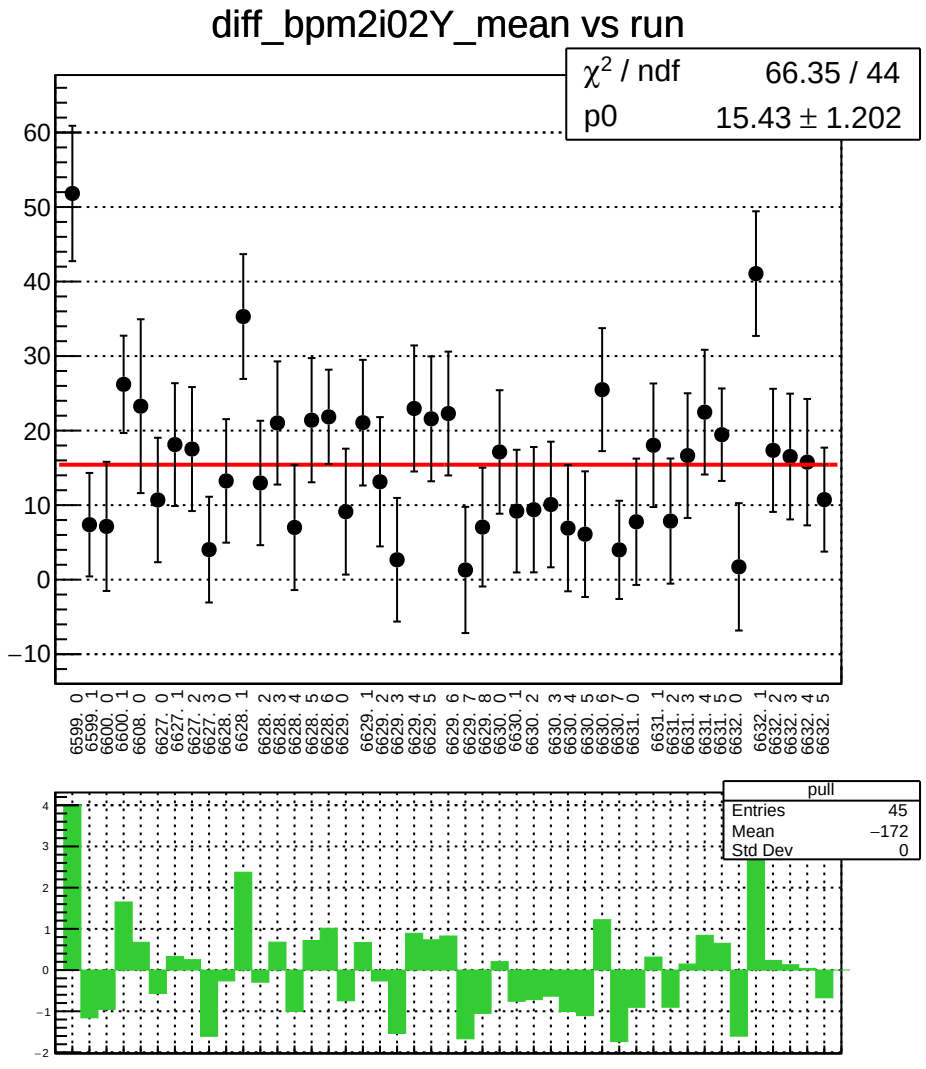

diff_bpm2i01Y_mean vs run
χ² / ndf 40.11 / 44
p0 −1.19 ± 1.187
30
20
10
0
−10
−20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 445.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

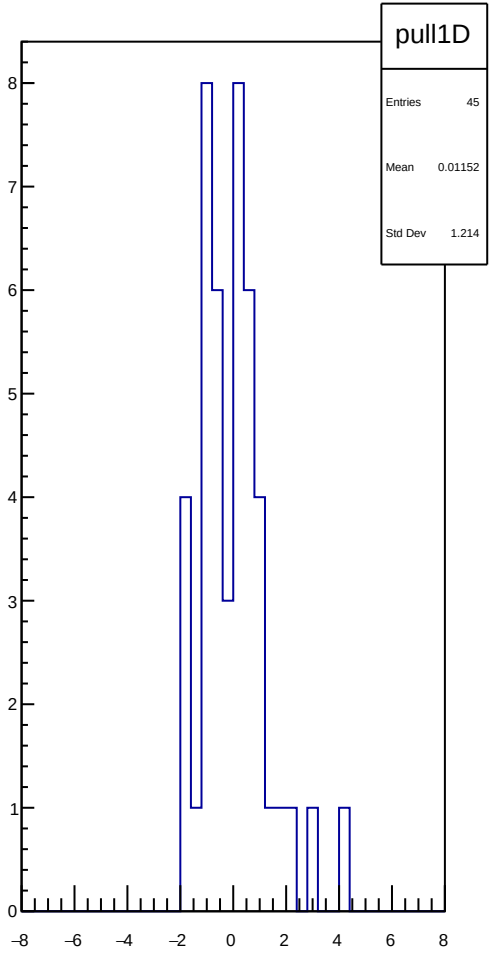

pull1D
Entries 45
Mean −0.007567
Std Dev 0.9441
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

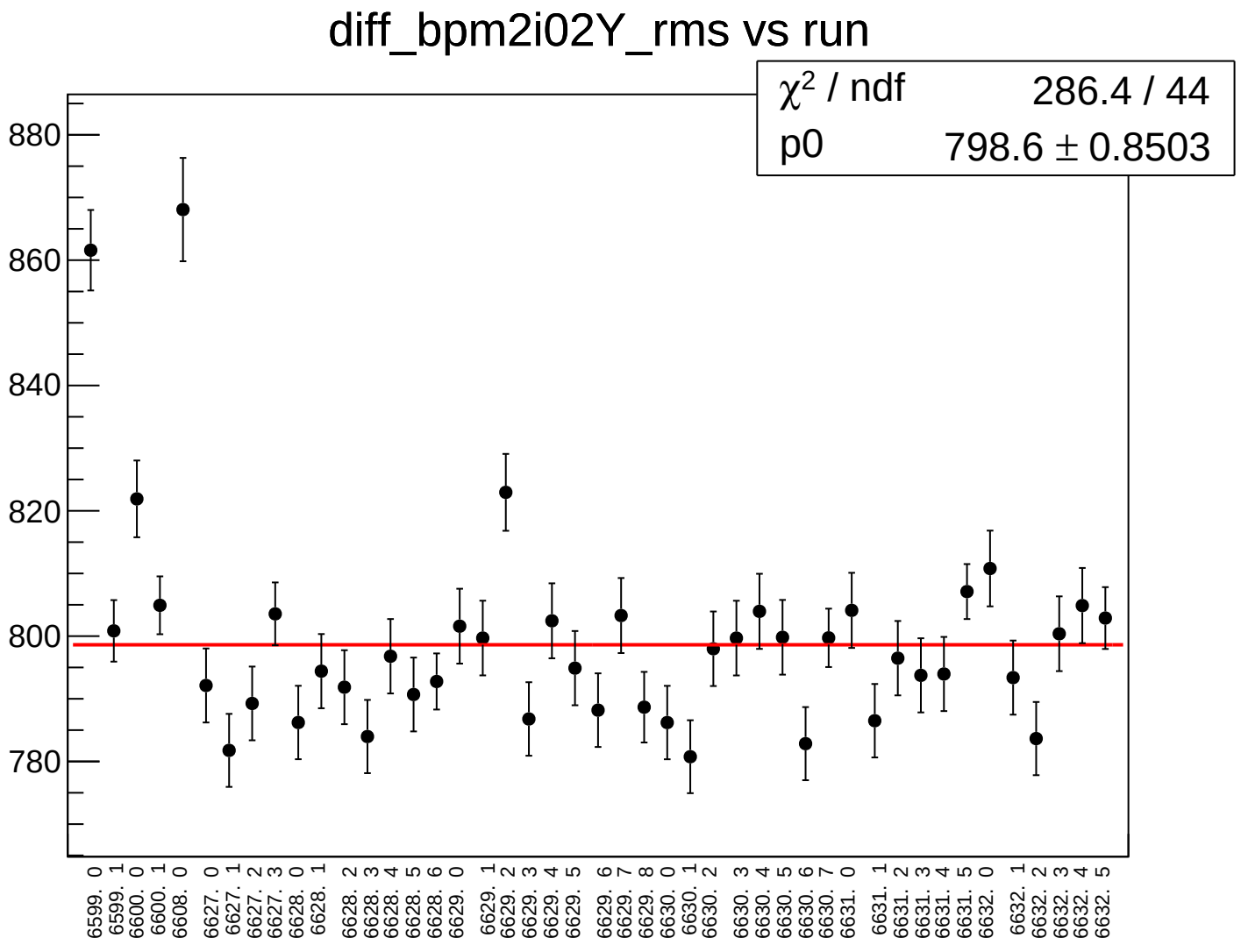

diff_bpm2i01Y_rms vs run
χ² / ndf 535.2 / 44
p0 788.1 ± 0.8391
880
860
840
820
800
780
760
740
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

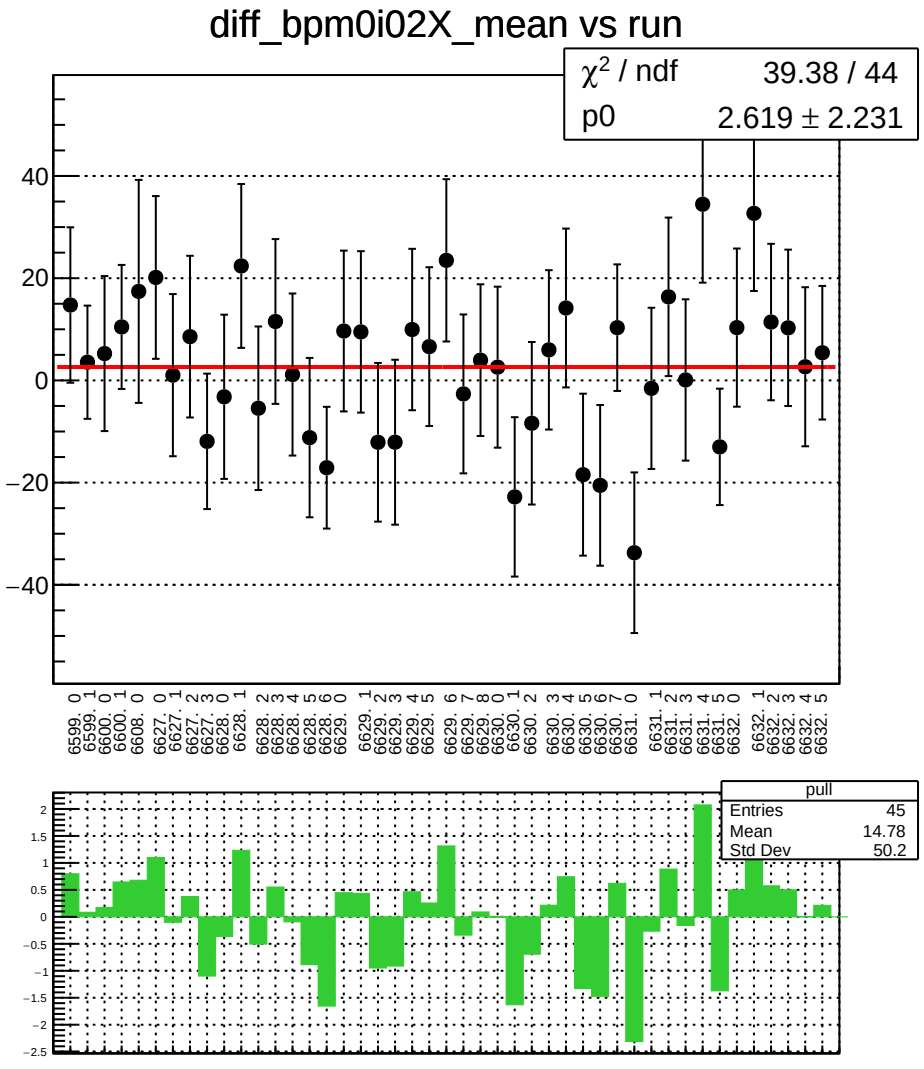

diff_bpm2i02X_mean vs run
χ² / ndf 58.31 / 44
p0 −9.191± 1.219
pull
Entries 45
Mean −36.23
Std Dev 0
pull1D
Entries 45
Mean −0.02514
Std Dev 1.138

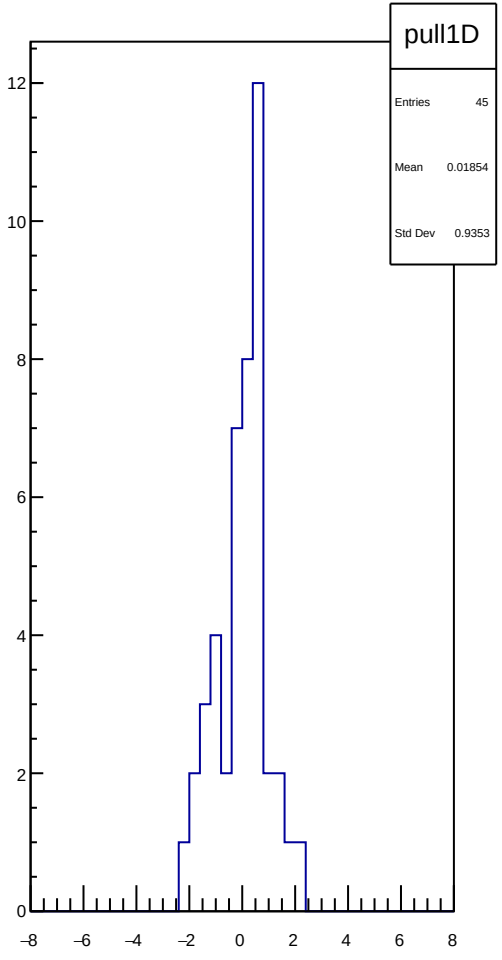

diff_bpm2i02X_rms vs run
χ² / ndf 233.4 / 44
p0 809.7 ± 0.8621
880
860
840
820
800
780
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

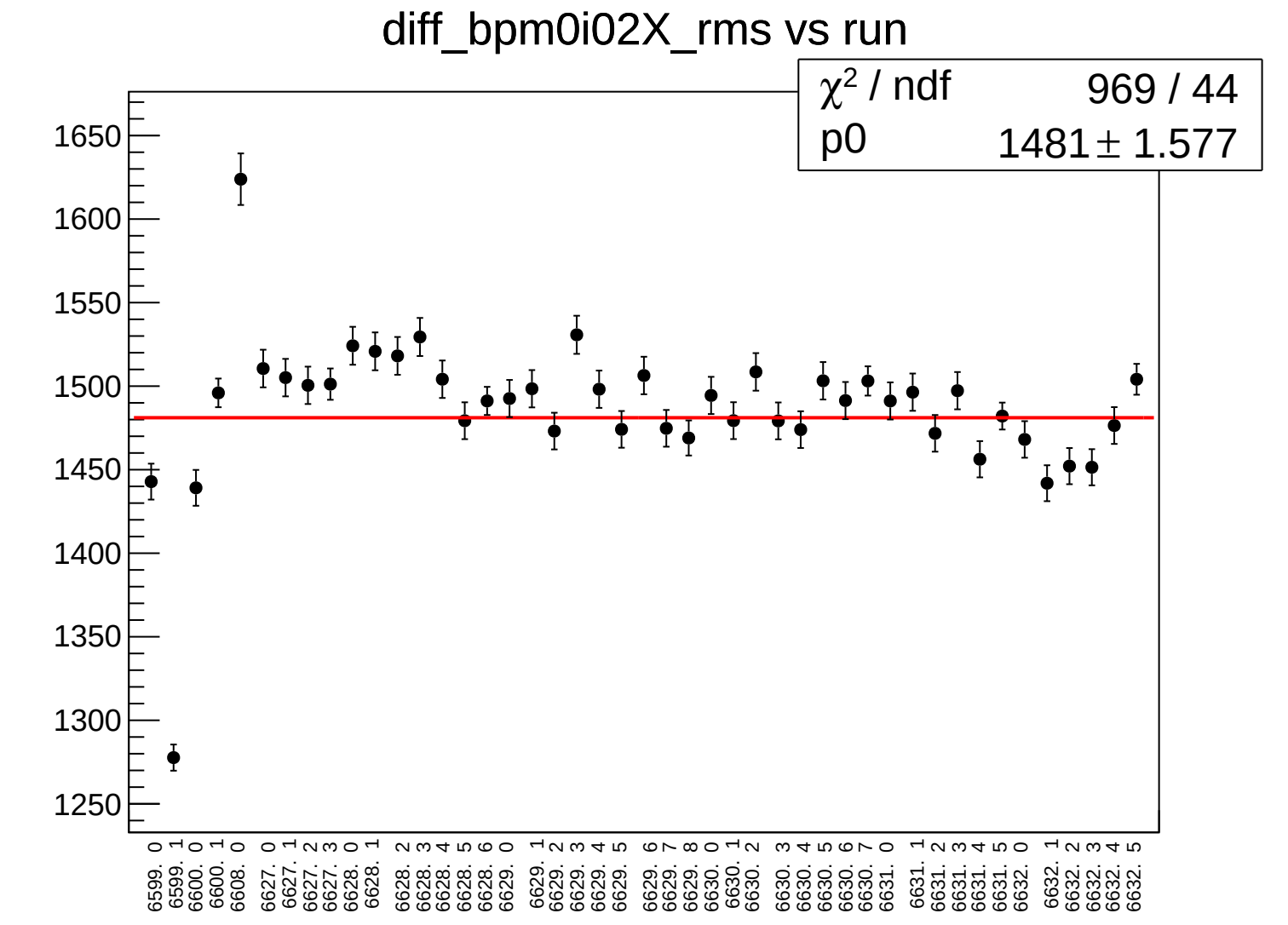

diff_bpm2i02Y_mean vs run
χ² / ndf 66.35 / 44
p0 15.43 ± 1.202
pull
Entries 45
Mean −172
Std Dev 0

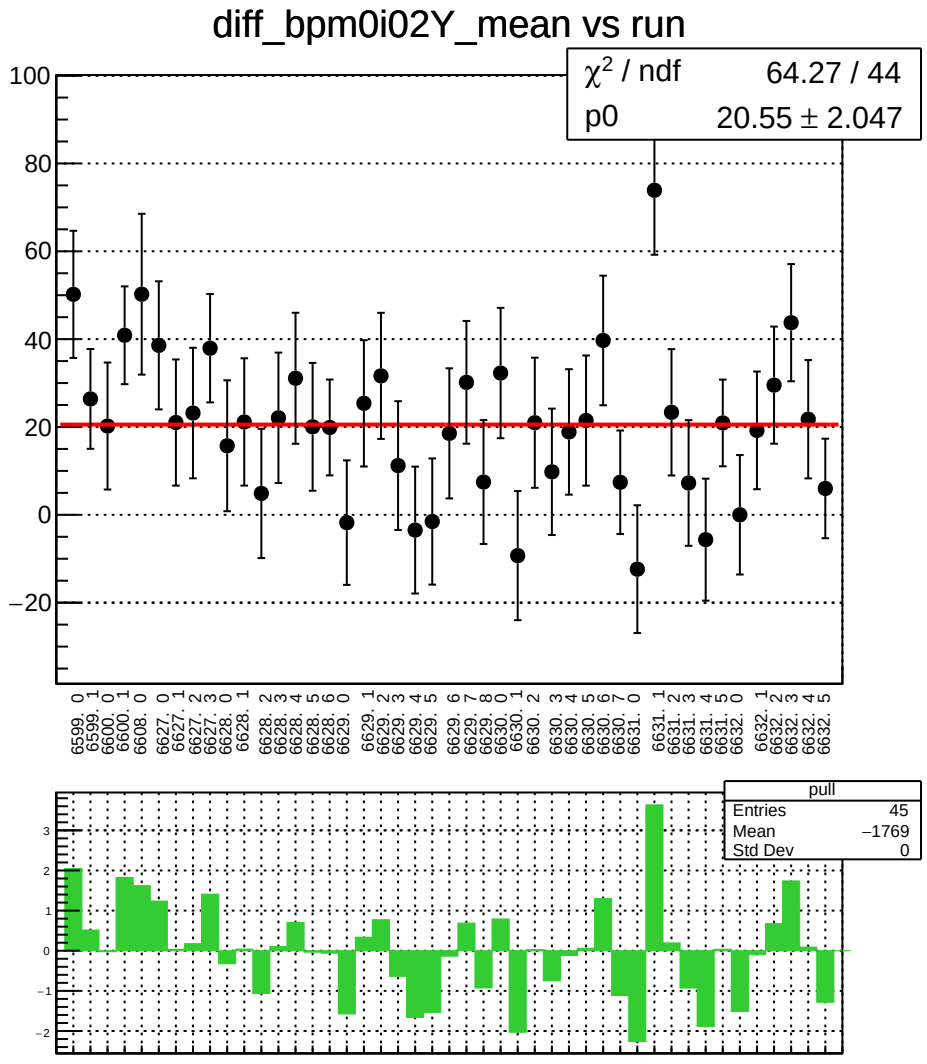

pull1D
Entries 45
Mean 0.01152
Std Dev 1.214

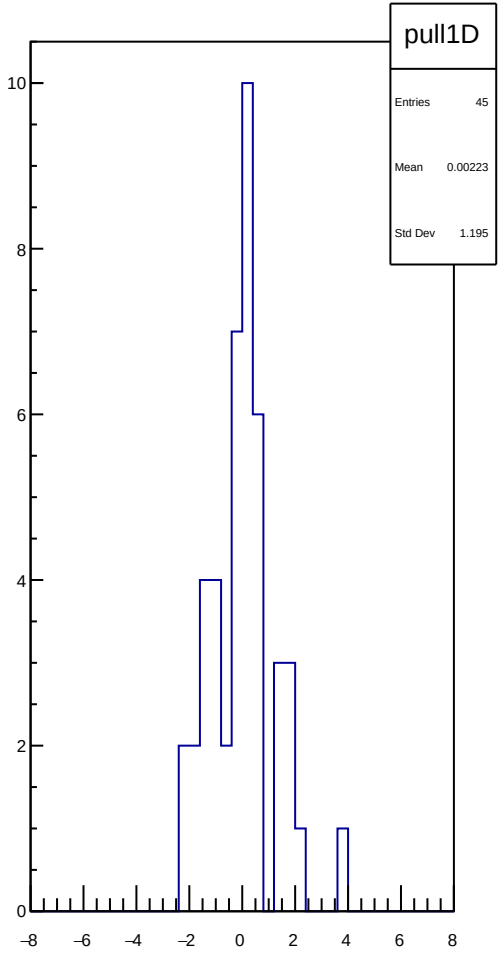

diff_bpm2i02Y_rms vs run
χ² / ndf 286.4 / 44
p0 798.6 ± 0.8503
880
860
840
820
800
780
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

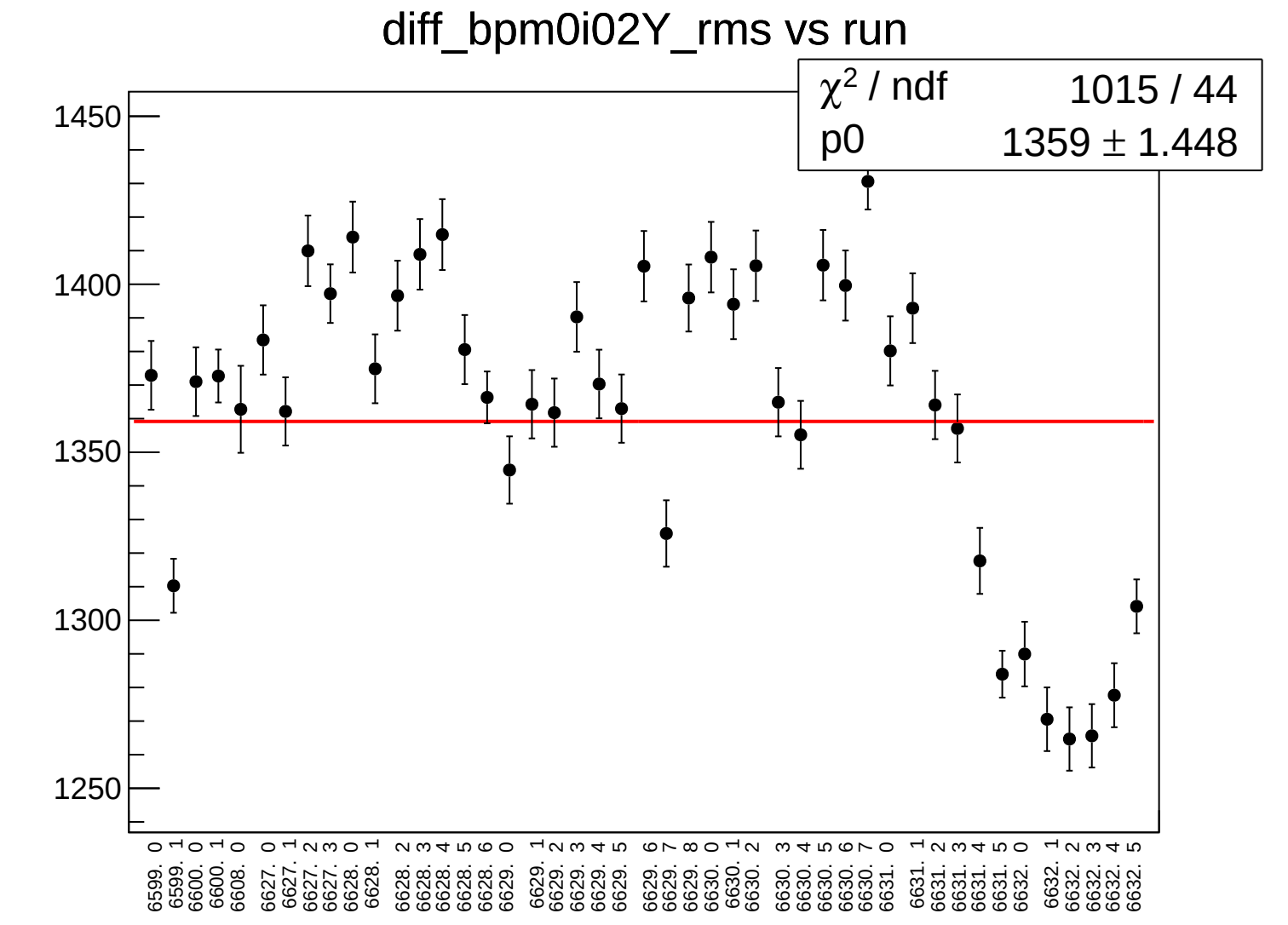

diff_bpm0i02X_mean vs run
$\chi^2$ / ndf 39.38 / 44
p0 2.619 ± 2.231
40
20
0
−20
−40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 14.78
Std Dev 50.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.01854
Std Dev 0.9353
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm0i02X_rms vs run
χ² / ndf 969 / 44
p0 1481 ± 1.577
1650
1600
1550
1500
1450
1400
1350
1300
1250
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


diff_bpm0i02Y_mean vs run
$\chi^2$ / ndf 64.27 / 44
p0 20.55 ± 2.047
pull
Entries 45
Mean −1769
Std Dev 0


pull1D
Entries 45
Mean 0.00223
Std Dev 1.195


diff_bpm0i02Y_rms vs run
χ² / ndf 1015 / 44
p0 1359 ± 1.448
1450
1400
1350
1300
1250
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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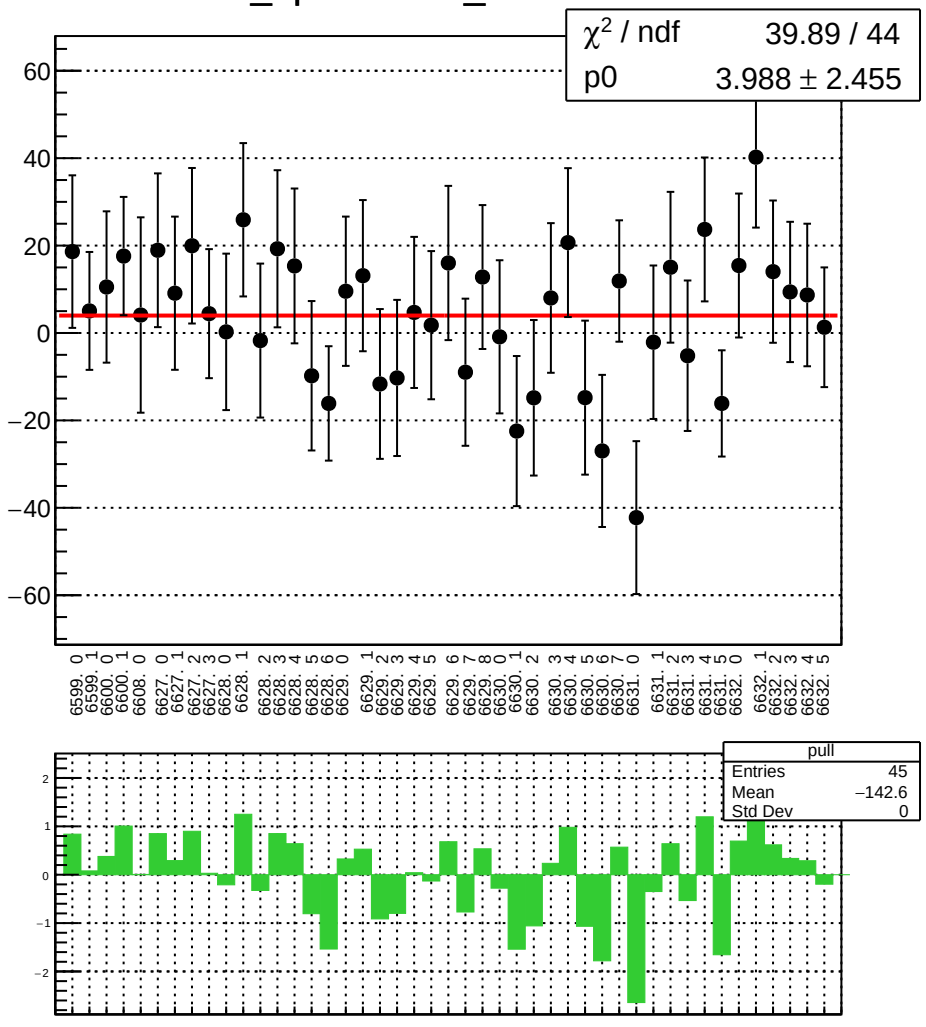
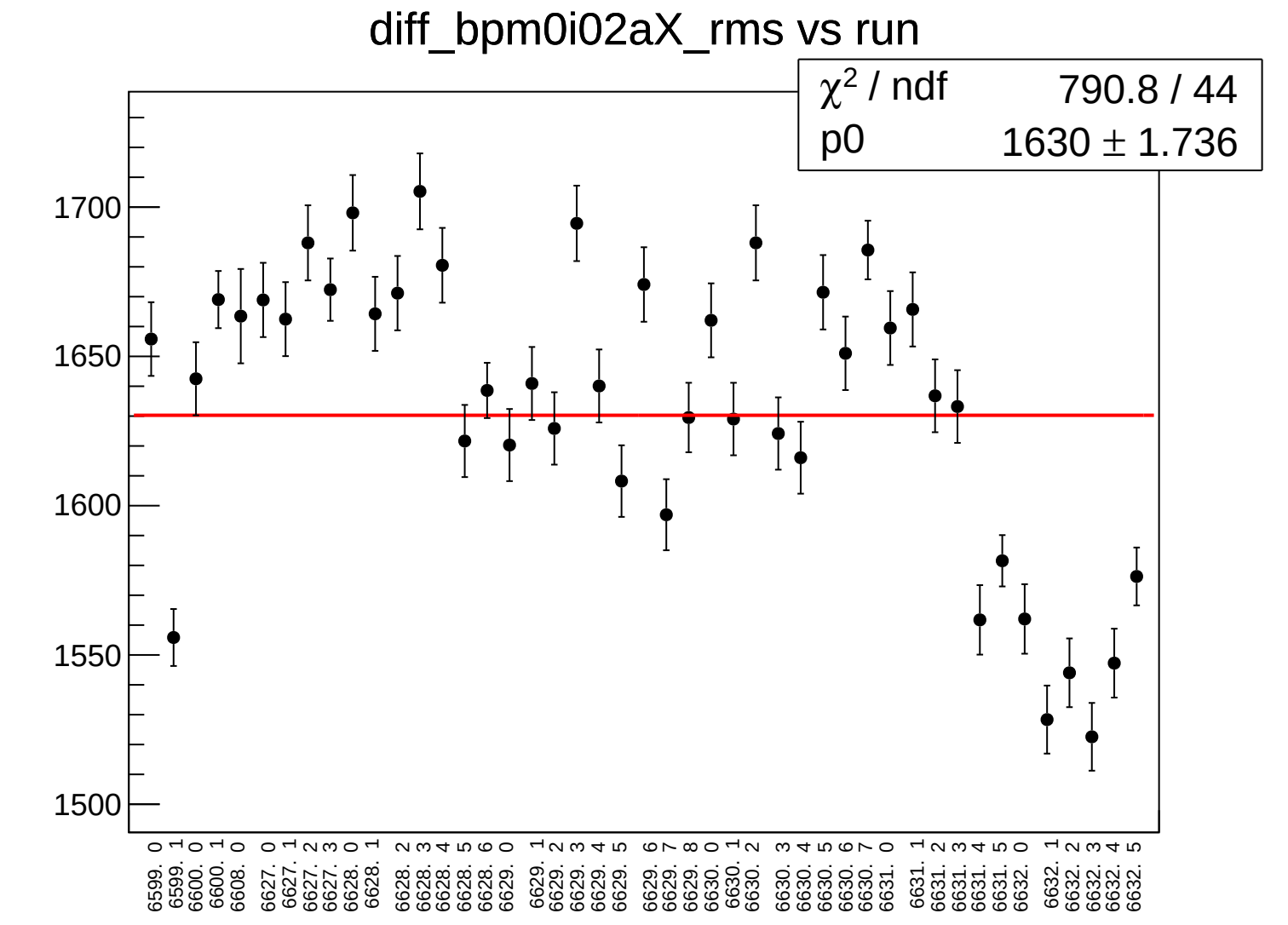
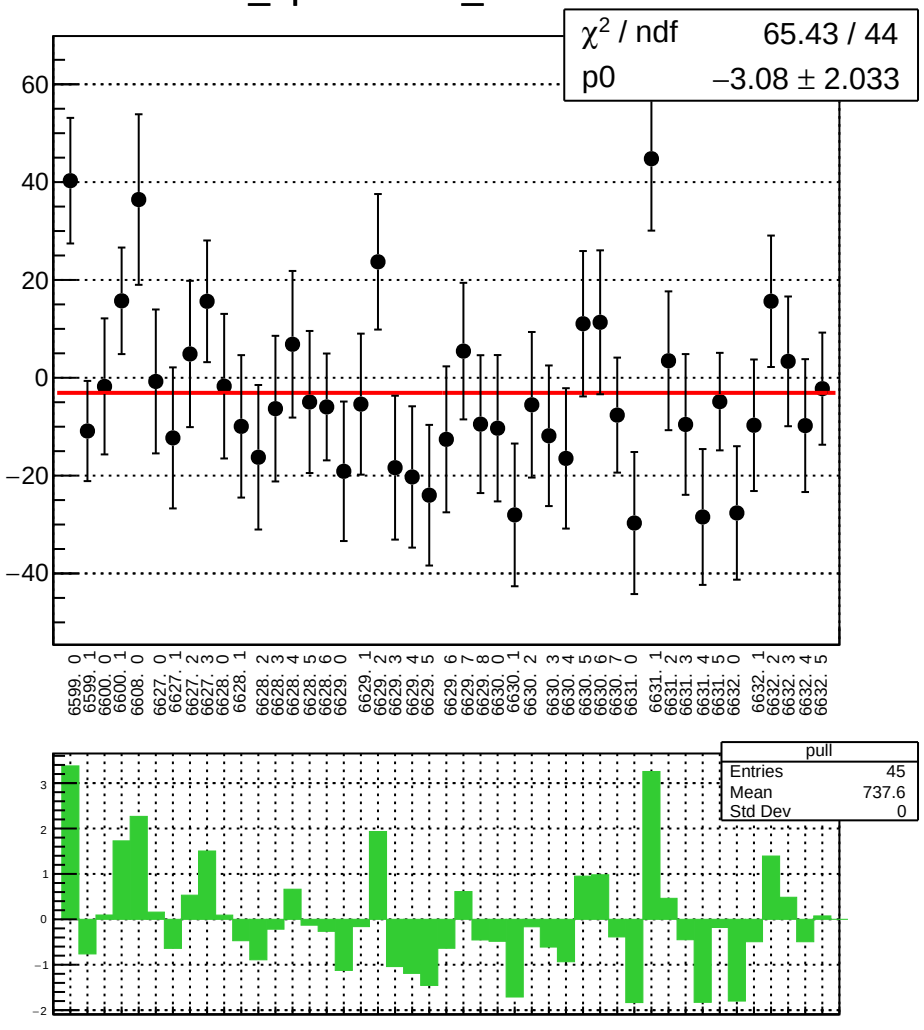
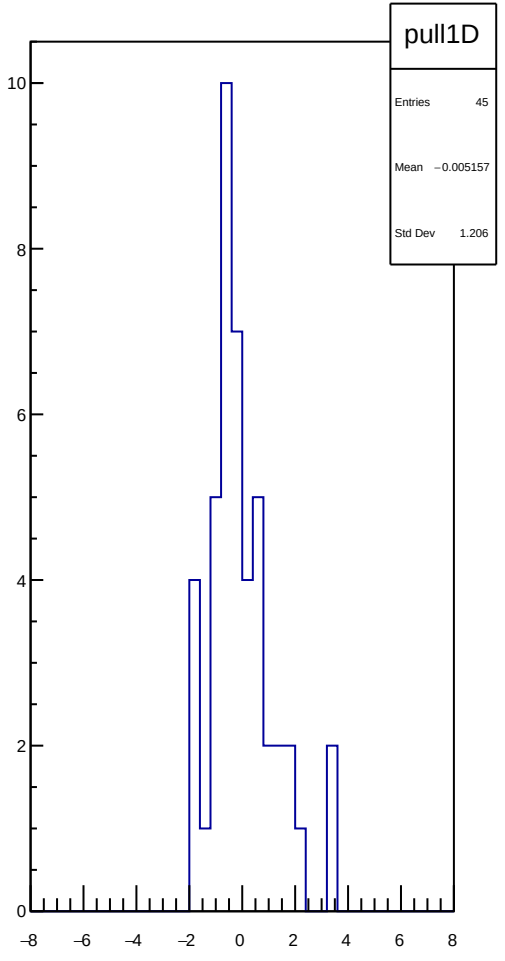
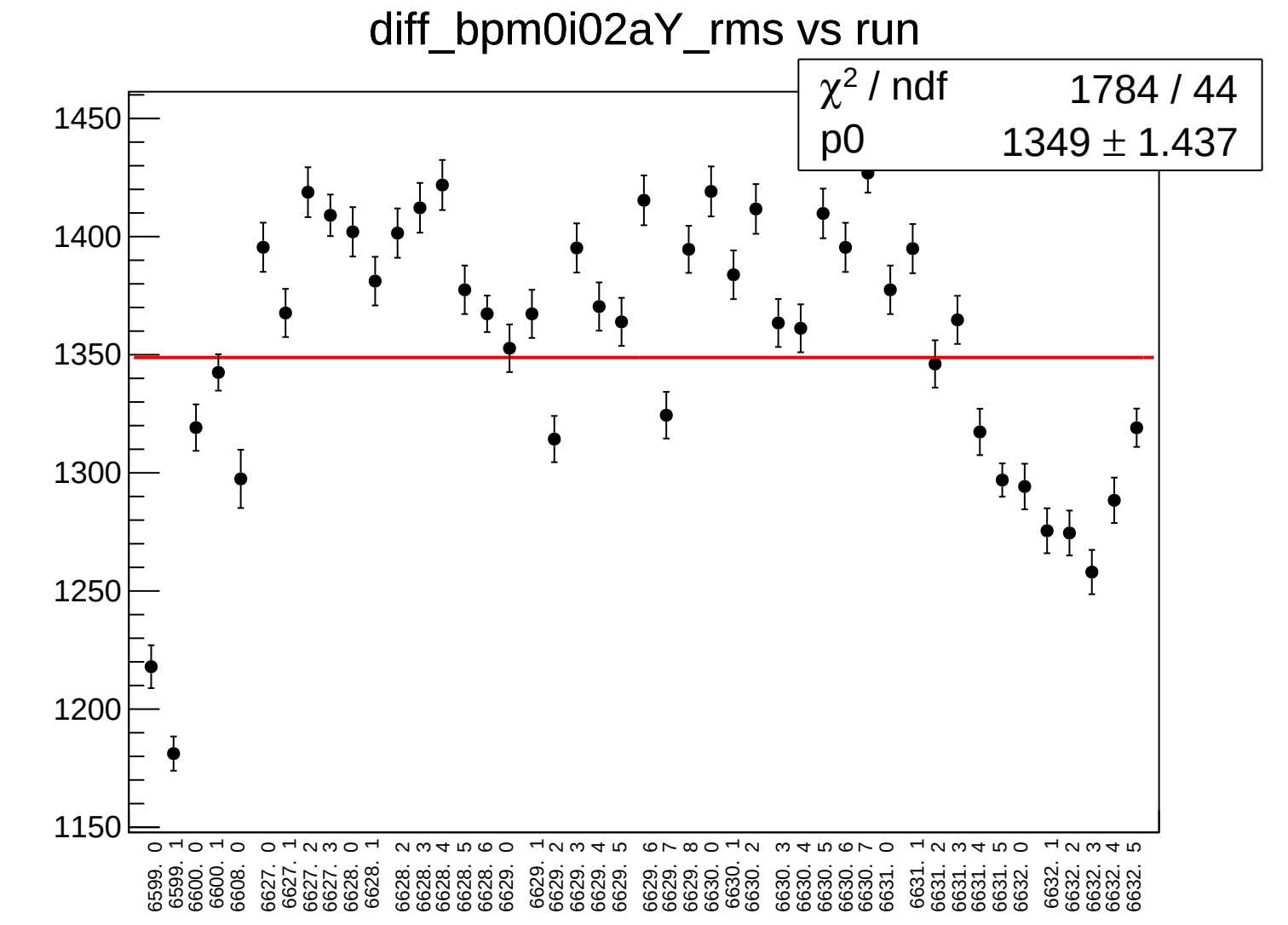
6632. 2
6632. 3
6632. 4
6632. 5

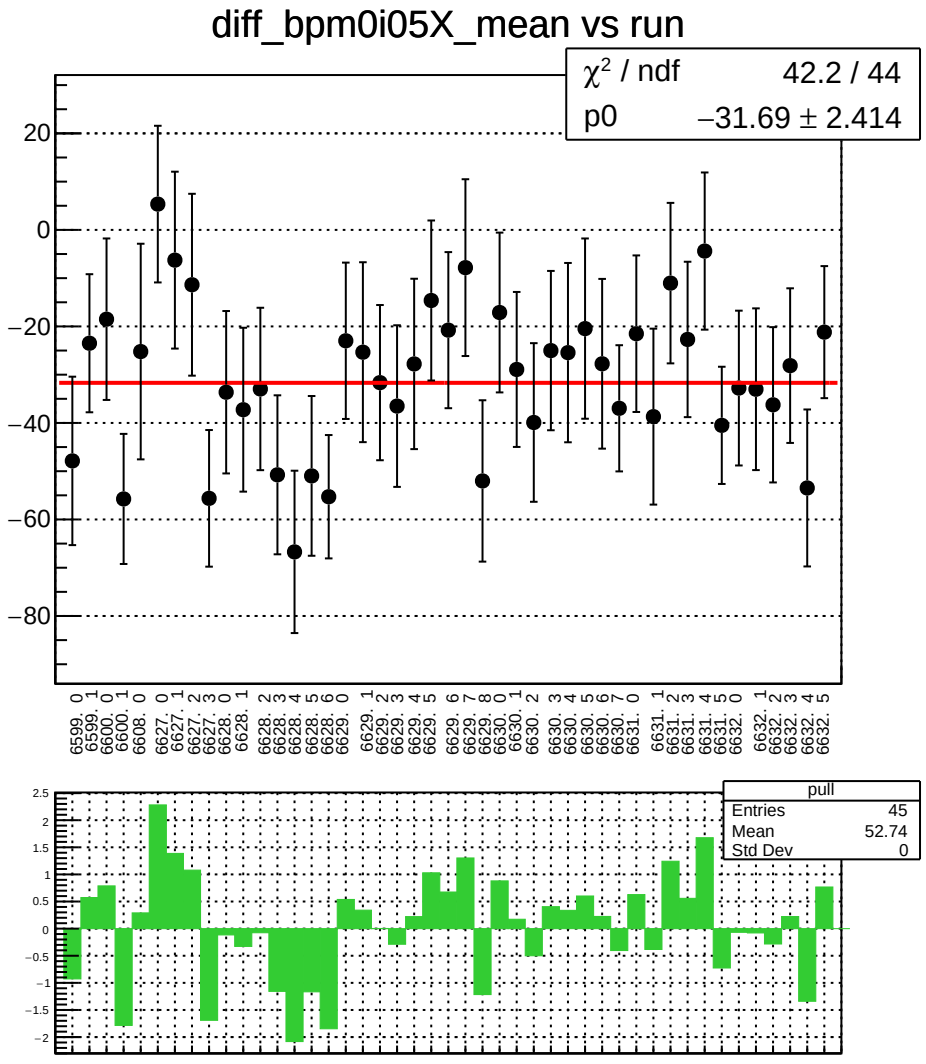

diff_bpm0i02aX_mean vs run
χ² / ndf 39.89 / 44
p0 3.988 ± 2.455
pull
Entries 45
Mean −142.6
Std Dev 0
pull1D
Entries 45
Mean 0.0101
Std Dev 0.9414

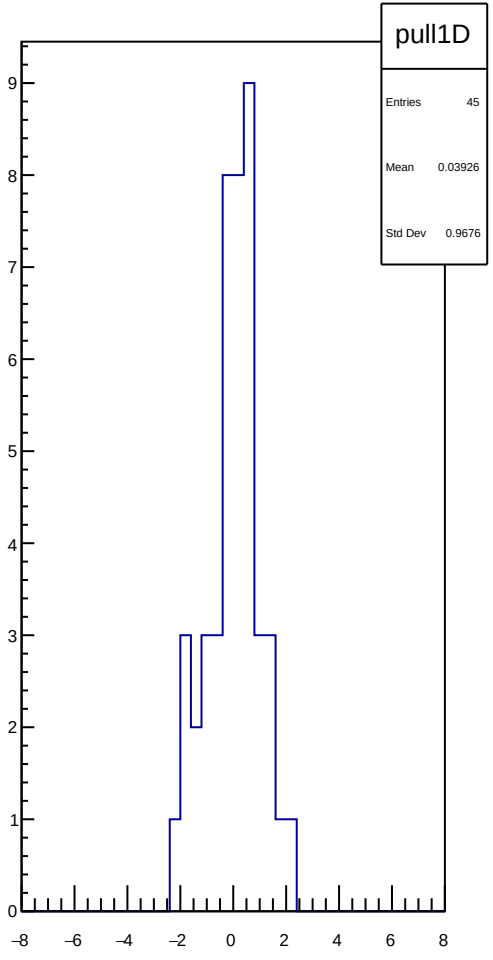

diff_bpm0i02aX_rms vs run
χ² / ndf 790.8 / 44
p0 1630 ± 1.736
1700
1650
1600
1550
1500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

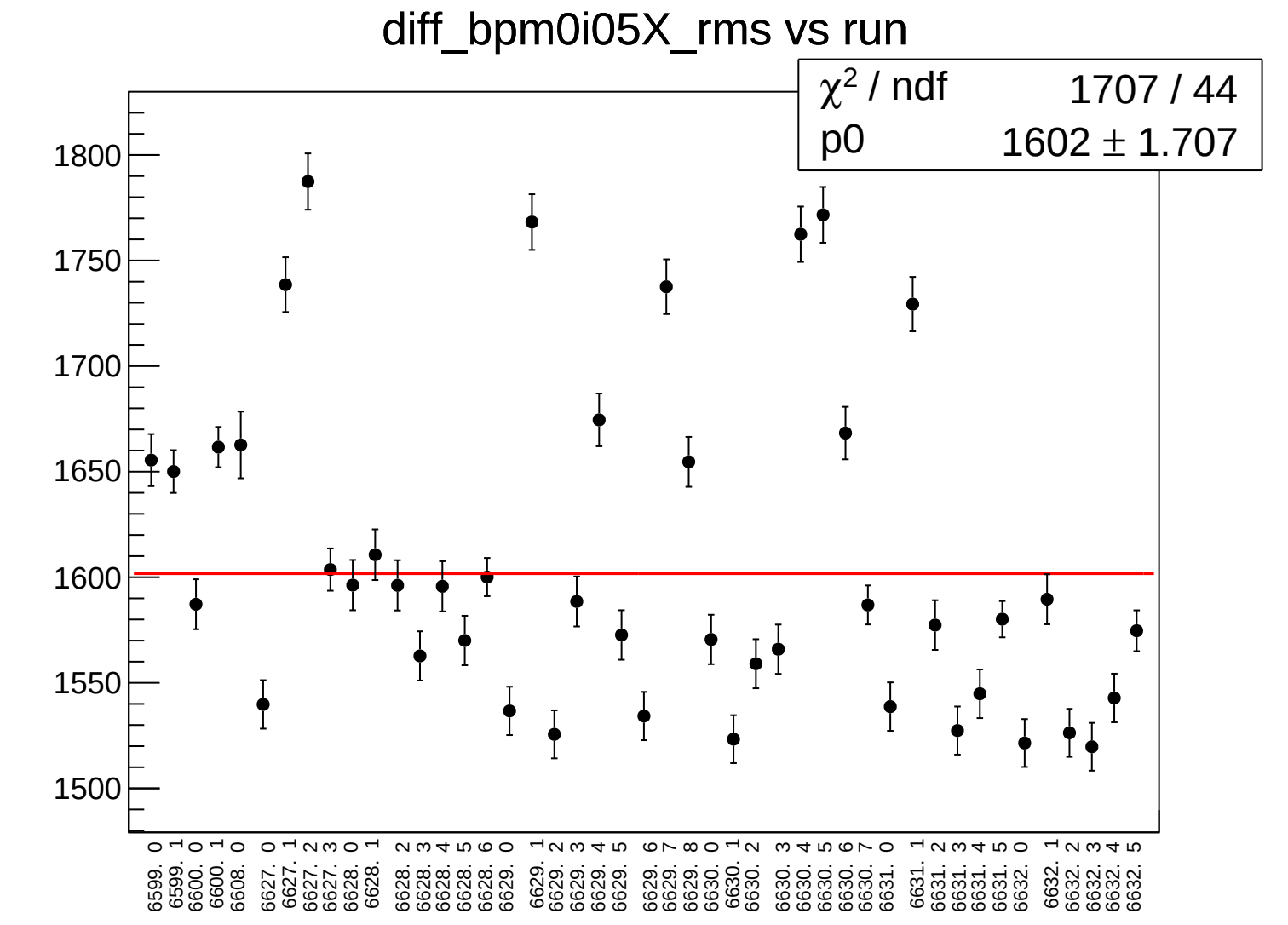

diff_bpm0i02aY_mean vs run
χ² / ndf 65.43 / 44
p0 −3.08 ± 2.033
pull
Entries 45
Mean 737.6
Std Dev 0

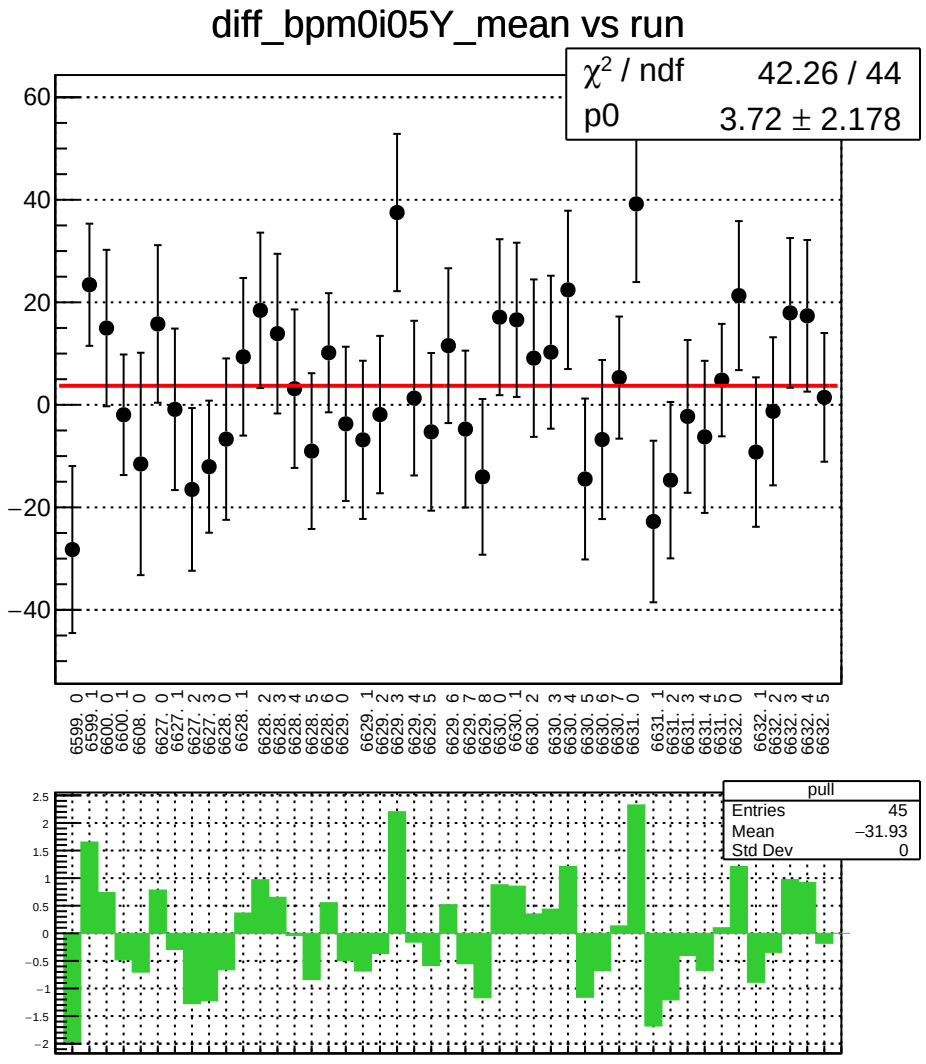

pull1D
Entries 45
Mean −0.005157
Std Dev 1.206

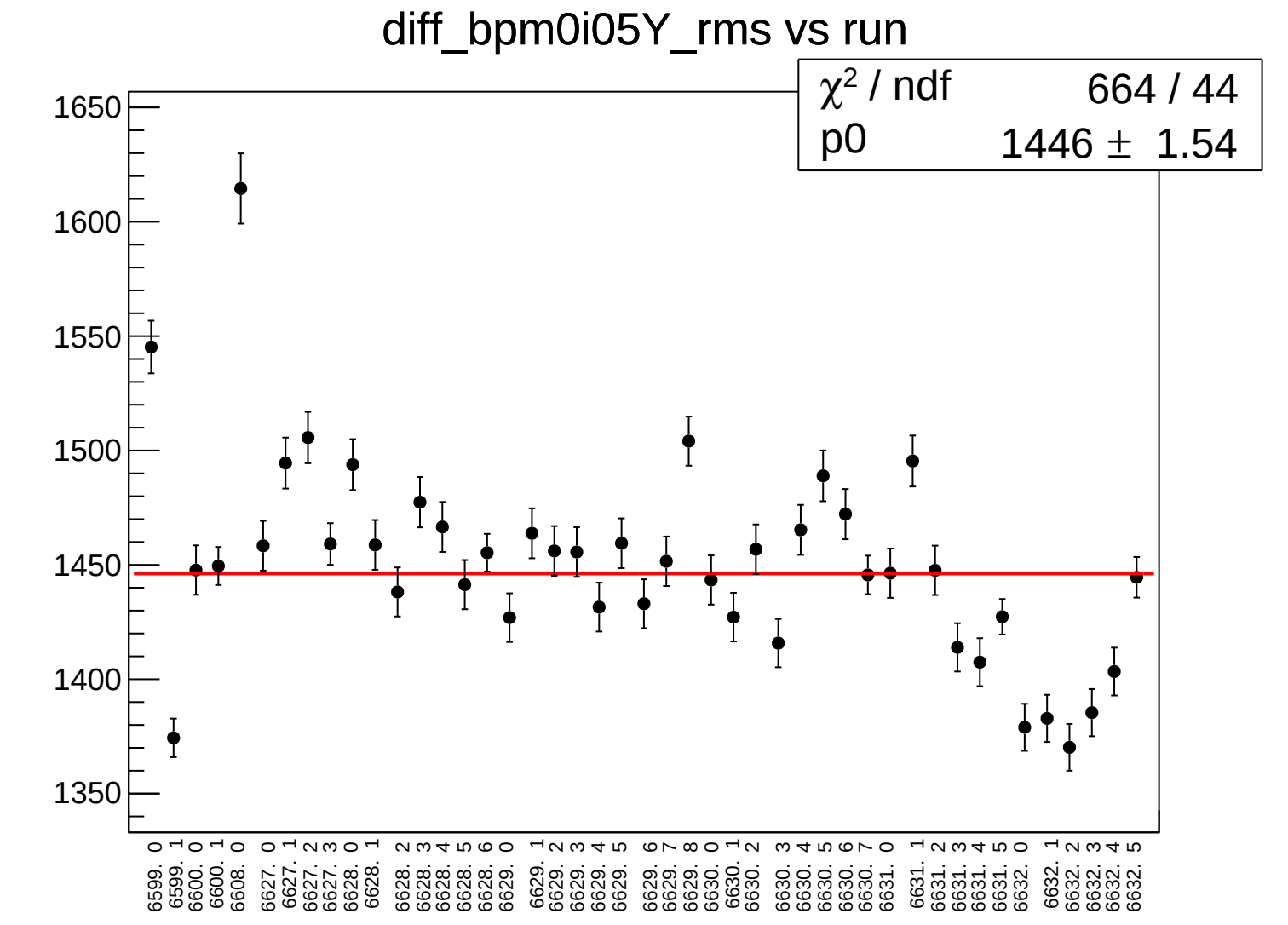

diff_bpm0i02aY_rms vs run
χ² / ndf 1784 / 44
p0 1349 ± 1.437
1450
1400
1350
1300
1250
1200
1150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


diff_bpm0i05X_mean vs run
χ² / ndf 42.2 / 44
p0 −31.69 ± 2.414
20
0
−20
−40
−60
−80
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 52.74
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.03926
Std Dev 0.9676
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm0i05X_rms vs run
χ² / ndf 1707 / 44
p0 1602 ± 1.707
1800
1750
1700
1650
1600
1550
1500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


diff_bpm0i05Y_mean vs run
χ² / ndf 42.26 / 44
p0 3.72 ± 2.178
60
40
20
0
−20
−40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −31.93
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01876
Std Dev 0.9689
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm0i05Y_rms vs run
χ² / ndf 664 / 44
p0 1446 ± 1.54
1650
1600
1550
1500
1450
1400
1350
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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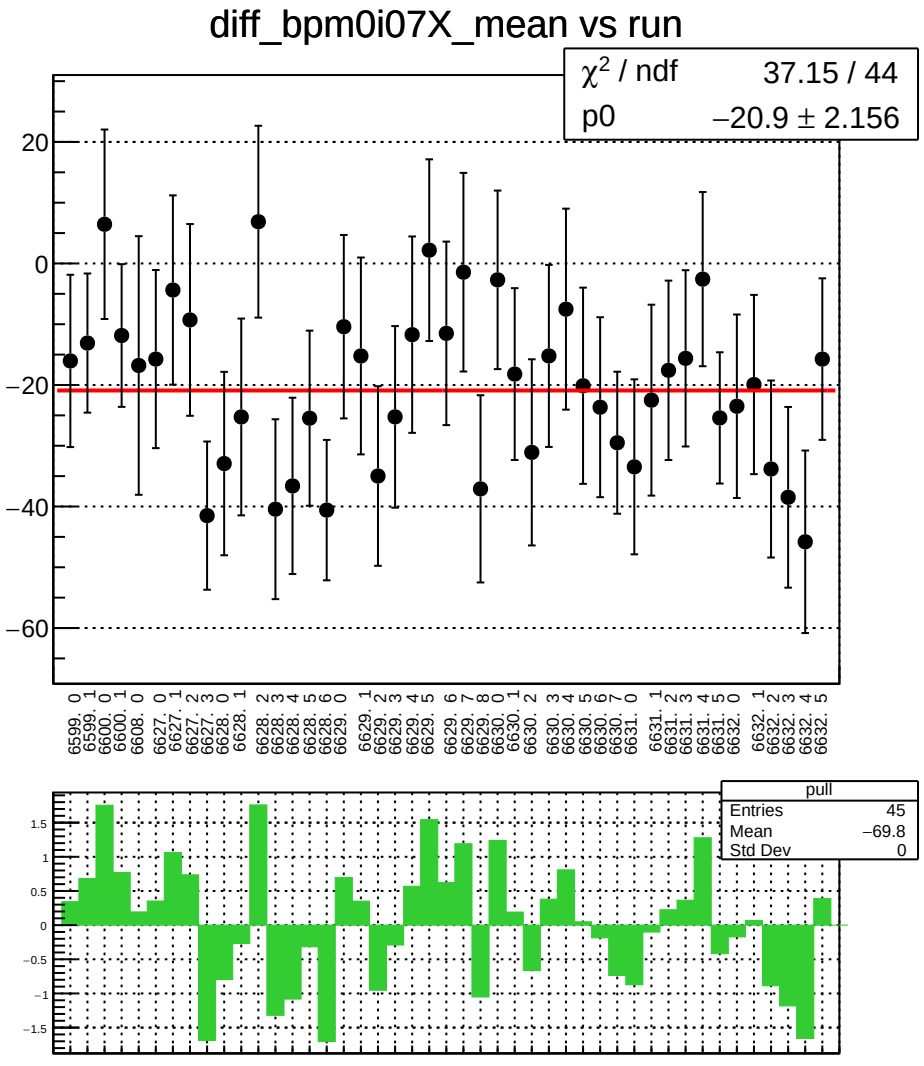
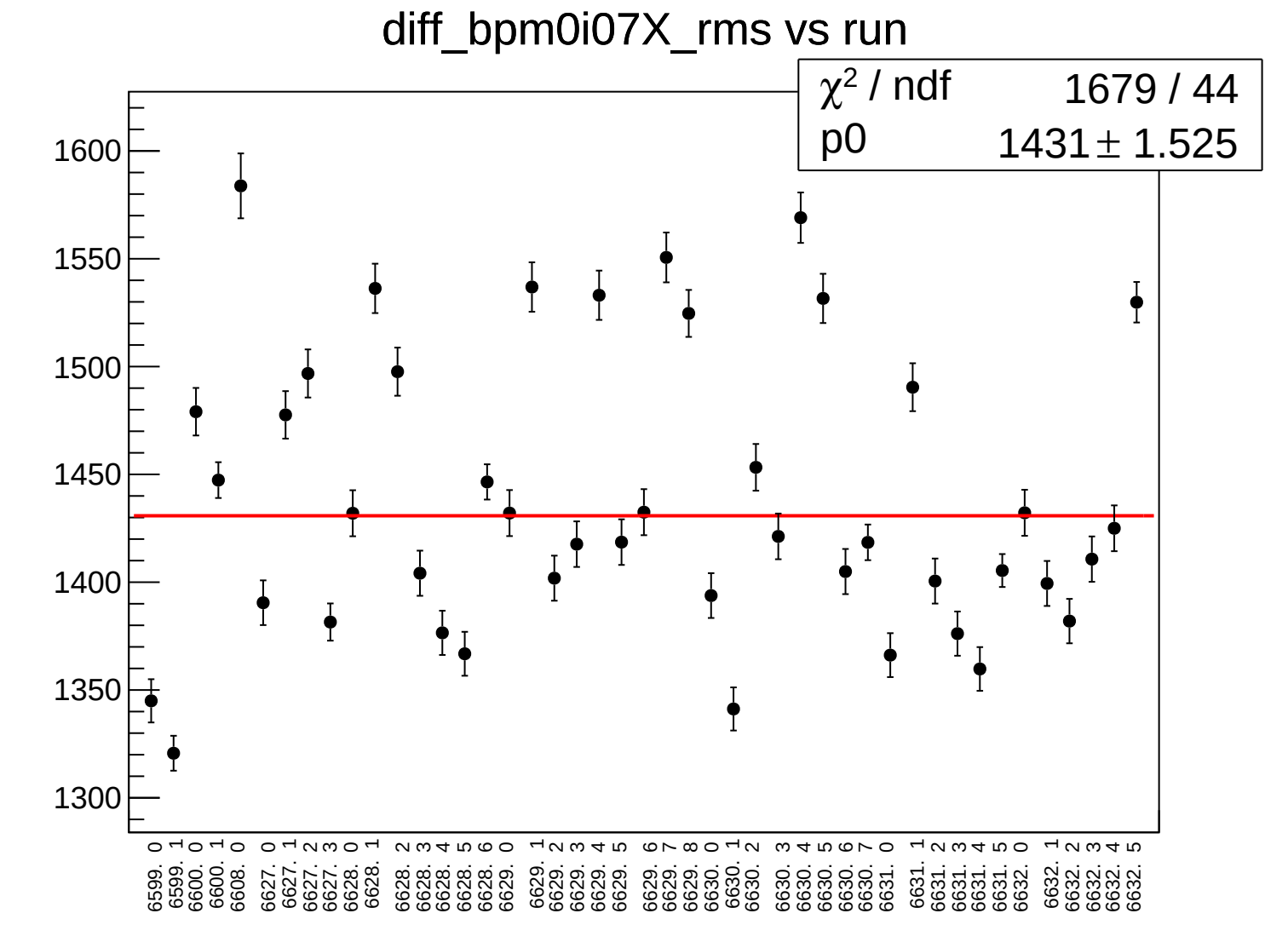
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


diff_bpm0i07X_mean vs run
χ² / ndf 37.15 / 44
p0 −20.9 ± 2.156
20
0
−20
−40
−60
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −69.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.02817
Std Dev 0.9082
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm0i07X_rms vs run
χ² / ndf 1679 / 44
p0 1431 ± 1.525
1600
1550
1500
1450
1400
1350
1300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
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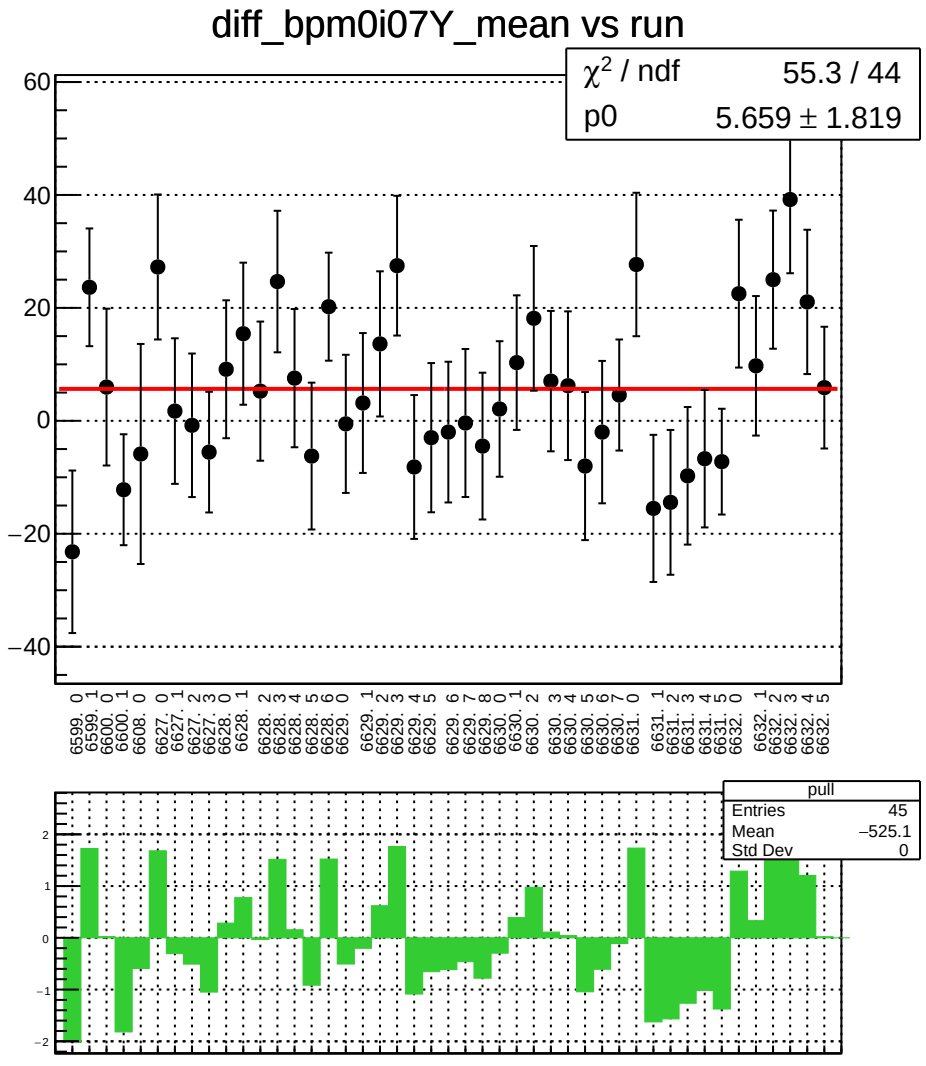
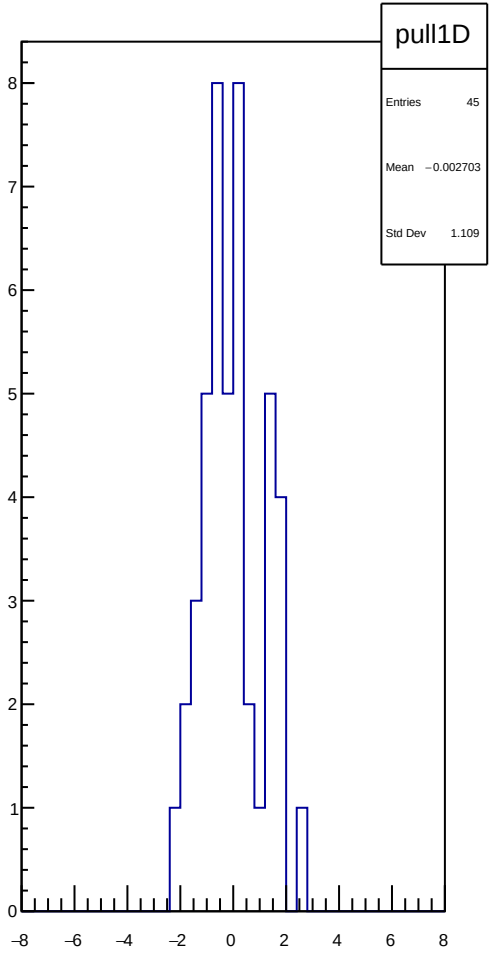
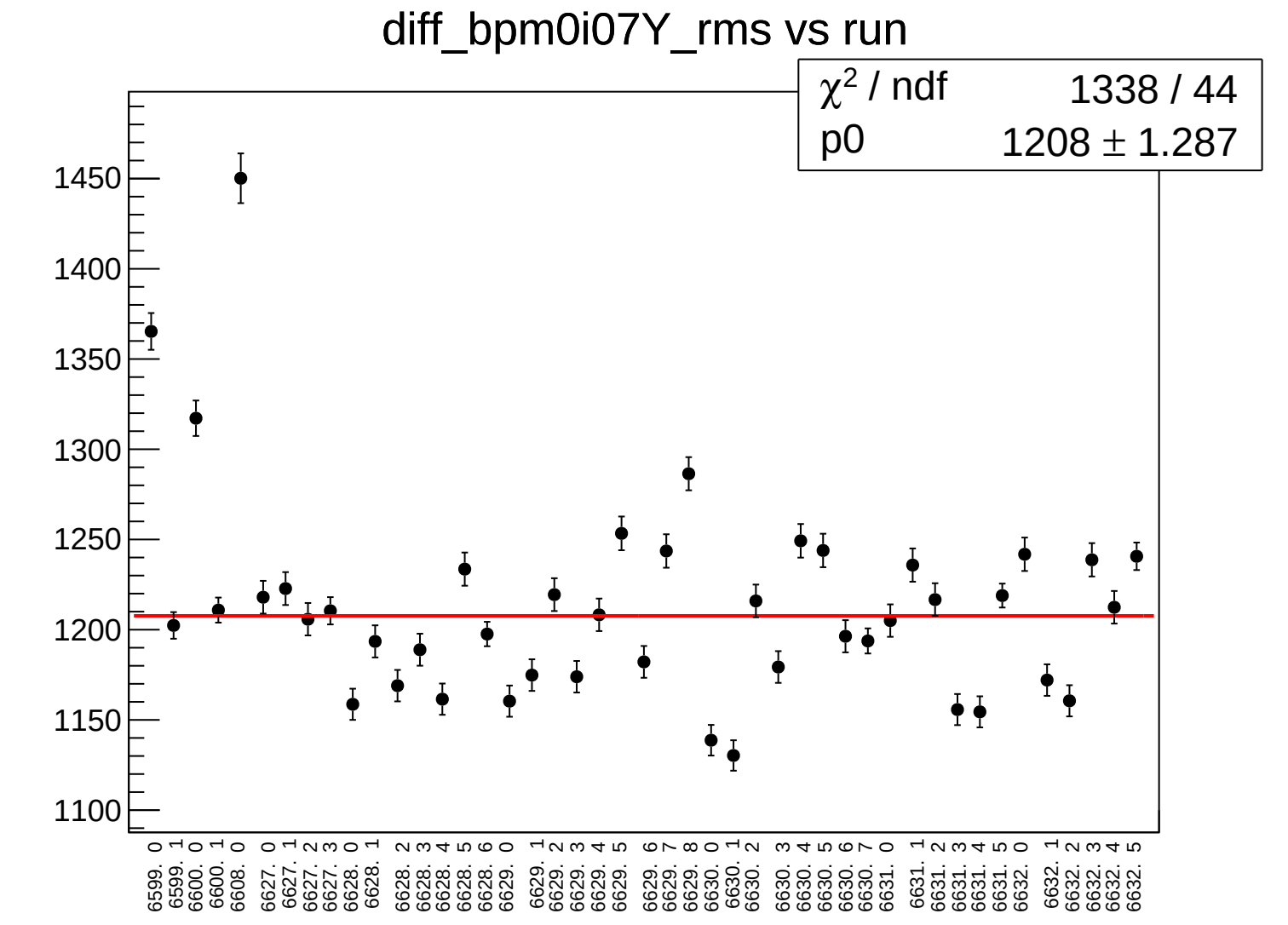
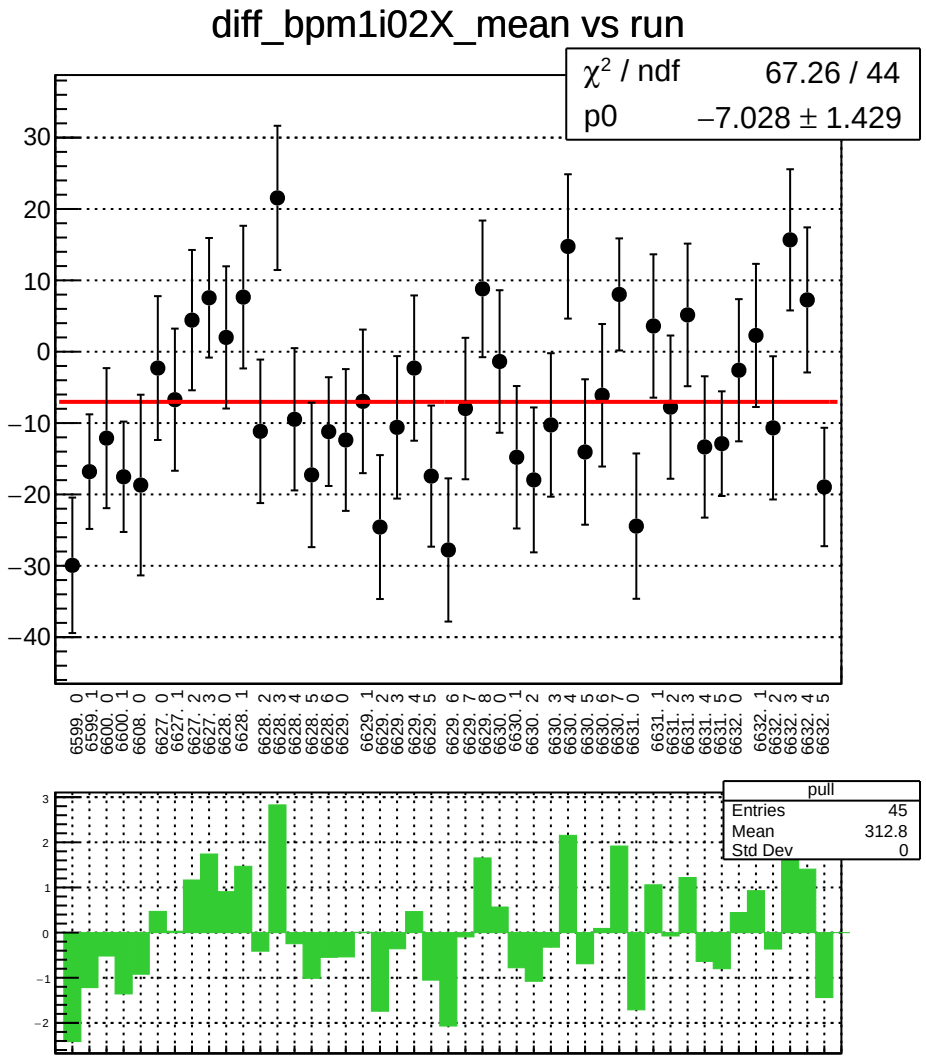
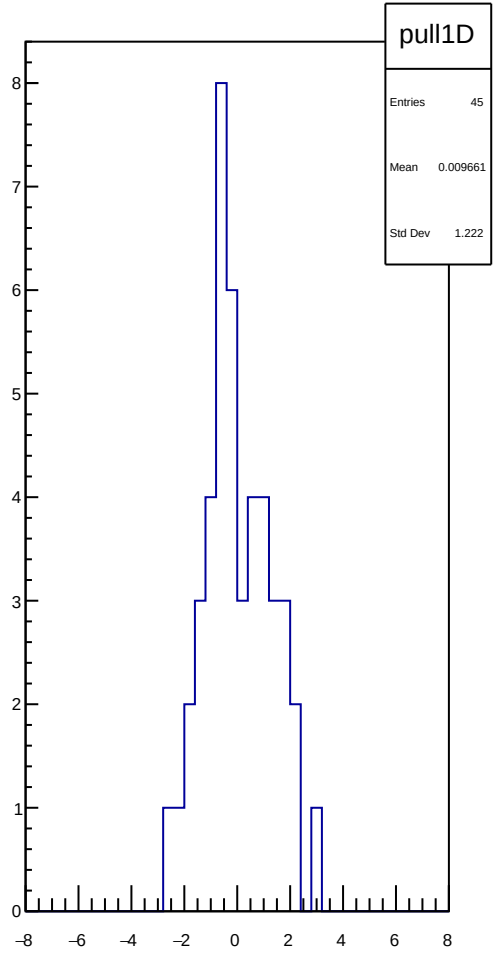
6632. 2
6632. 3
6632. 4
6632. 5

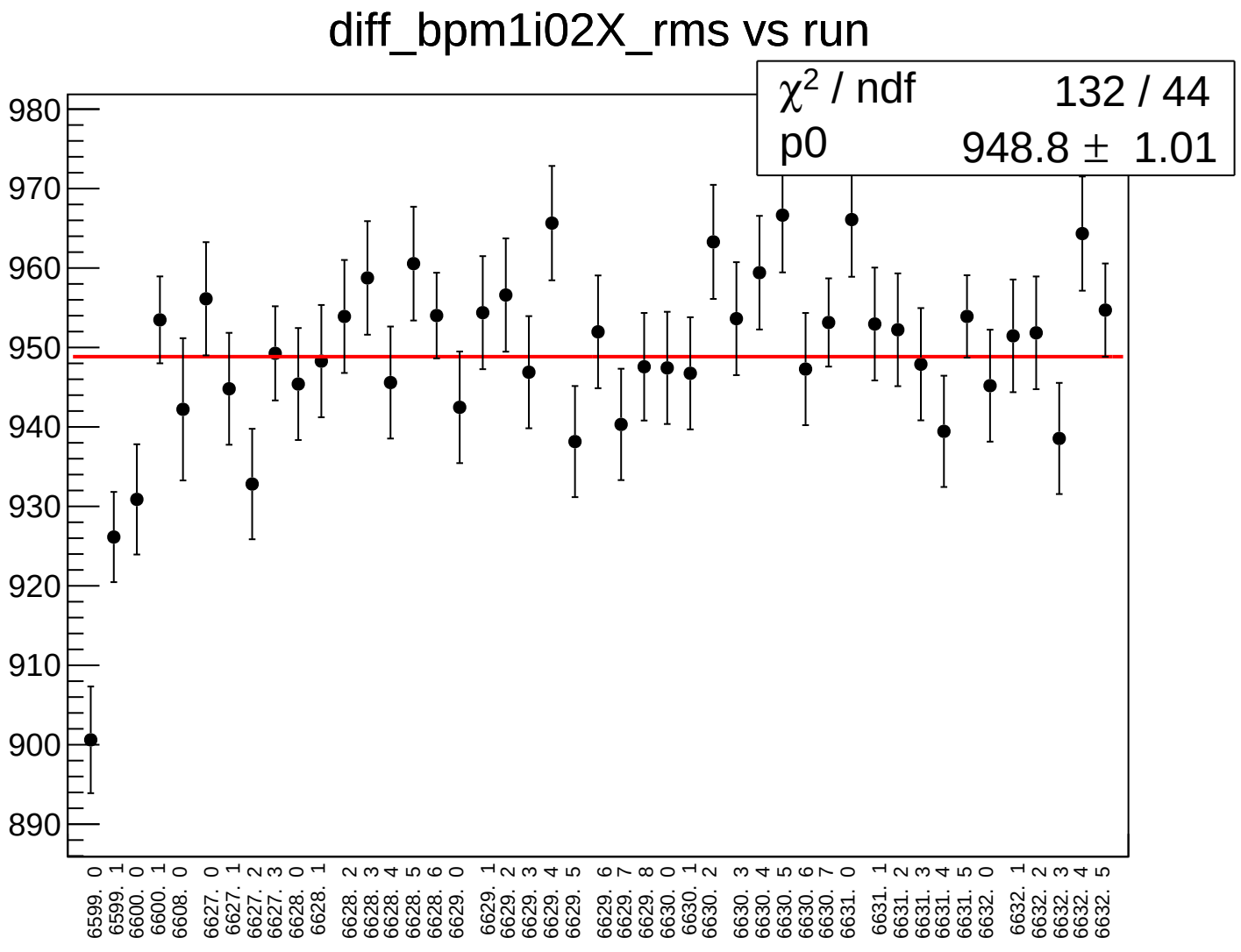

diff_bpm0i07Y_mean vs run
χ² / ndf 55.3 / 44
p0 5.659 ± 1.819
pull
Entries 45
Mean −525.1
Std Dev 0

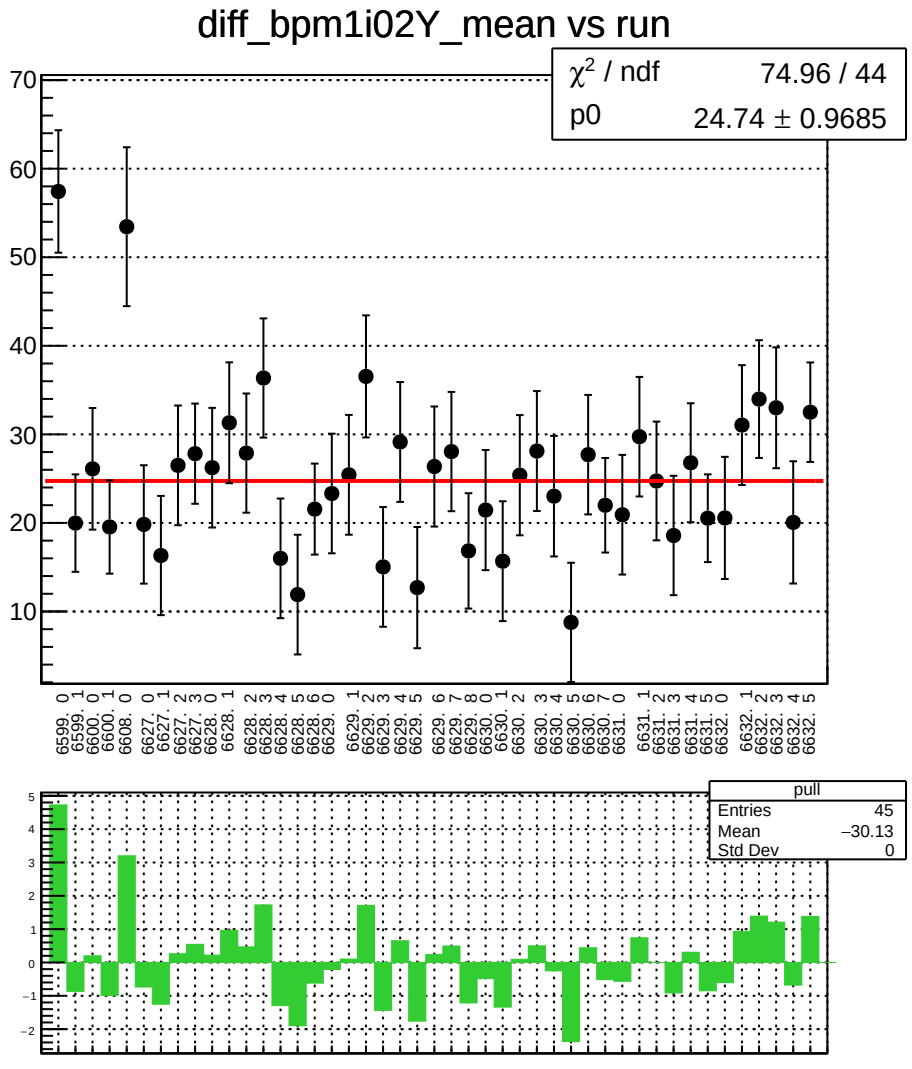

pull1D
Entries 45
Mean −0.002703
Std Dev 1.109


diff_bpm0i07Y_rms vs run
χ² / ndf 1338 / 44
p0 1208 ± 1.287
1450
1400
1350
1300
1250
1200
1150
1100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

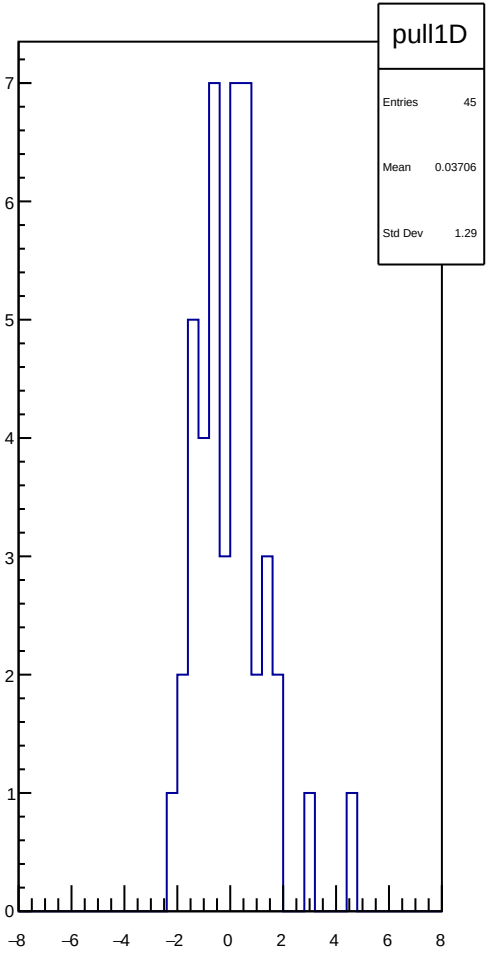

diff_bpm1i02X_mean vs run
χ² / ndf 67.26 / 44
p0 −7.028 ± 1.429
30
20
10
0
−10
−20
−30
−40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 312.8
Std Dev 0
3
2
1
0
−1
−2

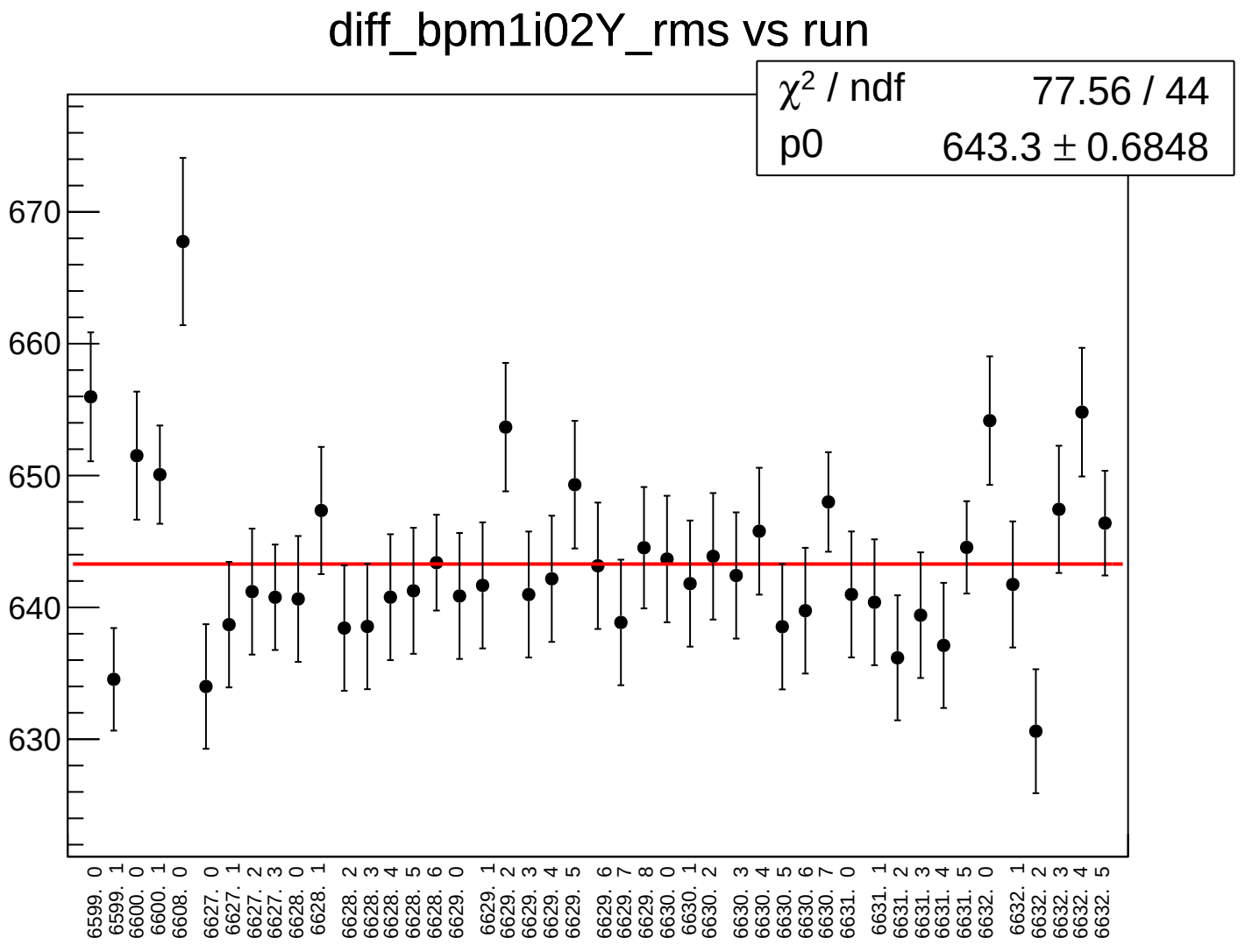

pull1D
Entries 45
Mean 0.009661
Std Dev 1.222
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

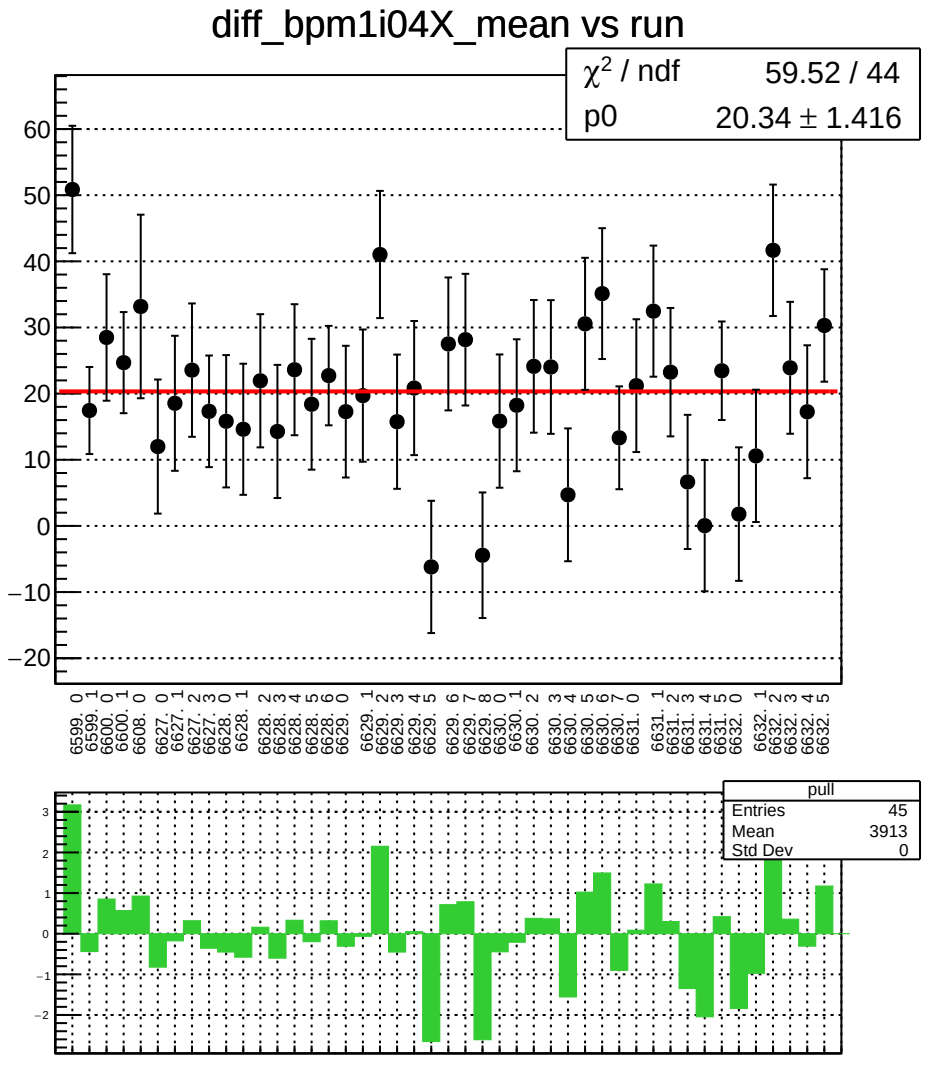

diff_bpm1i02X_rms vs run
χ² / ndf 132 / 44
p0 948.8 ± 1.01
980
970
960
950
940
930
920
910
900
890
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

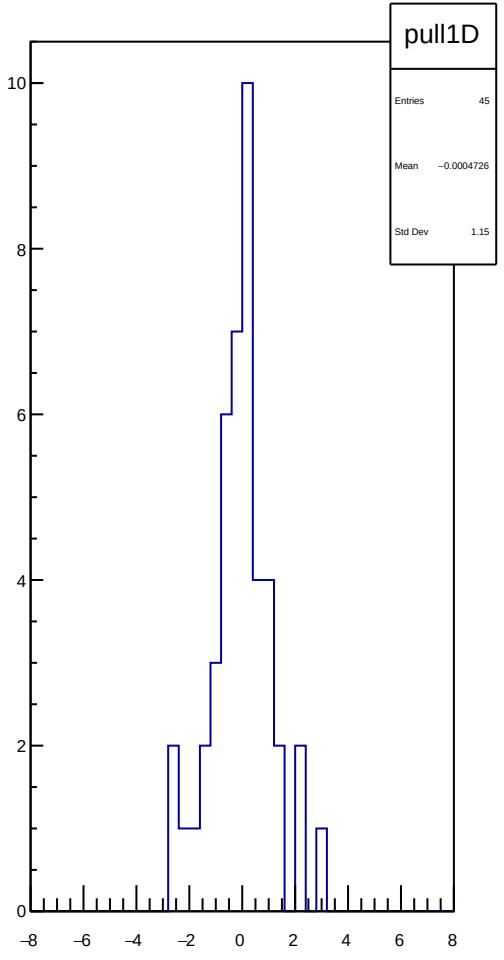

diff_bpm1i02Y_mean vs run
χ² / ndf 74.96 / 44
p0 24.74 ± 0.9685
70
60
50
40
30
20
10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

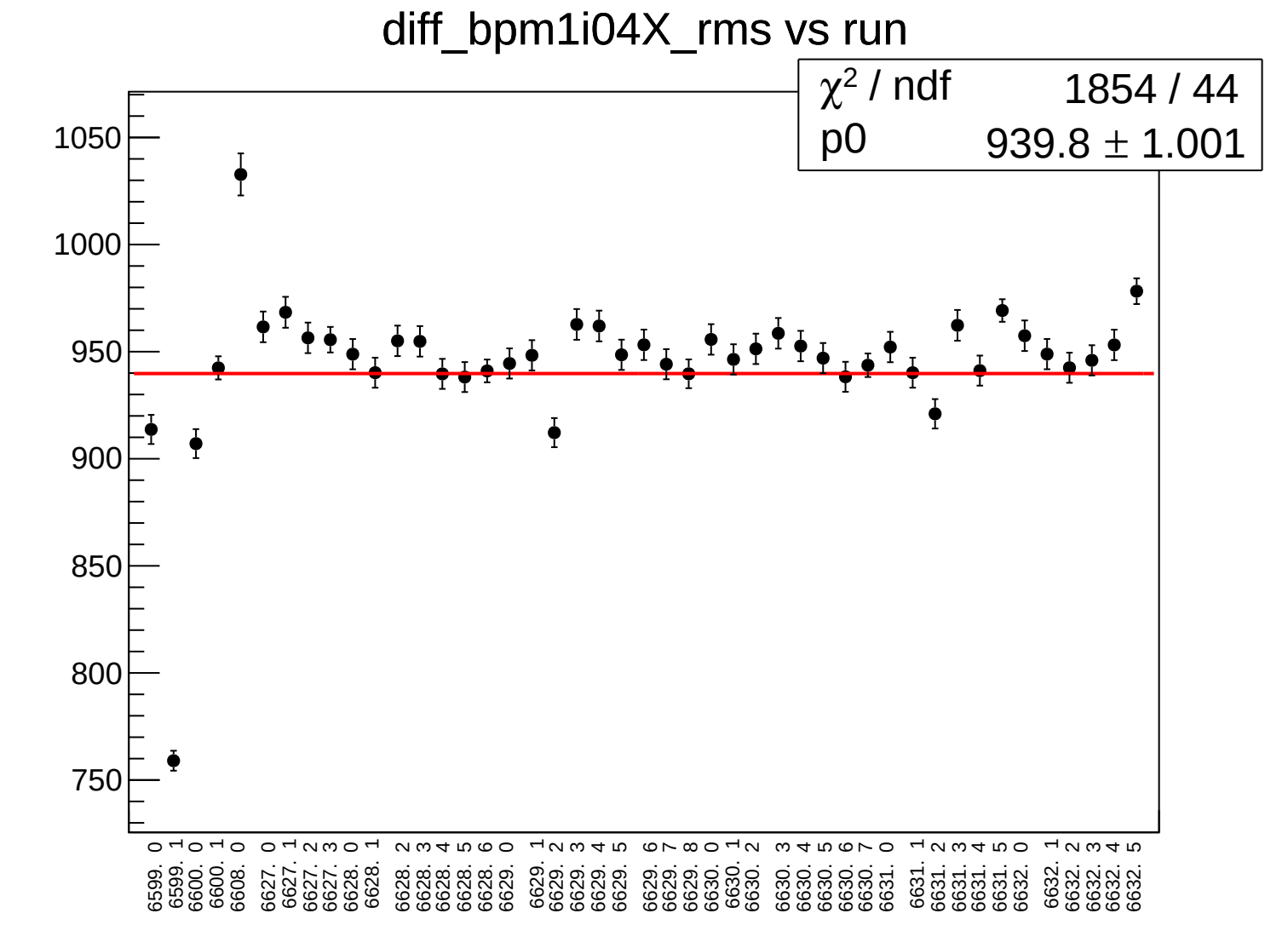

pull
Entries 45
Mean −30.13
Std Dev 0
5
4
3
2
1
0
−1
−2

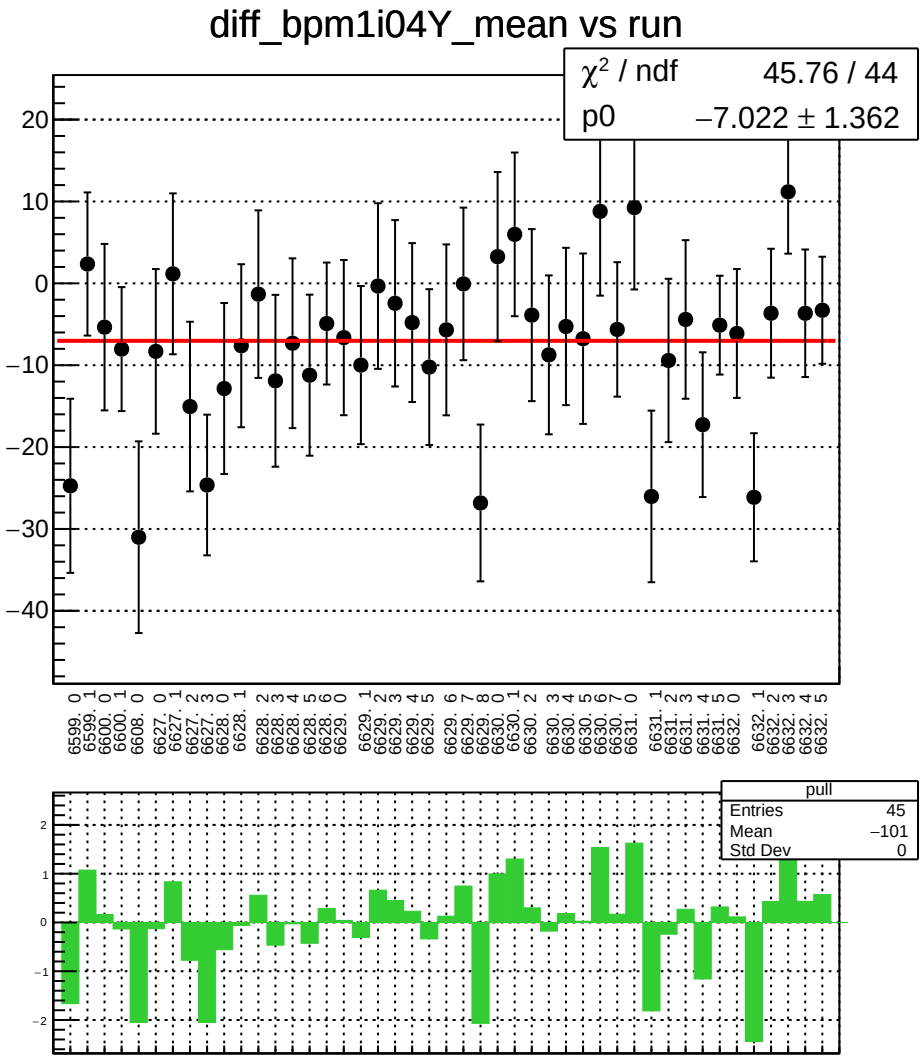

pull1D
Entries 45
Mean 0.03706
Std Dev 1.29
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

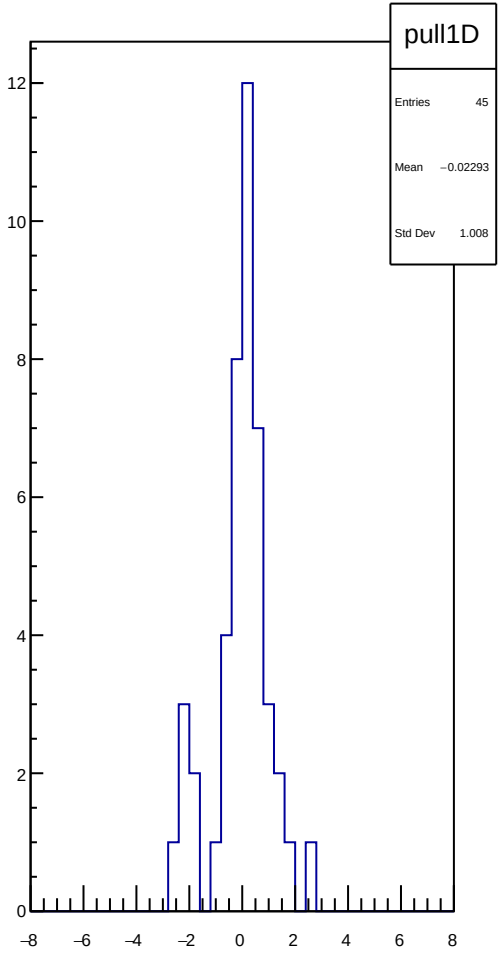

diff_bpm1i02Y_rms vs run
χ² / ndf 77.56 / 44
p0 643.3 ± 0.6848
670
660
650
640
630
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

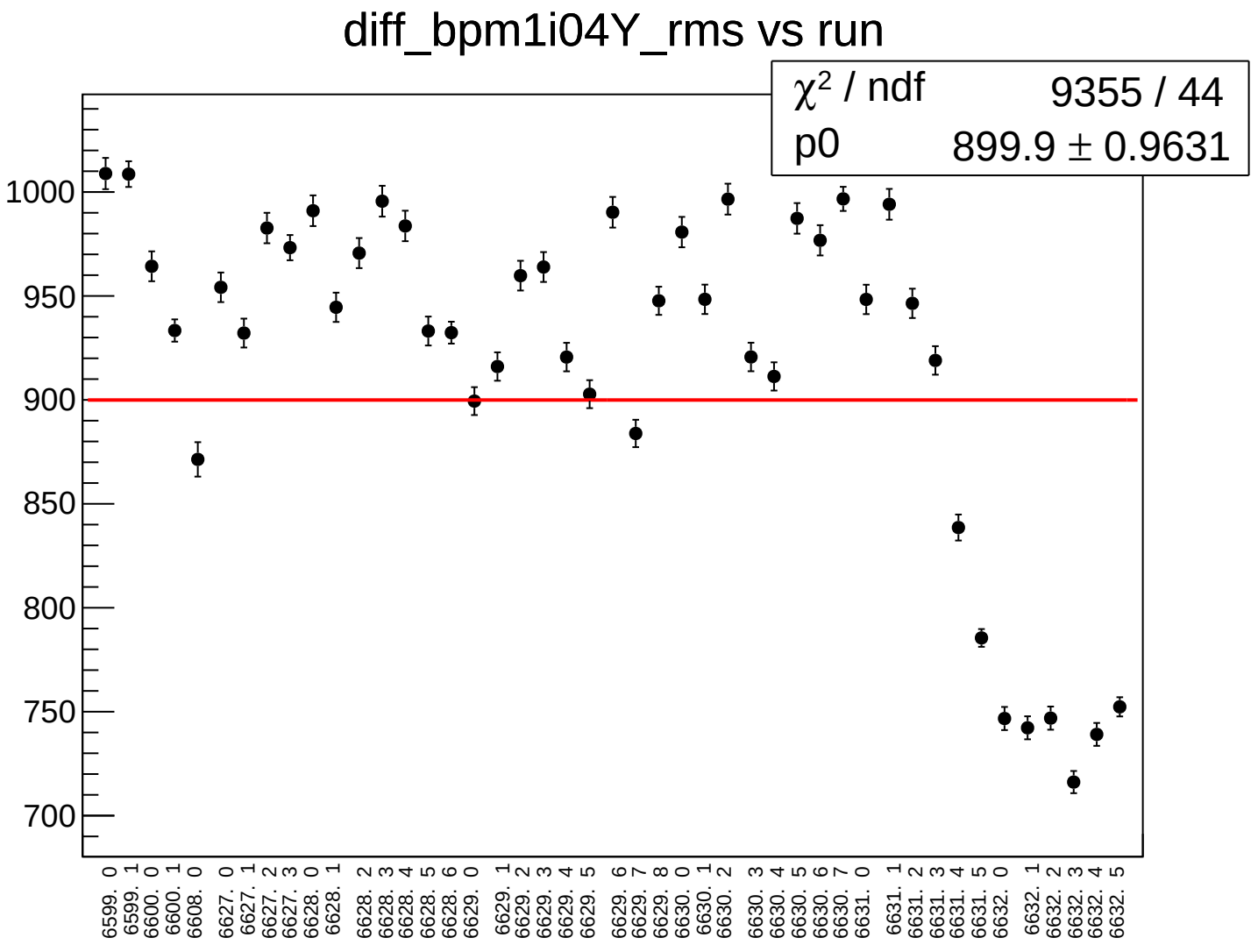

diff_bpm1i04X_mean vs run
χ² / ndf 59.52 / 44
p0 20.34 ± 1.416
pull
Entries 45
Mean 3913
Std Dev 0

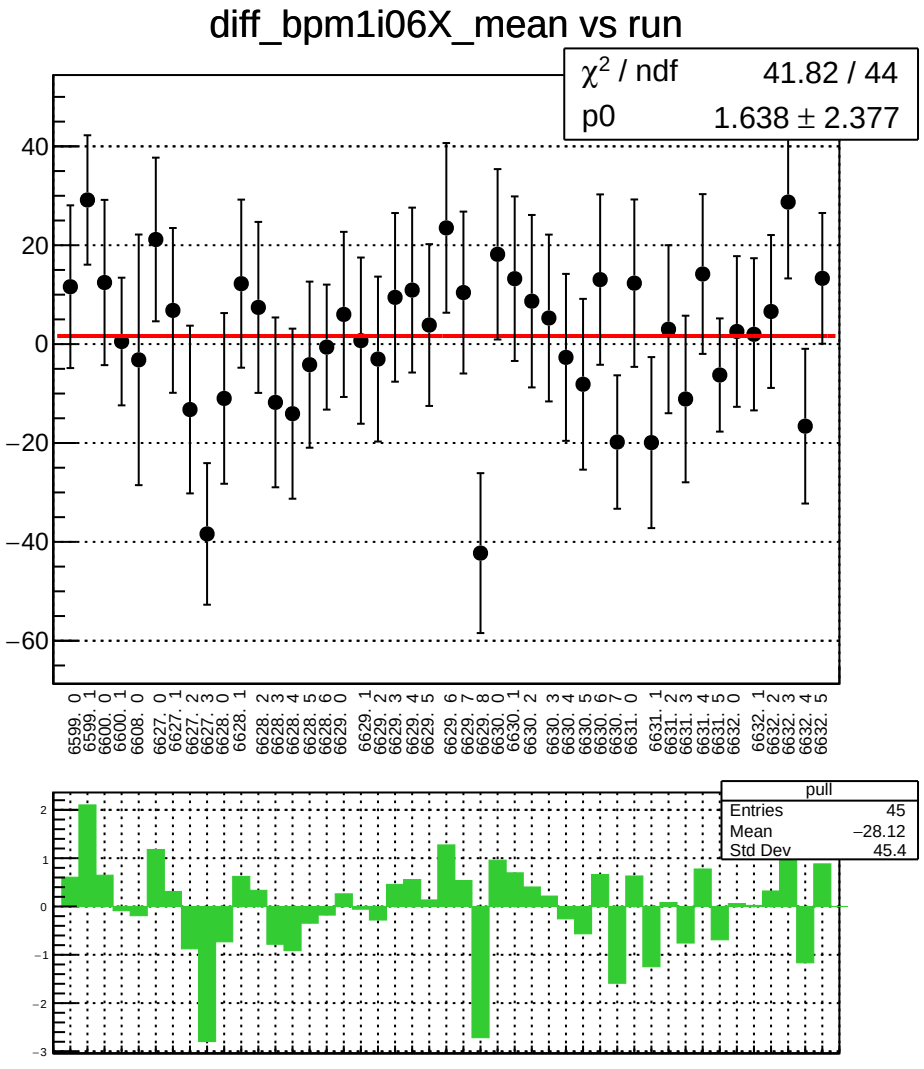

pull1D
Entries 45
Mean −0.0004726
Std Dev 1.15

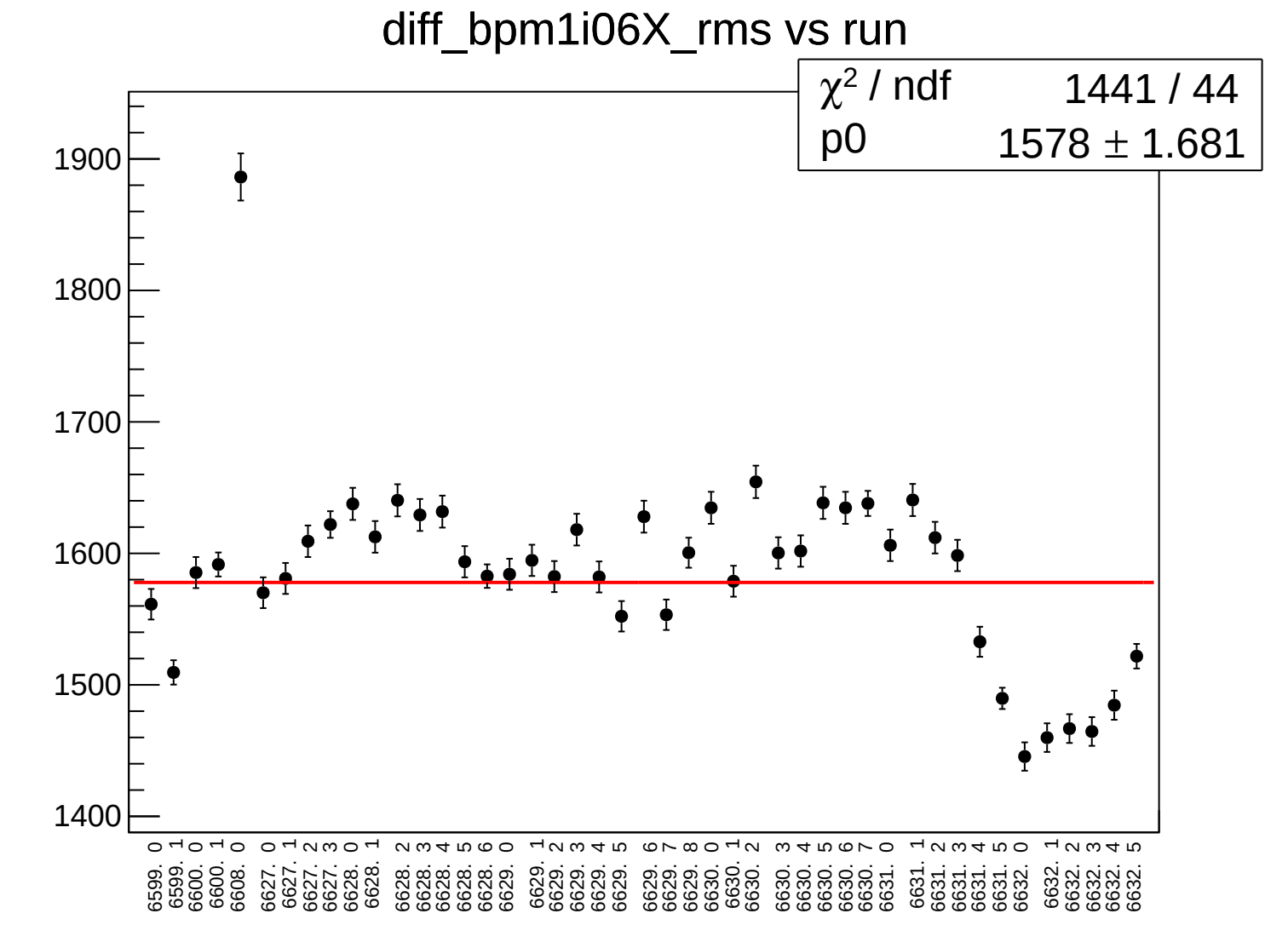

diff_bpm1i04X_rms vs run
χ² / ndf 1854 / 44
p0 939.8 ± 1.001
1050
1000
950
900
850
800
750
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

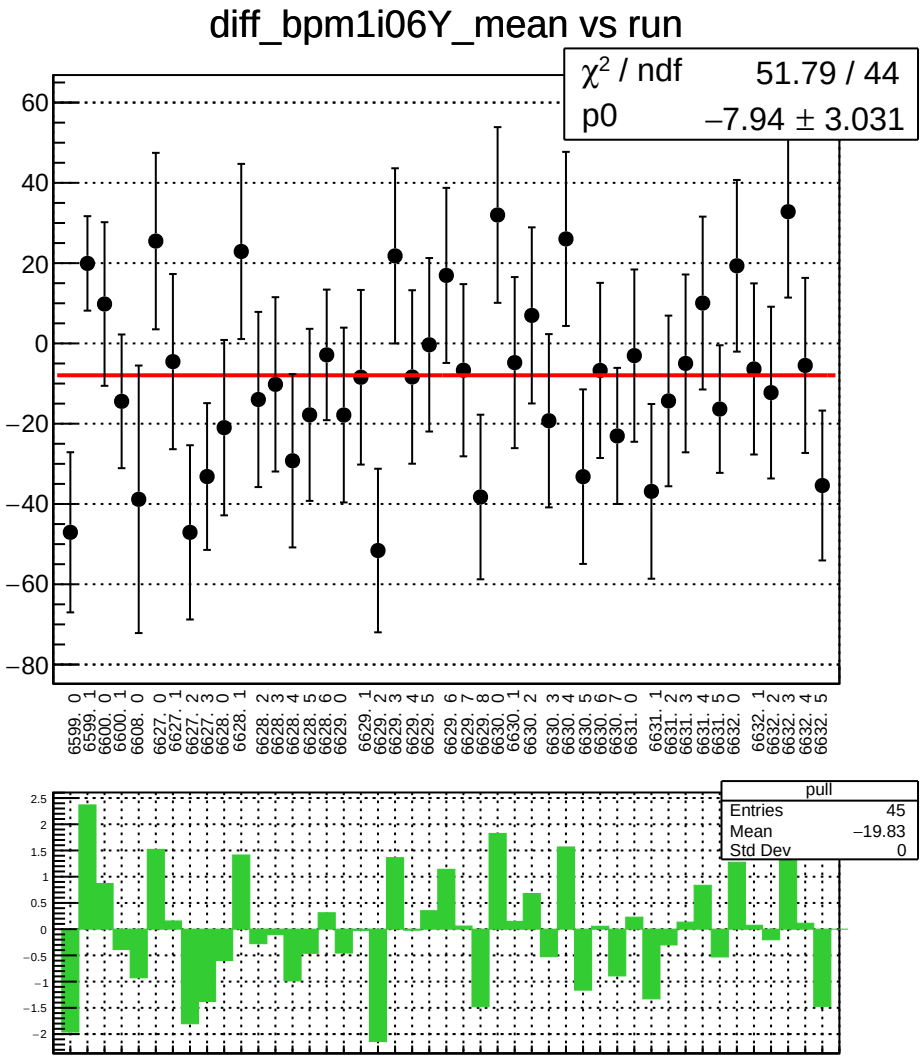

diff_bpm1i04Y_mean vs run
χ² / ndf 45.76 / 44
p0 −7.022 ± 1.362
20
10
0
−10
−20
−30
−40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −101
Std Dev 0
2
1
0
−1
−2

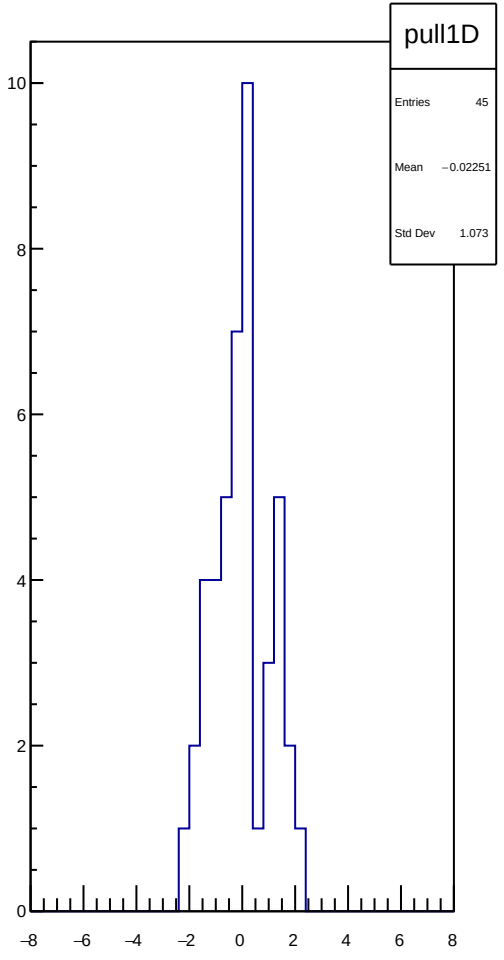

pull1D
Entries 45
Mean −0.02293
Std Dev 1.008
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

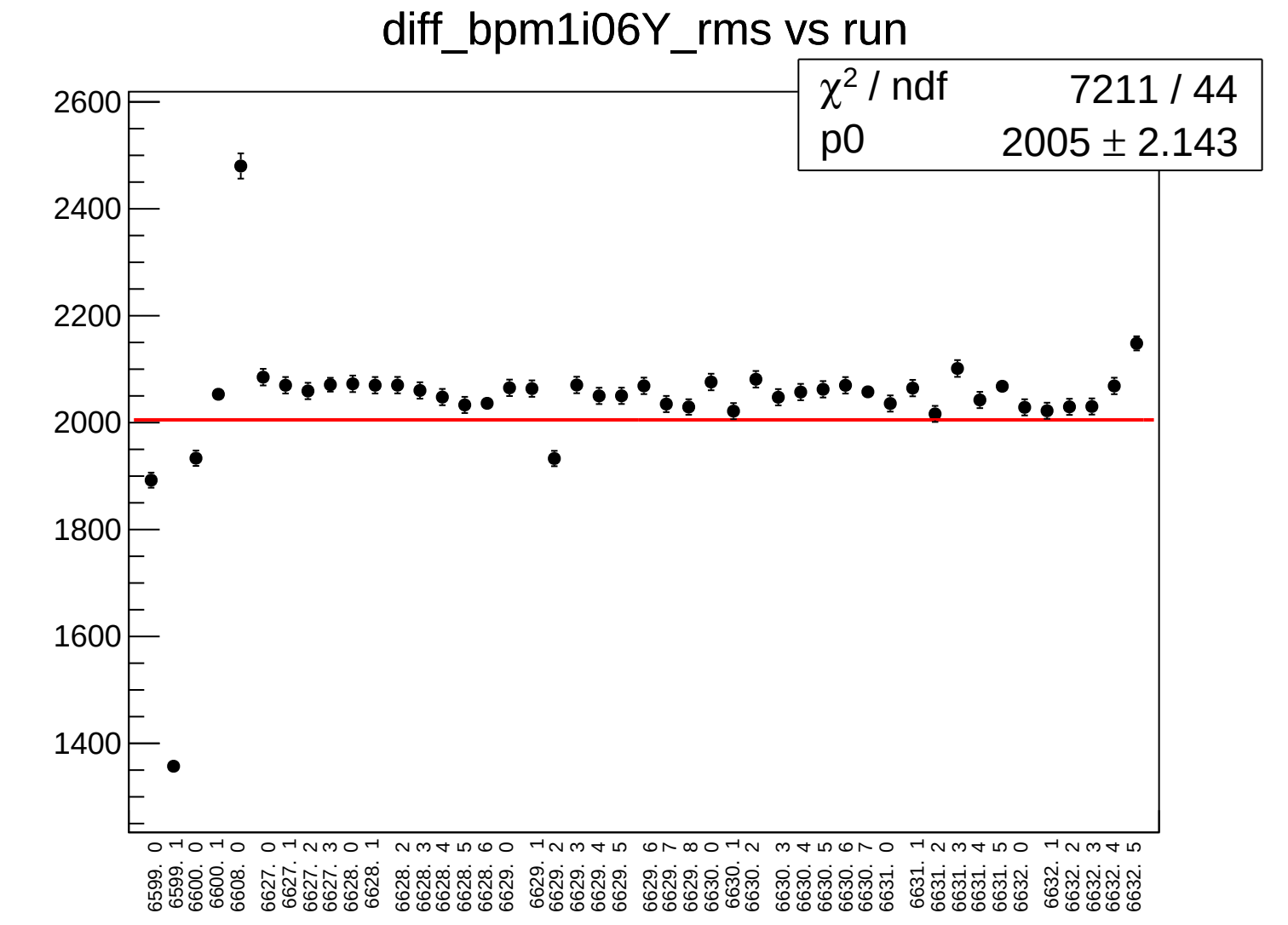

diff_bpm1i04Y_rms vs run
χ² / ndf 9355 / 44
p0 899.9 ± 0.9631
1000
950
900
850
800
750
700
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

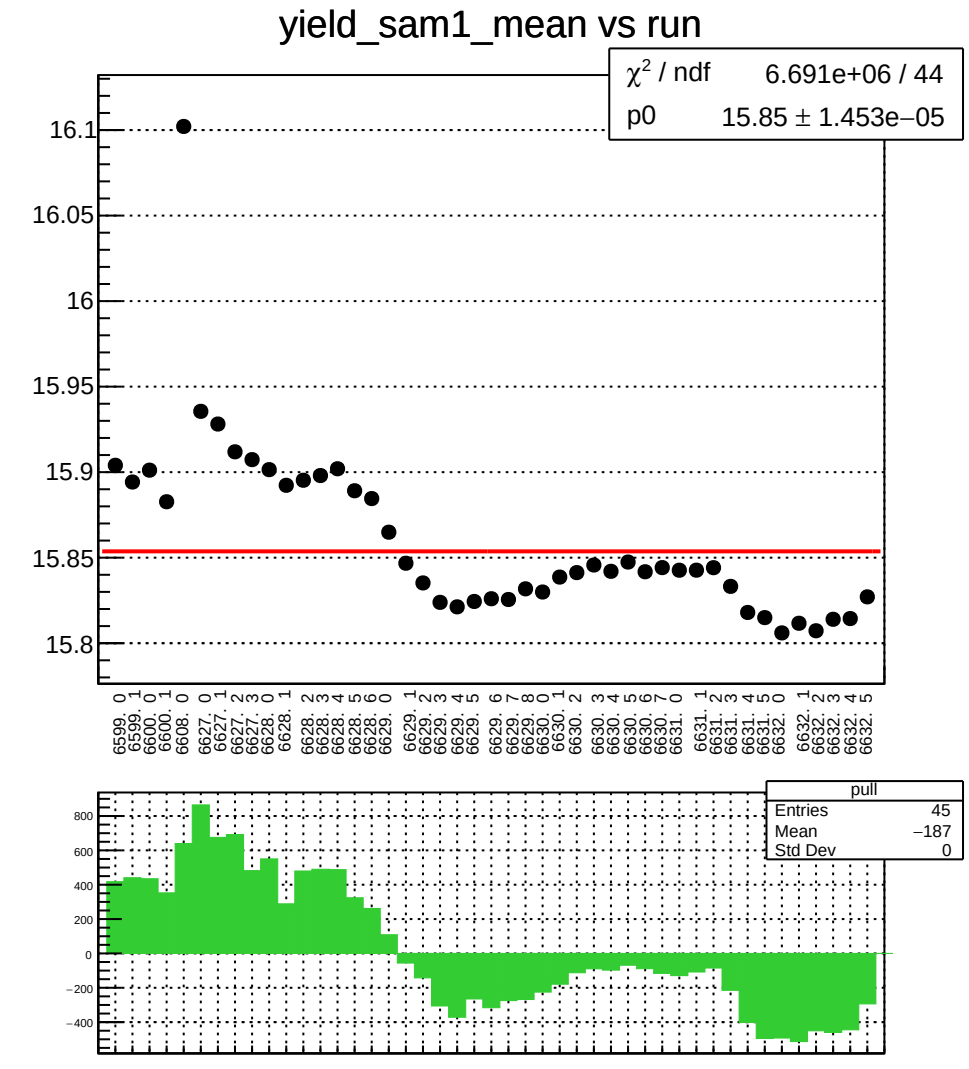

diff_bpm1i06X_mean vs run
χ² / ndf 41.82 / 44
p0 1.638 ± 2.377
40
20
0
−20
−40
−60
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −28.12
Std Dev 45.4
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.006175
Std Dev 0.964
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

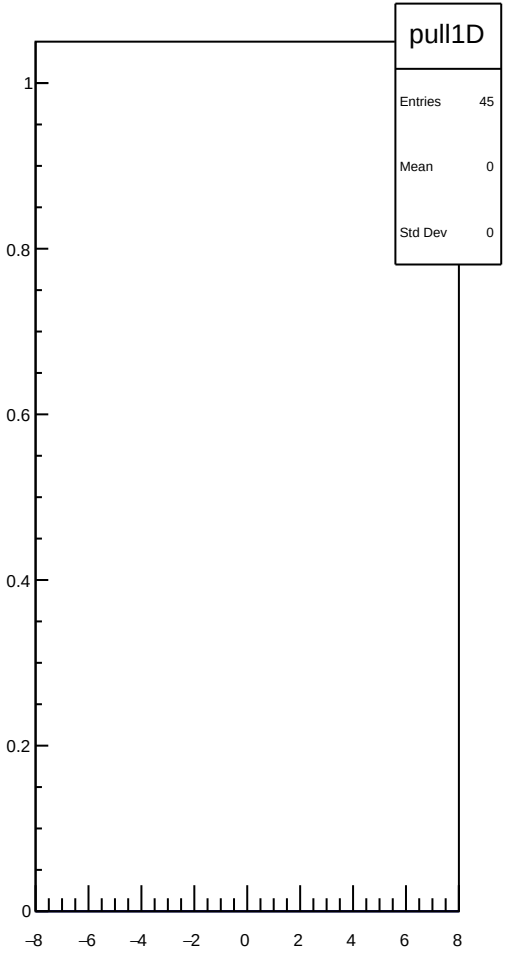

diff_bpm1i06X_rms vs run
χ² / ndf 1441 / 44
p0 1578 ± 1.681
1900
1800
1700
1600
1500
1400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

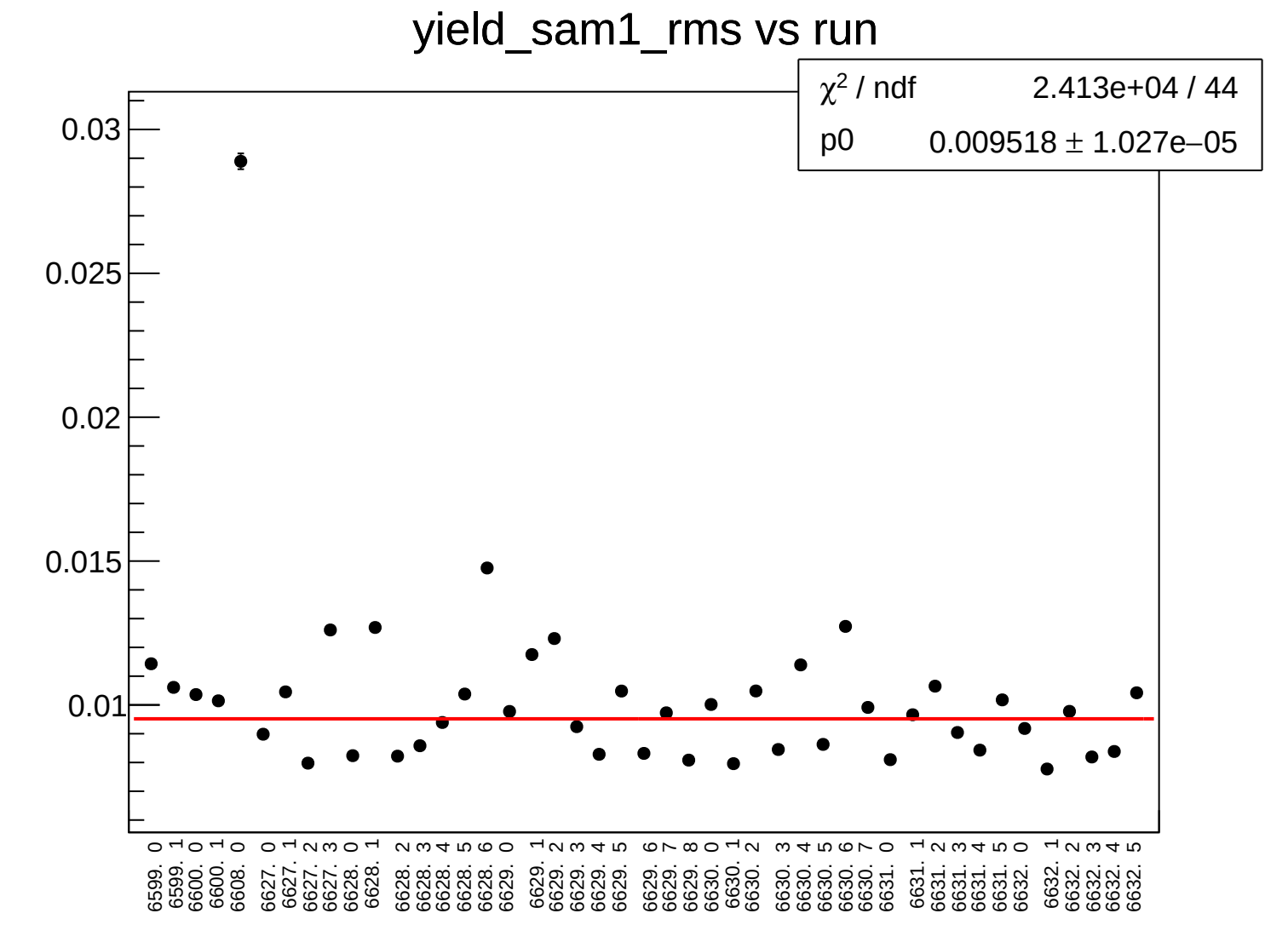

diff_bpm1i06Y_mean vs run
χ² / ndf 51.79 / 44
p0 −7.94 ± 3.031
60
40
20
0
−20
−40
−60
−80
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −19.83
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

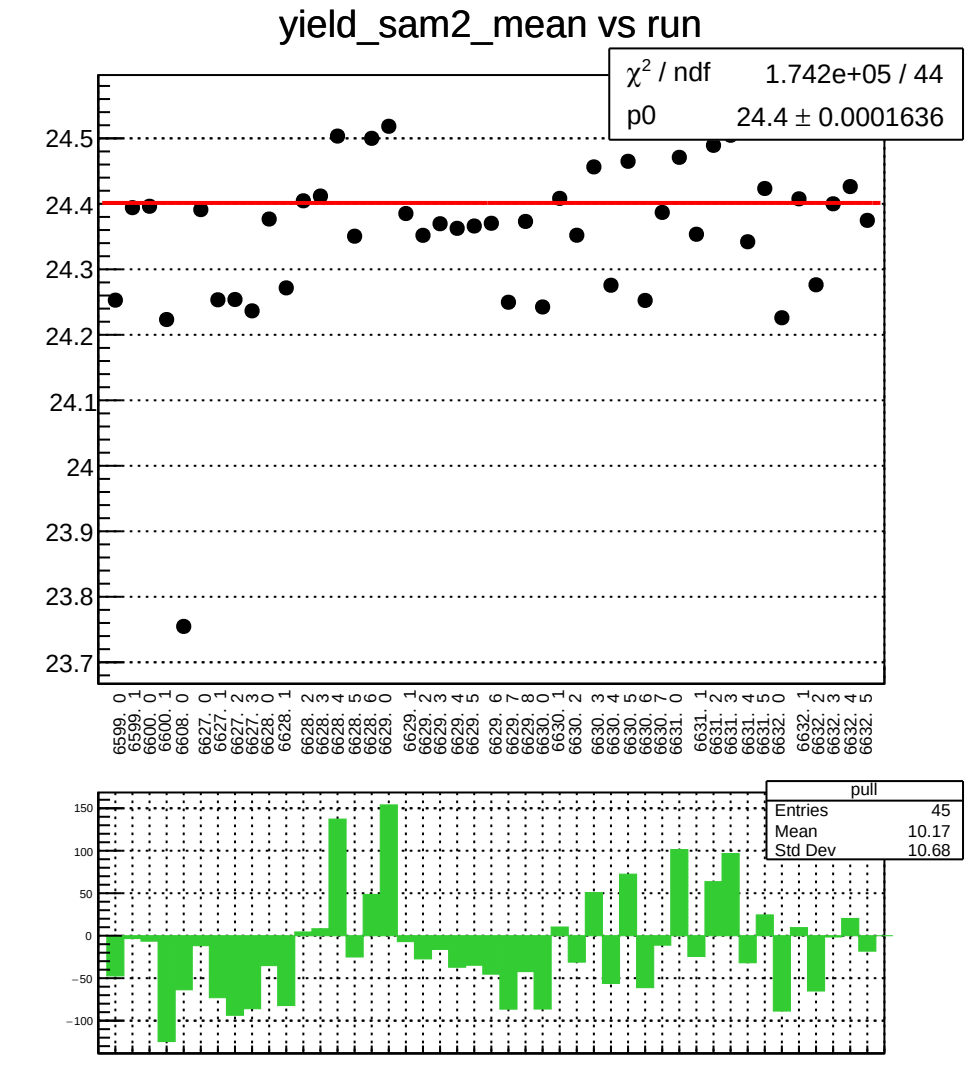

pull1D
Entries 45
Mean −0.02251
Std Dev 1.073
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

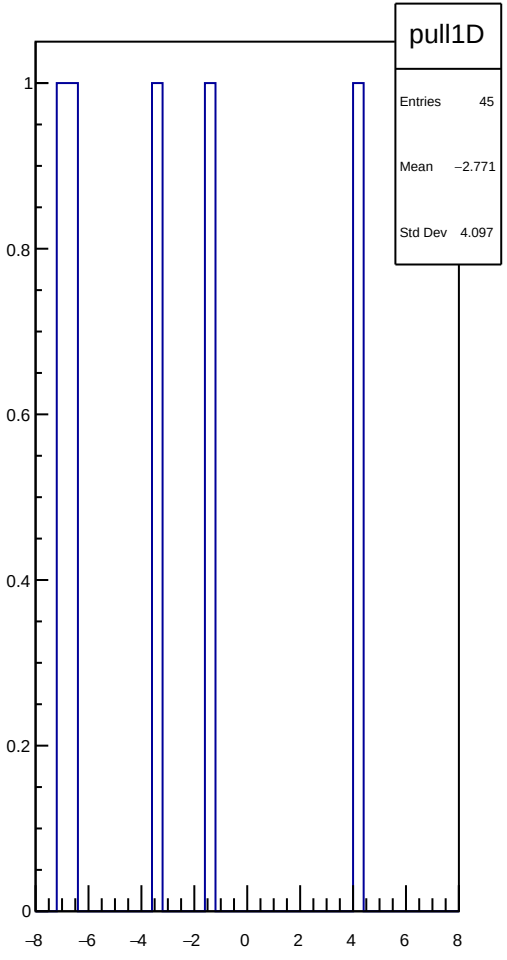

diff_bpm1i06Y_rms vs run
χ² / ndf 7211 / 44
p0 2005 ± 2.143
2600
2400
2200
2000
1800
1600
1400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

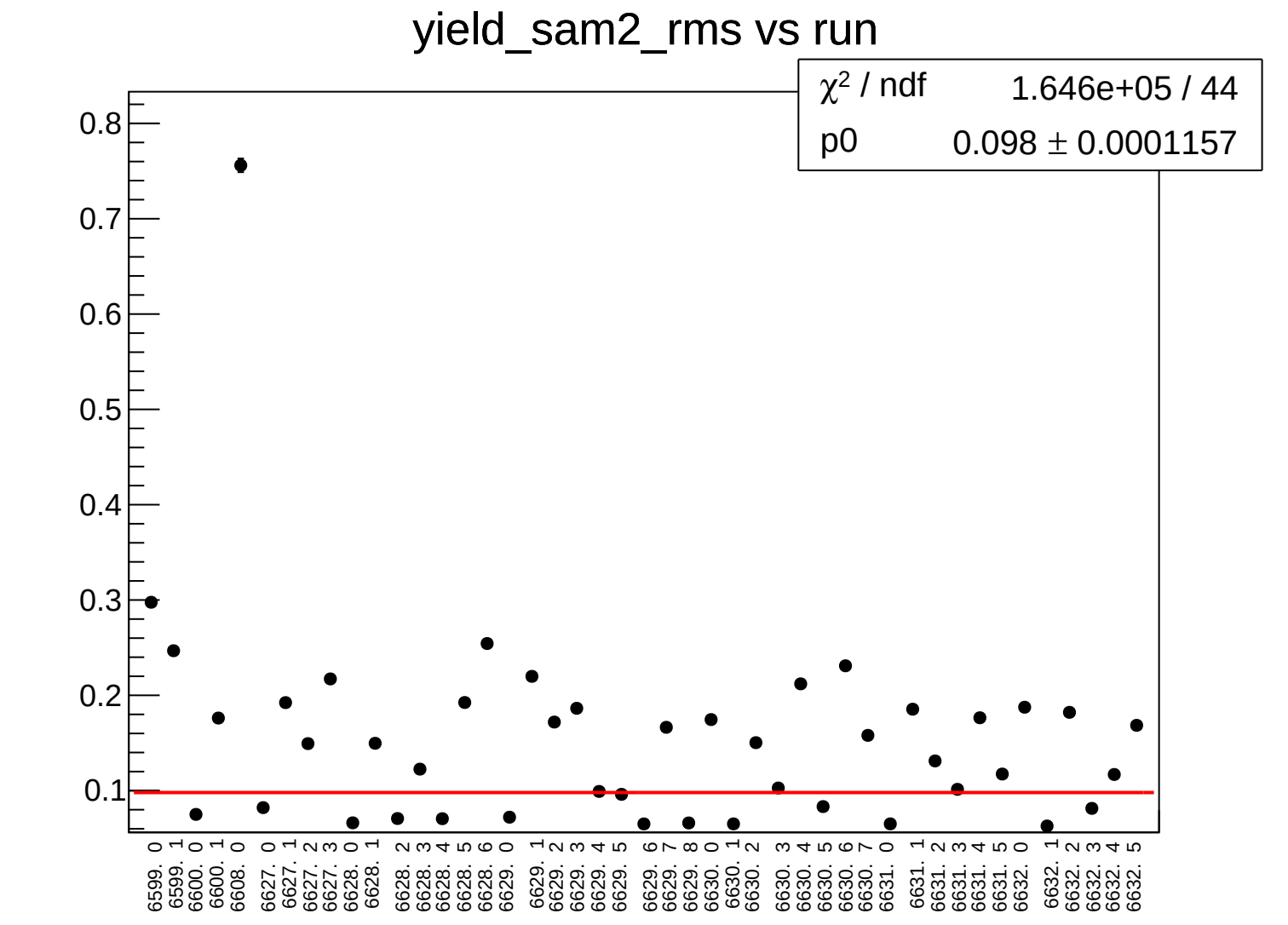

yield_sam1_mean vs run
χ² / ndf 6.691e+06 / 44
p0 15.85 ± 1.453e−05
16.1
16.05
16
15.95
15.9
15.85
15.8
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −187
Std Dev 0
800
600
400
200
0
−200
−400

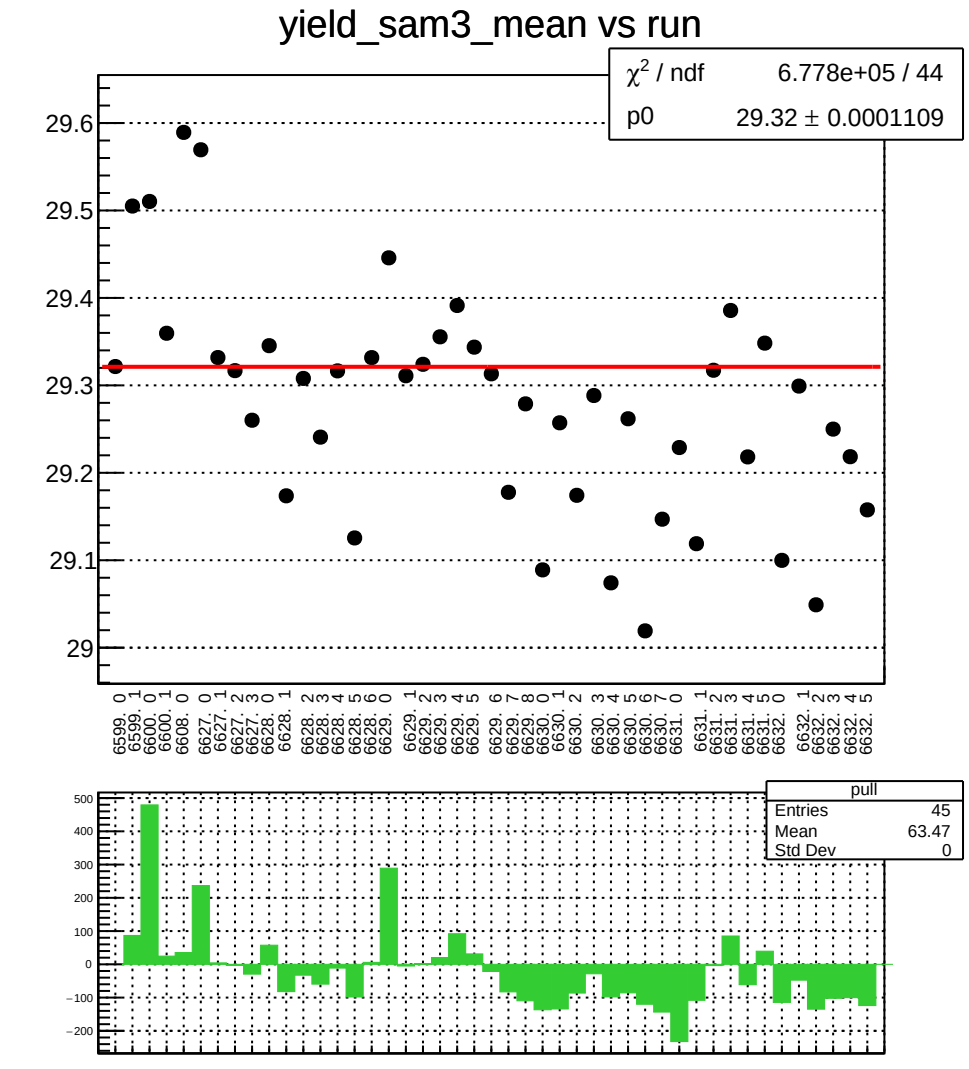

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

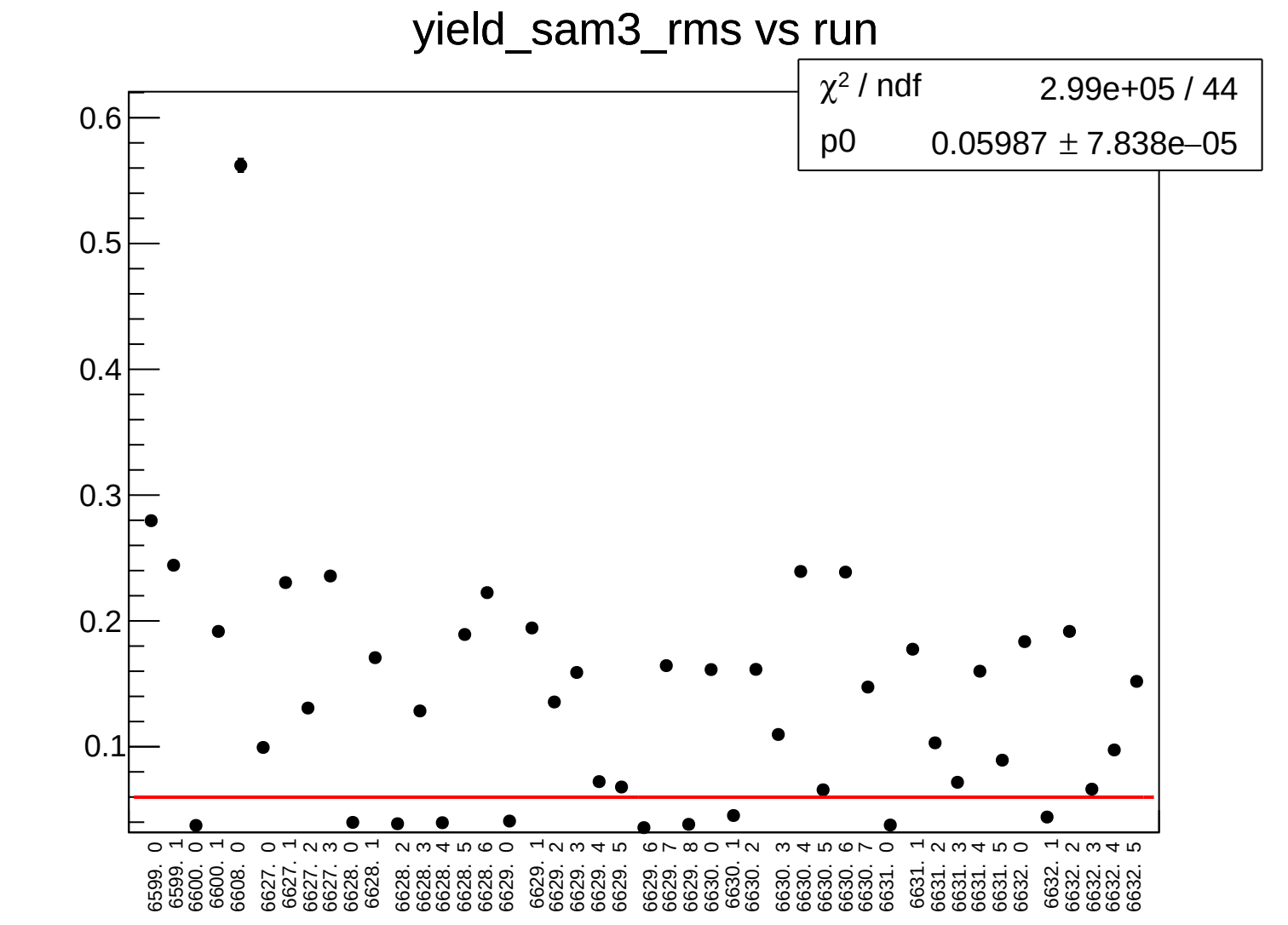

yield_sam1_rms vs run
χ² / ndf 2.413e+04 / 44
p0 0.009518 ± 1.027e−05
0.03
0.025
0.02
0.015
0.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


yield_sam2_mean vs run
χ² / ndf 1.742e+05 / 44
p0 24.4 ± 0.0001636
24.5
24.4
24.3
24.2
24.1
24
23.9
23.8
23.7
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 10.17
Std Dev 10.68
150
100
50
0
−50
−100


pull1D
Entries 45
Mean −2.771
Std Dev 4.097
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 1.646e+05 / 44
p0 0.098 ± 0.0001157
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


yield_sam3_mean vs run
χ² / ndf 6.778e+05 / 44
p0 29.32 ± 0.0001109
29.6
29.5
29.4
29.3
29.2
29.1
29
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 63.47
Std Dev 0
500
400
300
200
100
0
−100
−200
pull1D
Entries 45
Mean 0.06746
Std Dev 3.894
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 2.99e+05 / 44
p0 0.05987 ± 7.838e–05
0.6
0.5
0.4
0.3
0.2
0.1
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
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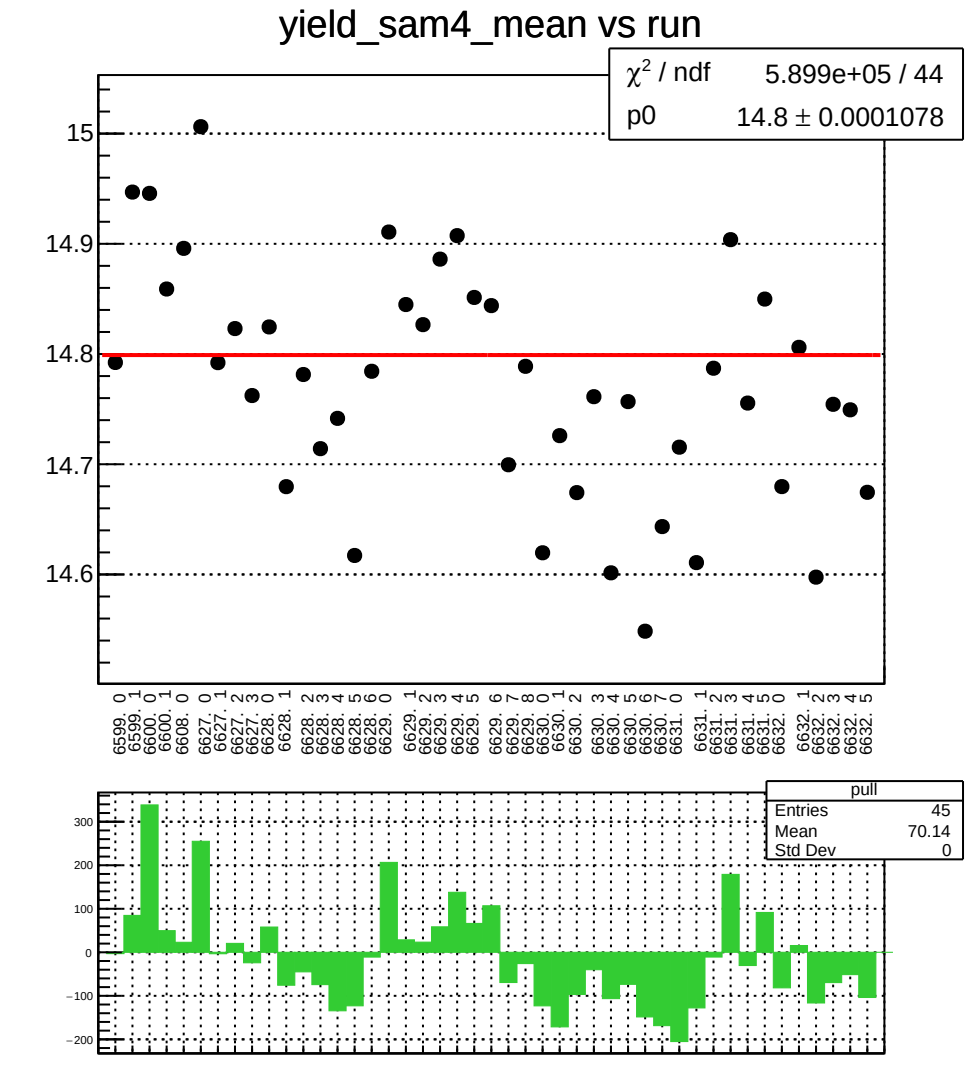
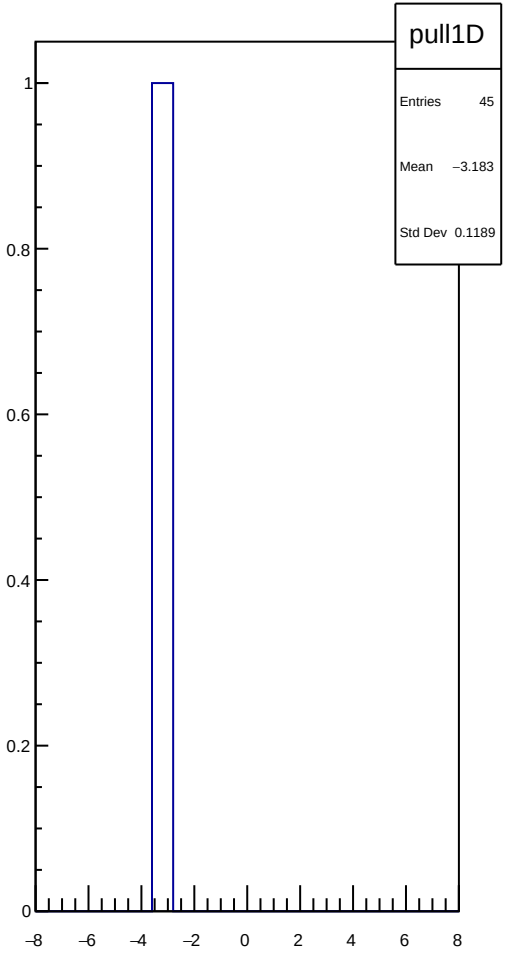
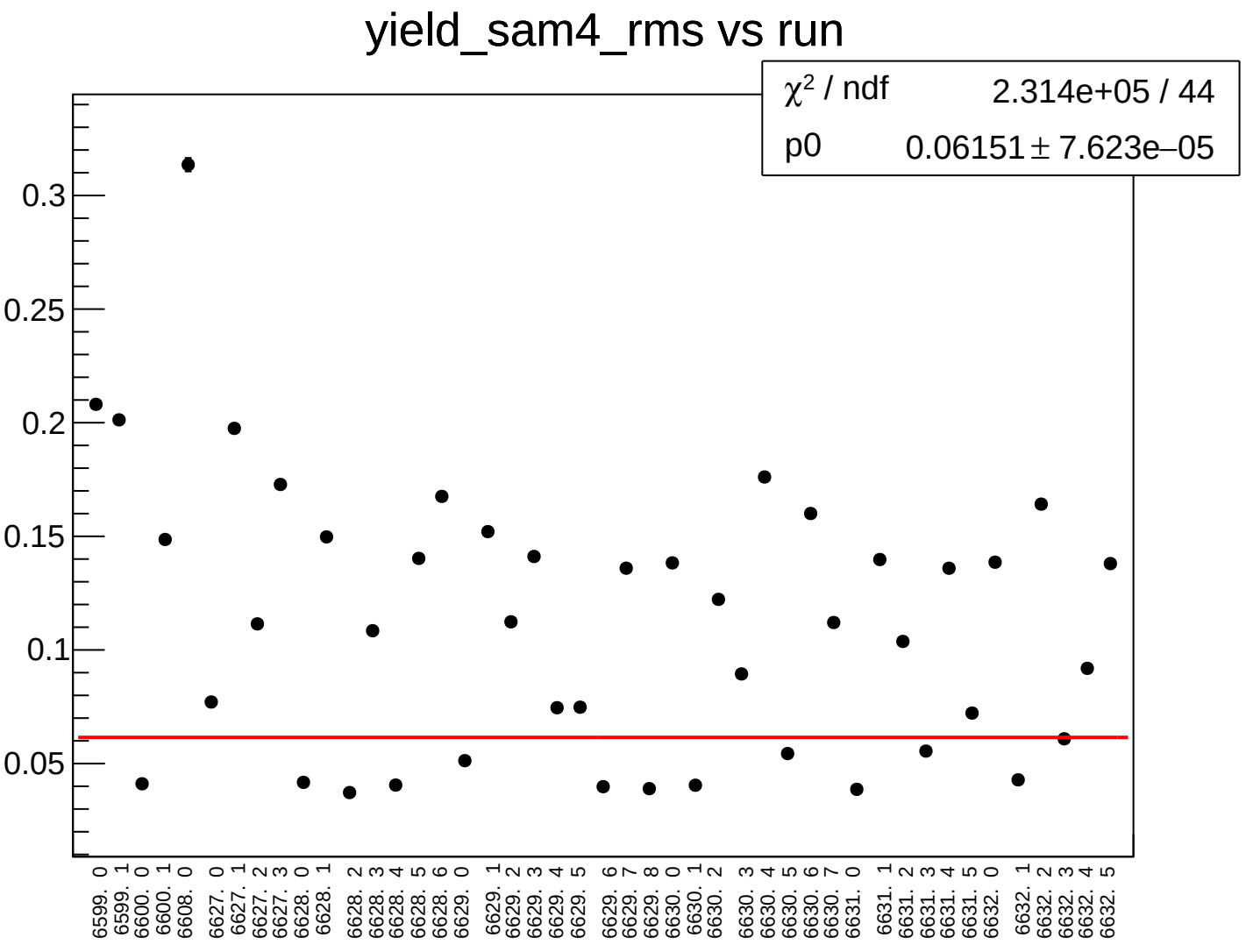
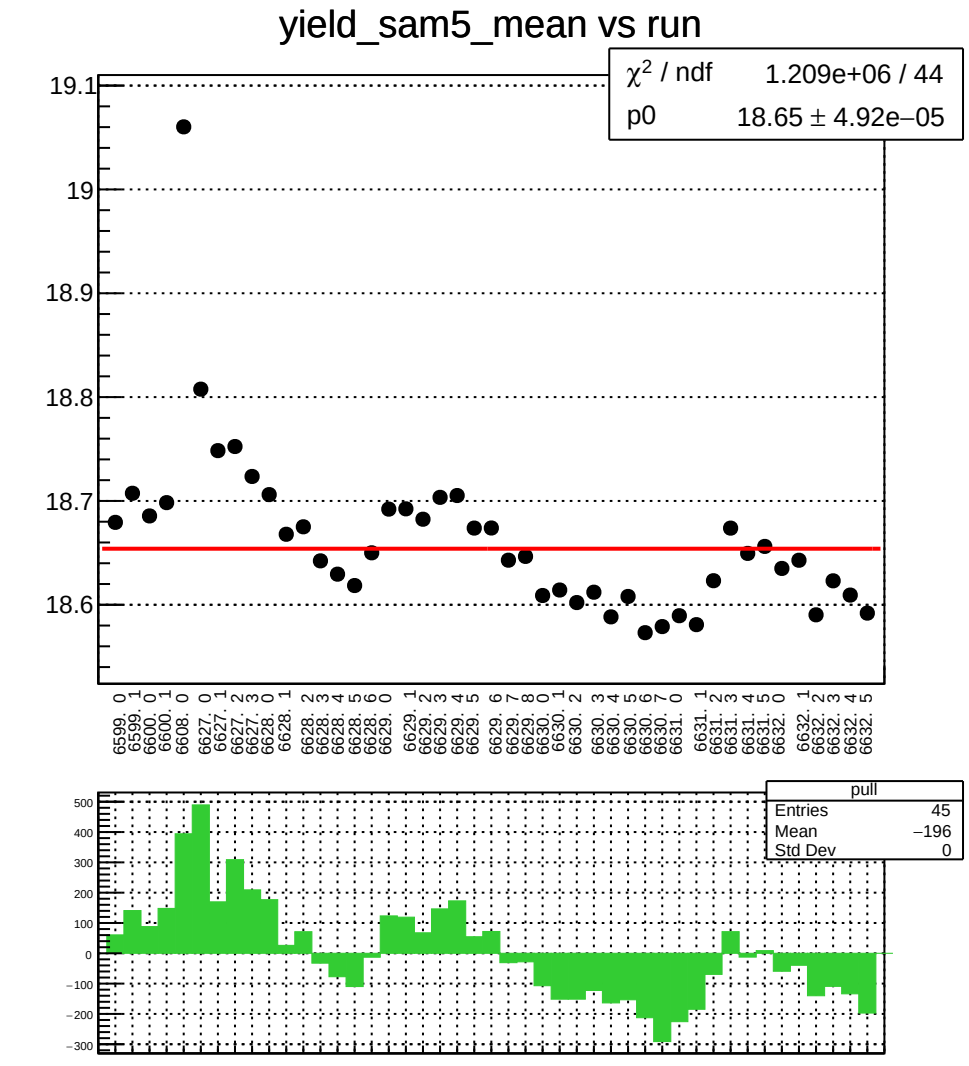
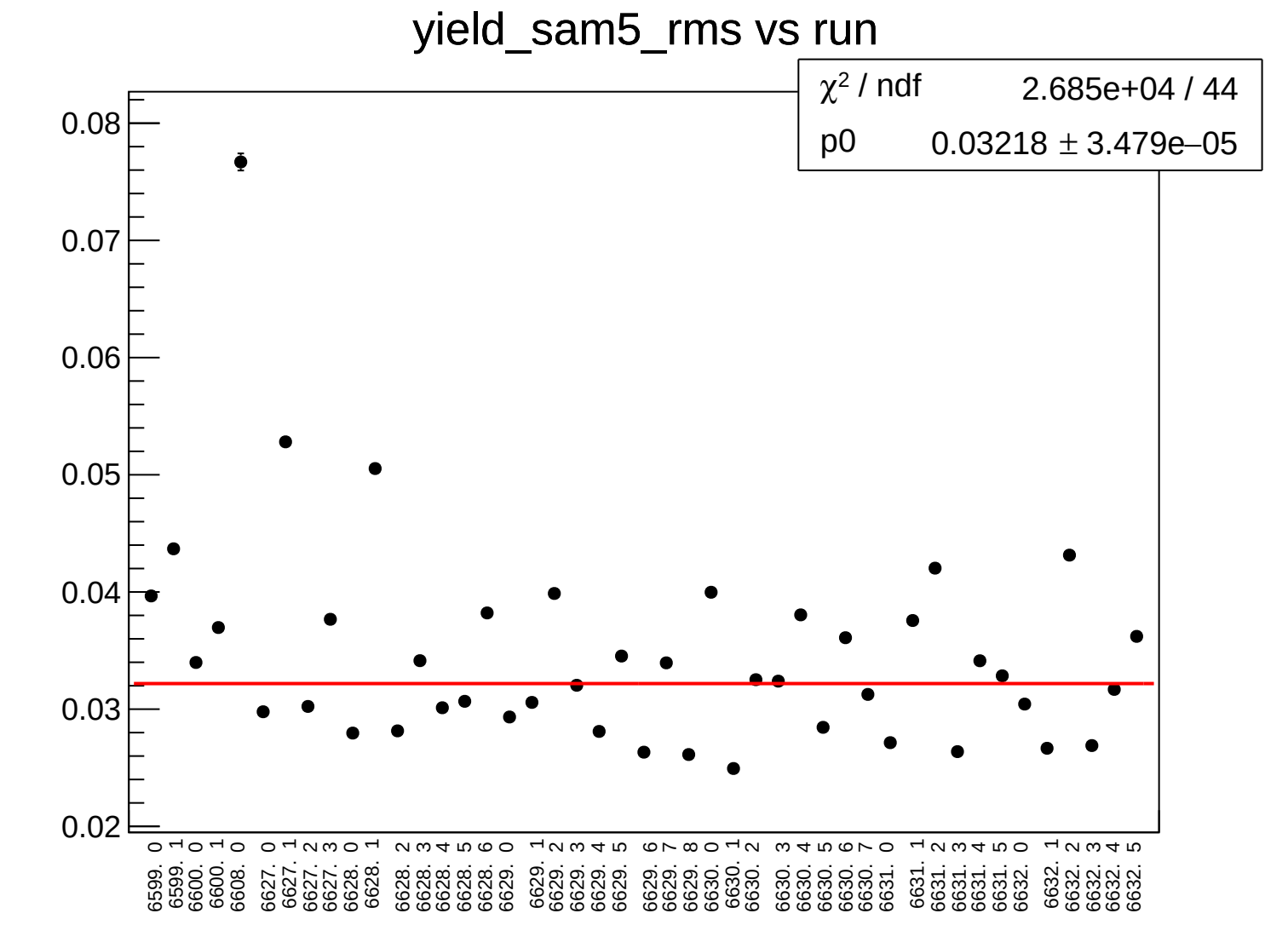
6632. 2
6632. 3
6632. 4
6632. 5

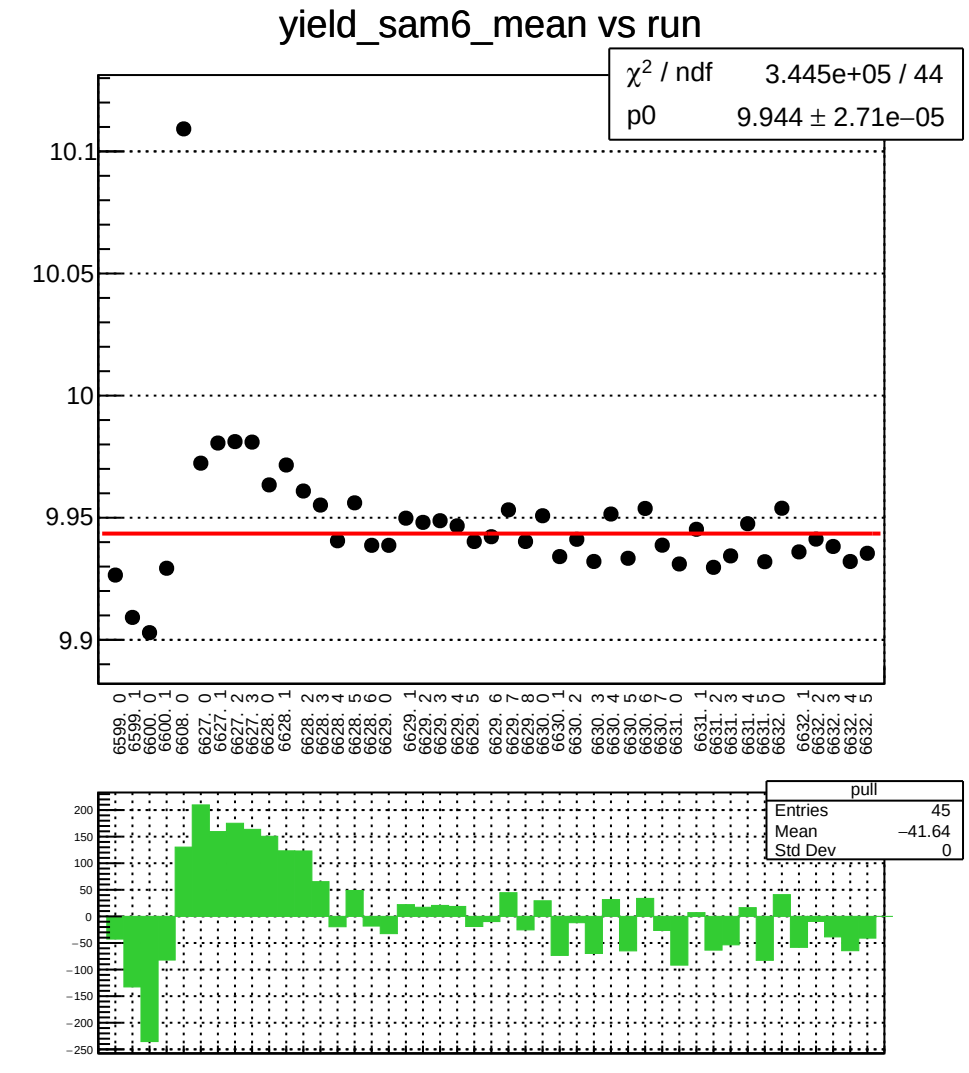

yield_sam4_mean vs run
χ² / ndf 5.899e+05 / 44
p0 14.8 ± 0.0001078
15
14.9
14.8
14.7
14.6
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 70.14
Std Dev 0
300
200
100
0
−100
−200

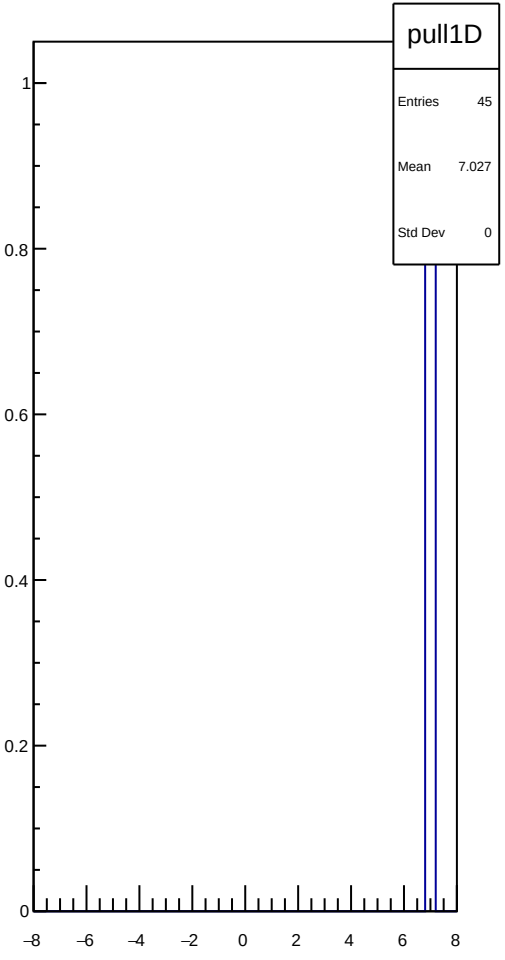

pull1D
Entries 45
Mean −3.183
Std Dev 0.1189
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

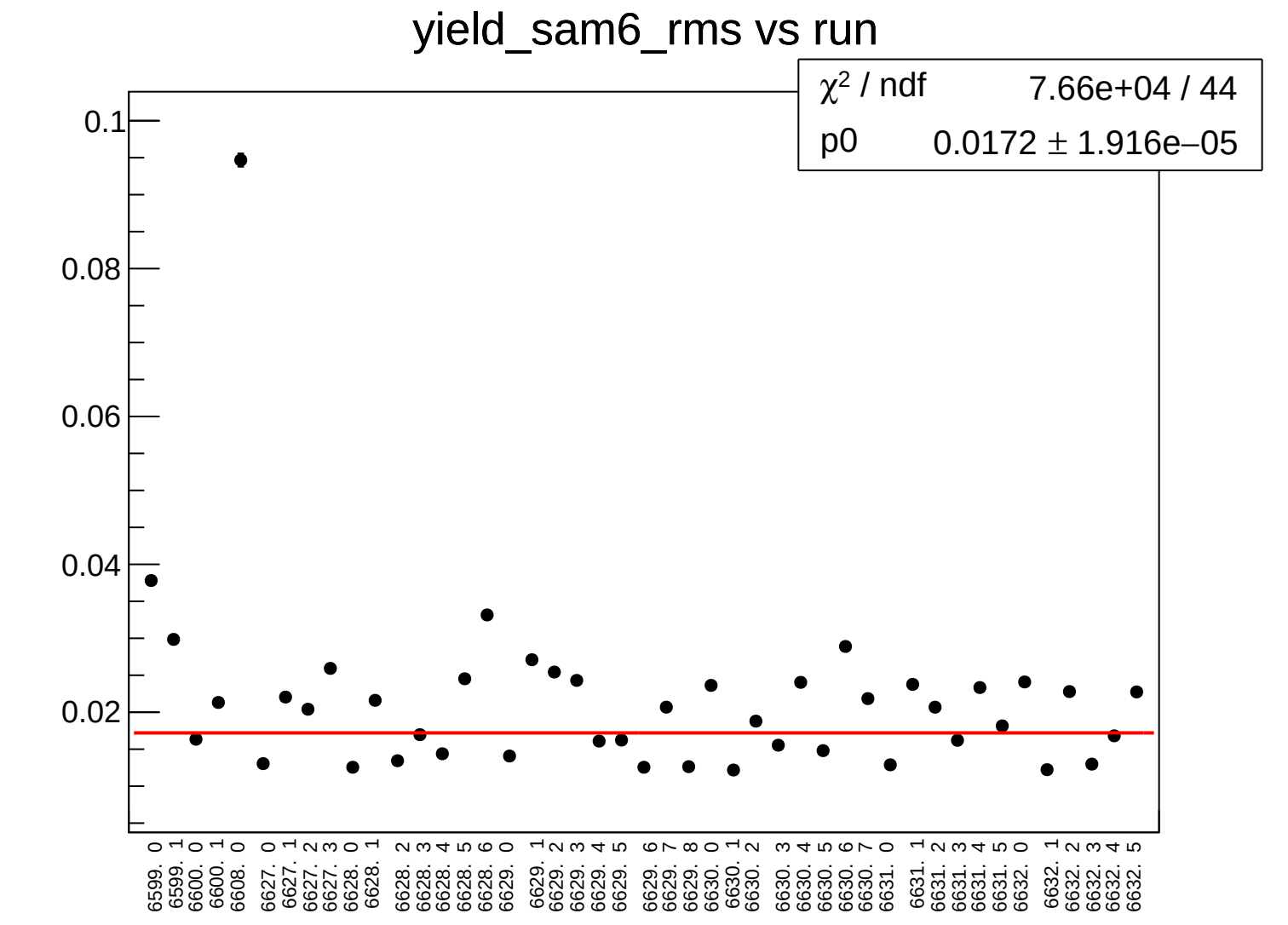

yield_sam4_rms vs run
χ² / ndf 2.314e+05 / 44
p0 0.06151 ± 7.623e–05
0.3
0.25
0.2
0.15
0.1
0.05
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

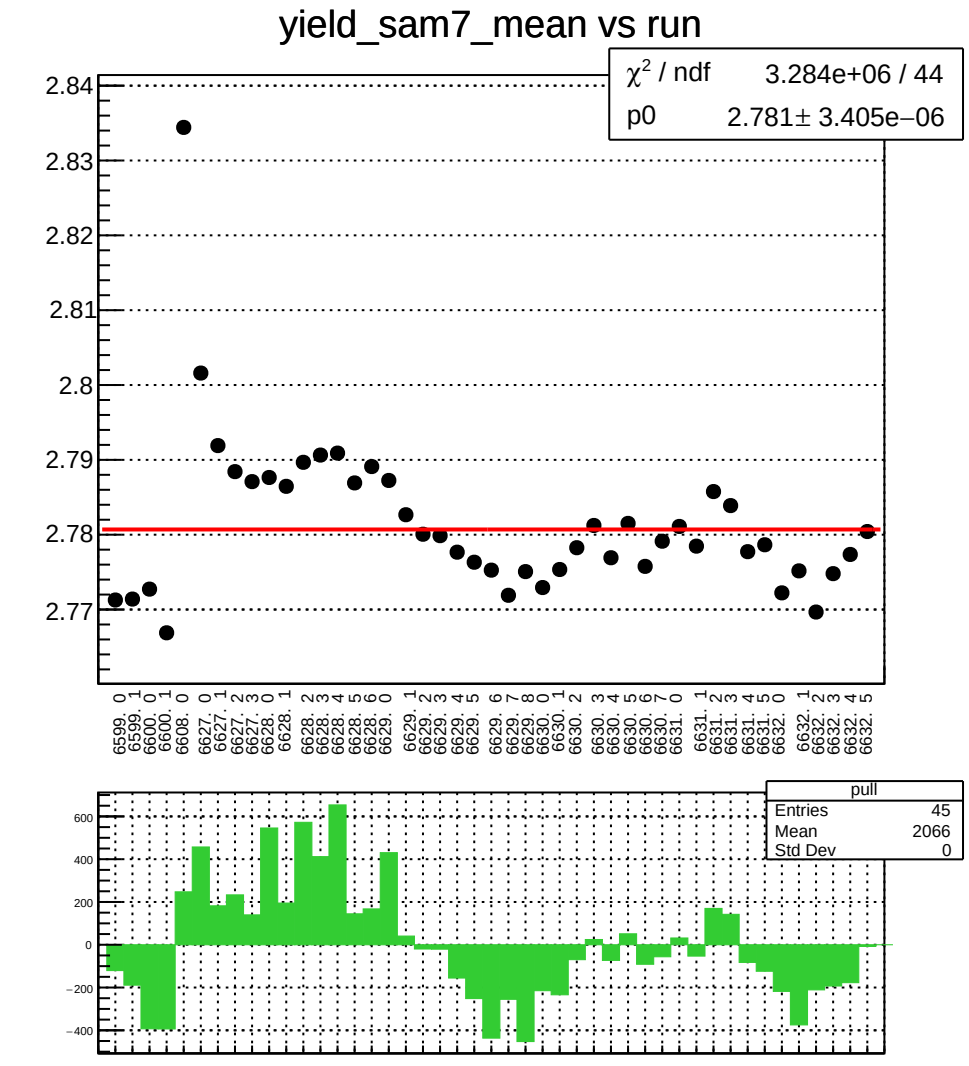

yield_sam5_mean vs run
χ² / ndf 1.209e+06 / 44
p0 18.65 ± 4.92e−05
19.1
19
18.9
18.8
18.7
18.6
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −196
Std Dev 0
500
400
300
200
100
0
−100
−200
−300
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

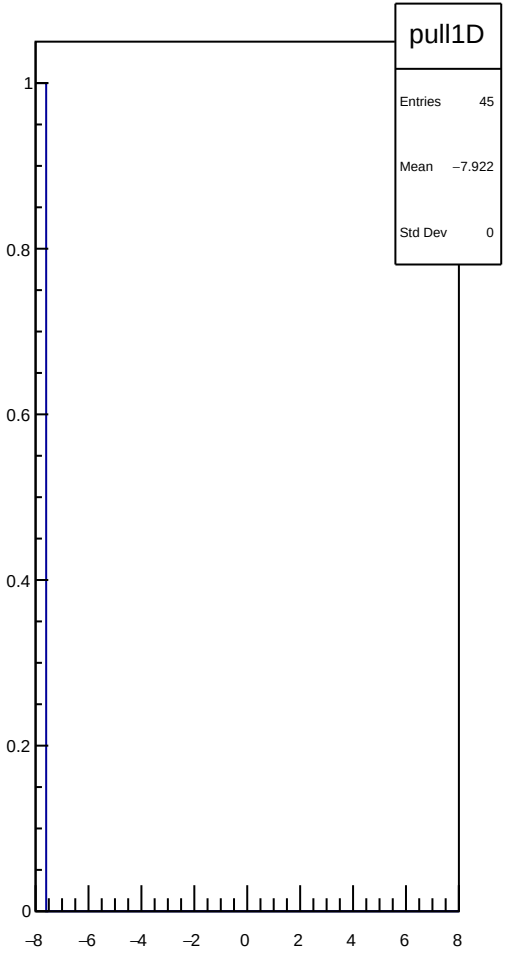

yield_sam5_rms vs run
χ² / ndf 2.685e+04 / 44
p0 0.03218 ± 3.479e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

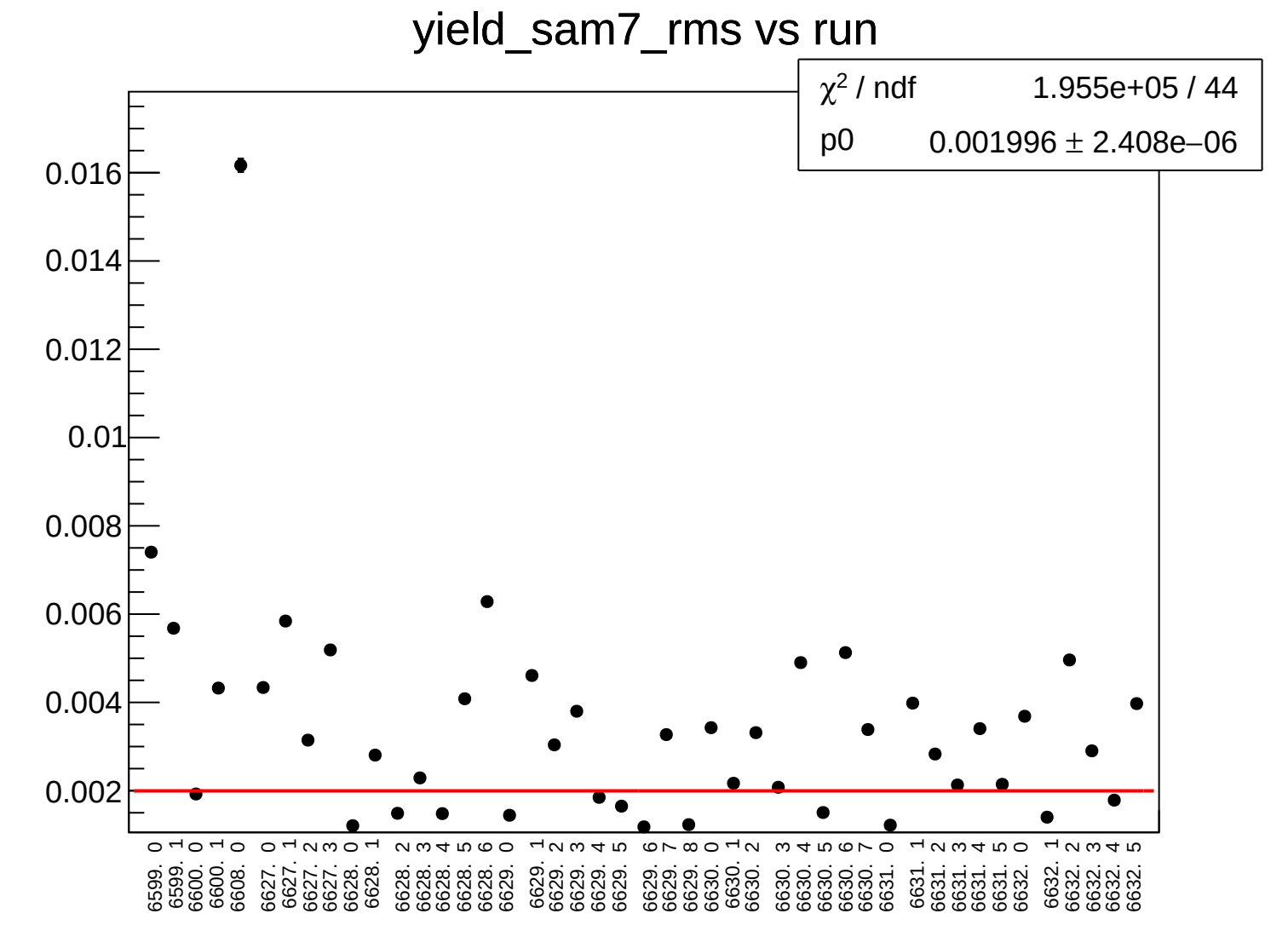

yield_sam6_mean vs run
χ² / ndf 3.445e+05 / 44
p0 9.944 ± 2.71e−05
10.1
10.05
10
9.95
9.9
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −41.64
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
−250


pull1D
Entries 45
Mean 7.027
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 7.66e+04 / 44
p0 0.0172 ± 1.916e−05
0.1
0.08
0.06
0.04
0.02
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


yield_sam7_mean vs run
χ² / ndf 3.284e+06 / 44
p0 2.781± 3.405e−06
2.84
2.83
2.82
2.81
2.8
2.79
2.78
2.77
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 2066
Std Dev 0
600
400
200
0
−200
−400


pull1D
Entries 45
Mean −7.922
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_sam7_rms vs run
χ² / ndf 1.955e+05 / 44
p0 0.001996 ± 2.408e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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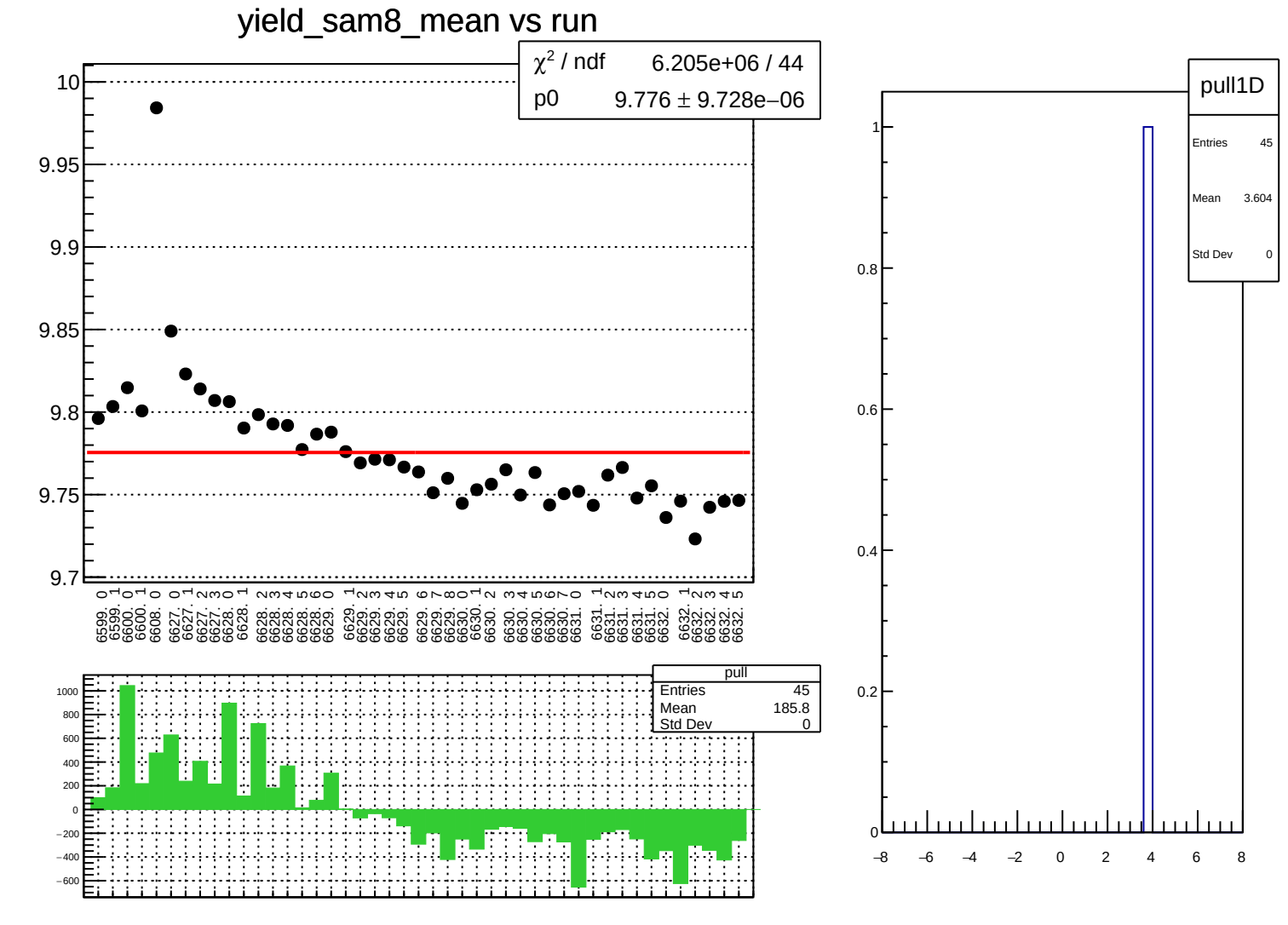
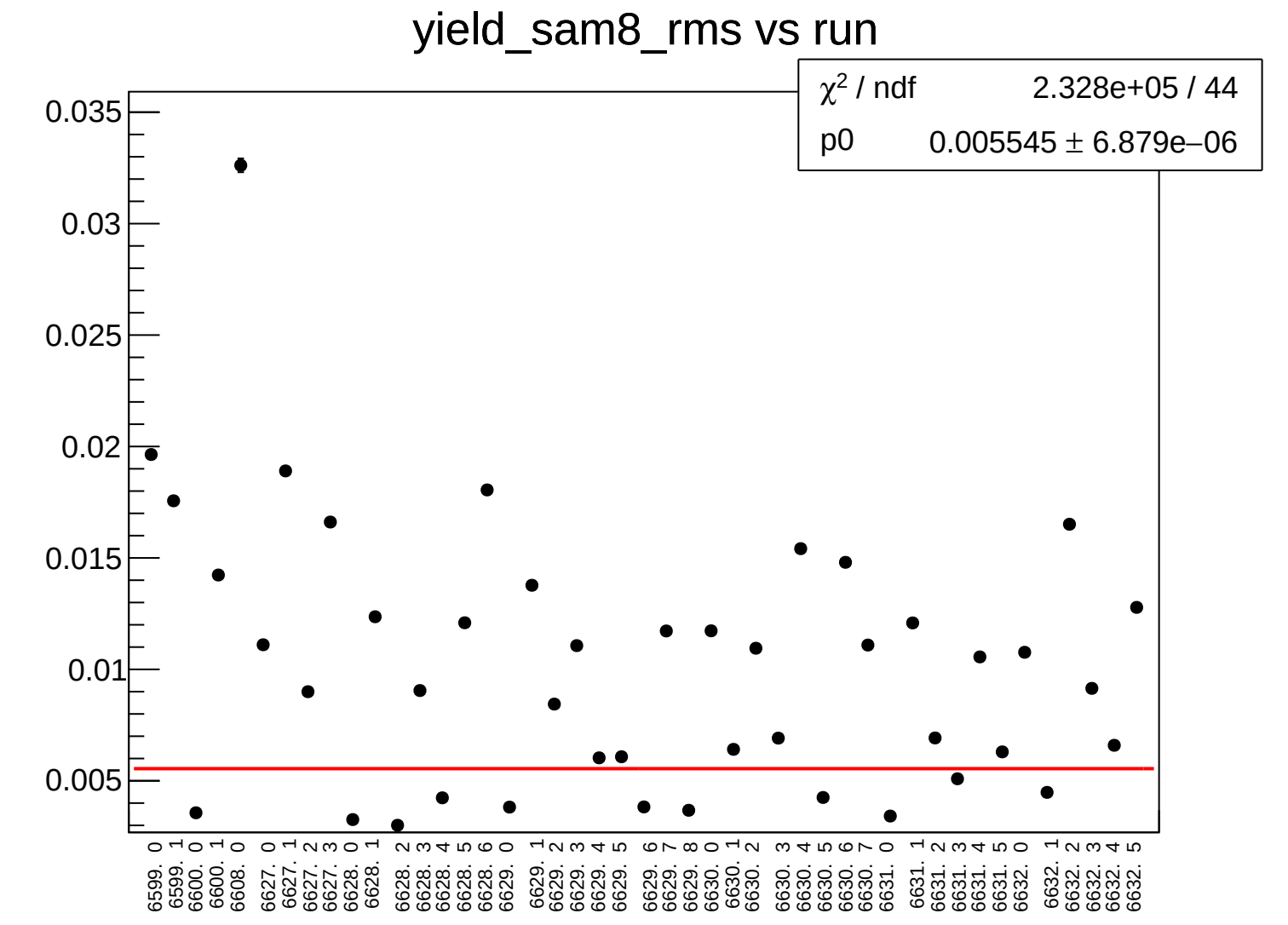
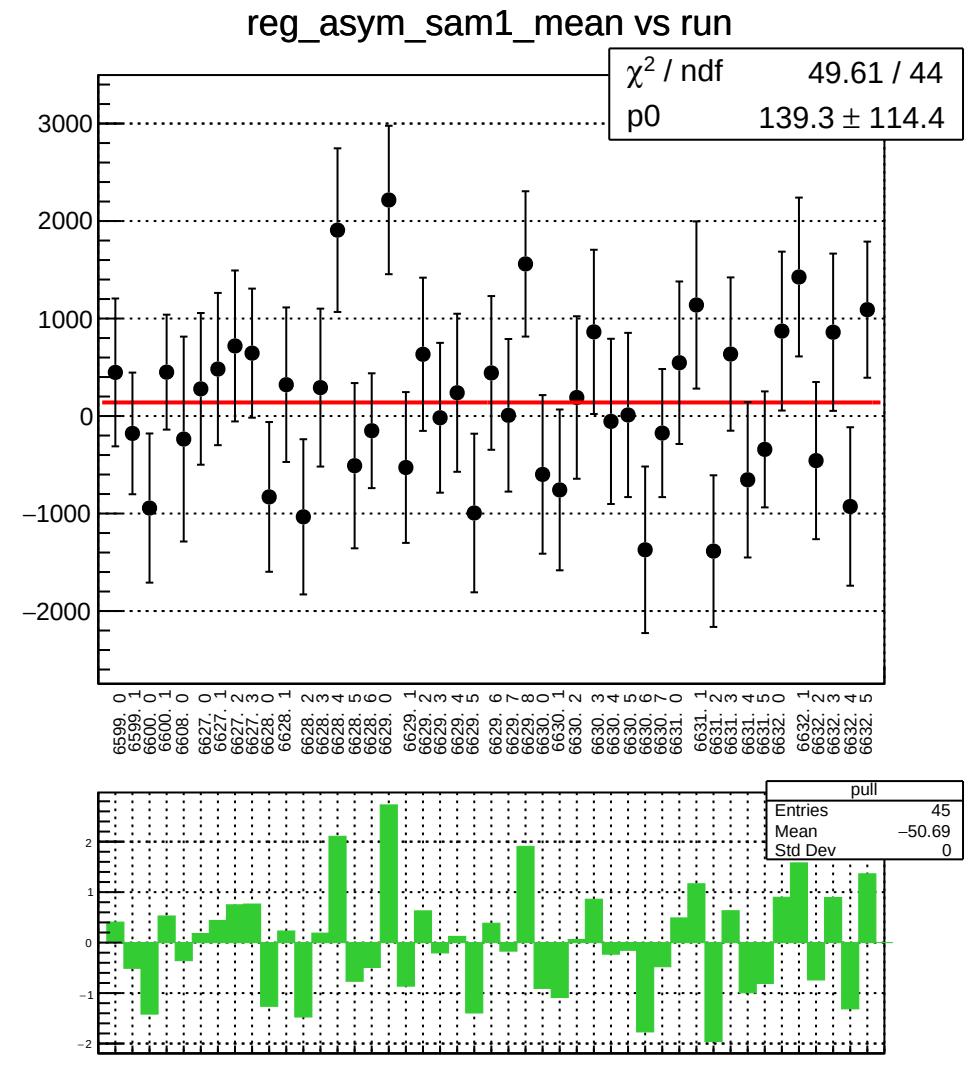
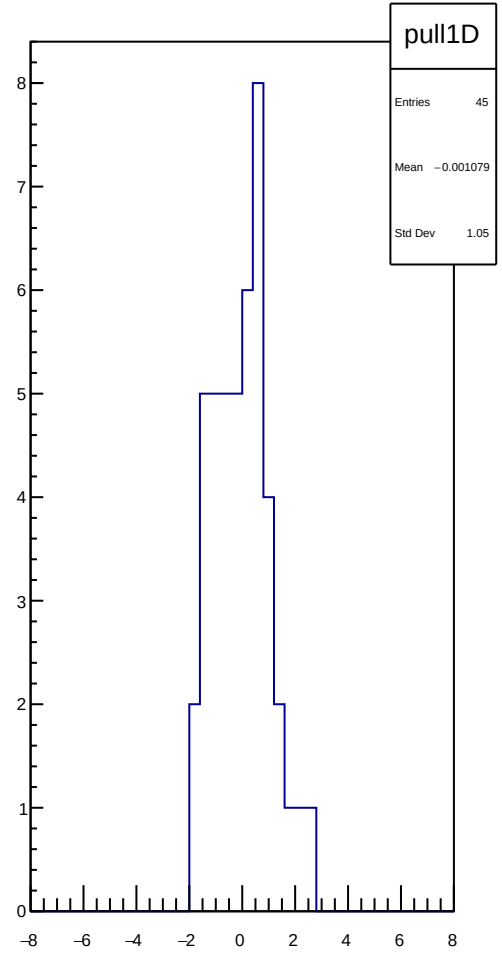
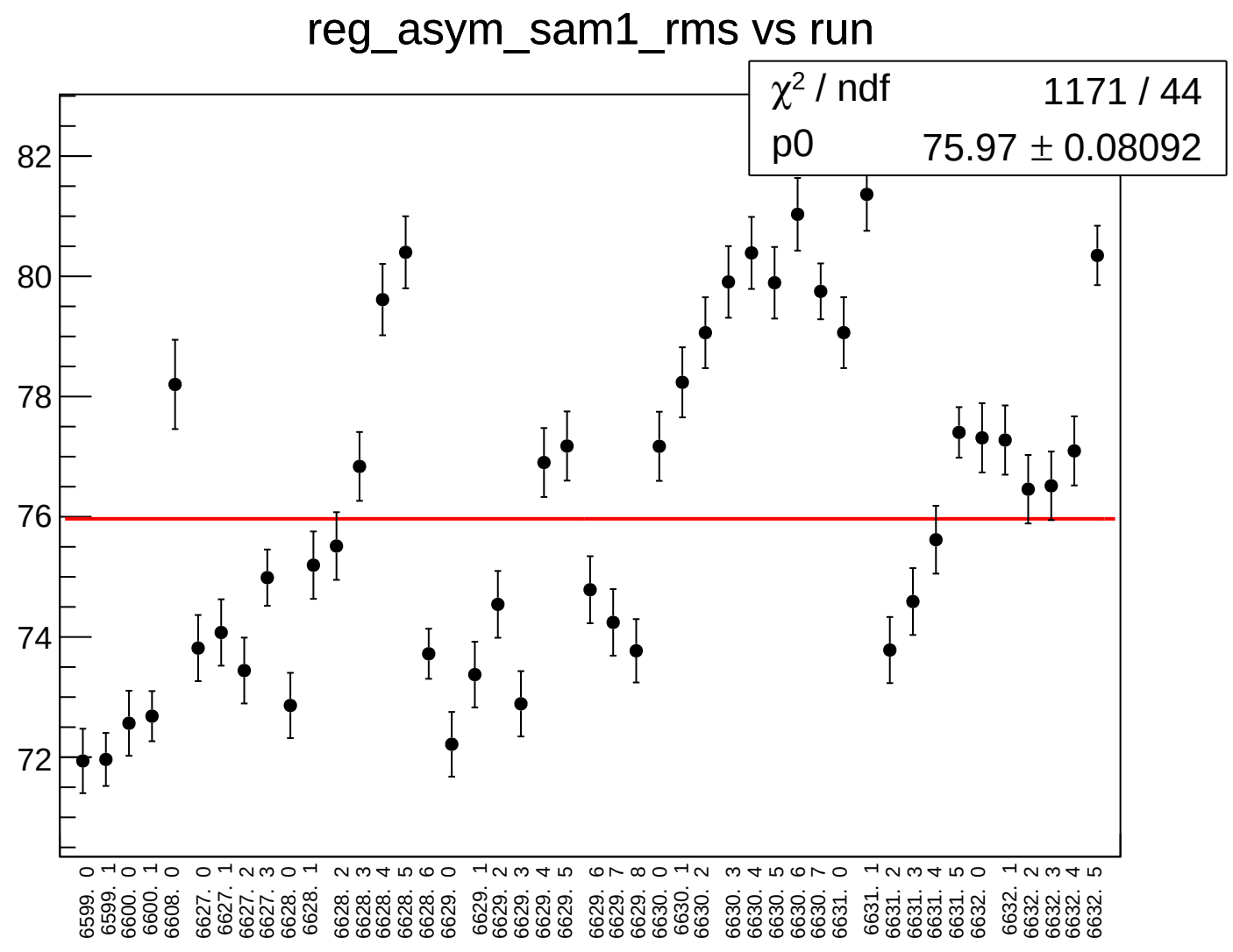
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


yield_sam8_mean vs run
χ² / ndf 6.205e+06 / 44
p0 9.776 ± 9.728e−06
10
9.95
9.9
9.85
9.8
9.75
9.7
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 185.8
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
pull1D
Entries 45
Mean 3.604
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 2.328e+05 / 44
p0 0.005545 ± 6.879e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


reg_asym_sam1_mean vs run
χ² / ndf 49.61 / 44
p0 139.3 ± 114.4
3000
2000
1000
0
−1000
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −50.69
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.001079
Std Dev 1.05
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam1_rms vs run
χ² / ndf 1171 / 44
p0 75.97 ± 0.08092
82
80
78
76
74
72
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 5
6632. 0
6632. 1
6632. 2
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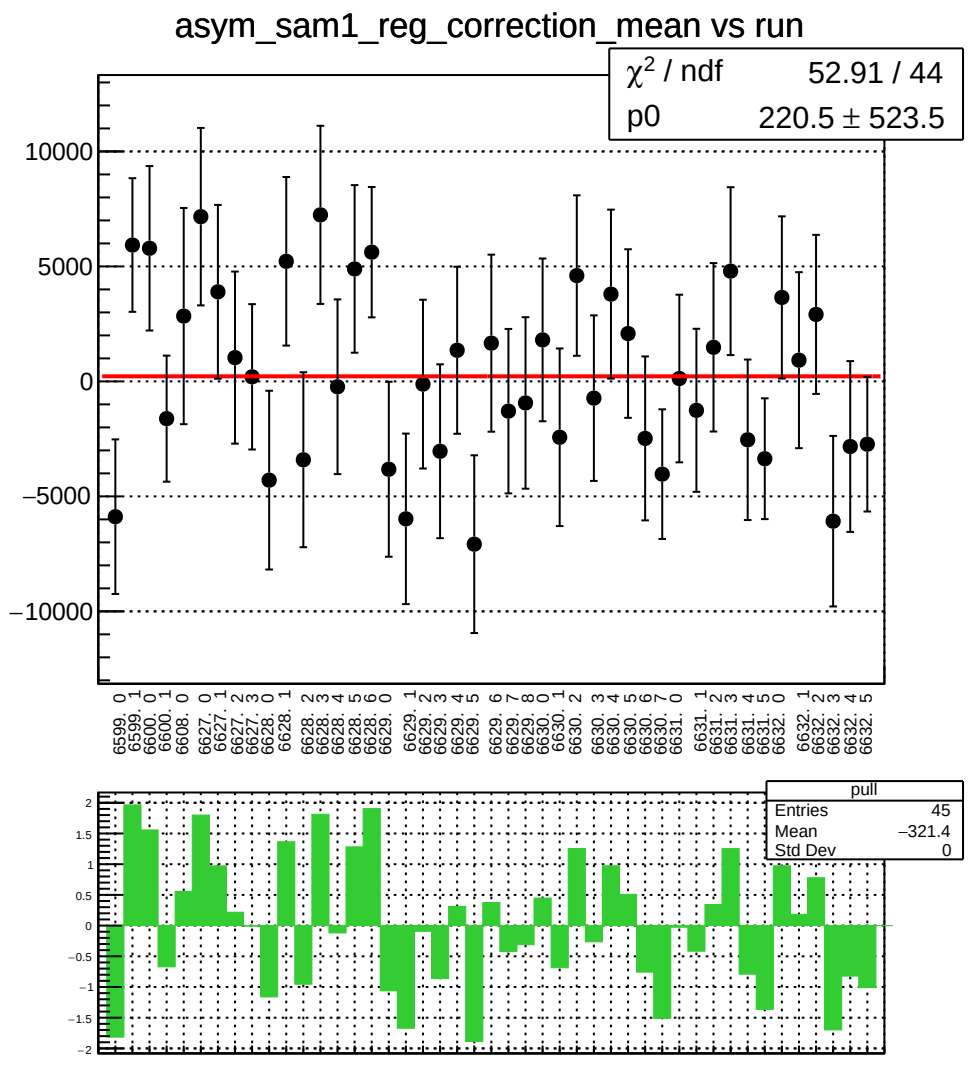
6632. 4
6632. 5


asym_sam1_reg_correction_mean vs run
χ² / ndf 52.91 / 44
p0 220.5 ± 523.5
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −321.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01008
Std Dev 1.084
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−8
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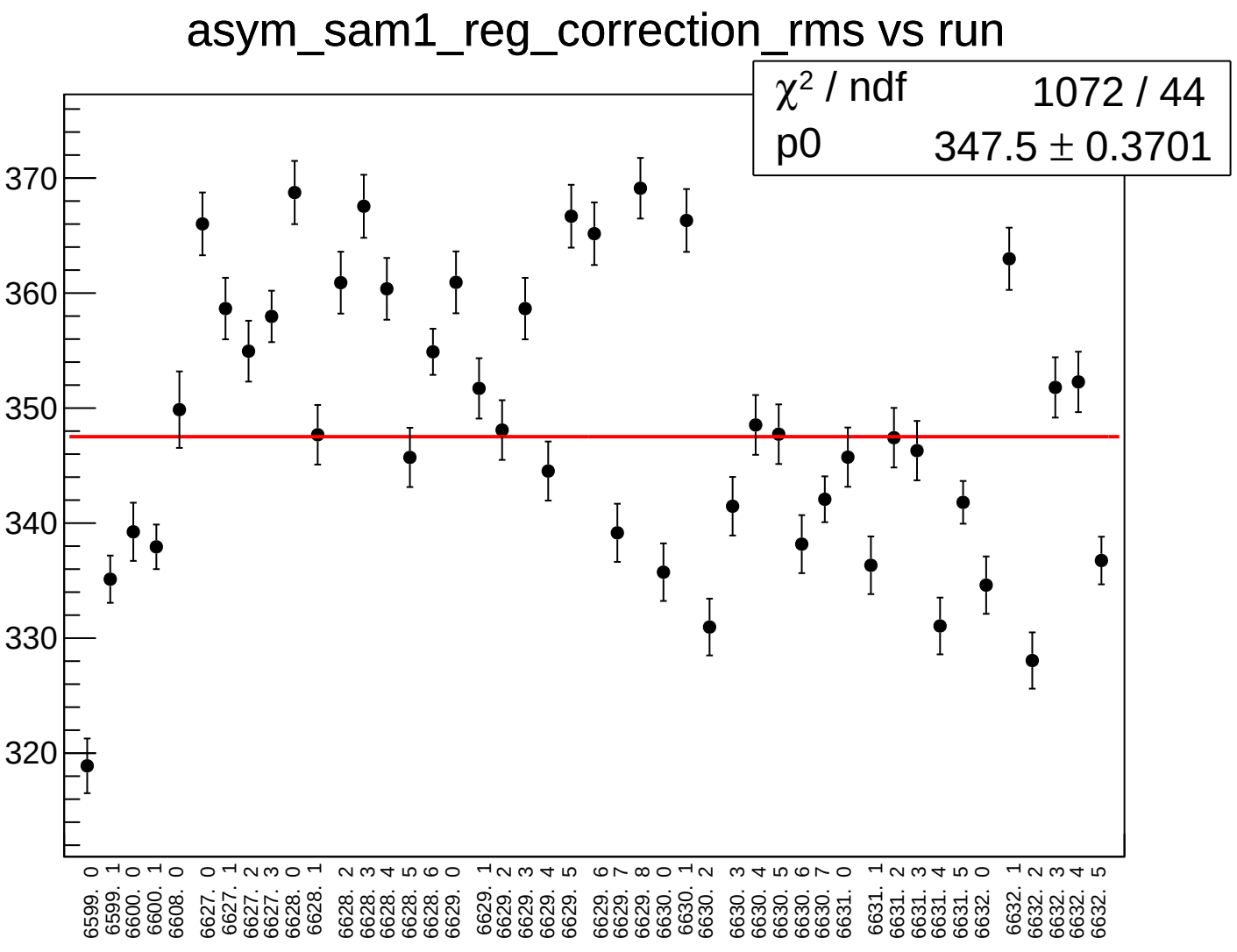
−4
−2
0
2
4
6
8


asym_sam1_reg_correction_rms vs run
χ² / ndf 1072 / 44
p0 347.5 ± 0.3701
370
360
350
340
330
320
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
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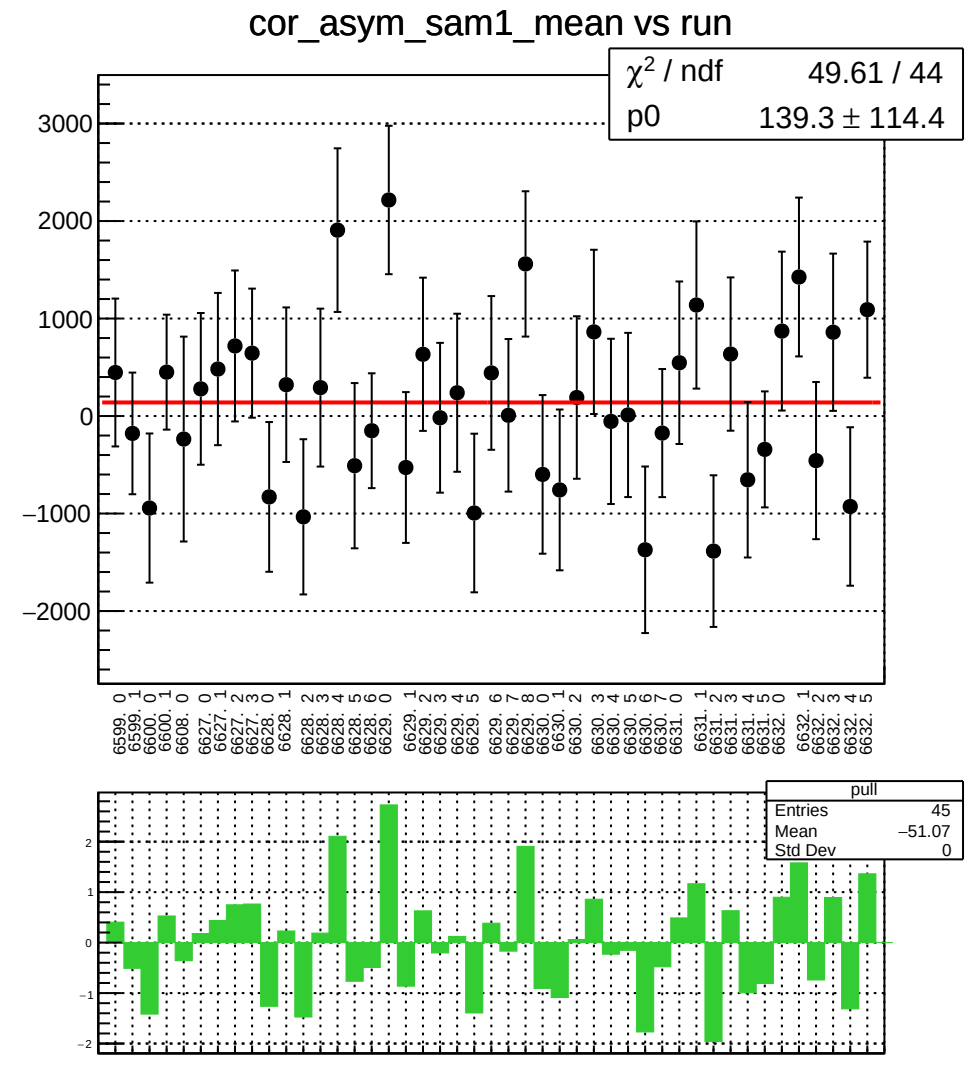
cor_asym_sam1_mean vs run
χ² / ndf 49.61 / 44
p0 139.3 ± 114.4
3000
2000
1000
0
−1000
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
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6629. 6
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
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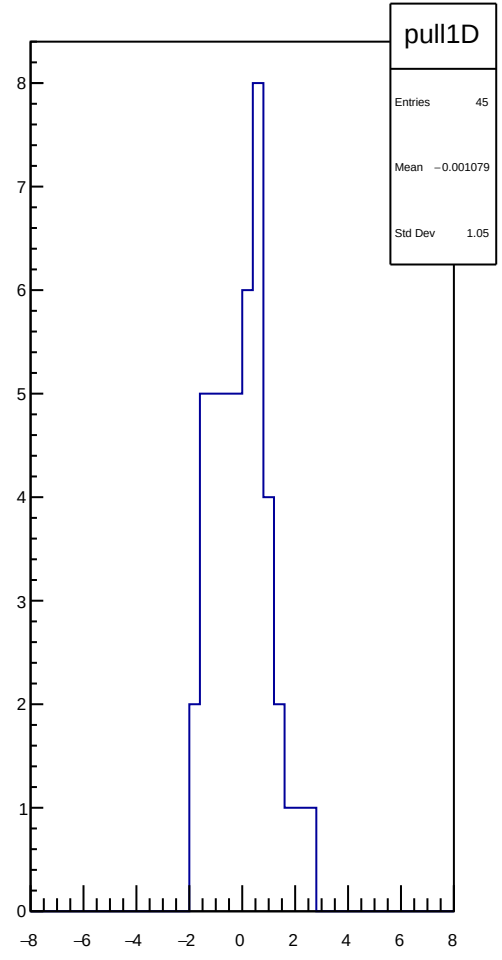
6632. 4
6632. 5
pull
Entries 45
Mean −51.07
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.001079
Std Dev 1.05
8
7
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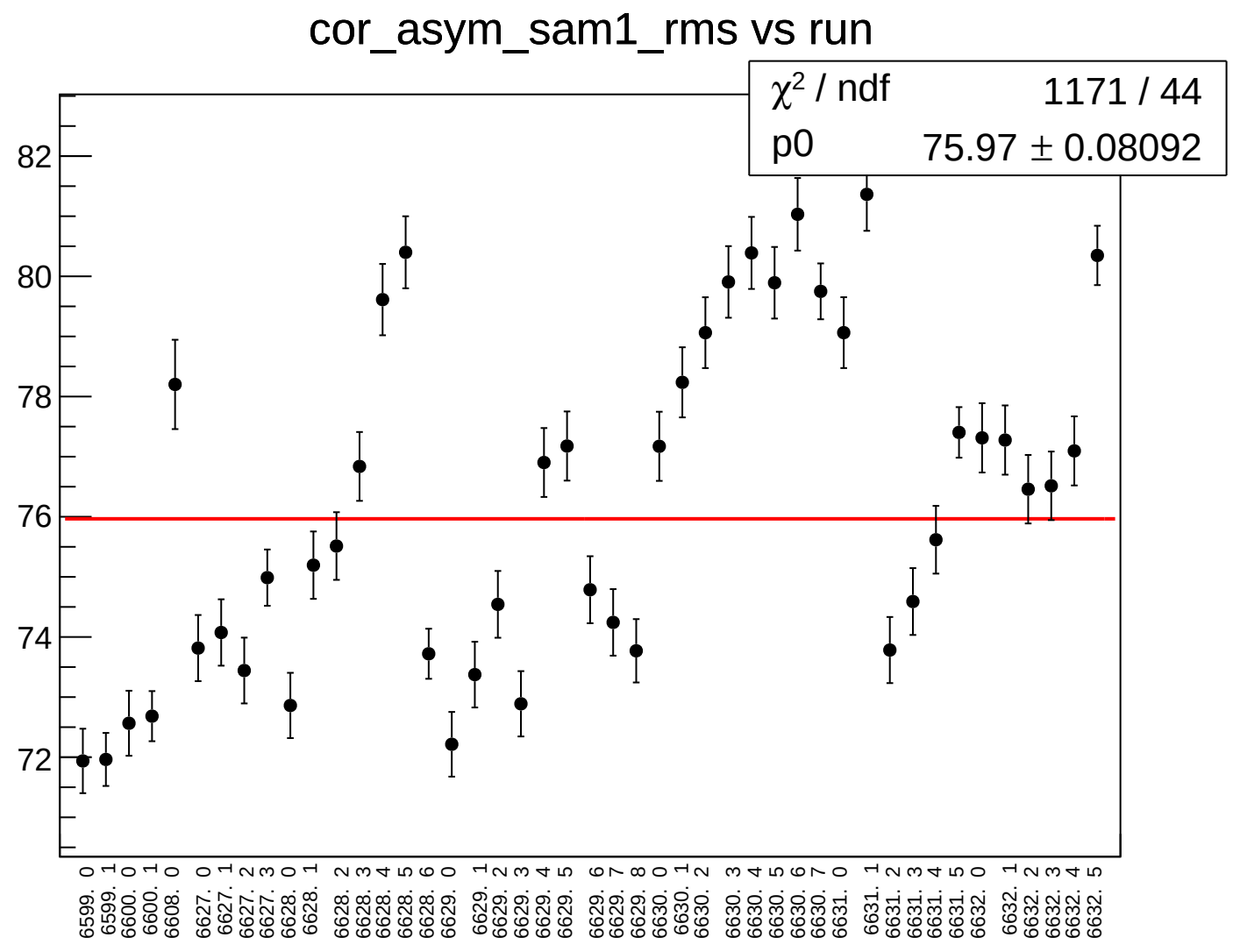
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam1_rms vs run
χ² / ndf 1171 / 44
p0 75.97 ± 0.08092
82
80
78
76
74
72
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
6628. 3
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6629. 7
6629. 8
6630. 0
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6630. 5
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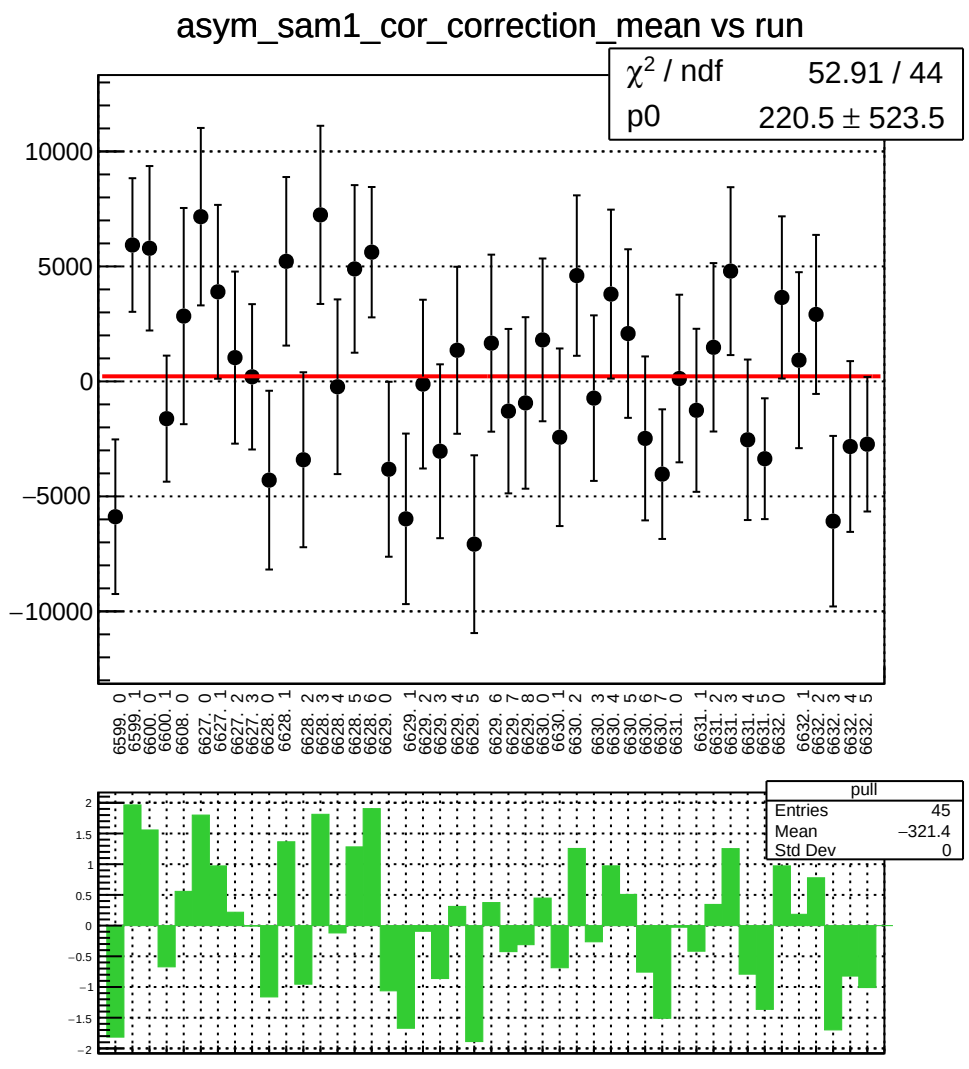
6632. 5


asym_sam1_cor_correction_mean vs run
χ² / ndf 52.91 / 44
p0 220.5 ± 523.5
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
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6629. 6
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6630. 1
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −321.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01008
Std Dev 1.084
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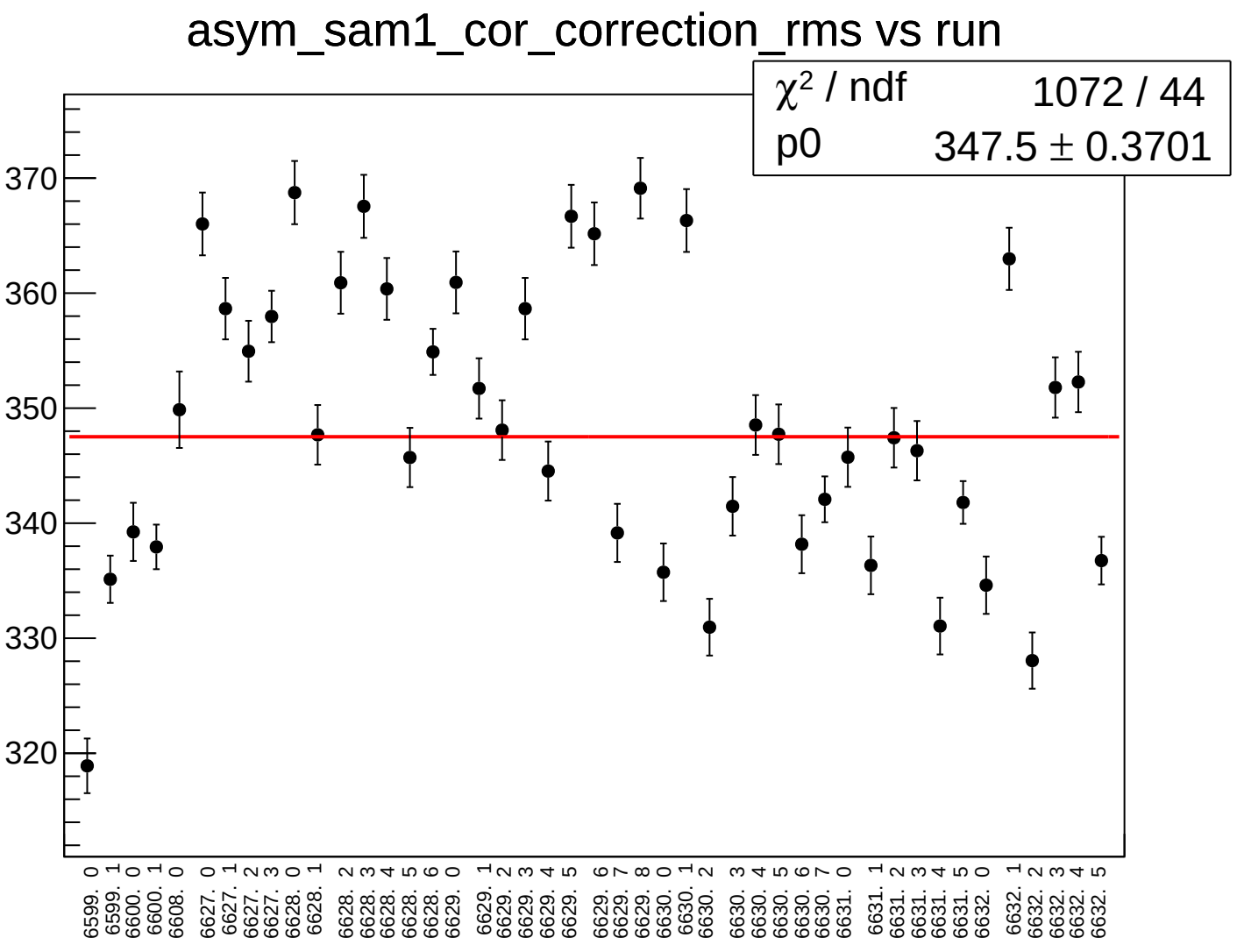
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam1_cor_correction_rms vs run
χ² / ndf 1072 / 44
p0 347.5 ± 0.3701
370
360
350
340
330
320
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
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6630. 2
6630. 3
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6632. 2
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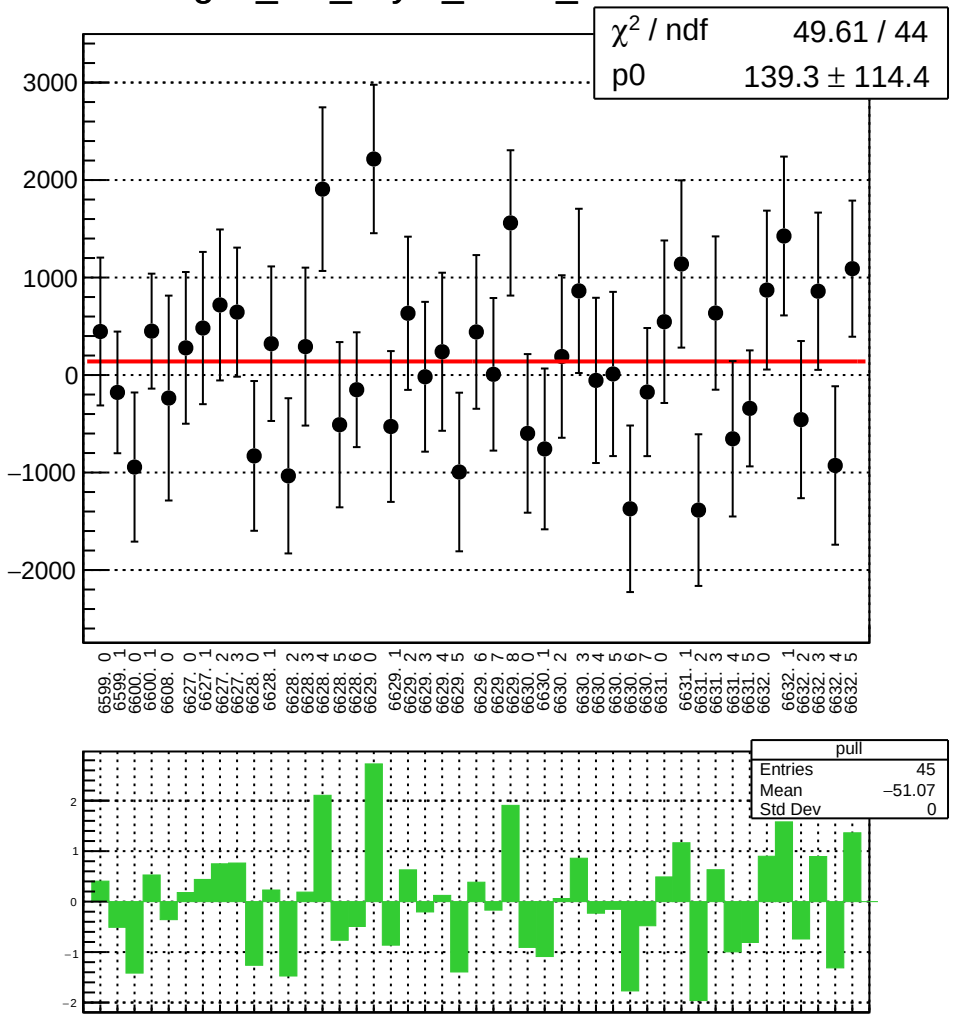
6632. 4
6632. 5


eigen_cor_asym_sam1_mean vs run
χ² / ndf 49.61 / 44
p0 139.3 ± 114.4
3000
2000
1000
0
−1000
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 6
6629. 7
6629. 8
6630. 0
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6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
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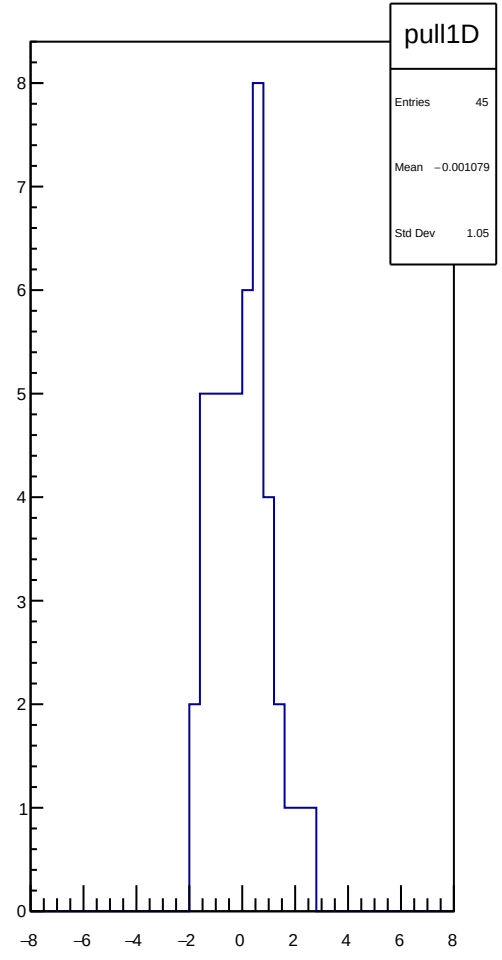
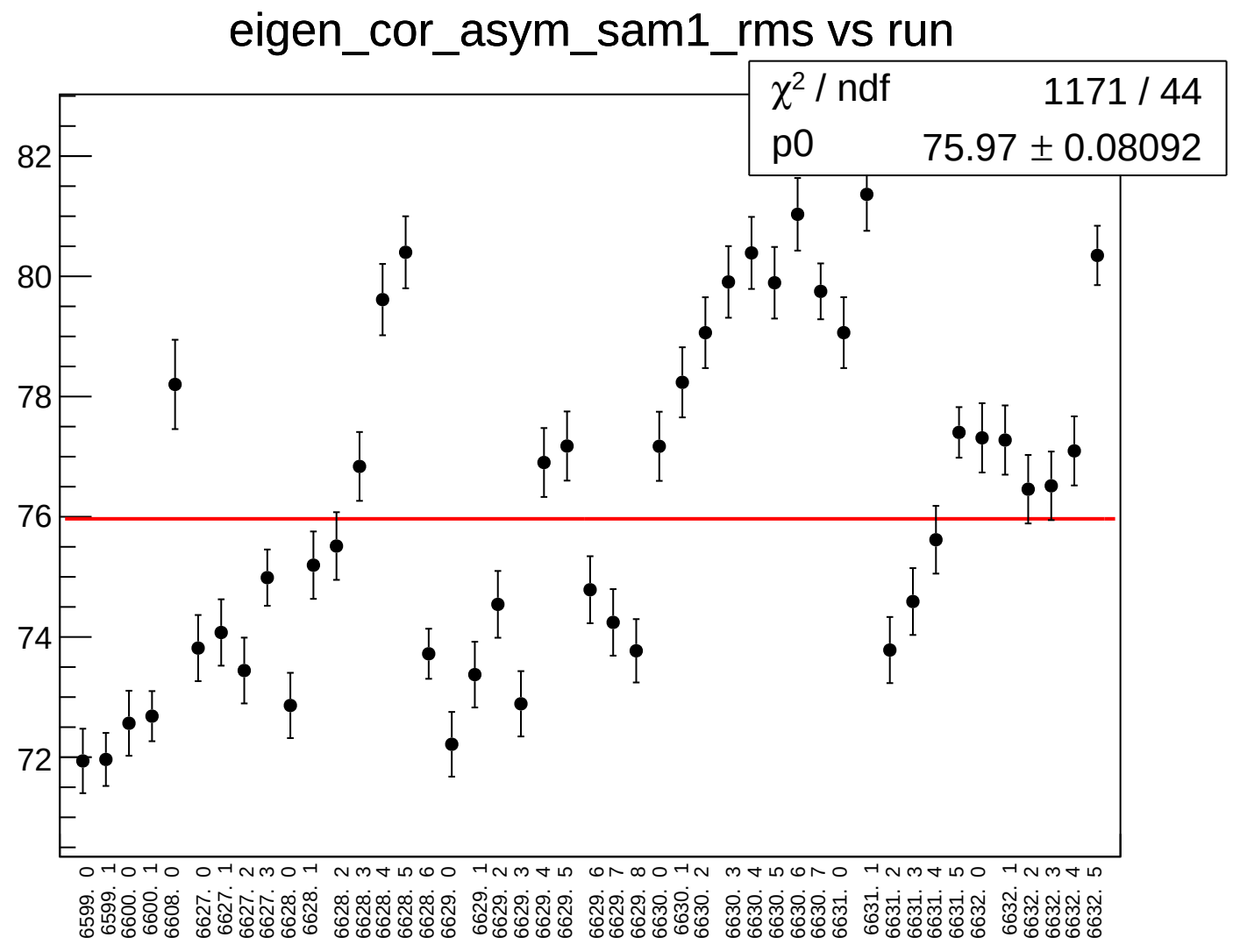
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −51.07
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.001079
Std Dev 1.05
8
7
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 1171 / 44
p0 75.97 ± 0.08092
82
80
78
76
74
72
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
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6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 4
6630. 5
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6630. 7
6631. 0
6631. 1
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6631. 5
6632. 0
6632. 1
6632. 2
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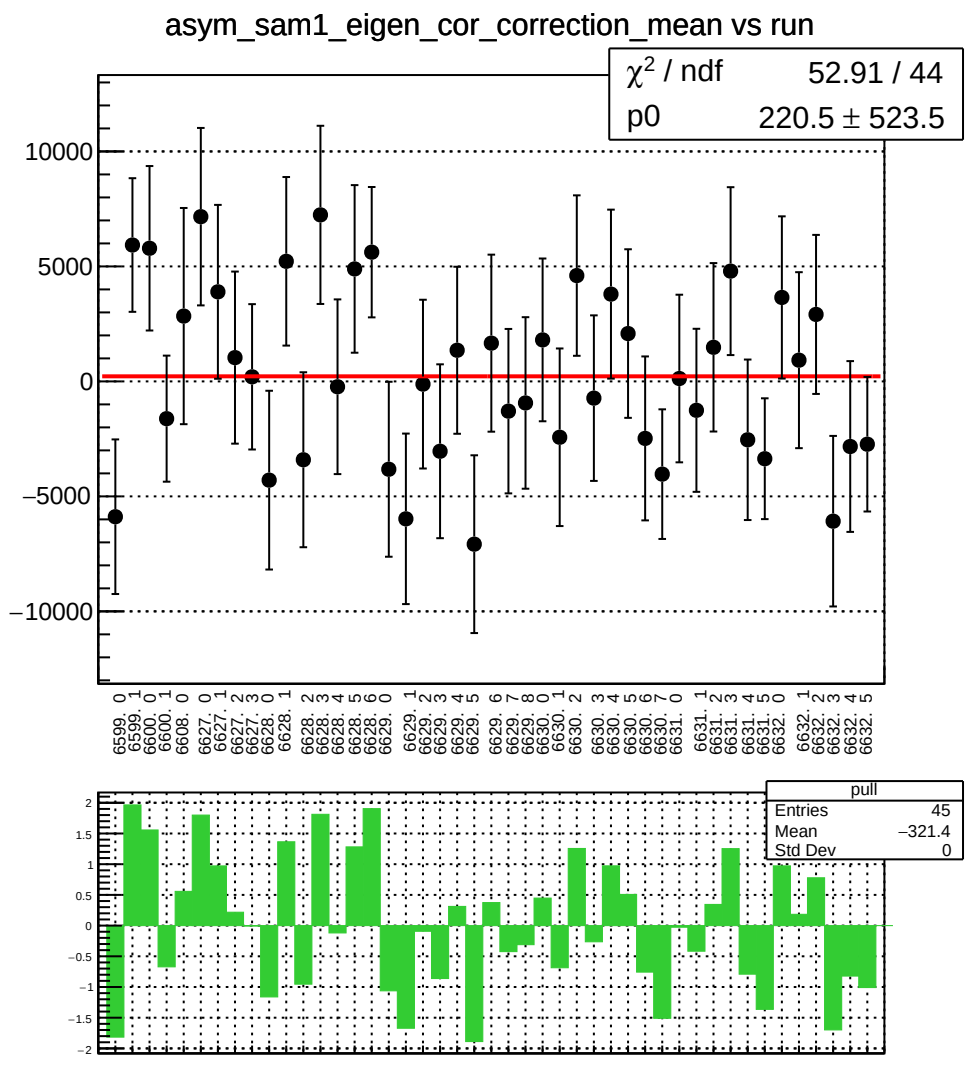
6632. 4
6632. 5


asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 52.91 / 44
p0 220.5 ± 523.5
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6631. 3
6631. 4
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6632. 0
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6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −321.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01008
Std Dev 1.084
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5
4
3
2
1
0
−8
−6
−4
−2
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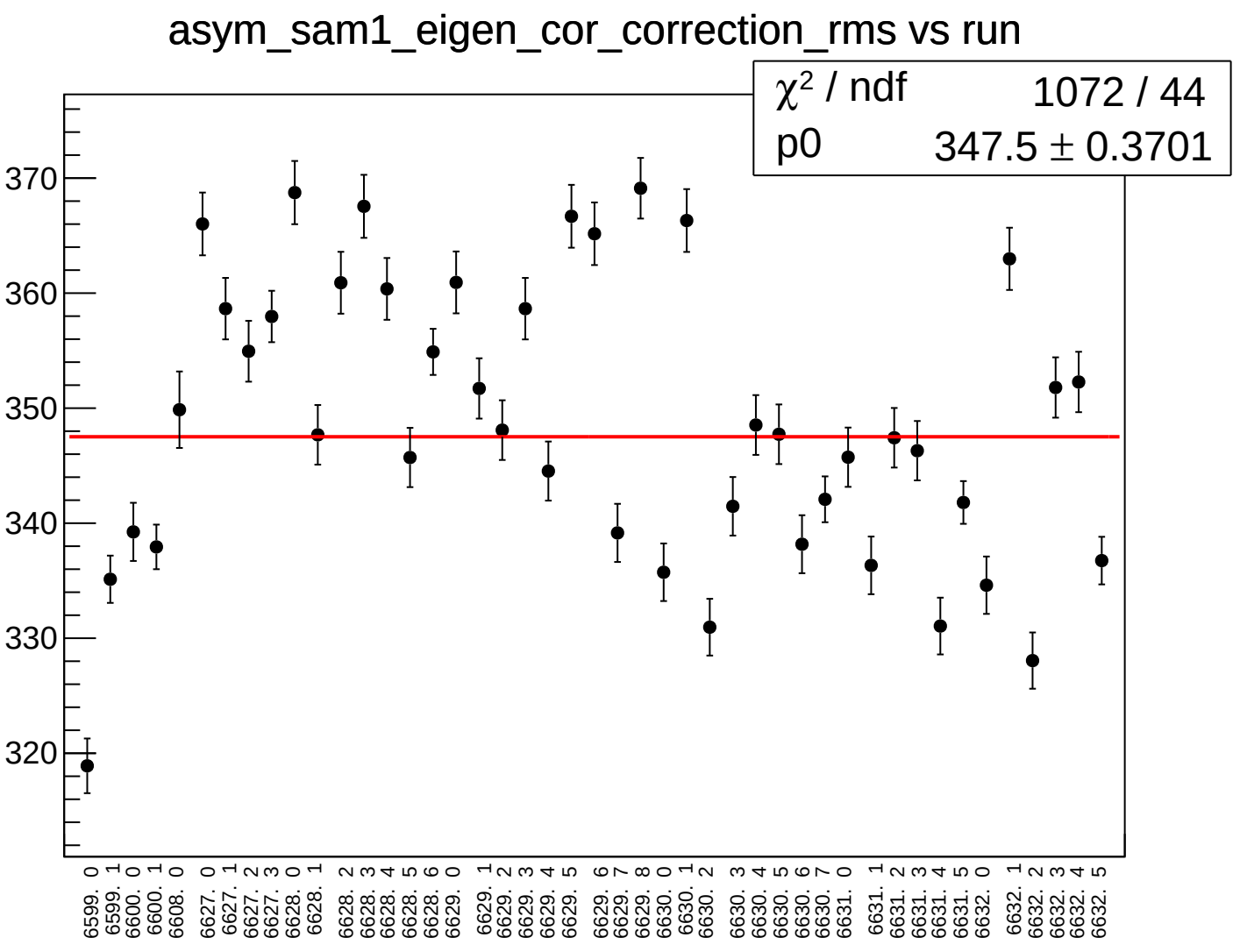
2
4
6
8


asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 1072 / 44
p0 347.5 ± 0.3701
370
360
350
340
330
320
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
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6630. 1
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6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
6631. 5
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6632. 2
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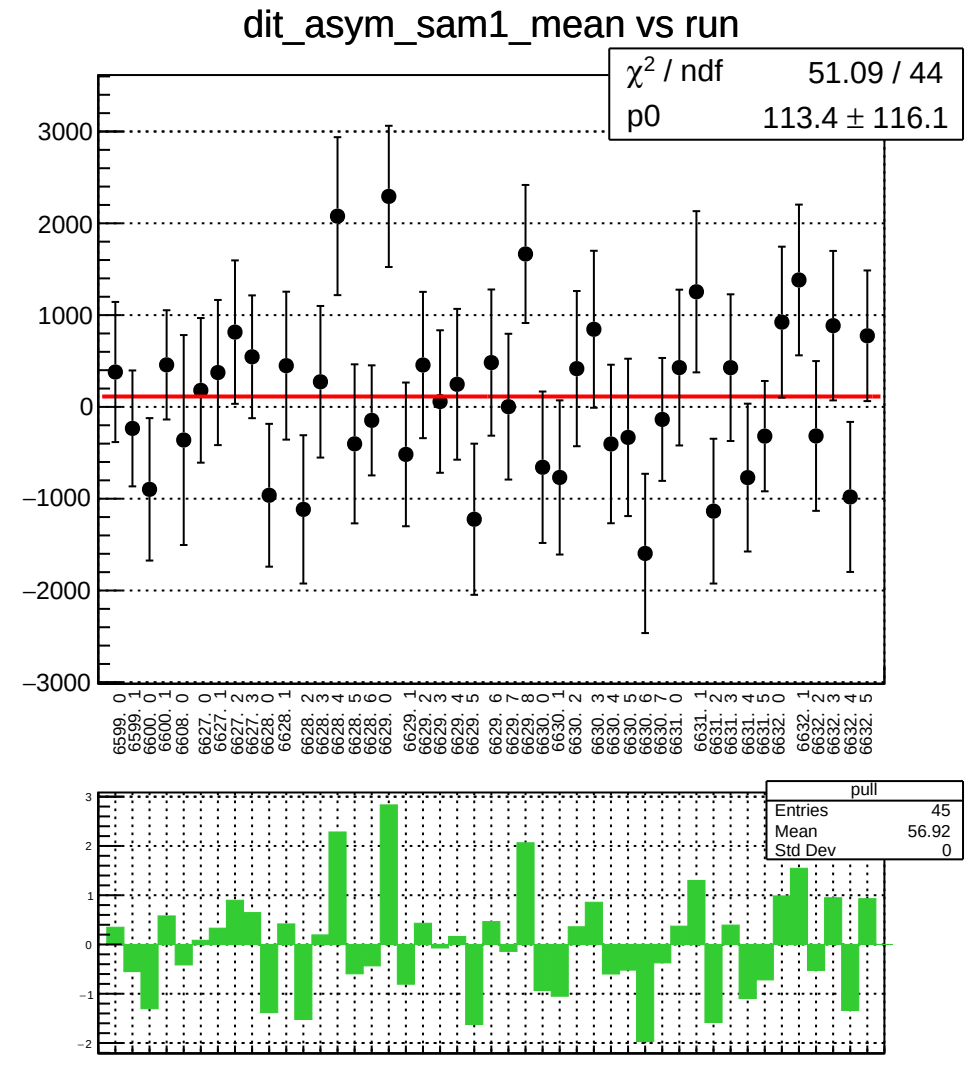
6632. 4
6632. 5


dit_asym_sam1_mean vs run
χ² / ndf 51.09 / 44
p0 113.4 ± 116.1
3000
2000
1000
0
−1000
−2000
−3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6630. 0
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6630. 4
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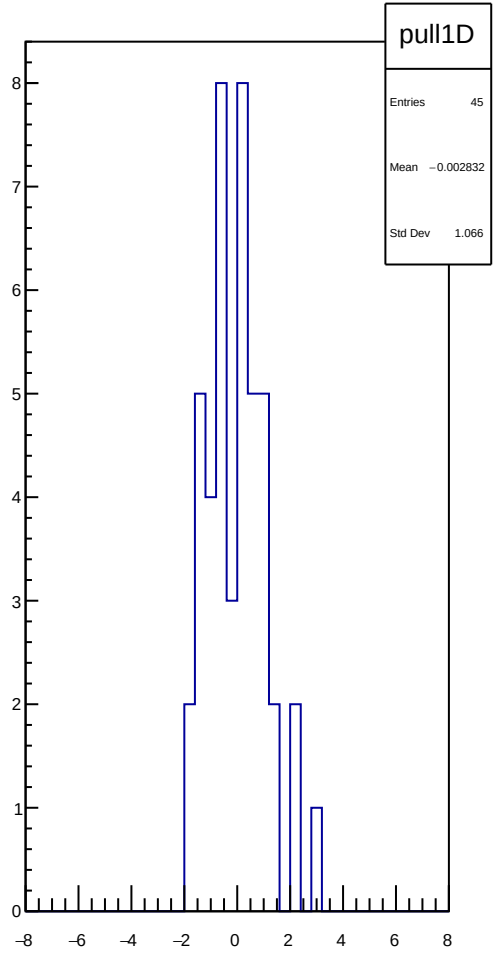
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 56.92
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.002832
Std Dev 1.066
8
7
6
5
4
3
2
1
0
−8
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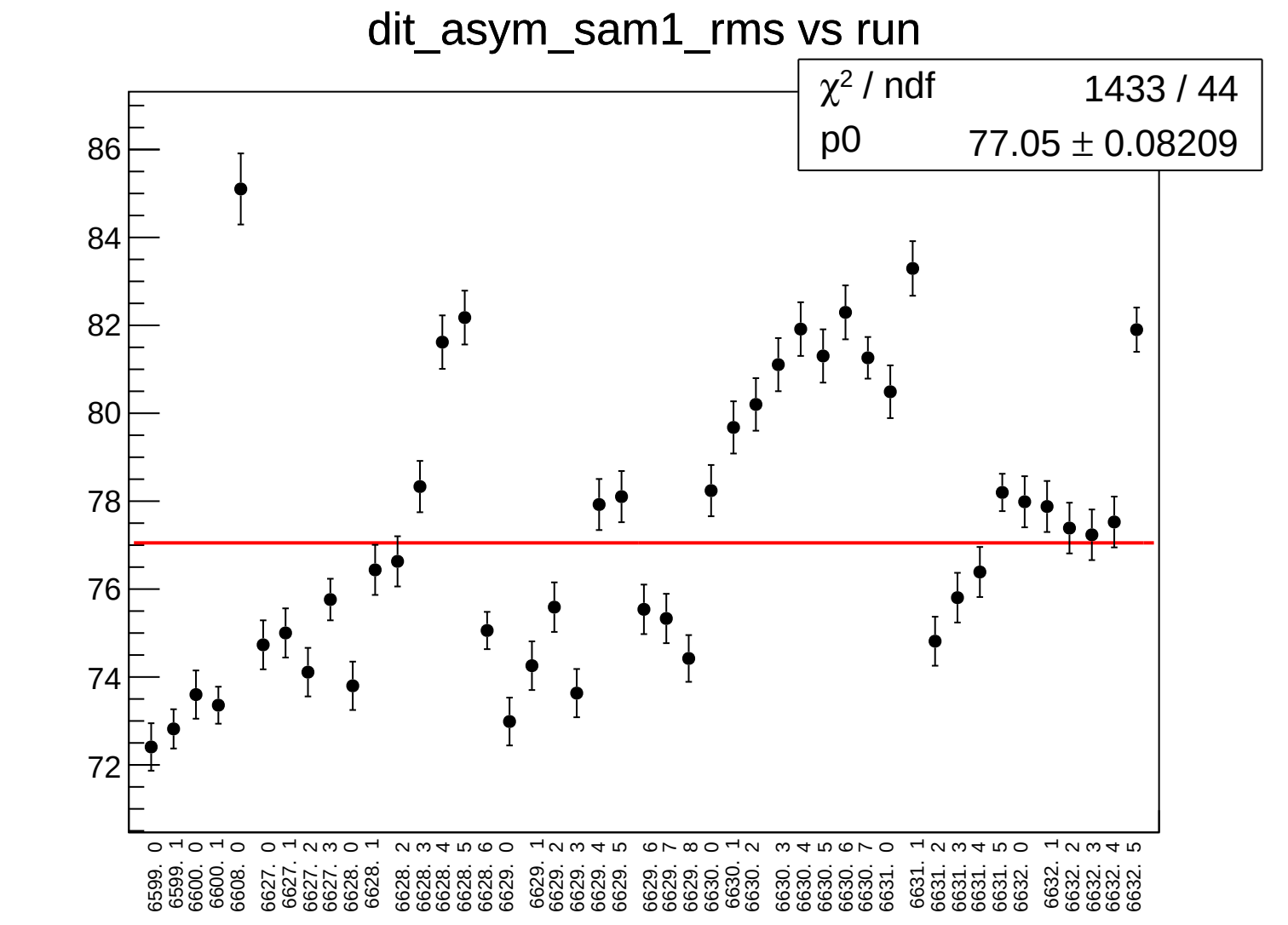
−4
−2
0
2
4
6
8


dit_asym_sam1_rms vs run
χ² / ndf 1433 / 44
p0 77.05 ± 0.08209
86
84
82
80
78
76
74
72
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
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6630. 2
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6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6632. 2
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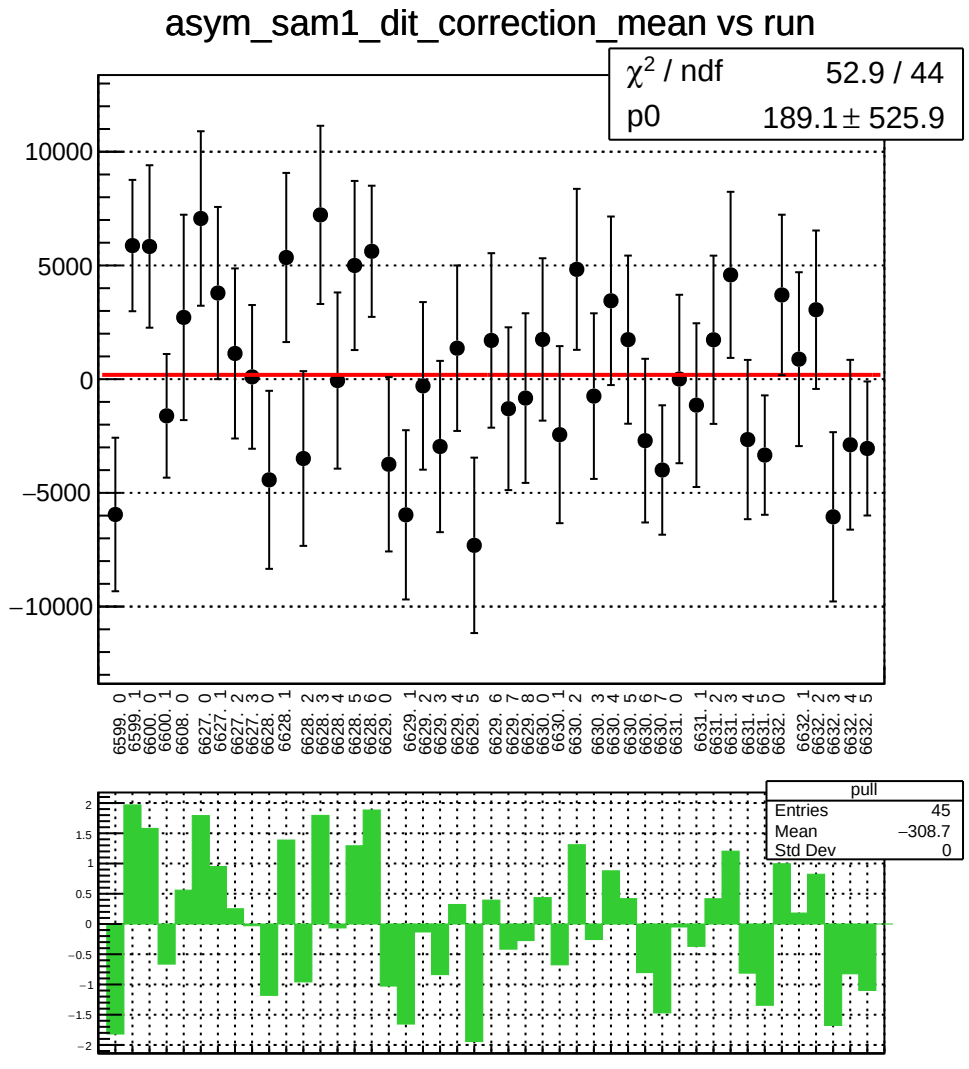
6632. 5


asym_sam1_dit_correction_mean vs run
χ² / ndf 52.9 / 44
p0 189.1 ± 525.9
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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6630. 1
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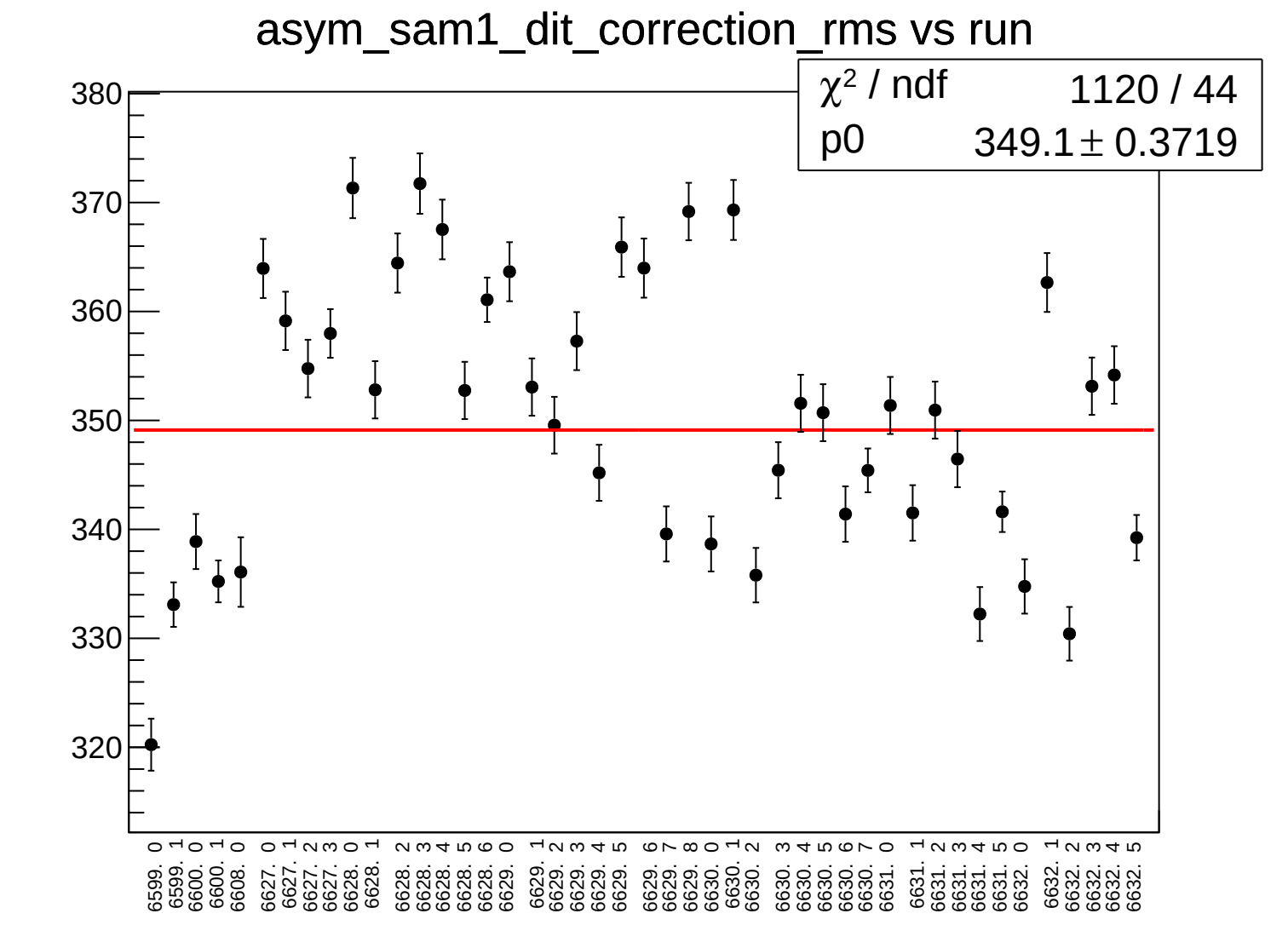
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −308.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01059
Std Dev 1.084
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam1_dit_correction_rms vs run
χ² / ndf 1120 / 44
p0 349.1 ± 0.3719
380
370
360
350
340
330
320
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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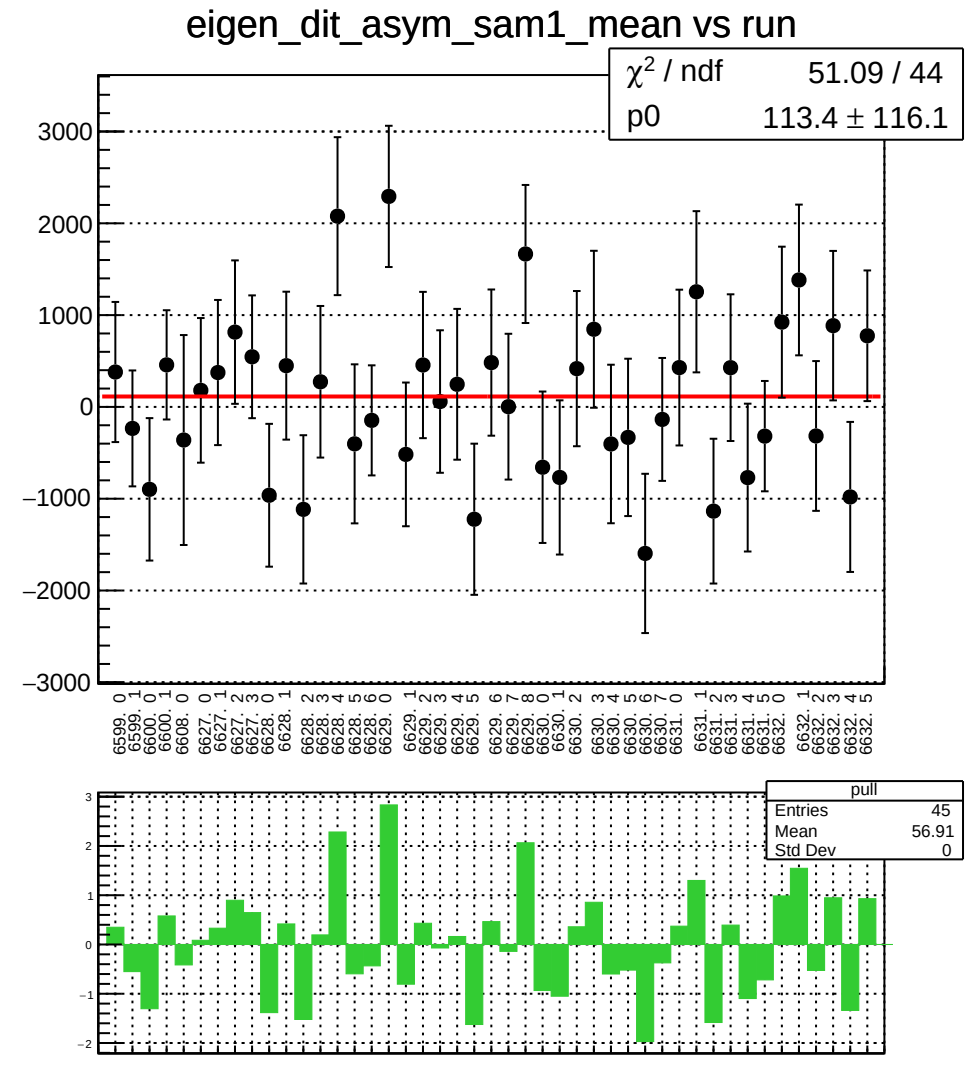
6632. 4
6632. 5


eigen_dit_asym_sam1_mean vs run
χ² / ndf 51.09 / 44
p0 113.4 ± 116.1
3000
2000
1000
0
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−2000
−3000
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6599. 1
6600. 0
6600. 1
6608. 0
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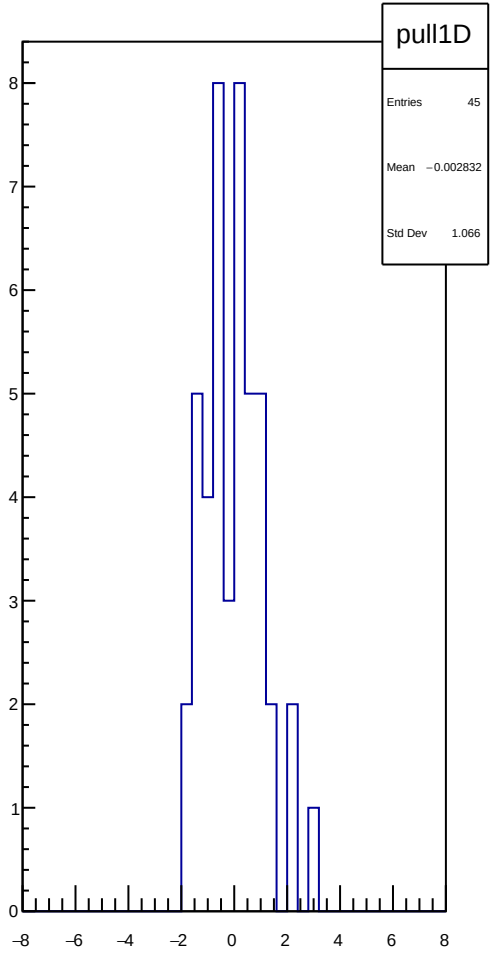
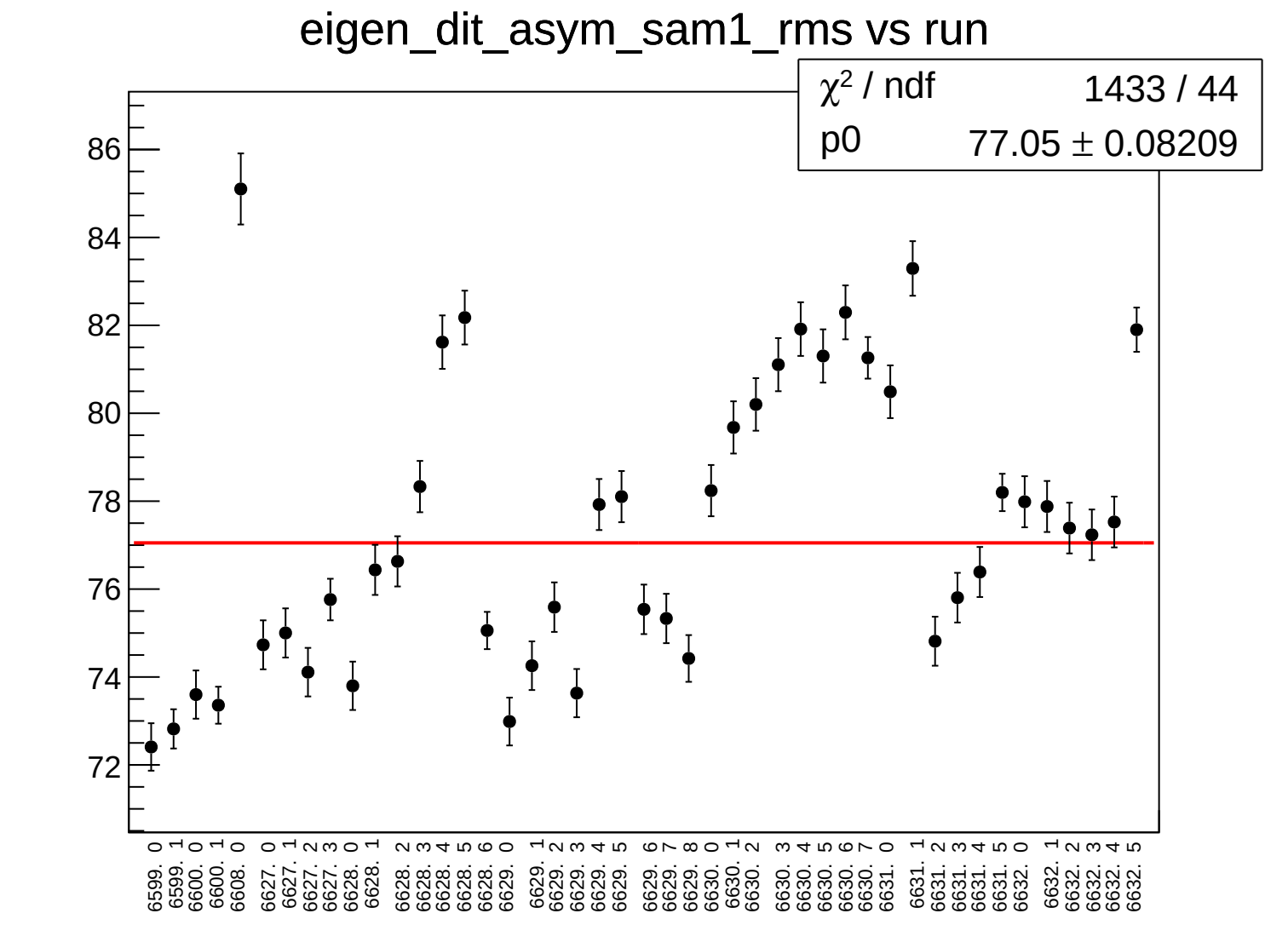
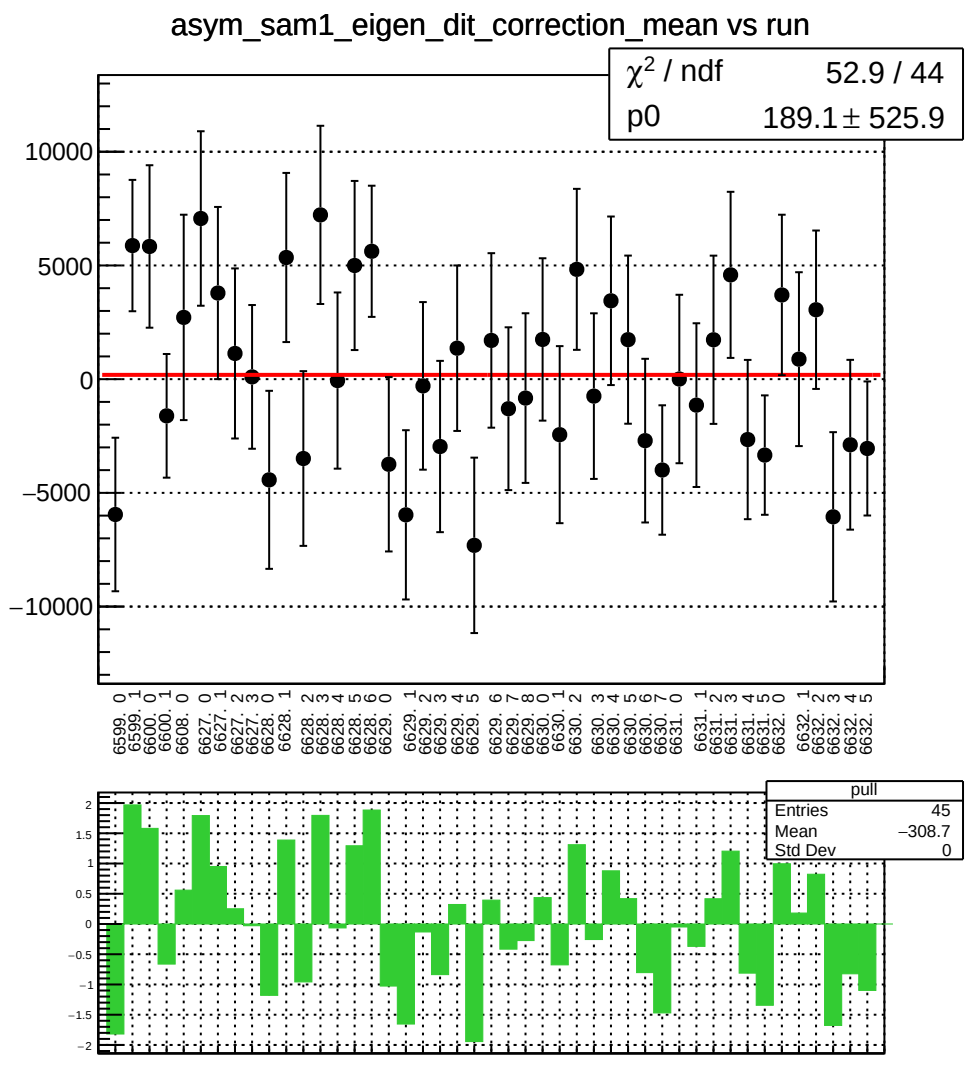
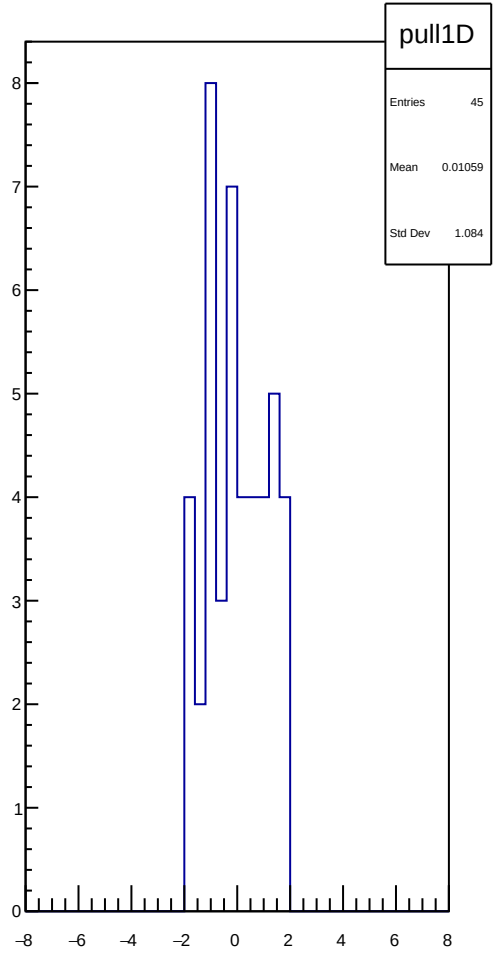
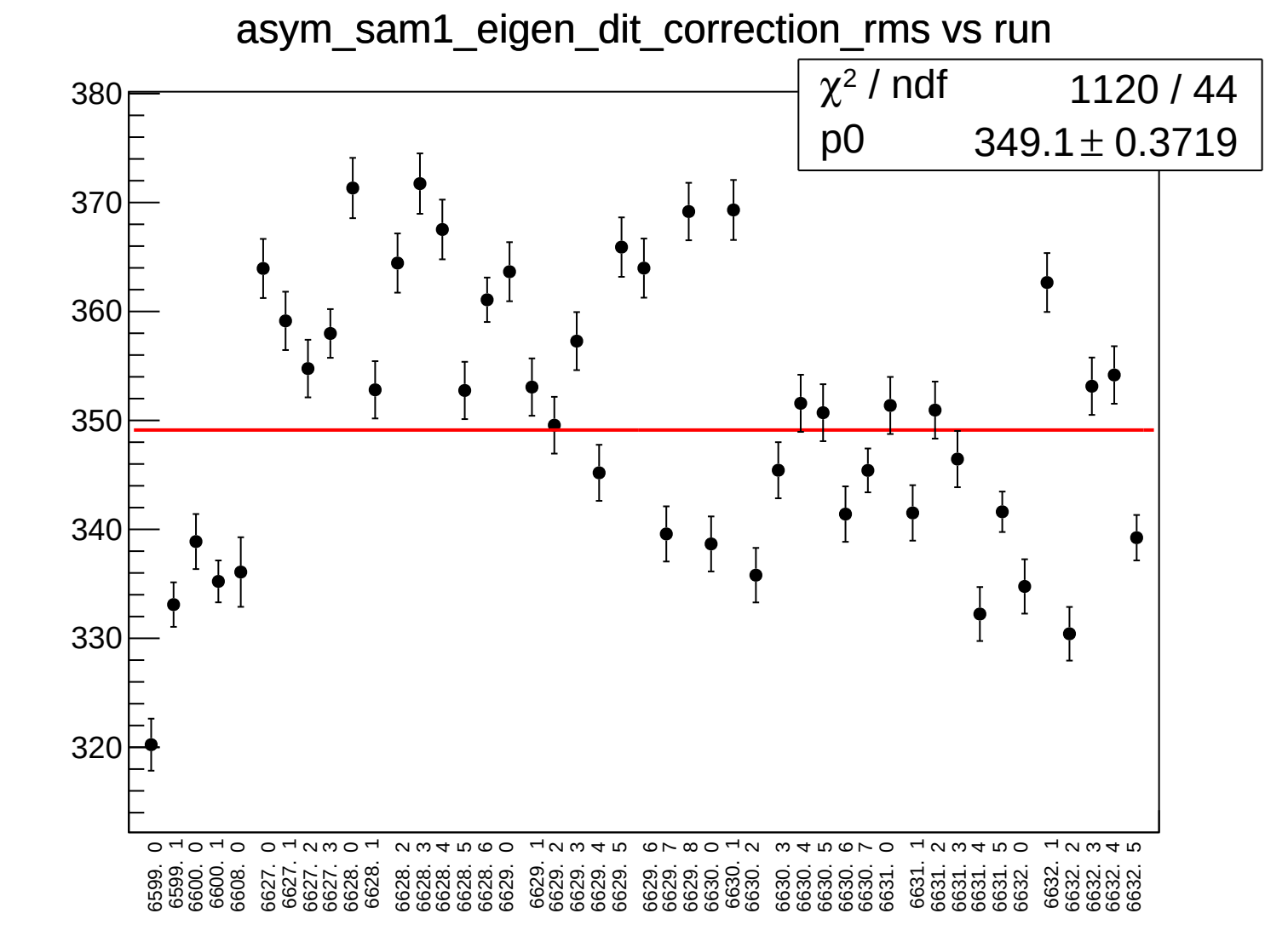
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 56.91
Std Dev 0
3
2
1
0
−1
−2

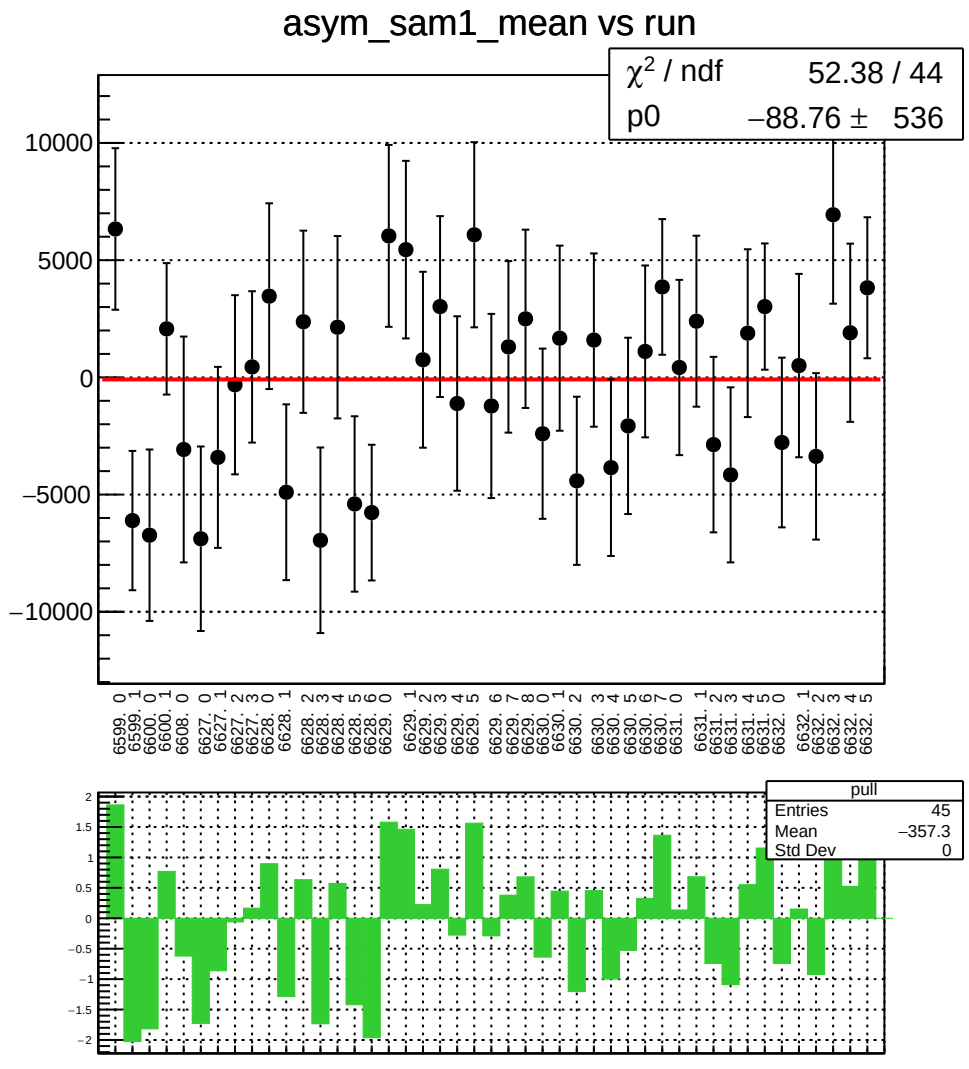

pull1D
Entries 45
Mean −0.002832
Std Dev 1.066
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

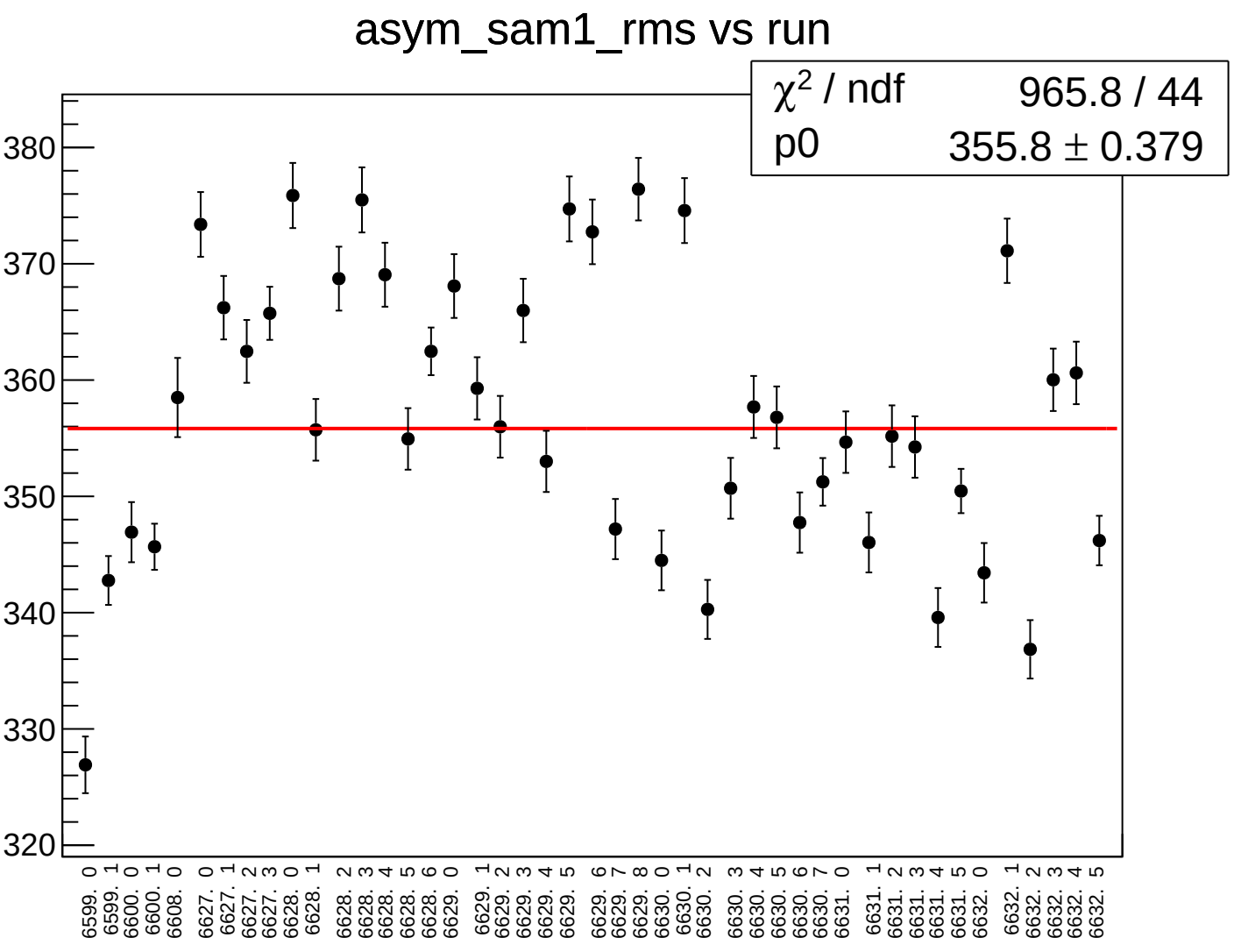

eigen_dit_asym_sam1_rms vs run
χ² / ndf 1433 / 44
p0 77.05 ± 0.08209
86
84
82
80
78
76
74
72
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

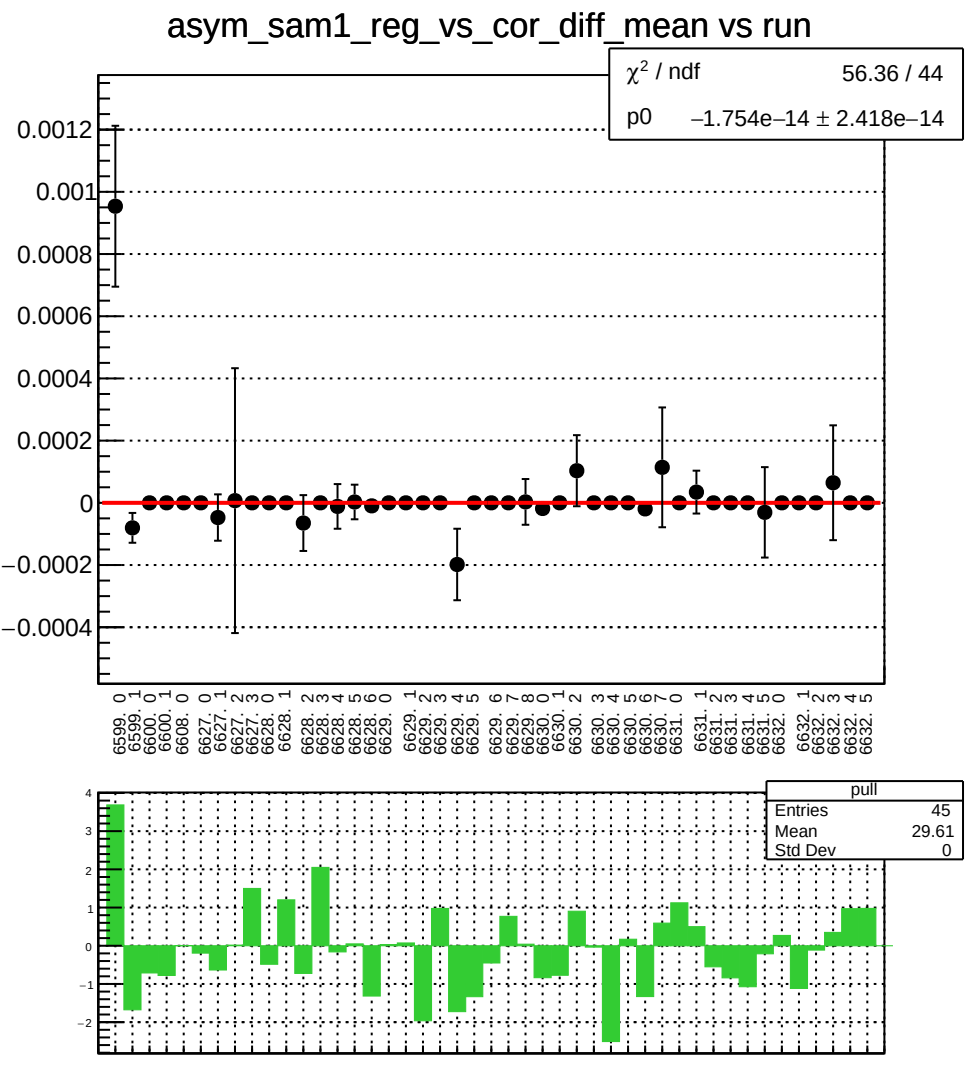

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 52.9 / 44
p0 189.1 ± 525.9
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −308.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

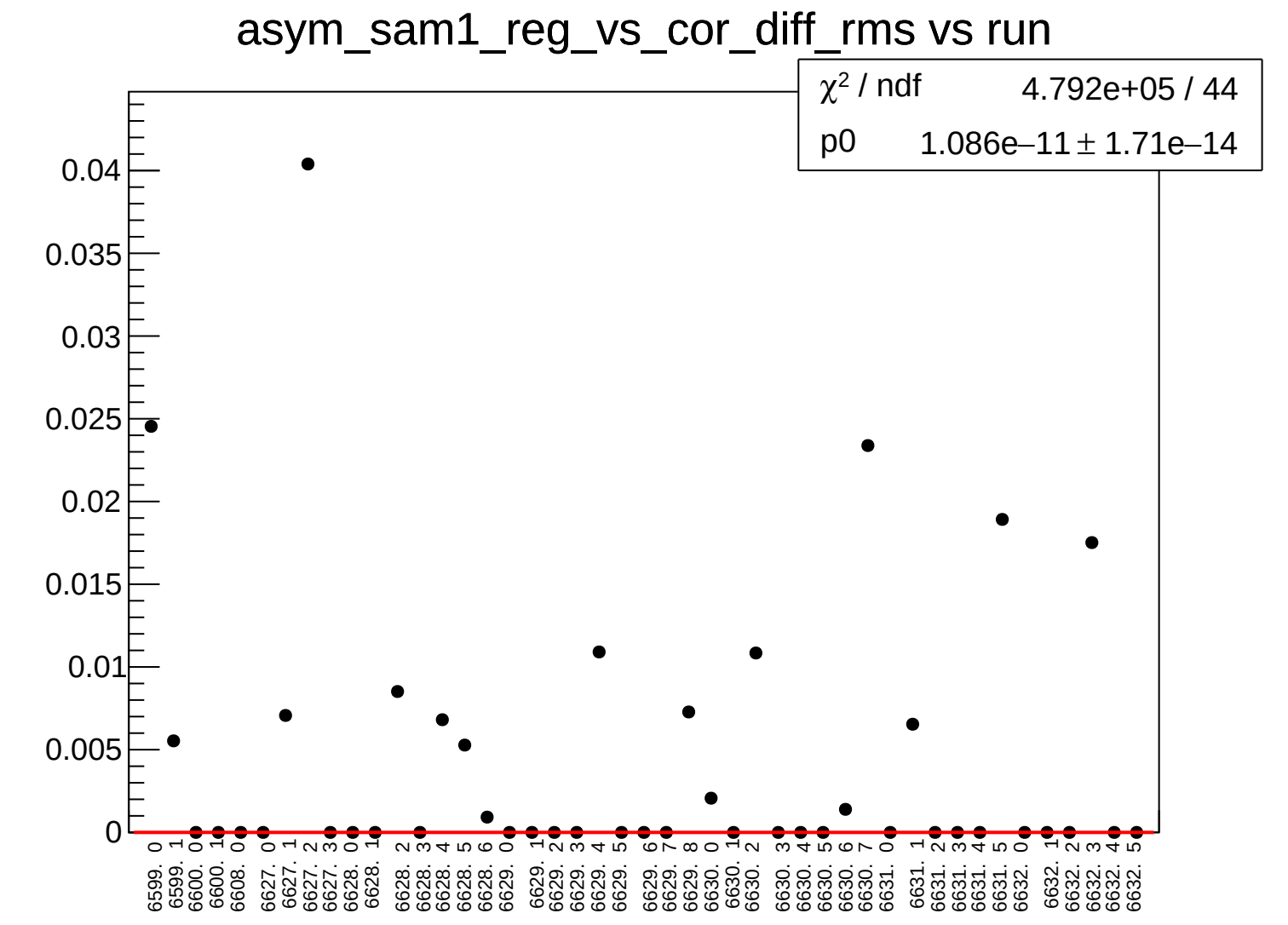

pull1D
Entries 45
Mean 0.01059
Std Dev 1.084
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

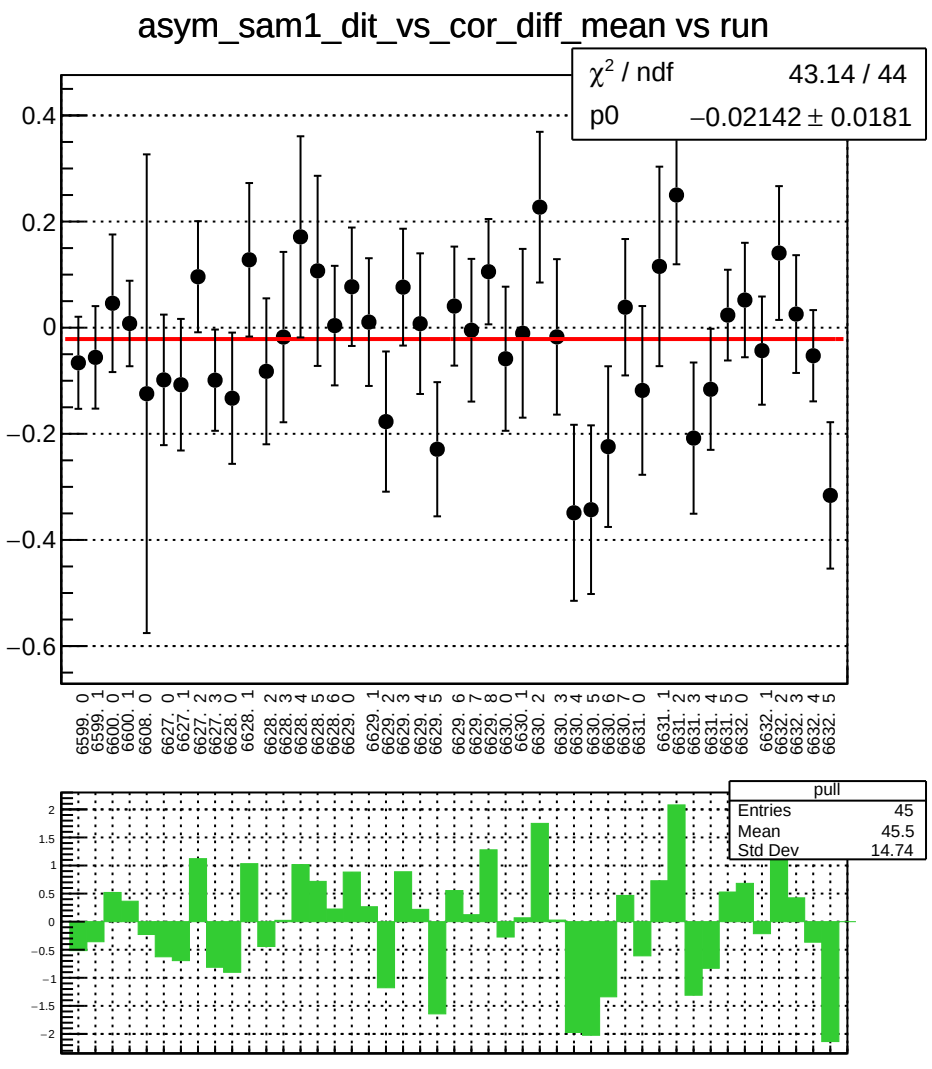

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 1120 / 44
p0 349.1 ± 0.3719
380
370
360
350
340
330
320
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

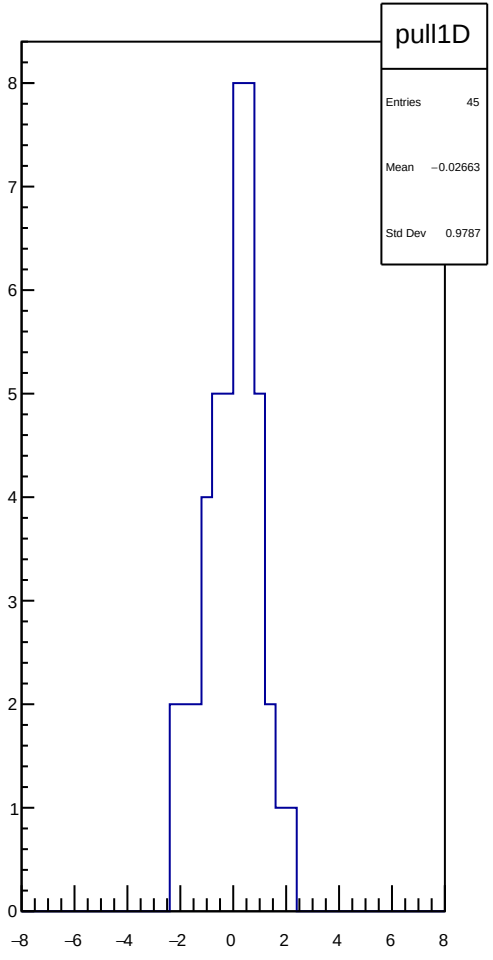

asym_sam1_mean vs run
χ² / ndf 52.38 / 44
p0 −88.76 ± 536
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −357.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.008978
Std Dev 1.079
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

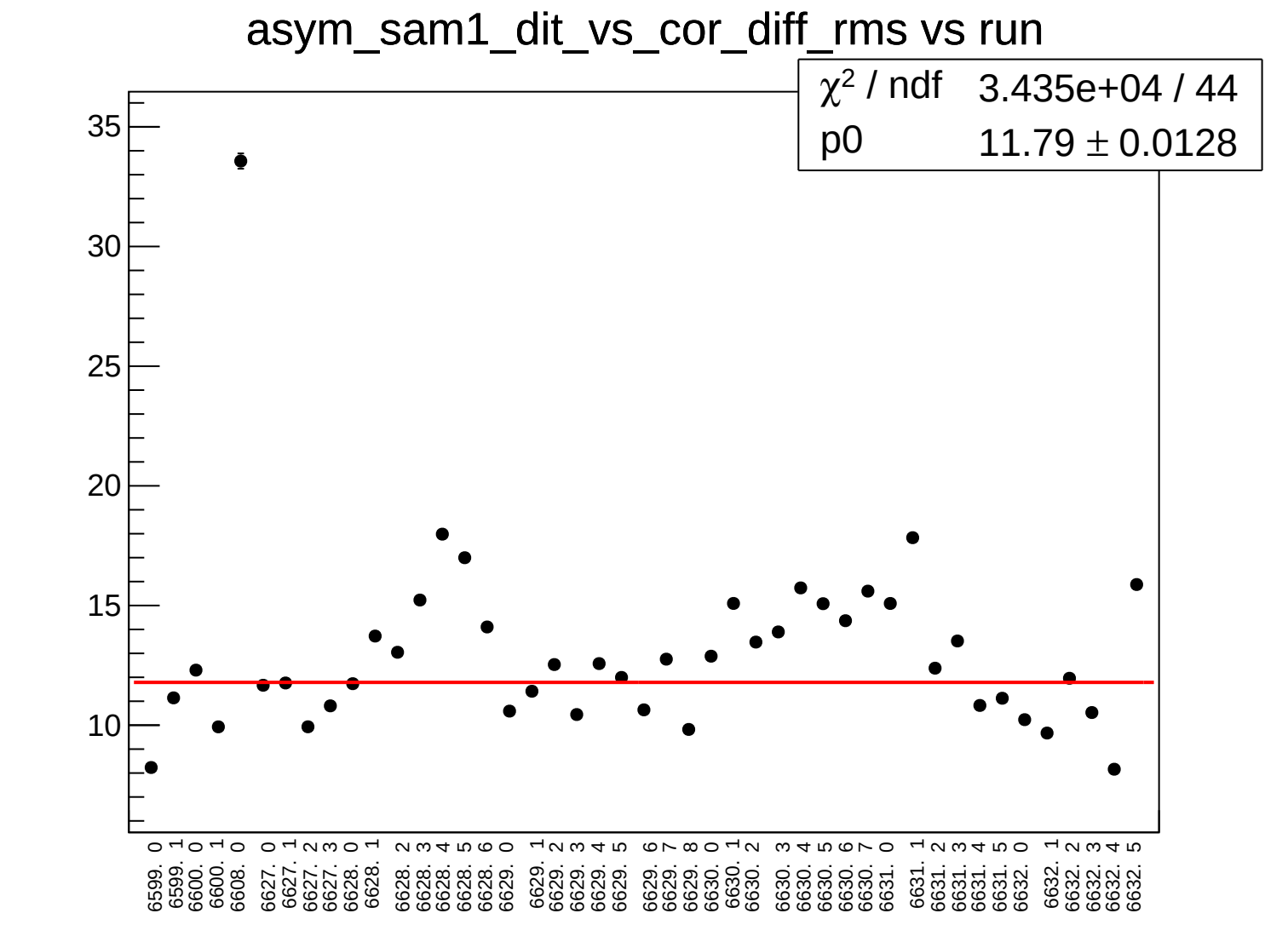

asym_sam1_rms vs run
χ² / ndf 965.8 / 44
p0 355.8 ± 0.379
380
370
360
350
340
330
320
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

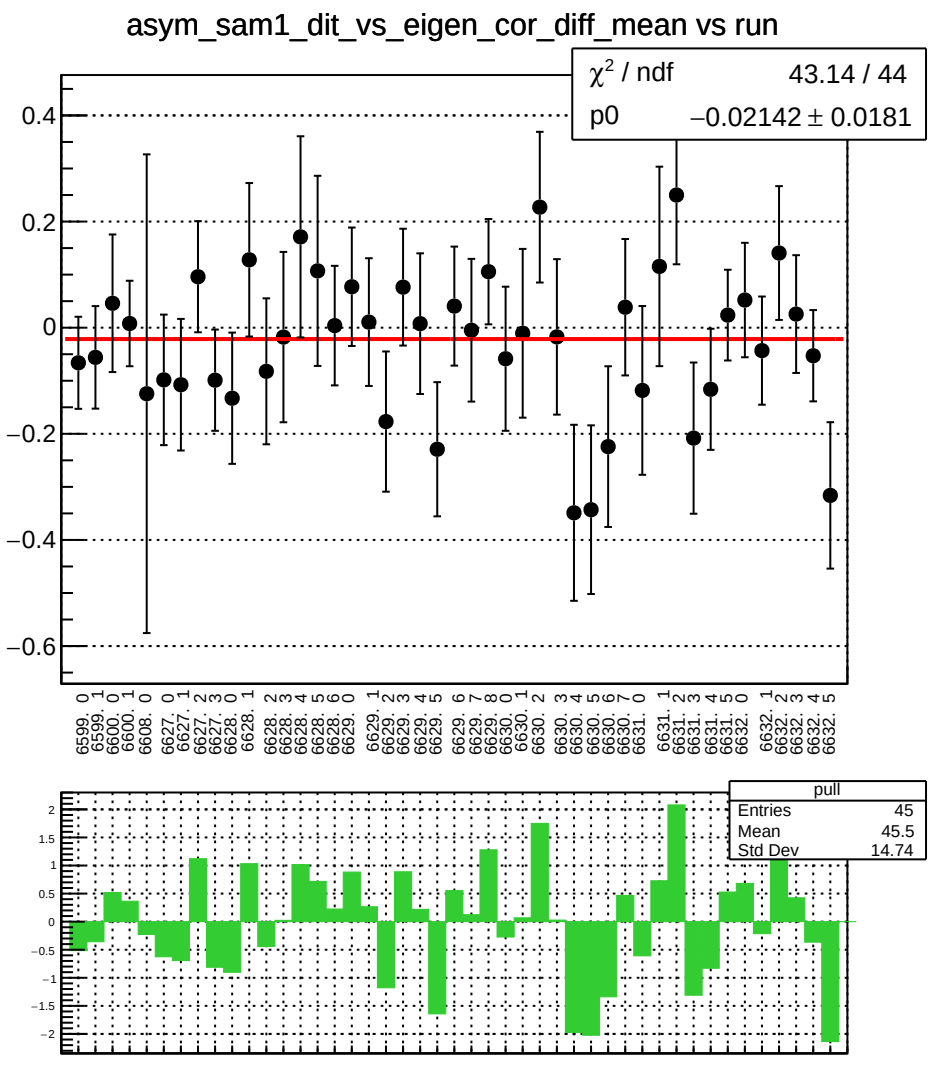

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 56.36 / 44
p0 −1.754e−14 ± 2.418e−14
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 29.61
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.1173
Std Dev 1.113
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

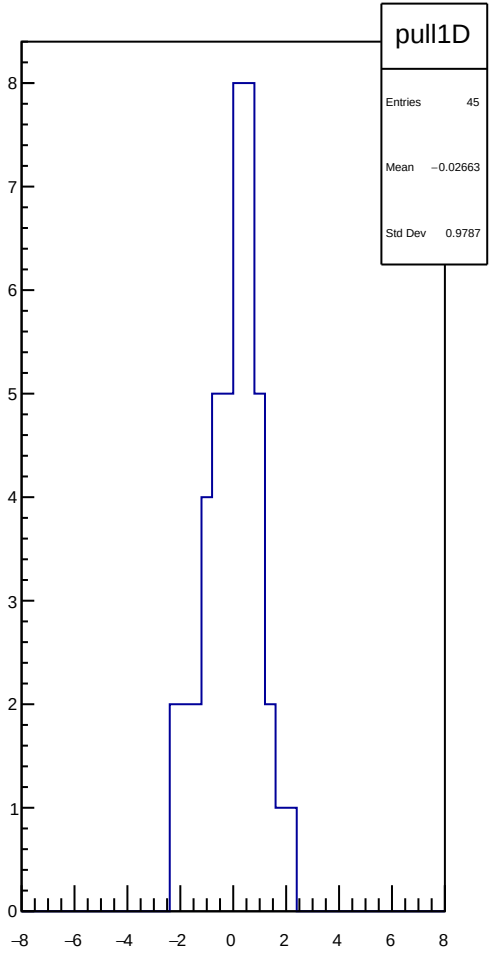

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 4.792e+05 / 44
p0 1.086e−11 ± 1.71e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

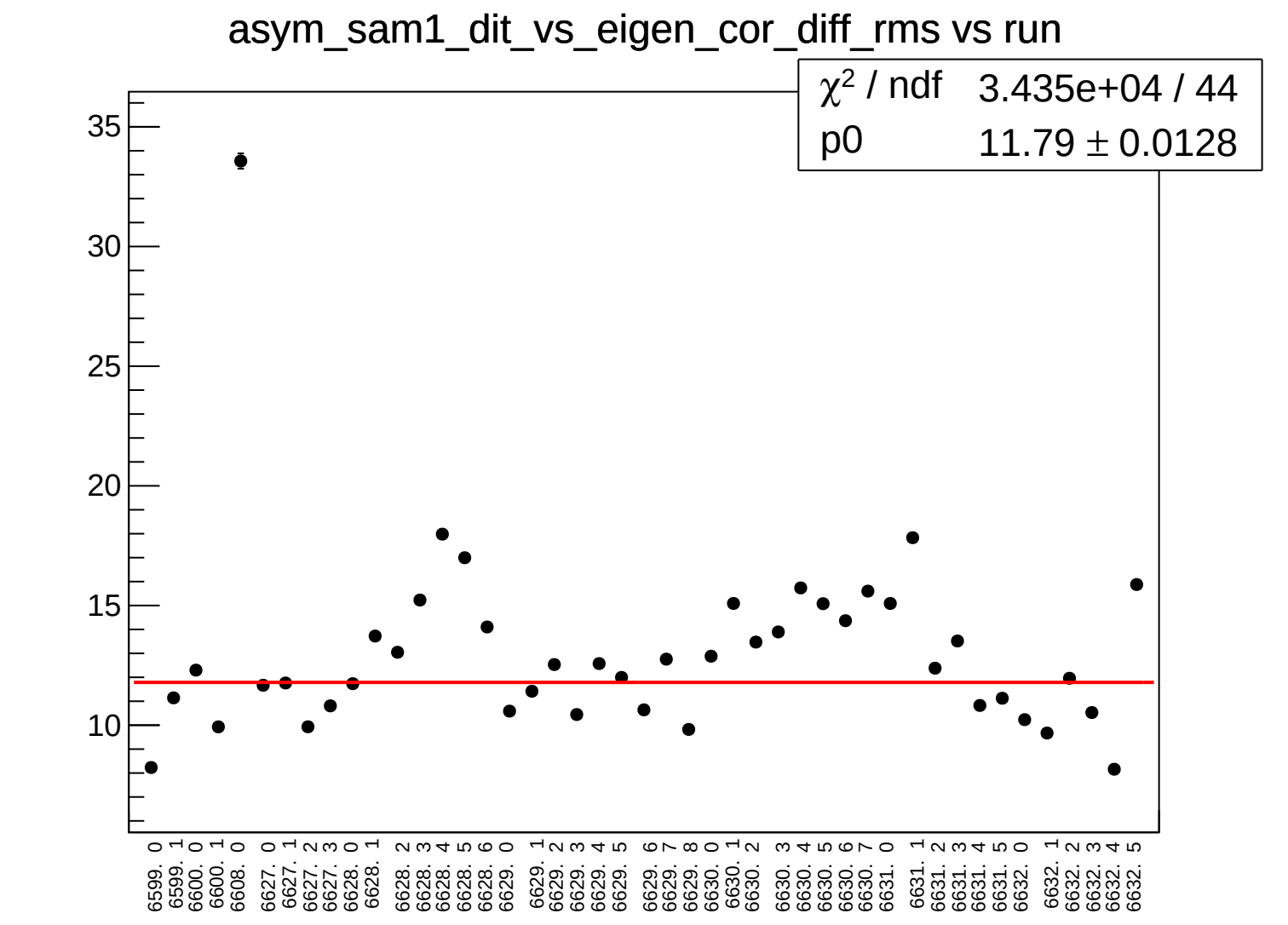

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 43.14 / 44
p0 −0.02142 ± 0.0181
0.4
0.2
0
−0.2
−0.4
−0.6
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 45.5
Std Dev 14.74
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

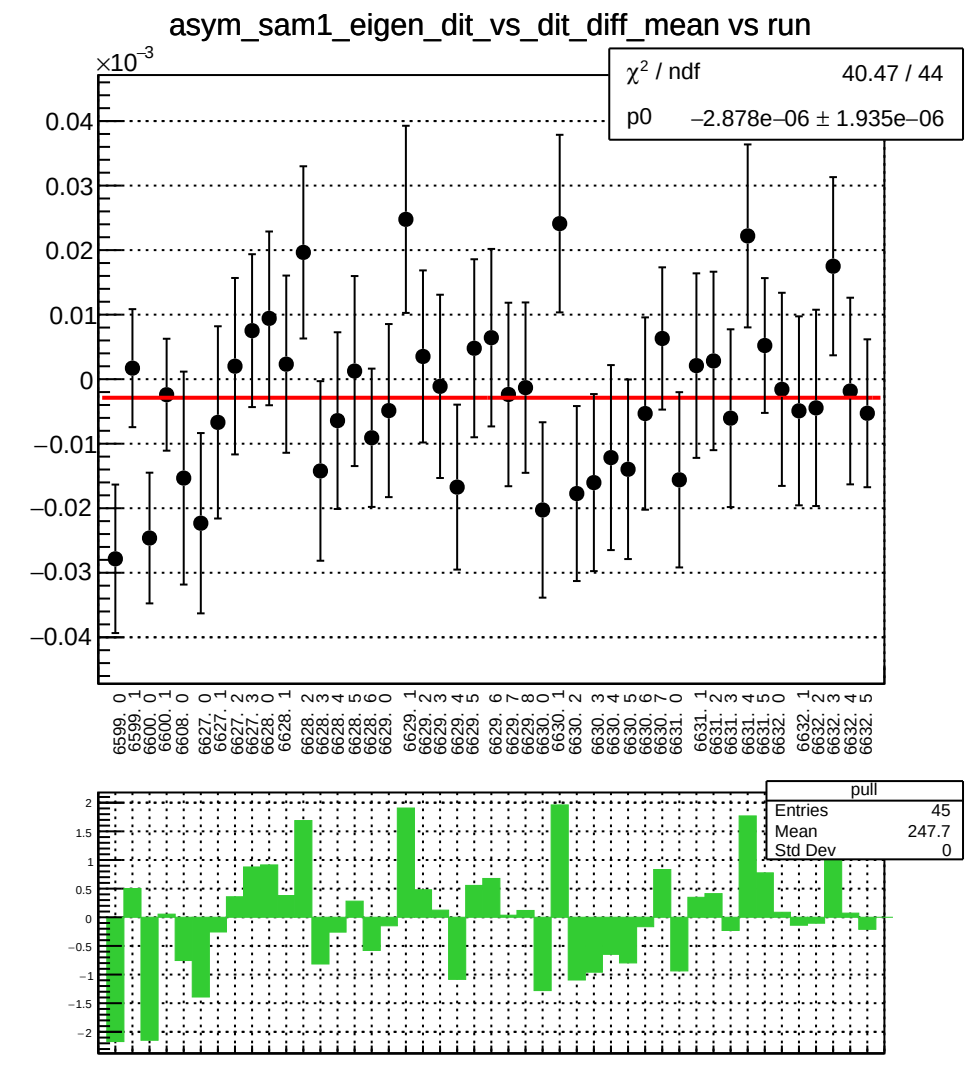

pull1D
Entries 45
Mean −0.02663
Std Dev 0.9787
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

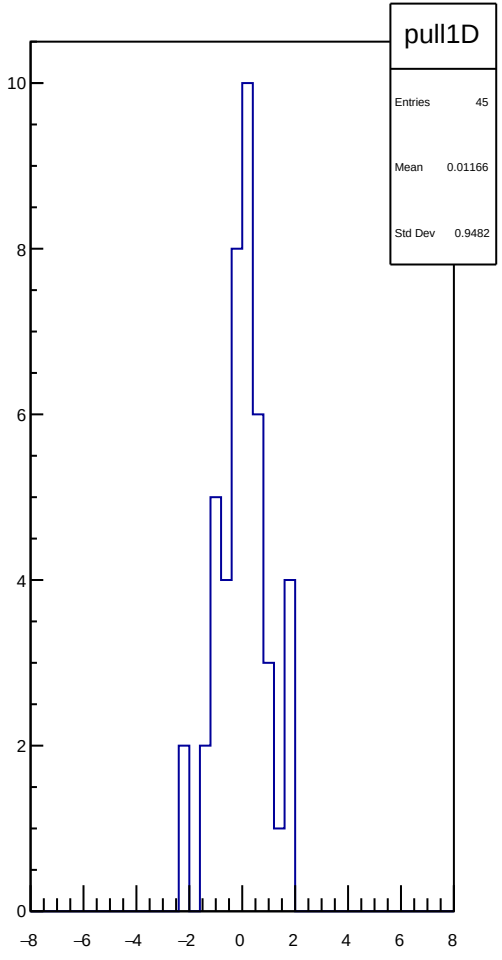

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 3.435e+04 / 44
p0 11.79 ± 0.0128
35
30
25
20
15
10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

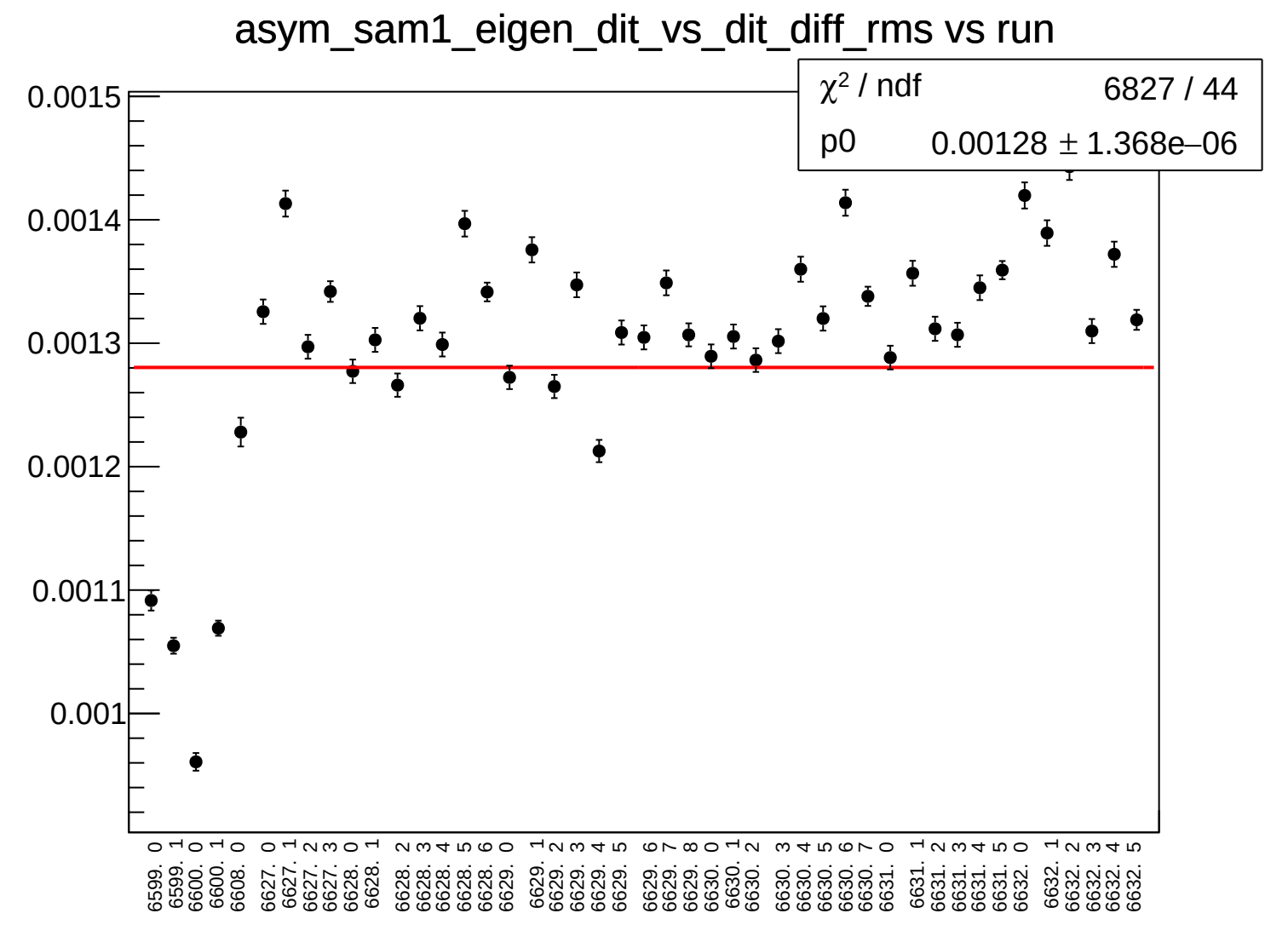

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 43.14 / 44
p0 −0.02142 ± 0.0181
0.4
0.2
0
−0.2
−0.4
−0.6
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 45.5
Std Dev 14.74
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

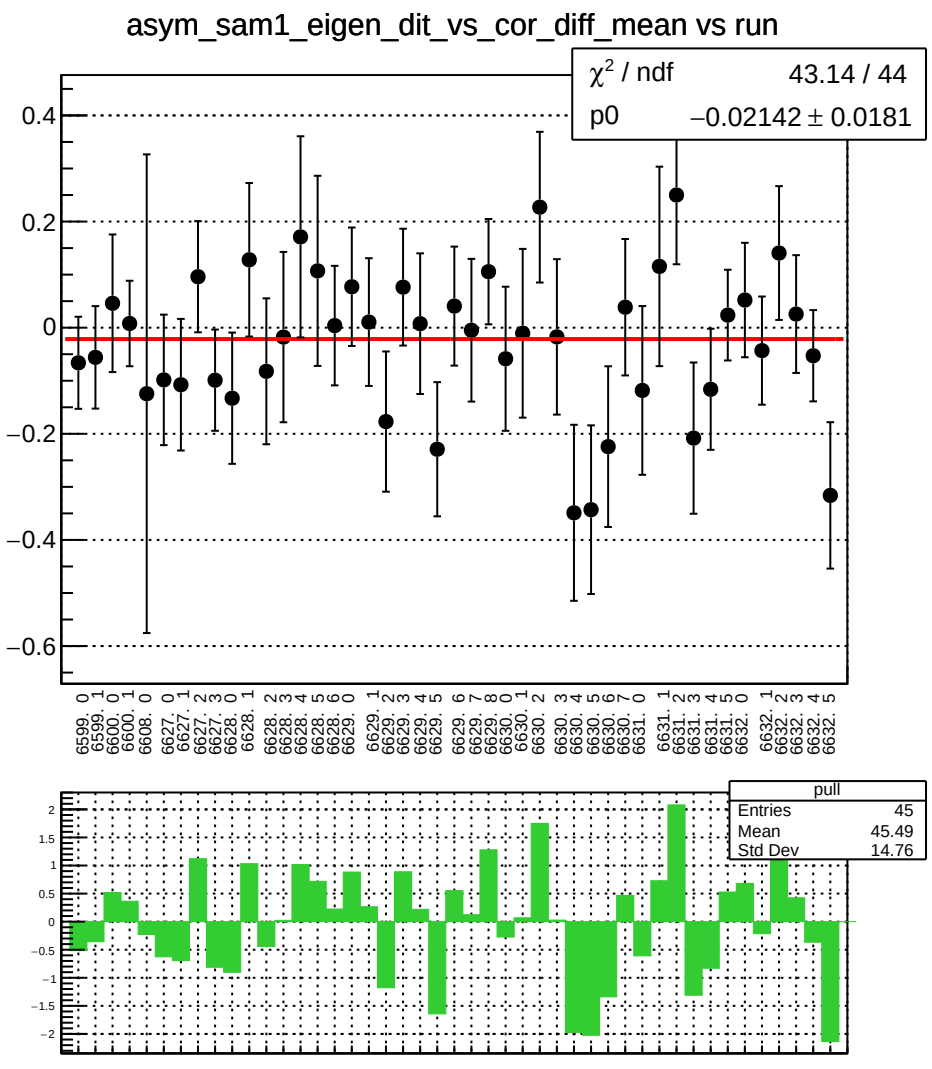

pull1D
Entries 45
Mean −0.02663
Std Dev 0.9787
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

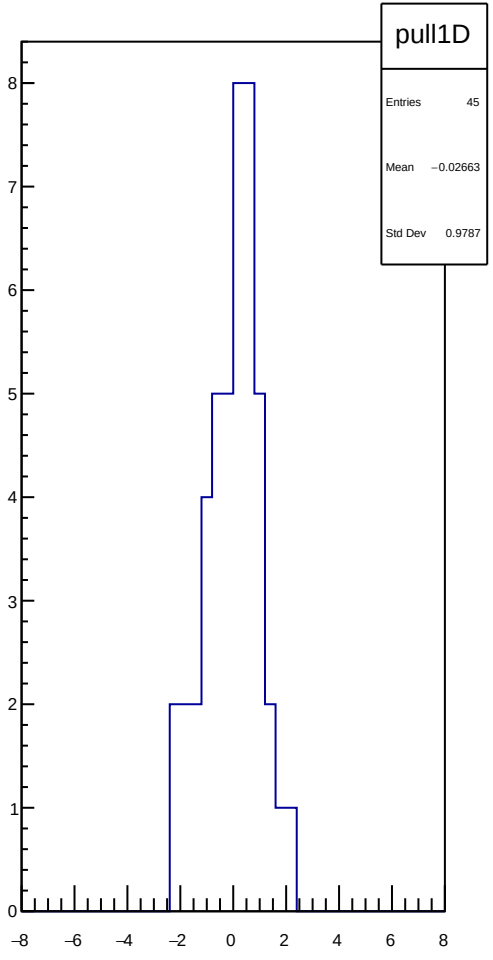

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.435e+04 / 44
p0 11.79 ± 0.0128
35
30
25
20
15
10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

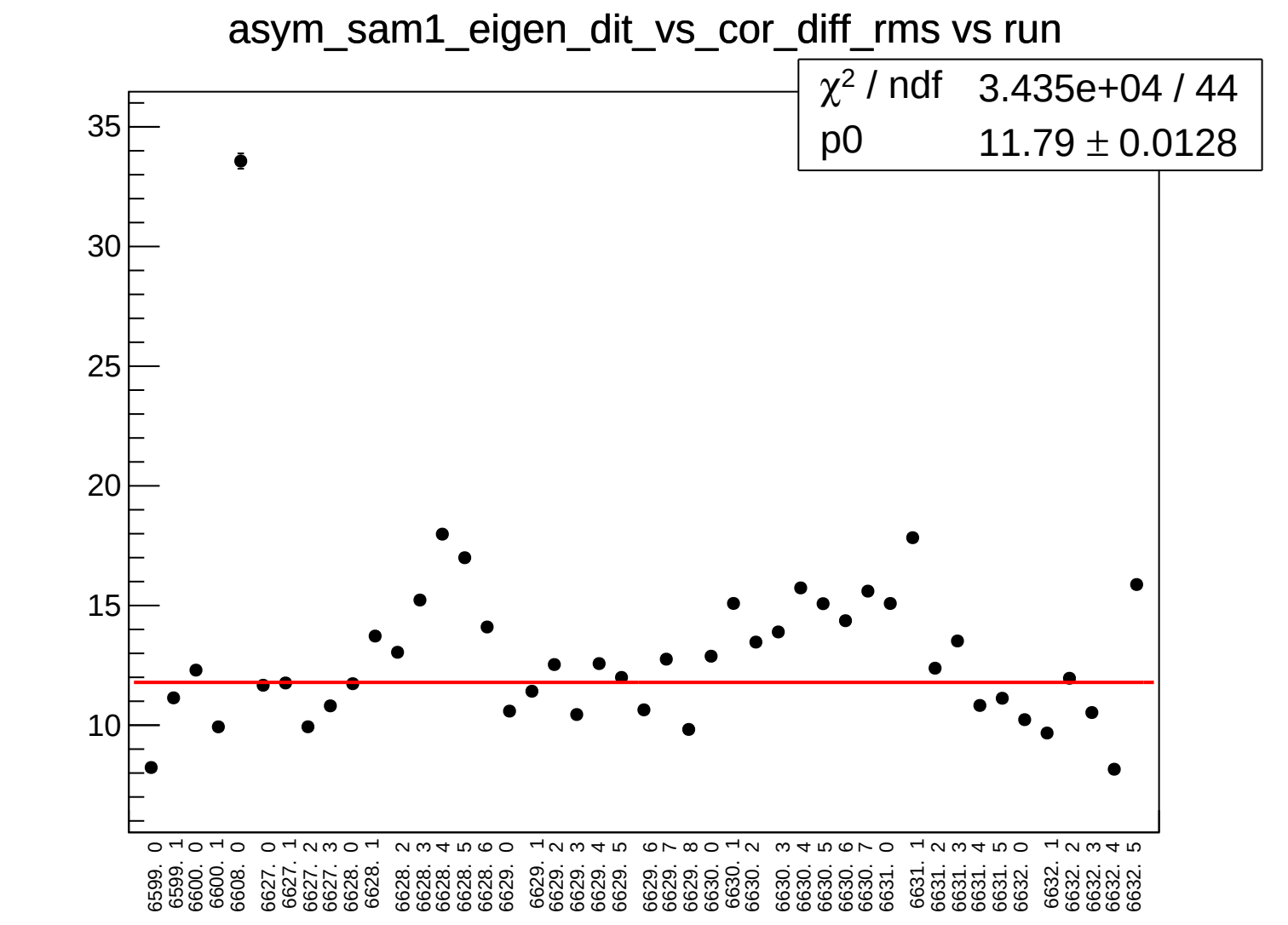

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 40.47 / 44
p0 −2.878e−06 ± 1.935e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 247.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.01166
Std Dev 0.9482
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6827 / 44
p0 0.00128 ± 1.368e−06
0.0015
0.0014
0.0013
0.0012
0.0011
0.001
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 43.14 / 44
p0 −0.02142 ± 0.0181
0.4
0.2
0
−0.2
−0.4
−0.6
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 45.49
Std Dev 14.76
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.02663
Std Dev 0.9787
8
7
6
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 3.435e+04 / 44
p0 11.79 ± 0.0128
35
30
25
20
15
10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
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6632. 0
6632. 1
6632. 2
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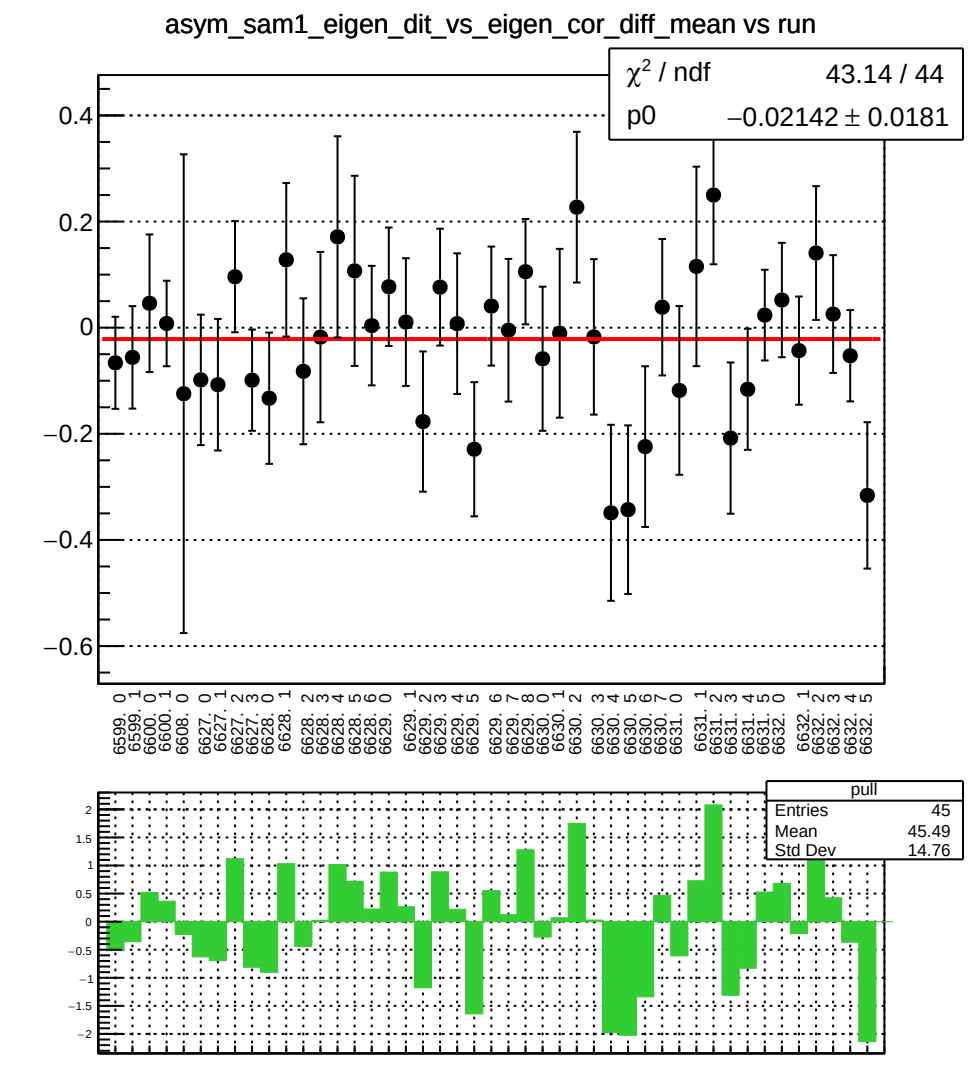
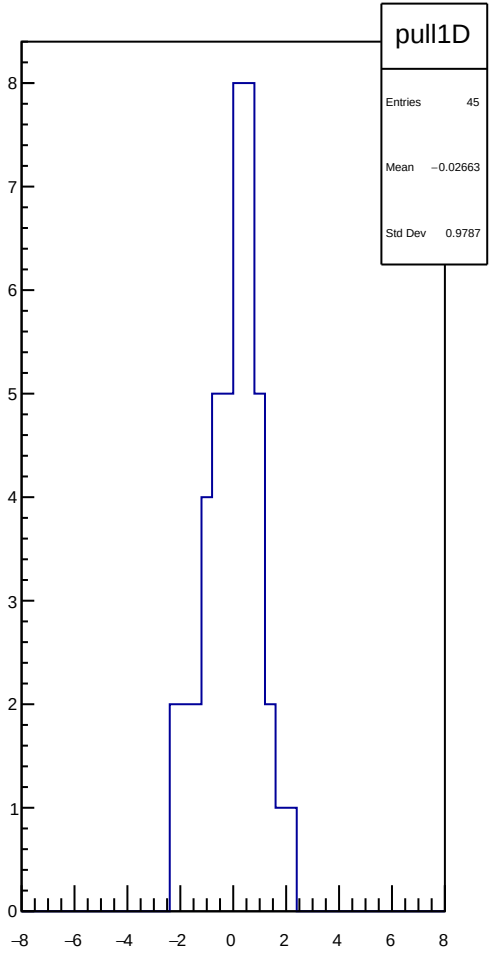
6632. 4
6632. 5


asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 43.14 / 44
p0 −0.02142 ± 0.0181
0.4
0.2
0
−0.2
−0.4
−0.6
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 45.49
Std Dev 14.76
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.02663
Std Dev 0.9787
8
7
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−4
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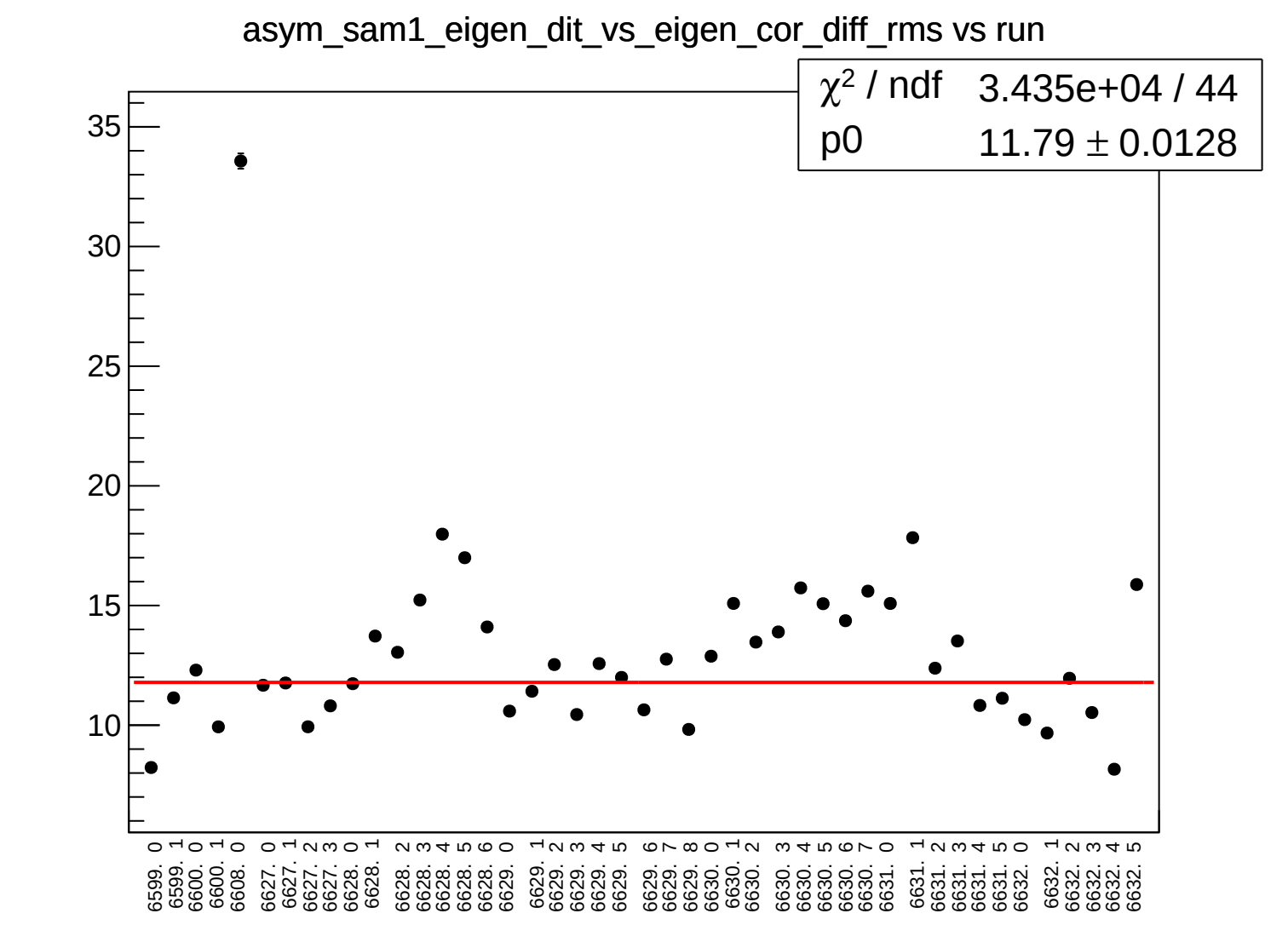
2
4
6
8


asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.435e+04 / 44
p0 11.79 ± 0.0128
35
30
25
20
15
10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6632. 2
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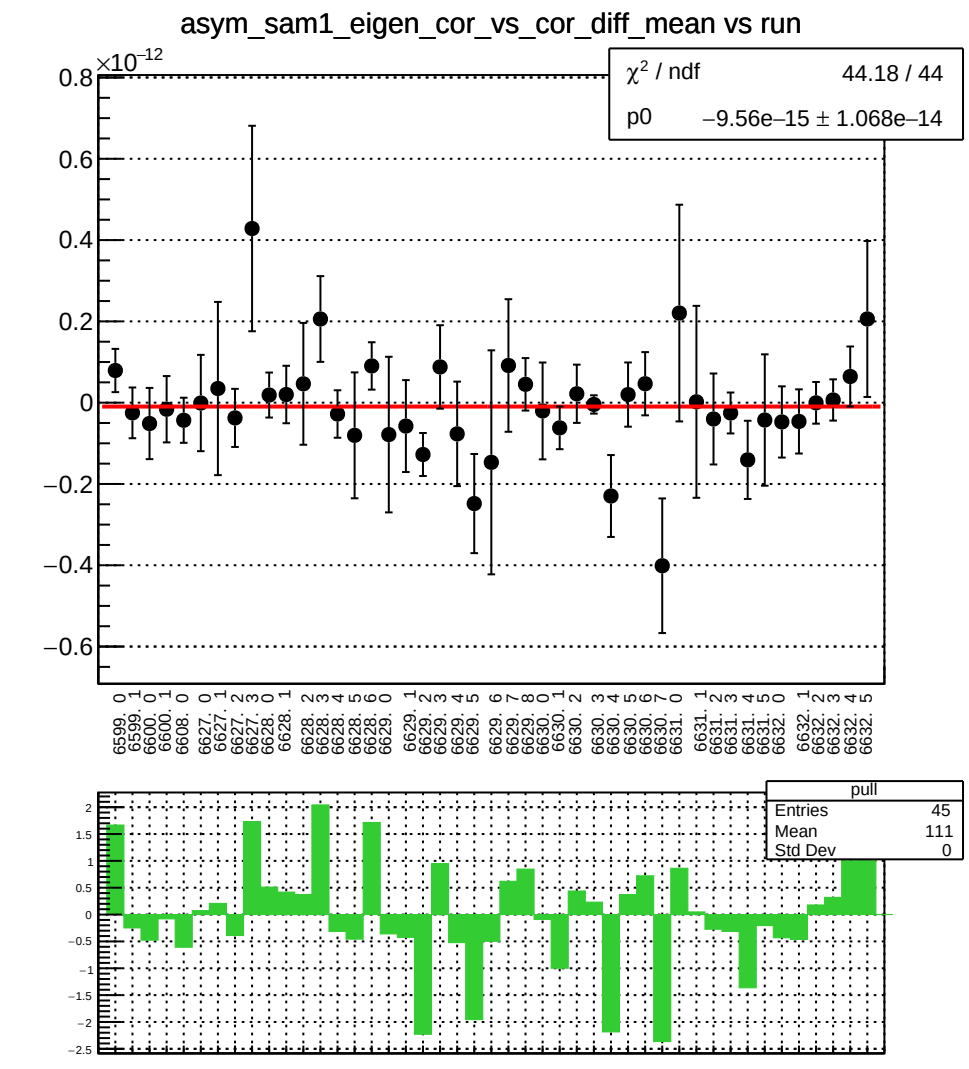
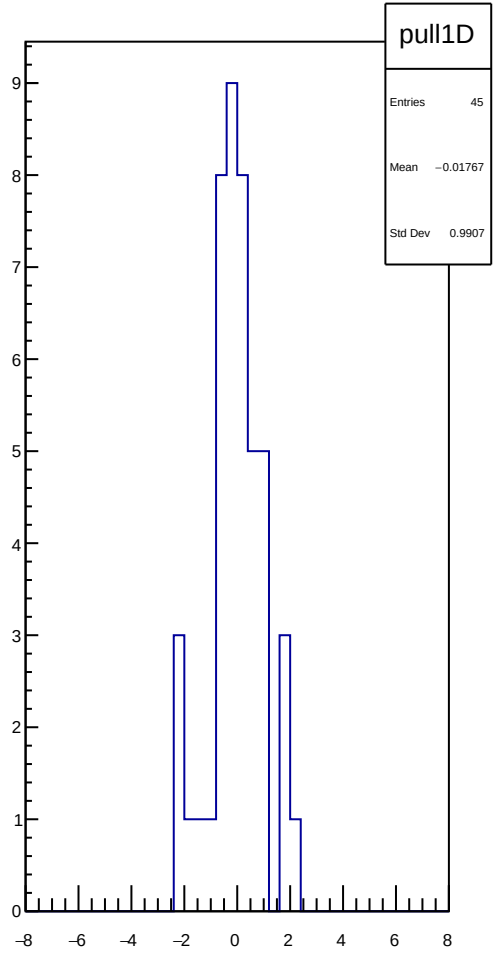
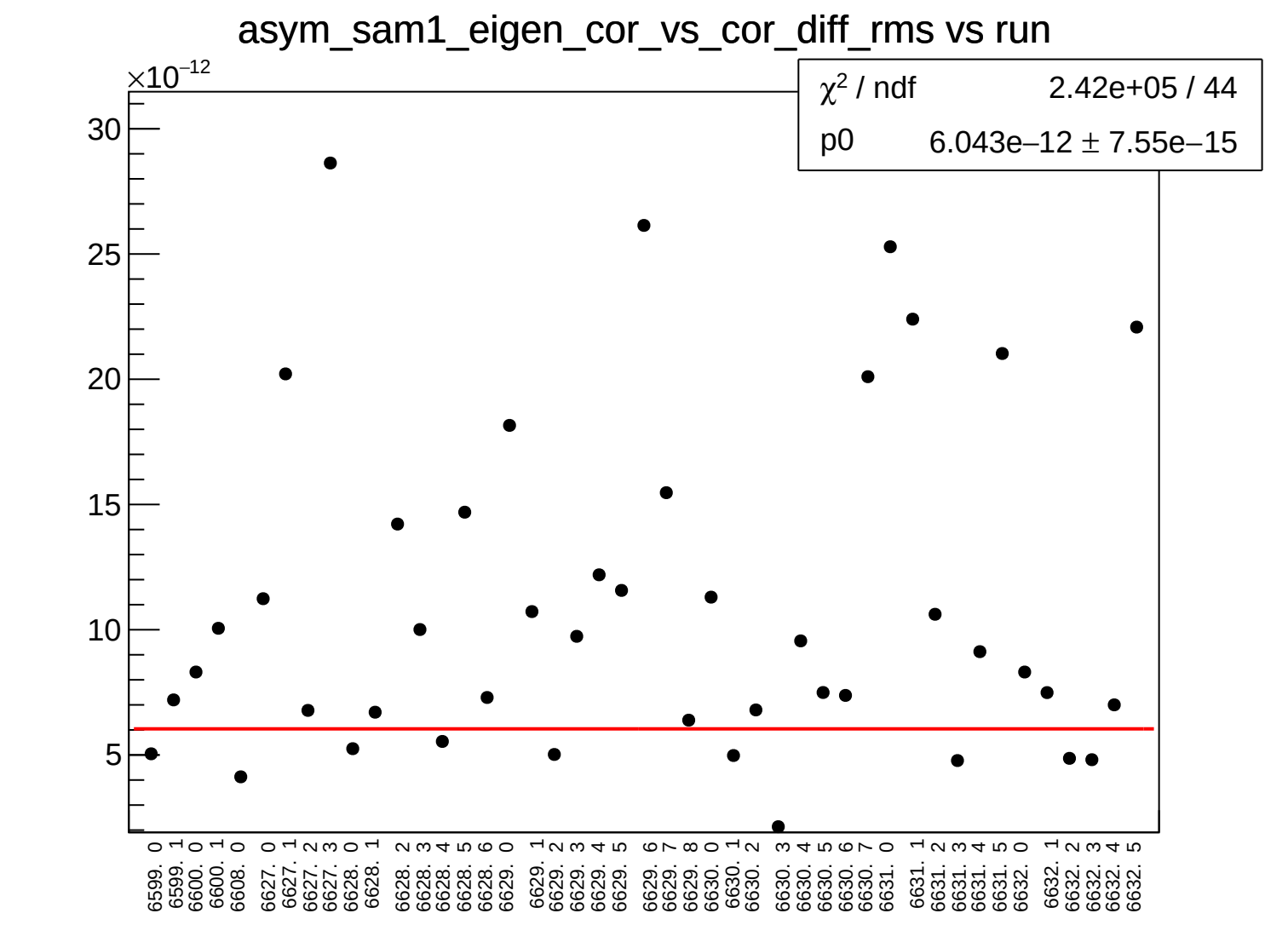
6632. 4
6632. 5


asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 44.18 / 44
p0 −9.56e−15 ± 1.068e−14
pull
Entries 45
Mean 111
Std Dev 0


pull1D
Entries 45
Mean −0.01767
Std Dev 0.9907


asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.42e+05 / 44
p0 6.043e−12 ± 7.55e−15
30
25
20
15
10
5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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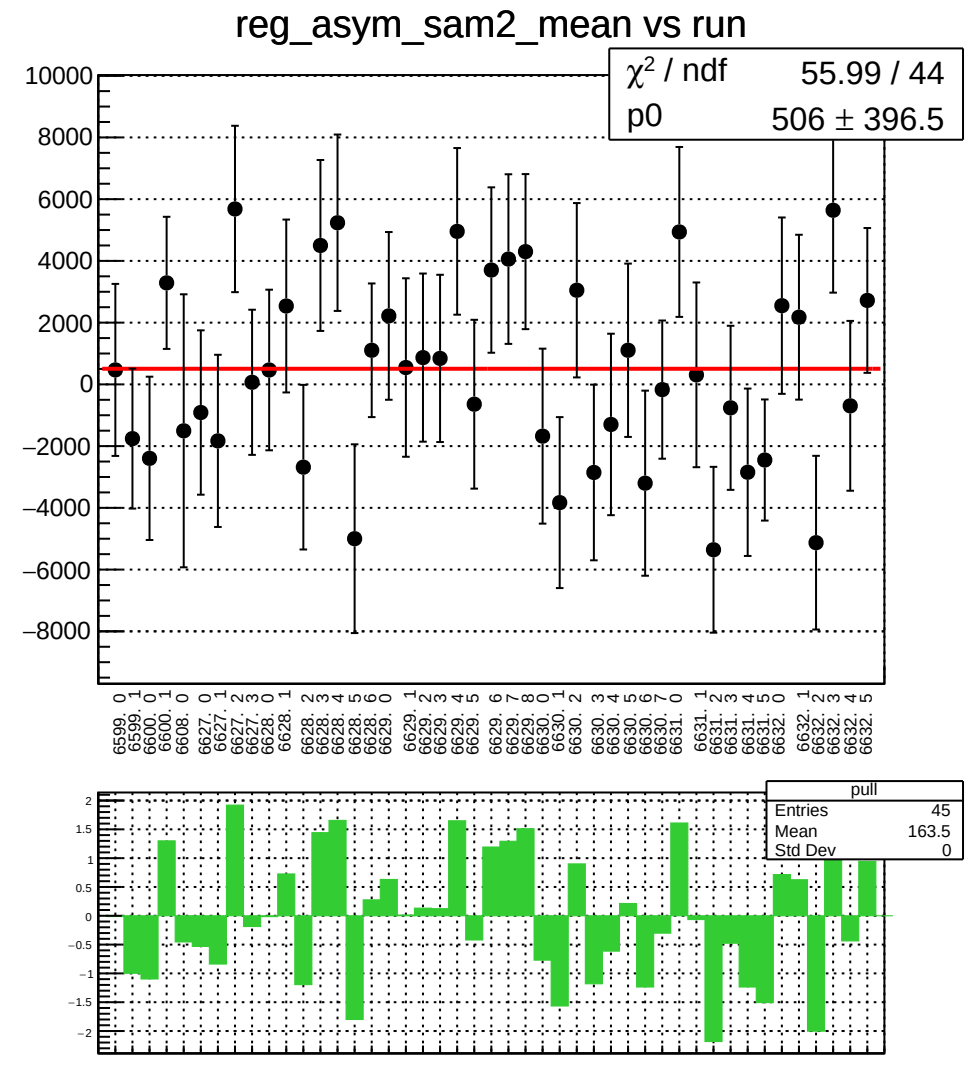
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


reg_asym_sam2_mean vs run
χ² / ndf 55.99 / 44
p0 506 ± 396.5
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
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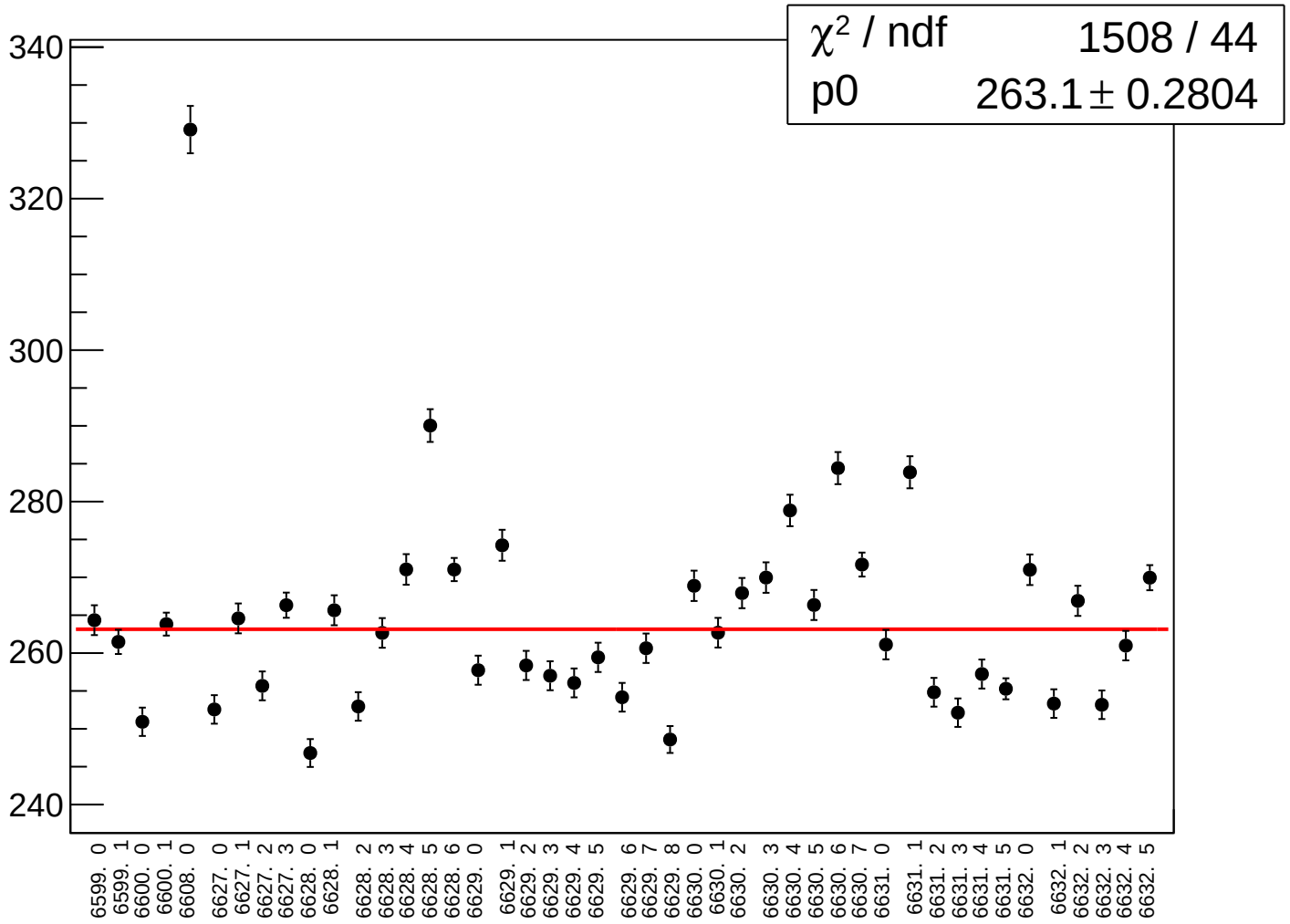
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 163.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.007223
Std Dev 1.115
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam2_rms vs run
χ² / ndf 1508 / 44
p0 263.1 ± 0.2804
340
320
300
280
260
240
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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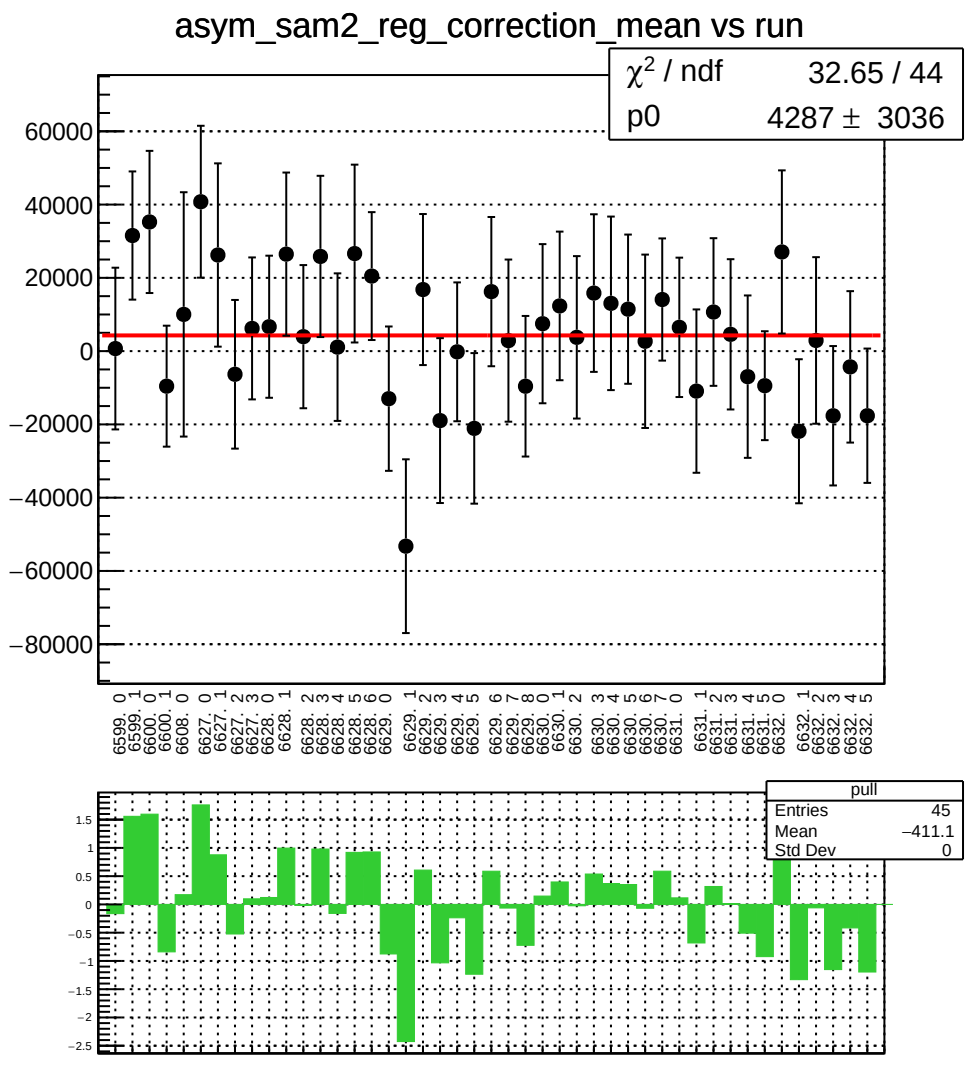
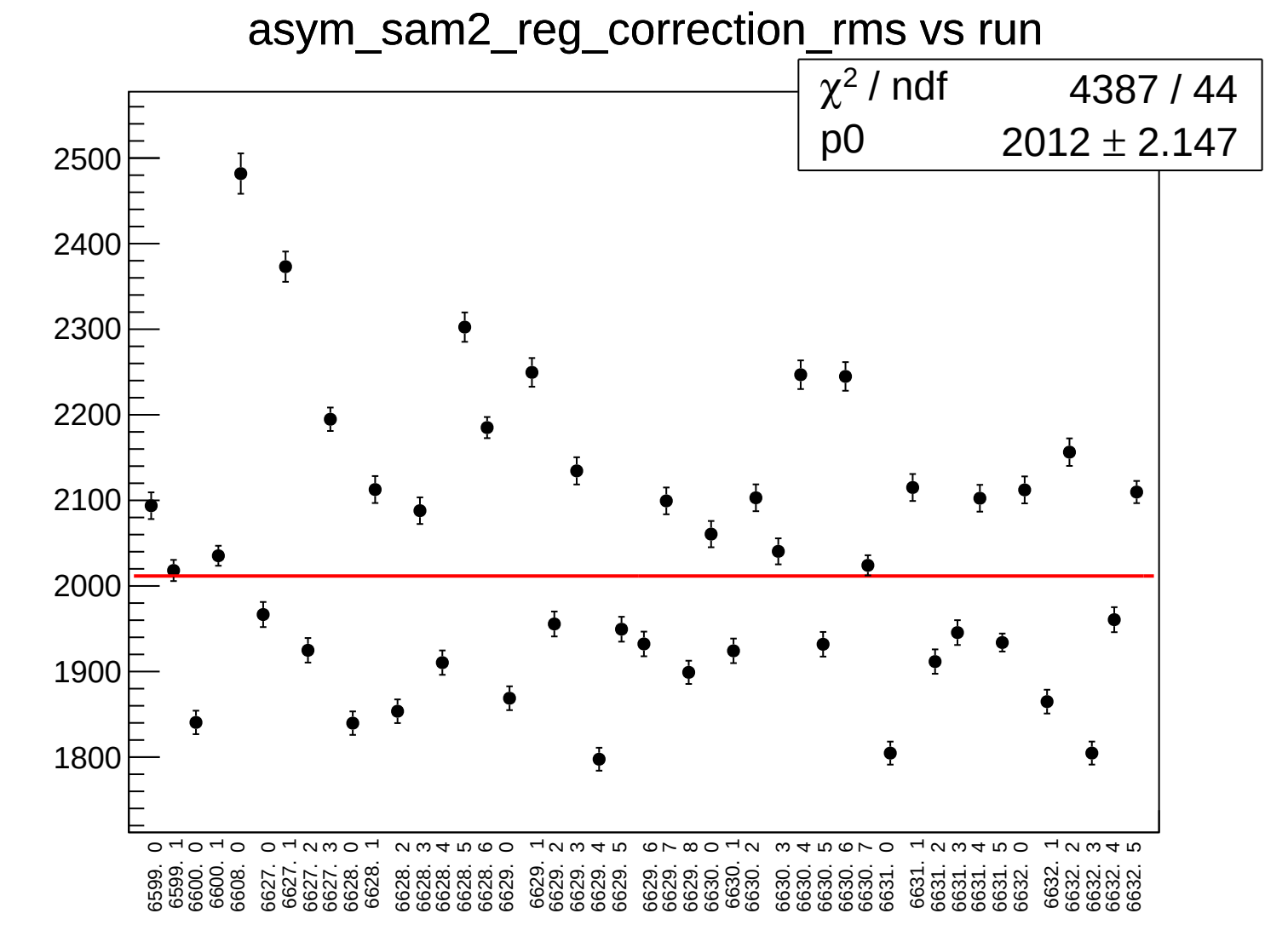
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam2_reg_correction_mean vs run
χ² / ndf 32.65 / 44
p0 4287 ± 3036
pull
Entries 45
Mean −411.1
Std Dev 0
pull1D
Entries 45
Mean 0.009124
Std Dev 0.8518


asym_sam2_reg_correction_rms vs run
χ² / ndf 4387 / 44
p0 2012 ± 2.147
2500
2400
2300
2200
2100
2000
1900
1800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
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6629. 6
6629. 7
6629. 8
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6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
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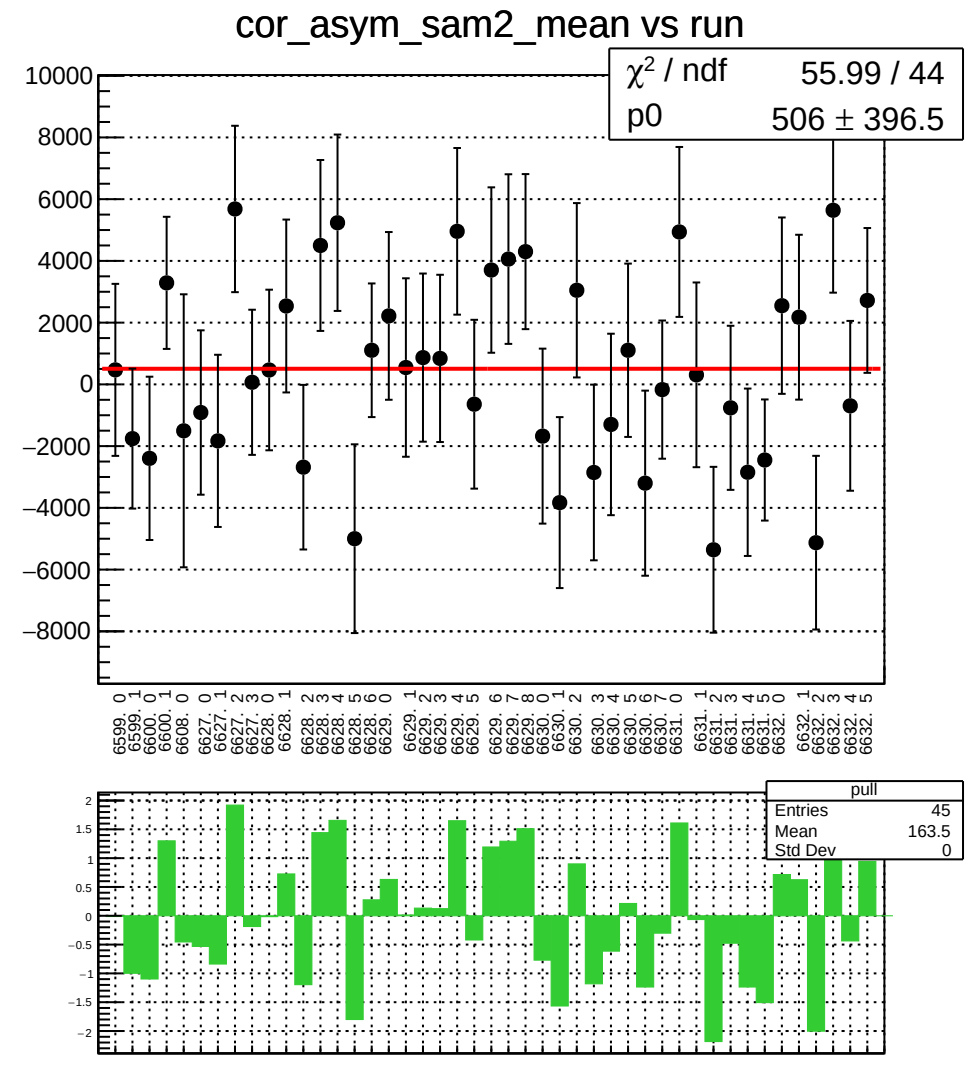
cor_asym_sam2_mean vs run
χ² / ndf 55.99 / 44
p0 506 ± 396.5
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 2
6627. 3
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6628. 2
6628. 3
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6628. 5
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6629. 2
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6629. 8
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6630. 1
6630. 2
6630. 3
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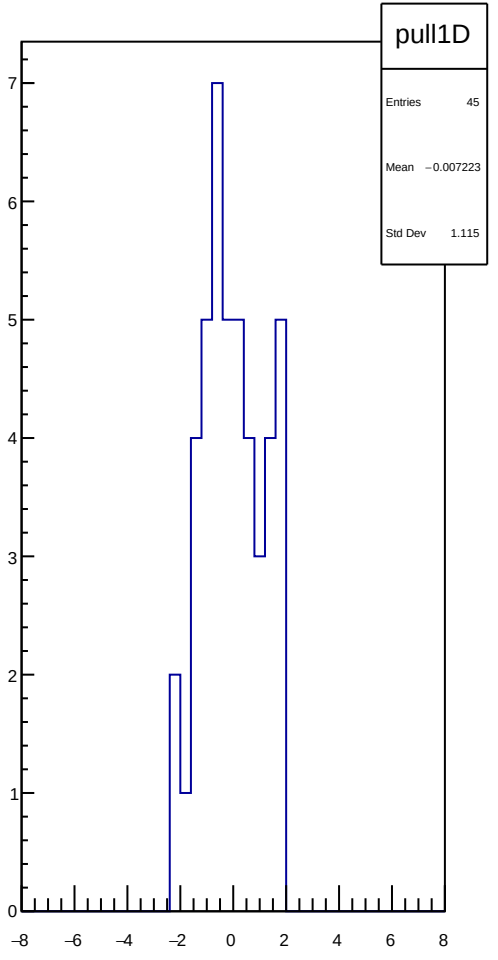
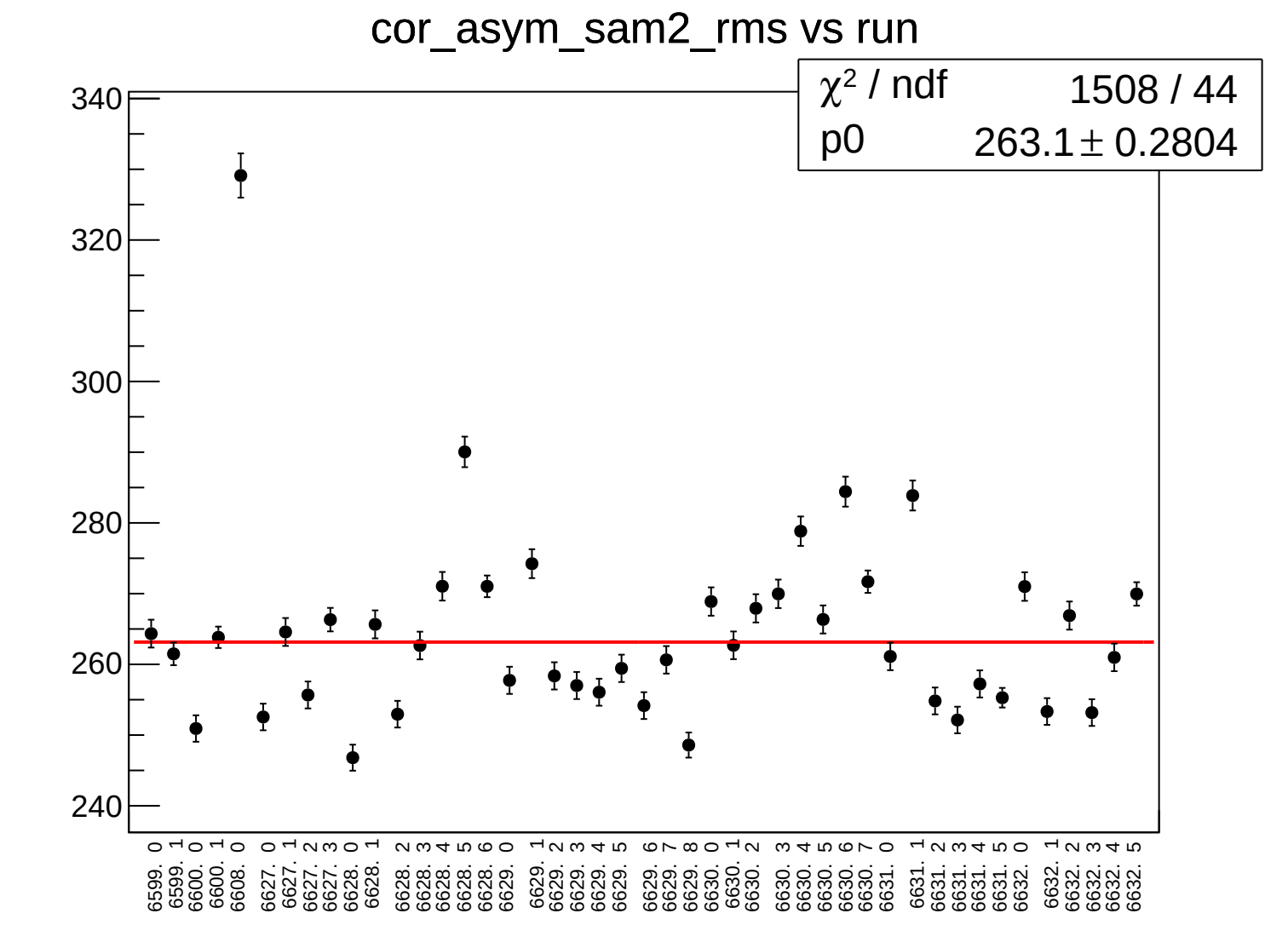
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 163.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.007223
Std Dev 1.115
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam2_rms vs run
χ² / ndf 1508 / 44
p0 263.1 ± 0.2804
340
320
300
280
260
240
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
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6629. 5
6629. 6
6629. 7
6629. 8
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6630. 2
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6630. 4
6630. 5
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6631. 0
6631. 1
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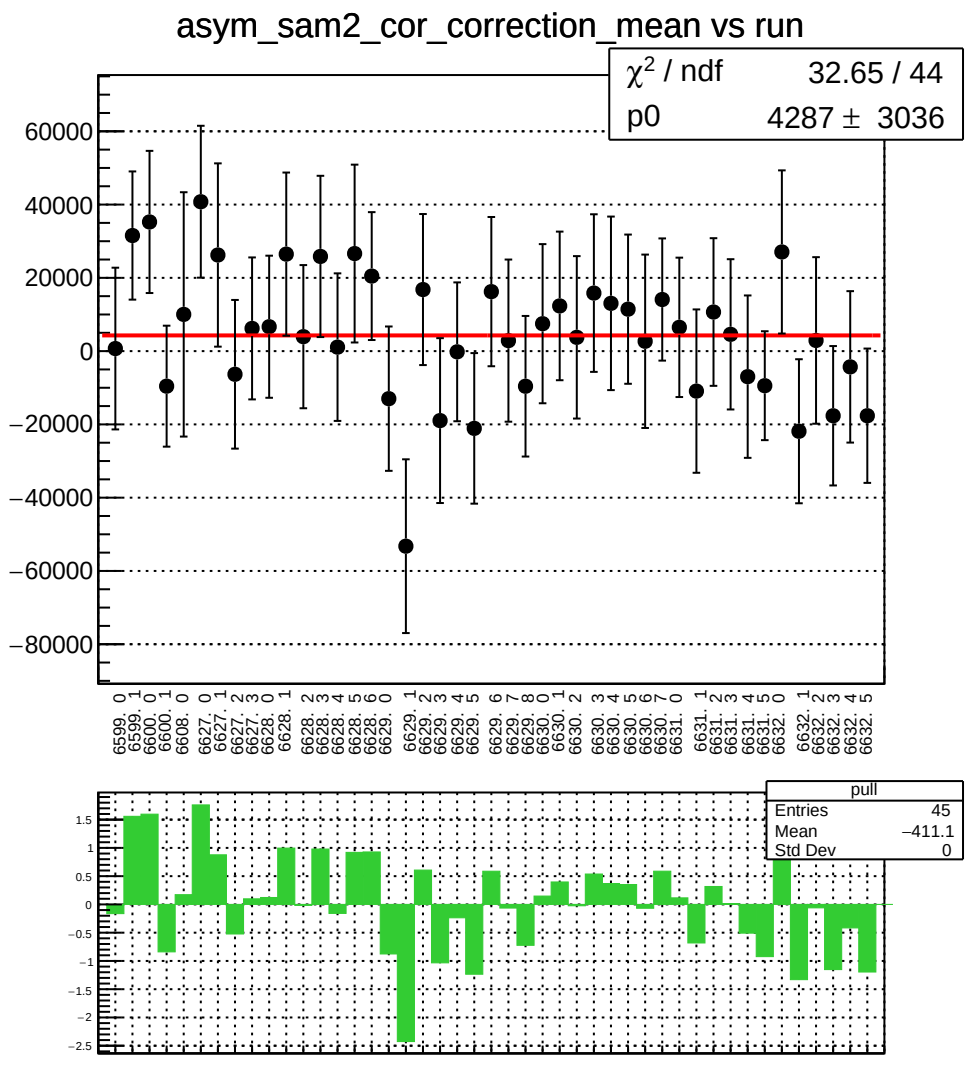
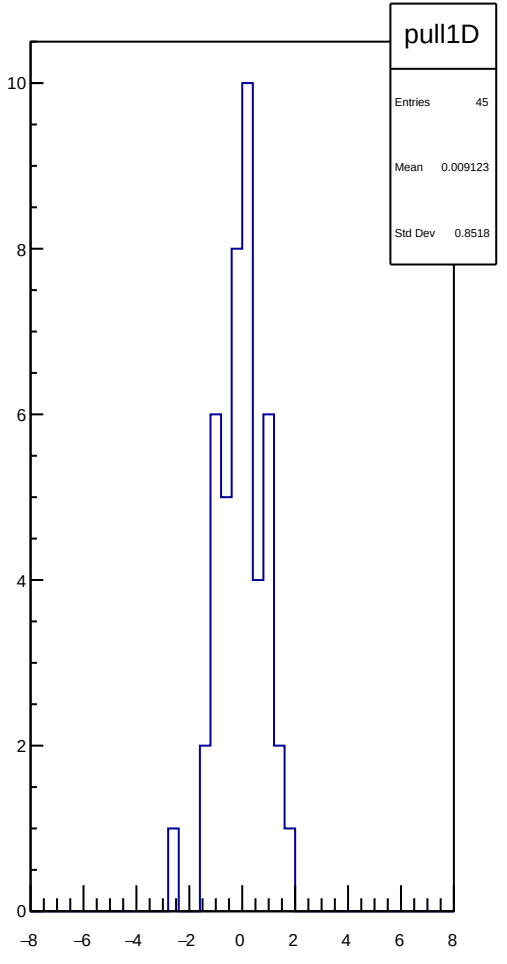
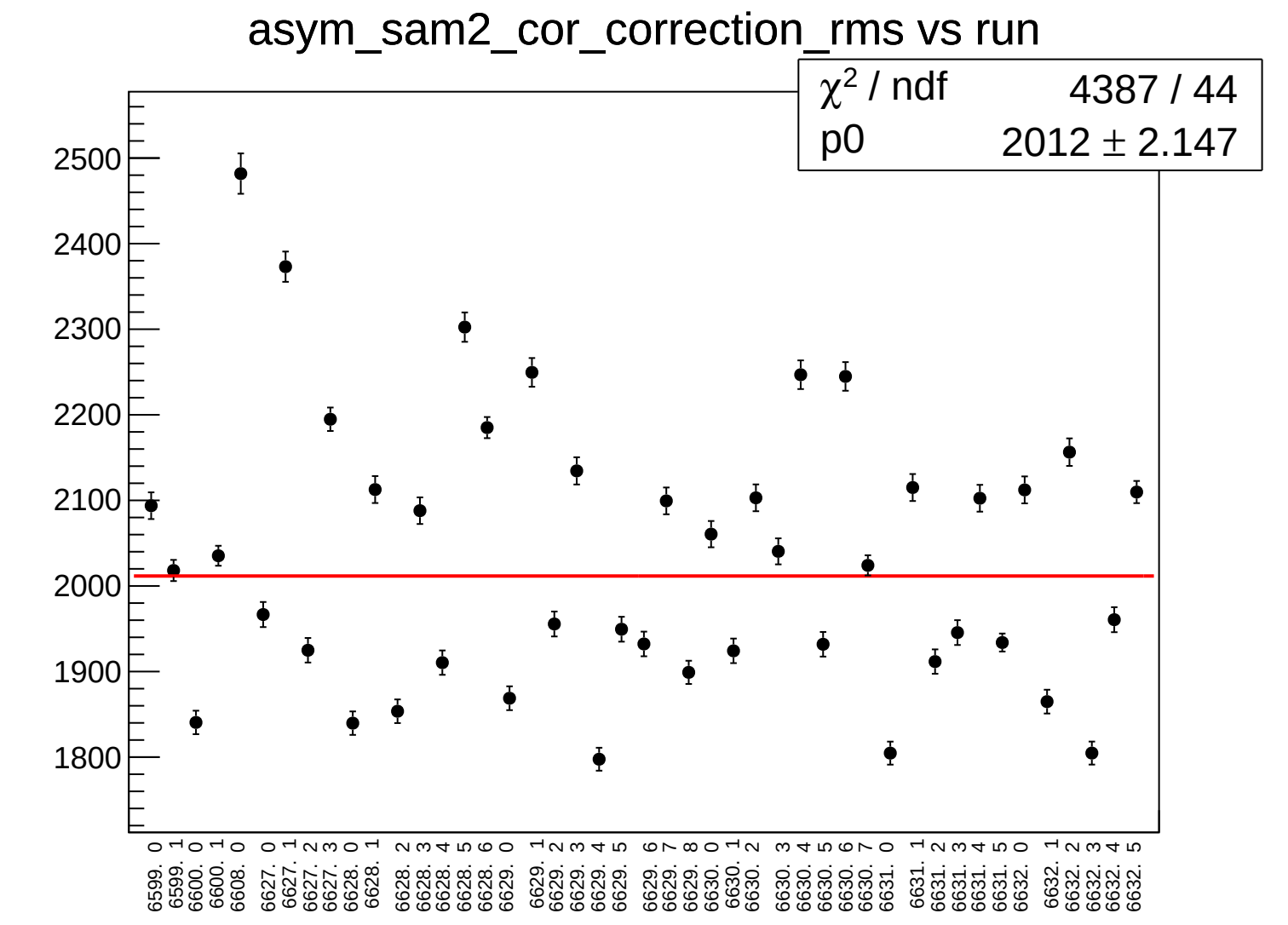

asym_sam2_cor_correction_mean vs run
χ² / ndf 32.65 / 44
p0 4287 ± 3036
pull
Entries 45
Mean −411.1
Std Dev 0


pull1D
Entries 45
Mean 0.009123
Std Dev 0.8518


asym_sam2_cor_correction_rms vs run
χ² / ndf 4387 / 44
p0 2012 ± 2.147
2500
2400
2300
2200
2100
2000
1900
1800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
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6630. 1
6630. 2
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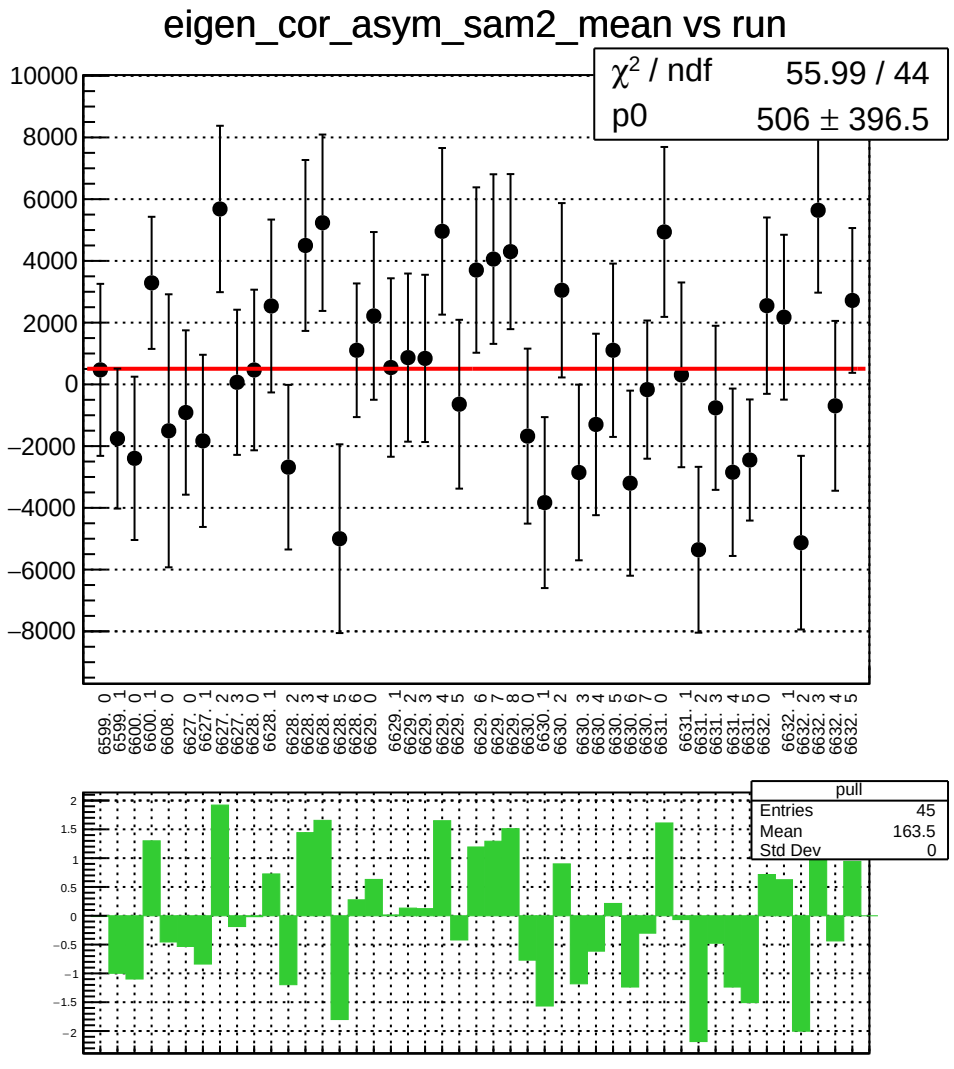
6632. 5


eigen_cor_asym_sam2_mean vs run
χ² / ndf 55.99 / 44
p0 506 ± 396.5
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 163.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.007223
Std Dev 1.115
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5
4
3
2
1
0
−8
−6
−4
−2
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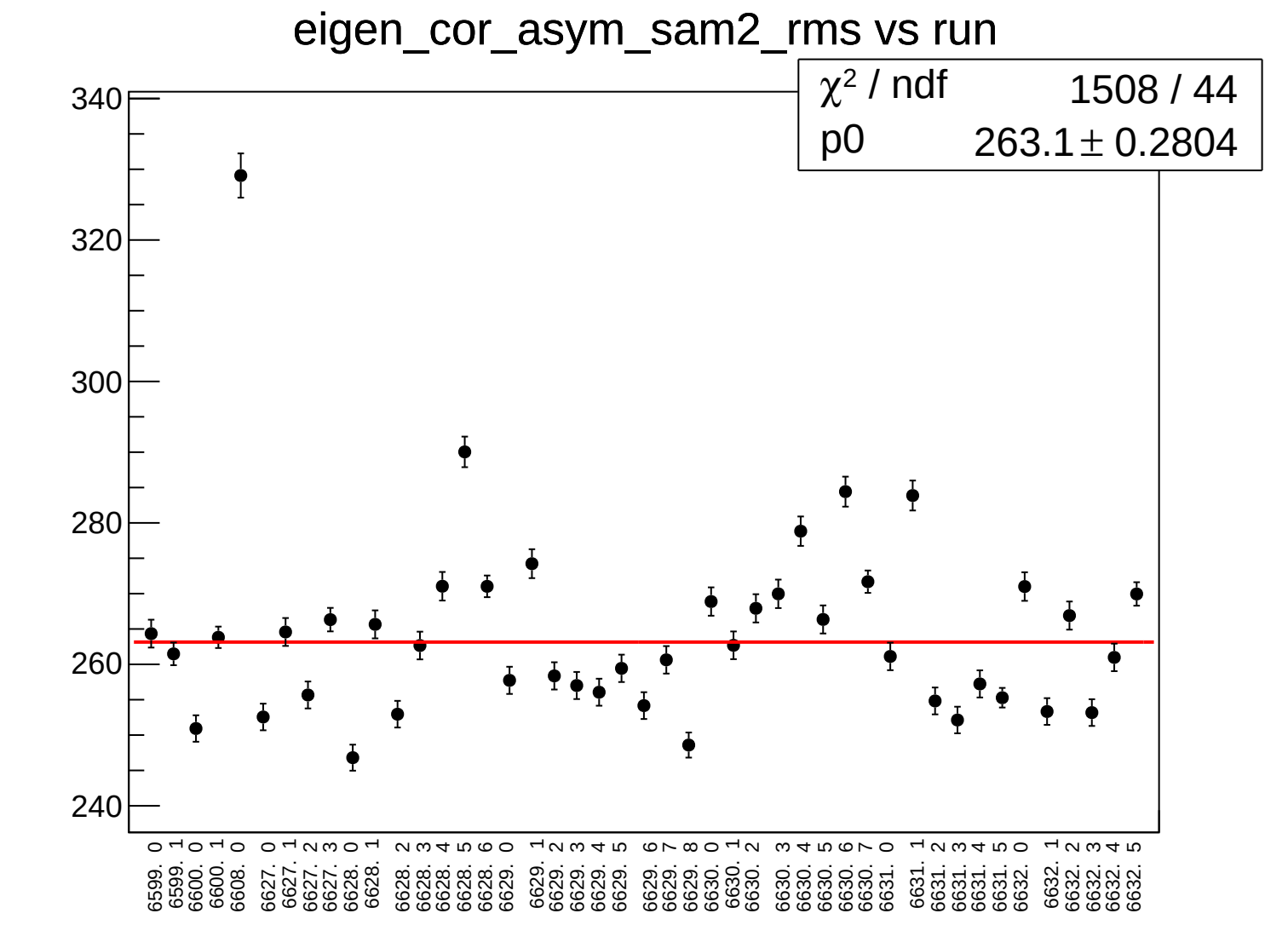
2
4
6
8


eigen_cor_asym_sam2_rms vs run
χ² / ndf 1508 / 44
p0 263.1 ± 0.2804
340
320
300
280
260
240
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
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6630. 5
6630. 6
6630. 7
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6631. 1
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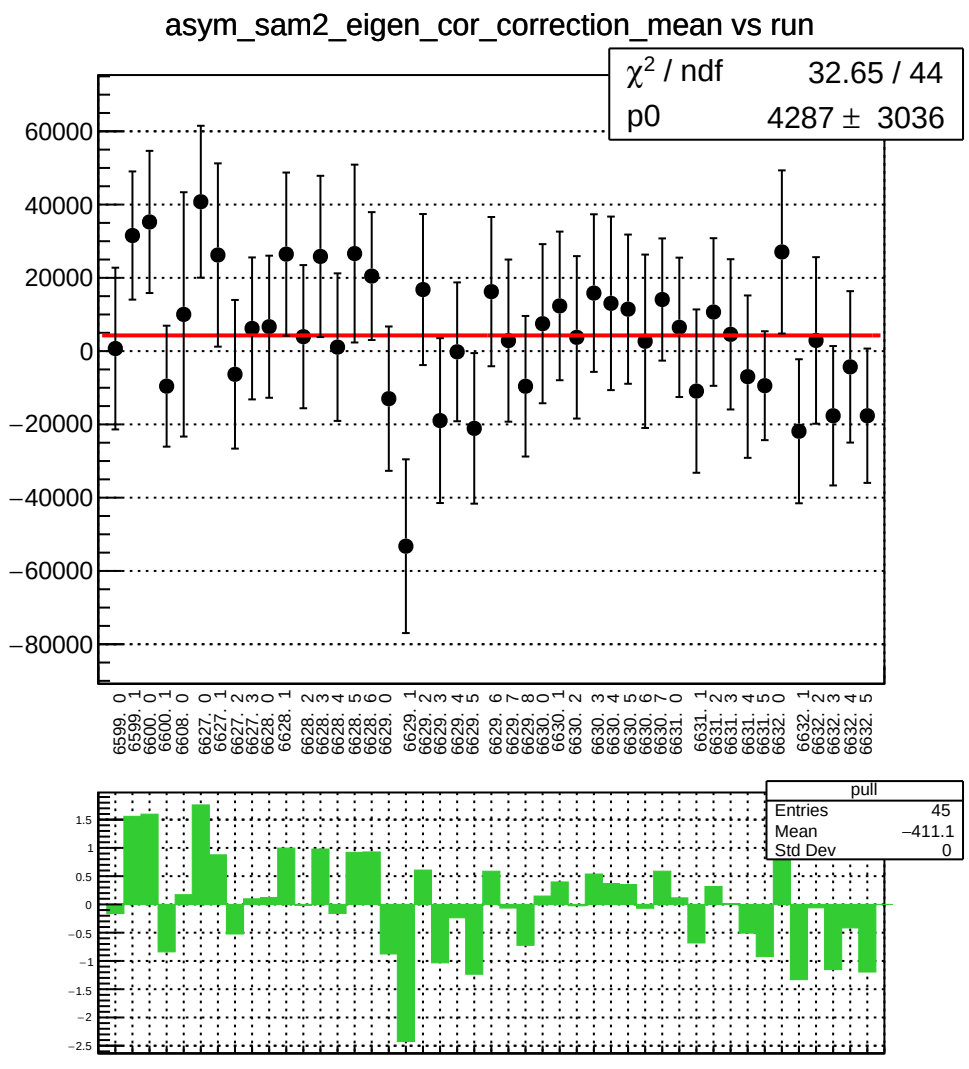
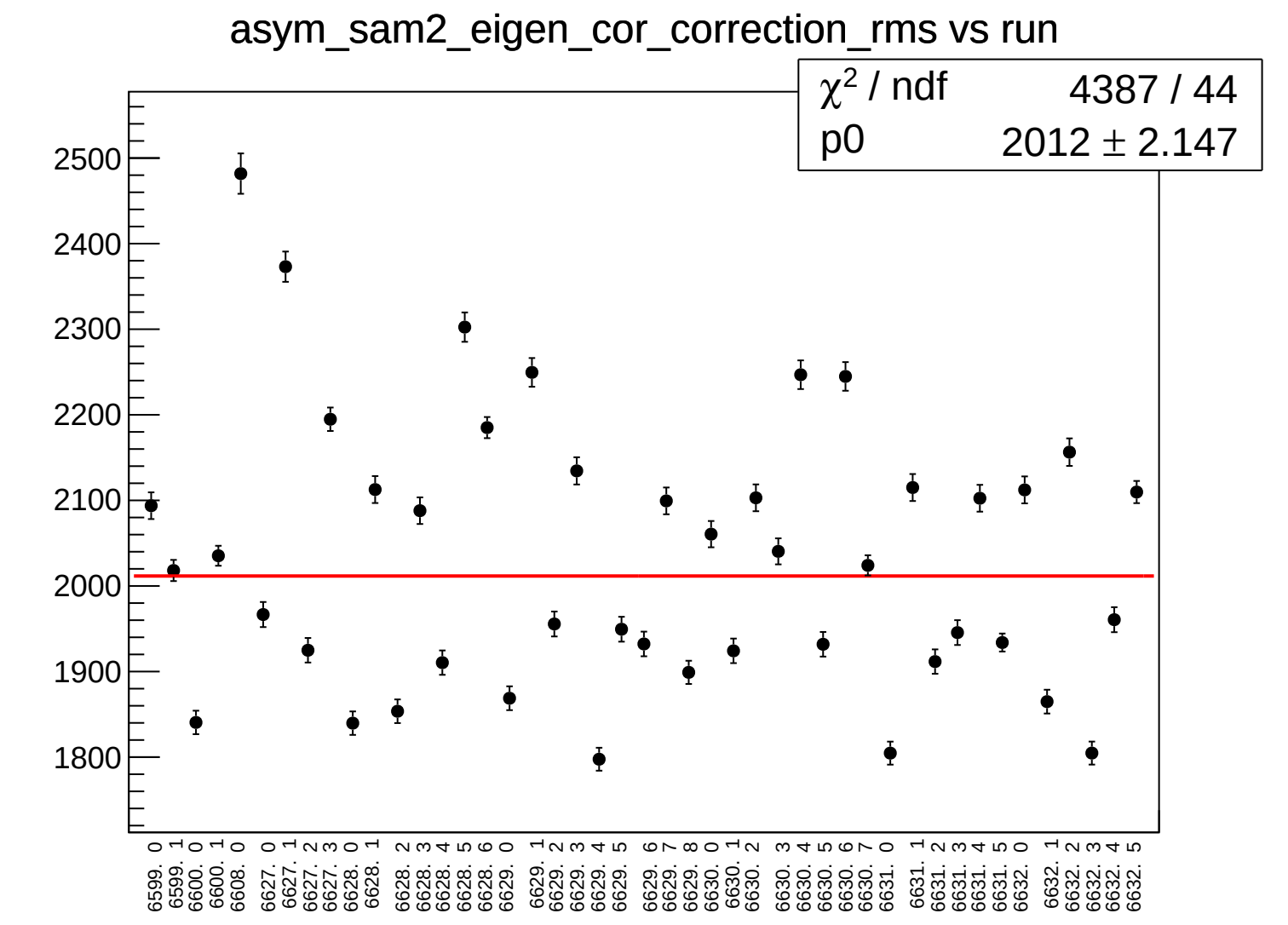
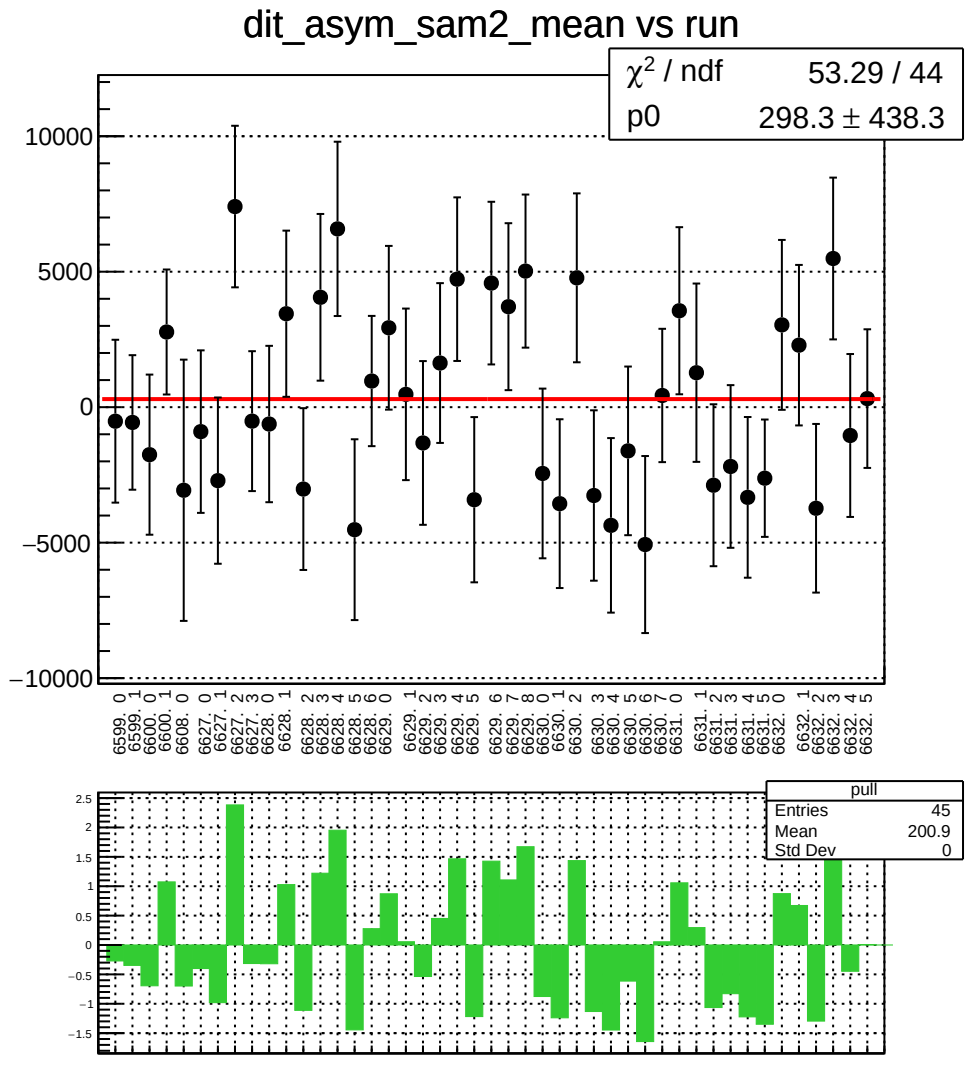
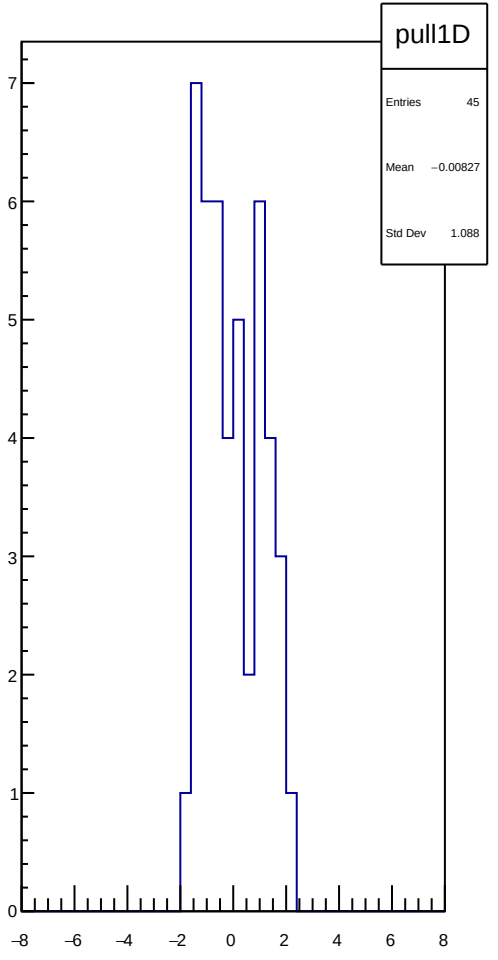
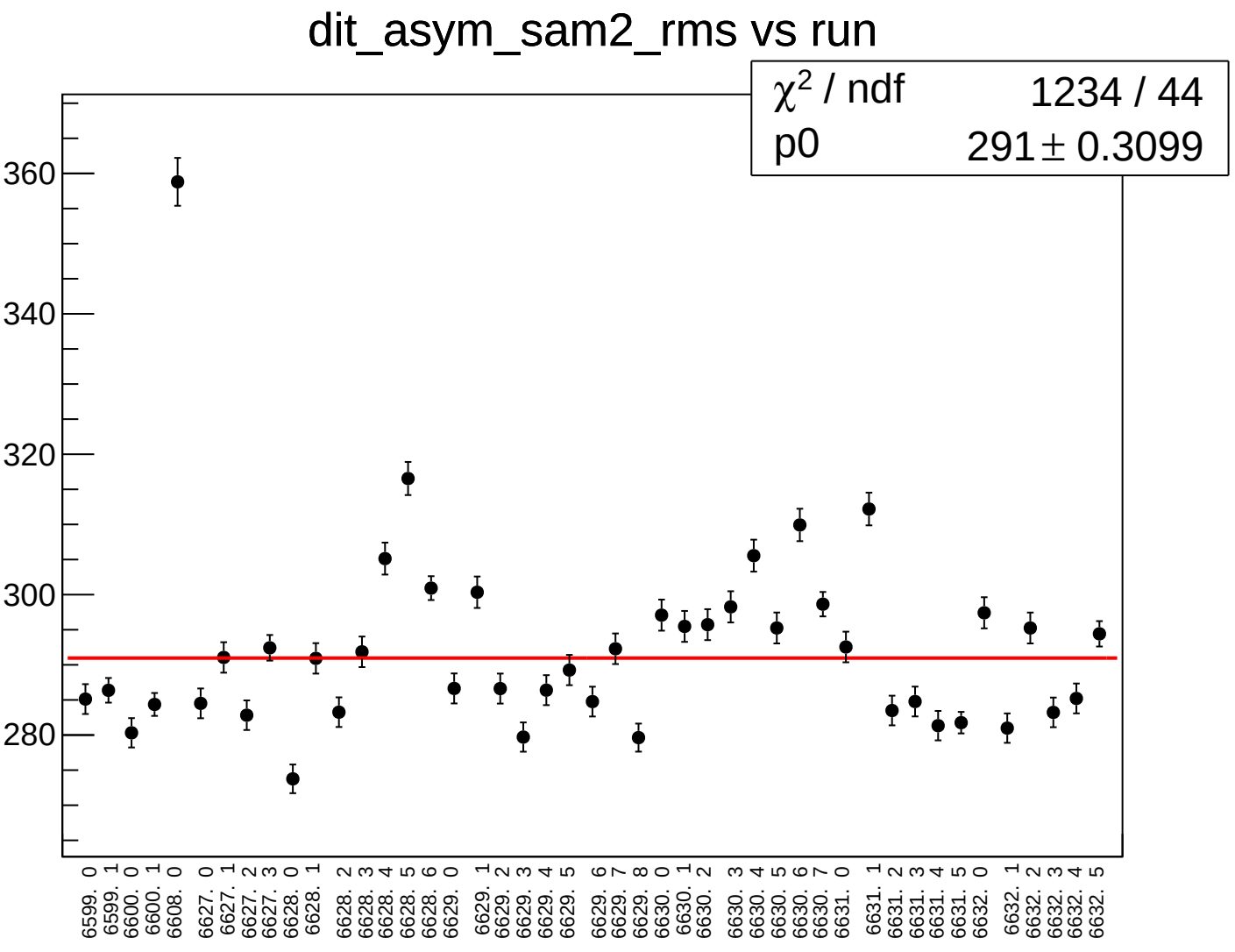
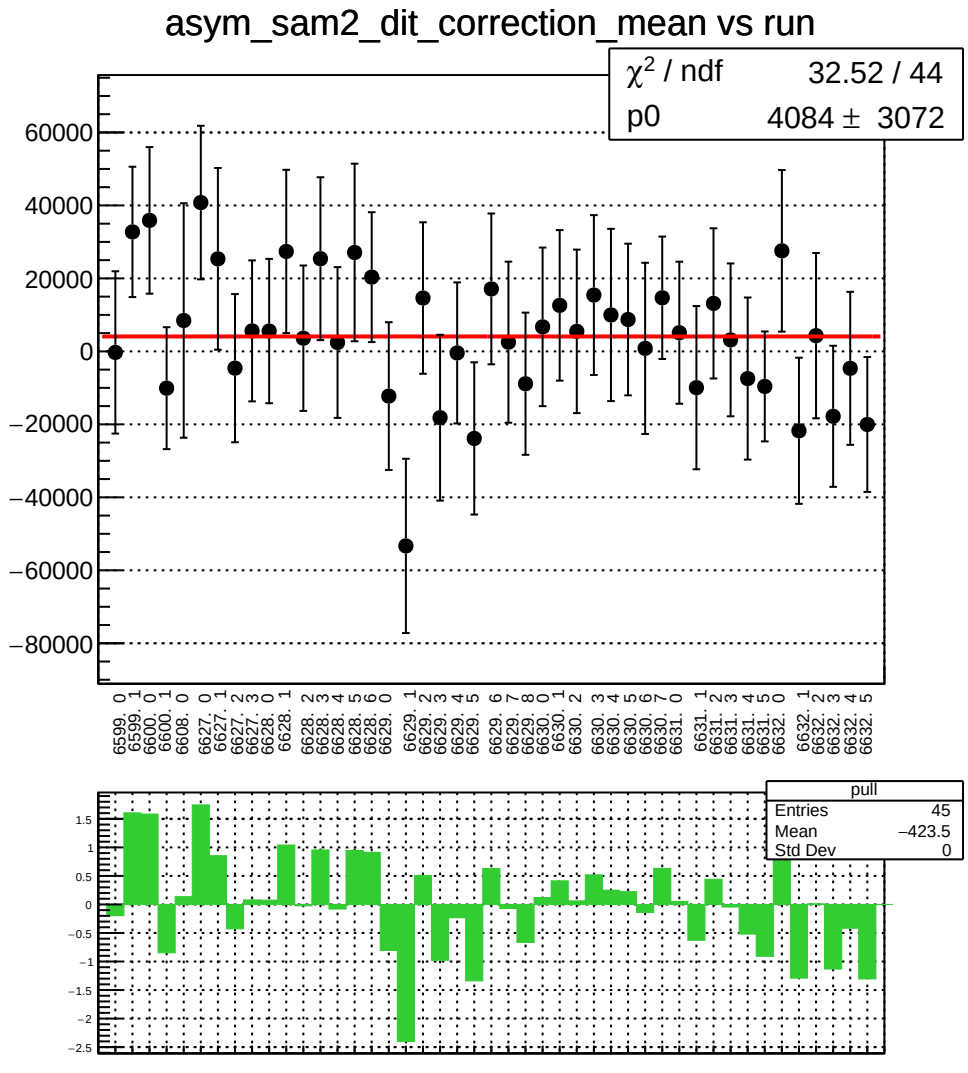

asym_sam2_eigen_cor_correction_mean vs run
χ² / ndf 32.65 / 44
p0 4287 ± 3036
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −411.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.009123
Std Dev 0.8518
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

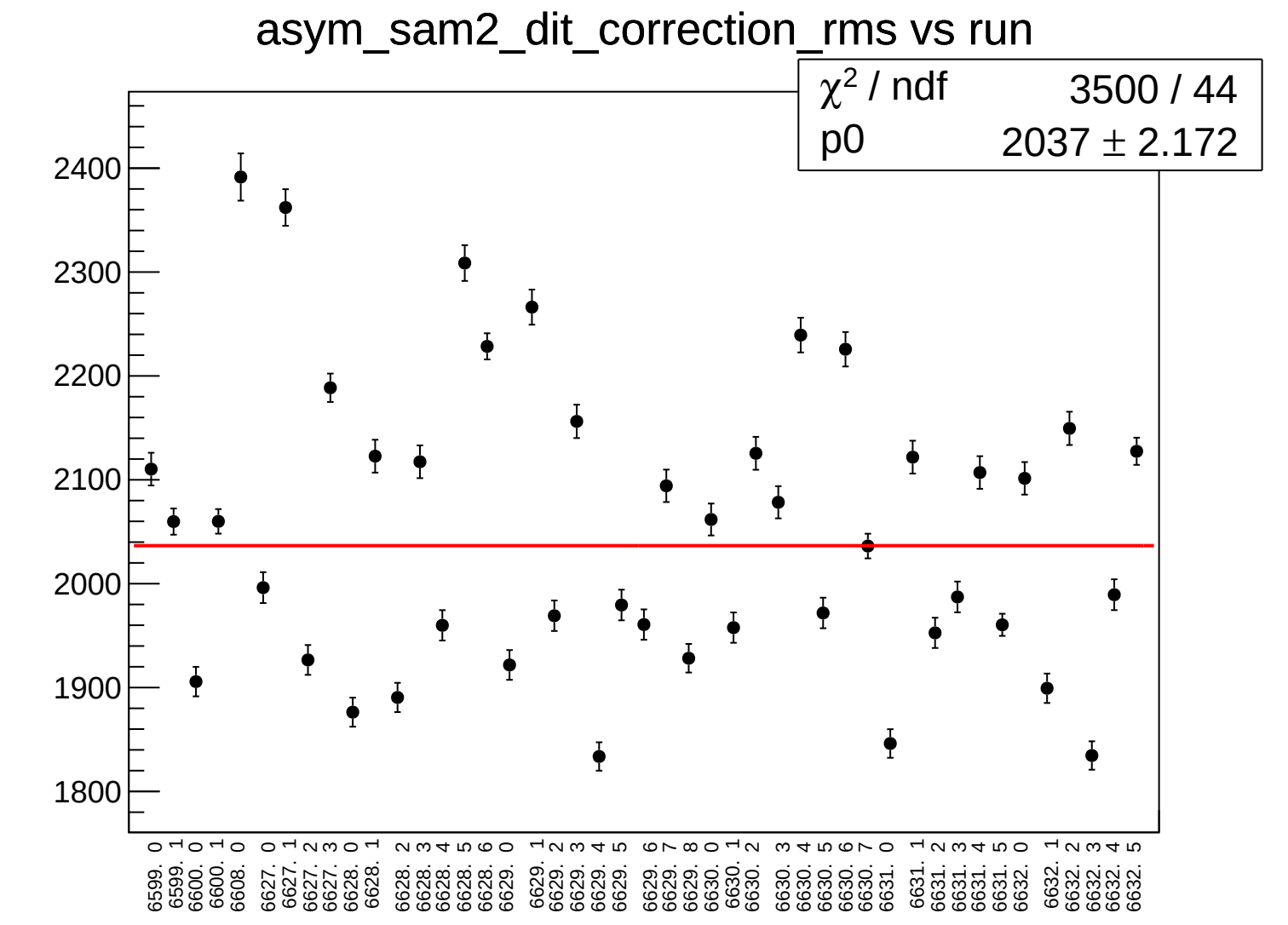

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 4387 / 44
p0 2012 ± 2.147
2500
2400
2300
2200
2100
2000
1900
1800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

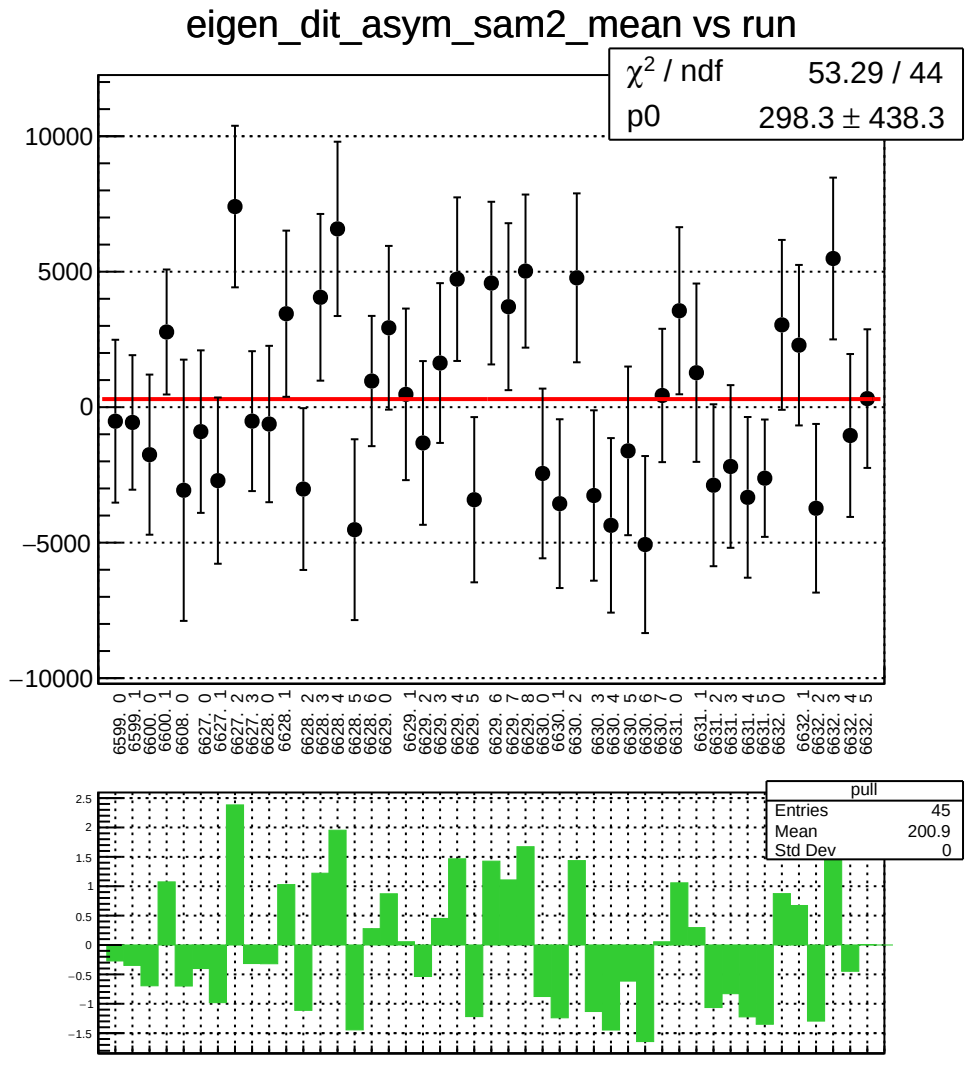

dit_asym_sam2_mean vs run
χ² / ndf 53.29 / 44
p0 298.3 ± 438.3
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 200.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

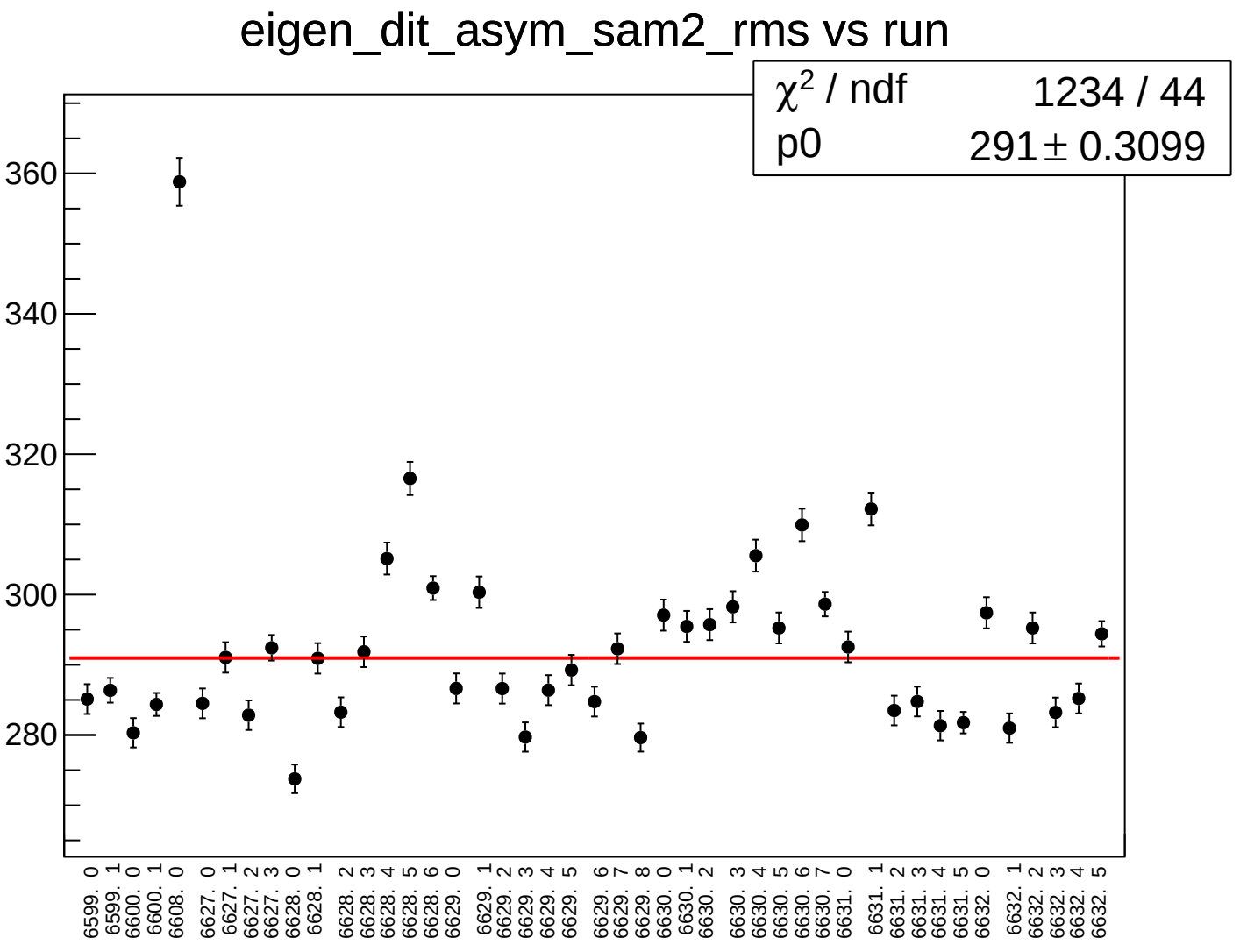

pull1D
Entries 45
Mean −0.00827
Std Dev 1.088
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

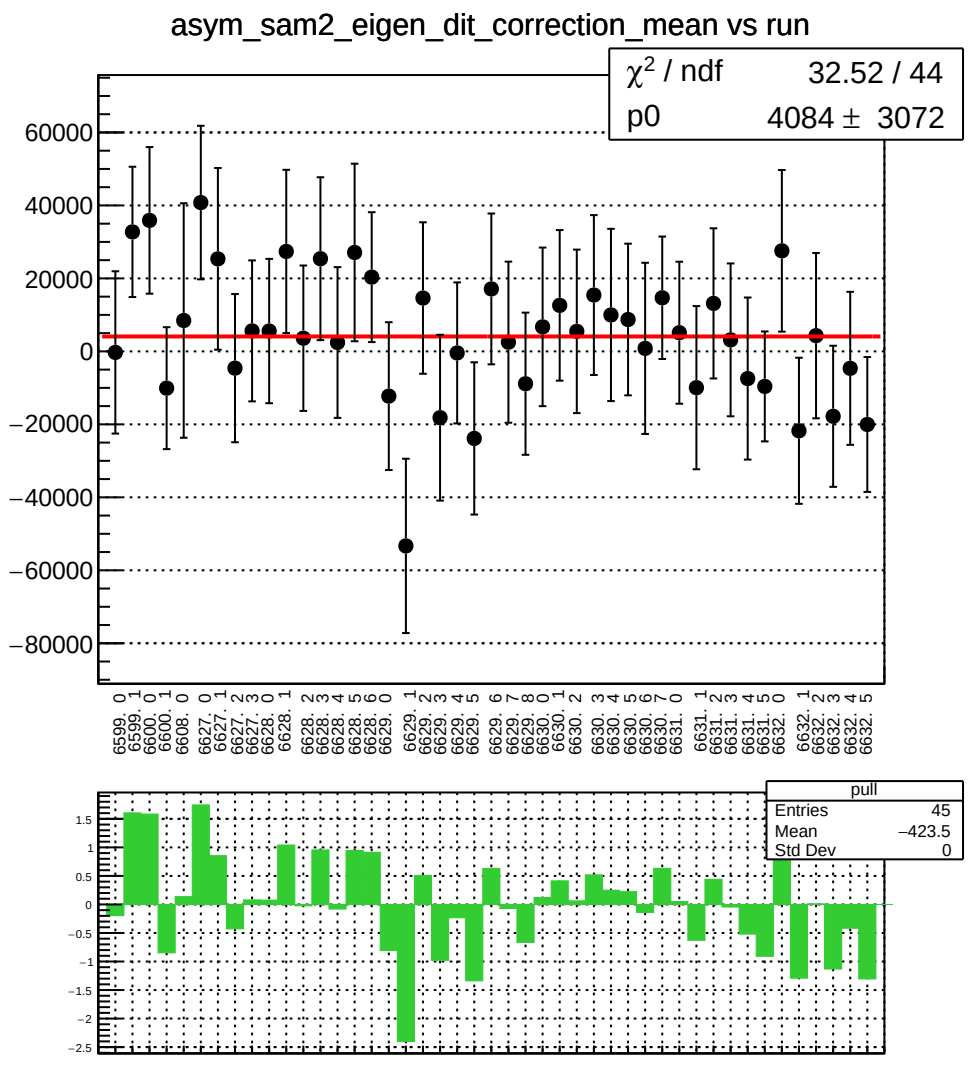

dit_asym_sam2_rms vs run
χ² / ndf 1234 / 44
p0 291 ± 0.3099
360
340
320
300
280
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

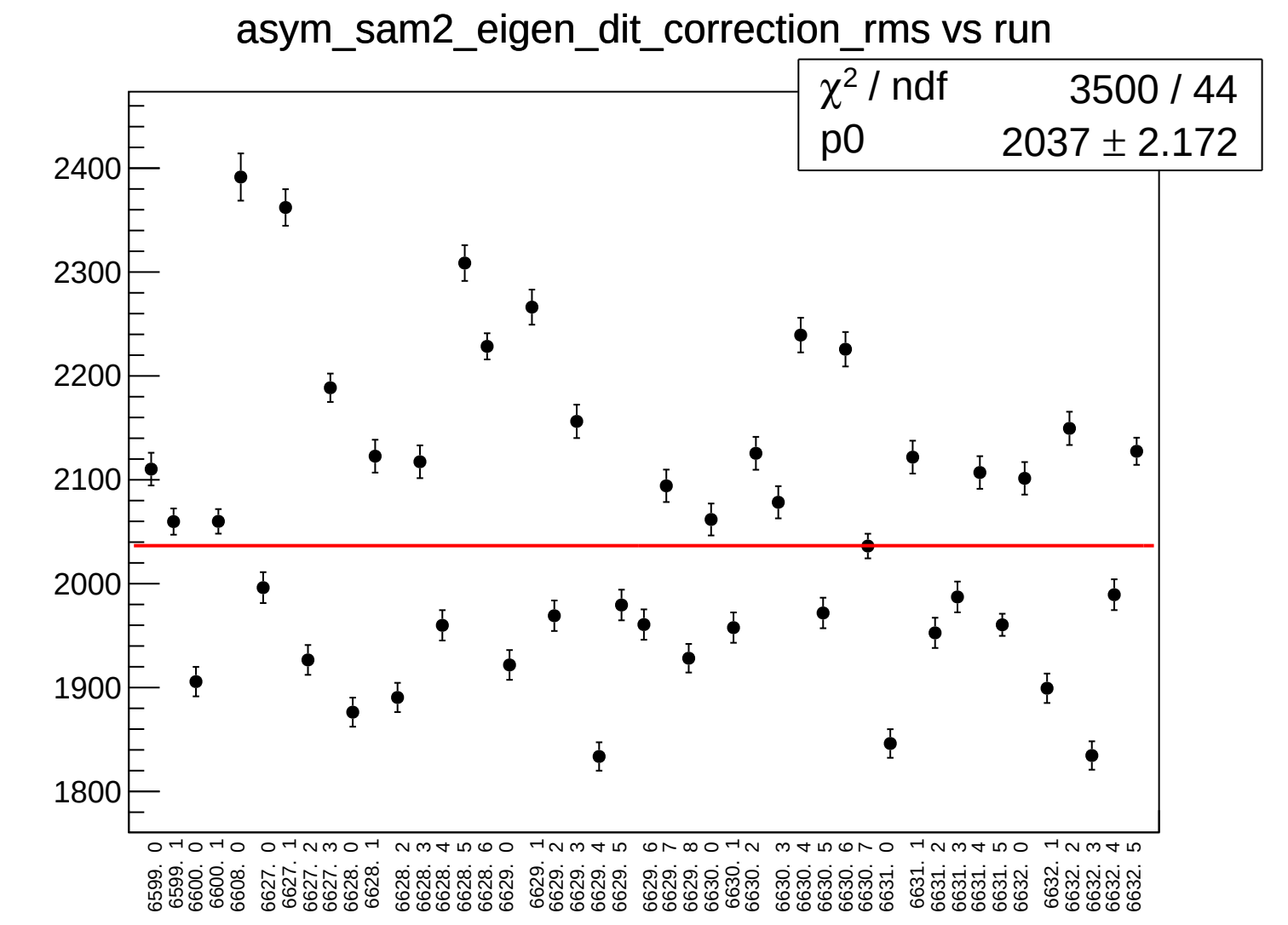

asym_sam2_dit_correction_mean vs run
χ² / ndf 32.52 / 44
p0 4084 ± 3072
pull
Entries 45
Mean −423.5
Std Dev 0
pull1D
Entries 45
Mean 0.008893
Std Dev 0.85

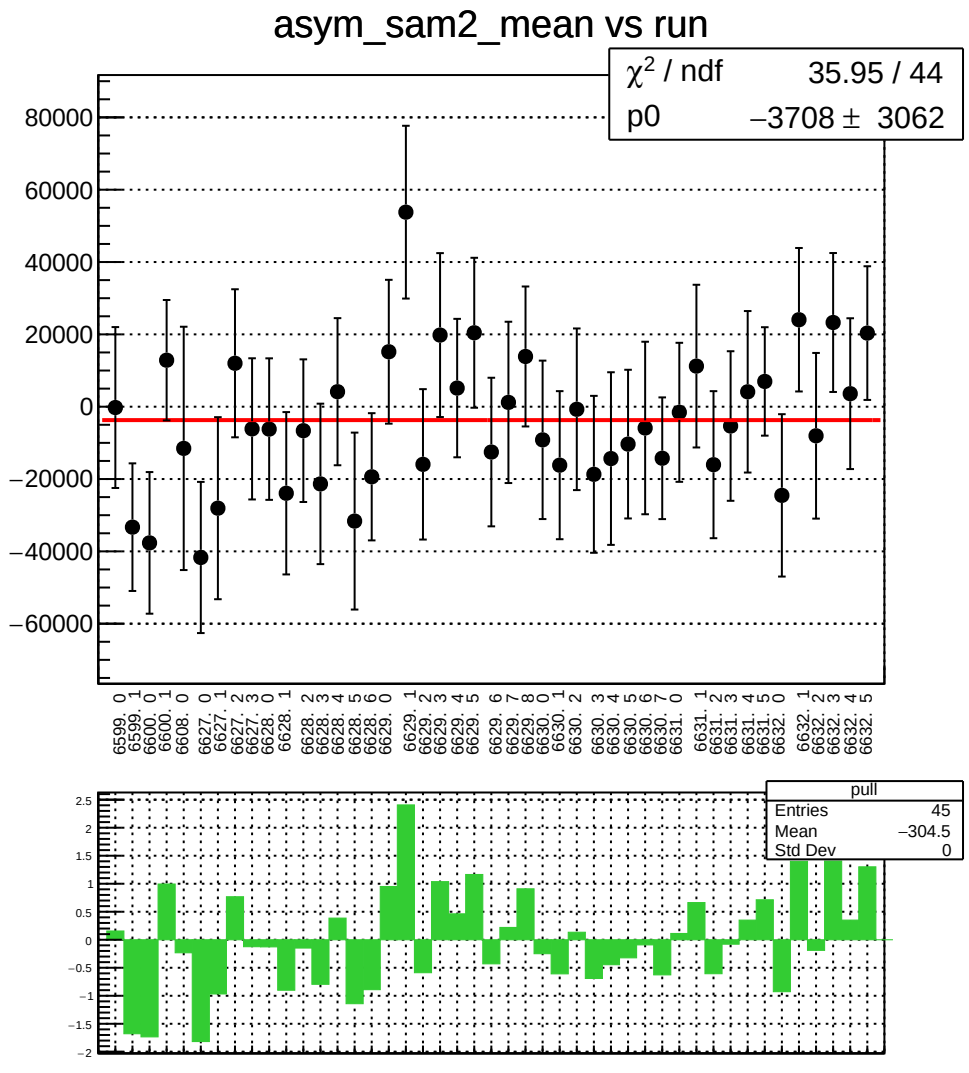

asym_sam2_dit_correction_rms vs run
χ² / ndf 3500 / 44
p0 2037 ± 2.172
2400
2300
2200
2100
2000
1900
1800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

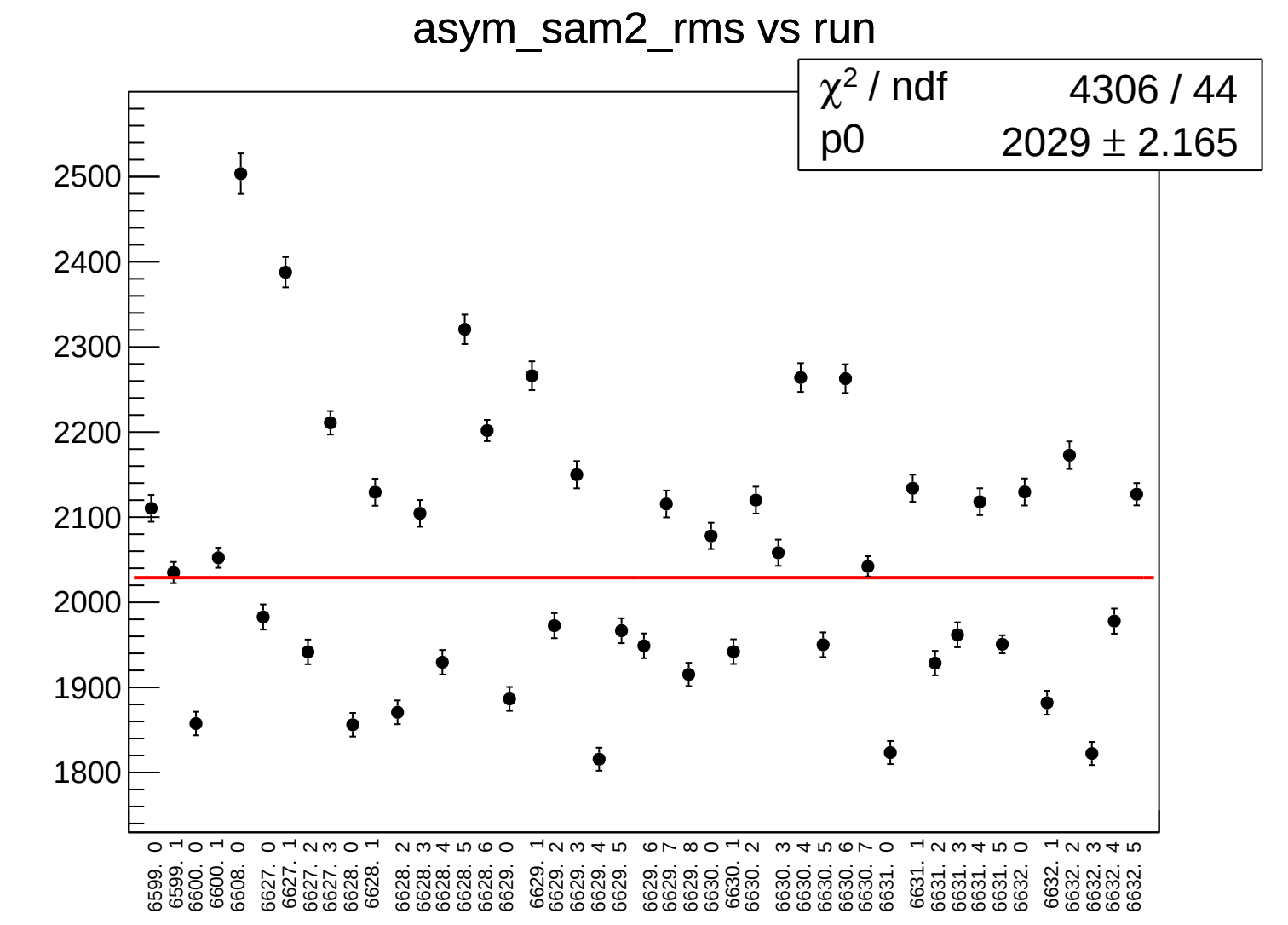

eigen_dit_asym_sam2_mean vs run
χ² / ndf 53.29 / 44
p0 298.3 ± 438.3
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 200.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.00827
Std Dev 1.088
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

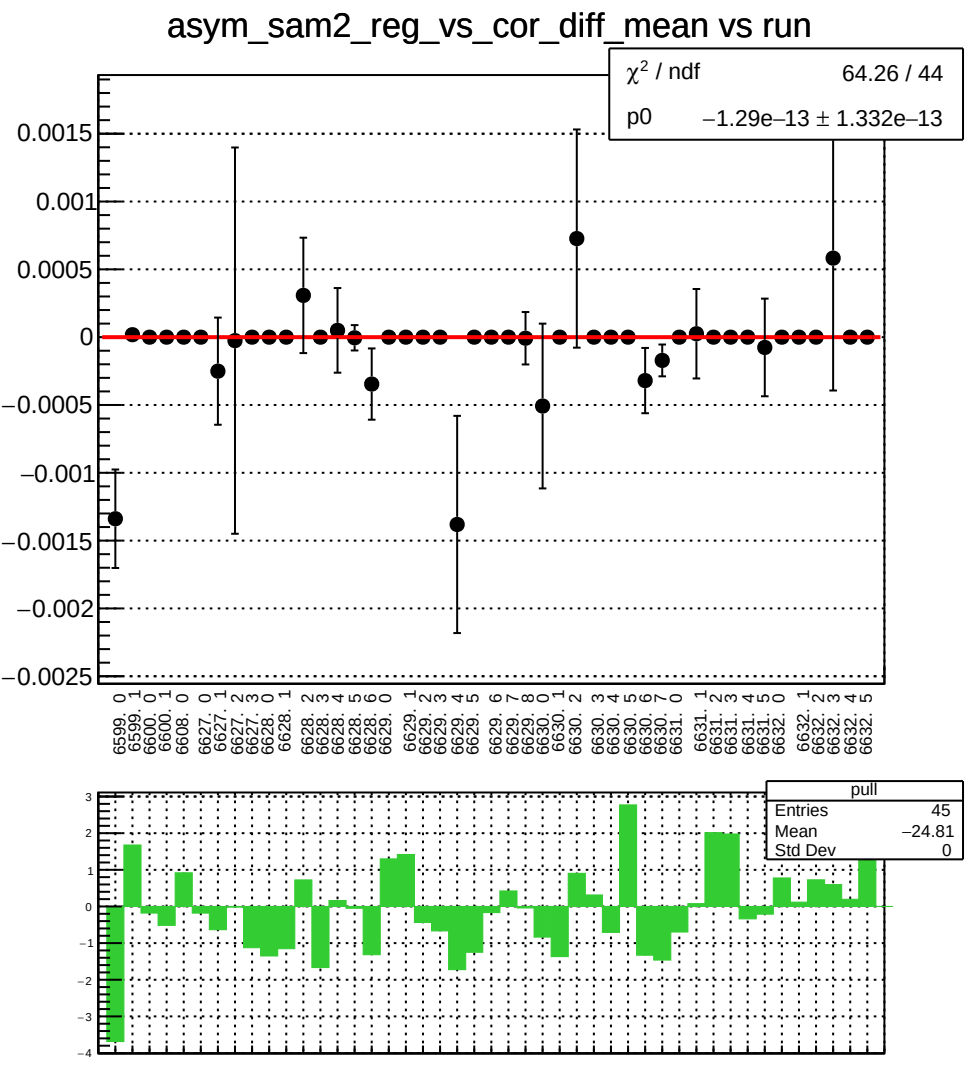

eigen_dit_asym_sam2_rms vs run
χ² / ndf 1234 / 44
p0 291 ± 0.3099
360
340
320
300
280
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

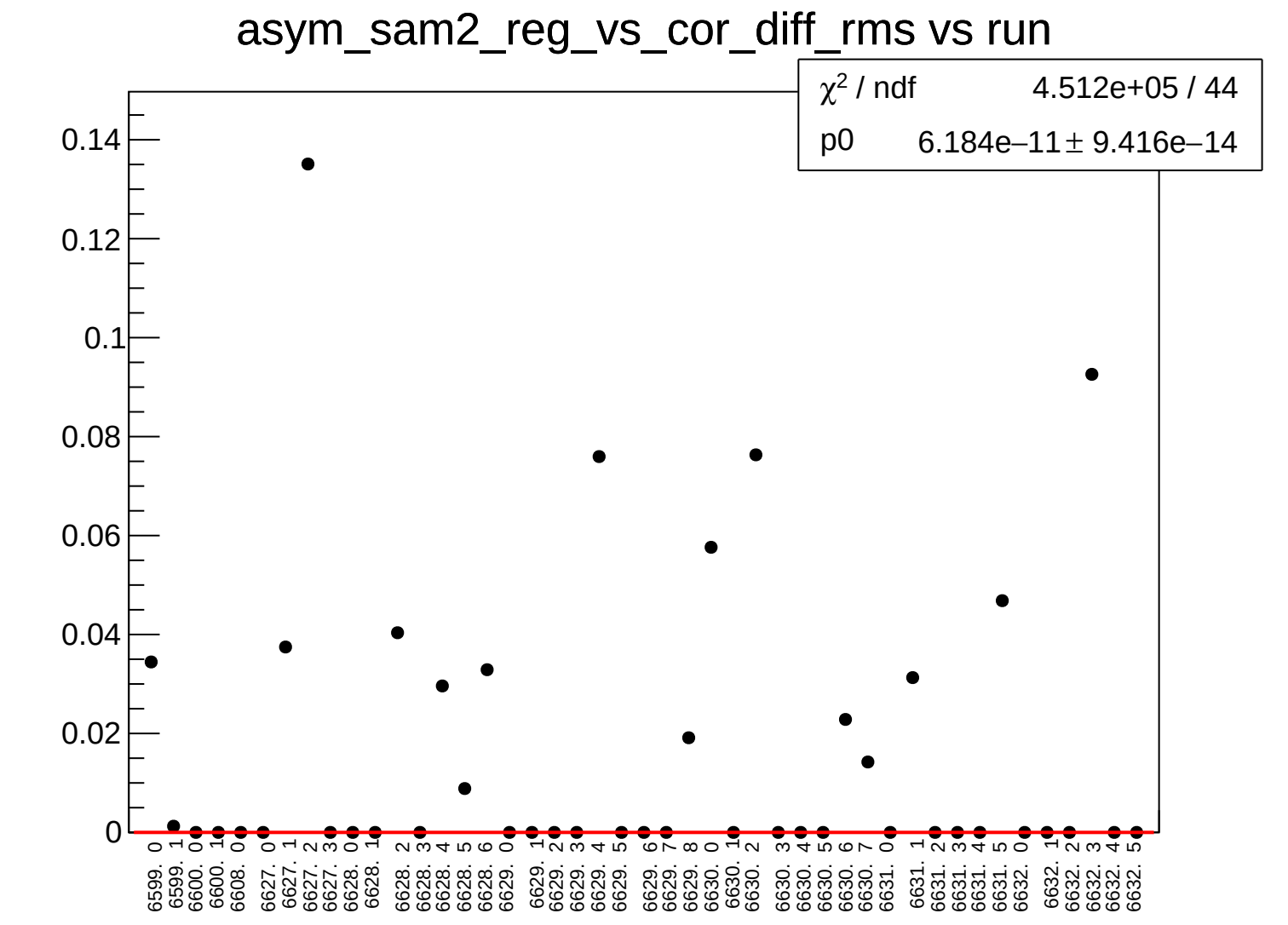

asym_sam2_eigen_dit_correction_mean vs run
χ² / ndf 32.52 / 44
p0 4084 ± 3072
pull
Entries 45
Mean −423.5
Std Dev 0
pull1D
Entries 45
Mean 0.008893
Std Dev 0.85

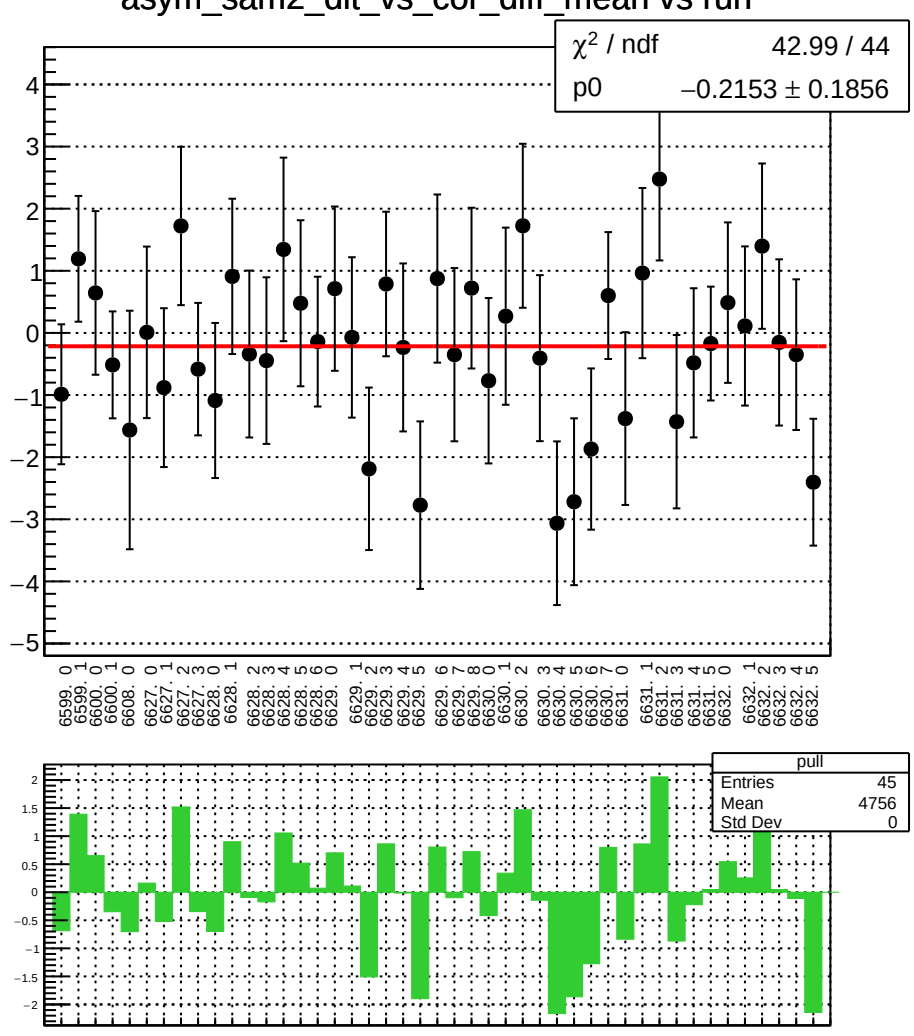

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 3500 / 44
p0 2037 ± 2.172
2400
2300
2200
2100
2000
1900
1800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

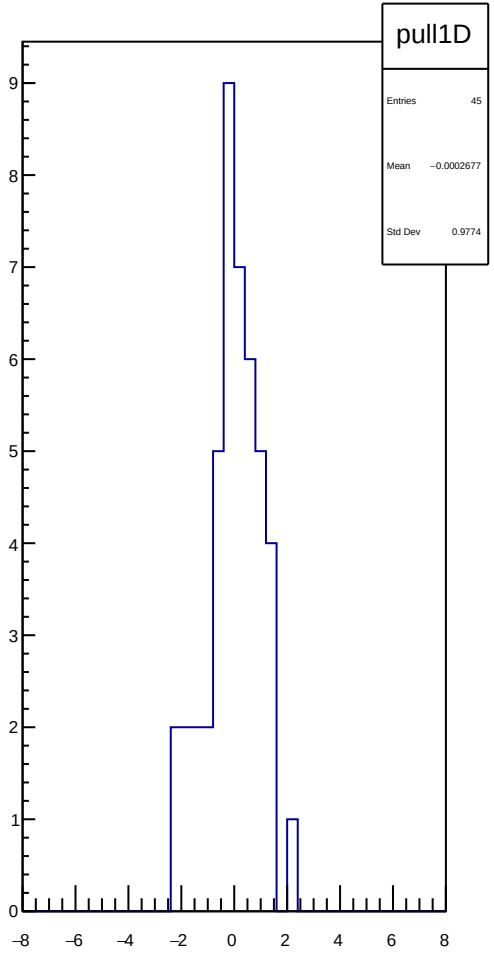

asym_sam2_mean vs run
χ² / ndf 35.95 / 44
p0 −3708 ± 3062
80000
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −304.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01163
Std Dev 0.8937
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

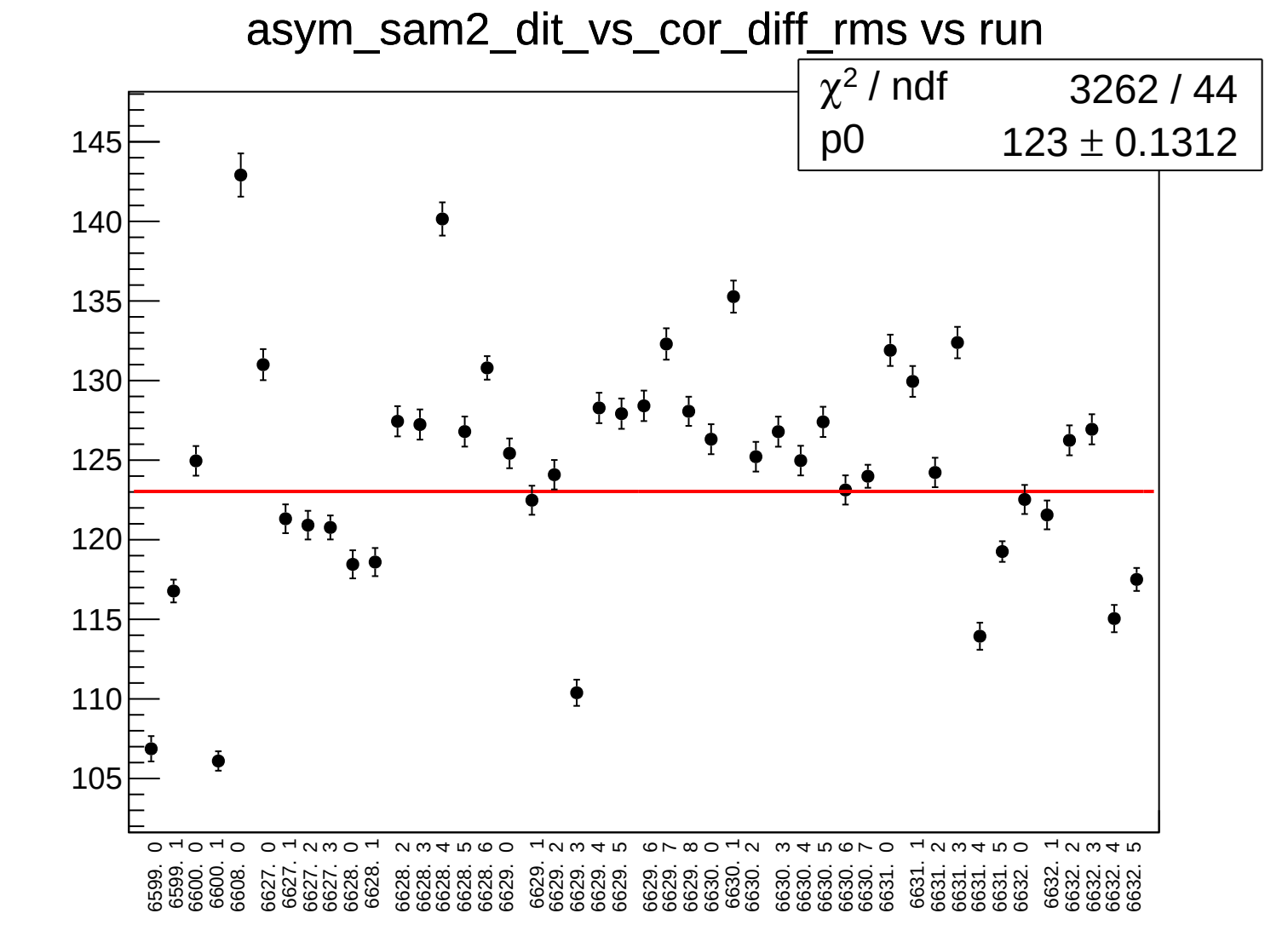

asym_sam2_rms vs run
χ² / ndf 4306 / 44
p0 2029 ± 2.165
2500
2400
2300
2200
2100
2000
1900
1800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

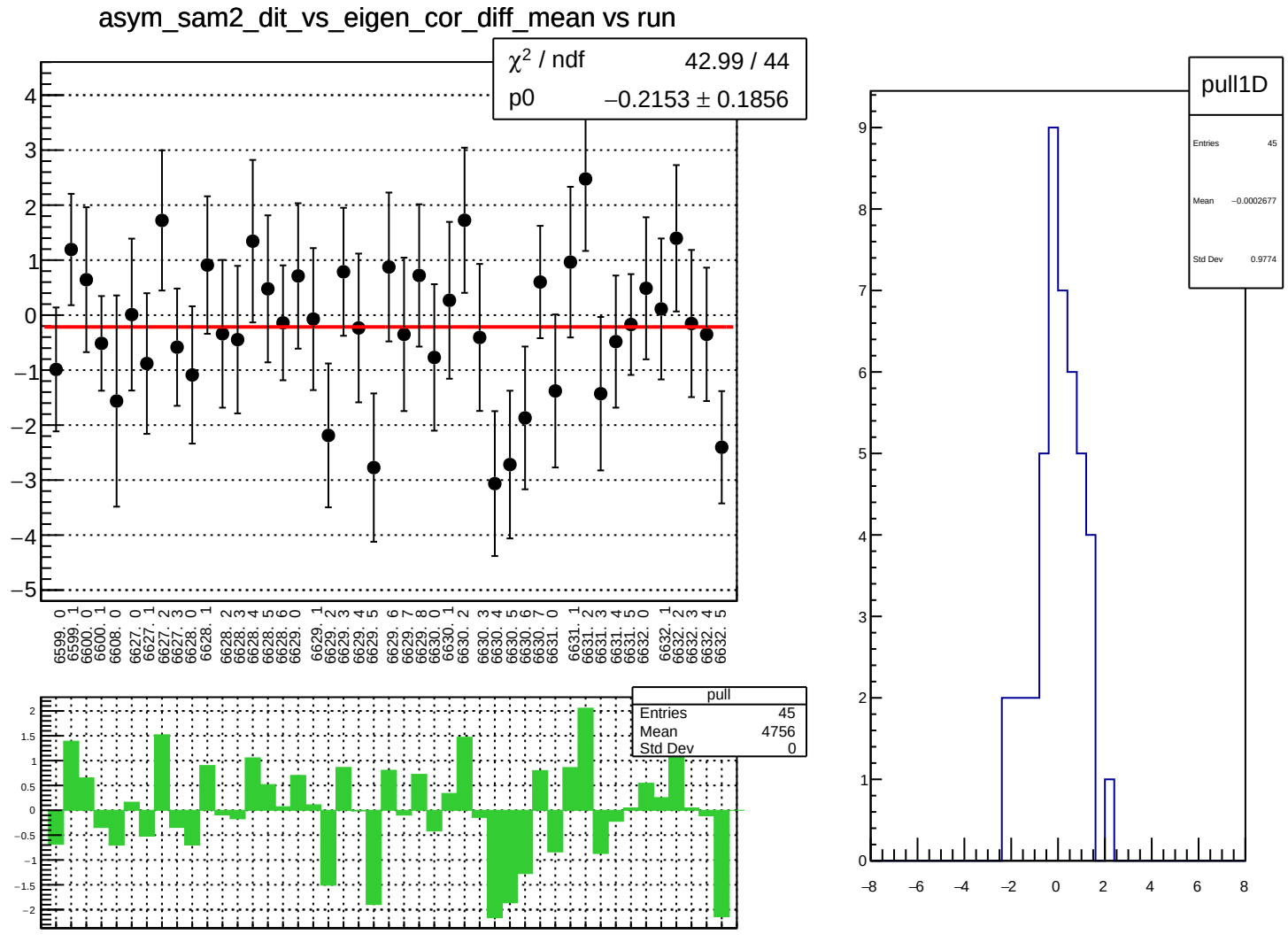

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 64.26 / 44
p0 −1.29e−13 ± 1.332e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −24.81
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 45
Mean −0.1025
Std Dev 1.191
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

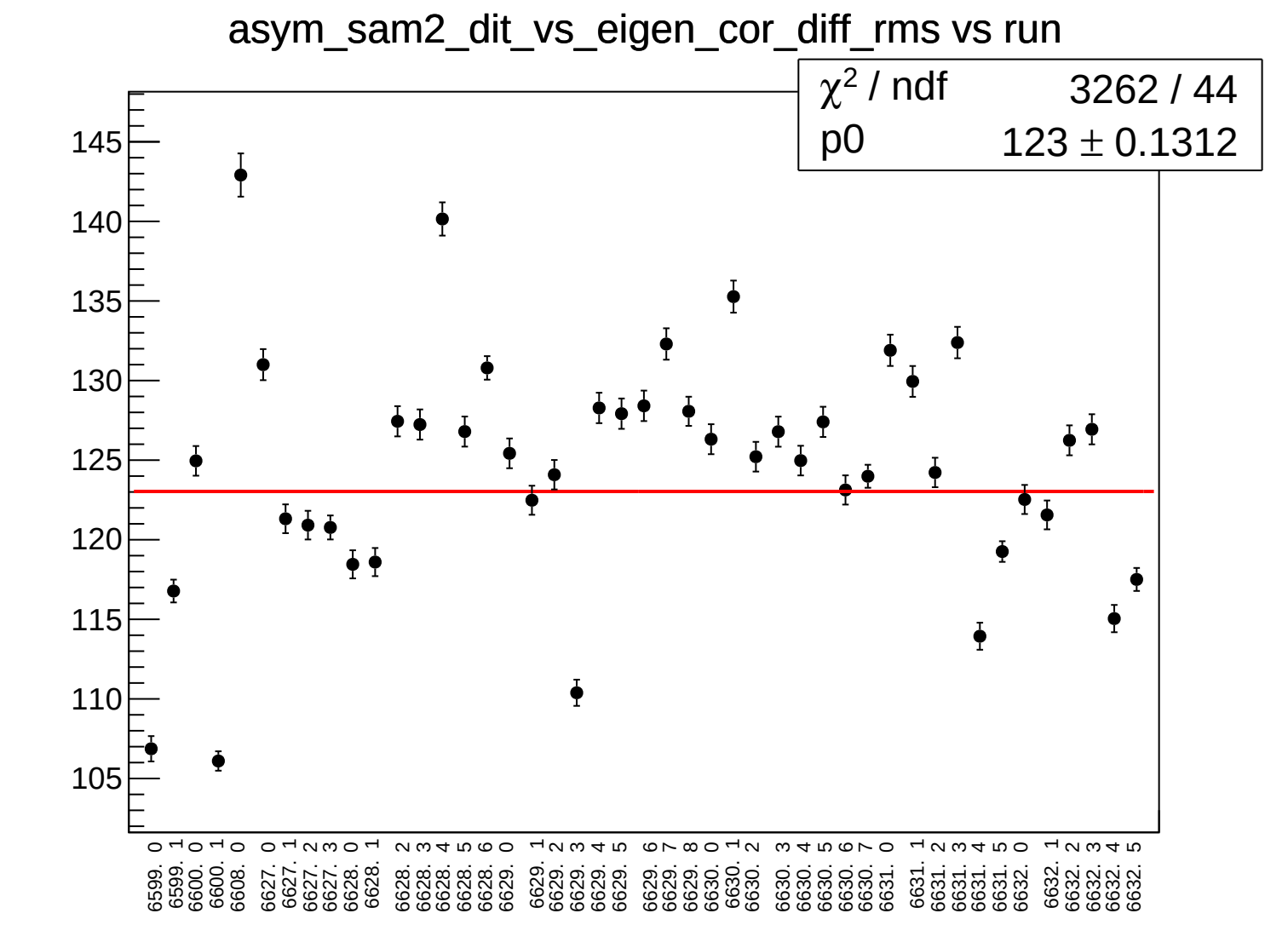

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 4.512e+05 / 44
p0 6.184e−11 ± 9.416e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

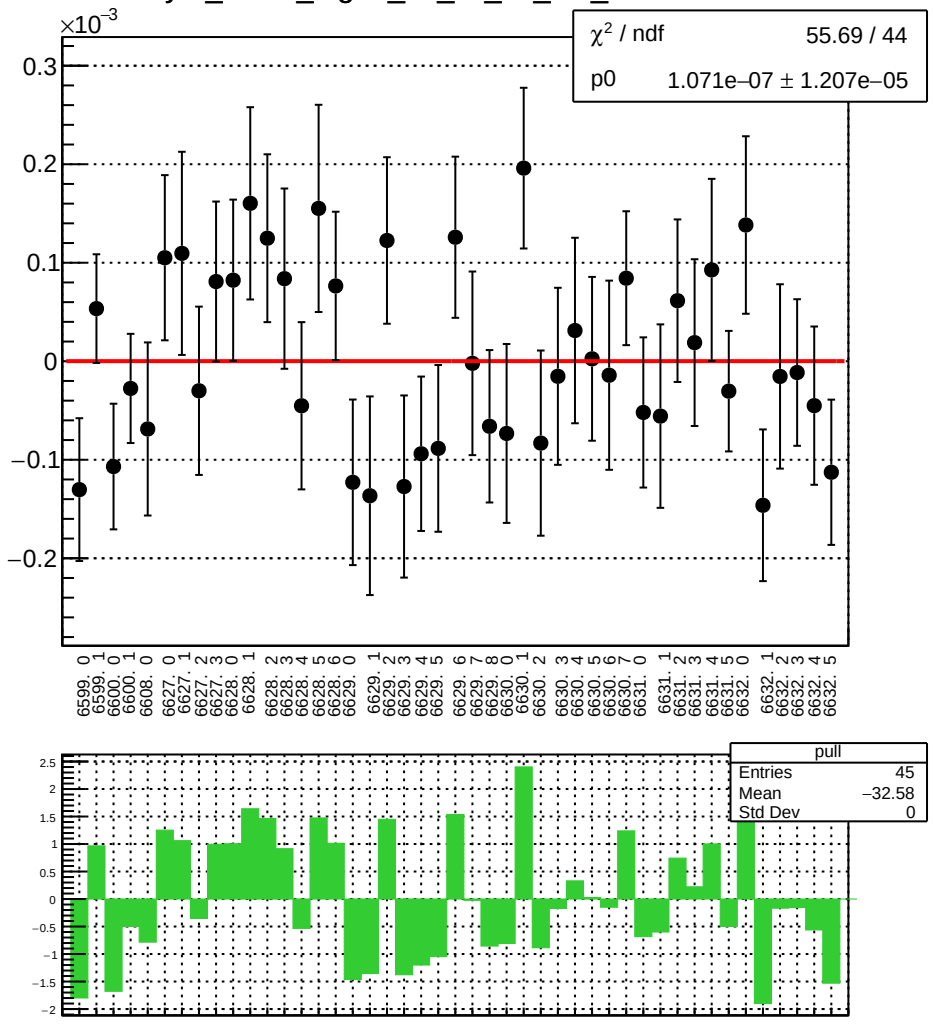

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 42.99 / 44
p0 −0.2153 ± 0.1856
pull
Entries 45
Mean 4756
Std Dev 0

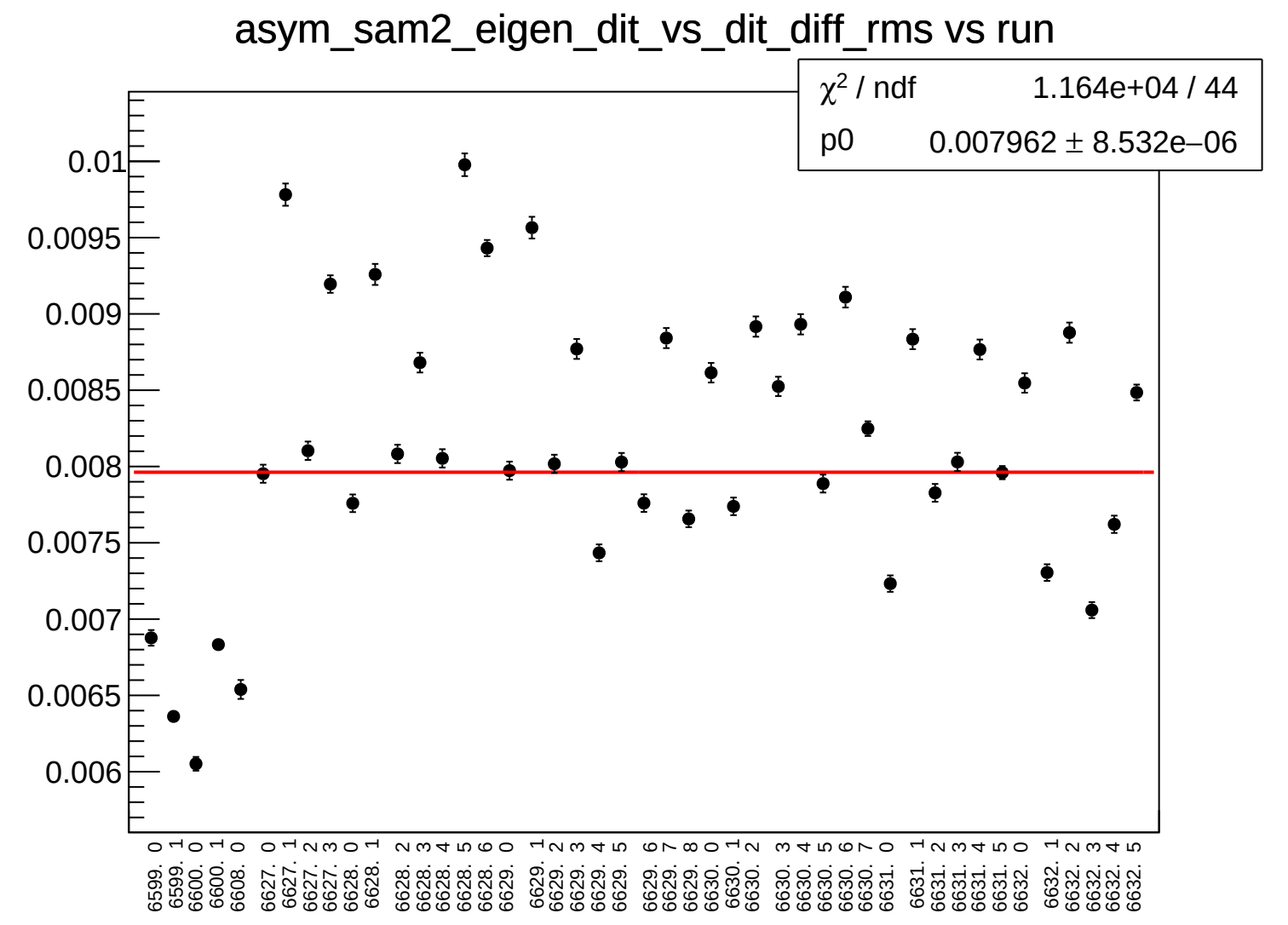

pull1D
Entries 45
Mean −0.0002677
Std Dev 0.9774

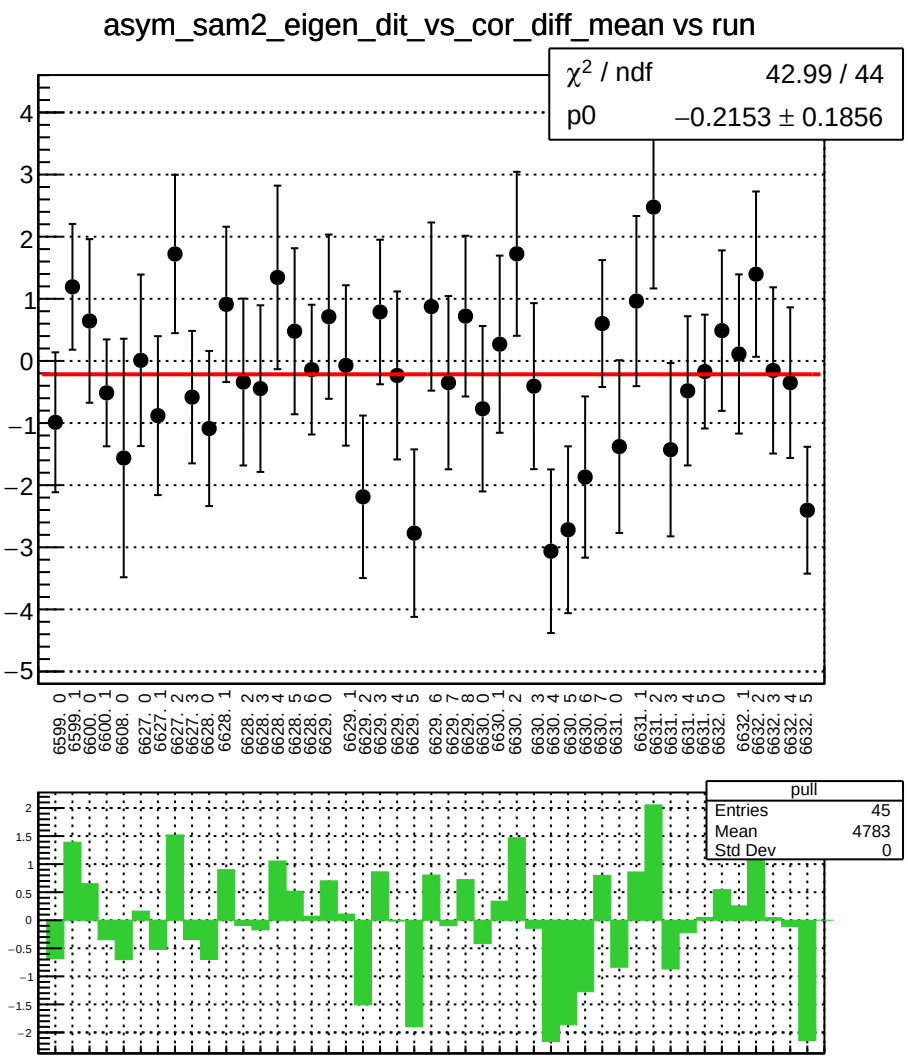

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 3262 / 44
p0 123 ± 0.1312
145
140
135
130
125
120
115
110
105
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

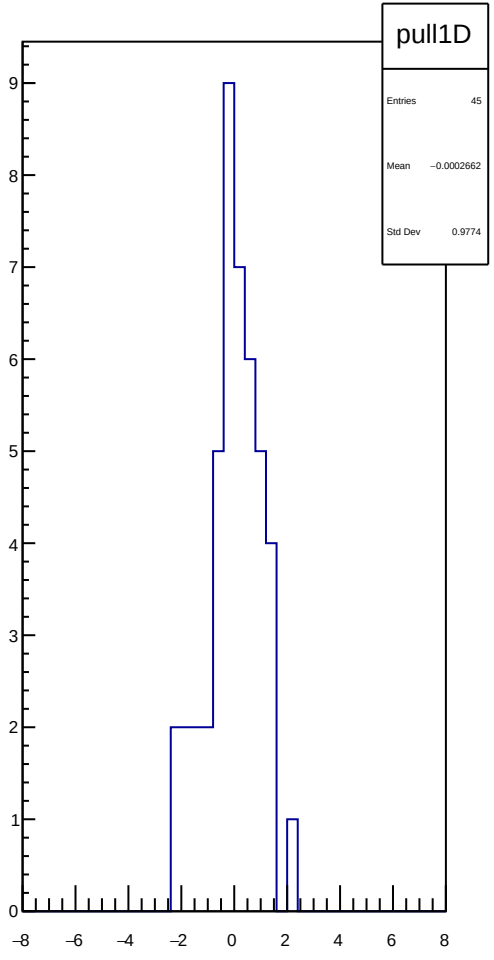

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.99 / 44
p0 −0.2153 ± 0.1856
pull
Entries 45
Mean 4756
Std Dev 0
pull1D
Entries 45
Mean −0.0002677
Std Dev 0.9774

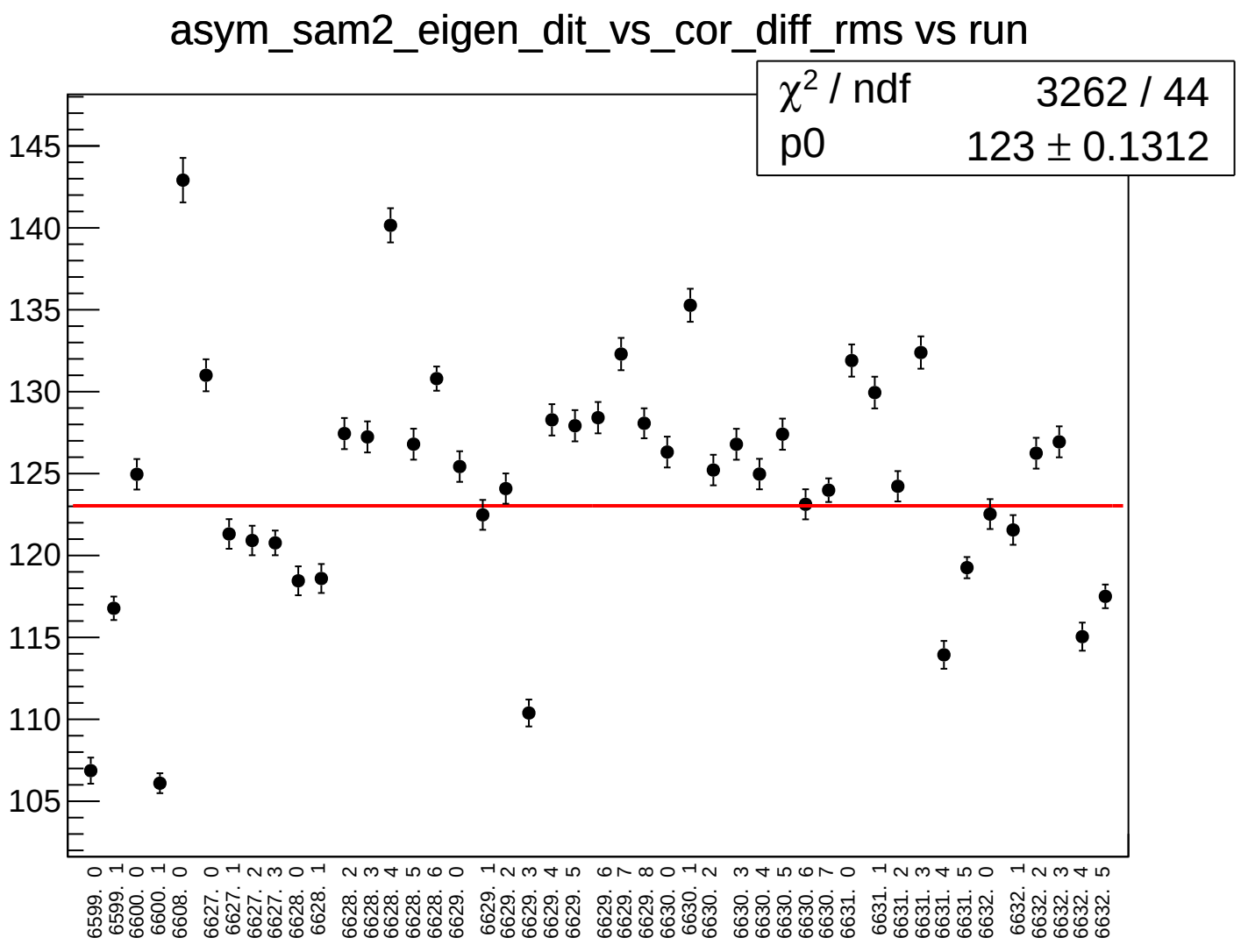

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3262 / 44
p0 123 ± 0.1312
145
140
135
130
125
120
115
110
105
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

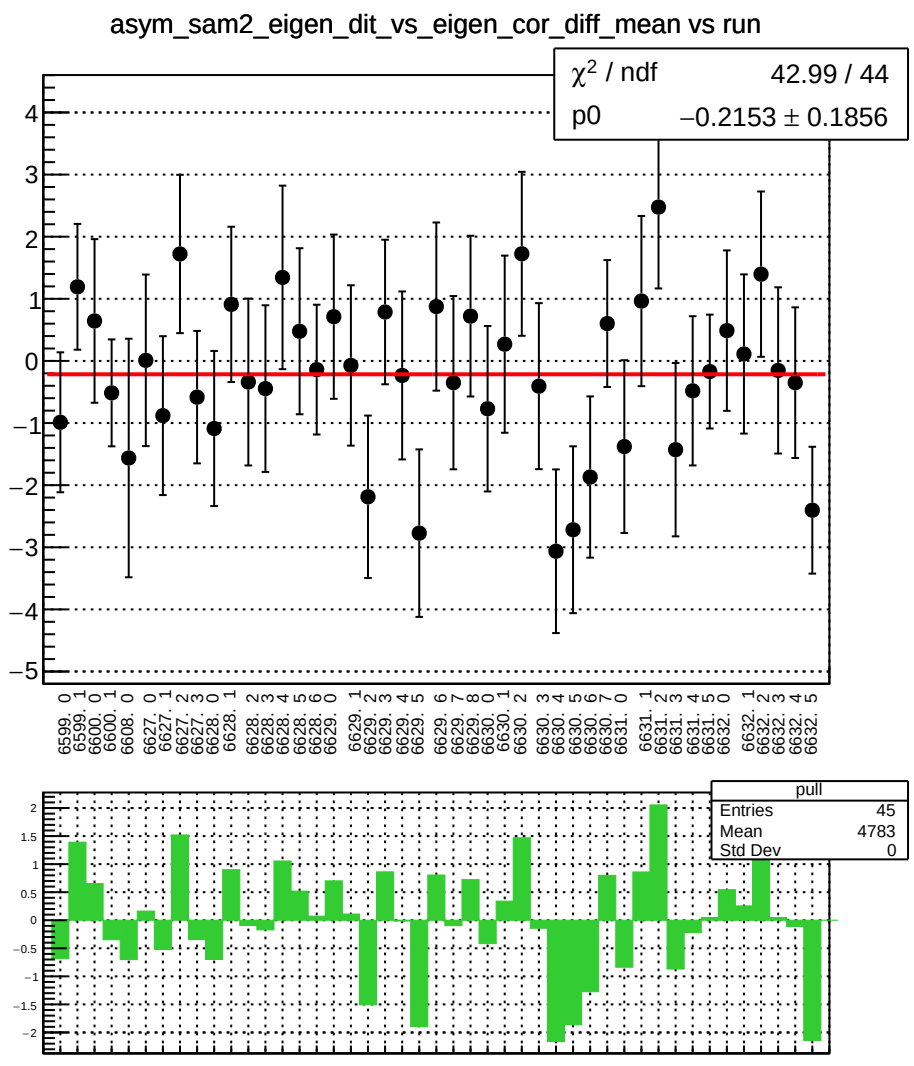

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 55.69 / 44
p0 1.071e−07 ± 1.207e−05
0.3
0.2
0.1
0
−0.1
−0.2
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −32.58
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.02679
Std Dev 1.112
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

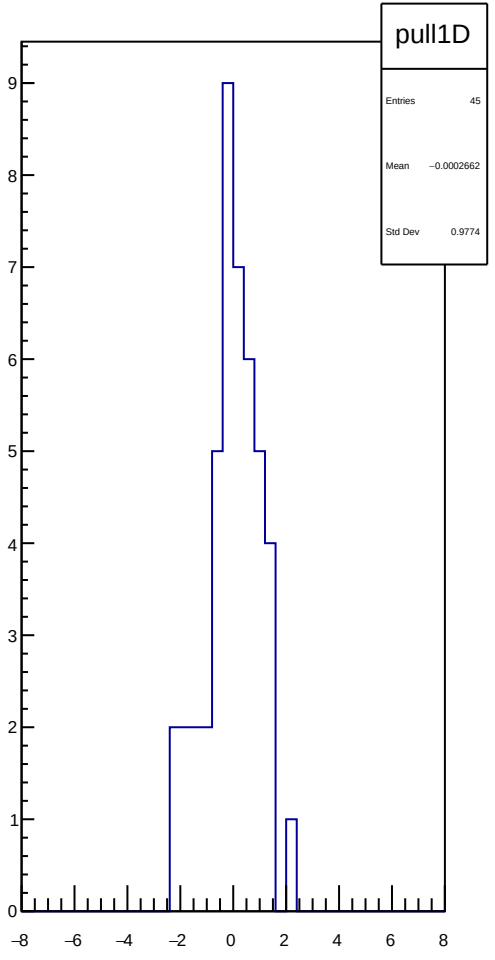

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.164e+04 / 44
p0 0.007962 ± 8.532e−06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

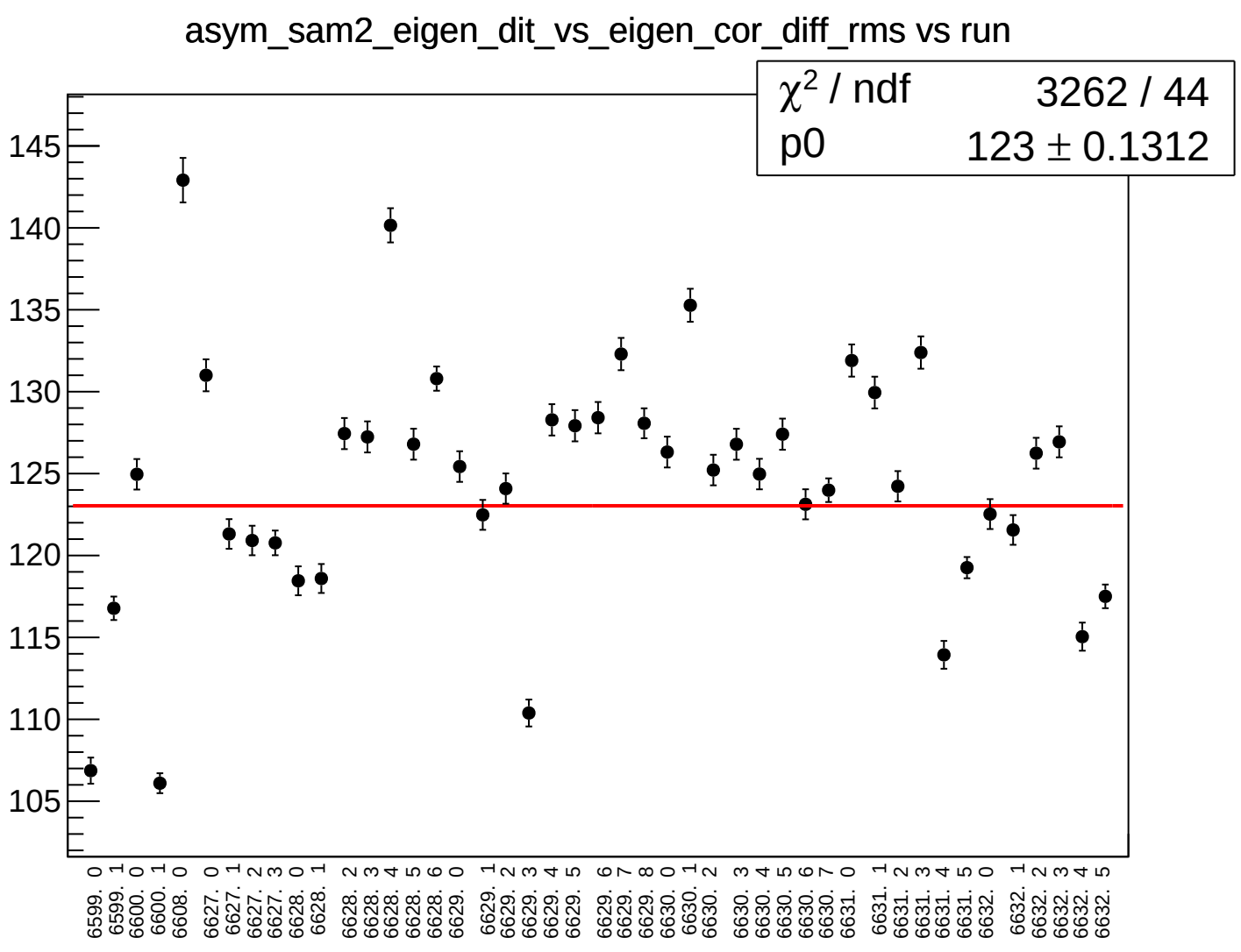

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 42.99 / 44
p0 −0.2153 ± 0.1856
pull
Entries 45
Mean 4783
Std Dev 0

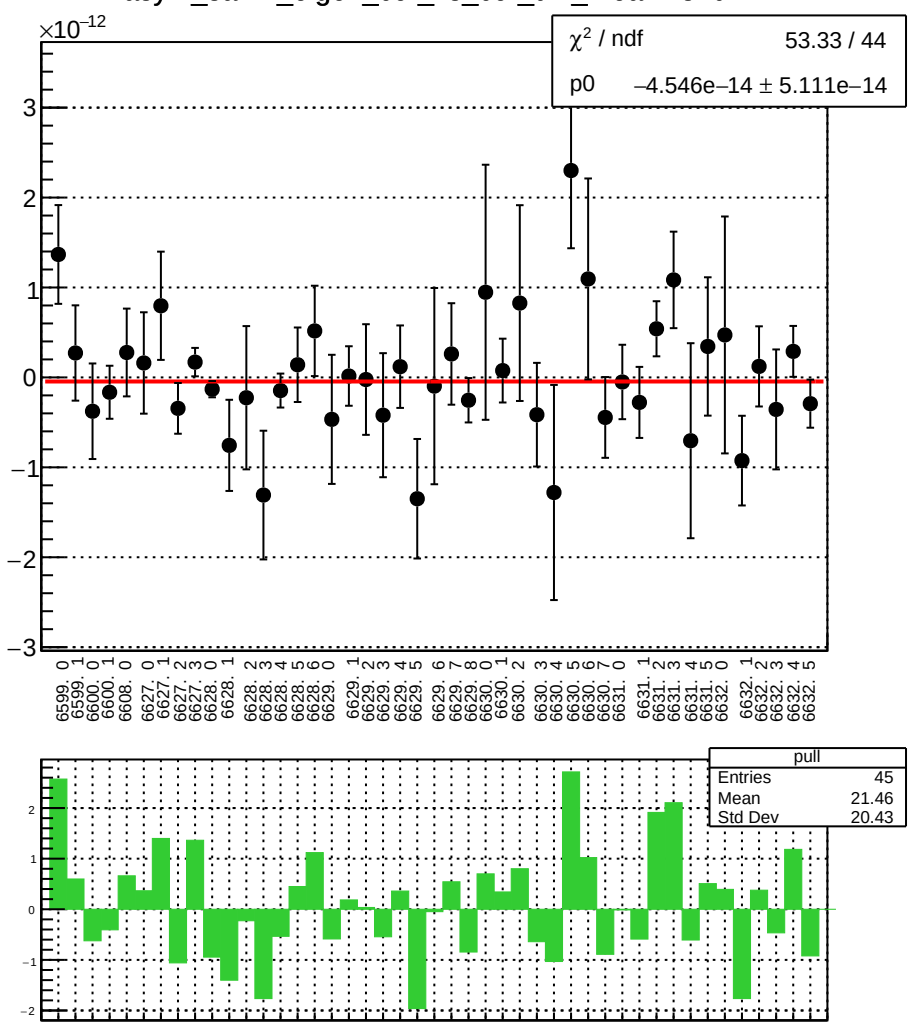

pull1D
Entries 45
Mean −0.0002662
Std Dev 0.9774

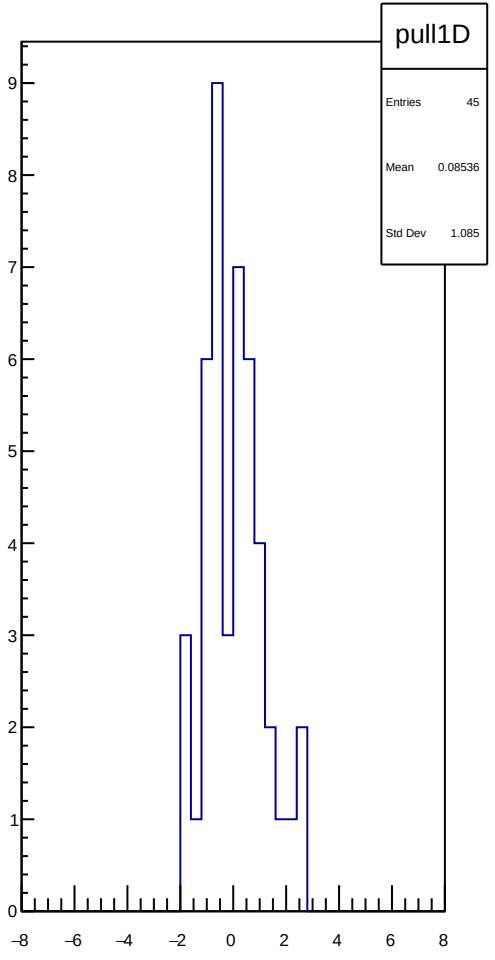

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3262 / 44
p0 123 ± 0.1312
145
140
135
130
125
120
115
110
105
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

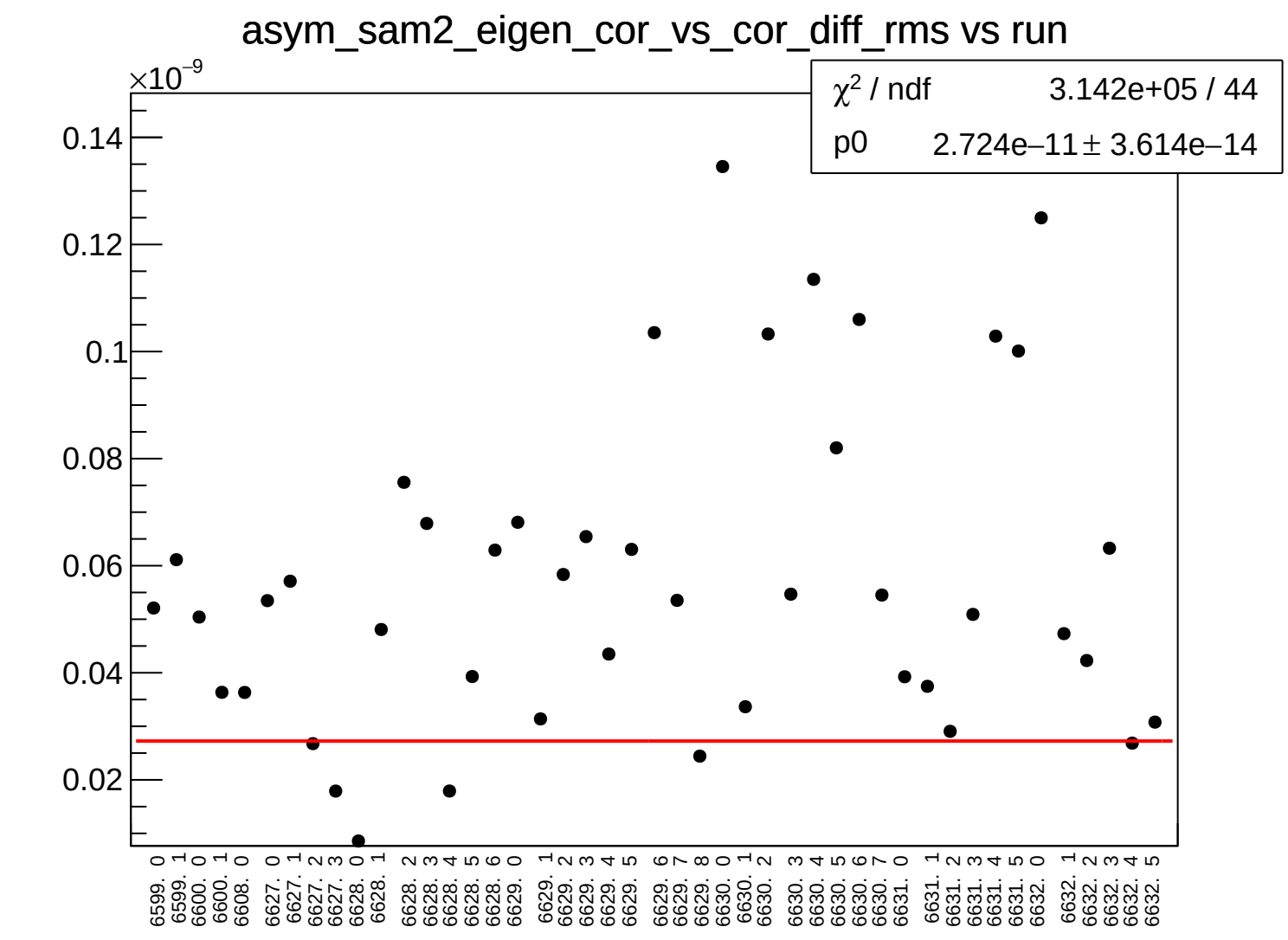

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.99 / 44
p0 −0.2153 ± 0.1856
pull
Entries 45
Mean 4783
Std Dev 0

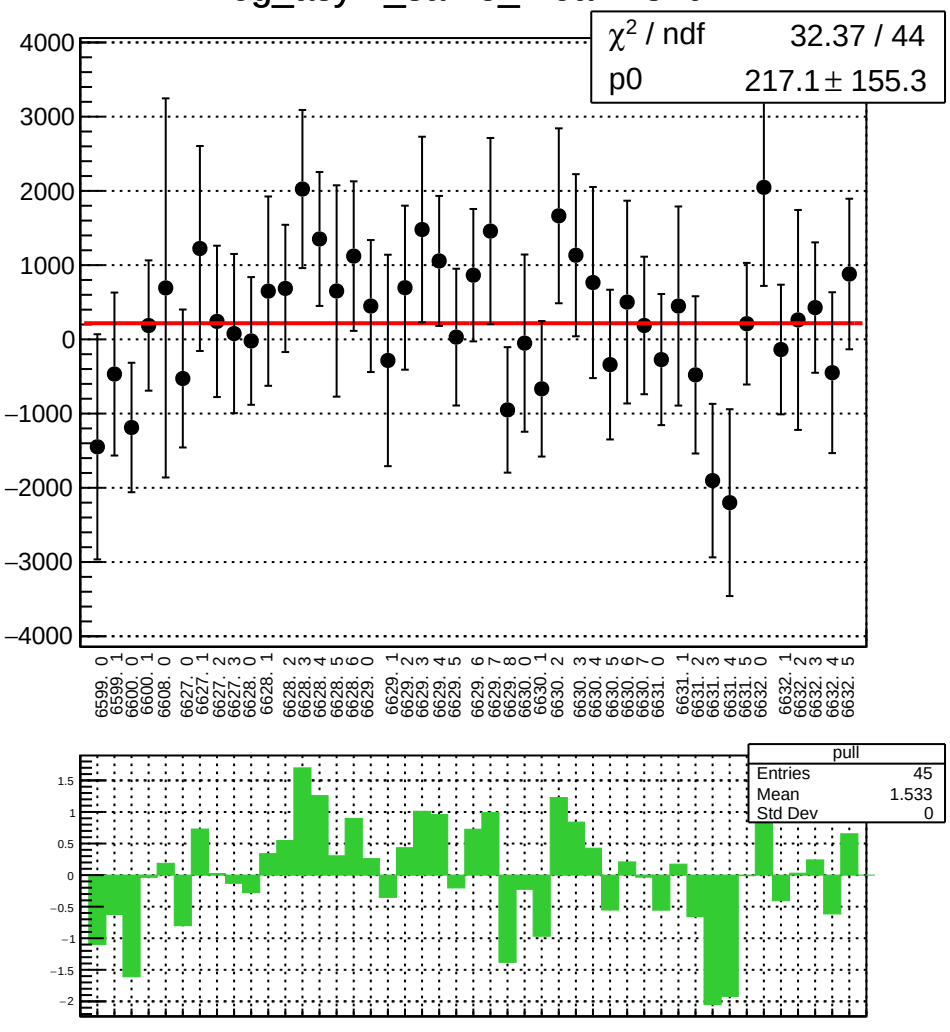

pull1D
Entries 45
Mean −0.0002662
Std Dev 0.9774

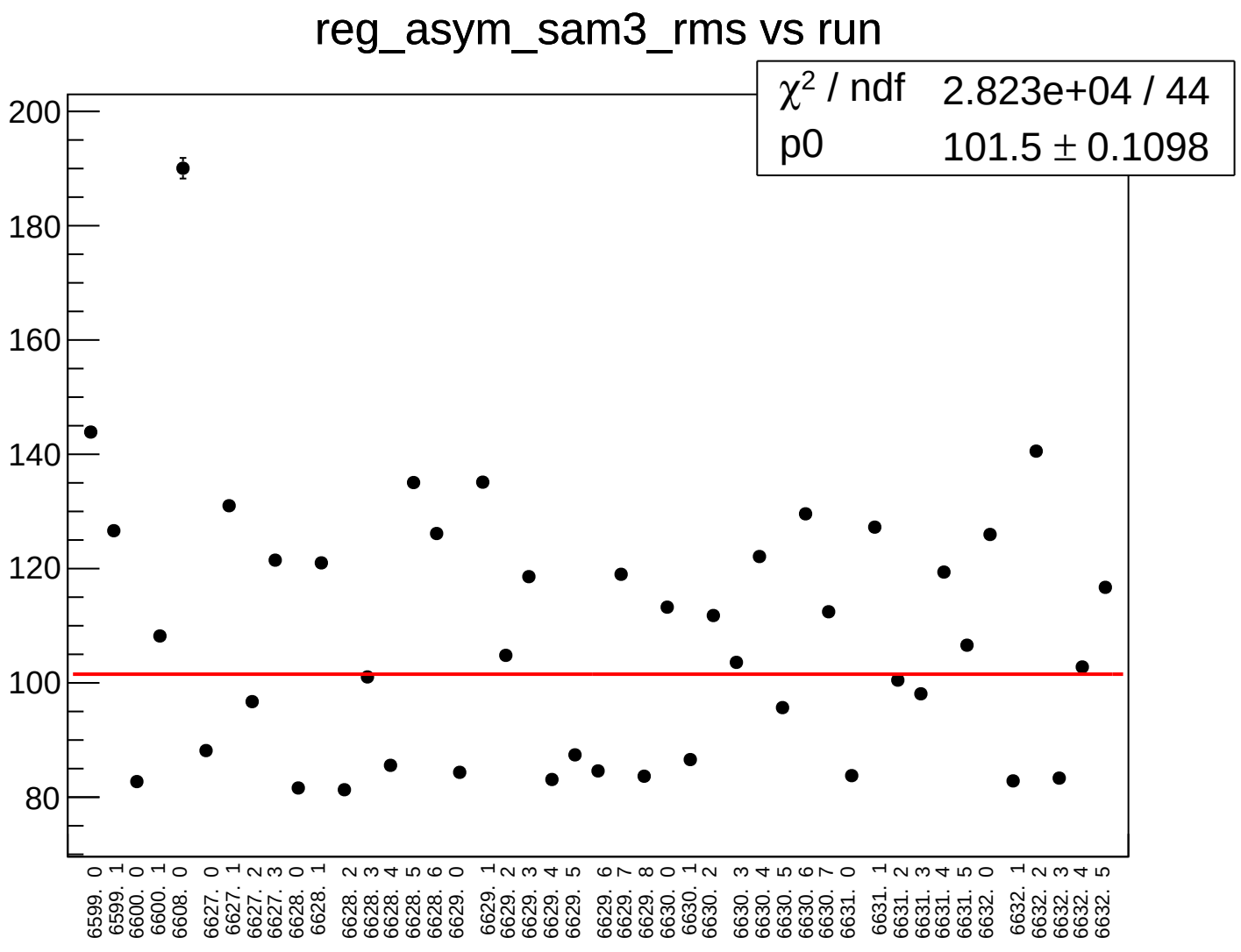

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3262 / 44
p0 123 ± 0.1312
145
140
135
130
125
120
115
110
105
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

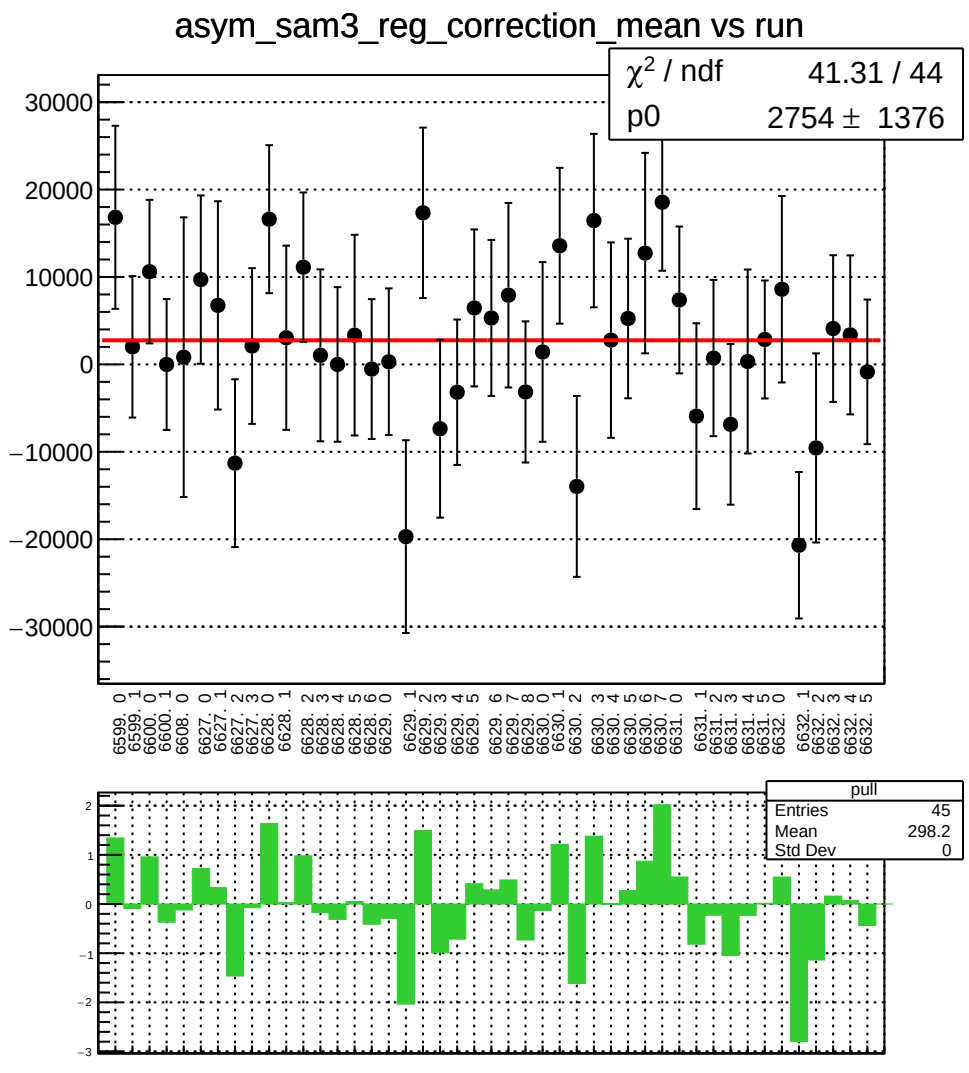

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 53.33 / 44
p0 −4.546e−14 ± 5.111e−14
pull
Entries 45
Mean 21.46
Std Dev 20.43

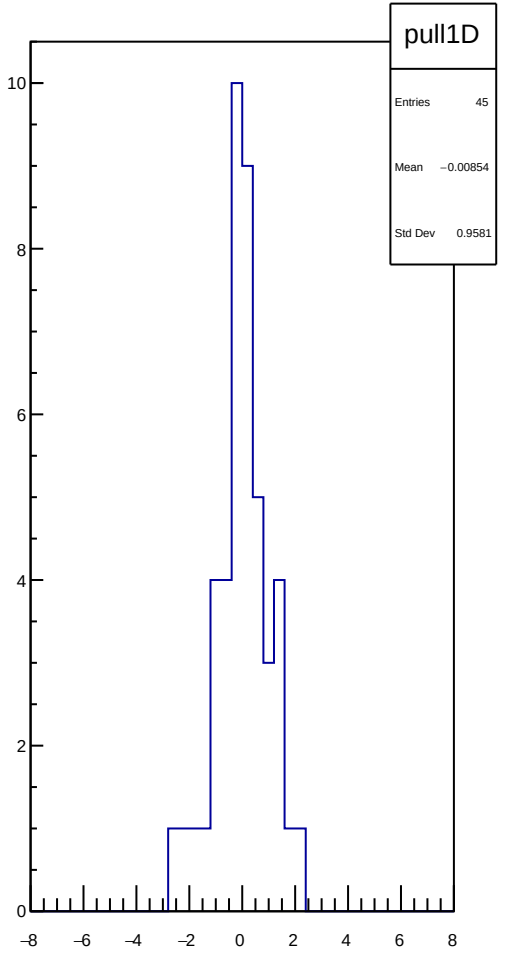

pull1D
Entries 45
Mean 0.08536
Std Dev 1.085

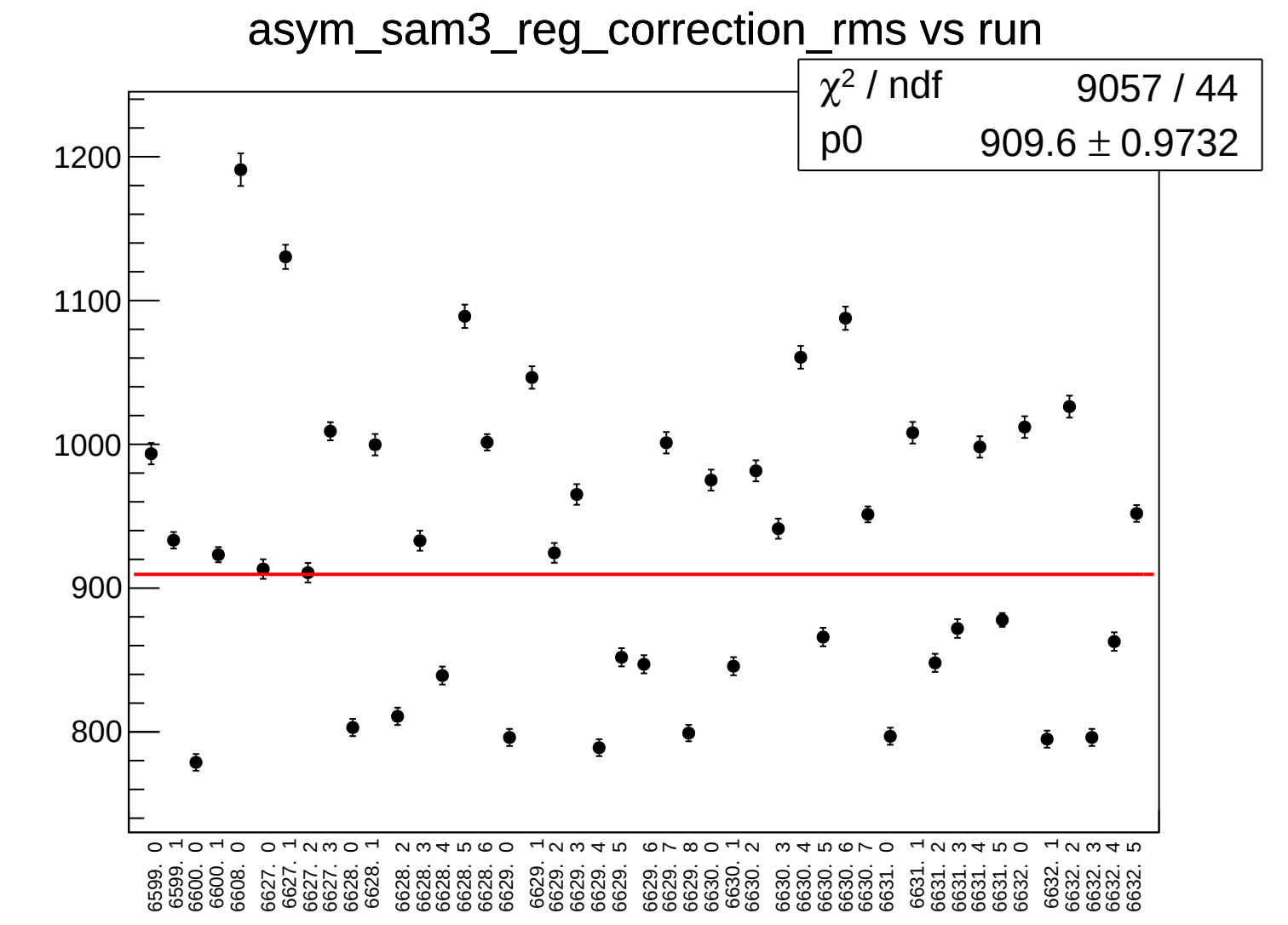

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.142e+05 / 44
p0 2.724e−11 ± 3.614e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


reg_asym_sam3_mean vs run
χ² / ndf 32.37 / 44
p0 217.1 ± 155.3
pull
Entries 45
Mean 1.533
Std Dev 0
pull1D
Entries 45
Mean 0.02317
Std Dev 0.8478


reg_asym_sam3_rms vs run
χ² / ndf 2.823e+04 / 44
p0 101.5 ± 0.1098
200
180
160
140
120
100
80
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam3_reg_correction_mean vs run
χ² / ndf 41.31 / 44
p0 2754 ± 1376
pull
Entries 45
Mean 298.2
Std Dev 0


pull1D
Entries 45
Mean −0.00854
Std Dev 0.9581


asym_sam3_reg_correction_rms vs run
χ² / ndf 9057 / 44
p0 909.6 ± 0.9732
1200
1100
1000
900
800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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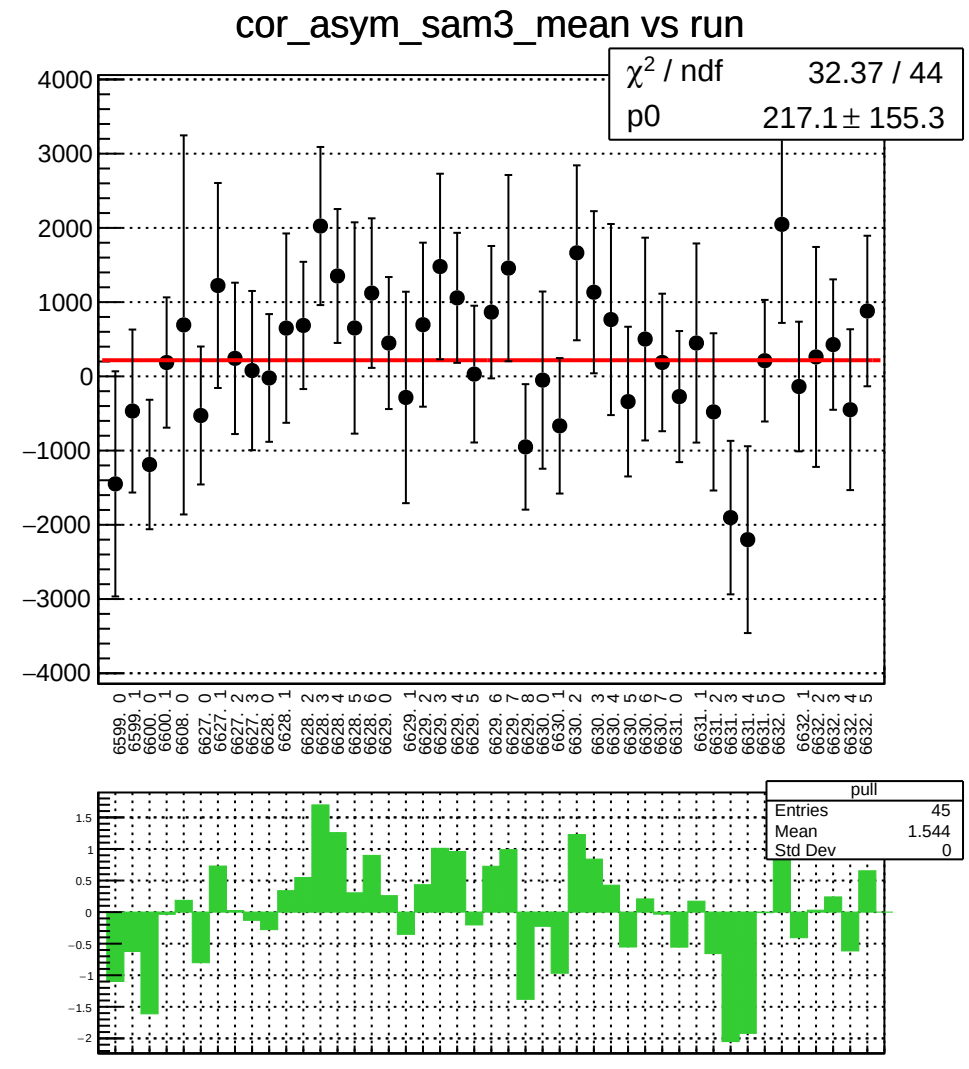
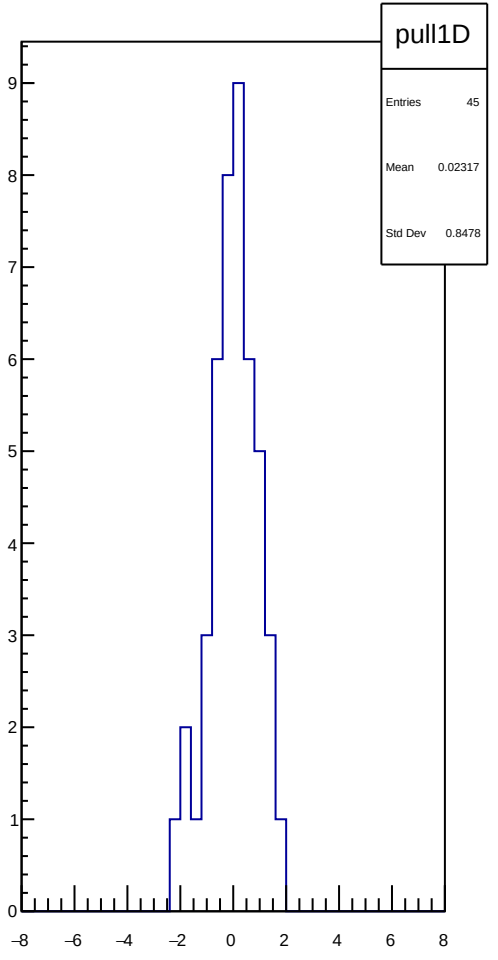
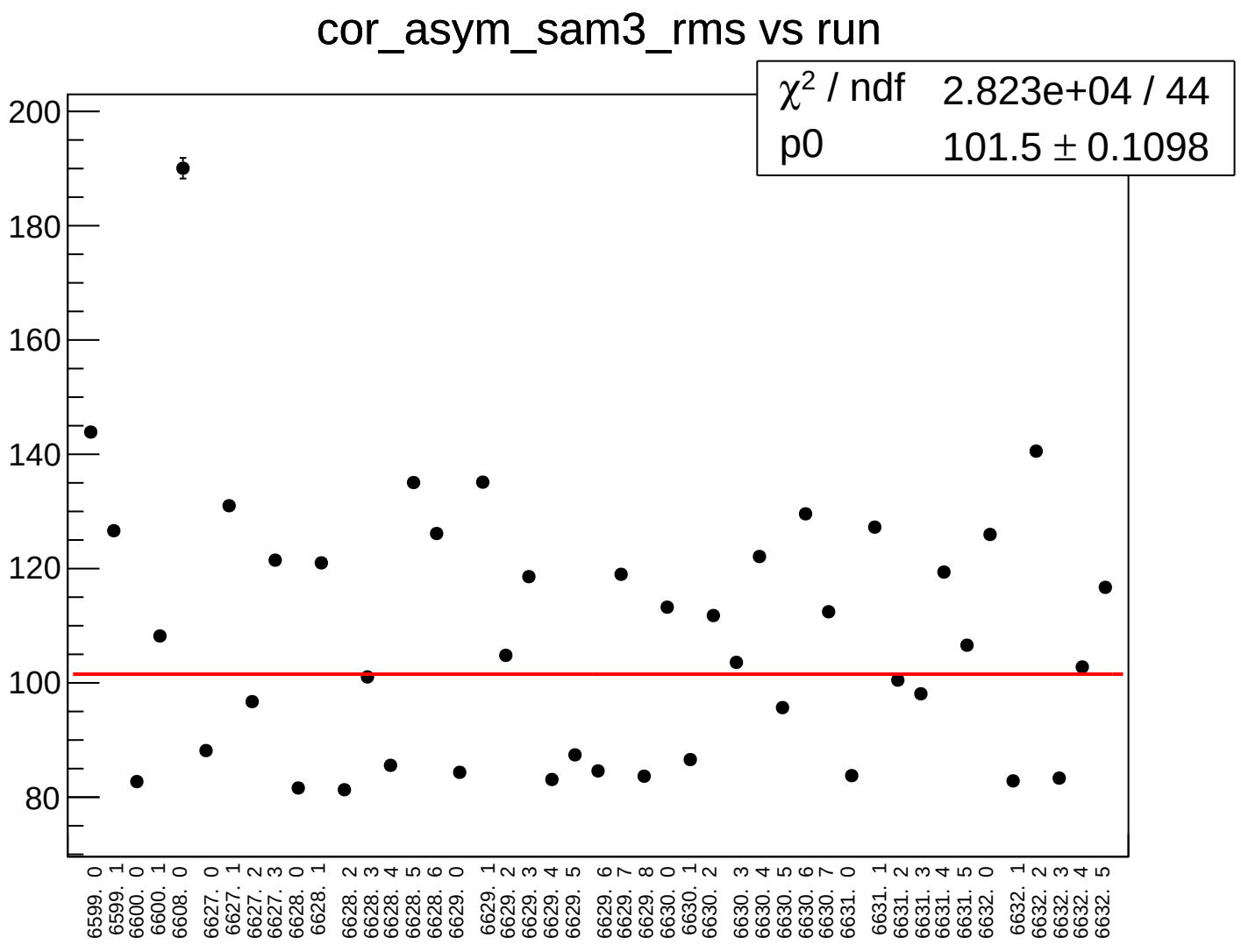
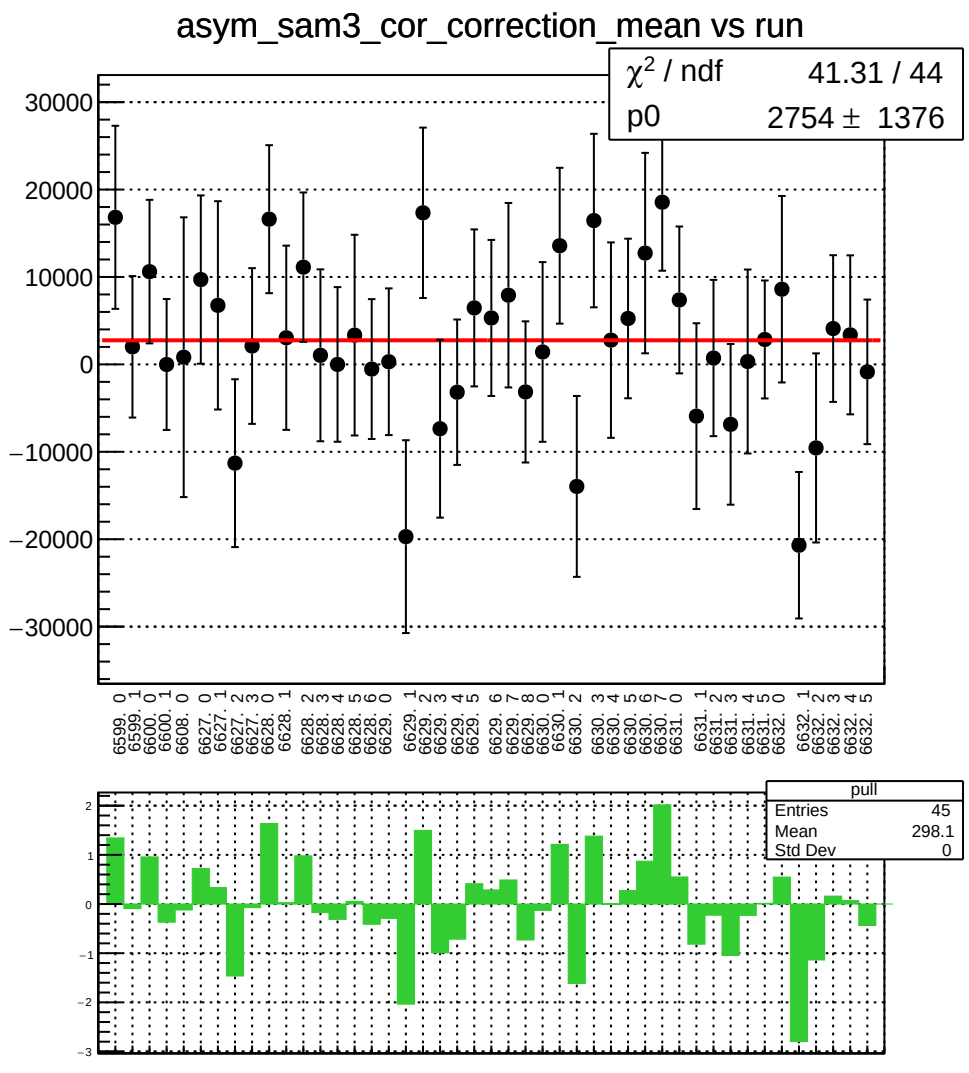
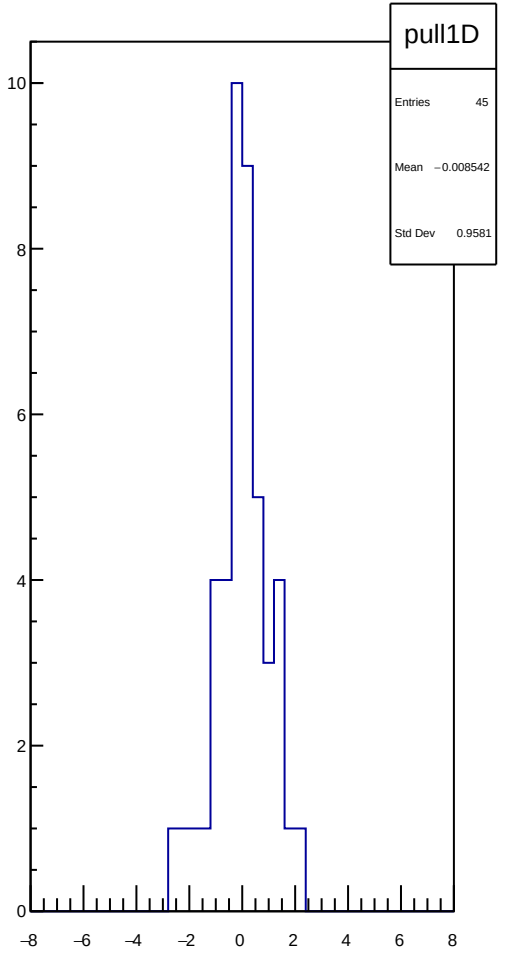
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

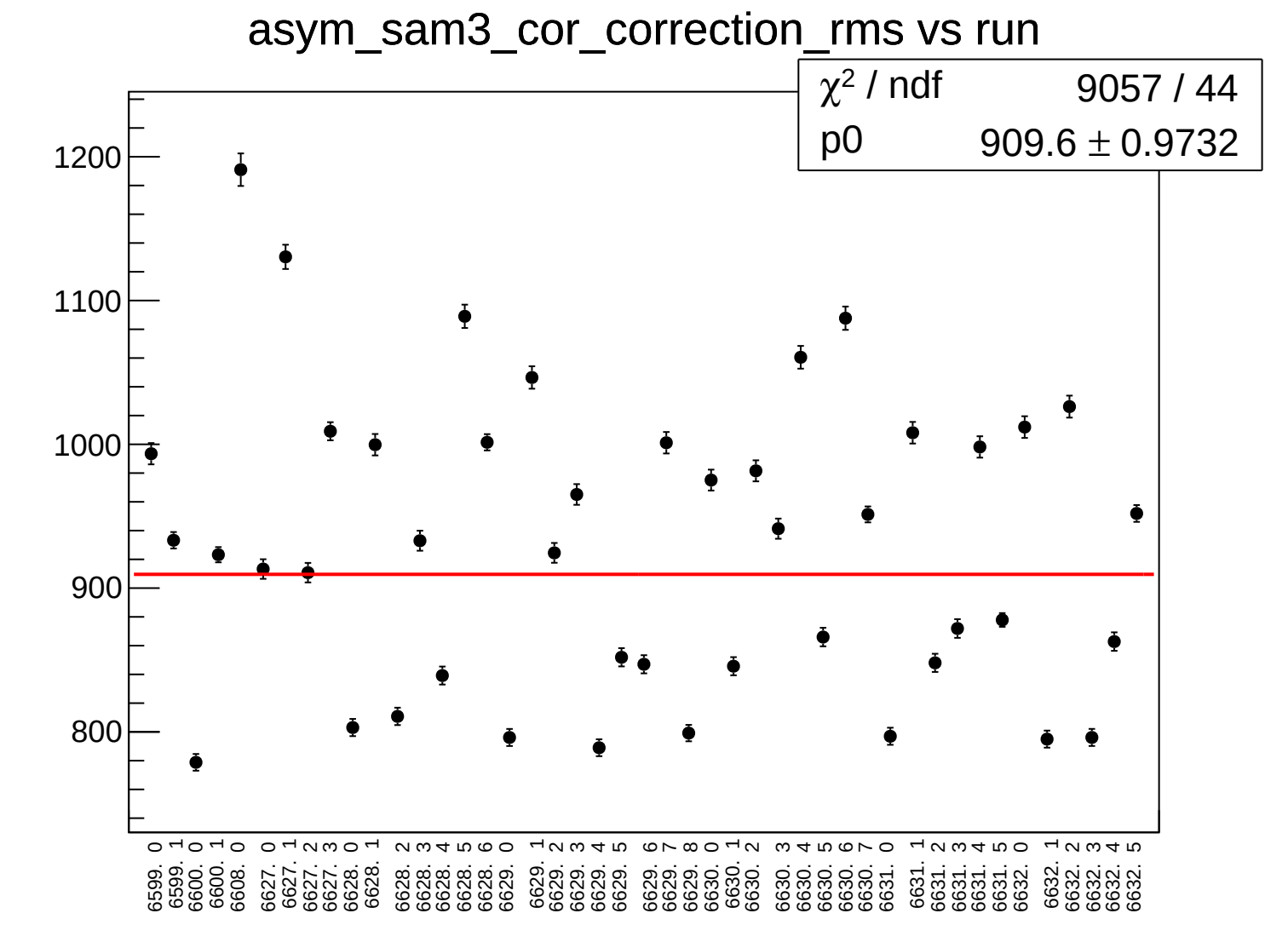

cor_asym_sam3_mean vs run
χ² / ndf 32.37 / 44
p0 217.1 ± 155.3
pull
Entries 45
Mean 1.544
Std Dev 0


pull1D
Entries 45
Mean 0.02317
Std Dev 0.8478


cor_asym_sam3_rms vs run
χ² / ndf 2.823e+04 / 44
p0 101.5 ± 0.1098
200
180
160
140
120
100
80
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam3_cor_correction_mean vs run
χ² / ndf 41.31 / 44
p0 2754 ± 1376
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 298.1
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.008542
Std Dev 0.9581
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam3_cor_correction_rms vs run
χ² / ndf 9057 / 44
p0 909.6 ± 0.9732
1200
1100
1000
900
800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
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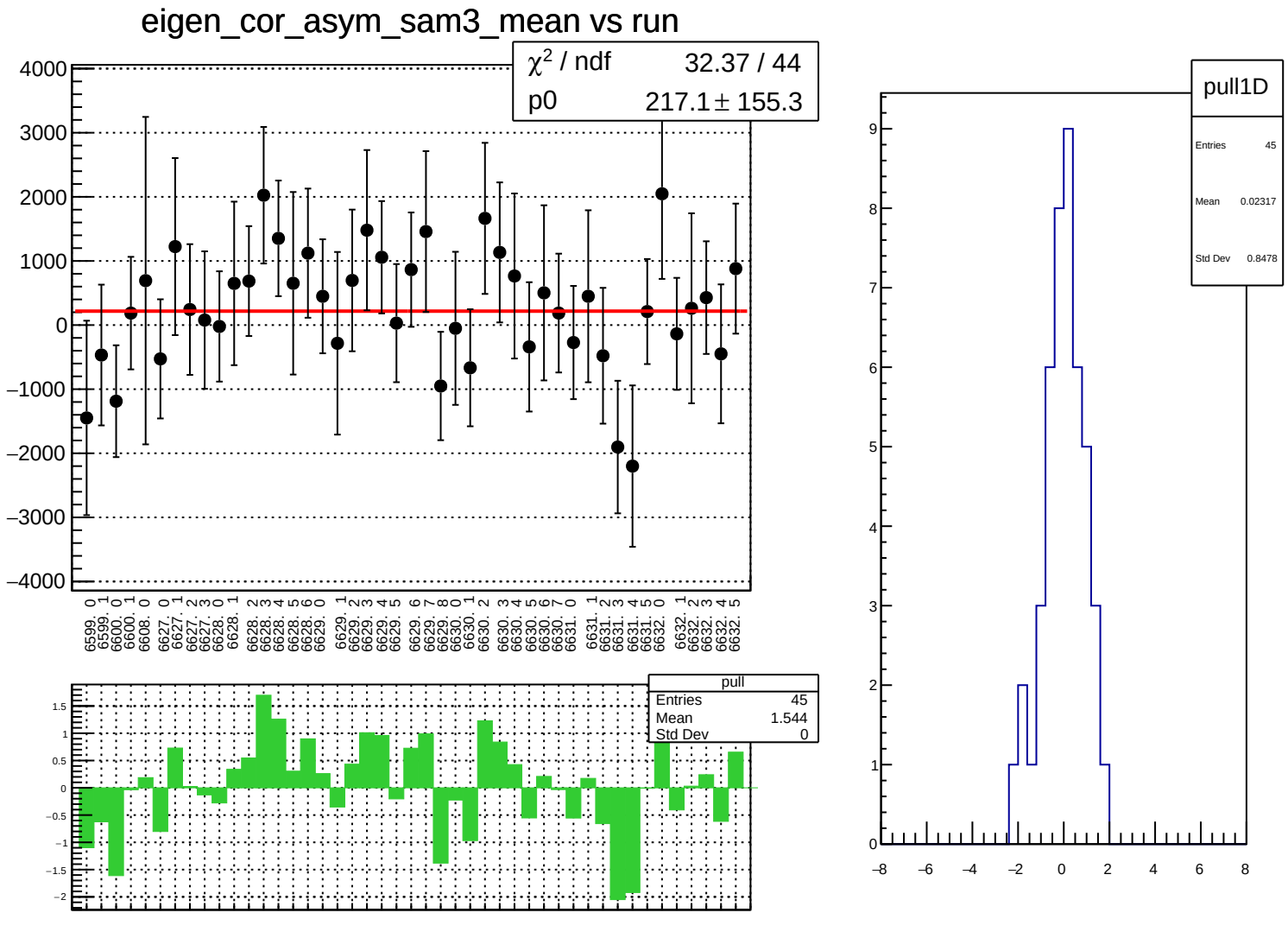
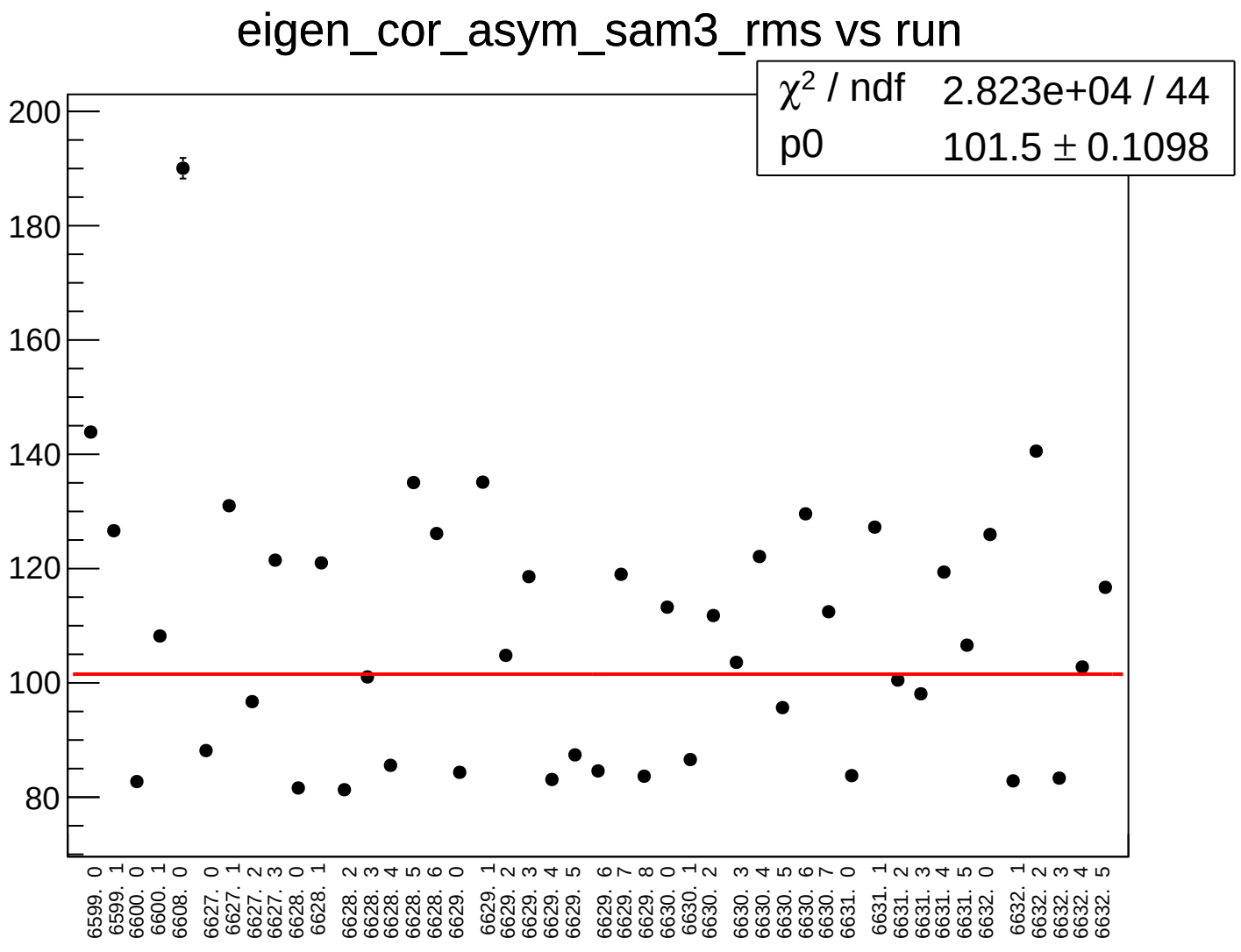
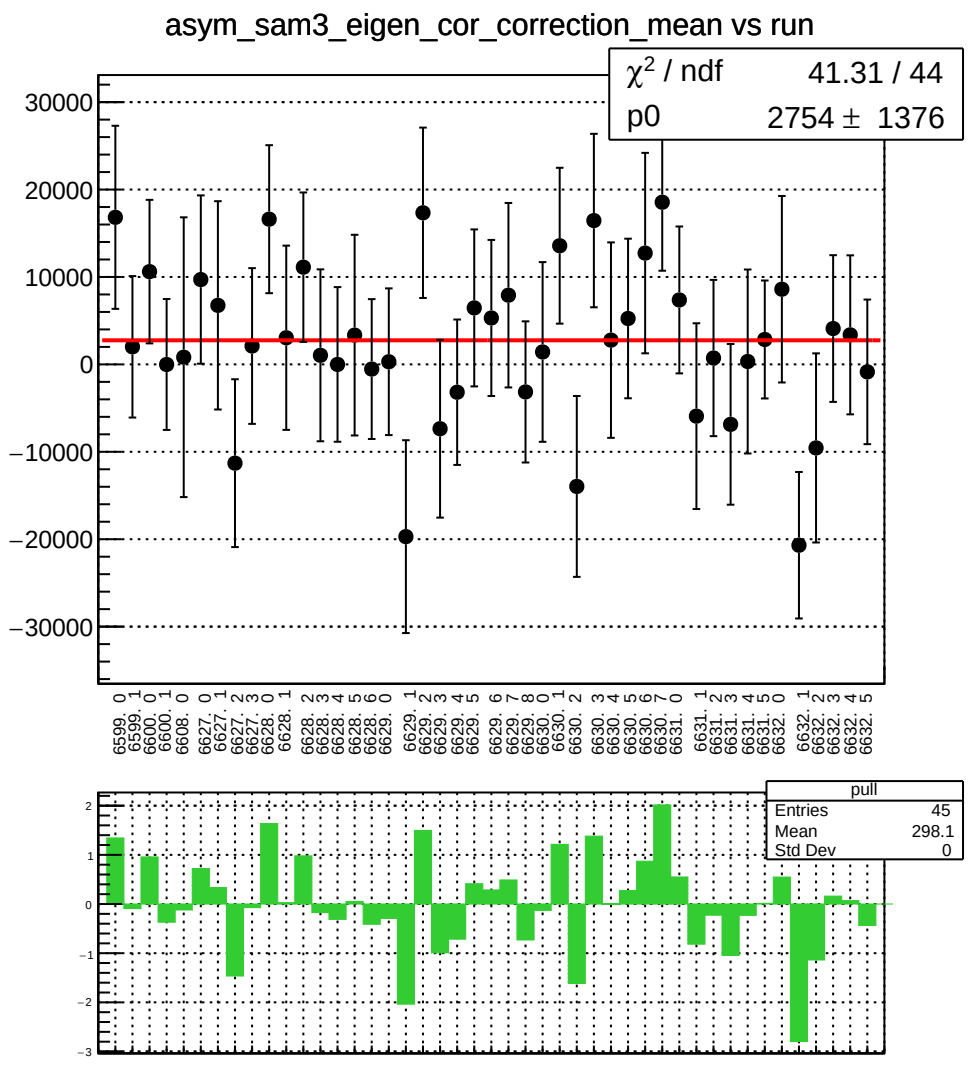
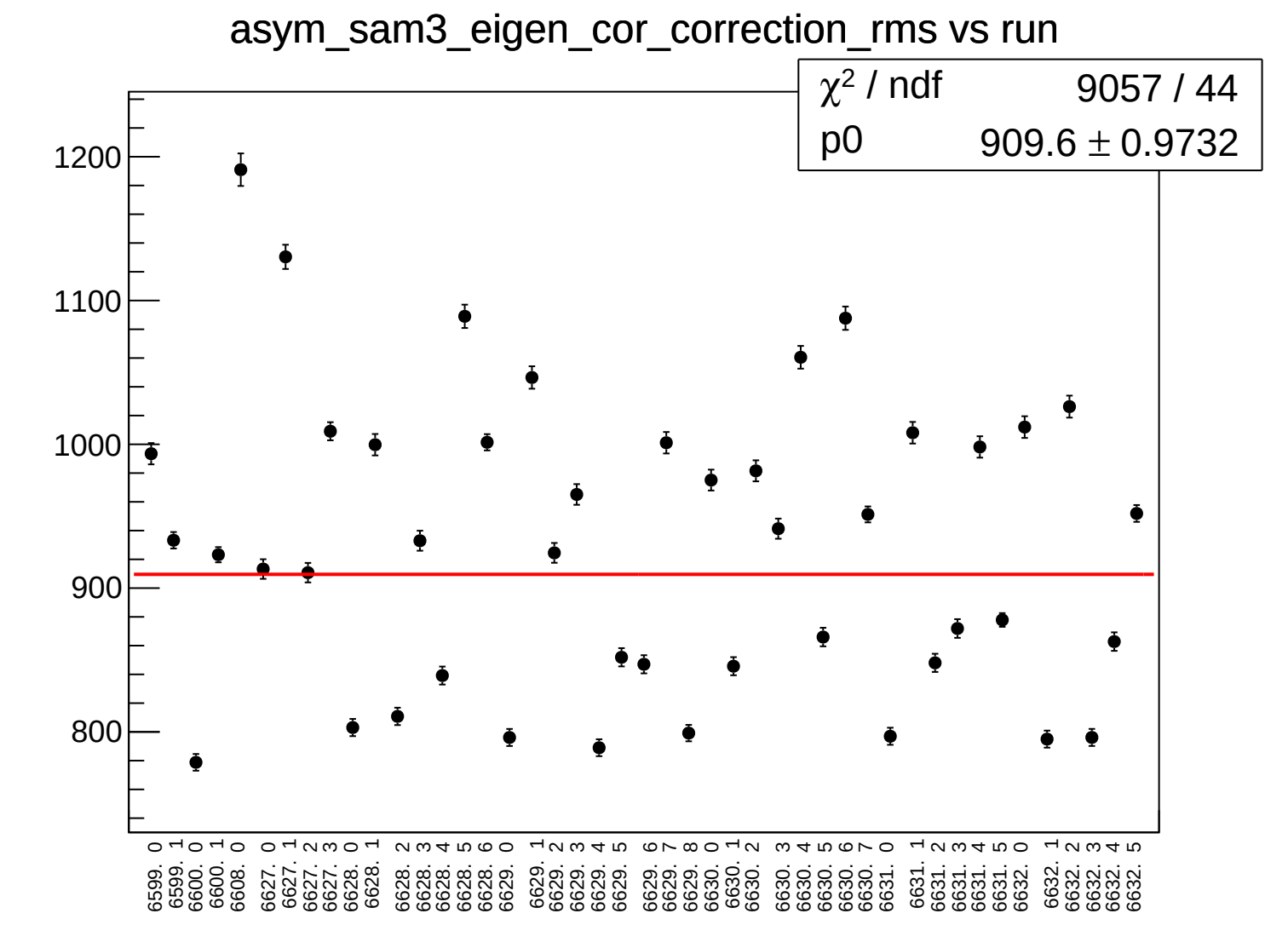
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_cor_asym_sam3_mean vs run
χ² / ndf 32.37 / 44
p0 217.1 ± 155.3
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 1.544
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.02317
Std Dev 0.8478
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam3_rms vs run
χ² / ndf 2.823e+04 / 44
p0 101.5 ± 0.1098
200
180
160
140
120
100
80
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 41.31 / 44
p0 2754 ± 1376
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 298.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.008542
Std Dev 0.9581
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 9057 / 44
p0 909.6 ± 0.9732
1200
1100
1000
900
800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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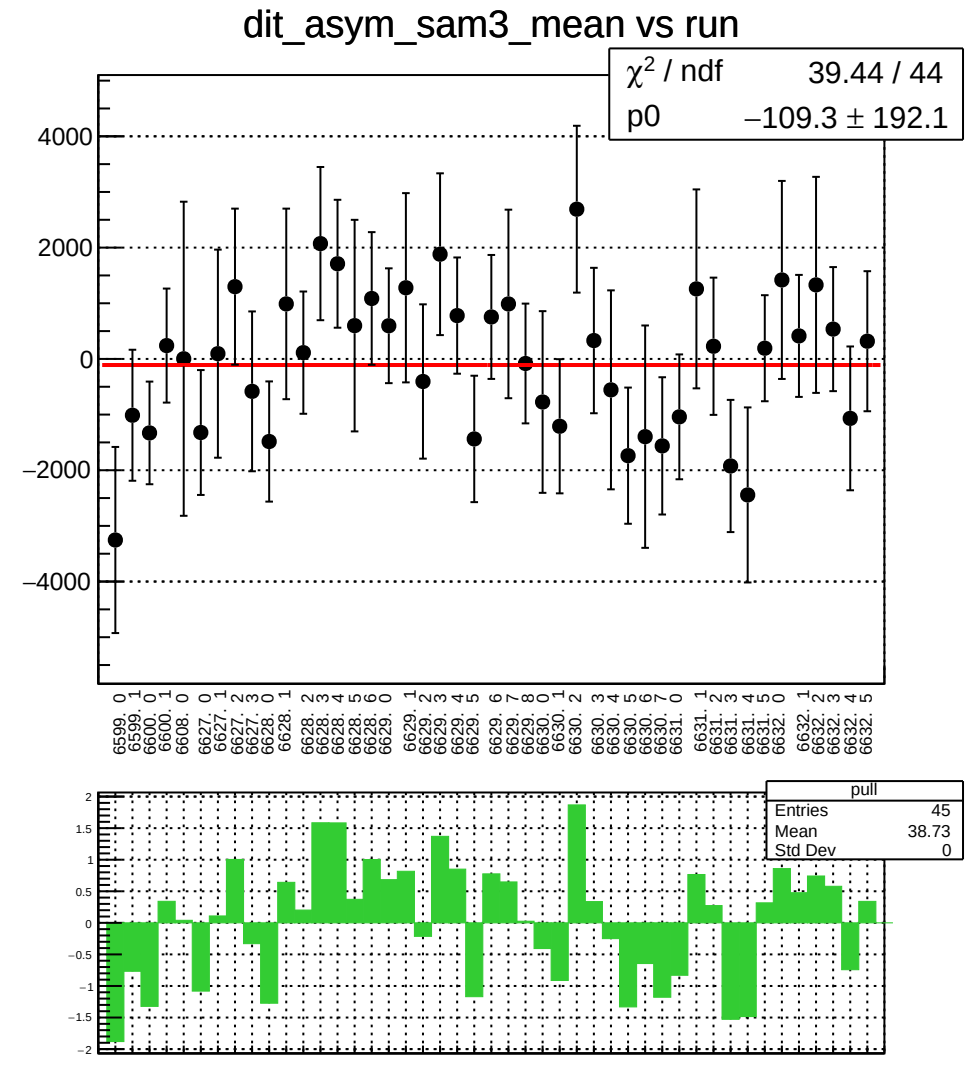
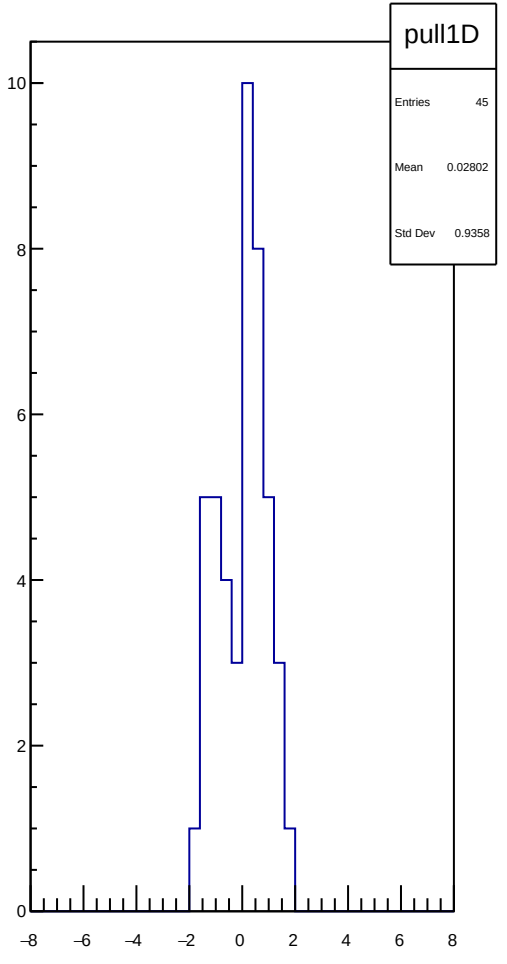
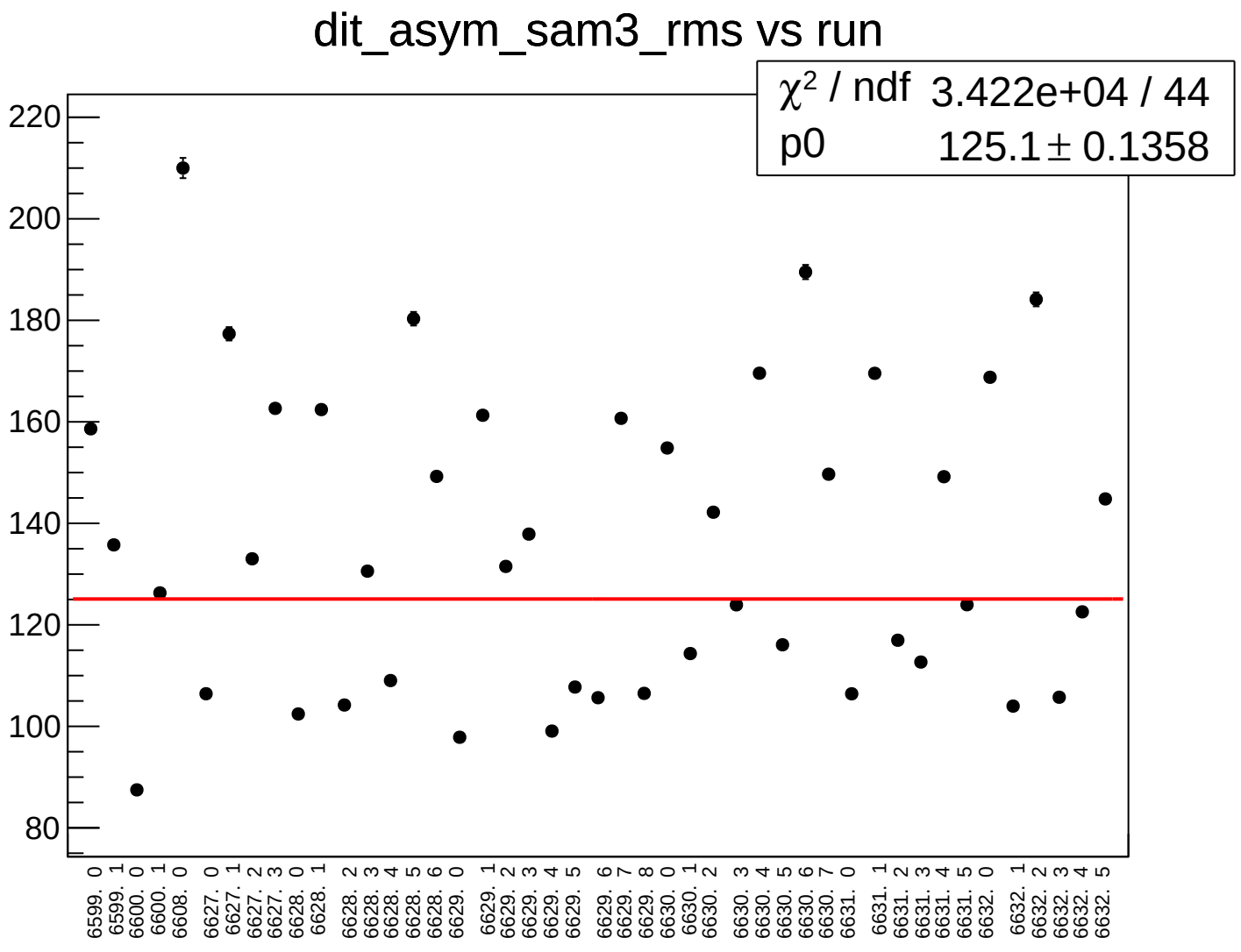
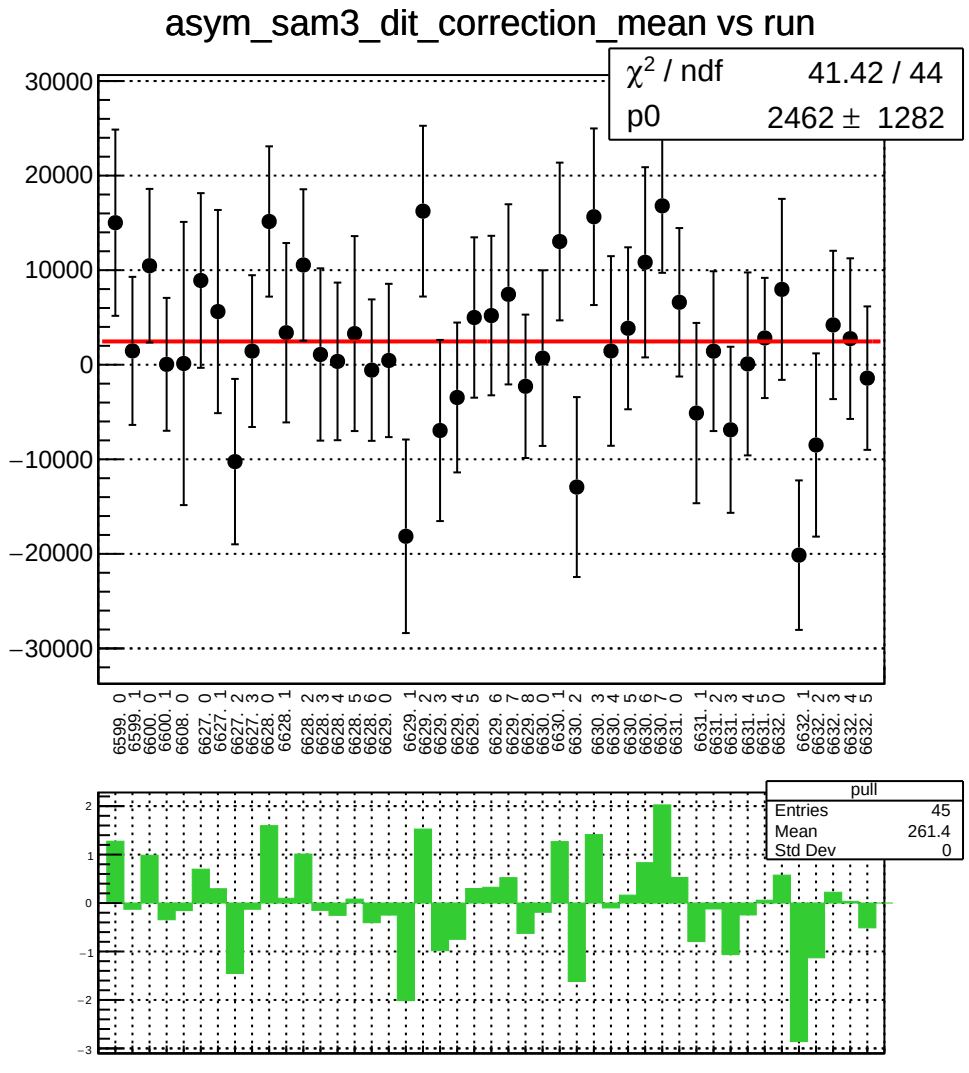
6632. 2
6632. 3
6632. 4
6632. 5


dit_asym_sam3_mean vs run
χ² / ndf 39.44 / 44
p0 −109.3 ± 192.1
4000
2000
0
−2000
−4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 38.73
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.02802
Std Dev 0.9358
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam3_rms vs run
χ² / ndf 3.422e+04 / 44
p0 125.1 ± 0.1358
220
200
180
160
140
120
100
80
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam3_dit_correction_mean vs run
χ² / ndf 41.42 / 44
p0 2462 ± 1282
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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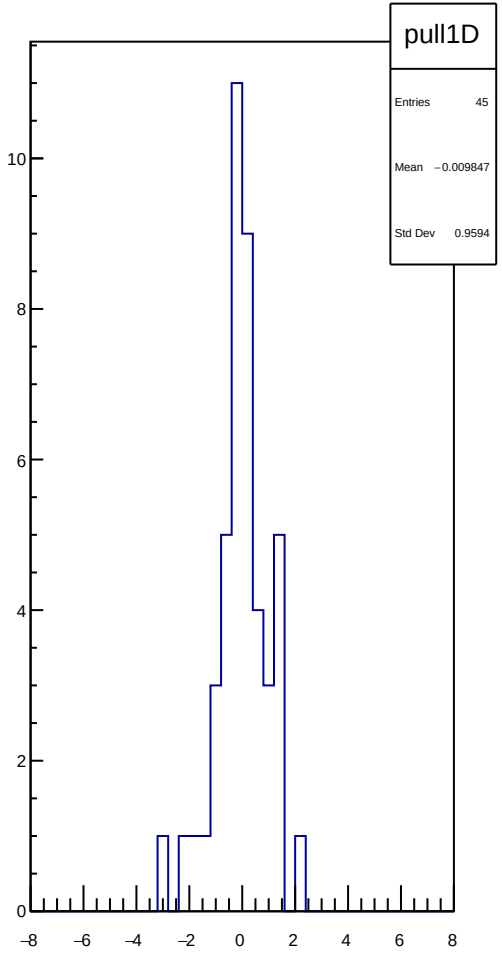
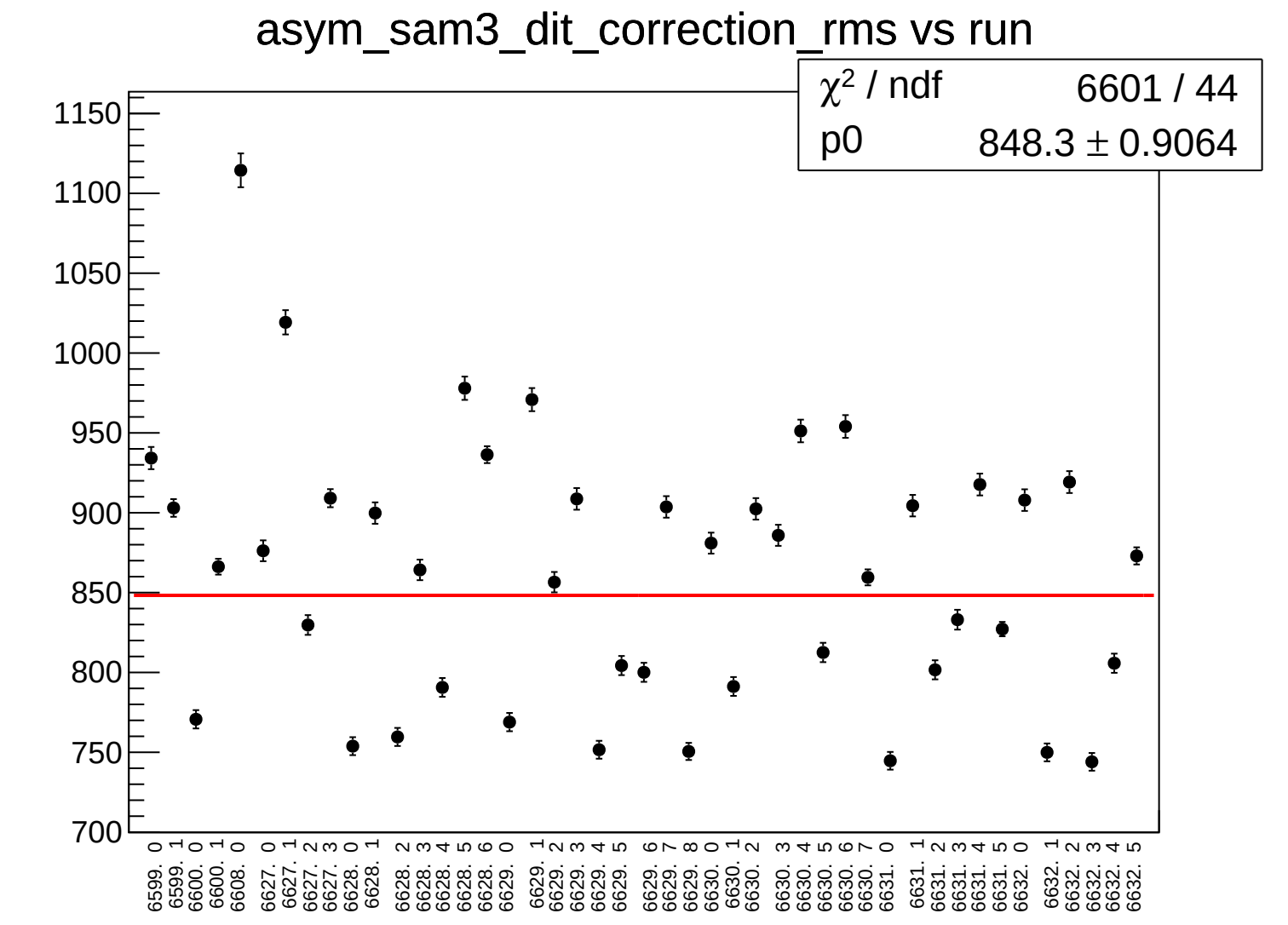
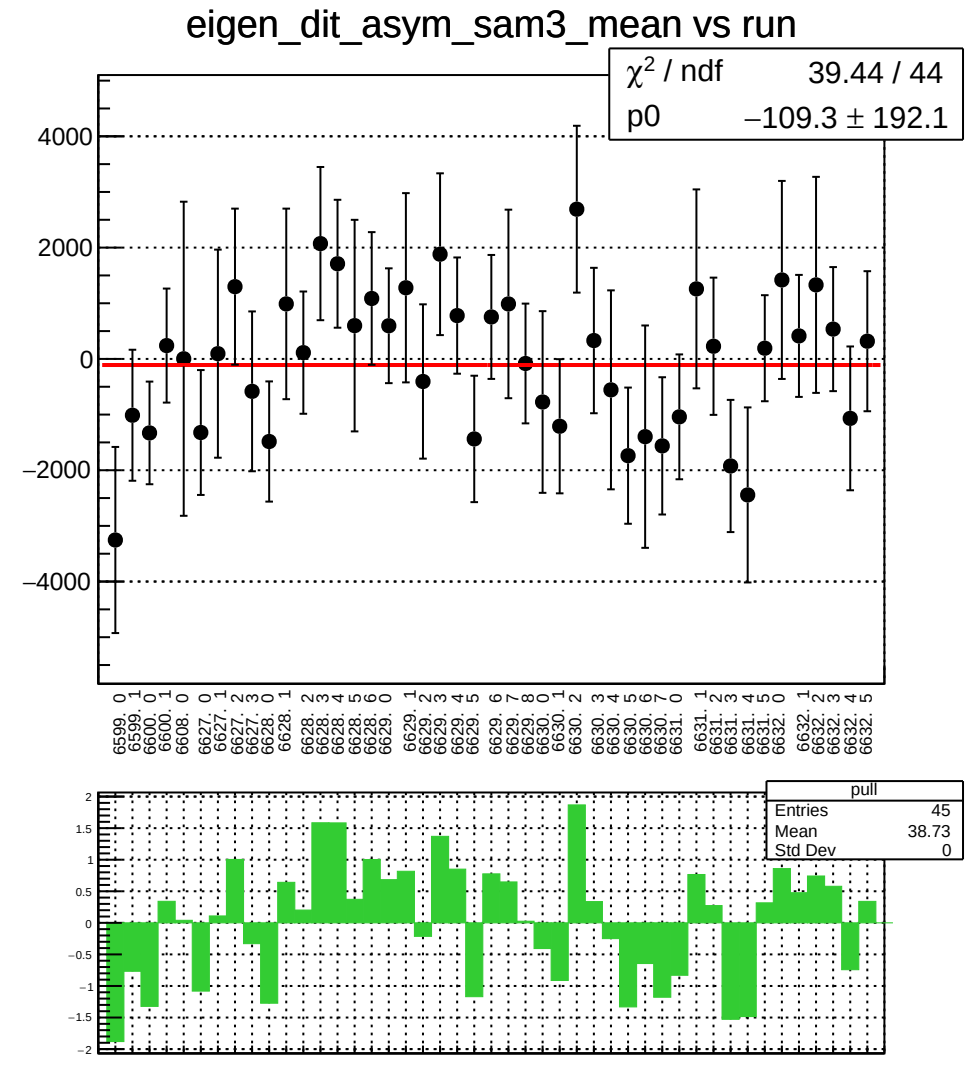
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 261.4
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.009847
Std Dev 0.9594
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam3_dit_correction_rms vs run
χ² / ndf 6601 / 44
p0 848.3 ± 0.9064
1150
1100
1050
1000
950
900
850
800
750
700
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_sam3_mean vs run
χ² / ndf 39.44 / 44
p0 −109.3 ± 192.1
4000
2000
0
−2000
−4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
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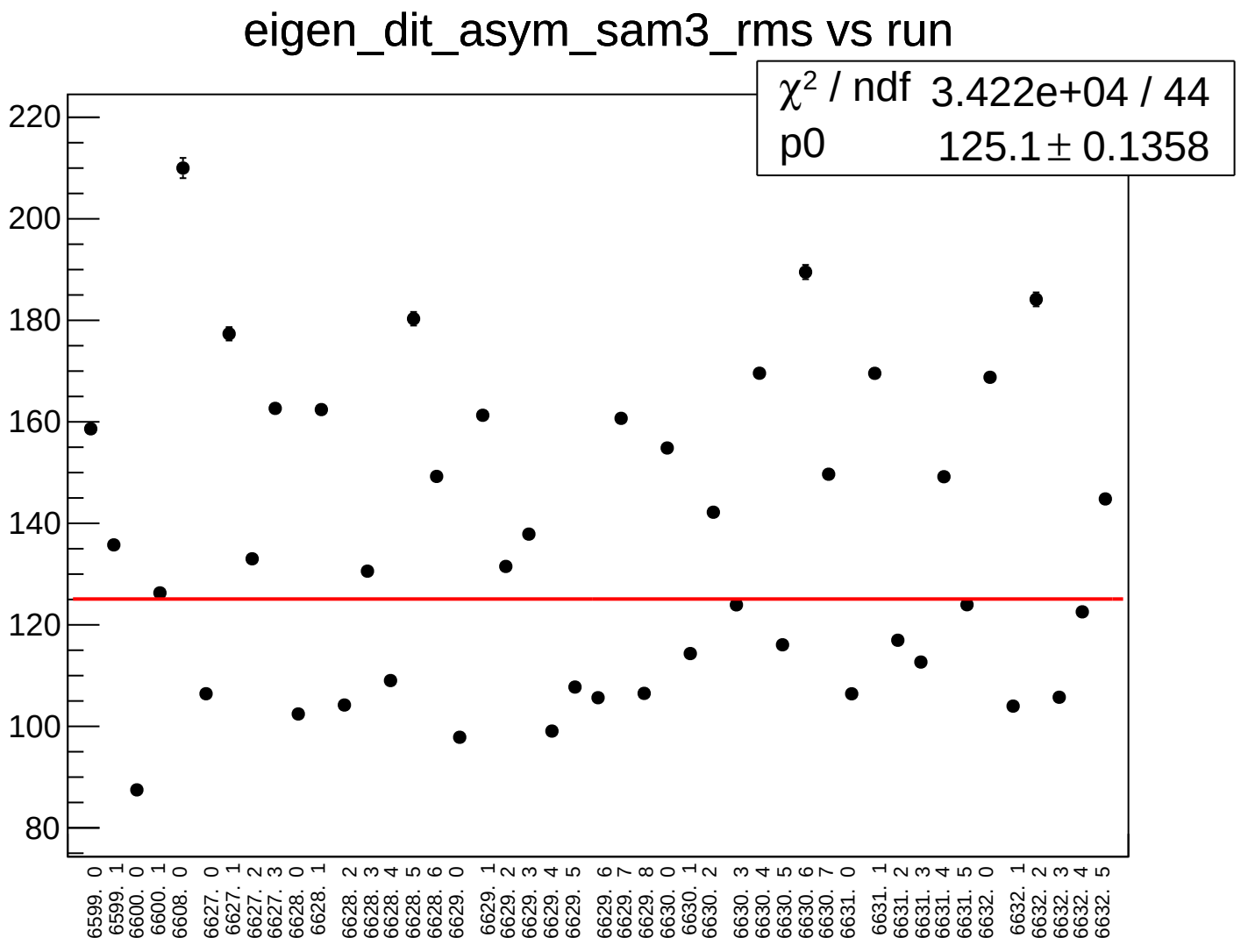
6628. 5
6628. 6
6628. 0
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 38.73
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.02802
Std Dev 0.9358
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam3_rms vs run
χ² / ndf 3.422e+04 / 44
p0 125.1 ± 0.1358
220
200
180
160
140
120
100
80
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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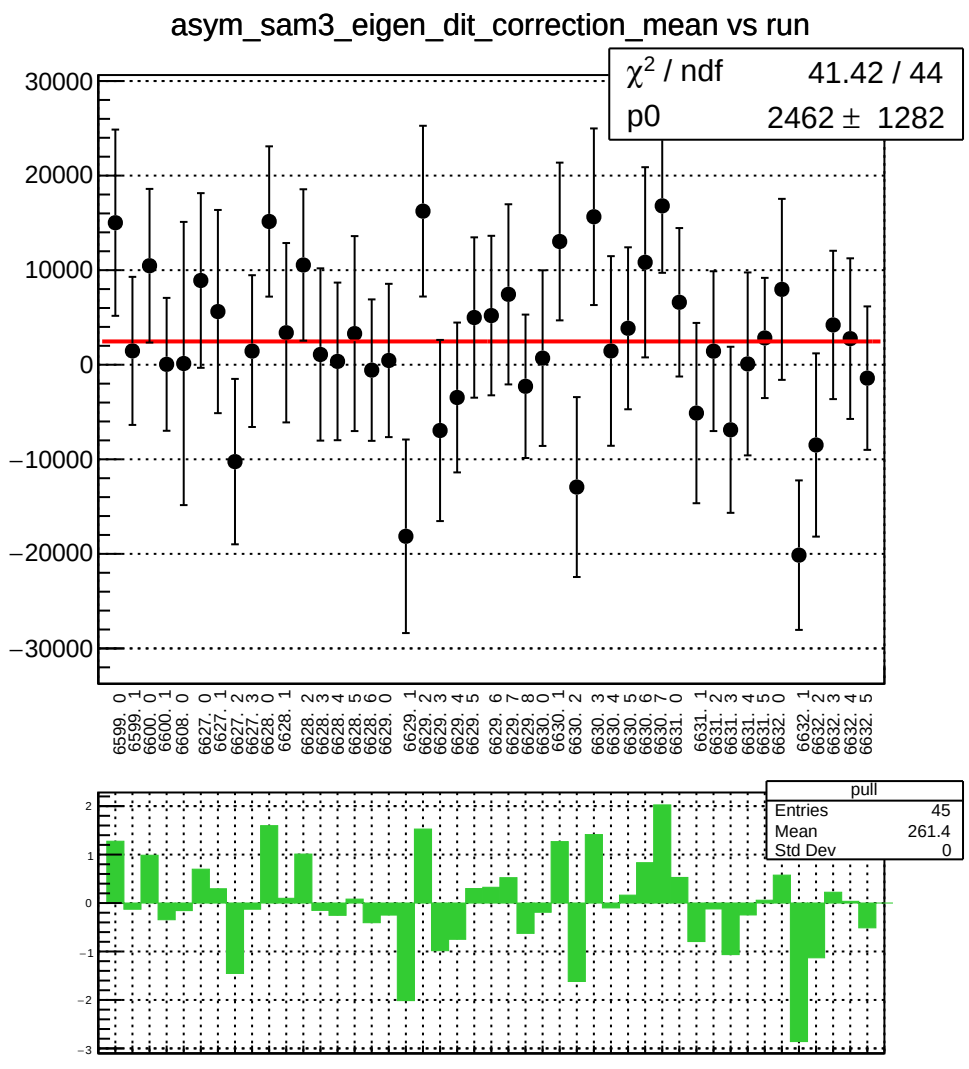
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam3_eigen_dit_correction_mean vs run
χ² / ndf 41.42 / 44
p0 2462 ± 1282
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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6628. 3
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6628. 6
6629. 0
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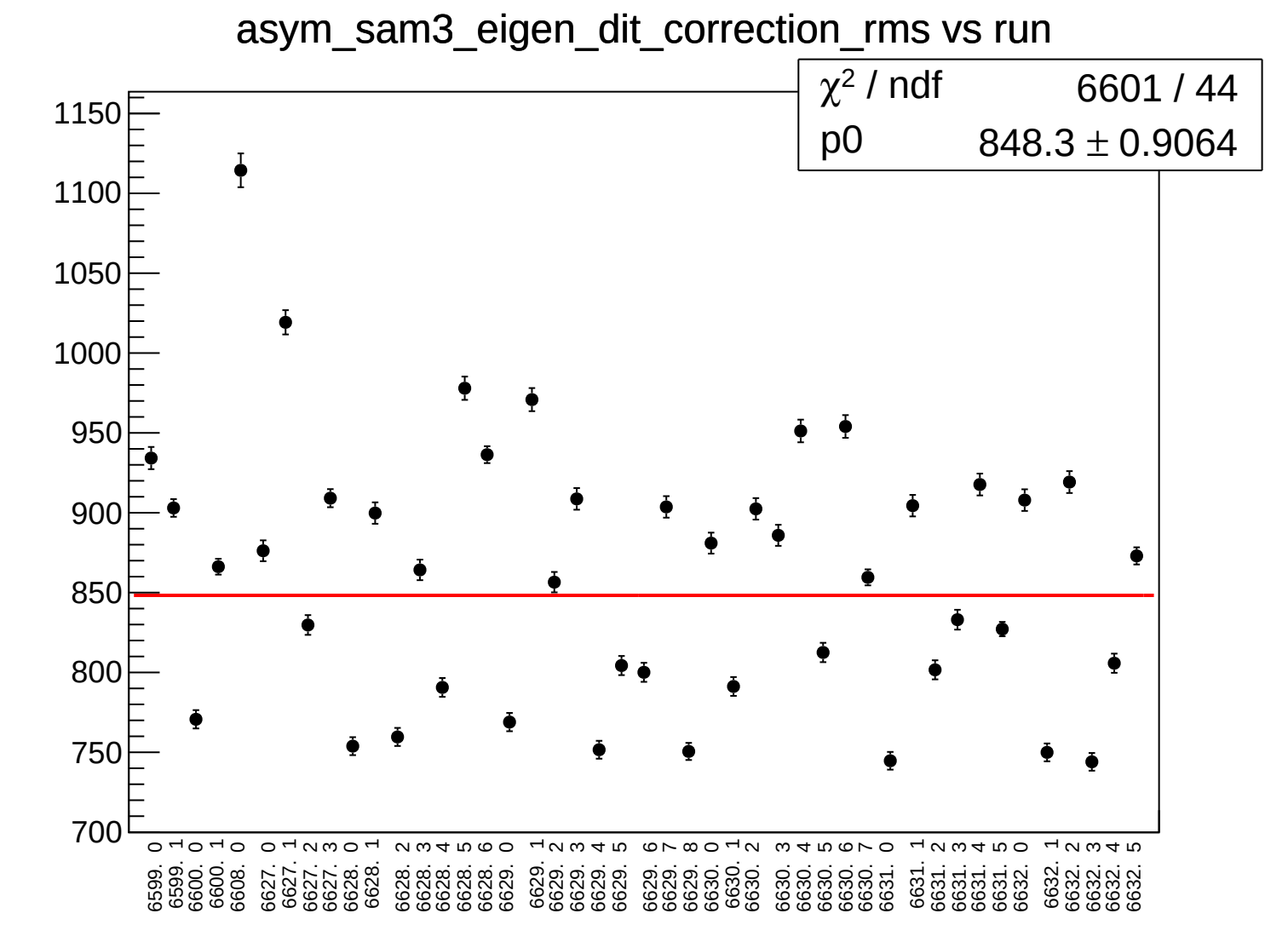
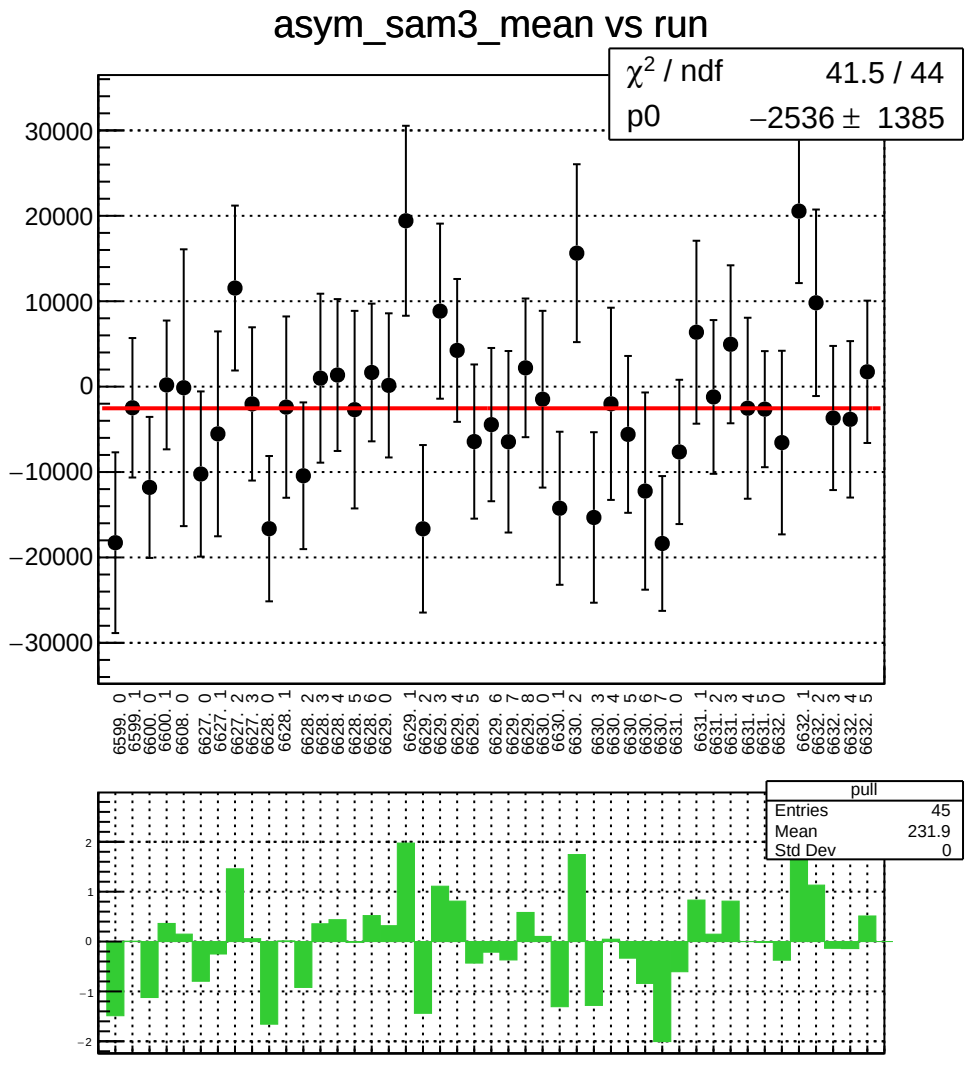
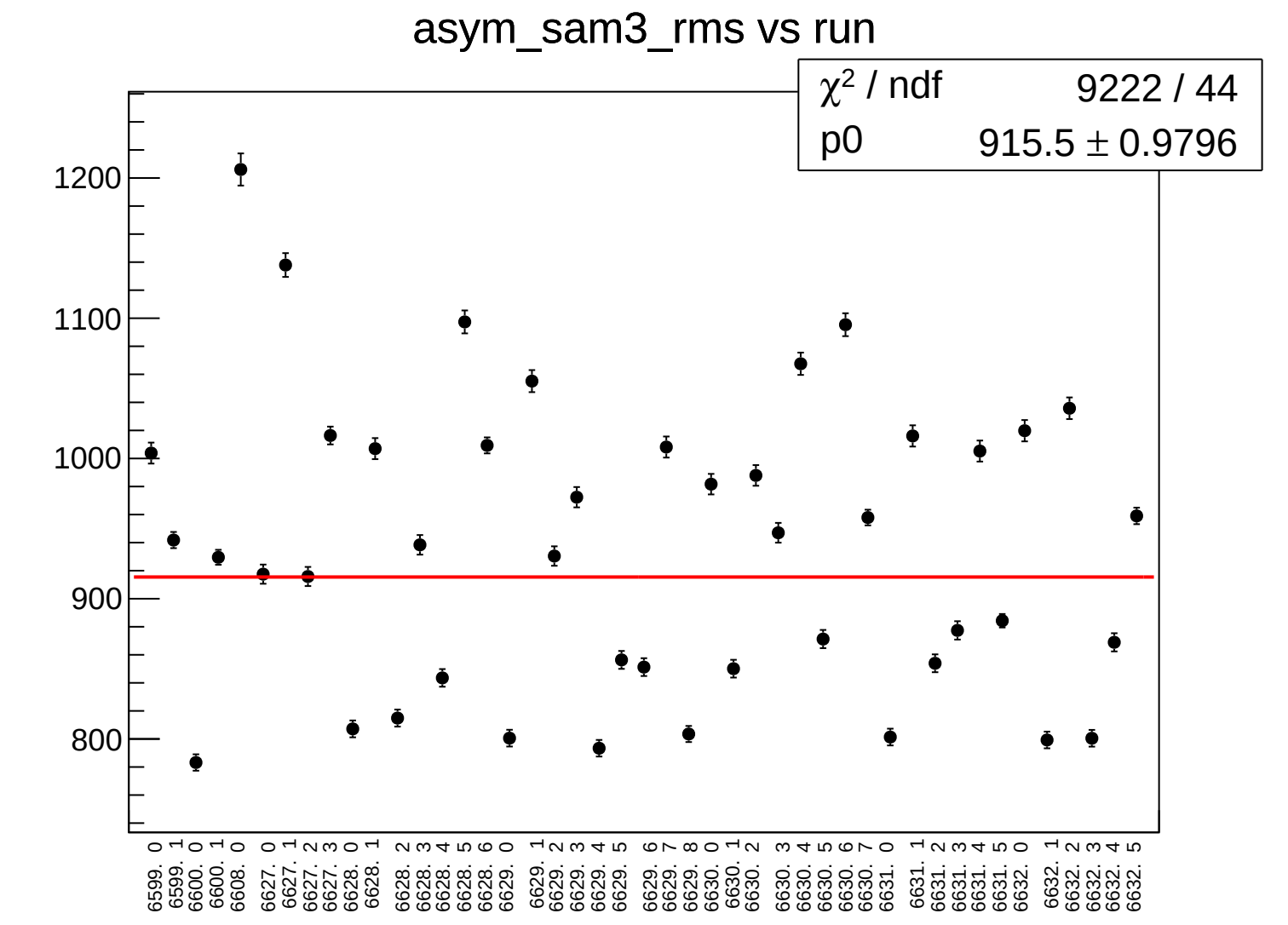
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 261.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.009848
Std Dev 0.9594
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 6601 / 44
p0 848.3 ± 0.9064
1150
1100
1050
1000
950
900
850
800
750
700
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam3_mean vs run
χ² / ndf 41.5 / 44
p0 −2536 ± 1385
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 231.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.011
Std Dev 0.9602
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam3_rms vs run
χ² / ndf 9222 / 44
p0 915.5 ± 0.9796
1200
1100
1000
900
800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 3
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6629. 5
6629. 6
6629. 7
6629. 8
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6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
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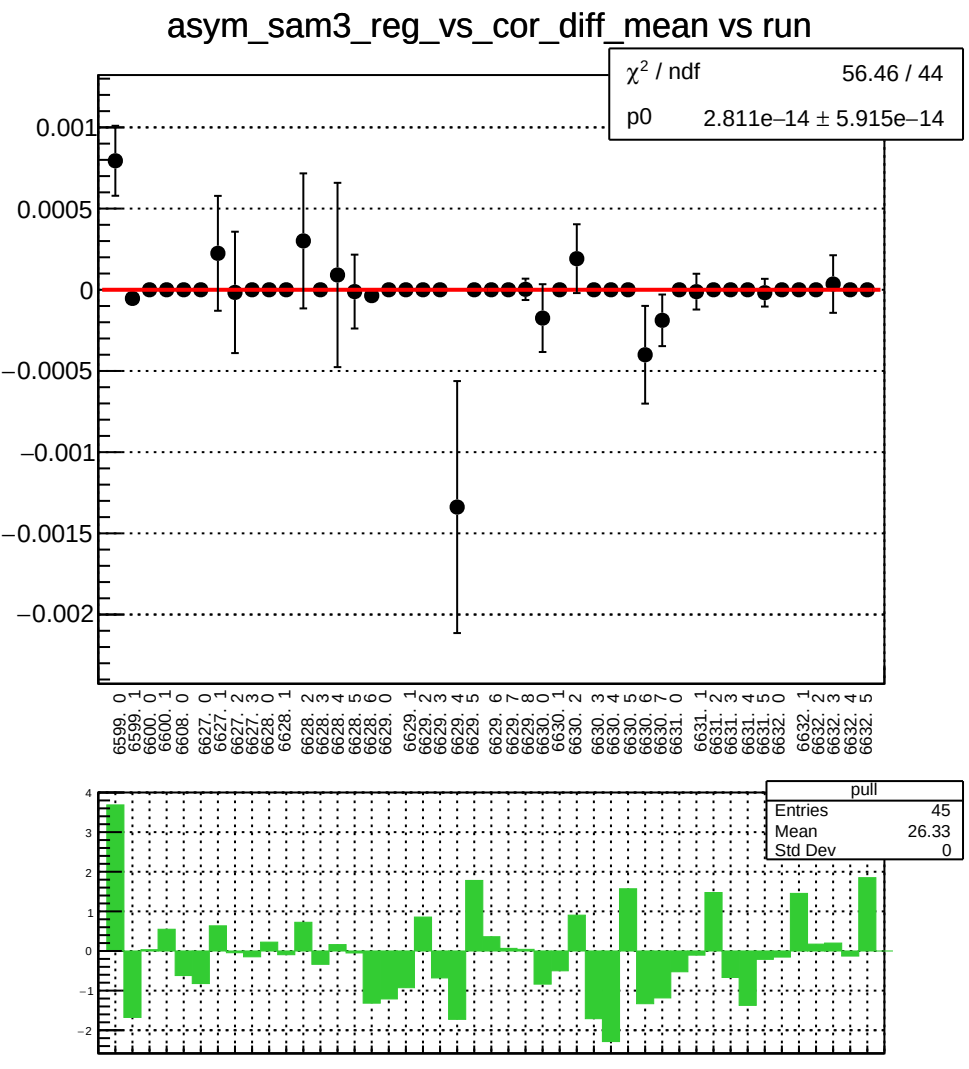
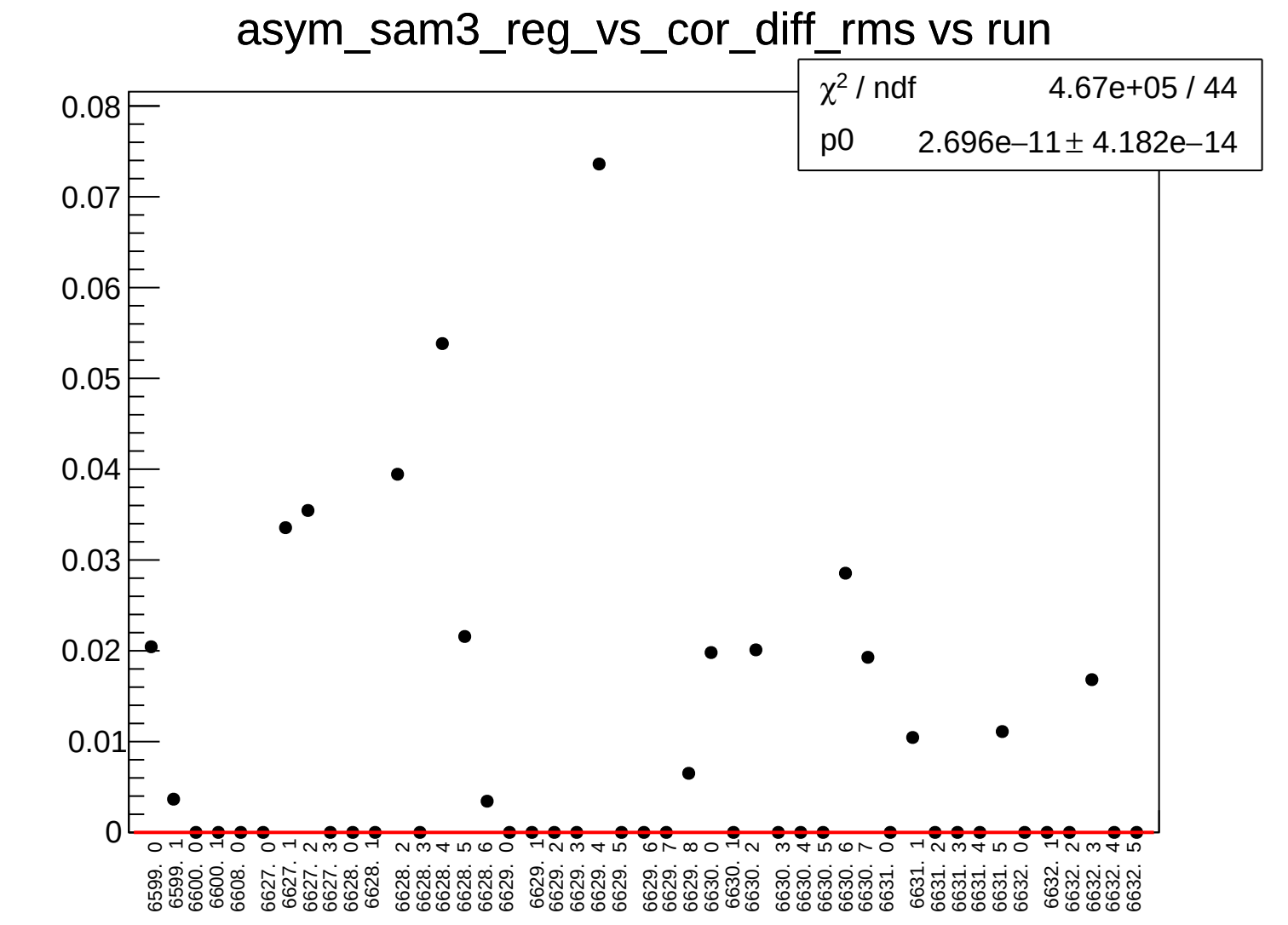
6632. 4
6632. 5


asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 56.46 / 44
p0 2.811e−14 ± 5.915e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 26.33
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.08688
Std Dev 1.117
9
8
7
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 4.67e+05 / 44
p0 2.696e−11 ± 4.182e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
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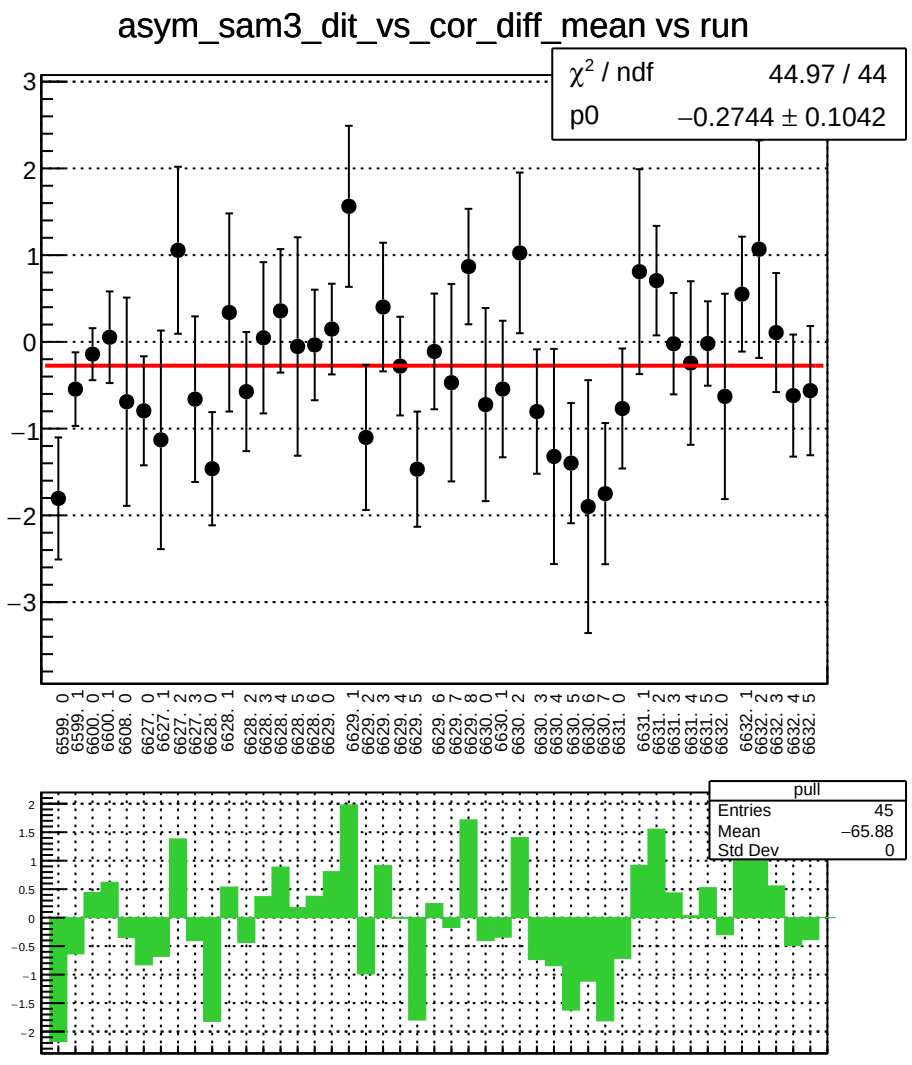
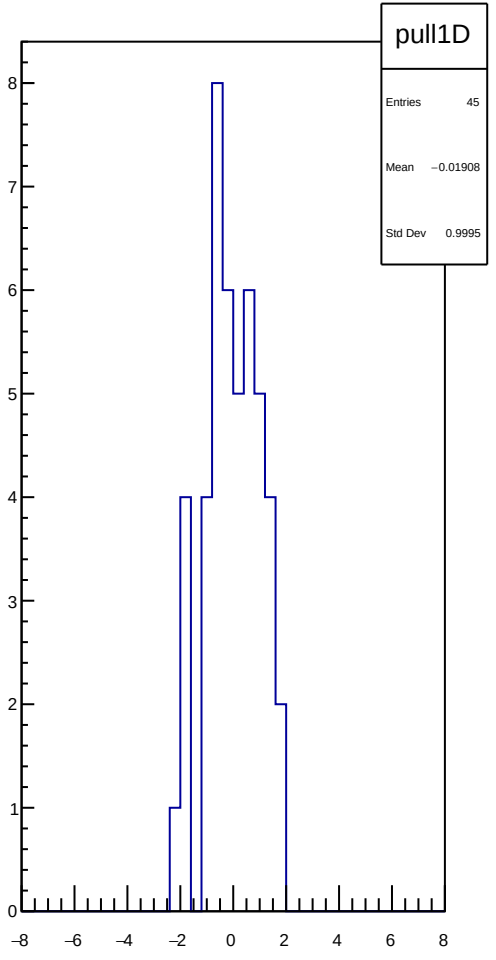
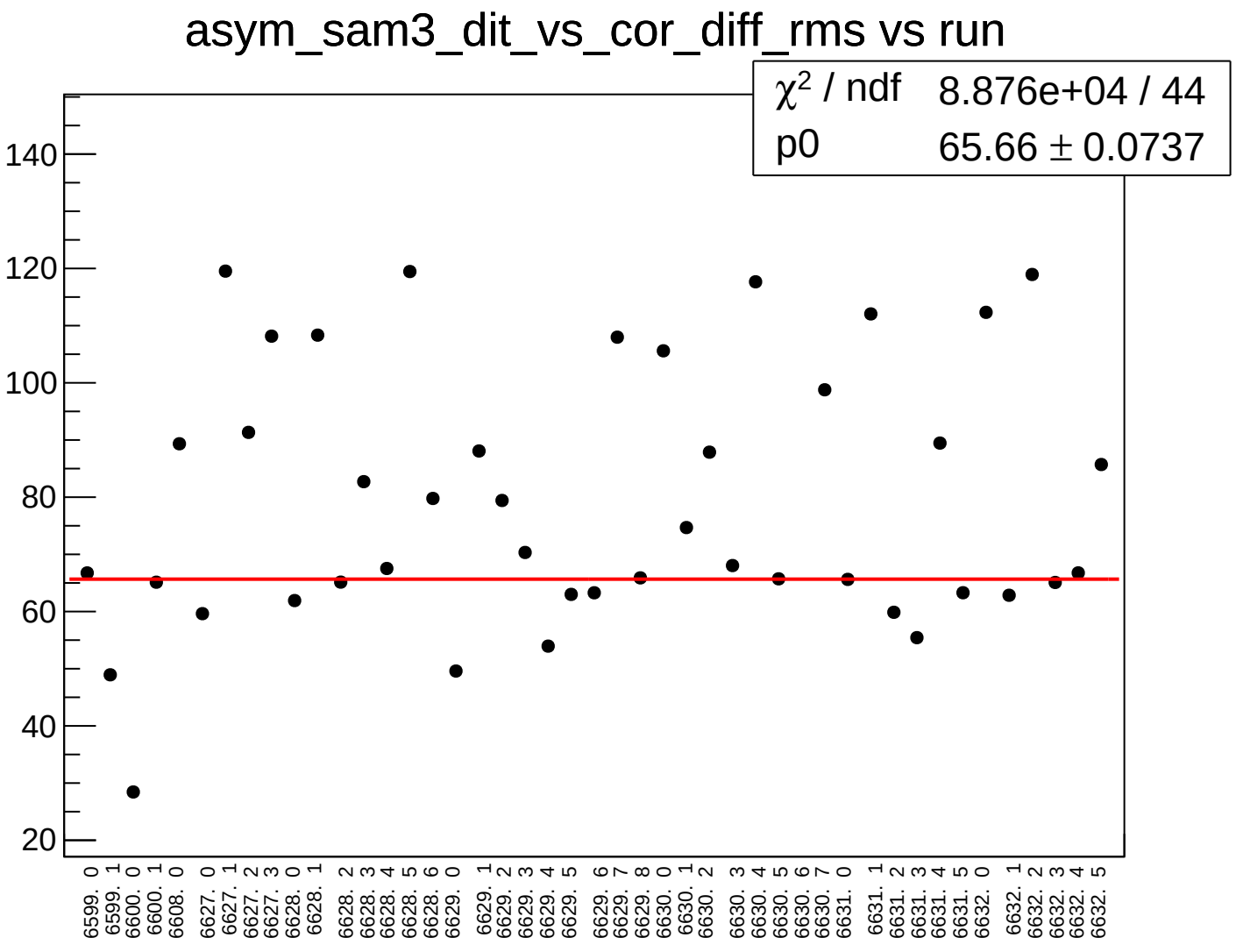
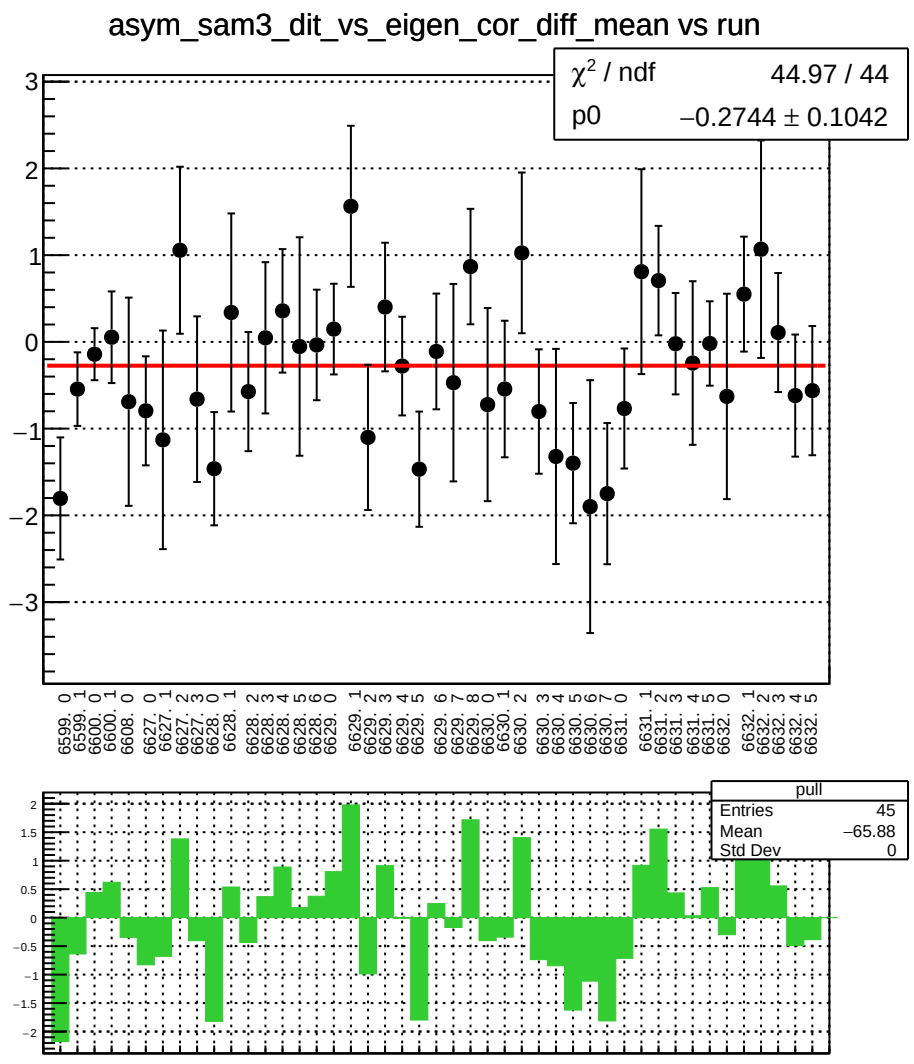
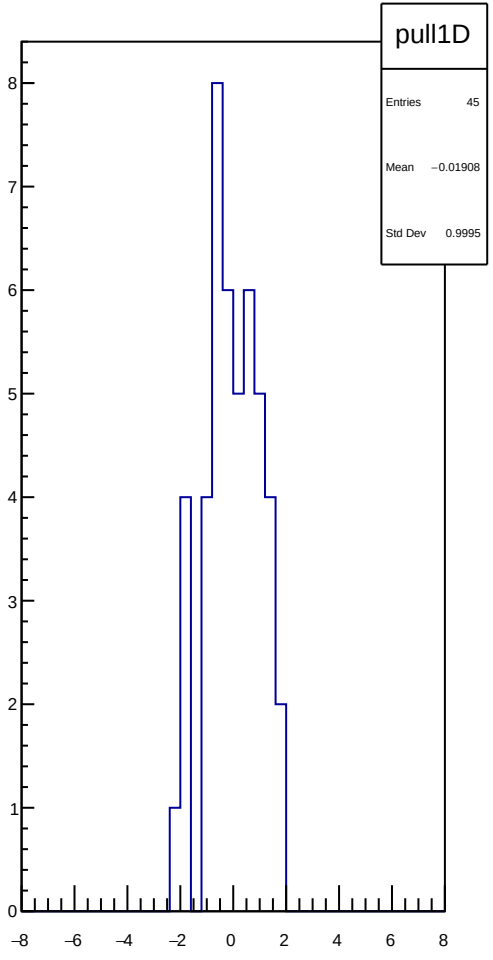
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

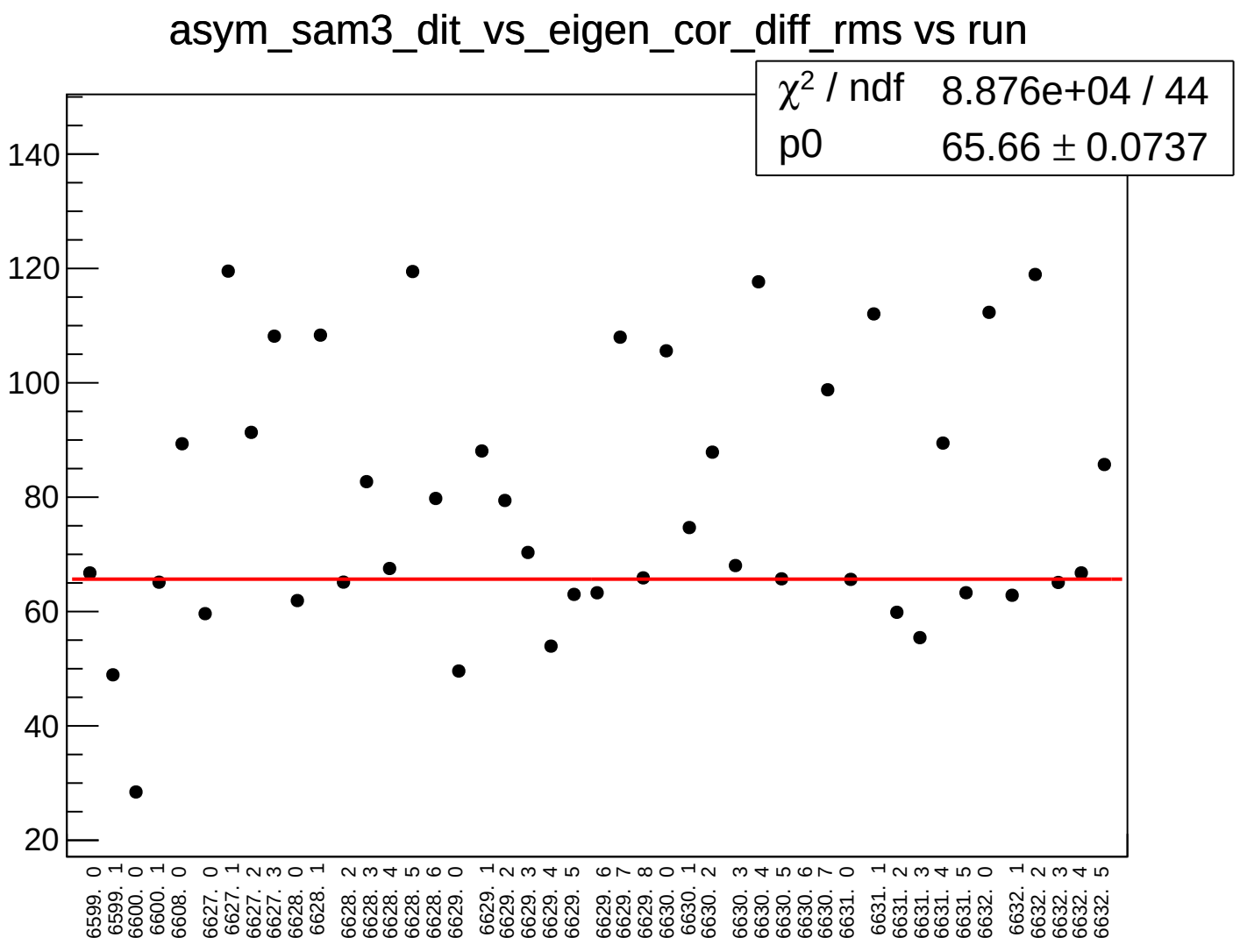

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 44.97 / 44
p0 −0.2744 ± 0.1042
pull
Entries 45
Mean −65.88
Std Dev 0

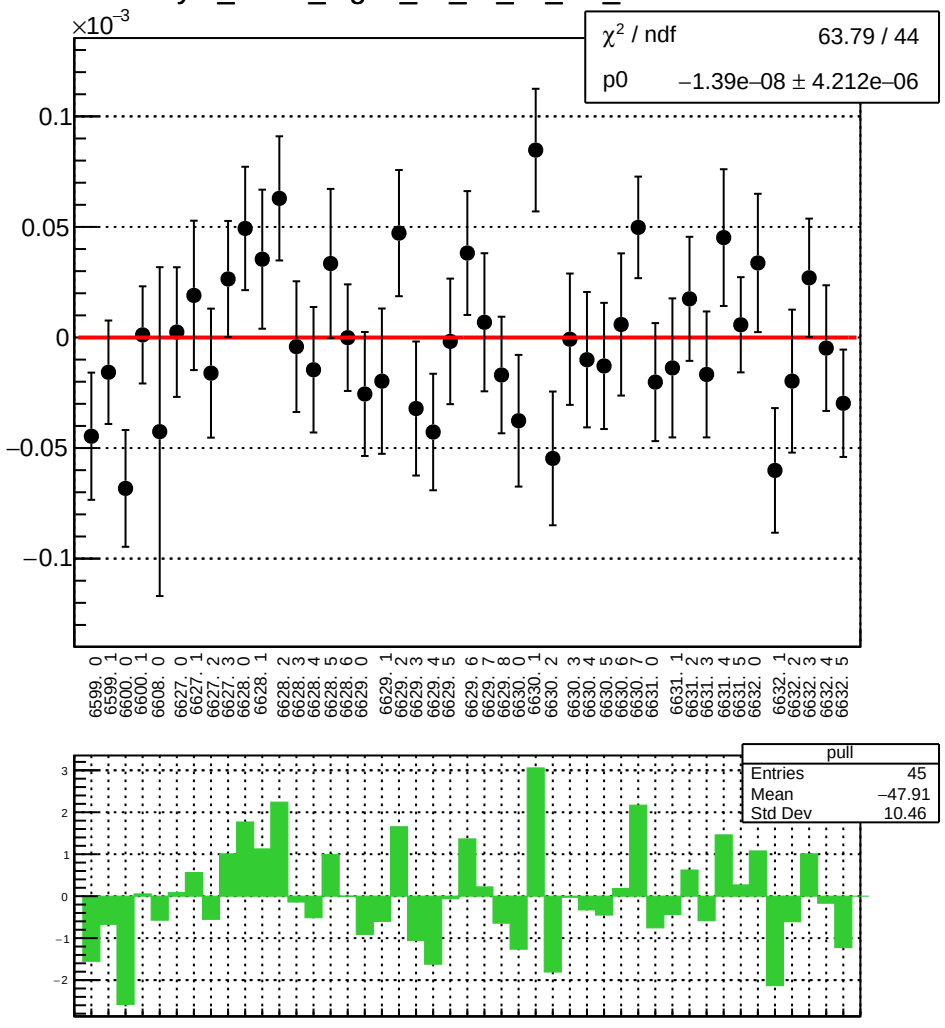

pull1D
Entries 45
Mean −0.01908
Std Dev 0.9995

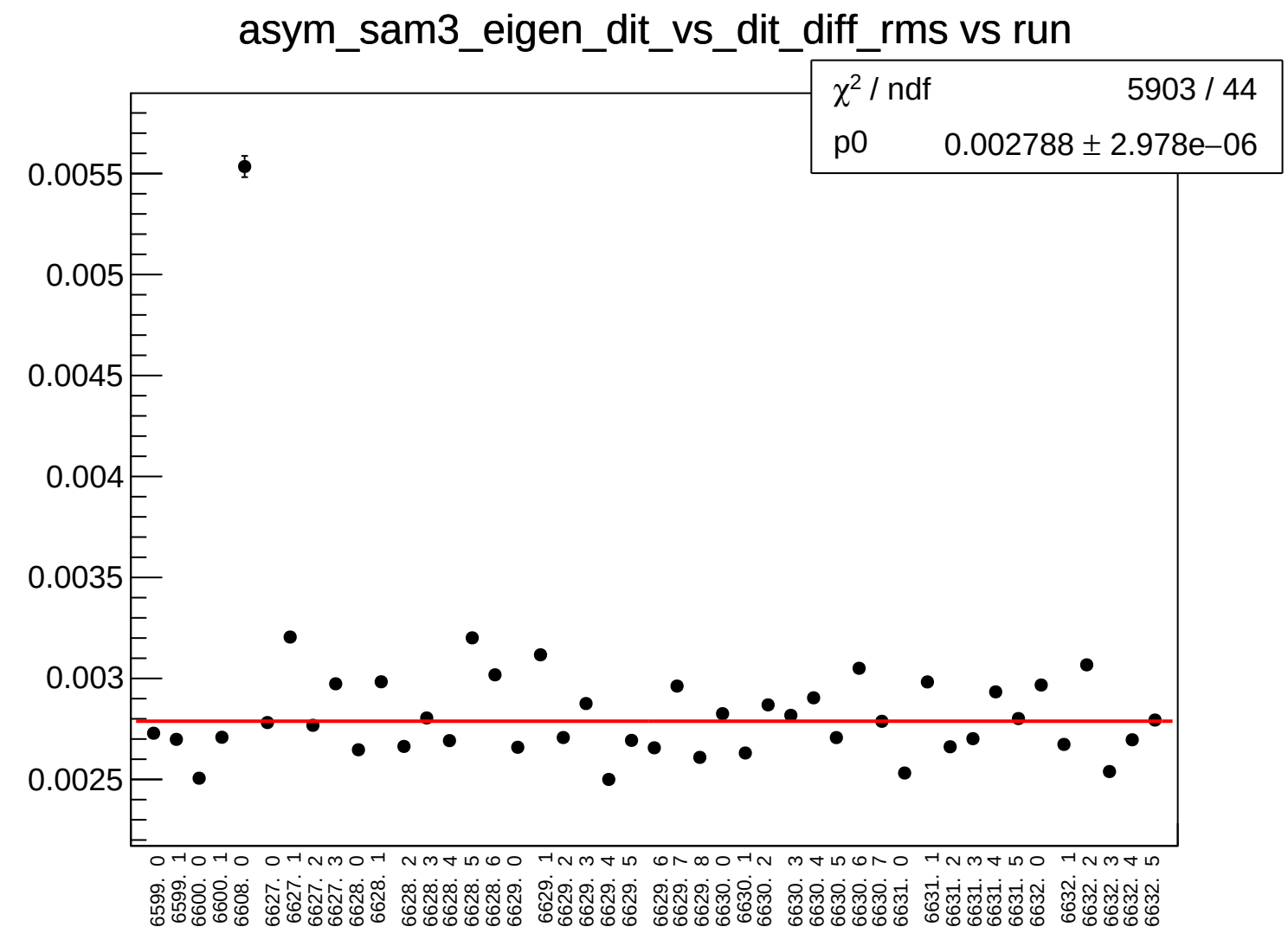

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 8.876e+04 / 44
p0 65.66 ± 0.0737
140
120
100
80
60
40
20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

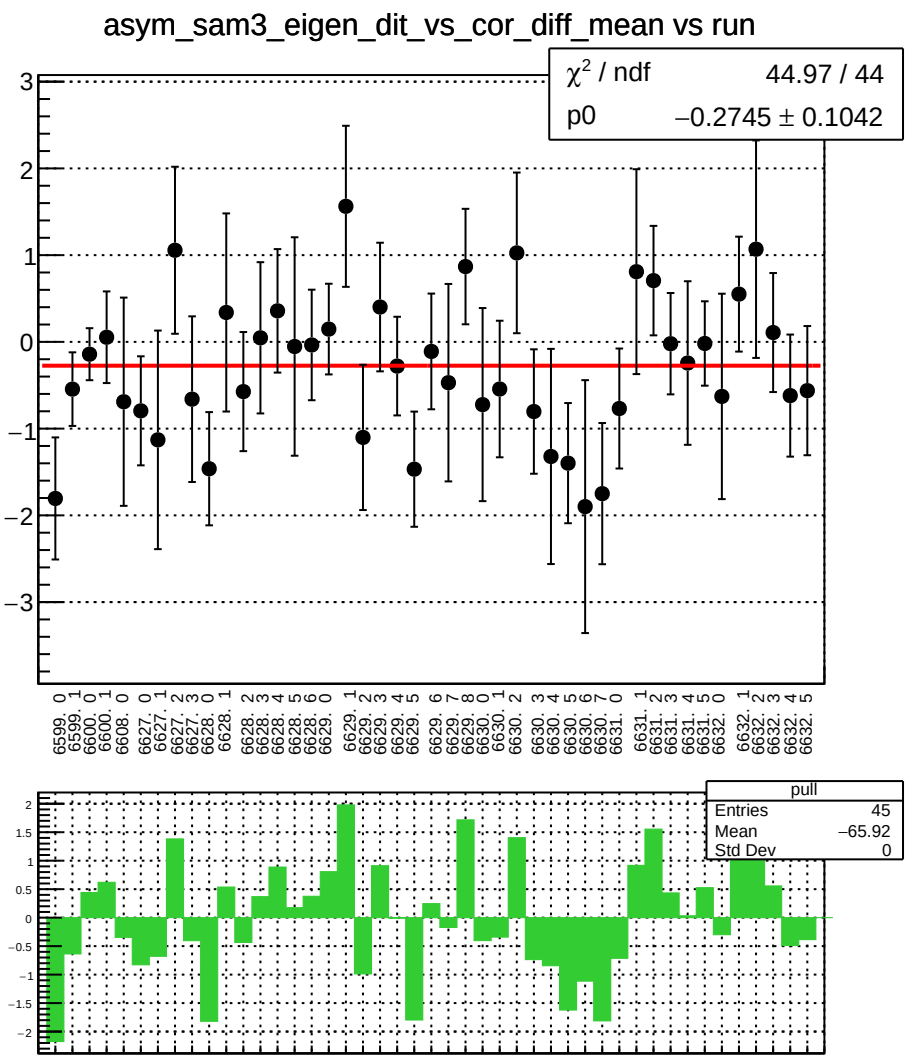

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 44.97 / 44
p0 −0.2744 ± 0.1042
pull
Entries 45
Mean −65.88
Std Dev 0

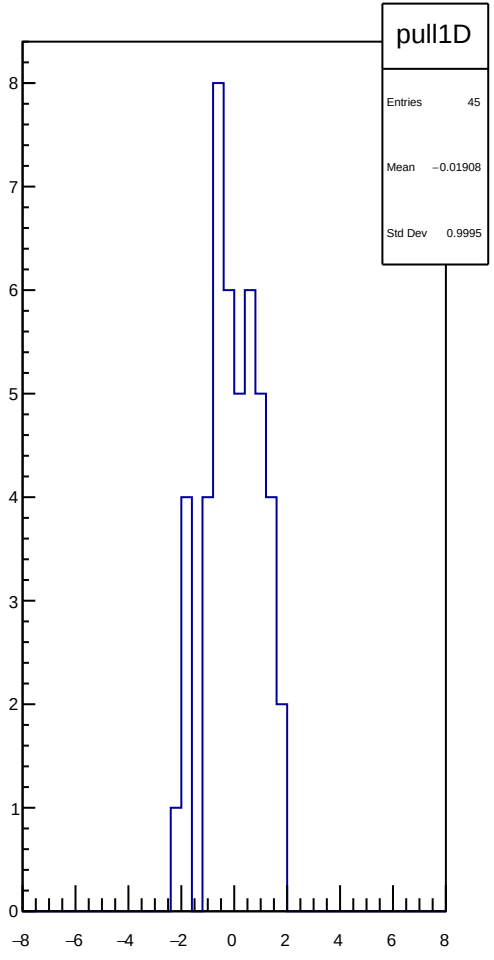

pull1D
Entries 45
Mean −0.01908
Std Dev 0.9995

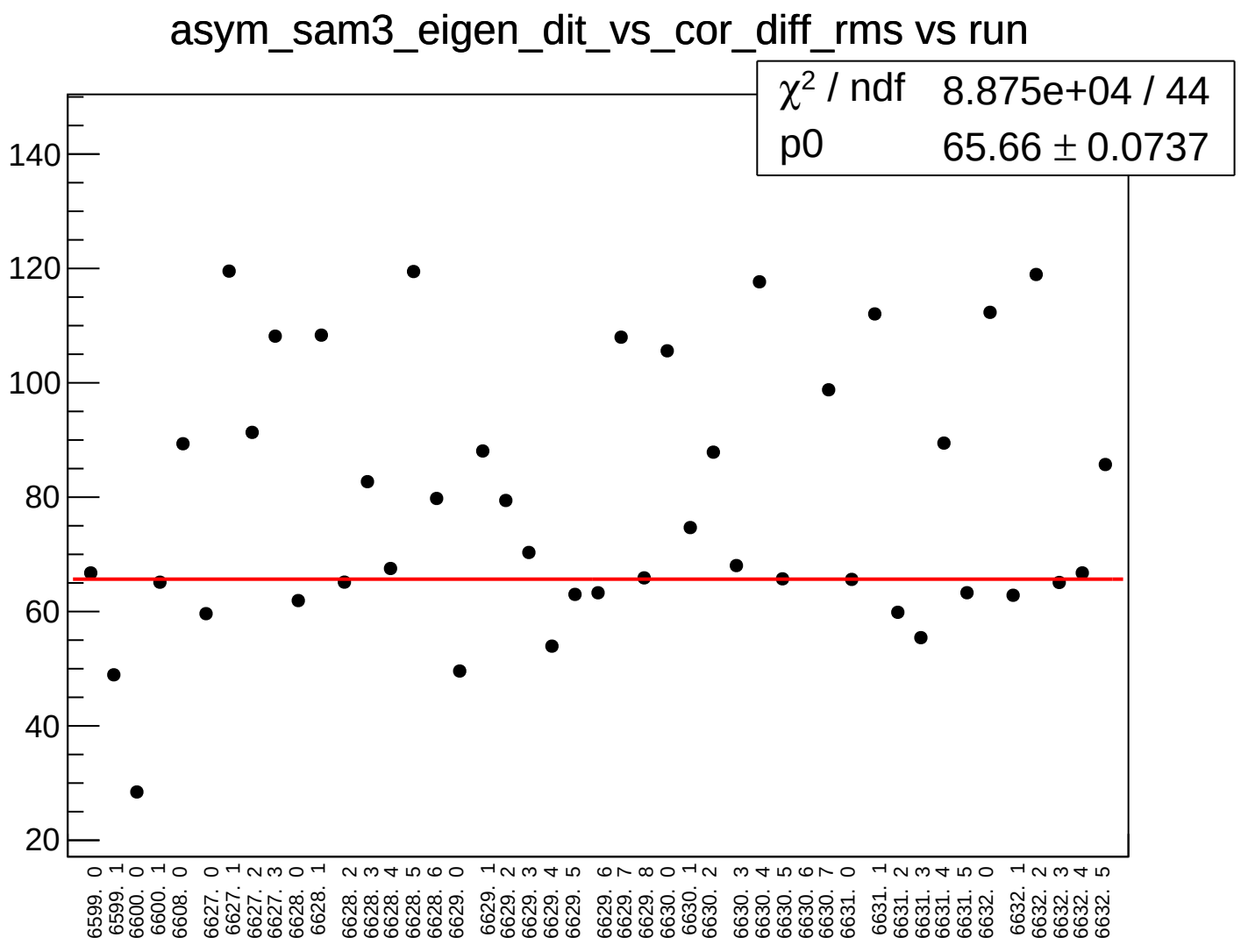

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.876e+04 / 44
p0 65.66 ± 0.0737
140
120
100
80
60
40
20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 63.79 / 44
p0 −1.39e−08 ± 4.212e−06
0.1
0.05
0
−0.05
−0.1
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −47.91
Std Dev 10.46
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.007698
Std Dev 1.191
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5903 / 44
p0 0.002788 ± 2.978e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 44.97 / 44
p0 −0.2745 ± 0.1042
pull
Entries 45
Mean −65.92
Std Dev 0


pull1D
Entries 45
Mean −0.01908
Std Dev 0.9995


asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.875e+04 / 44
p0 65.66 ± 0.0737
140
120
100
80
60
40
20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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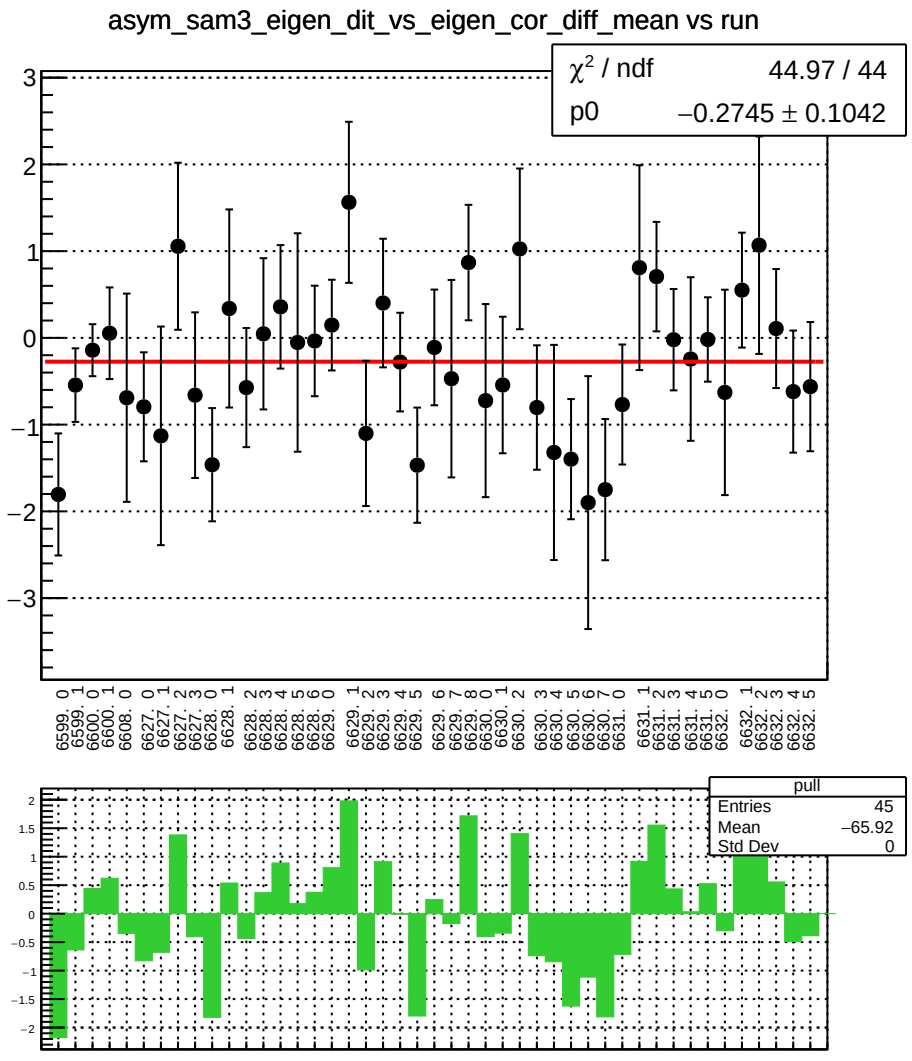
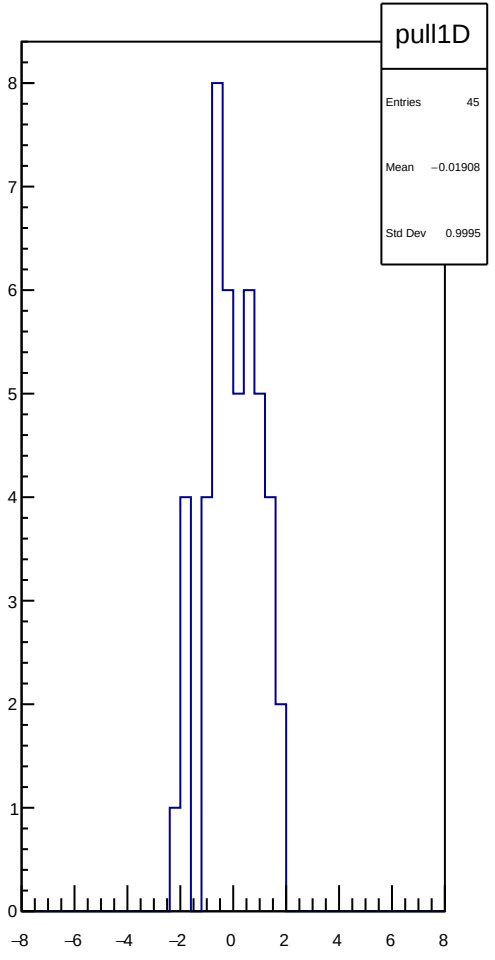
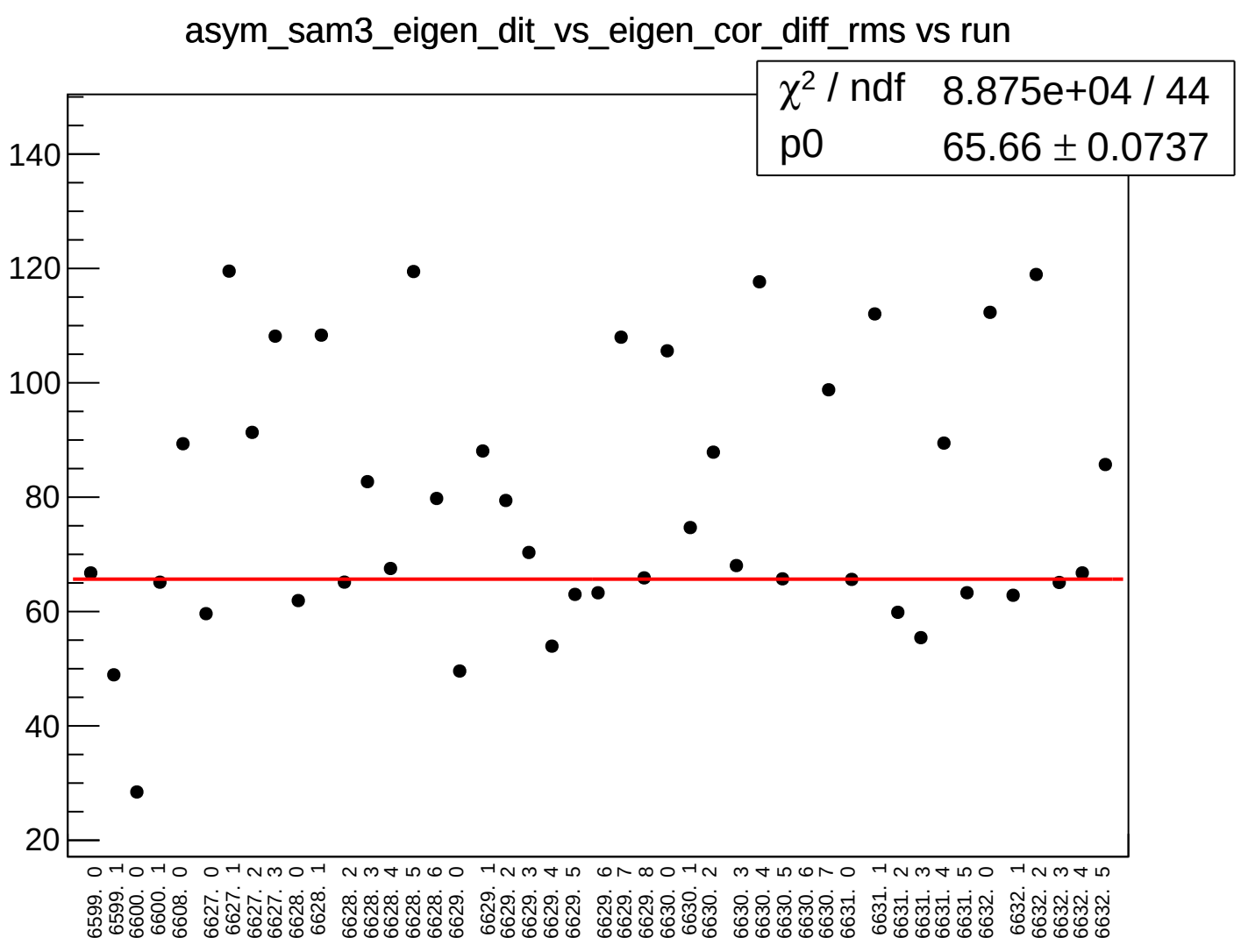
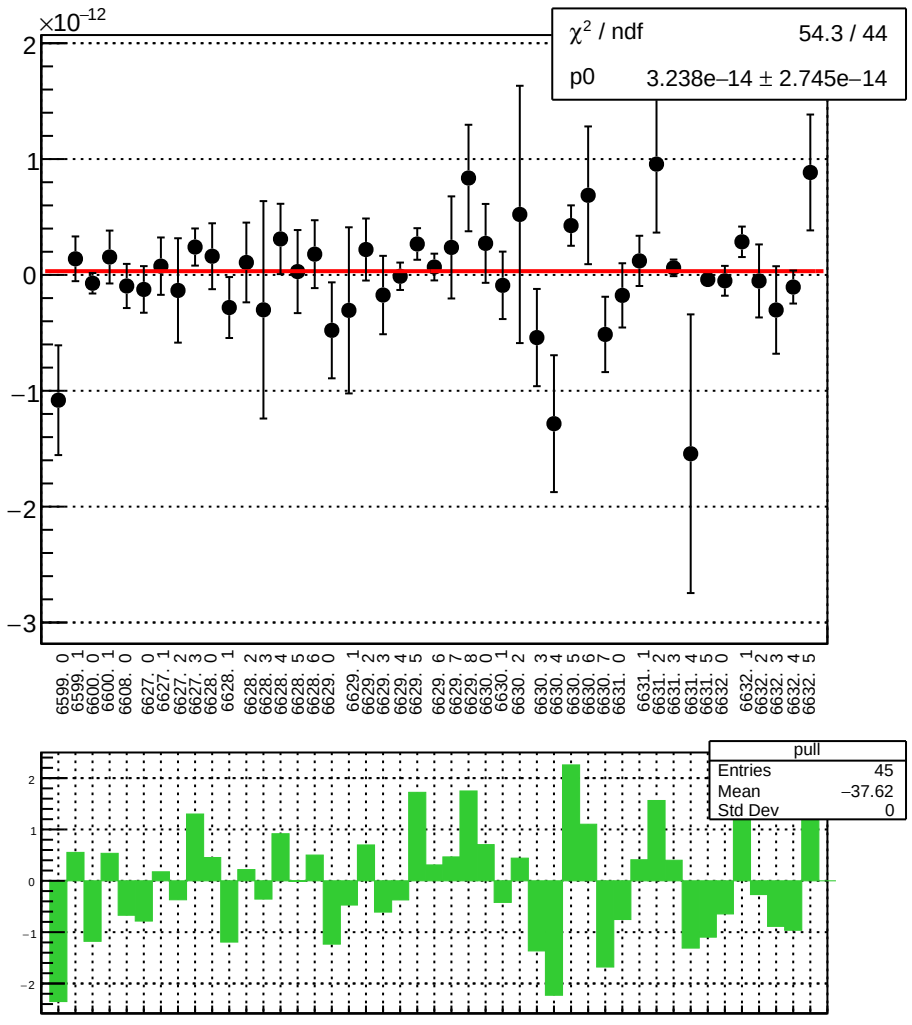
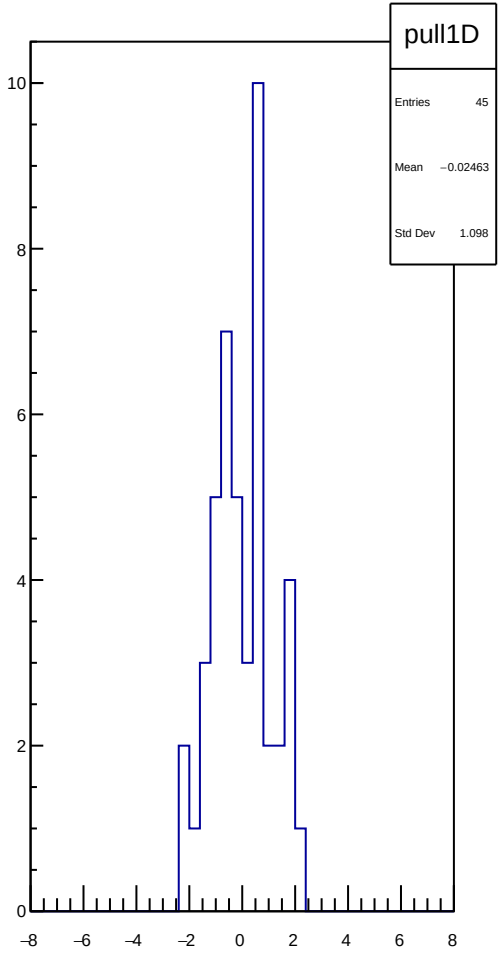
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

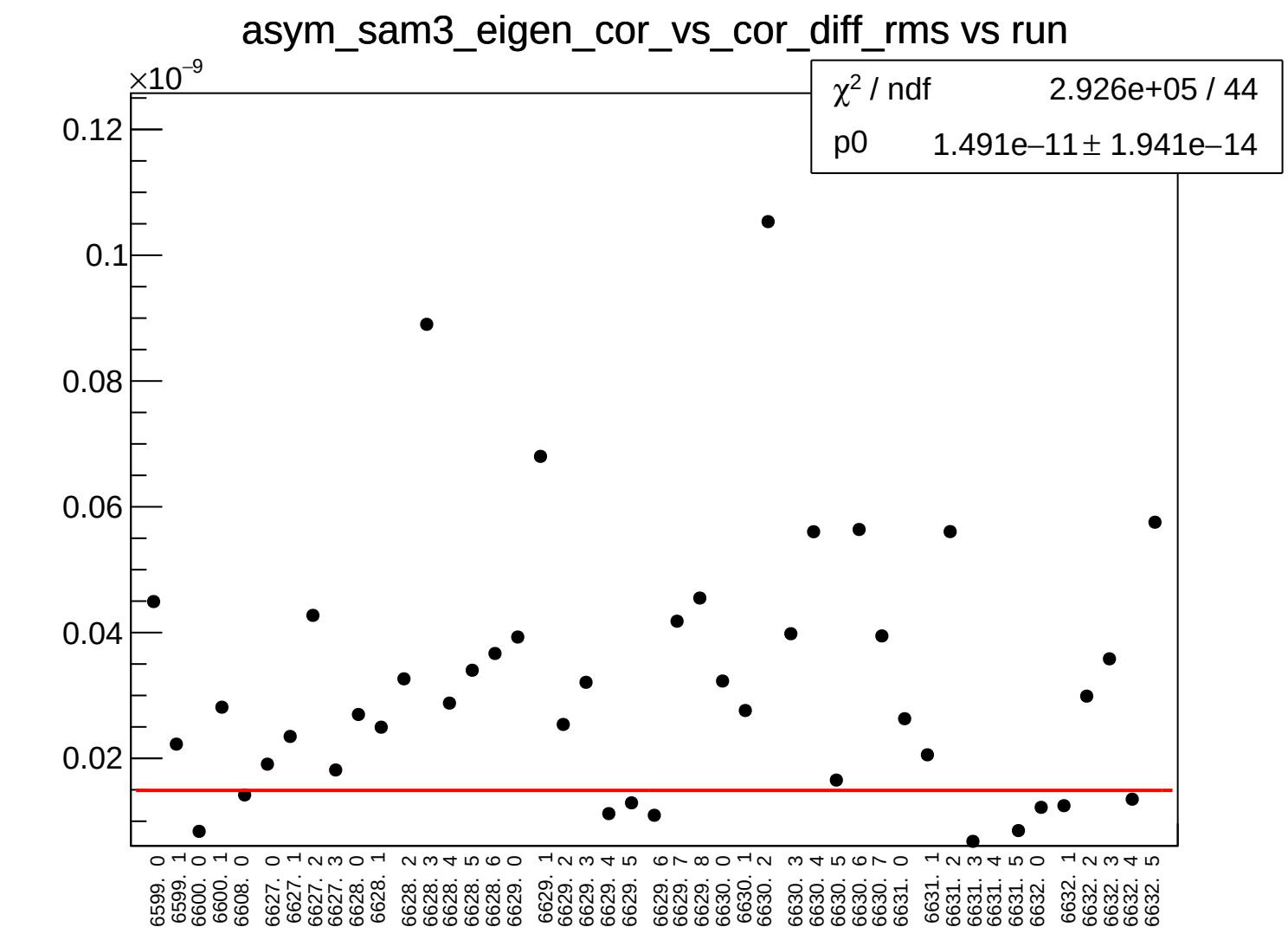

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 44.97 / 44
p0 −0.2745 ± 0.1042
pull
Entries 45
Mean −65.92
Std Dev 0

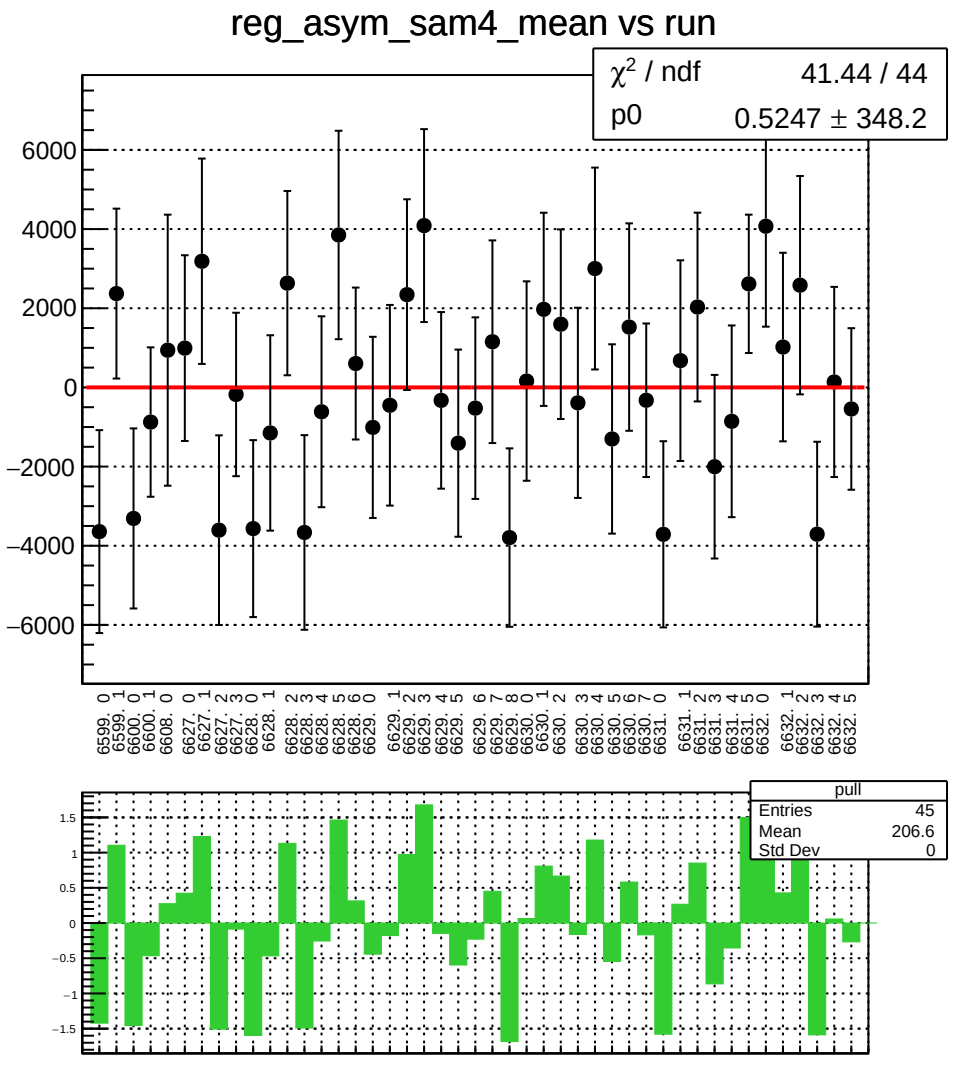

pull1D
Entries 45
Mean −0.01908
Std Dev 0.9995

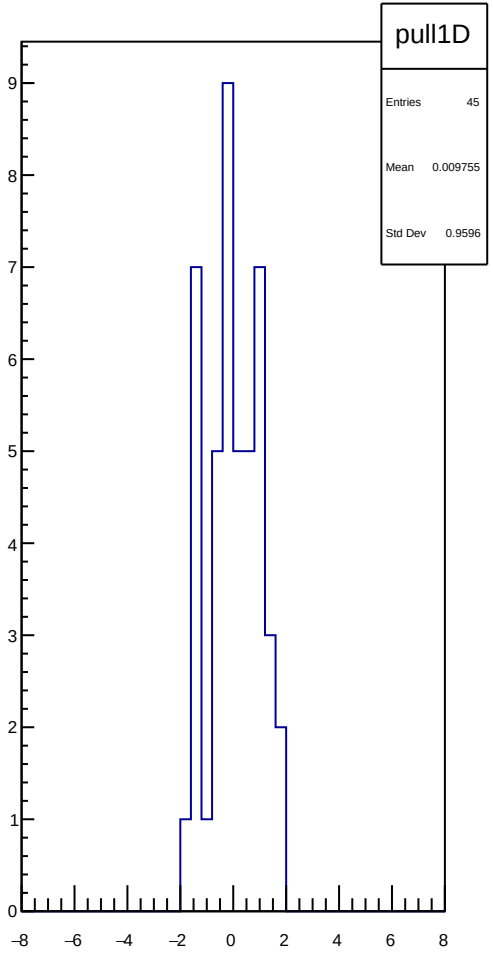

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.875e+04 / 44
p0 65.66 ± 0.0737
140
120
100
80
60
40
20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

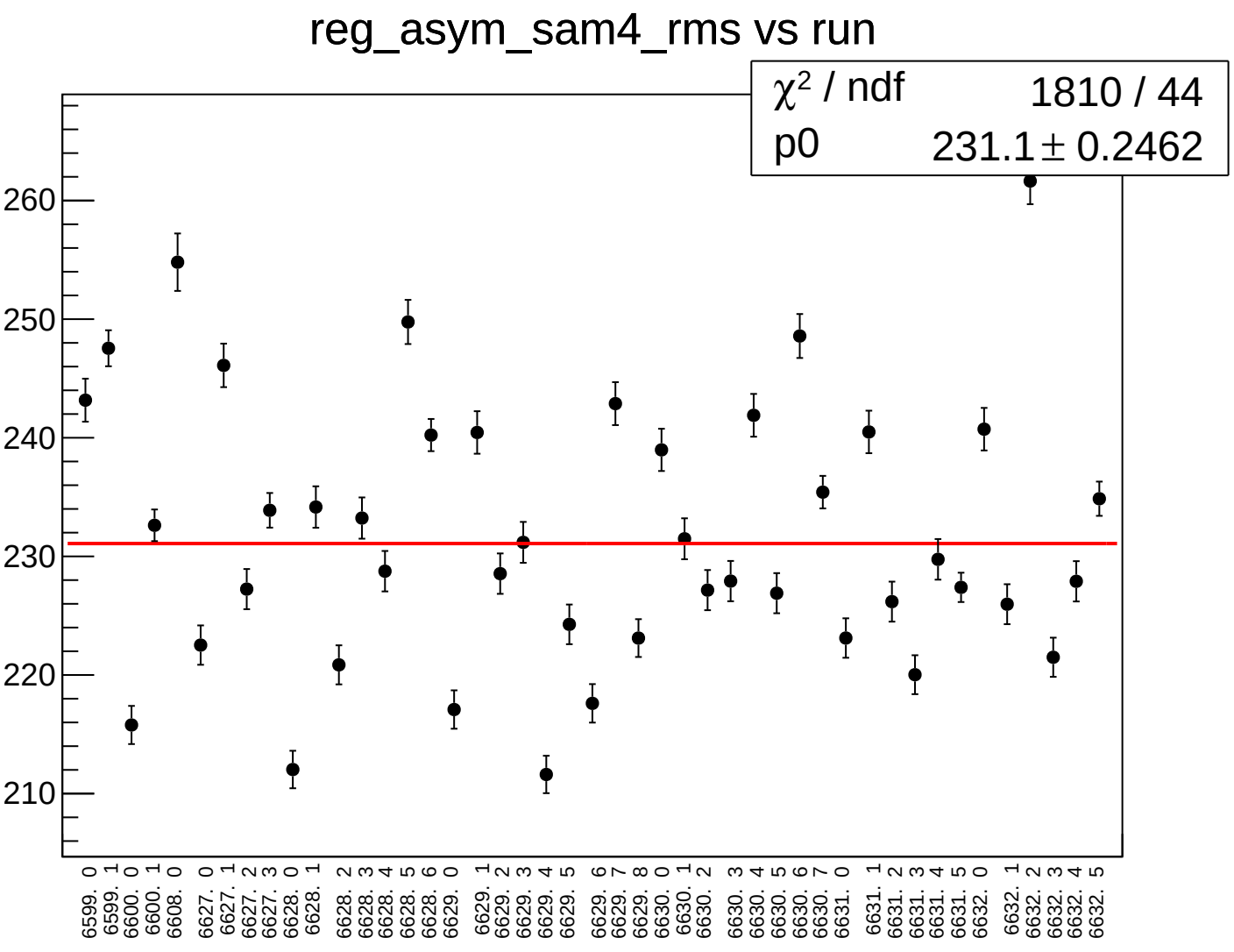

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 54.3 / 44
p0 3.238e−14 ± 2.745e−14
pull
Entries 45
Mean −37.62
Std Dev 0

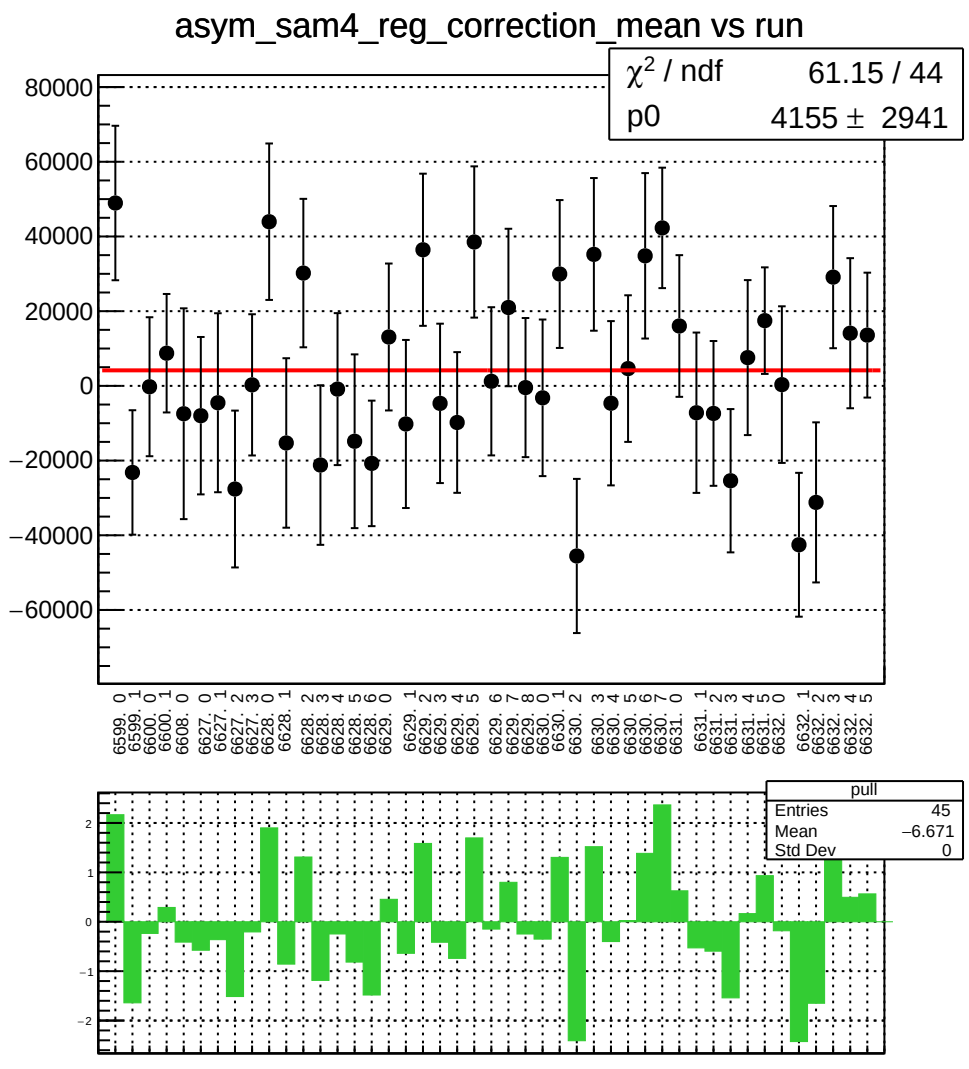

pull1D
Entries 45
Mean −0.02463
Std Dev 1.098

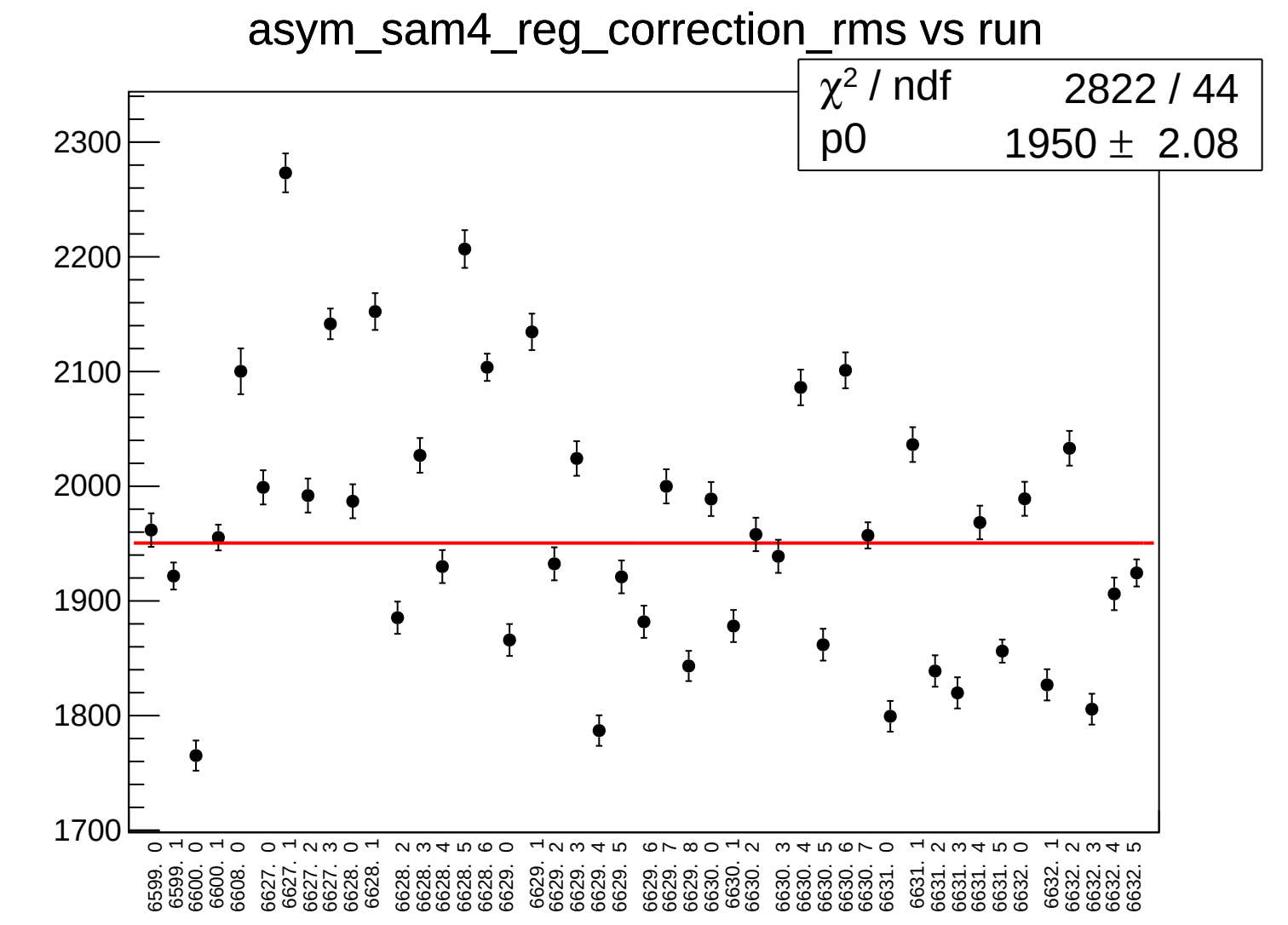

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.926e+05 / 44
p0 1.491e−11 ± 1.941e−14
0.12
0.1
0.08
0.06
0.04
0.02
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

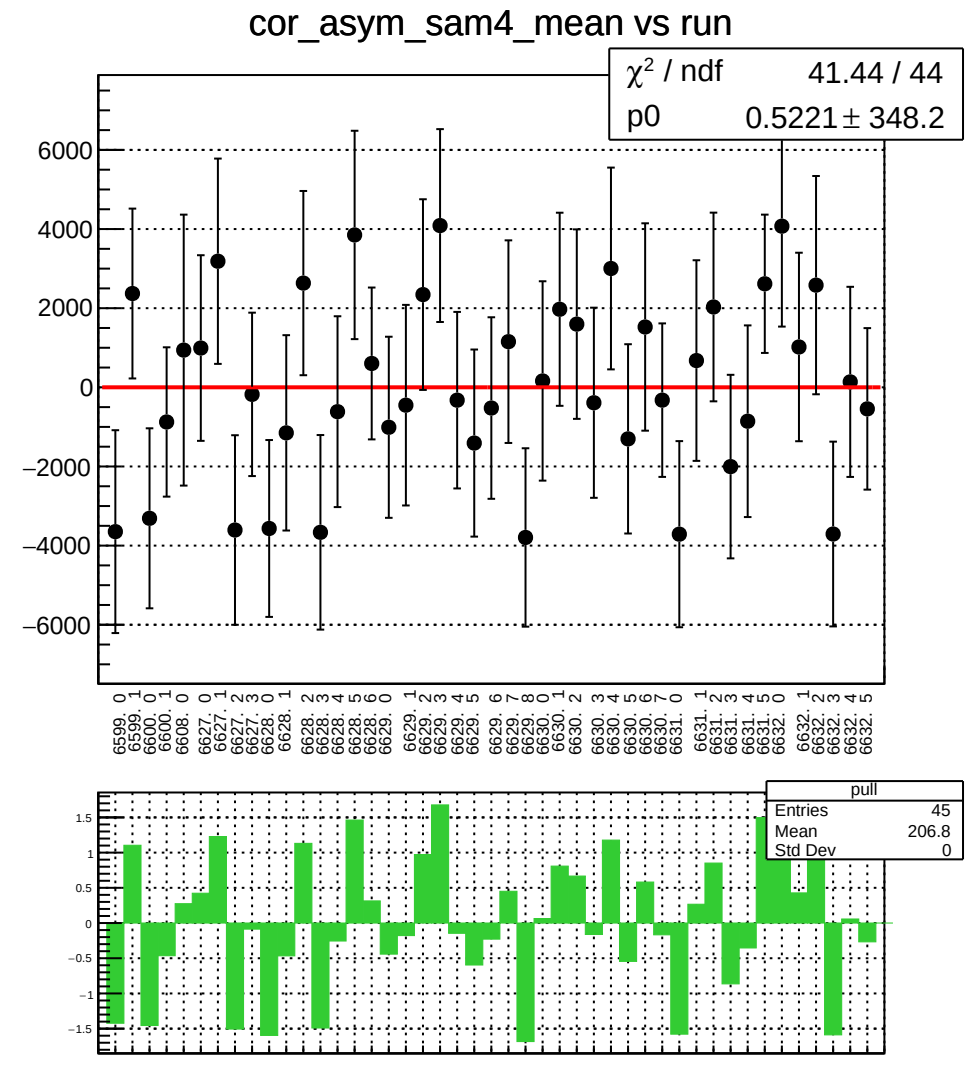

reg_asym_sam4_mean vs run
χ² / ndf 41.44 / 44
p0 0.5247 ± 348.2
6000
4000
2000
0
−2000
−4000
−6000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 206.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.009755
Std Dev 0.9596
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam4_rms vs run
χ² / ndf 1810 / 44
p0 231.1 ± 0.2462
260
250
240
230
220
210
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam4_reg_correction_mean vs run
χ² / ndf 61.15 / 44
p0 4155 ± 2941
80000
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −6.671
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.0202
Std Dev 1.166
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam4_reg_correction_rms vs run
χ² / ndf 2822 / 44
p0 1950 ± 2.08
2300
2200
2100
2000
1900
1800
1700
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_sam4_mean vs run
χ² / ndf 41.44 / 44
p0 0.5221 ± 348.2
6000
4000
2000
0
−2000
−4000
−6000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
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6630. 6
6630. 7
6631. 0
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6631. 2
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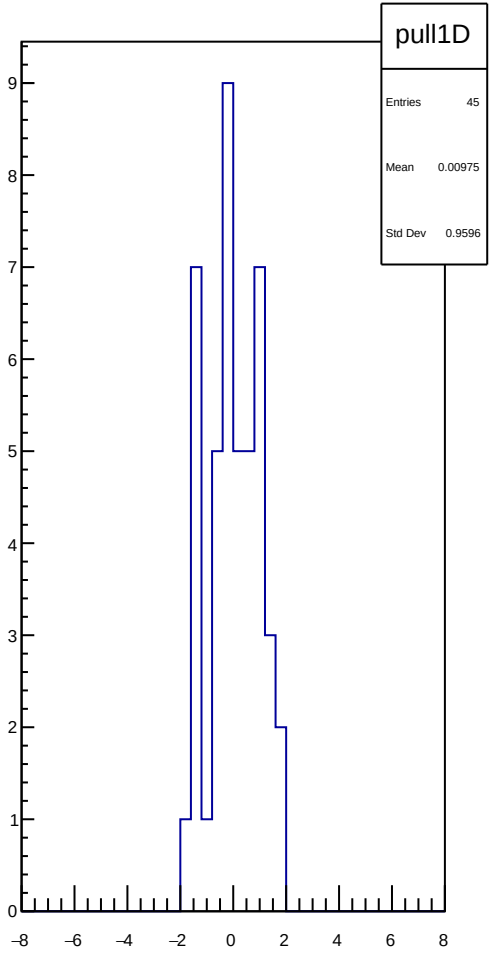
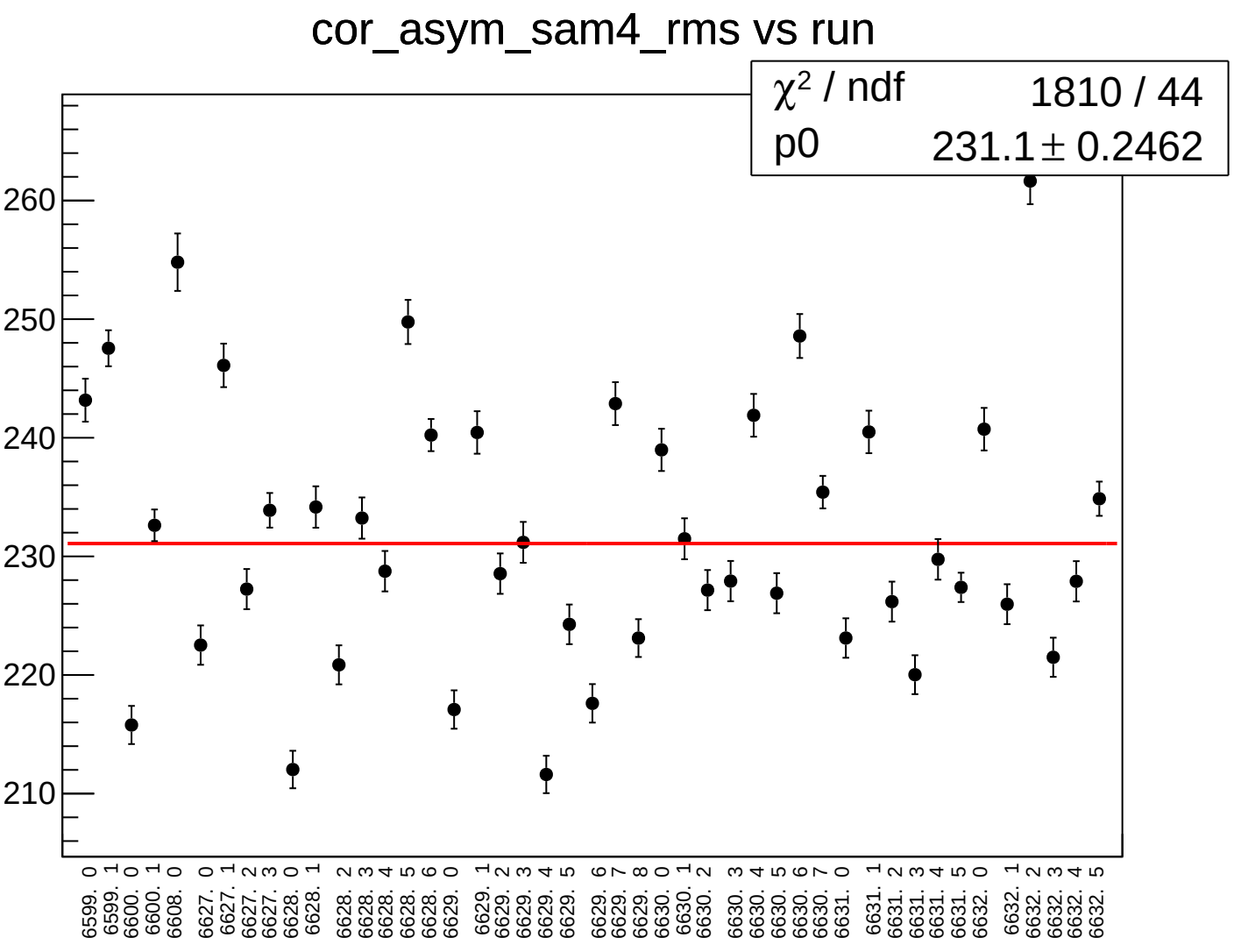
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 206.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.00975
Std Dev 0.9596
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam4_rms vs run
χ² / ndf 1810 / 44
p0 231.1 ± 0.2462
260
250
240
230
220
210
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
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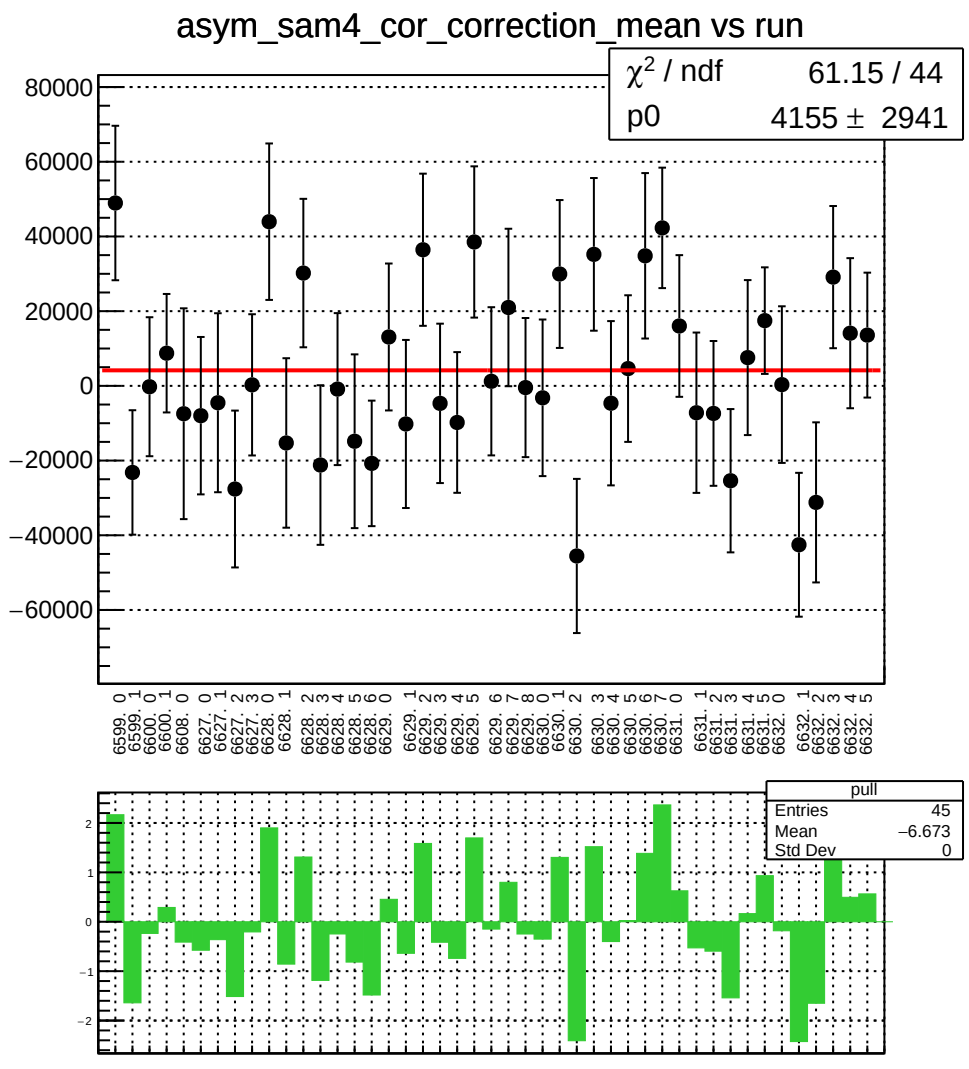
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam4_cor_correction_mean vs run
χ² / ndf 61.15 / 44
p0 4155 ± 2941
80000
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6629. 0
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6630. 0
6630. 1
6630. 2
6630. 3
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6630. 5
6630. 6
6630. 7
6631. 0
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −6.673
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.0202
Std Dev 1.166
8
7
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5
4
3
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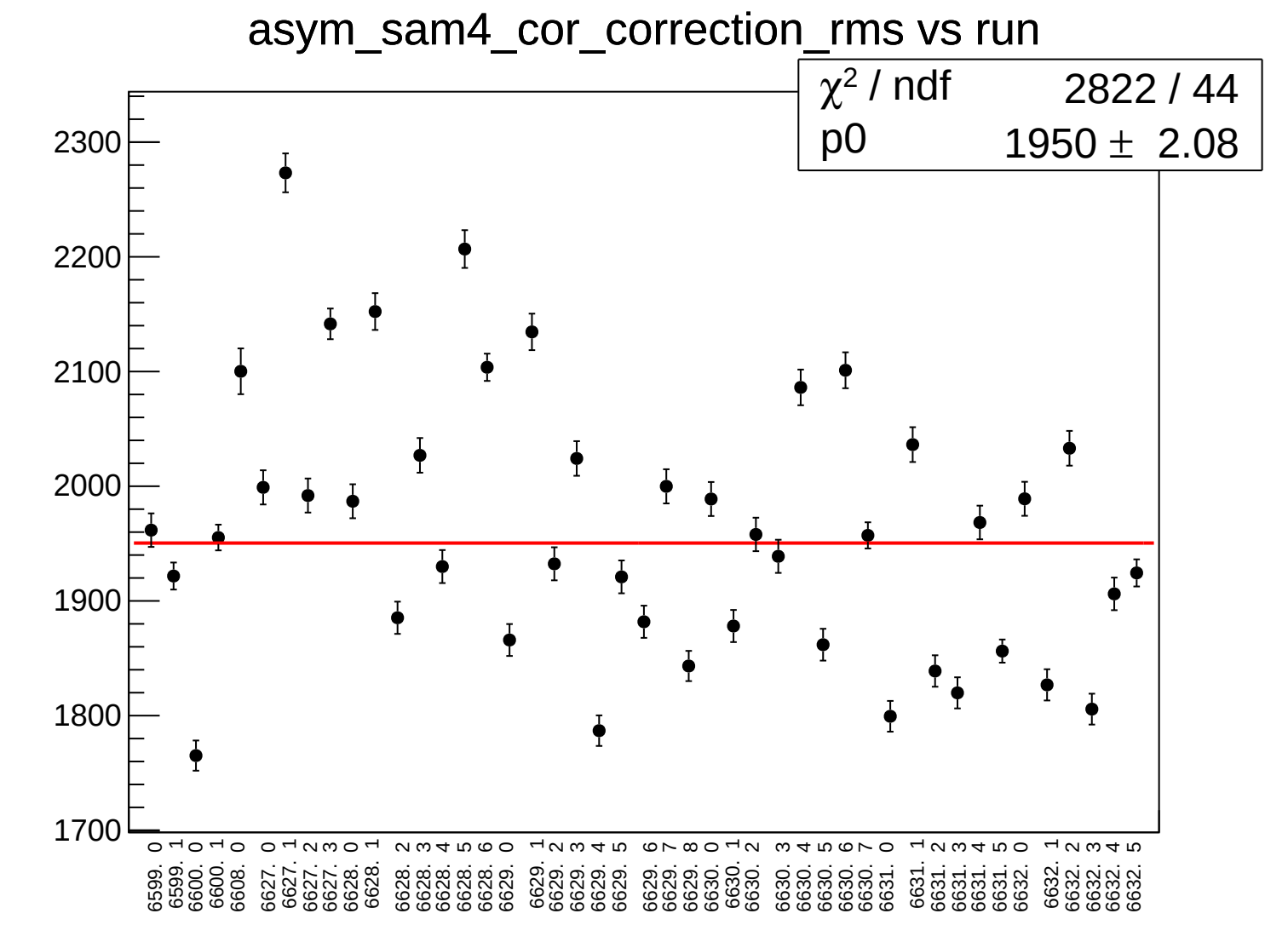
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam4_cor_correction_rms vs run
χ² / ndf 2822 / 44
p0 1950 ± 2.08
2300
2200
2100
2000
1900
1800
1700
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 5
6629. 6
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6630. 0
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6631. 0
6631. 1
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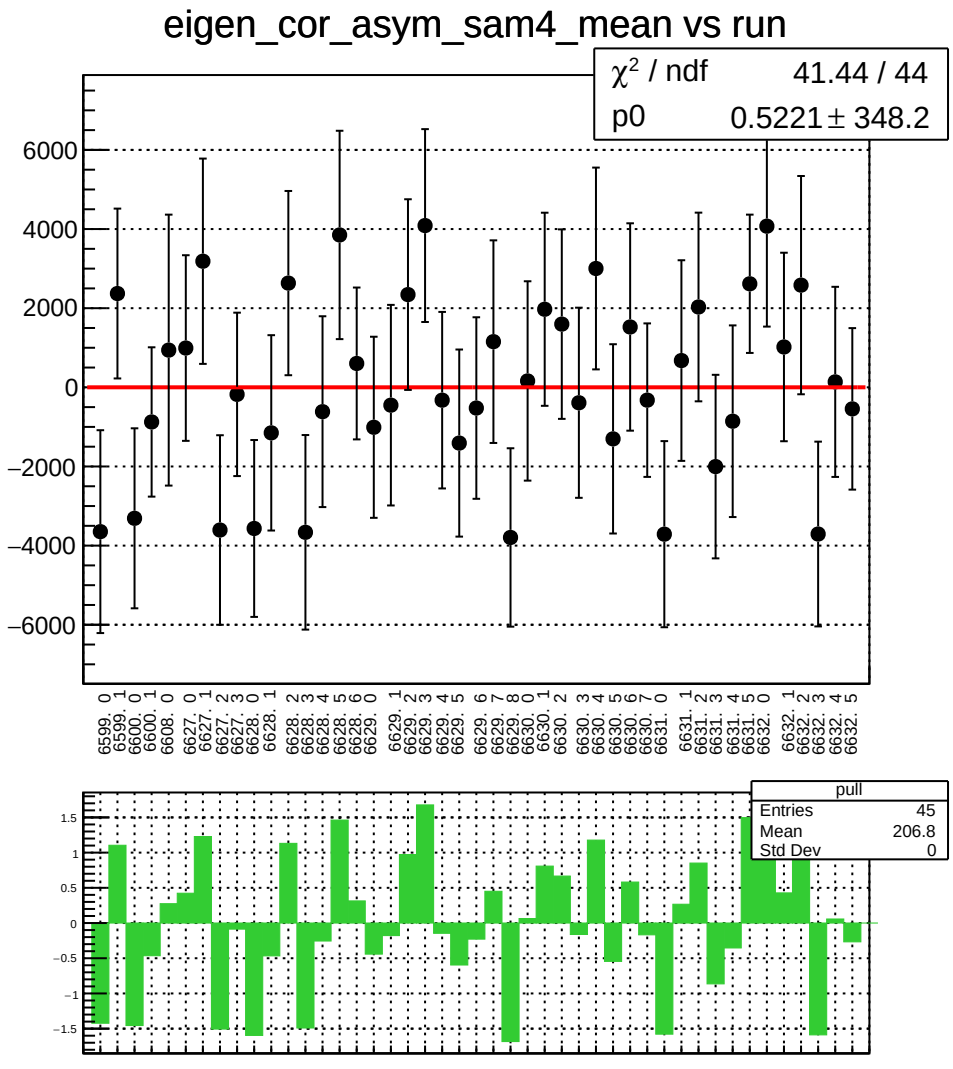
eigen_cor_asym_sam4_mean vs run
χ² / ndf 41.44 / 44
p0 0.5221 ± 348.2
6000
4000
2000
0
−2000
−4000
−6000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
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6629. 6
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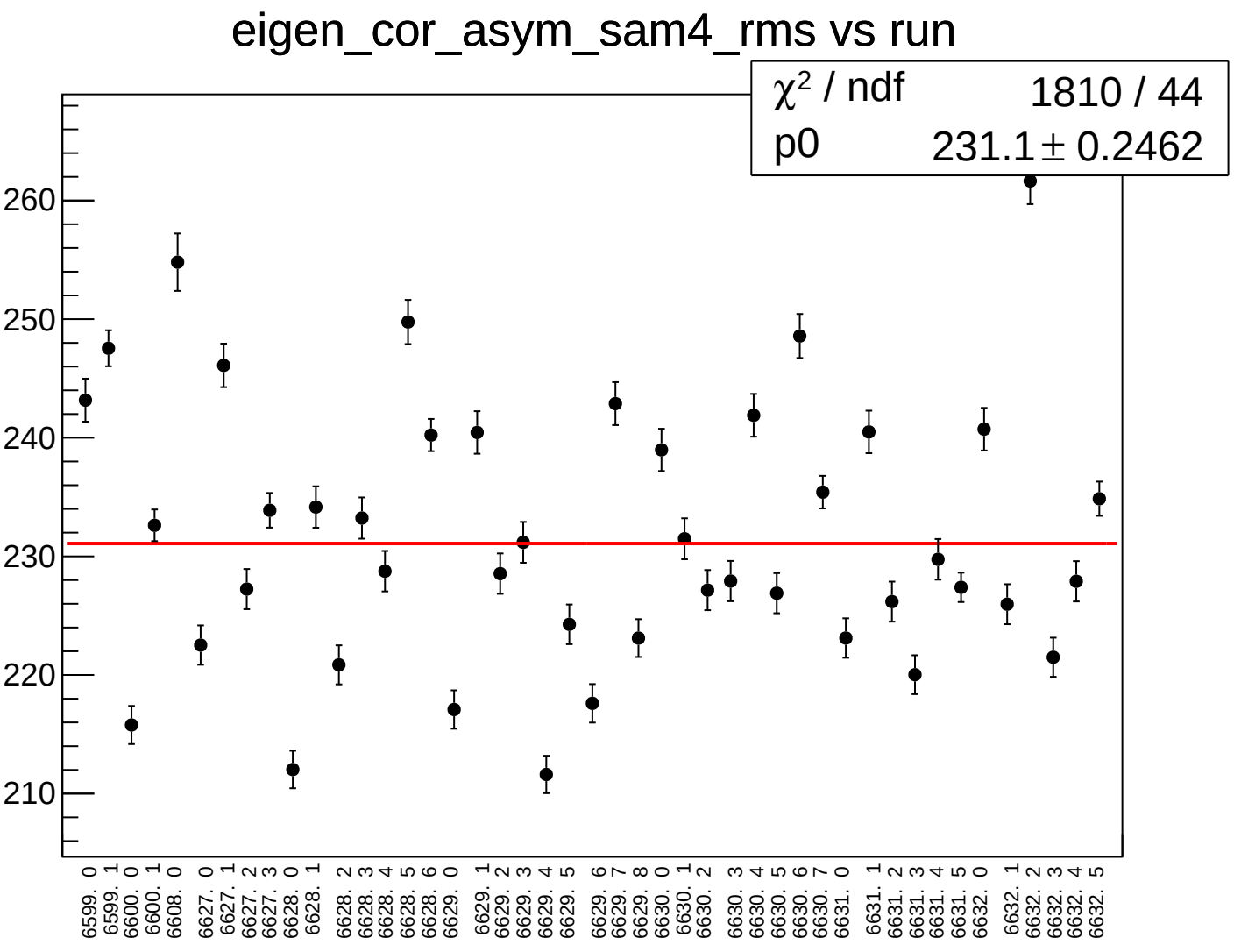
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 206.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.00975
Std Dev 0.9596
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam4_rms vs run
χ² / ndf 1810 / 44
p0 231.1 ± 0.2462
260
250
240
230
220
210
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
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6630. 2
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6632. 2
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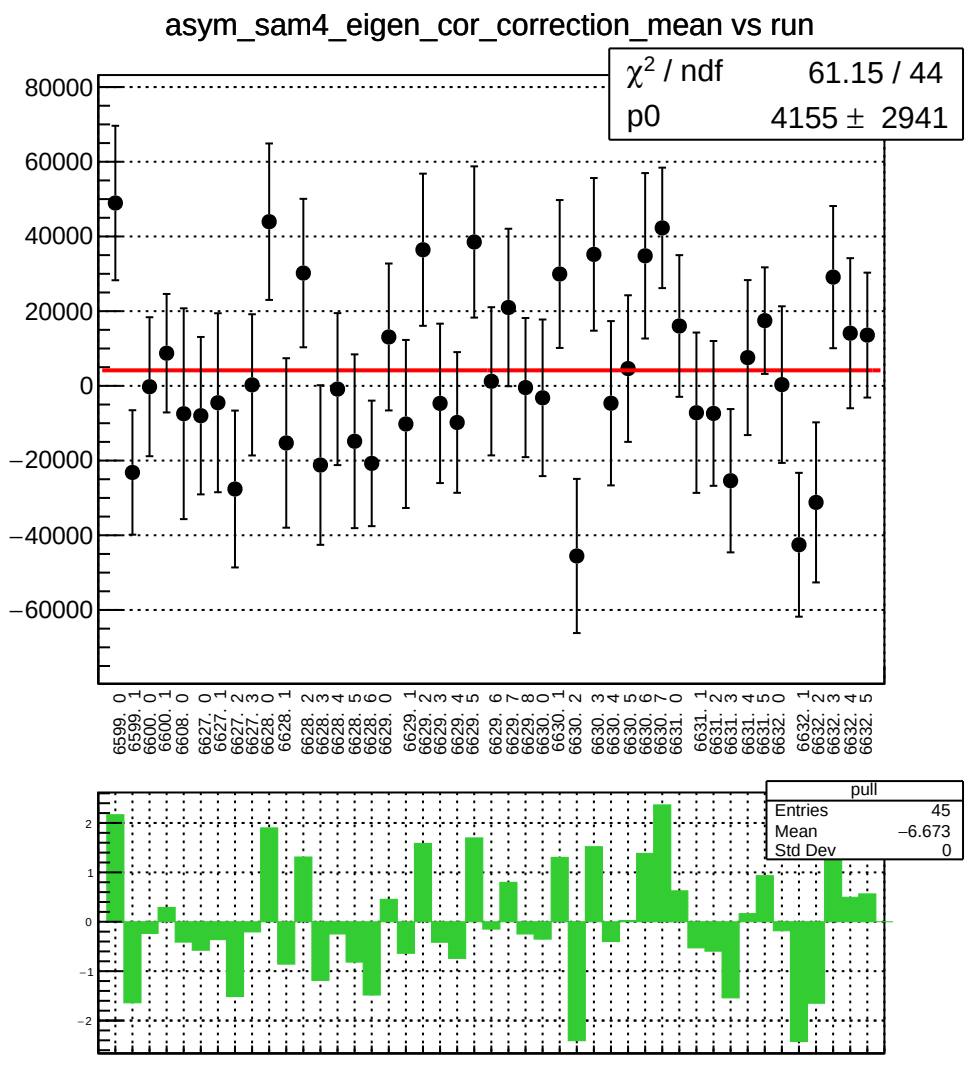
6632. 4
6632. 5


asym_sam4_eigen_cor_correction_mean vs run
χ² / ndf 61.15 / 44
p0 4155 ± 2941
80000
60000
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
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6629. 6
6629. 7
6629. 8
6630. 0
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6630. 2
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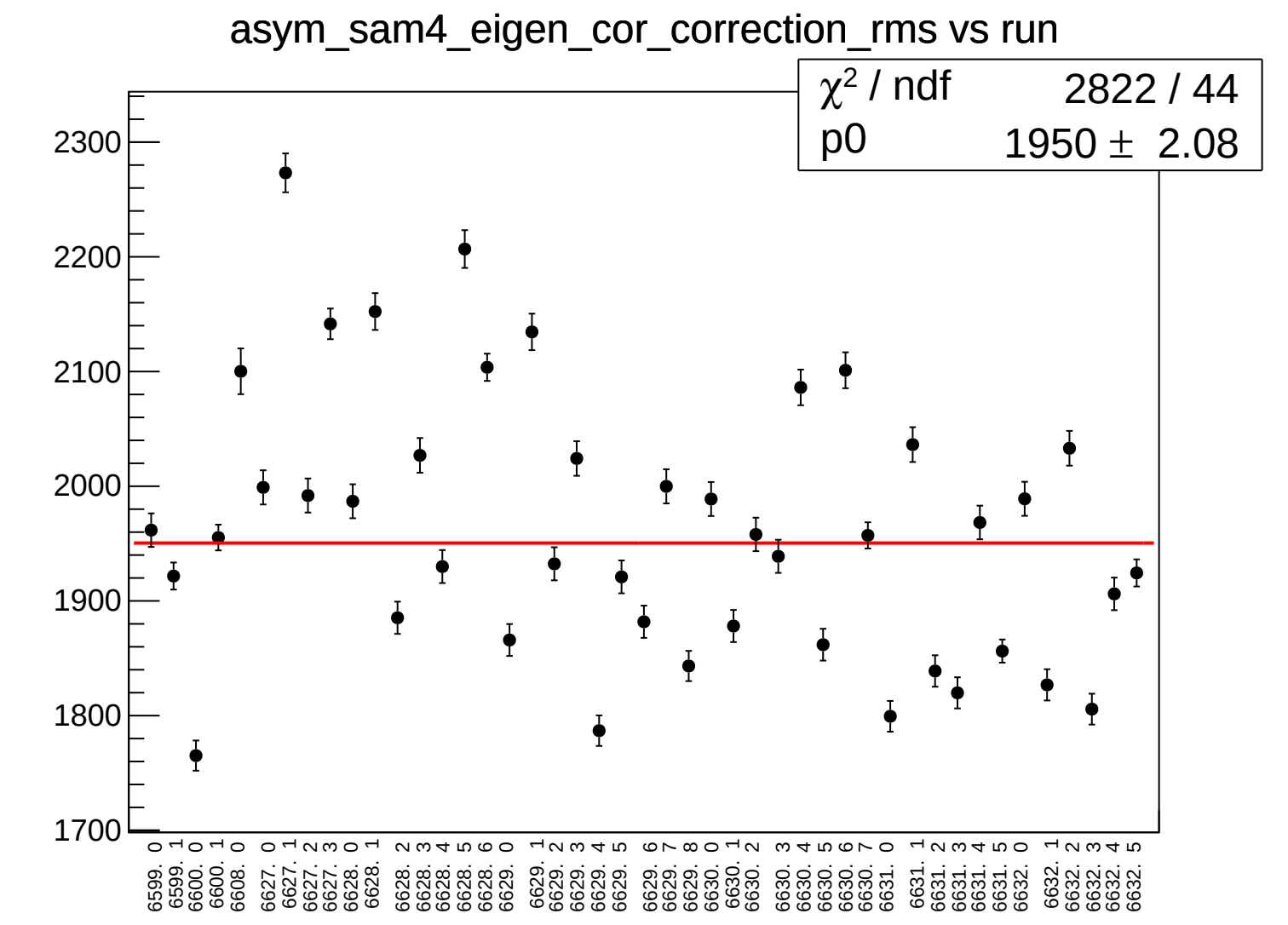
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −6.673
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.0202
Std Dev 1.166
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 2822 / 44
p0 1950 ± 2.08
2300
2200
2100
2000
1900
1800
1700
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 2
6627. 3
6628. 0
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6628. 2
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6629. 7
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6630. 0
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6630. 2
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6630. 4
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6630. 6
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6631. 0
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6631. 4
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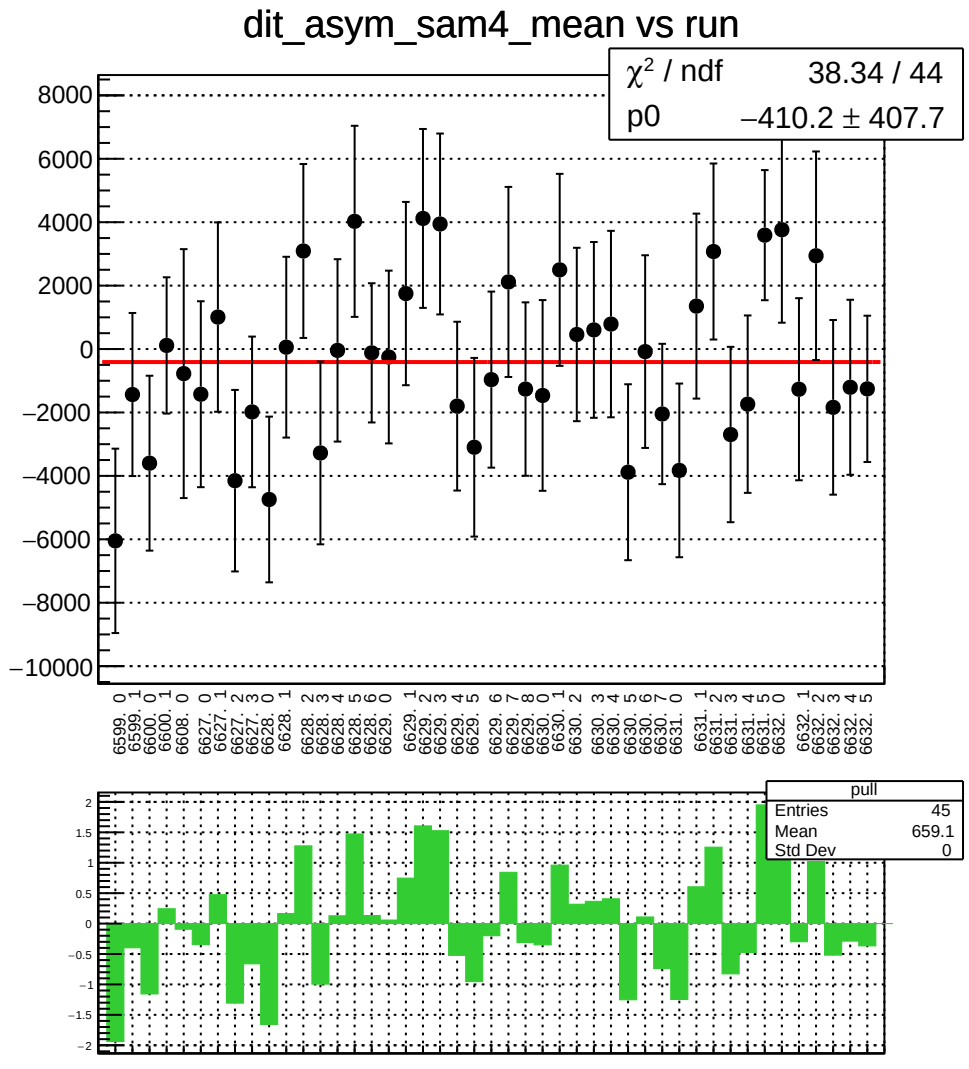
6632. 4
6632. 5


dit_asym_sam4_mean vs run
χ² / ndf 38.34 / 44
p0 −410.2 ± 407.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
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6629. 5
6629. 6
6629. 7
6629. 8
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6630. 1
6630. 2
6630. 3
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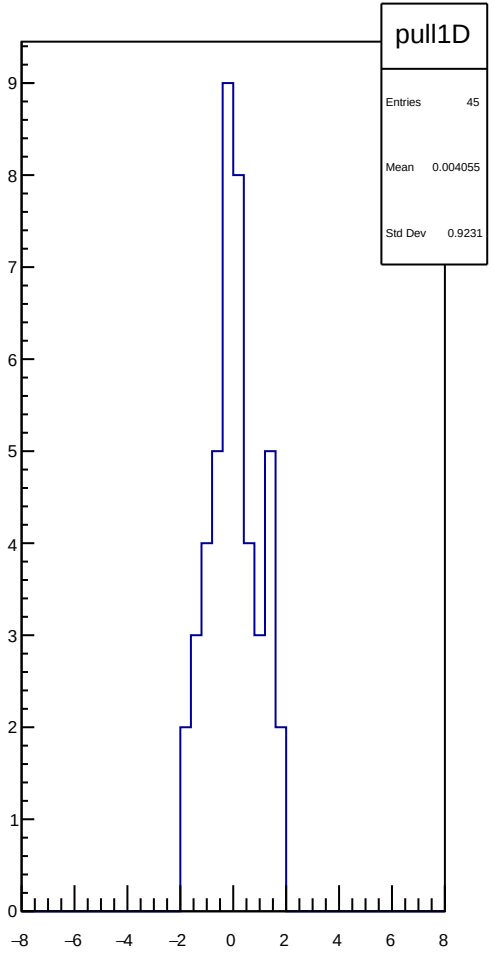
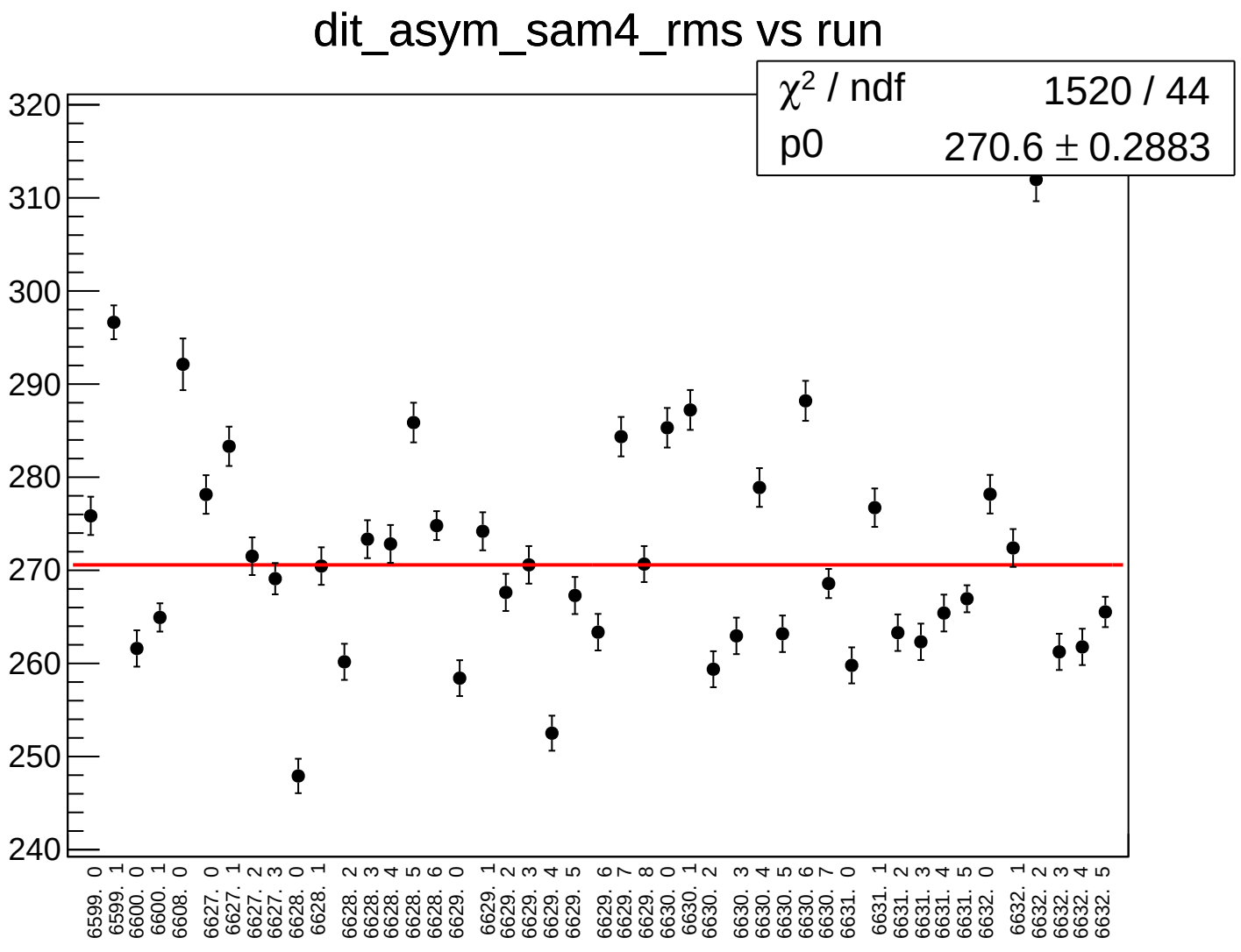
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 659.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.004055
Std Dev 0.9231
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam4_rms vs run
χ² / ndf 1520 / 44
p0 270.6 ± 0.2883
320
310
300
290
280
270
260
250
240
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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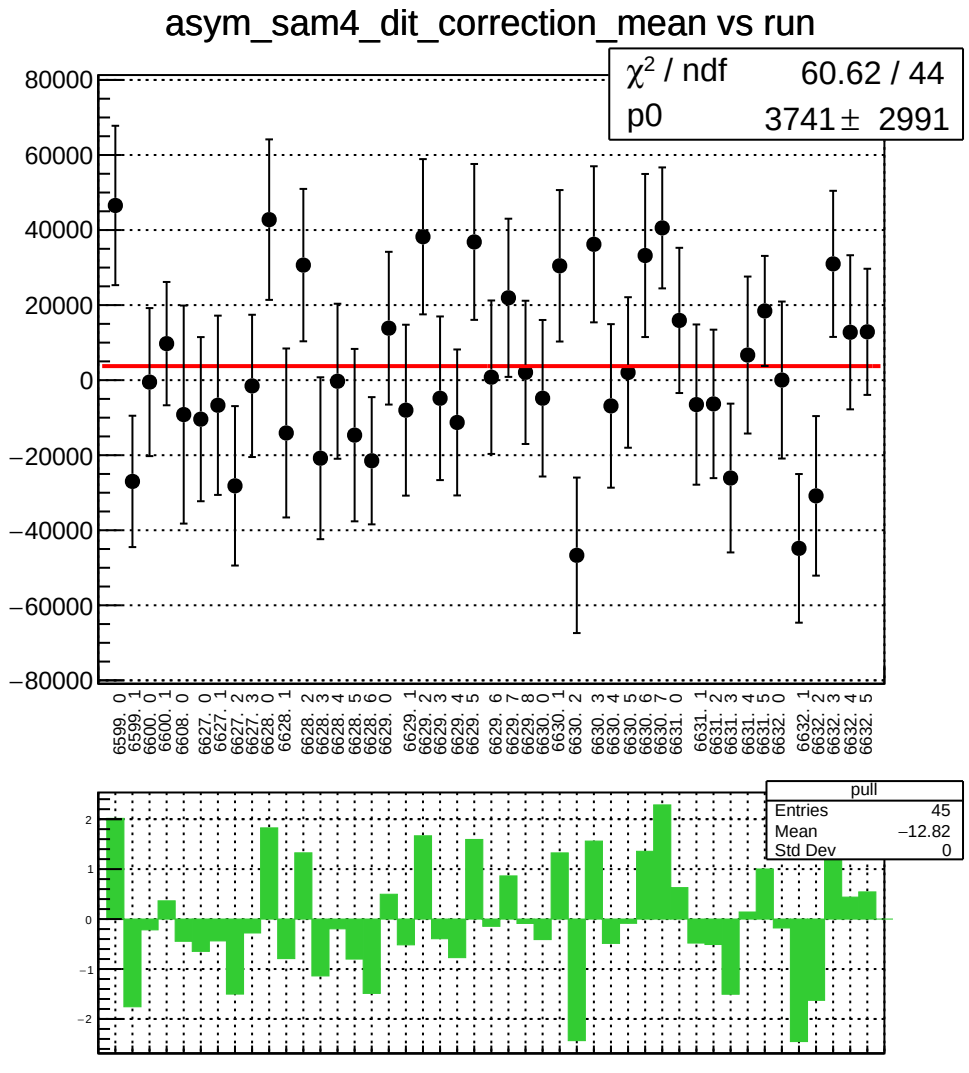
6632. 5


asym_sam4_dit_correction_mean vs run
χ² / ndf 60.62 / 44
p0 3741 ± 2991
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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6630. 0
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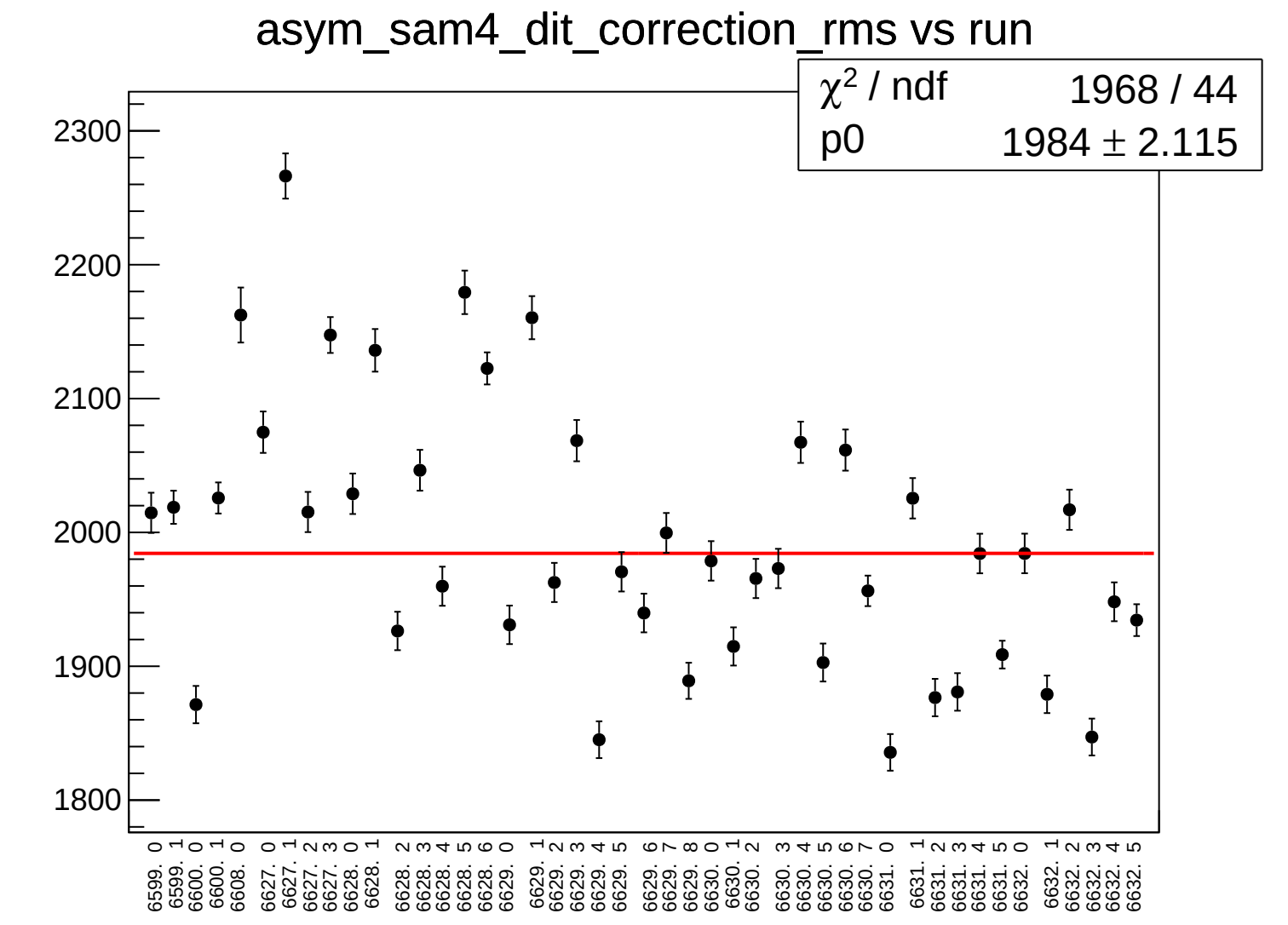
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −12.82
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02087
Std Dev 1.16
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam4_dit_correction_rms vs run
χ² / ndf 1968 / 44
p0 1984 ± 2.115
2300
2200
2100
2000
1900
1800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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6631. 1
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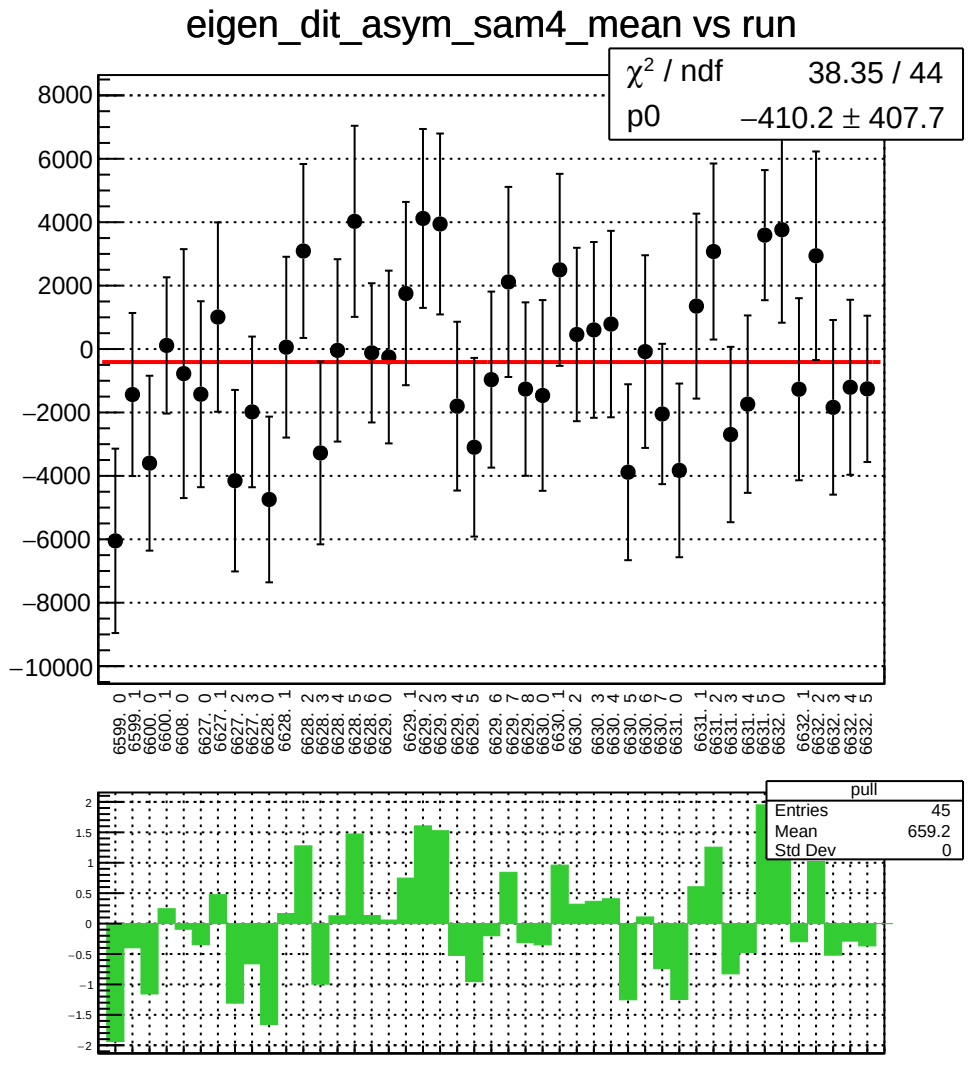
6632. 4
6632. 5


eigen_dit_asym_sam4_mean vs run
χ² / ndf 38.35 / 44
p0 −410.2 ± 407.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
6628. 3
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6629. 7
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6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 659.2
Std Dev 0
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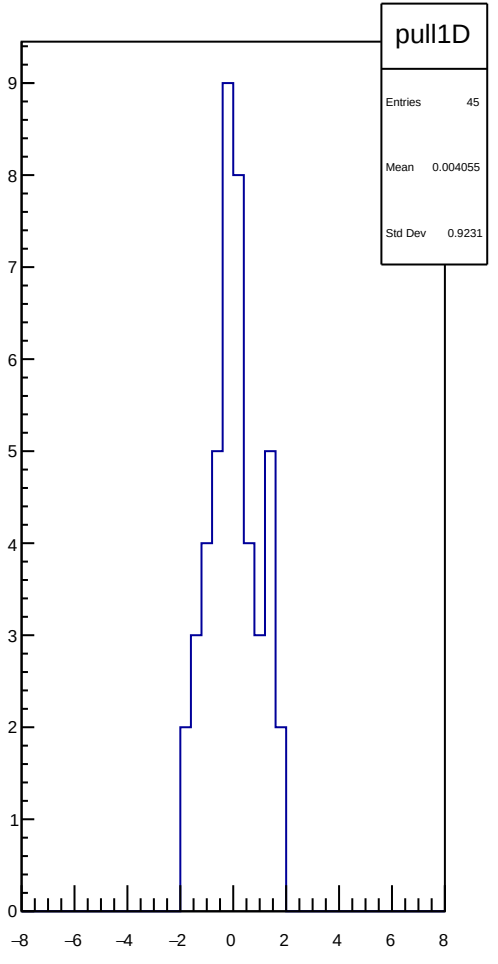
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.004055
Std Dev 0.9231
9
8
7
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5
4
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2
1
0
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−4
−2
0
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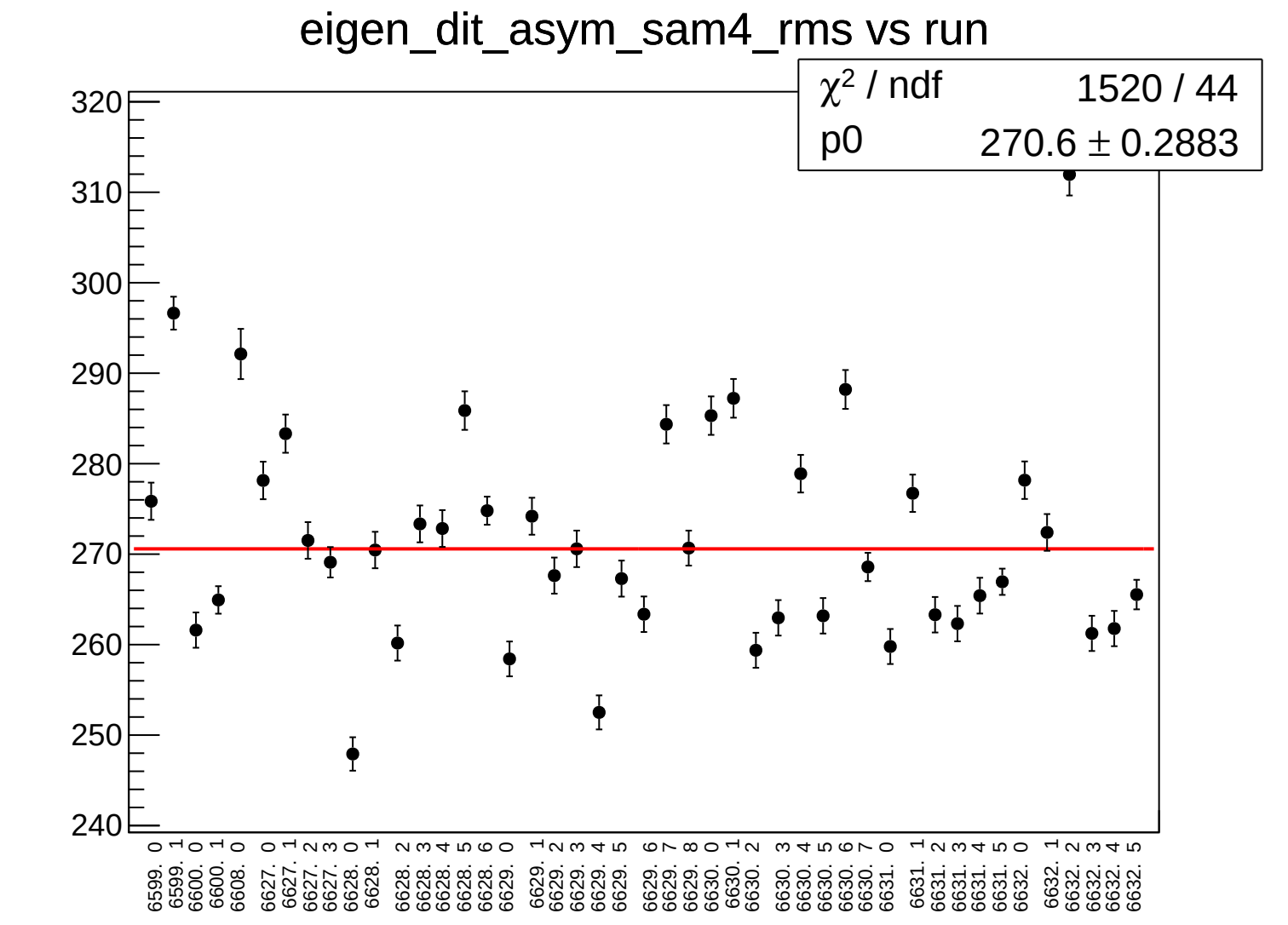
4
6
8


eigen_dit_asym_sam4_rms vs run
χ² / ndf 1520 / 44
p0 270.6 ± 0.2883
320
310
300
290
280
270
260
250
240
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
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6628. 6
6629. 0
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6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
6631. 5
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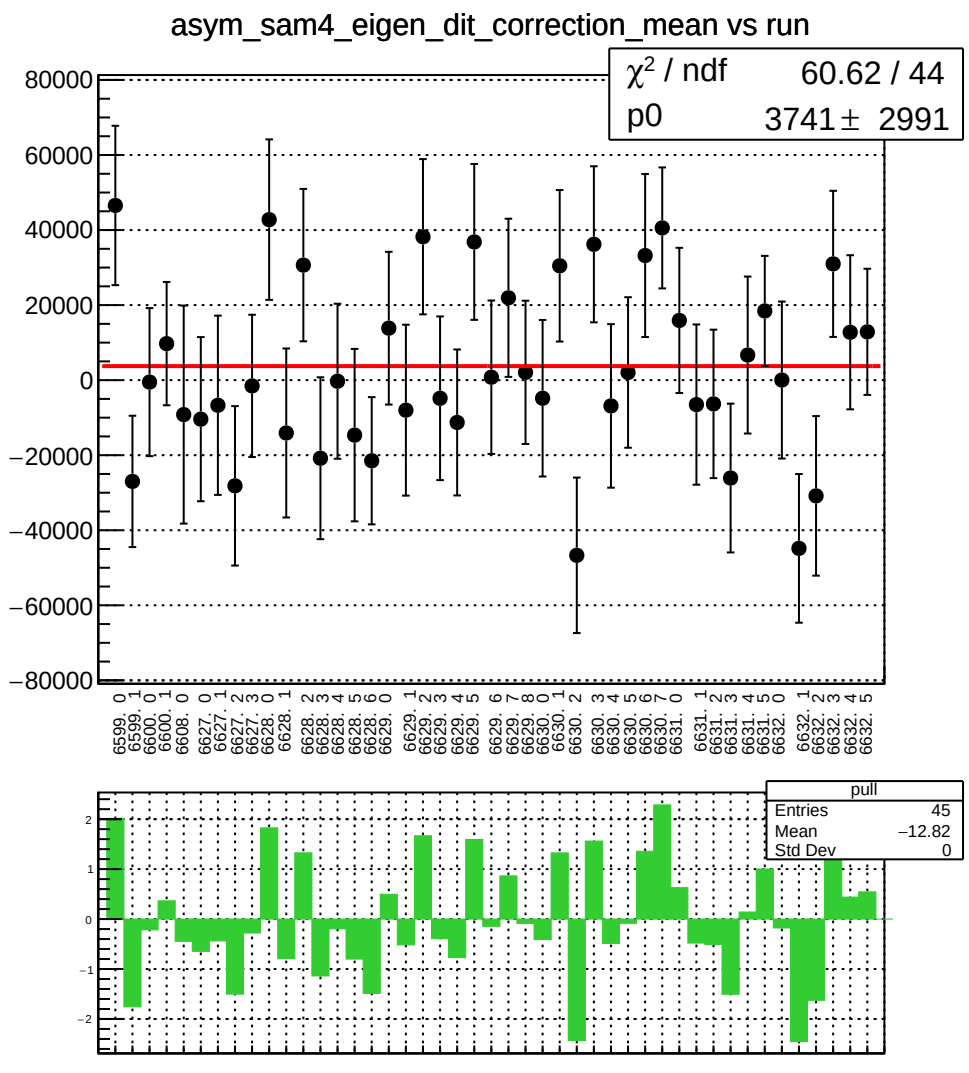
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam4_eigen_dit_correction_mean vs run
χ² / ndf 60.62 / 44
p0 3741 ± 2991
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6628. 0
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6628. 2
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6628. 5
6628. 6
6629. 0
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6629. 4
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
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6630. 4
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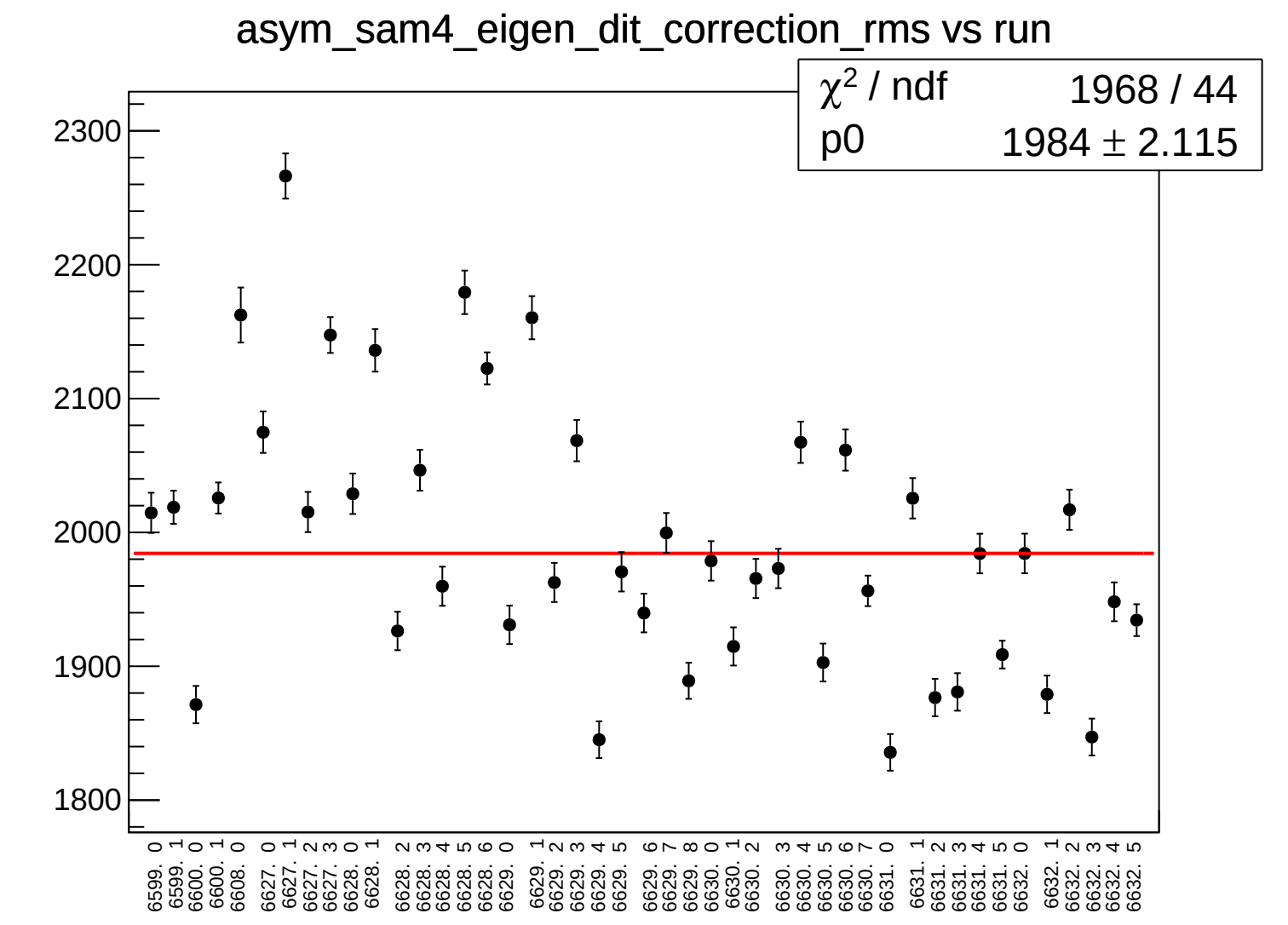
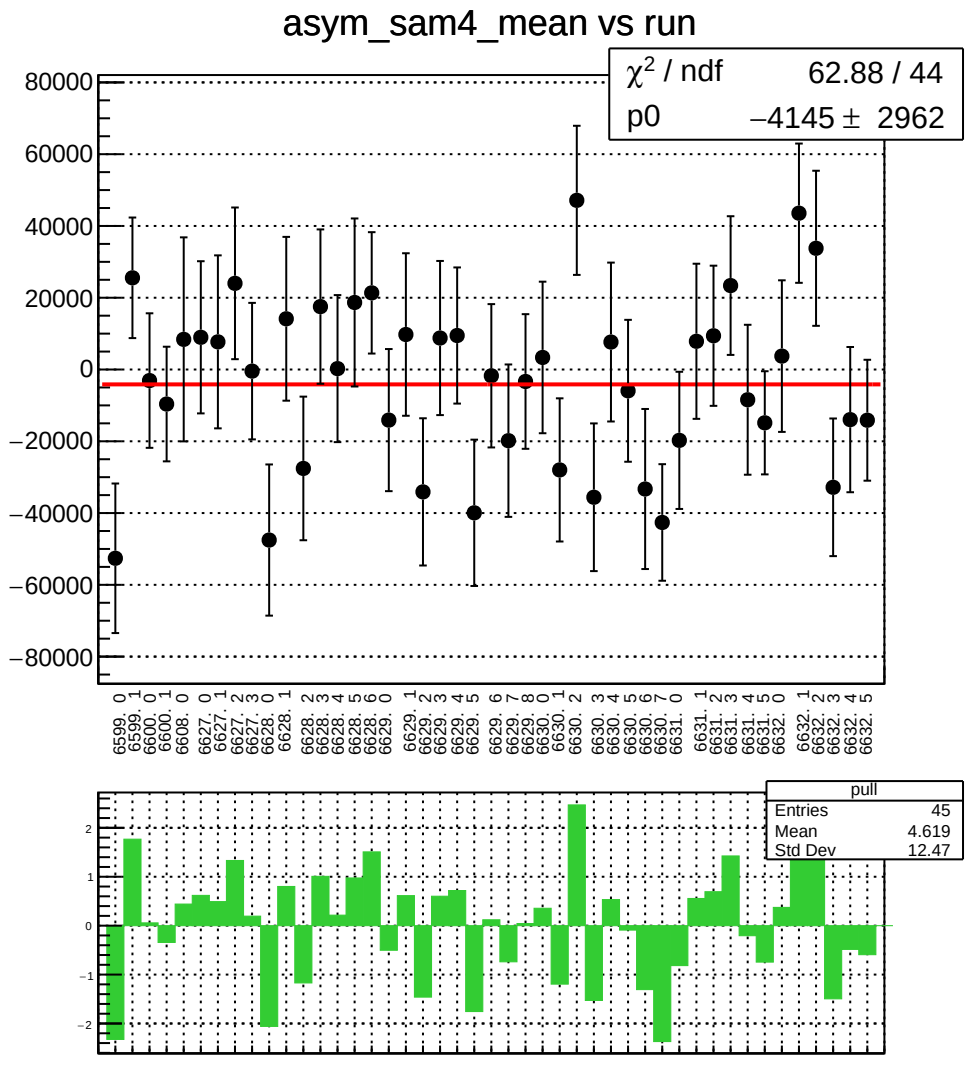
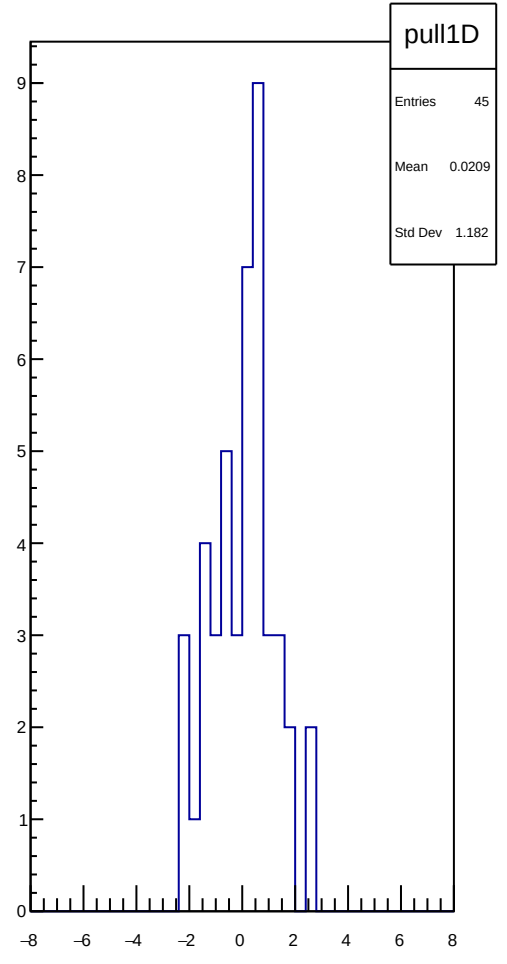
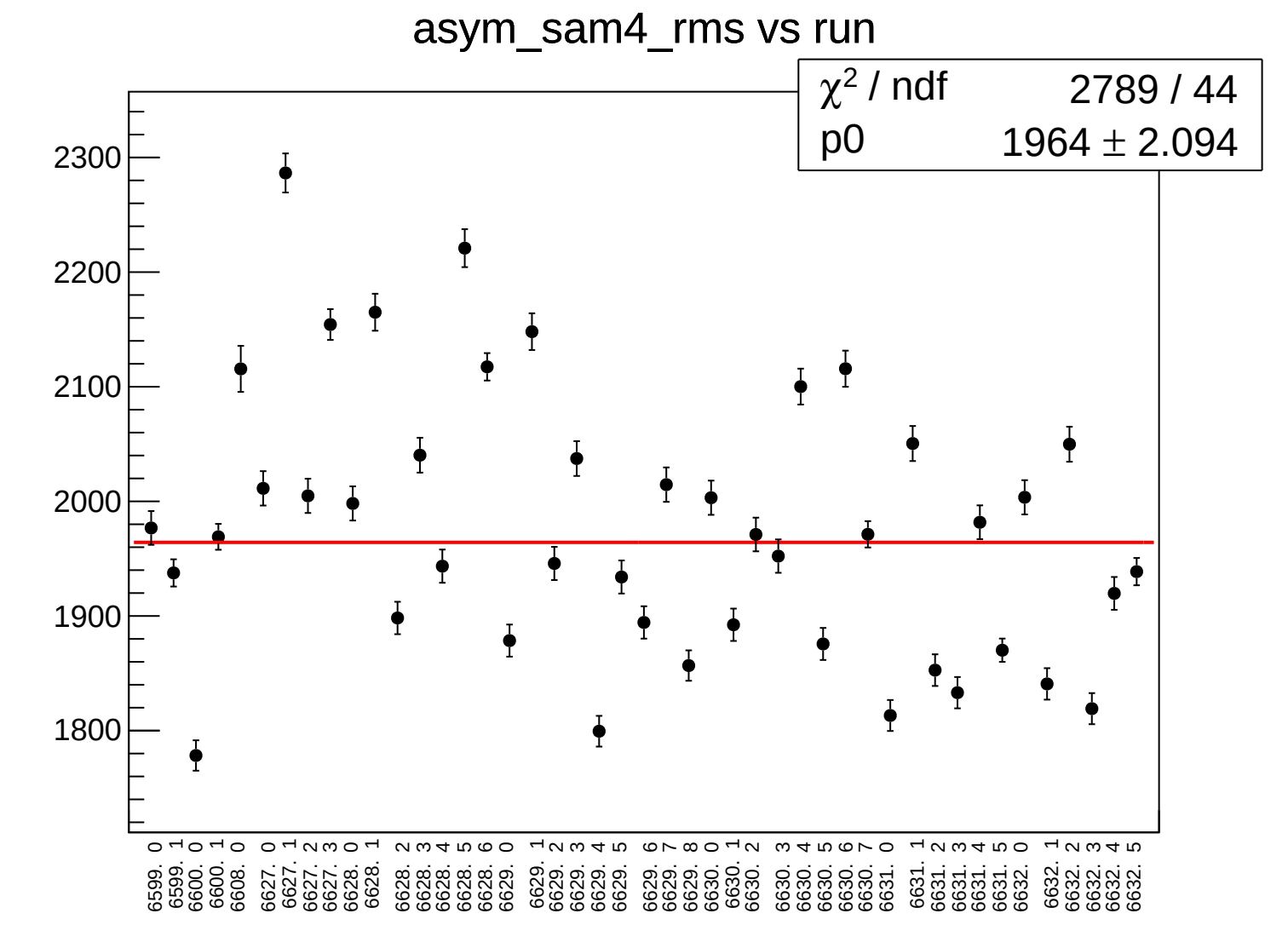
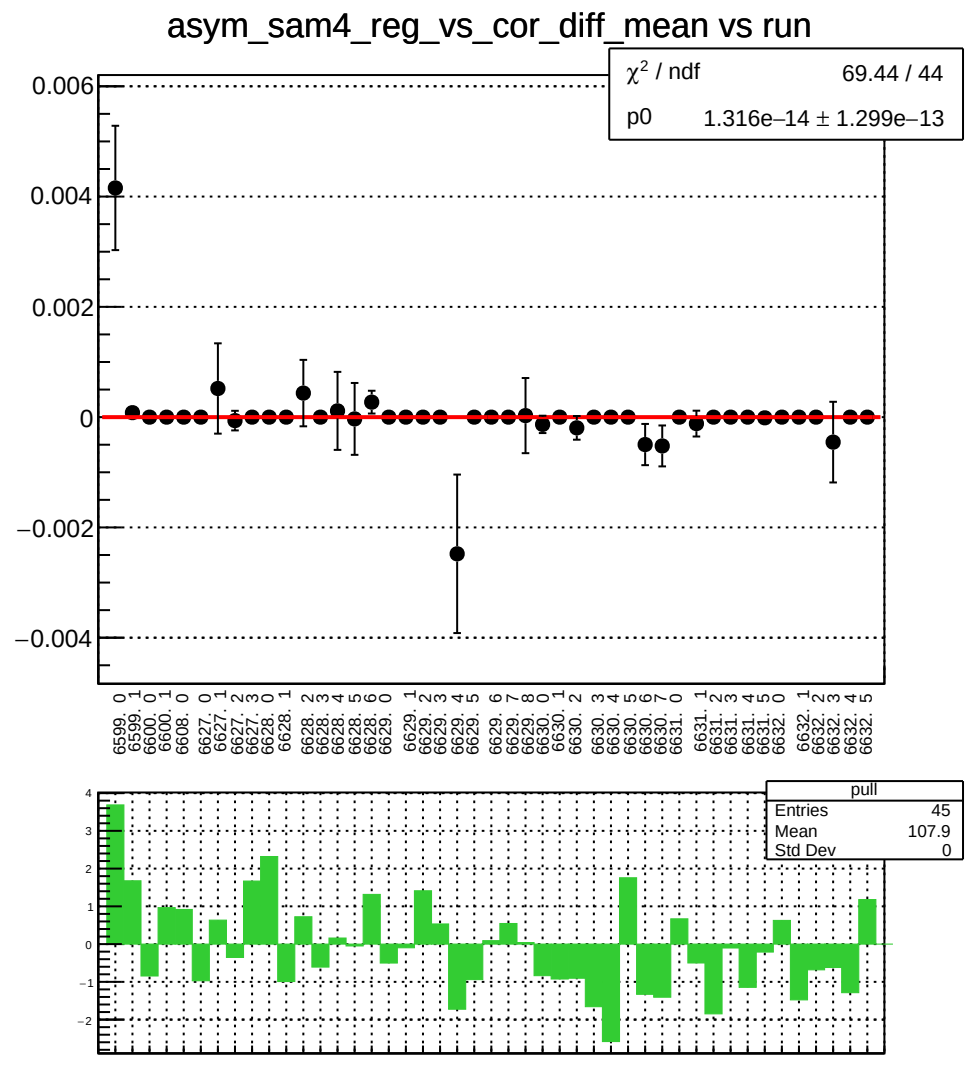
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −12.82
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02087
Std Dev 1.16
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

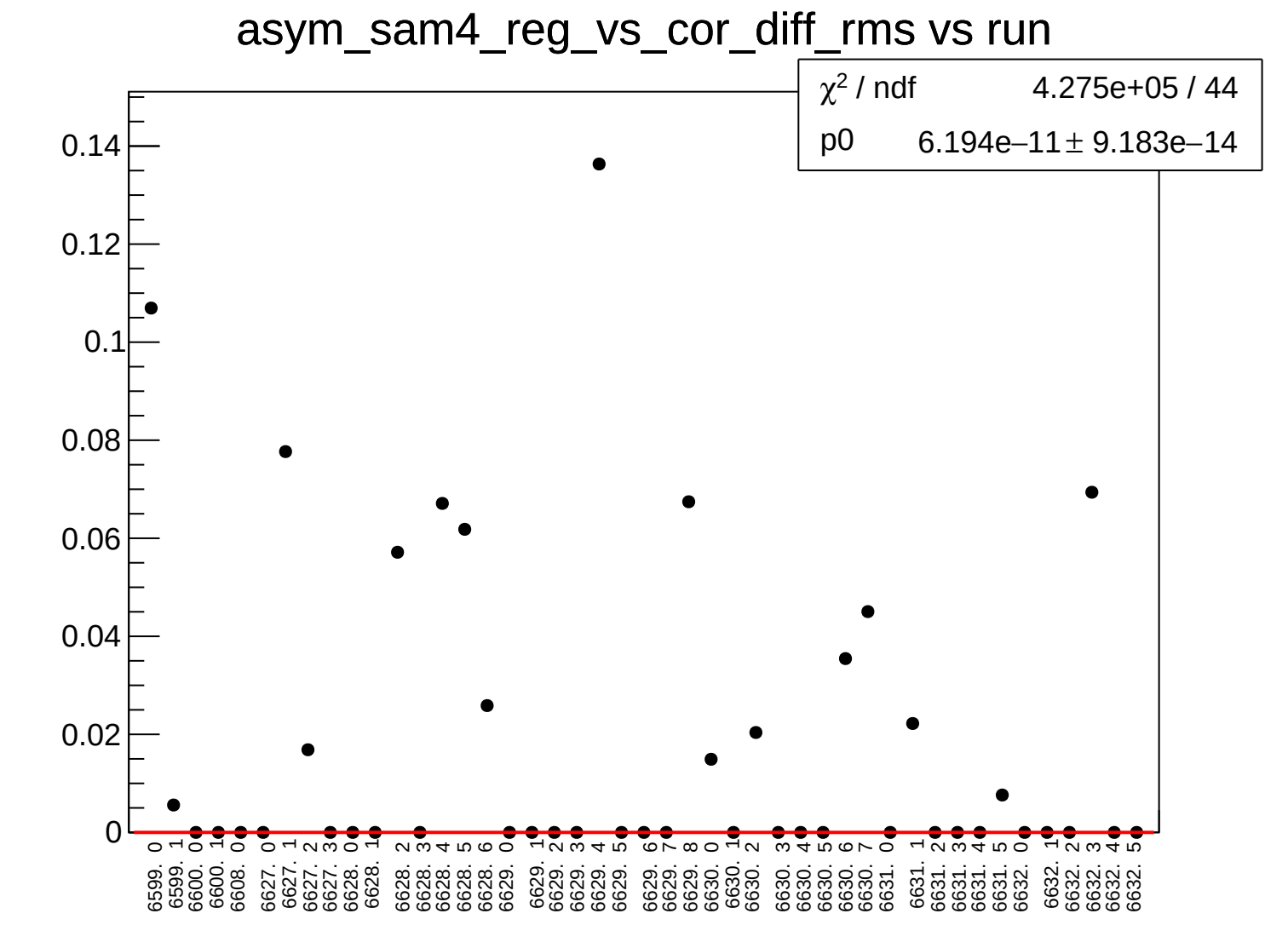

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 1968 / 44
p0 1984 ± 2.115
2300
2200
2100
2000
1900
1800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

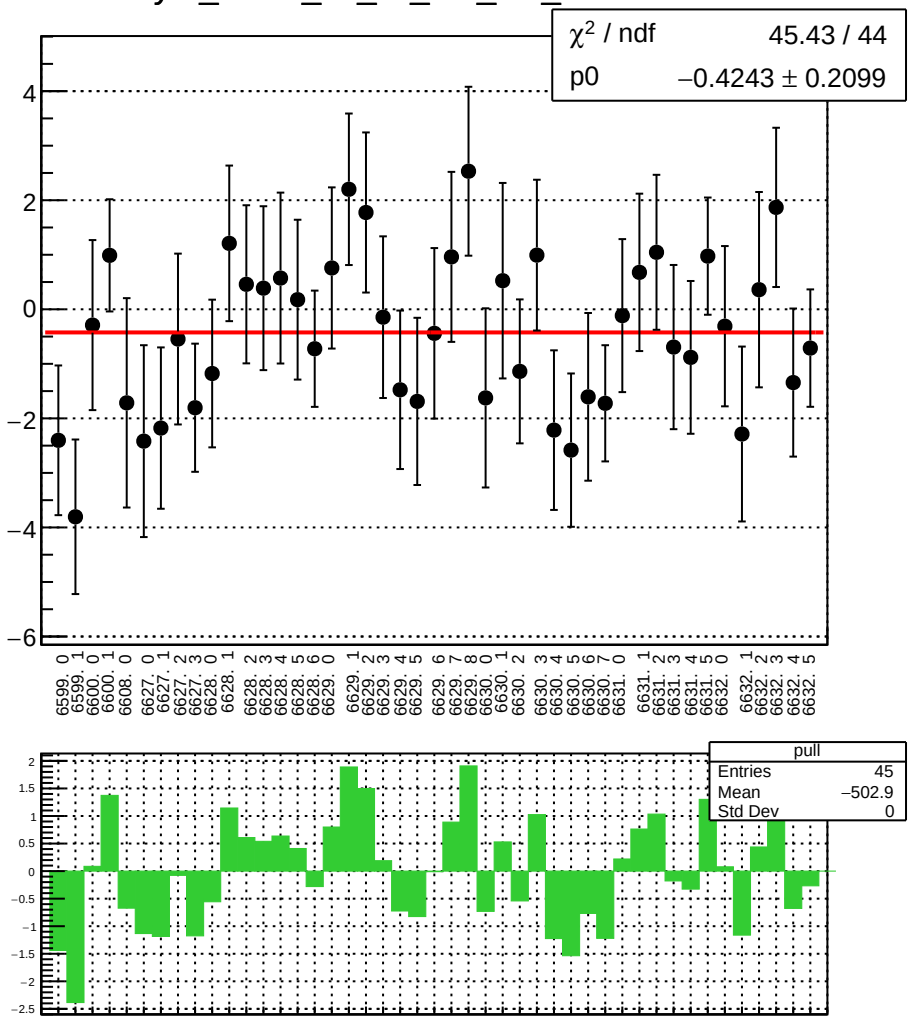

asym_sam4_mean vs run
χ² / ndf 62.88 / 44
p0 −4145 ± 2962
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 4.619
Std Dev 12.47
2
1
0
−1
−2

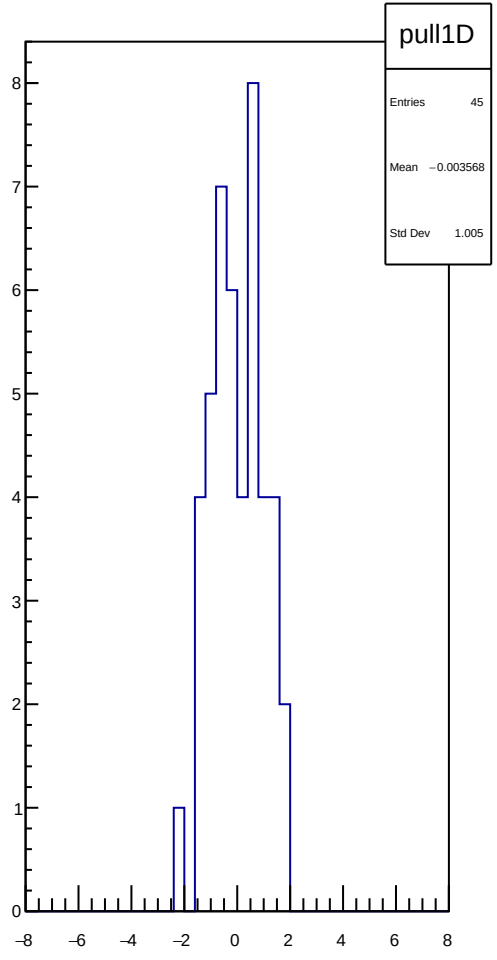

pull1D
Entries 45
Mean 0.0209
Std Dev 1.182
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

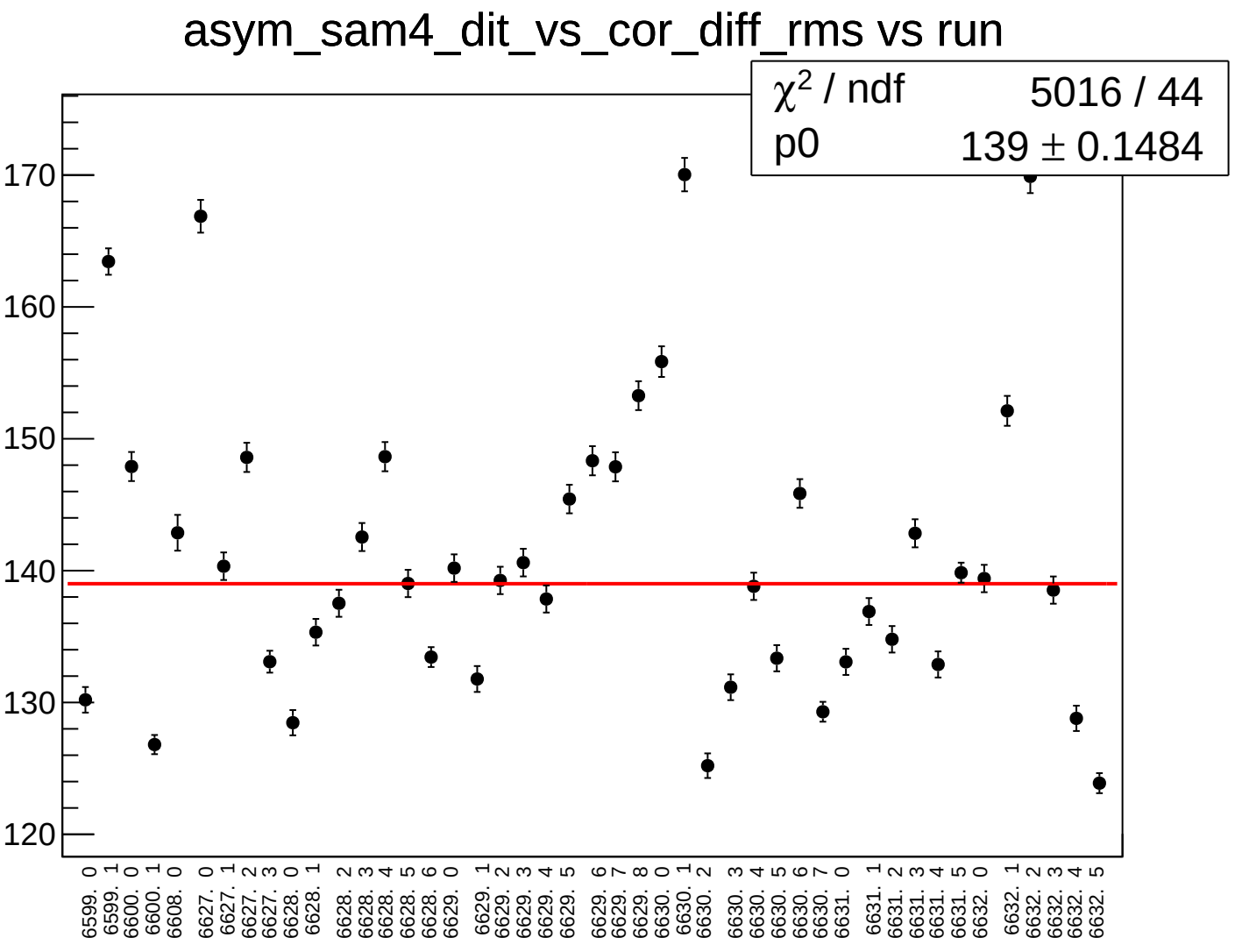

asym_sam4_rms vs run
χ² / ndf 2789 / 44
p0 1964 ± 2.094
2300
2200
2100
2000
1900
1800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

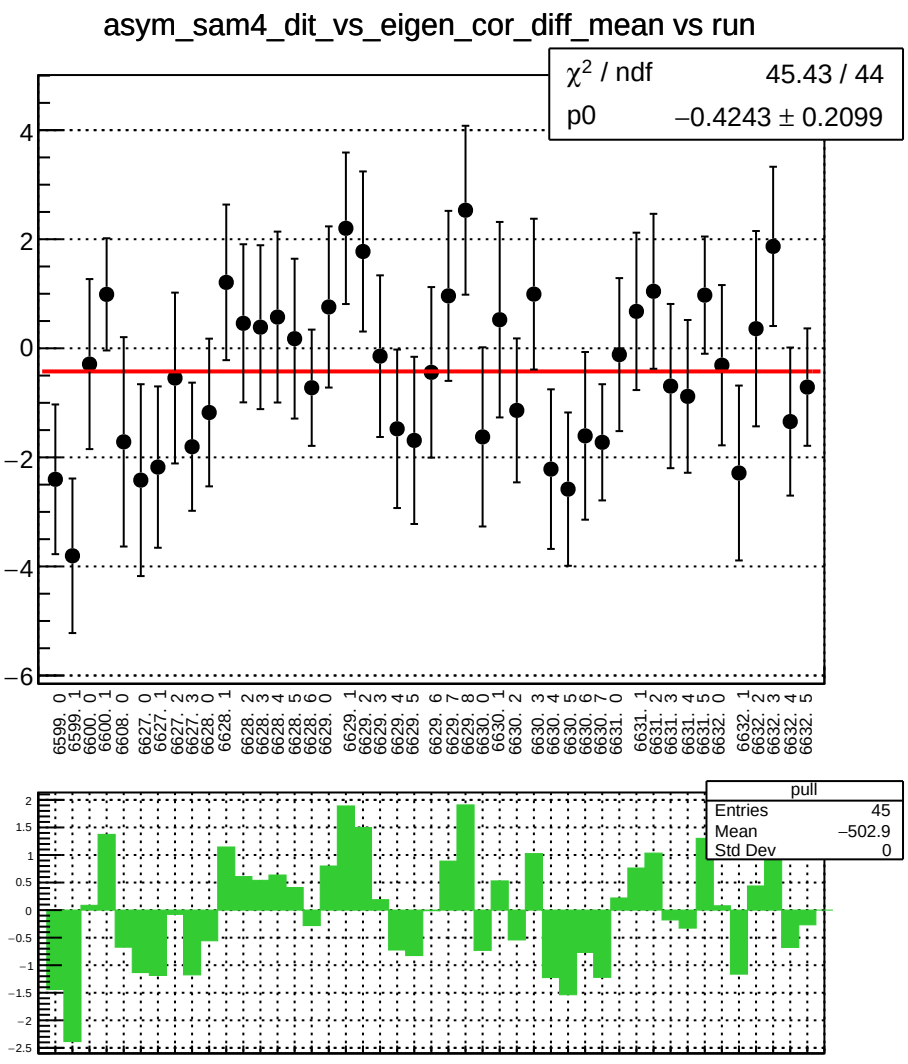

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 69.44 / 44
p0 1.316e−14 ± 1.299e−13
0.006
0.004
0.002
0
−0.002
−0.004
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 107.9
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.0814
Std Dev 1.24
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

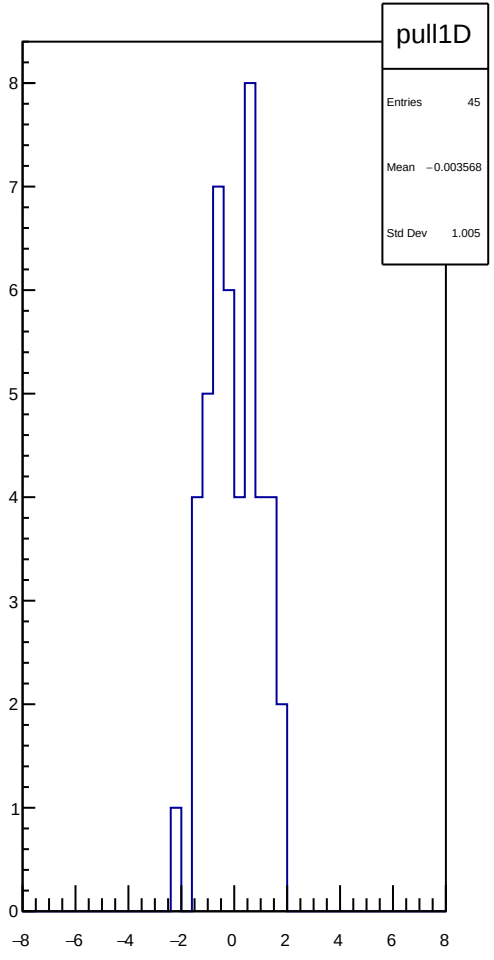

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 4.275e+05 / 44
p0 6.194e−11 ± 9.183e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

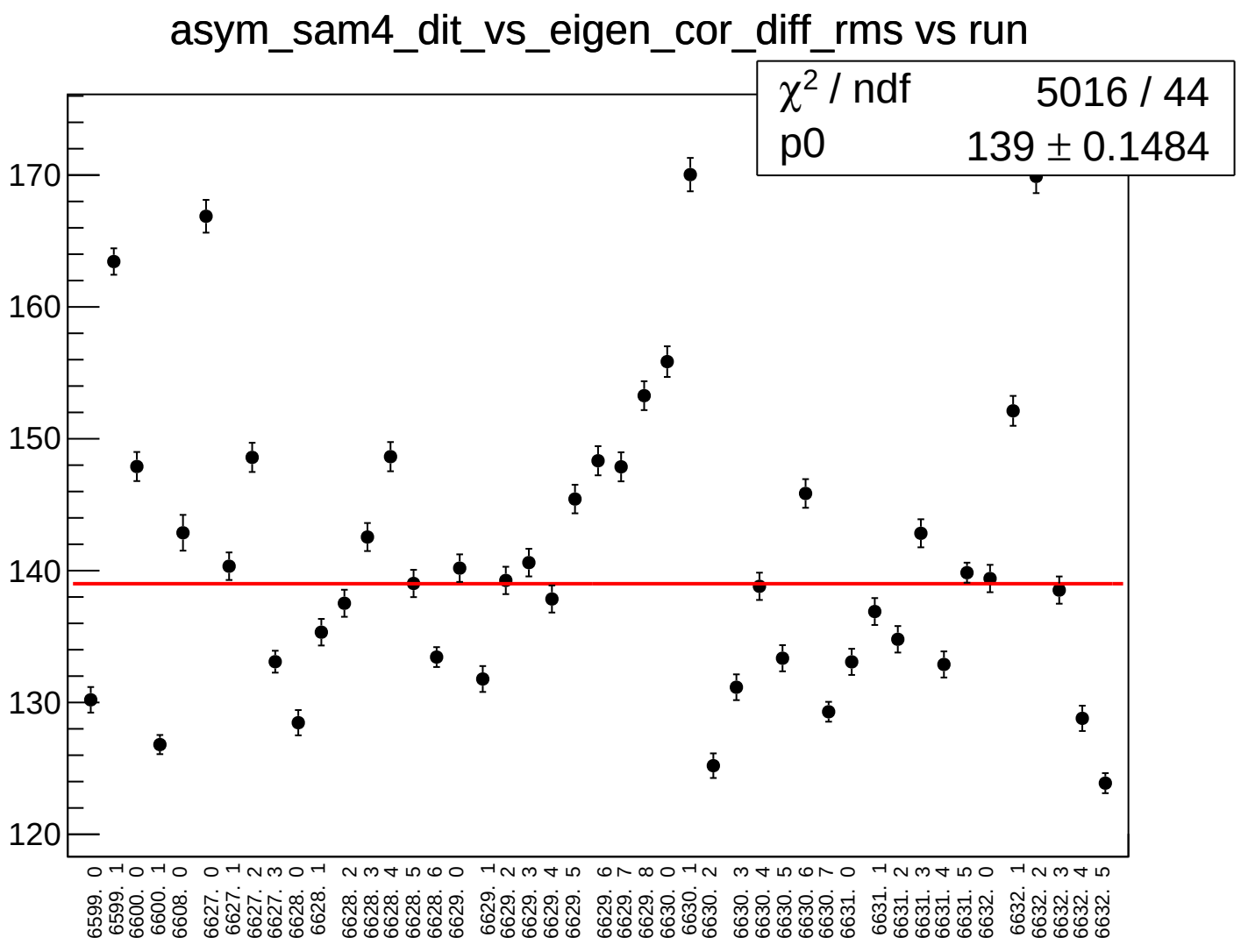

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 45.43 / 44
p0 −0.4243 ± 0.2099
pull
Entries 45
Mean −502.9
Std Dev 0

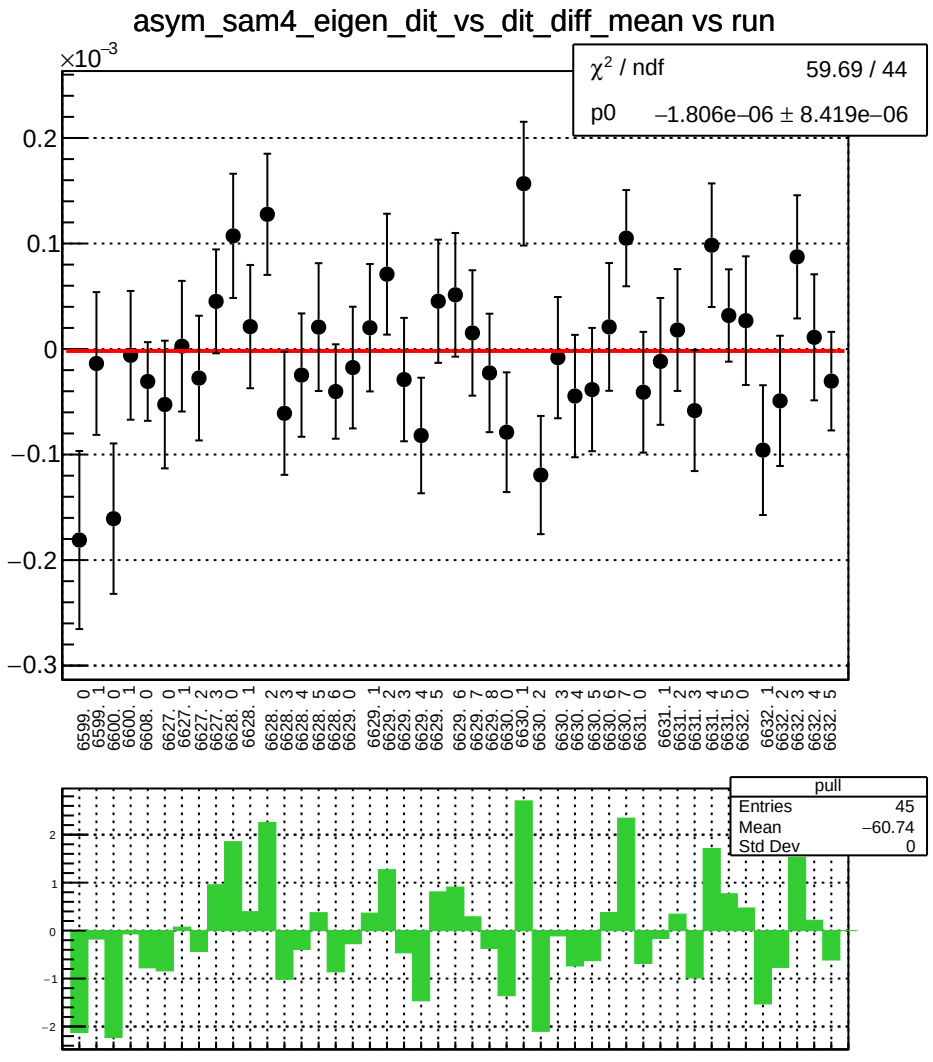

pull1D
Entries 45
Mean −0.003568
Std Dev 1.005

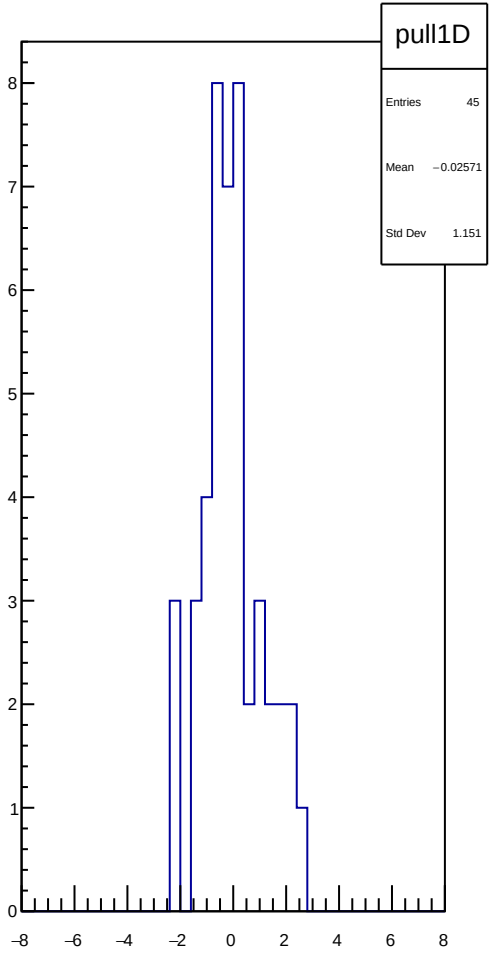

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 5016 / 44
p0 139 ± 0.1484
170
160
150
140
130
120
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

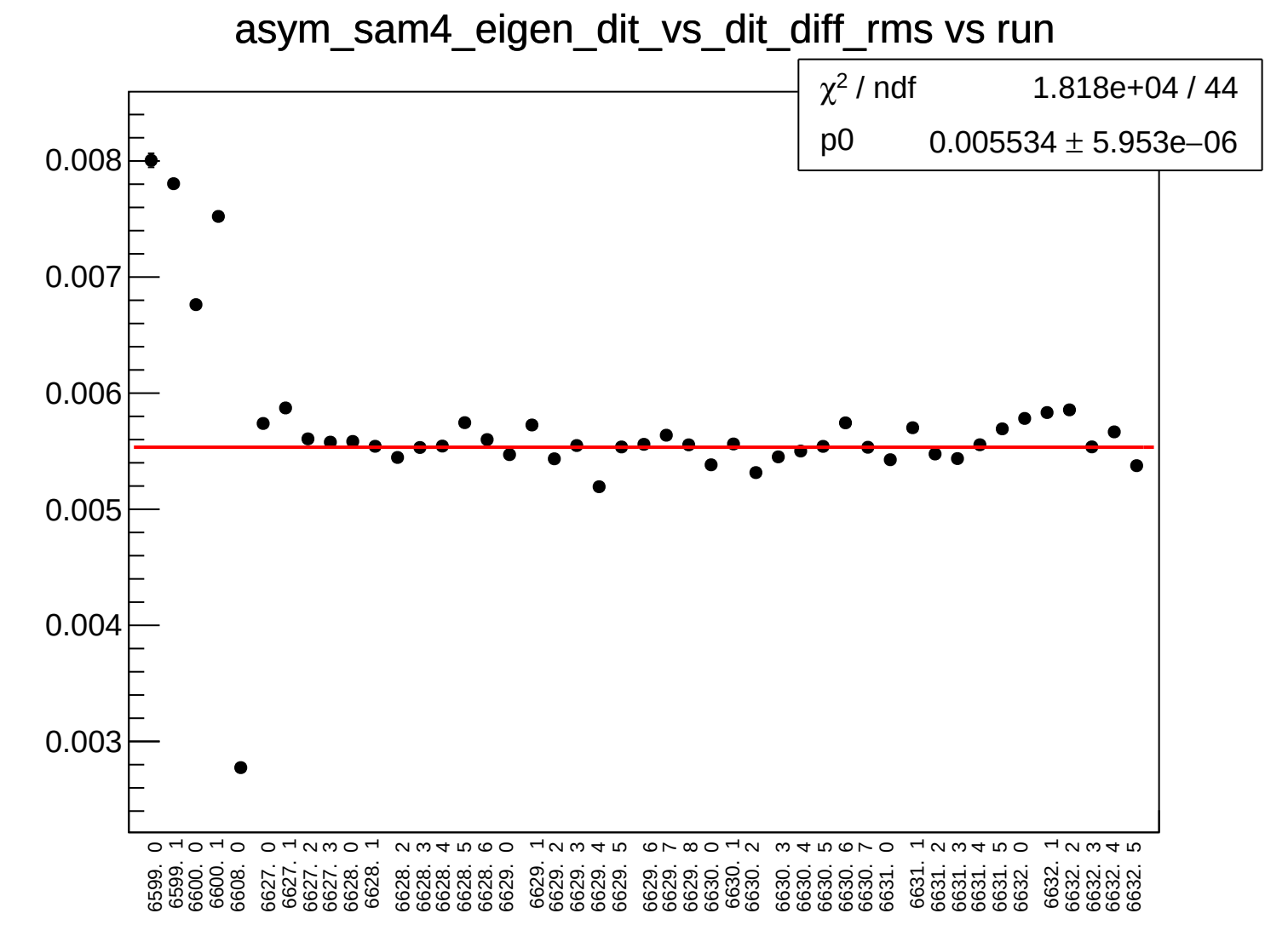

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 45.43 / 44
p0 −0.4243 ± 0.2099
pull
Entries 45
Mean −502.9
Std Dev 0

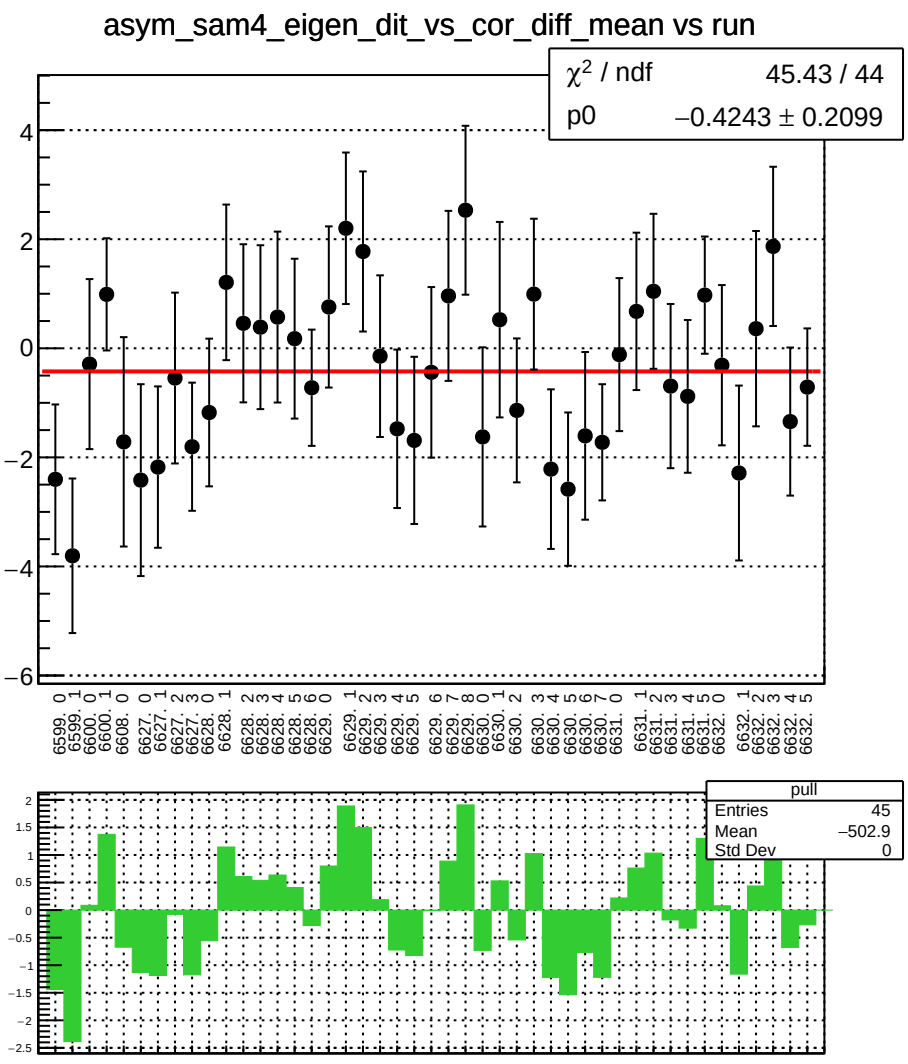

pull1D
Entries 45
Mean −0.003568
Std Dev 1.005

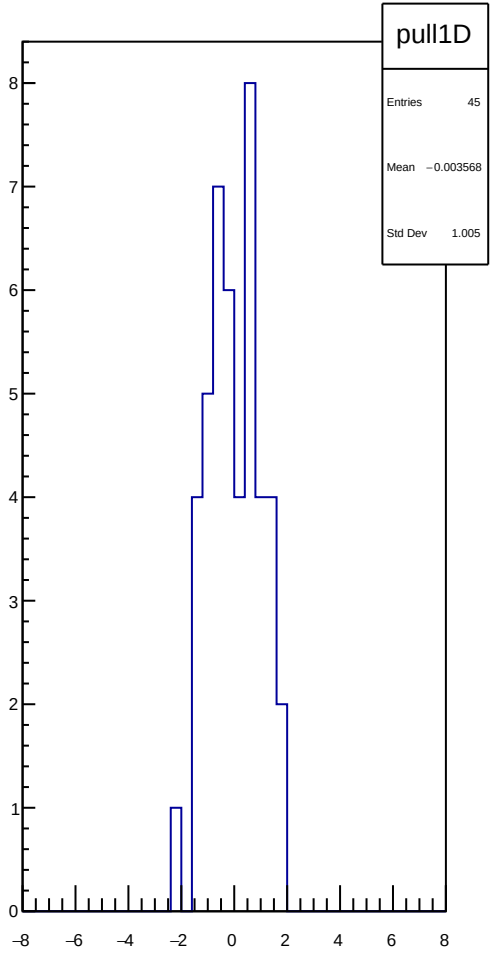

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5016 / 44
p0 139 ± 0.1484
170
160
150
140
130
120
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

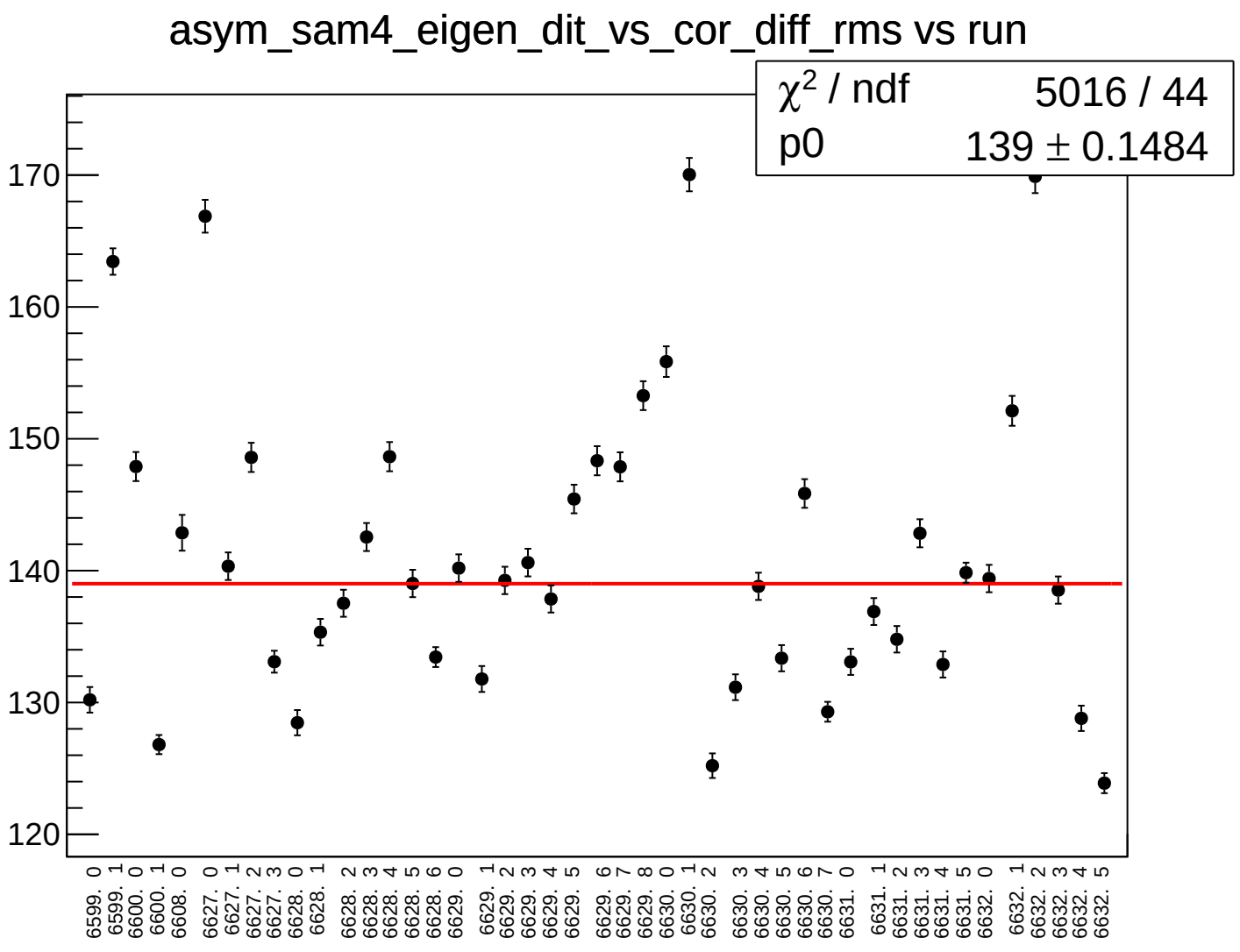

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 59.69 / 44
p0 −1.806e−06 ± 8.419e−06
0.2
0.1
0
−0.1
−0.2
−0.3
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −60.74
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.02571
Std Dev 1.151
8
7
6
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 1.818e+04 / 44
p0 0.005534 ± 5.953e−06
0.008
0.007
0.006
0.005
0.004
0.003
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 45.43 / 44
p0 −0.4243 ± 0.2099
pull
Entries 45
Mean −502.9
Std Dev 0


pull1D
Entries 45
Mean −0.003568
Std Dev 1.005


asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5016 / 44
p0 139 ± 0.1484
170
160
150
140
130
120
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
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6631. 0
6631. 1
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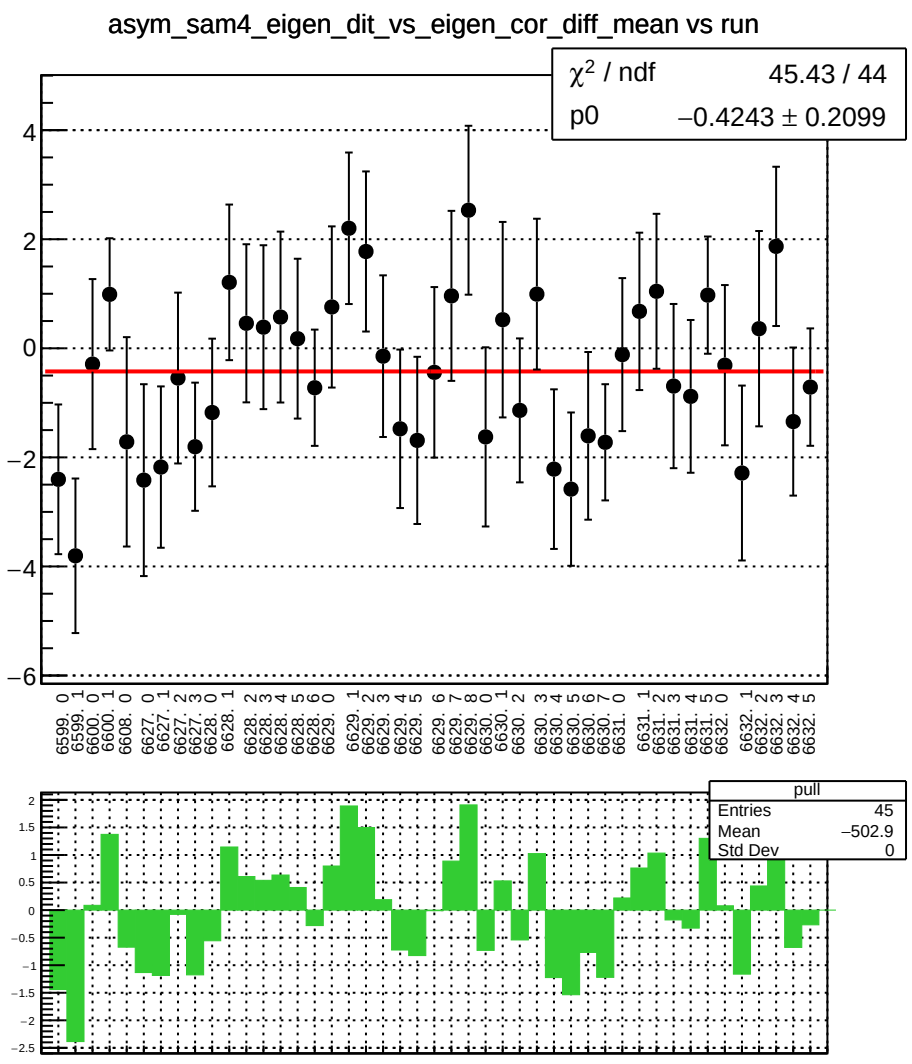
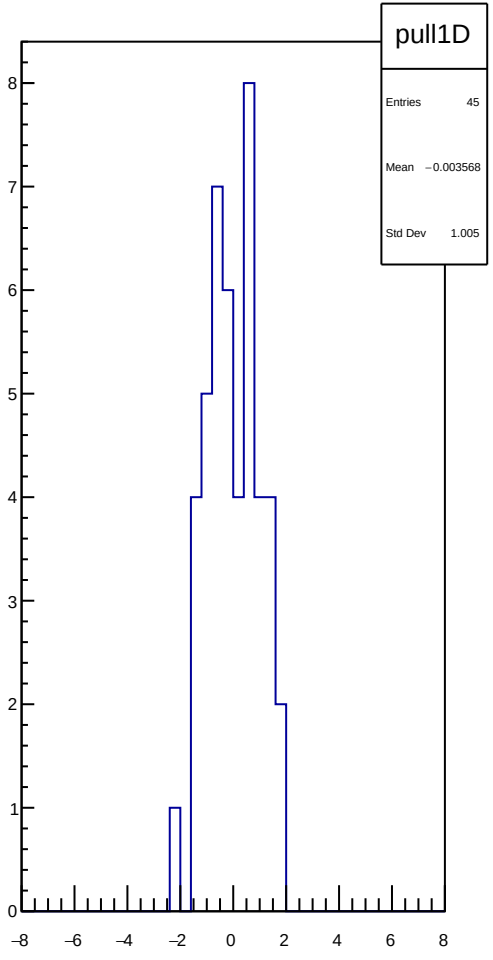
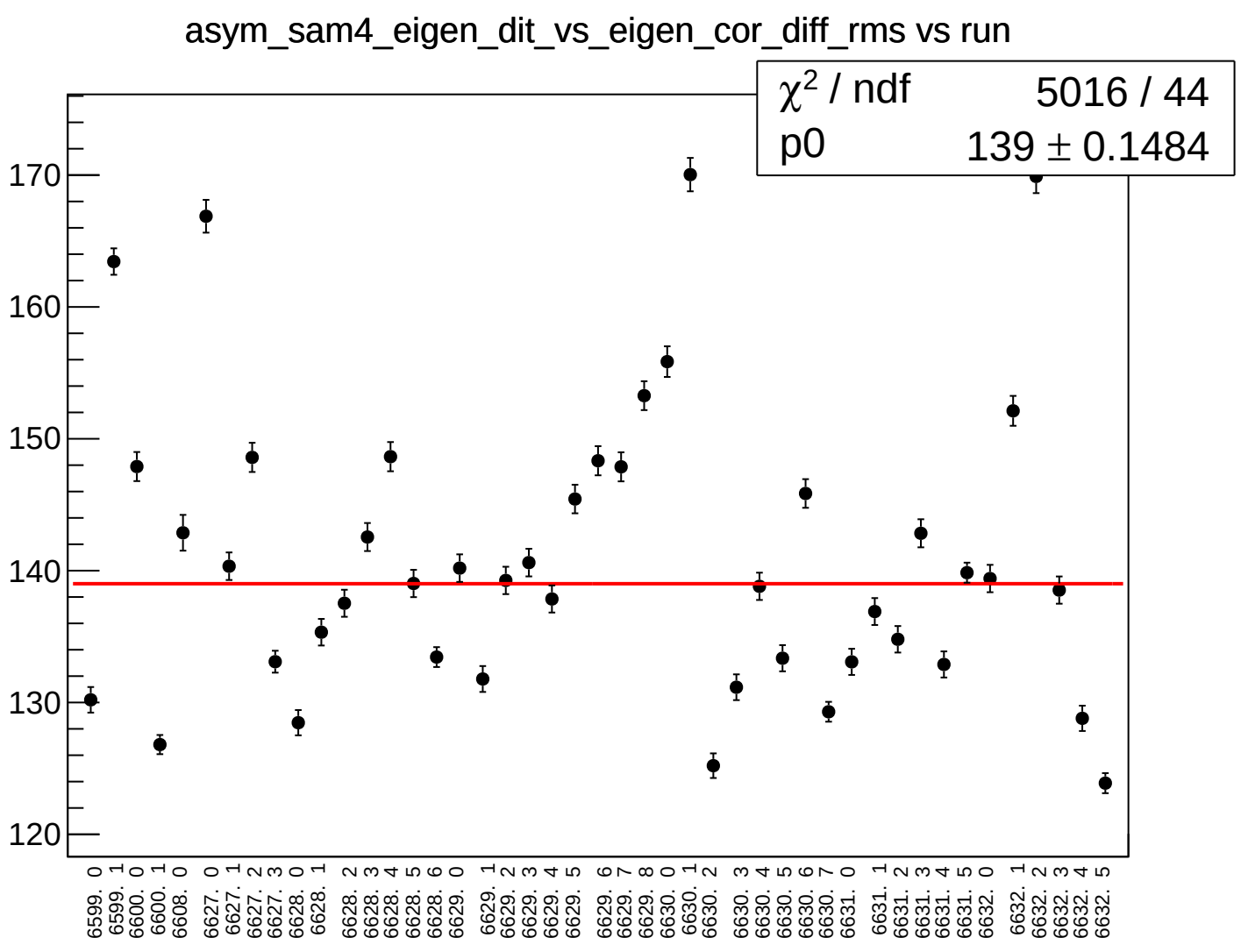
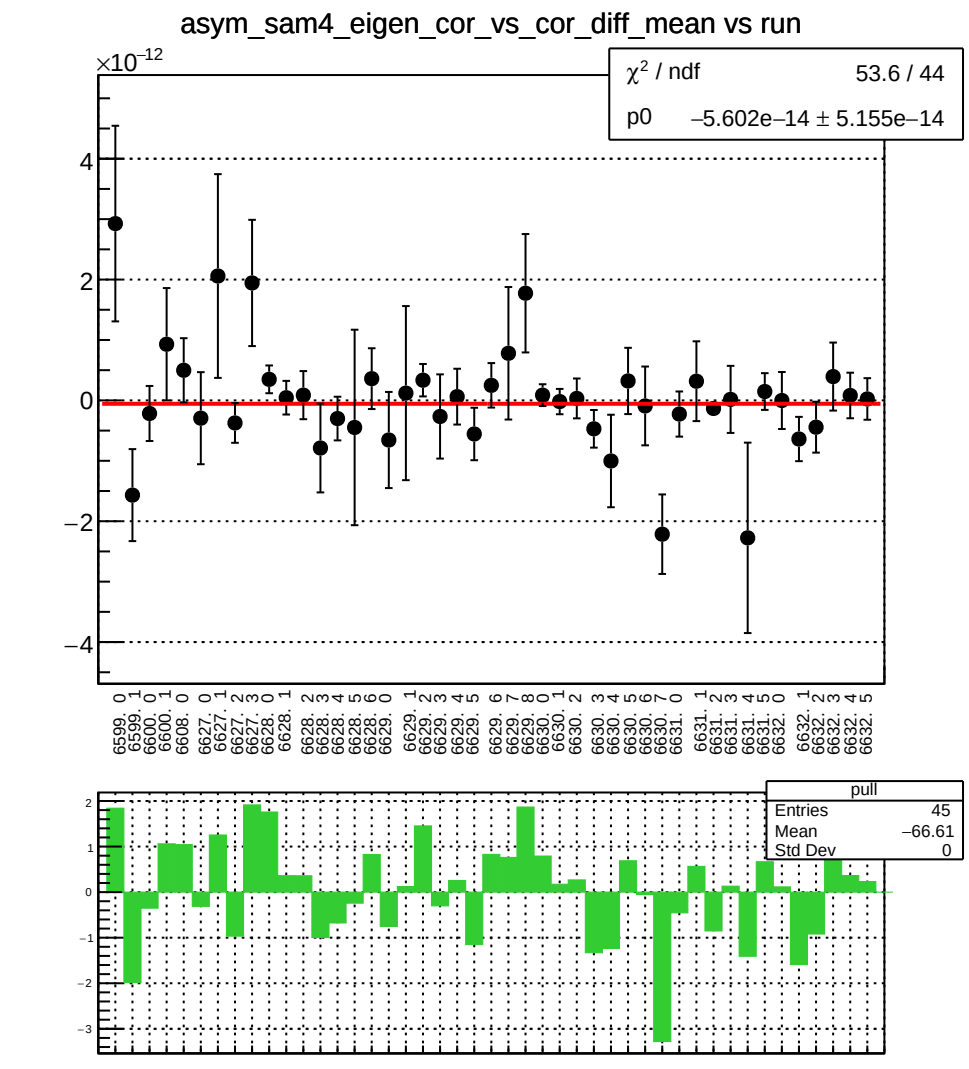
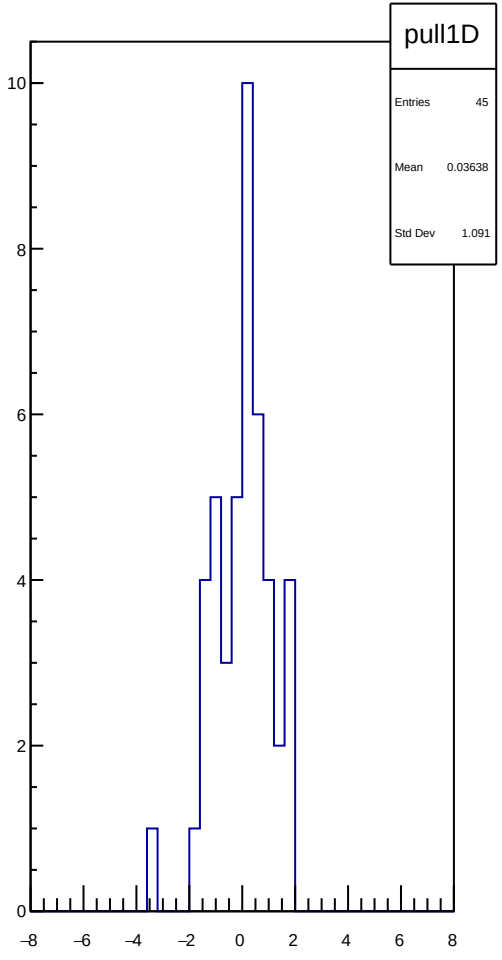
6632. 2
6632. 3
6632. 4
6632. 5

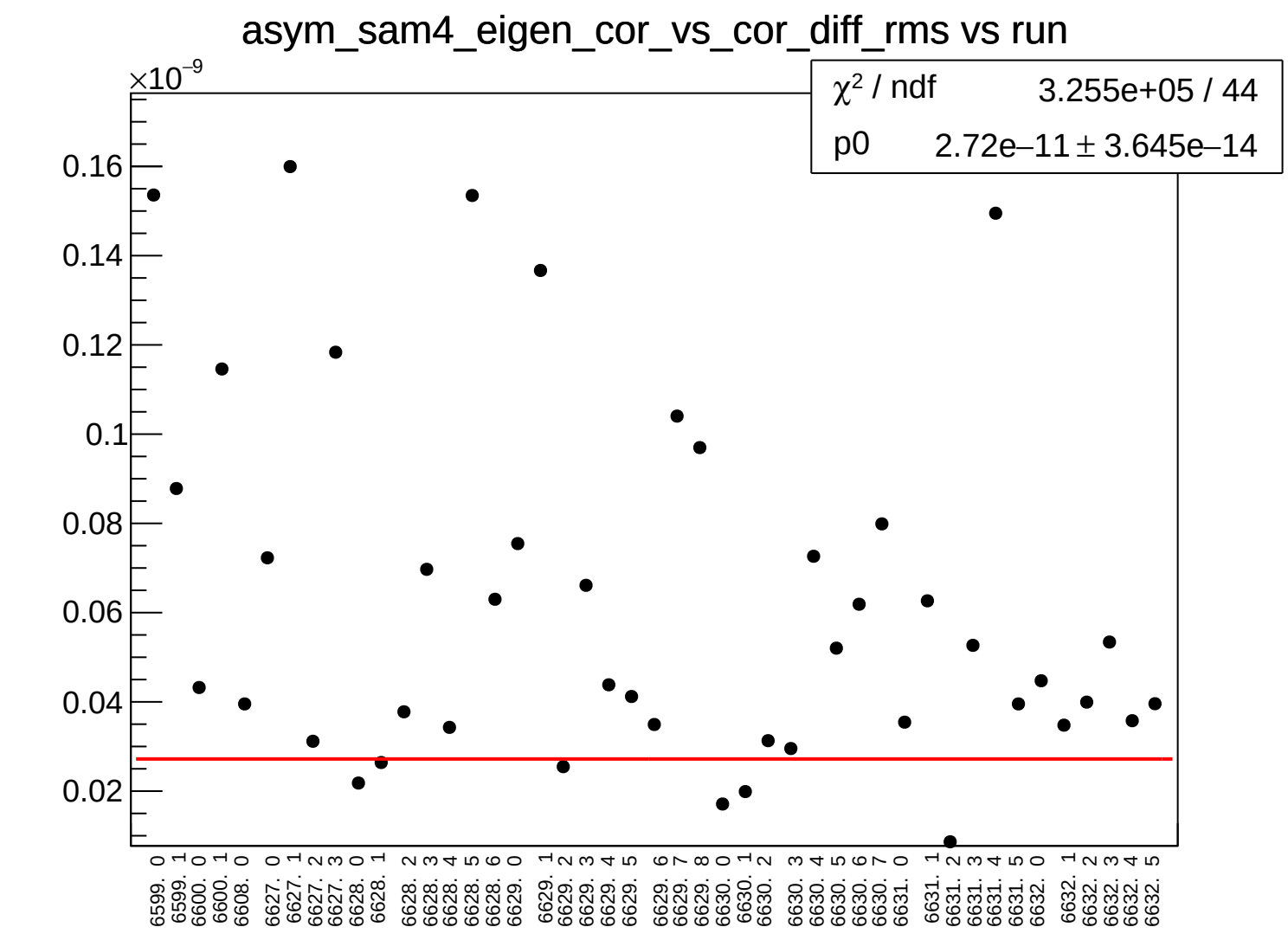

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 45.43 / 44
p0 −0.4243 ± 0.2099
pull
Entries 45
Mean −502.9
Std Dev 0

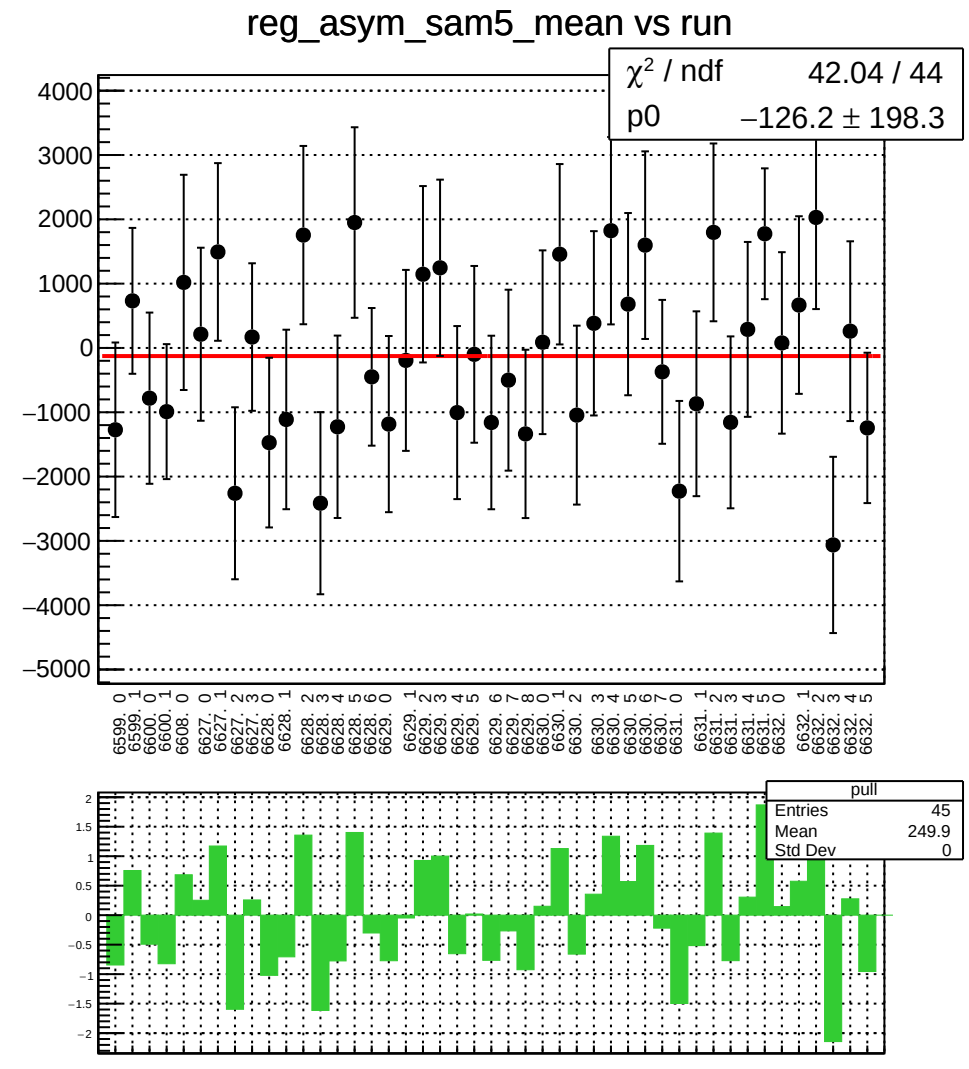

pull1D
Entries 45
Mean −0.003568
Std Dev 1.005


asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5016 / 44
p0 139 ± 0.1484
170
160
150
140
130
120
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 53.6 / 44
p0 −5.602e−14 ± 5.155e−14
4
2
0
−2
−4
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −66.61
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.03638
Std Dev 1.091
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.255e+05 / 44
p0 2.72e−11 ± 3.645e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


reg_asym_sam5_mean vs run
χ² / ndf 42.04 / 44
p0 −126.2 ± 198.3
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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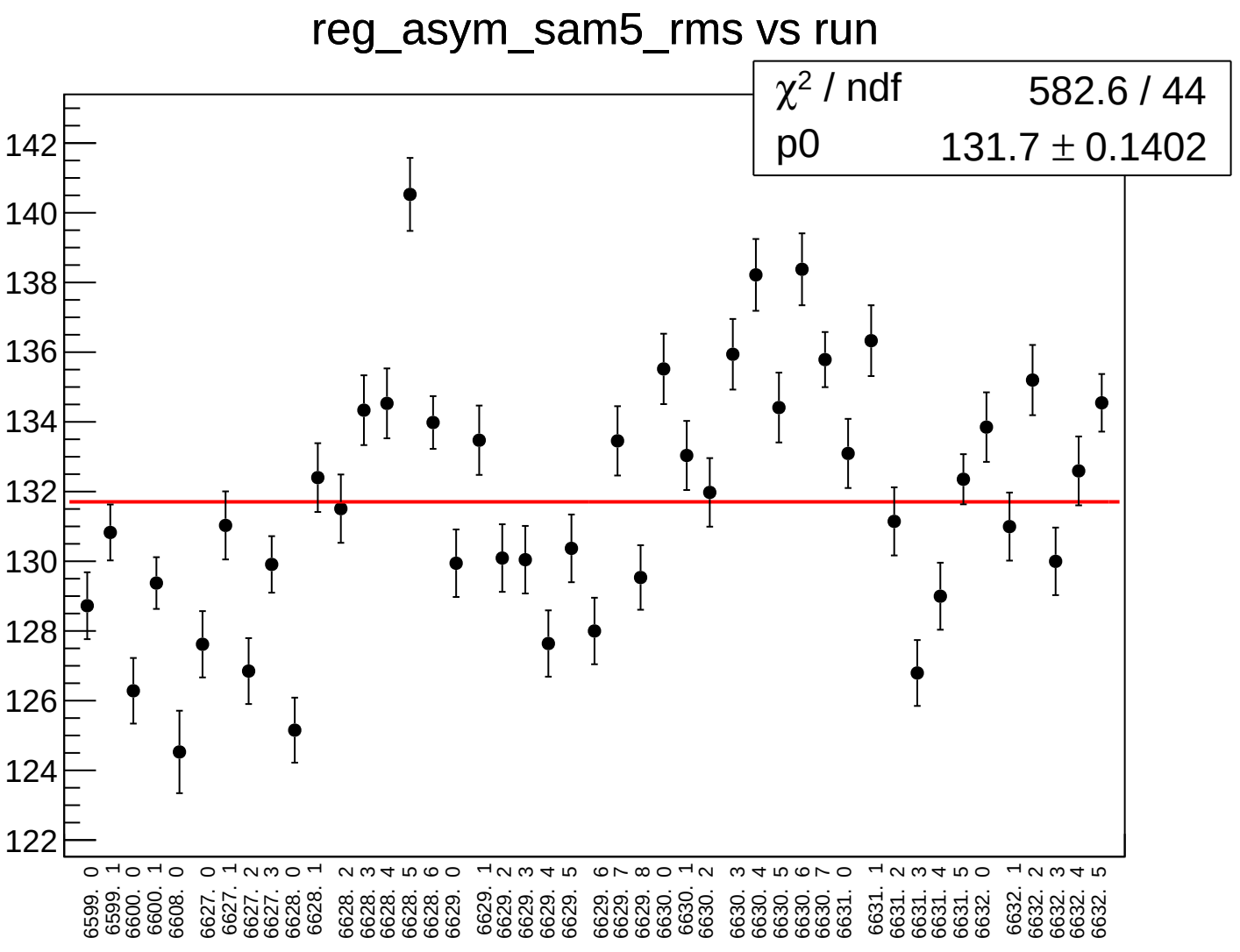
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 249.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.005868
Std Dev 0.9666
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam5_rms vs run
χ² / ndf 582.6 / 44
p0 131.7 ± 0.1402
142
140
138
136
134
132
130
128
126
124
122
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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6628. 2
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6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
6632. 0
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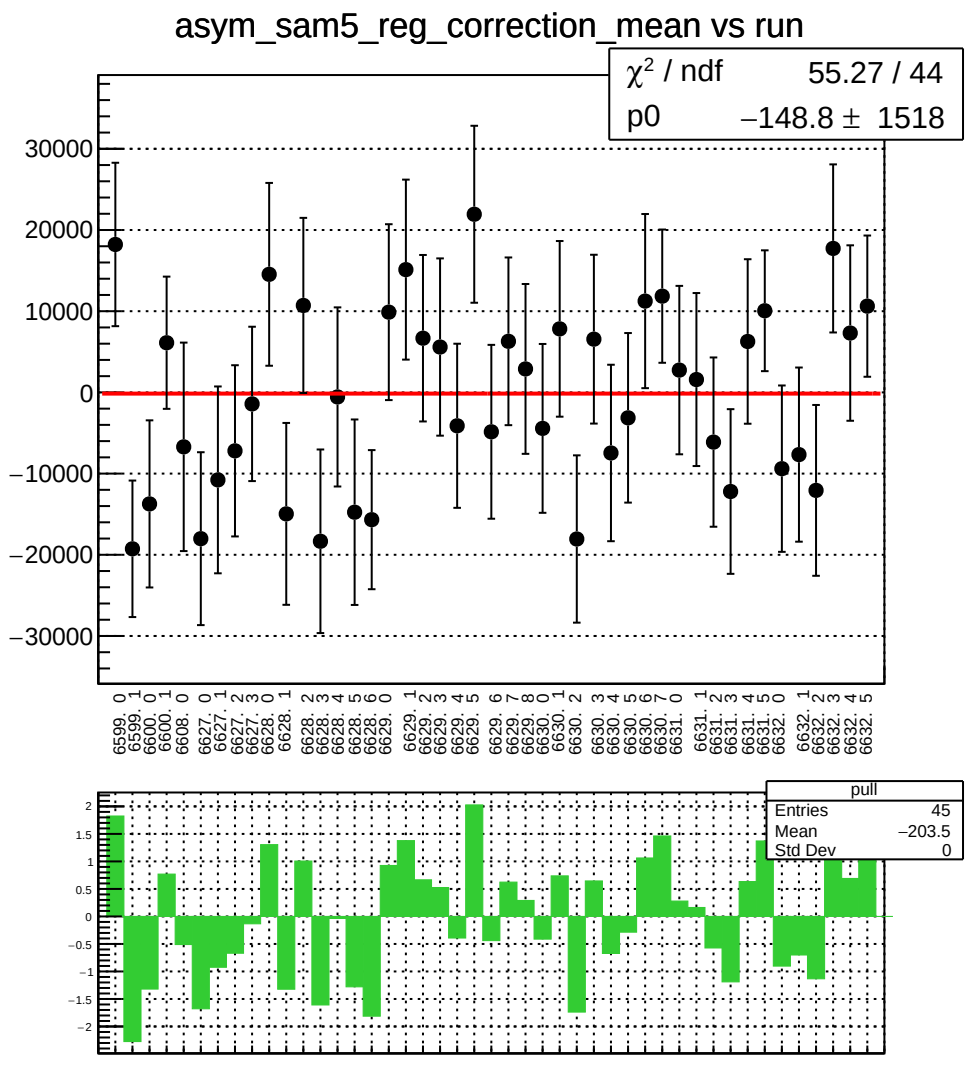
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam5_reg_correction_mean vs run
χ² / ndf 55.27 / 44
p0 −148.8 ± 1518
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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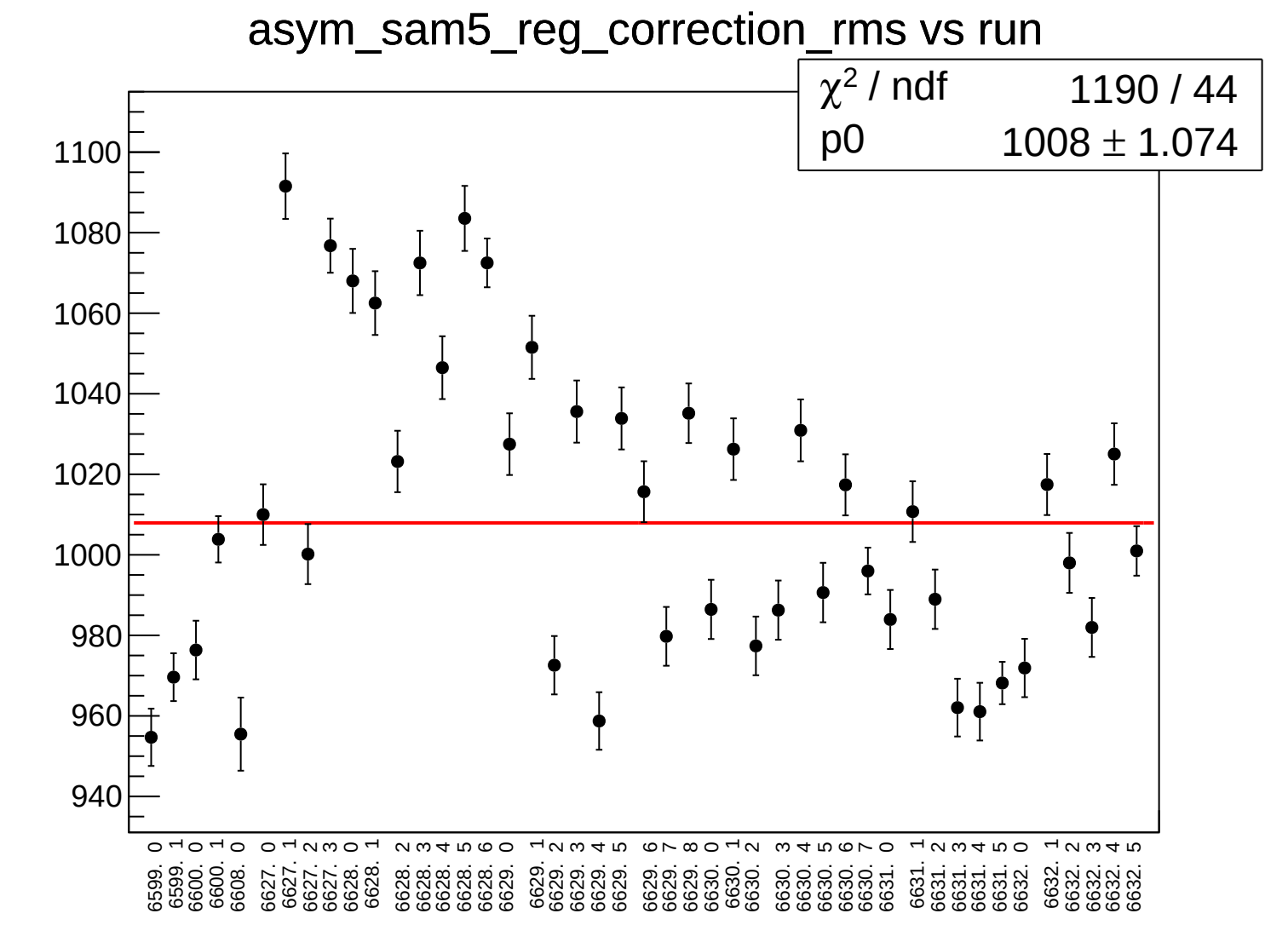
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −203.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.0145
Std Dev 1.108
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam5_reg_correction_rms vs run
χ² / ndf 1190 / 44
p0 1008 ± 1.074
1100
1080
1060
1040
1020
1000
980
960
940
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
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6629. 0
6629. 1
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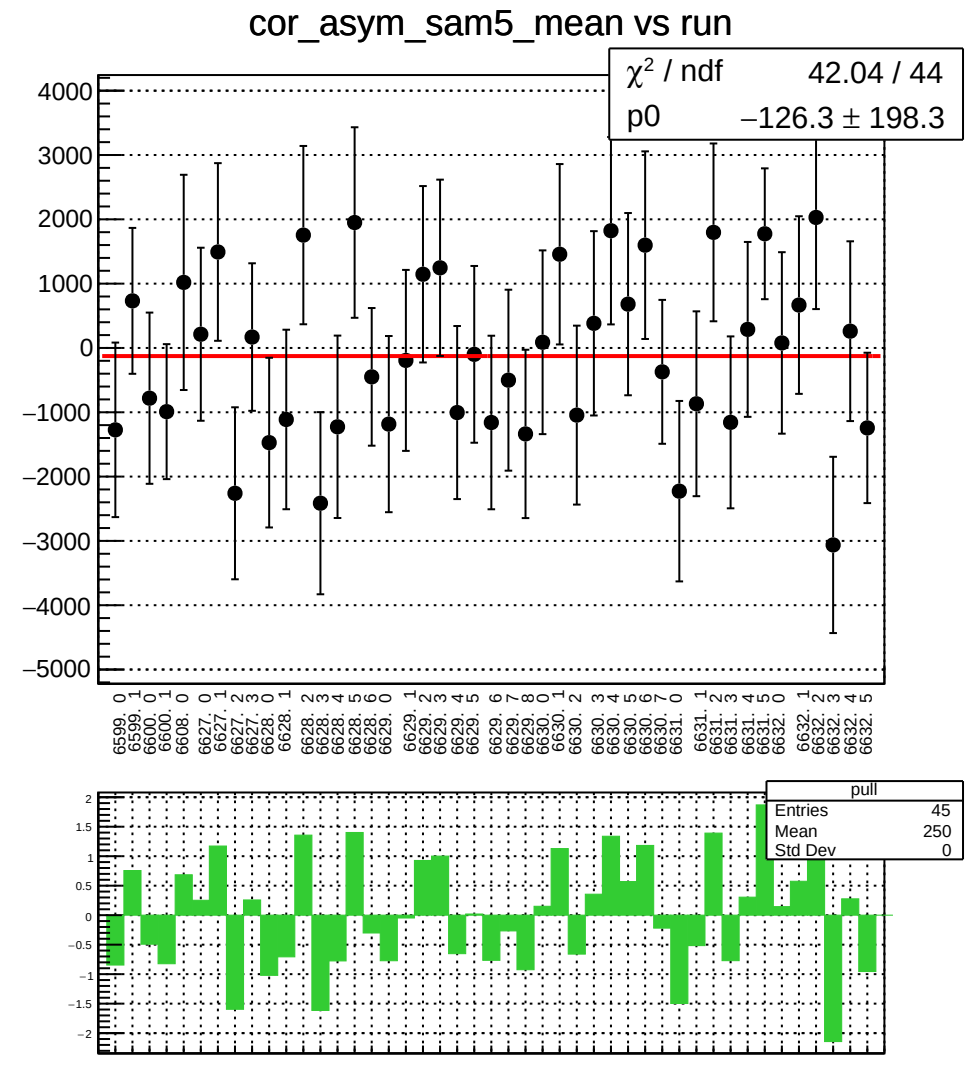
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_sam5_mean vs run
χ² / ndf 42.04 / 44
p0 −126.3 ± 198.3
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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6628. 6
6629. 0
6629. 1
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6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
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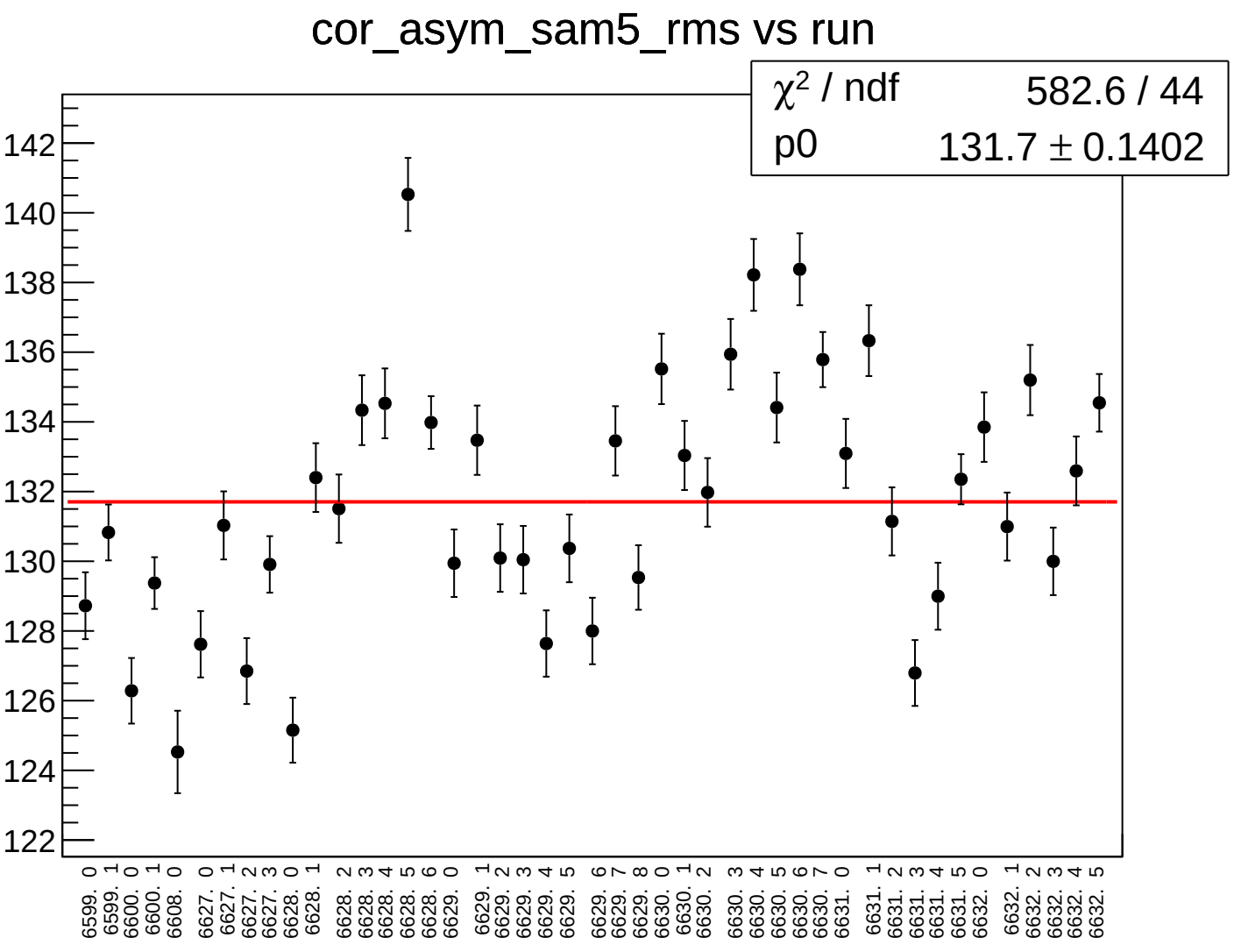
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 250
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.005867
Std Dev 0.9665
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam5_rms vs run
χ² / ndf 582.6 / 44
p0 131.7 ± 0.1402
142
140
138
136
134
132
130
128
126
124
122
6599. 0
6599. 1
6600. 0
6600. 1
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6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 5
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6632. 1
6632. 2
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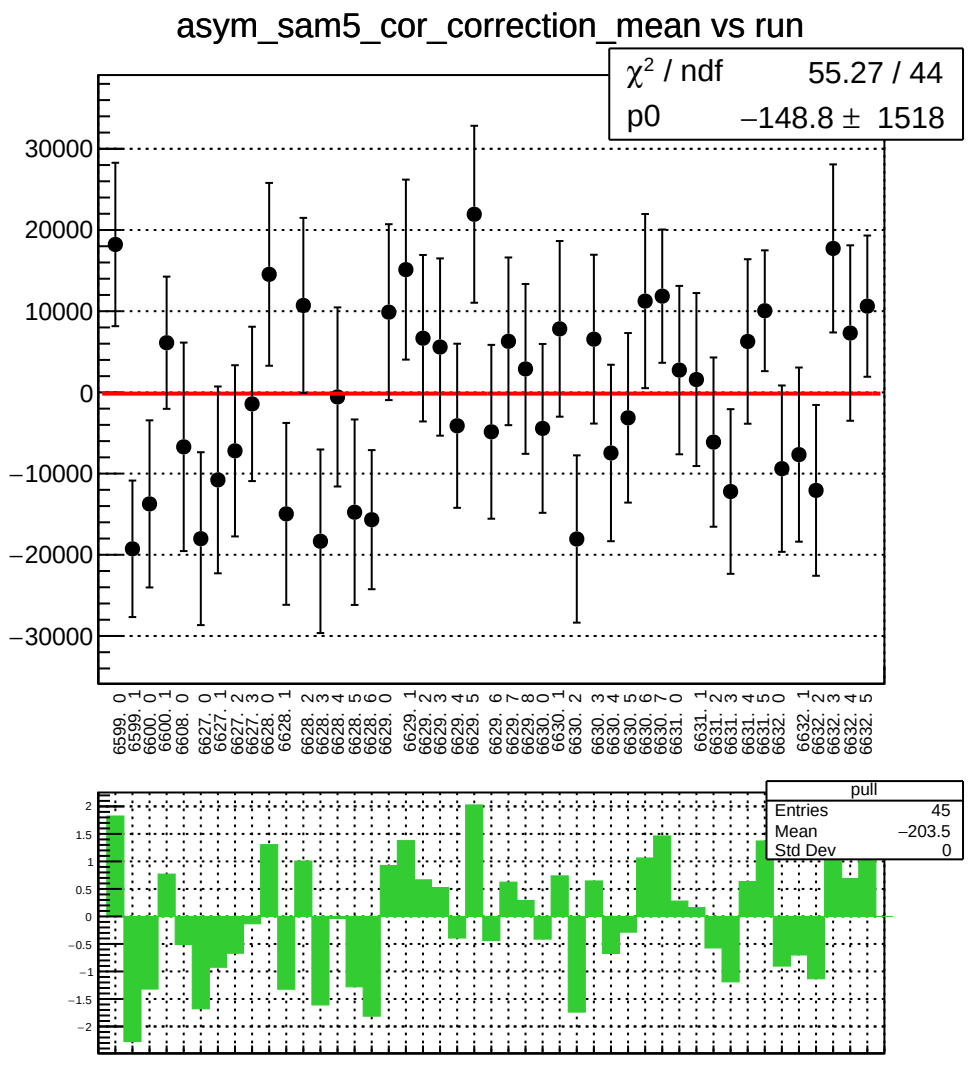
6632. 4
6632. 5


asym_sam5_cor_correction_mean vs run
χ² / ndf 55.27 / 44
p0 −148.8 ± 1518
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
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6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −203.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.0145
Std Dev 1.108
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
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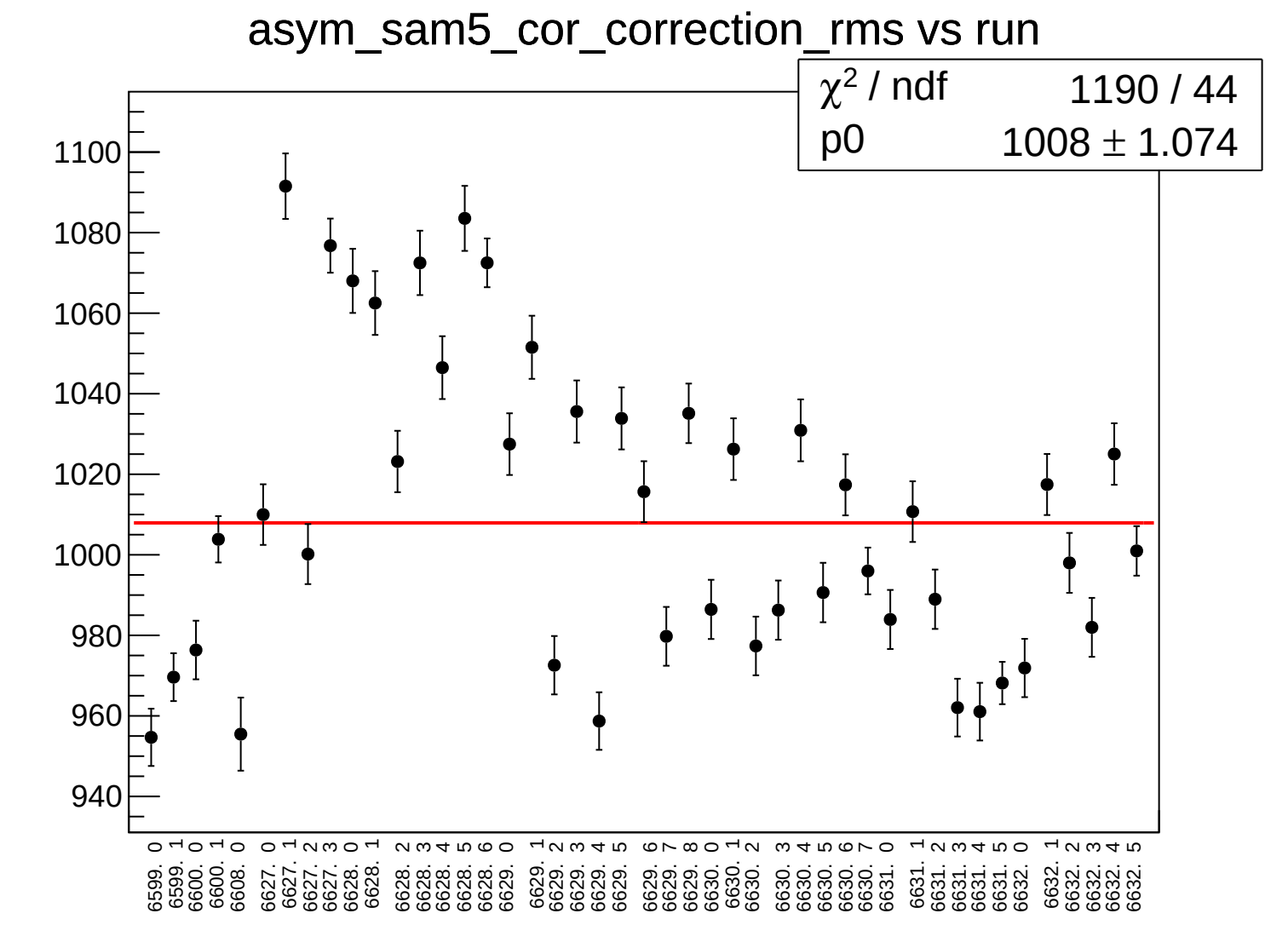
asym_sam5_cor_correction_rms vs run
χ² / ndf 1190 / 44
p0 1008 ± 1.074
1100
1080
1060
1040
1020
1000
980
960
940
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 5
6628. 6
6629. 0
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6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 7
6631. 0
6631. 1
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6632. 0
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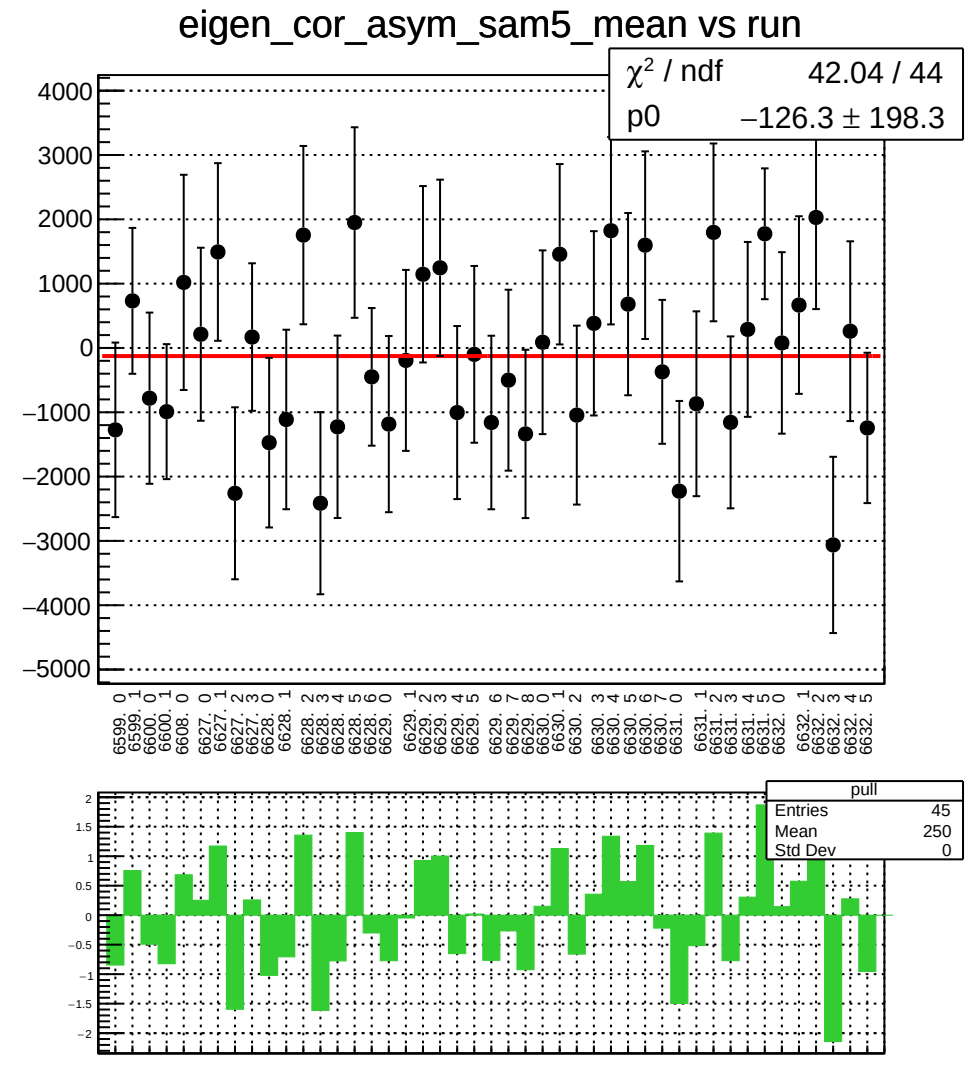
6632. 2
6632. 3
6632. 4
6632. 5


eigen_cor_asym_sam5_mean vs run
χ² / ndf 42.04 / 44
p0 −126.3 ± 198.3
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
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6628. 6
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6629. 8
6630. 0
6630. 1
6630. 2
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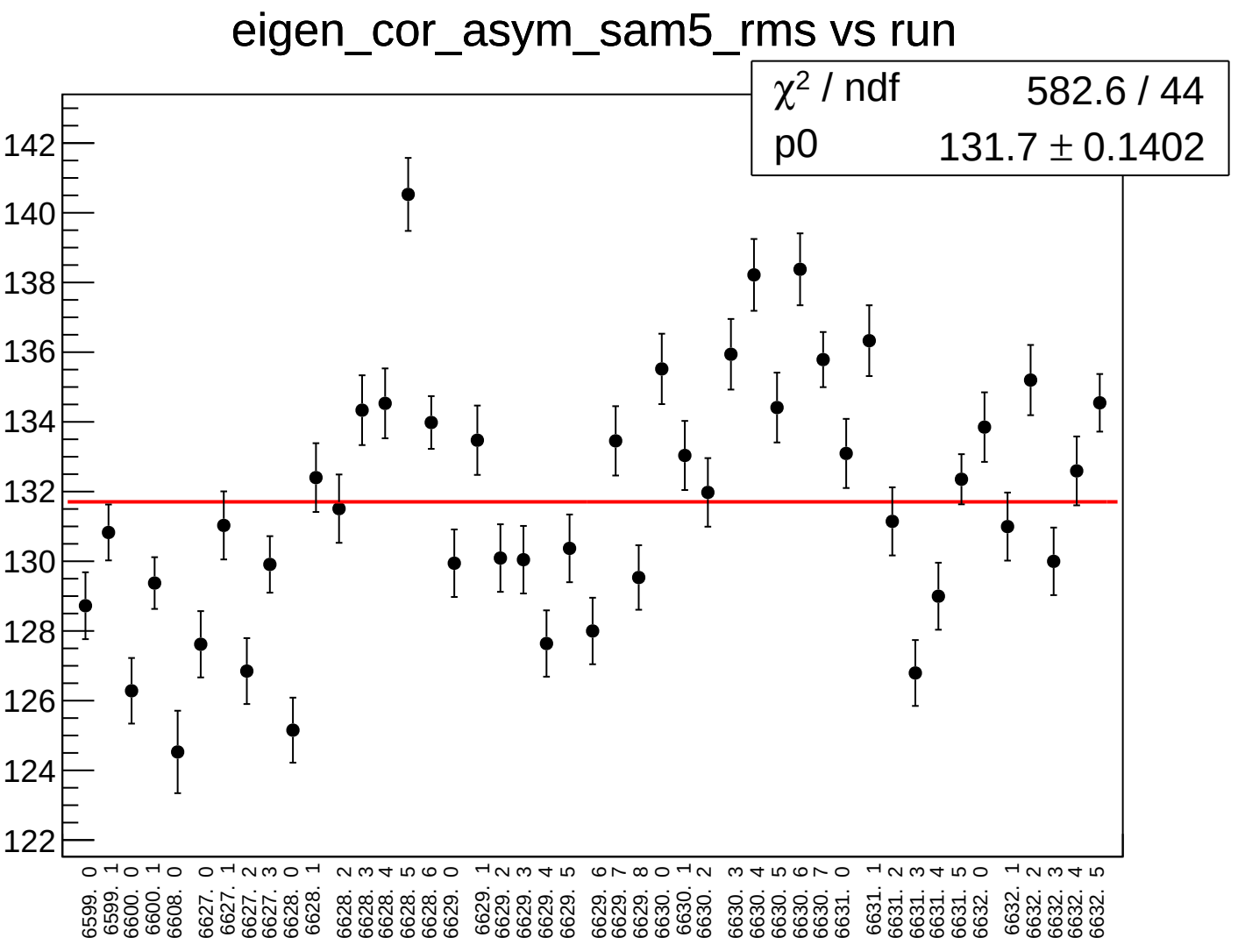
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 250
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.005867
Std Dev 0.9665
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam5_rms vs run
χ² / ndf 582.6 / 44
p0 131.7 ± 0.1402
142
140
138
136
134
132
130
128
126
124
122
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
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6628. 6
6629. 0
6629. 1
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6629. 6
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6630. 2
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6630. 6
6630. 7
6631. 0
6631. 1
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6632. 2
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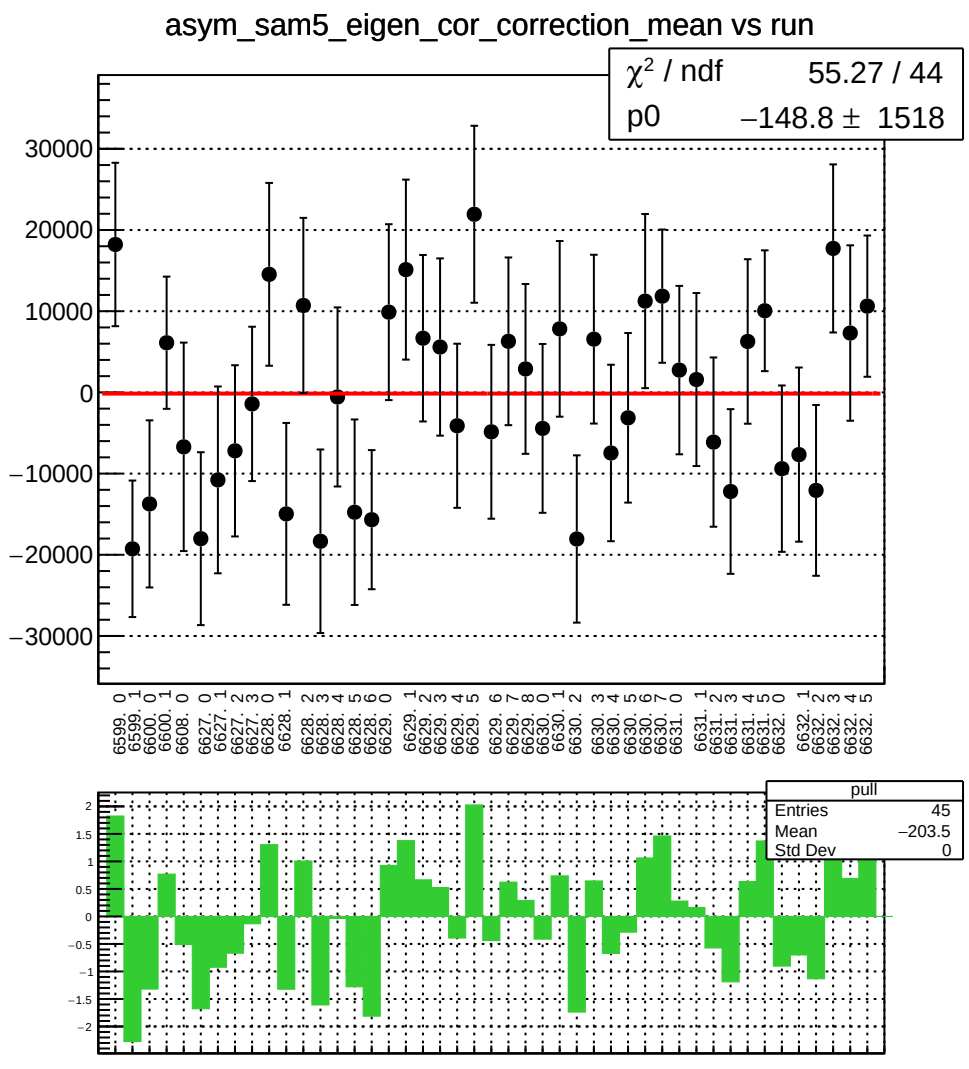
6632. 4
6632. 5


asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 55.27 / 44
p0 −148.8 ± 1518
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6630. 6
6630. 7
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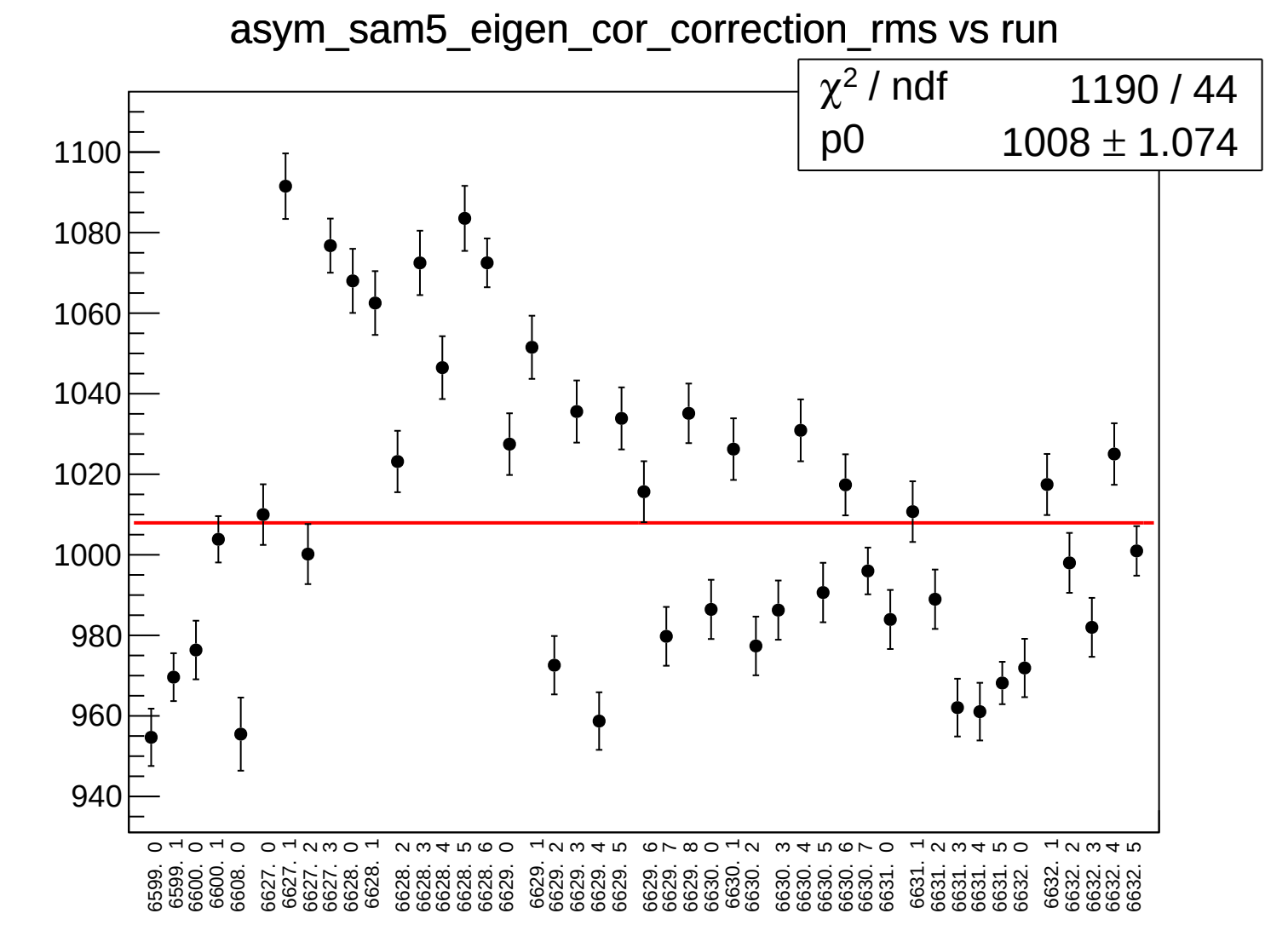
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −203.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.0145
Std Dev 1.108
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 1190 / 44
p0 1008 ± 1.074
1100
1080
1060
1040
1020
1000
980
960
940
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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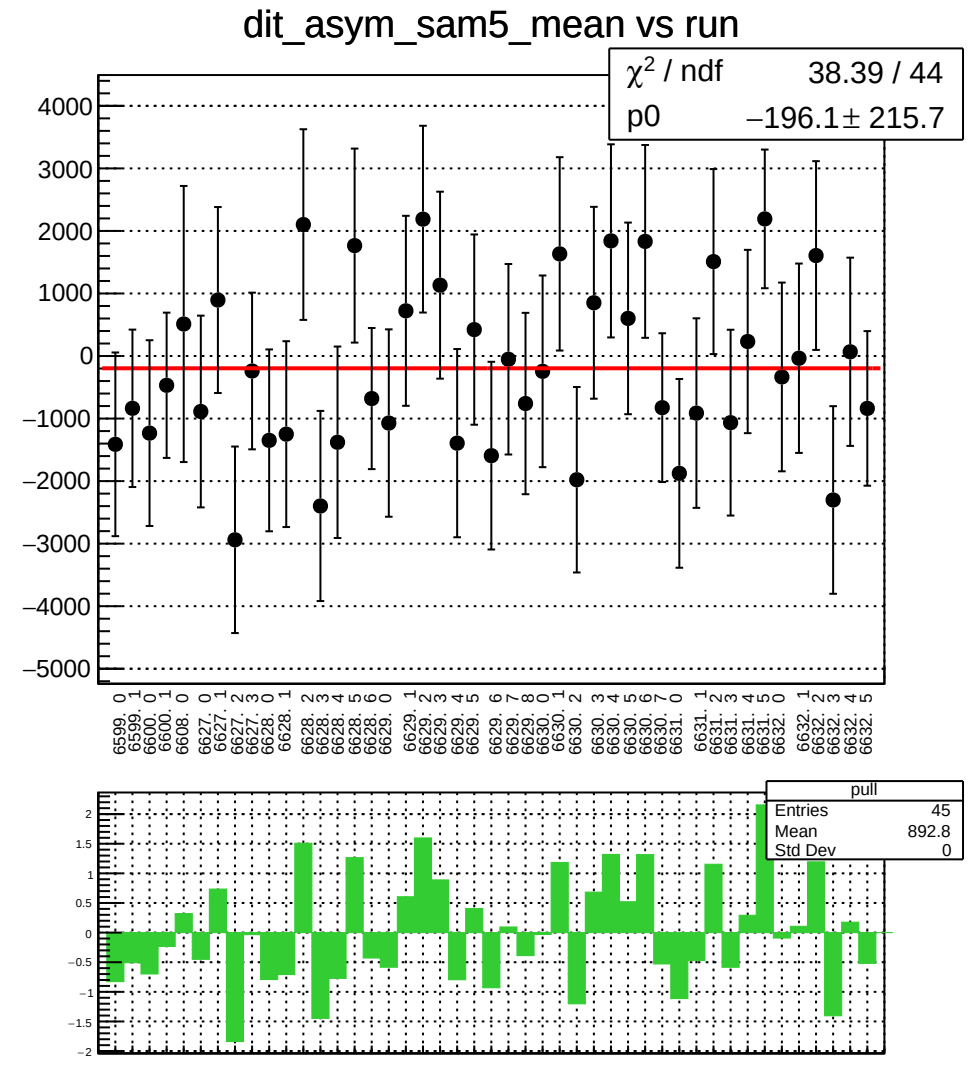
6632. 5


dit_asym_sam5_mean vs run
$\chi^2$ / ndf 38.39 / 44
p0 −196.1± 215.7
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
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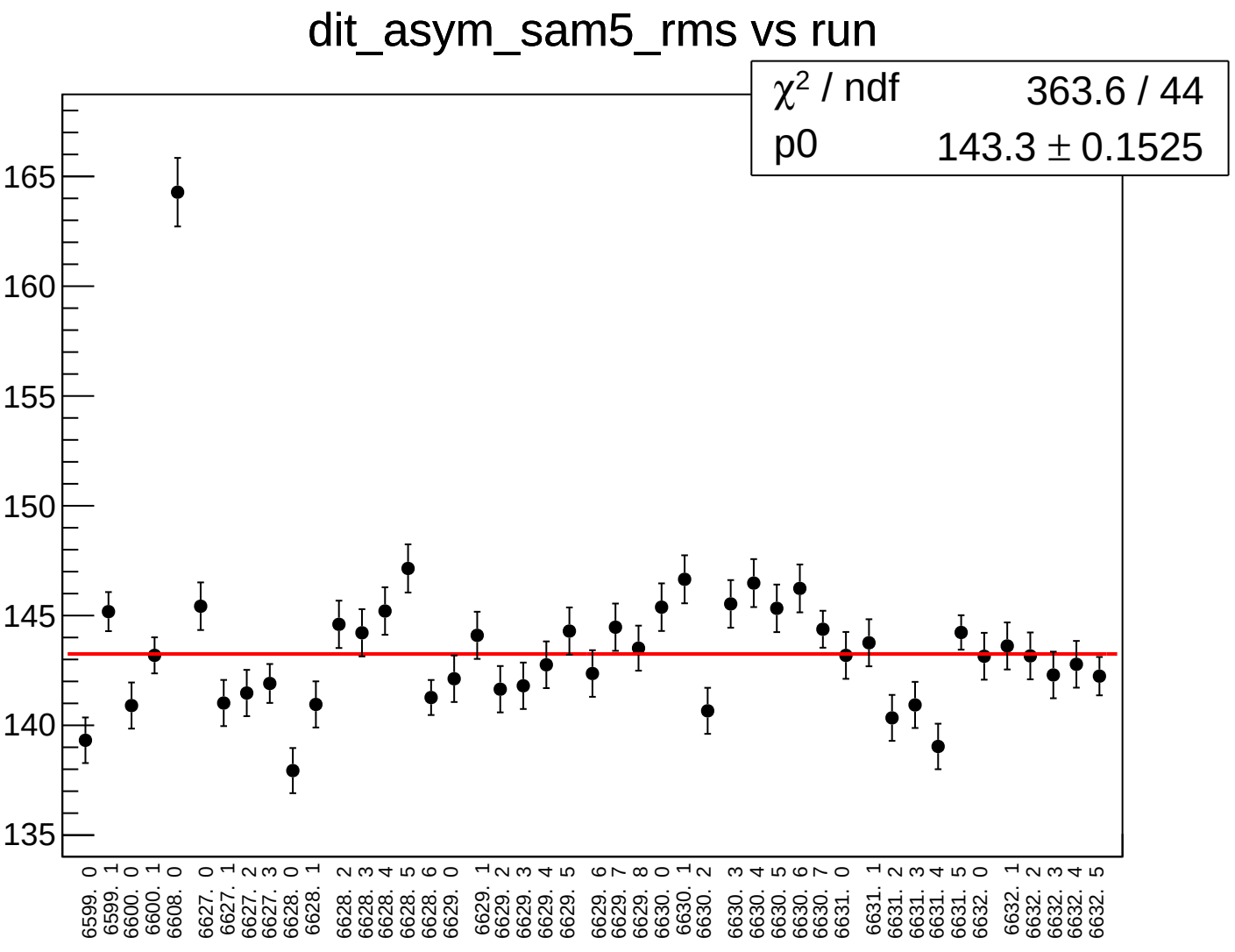
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 892.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.002851
Std Dev 0.9236
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam5_rms vs run
χ² / ndf 363.6 / 44
p0 143.3 ± 0.1525
165
160
155
150
145
140
135
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 4
6628. 5
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6629. 0
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6632. 0
6632. 1
6632. 2
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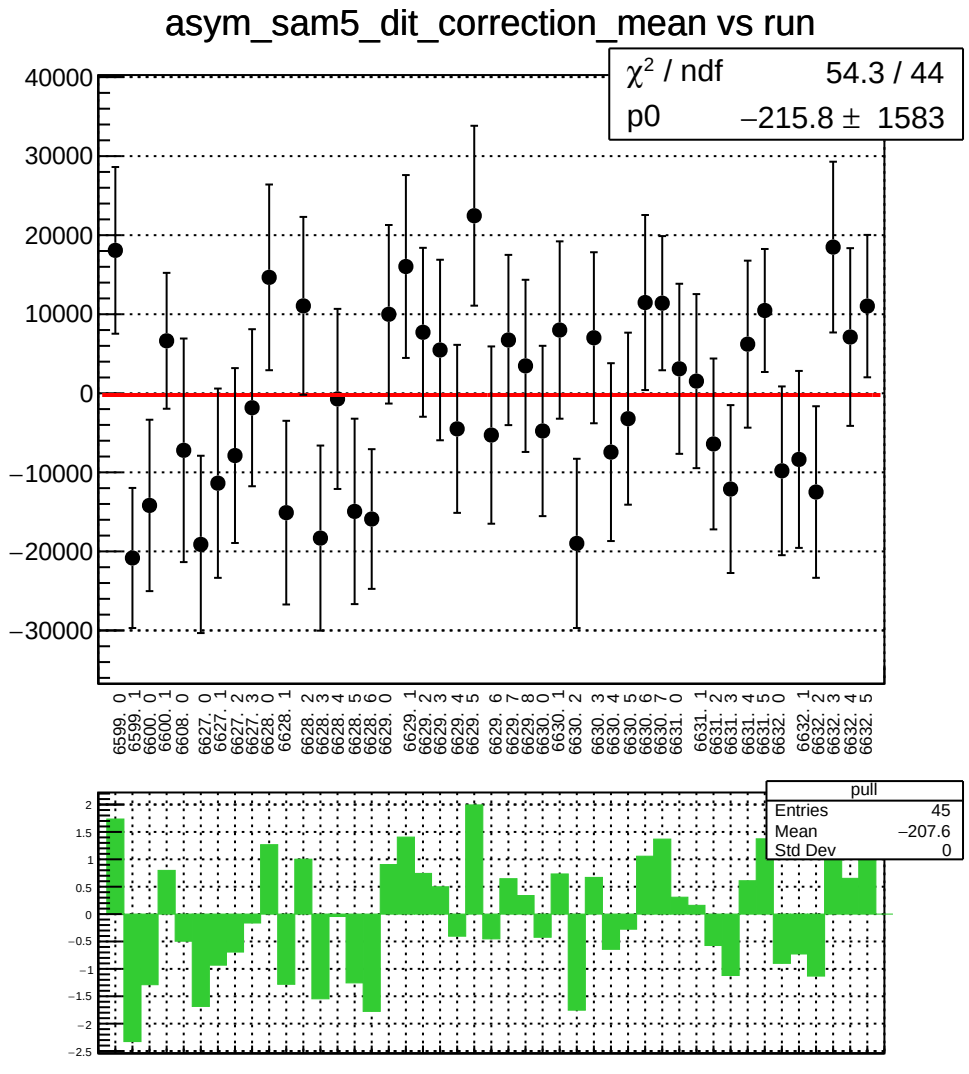
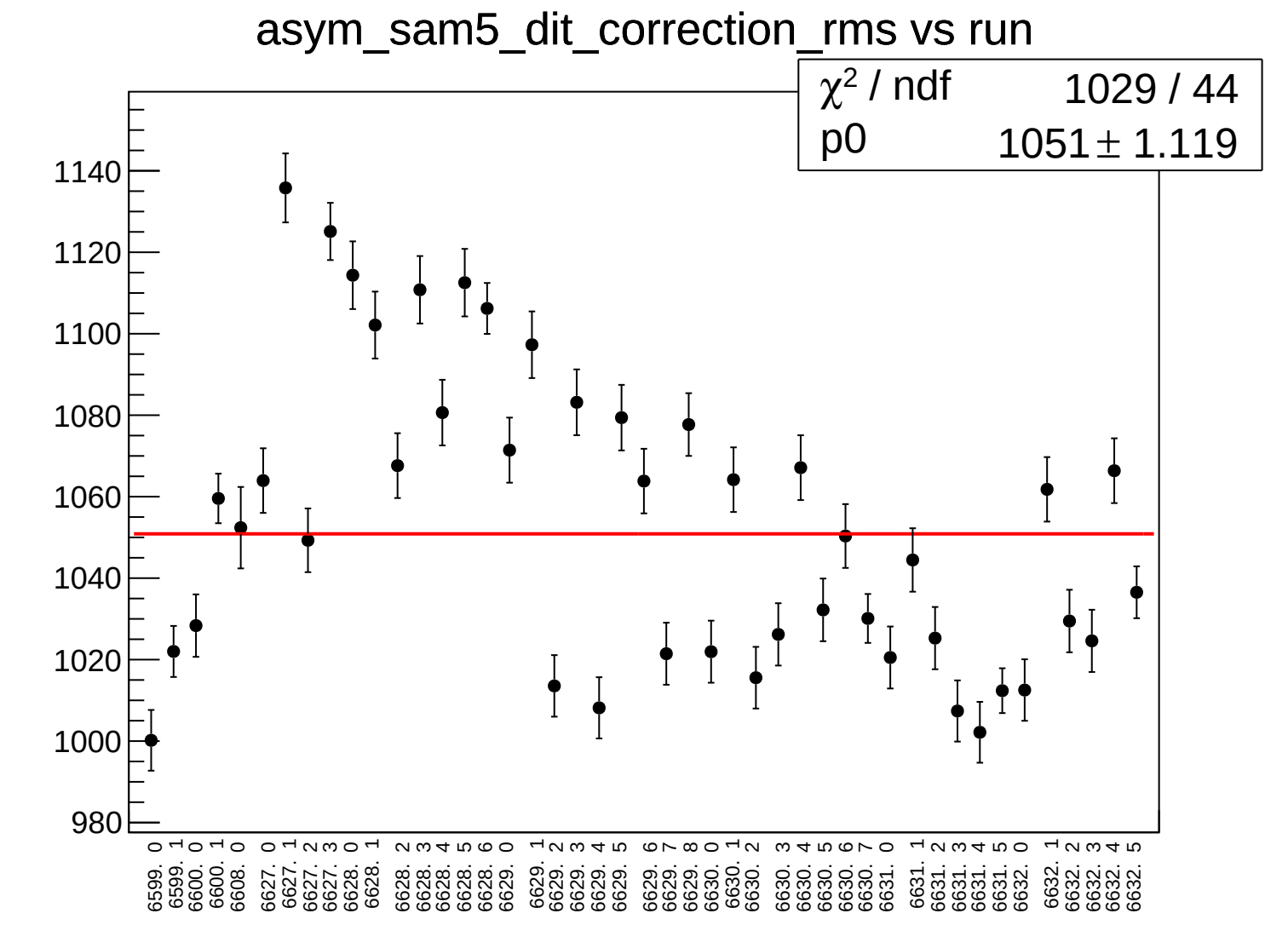
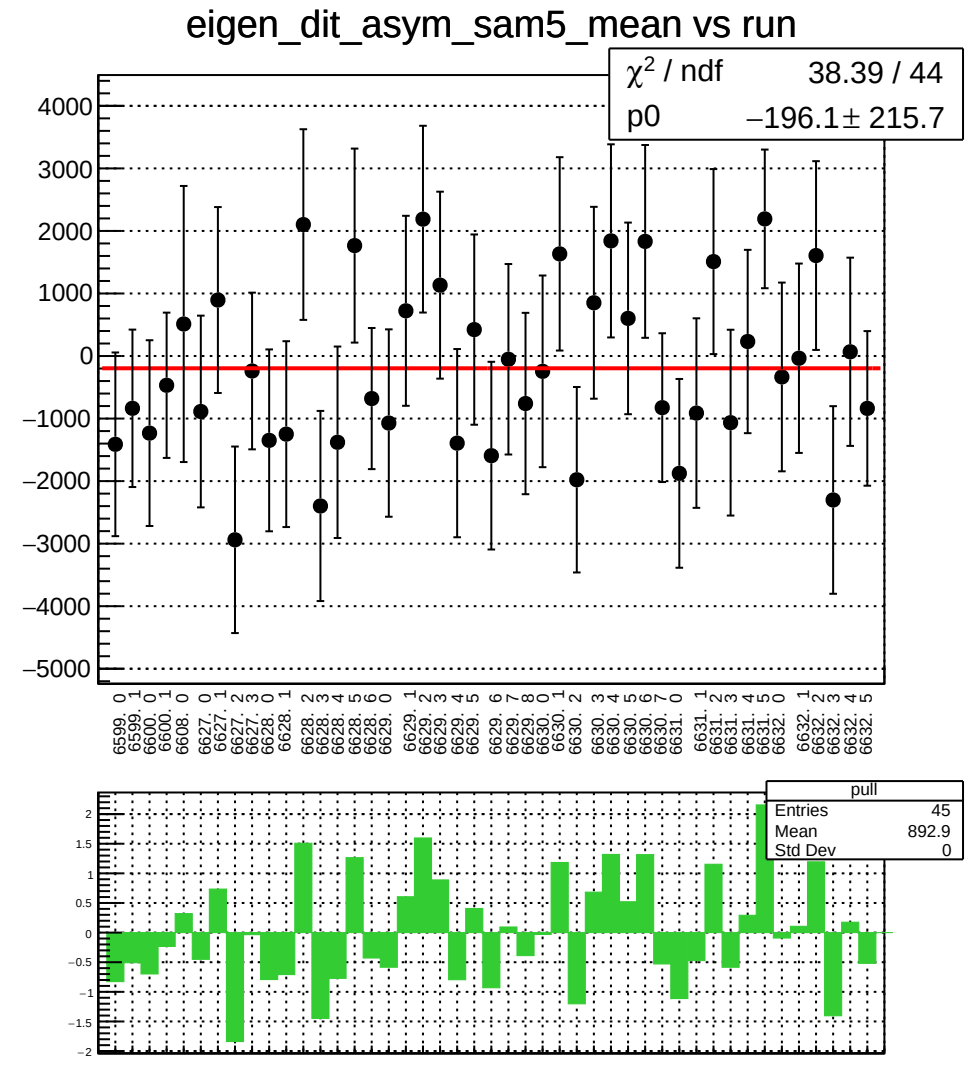
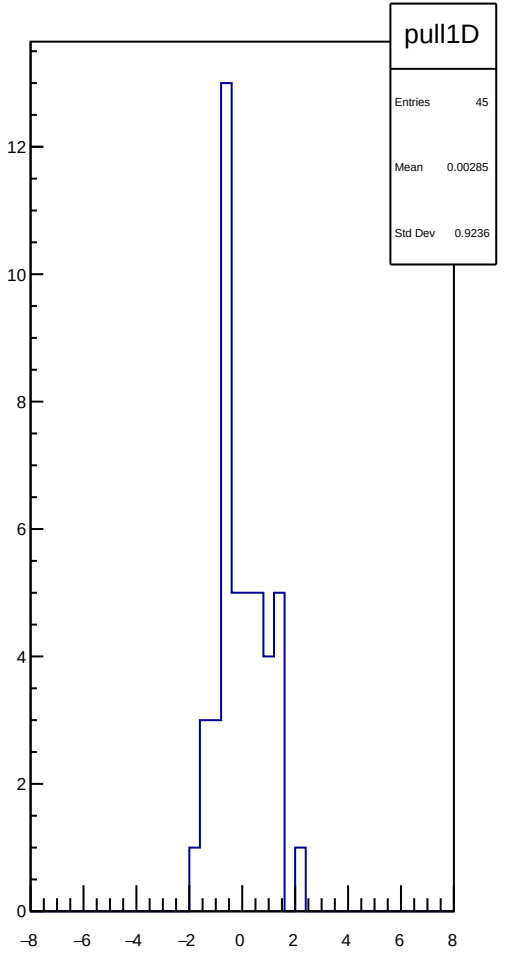
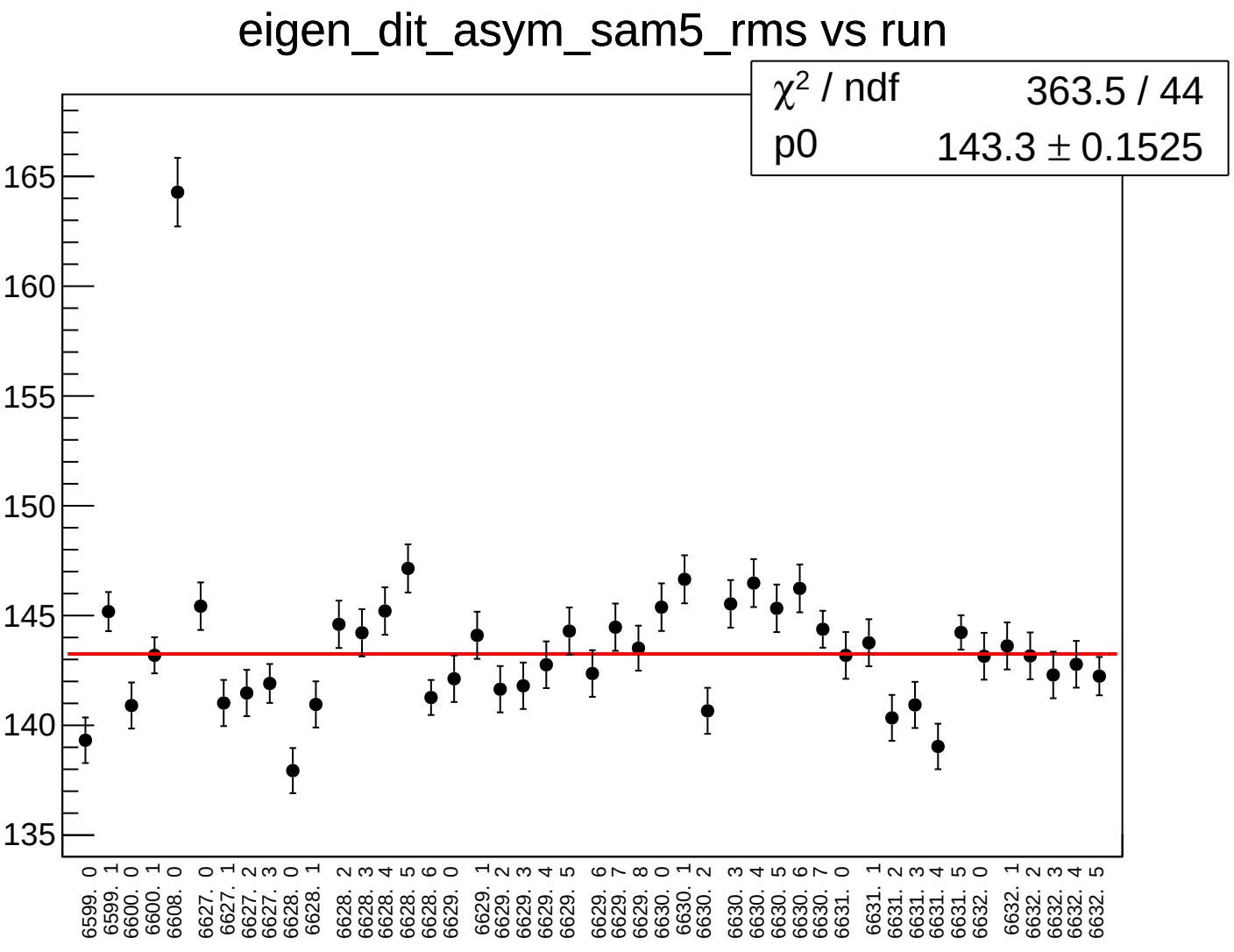
6632. 4
6632. 5

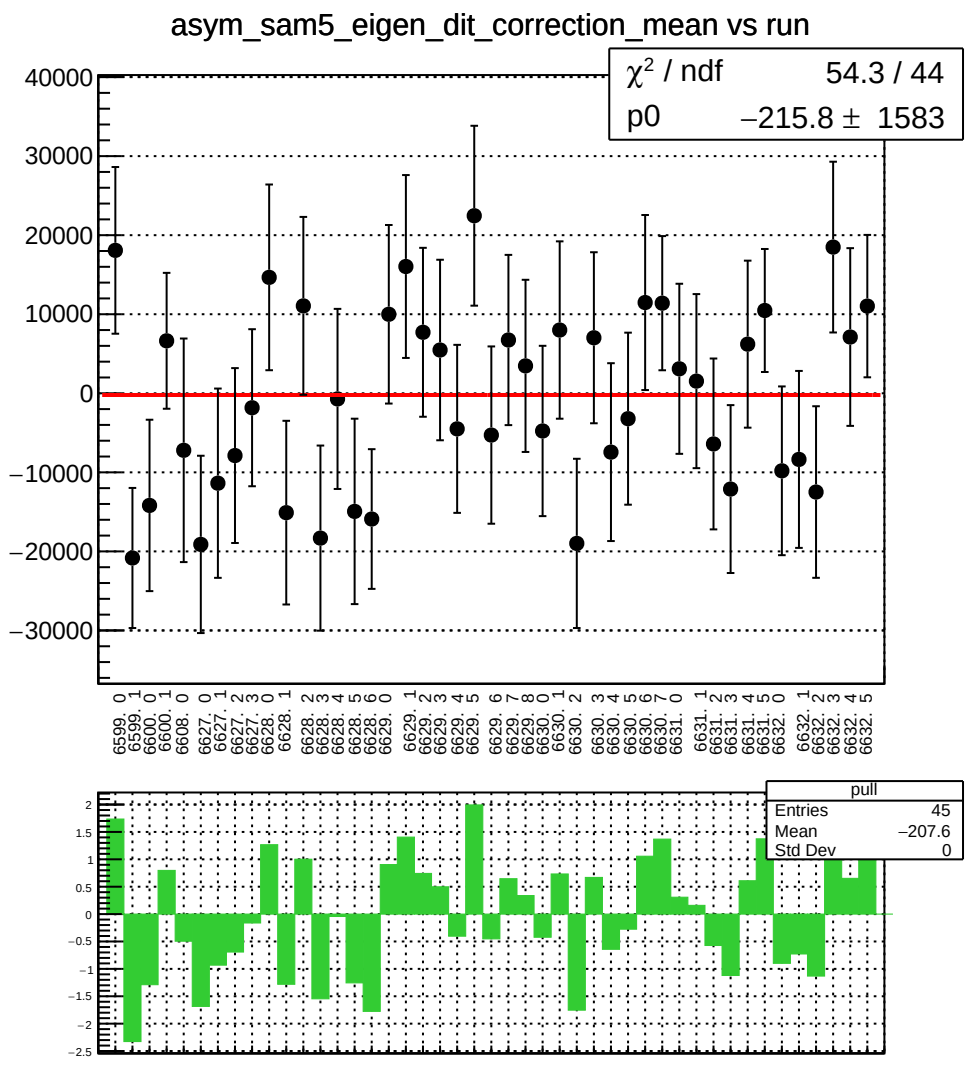

asym_sam5_dit_correction_mean vs run
χ² / ndf 54.3 / 44
p0 −215.8 ± 1583
40000
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −207.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.01434
Std Dev 1.098
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

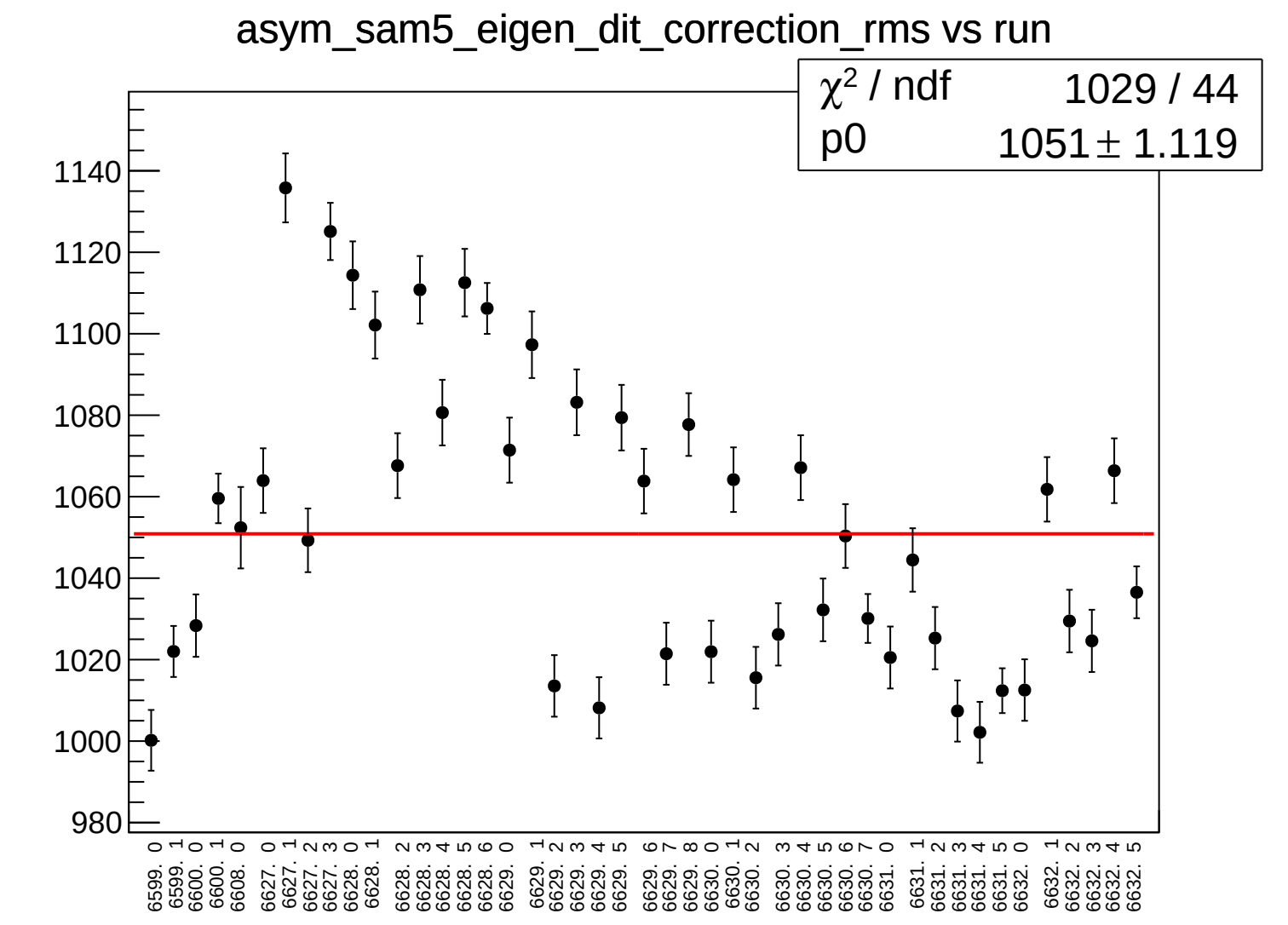

asym_sam5_dit_correction_rms vs run
χ² / ndf 1029 / 44
p0 1051 ± 1.119
1140
1120
1100
1080
1060
1040
1020
1000
980
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

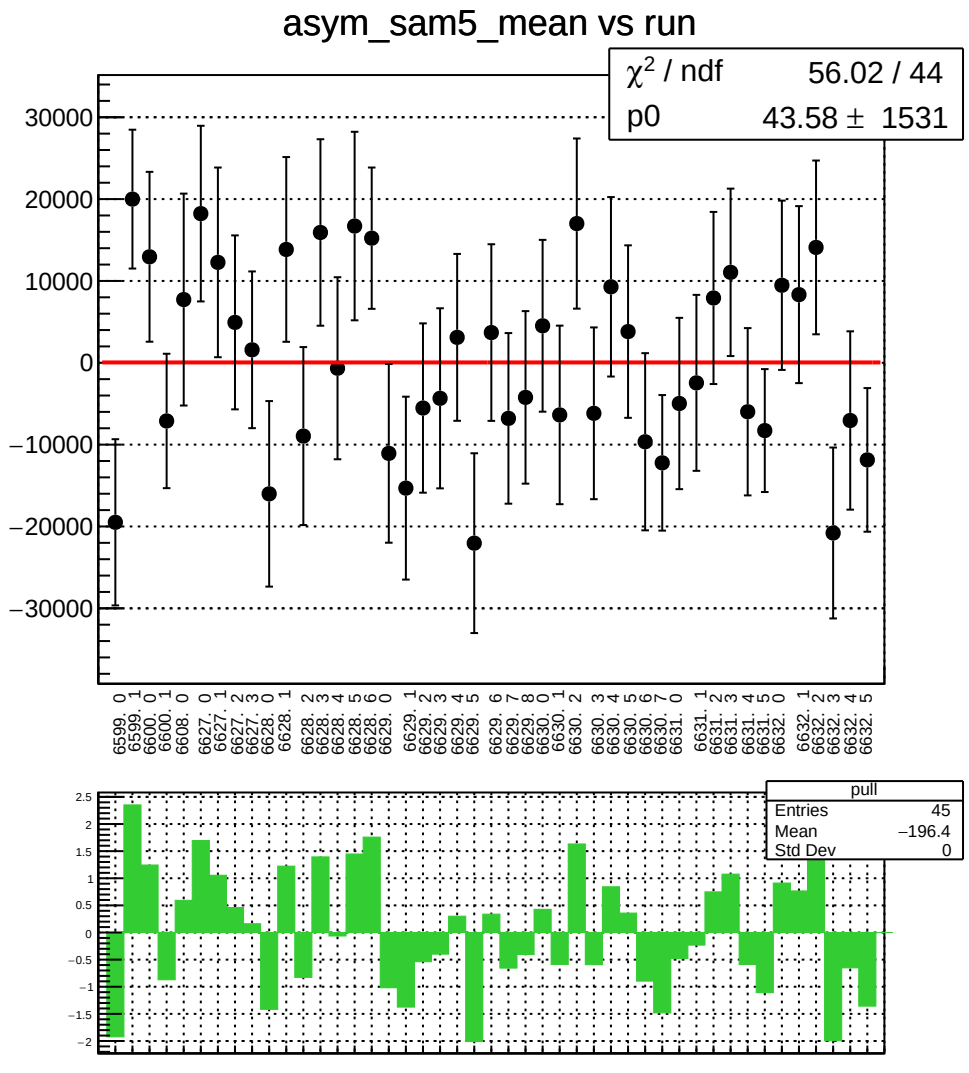

eigen_dit_asym_sam5_mean vs run
χ² / ndf 38.39 / 44
p0 −196.1± 215.7
pull
Entries 45
Mean 892.9
Std Dev 0

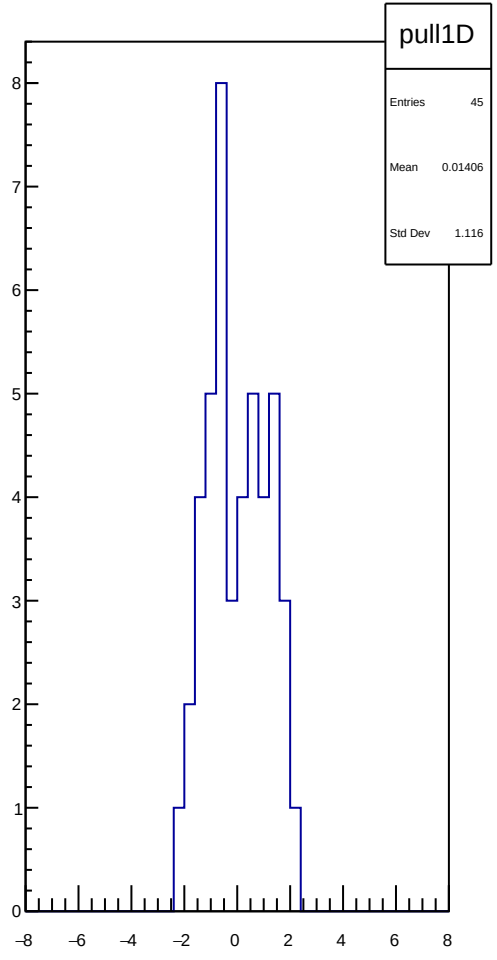

pull1D
Entries 45
Mean 0.00285
Std Dev 0.9236

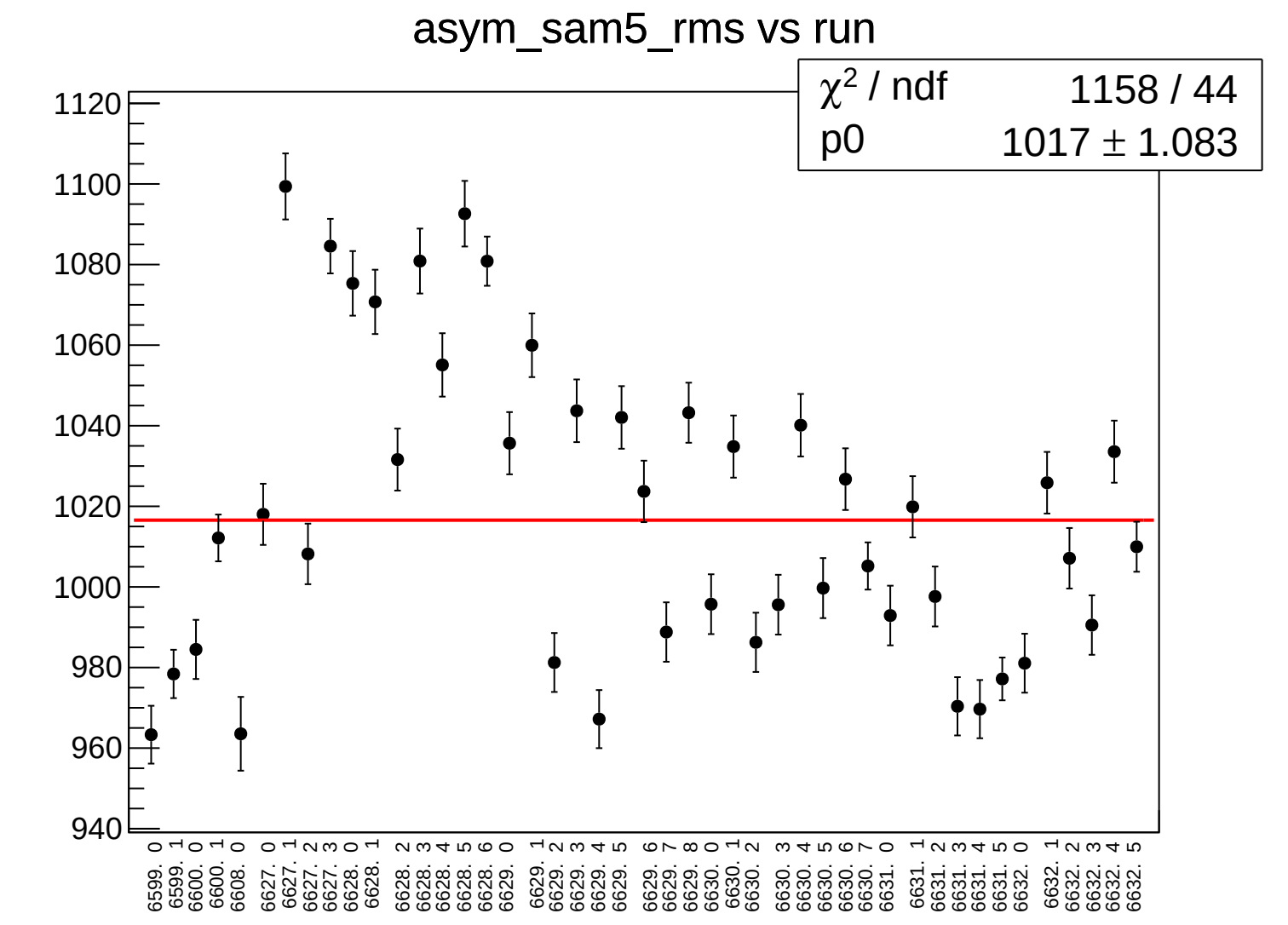

eigen_dit_asym_sam5_rms vs run
χ² / ndf 363.5 / 44
p0 143.3 ± 0.1525
165
160
155
150
145
140
135
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

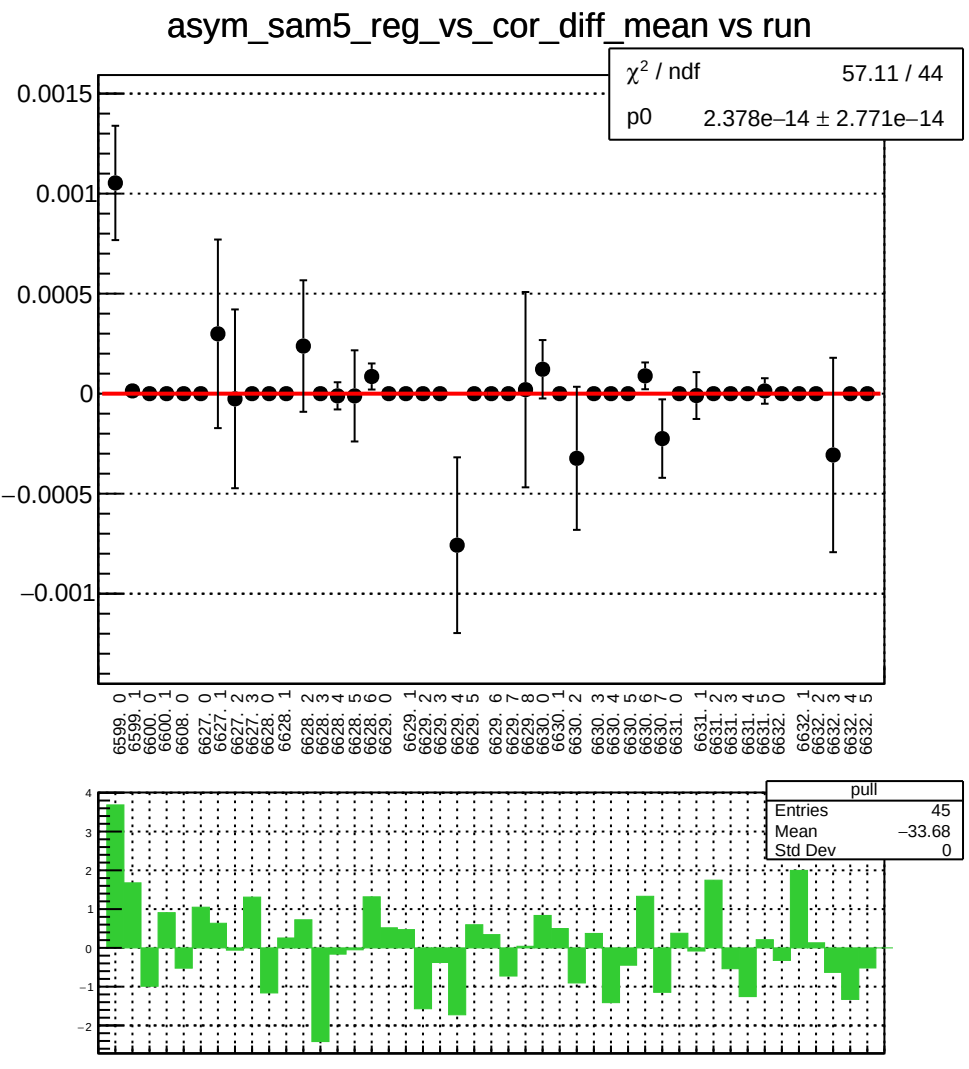

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 54.3 / 44
p0 −215.8 ± 1583
40000
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −207.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.01434
Std Dev 1.098
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

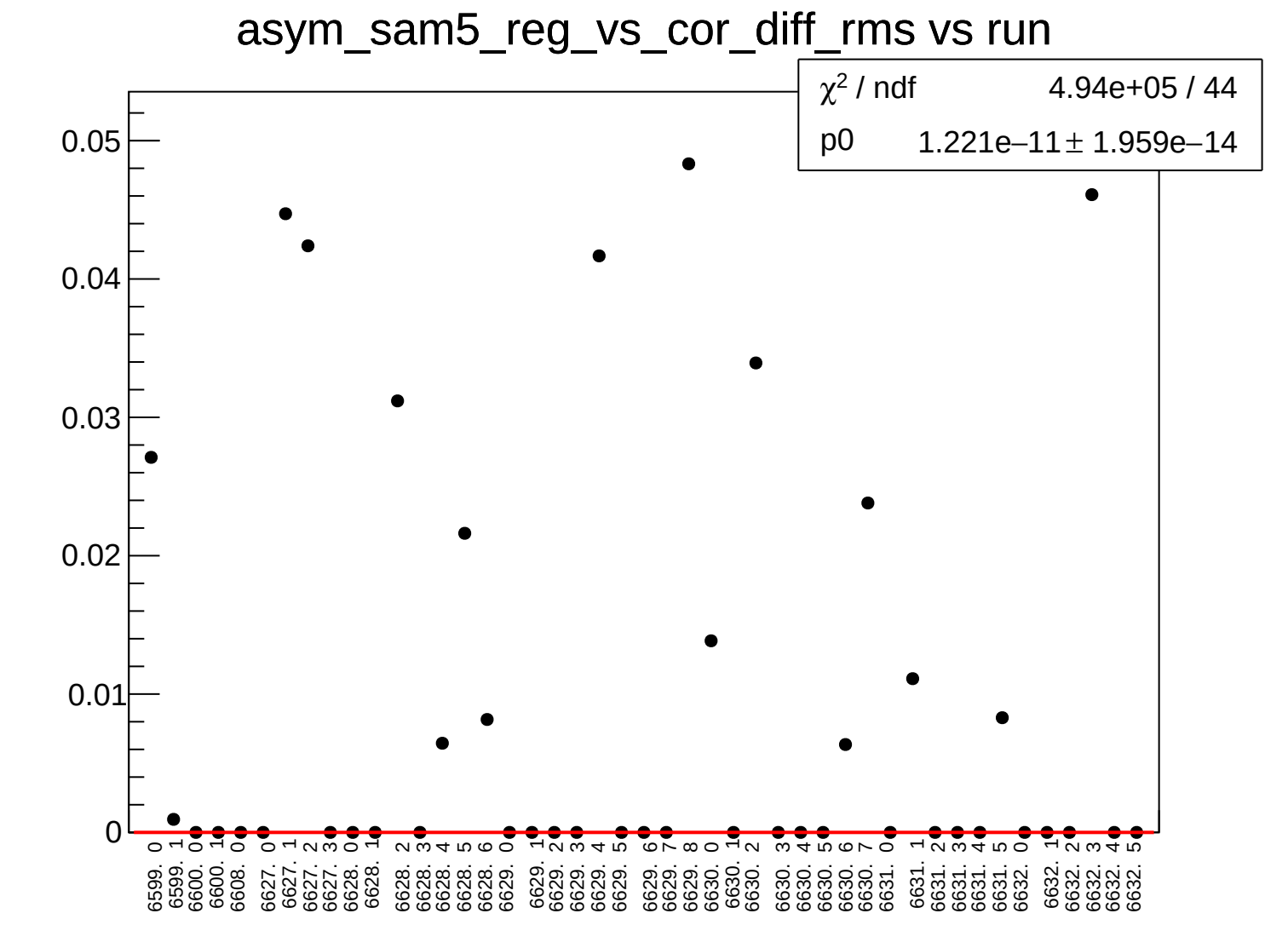

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 1029 / 44
p0 1051 ± 1.119
1140
1120
1100
1080
1060
1040
1020
1000
980
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

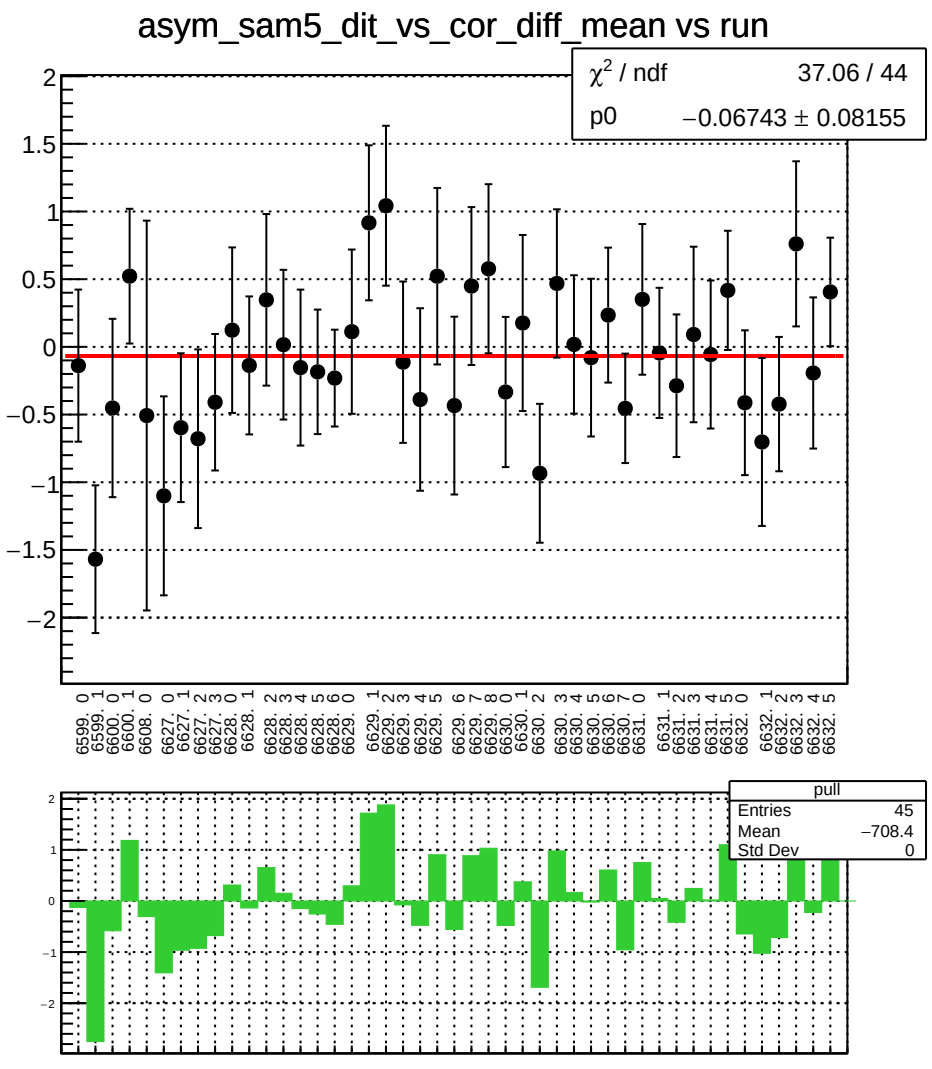

asym_sam5_mean vs run
χ² / ndf 56.02 / 44
p0 43.58 ± 1531
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −196.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

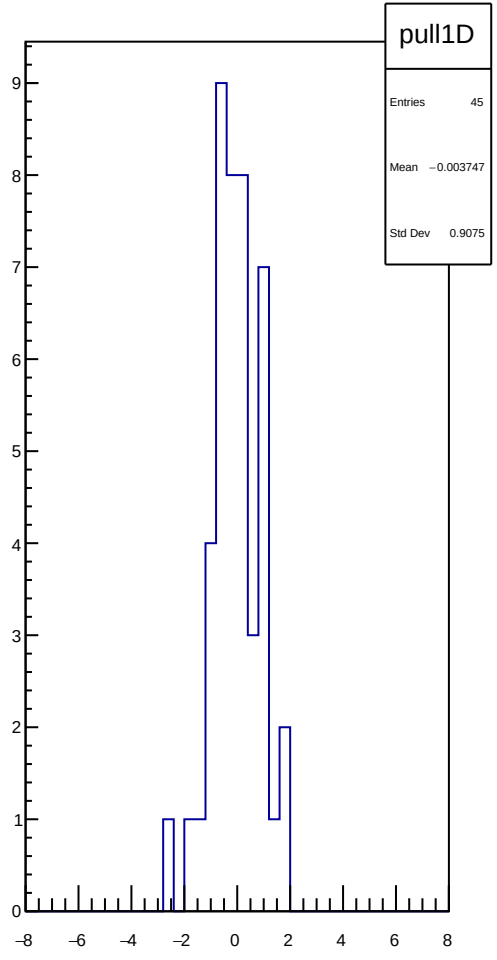

pull1D
Entries 45
Mean 0.01406
Std Dev 1.116
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

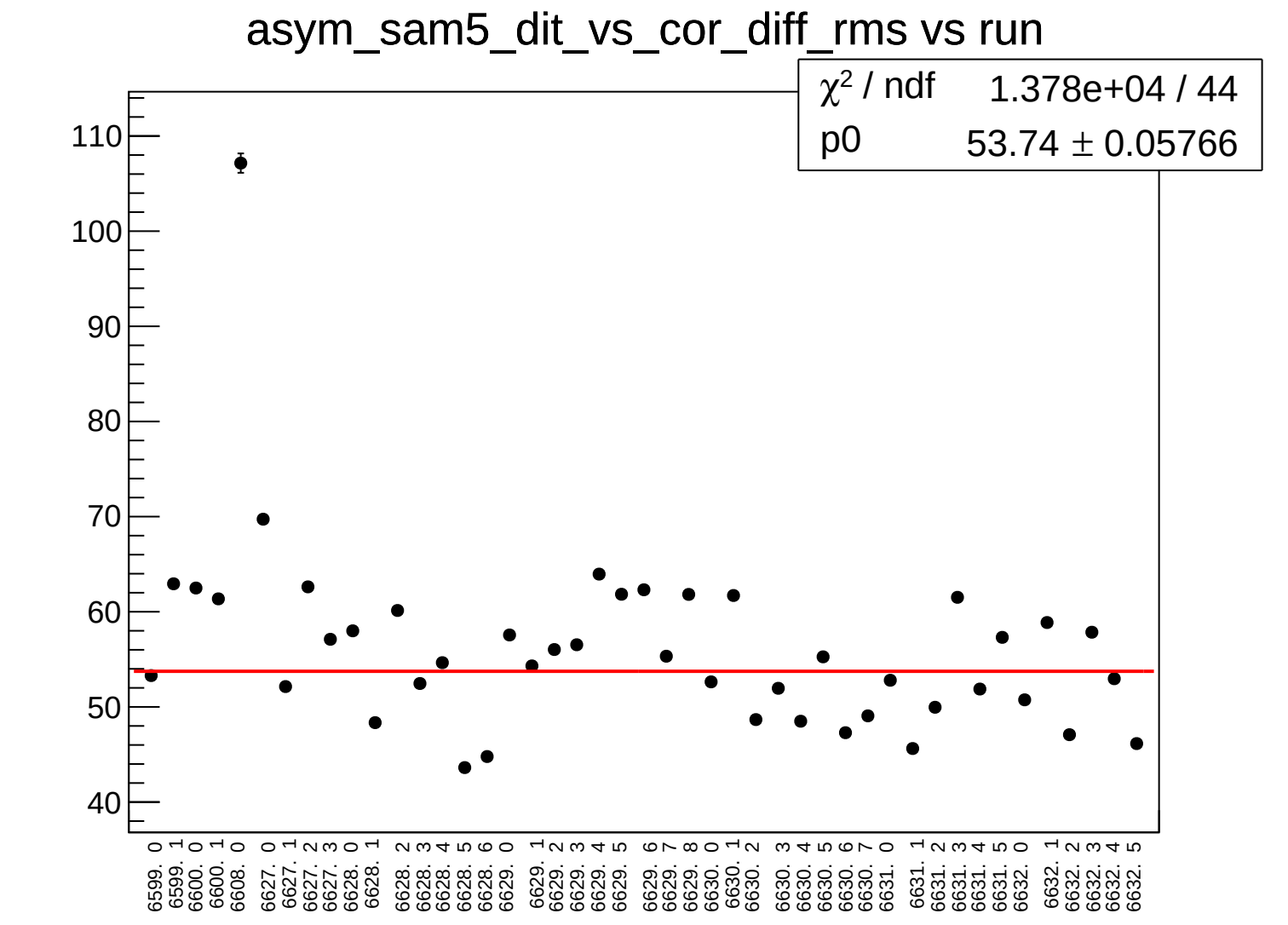

asym_sam5_rms vs run
χ² / ndf 1158 / 44
p0 1017 ± 1.083
1120
1100
1080
1060
1040
1020
1000
980
960
940
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 57.11 / 44
p0 2.378e−14 ± 2.771e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −33.68
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.05995
Std Dev 1.125
7
6
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 4.94e+05 / 44
p0 1.221e−11 ± 1.959e−14
0.05
0.04
0.03
0.02
0.01
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 37.06 / 44
p0 −0.06743 ± 0.08155
pull
Entries 45
Mean −708.4
Std Dev 0


pull1D
Entries 45
Mean −0.003747
Std Dev 0.9075


asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 1.378e+04 / 44
p0 53.74 ± 0.05766
110
100
90
80
70
60
50
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
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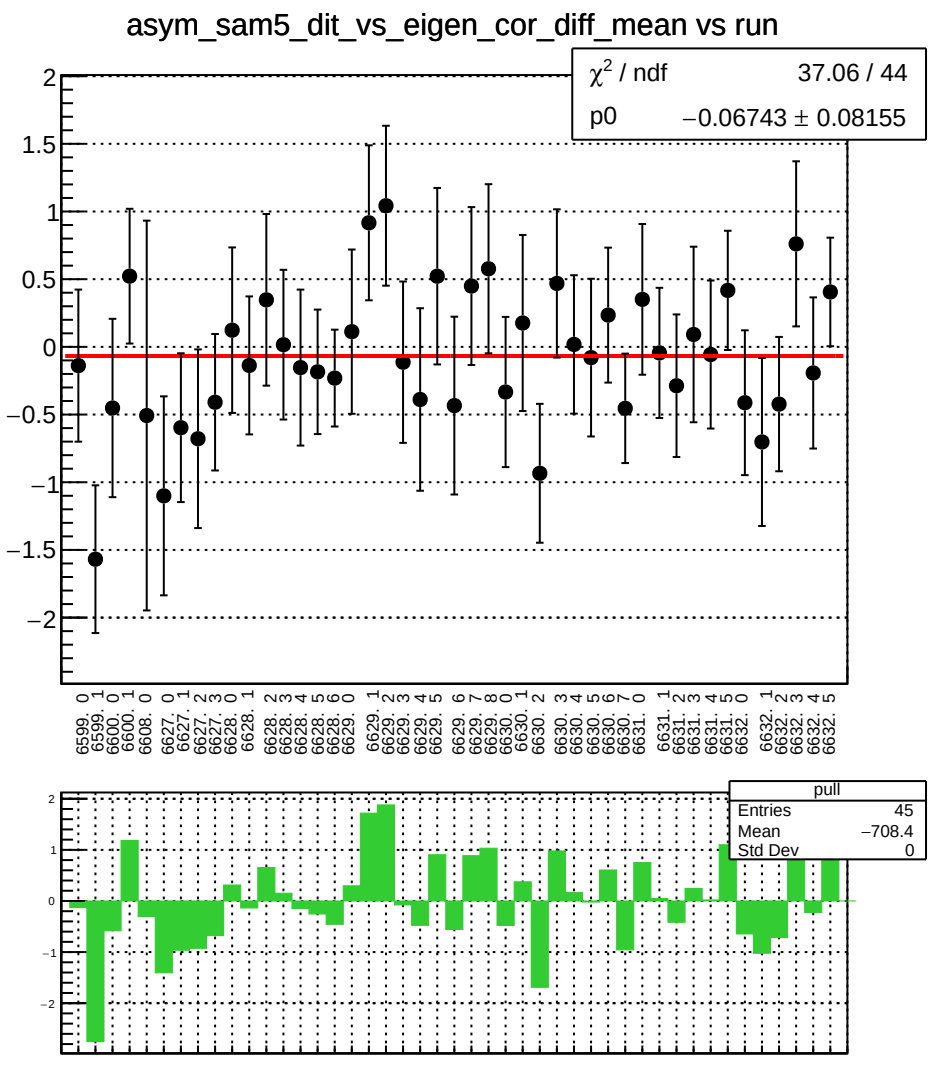
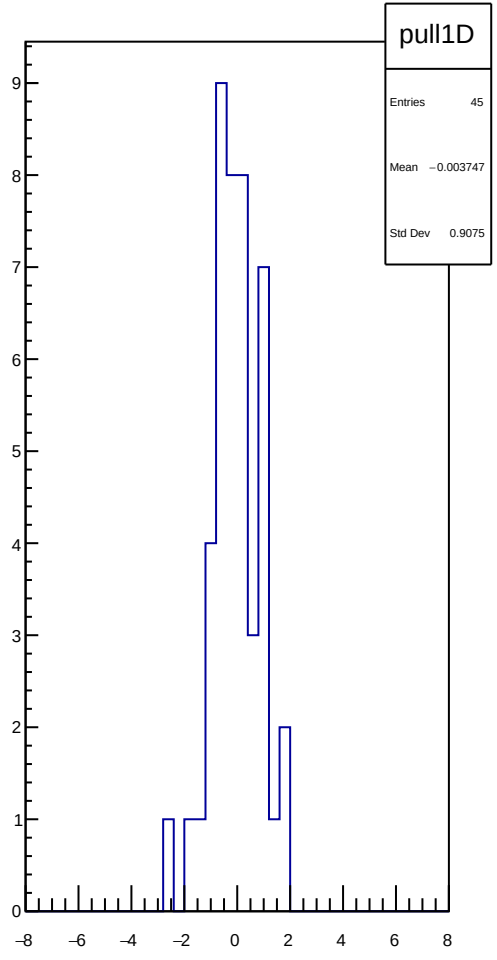
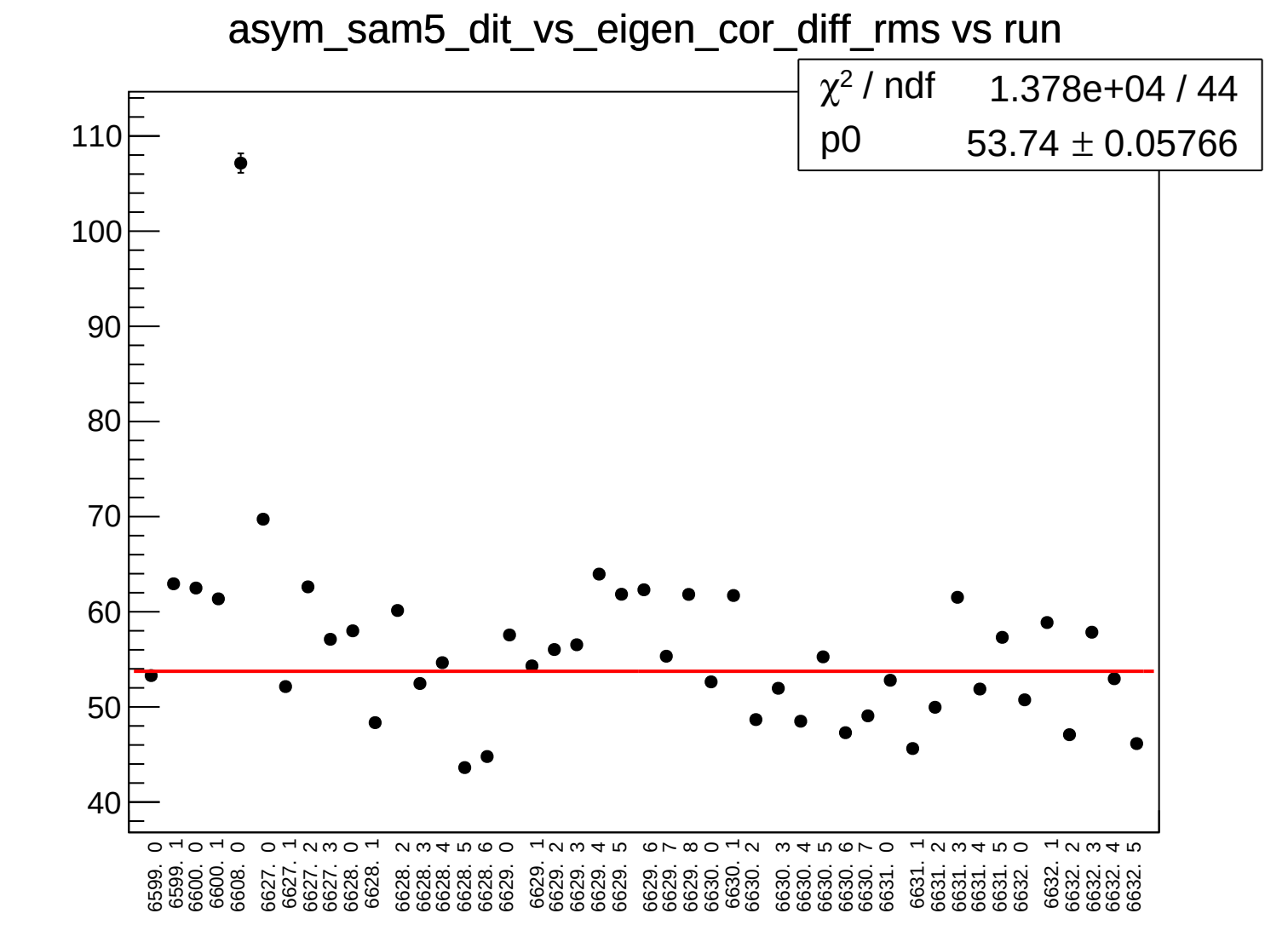
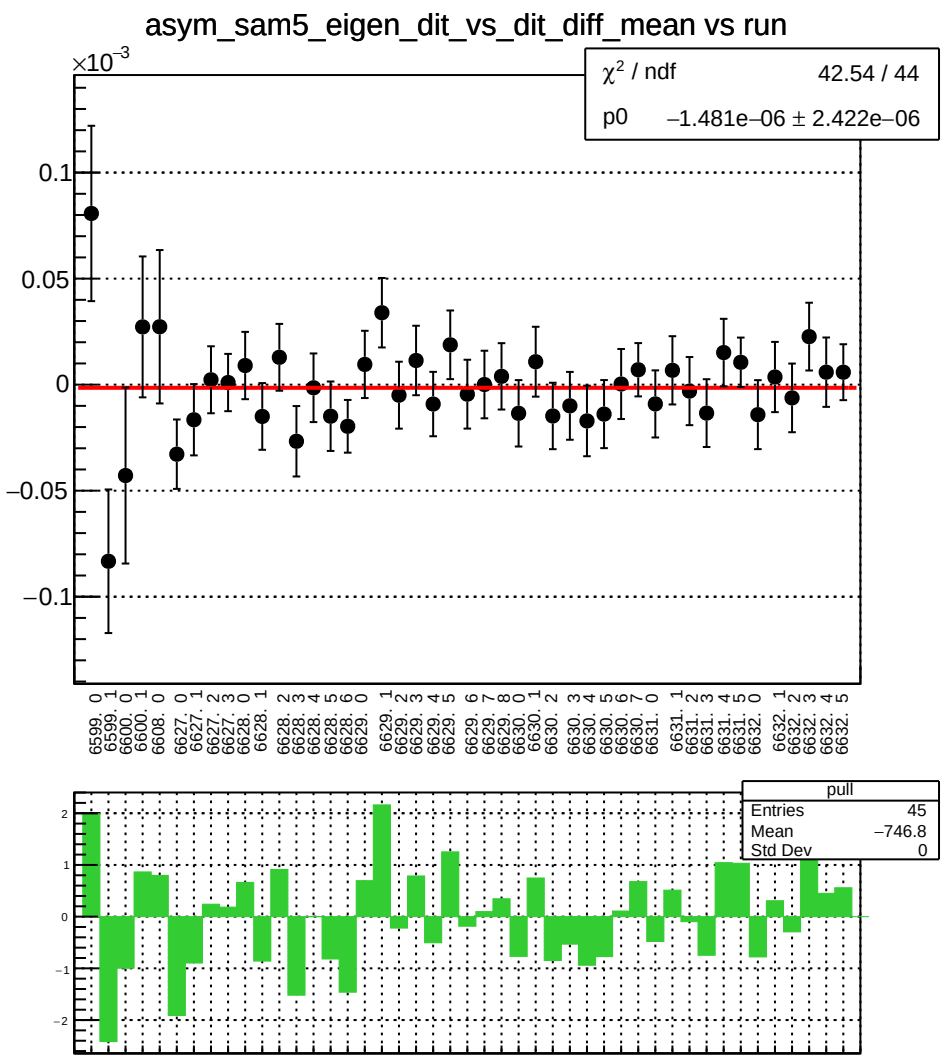
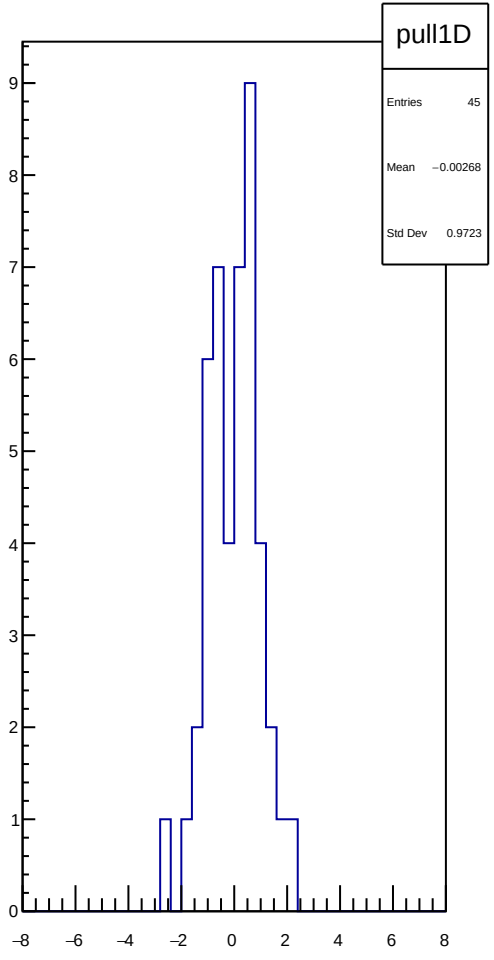
6632. 5

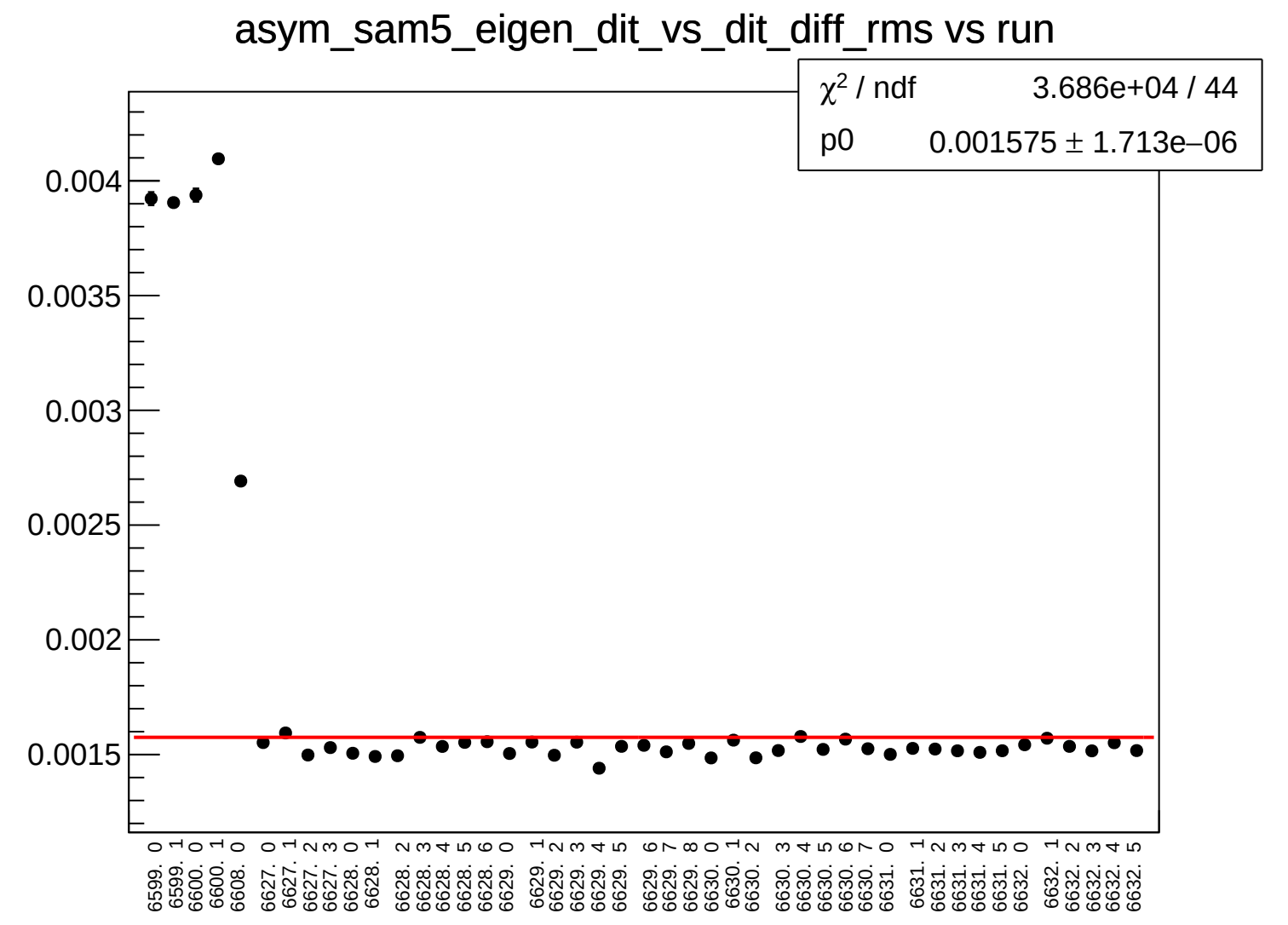

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.06 / 44
p0 −0.06743 ± 0.08155
pull
Entries 45
Mean −708.4
Std Dev 0


pull1D
Entries 45
Mean −0.003747
Std Dev 0.9075


asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.378e+04 / 44
p0 53.74 ± 0.05766
110
100
90
80
70
60
50
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 42.54 / 44
p0 −1.481e−06 ± 2.422e−06
0.1
0.05
0
−0.05
−0.1
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −746.8
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.00268
Std Dev 0.9723
9
8
7
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 3.686e+04 / 44
p0 0.001575 ± 1.713e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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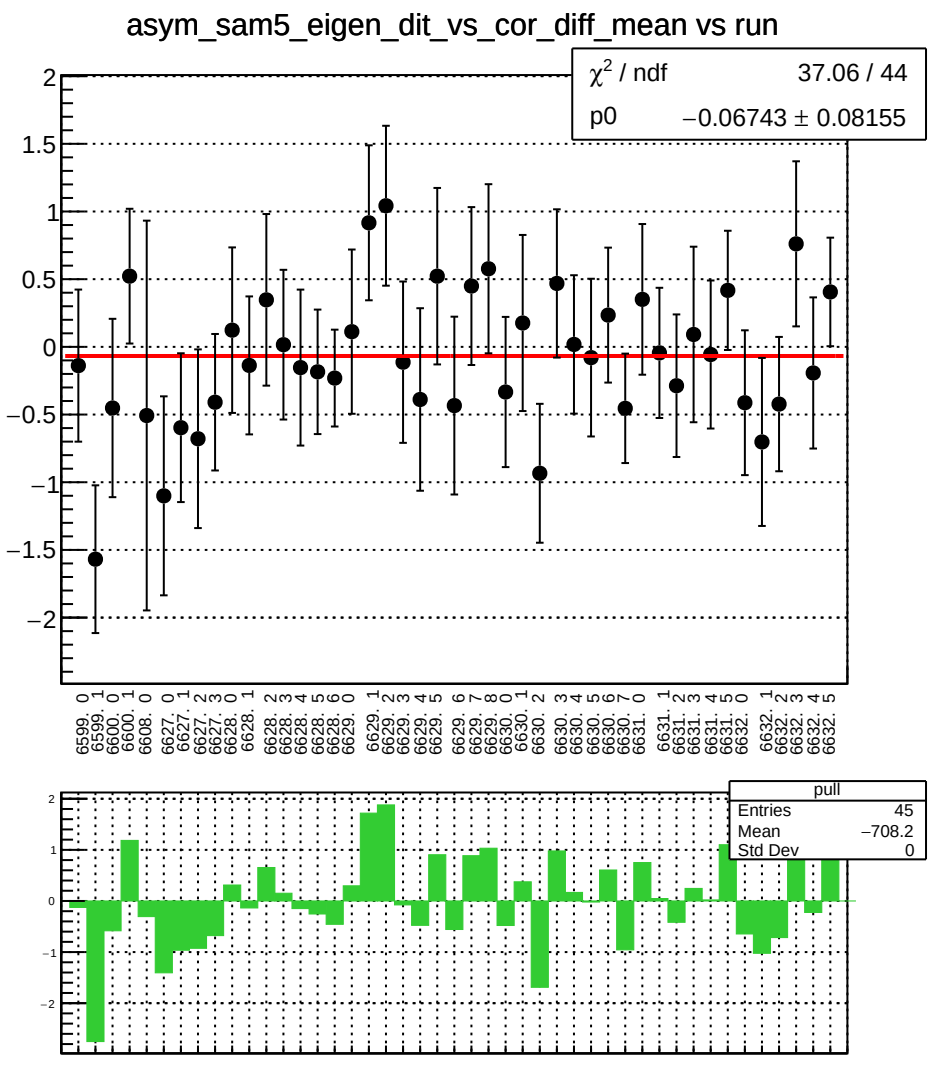
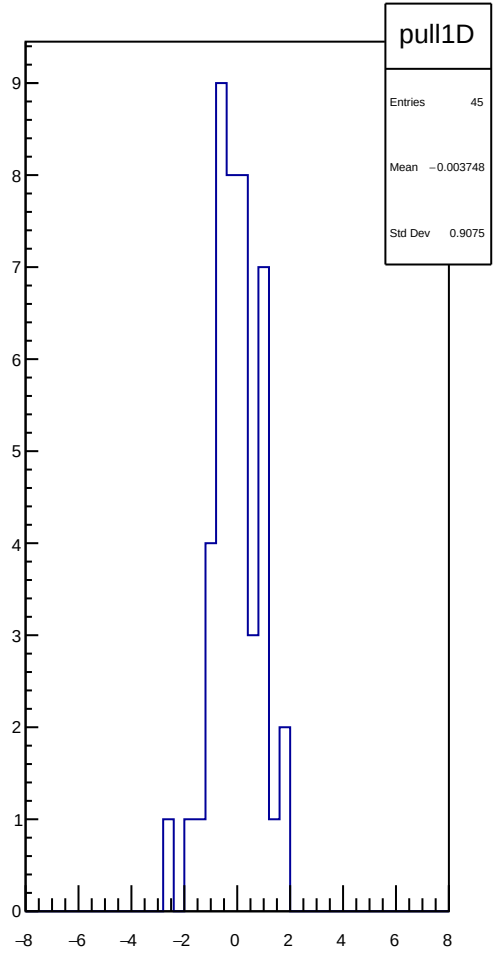
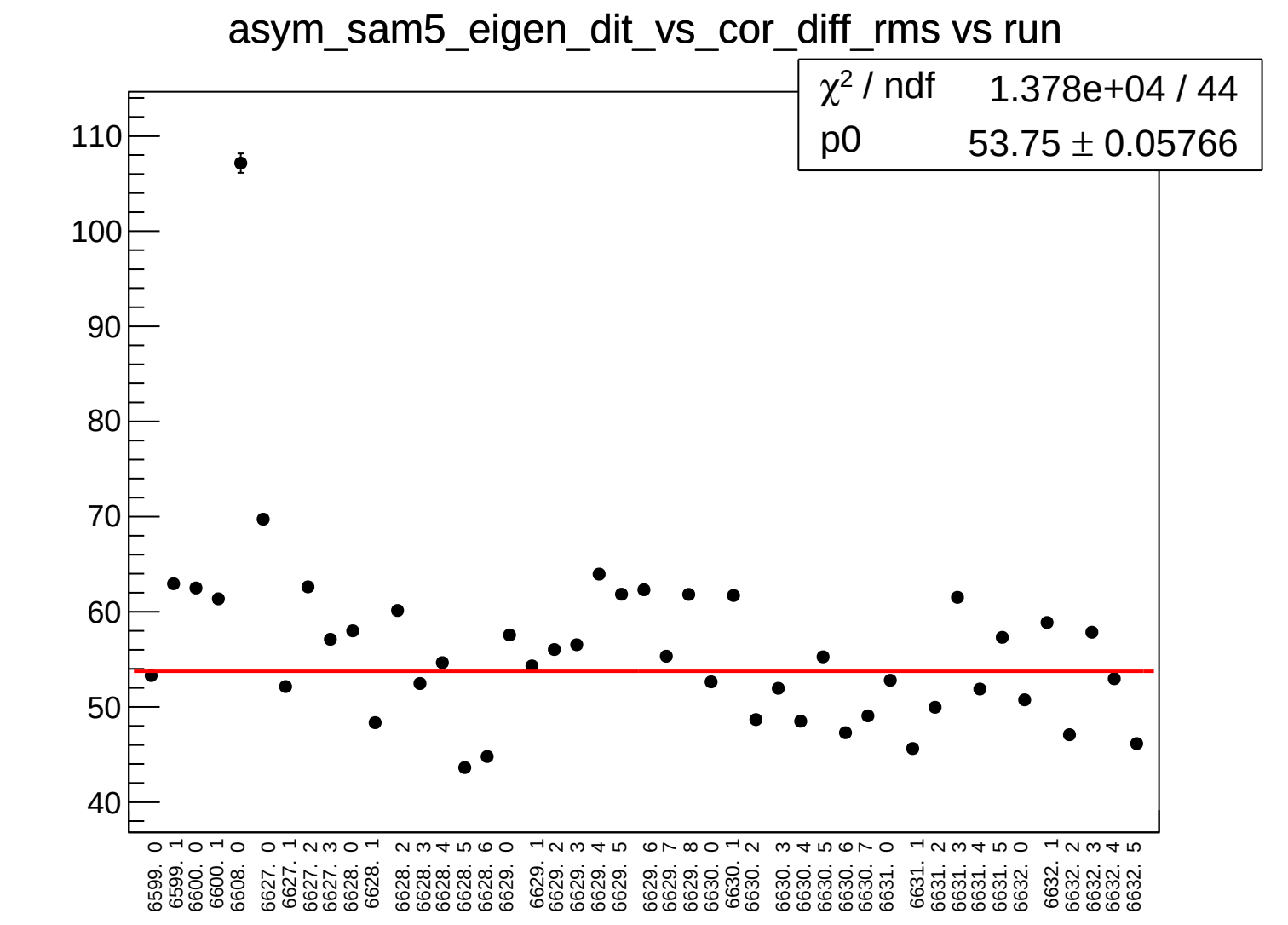

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.06 / 44
p0 −0.06743 ± 0.08155
pull
Entries 45
Mean −708.2
Std Dev 0


pull1D
Entries 45
Mean −0.003748
Std Dev 0.9075


asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.378e+04 / 44
p0 53.75 ± 0.05766
110
100
90
80
70
60
50
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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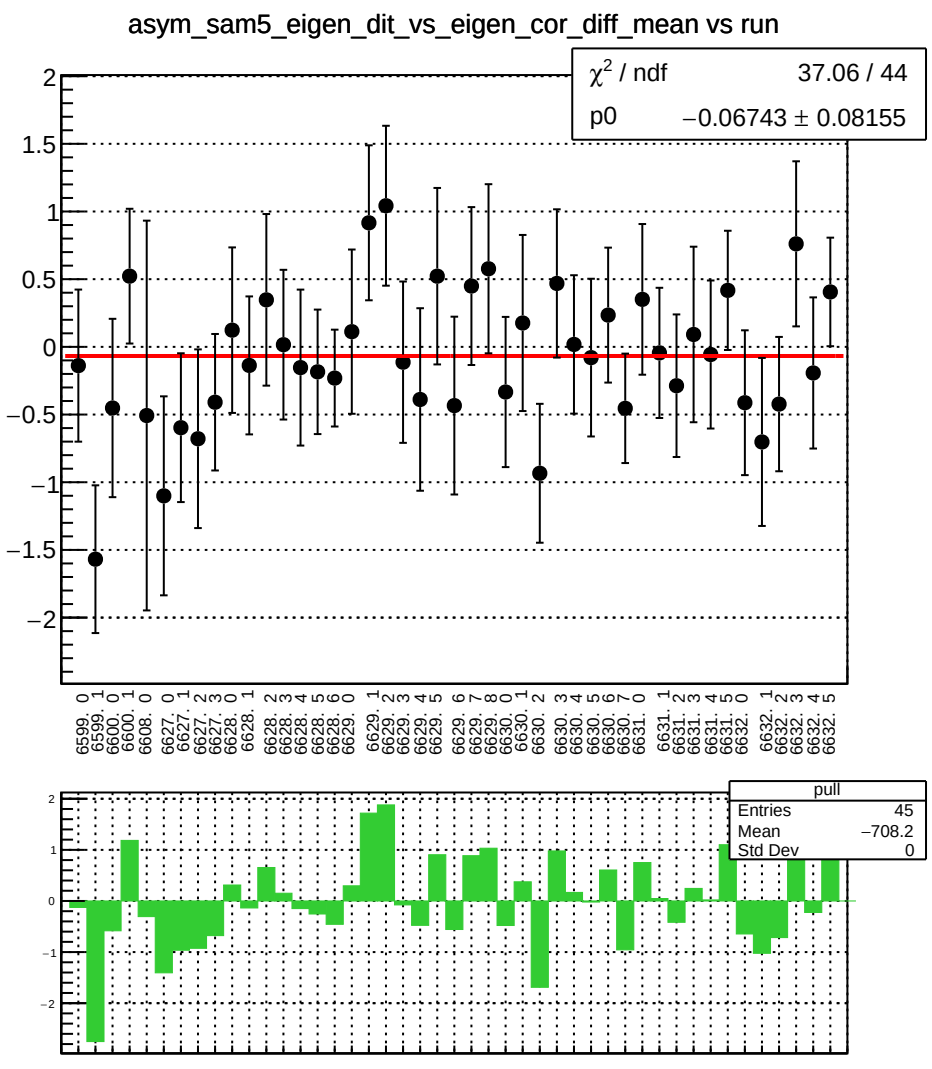
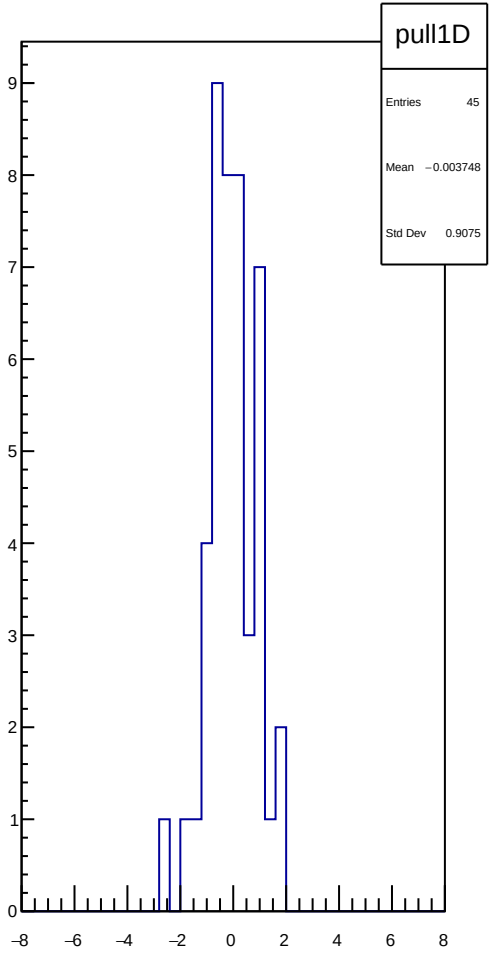
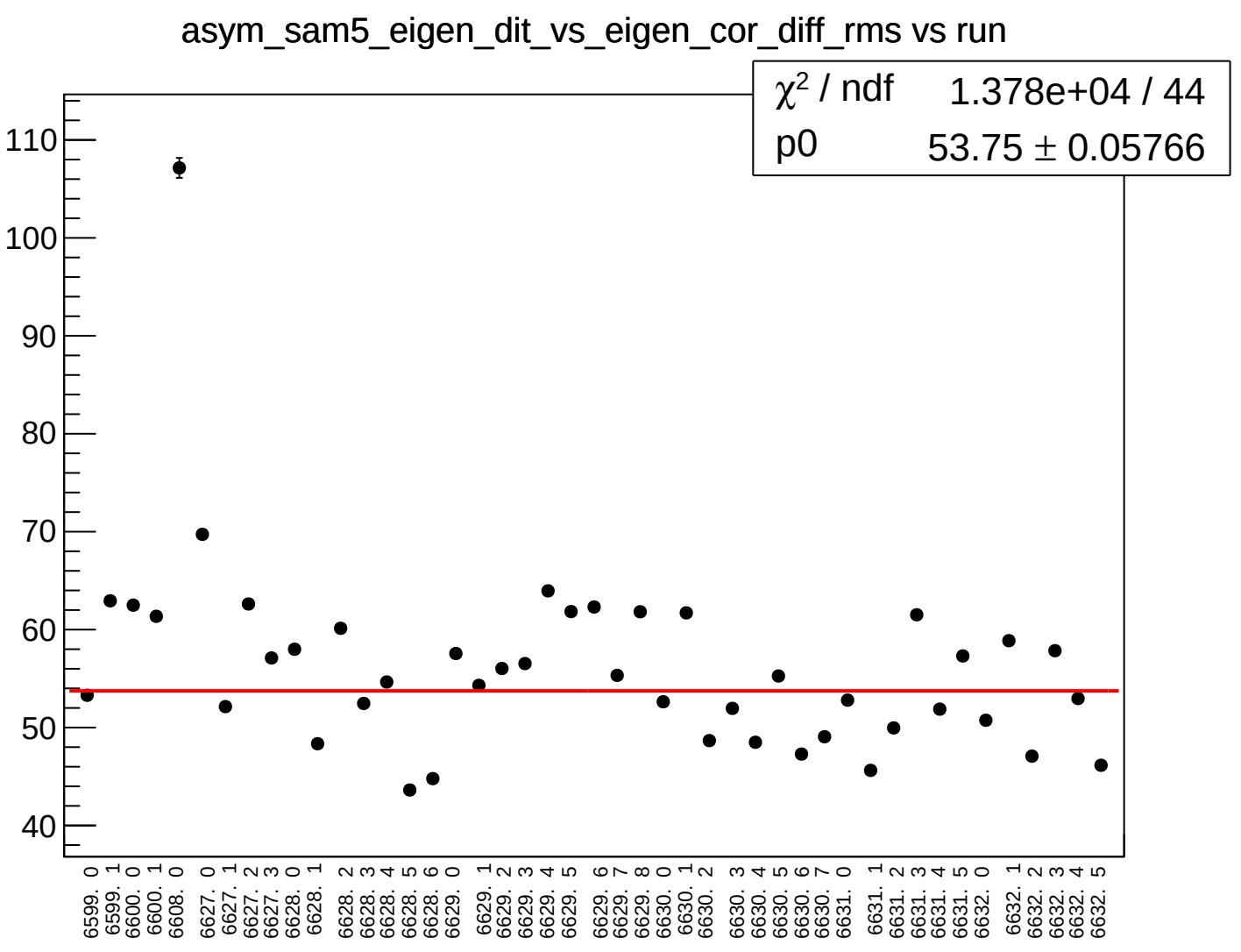
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.06 / 44
p0 −0.06743 ± 0.08155
pull
Entries 45
Mean −708.2
Std Dev 0


pull1D
Entries 45
Mean −0.003748
Std Dev 0.9075


asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.378e+04 / 44
p0 53.75 ± 0.05766
110
100
90
80
70
60
50
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
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6632. 0
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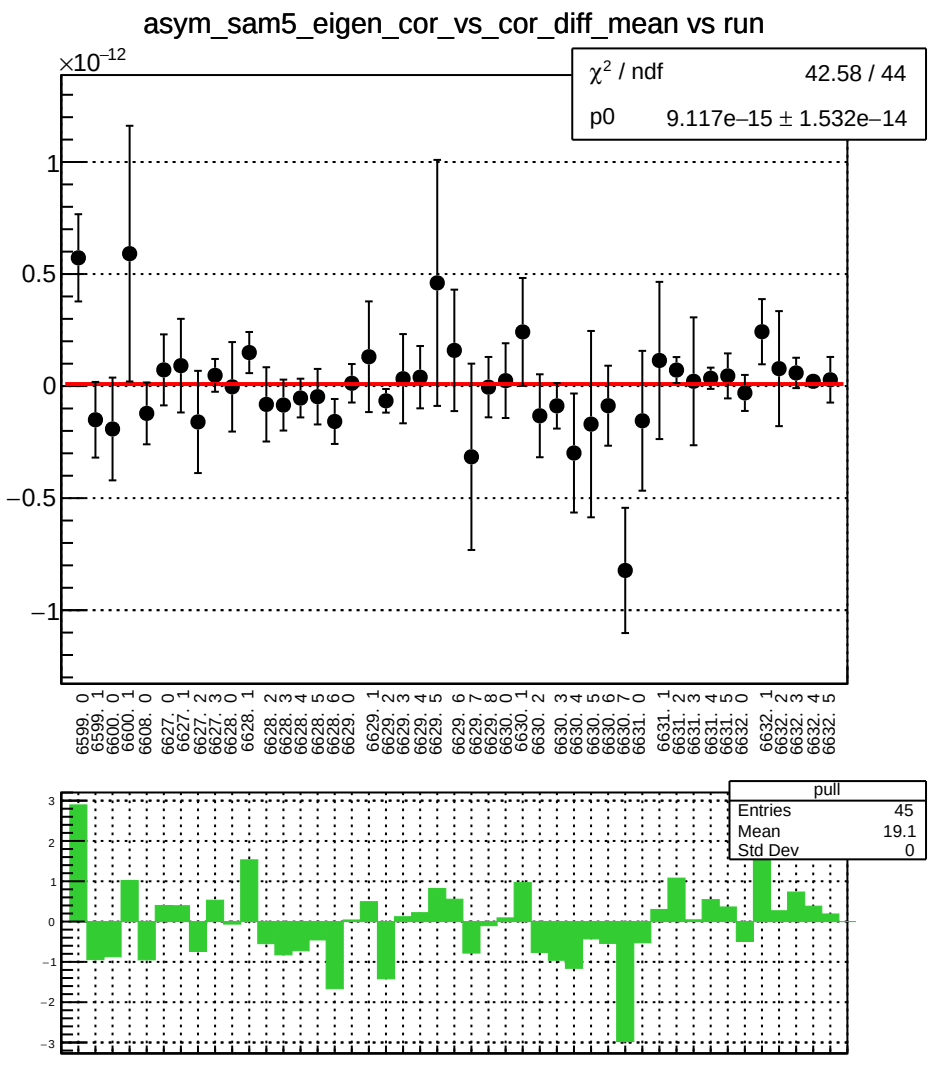
6632. 5


asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 42.58 / 44
p0 9.117e−15 ± 1.532e−14
1
0.5
0
−0.5
−1
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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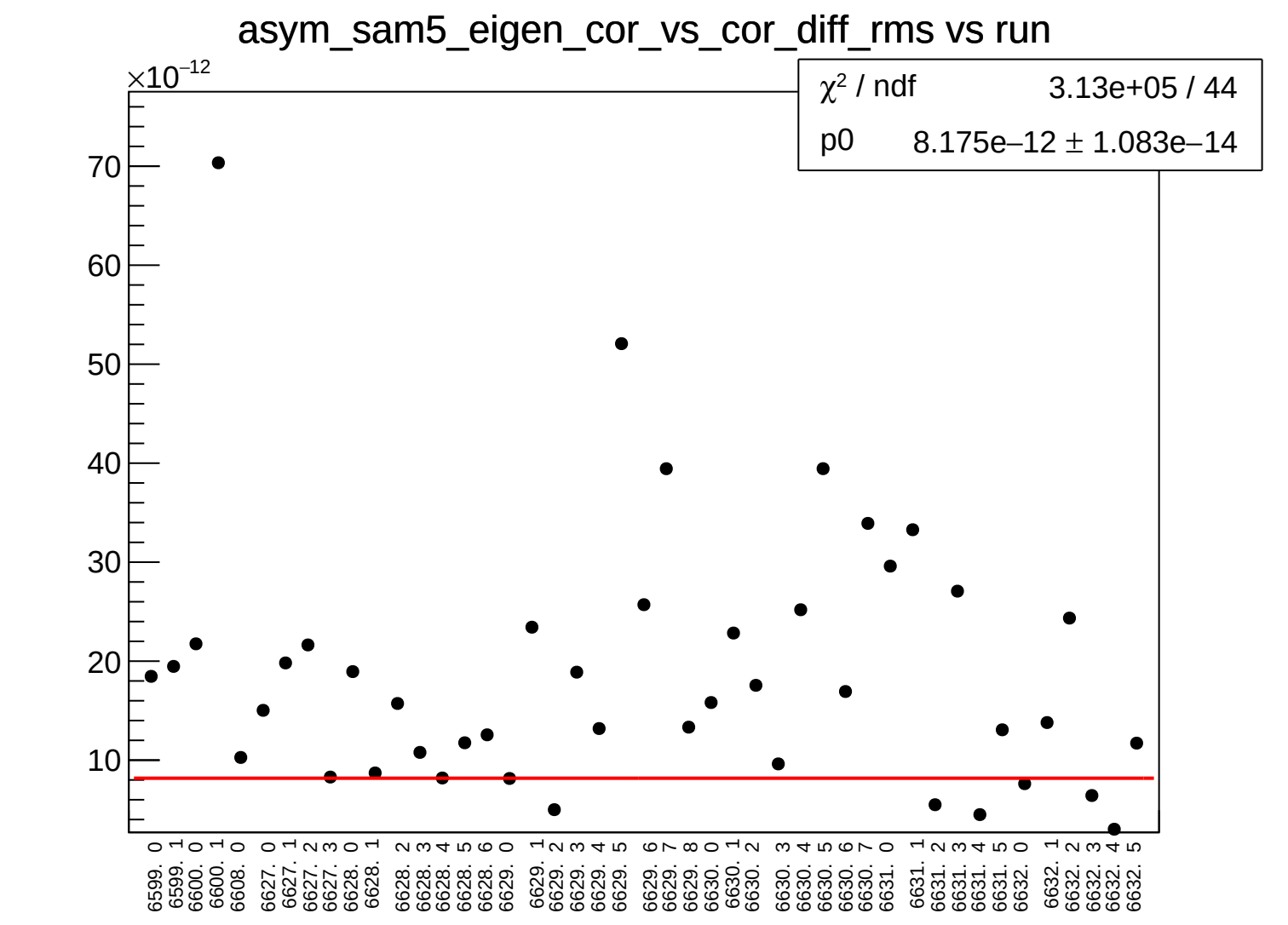
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 19.1
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.05253
Std Dev 0.9713
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.13e+05 / 44
p0 8.175e−12 ± 1.083e−14
70
60
50
40
30
20
10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
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6629. 6
6629. 7
6629. 8
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6630. 1
6630. 2
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6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
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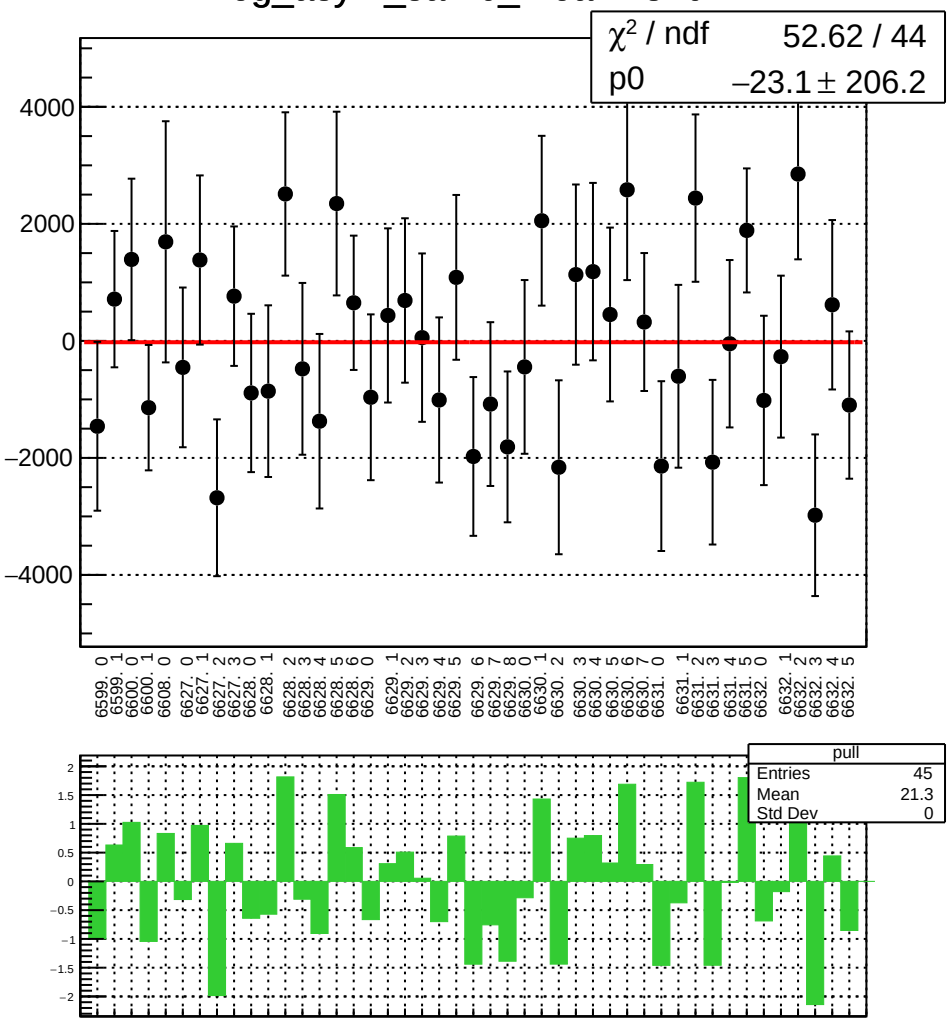
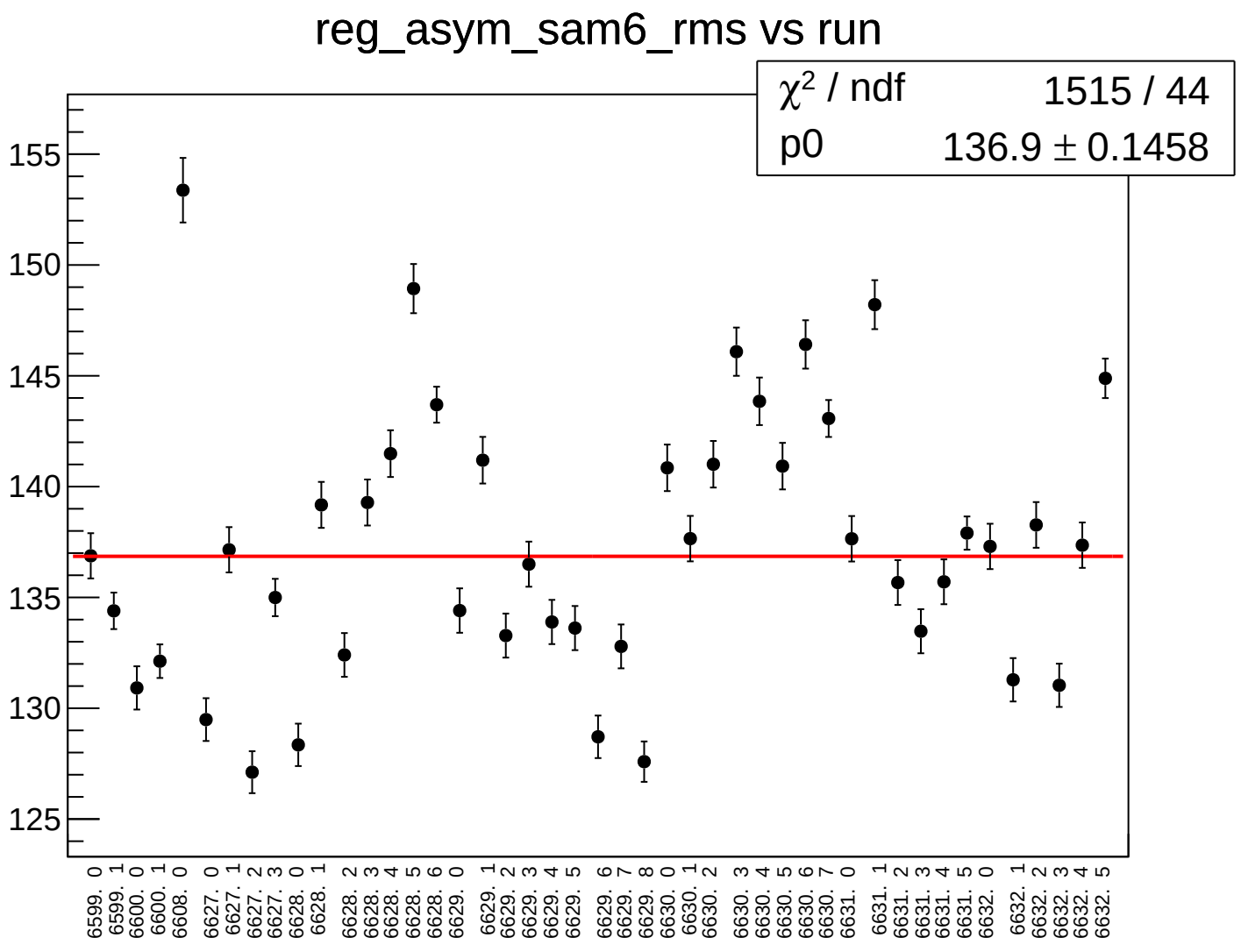
6632. 4
6632. 5


reg_asym_sam6_mean vs run
χ² / ndf 52.62 / 44
p0 −23.1 ± 206.2
4000
2000
0
−2000
−4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 21.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.007044
Std Dev 1.081
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam6_rms vs run
χ² / ndf 1515 / 44
p0 136.9 ± 0.1458
155
150
145
140
135
130
125
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6629. 0
6629. 1
6629. 2
6629. 3
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6629. 6
6629. 7
6629. 8
6630. 0
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6630. 5
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6631. 1
6631. 2
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6631. 4
6631. 5
6632. 0
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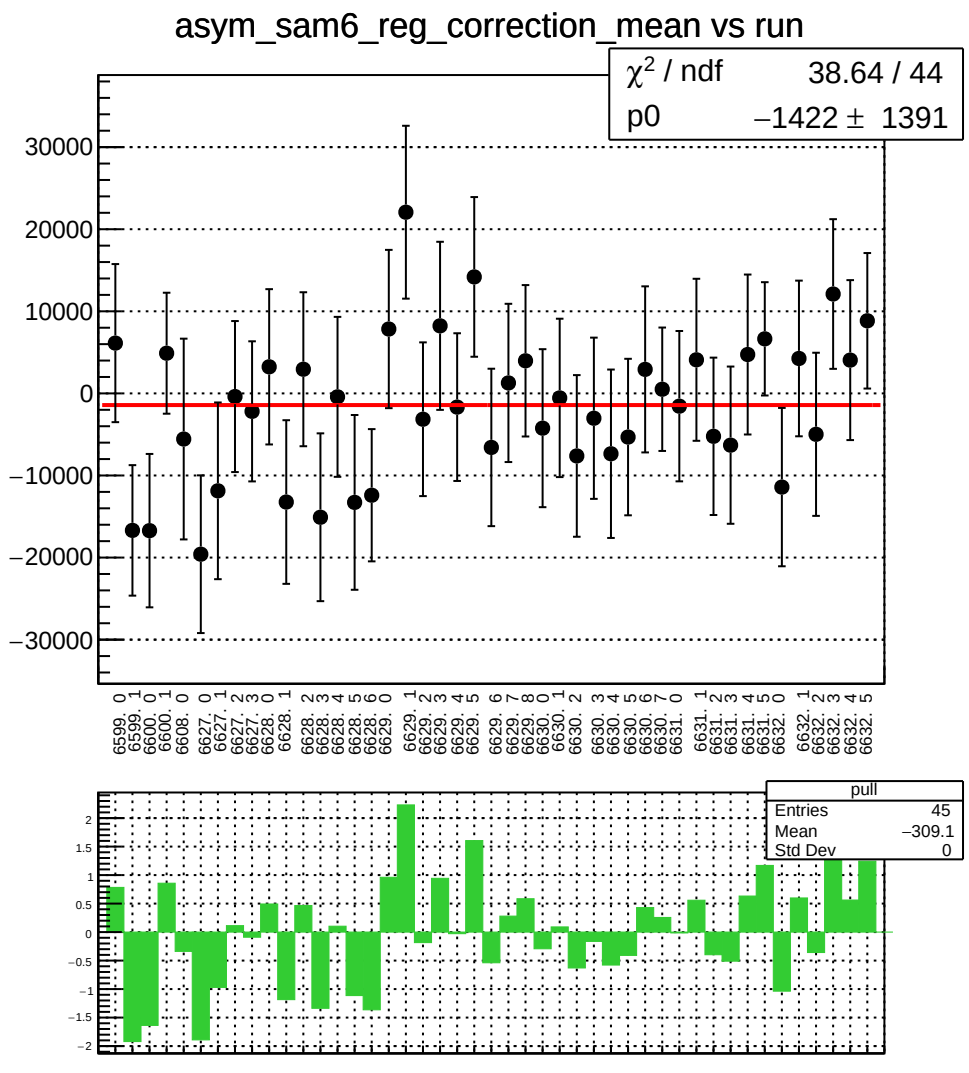
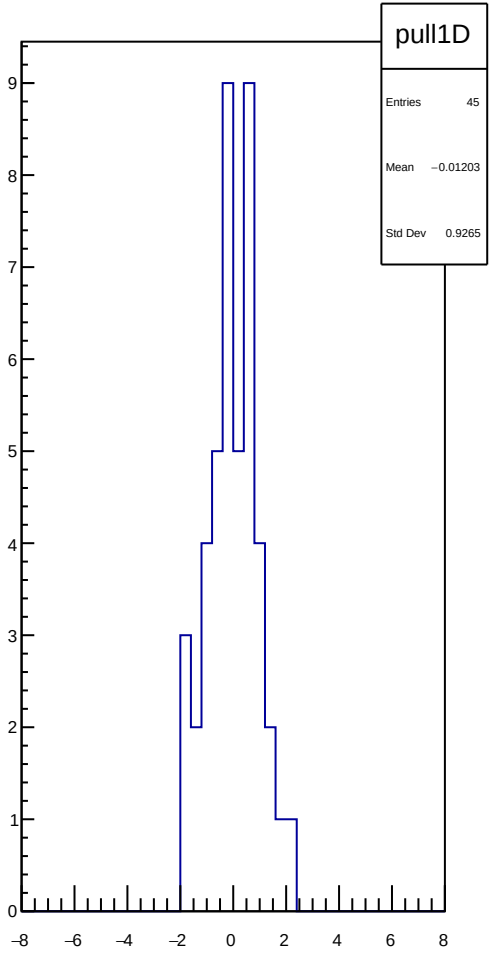
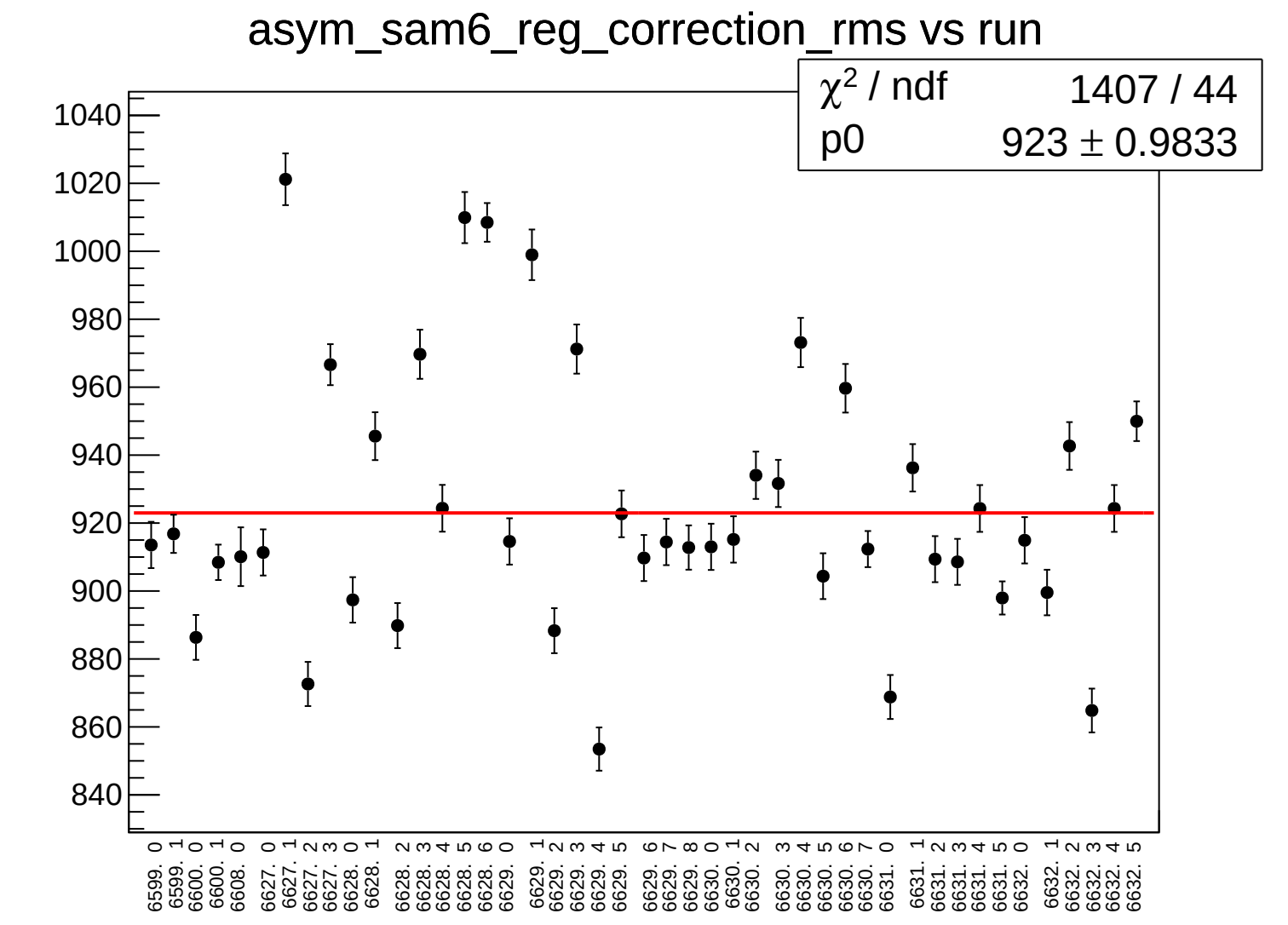
6632. 4
6632. 5


asym_sam6_reg_correction_mean vs run
χ² / ndf 38.64 / 44
p0 −1422 ± 1391
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −309.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.01203
Std Dev 0.9265
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam6_reg_correction_rms vs run
χ² / ndf 1407 / 44
p0 923 ± 0.9833
1040
1020
1000
980
960
940
920
900
880
860
840
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6628. 6
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6629. 6
6629. 7
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6630. 1
6630. 2
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6630. 4
6630. 5
6630. 6
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6631. 1
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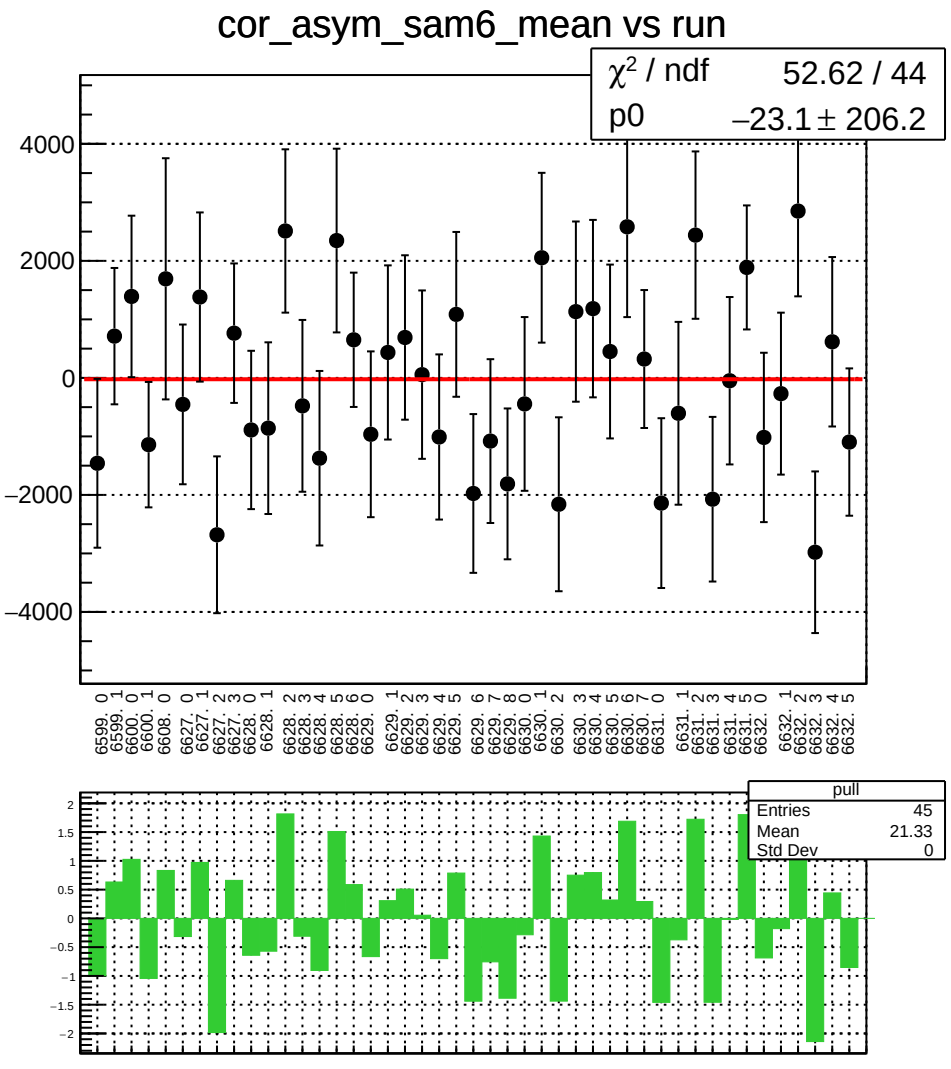
6632. 5


cor_asym_sam6_mean vs run
χ² / ndf 52.62 / 44
p0 −23.1 ± 206.2
4000
2000
0
−2000
−4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
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6630. 2
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6630. 4
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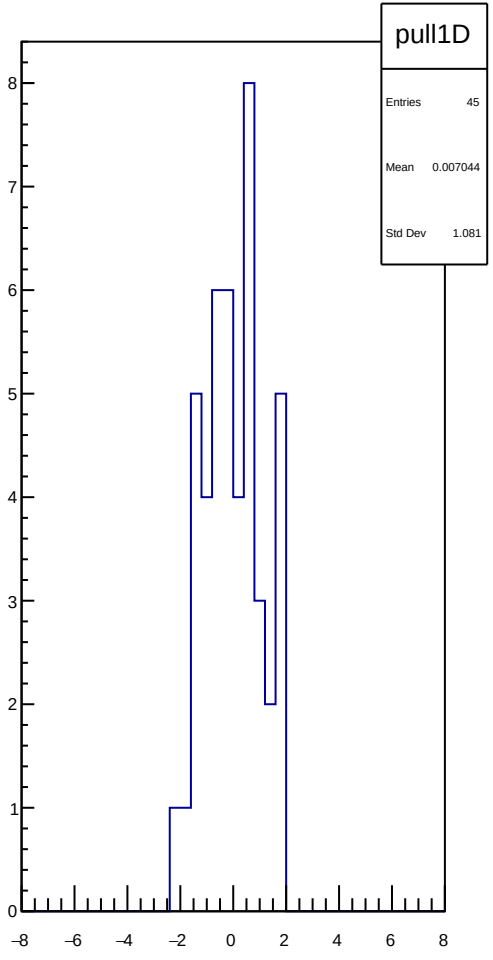
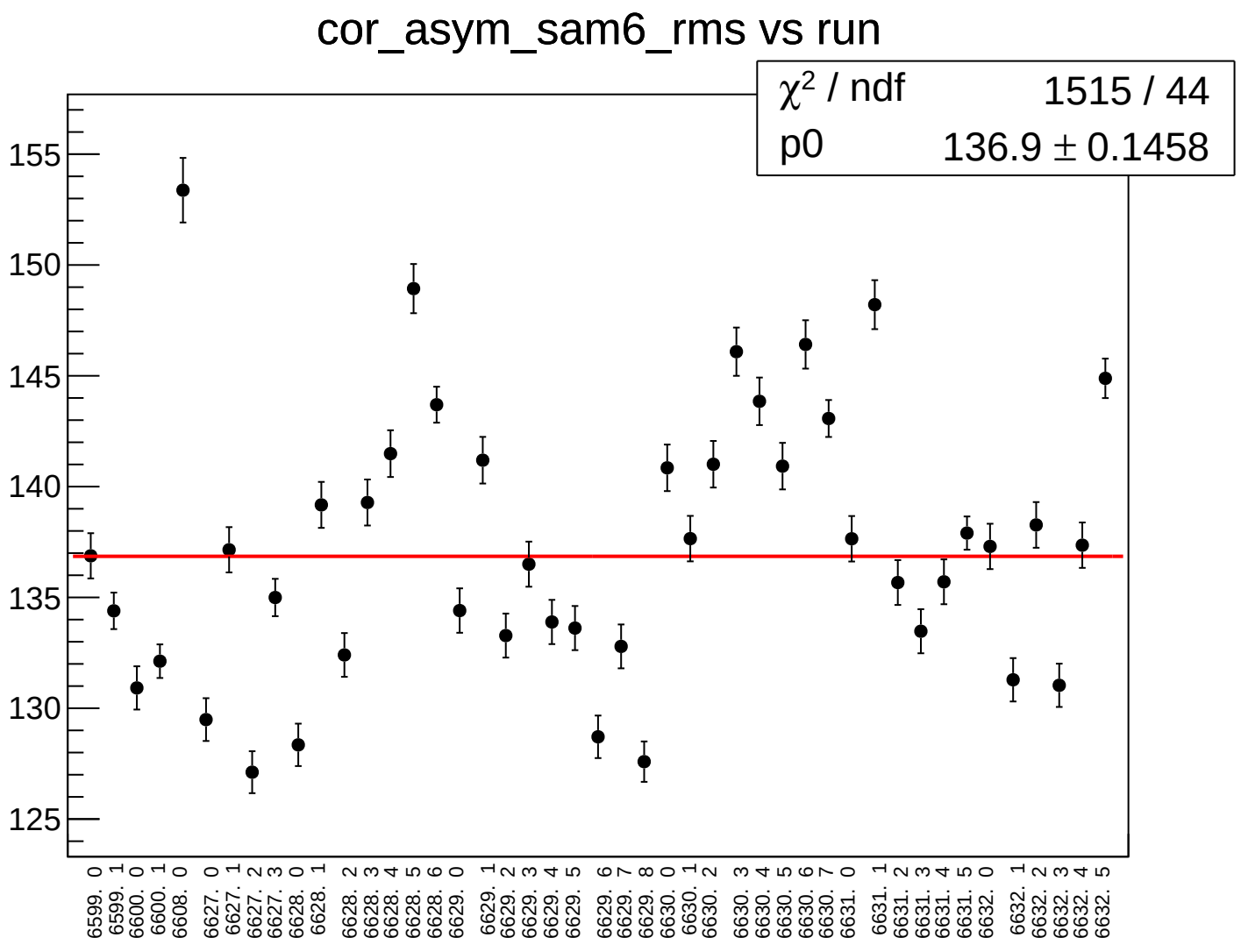
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 21.33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.007044
Std Dev 1.081
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam6_rms vs run
χ² / ndf 1515 / 44
p0 136.9 ± 0.1458
155
150
145
140
135
130
125
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
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6629. 0
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6629. 2
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6629. 4
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6630. 2
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6630. 5
6630. 6
6630. 7
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6631. 1
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6632. 2
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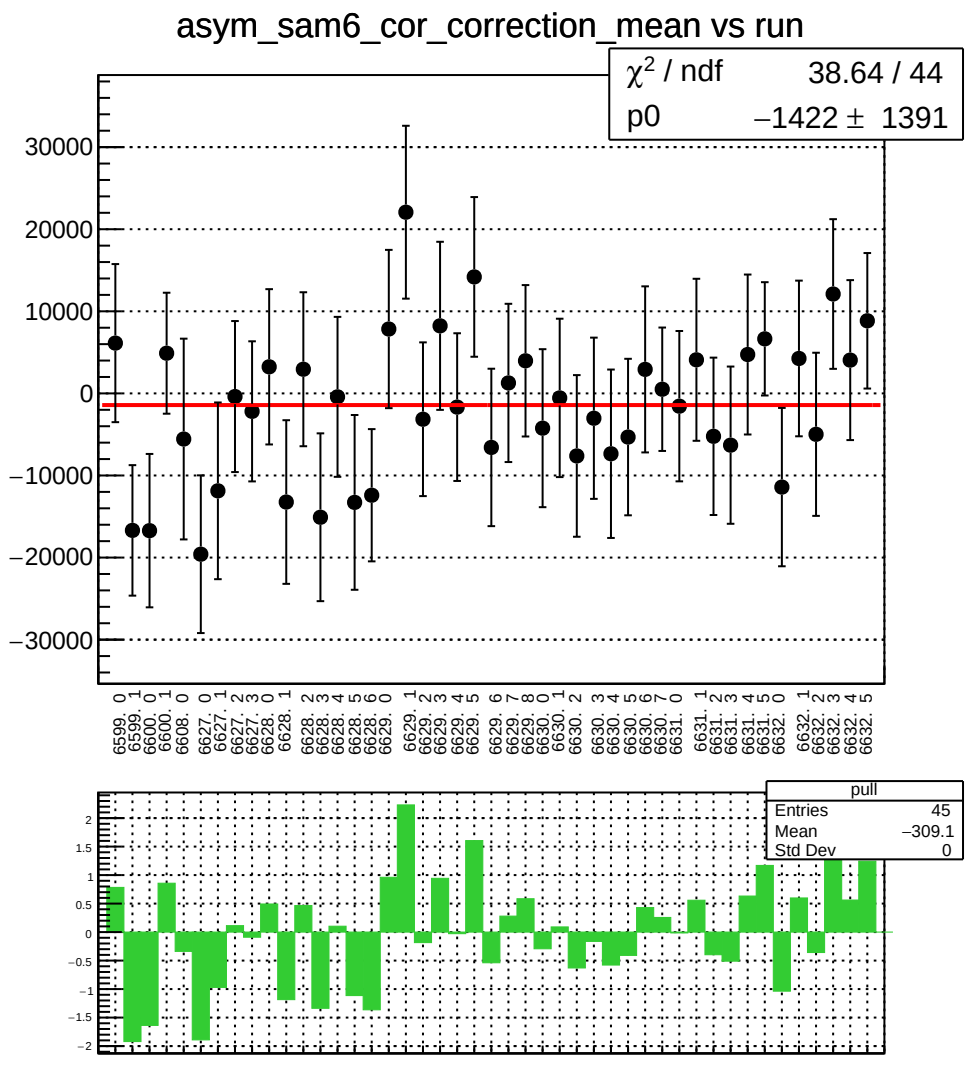
6632. 4
6632. 5


asym_sam6_cor_correction_mean vs run
χ² / ndf 38.64 / 44
p0 −1422 ± 1391
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
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6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 7
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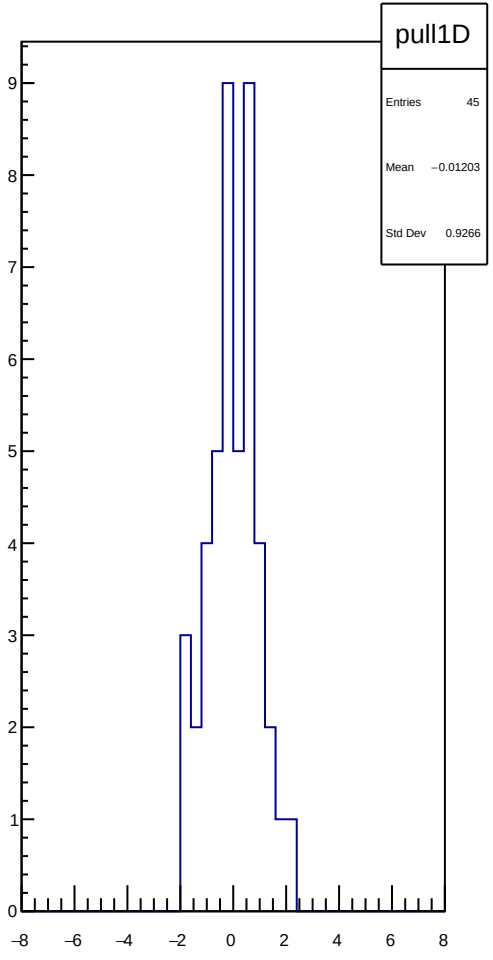
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −309.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.01203
Std Dev 0.9266
9
8
7
6
5
4
3
2
1
0
−8
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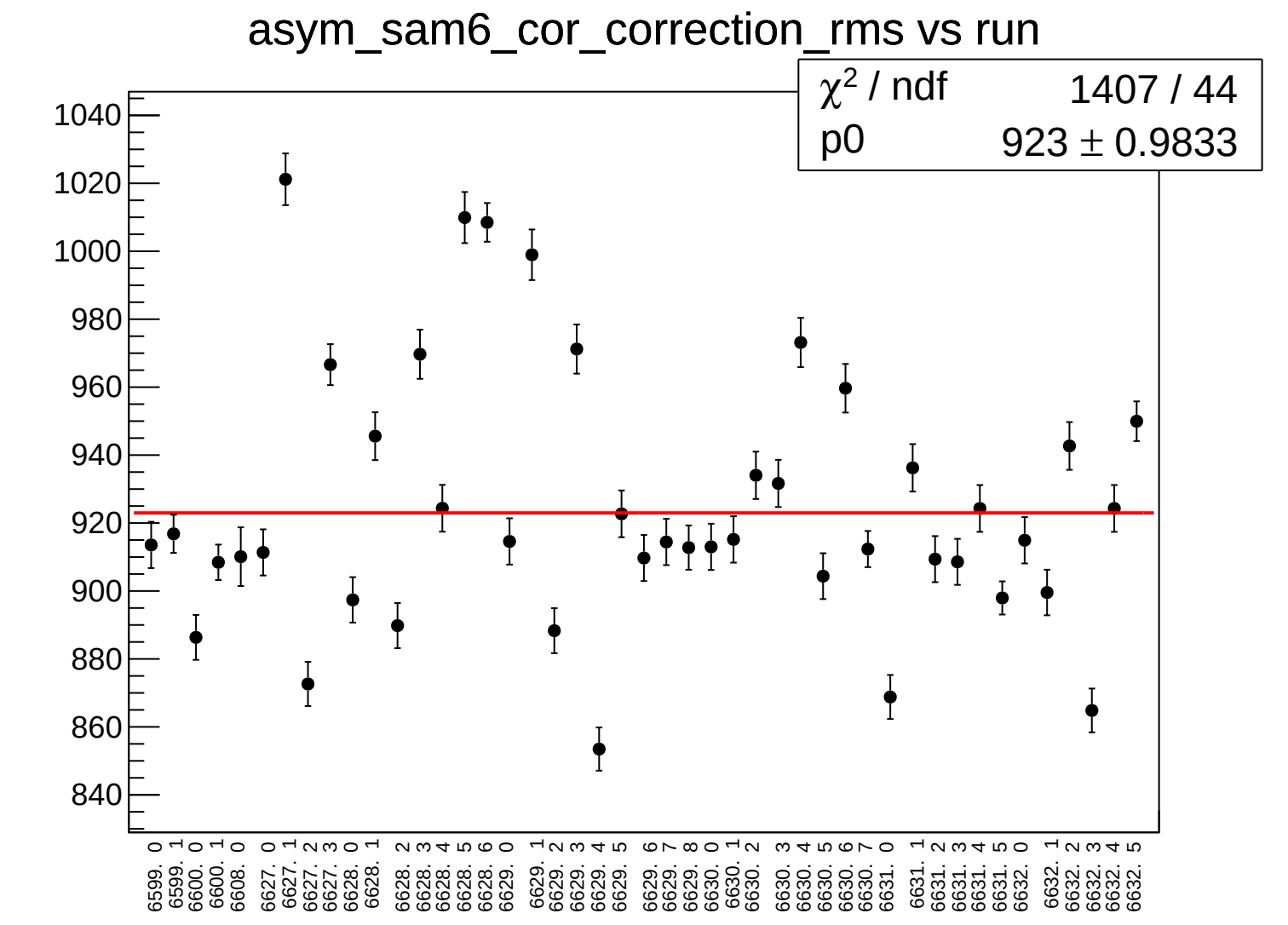
−4
−2
0
2
4
6
8


asym_sam6_cor_correction_rms vs run
χ² / ndf 1407 / 44
p0 923 ± 0.9833
1040
1020
1000
980
960
940
920
900
880
860
840
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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6629. 4
6629. 5
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6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 5
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6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
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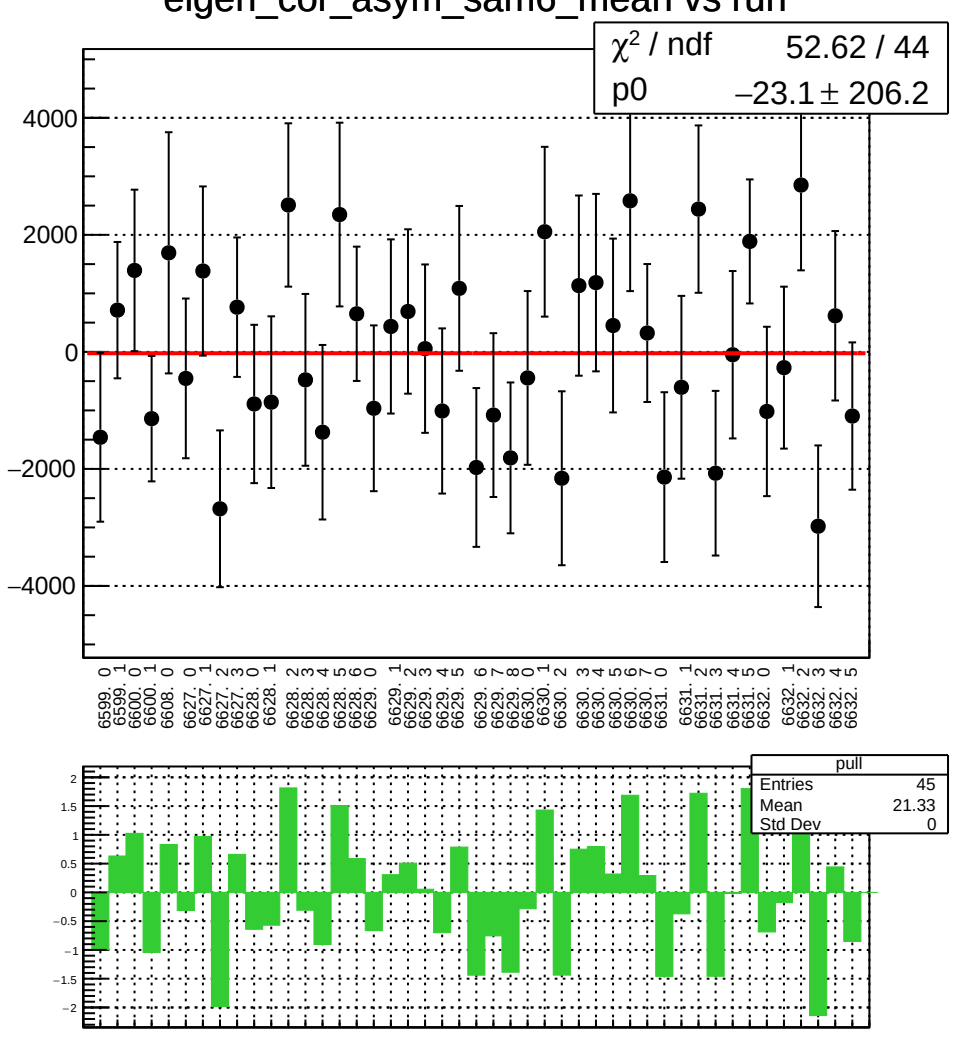
6632. 4
6632. 5


eigen_cor_asym_sam6_mean vs run
χ² / ndf 52.62 / 44
p0 −23.1 ± 206.2
4000
2000
0
−2000
−4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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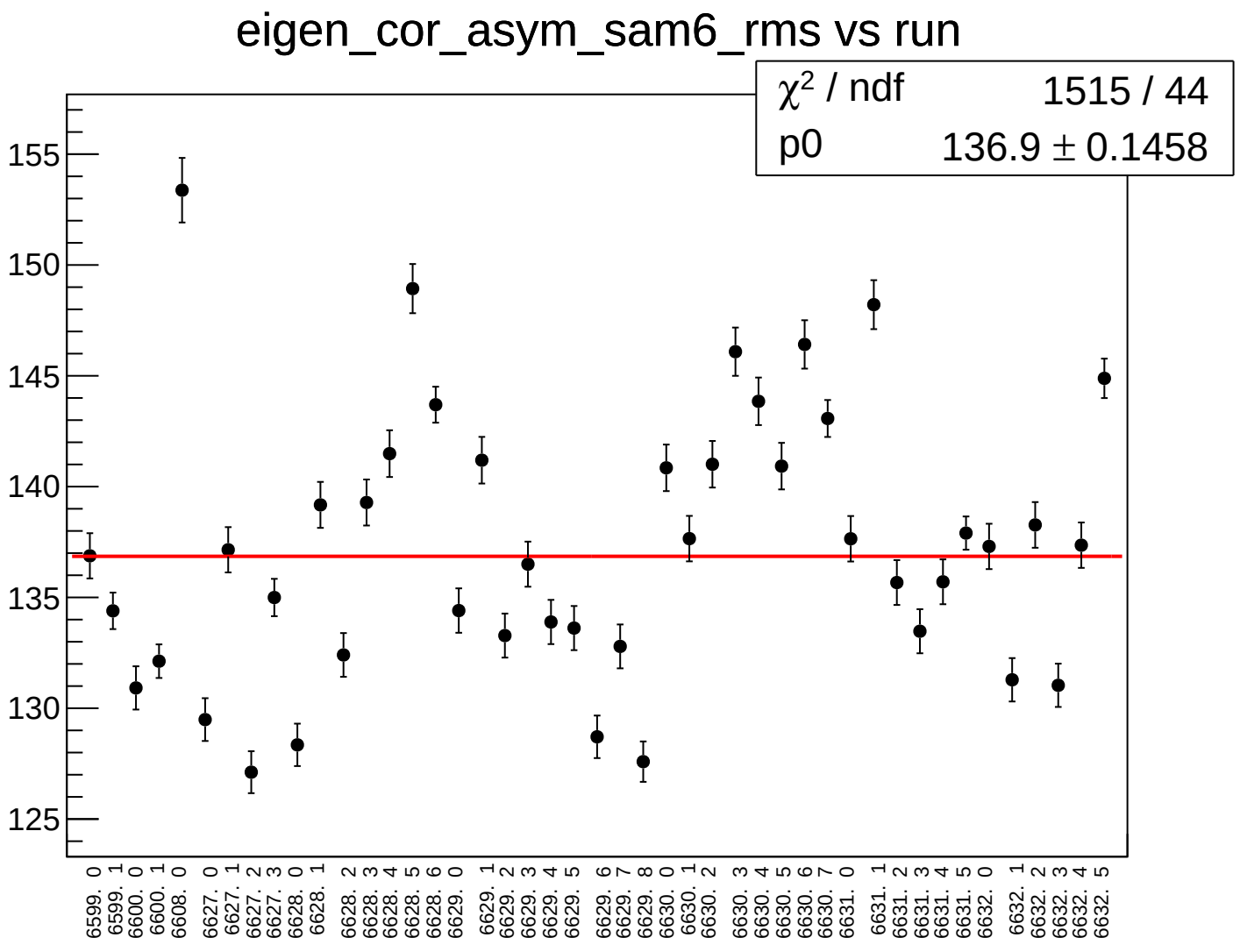
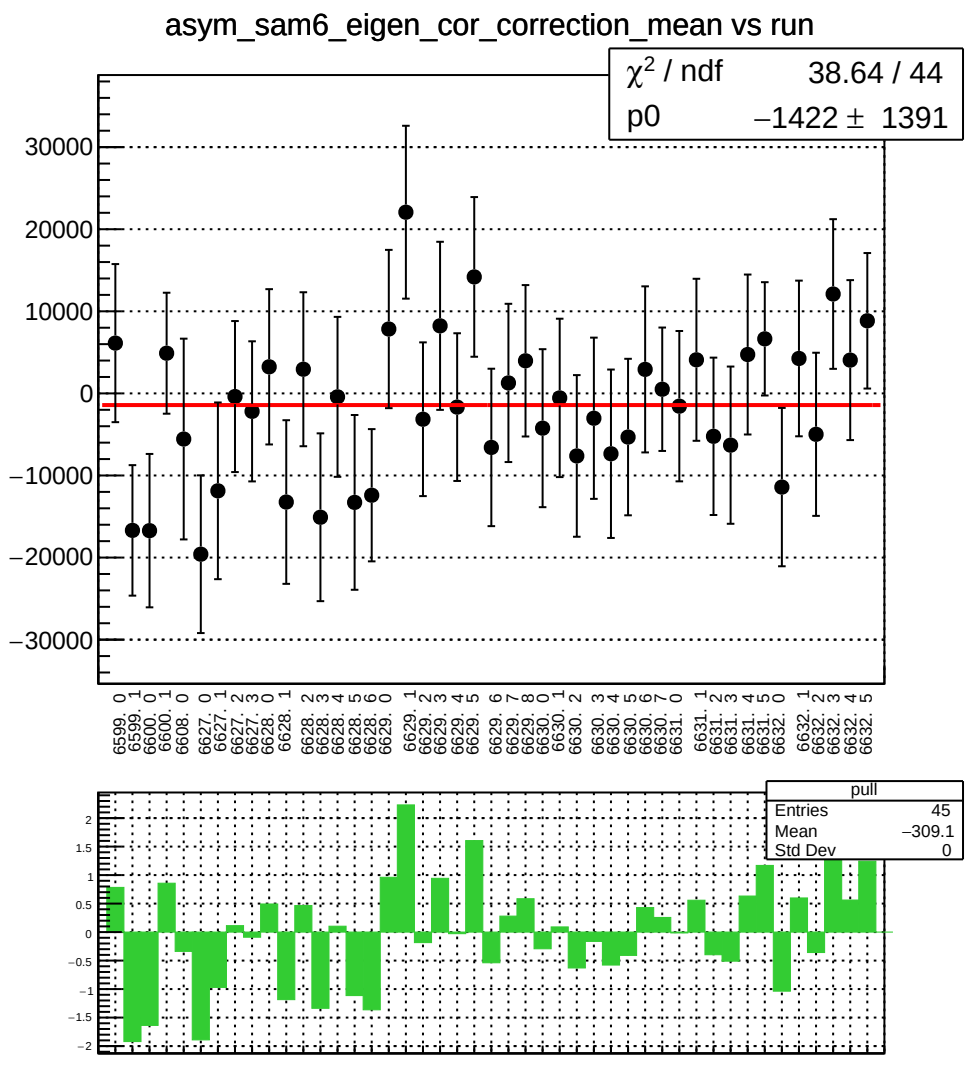
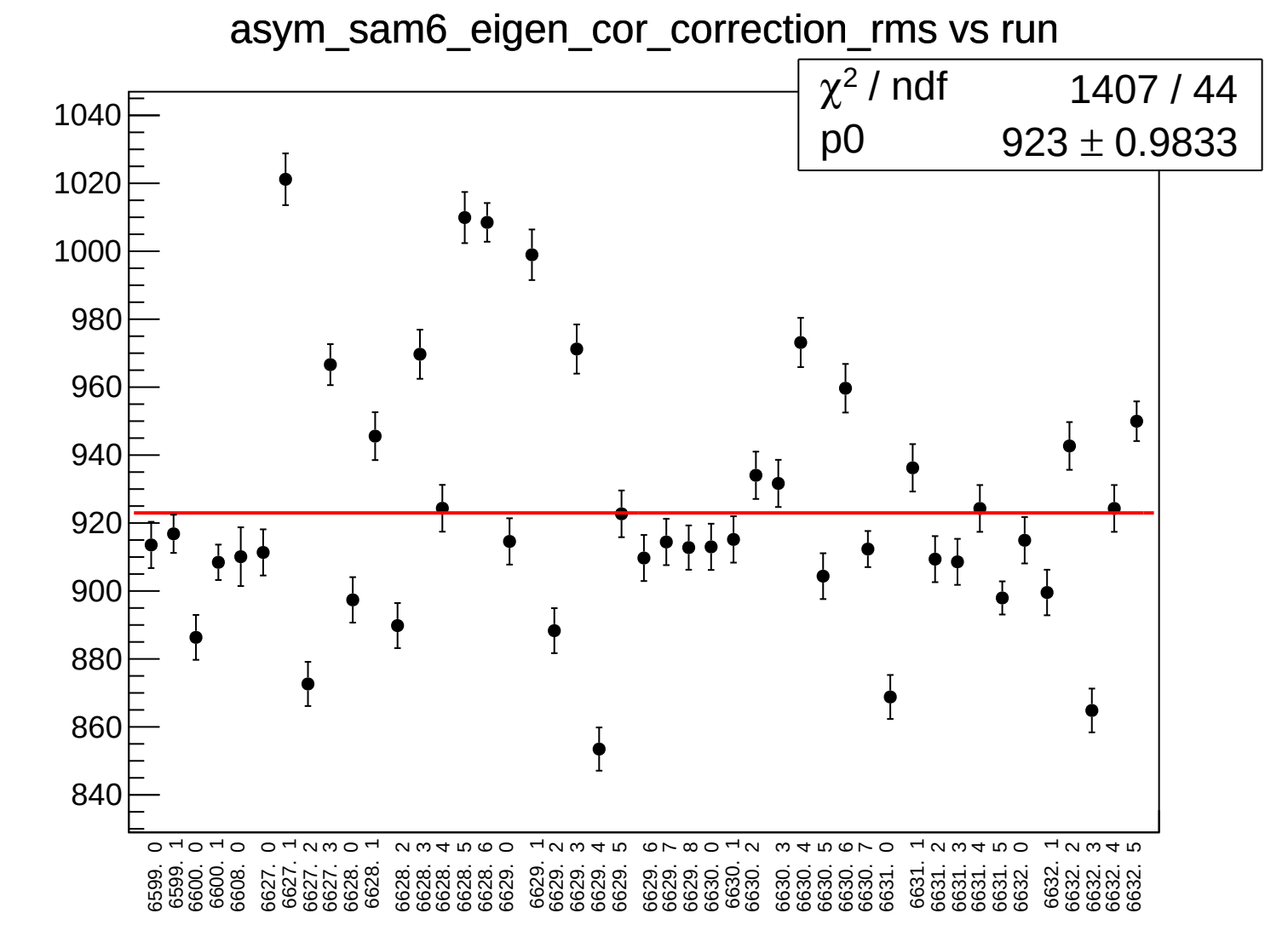
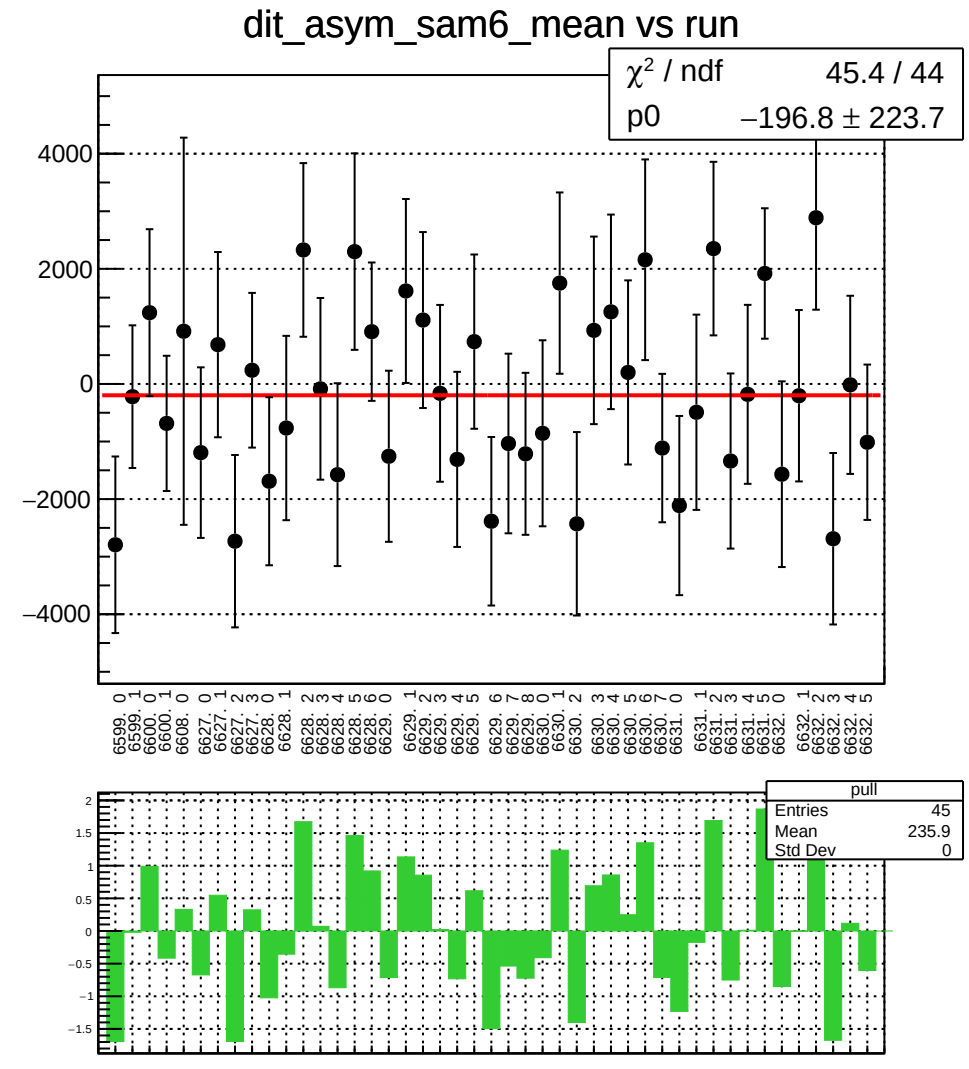
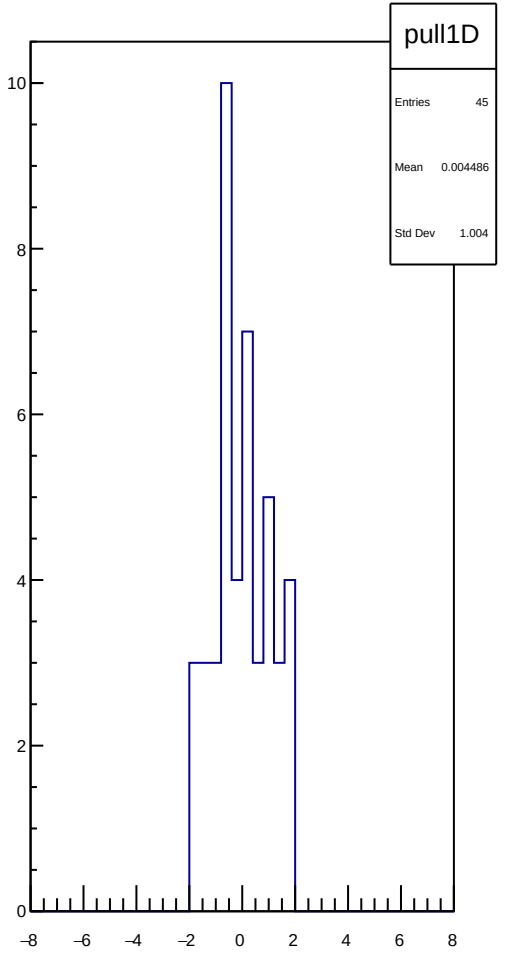
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 21.33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.007044
Std Dev 1.081
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

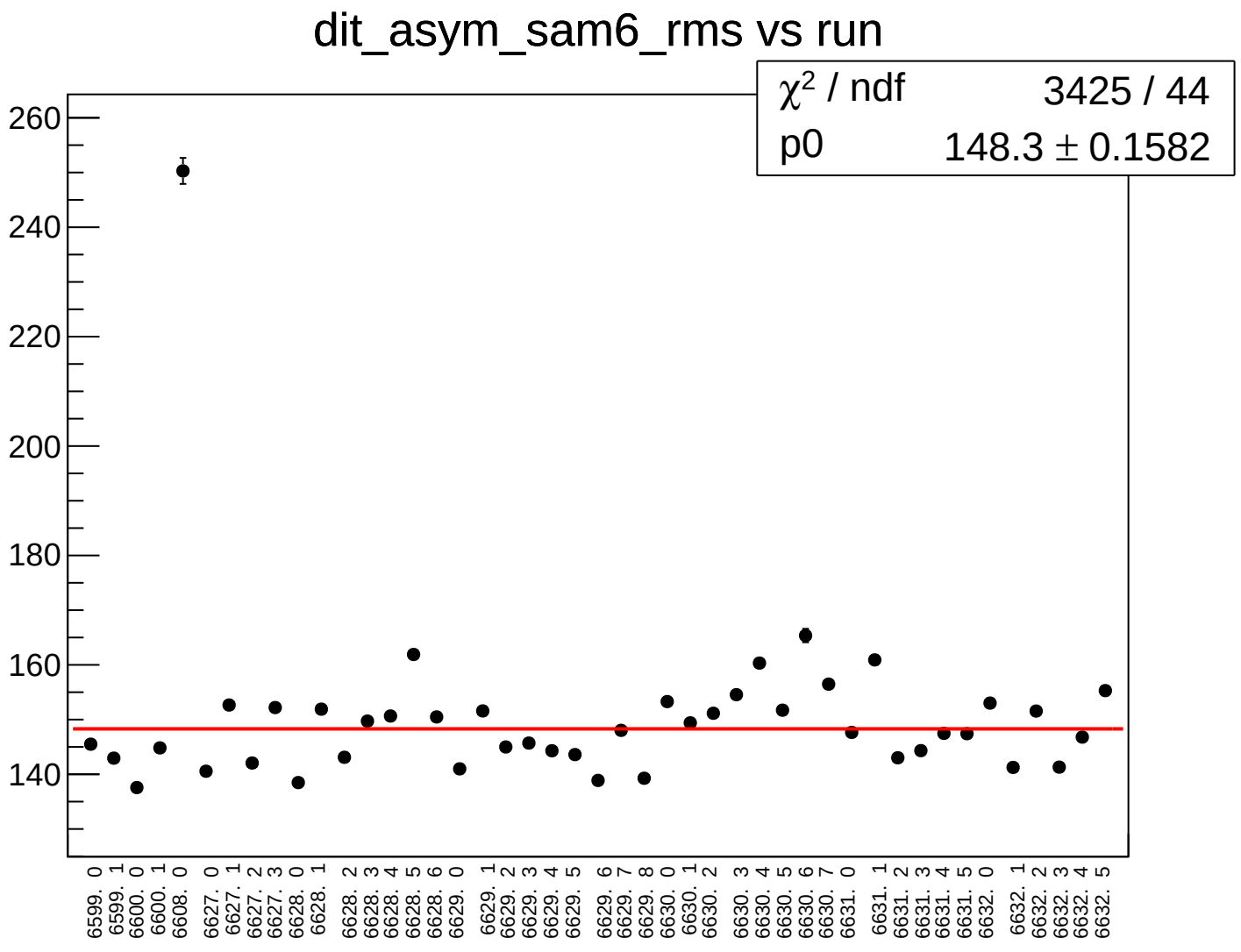

eigen_cor_asym_sam6_rms vs run
χ² / ndf 1515 / 44
p0 136.9 ± 0.1458
155
150
145
140
135
130
125
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

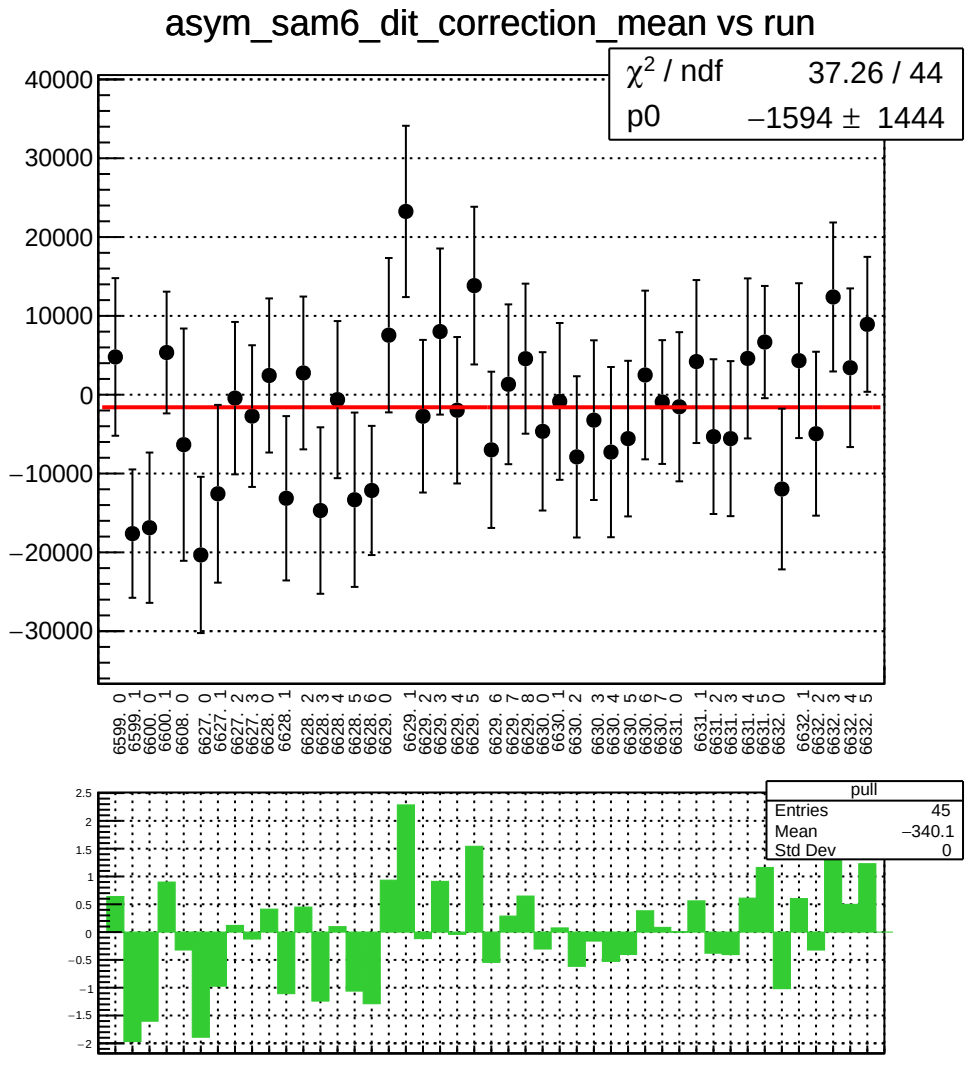

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 38.64 / 44
p0 −1422 ± 1391
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −309.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01203
Std Dev 0.9266
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

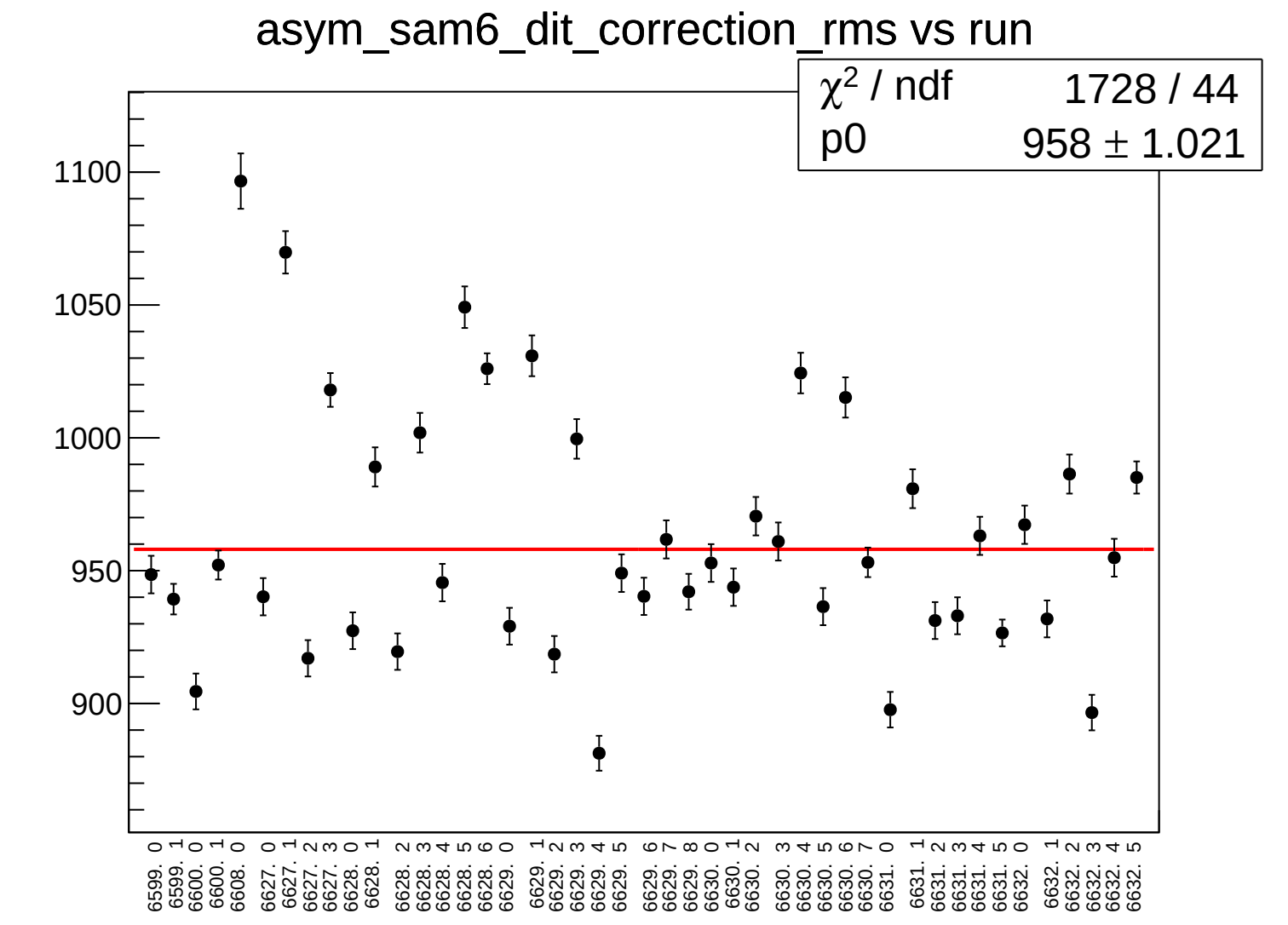

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 1407 / 44
p0 923 ± 0.9833
1040
1020
1000
980
960
940
920
900
880
860
840
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

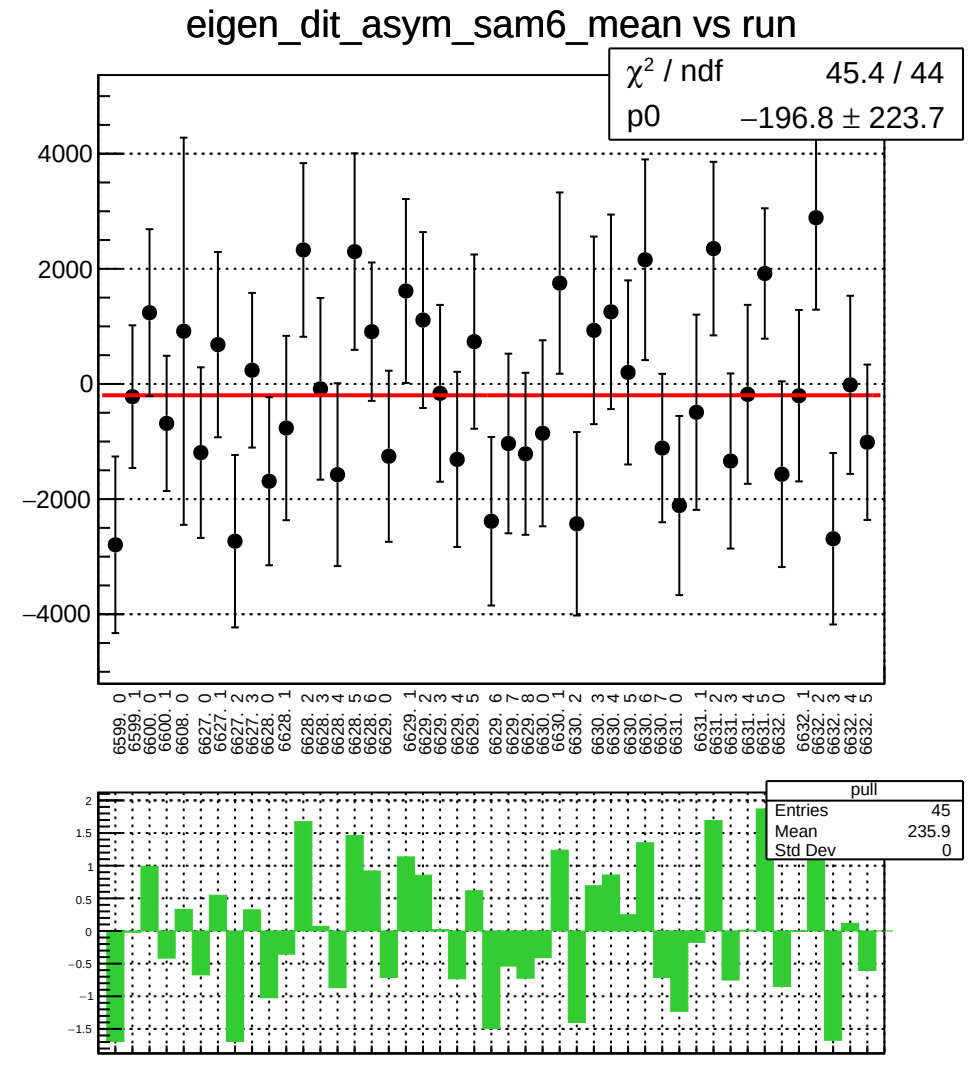

dit_asym_sam6_mean vs run
χ² / ndf 45.4 / 44
p0 −196.8 ± 223.7
4000
2000
0
−2000
−4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 235.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

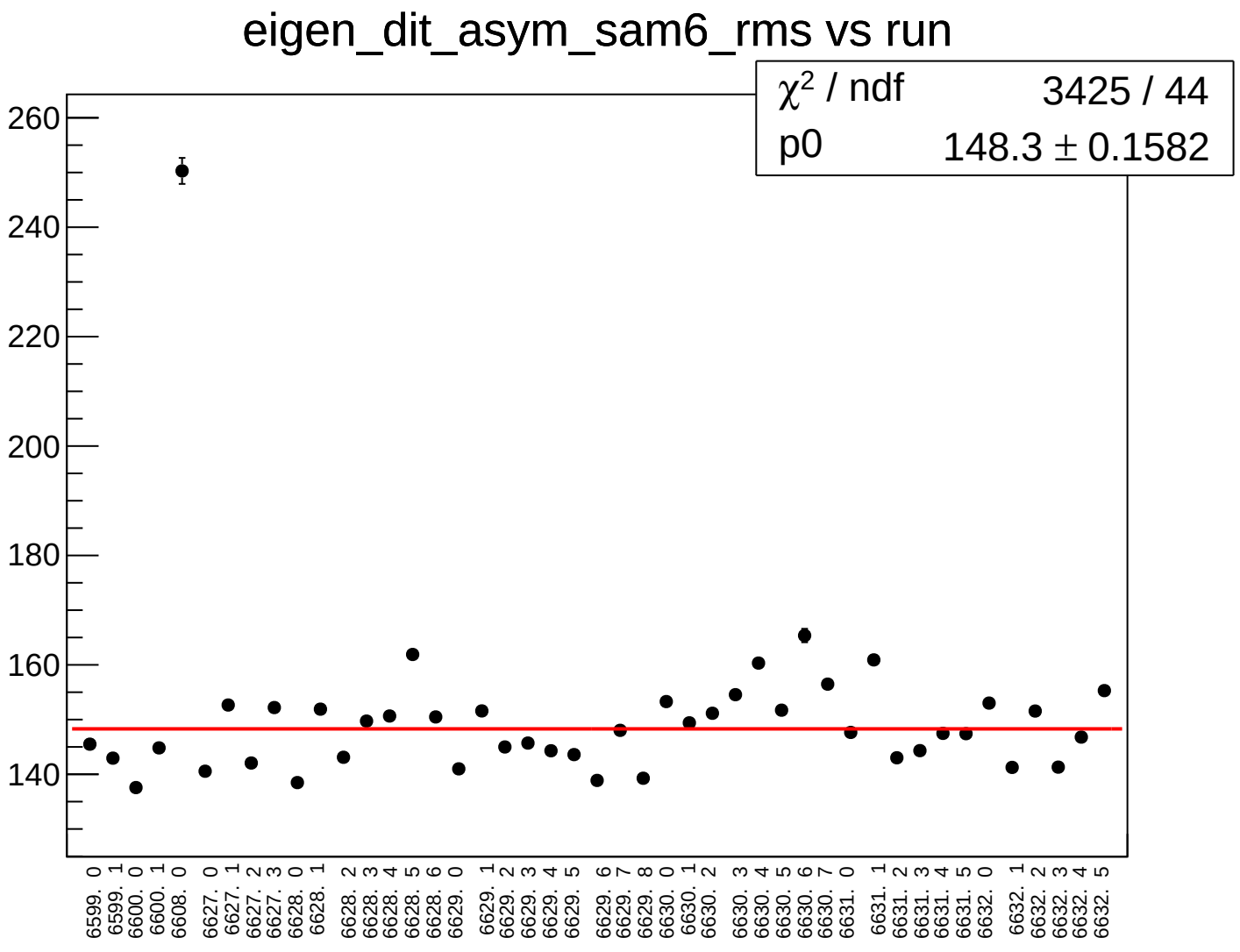

pull1D
Entries 45
Mean 0.004486
Std Dev 1.004
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

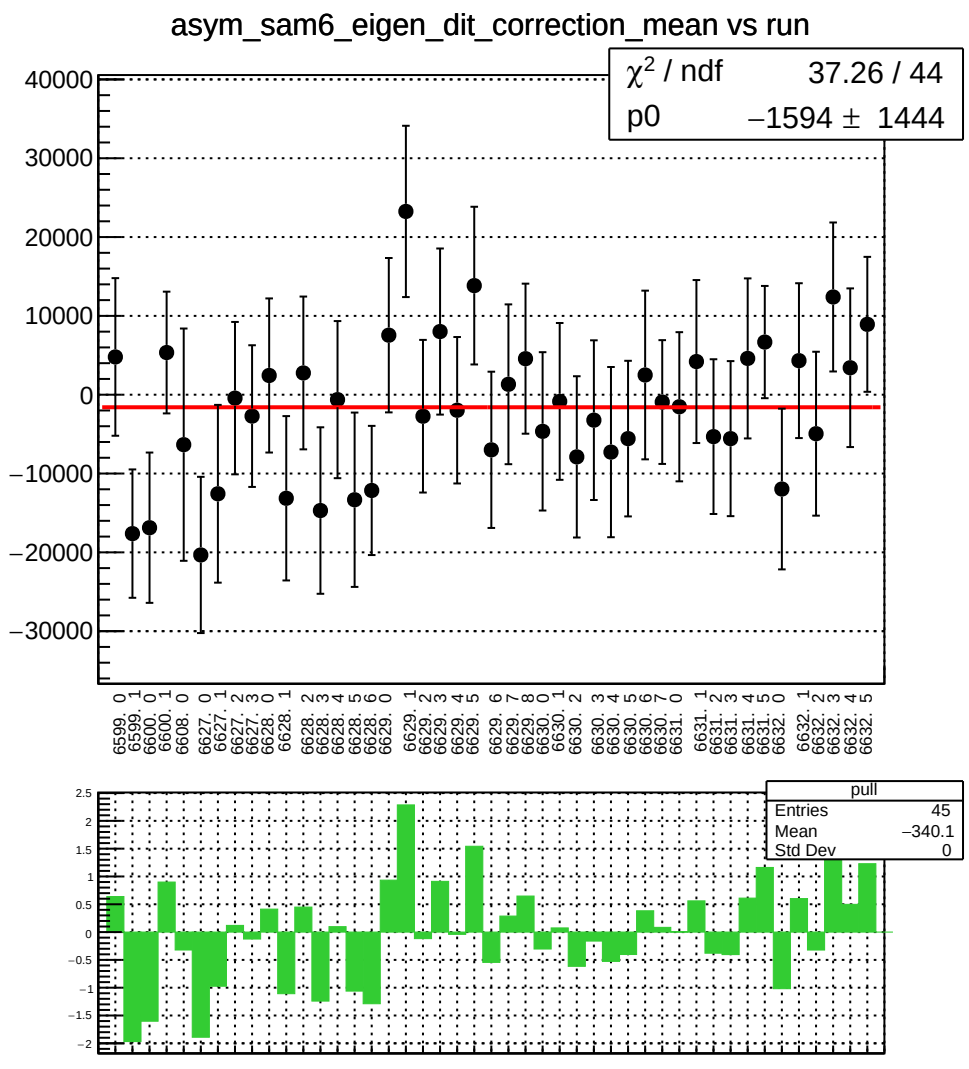

dit_asym_sam6_rms vs run
χ² / ndf 3425 / 44
p0 148.3 ± 0.1582
260
240
220
200
180
160
140
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

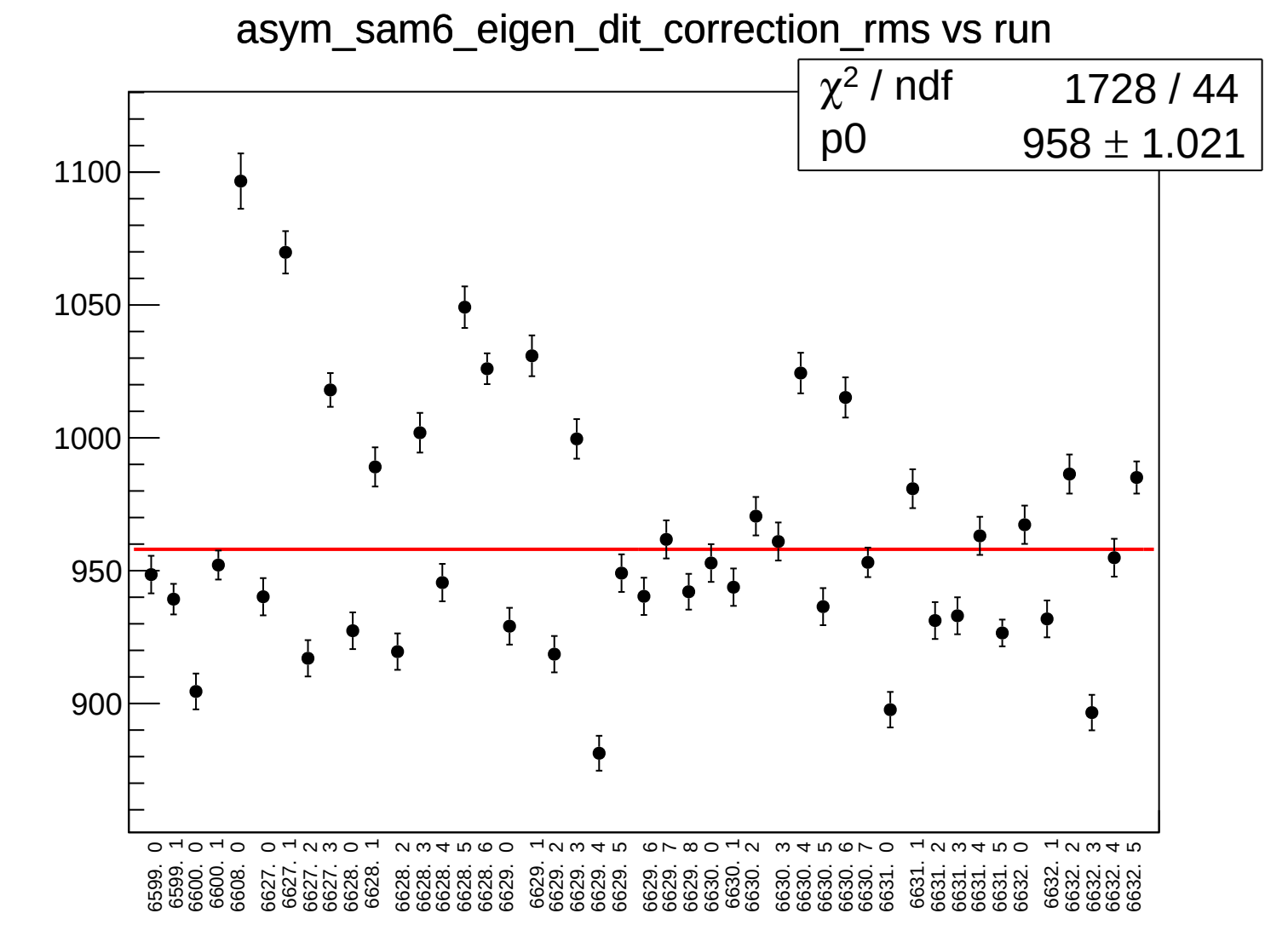

asym_sam6_dit_correction_mean vs run
χ² / ndf 37.26 / 44
p0 −1594 ± 1444
40000
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −340.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01102
Std Dev 0.9099
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

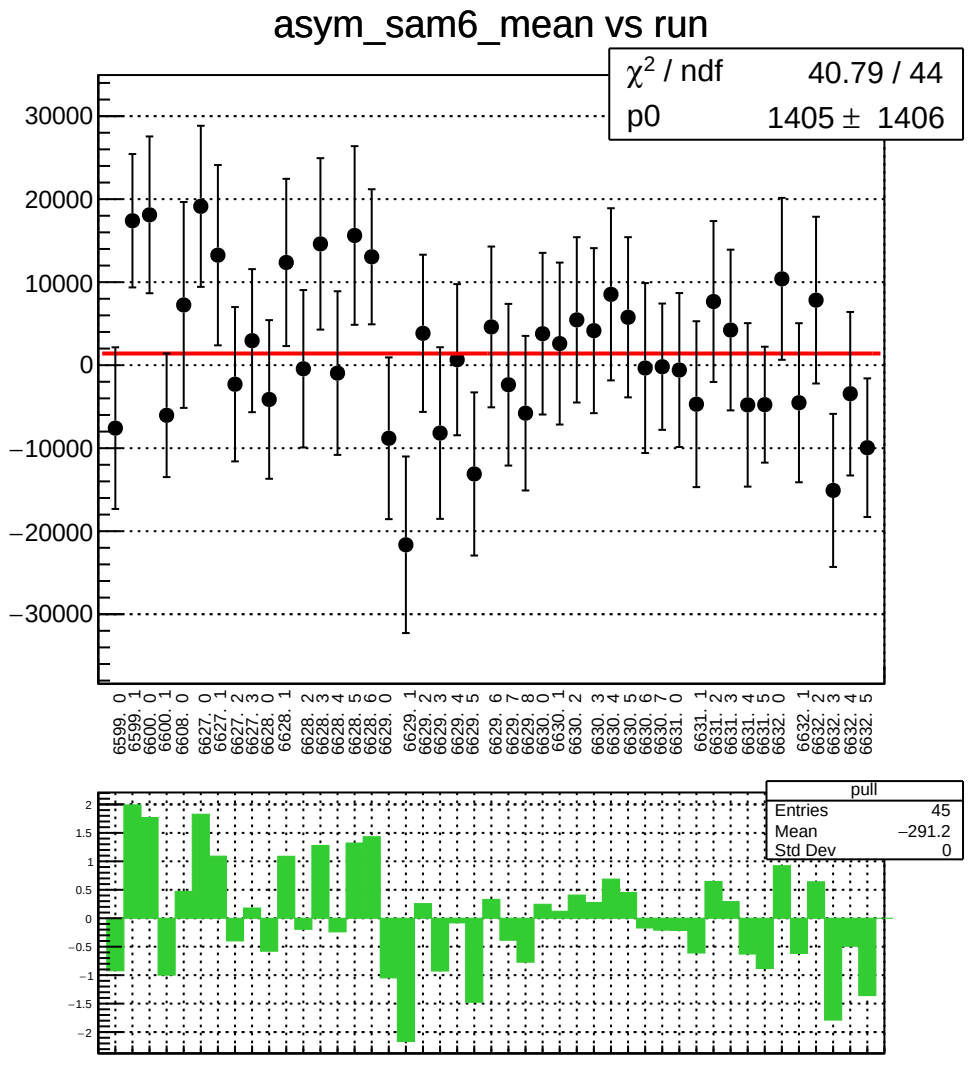

asym_sam6_dit_correction_rms vs run
χ² / ndf 1728 / 44
p0 958 ± 1.021
1100
1050
1000
950
900
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

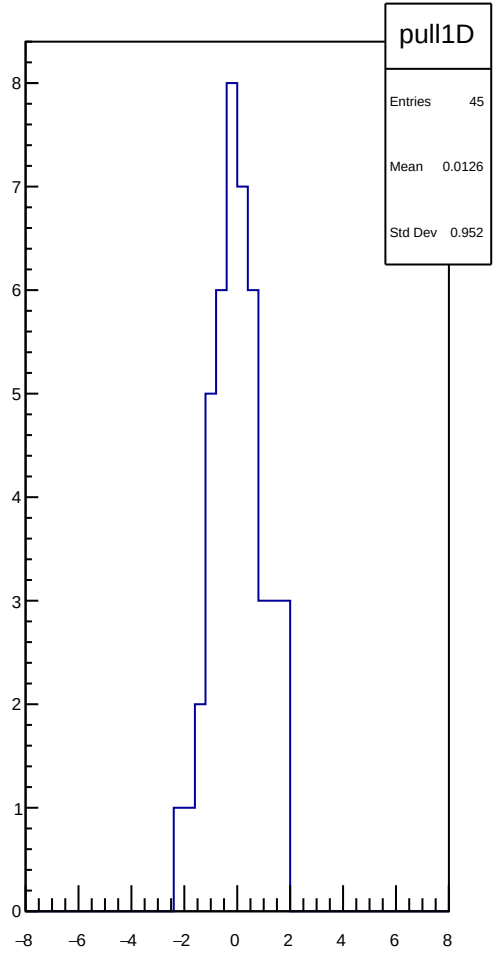

eigen_dit_asym_sam6_mean vs run
χ² / ndf 45.4 / 44
p0 −196.8 ± 223.7
4000
2000
0
−2000
−4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 235.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.004486
Std Dev 1.004
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

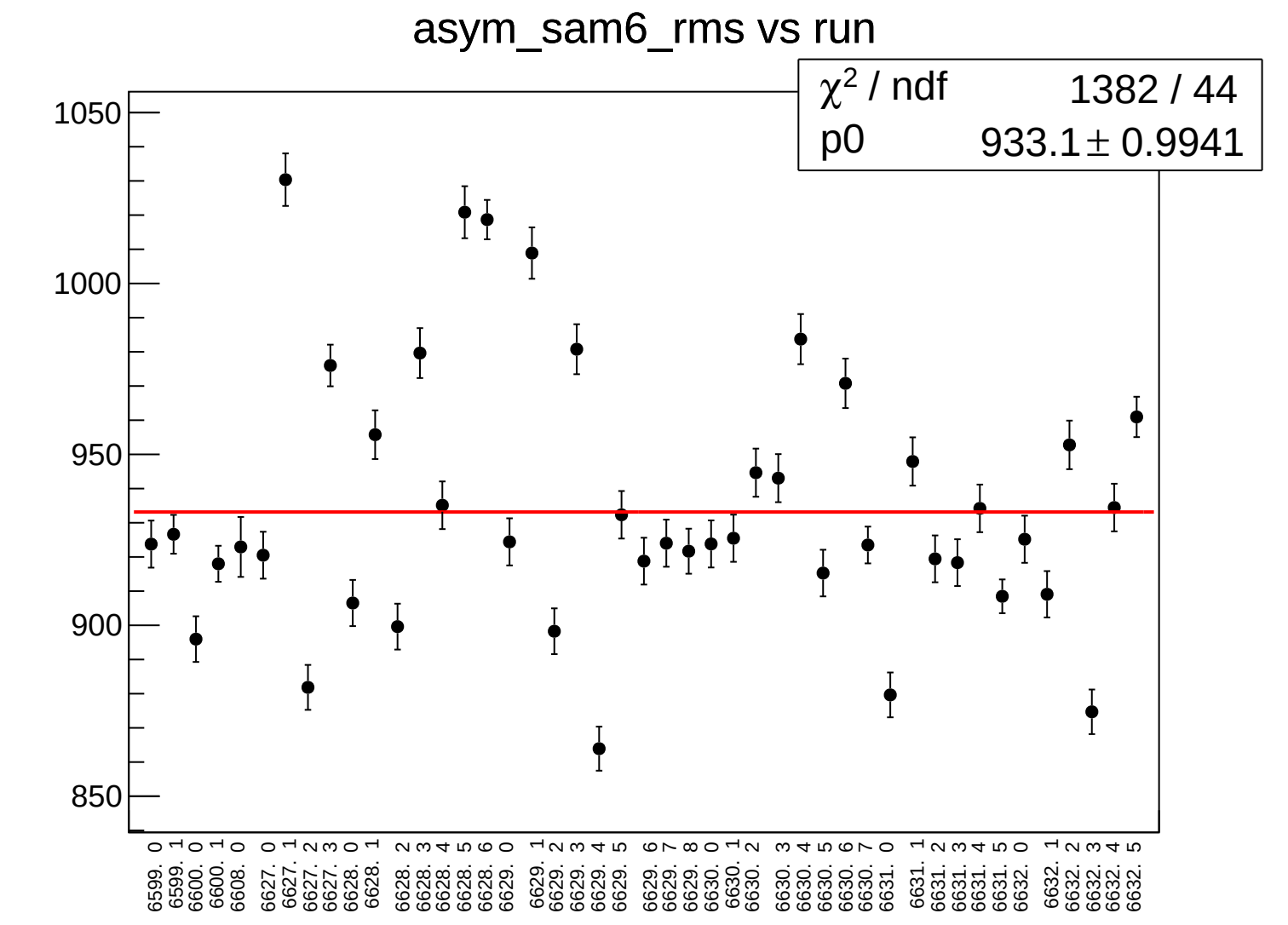

eigen_dit_asym_sam6_rms vs run
χ² / ndf 3425 / 44
p0 148.3 ± 0.1582
260
240
220
200
180
160
140
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

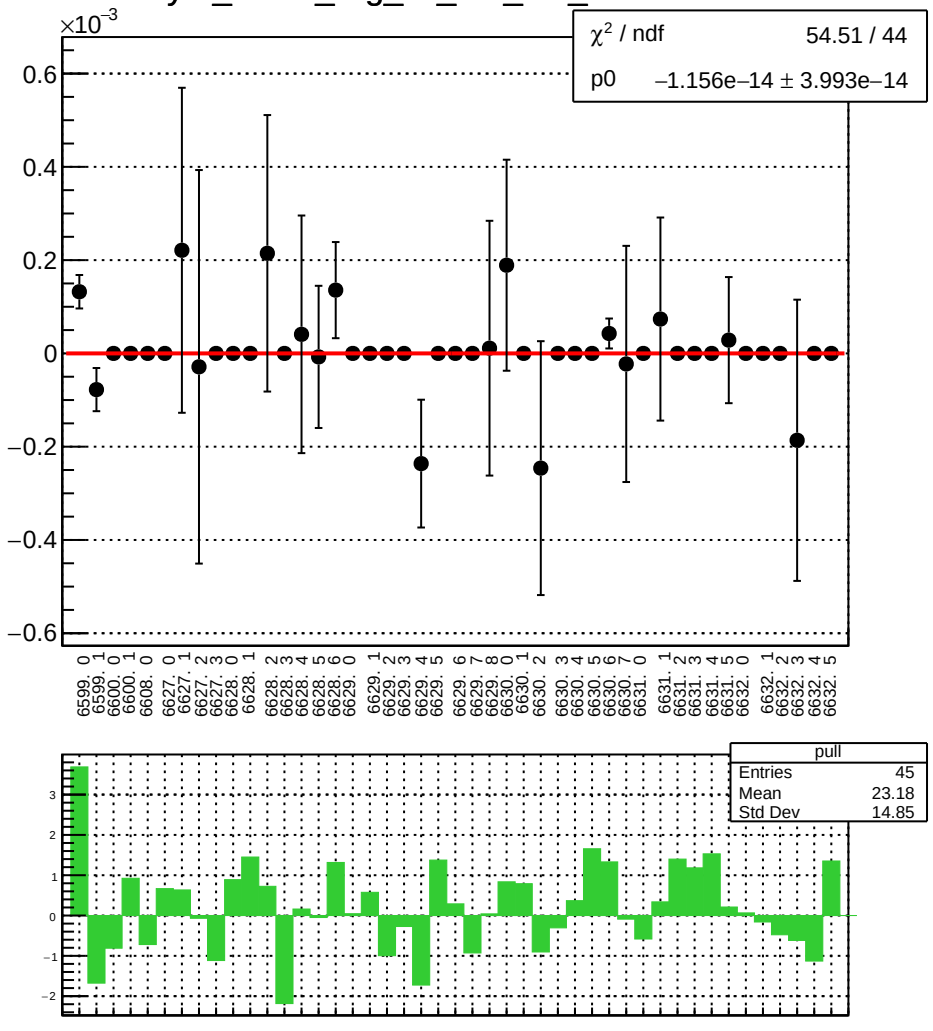

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 37.26 / 44
p0 −1594 ± 1444
40000
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −340.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01102
Std Dev 0.9099
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

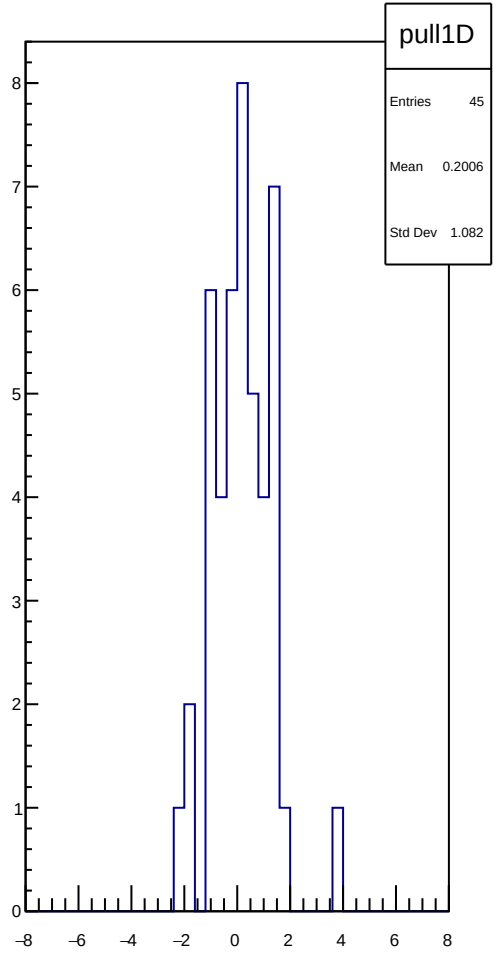

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 1728 / 44
p0 958 ± 1.021
1100
1050
1000
950
900
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

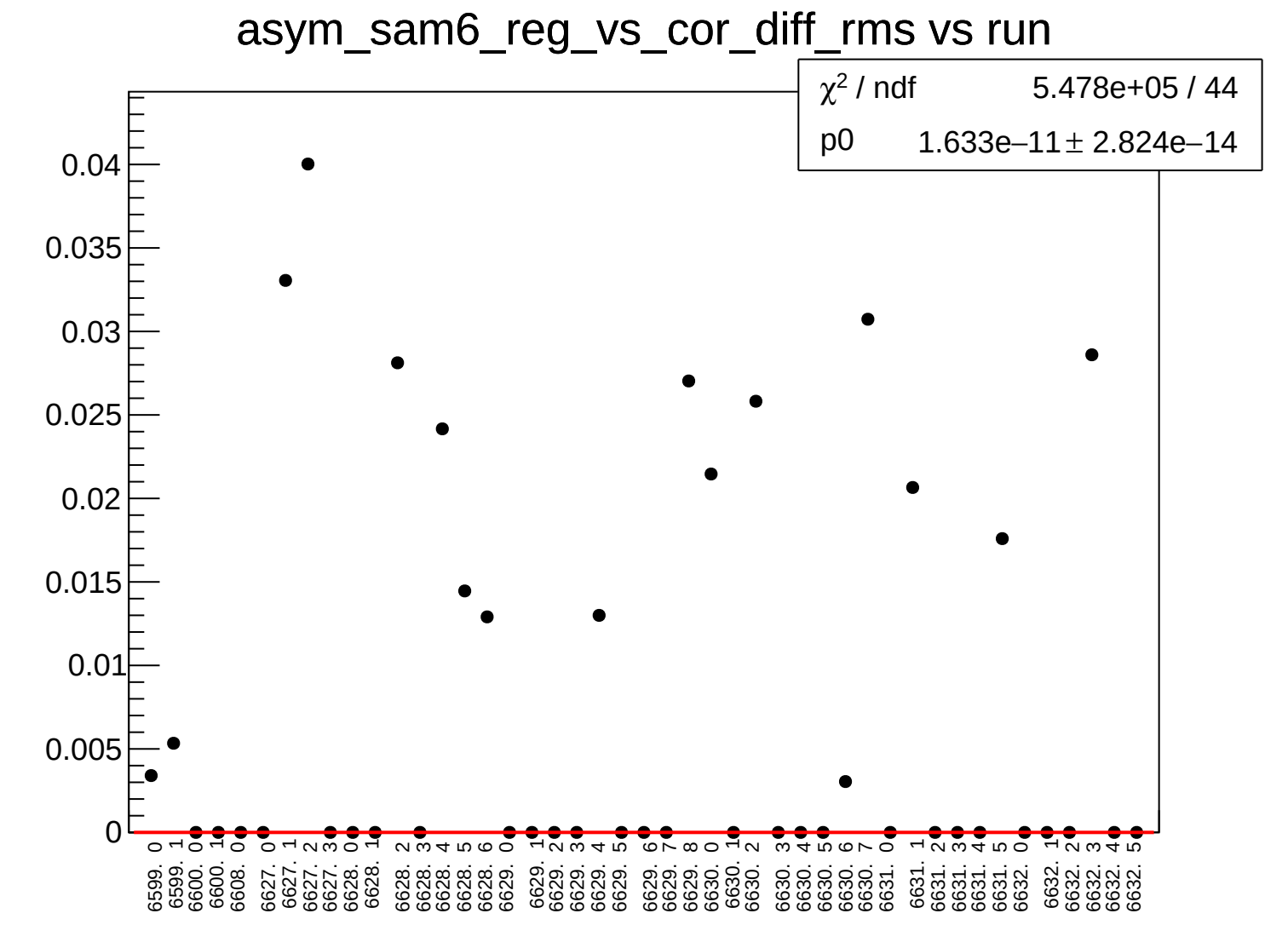

asym_sam6_mean vs run
$\chi^2$ / ndf 40.79 / 44
p0 1405 ± 1406
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −291.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

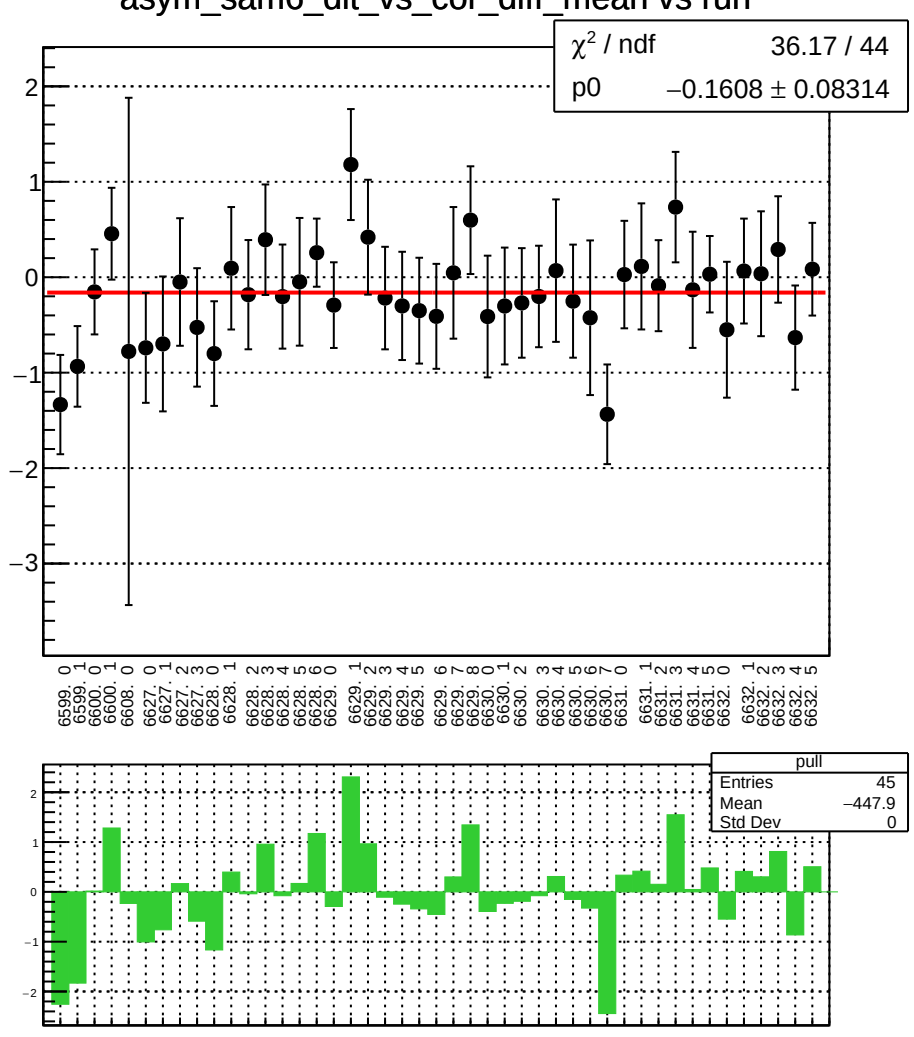

pull1D
Entries 45
Mean 0.0126
Std Dev 0.952
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

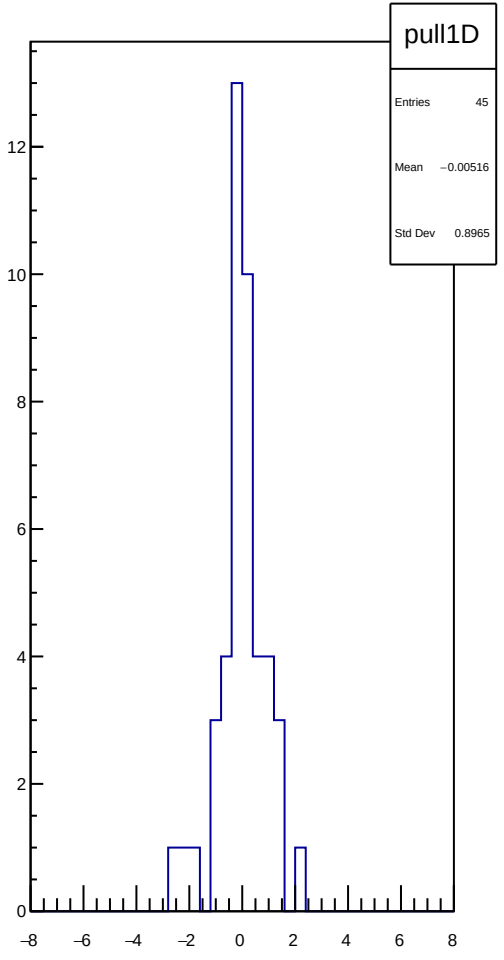

asym_sam6_rms vs run
$\chi^2$ / ndf 1382 / 44
p0 933.1 ± 0.9941
1050
1000
950
900
850
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

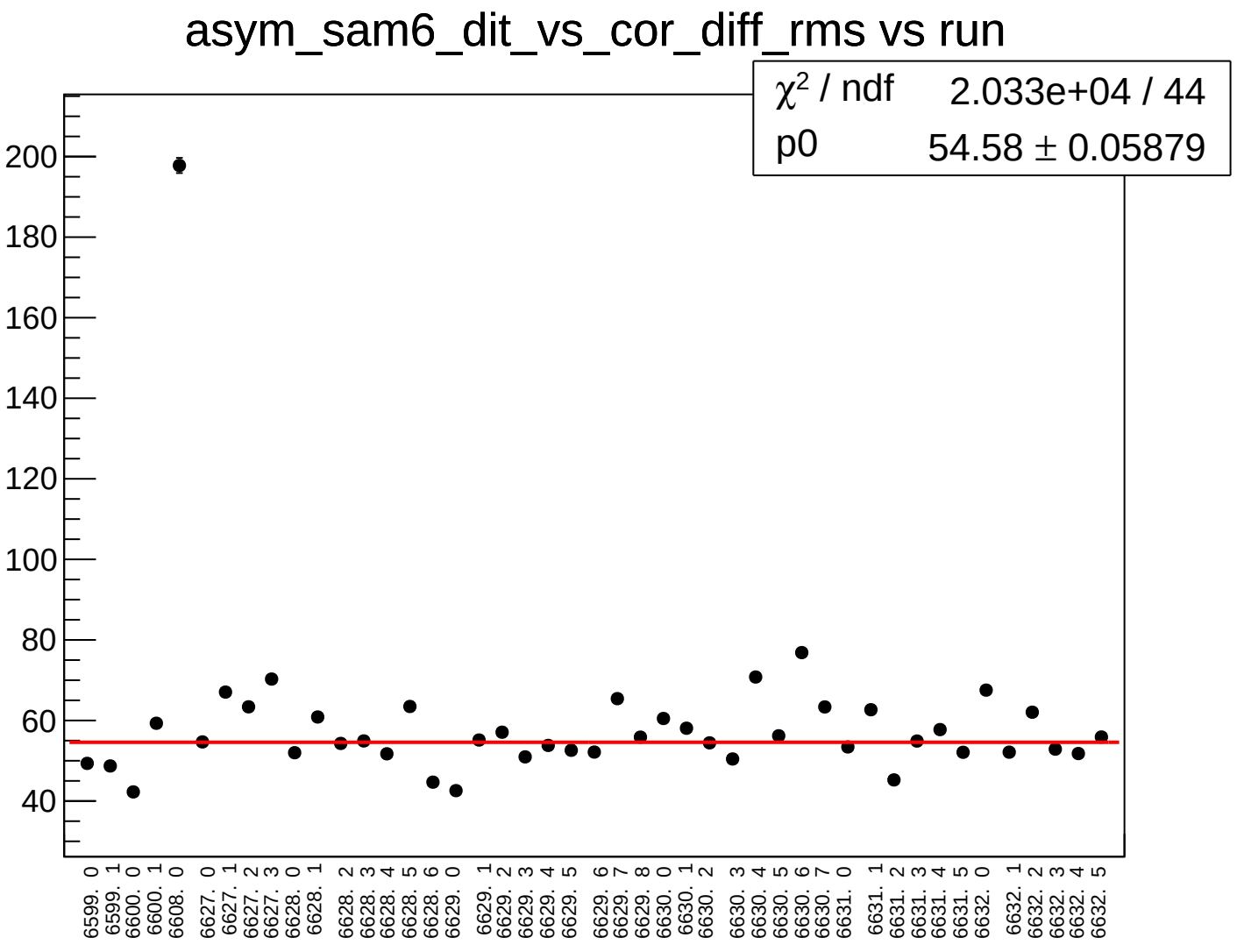

asym_sam6_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 54.51 / 44
p0 −1.156e−14 ± 3.993e−14
pull
Entries 45
Mean 23.18
Std Dev 14.85

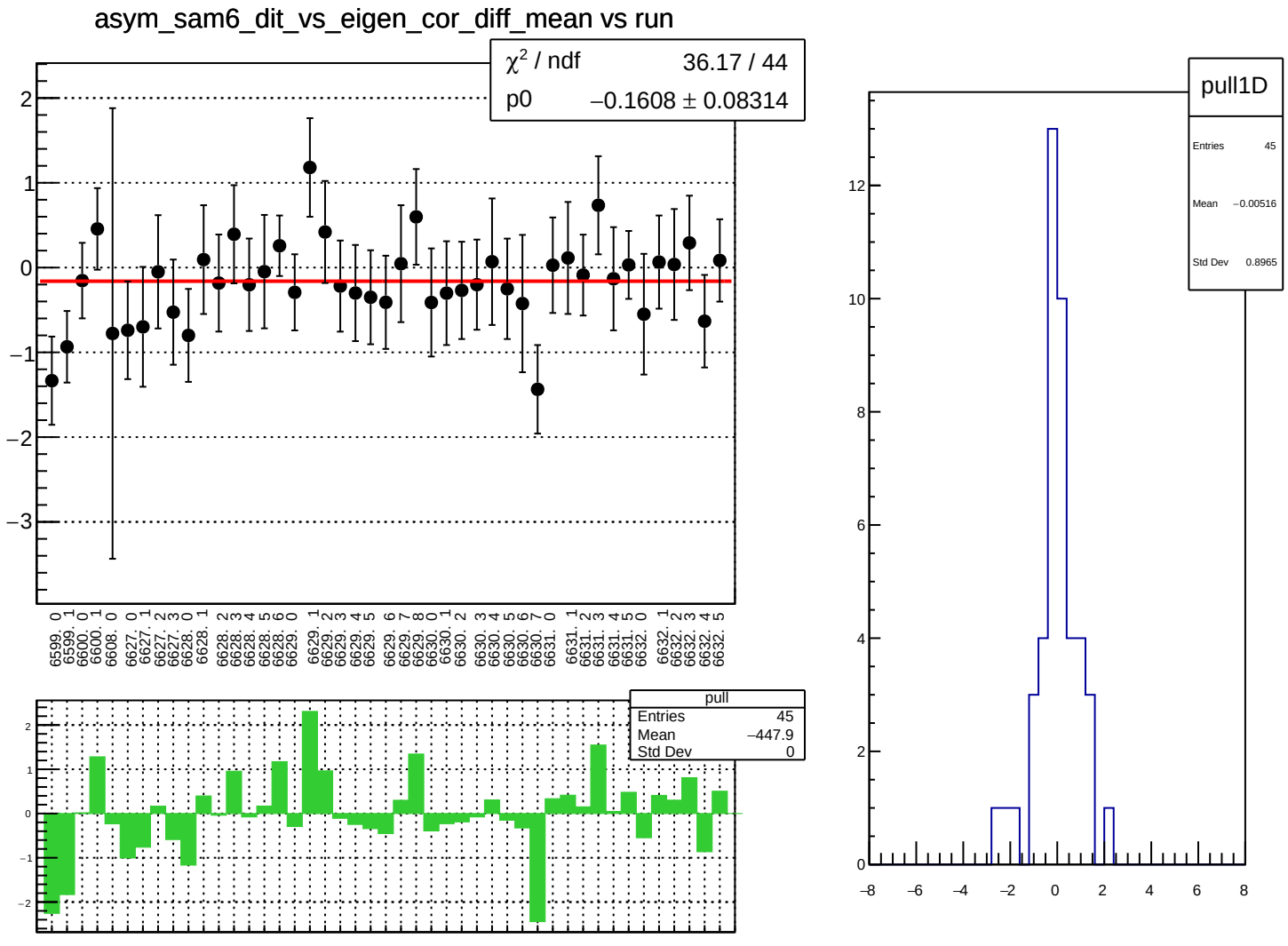

pull1D
Entries 45
Mean 0.2006
Std Dev 1.082

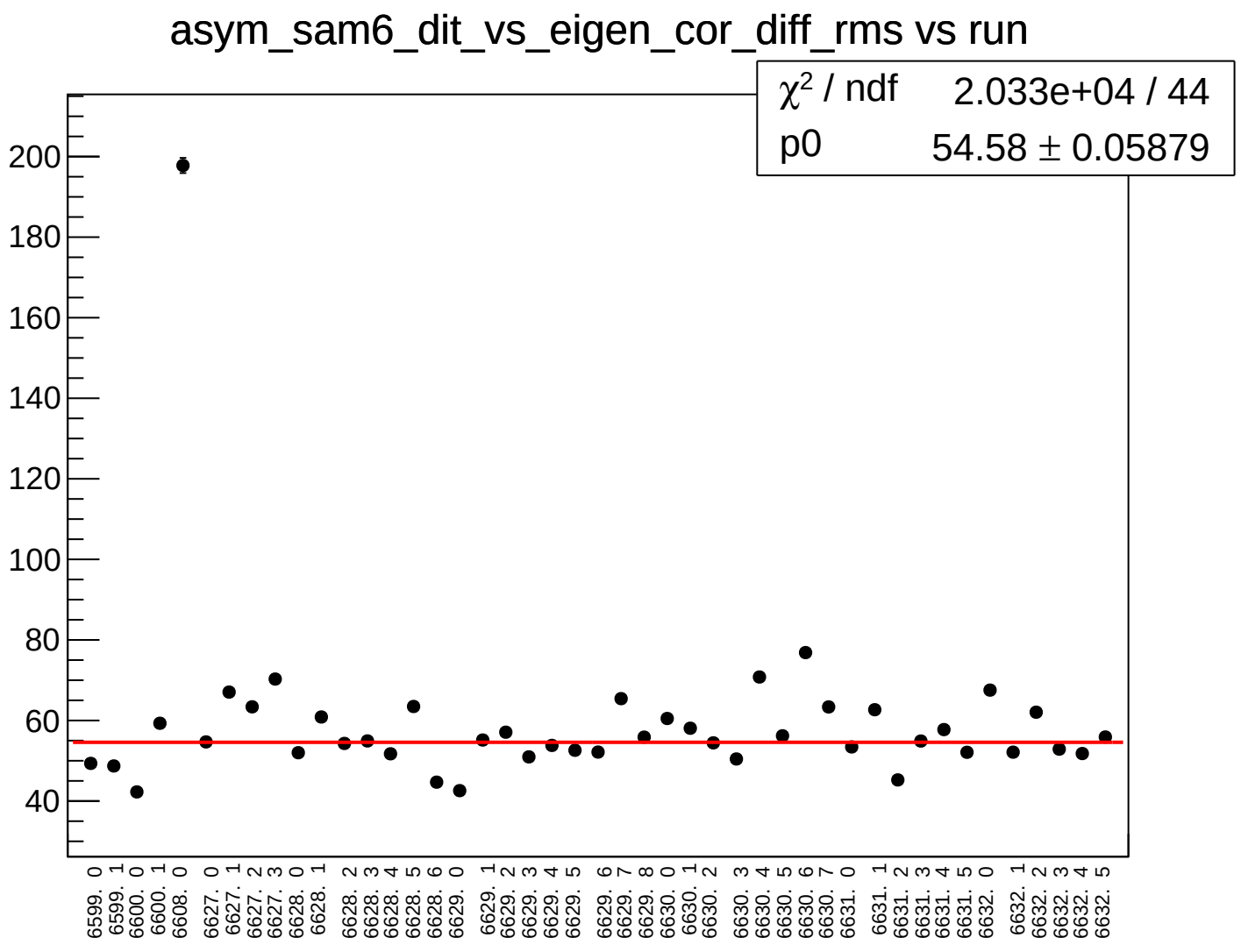

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 5.478e+05 / 44
p0 1.633e−11 ± 2.824e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

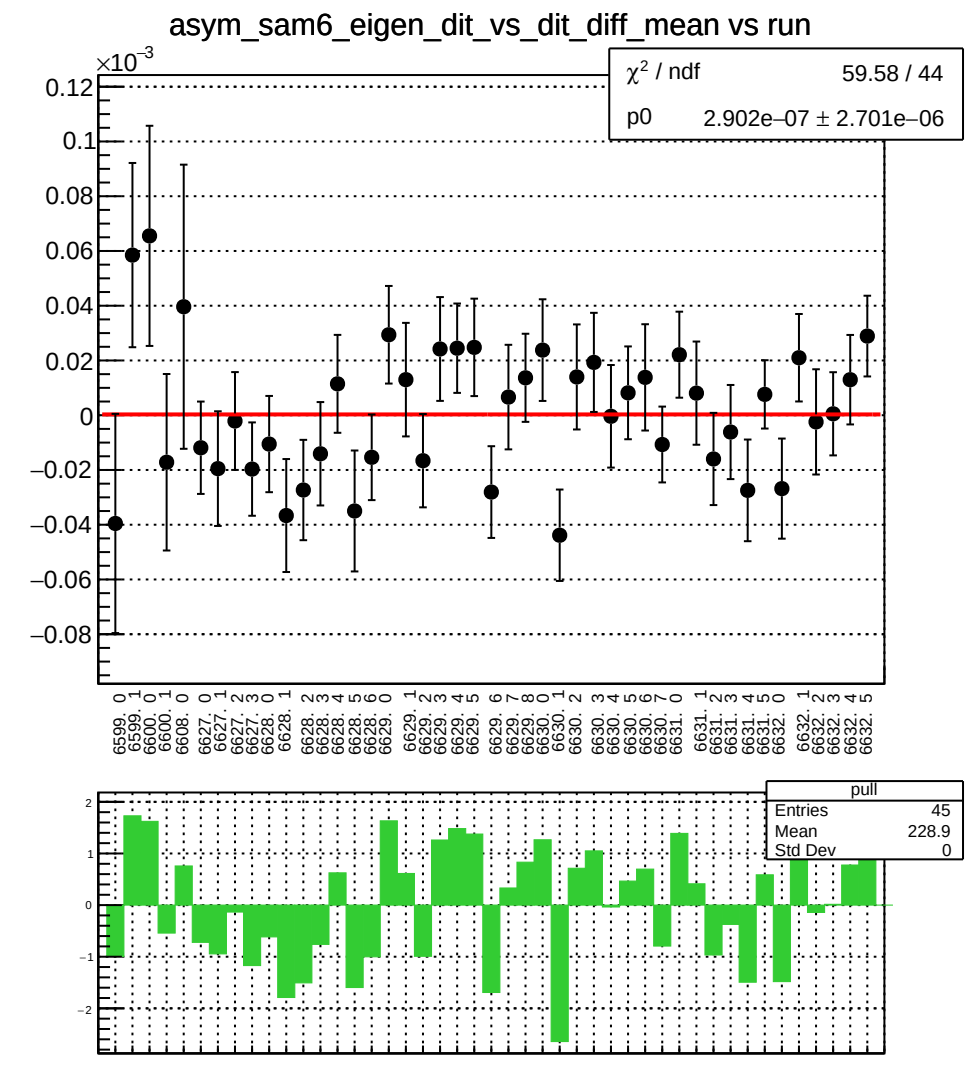

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 36.17 / 44
p0 −0.1608 ± 0.08314
pull
Entries 45
Mean −447.9
Std Dev 0

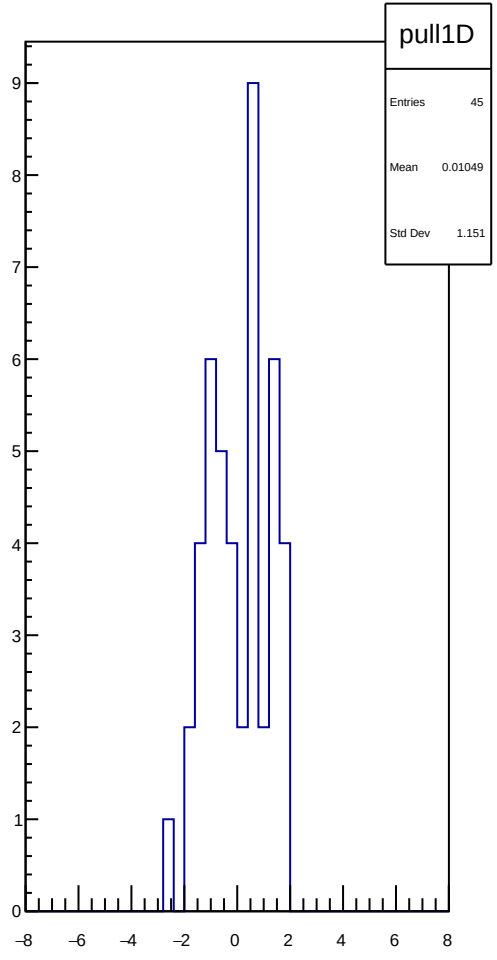

pull1D
Entries 45
Mean −0.00516
Std Dev 0.8965

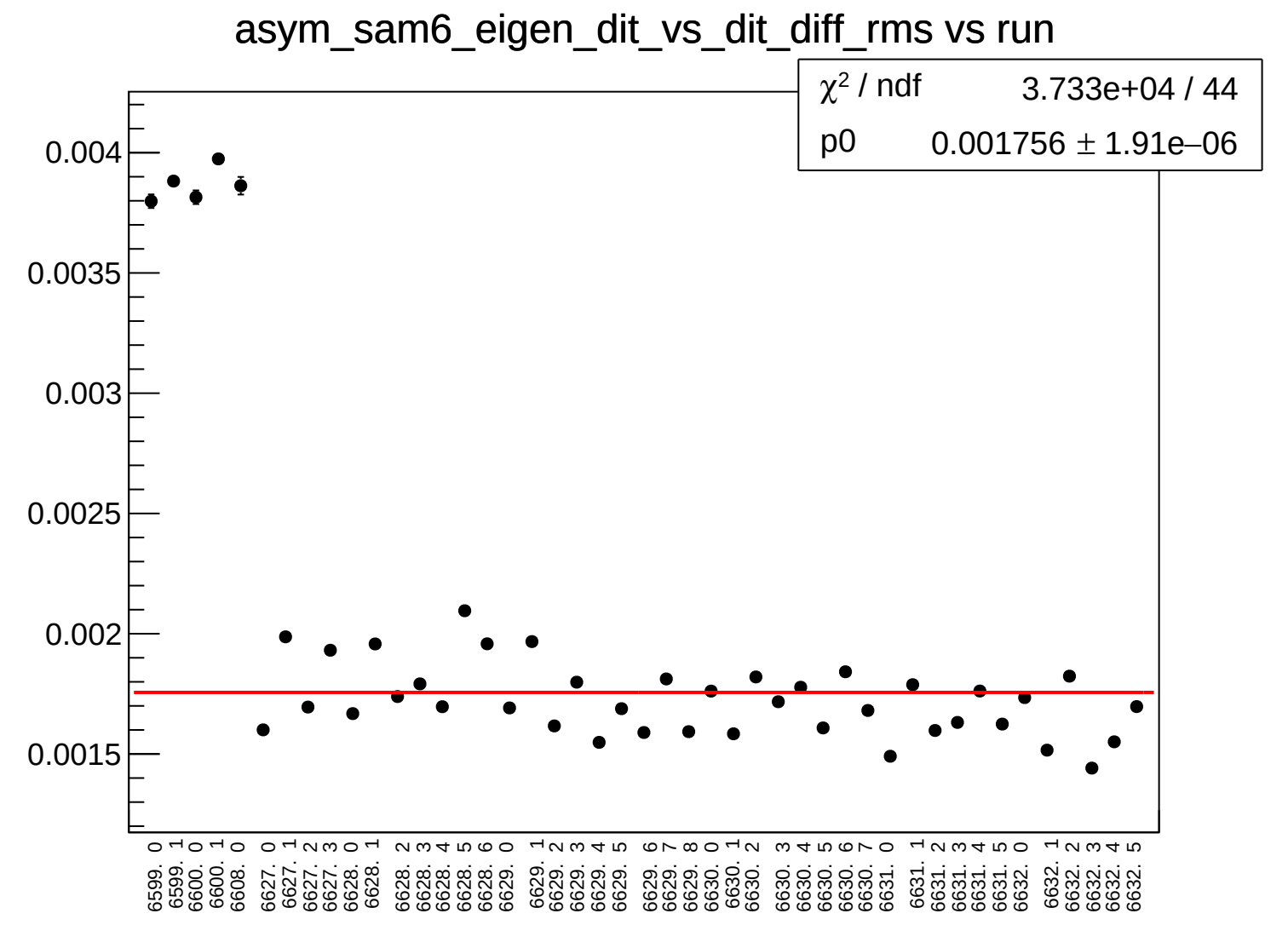

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 2.033e+04 / 44
p0 54.58 ± 0.05879
200
180
160
140
120
100
80
60
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

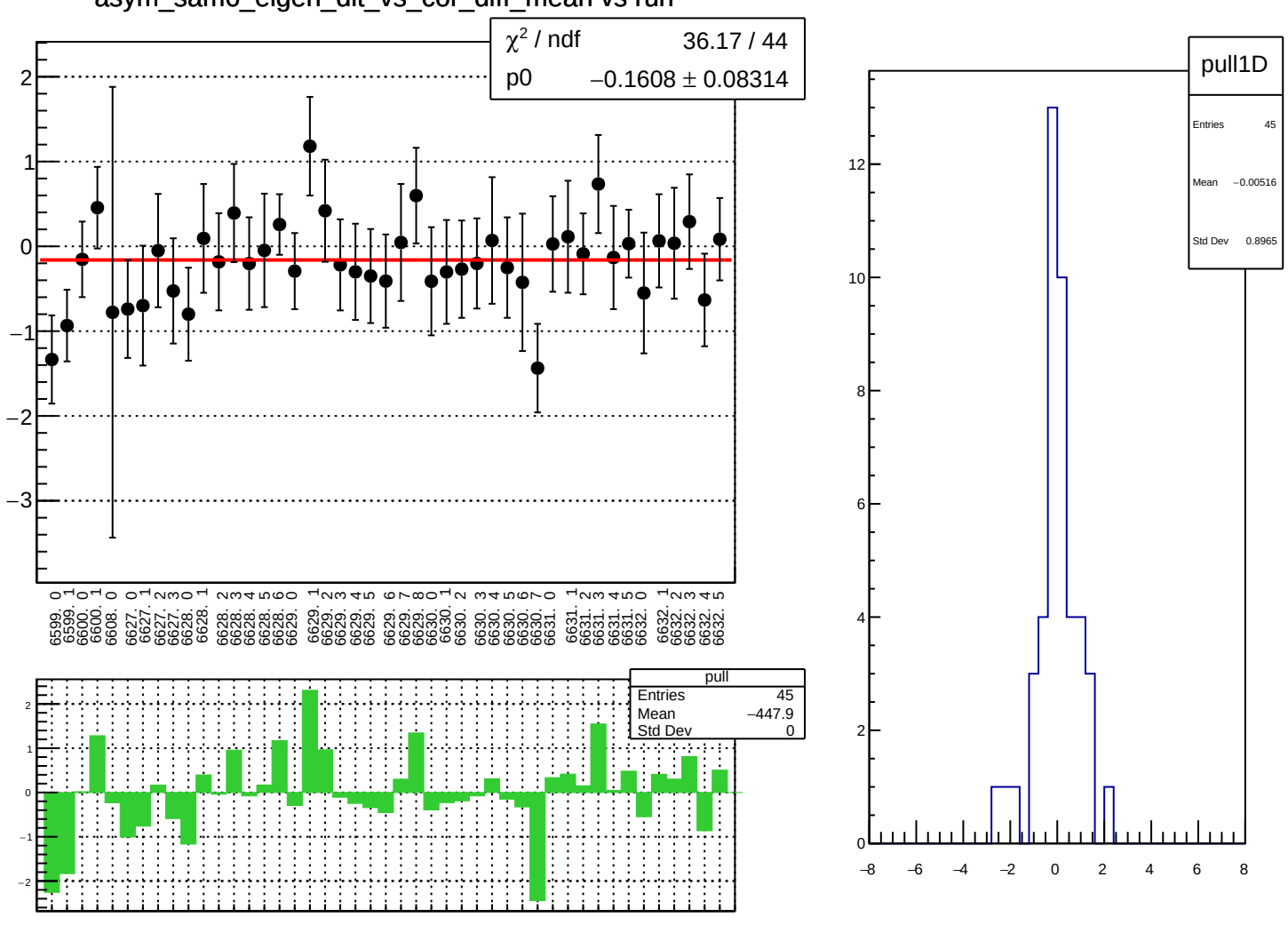

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.17 / 44
p0 −0.1608 ± 0.08314
pull
Entries 45
Mean −447.9
Std Dev 0
pull1D
Entries 45
Mean −0.00516
Std Dev 0.8965

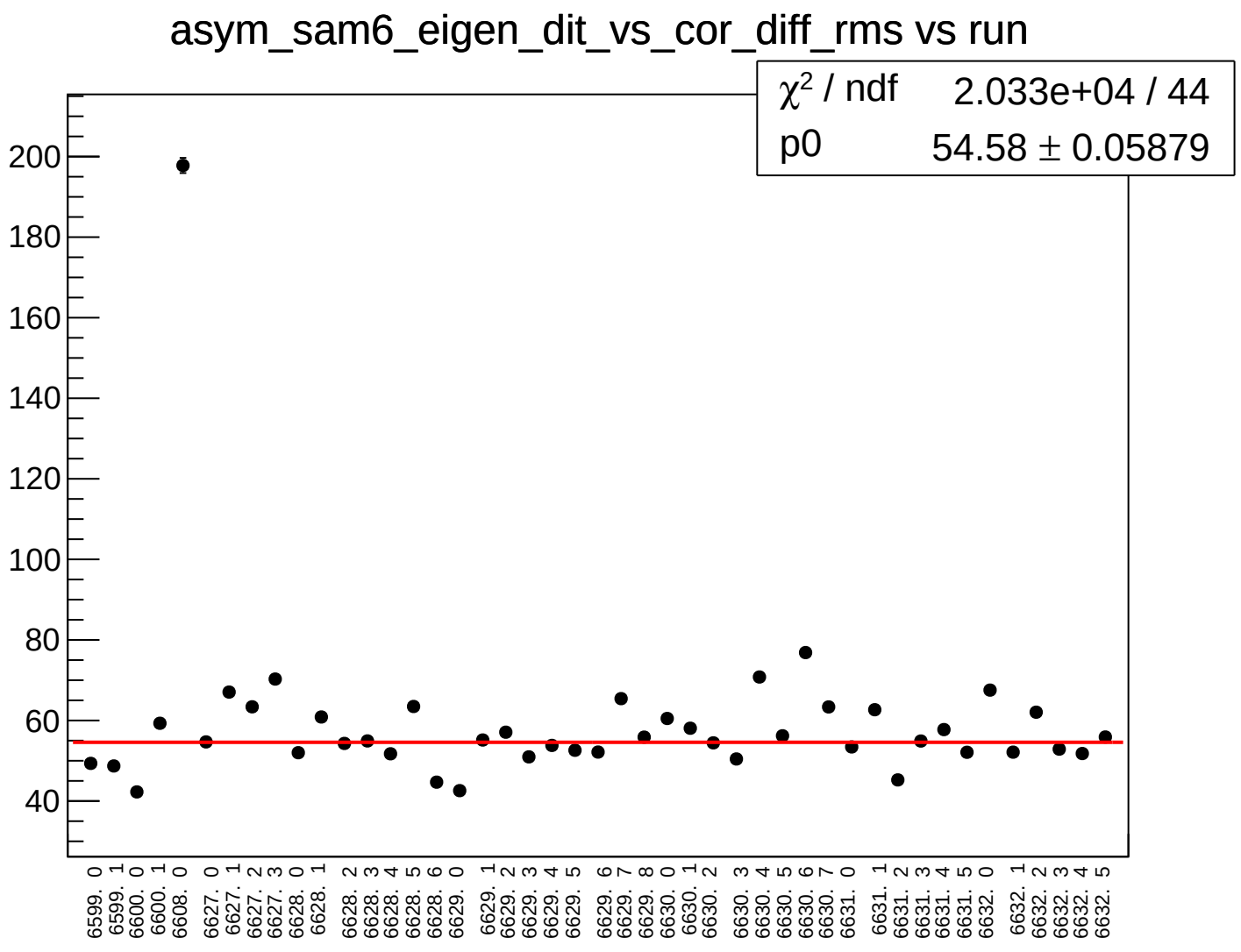

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.033e+04 / 44
p0 54.58 ± 0.05879
200
180
160
140
120
100
80
60
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

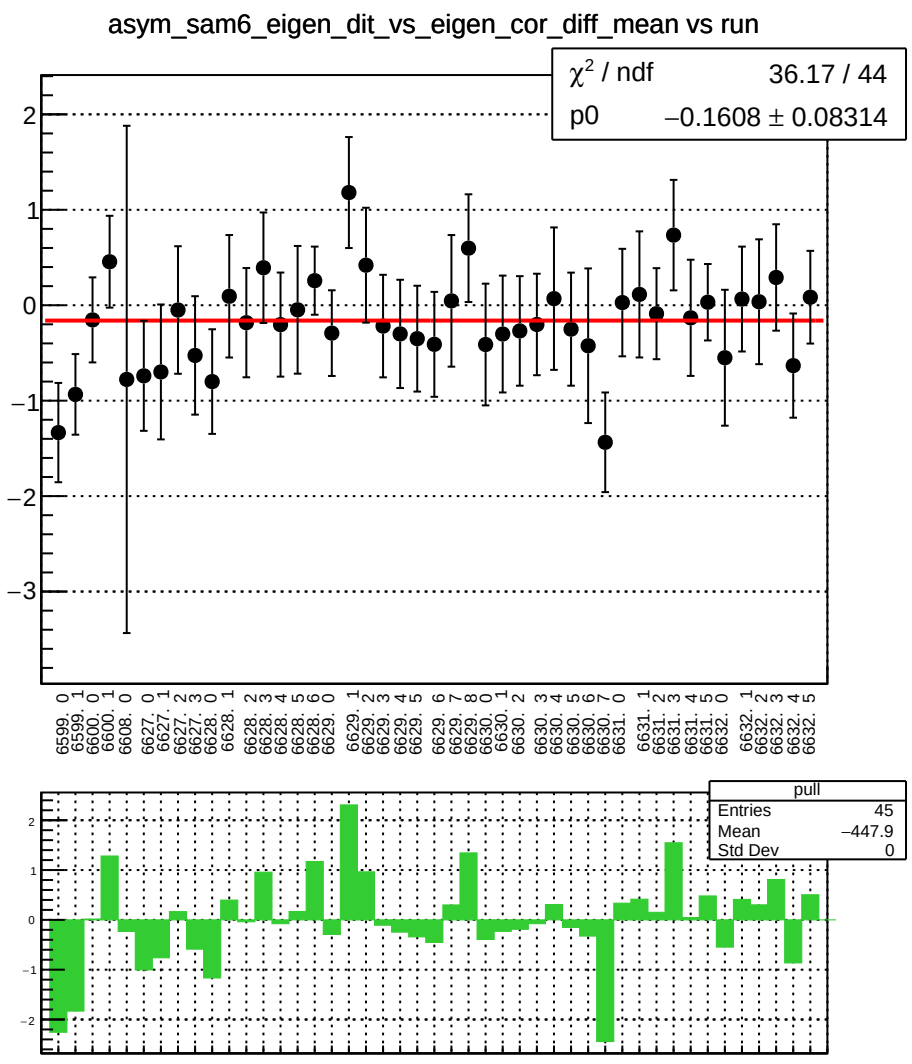

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 59.58 / 44
p0 2.902e−07 ± 2.701e−06
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 228.9
Std Dev 0
2
1
0
−1
−2

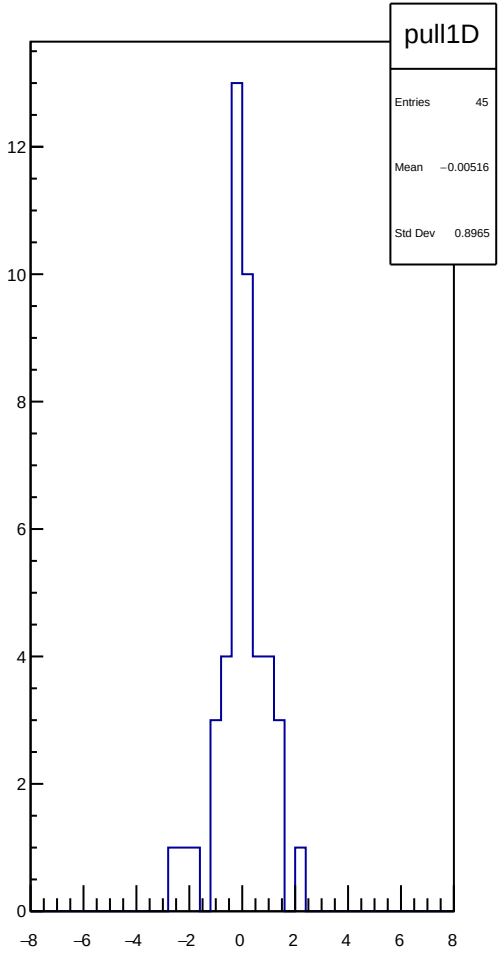

pull1D
Entries 45
Mean 0.01049
Std Dev 1.151
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

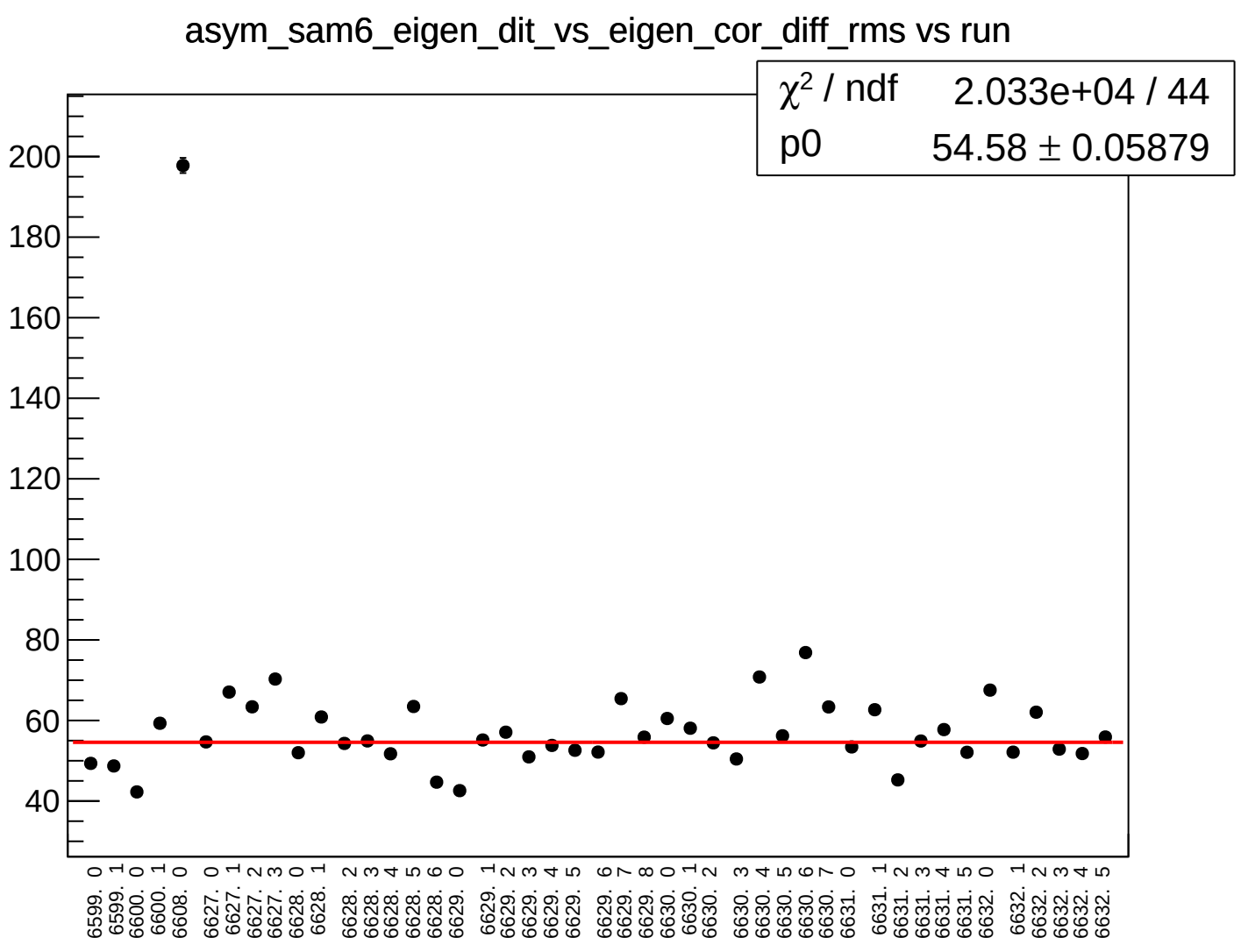

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.733e+04 / 44
p0 0.001756 ± 1.91e–06
0.004
0.0035
0.003
0.0025
0.002
0.0015
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

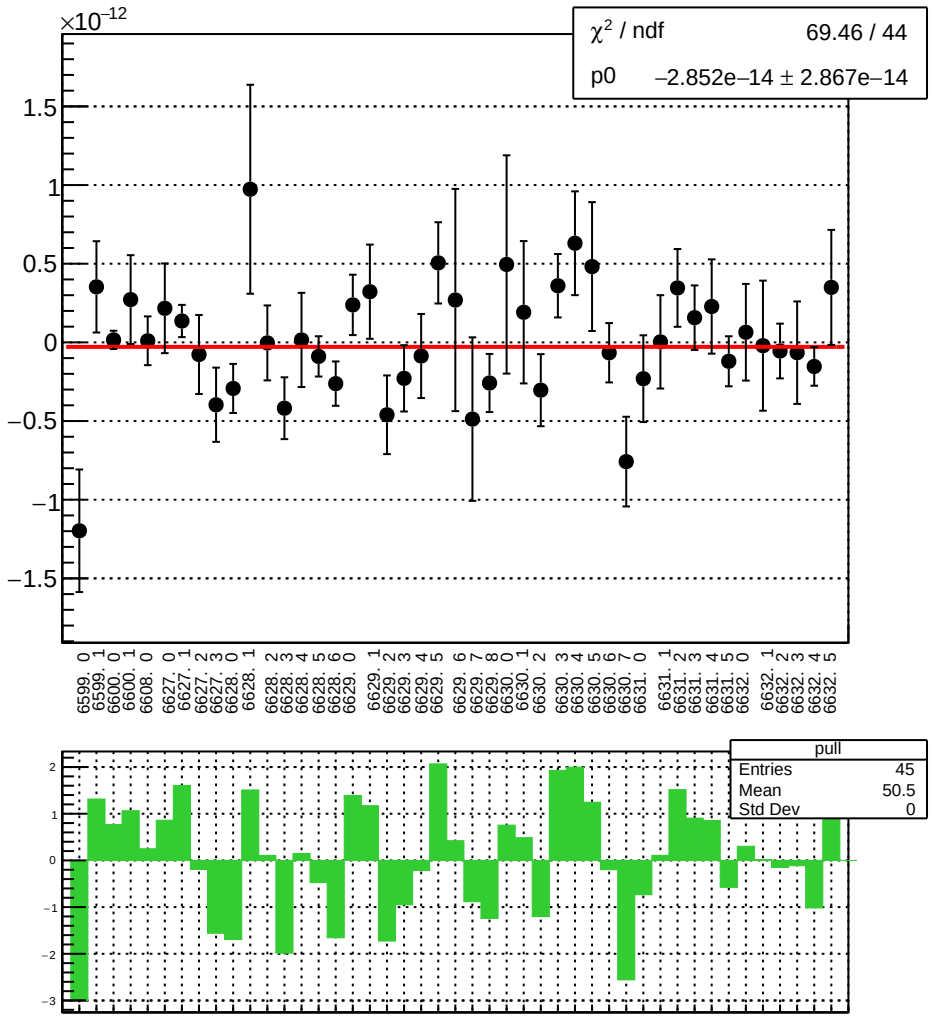

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 36.17 / 44
p0 −0.1608 ± 0.08314
pull
Entries 45
Mean −447.9
Std Dev 0
pull1D
Entries 45
Mean −0.00516
Std Dev 0.8965

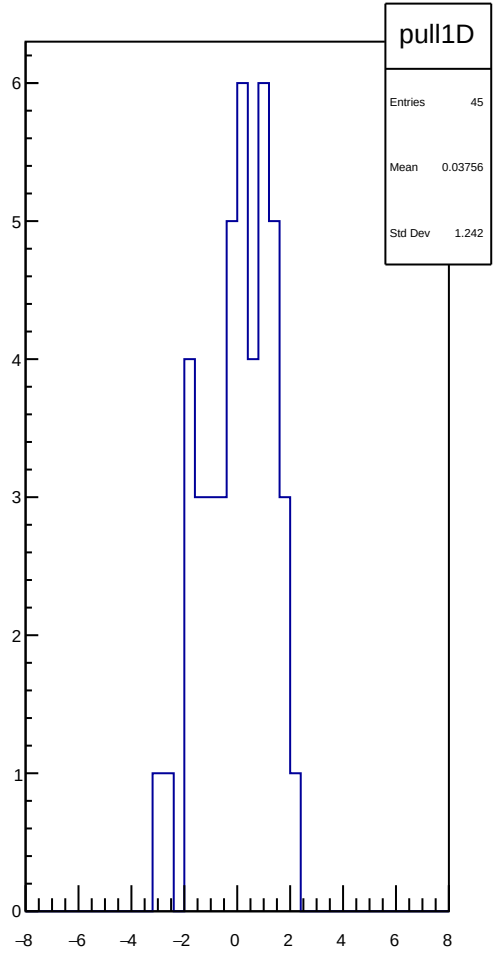

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.033e+04 / 44
p0 54.58 ± 0.05879
200
180
160
140
120
100
80
60
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

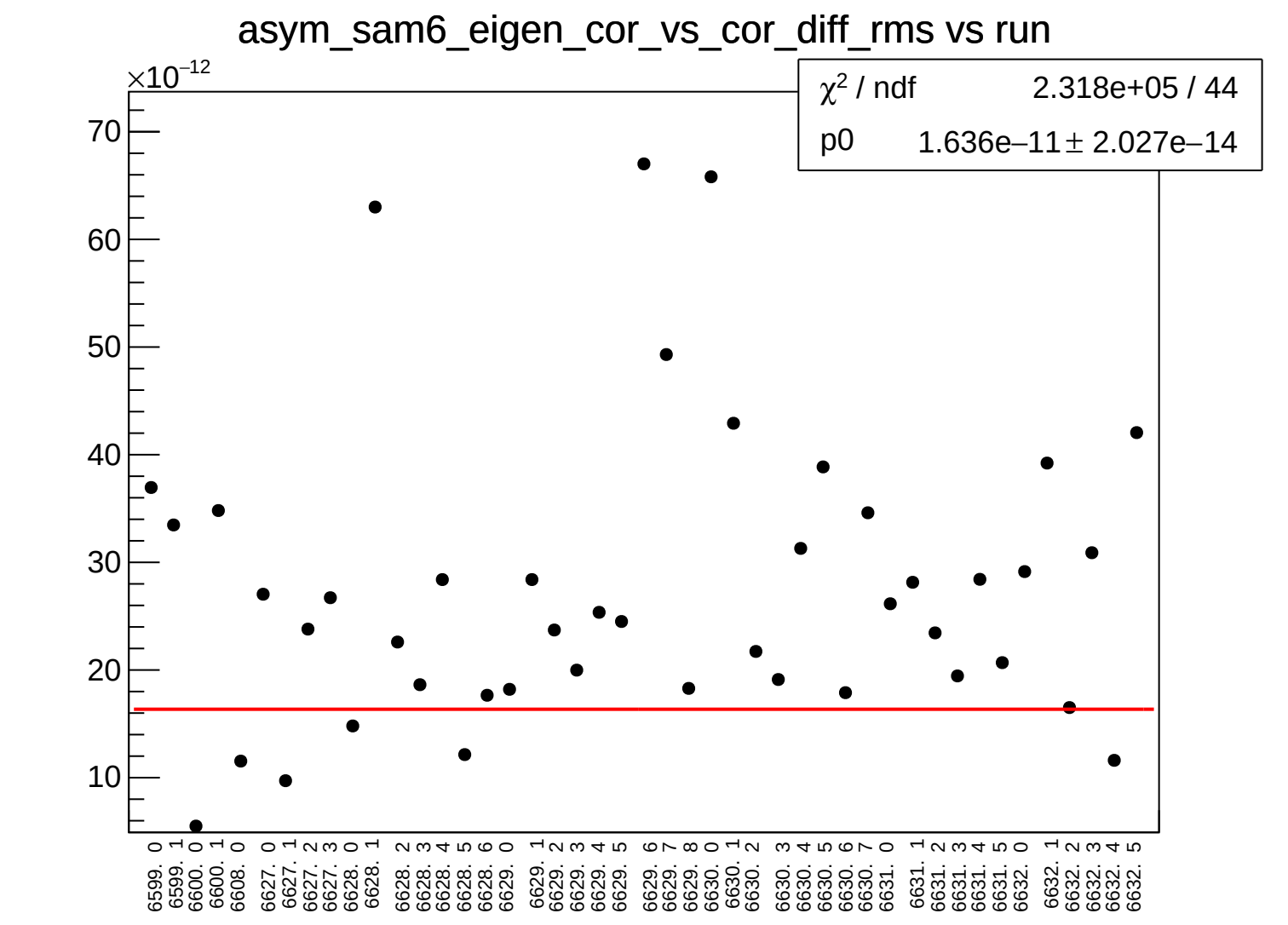

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.17 / 44
p0 −0.1608 ± 0.08314
pull
Entries 45
Mean −447.9
Std Dev 0

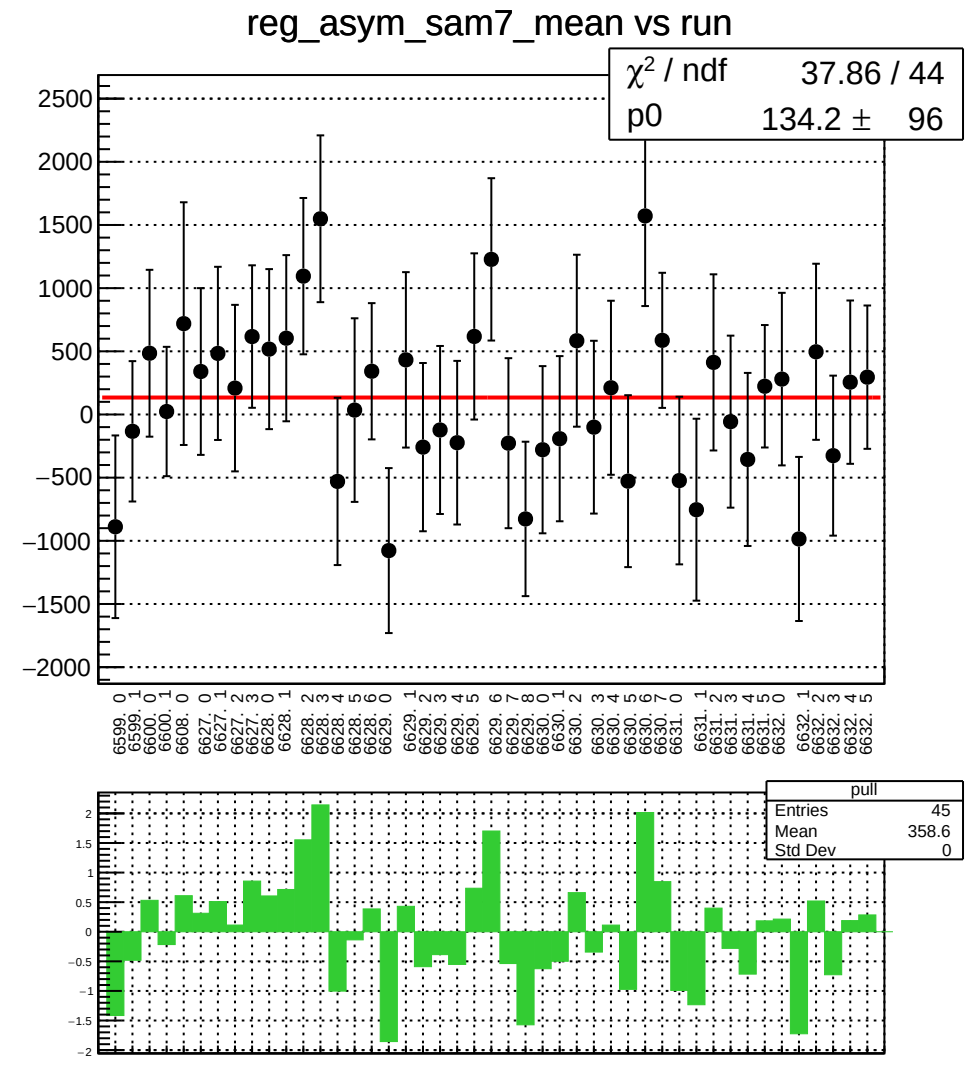

pull1D
Entries 45
Mean −0.00516
Std Dev 0.8965

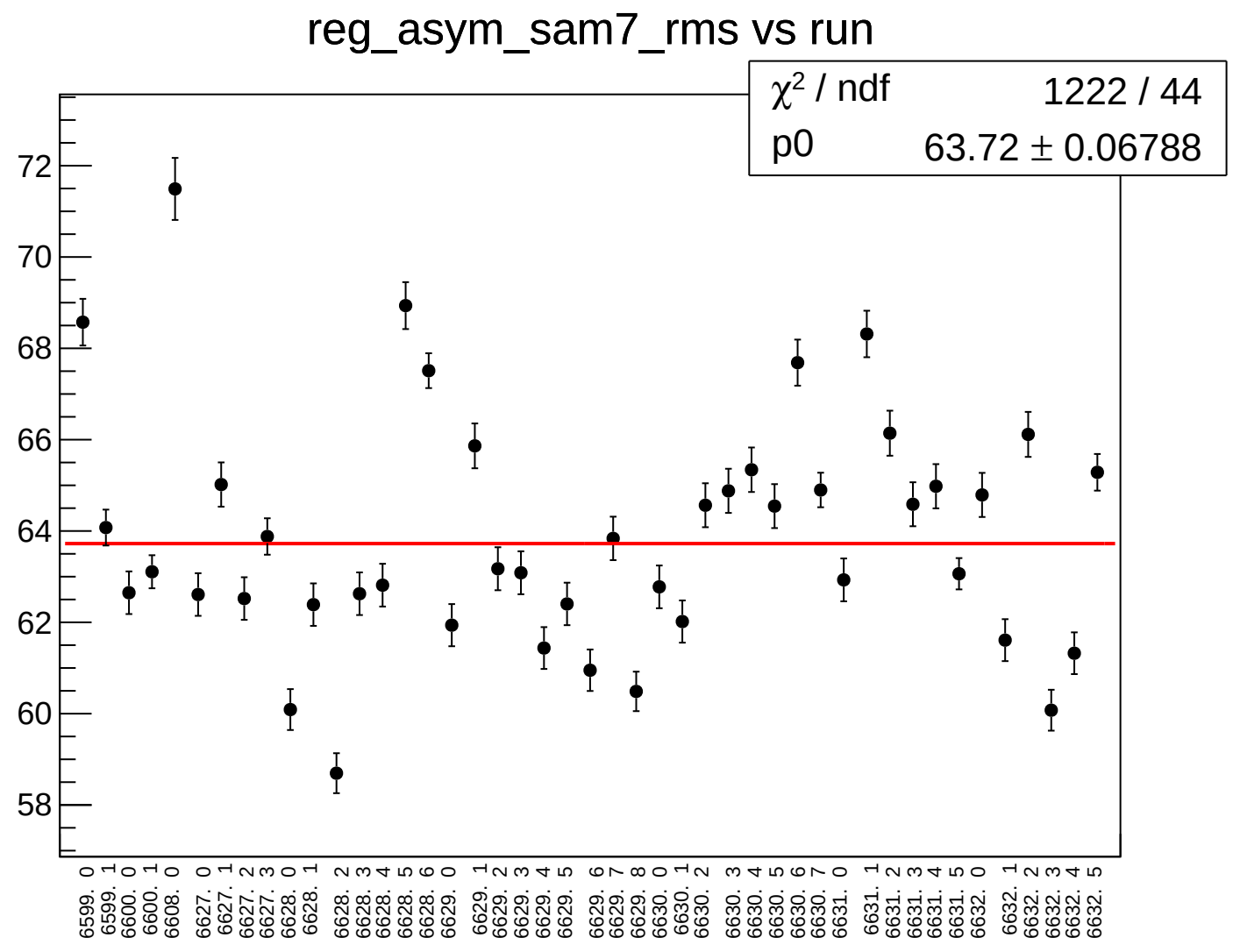

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.033e+04 / 44
p0 54.58 ± 0.05879
200
180
160
140
120
100
80
60
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

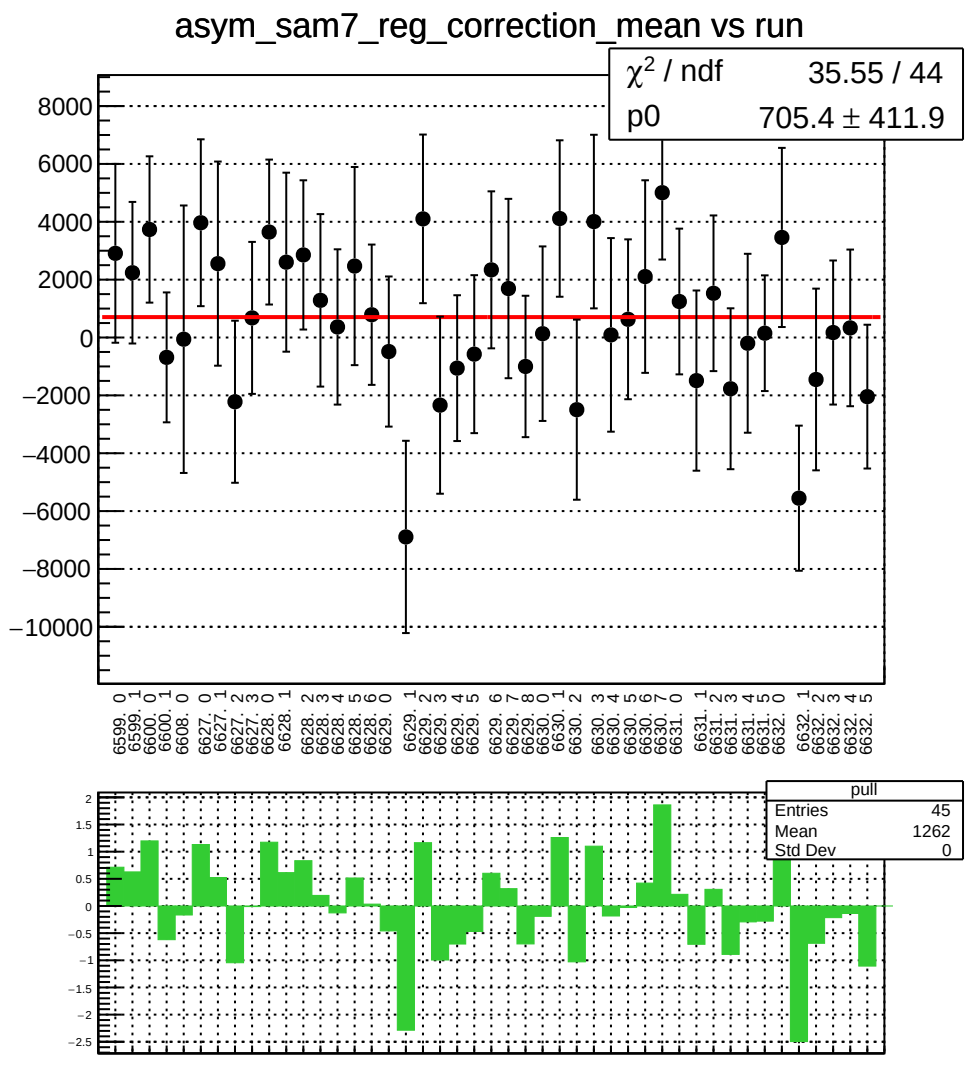

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.46 / 44
p0 −2.852e−14 ± 2.867e−14
1.5
1
0.5
0
−0.5
−1
−1.5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 50.5
Std Dev 0
2
1
0
−1
−2
−3

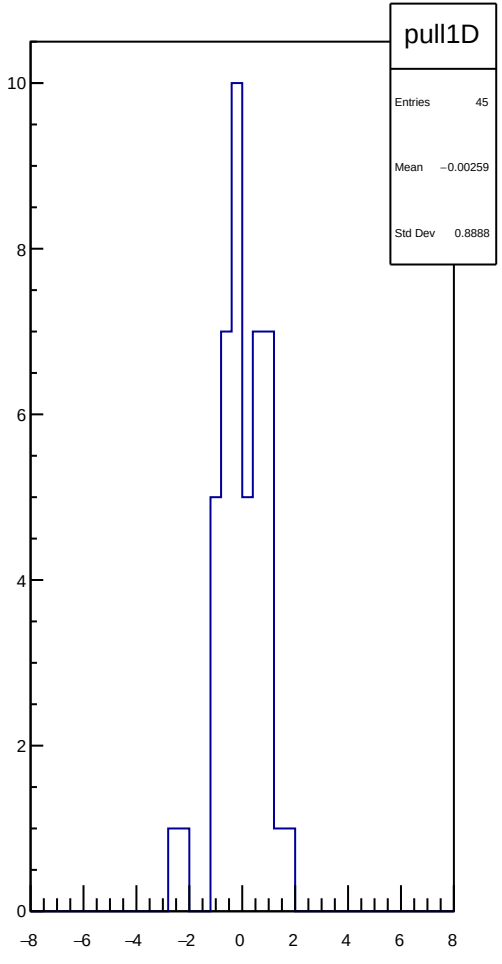

pull1D
Entries 45
Mean 0.03756
Std Dev 1.242
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

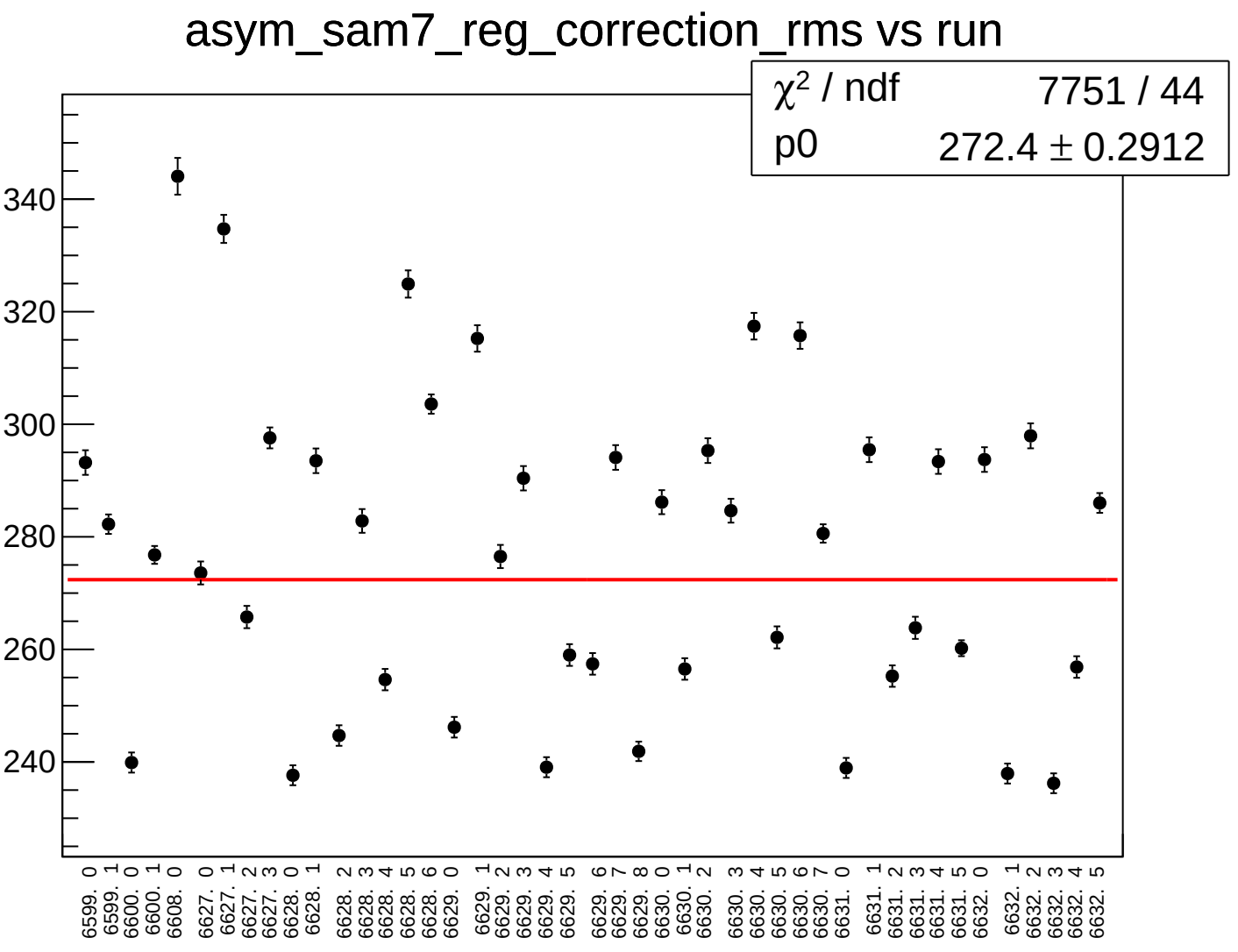

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.318e+05 / 44
p0 1.636e−11 ± 2.027e−14
70
60
50
40
30
20
10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

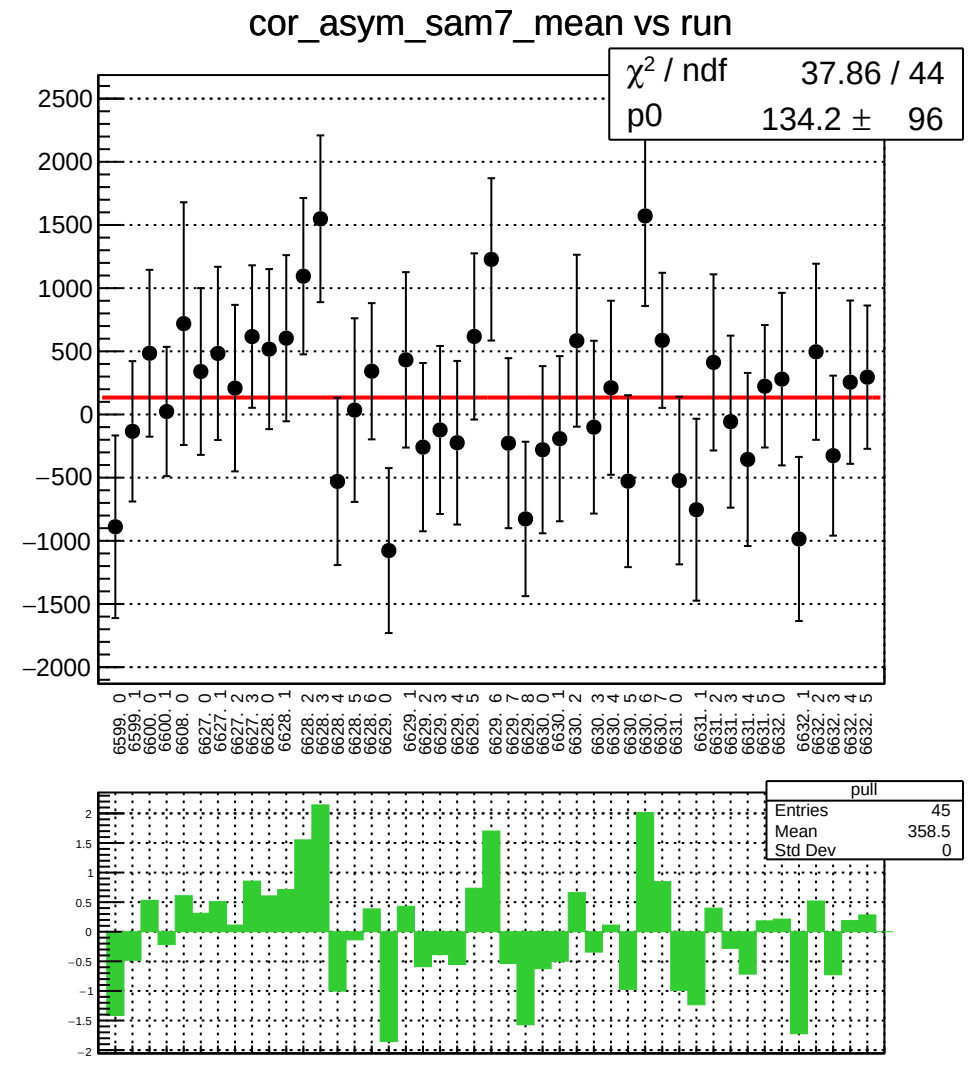

reg_asym_sam7_mean vs run
χ² / ndf 37.86 / 44
p0 134.2 ± 96
pull
Entries 45
Mean 358.6
Std Dev 0
pull1D
Entries 45
Mean −0.00521
Std Dev 0.9173

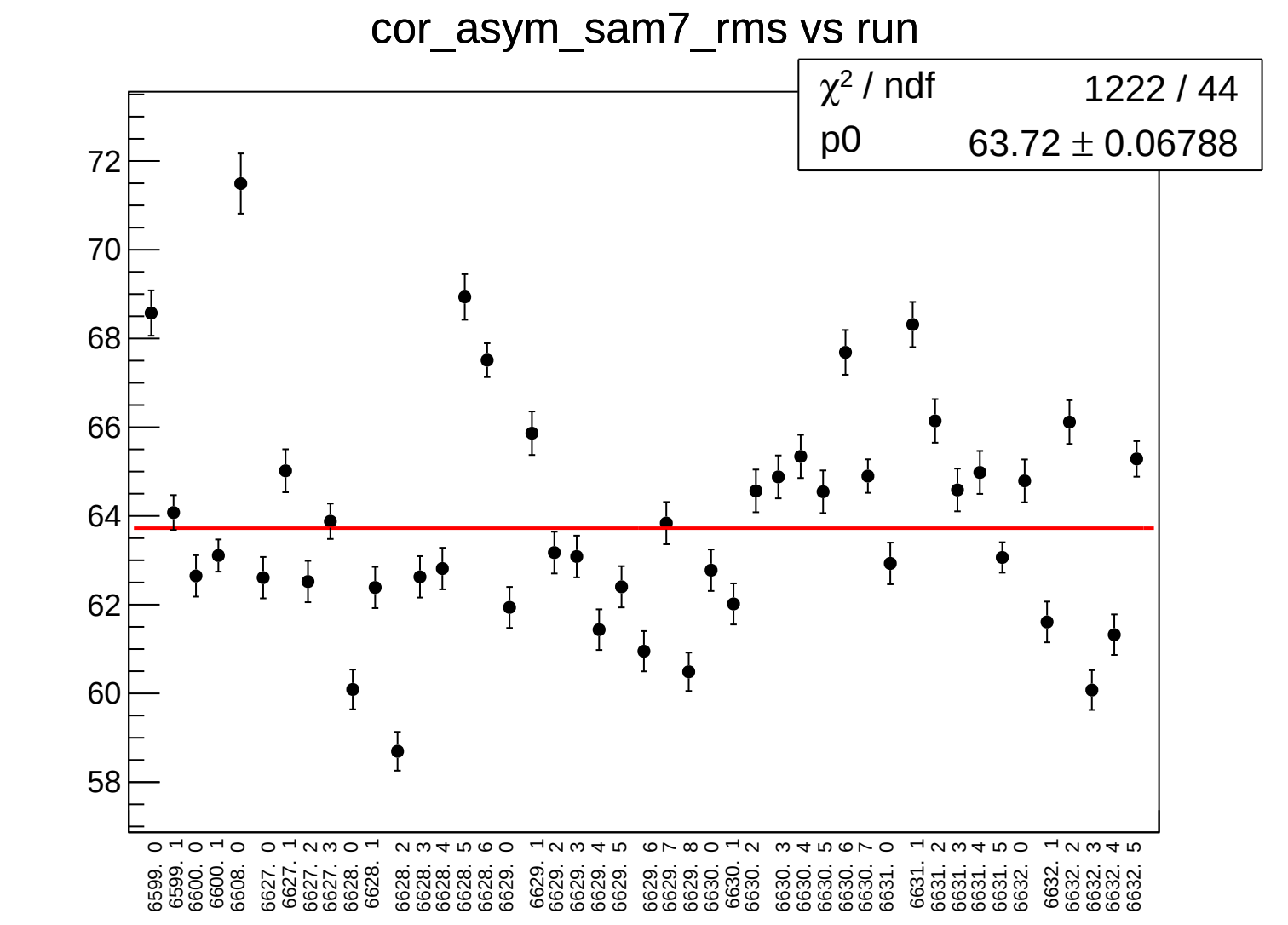

reg_asym_sam7_rms vs run
χ² / ndf 1222 / 44
p0 63.72 ± 0.06788
72
70
68
66
64
62
60
58
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam7_reg_correction_mean vs run
χ² / ndf 35.55 / 44
p0 705.4 ± 411.9
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 1262
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean −0.00259
Std Dev 0.8888
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam7_reg_correction_rms vs run
χ² / ndf 7751 / 44
p0 272.4 ± 0.2912
340
320
300
280
260
240
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_sam7_mean vs run
χ² / ndf 37.86 / 44
p0 134.2 ± 96
pull
Entries 45
Mean 358.5
Std Dev 0
pull1D
Entries 45
Mean −0.005211
Std Dev 0.9173


cor_asym_sam7_rms vs run
χ² / ndf 1222 / 44
p0 63.72 ± 0.06788
72
70
68
66
64
62
60
58
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6630. 6
6630. 7
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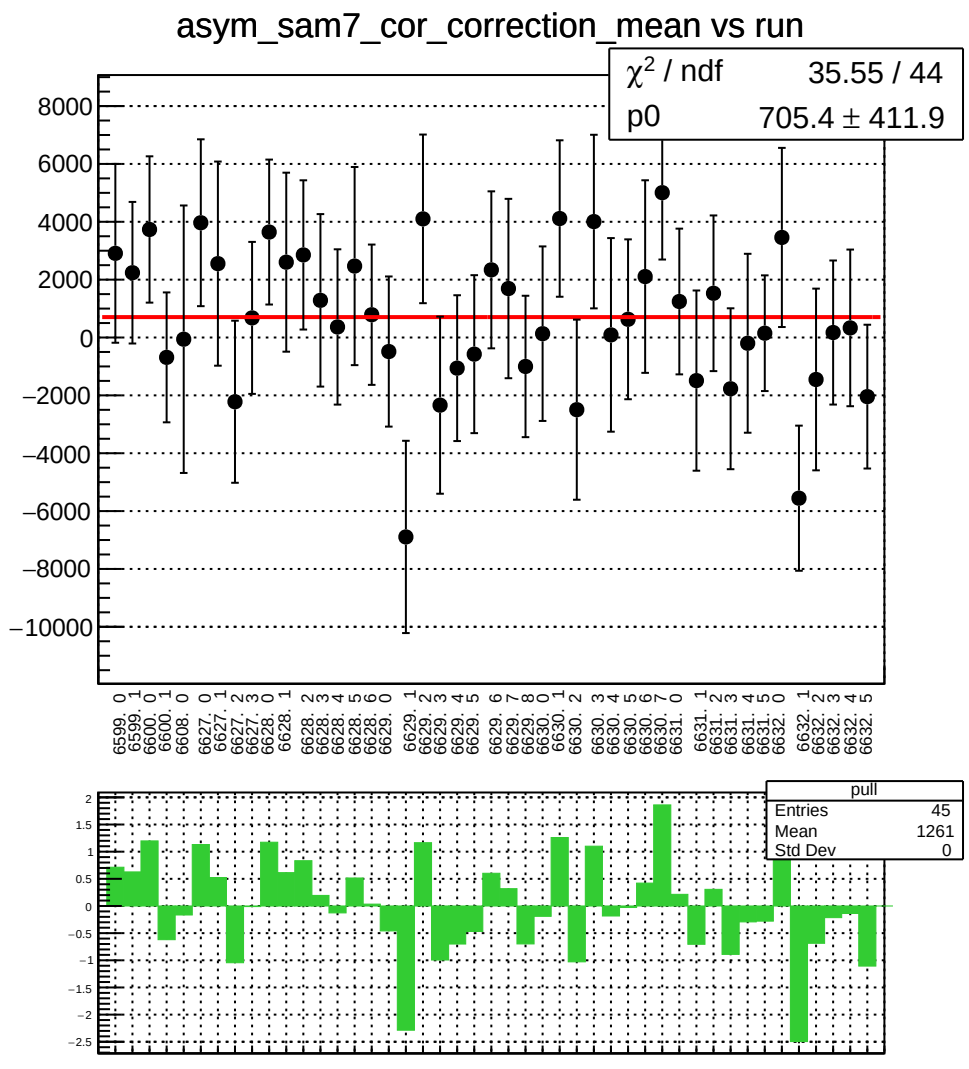
asym_sam7_cor_correction_mean vs run
χ² / ndf 35.55 / 44
p0 705.4 ± 411.9
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6628. 2
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6629. 8
6630. 0
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6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
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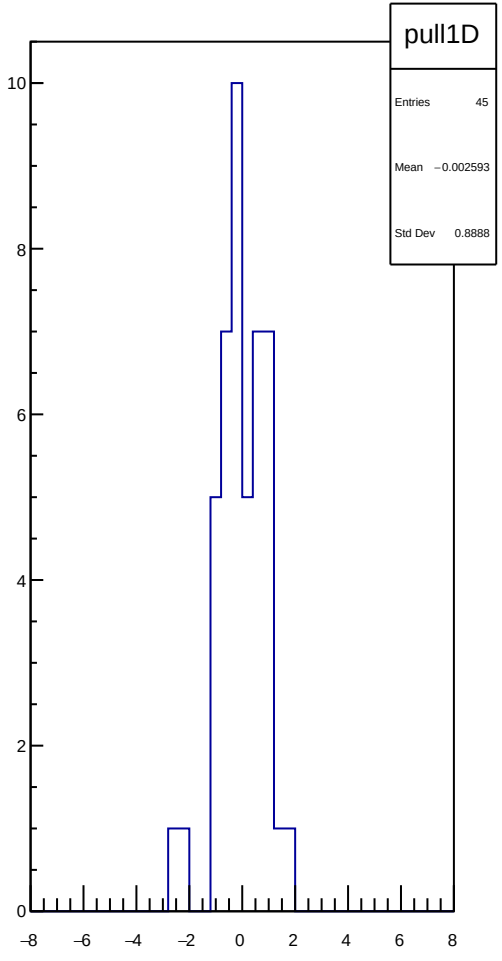
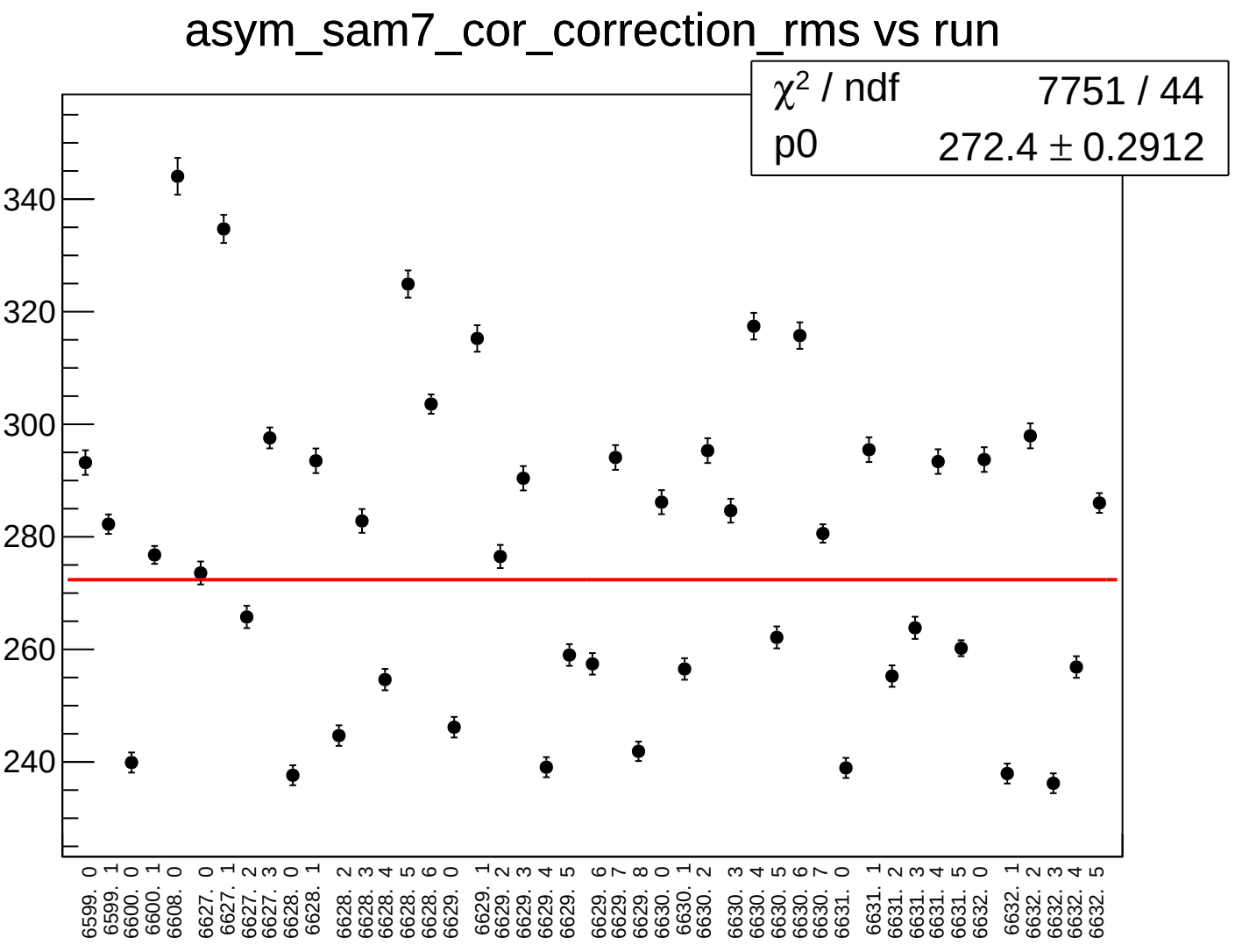
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 1261
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean −0.002593
Std Dev 0.8888
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam7_cor_correction_rms vs run
χ² / ndf 7751 / 44
p0 272.4 ± 0.2912
340
320
300
280
260
240
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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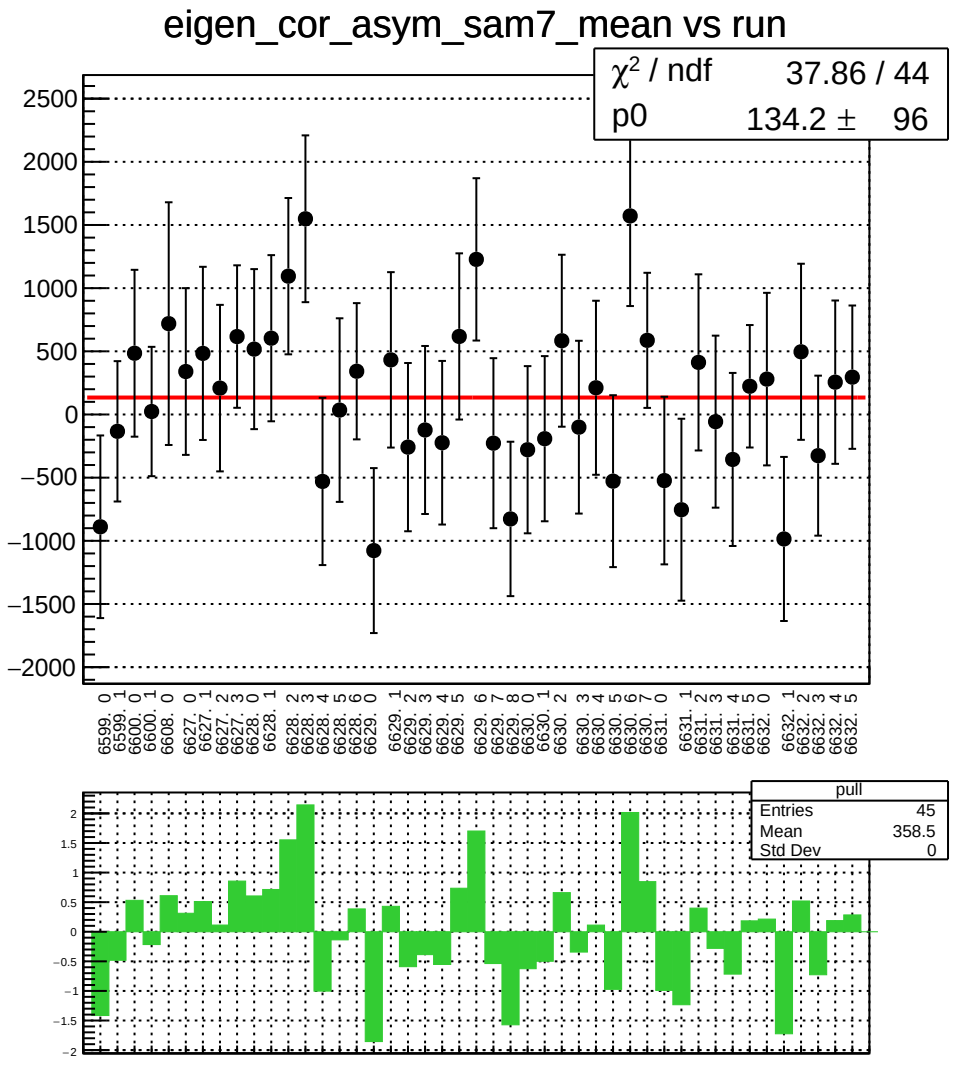
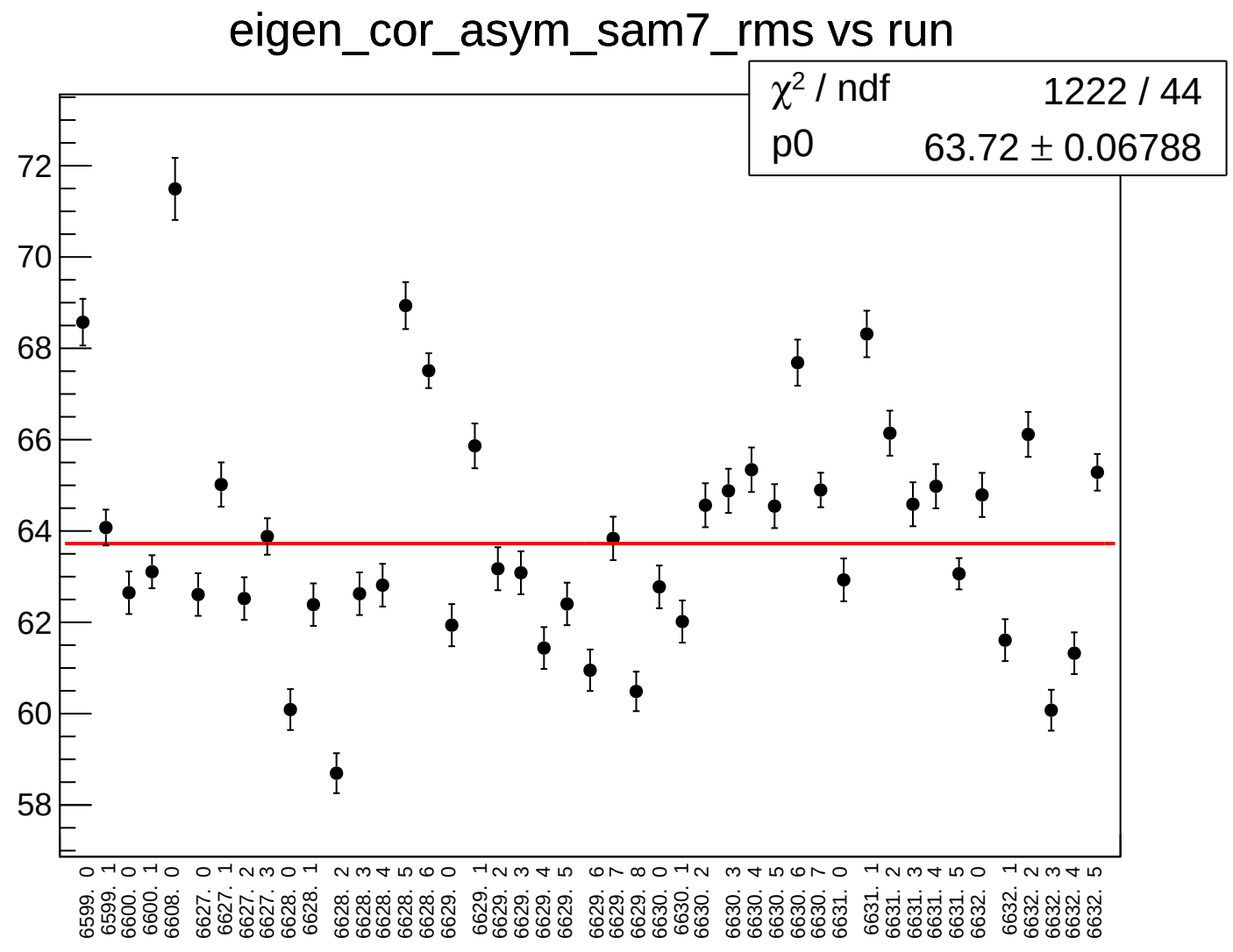

eigen_cor_asym_sam7_mean vs run
χ² / ndf 37.86 / 44
p0 134.2 ± 96
pull
Entries 45
Mean 358.5
Std Dev 0
pull1D
Entries 45
Mean −0.005211
Std Dev 0.9173


eigen_cor_asym_sam7_rms vs run
χ² / ndf 1222 / 44
p0 63.72 ± 0.06788
72
70
68
66
64
62
60
58
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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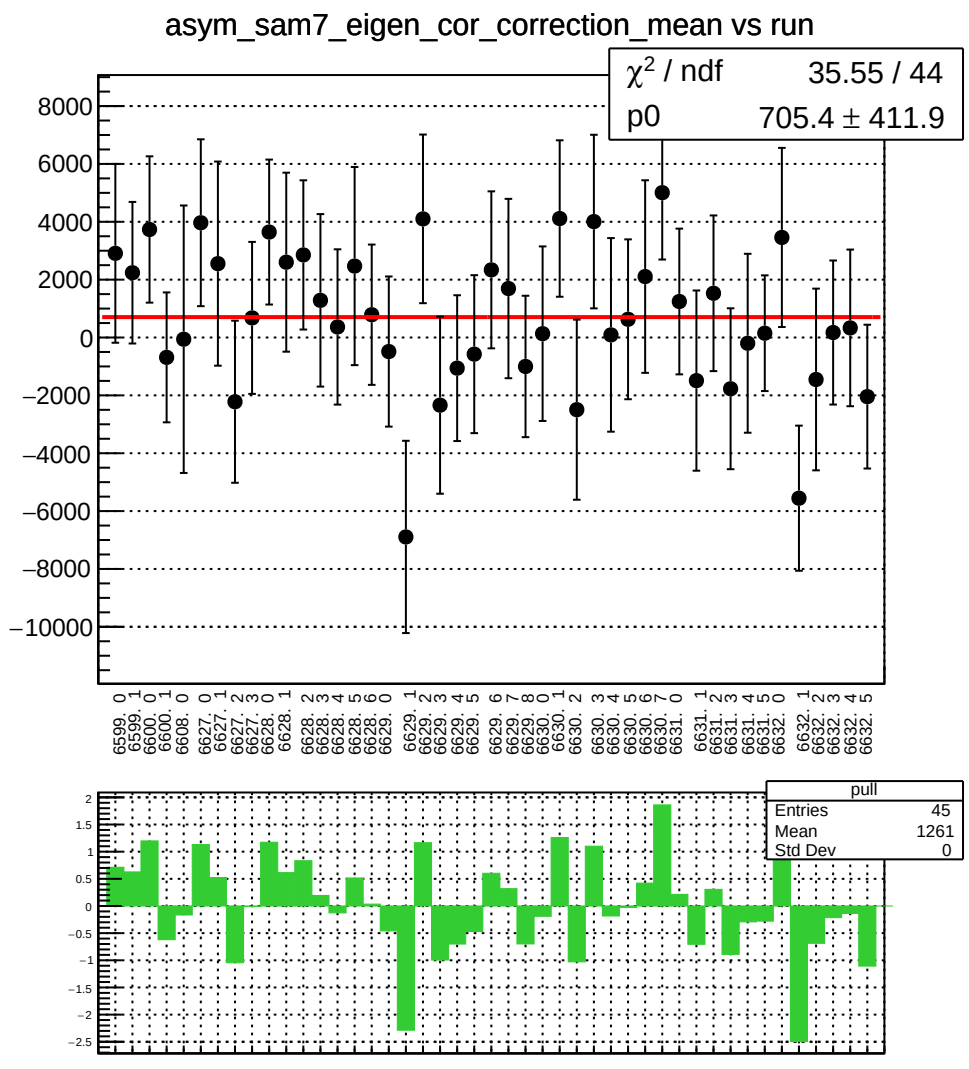
asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 35.55 / 44
p0 705.4 ± 411.9
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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6630. 6
6630. 7
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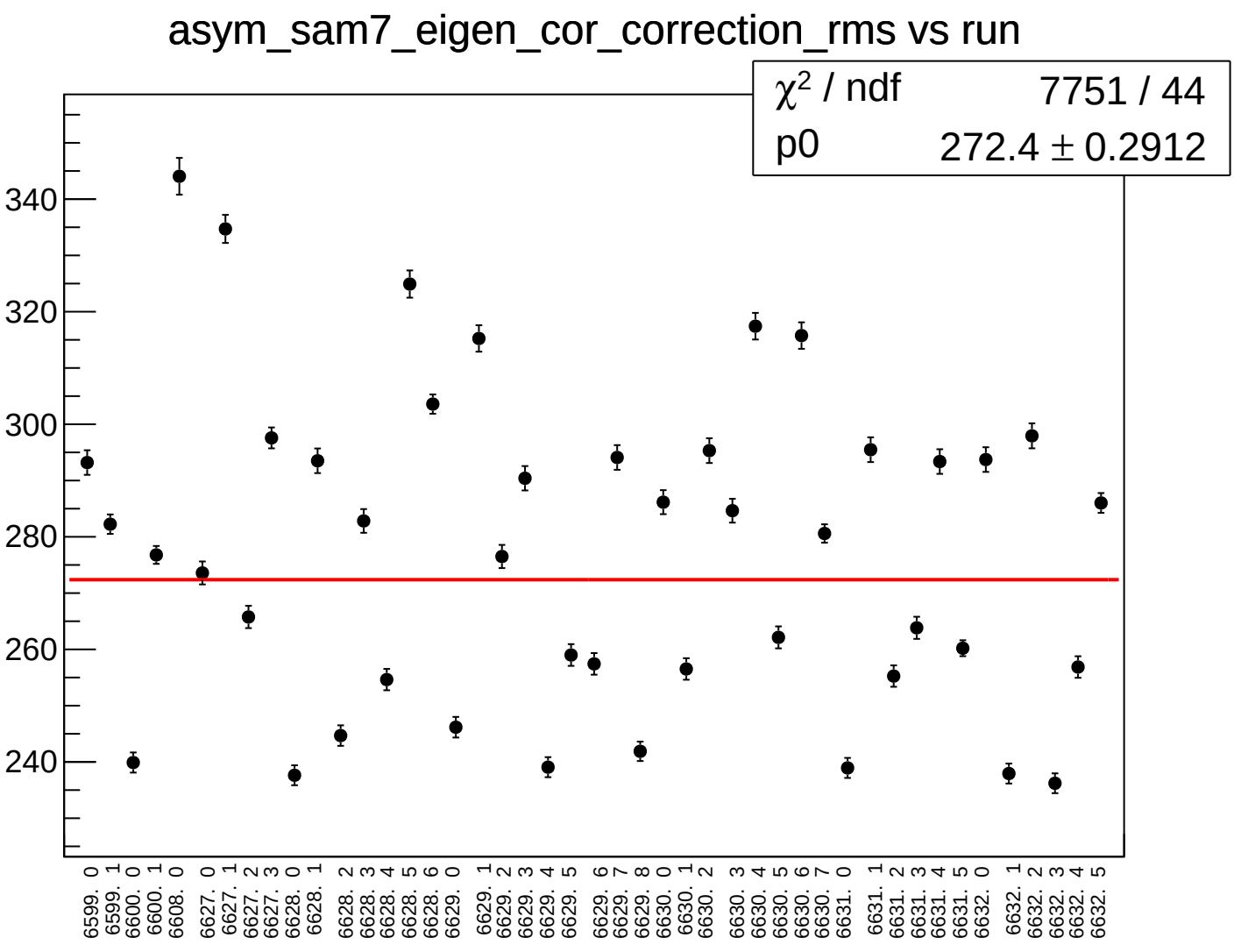
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 1261
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.002593
Std Dev 0.8888
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 7751 / 44
p0 272.4 ± 0.2912
340
320
300
280
260
240
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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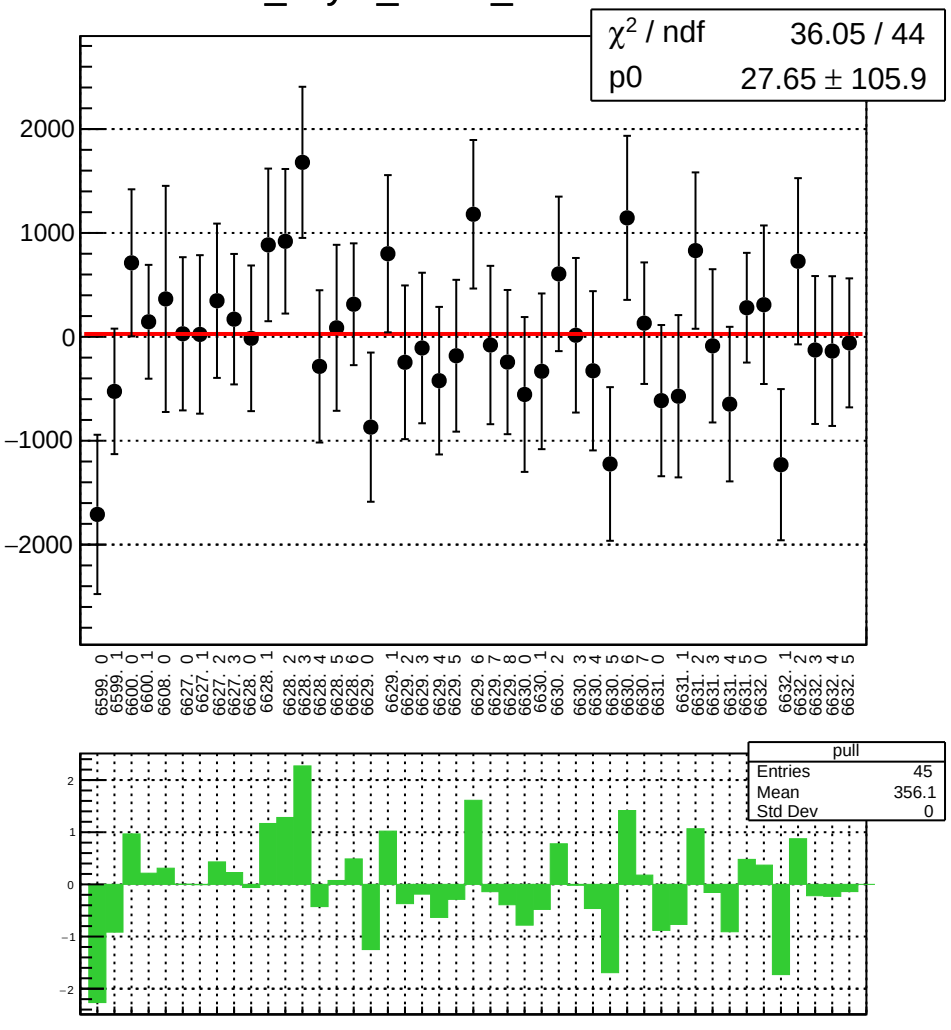
dit_asym_sam7_mean vs run
χ² / ndf 36.05 / 44
p0 27.65 ± 105.9
2000
1000
0
−1000
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
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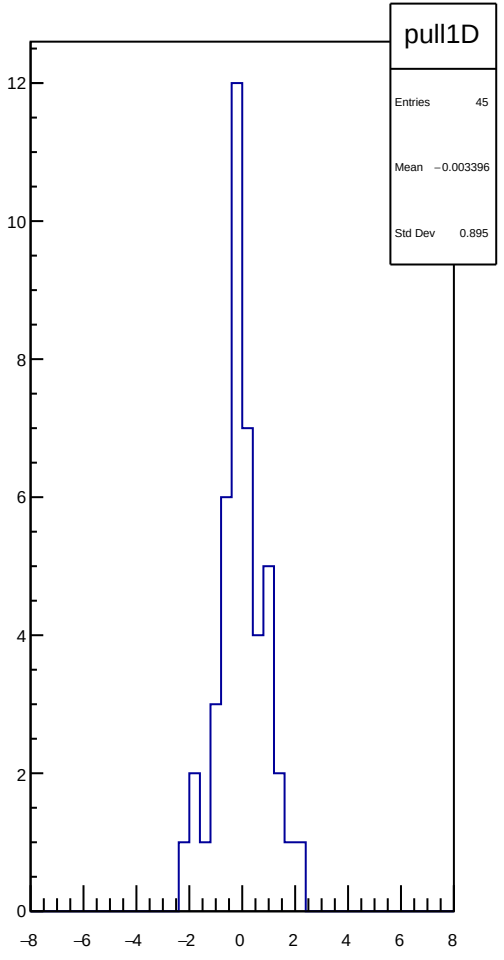
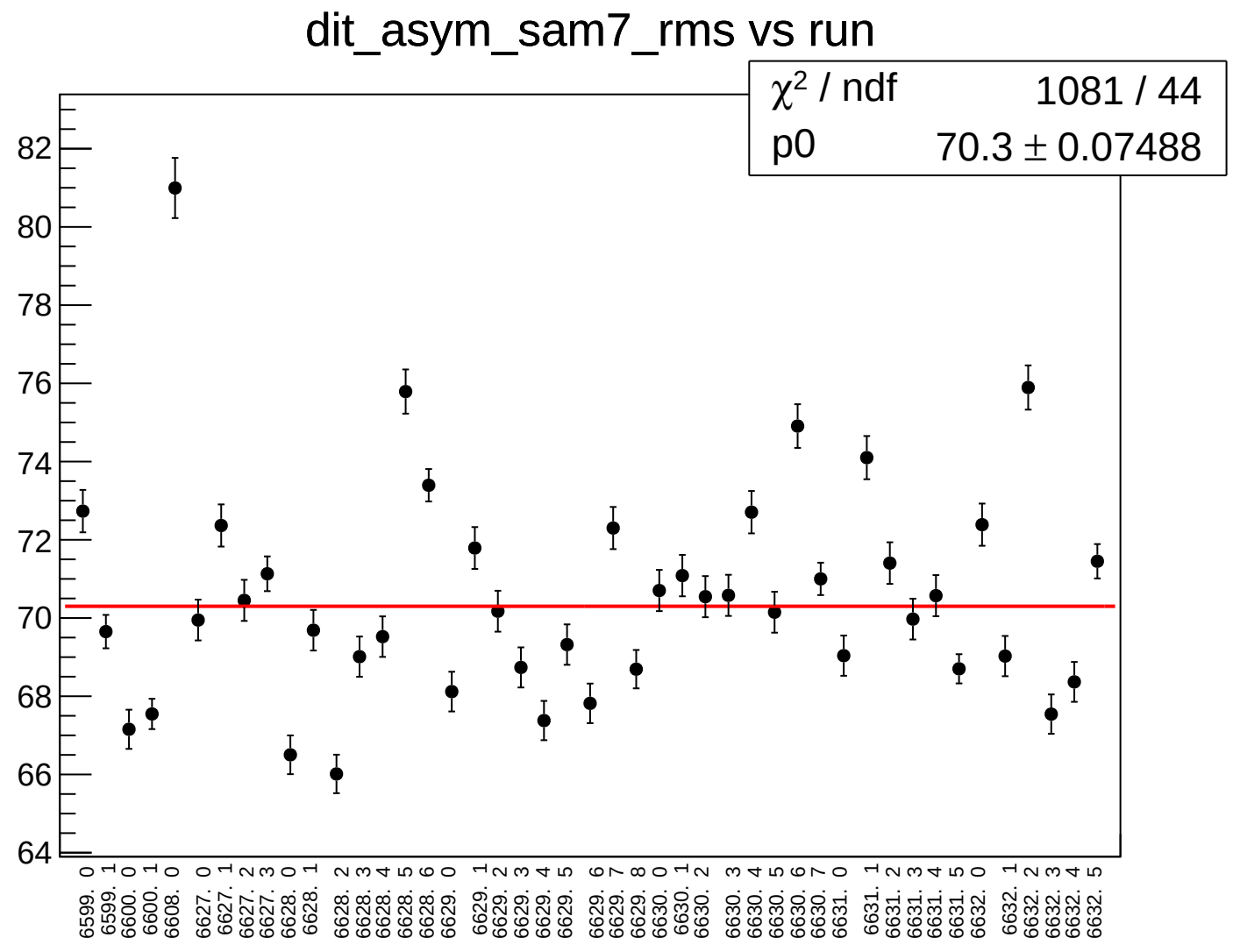
6632. 4
6632. 5
pull
Entries 45
Mean 356.1
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.003396
Std Dev 0.895
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam7_rms vs run
$\chi^2$ / ndf 1081 / 44
p0 70.3 ± 0.07488
82
80
78
76
74
72
70
68
66
64
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 3
6628. 0
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6628. 2
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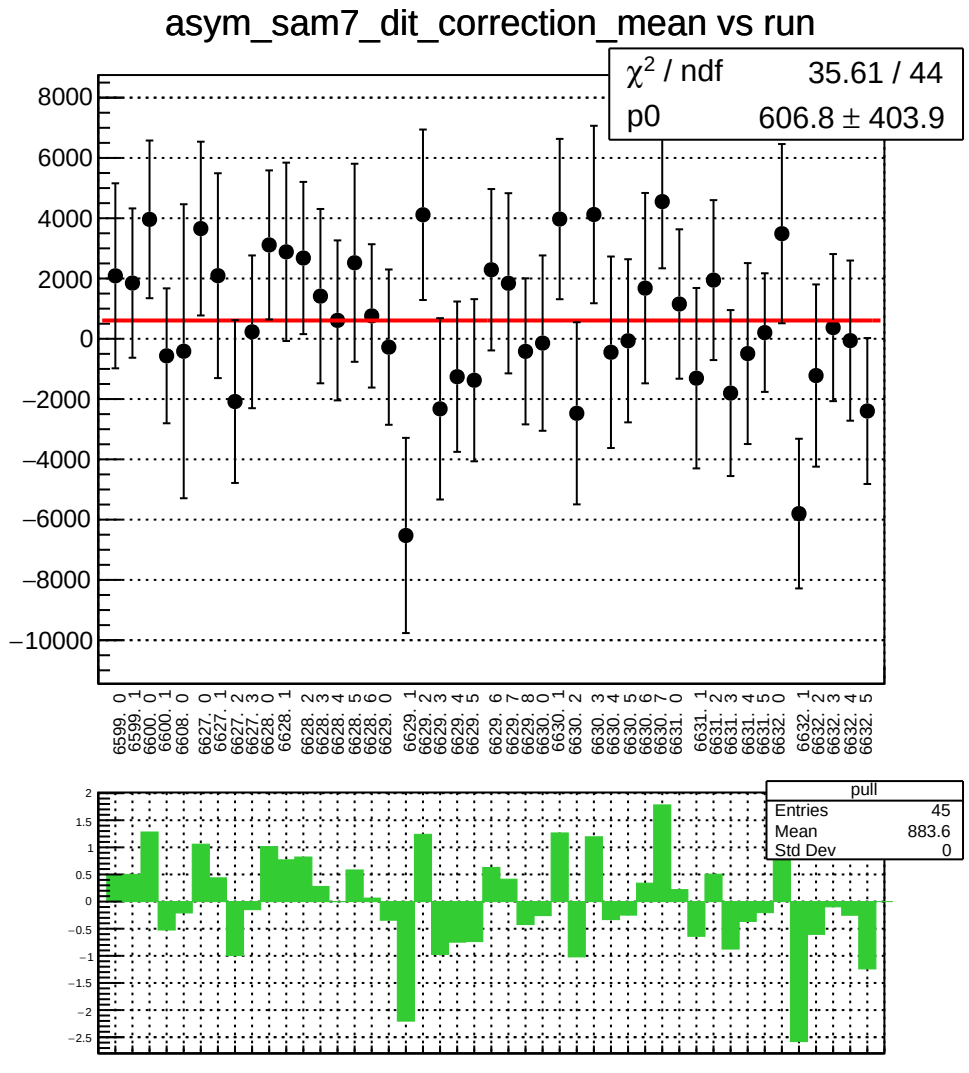
asym_sam7_dit_correction_mean vs run
χ² / ndf 35.61 / 44
p0 606.8 ± 403.9
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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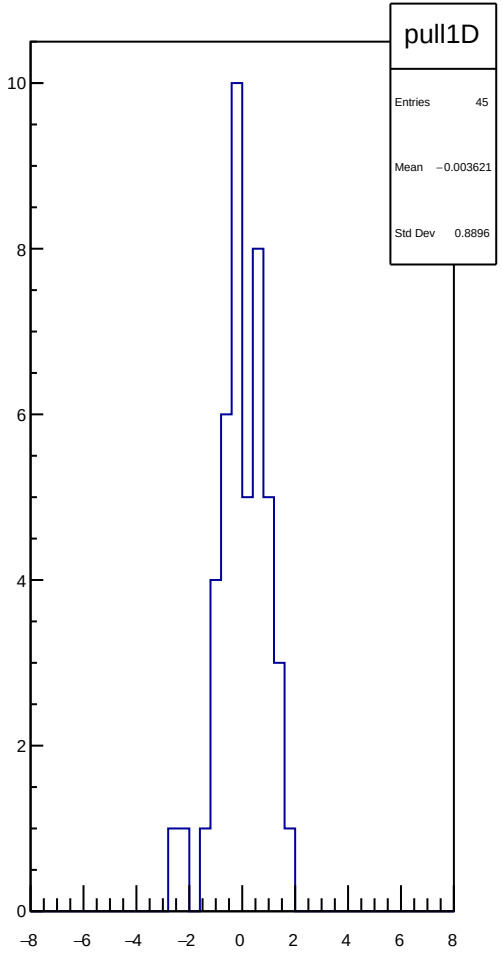
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 883.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean −0.003621
Std Dev 0.8896
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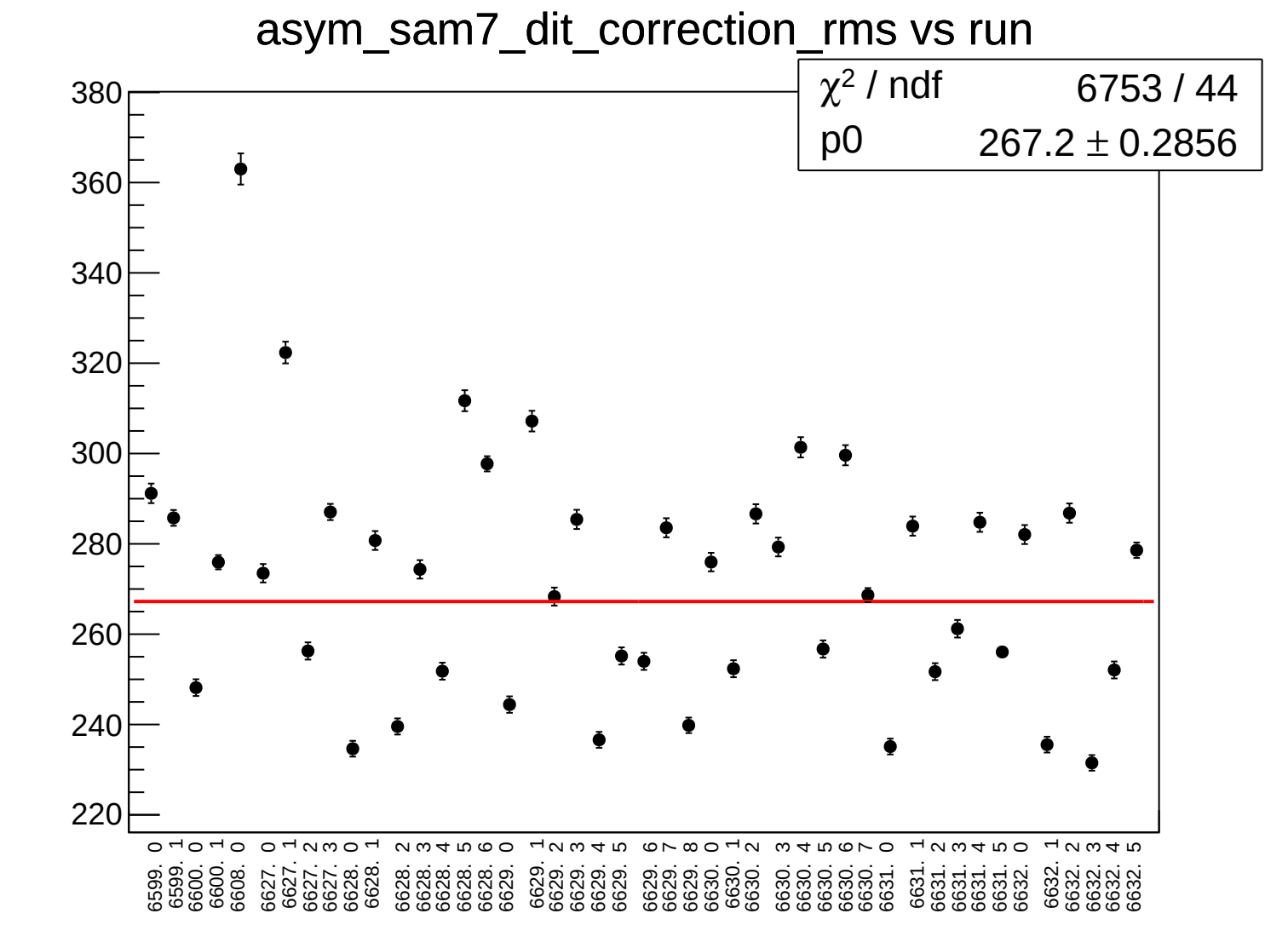
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam7_dit_correction_rms vs run
χ² / ndf 6753 / 44
p0 267.2 ± 0.2856
380
360
340
320
300
280
260
240
220
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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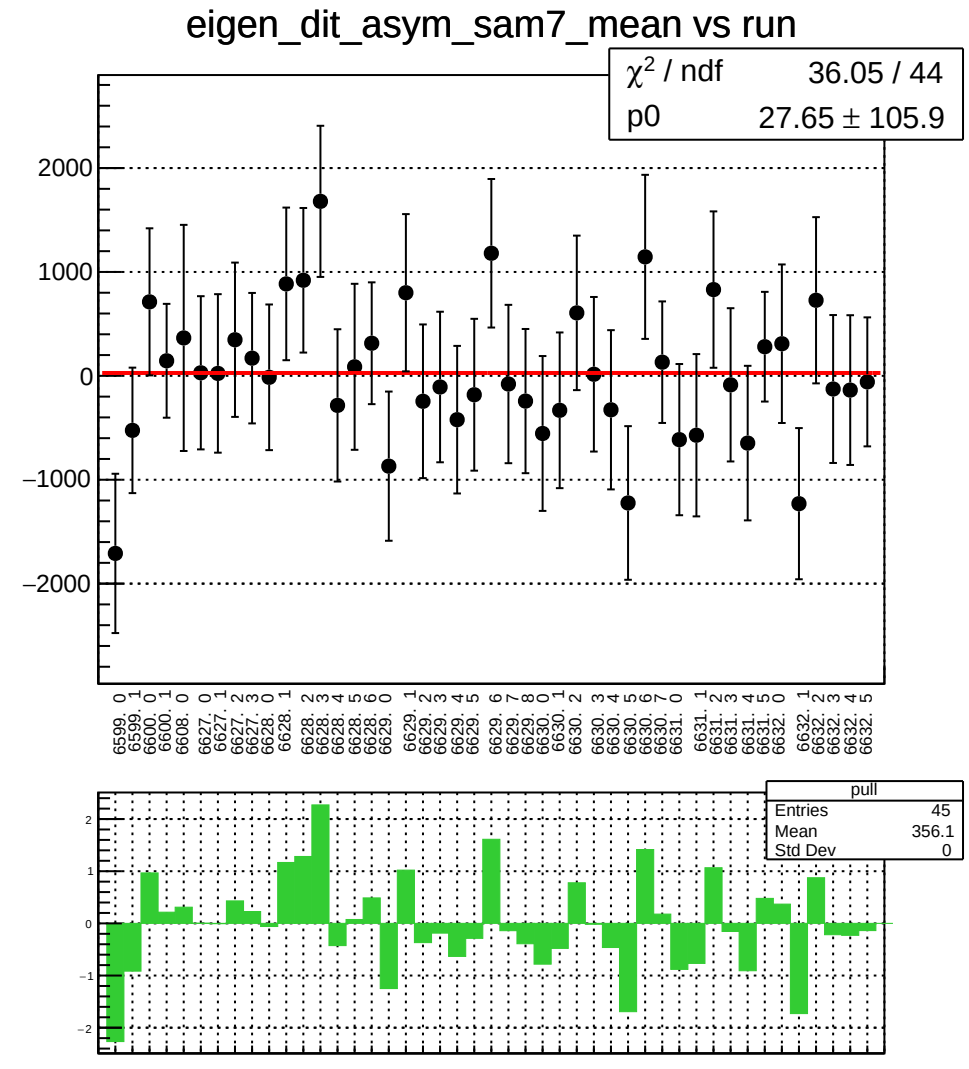
eigen_dit_asym_sam7_mean vs run
χ² / ndf 36.05 / 44
p0 27.65 ± 105.9
2000
1000
0
−1000
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 2
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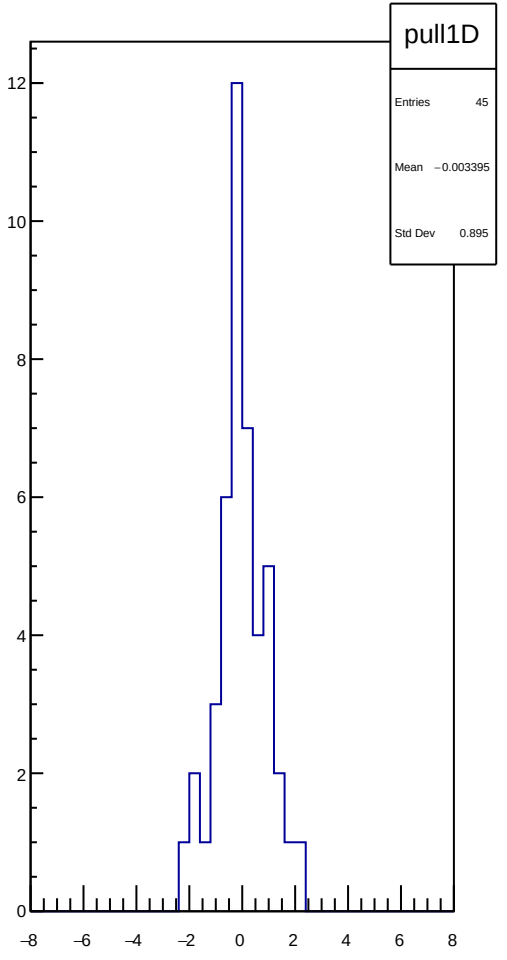
6632. 5
pull
Entries 45
Mean 356.1
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.003395
Std Dev 0.895
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−8
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−4
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2
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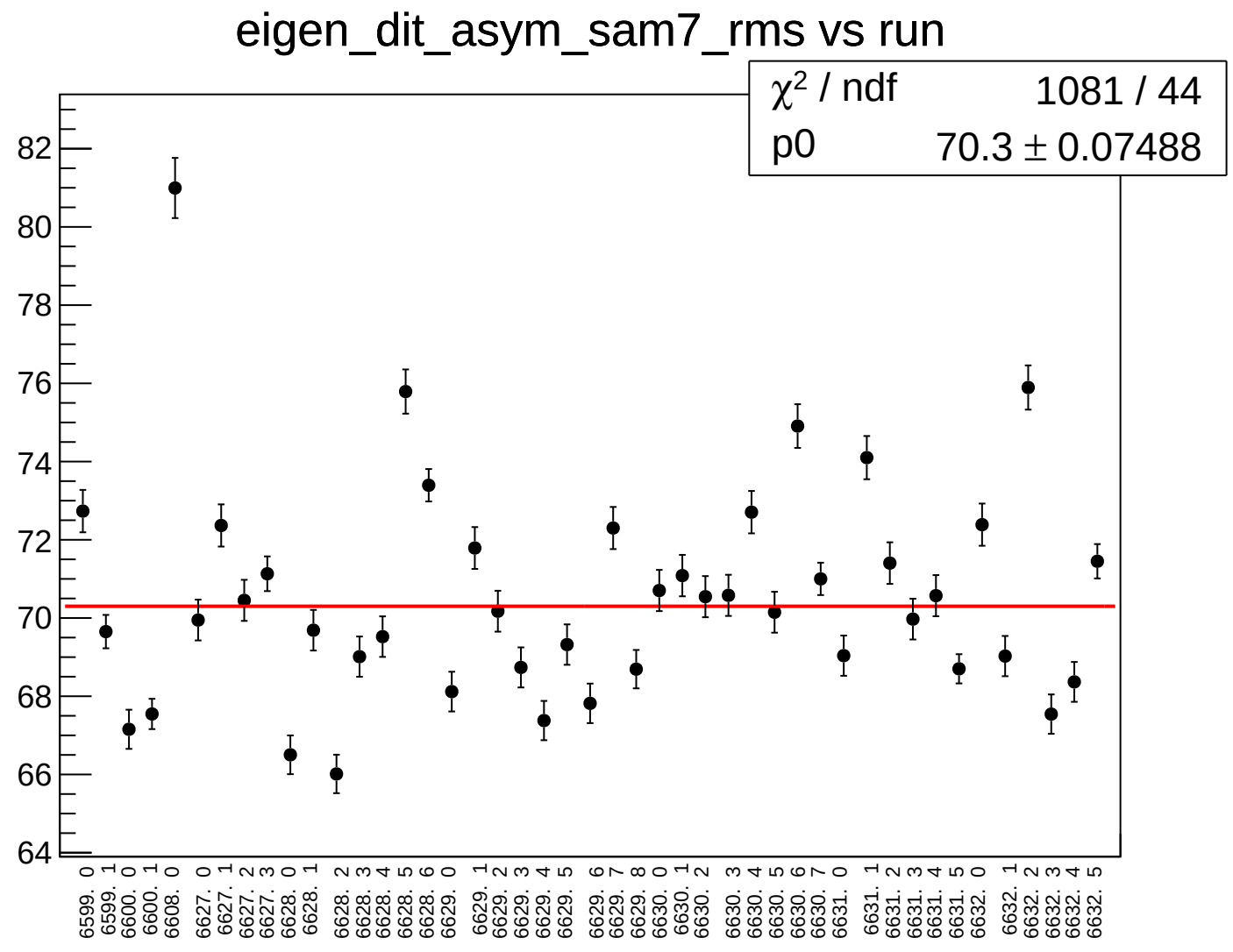
6
8


eigen_dit_asym_sam7_rms vs run
χ² / ndf 1081 / 44
p0 70.3 ± 0.07488
82
80
78
76
74
72
70
68
66
64
6599. 0
6599. 1
6600. 0
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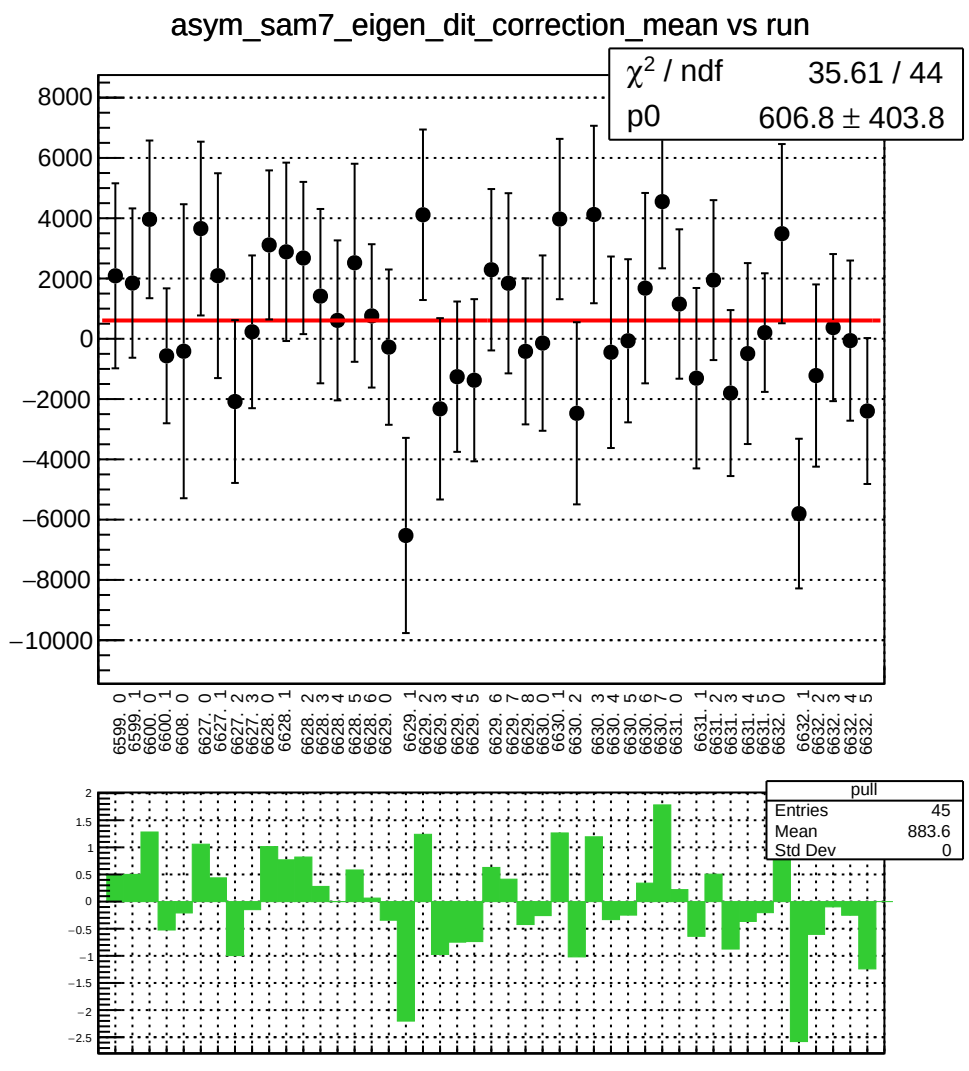
asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 35.61 / 44
p0 606.8 ± 403.8
8000
6000
4000
2000
0
−2000
−4000
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−8000
−10000
6599. 0
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6600. 0
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6631. 4
6631. 5
6632. 0
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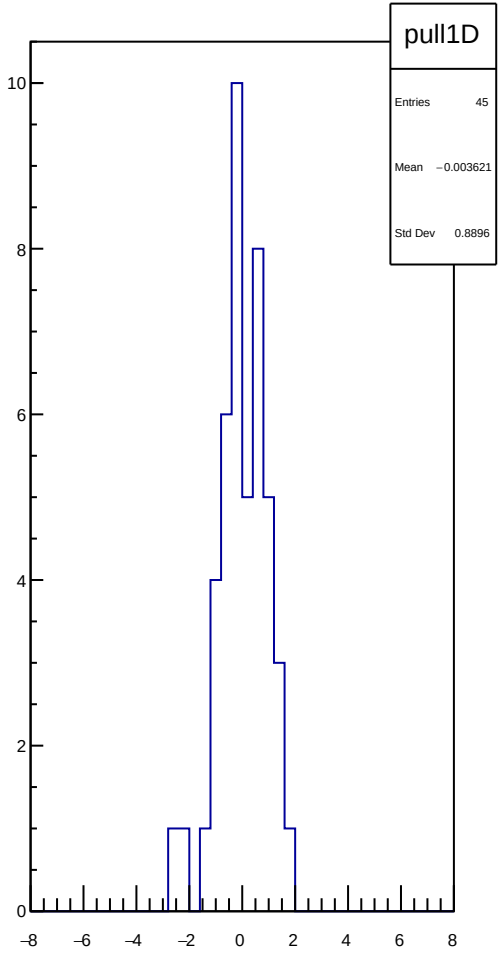
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 883.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean −0.003621
Std Dev 0.8896
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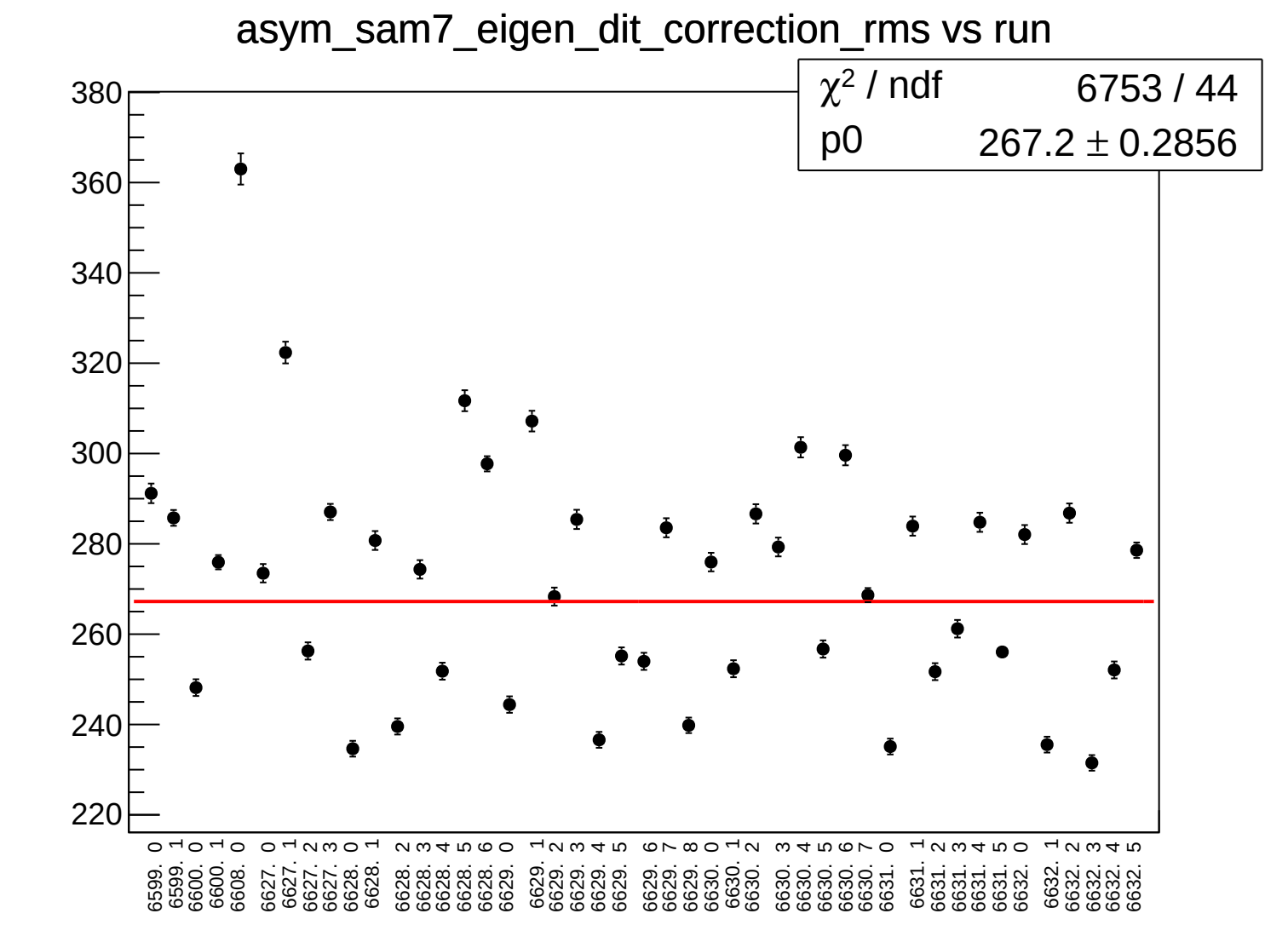
−2
0
2
4
6
8


asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 6753 / 44
p0 267.2 ± 0.2856
380
360
340
320
300
280
260
240
220
6599. 0
6599. 1
6600. 0
6600. 1
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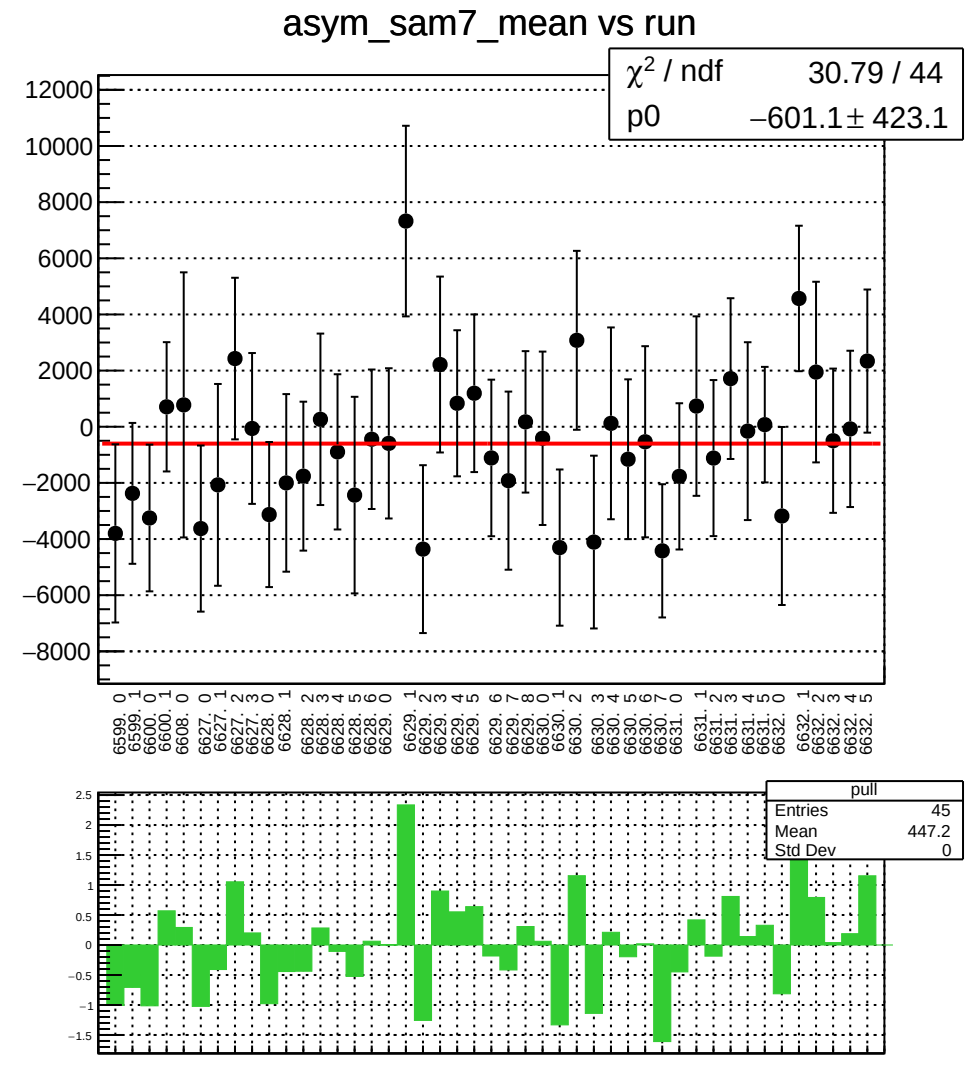
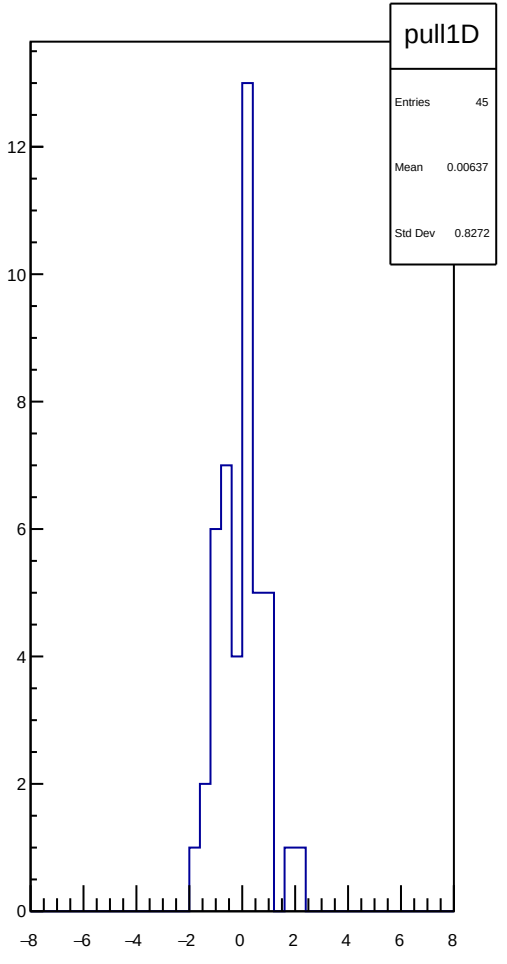
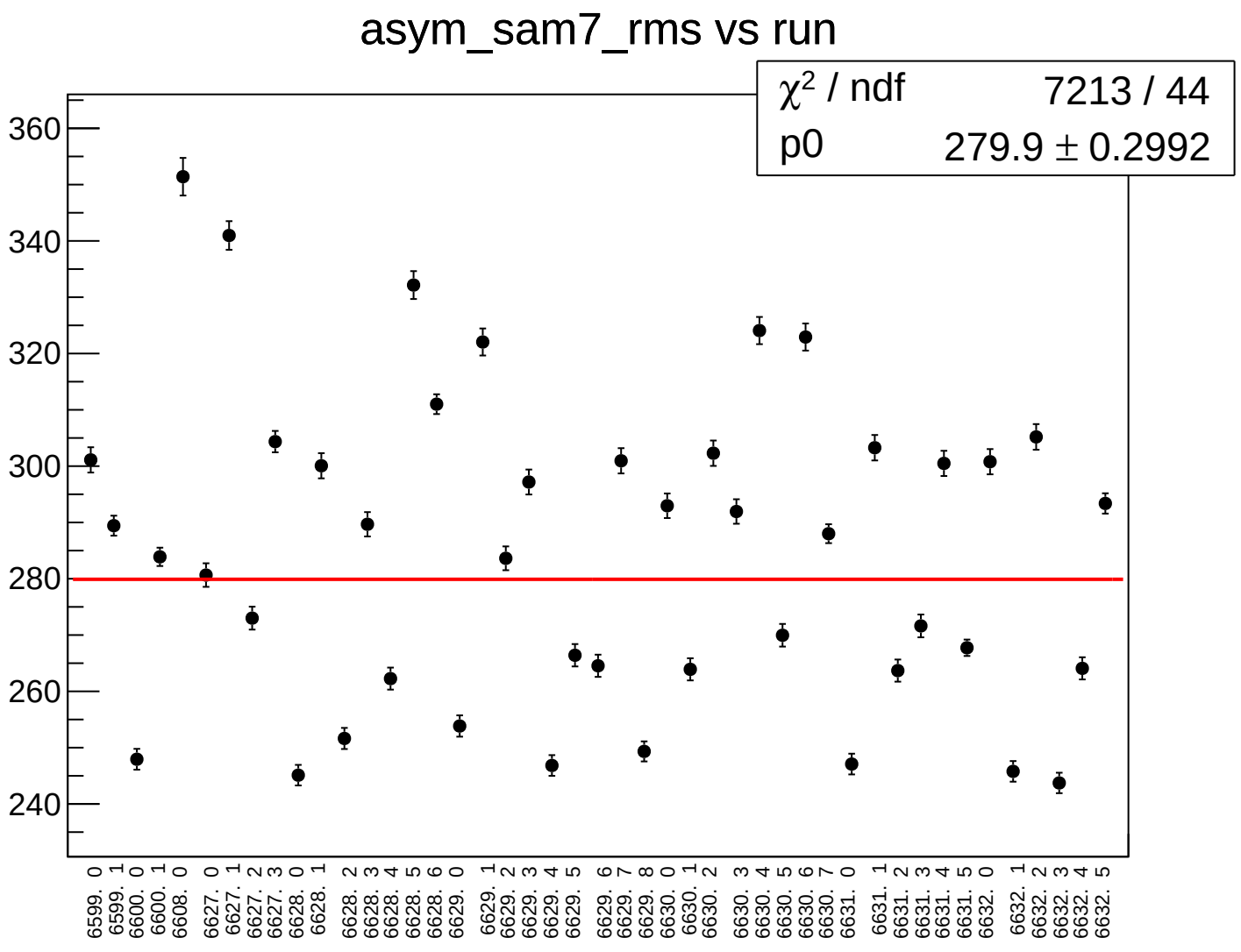
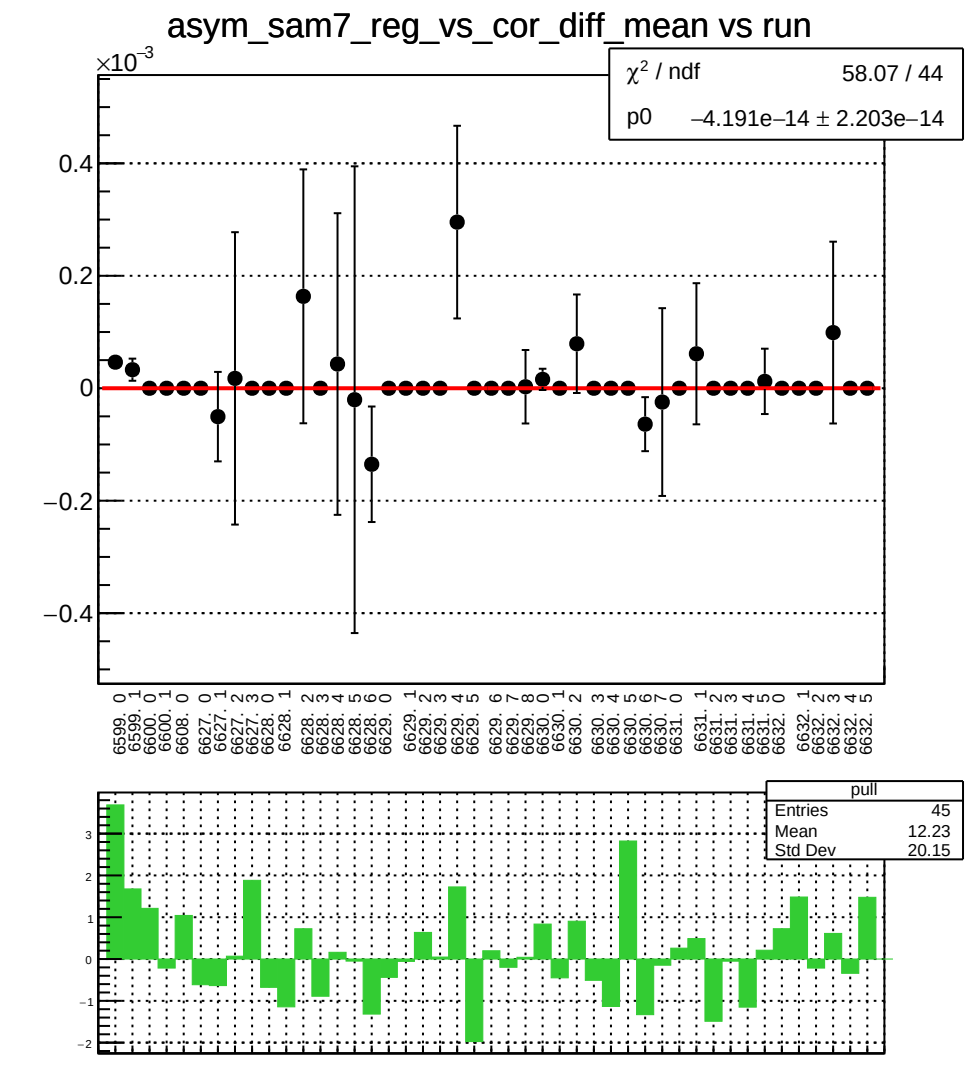
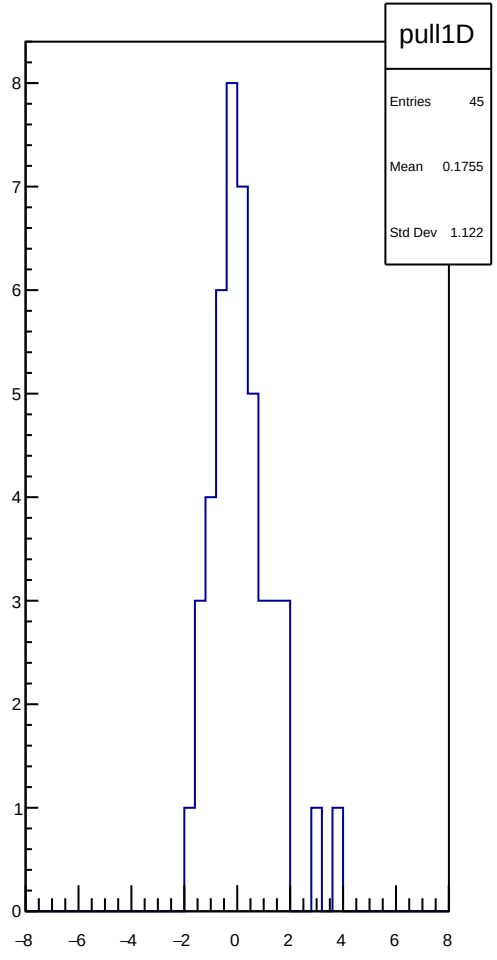
6632. 4
6632. 5

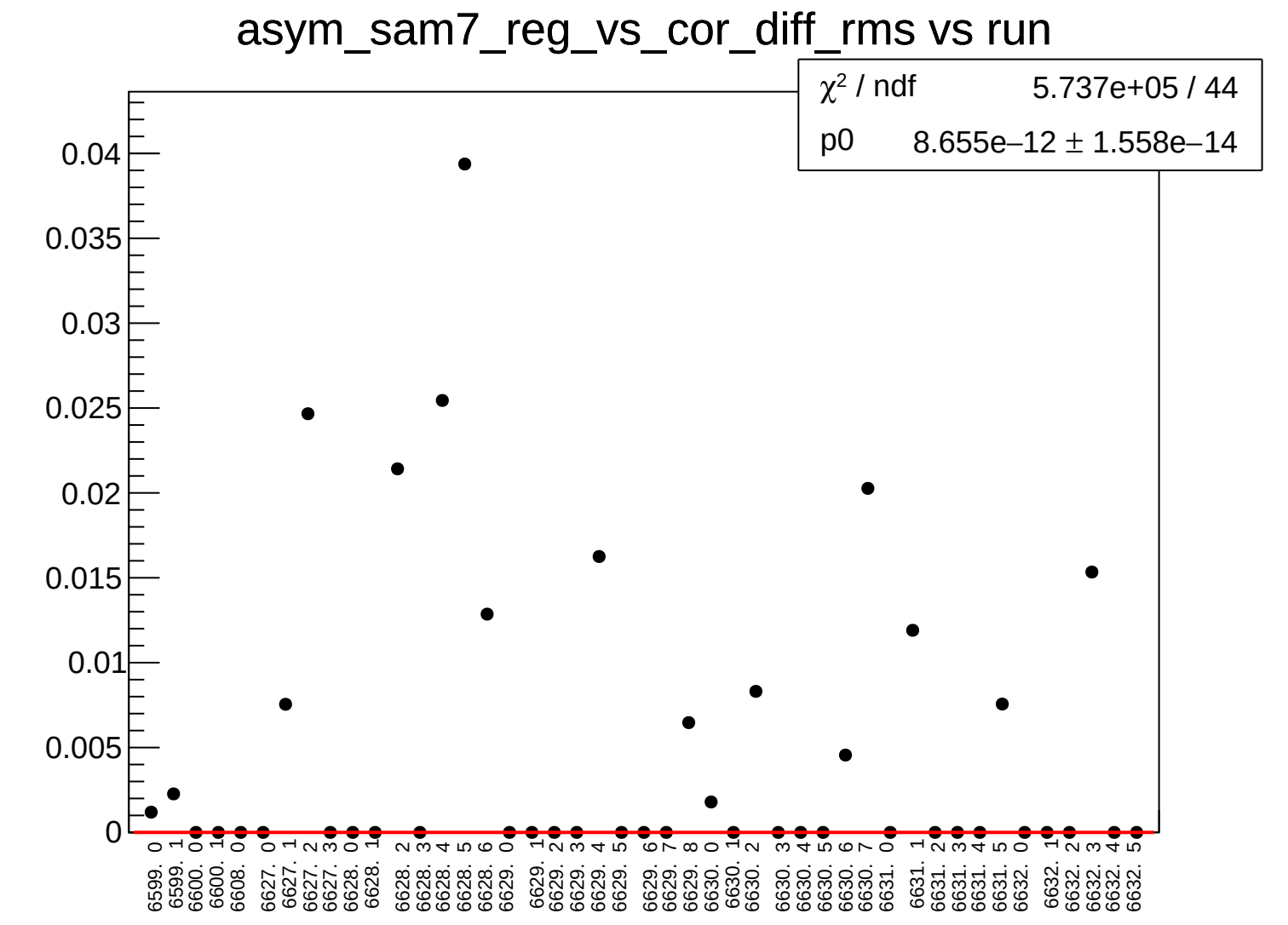

asym_sam7_mean vs run
χ² / ndf 30.79 / 44
p0 −601.1 ± 423.1
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 447.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

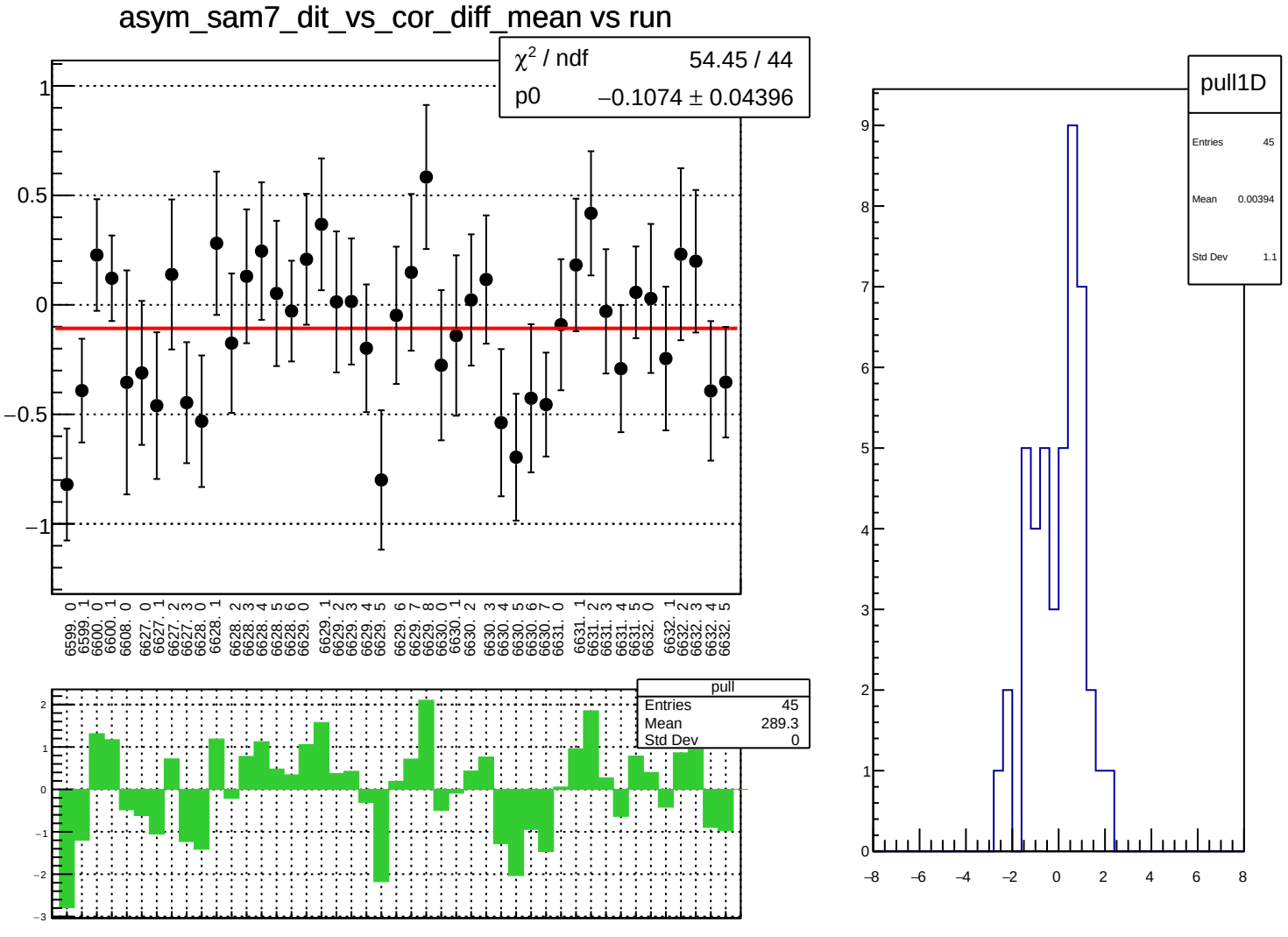

pull1D
Entries 45
Mean 0.00637
Std Dev 0.8272
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

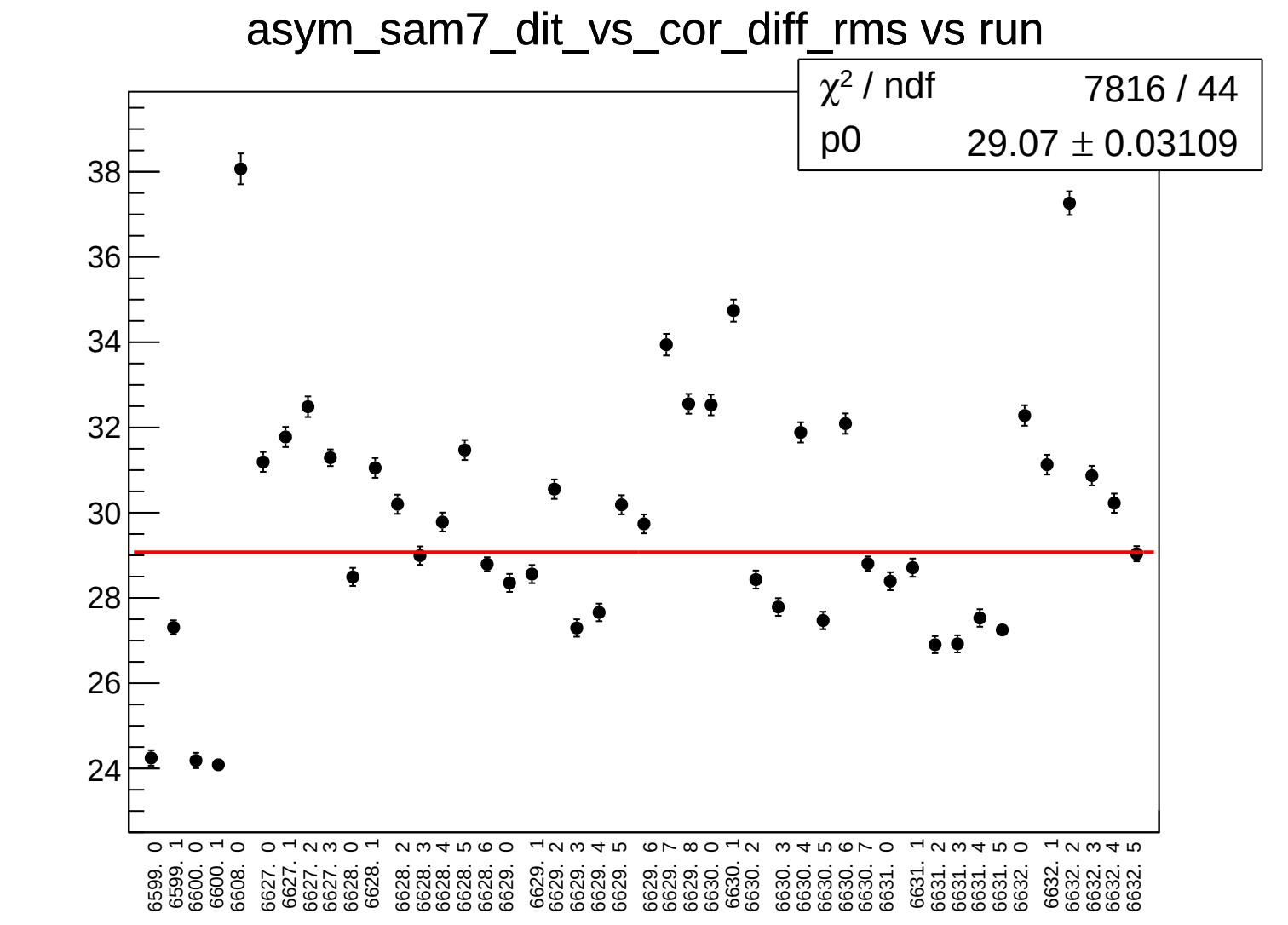

asym_sam7_rms vs run
$\chi^2$ / ndf 7213 / 44
p0 279.9 ± 0.2992
360
340
320
300
280
260
240
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

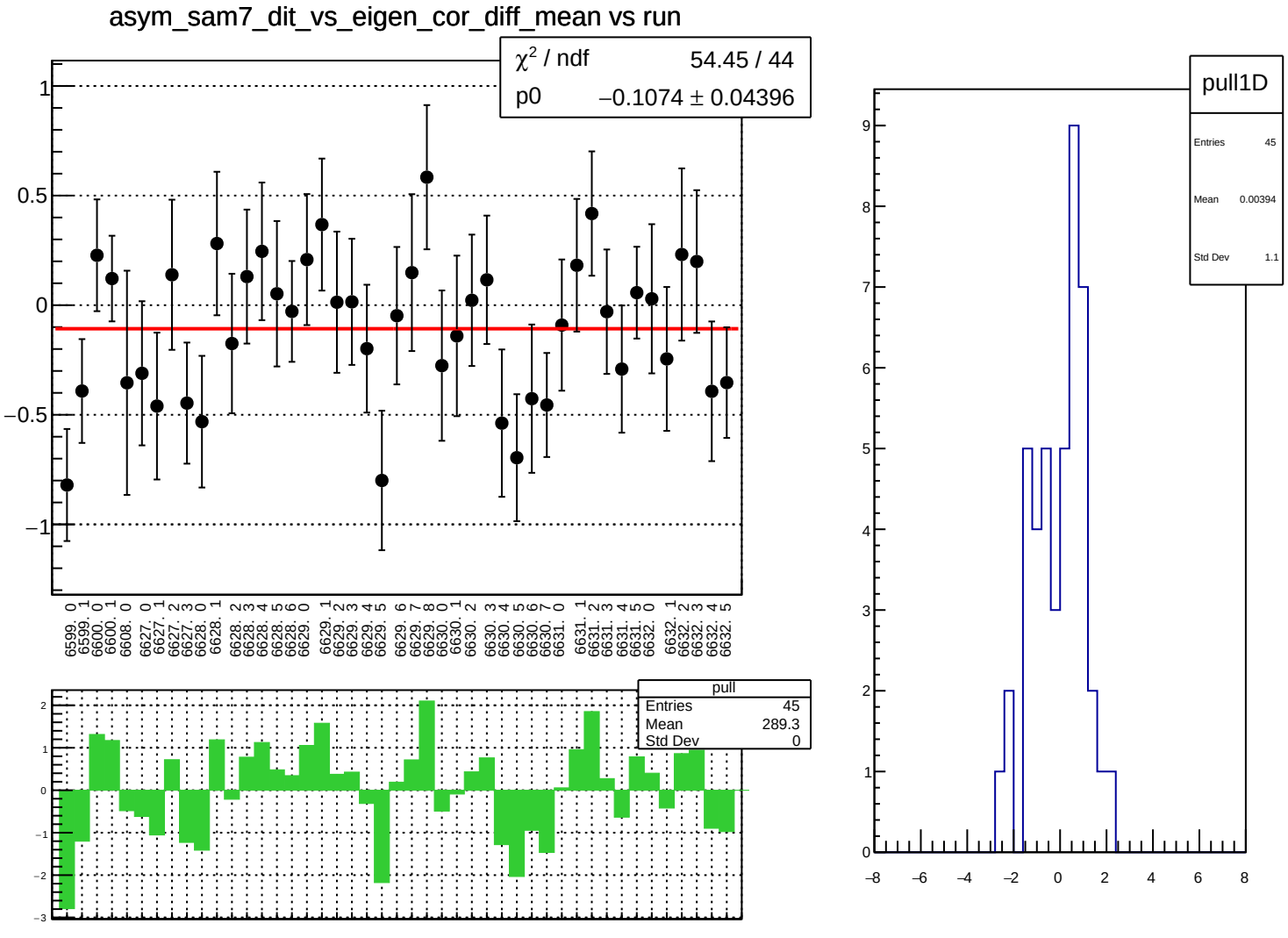

asym_sam7_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 58.07 / 44
p0 −4.191e−14 ± 2.203e−14
0.4
0.2
0
−0.2
−0.4
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 12.23
Std Dev 20.15
3
2
1
0
−1
−2

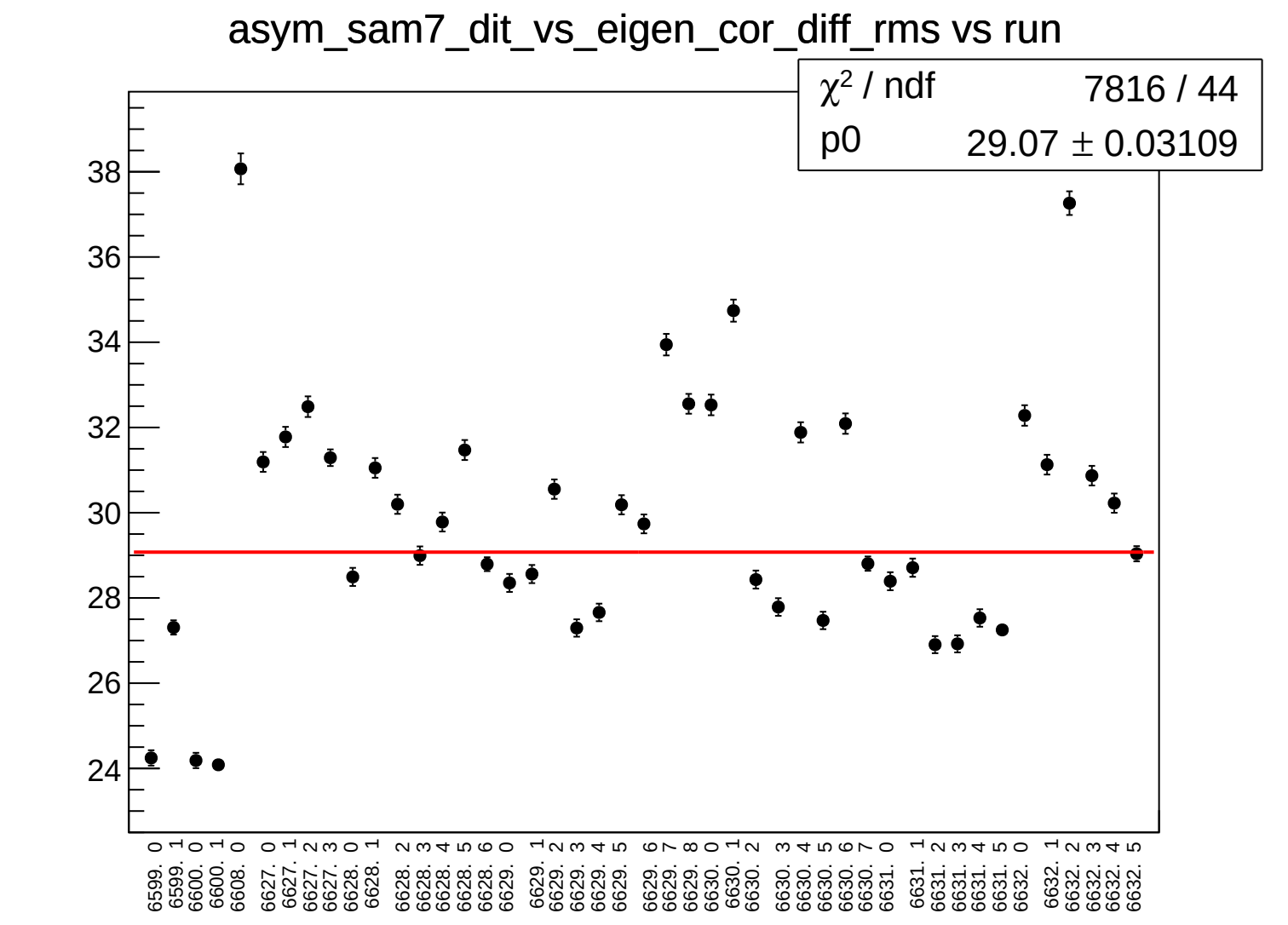

pull1D
Entries 45
Mean 0.1755
Std Dev 1.122
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

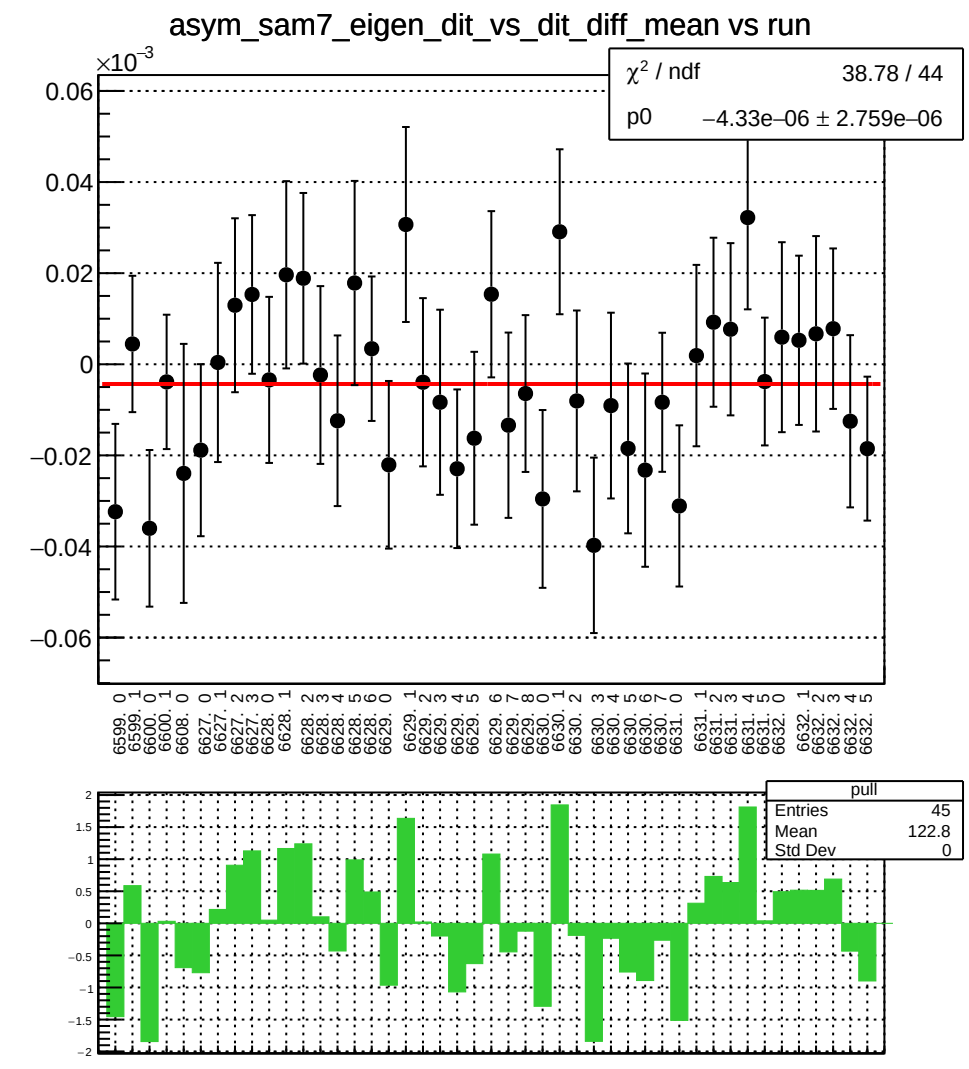

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 5.737e+05 / 44
p0 8.655e−12 ± 1.558e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

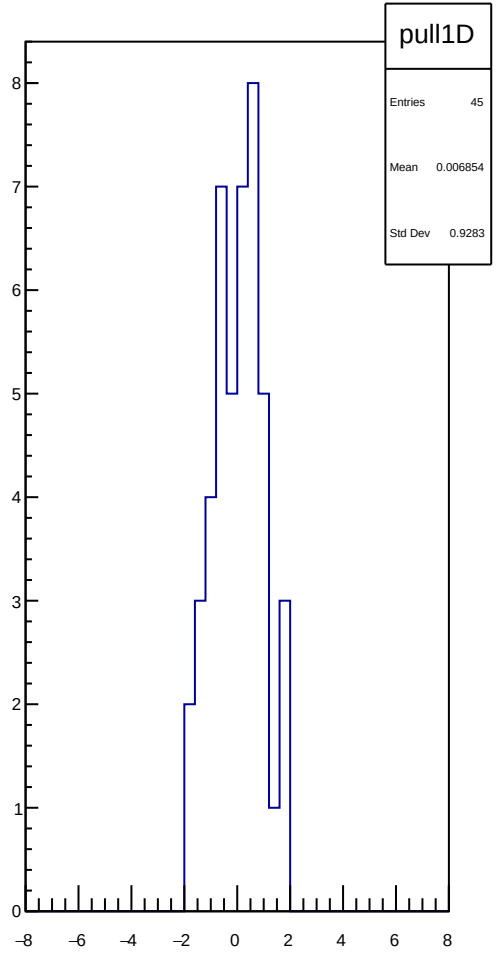

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 54.45 / 44
p0 −0.1074 ± 0.04396
pull
Entries 45
Mean 289.3
Std Dev 0
pull1D
Entries 45
Mean 0.00394
Std Dev 1.1

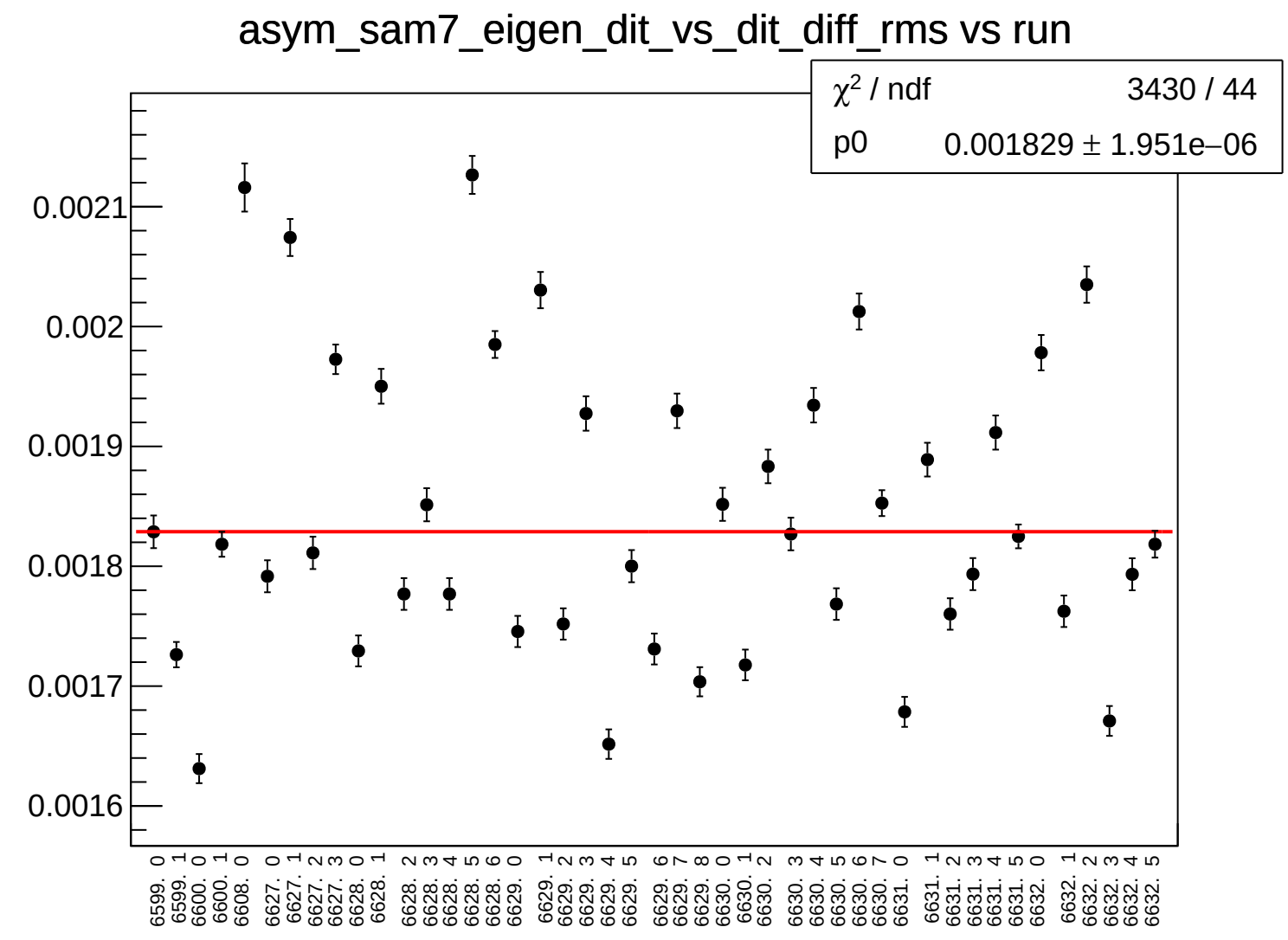

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 7816 / 44
p0 29.07 ± 0.03109
38
36
34
32
30
28
26
24
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

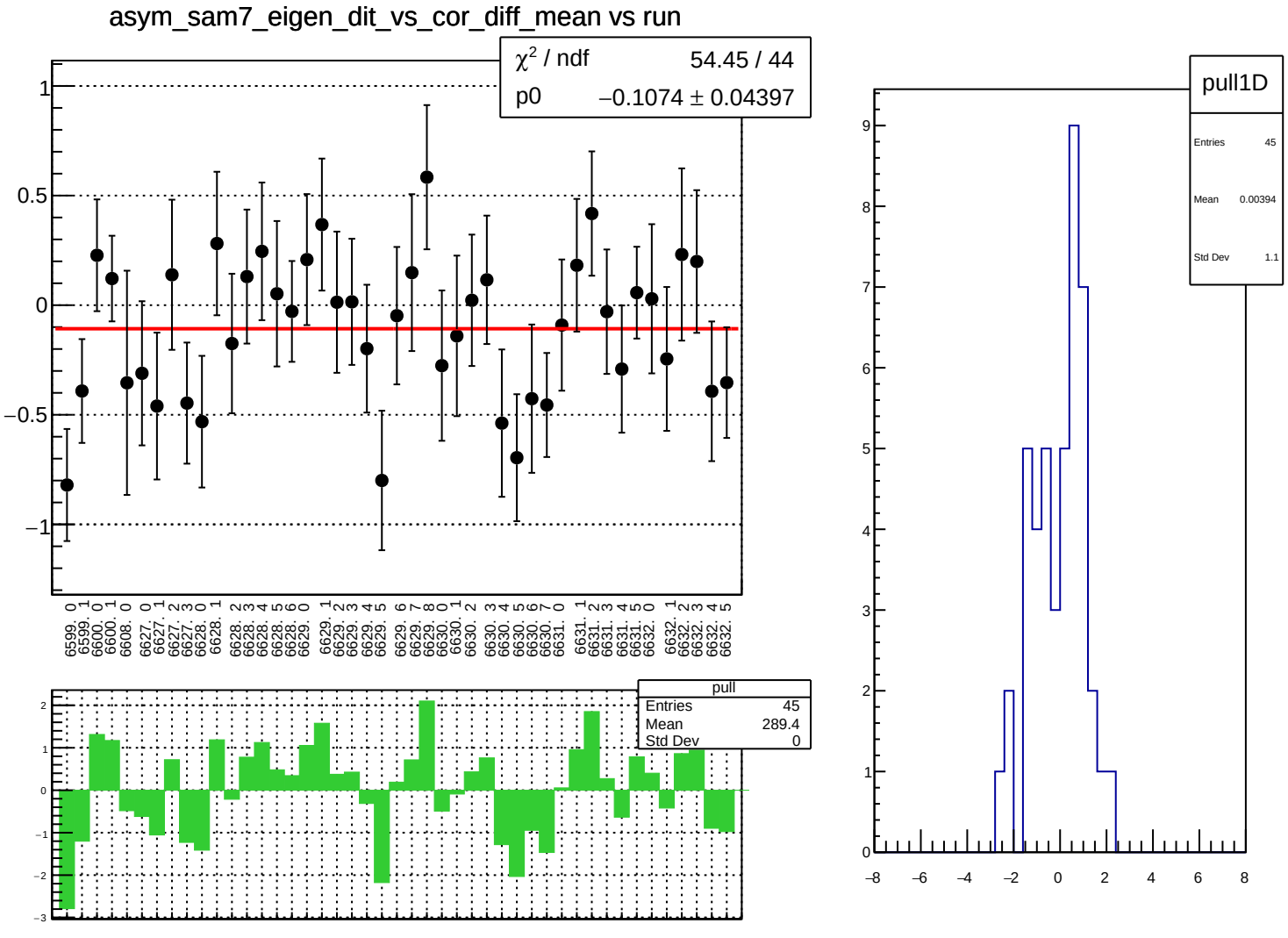

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 54.45 / 44
p0 −0.1074 ± 0.04396
pull
Entries 45
Mean 289.3
Std Dev 0
pull1D
Entries 45
Mean 0.00394
Std Dev 1.1

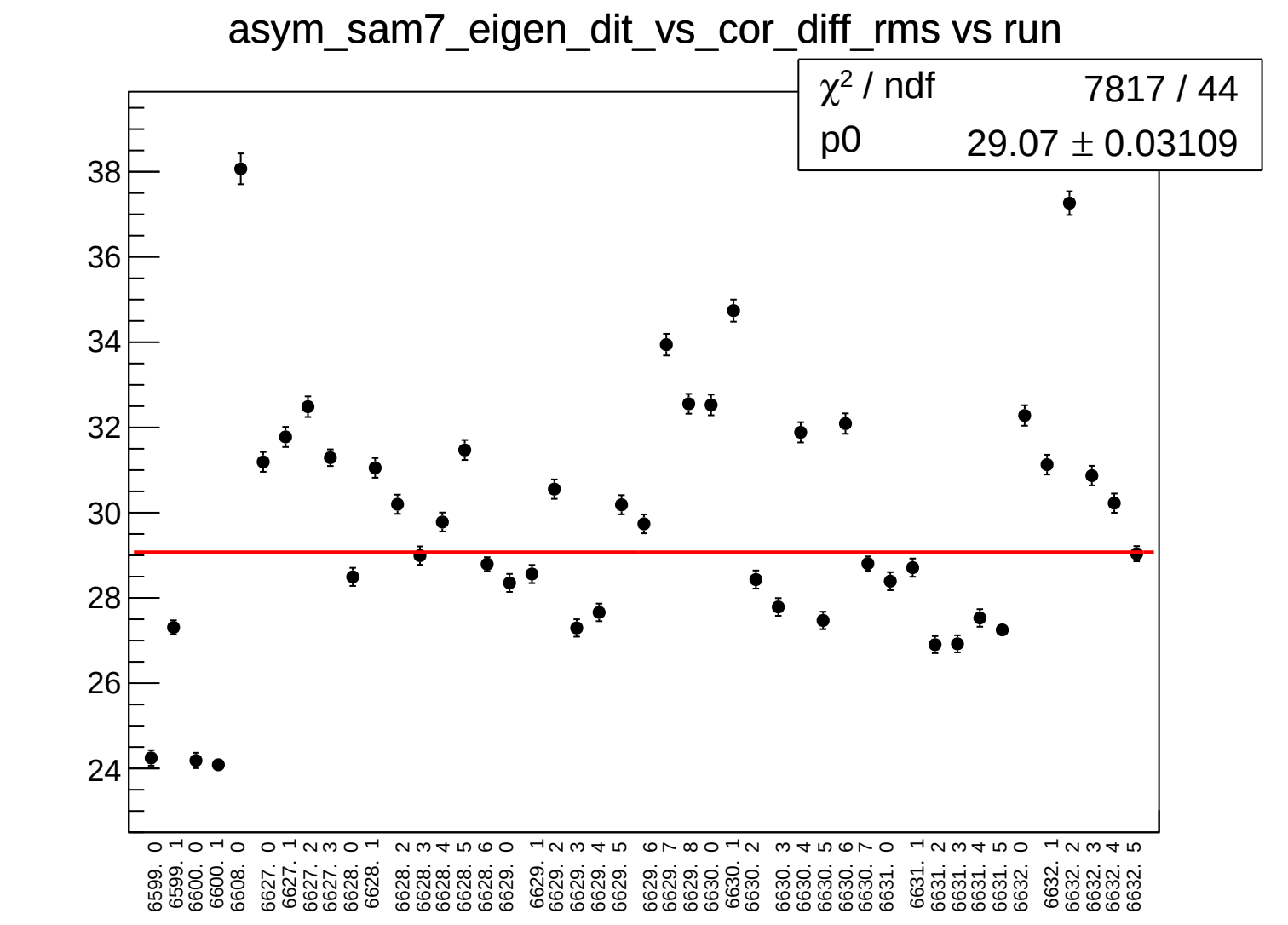

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7816 / 44
p0 29.07 ± 0.03109
38
36
34
32
30
28
26
24
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

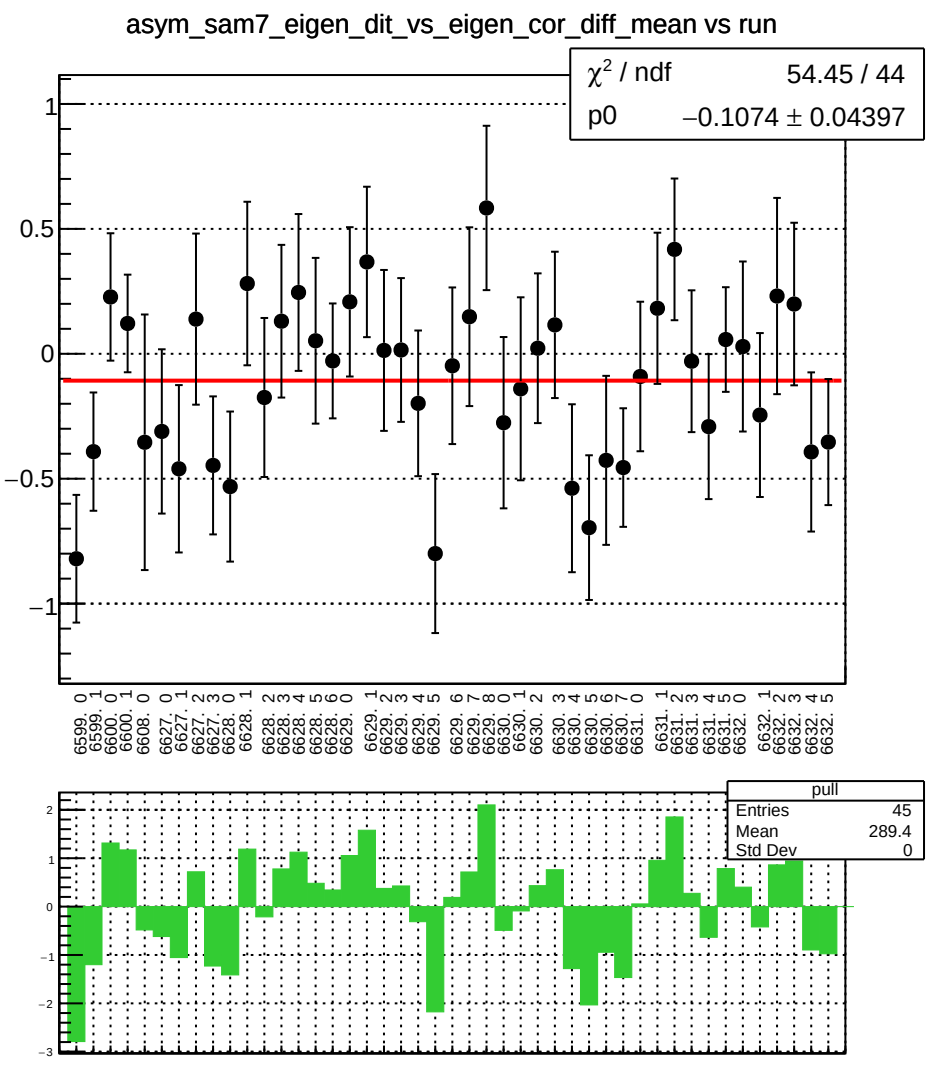

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 38.78 / 44
p0 −4.33e−06 ± 2.759e−06
pull
Entries 45
Mean 122.8
Std Dev 0

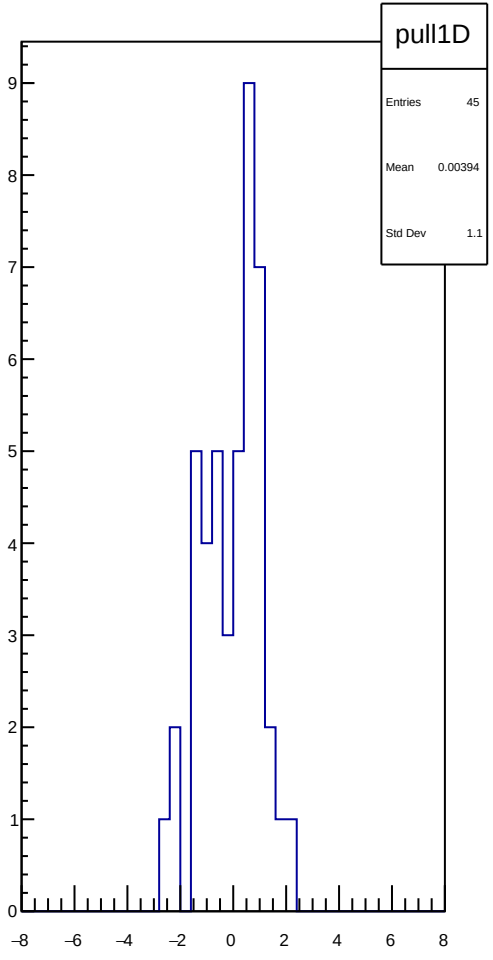

pull1D
Entries 45
Mean 0.006854
Std Dev 0.9283

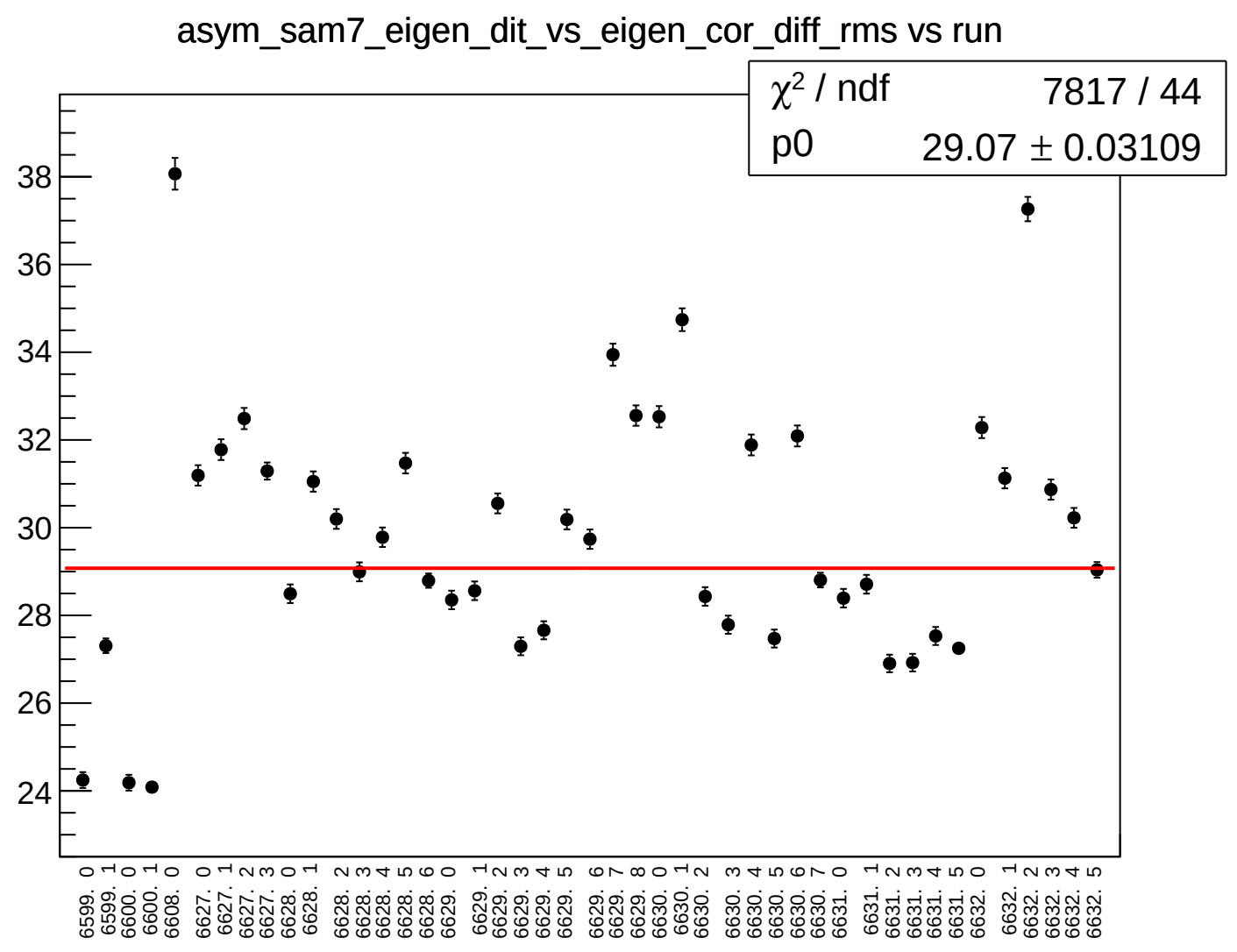

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3430 / 44
p0 0.001829 ± 1.951e−06
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 54.45 / 44
p0 −0.1074 ± 0.04397
pull
Entries 45
Mean 289.4
Std Dev 0
pull1D
Entries 45
Mean 0.00394
Std Dev 1.1


asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7817 / 44
p0 29.07 ± 0.03109
38
36
34
32
30
28
26
24
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 54.45 / 44
p0 −0.1074 ± 0.04397
pull
Entries 45
Mean 289.4
Std Dev 0


pull1D
Entries 45
Mean 0.00394
Std Dev 1.1


asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7817 / 44
p0 29.07 ± 0.03109
38
36
34
32
30
28
26
24
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
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6630. 2
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6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
6631. 5
6632. 0
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6632. 2
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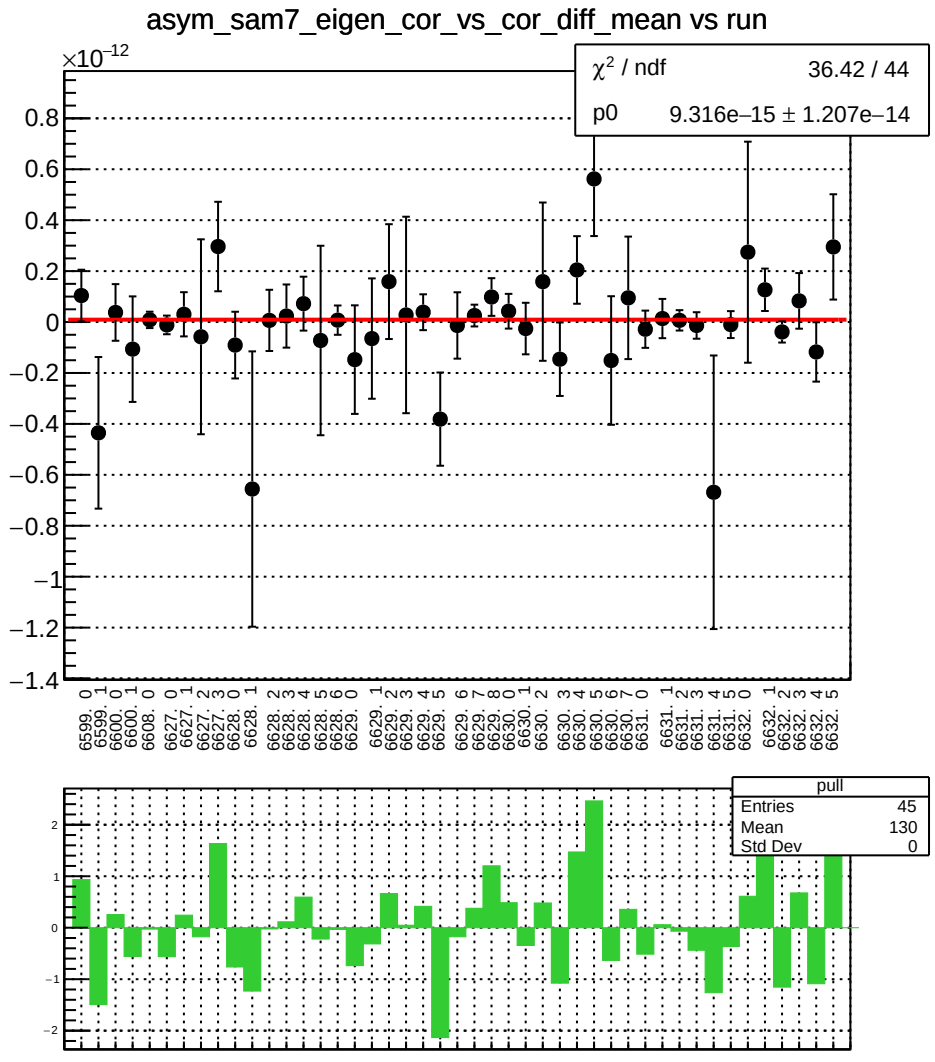
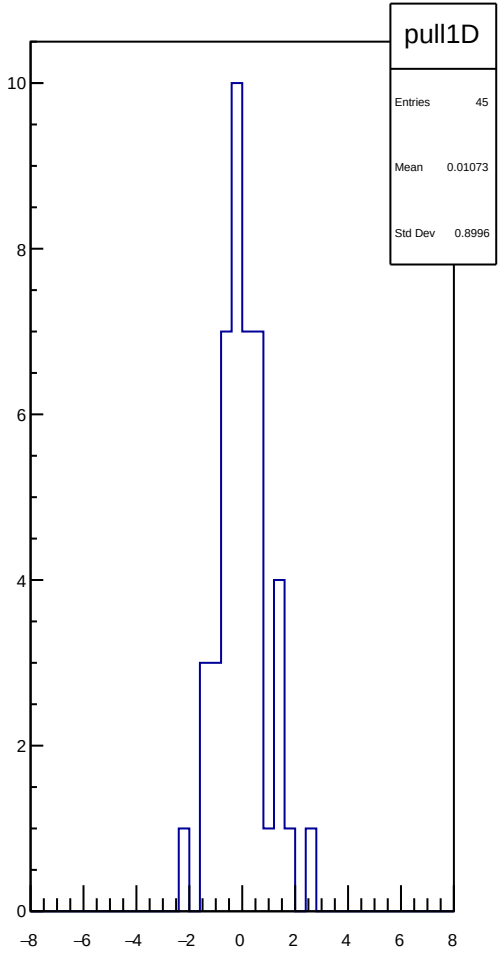
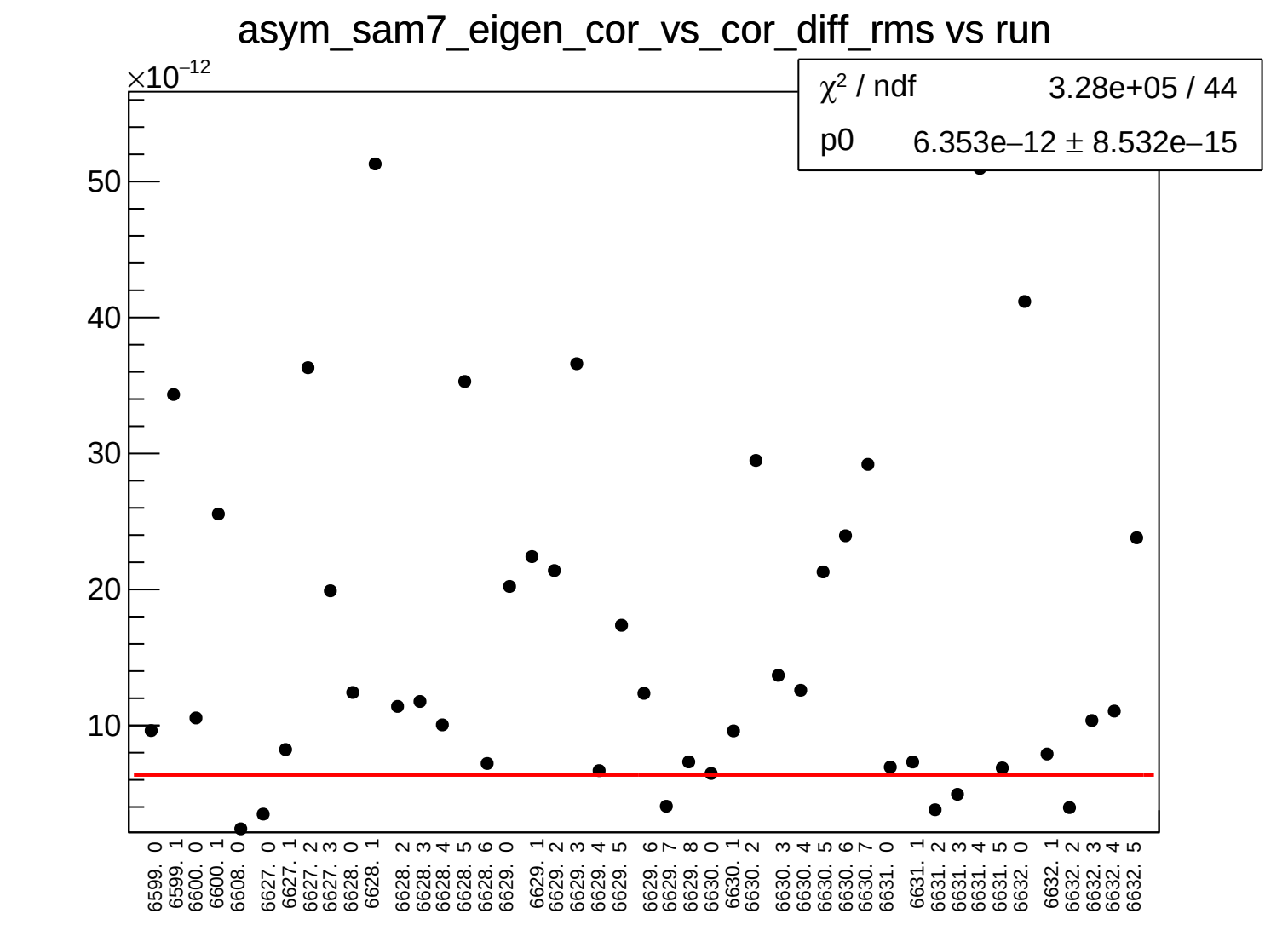
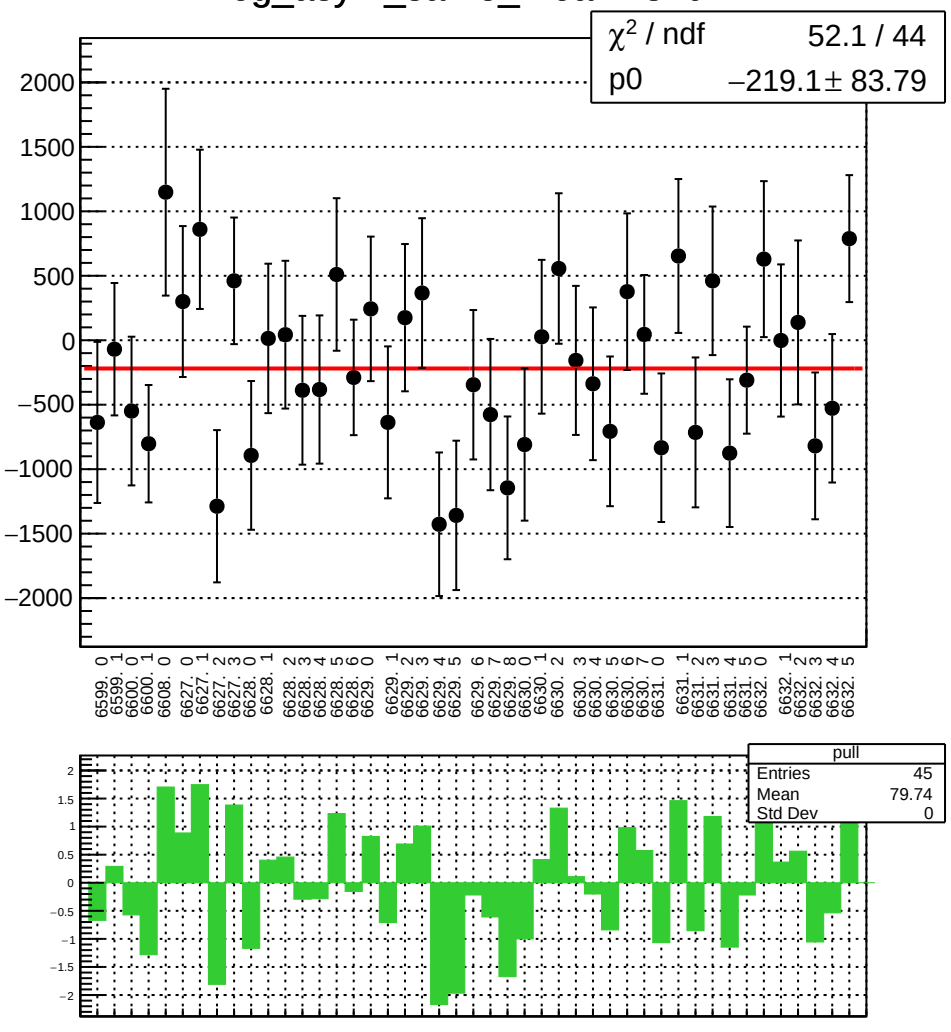
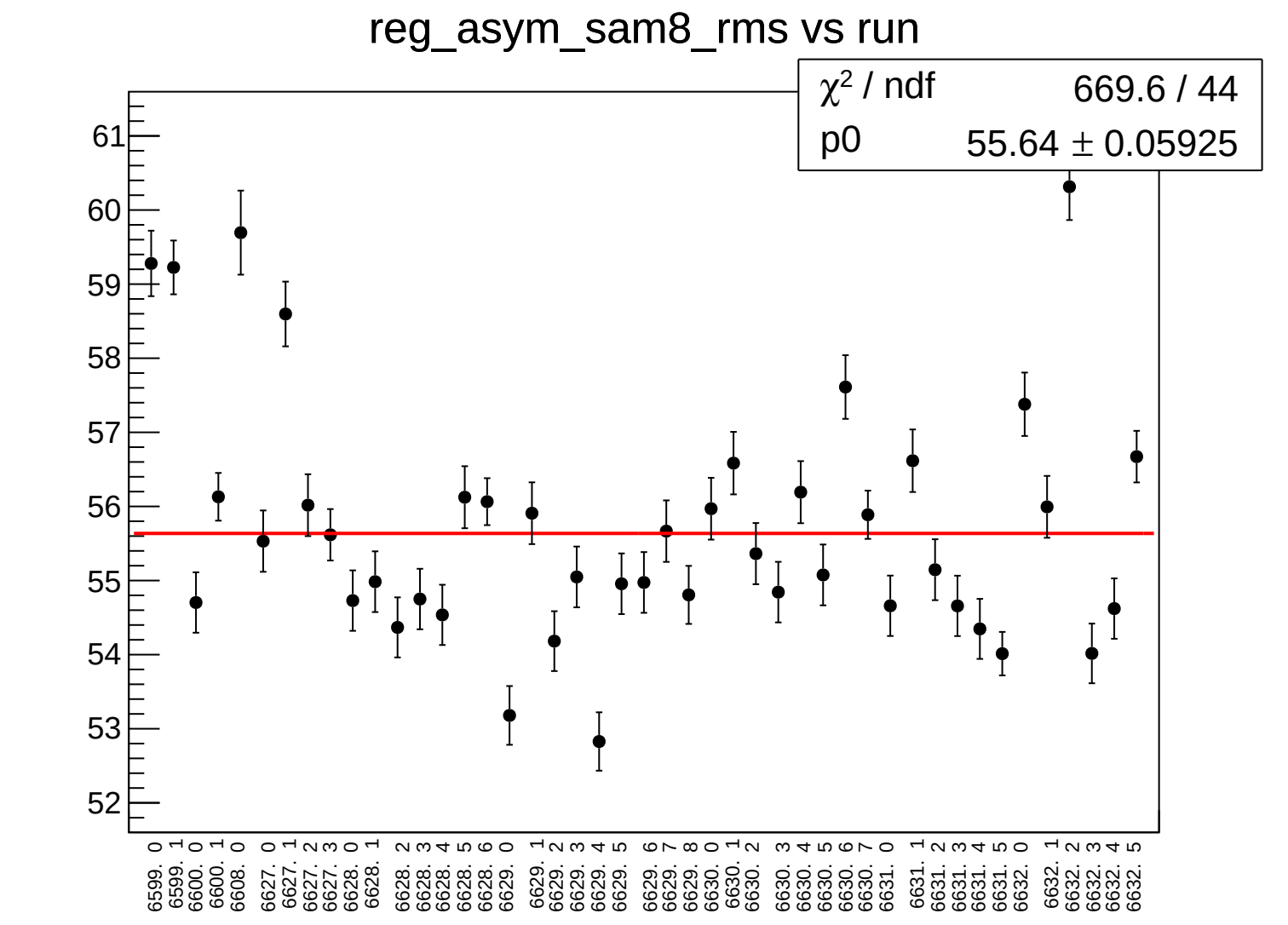
6632. 4
6632. 5

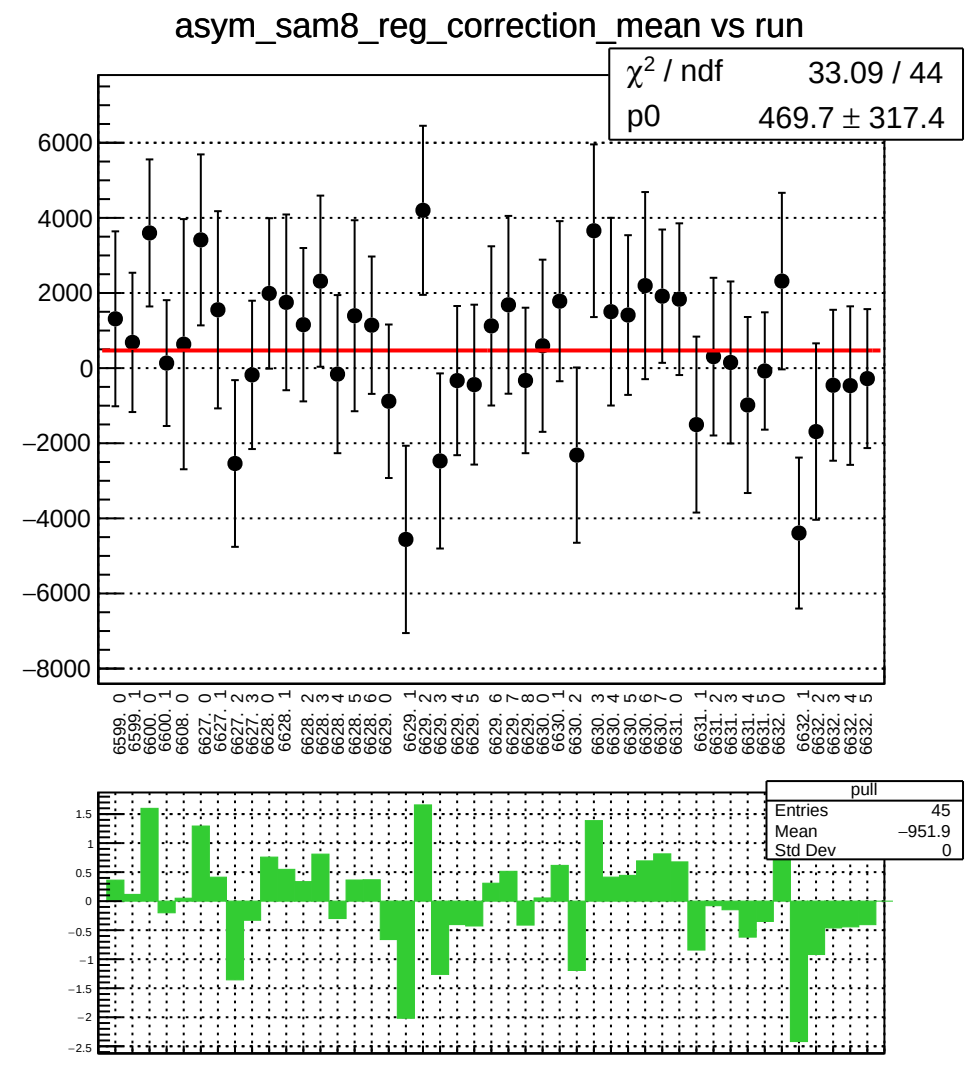

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 36.42 / 44
p0 9.316e−15 ± 1.207e−14
pull
Entries 45
Mean 130
Std Dev 0

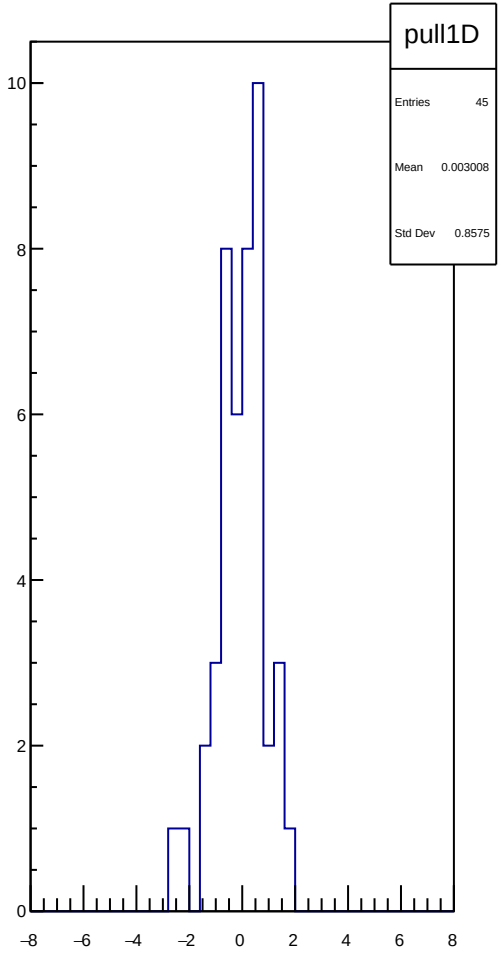

pull1D
Entries 45
Mean 0.01073
Std Dev 0.8996

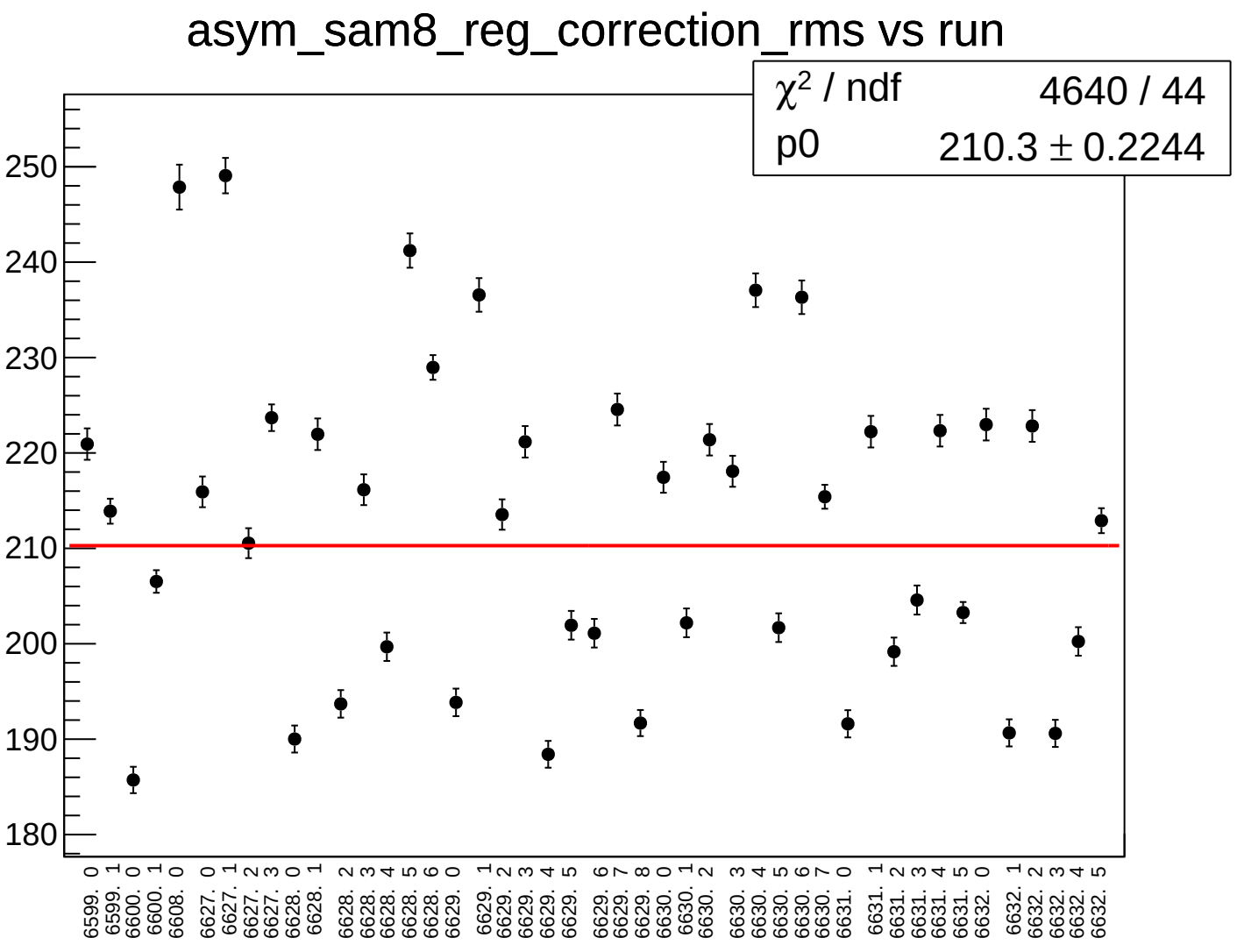

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.28e+05 / 44
p0 6.353e−12 ± 8.532e−15
50
40
30
20
10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


reg_asym_sam8_mean vs run
χ² / ndf 52.1 / 44
p0 −219.1± 83.79
pull
Entries 45
Mean 79.74
Std Dev 0
pull1D
Entries 45
Mean 0.01258
Std Dev 1.076


reg_asym_sam8_rms vs run
χ² / ndf 669.6 / 44
p0 55.64 ± 0.05925
61
60
59
58
57
56
55
54
53
52
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam8_reg_correction_mean vs run
χ² / ndf 33.09 / 44
p0 469.7 ± 317.4
6000
4000
2000
0
−2000
−4000
−6000
−8000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −951.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.003008
Std Dev 0.8575
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam8_reg_correction_rms vs run
χ² / ndf 4640 / 44
p0 210.3 ± 0.2244
250
240
230
220
210
200
190
180
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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6628. 6
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6629. 2
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6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
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6632. 2
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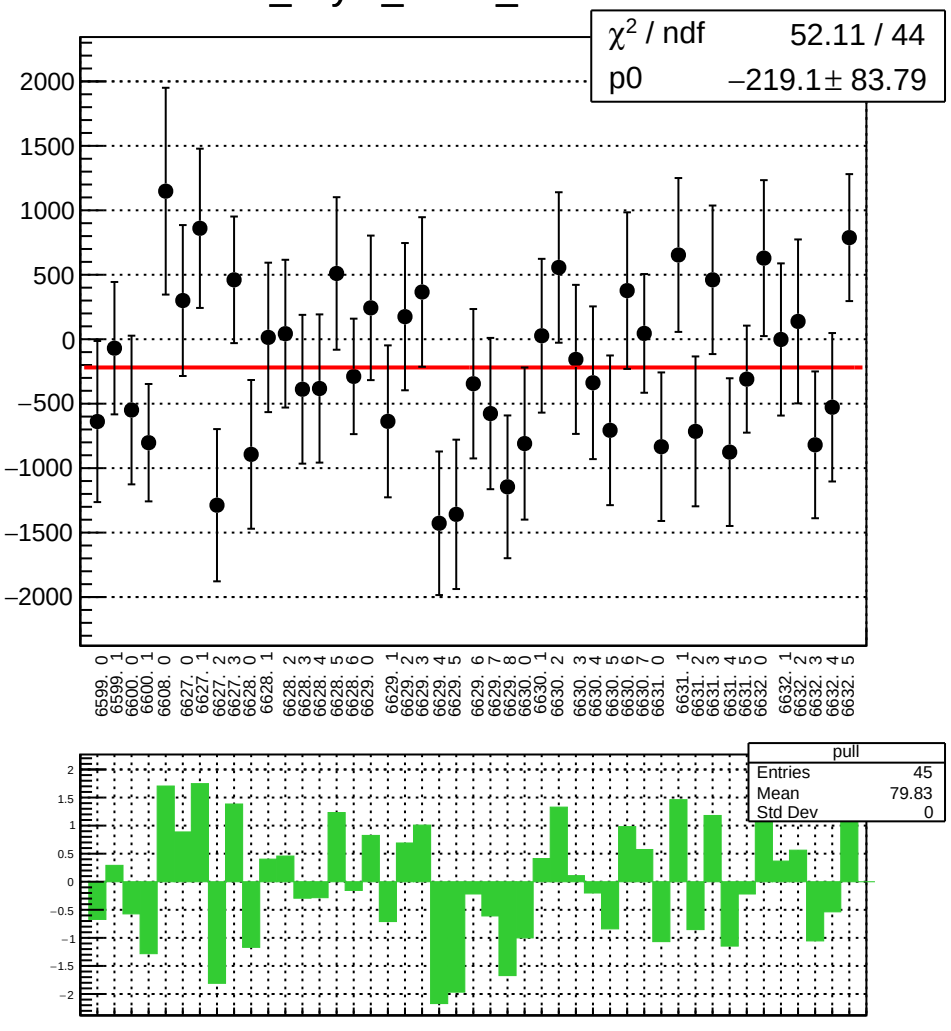
cor_asym_sam8_mean vs run
χ² / ndf 52.11 / 44
p0 −219.1± 83.79
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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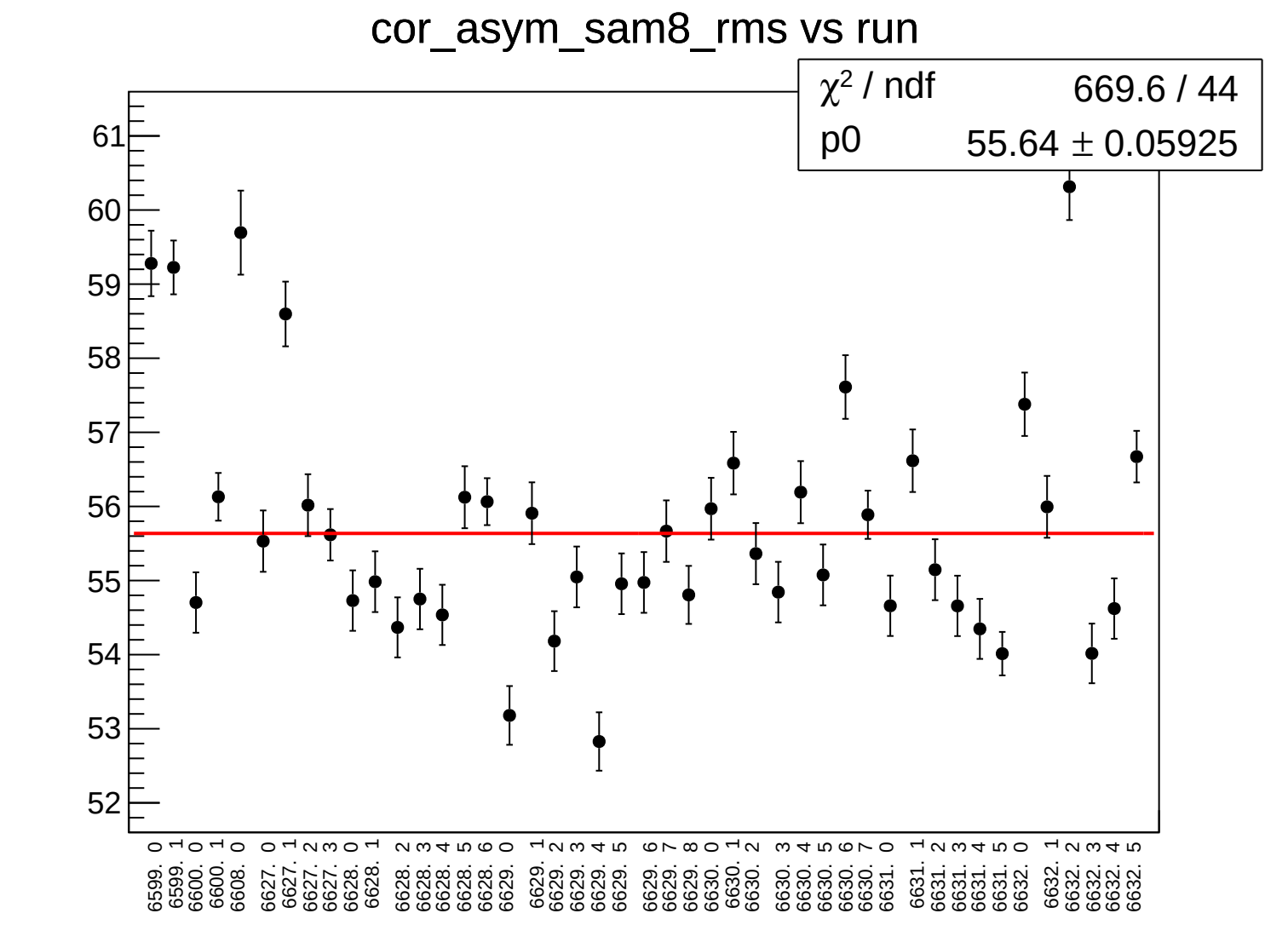
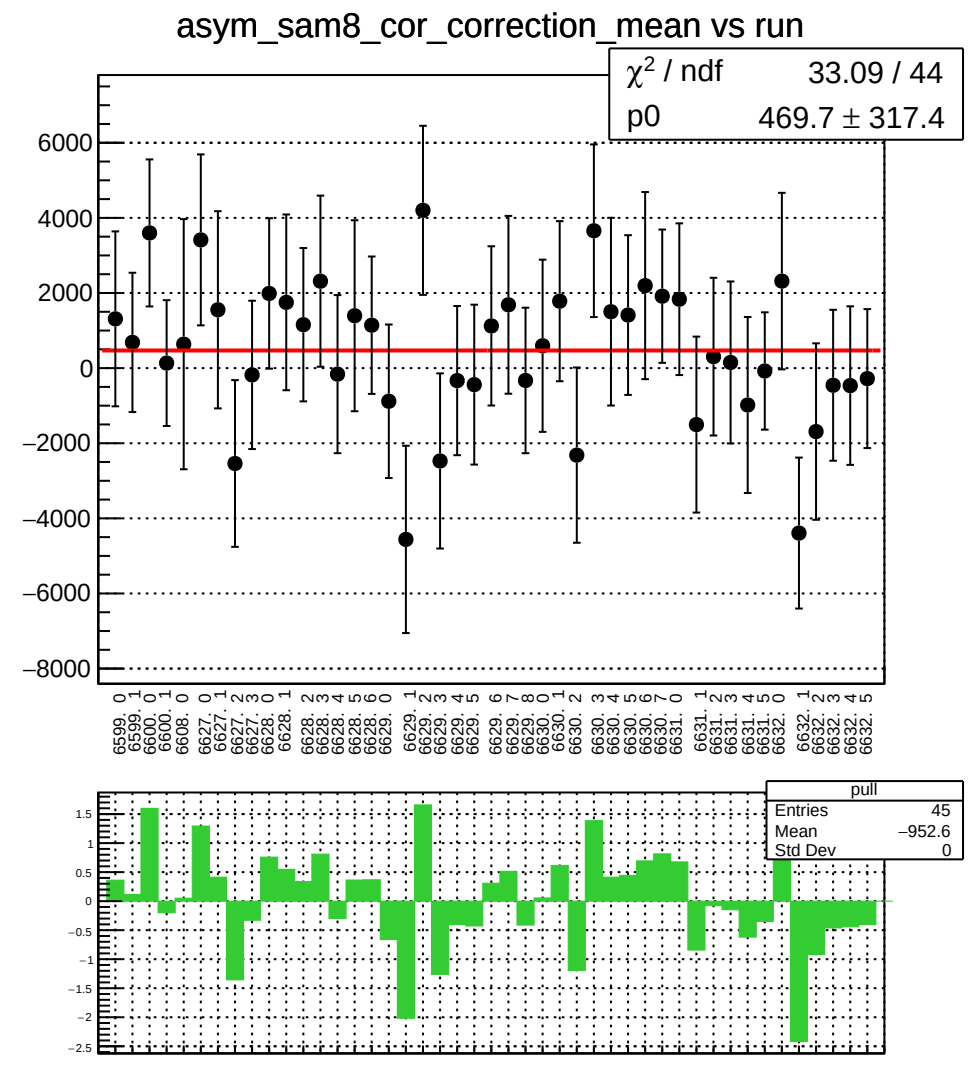
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 79.83
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01258
Std Dev 1.076
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam8_rms vs run
χ² / ndf 669.6 / 44
p0 55.64 ± 0.05925
61
60
59
58
57
56
55
54
53
52
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam8_cor_correction_mean vs run
χ² / ndf 33.09 / 44
p0 469.7 ± 317.4
6000
4000
2000
0
−2000
−4000
−6000
−8000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
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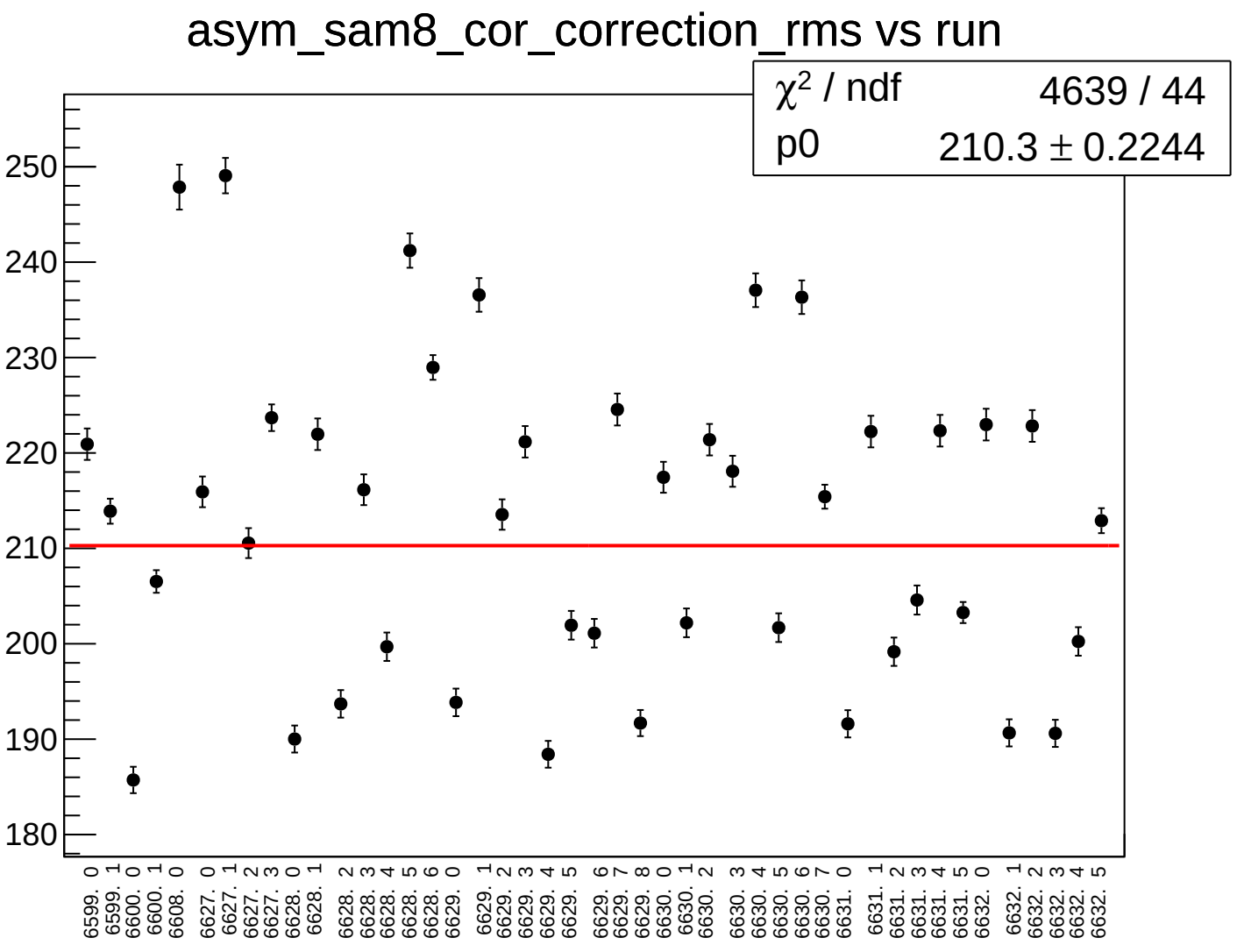
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −952.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.003006
Std Dev 0.8575
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam8_cor_correction_rms vs run
χ² / ndf 4639 / 44
p0 210.3 ± 0.2244
250
240
230
220
210
200
190
180
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
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6628. 5
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6630. 2
6630. 3
6630. 4
6630. 5
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6630. 7
6631. 0
6631. 1
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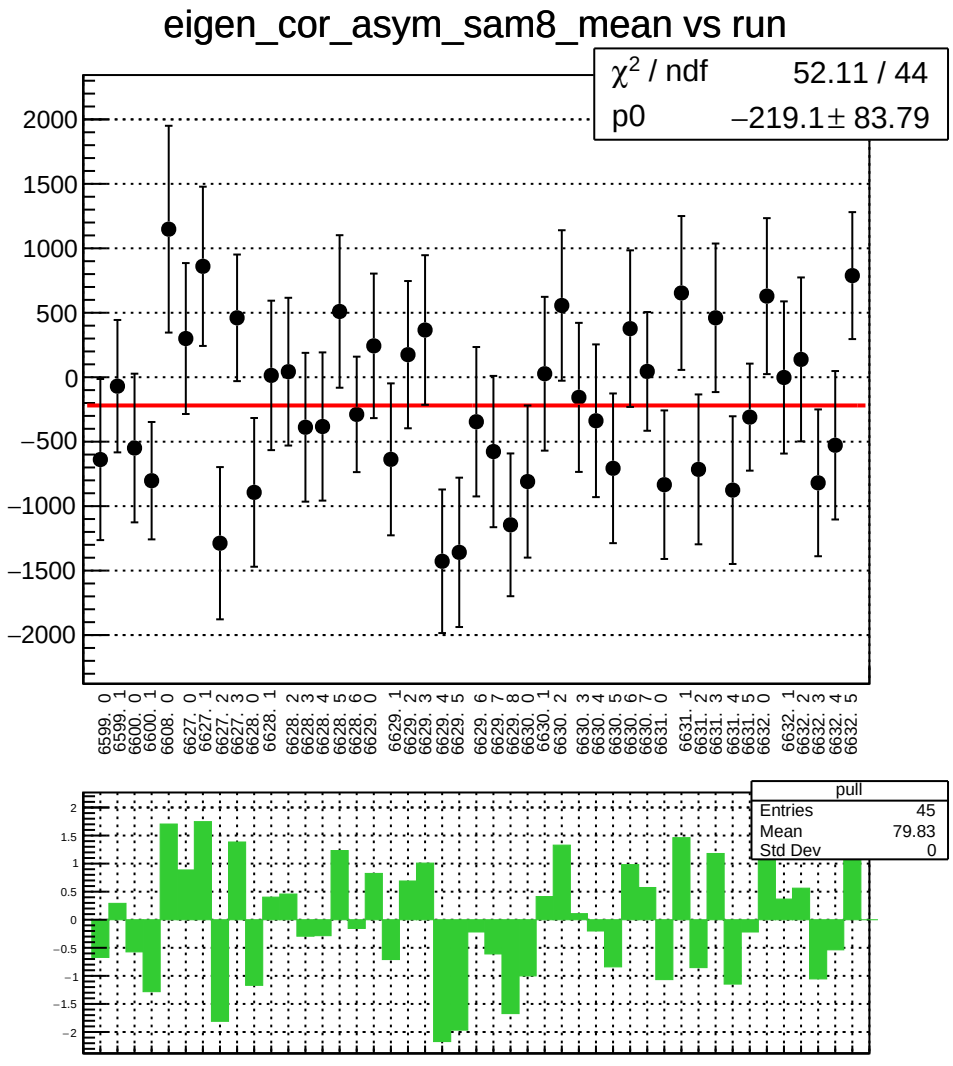
6632. 4
6632. 5


eigen_cor_asym_sam8_mean vs run
χ² / ndf 52.11 / 44
p0 −219.1± 83.79
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 4
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6629. 6
6629. 7
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6630. 1
6630. 2
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6630. 6
6630. 7
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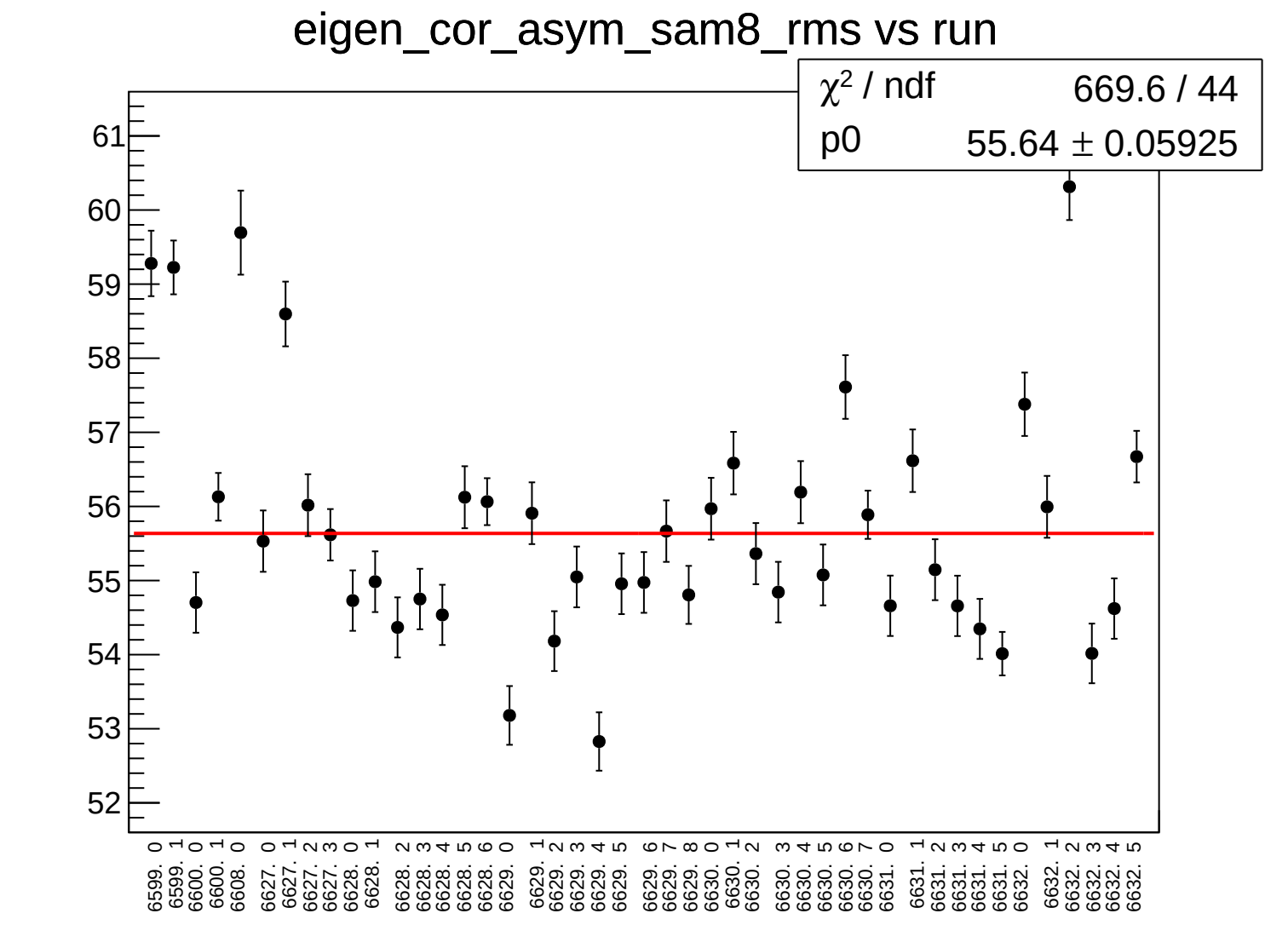
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 79.83
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01258
Std Dev 1.076
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam8_rms vs run
χ² / ndf 669.6 / 44
p0 55.64 ± 0.05925
61
60
59
58
57
56
55
54
53
52
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
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6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
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6632. 0
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6632. 2
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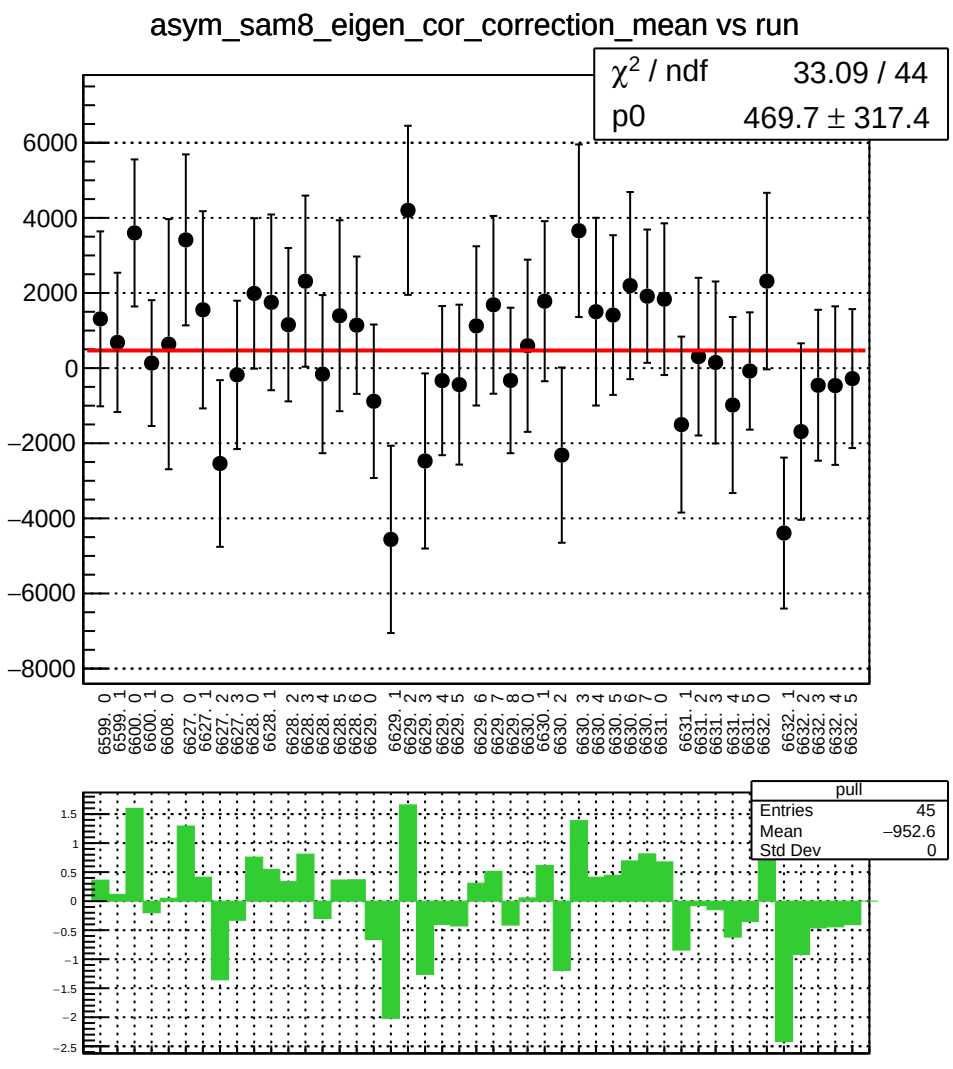
6632. 4
6632. 5


asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 33.09 / 44
p0 469.7 ± 317.4
6000
4000
2000
0
−2000
−4000
−6000
−8000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
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6629. 8
6630. 0
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6630. 5
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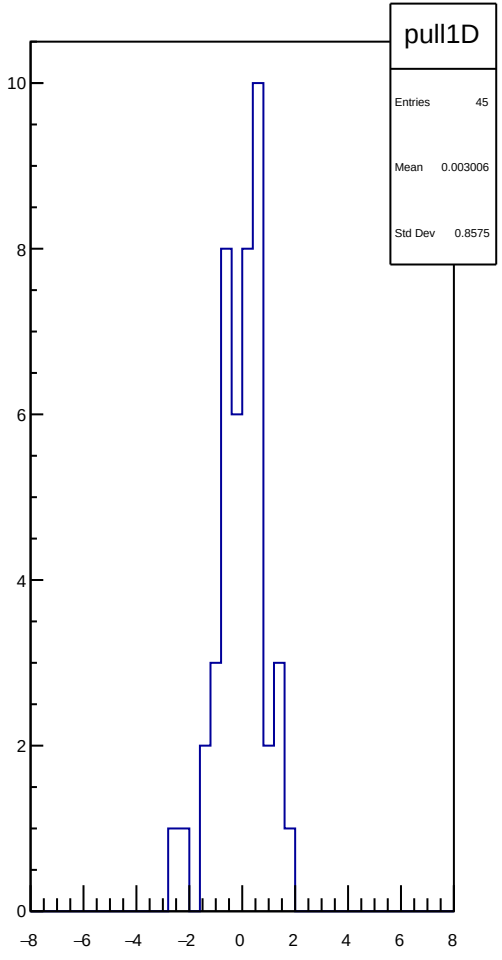
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −952.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.003006
Std Dev 0.8575
10
8
6
4
2
0
−8
−6
−4
−2
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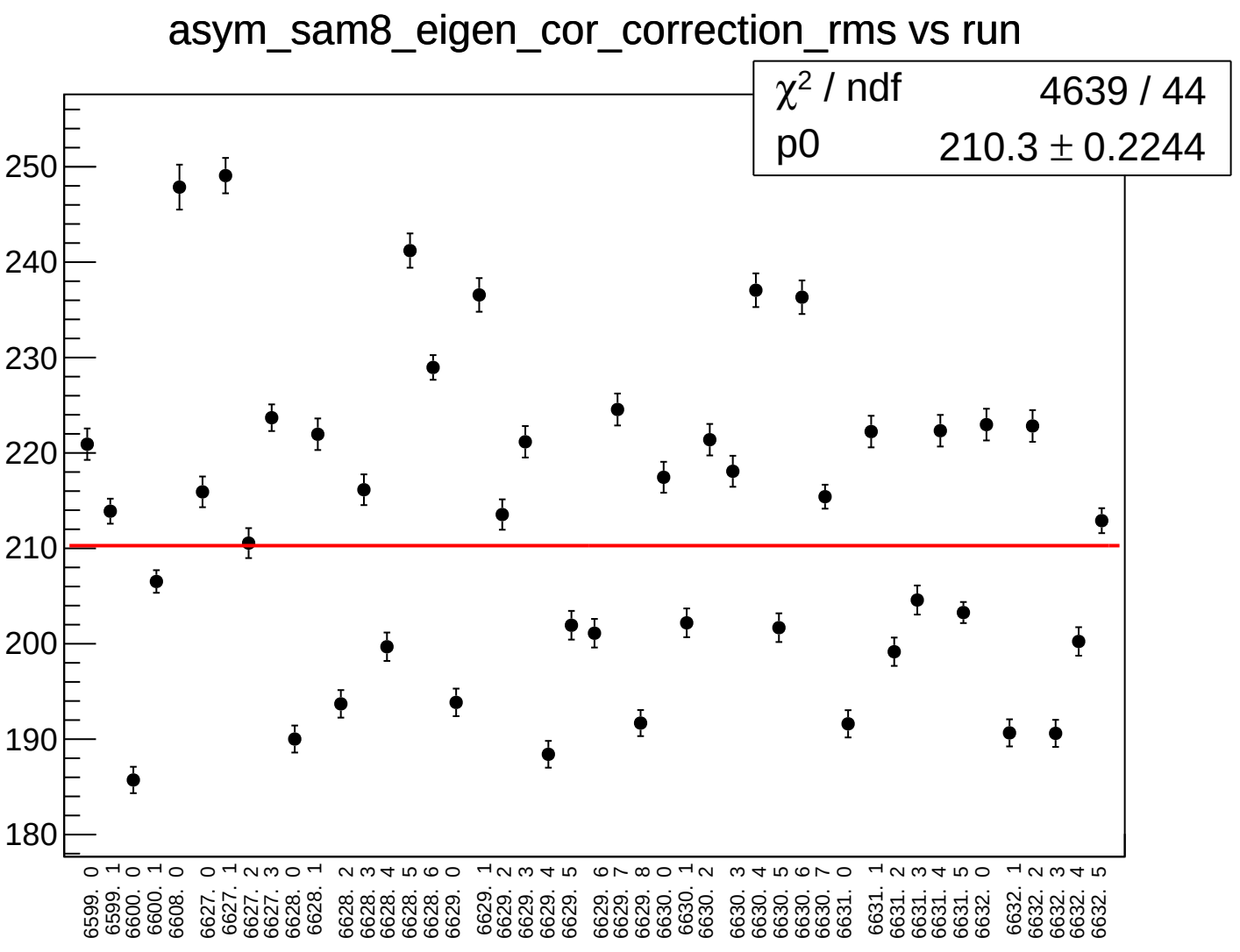
2
4
6
8


asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 4639 / 44
p0 210.3 ± 0.2244
250
240
230
220
210
200
190
180
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 2
6627. 3
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6629. 8
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6631. 0
6631. 1
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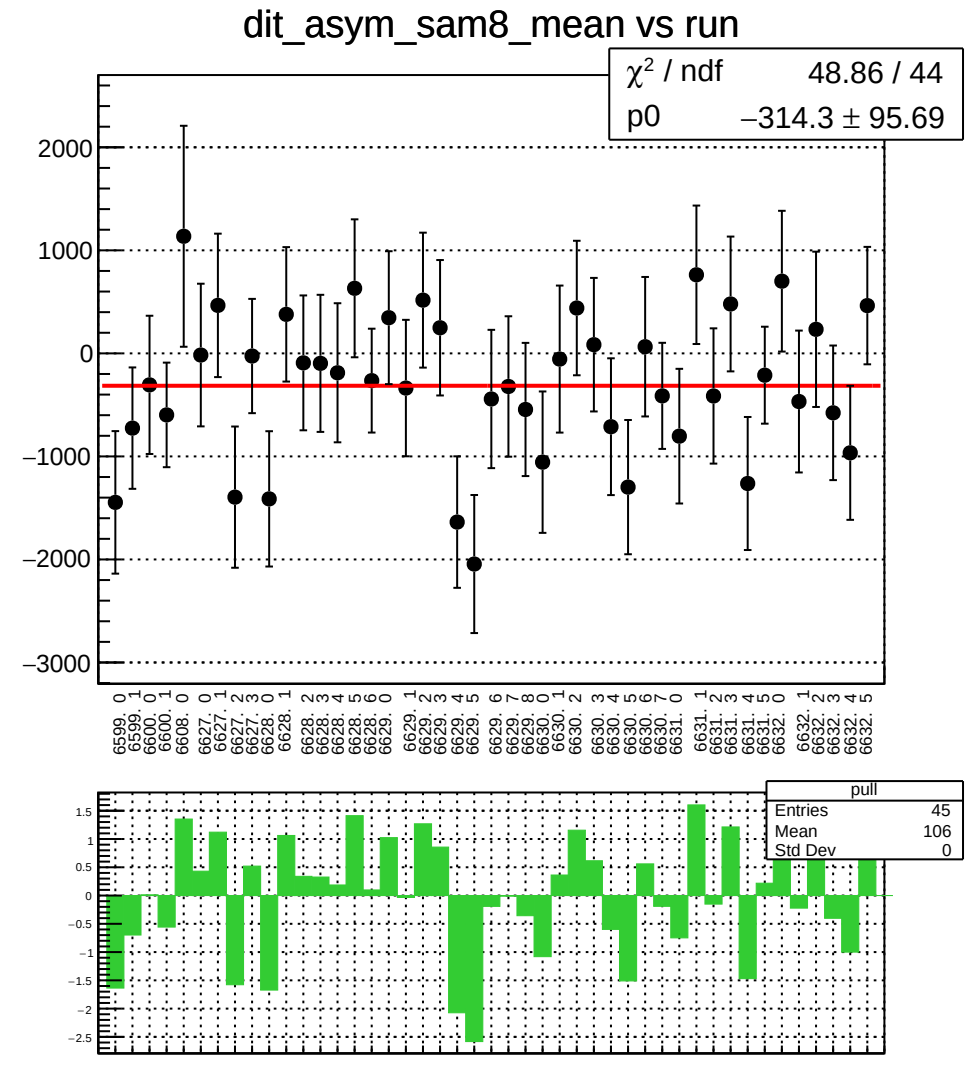
6632. 5


dit_asym_sam8_mean vs run
χ² / ndf 48.86 / 44
p0 −314.3 ± 95.69
2000
1000
0
−1000
−2000
−3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
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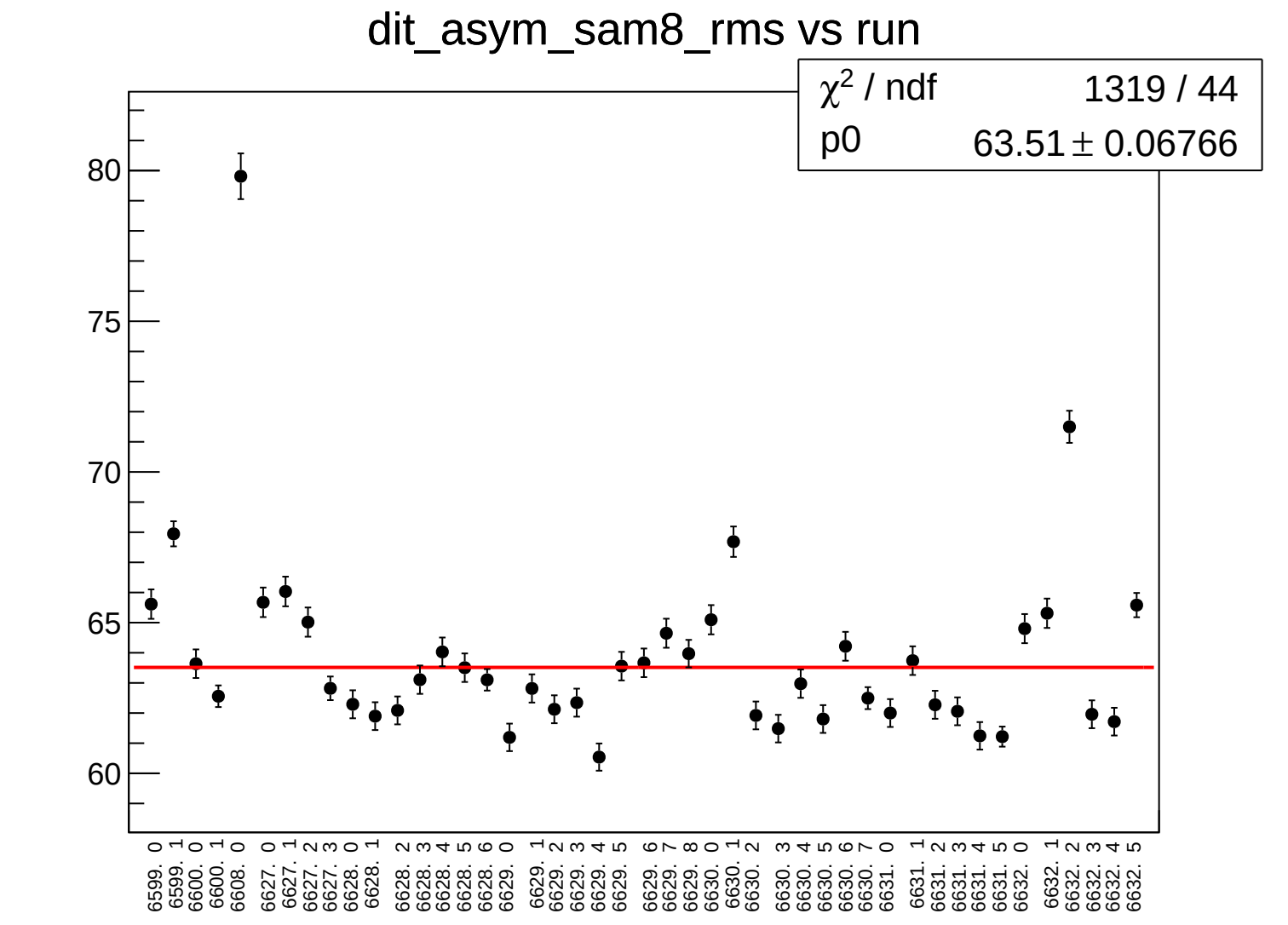
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 106
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.01239
Std Dev 1.042
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam8_rms vs run
$\chi^2$ / ndf 1319 / 44
p0 63.51 ± 0.06766
80
75
70
65
60
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
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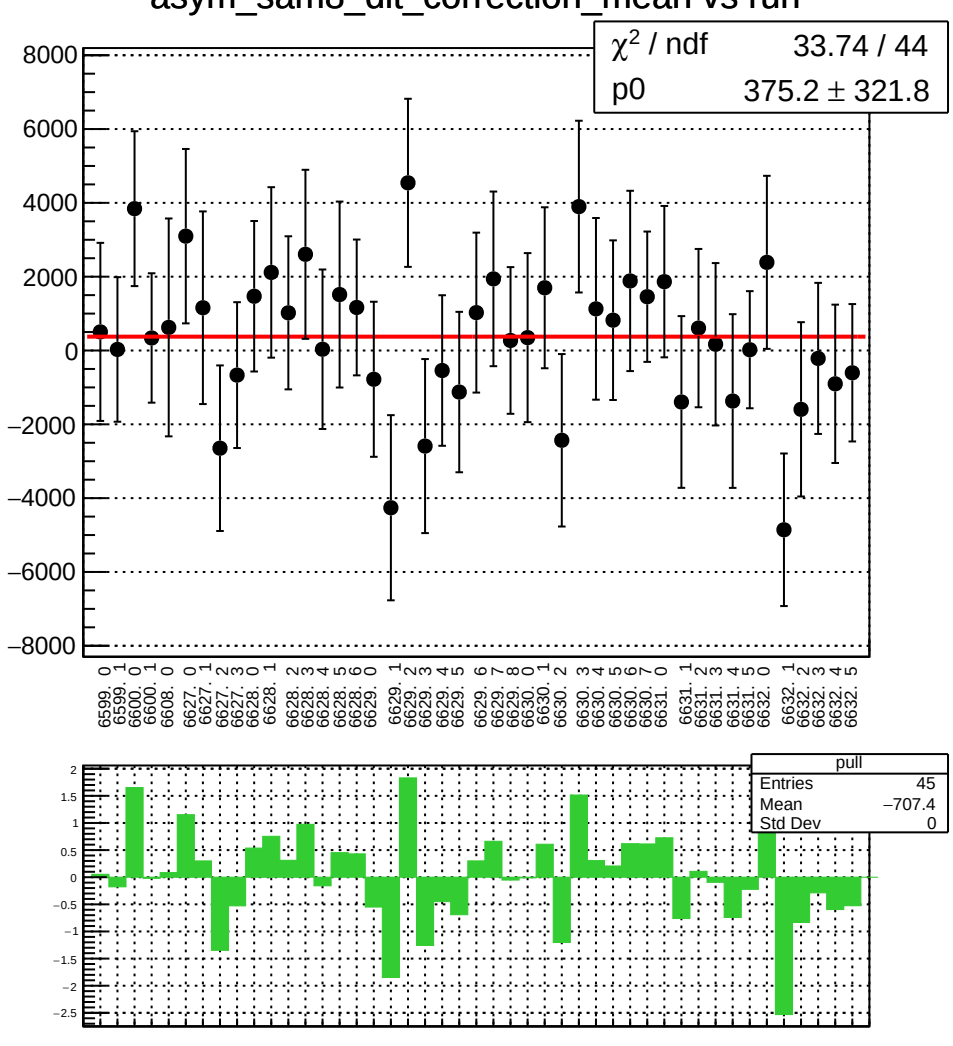
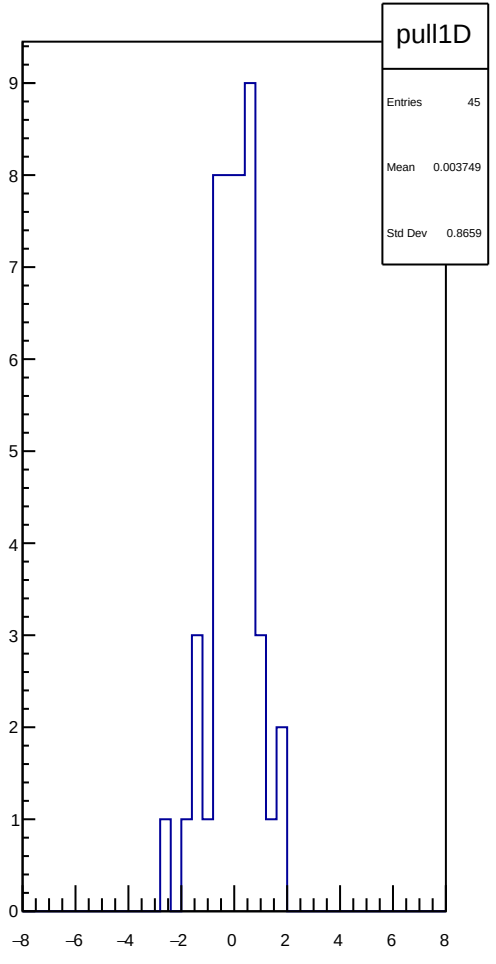
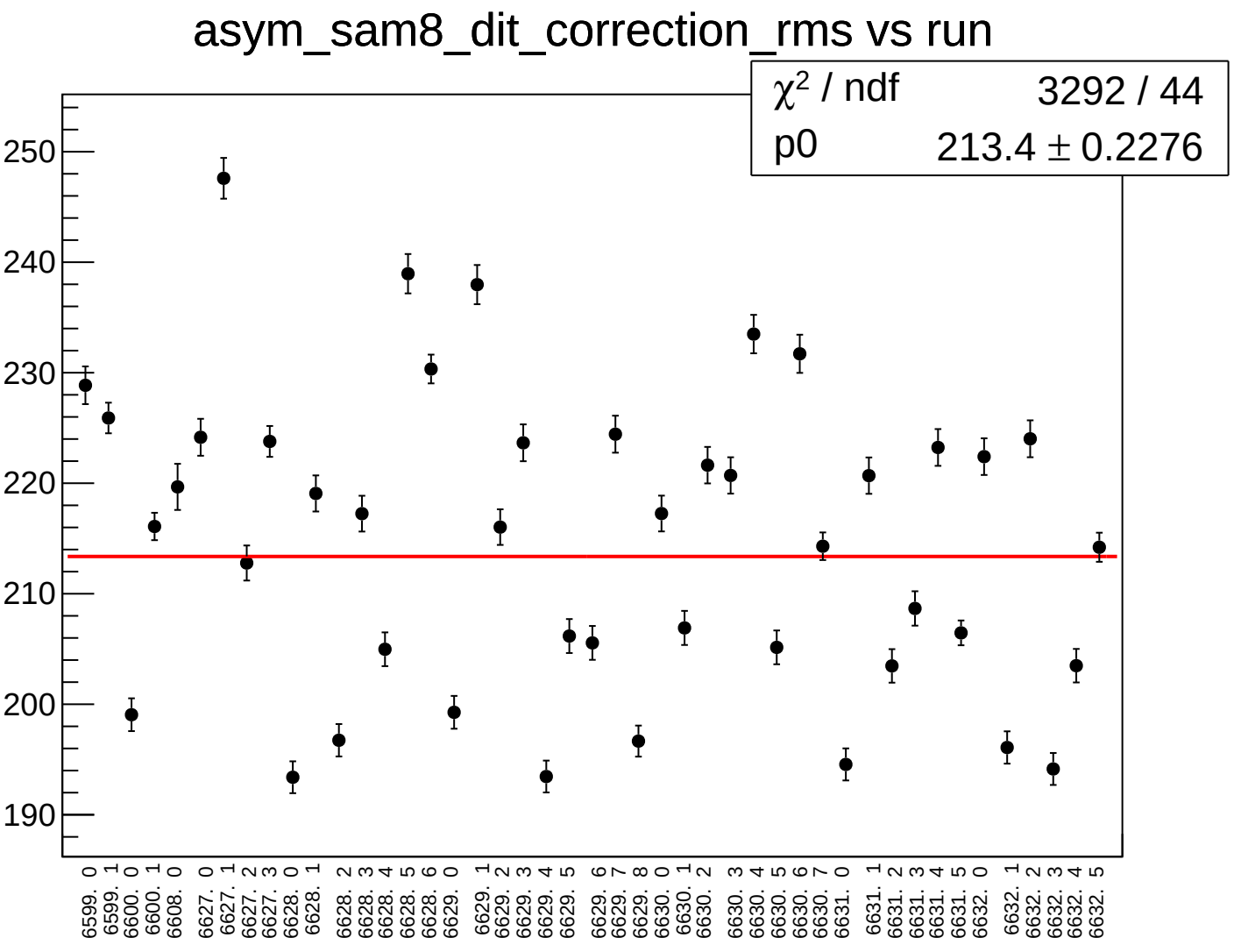
6632. 4
6632. 5


asym_sam8_dit_correction_mean vs run
χ² / ndf 33.74 / 44
p0 375.2 ± 321.8
pull
Entries 45
Mean −707.4
Std Dev 0


pull1D
Entries 45
Mean 0.003749
Std Dev 0.8659


asym_sam8_dit_correction_rms vs run
χ² / ndf 3292 / 44
p0 213.4 ± 0.2276
250
240
230
220
210
200
190
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
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6632. 0
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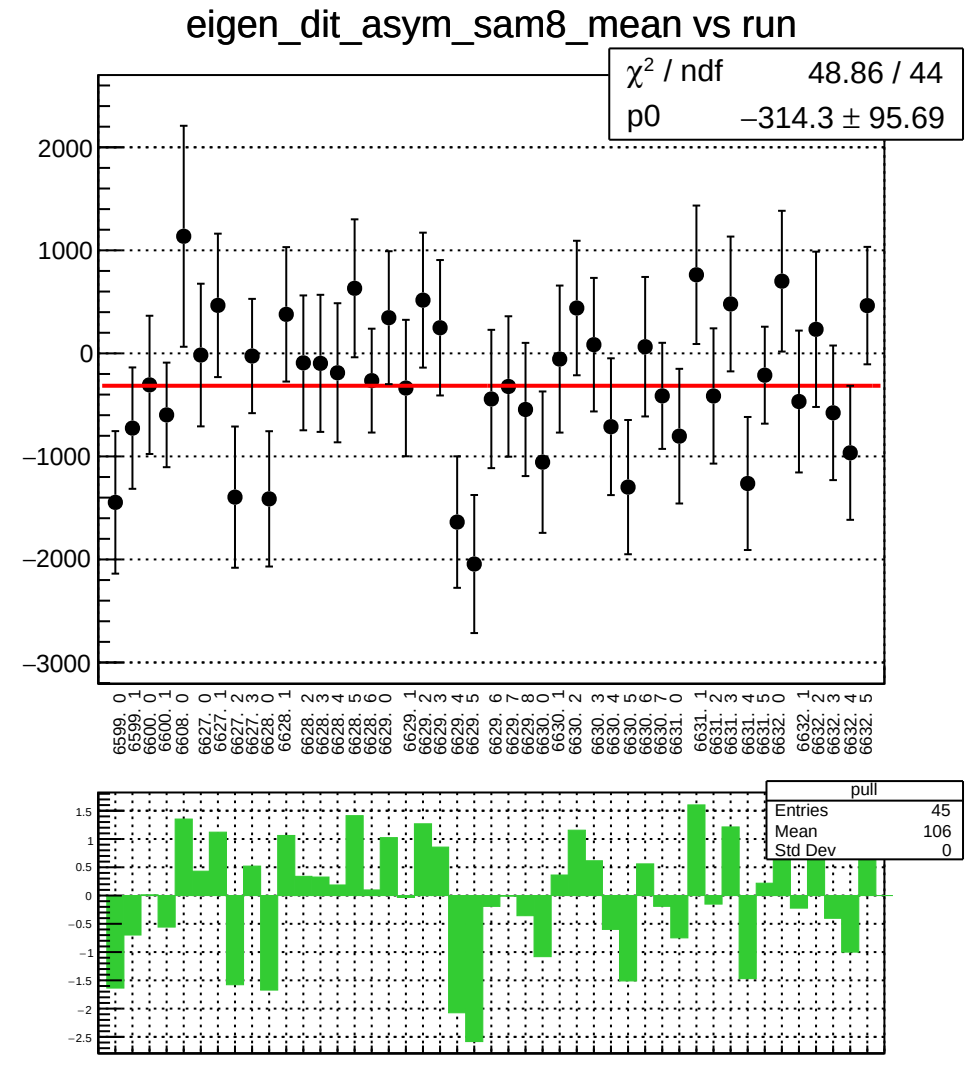
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_sam8_mean vs run
χ² / ndf 48.86 / 44
p0 −314.3 ± 95.69
2000
1000
0
−1000
−2000
−3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
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6629. 7
6629. 8
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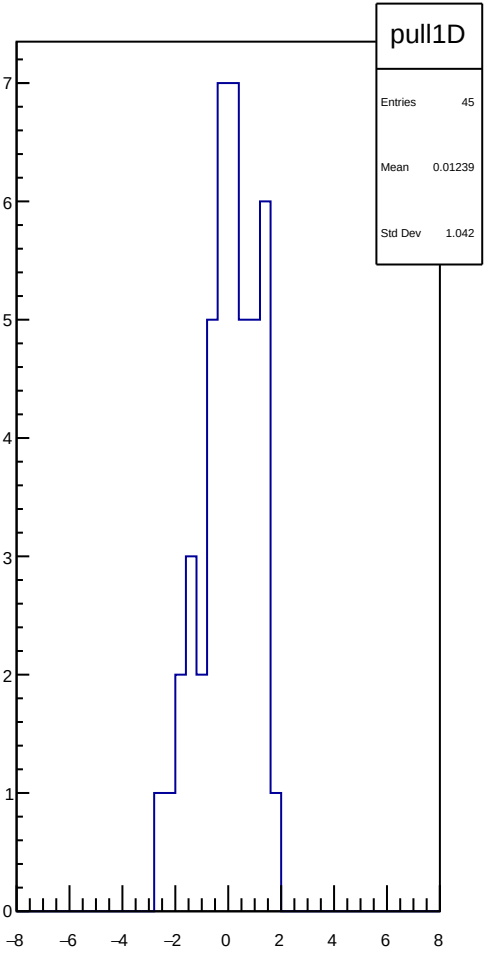
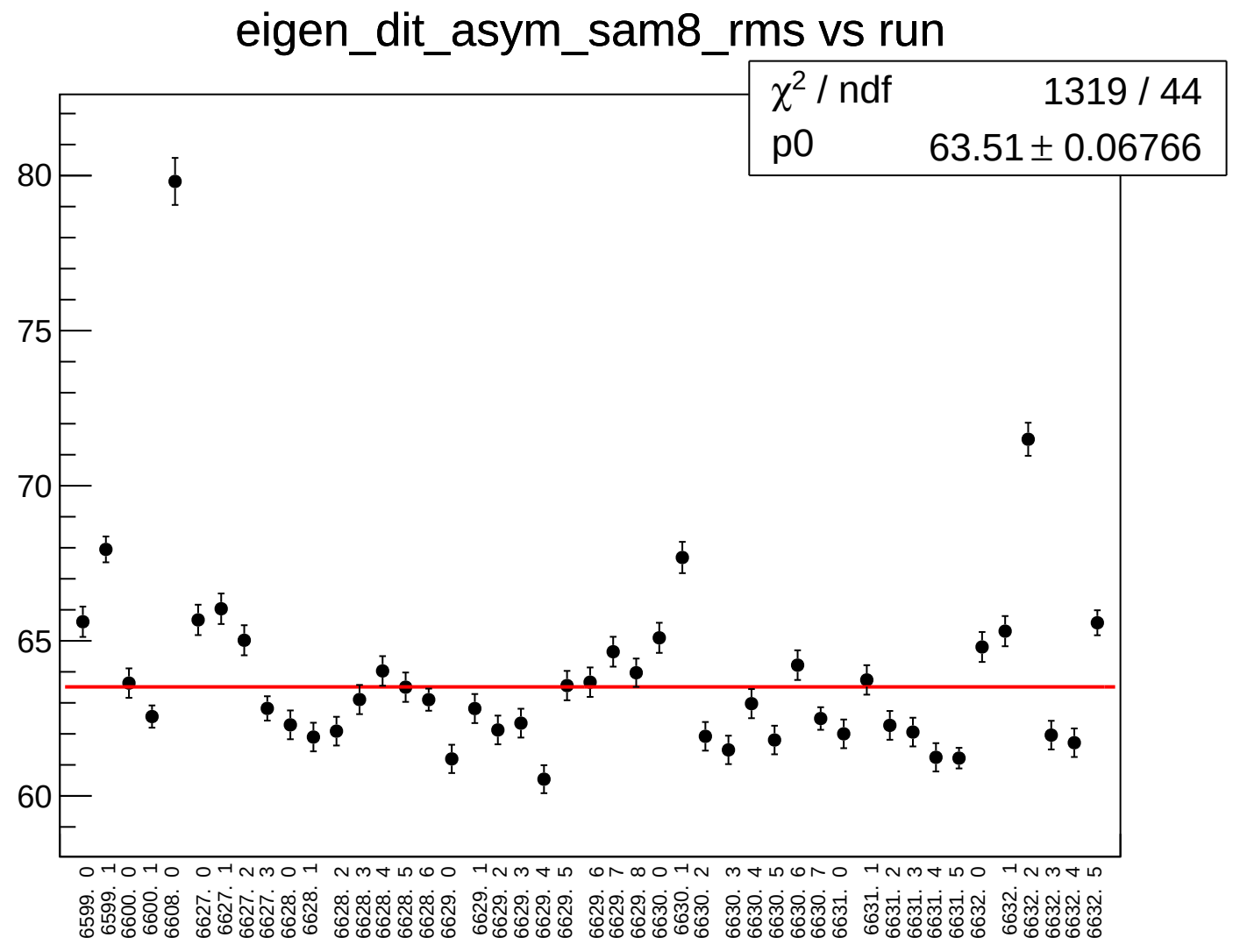
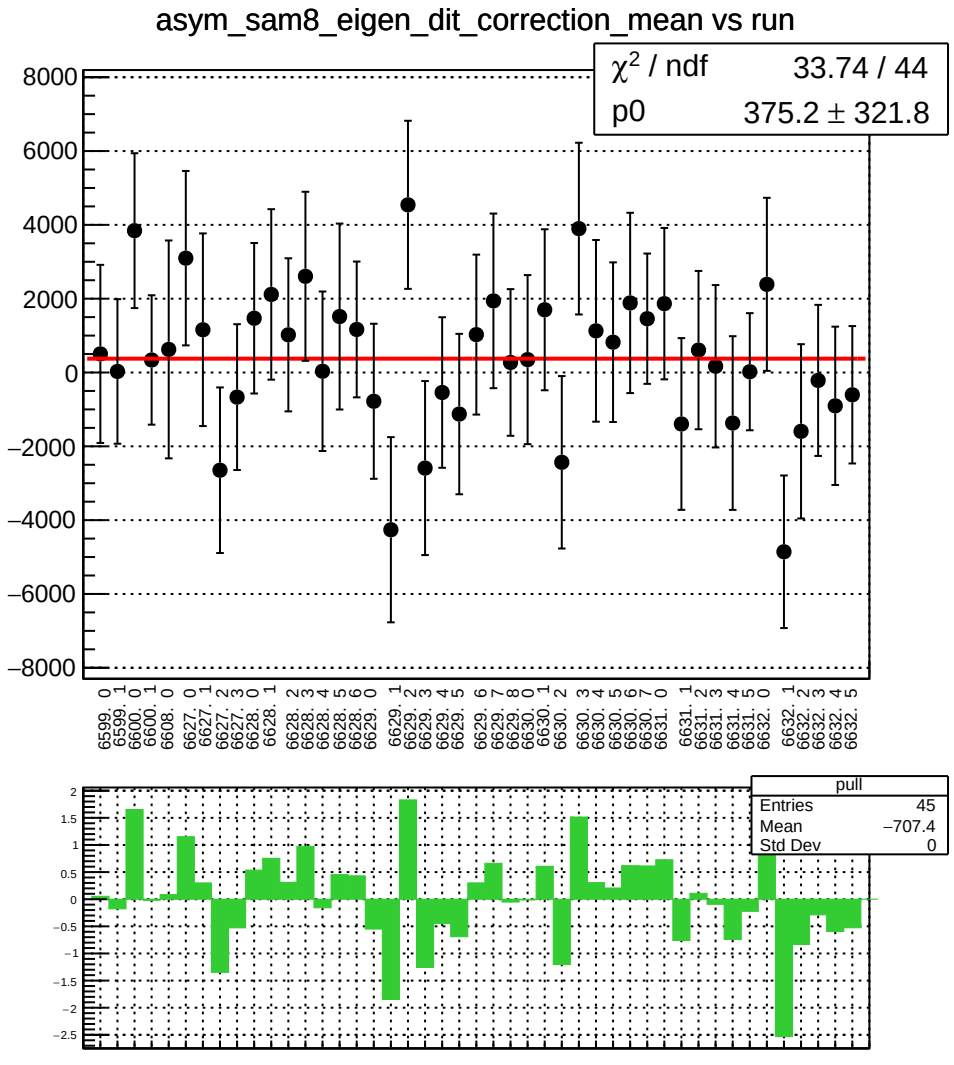
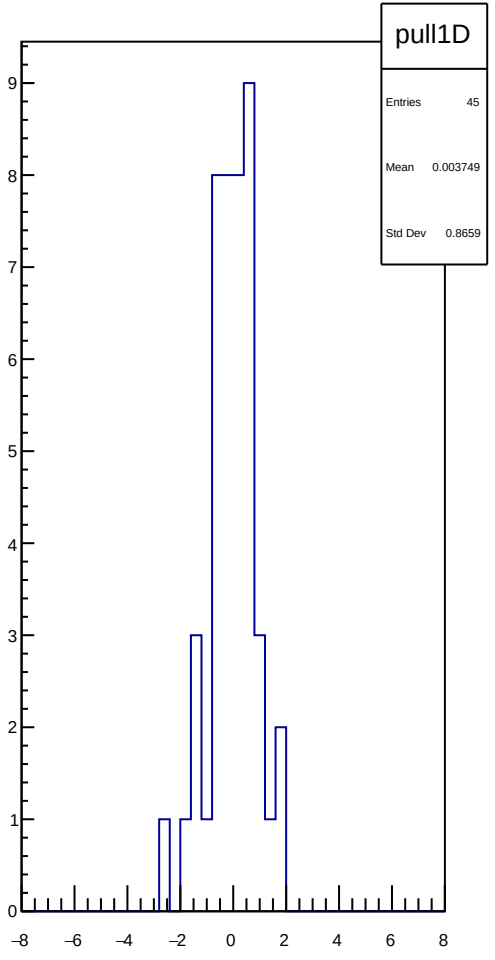
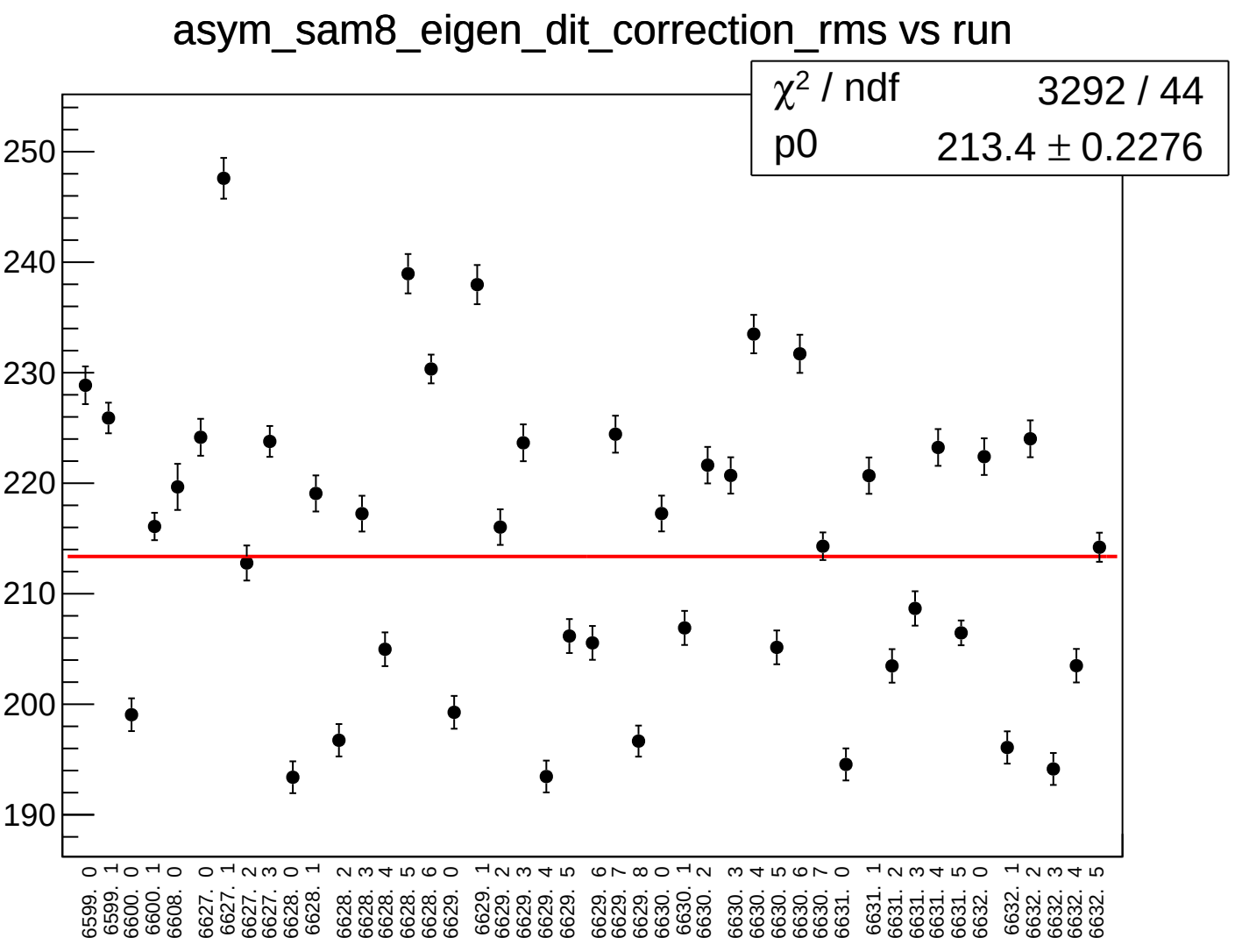
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 106
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.01239
Std Dev 1.042
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam8_rms vs run
$\chi^2$ / ndf 1319 / 44
p0 63.51 ± 0.06766
80
75
70
65
60
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 33.74 / 44
p0 375.2 ± 321.8
pull
Entries 45
Mean −707.4
Std Dev 0


pull1D
Entries 45
Mean 0.003749
Std Dev 0.8659


asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 3292 / 44
p0 213.4 ± 0.2276
250
240
230
220
210
200
190
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
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6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
6632. 0
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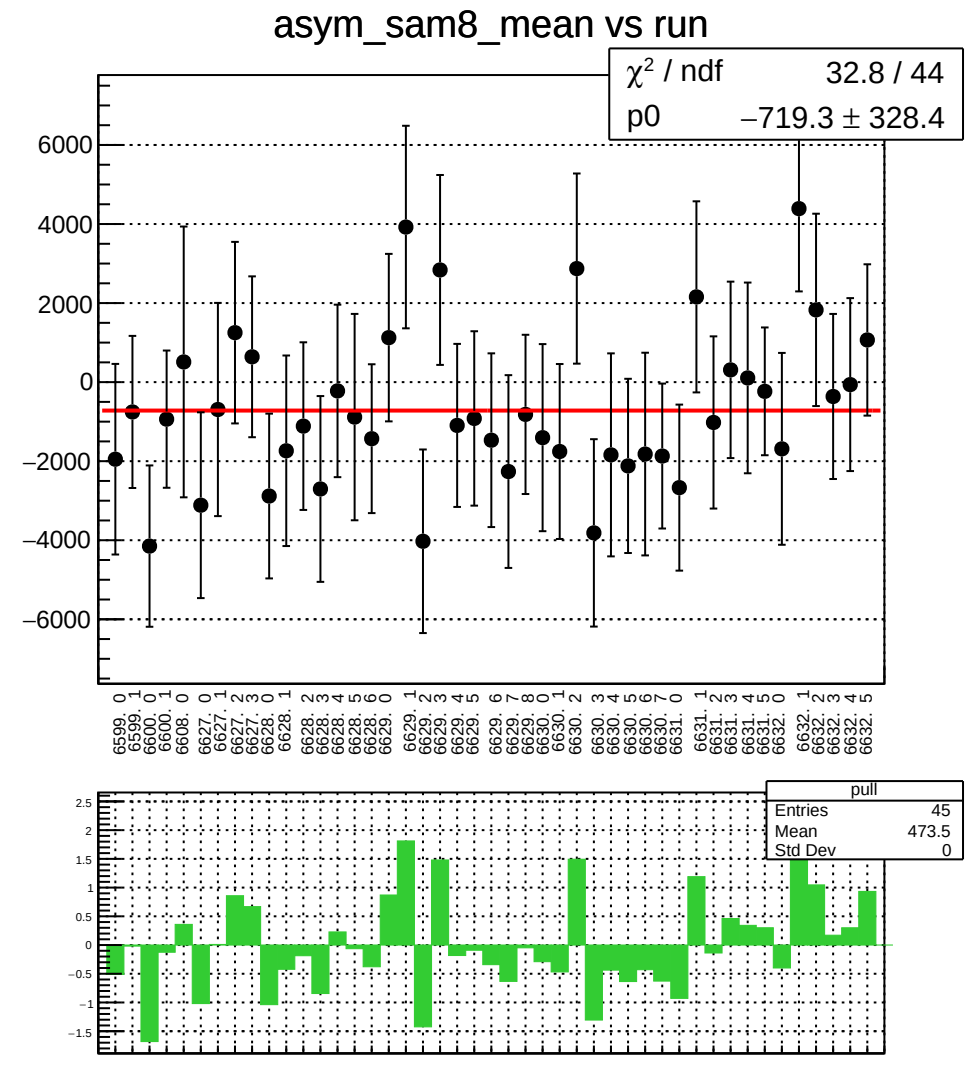
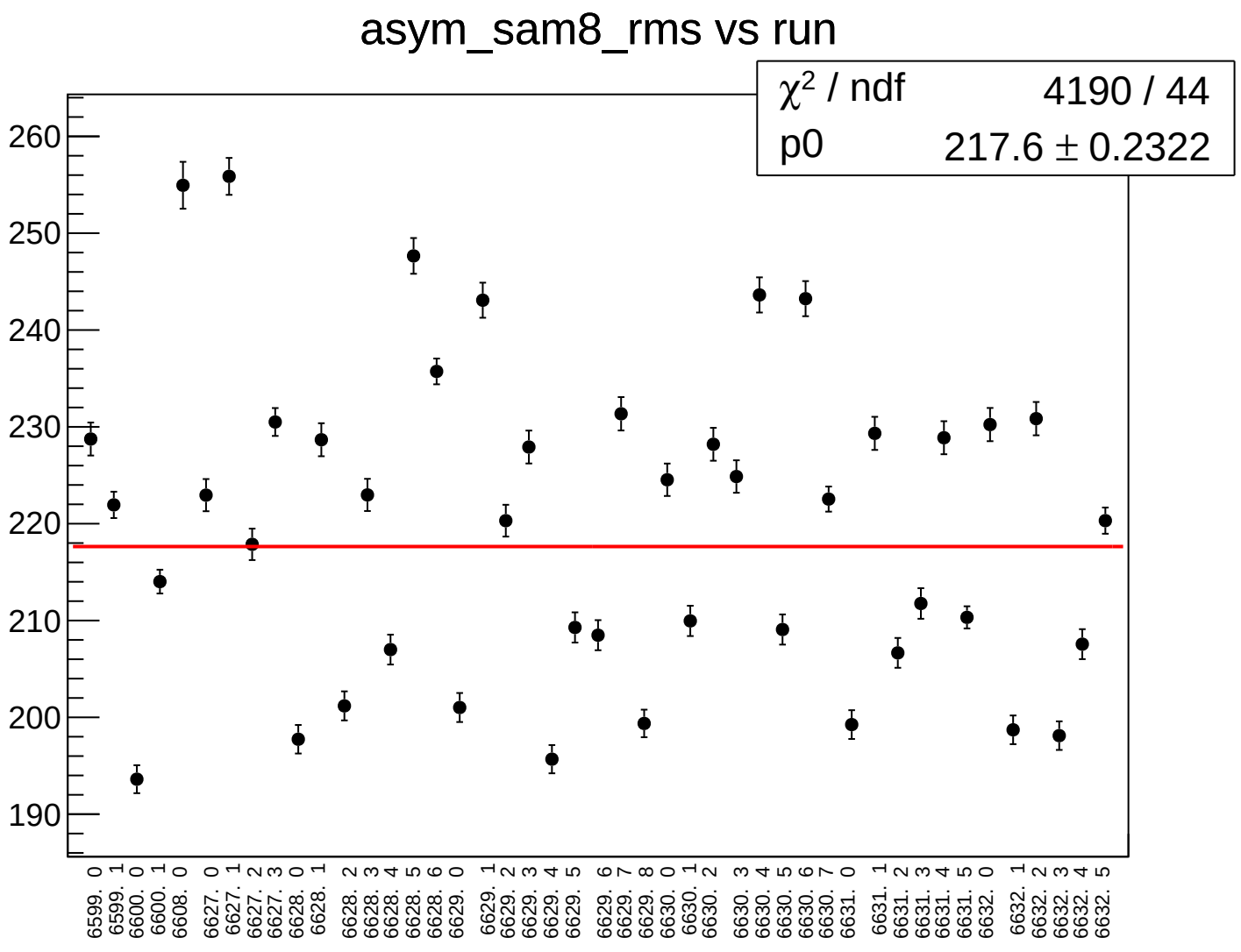
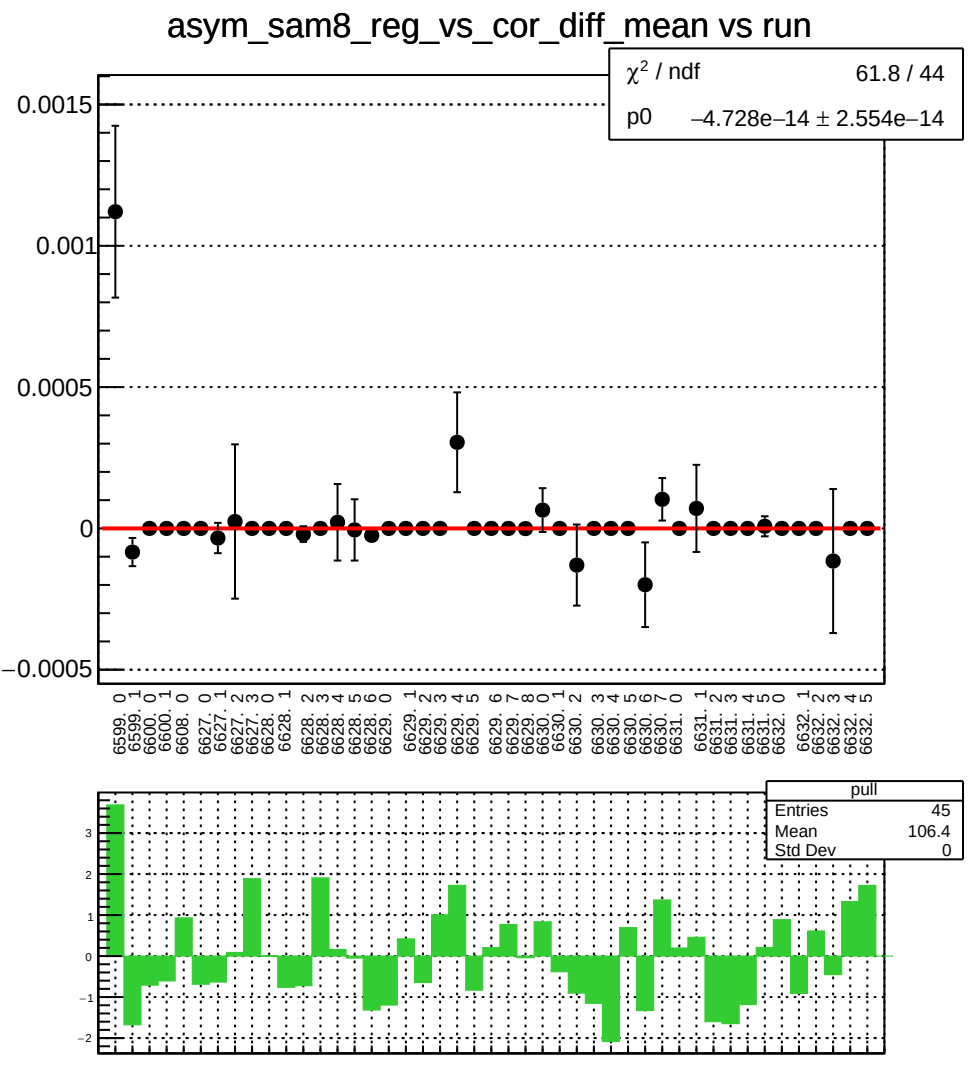
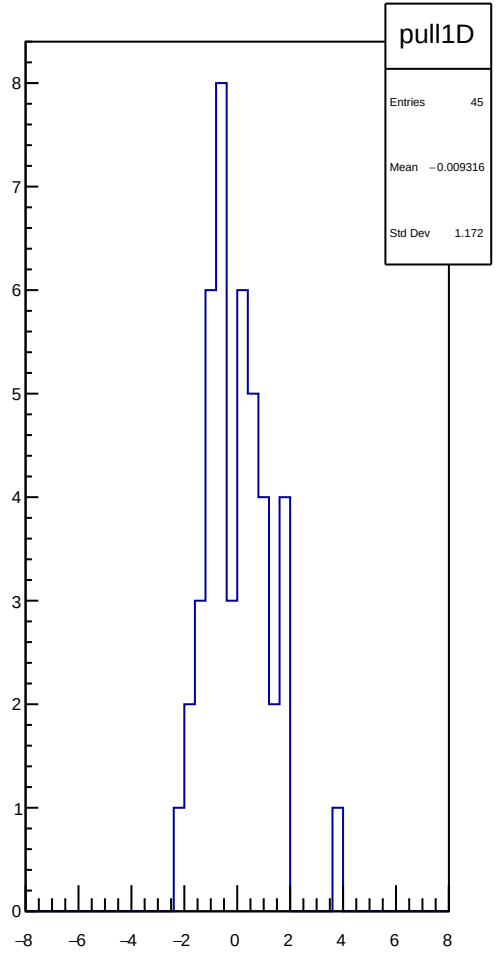
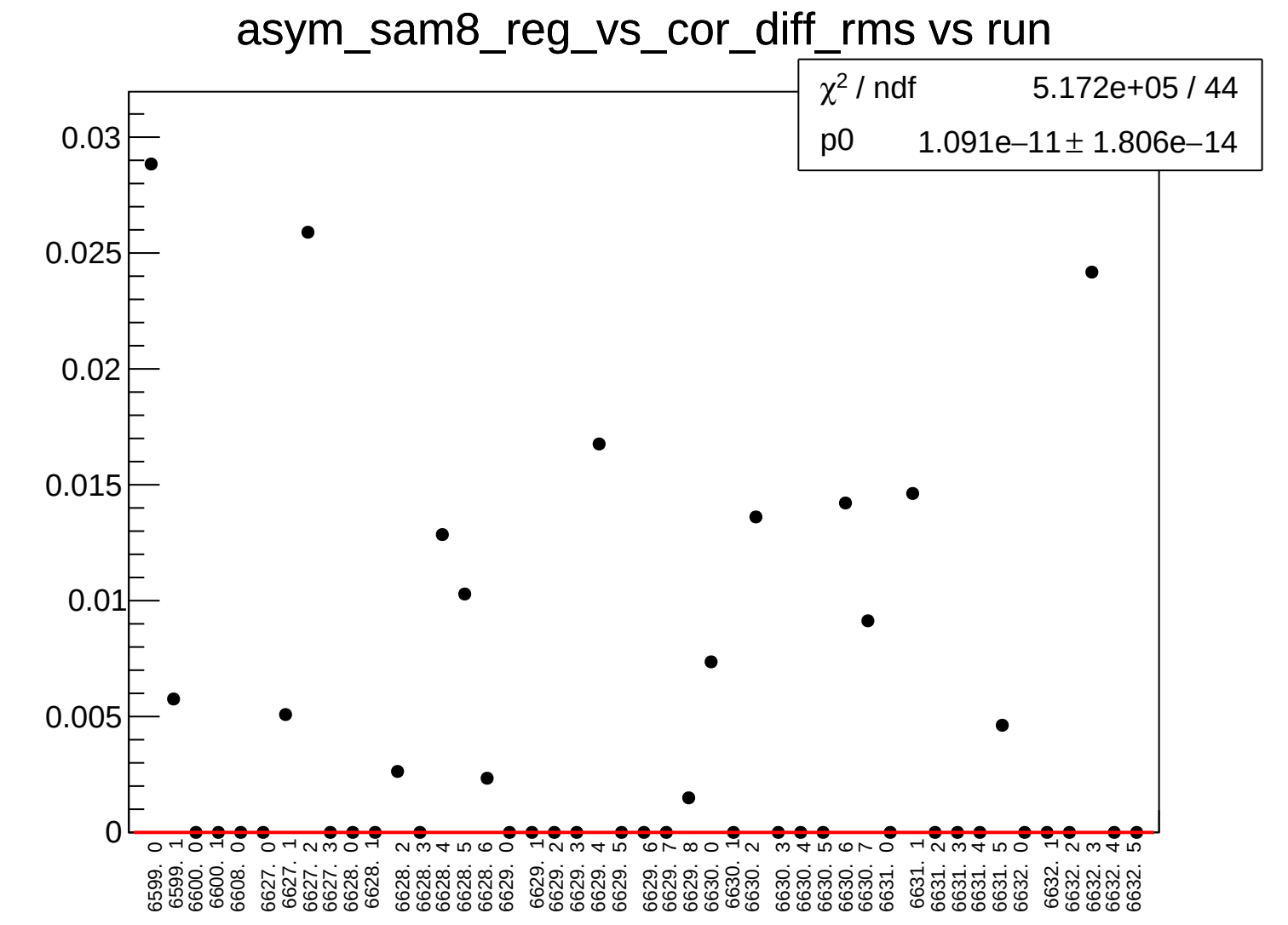
6632. 4
6632. 5


asym_sam8_mean vs run
χ² / ndf 32.8 / 44
p0 −719.3 ± 328.4
6000
4000
2000
0
−2000
−4000
−6000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 473.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.006772
Std Dev 0.8537
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam8_rms vs run
χ² / ndf 4190 / 44
p0 217.6 ± 0.2322
260
250
240
230
220
210
200
190
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam8_reg_vs_cor_diff_mean vs run
χ² / ndf 61.8 / 44
p0 −4.728e−14 ± 2.554e−14
0.0015
0.001
0.0005
0
−0.0005
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 106.4
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.009316
Std Dev 1.172
8
7
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 5.172e+05 / 44
p0 1.091e−11 ± 1.806e−14
0.03
0.025
0.02
0.015
0.01
0.005
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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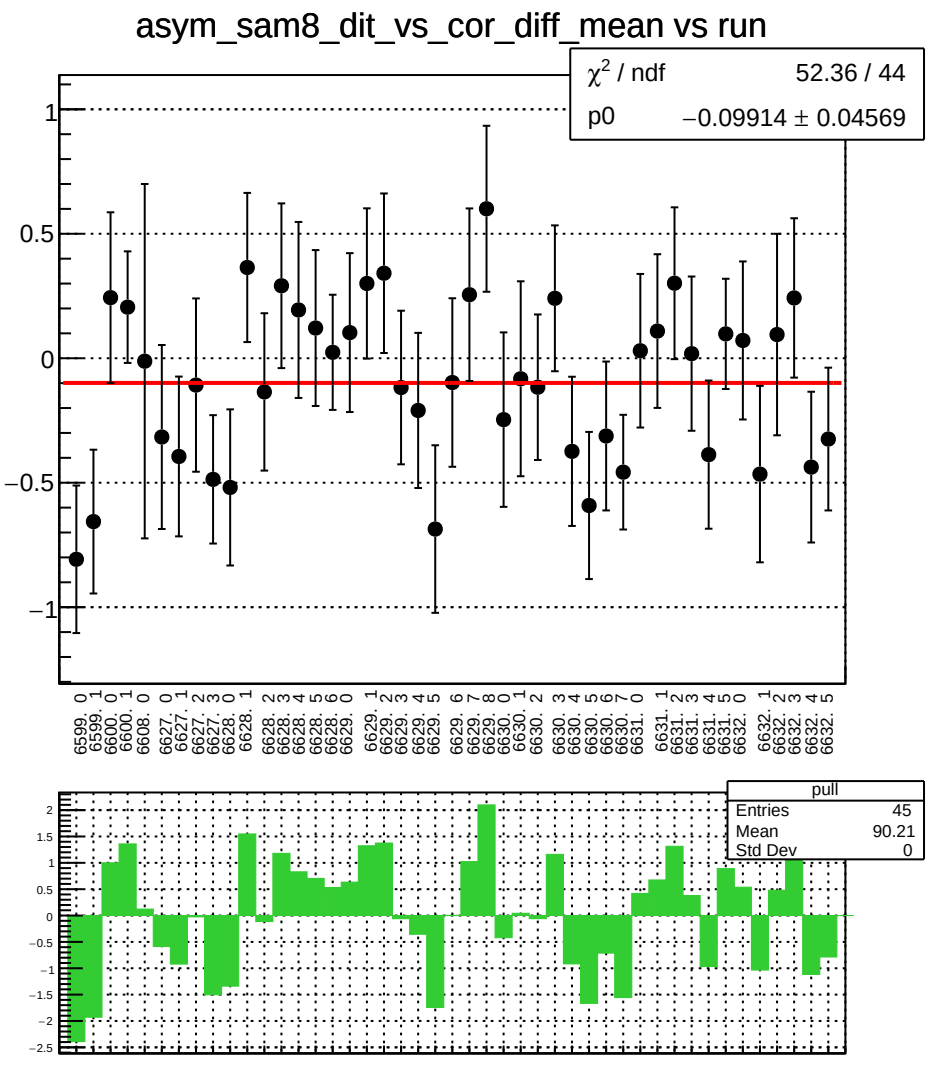
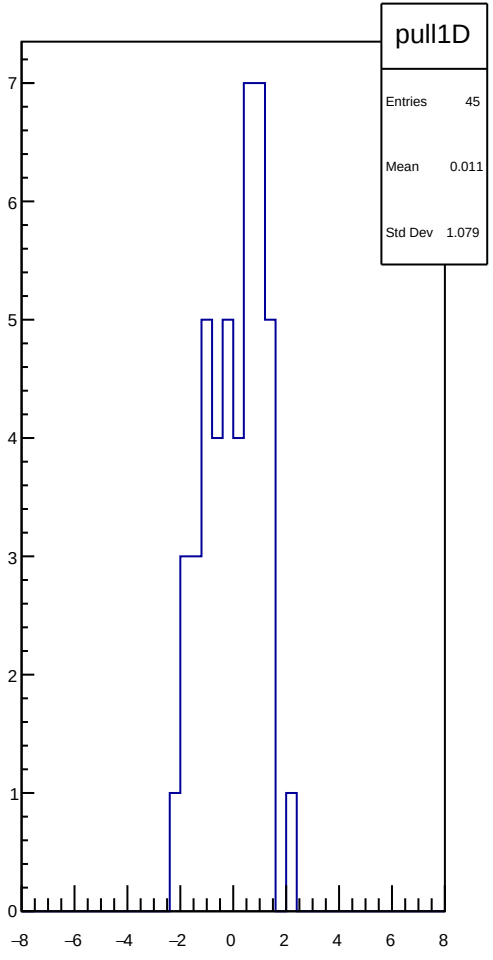
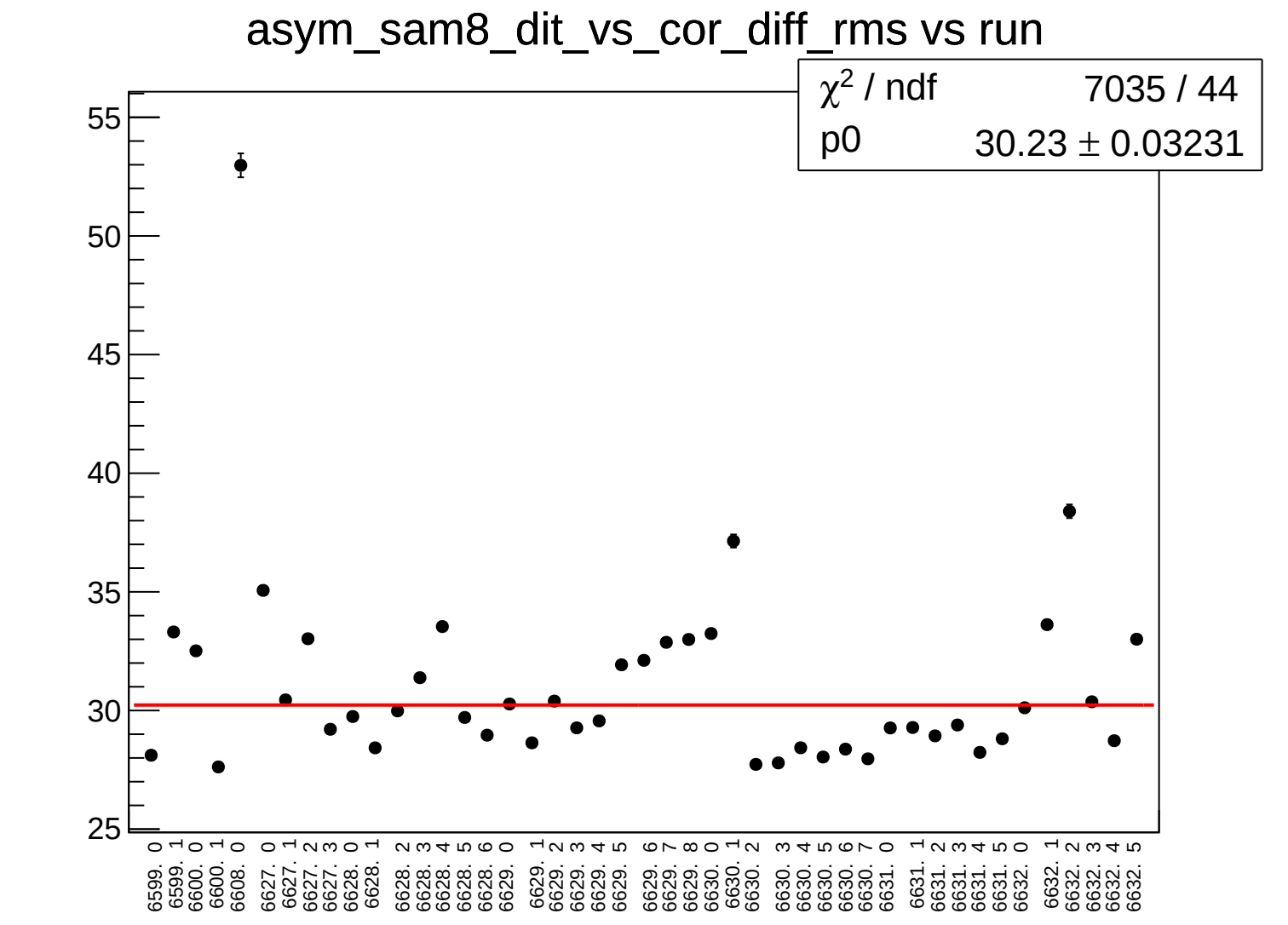
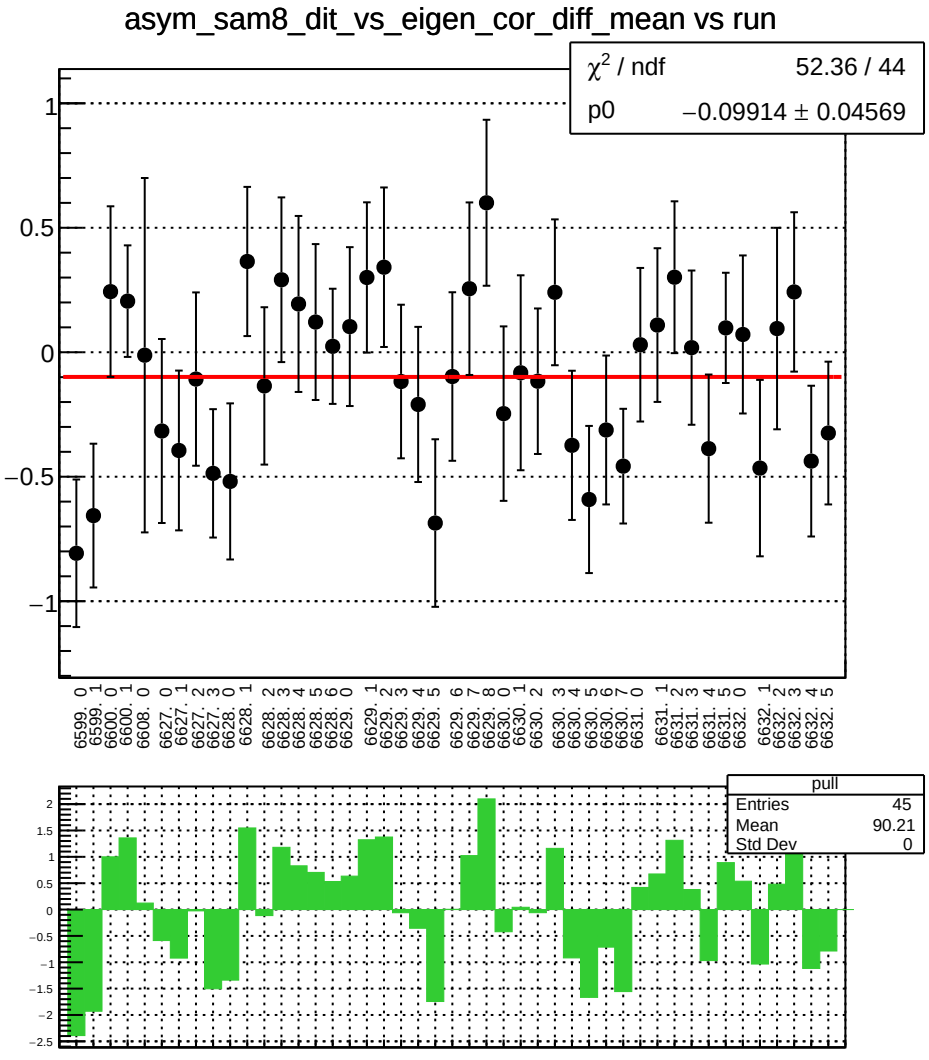
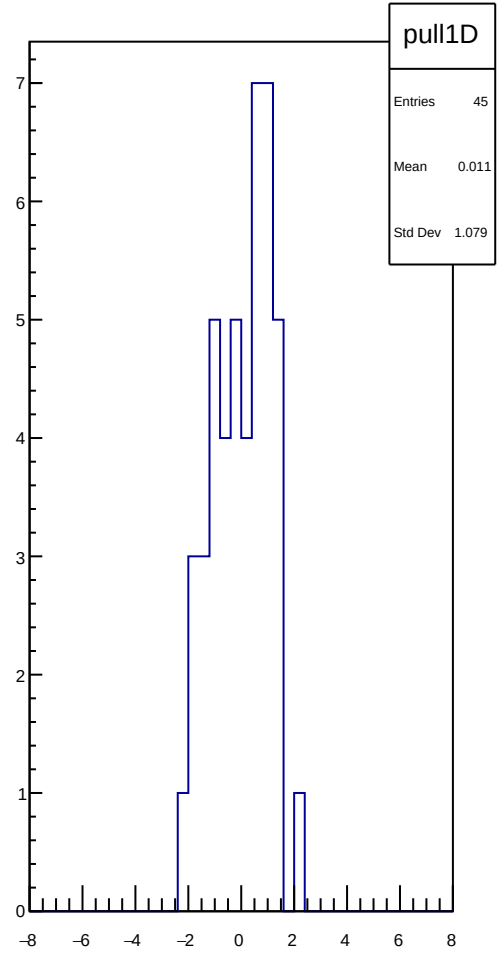
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

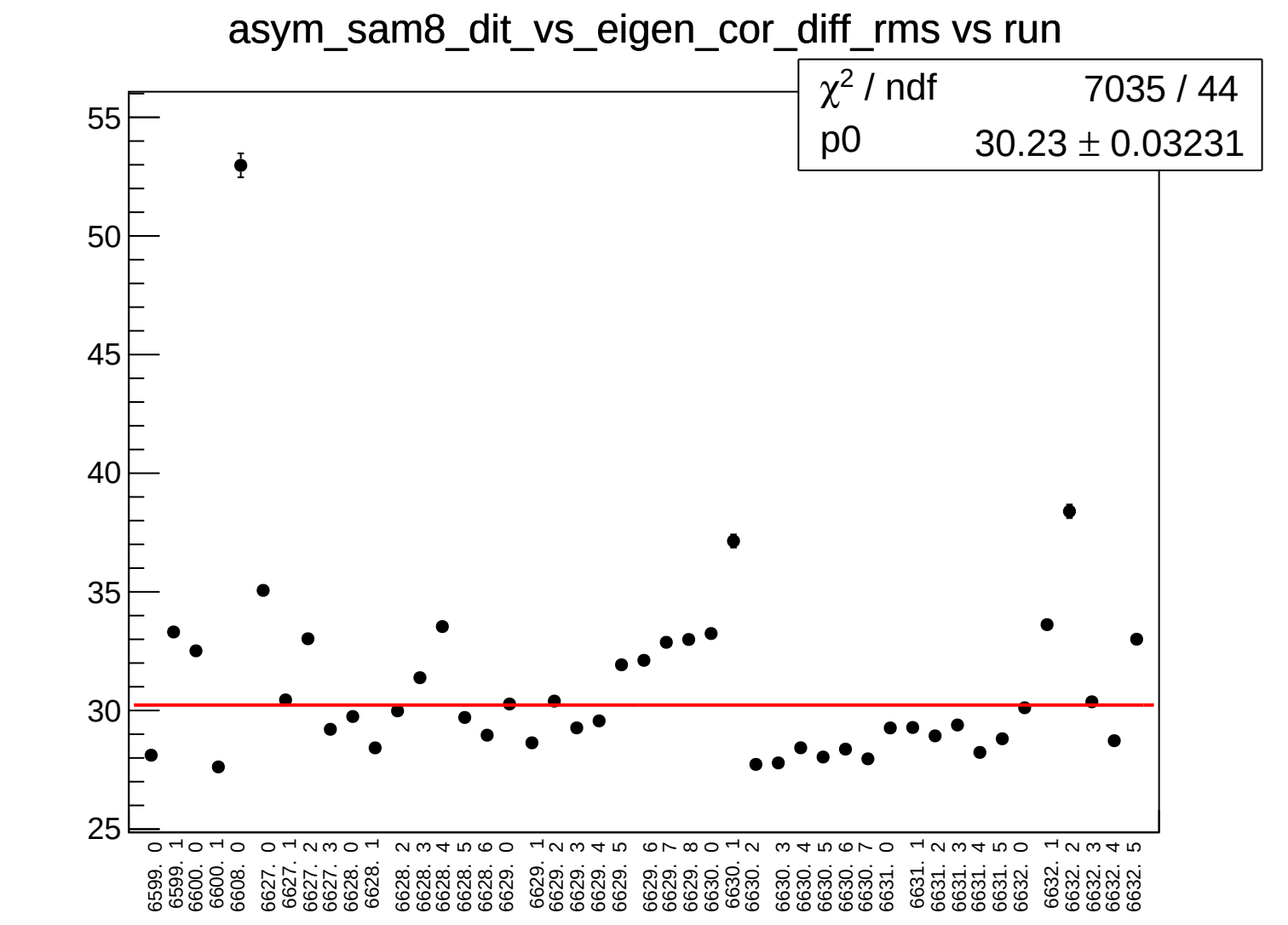

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 52.36 / 44
p0 −0.09914 ± 0.04569
pull
Entries 45
Mean 90.21
Std Dev 0


pull1D
Entries 45
Mean 0.011
Std Dev 1.079


asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 7035 / 44
p0 30.23 ± 0.03231
55
50
45
40
35
30
25
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.36 / 44
p0 −0.09914 ± 0.04569
pull
Entries 45
Mean 90.21
Std Dev 0


pull1D
Entries 45
Mean 0.011
Std Dev 1.079


asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7035 / 44
p0 30.23 ± 0.03231
55
50
45
40
35
30
25
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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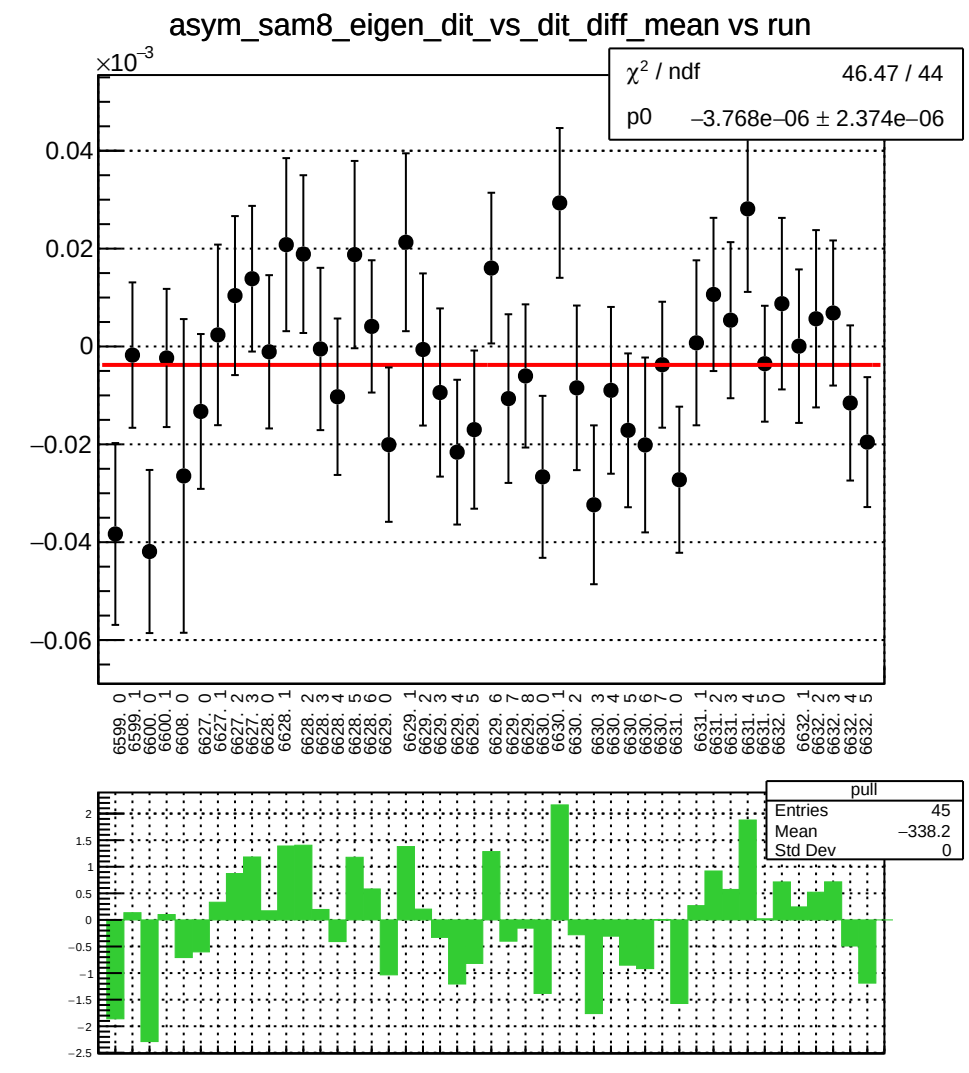
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 46.47 / 44
p0 −3.768e−06 ± 2.374e−06
0.04
0.02
0
−0.02
−0.04
−0.06
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
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6628. 5
6628. 6
6629. 0
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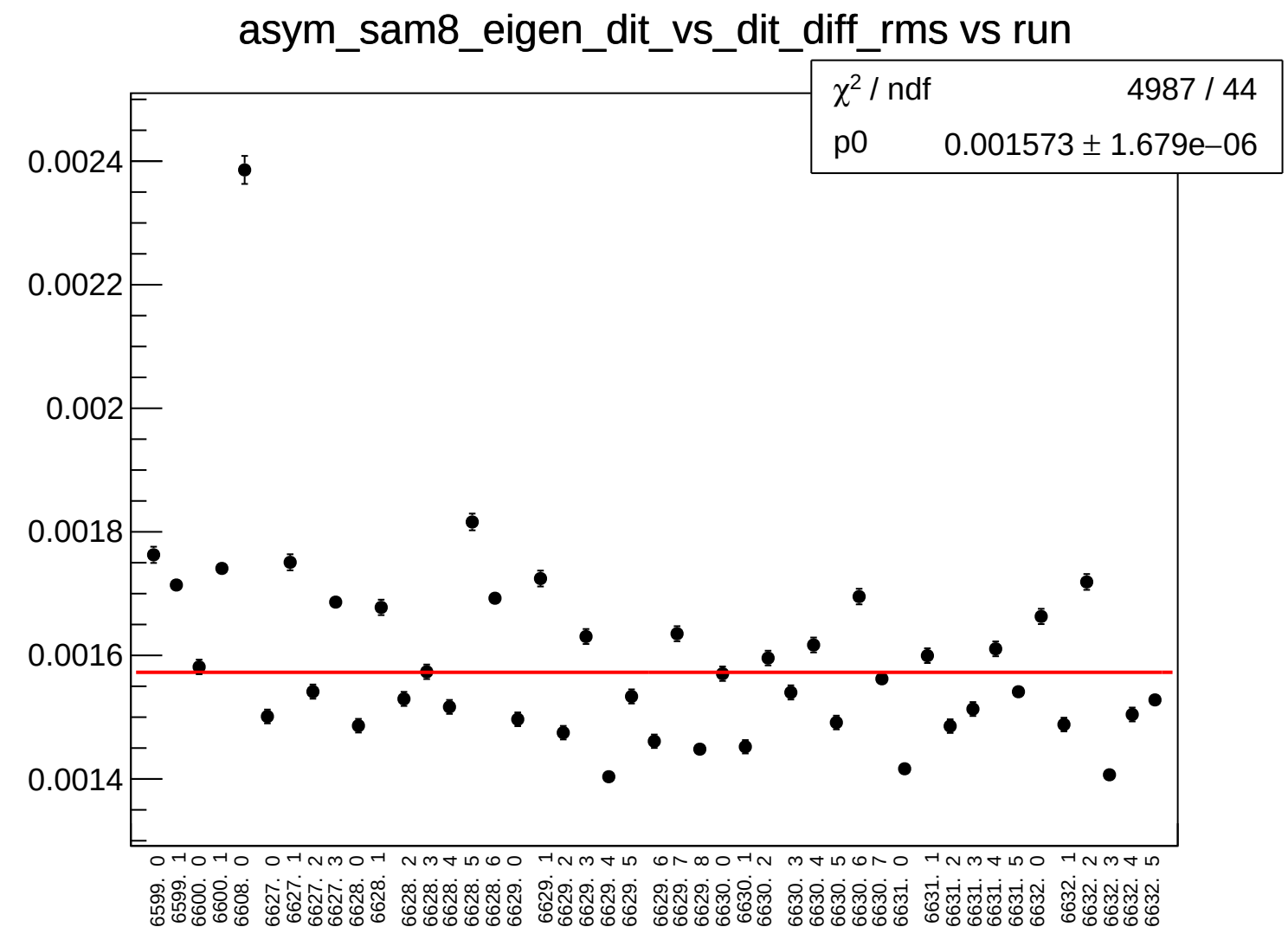
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −338.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.002456
Std Dev 1.016
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4987 / 44
p0 0.001573 ± 1.679e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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6628. 6
6629. 0
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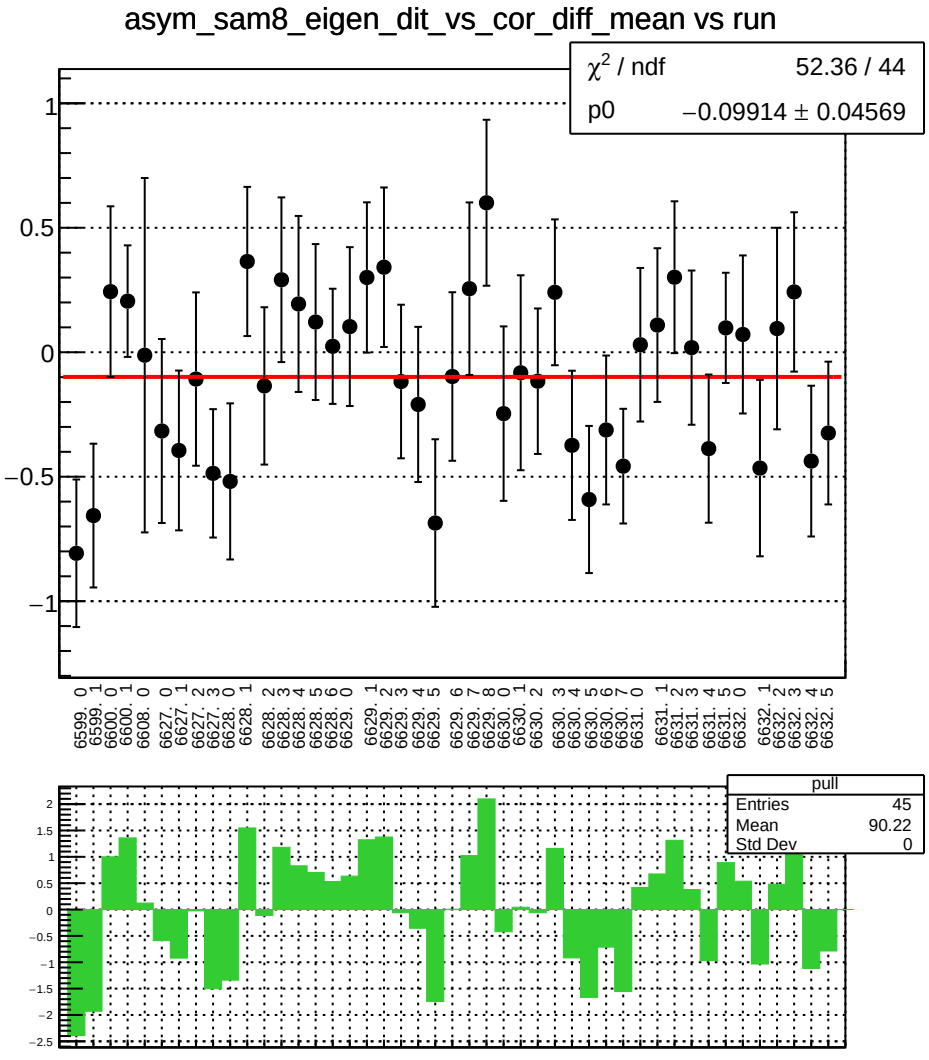
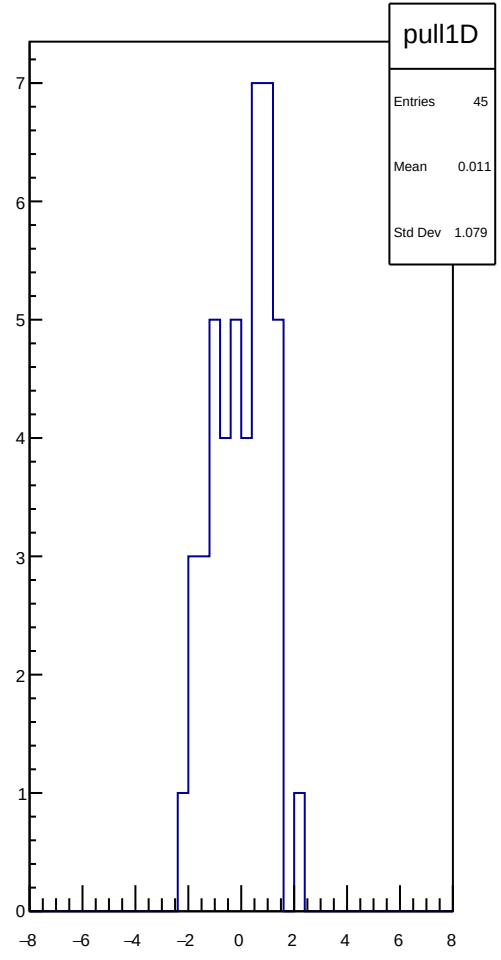
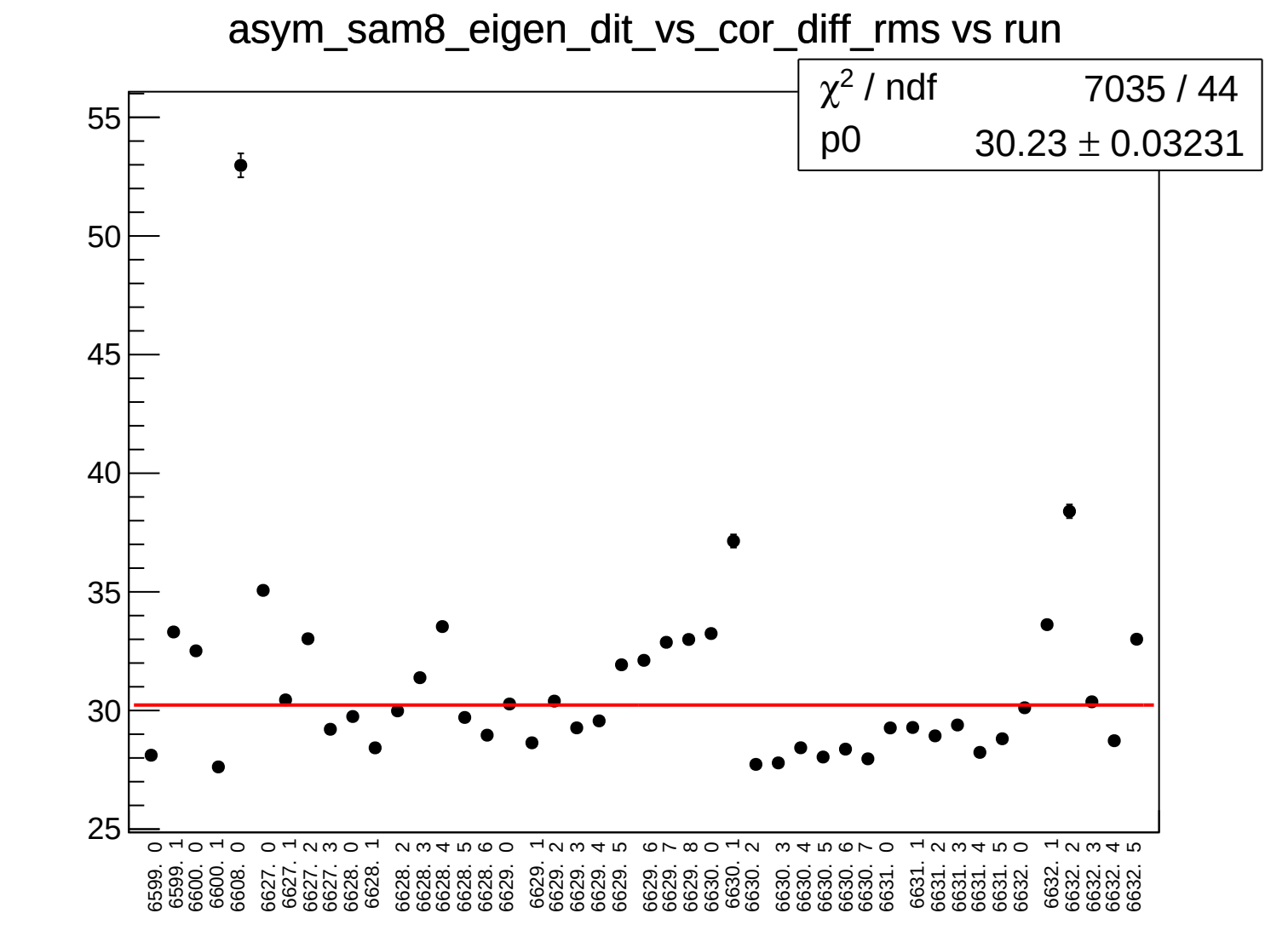
6632. 5


asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 52.36 / 44
p0 −0.09914 ± 0.04569
pull
Entries 45
Mean 90.22
Std Dev 0


pull1D
Entries 45
Mean 0.011
Std Dev 1.079


asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7035 / 44
p0 30.23 ± 0.03231
55
50
45
40
35
30
25
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 6
6629. 0
6629. 1
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6630. 1
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6630. 6
6630. 7
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6631. 1
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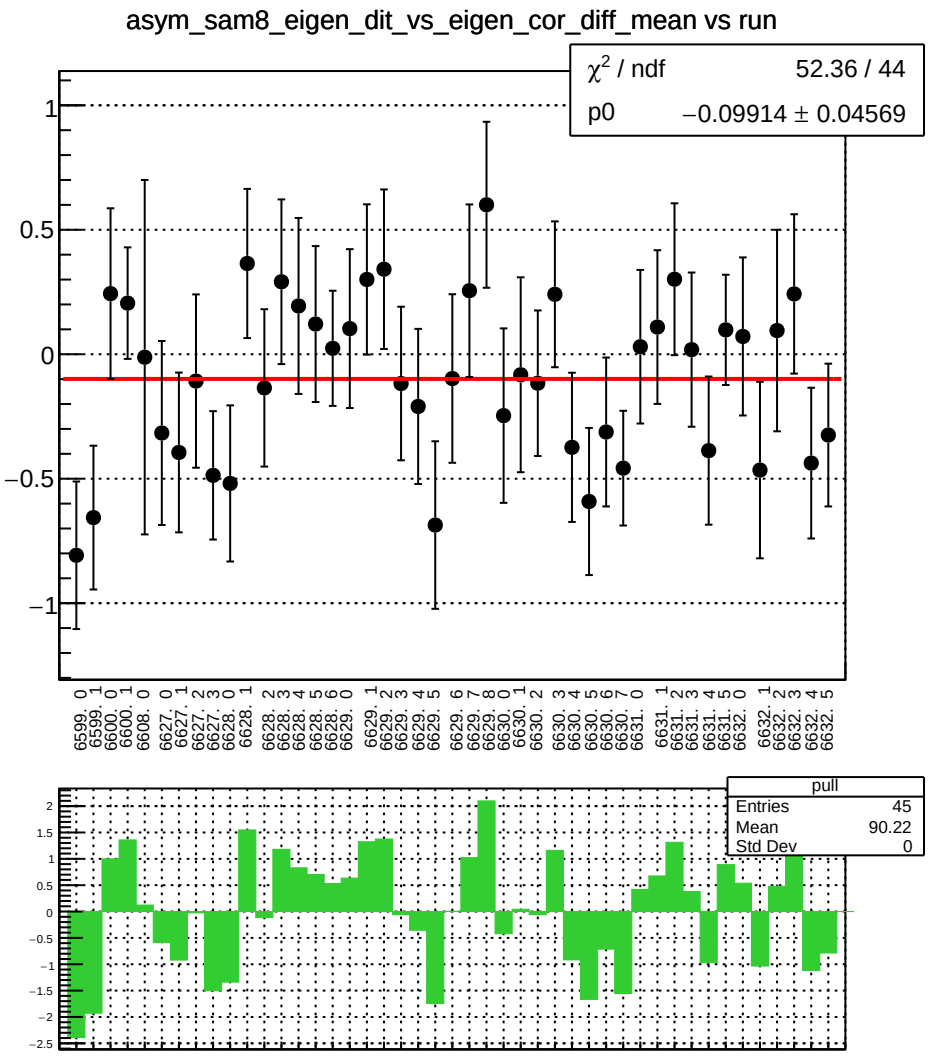
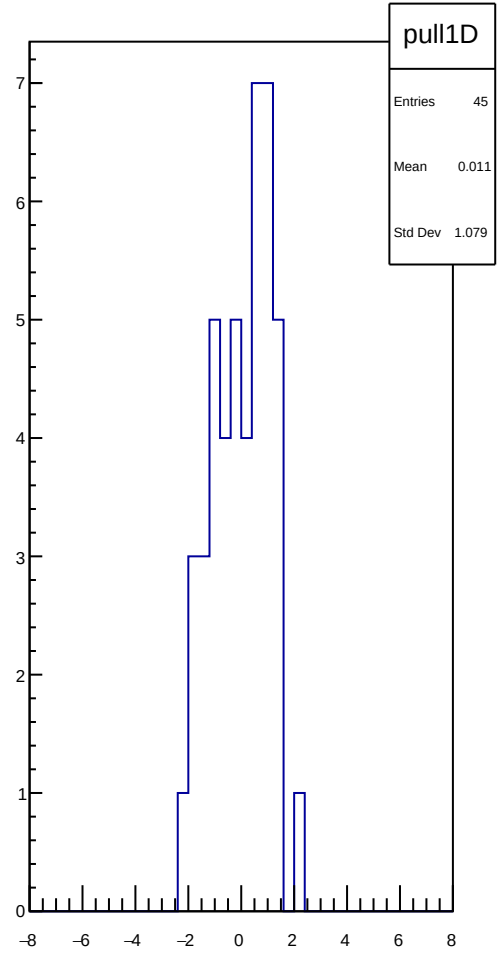
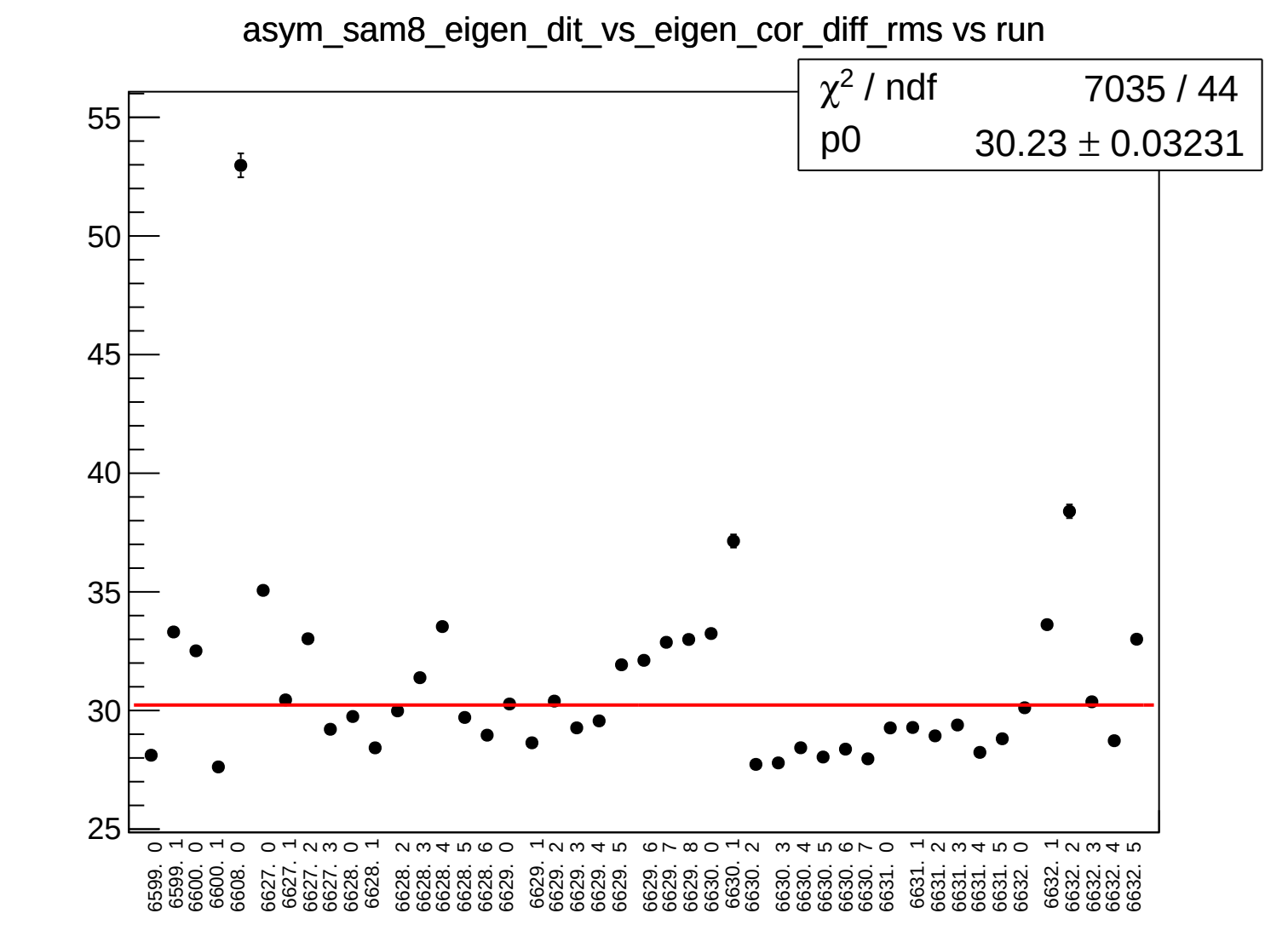
6632. 5


asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.36 / 44
p0 −0.09914 ± 0.04569
pull
Entries 45
Mean 90.22
Std Dev 0


pull1D
Entries 45
Mean 0.011
Std Dev 1.079


asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7035 / 44
p0 30.23 ± 0.03231
55
50
45
40
35
30
25
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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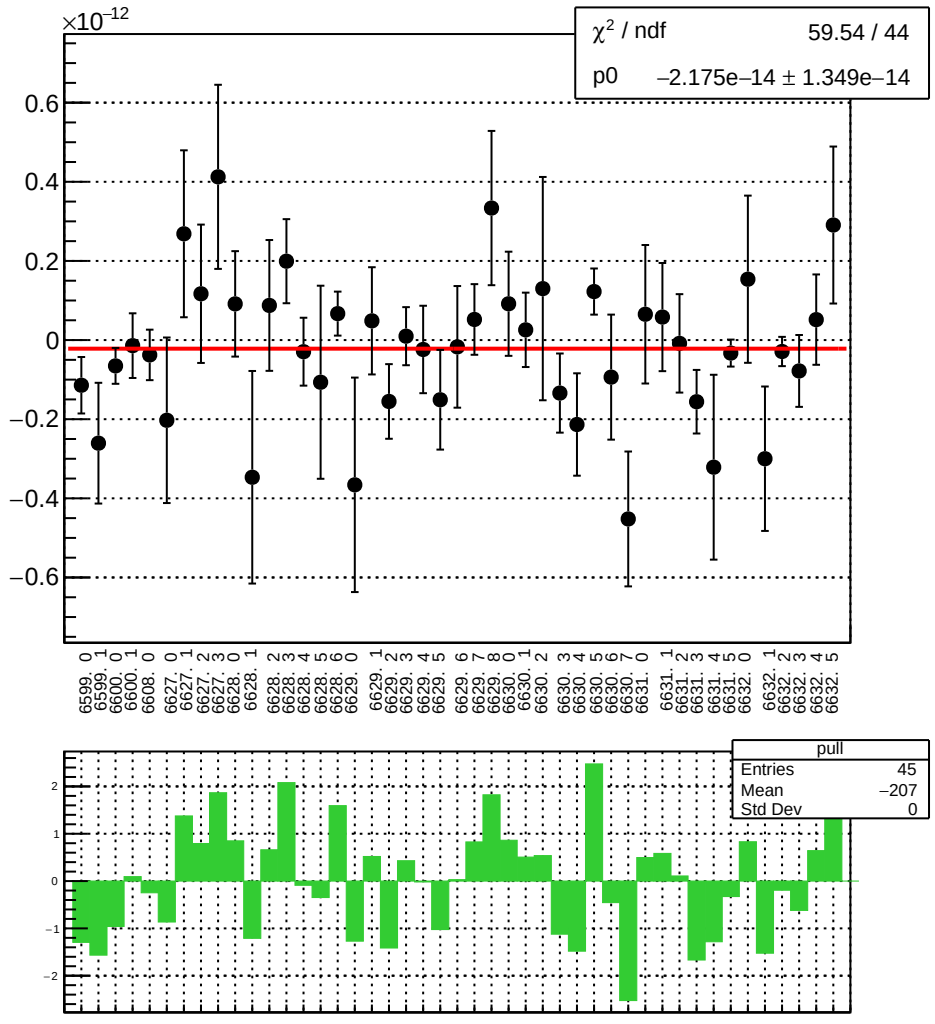
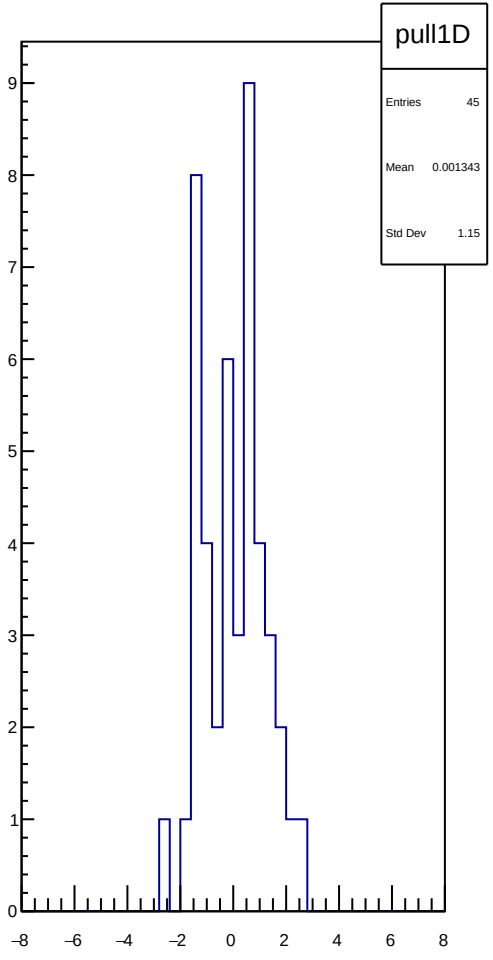
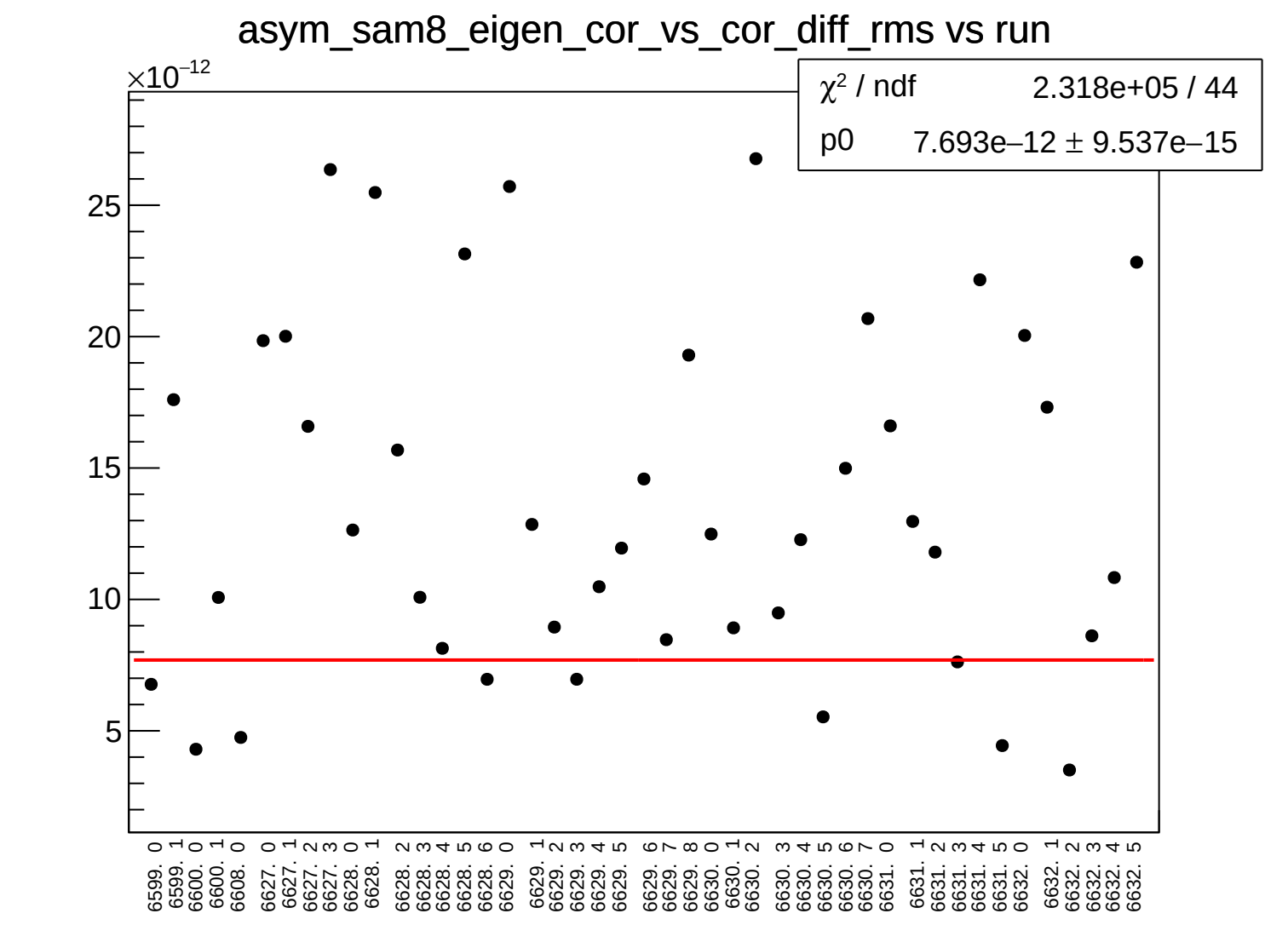
6632. 5


asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 59.54 / 44
p0 −2.175e−14 ± 1.349e−14
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −207
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.001343
Std Dev 1.15
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.318e+05 / 44
p0 7.693e−12 ± 9.537e−15
25
20
15
10
5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
6632. 0
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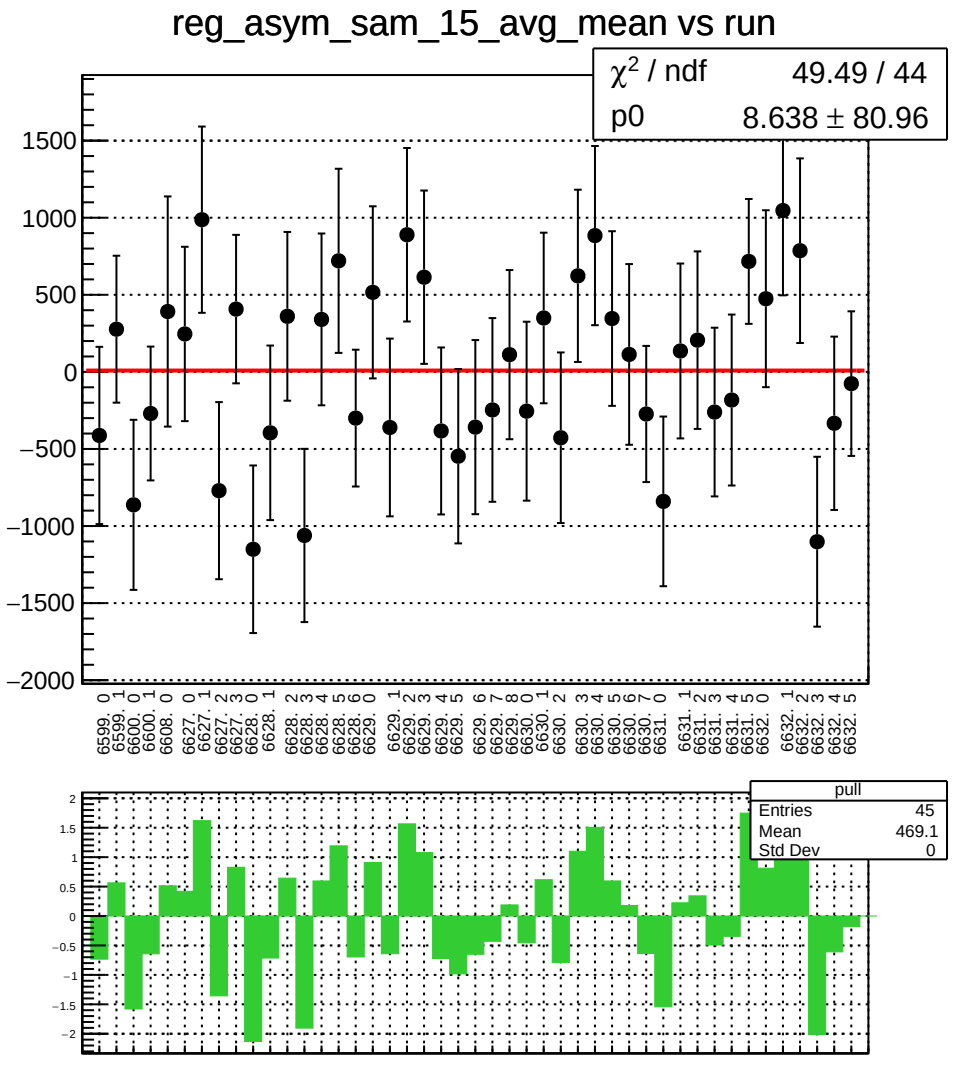
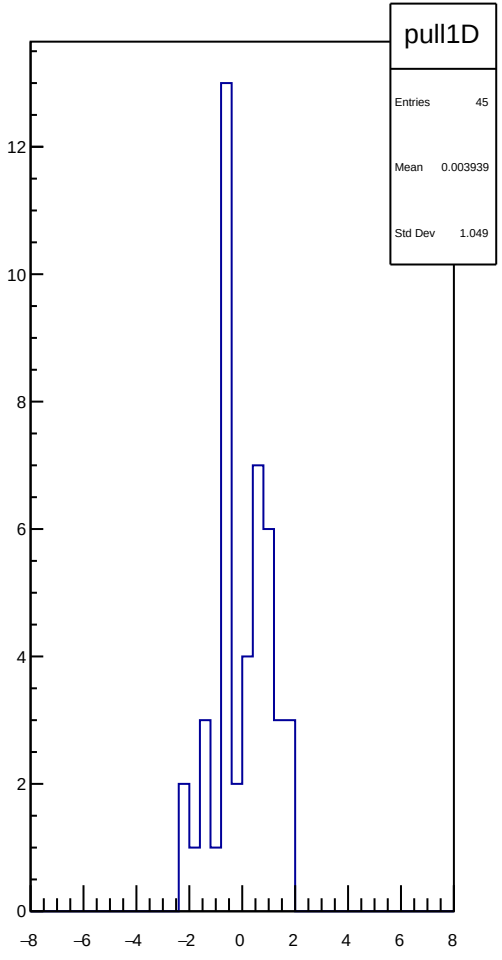
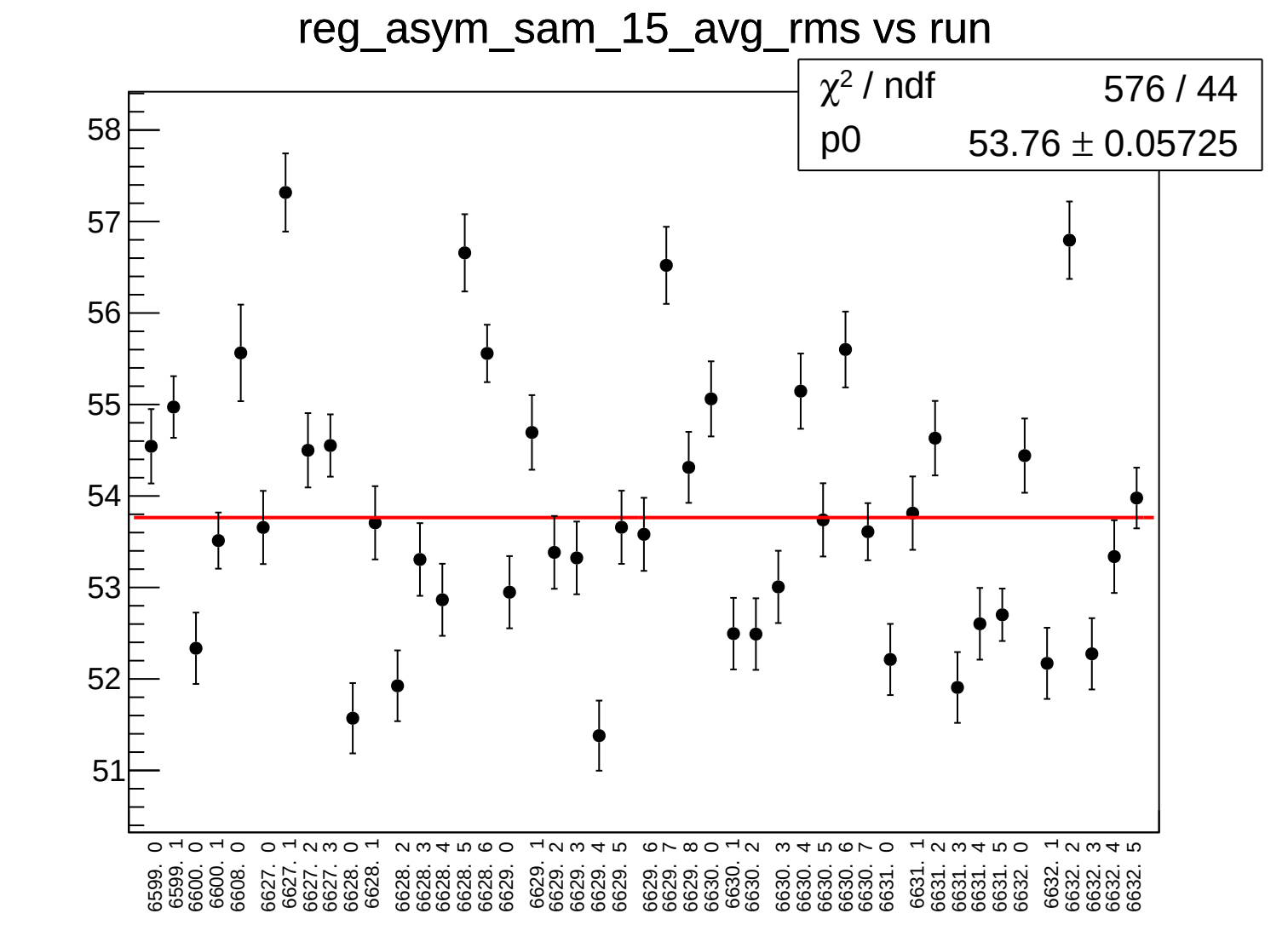
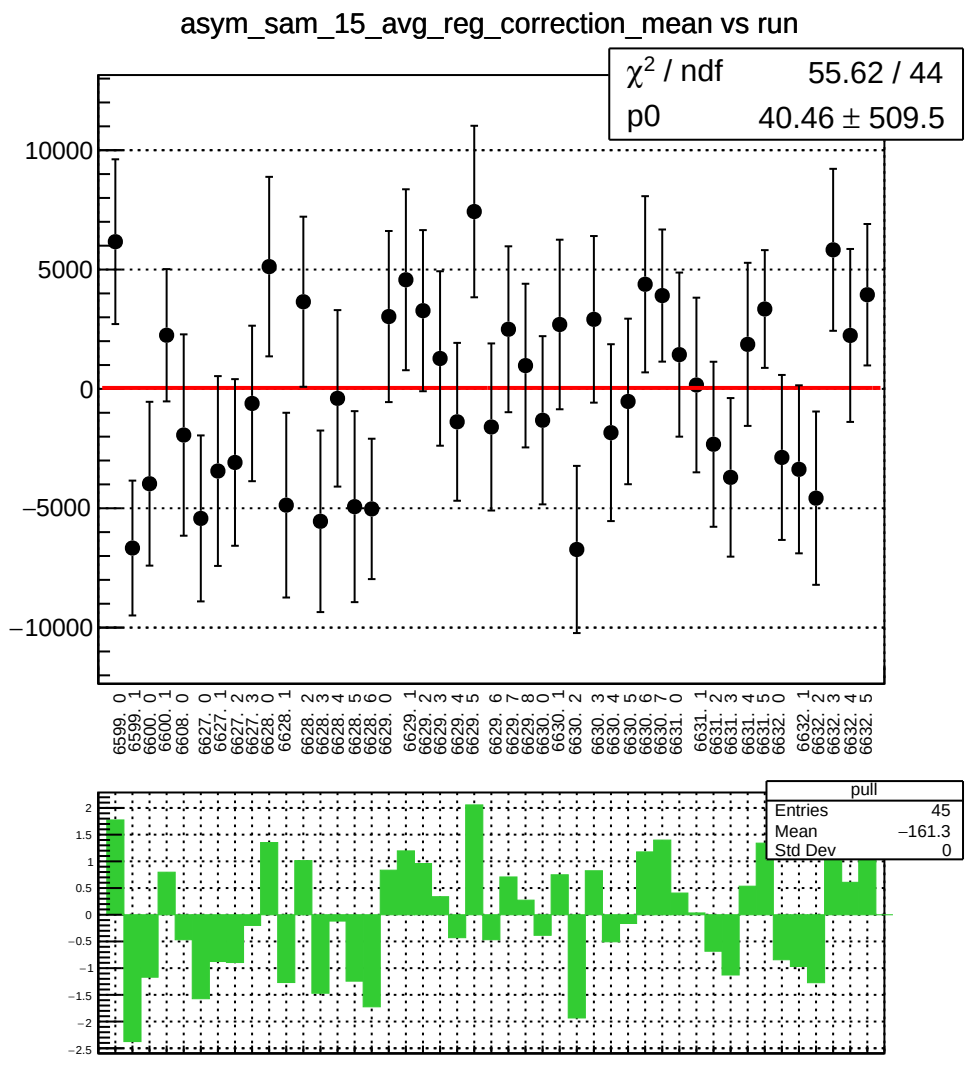
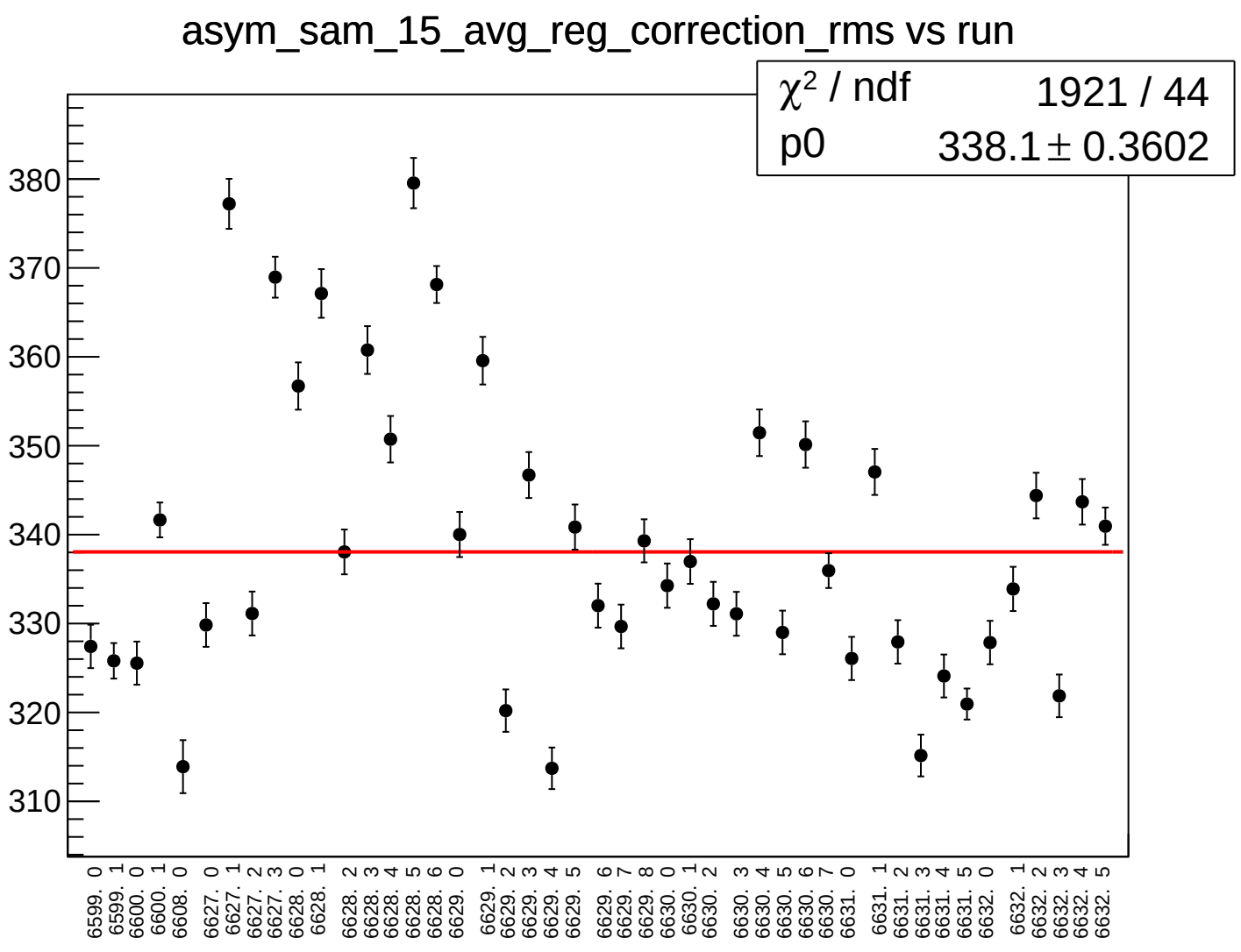
6632. 2
6632. 3
6632. 4
6632. 5


reg_asym_sam_15_avg_mean vs run
χ² / ndf 49.49 / 44
p0 8.638 ± 80.96
1500
1000
500
0
−500
−1000
−1500
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 469.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.003939
Std Dev 1.049
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_15_avg_rms vs run
χ² / ndf 576 / 44
p0 53.76 ± 0.05725
58
57
56
55
54
53
52
51
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 55.62 / 44
p0 40.46 ± 509.5
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −161.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.01685
Std Dev 1.112
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 1921 / 44
p0 338.1 ± 0.3602
380
370
360
350
340
330
320
310
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 4
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6629. 6
6629. 7
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6630. 0
6630. 1
6630. 2
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6631. 0
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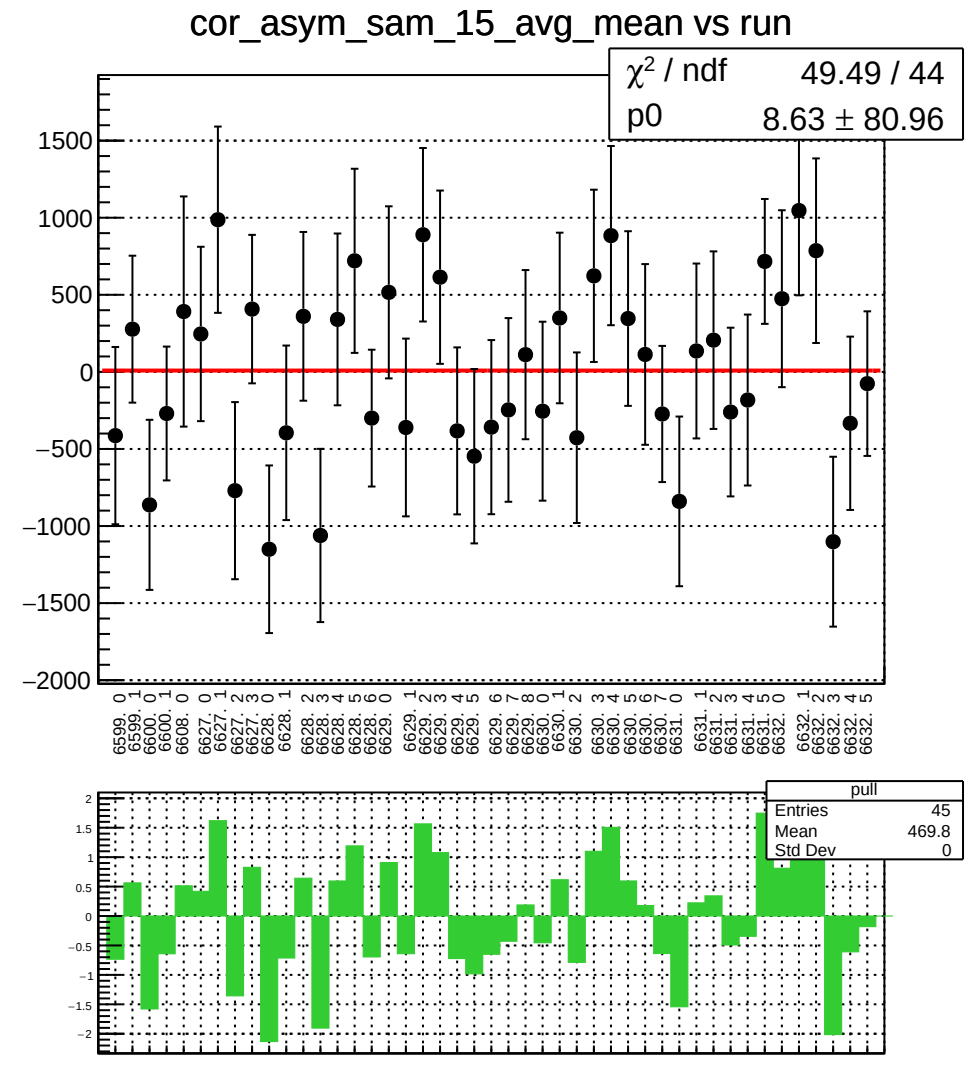
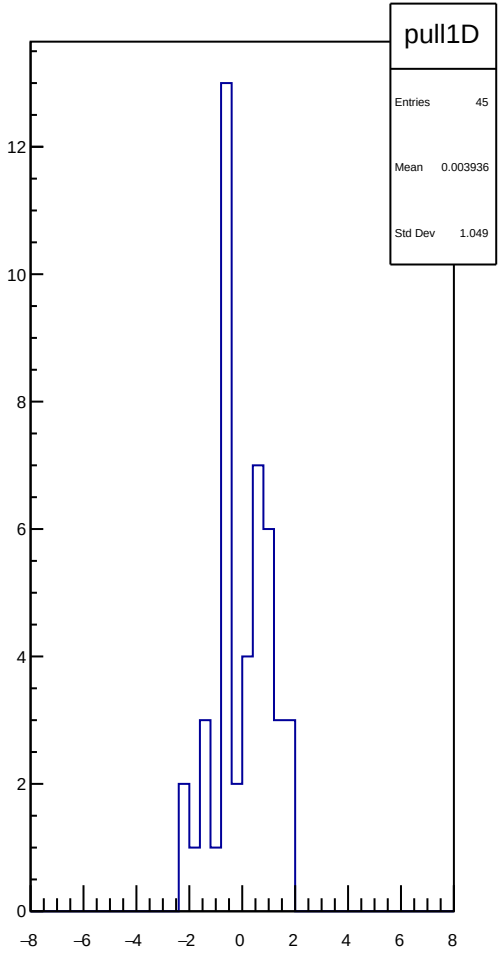
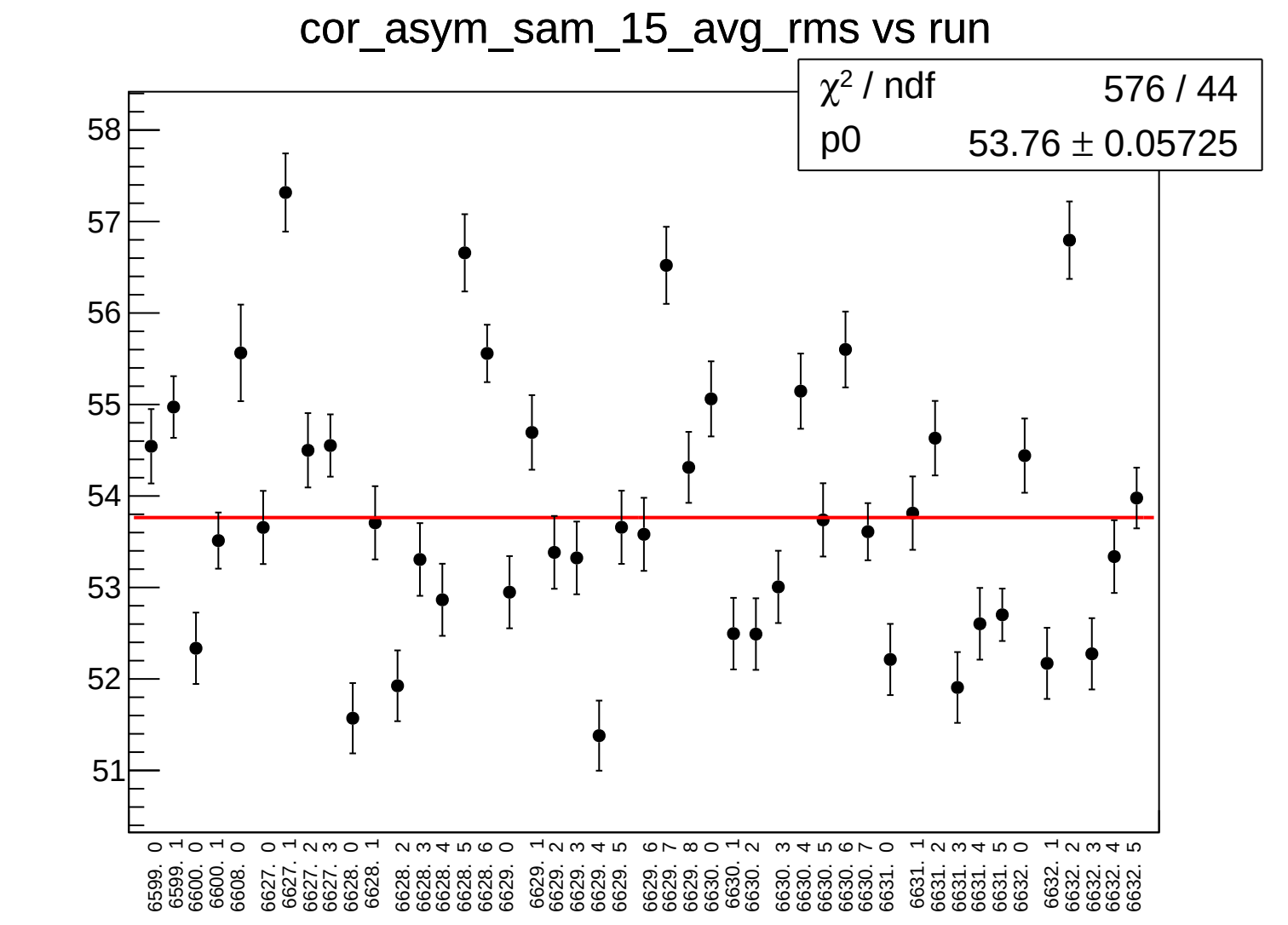
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_sam_15_avg_mean vs run
χ² / ndf 49.49 / 44
p0 8.63 ± 80.96
1500
1000
500
0
−500
−1000
−1500
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 469.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.003936
Std Dev 1.049
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_15_avg_rms vs run
χ² / ndf 576 / 44
p0 53.76 ± 0.05725
58
57
56
55
54
53
52
51
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 2
6627. 3
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6628. 6
6629. 0
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6629. 2
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6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
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6630. 6
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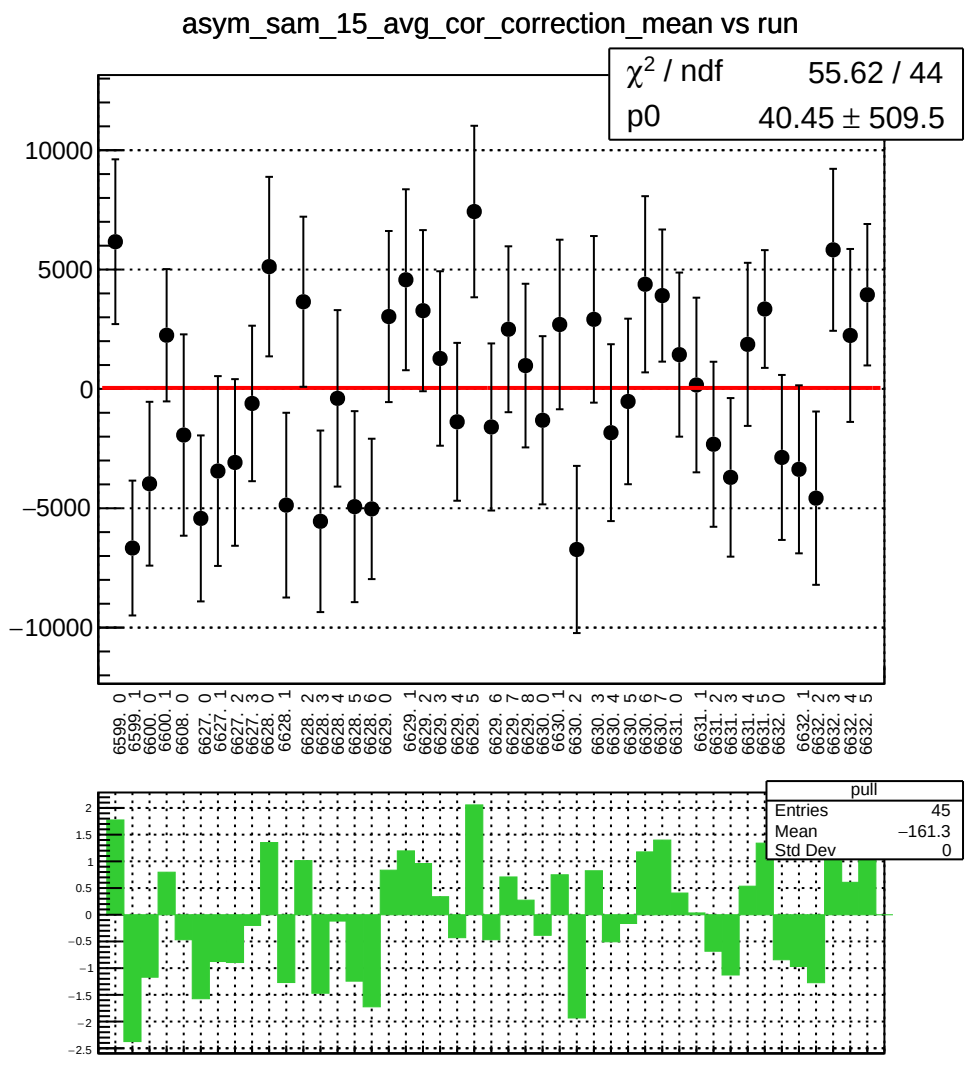
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 55.62 / 44
p0 40.45 ± 509.5
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
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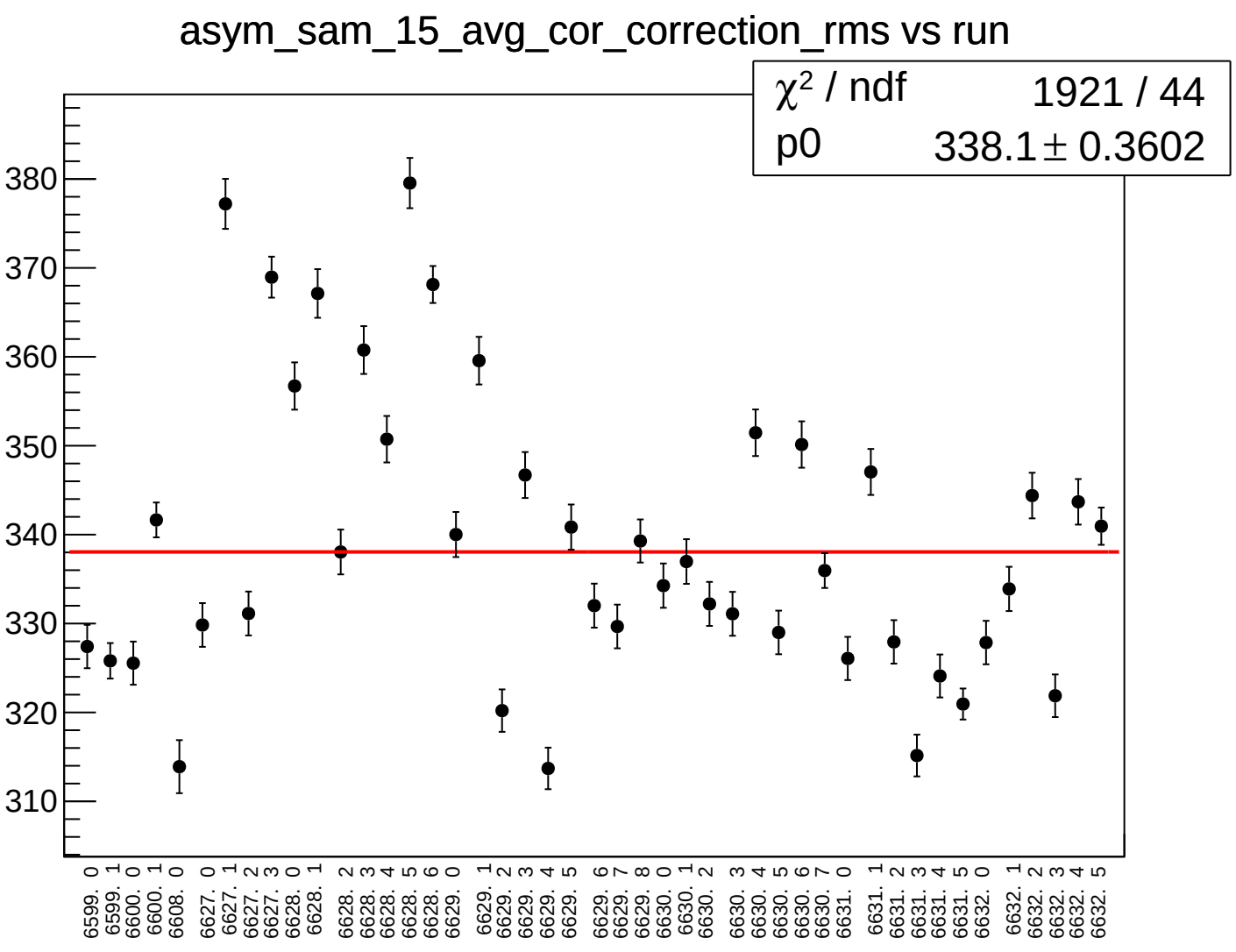
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −161.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.01685
Std Dev 1.112
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 1921 / 44
p0 338.1 ± 0.3602
380
370
360
350
340
330
320
310
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
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6628. 5
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6632. 2
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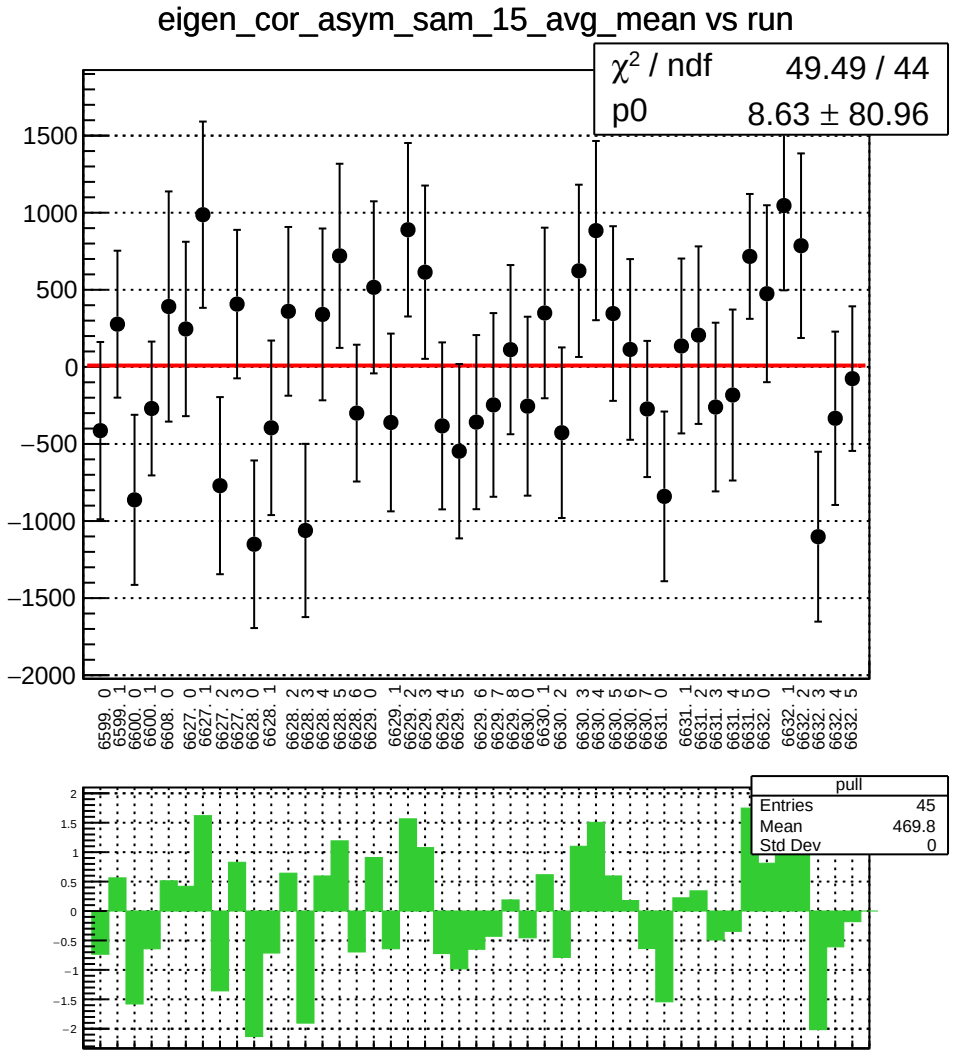
6632. 4
6632. 5


eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 49.49 / 44
p0 8.63 ± 80.96
1500
1000
500
0
−500
−1000
−1500
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 2
6627. 3
6628. 0
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6628. 3
6628. 4
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6629. 2
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6629. 4
6629. 5
6629. 6
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6631. 2
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6631. 5
6632. 0
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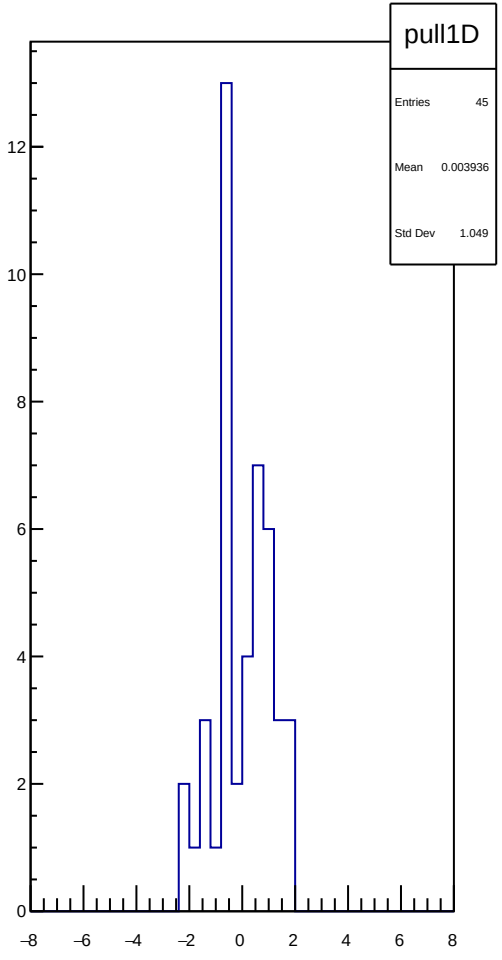
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 469.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.003936
Std Dev 1.049
12
10
8
6
4
2
0
−8
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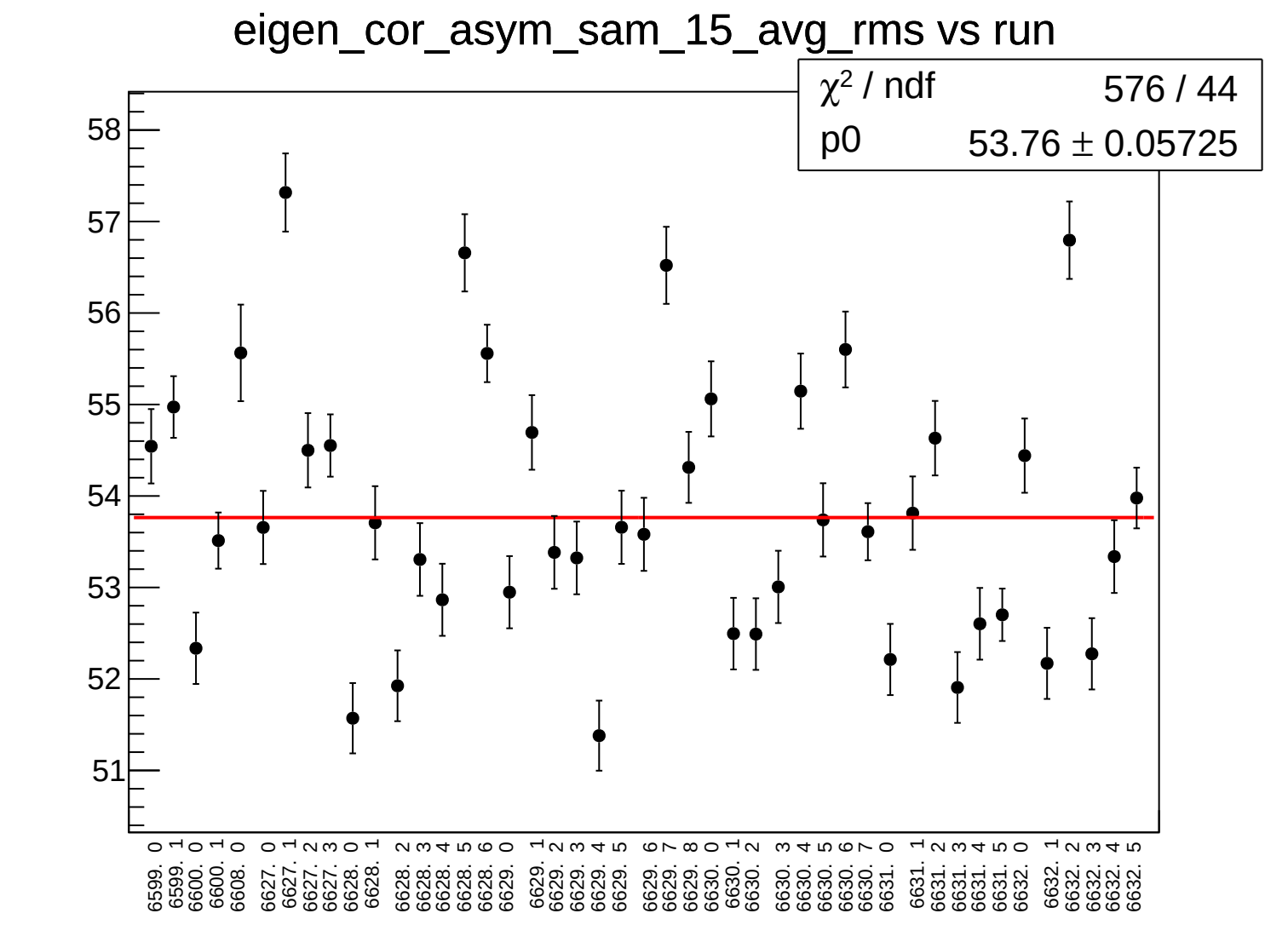
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 576 / 44
p0 53.76 ± 0.05725
58
57
56
55
54
53
52
51
6599. 0
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6600. 0
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6608. 0
6627. 0
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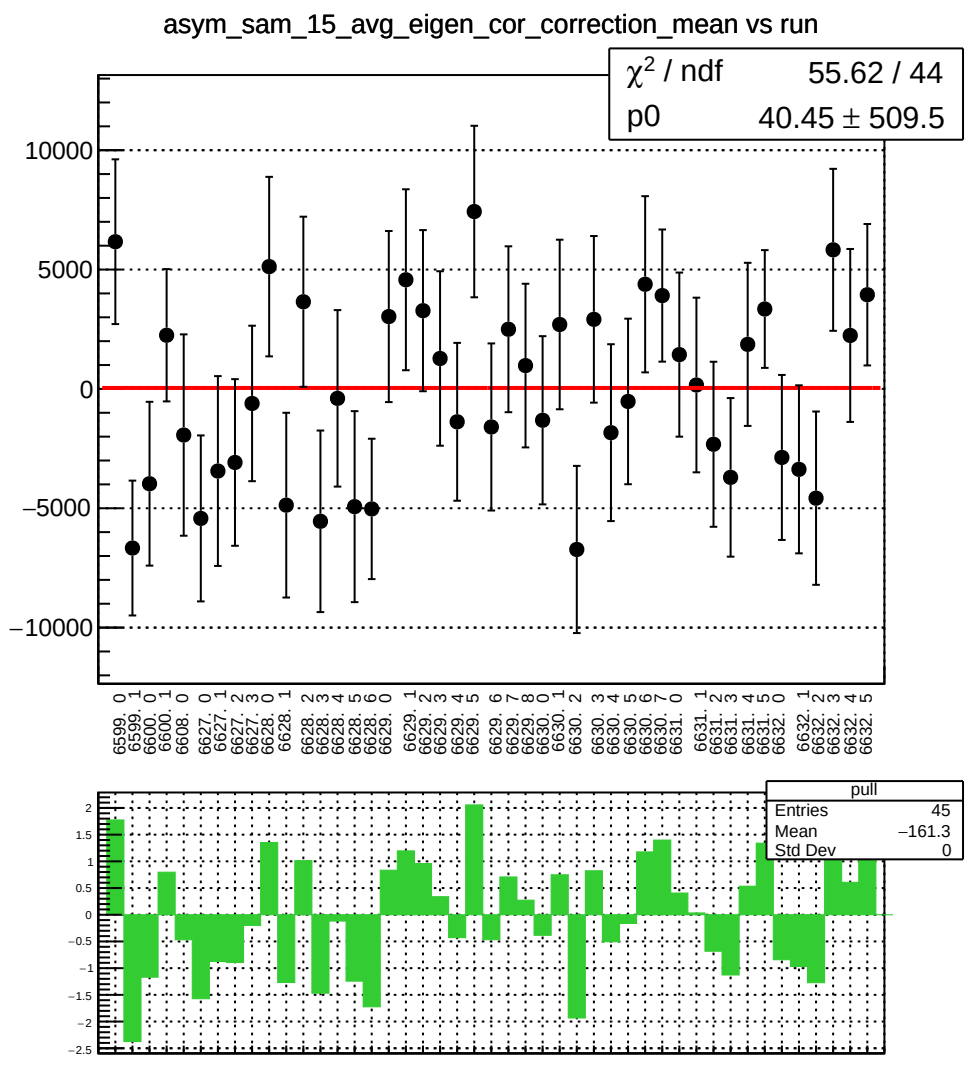
6632. 4
6632. 5


asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 55.62 / 44
p0 40.45 ± 509.5
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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6628. 4
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6630. 0
6630. 1
6630. 2
6630. 3
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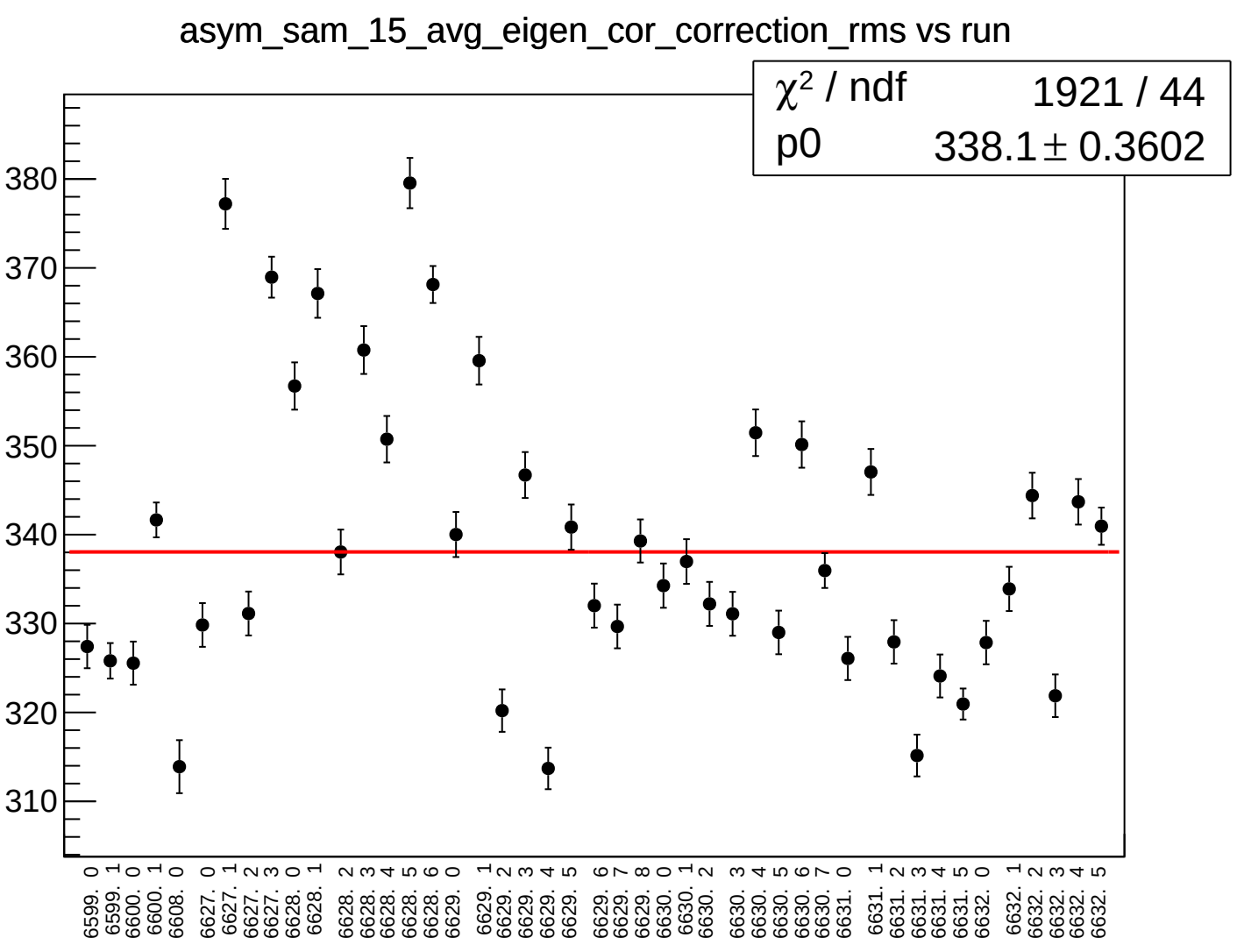
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −161.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.01685
Std Dev 1.112
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 1921 / 44
p0 338.1 ± 0.3602
380
370
360
350
340
330
320
310
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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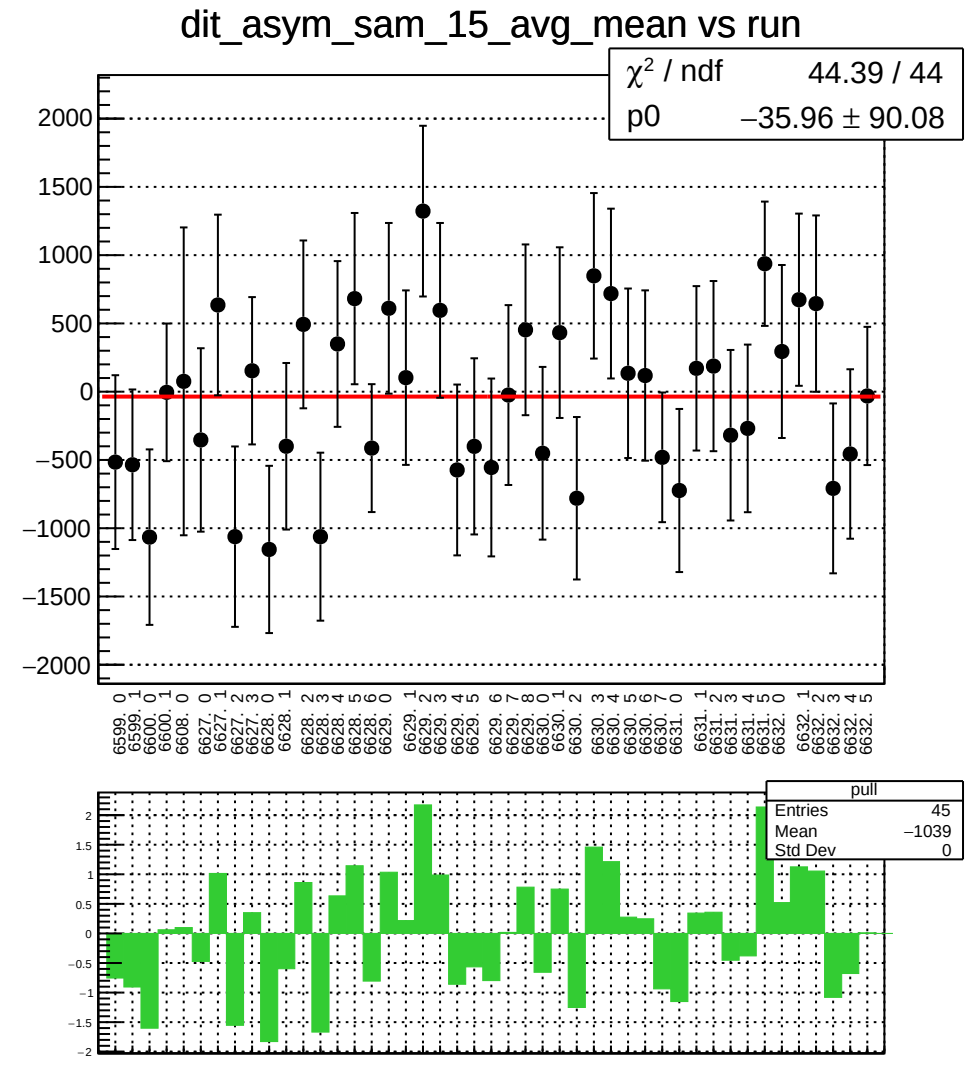
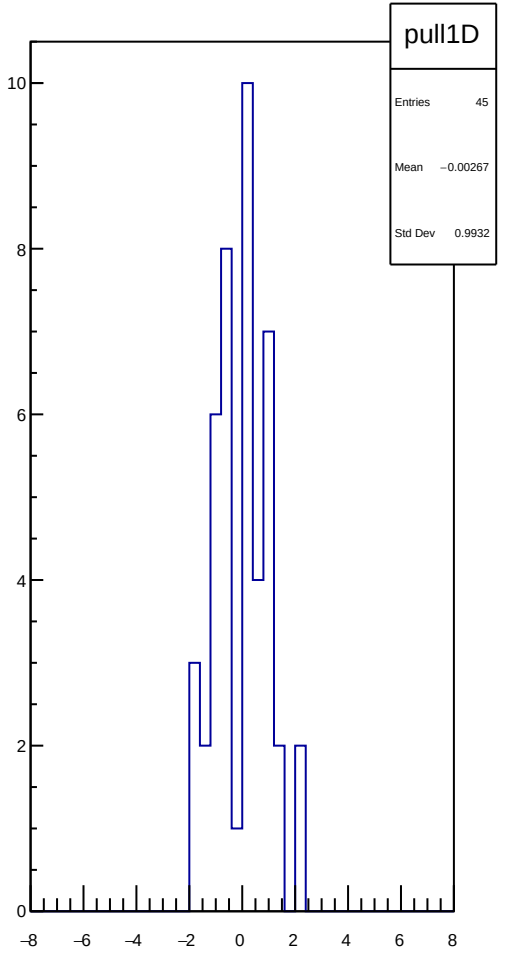
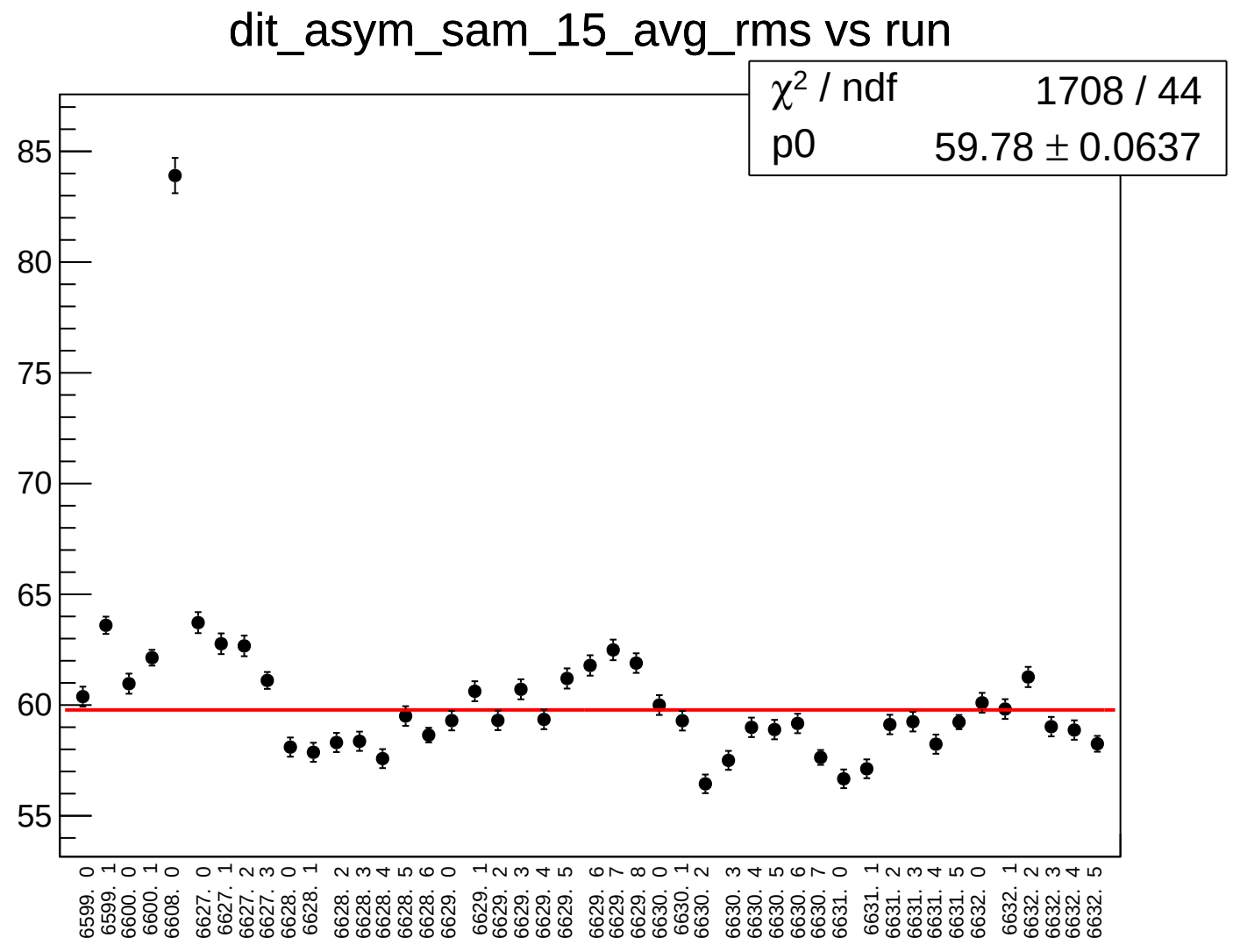
6632. 4
6632. 5


dit_asym_sam_15_avg_mean vs run
χ² / ndf 44.39 / 44
p0 −35.96 ± 90.08
pull
Entries 45
Mean −1039
Std Dev 0


pull1D
Entries 45
Mean −0.00267
Std Dev 0.9932


dit_asym_sam_15_avg_rms vs run
$\chi^2$ / ndf 1708 / 44
p0 59.78 ± 0.0637
85
80
75
70
65
60
55
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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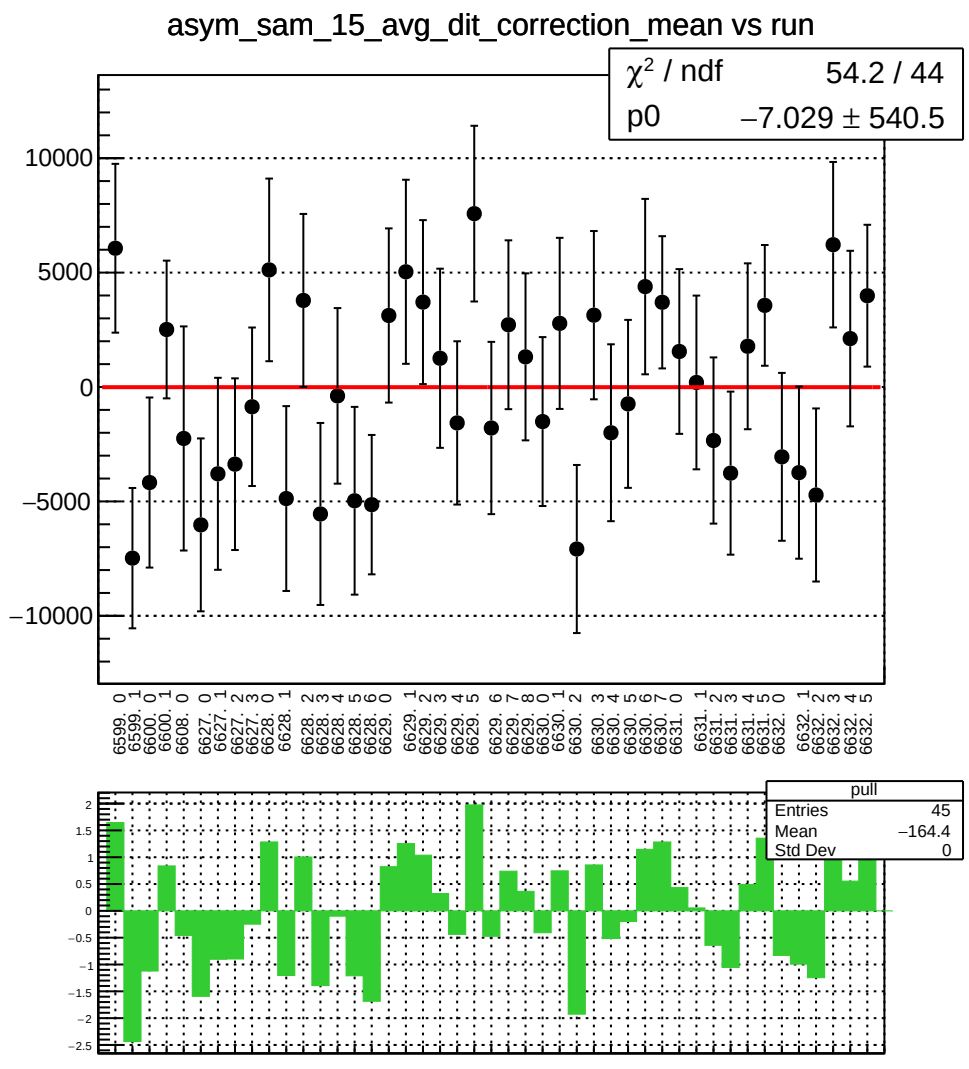
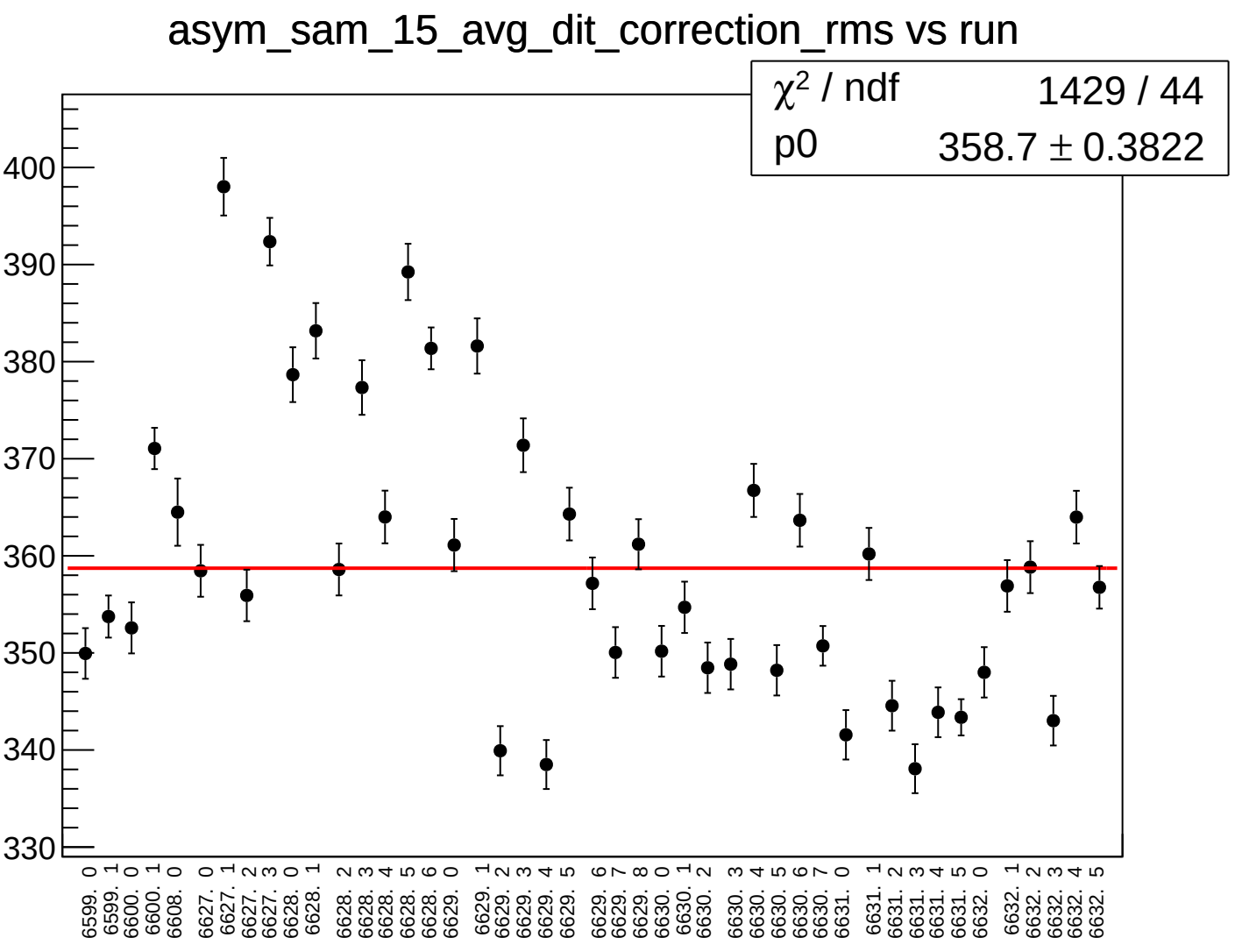
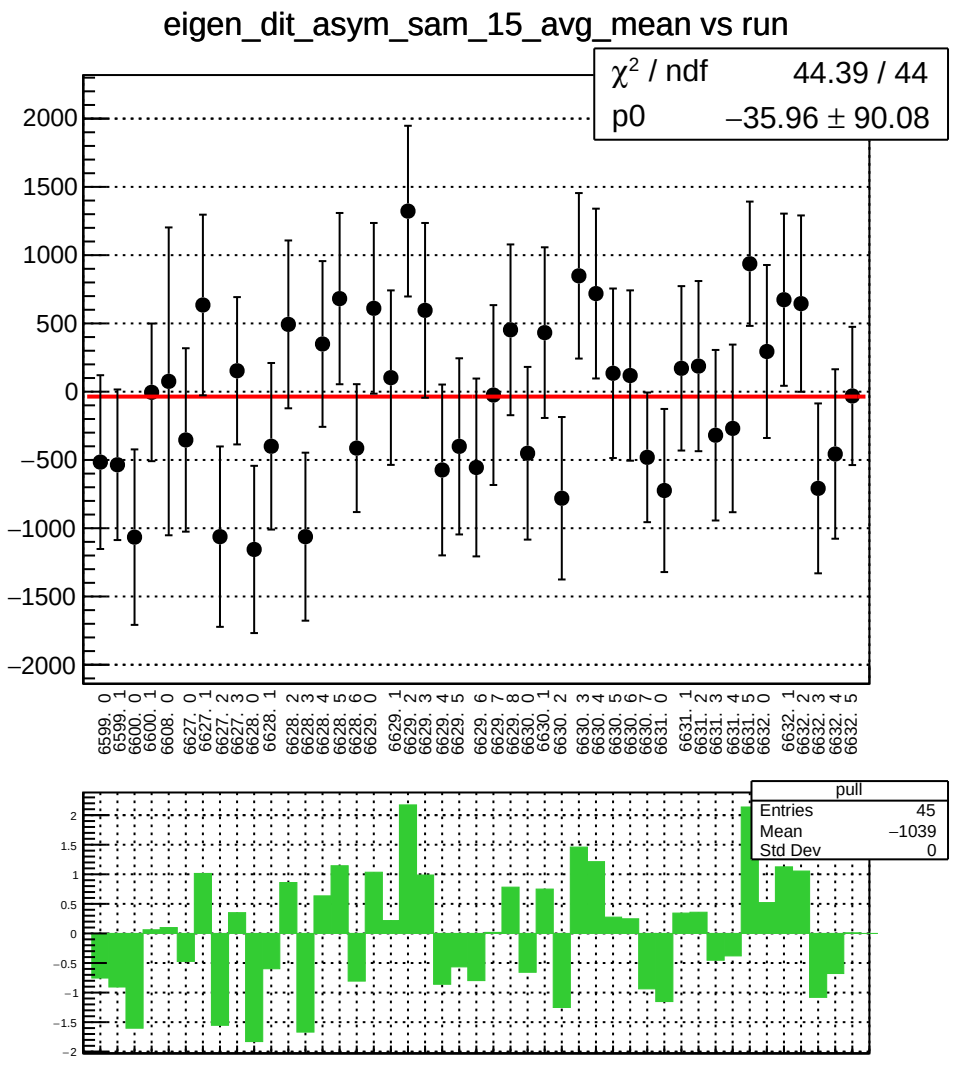
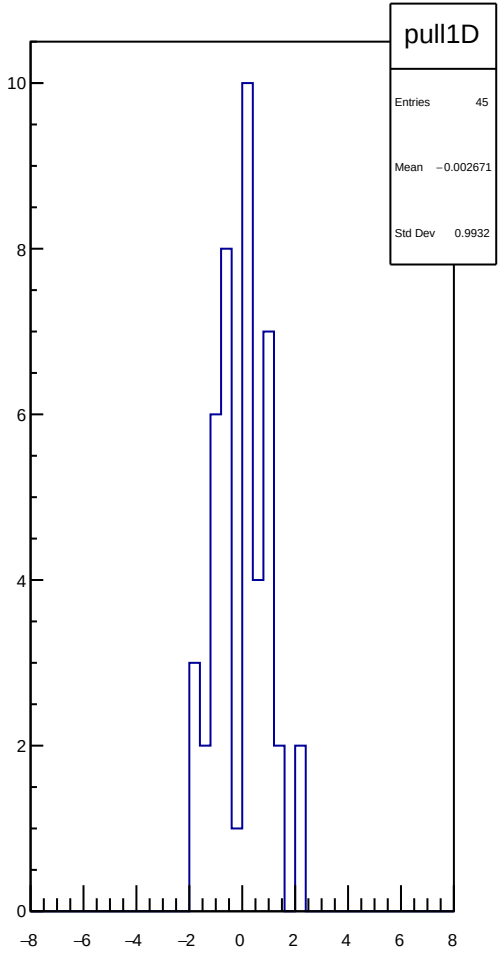
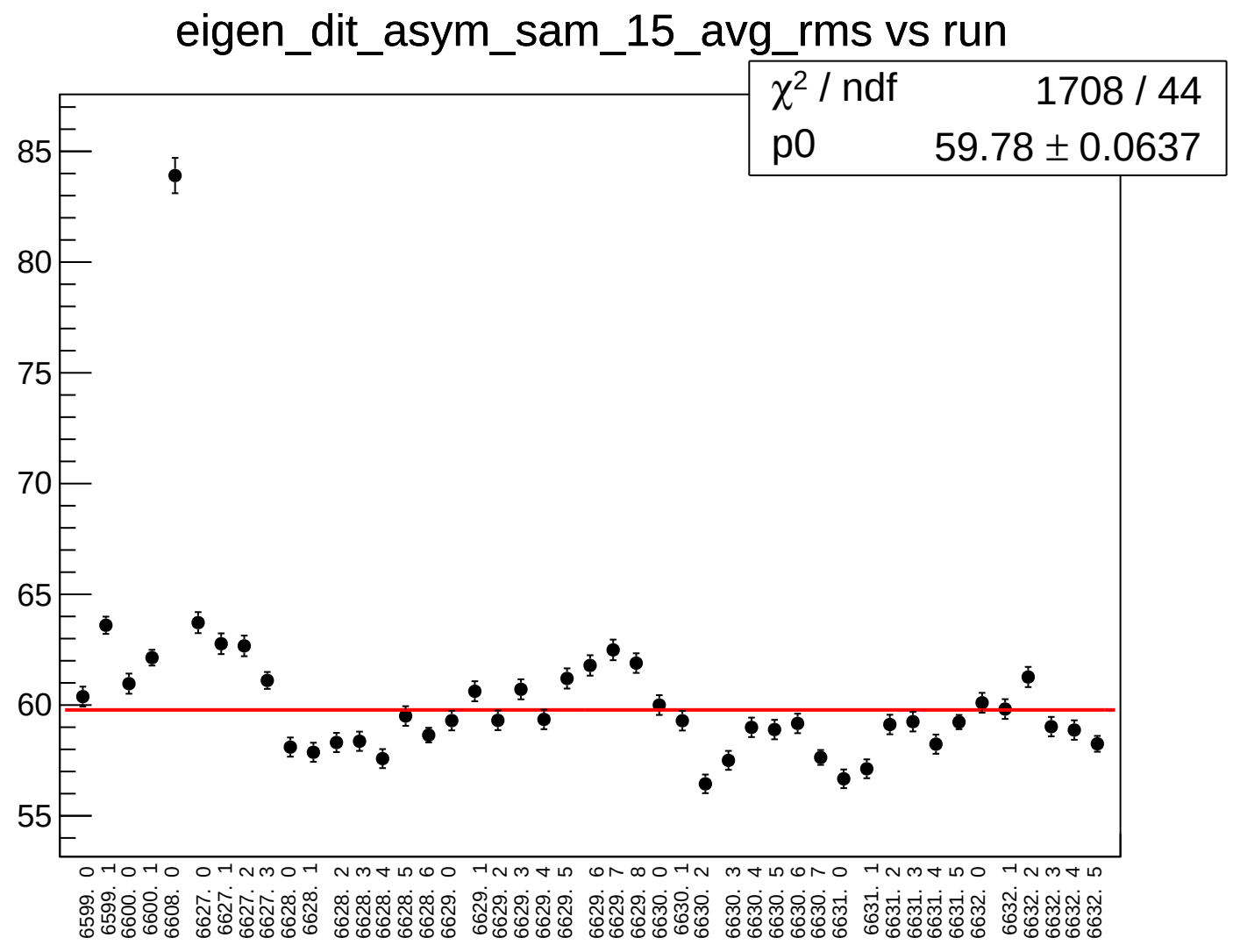
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

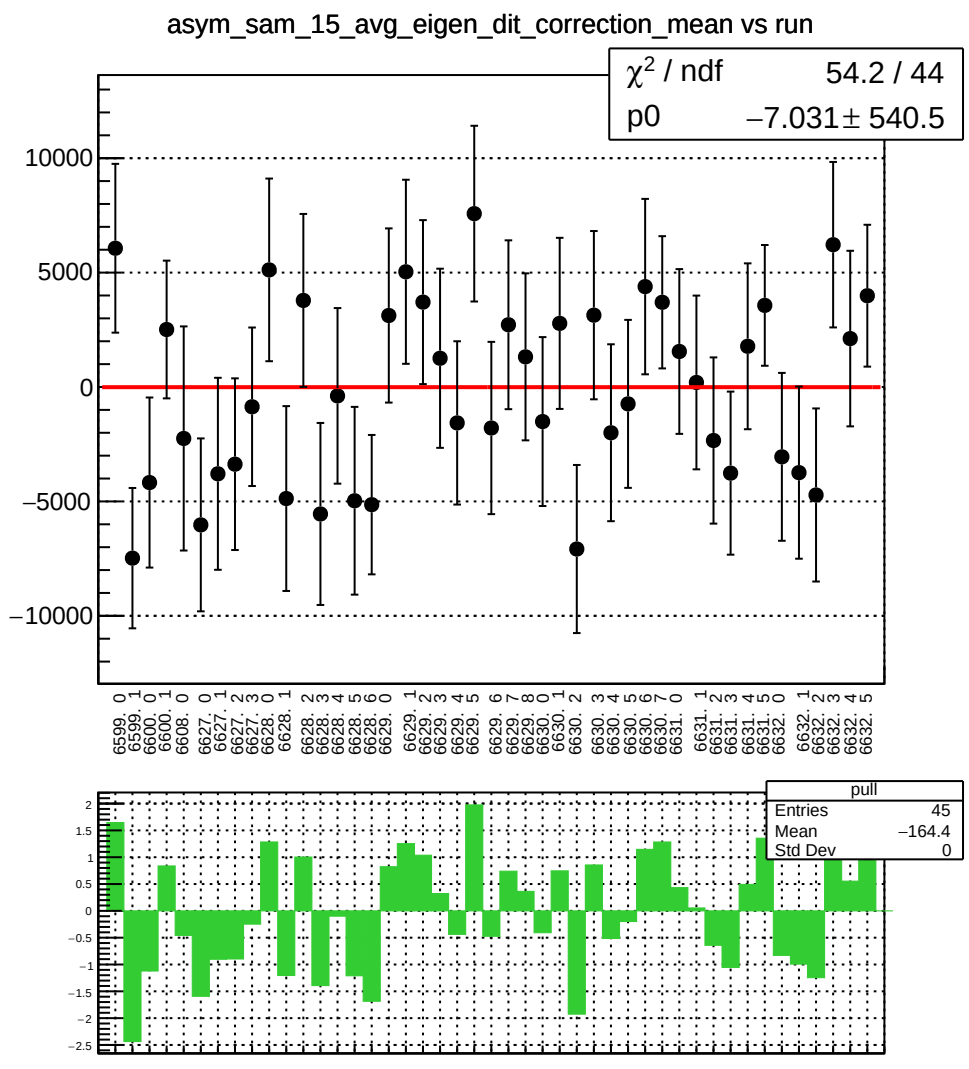

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 54.2 / 44
p0 −7.029 ± 540.5
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −164.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.01672
Std Dev 1.097
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

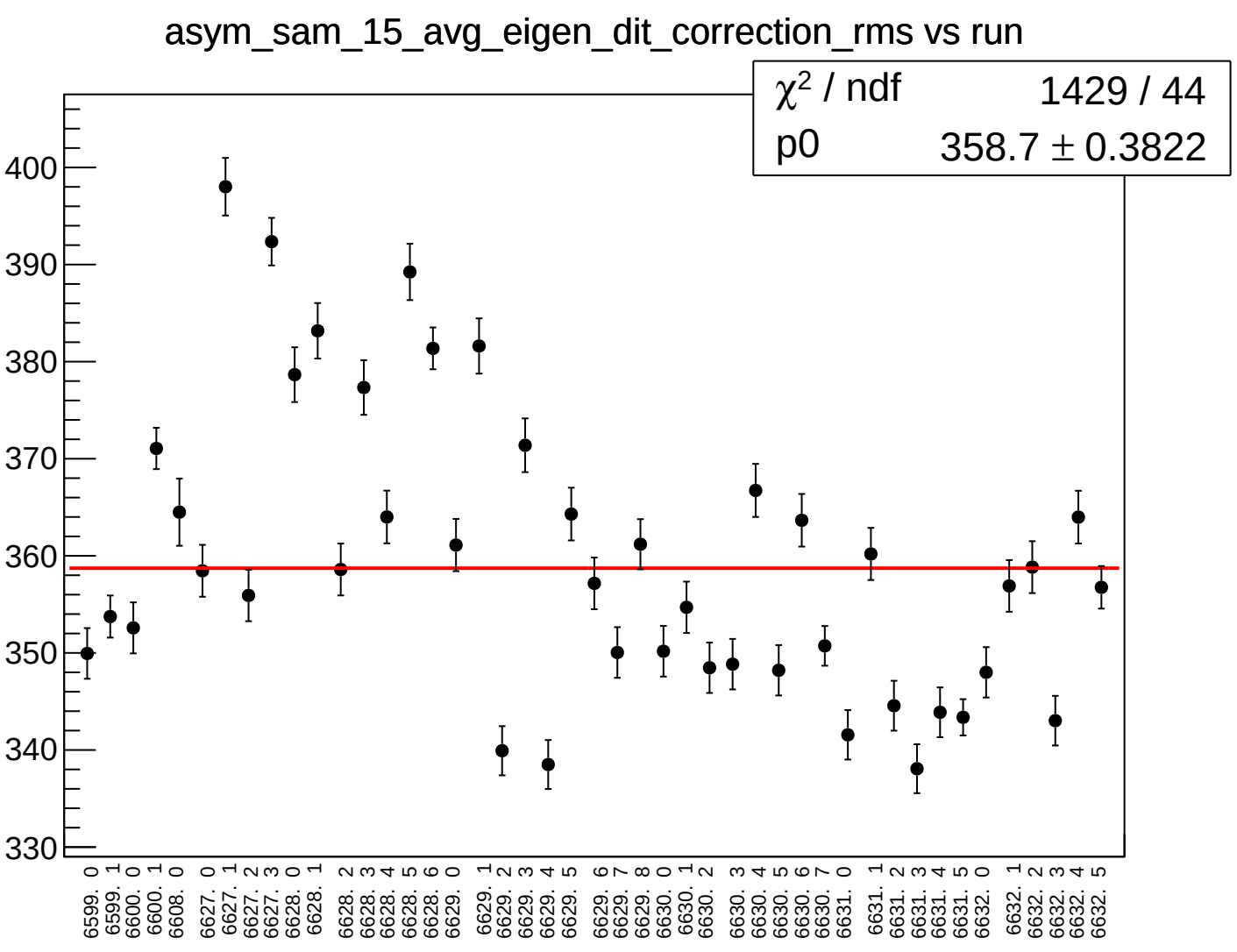

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 1429 / 44
p0 358.7 ± 0.3822
400
390
380
370
360
350
340
330
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

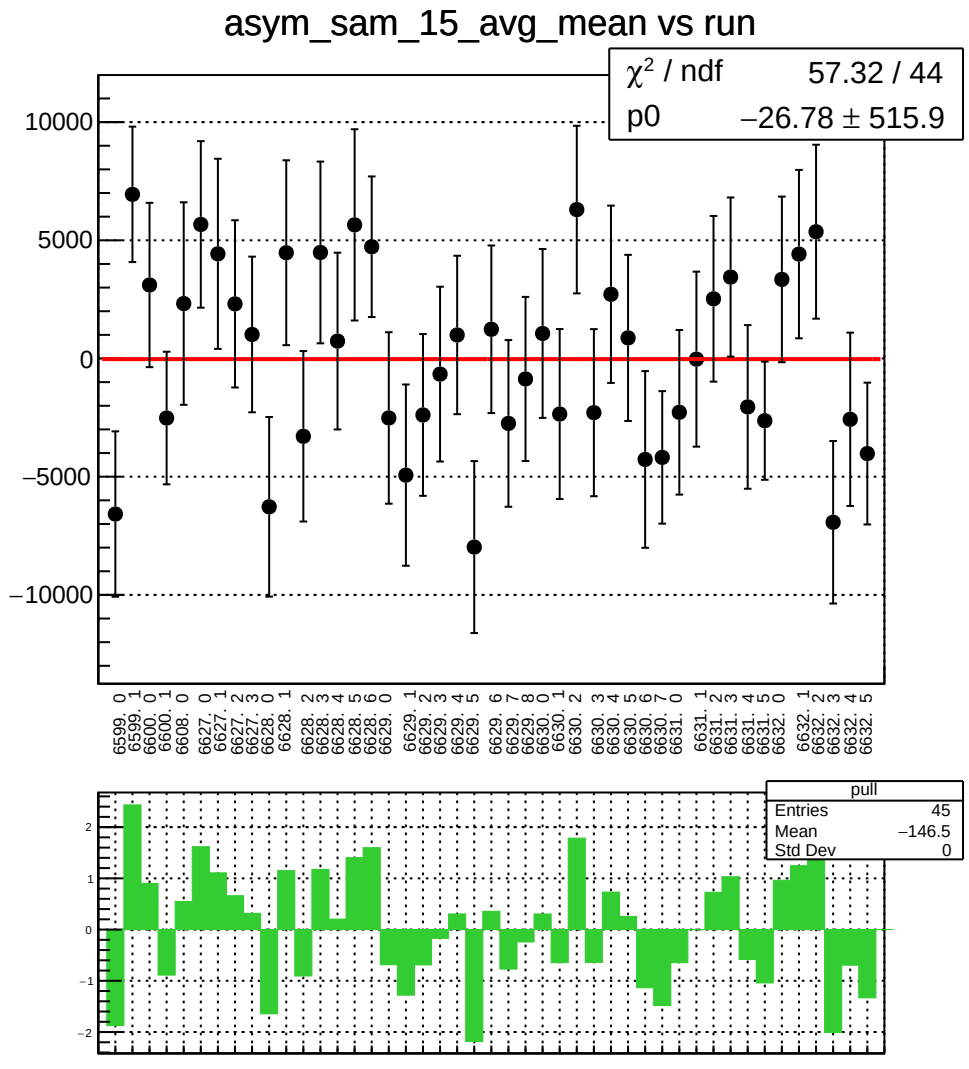

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 44.39 / 44
p0 −35.96 ± 90.08
pull
Entries 45
Mean −1039
Std Dev 0

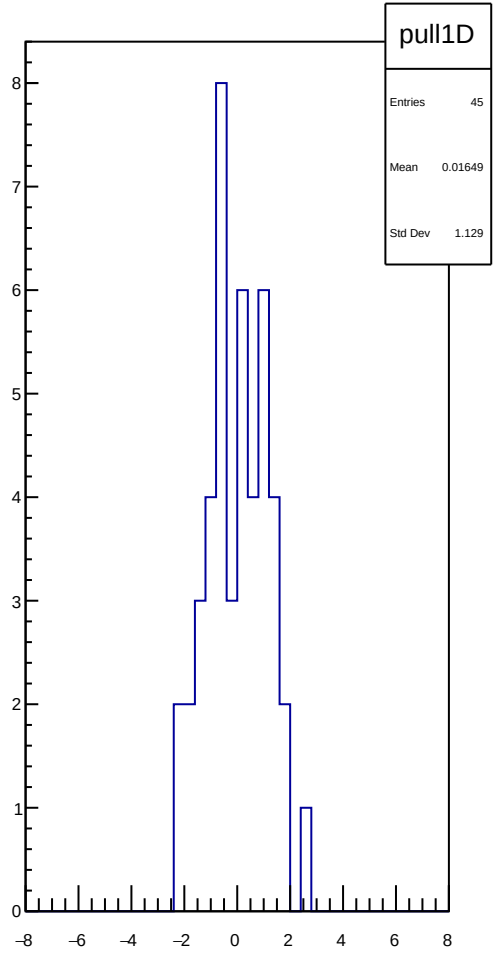

pull1D
Entries 45
Mean −0.002671
Std Dev 0.9932

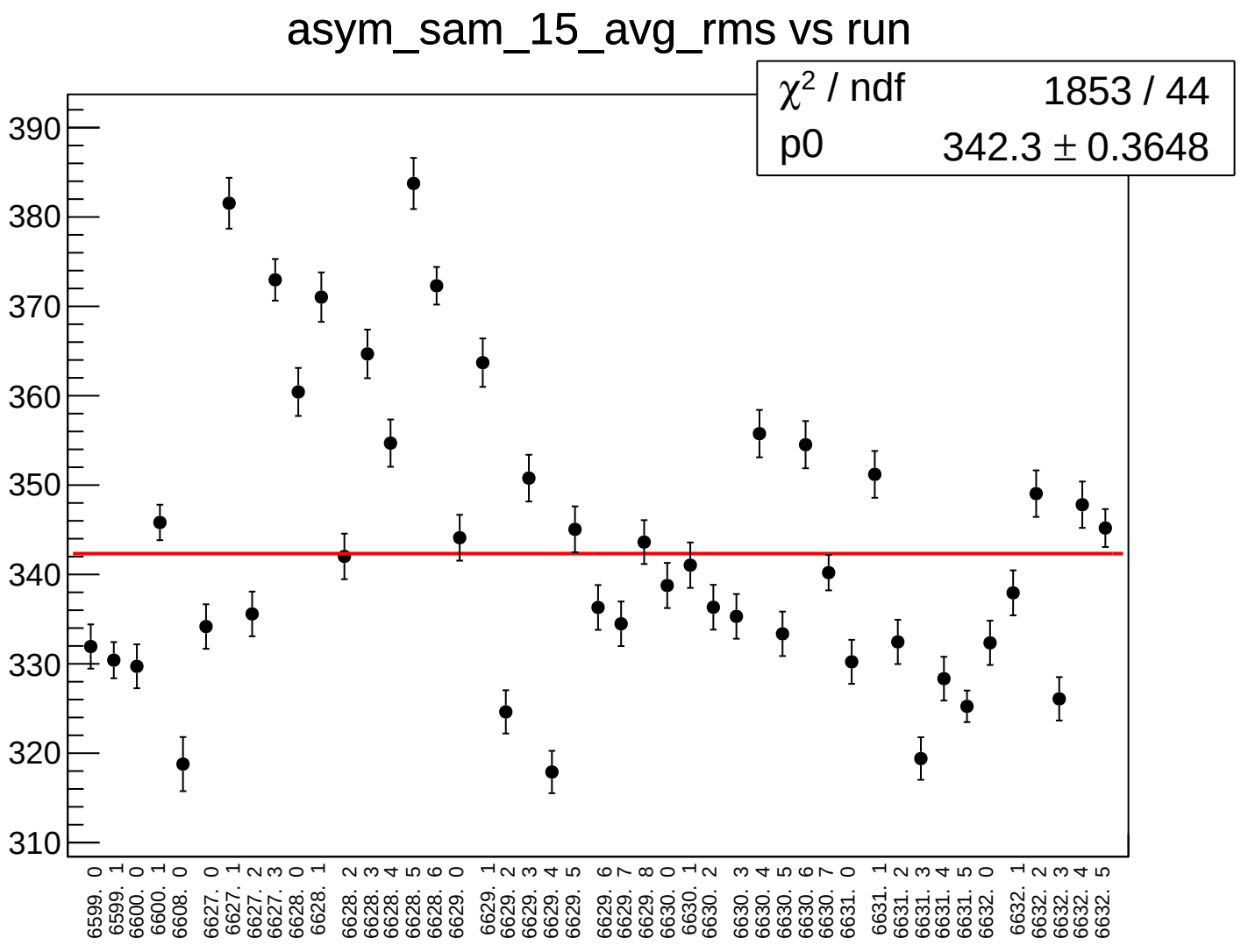

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 1708 / 44
p0 59.78 ± 0.0637
85
80
75
70
65
60
55
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

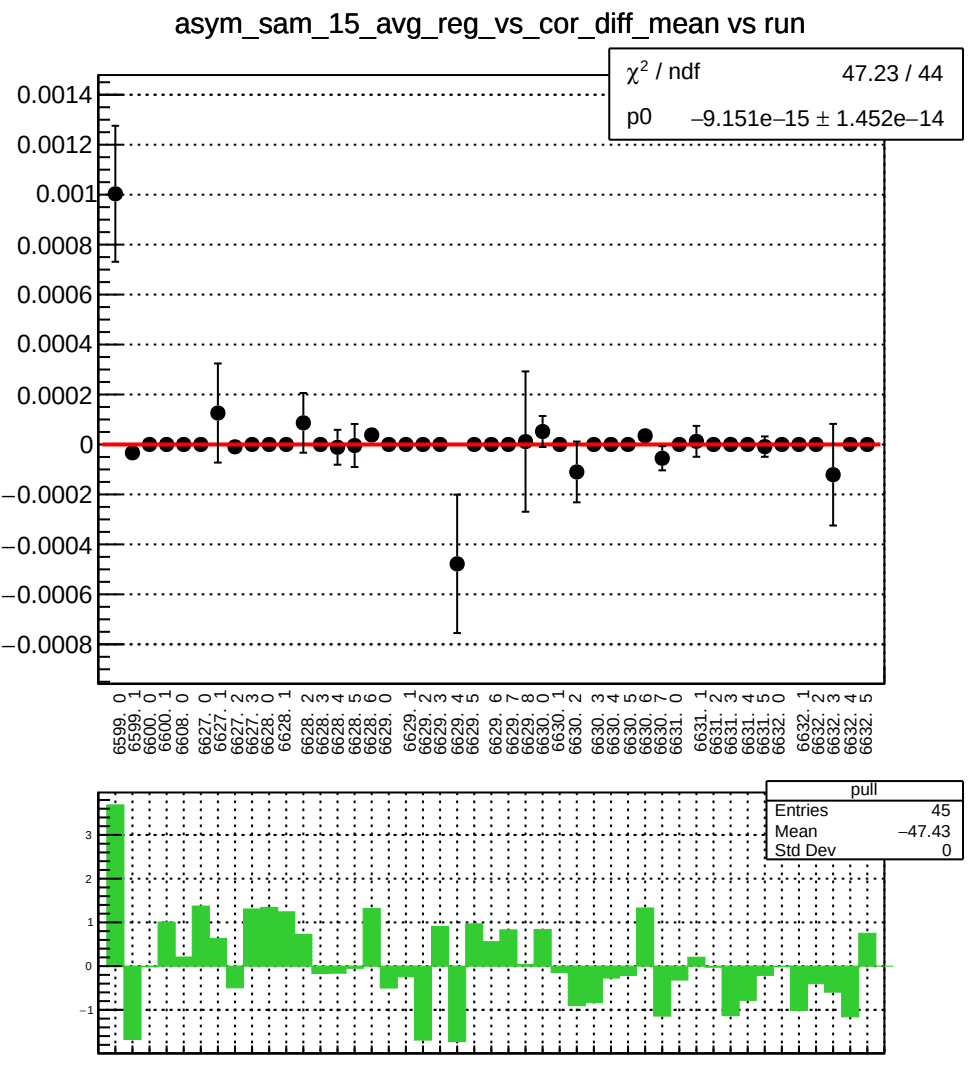

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 54.2 / 44
p0 −7.031 ± 540.5
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −164.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.01672
Std Dev 1.097
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

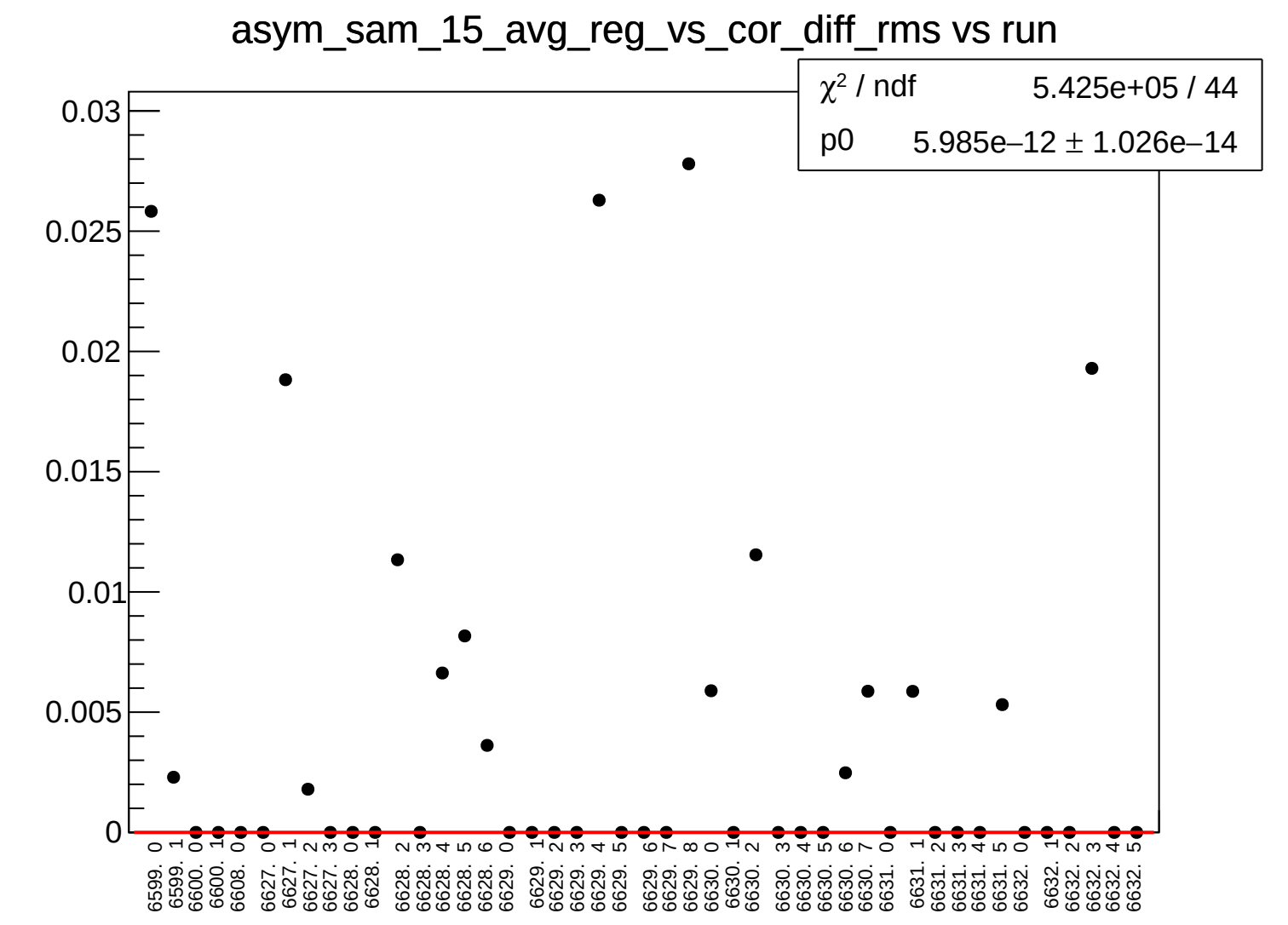

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 1429 / 44
p0 358.7 ± 0.3822
400
390
380
370
360
350
340
330
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

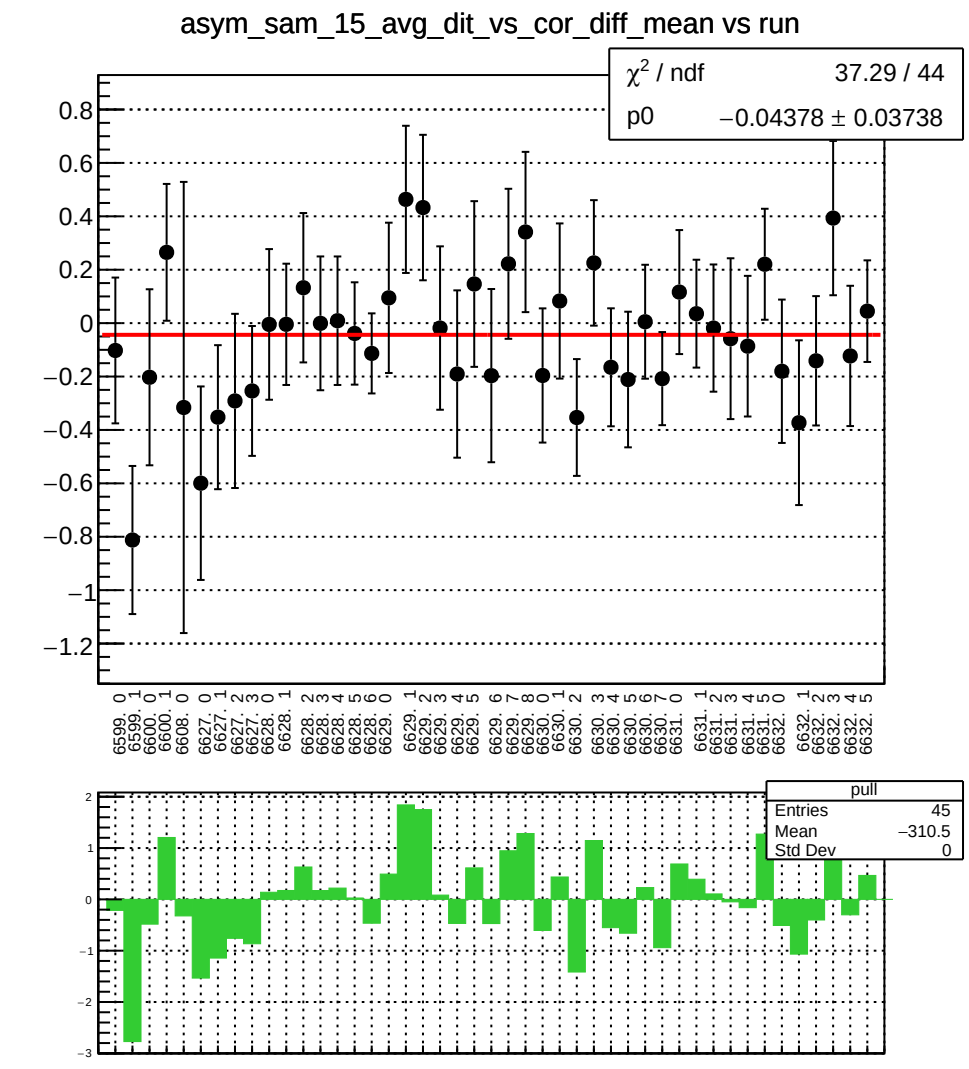

asym_sam_15_avg_mean vs run
χ² / ndf 57.32 / 44
p0 −26.78 ± 515.9
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −146.5
Std Dev 0
2
1
0
−1
−2

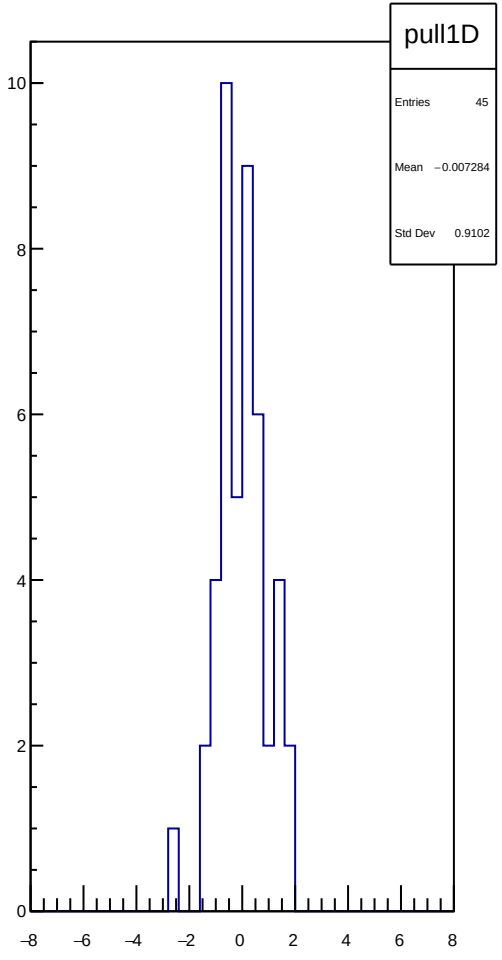

pull1D
Entries 45
Mean 0.01649
Std Dev 1.129
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

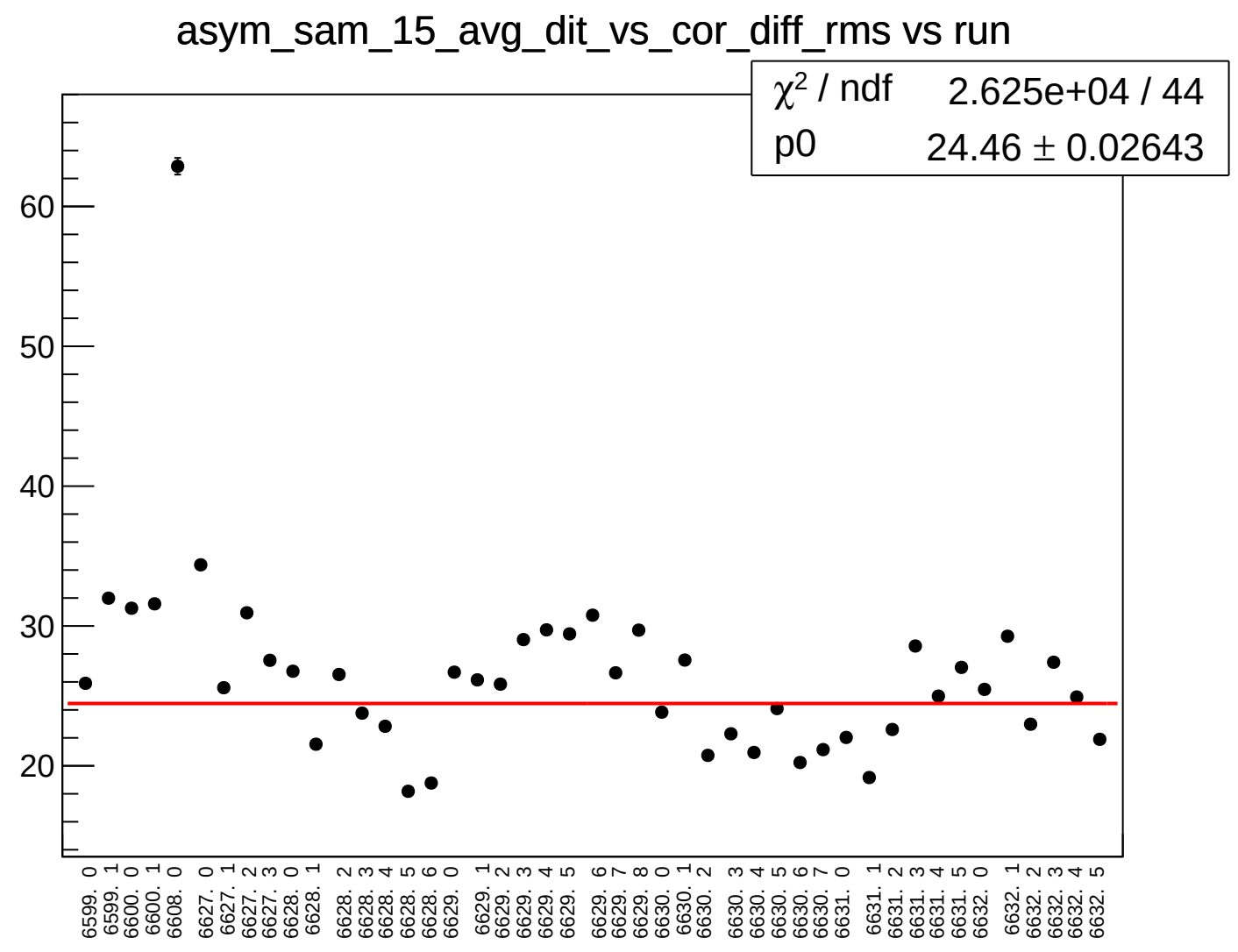

asym_sam_15_avg_rms vs run
χ² / ndf 1853 / 44
p0 342.3 ± 0.3648
390
380
370
360
350
340
330
320
310
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 47.23 / 44
p0 −9.151e−15 ± 1.452e−14
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −47.43
Std Dev 0
3
2
1
0
−1
pull1D
Entries 45
Mean 0.07498
Std Dev 1.022
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

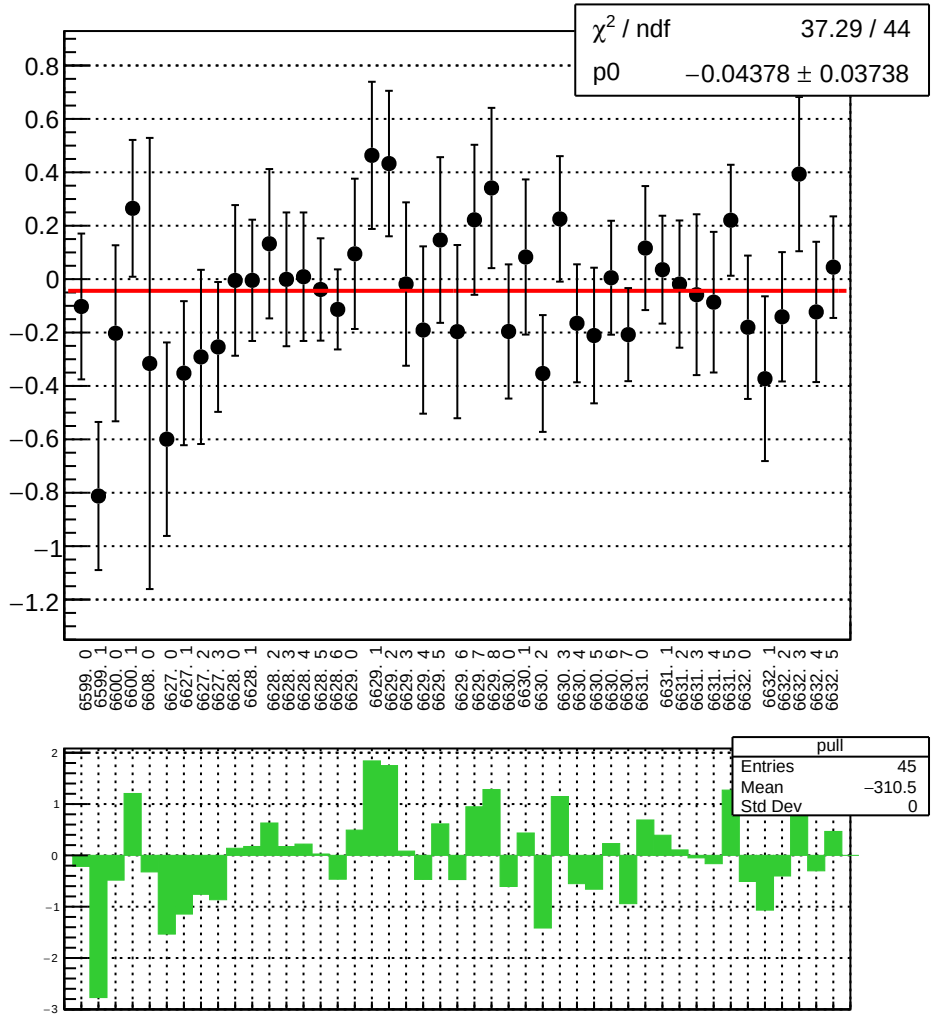

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.425e+05 / 44
p0 5.985e−12 ± 1.026e−14
0.03
0.025
0.02
0.015
0.01
0.005
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

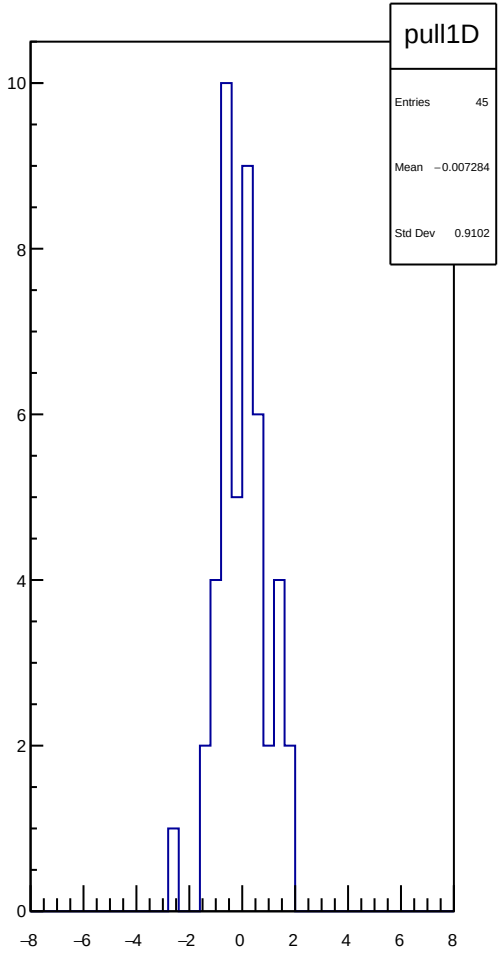

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 37.29 / 44
p0 −0.04378 ± 0.03738
pull
Entries 45
Mean −310.5
Std Dev 0

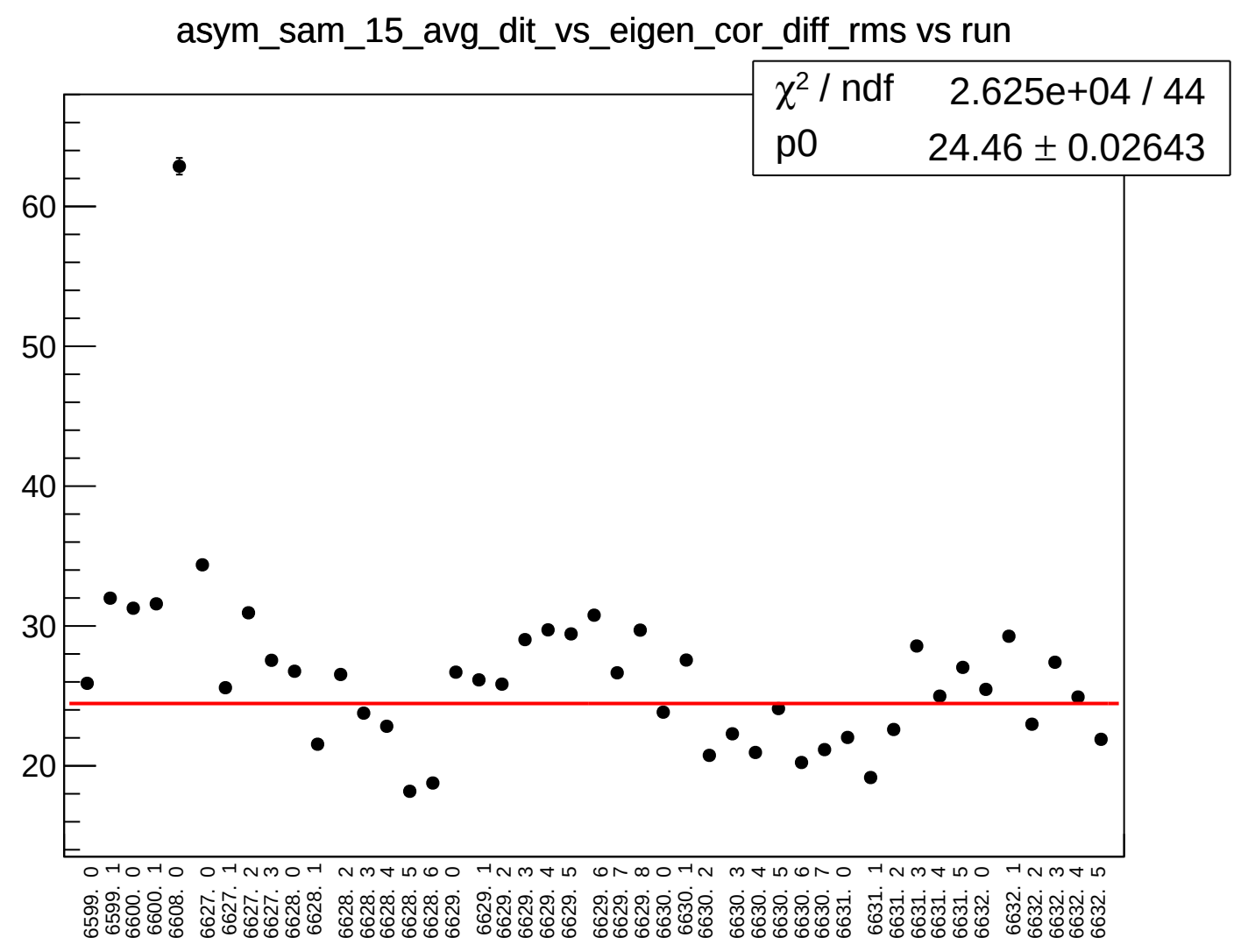

pull1D
Entries 45
Mean −0.007284
Std Dev 0.9102


asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.625e+04 / 44
p0 24.46 ± 0.02643
60
50
40
30
20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run




asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.625e+04 / 44
p0 24.46 ± 0.02643
60
50
40
30
20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
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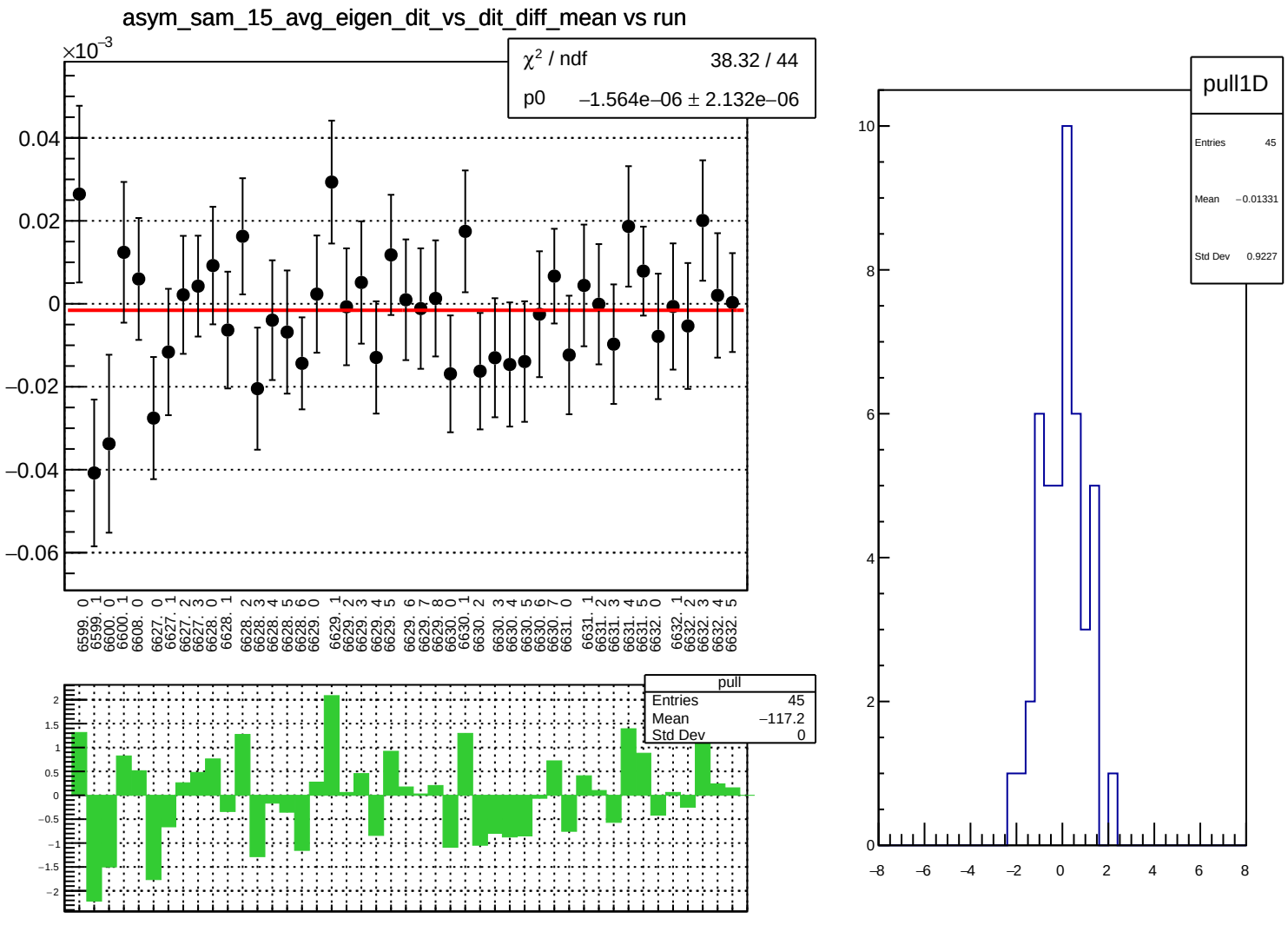
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 38.32 / 44
p0 −1.564e−06 ± 2.132e−06
0.04
0.02
0
−0.02
−0.04
−0.06
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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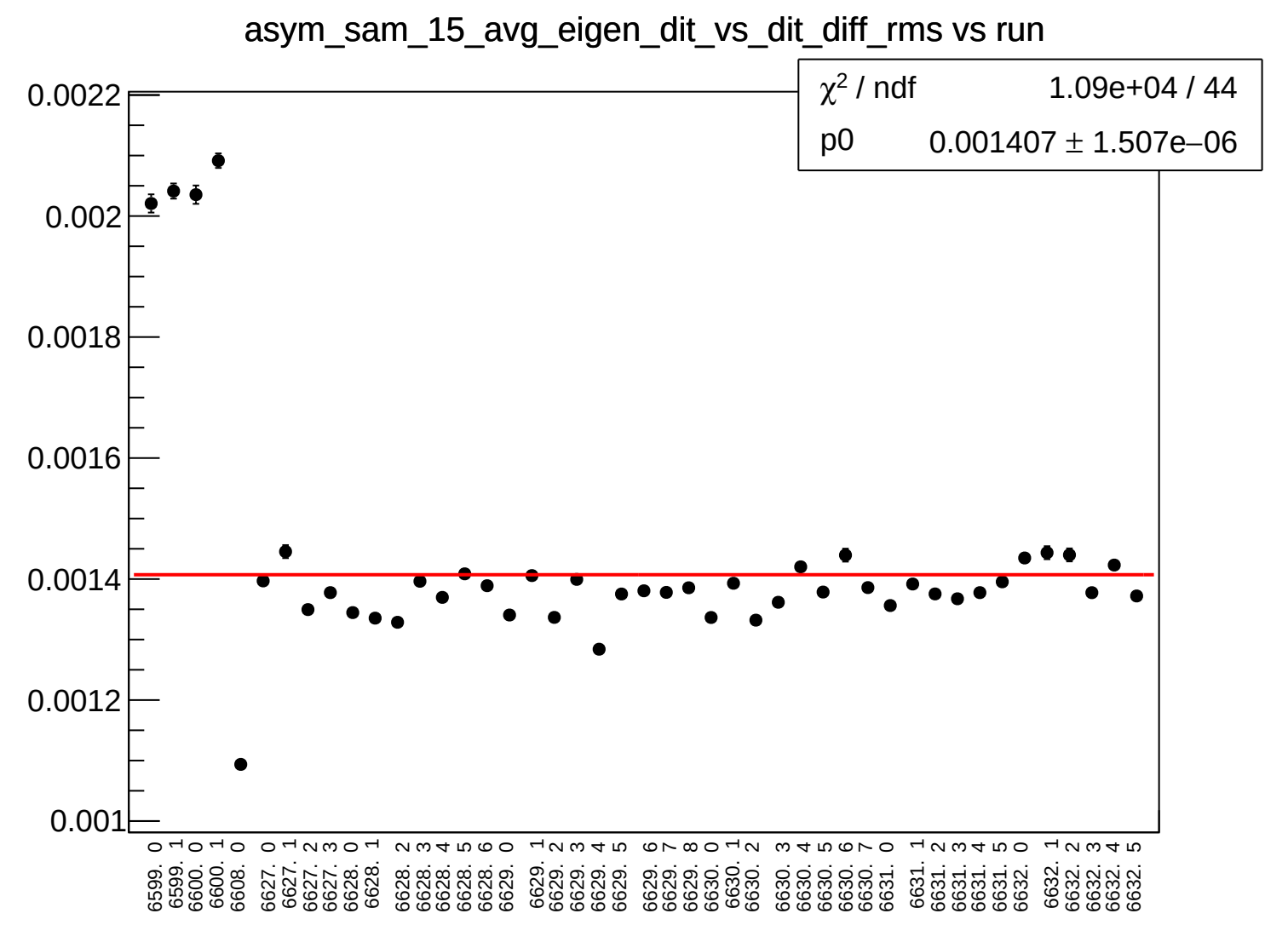
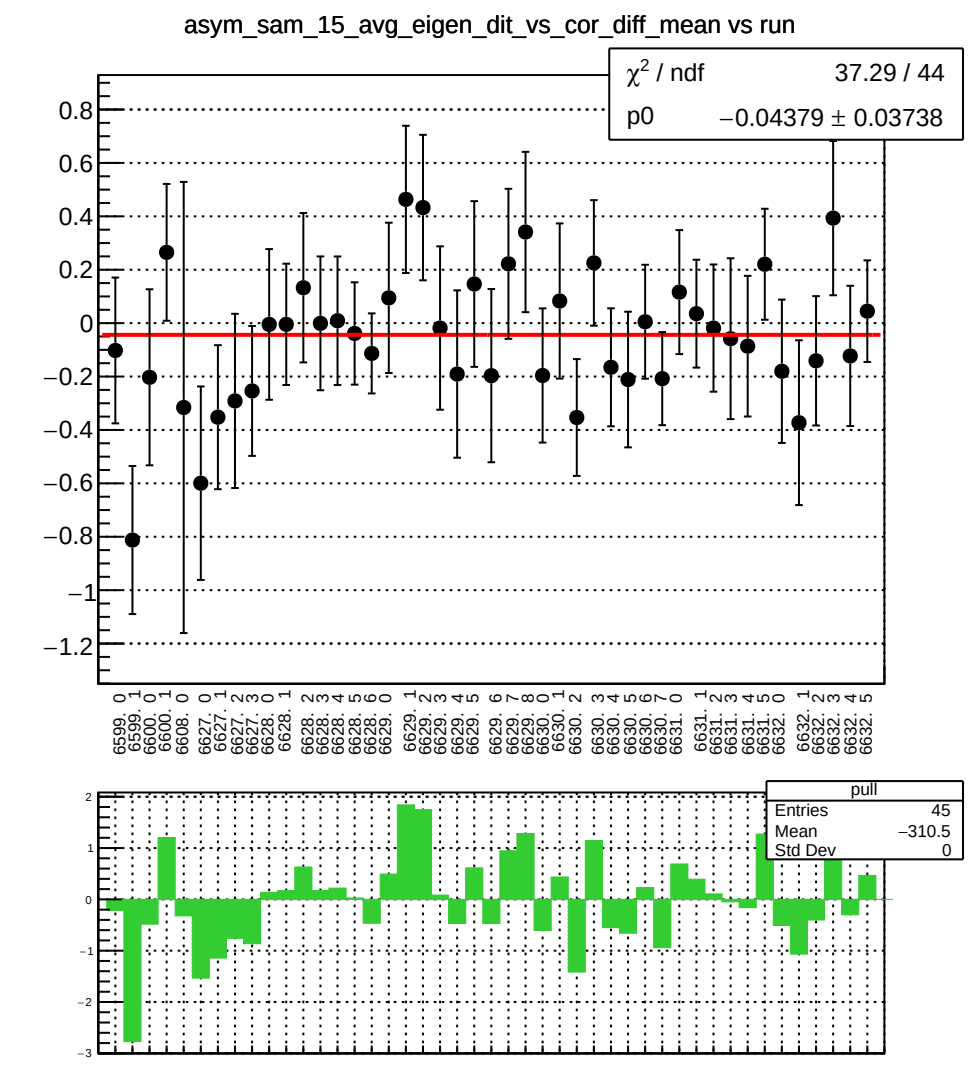
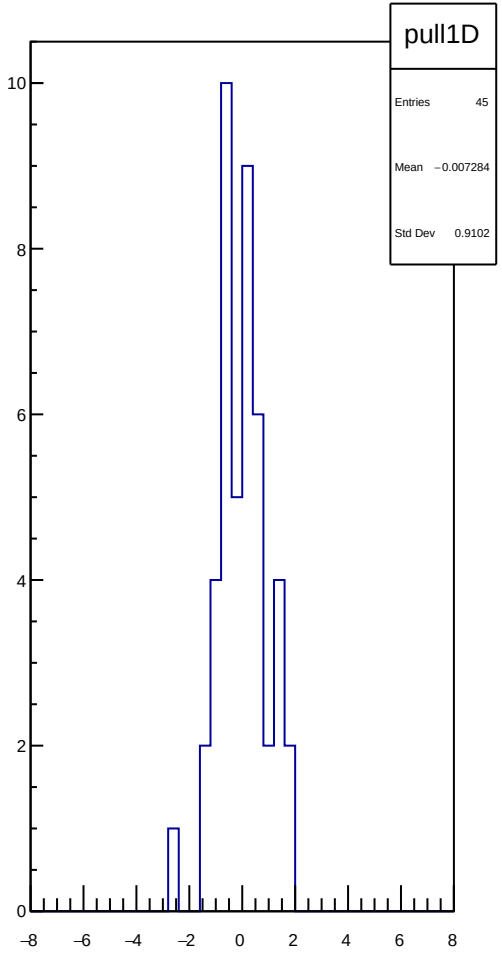
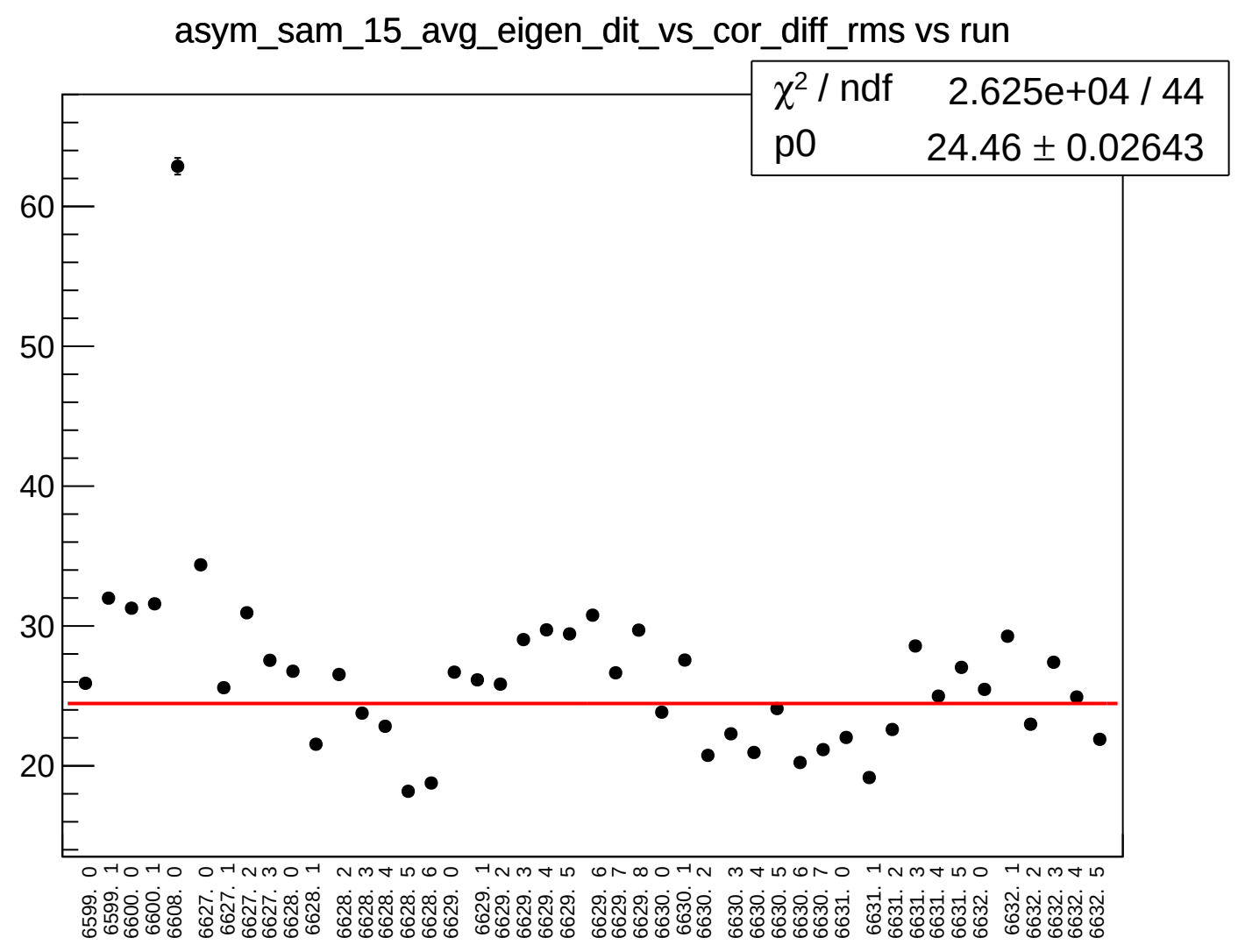
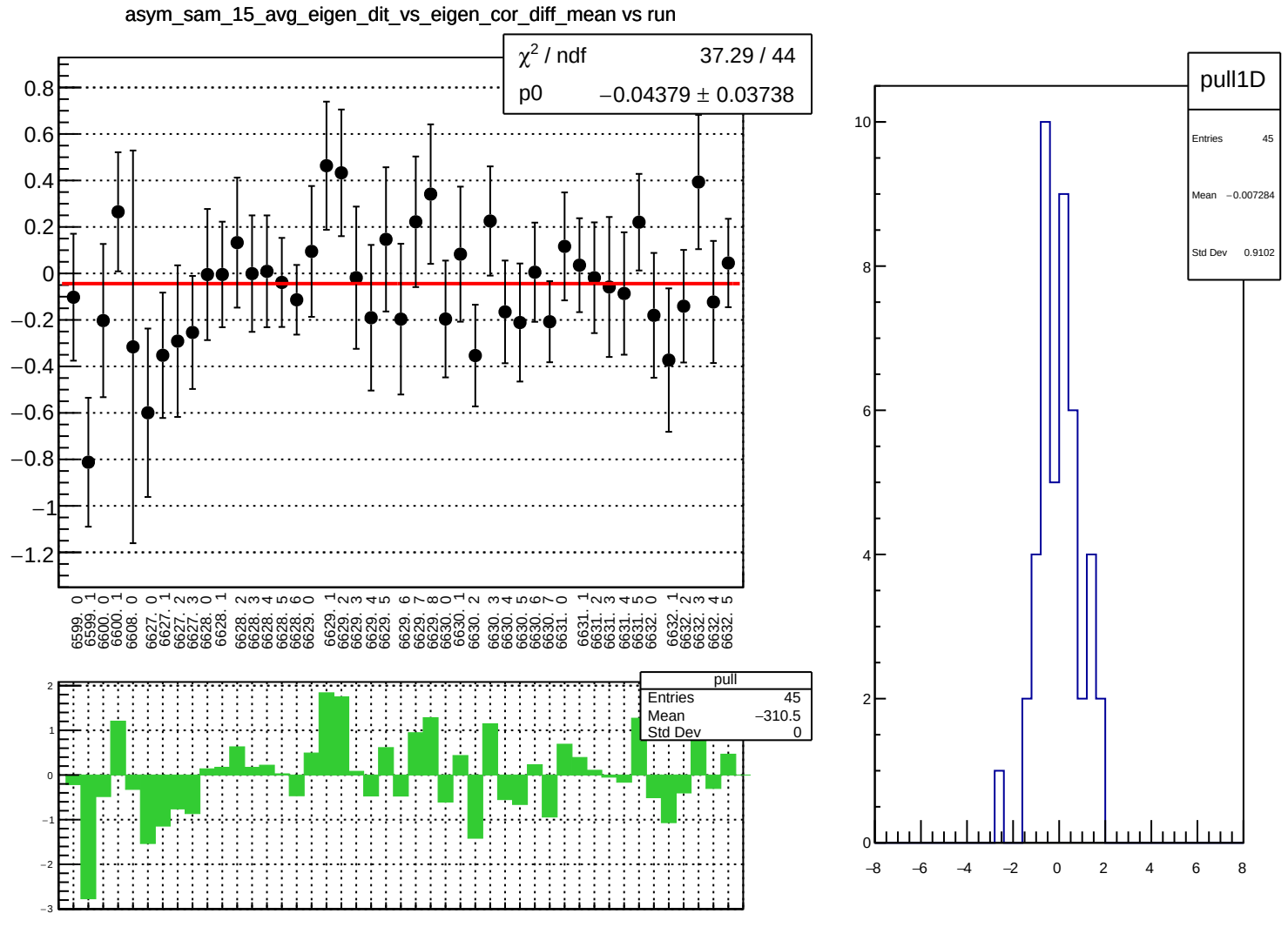
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −117.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01331
Std Dev 0.9227
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

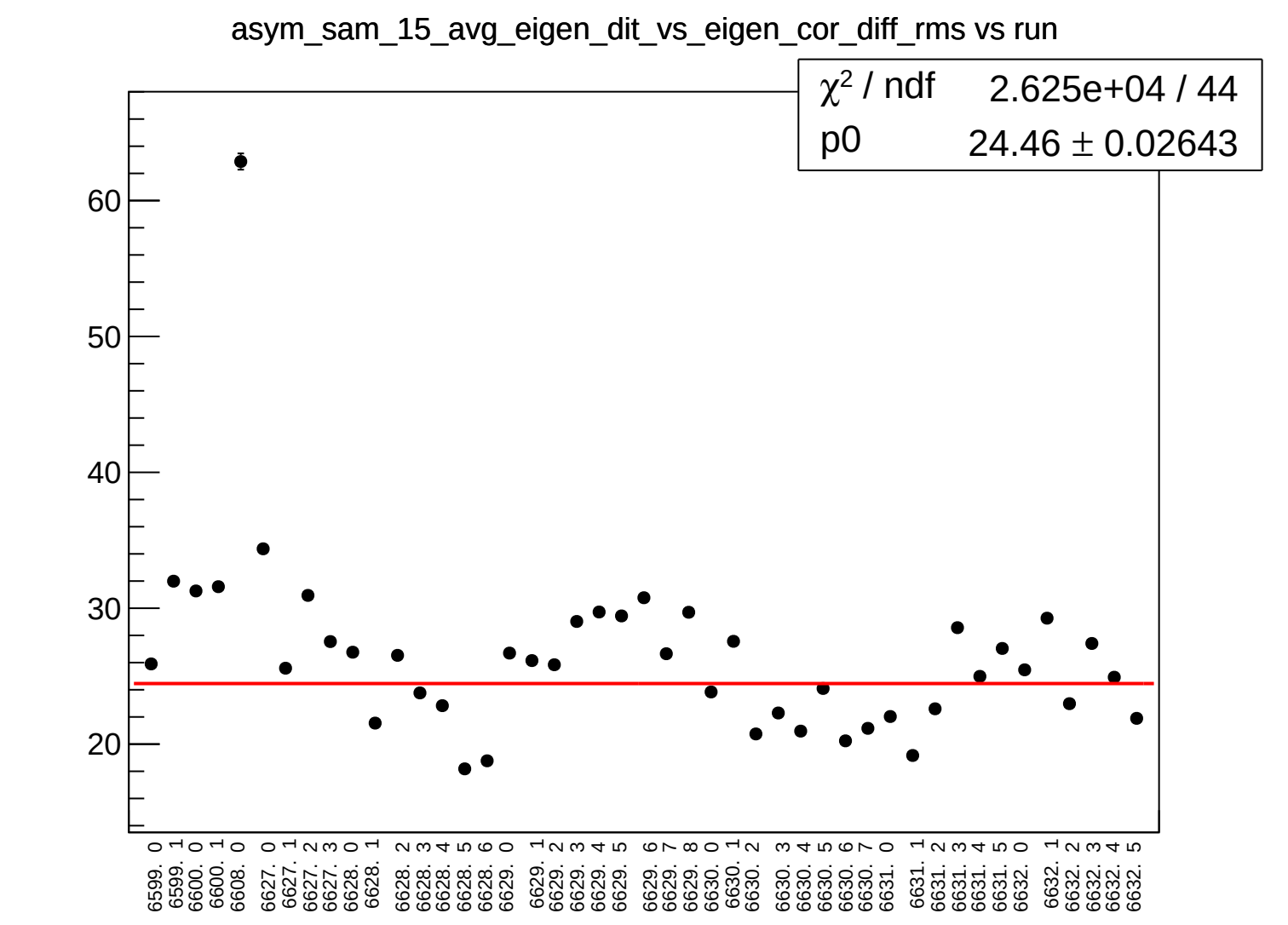

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.09e+04 / 44
p0 0.001407 ± 1.507e−06
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

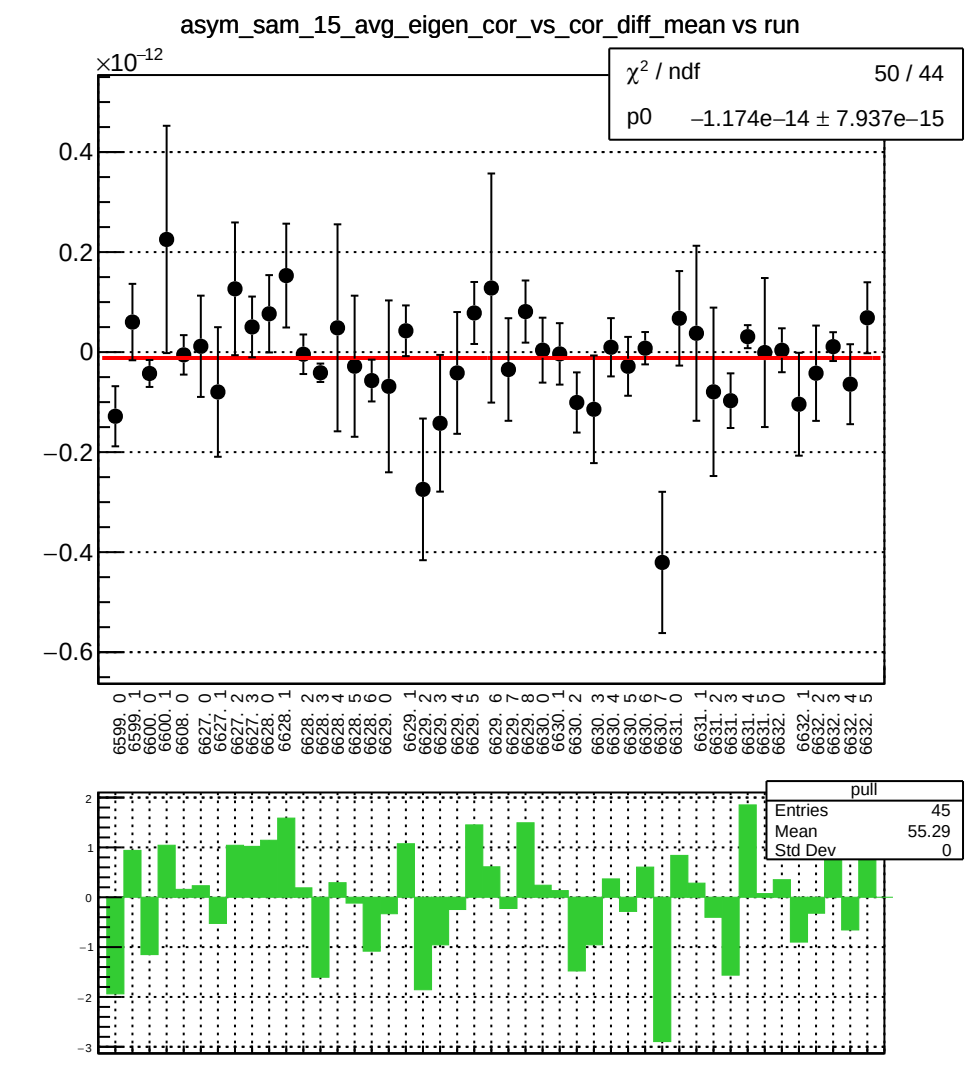

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.29 / 44
p0 −0.04379 ± 0.03738
pull
Entries 45
Mean −310.5
Std Dev 0

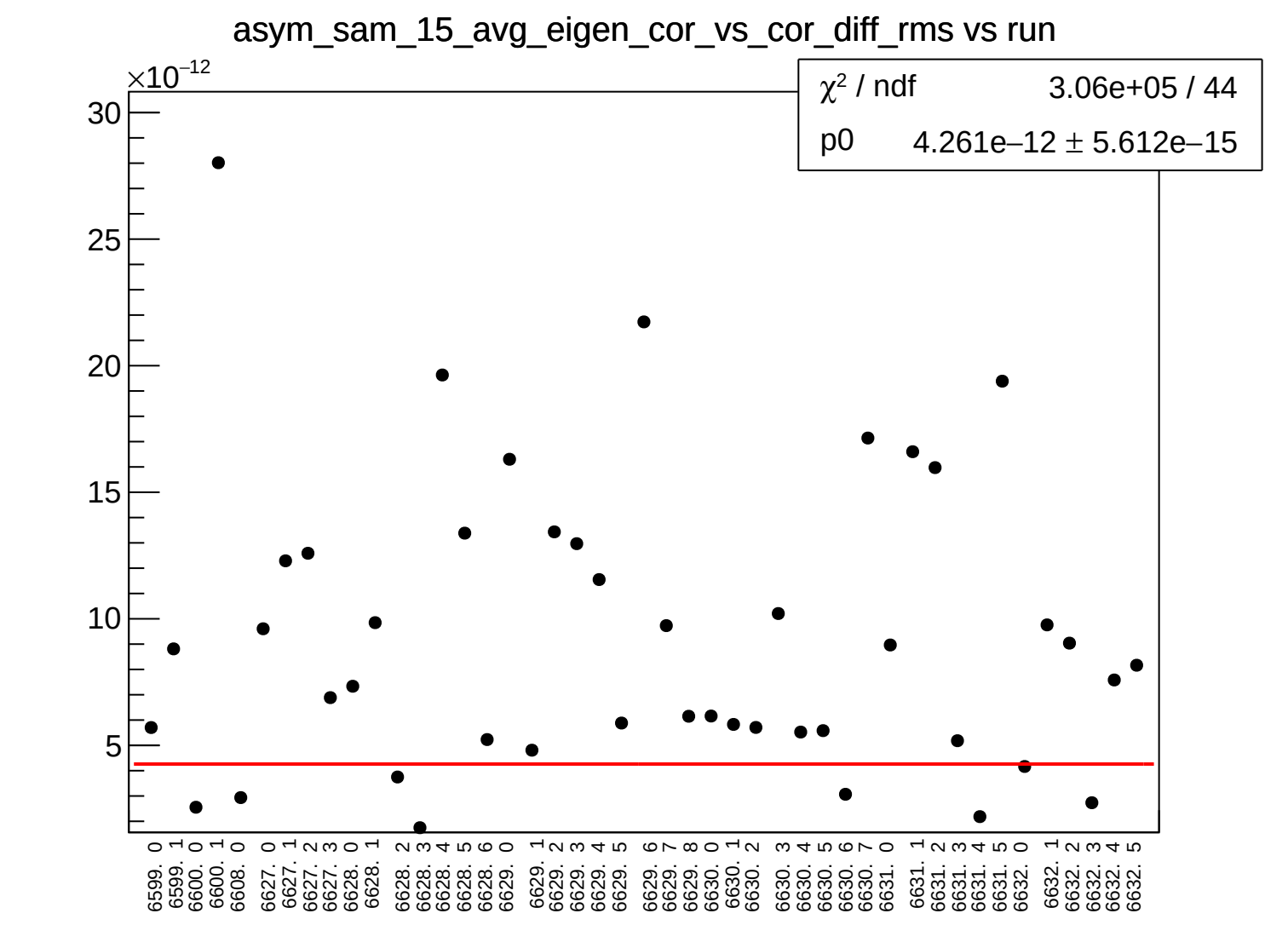

pull1D
Entries 45
Mean −0.007284
Std Dev 0.9102

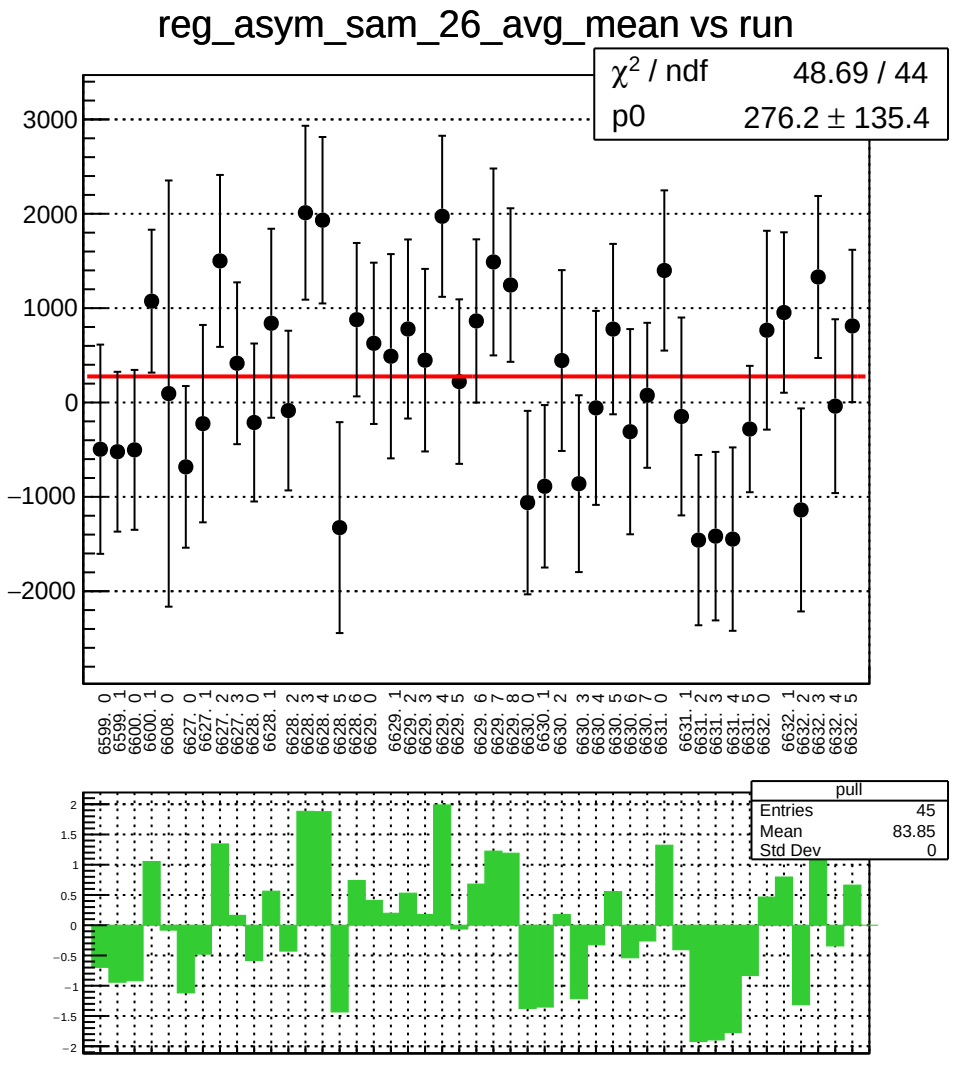

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.625e+04 / 44
p0 24.46 ± 0.02643
60
50
40
30
20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

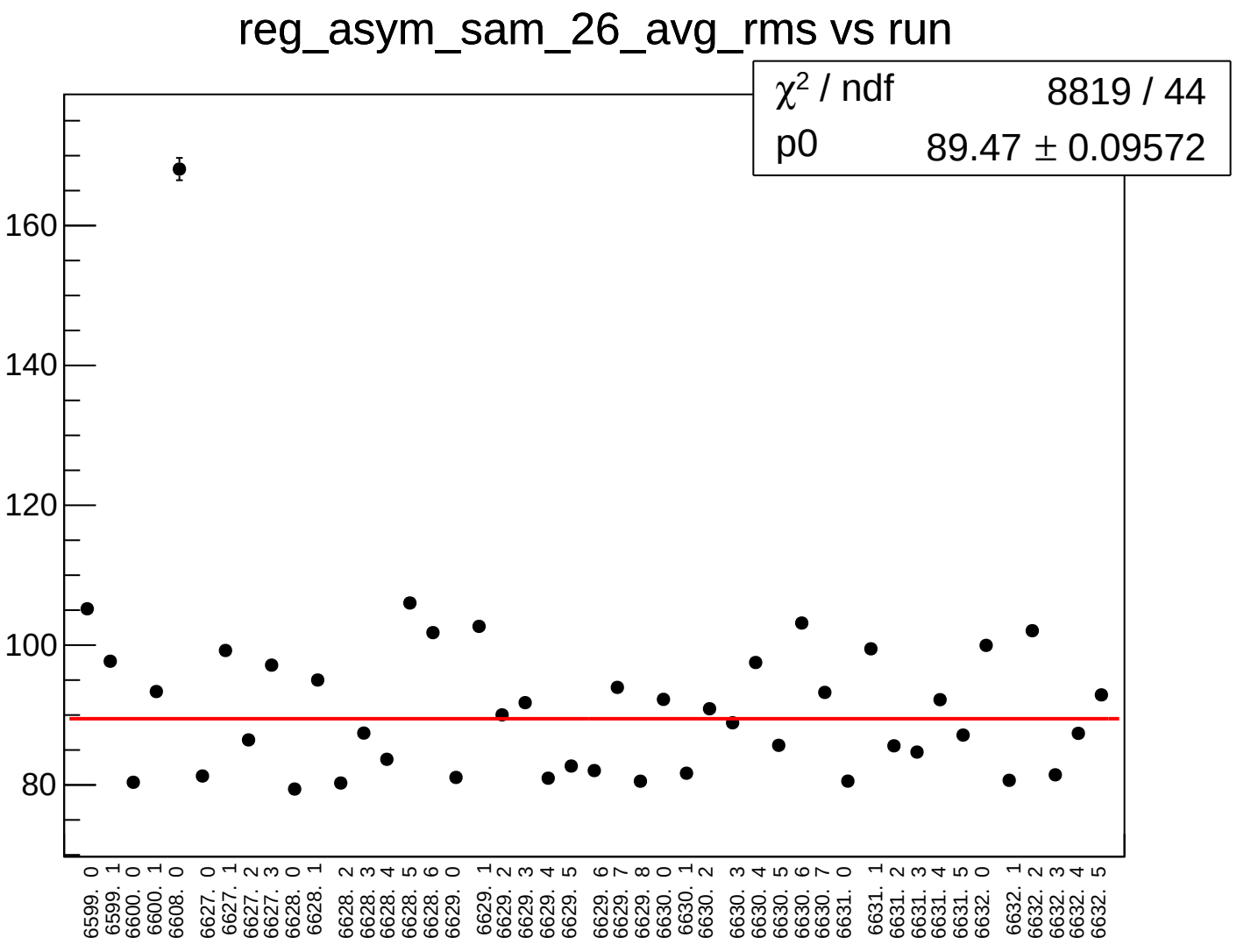

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.29 / 44
p0 −0.04379 ± 0.03738
pull
Entries 45
Mean −310.5
Std Dev 0
pull1D
Entries 45
Mean −0.007284
Std Dev 0.9102

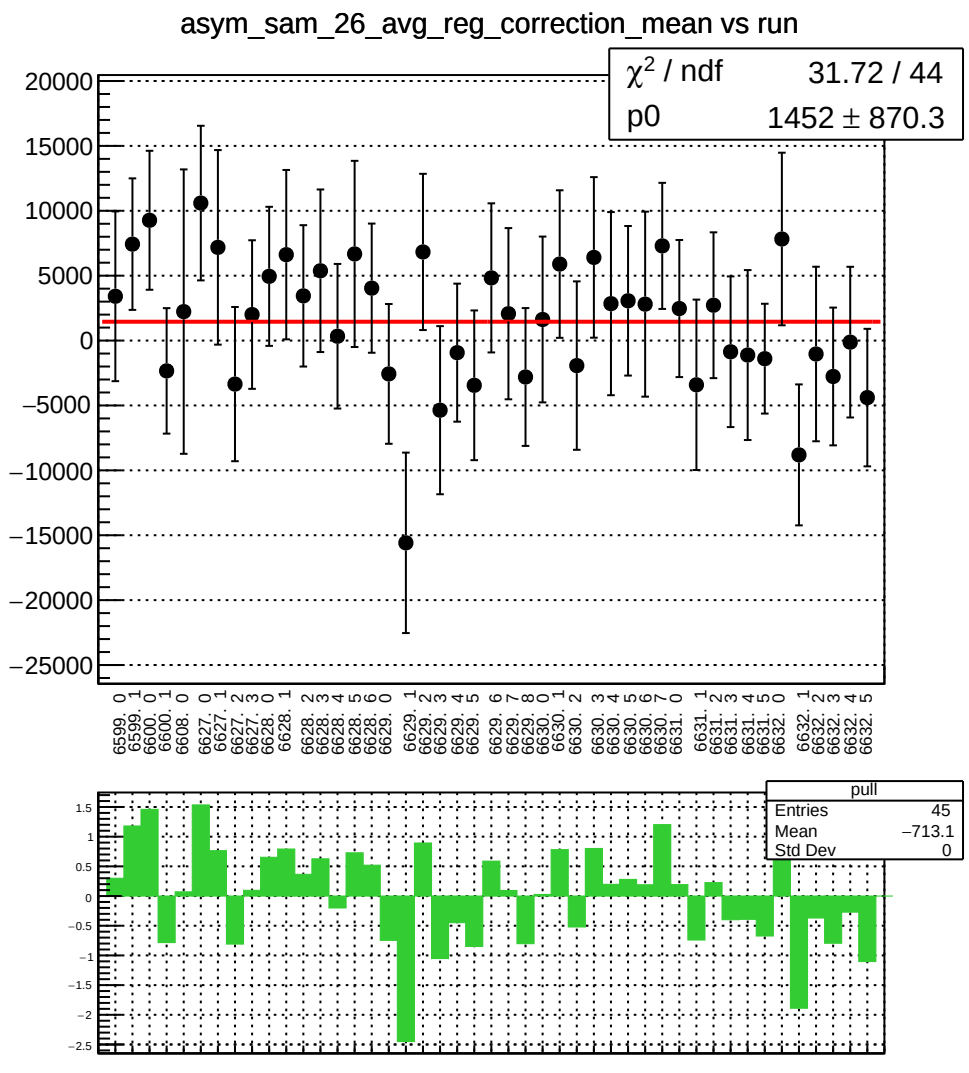

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.625e+04 / 44
p0 24.46 ± 0.02643
60
50
40
30
20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

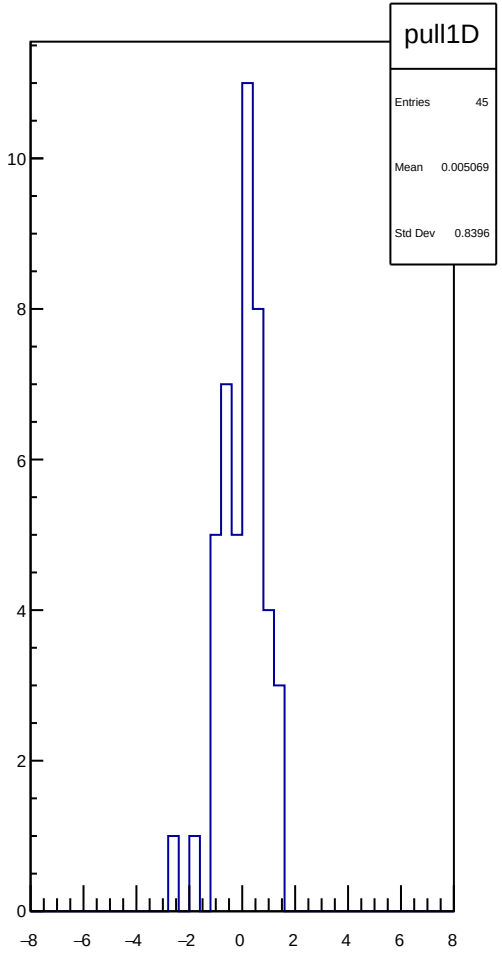

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 50 / 44
p0 −1.174e−14 ± 7.937e−15
0.4
0.2
0
−0.2
−0.4
−0.6
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 55.29
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.01185
Std Dev 1.054
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

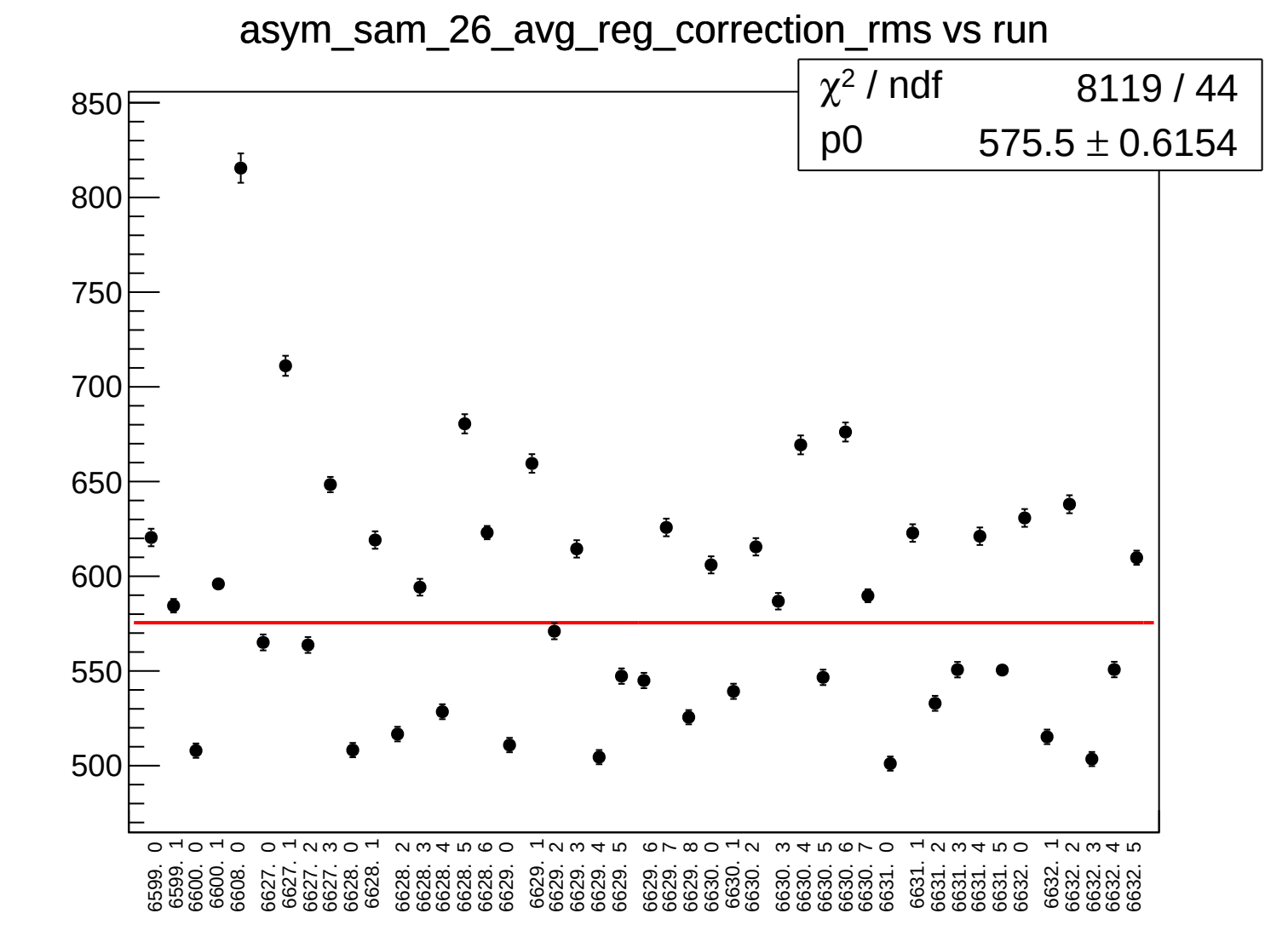

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.06e+05 / 44
p0 4.261e−12 ± 5.612e−15
30
25
20
15
10
5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

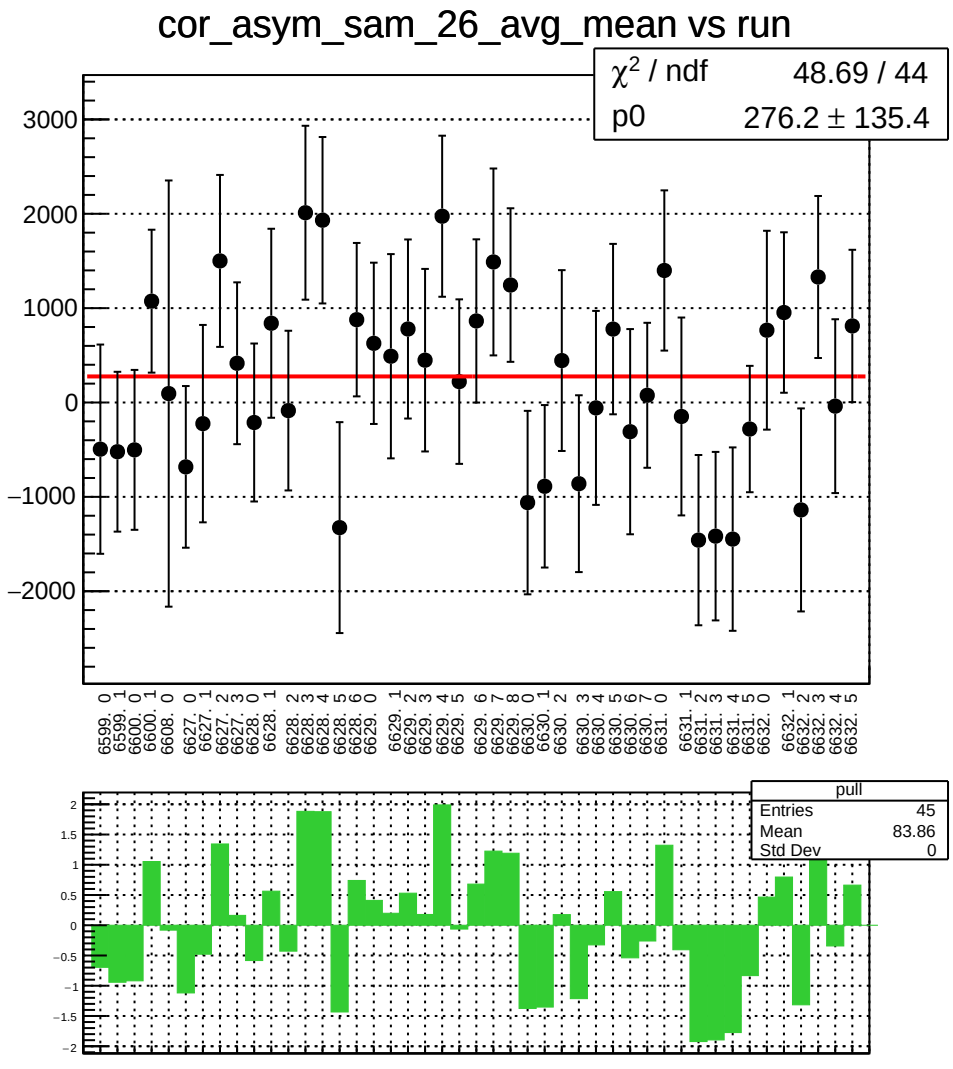

reg_asym_sam_26_avg_mean vs run
χ² / ndf 48.69 / 44
p0 276.2 ± 135.4
3000
2000
1000
0
−1000
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 83.85
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.02353
Std Dev 1.04
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

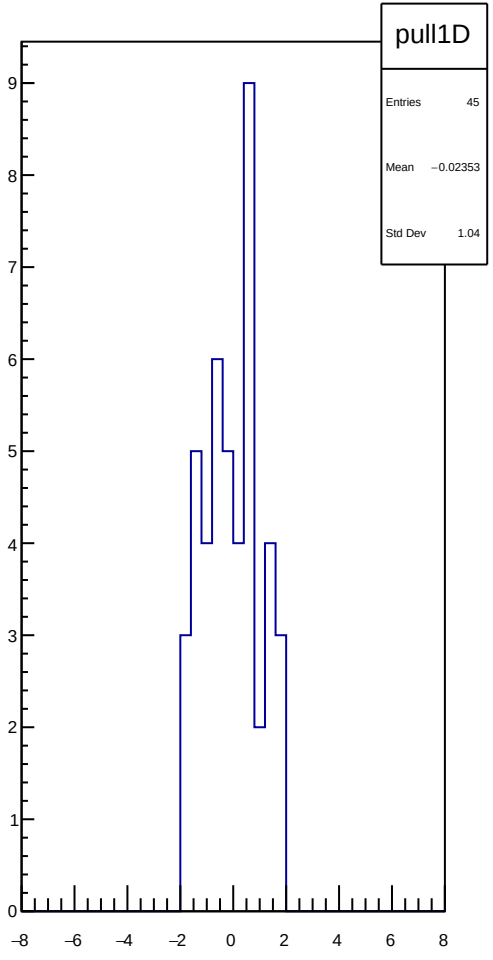

reg_asym_sam_26_avg_rms vs run
χ² / ndf 8819 / 44
p0 89.47 ± 0.09572
160
140
120
100
80
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

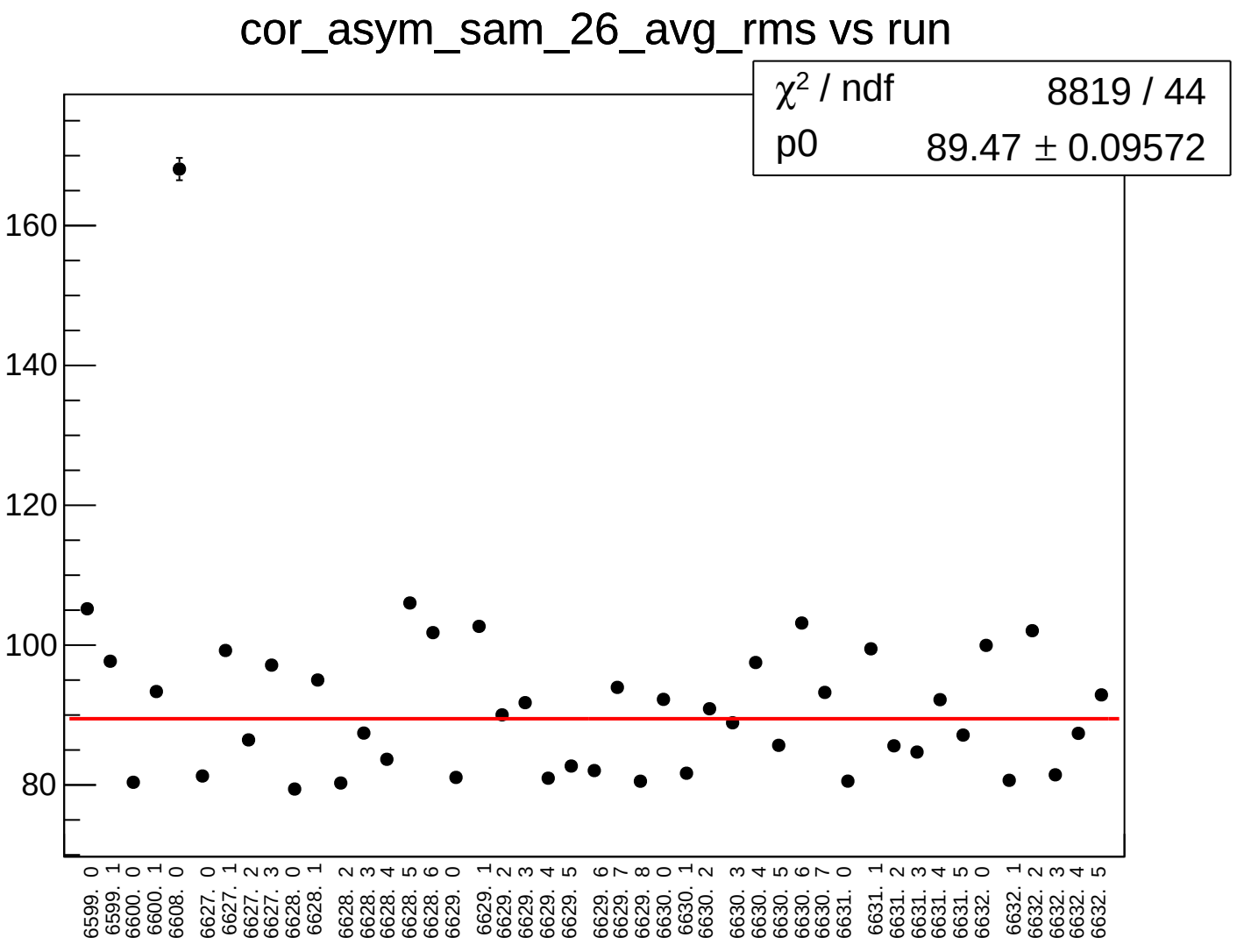

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 31.72 / 44
p0 1452 ± 870.3
pull
Entries 45
Mean −713.1
Std Dev 0

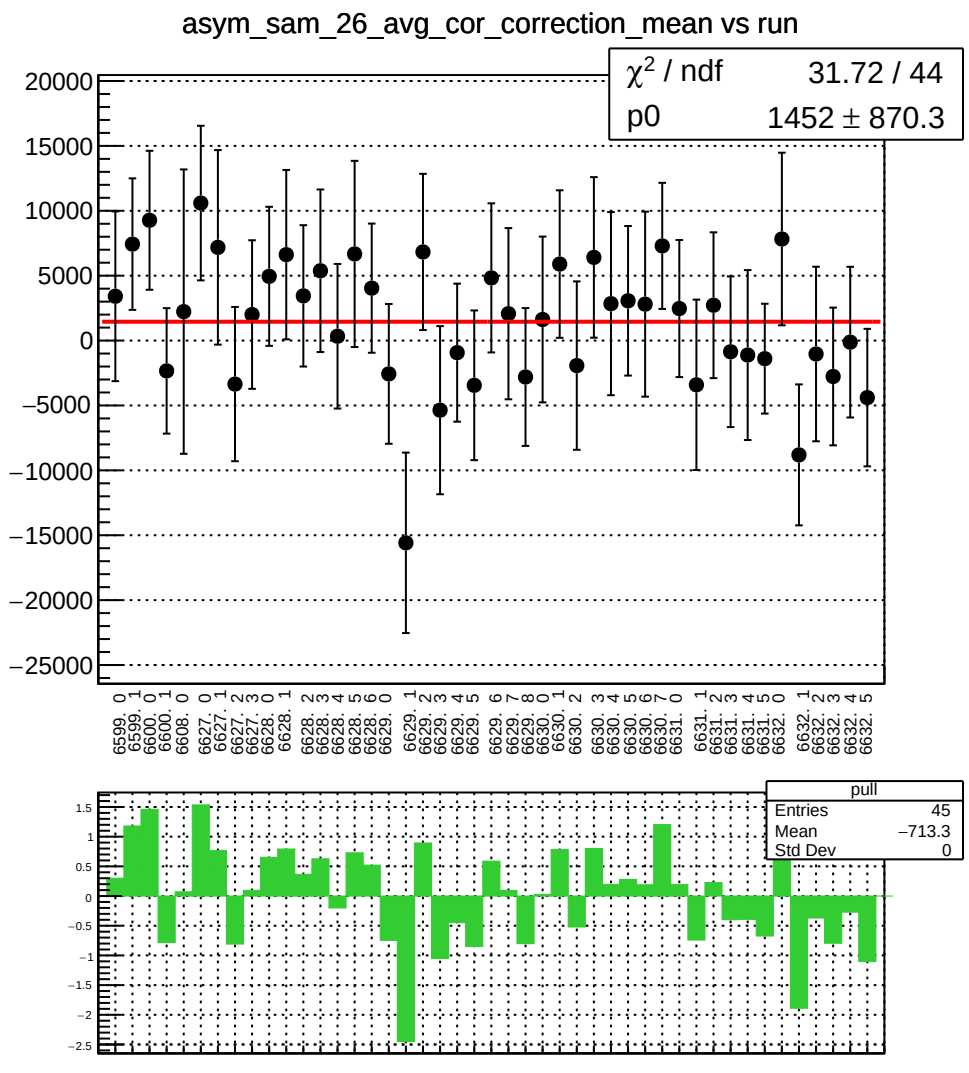

pull1D
Entries 45
Mean 0.005069
Std Dev 0.8396

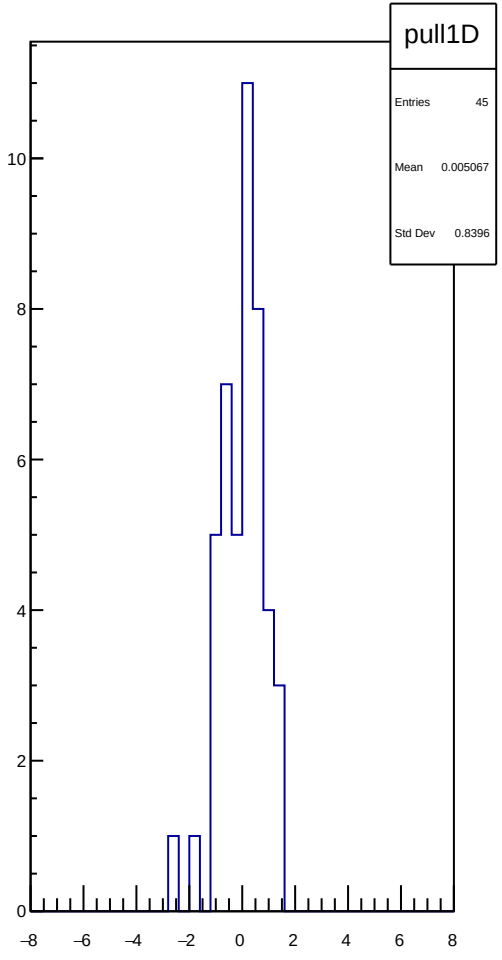

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 8119 / 44
p0 575.5 ± 0.6154
850
800
750
700
650
600
550
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

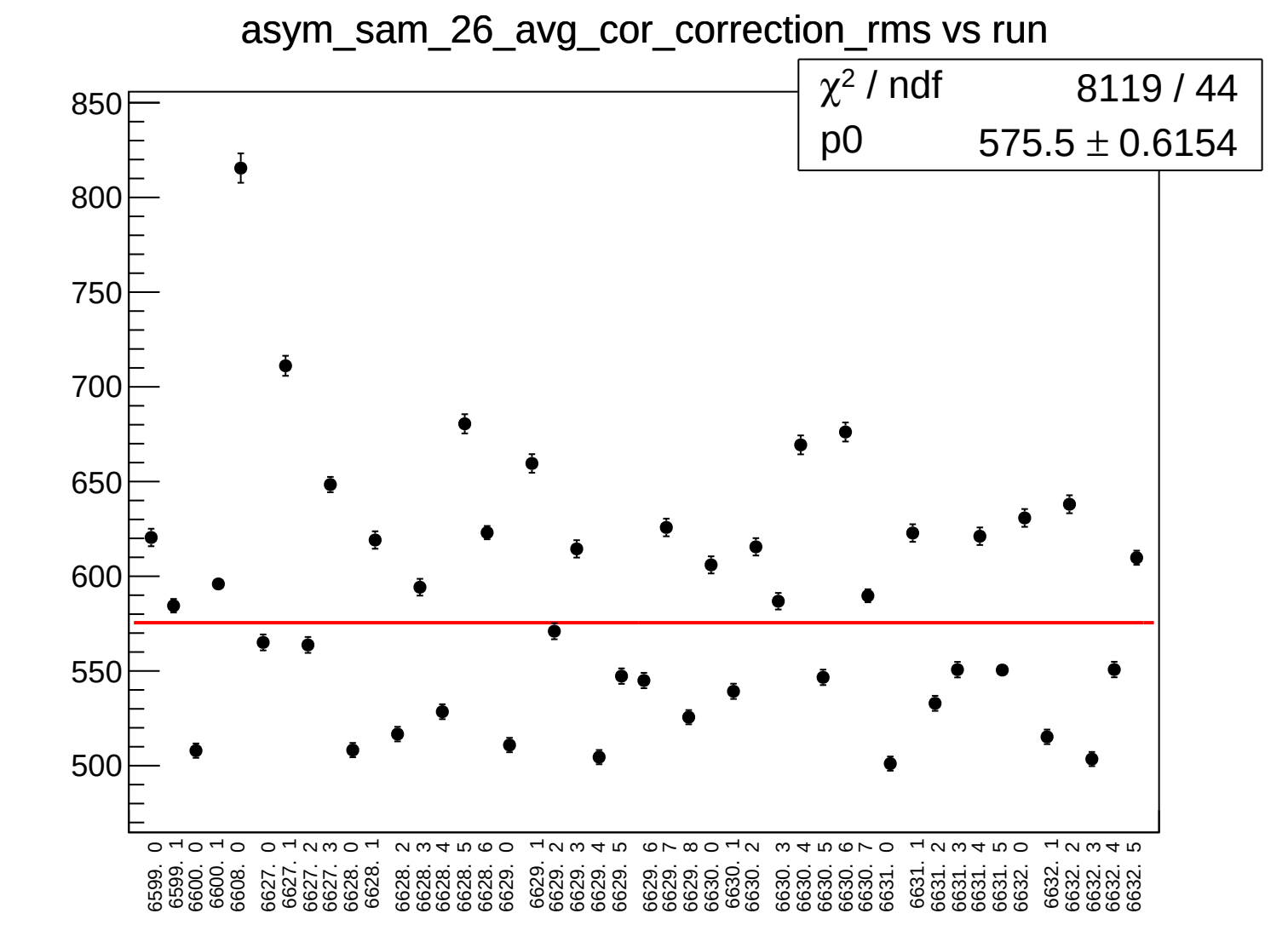

cor_asym_sam_26_avg_mean vs run
χ² / ndf 48.69 / 44
p0 276.2 ± 135.4
3000
2000
1000
0
−1000
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 83.86
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.02353
Std Dev 1.04
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_26_avg_rms vs run
χ² / ndf 8819 / 44
p0 89.47 ± 0.09572
160
140
120
100
80
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 31.72 / 44
p0 1452 ± 870.3
pull
Entries 45
Mean −713.3
Std Dev 0


pull1D
Entries 45
Mean 0.005067
Std Dev 0.8396


asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 8119 / 44
p0 575.5 ± 0.6154
850
800
750
700
650
600
550
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 4
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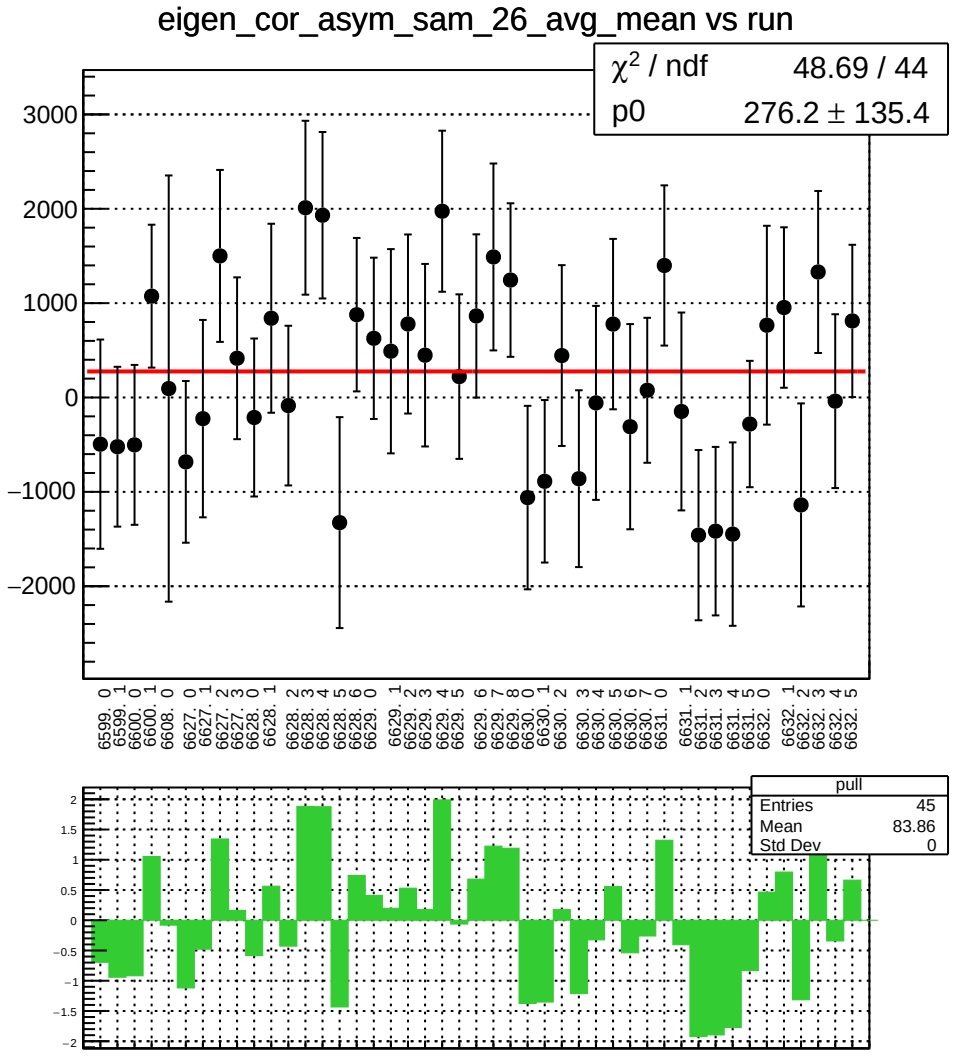
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 48.69 / 44
p0 276.2 ± 135.4
3000
2000
1000
0
−1000
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
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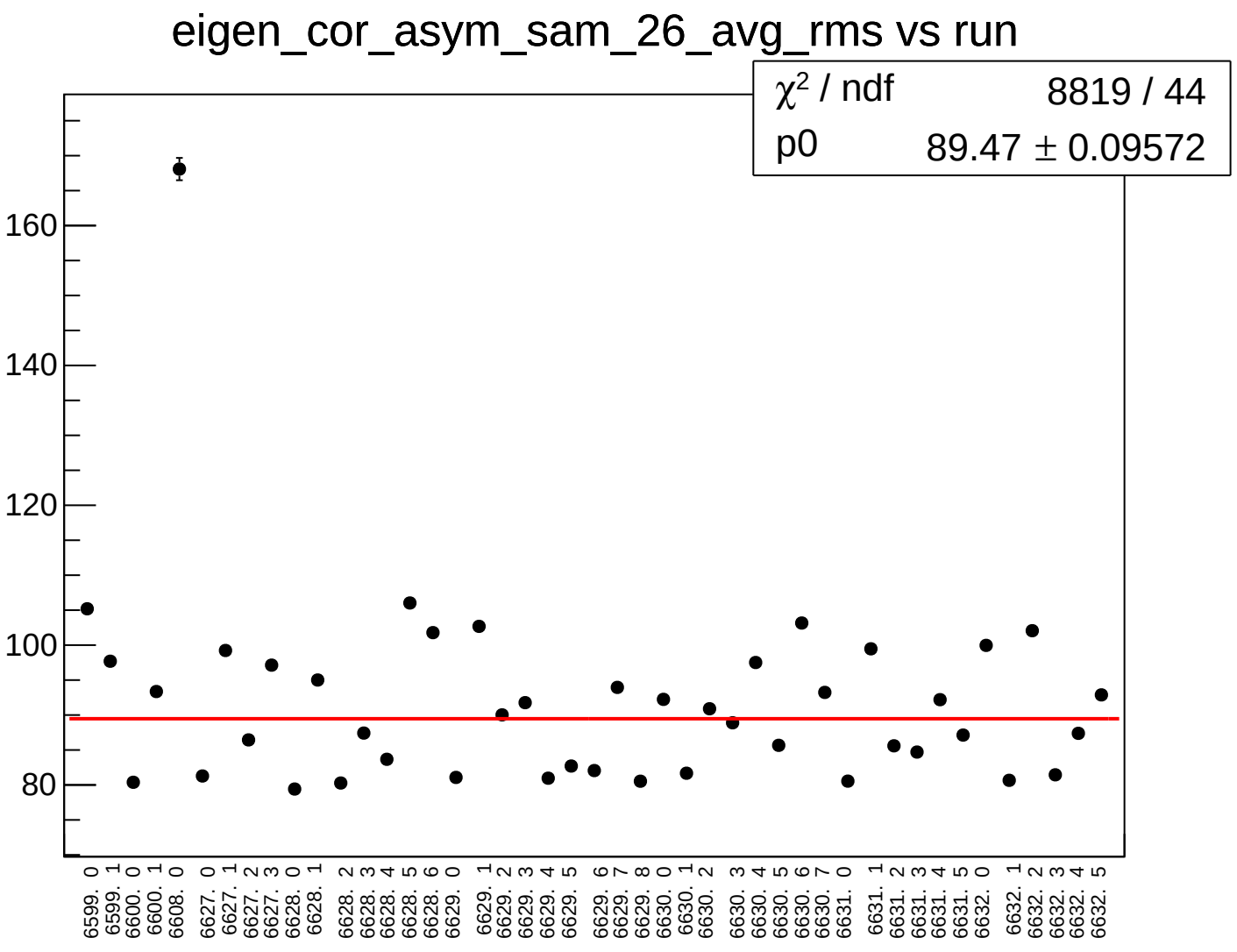
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 83.86
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.02353
Std Dev 1.04
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 8819 / 44
p0 89.47 ± 0.09572
160
140
120
100
80
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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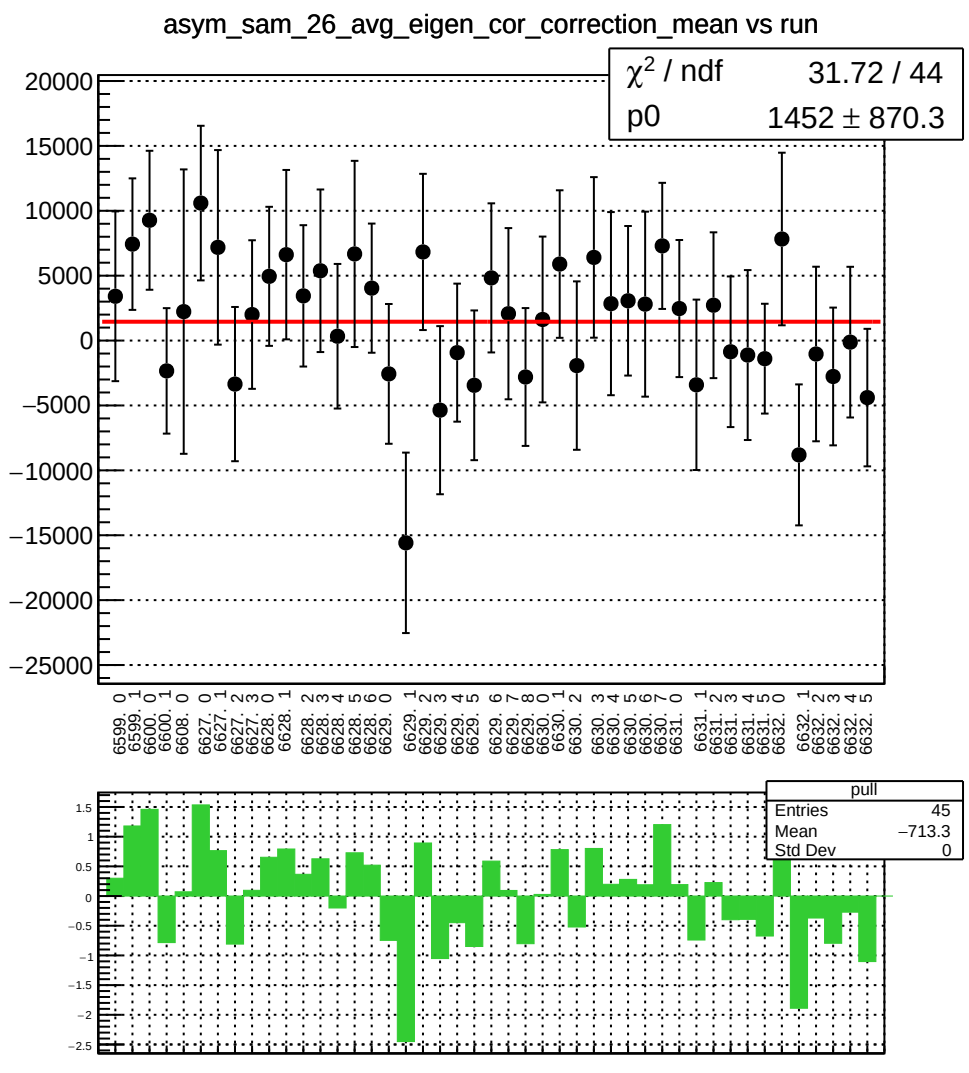
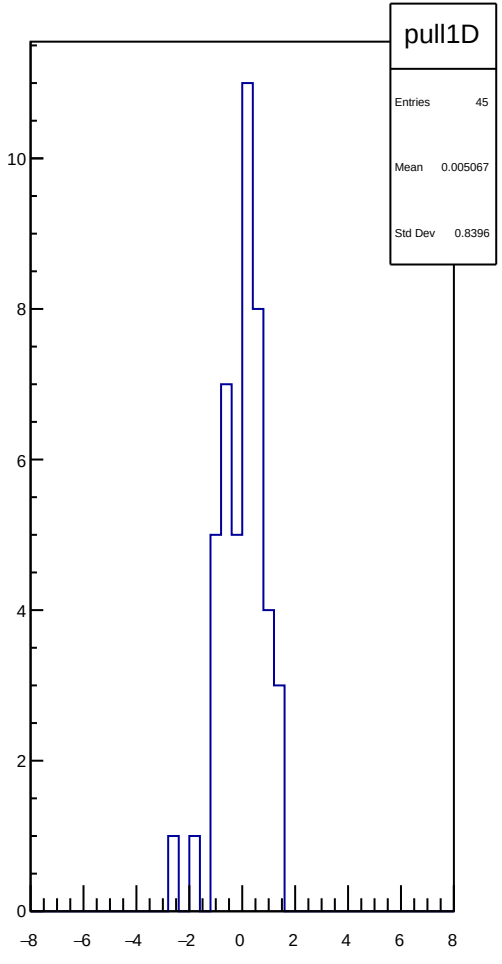
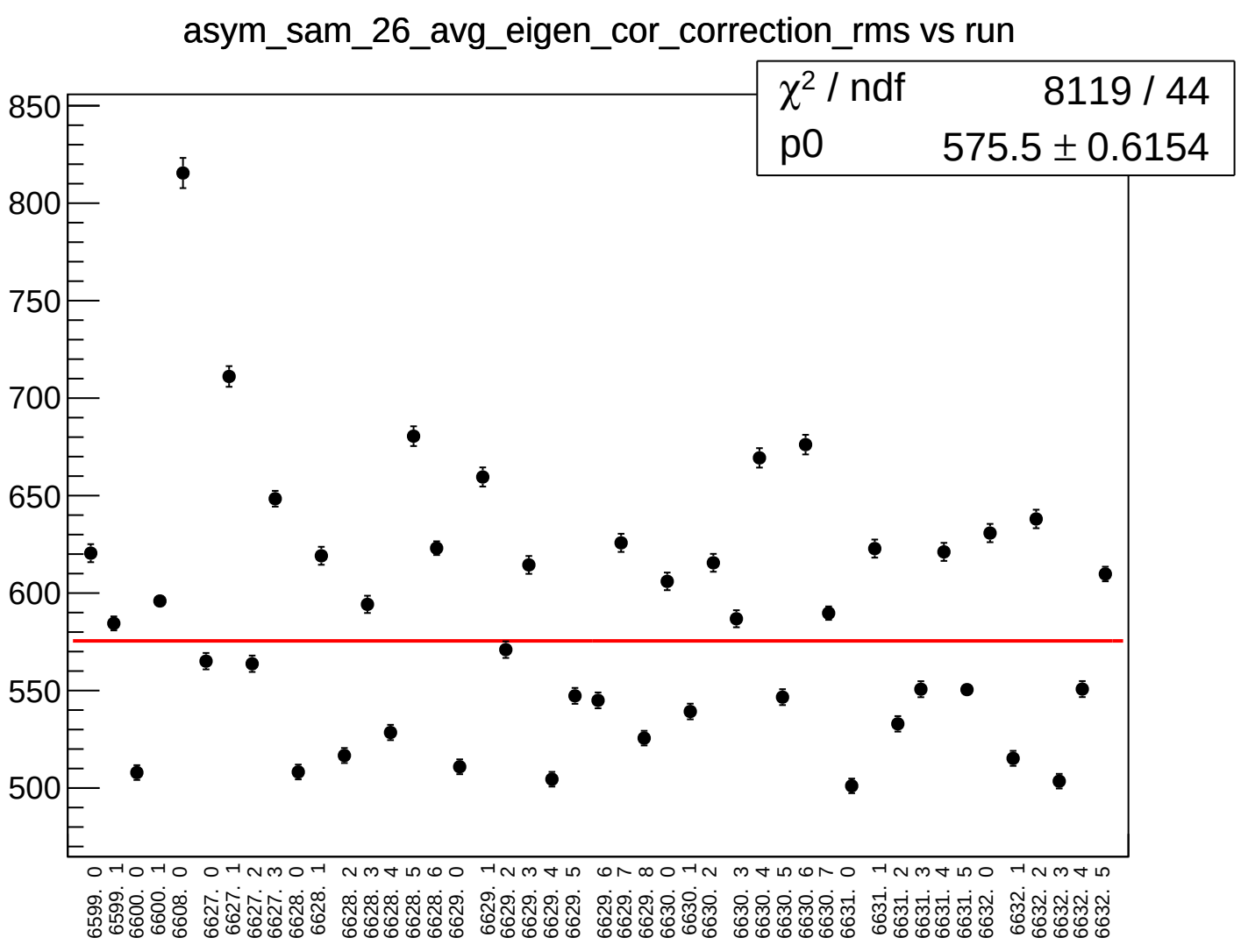
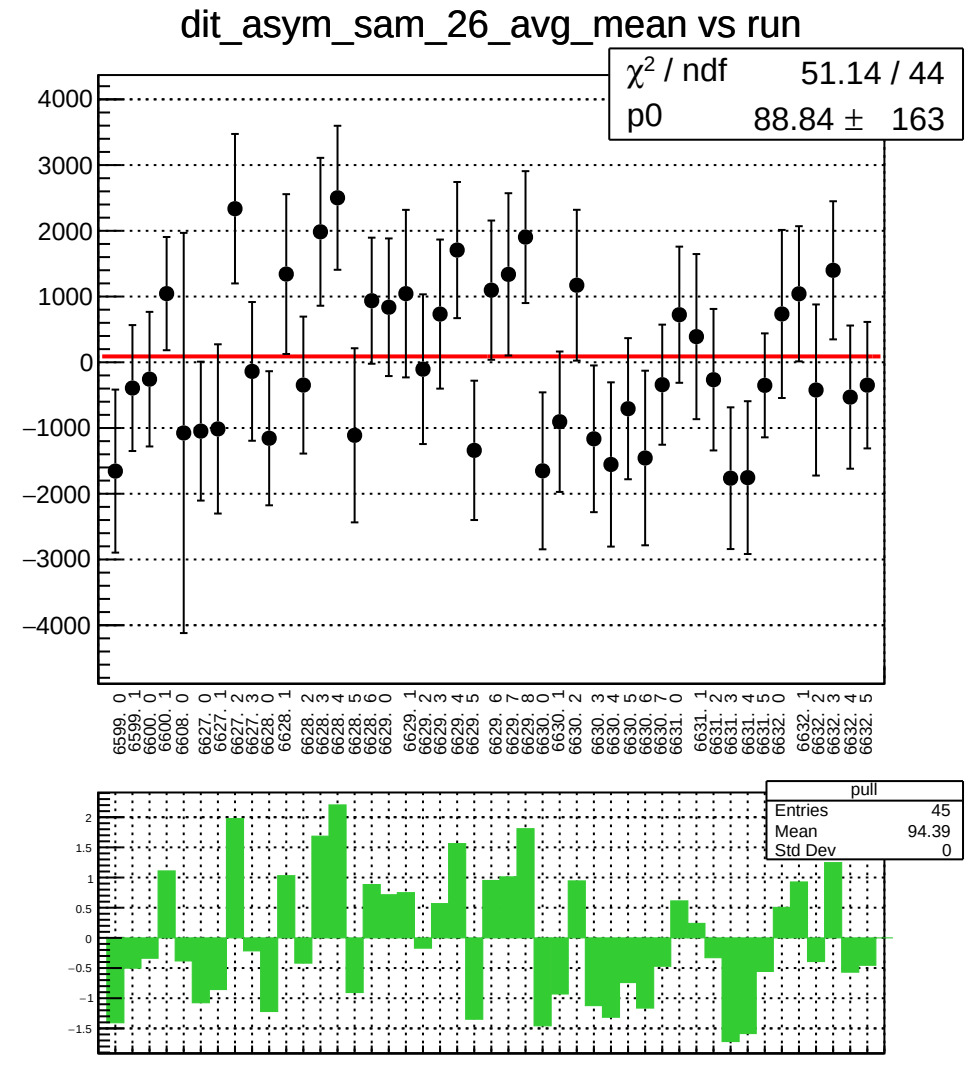
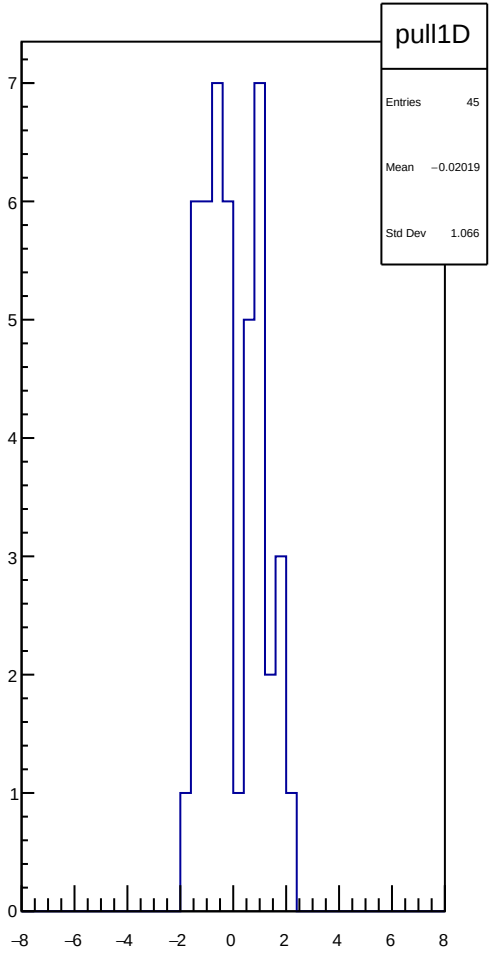
6632. 4
6632. 5

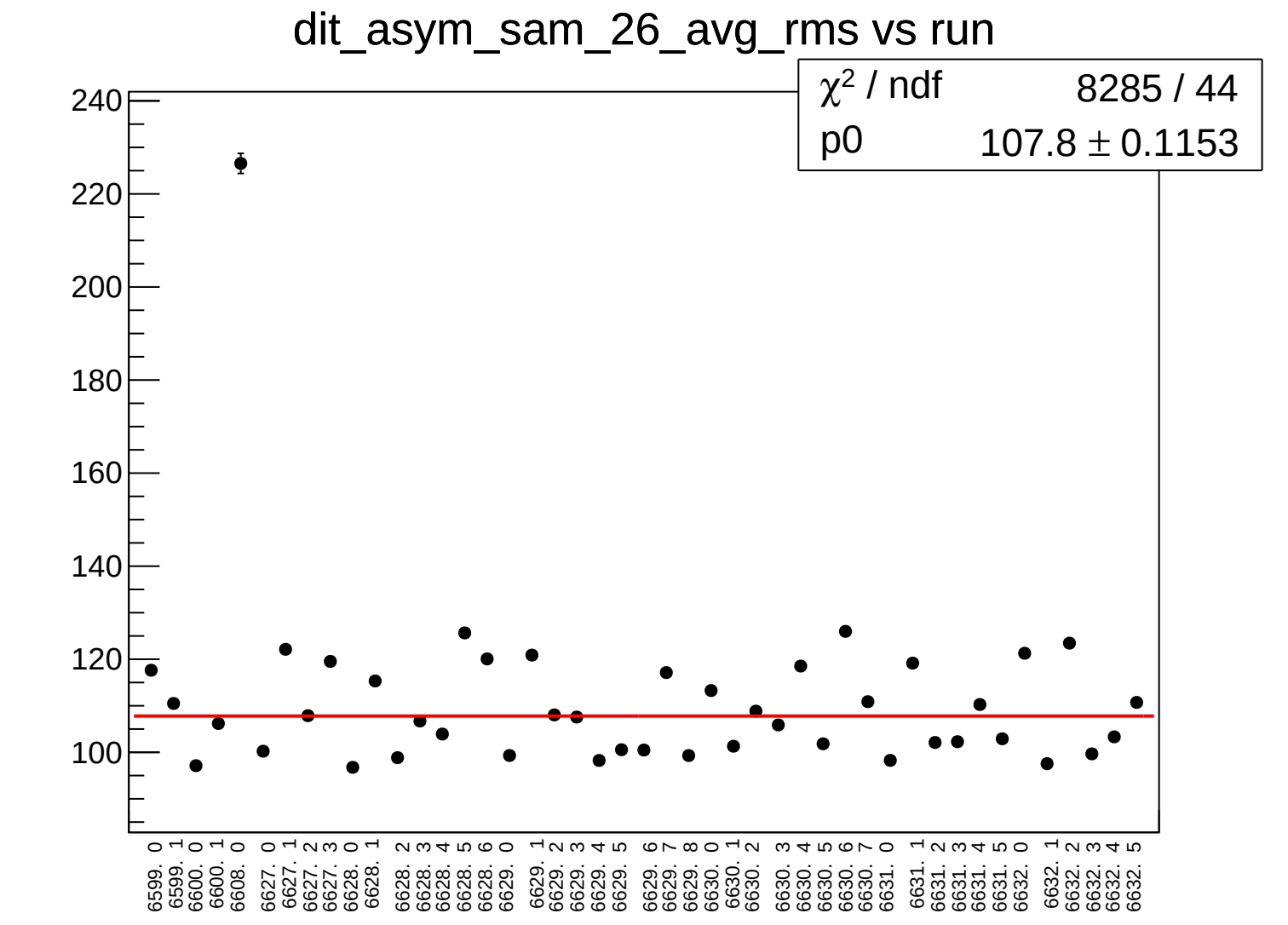

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 31.72 / 44
p0 1452 ± 870.3
pull
Entries 45
Mean −713.3
Std Dev 0

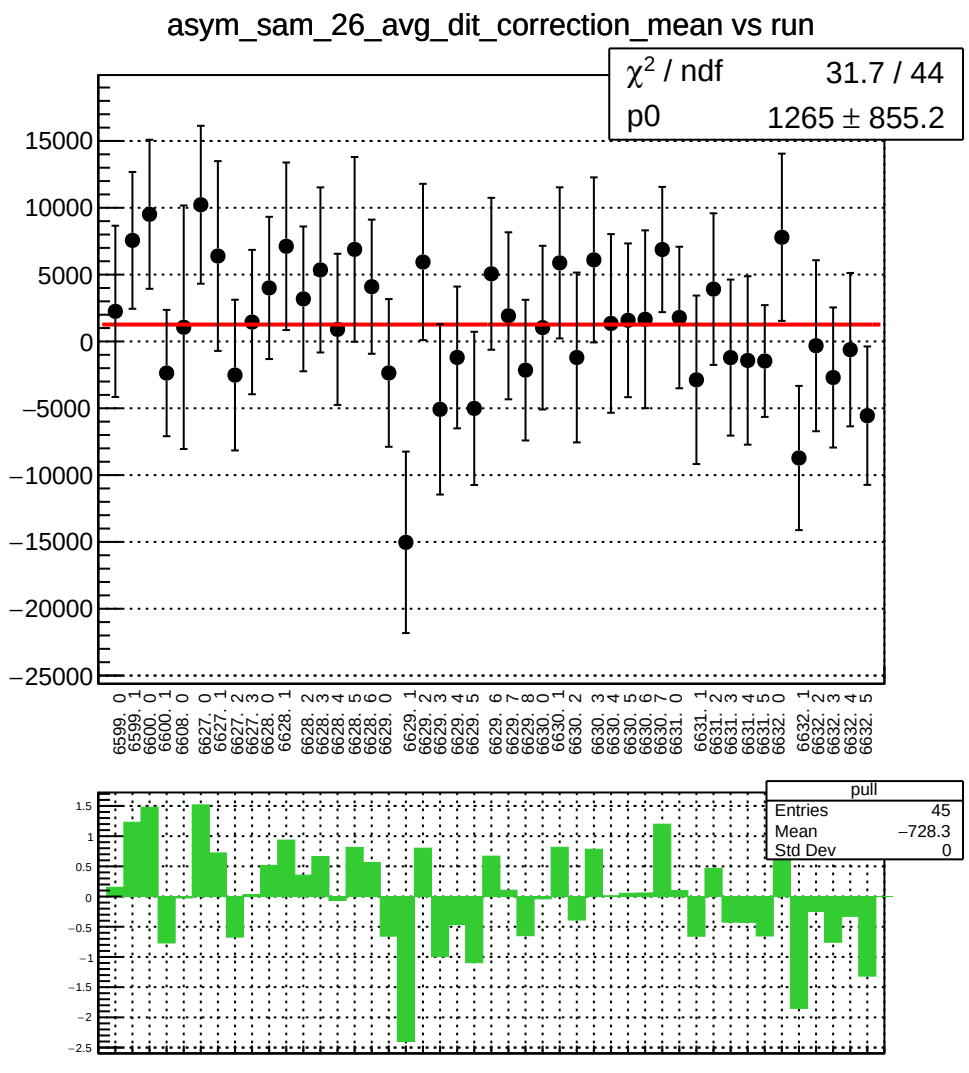

pull1D
Entries 45
Mean 0.005067
Std Dev 0.8396

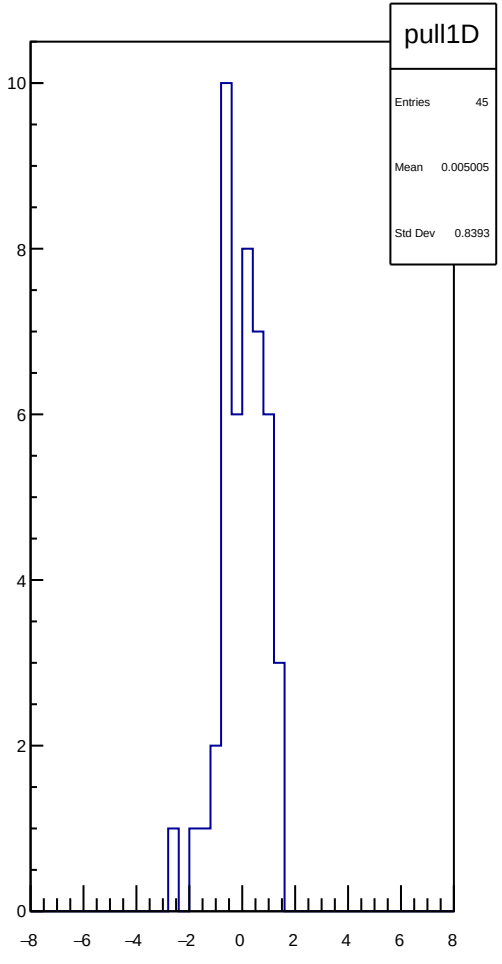

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 8119 / 44
p0 575.5 ± 0.6154
850
800
750
700
650
600
550
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

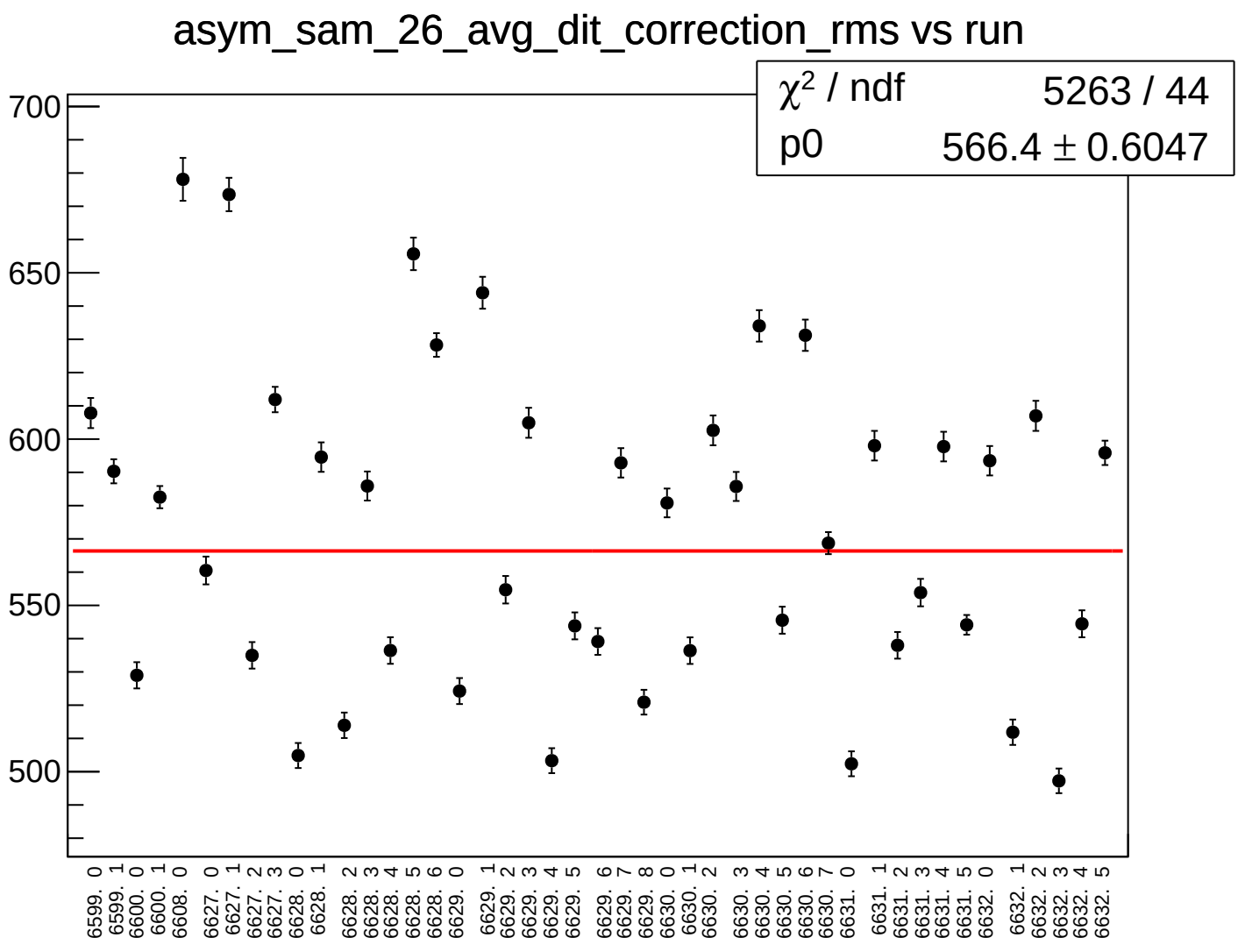

dit_asym_sam_26_avg_mean vs run
χ² / ndf 51.14 / 44
p0 88.84 ± 163
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 94.39
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

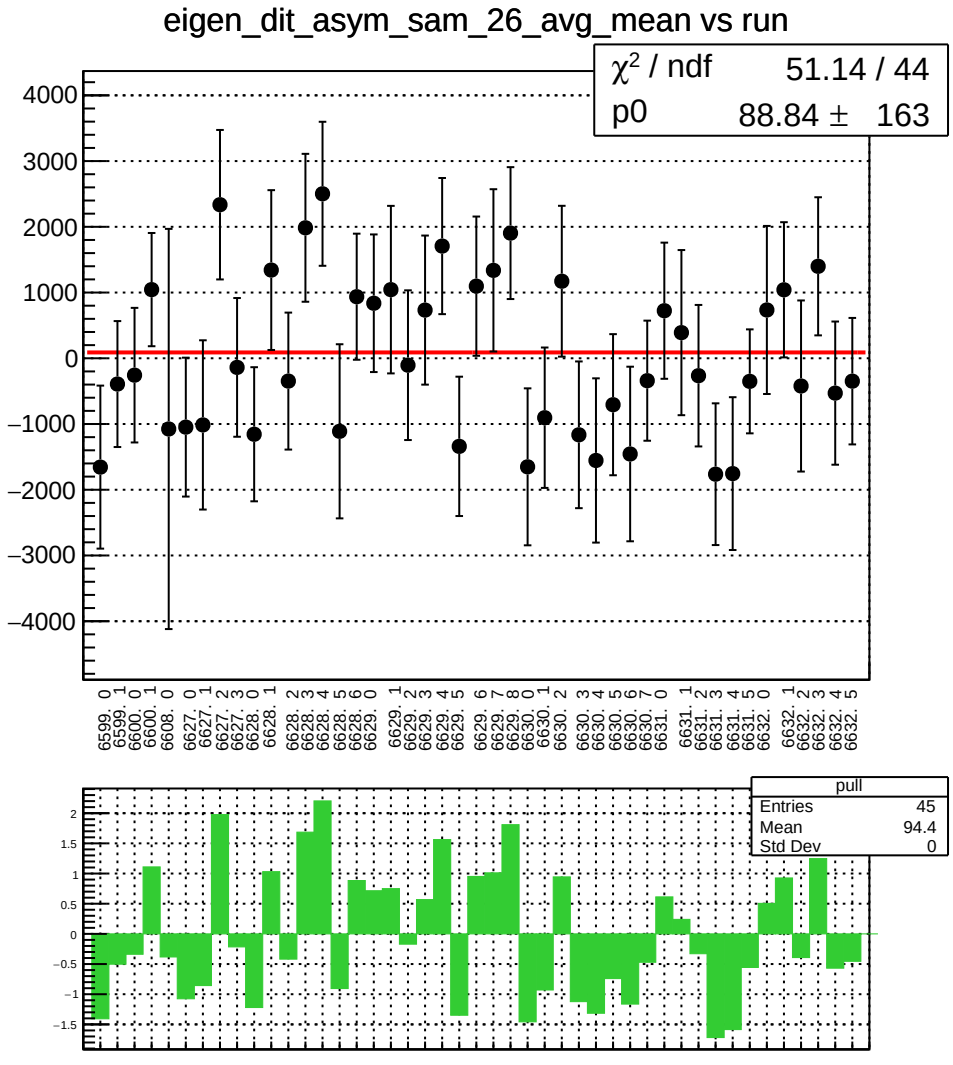

pull1D
Entries 45
Mean −0.02019
Std Dev 1.066
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

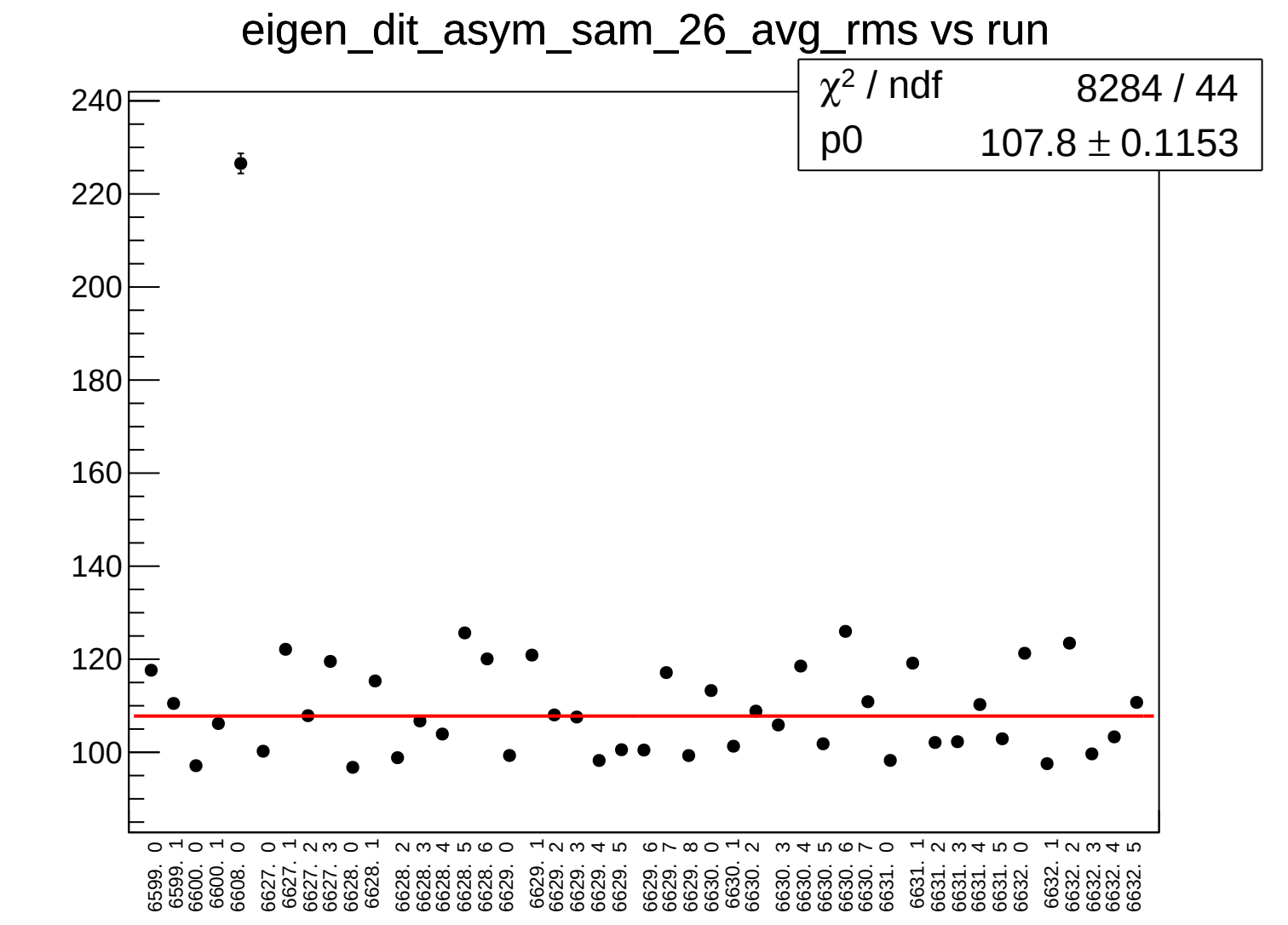

dit_asym_sam_26_avg_rms vs run
χ² / ndf 8285 / 44
p0 107.8 ± 0.1153
240
220
200
180
160
140
120
100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 31.7 / 44
p0 1265 ± 855.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −728.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.005005
Std Dev 0.8393
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 5263 / 44
p0 566.4 ± 0.6047
700
650
600
550
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 51.14 / 44
p0 88.84 ± 163
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 94.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.02019
Std Dev 1.066
7
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 8284 / 44
p0 107.8 ± 0.1153
240
220
200
180
160
140
120
100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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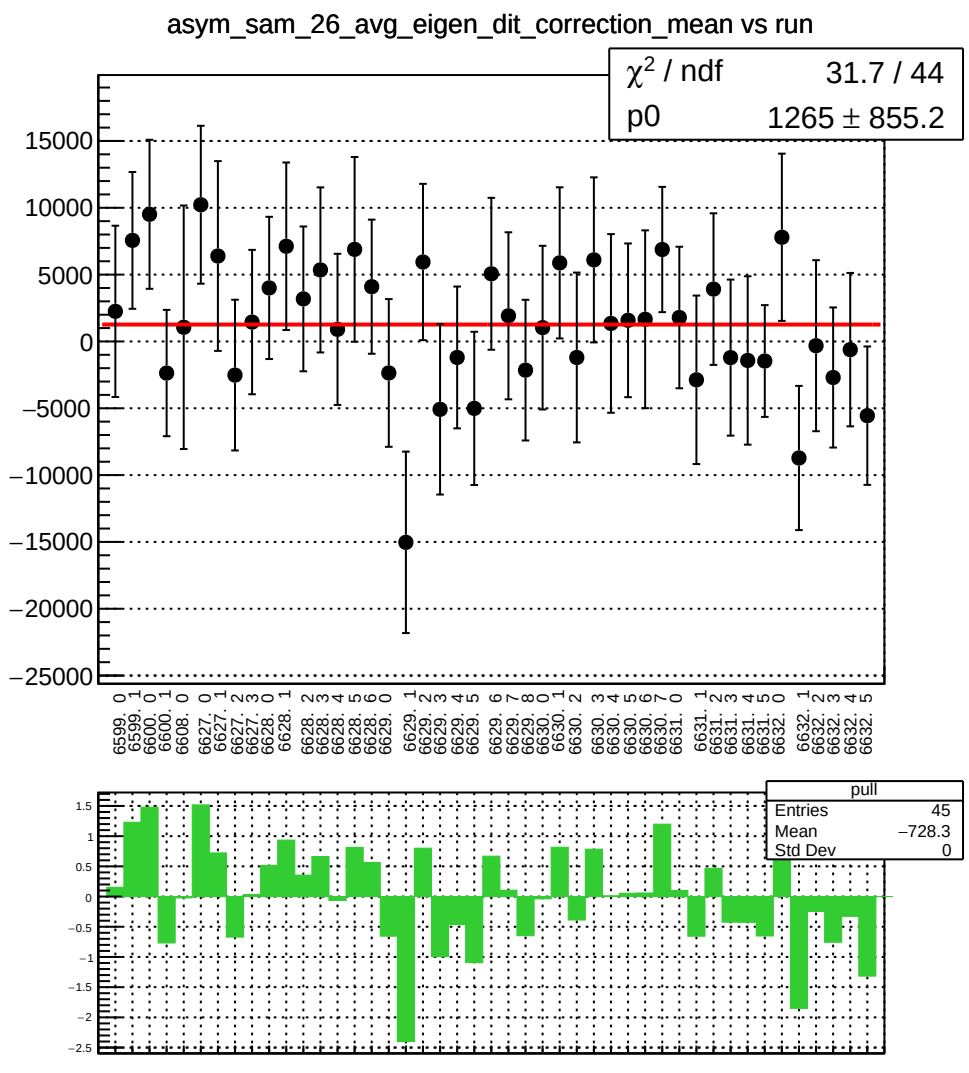
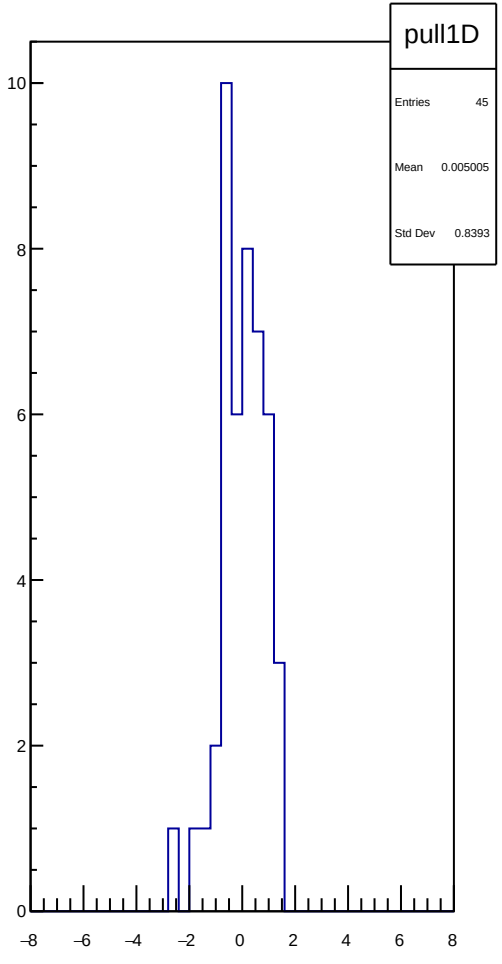
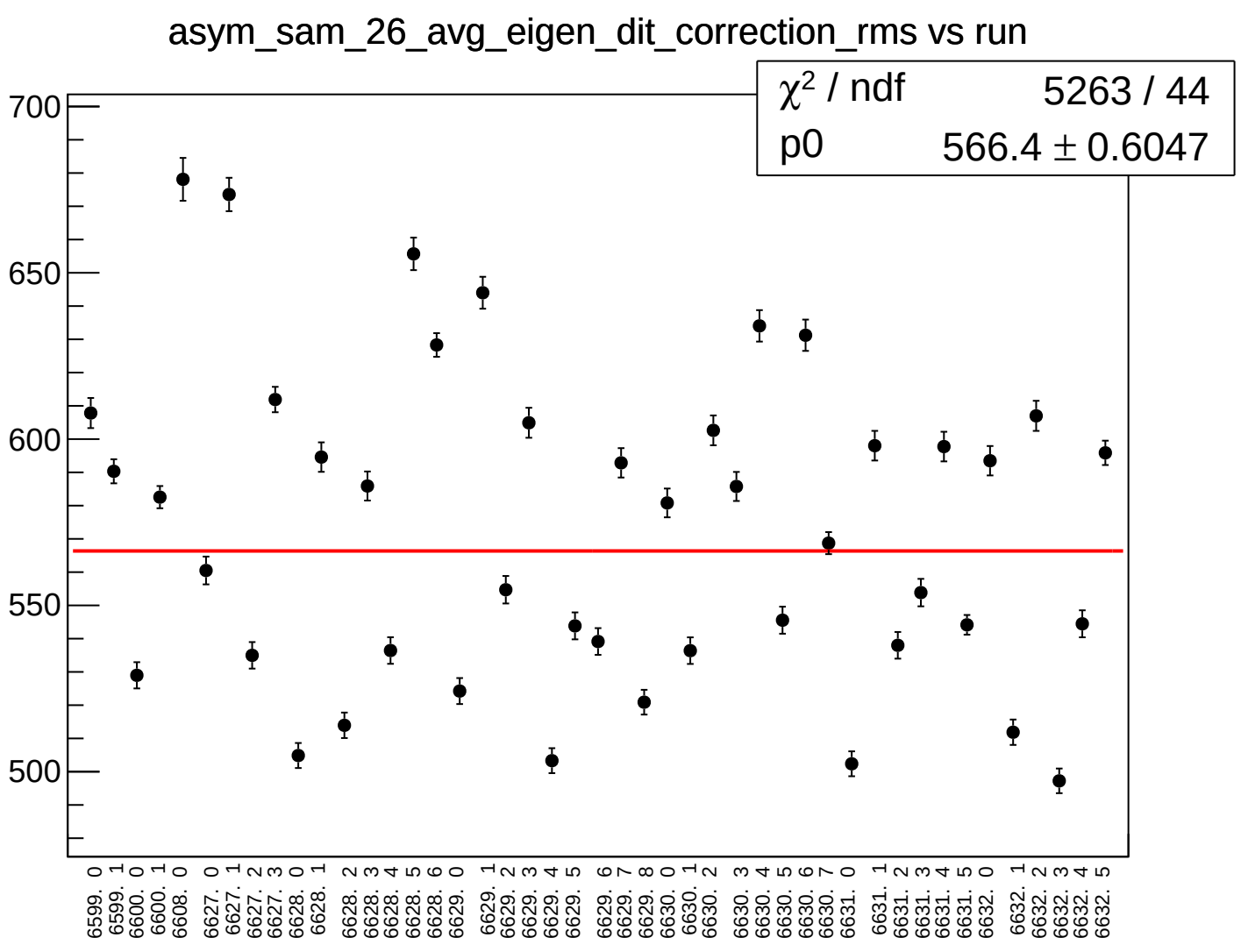
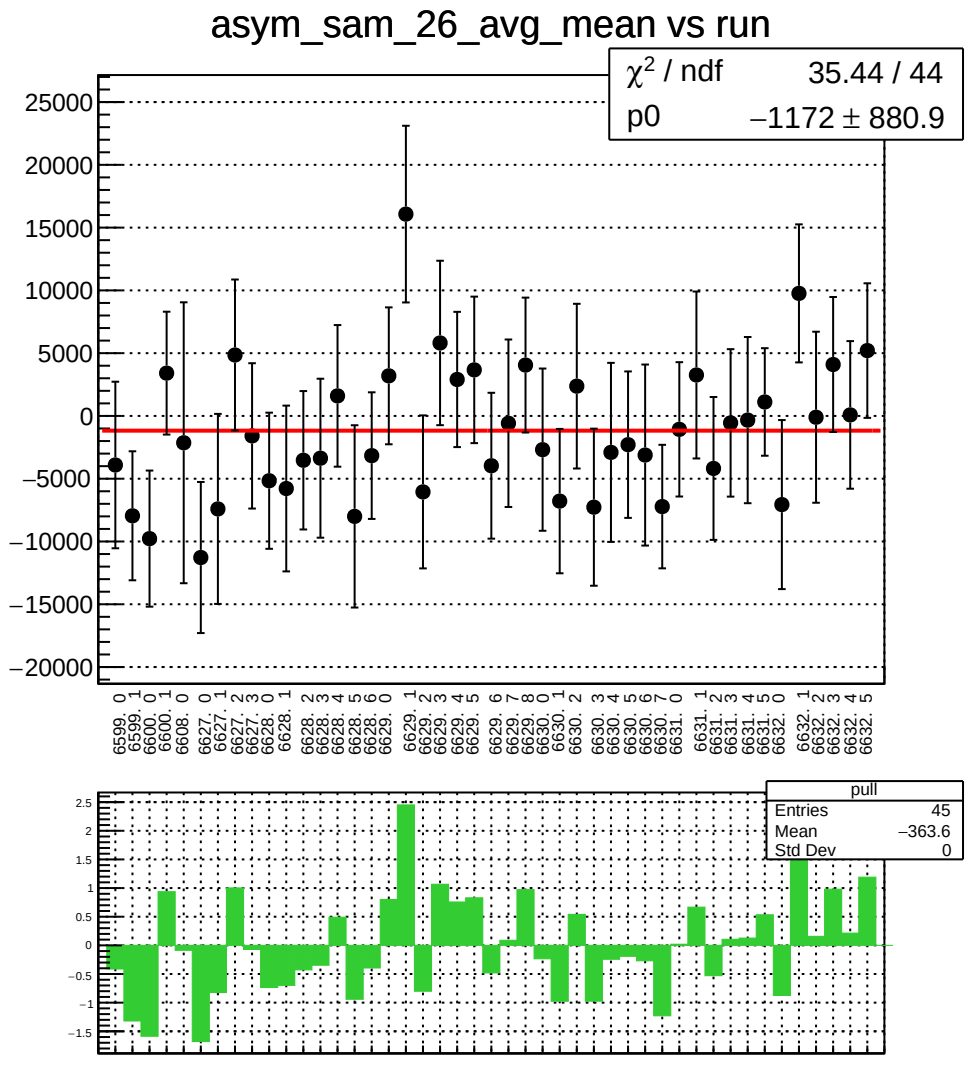
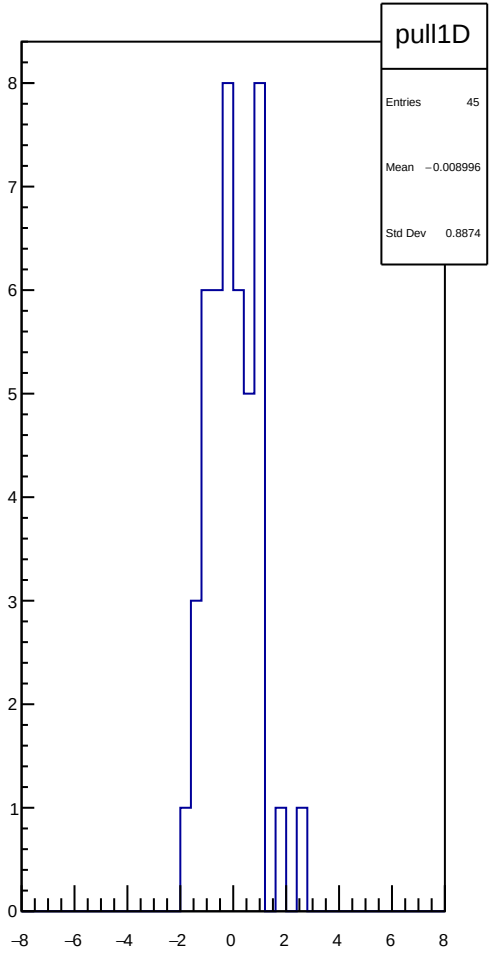
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

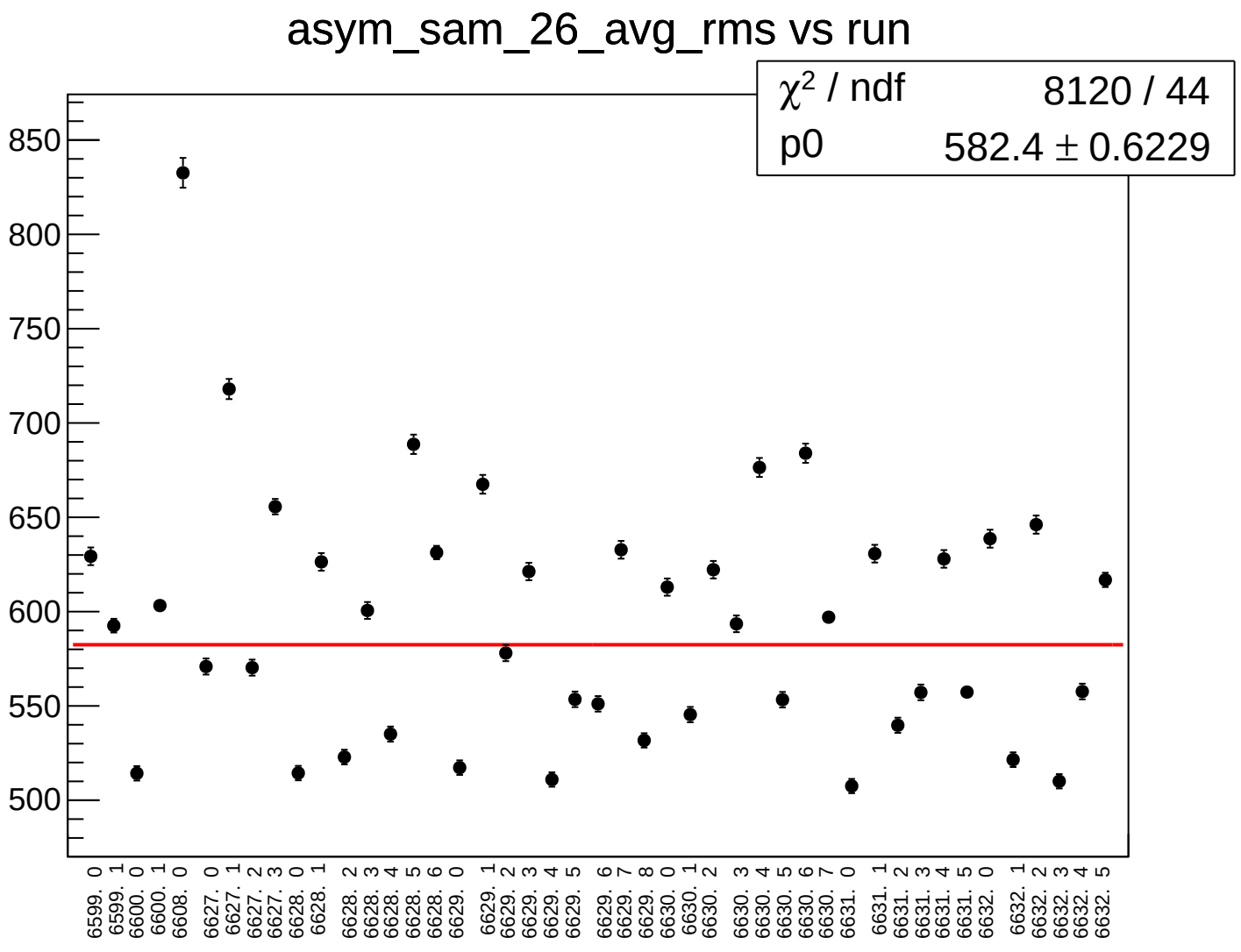

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 31.7 / 44
p0 1265 ± 855.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −728.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

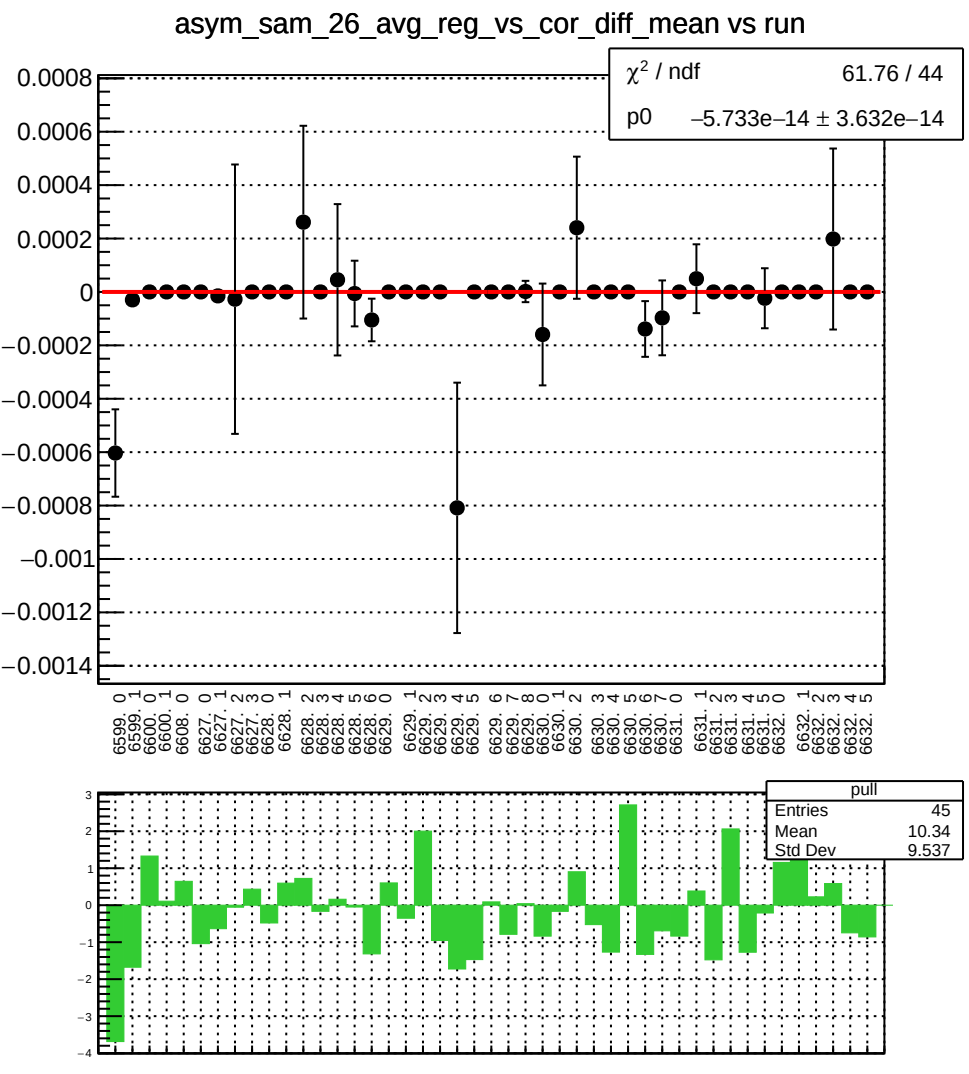

pull1D
Entries 45
Mean 0.005005
Std Dev 0.8393
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

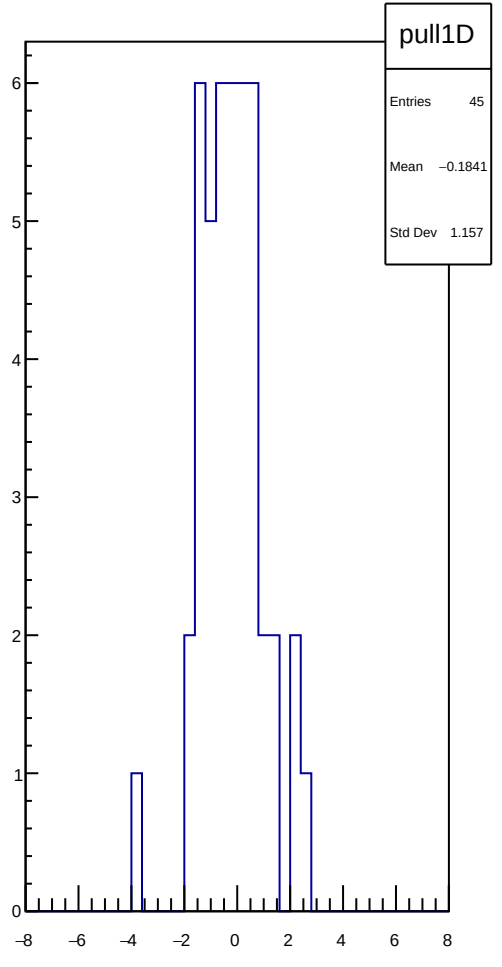

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 5263 / 44
p0 566.4 ± 0.6047
700
650
600
550
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

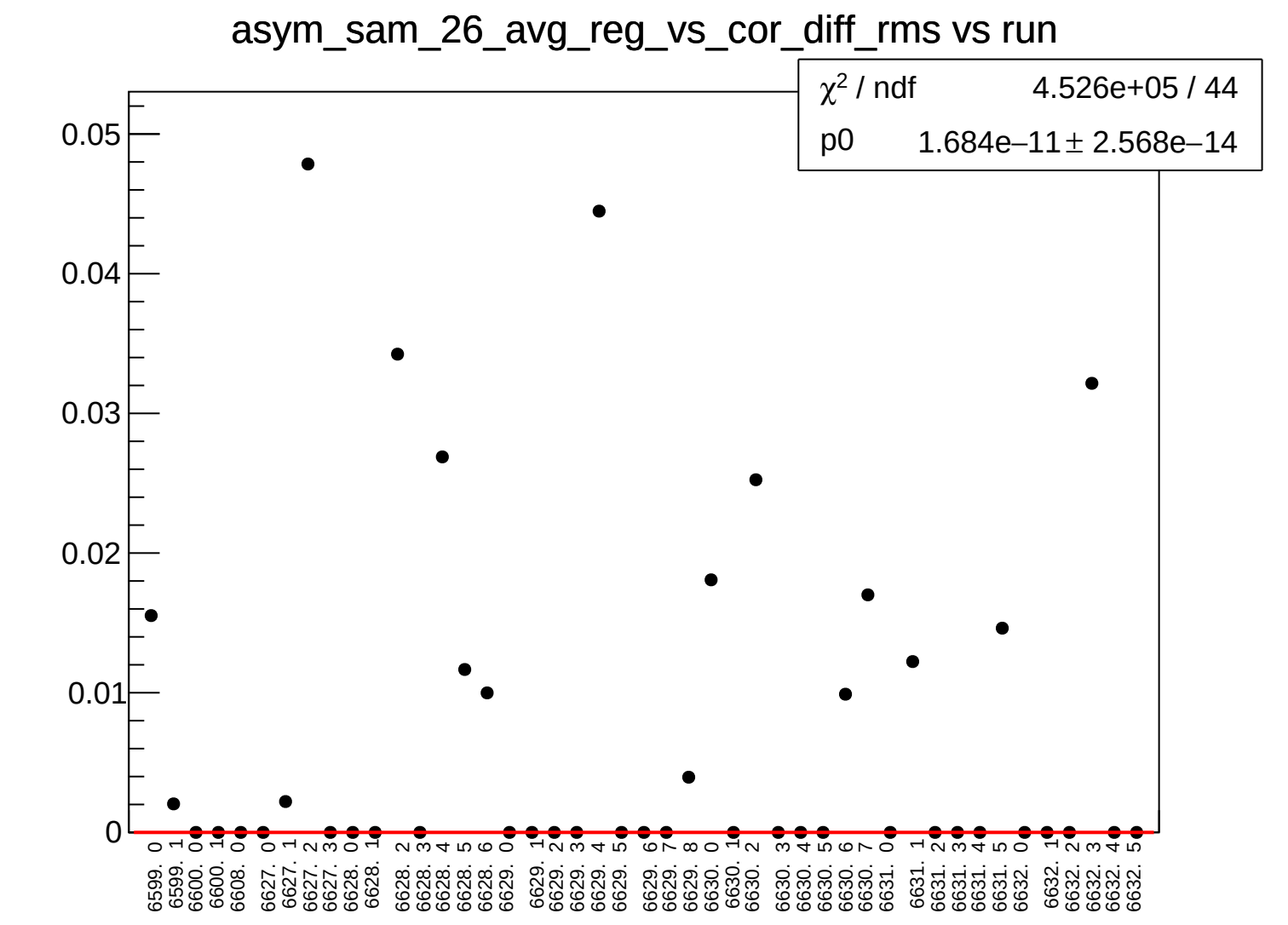

asym_sam_26_avg_mean vs run
χ² / ndf 35.44 / 44
p0 −1172 ± 880.9
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −363.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.008996
Std Dev 0.8874
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_avg_rms vs run
χ² / ndf 8120 / 44
p0 582.4 ± 0.6229
850
800
750
700
650
600
550
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 61.76 / 44
p0 −5.733e−14 ± 3.632e−14
pull
Entries 45
Mean 10.34
Std Dev 9.537


pull1D
Entries 45
Mean −0.1841
Std Dev 1.157


asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.526e+05 / 44
p0 1.684e−11 ± 2.568e−14
0.05
0.04
0.03
0.02
0.01
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
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6629. 3
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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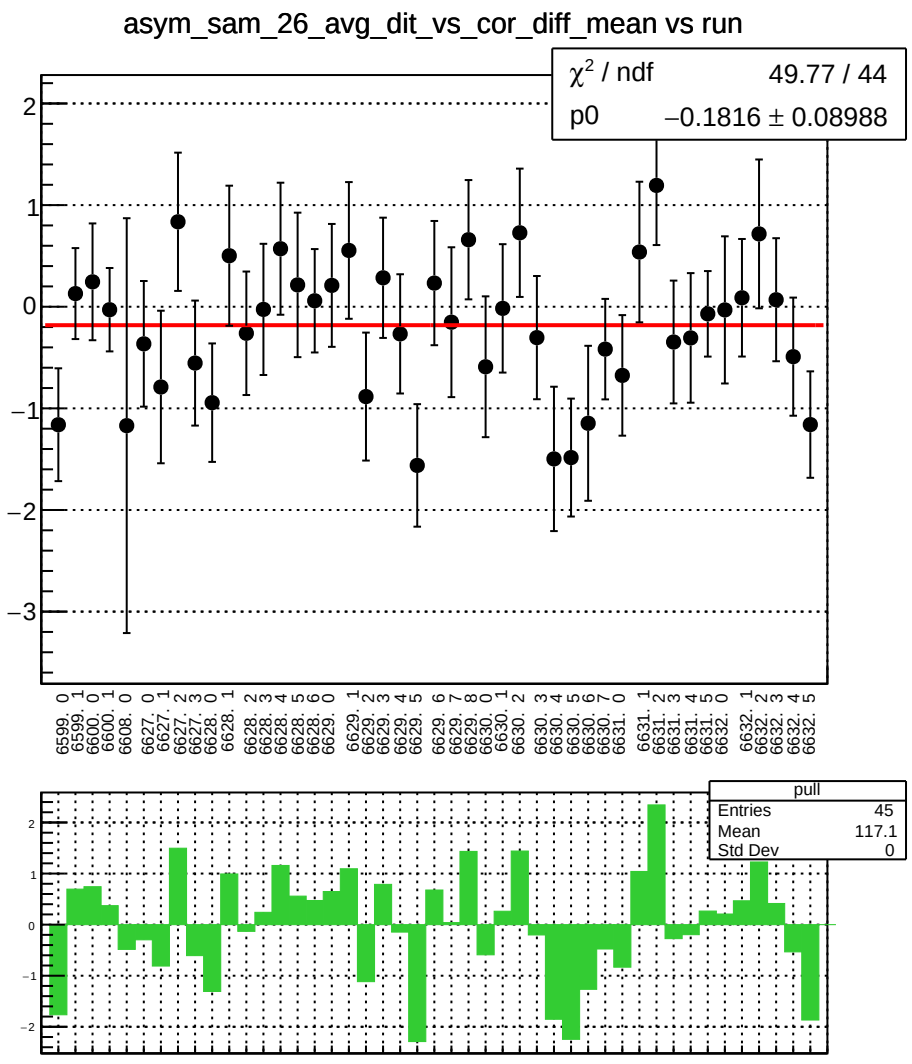
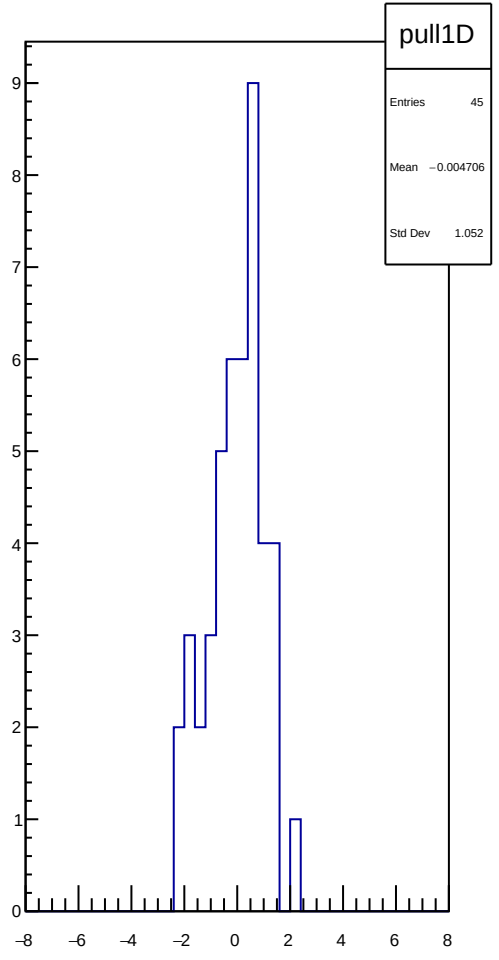
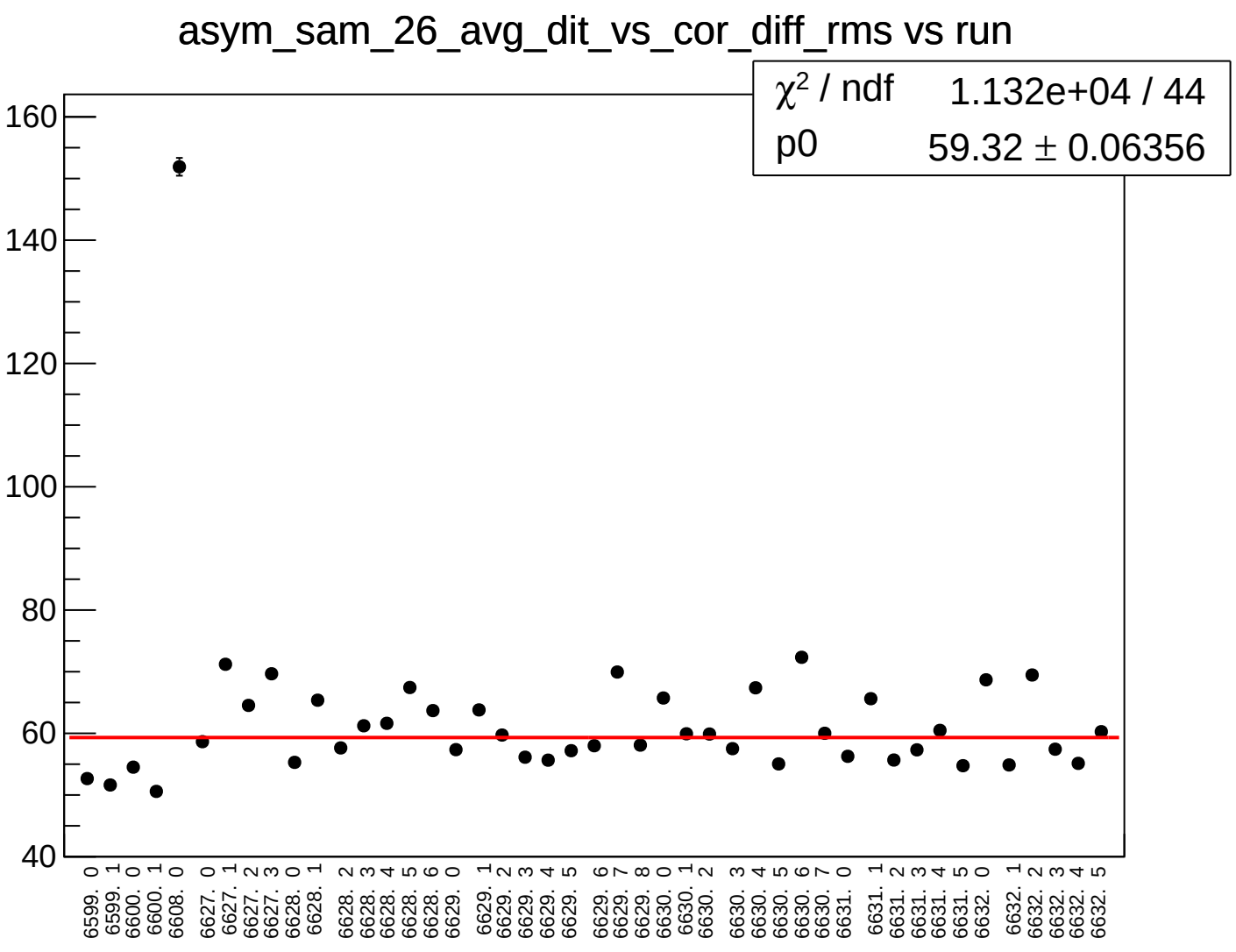
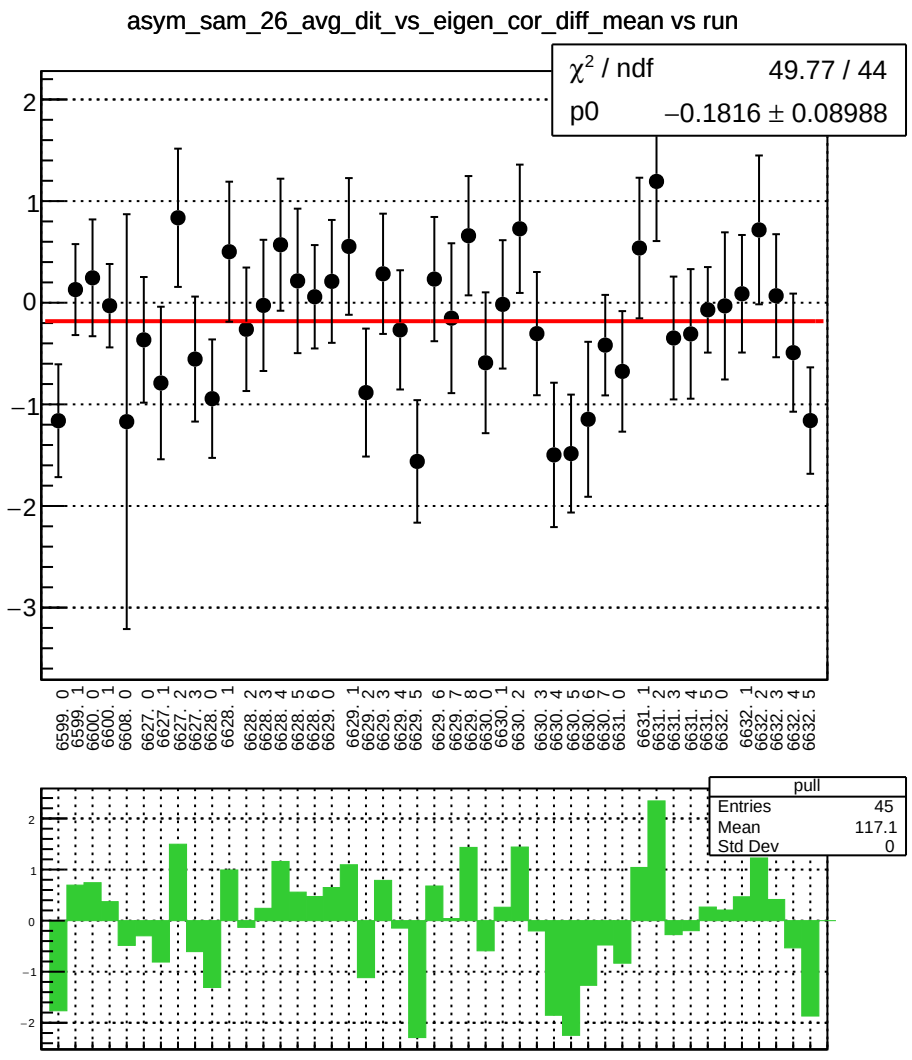
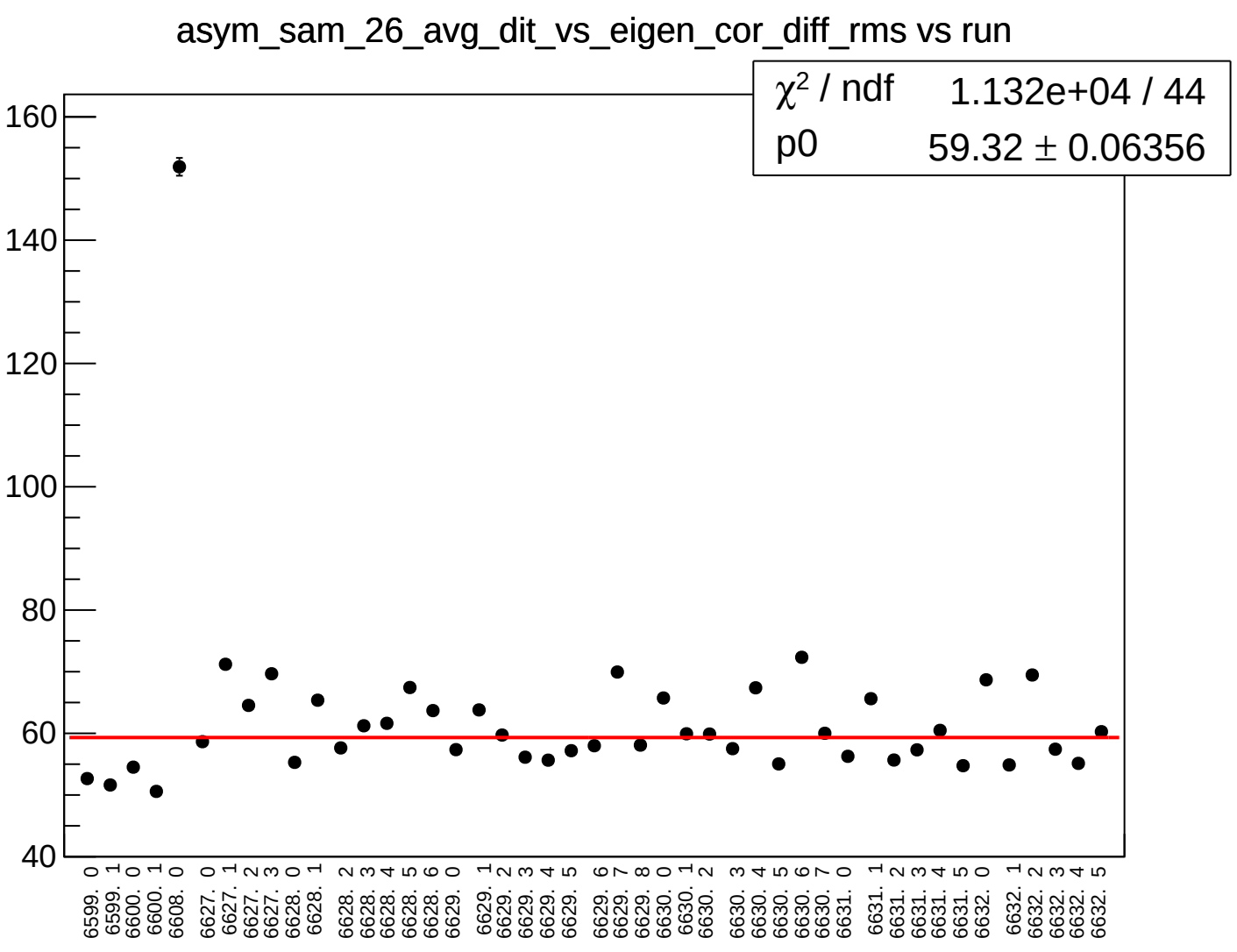
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

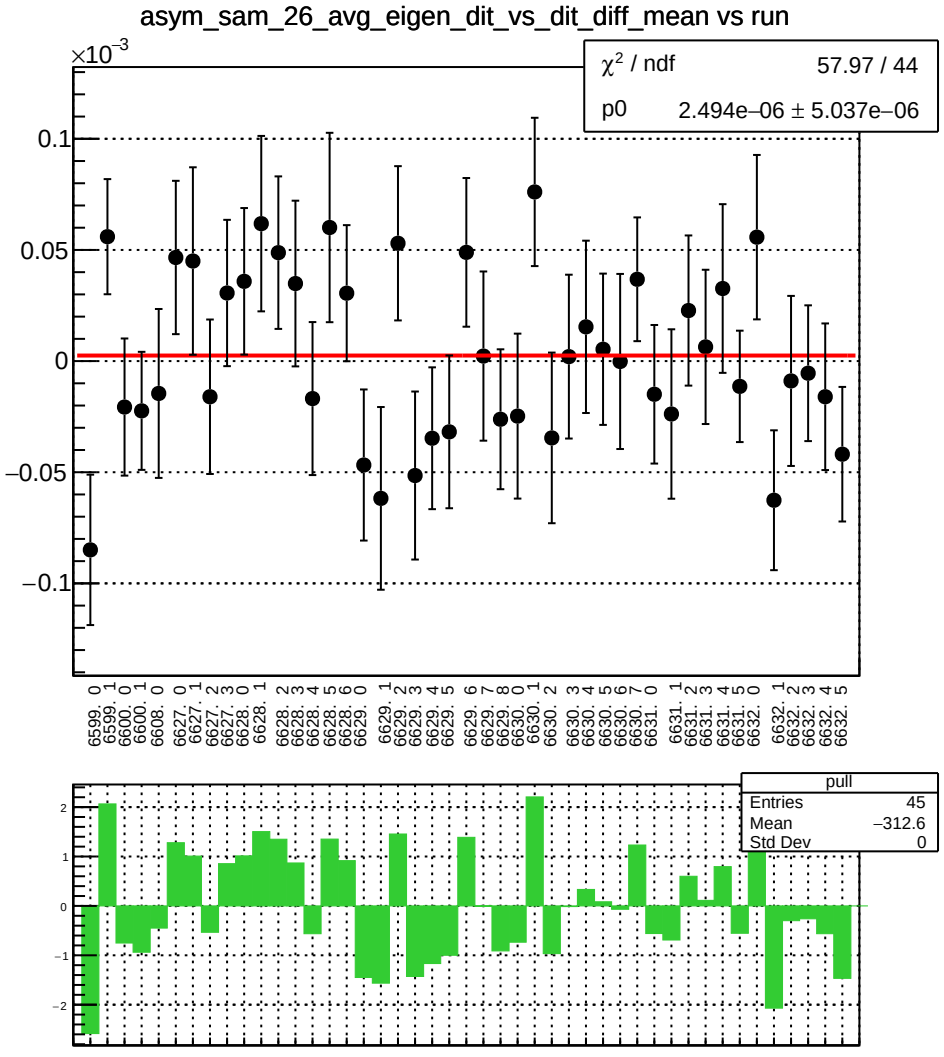

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 49.77 / 44
p0 −0.1816 ± 0.08988
pull
Entries 45
Mean 117.1
Std Dev 0

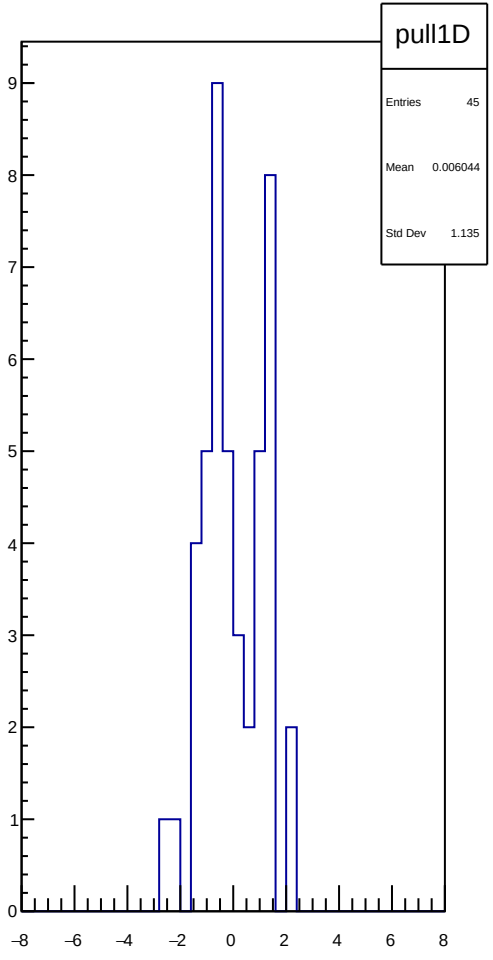

pull1D
Entries 45
Mean −0.004706
Std Dev 1.052

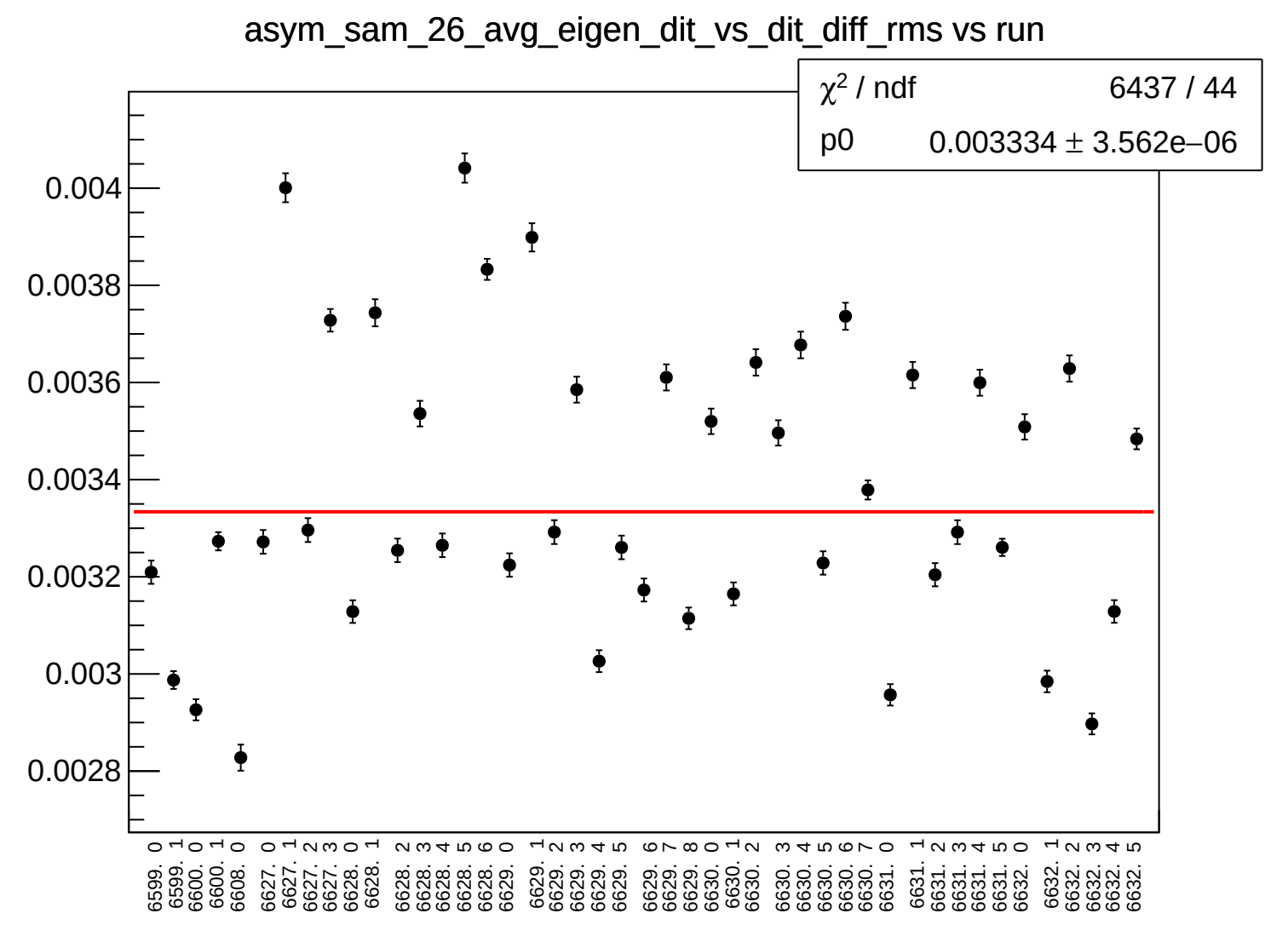

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.132e+04 / 44
p0 59.32 ± 0.06356
160
140
120
100
80
60
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

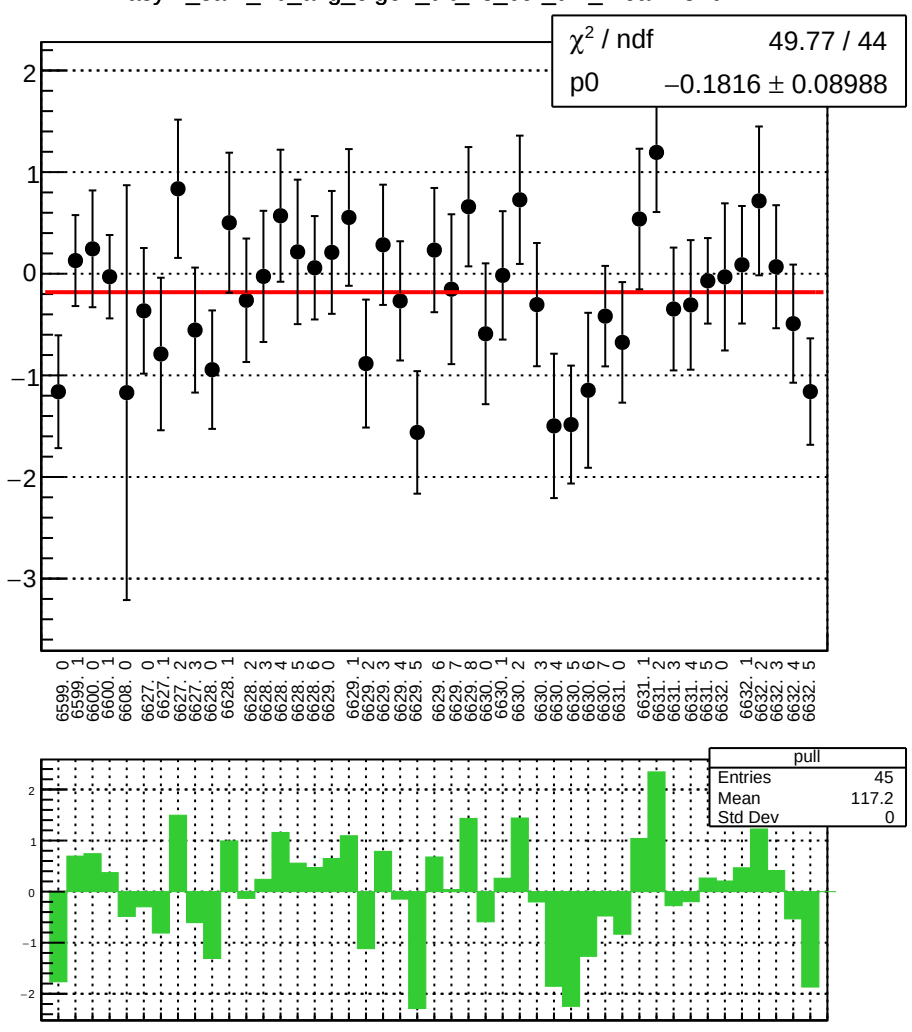

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.77 / 44
p0 −0.1816 ± 0.08988
pull
Entries 45
Mean 117.1
Std Dev 0
pull1D
Entries 45
Mean −0.004706
Std Dev 1.052

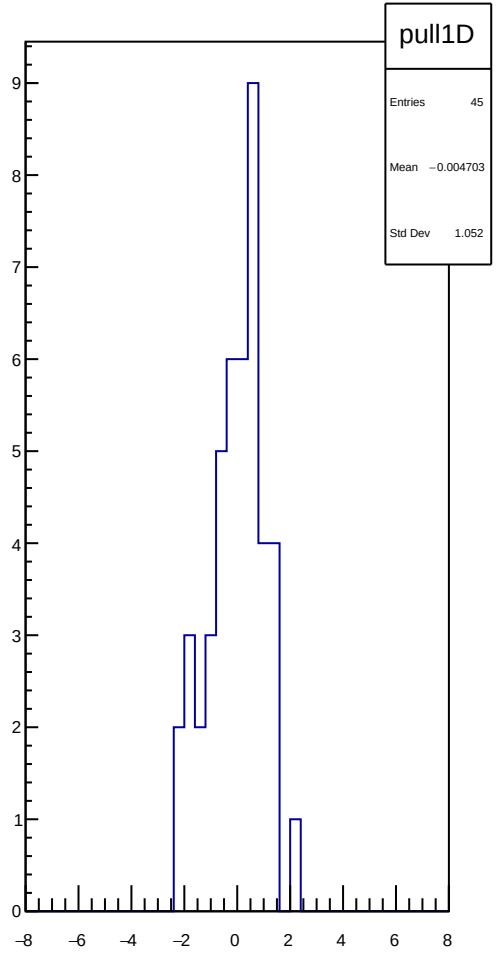

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.132e+04 / 44
p0 59.32 ± 0.06356
160
140
120
100
80
60
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

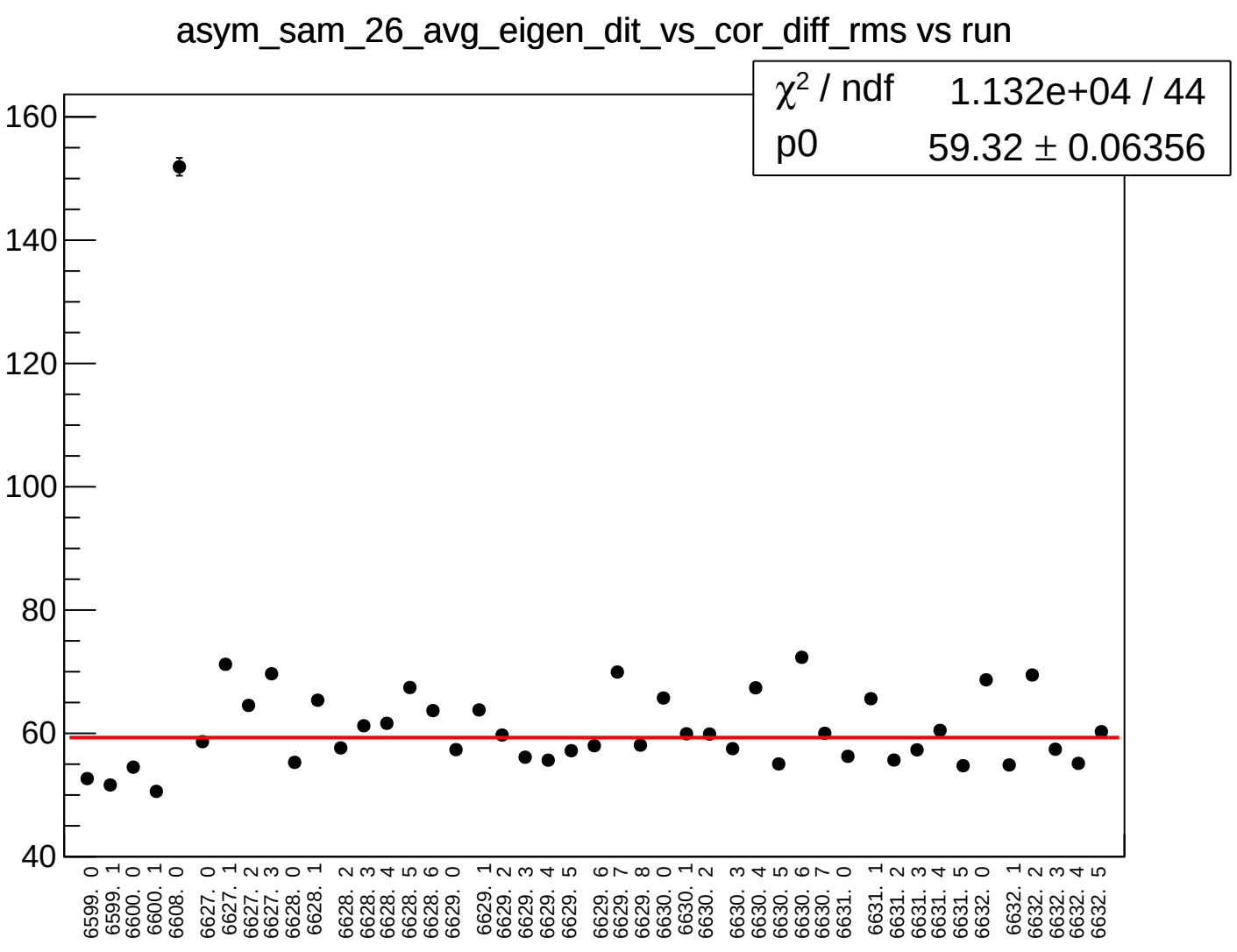

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 57.97 / 44
p0 2.494e−06 ± 5.037e−06
0.1
0.05
0
−0.05
−0.1
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −312.6
Std Dev 0
2
1
0
−1
−2

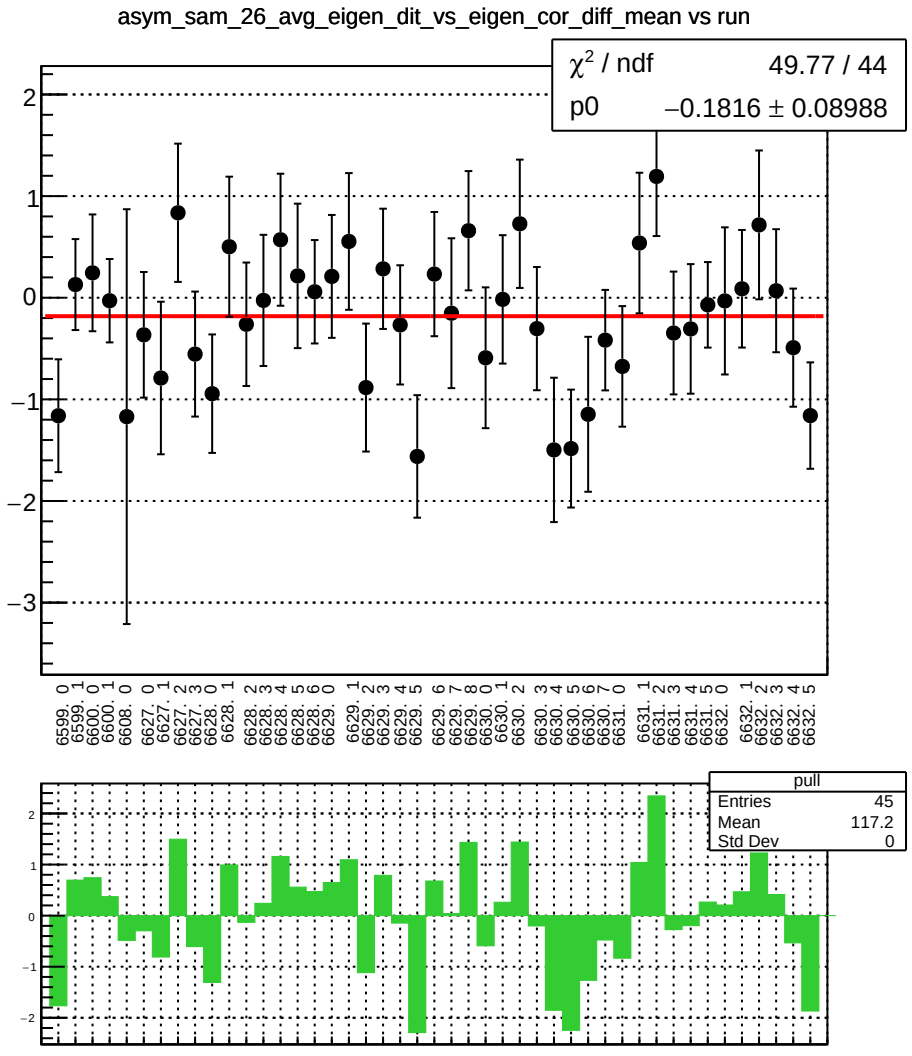

pull1D
Entries 45
Mean 0.006044
Std Dev 1.135
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

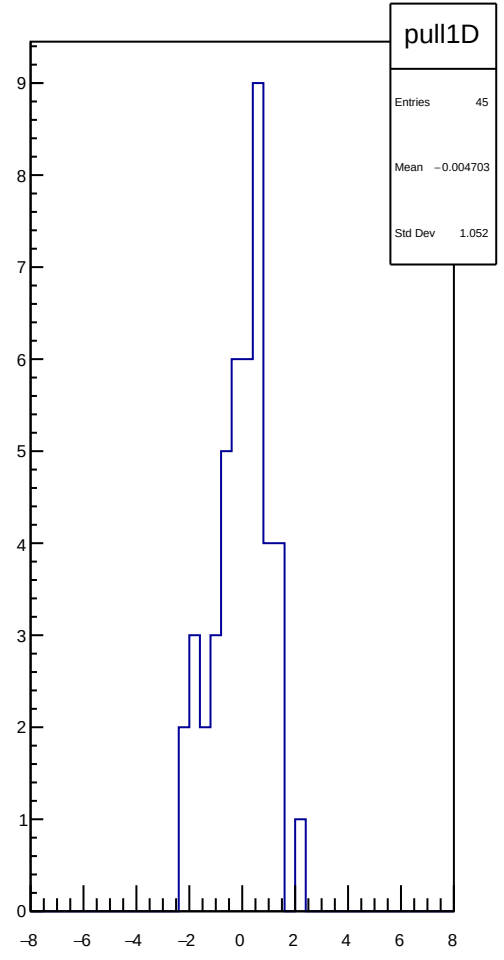

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6437 / 44
p0 0.003334 ± 3.562e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

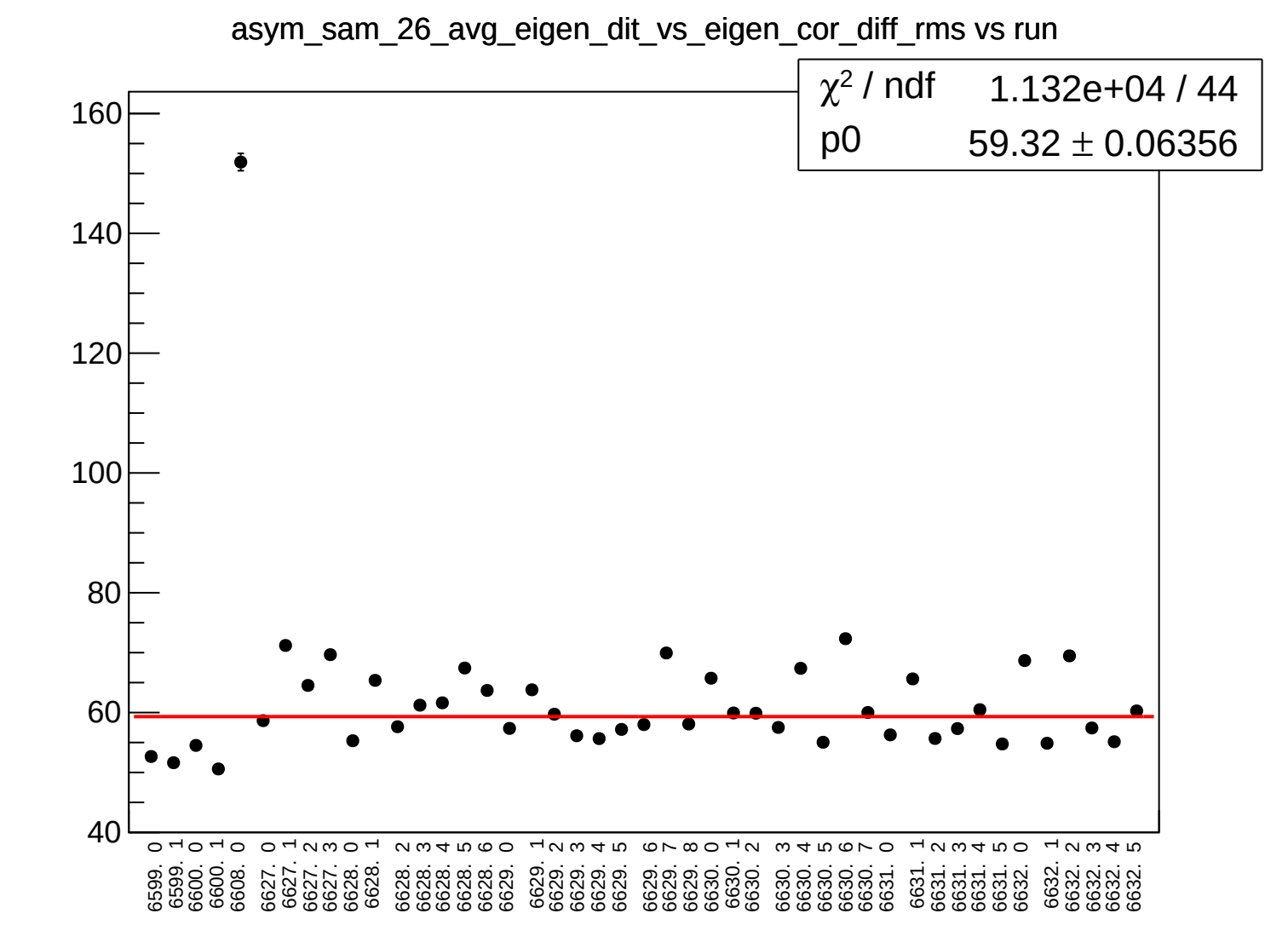

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 49.77 / 44
p0 −0.1816 ± 0.08988
pull
Entries 45
Mean 117.2
Std Dev 0

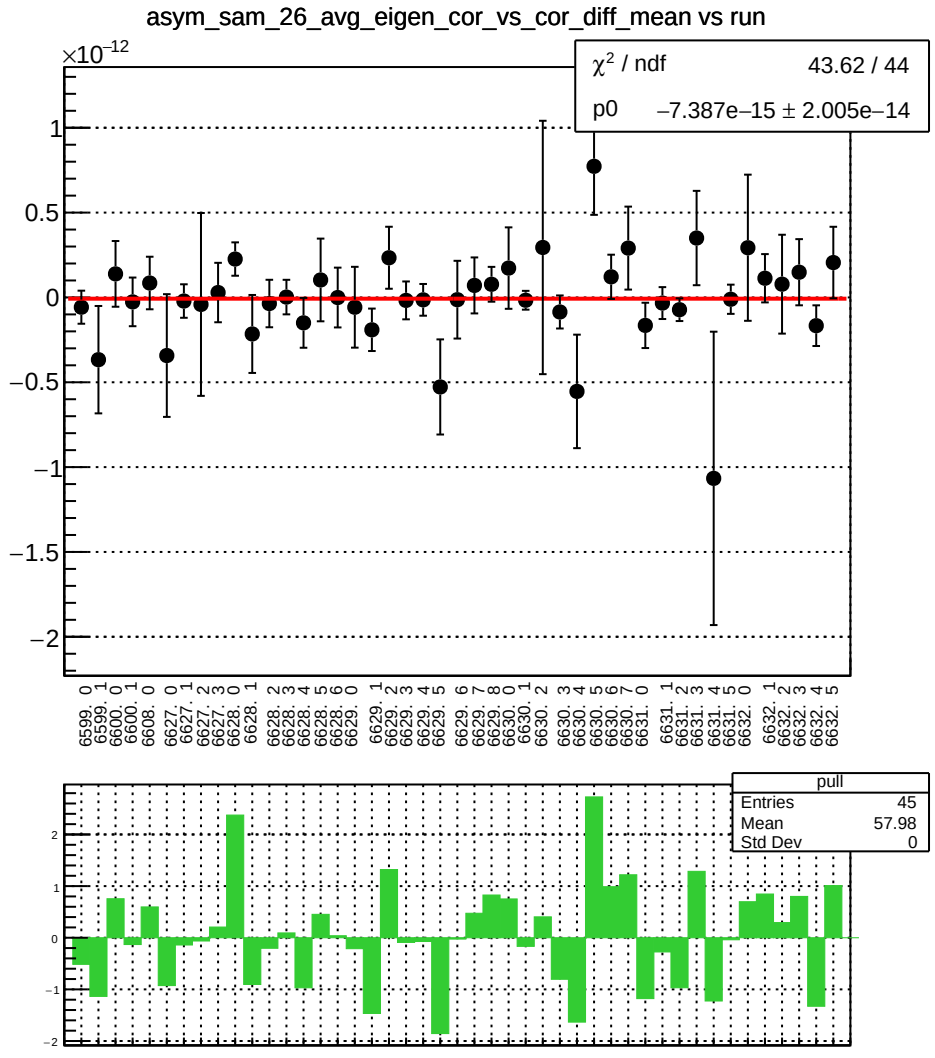

pull1D
Entries 45
Mean −0.004703
Std Dev 1.052

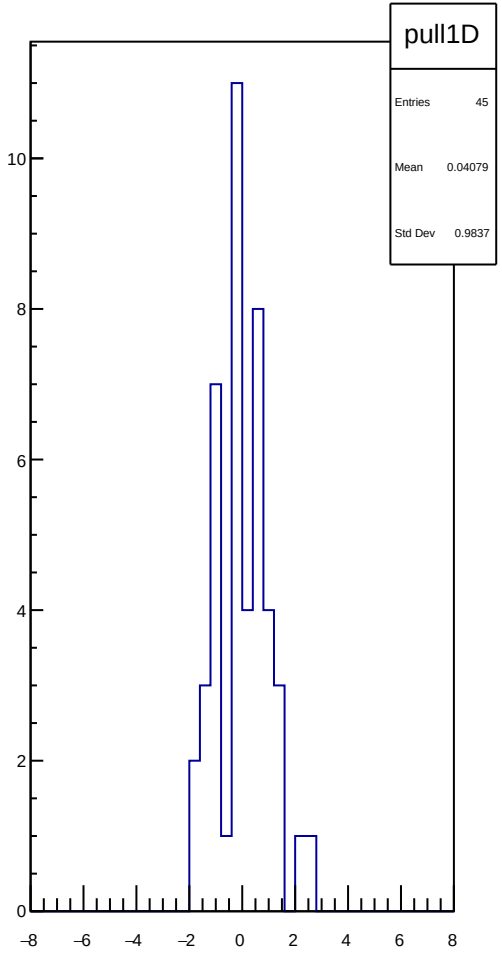

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.132e+04 / 44
p0 59.32 ± 0.06356
160
140
120
100
80
60
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

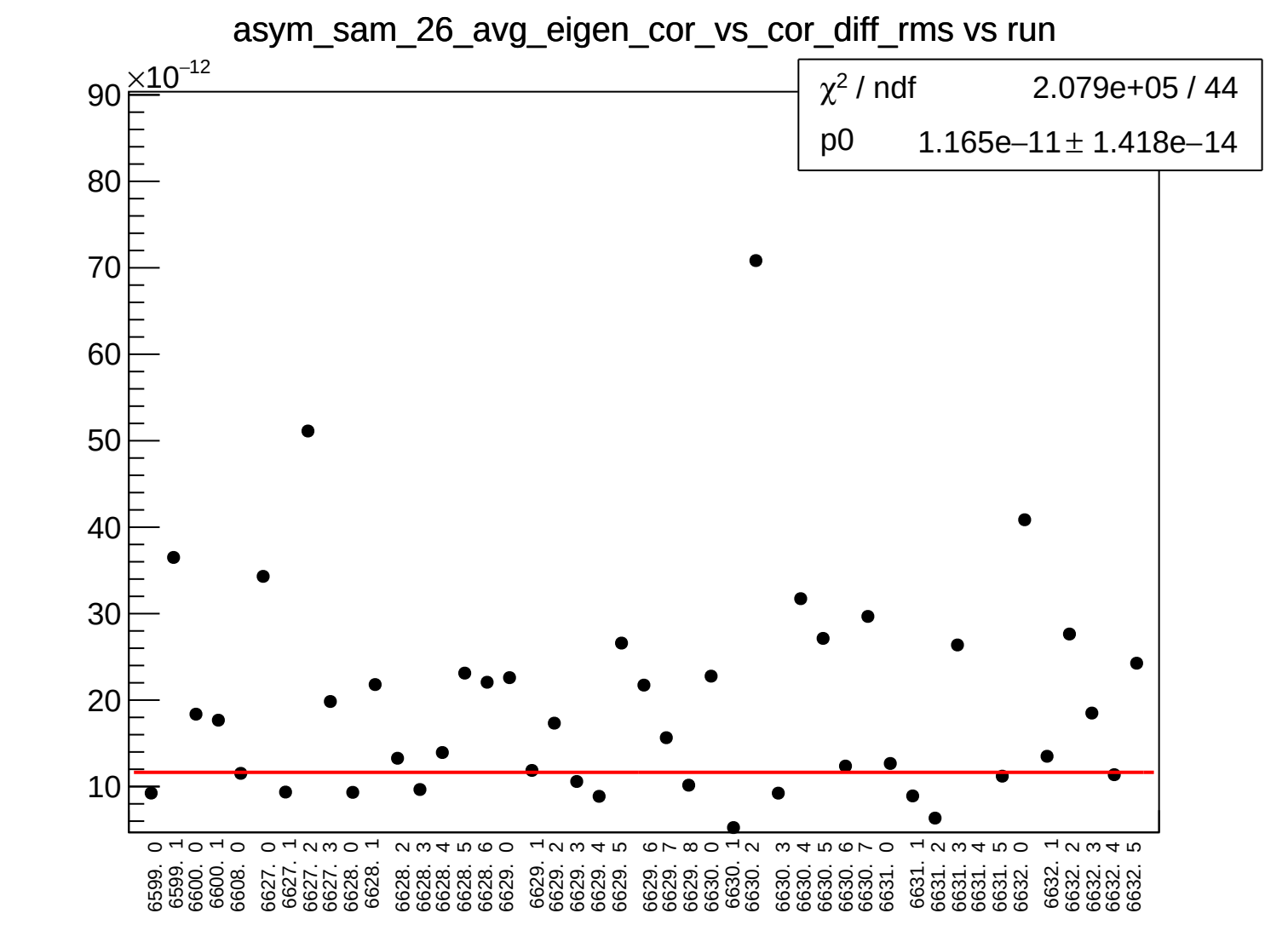

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.77 / 44
p0 −0.1816 ± 0.08988
pull
Entries 45
Mean 117.2
Std Dev 0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

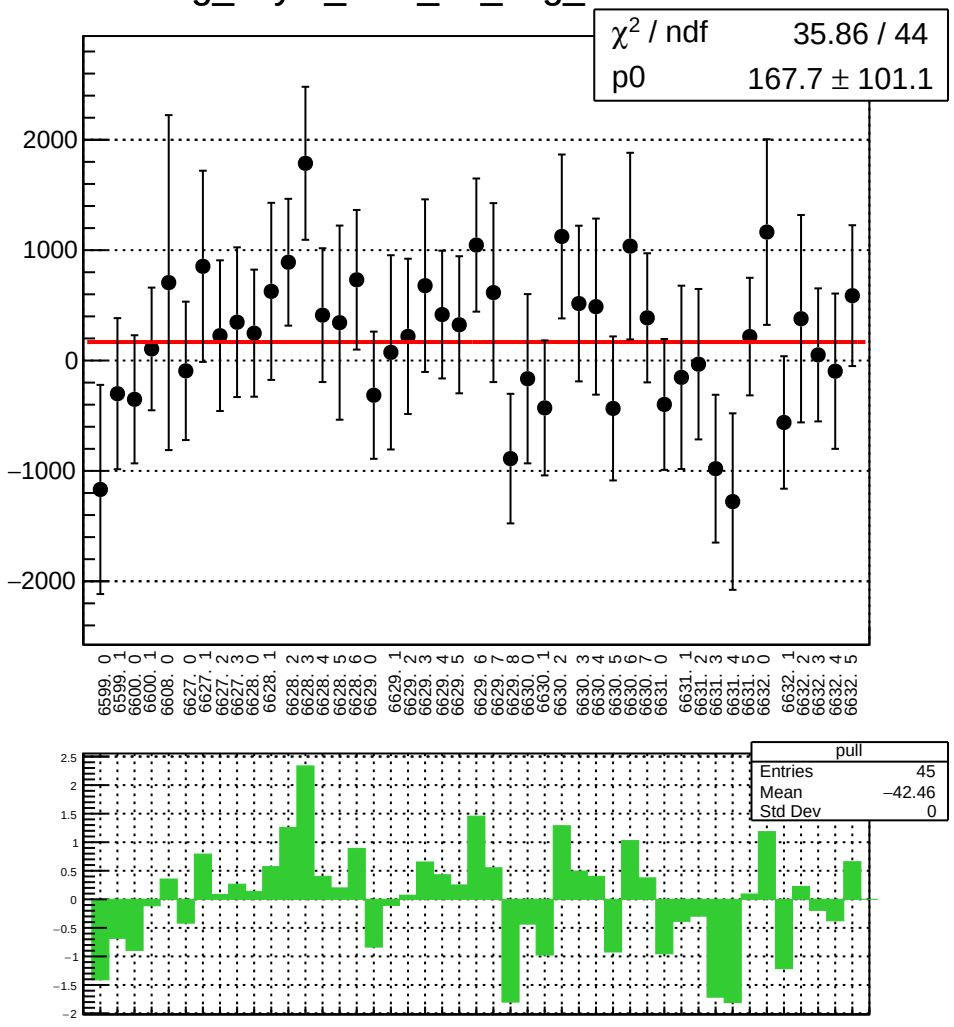

pull1D
Entries 45
Mean −0.004703
Std Dev 1.052

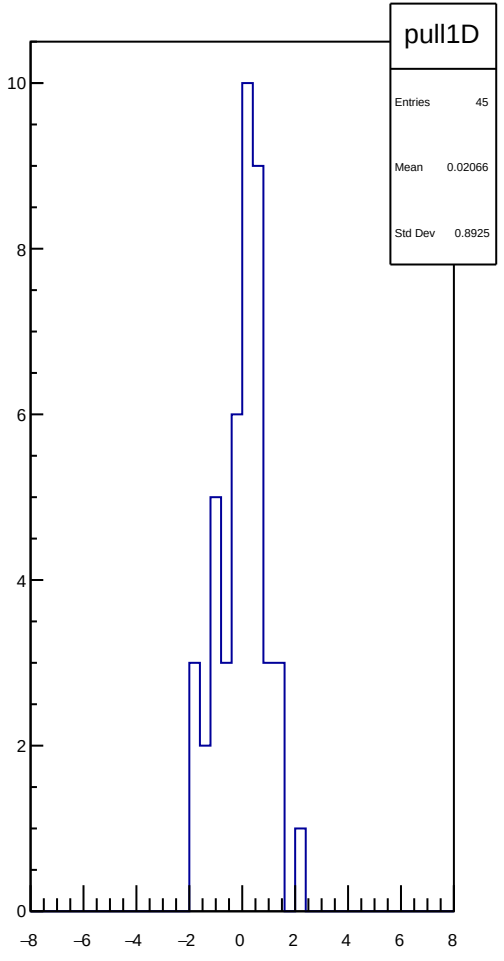

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.132e+04 / 44
p0 59.32 ± 0.06356
160
140
120
100
80
60
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

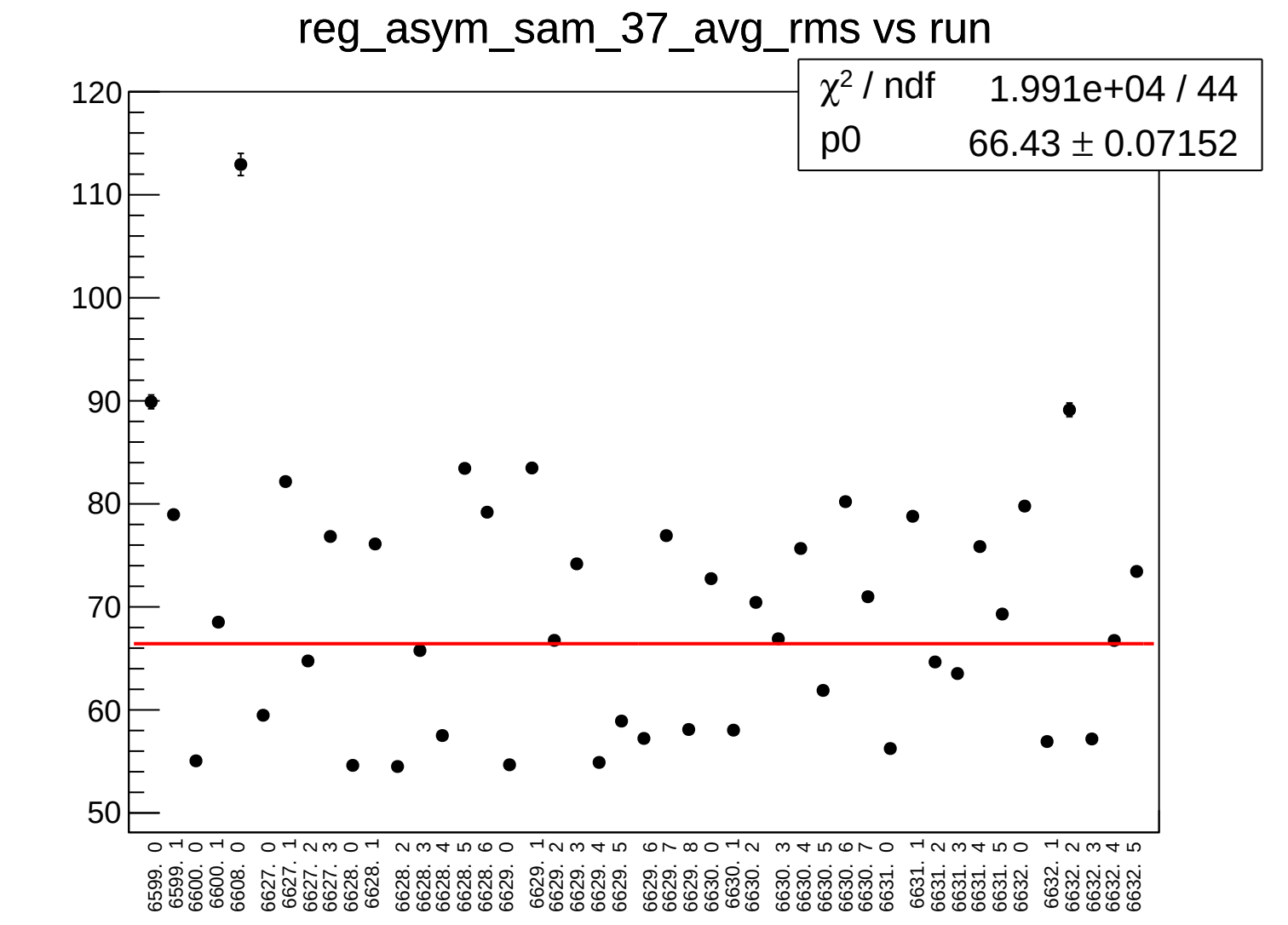

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 43.62 / 44
p0 −7.387e−15 ± 2.005e−14
1
0.5
0
−0.5
−1
−1.5
−2
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 57.98
Std Dev 0
2
1
0
−1
−2

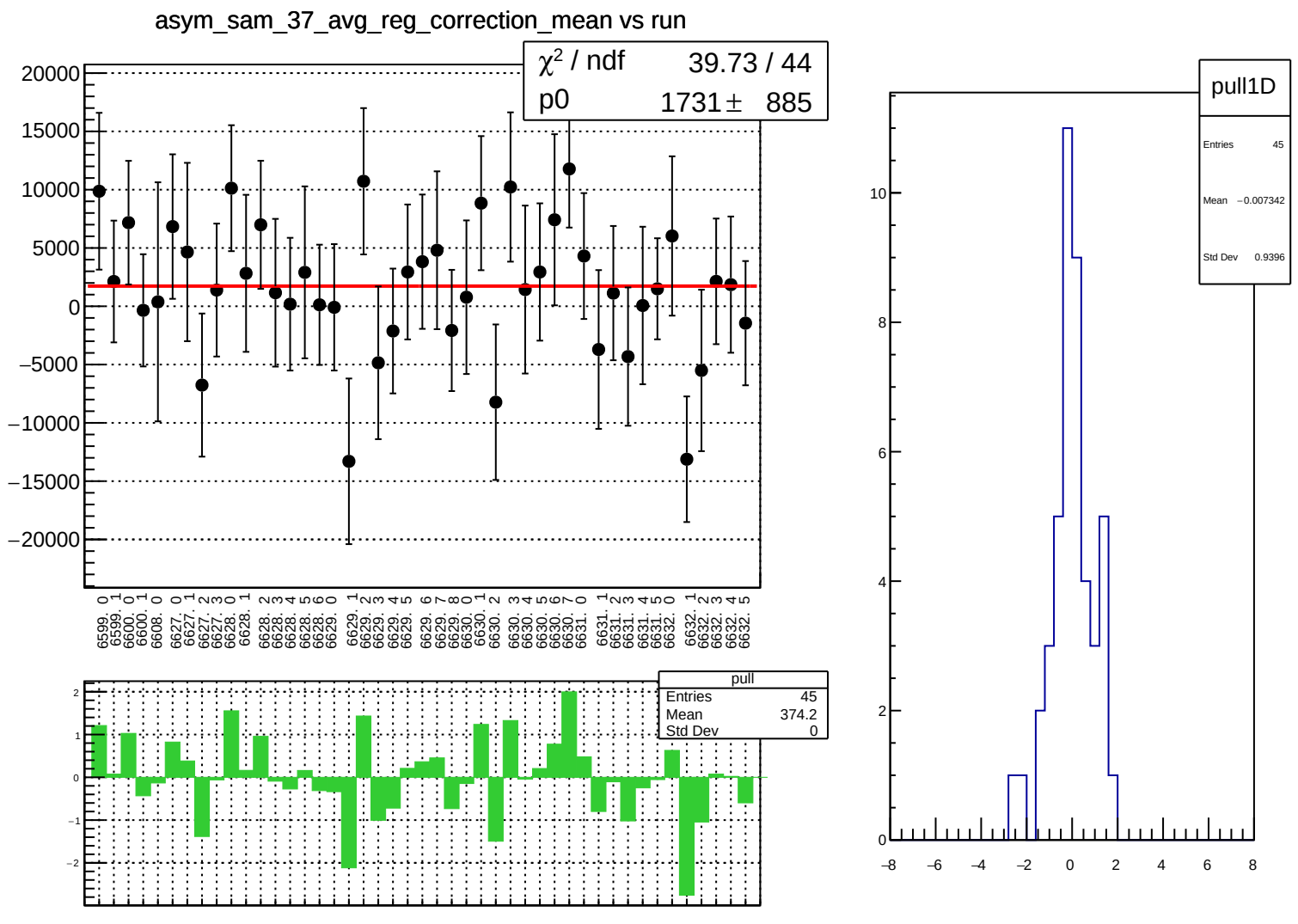

pull1D
Entries 45
Mean 0.04079
Std Dev 0.9837
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

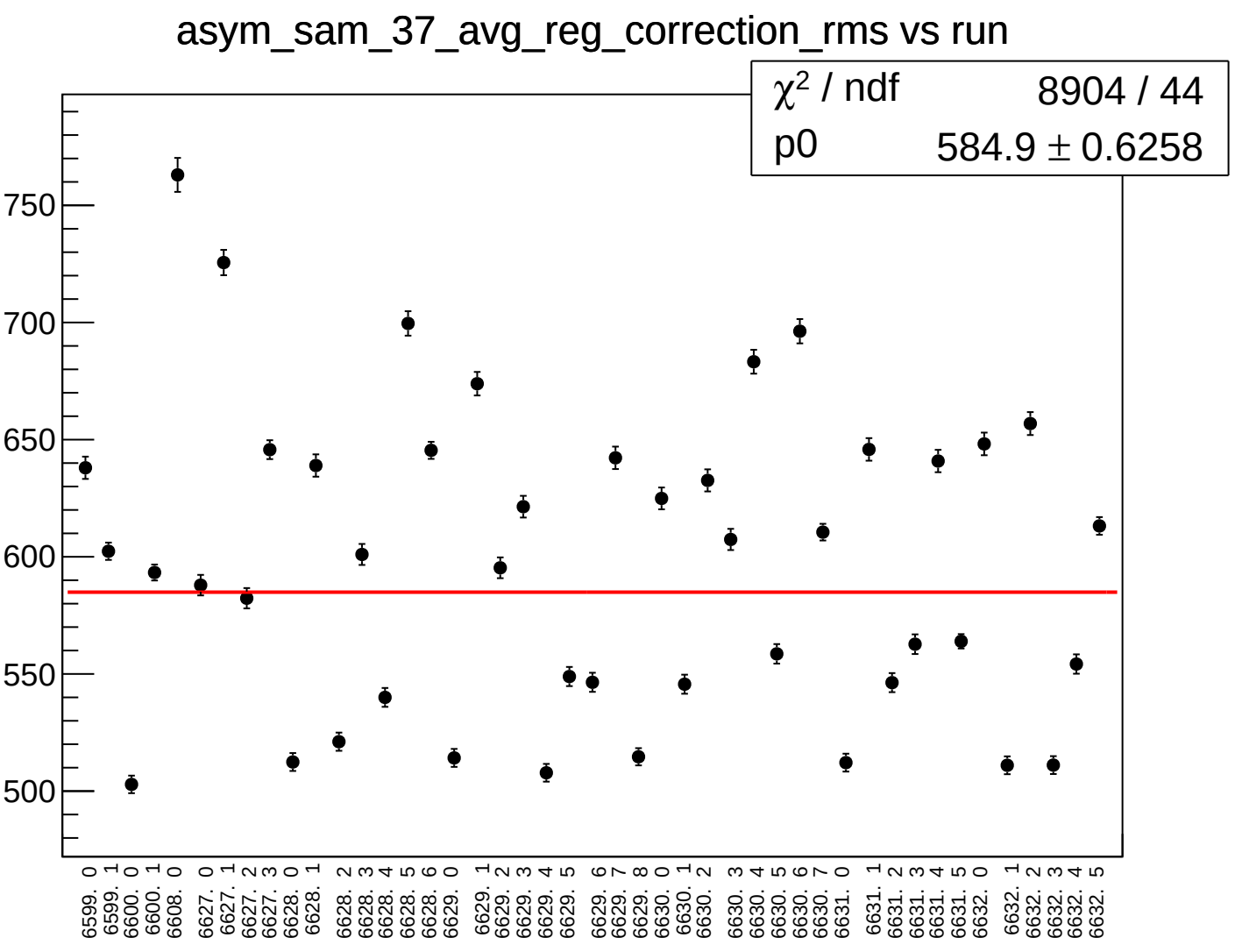

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
90
80
70
60
50
40
30
20
10
χ² / ndf 2.079e+05 / 44
p0 1.165e−11 ± 1.418e−14
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


reg_asym_sam_37_avg_mean vs run
χ² / ndf 35.86 / 44
p0 167.7 ± 101.1
2000
1000
0
−1000
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −42.46
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.02066
Std Dev 0.8925
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_37_avg_rms vs run
χ² / ndf 1.991e+04 / 44
p0 66.43 ± 0.07152
120
110
100
90
80
70
60
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 39.73 / 44
p0 1731 ± 885
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 374.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.007342
Std Dev 0.9396
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 8904 / 44
p0 584.9 ± 0.6258
750
700
650
600
550
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
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6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
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6630. 6
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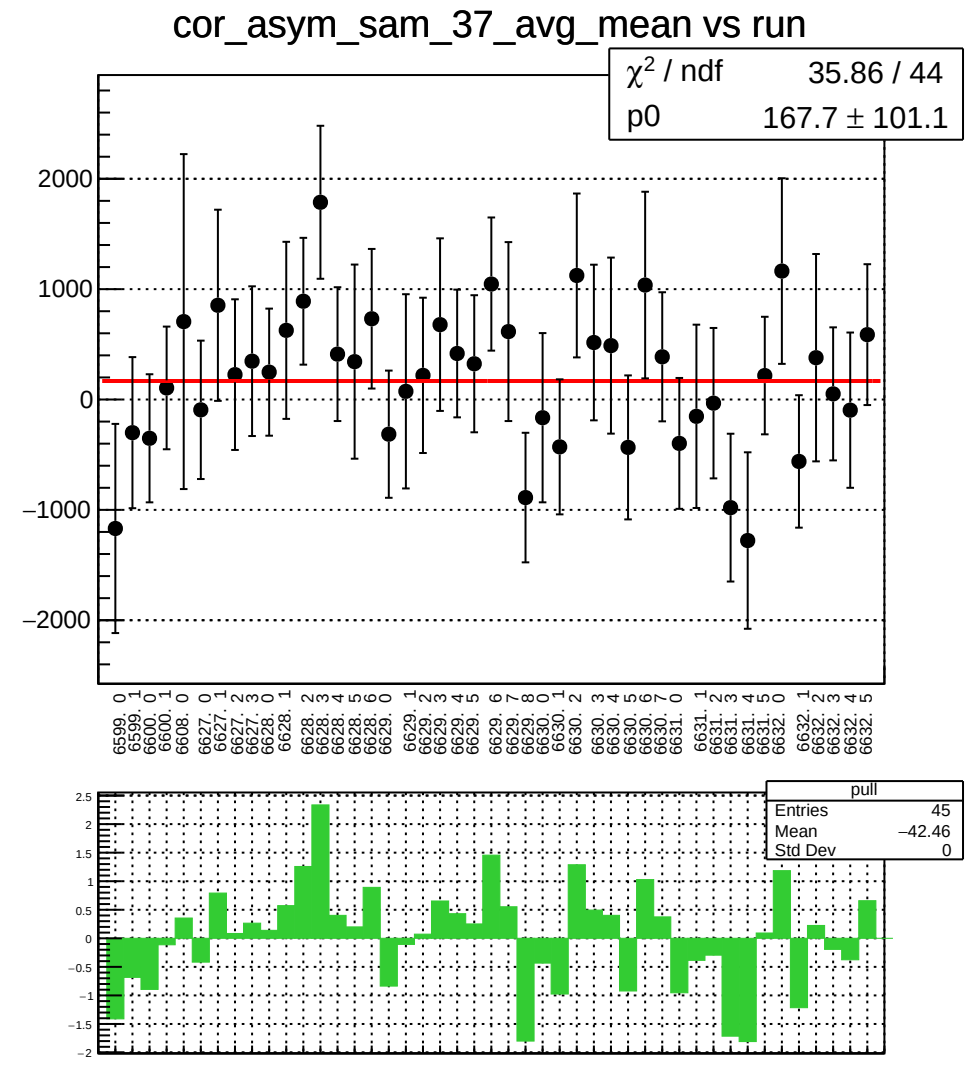
6632. 5


cor_asym_sam_37_avg_mean vs run
χ² / ndf 35.86 / 44
p0 167.7 ± 101.1
2000
1000
0
−1000
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
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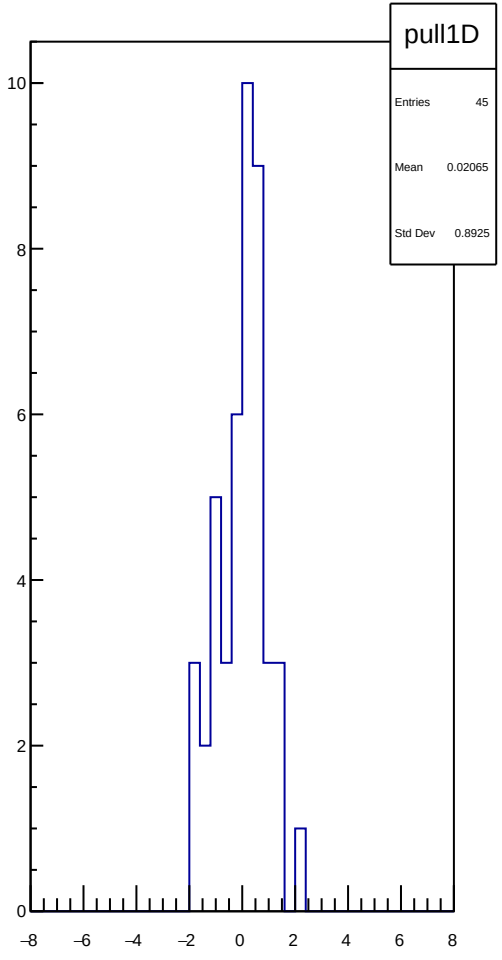
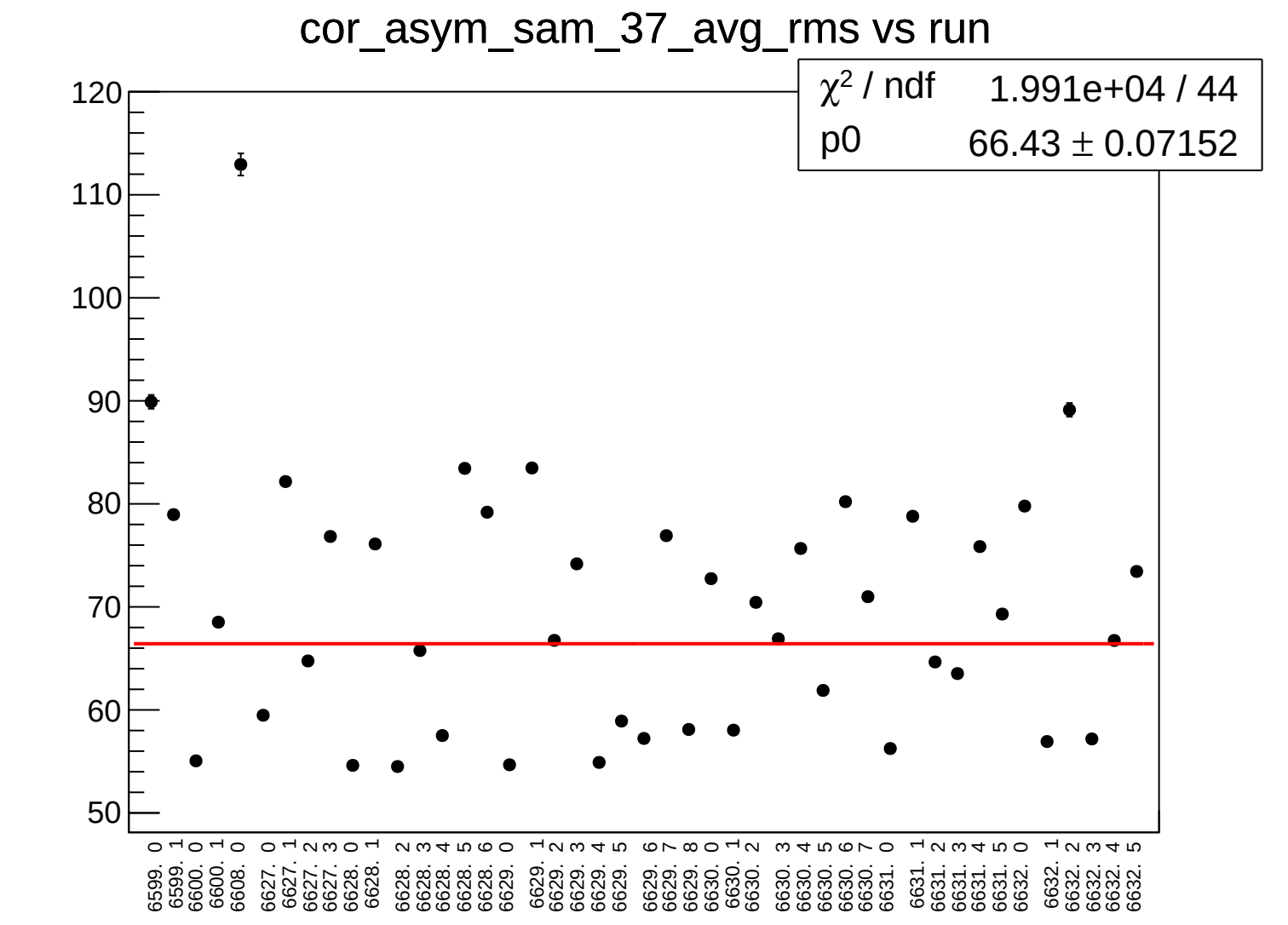
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −42.46
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.02065
Std Dev 0.8925
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_37_avg_rms vs run
χ² / ndf 1.991e+04 / 44
p0 66.43 ± 0.07152
120
110
100
90
80
70
60
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
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6629. 2
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6629. 4
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6629. 7
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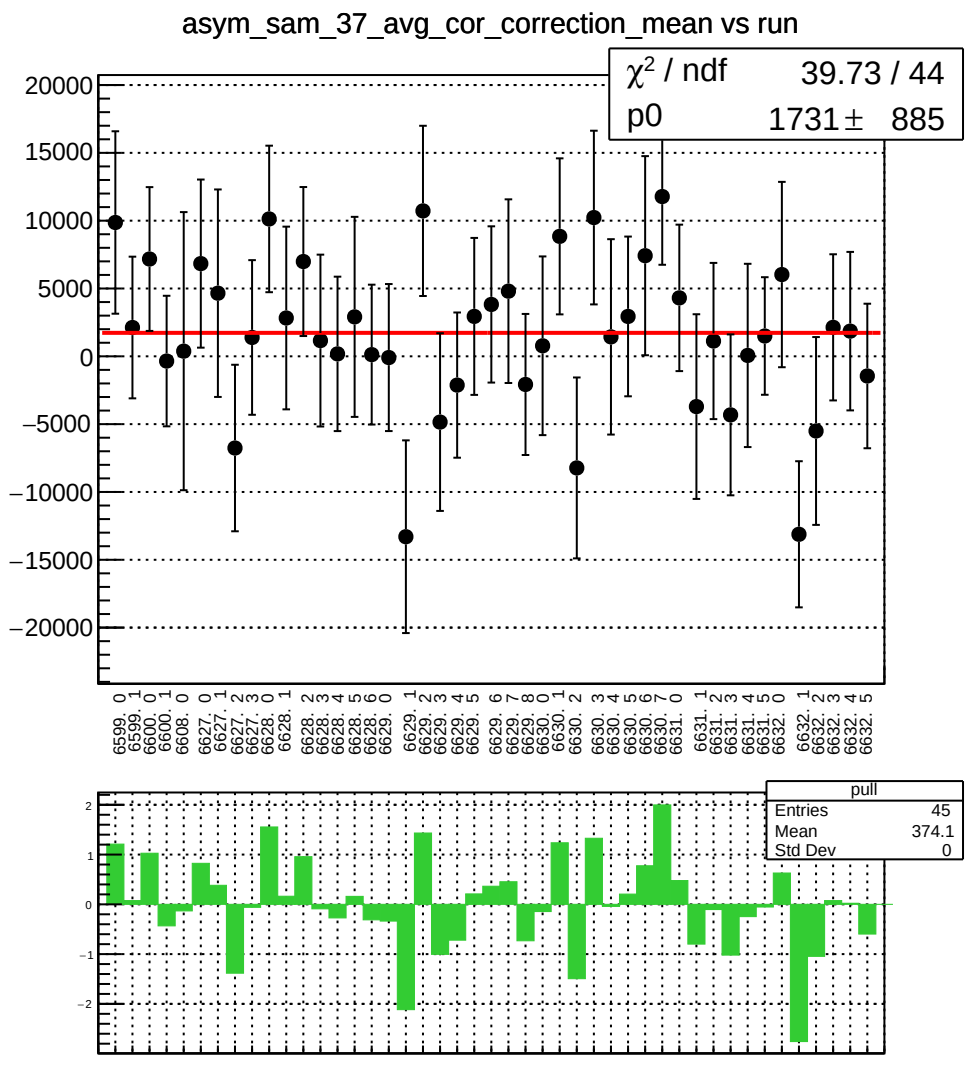
asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 39.73 / 44
p0 1731 ± 885
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
6628. 3
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6628. 5
6628. 6
6629. 0
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6629. 7
6629. 8
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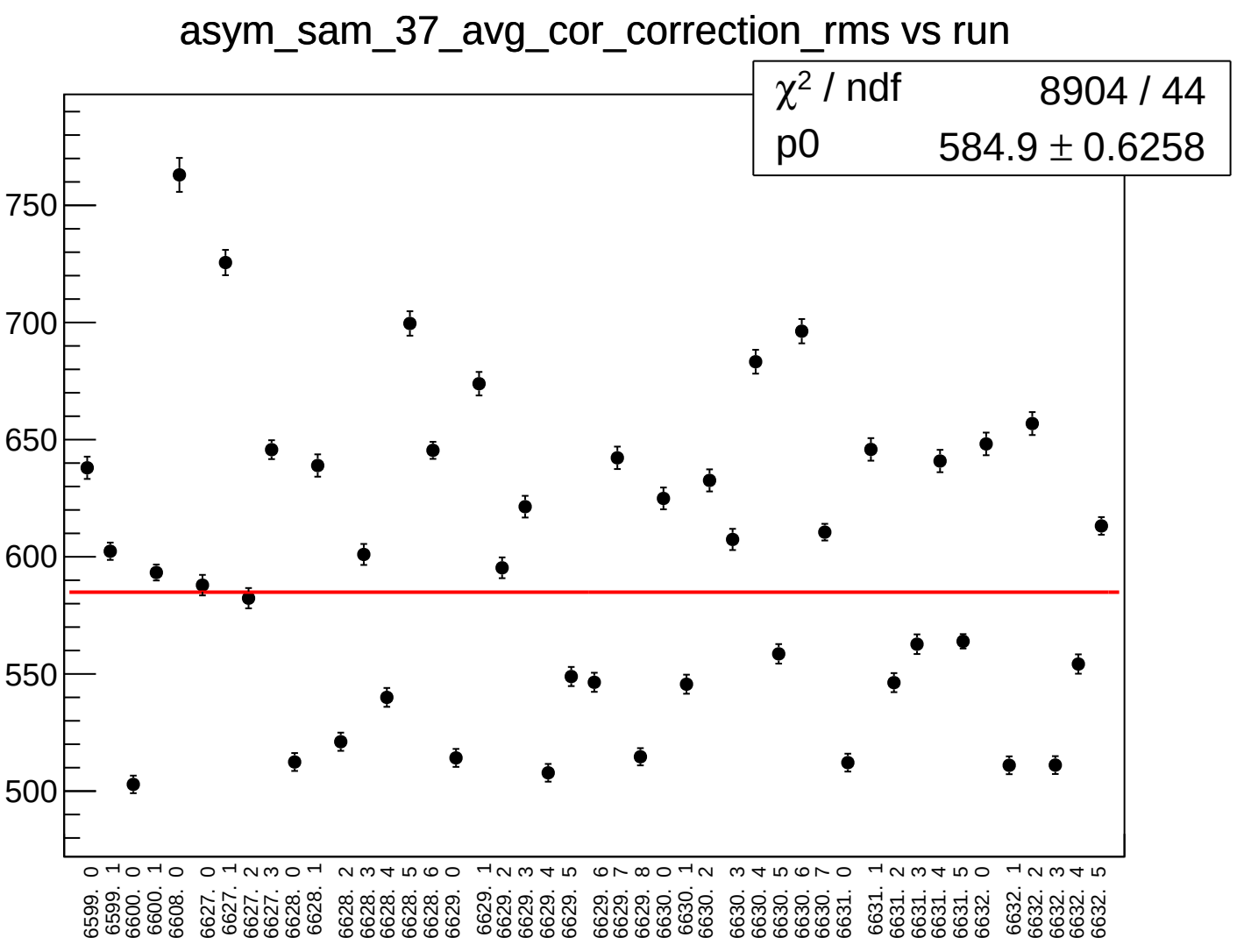
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 374.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.007344
Std Dev 0.9396
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 8904 / 44
p0 584.9 ± 0.6258
750
700
650
600
550
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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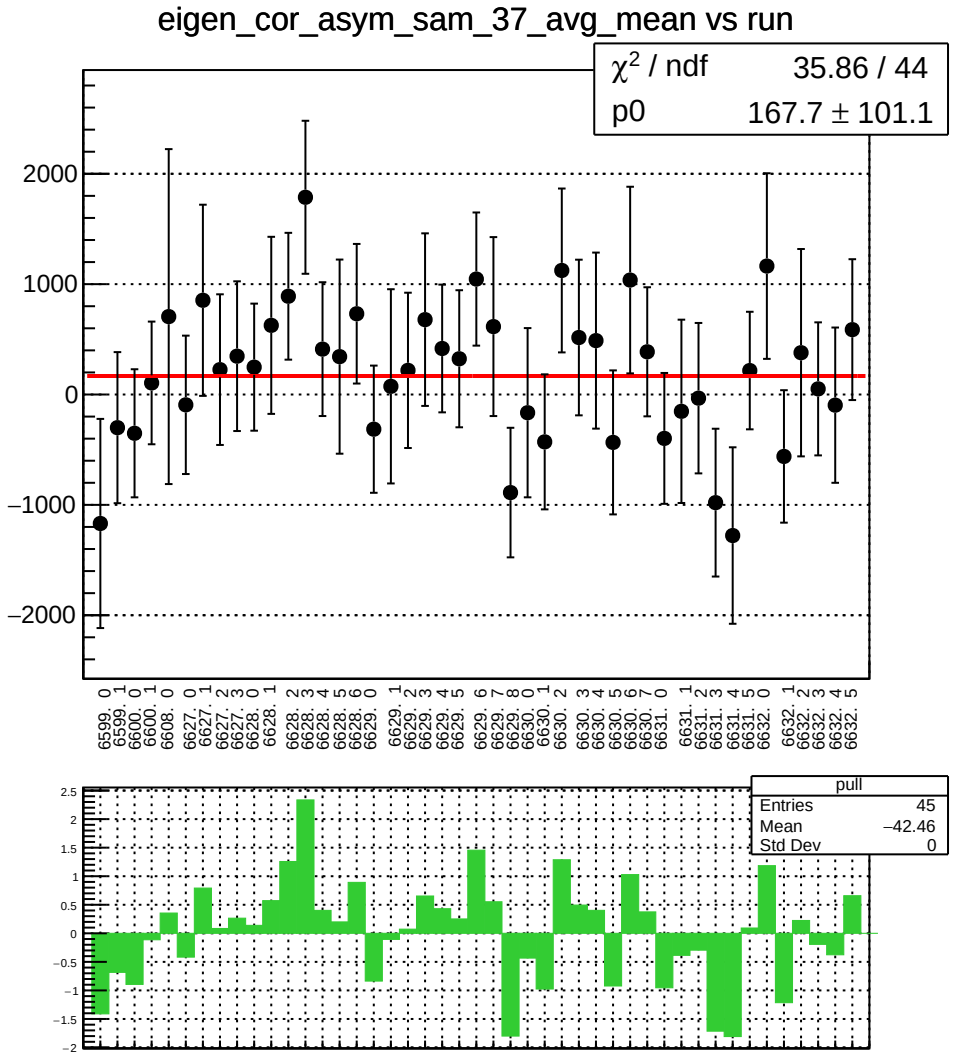
6632. 2
6632. 3
6632. 4
6632. 5


eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 35.86 / 44
p0 167.7 ± 101.1
2000
1000
0
−1000
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
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6628. 2
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6628. 4
6628. 5
6628. 6
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6629. 4
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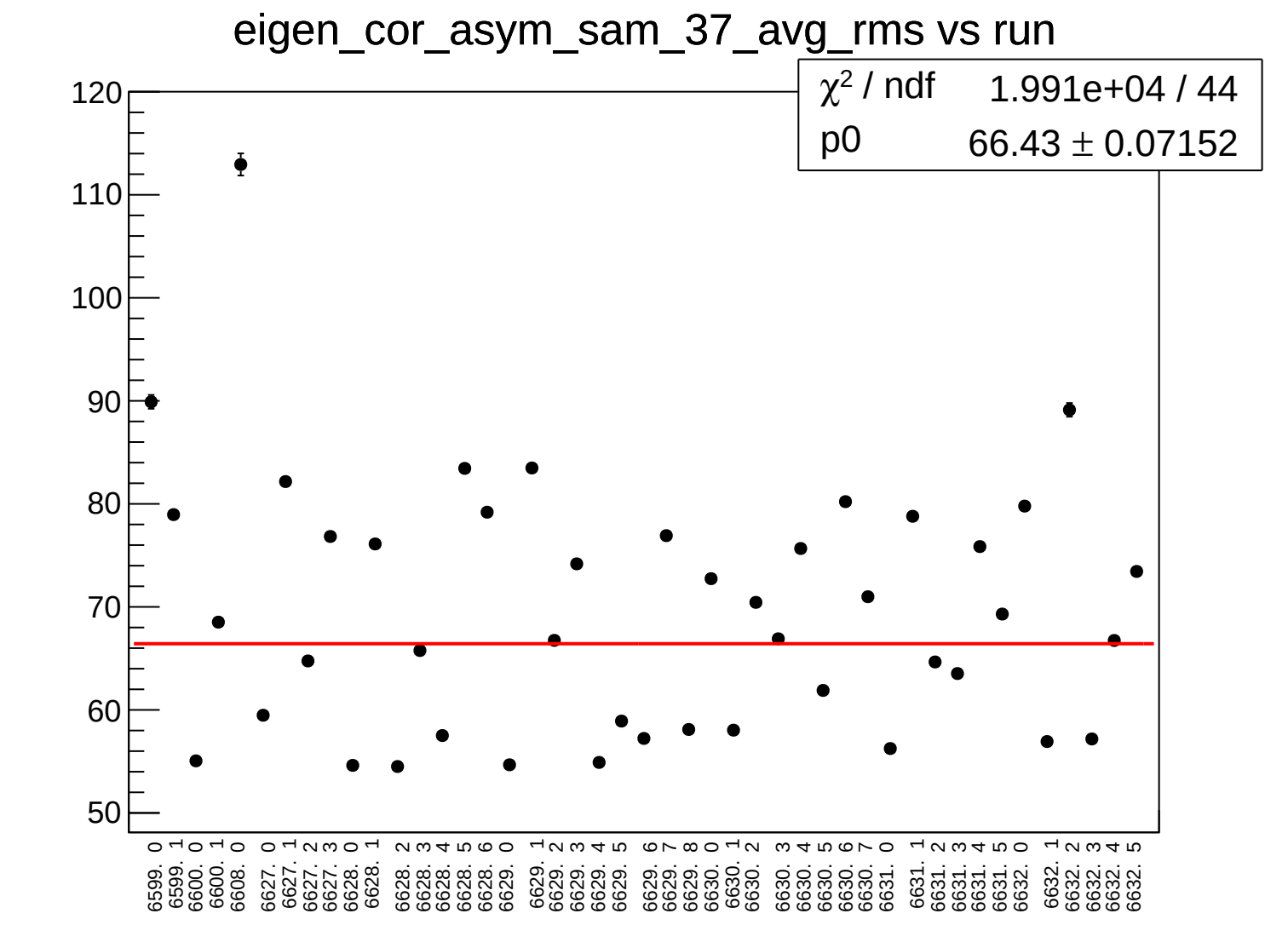
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −42.46
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.02065
Std Dev 0.8925
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 1.991e+04 / 44
p0 66.43 ± 0.07152
120
110
100
90
80
70
60
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
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6628. 5
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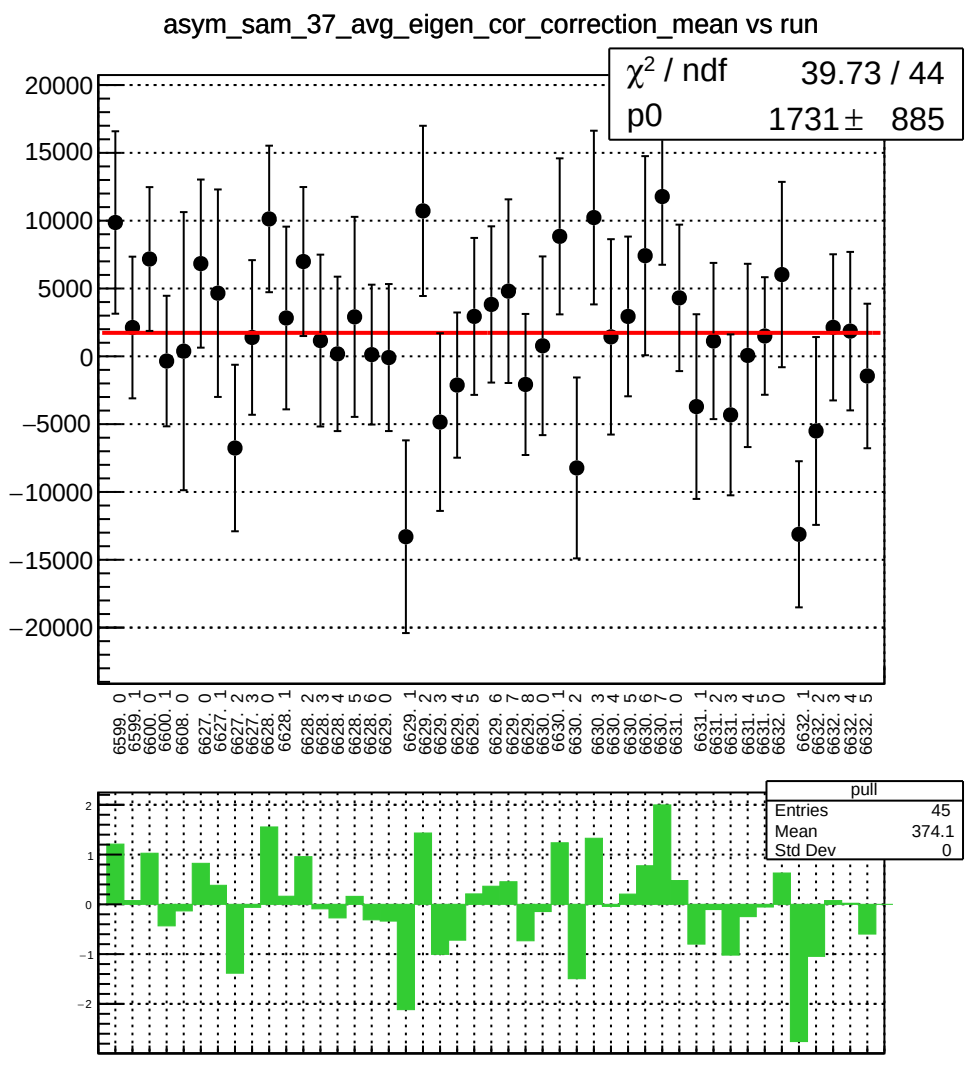
6632. 5


asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 39.73 / 44
p0 1731 ± 885
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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6627. 2
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6630. 7
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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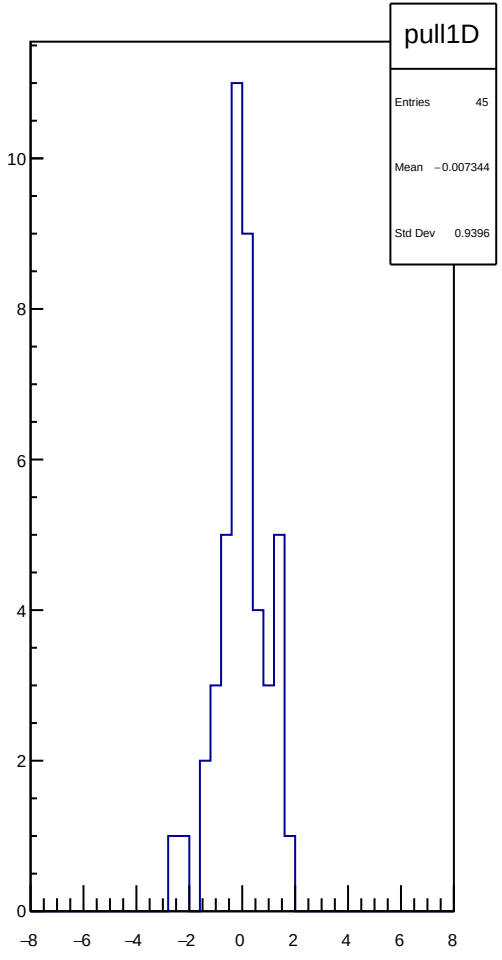
6632. 4
6632. 5
pull
Entries 45
Mean 374.1
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.007344
Std Dev 0.9396
10
8
6
4
2
0
−8
−6
−4
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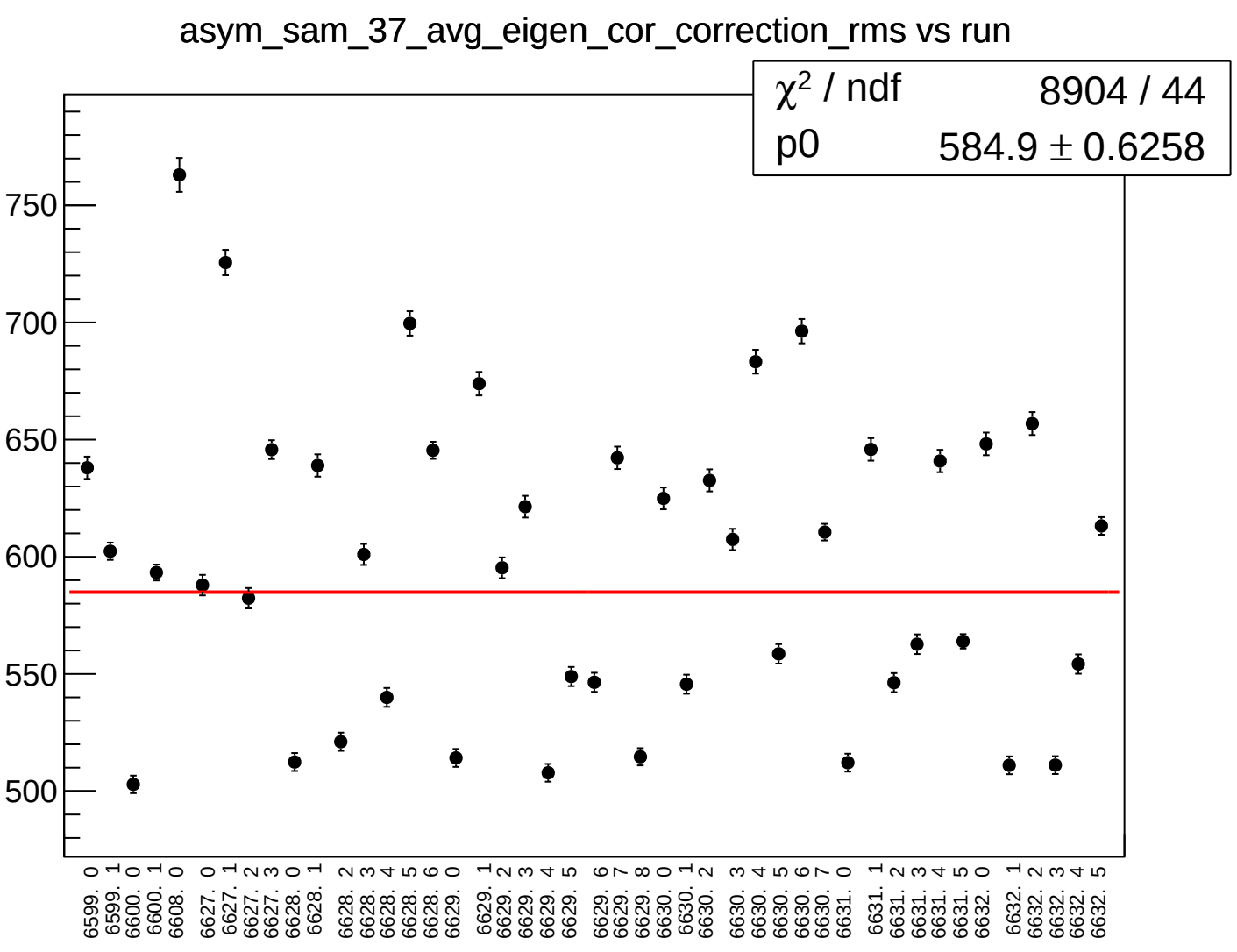
0
2
4
6
8


asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 8904 / 44
p0 584.9 ± 0.6258
750
700
650
600
550
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
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6631. 0
6631. 1
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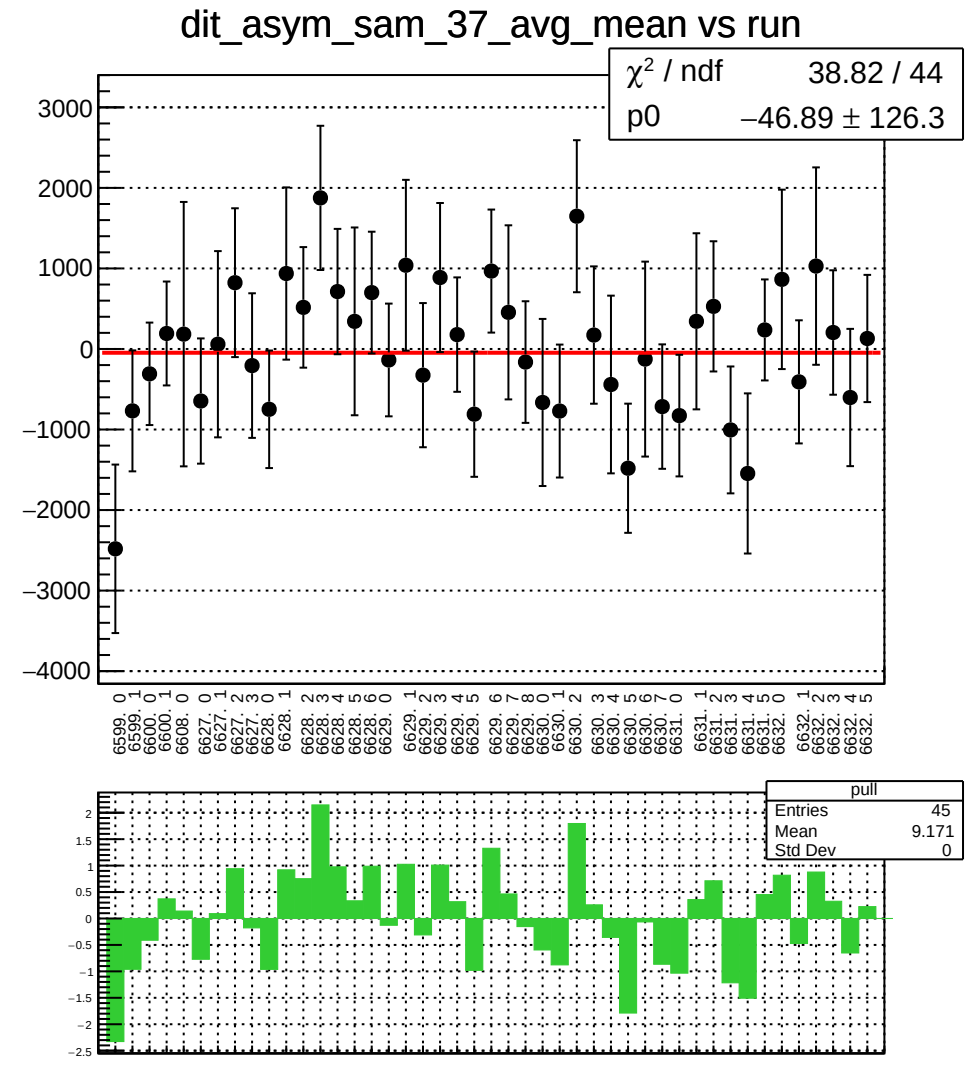
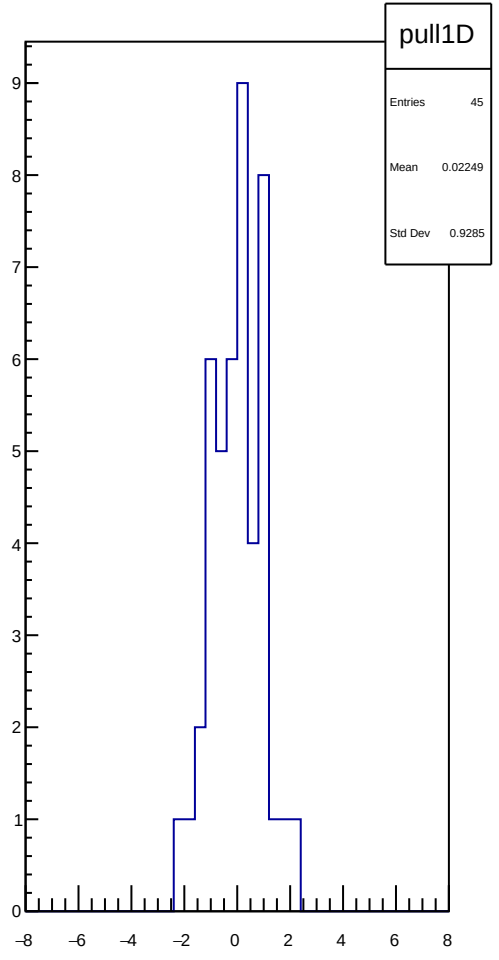
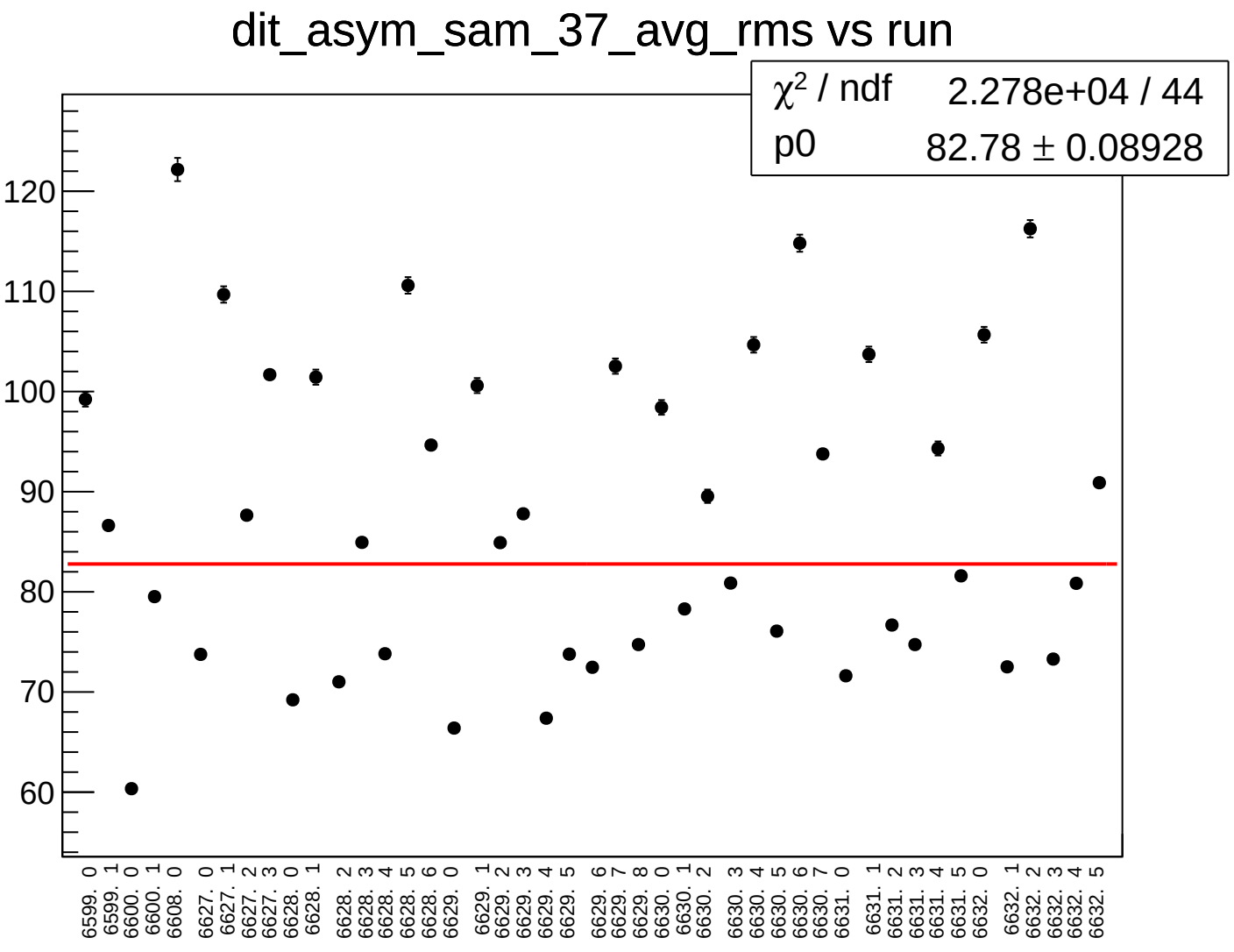
6632. 5


dit_asym_sam_37_avg_mean vs run
χ² / ndf 38.82 / 44
p0 −46.89 ± 126.3
pull
Entries 45
Mean 9.171
Std Dev 0


pull1D
Entries 45
Mean 0.02249
Std Dev 0.9285


dit_asym_sam_37_avg_rms vs run
χ² / ndf 2.278e+04 / 44
p0 82.78 ± 0.08928
120
110
100
90
80
70
60
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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6630. 2
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6630. 7
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6632. 0
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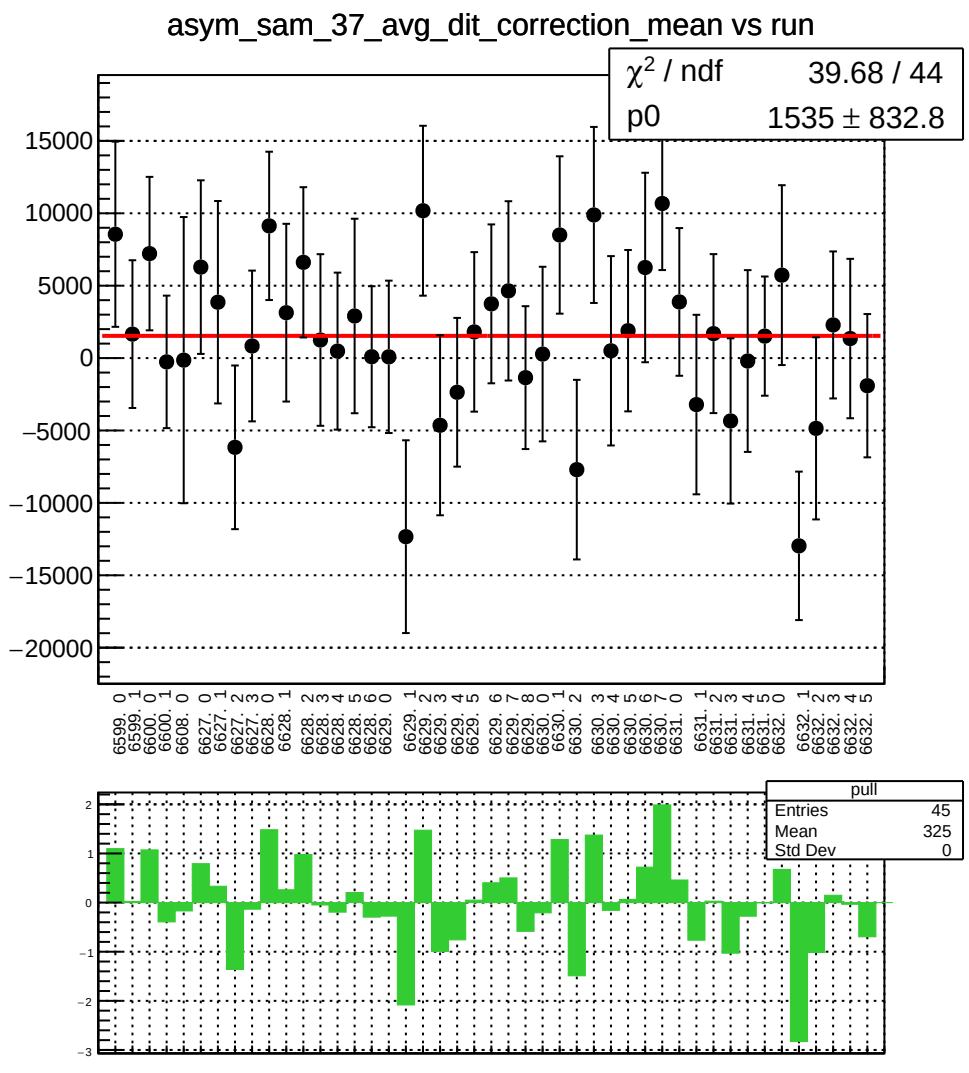
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 39.68 / 44
p0 1535 ± 832.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
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6629. 0
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6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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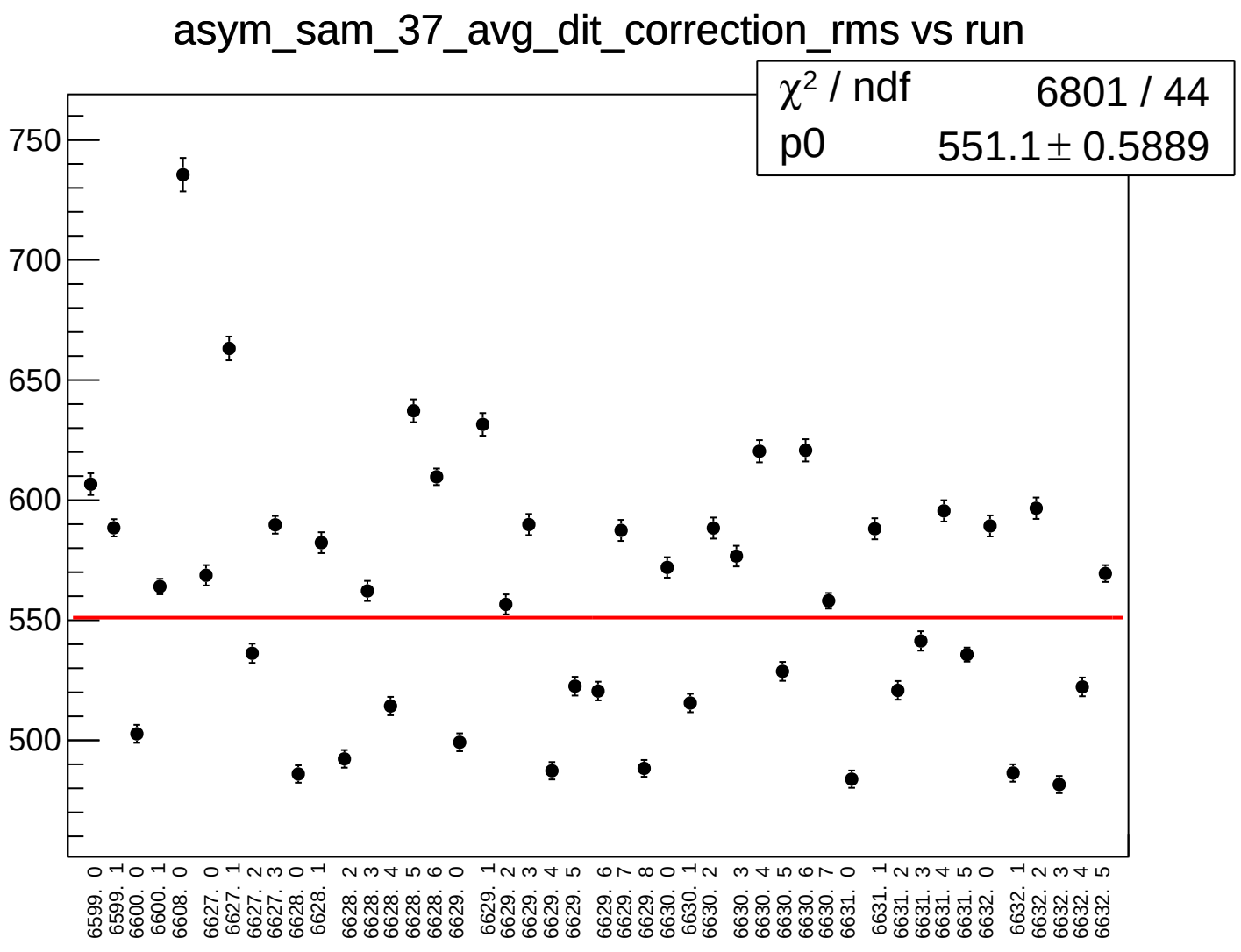
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 325
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.0085
Std Dev 0.9389
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 6801 / 44
p0 551.1 ± 0.5889
750
700
650
600
550
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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6628. 3
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6628. 6
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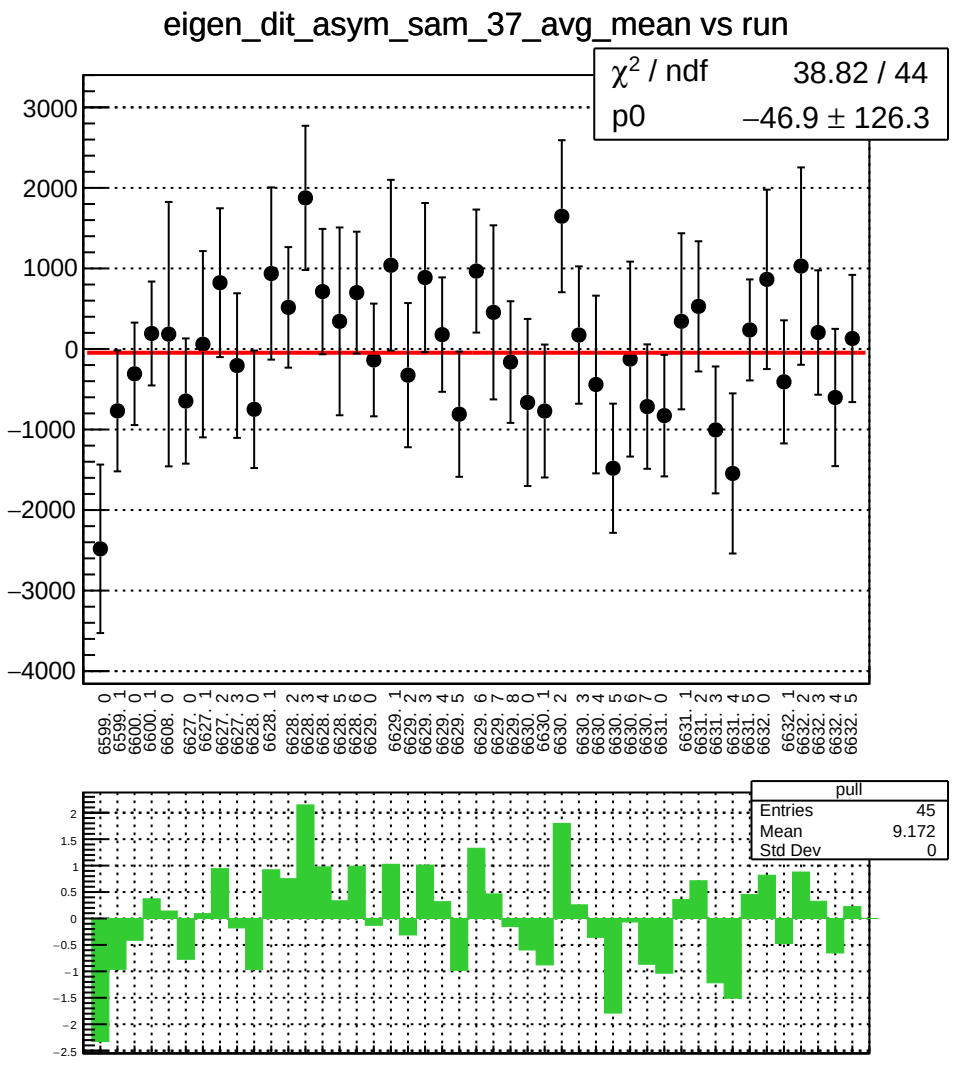
6632. 5


eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 38.82 / 44
p0 −46.9 ± 126.3
3000
2000
1000
0
−1000
−2000
−3000
−4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
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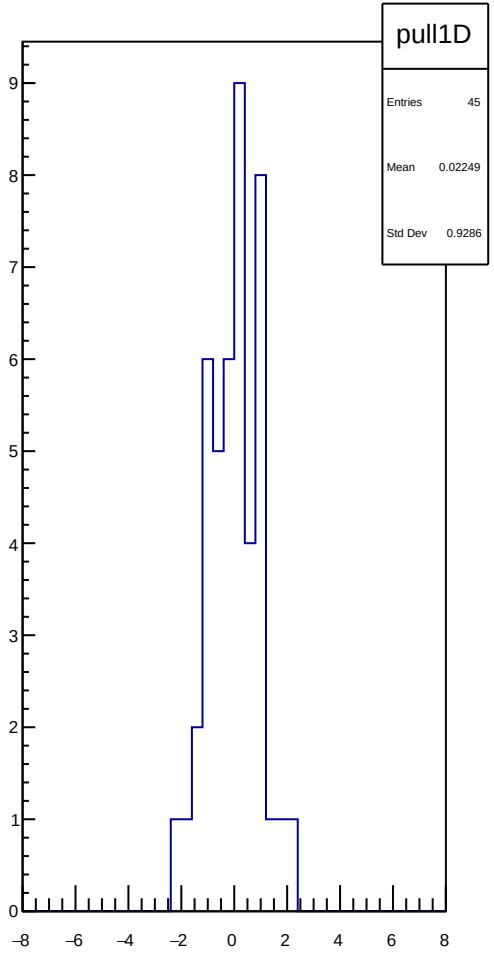
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 9.172
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.02249
Std Dev 0.9286
9
8
7
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5
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−4
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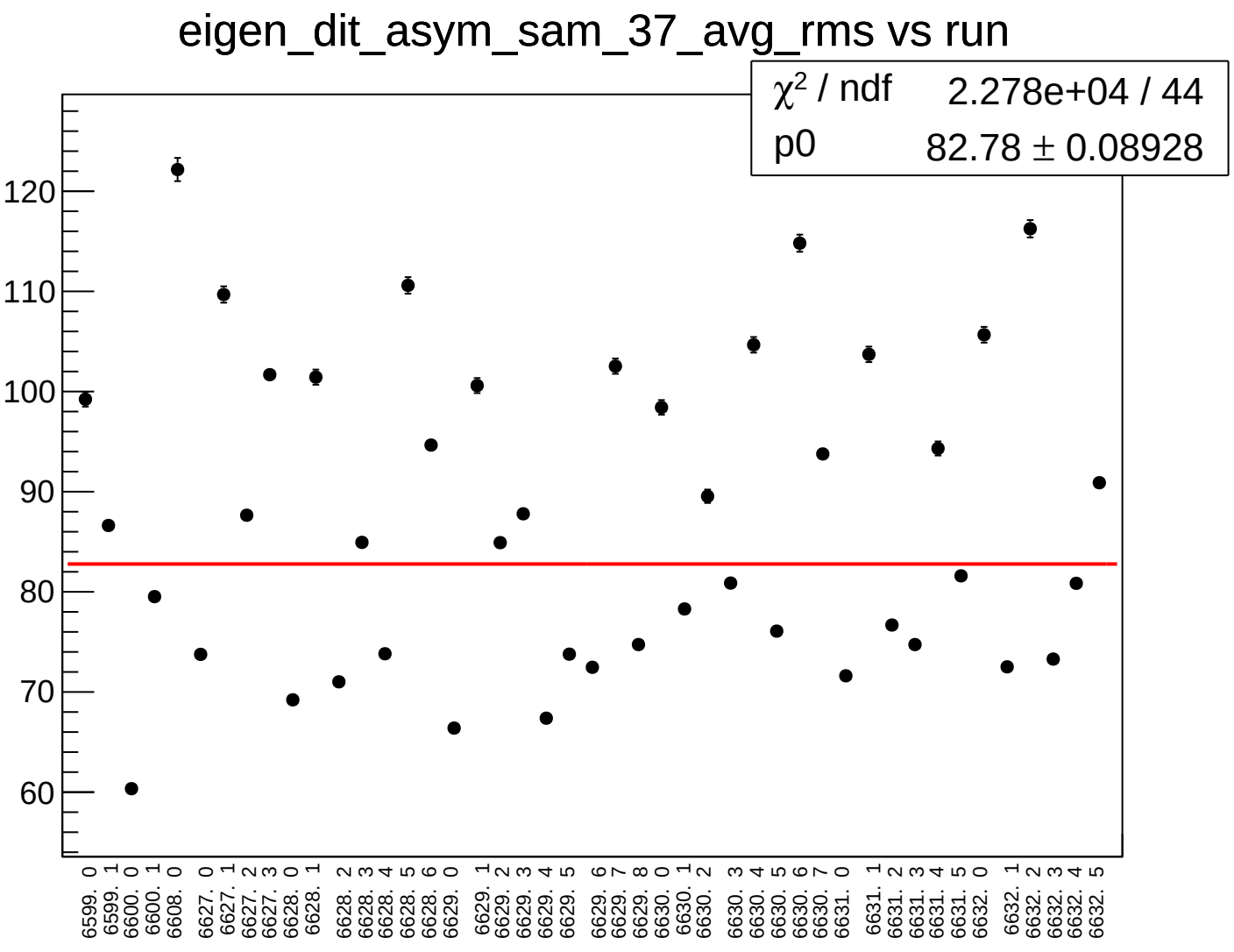
0
2
4
6
8


eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 2.278e+04 / 44
p0 82.78 ± 0.08928
120
110
100
90
80
70
60
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6630. 7
6631. 0
6631. 1
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6631. 5
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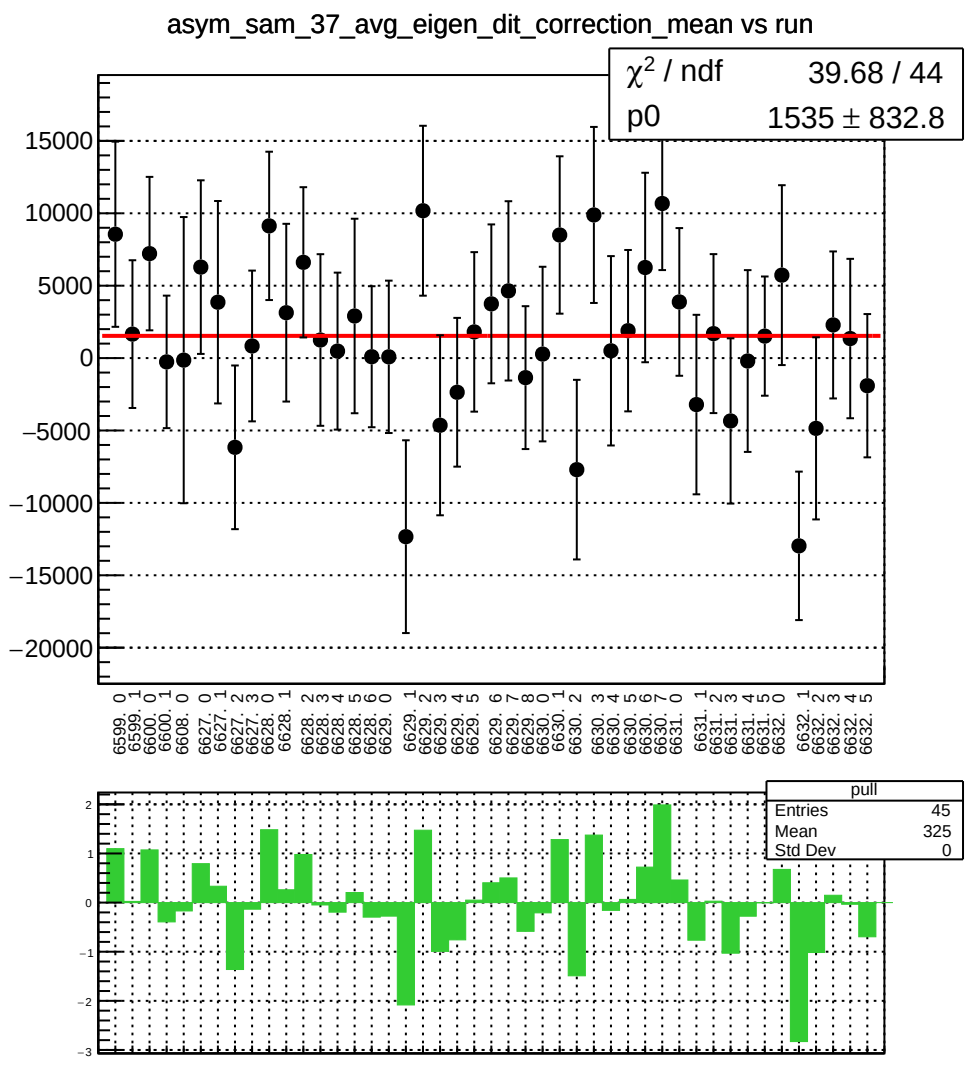
6632. 4
6632. 5


asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 39.68 / 44
p0 1535 ± 832.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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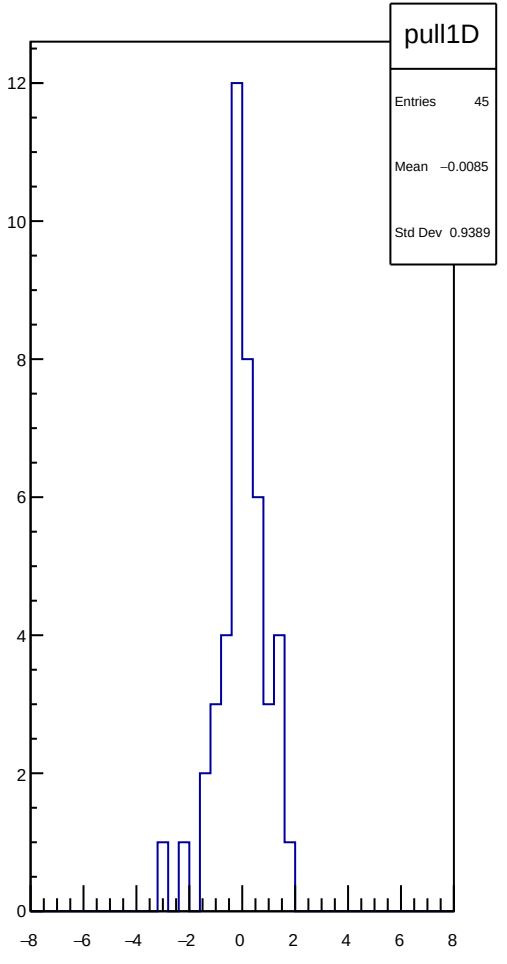
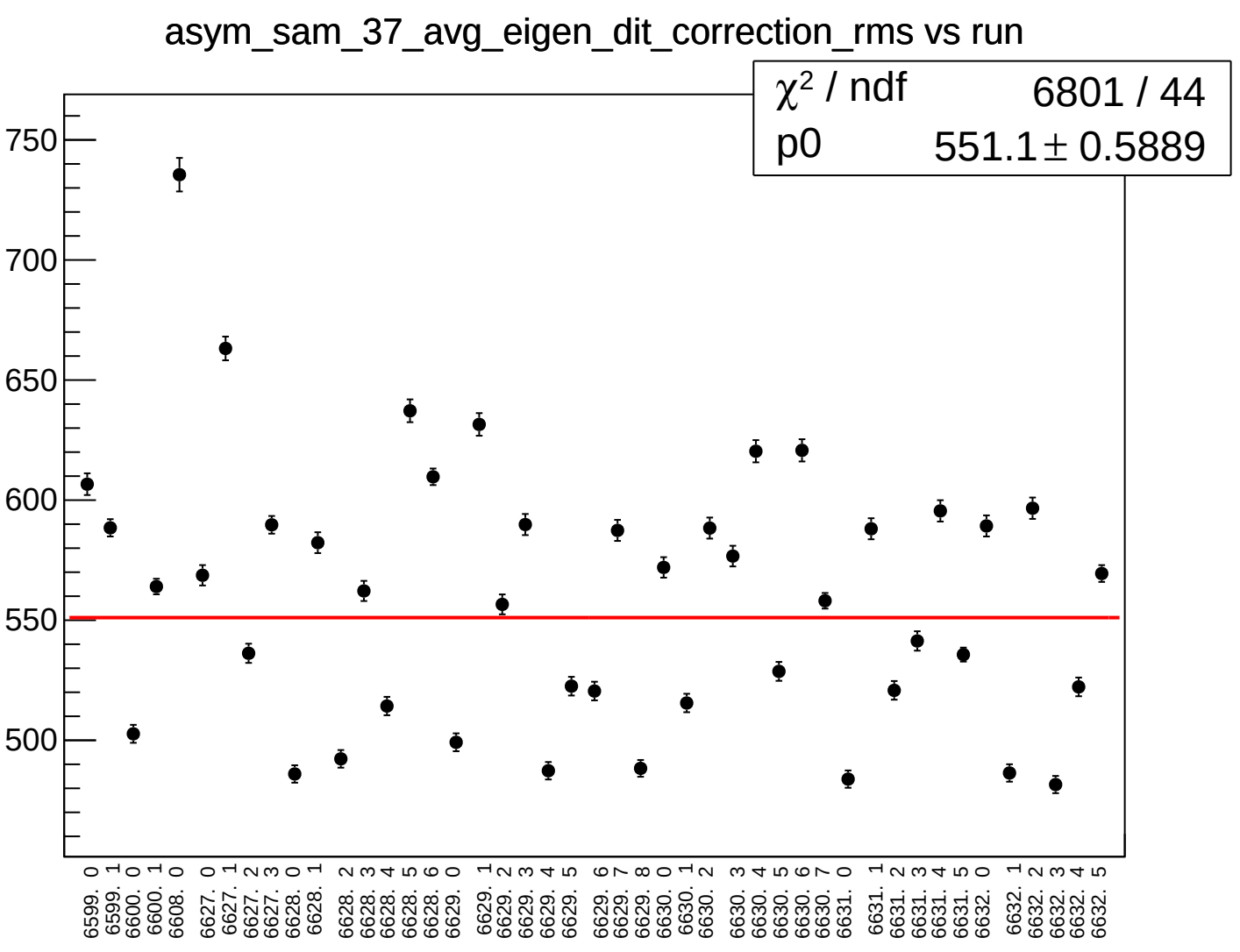
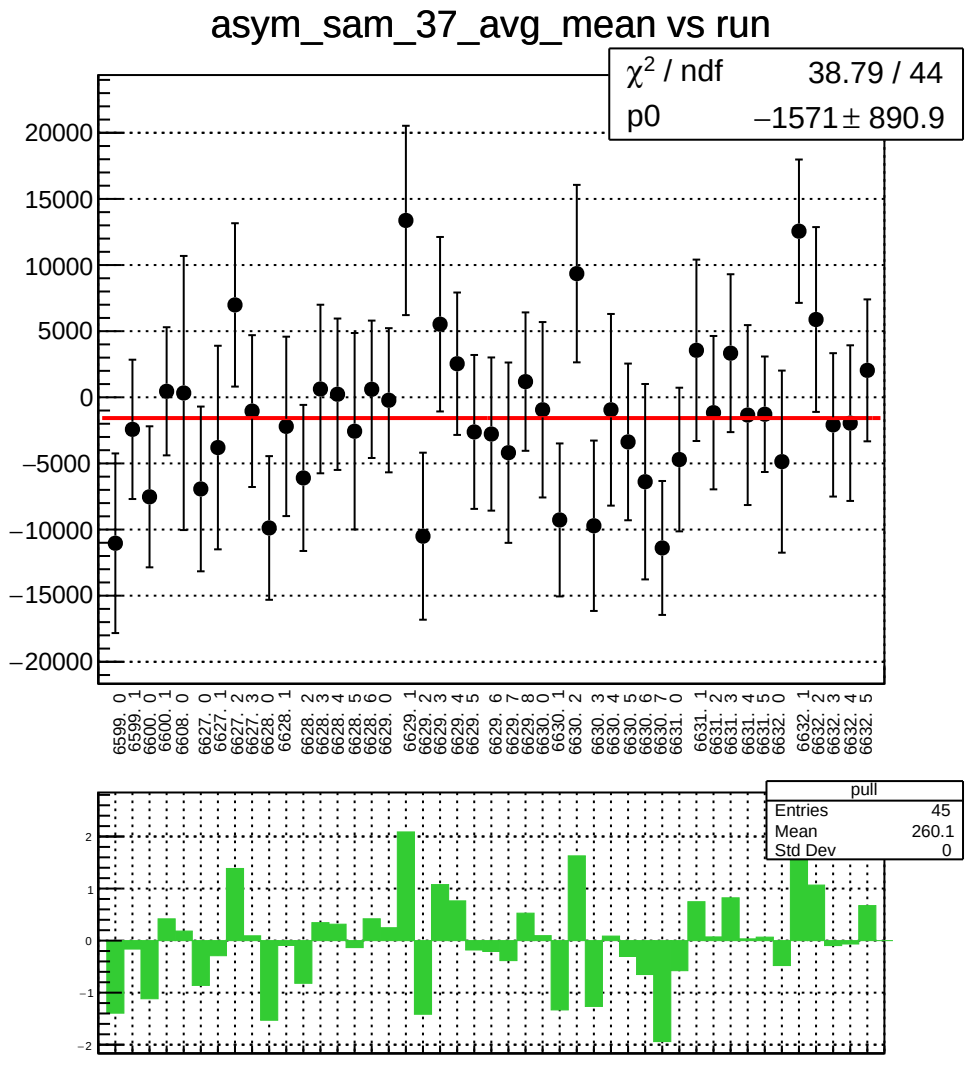
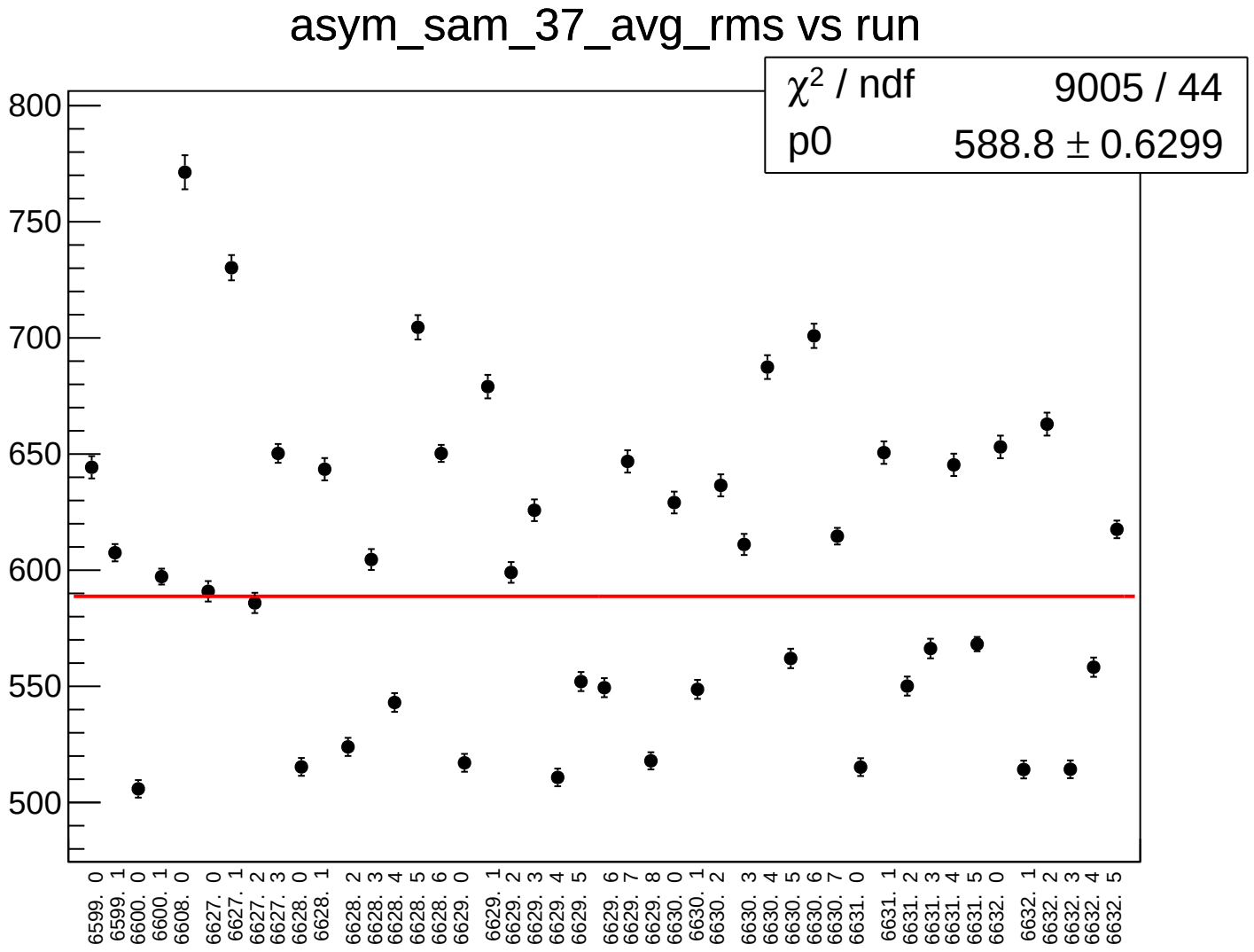
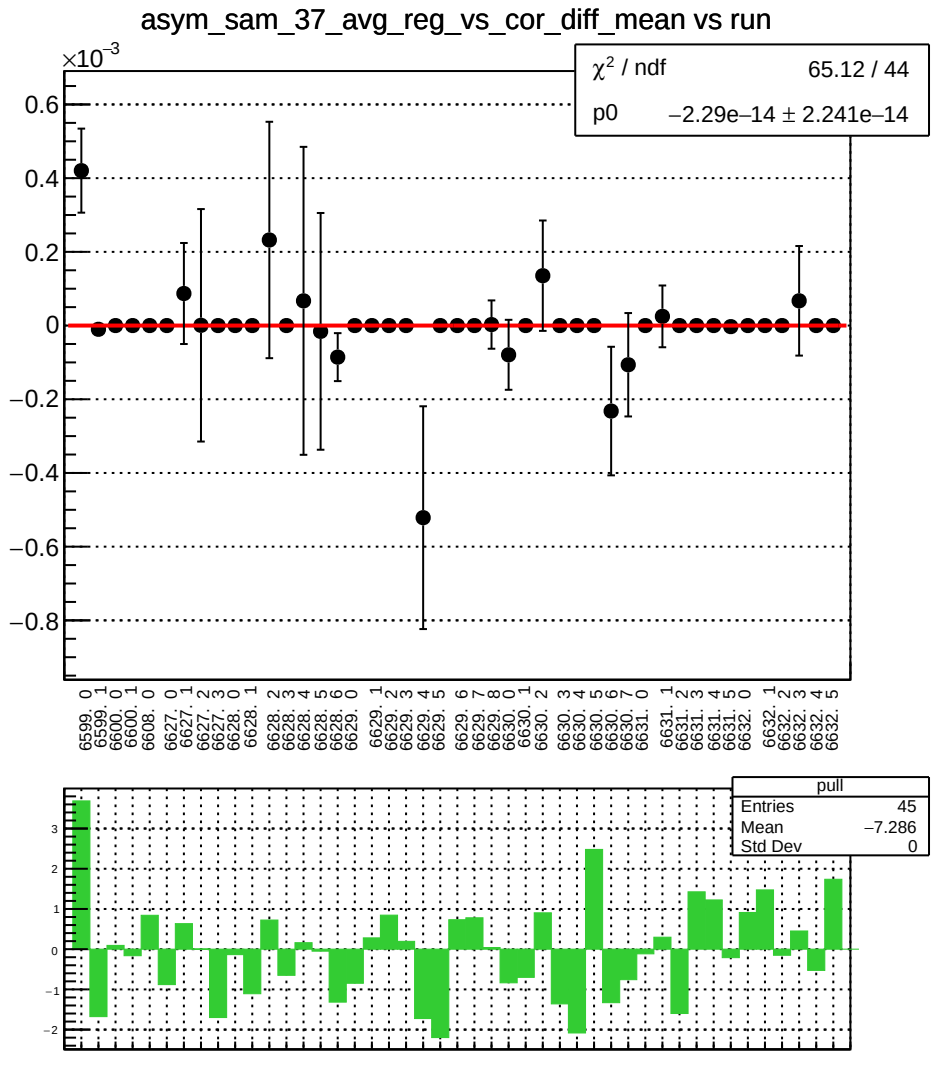
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 325
Std Dev 0
2
1
0
−1
−2
−3

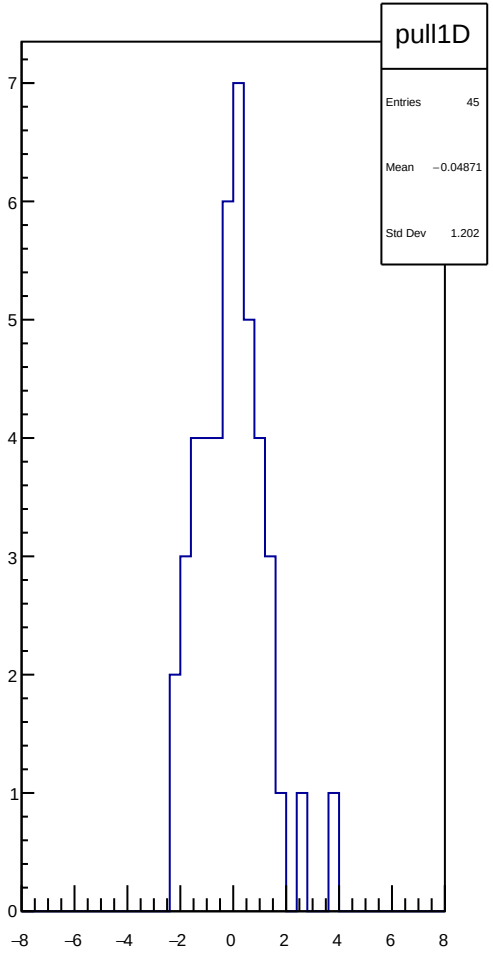

pull1D
Entries 45
Mean −0.0085
Std Dev 0.9389
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

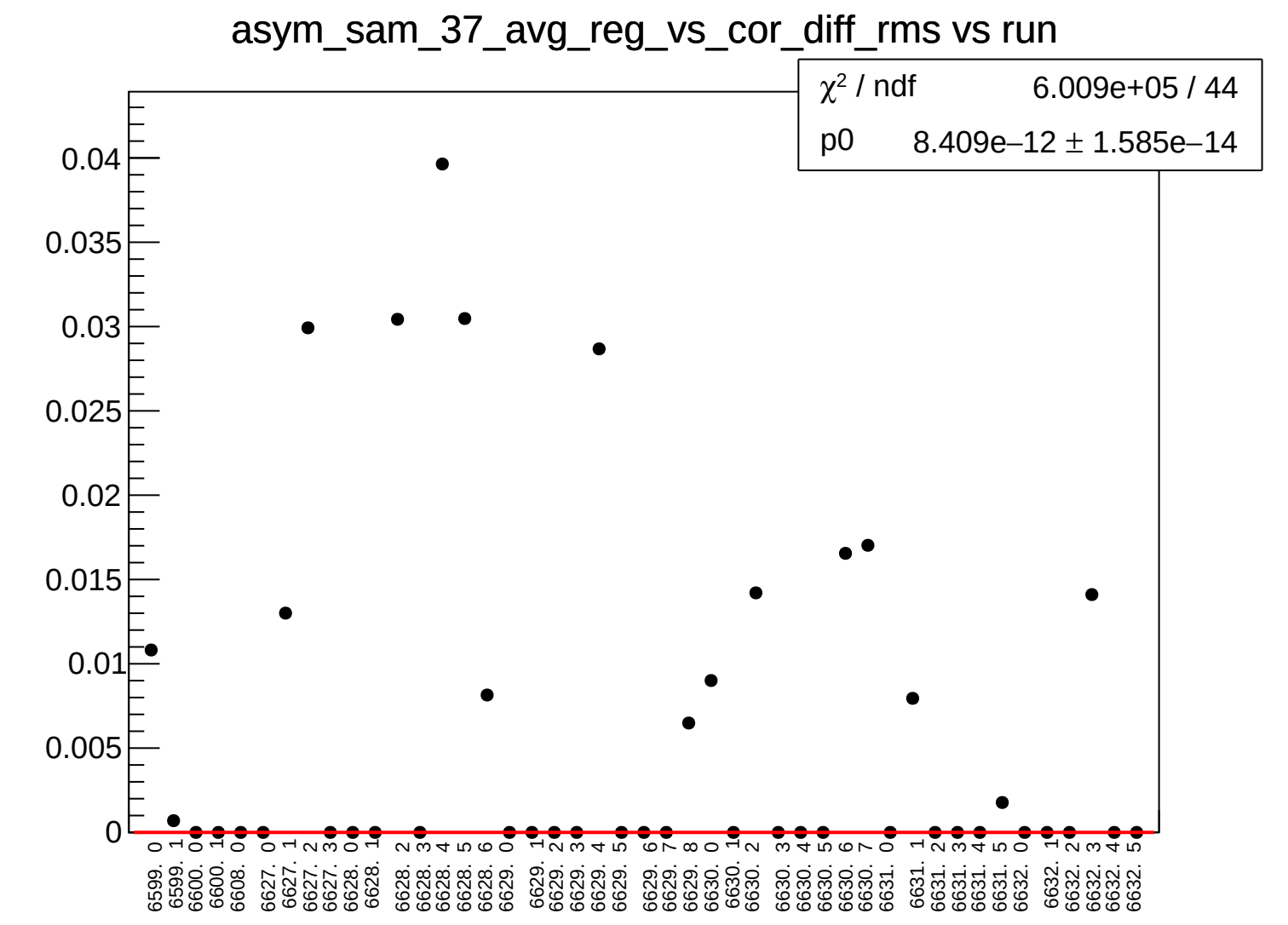

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 6801 / 44
p0 551.1 ± 0.5889
750
700
650
600
550
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

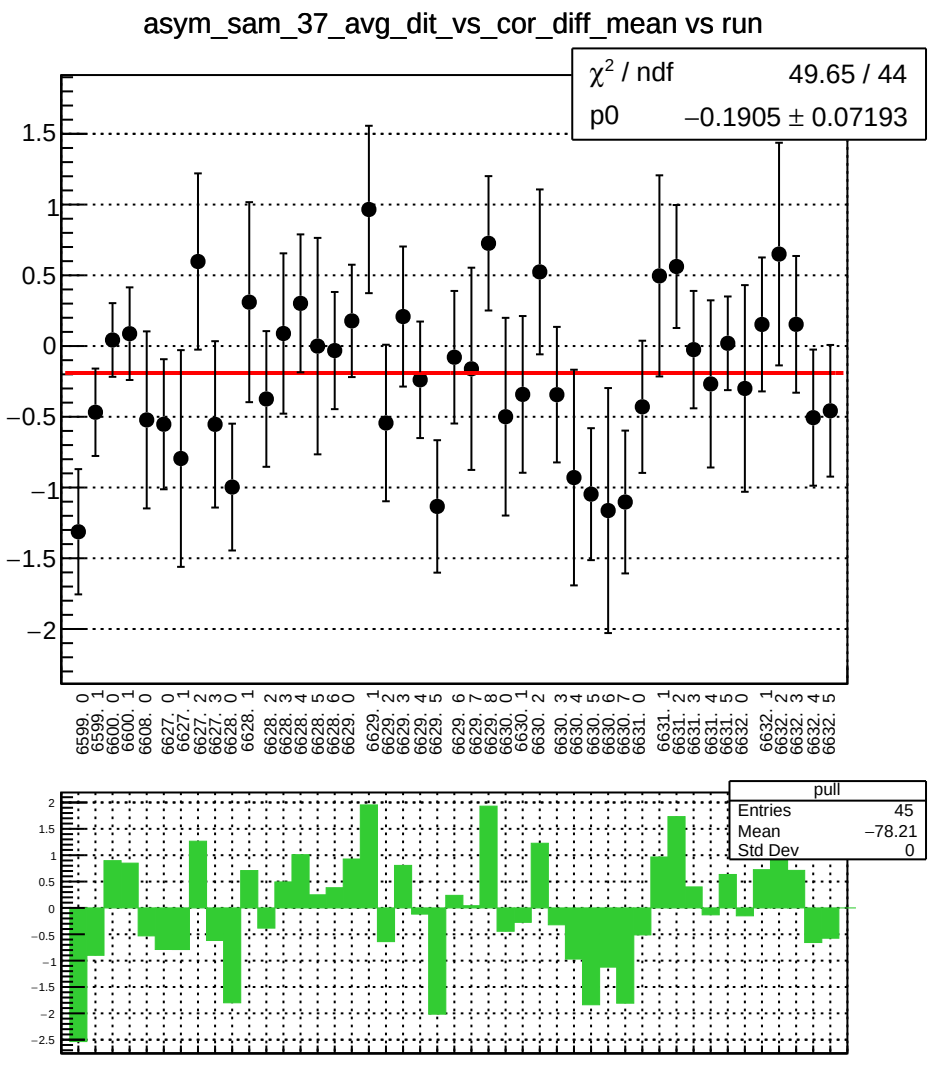

asym_sam_37_avg_mean vs run
χ² / ndf 38.79 / 44
p0 −1571 ± 890.9
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 260.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01026
Std Dev 0.9284
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

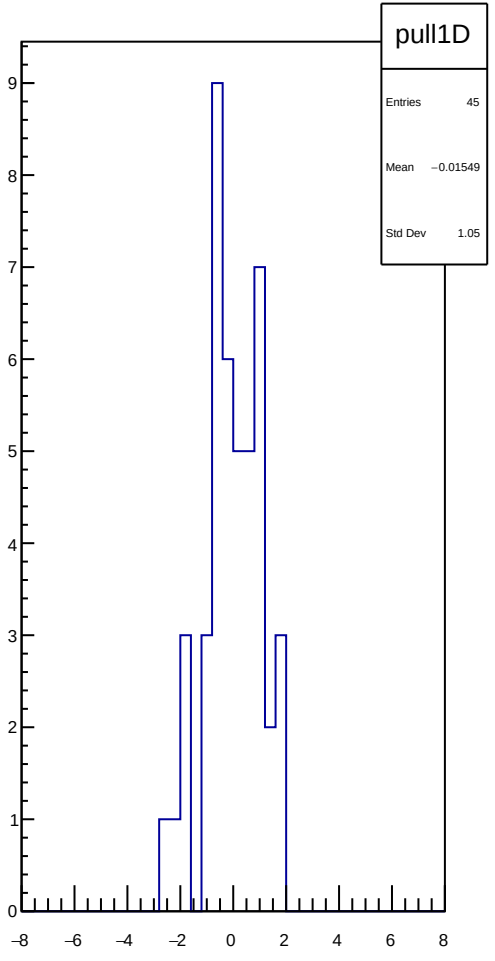

asym_sam_37_avg_rms vs run
χ² / ndf 9005 / 44
p0 588.8 ± 0.6299
800
750
700
650
600
550
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

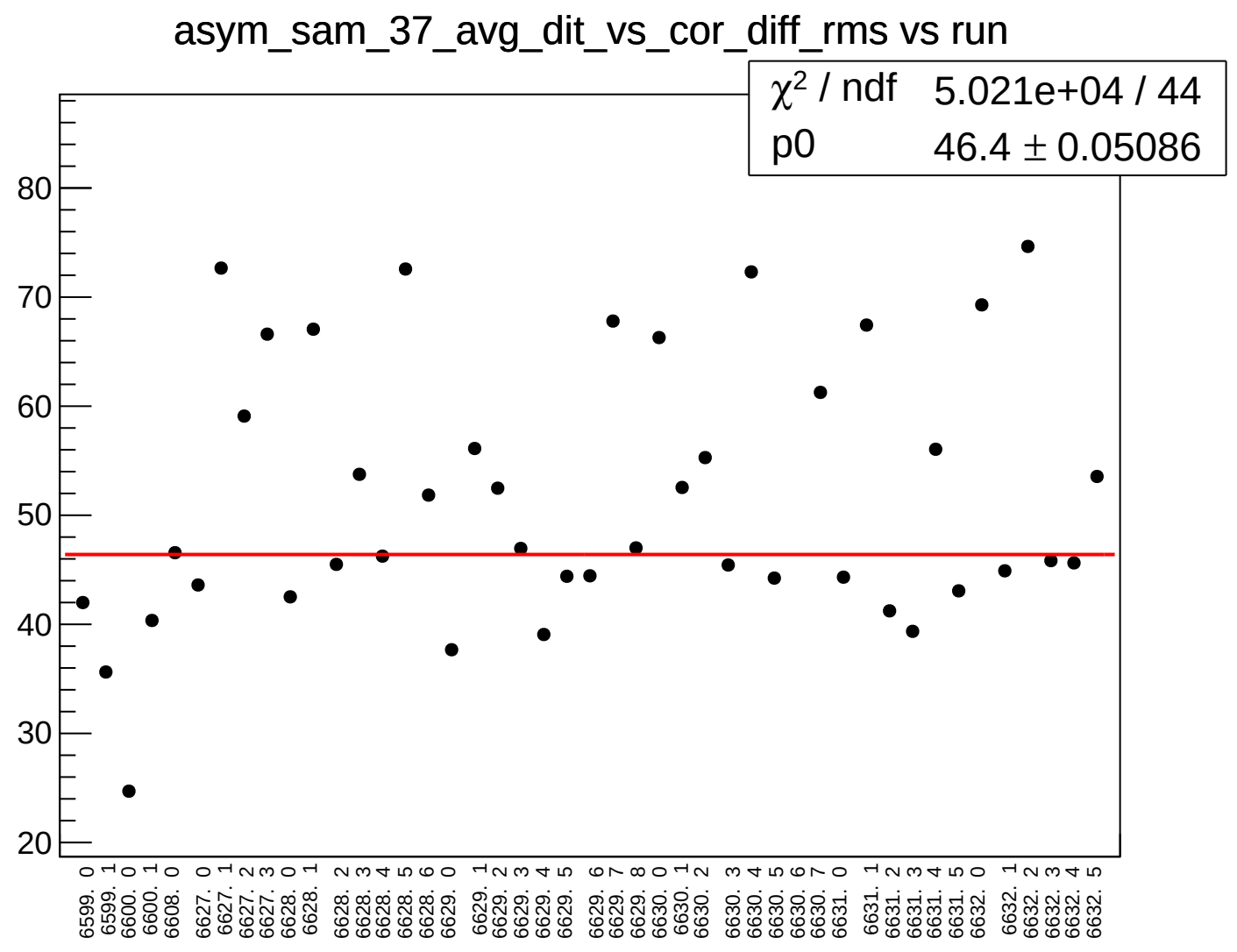

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 65.12 / 44
p0 −2.29e−14 ± 2.241e−14
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −7.286
Std Dev 0
3
2
1
0
−1
−2

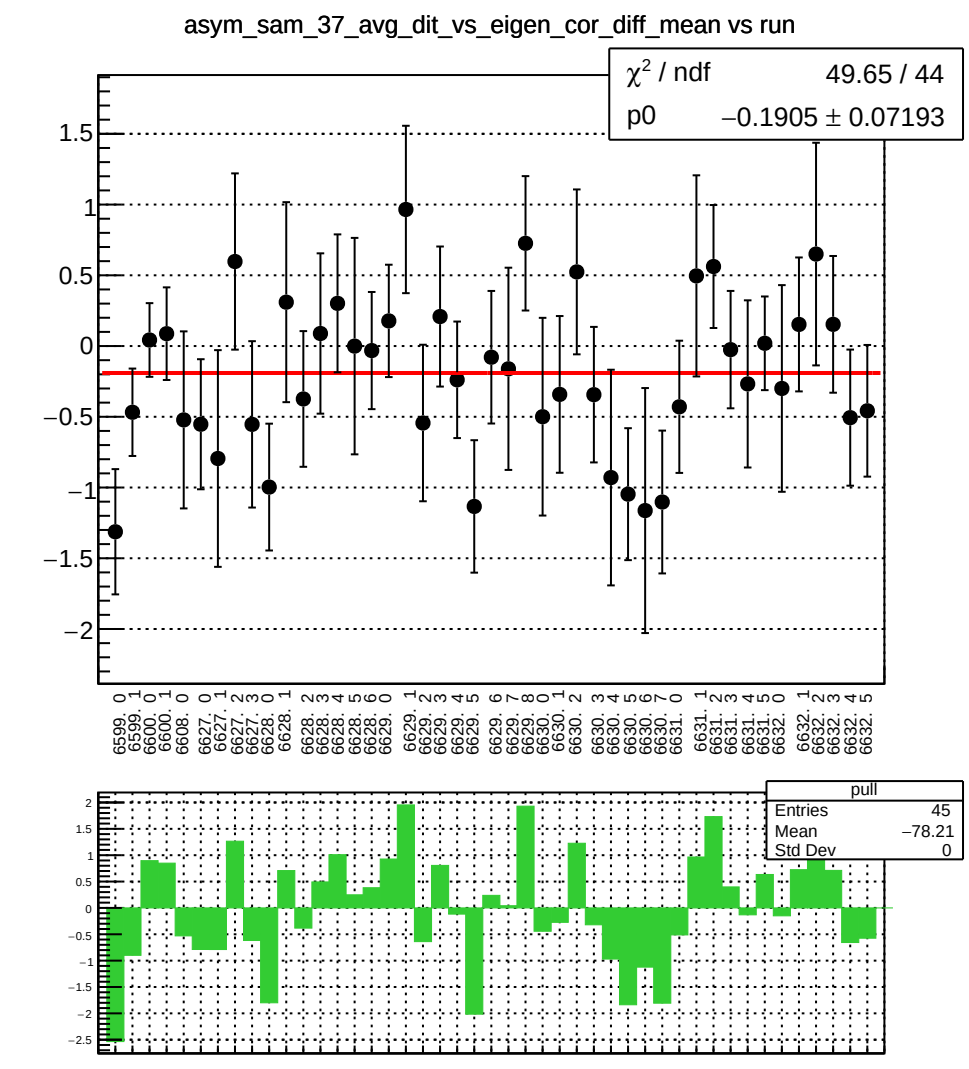

pull1D
Entries 45
Mean −0.04871
Std Dev 1.202
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

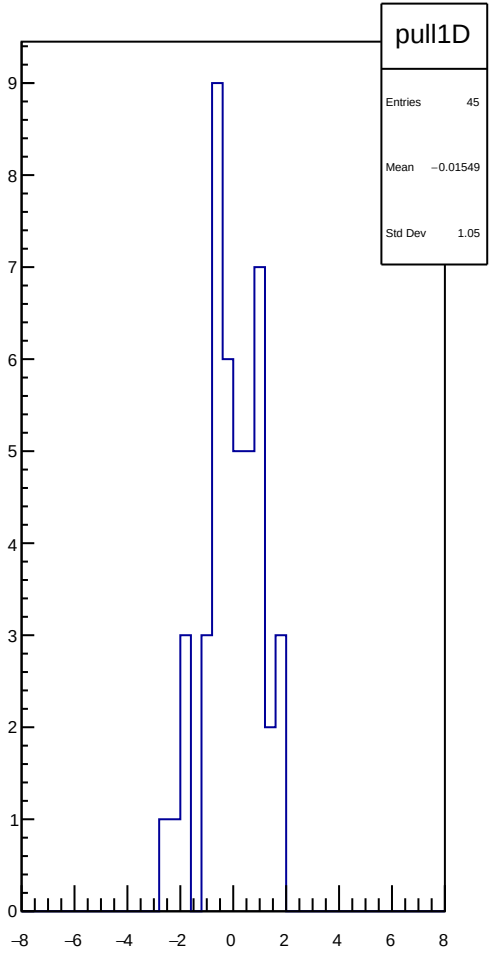

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 6.009e+05 / 44
p0 8.409e−12 ± 1.585e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

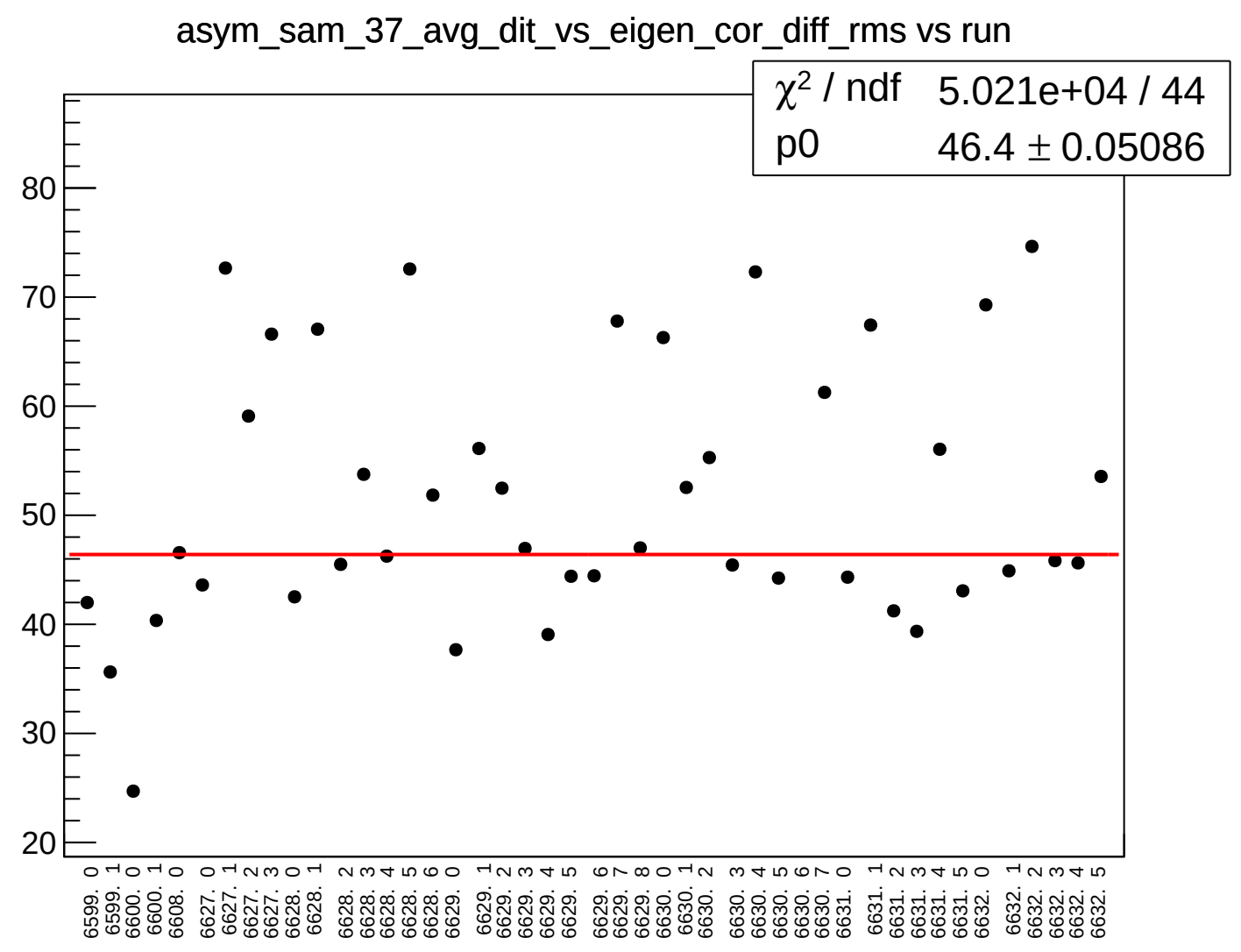

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 49.65 / 44
p0 −0.1905 ± 0.07193
pull
Entries 45
Mean −78.21
Std Dev 0

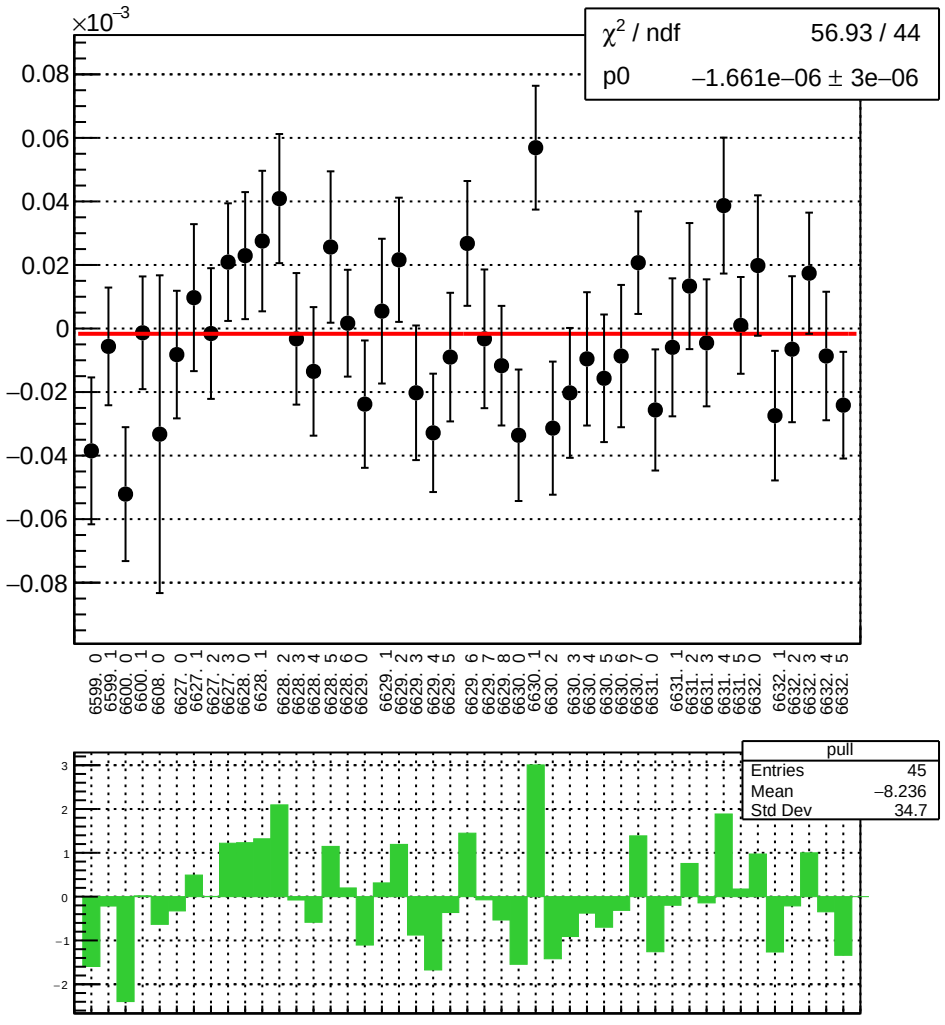

pull1D
Entries 45
Mean −0.01549
Std Dev 1.05

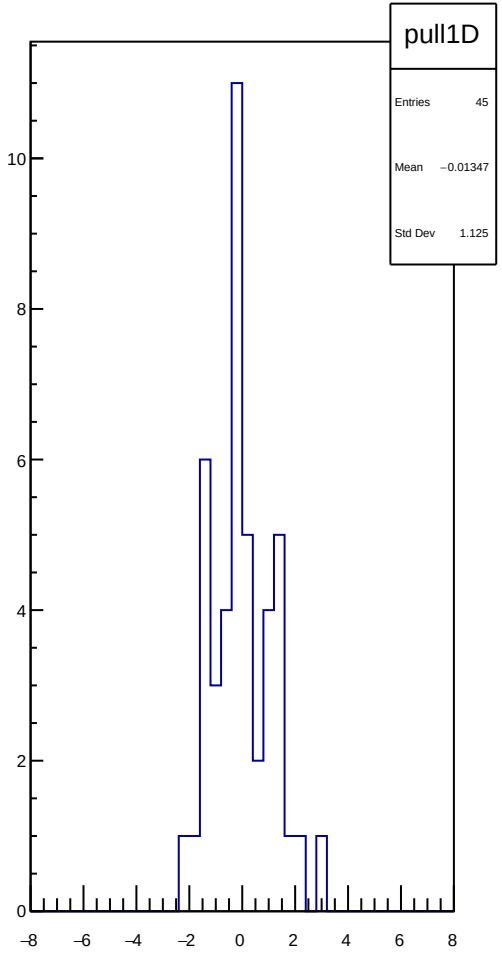

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.021e+04 / 44
p0 46.4 ± 0.05086
80
70
60
50
40
30
20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

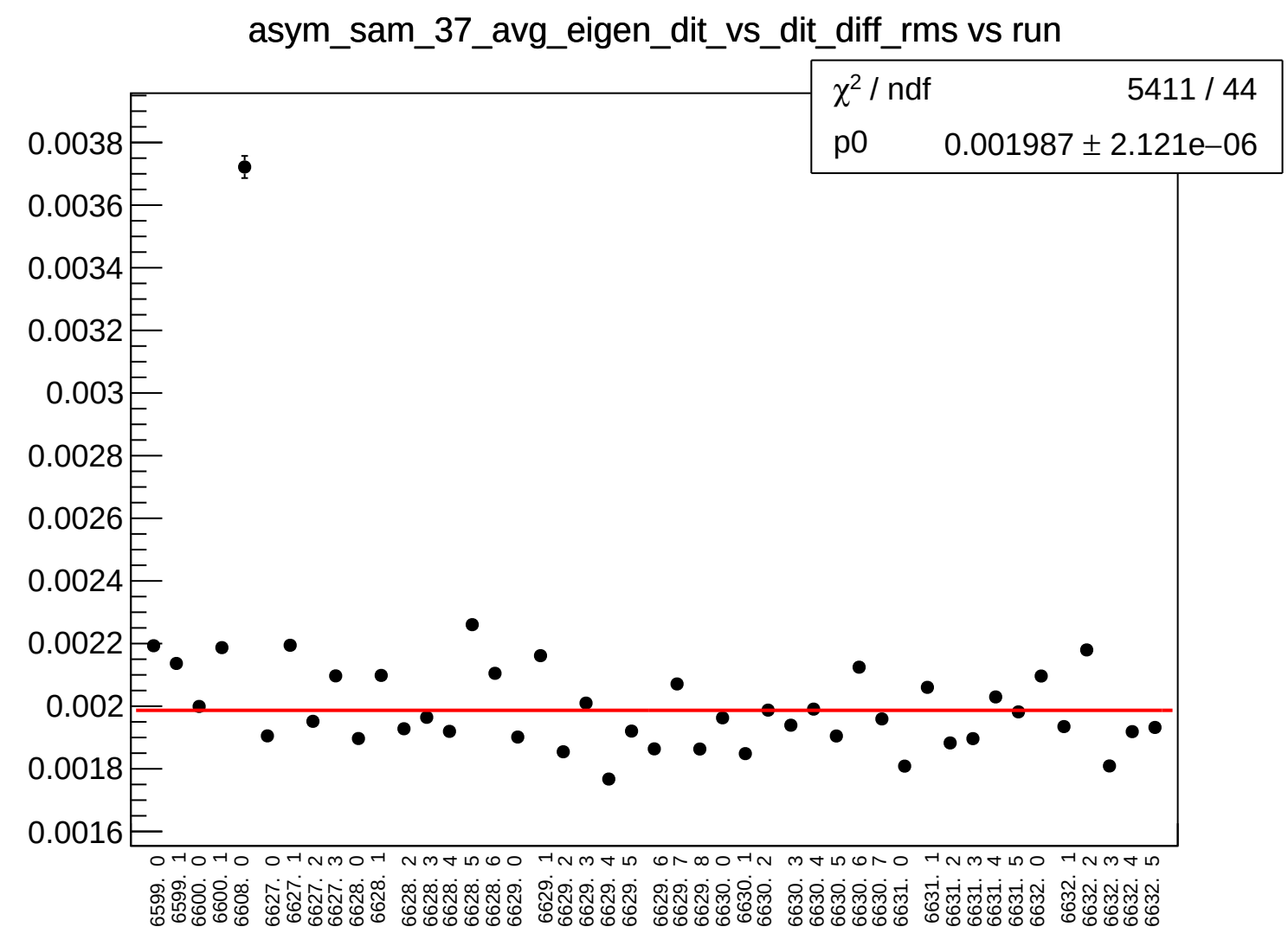

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.65 / 44
p0 −0.1905 ± 0.07193
pull
Entries 45
Mean −78.21
Std Dev 0

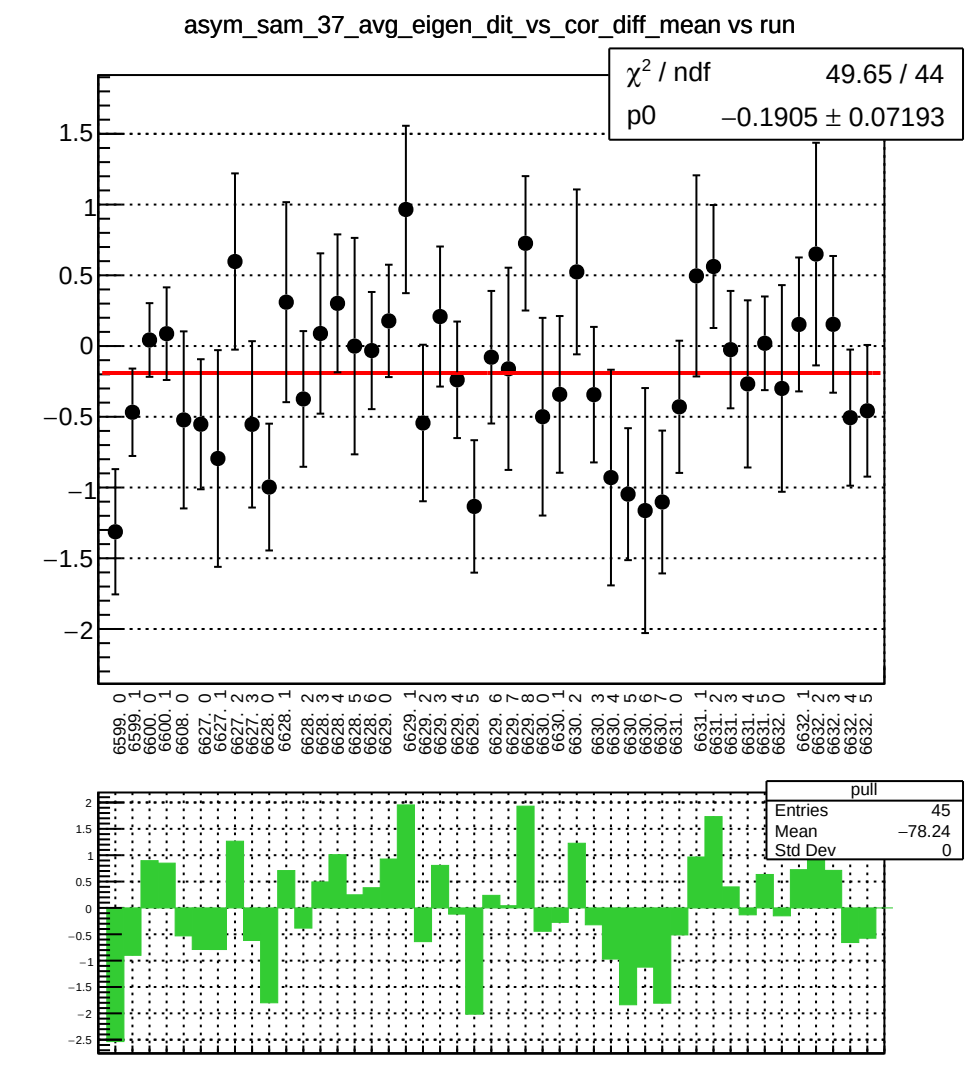

pull1D
Entries 45
Mean −0.01549
Std Dev 1.05

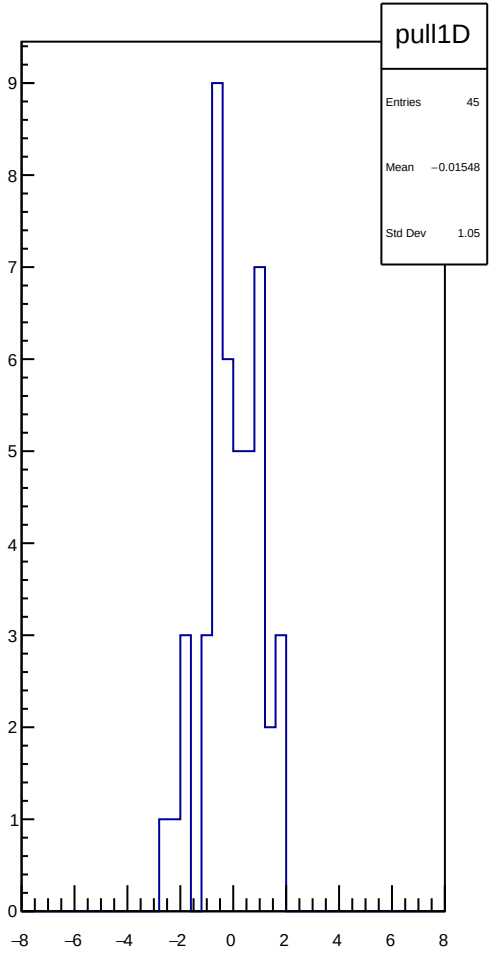

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.021e+04 / 44
p0 46.4 ± 0.05086
80
70
60
50
40
30
20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

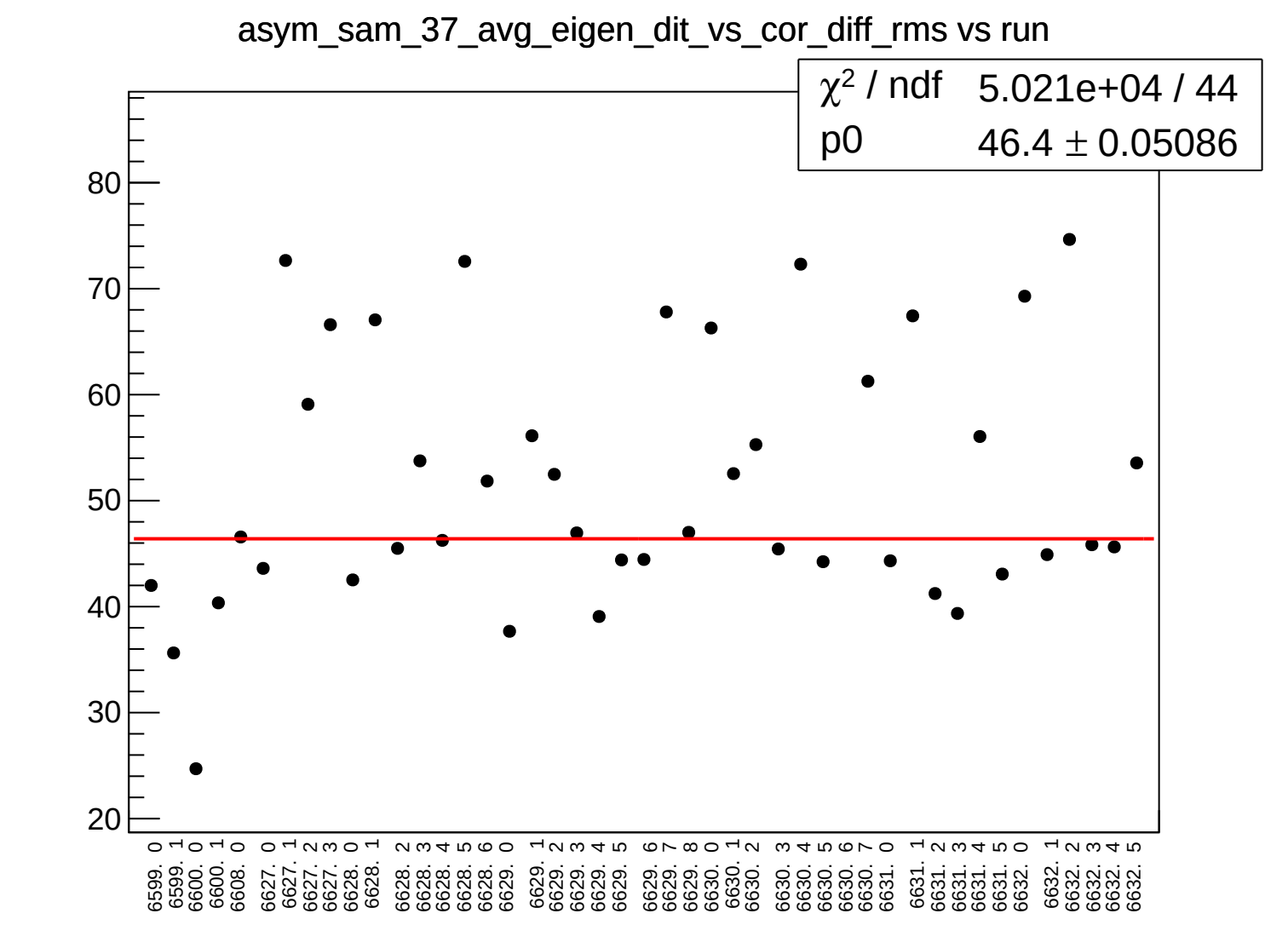

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 56.93 / 44
p0 −1.661e−06 ± 3e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −8.236
Std Dev 34.7
3
2
1
0
−1
−2

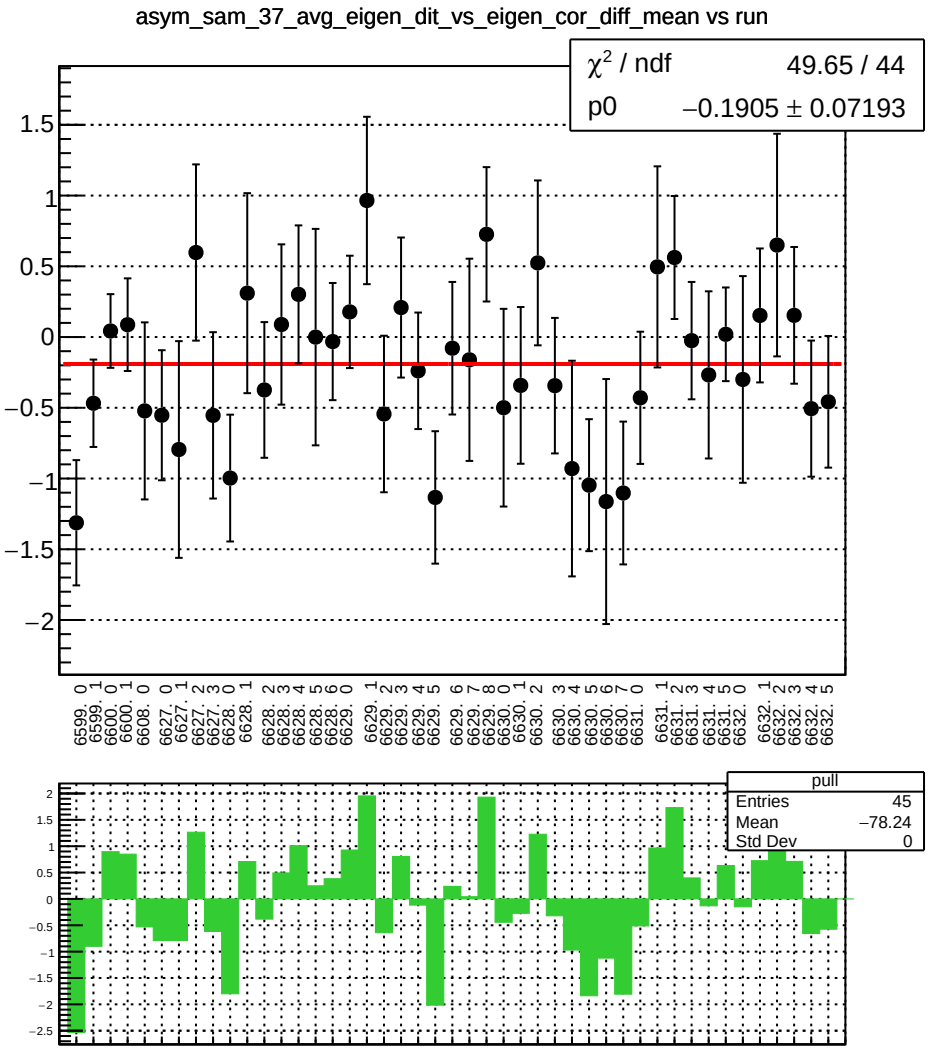

pull1D
Entries 45
Mean −0.01347
Std Dev 1.125
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

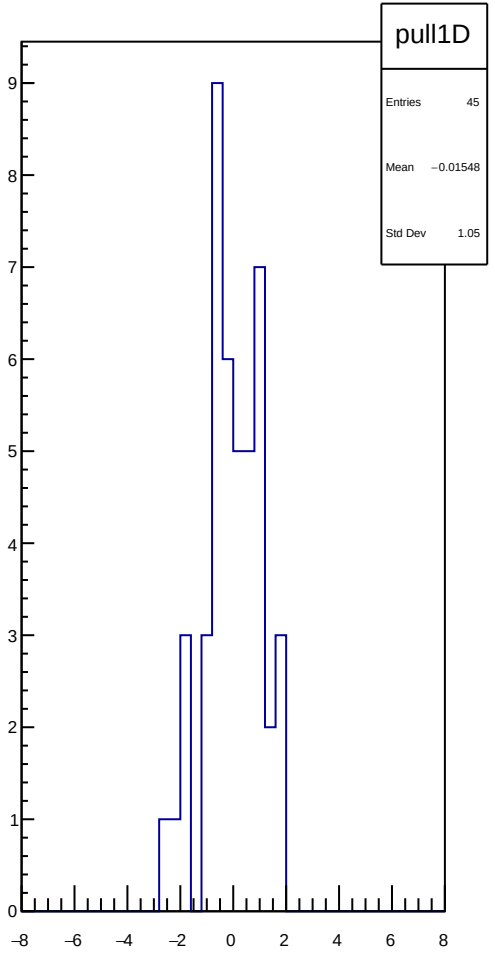

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5411 / 44
p0 0.001987 ± 2.121e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

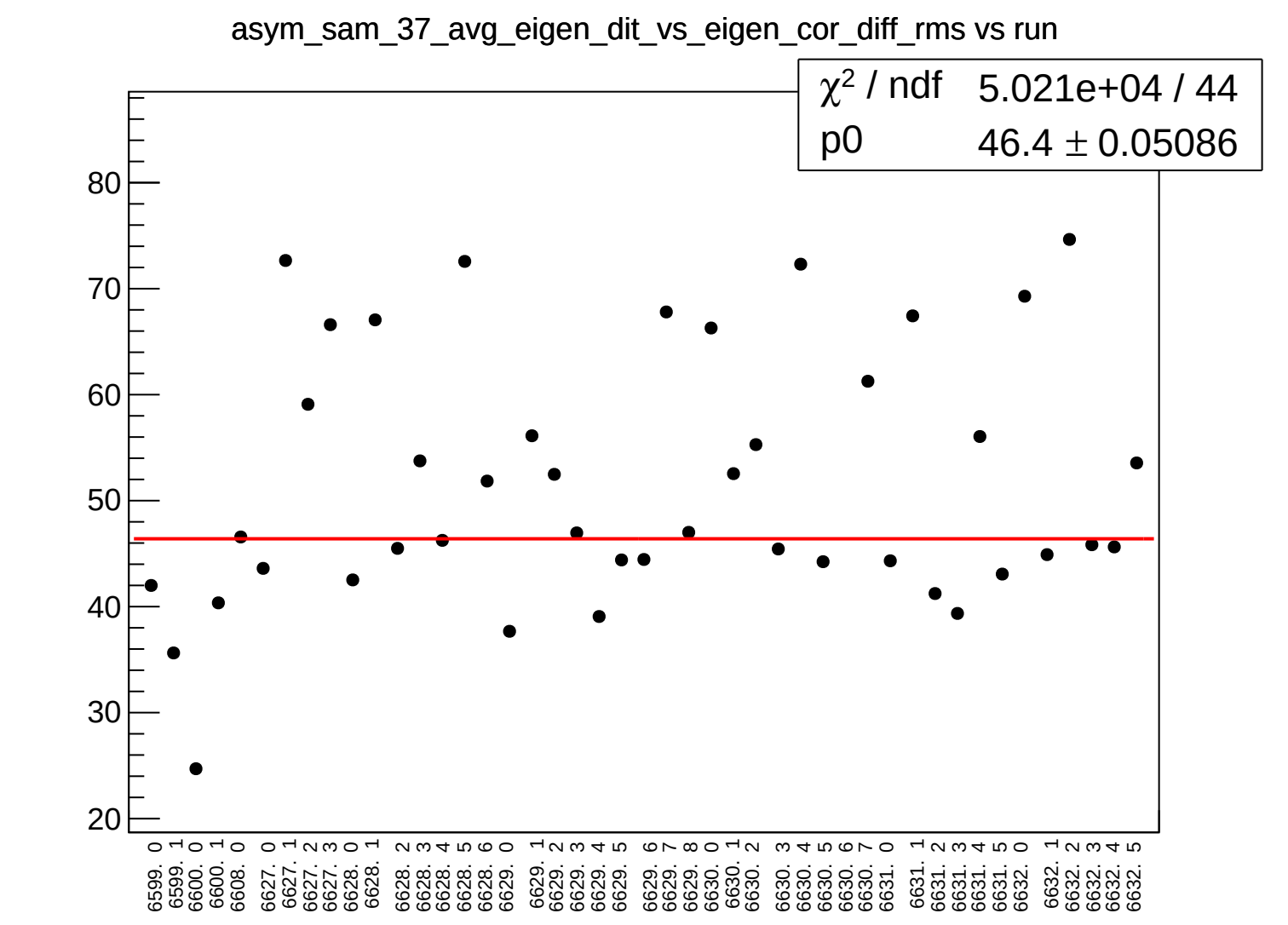

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 49.65 / 44
p0 −0.1905 ± 0.07193
pull
Entries 45
Mean −78.24
Std Dev 0

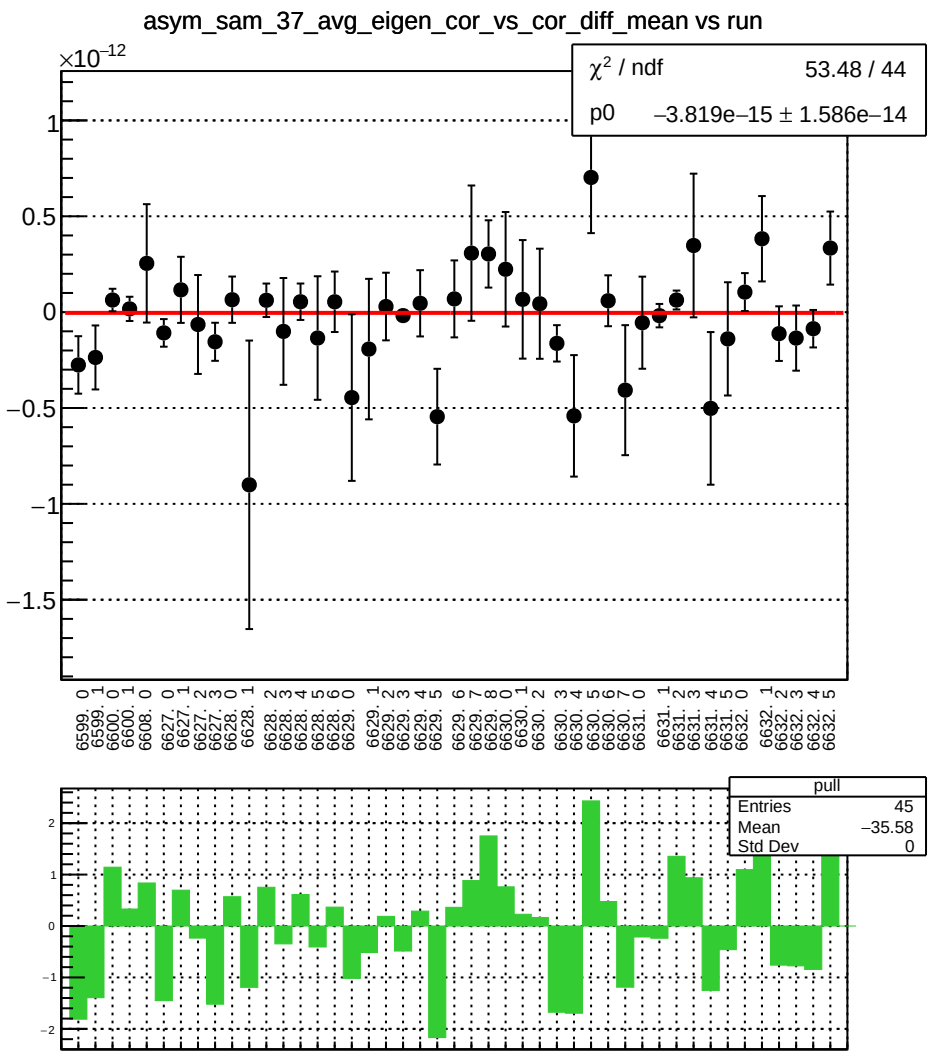

pull1D
Entries 45
Mean −0.01548
Std Dev 1.05

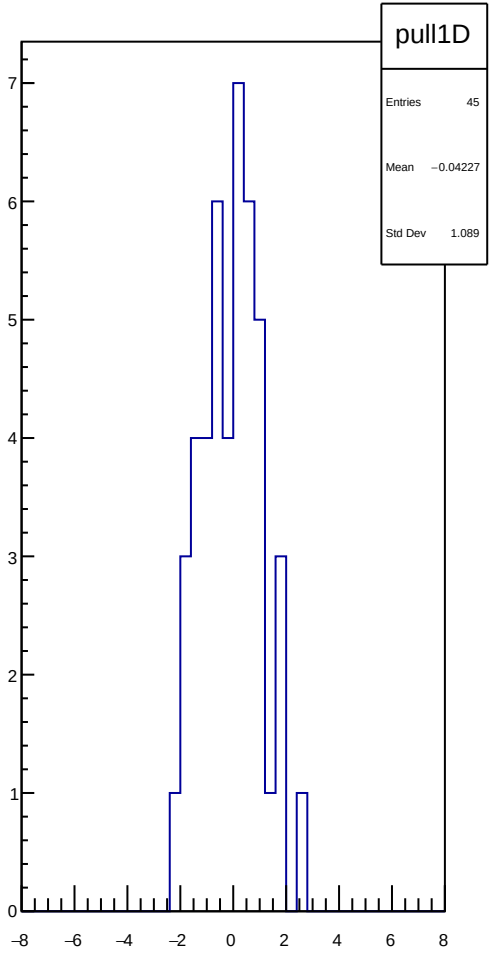

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.021e+04 / 44
p0 46.4 ± 0.05086
80
70
60
50
40
30
20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

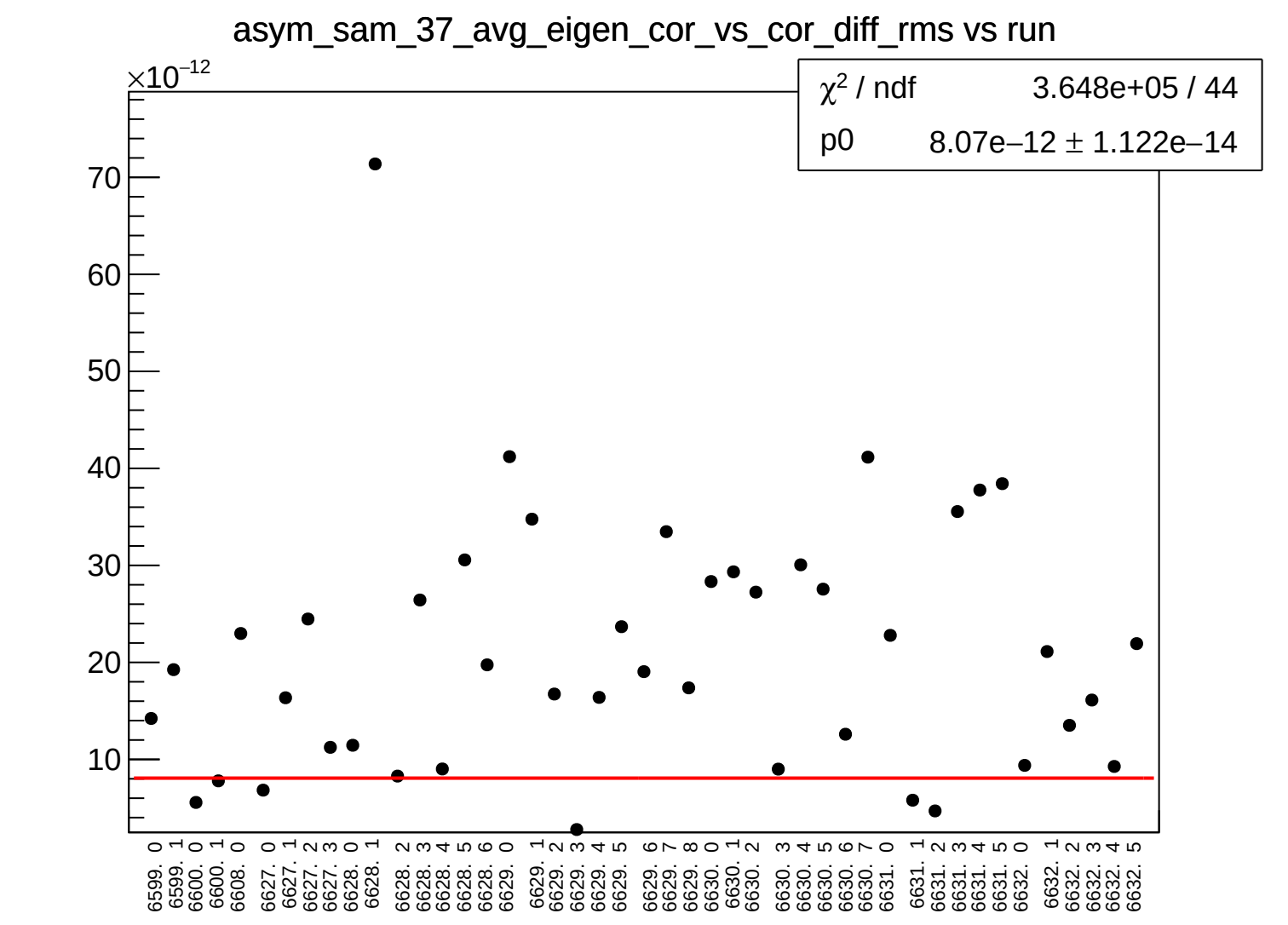

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.65 / 44
p0 −0.1905 ± 0.07193
pull
Entries 45
Mean −78.24
Std Dev 0

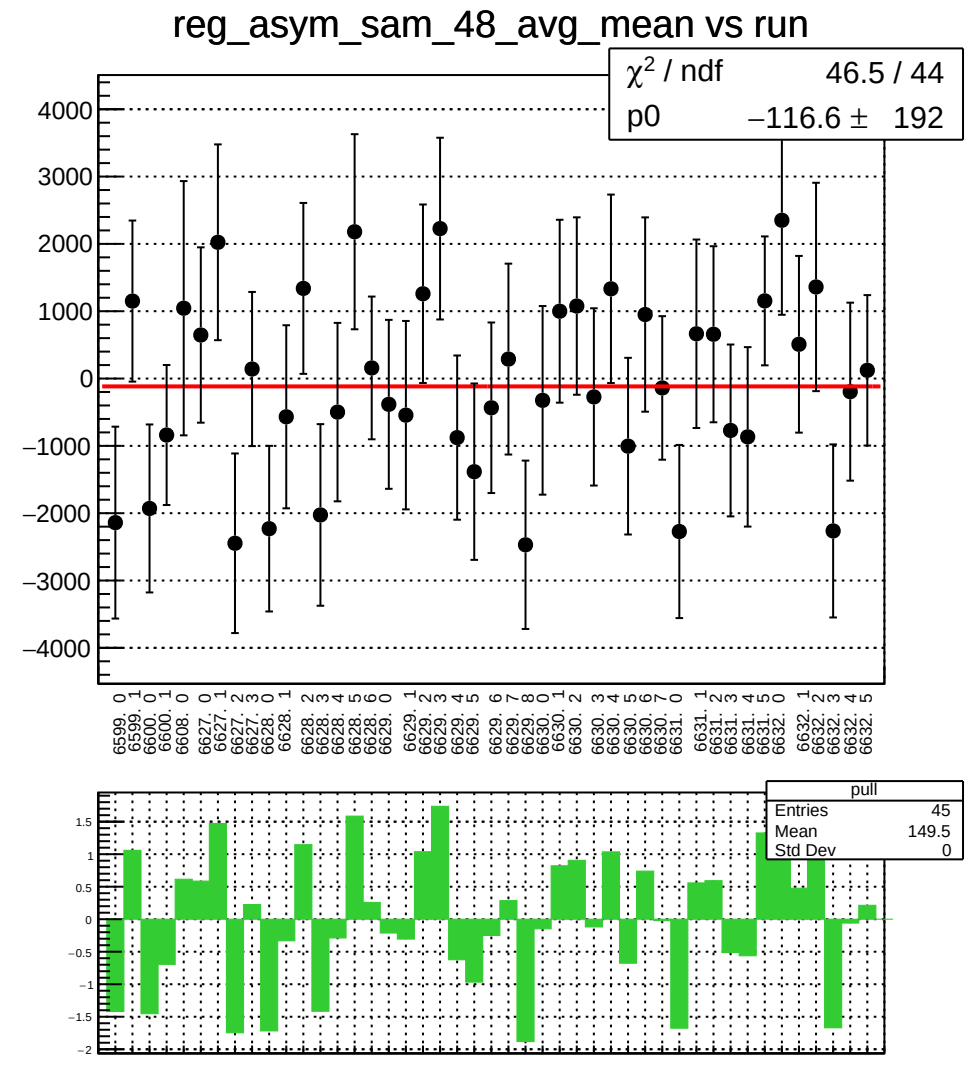

pull1D
Entries 45
Mean −0.01548
Std Dev 1.05

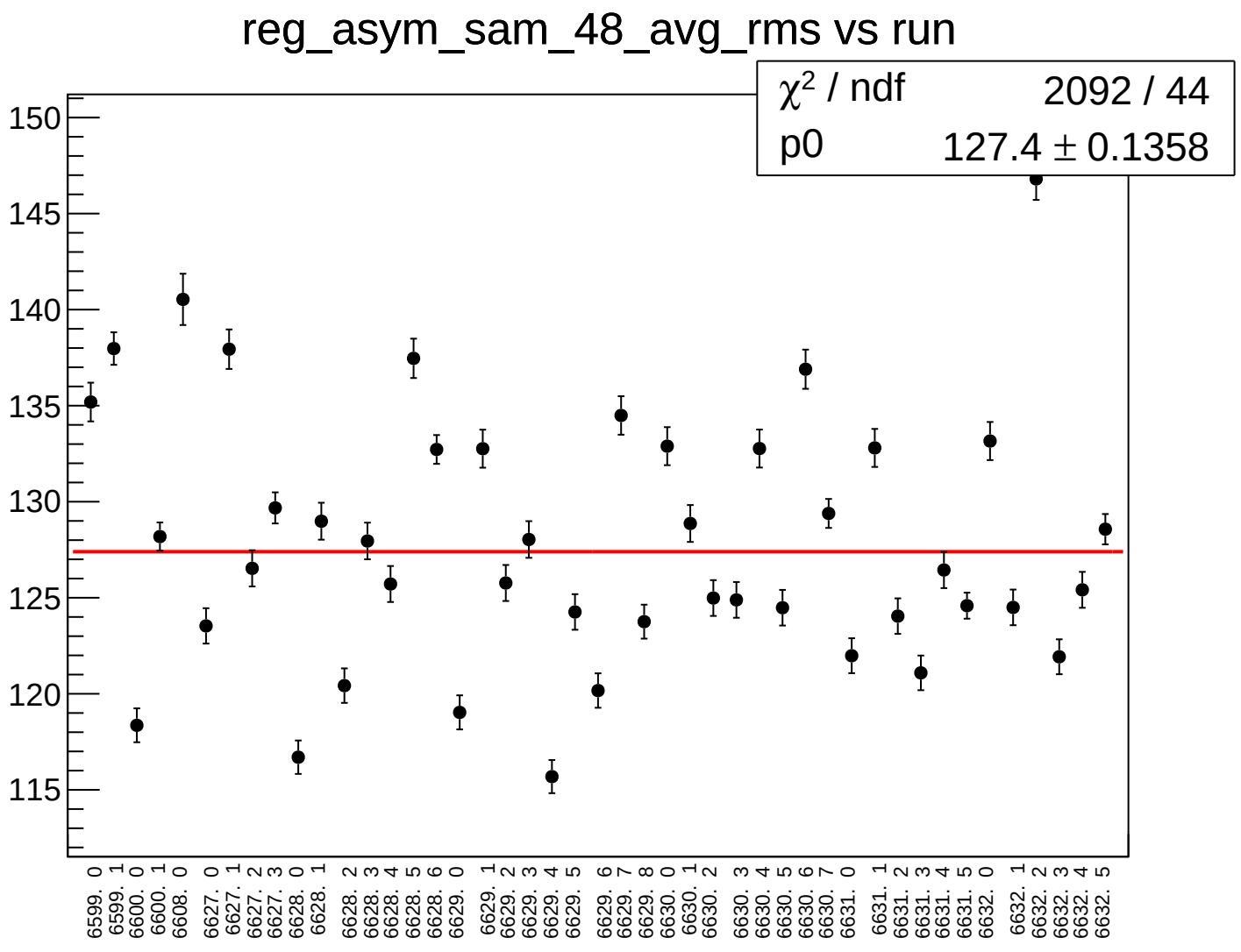

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.021e+04 / 44
p0 46.4 ± 0.05086
80
70
60
50
40
30
20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 53.48 / 44
p0 −3.819e−15 ± 1.586e−14
pull
Entries 45
Mean −35.58
Std Dev 0


pull1D
Entries 45
Mean −0.04227
Std Dev 1.089


asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.648e+05 / 44
p0 8.07e−12 ± 1.122e−14
70
60
50
40
30
20
10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


reg_asym_sam_48_avg_mean vs run
χ² / ndf 46.5 / 44
p0 −116.6 ± 192
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 149.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01417
Std Dev 1.016
9
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 2092 / 44
p0 127.4 ± 0.1358
150
145
140
135
130
125
120
115
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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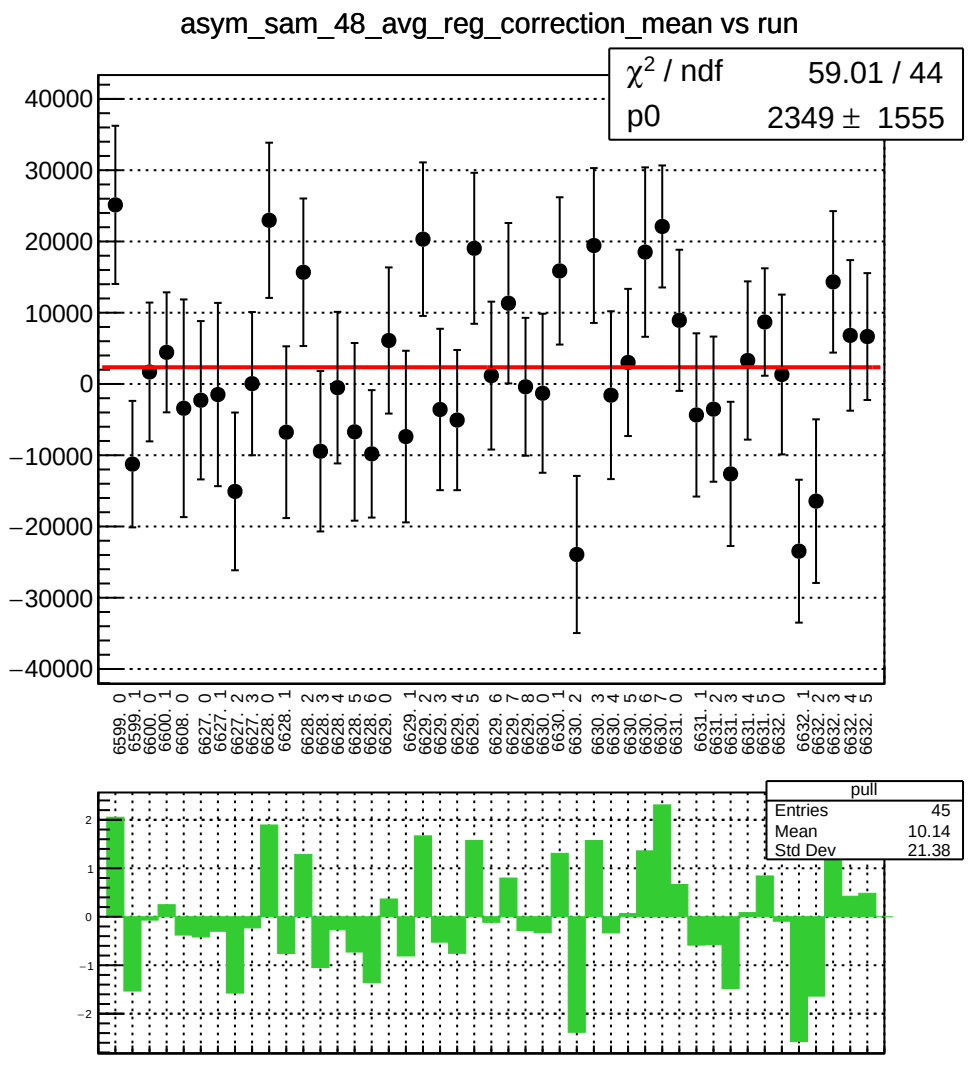
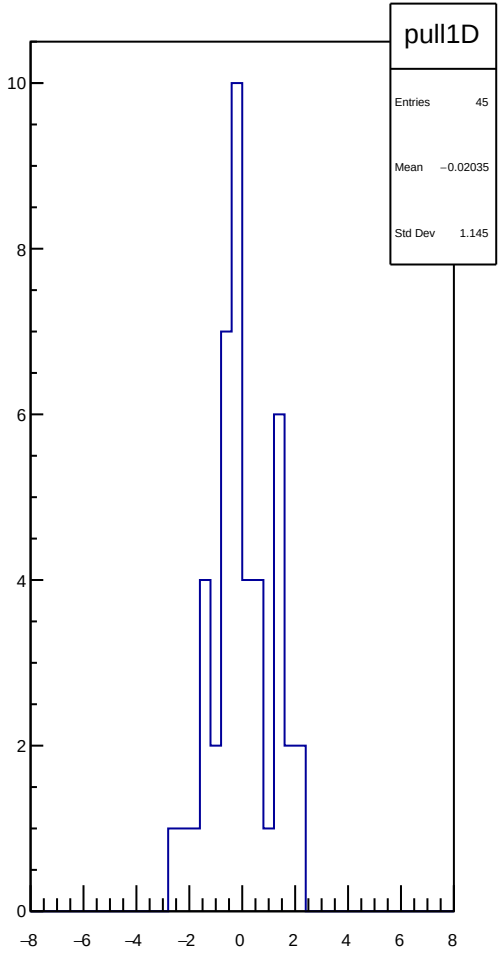
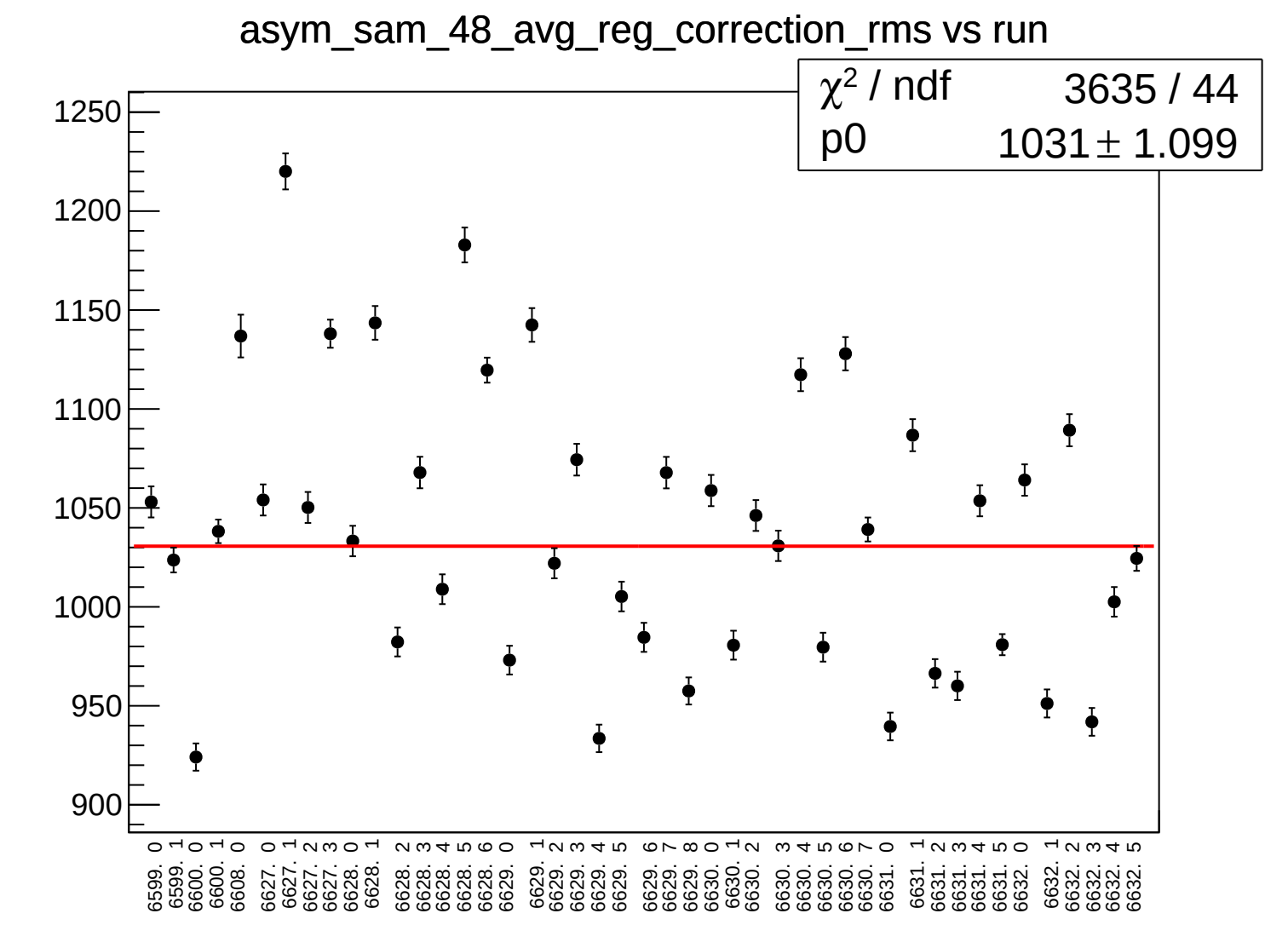
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 59.01 / 44
p0 2349 ± 1555
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 10.14
Std Dev 21.38
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.02035
Std Dev 1.145
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 3635 / 44
p0 1031 ± 1.099
1250
1200
1150
1100
1050
1000
950
900
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
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6632. 0
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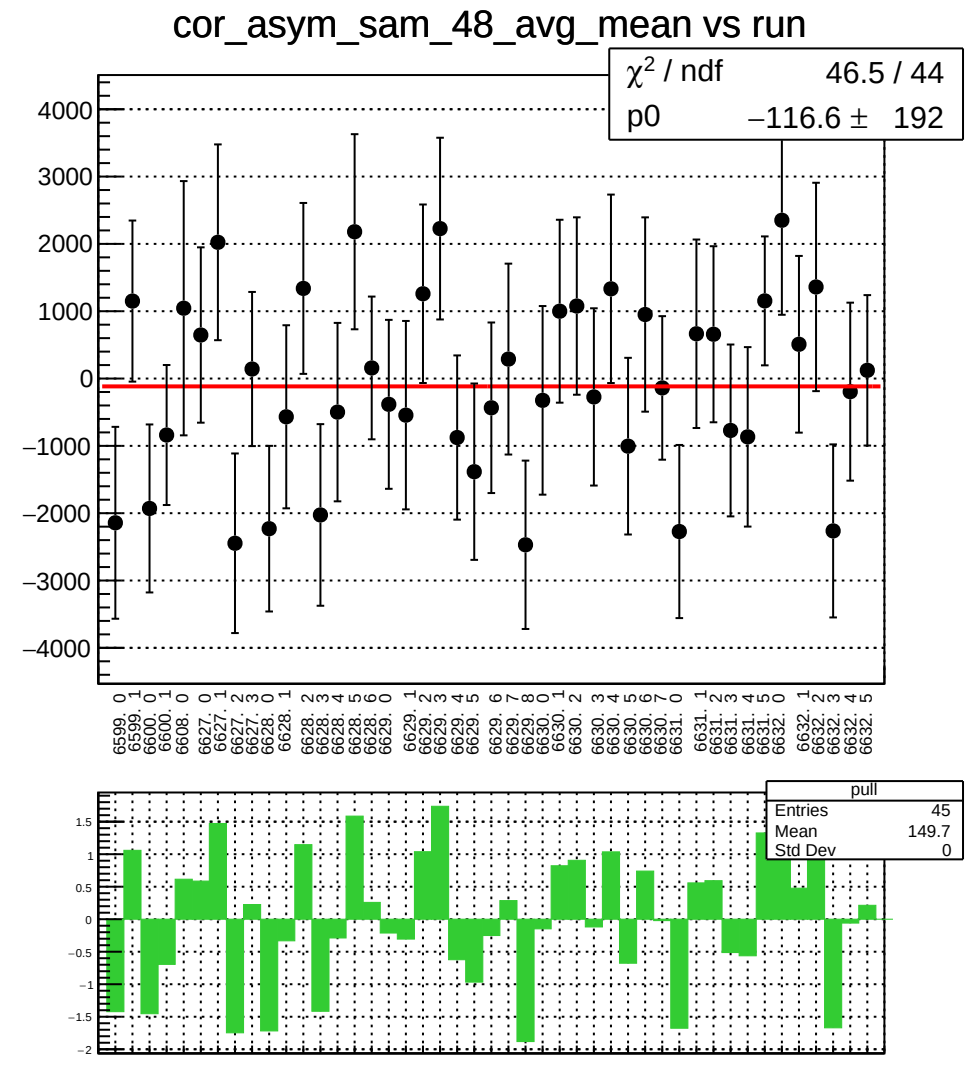
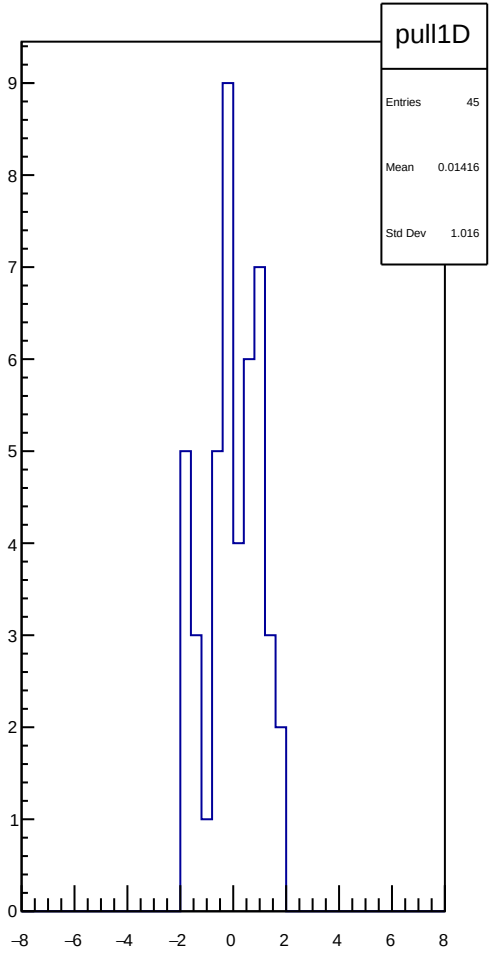
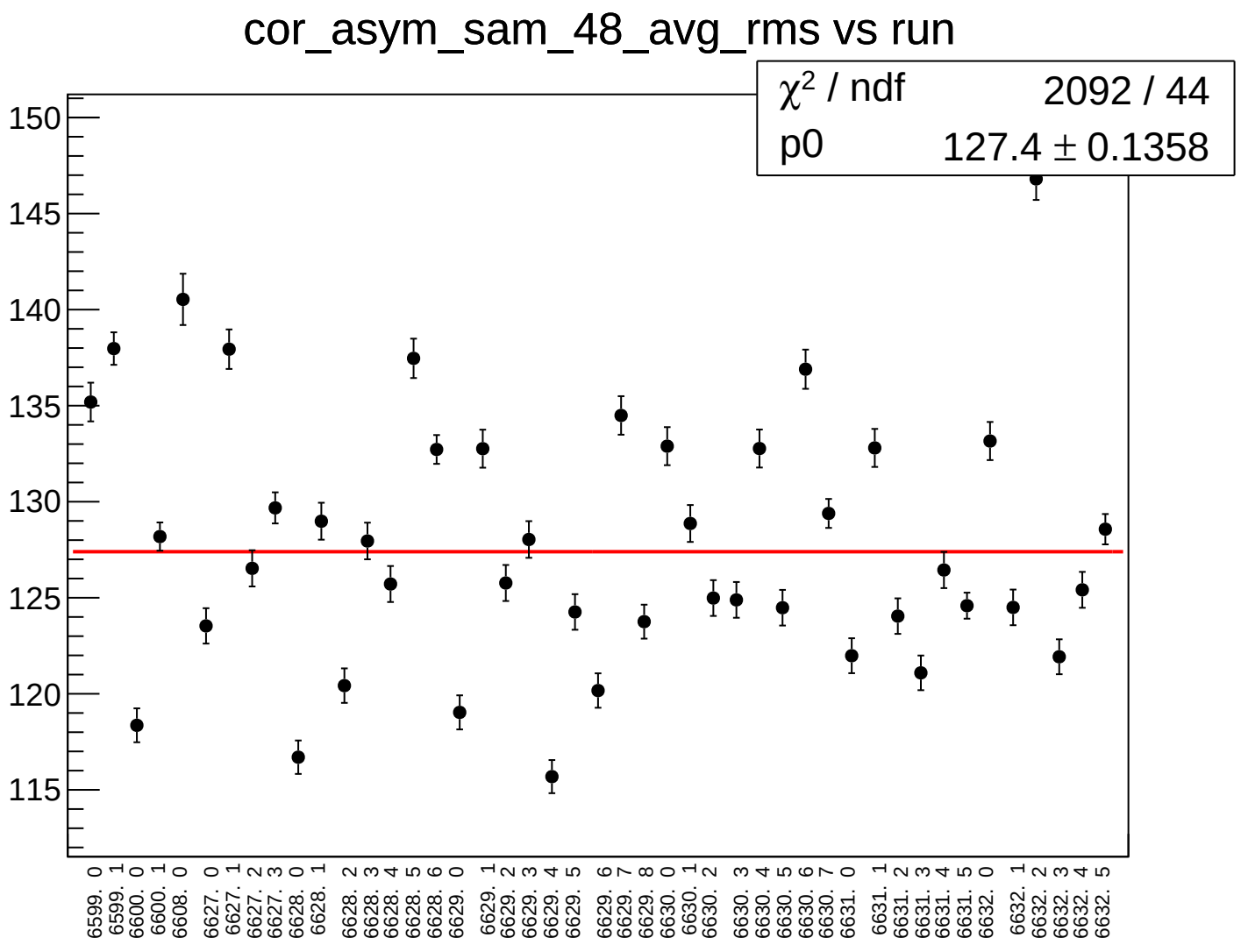
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_sam_48_avg_mean vs run
χ² / ndf 46.5 / 44
p0 −116.6 ± 192
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 149.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.01416
Std Dev 1.016
9
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 2092 / 44
p0 127.4 ± 0.1358
150
145
140
135
130
125
120
115
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 3
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6628. 4
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
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6630. 6
6630. 7
6631. 0
6631. 1
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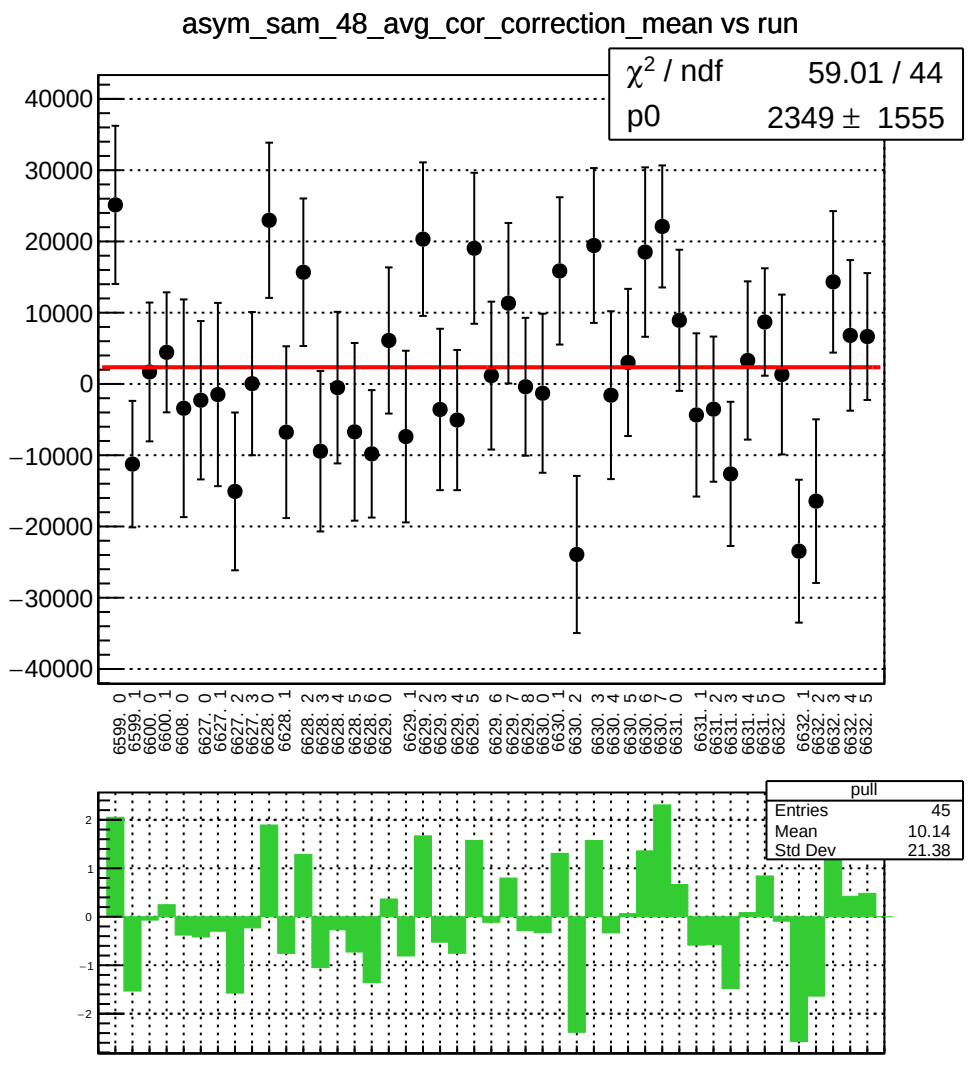
6632. 5


asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 59.01 / 44
p0 2349 ± 1555
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
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6629. 6
6629. 7
6629. 8
6630. 0
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6630. 2
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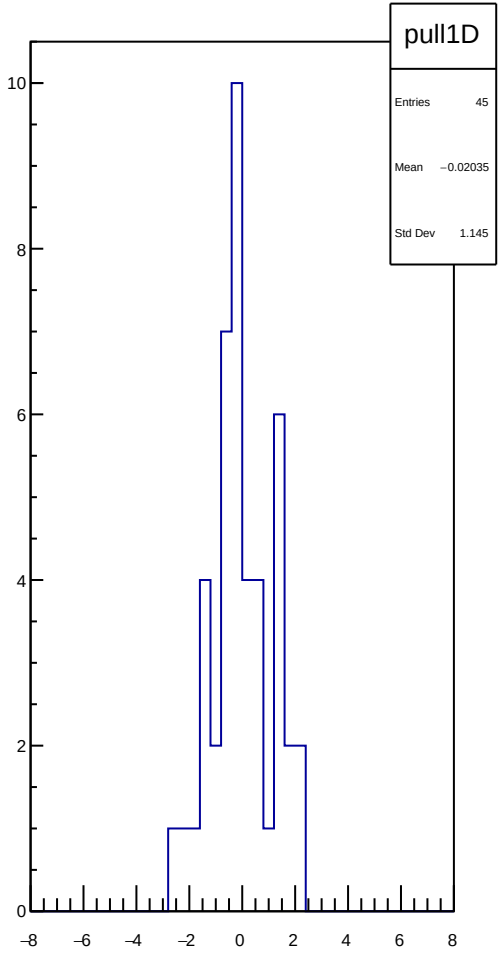
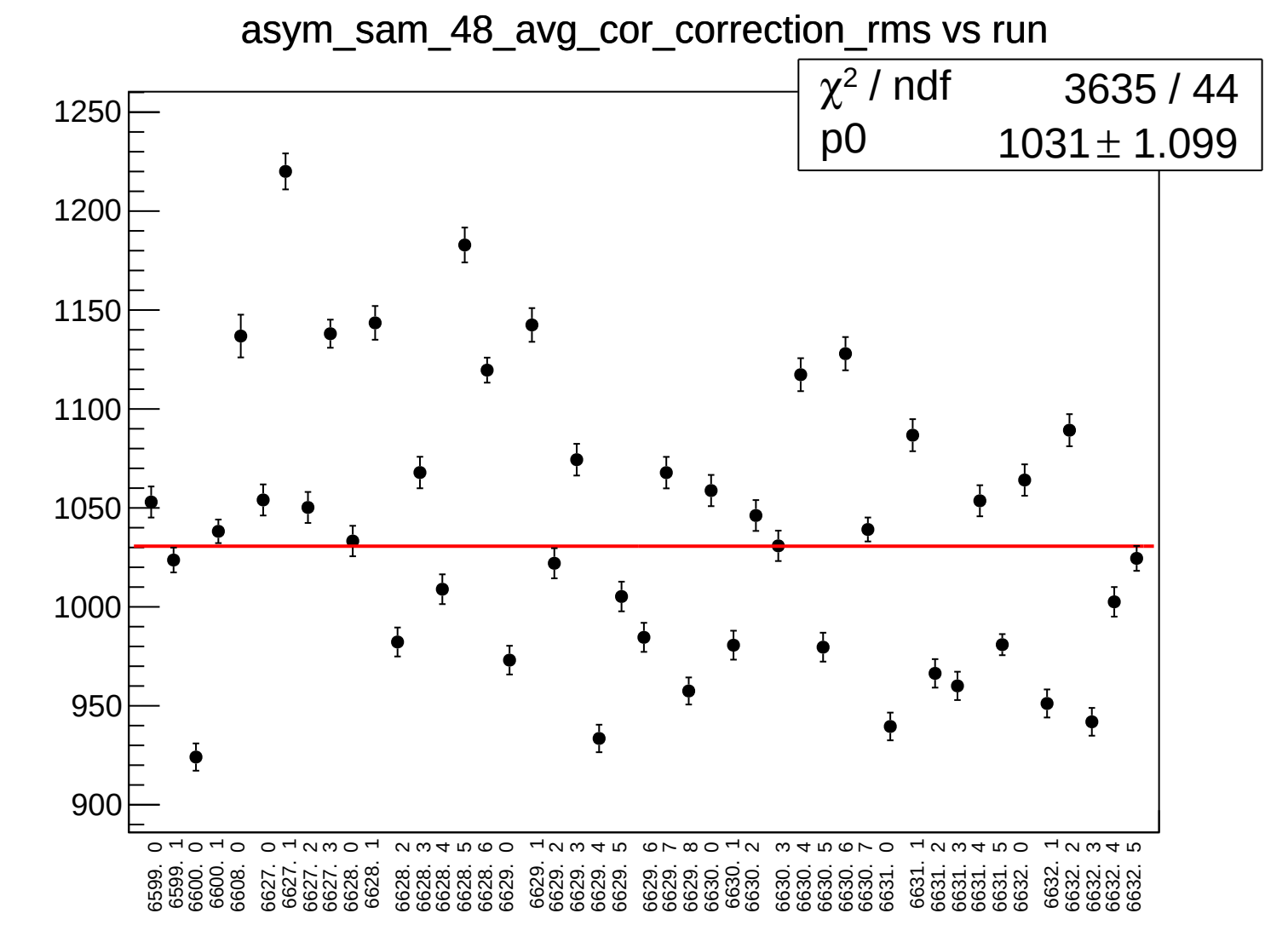
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 10.14
Std Dev 21.38
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.02035
Std Dev 1.145
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 3635 / 44
p0 1031 ± 1.099
1250
1200
1150
1100
1050
1000
950
900
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 5
6628. 6
6629. 0
6629. 1
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6629. 4
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6629. 7
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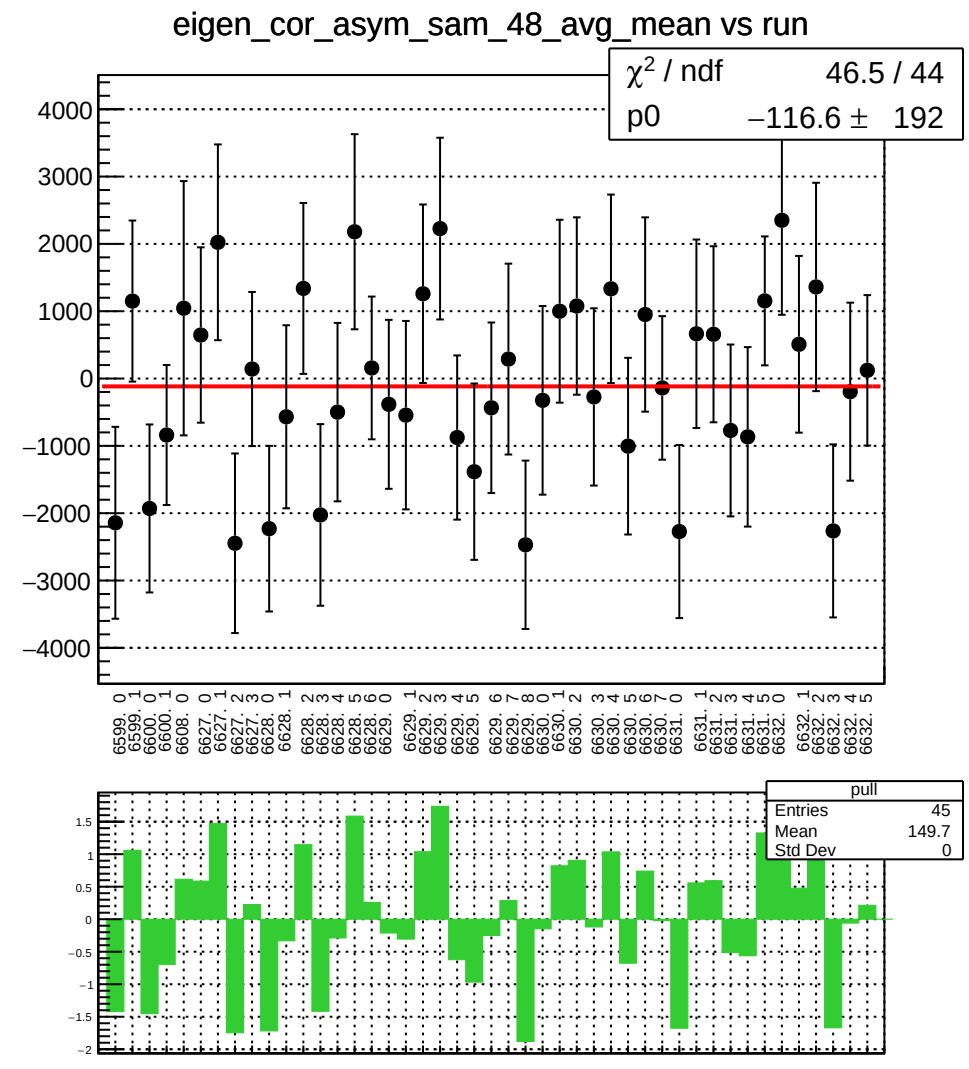
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 46.5 / 44
p0 −116.6 ± 192
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 7
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6630. 1
6630. 2
6630. 3
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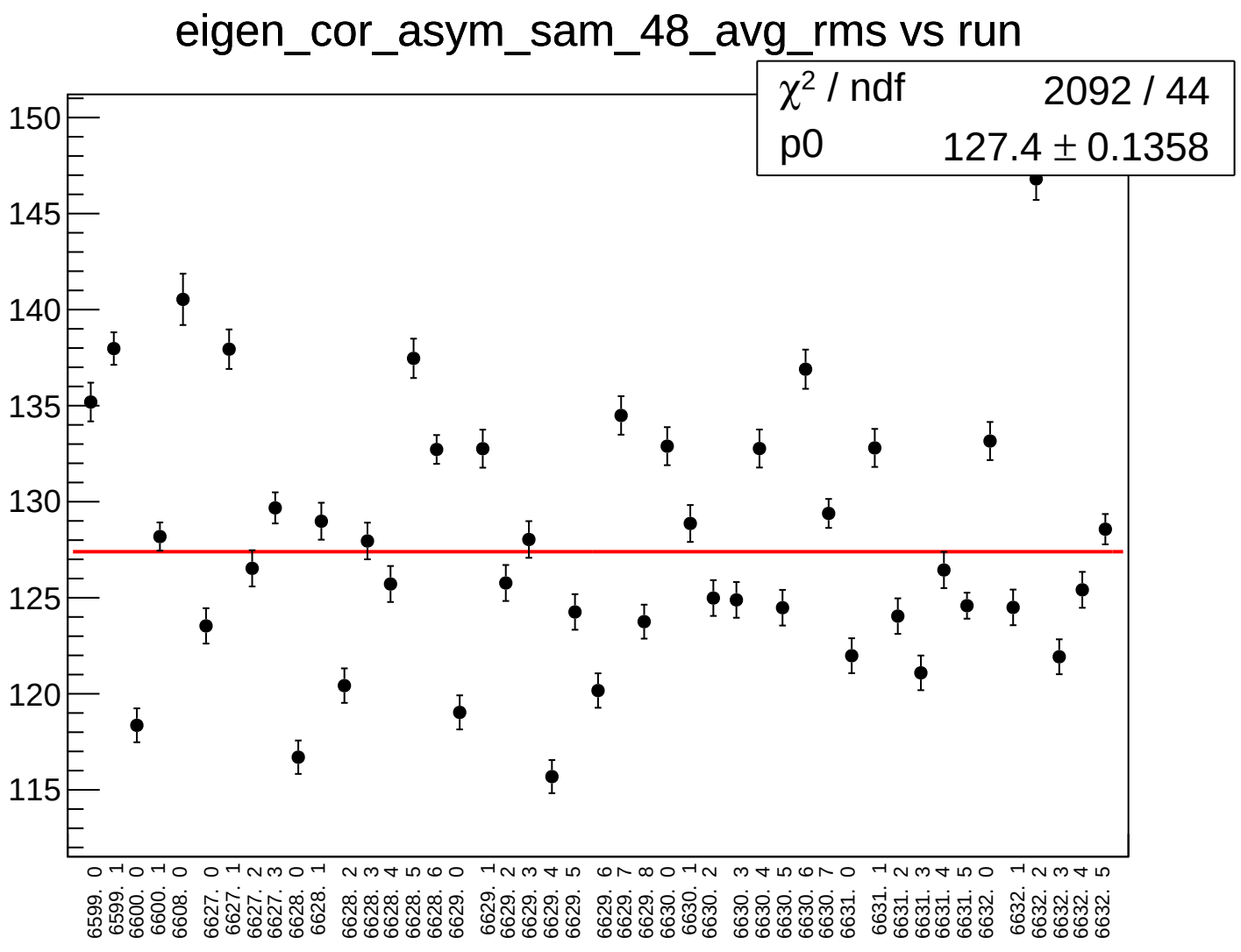
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 149.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01416
Std Dev 1.016
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 2092 / 44
p0 127.4 ± 0.1358
150
145
140
135
130
125
120
115
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6630. 1
6630. 2
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6630. 7
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6631. 1
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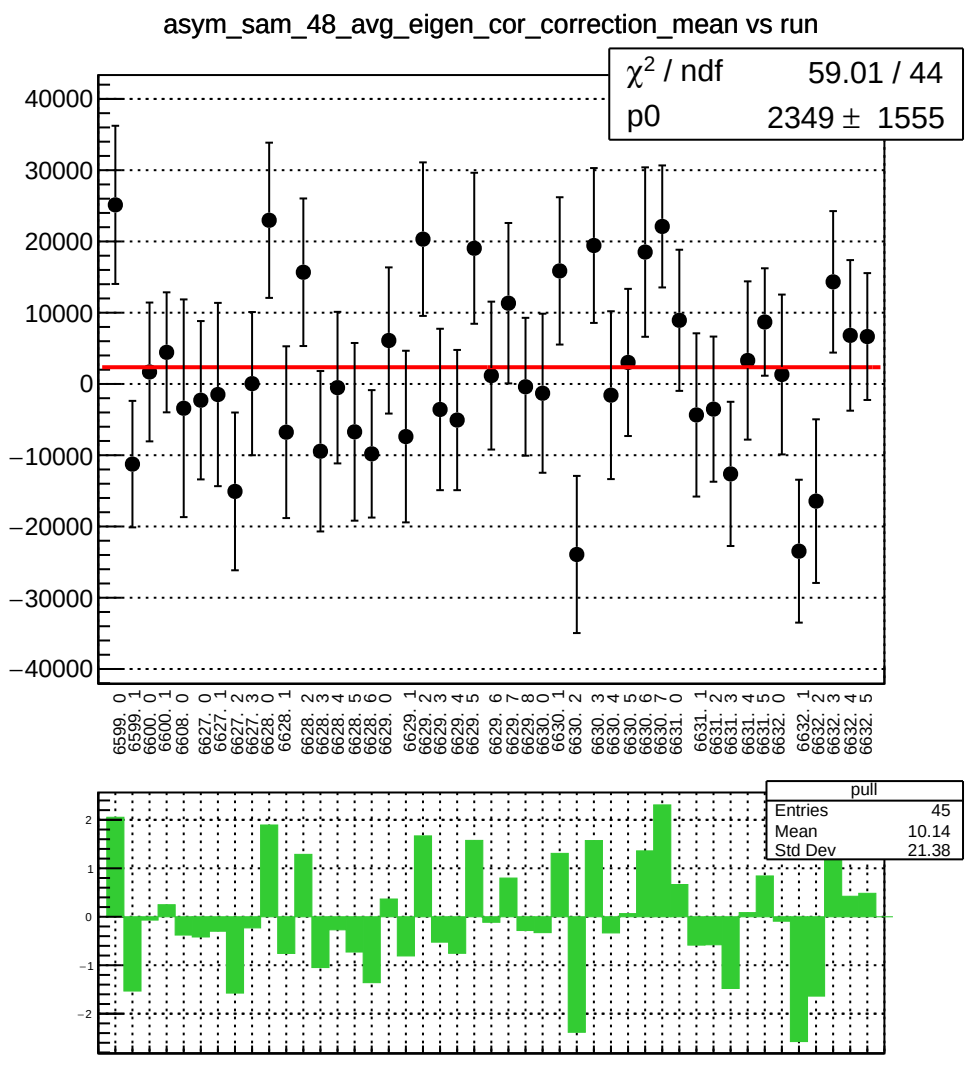
asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 59.01 / 44
p0 2349 ± 1555
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 2
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6631. 0
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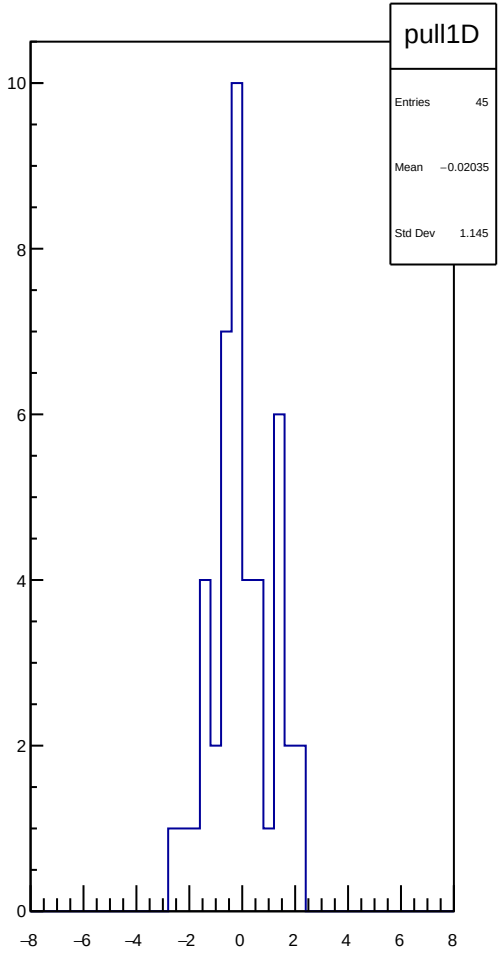
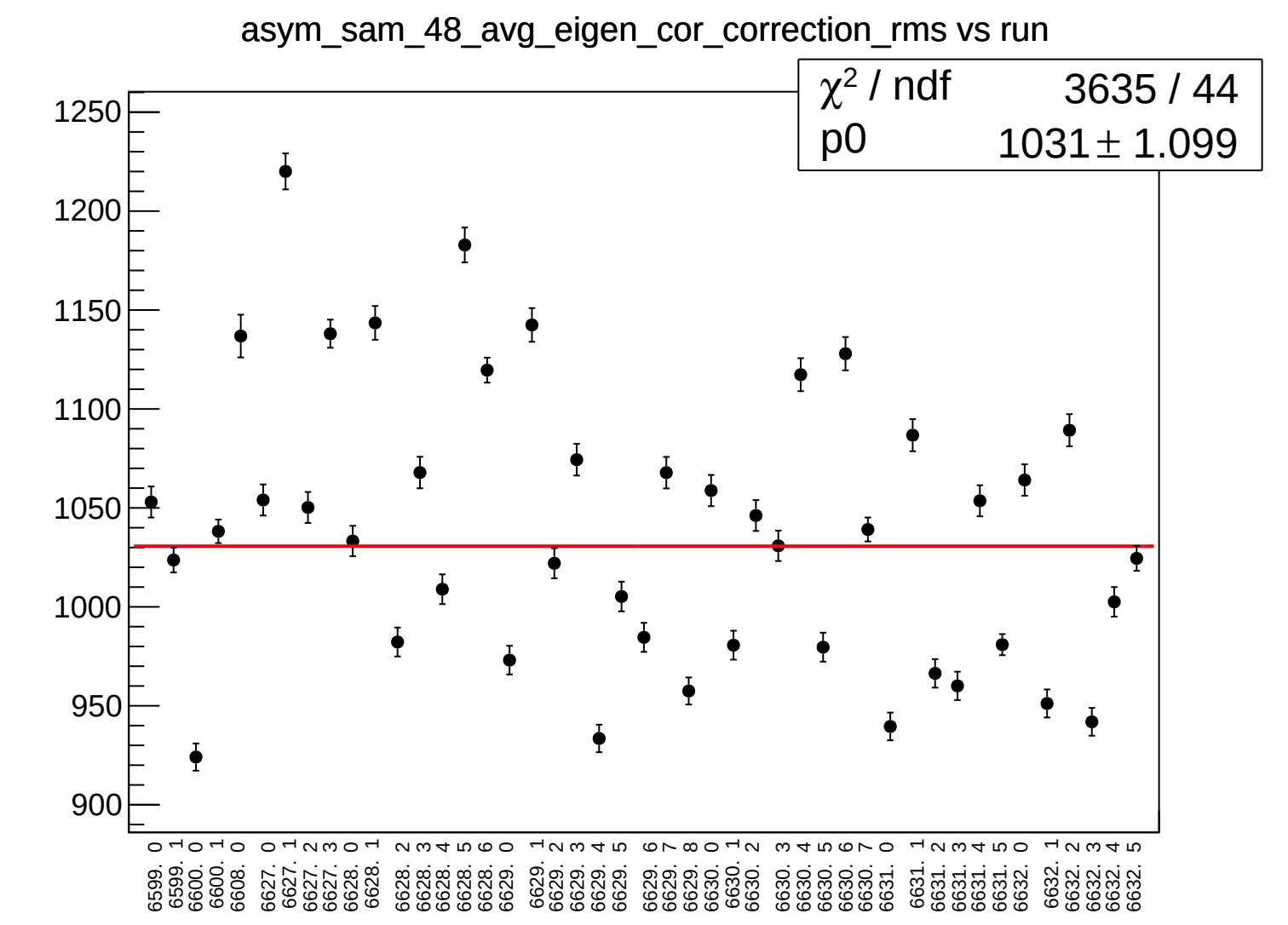
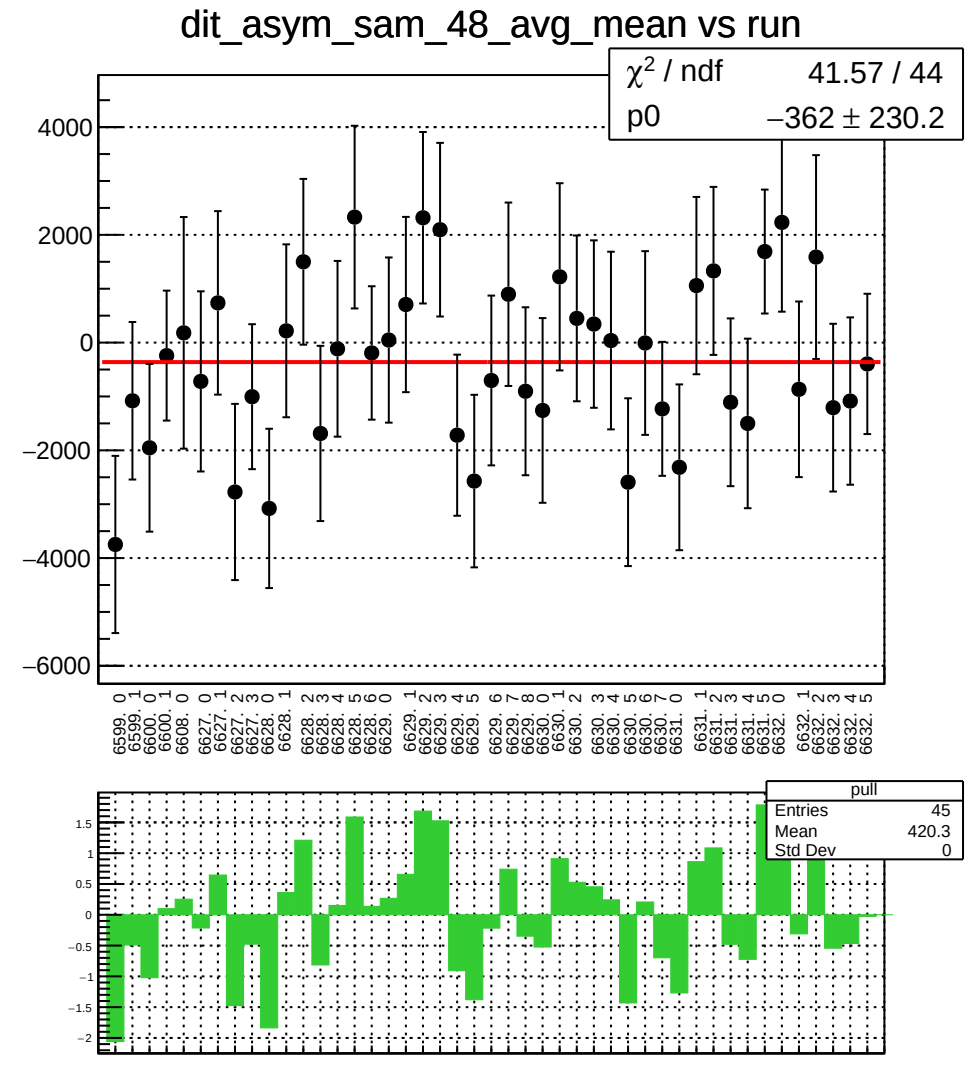
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 10.14
Std Dev 21.38
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.02035
Std Dev 1.145
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 3635 / 44
p0 1031 ± 1.099
1250
1200
1150
1100
1050
1000
950
900
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


dit_asym_sam_48_avg_mean vs run
χ² / ndf 41.57 / 44
p0 −362 ± 230.2
4000
2000
0
−2000
−4000
−6000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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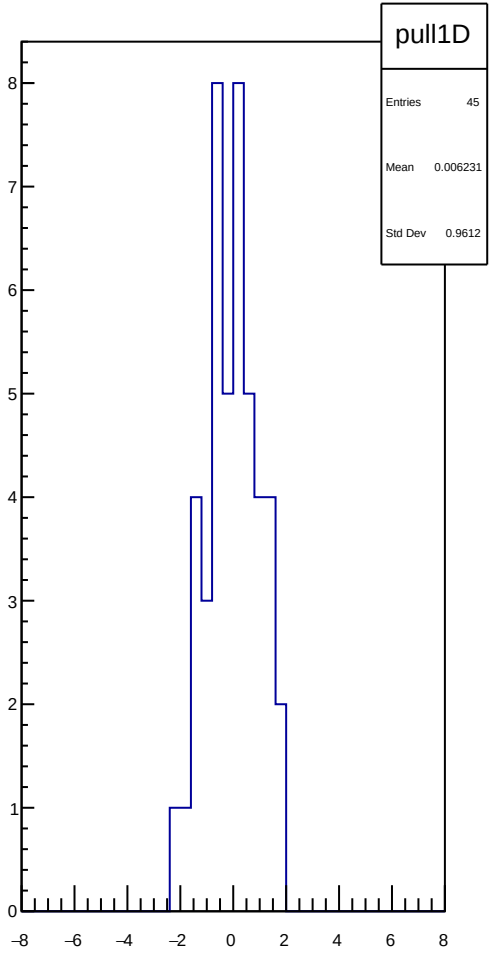
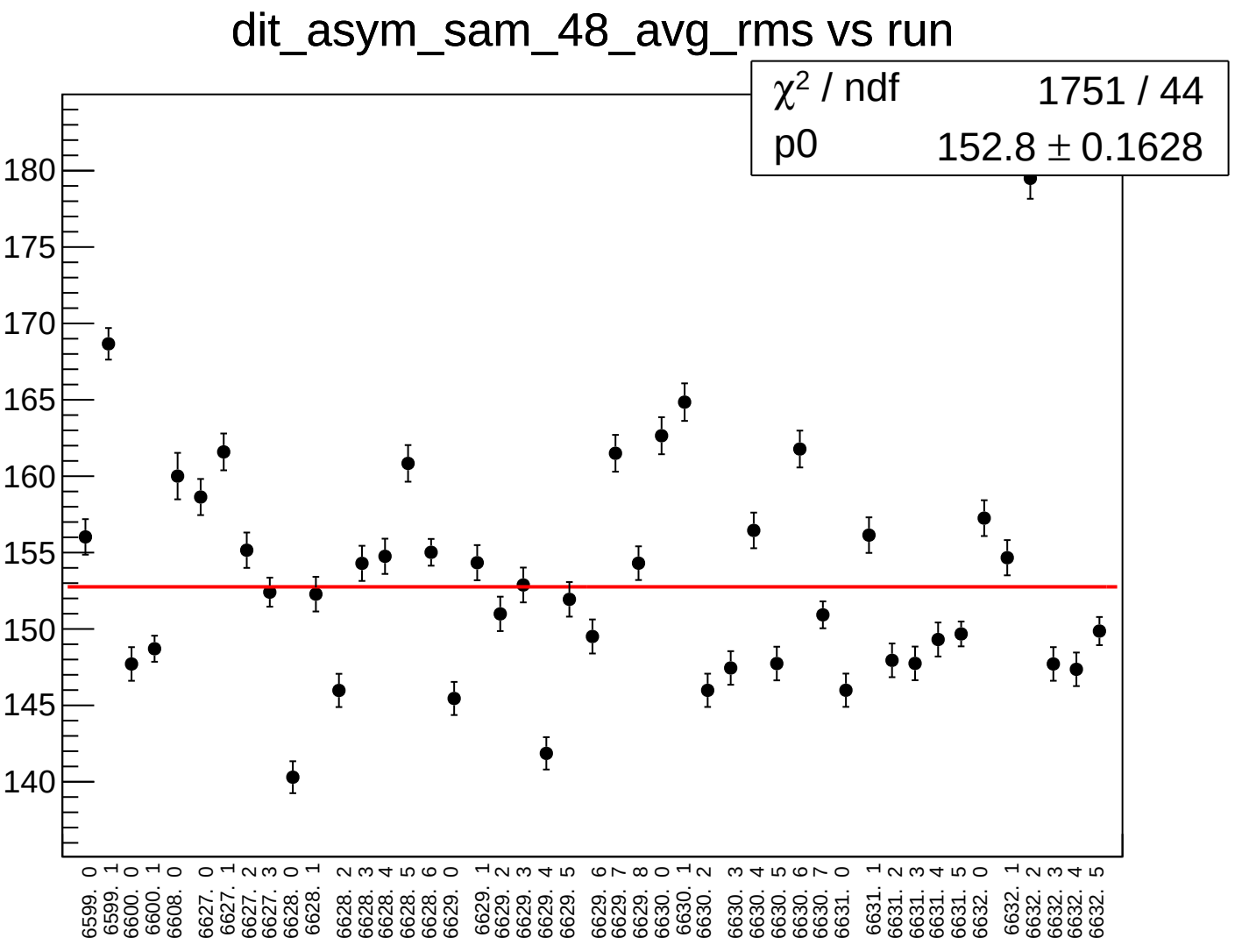
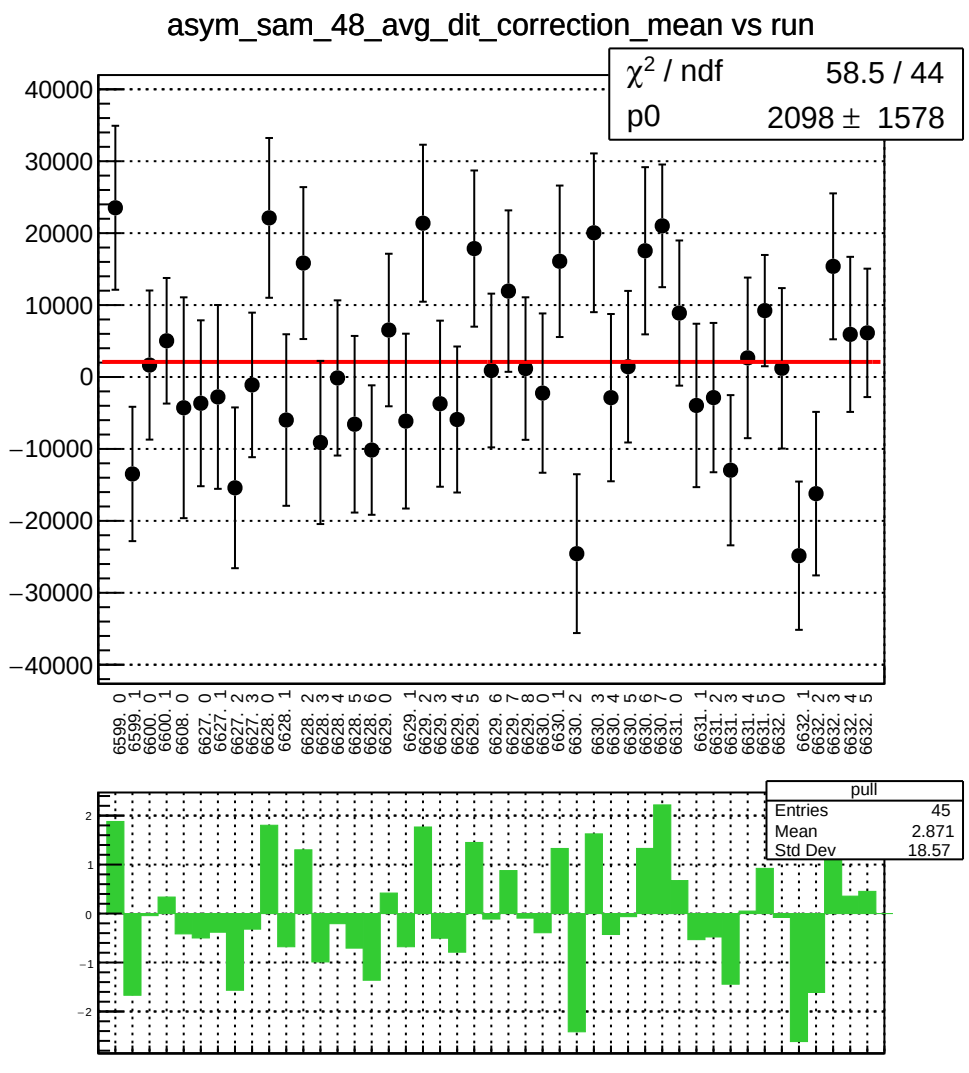
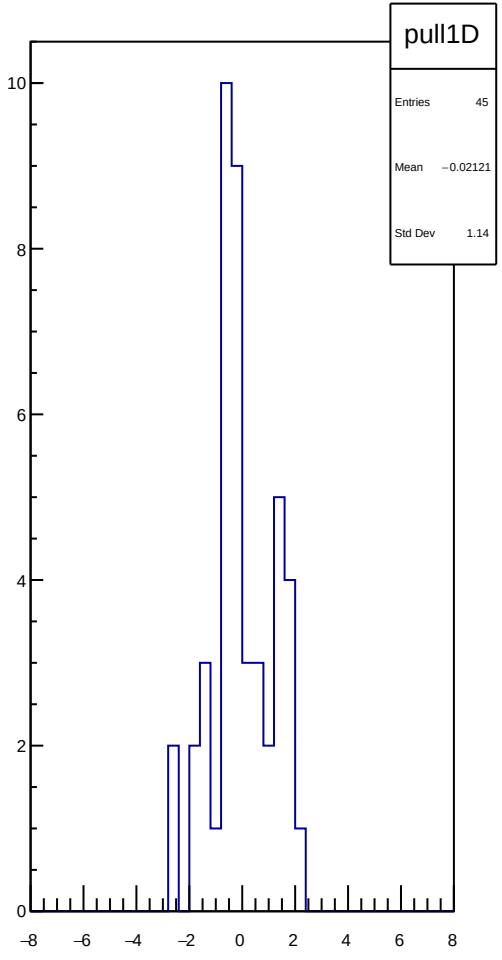
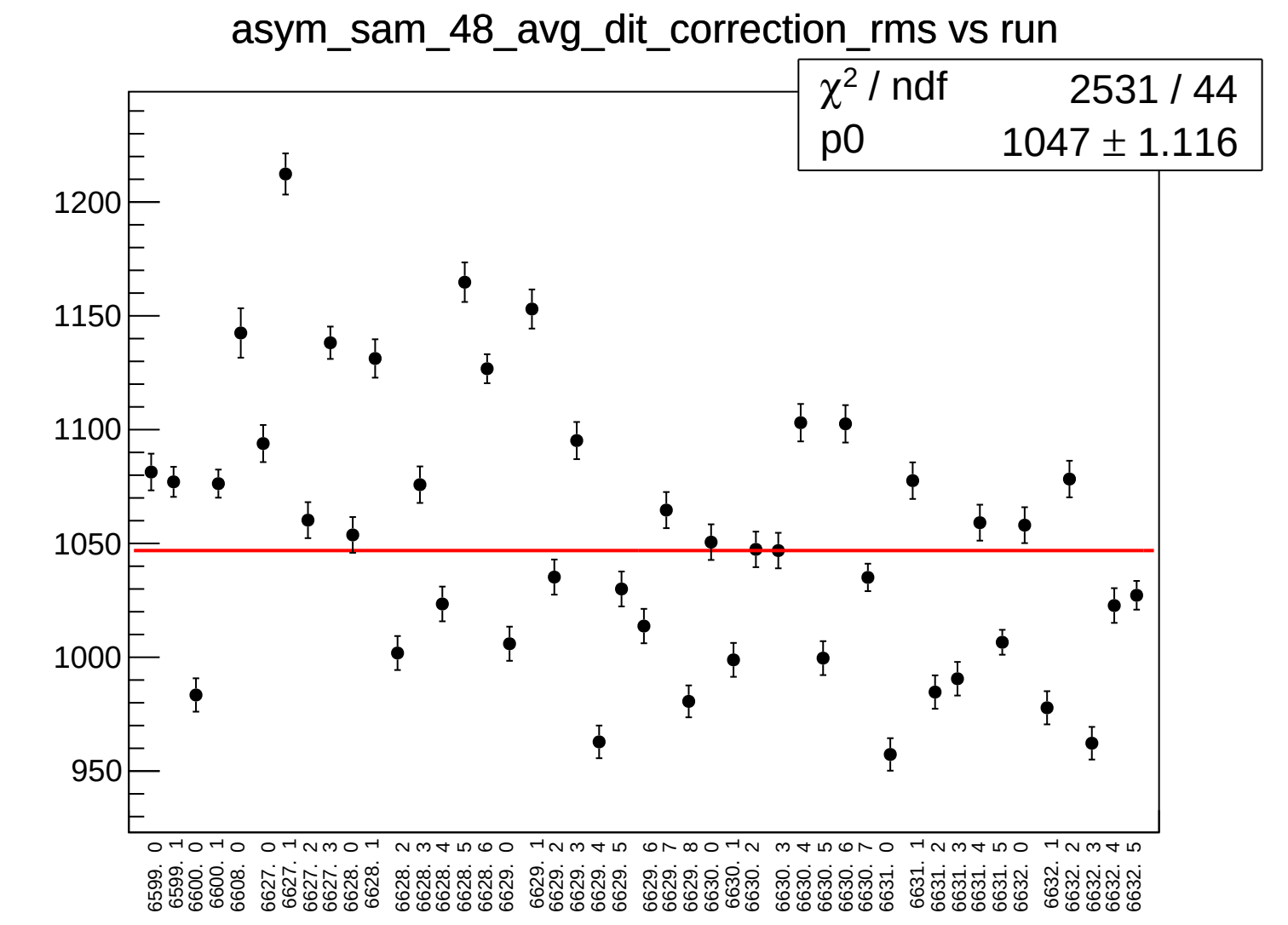
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 420.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

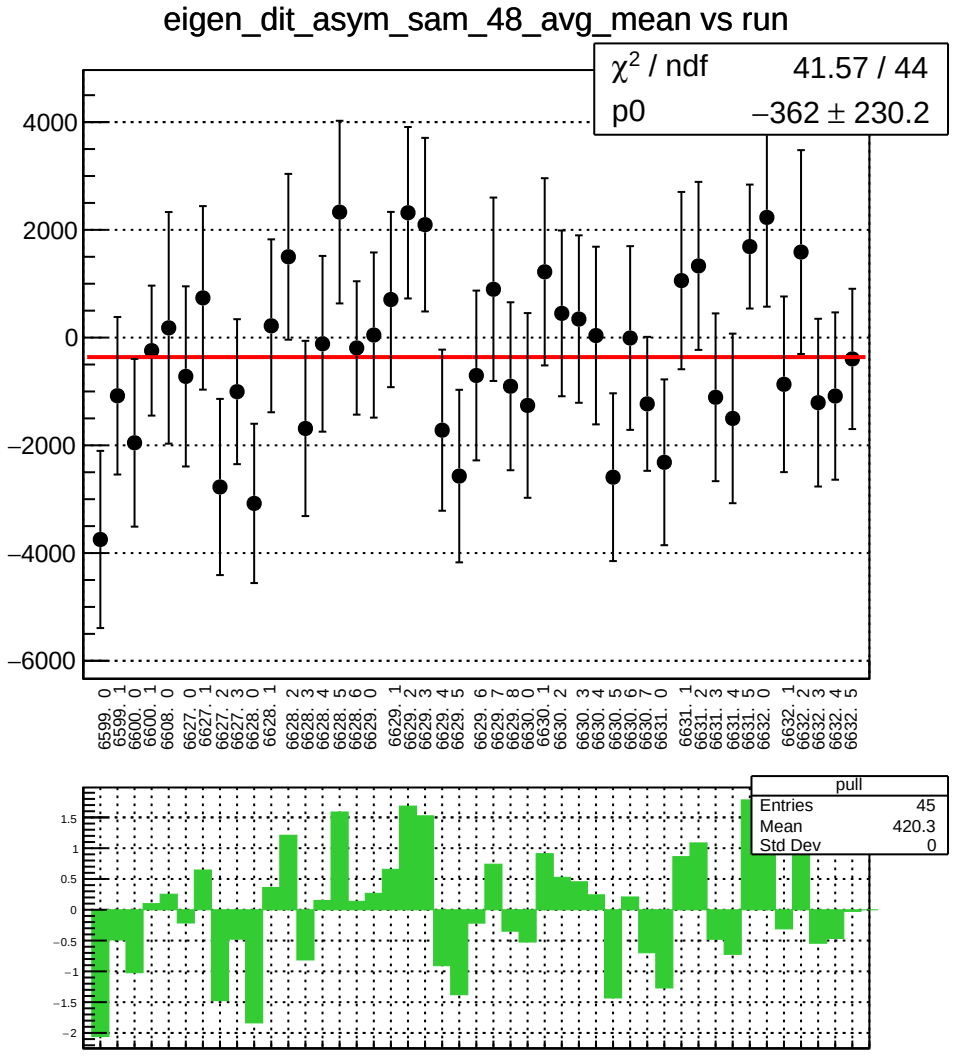

pull1D
Entries 45
Mean 0.006231
Std Dev 0.9612
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

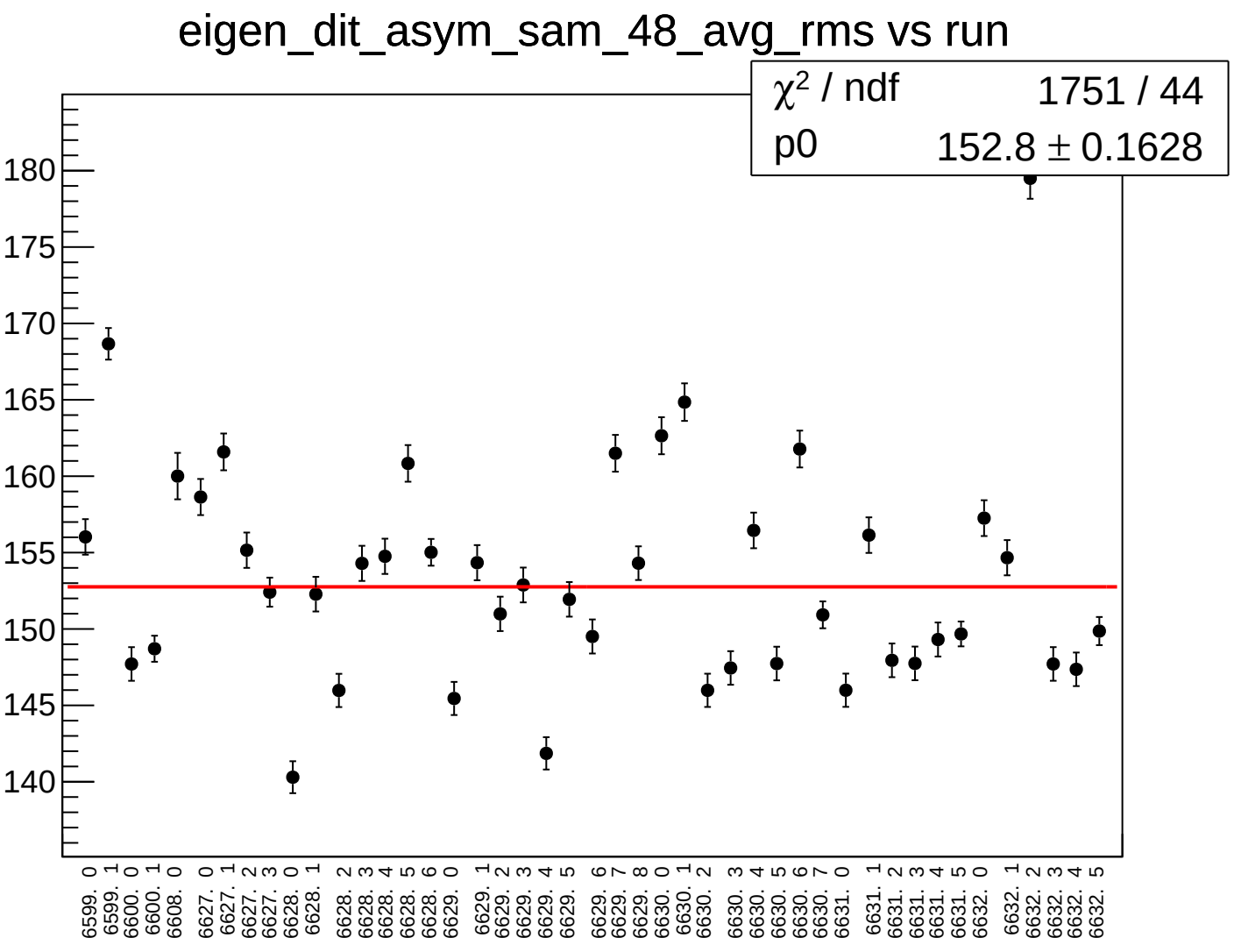

dit_asym_sam_48_avg_rms vs run
χ² / ndf 1751 / 44
p0 152.8 ± 0.1628
180
175
170
165
160
155
150
145
140
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

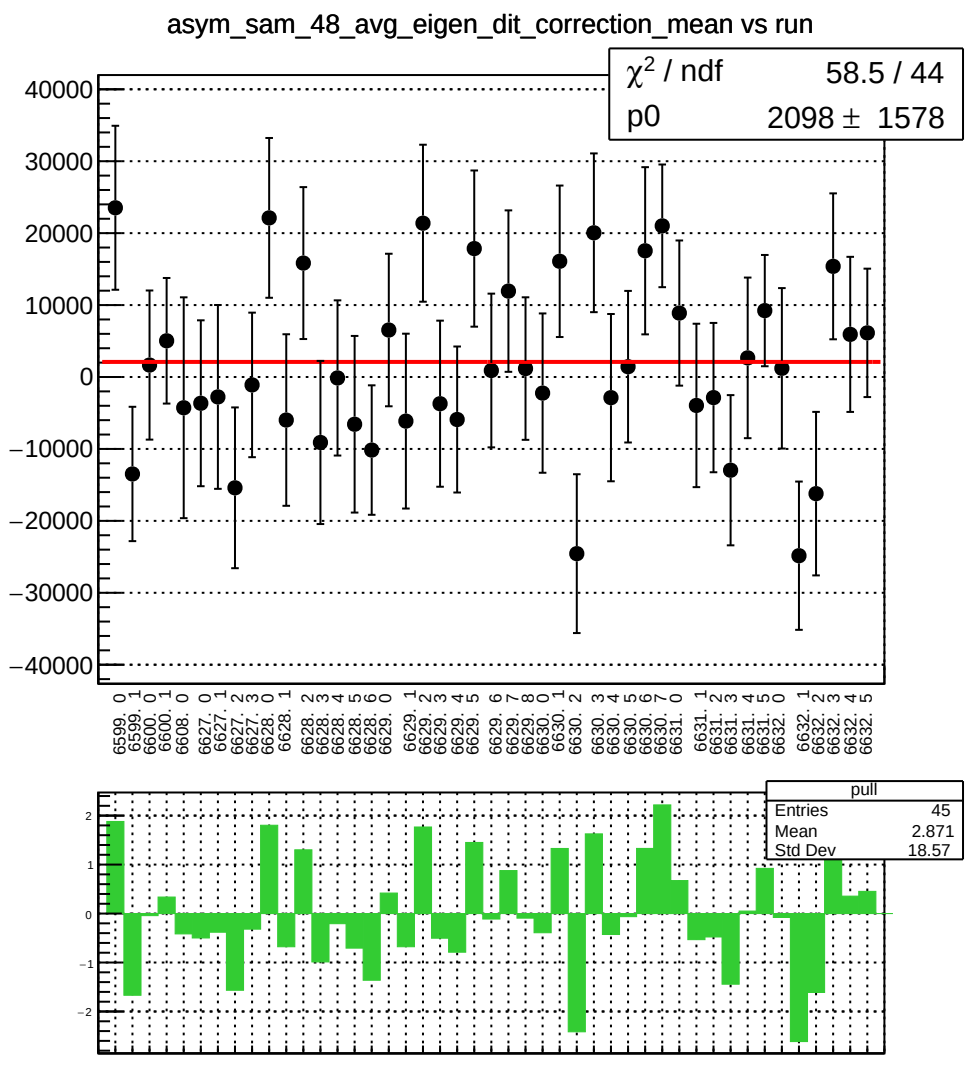

asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 58.5 / 44
p0 2098 ± 1578
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 2.871
Std Dev 18.57
2
1
0
−1
−2

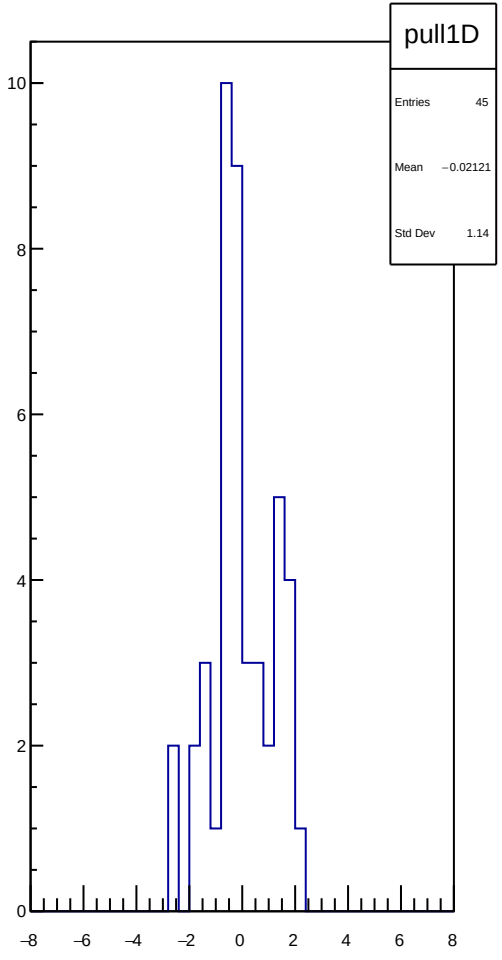

pull1D
Entries 45
Mean −0.02121
Std Dev 1.14
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

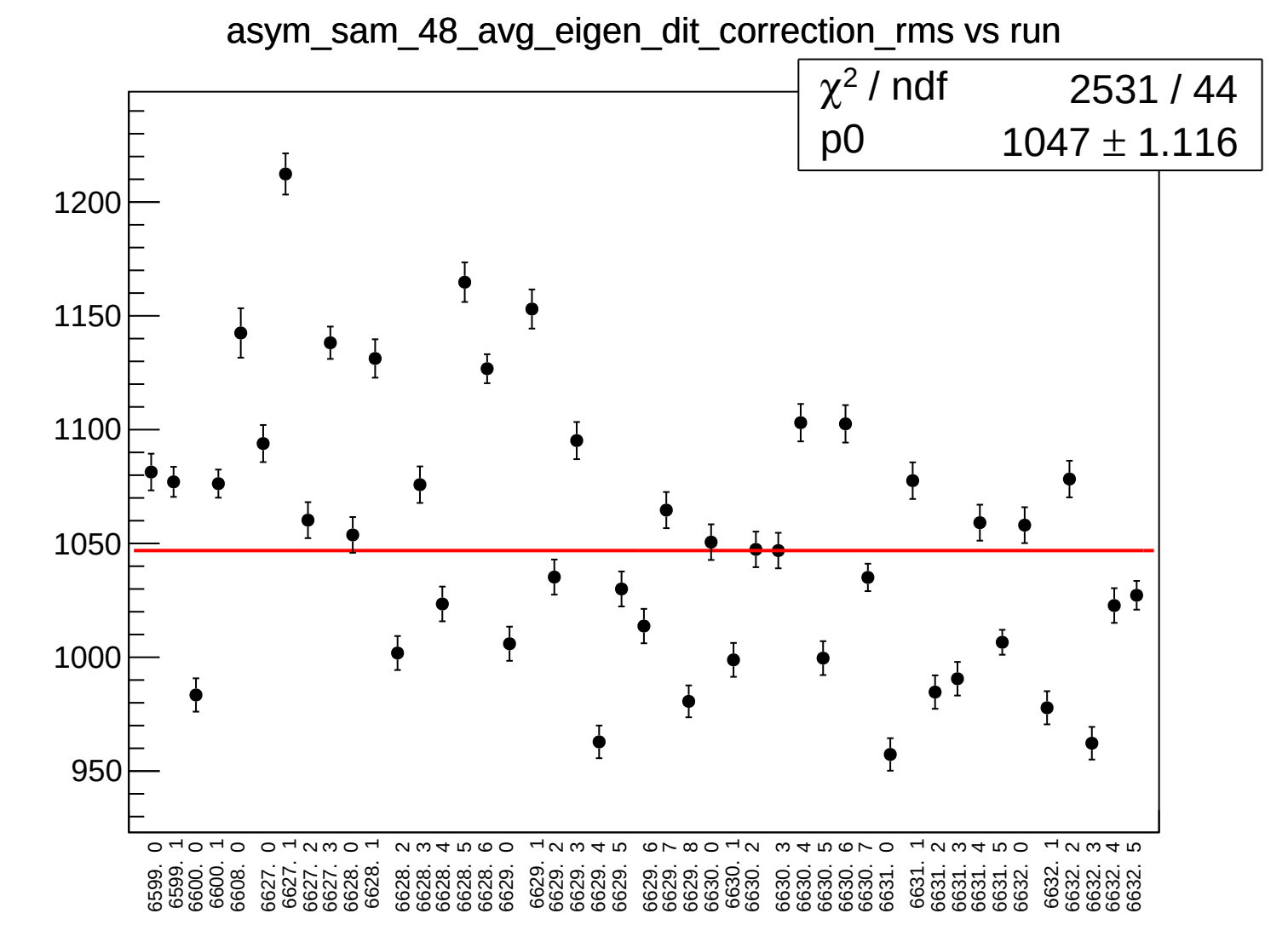

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 2531 / 44
p0 1047 ± 1.116
1200
1150
1100
1050
1000
950
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

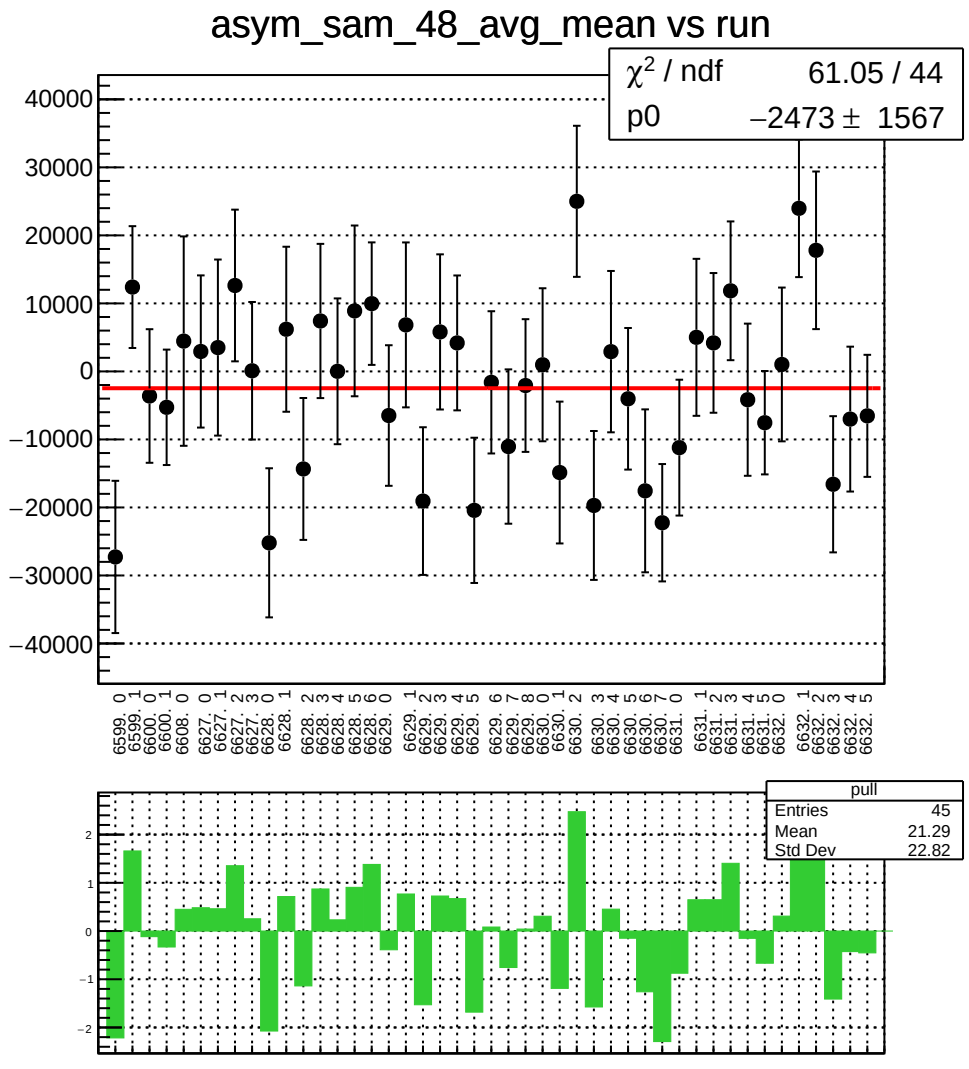

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 41.57 / 44
p0 −362 ± 230.2
4000
2000
0
−2000
−4000
−6000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 420.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.006231
Std Dev 0.9612
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

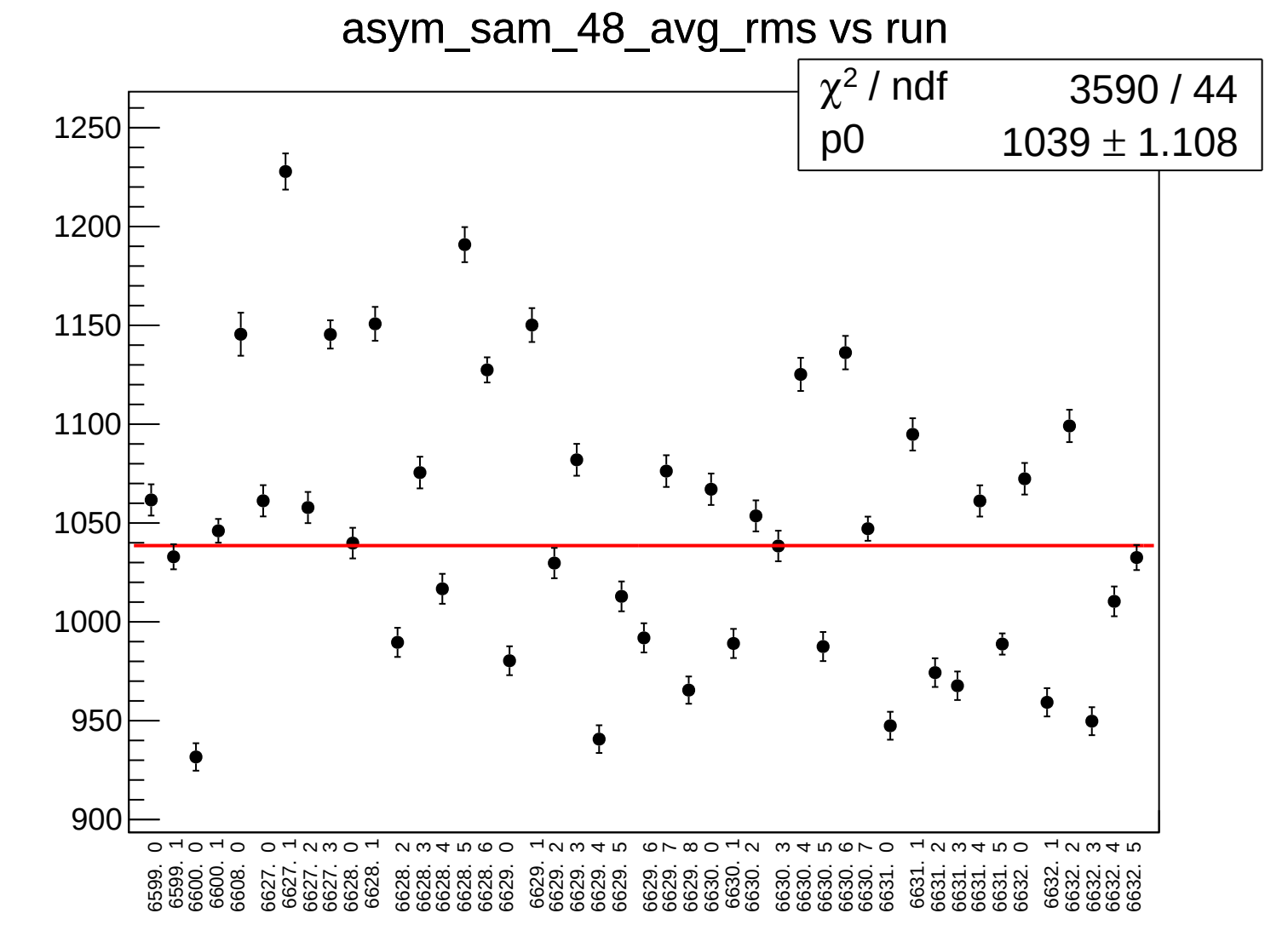

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 1751 / 44
p0 152.8 ± 0.1628
180
175
170
165
160
155
150
145
140
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

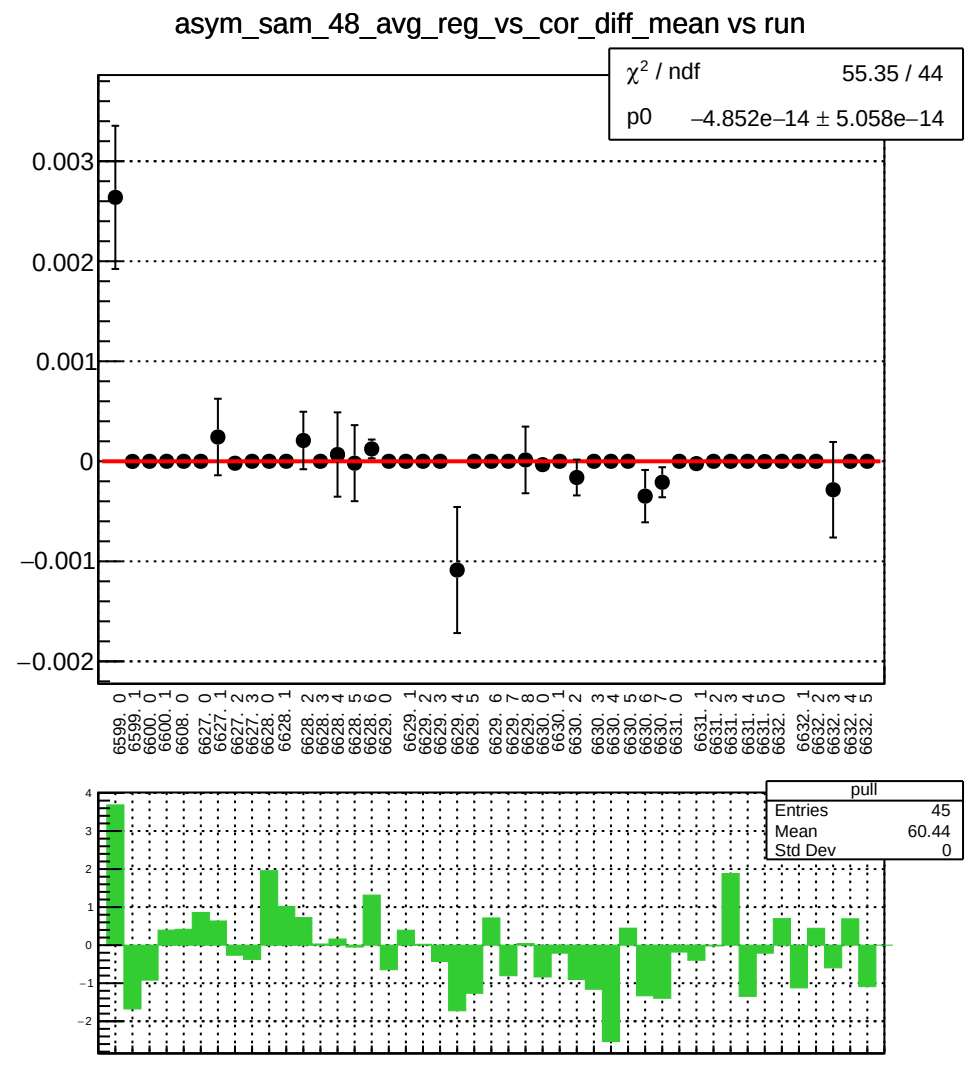

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 58.5 / 44
p0 2098 ± 1578
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 2.871
Std Dev 18.57
2
1
0
−1
−2

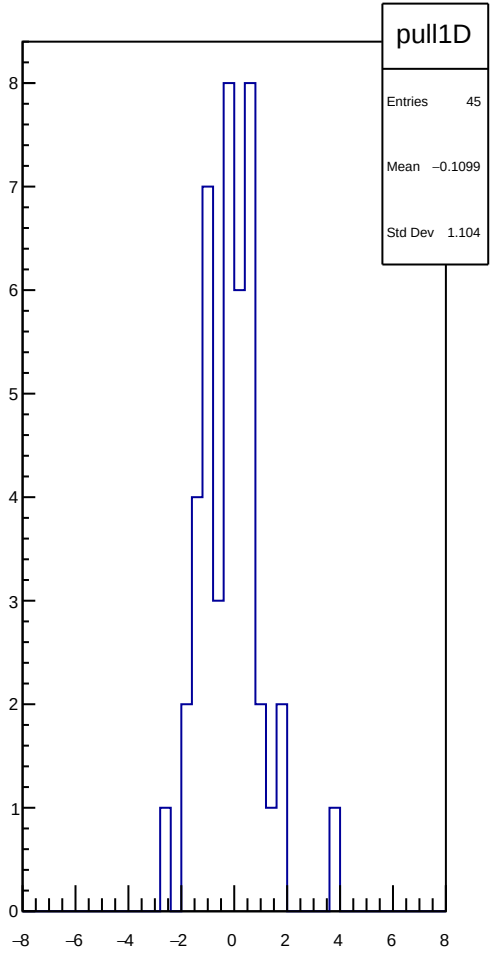

pull1D
Entries 45
Mean −0.02121
Std Dev 1.14
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

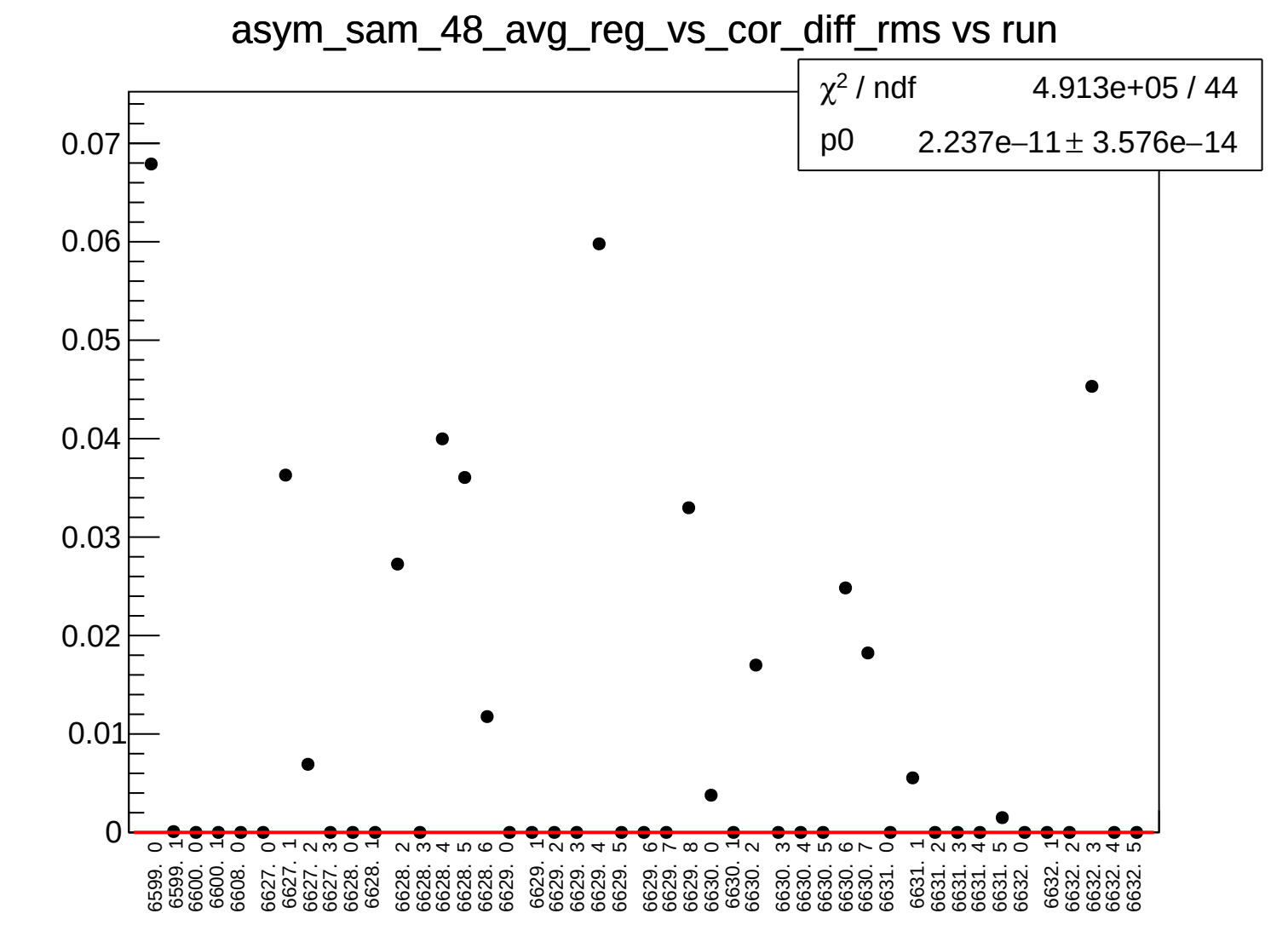

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 2531 / 44
p0 1047 ± 1.116
1200
1150
1100
1050
1000
950
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

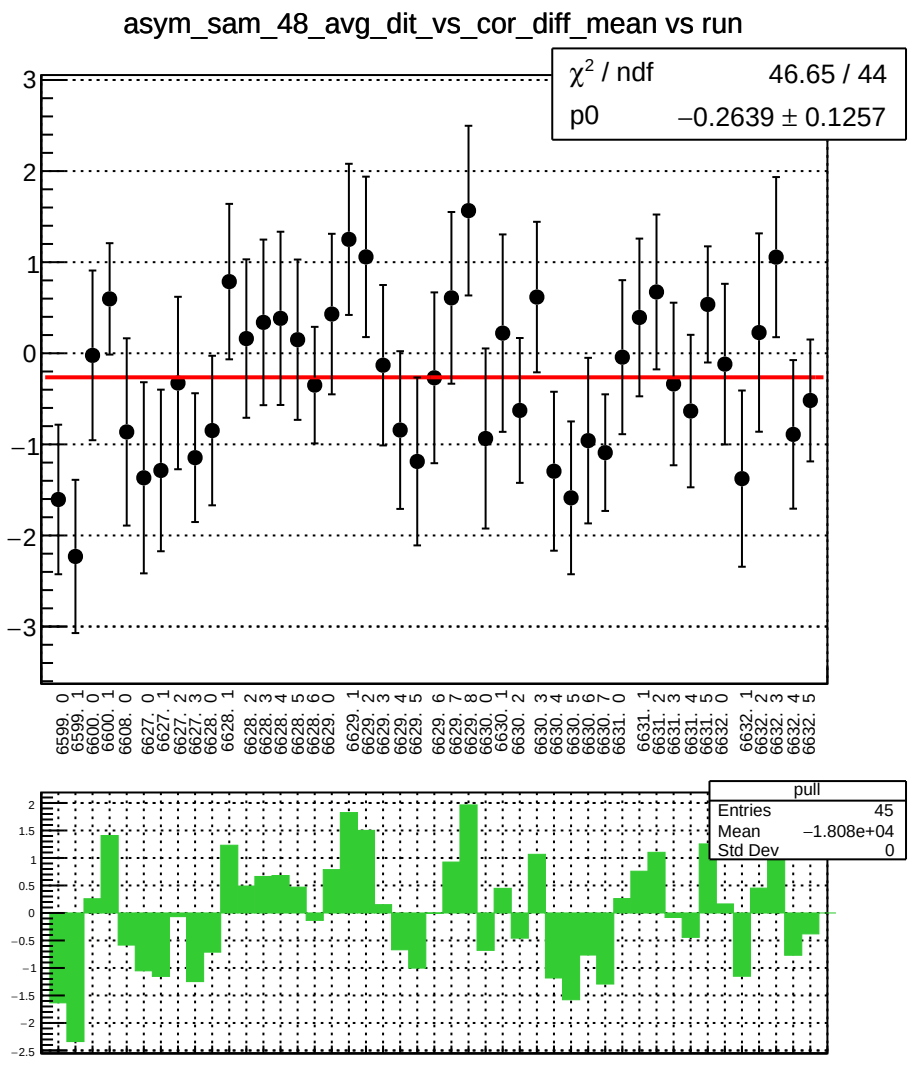

asym_sam_48_avg_mean vs run
χ² / ndf 61.05 / 44
p0 −2473 ± 1567
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 21.29
Std Dev 22.82
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.02223
Std Dev 1.165
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

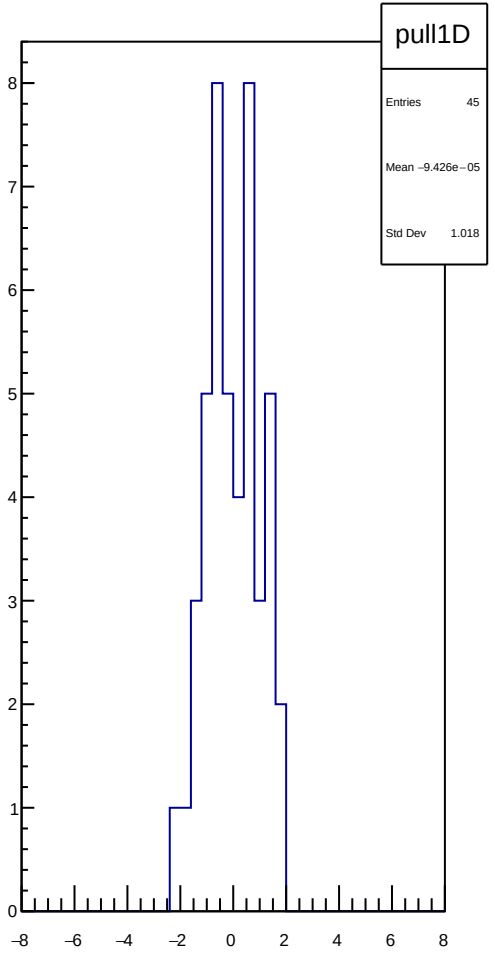

asym_sam_48_avg_rms vs run
χ² / ndf 3590 / 44
p0 1039 ± 1.108
1250
1200
1150
1100
1050
1000
950
900
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

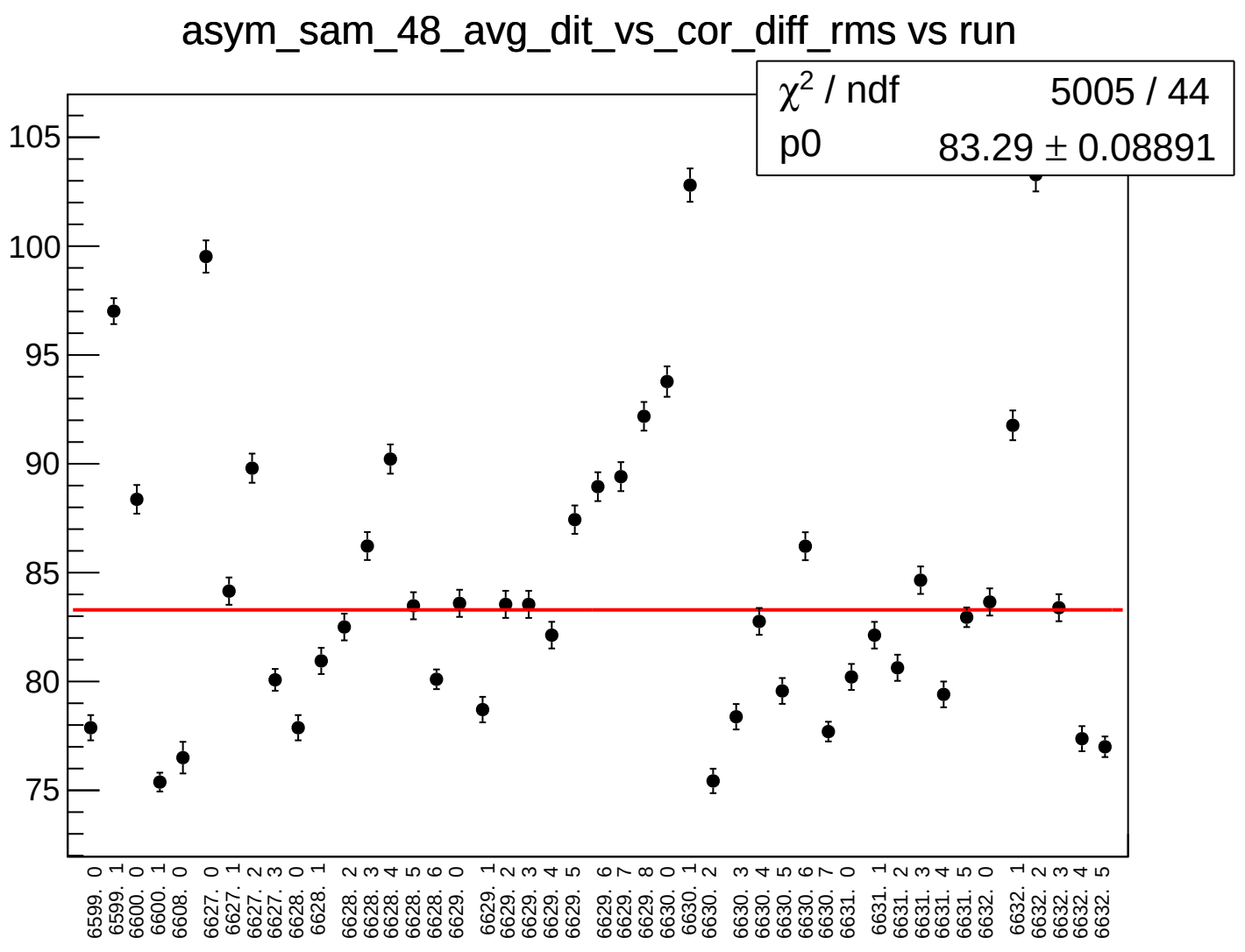

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 55.35 / 44
p0 −4.852e−14 ± 5.058e−14
0.003
0.002
0.001
0
−0.001
−0.002
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 60.44
Std Dev 0
4
3
2
1
0
−1
−2

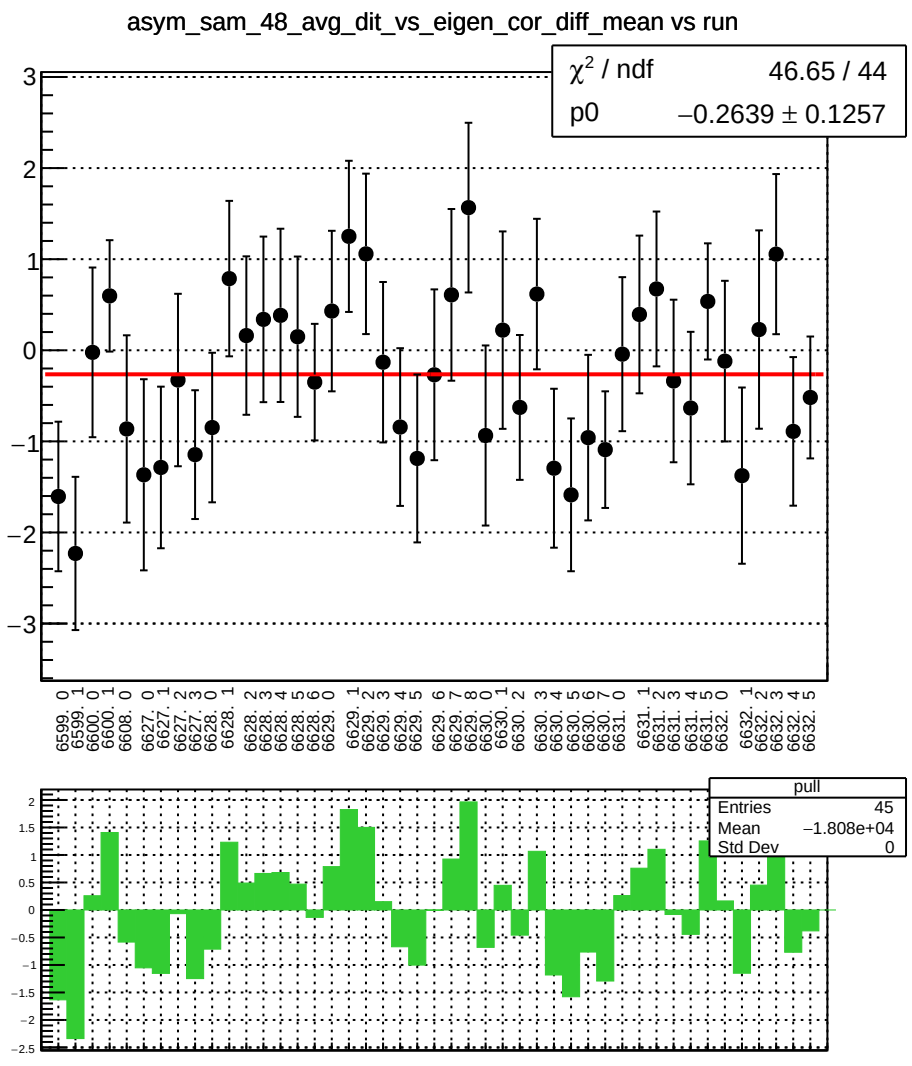

pull1D
Entries 45
Mean −0.1099
Std Dev 1.104
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

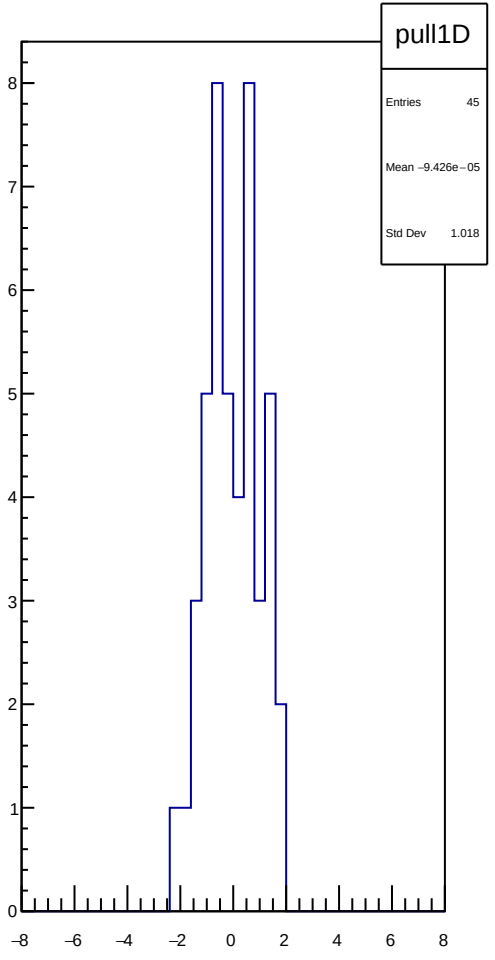

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.913e+05 / 44
p0 2.237e−11 ± 3.576e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

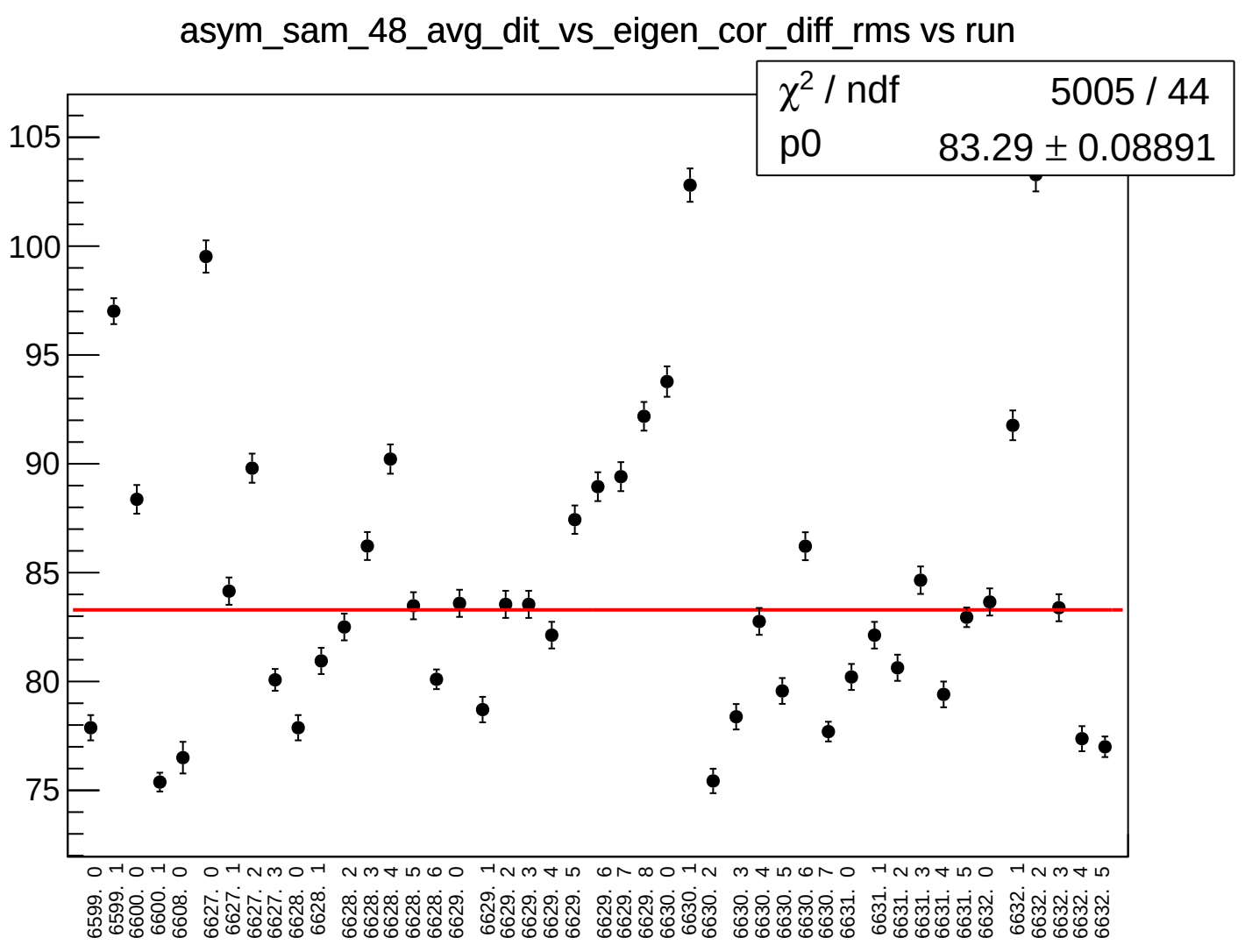

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 46.65 / 44
p0 −0.2639 ± 0.1257
pull
Entries 45
Mean −1.808e+04
Std Dev 0

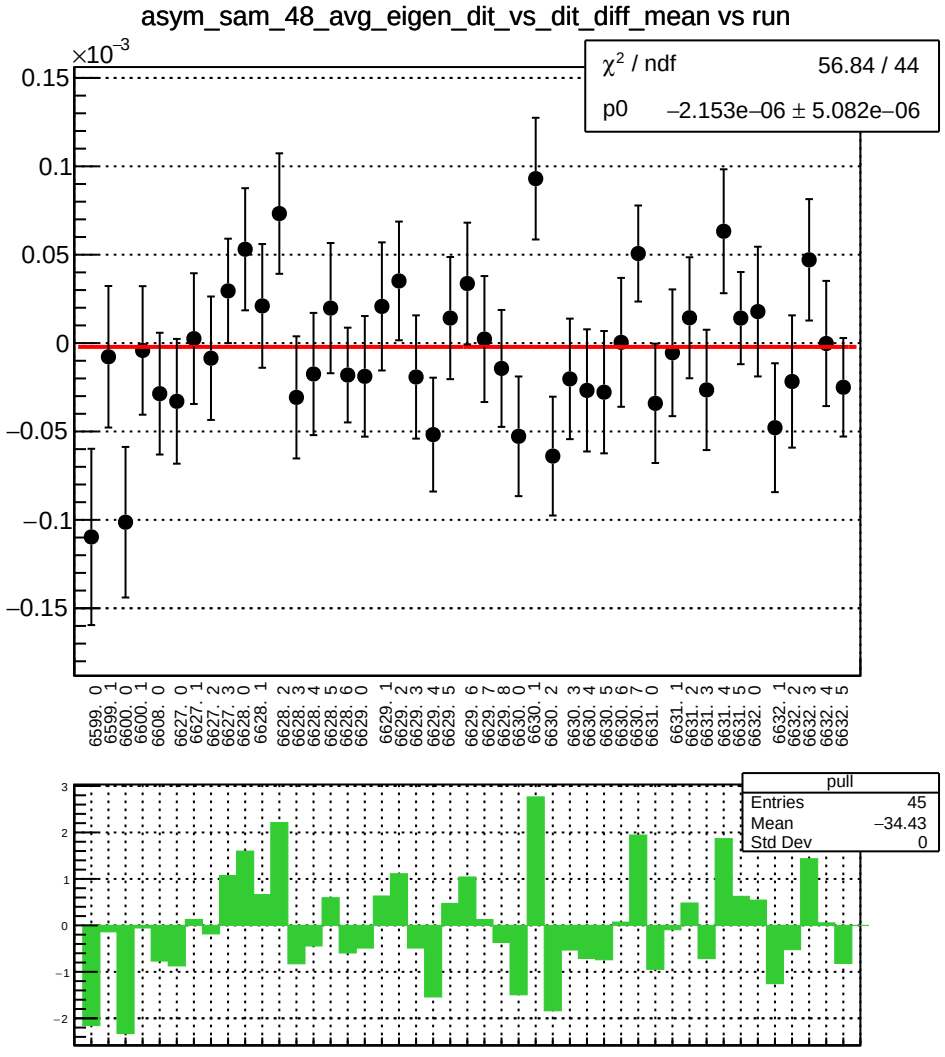

pull1D
Entries 45
Mean −9.426e−05
Std Dev 1.018

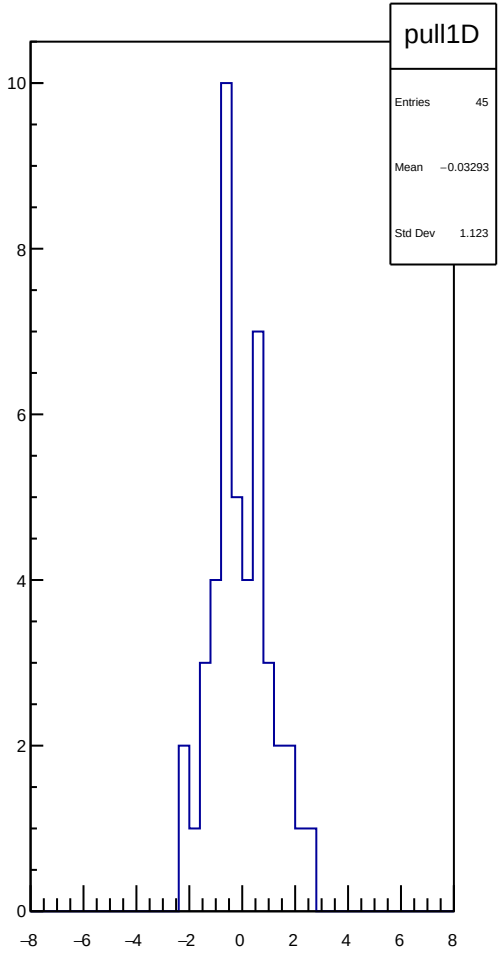

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5005 / 44
p0 83.29 ± 0.08891
105
100
95
90
85
80
75
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

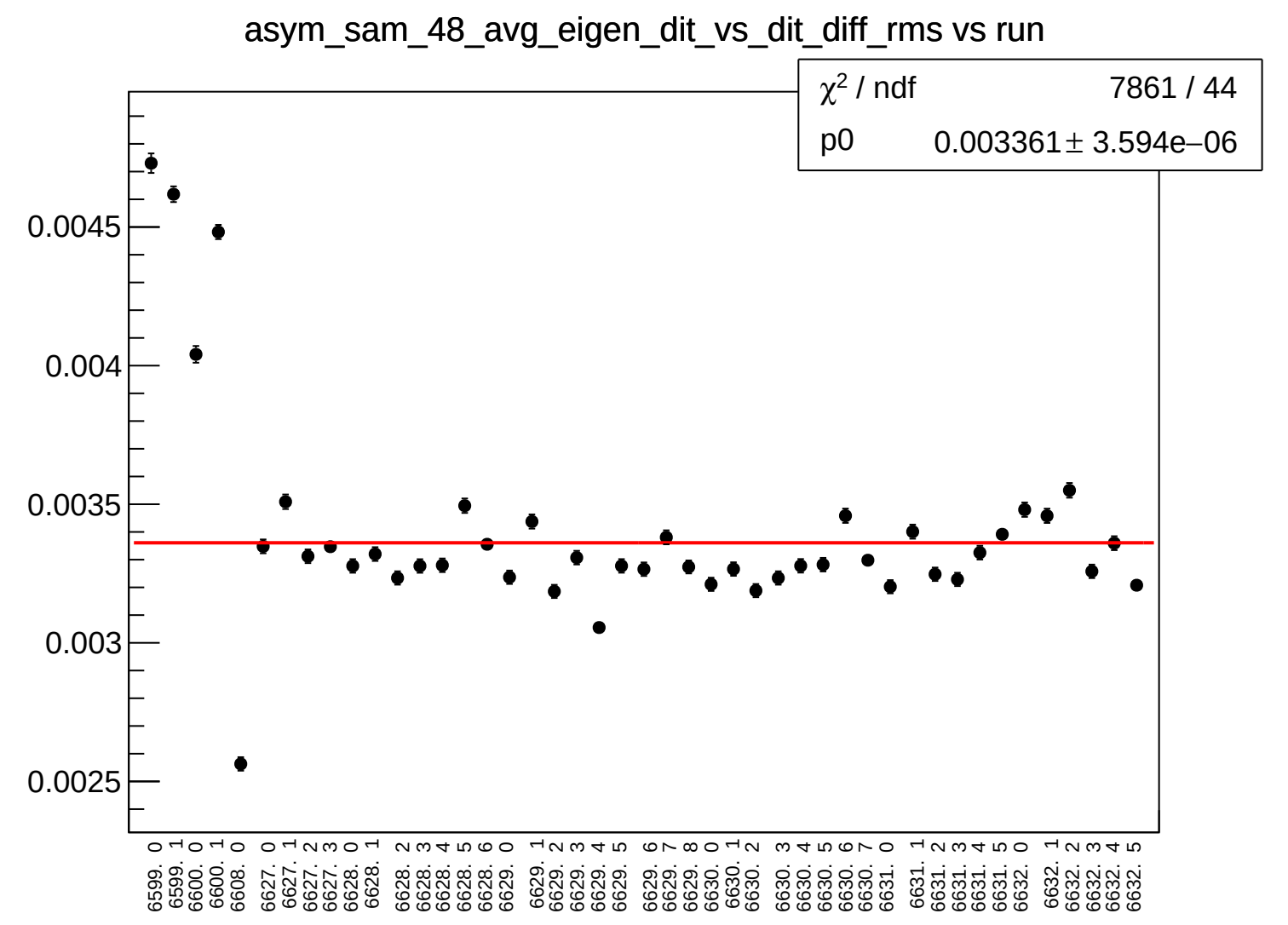

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.65 / 44
p0 −0.2639 ± 0.1257
pull
Entries 45
Mean −1.808e+04
Std Dev 0

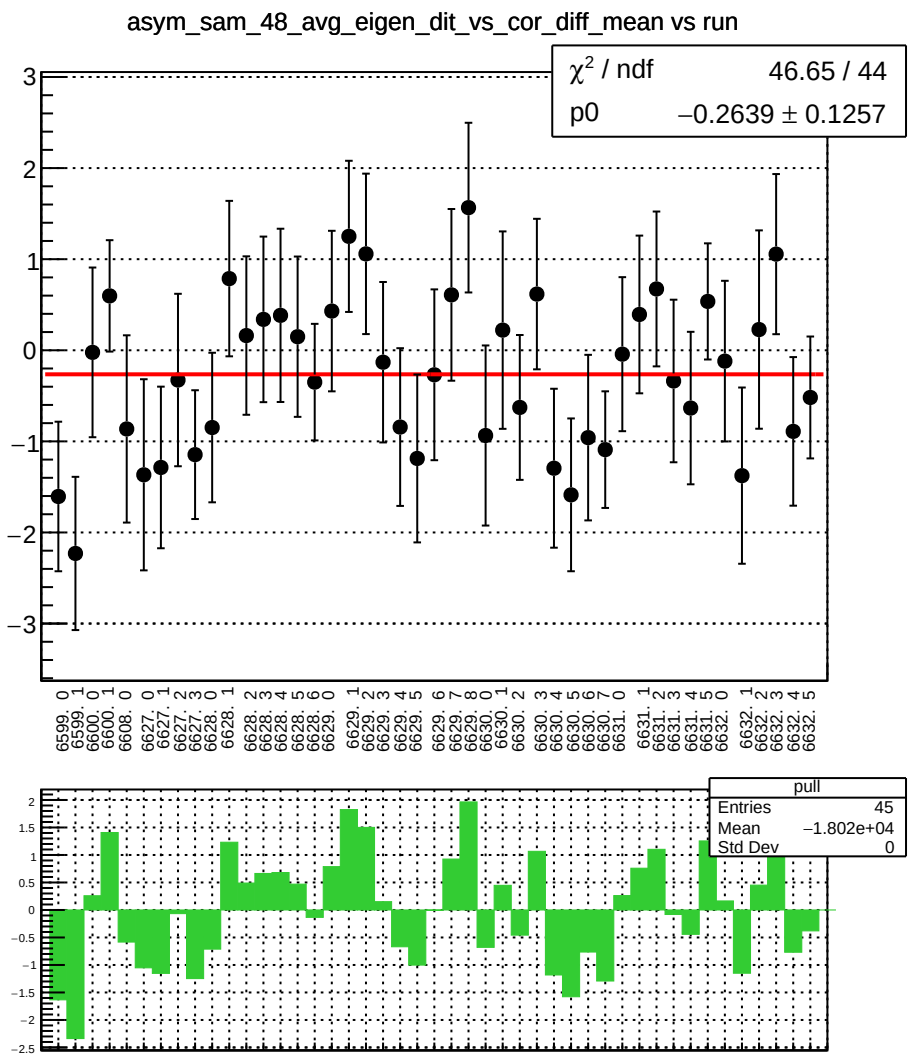

pull1D
Entries 45
Mean −9.426e−05
Std Dev 1.018

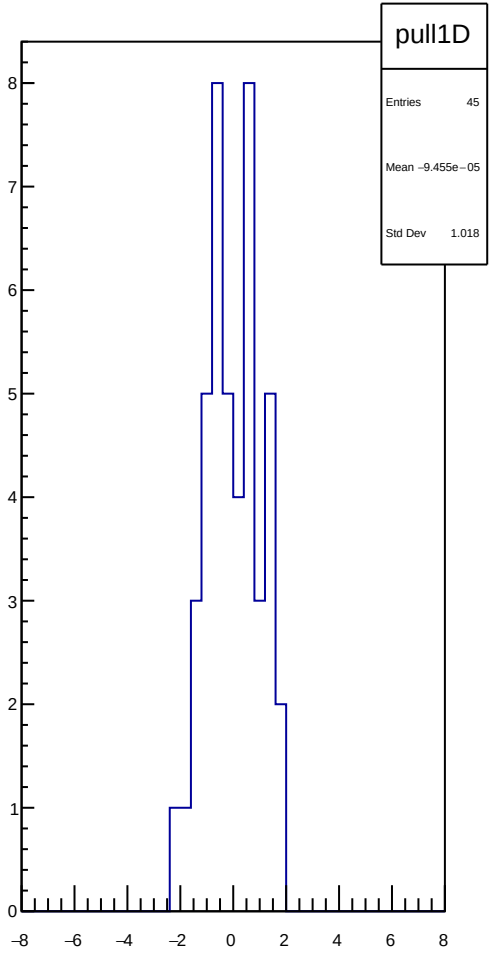

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5005 / 44
p0 83.29 ± 0.08891
105
100
95
90
85
80
75
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

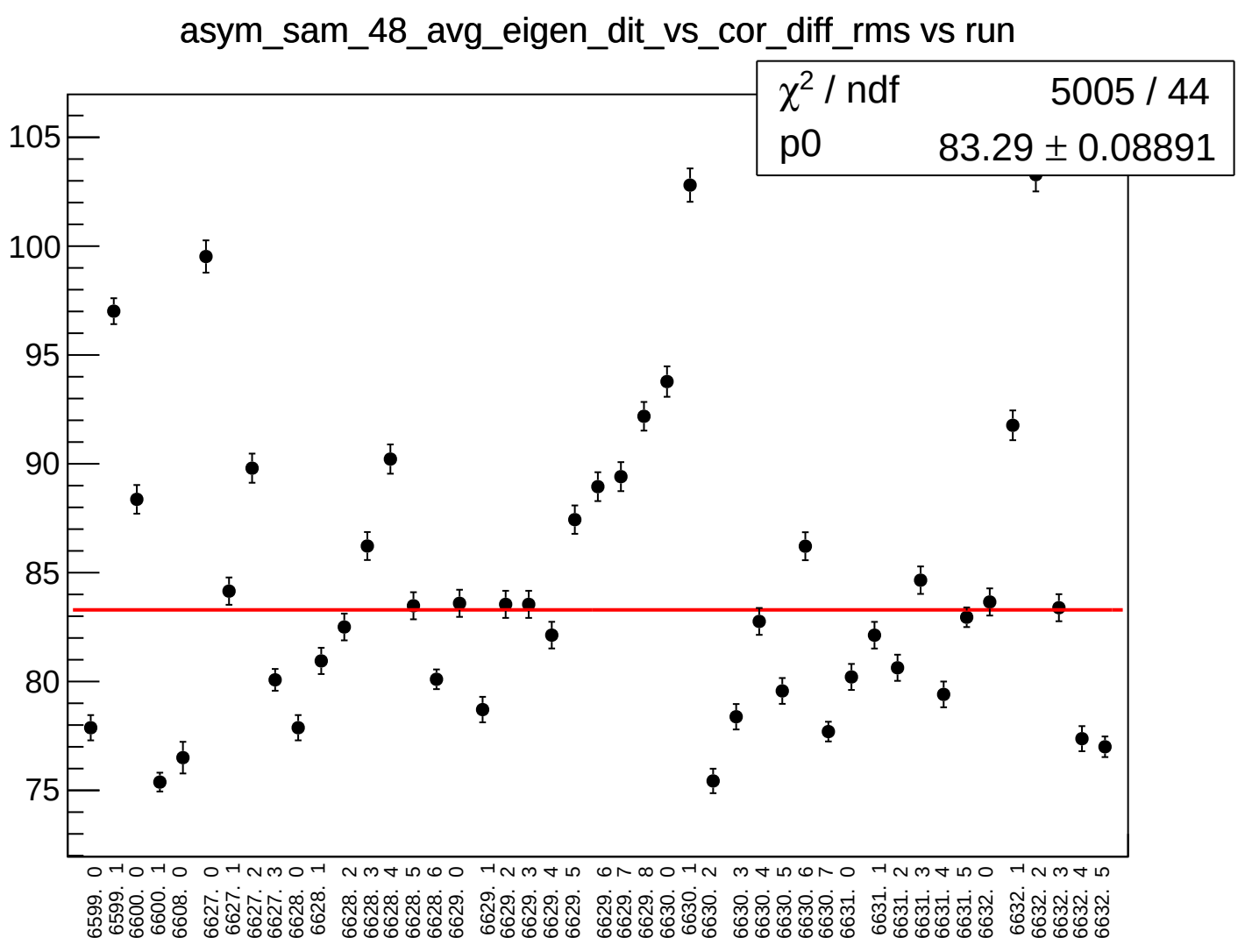

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 56.84 / 44
p0 −2.153e−06 ± 5.082e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −34.43
Std Dev 0
3
2
1
0
−1
−2

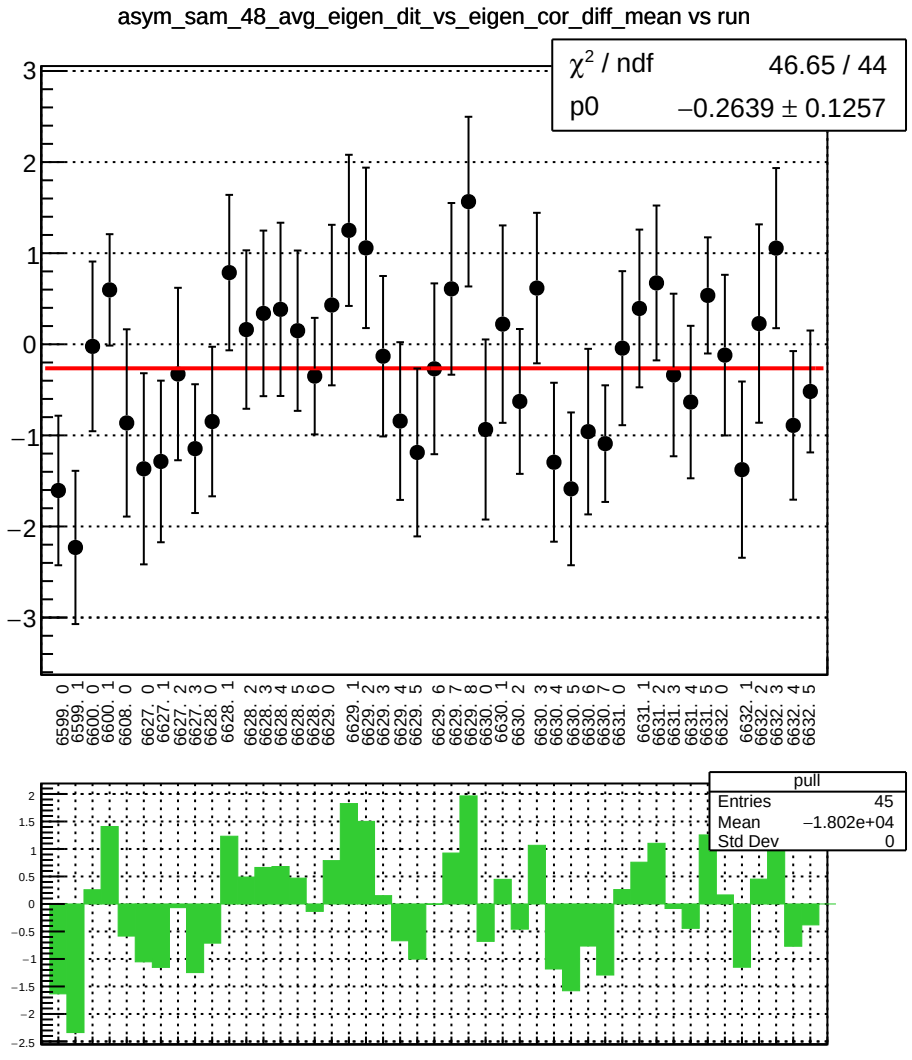

pull1D
Entries 45
Mean −0.03293
Std Dev 1.123
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

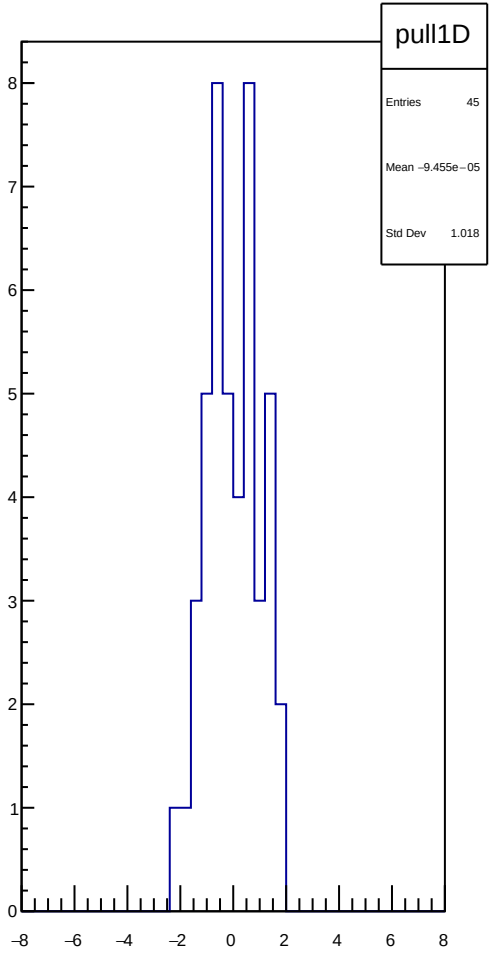

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7861 / 44
p0 0.003361 ± 3.594e−06
0.0045
0.004
0.0035
0.003
0.0025
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

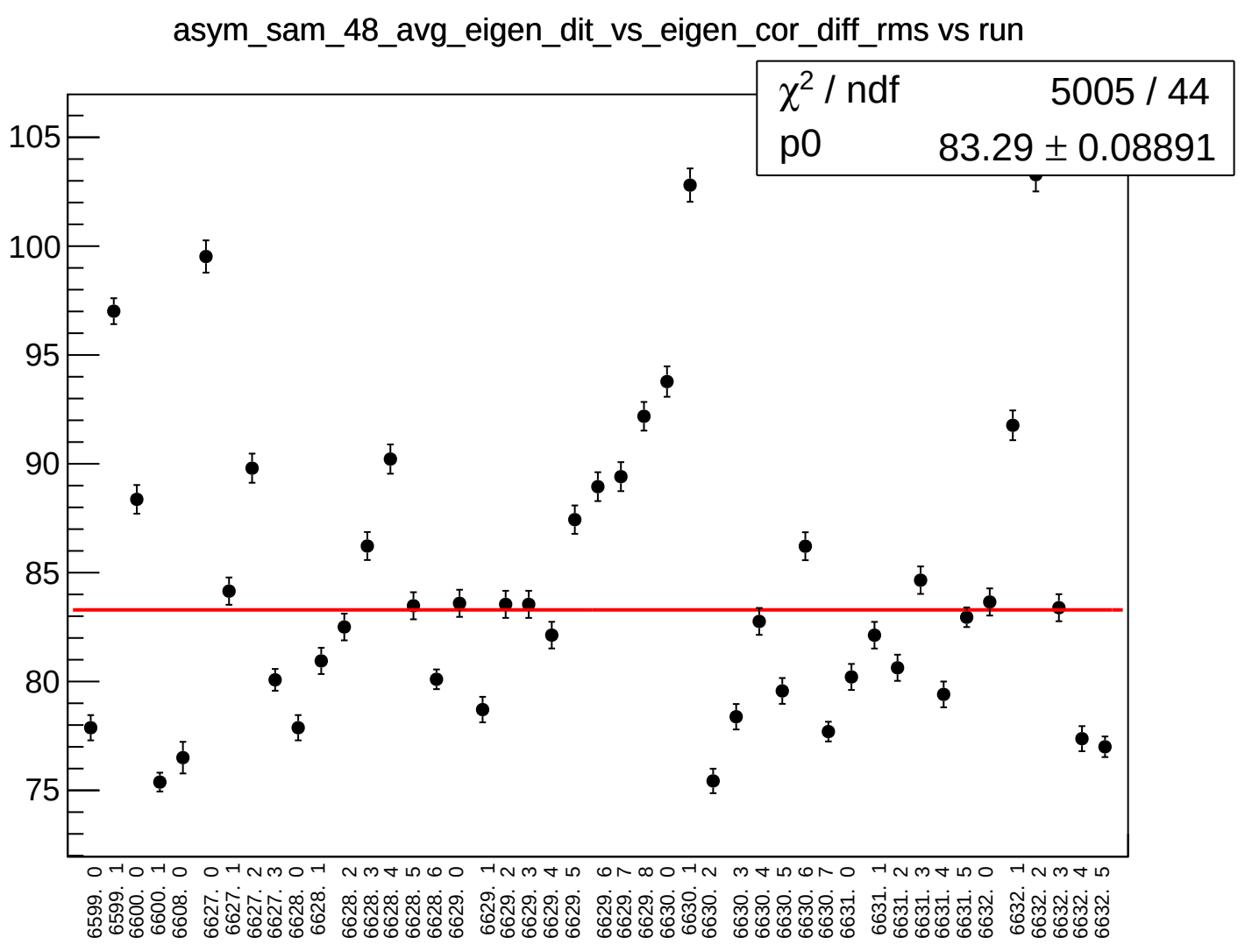

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 46.65 / 44
p0 −0.2639 ± 0.1257
pull
Entries 45
Mean −1.802e+04
Std Dev 0

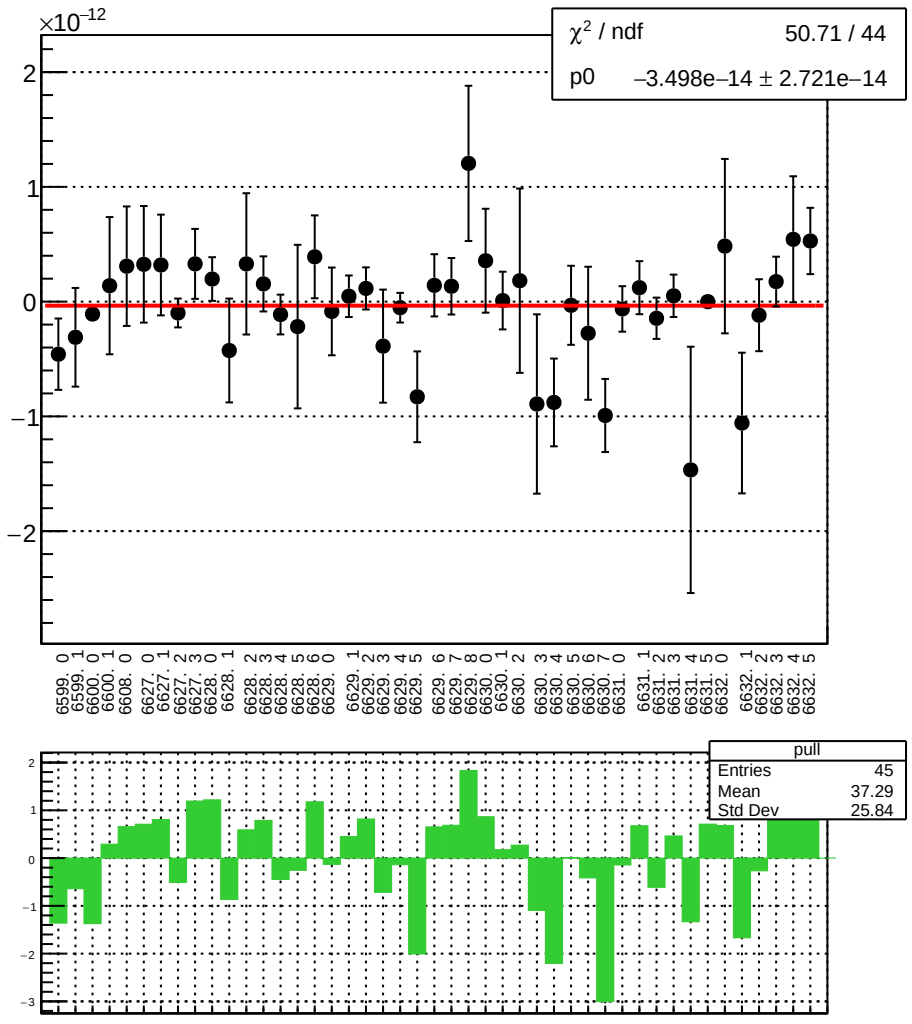

pull1D
Entries 45
Mean −9.455e−05
Std Dev 1.018

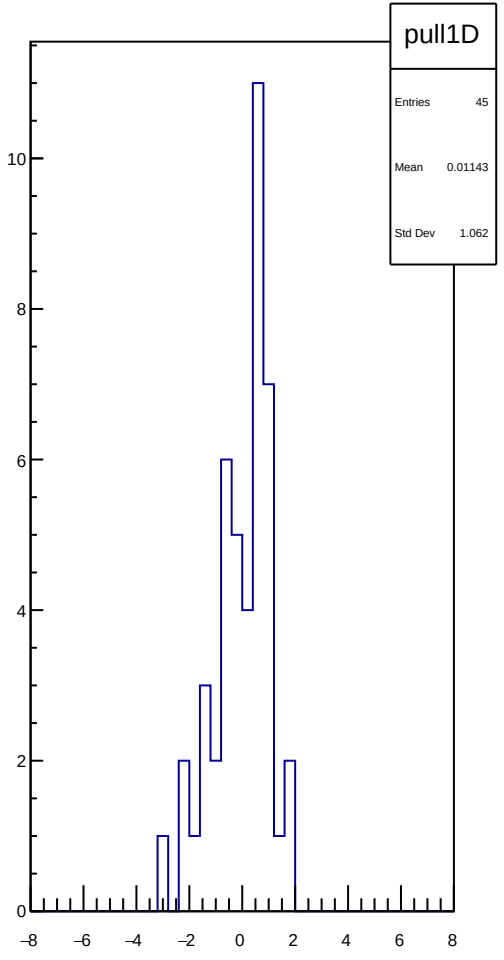

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5005 / 44
p0 83.29 ± 0.08891
105
100
95
90
85
80
75
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

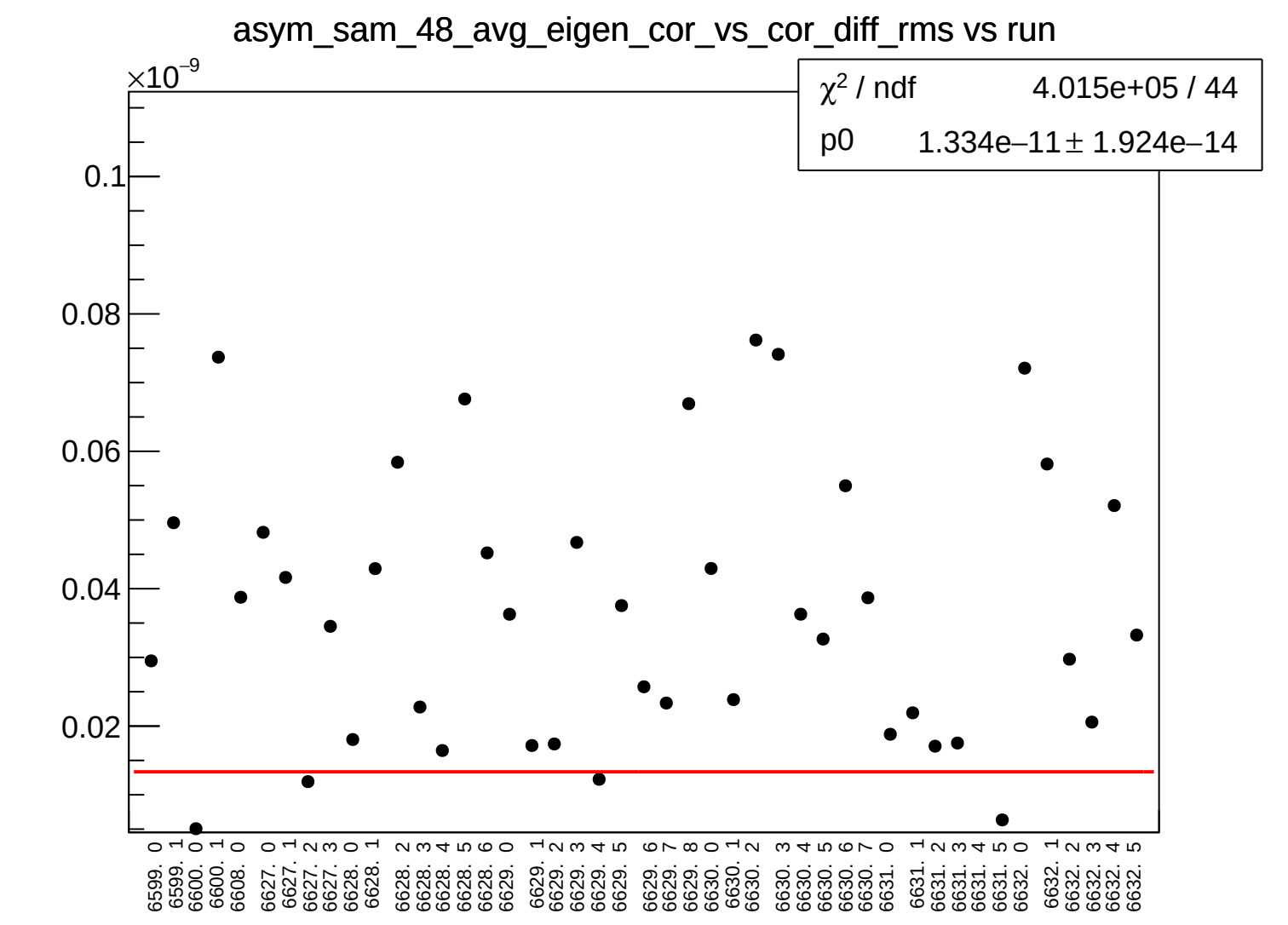

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.65 / 44
p0 −0.2639 ± 0.1257
pull
Entries 45
Mean −1.802e+04
Std Dev 0

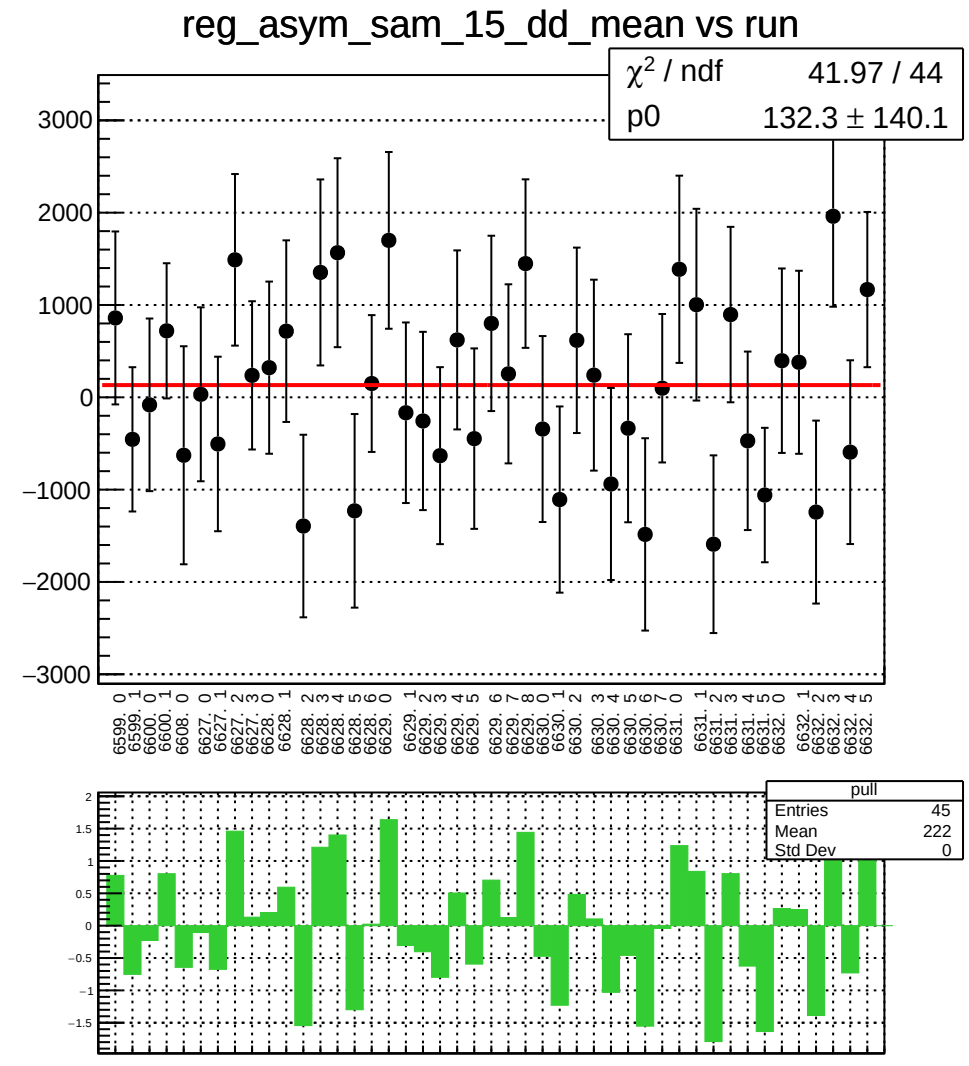

pull1D
Entries 45
Mean −9.455e−05
Std Dev 1.018

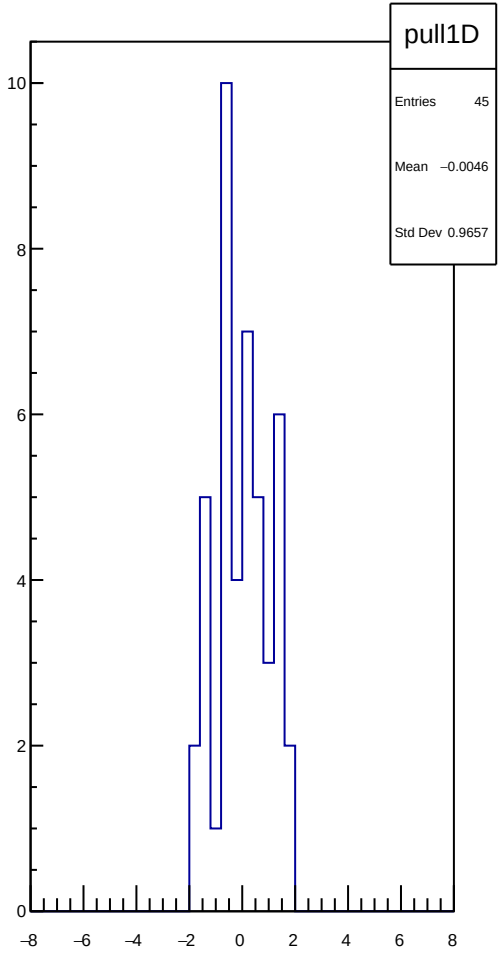

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ2 / ndf 5005 / 44
p0 83.29 ± 0.08891
105
100
95
90
85
80
75
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

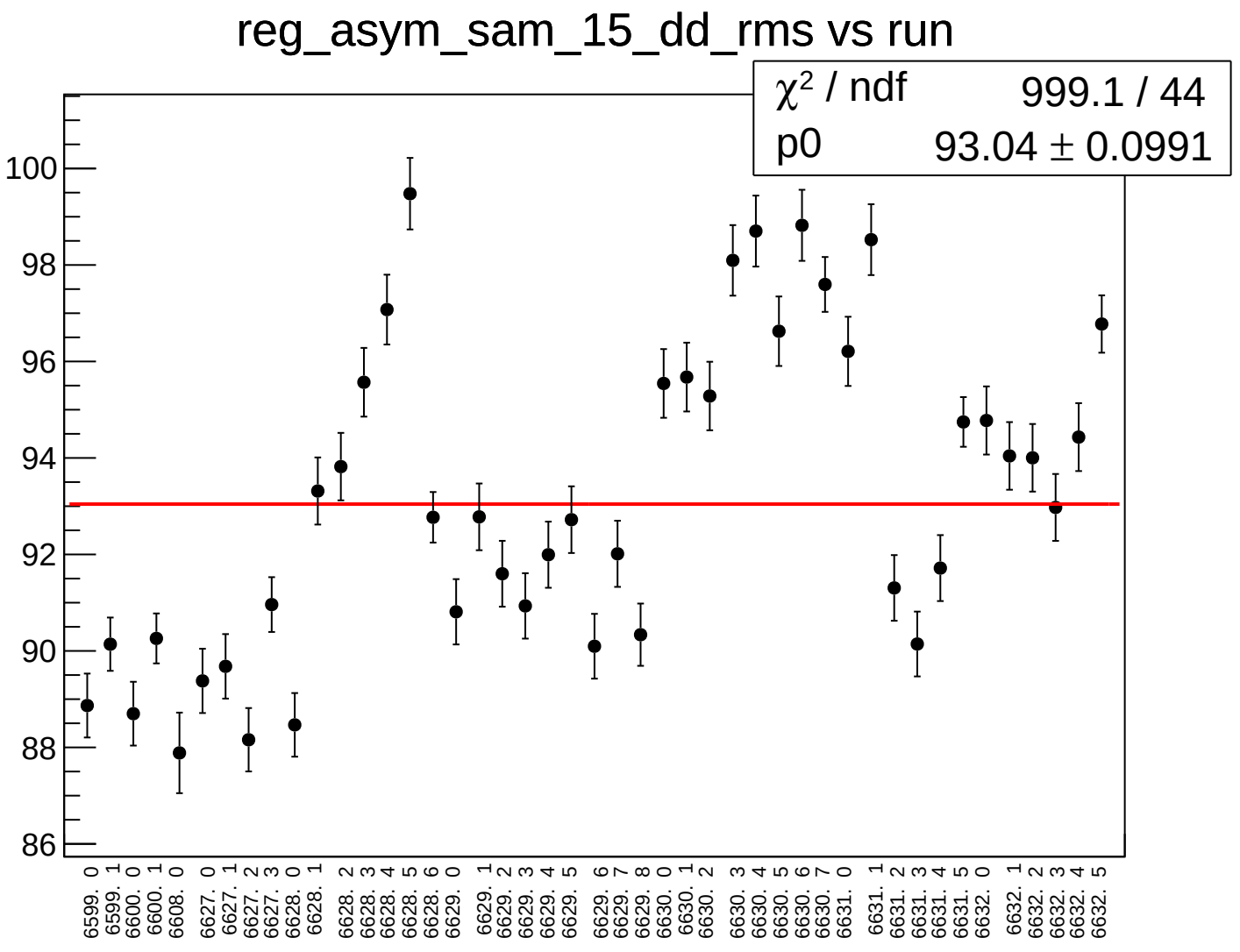

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 50.71 / 44
p0 −3.498e−14 ± 2.721e−14
pull
Entries 45
Mean 37.29
Std Dev 25.84

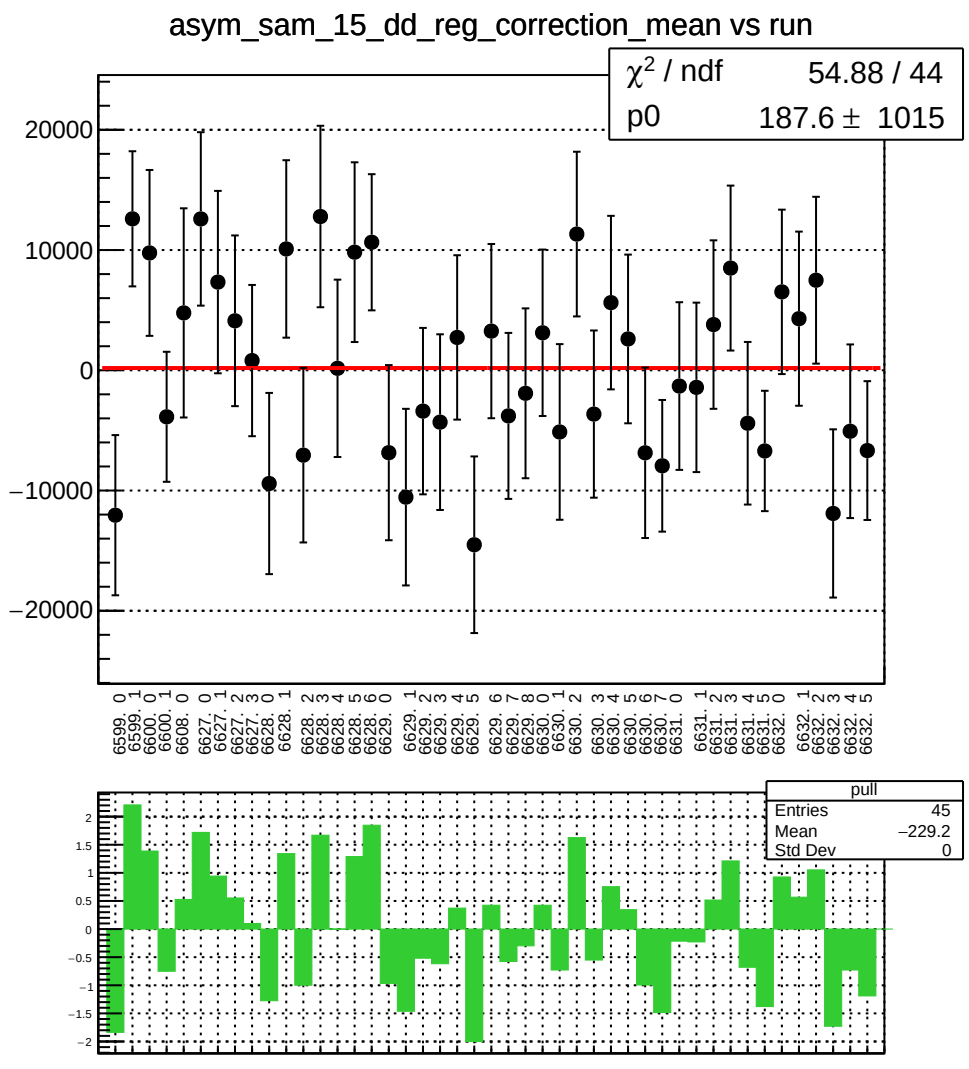

pull1D
Entries 45
Mean 0.01143
Std Dev 1.062

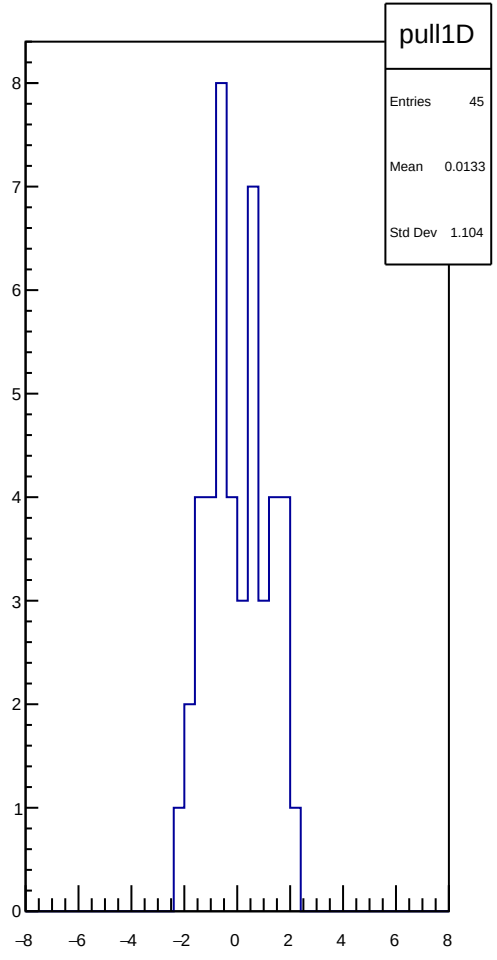

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.015e+05 / 44
p0 1.334e−11 ± 1.924e−14
0.1
0.08
0.06
0.04
0.02
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

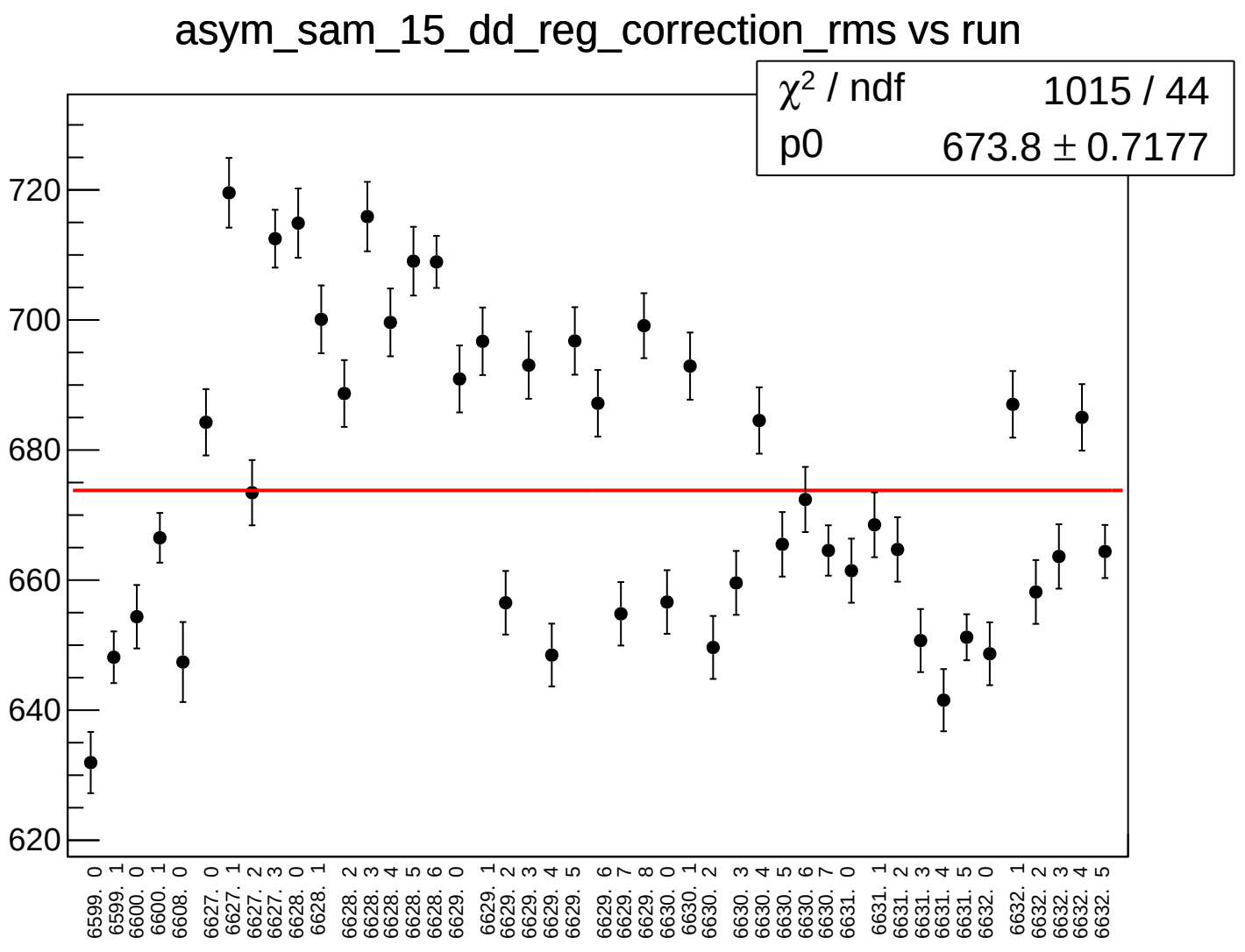

reg_asym_sam_15_dd_mean vs run
χ² / ndf 41.97 / 44
p0 132.3 ± 140.1
3000
2000
1000
0
−1000
−2000
−3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 222
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

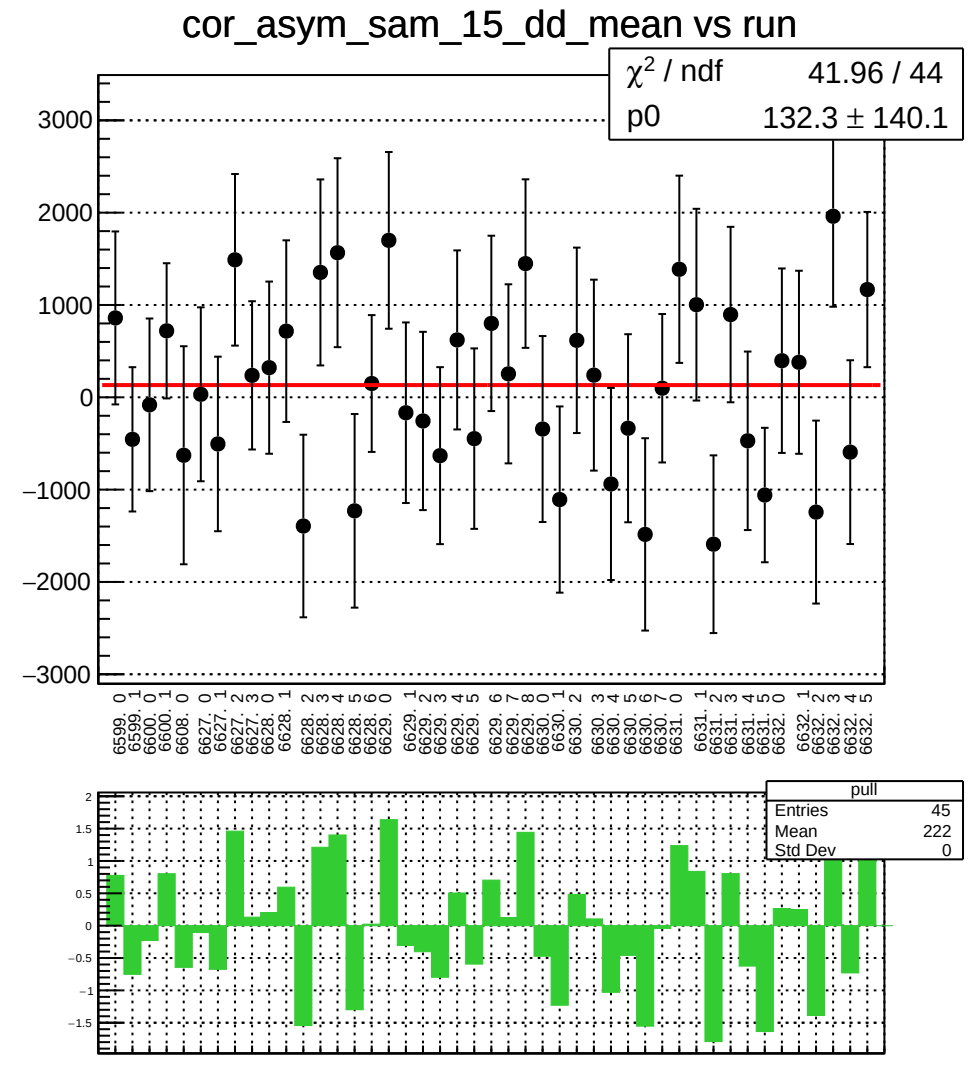

pull1D
Entries 45
Mean −0.0046
Std Dev 0.9657
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

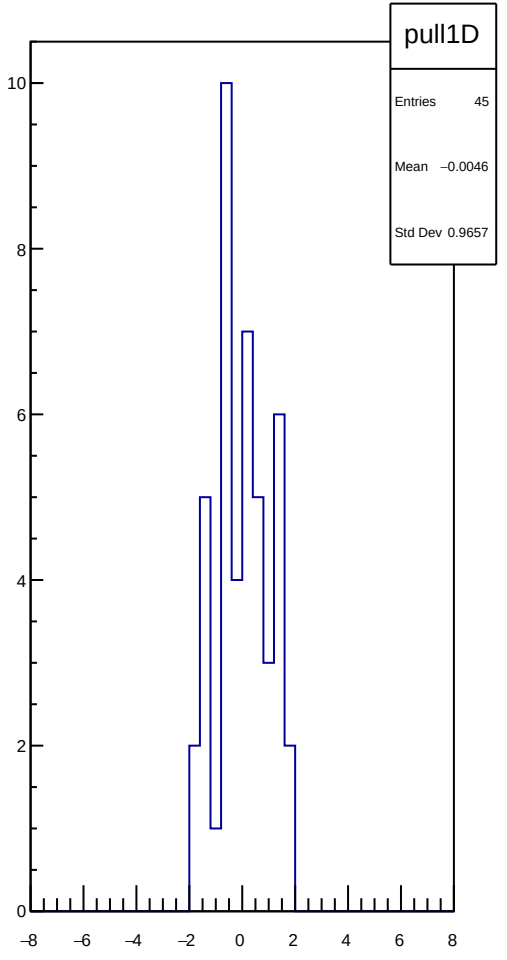

reg_asym_sam_15_dd_rms vs run
χ² / ndf 999.1 / 44
p0 93.04 ± 0.0991
100
98
96
94
92
90
88
86
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

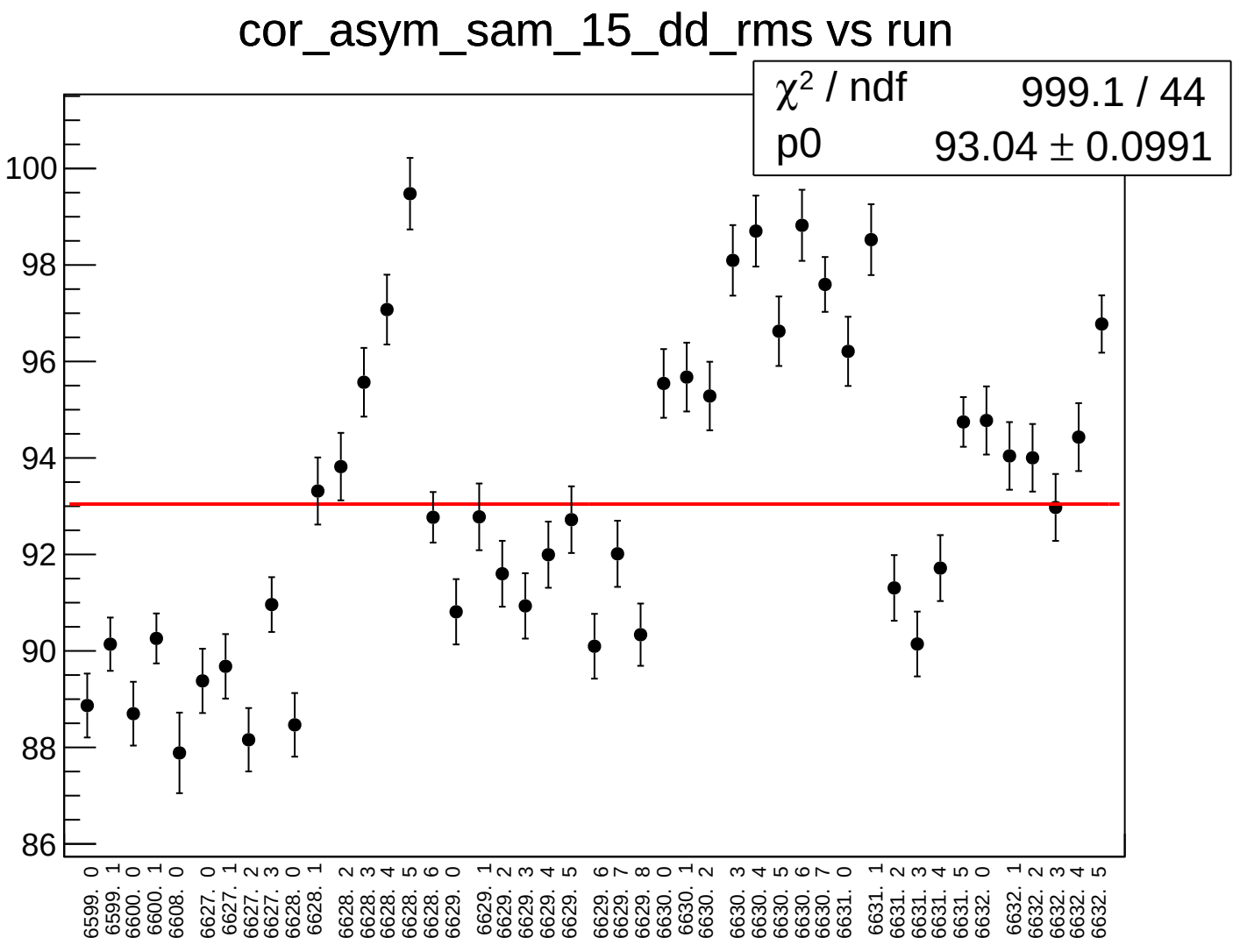

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 54.88 / 44
p0 187.6 ± 1015
20000
10000
0
−10000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −229.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

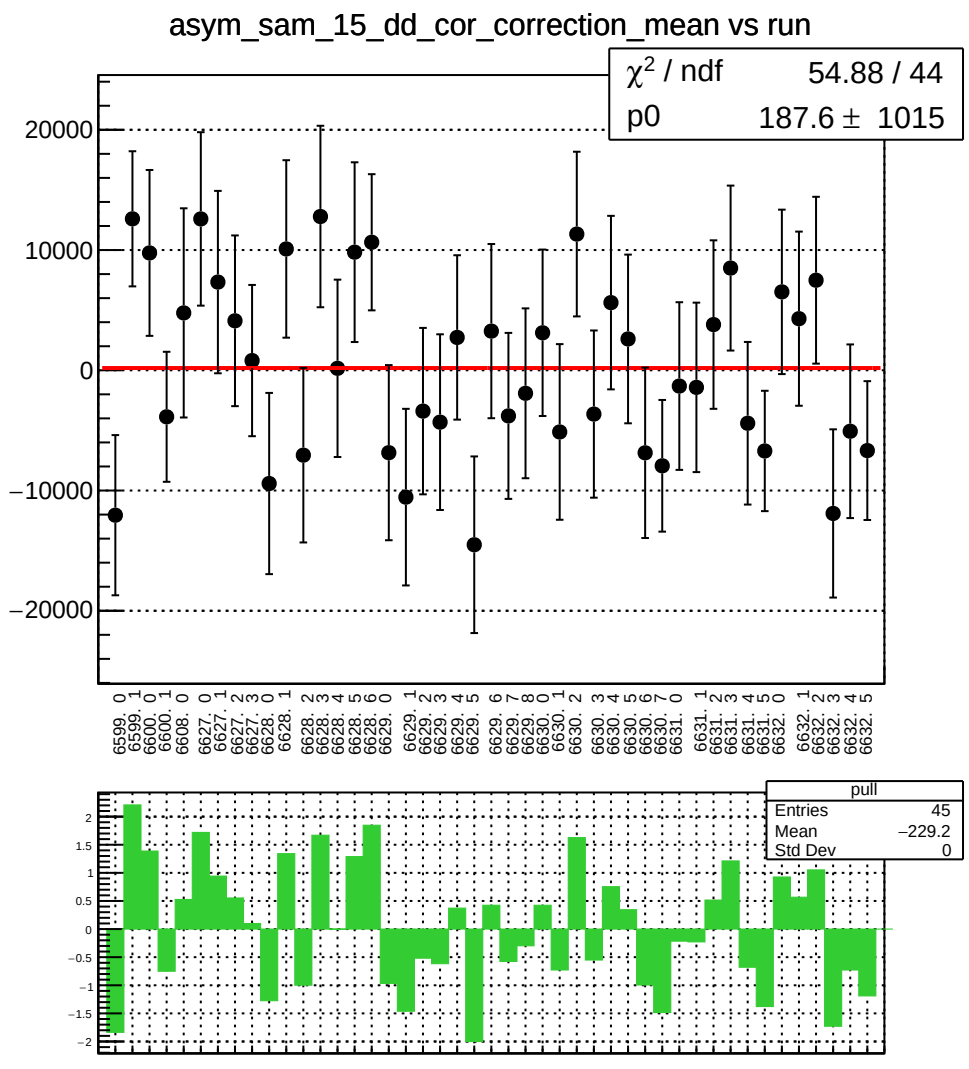

pull1D
Entries 45
Mean 0.0133
Std Dev 1.104
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

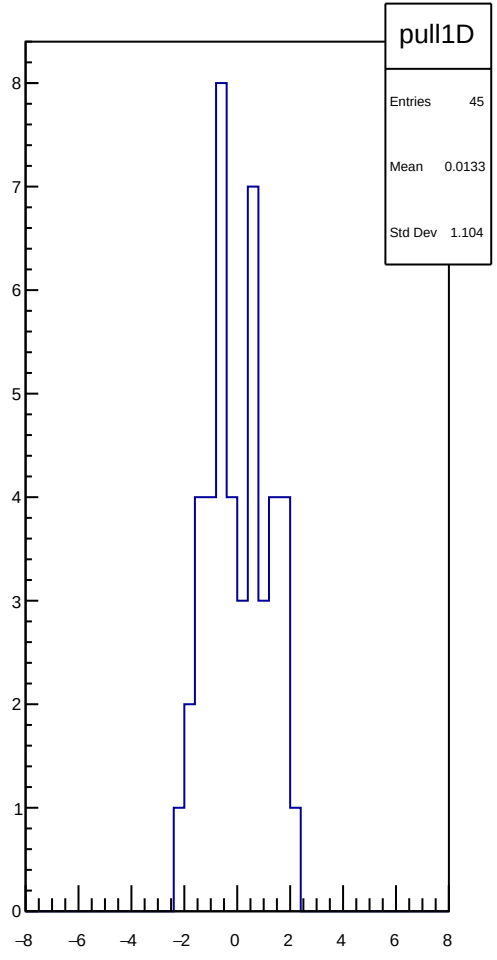

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 1015 / 44
p0 673.8 ± 0.7177
720
700
680
660
640
620
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

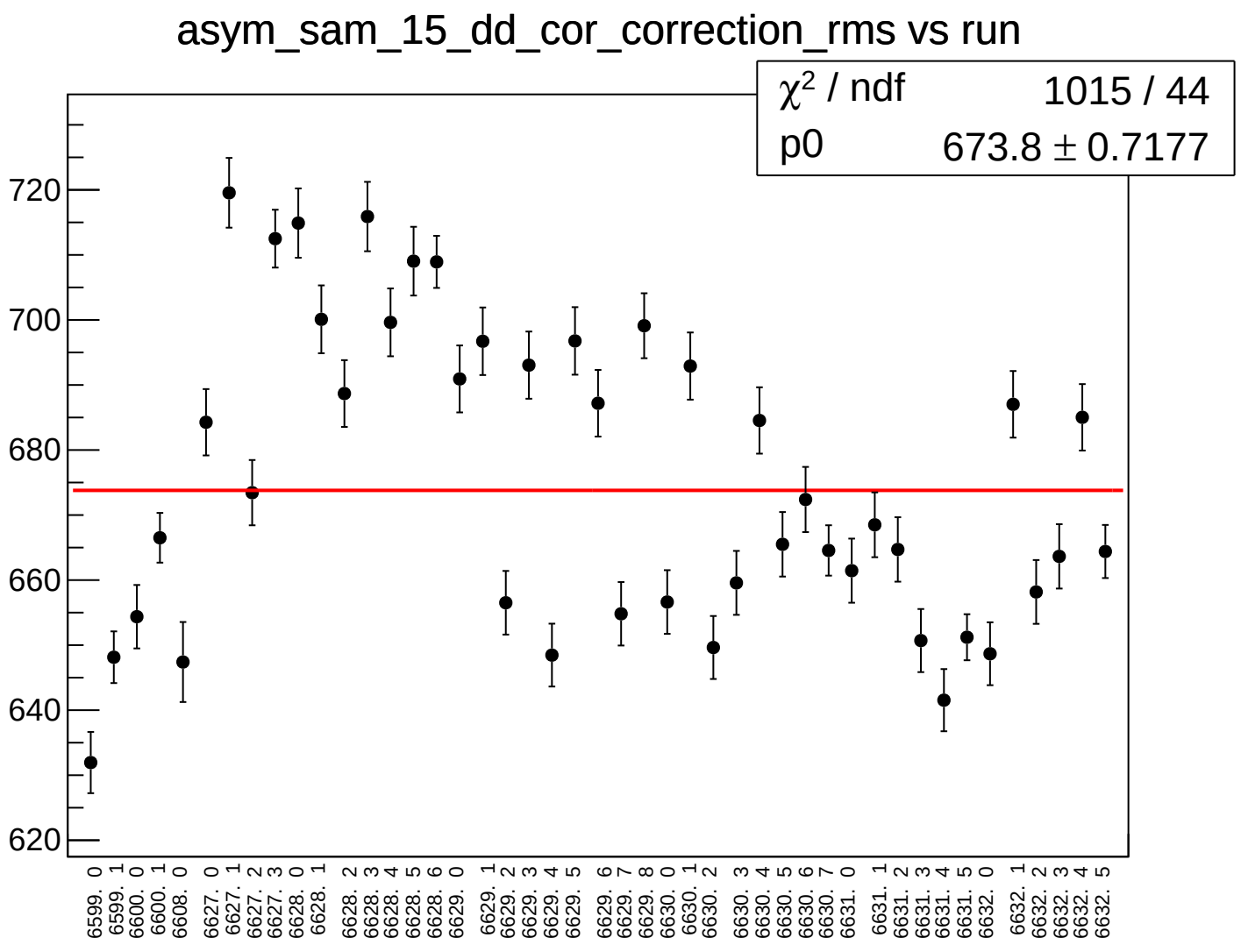

cor_asym_sam_15_dd_mean vs run
$\chi^2$ / ndf 41.96 / 44
p0 132.3 ± 140.1
3000
2000
1000
0
−1000
−2000
−3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 222
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

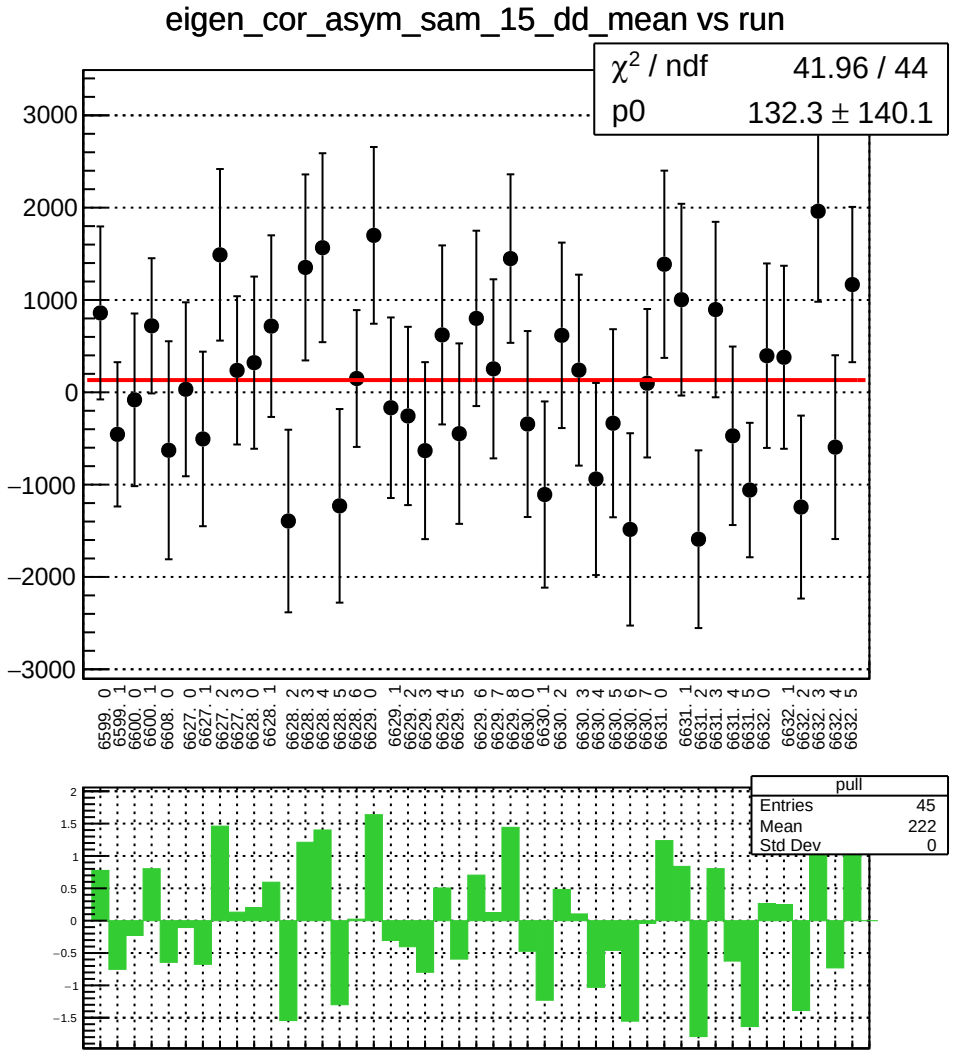

pull1D
Entries 45
Mean −0.0046
Std Dev 0.9657
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

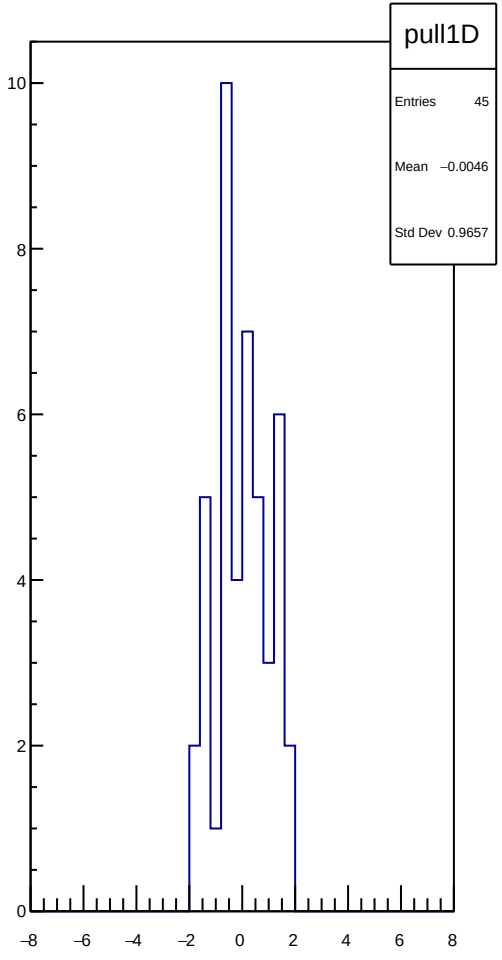

cor_asym_sam_15_dd_rms vs run
χ² / ndf 999.1 / 44
p0 93.04 ± 0.0991
100
98
96
94
92
90
88
86
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

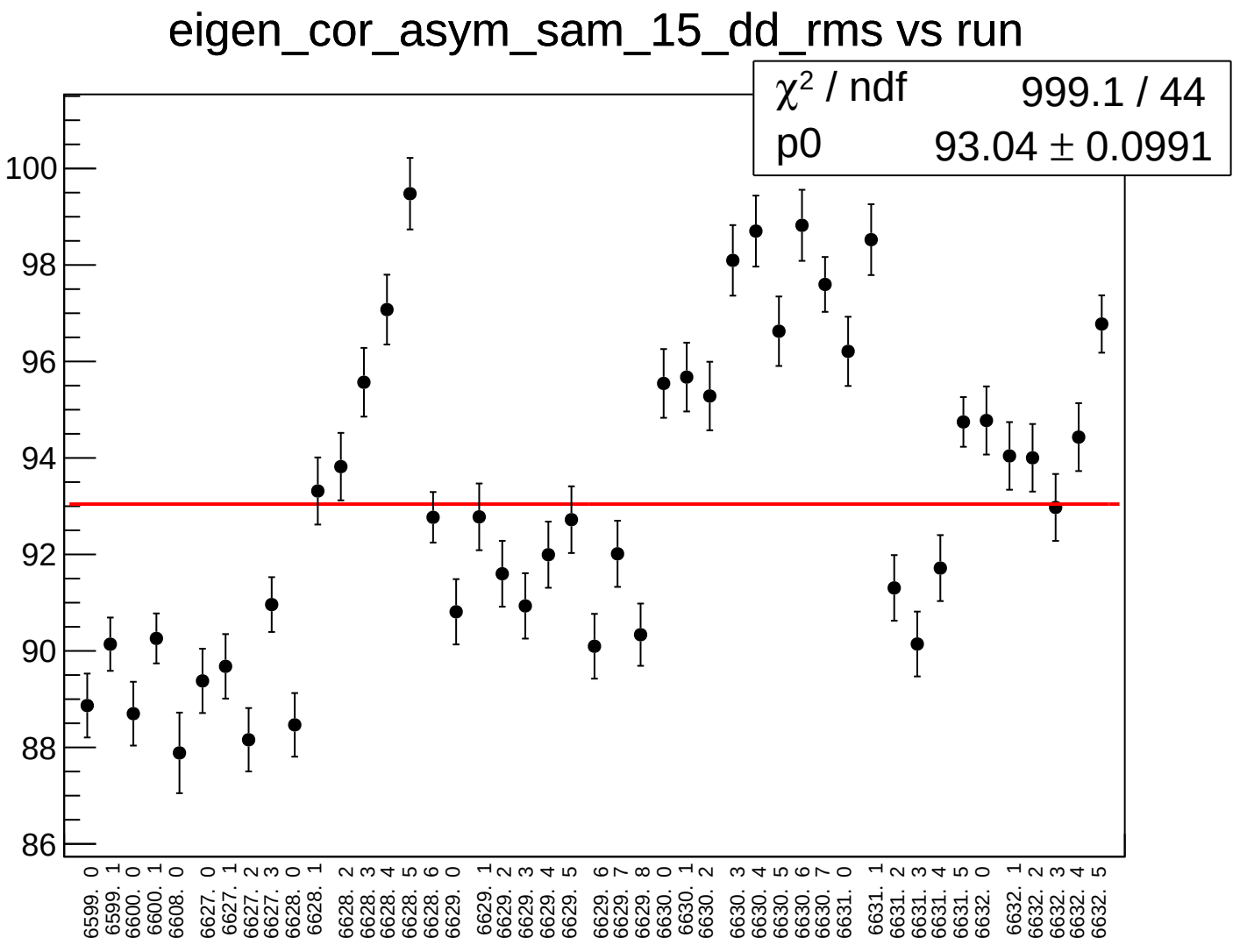

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 54.88 / 44
p0 187.6 ± 1015
20000
10000
0
−10000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −229.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.0133
Std Dev 1.104
8
7
6
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 1015 / 44
p0 673.8 ± 0.7177
720
700
680
660
640
620
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 41.96 / 44
p0 132.3 ± 140.1
3000
2000
1000
0
−1000
−2000
−3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 222
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.0046
Std Dev 0.9657
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 999.1 / 44
p0 93.04 ± 0.0991
100
98
96
94
92
90
88
86
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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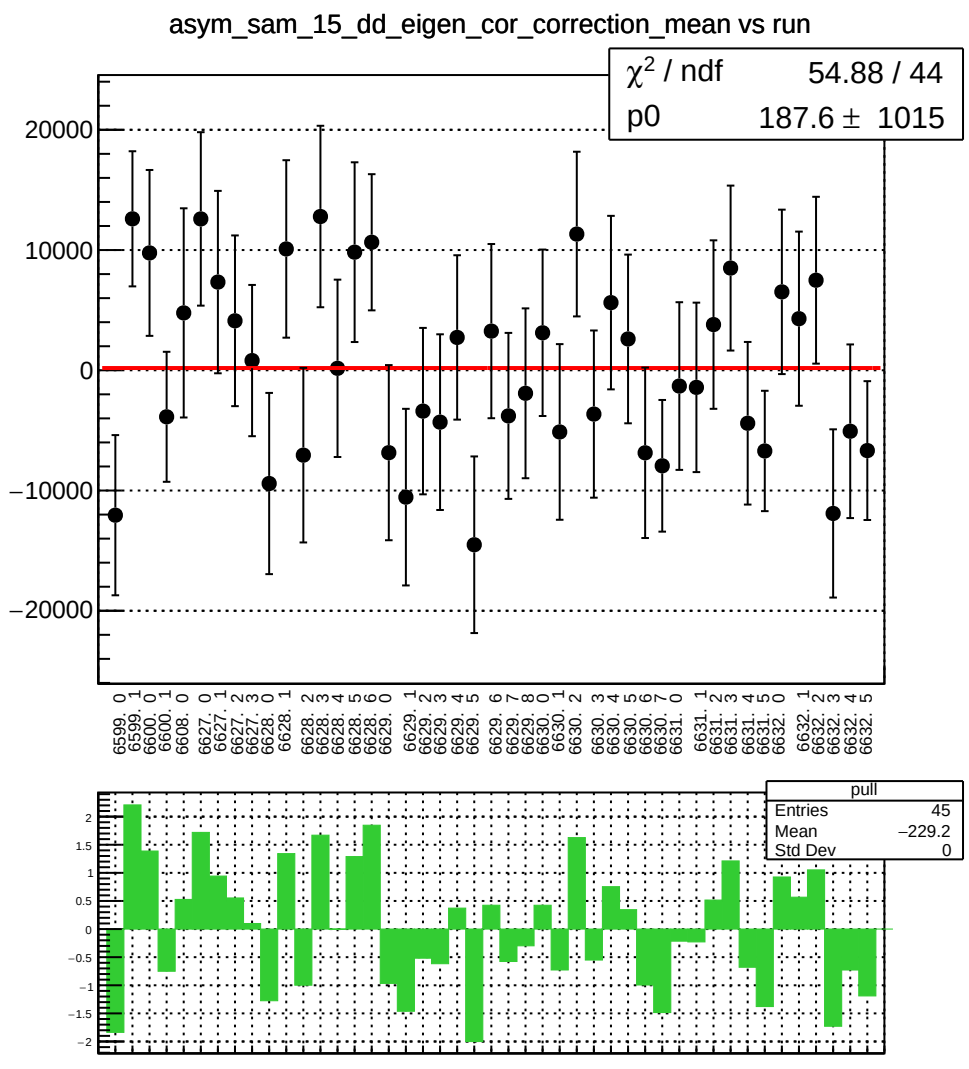
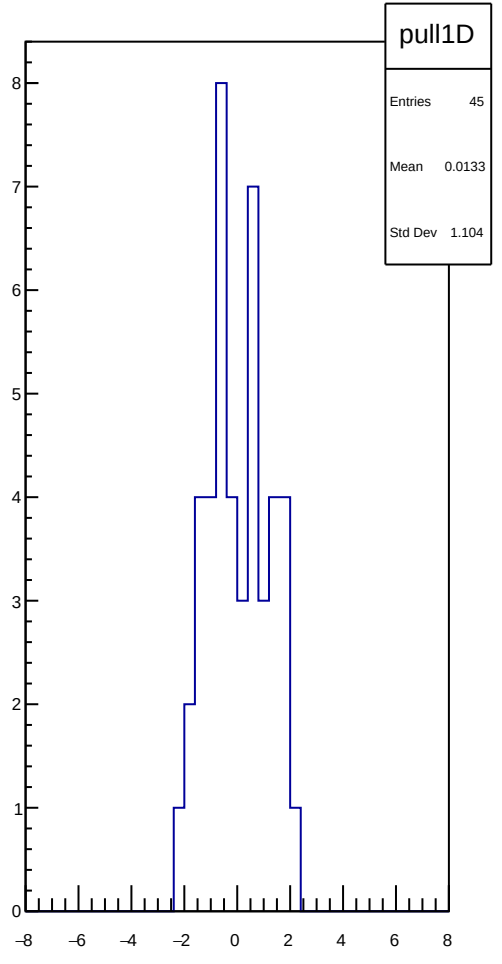
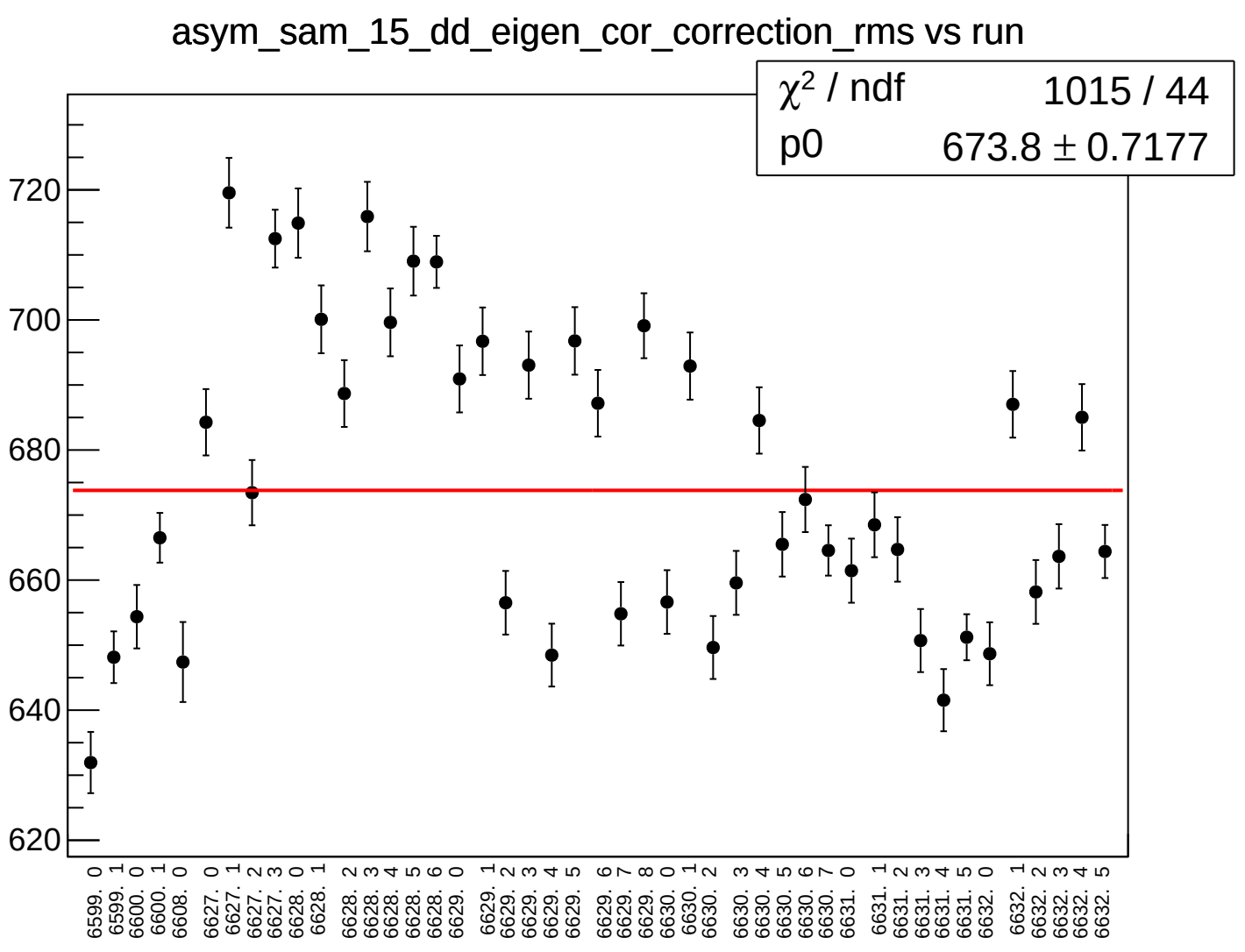
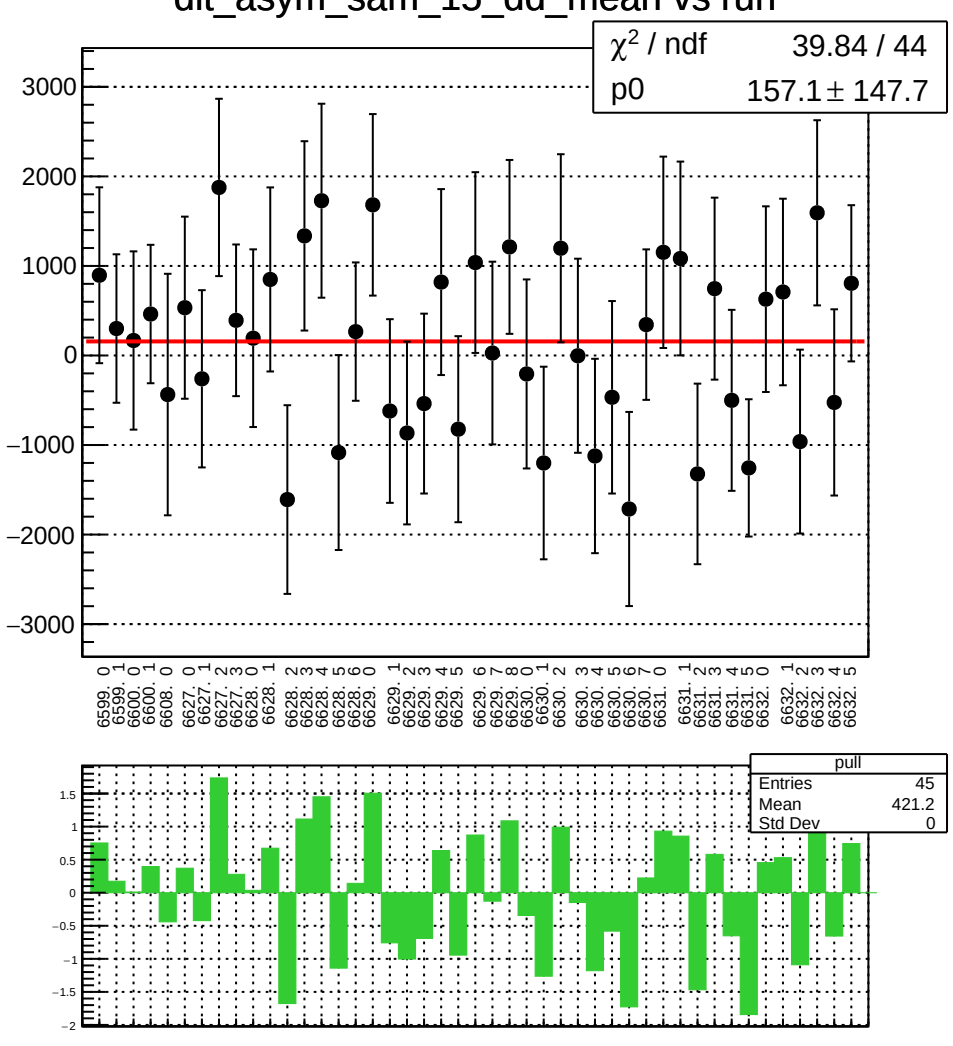
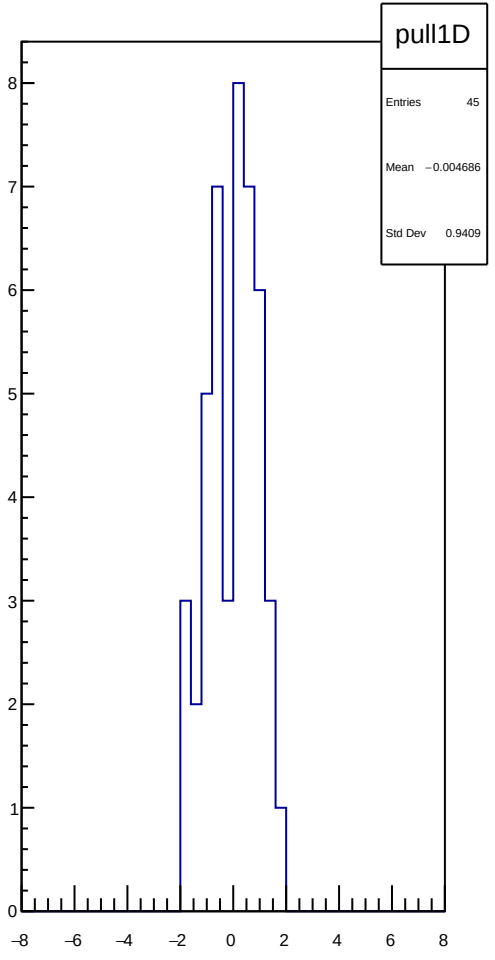
6632. 2
6632. 3
6632. 4
6632. 5

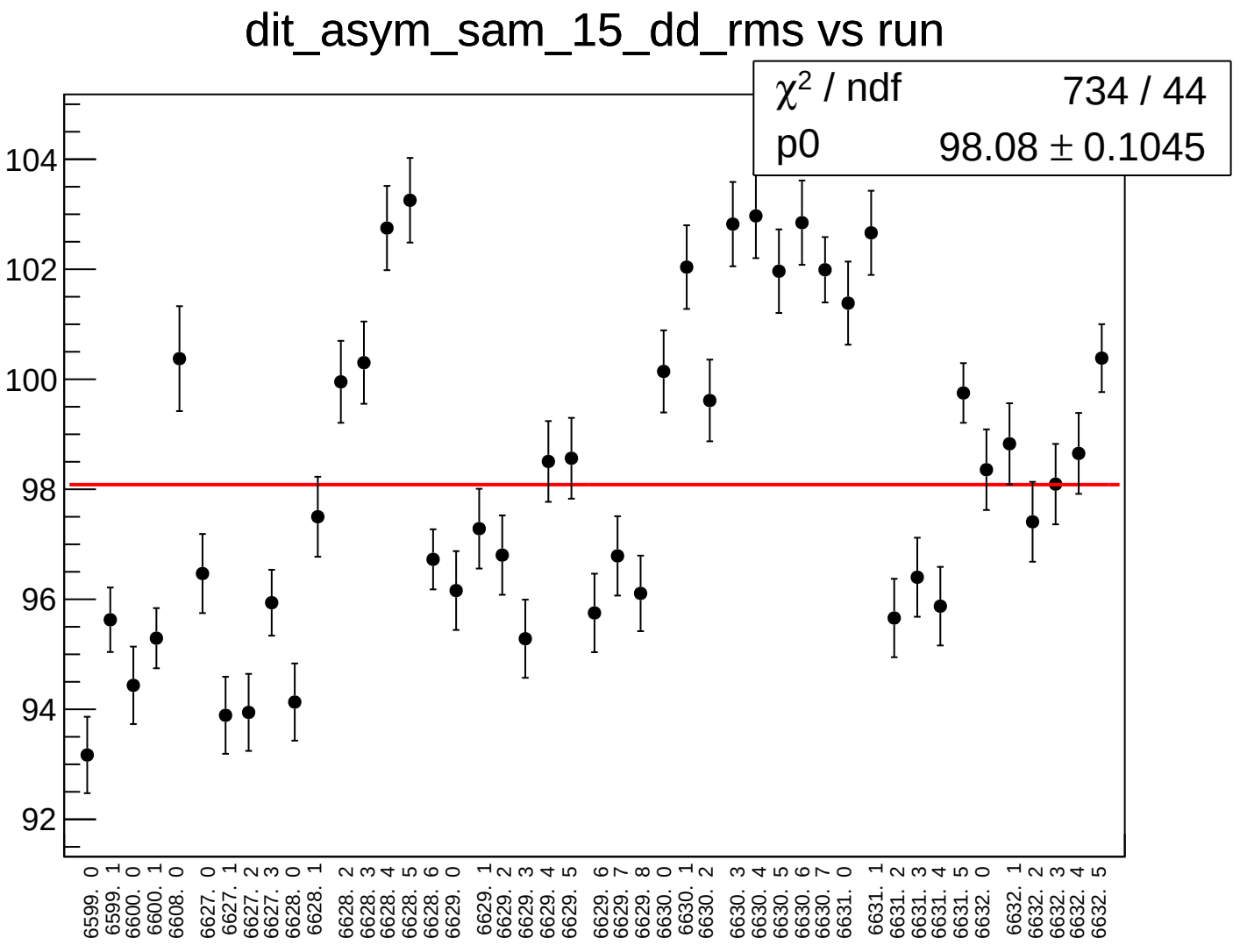

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 54.88 / 44
p0 187.6 ± 1015
20000
10000
0
−10000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −229.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.0133
Std Dev 1.104
8
7
6
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 1015 / 44
p0 673.8 ± 0.7177
720
700
680
660
640
620
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


dit_asym_sam_15_dd_mean vs run
χ² / ndf 39.84 / 44
p0 157.1 ± 147.7
3000
2000
1000
0
−1000
−2000
−3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 421.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.004686
Std Dev 0.9409
8
7
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 734 / 44
p0 98.08 ± 0.1045
104
102
100
98
96
94
92
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
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6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
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6630. 7
6631. 0
6631. 1
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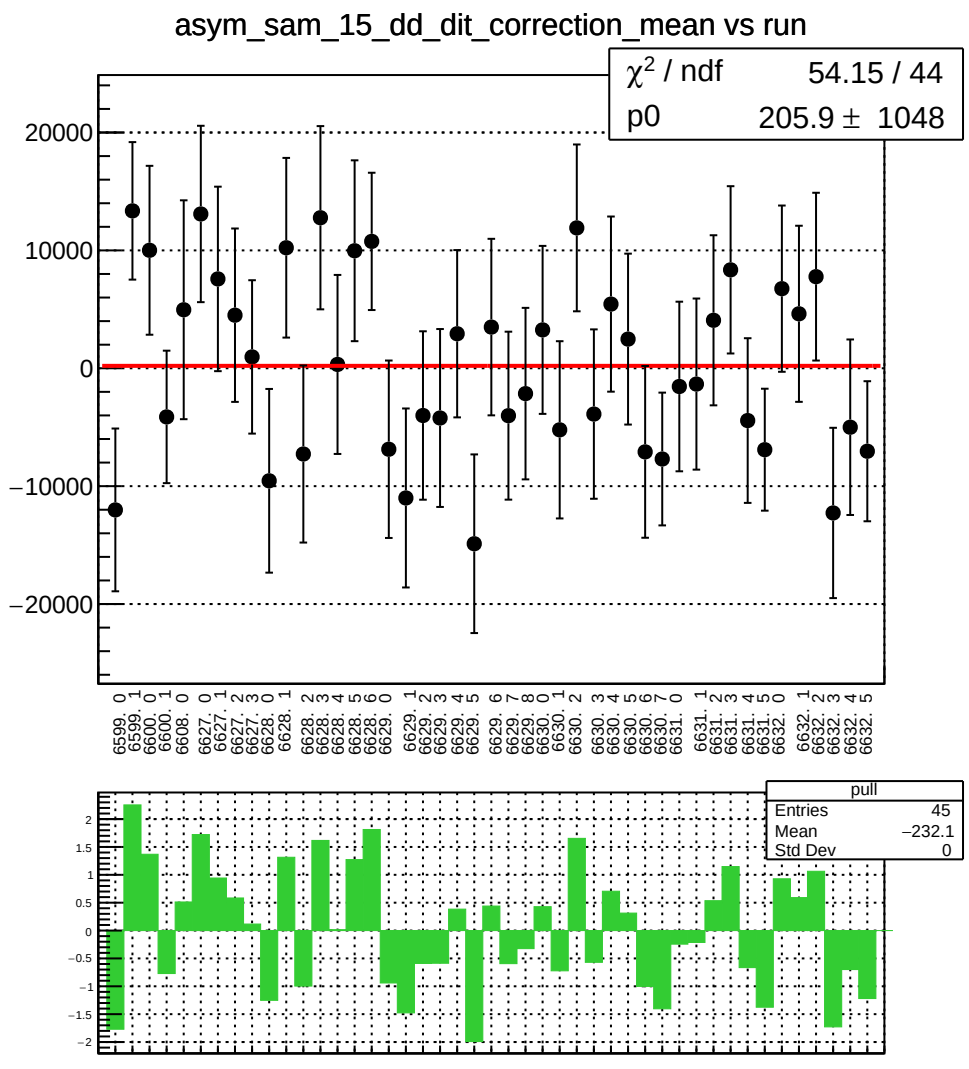
6632. 4
6632. 5


asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 54.15 / 44
p0 205.9 ± 1048
20000
10000
0
−10000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
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6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 5
6630. 6
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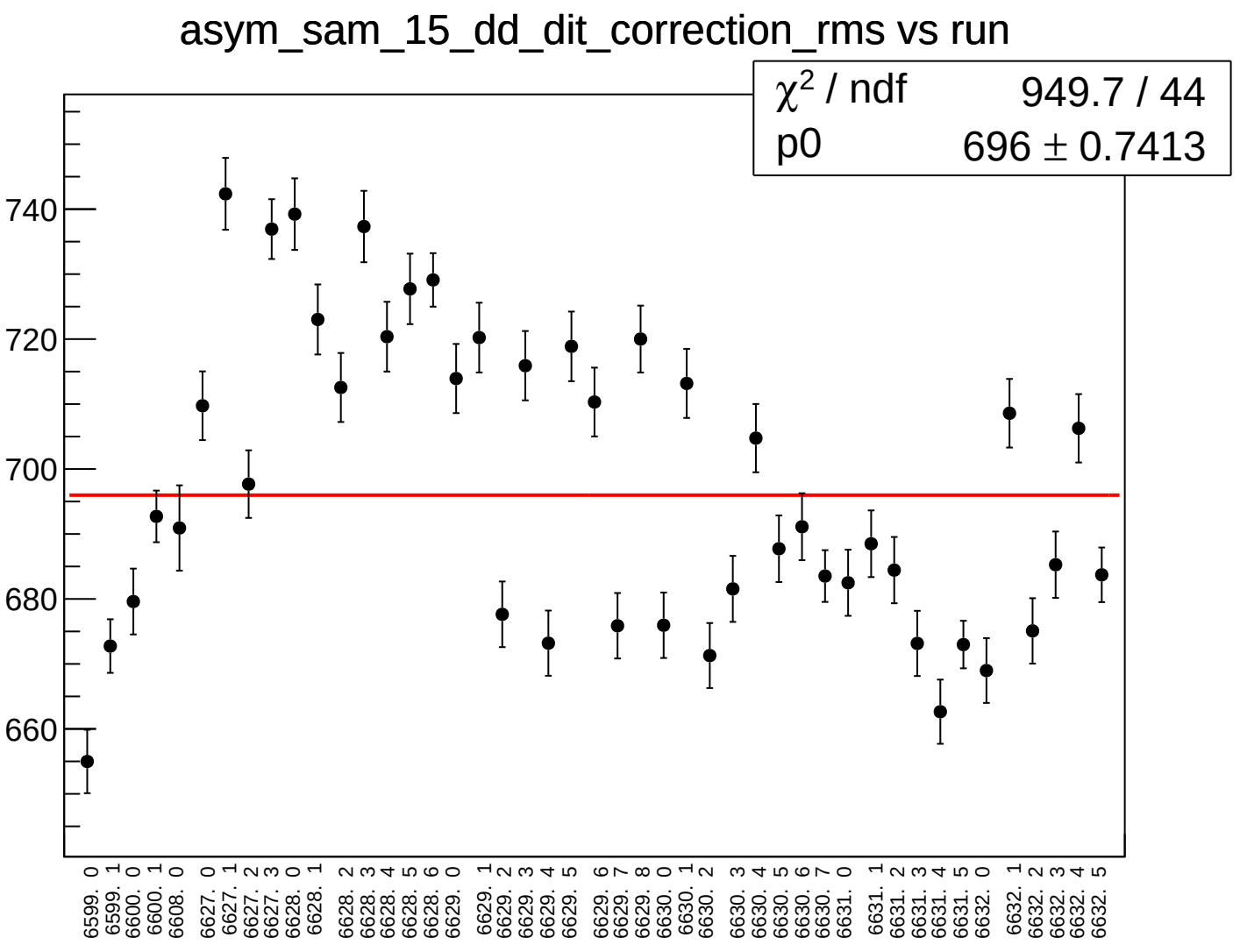
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −232.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01324
Std Dev 1.097
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 949.7 / 44
p0 696 ± 0.7413
740
720
700
680
660
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6629. 0
6629. 1
6629. 2
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6630. 2
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6630. 4
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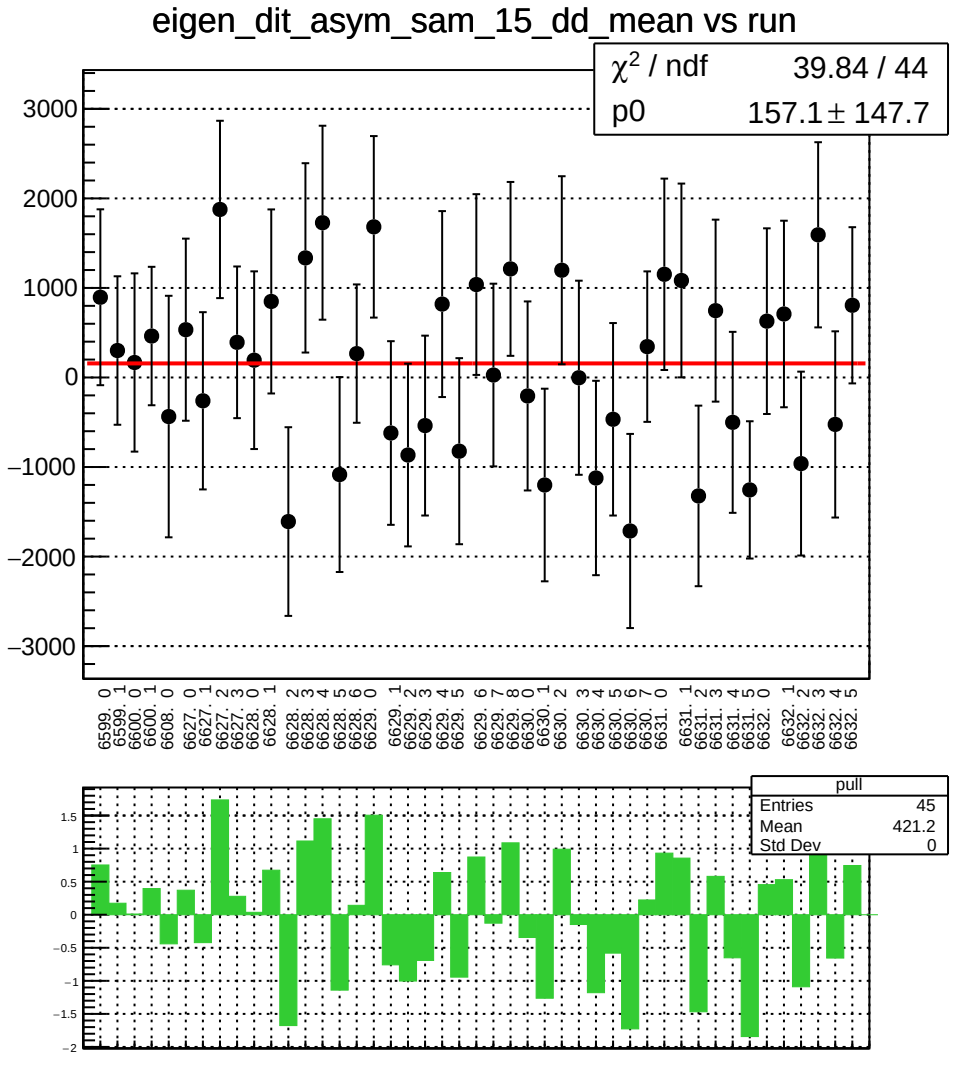
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 39.84 / 44
p0 157.1 ± 147.7
3000
2000
1000
0
−1000
−2000
−3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
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6630. 1
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6630. 7
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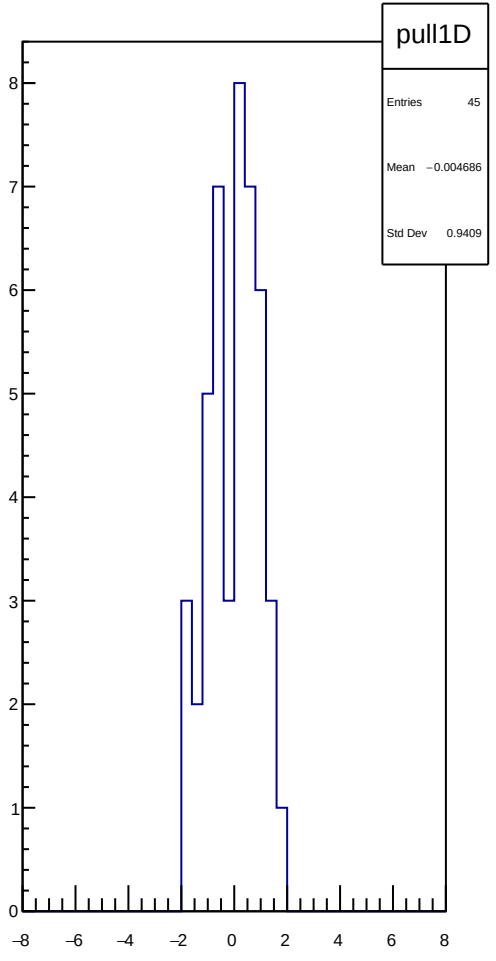
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 421.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.004686
Std Dev 0.9409
8
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5
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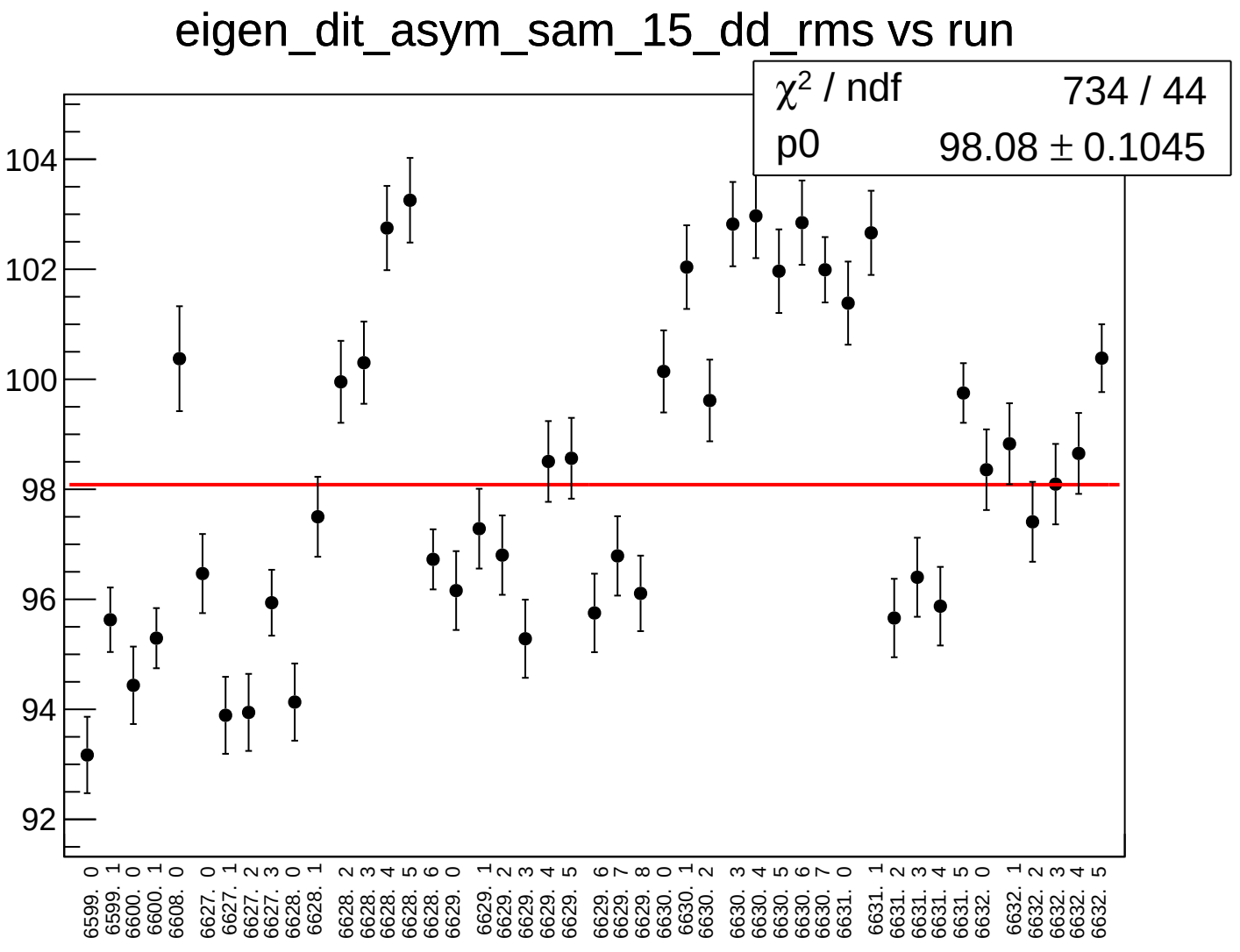
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 734 / 44
p0 98.08 ± 0.1045
104
102
100
98
96
94
92
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6630. 0
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6630. 3
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6631. 1
6631. 2
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6631. 4
6631. 5
6632. 0
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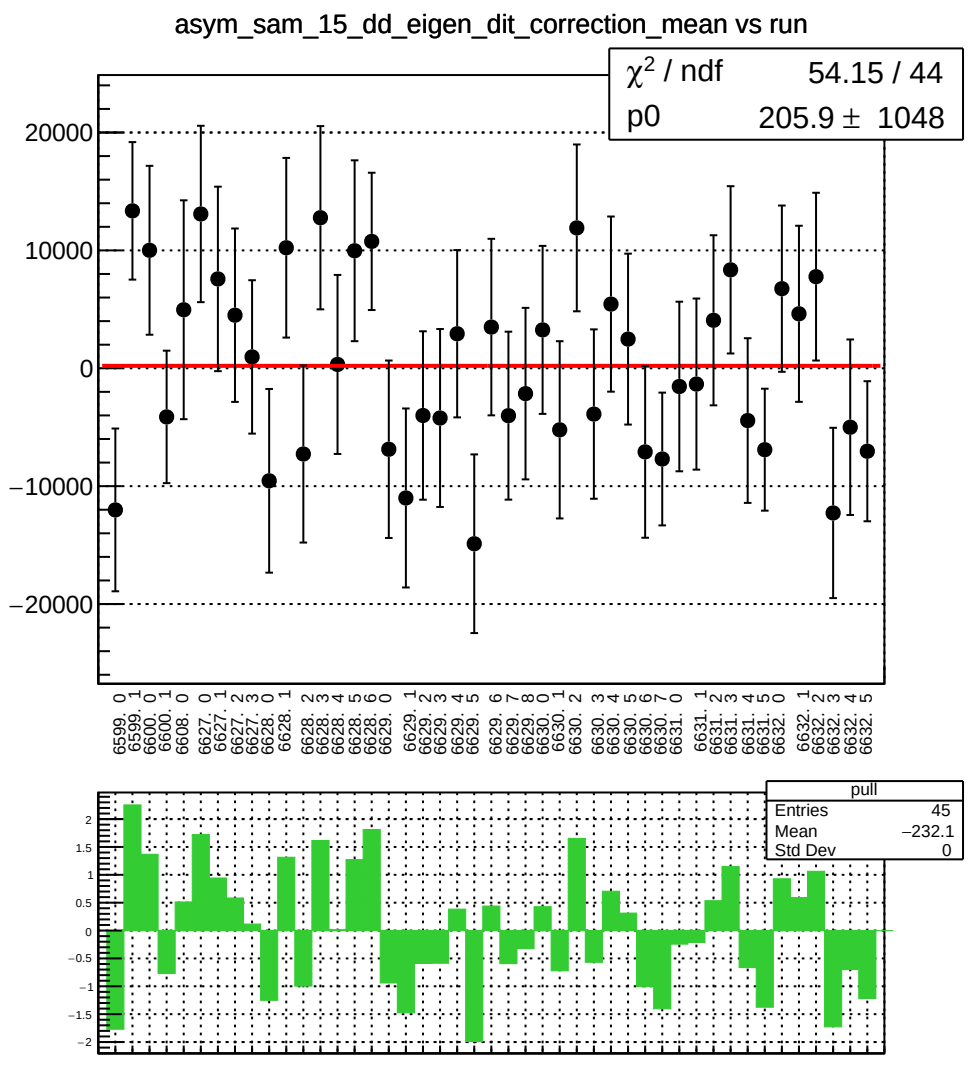
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 54.15 / 44
p0 205.9 ± 1048
20000
10000
0
−10000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −232.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01324
Std Dev 1.097
8
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5
4
3
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1
0
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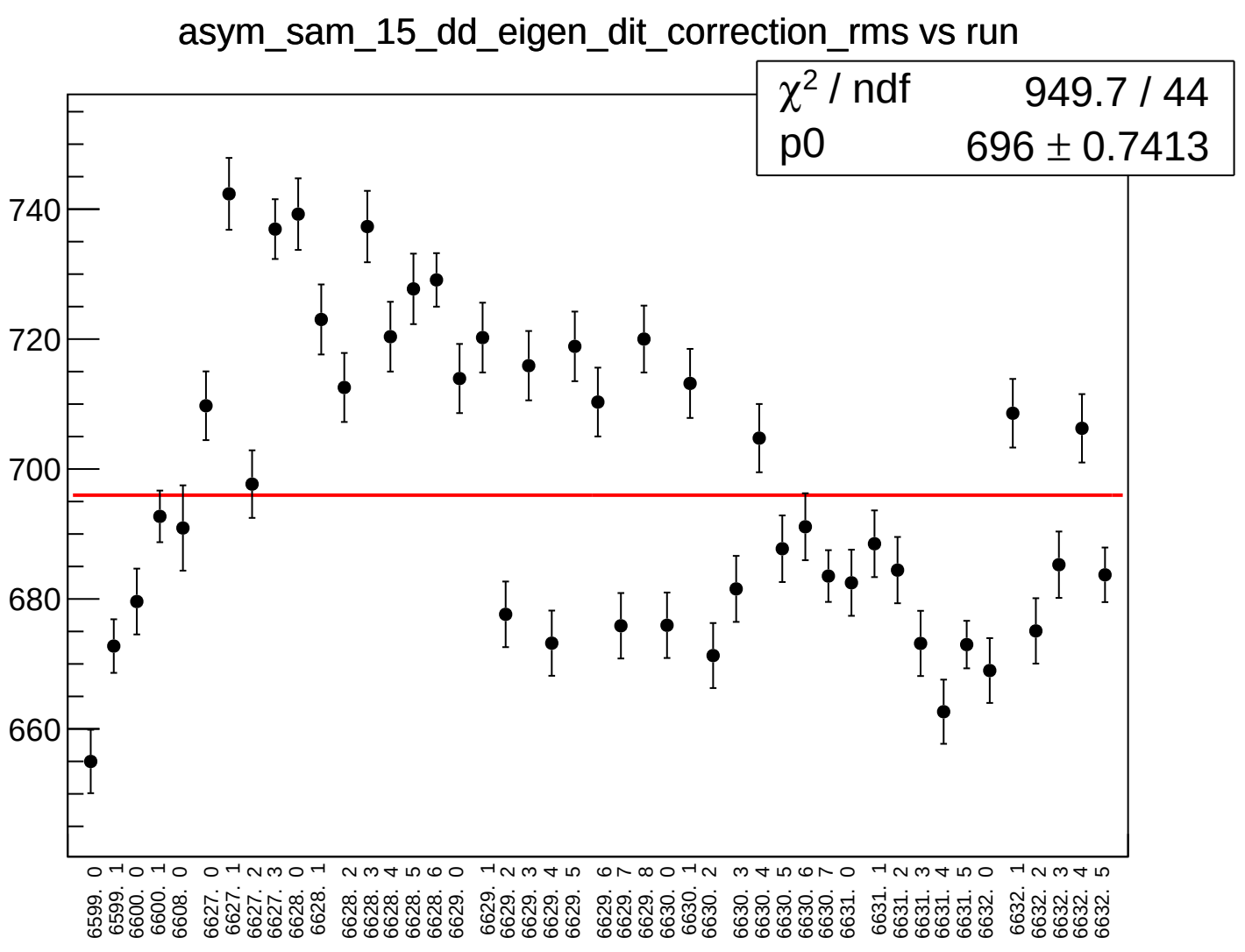
−6
−4
−2
0
2
4
6
8


asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 949.7 / 44
p0 696 ± 0.7413
740
720
700
680
660
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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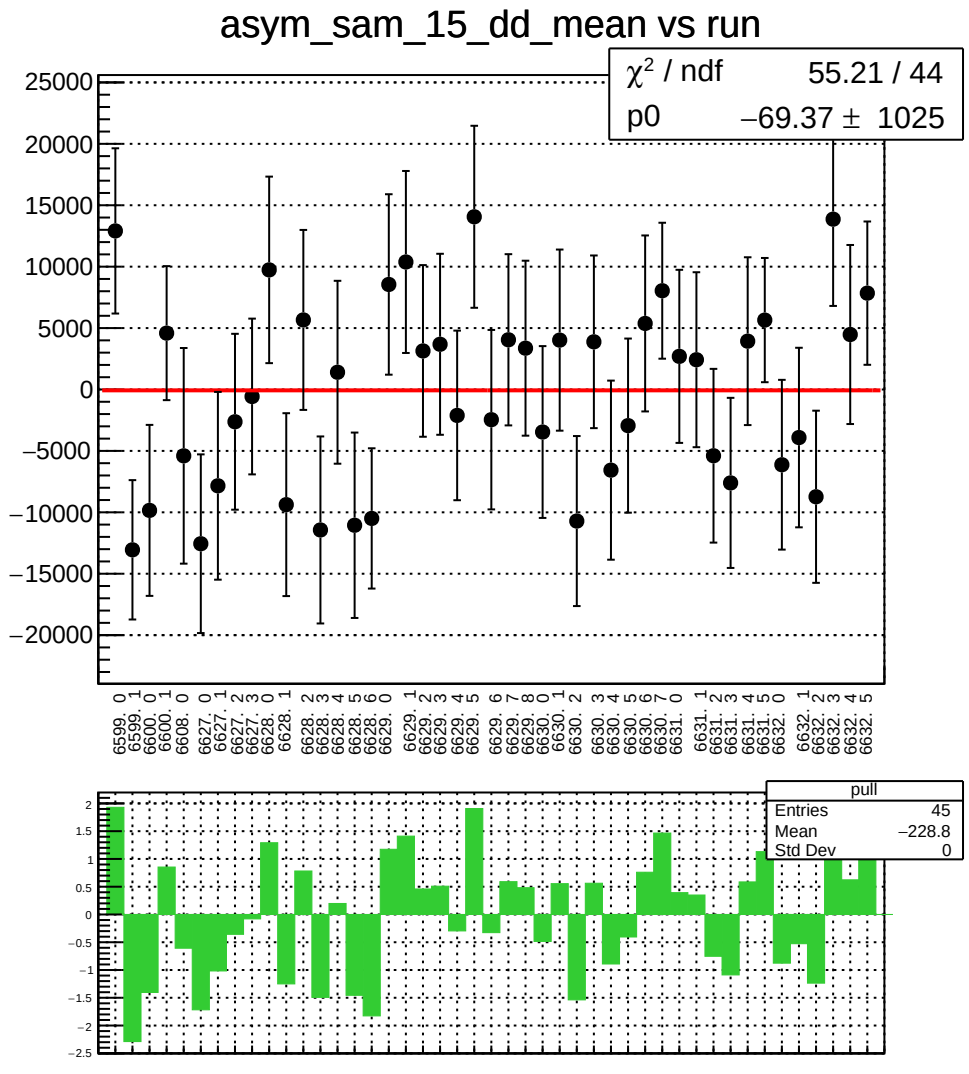
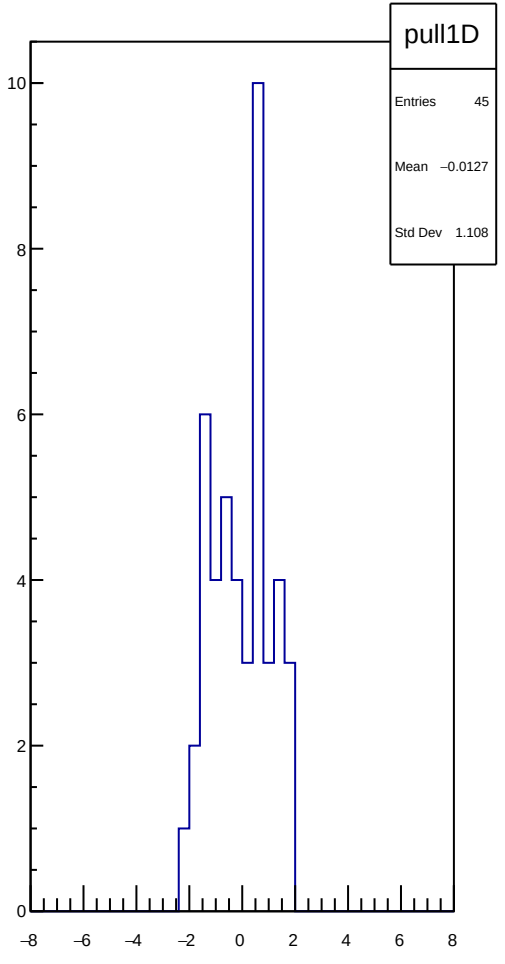
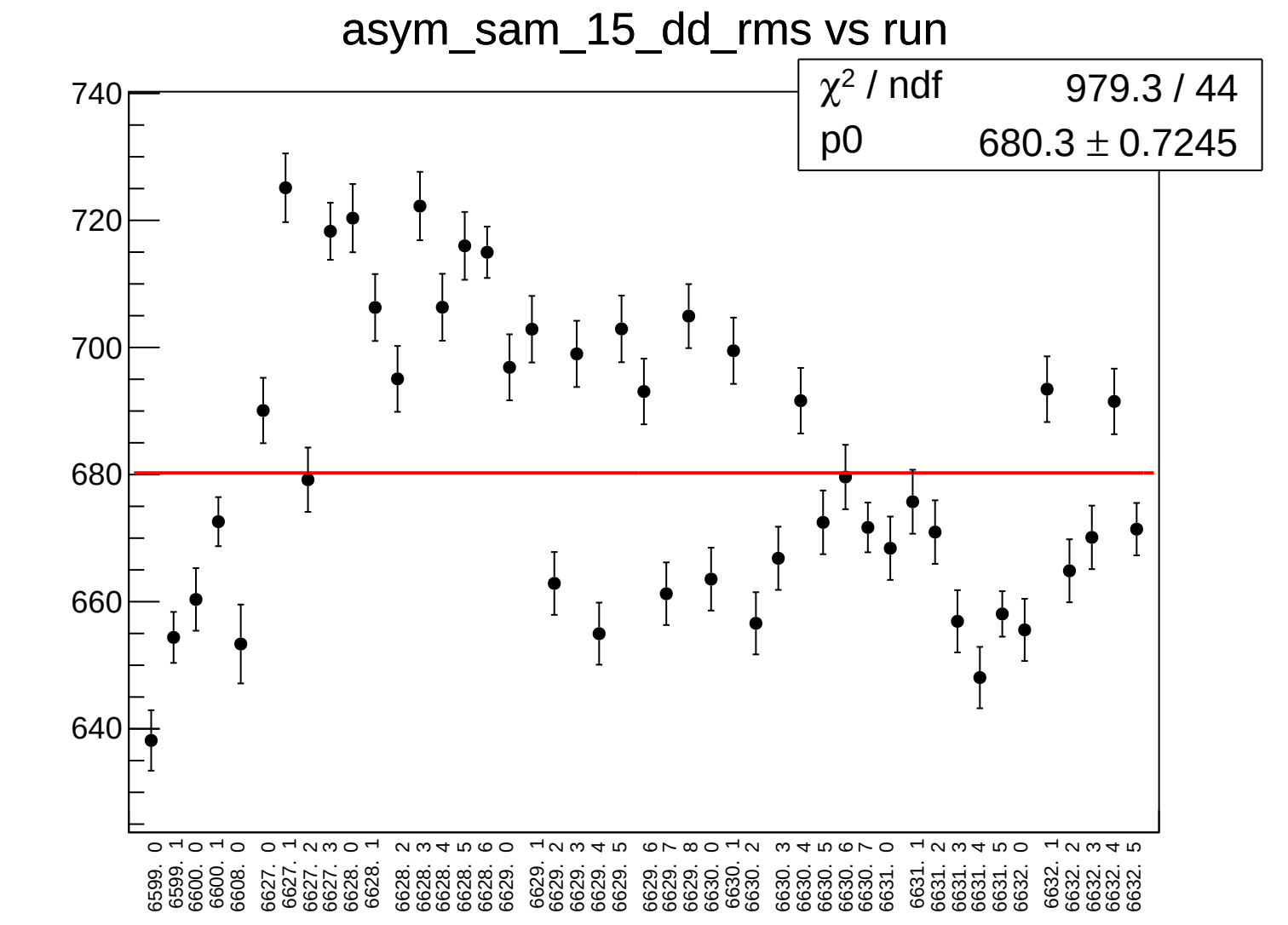
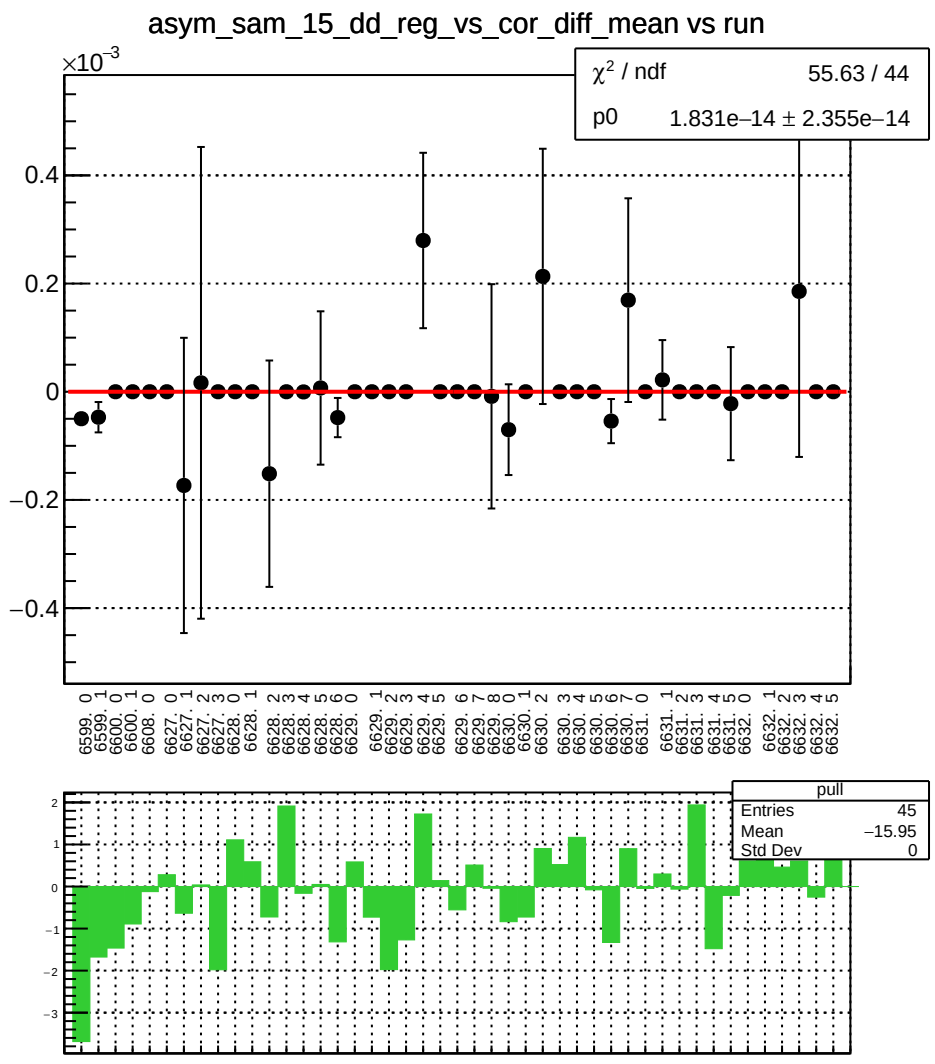
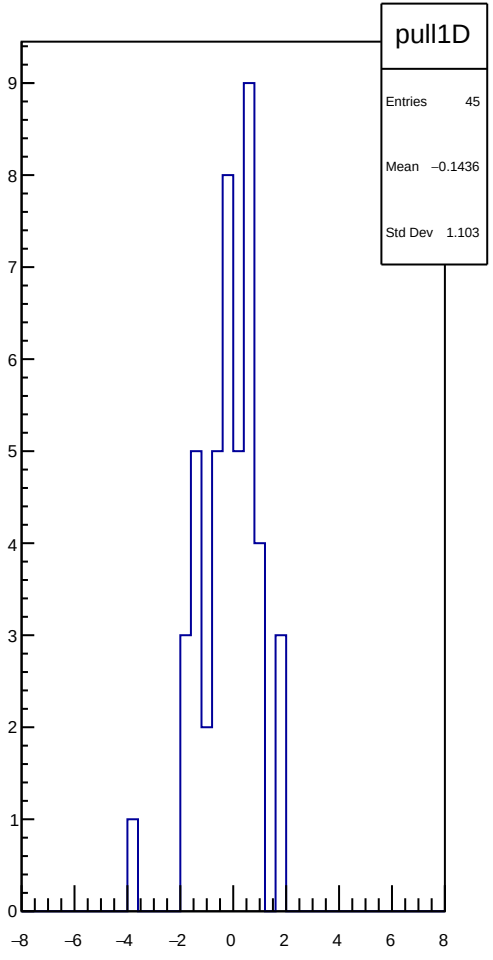
6632. 4
6632. 5

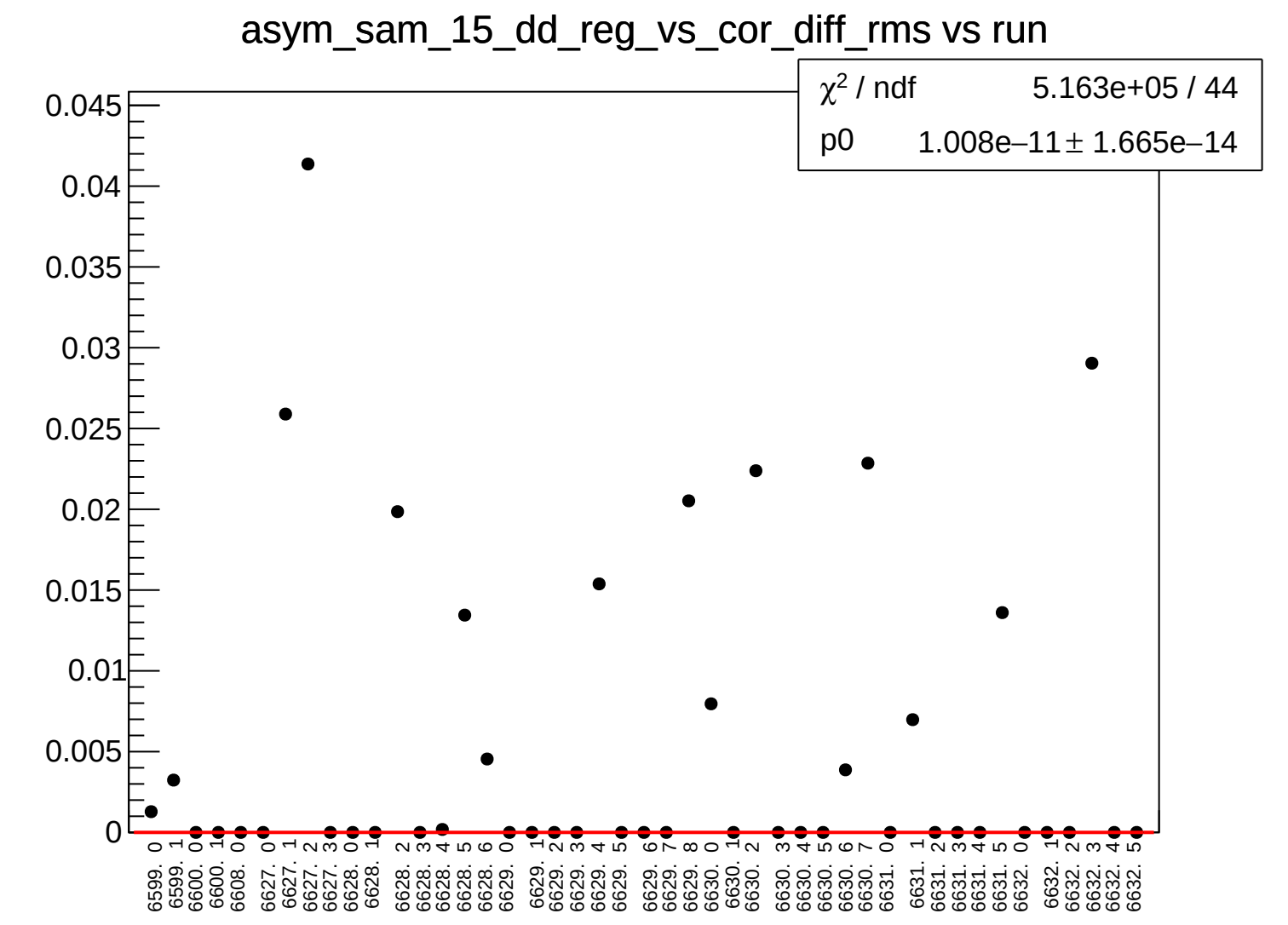

asym_sam_15_dd_mean vs run
χ² / ndf 55.21 / 44
p0 −69.37 ± 1025
pull
Entries 45
Mean −228.8
Std Dev 0

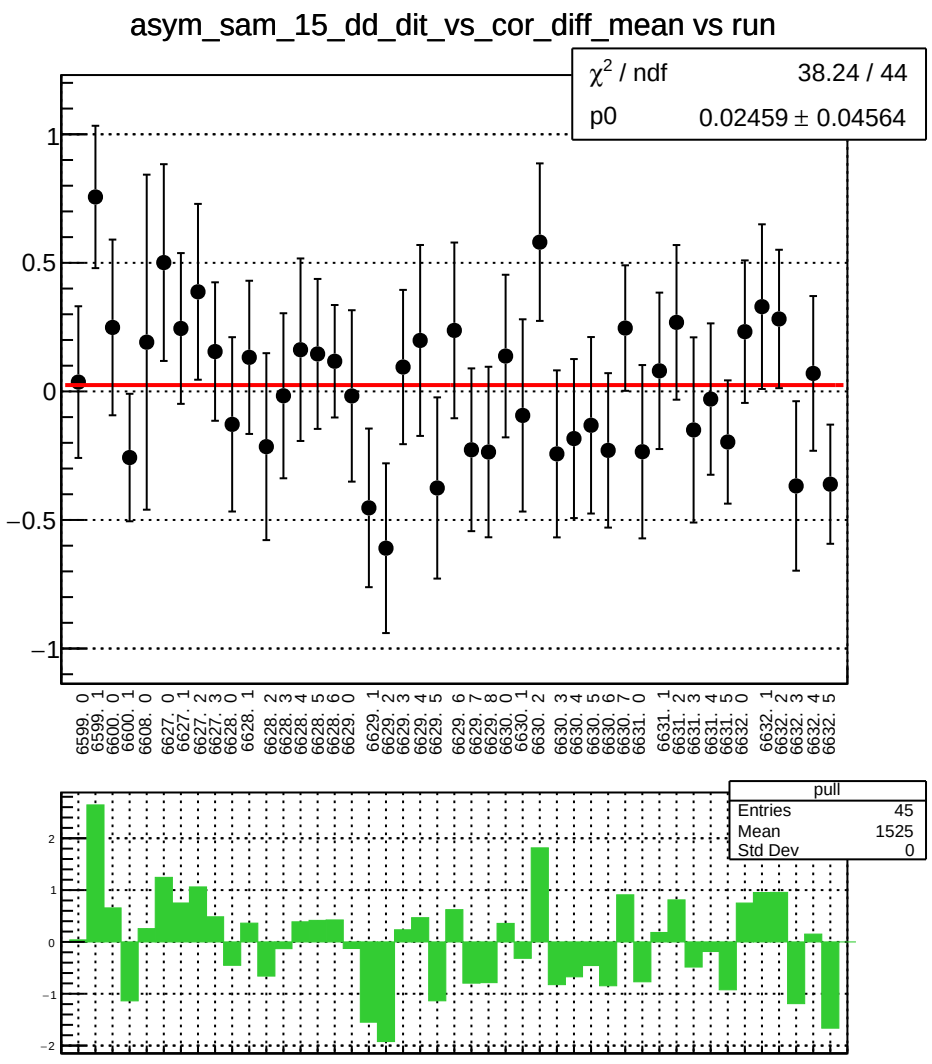

pull1D
Entries 45
Mean −0.0127
Std Dev 1.108

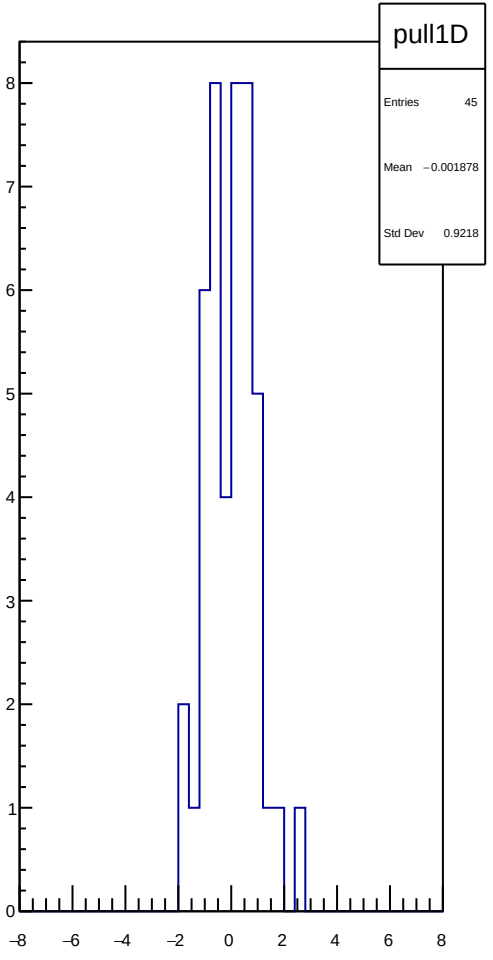

asym_sam_15_dd_rms vs run
$\chi^2$ / ndf 979.3 / 44
p0 680.3 ± 0.7245
740
720
700
680
660
640
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

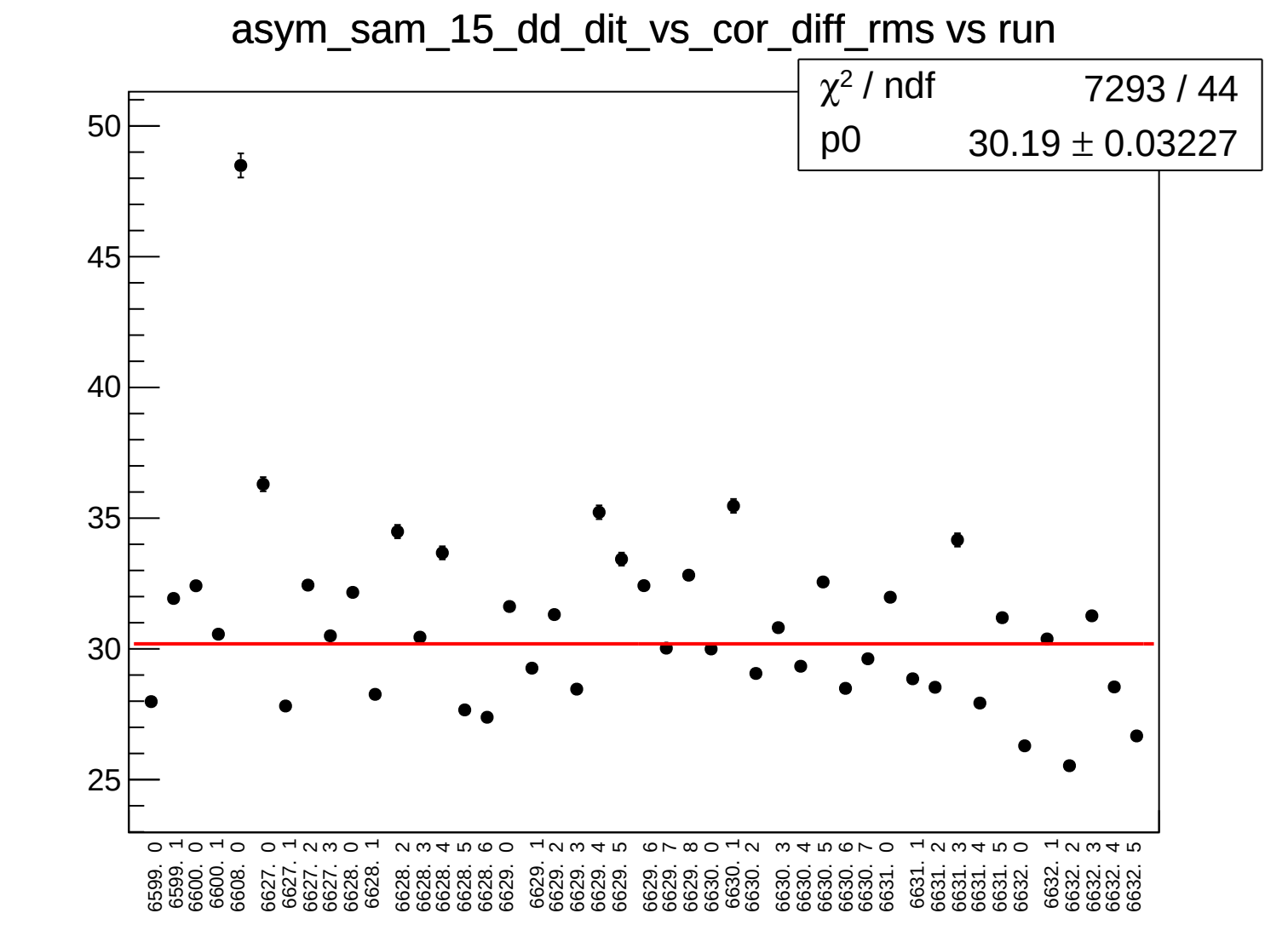

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 55.63 / 44
p0 1.831e−14 ± 2.355e−14
0.4
0.2
0
−0.2
−0.4
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −15.95
Std Dev 0
2
1
0
−1
−2
−3

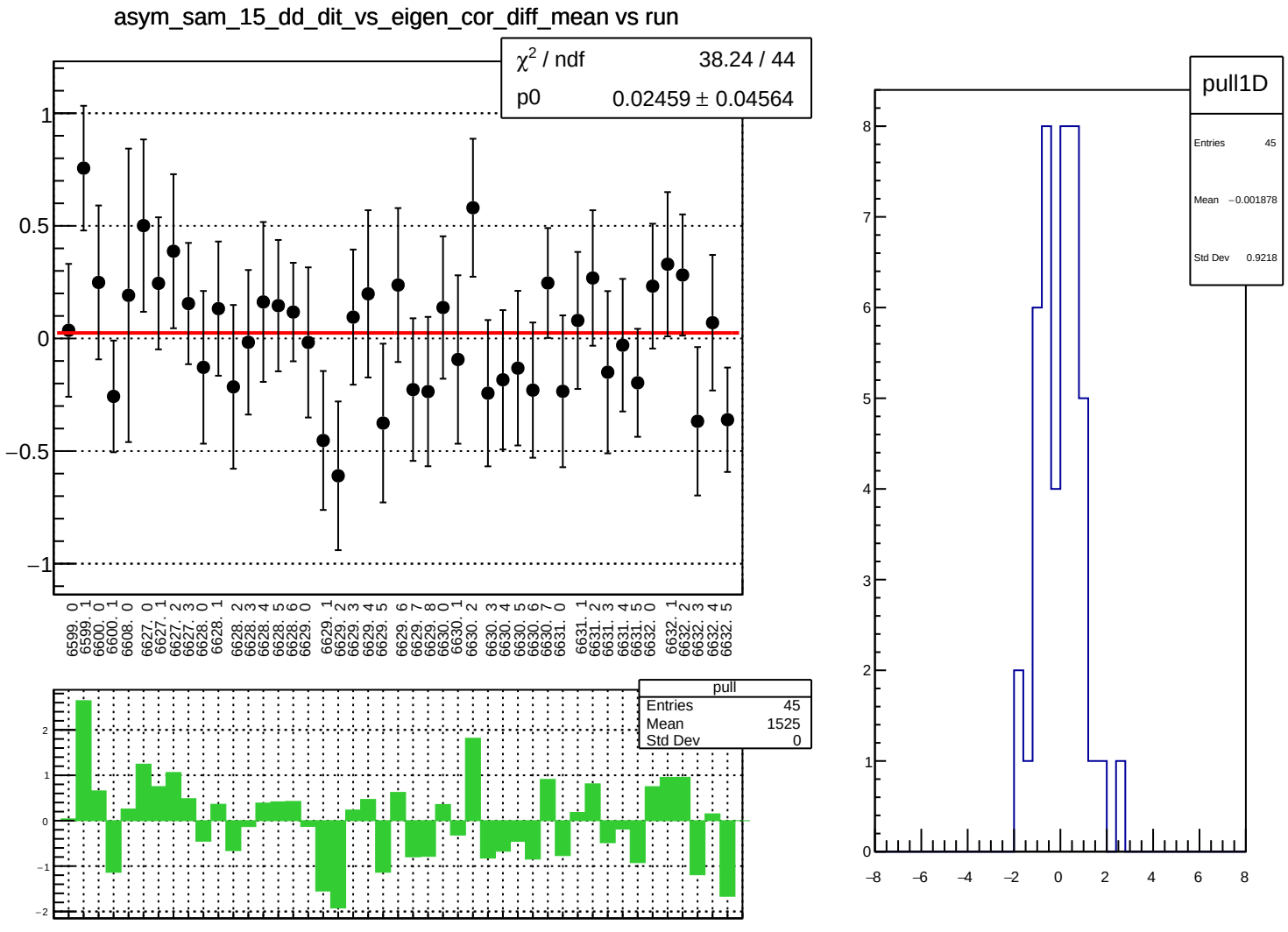

pull1D
Entries 45
Mean −0.1436
Std Dev 1.103
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

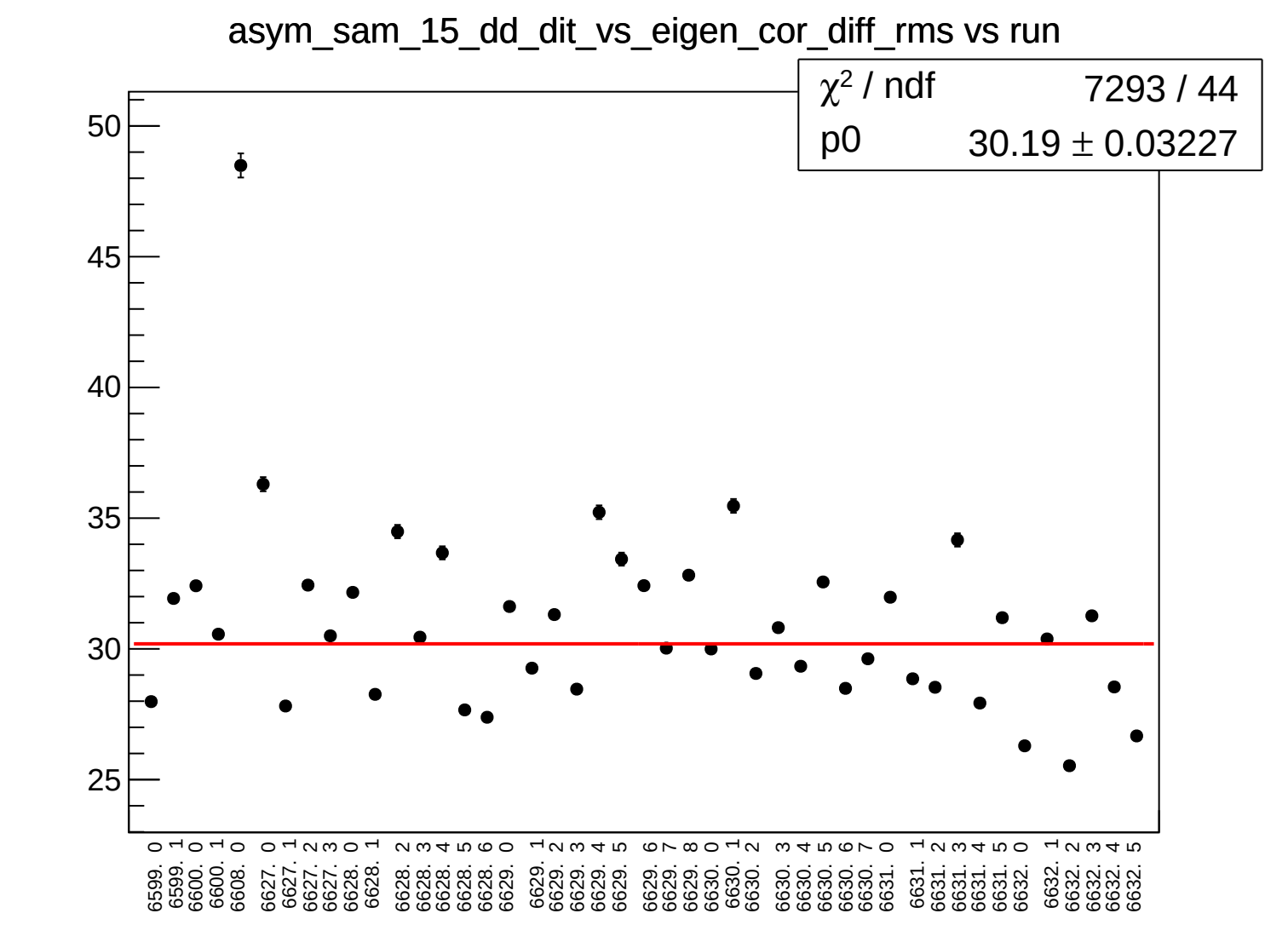

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.163e+05 / 44
p0 1.008e−11 ± 1.665e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

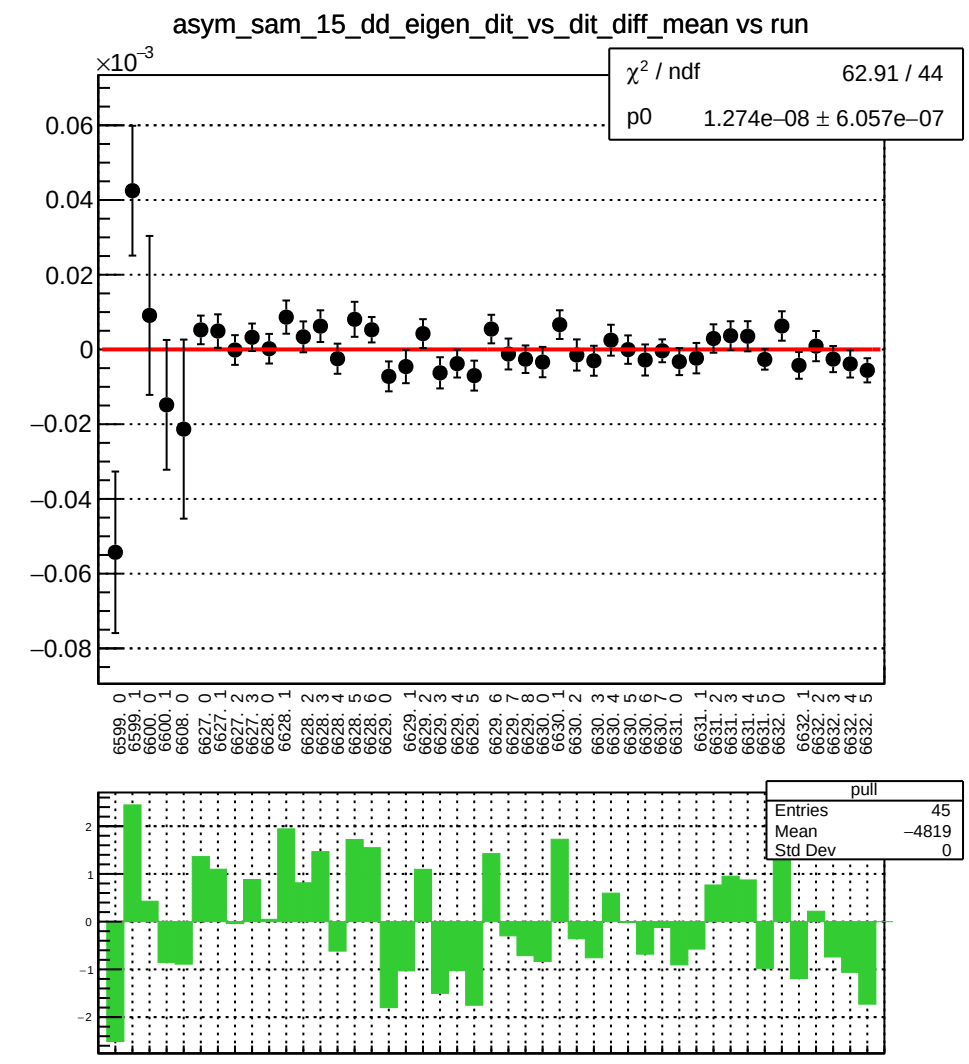

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 38.24 / 44
p0 0.02459 ± 0.04564
pull
Entries 45
Mean 1525
Std Dev 0

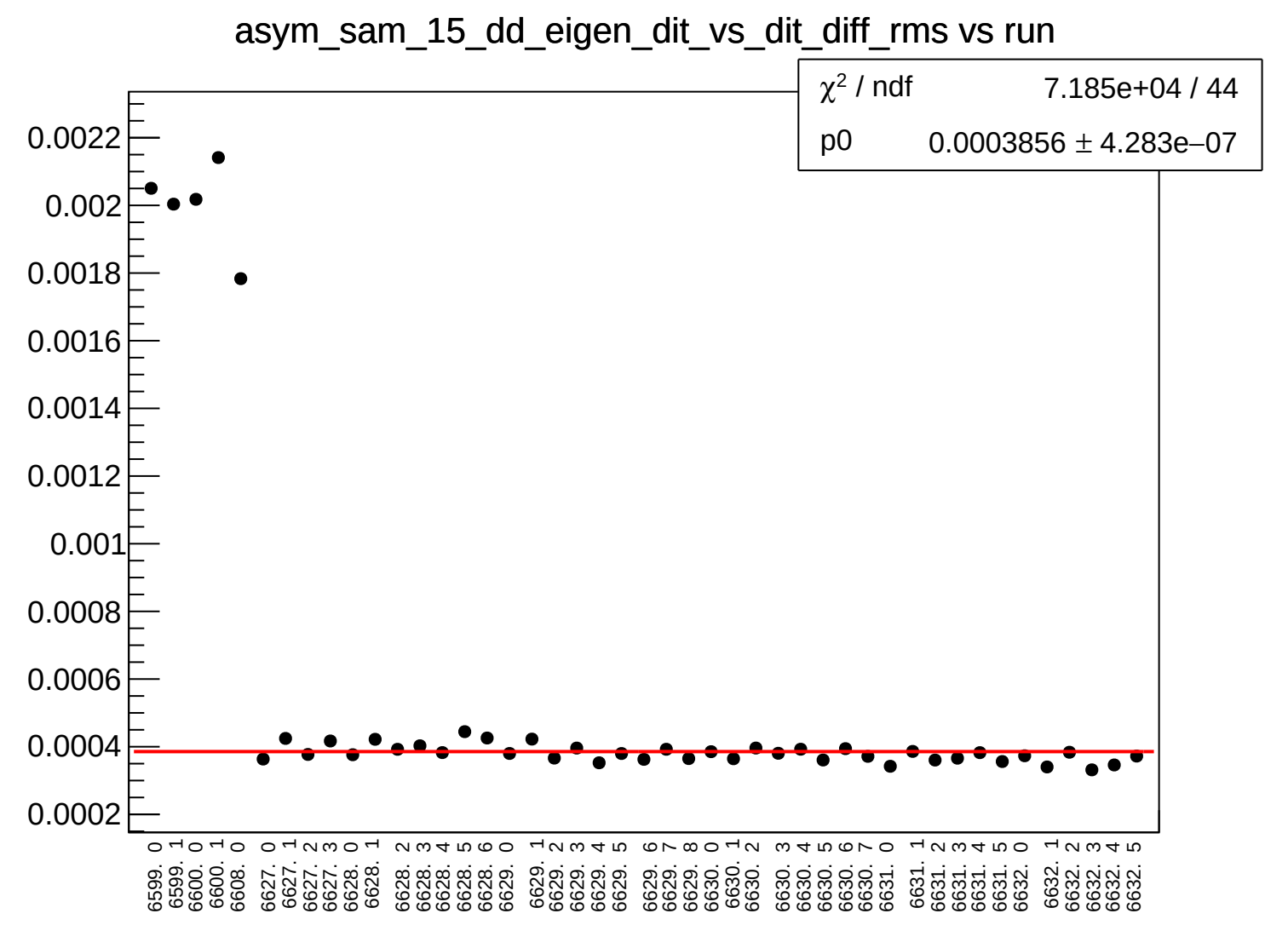

pull1D
Entries 45
Mean −0.001878
Std Dev 0.9218

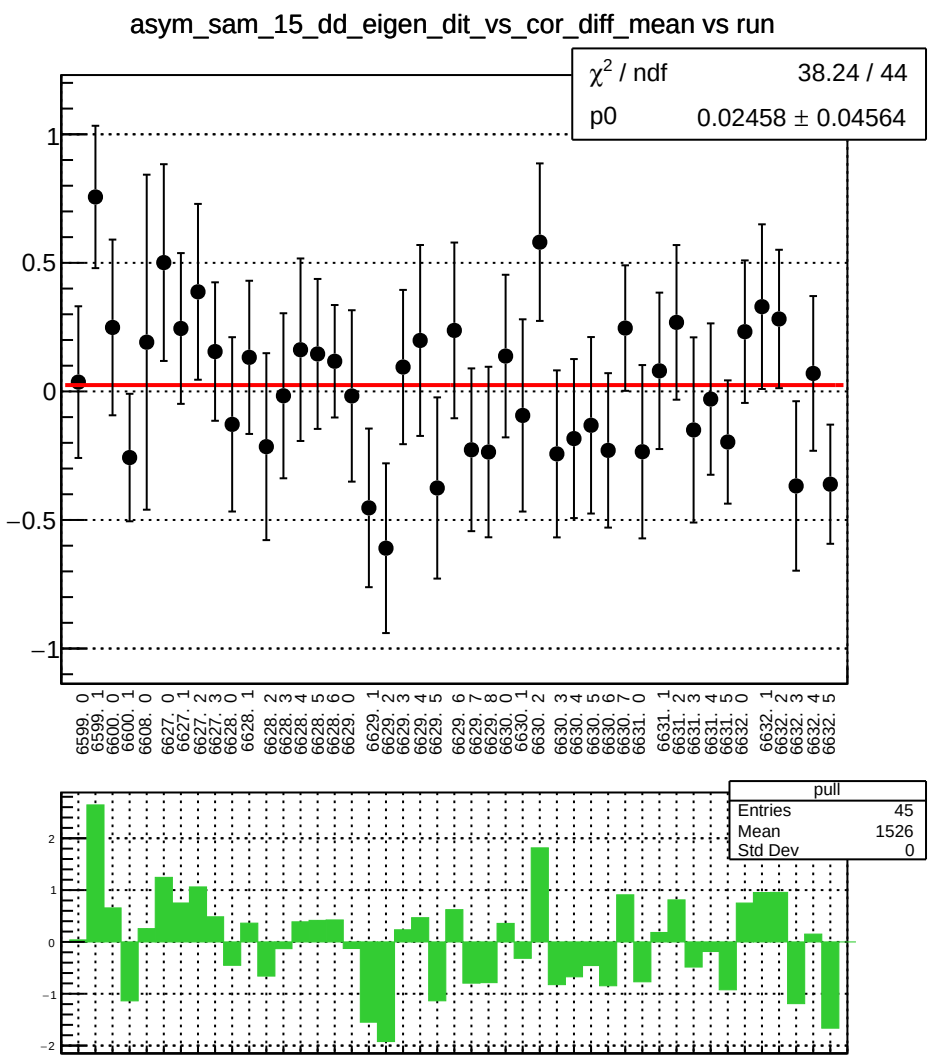

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7293 / 44
p0 30.19 ± 0.03227
50
45
40
35
30
25
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

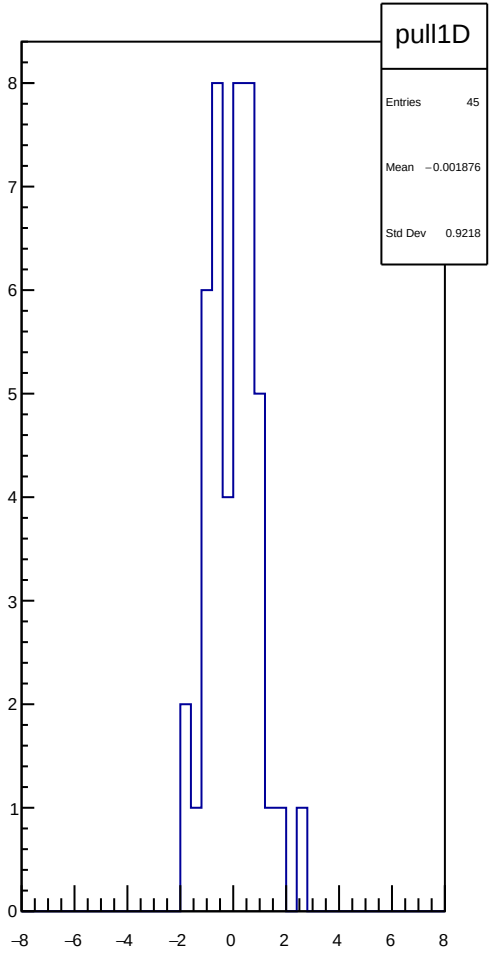

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.24 / 44
p0 0.02459 ± 0.04564
pull
Entries 45
Mean 1525
Std Dev 0
pull1D
Entries 45
Mean −0.001878
Std Dev 0.9218

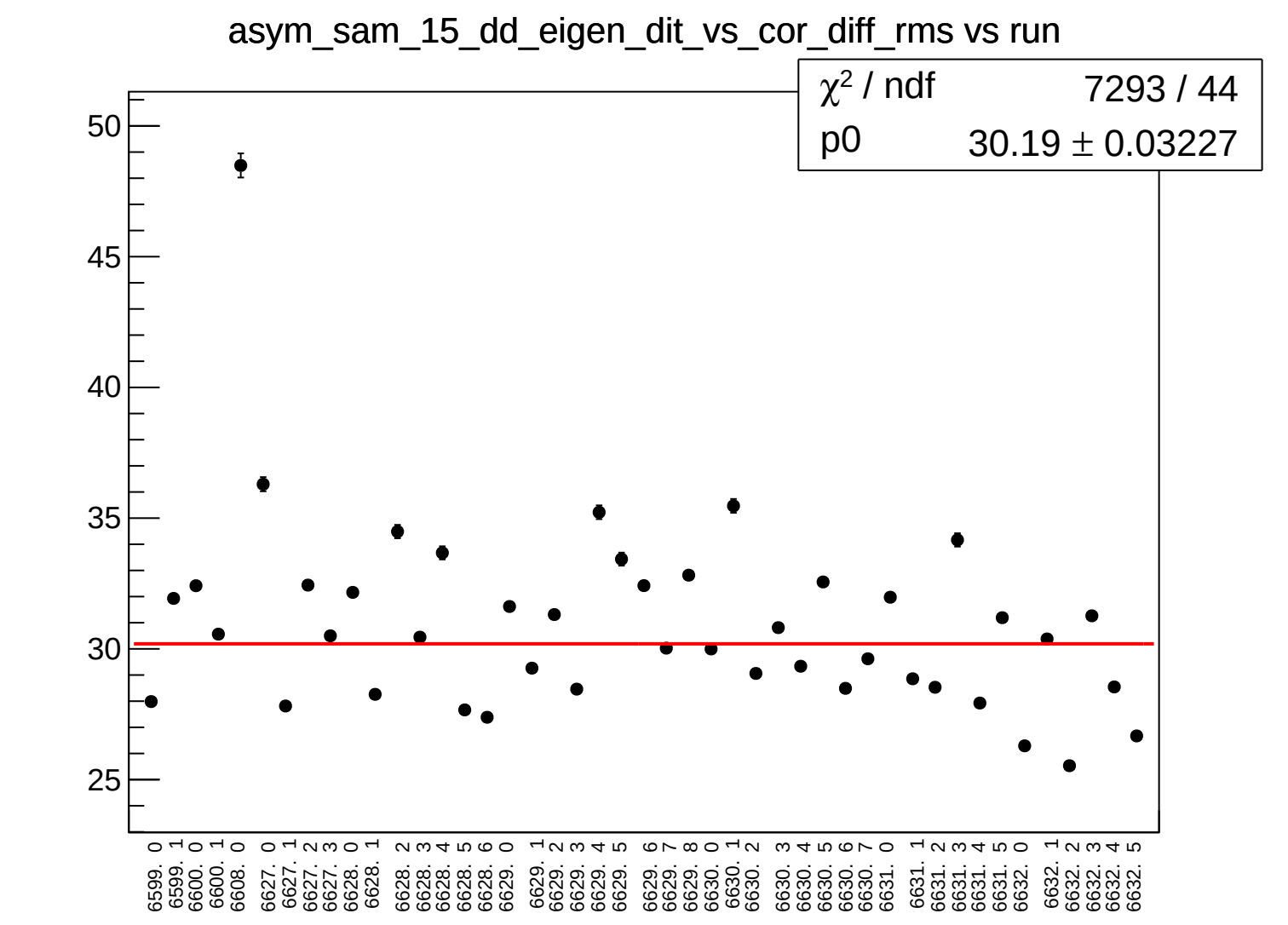

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7293 / 44
p0 30.19 ± 0.03227
50
45
40
35
30
25
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

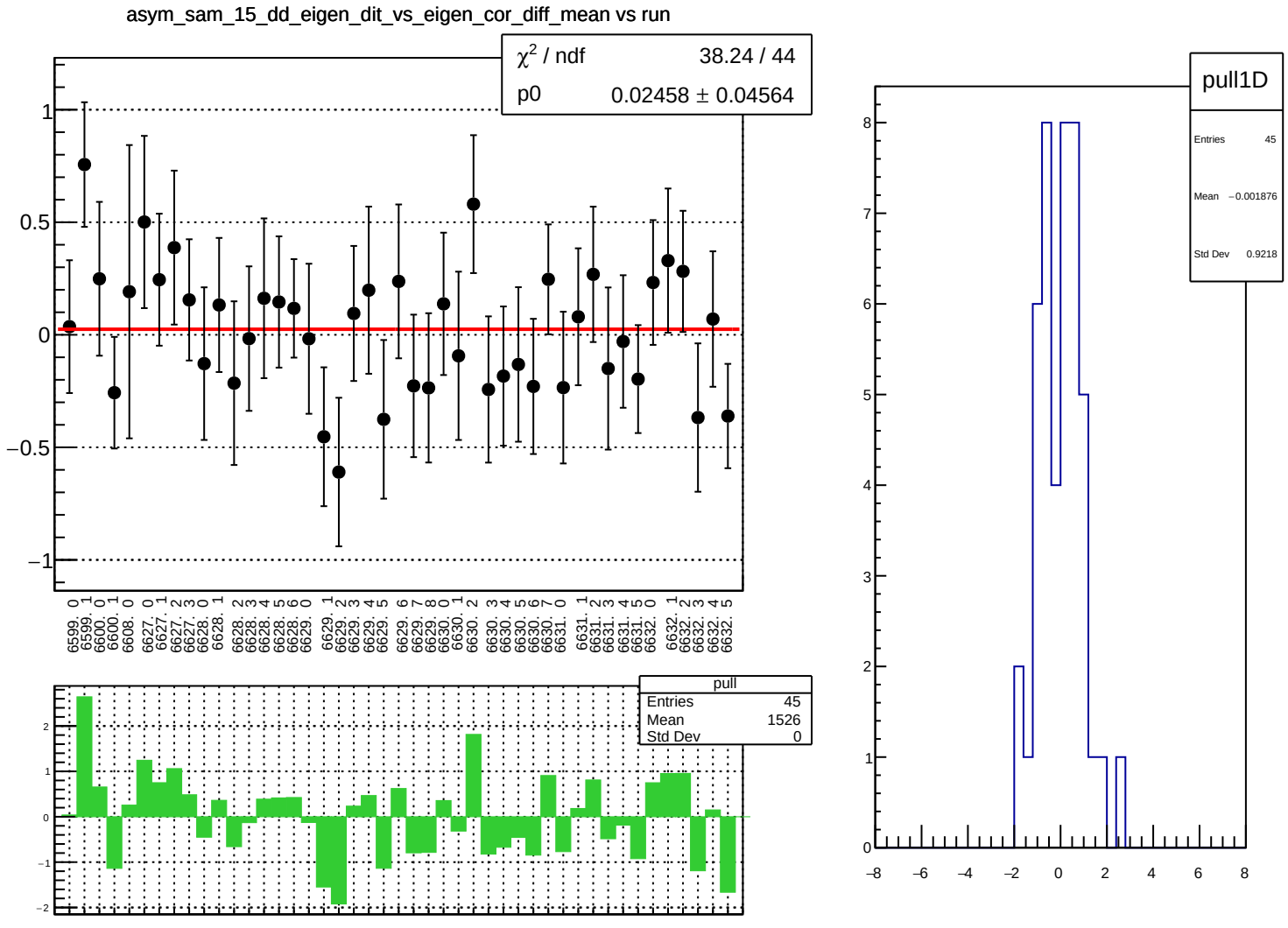

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 62.91 / 44
p0 1.274e−08 ± 6.057e−07
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −4819
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.0006421
Std Dev 1.182
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

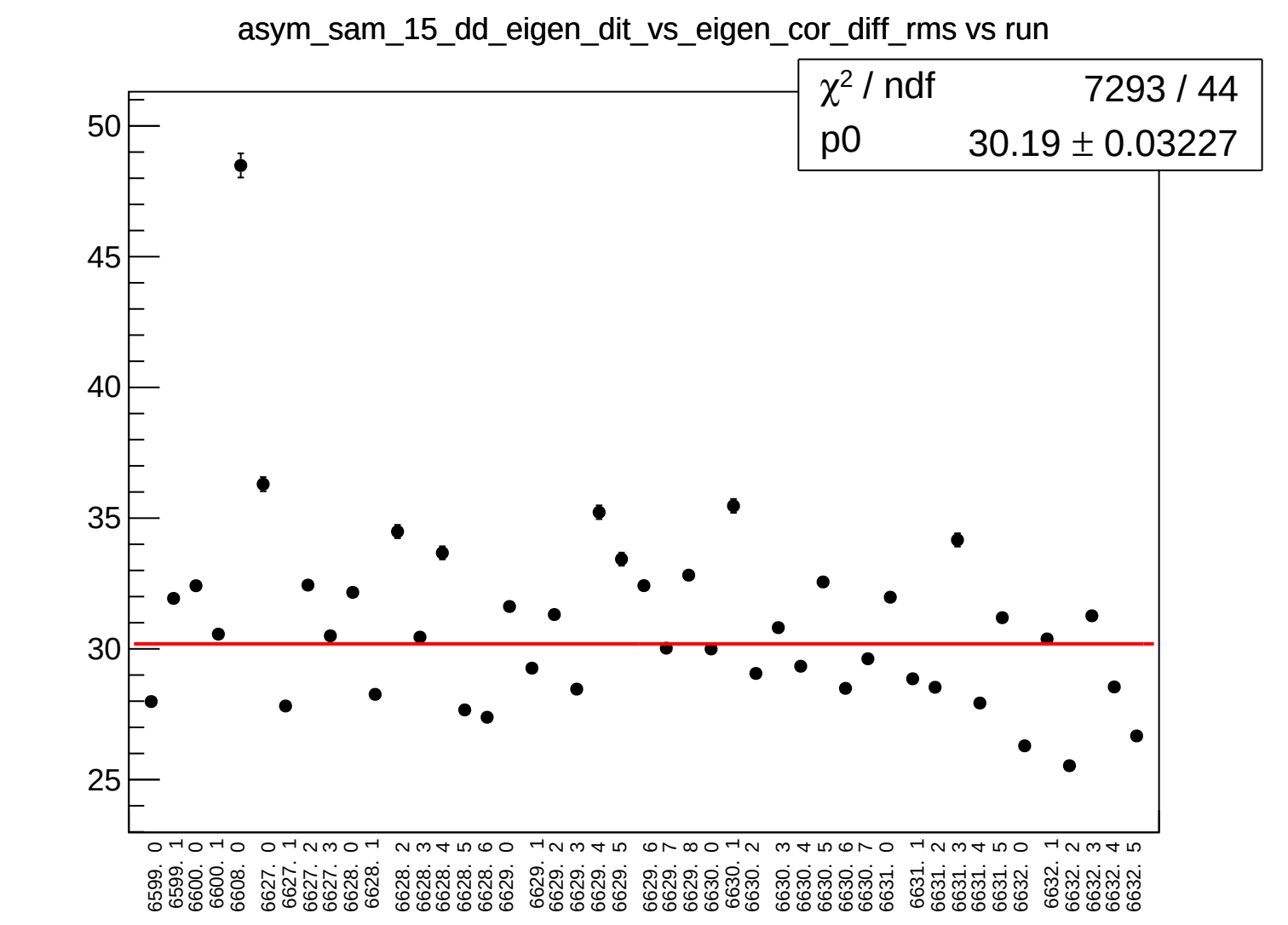

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.185e+04 / 44
p0 0.0003856 ± 4.283e−07
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

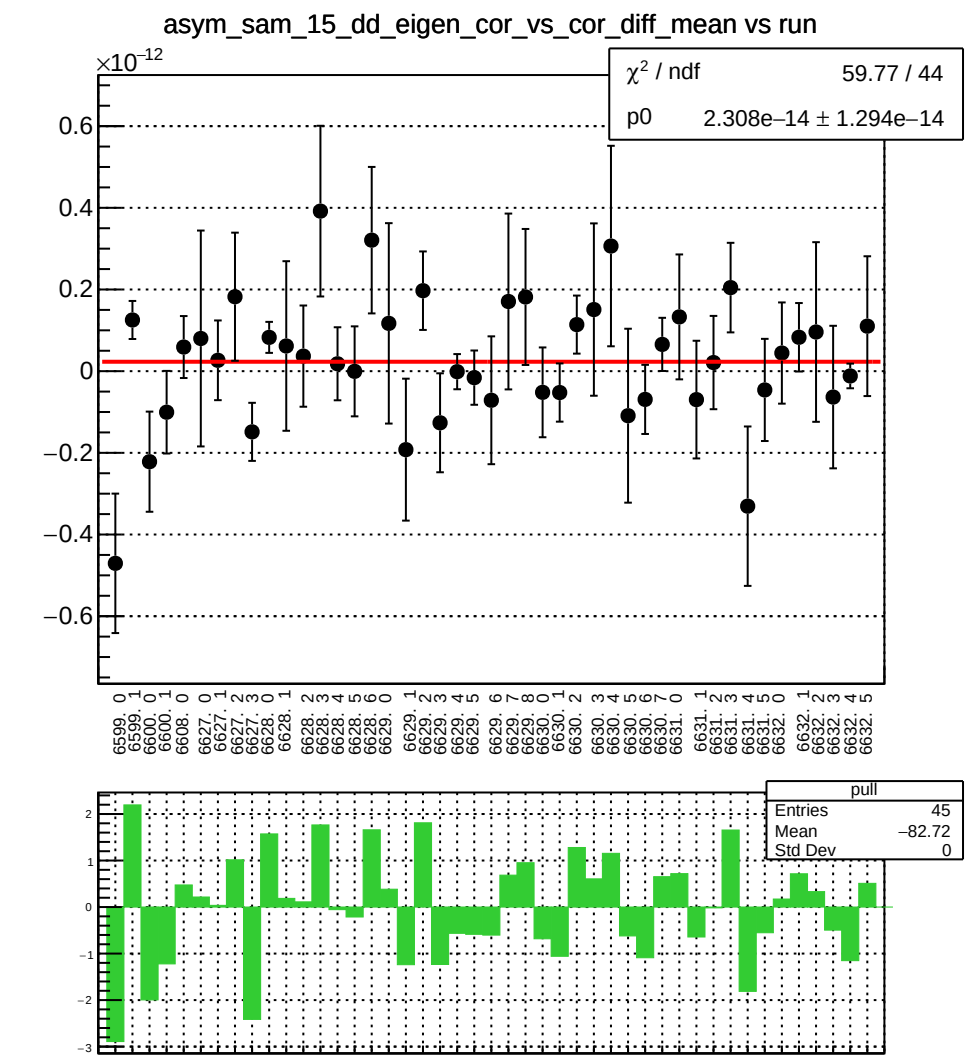

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 38.24 / 44
p0 0.02458 ± 0.04564
pull
Entries 45
Mean 1526
Std Dev 0

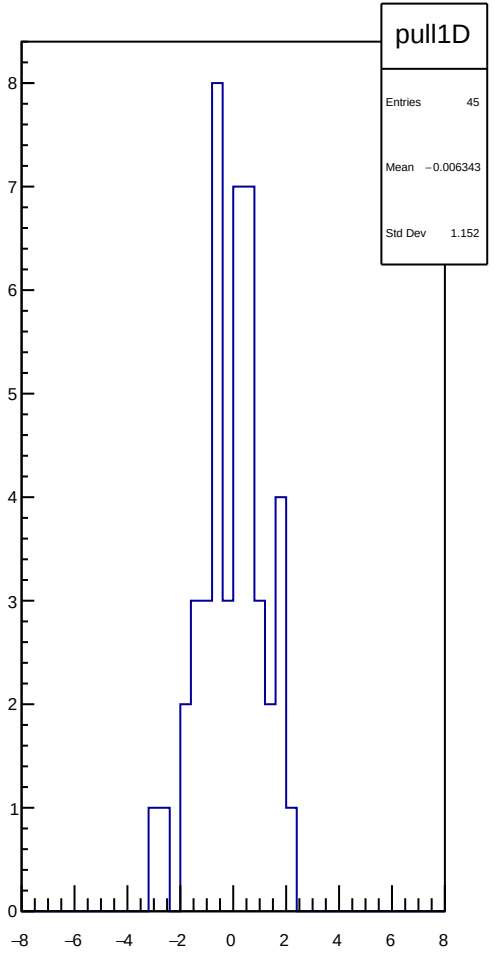

pull1D
Entries 45
Mean −0.001876
Std Dev 0.9218

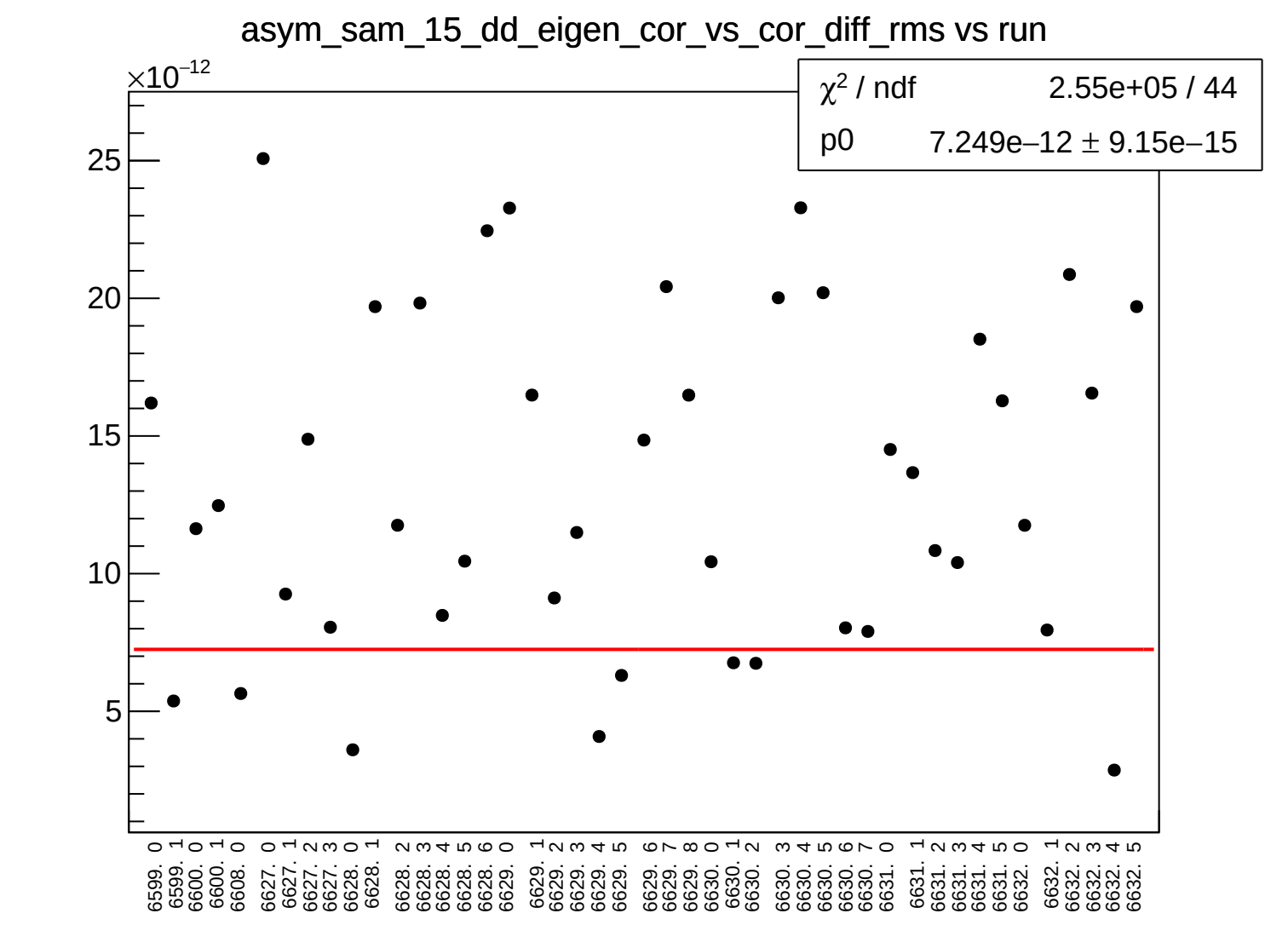

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7293 / 44
p0 30.19 ± 0.03227
50
45
40
35
30
25
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

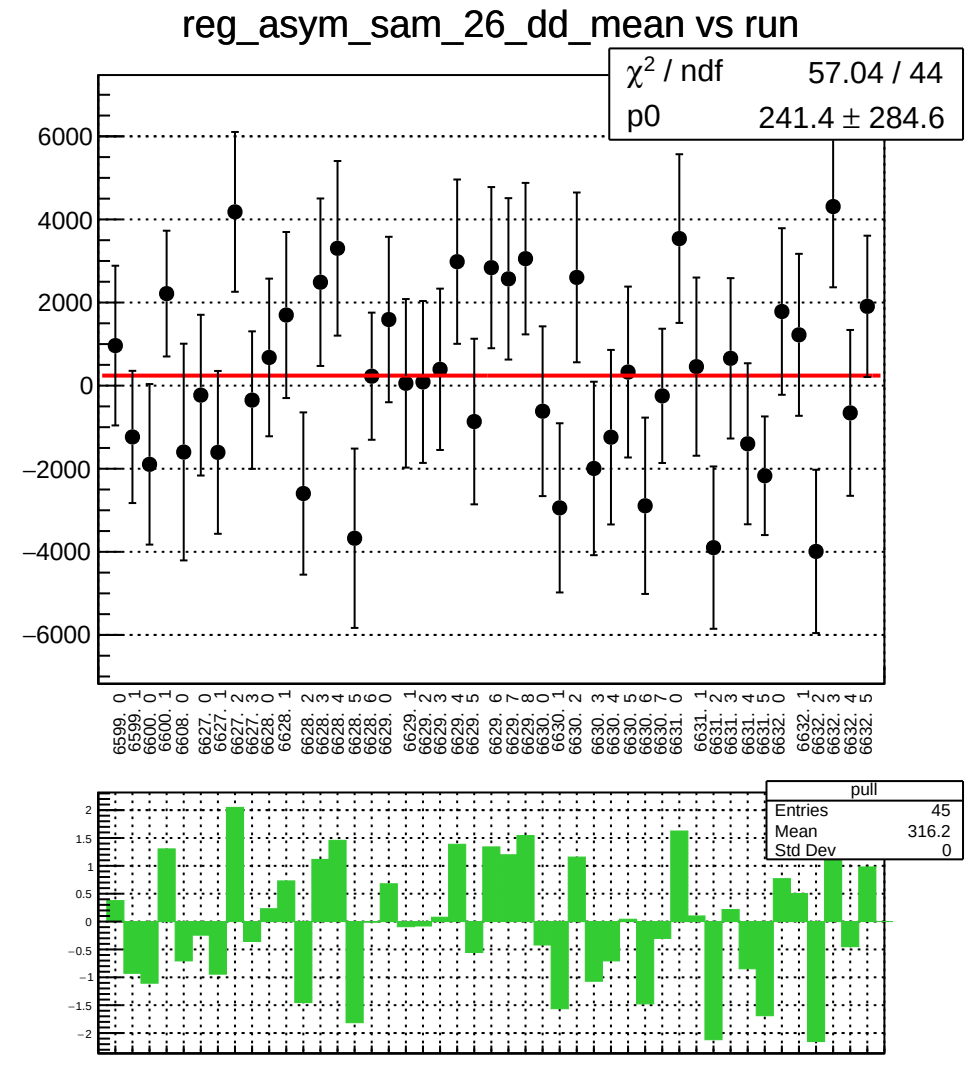

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.24 / 44
p0 0.02458 ± 0.04564
pull
Entries 45
Mean 1526
Std Dev 0
pull1D
Entries 45
Mean −0.001876
Std Dev 0.9218

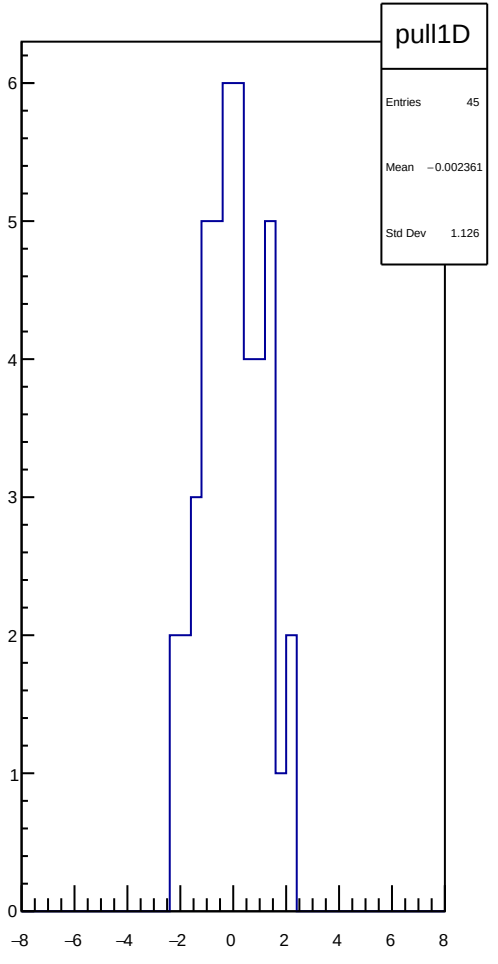

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7293 / 44
p0 30.19 ± 0.03227
50
45
40
35
30
25
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

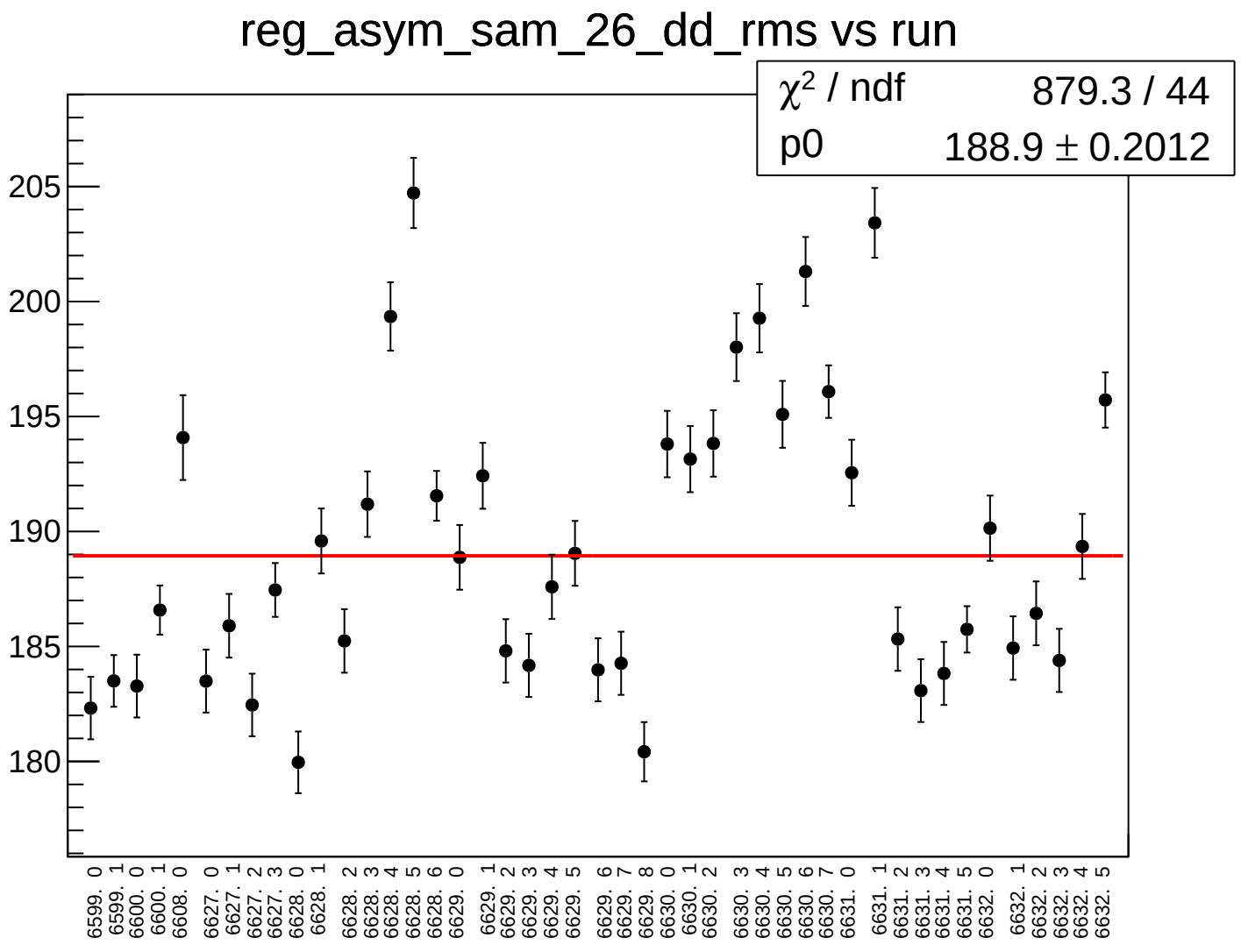

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 59.77 / 44
p0 2.308e−14 ± 1.294e−14
pull
Entries 45
Mean −82.72
Std Dev 0

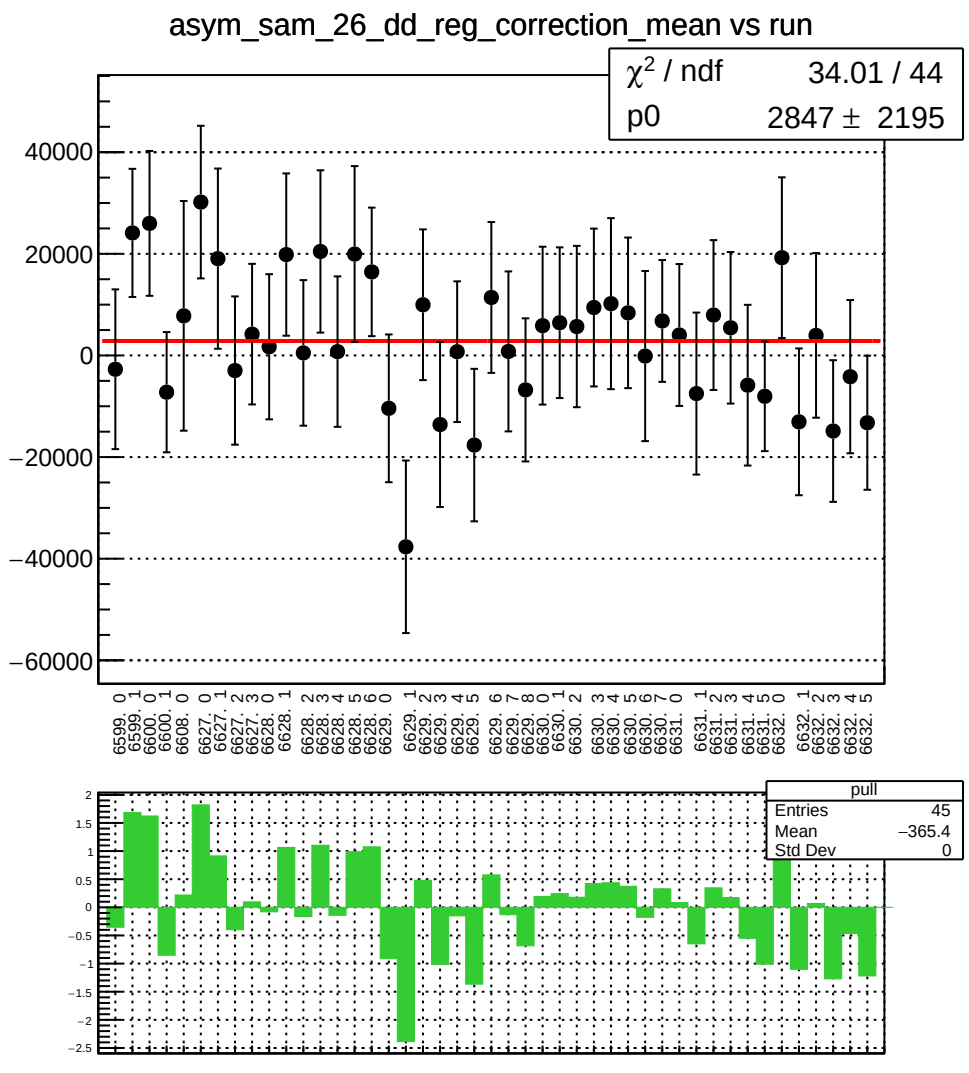

pull1D
Entries 45
Mean −0.006343
Std Dev 1.152


asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.55e+05 / 44
p0 7.249e−12 ± 9.15e−15
25
20
15
10
5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


reg_asym_sam_26_dd_mean vs run
χ² / ndf 57.04 / 44
p0 241.4 ± 284.6
6000
4000
2000
0
−2000
−4000
−6000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 316.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.002361
Std Dev 1.126
6
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 879.3 / 44
p0 188.9 ± 0.2012
205
200
195
190
185
180
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_26_dd_reg_correction_mean vs run
χ² / ndf 34.01 / 44
p0 2847 ± 2195
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
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6627. 3
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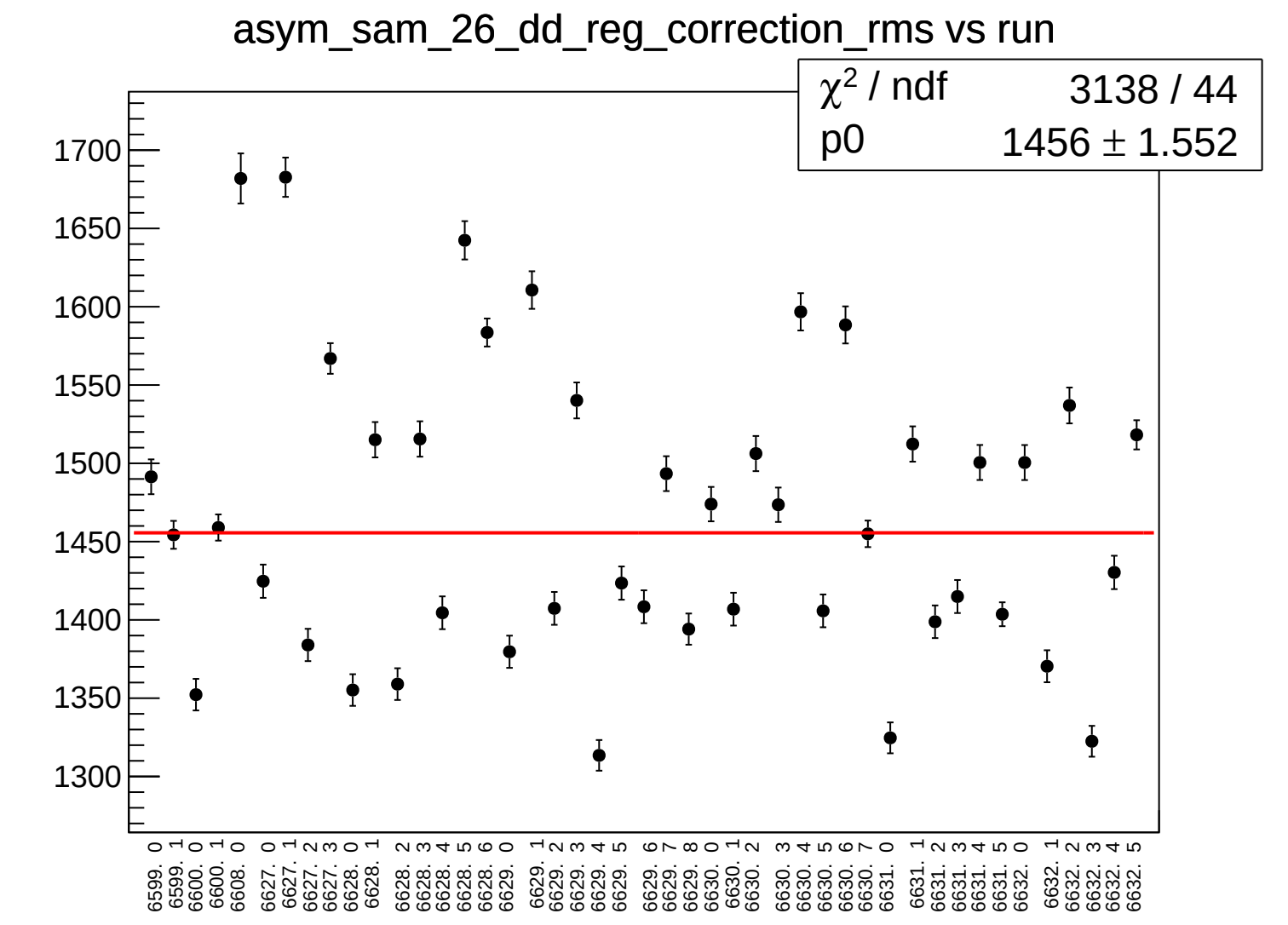
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −365.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.0103
Std Dev 0.8693
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 3138 / 44
p0 1456 ± 1.552
1700
1650
1600
1550
1500
1450
1400
1350
1300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
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6629. 8
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6630. 5
6630. 6
6630. 7
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6631. 1
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6632. 4
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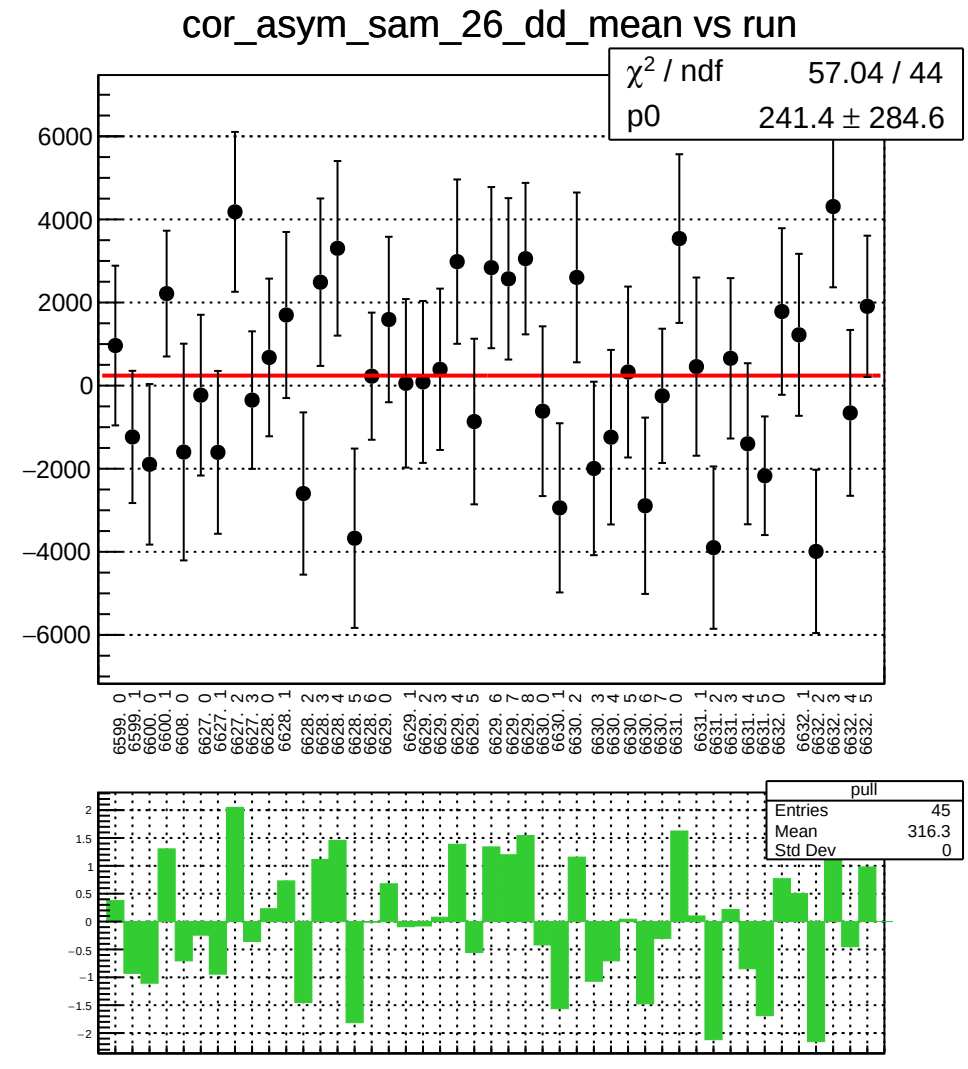
cor_asym_sam_26_dd_mean vs run
χ² / ndf 57.04 / 44
p0 241.4 ± 284.6
6000
4000
2000
0
−2000
−4000
−6000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 2
6627. 3
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6628. 2
6628. 3
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6629. 2
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6629. 7
6629. 8
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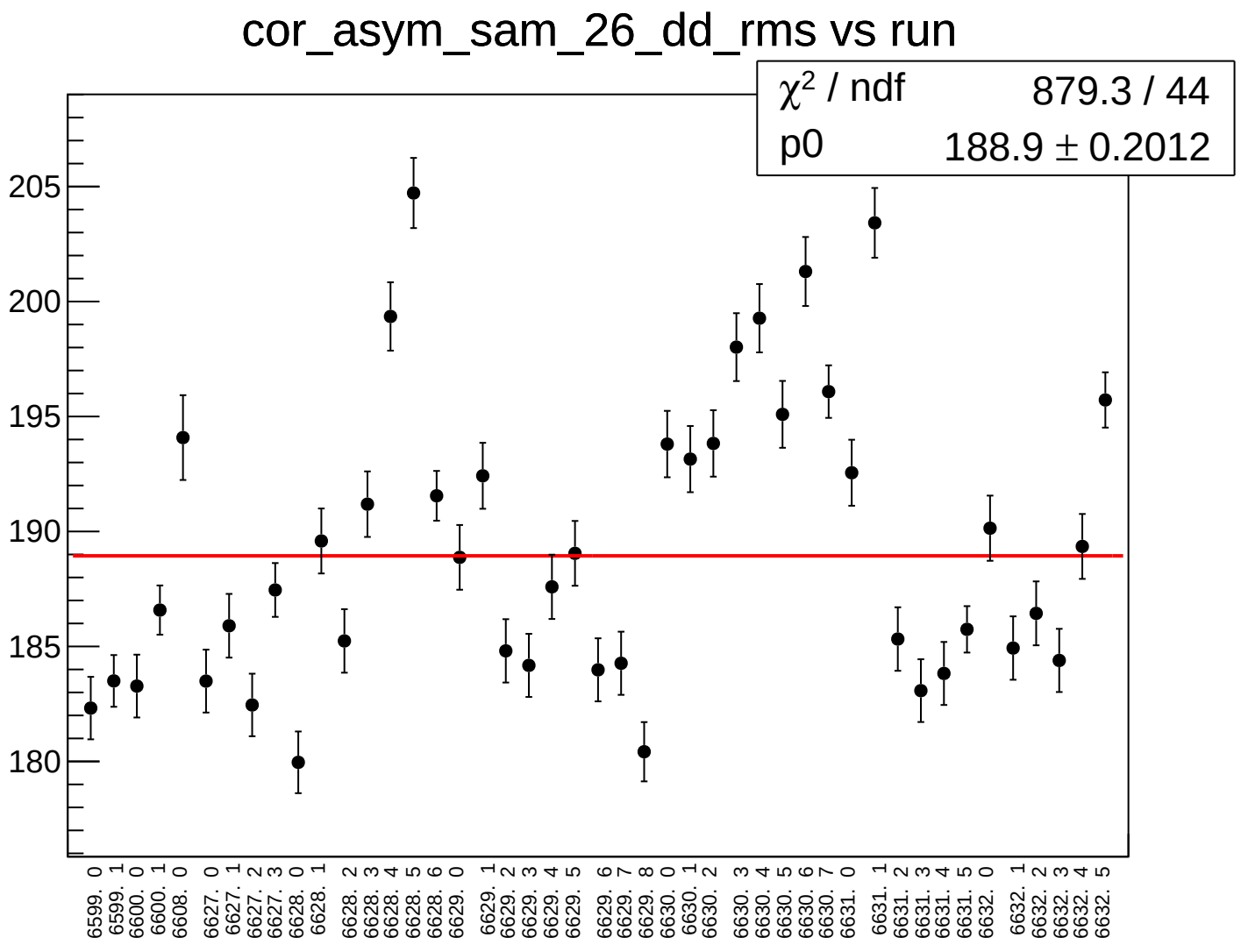
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 316.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.002361
Std Dev 1.126
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_26_dd_rms vs run
χ² / ndf 879.3 / 44
p0 188.9 ± 0.2012
205
200
195
190
185
180
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
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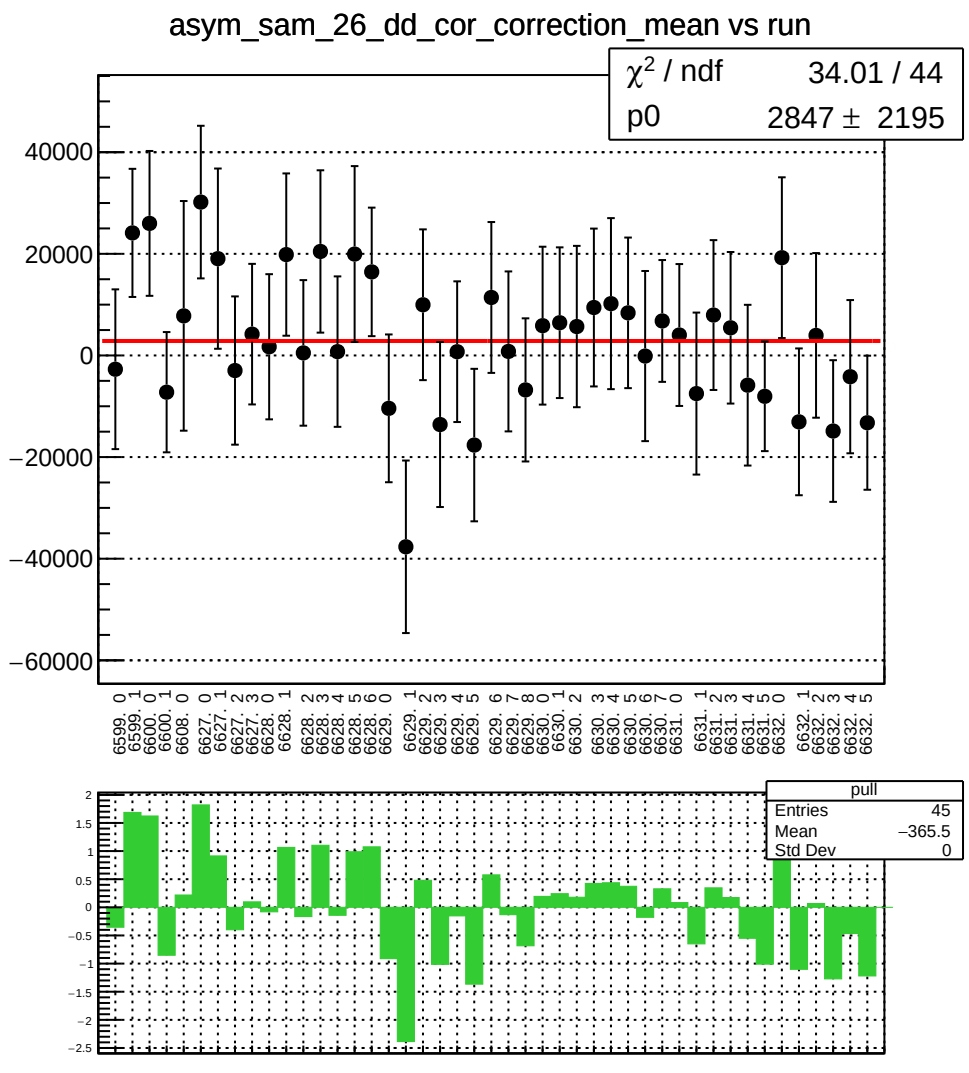
6632. 4
6632. 5


asym_sam_26_dd_cor_correction_mean vs run
χ² / ndf 34.01 / 44
p0 2847 ± 2195
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6630. 7
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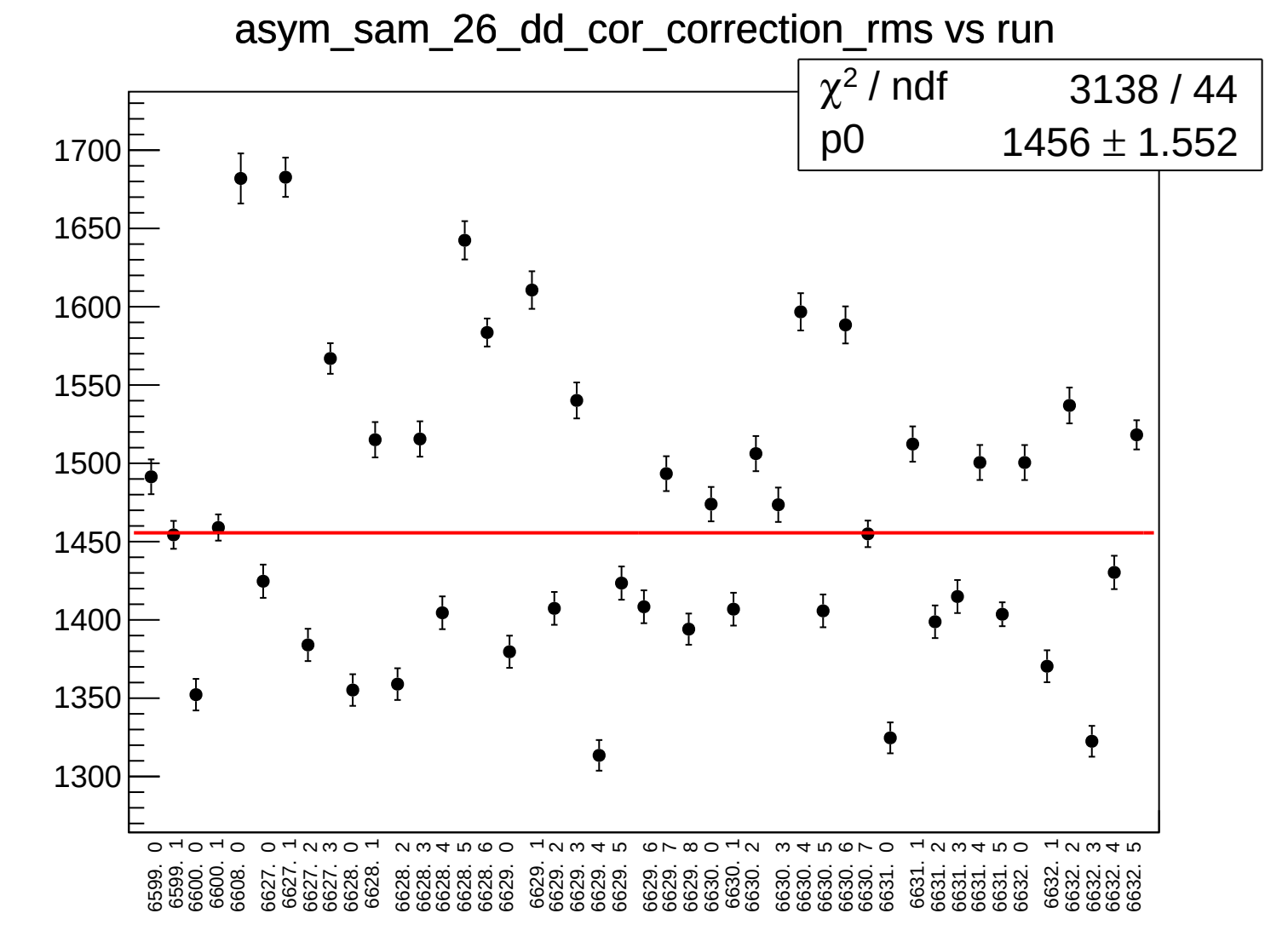
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −365.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.0103
Std Dev 0.8693
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 3138 / 44
p0 1456 ± 1.552
1700
1650
1600
1550
1500
1450
1400
1350
1300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 2
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6628. 0
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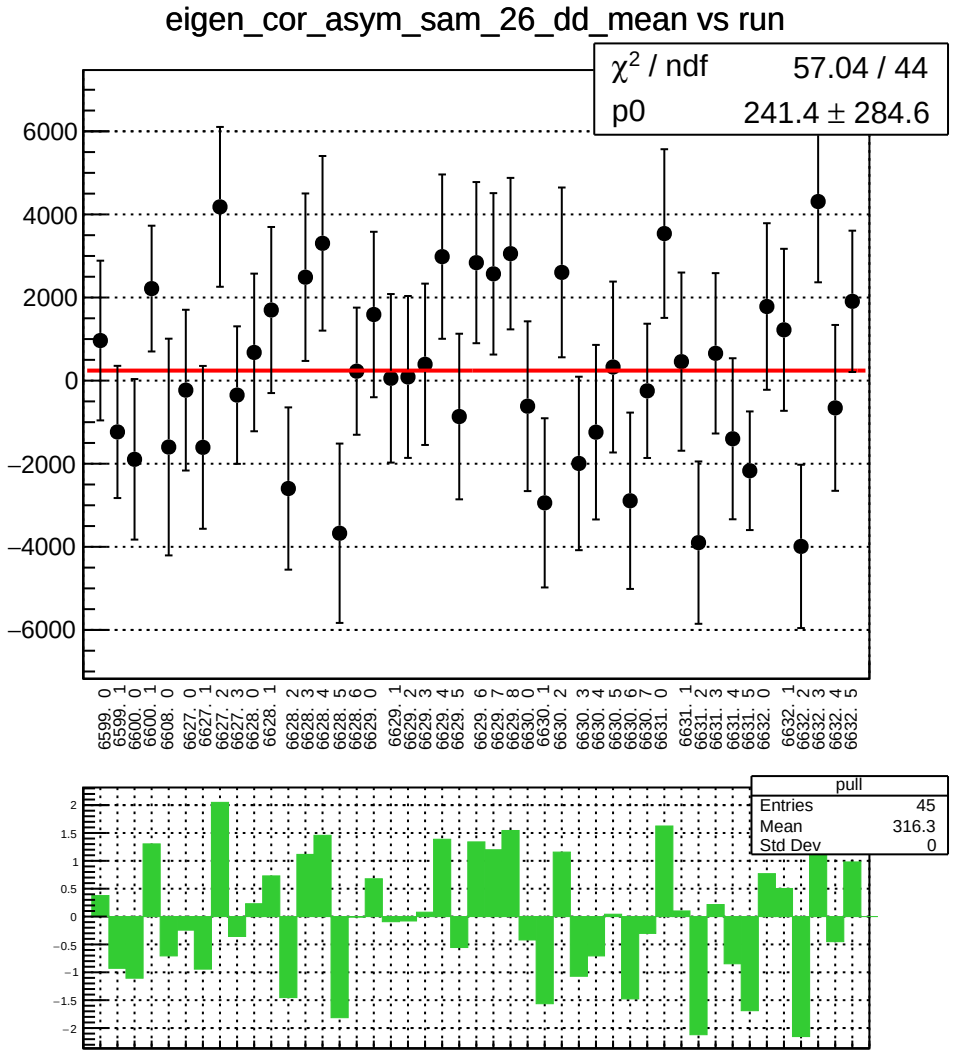
6632. 4
6632. 5


eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 57.04 / 44
p0 241.4 ± 284.6
6000
4000
2000
0
−2000
−4000
−6000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6630. 1
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6630. 7
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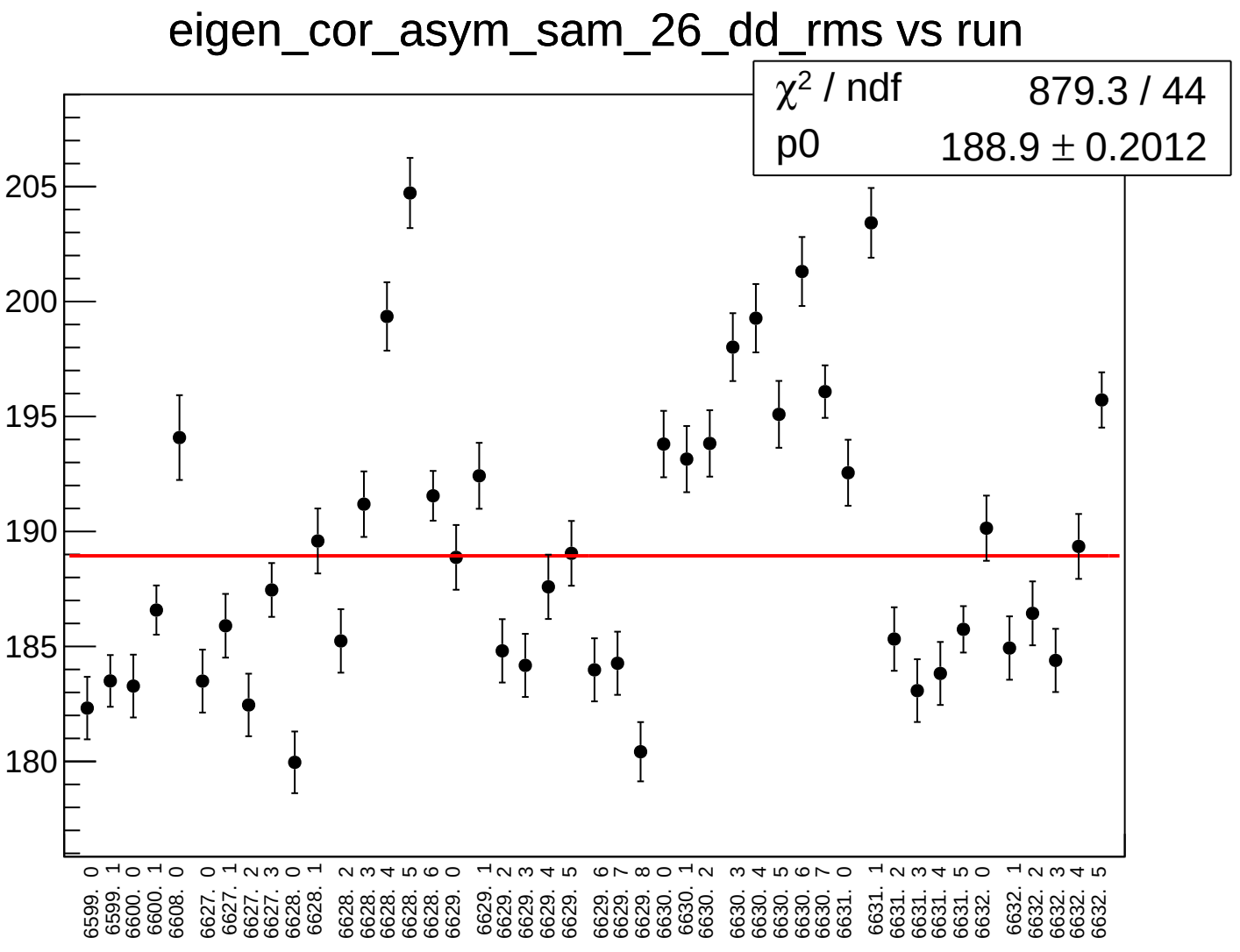
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 316.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.002361
Std Dev 1.126
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 879.3 / 44
p0 188.9 ± 0.2012
205
200
195
190
185
180
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
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6628. 2
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6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
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6631. 1
6631. 2
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6632. 0
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6632. 2
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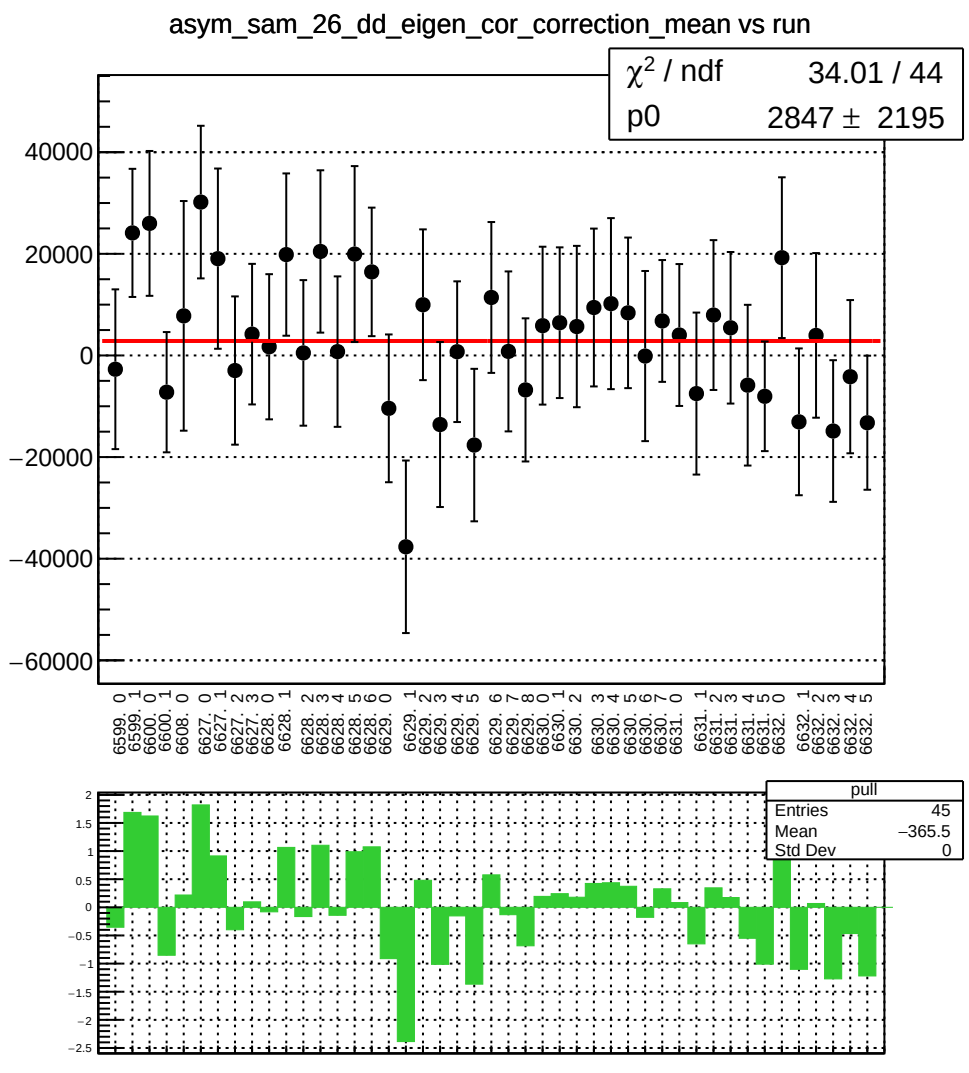
6632. 4
6632. 5


asym_sam_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 34.01 / 44
p0 2847 ± 2195
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6630. 7
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −365.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.0103
Std Dev 0.8693
10
8
6
4
2
0
−8
−6
−4
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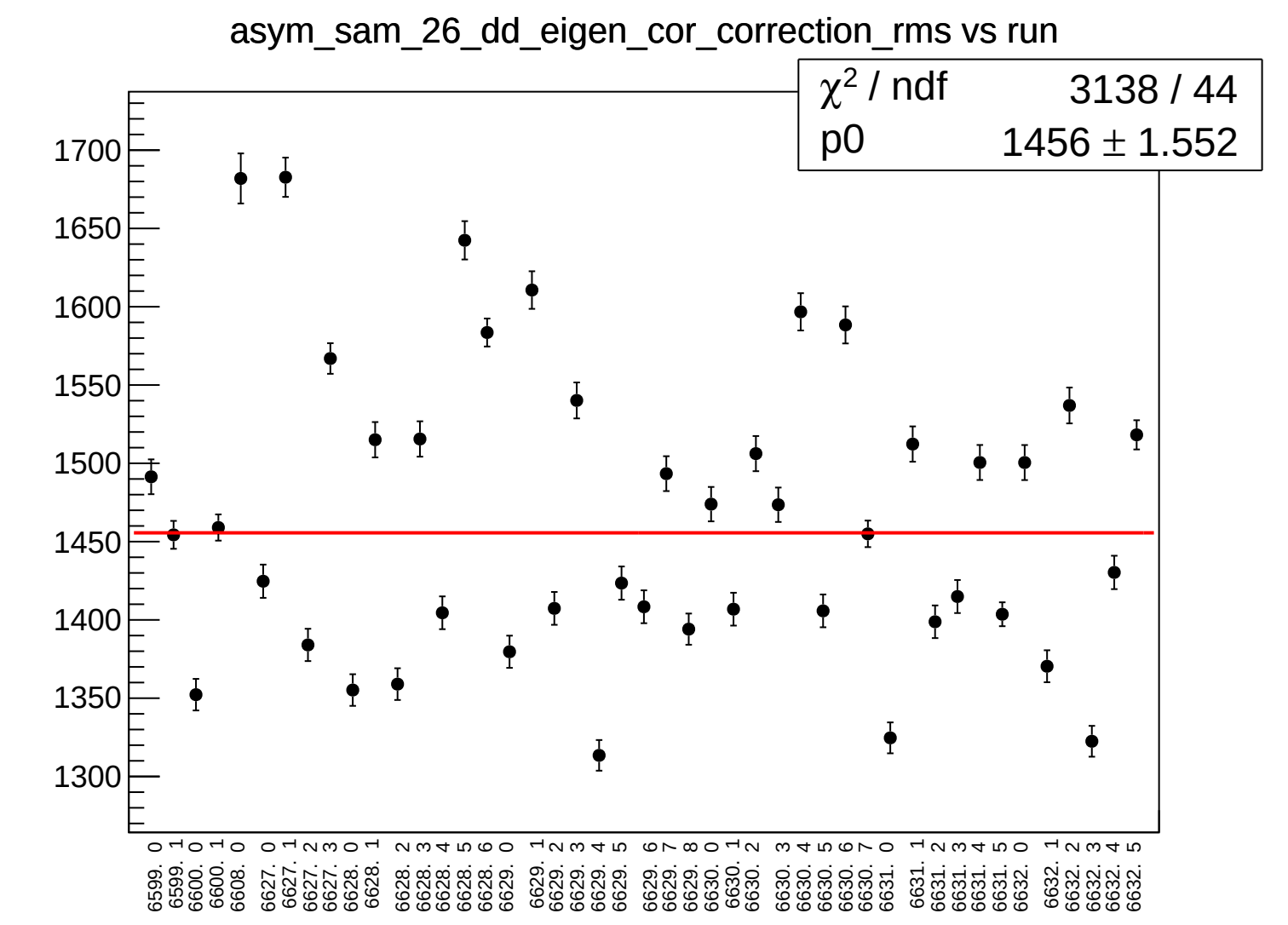
6
8


asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 3138 / 44
p0 1456 ± 1.552
1700
1650
1600
1550
1500
1450
1400
1350
1300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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6629. 1
6629. 2
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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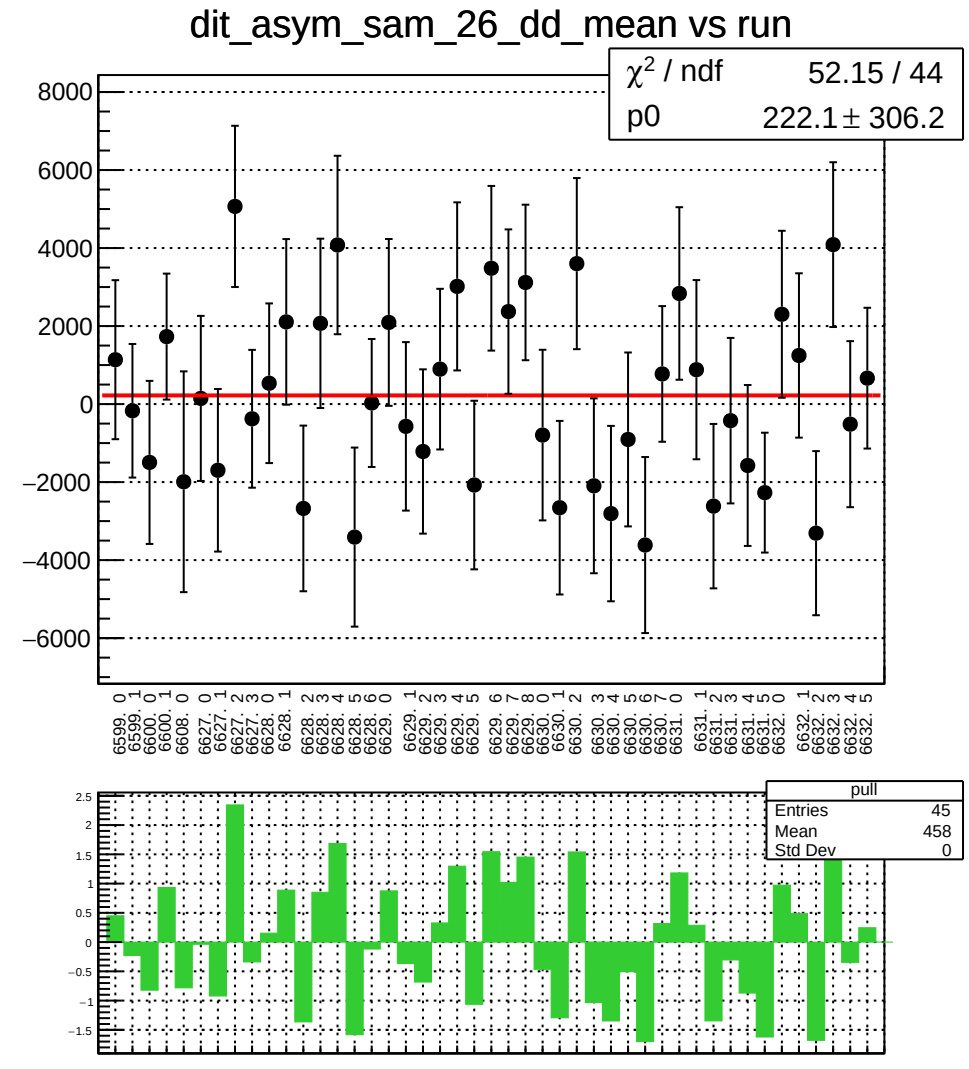
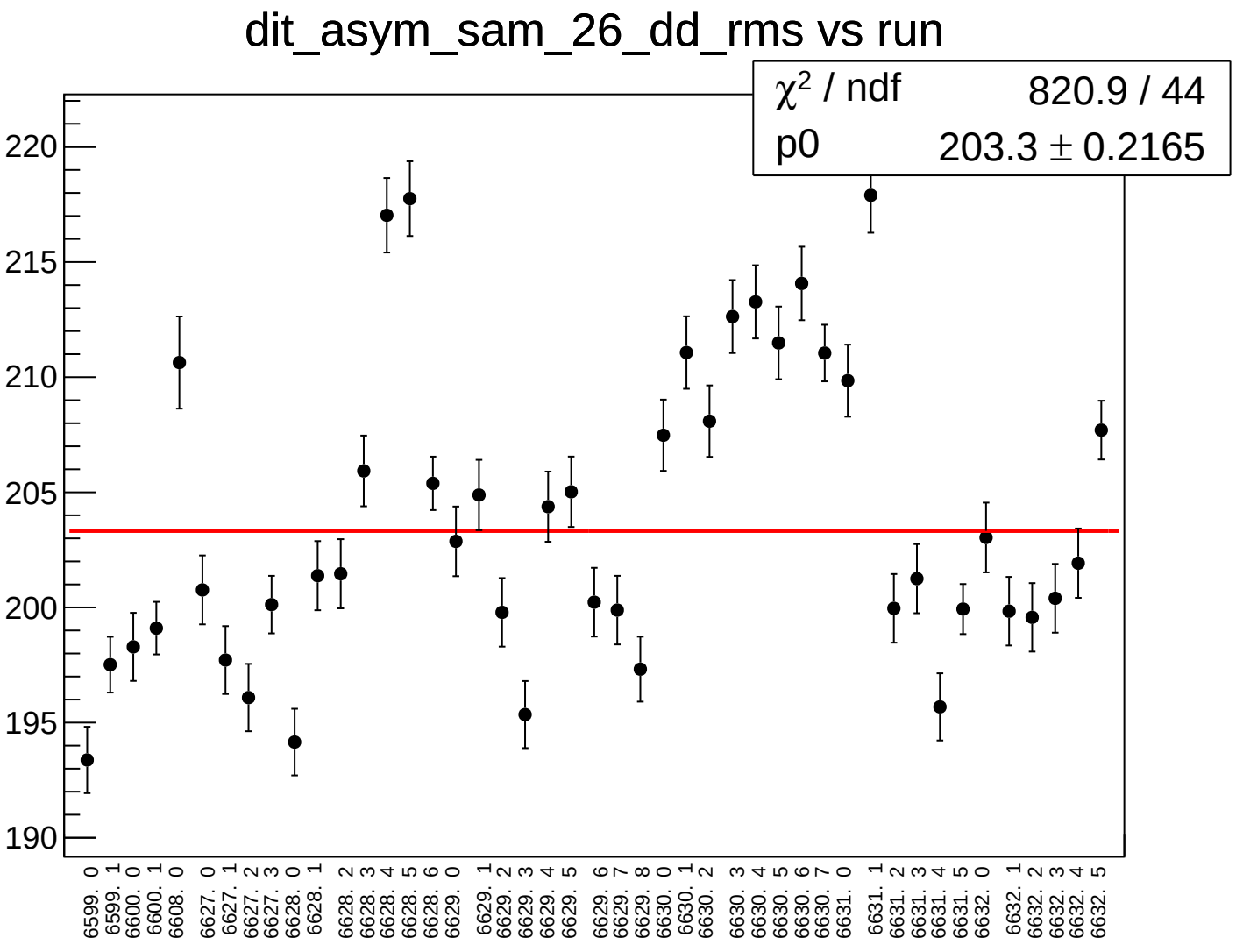
6632. 5


dit_asym_sam_26_dd_mean vs run
χ² / ndf 52.15 / 44
p0 222.1 ± 306.2
8000
6000
4000
2000
0
−2000
−4000
−6000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 458
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.003132
Std Dev 1.077
7
6
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 820.9 / 44
p0 203.3 ± 0.2165
220
215
210
205
200
195
190
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 3
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6629. 2
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6629. 4
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6630. 1
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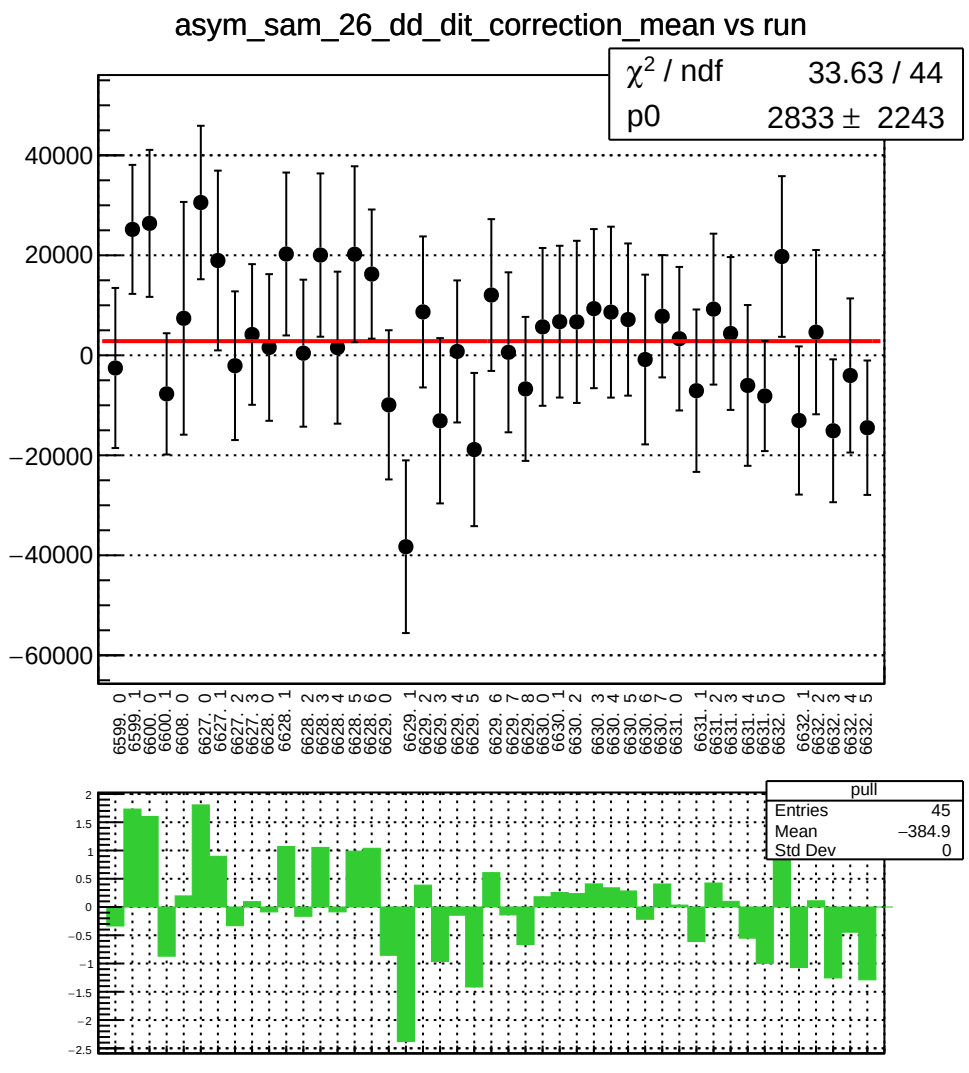
asym_sam_26_dd_dit_correction_mean vs run
χ² / ndf 33.63 / 44
p0 2833 ± 2243
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
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6628. 5
6628. 6
6629. 0
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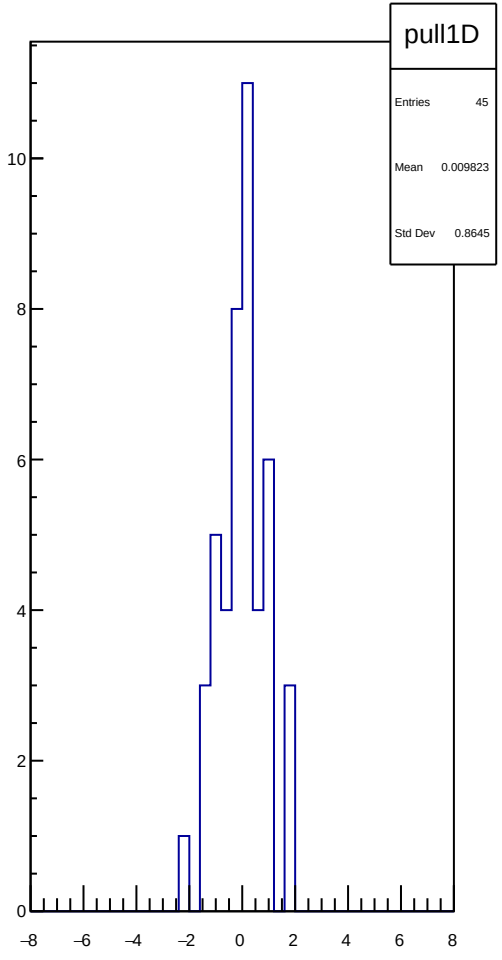
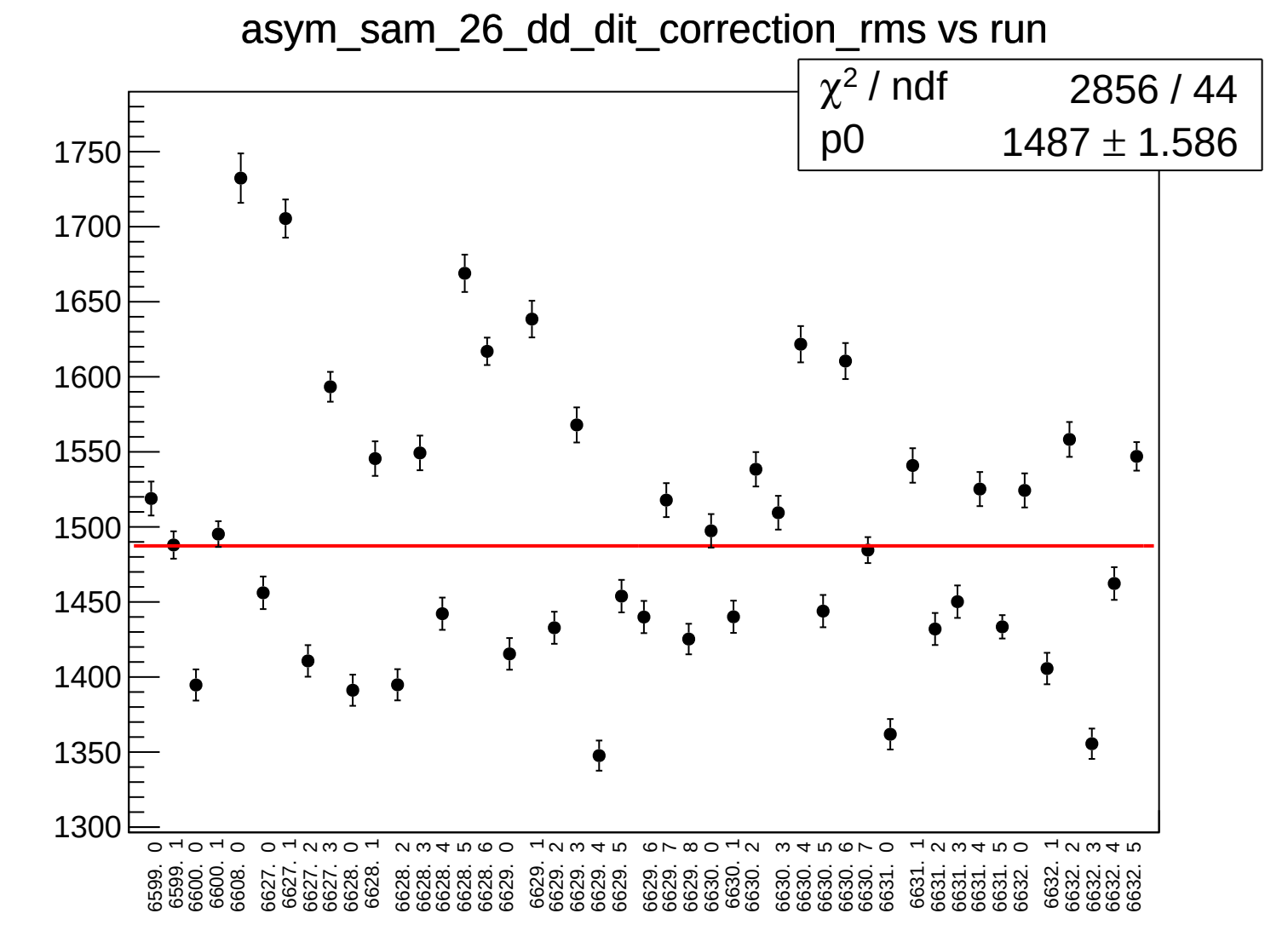
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −384.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.009823
Std Dev 0.8645
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 2856 / 44
p0 1487 ± 1.586
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1700
1650
1600
1550
1500
1450
1400
1350
1300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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6629. 0
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
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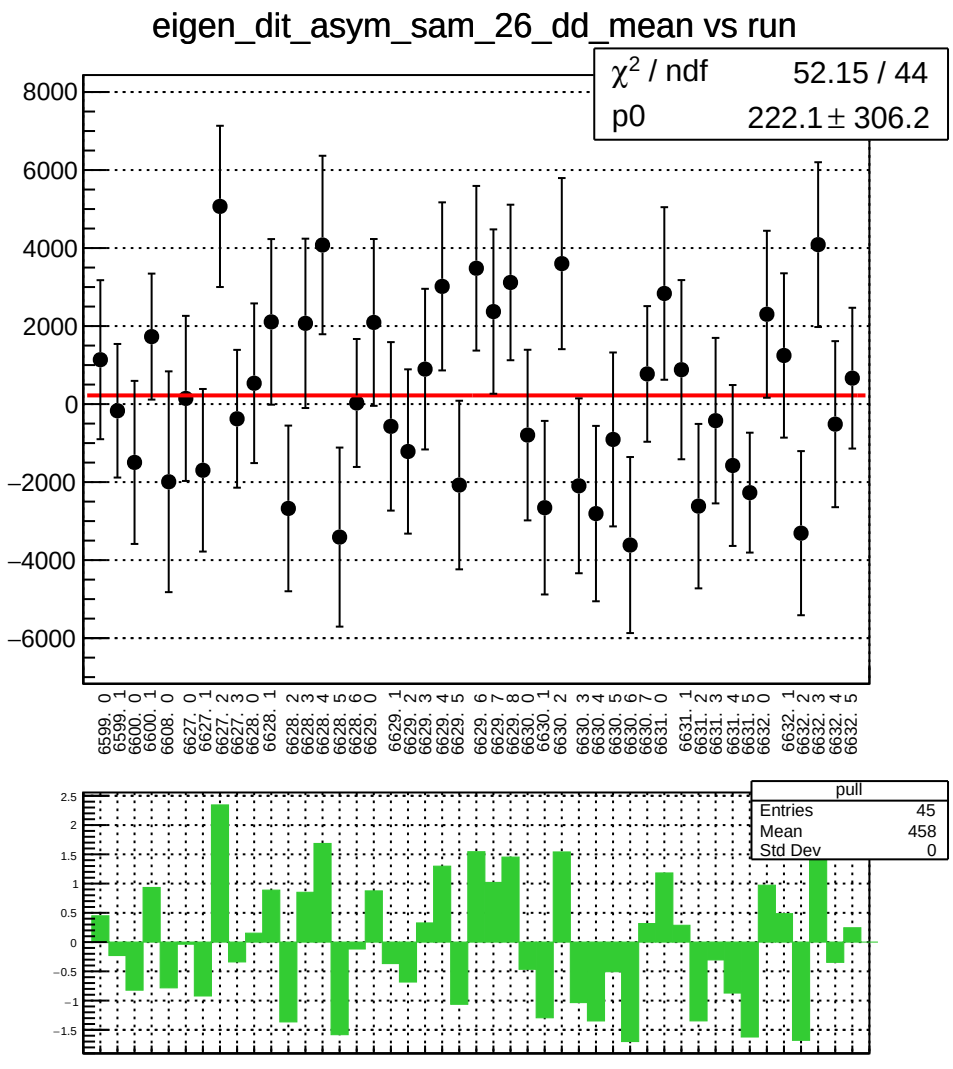
6632. 4
6632. 5


eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 52.15 / 44
p0 222.1 ± 306.2
8000
6000
4000
2000
0
−2000
−4000
−6000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
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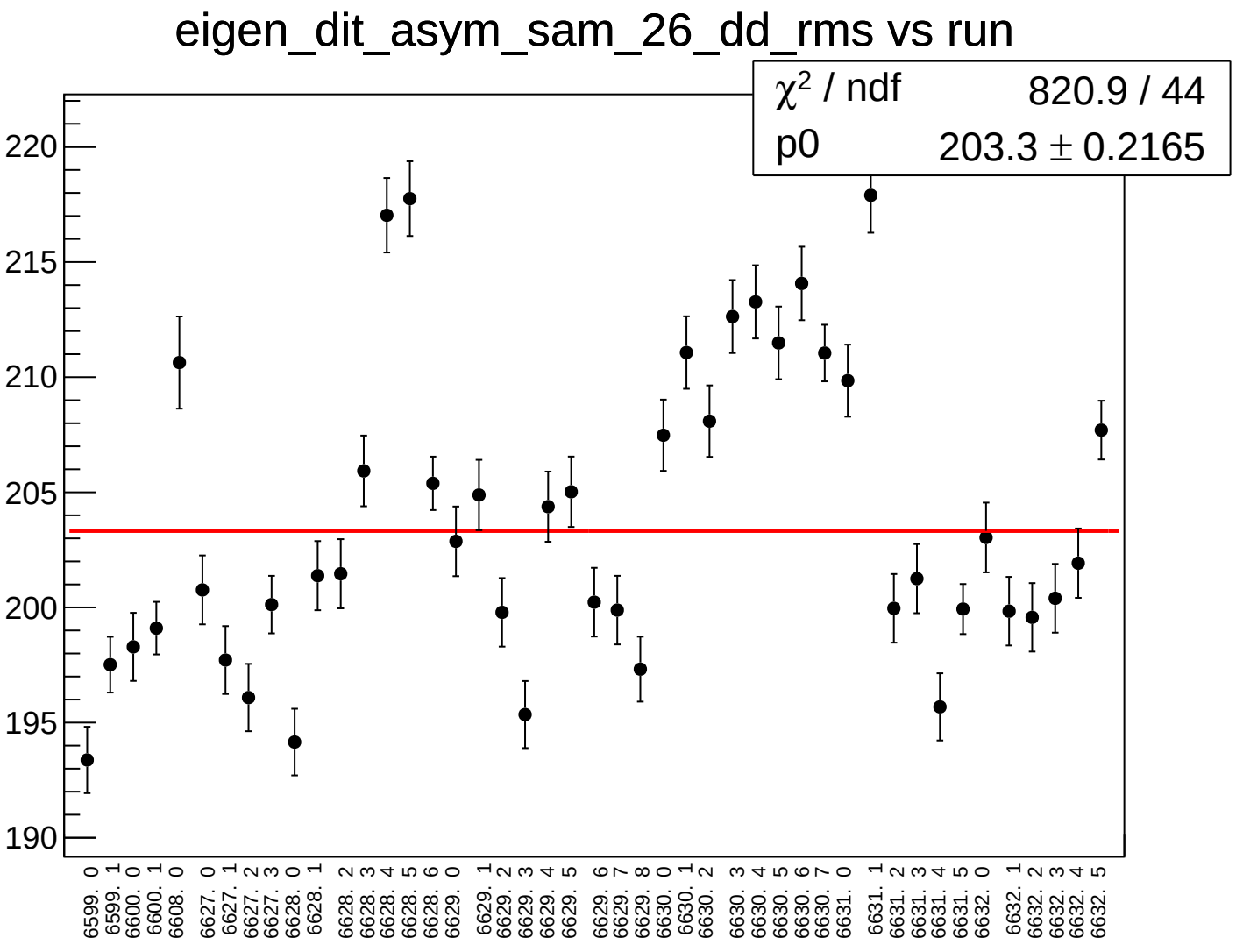
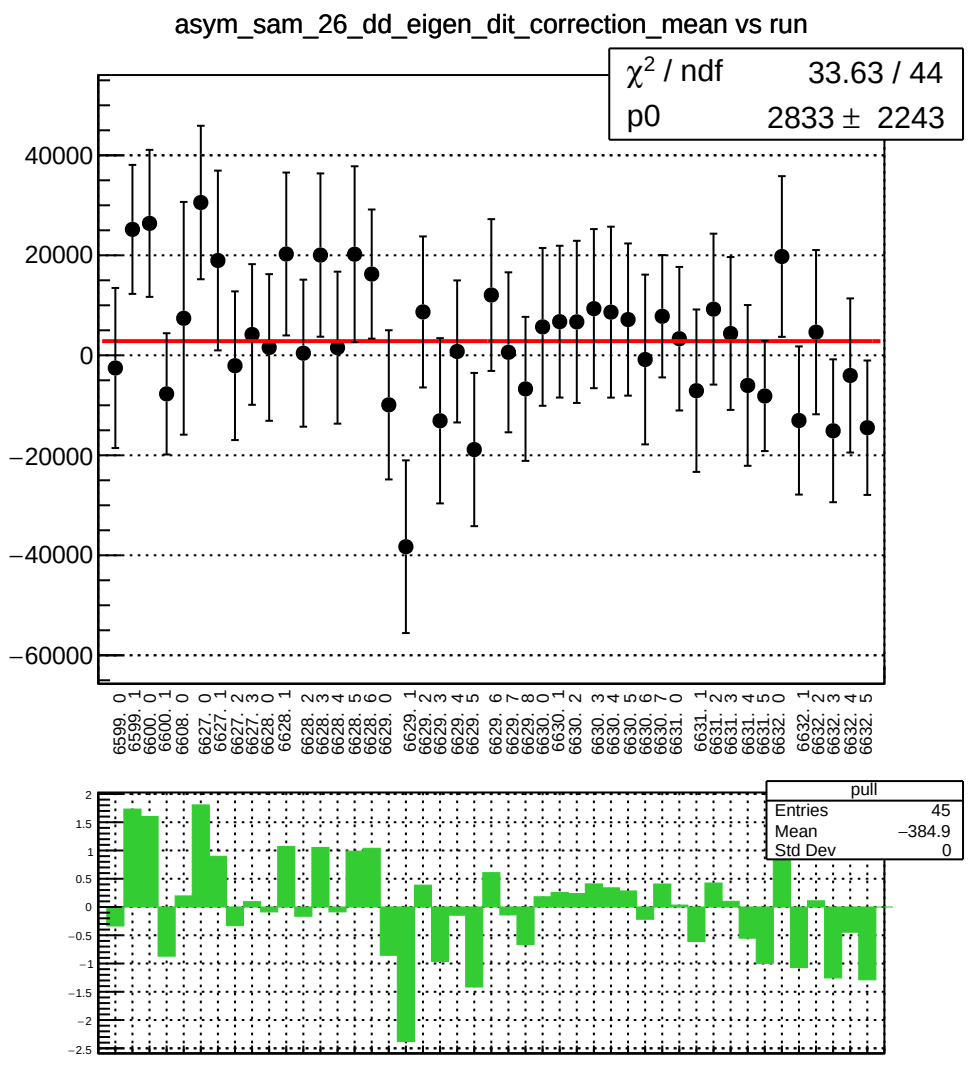
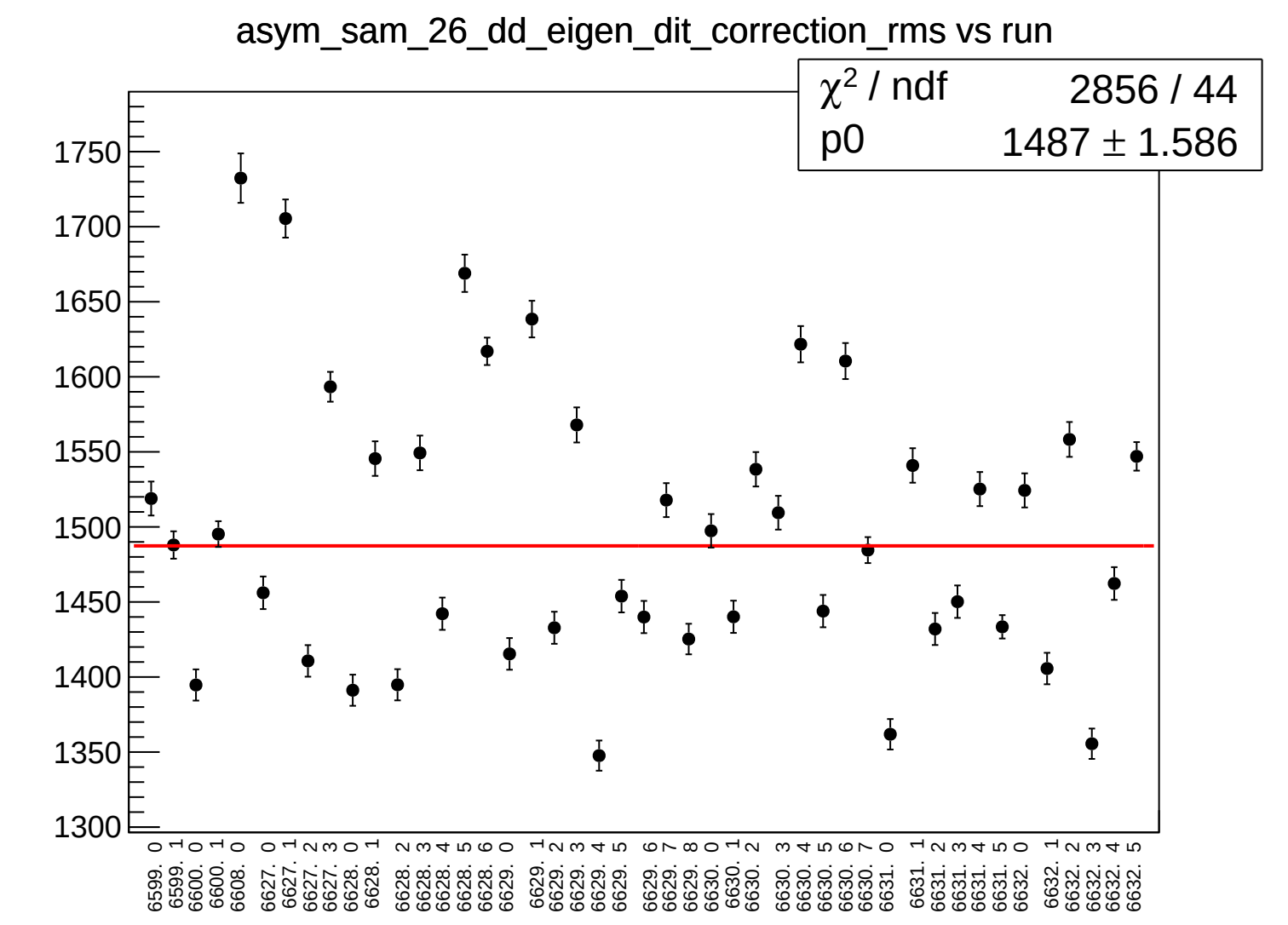
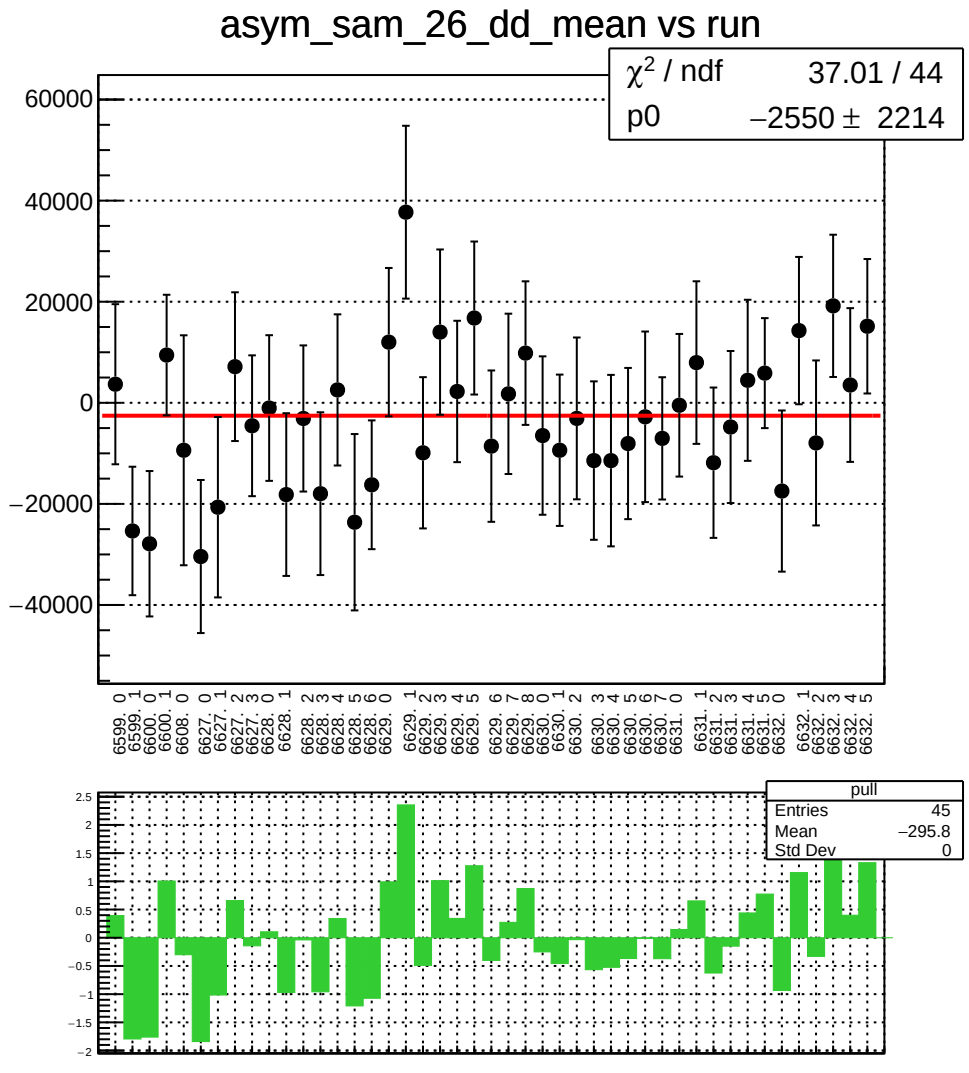
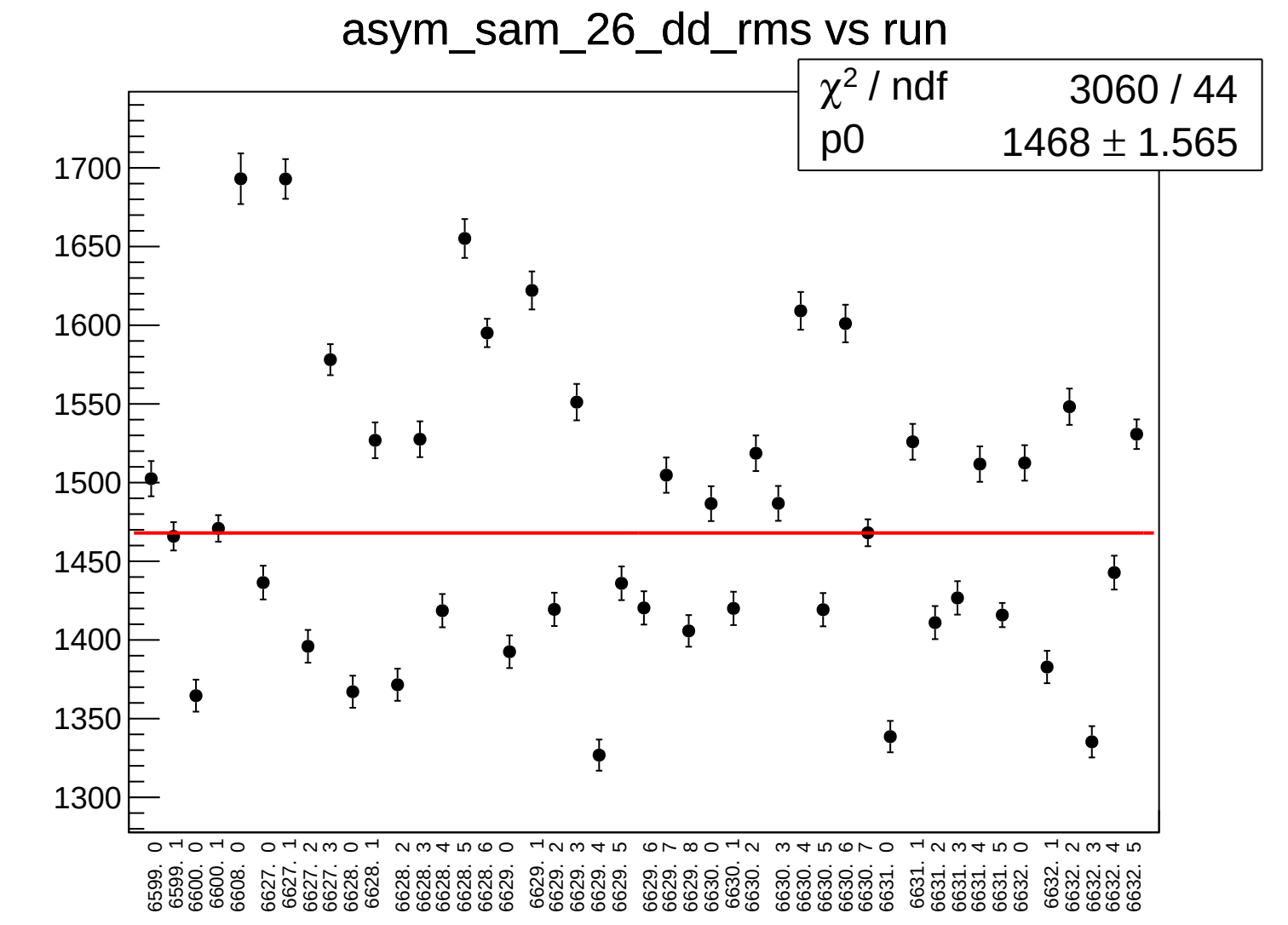
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 458
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.003132
Std Dev 1.077
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

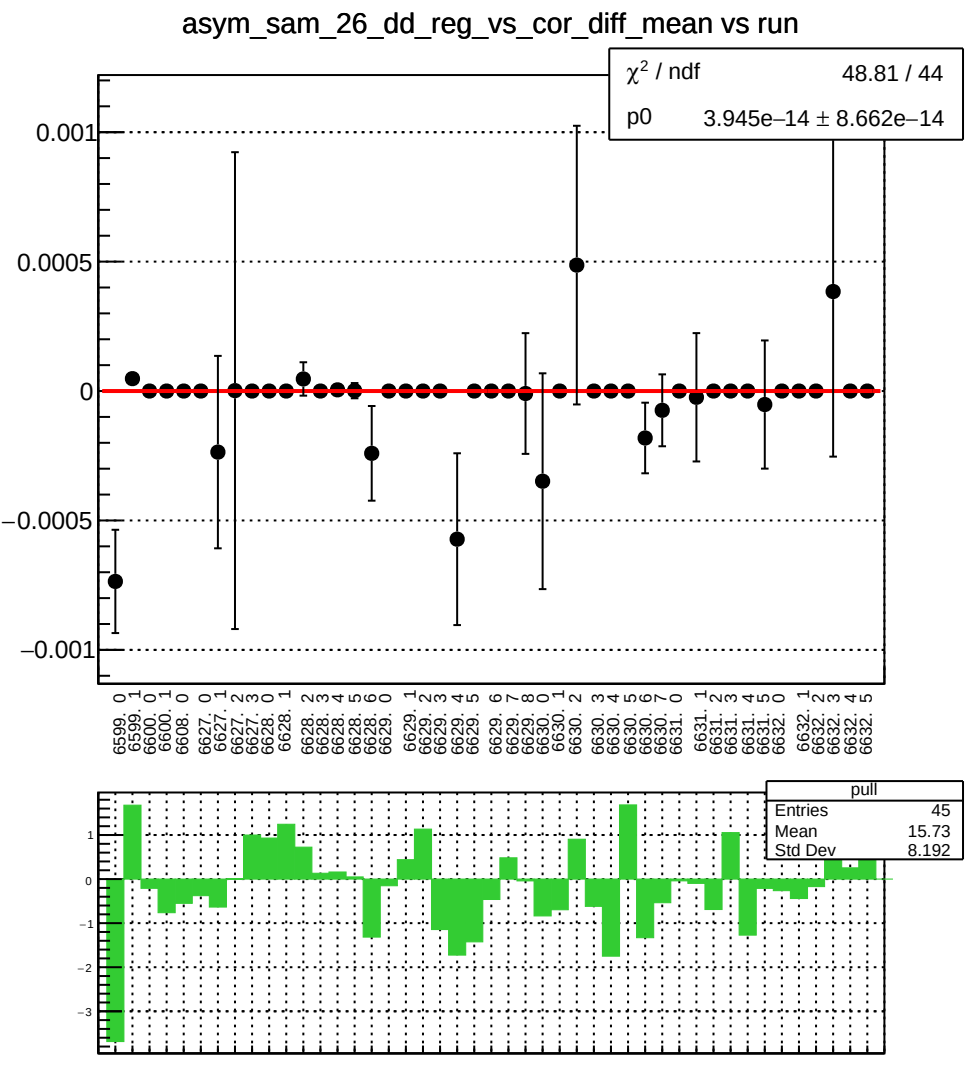

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 820.9 / 44
p0 203.3 ± 0.2165
220
215
210
205
200
195
190
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

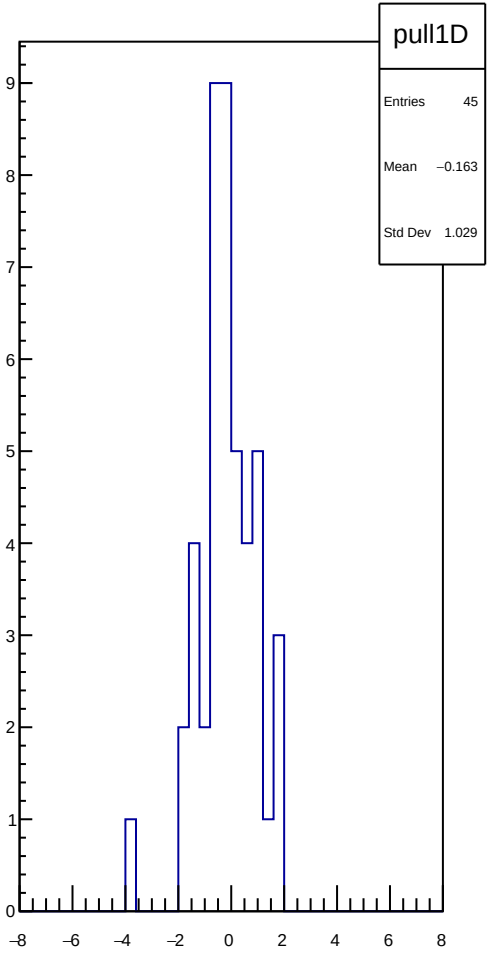

asym_sam_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 33.63 / 44
p0 2833 ± 2243
40000
20000
0
−20000
−40000
−60000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −384.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.009823
Std Dev 0.8645
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

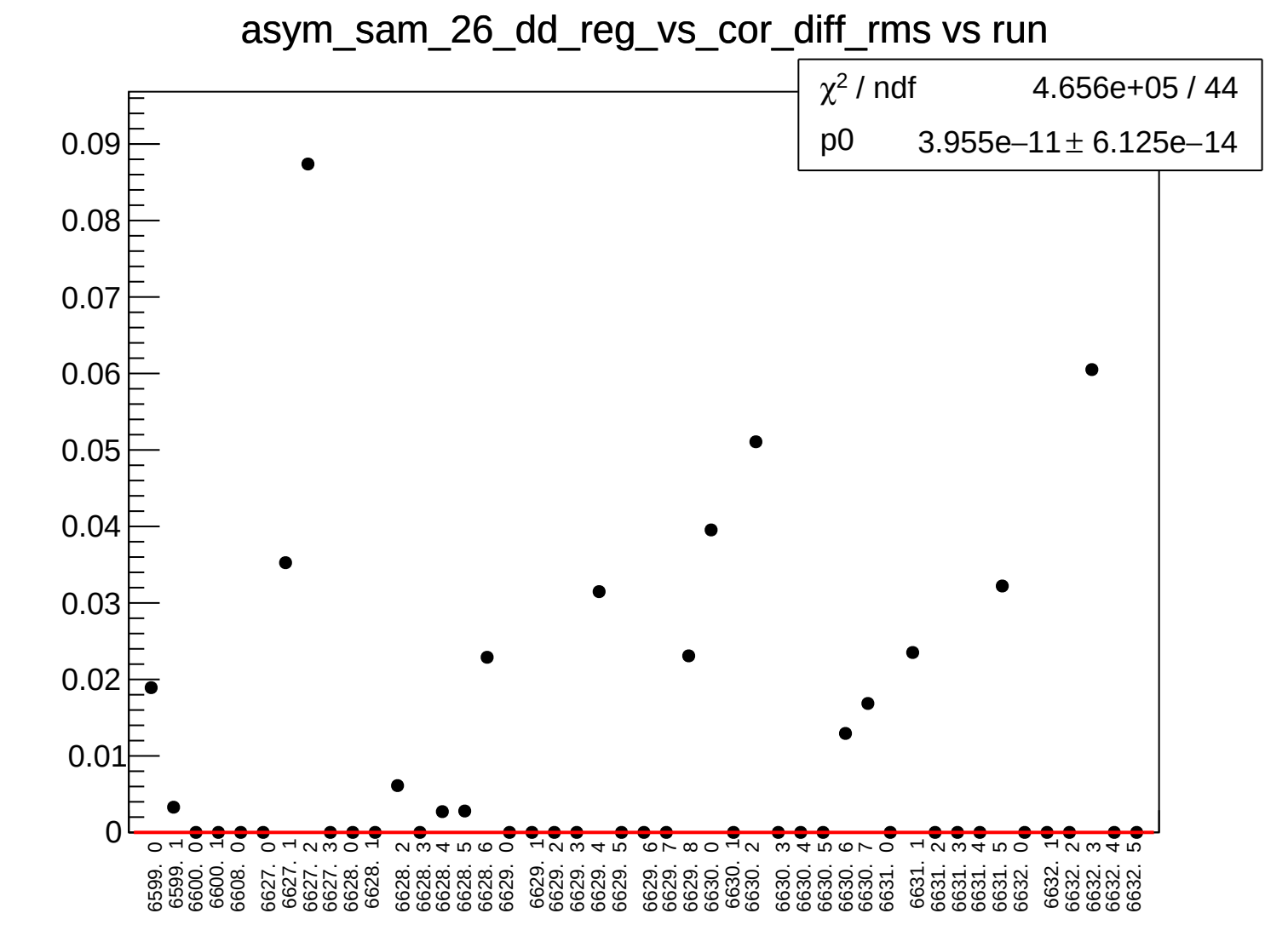

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 2856 / 44
p0 1487 ± 1.586
1750
1700
1650
1600
1550
1500
1450
1400
1350
1300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

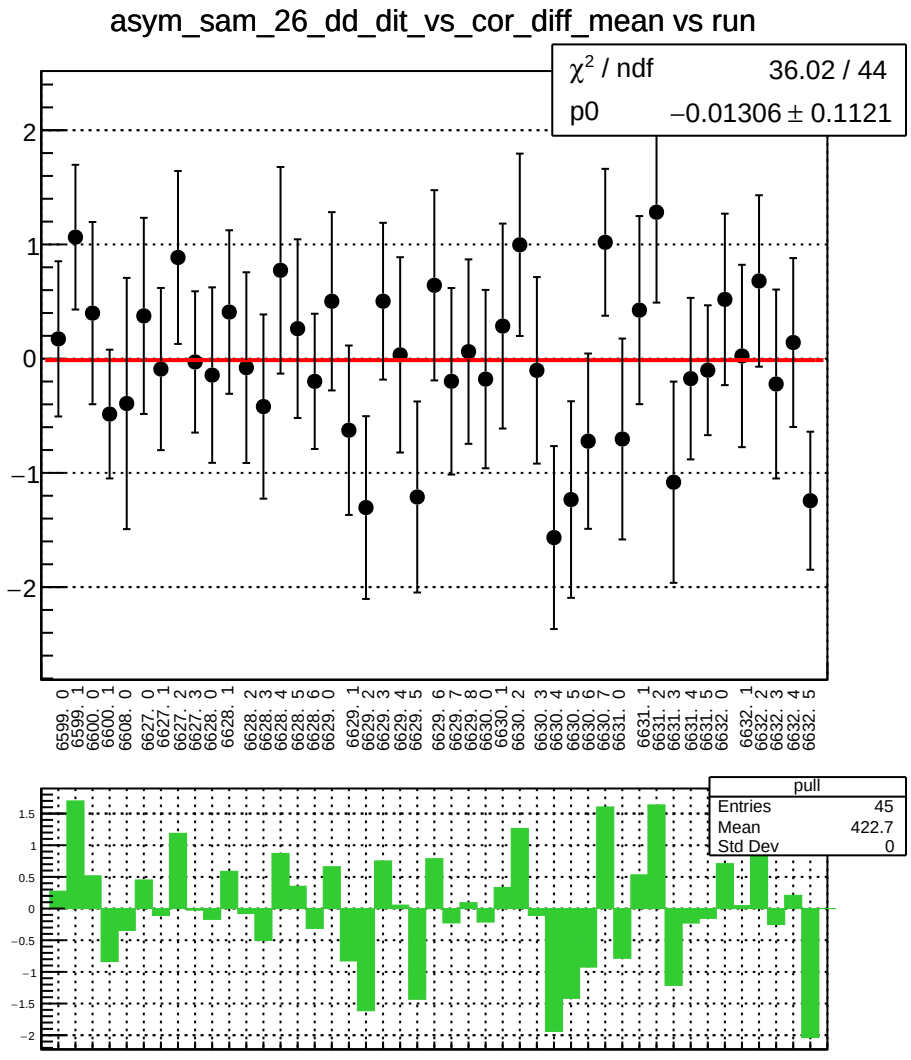

asym_sam_26_dd_mean vs run
χ² / ndf 37.01 / 44
p0 −2550 ± 2214
60000
40000
20000
0
−20000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −295.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01219
Std Dev 0.9068
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

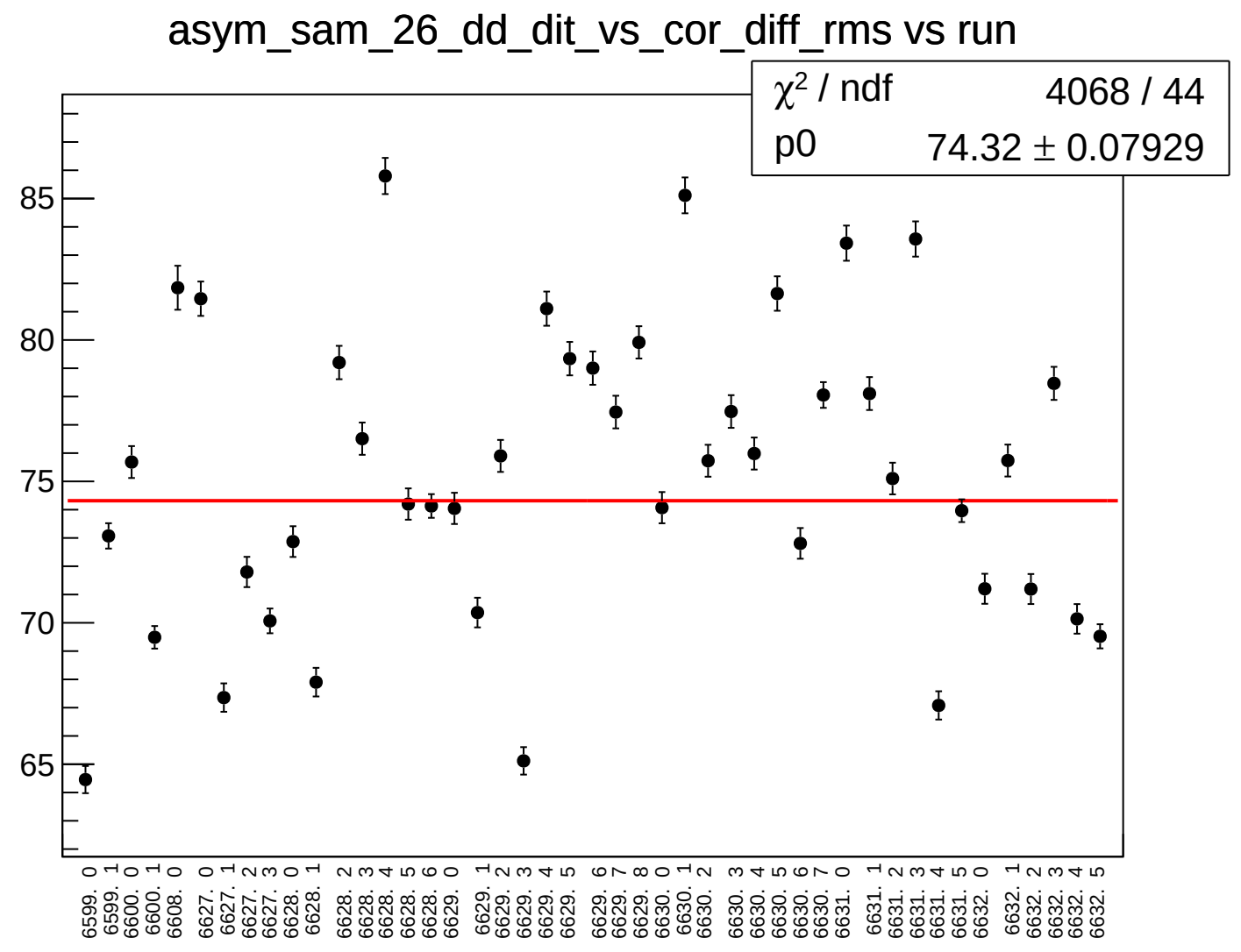

asym_sam_26_dd_rms vs run
χ² / ndf 3060 / 44
p0 1468 ± 1.565
1700
1650
1600
1550
1500
1450
1400
1350
1300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

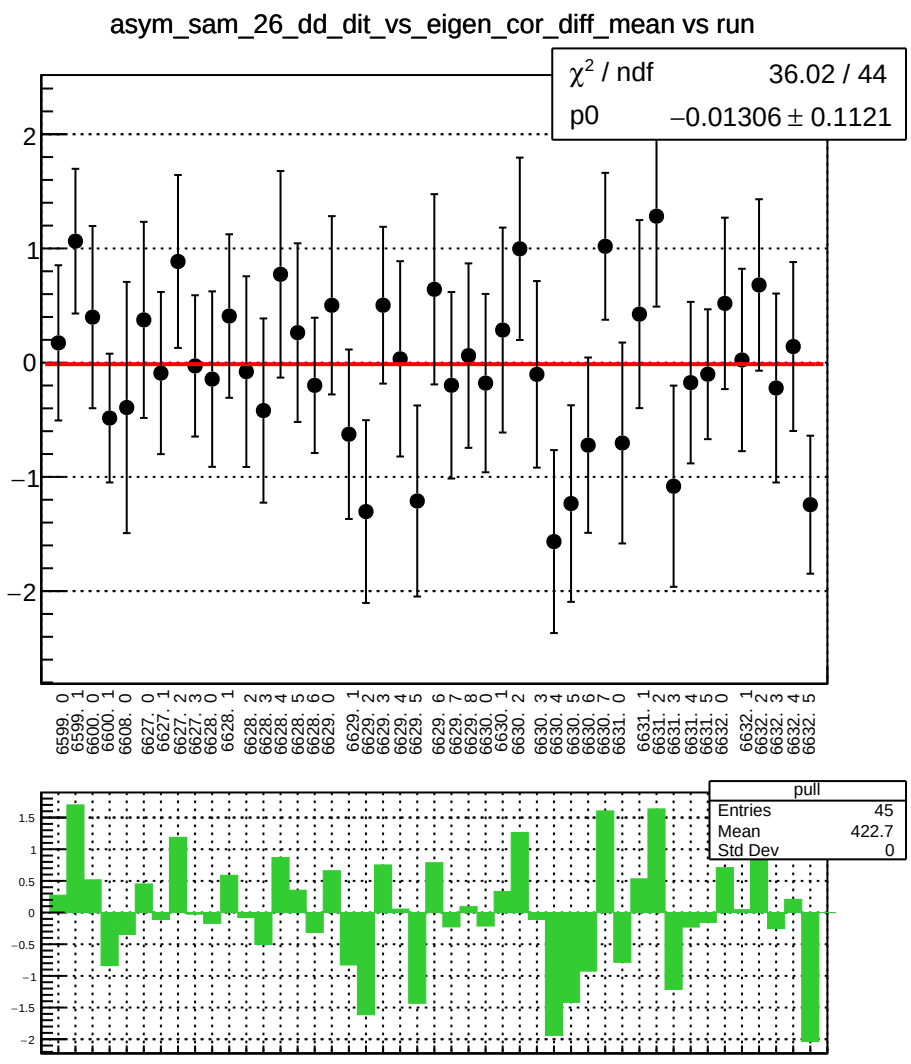

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 48.81 / 44
p0 3.945e−14 ± 8.662e−14
0.001
0.0005
0
−0.0005
−0.001
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 15.73
Std Dev 8.192
1
0
−1
−2
−3

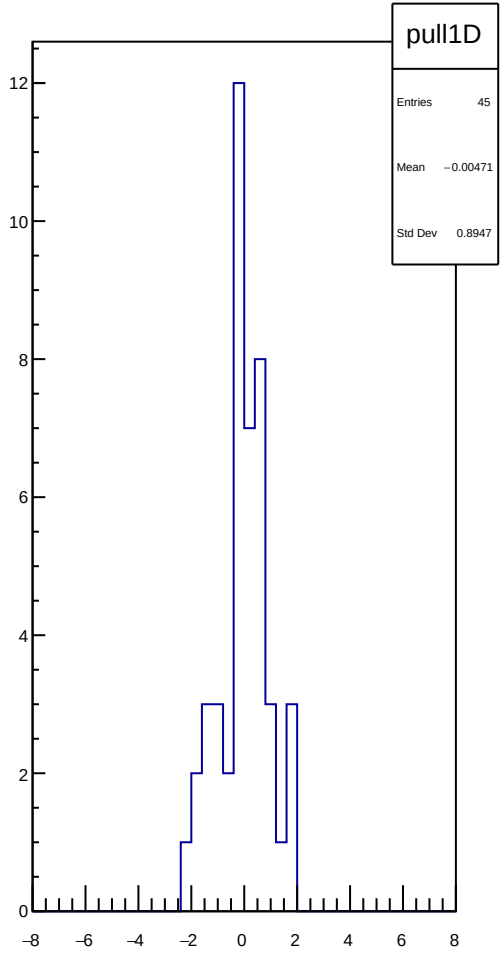

pull1D
Entries 45
Mean −0.163
Std Dev 1.029
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

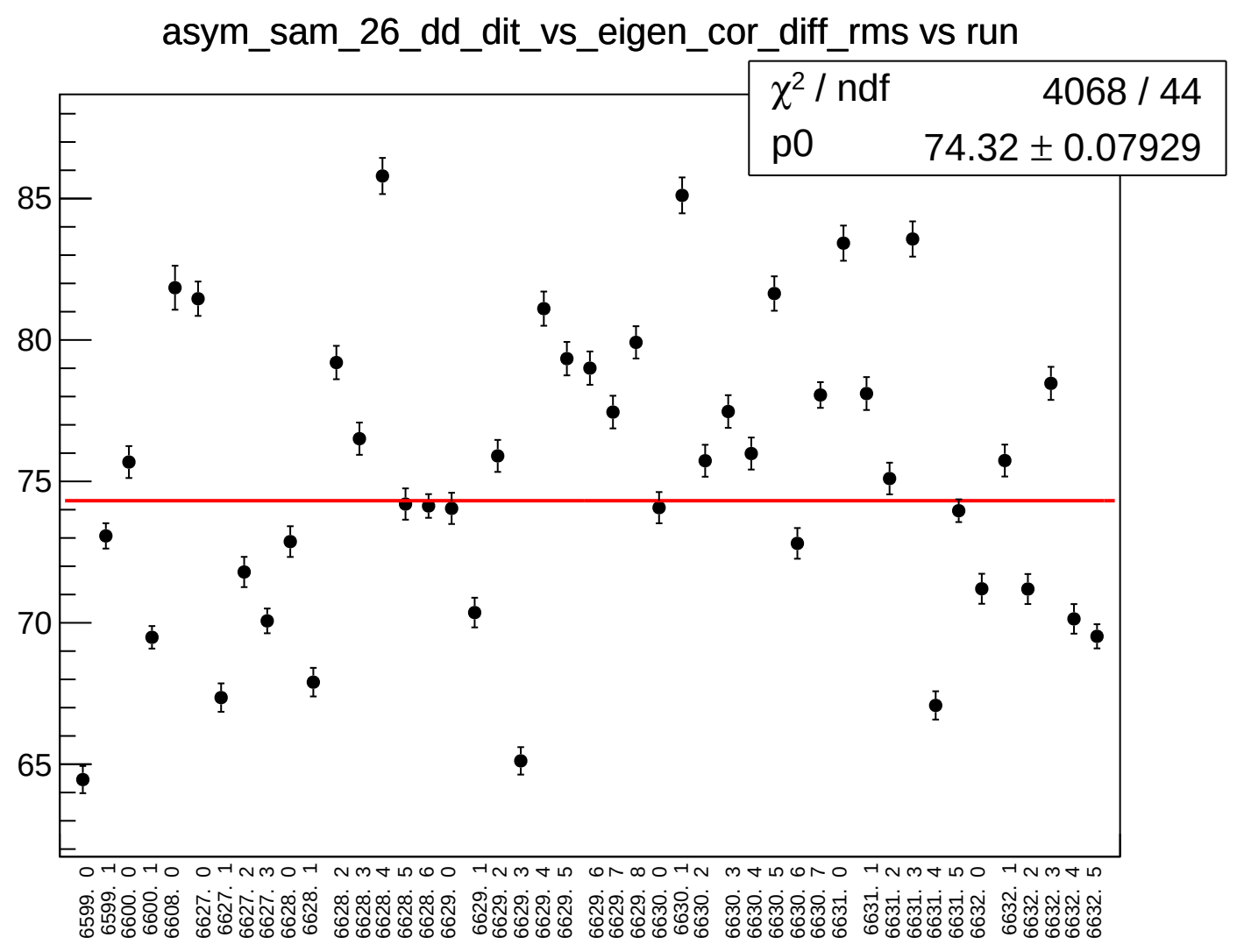

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.656e+05 / 44
p0 3.955e−11 ± 6.125e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

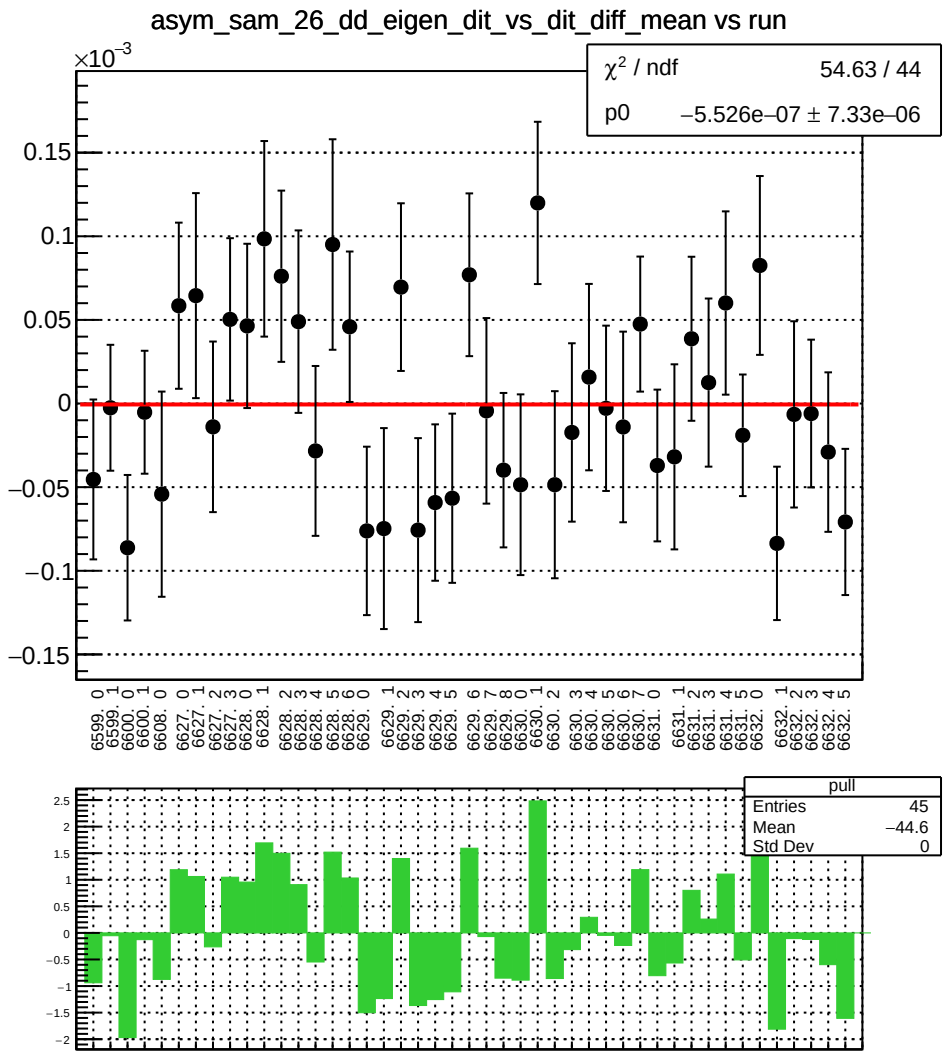

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 36.02 / 44
p0 −0.01306 ± 0.1121
pull
Entries 45
Mean 422.7
Std Dev 0
pull1D
Entries 45
Mean −0.00471
Std Dev 0.8947

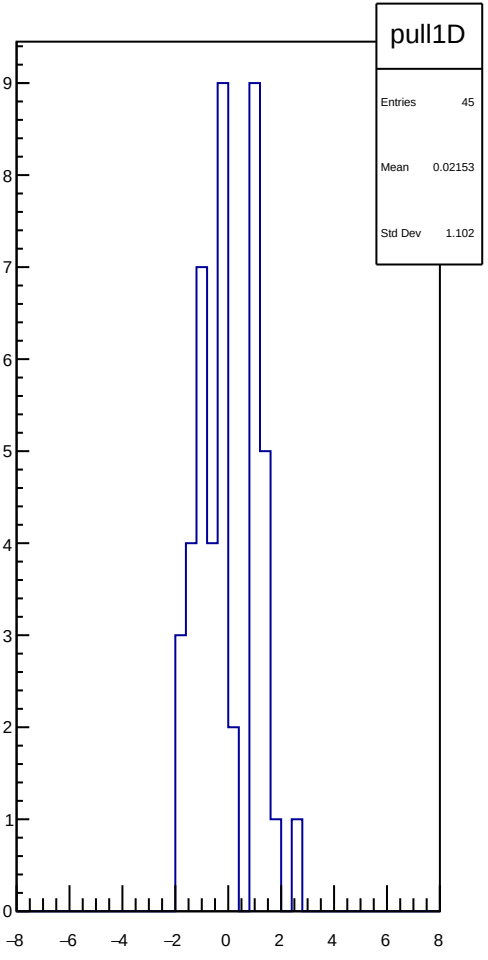

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4068 / 44
p0 74.32 ± 0.07929
85
80
75
70
65
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

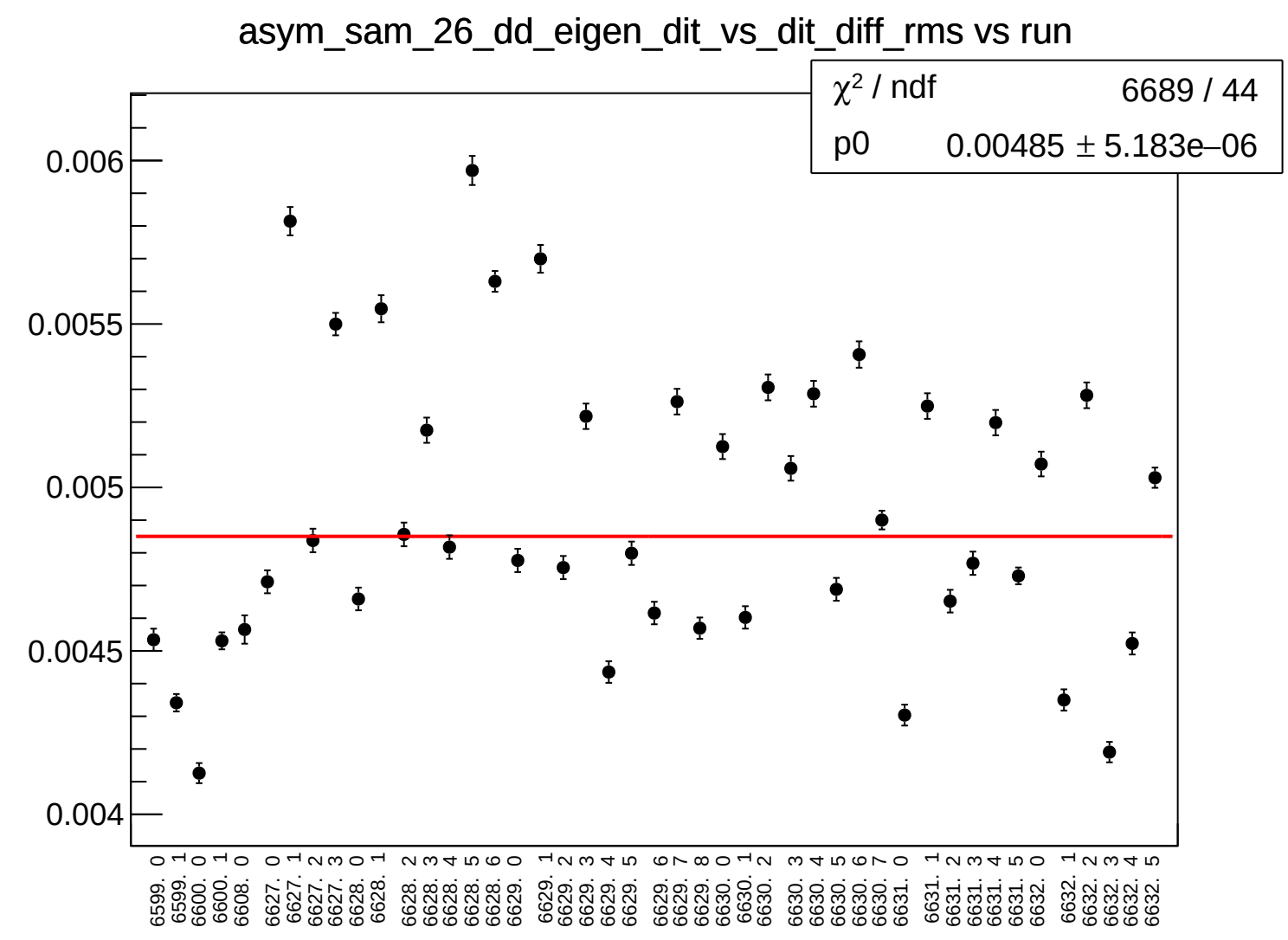

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.02 / 44
p0 −0.01306 ± 0.1121
pull
Entries 45
Mean 422.7
Std Dev 0

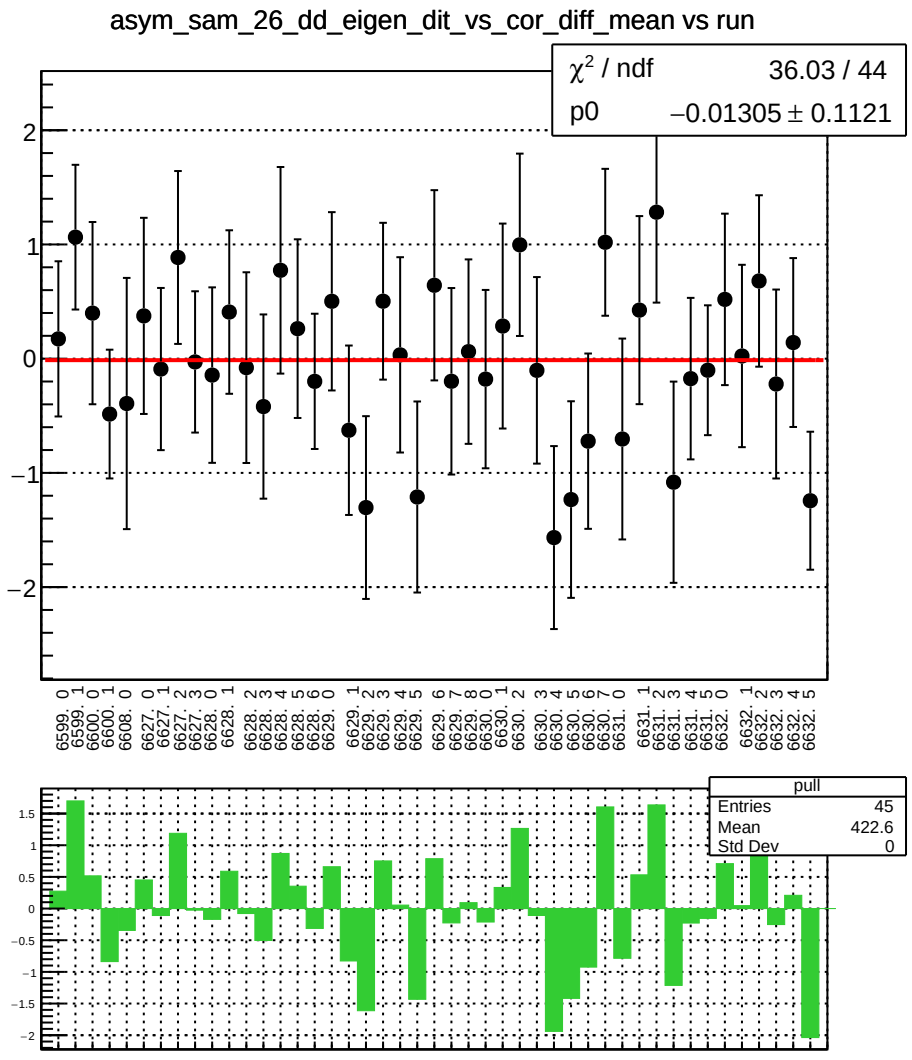

pull1D
Entries 45
Mean −0.00471
Std Dev 0.8947

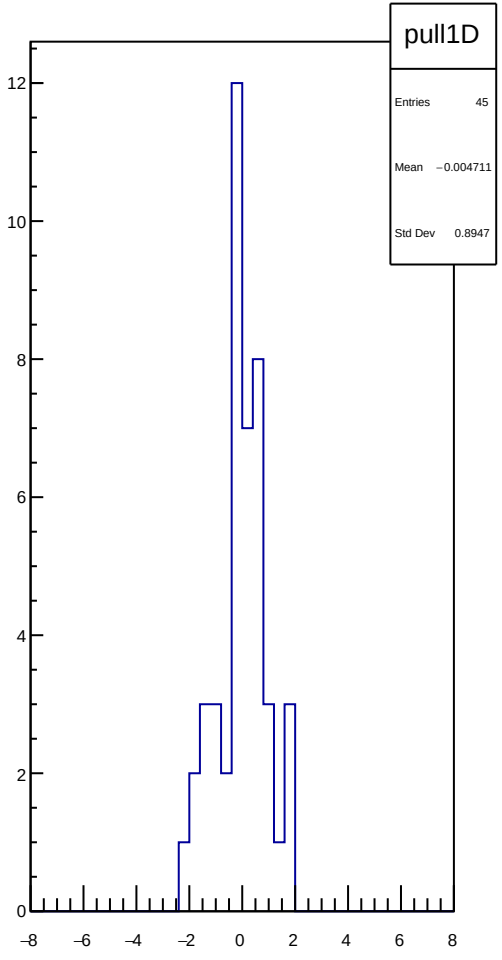

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4068 / 44
p0 74.32 ± 0.07929
85
80
75
70
65
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

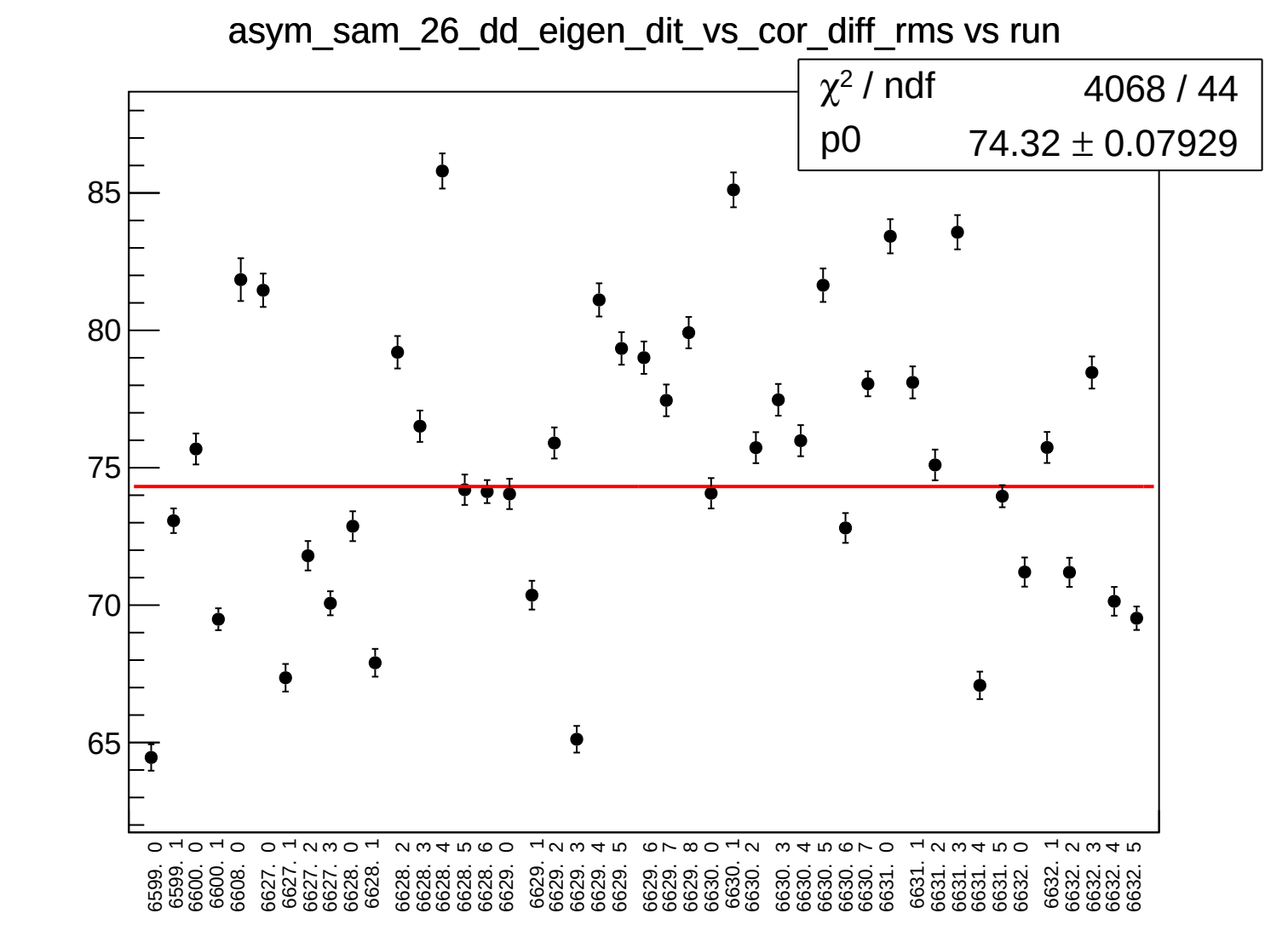

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 54.63 / 44
p0 −5.526e−07 ± 7.33e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −44.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.02153
Std Dev 1.102
9
8
7
6
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 6689 / 44
p0 0.00485 ± 5.183e–06
0.006
0.0055
0.005
0.0045
0.004
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 36.03 / 44
p0 −0.01305 ± 0.1121
pull
Entries 45
Mean 422.6
Std Dev 0


pull1D
Entries 45
Mean −0.004711
Std Dev 0.8947


asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4068 / 44
p0 74.32 ± 0.07929
85
80
75
70
65
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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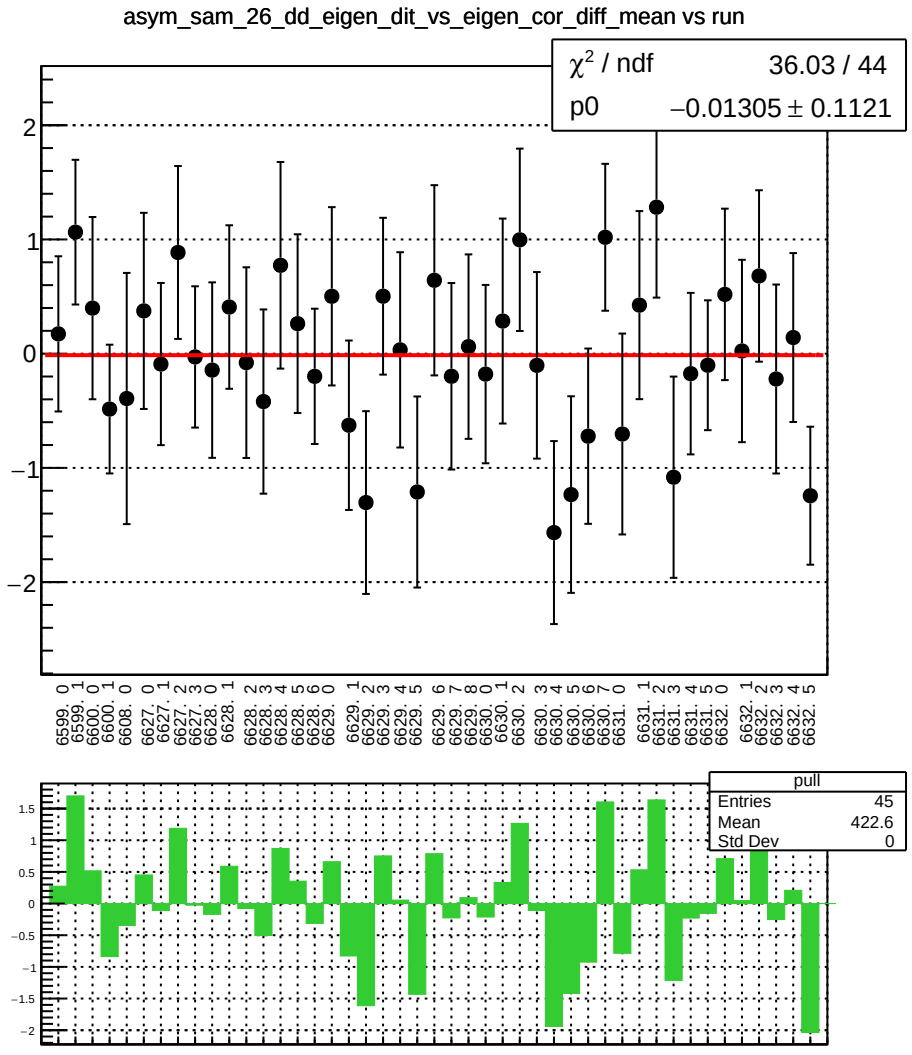
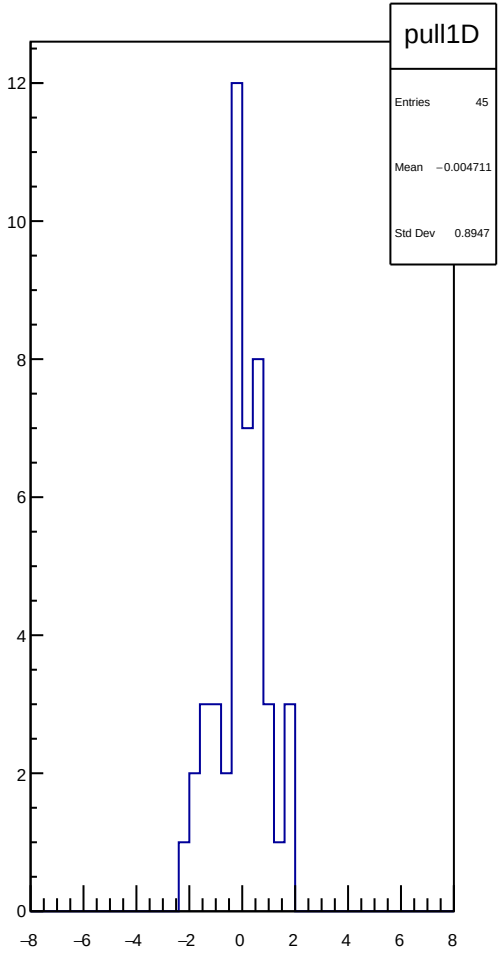
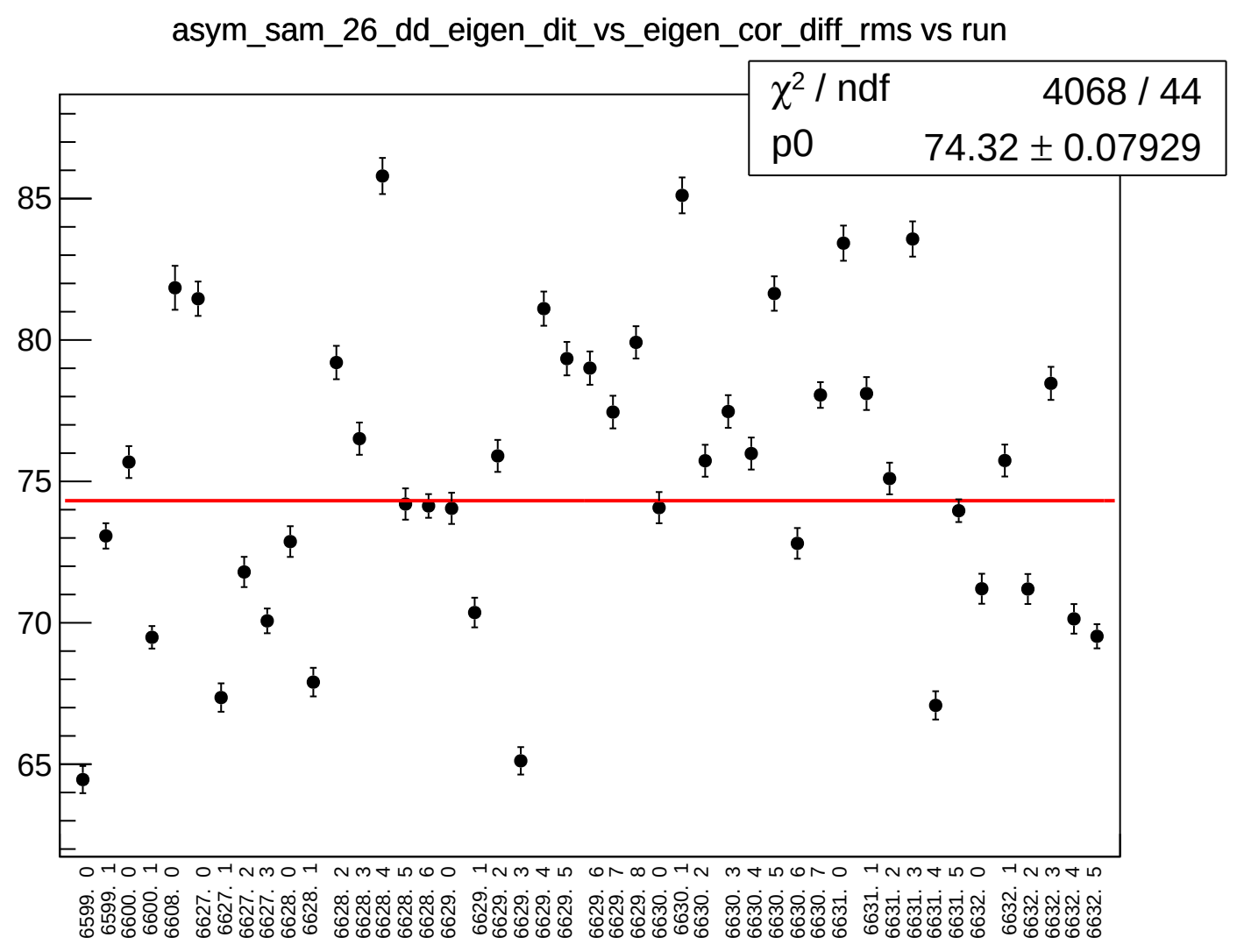
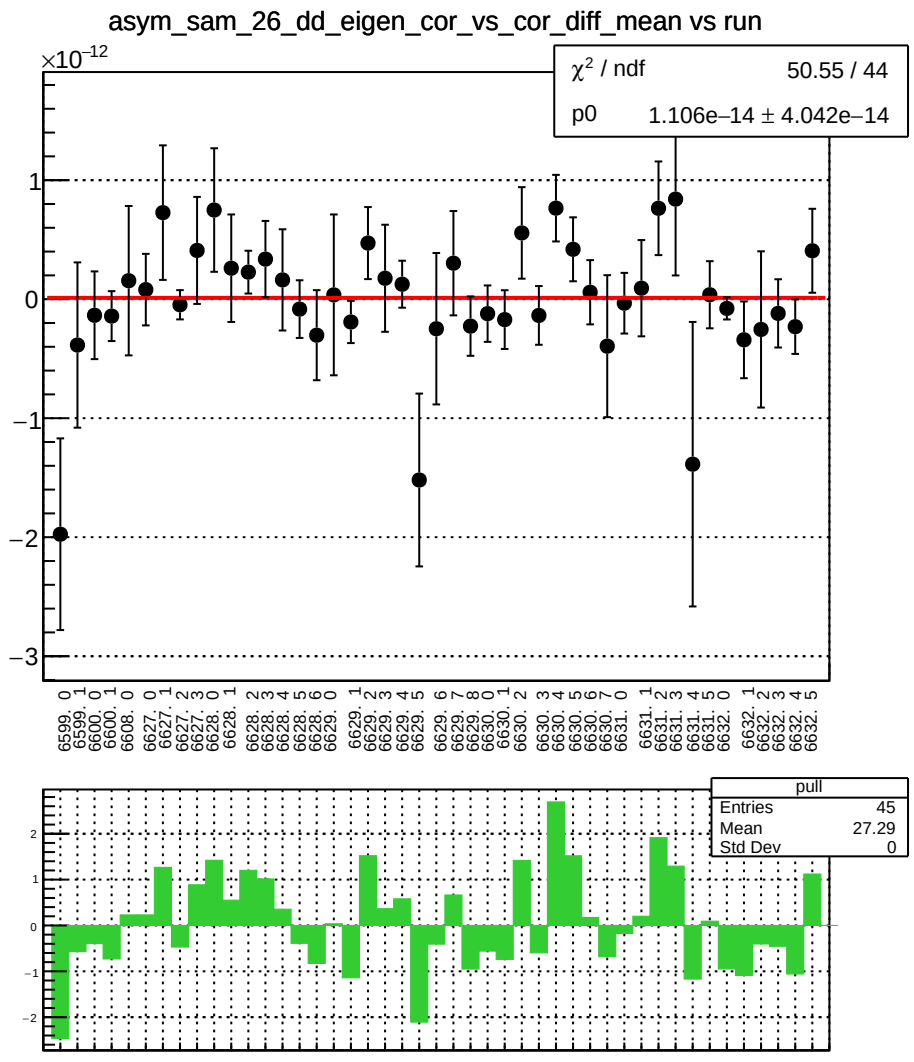
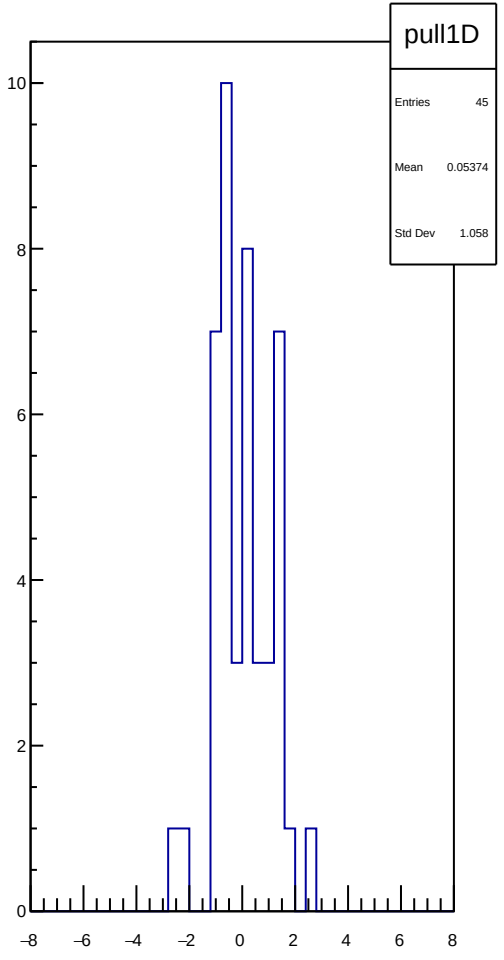
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

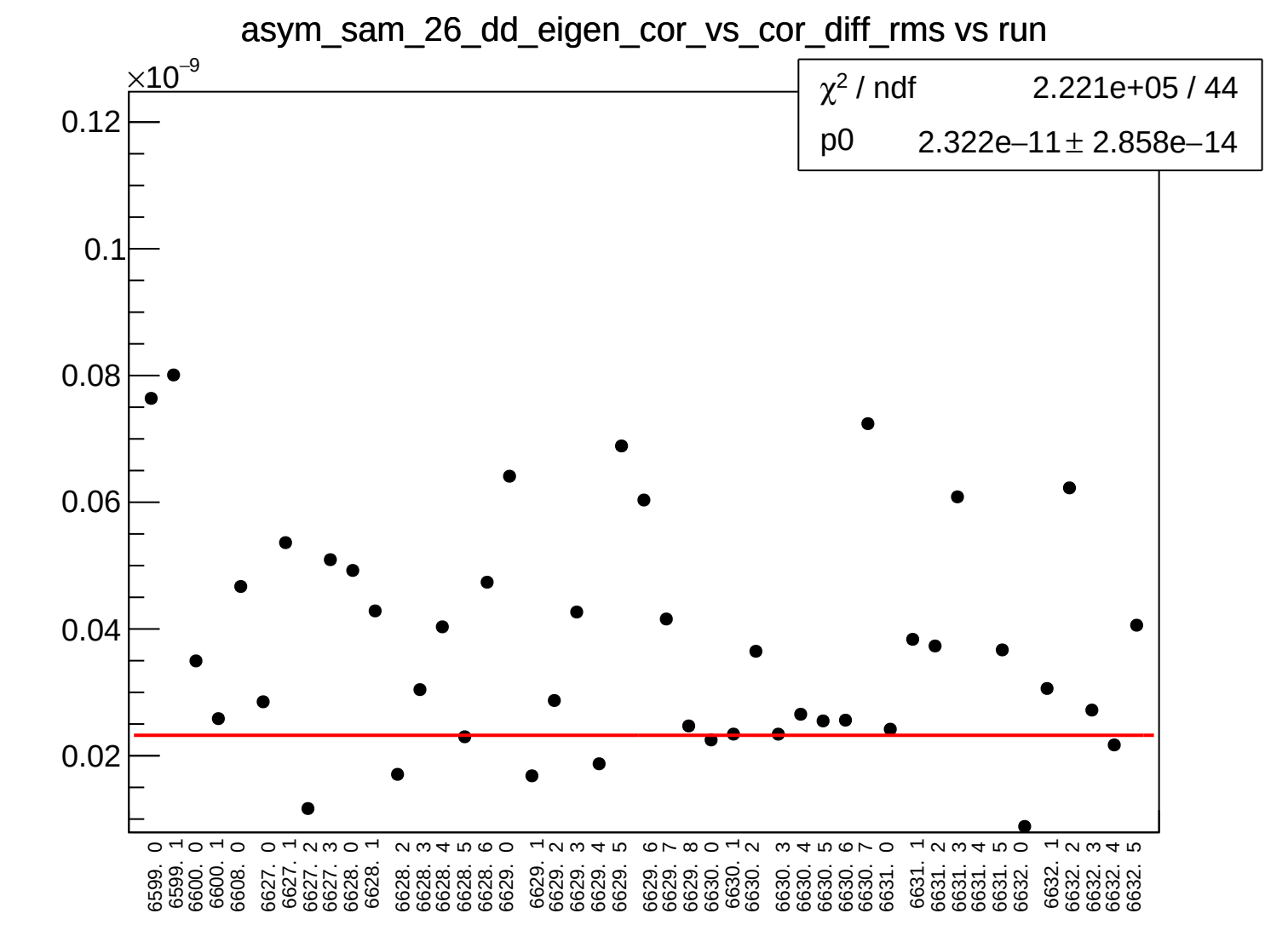

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.03 / 44
p0 −0.01305 ± 0.1121
pull
Entries 45
Mean 422.6
Std Dev 0


pull1D
Entries 45
Mean −0.004711
Std Dev 0.8947


asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4068 / 44
p0 74.32 ± 0.07929
85
80
75
70
65
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 50.55 / 44
p0 1.106e−14 ± 4.042e−14
pull
Entries 45
Mean 27.29
Std Dev 0


pull1D
Entries 45
Mean 0.05374
Std Dev 1.058


asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.221e+05 / 44
p0 2.322e−11 ± 2.858e−14
0.12
0.1
0.08
0.06
0.04
0.02
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
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6632. 2
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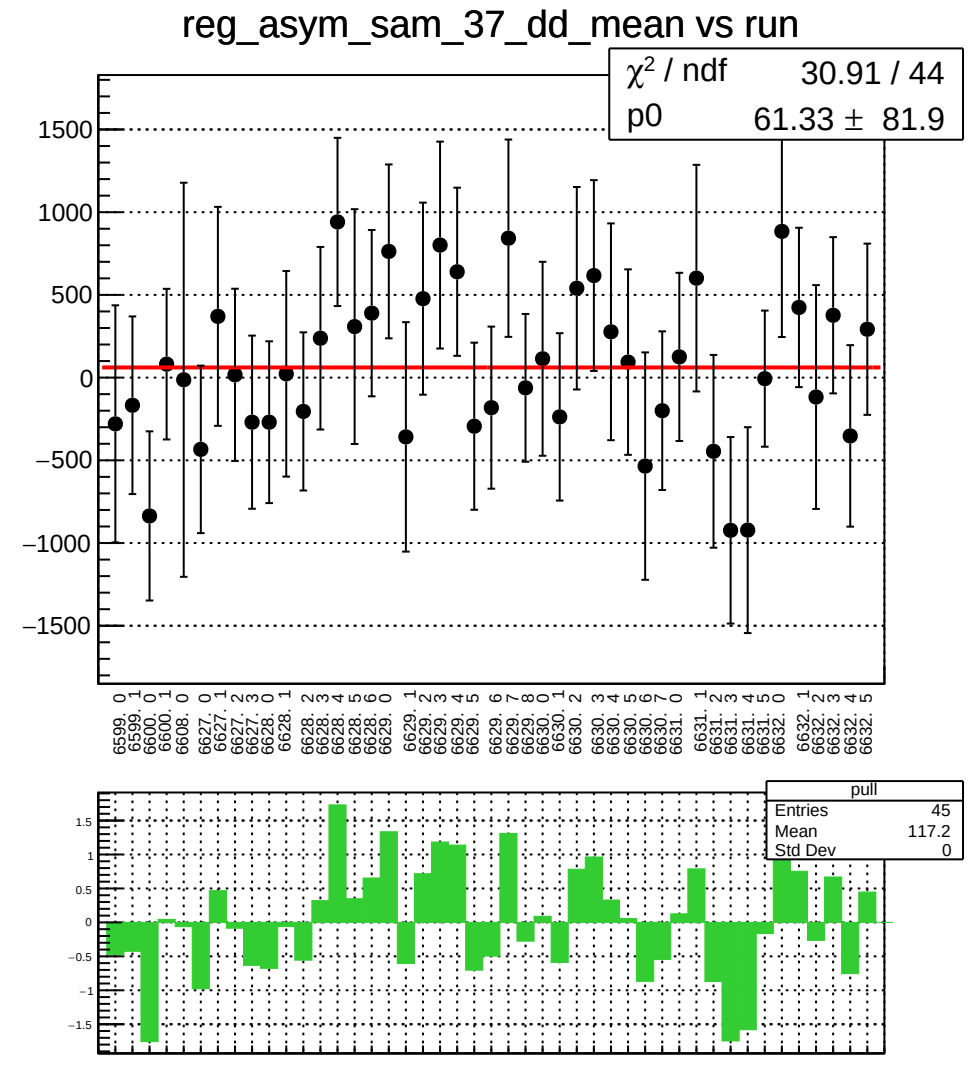
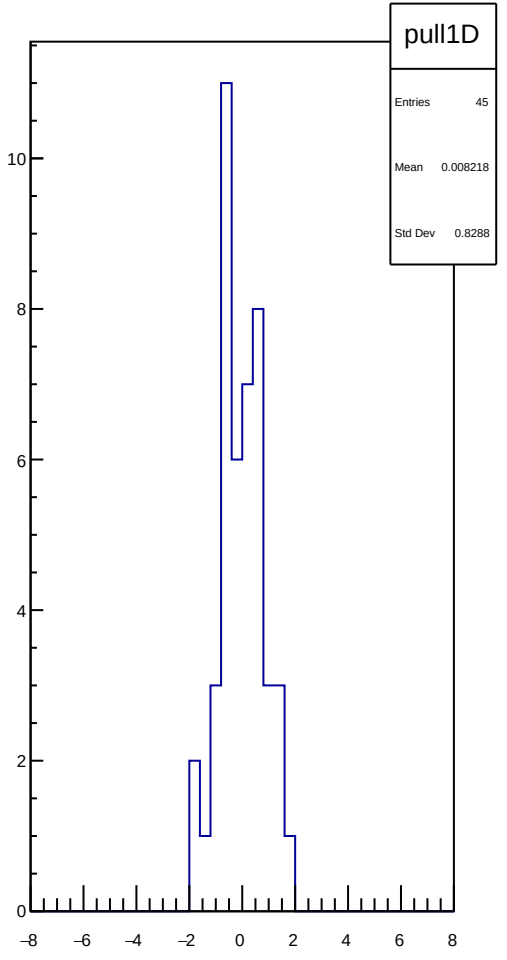
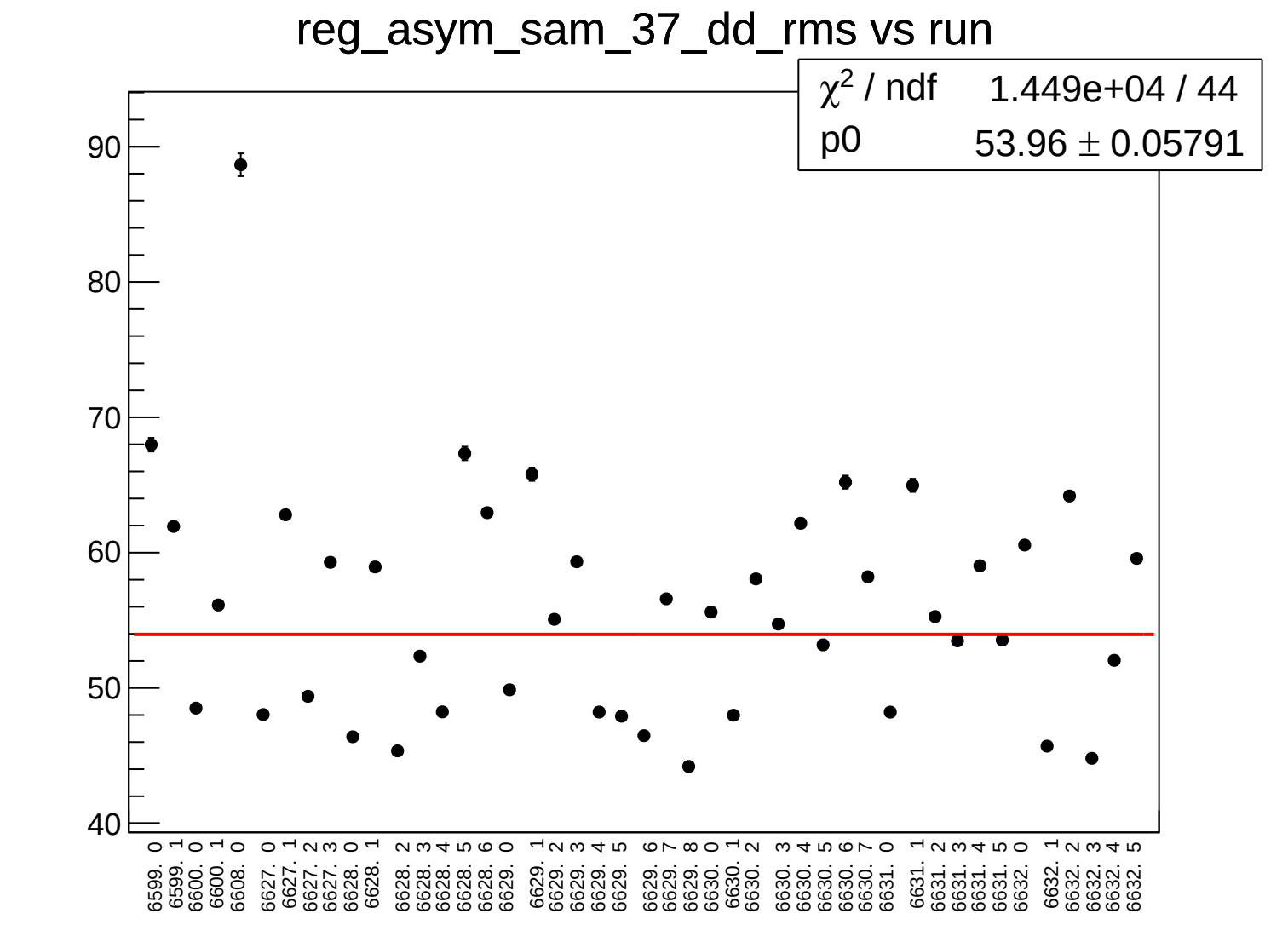
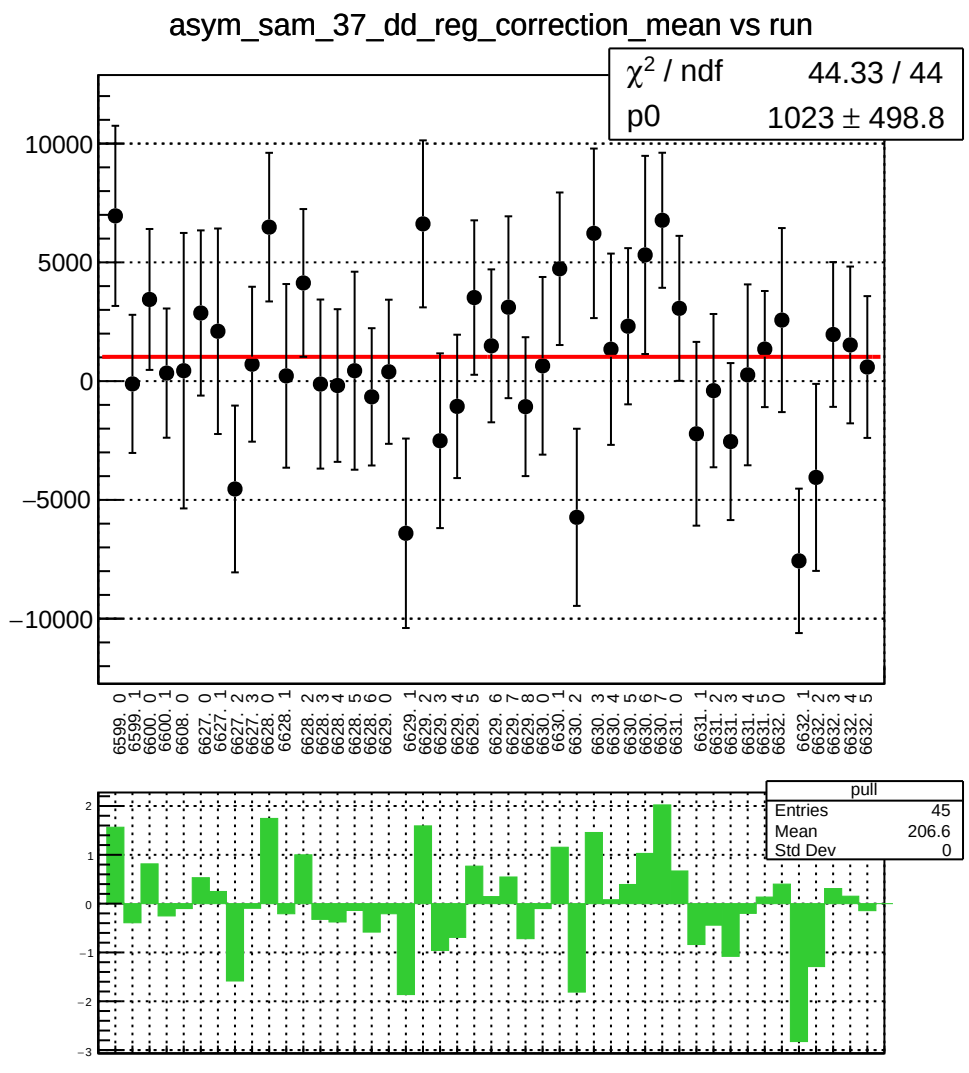
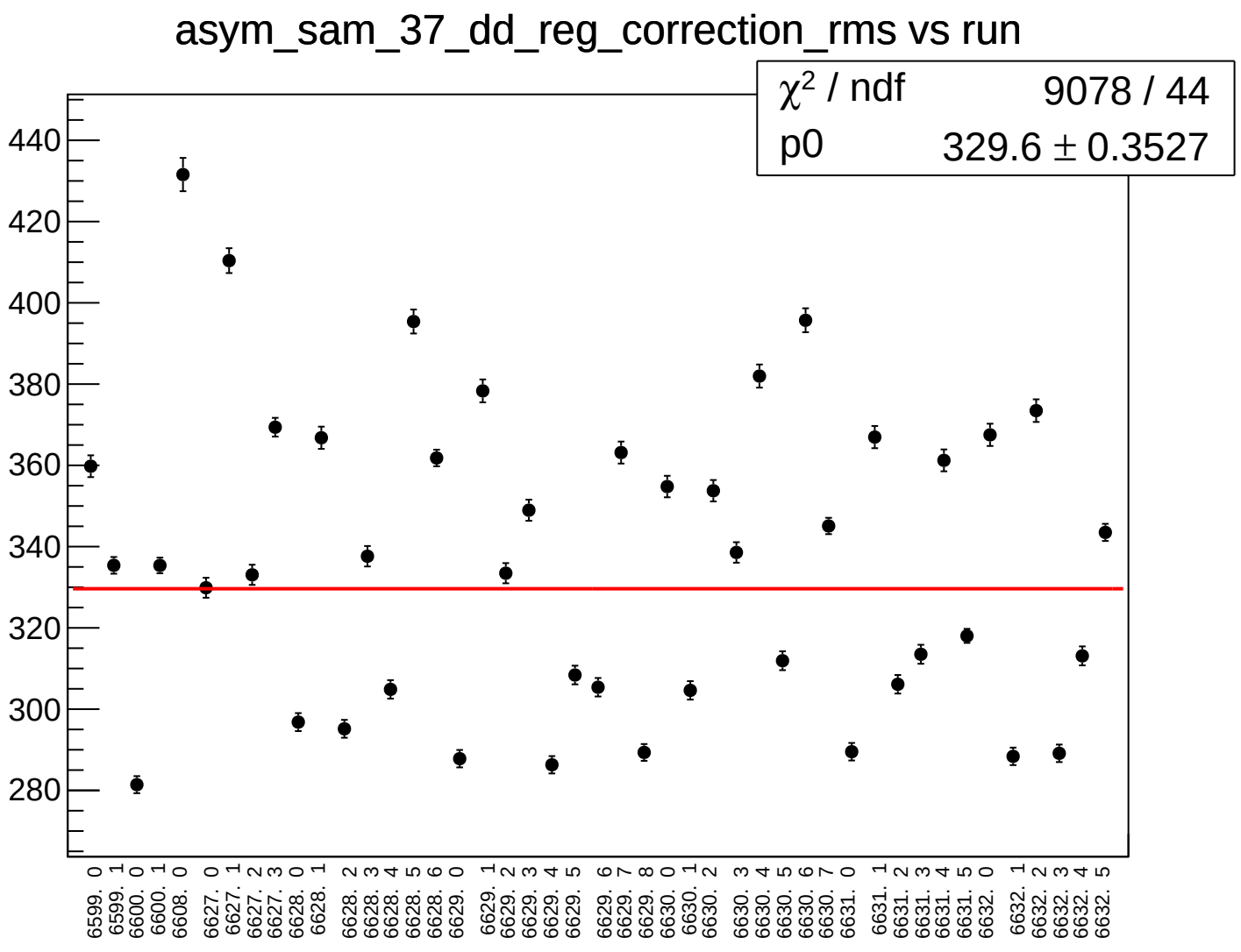
6632. 4
6632. 5

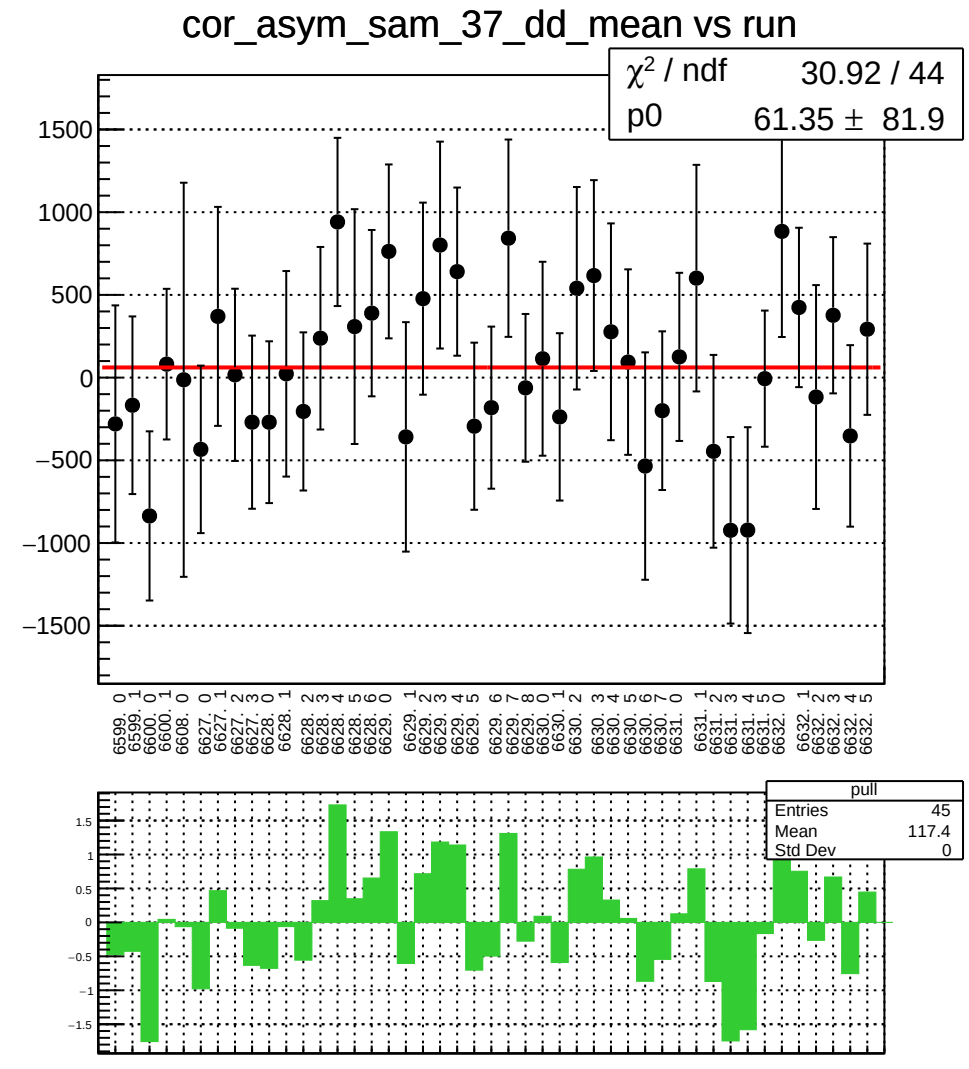

reg_asym_sam_37_dd_mean vs run
χ² / ndf 30.91 / 44
p0 61.33 ± 81.9
1500
1000
500
0
−500
−1000
−1500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 117.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

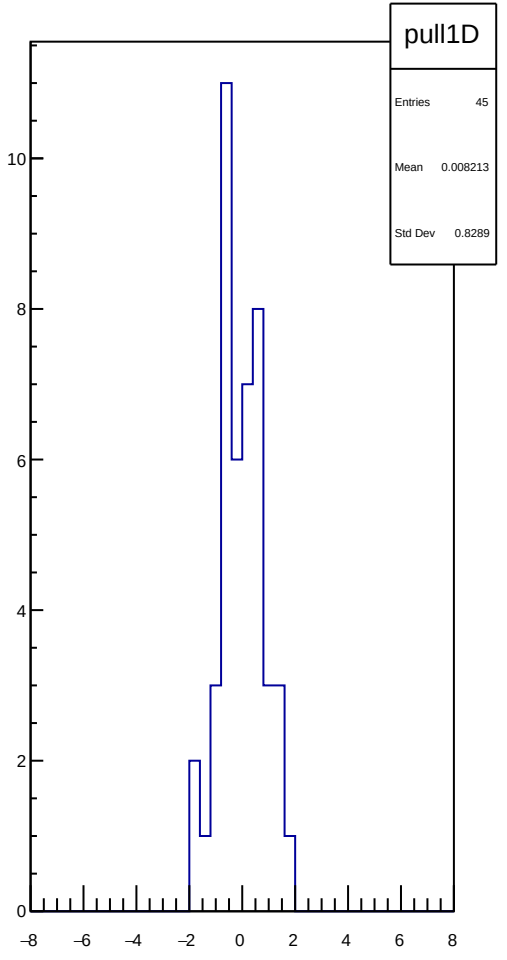

pull1D
Entries 45
Mean 0.008218
Std Dev 0.8288
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

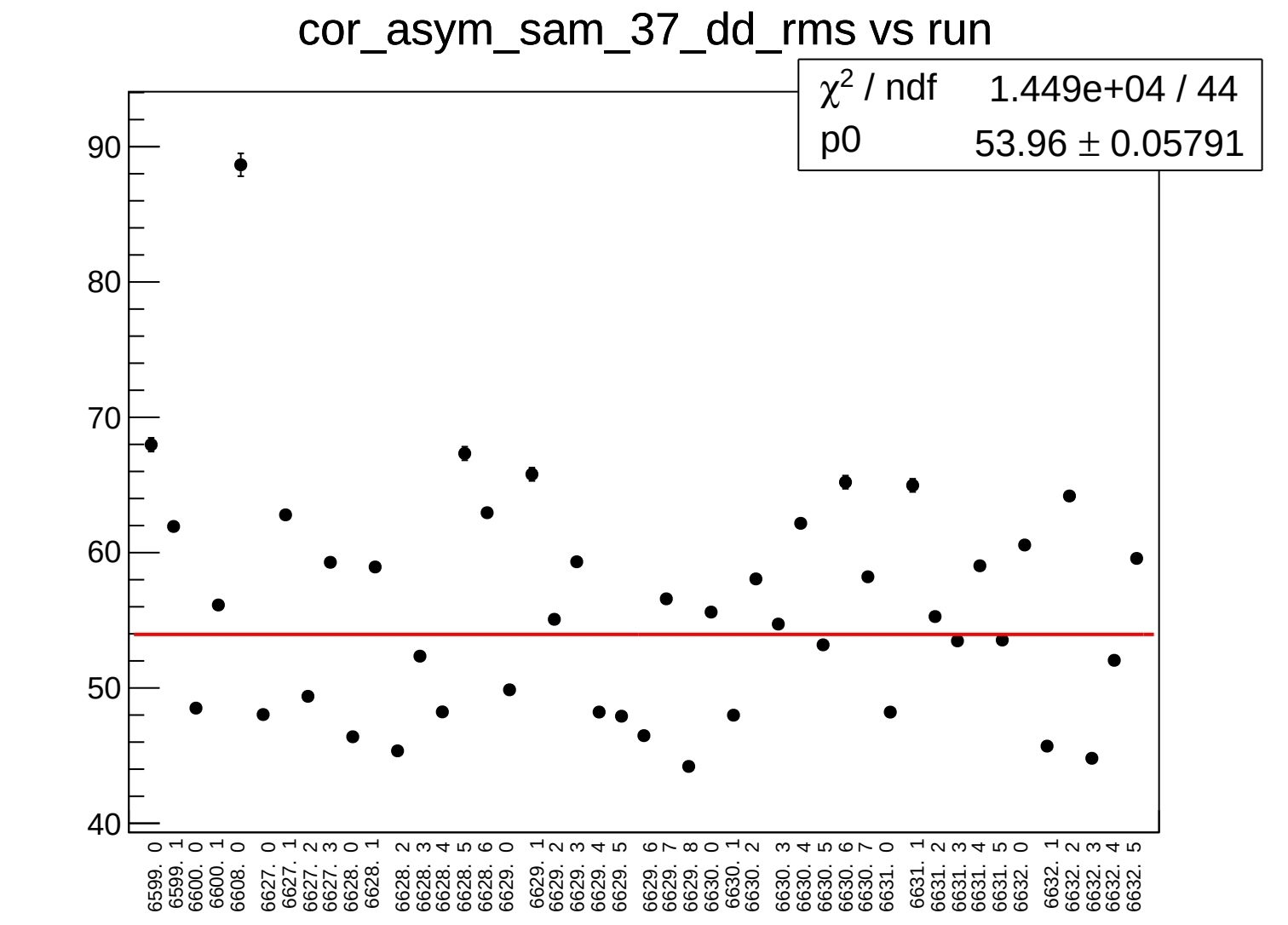

reg_asym_sam_37_dd_rms vs run
χ2 / ndf 1.449e+04 / 44
p0 53.96 ± 0.05791
90
80
70
60
50
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 44.33 / 44
p0 1023 ± 498.8
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 206.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.01038
Std Dev 0.9925
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 9078 / 44
p0 329.6 ± 0.3527
440
420
400
380
360
340
320
300
280
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_sam_37_dd_mean vs run
χ² / ndf 30.92 / 44
p0 61.35 ± 81.9
1500
1000
500
0
−500
−1000
−1500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 117.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.008213
Std Dev 0.8289
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_37_dd_rms vs run
χ² / ndf 1.449e+04 / 44
p0 53.96 ± 0.05791
90
80
70
60
50
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
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6628. 2
6628. 3
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6629. 1
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6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
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6630. 7
6631. 0
6631. 1
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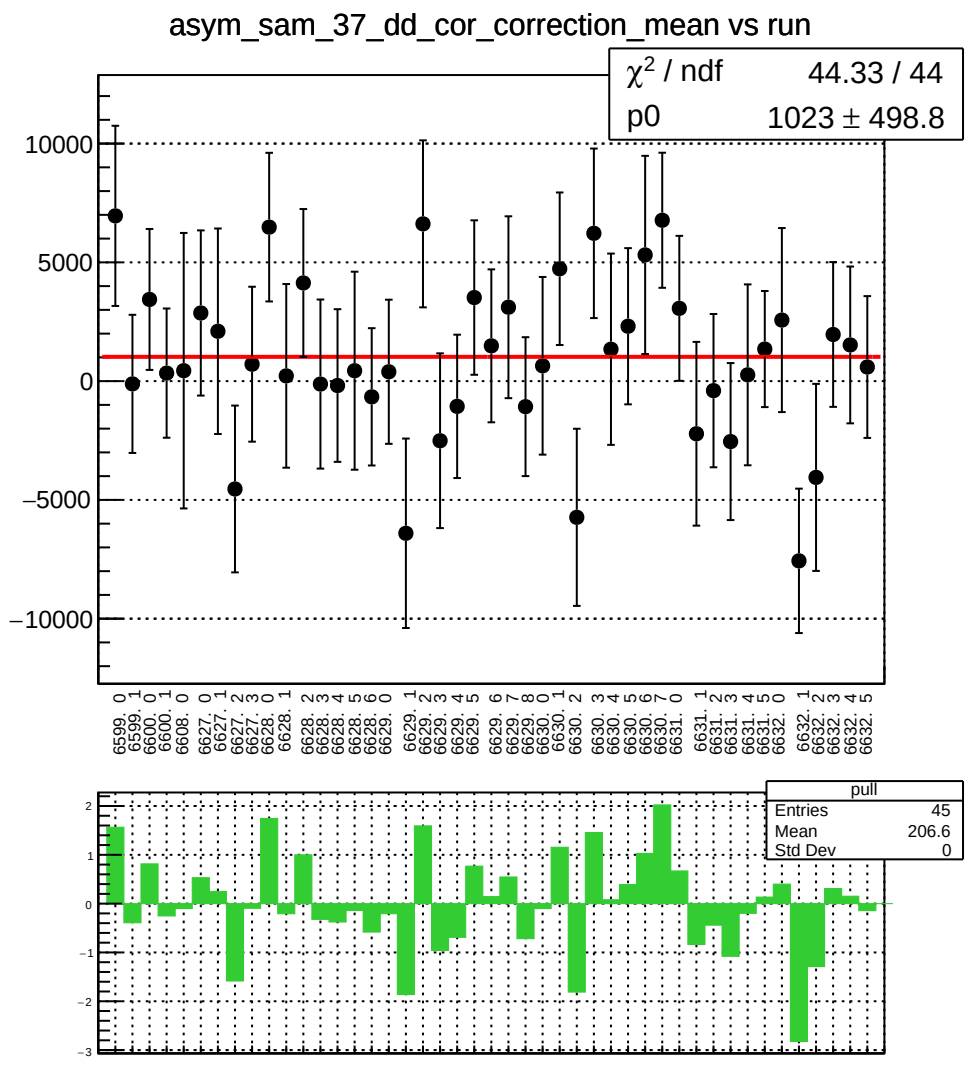
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 44.33 / 44
p0 1023 ± 498.8
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
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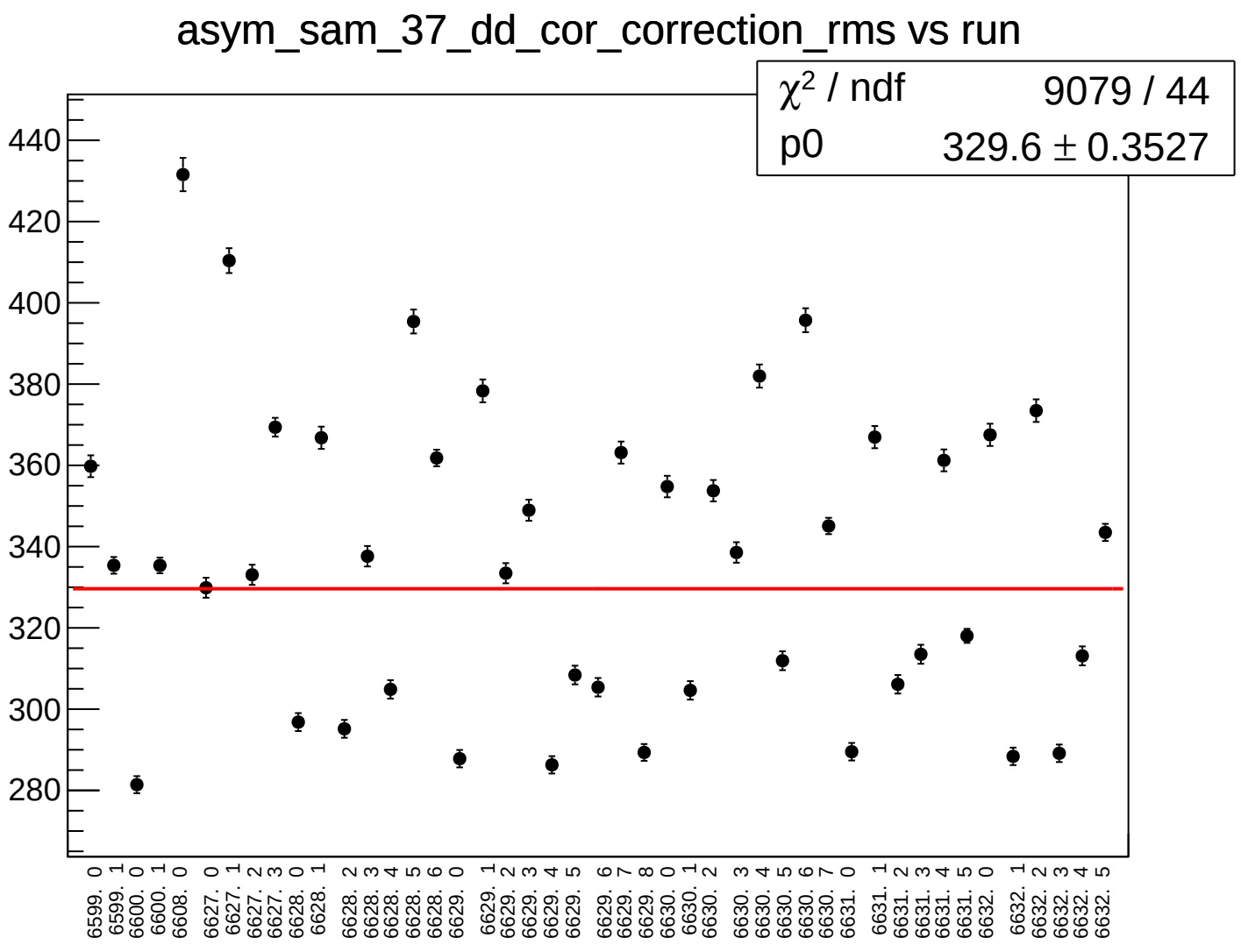
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 206.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.01038
Std Dev 0.9925
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_dd_cor_correction_rms vs run
$\chi^2$ / ndf 9079 / 44
p0 329.6 ± 0.3527
440
420
400
380
360
340
320
300
280
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6632. 0
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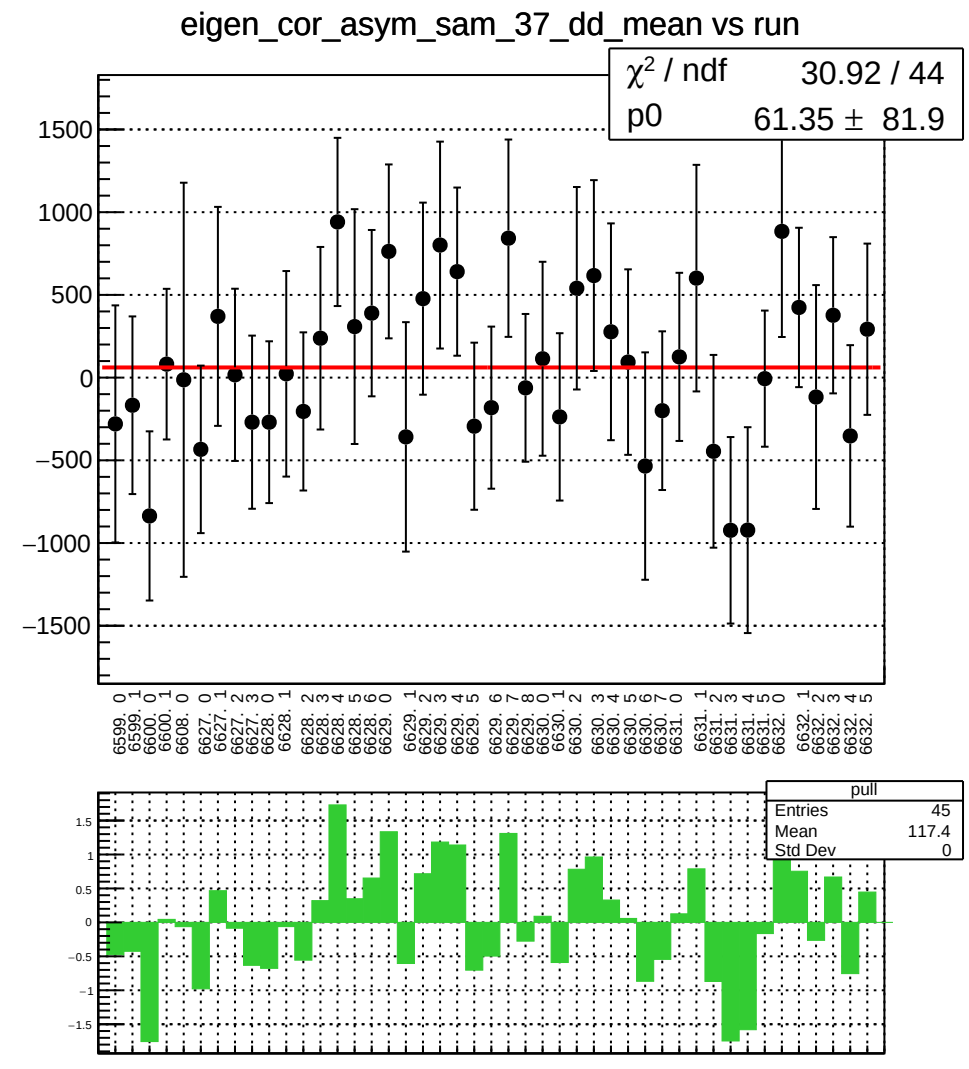
6632. 2
6632. 3
6632. 4
6632. 5


eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 30.92 / 44
p0 61.35 ± 81.9
1500
1000
500
0
−500
−1000
−1500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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6628. 6
6629. 0
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6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
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6630. 2
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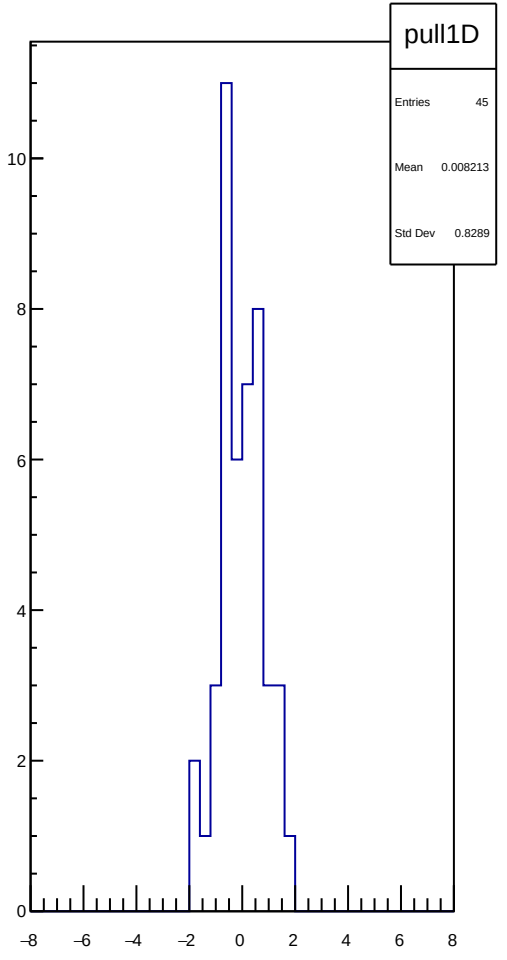
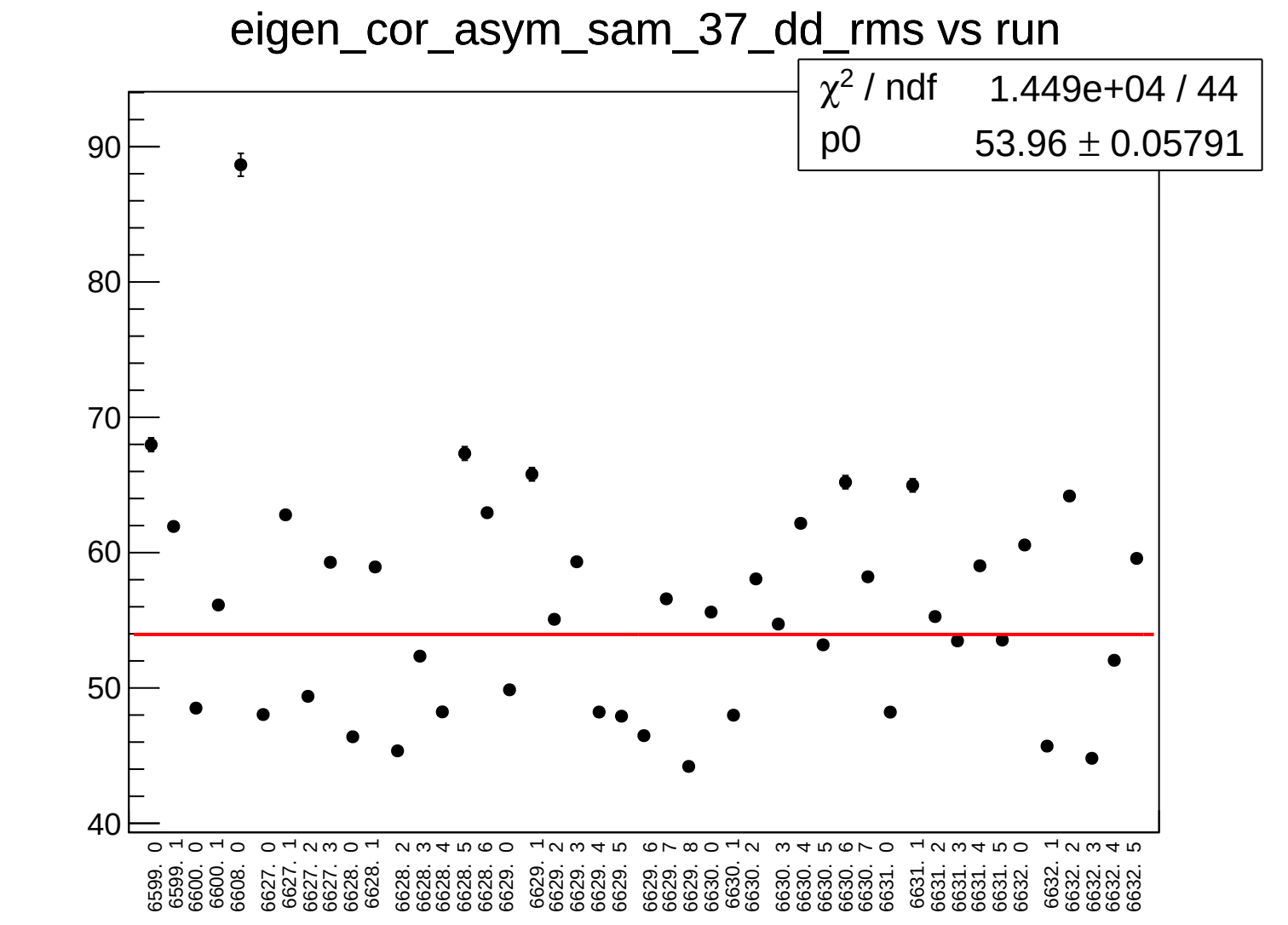
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 117.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.008213
Std Dev 0.8289
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 1.449e+04 / 44
p0 53.96 ± 0.05791
90
80
70
60
50
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6631. 1
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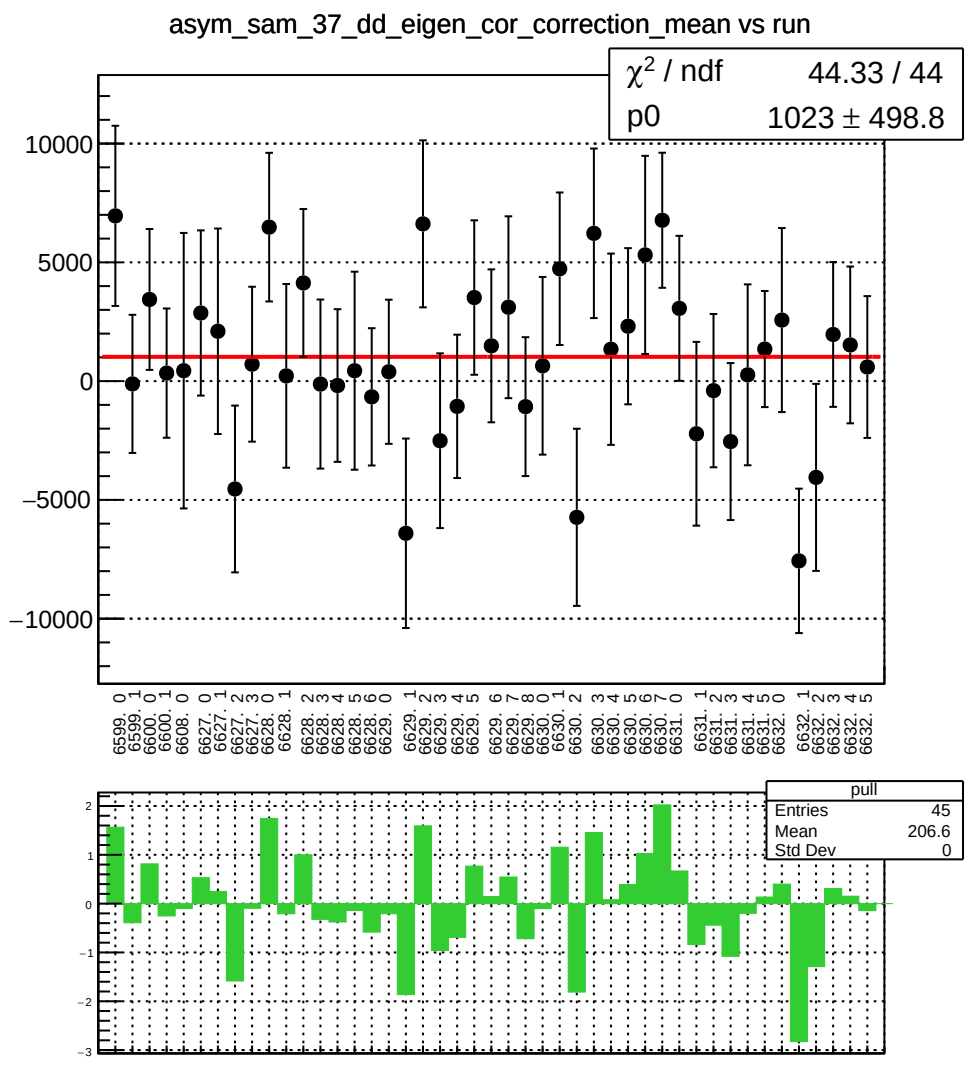
6632. 3
6632. 4
6632. 5


asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 44.33 / 44
p0 1023 ± 498.8
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
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6628. 5
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6629. 7
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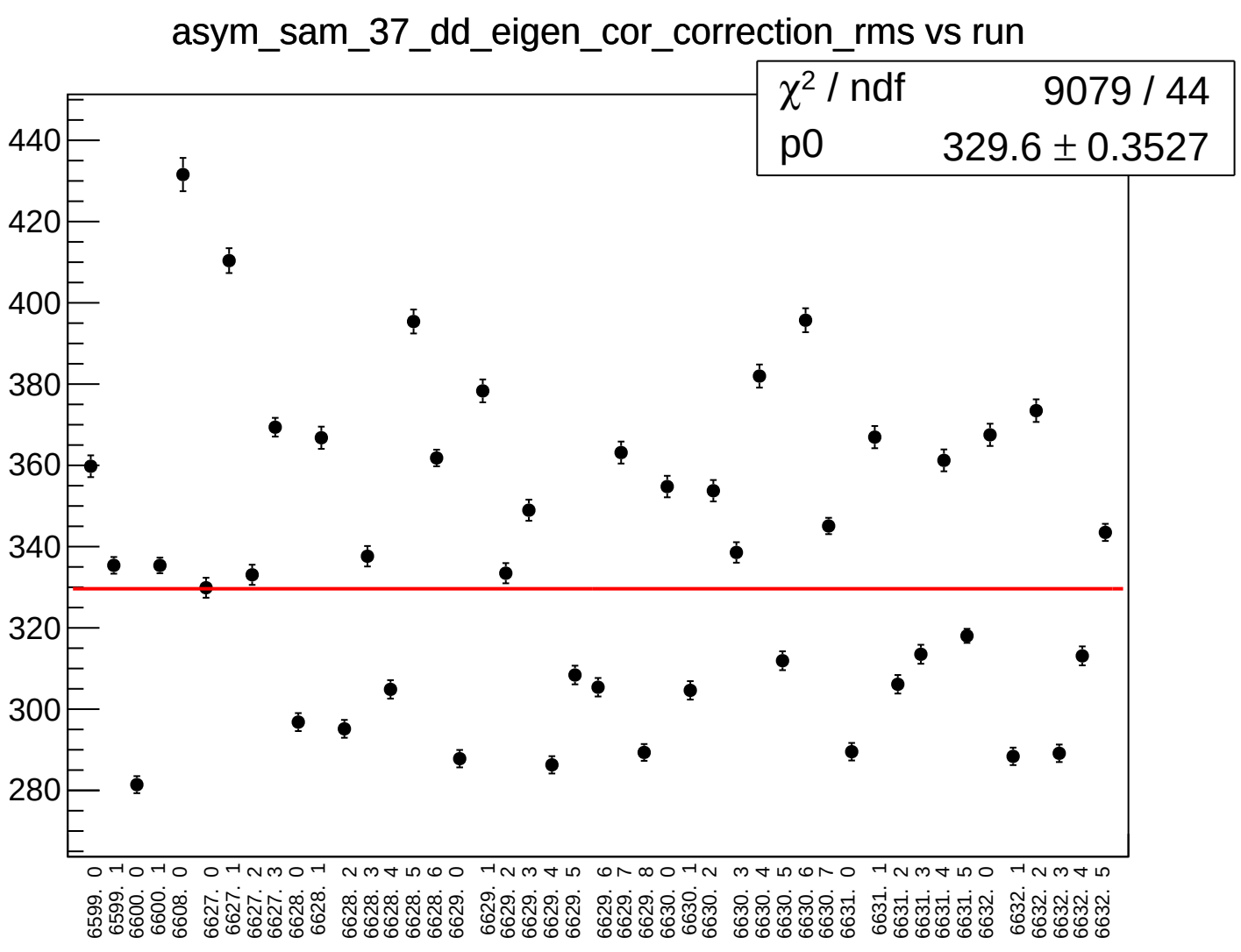
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 206.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.01038
Std Dev 0.9925
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 9079 / 44
p0 329.6 ± 0.3527
440
420
400
380
360
340
320
300
280
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6629. 0
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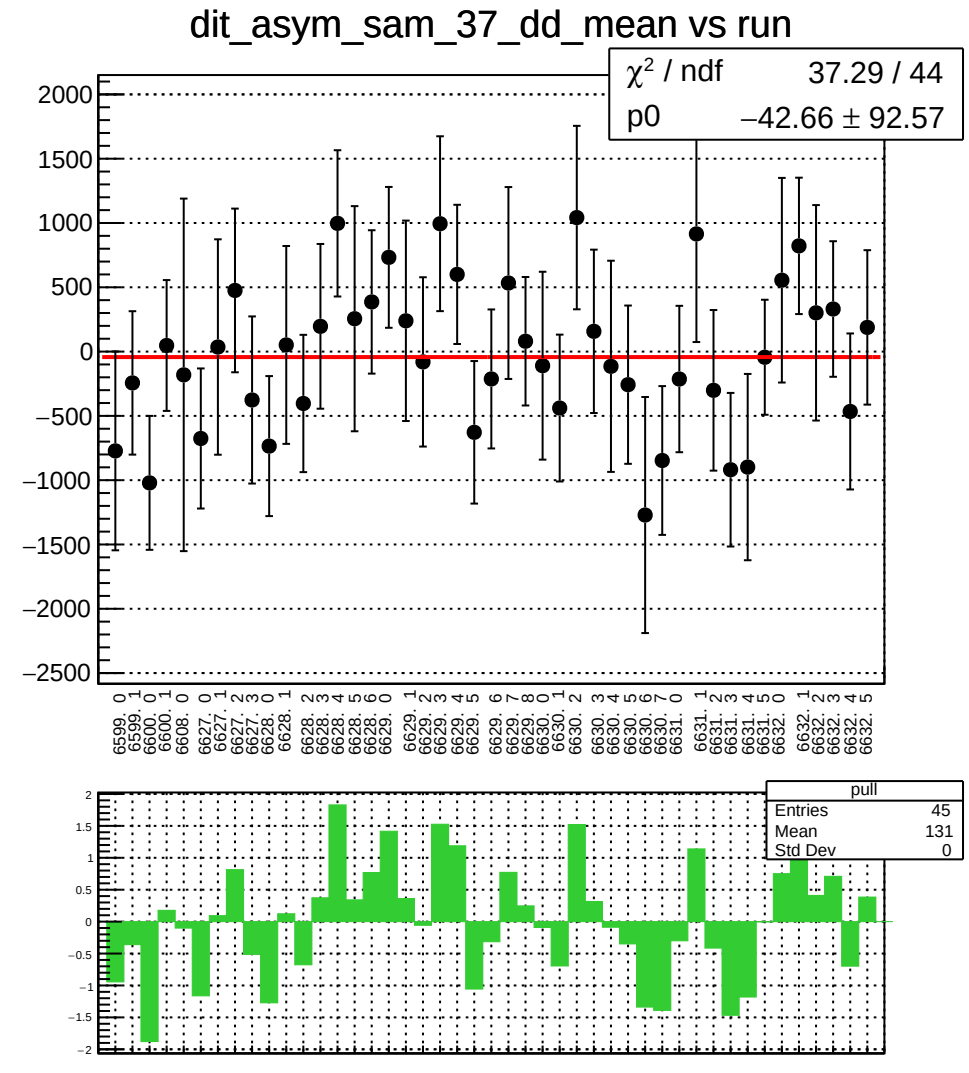
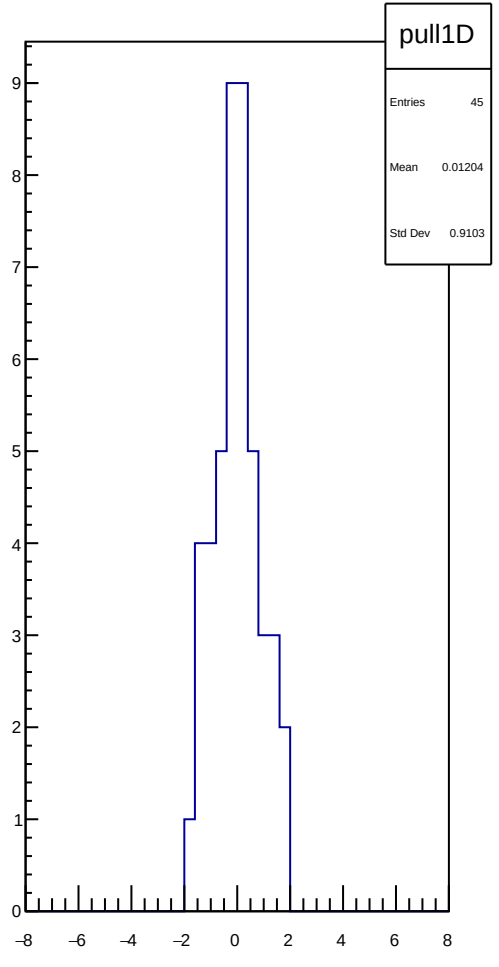
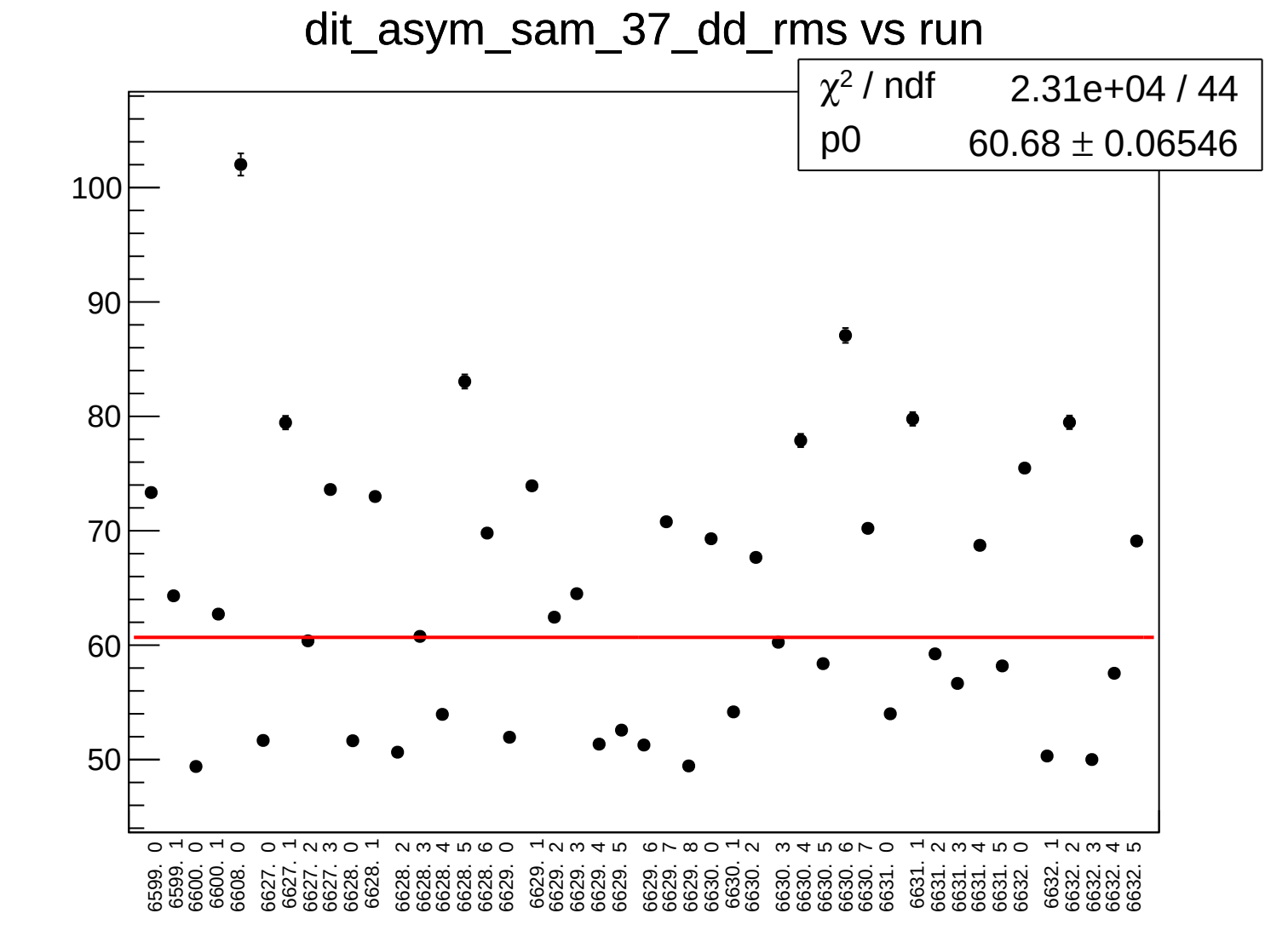
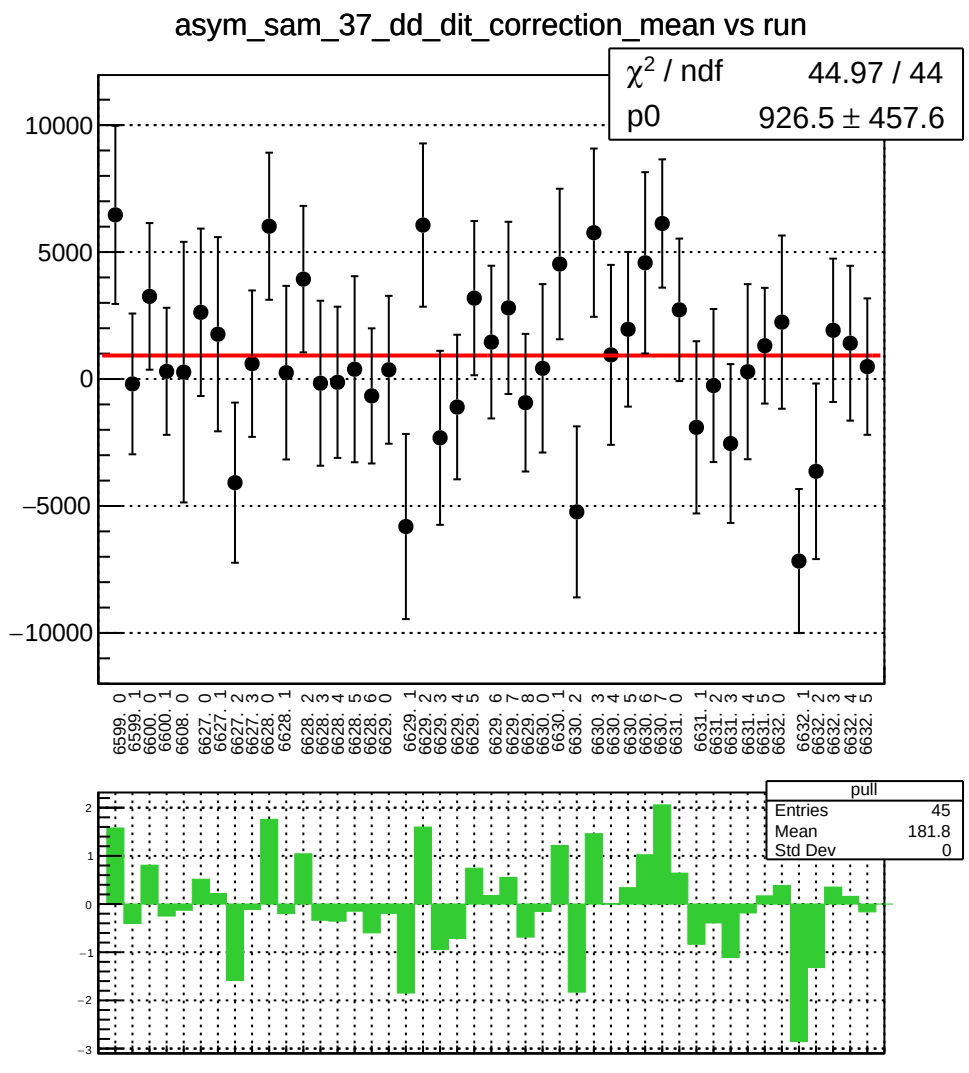
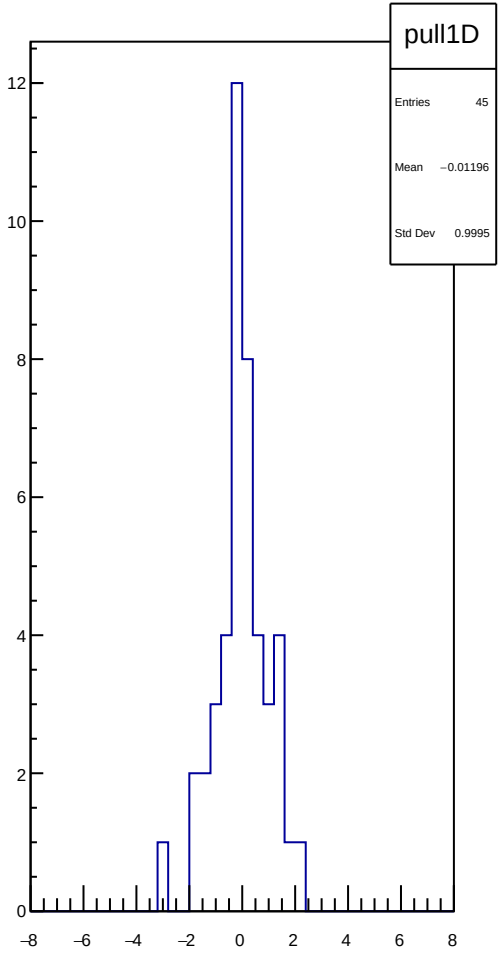
6632. 4
6632. 5

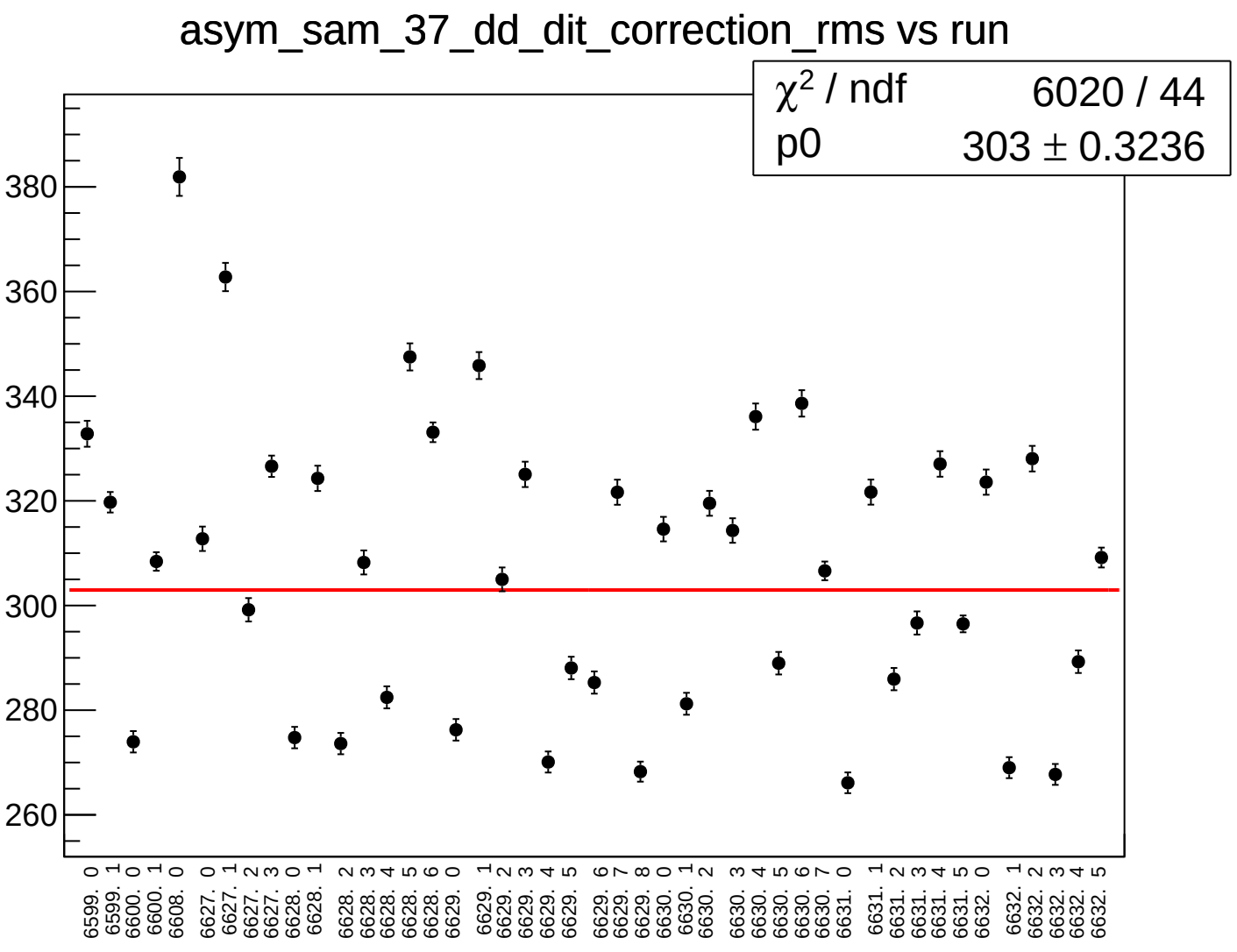

dit_asym_sam_37_dd_mean vs run
χ² / ndf 37.29 / 44
p0 −42.66 ± 92.57
pull
Entries 45
Mean 131
Std Dev 0

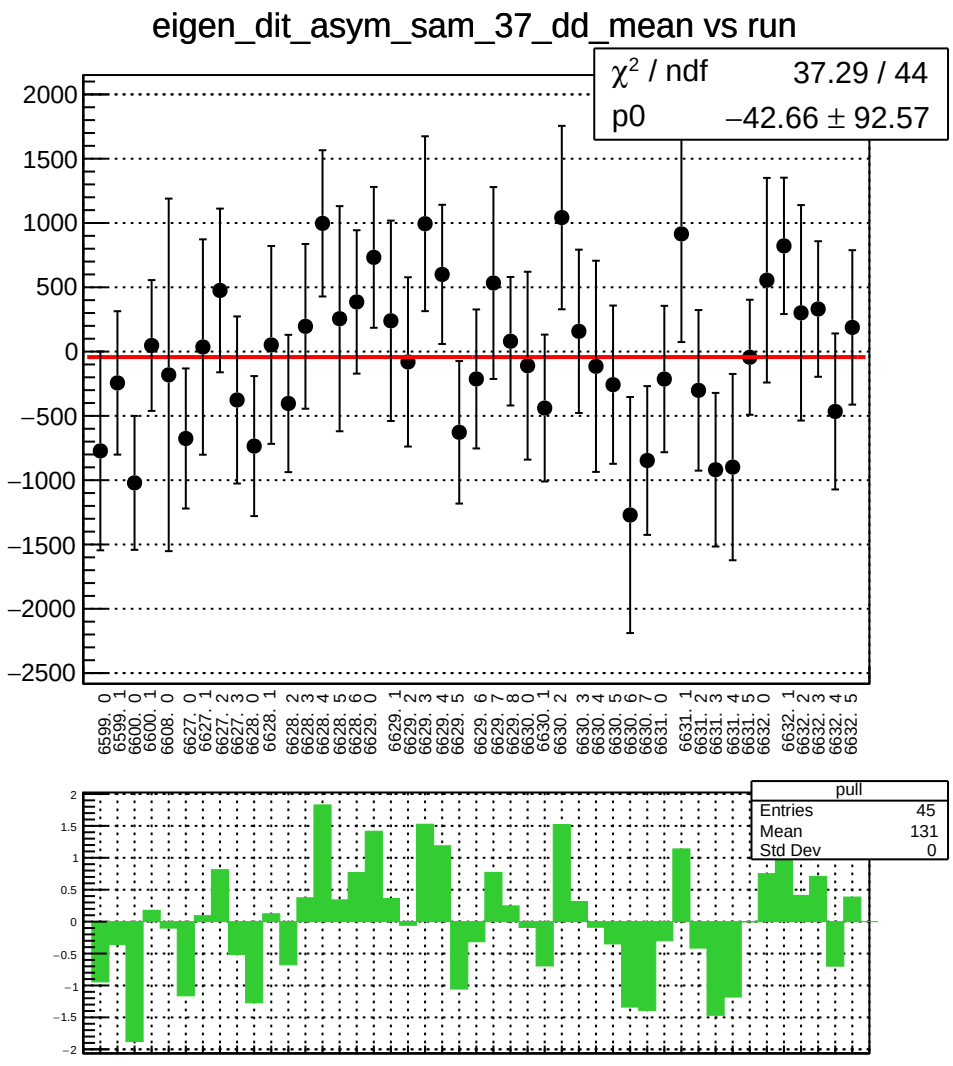

pull1D
Entries 45
Mean 0.01204
Std Dev 0.9103

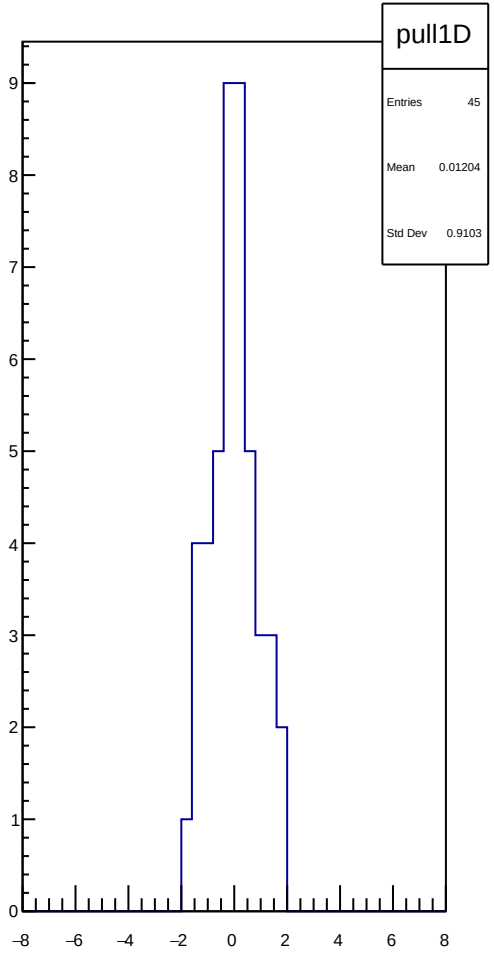

dit_asym_sam_37_dd_rms vs run
χ² / ndf 2.31e+04 / 44
p0 60.68 ± 0.06546
100
90
80
70
60
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

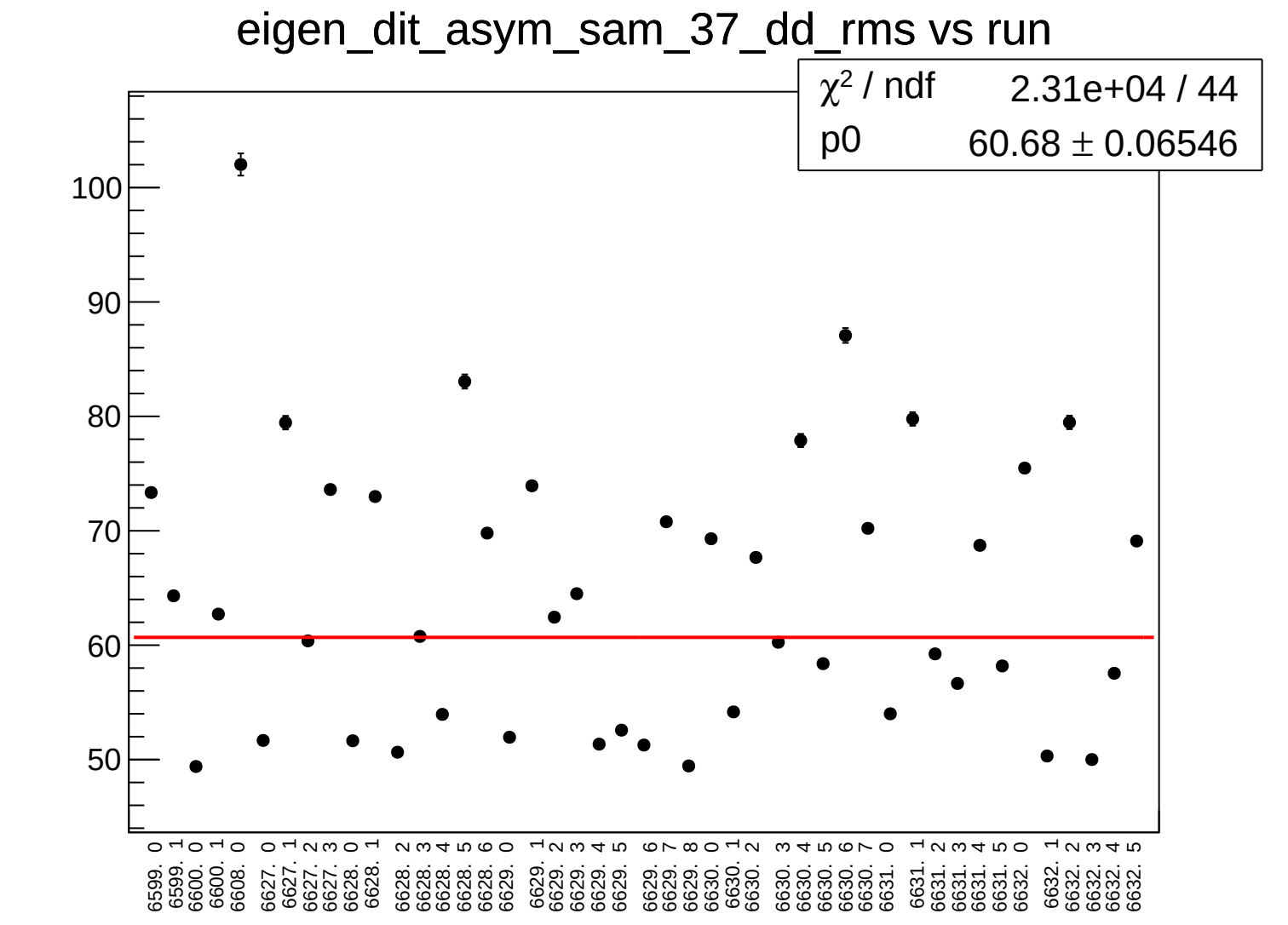

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 44.97 / 44
p0 926.5 ± 457.6
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 181.8
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.01196
Std Dev 0.9995
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 6020 / 44
p0 303 ± 0.3236
380
360
340
320
300
280
260
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 37.29 / 44
p0 −42.66 ± 92.57
pull
Entries 45
Mean 131
Std Dev 0


pull1D
Entries 45
Mean 0.01204
Std Dev 0.9103


eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 2.31e+04 / 44
p0 60.68 ± 0.06546
100
90
80
70
60
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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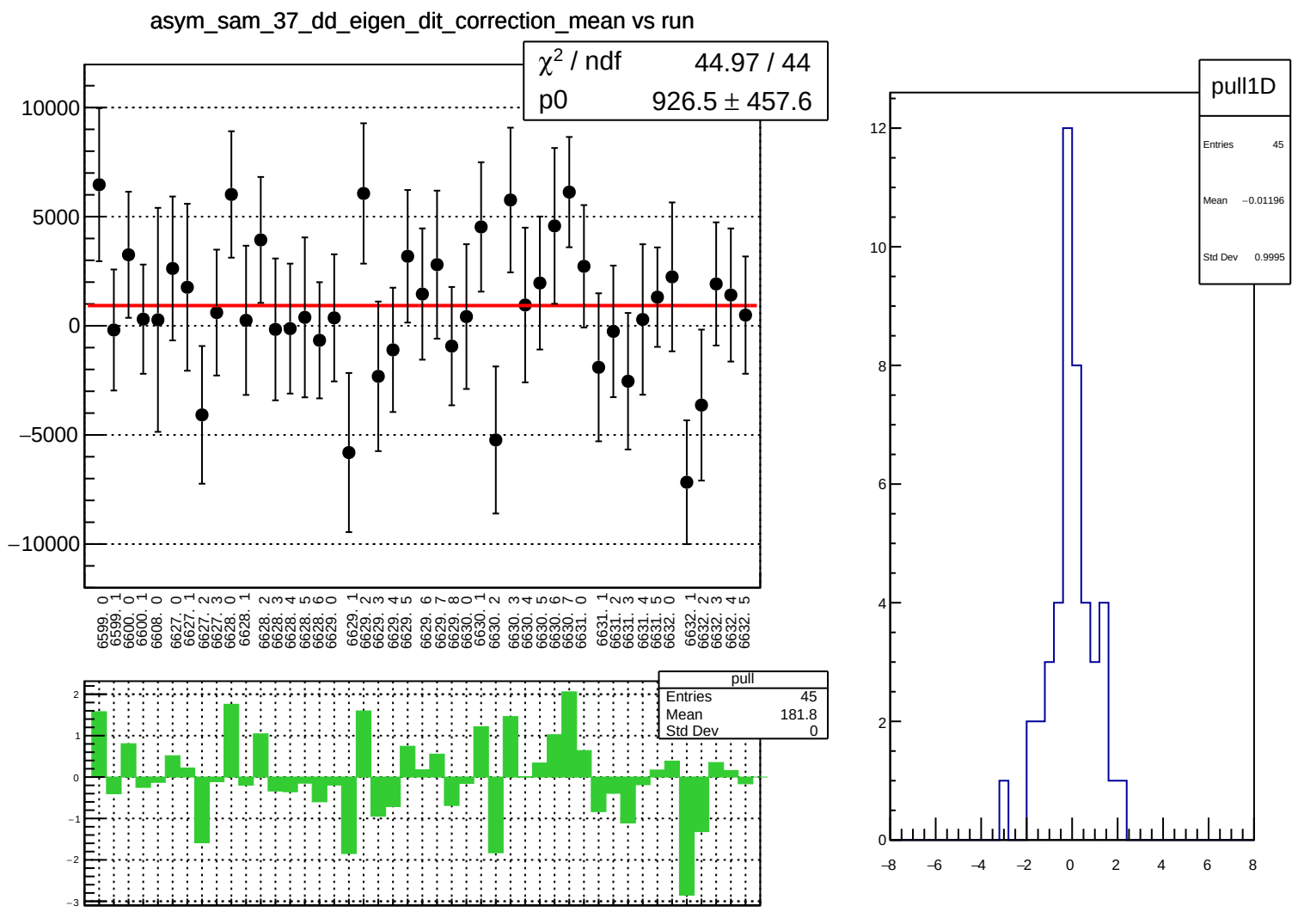
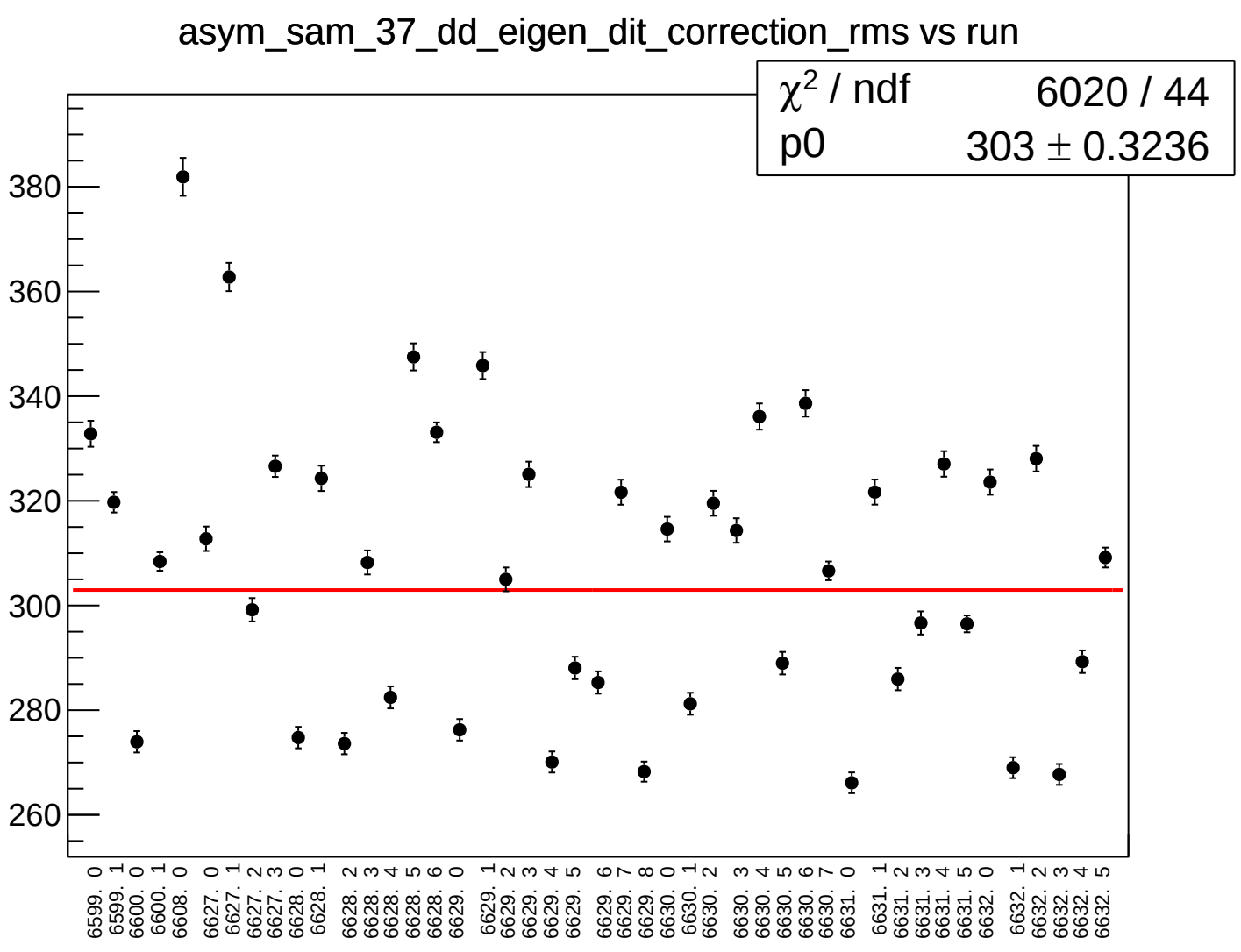
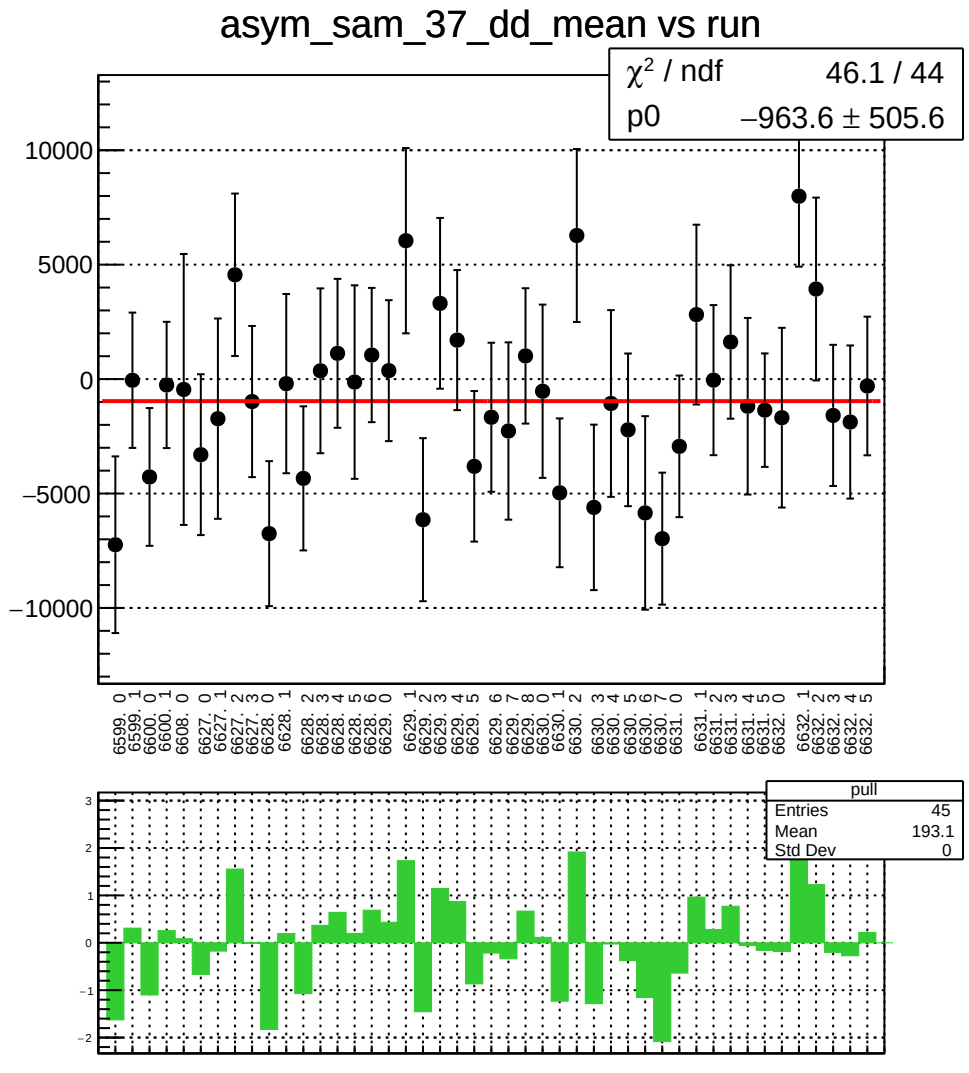
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_37_dd_eigen_dit_correction_mean vs run
$\chi^2$ / ndf 44.97 / 44
p0 926.5 ± 457.6
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 181.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.01196
Std Dev 0.9995
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 6020 / 44
p0 303 ± 0.3236
380
360
340
320
300
280
260
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_37_dd_mean vs run
χ² / ndf 46.1 / 44
p0 −963.6 ± 505.6
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
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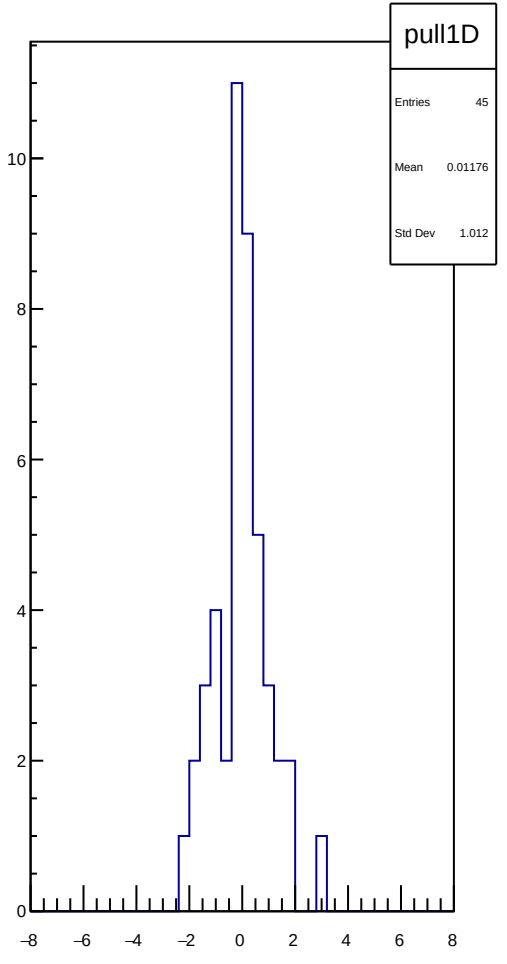
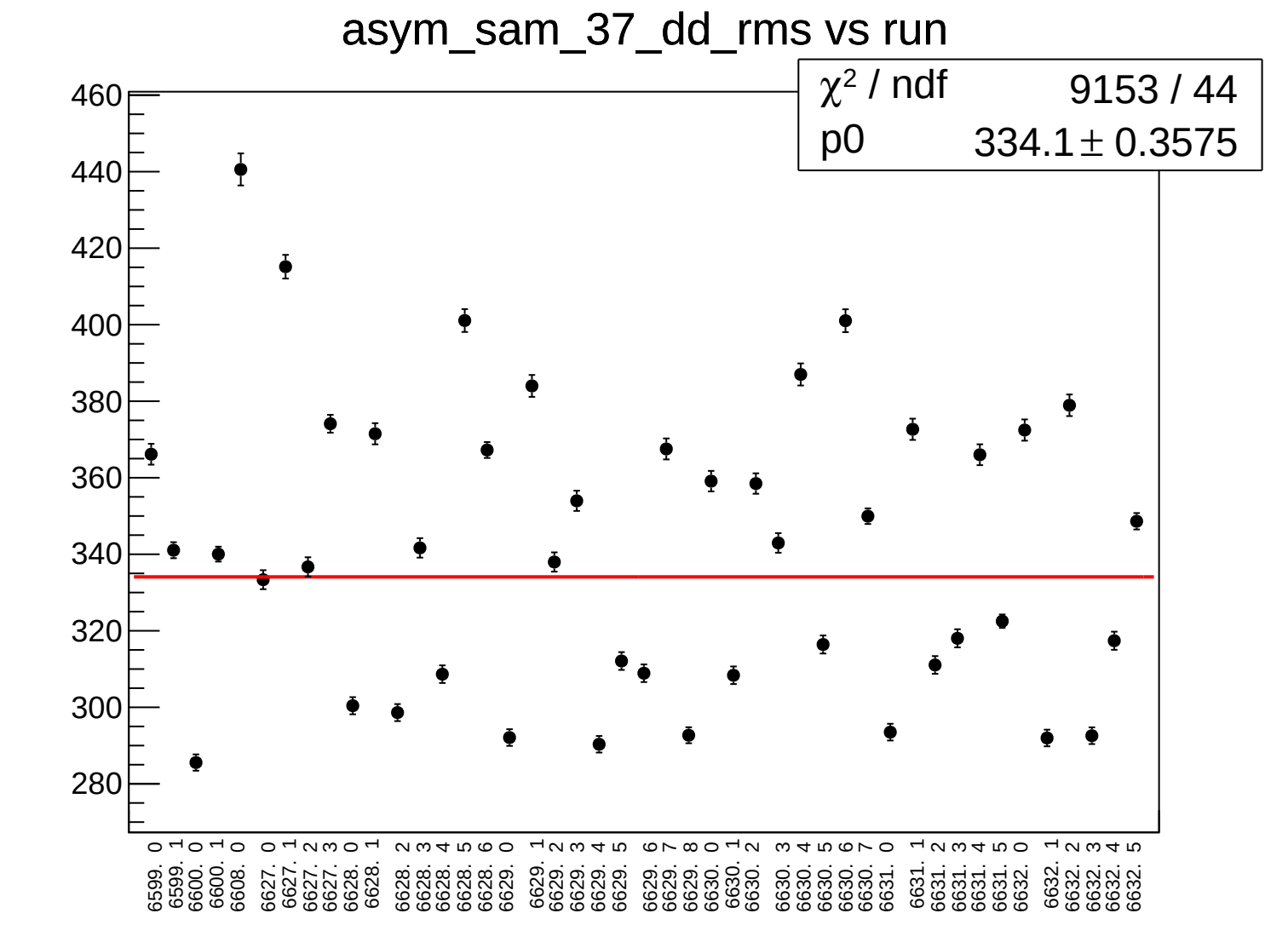
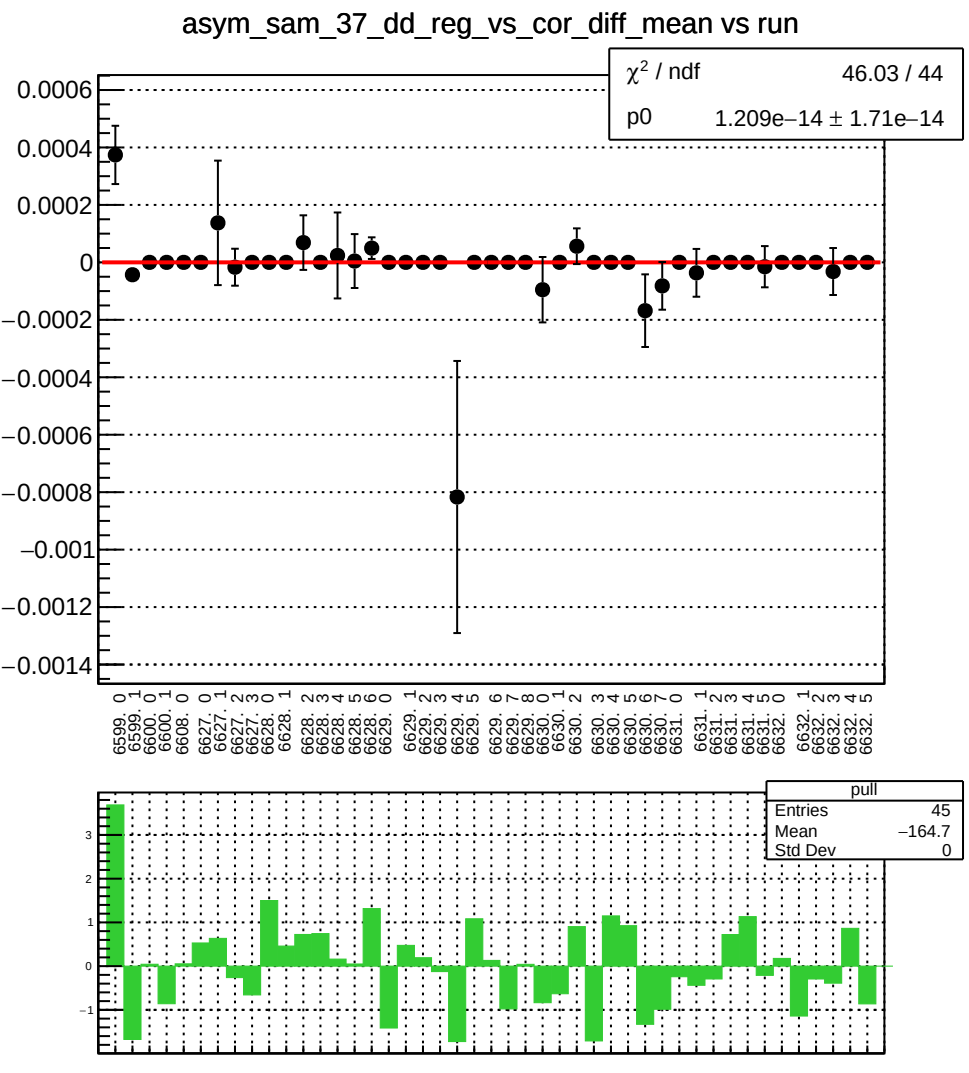
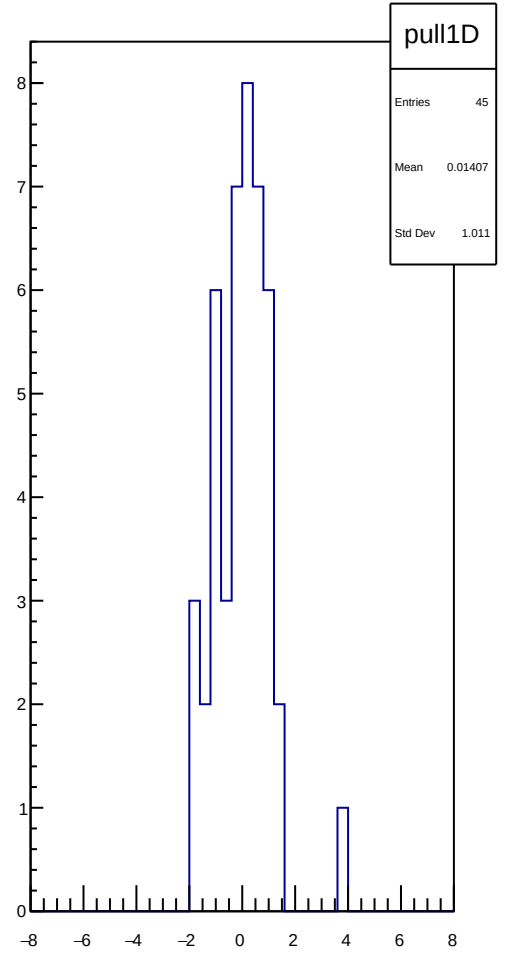
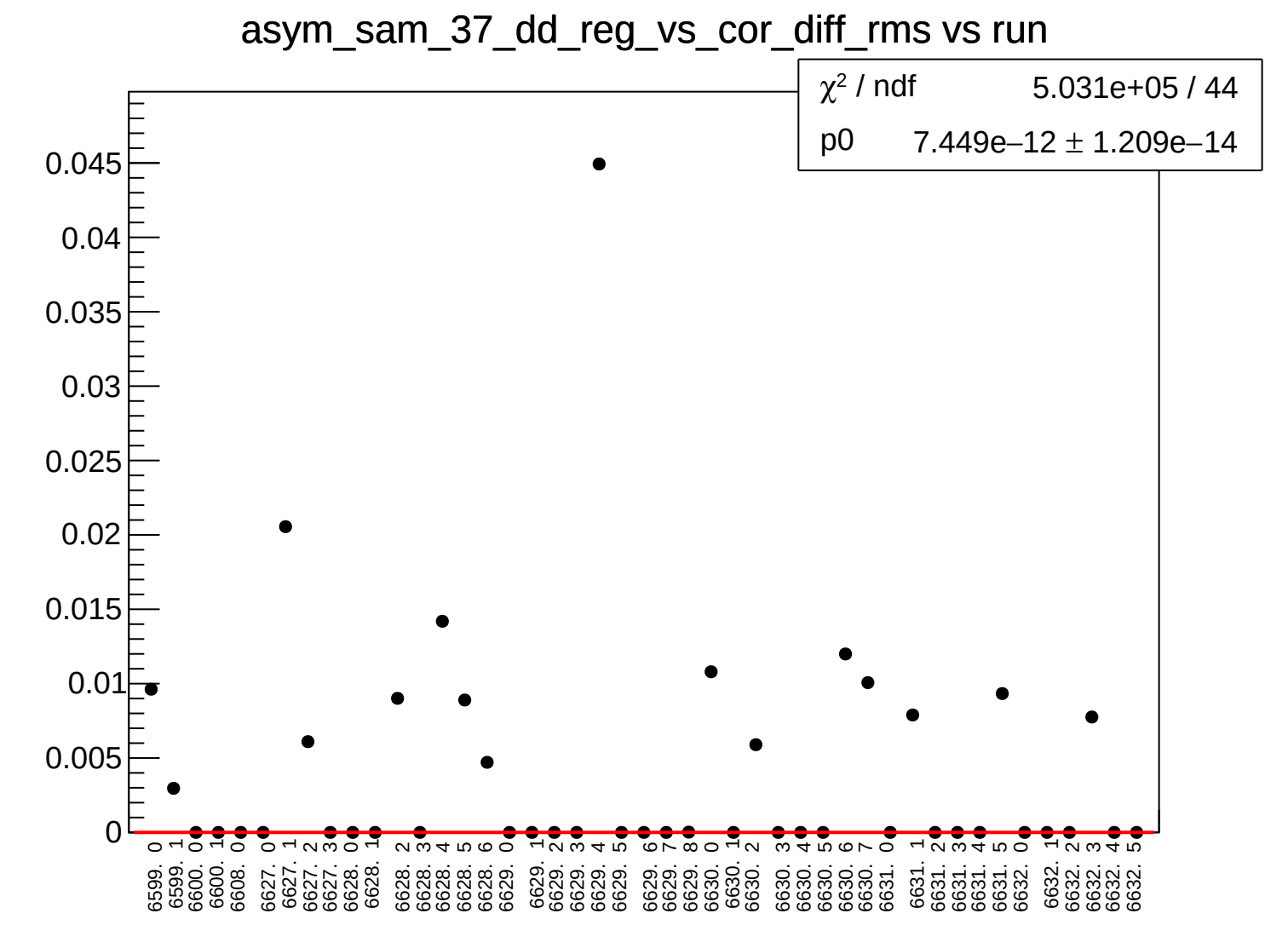
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 193.1
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.01176
Std Dev 1.012
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_dd_rms vs run
χ² / ndf 9153 / 44
p0 334.1 ± 0.3575
460
440
420
400
380
360
340
320
300
280
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 46.03 / 44
p0 1.209e−14 ± 1.71e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
−0.0014
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −164.7
Std Dev 0
3
2
1
0
−1


pull1D
Entries 45
Mean 0.01407
Std Dev 1.011
8
7
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 5.031e+05 / 44
p0 7.449e−12 ± 1.209e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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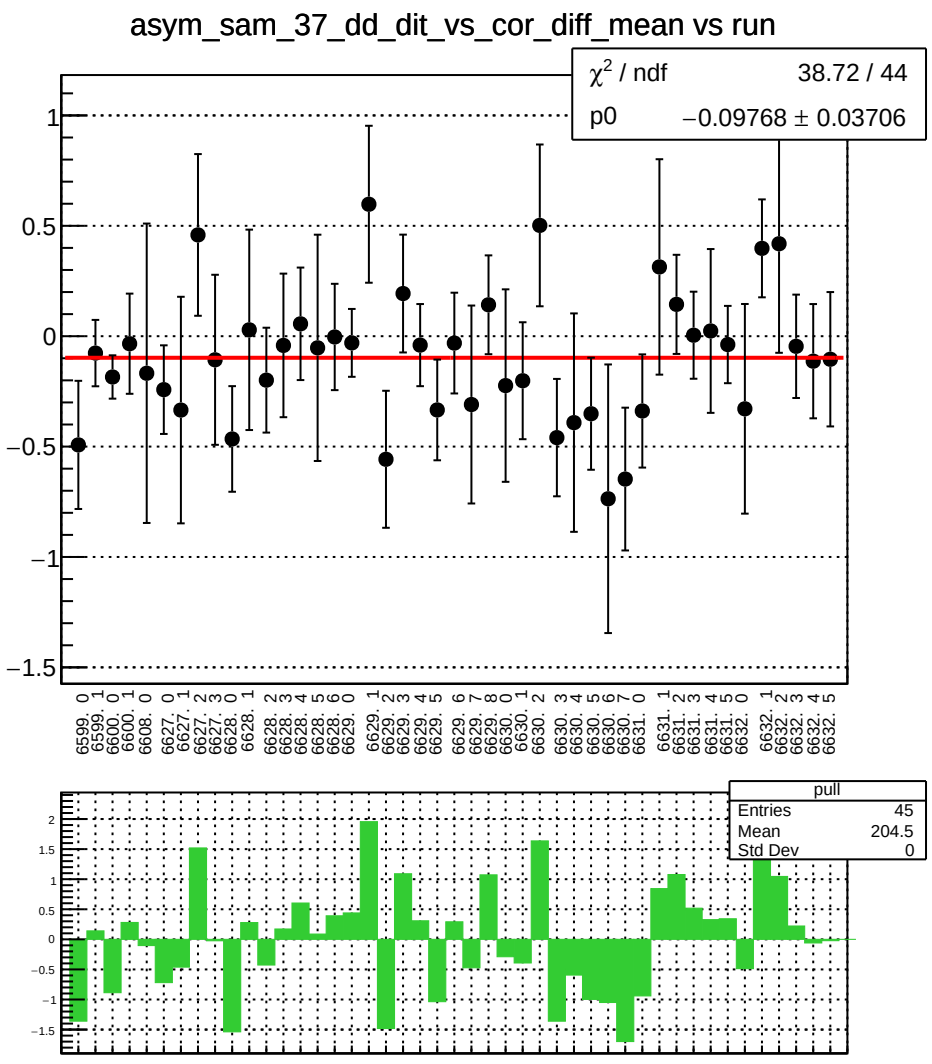
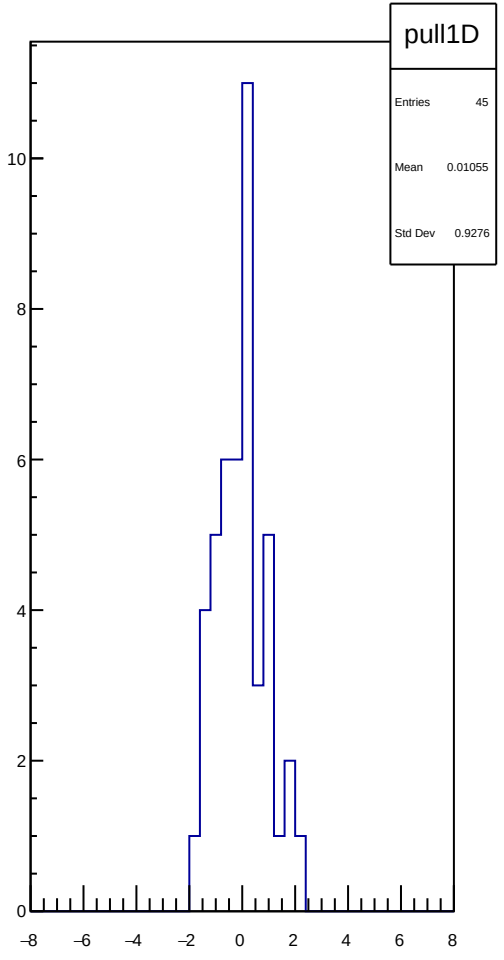
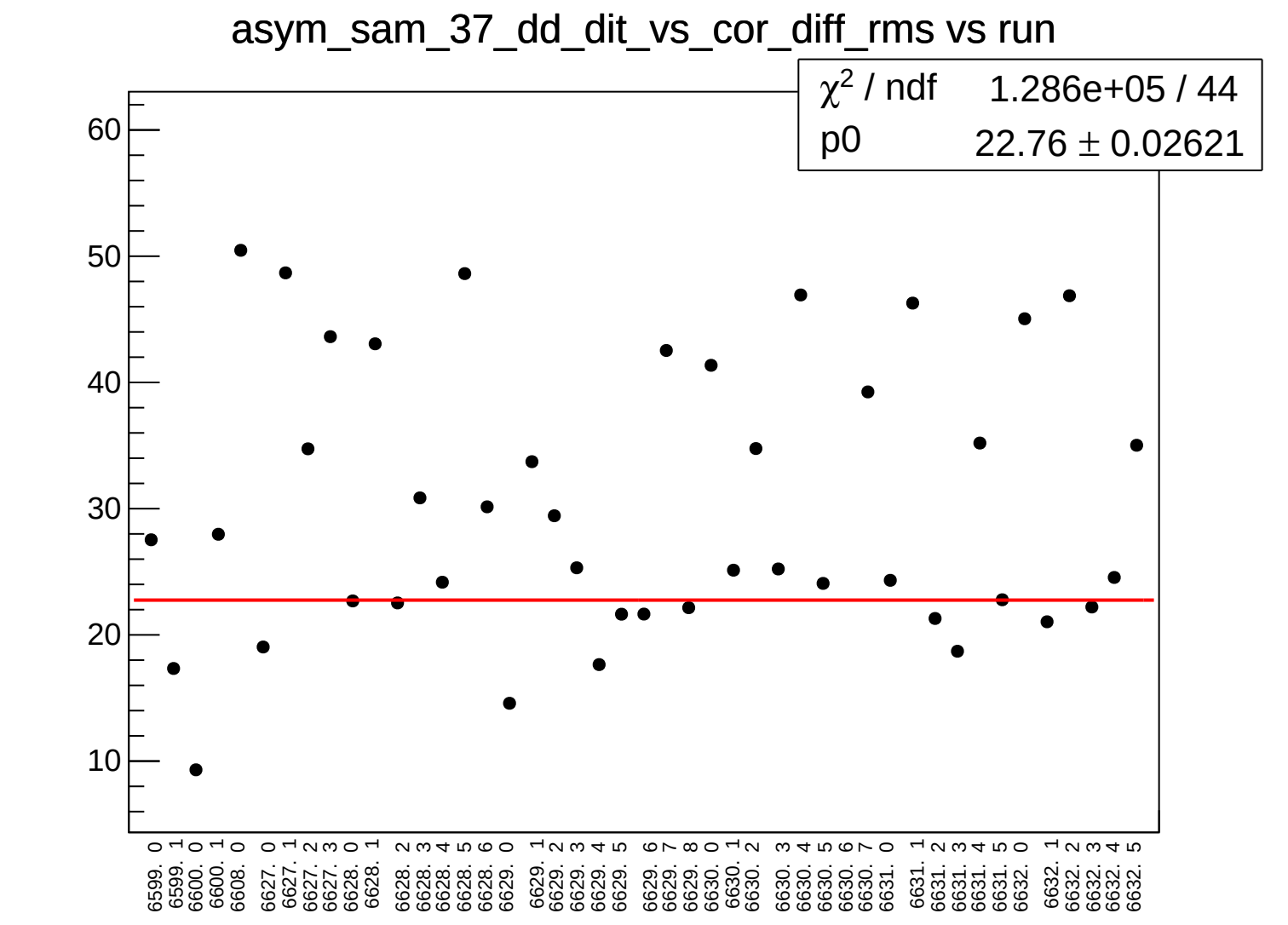
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 38.72 / 44
p0 −0.09768 ± 0.03706
pull
Entries 45
Mean 204.5
Std Dev 0


pull1D
Entries 45
Mean 0.01055
Std Dev 0.9276


asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.286e+05 / 44
p0 22.76 ± 0.02621
60
50
40
30
20
10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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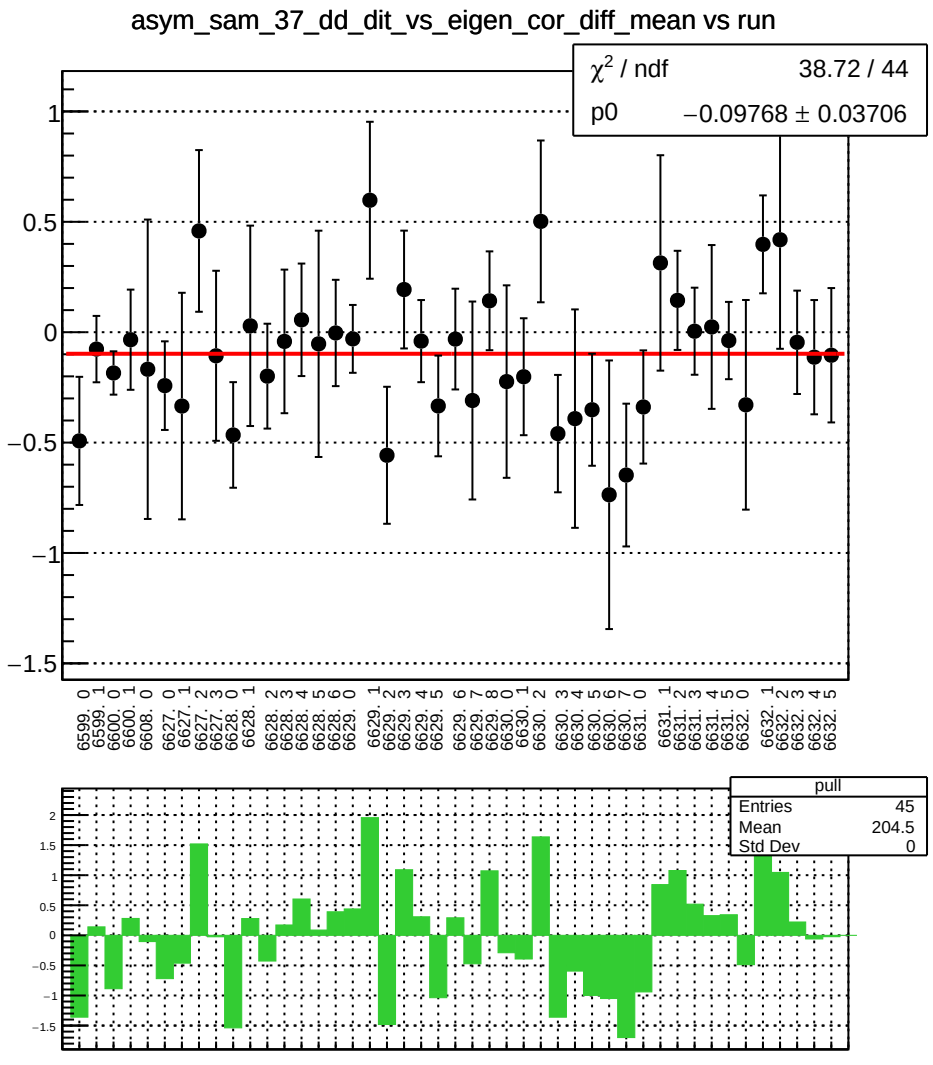
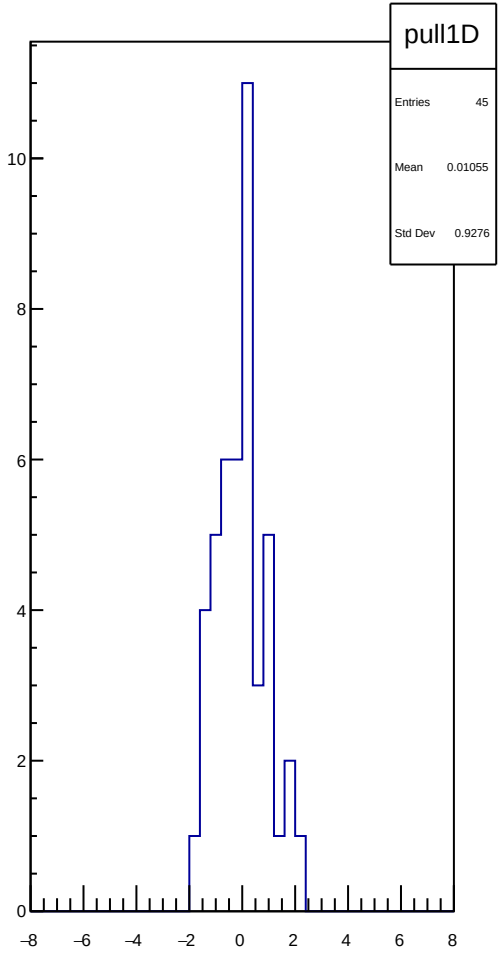
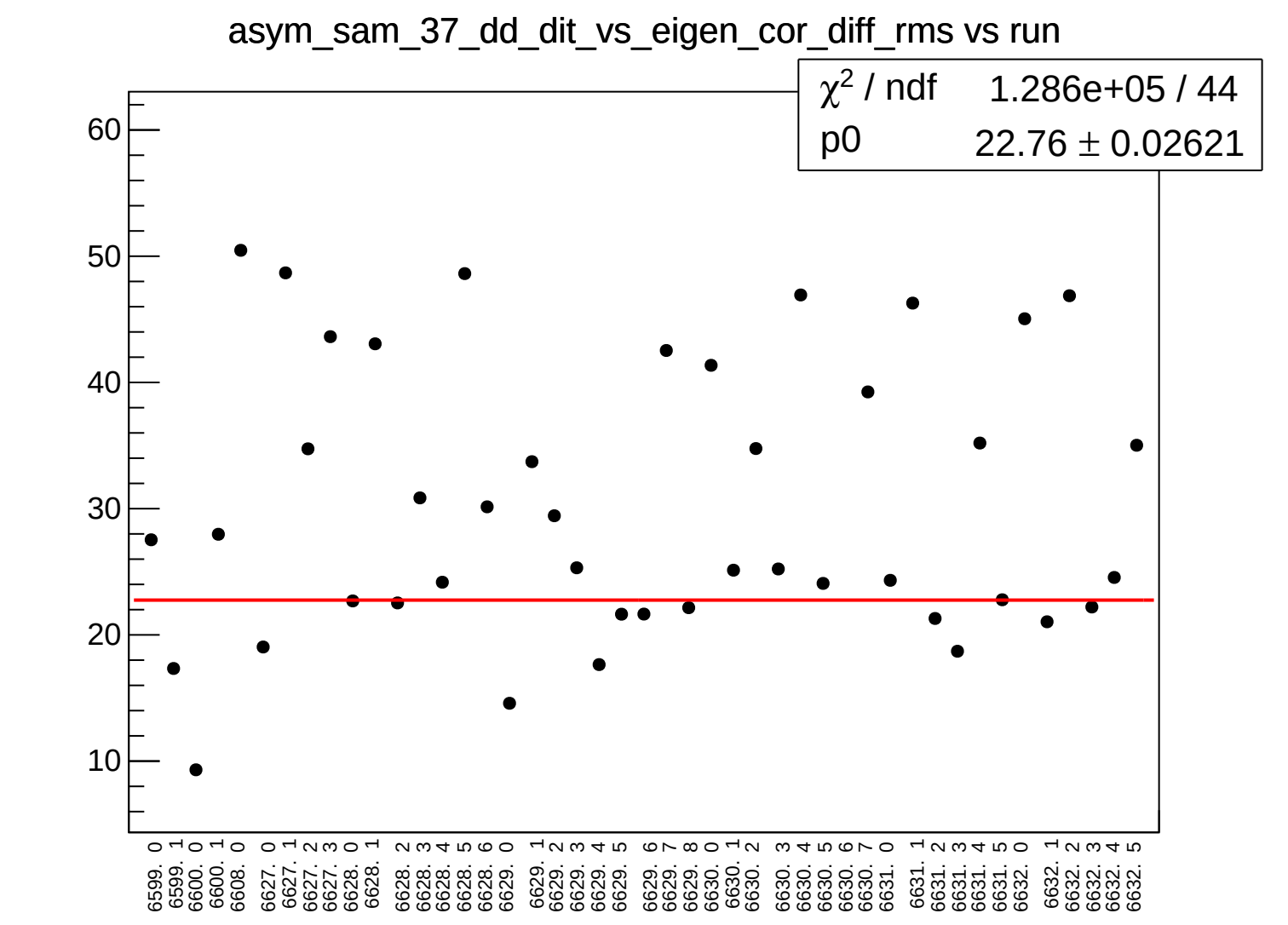
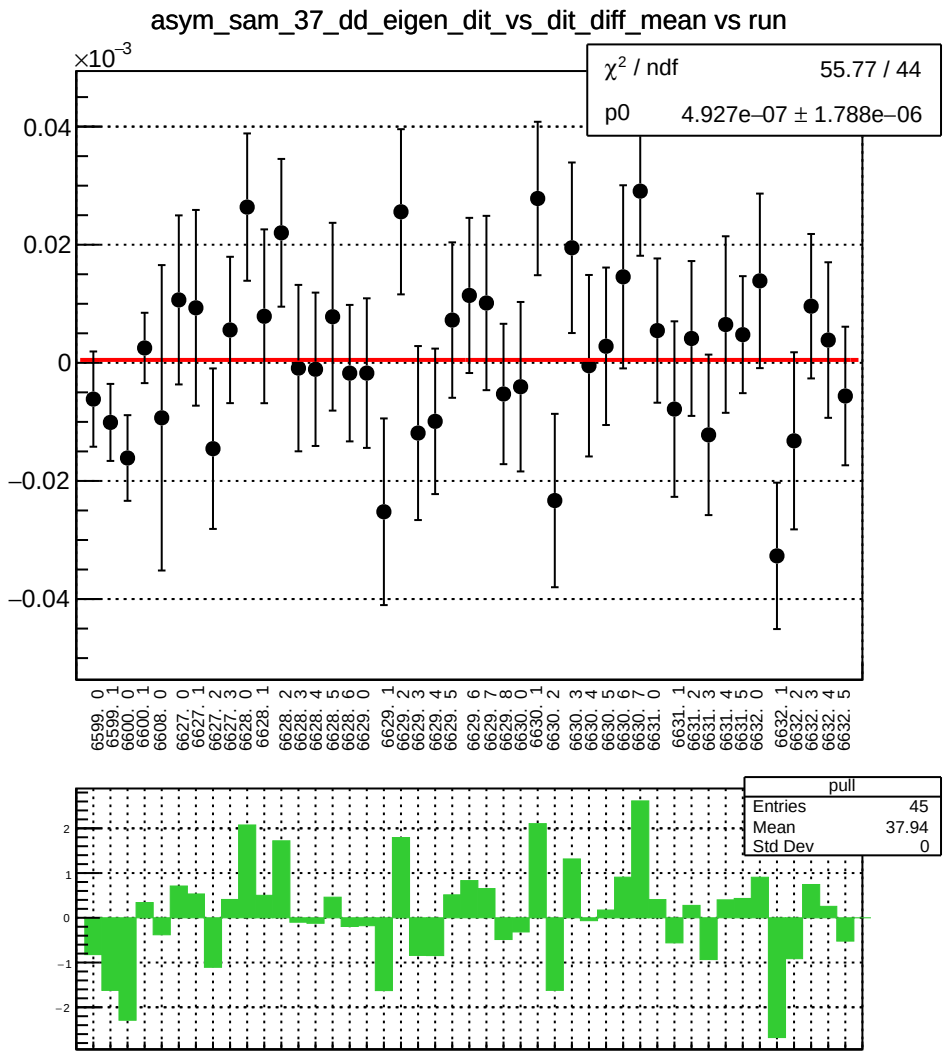
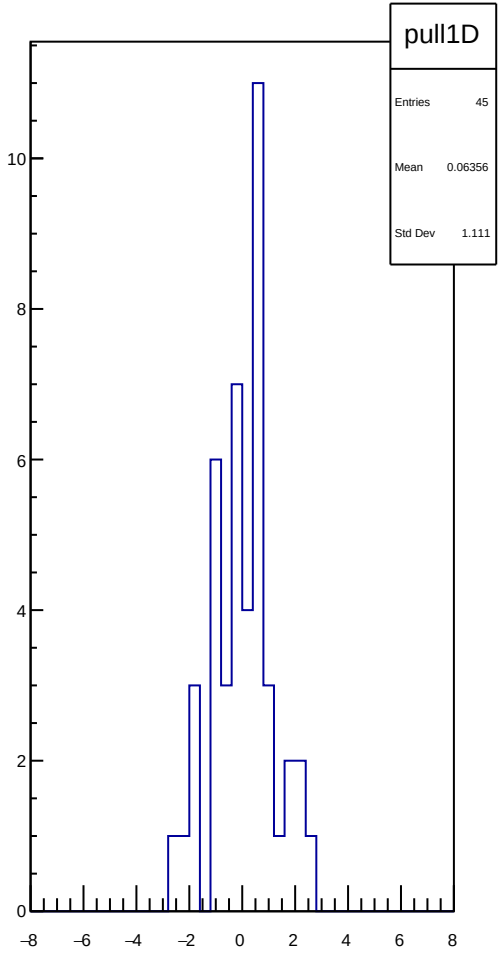
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

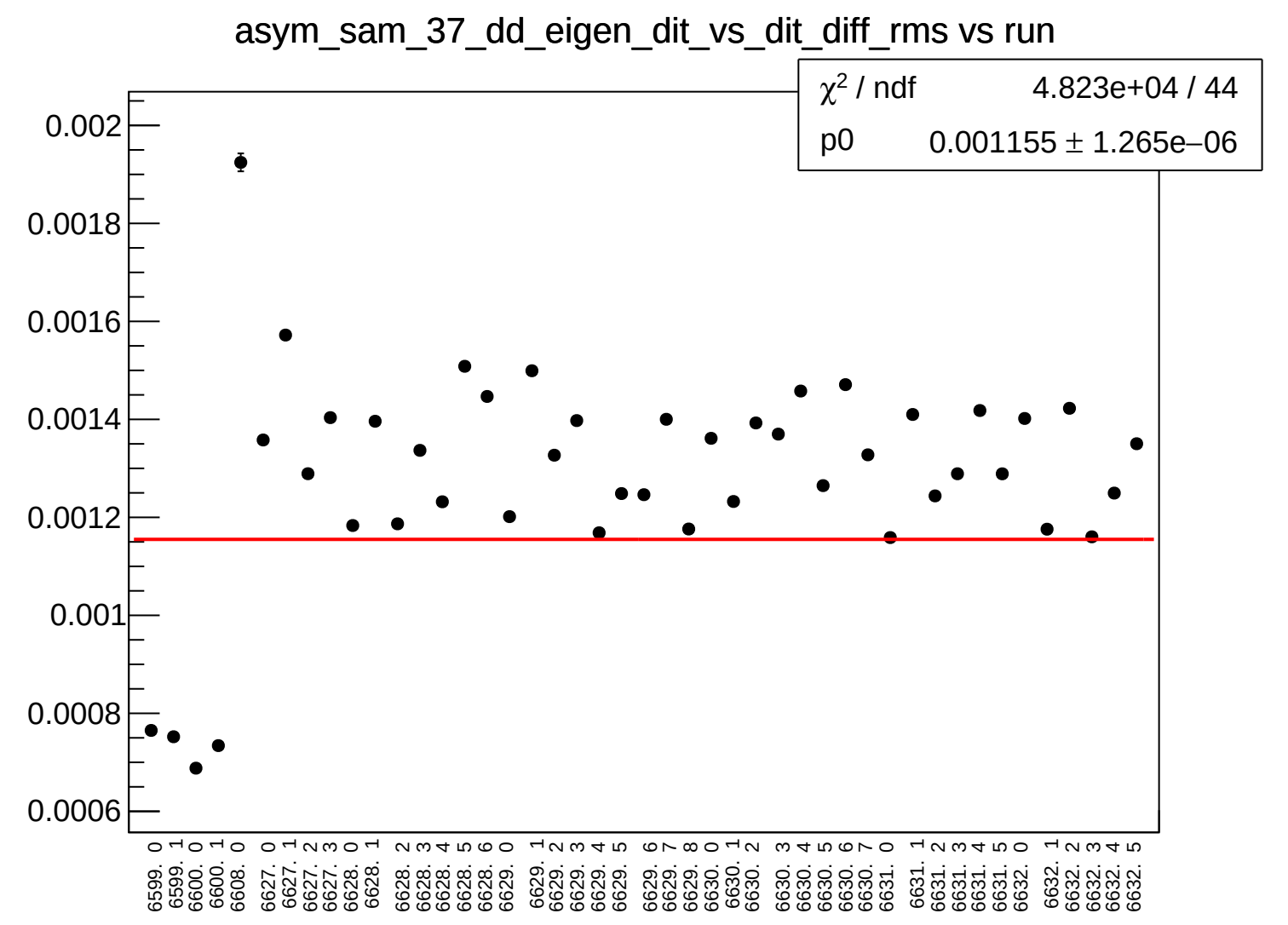

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.72 / 44
p0 −0.09768 ± 0.03706
pull
Entries 45
Mean 204.5
Std Dev 0

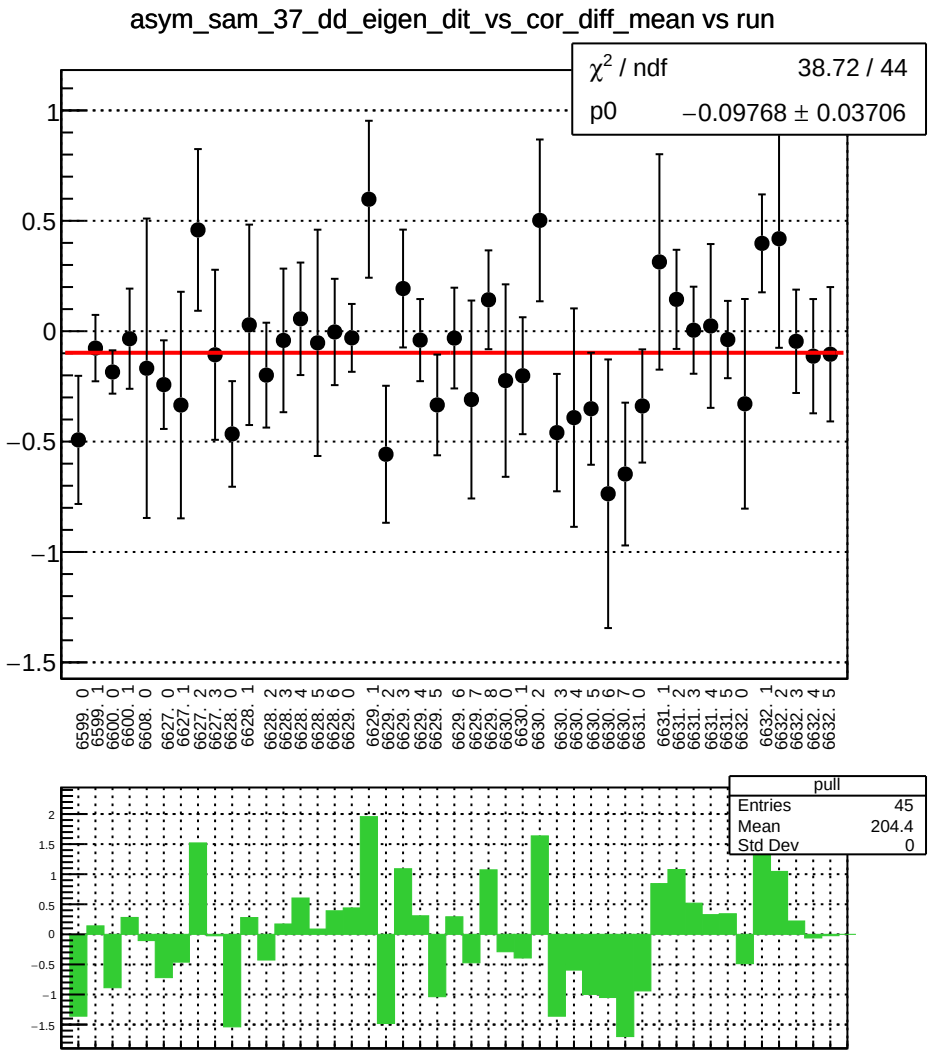

pull1D
Entries 45
Mean 0.01055
Std Dev 0.9276

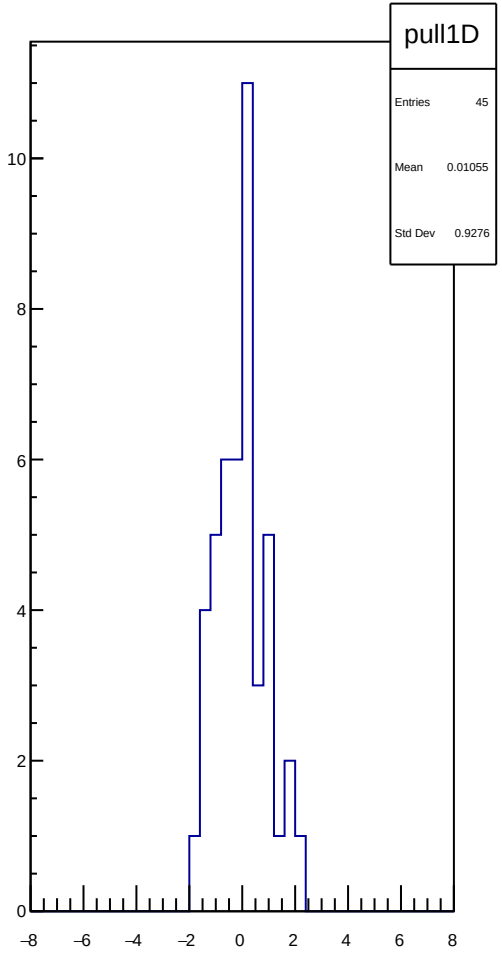

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.286e+05 / 44
p0 22.76 ± 0.02621
60
50
40
30
20
10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

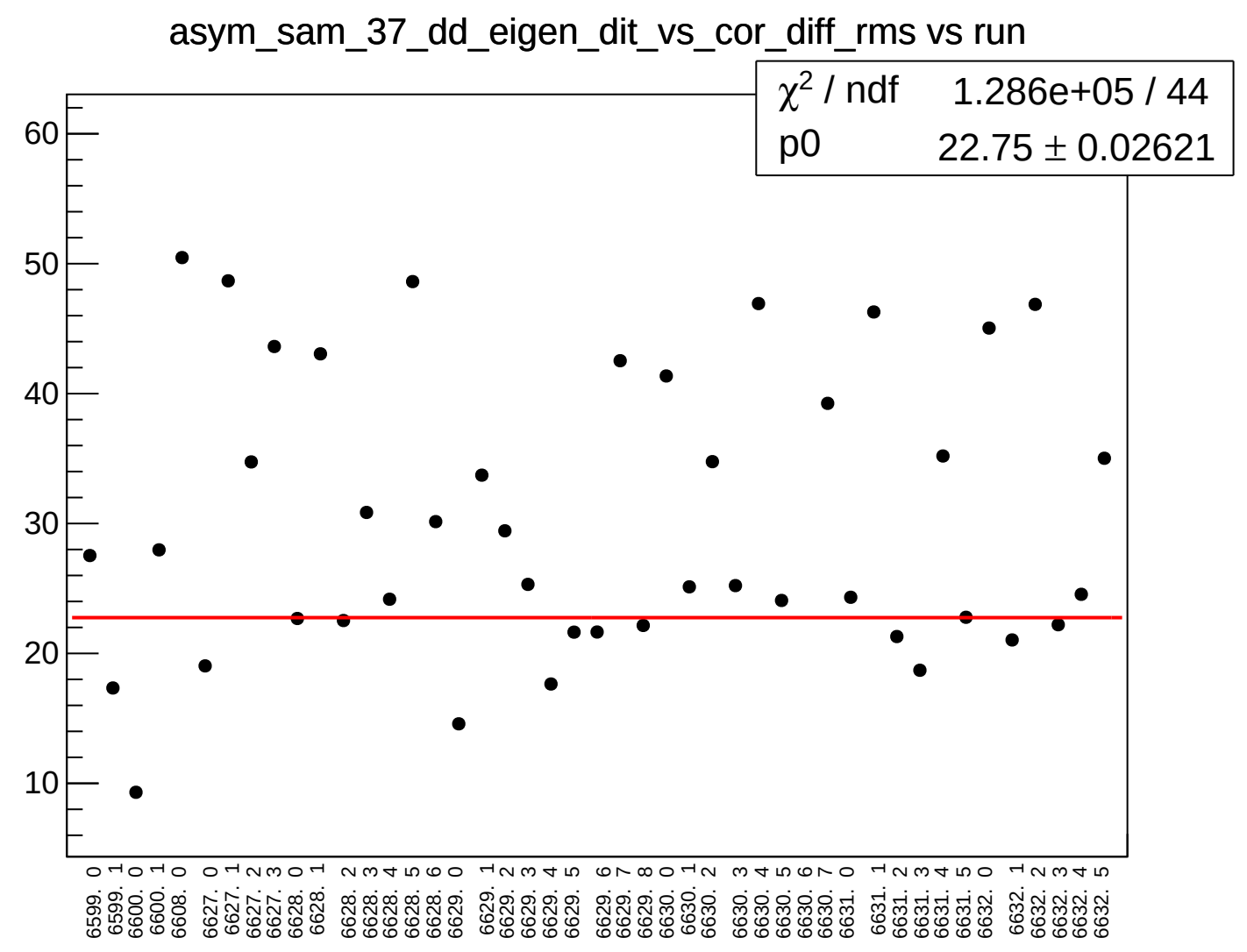

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 55.77 / 44
p0 4.927e−07 ± 1.788e−06
0.04
0.02
0
−0.02
−0.04
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 37.94
Std Dev 0
2
1
0
−1
−2

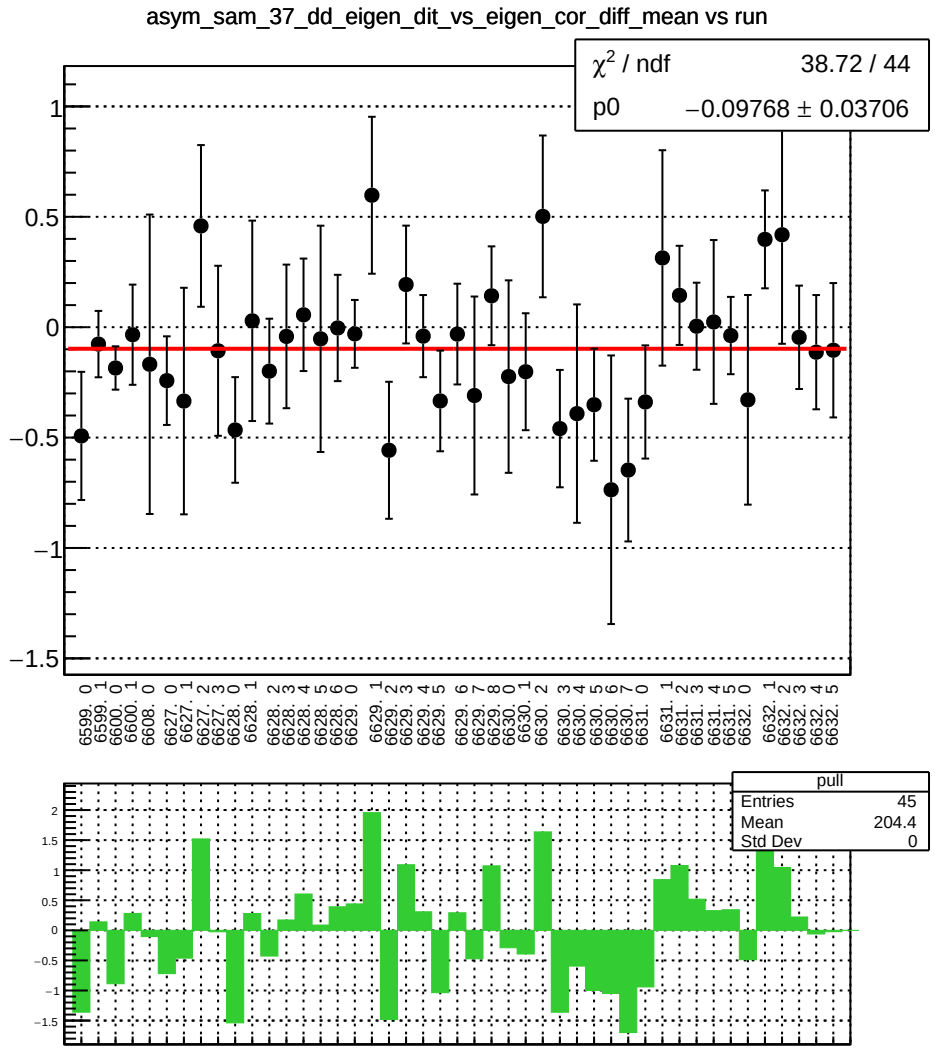

pull1D
Entries 45
Mean 0.06356
Std Dev 1.111
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

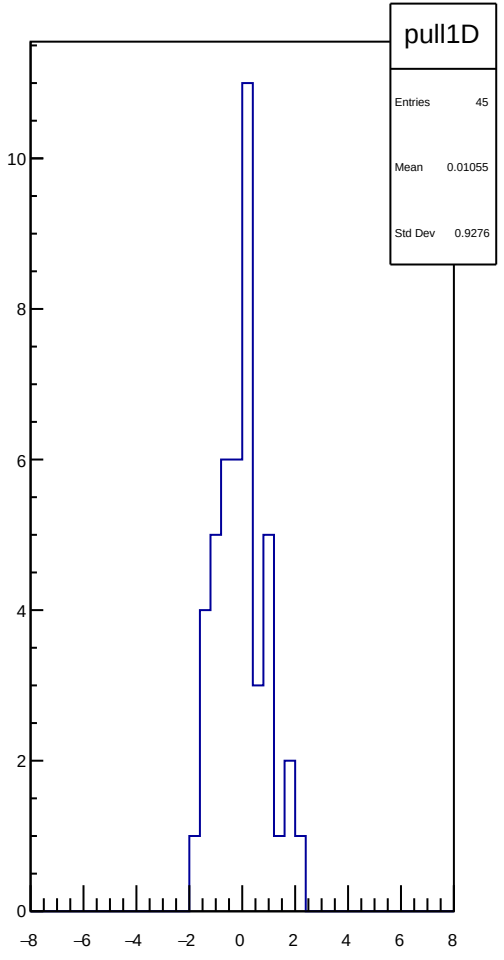

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.823e+04 / 44
p0 0.001155 ± 1.265e−06
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

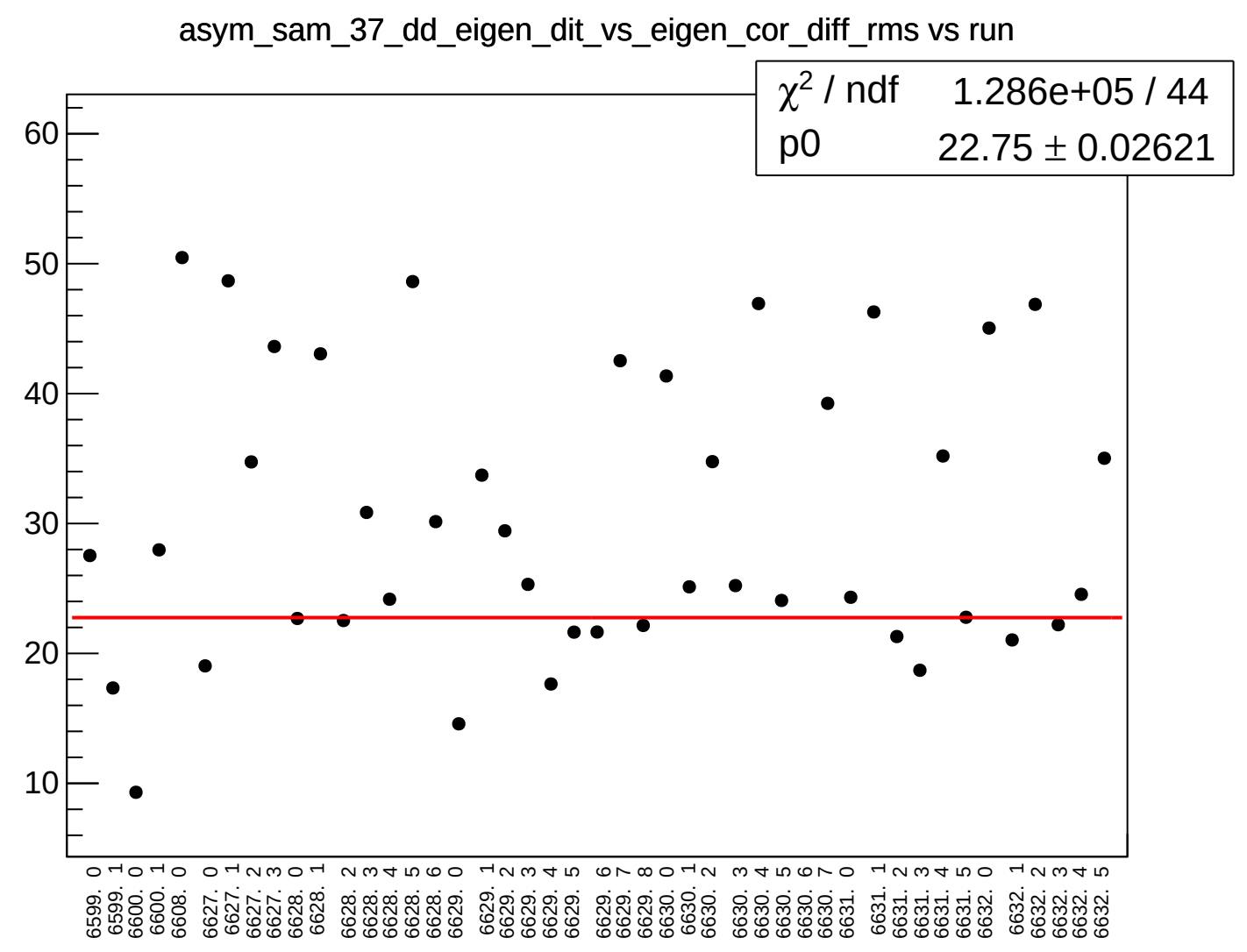

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 38.72 / 44
p0 −0.09768 ± 0.03706
pull
Entries 45
Mean 204.4
Std Dev 0

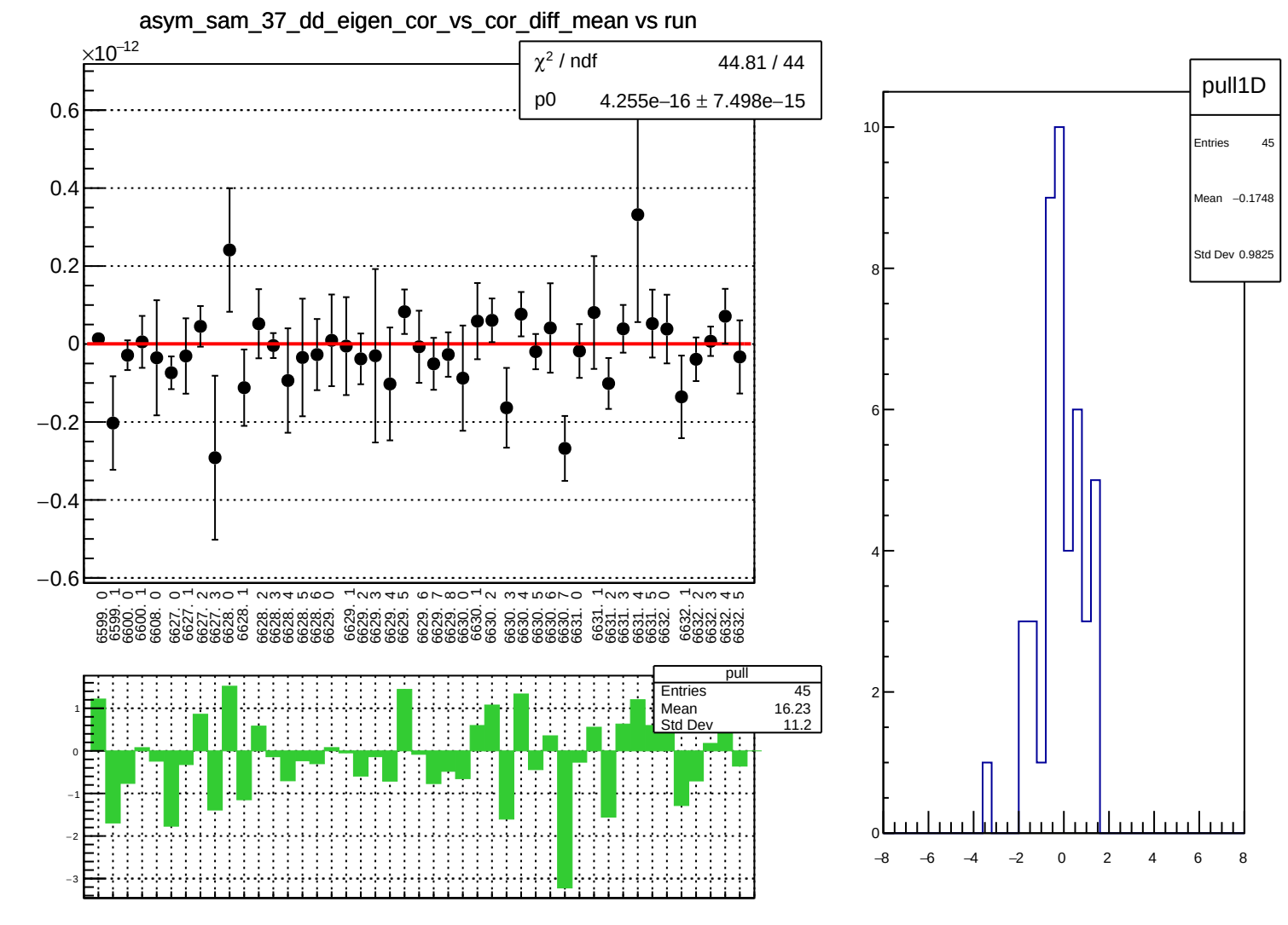

pull1D
Entries 45
Mean 0.01055
Std Dev 0.9276

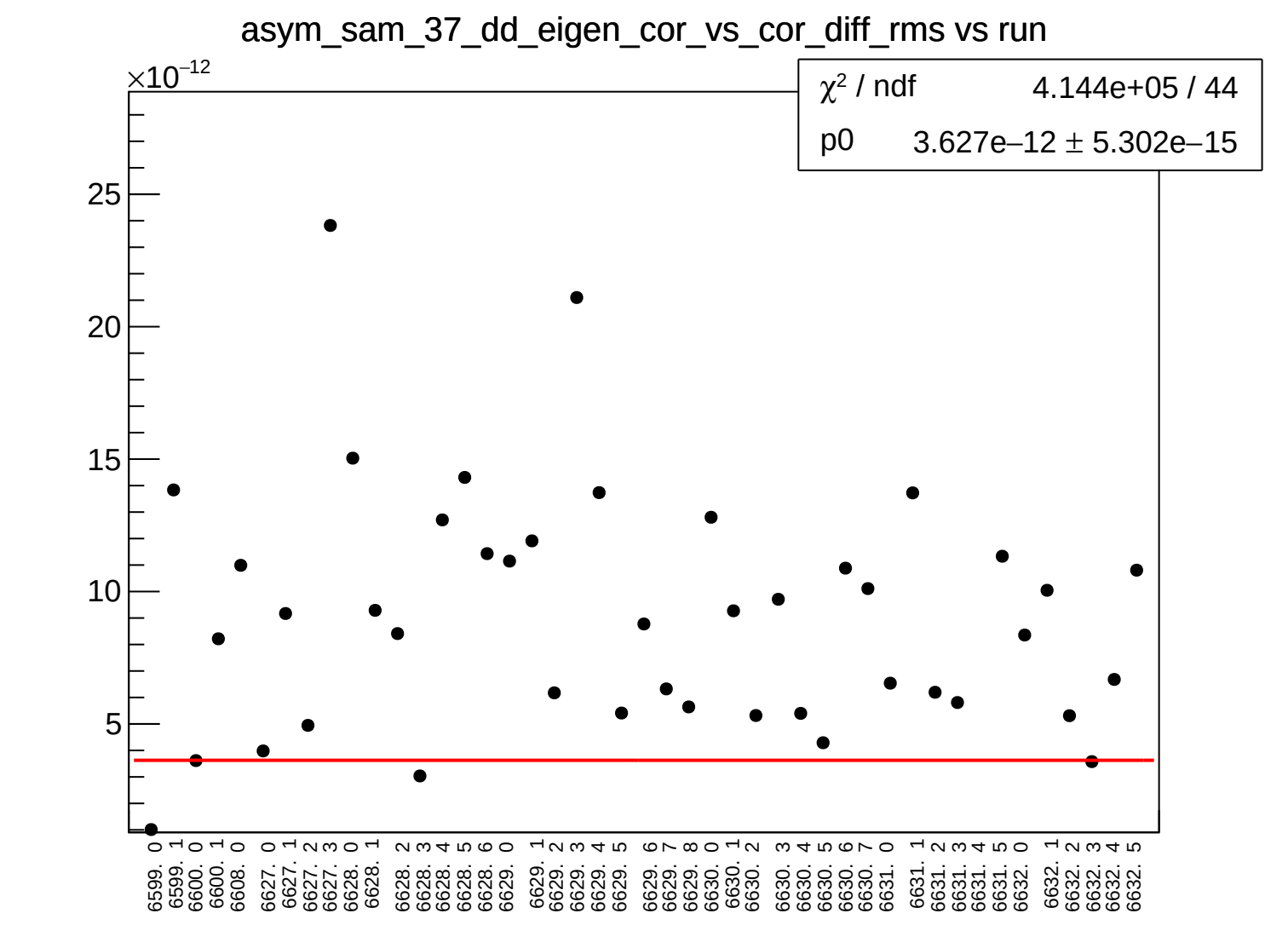

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.286e+05 / 44
p0 22.75 ± 0.02621
60
50
40
30
20
10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

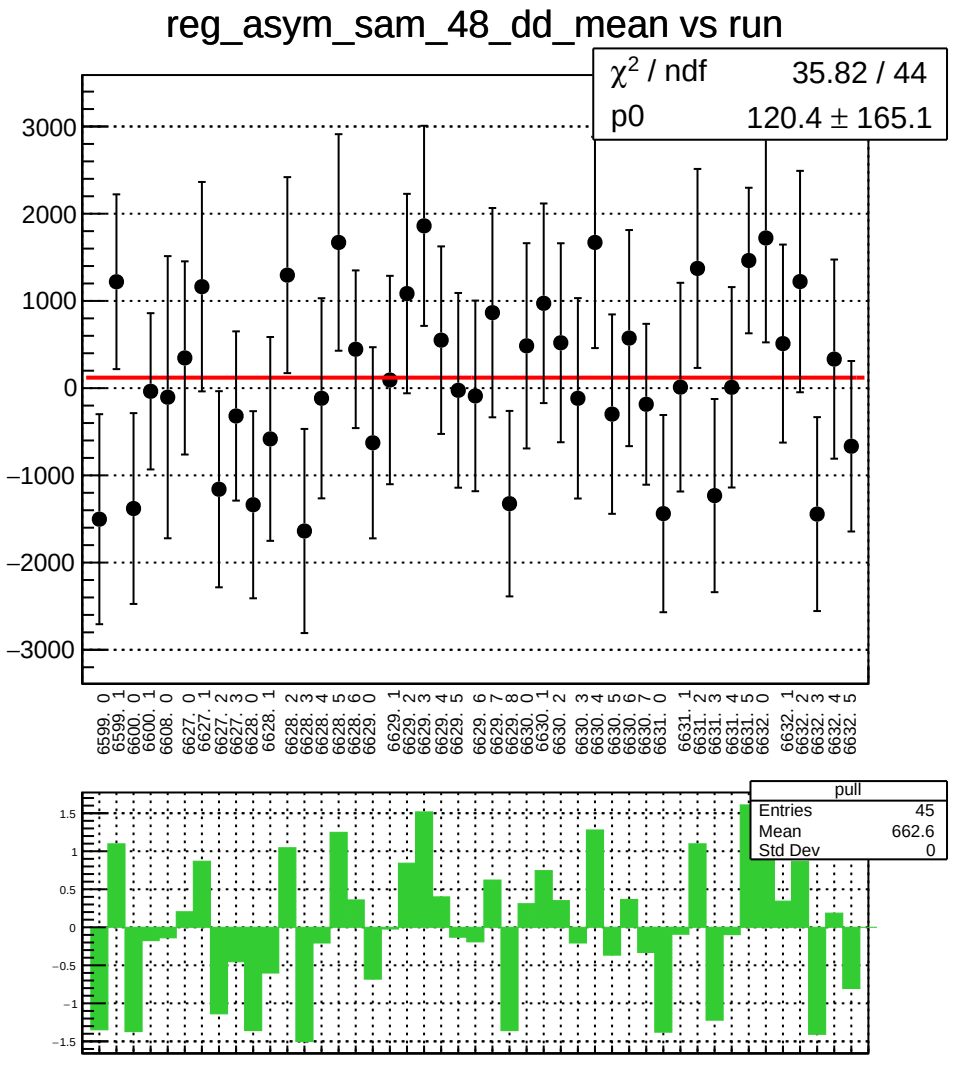

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.72 / 44
p0 −0.09768 ± 0.03706
pull
Entries 45
Mean 204.4
Std Dev 0

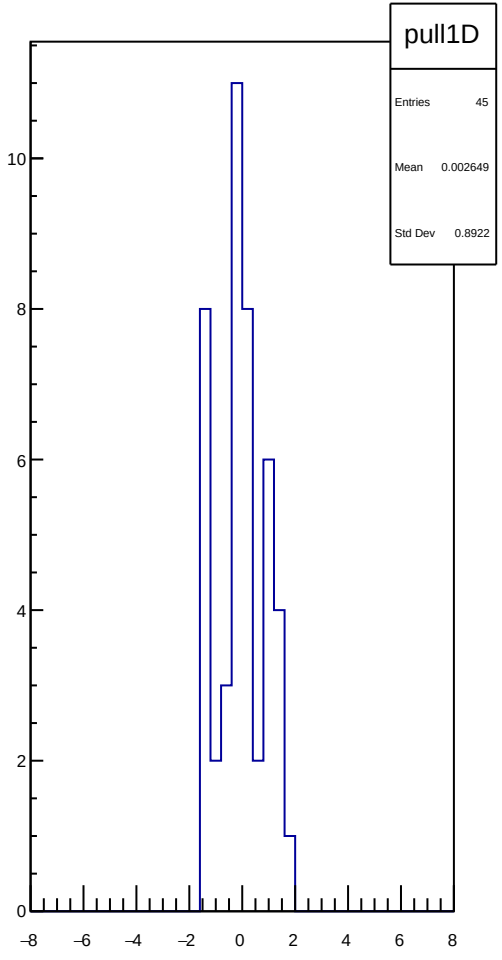

pull1D
Entries 45
Mean 0.01055
Std Dev 0.9276

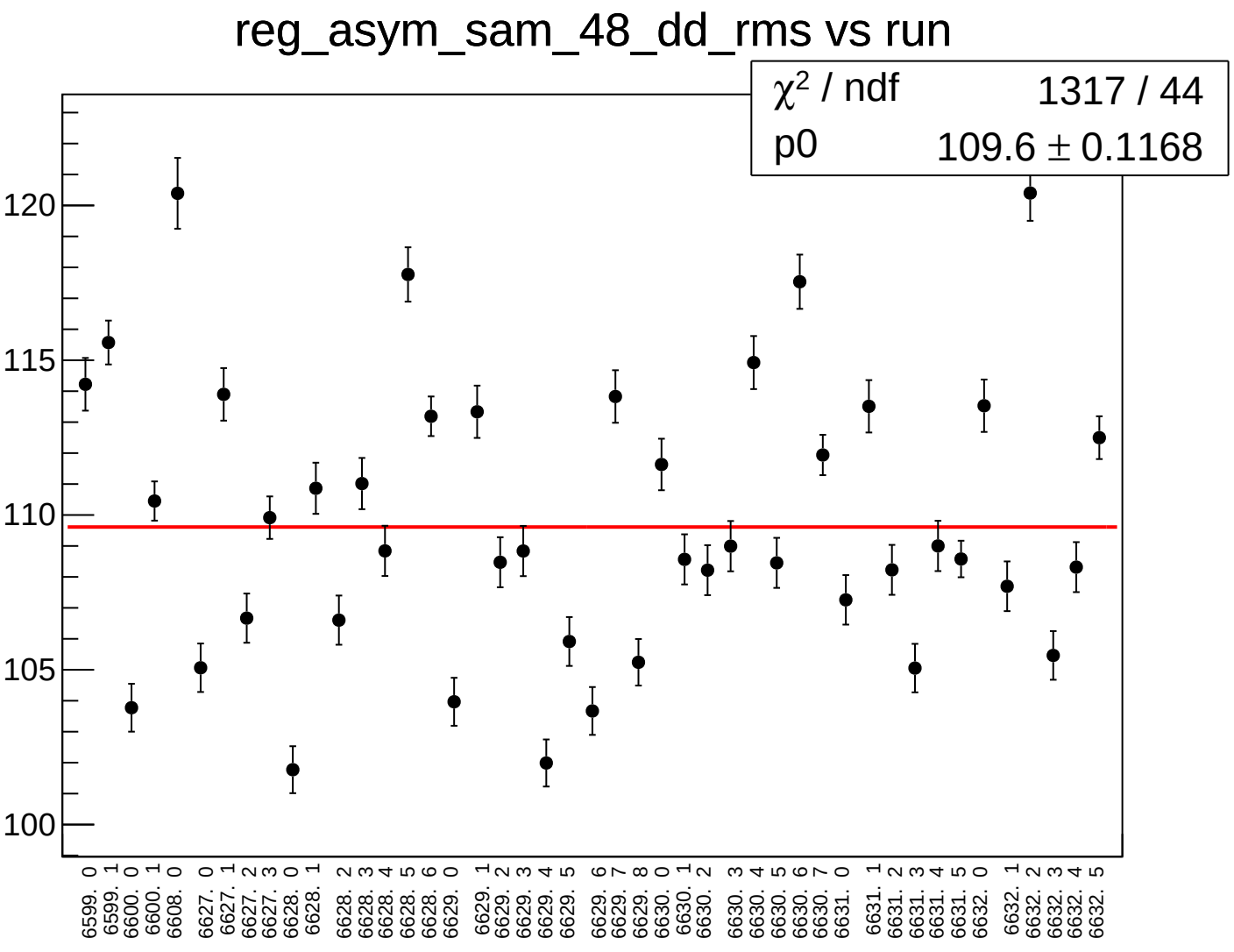

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ2 / ndf 1.286e+05 / 44
p0 22.75 ± 0.02621
60
50
40
30
20
10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

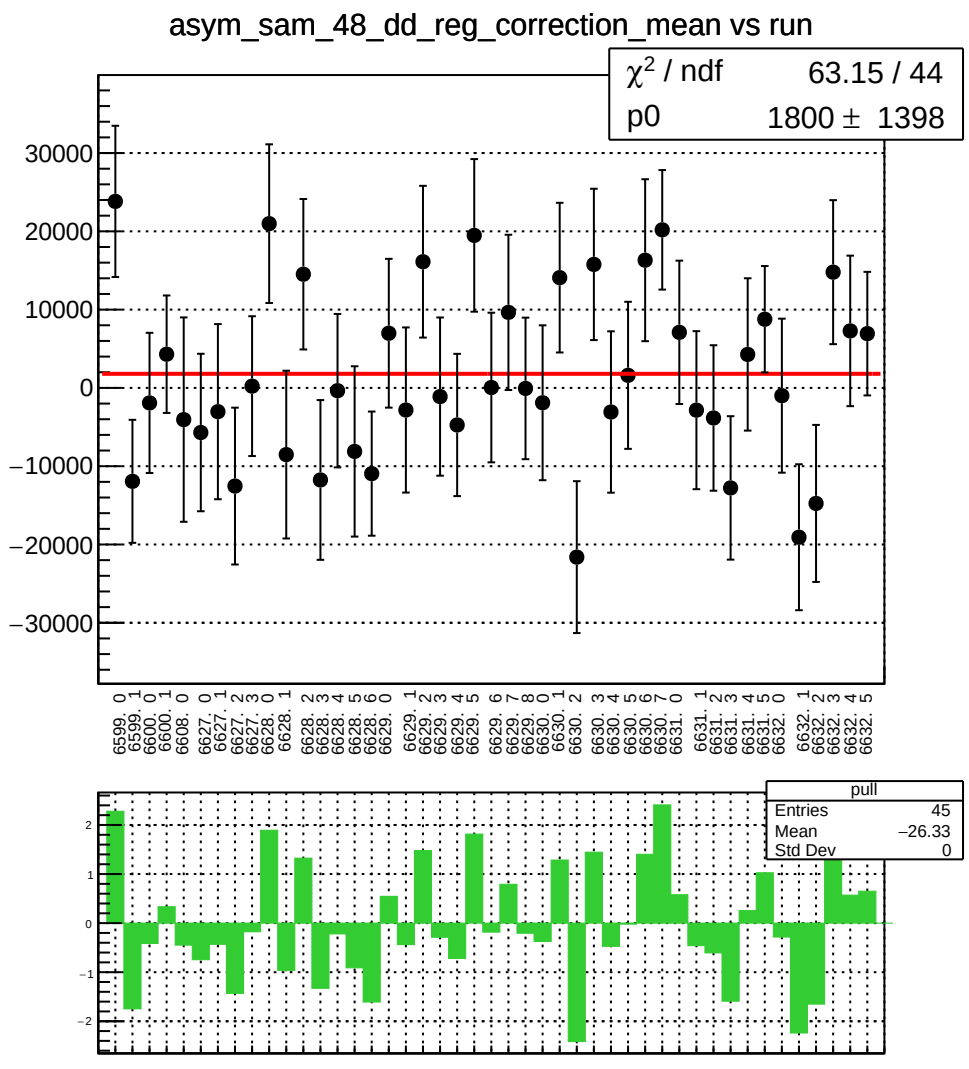

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 44.81 / 44
p0 4.255e−16 ± 7.498e−15
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 16.23
Std Dev 11.2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.1748
Std Dev 0.9825
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

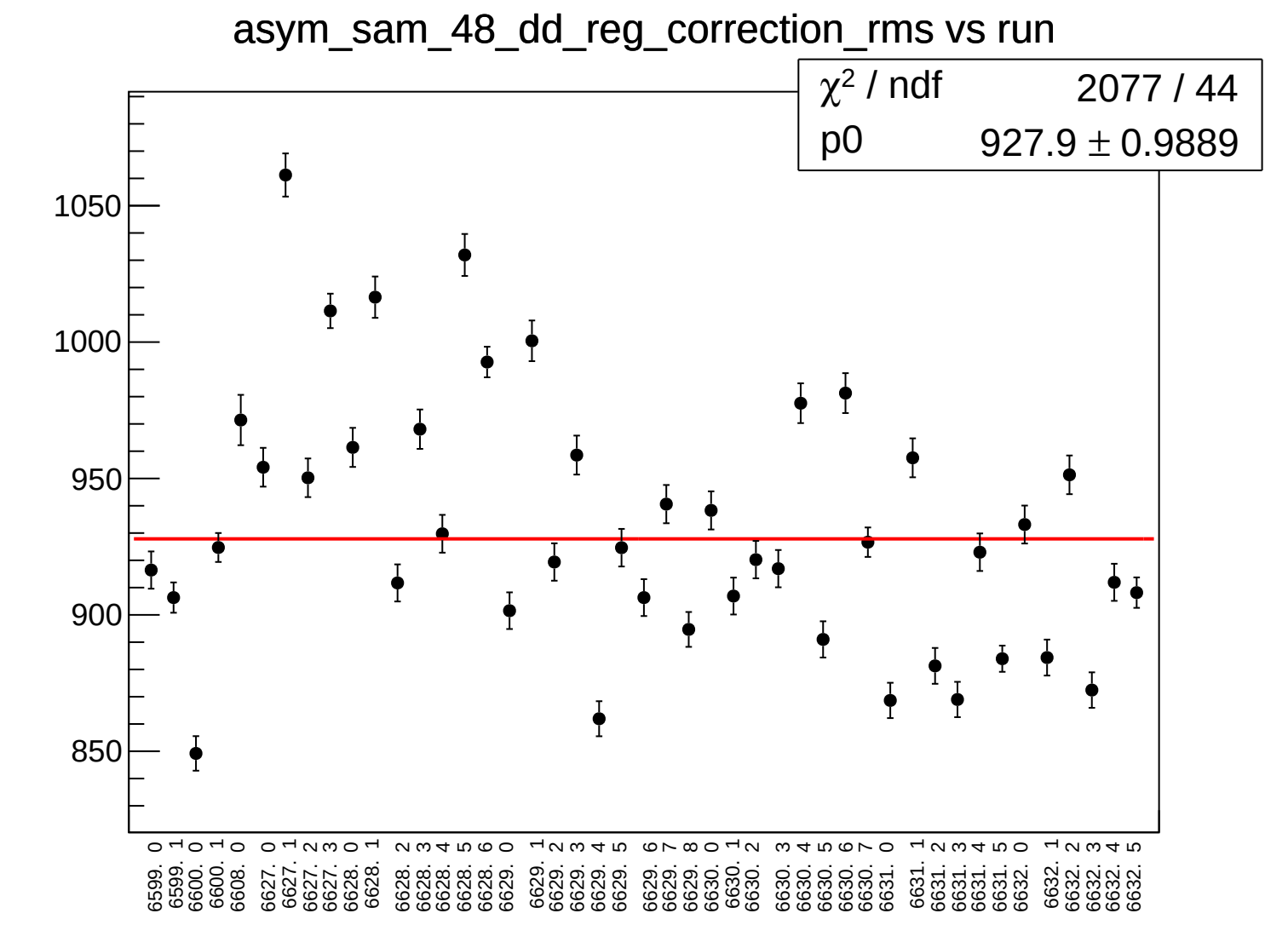

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.144e+05 / 44
p0 3.627e−12 ± 5.302e−15
25
20
15
10
5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

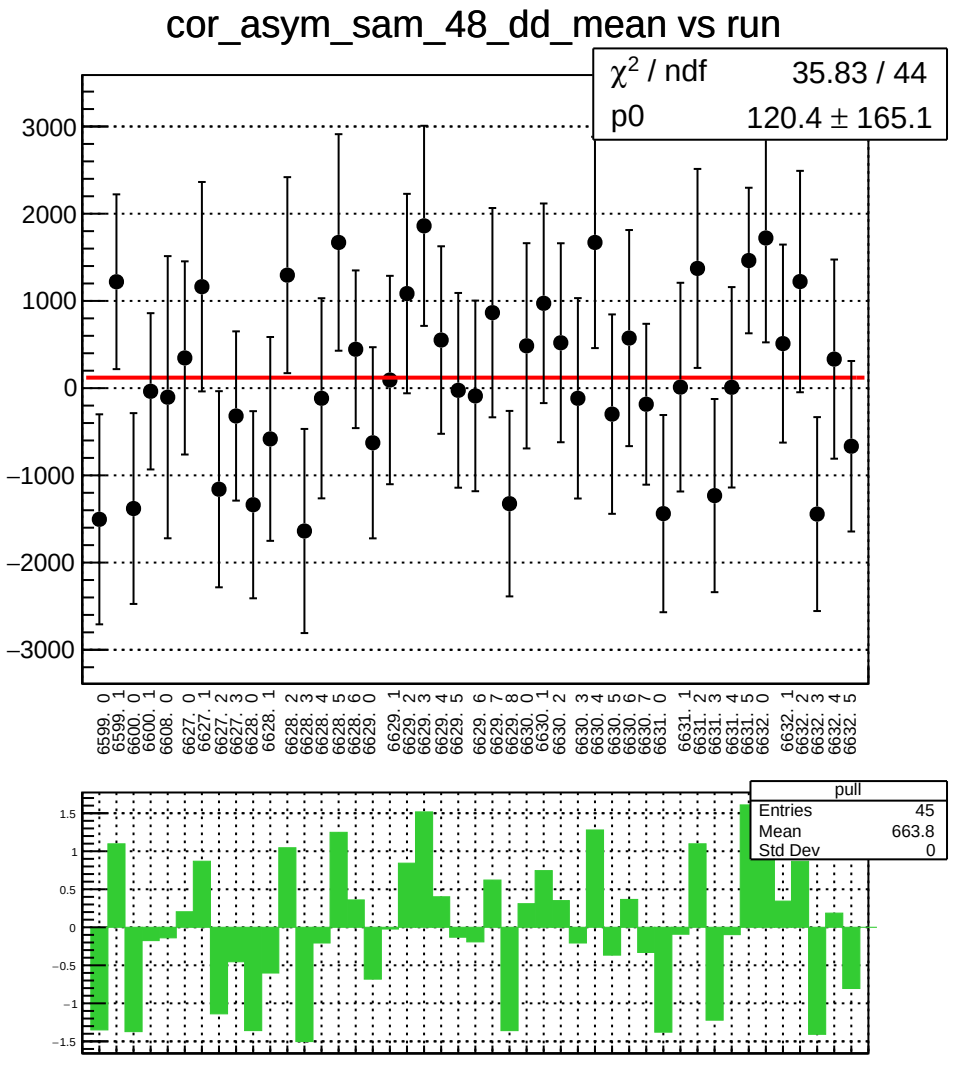

reg_asym_sam_48_dd_mean vs run
χ² / ndf 35.82 / 44
p0 120.4 ± 165.1
3000
2000
1000
0
−1000
−2000
−3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 662.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

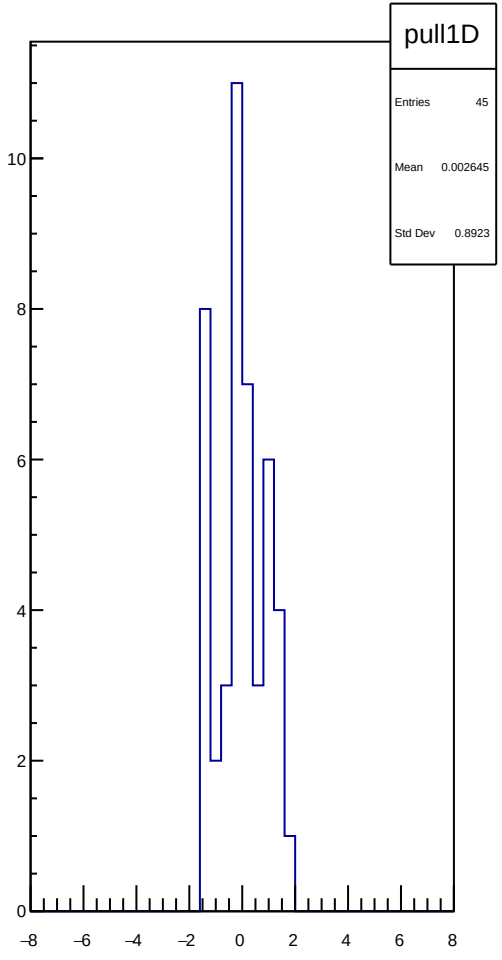

pull1D
Entries 45
Mean 0.002649
Std Dev 0.8922
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

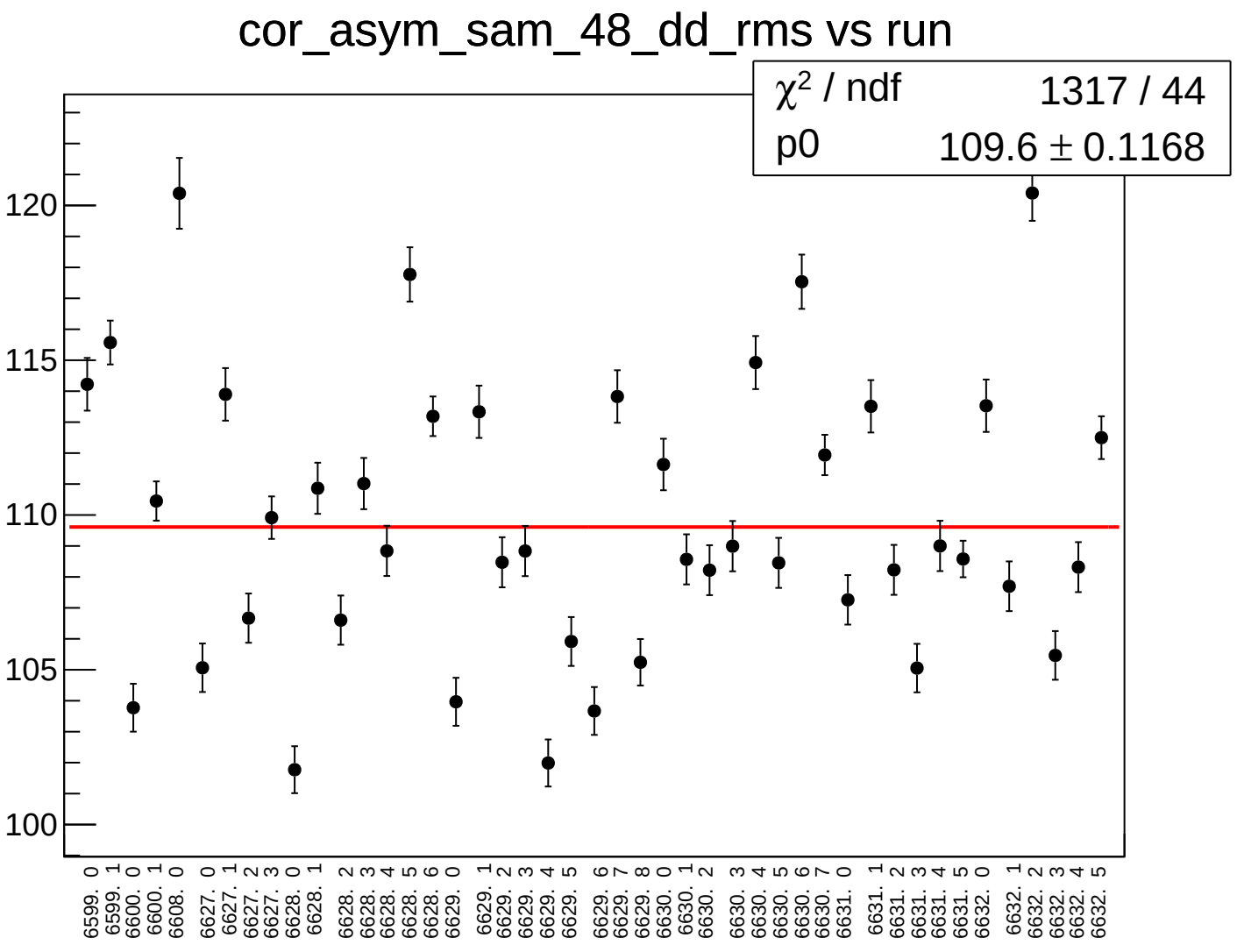

reg_asym_sam_48_dd_rms vs run
χ² / ndf 1317 / 44
p0 109.6 ± 0.1168
120
115
110
105
100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

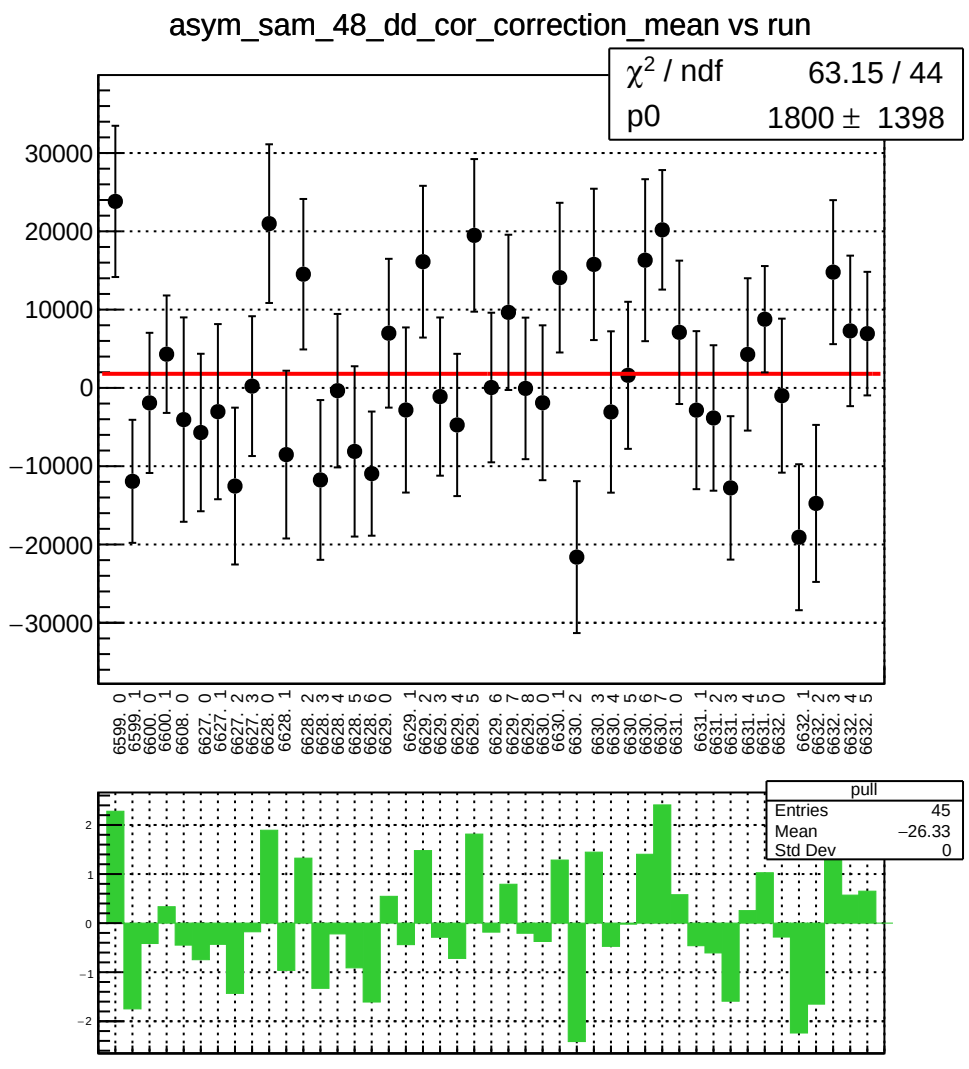

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 63.15 / 44
p0 1800 ± 1398
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −26.33
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01956
Std Dev 1.184
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

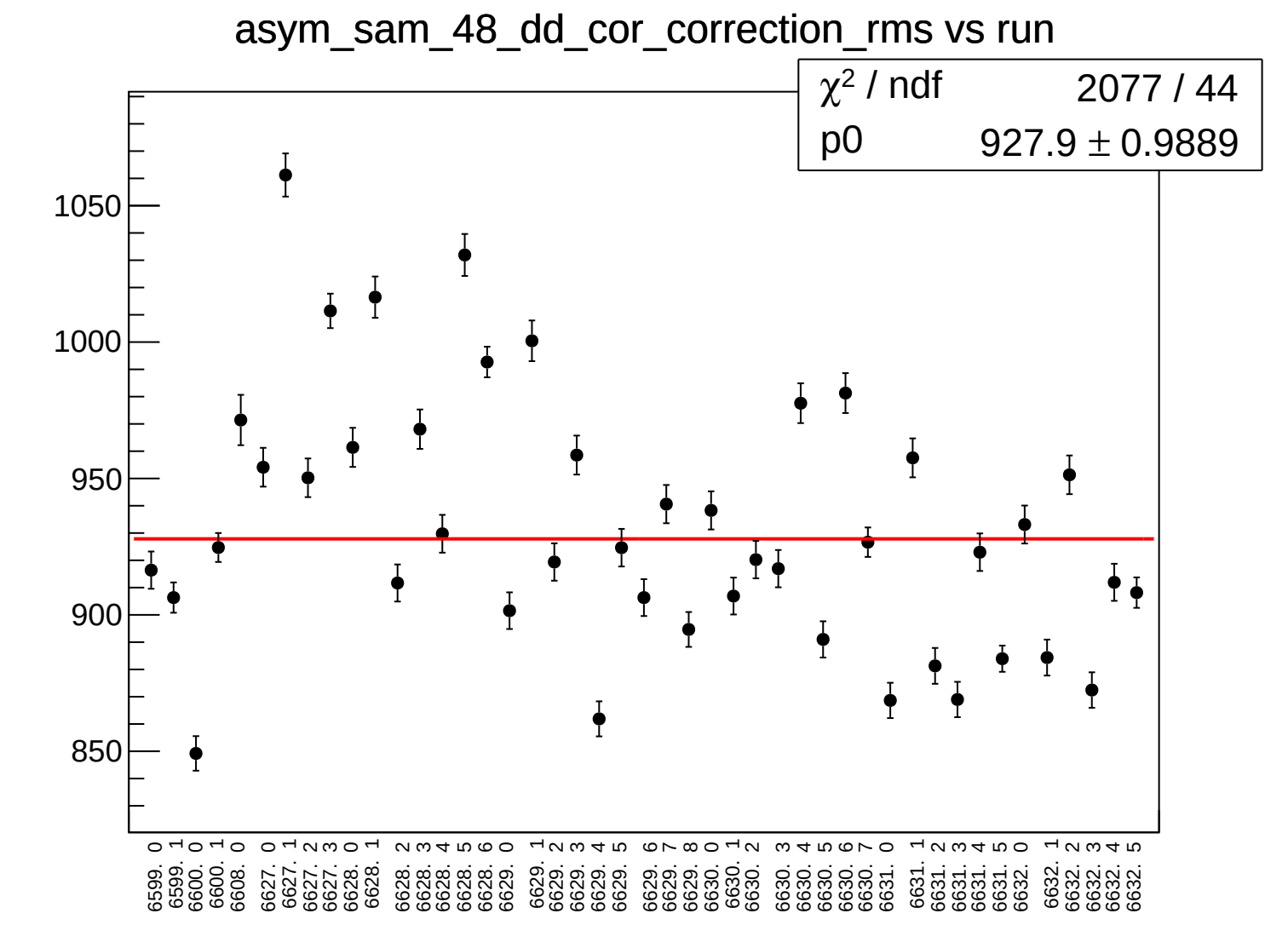

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 2077 / 44
p0 927.9 ± 0.9889
1050
1000
950
900
850
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

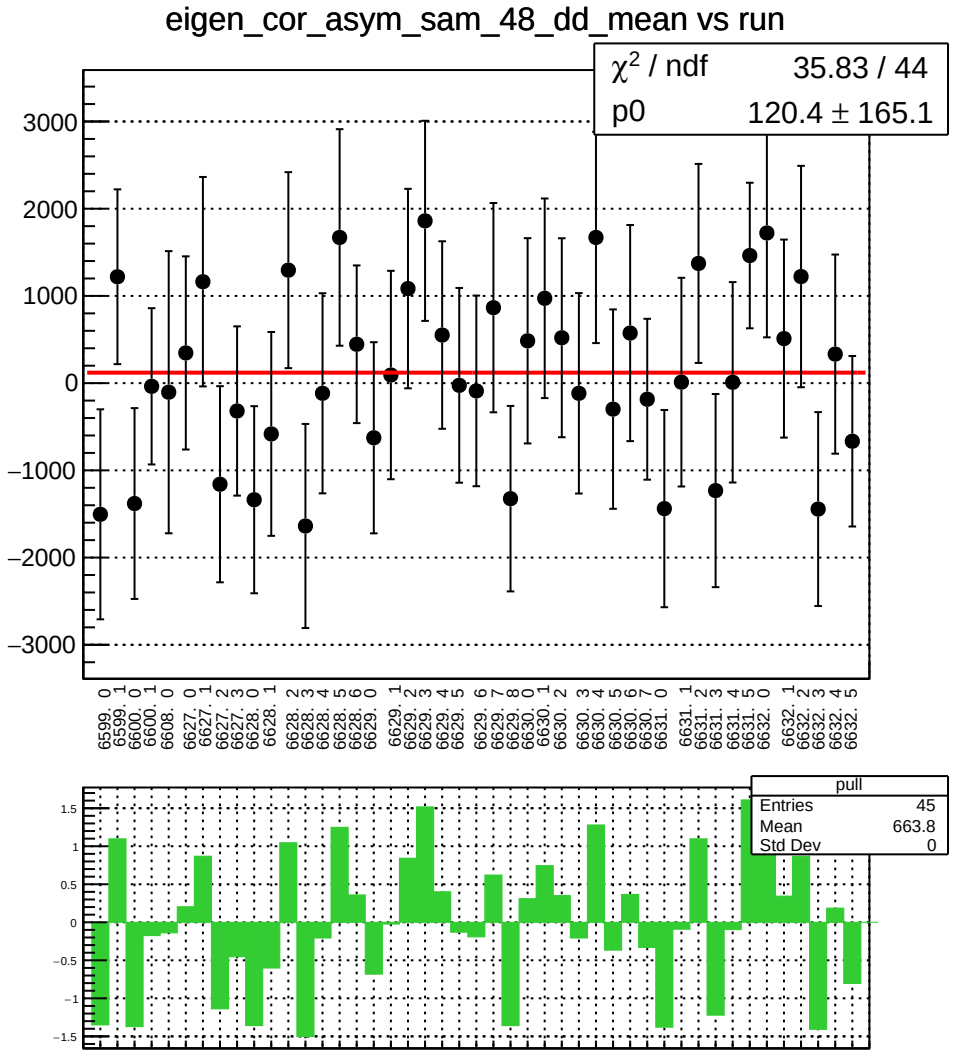

cor_asym_sam_48_dd_mean vs run
χ² / ndf 35.83 / 44
p0 120.4 ± 165.1
3000
2000
1000
0
−1000
−2000
−3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 663.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

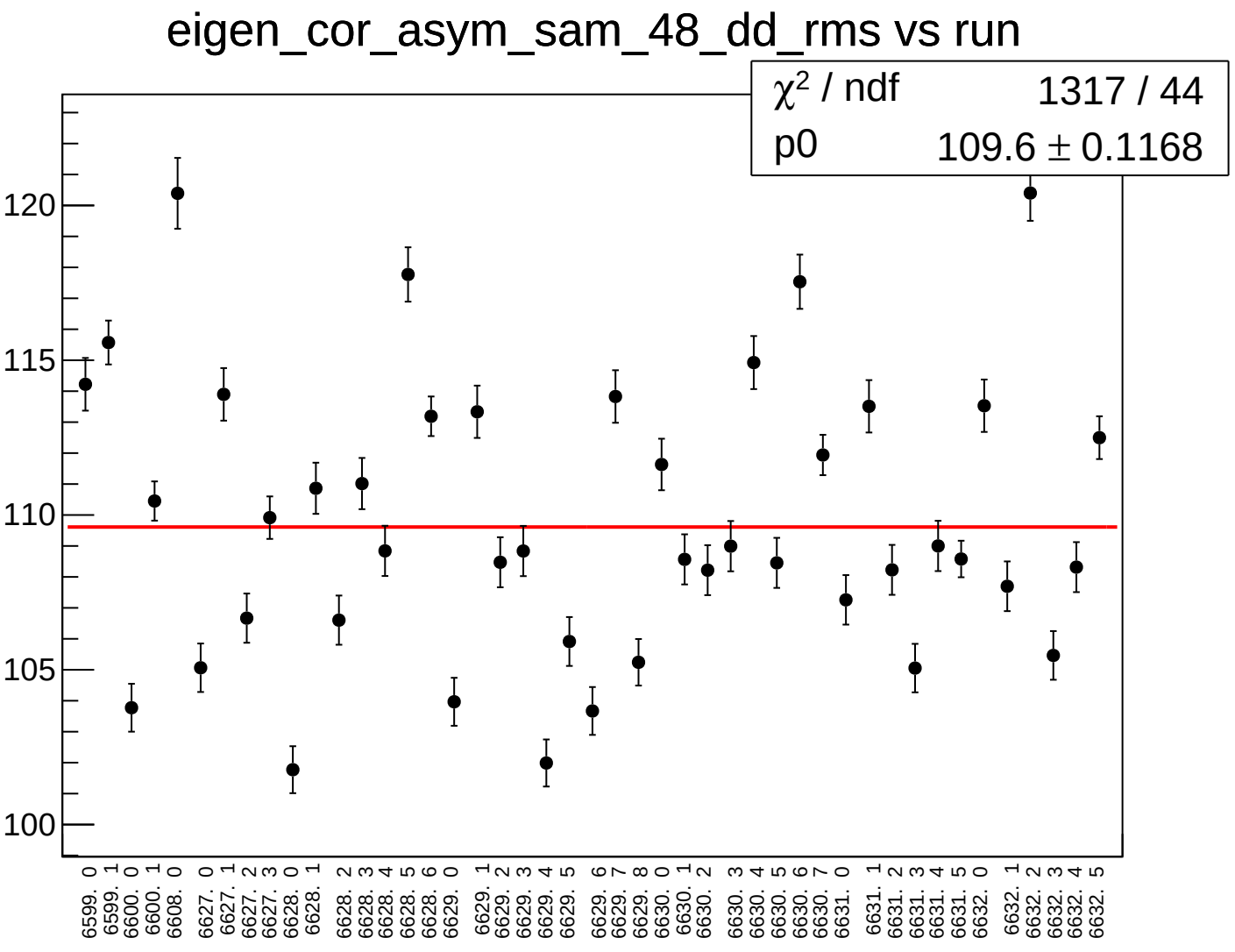

pull1D
Entries 45
Mean 0.002645
Std Dev 0.8923
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_48_dd_rms vs run
χ² / ndf 1317 / 44
p0 109.6 ± 0.1168
120
115
110
105
100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 63.15 / 44
p0 1800 ± 1398
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −26.33
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01956
Std Dev 1.184
9
8
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 2077 / 44
p0 927.9 ± 0.9889
1050
1000
950
900
850
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 35.83 / 44
p0 120.4 ± 165.1
3000
2000
1000
0
−1000
−2000
−3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 663.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.002645
Std Dev 0.8923
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 1317 / 44
p0 109.6 ± 0.1168
120
115
110
105
100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
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6628. 6
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6629. 1
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6629. 4
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
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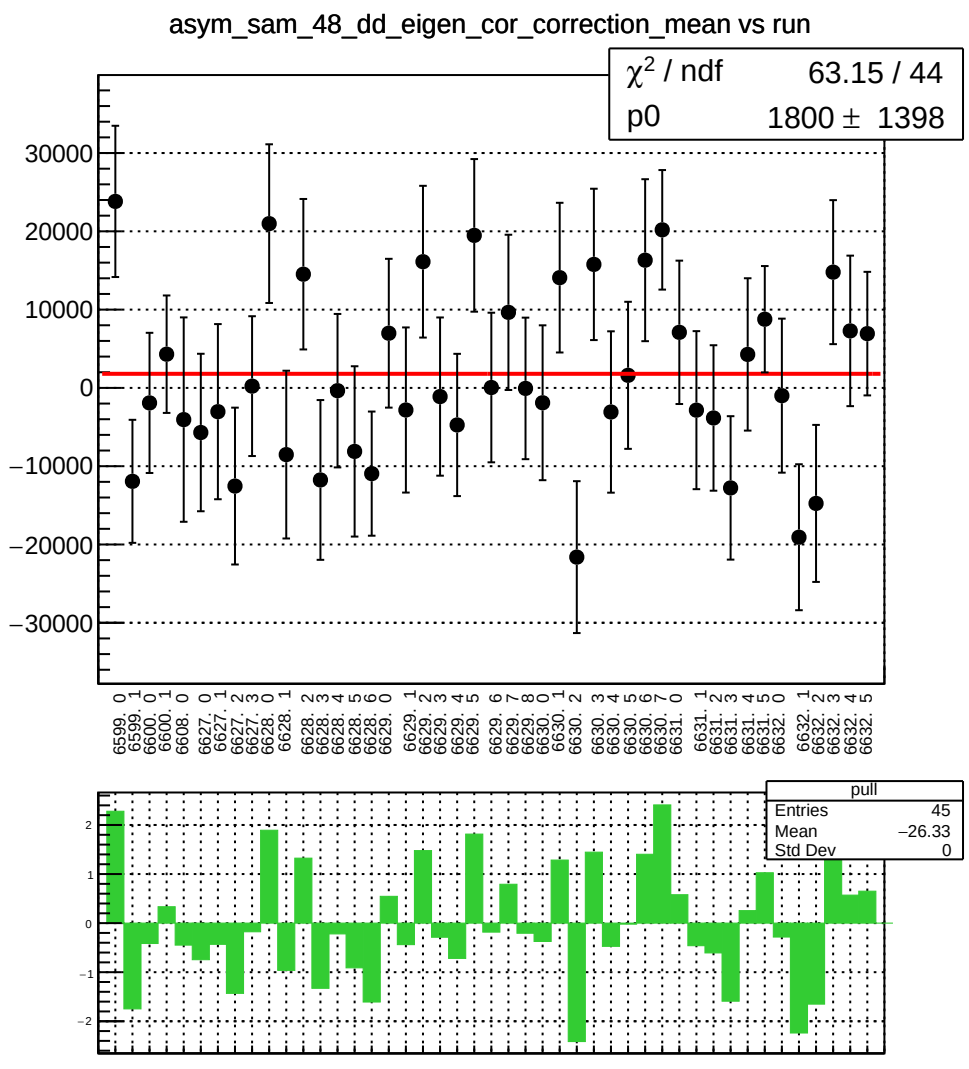
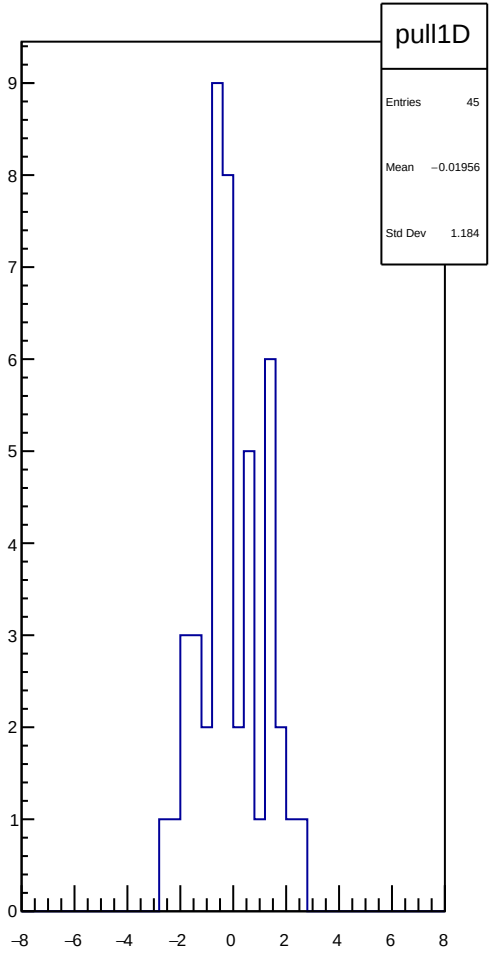
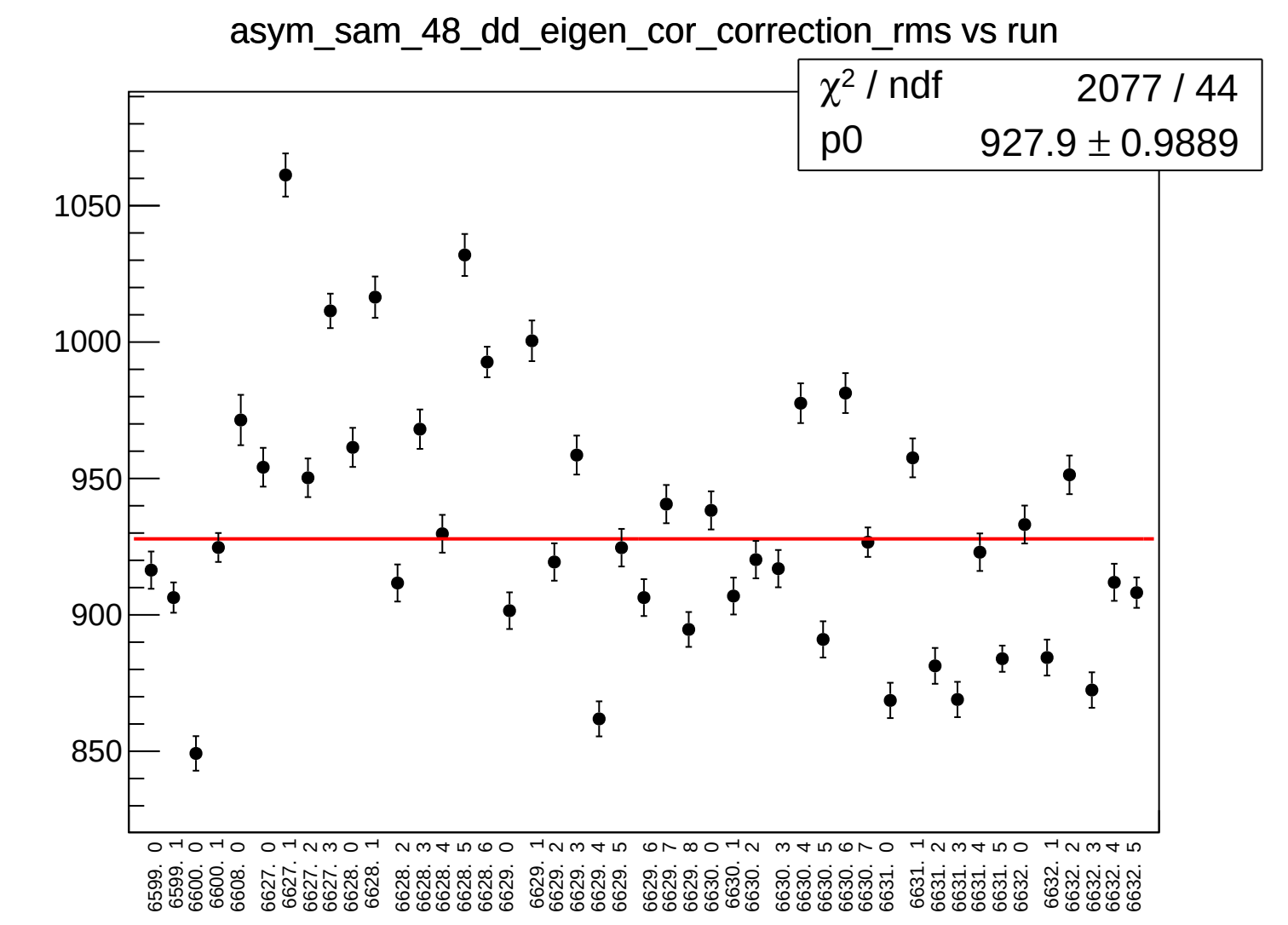
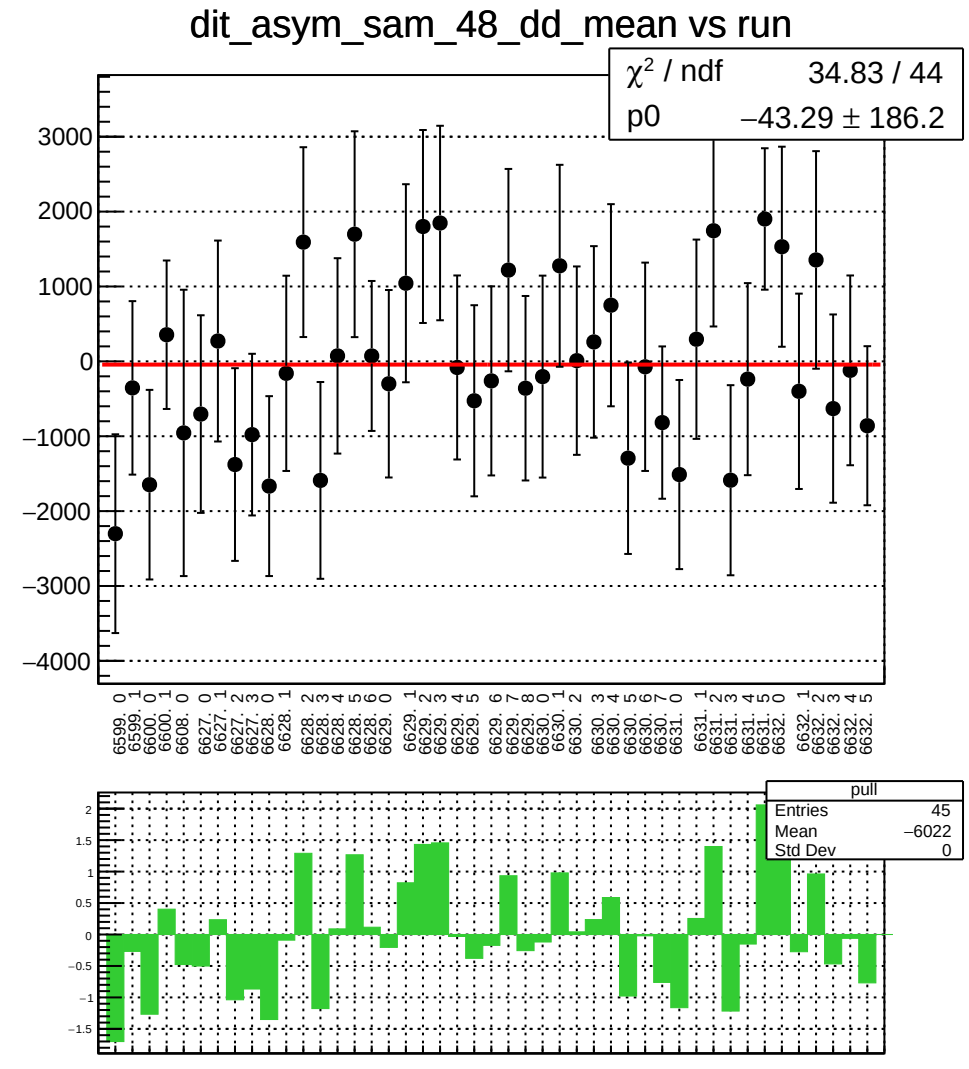
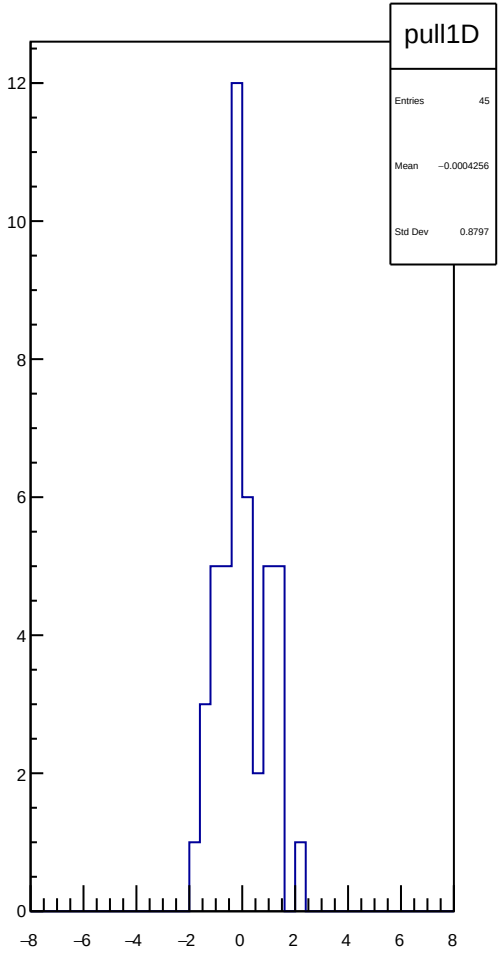
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

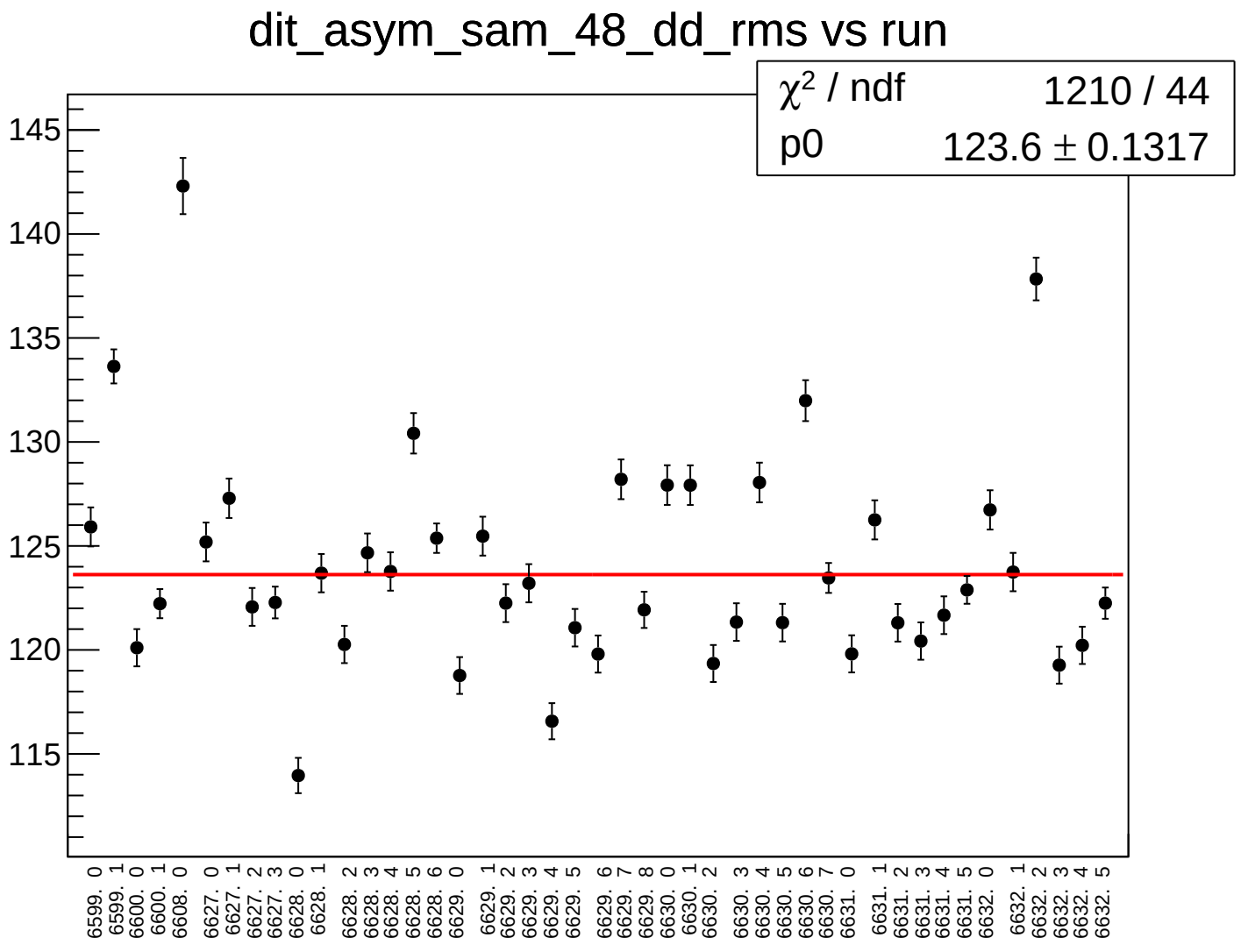

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 63.15 / 44
p0 1800 ± 1398
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −26.33
Std Dev 0
2
1
0
−1
−2

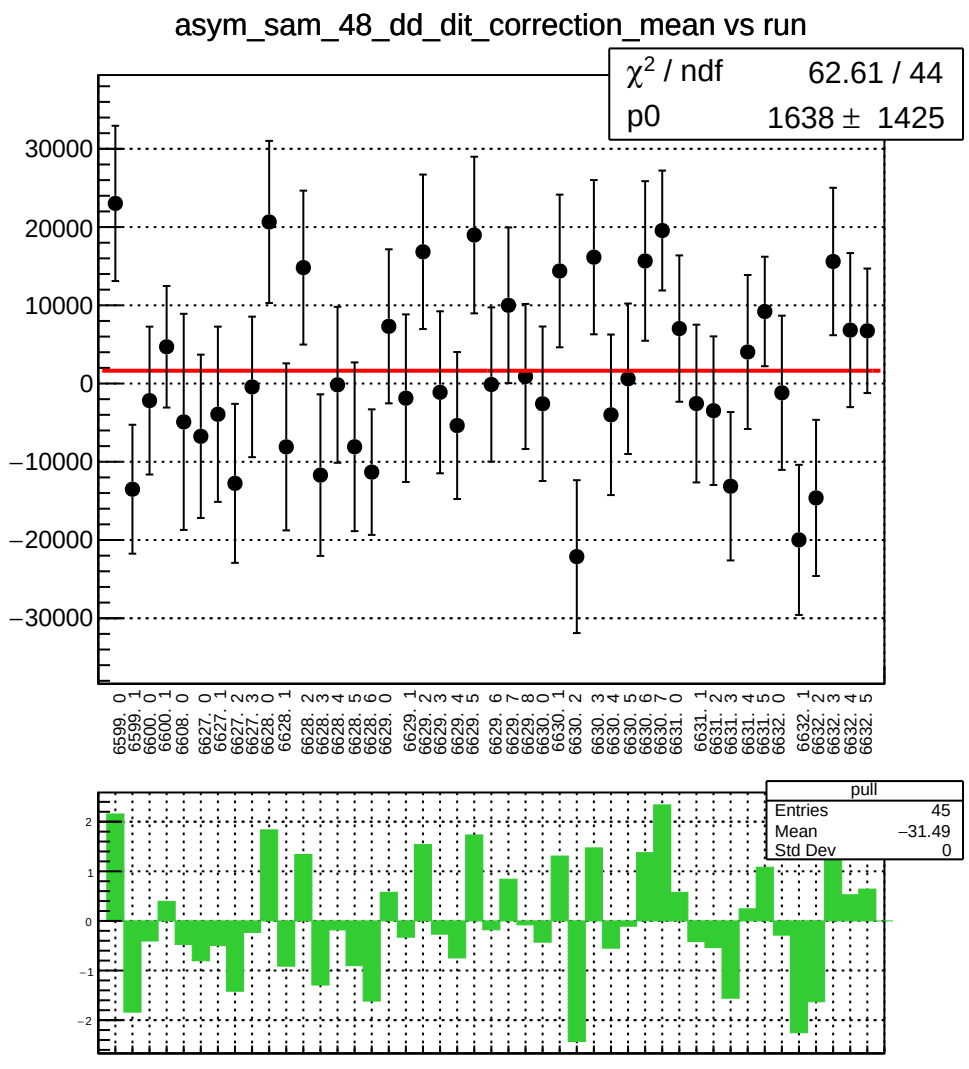

pull1D
Entries 45
Mean −0.01956
Std Dev 1.184
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

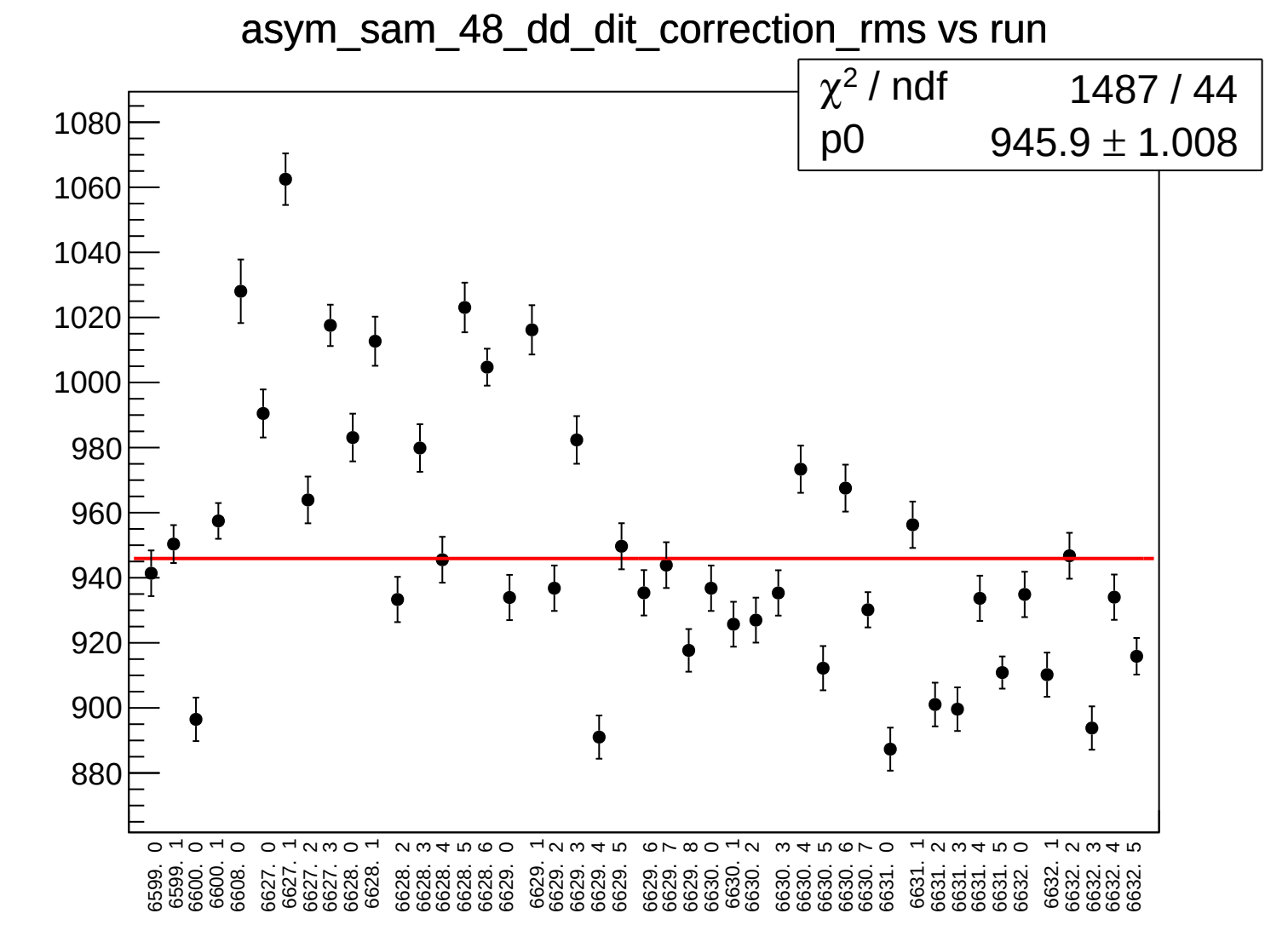

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2077 / 44
p0 927.9 ± 0.9889
1050
1000
950
900
850
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

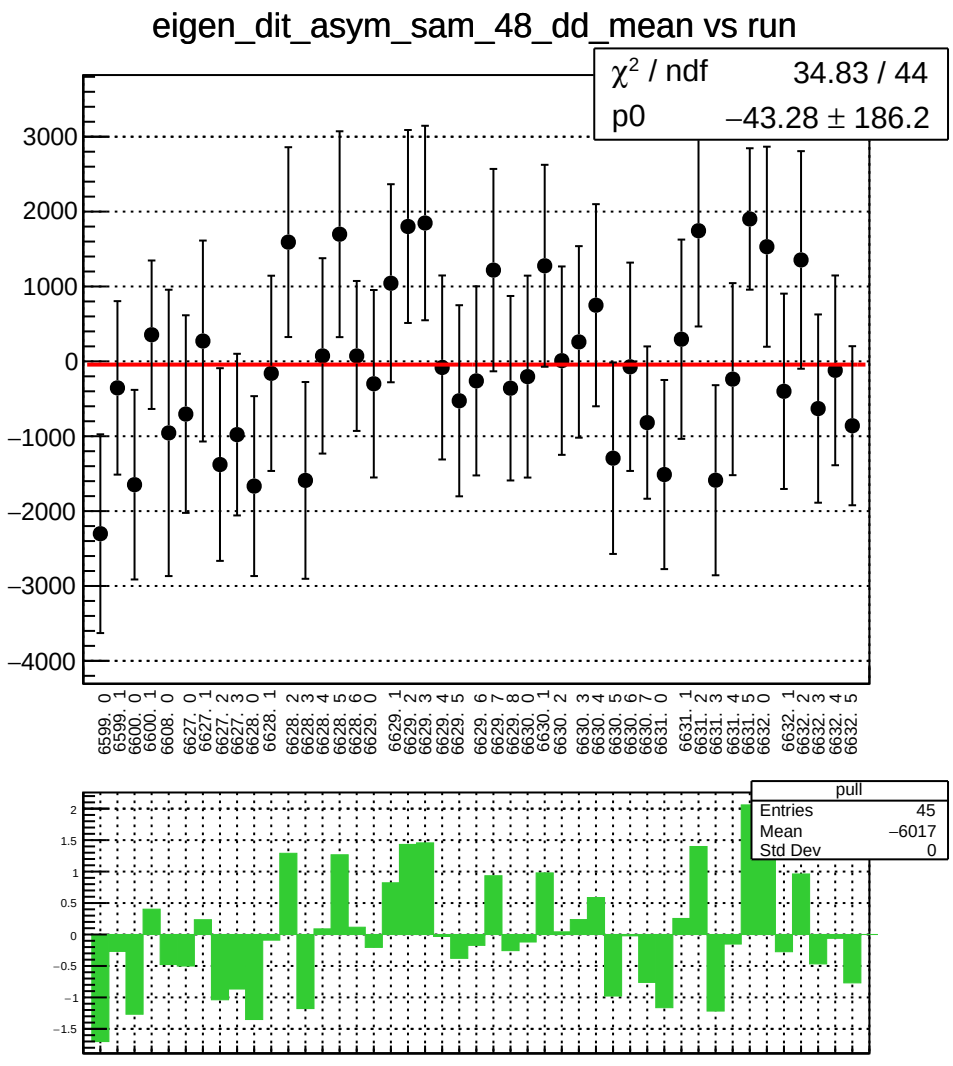

dit_asym_sam_48_dd_mean vs run
χ² / ndf 34.83 / 44
p0 −43.29 ± 186.2
3000
2000
1000
0
−1000
−2000
−3000
−4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −6022
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.0004256
Std Dev 0.8797
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_48_dd_rms vs run
χ² / ndf 1210 / 44
p0 123.6 ± 0.1317
145
140
135
130
125
120
115
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 62.61 / 44
p0 1638 ± 1425
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −31.49
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02004
Std Dev 1.179
8
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 1487 / 44
p0 945.9 ± 1.008
1080
1060
1040
1020
1000
980
960
940
920
900
880
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 34.83 / 44
p0 −43.28 ± 186.2
3000
2000
1000
0
−1000
−2000
−3000
−4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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6629. 0
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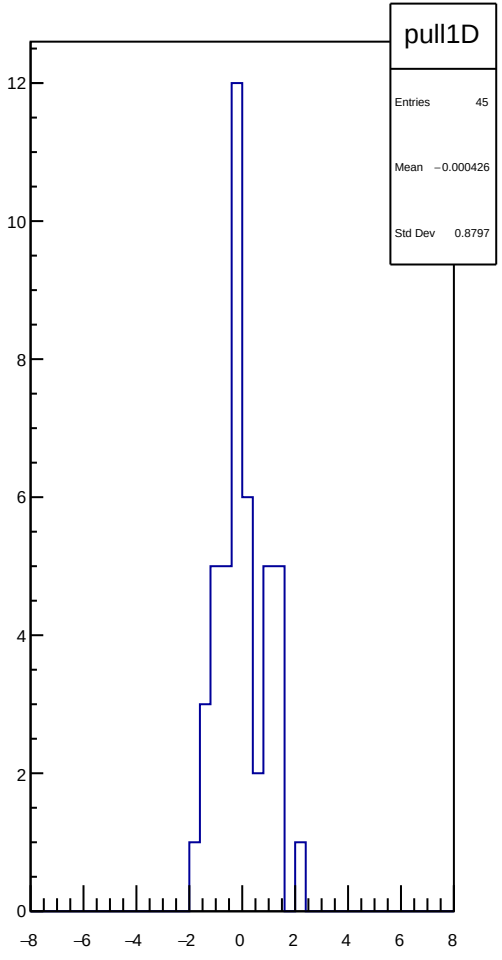
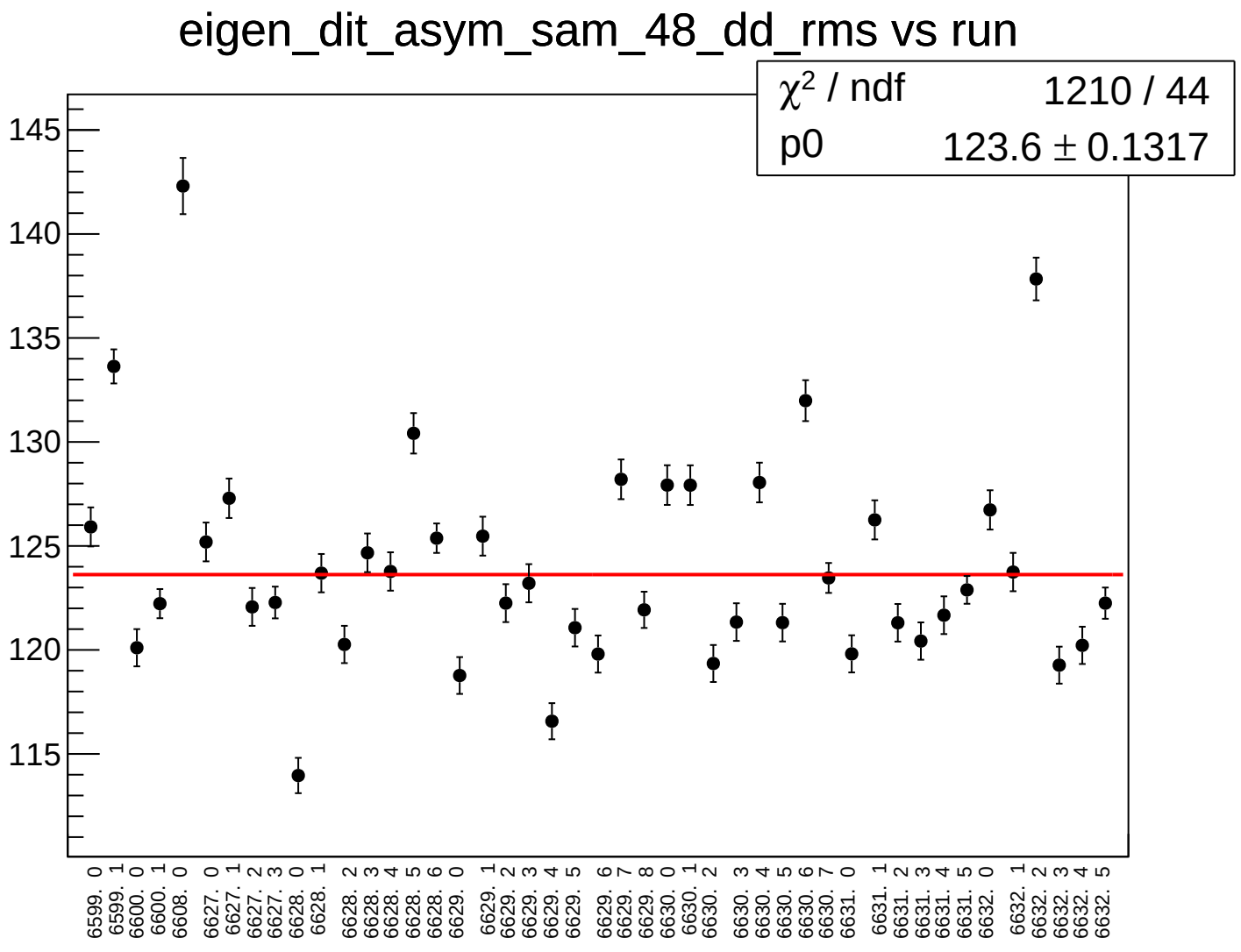
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −6017
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.000426
Std Dev 0.8797
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 1210 / 44
p0 123.6 ± 0.1317
145
140
135
130
125
120
115
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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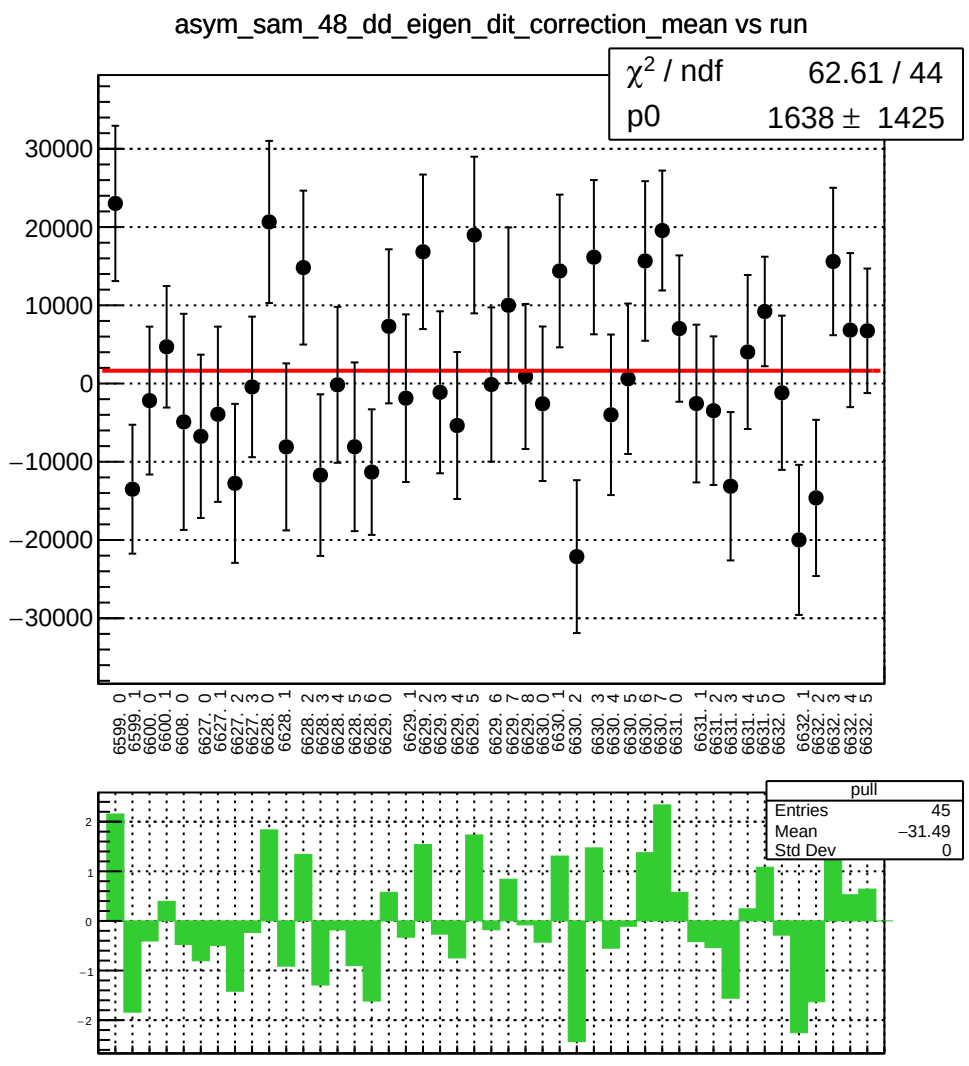
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 62.61 / 44
p0 1638 ± 1425
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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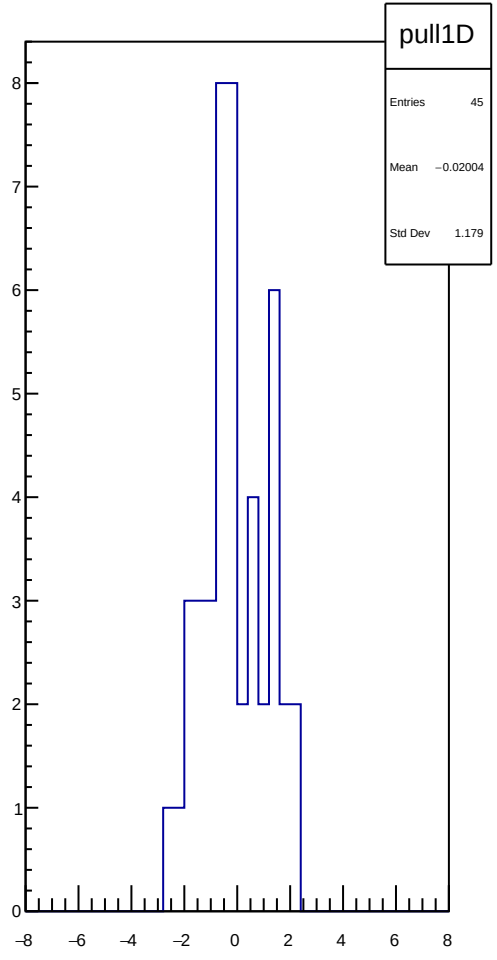
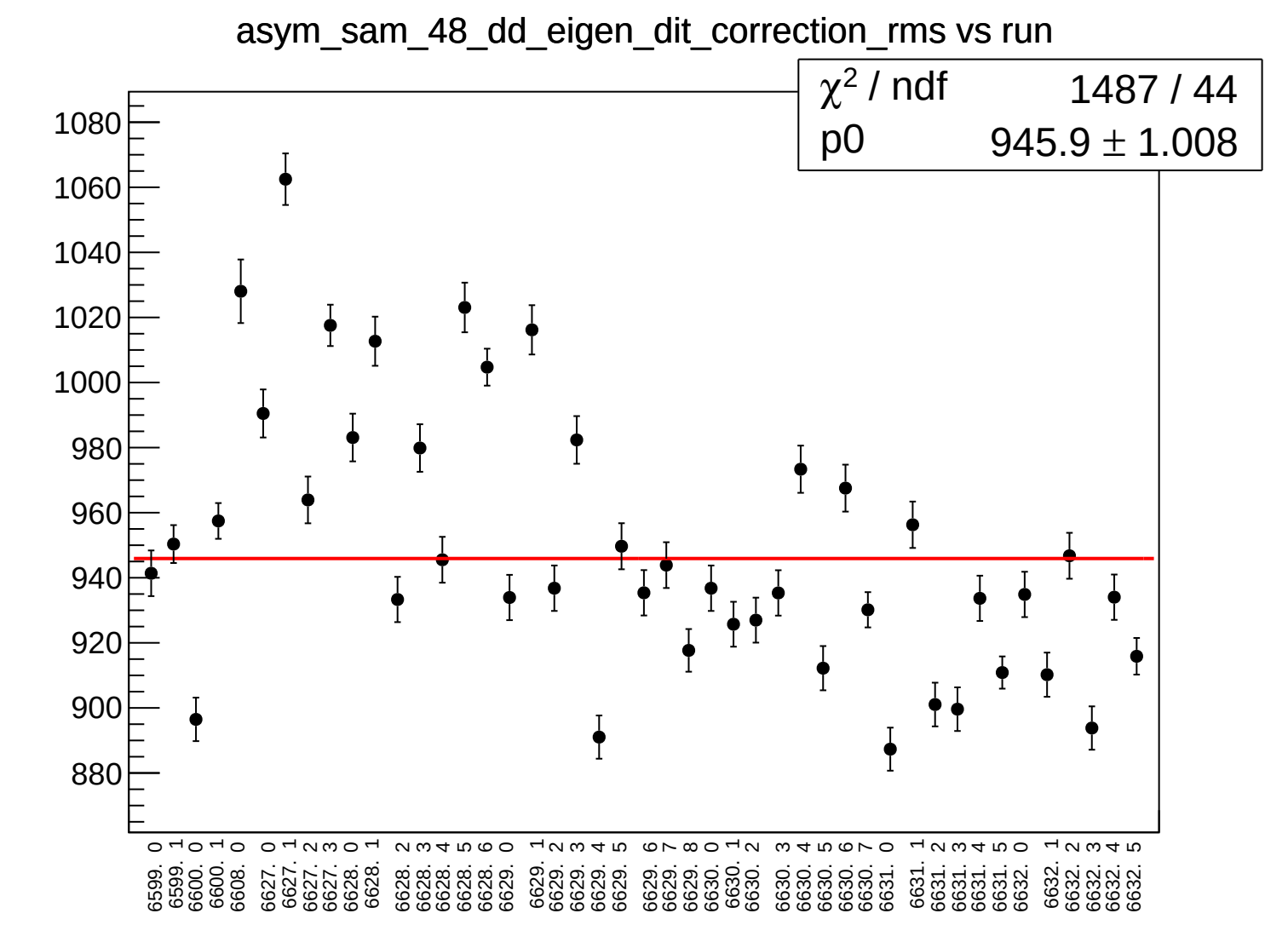
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −31.49
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.02004
Std Dev 1.179
8
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 1487 / 44
p0 945.9 ± 1.008
1080
1060
1040
1020
1000
980
960
940
920
900
880
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
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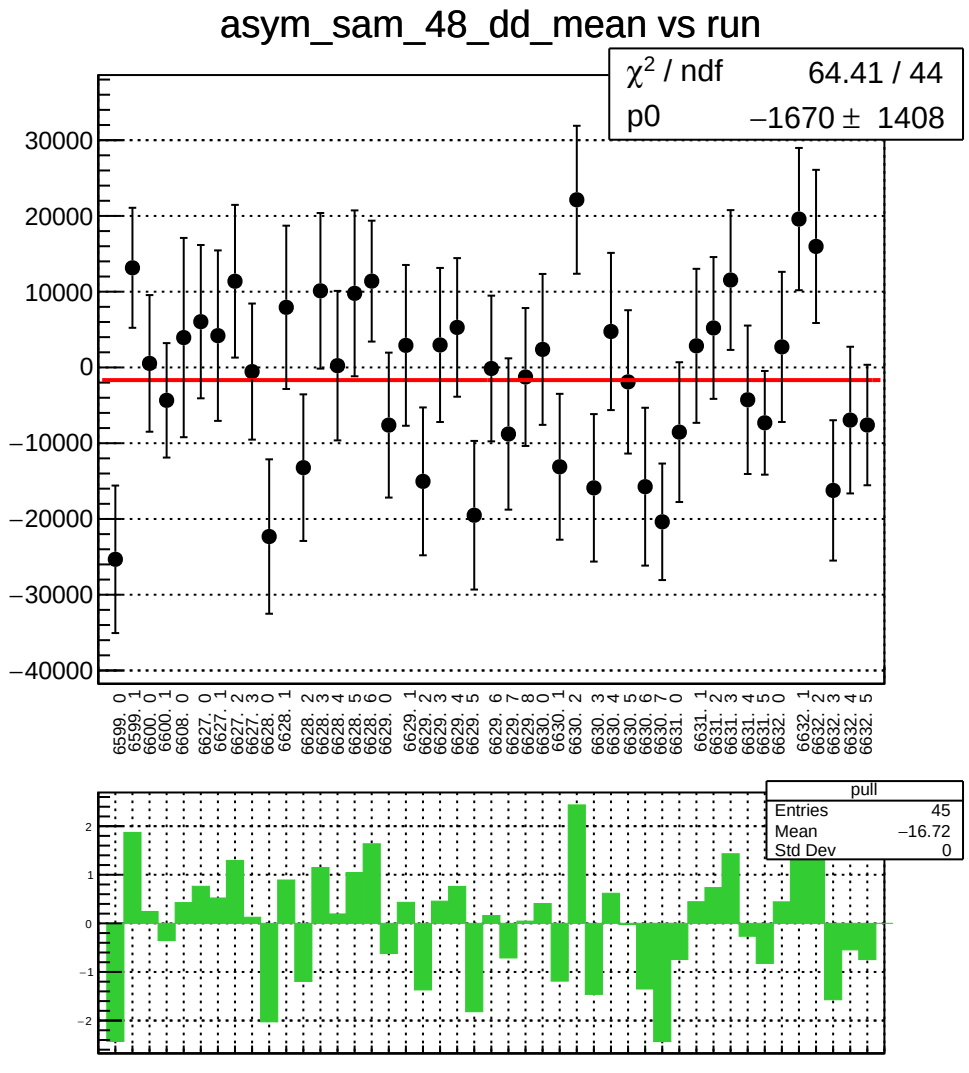
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_48_dd_mean vs run
χ² / ndf 64.41 / 44
p0 −1670 ± 1408
30000
20000
10000
0
−10000
−20000
−30000
−40000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
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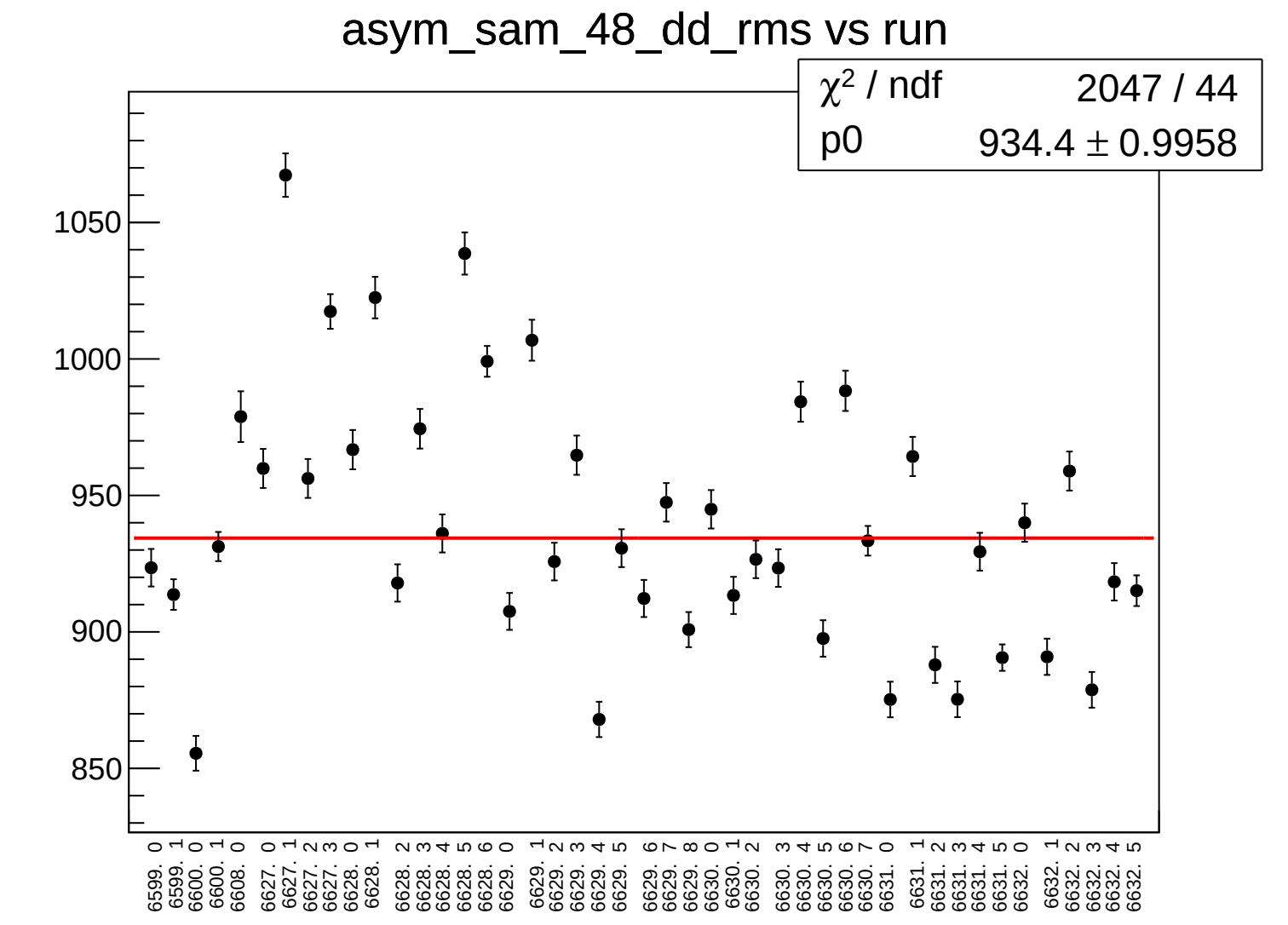
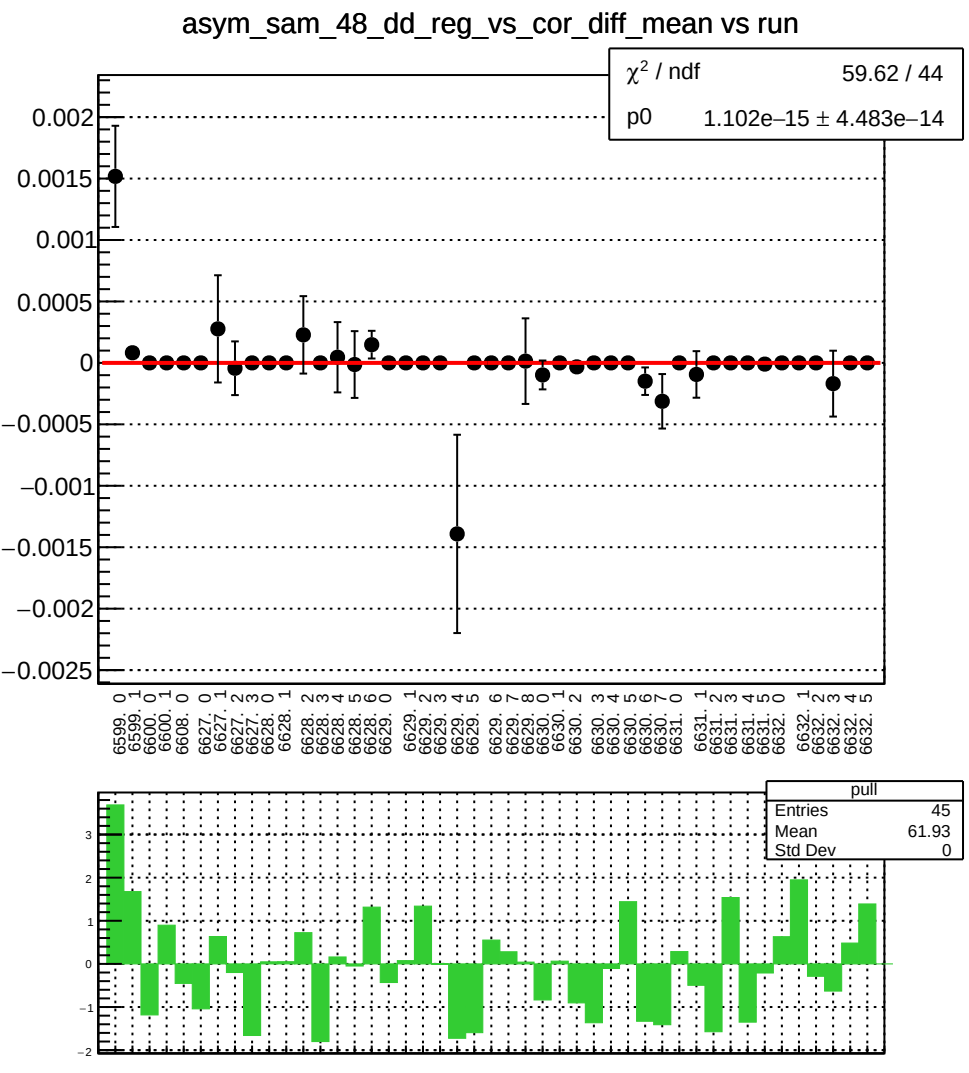
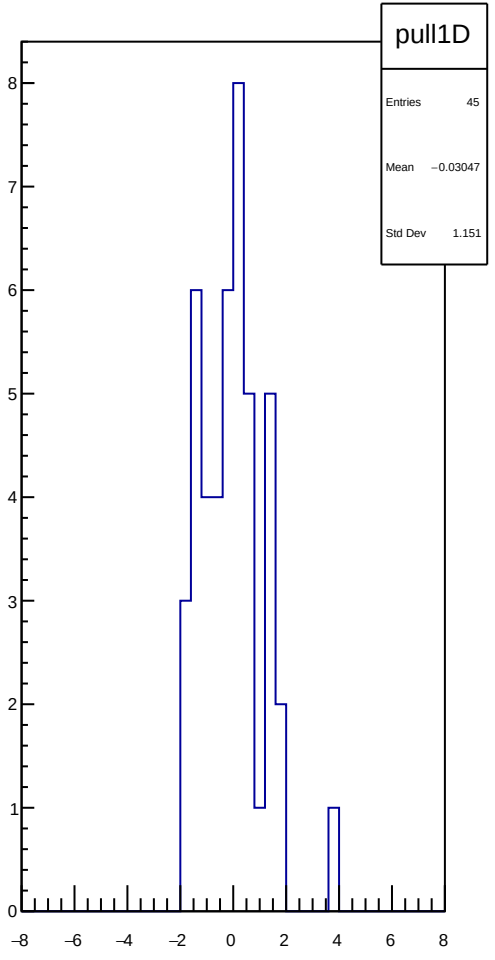
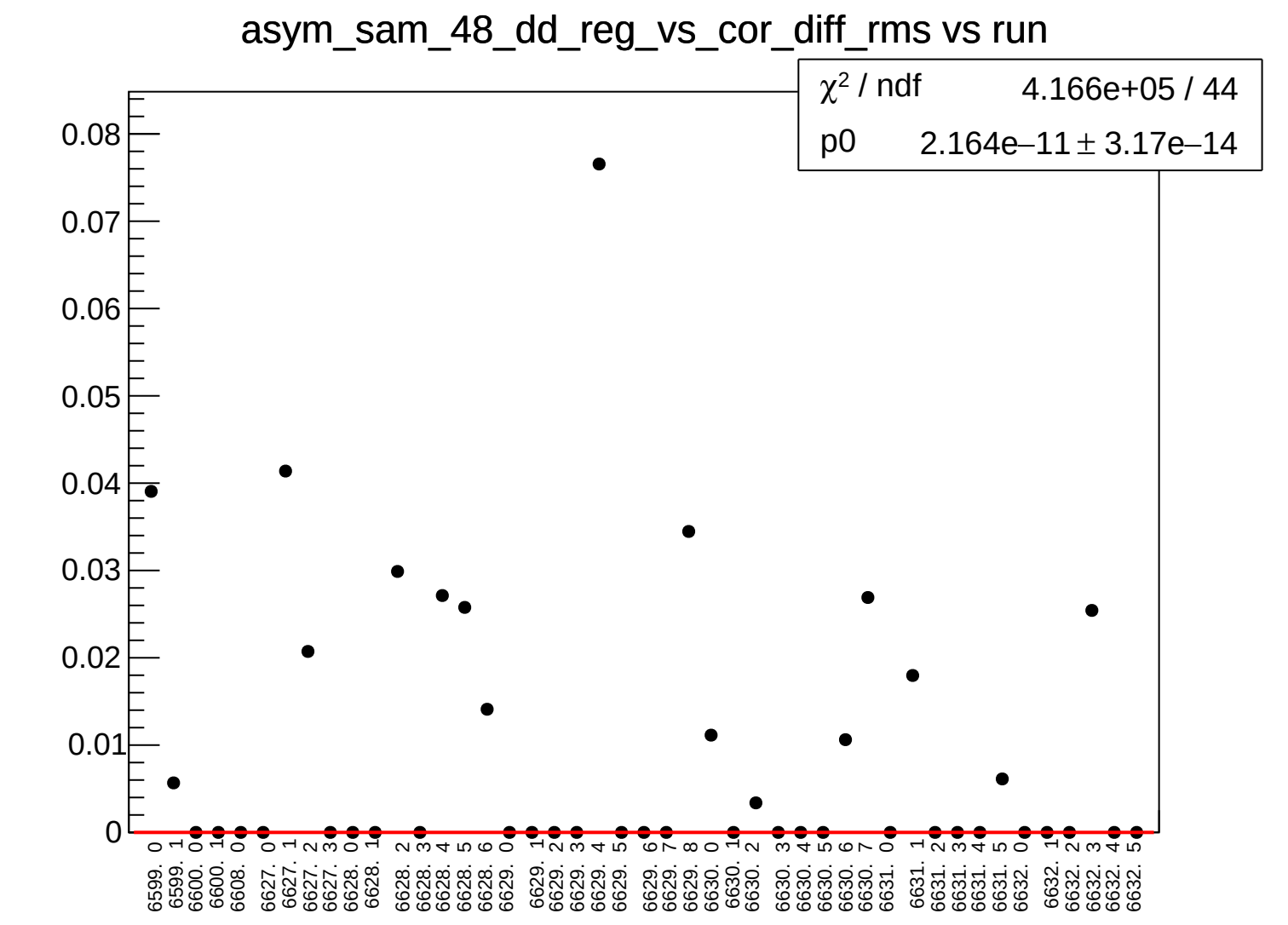
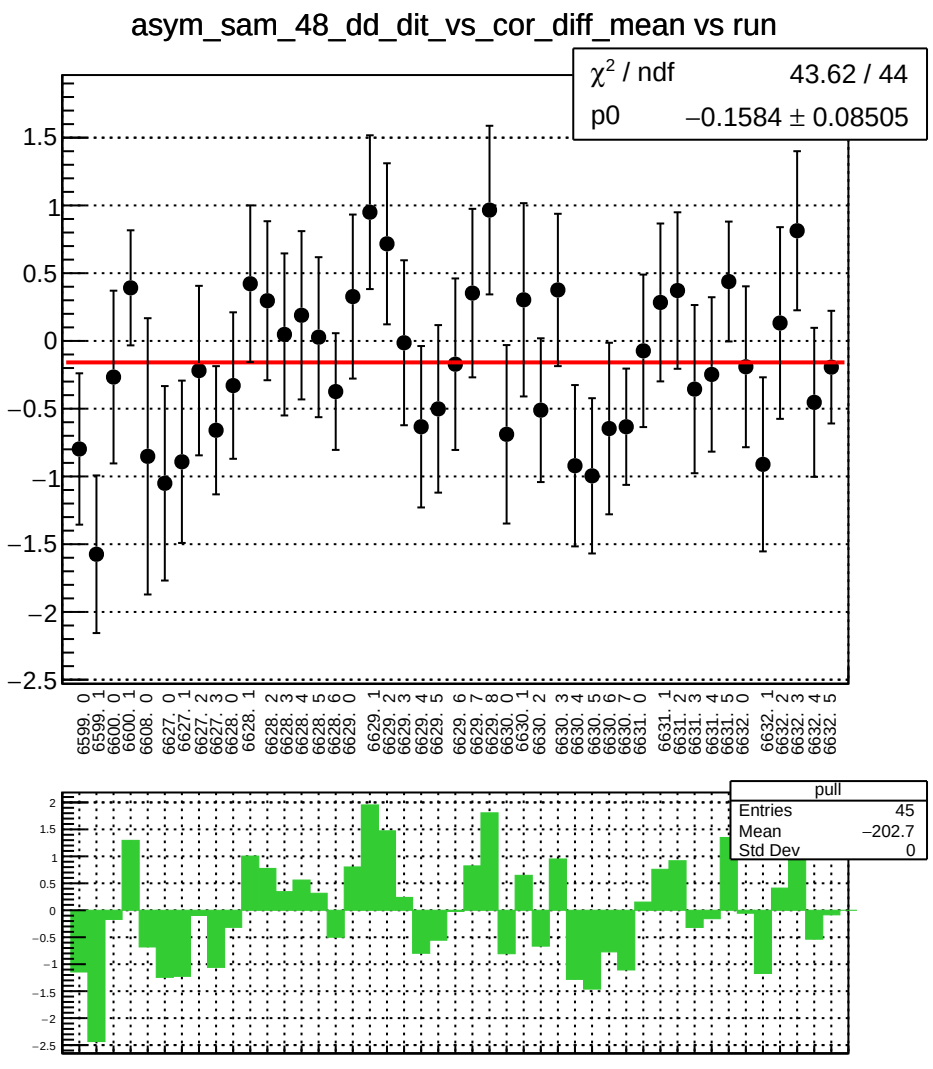
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −16.72
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01915
Std Dev 1.196
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

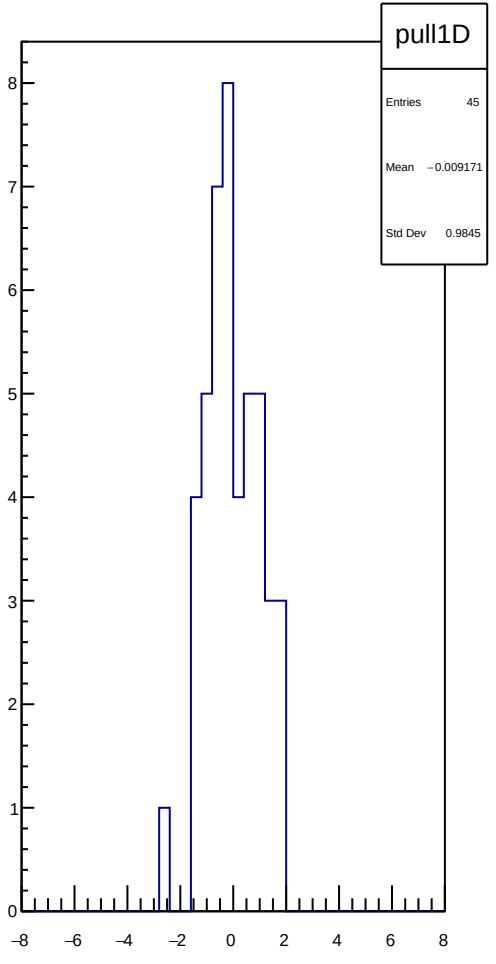

asym_sam_48_dd_rms vs run
χ² / ndf 2047 / 44
p0 934.4 ± 0.9958
1050
1000
950
900
850
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

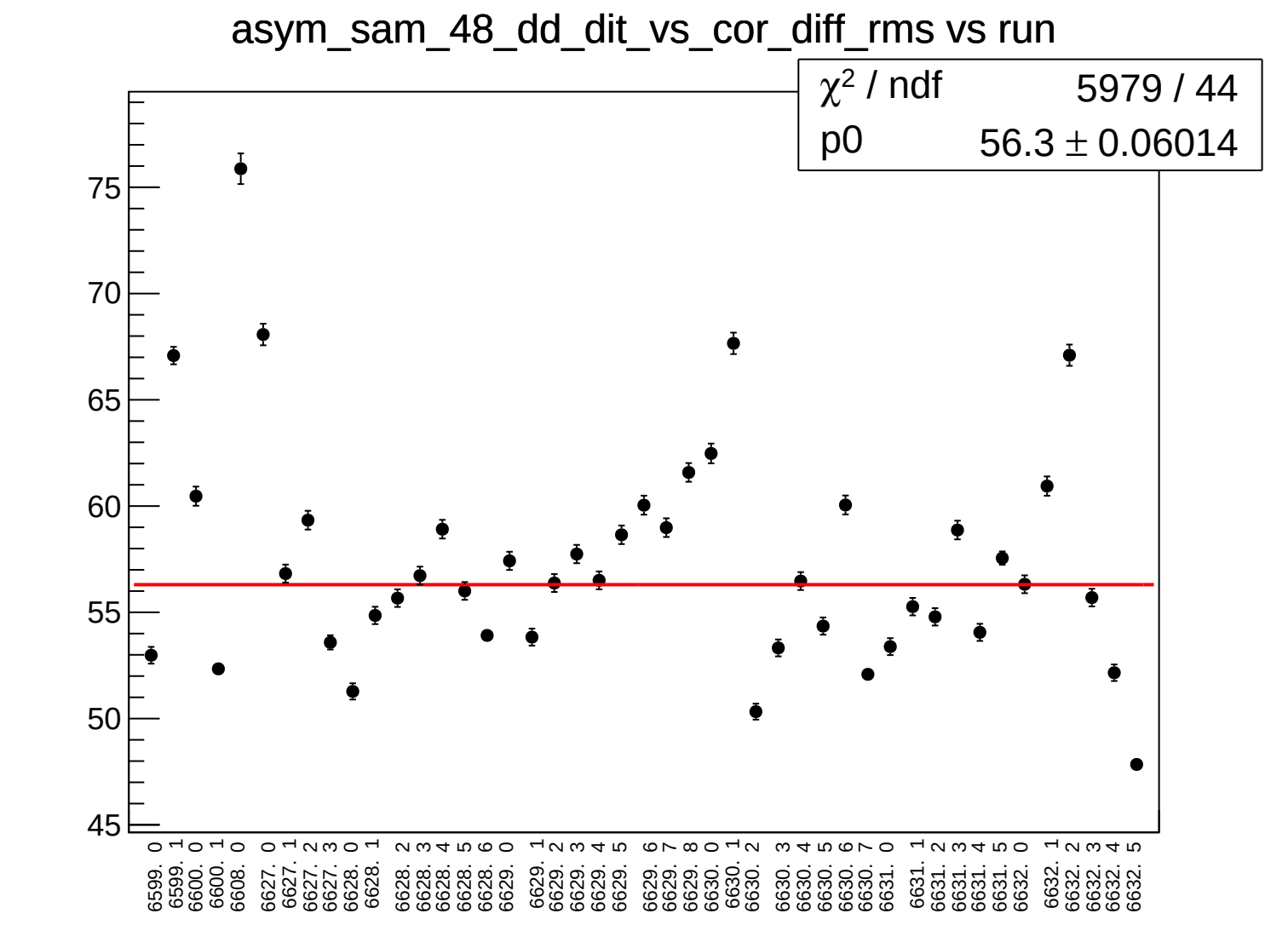

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 59.62 / 44
p0 1.102e−15 ± 4.483e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 61.93
Std Dev 0
3
2
1
0
−1
−2

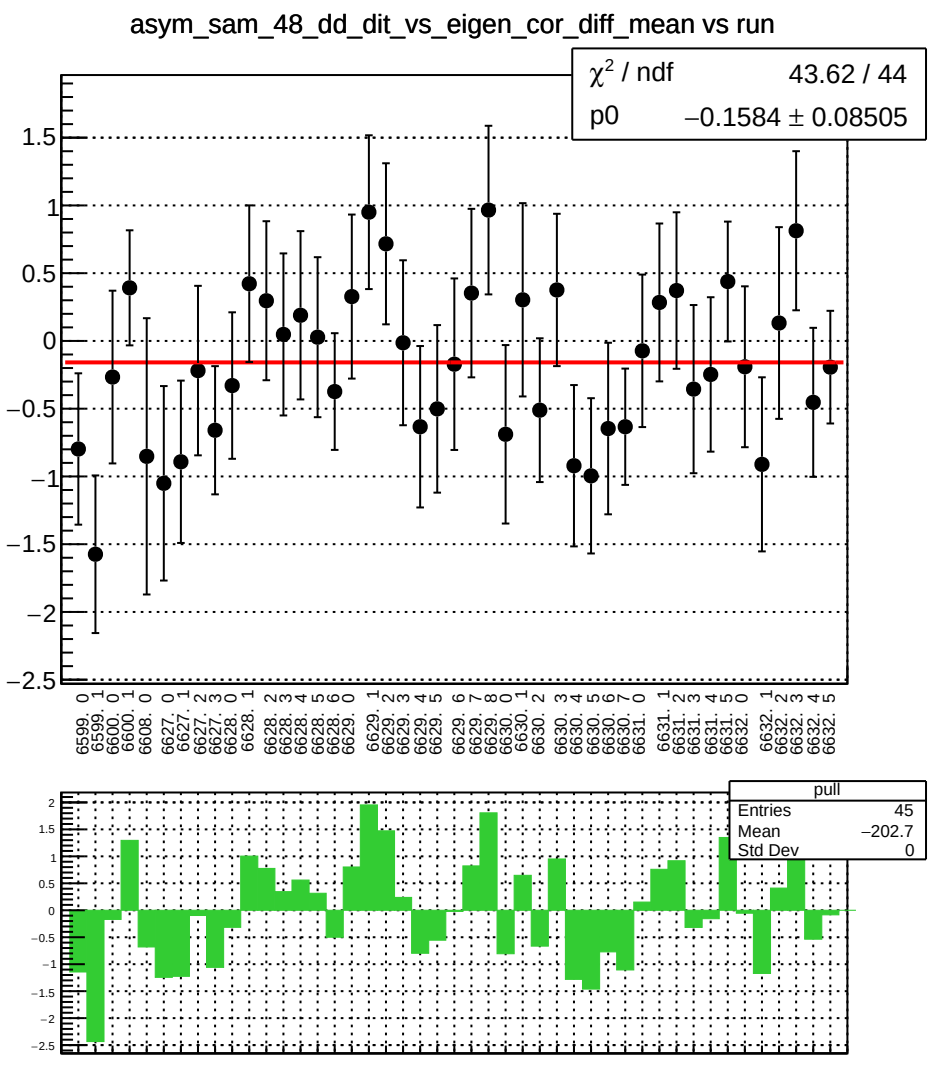

pull1D
Entries 45
Mean −0.03047
Std Dev 1.151
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

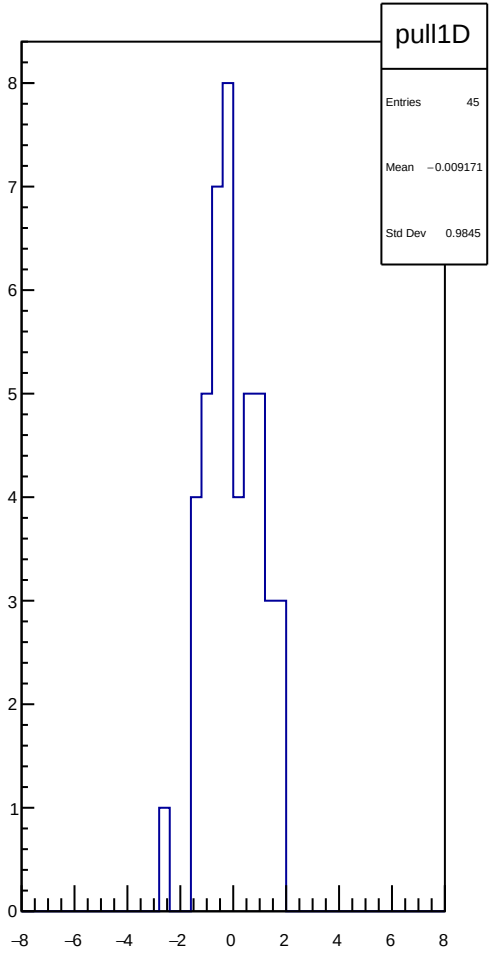

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.166e+05 / 44
p0 2.164e−11 ± 3.17e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

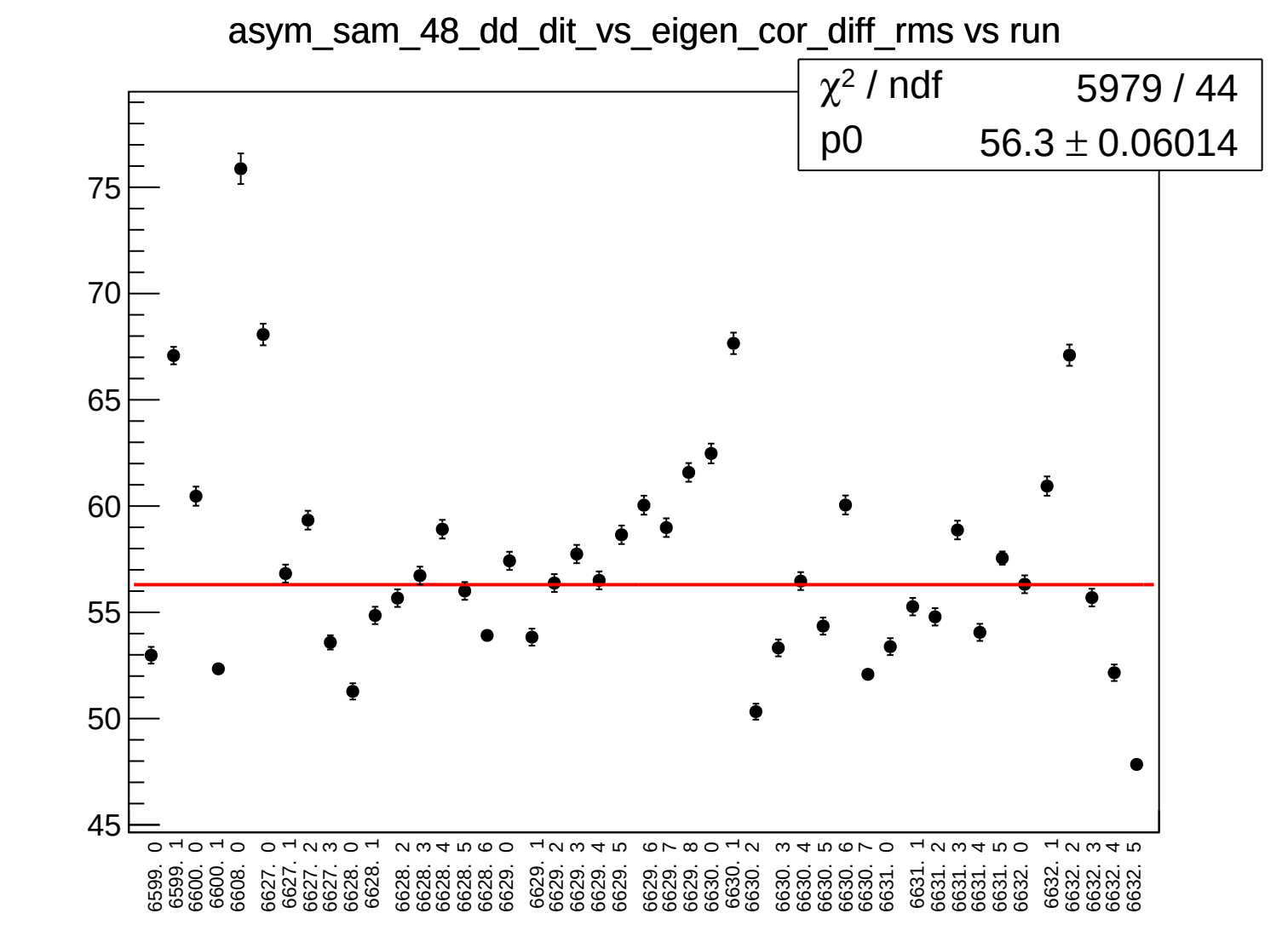

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 43.62 / 44
p0 −0.1584 ± 0.08505
pull
Entries 45
Mean −202.7
Std Dev 0

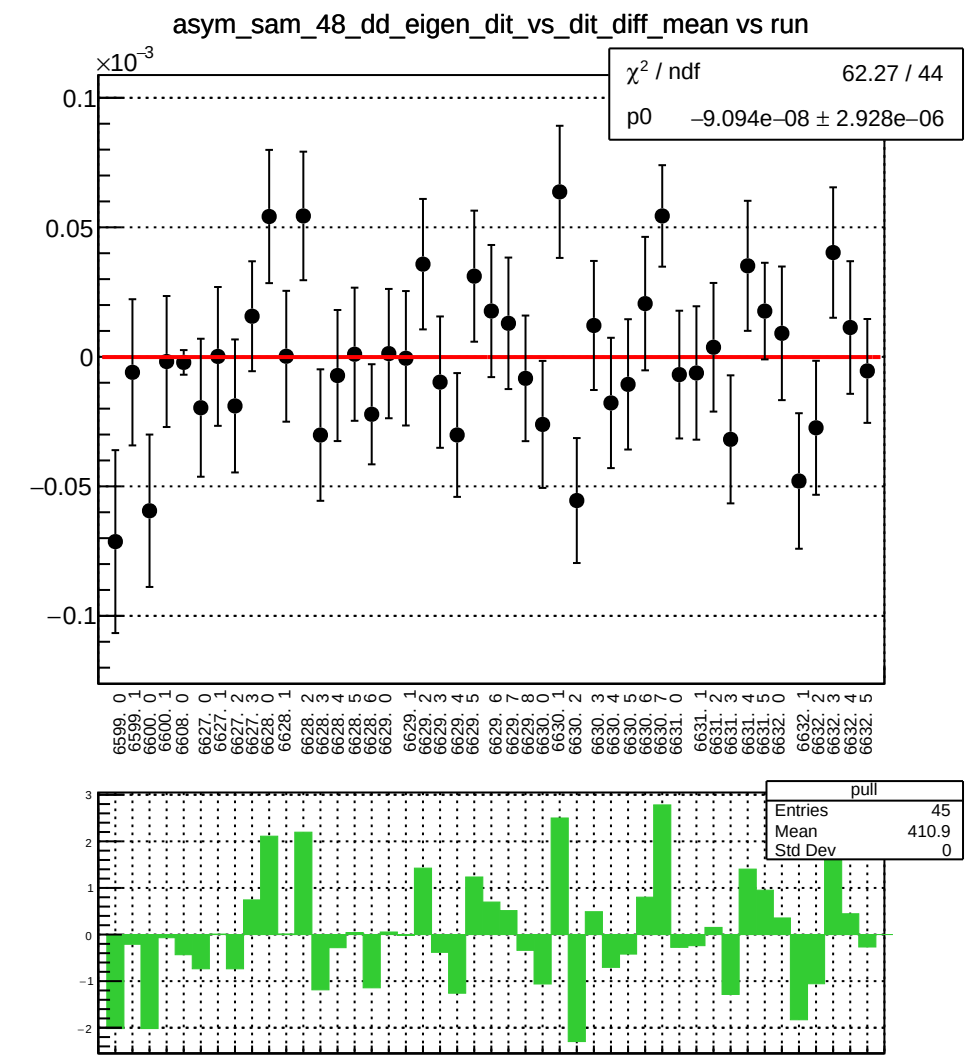

pull1D
Entries 45
Mean −0.009171
Std Dev 0.9845

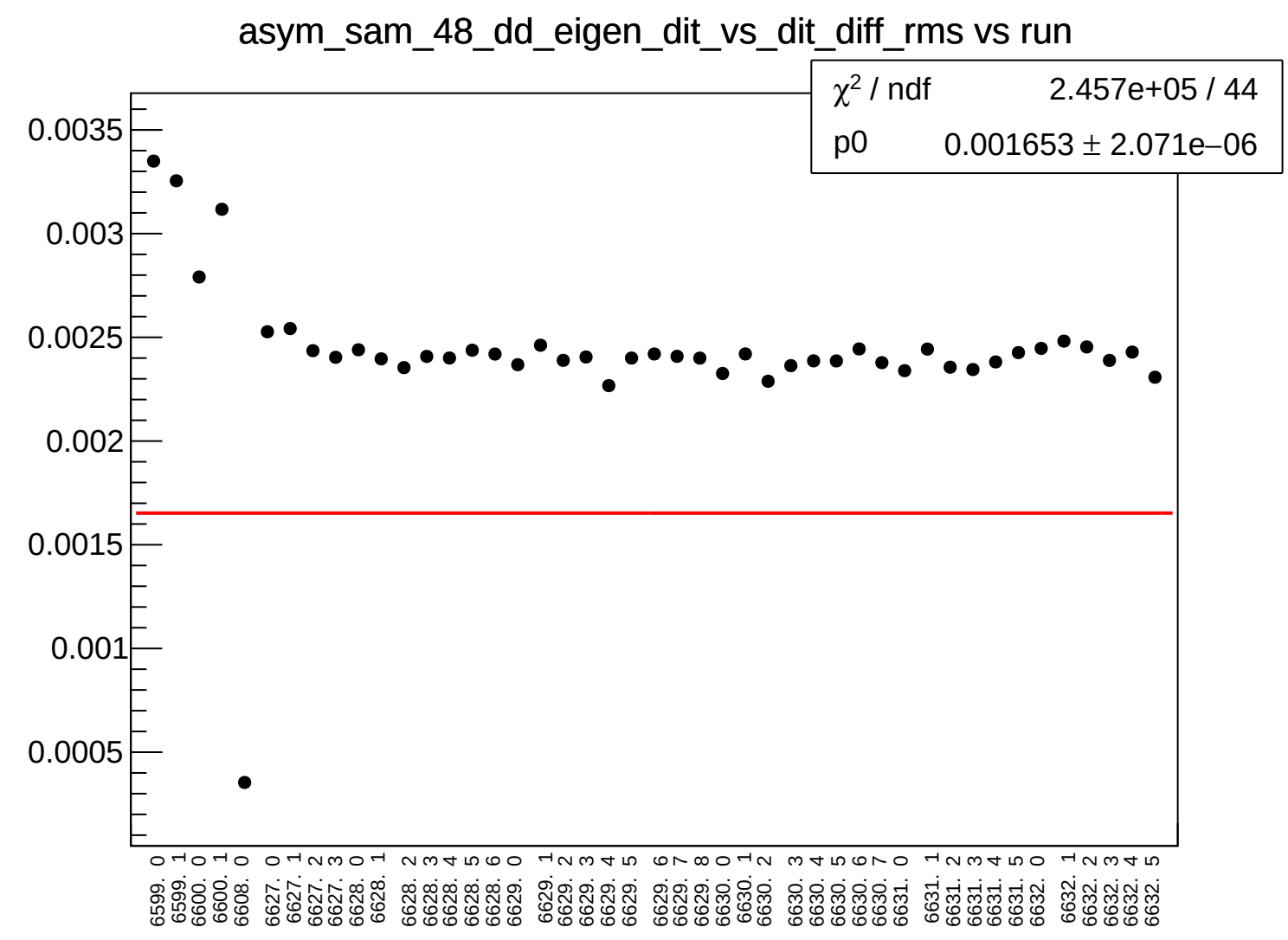

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5979 / 44
p0 56.3 ± 0.06014
75
70
65
60
55
50
45
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

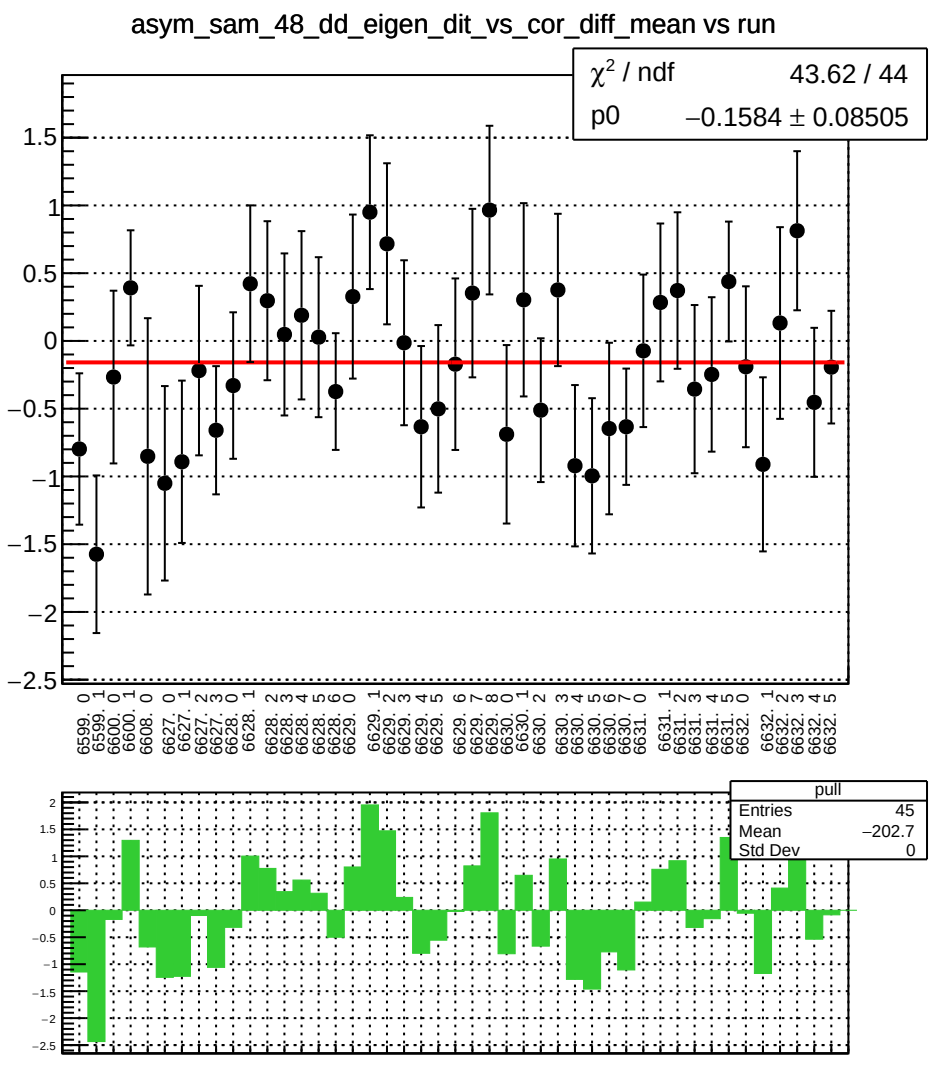

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 43.62 / 44
p0 −0.1584 ± 0.08505
pull
Entries 45
Mean −202.7
Std Dev 0

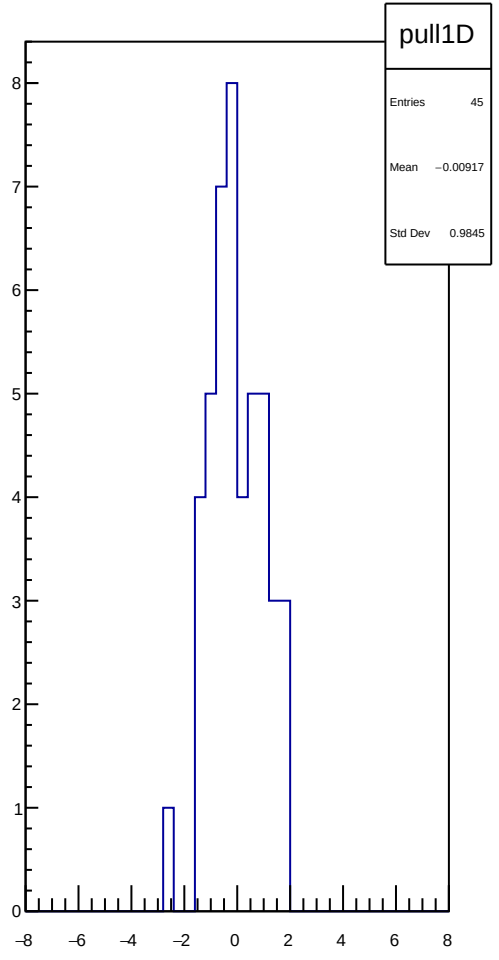

pull1D
Entries 45
Mean −0.009171
Std Dev 0.9845

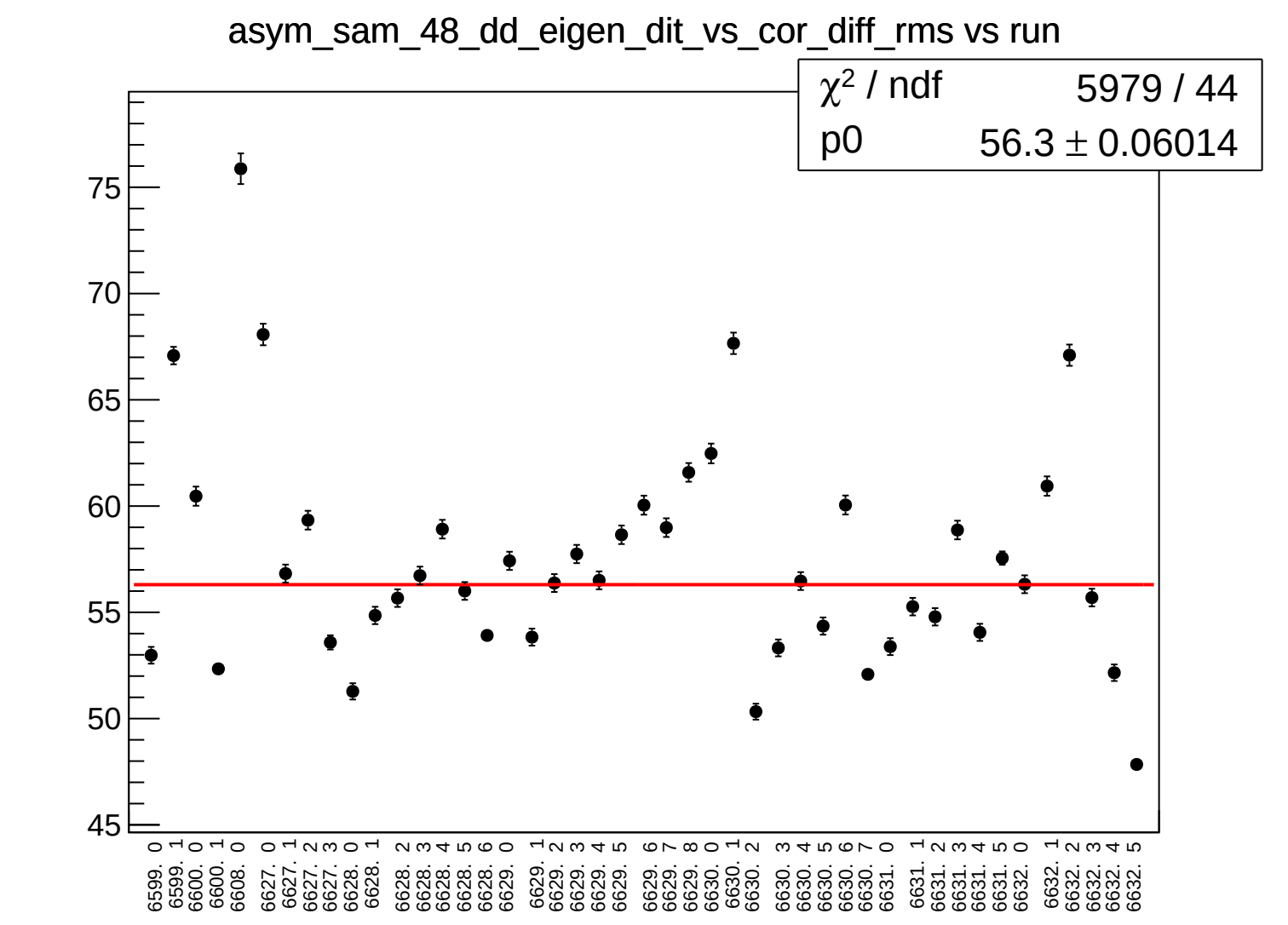

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5979 / 44
p0 56.3 ± 0.06014
75
70
65
60
55
50
45
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

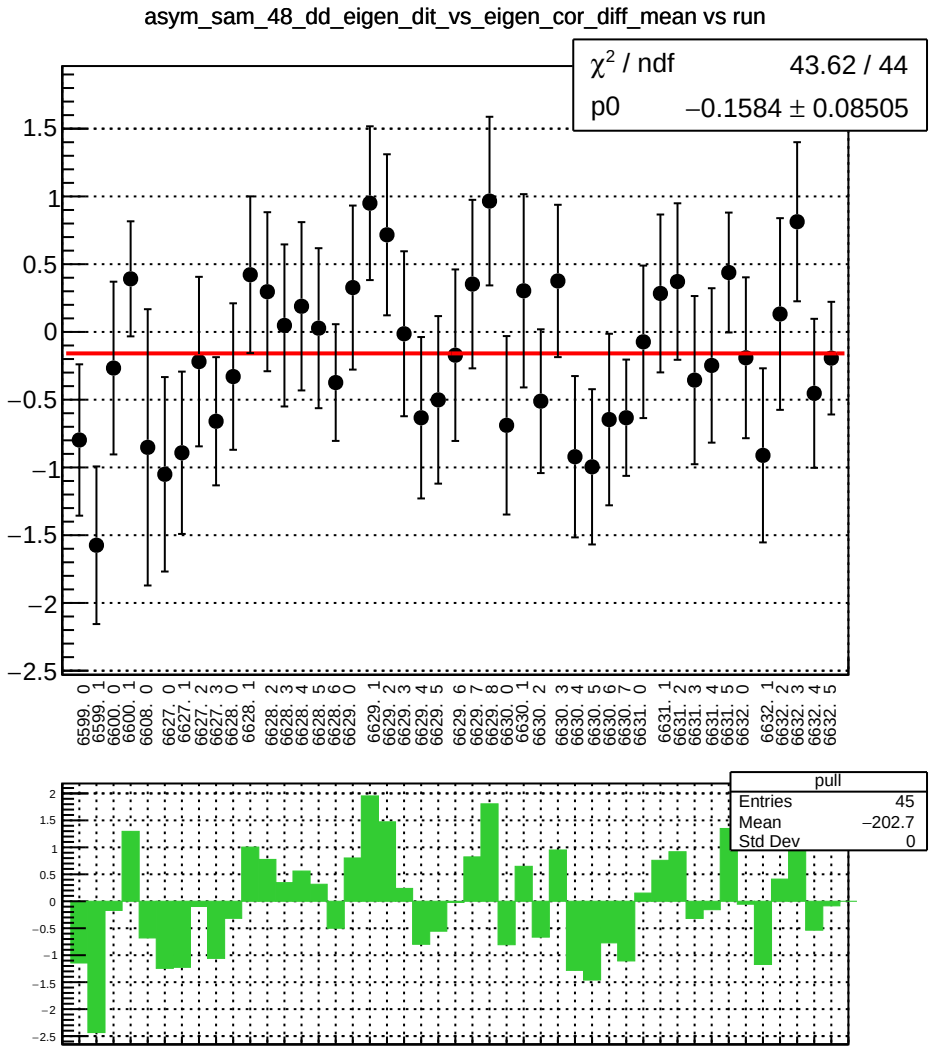

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 62.27 / 44
p0 −9.094e−08 ± 2.928e−06
0.1
0.05
0
−0.05
−0.1
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 410.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.006055
Std Dev 1.176
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

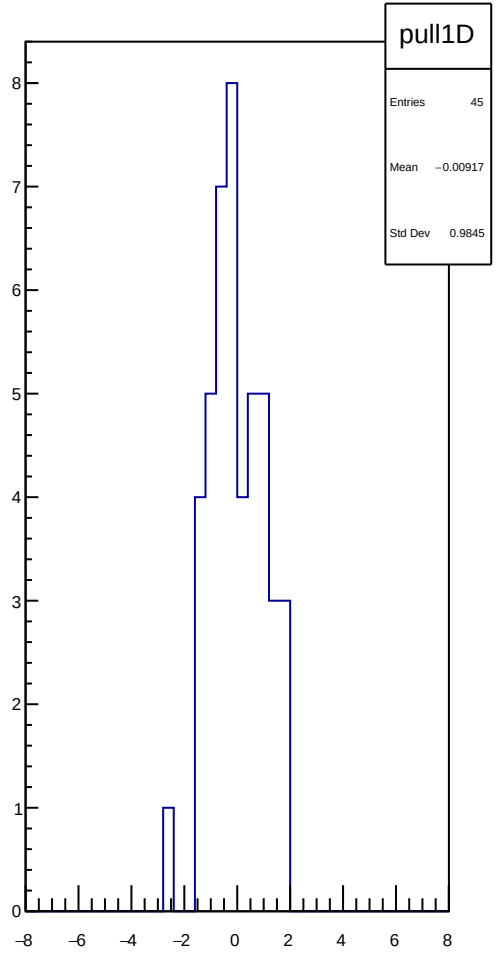

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.457e+05 / 44
p0 0.001653 ± 2.071e−06
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

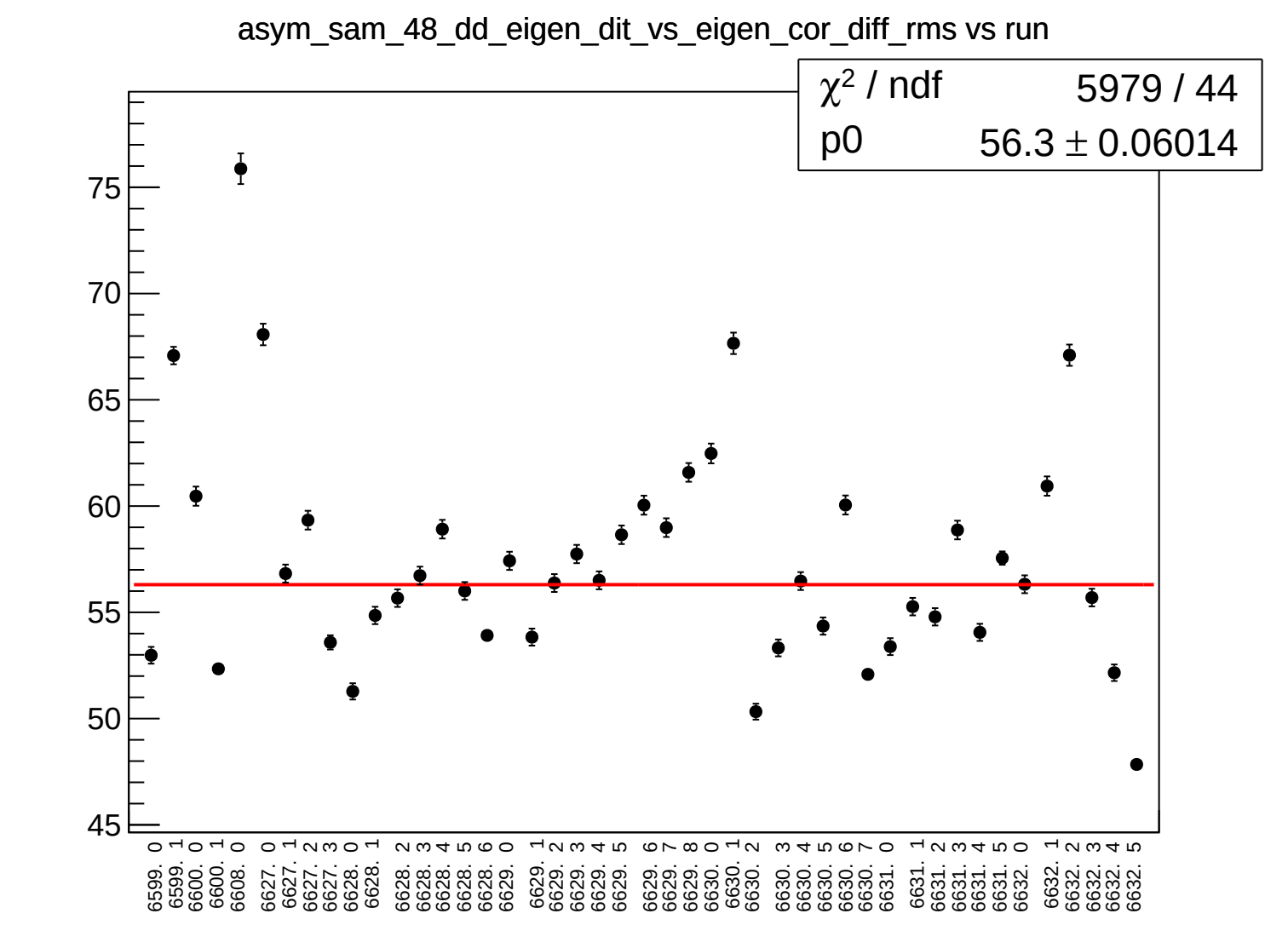

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 43.62 / 44
p0 −0.1584 ± 0.08505
pull
Entries 45
Mean −202.7
Std Dev 0

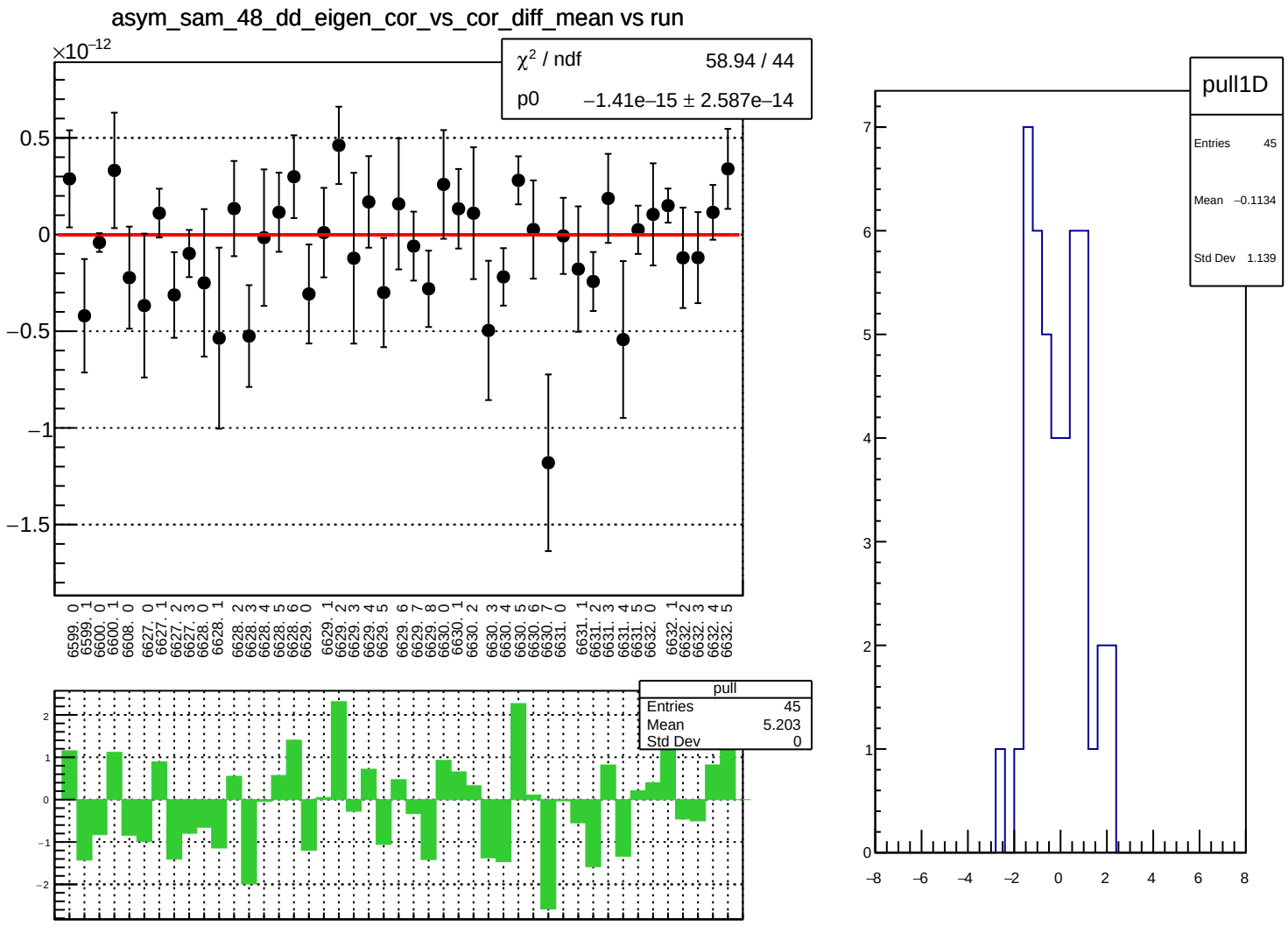

pull1D
Entries 45
Mean −0.00917
Std Dev 0.9845

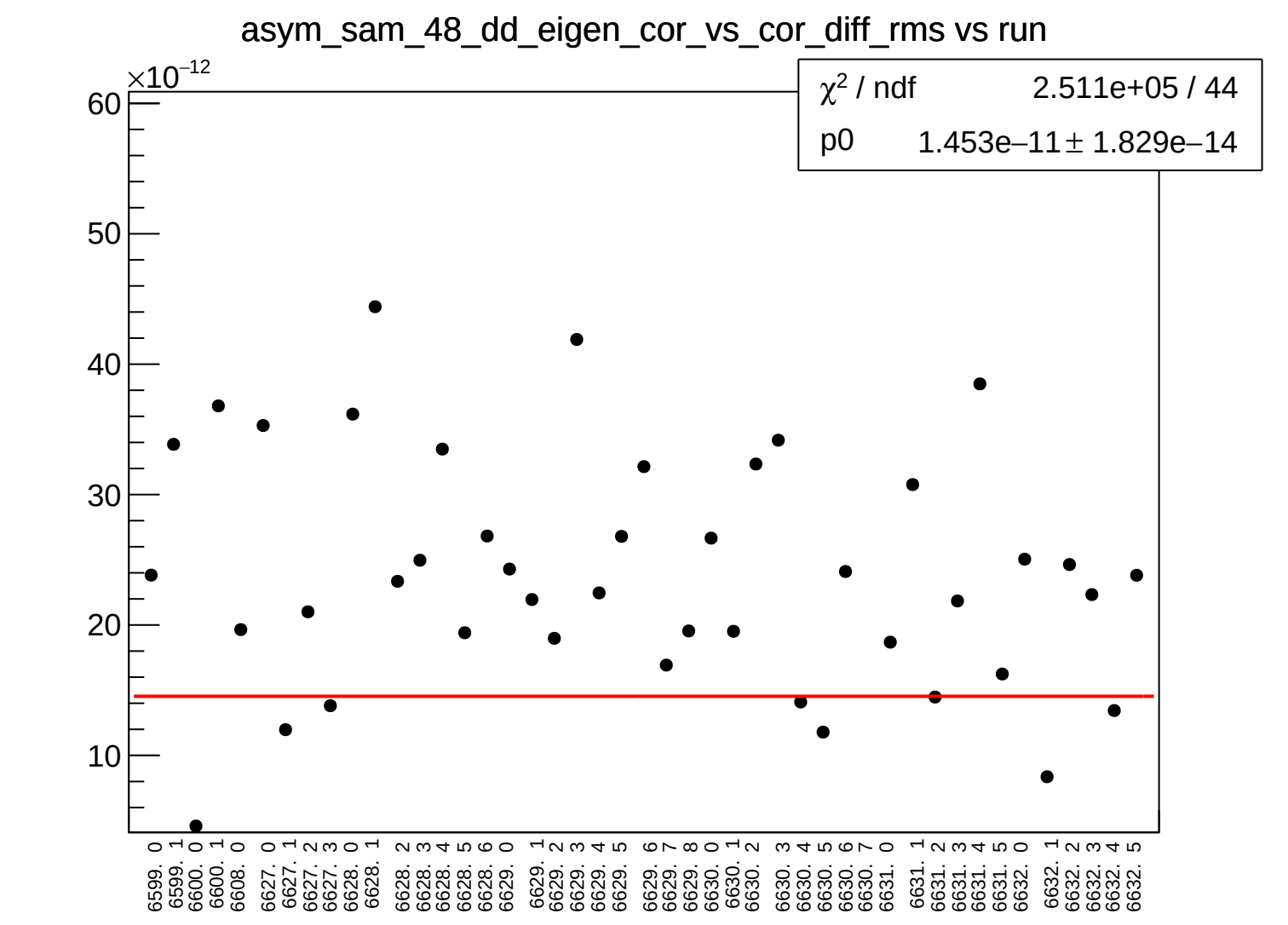

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5979 / 44
p0 56.3 ± 0.06014
75
70
65
60
55
50
45
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

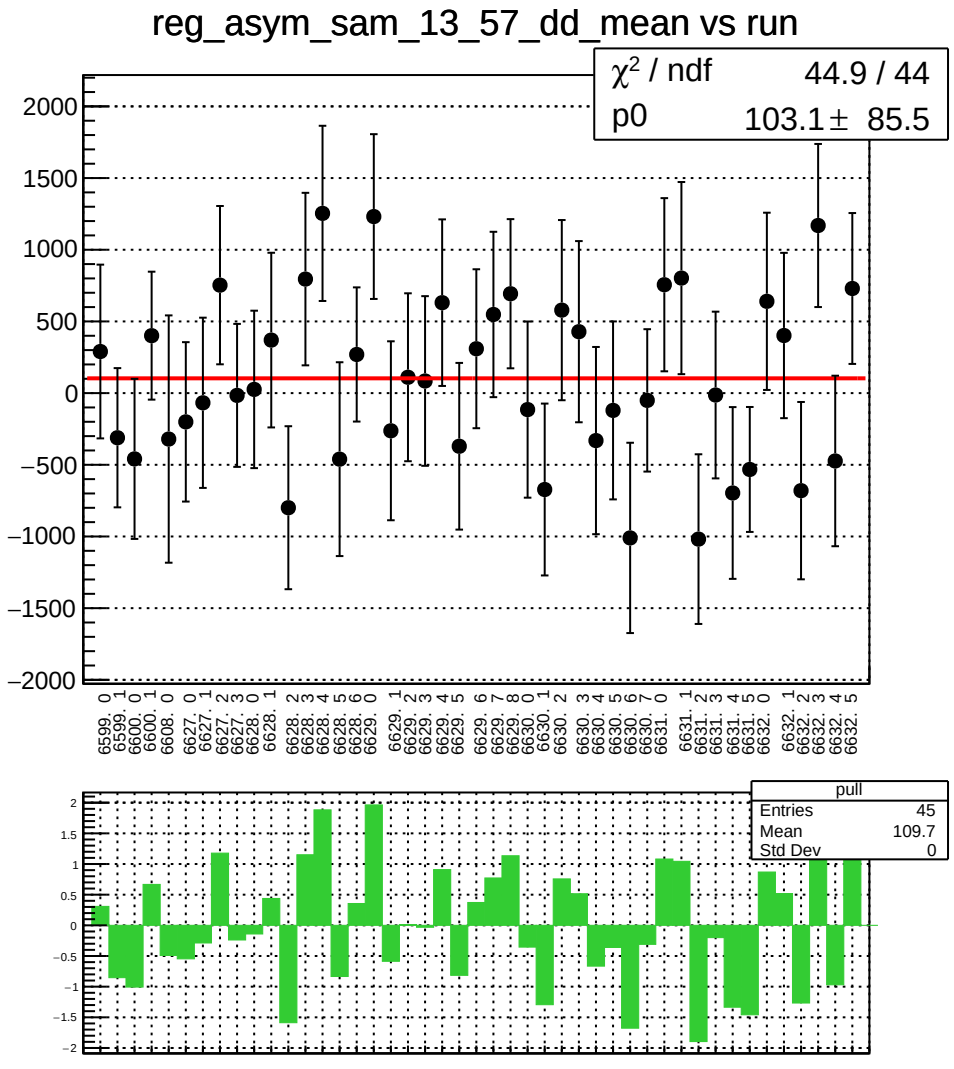

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 43.62 / 44
p0 −0.1584 ± 0.08505
pull
Entries 45
Mean −202.7
Std Dev 0

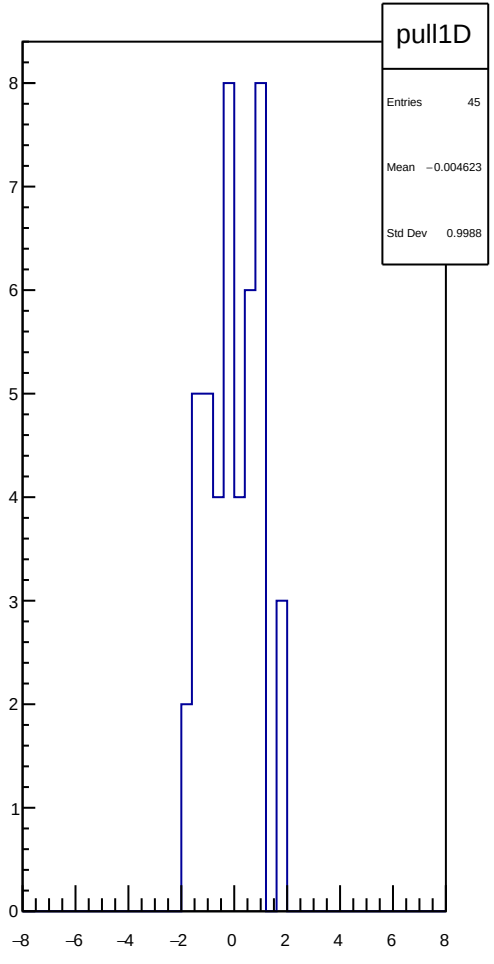

pull1D
Entries 45
Mean −0.00917
Std Dev 0.9845

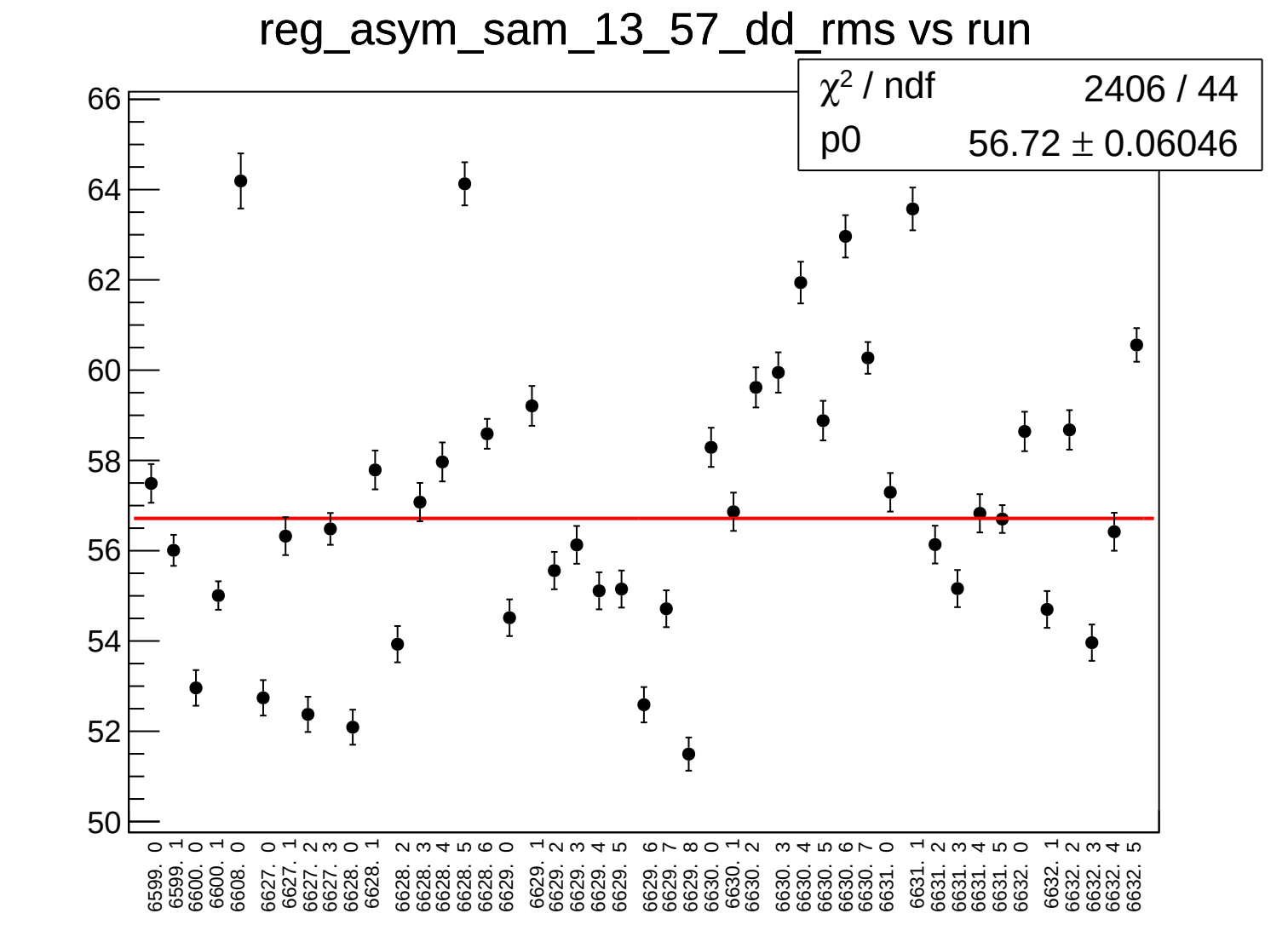

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5979 / 44
p0 56.3 ± 0.06014
75
70
65
60
55
50
45
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 58.94 / 44
p0 −1.41e−15 ± 2.587e−14
0.5
0
−0.5
−1
−1.5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 5.203
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.1134
Std Dev 1.139
7
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^−12
χ² / ndf 2.511e+05 / 44
p0 1.453e−11 ± 1.829e−14
60
50
40
30
20
10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 44.9 / 44
p0 103.1 ± 85.5
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 109.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.004623
Std Dev 0.9988
8
7
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 2406 / 44
p0 56.72 ± 0.06046
66
64
62
60
58
56
54
52
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
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6628. 6
6629. 0
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6629. 2
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6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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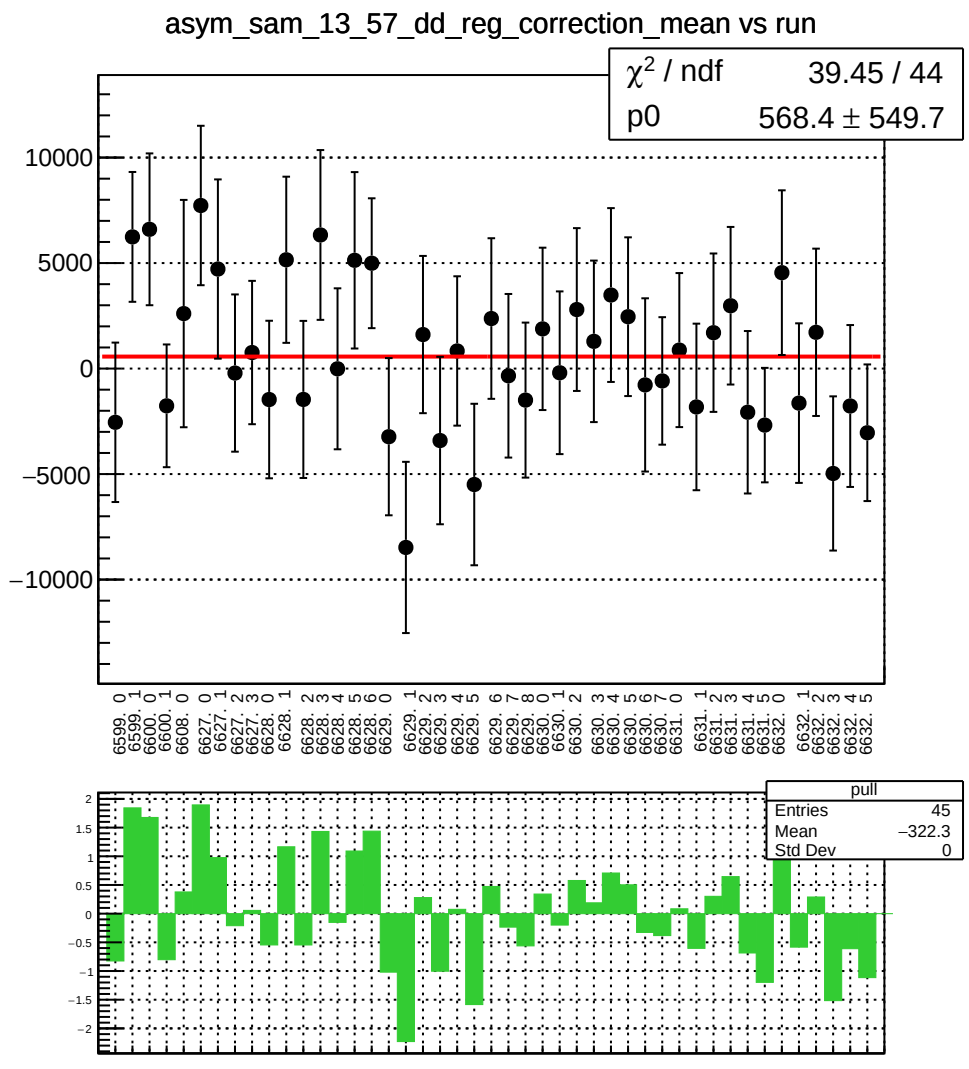
6632. 5


asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 39.45 / 44
p0 568.4 ± 549.7
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
6629. 3
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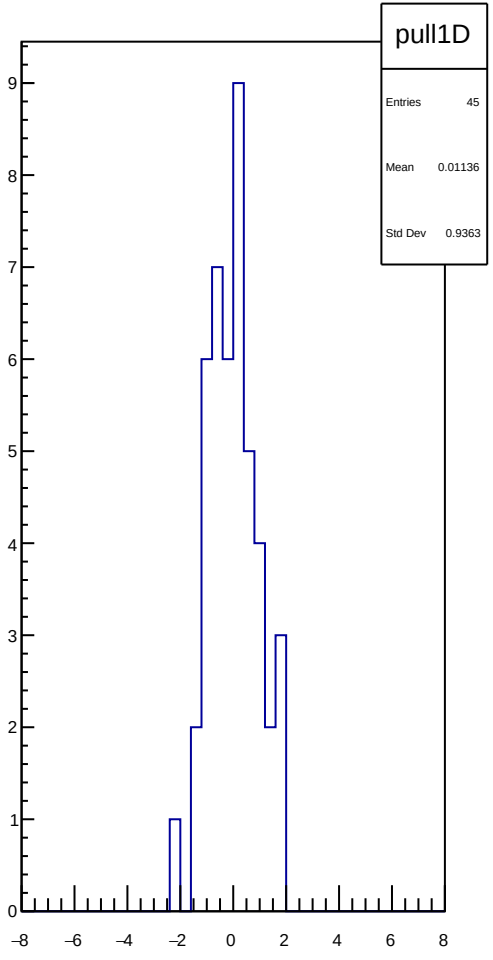
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −322.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.01136
Std Dev 0.9363
9
8
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5
4
3
2
1
0
−8
−6
−4
−2
0
2
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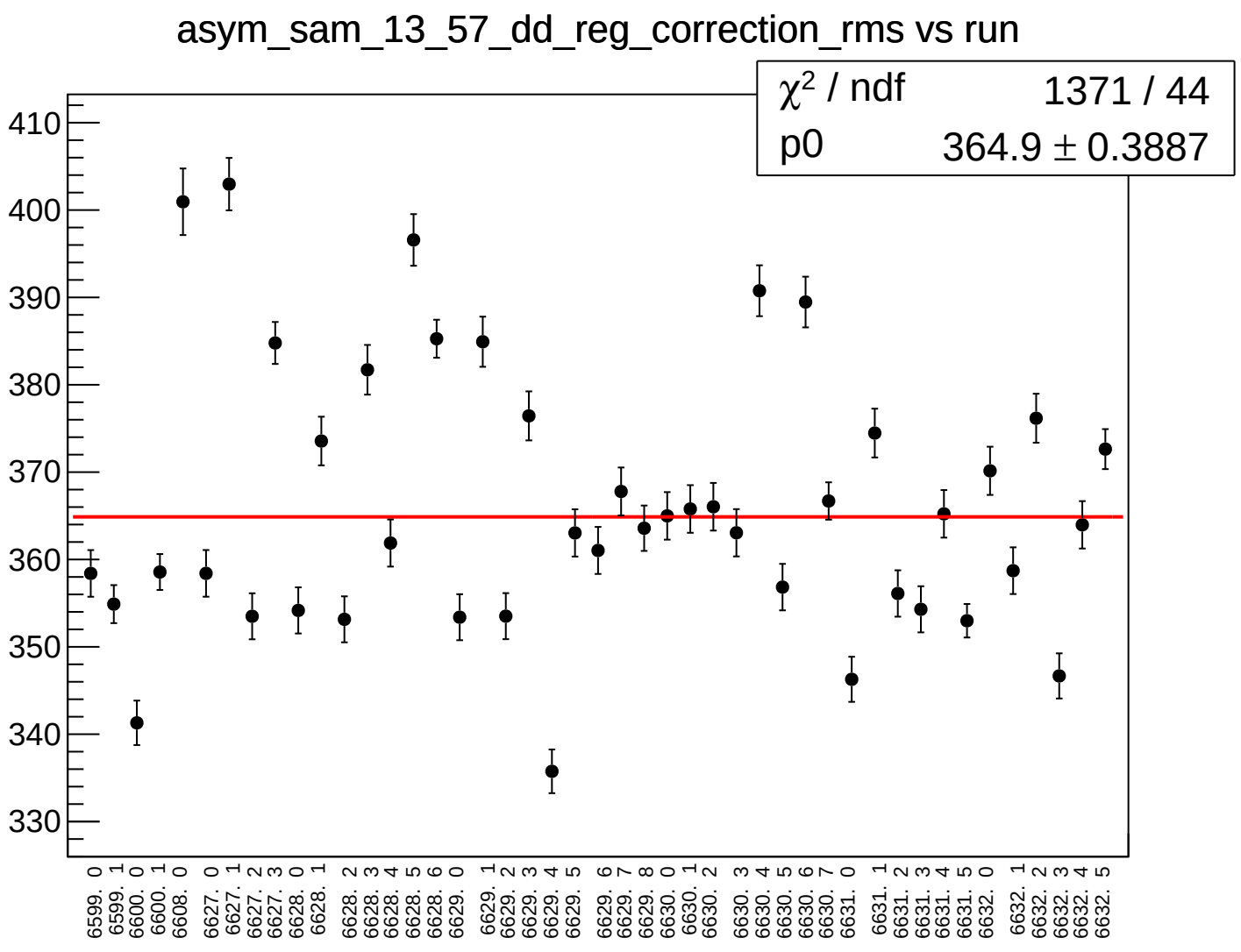
6
8


asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 1371 / 44
p0 364.9 ± 0.3887
410
400
390
380
370
360
350
340
330
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 2
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6628. 6
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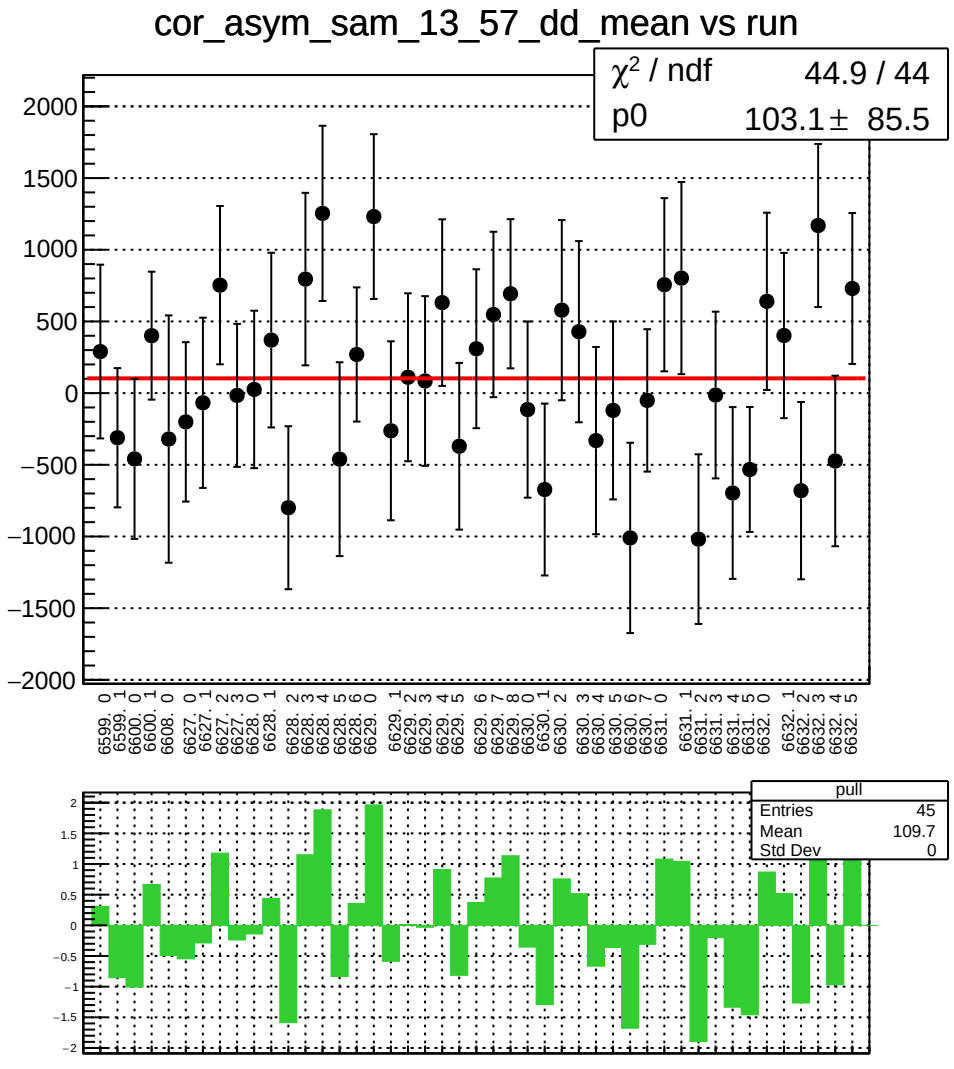
cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 44.9 / 44
p0 103.1 ± 85.5
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
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6630. 2
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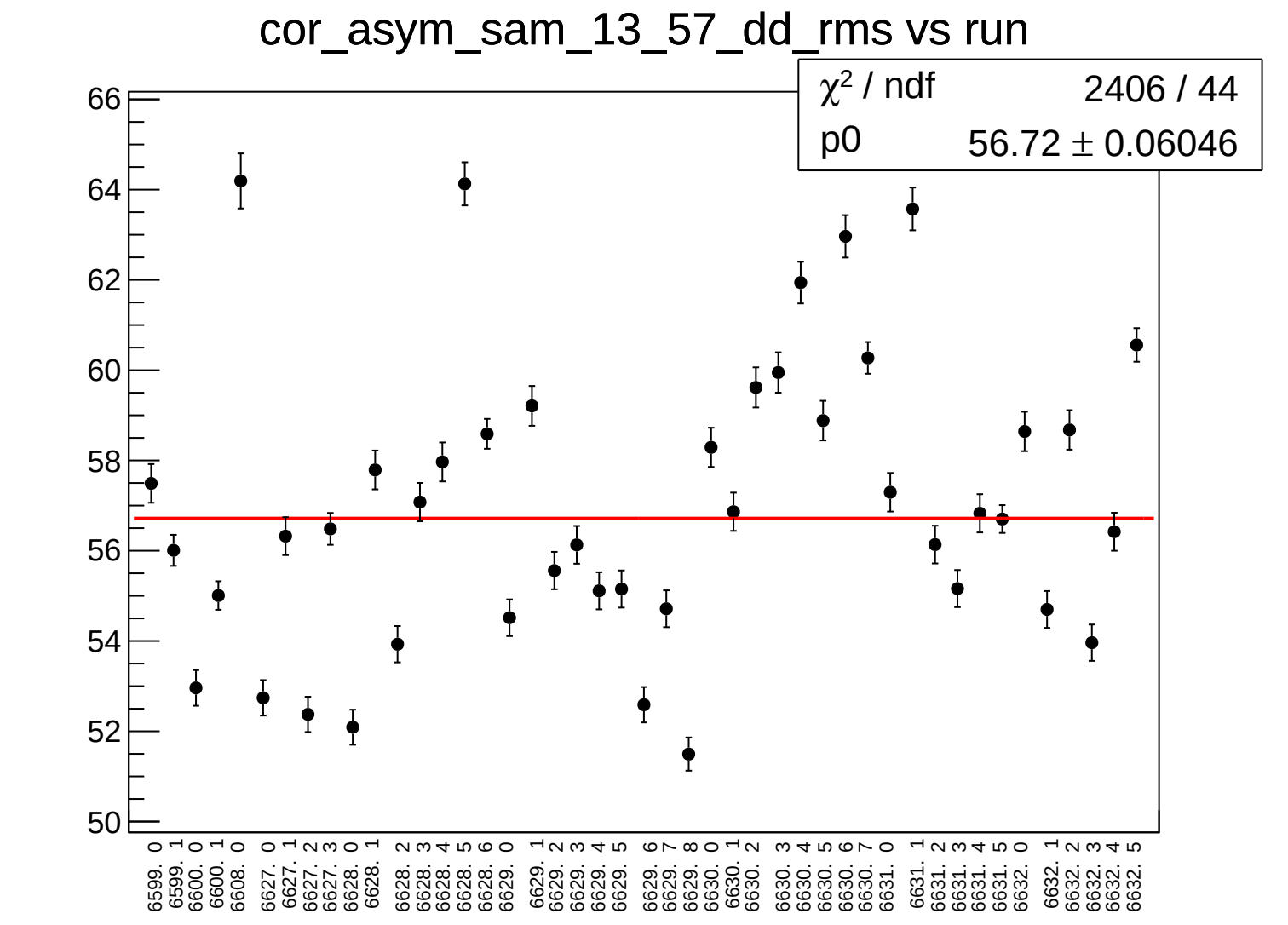
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 109.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.004623
Std Dev 0.9988
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 2406 / 44
p0 56.72 ± 0.06046
66
64
62
60
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56
54
52
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 2
6627. 3
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6628. 6
6629. 0
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6629. 8
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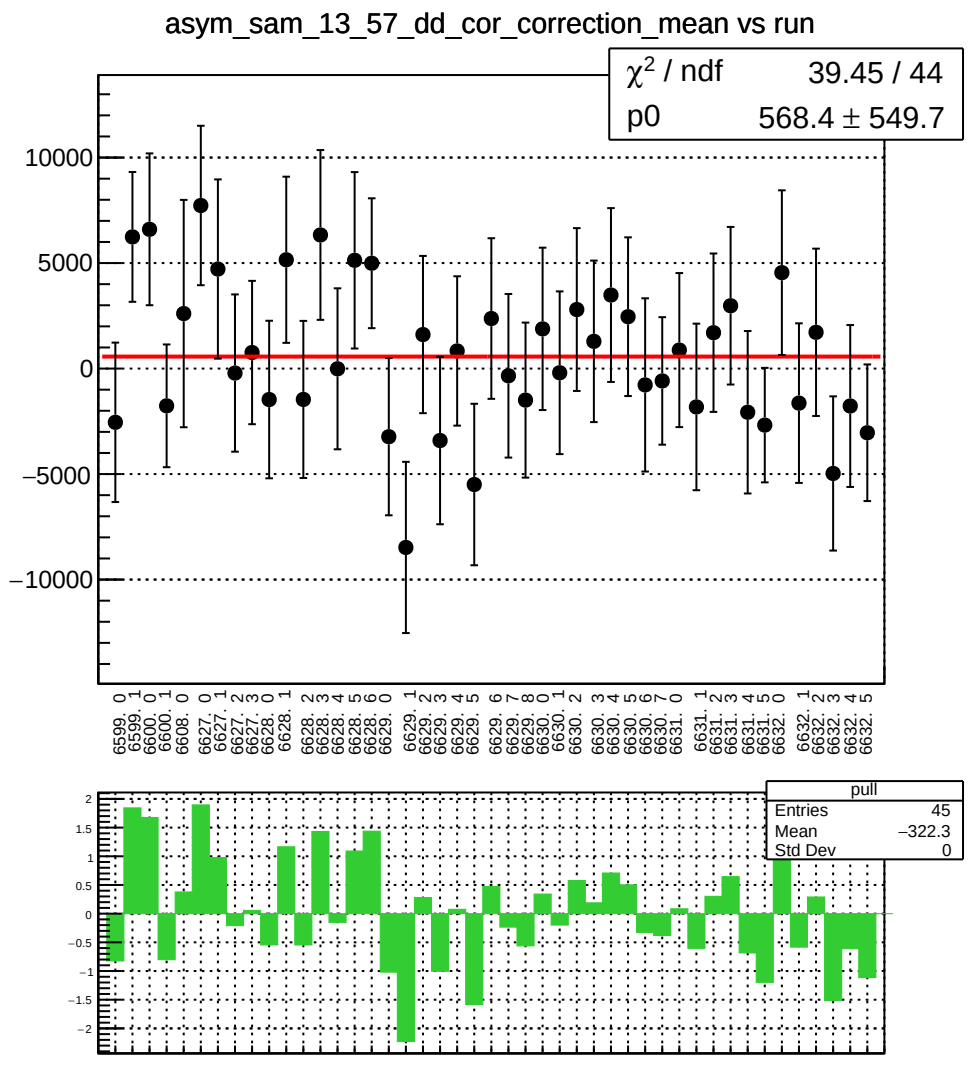
6632. 5


asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 39.45 / 44
p0 568.4 ± 549.7
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −322.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01136
Std Dev 0.9363
9
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3
2
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−4
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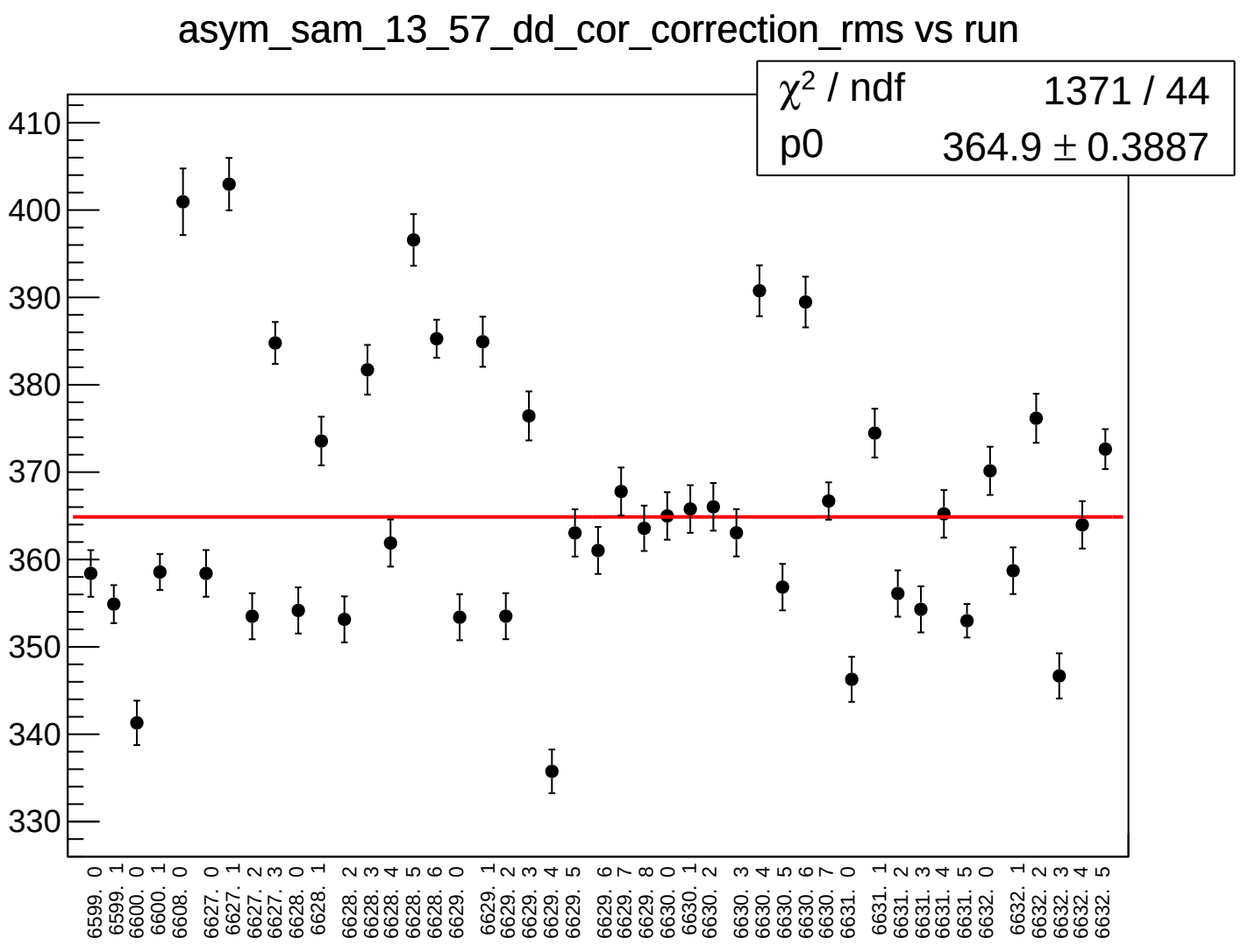
asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 1371 / 44
p0 364.9 ± 0.3887
410
400
390
380
370
360
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6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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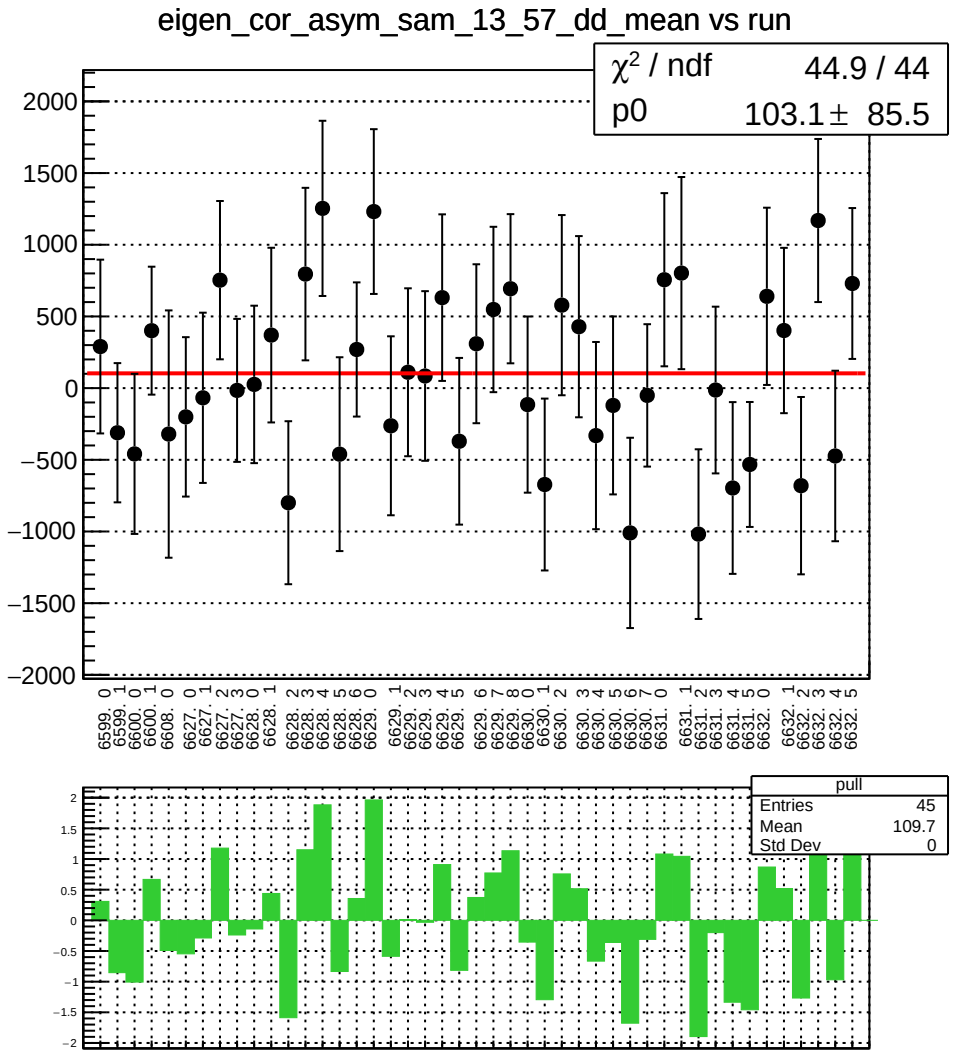
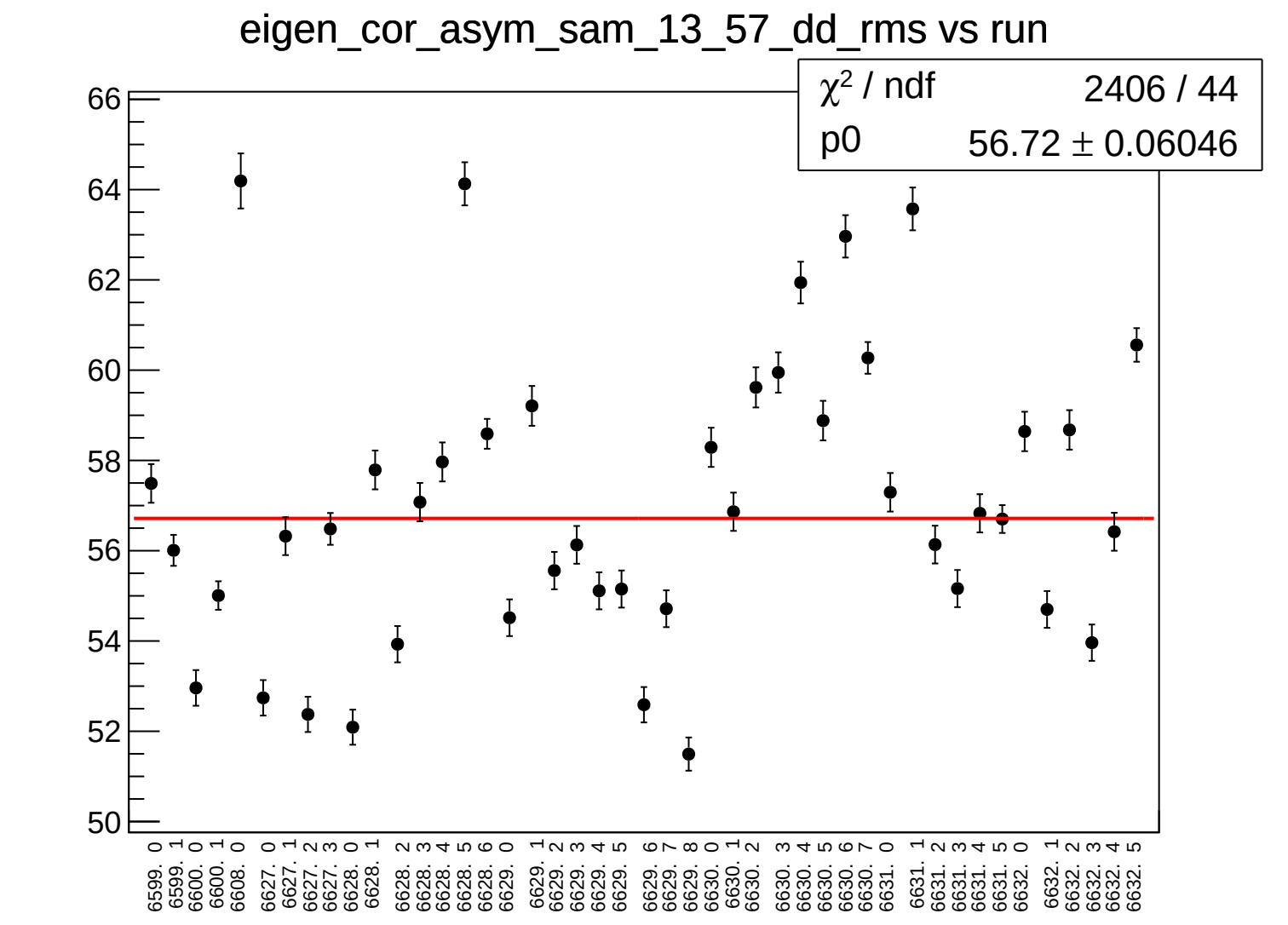
6632. 4
6632. 5


eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 44.9 / 44
p0 103.1 ± 85.5
pull
Entries 45
Mean 109.7
Std Dev 0
pull1D
Entries 45
Mean −0.004623
Std Dev 0.9988


eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 2406 / 44
p0 56.72 ± 0.06046
66
64
62
60
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52
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6599. 0
6599. 1
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6600. 1
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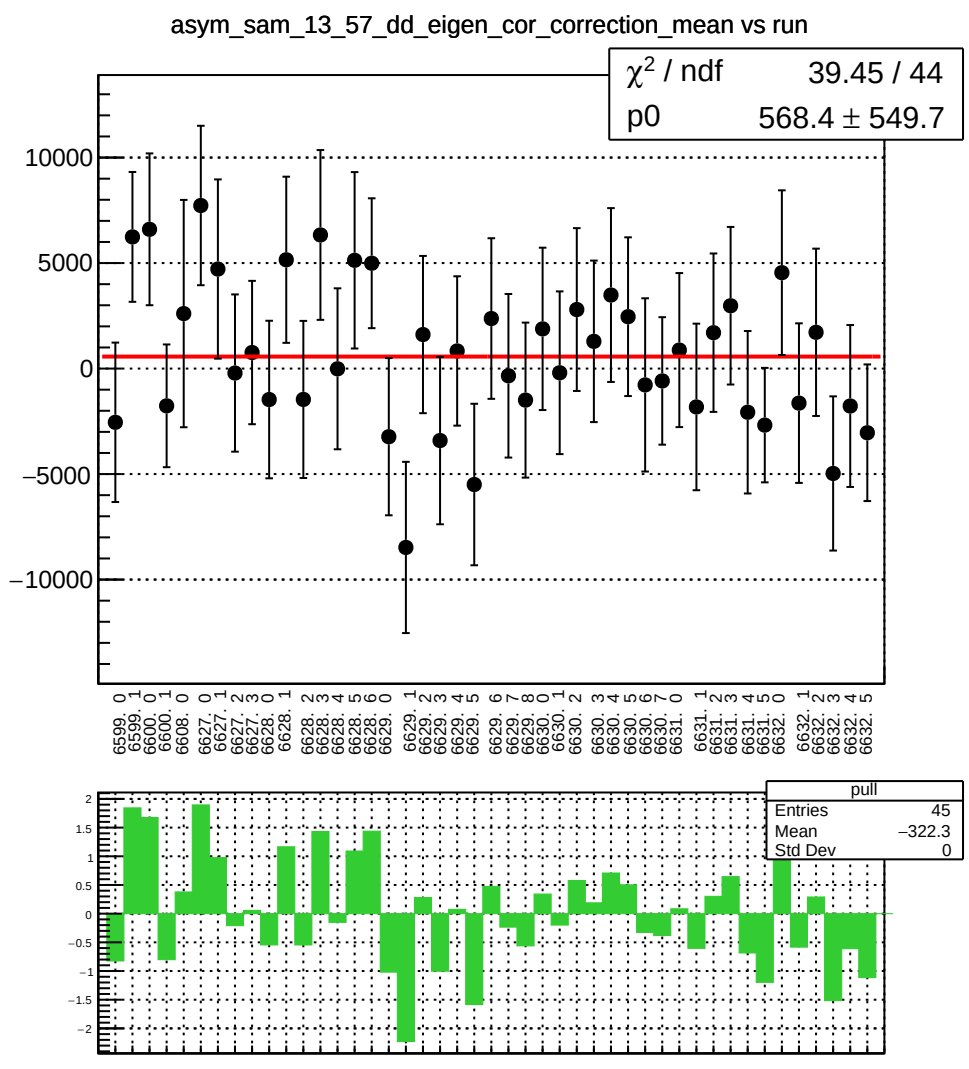
6632. 5


asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 39.45 / 44
p0 568.4 ± 549.7
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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6630. 6
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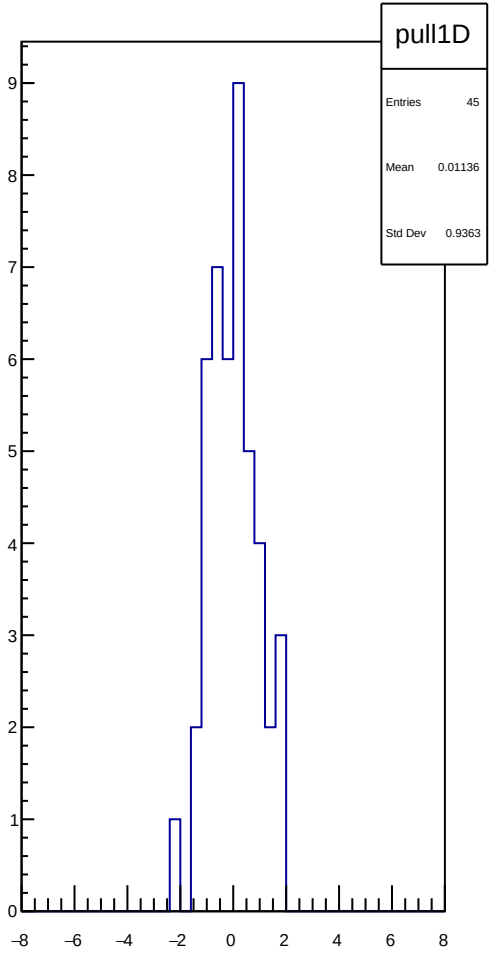
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −322.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.01136
Std Dev 0.9363
9
8
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5
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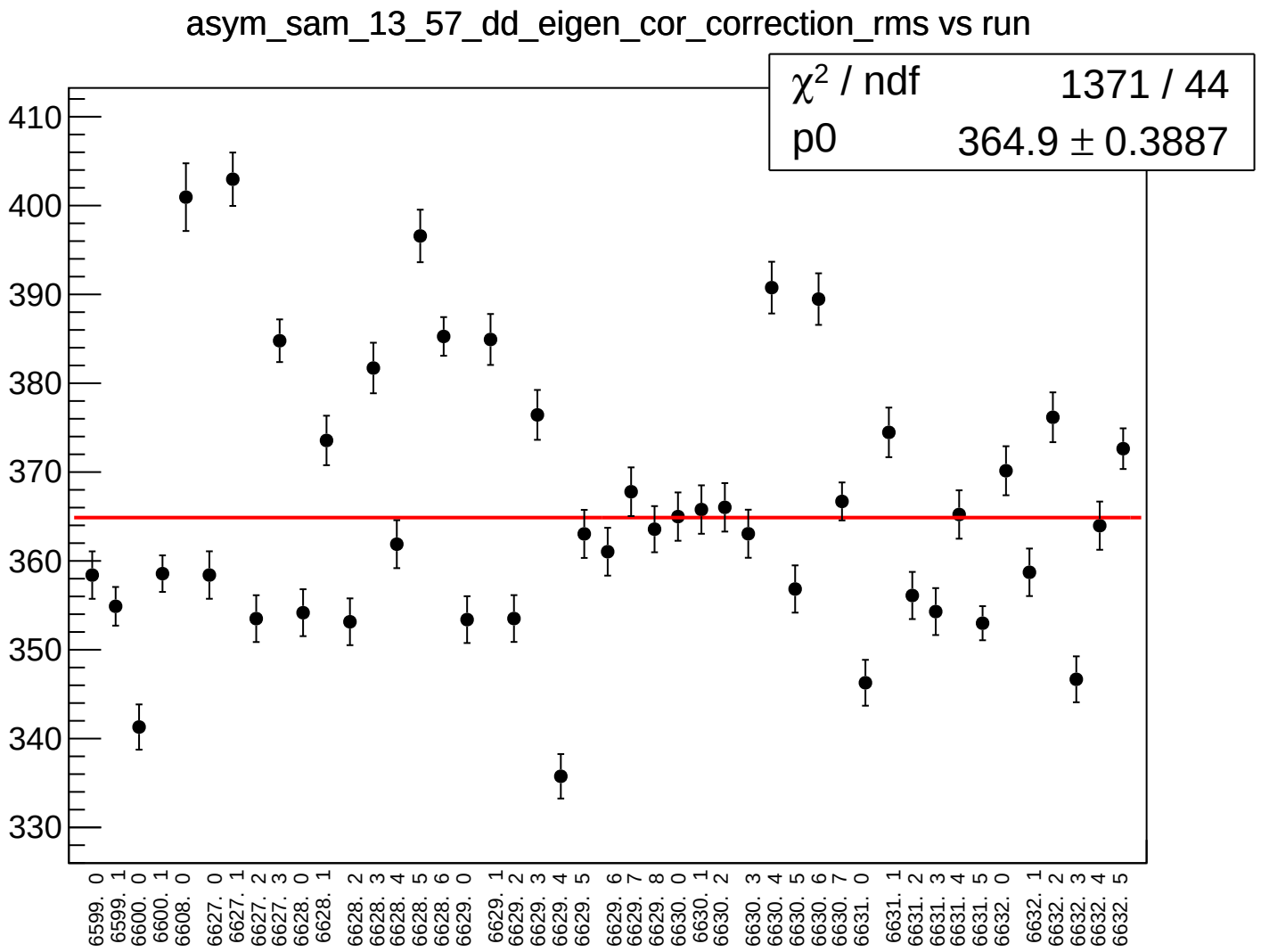
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 1371 / 44
p0 364.9 ± 0.3887
410
400
390
380
370
360
350
340
330
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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6629. 6
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6630. 0
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6630. 3
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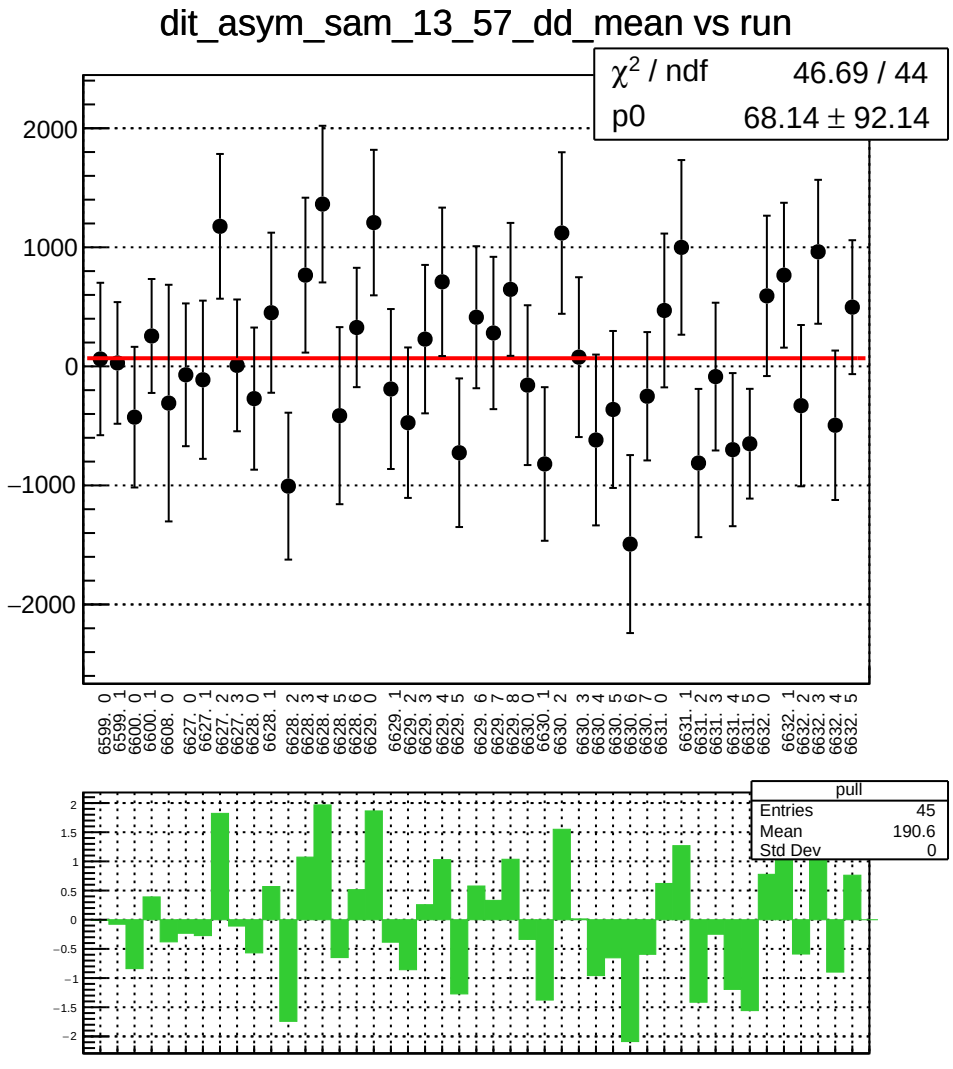
6632. 4
6632. 5


dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 46.69 / 44
p0 68.14 ± 92.14
2000
1000
0
−1000
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6630. 6
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 190.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.005208
Std Dev 1.019
9
8
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5
4
3
2
1
0
−8
−6
−4
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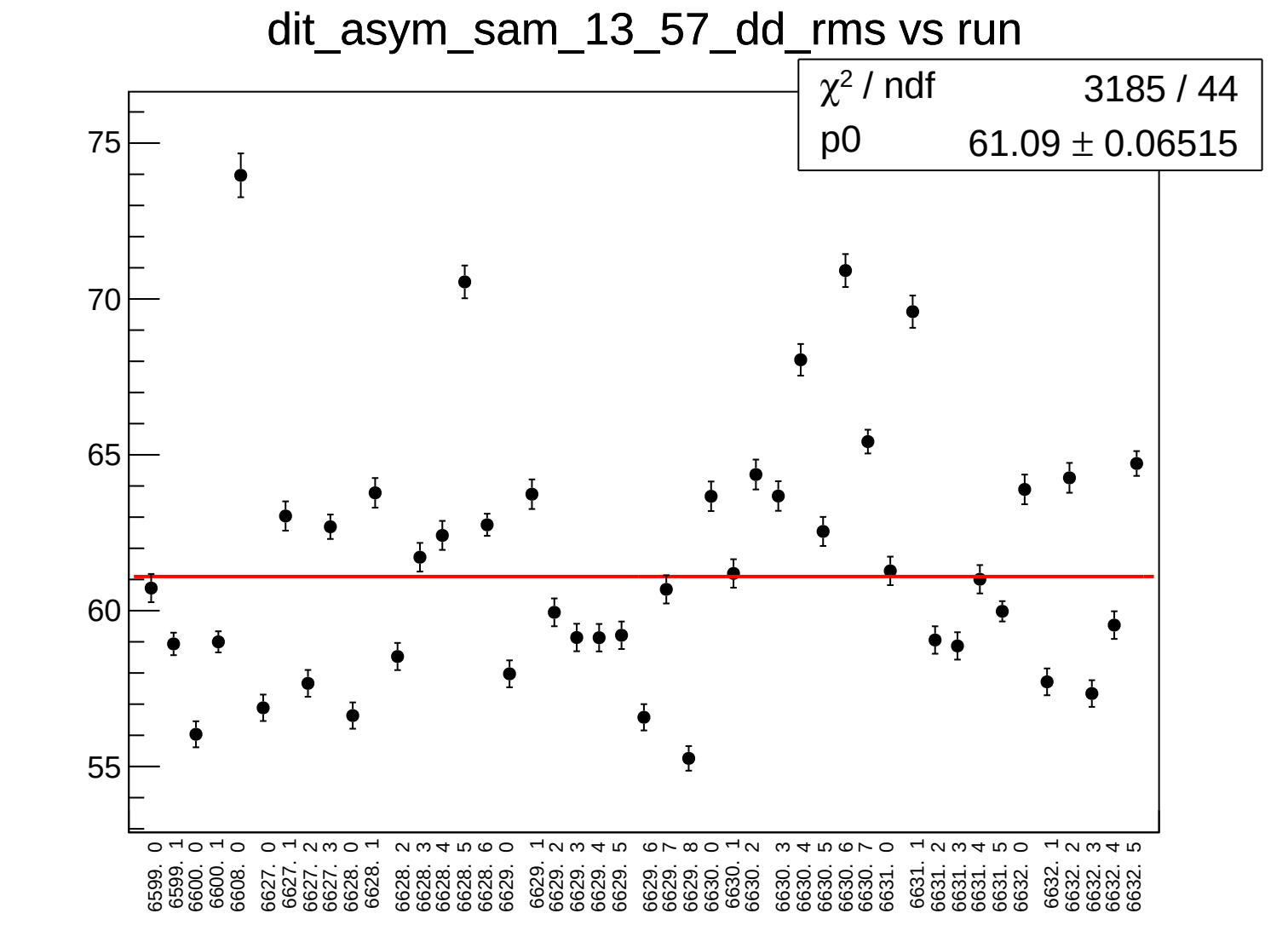
0
2
4
6
8


dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 3185 / 44
p0 61.09 ± 0.06515
75
70
65
60
55
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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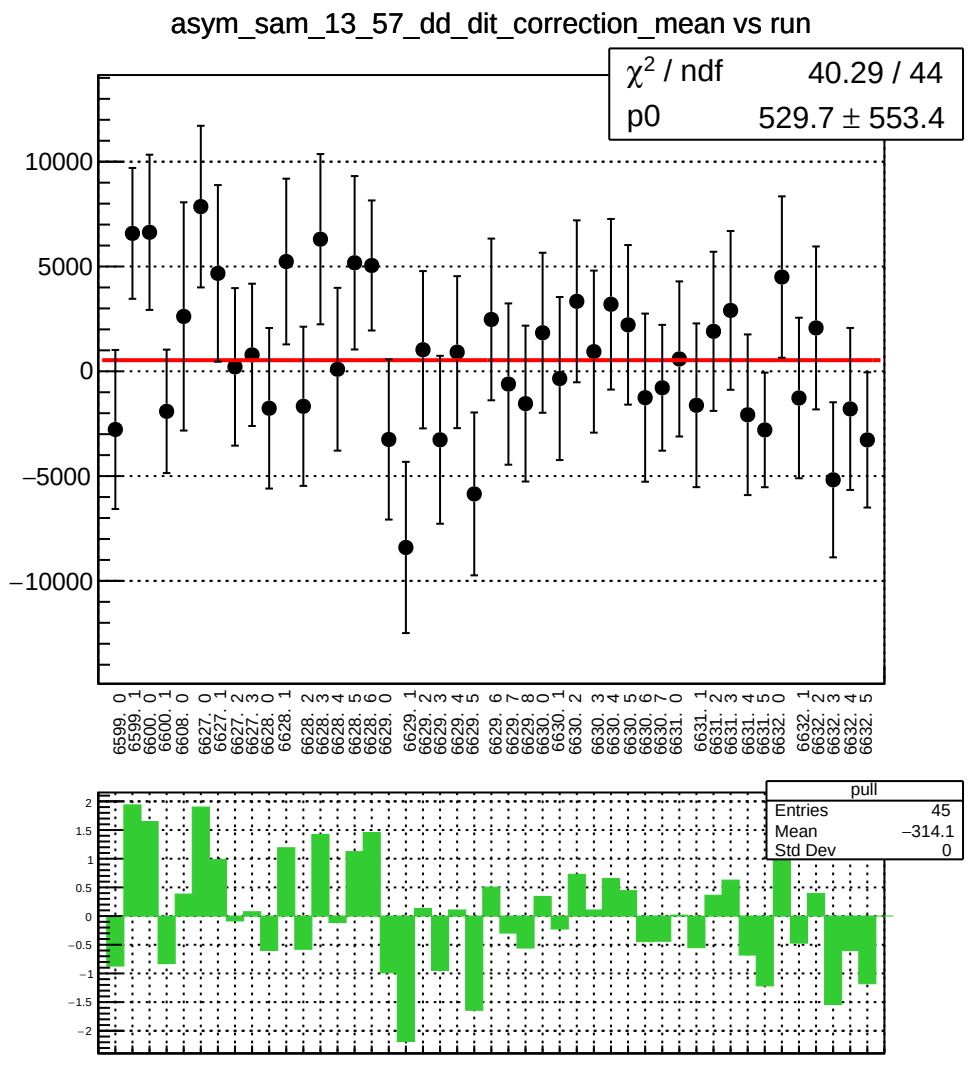
6632. 5


asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 40.29 / 44
p0 529.7 ± 553.4
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −314.1
Std Dev 0
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1.5
1
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0
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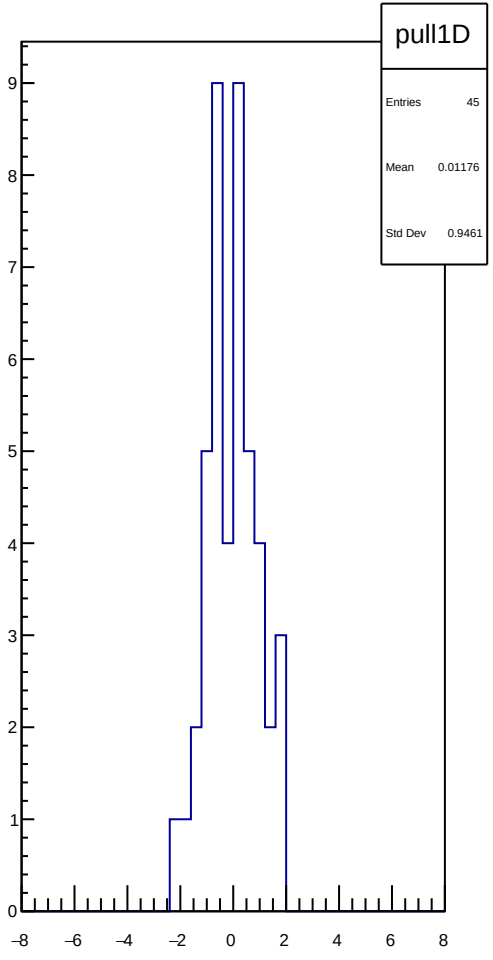
−1
−1.5
−2


pull1D
Entries 45
Mean 0.01176
Std Dev 0.9461
9
8
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4
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1
0
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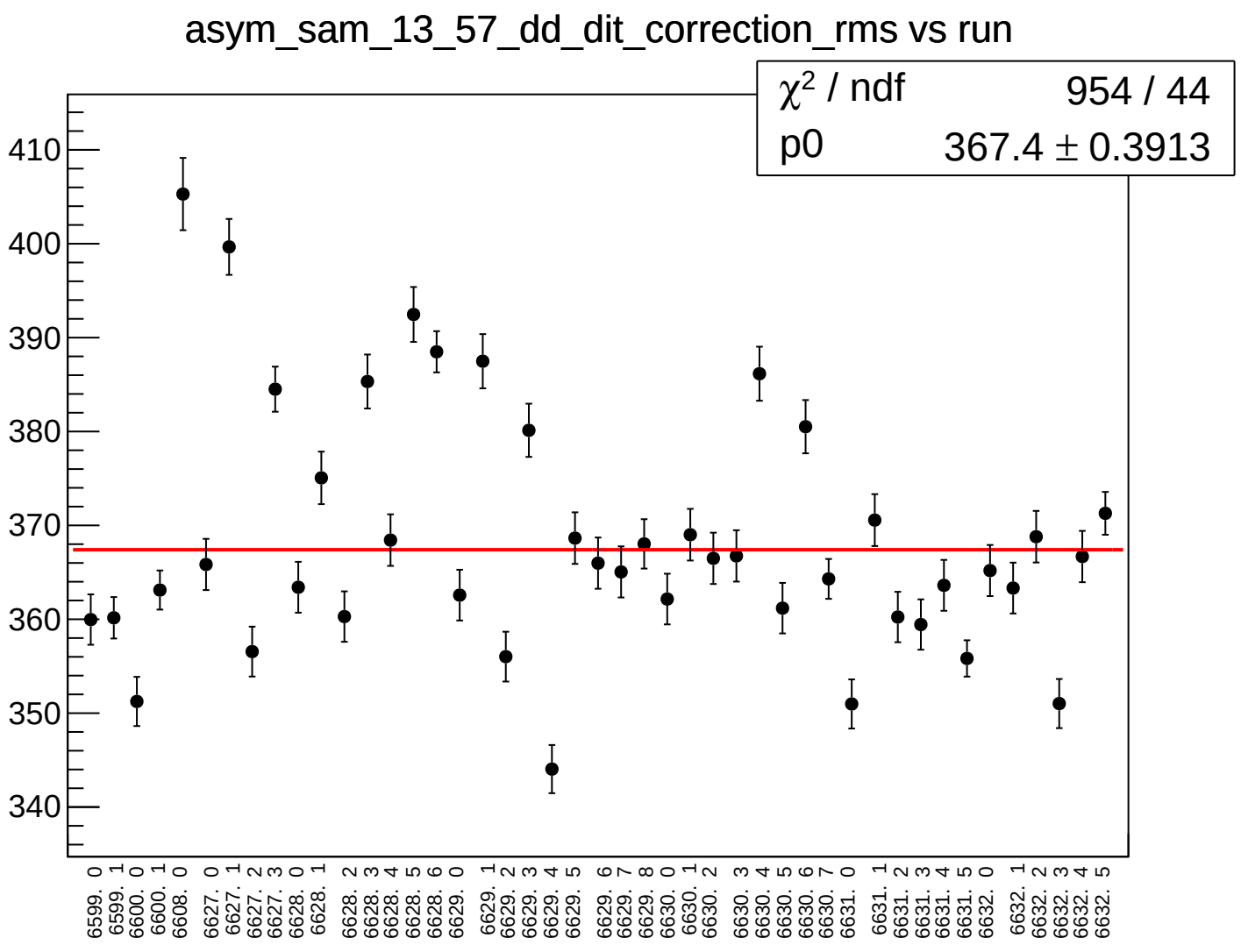
−6
−4
−2
0
2
4
6
8


asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 954 / 44
p0 367.4 ± 0.3913
410
400
390
380
370
360
350
340
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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6627. 1
6627. 2
6627. 3
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6631. 2
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6631. 5
6632. 0
6632. 1
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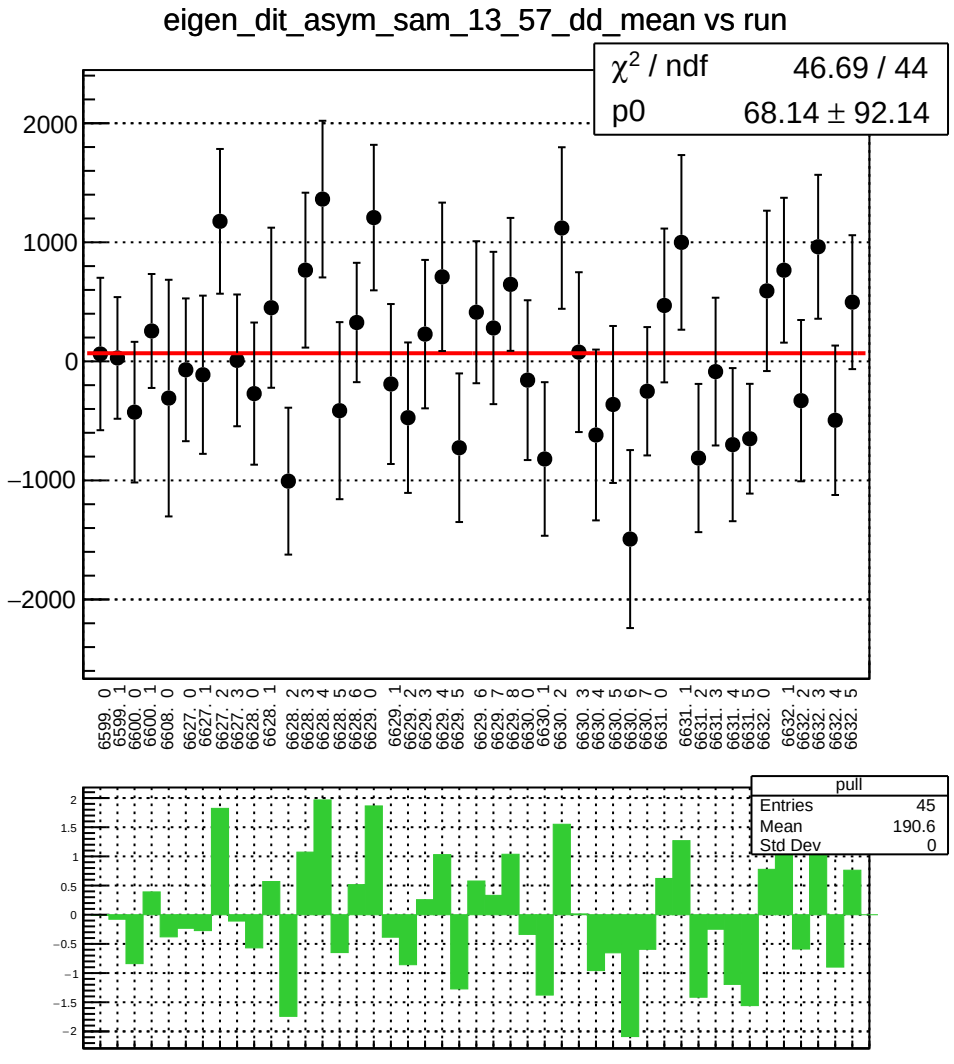
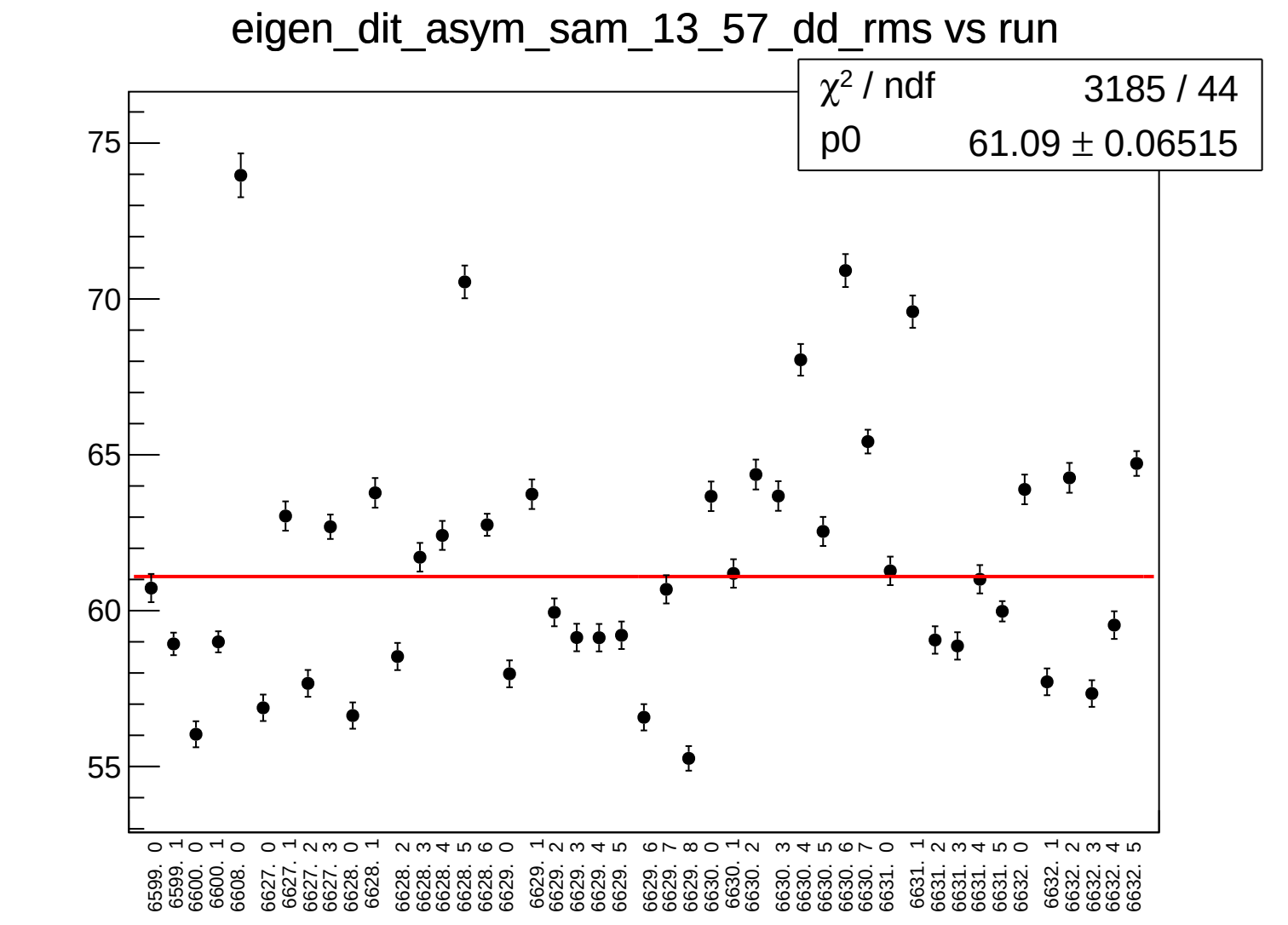
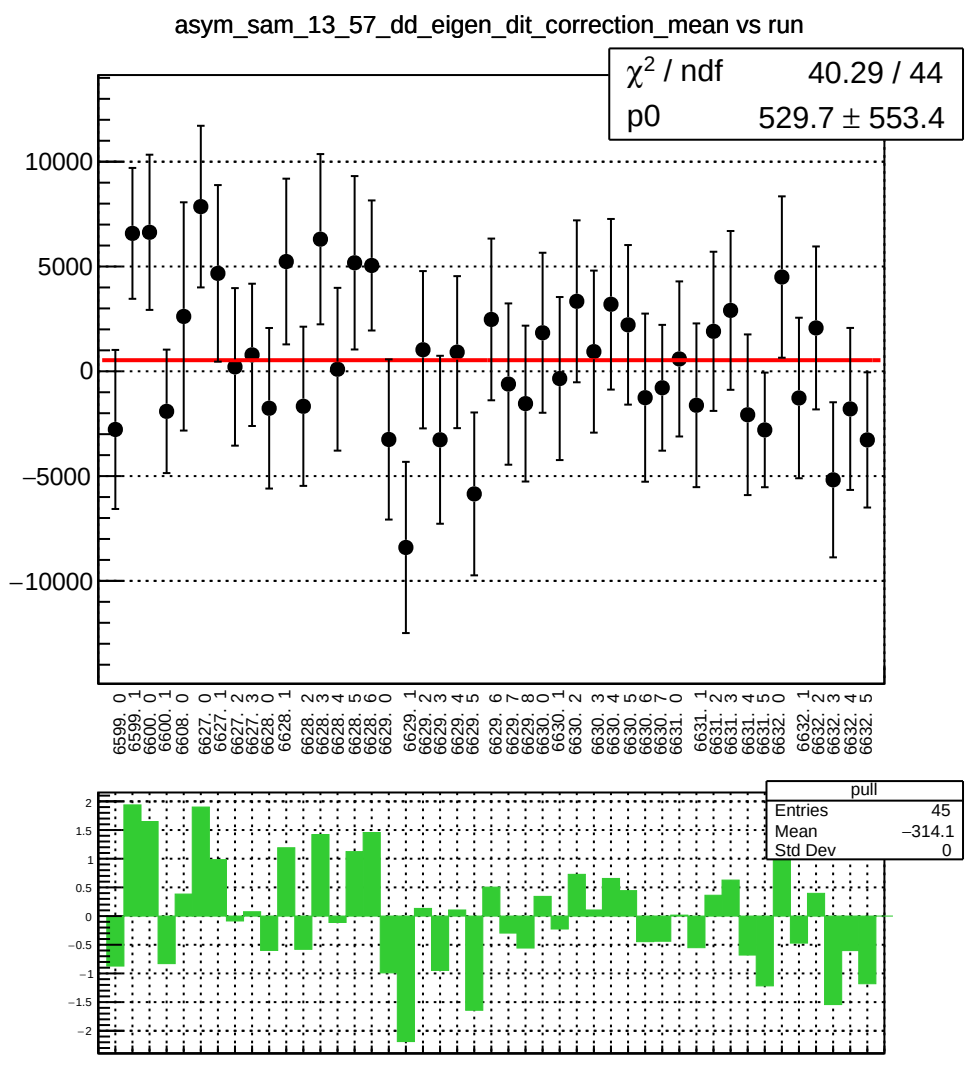
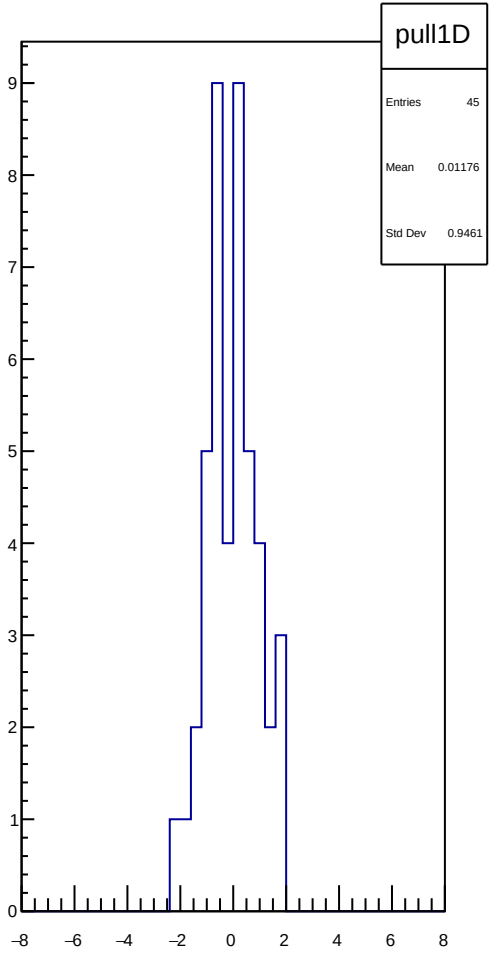
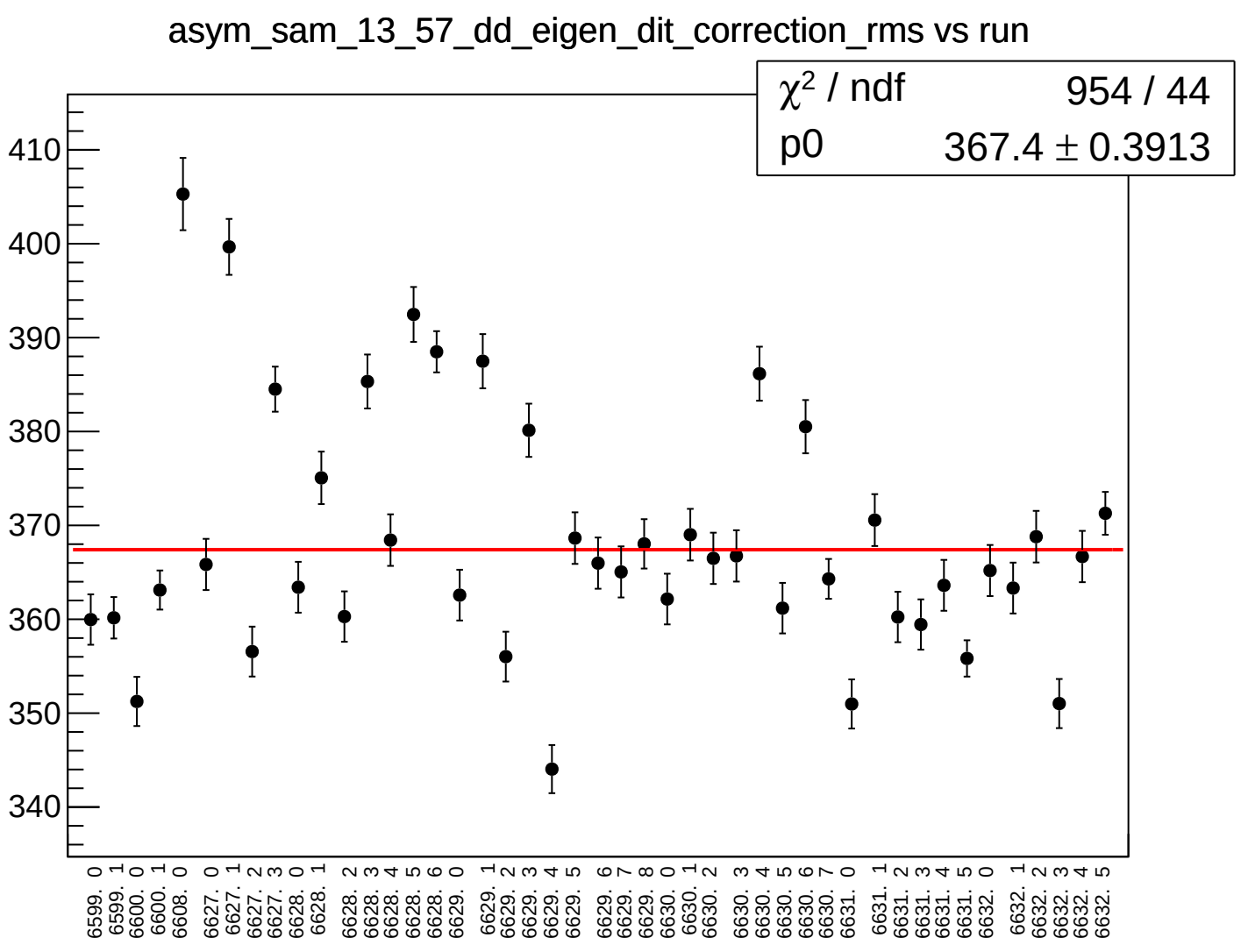
6632. 4
6632. 5

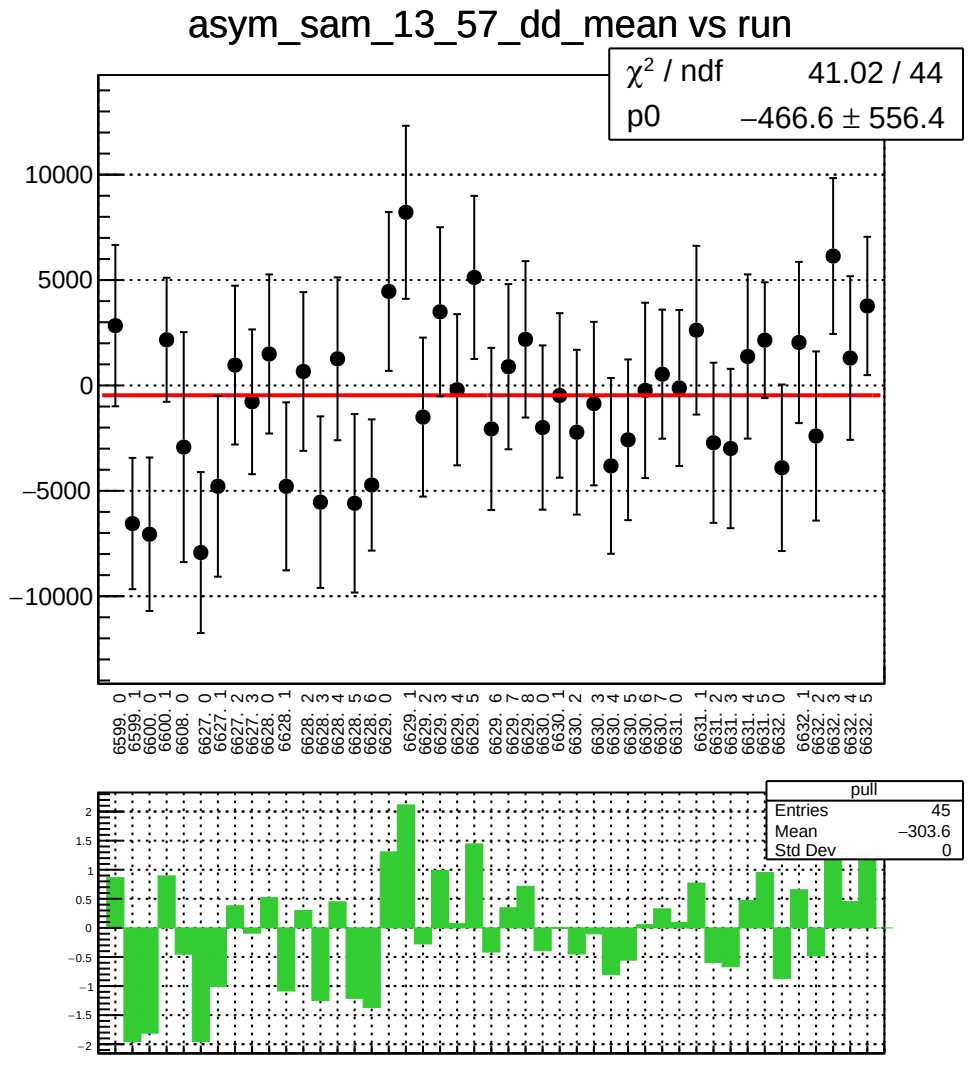

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 46.69 / 44
p0 68.14 ± 92.14
2000
1000
0
−1000
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 190.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.005208
Std Dev 1.019
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

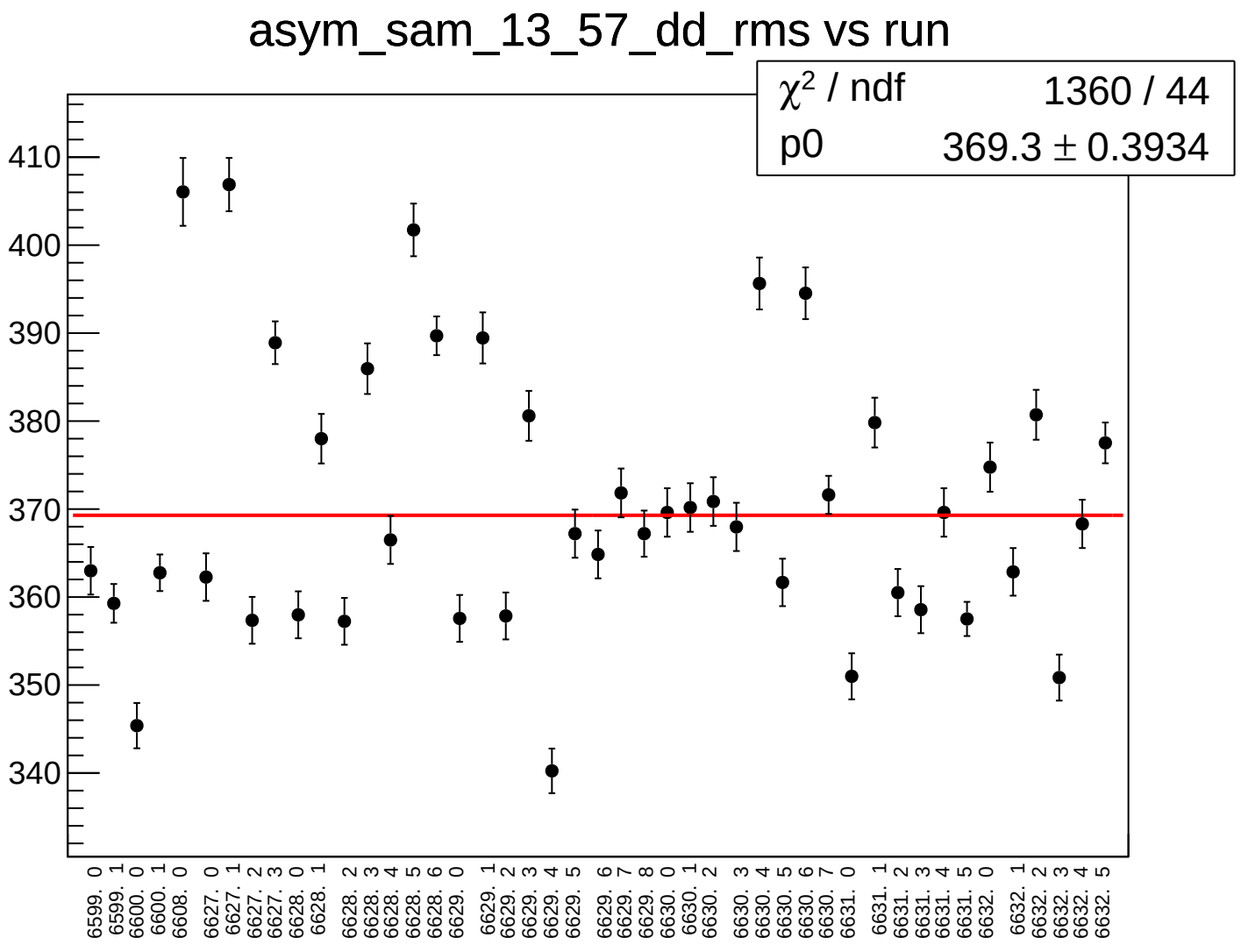

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 3185 / 44
p0 61.09 ± 0.06515
75
70
65
60
55
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

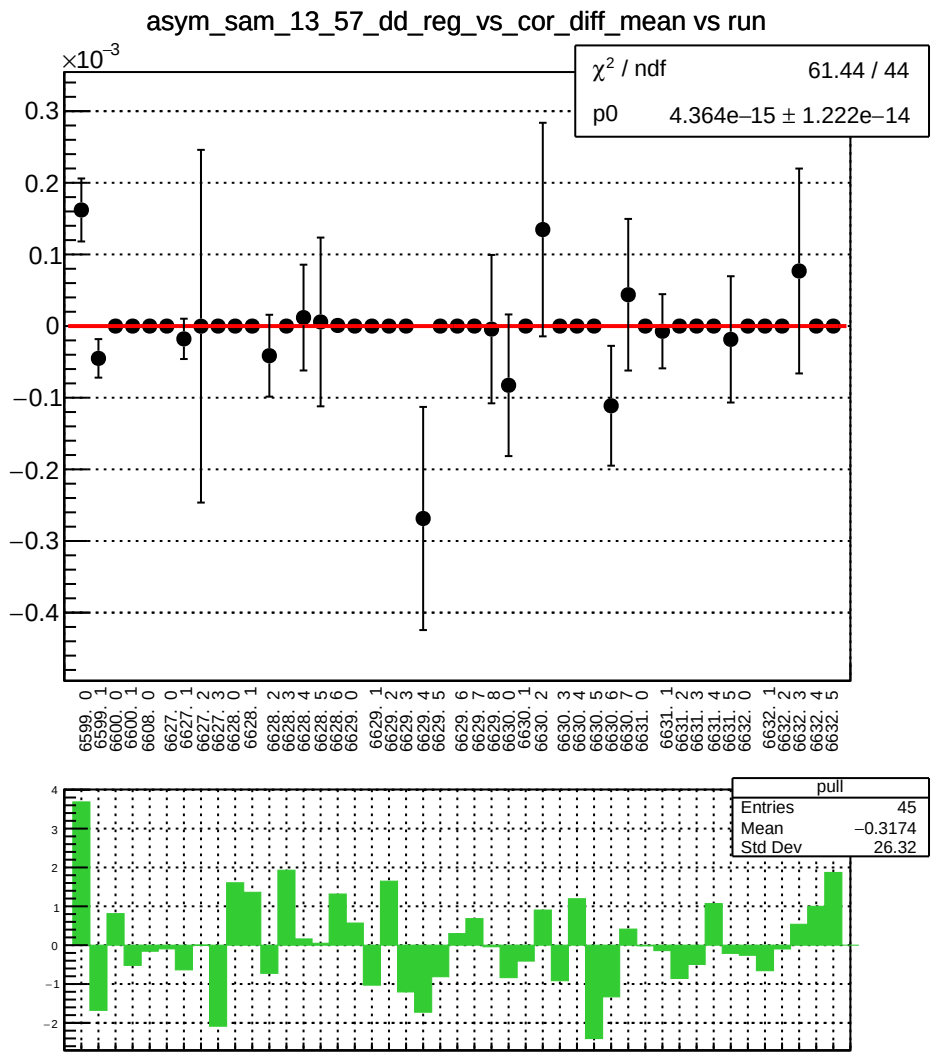

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 40.29 / 44
p0 529.7 ± 553.4
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −314.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

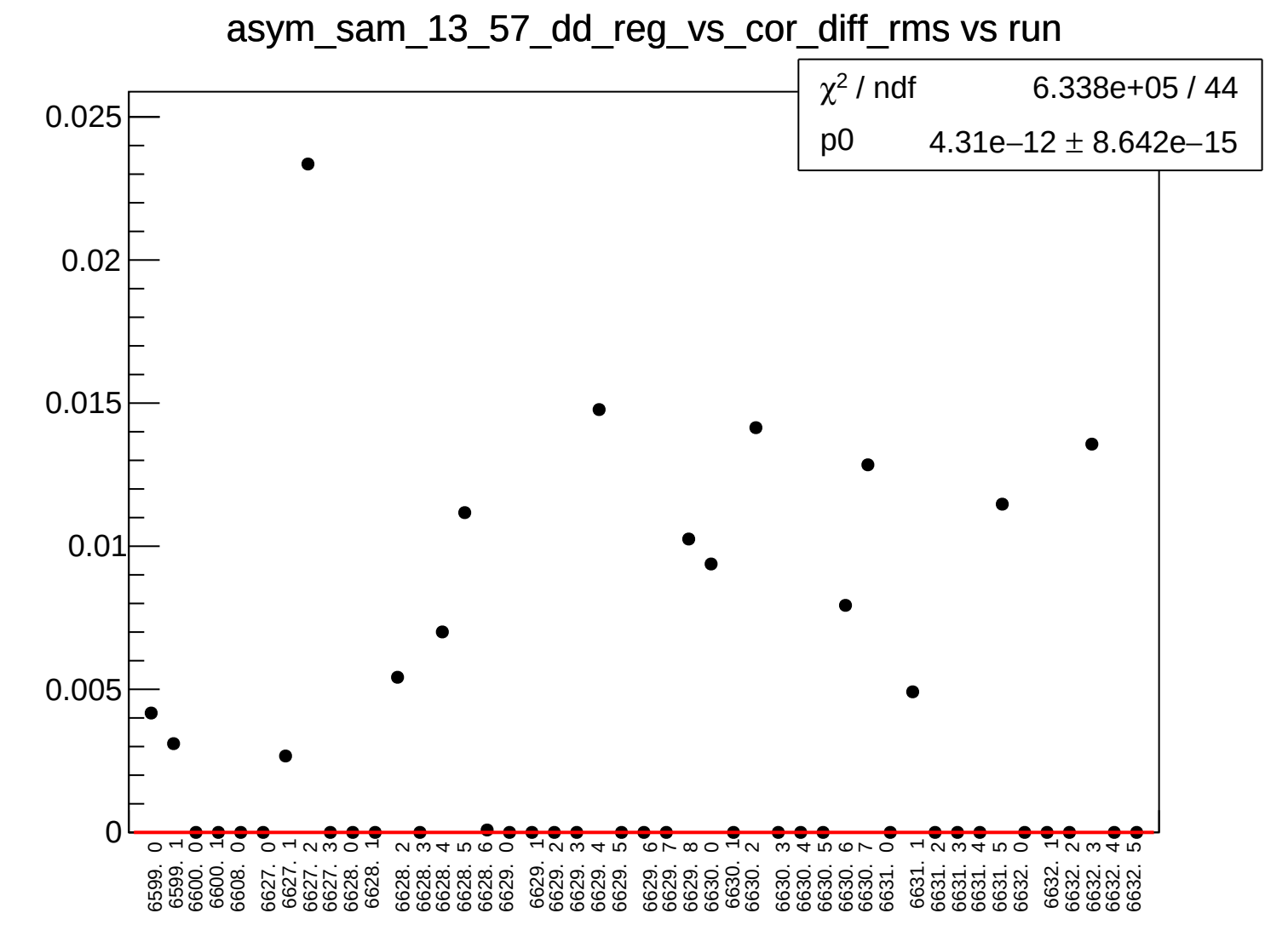

pull1D
Entries 45
Mean 0.01176
Std Dev 0.9461
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

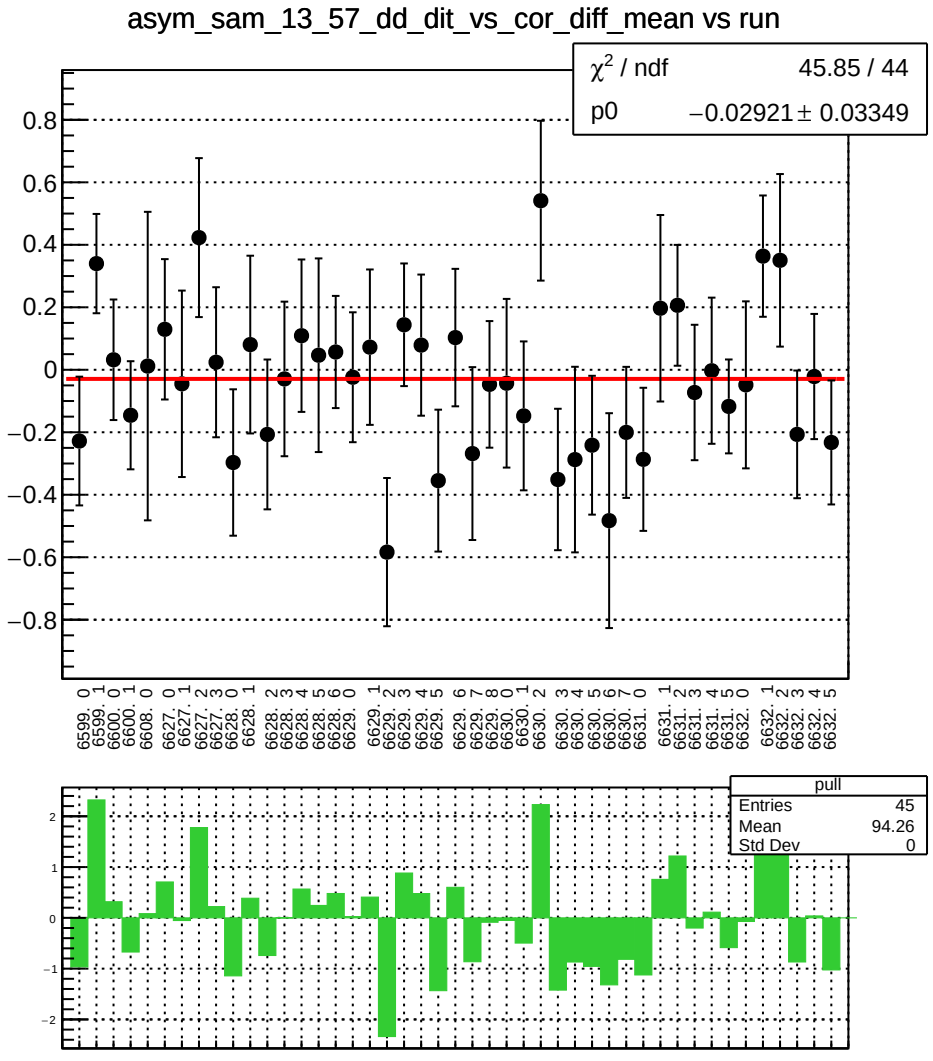

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 954 / 44
p0 367.4 ± 0.3913
410
400
390
380
370
360
350
340
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

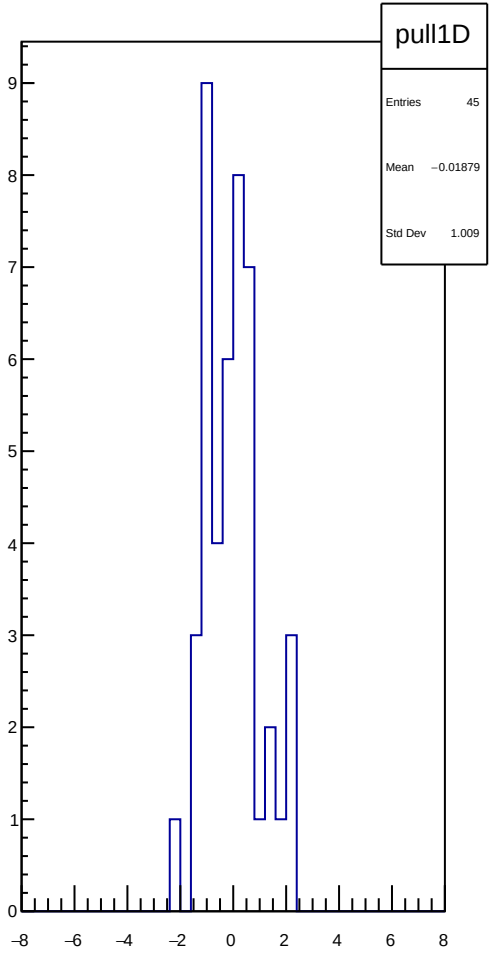

asym_sam_13_57_dd_mean vs run
χ² / ndf 41.02 / 44
p0 −466.6 ± 556.4
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −303.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01169
Std Dev 0.9547
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

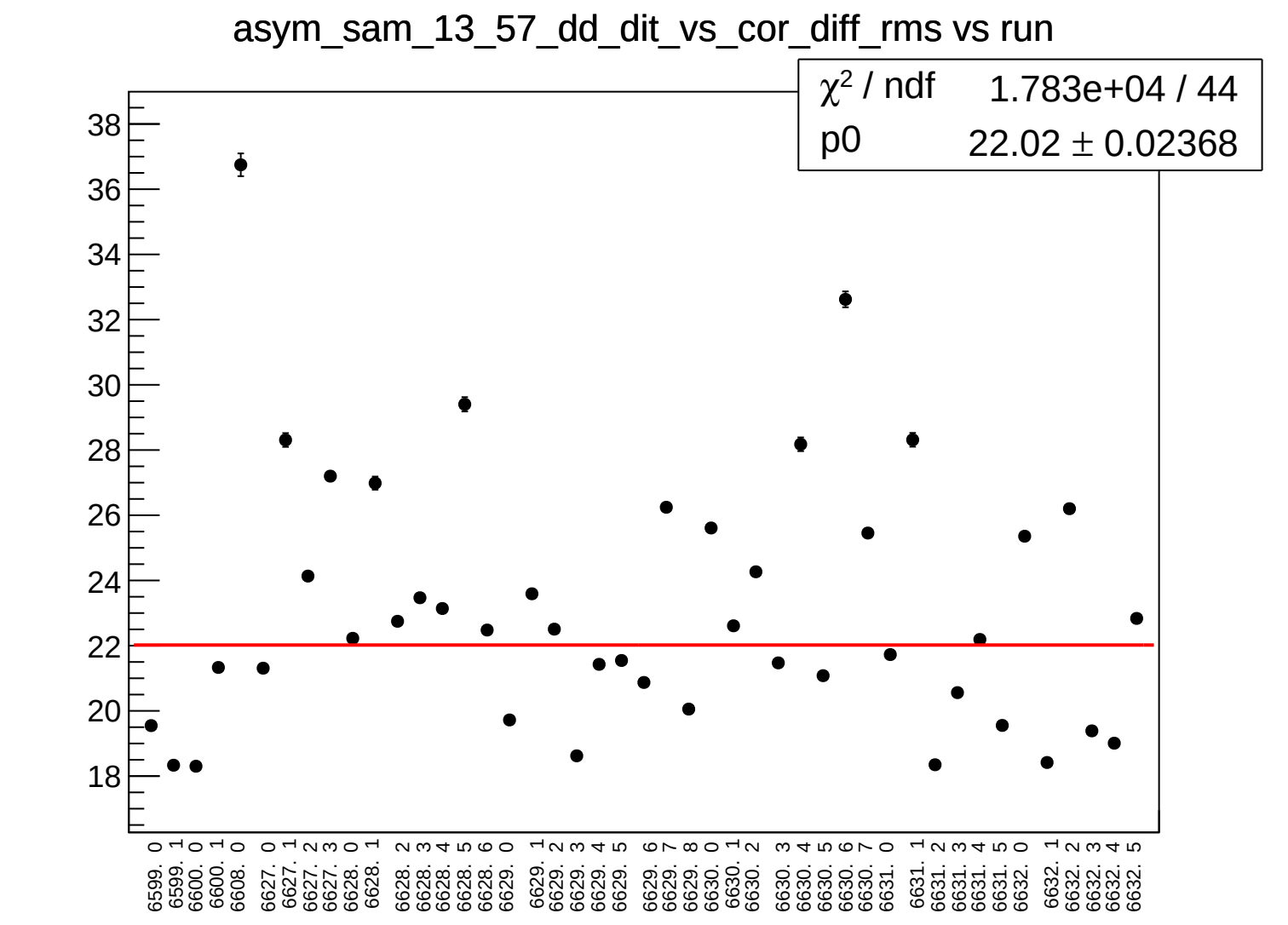

asym_sam_13_57_dd_rms vs run
χ² / ndf 1360 / 44
p0 369.3 ± 0.3934
410
400
390
380
370
360
350
340
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

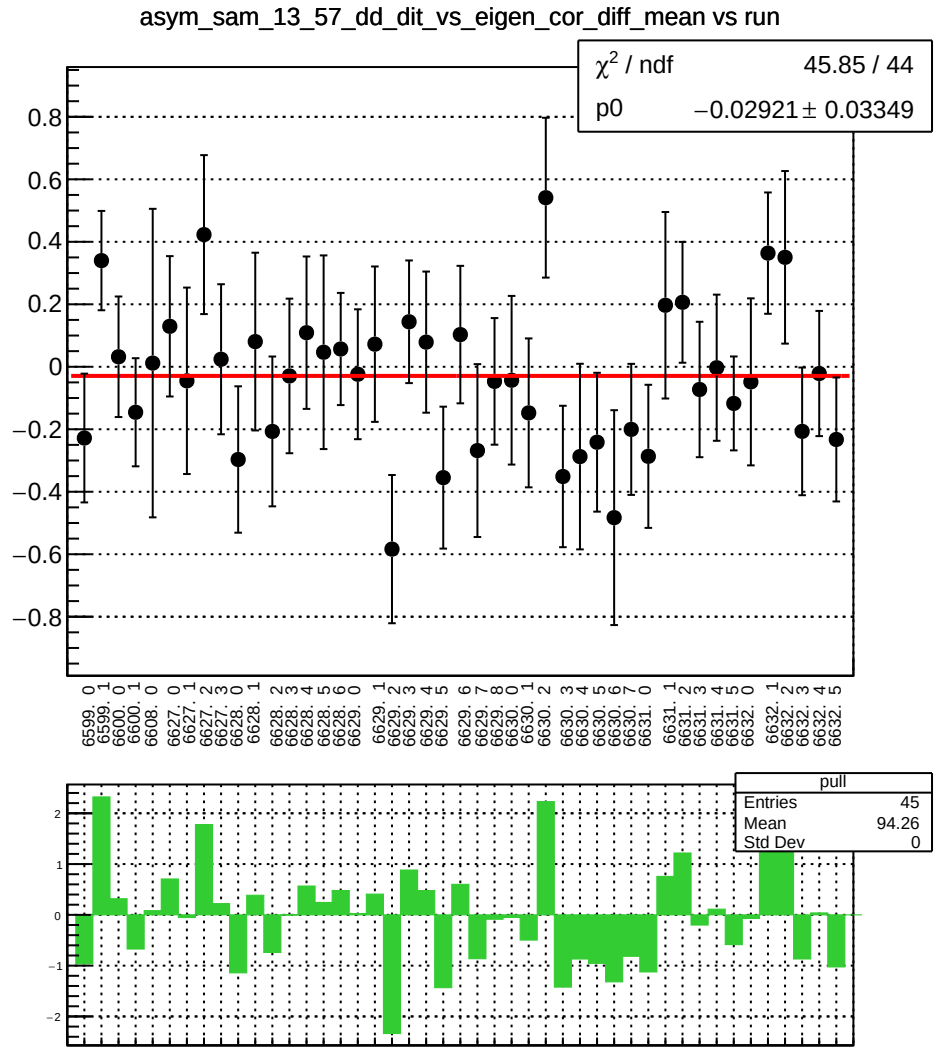

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 61.44 / 44
p0 4.364e−15 ± 1.222e−14
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −0.3174
Std Dev 26.32
4
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.03965
Std Dev 1.168
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

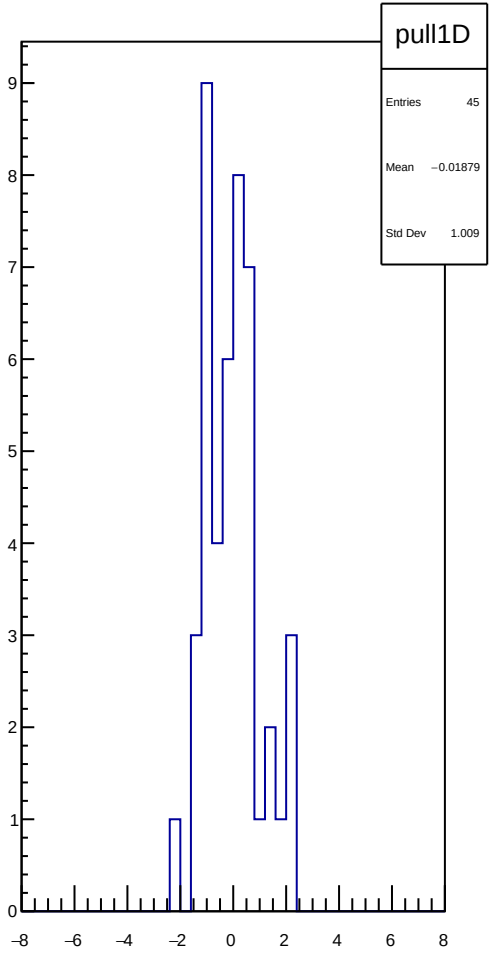

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.338e+05 / 44
p0 4.31e−12 ± 8.642e−15
0.025
0.02
0.015
0.01
0.005
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

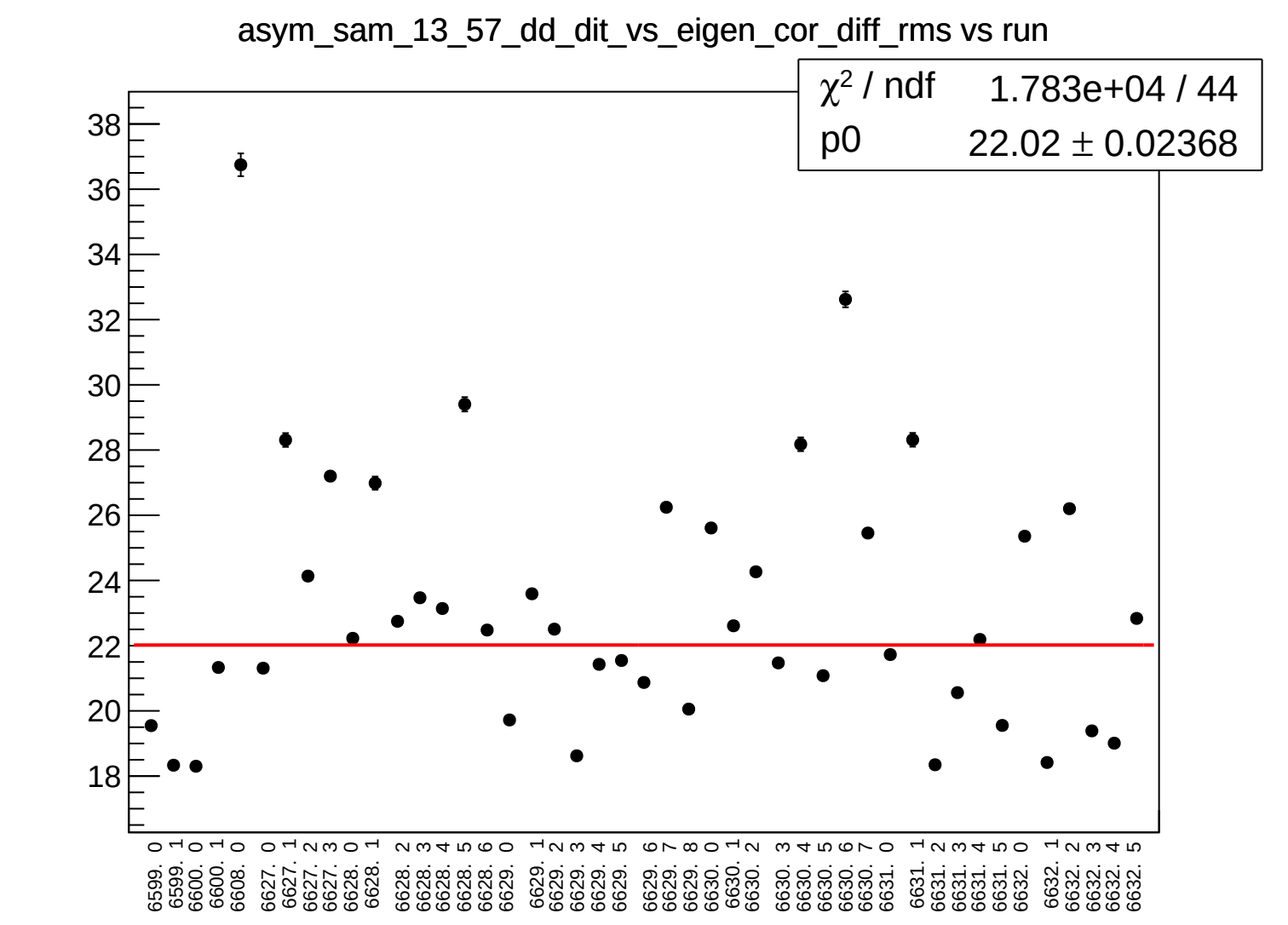

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 45.85 / 44
p0 −0.02921 ± 0.03349
pull
Entries 45
Mean 94.26
Std Dev 0


pull1D
Entries 45
Mean −0.01879
Std Dev 1.009


asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.783e+04 / 44
p0 22.02 ± 0.02368
38
36
34
32
30
28
26
24
22
20
18
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 45.85 / 44
p0 −0.02921 ± 0.03349
pull
Entries 45
Mean 94.26
Std Dev 0


pull1D
Entries 45
Mean −0.01879
Std Dev 1.009


asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.783e+04 / 44
p0 22.02 ± 0.02368
38
36
34
32
30
28
26
24
22
20
18
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
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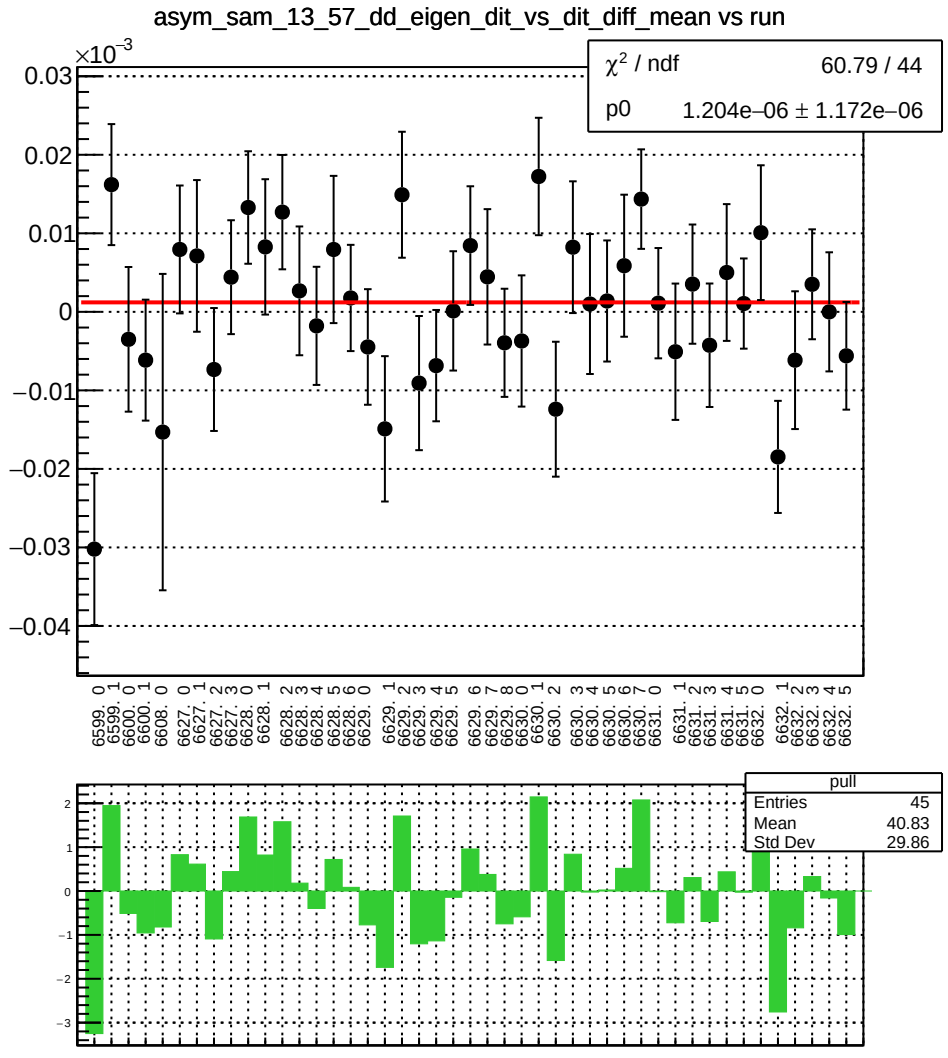
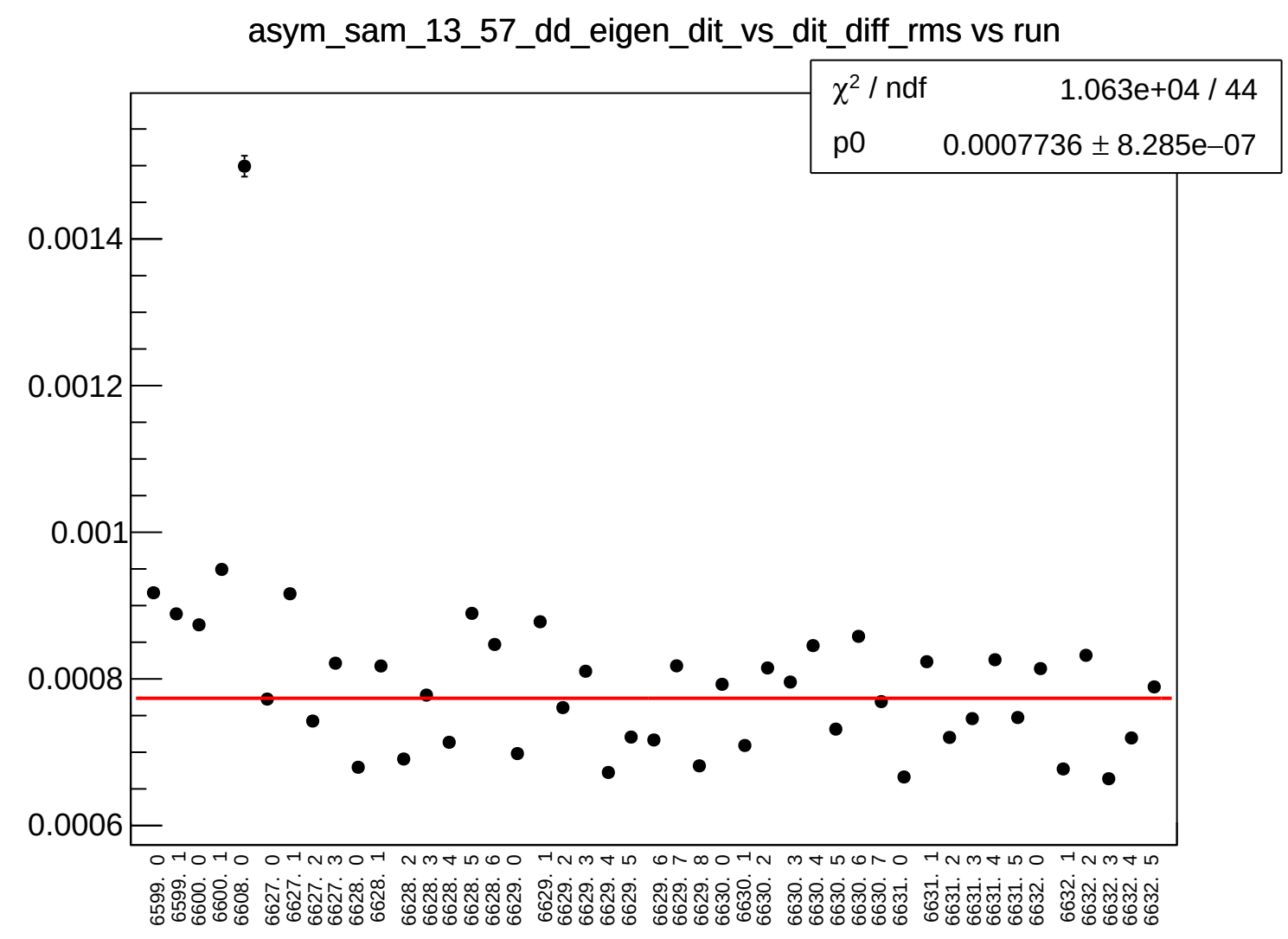
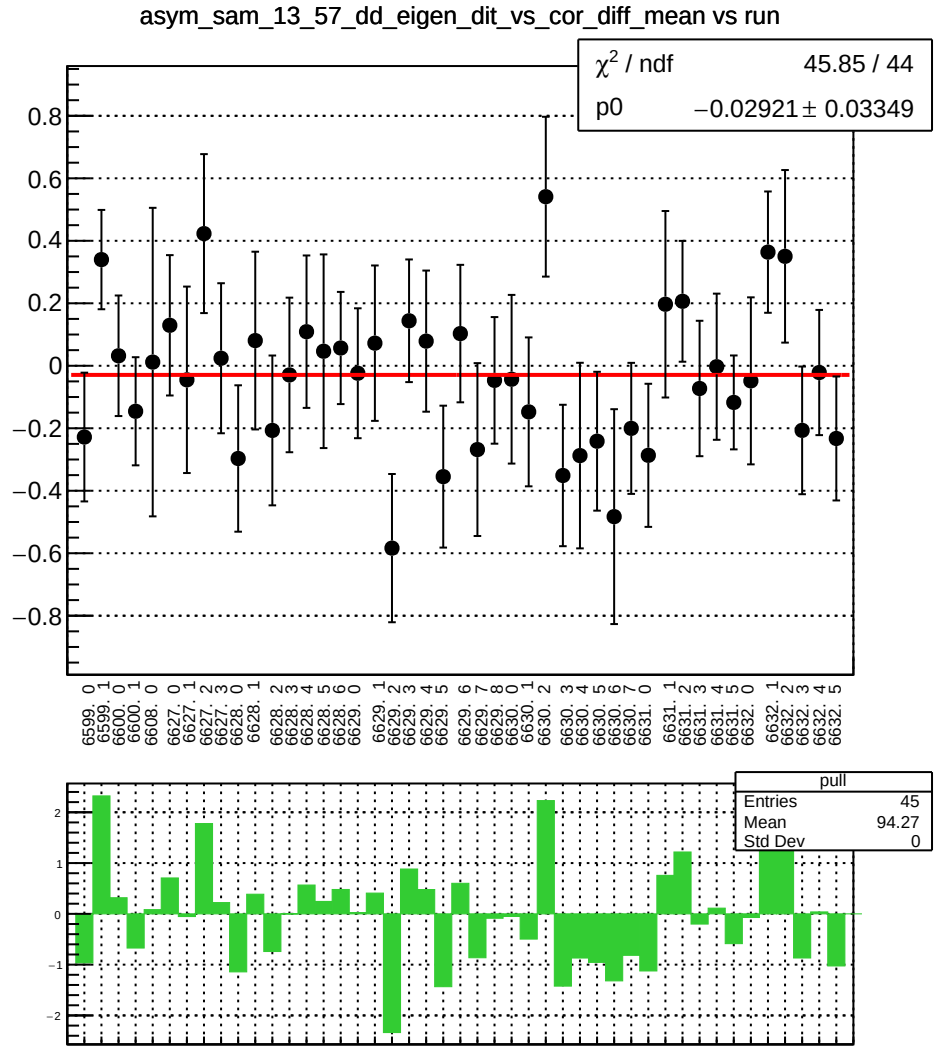
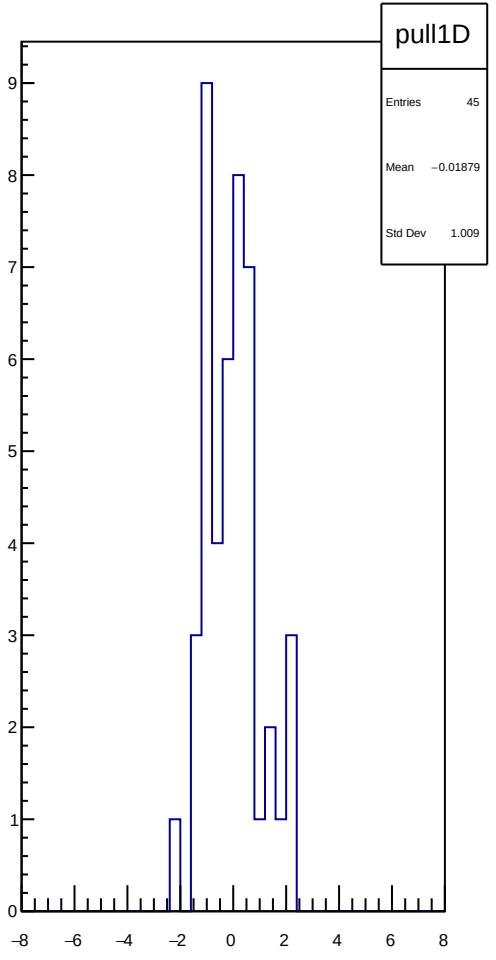
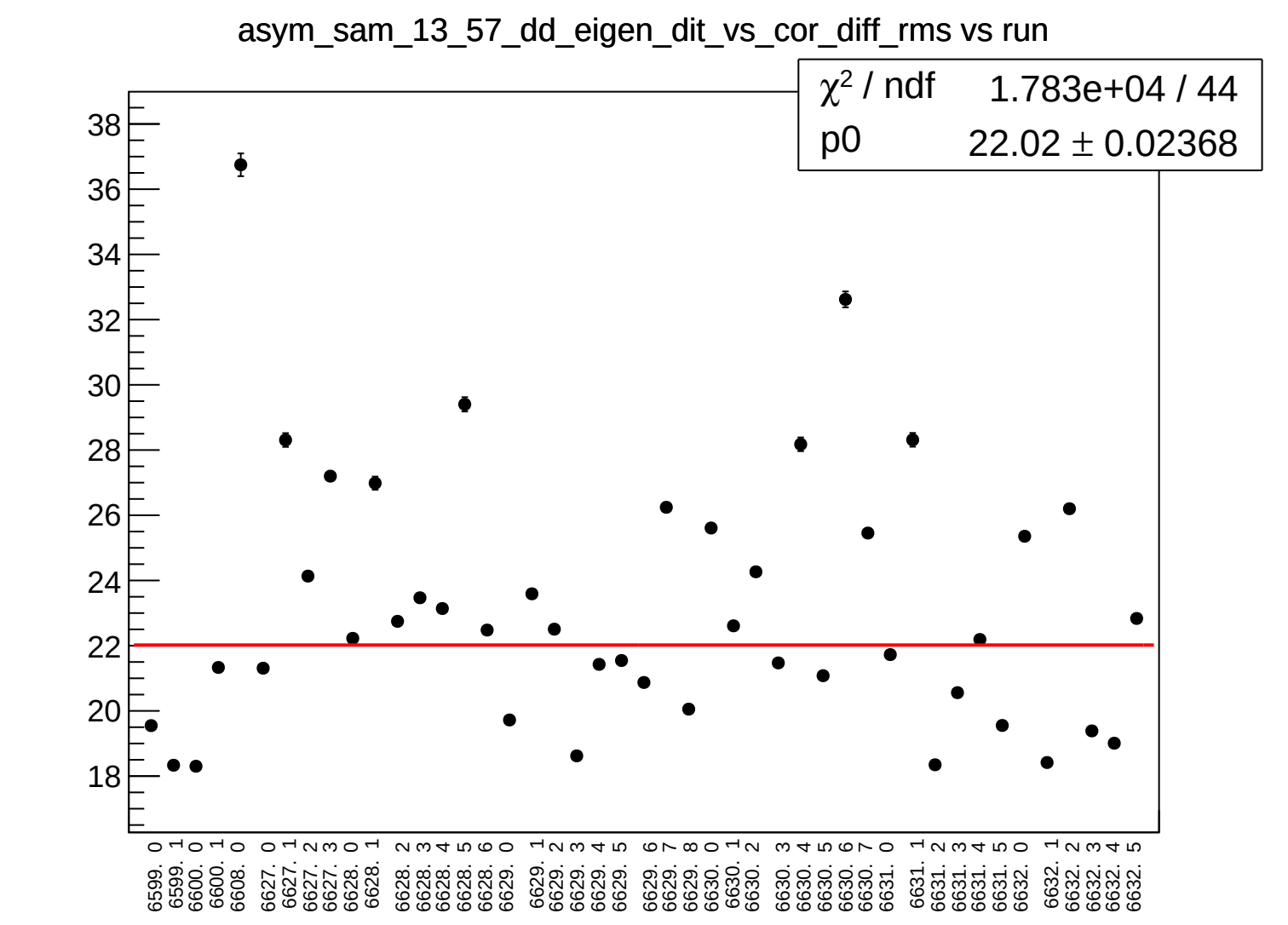
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

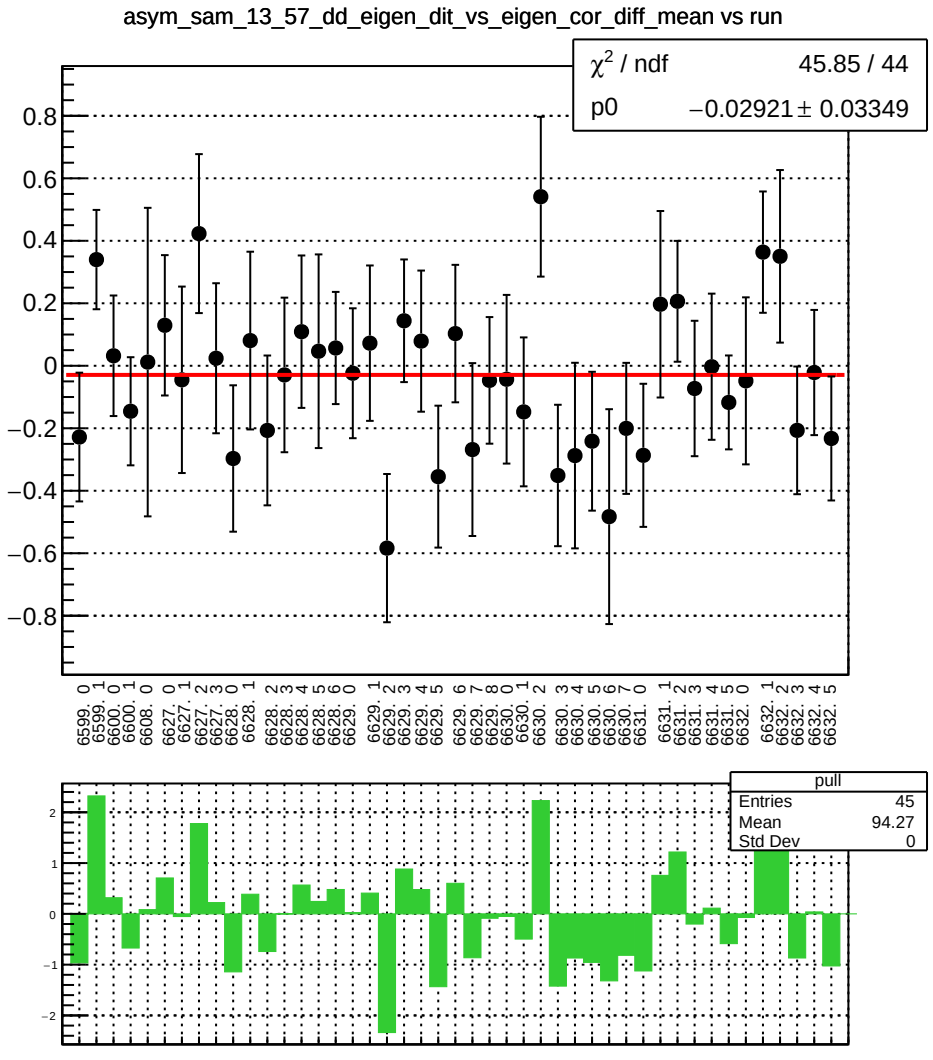

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 60.79 / 44
p0 1.204e−06 ± 1.172e−06
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 40.83
Std Dev 29.86
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.03384
Std Dev 1.162
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

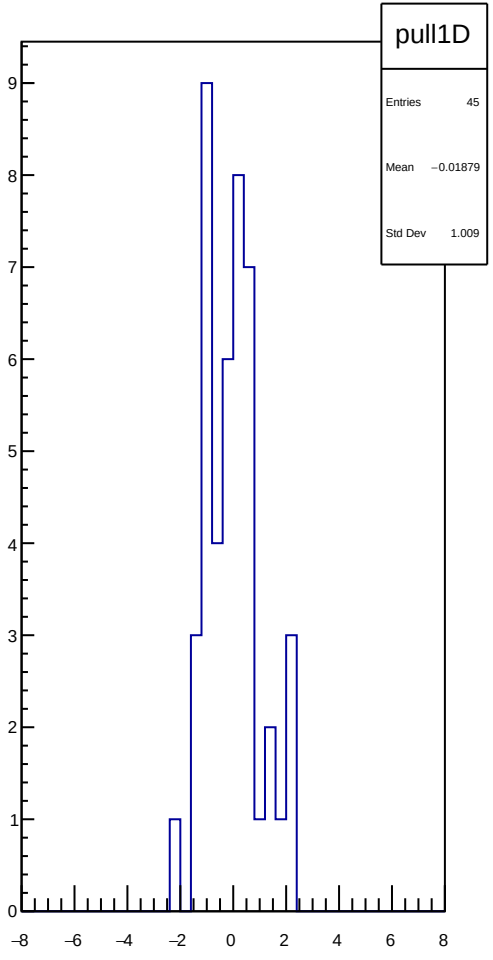

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.063e+04 / 44
p0 0.0007736 ± 8.285e−07
0.0014
0.0012
0.001
0.0008
0.0006
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

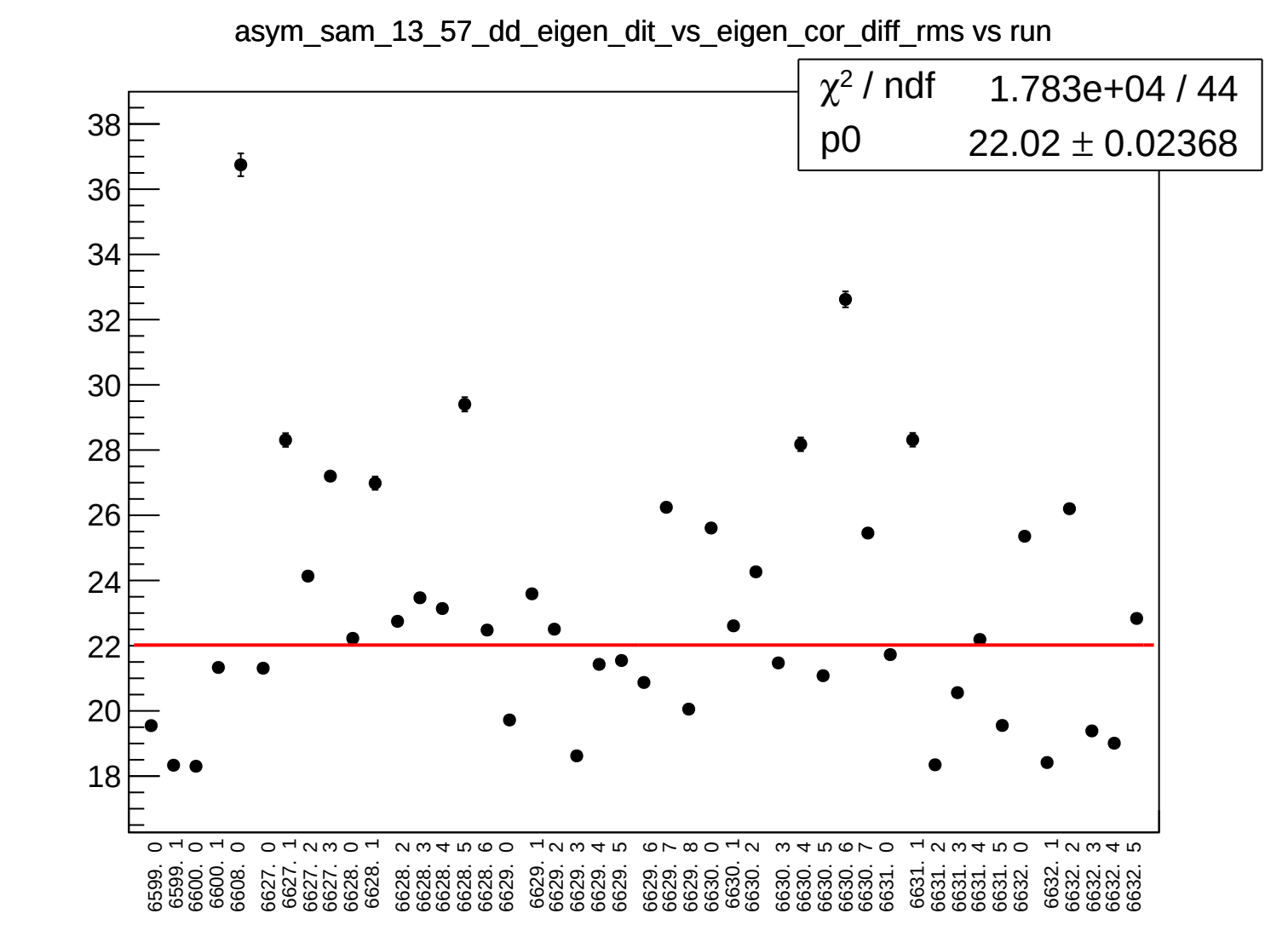

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 45.85 / 44
p0 −0.02921 ± 0.03349
pull
Entries 45
Mean 94.27
Std Dev 0

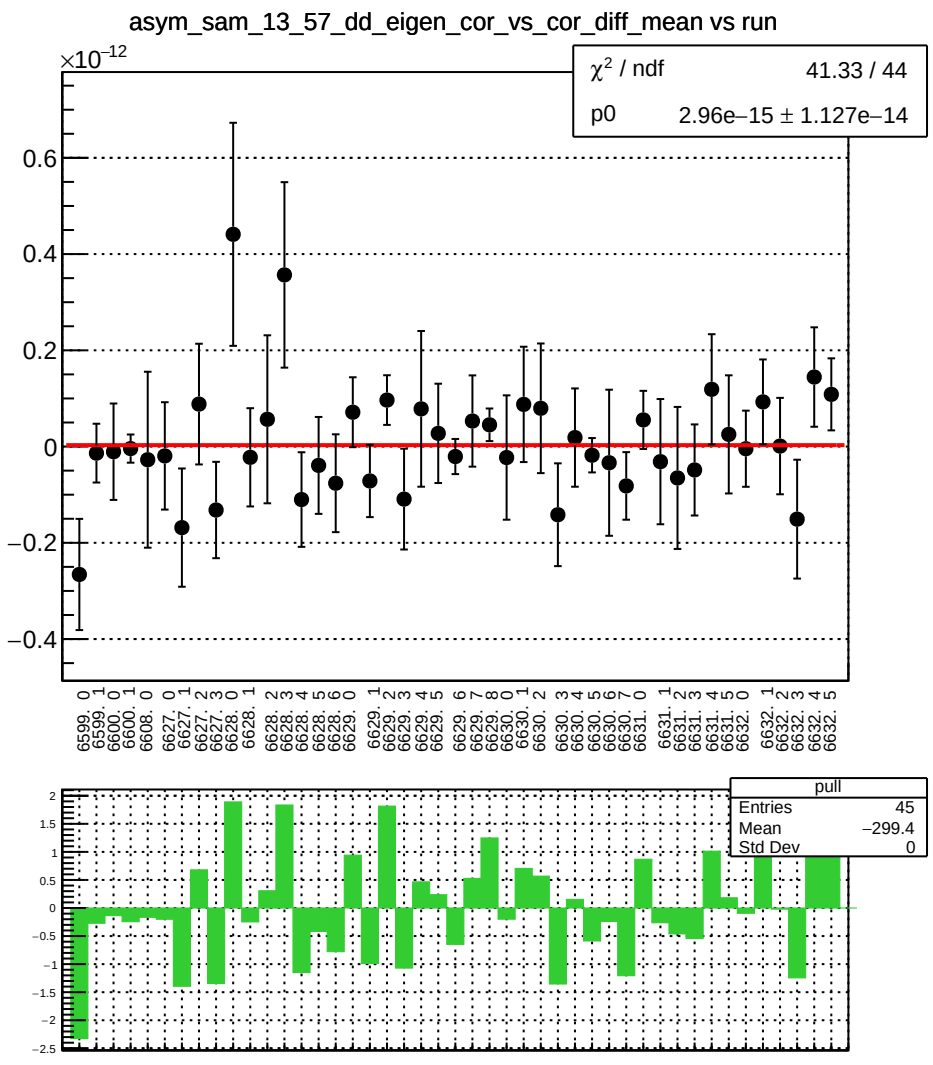

pull1D
Entries 45
Mean −0.01879
Std Dev 1.009

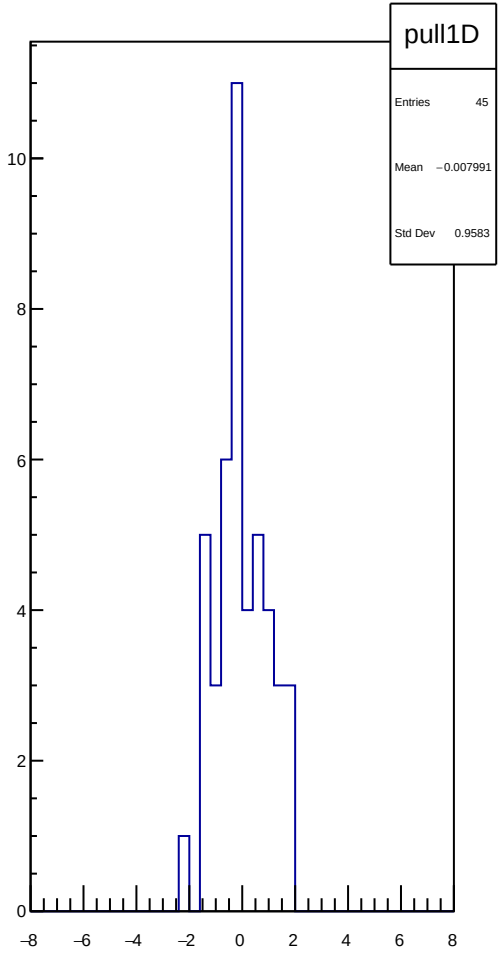

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.783e+04 / 44
p0 22.02 ± 0.02368
38
36
34
32
30
28
26
24
22
20
18
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

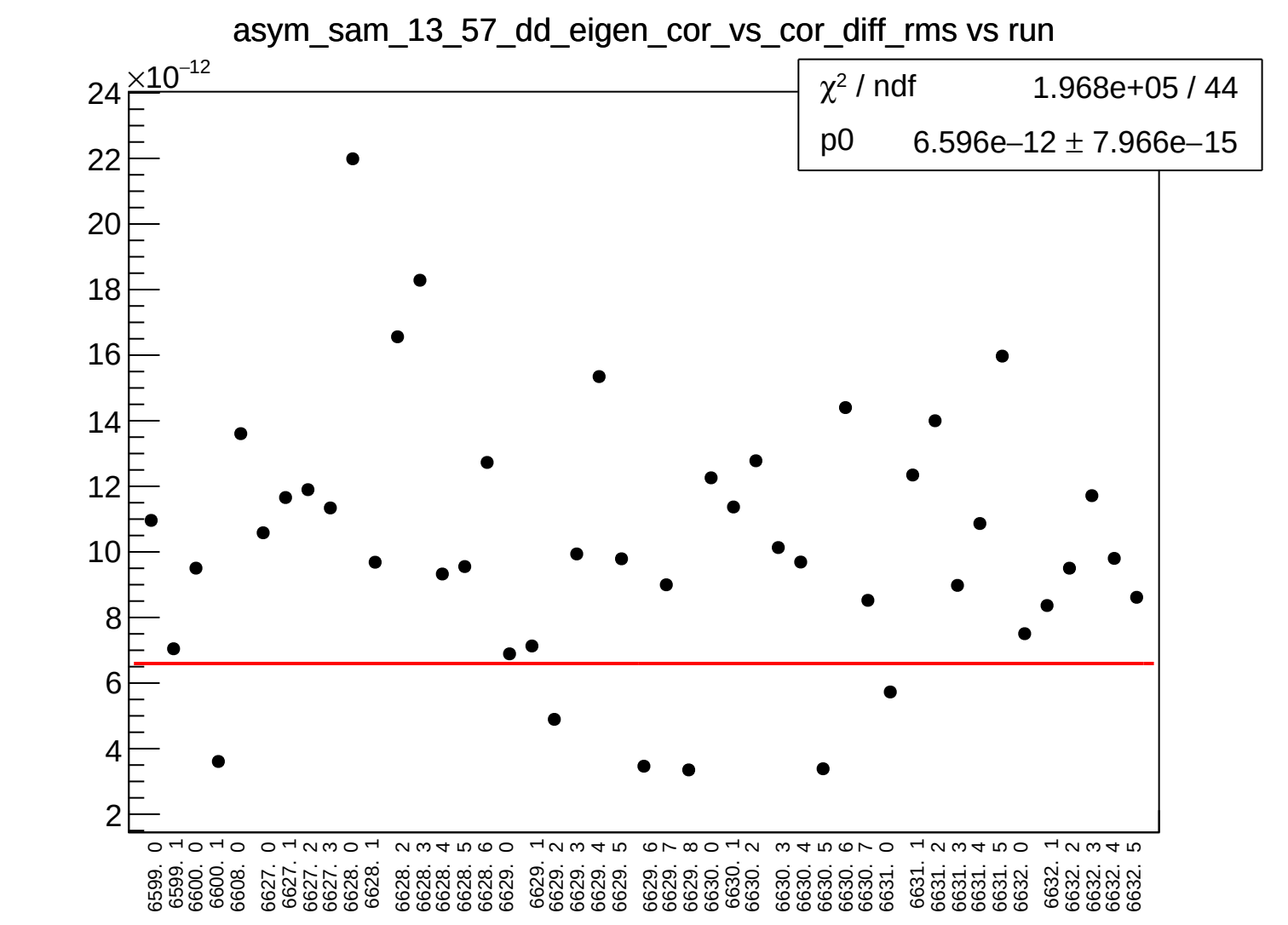

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 45.85 / 44
p0 −0.02921 ± 0.03349
pull
Entries 45
Mean 94.27
Std Dev 0

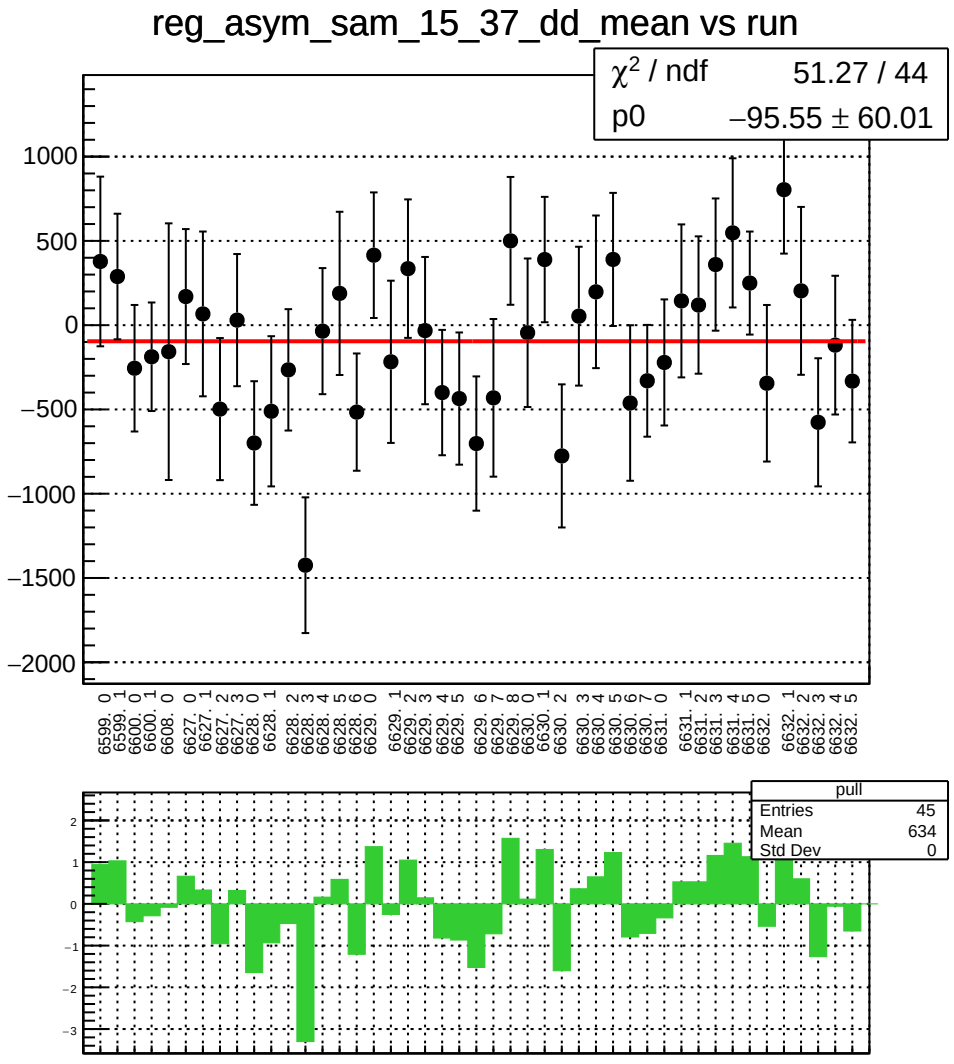

pull1D
Entries 45
Mean −0.01879
Std Dev 1.009

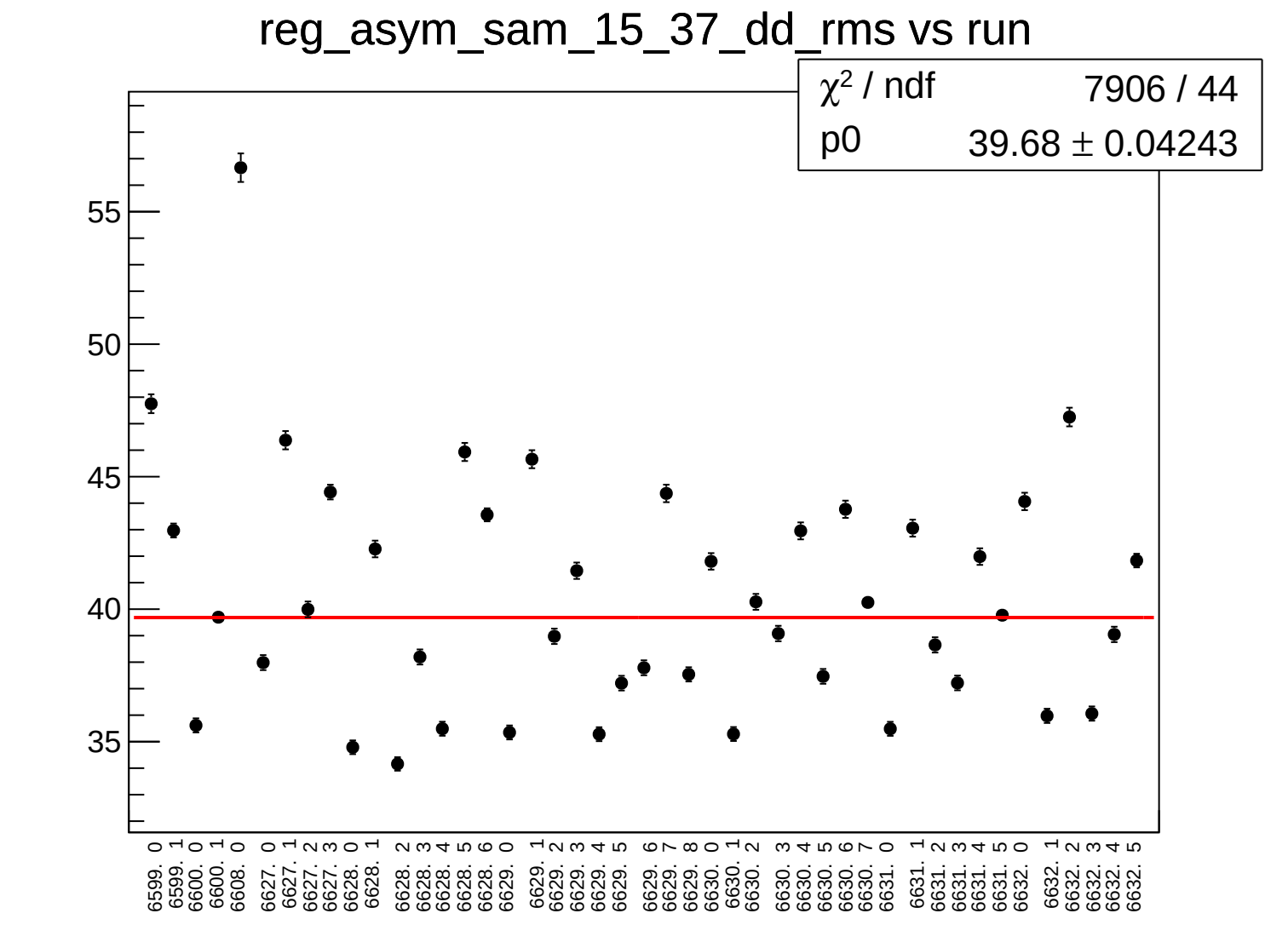

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.783e+04 / 44
p0 22.02 ± 0.02368
38
36
34
32
30
28
26
24
22
20
18
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

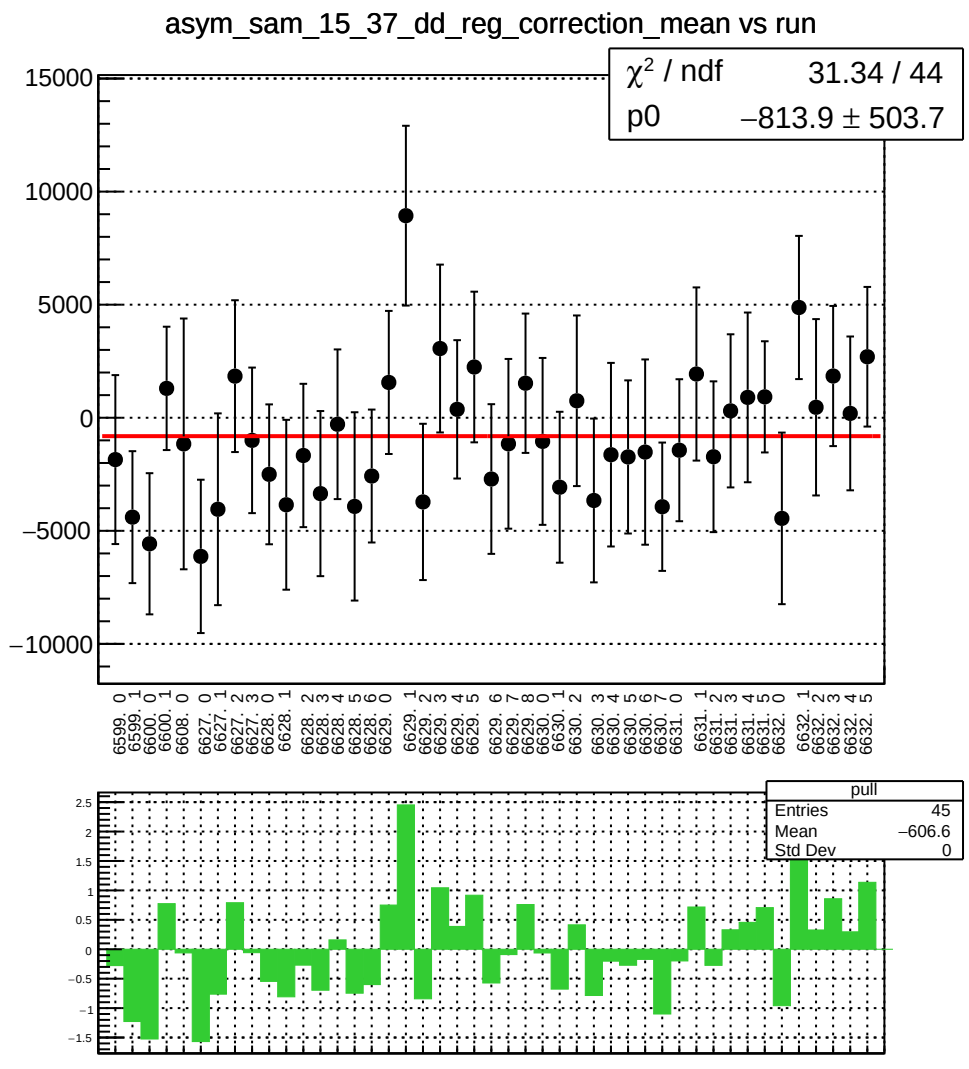

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 41.33 / 44
p0 2.96e−15 ± 1.127e−14
0.6
0.4
0.2
0
−0.2
−0.4
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −299.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

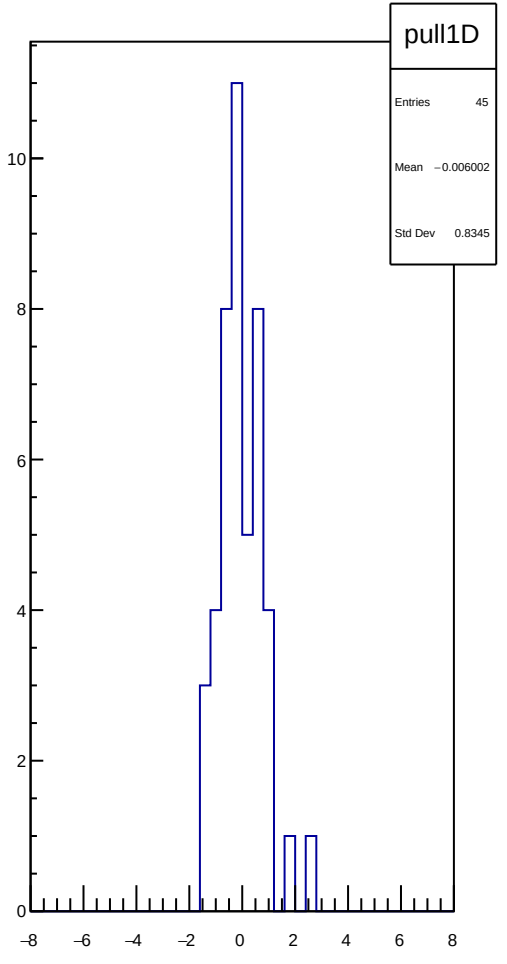

pull1D
Entries 45
Mean −0.007991
Std Dev 0.9583
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

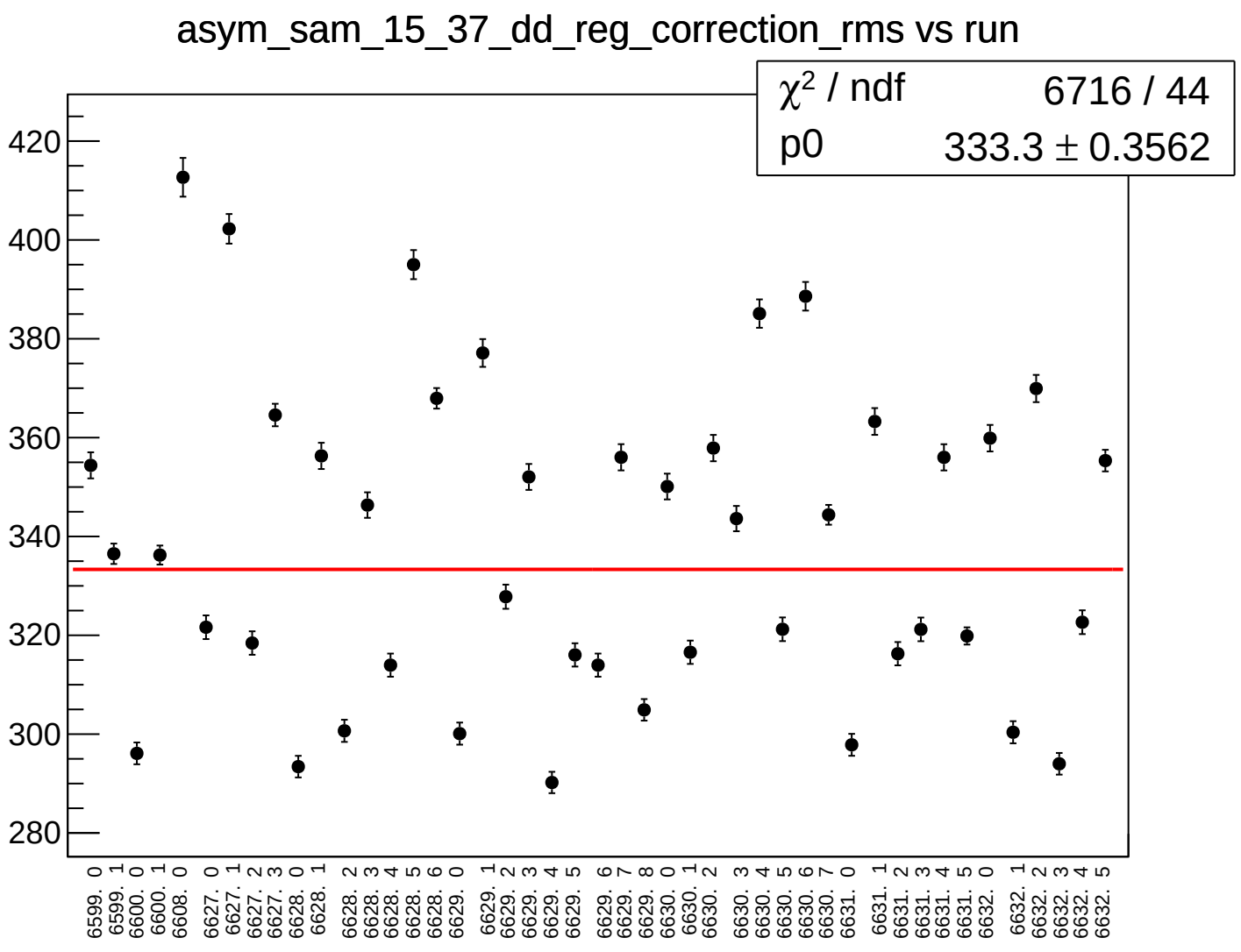

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.968e+05 / 44
p0 6.596e−12 ± 7.966e−15
24
22
20
18
16
14
12
10
8
6
4
2
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

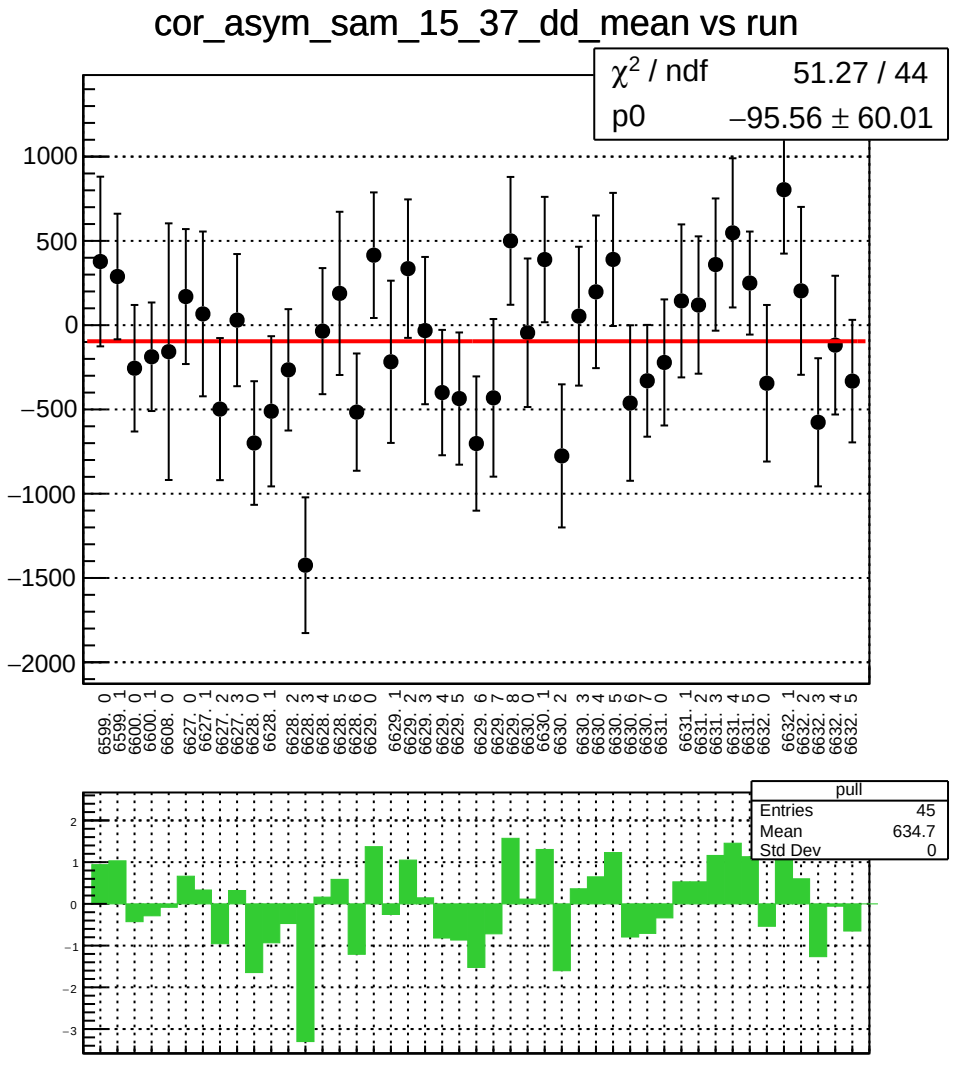

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 51.27 / 44
p0 −95.55 ± 60.01
1000
500
0
−500
−1000
−1500
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 634
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.003722
Std Dev 1.067
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

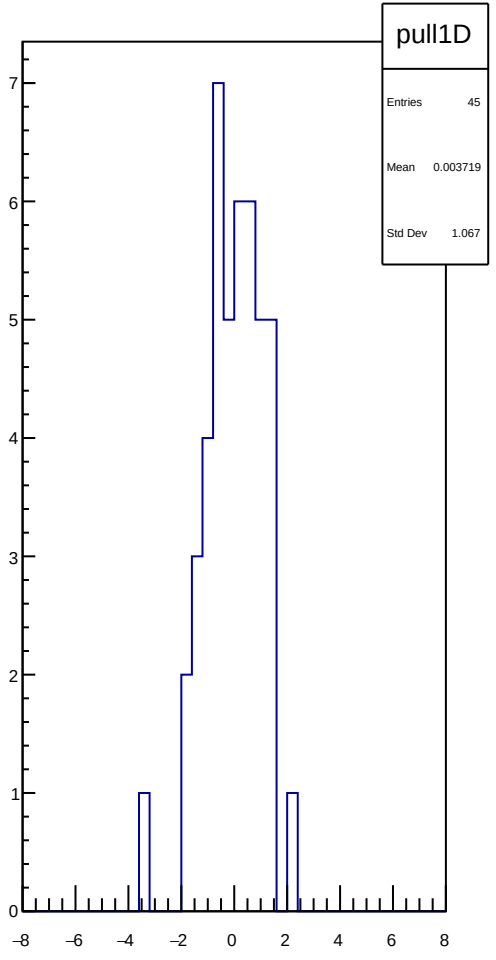

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 7906 / 44
p0 39.68 ± 0.04243
55
50
45
40
35
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

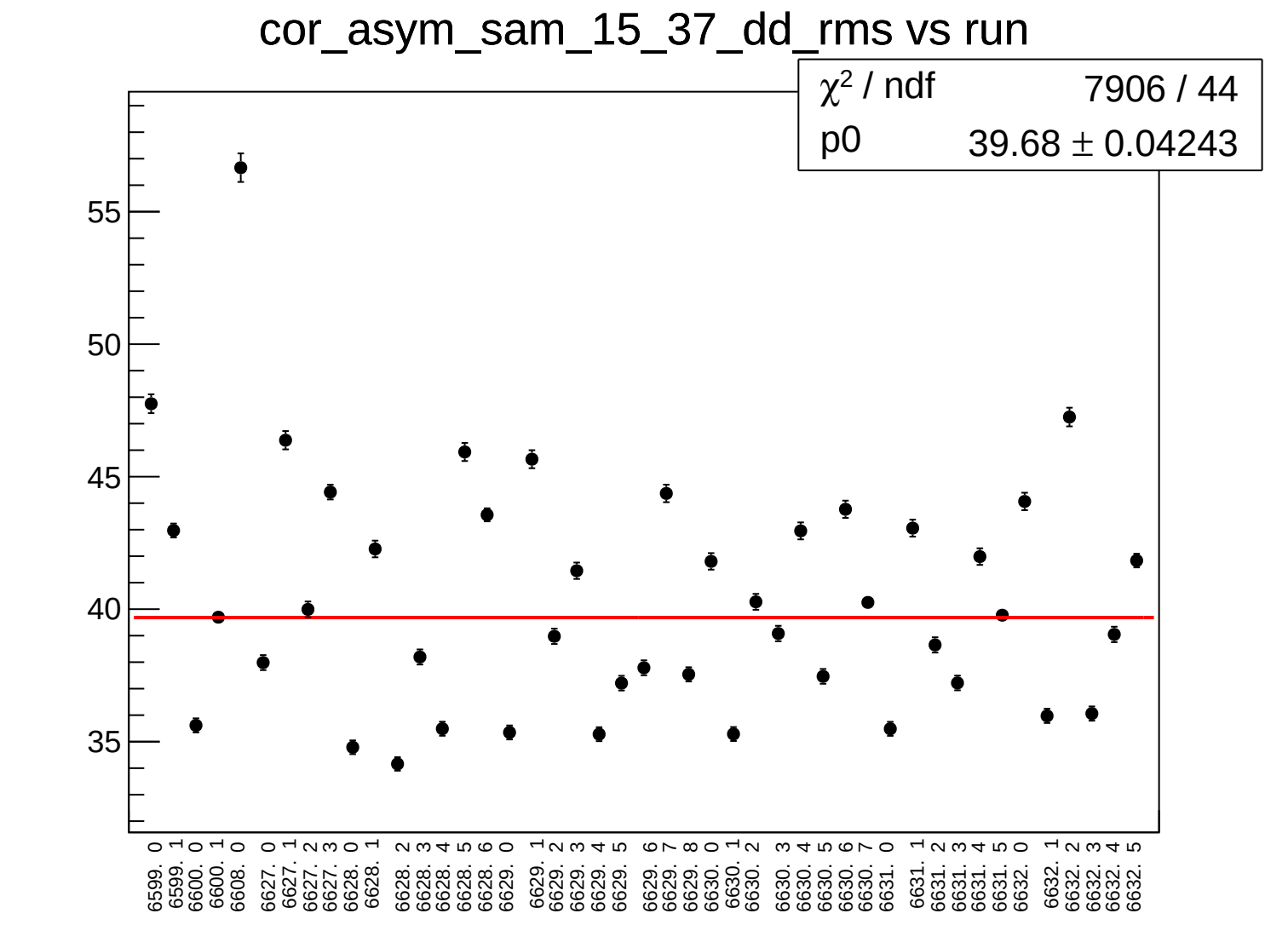

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 31.34 / 44
p0 −813.9 ± 503.7
15000
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −606.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

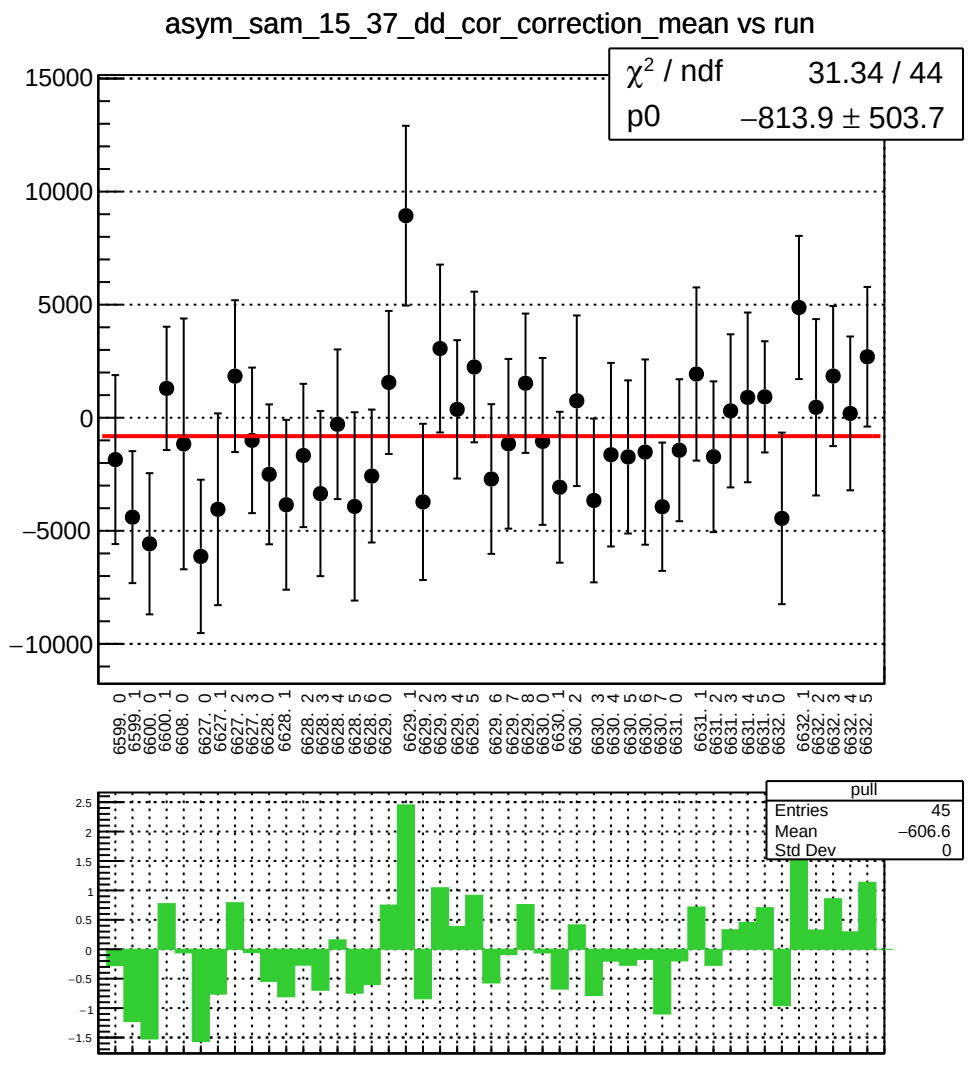

pull1D
Entries 45
Mean −0.006002
Std Dev 0.8345
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 6716 / 44
p0 333.3 ± 0.3562
420
400
380
360
340
320
300
280
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 51.27 / 44
p0 −95.56 ± 60.01
1000
500
0
−500
−1000
−1500
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 634.7
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.003719
Std Dev 1.067
7
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 7906 / 44
p0 39.68 ± 0.04243
55
50
45
40
35
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 31.34 / 44
p0 −813.9 ± 503.7
15000
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
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6629. 2
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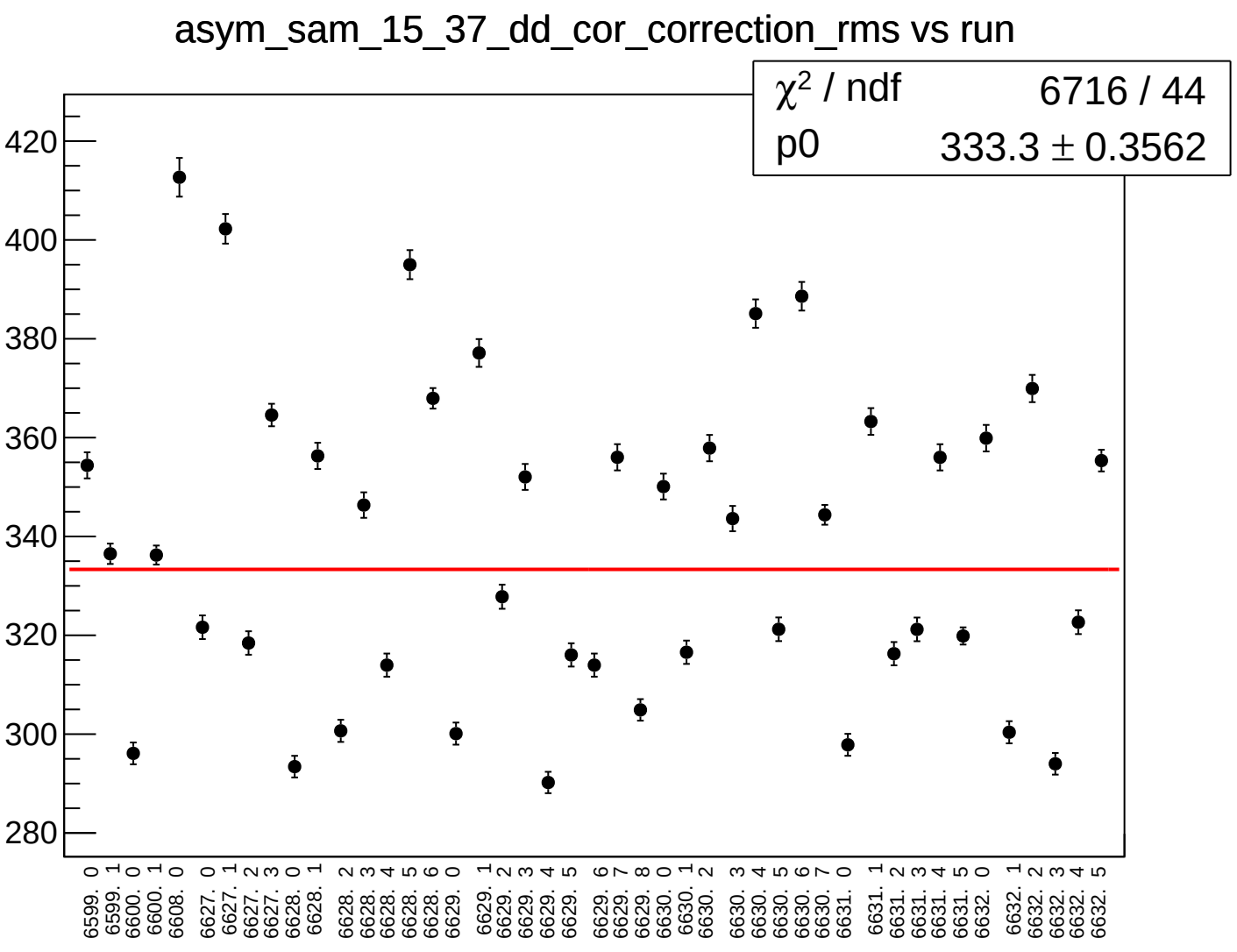
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −606.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.006002
Std Dev 0.8345
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 6716 / 44
p0 333.3 ± 0.3562
420
400
380
360
340
320
300
280
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
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6628. 1
6628. 2
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6628. 6
6629. 0
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6629. 2
6629. 3
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6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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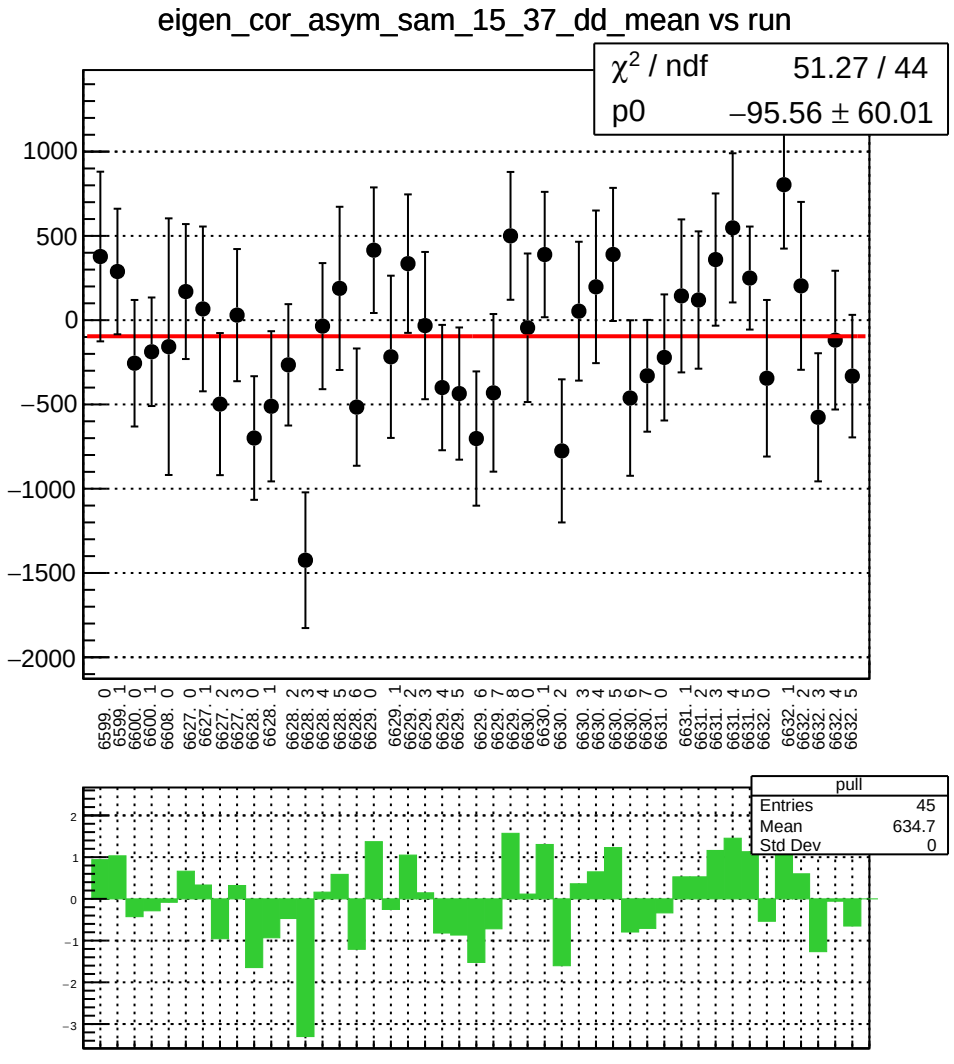
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 51.27 / 44
p0 −95.56 ± 60.01
1000
500
0
−500
−1000
−1500
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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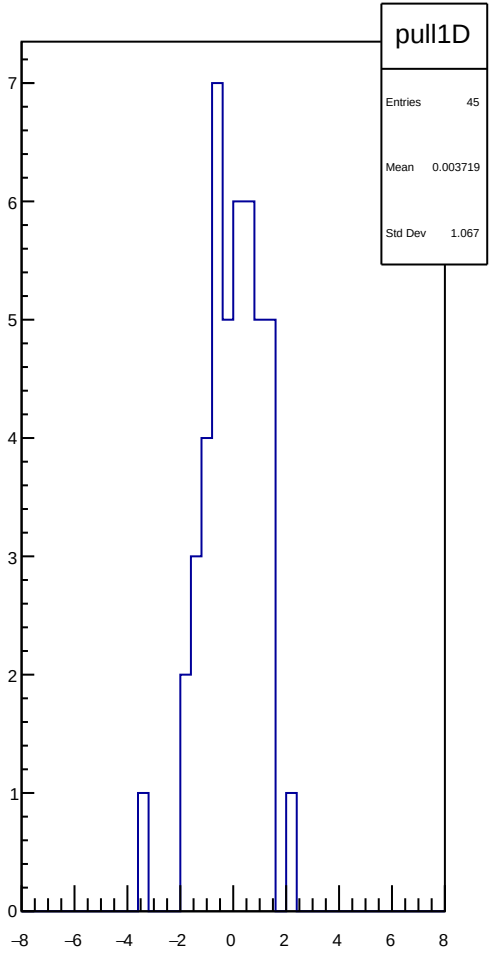
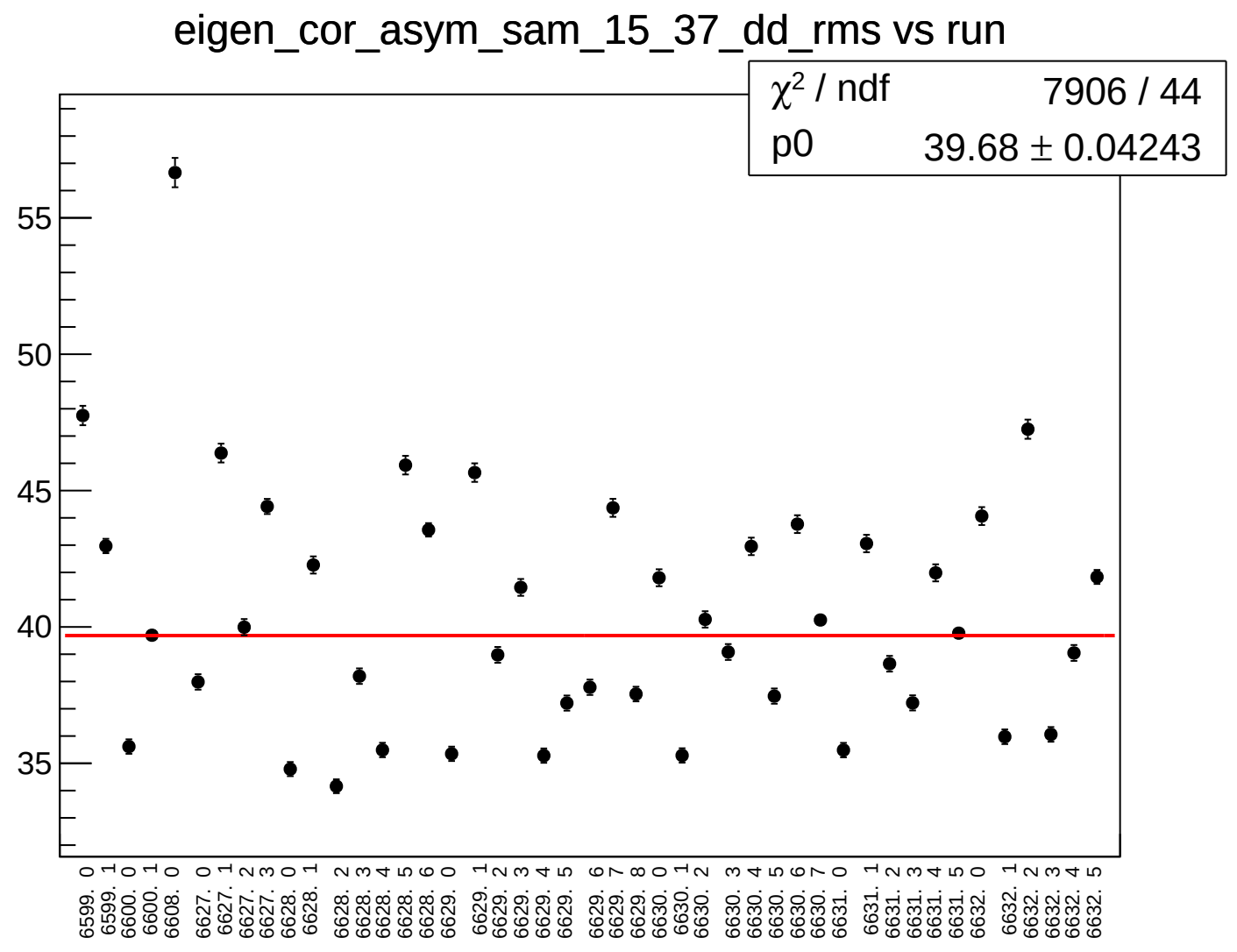
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 634.7
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.003719
Std Dev 1.067
7
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 7906 / 44
p0 39.68 ± 0.04243
55
50
45
40
35
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 4
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6628. 6
6629. 0
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6629. 6
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6629. 8
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6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
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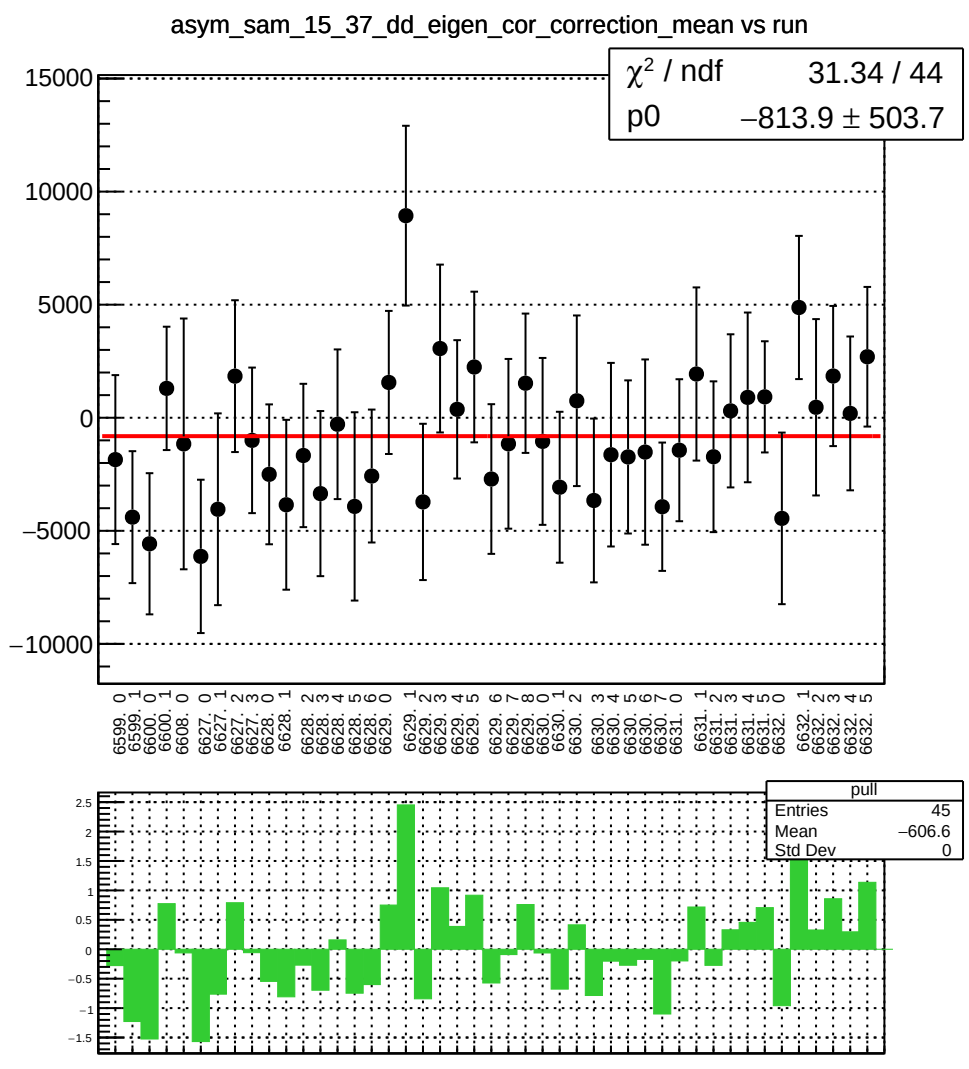
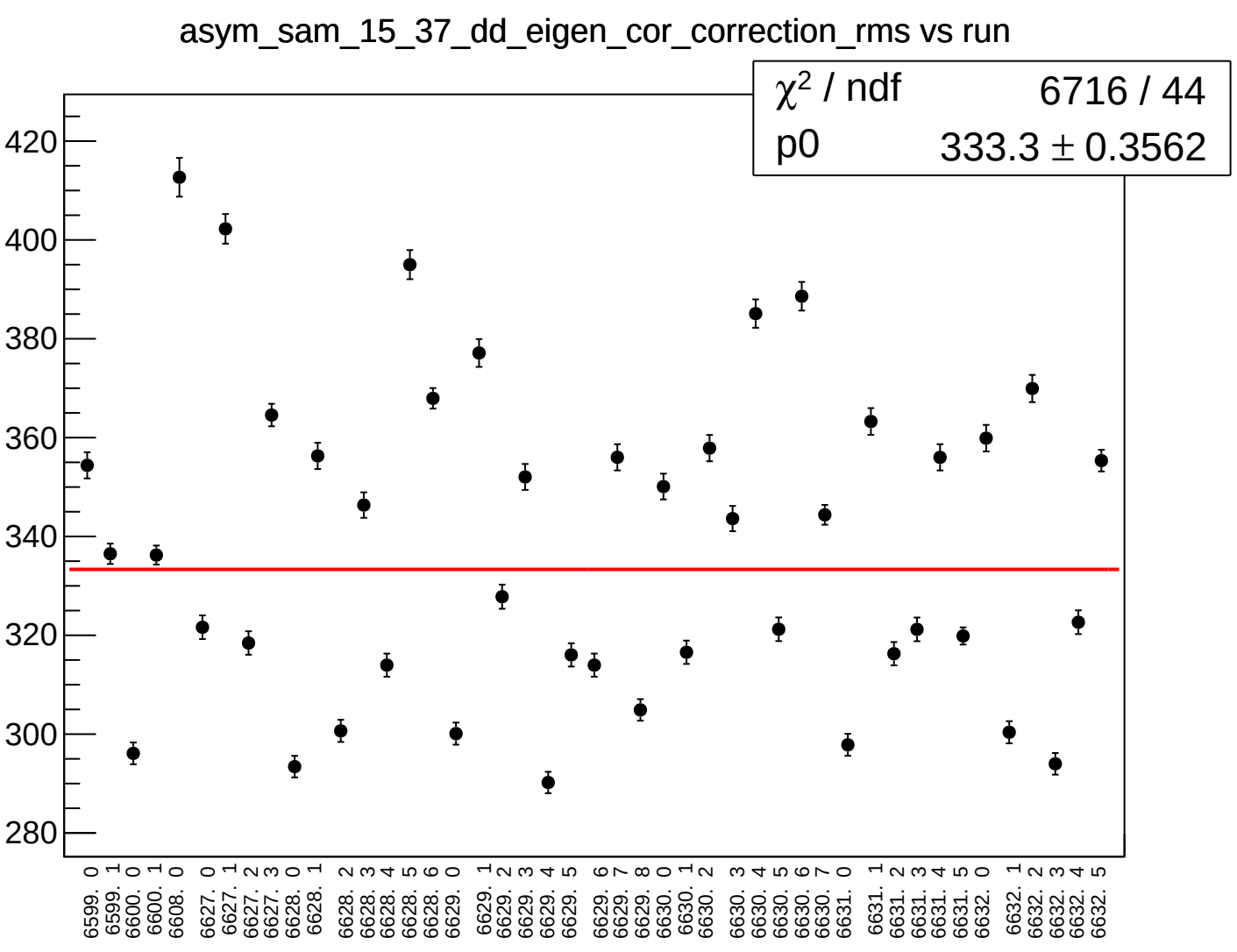
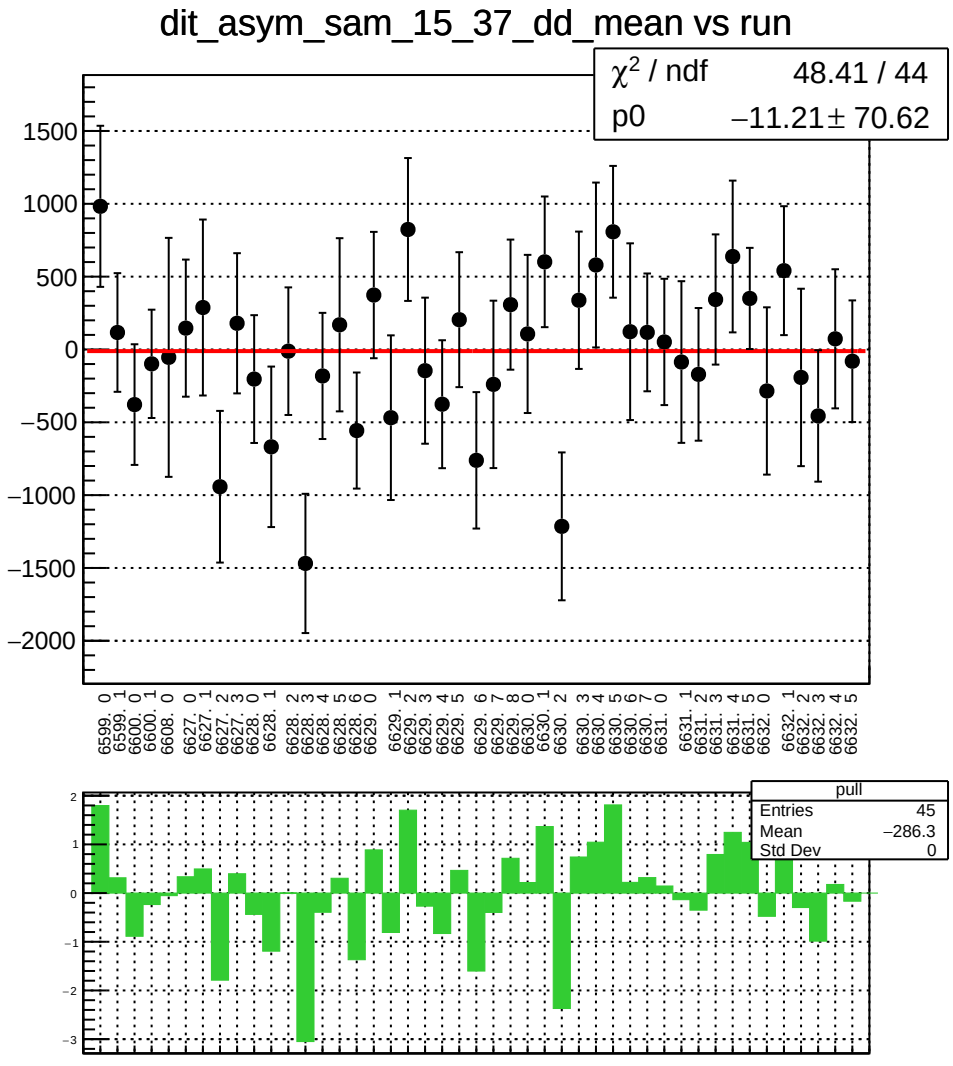
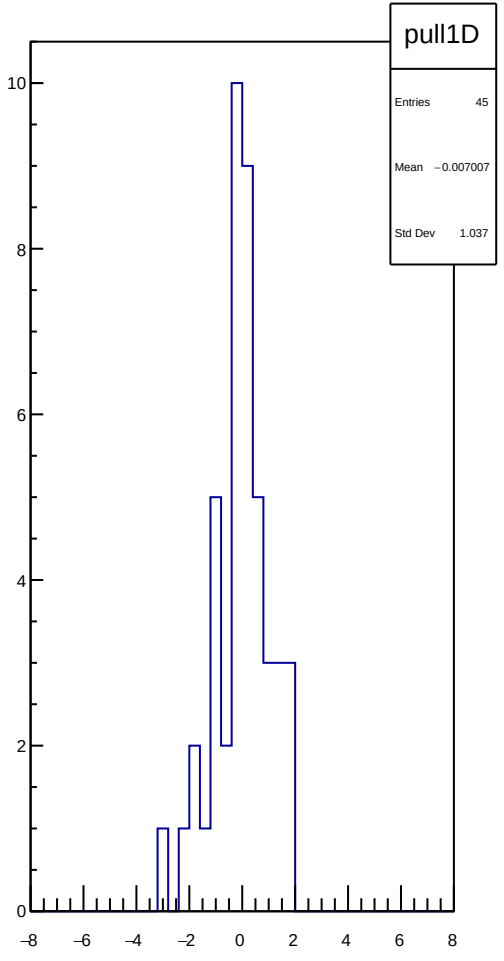
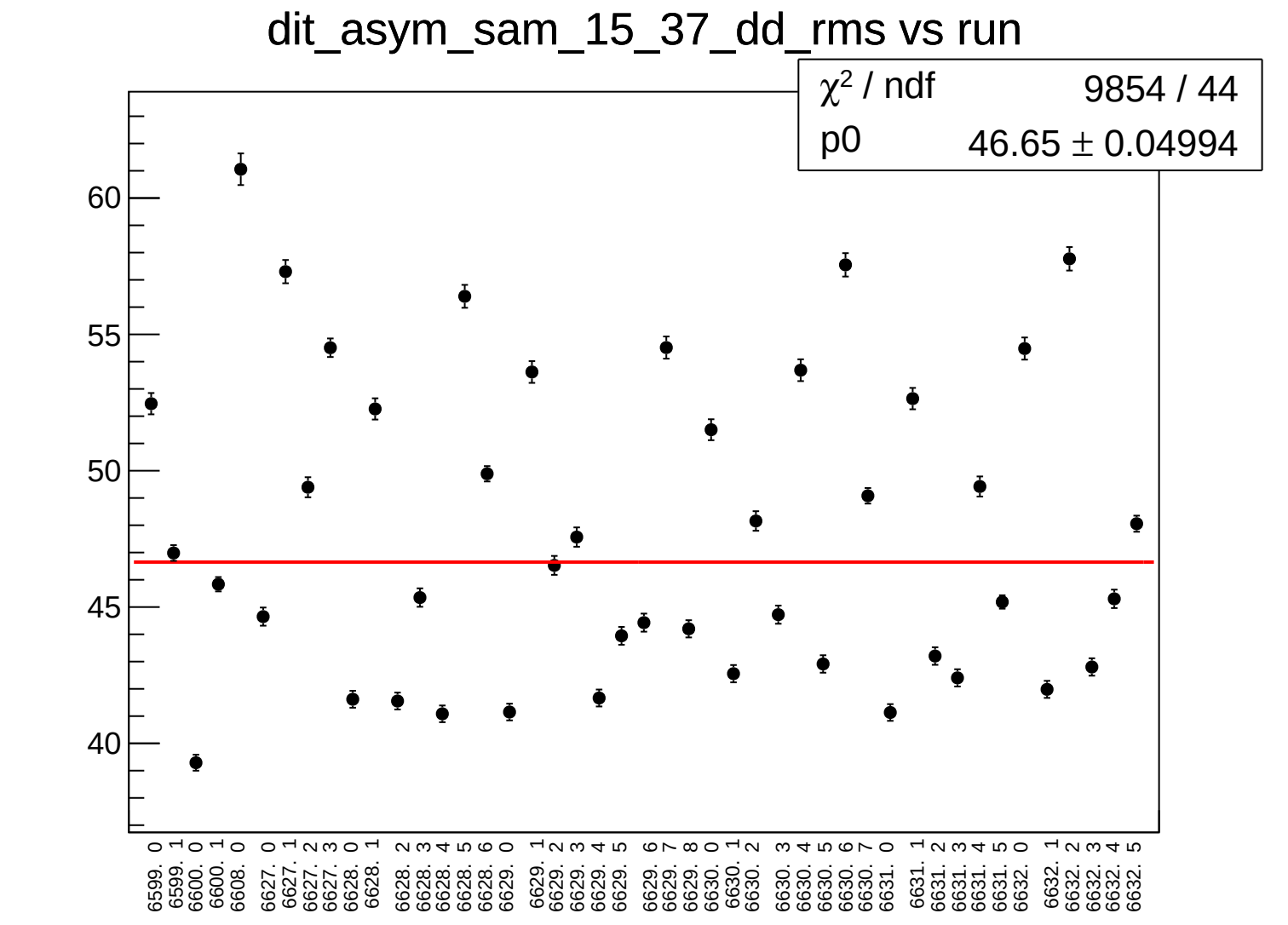
6632. 2
6632. 3
6632. 4
6632. 5

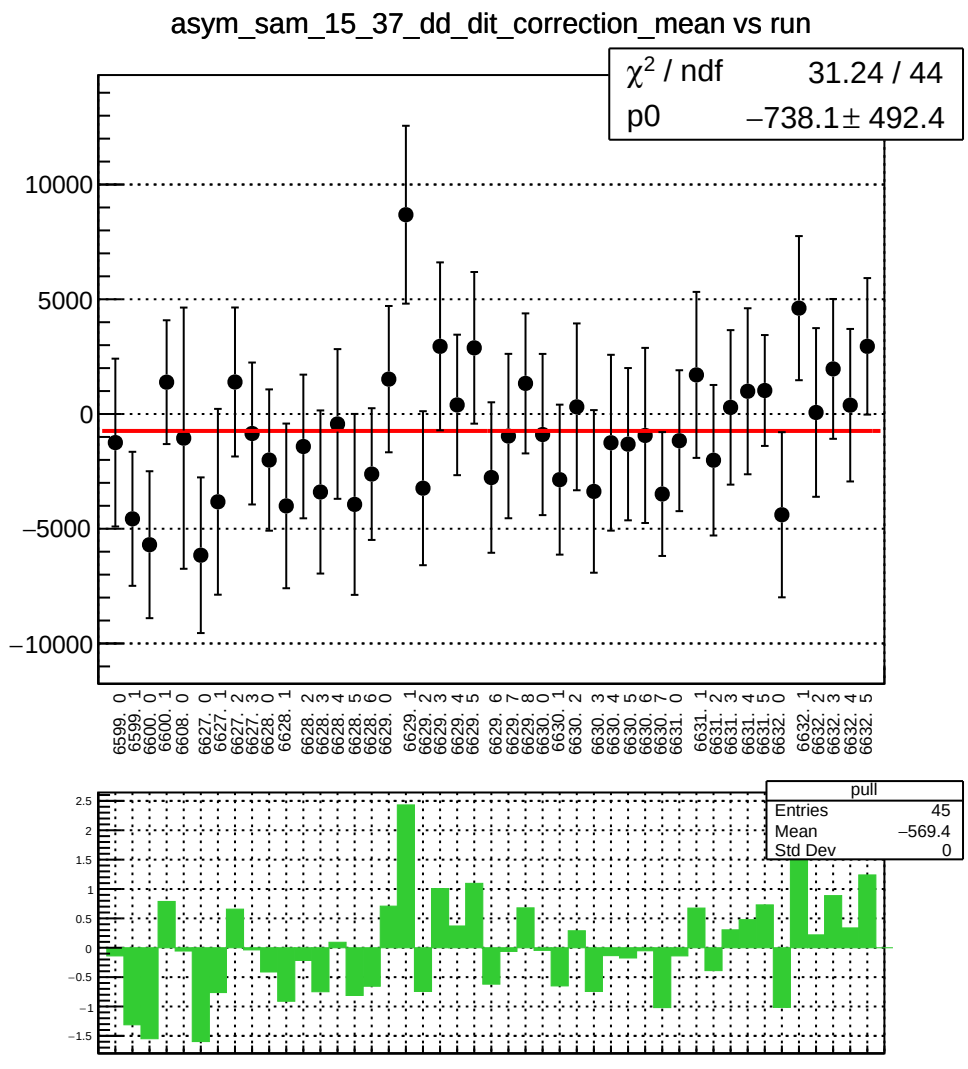

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 31.34 / 44
p0 −813.9 ± 503.7
15000
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −606.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.006002
Std Dev 0.8345
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

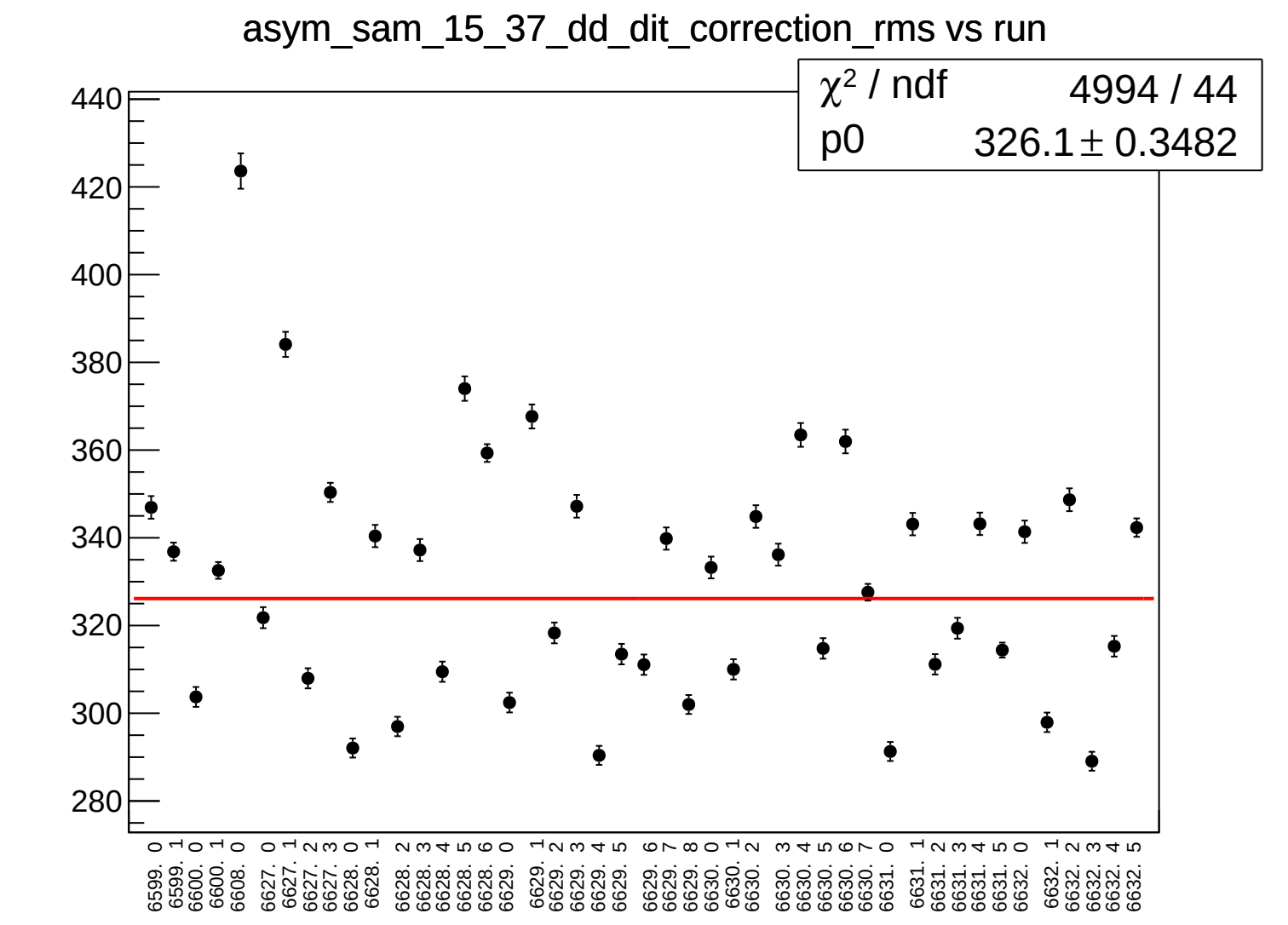

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 6716 / 44
p0 333.3 ± 0.3562
420
400
380
360
340
320
300
280
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

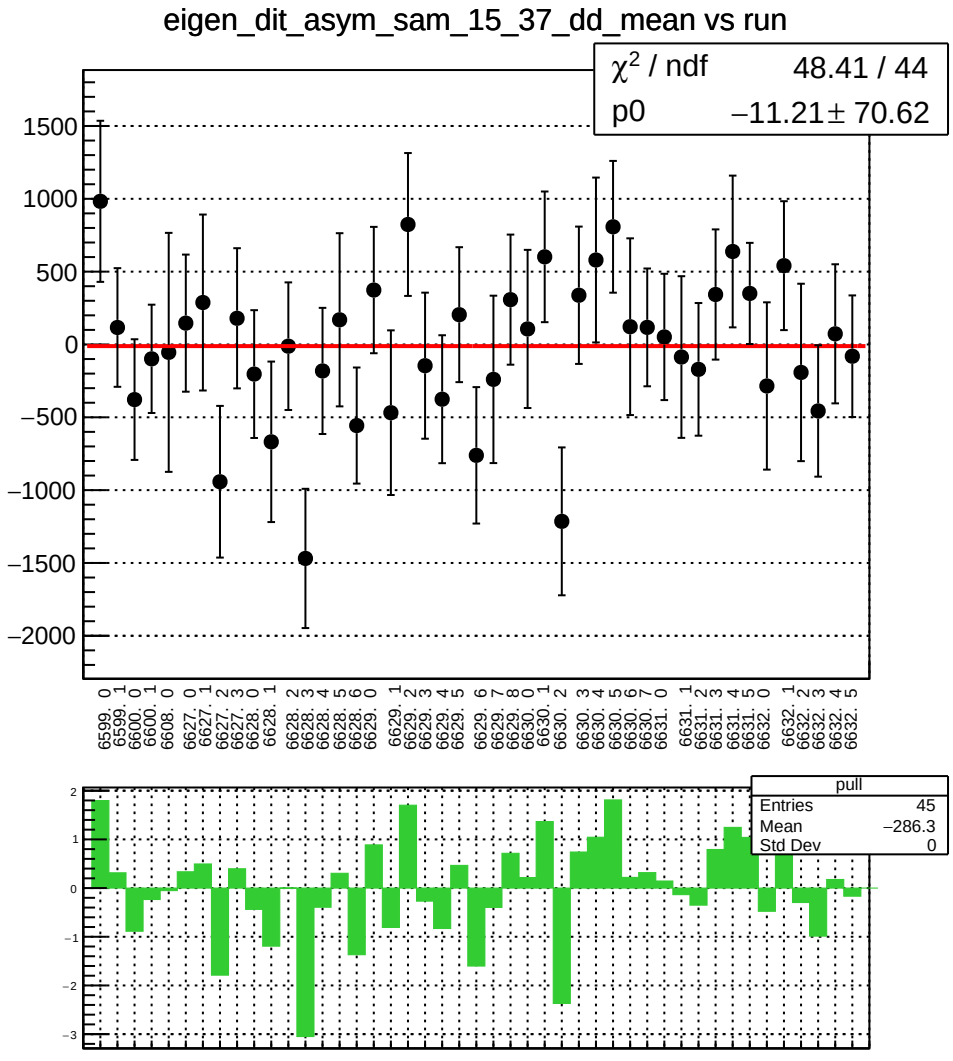

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 48.41 / 44
p0 −11.21± 70.62
1500
1000
500
0
−500
−1000
−1500
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −286.3
Std Dev 0
2
1
0
−1
−2
−3

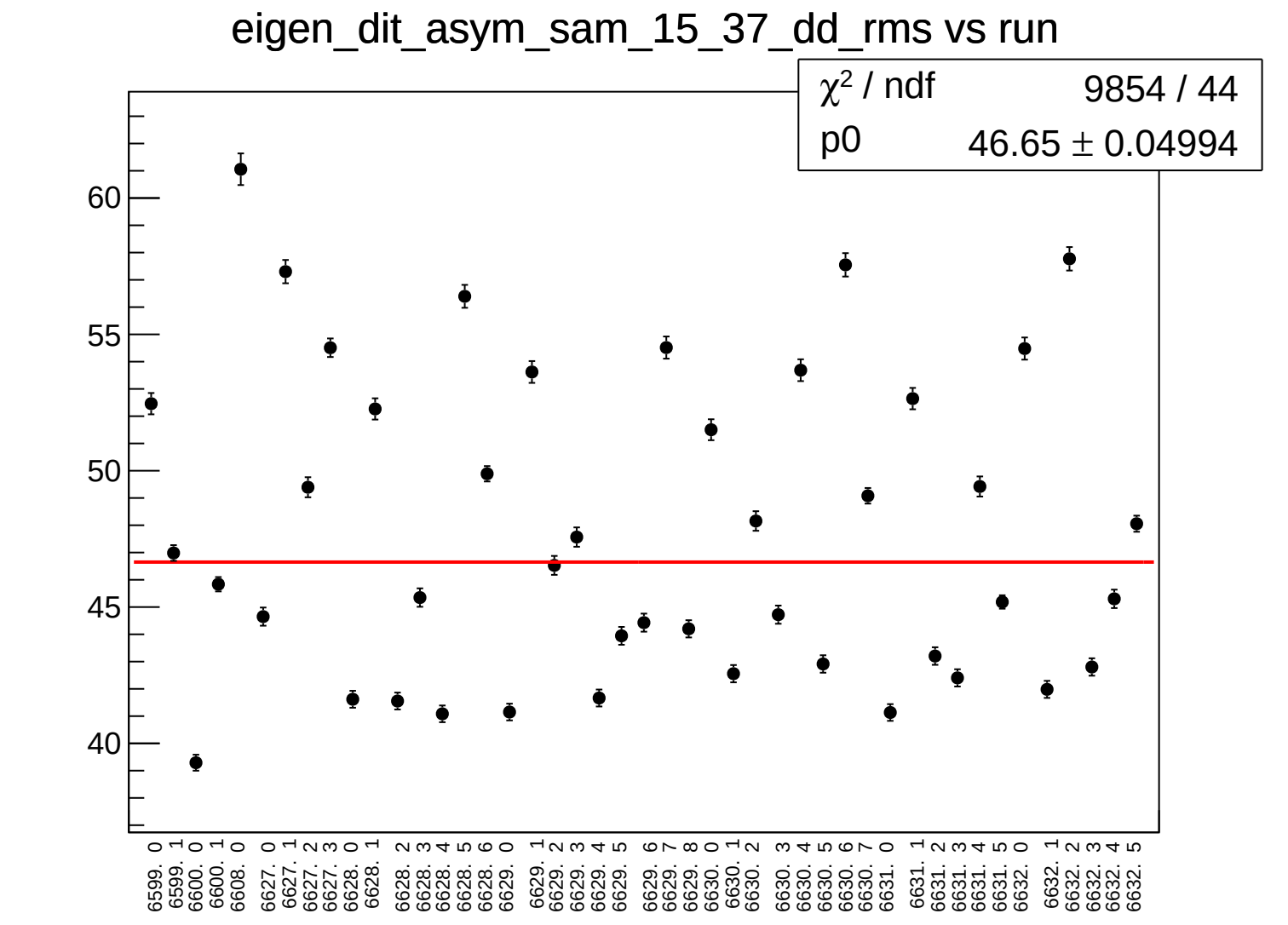

pull1D
Entries 45
Mean −0.007007
Std Dev 1.037
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

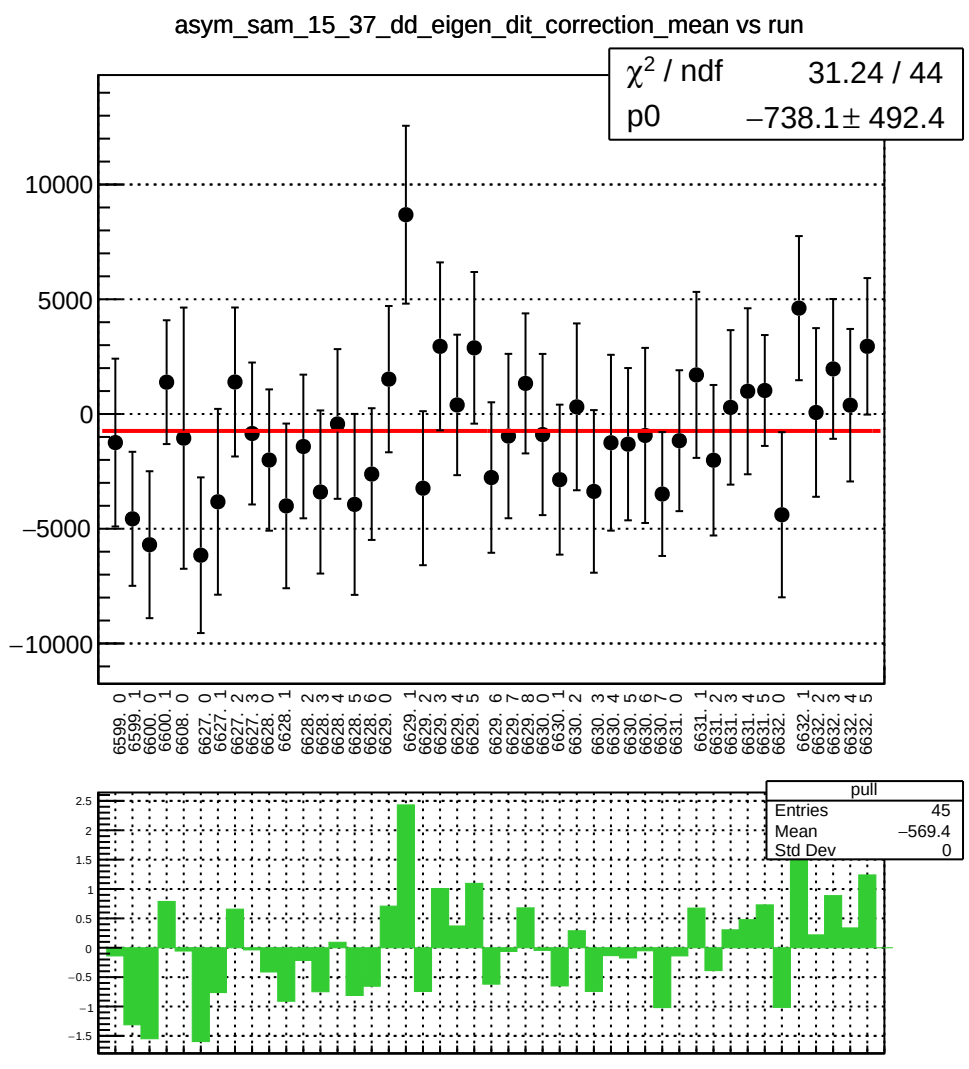

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 9854 / 44
p0 46.65 ± 0.04994
60
55
50
45
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

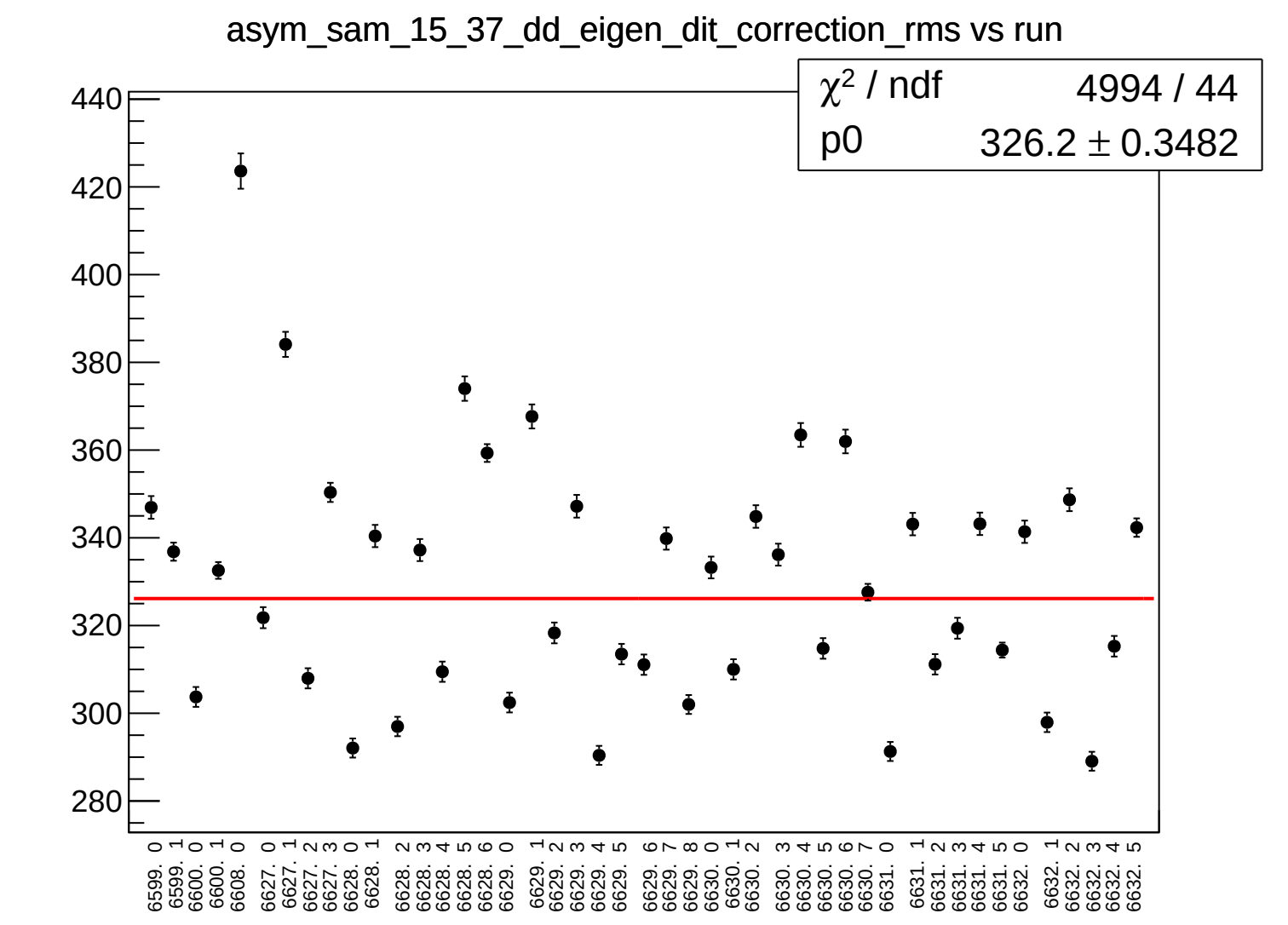

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 31.24 / 44
p0 −738.1± 492.4
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −569.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.006478
Std Dev 0.8332
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

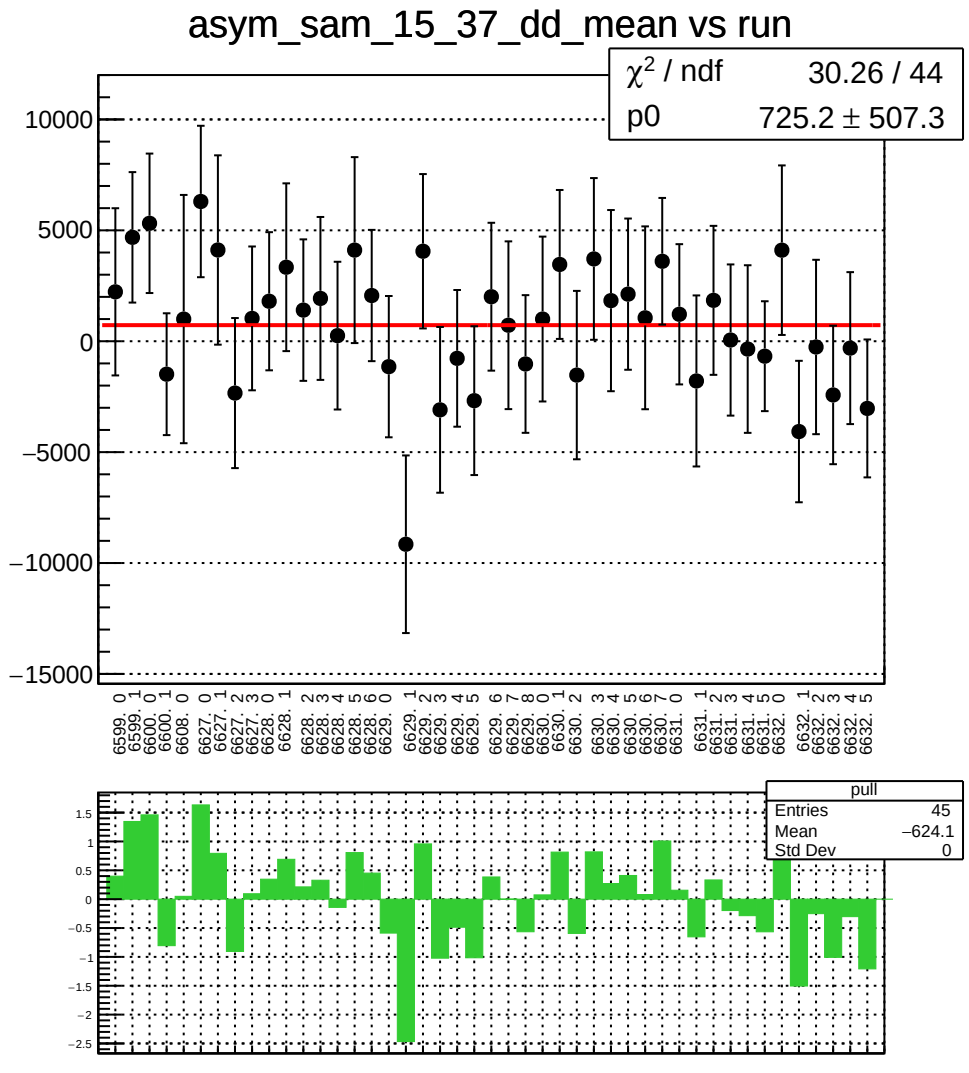

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 4994 / 44
p0 326.1 ± 0.3482
440
420
400
380
360
340
320
300
280
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

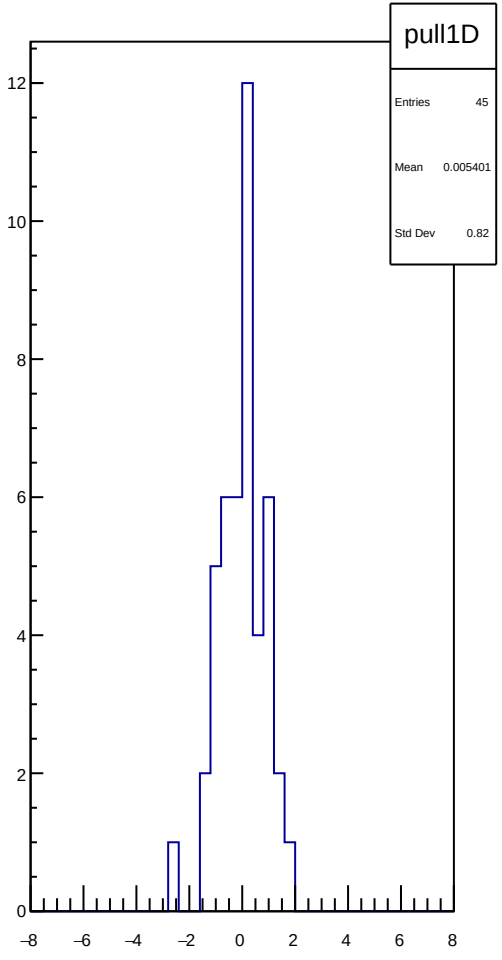

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 48.41 / 44
p0 −11.21± 70.62
1500
1000
500
0
−500
−1000
−1500
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −286.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.007007
Std Dev 1.037
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

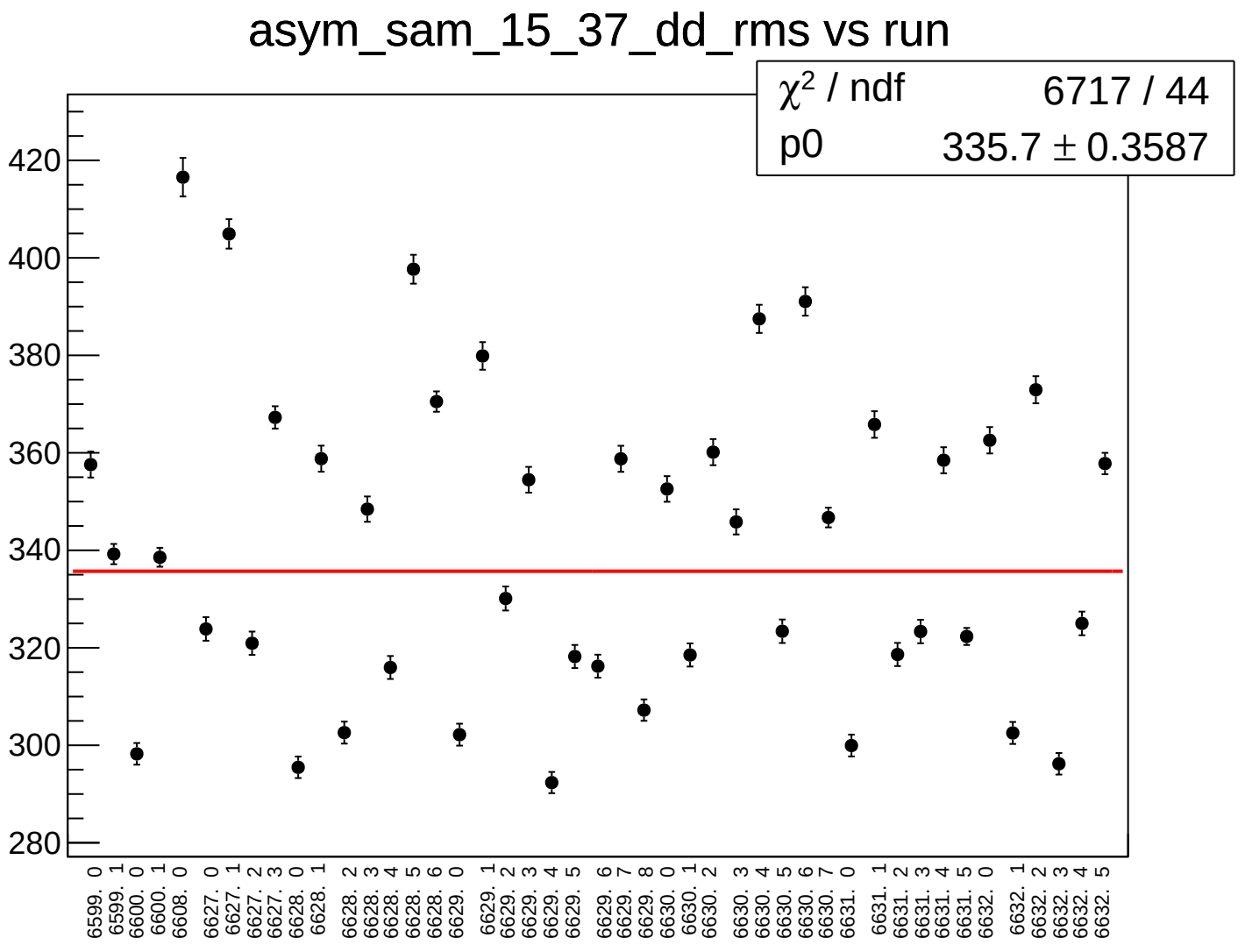

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 9854 / 44
p0 46.65 ± 0.04994
60
55
50
45
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 31.24 / 44
p0 −738.1± 492.4
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −569.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.006478
Std Dev 0.8332
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 4994 / 44
p0 326.2 ± 0.3482
440
420
400
380
360
340
320
300
280
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_15_37_dd_mean vs run
χ² / ndf 30.26 / 44
p0 725.2 ± 507.3
10000
5000
0
−5000
−10000
−15000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −624.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.005401
Std Dev 0.82
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_37_dd_rms vs run
χ² / ndf 6717 / 44
p0 335.7 ± 0.3587
420
400
380
360
340
320
300
280
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 6
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6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 5
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6632. 1
6632. 2
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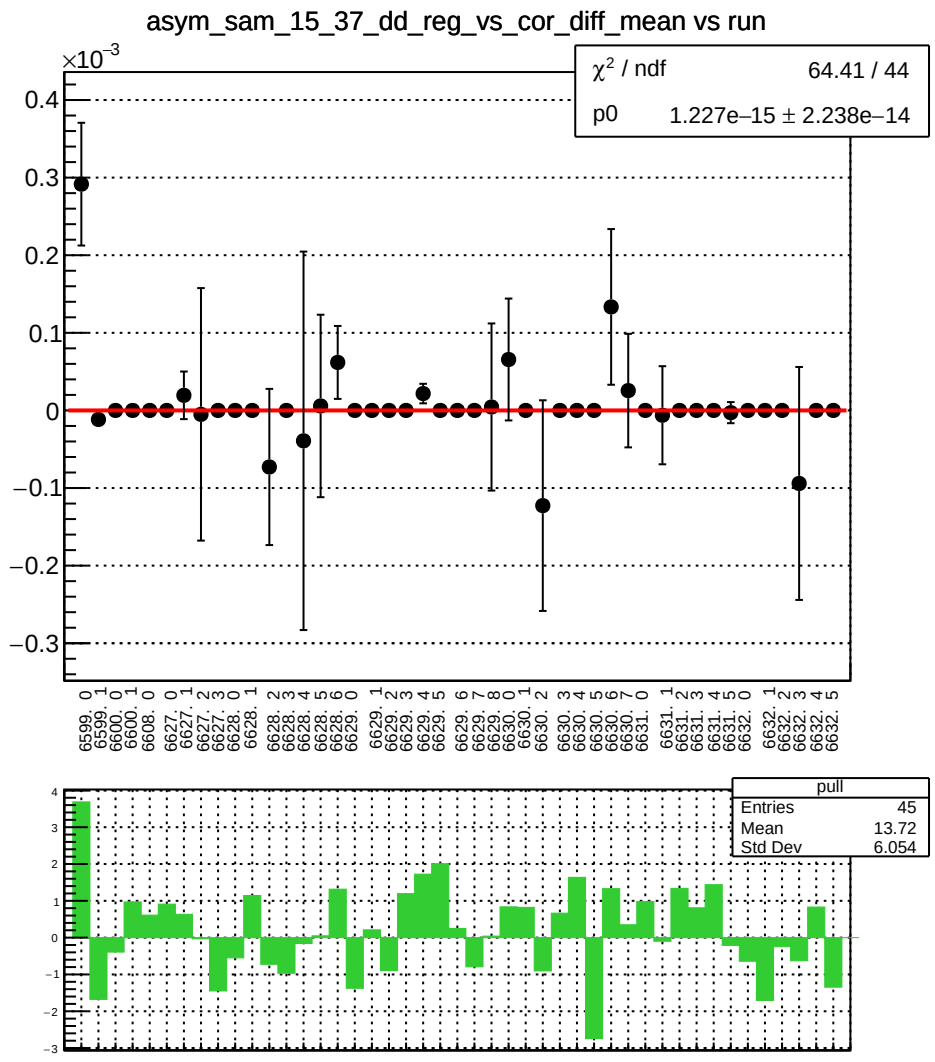
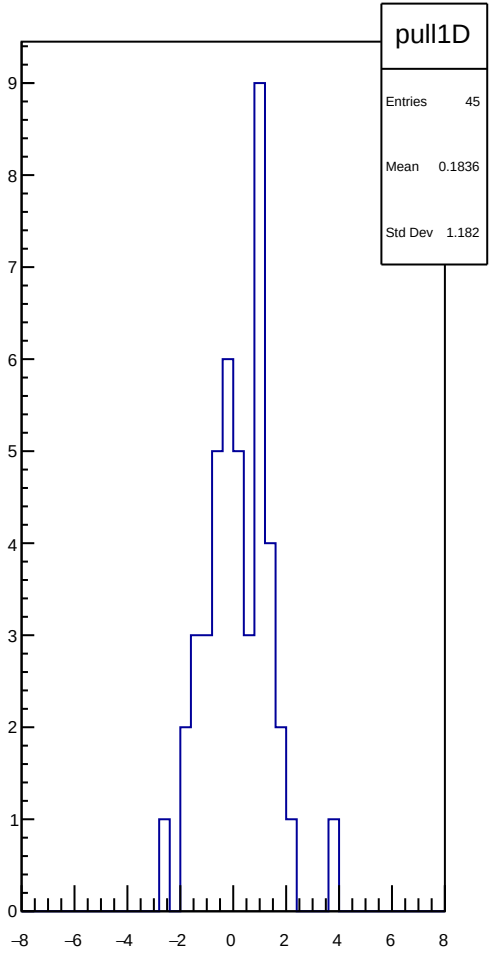
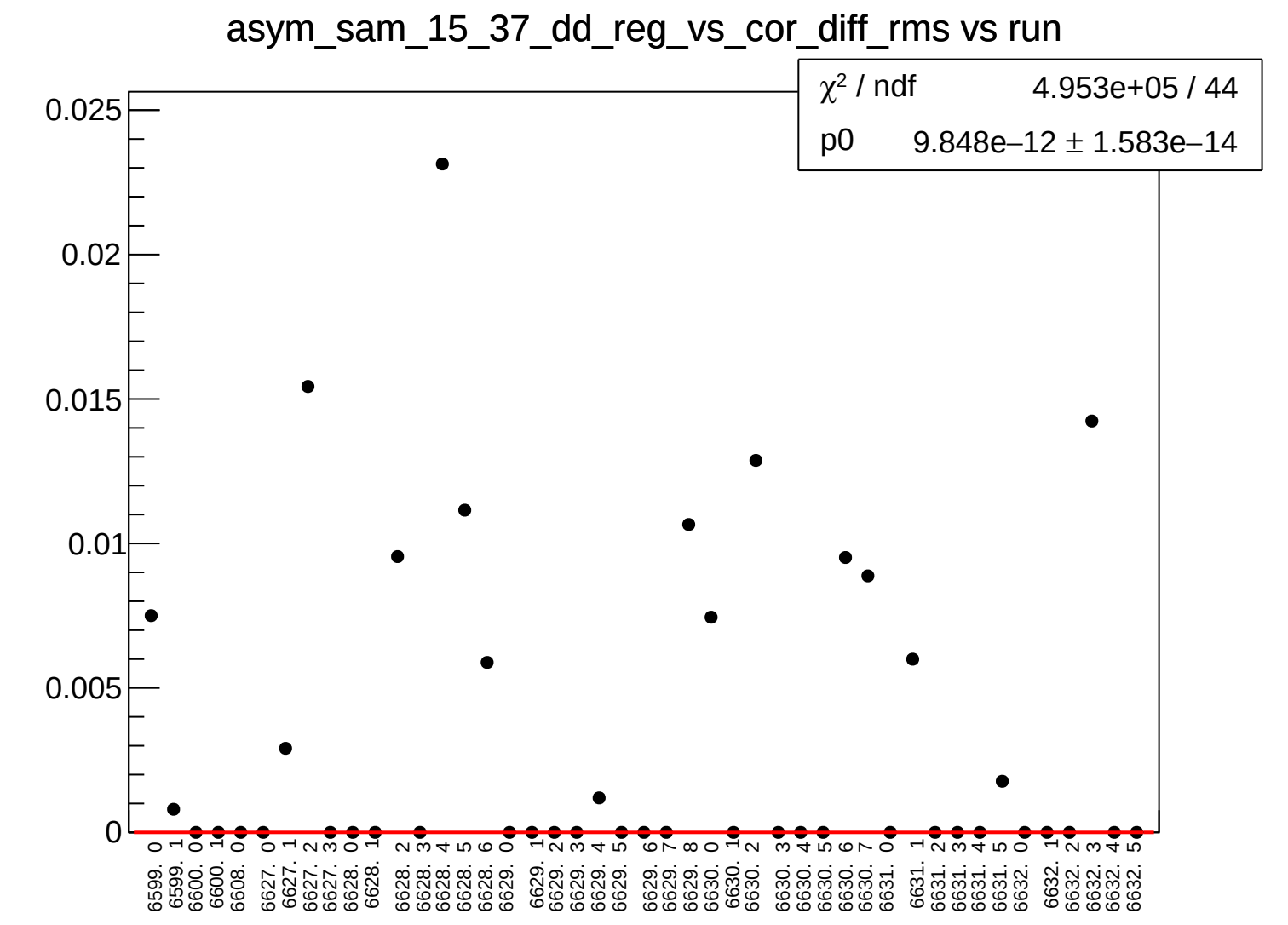
6632. 4
6632. 5


asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 64.41 / 44
p0 1.227e−15 ± 2.238e−14
pull
Entries 45
Mean 13.72
Std Dev 6.054


pull1D
Entries 45
Mean 0.1836
Std Dev 1.182


asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.953e+05 / 44
p0 9.848e−12 ± 1.583e−14
0.025
0.02
0.015
0.01
0.005
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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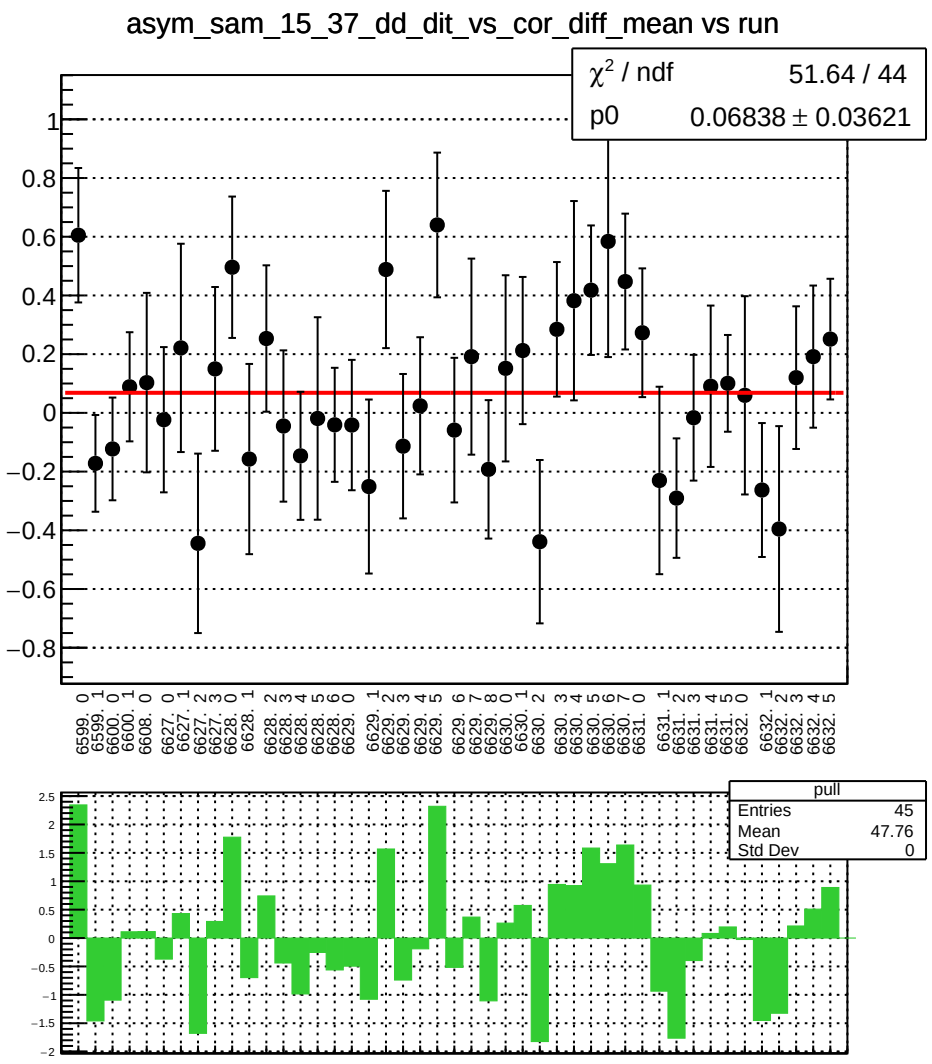
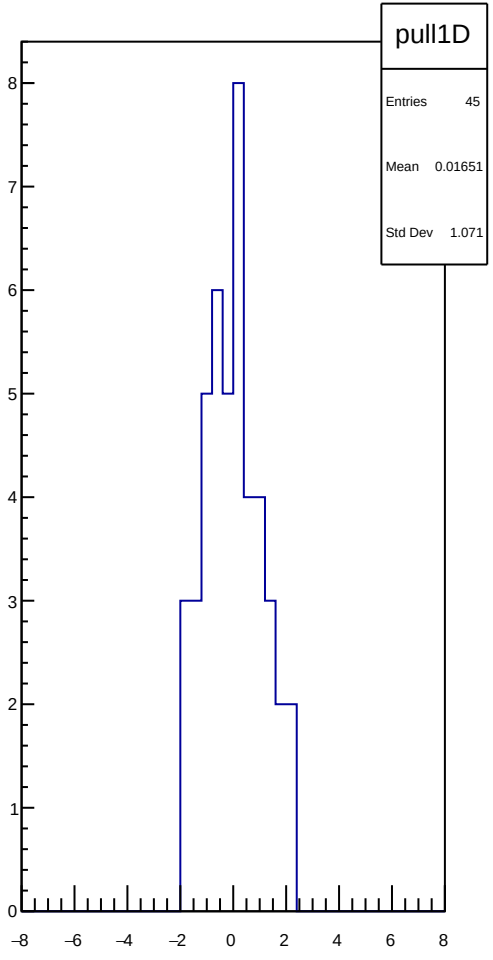
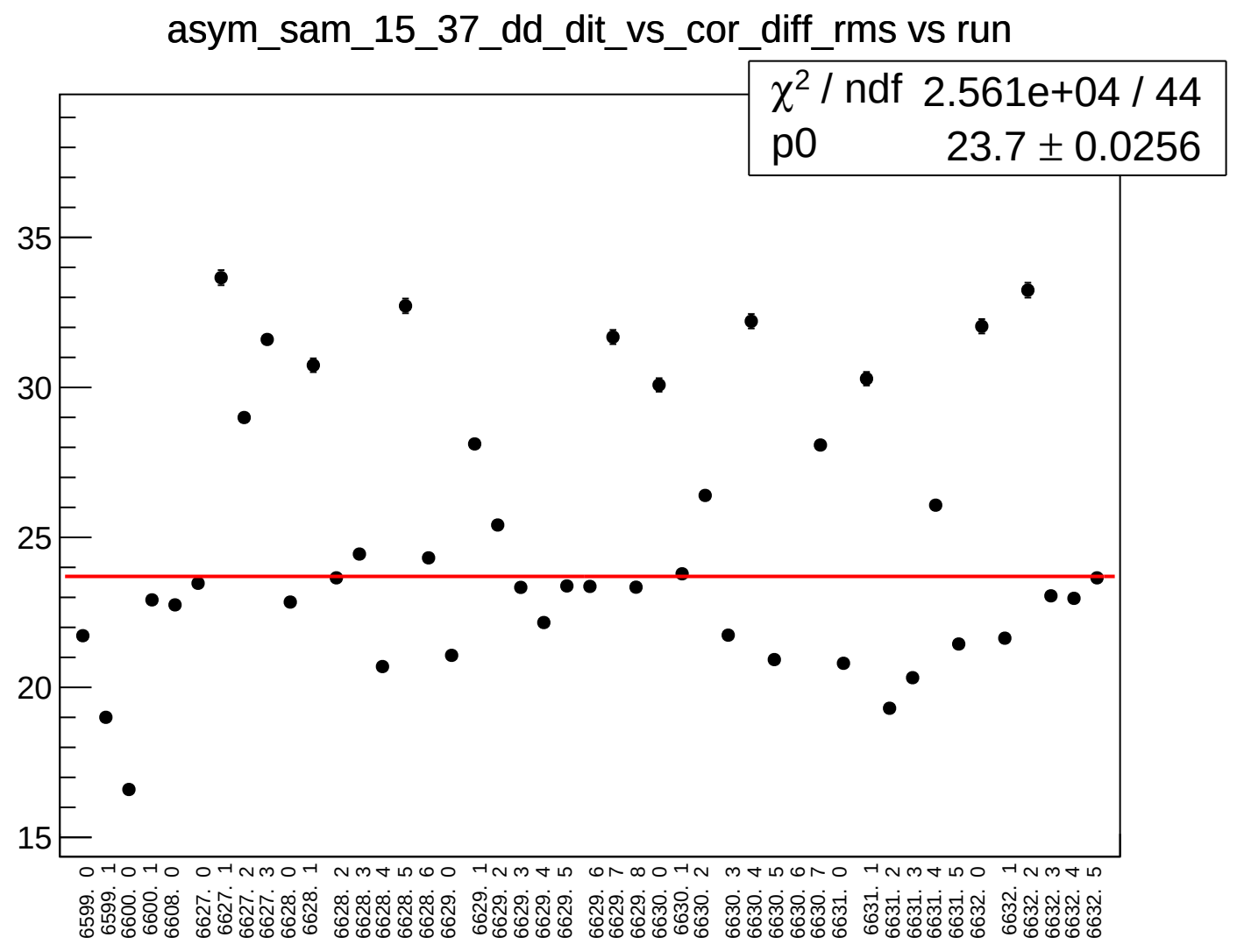
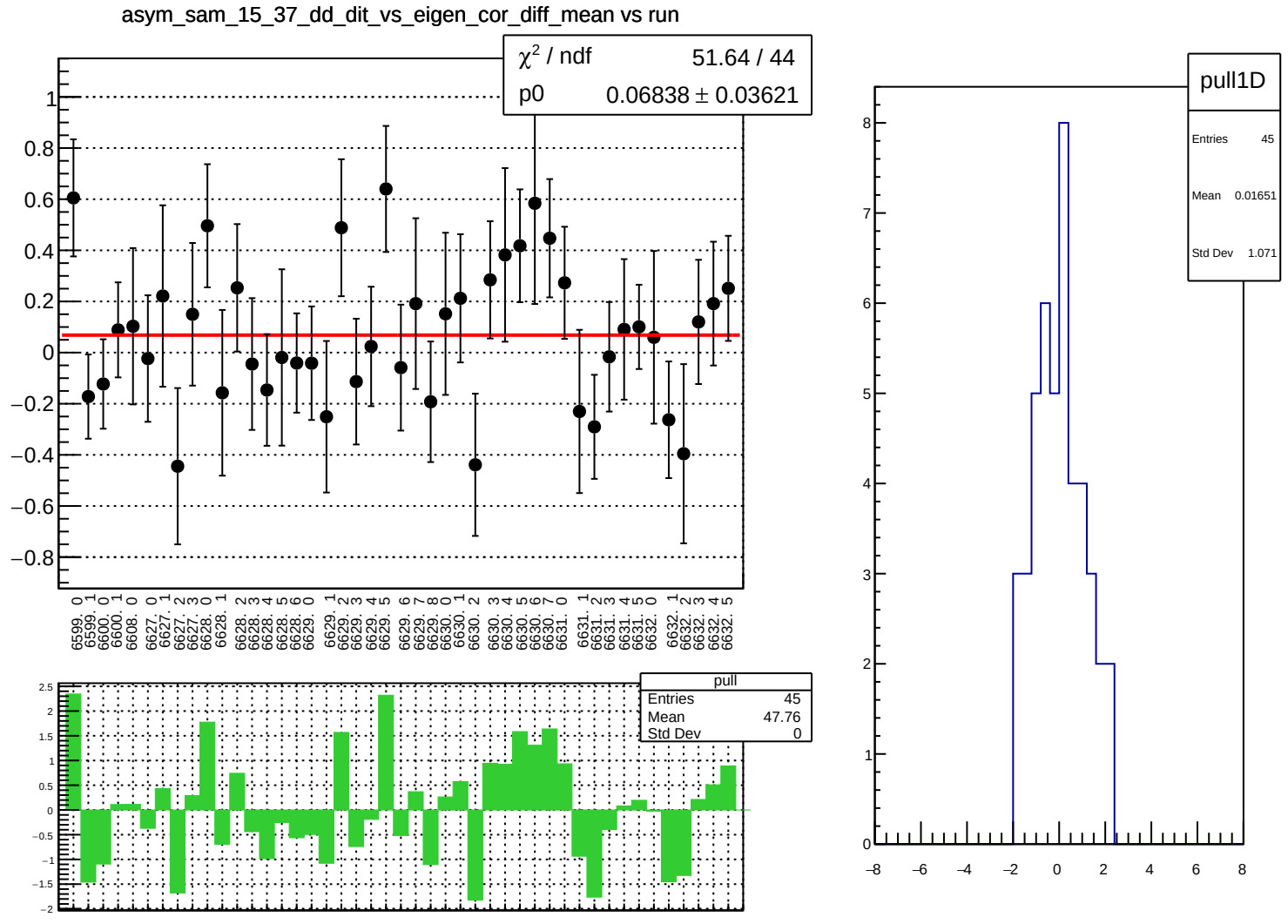
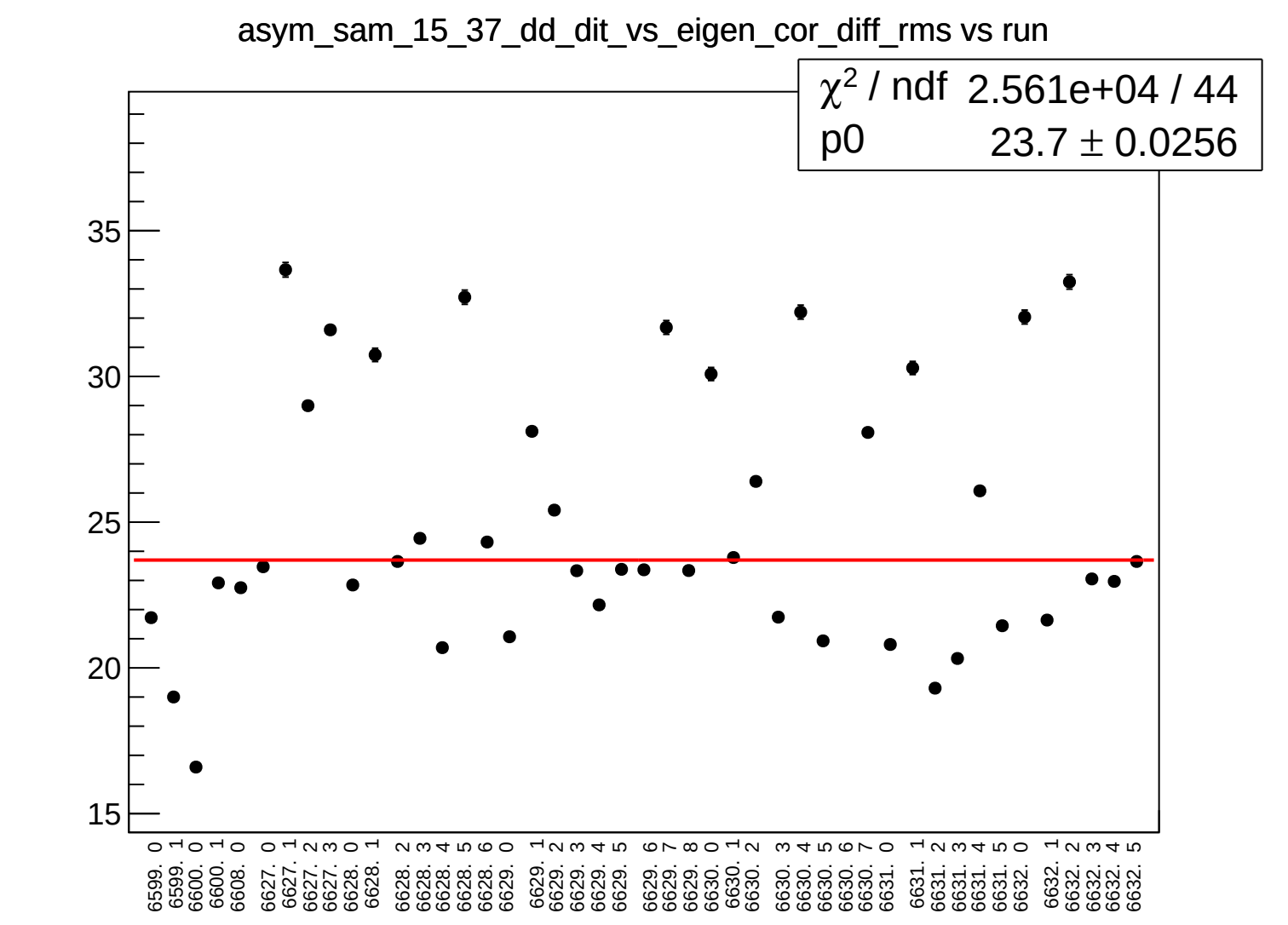
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

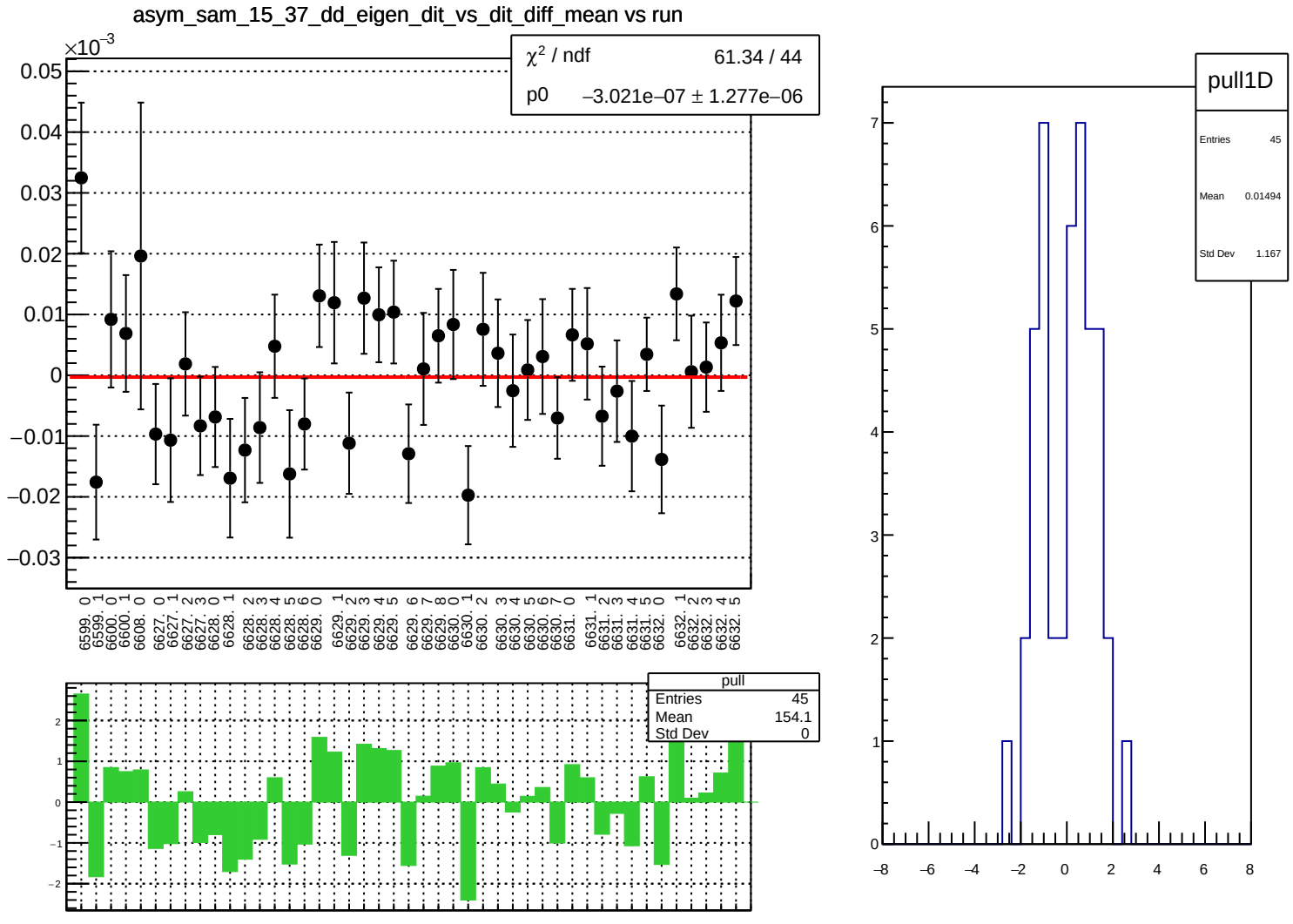

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 51.64 / 44
p0 0.06838 ± 0.03621
pull
Entries 45
Mean 47.76
Std Dev 0

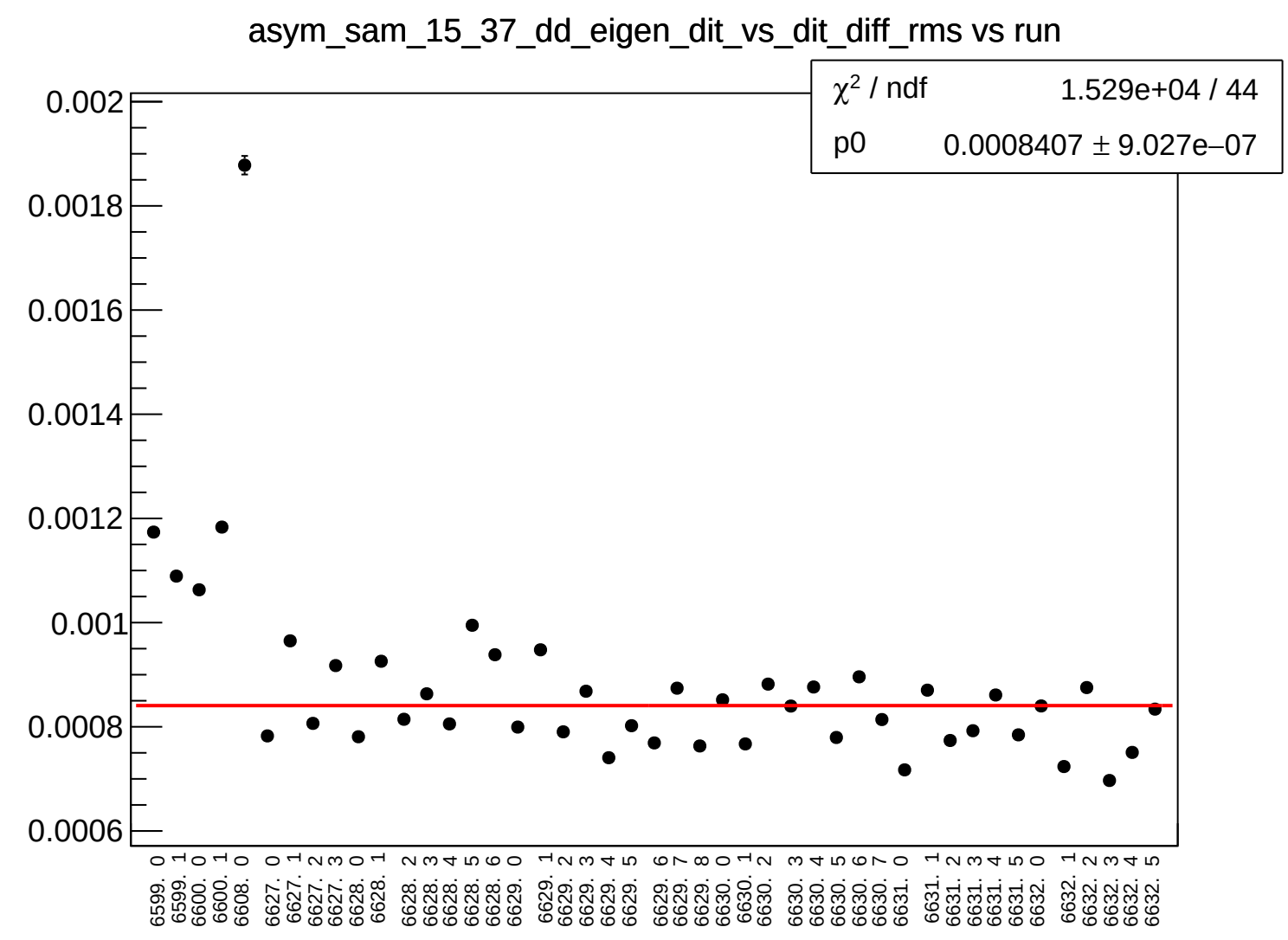

pull1D
Entries 45
Mean 0.01651
Std Dev 1.071


asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.561e+04 / 44
p0 23.7 ± 0.0256
35
30
25
20
15
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.64 / 44
p0 0.06838 ± 0.03621
pull
Entries 45
Mean 47.76
Std Dev 0
pull1D
Entries 45
Mean 0.01651
Std Dev 1.071


asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.561e+04 / 44
p0 23.7 ± 0.0256
35
30
25
20
15
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 61.34 / 44
p0 −3.021e−07 ± 1.277e−06
pull
Entries 45
Mean 154.1
Std Dev 0
pull1D
Entries 45
Mean 0.01494
Std Dev 1.167


asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.529e+04 / 44
p0 0.0008407 ± 9.027e−07
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
6632. 0
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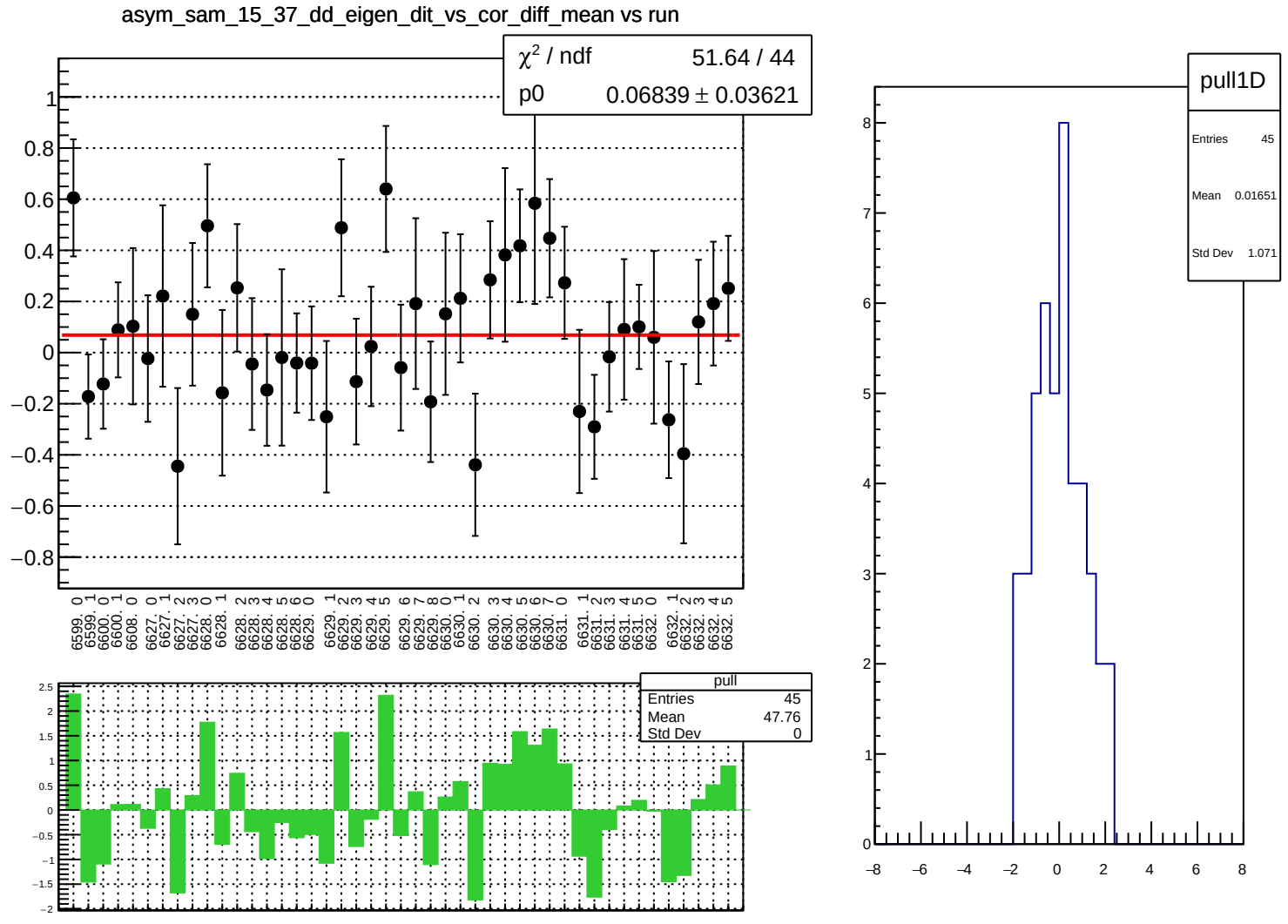
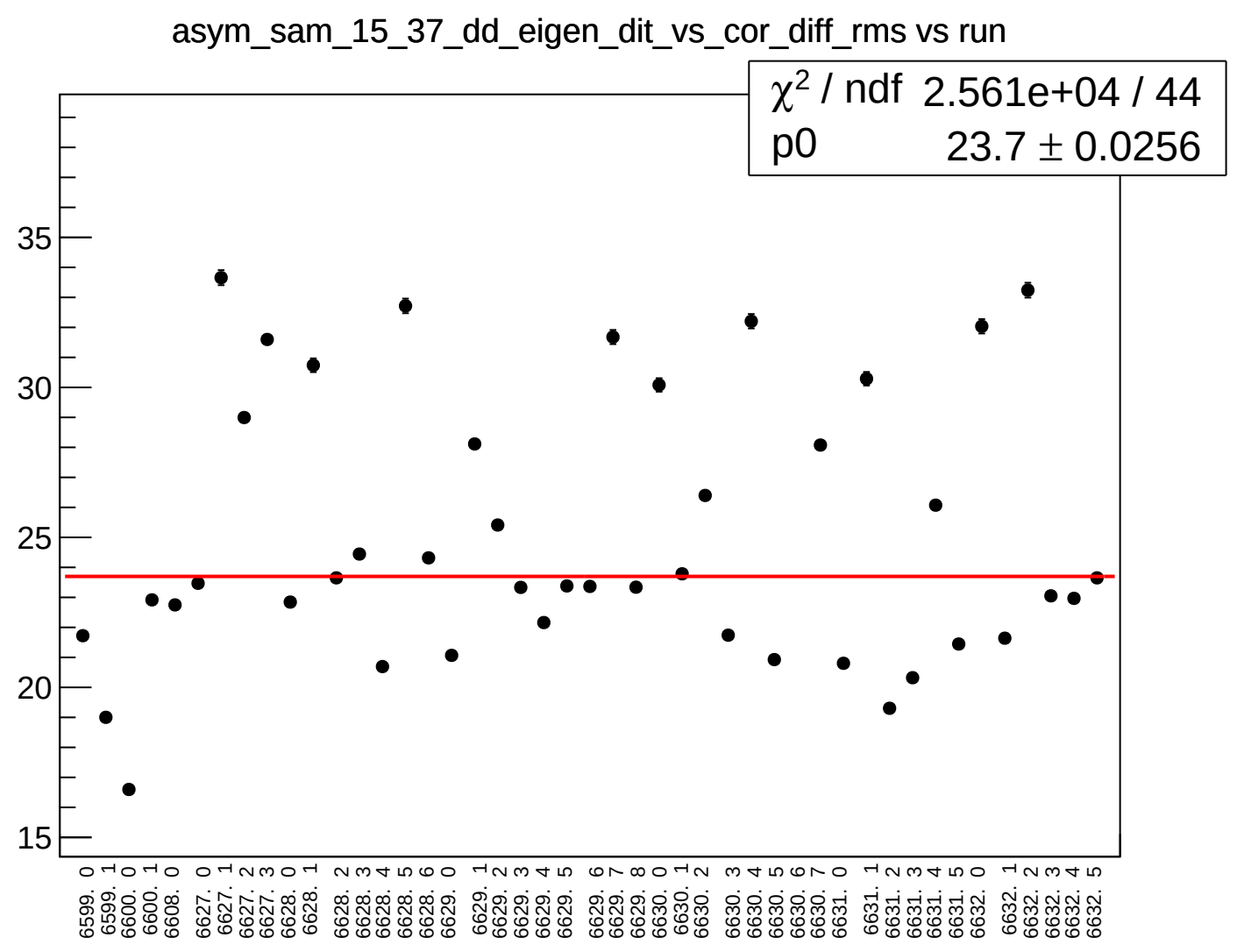
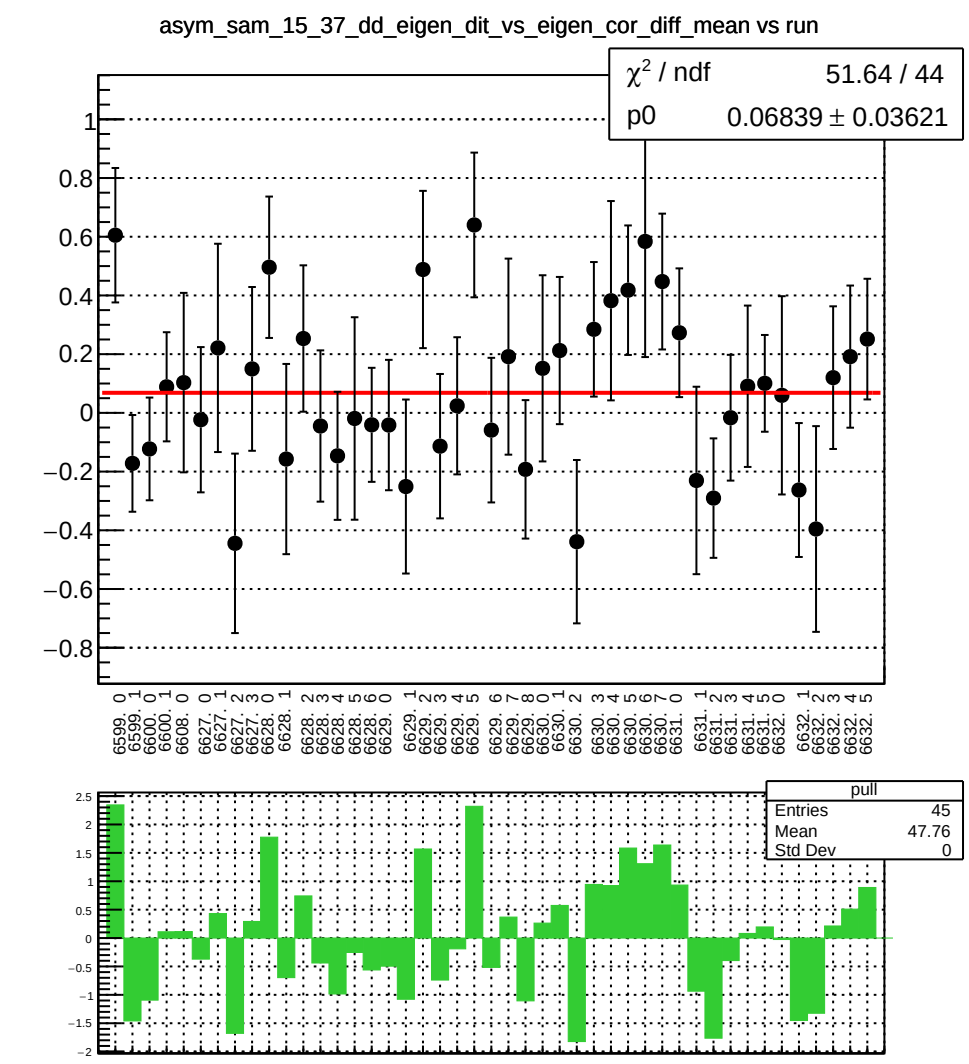
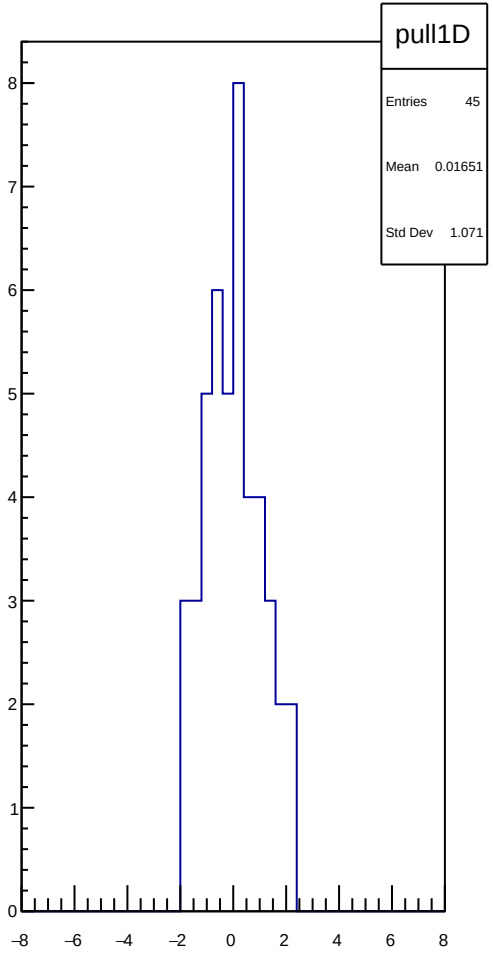
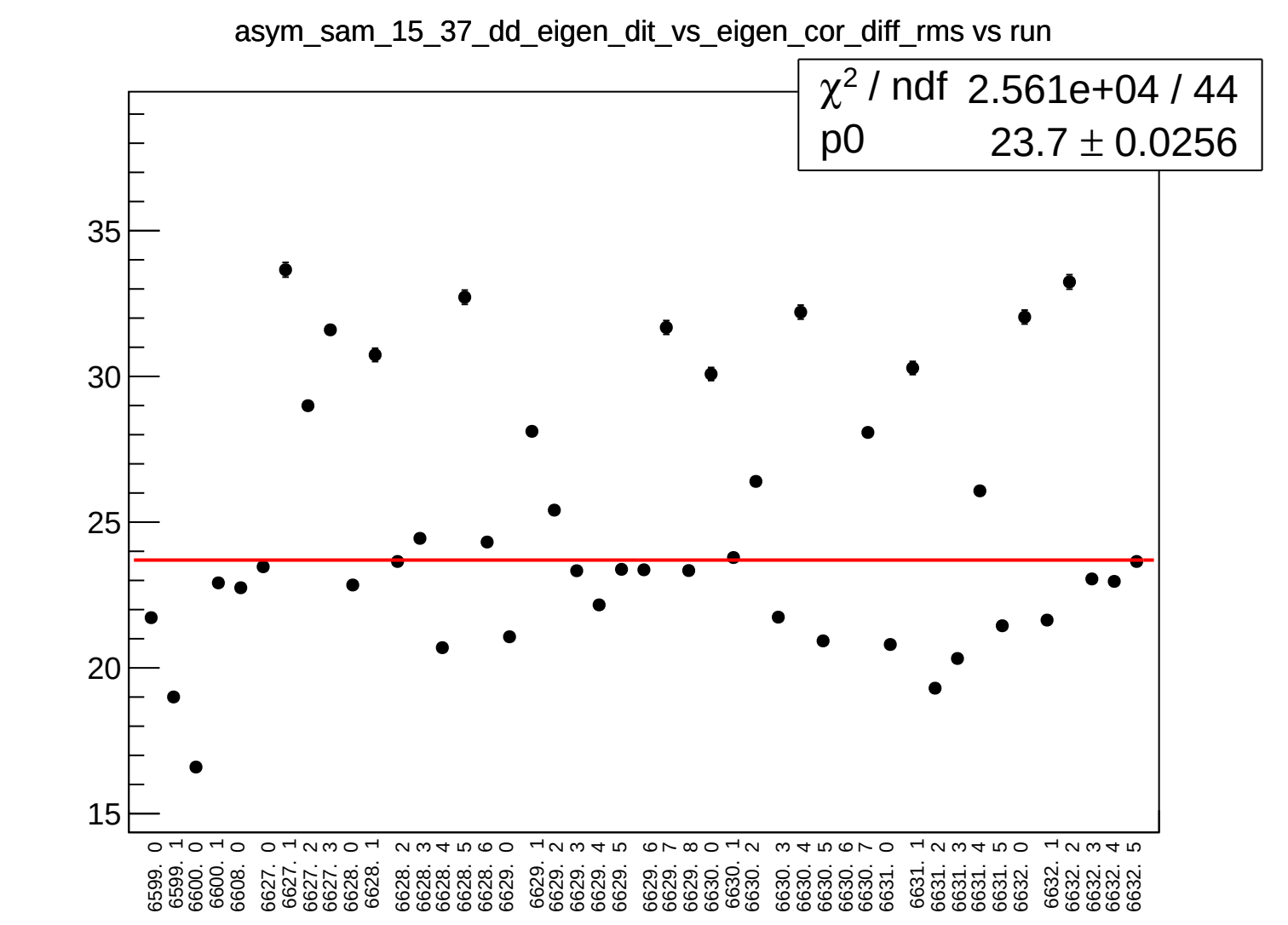
6632. 2
6632. 3
6632. 4
6632. 5

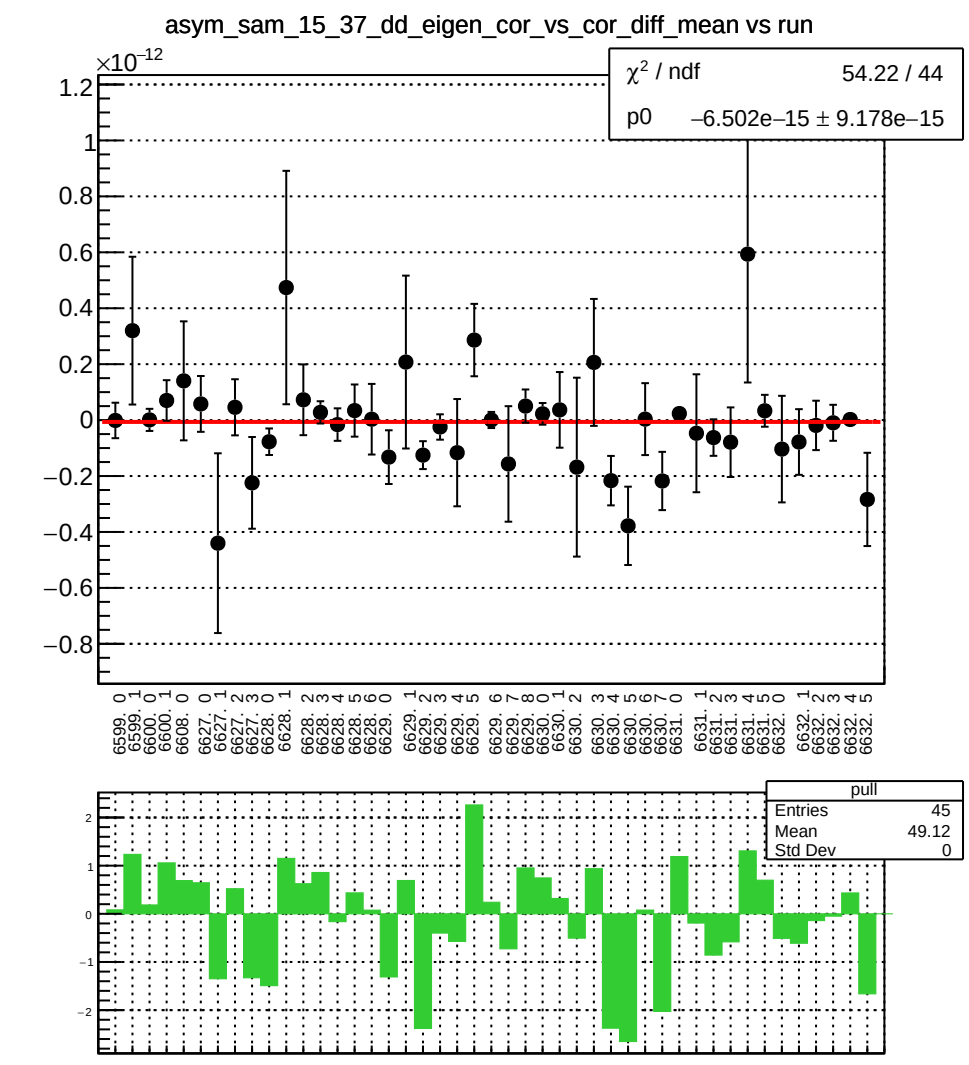

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 51.64 / 44
p0 0.06839 ± 0.03621
pull
Entries 45
Mean 47.76
Std Dev 0
pull1D
Entries 45
Mean 0.01651
Std Dev 1.071

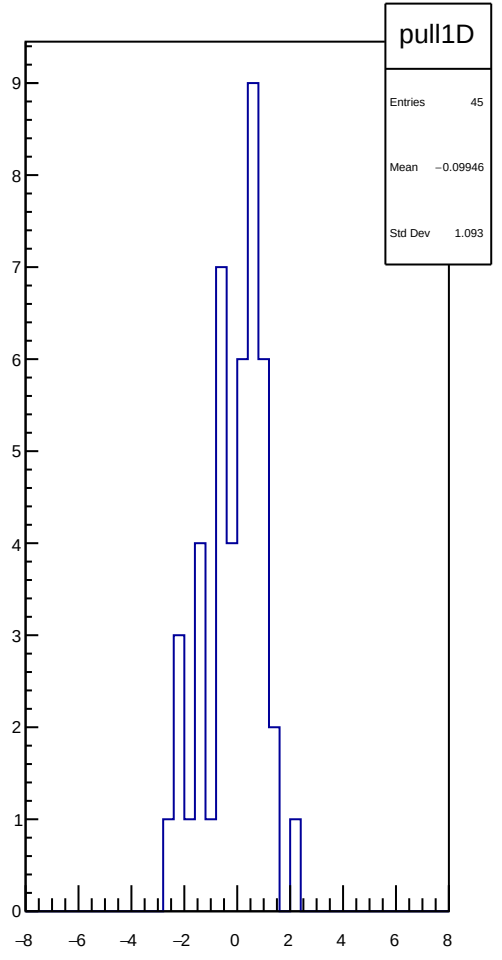

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.561e+04 / 44
p0 23.7 ± 0.0256
35
30
25
20
15
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

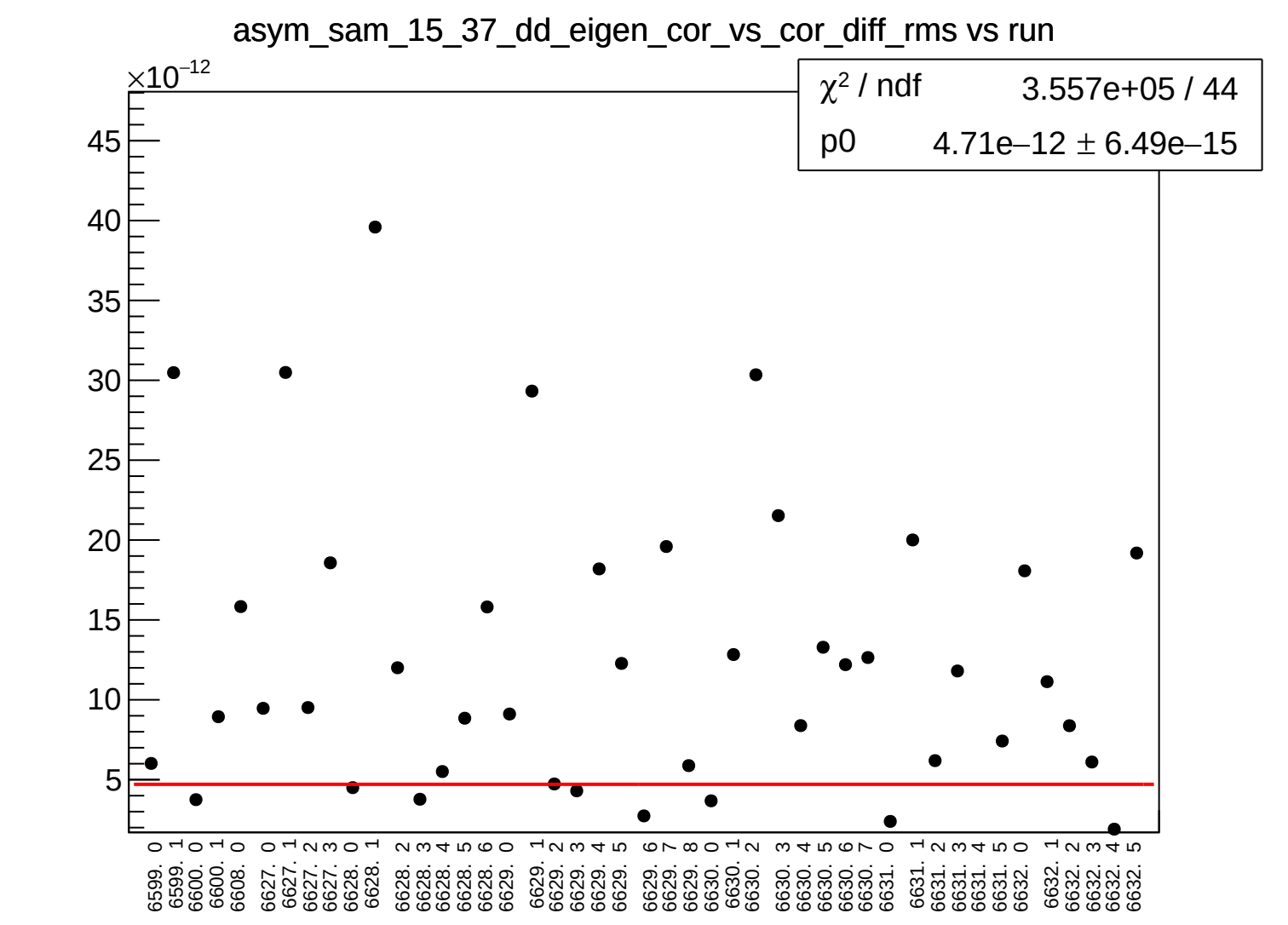

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.64 / 44
p0 0.06839 ± 0.03621
pull
Entries 45
Mean 47.76
Std Dev 0


pull1D
Entries 45
Mean 0.01651
Std Dev 1.071


asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.561e+04 / 44
p0 23.7 ± 0.0256
35
30
25
20
15
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 54.22 / 44
p0 −6.502e−15 ± 9.178e−15
pull
Entries 45
Mean 49.12
Std Dev 0


pull1D
Entries 45
Mean −0.09946
Std Dev 1.093


asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.557e+05 / 44
p0 4.71e−12 ± 6.49e−15
45
40
35
30
25
20
15
10
5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
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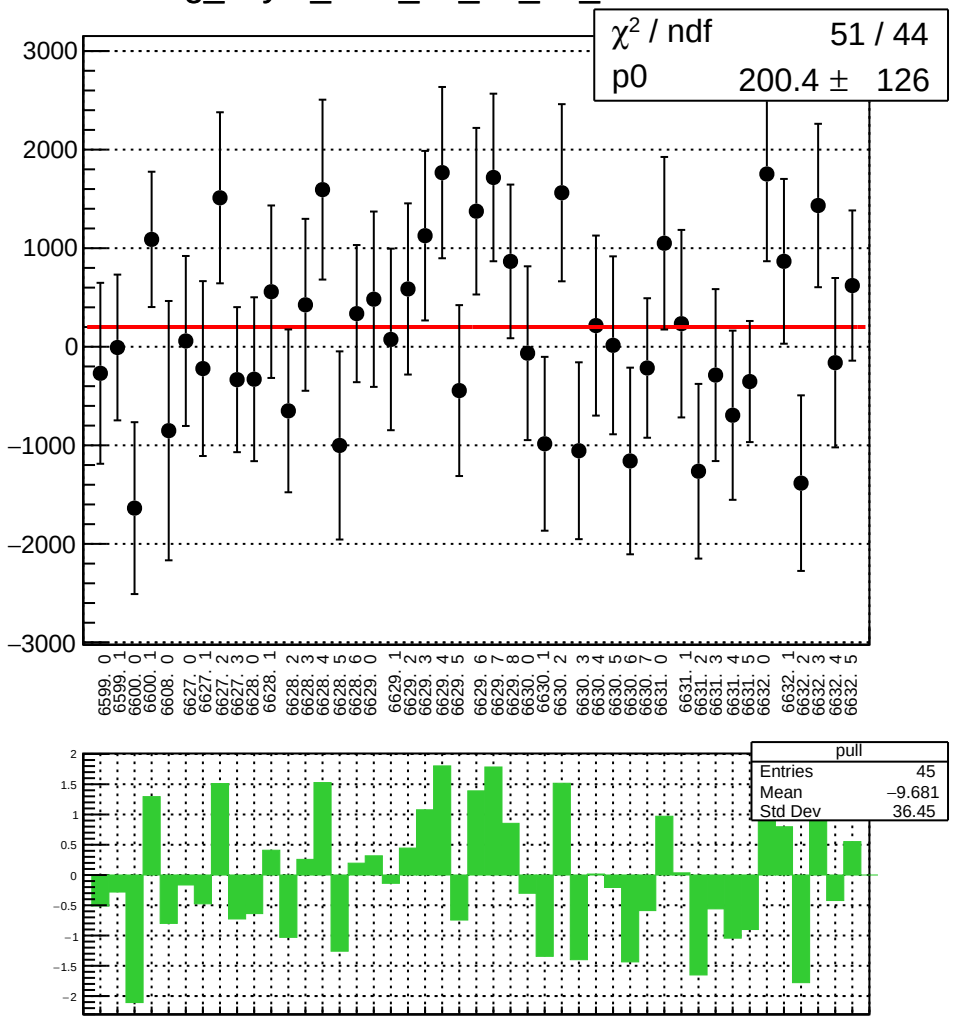
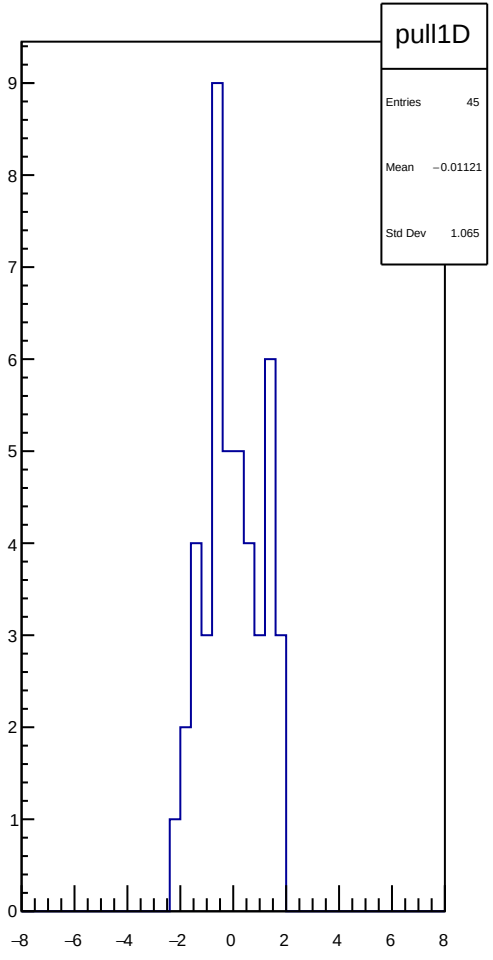
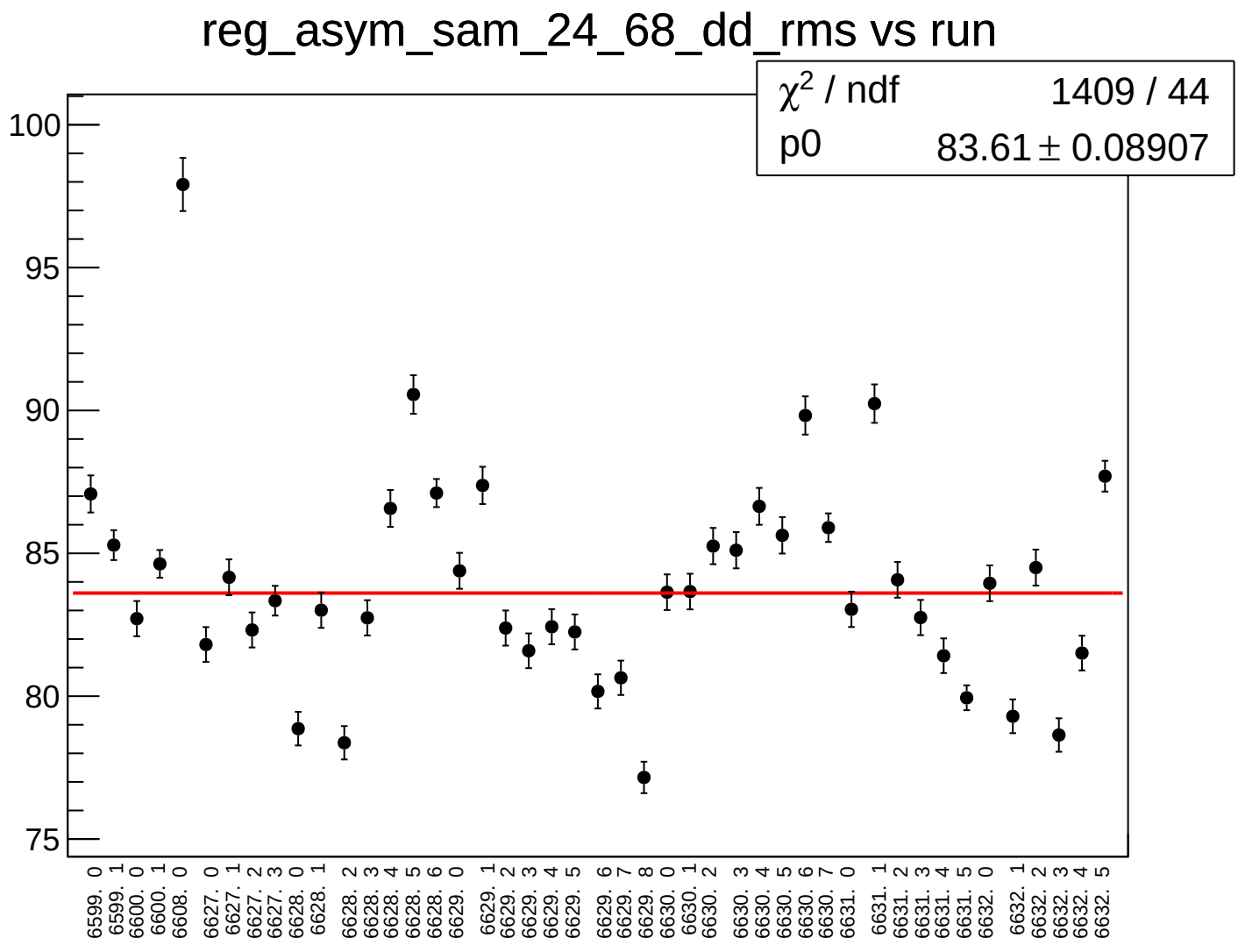
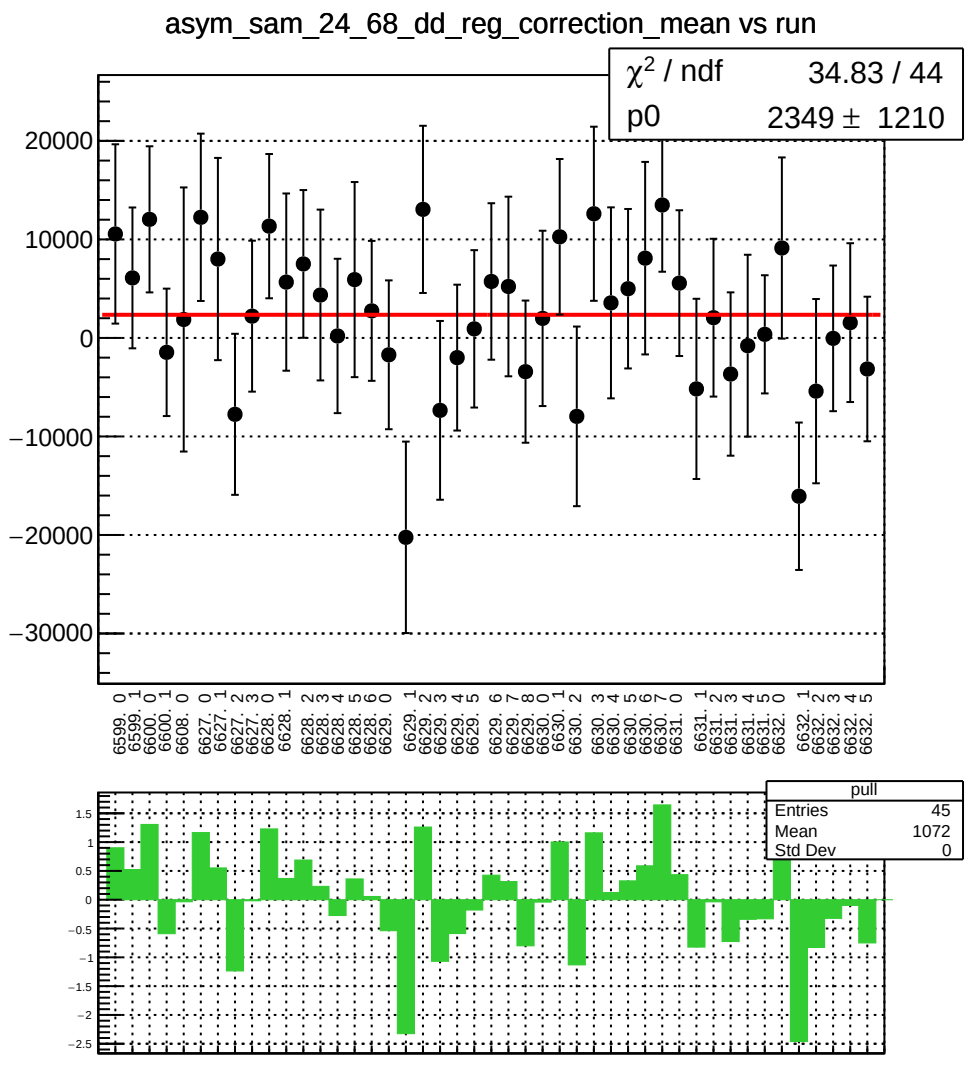
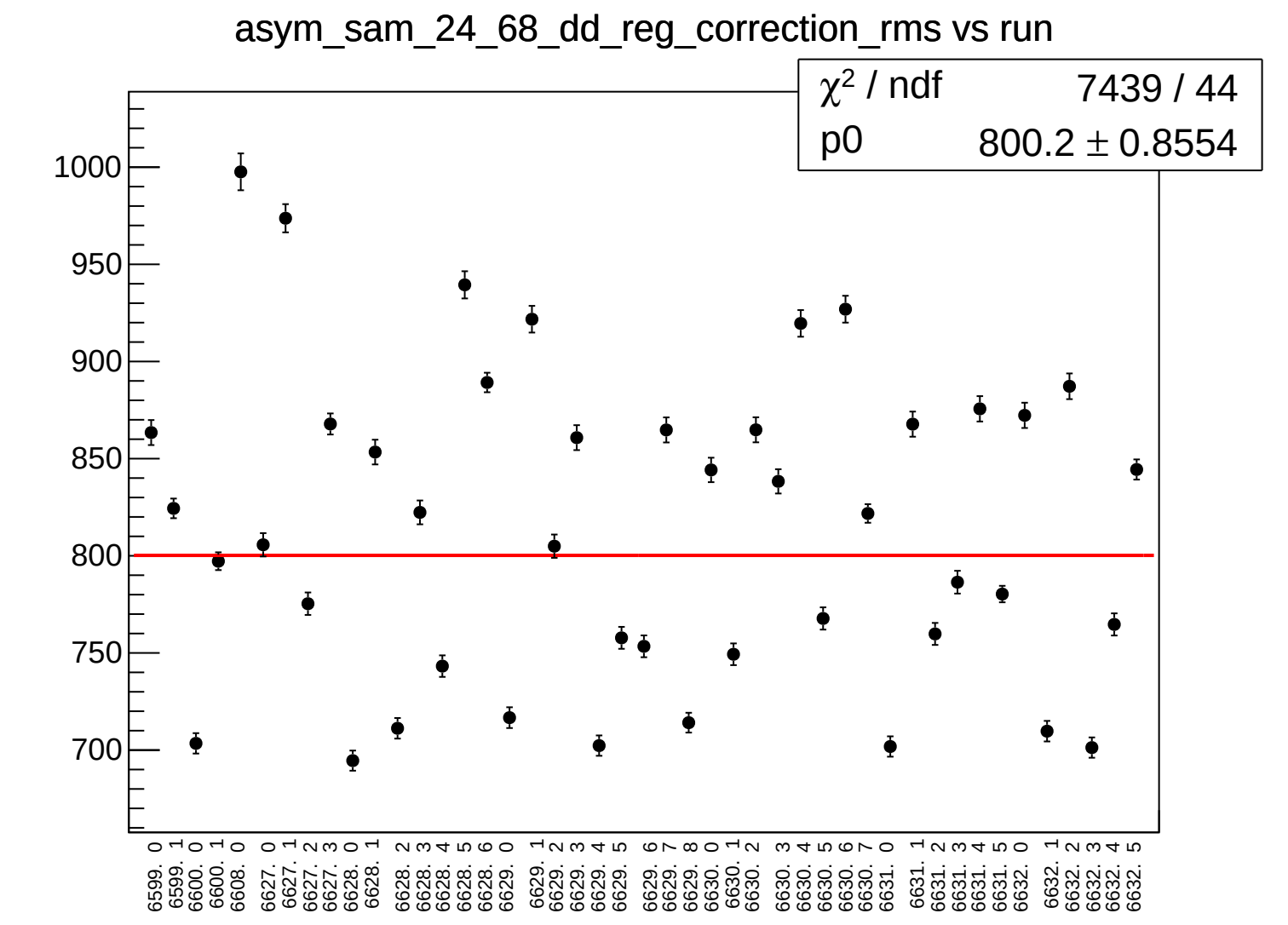
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 51 / 44
p0 200.4 ± 126
3000
2000
1000
0
−1000
−2000
−3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −9.681
Std Dev 36.45
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.01121
Std Dev 1.065
9
8
7
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 1409 / 44
p0 83.61 ± 0.08907
100
95
90
85
80
75
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 34.83 / 44
p0 2349 ± 1210
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 1072
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.002989
Std Dev 0.8798
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 7439 / 44
p0 800.2 ± 0.8554
1000
950
900
850
800
750
700
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 6
6629. 7
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6630. 0
6630. 1
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6630. 6
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6631. 0
6631. 1
6631. 2
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6631. 4
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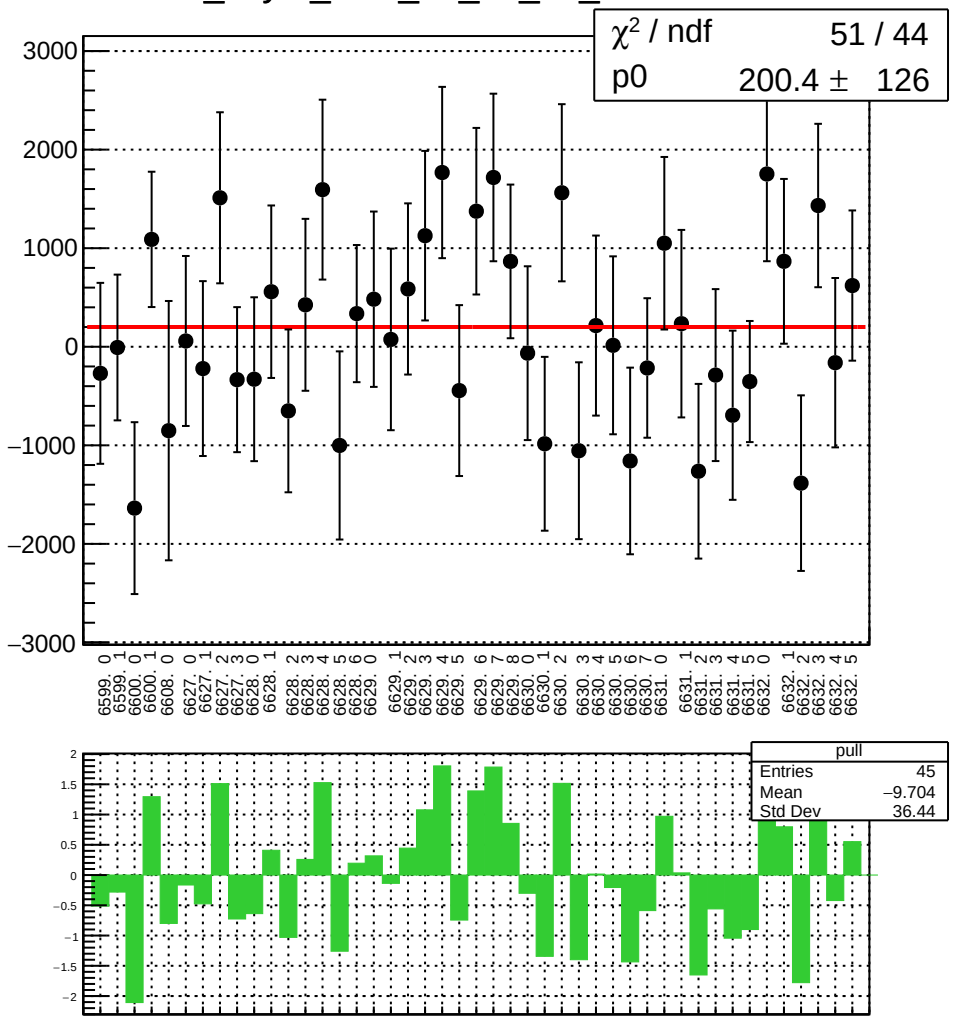
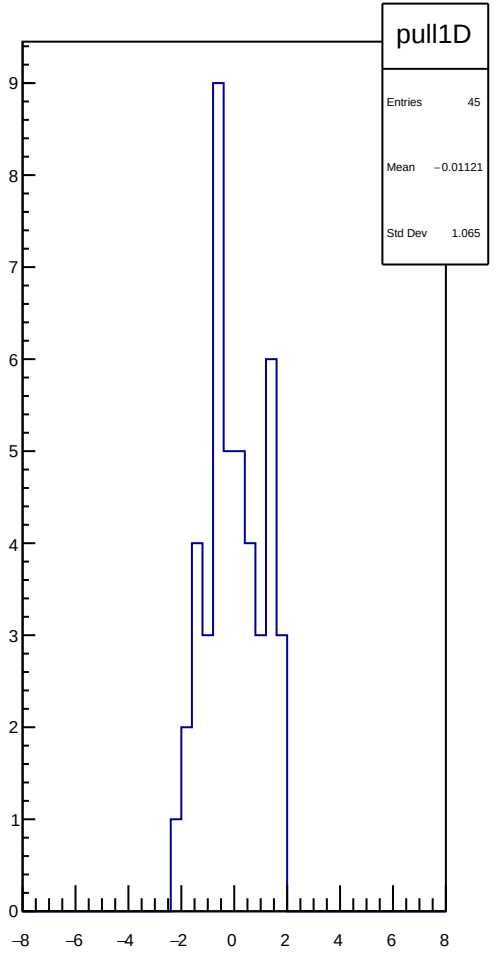
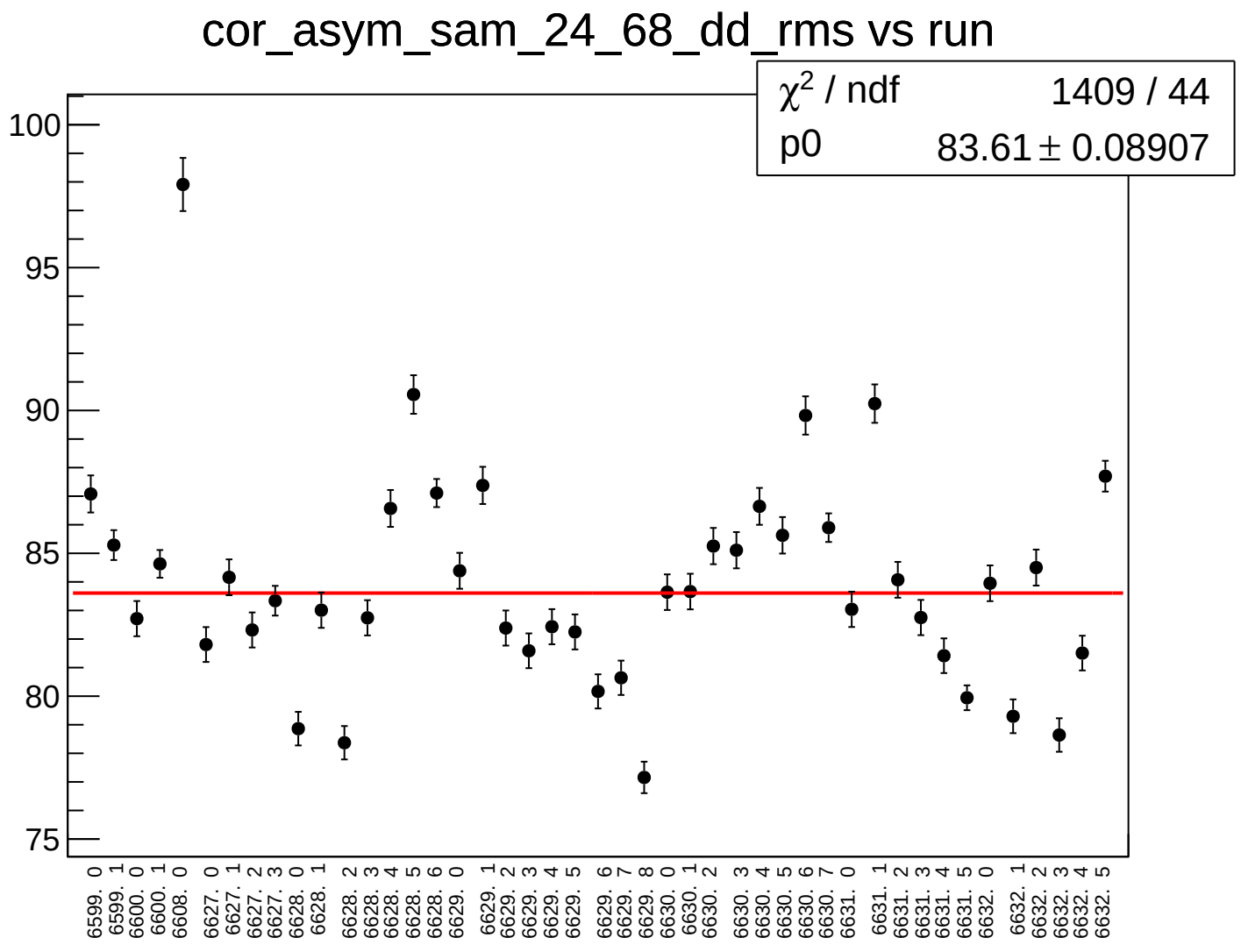
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 51 / 44
p0 200.4 ± 126
pull
Entries 45
Mean −9.704
Std Dev 36.44


pull1D
Entries 45
Mean −0.01121
Std Dev 1.065


cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1409 / 44
p0 83.61 ± 0.08907
100
95
90
85
80
75
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6628. 4
6628. 5
6628. 6
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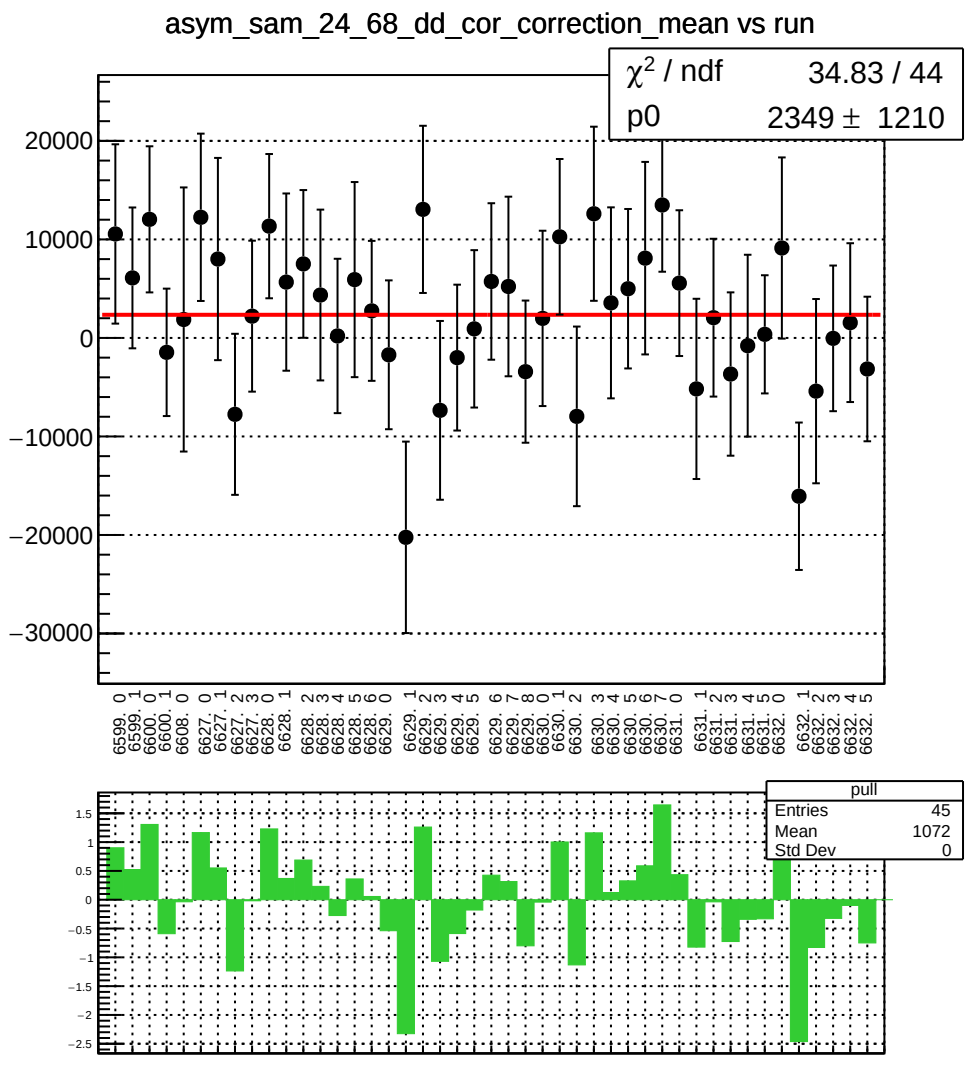
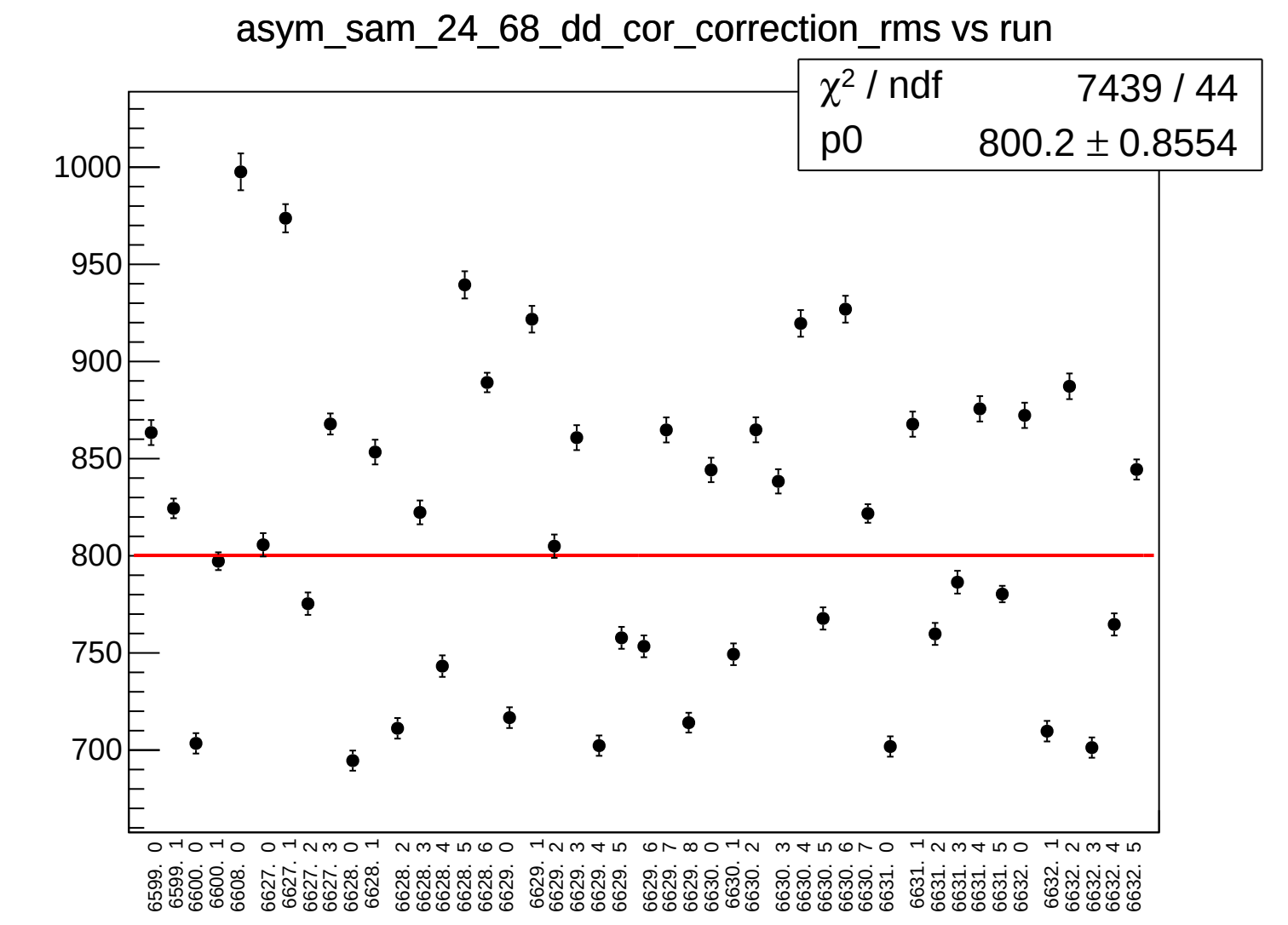
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 34.83 / 44
p0 2349 ± 1210
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 1072
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.00299
Std Dev 0.8798
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 7439 / 44
p0 800.2 ± 0.8554
1000
950
900
850
800
750
700
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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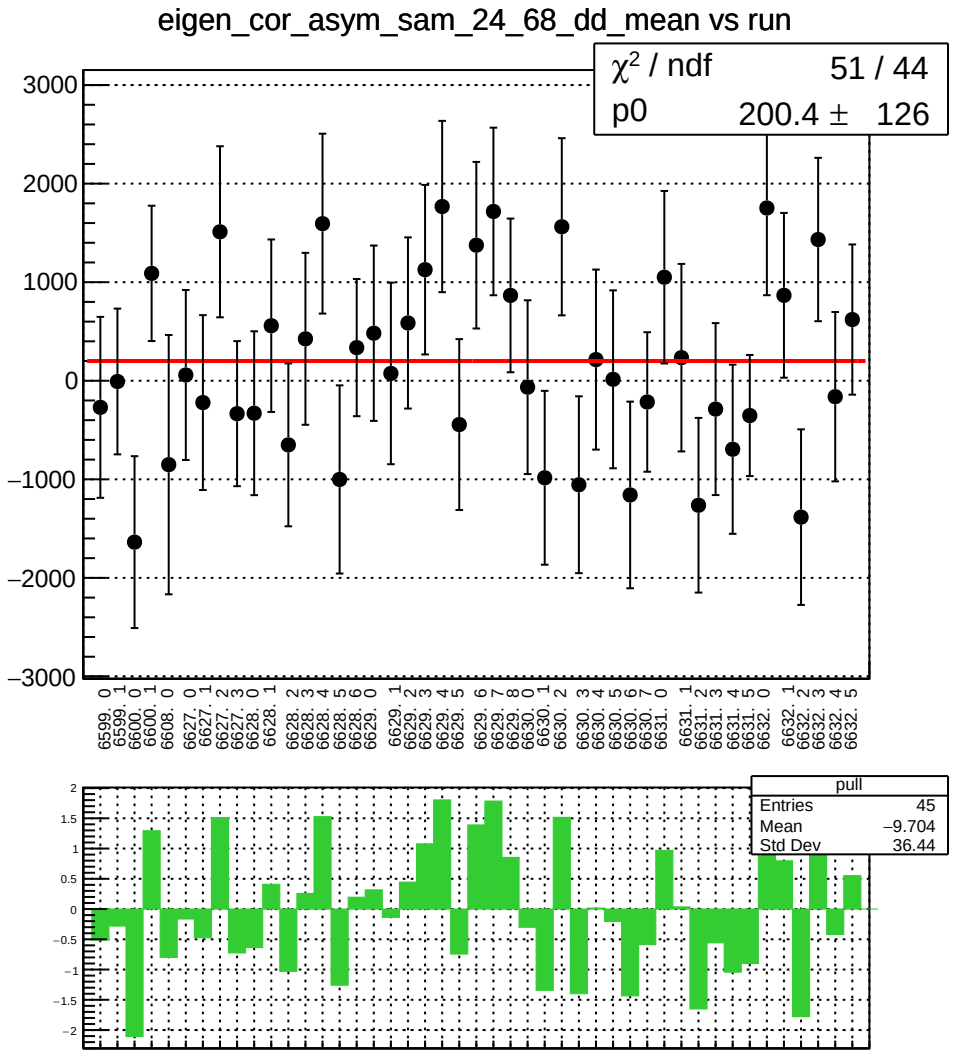
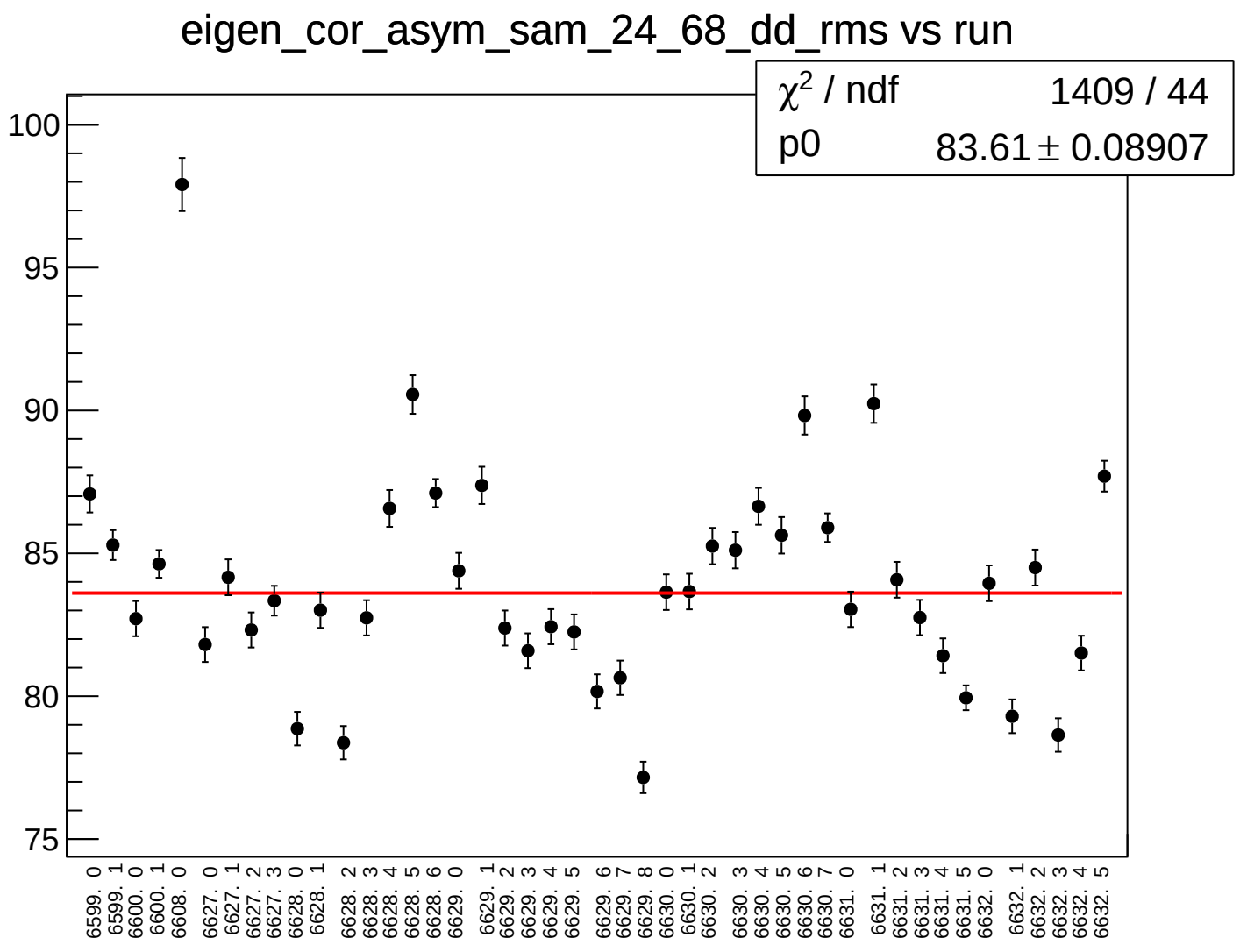
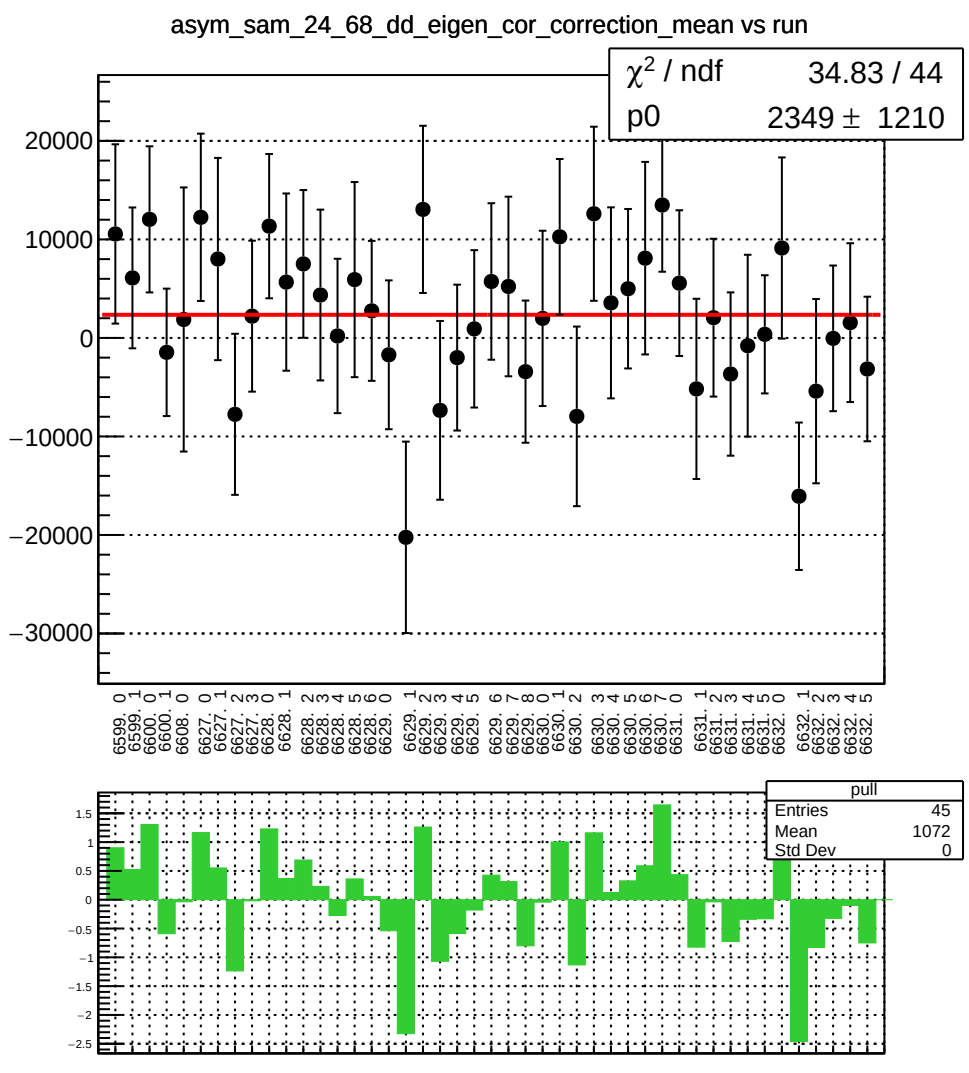
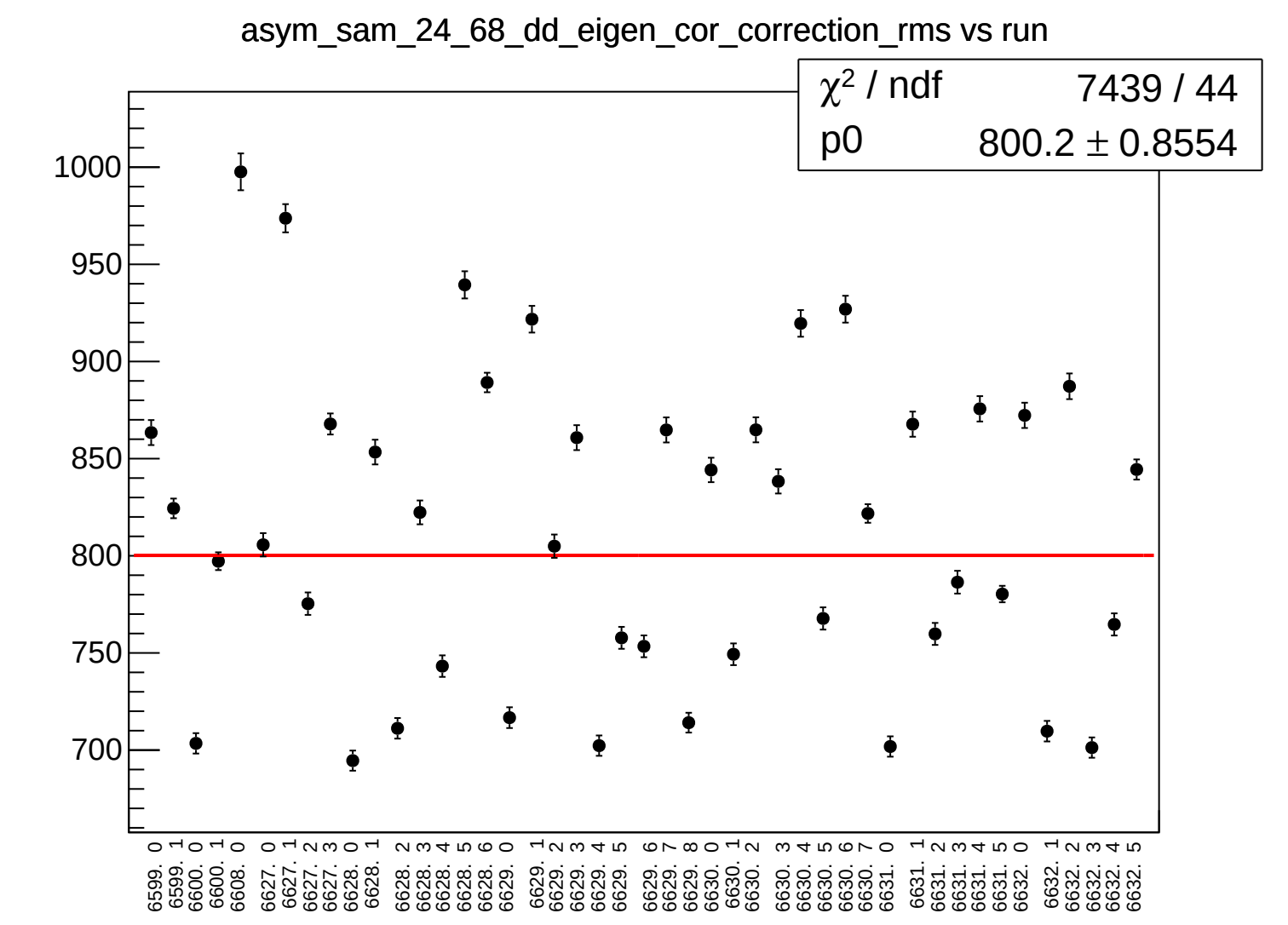
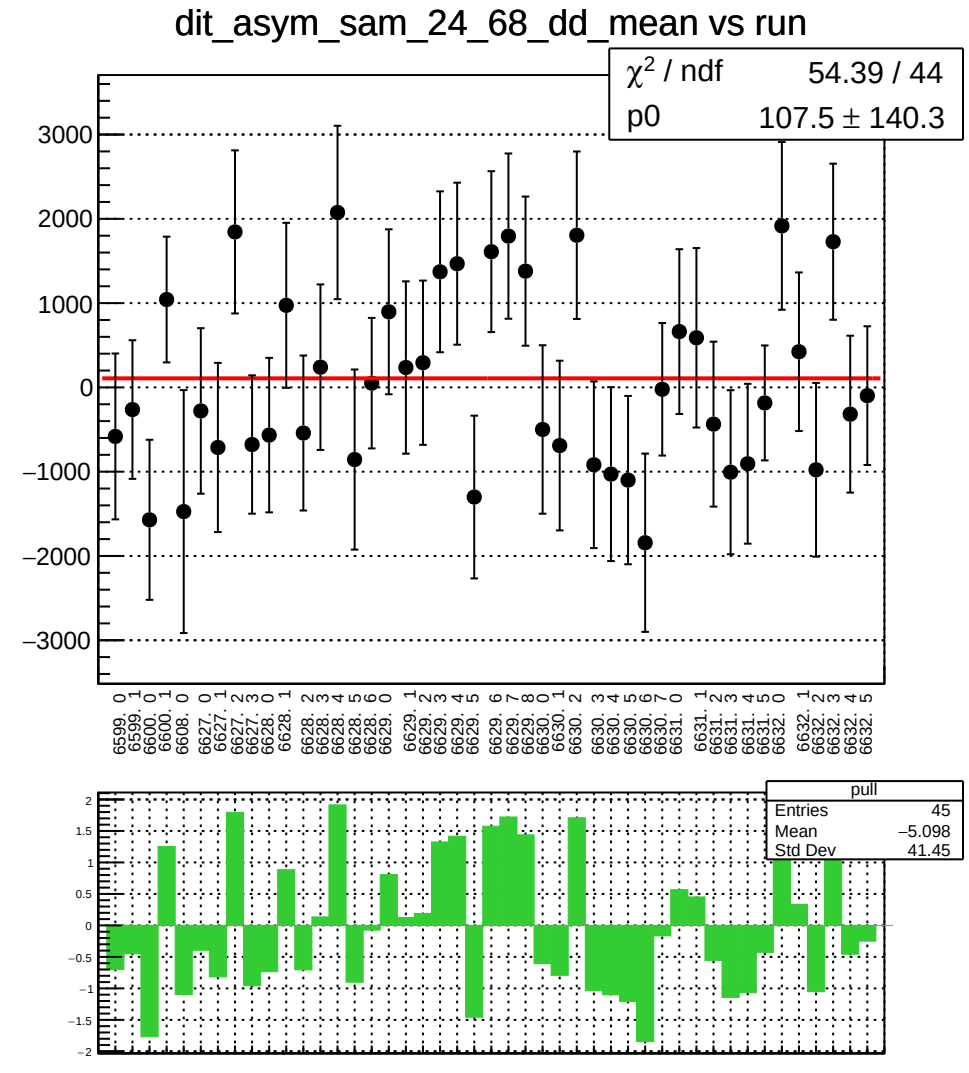
6632. 2
6632. 3
6632. 4
6632. 5

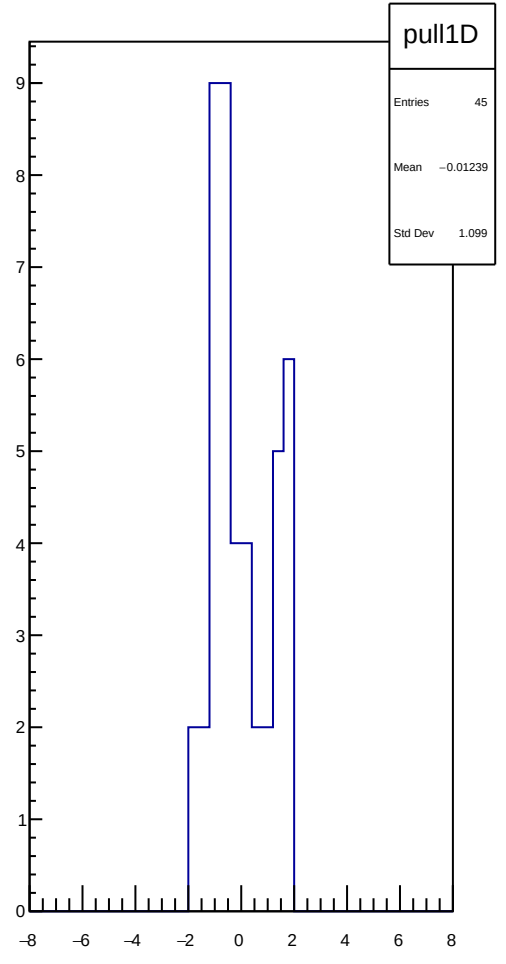

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 51 / 44
p0 200.4 ± 126
3000
2000
1000
0
−1000
−2000
−3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −9.704
Std Dev 36.44
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01121
Std Dev 1.065
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

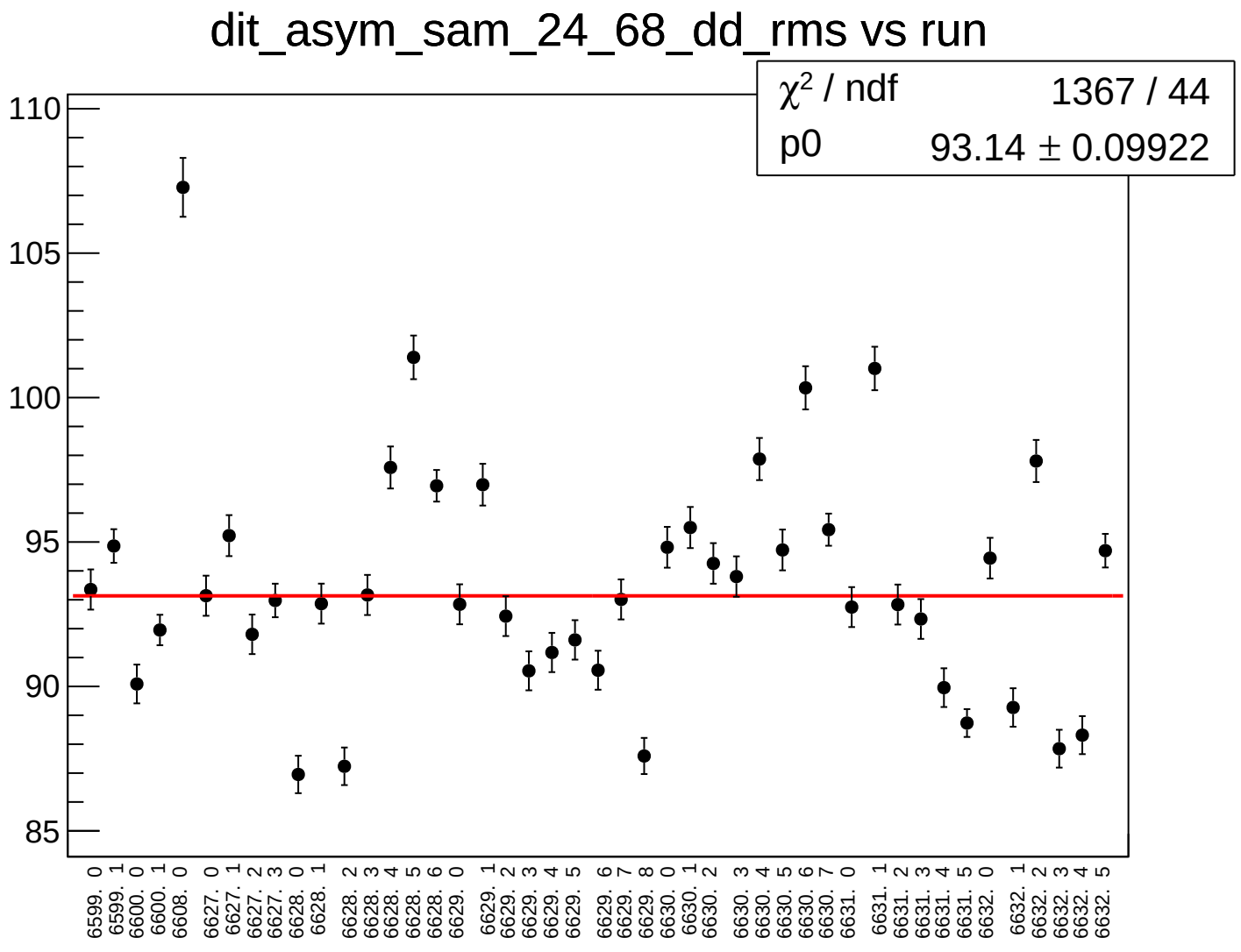

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1409 / 44
p0 83.61 ± 0.08907
100
95
90
85
80
75
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

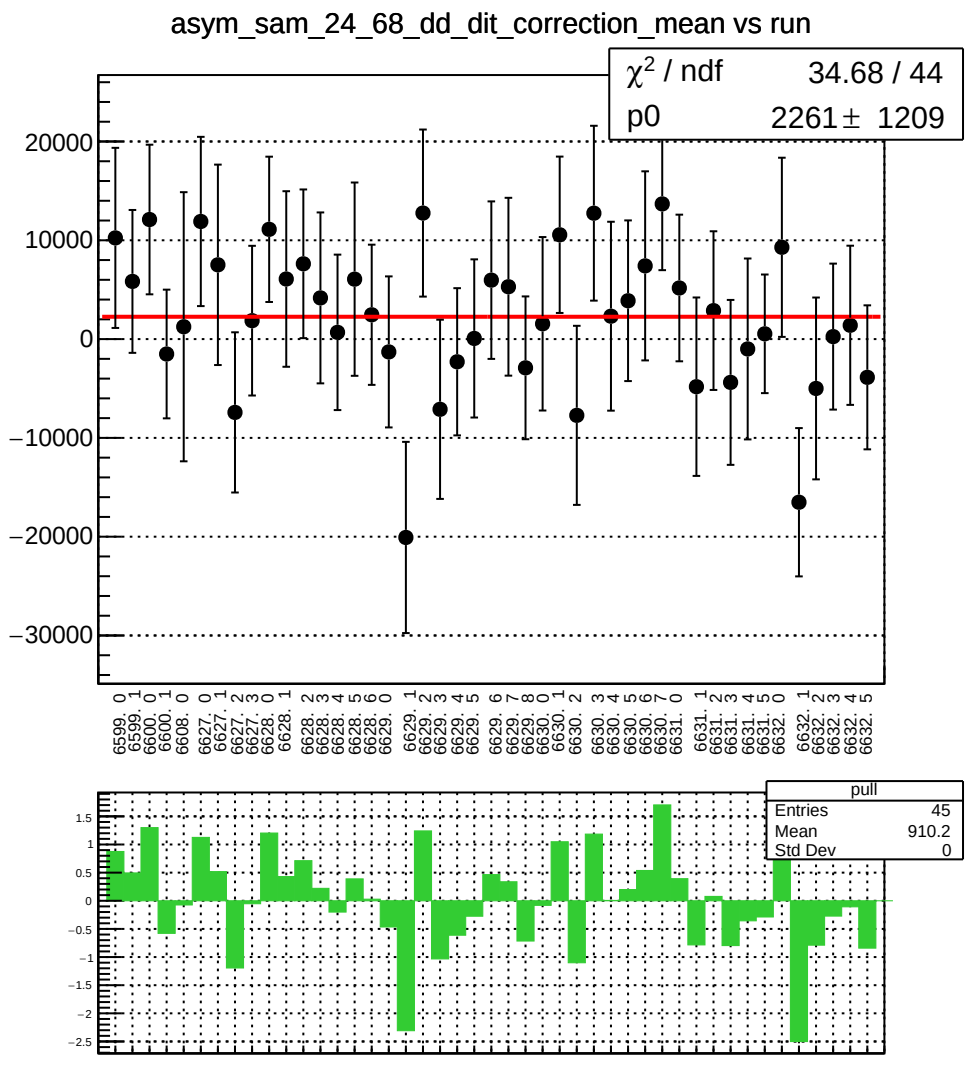

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ² / ndf 34.83 / 44
p0 2349 ± 1210
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 1072
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.00299
Std Dev 0.8798
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

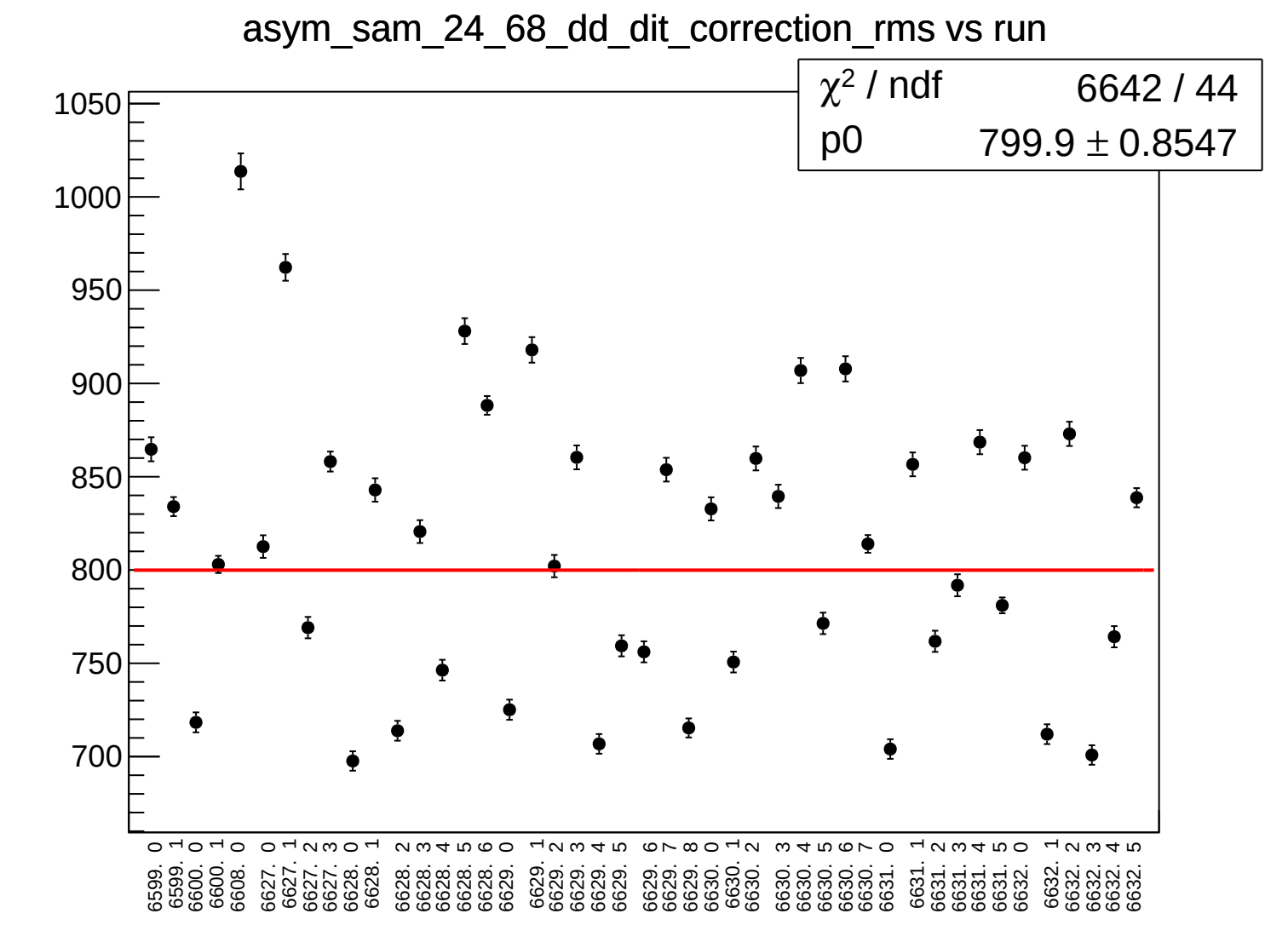

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 7439 / 44
p0 800.2 ± 0.8554
1000
950
900
850
800
750
700
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

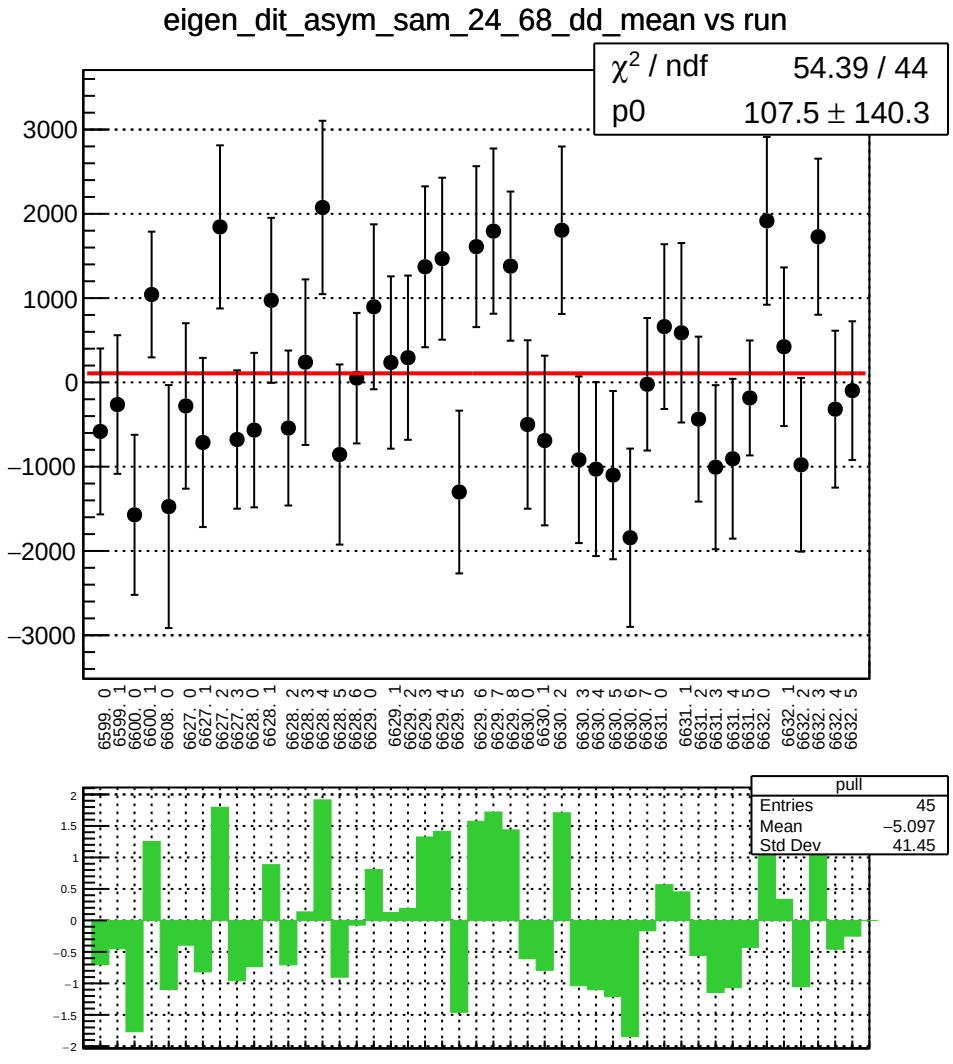

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 54.39 / 44
p0 107.5 ± 140.3
3000
2000
1000
0
−1000
−2000
−3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −5.098
Std Dev 41.45
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

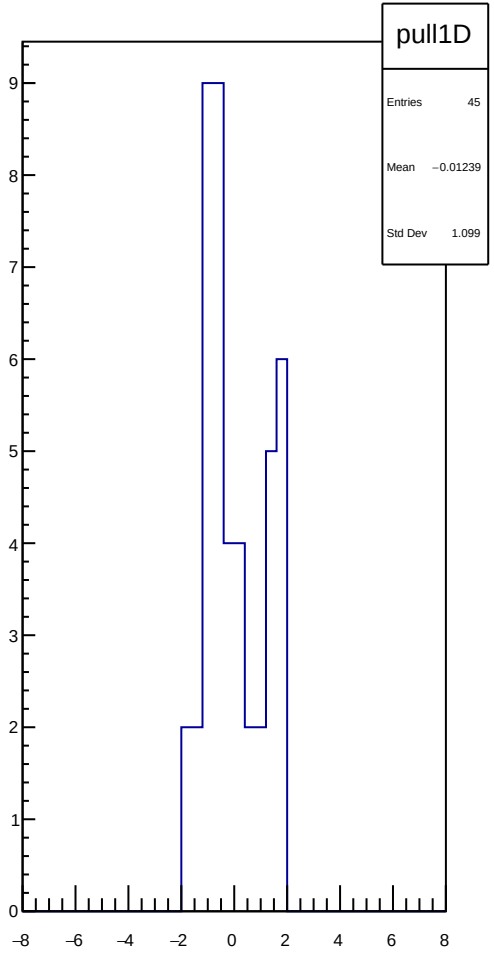

pull1D
Entries 45
Mean −0.01239
Std Dev 1.099
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

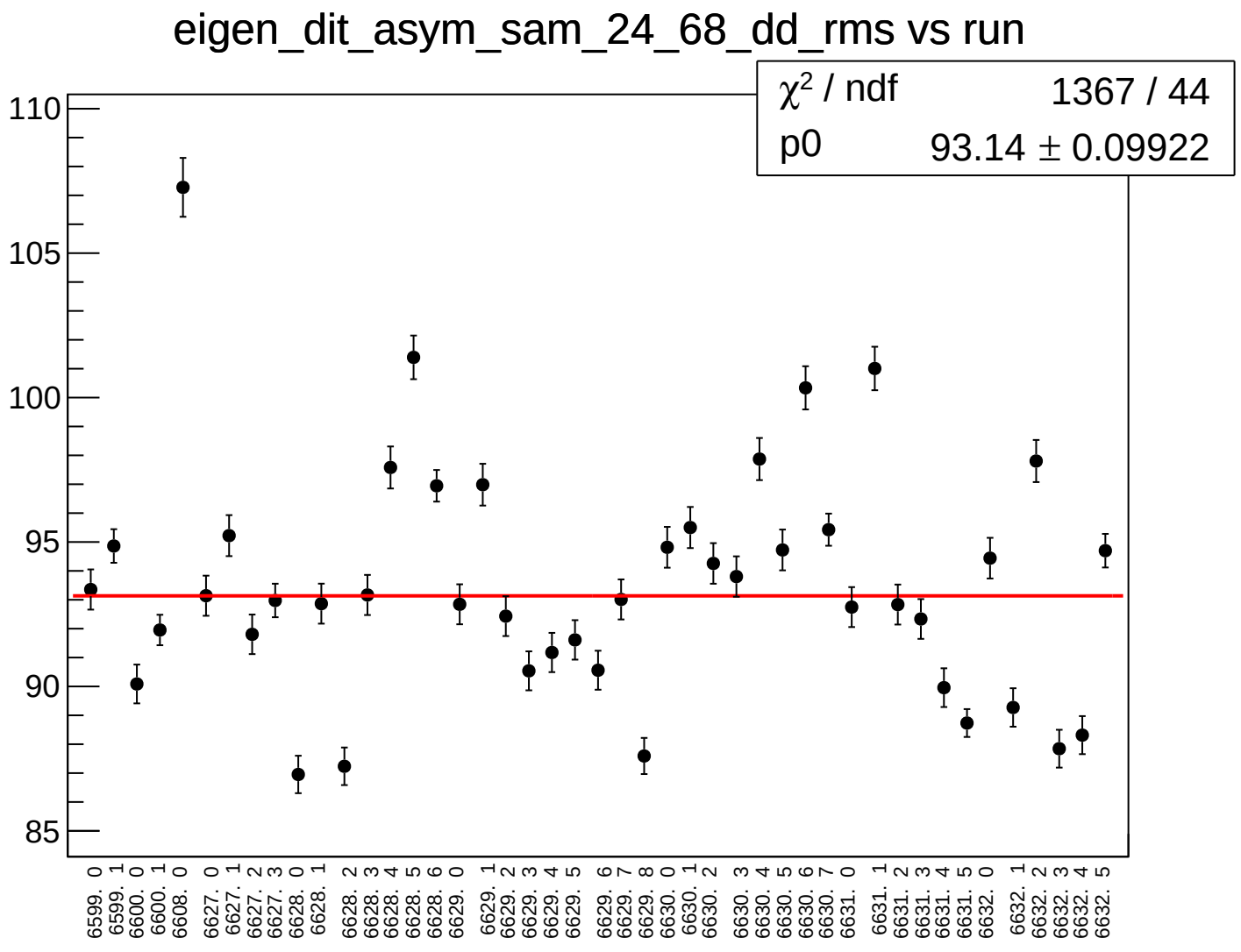

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1367 / 44
p0 93.14 ± 0.09922
110
105
100
95
90
85
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 34.68 / 44
p0 2261 ± 1209
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 910.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.003523
Std Dev 0.8778
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 6642 / 44
p0 799.9 ± 0.8547
1050
1000
950
900
850
800
750
700
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_sam_24_68_dd_mean vs run
$\chi^2$ / ndf 54.39 / 44
p0 107.5 ± 140.3
3000
2000
1000
0
−1000
−2000
−3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −5.097
Std Dev 41.45
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.01239
Std Dev 1.099
9
8
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 1367 / 44
p0 93.14 ± 0.09922
110
105
100
95
90
85
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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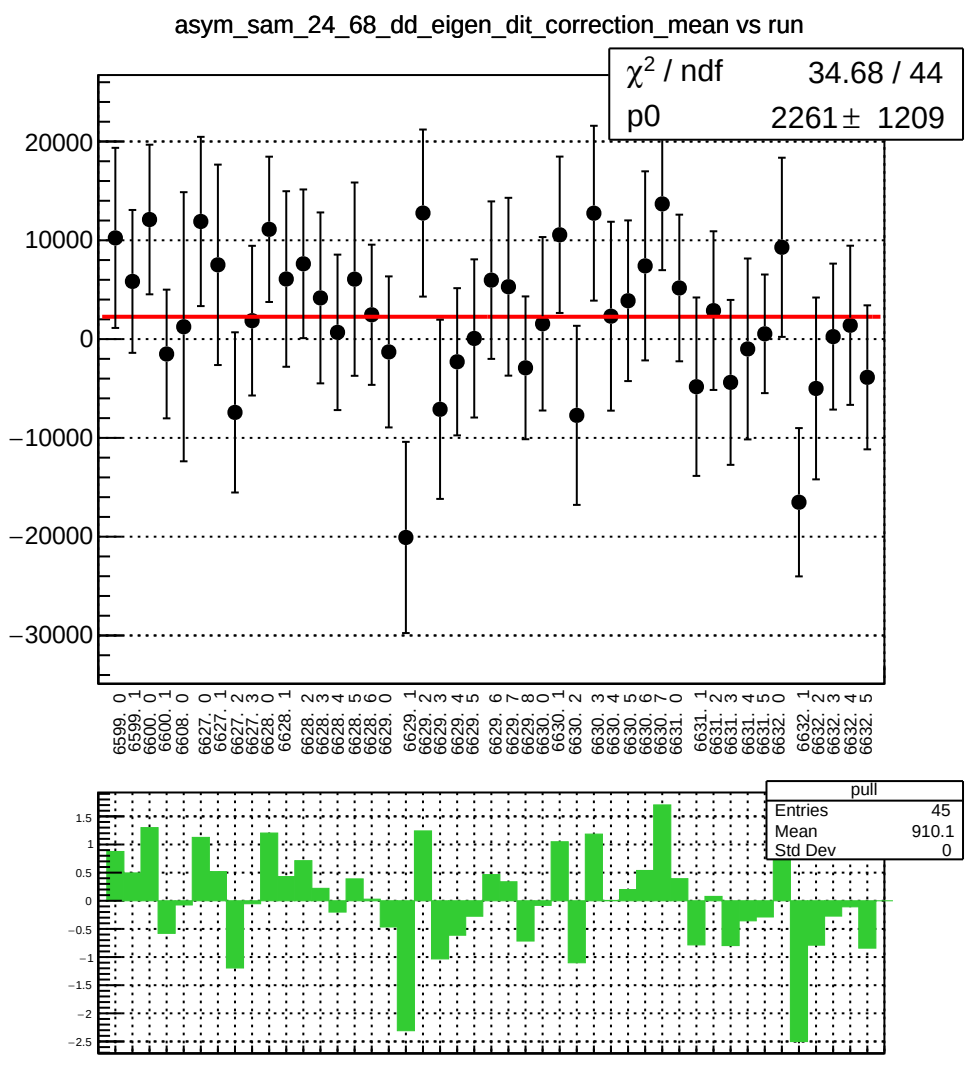
6632. 4
6632. 5


asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 34.68 / 44
p0 2261 ± 1209
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
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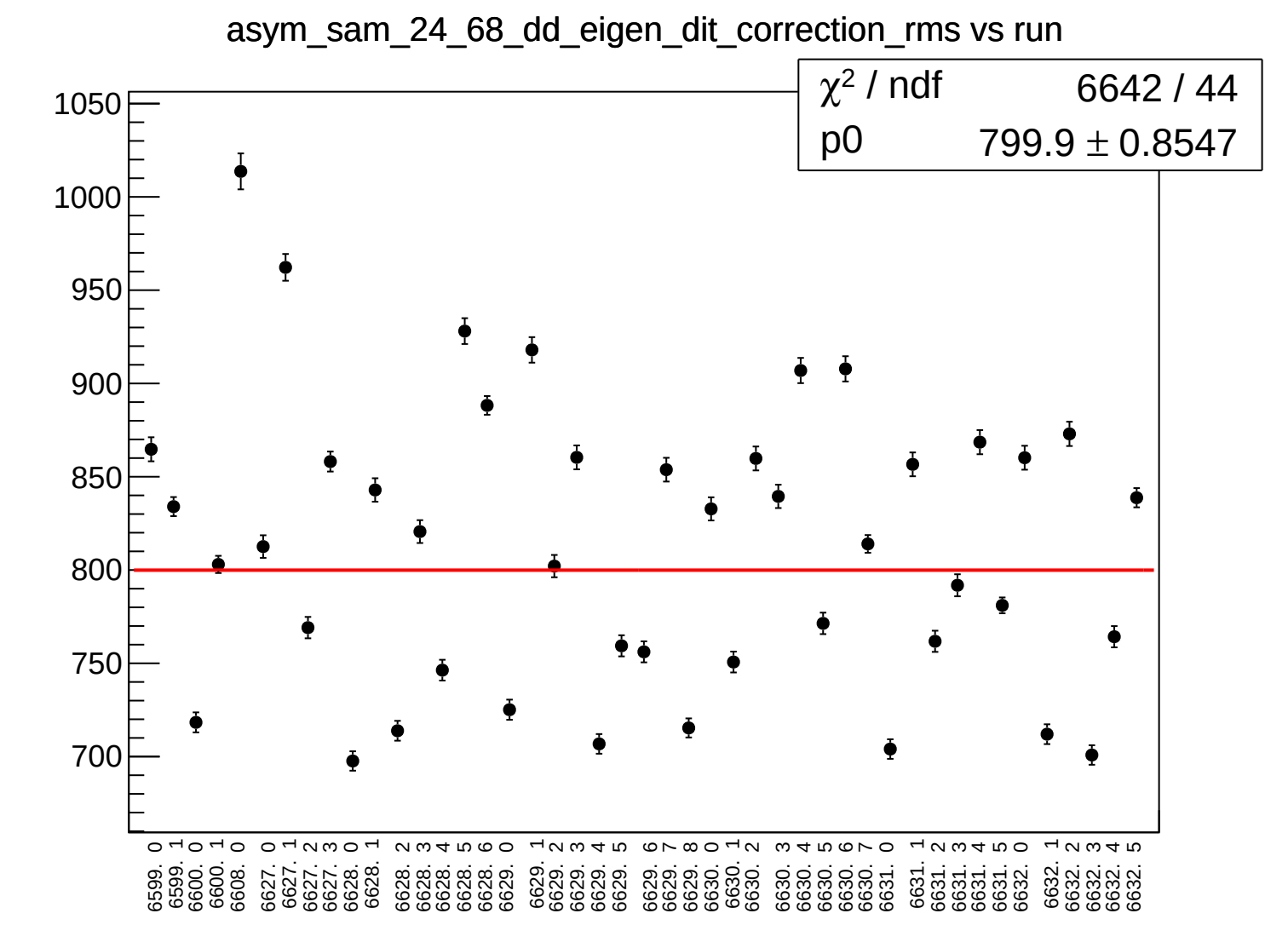
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 910.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.003523
Std Dev 0.8778
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 6642 / 44
p0 799.9 ± 0.8547
1050
1000
950
900
850
800
750
700
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
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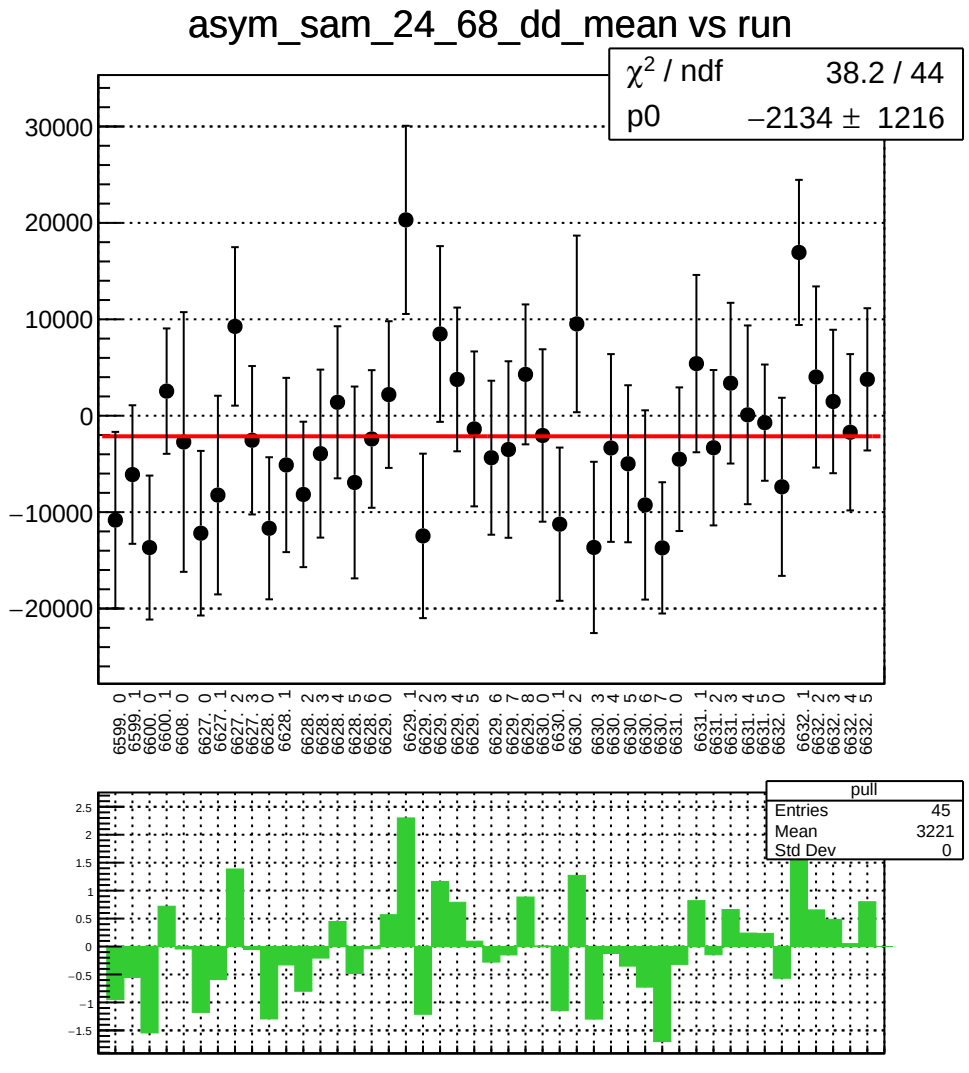
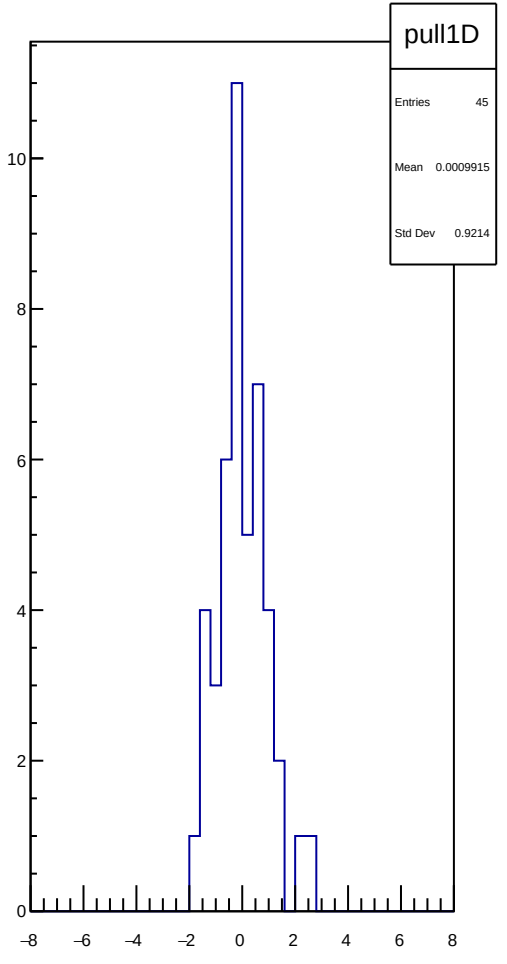
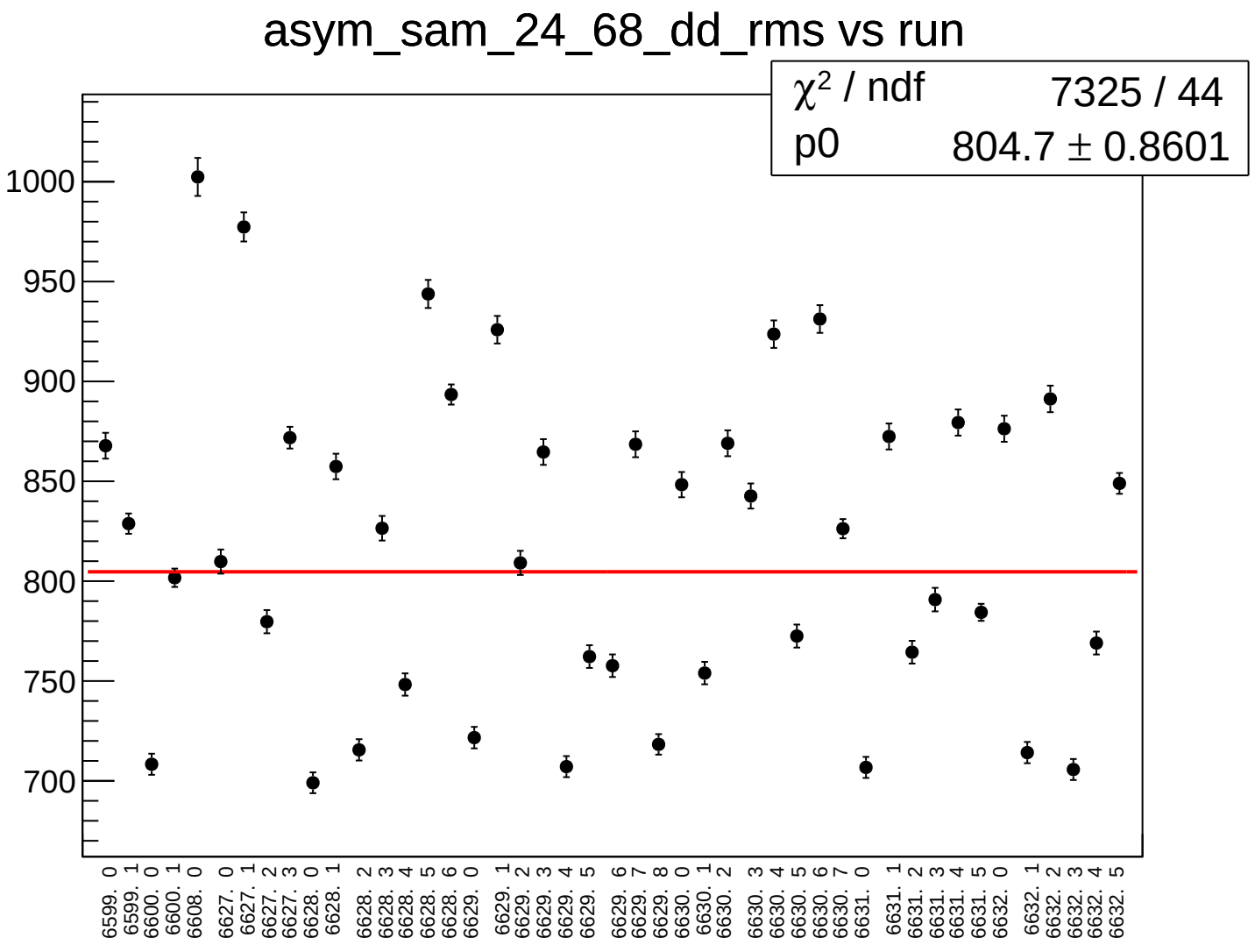
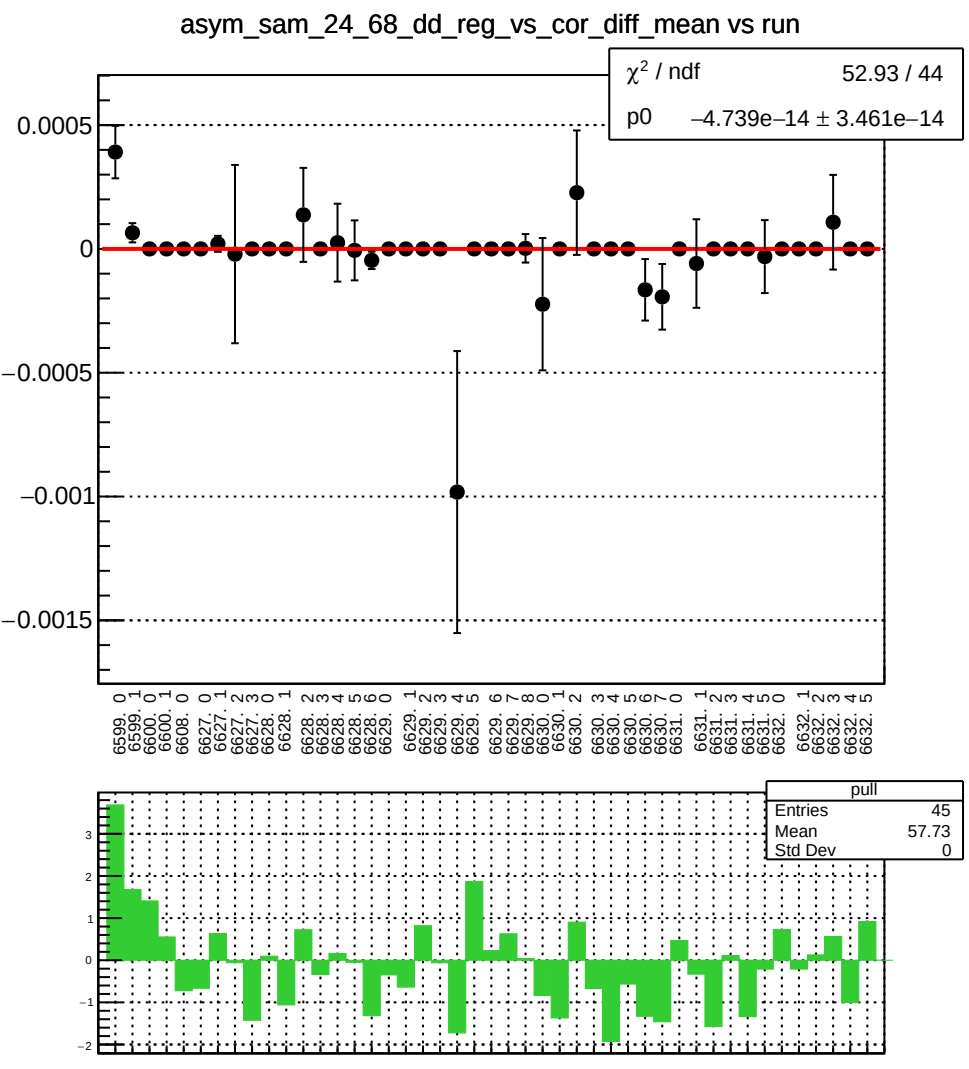
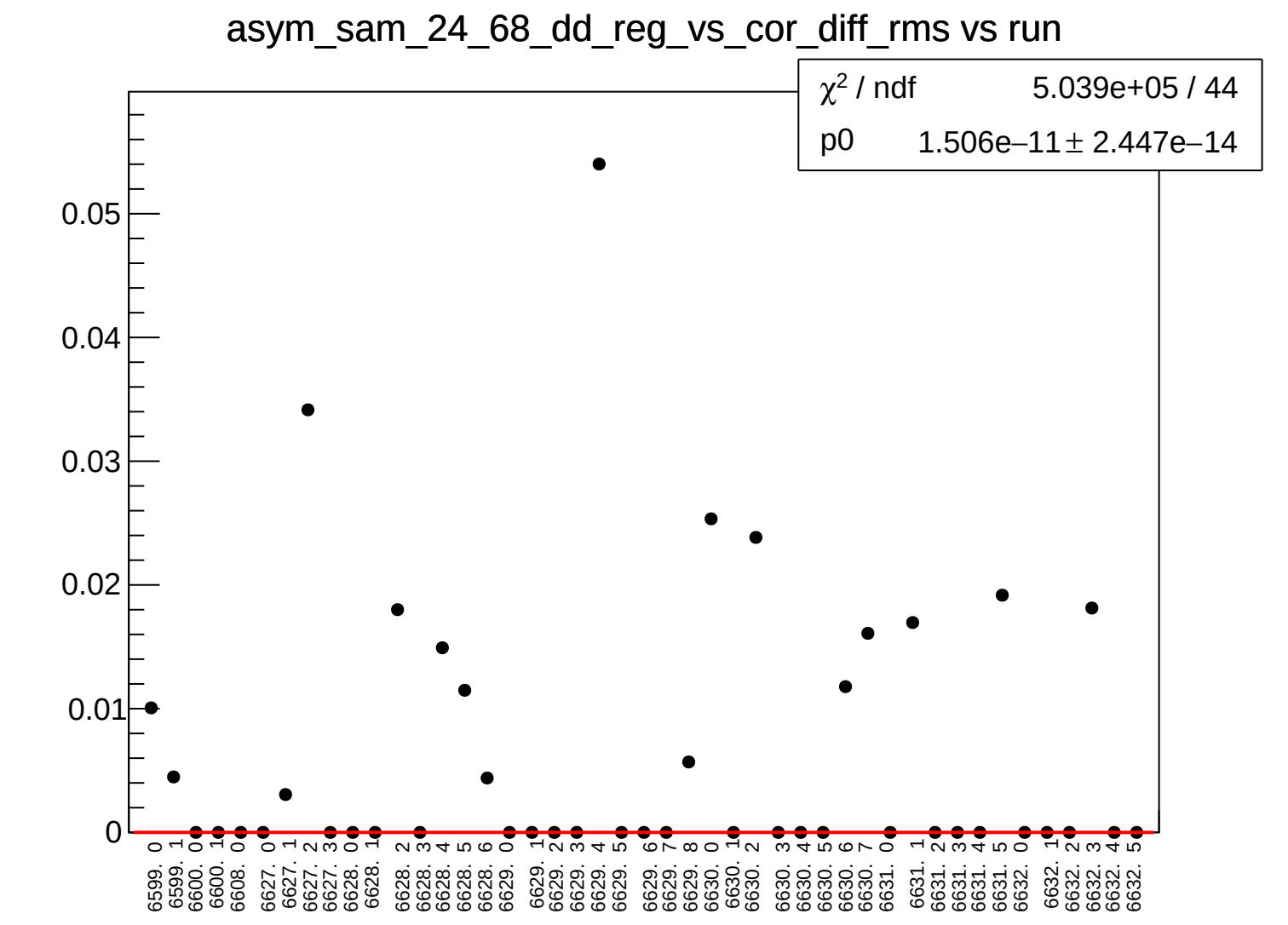
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

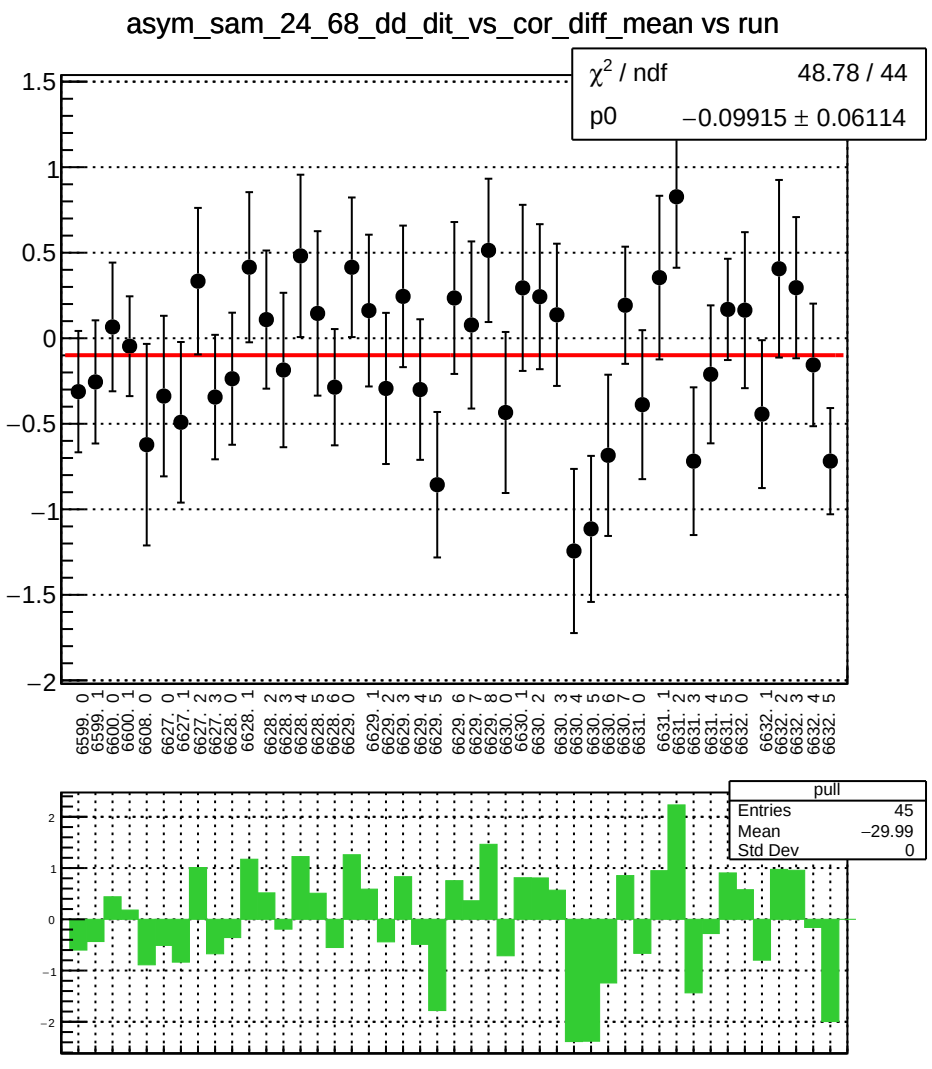

asym_sam_24_68_dd_mean vs run
χ² / ndf 38.2 / 44
p0 −2134 ± 1216
30000
20000
10000
0
−10000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 3221
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

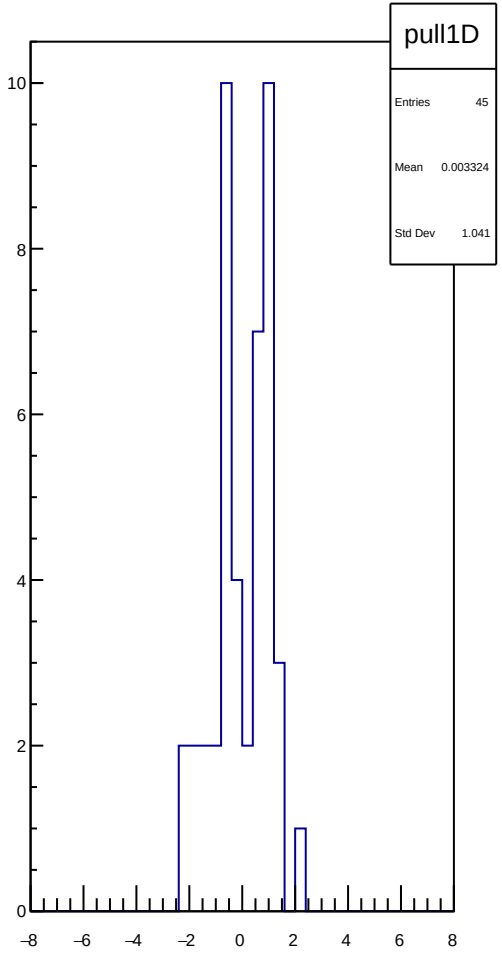

pull1D
Entries 45
Mean 0.0009915
Std Dev 0.9214
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

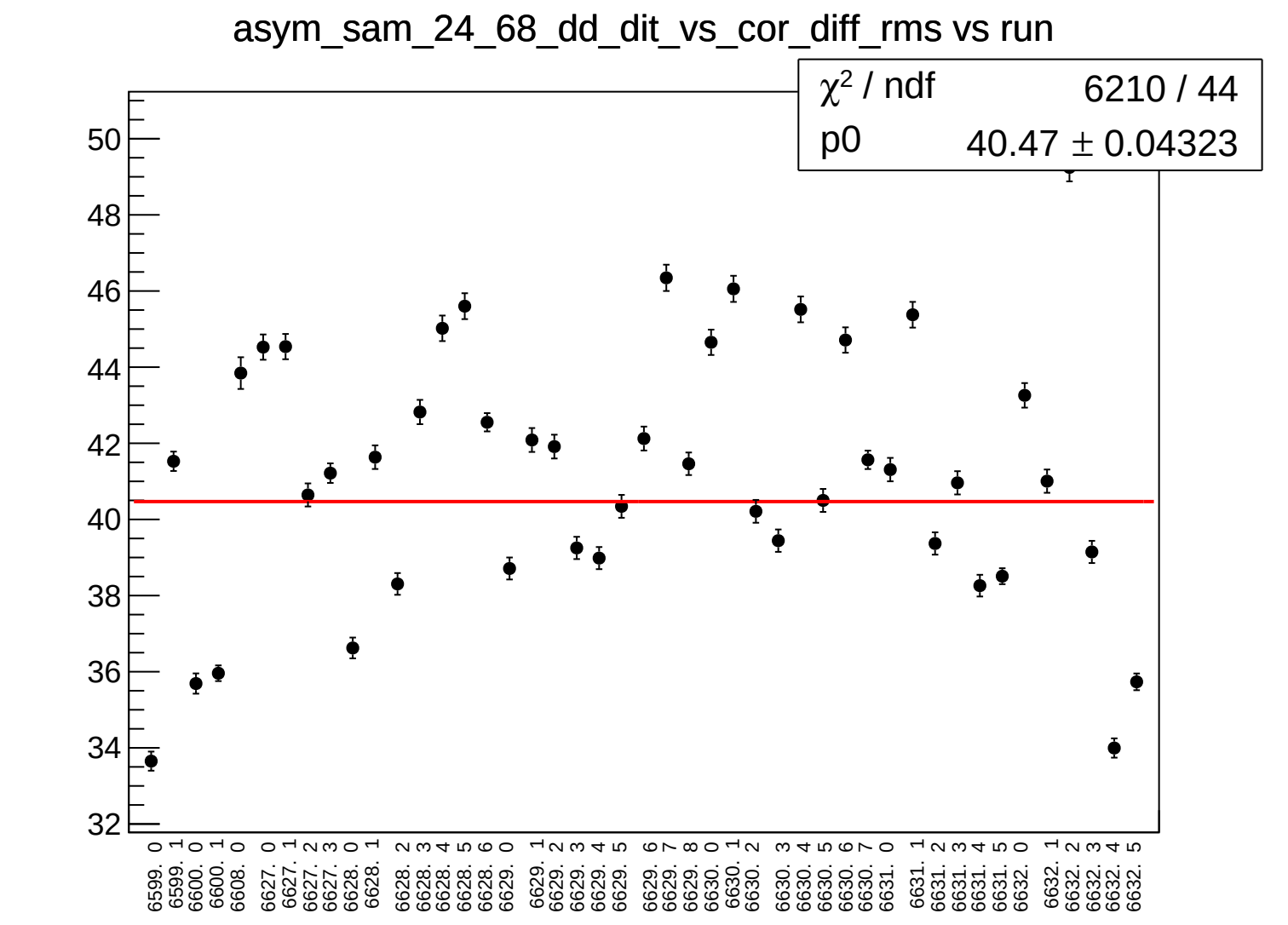

asym_sam_24_68_dd_rms vs run
χ² / ndf 7325 / 44
p0 804.7 ± 0.8601
1000
950
900
850
800
750
700
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

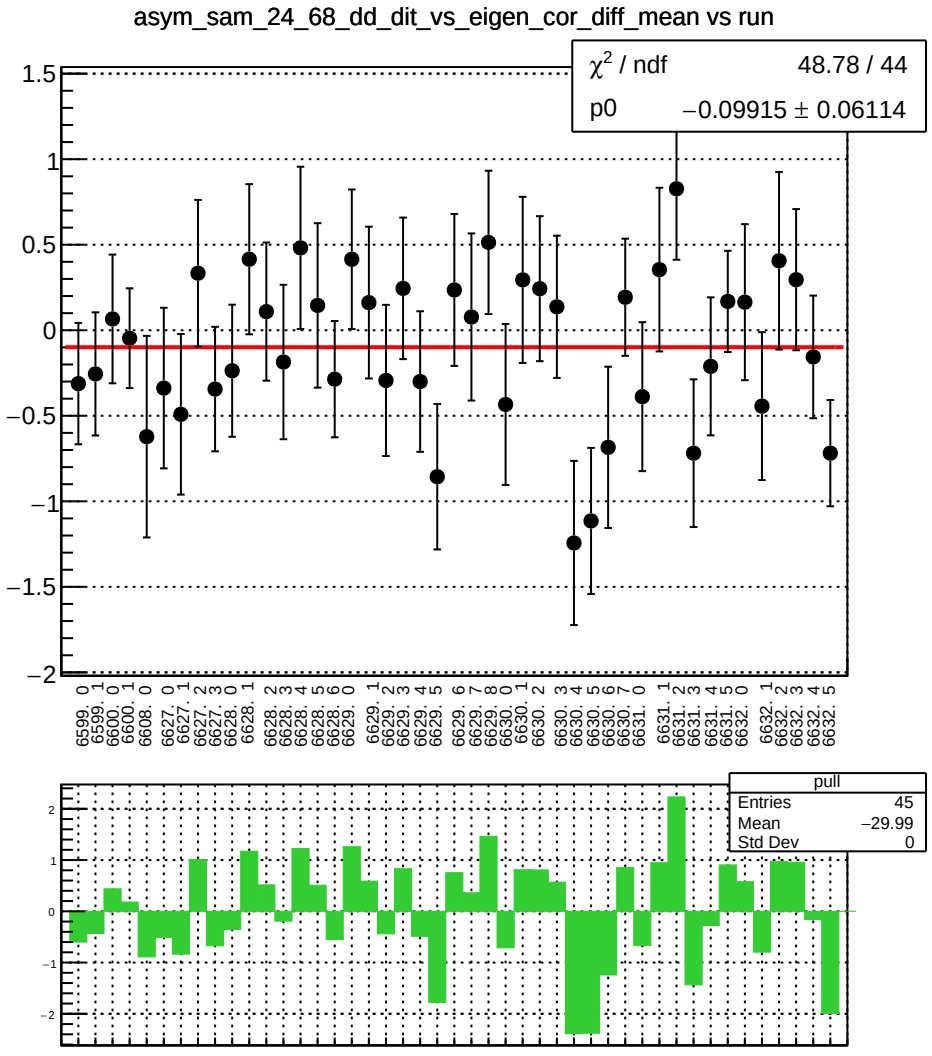

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 52.93 / 44
p0 −4.739e−14 ± 3.461e−14
0.0005
0
−0.0005
−0.001
−0.0015
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 57.73
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.1086
Std Dev 1.079
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

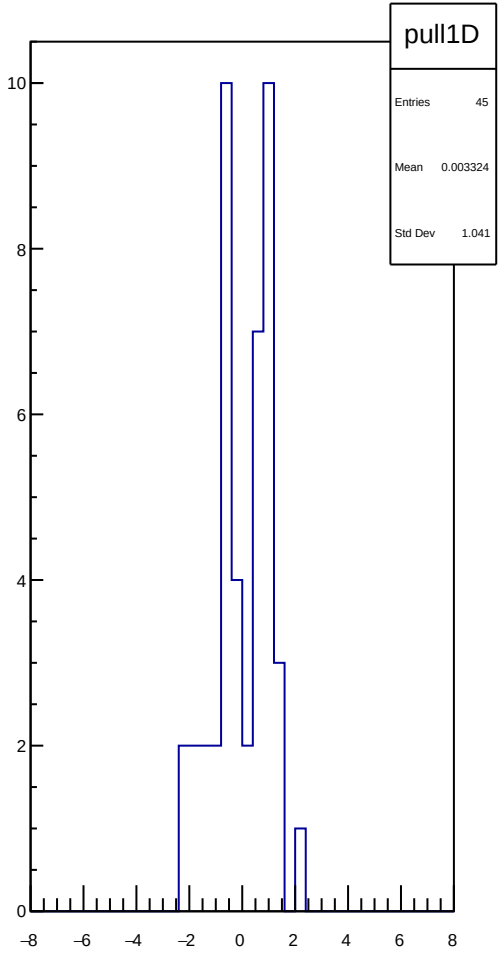

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.039e+05 / 44
p0 1.506e−11 ± 2.447e−14
0.05
0.04
0.03
0.02
0.01
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

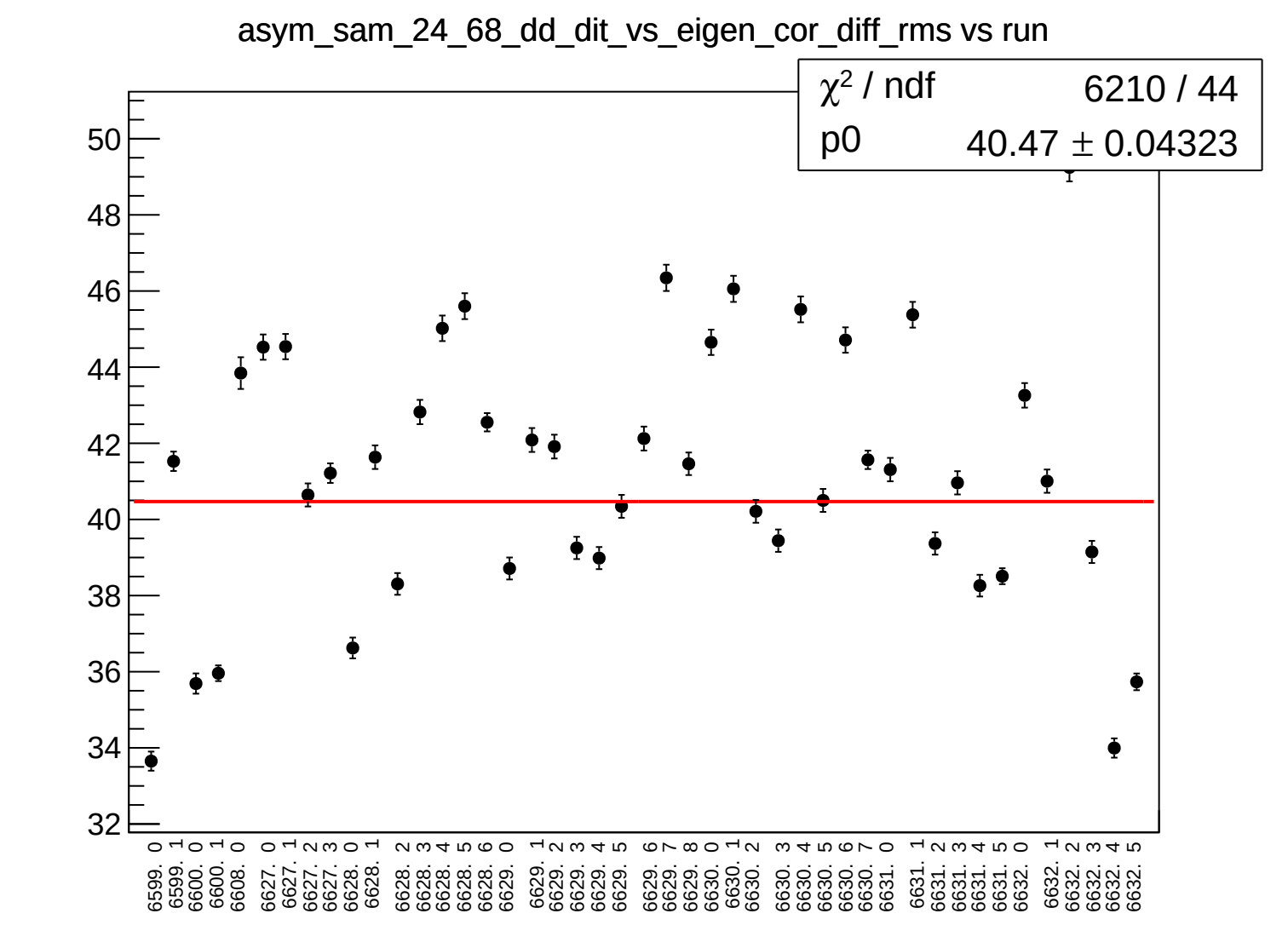

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 48.78 / 44
p0 −0.09915 ± 0.06114
pull
Entries 45
Mean −29.99
Std Dev 0

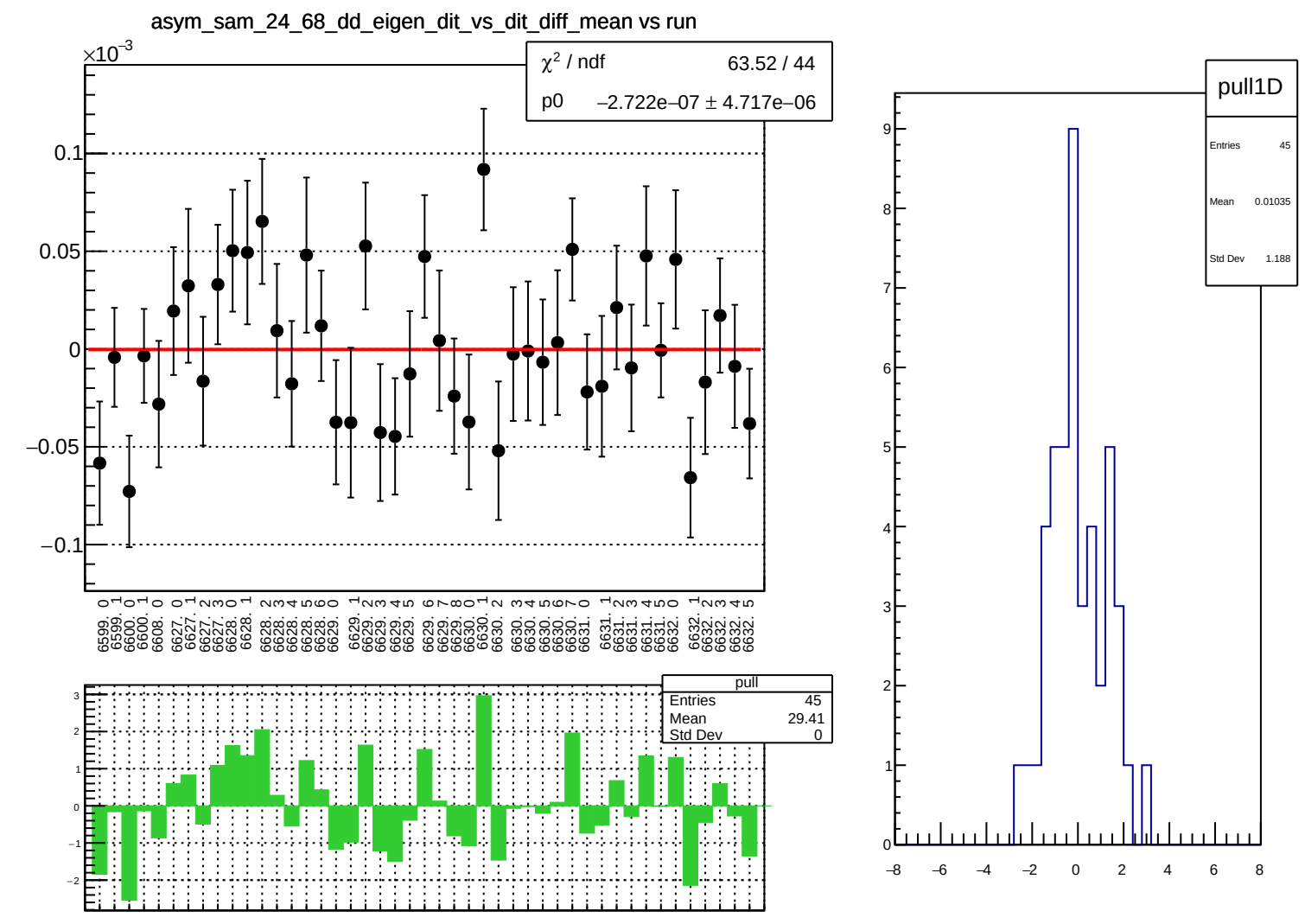

pull1D
Entries 45
Mean 0.003324
Std Dev 1.041

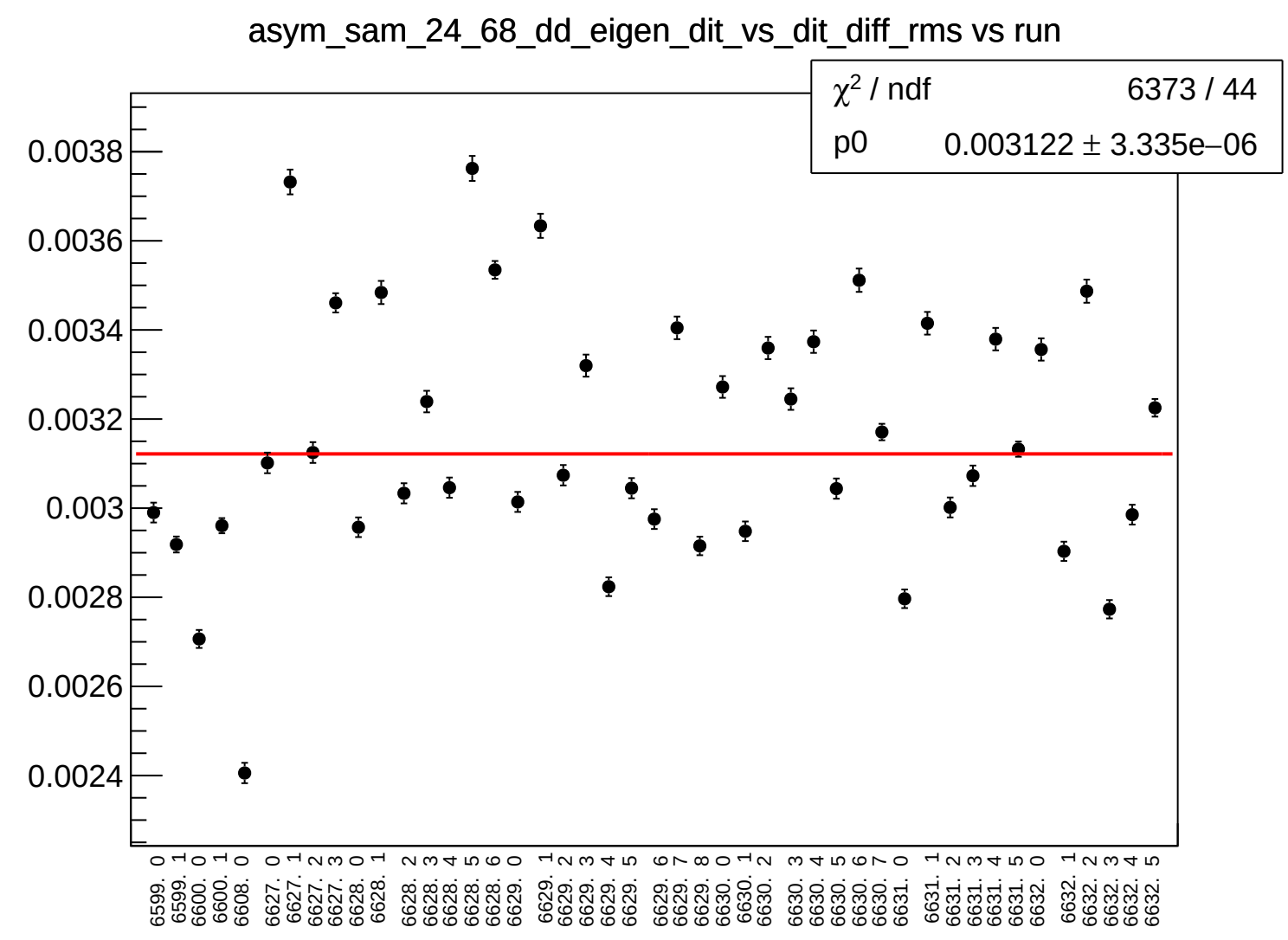

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6210 / 44
p0 40.47 ± 0.04323
50
48
46
44
42
40
38
36
34
32
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

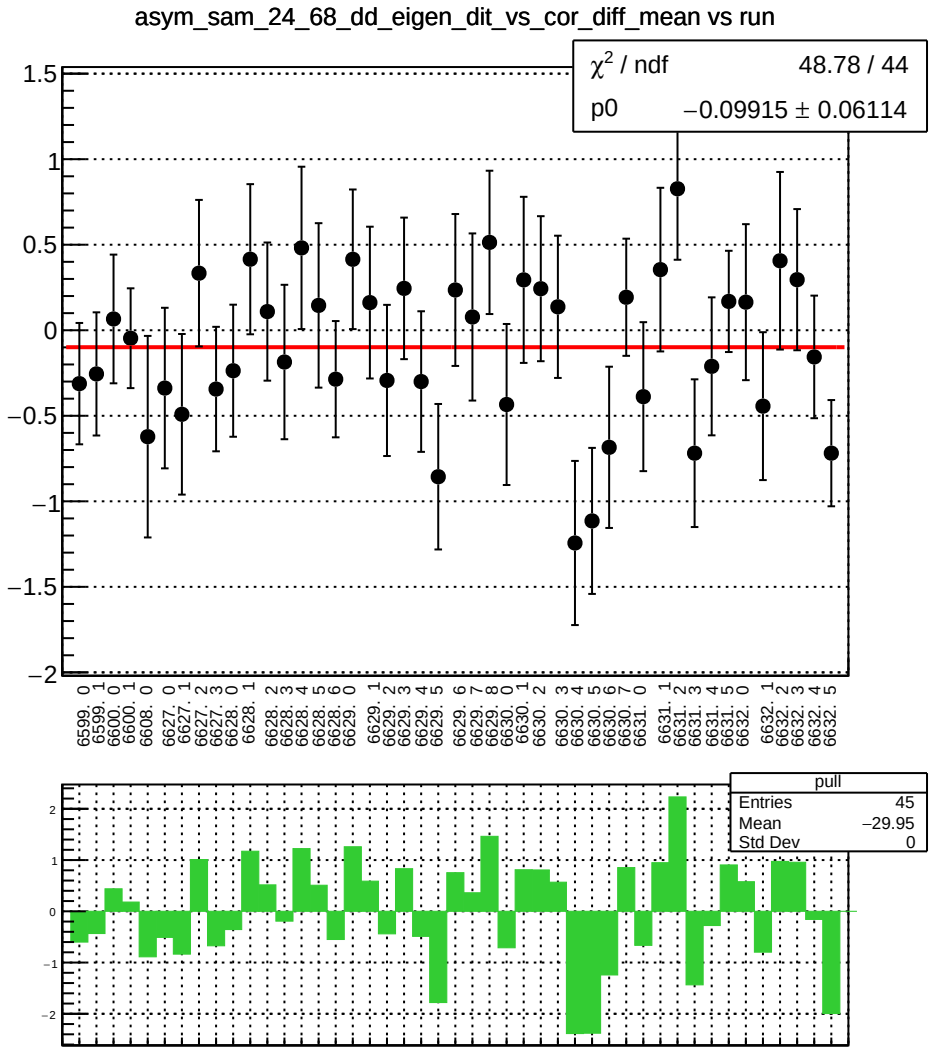

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.78 / 44
p0 −0.09915 ± 0.06114
pull
Entries 45
Mean −29.99
Std Dev 0

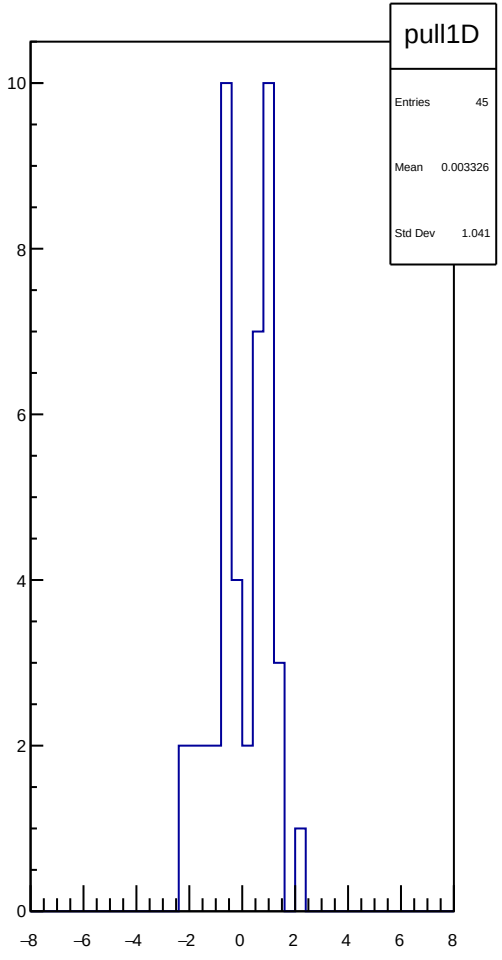

pull1D
Entries 45
Mean 0.003324
Std Dev 1.041

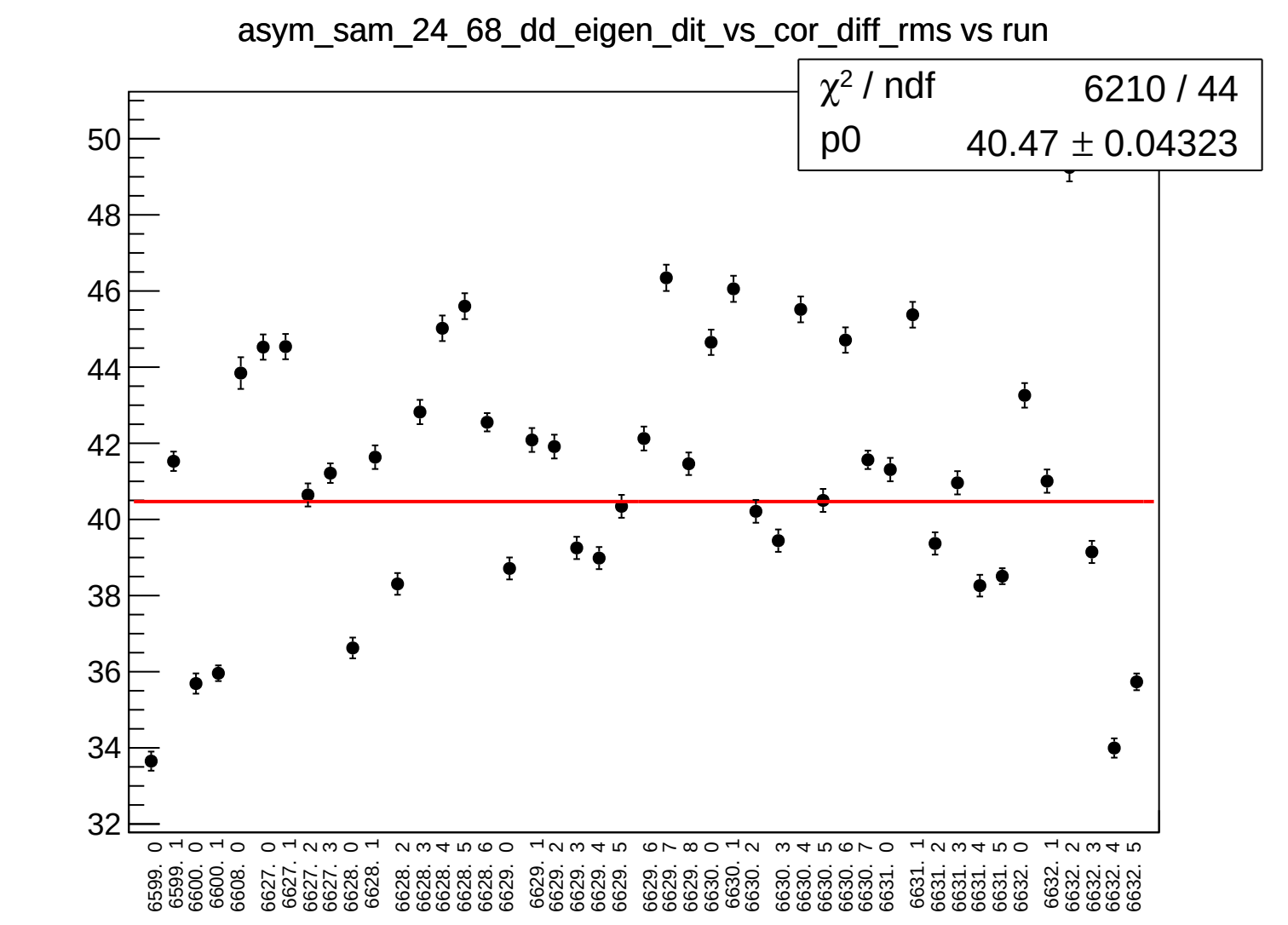

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6210 / 44
p0 40.47 ± 0.04323
50
48
46
44
42
40
38
36
34
32
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

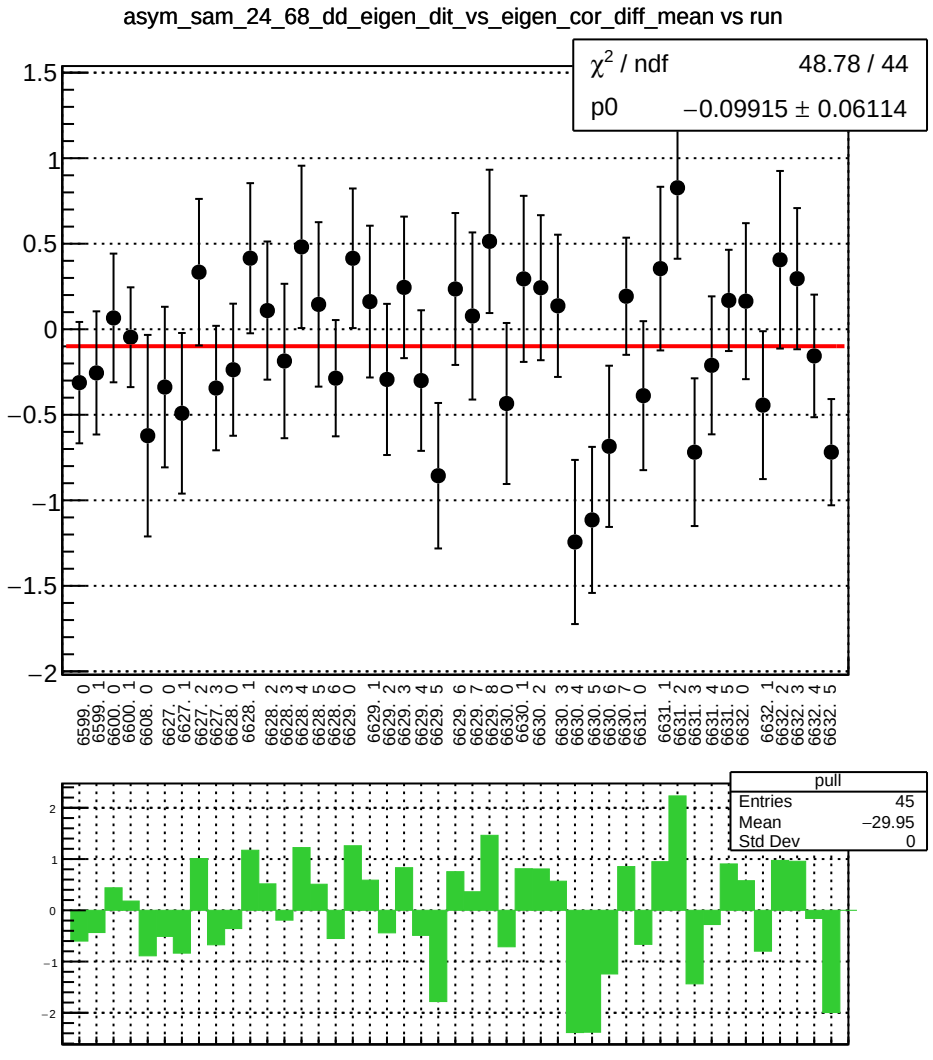

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 63.52 / 44
p0 −2.722e−07 ± 4.717e−06
0.1
0.05
0
−0.05
−0.1
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 29.41
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01035
Std Dev 1.188
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

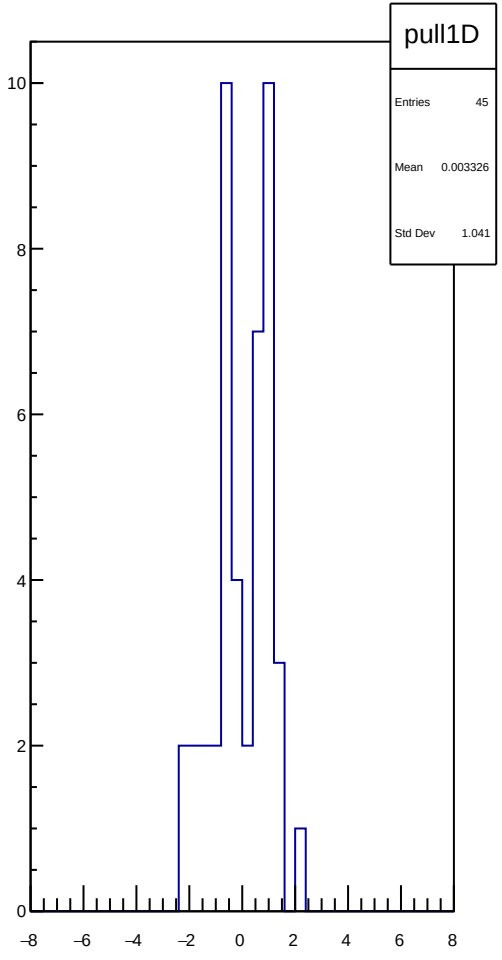

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6373 / 44
p0 0.003122 ± 3.335e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

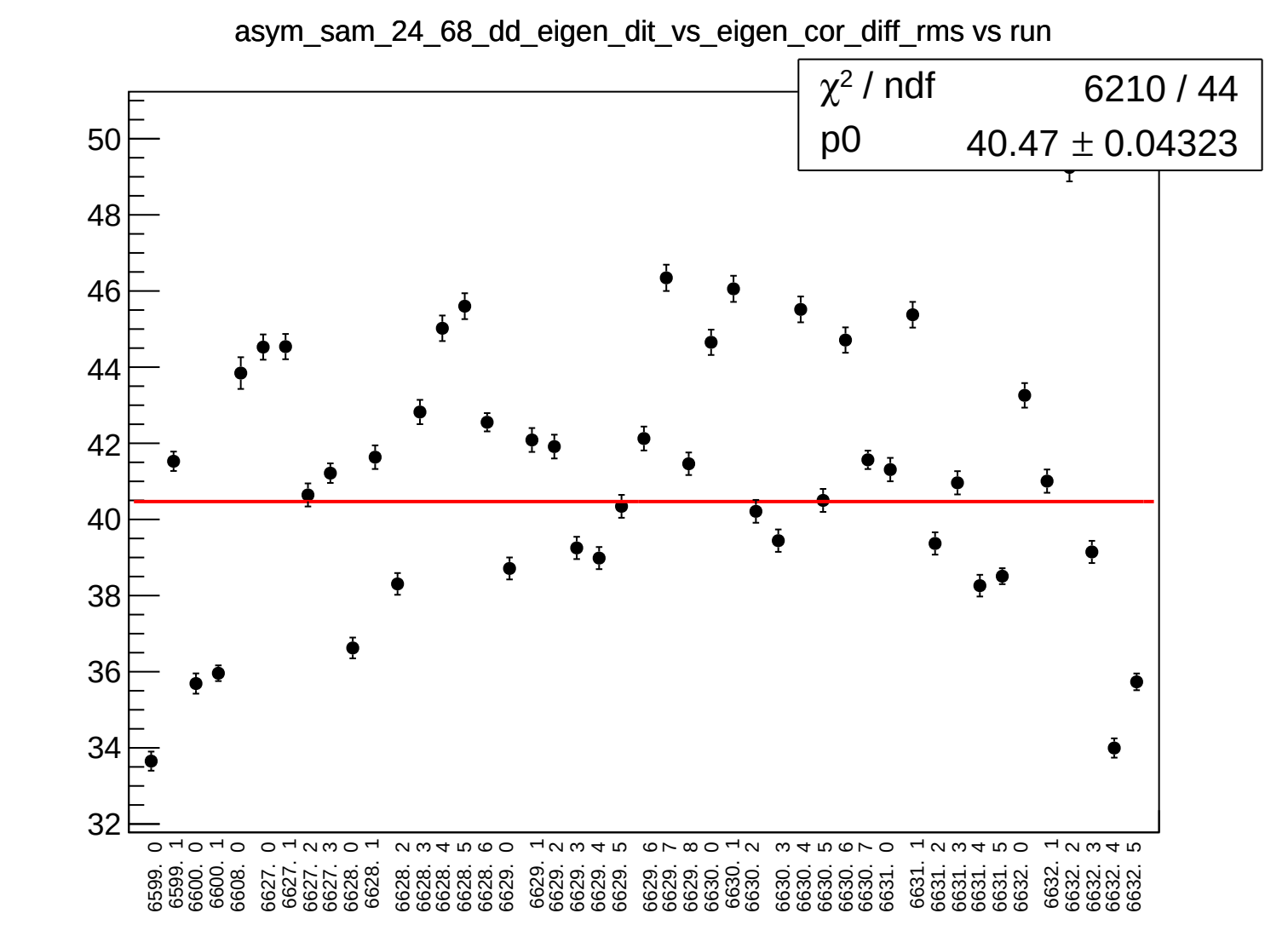

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 48.78 / 44
p0 −0.09915 ± 0.06114
pull
Entries 45
Mean −29.95
Std Dev 0

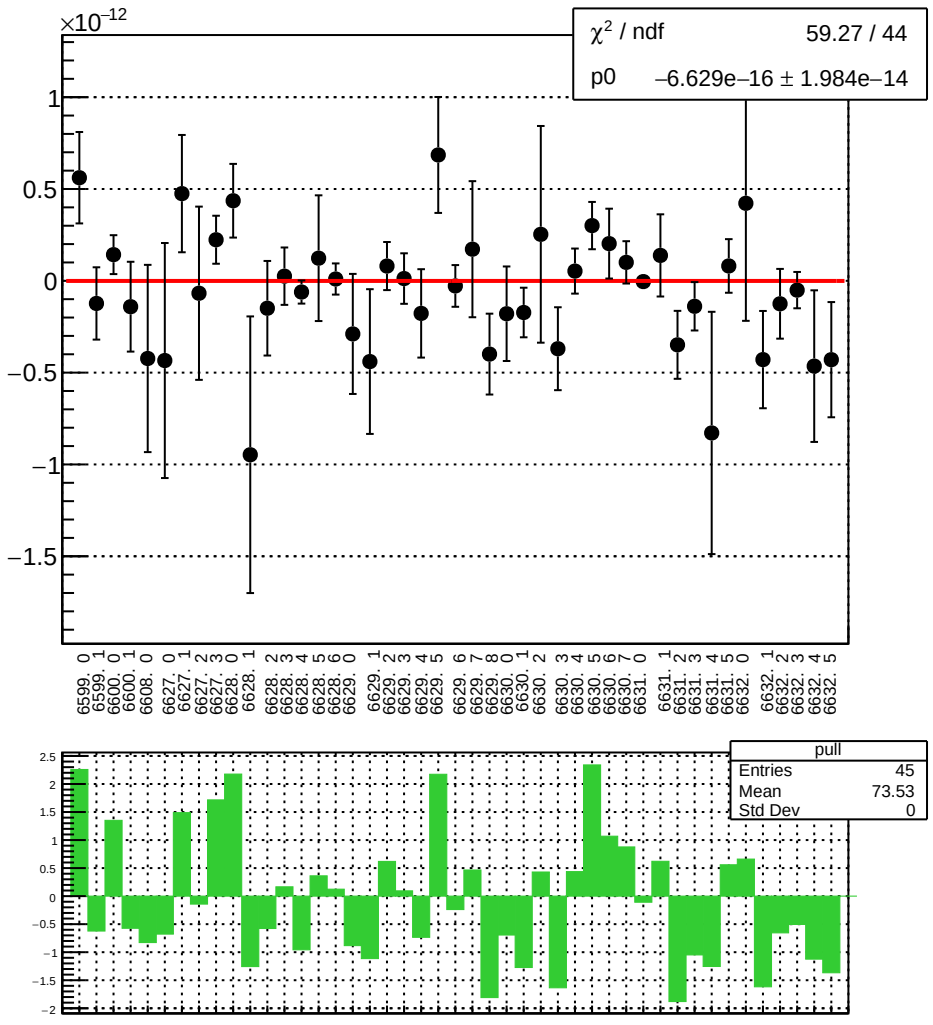

pull1D
Entries 45
Mean 0.003326
Std Dev 1.041

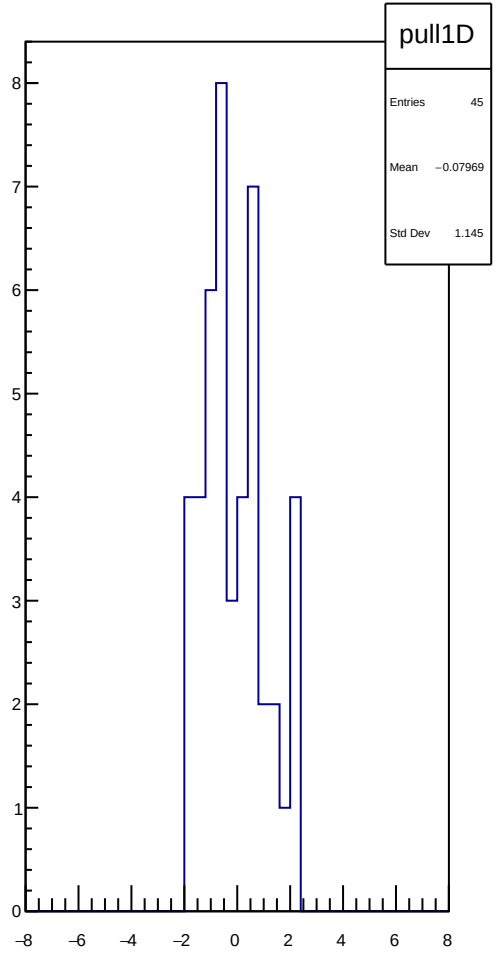

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6210 / 44
p0 40.47 ± 0.04323
50
48
46
44
42
40
38
36
34
32
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

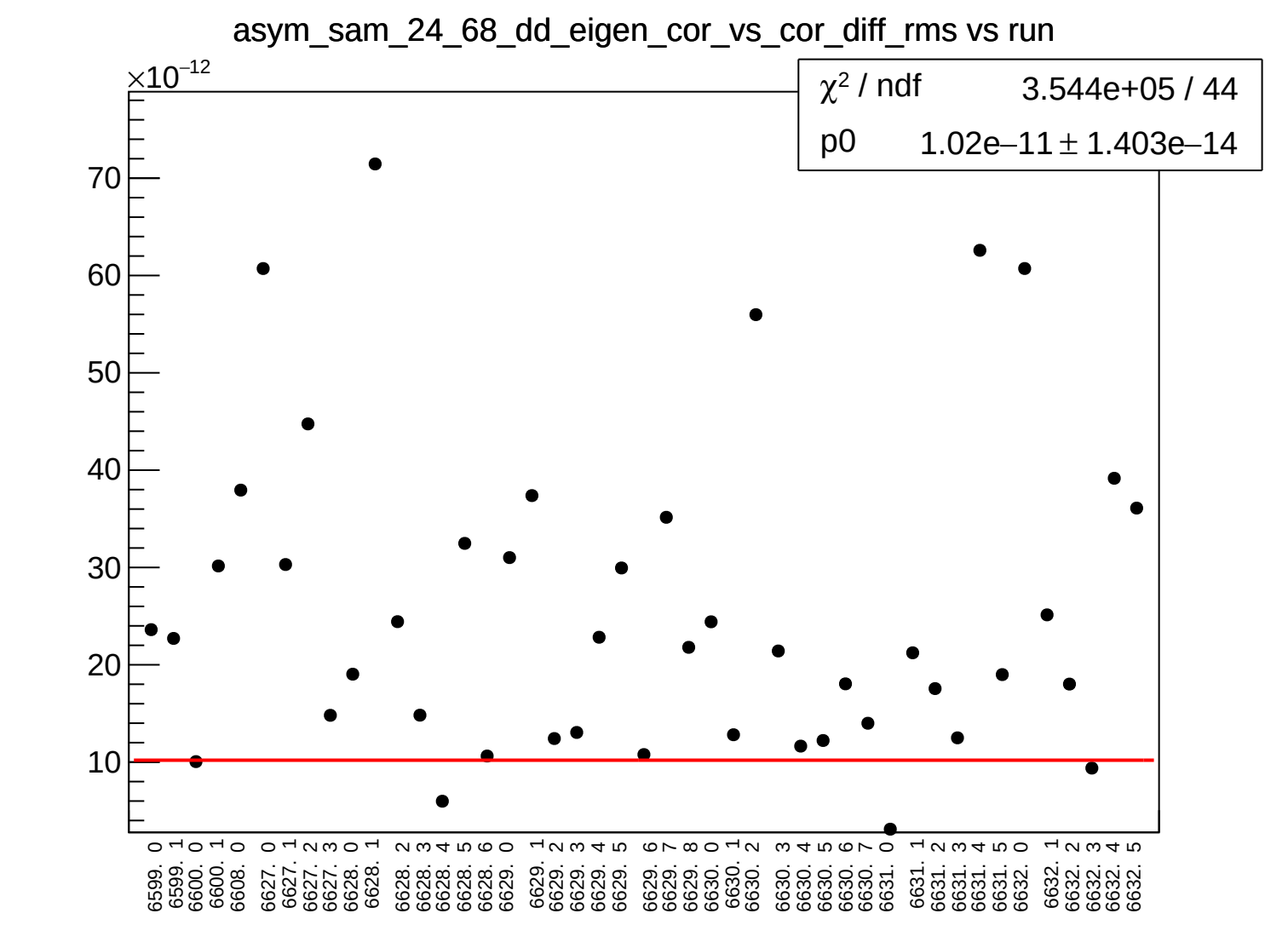

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.78 / 44
p0 −0.09915 ± 0.06114
pull
Entries 45
Mean −29.95
Std Dev 0

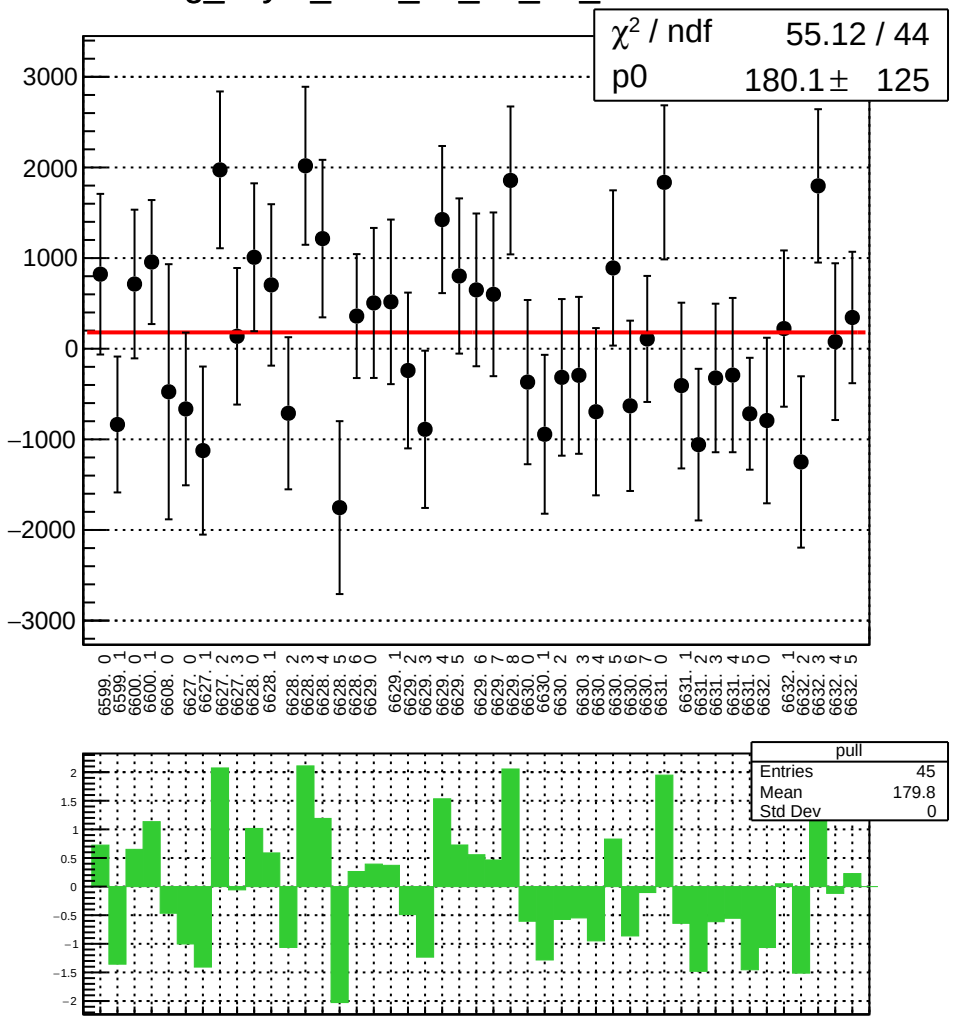

pull1D
Entries 45
Mean 0.003326
Std Dev 1.041

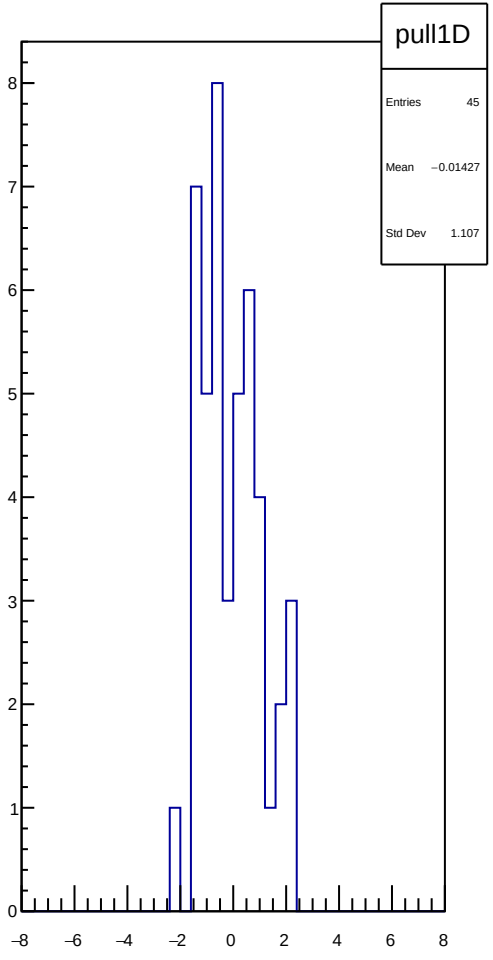

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6210 / 44
p0 40.47 ± 0.04323
50
48
46
44
42
40
38
36
34
32
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

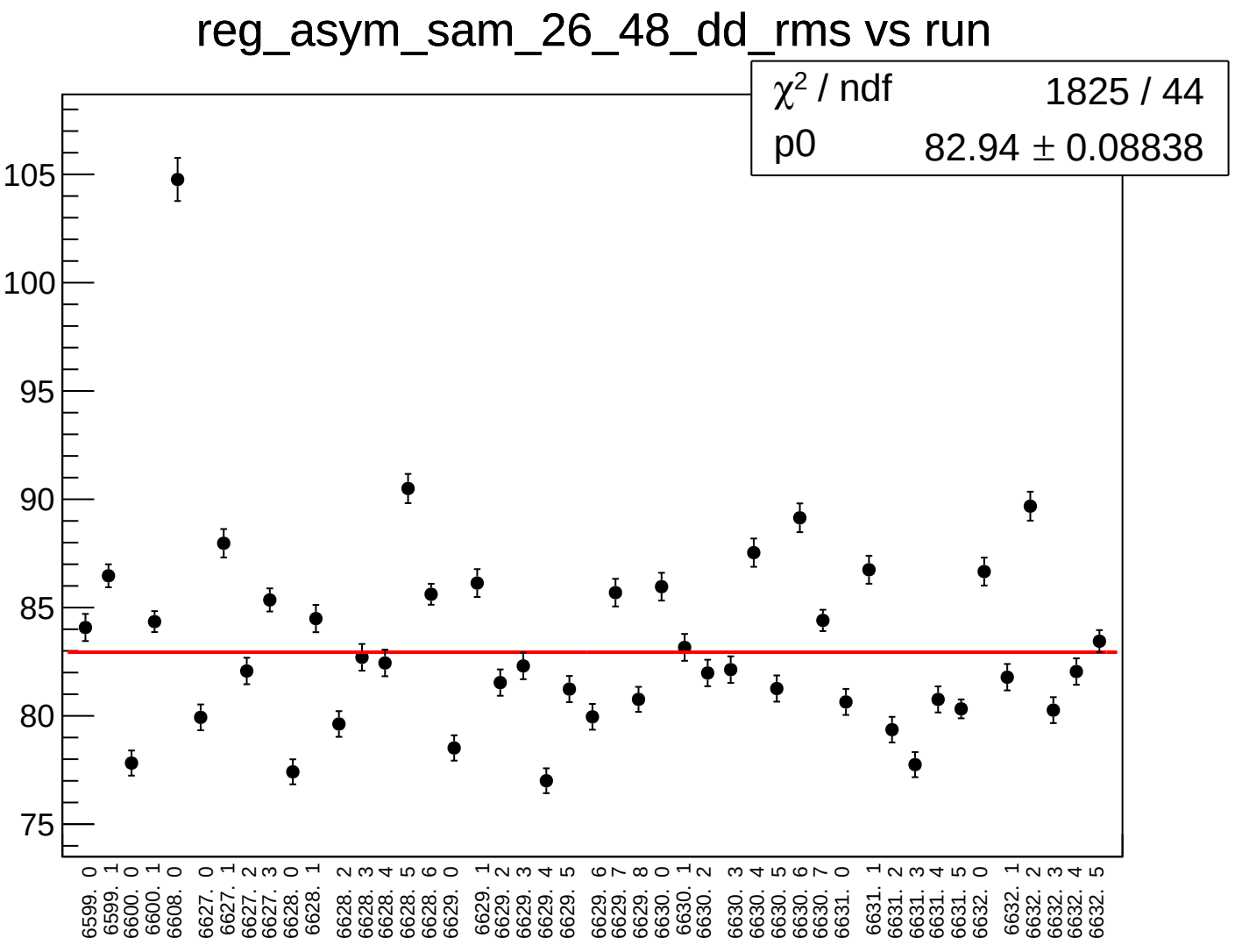

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 59.27 / 44
p0 −6.629e−16 ± 1.984e−14
pull
Entries 45
Mean 73.53
Std Dev 0

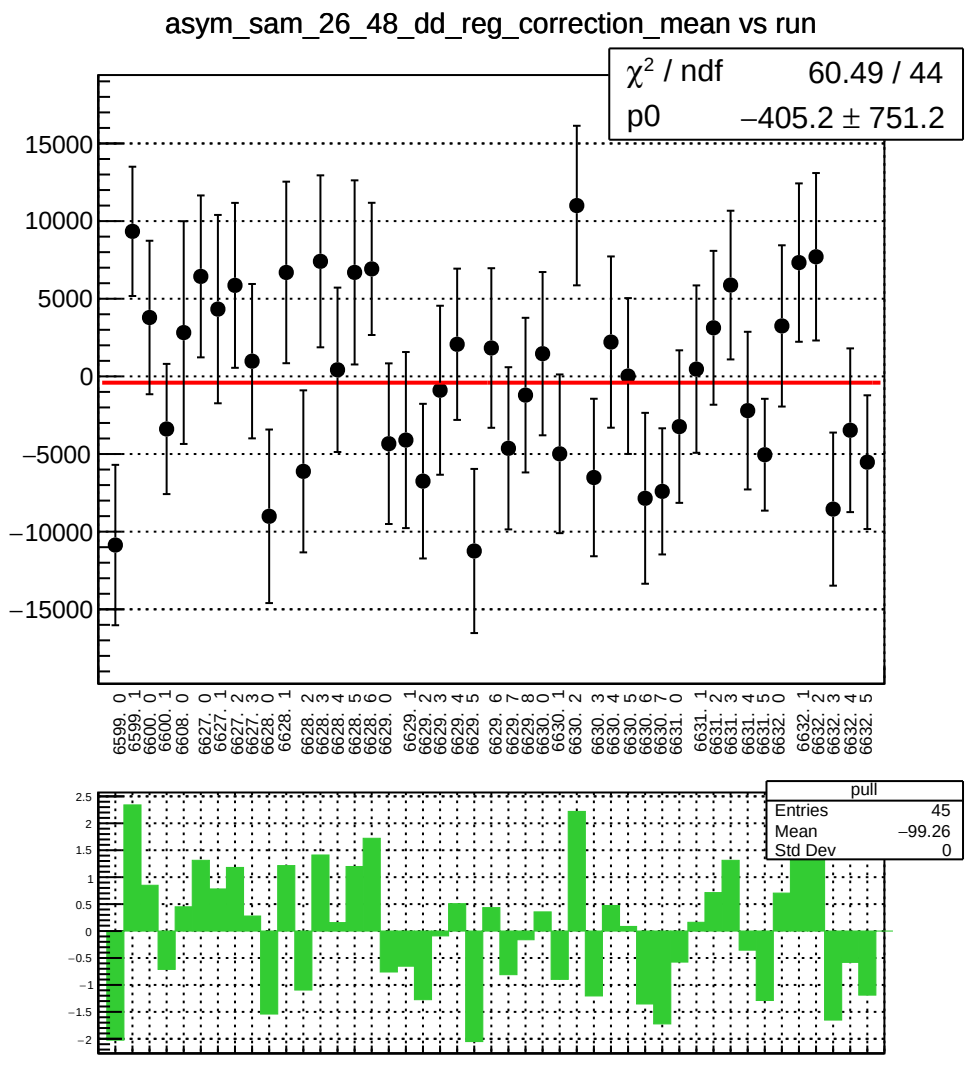

pull1D
Entries 45
Mean −0.07969
Std Dev 1.145


asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.544e+05 / 44
p0 1.02e−11 ± 1.403e−14
70
60
50
40
30
20
10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 55.12 / 44
p0 180.1 ± 125
3000
2000
1000
0
−1000
−2000
−3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 179.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.01427
Std Dev 1.107
8
7
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 1825 / 44
p0 82.94 ± 0.08838
105
100
95
90
85
80
75
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 60.49 / 44
p0 −405.2 ± 751.2
15000
10000
5000
0
−5000
−10000
−15000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −99.26
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01998
Std Dev 1.159
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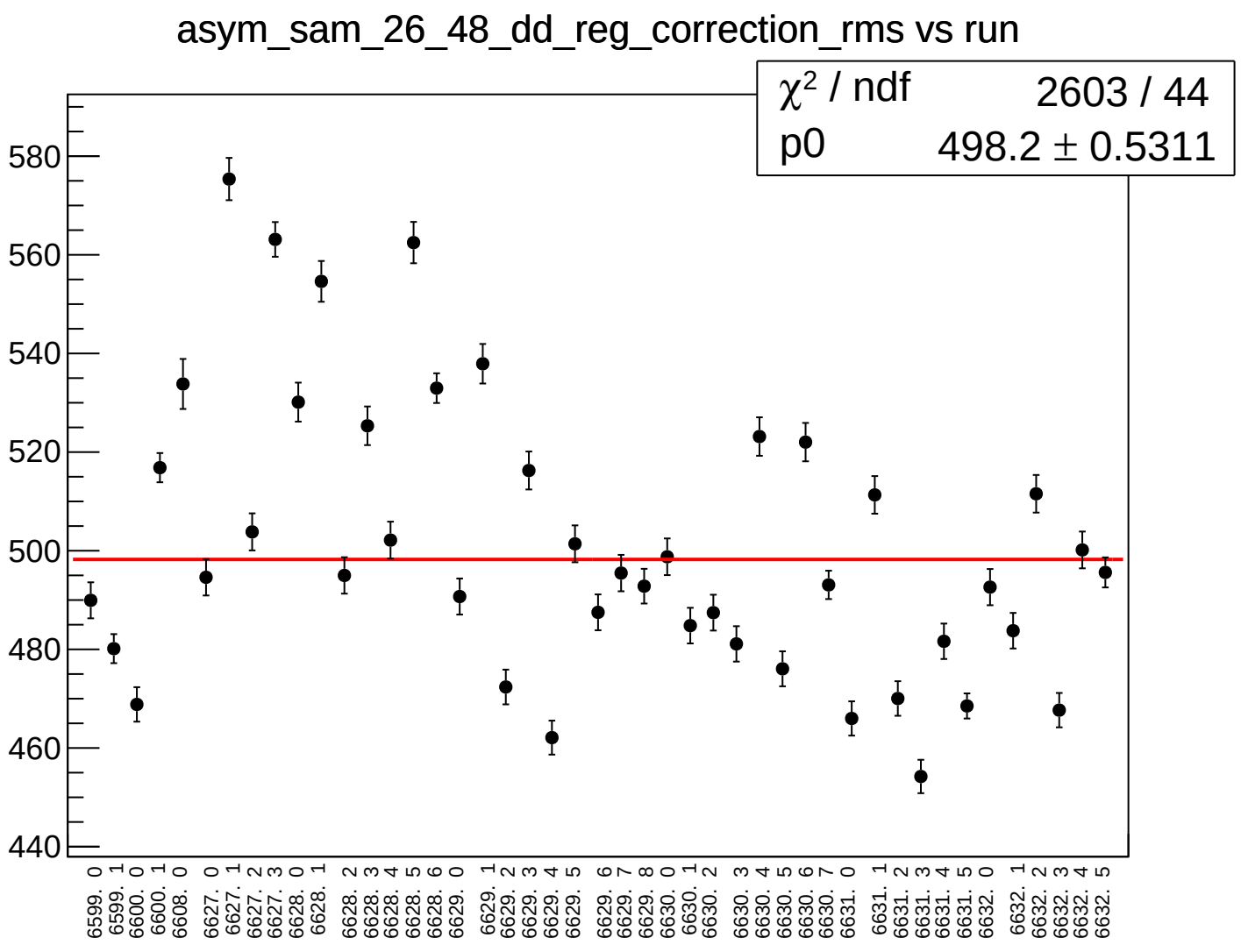
6
8


asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 2603 / 44
p0 498.2 ± 0.5311
580
560
540
520
500
480
460
440
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
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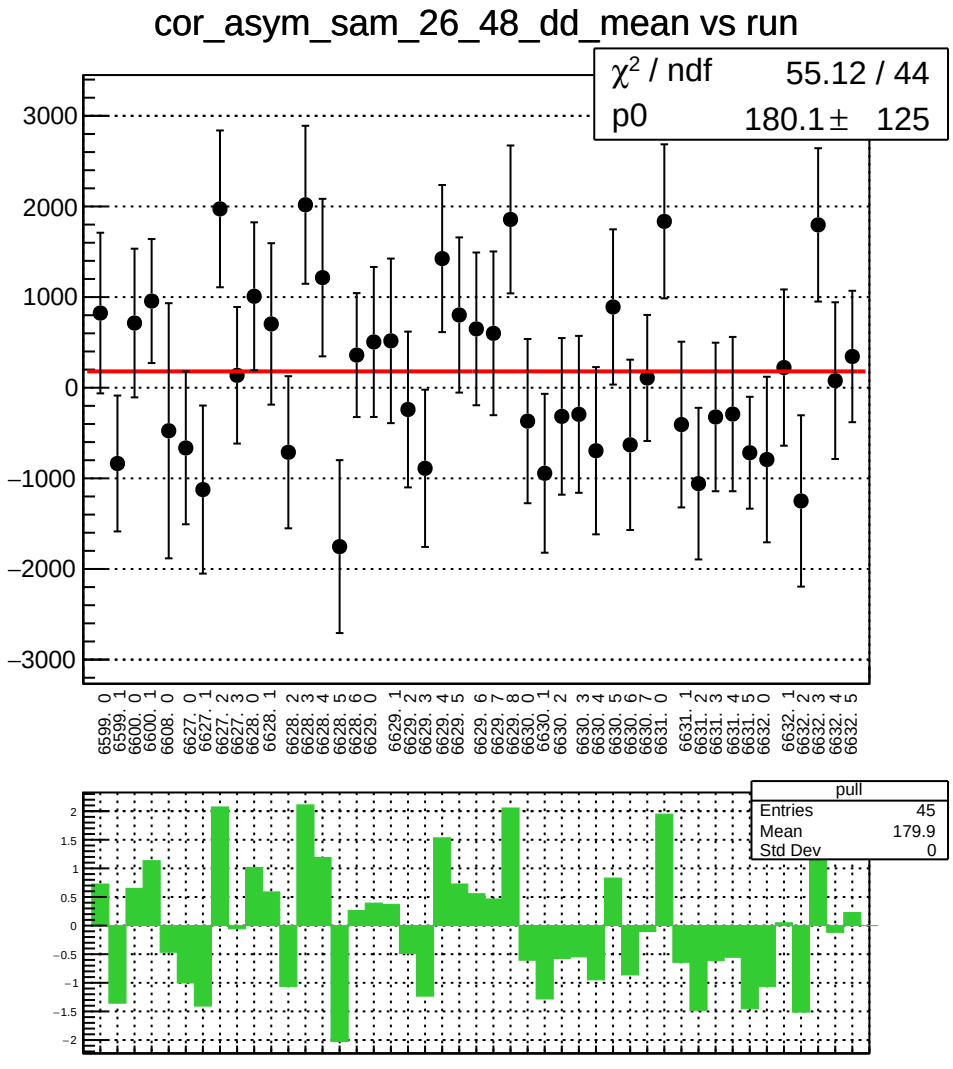
cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 55.12 / 44
p0 180.1 ± 125
3000
2000
1000
0
−1000
−2000
−3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
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6630. 1
6630. 2
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 179.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01427
Std Dev 1.107
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−4
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2
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6
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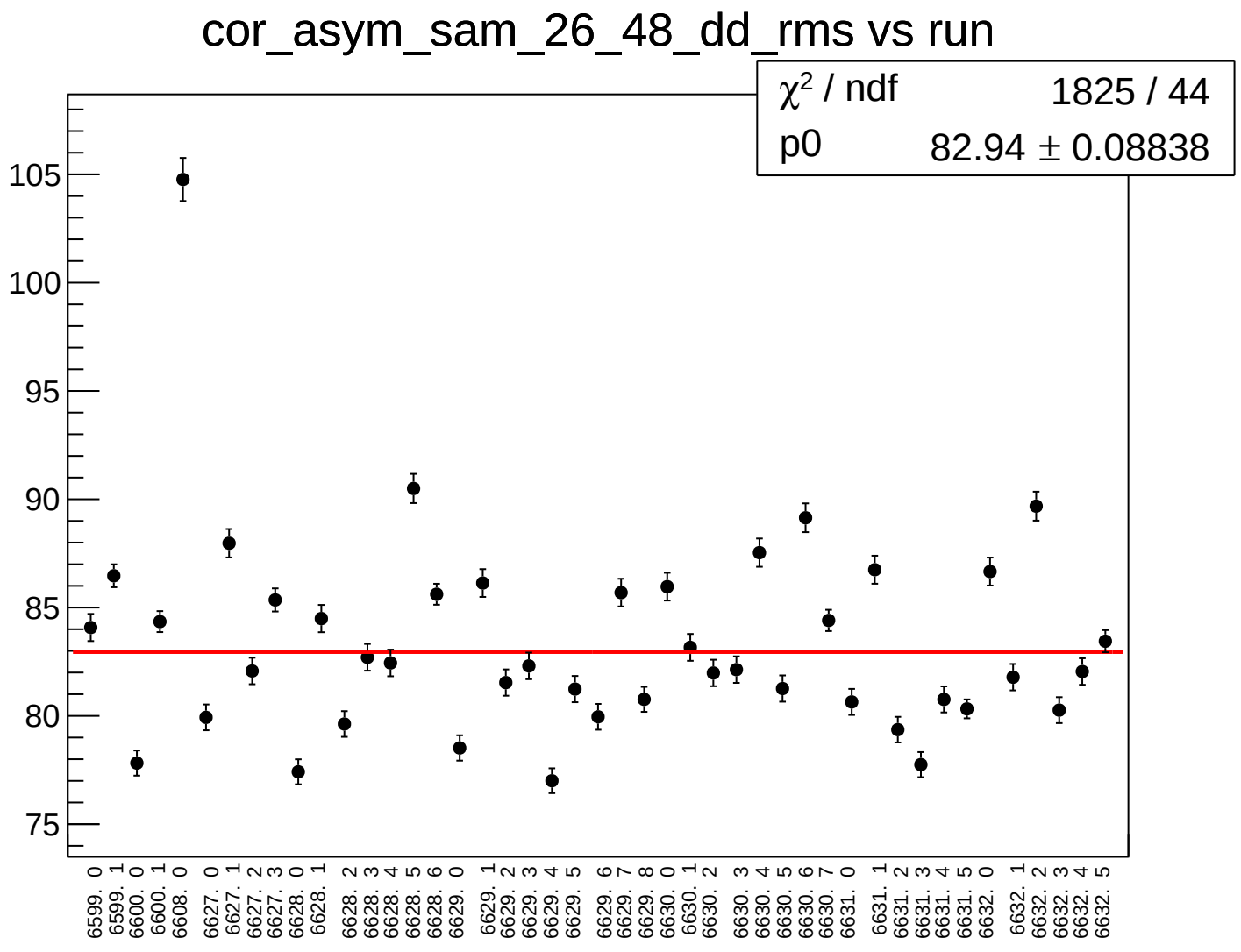
cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 1825 / 44
p0 82.94 ± 0.08838
105
100
95
90
85
80
75
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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6628. 0
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6630. 2
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6630. 5
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6630. 7
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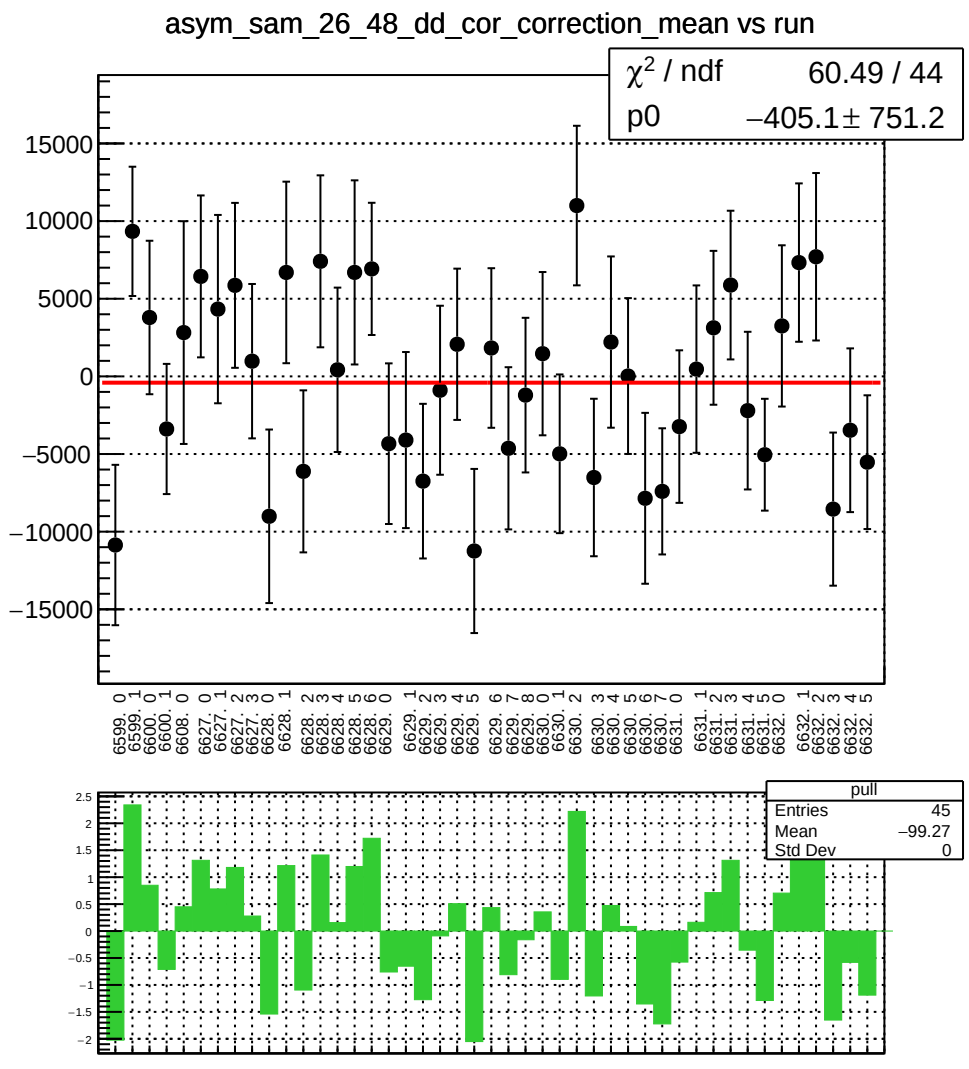
asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 60.49 / 44
p0 −405.1± 751.2
15000
10000
5000
0
−5000
−10000
−15000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
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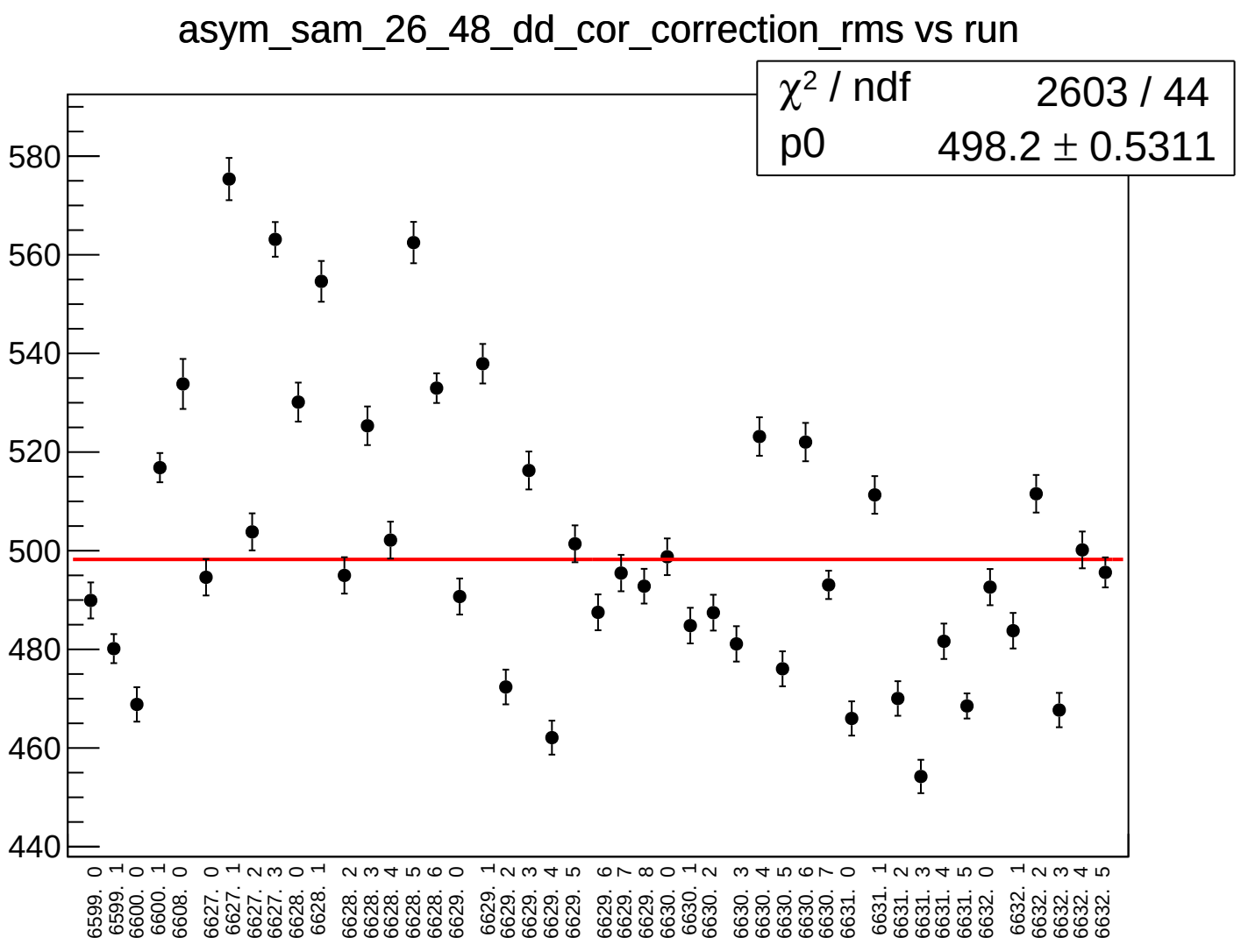
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −99.27
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01998
Std Dev 1.159
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 2603 / 44
p0 498.2 ± 0.5311
580
560
540
520
500
480
460
440
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6630. 1
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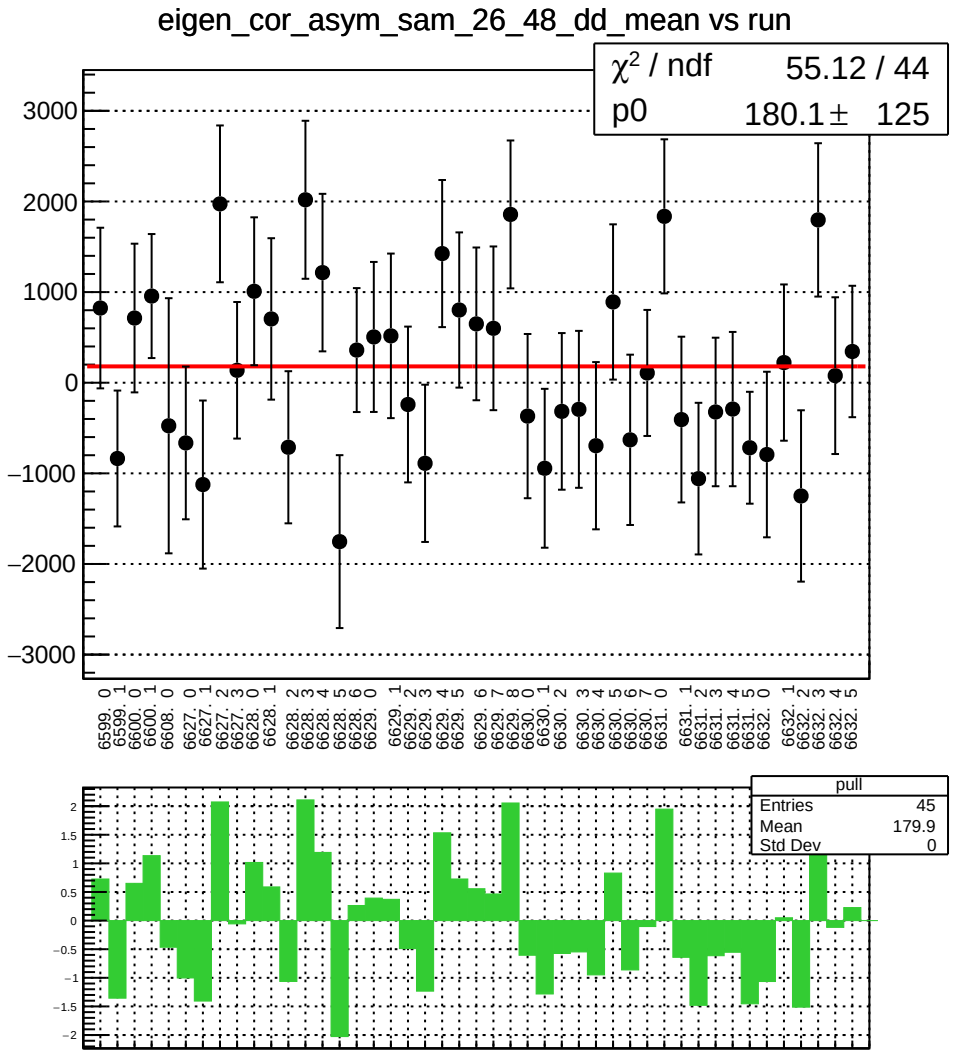
6632. 5


eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 55.12 / 44
p0 180.1 ± 125
3000
2000
1000
0
−1000
−2000
−3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
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6630. 1
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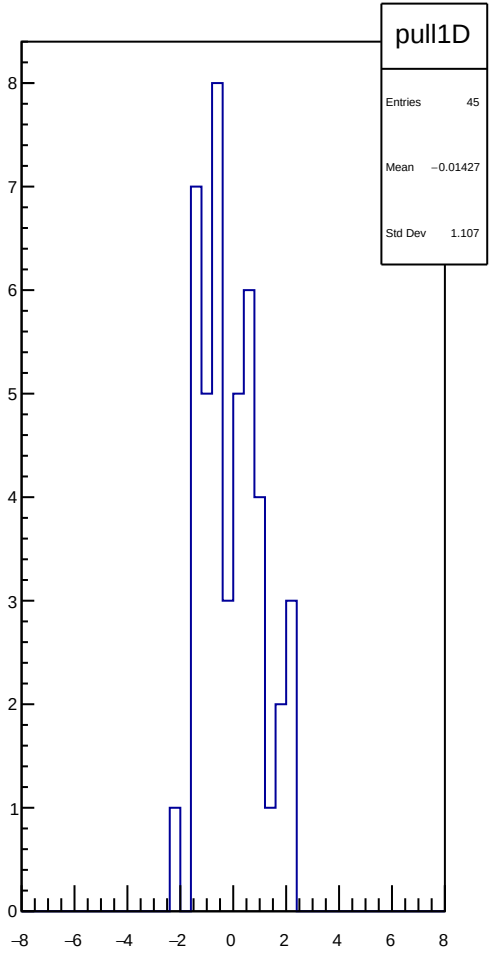
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 179.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.01427
Std Dev 1.107
8
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5
4
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1
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−8
−6
−4
−2
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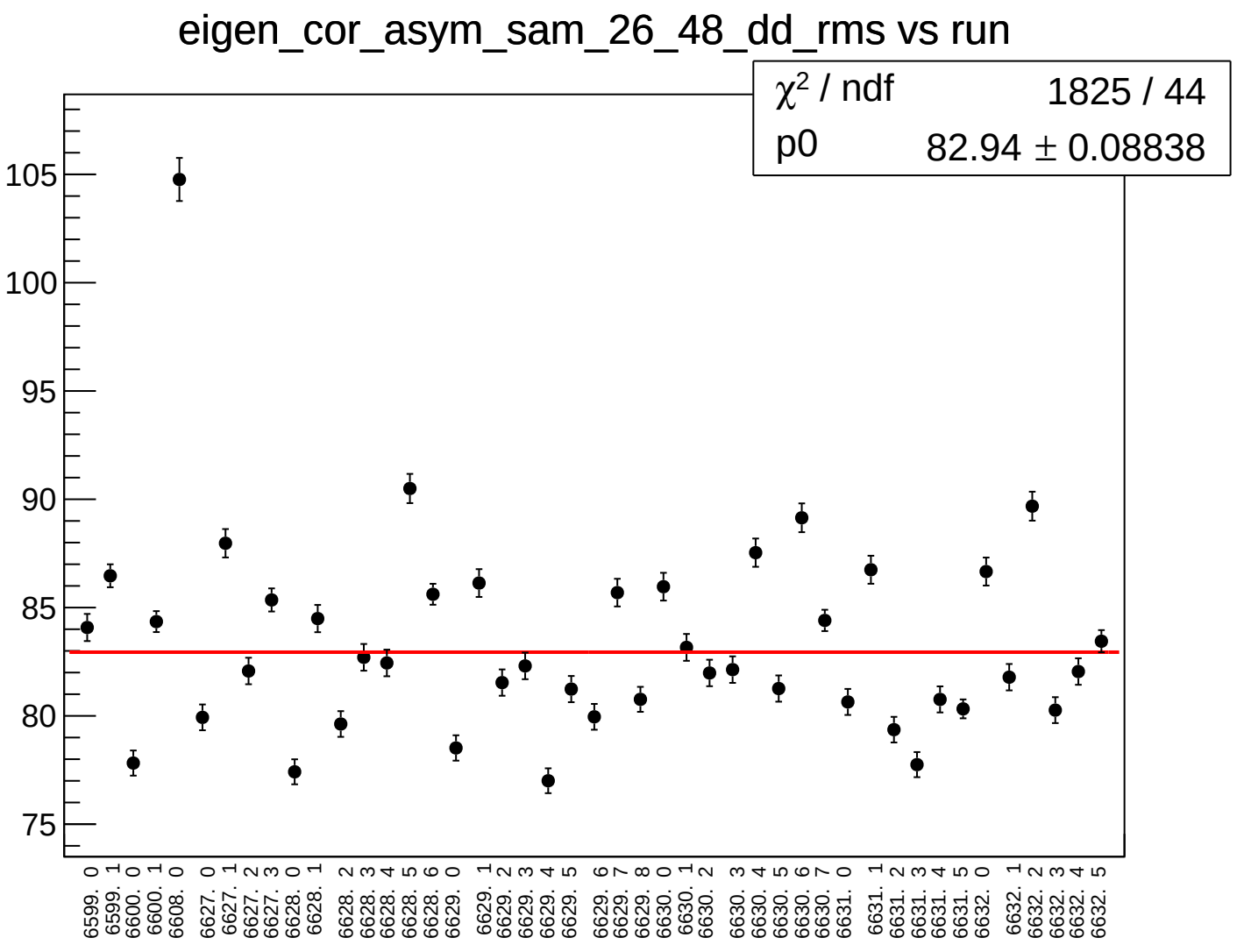
2
4
6
8


eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 1825 / 44
p0 82.94 ± 0.08838
105
100
95
90
85
80
75
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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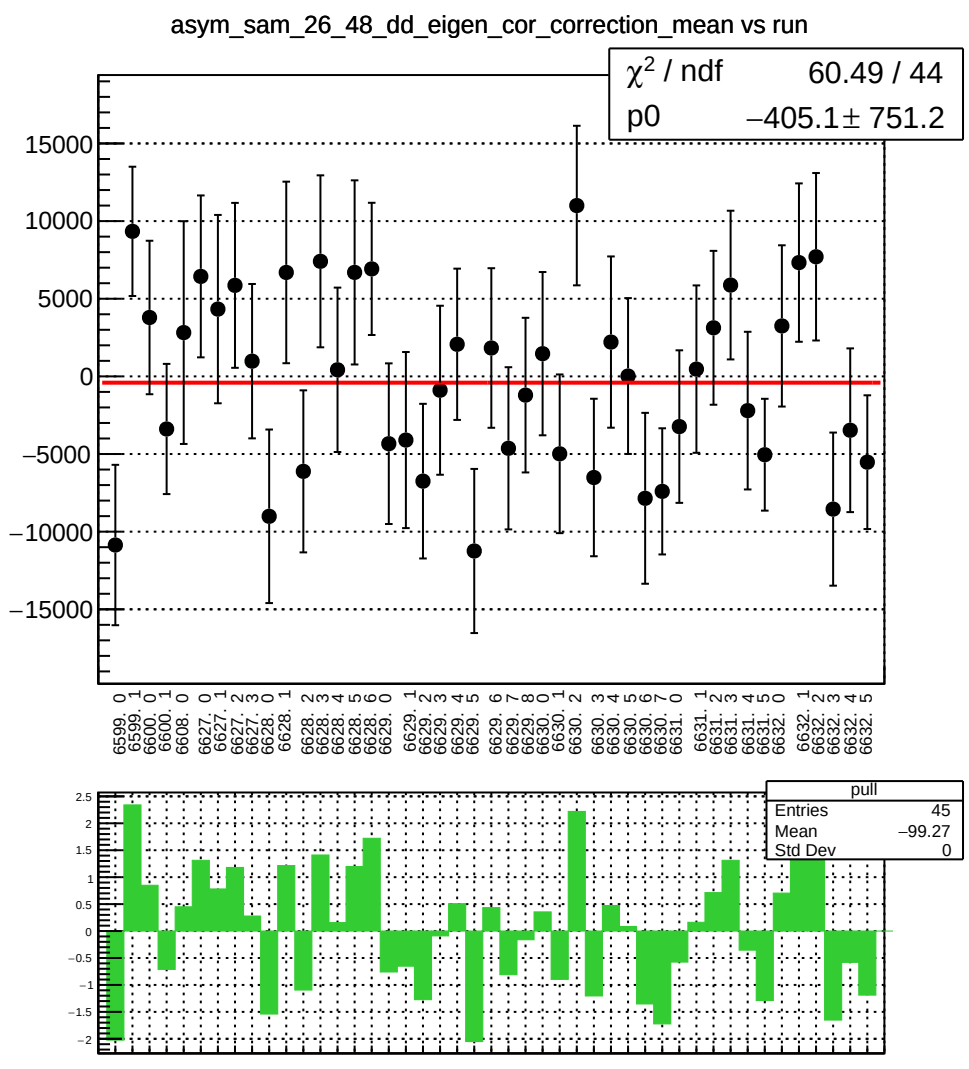
asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 60.49 / 44
p0 −405.1± 751.2
15000
10000
5000
0
−5000
−10000
−15000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 2
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6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
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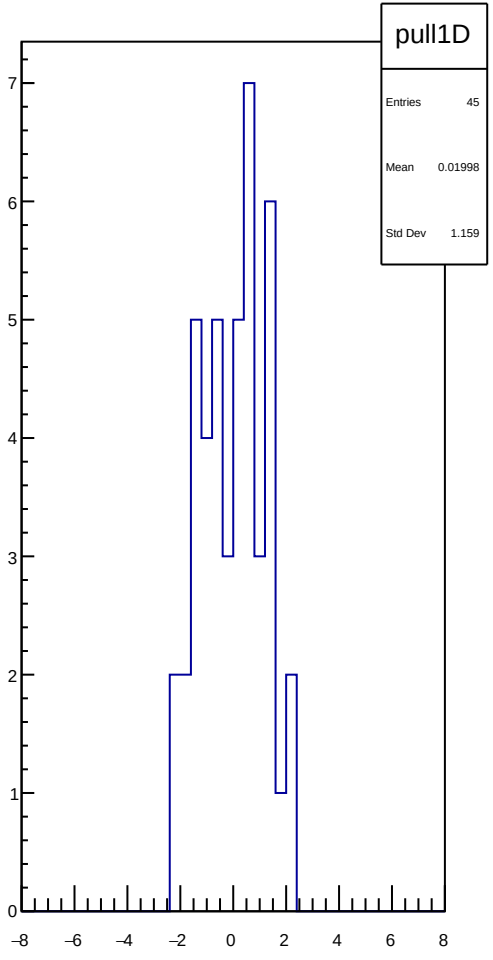
6632. 4
6632. 5
pull
Entries 45
Mean −99.27
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.01998
Std Dev 1.159
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−8
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−4
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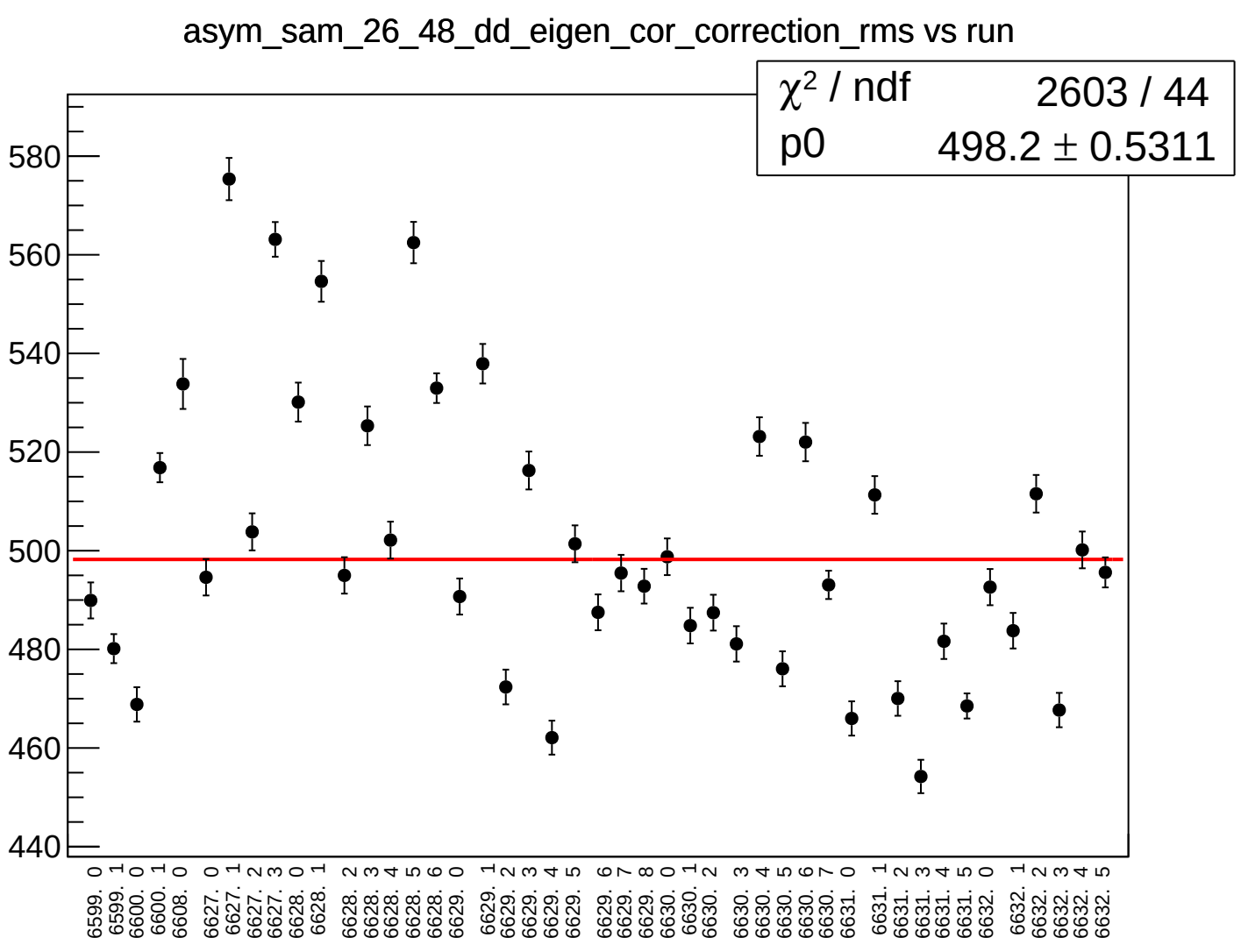
6
8


asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2603 / 44
p0 498.2 ± 0.5311
580
560
540
520
500
480
460
440
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
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6627. 3
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6630. 2
6630. 3
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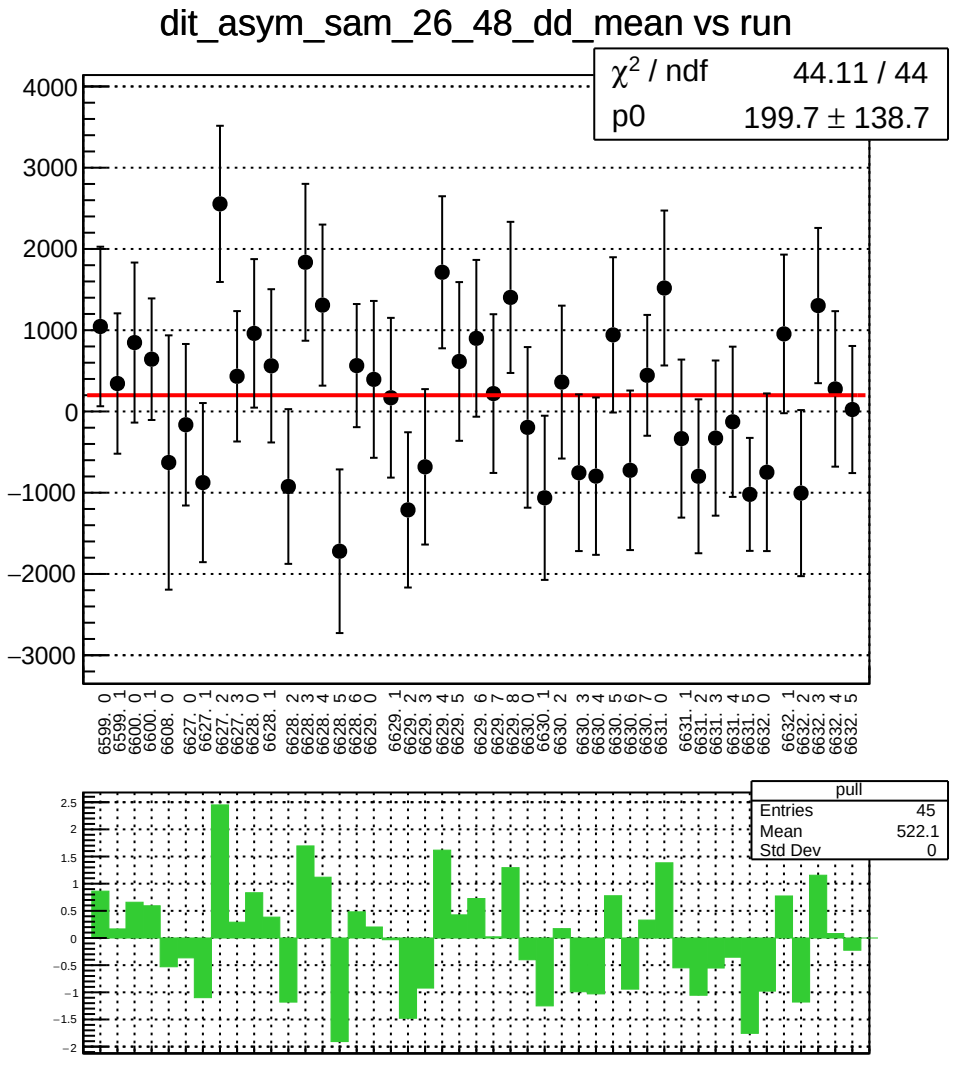
6632. 5


dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 44.11 / 44
p0 199.7 ± 138.7
4000
3000
2000
1000
0
−1000
−2000
−3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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6630. 1
6630. 2
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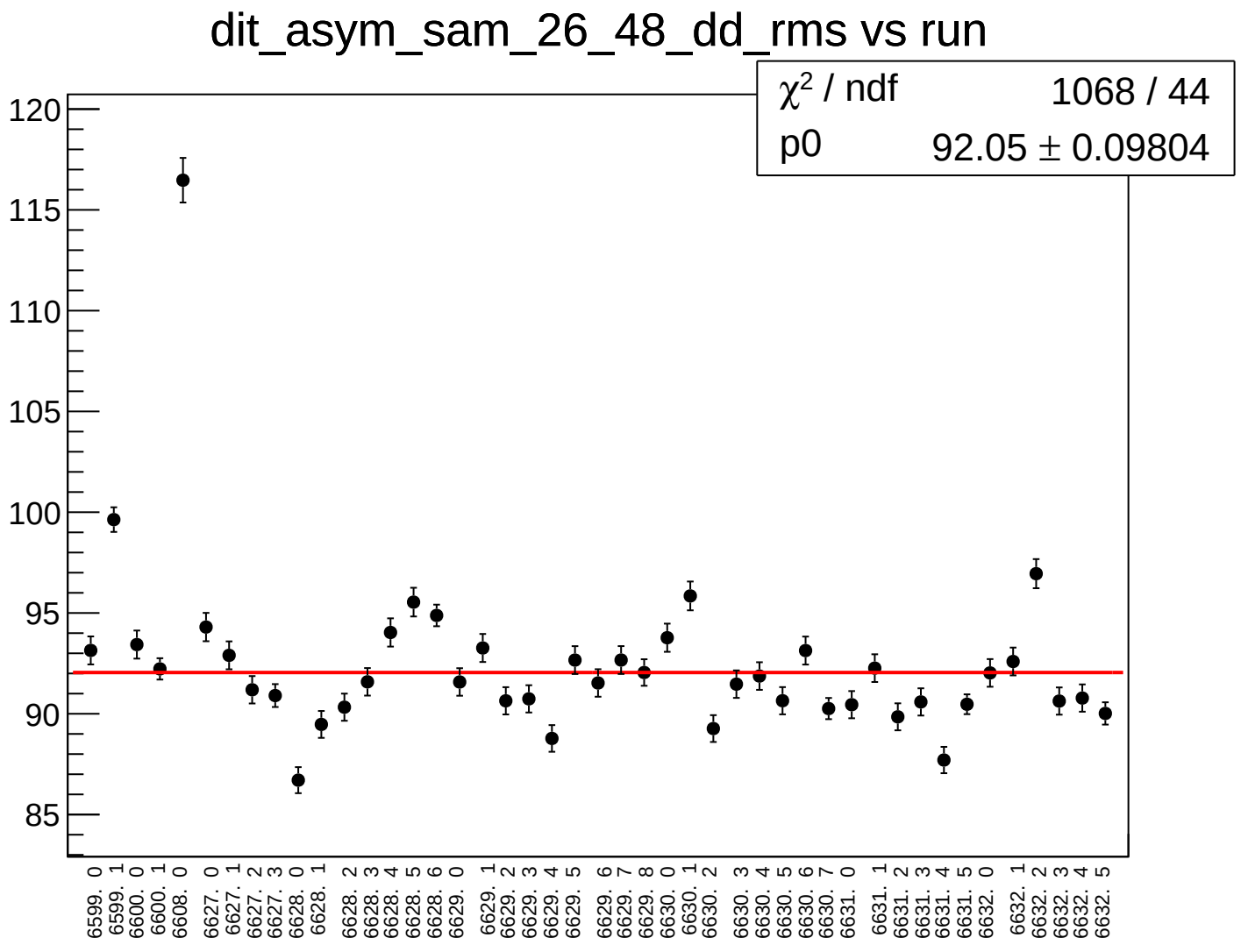
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 522.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.005971
Std Dev 0.9901
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 1068 / 44
p0 92.05 ± 0.09804
120
115
110
105
100
95
90
85
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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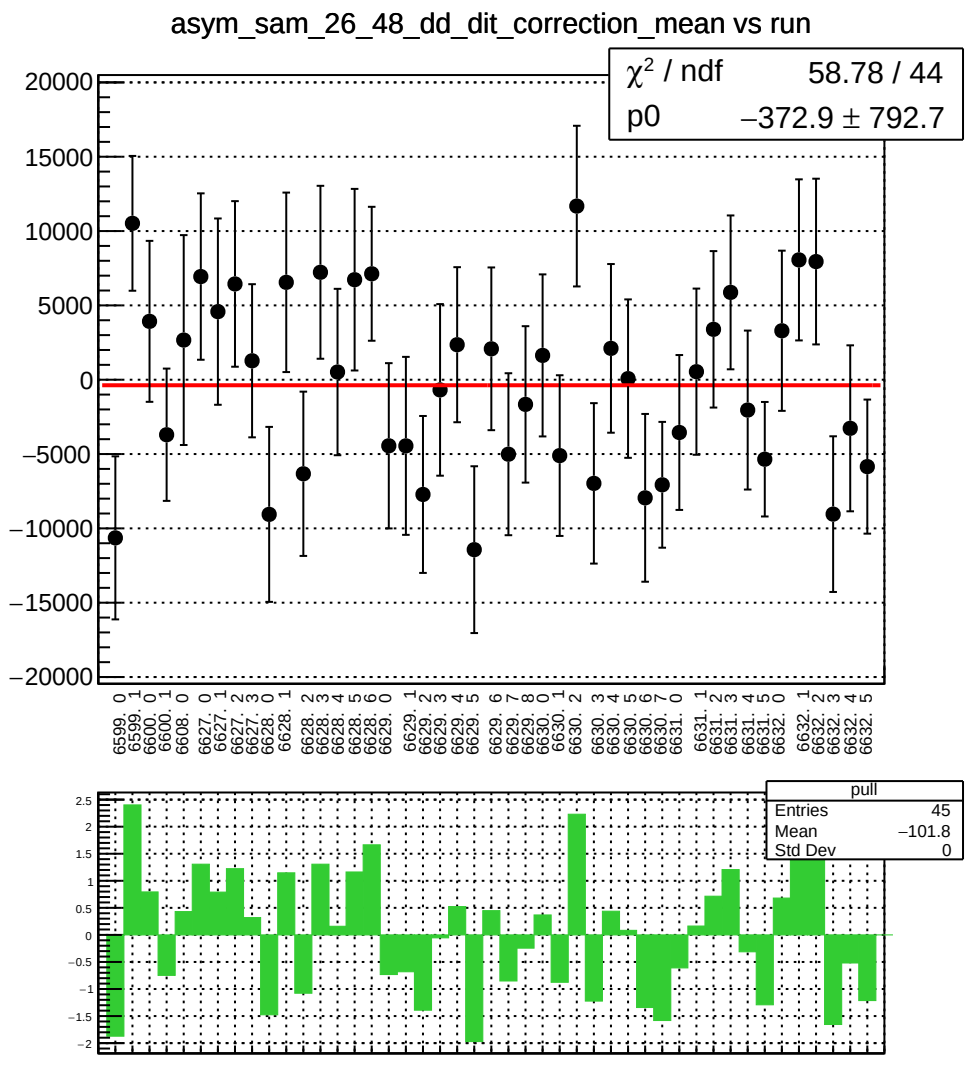
asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 58.78 / 44
p0 −372.9 ± 792.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
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6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −101.8
Std Dev 0
2.5
2
1.5
1
0.5
0
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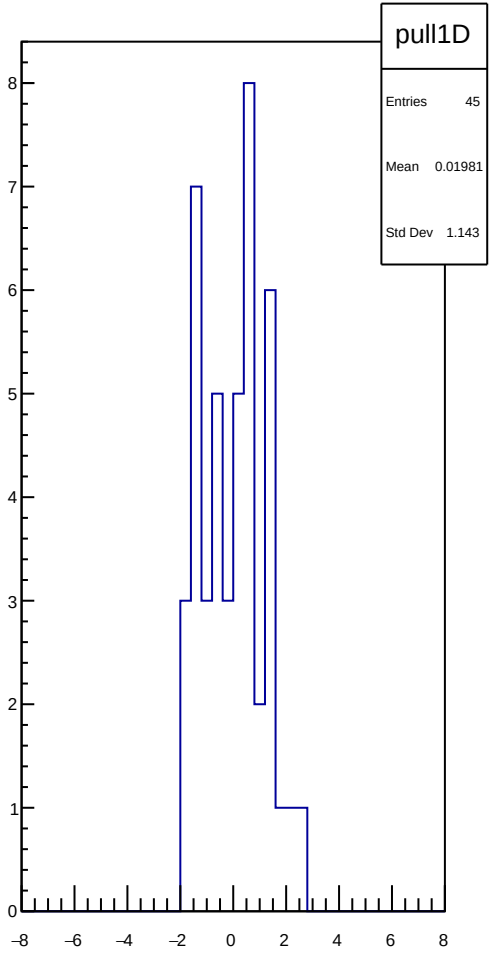
−1
−1.5
−2


pull1D
Entries 45
Mean 0.01981
Std Dev 1.143
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−4
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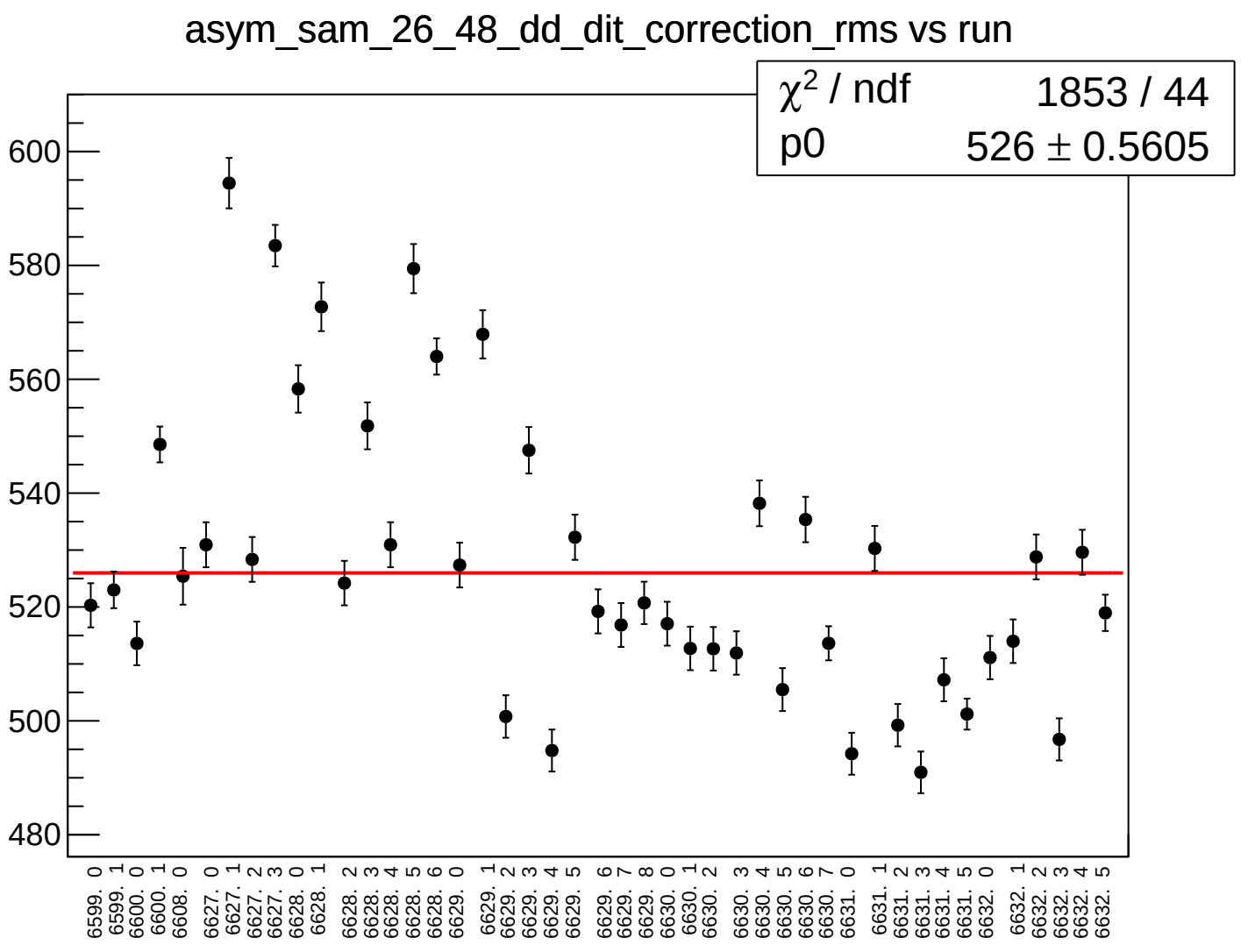
2
4
6
8


asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 1853 / 44
p0 526 ± 0.5605
600
580
560
540
520
500
480
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
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6629. 0
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6629. 6
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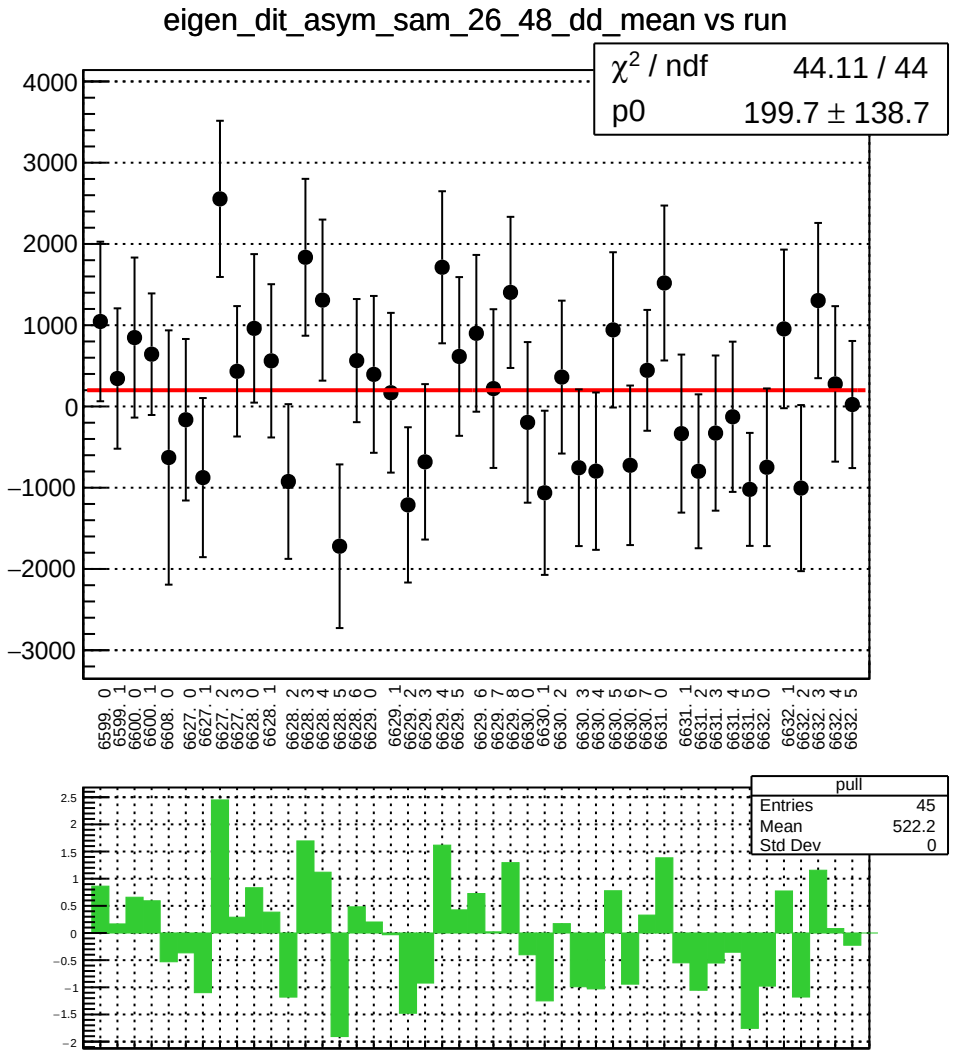
eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 44.11 / 44
p0 199.7 ± 138.7
4000
3000
2000
1000
0
−1000
−2000
−3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
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6628. 1
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6629. 0
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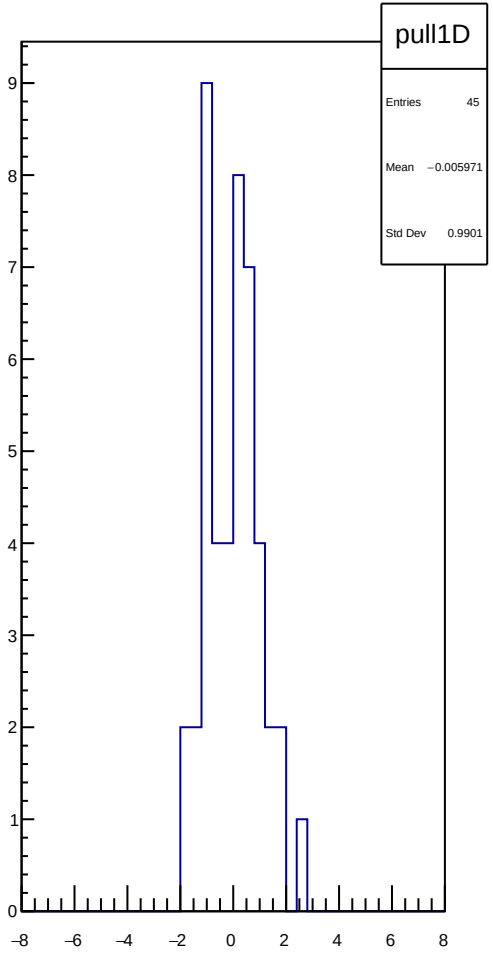
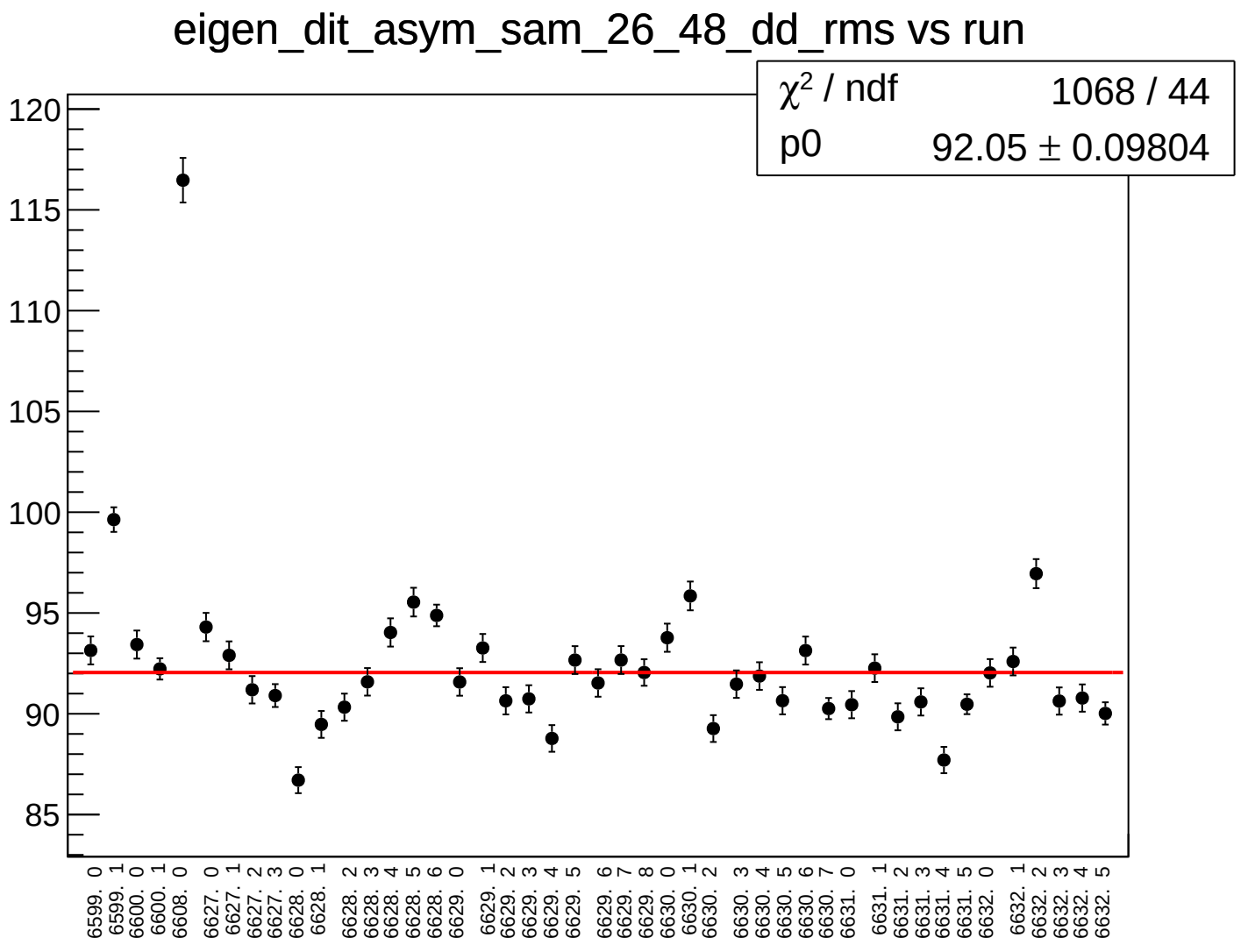
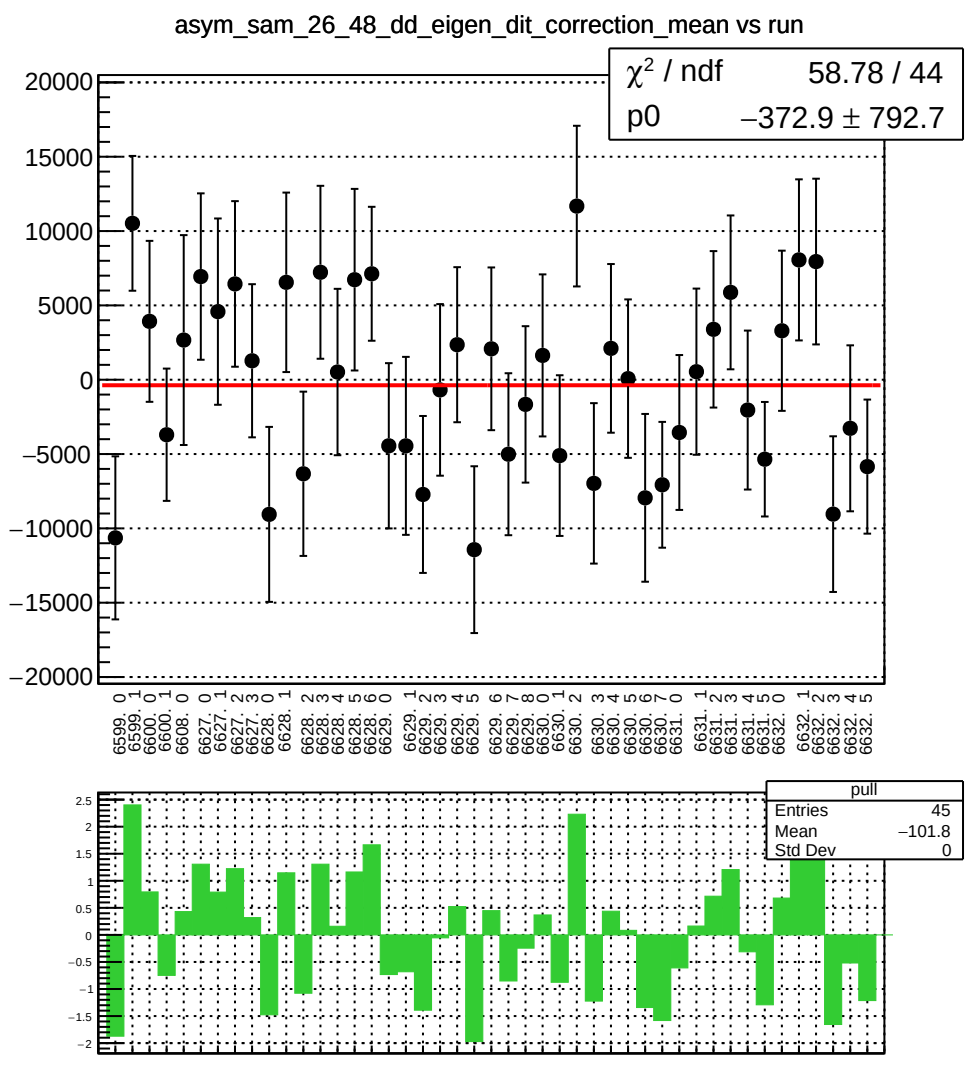
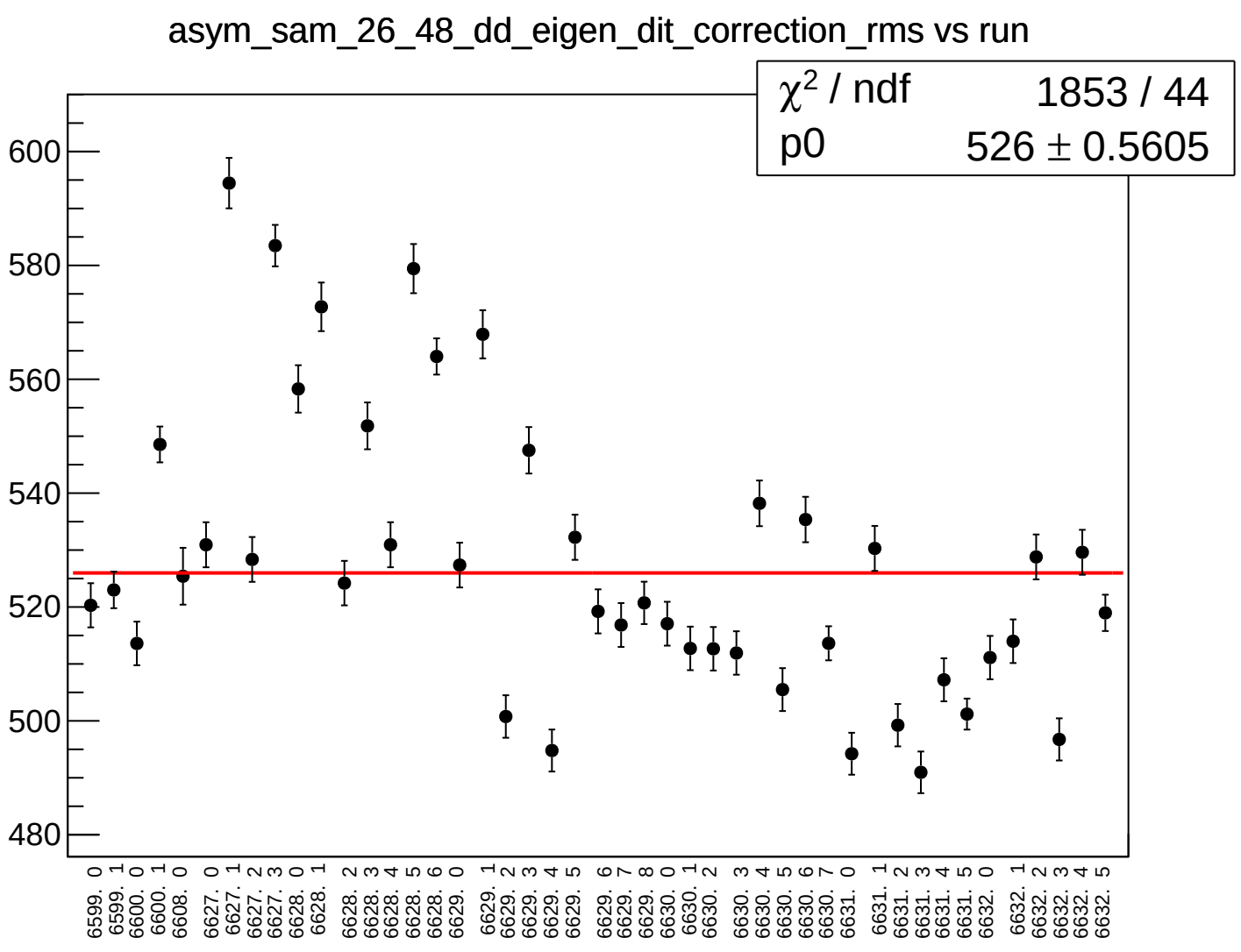
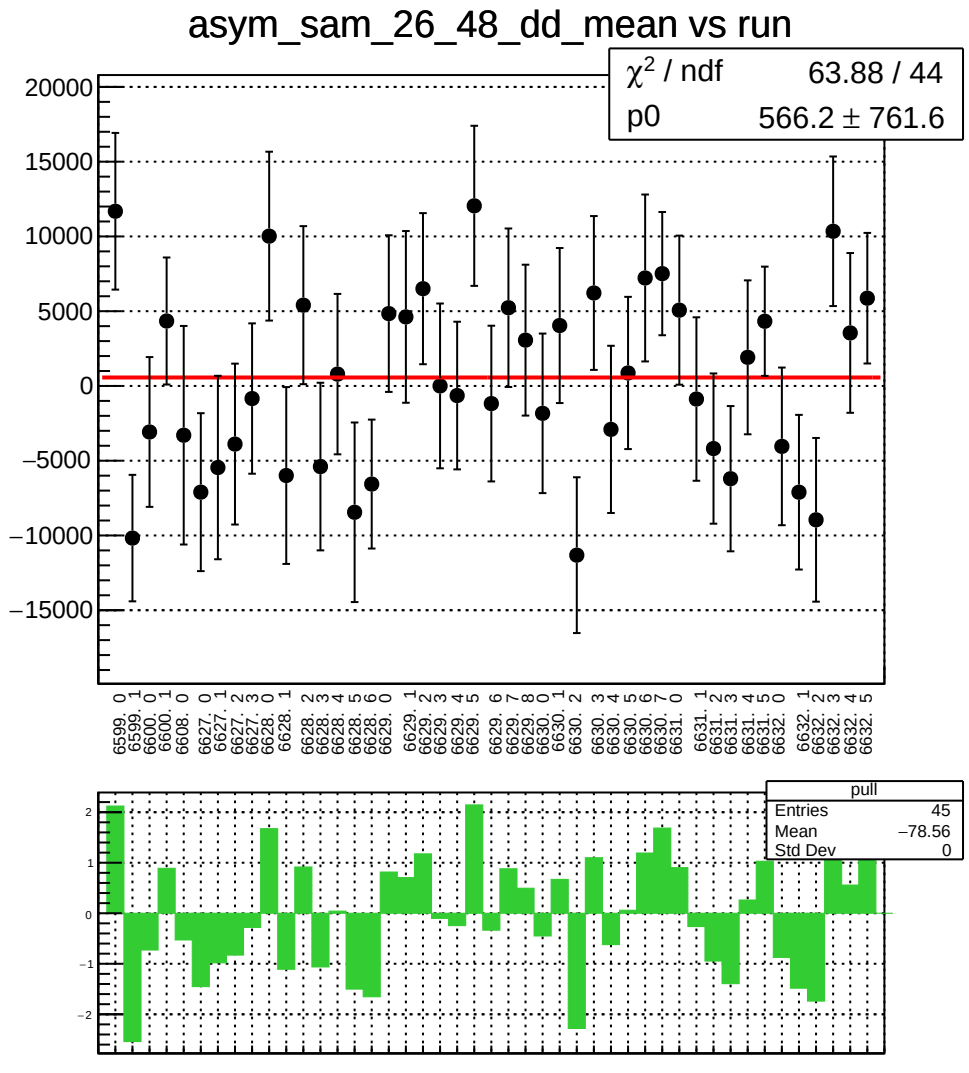
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 522.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

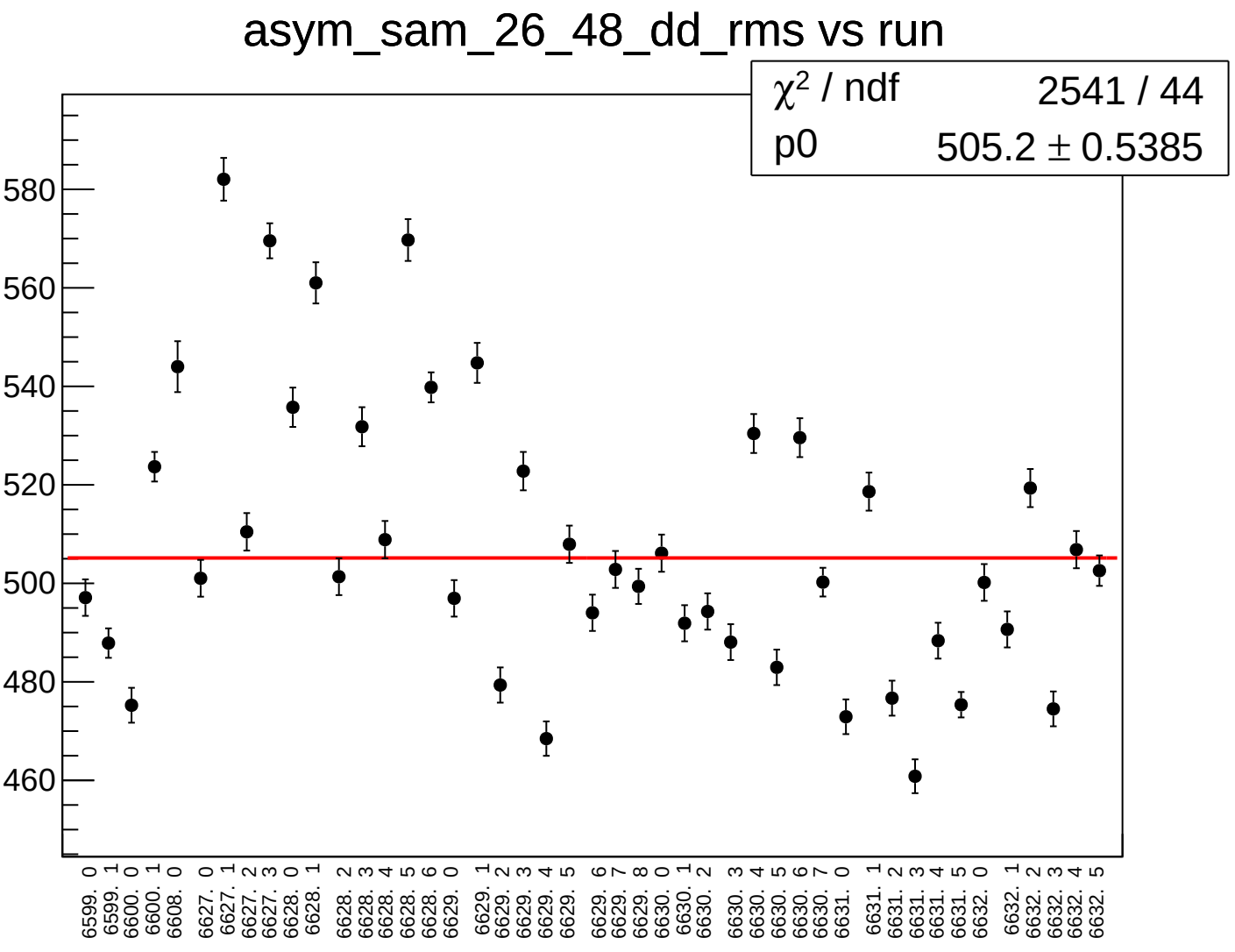

pull1D
Entries 45
Mean −0.005971
Std Dev 0.9901
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

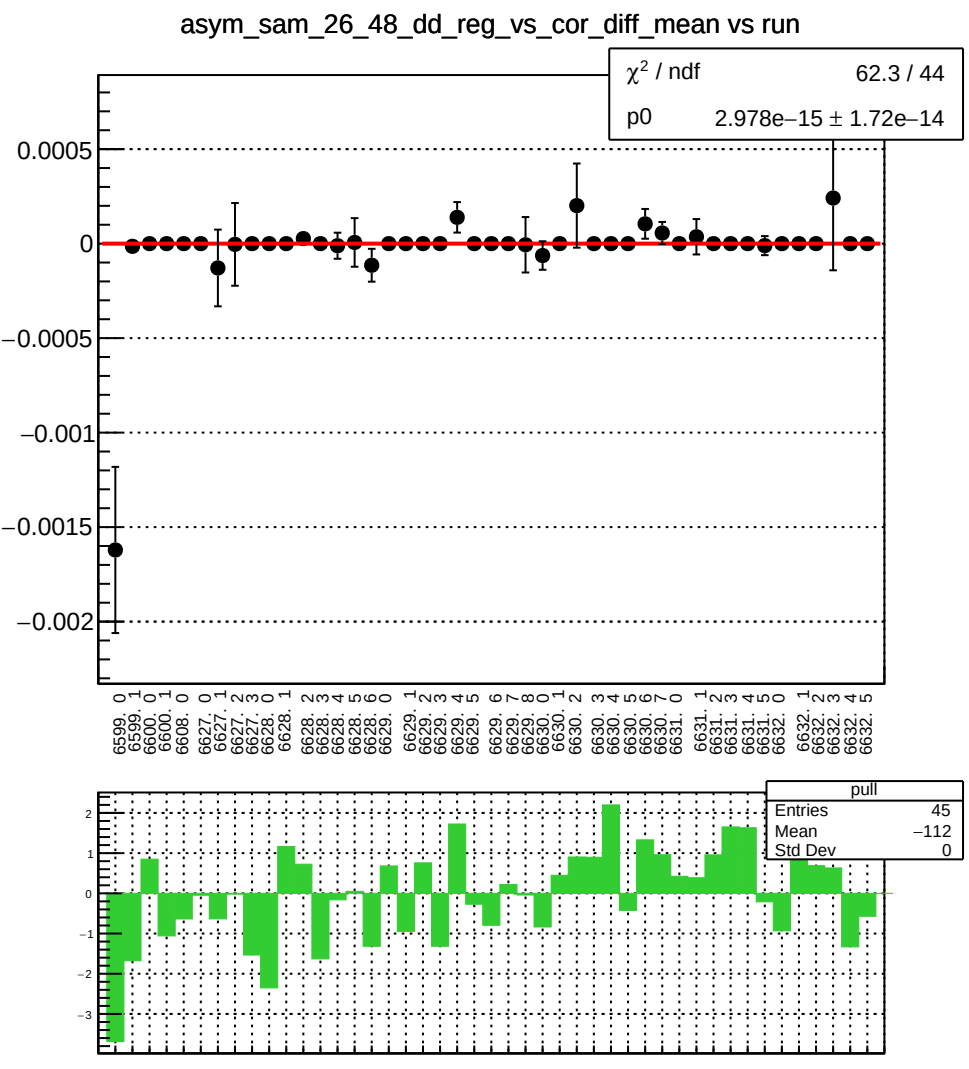

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 1068 / 44
p0 92.05 ± 0.09804
120
115
110
105
100
95
90
85
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

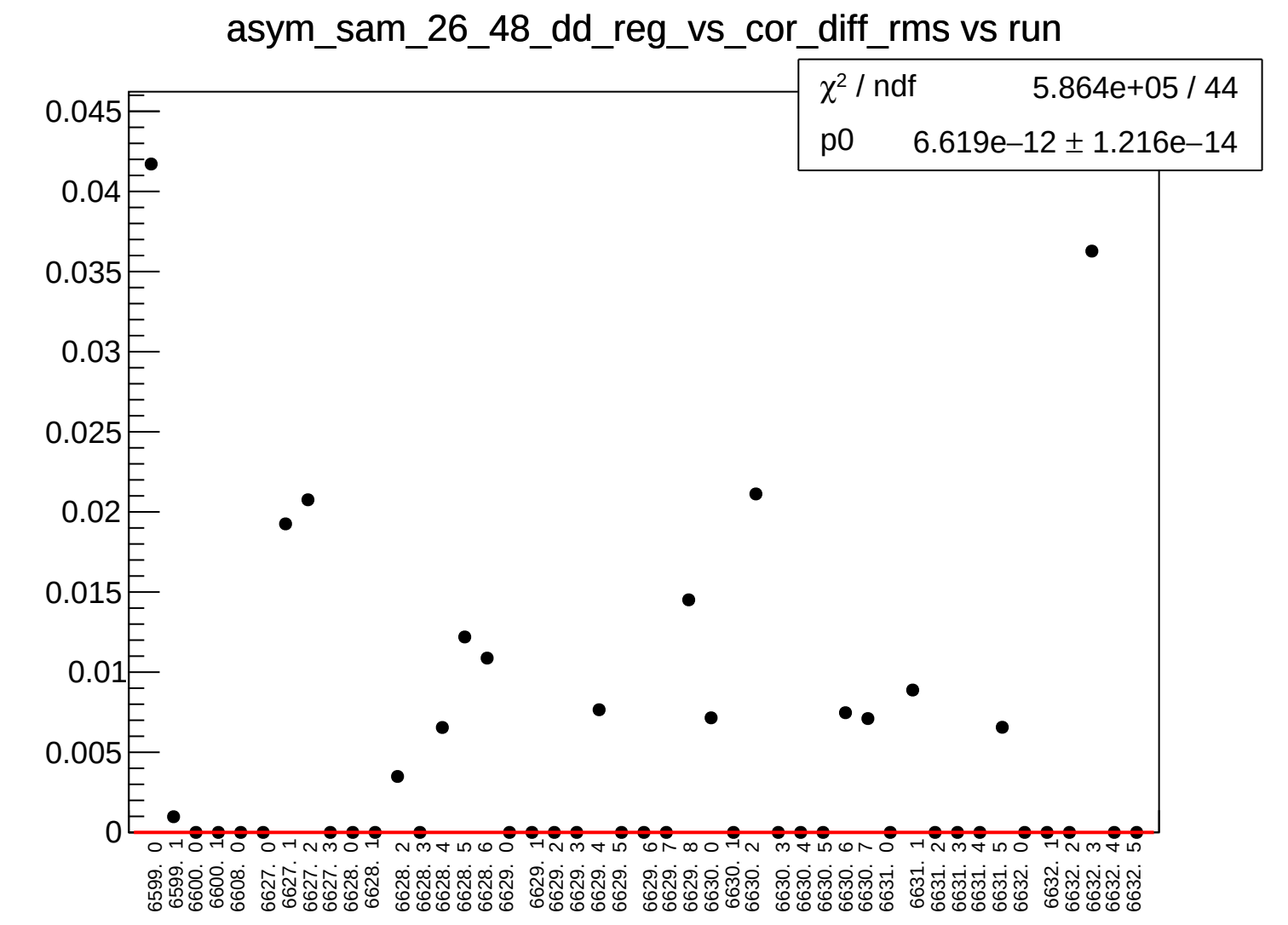

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 58.78 / 44
p0 −372.9 ± 792.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −101.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01981
Std Dev 1.143
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

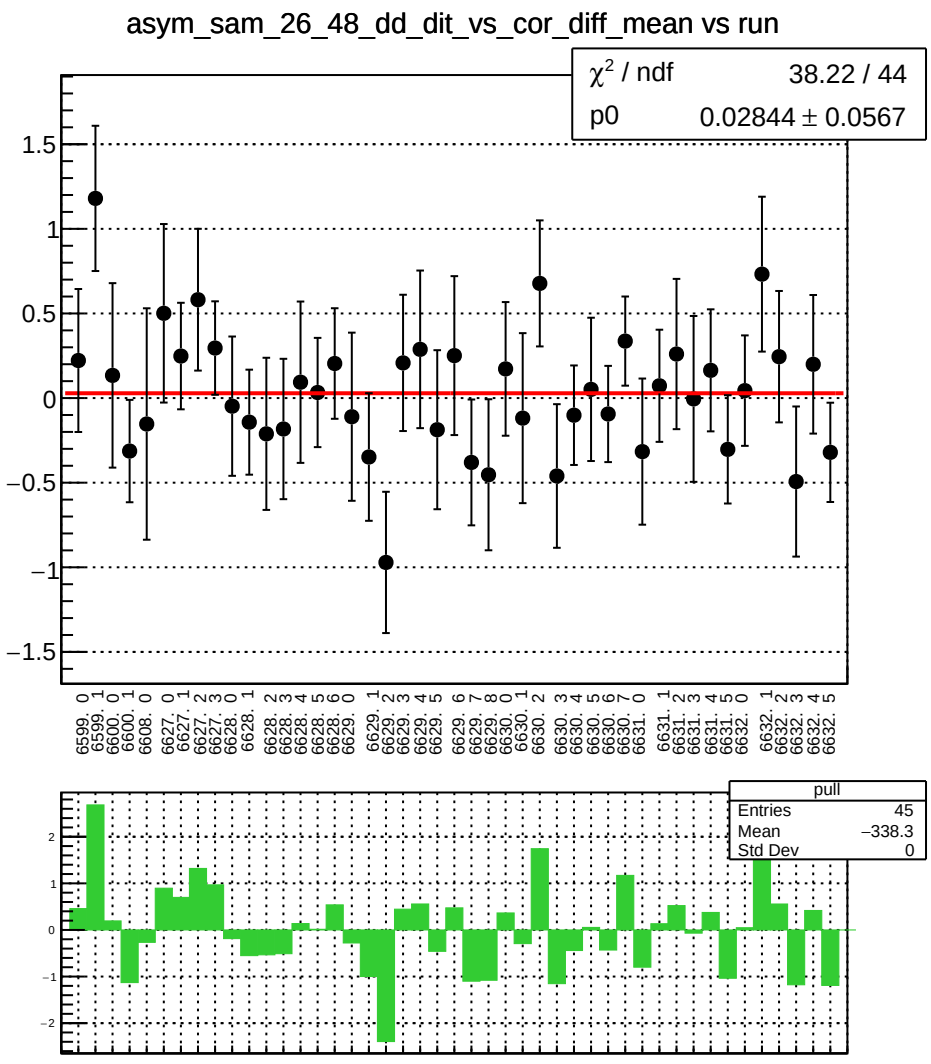

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1853 / 44
p0 526 ± 0.5605
600
580
560
540
520
500
480
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

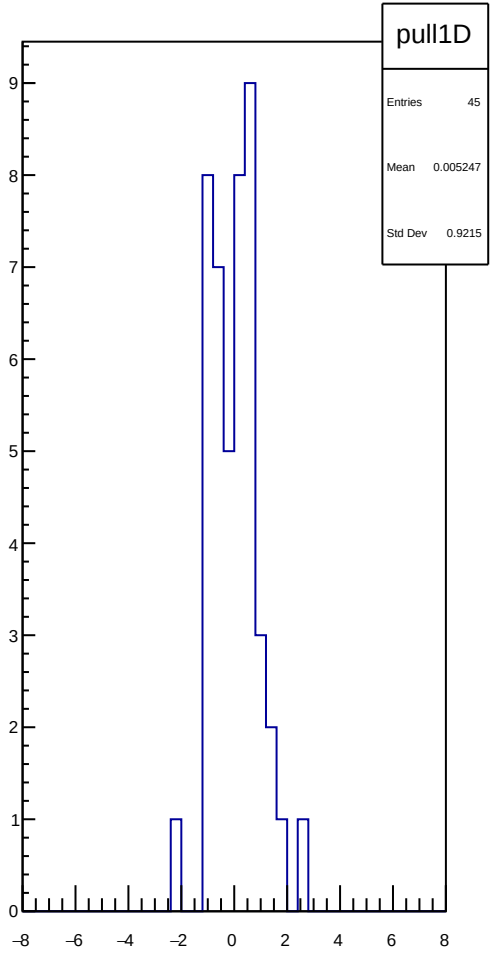

asym_sam_26_48_dd_mean vs run
χ² / ndf 63.88 / 44
p0 566.2 ± 761.6
20000
15000
10000
5000
0
−5000
−10000
−15000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −78.56
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02018
Std Dev 1.191
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

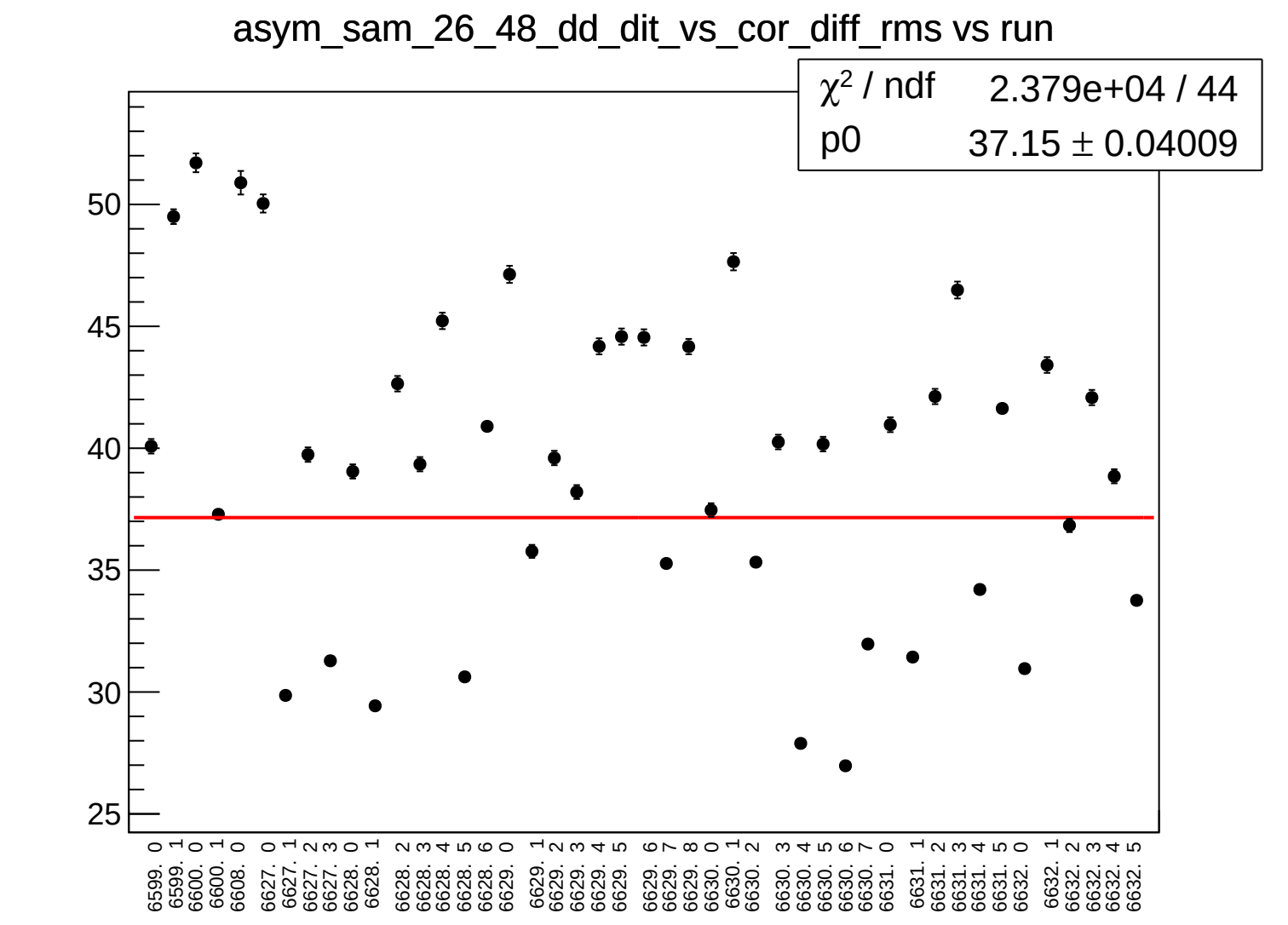

asym_sam_26_48_dd_rms vs run
χ² / ndf 2541 / 44
p0 505.2 ± 0.5385
580
560
540
520
500
480
460
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 62.3 / 44
p0 2.978e−15 ± 1.72e−14
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −112
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.04835
Std Dev 1.176
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

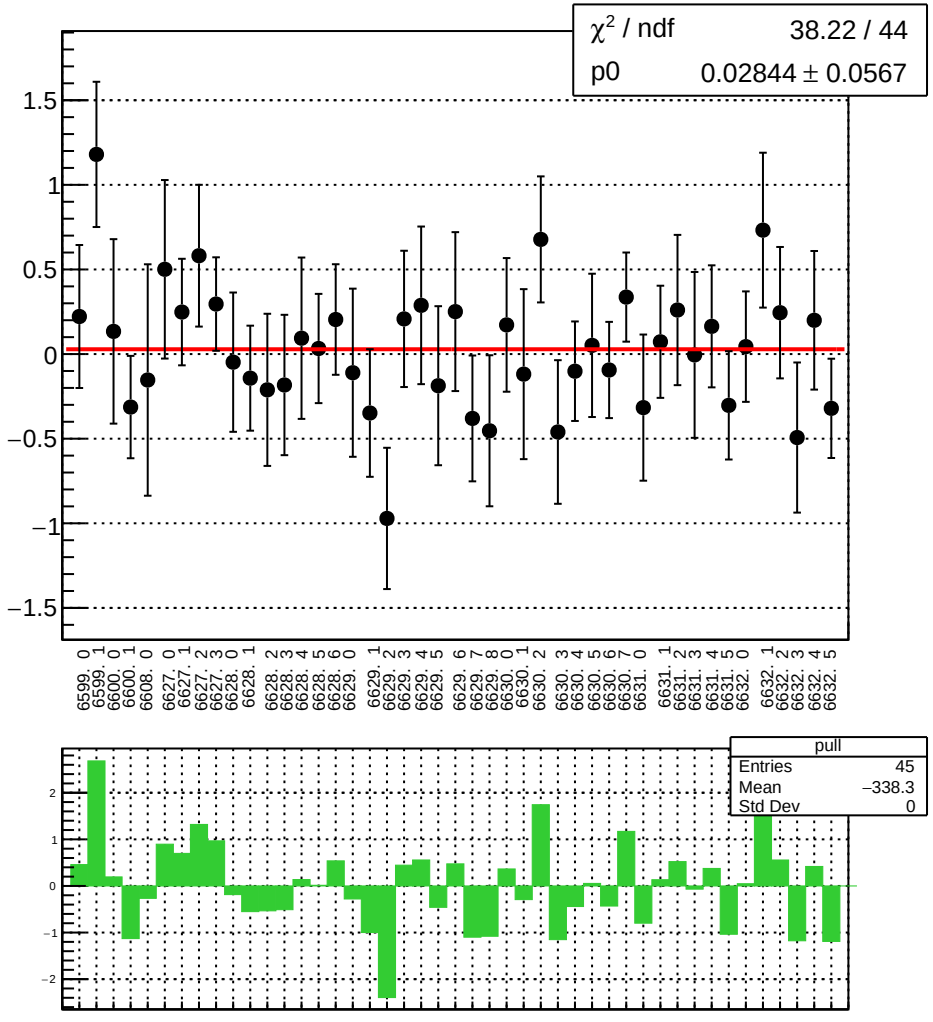

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.864e+05 / 44
p0 6.619e−12 ± 1.216e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

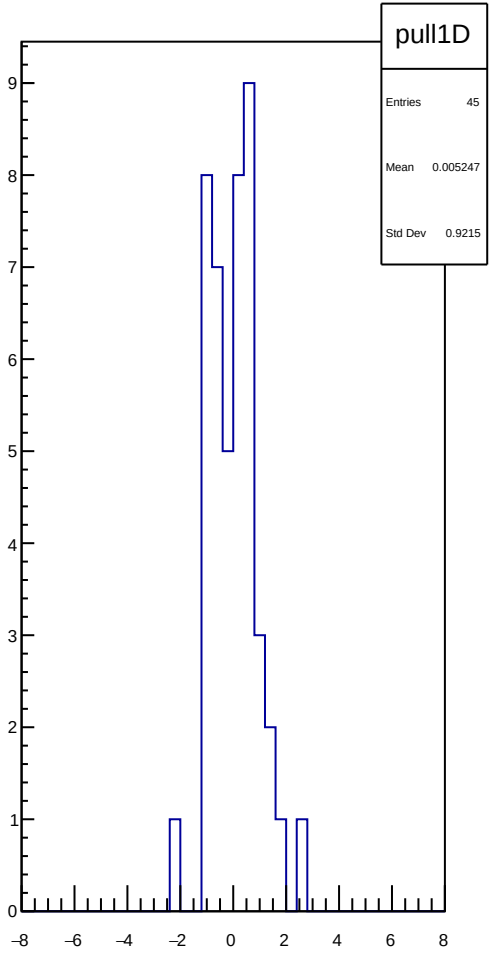

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 38.22 / 44
p0 0.02844 ± 0.0567
pull
Entries 45
Mean −338.3
Std Dev 0

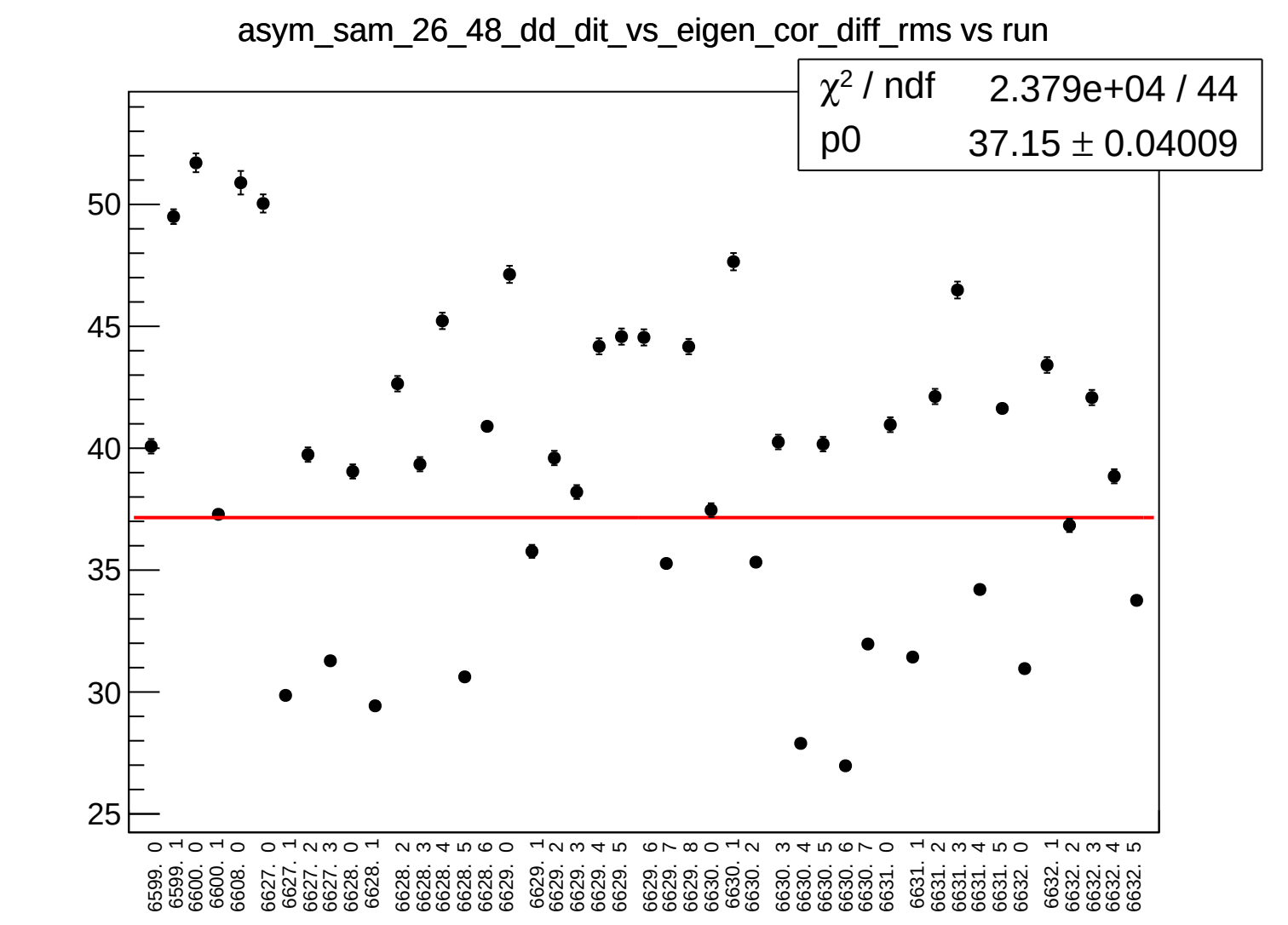

pull1D
Entries 45
Mean 0.005247
Std Dev 0.9215

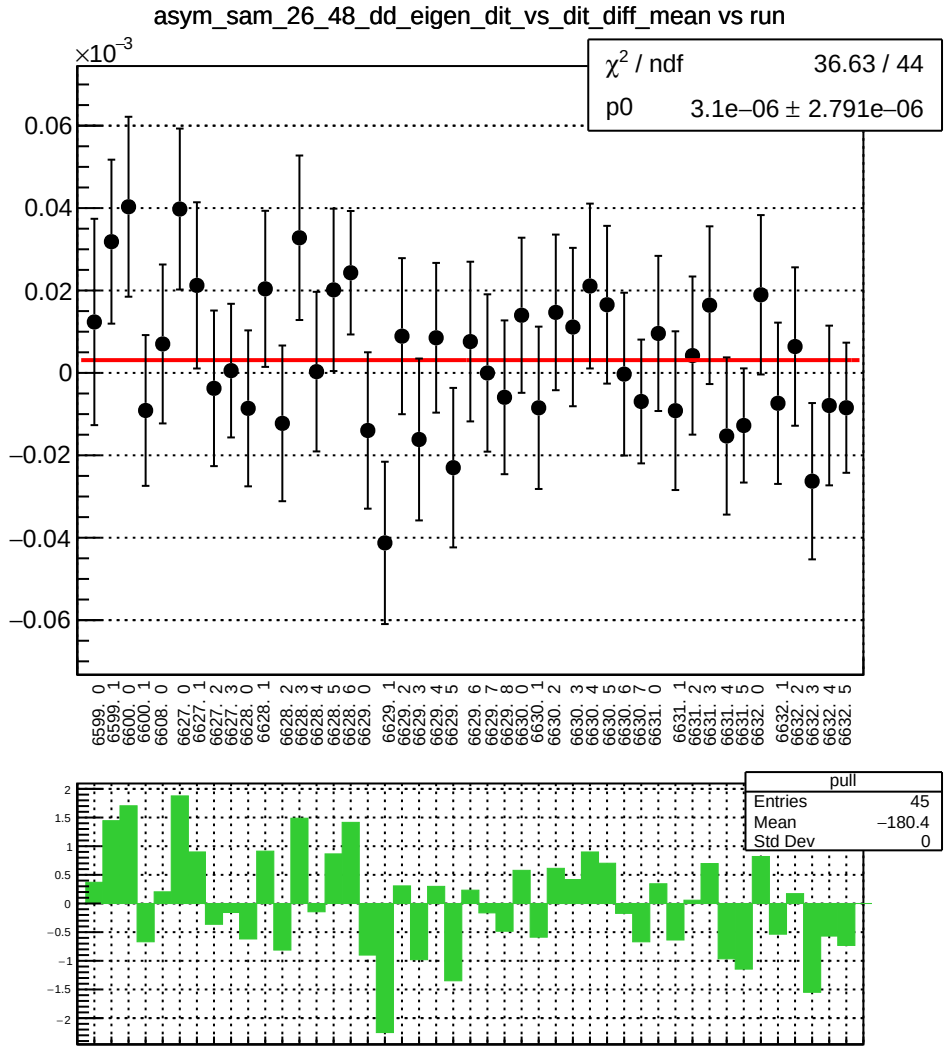

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.379e+04 / 44
p0 37.15 ± 0.04009
50
45
40
35
30
25
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

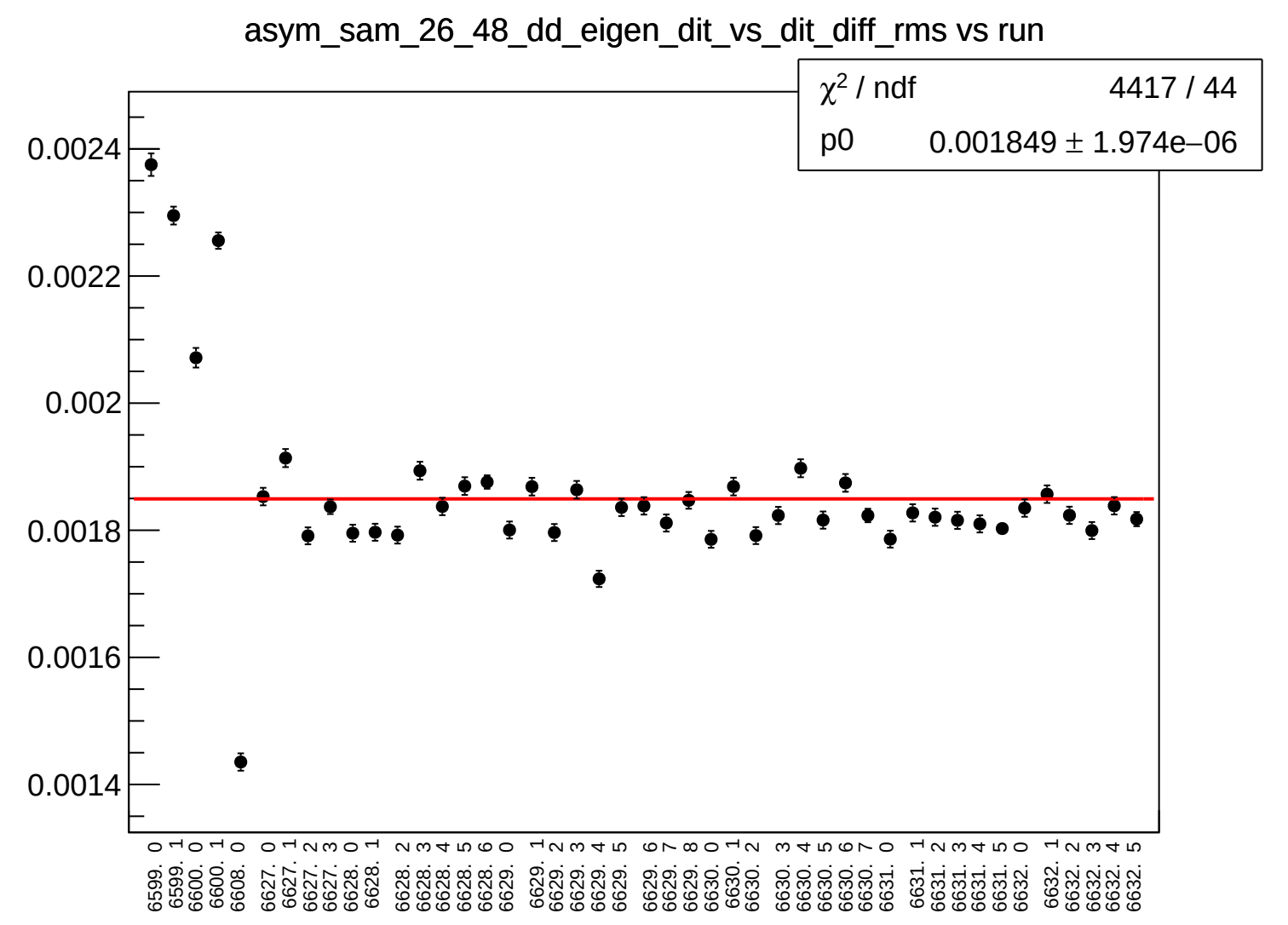
asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run

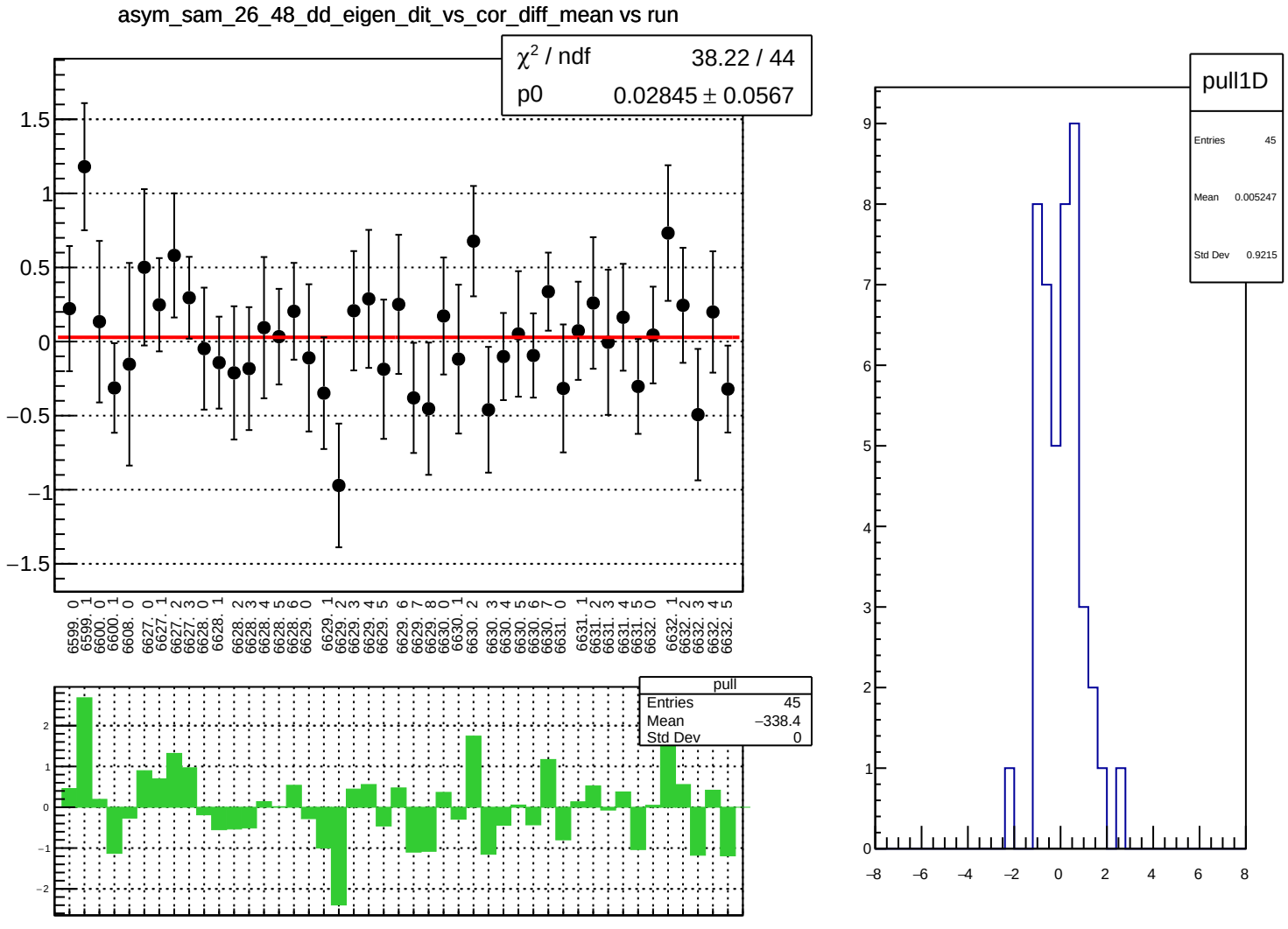


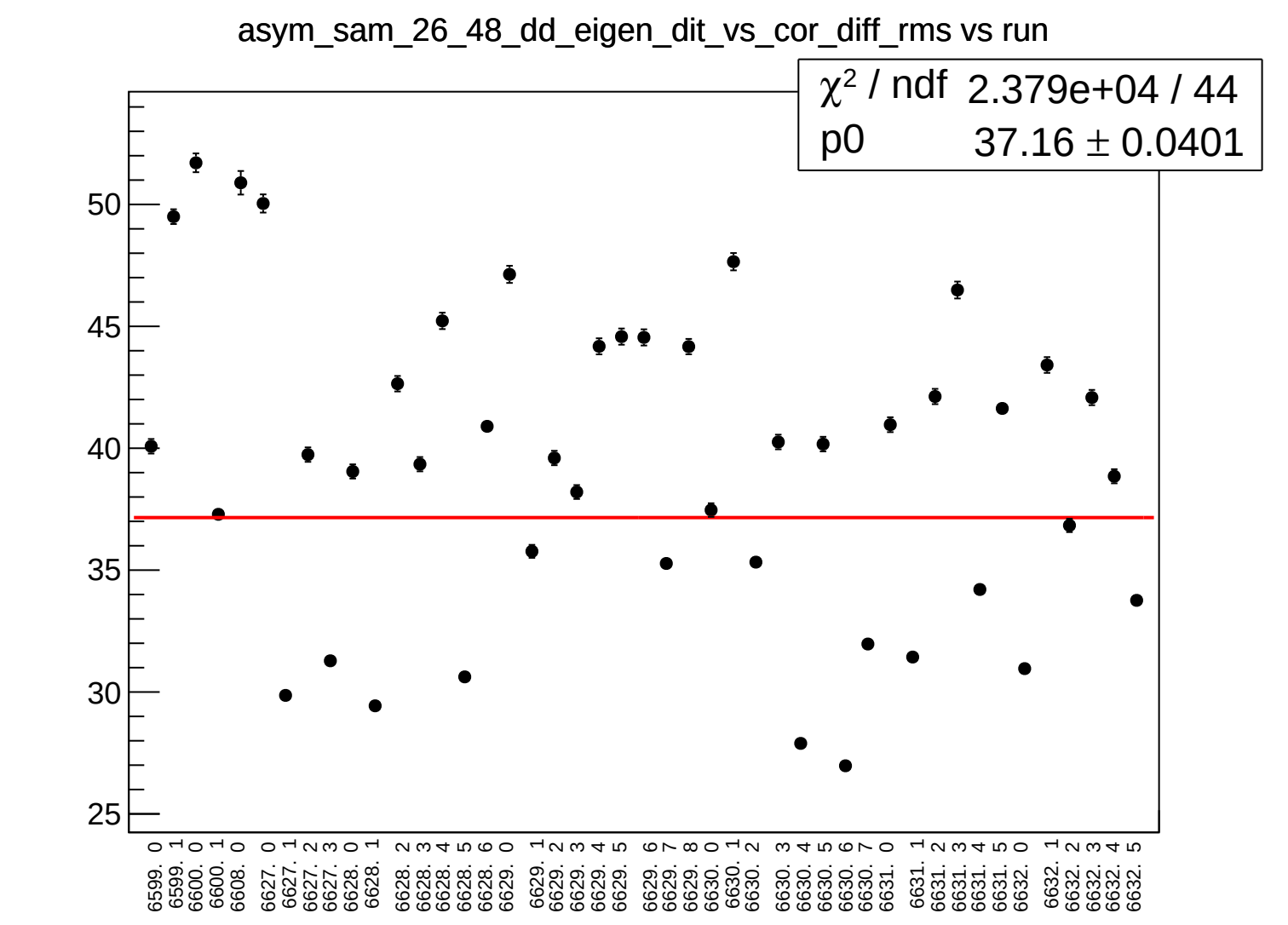



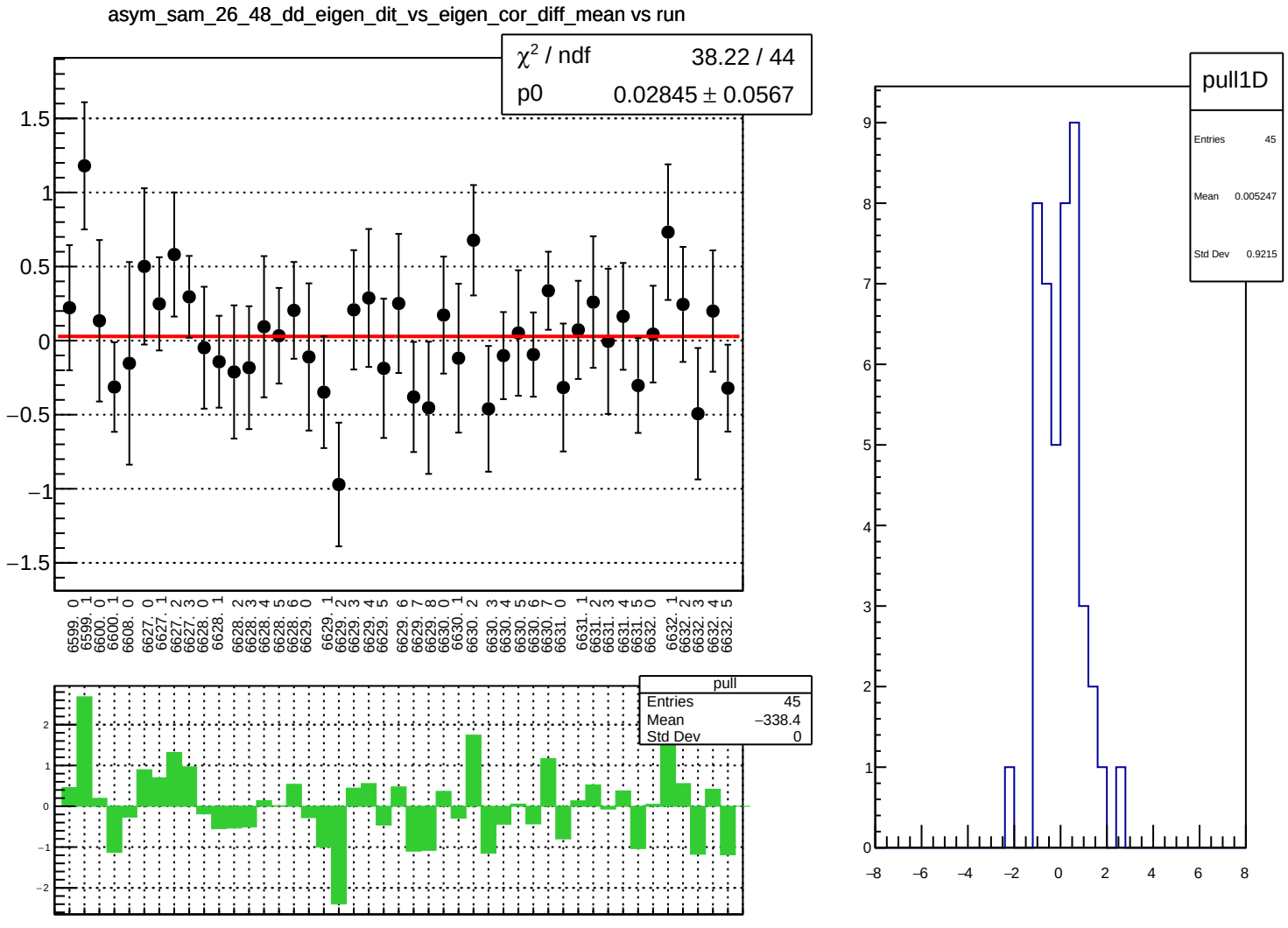

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.379e+04 / 44
p0 37.15 ± 0.04009
50
45
40
35
30
25
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

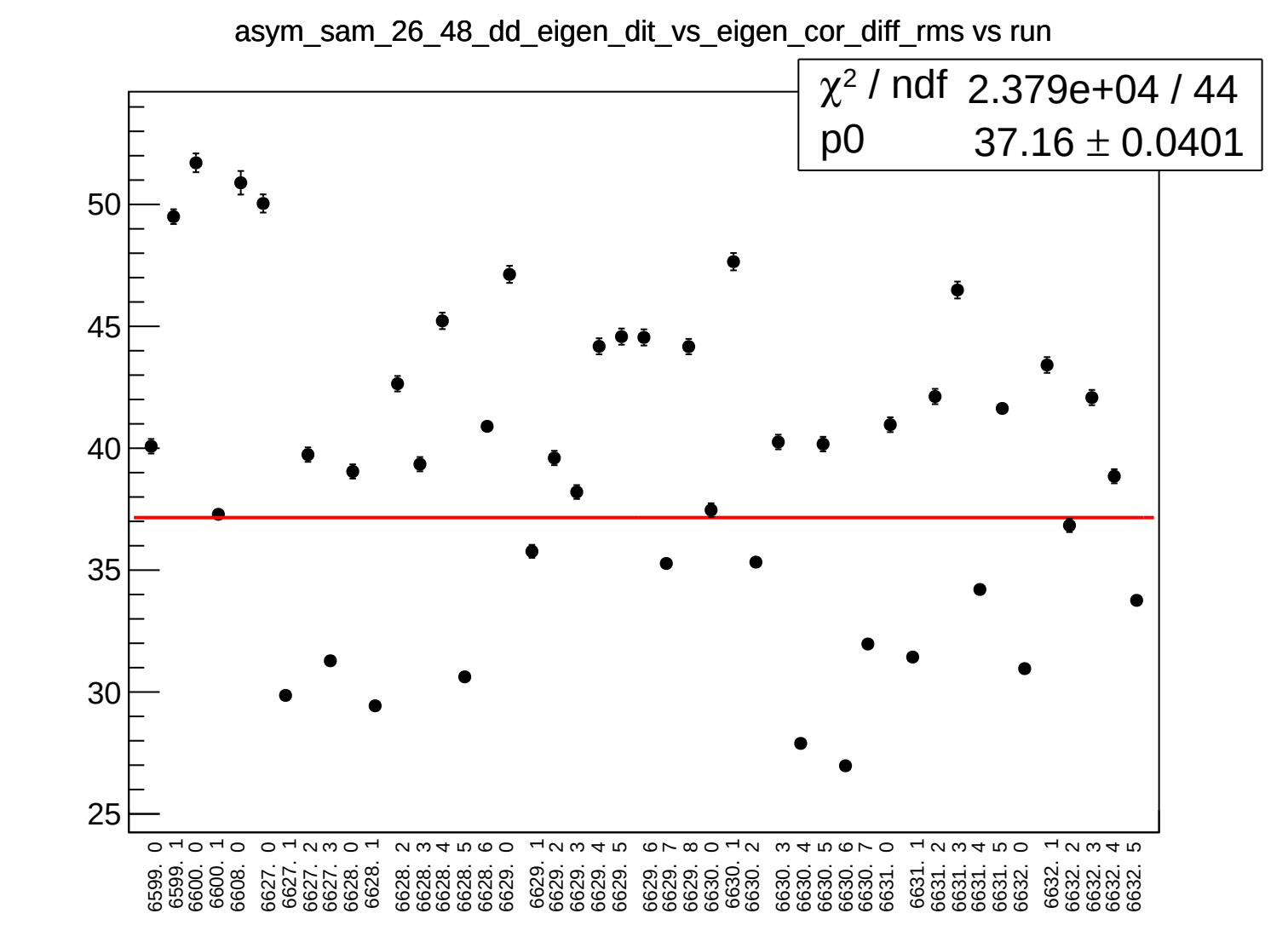

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 36.63 / 44
p0 3.1e−06 ± 2.791e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −180.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01944
Std Dev 0.9021
9
8
7
6
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 4417 / 44
p0 0.001849 ± 1.974e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 38.22 / 44
p0 0.02845 ± 0.0567
pull
Entries 45
Mean −338.4
Std Dev 0
pull1D
Entries 45
Mean 0.005247
Std Dev 0.9215


asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.379e+04 / 44
p0 37.16 ± 0.0401
50
45
40
35
30
25
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.22 / 44
p0 0.02845 ± 0.0567
pull
Entries 45
Mean −338.4
Std Dev 0
pull1D
Entries 45
Mean 0.005247
Std Dev 0.9215


asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.379e+04 / 44
p0 37.16 ± 0.0401
50
45
40
35
30
25
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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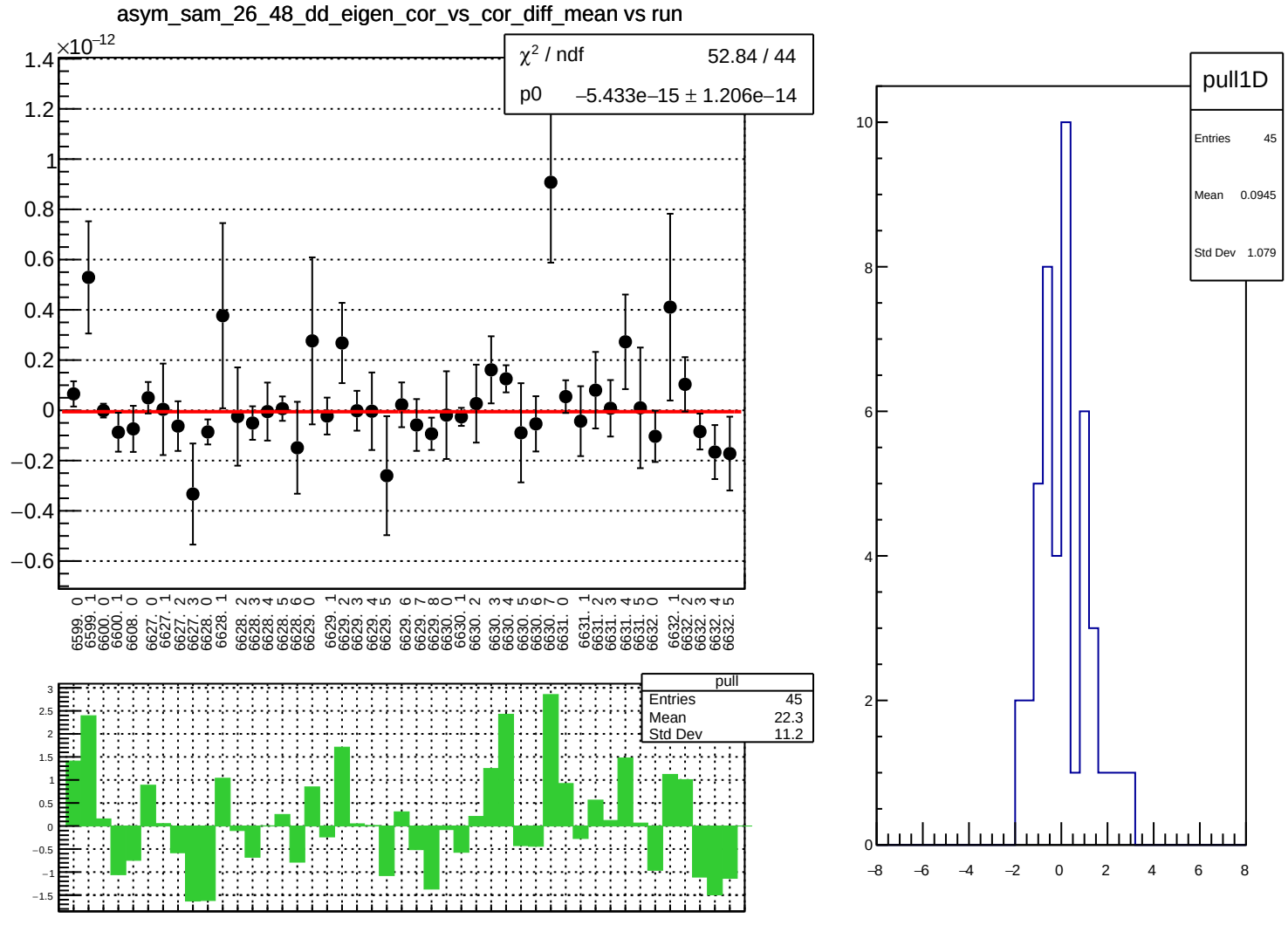
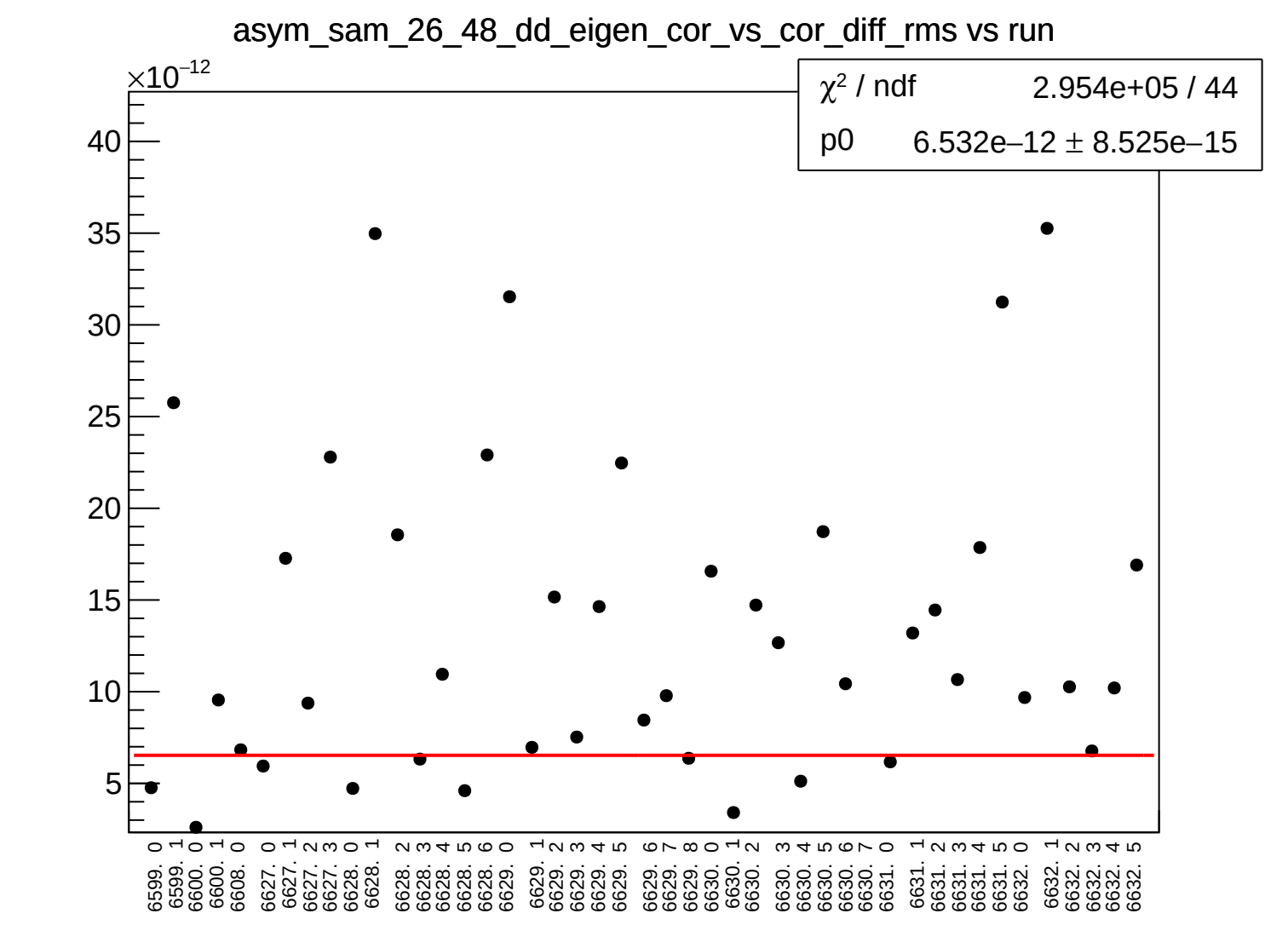
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 52.84 / 44
p0 −5.433e−15 ± 1.206e−14
pull
Entries 45
Mean 22.3
Std Dev 11.2
pull1D
Entries 45
Mean 0.0945
Std Dev 1.079


asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.954e+05 / 44
p0 6.532e−12 ± 8.525e−15
40
35
30
25
20
15
10
5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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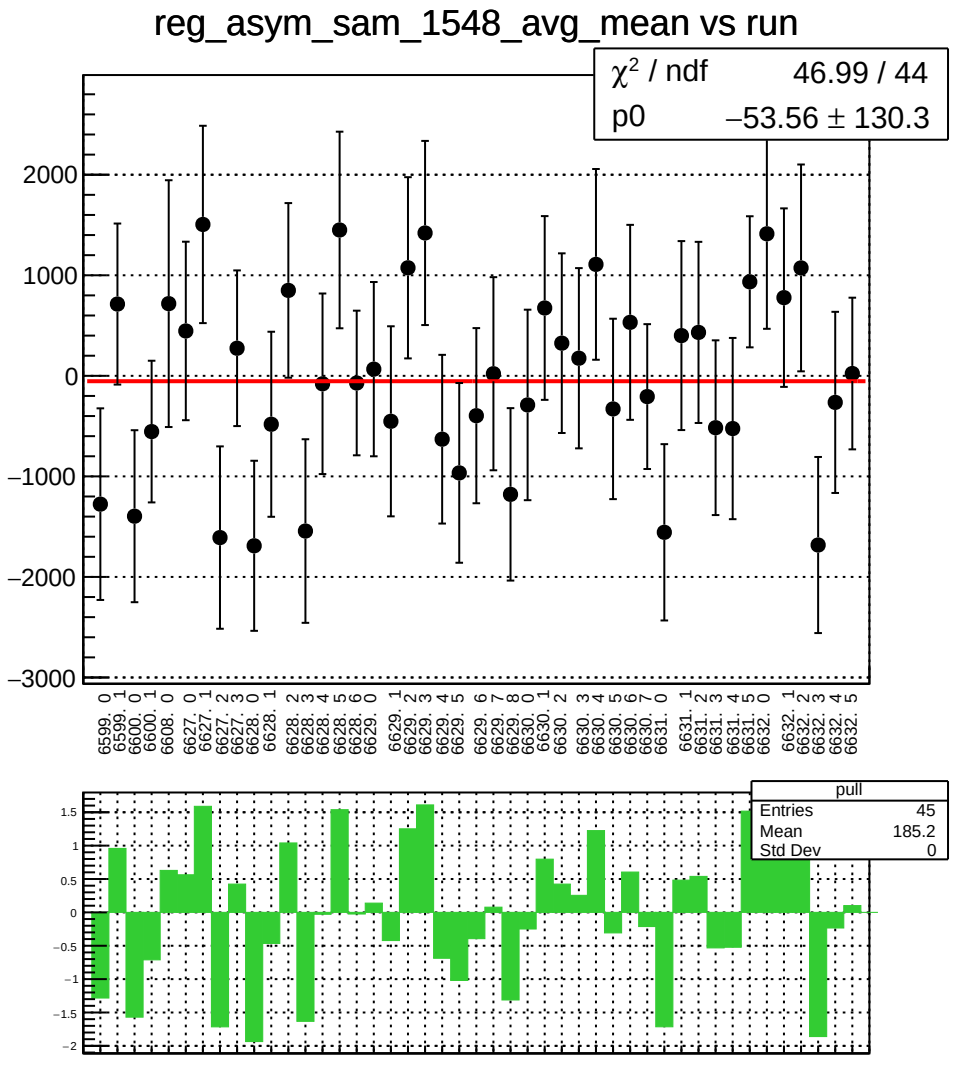
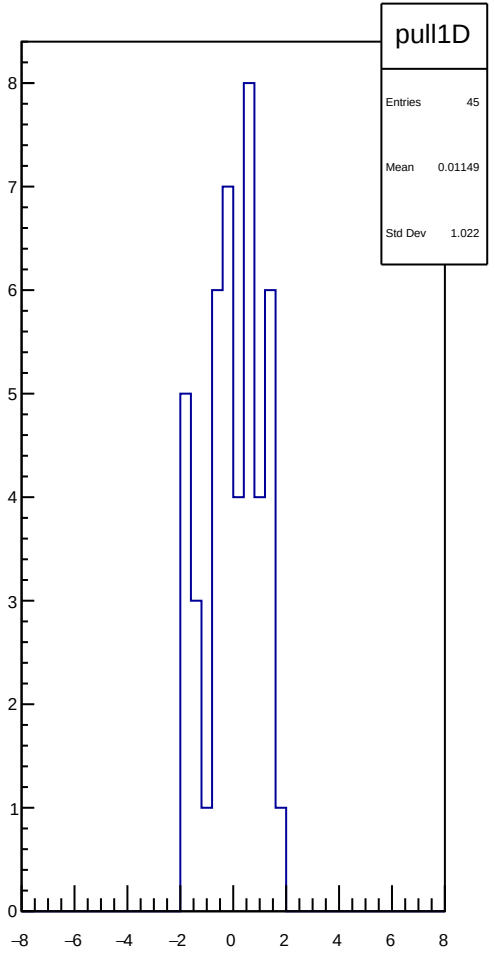
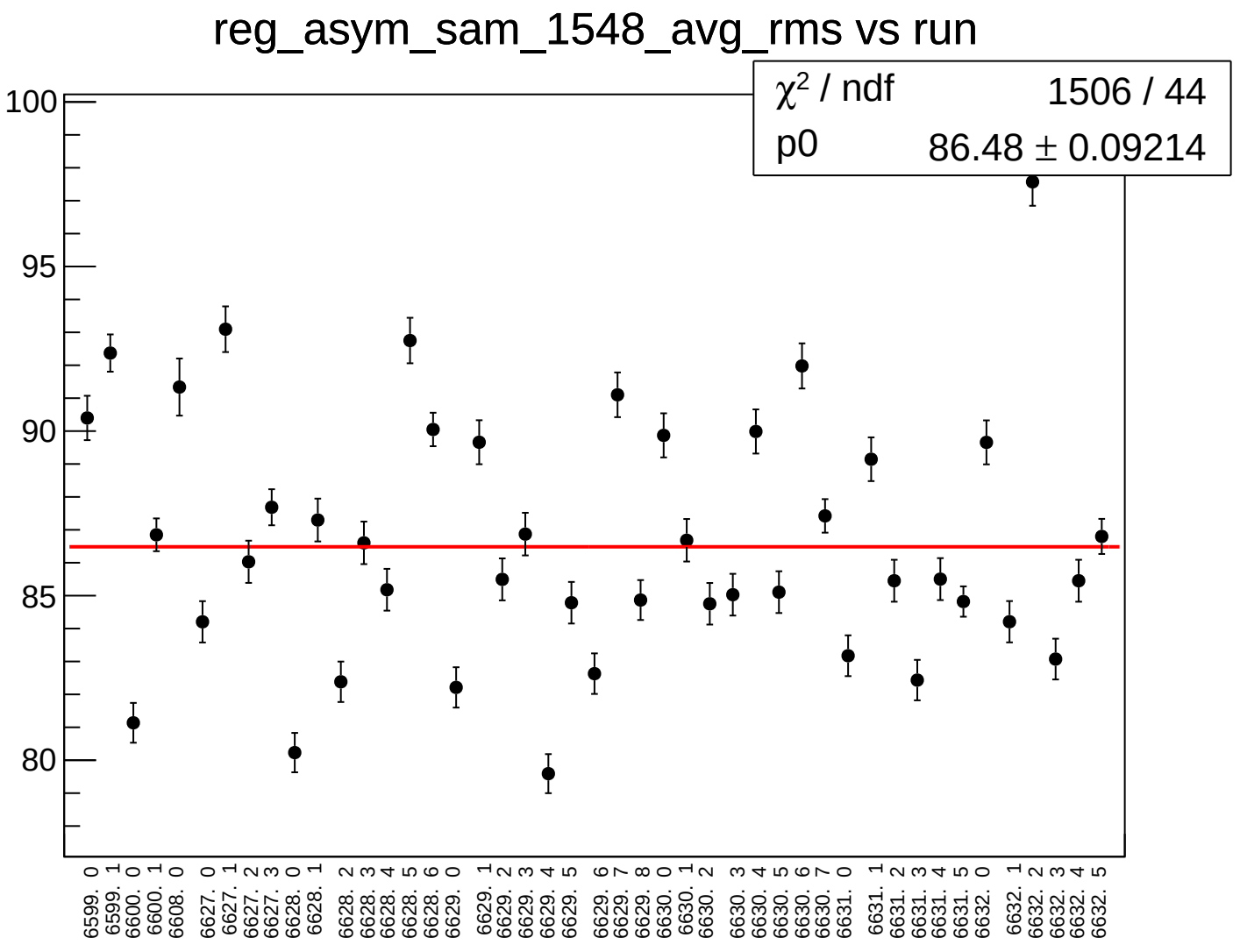
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


reg_asym_sam_1548_avg_mean vs run
χ² / ndf 46.99 / 44
p0 −53.56 ± 130.3
2000
1000
0
−1000
−2000
−3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 185.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.01149
Std Dev 1.022
8
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 1506 / 44
p0 86.48 ± 0.09214
100
95
90
85
80
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
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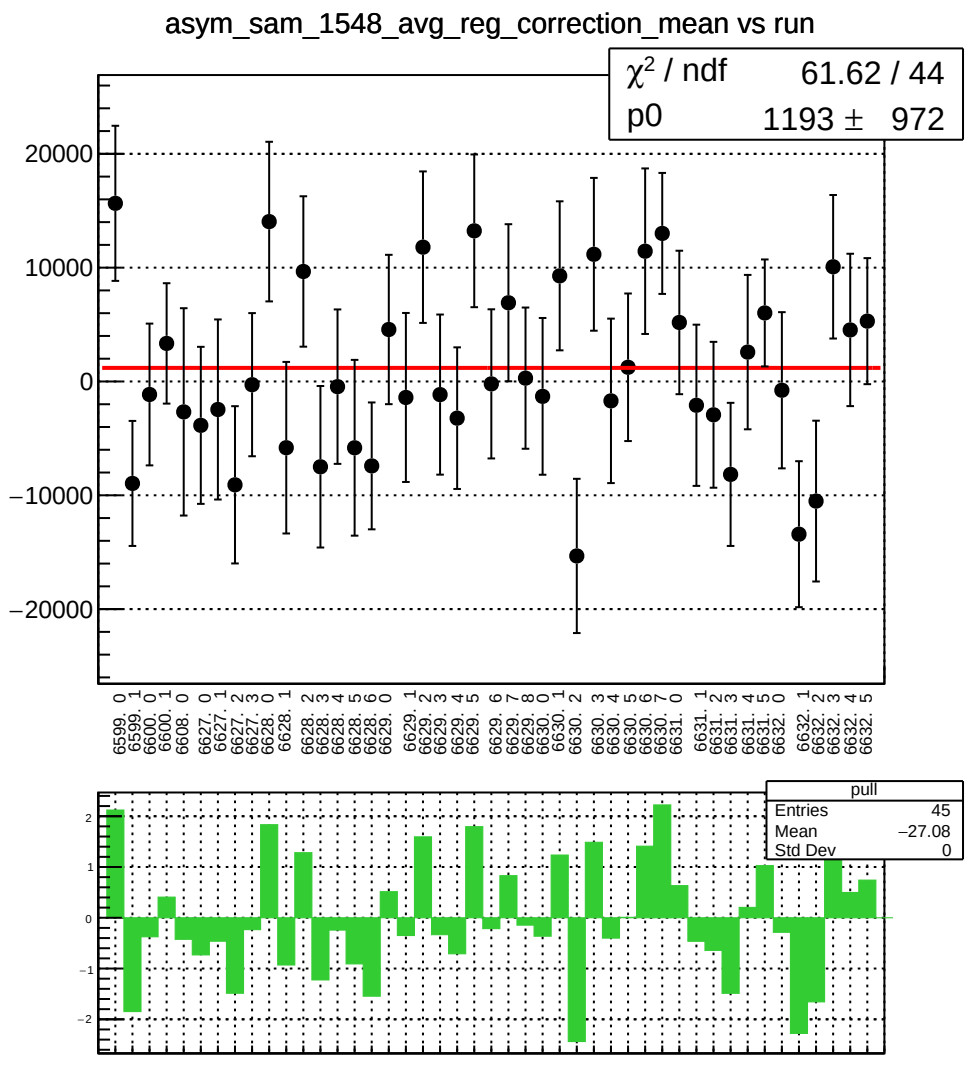
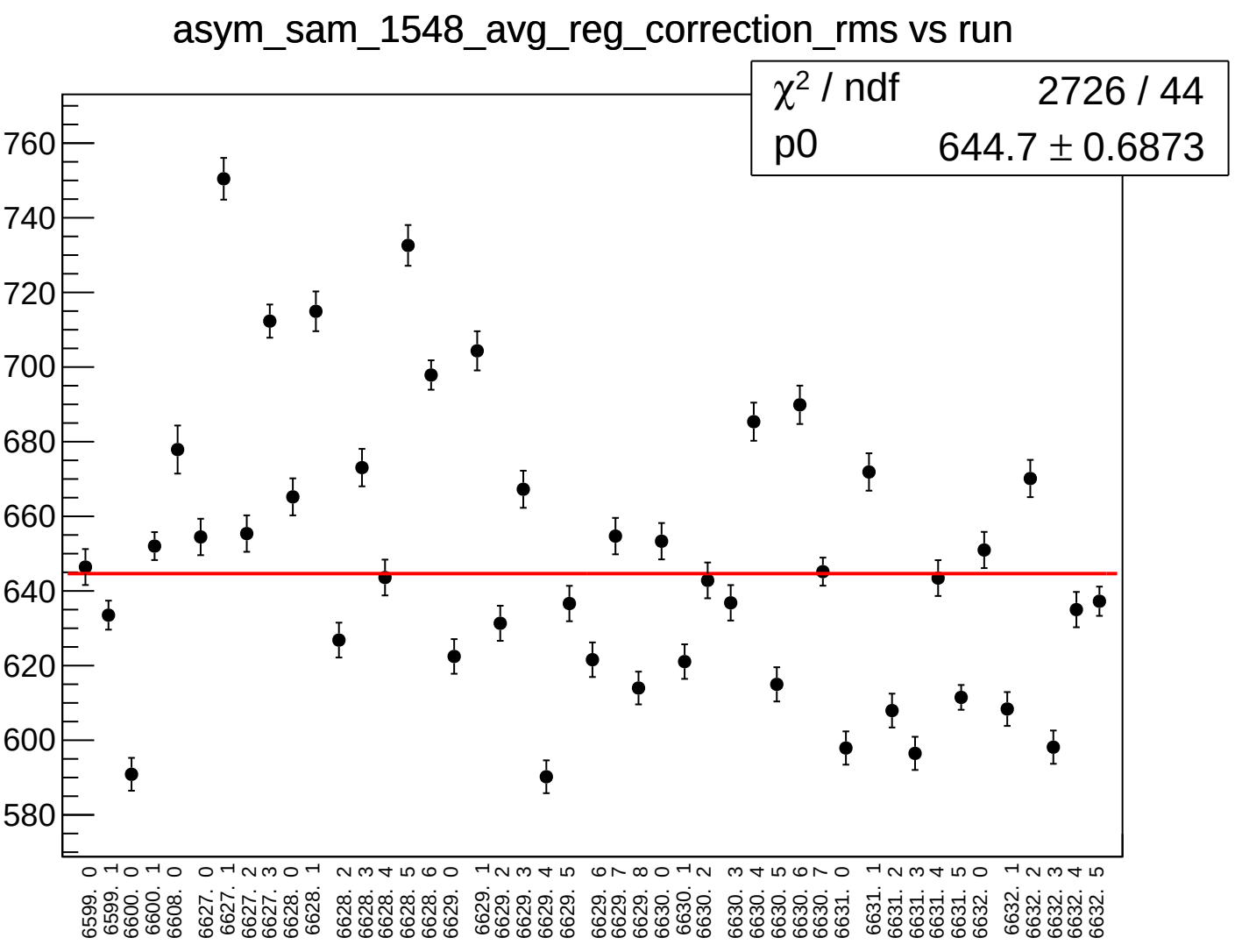
6632. 4
6632. 5


asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 61.62 / 44
p0 1193 ± 972
20000
10000
0
−10000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −27.08
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02072
Std Dev 1.17
9
8
7
6
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 2726 / 44
p0 644.7 ± 0.6873
760
740
720
700
680
660
640
620
600
580
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
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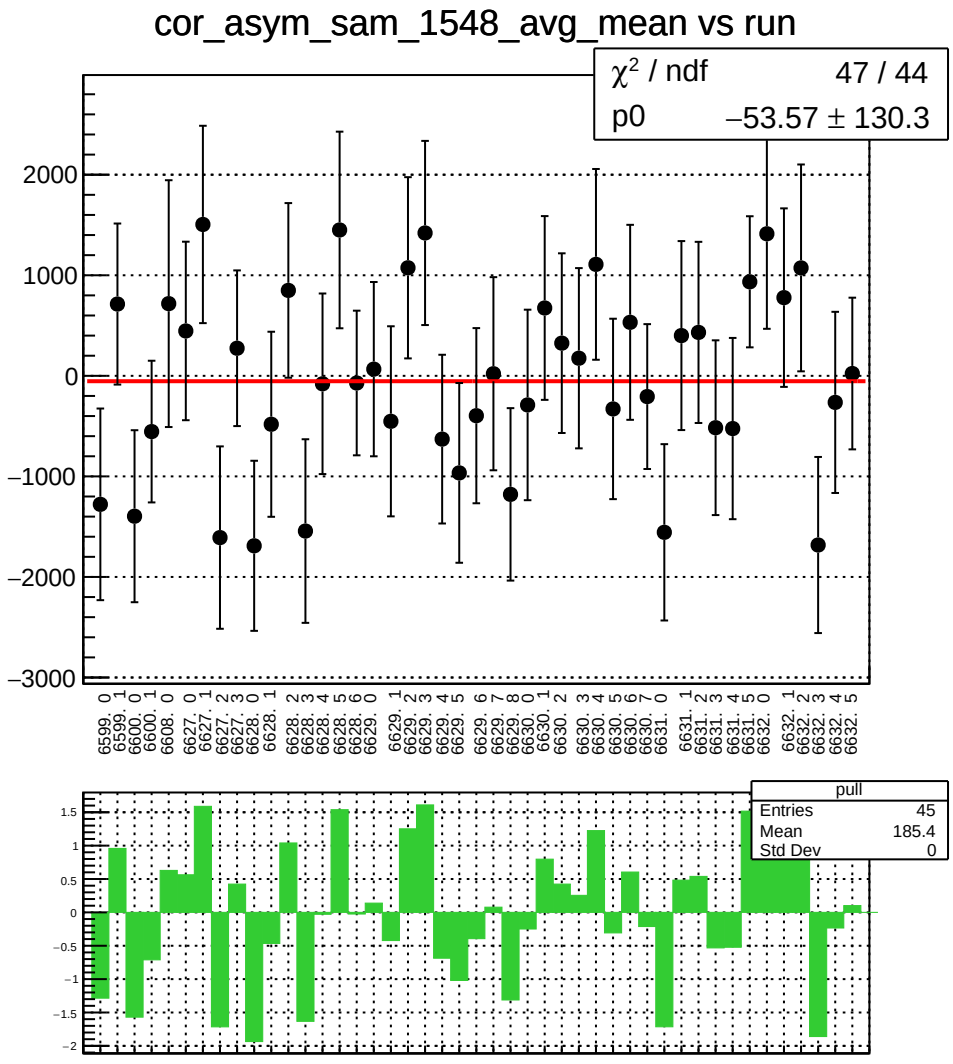
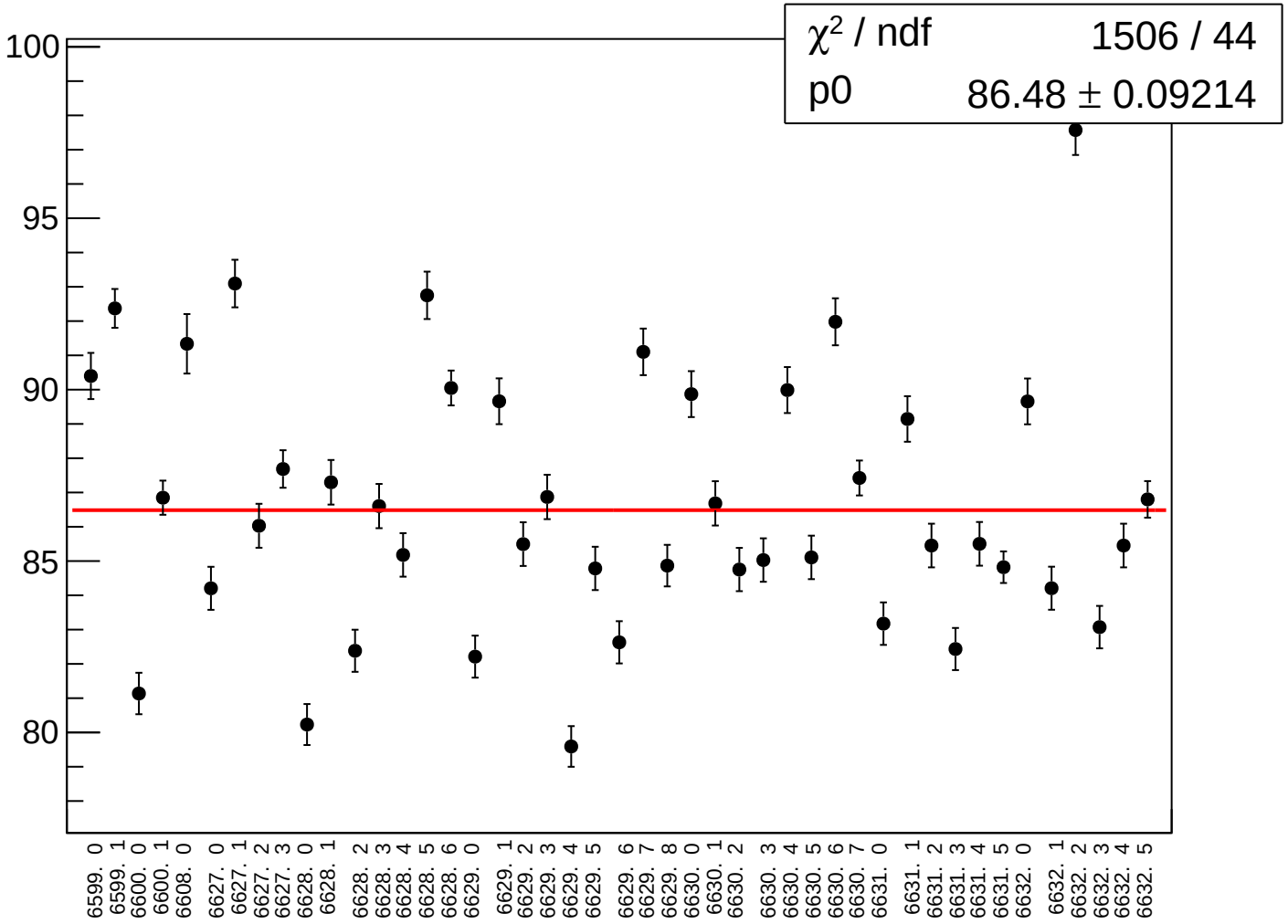
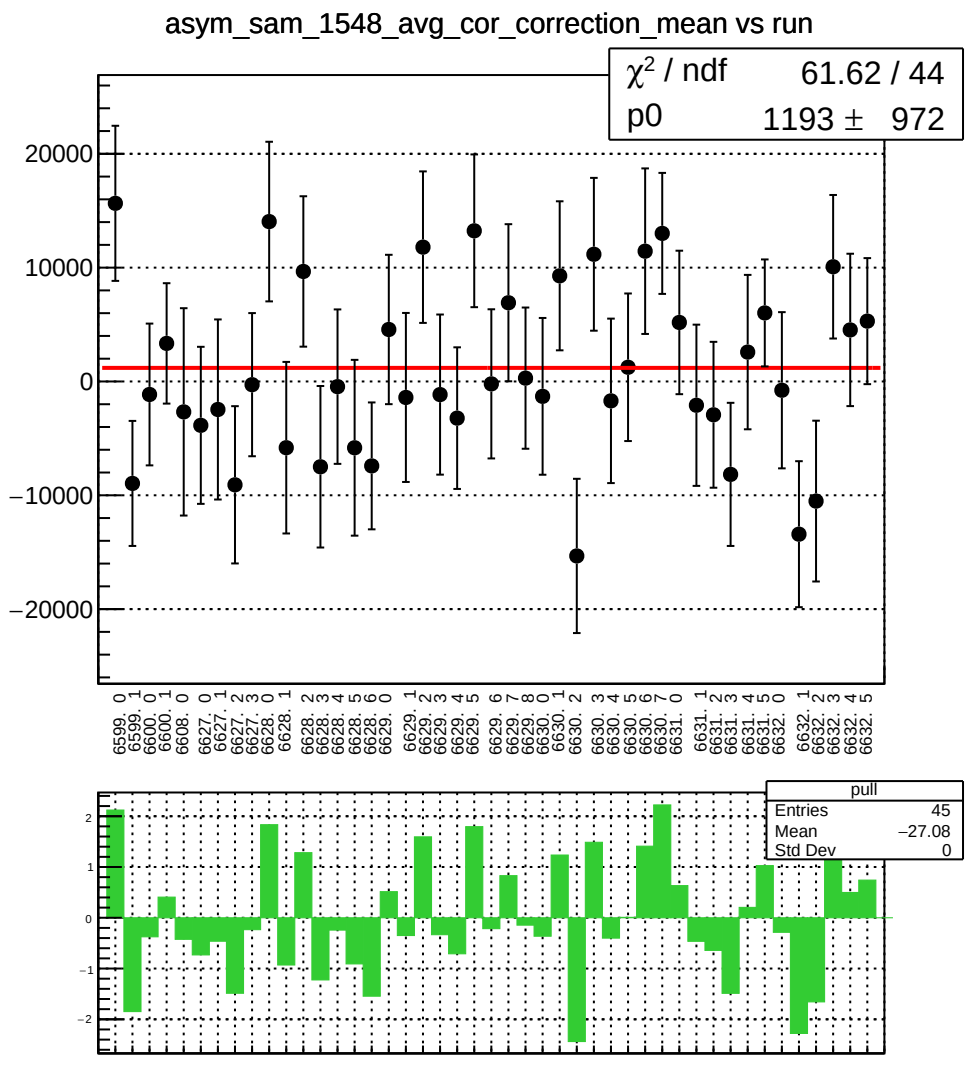
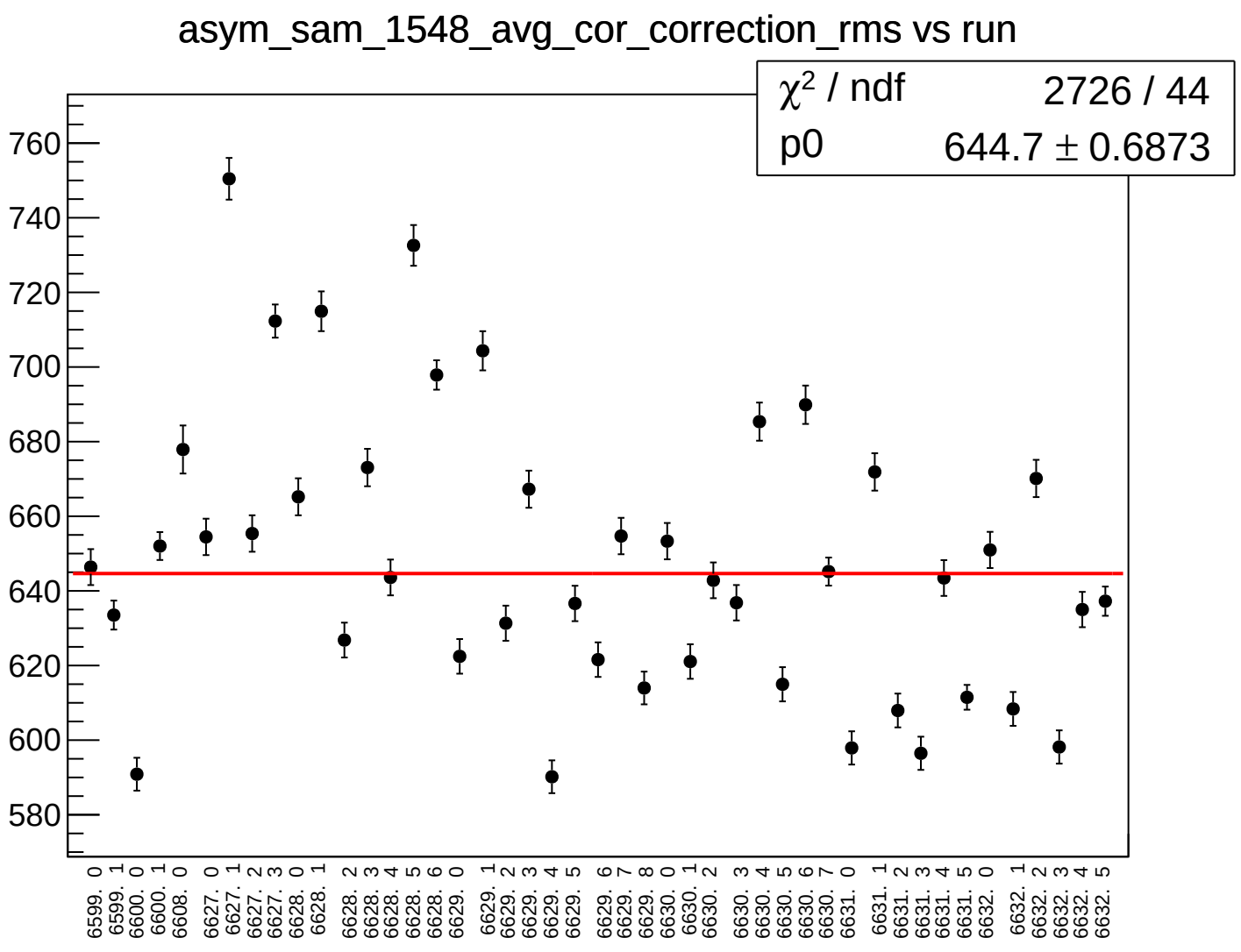
6632. 4
6632. 5


cor_asym_sam_1548_avg_mean vs run
χ² / ndf 47 / 44
p0 −53.57 ± 130.3
pull
Entries 45
Mean 185.4
Std Dev 0
pull1D
Entries 45
Mean 0.01149
Std Dev 1.022


cor_asym_sam_1548_avg_rms vs run
χ² / ndf 1506 / 44
p0 86.48 ± 0.09214
100
95
90
85
80
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 61.62 / 44
p0 1193 ± 972
20000
10000
0
−10000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −27.08
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02072
Std Dev 1.17
9
8
7
6
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 2726 / 44
p0 644.7 ± 0.6873
760
740
720
700
680
660
640
620
600
580
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
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6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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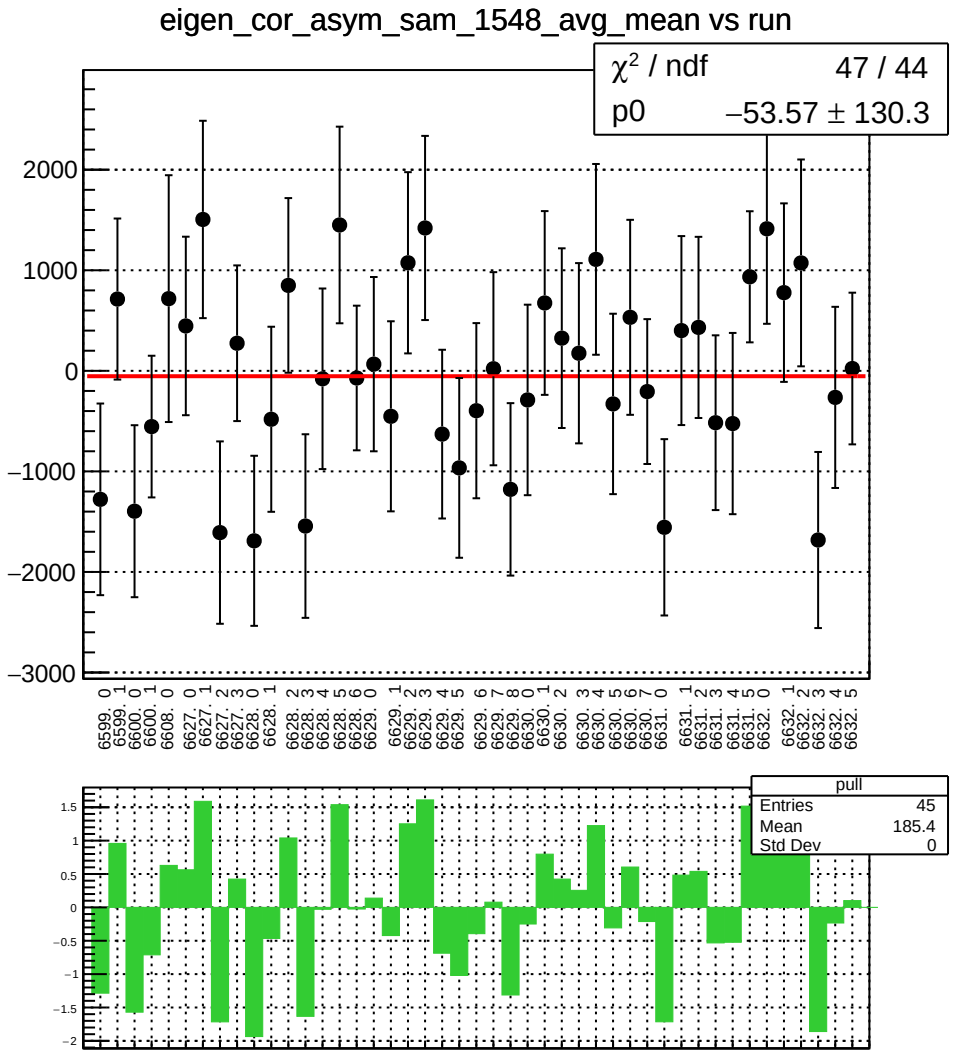
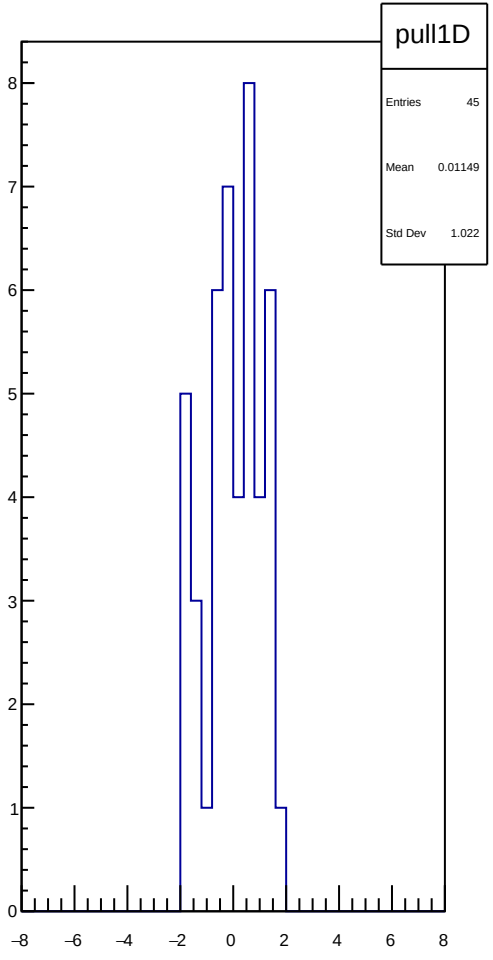
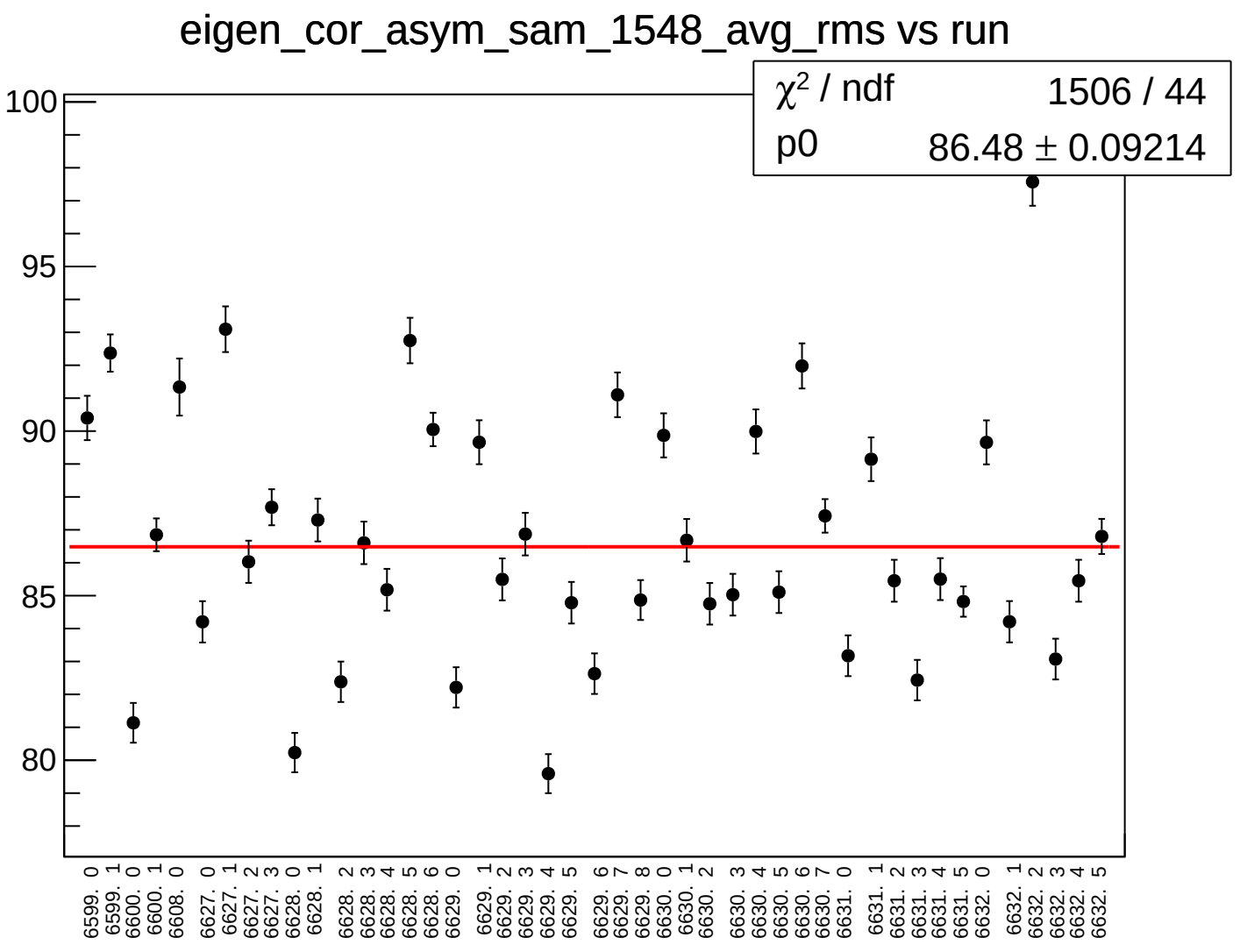
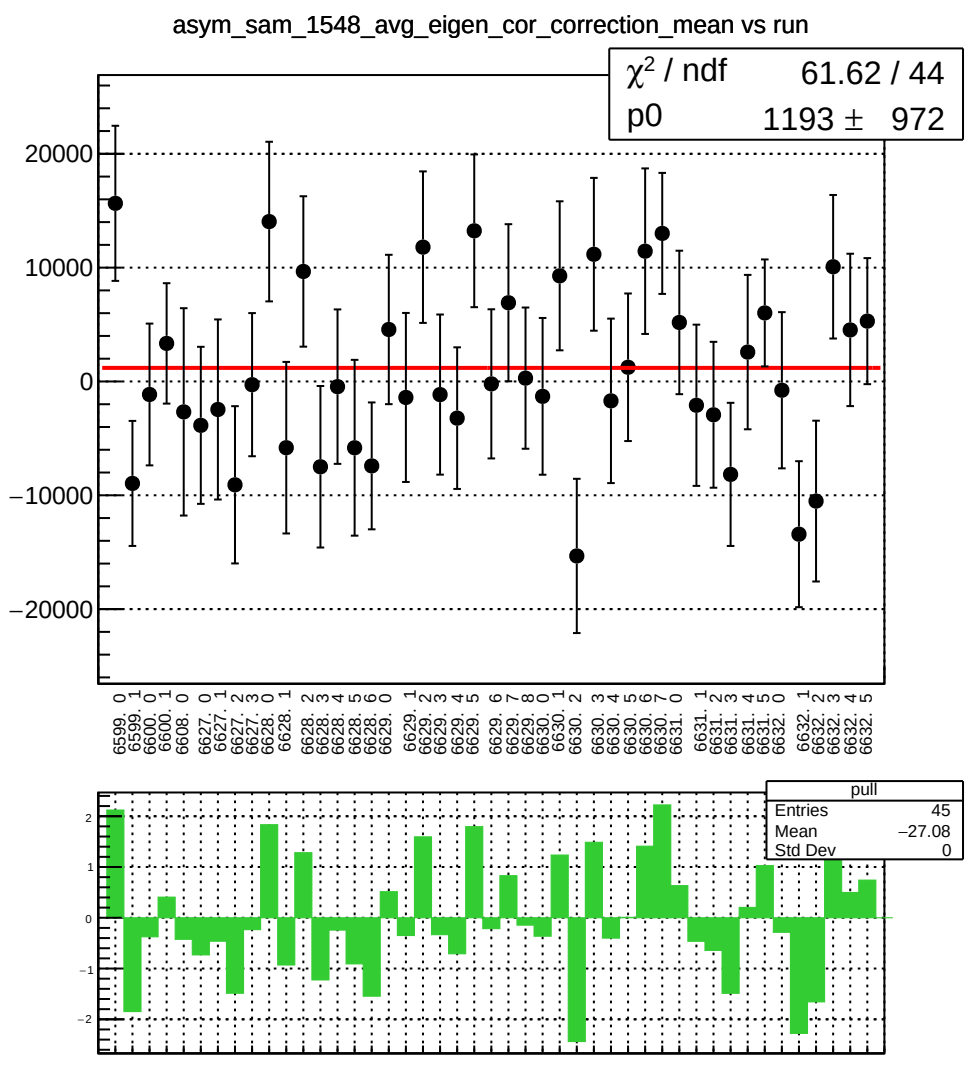
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 47 / 44
p0 −53.57 ± 130.3
2000
1000
0
−1000
−2000
−3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 185.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.01149
Std Dev 1.022
8
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 1506 / 44
p0 86.48 ± 0.09214
100
95
90
85
80
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 61.62 / 44
p0 1193 ± 972
20000
10000
0
−10000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6628. 6
6629. 0
6629. 1
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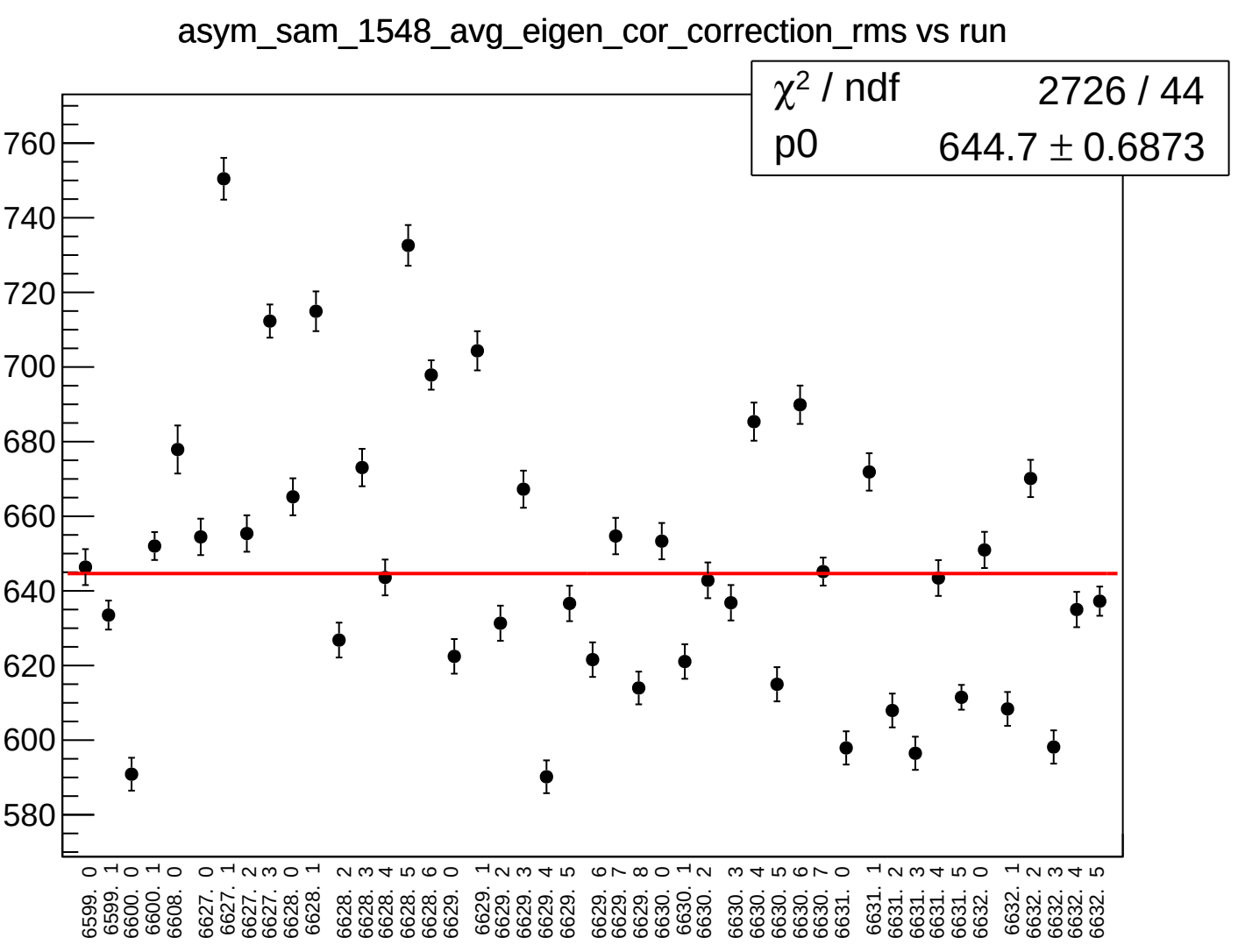
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −27.08
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02072
Std Dev 1.17
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 2726 / 44
p0 644.7 ± 0.6873
760
740
720
700
680
660
640
620
600
580
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
6628. 3
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6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6630. 0
6630. 1
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6630. 6
6630. 7
6631. 0
6631. 1
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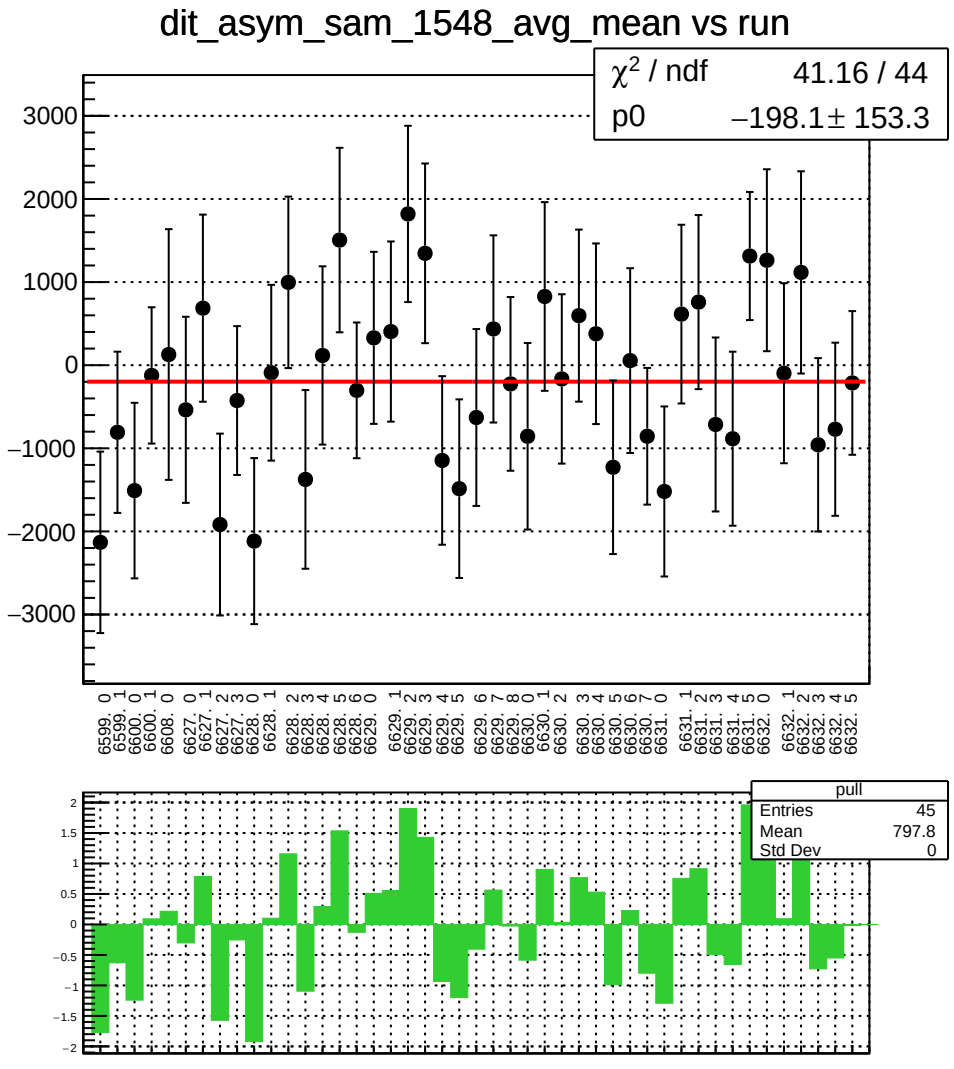
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


dit_asym_sam_1548_avg_mean vs run
χ² / ndf 41.16 / 44
p0 −198.1± 153.3
3000
2000
1000
0
−1000
−2000
−3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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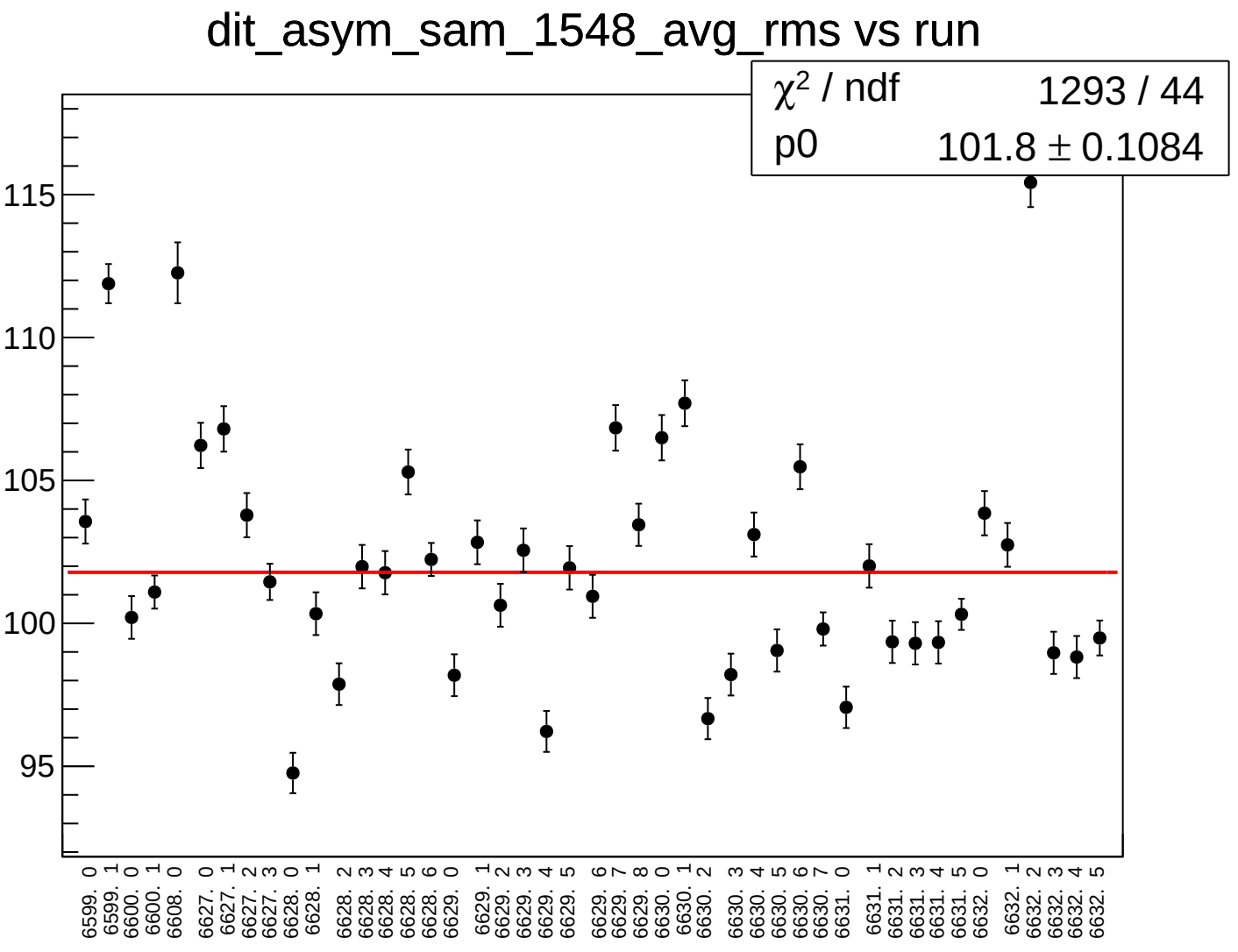
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 797.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.003471
Std Dev 0.9564
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_1548_avg_rms vs run
χ² / ndf 1293 / 44
p0 101.8 ± 0.1084
115
110
105
100
95
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6632. 2
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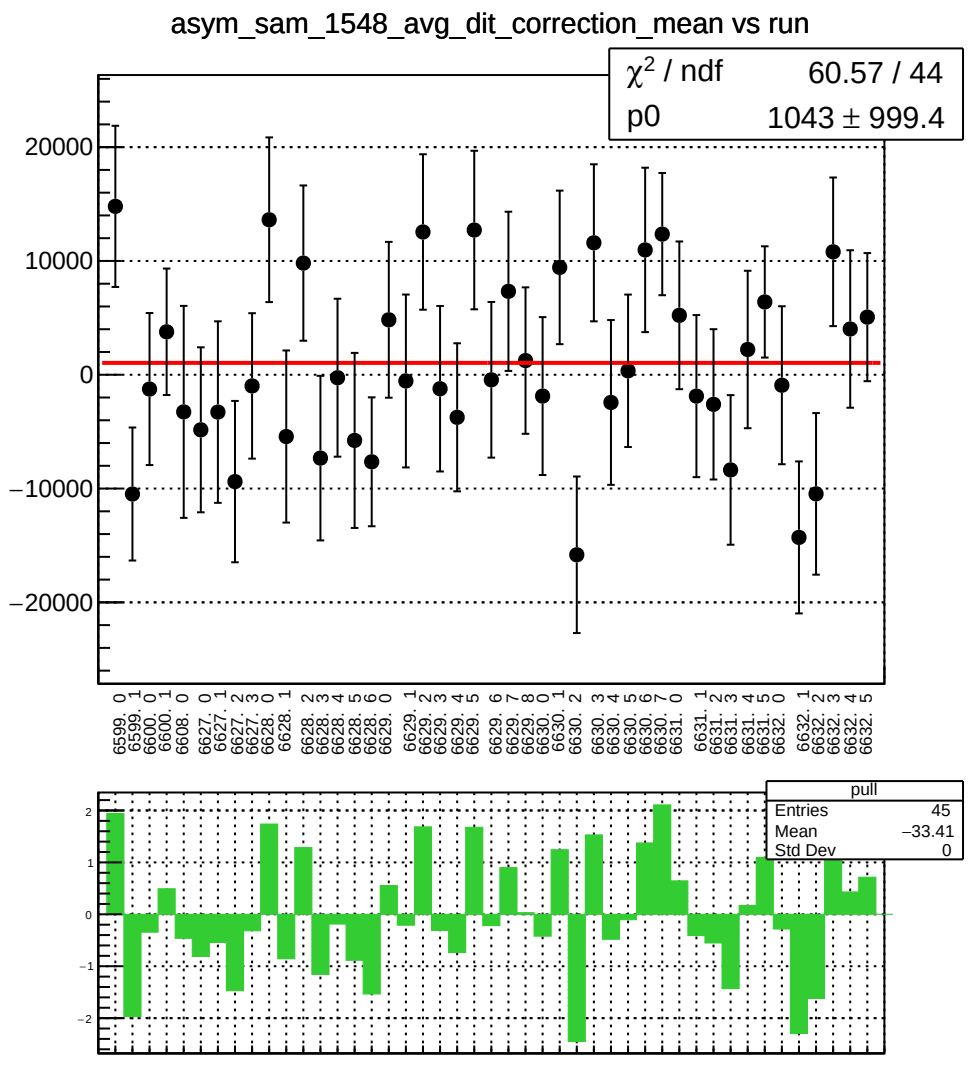
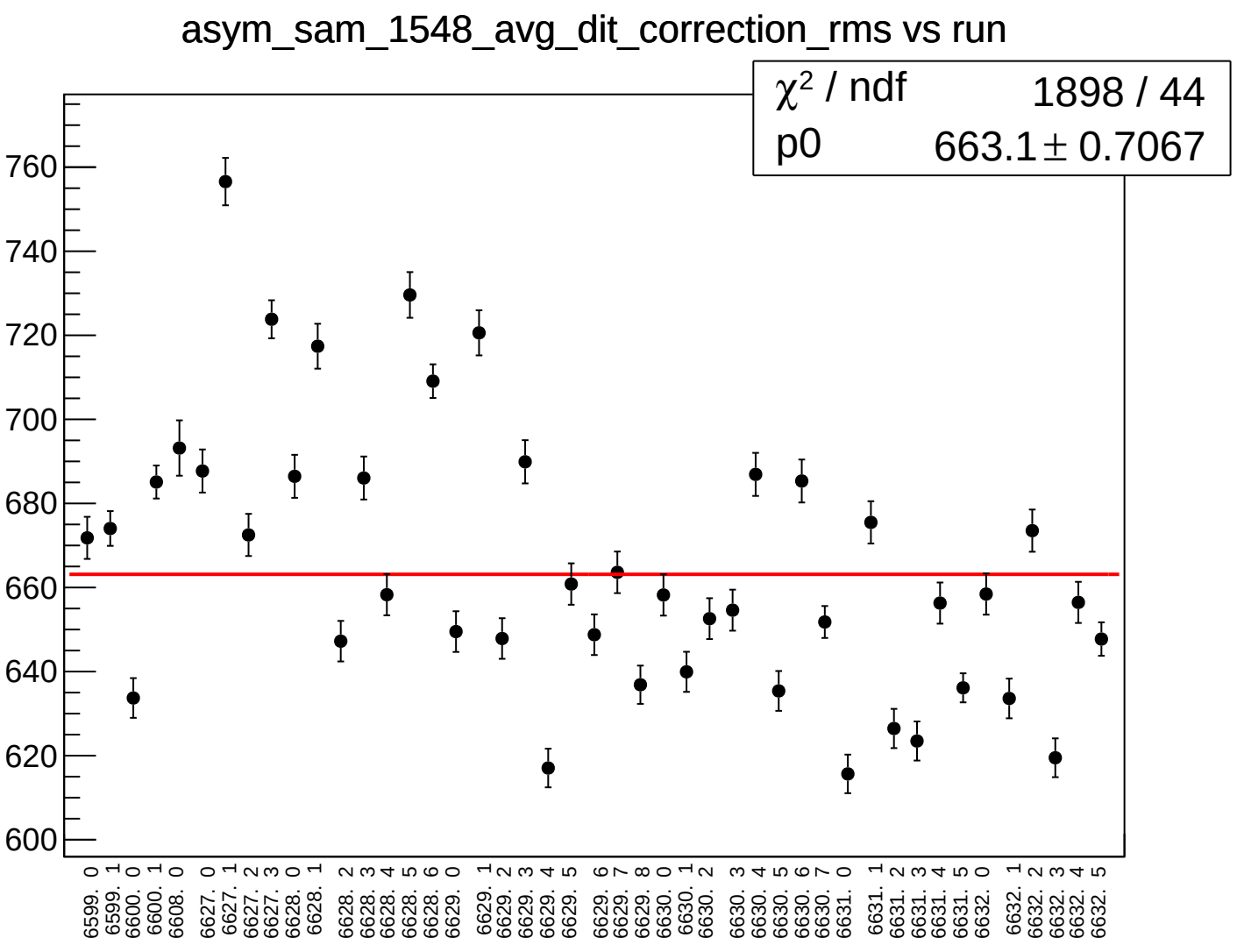
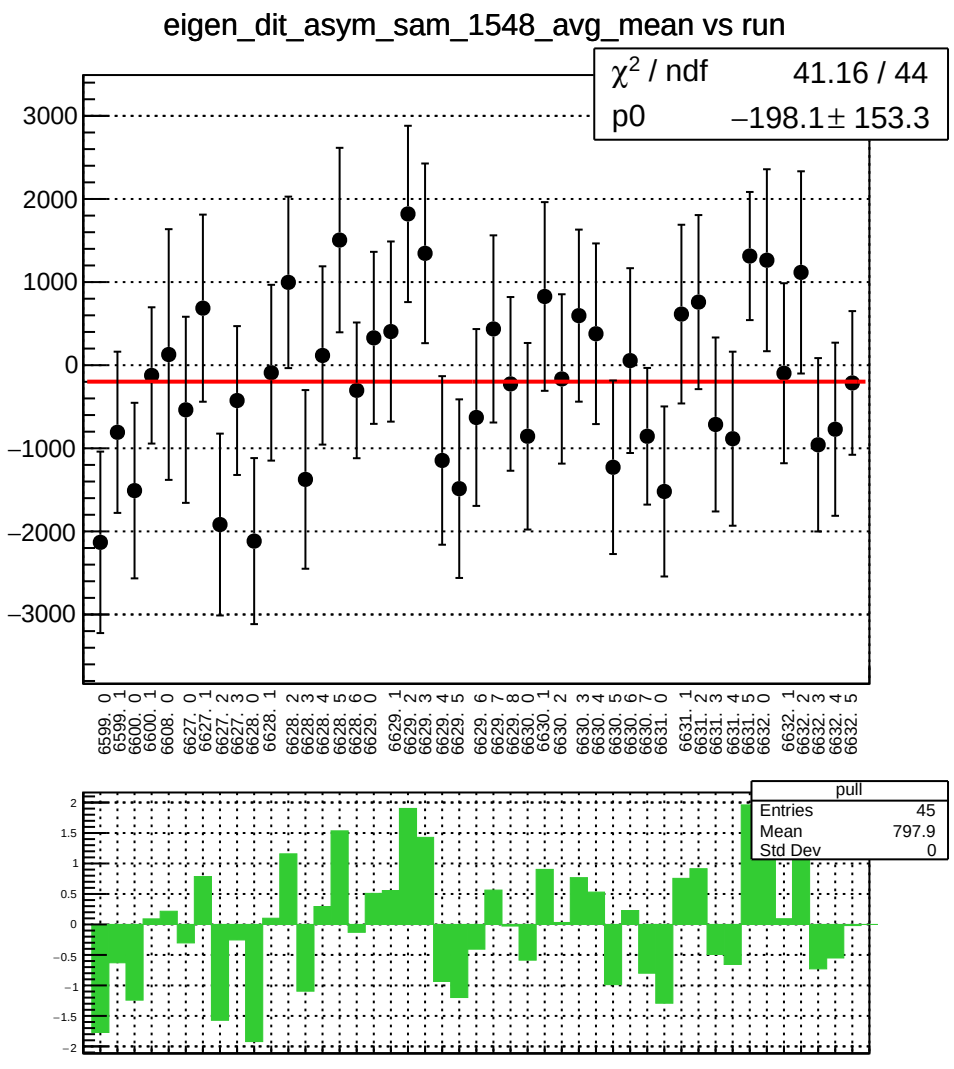
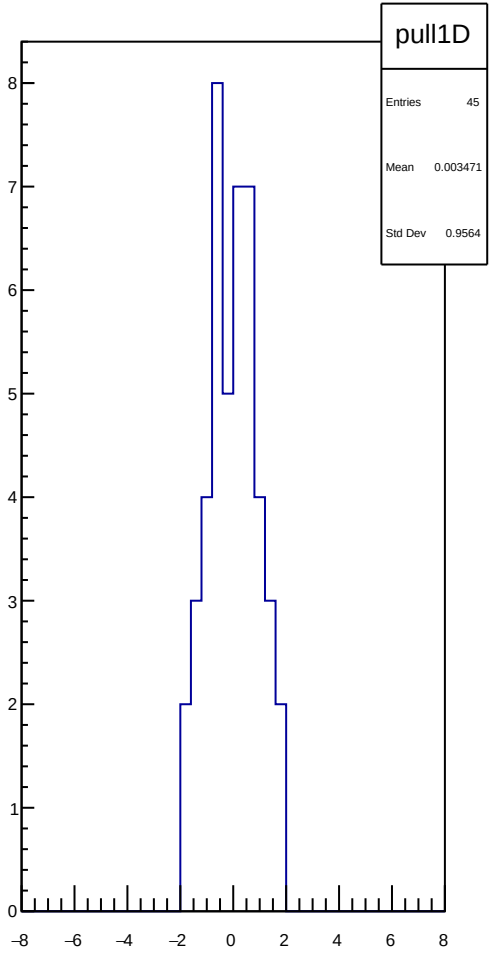
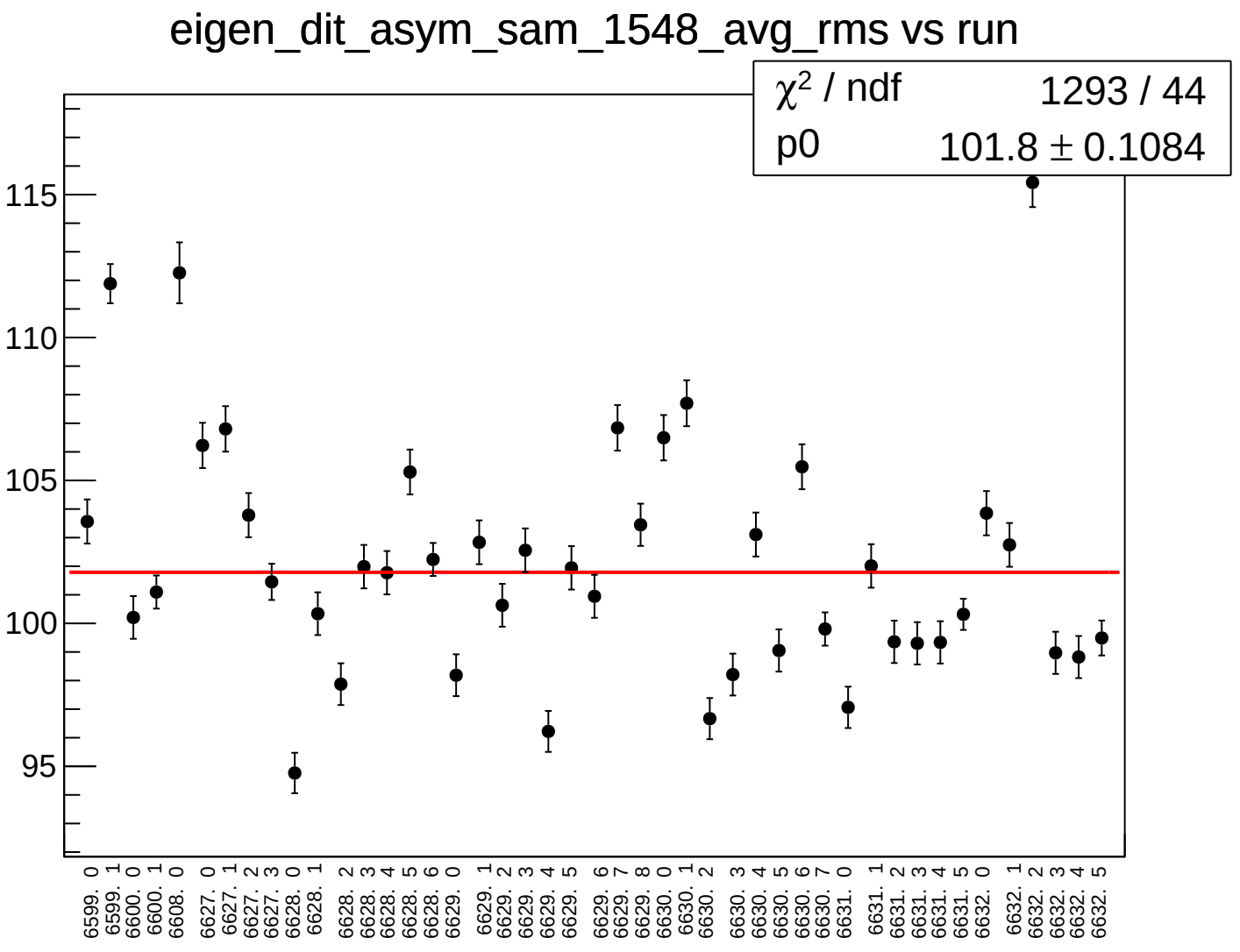
6632. 4
6632. 5

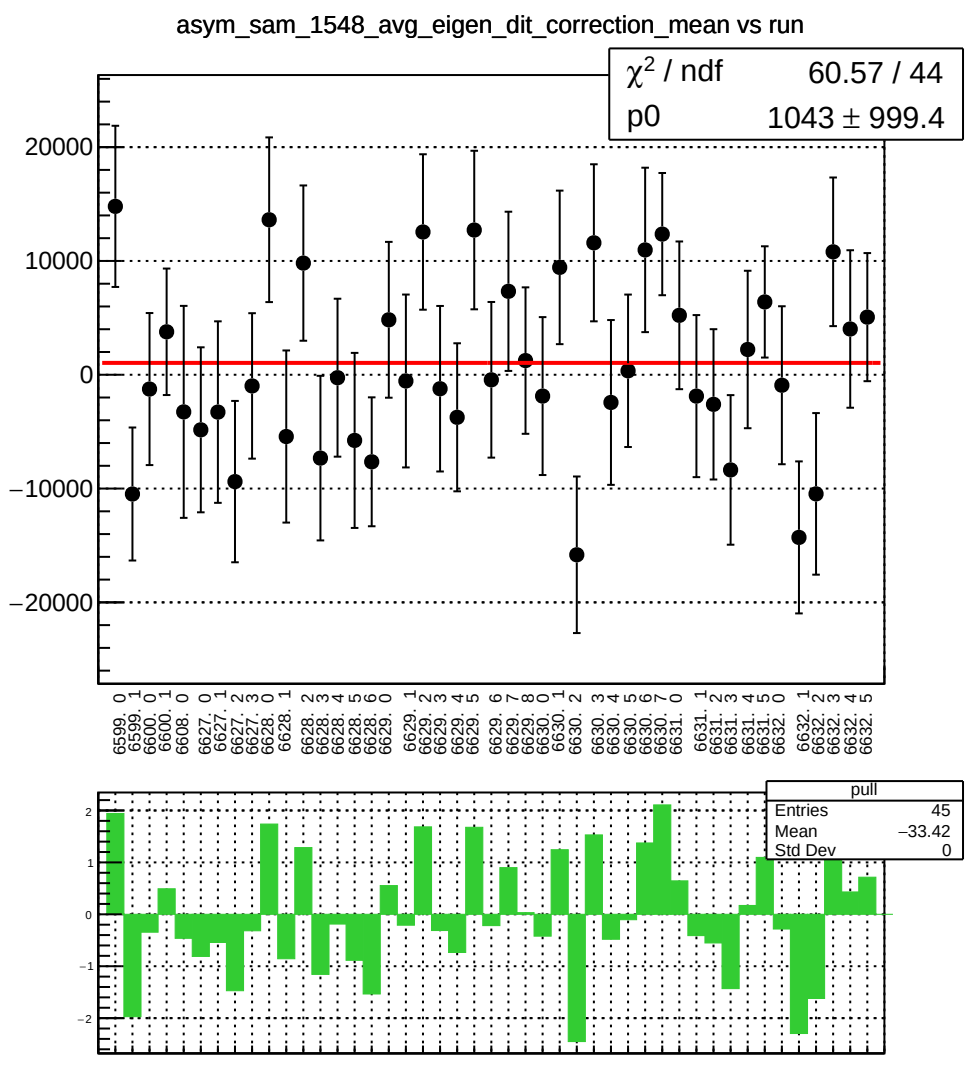

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 60.57 / 44
p0 1043 ± 999.4
20000
10000
0
−10000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −33.41
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02124
Std Dev 1.16
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

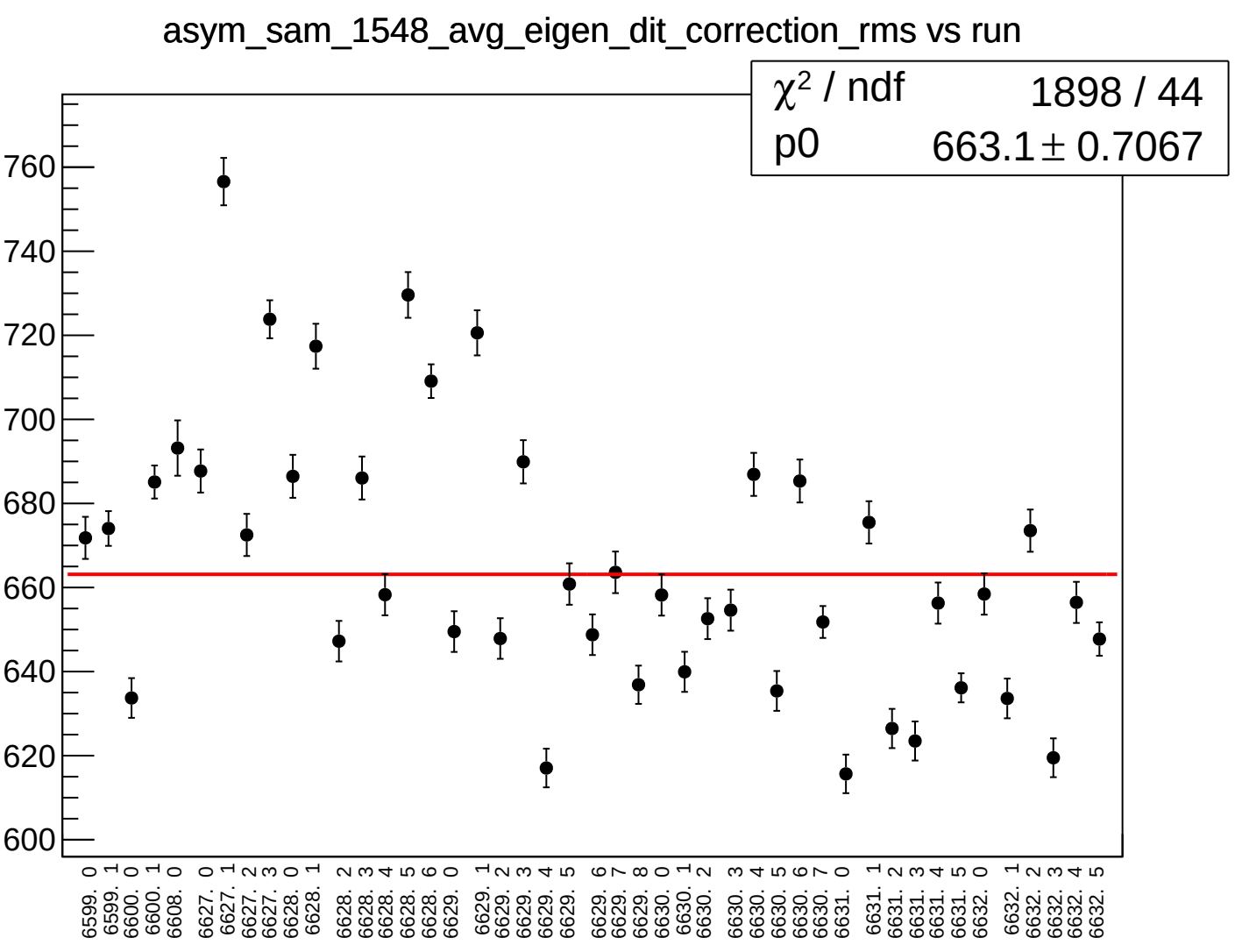

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 1898 / 44
p0 663.1 ± 0.7067
760
740
720
700
680
660
640
620
600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

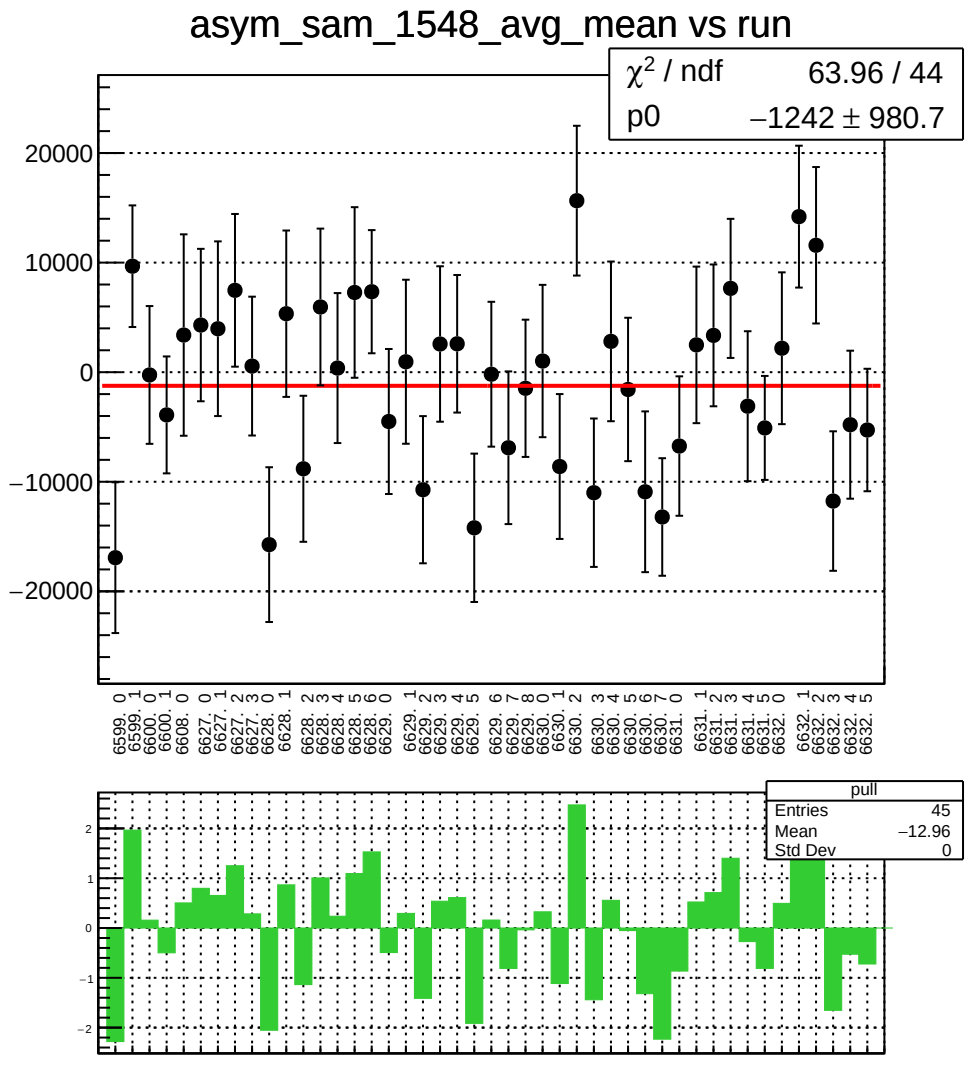

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 41.16 / 44
p0 −198.1± 153.3
3000
2000
1000
0
−1000
−2000
−3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 797.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

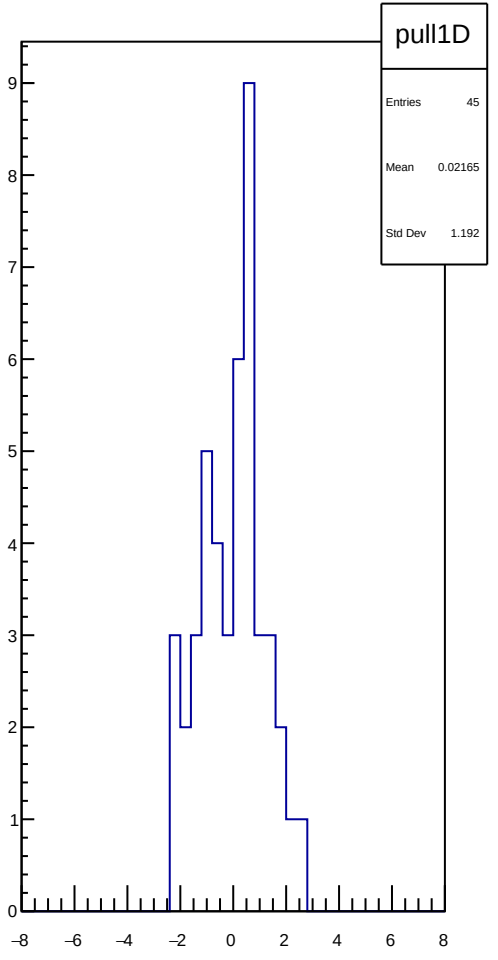

pull1D
Entries 45
Mean 0.003471
Std Dev 0.9564
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

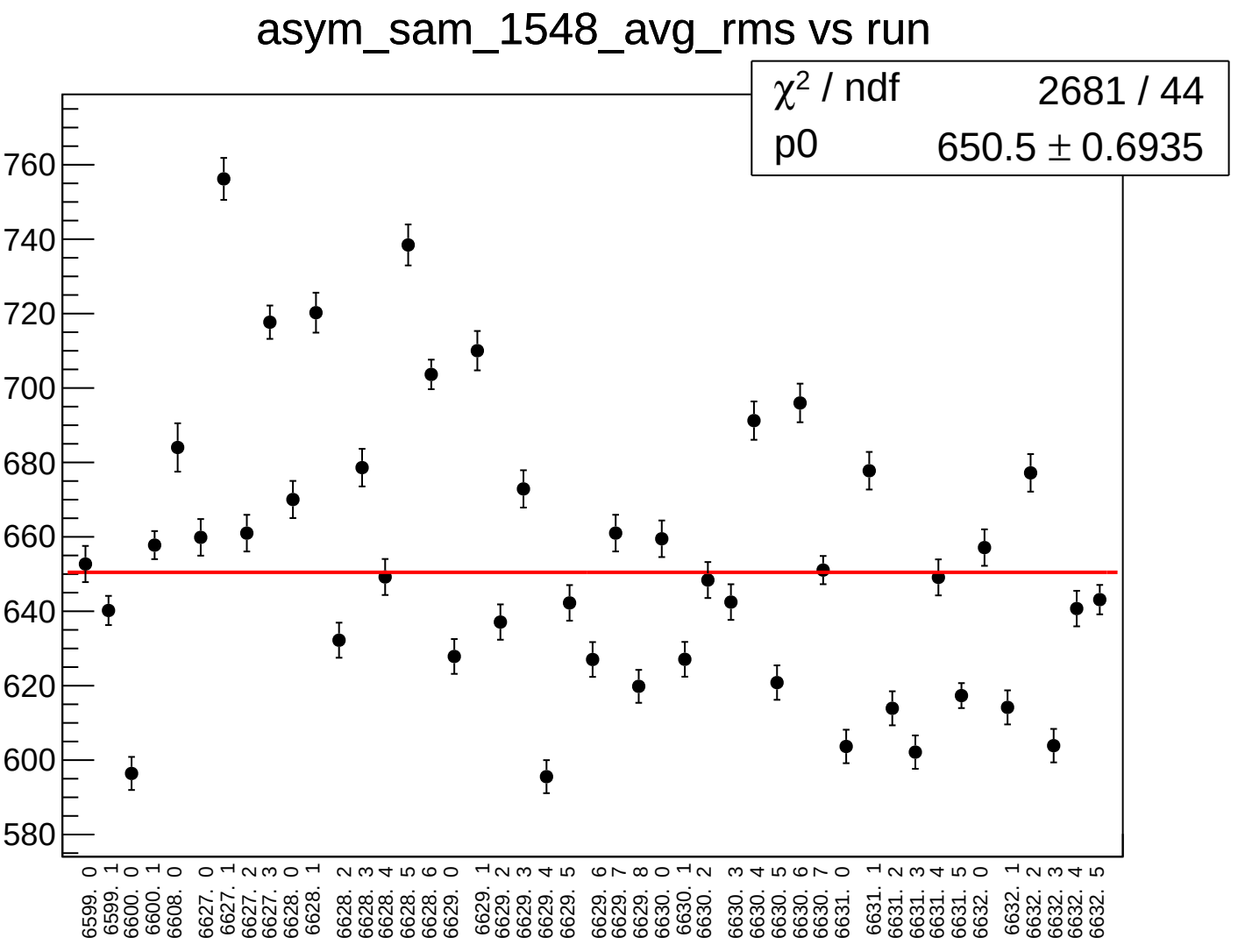

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 1293 / 44
p0 101.8 ± 0.1084
115
110
105
100
95
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

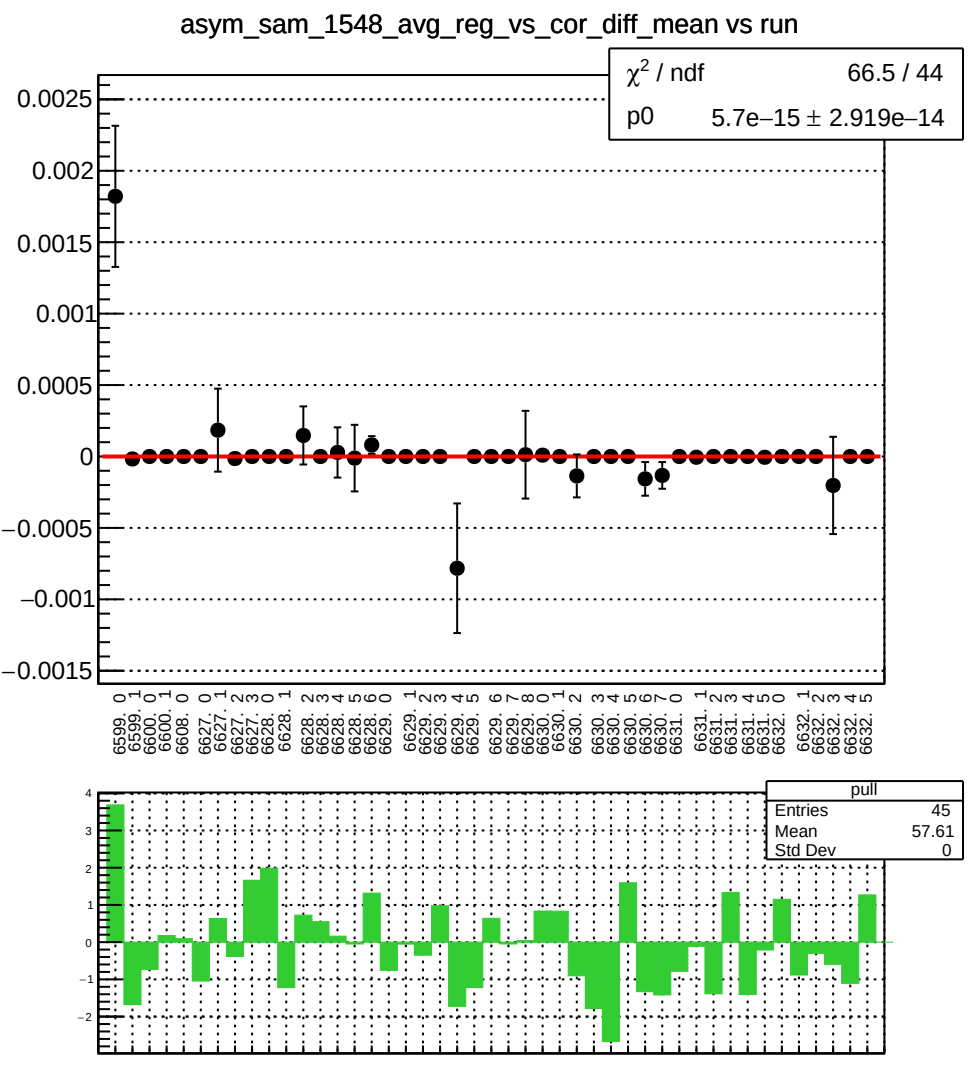

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 60.57 / 44
p0 1043 ± 999.4
20000
10000
0
−10000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −33.42
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02124
Std Dev 1.16
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

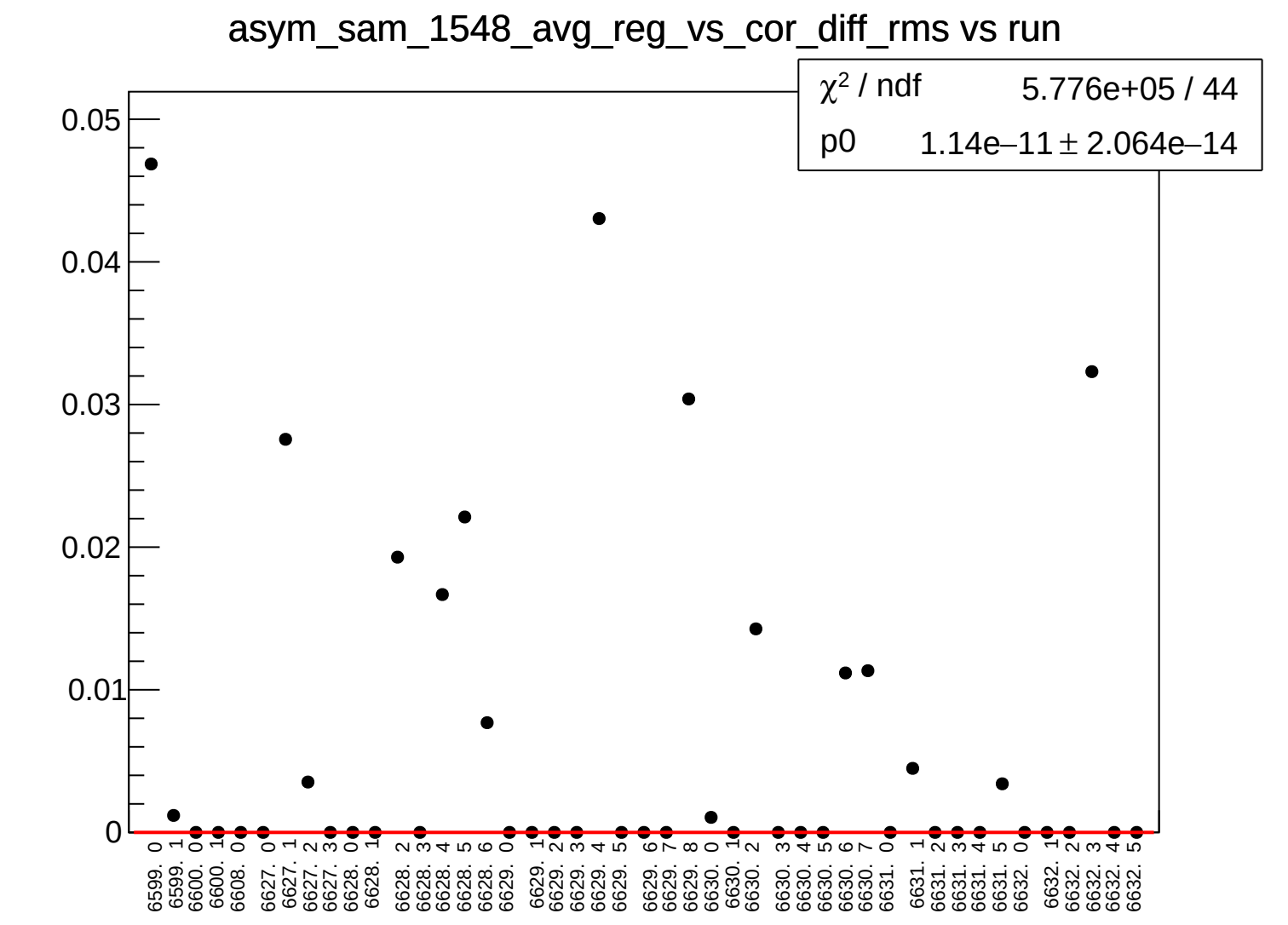

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 1898 / 44
p0 663.1 ± 0.7067
760
740
720
700
680
660
640
620
600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

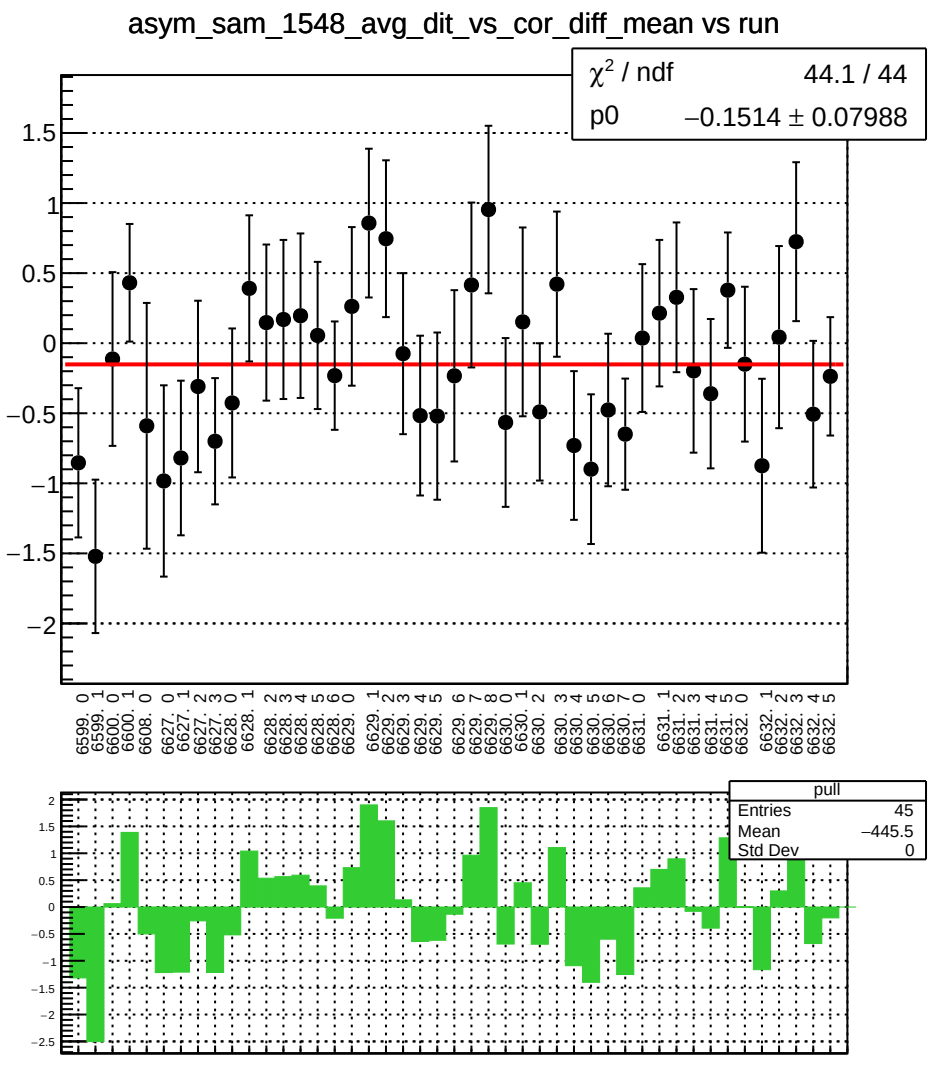

asym_sam_1548_avg_mean vs run
χ² / ndf 63.96 / 44
p0 −1242 ± 980.7
20000
10000
0
−10000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −12.96
Std Dev 0
2
1
0
−1
−2

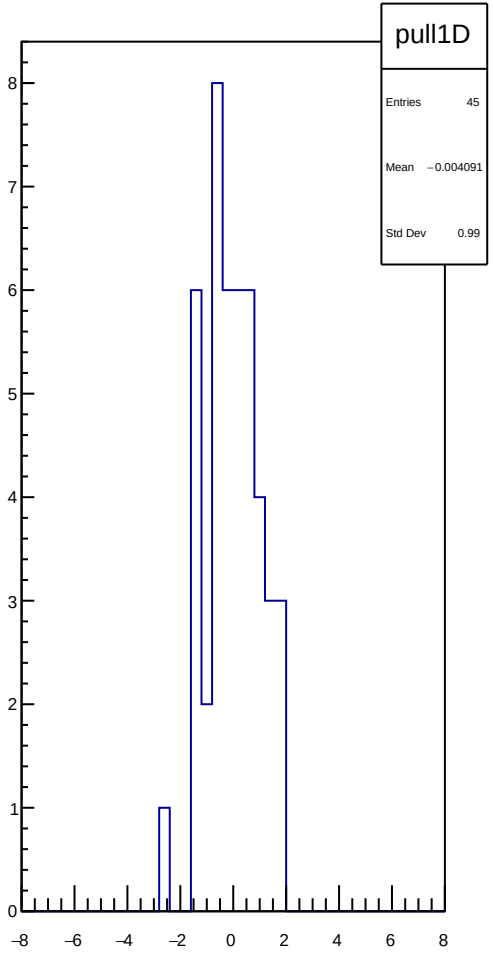

pull1D
Entries 45
Mean 0.02165
Std Dev 1.192
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

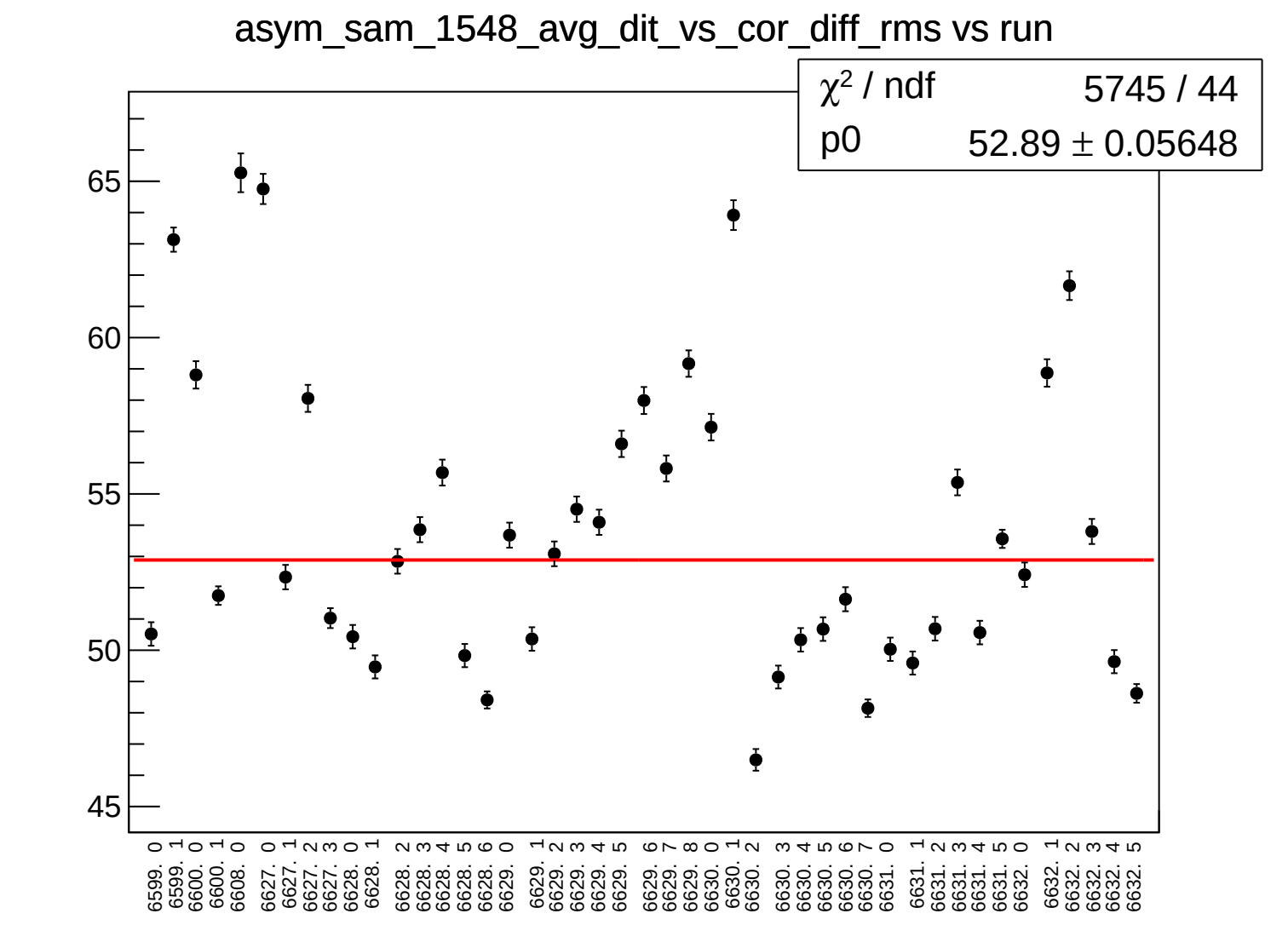

asym_sam_1548_avg_rms vs run
χ² / ndf 2681 / 44
p0 650.5 ± 0.6935
760
740
720
700
680
660
640
620
600
580
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 66.5 / 44
p0 5.7e−15 ± 2.919e−14
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 57.61
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.0998
Std Dev 1.212
8
7
6
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 5.776e+05 / 44
p0 1.14e−11 ± 2.064e−14
0.05
0.04
0.03
0.02
0.01
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 44.1 / 44
p0 −0.1514 ± 0.07988
pull
Entries 45
Mean −445.5
Std Dev 0


pull1D
Entries 45
Mean −0.004091
Std Dev 0.99


asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5745 / 44
p0 52.89 ± 0.05648
65
60
55
50
45
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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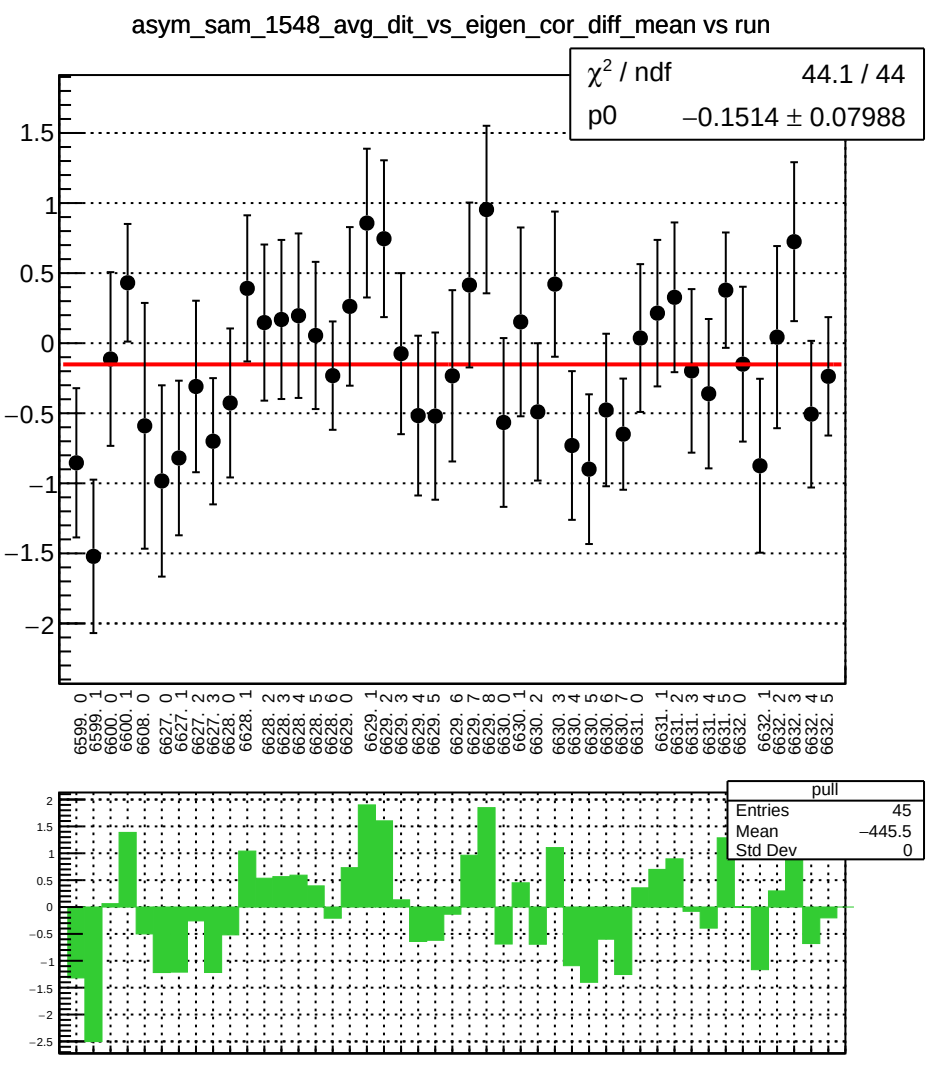
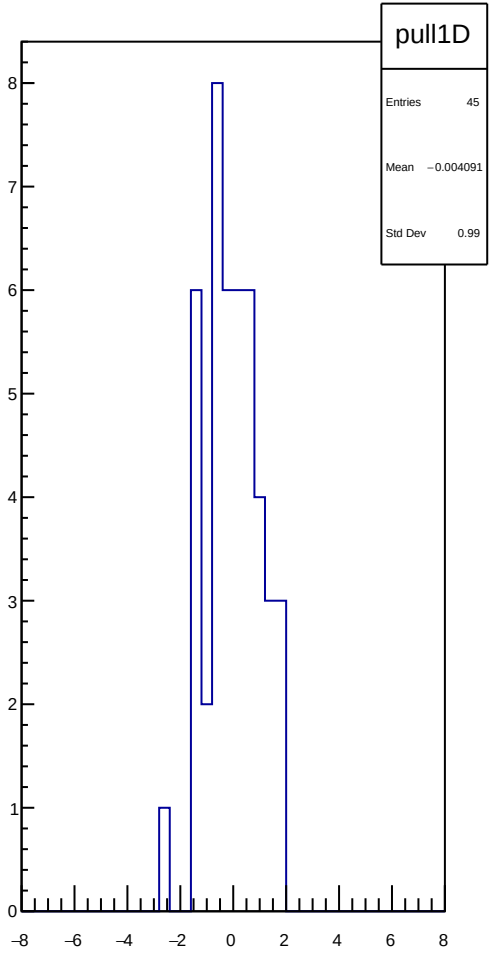
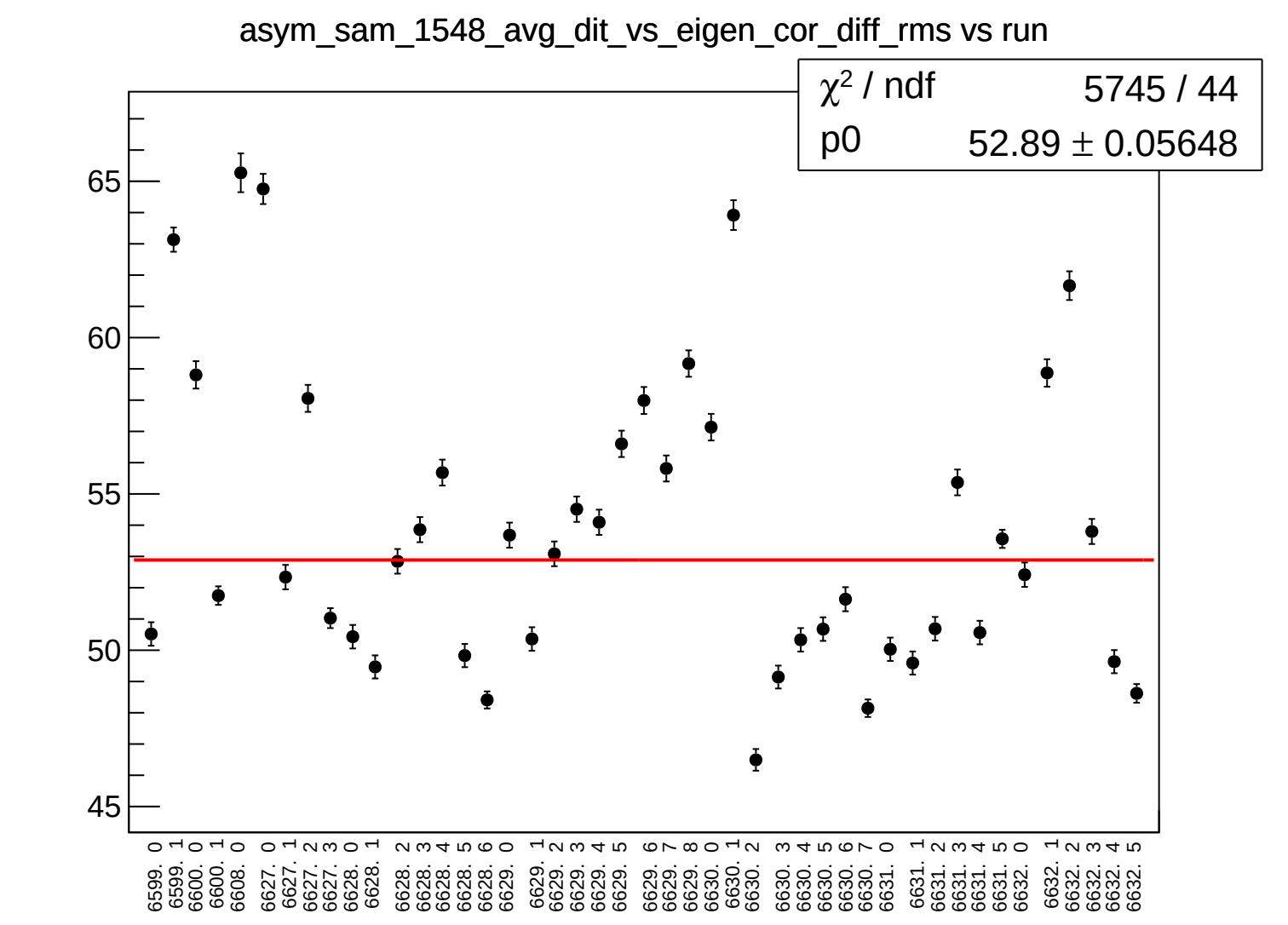
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 44.1 / 44
p0 −0.1514 ± 0.07988
pull
Entries 45
Mean −445.5
Std Dev 0


pull1D
Entries 45
Mean −0.004091
Std Dev 0.99


asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5745 / 44
p0 52.89 ± 0.05648
65
60
55
50
45
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6629. 0
6629. 1
6629. 2
6629. 3
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6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 5
6632. 0
6632. 1
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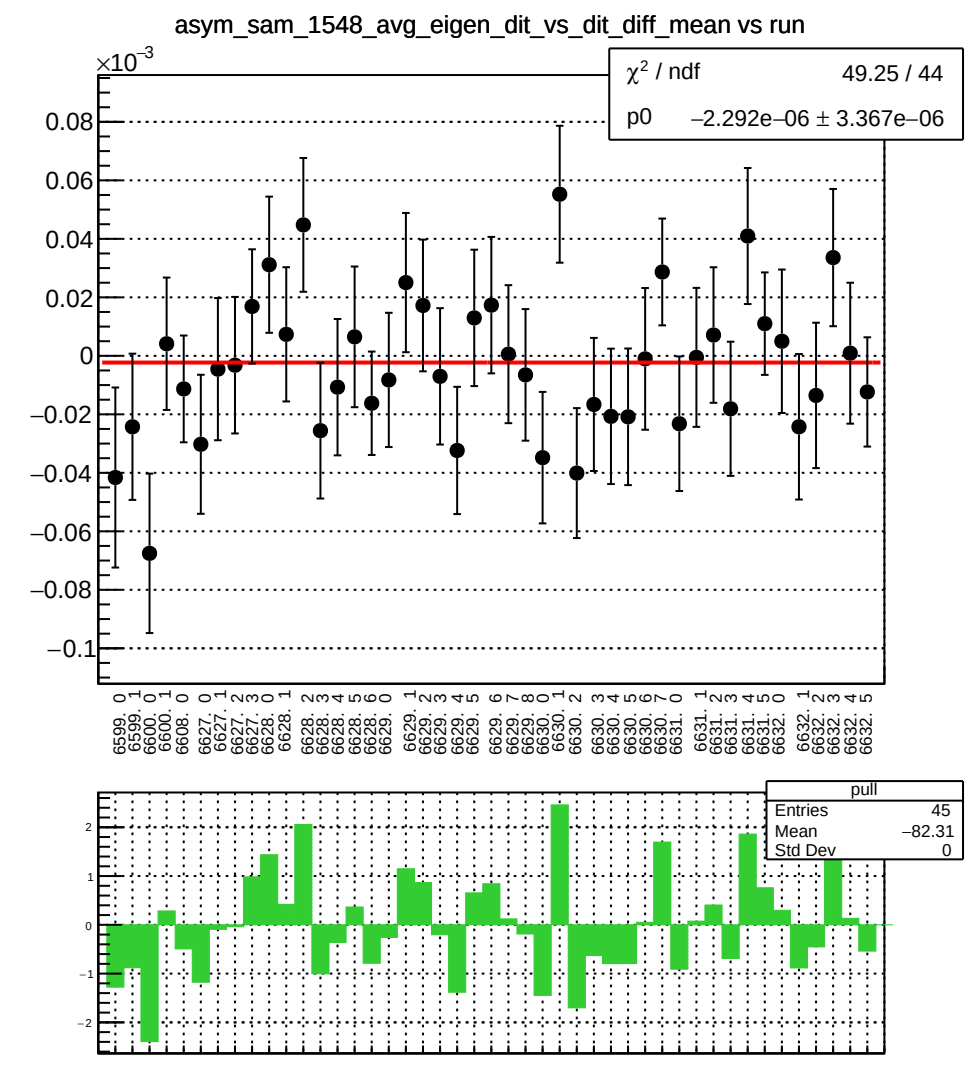
6632. 3
6632. 4
6632. 5


asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 49.25 / 44
p0 −2.292e−06 ± 3.367e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6630. 1
6630. 2
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6630. 5
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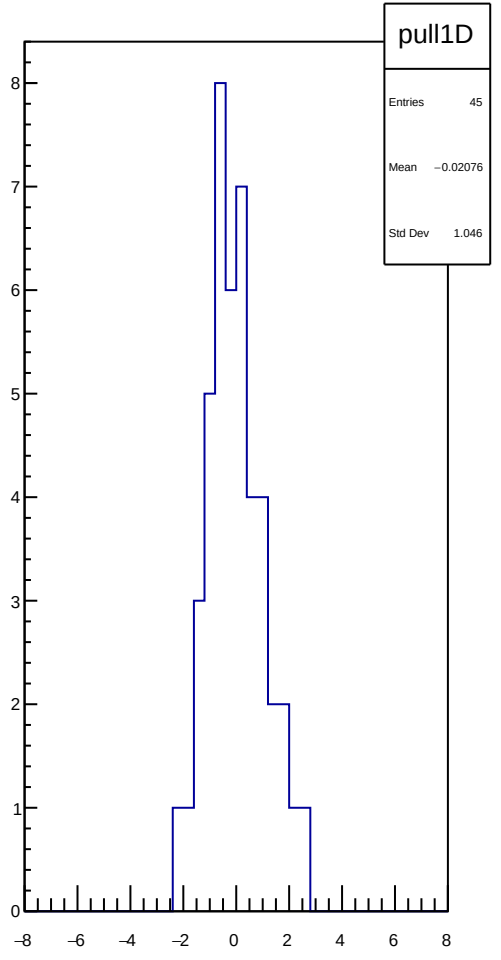
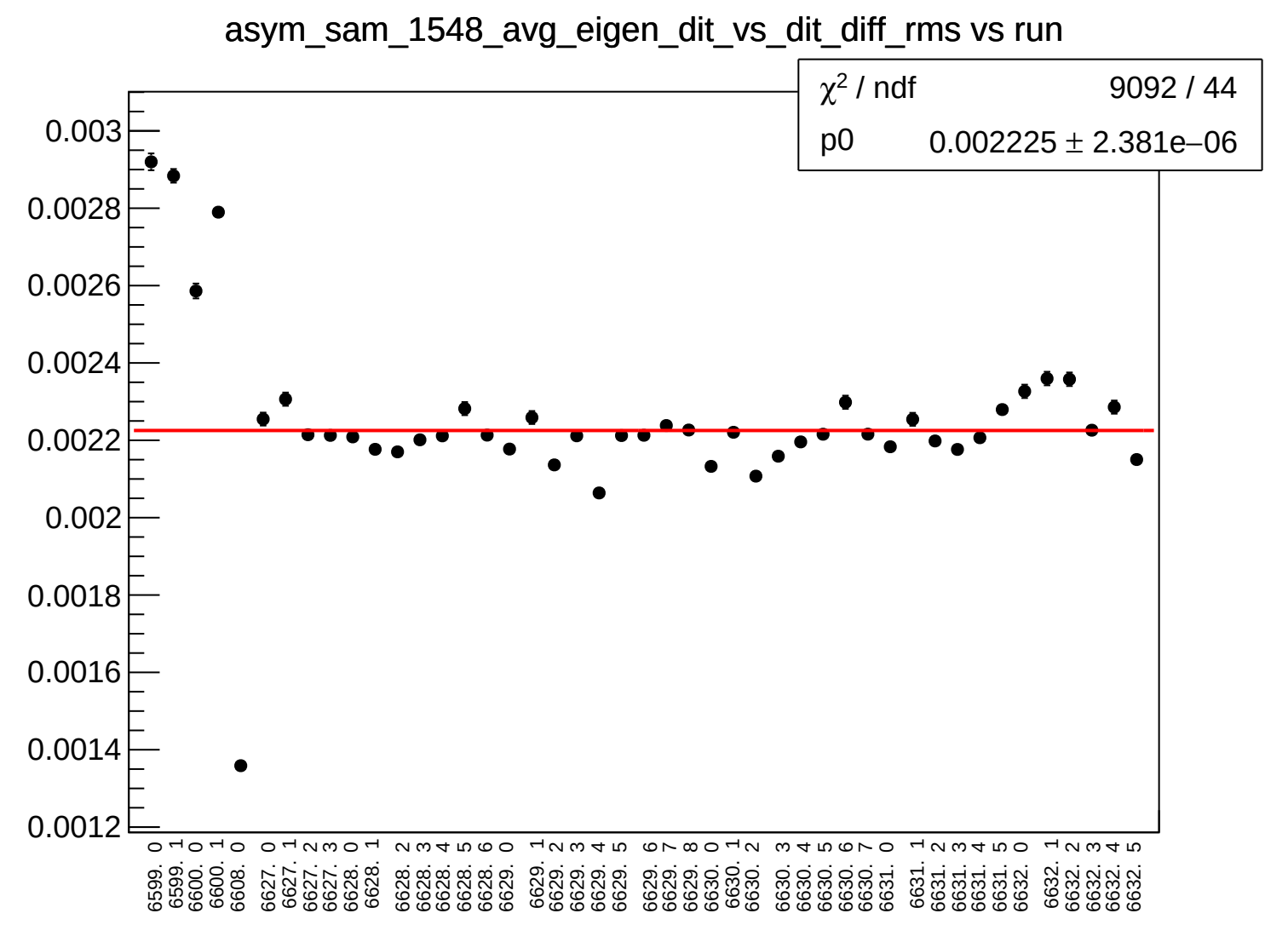
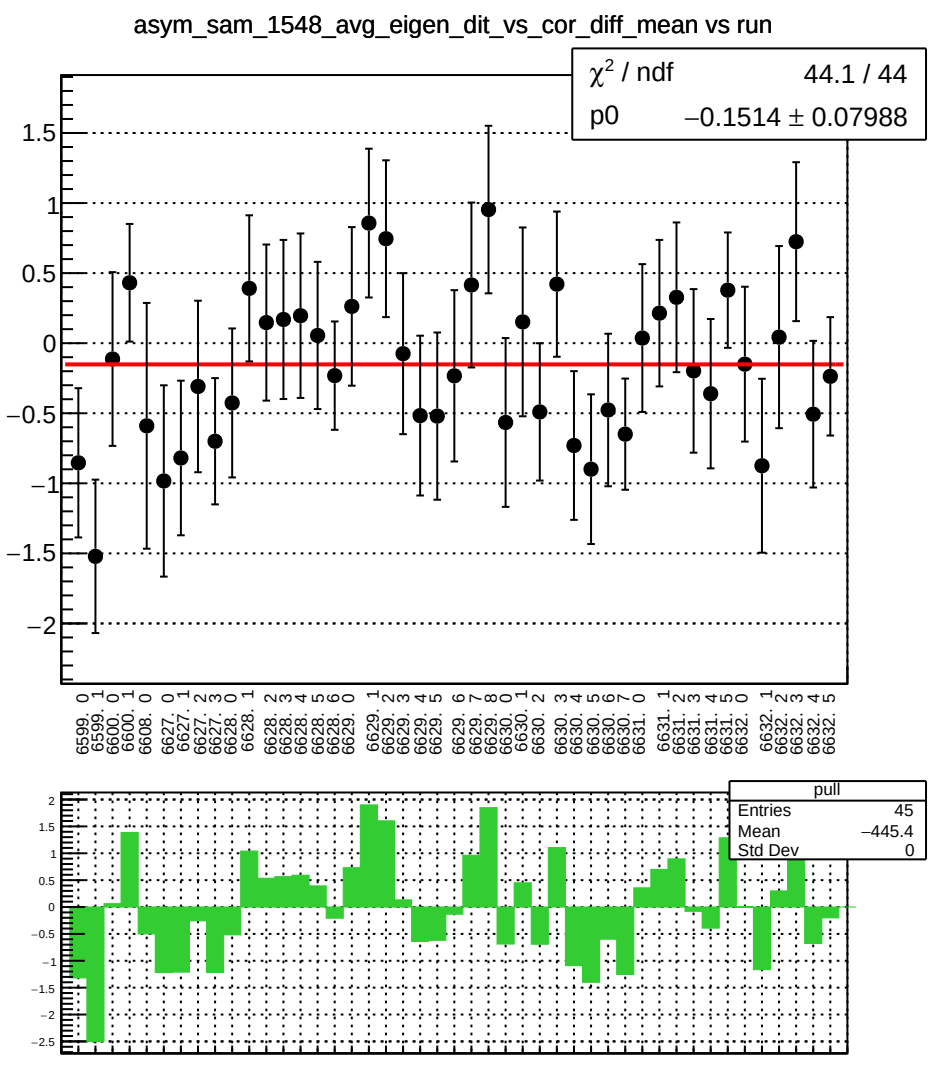
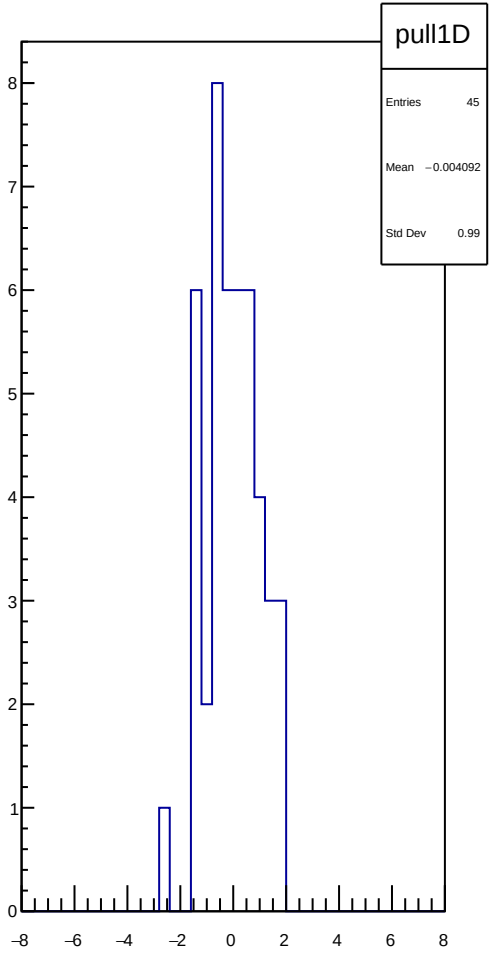
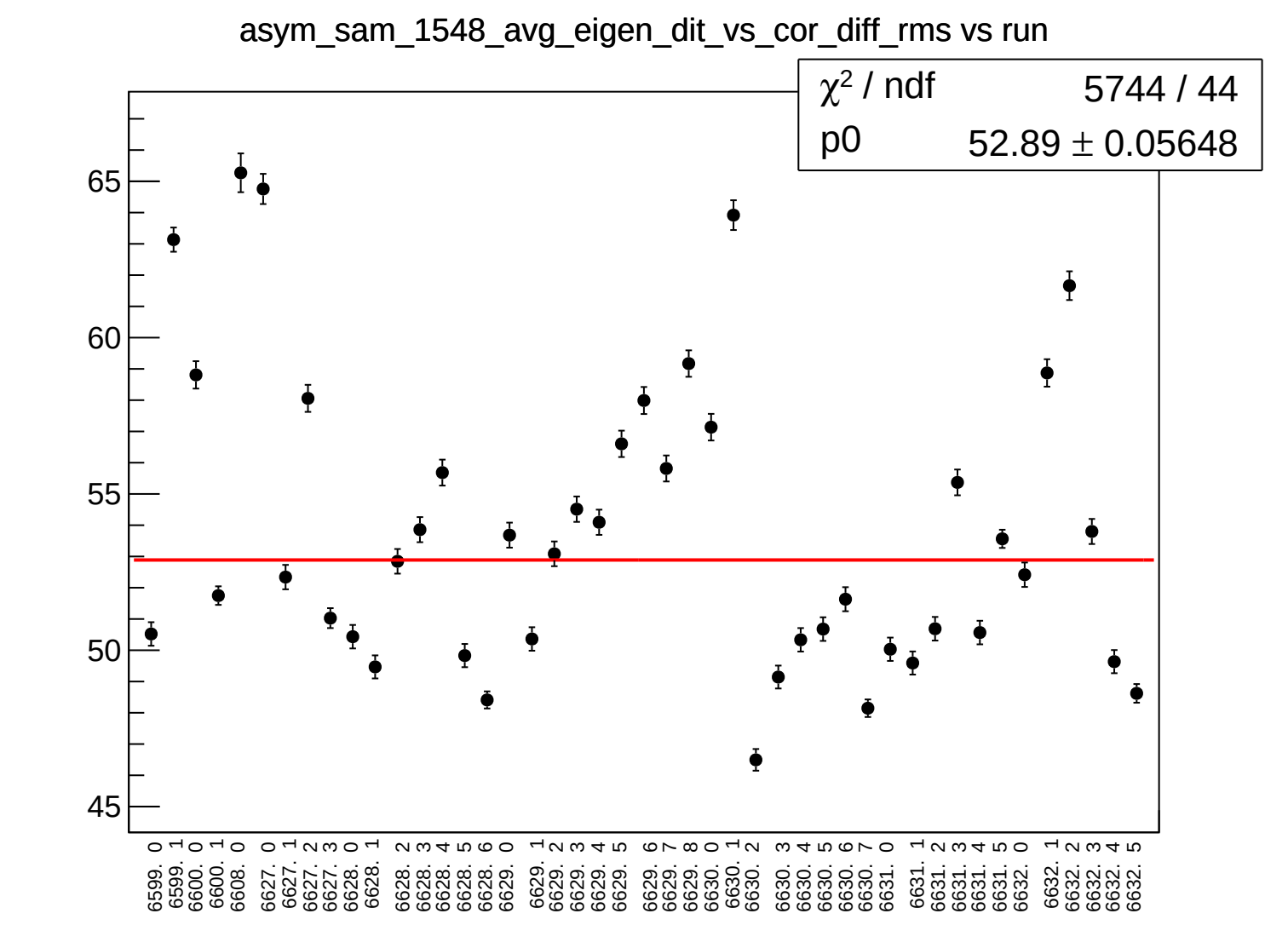
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −82.31
Std Dev 0
2
1
0
−1
−2

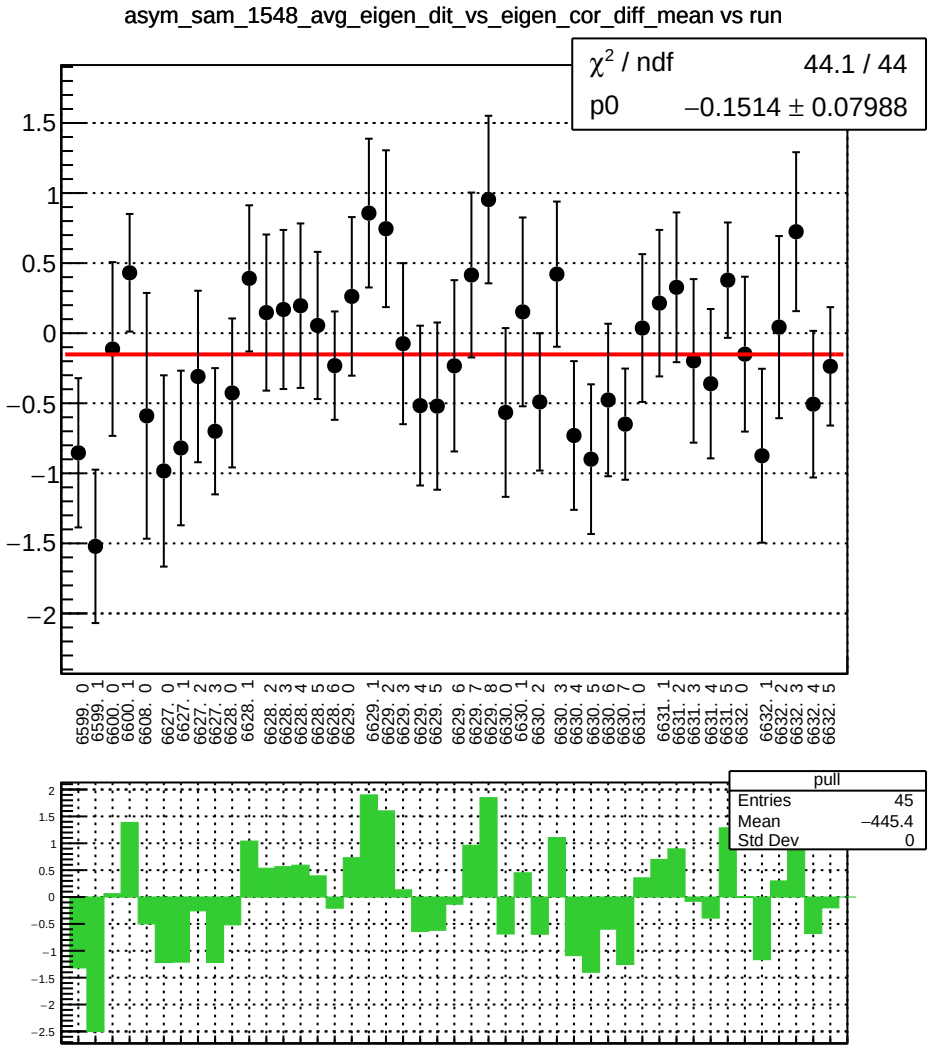

pull1D
Entries 45
Mean −0.02076
Std Dev 1.046
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

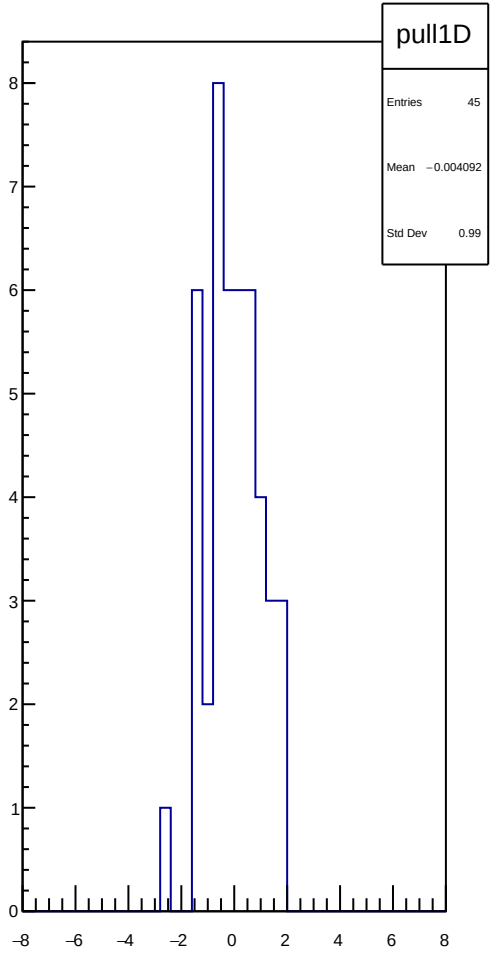

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9092 / 44
p0 0.002225 ± 2.381e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

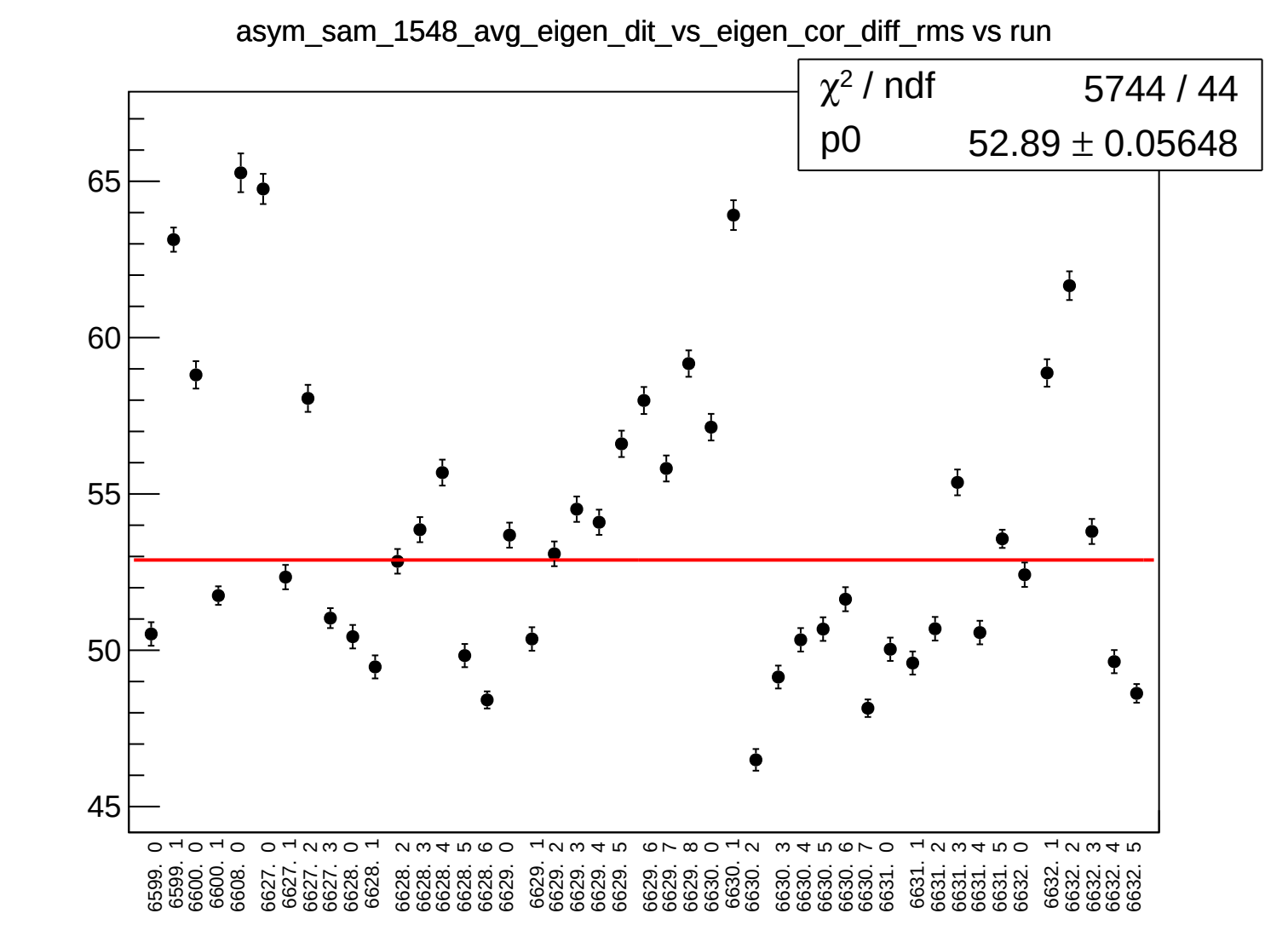

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 44.1 / 44
p0 −0.1514 ± 0.07988
pull
Entries 45
Mean −445.4
Std Dev 0

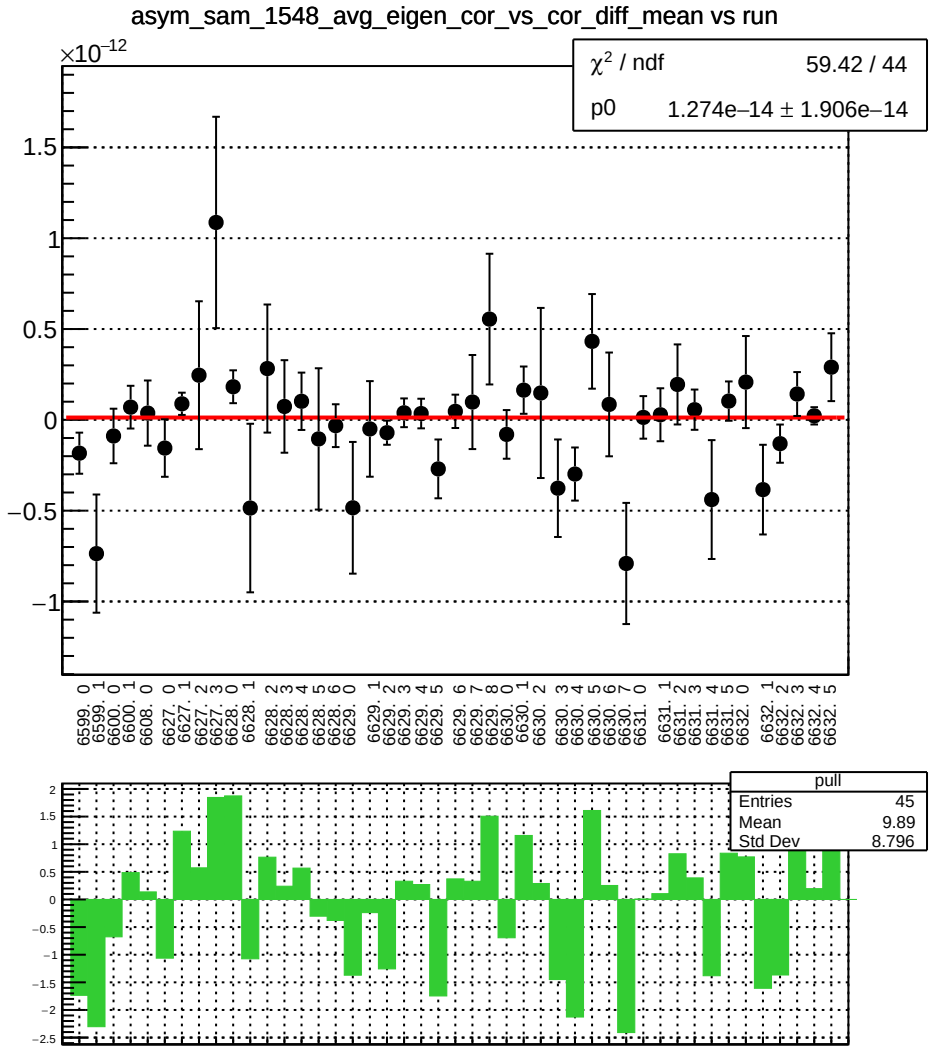

pull1D
Entries 45
Mean −0.004092
Std Dev 0.99

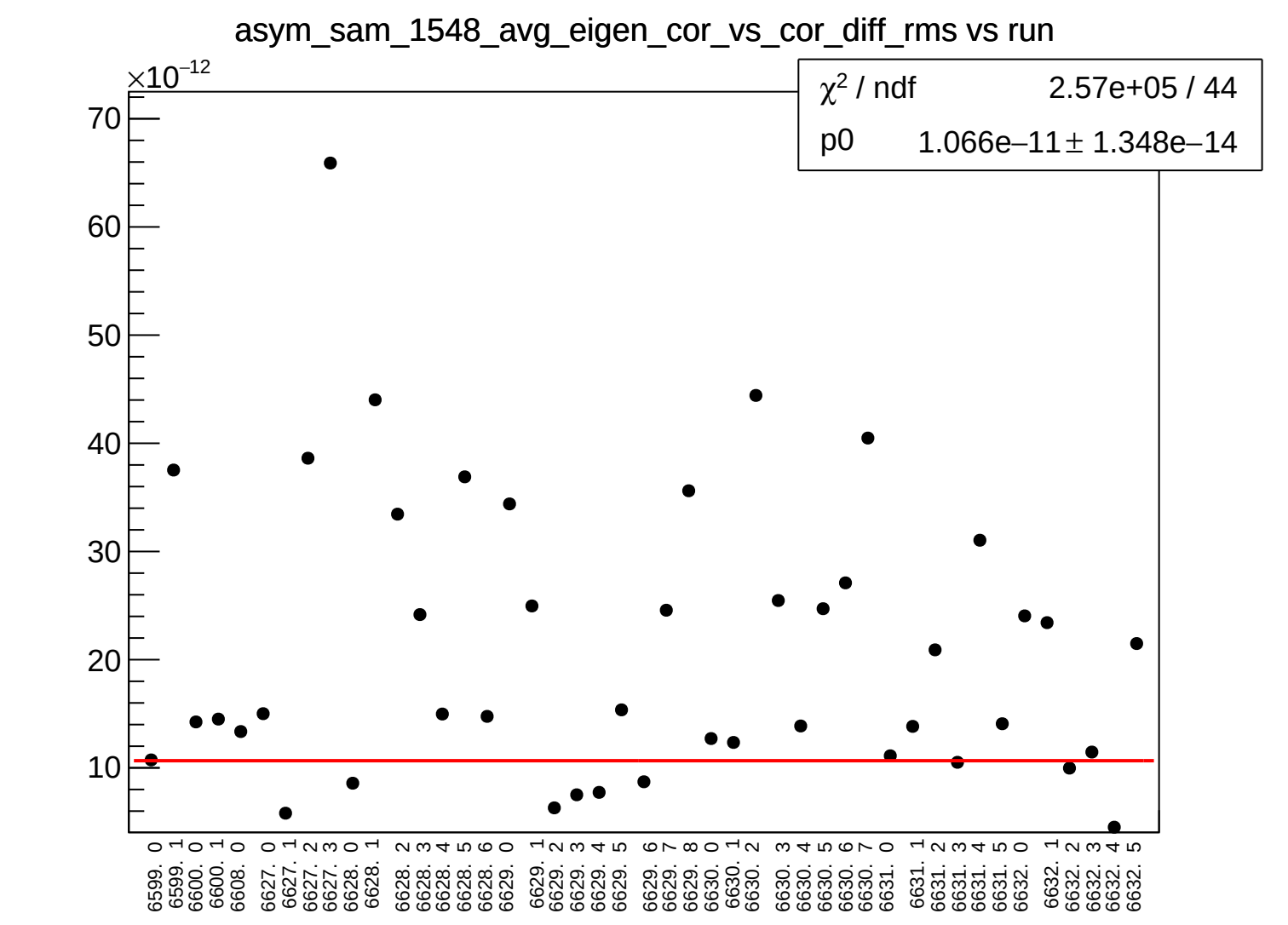

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5744 / 44
p0 52.89 ± 0.05648
65
60
55
50
45
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

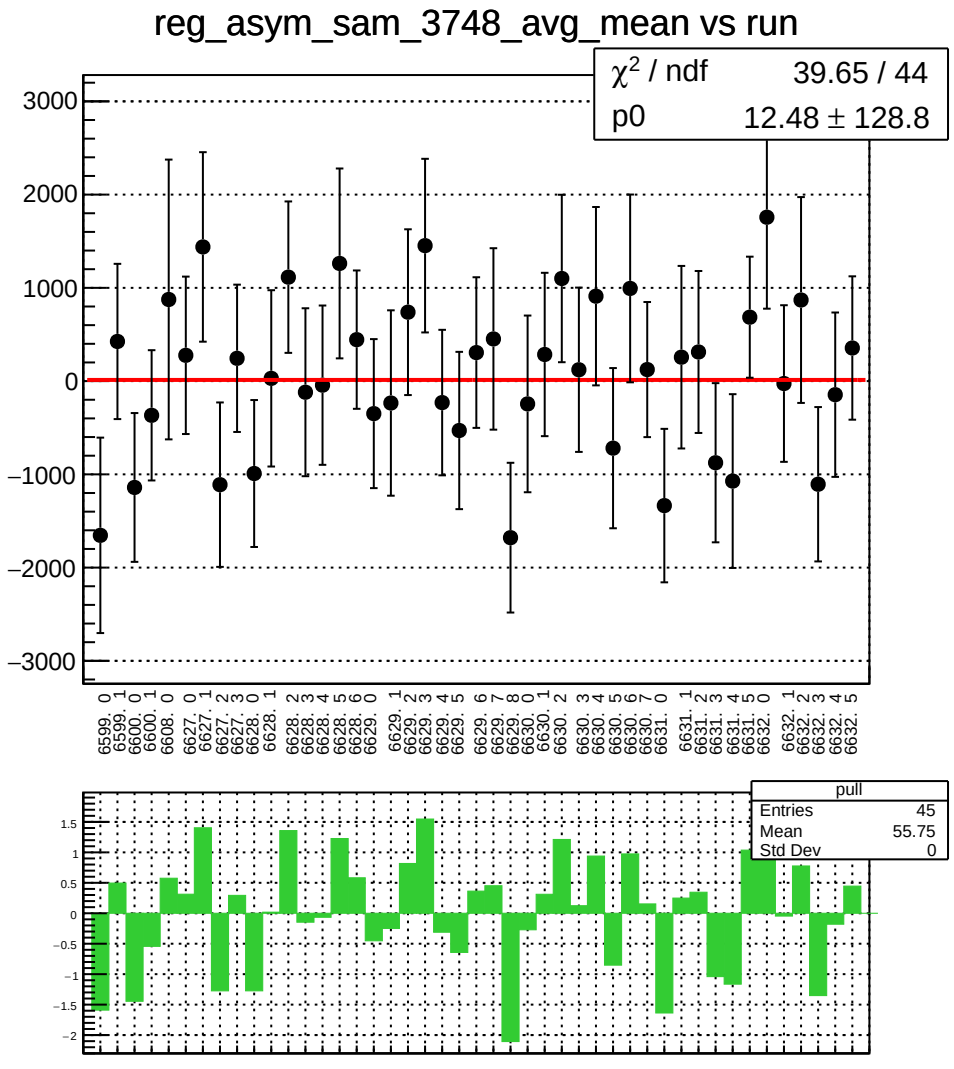

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 44.1 / 44
p0 −0.1514 ± 0.07988
pull
Entries 45
Mean −445.4
Std Dev 0

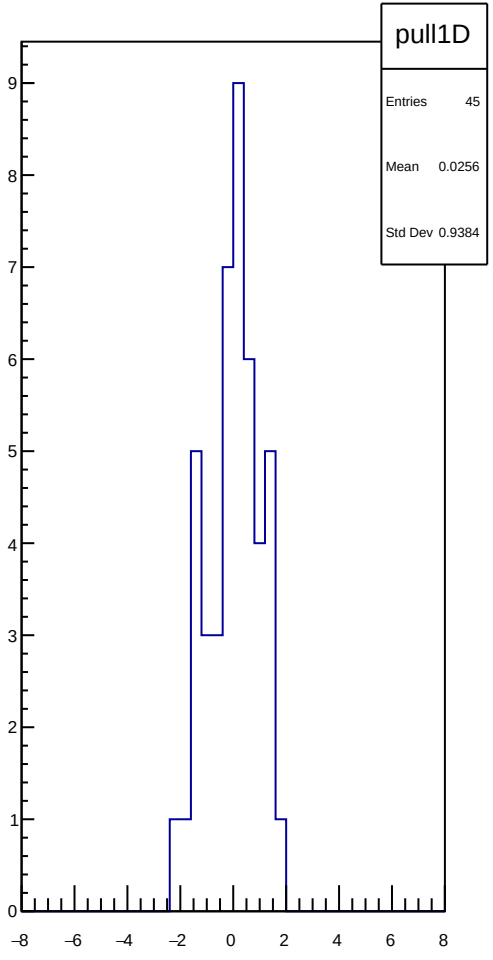

pull1D
Entries 45
Mean −0.004092
Std Dev 0.99

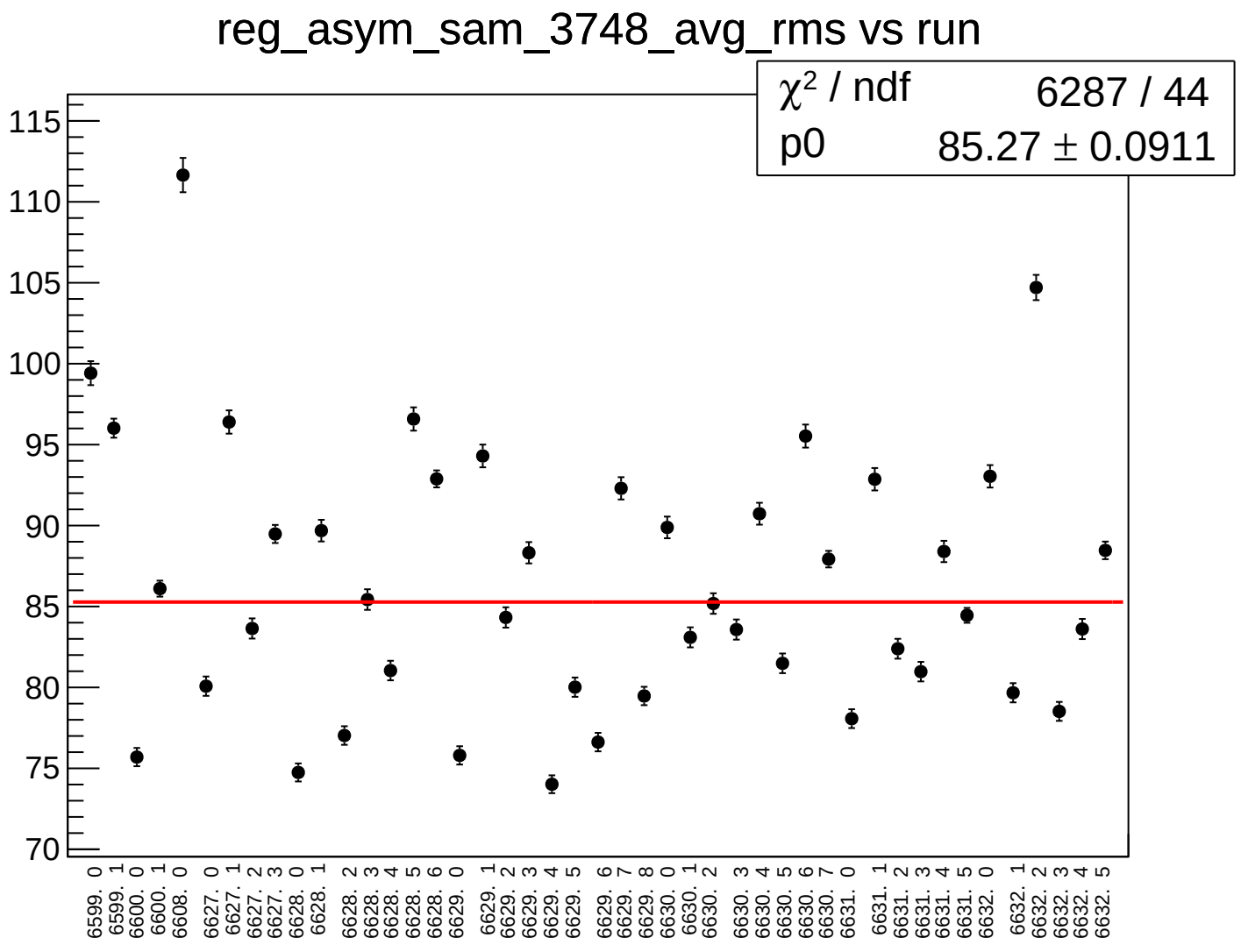

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5744 / 44
p0 52.89 ± 0.05648
65
60
55
50
45
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

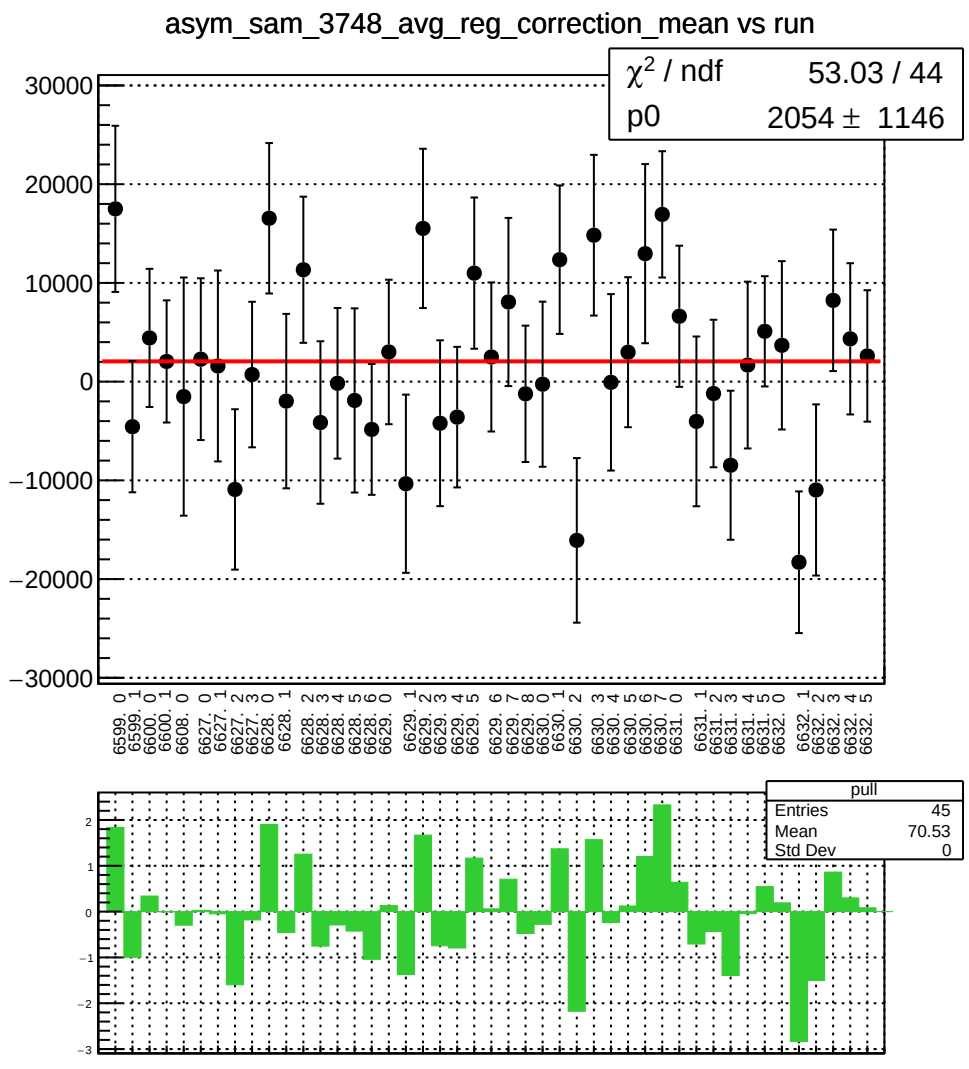

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 59.42 / 44
p0 1.274e−14 ± 1.906e−14
1.5
1
0.5
0
−0.5
−1
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 9.89
Std Dev 8.796
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.08109
Std Dev 1.146
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

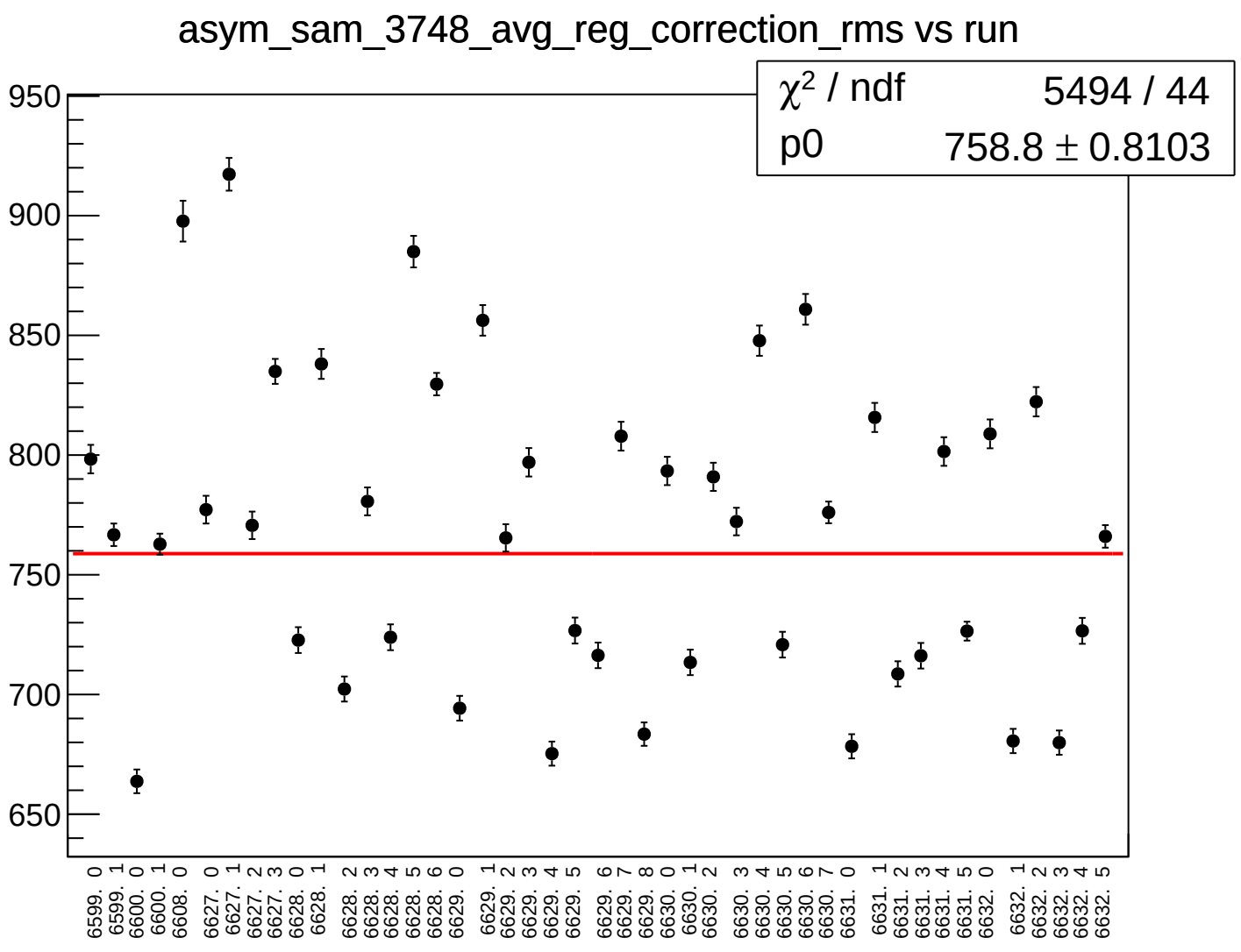

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10−12
70
60
50
40
30
20
10
χ2 / ndf 2.57e+05 / 44
p0 1.066e−11 ± 1.348e−14
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

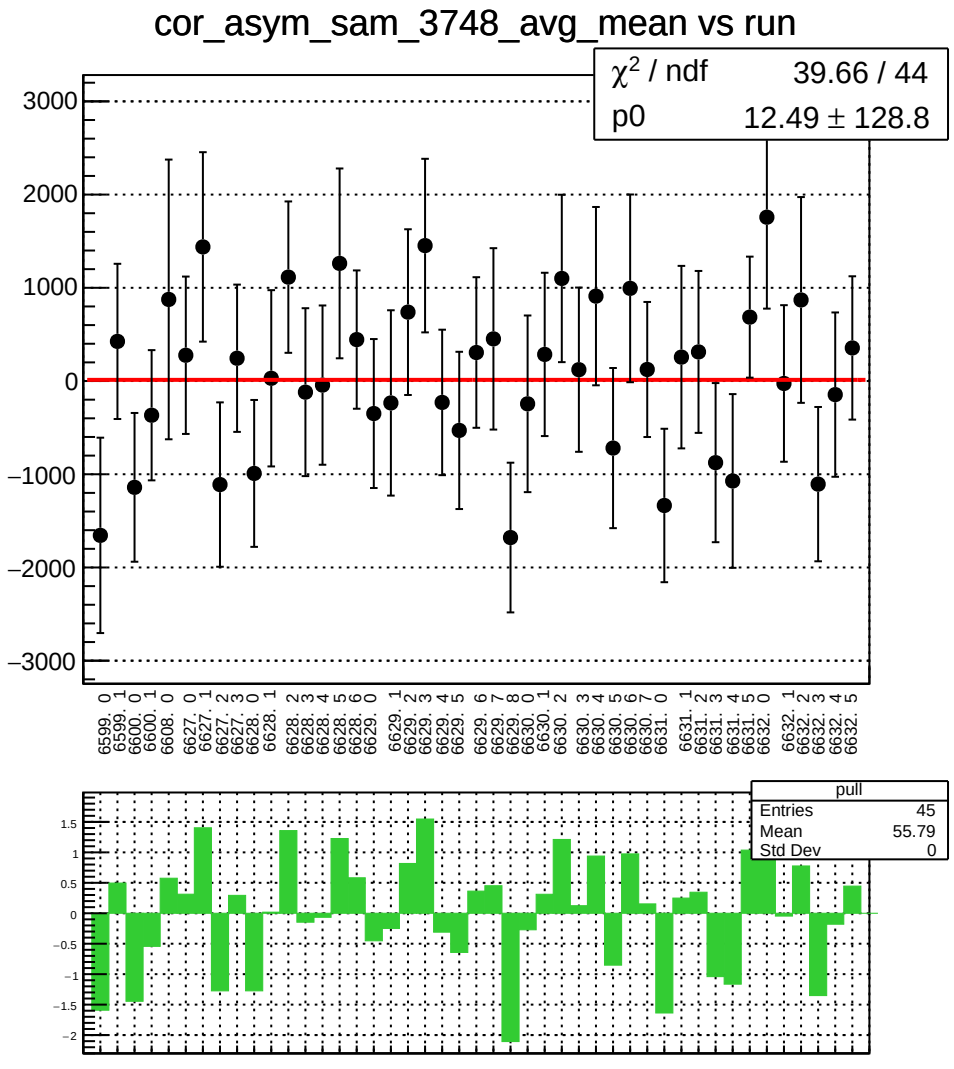

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 39.65 / 44
p0 12.48 ± 128.8
3000
2000
1000
0
−1000
−2000
−3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 55.75
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

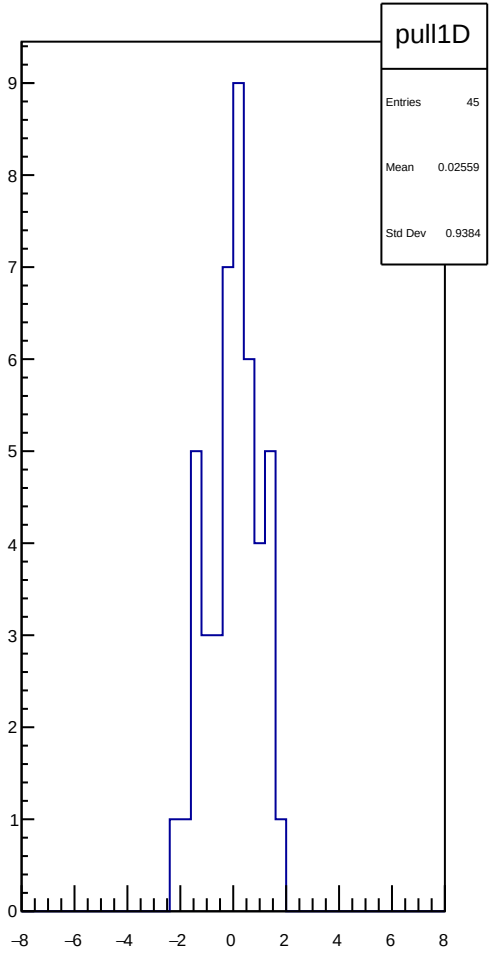

pull1D
Entries 45
Mean 0.0256
Std Dev 0.9384
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

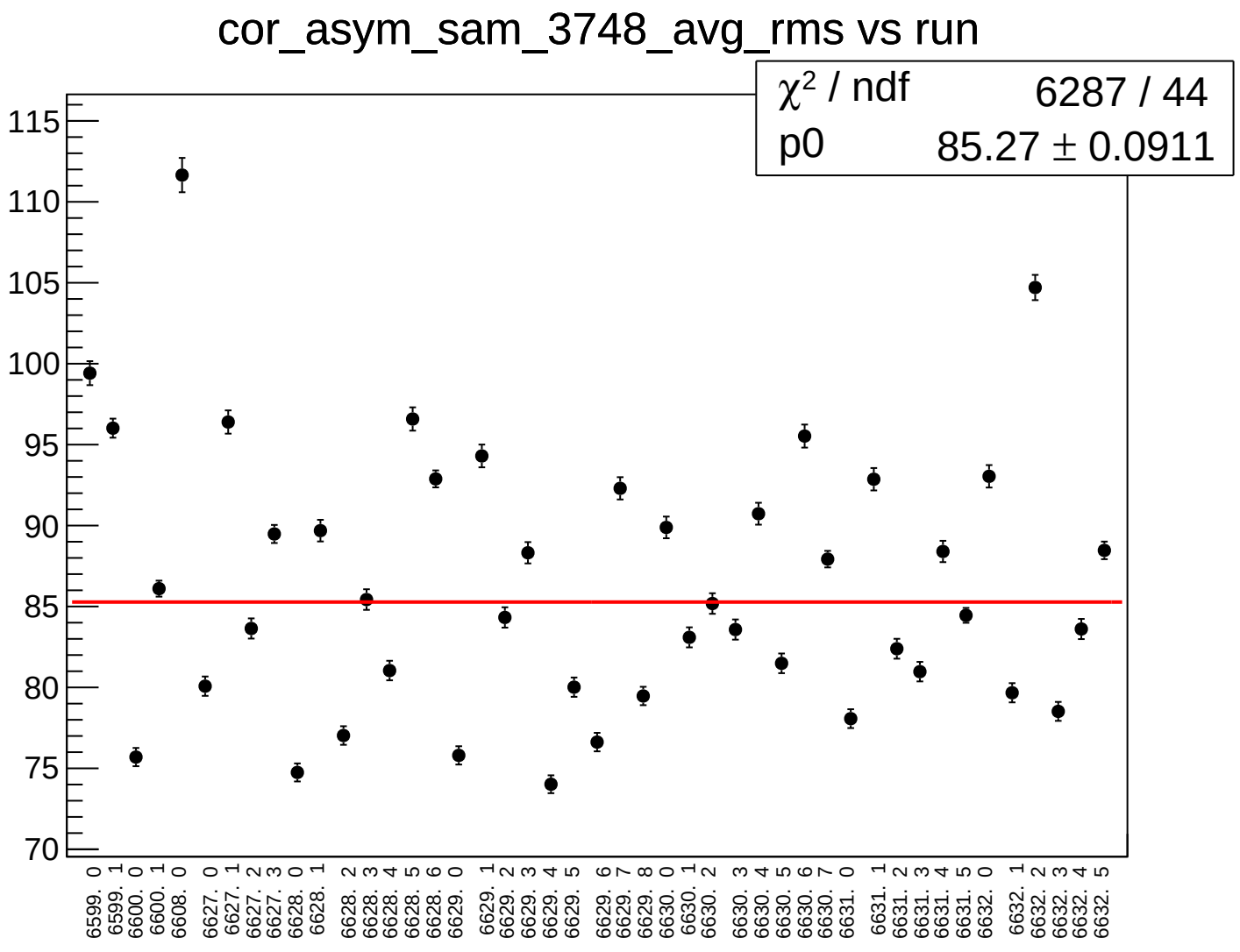

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 6287 / 44
p0 85.27 ± 0.0911
115
110
105
100
95
90
85
80
75
70
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

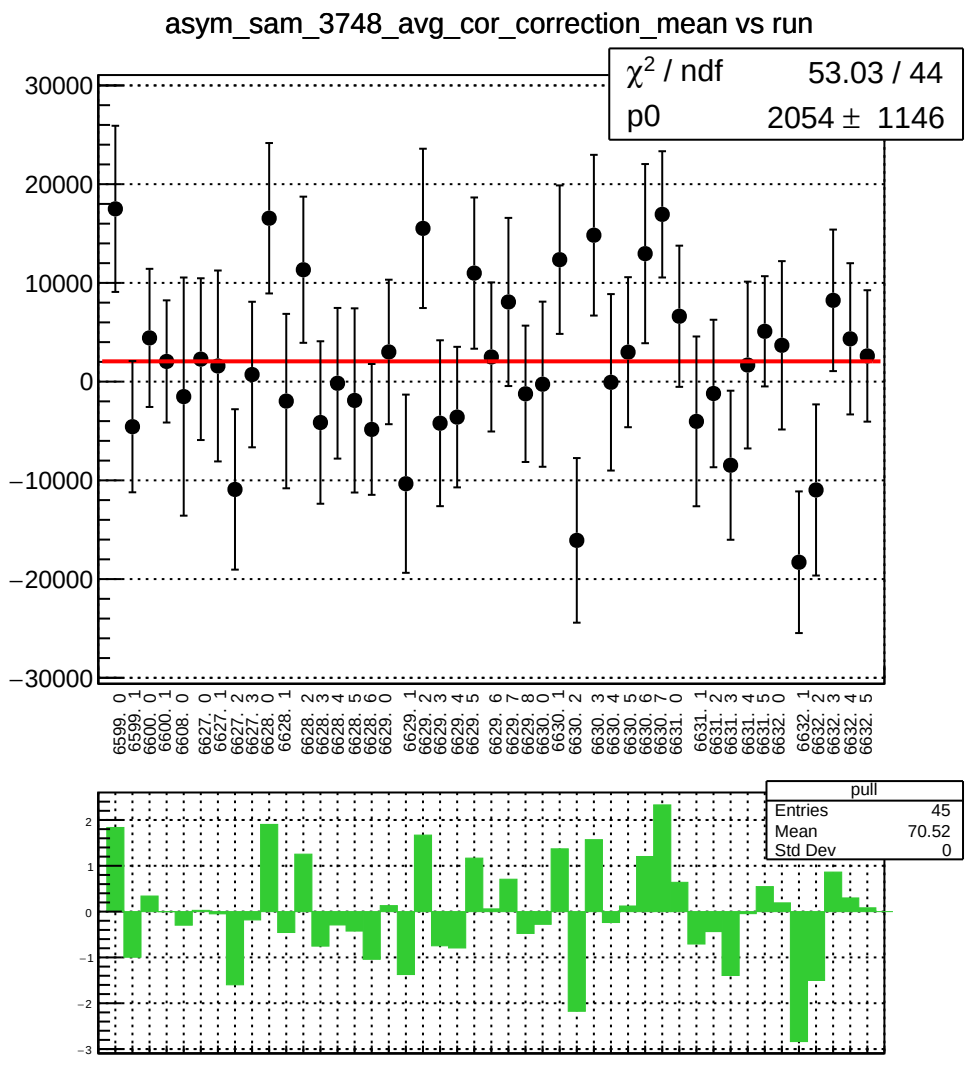

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 53.03 / 44
p0 2054 ± 1146
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 70.53
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.01738
Std Dev 1.085
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

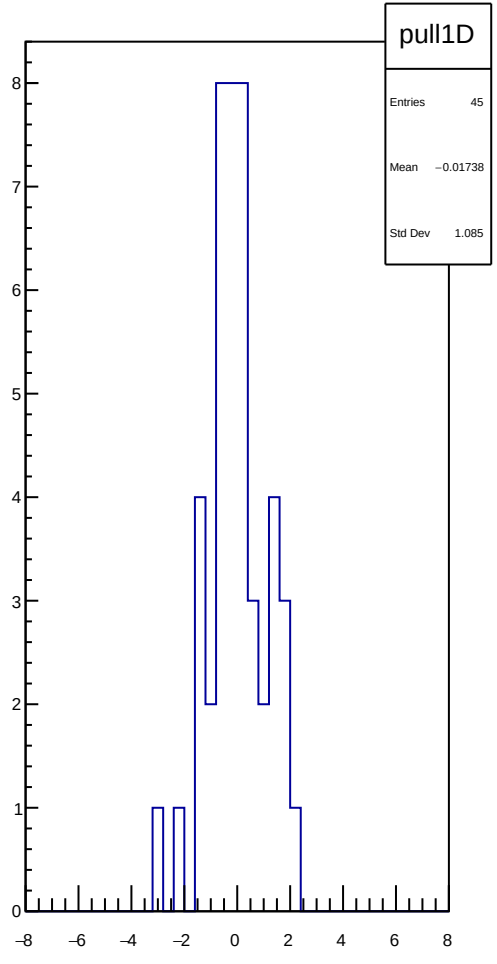

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 5494 / 44
p0 758.8 ± 0.8103
950
900
850
800
750
700
650
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

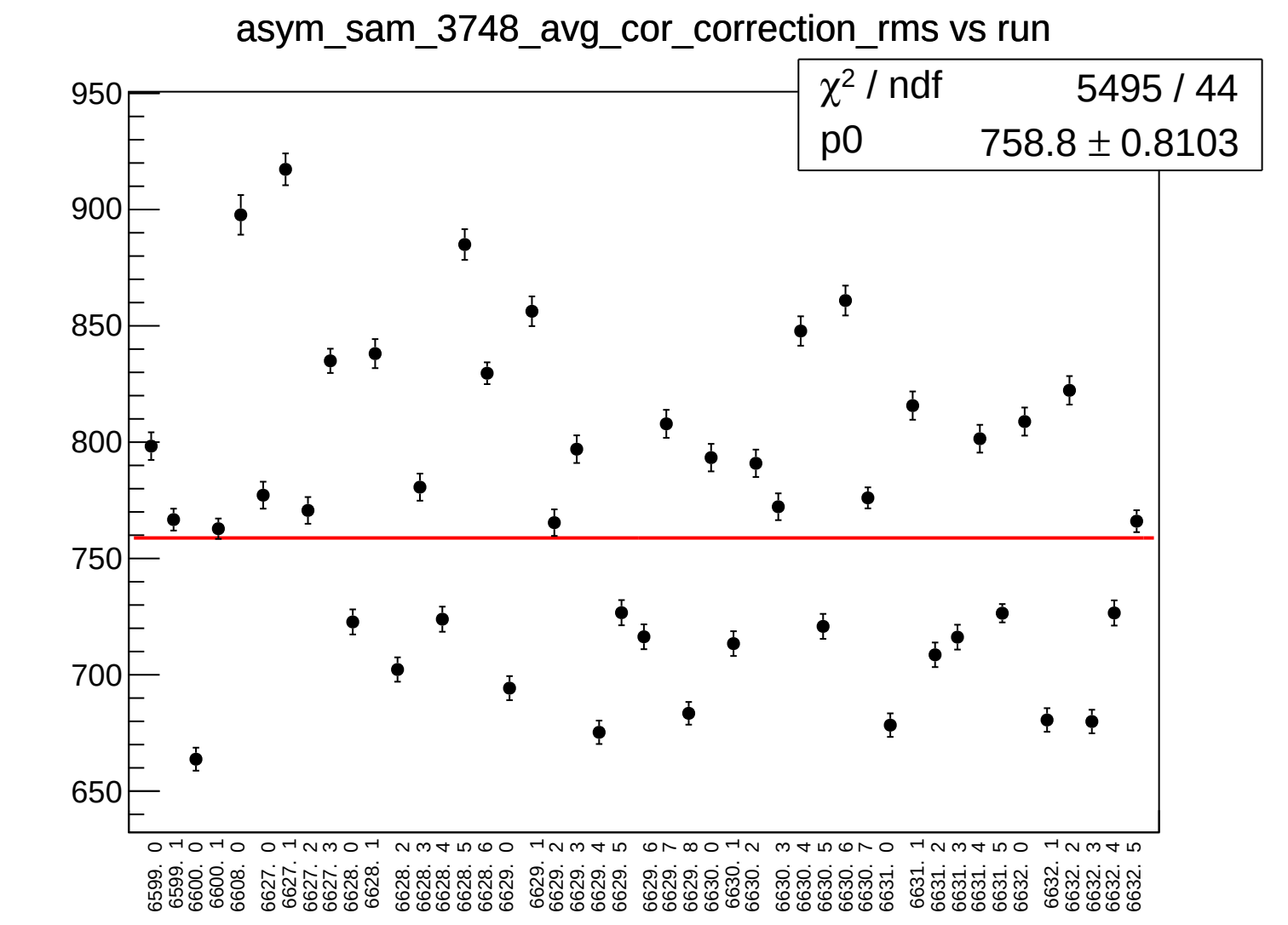

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 39.66 / 44
p0 12.49 ± 128.8
3000
2000
1000
0
−1000
−2000
−3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 55.79
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.02559
Std Dev 0.9384
9
8
7
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 6287 / 44
p0 85.27 ± 0.0911
115
110
105
100
95
90
85
80
75
70
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 53.03 / 44
p0 2054 ± 1146
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 70.52
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.01738
Std Dev 1.085
8
7
6
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 5495 / 44
p0 758.8 ± 0.8103
950
900
850
800
750
700
650
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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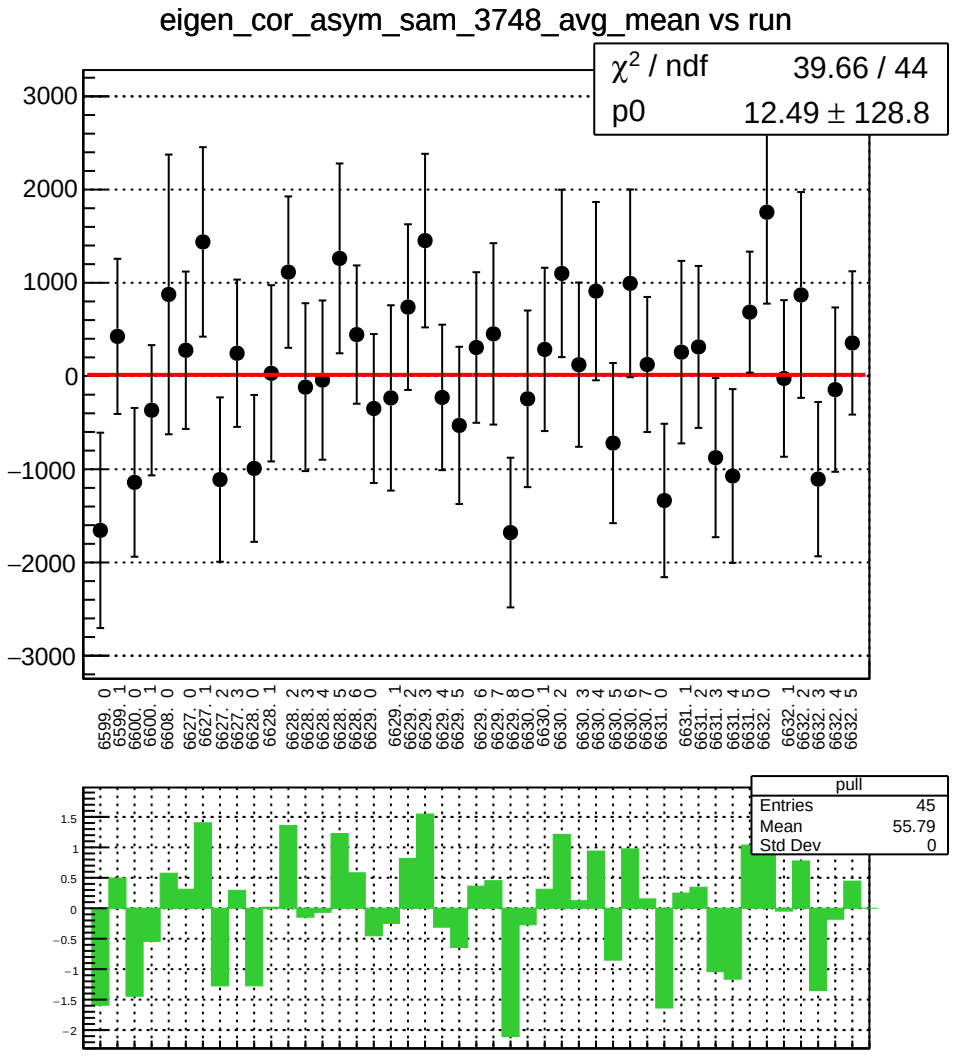
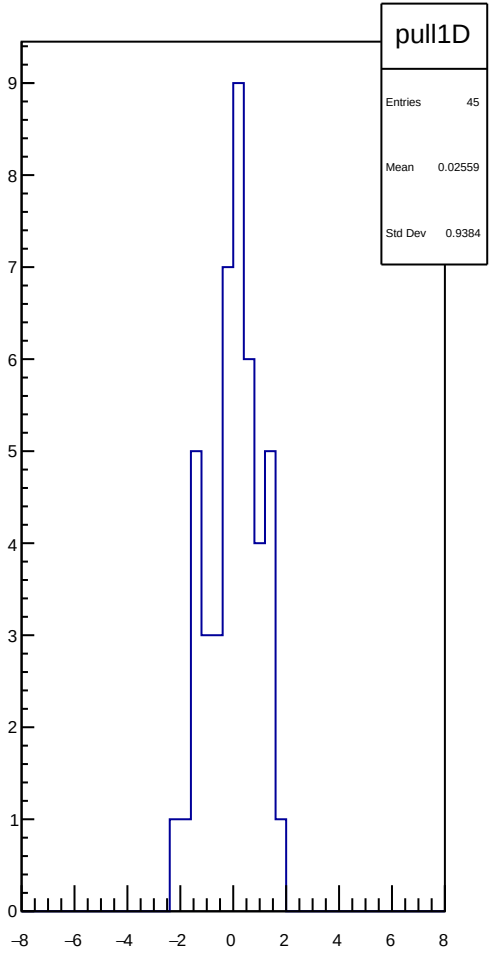
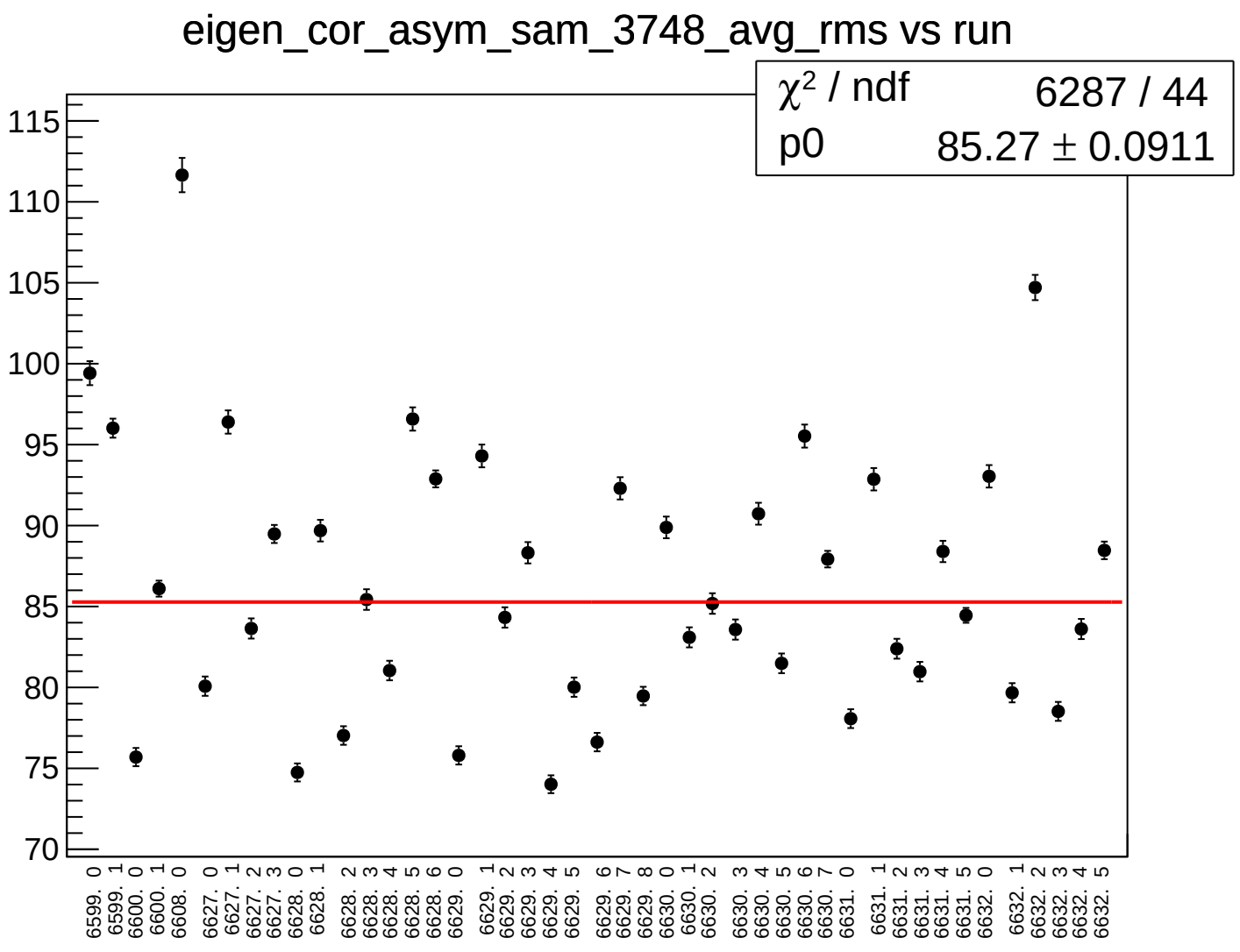
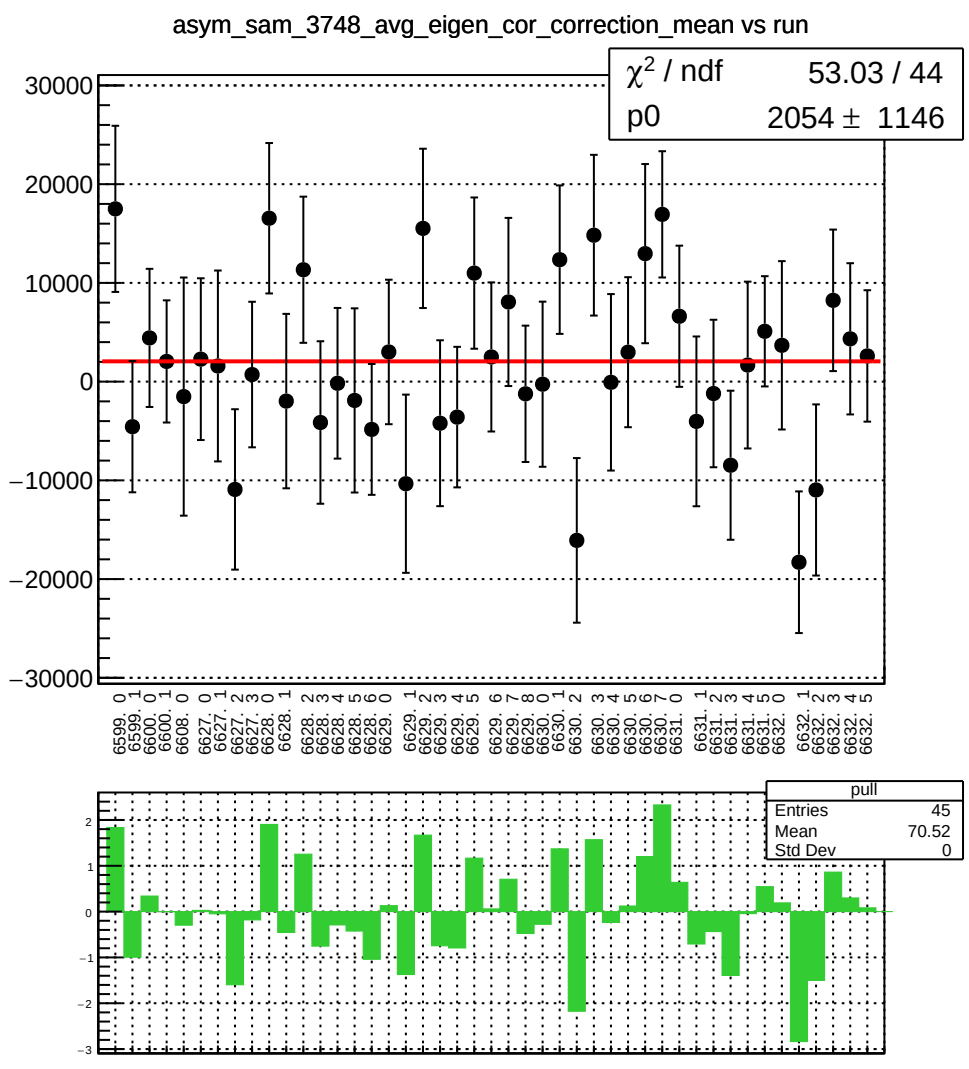
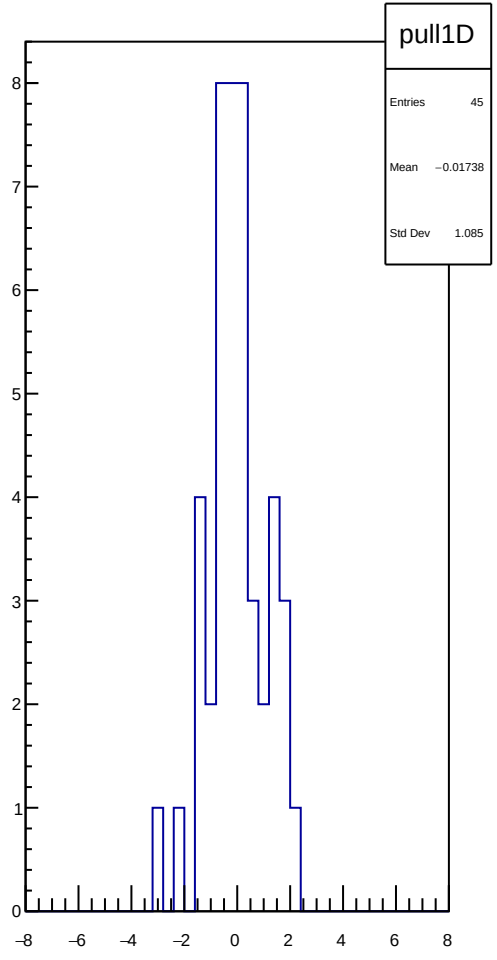
6632. 2
6632. 3
6632. 4
6632. 5

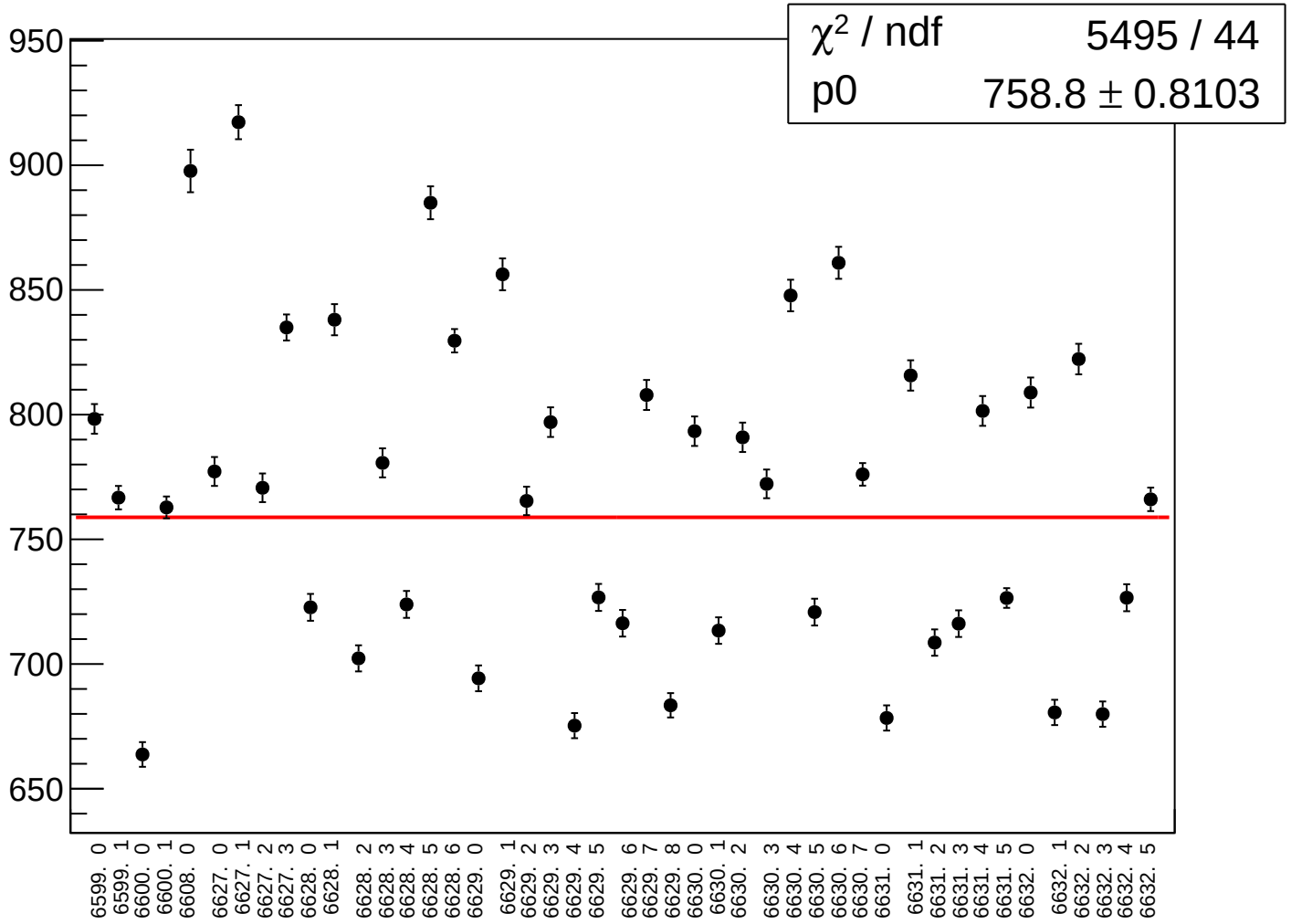

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 39.66 / 44
p0 12.49 ± 128.8
3000
2000
1000
0
−1000
−2000
−3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 55.79
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

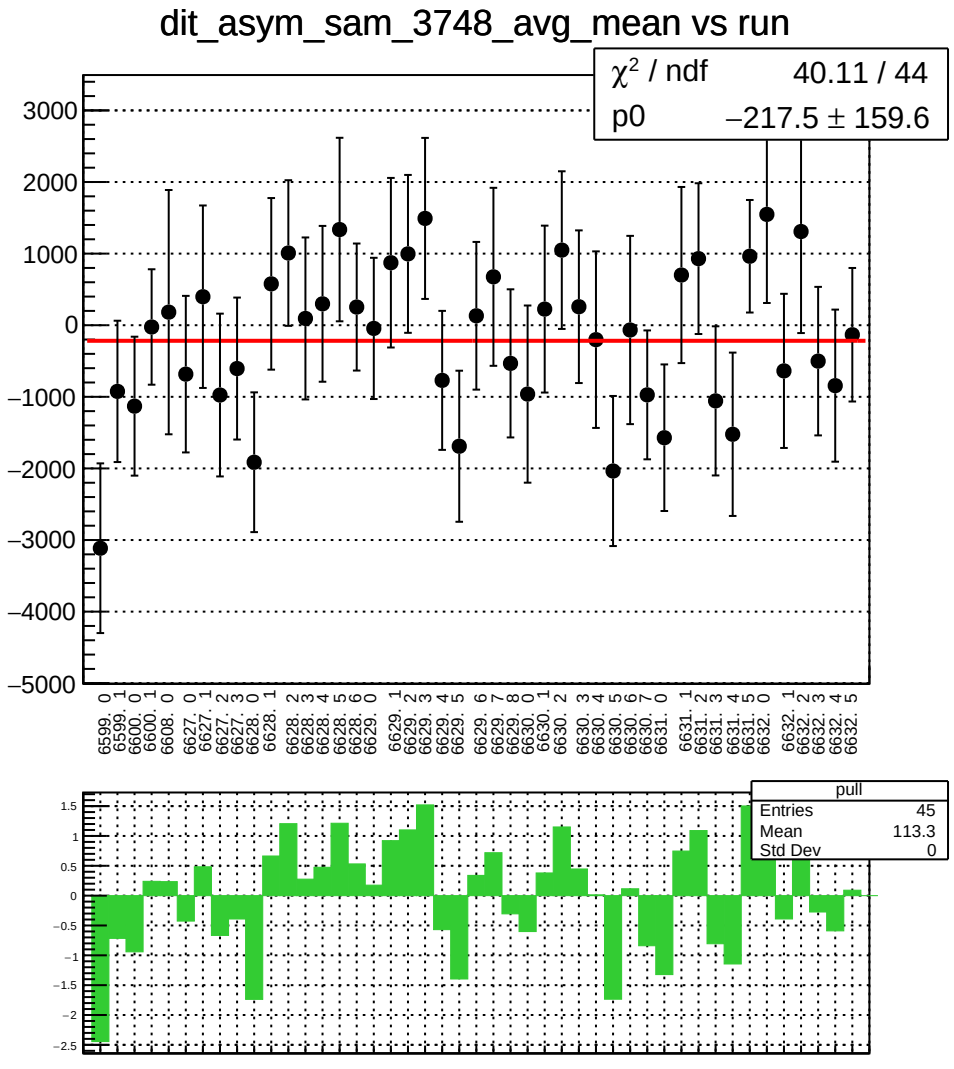

pull1D
Entries 45
Mean 0.02559
Std Dev 0.9384
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

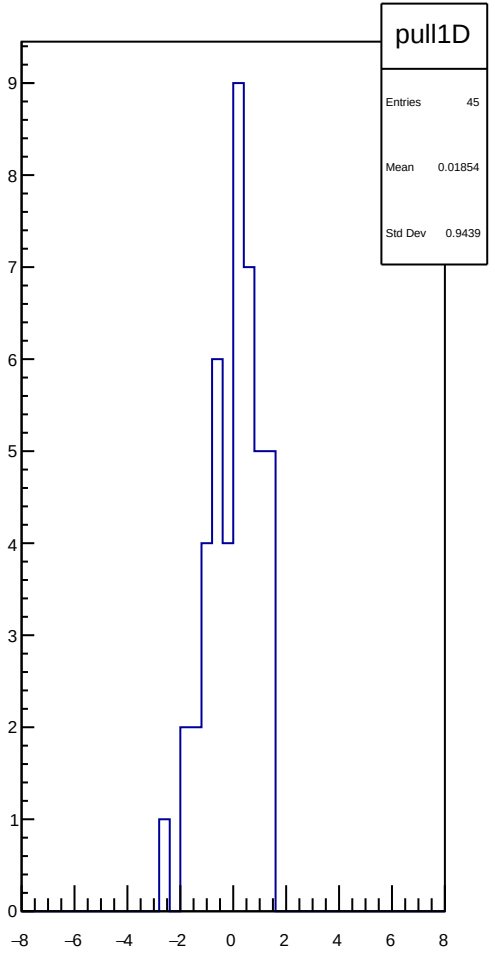

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 6287 / 44
p0 85.27 ± 0.0911
115
110
105
100
95
90
85
80
75
70
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

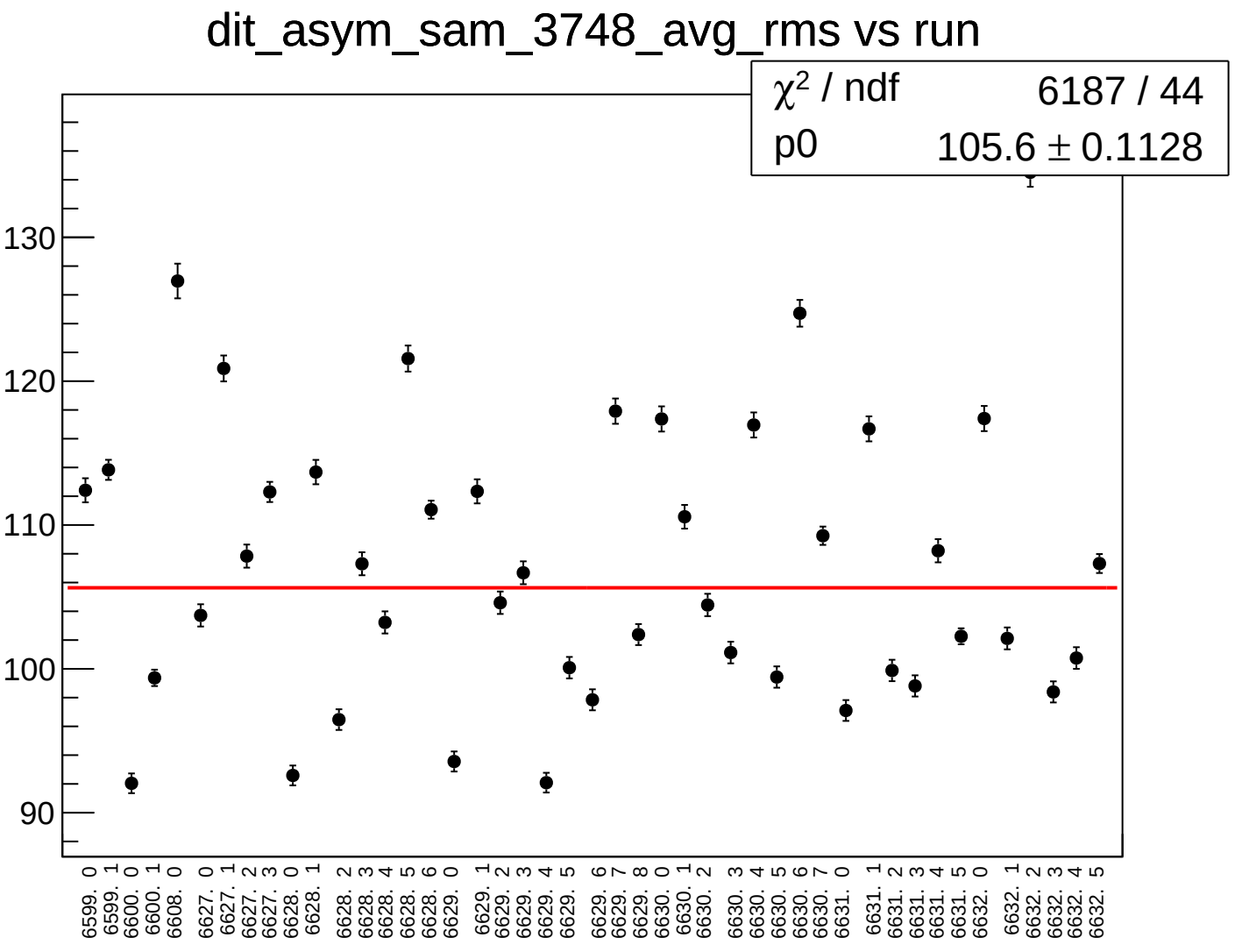

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 53.03 / 44
p0 2054 ± 1146
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 70.52
Std Dev 0
2
1
0
−1
−2
−3

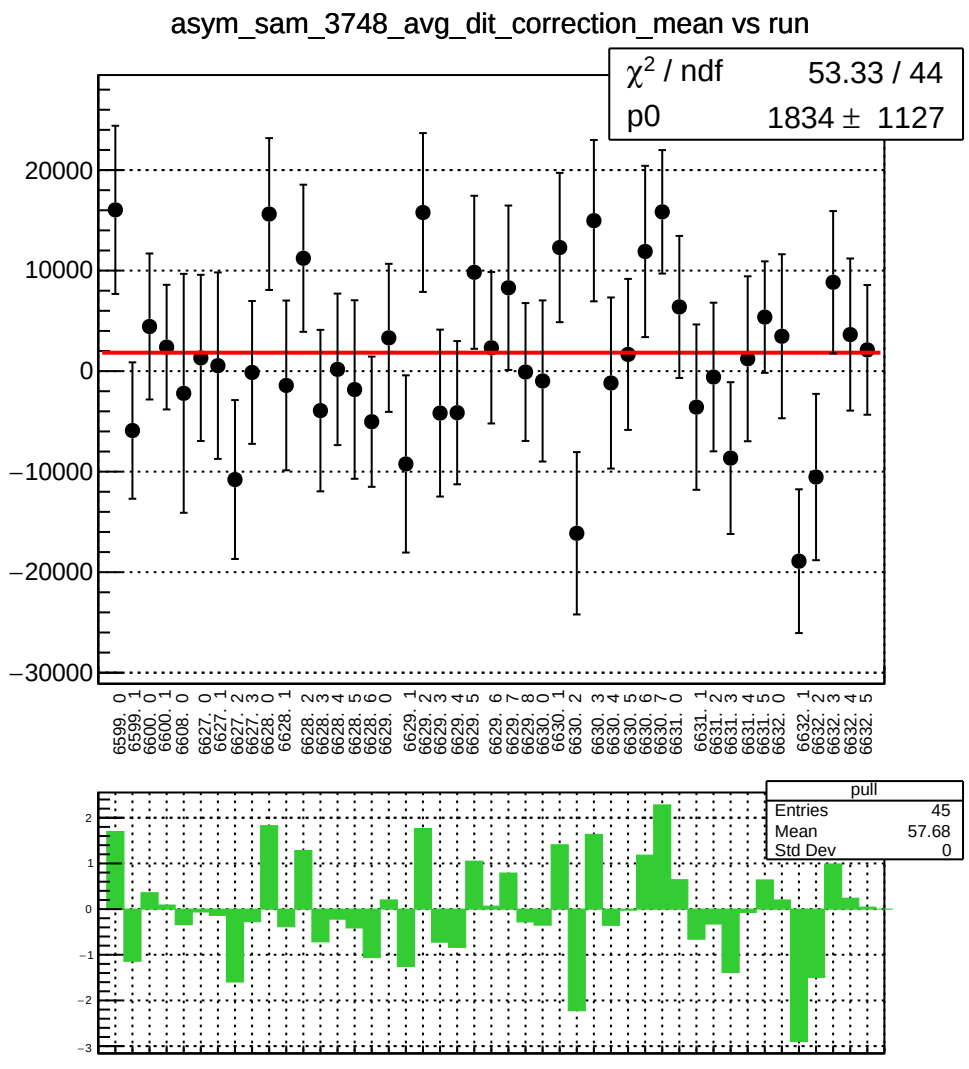

pull1D
Entries 45
Mean −0.01738
Std Dev 1.085
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

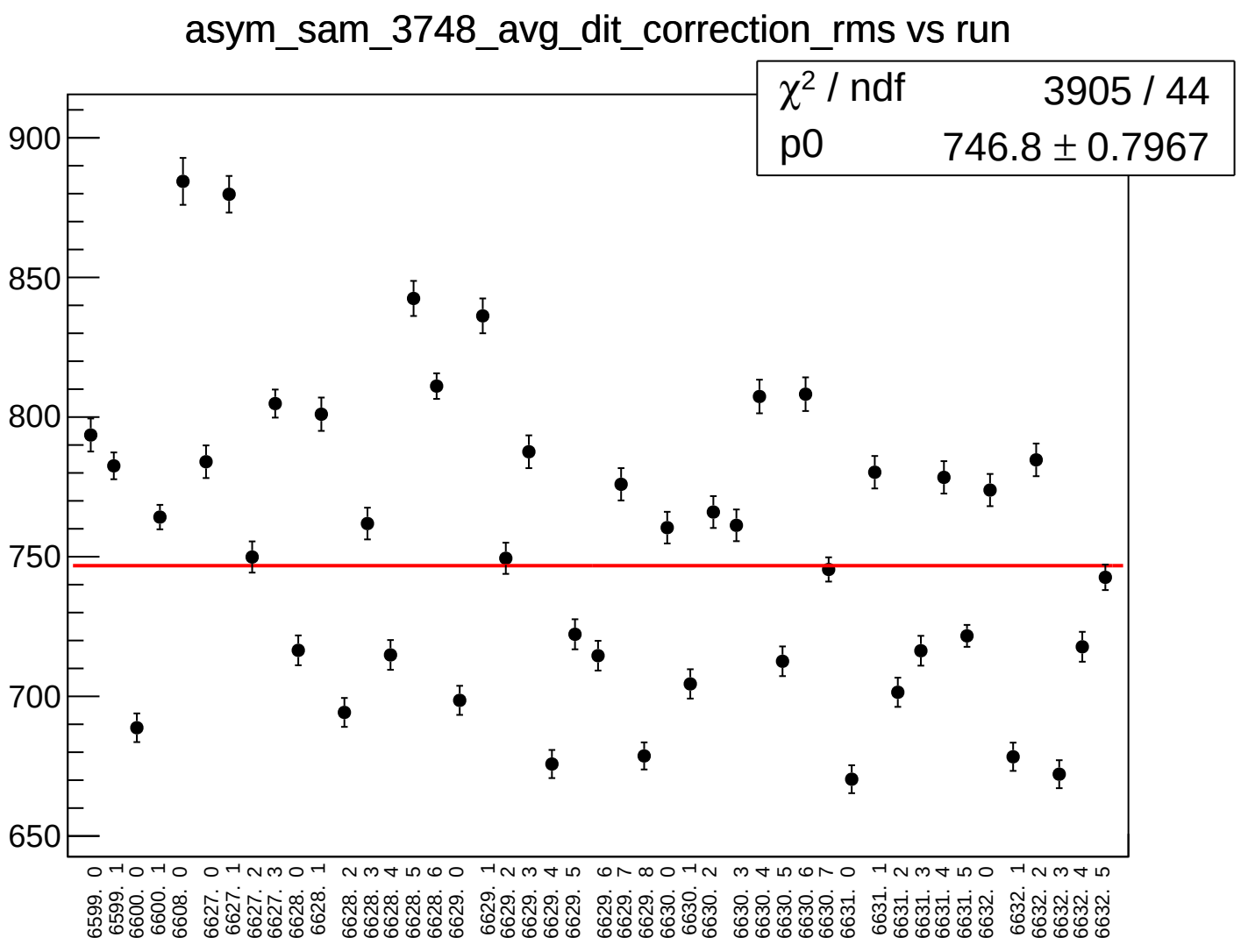

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 5495 / 44
p0 758.8 ± 0.8103
950
900
850
800
750
700
650
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


dit_asym_sam_3748_avg_mean vs run
χ² / ndf 40.11 / 44
p0 −217.5 ± 159.6
pull
Entries 45
Mean 113.3
Std Dev 0


pull1D
Entries 45
Mean 0.01854
Std Dev 0.9439


dit_asym_sam_3748_avg_rms vs run
χ² / ndf 6187 / 44
p0 105.6 ± 0.1128
130
120
110
100
90
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 53.33 / 44
p0 1834 ± 1127
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 57.68
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.01905
Std Dev 1.088
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 3905 / 44
p0 746.8 ± 0.7967
900
850
800
750
700
650
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
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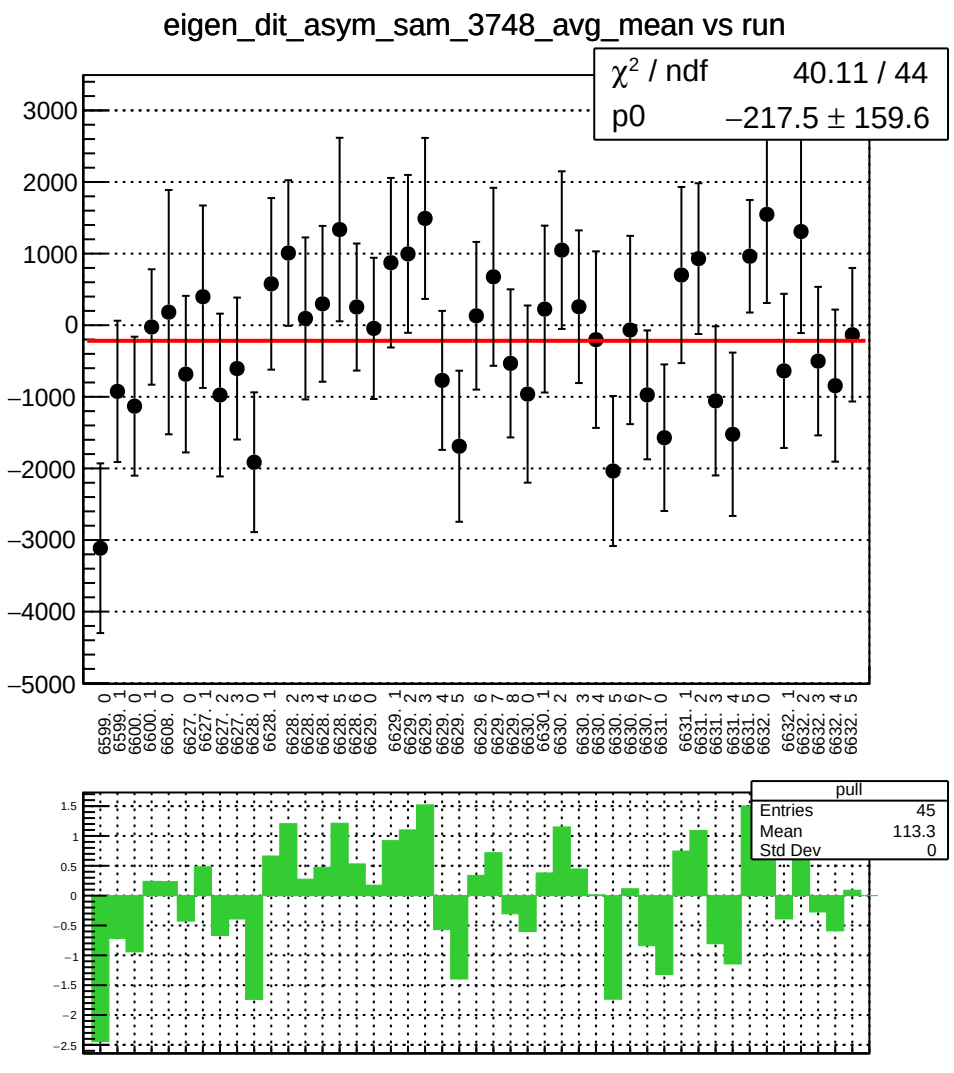
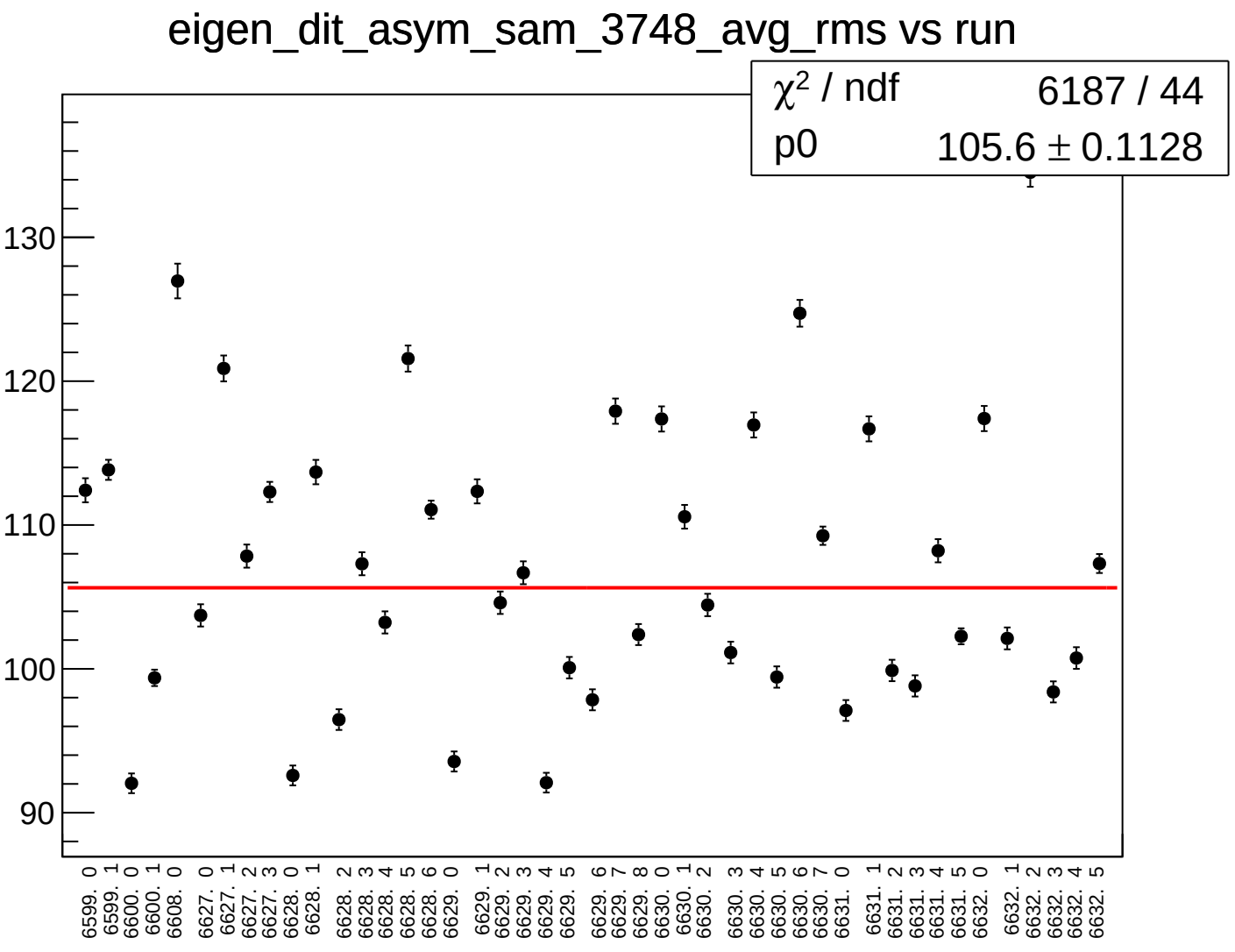
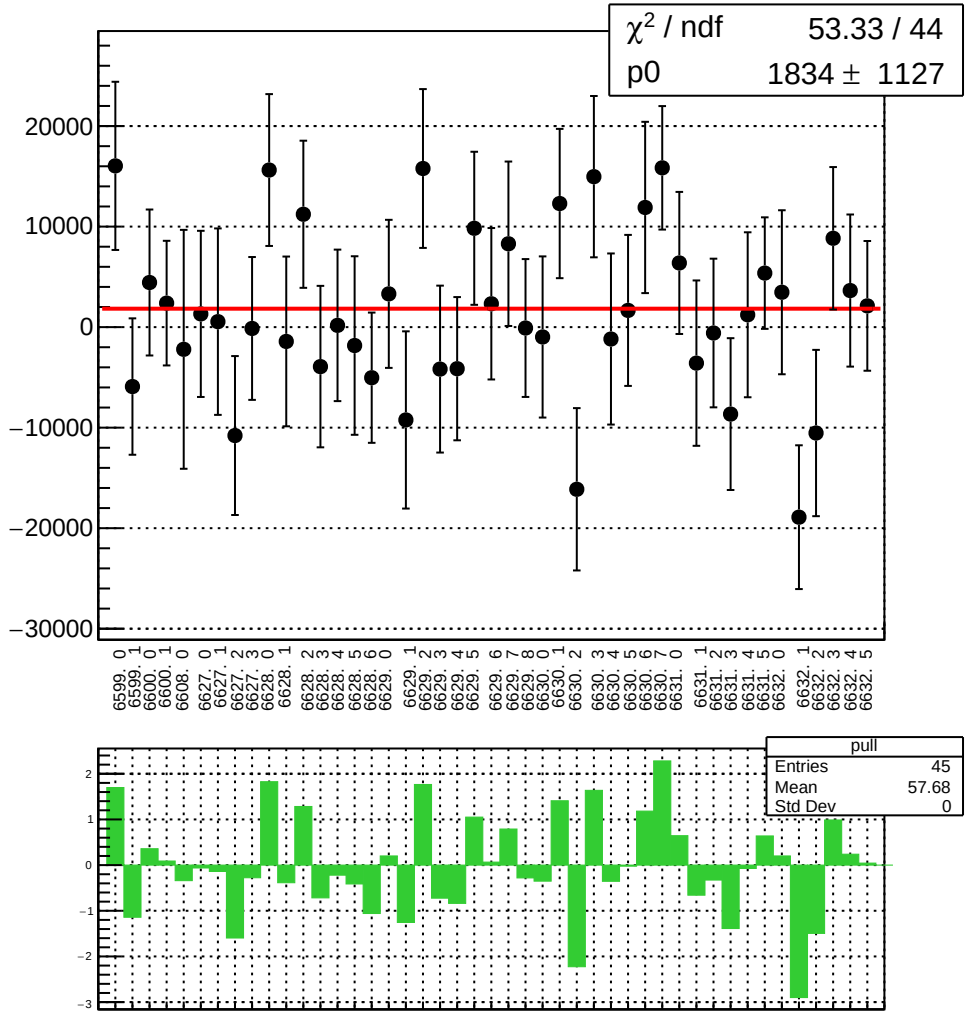
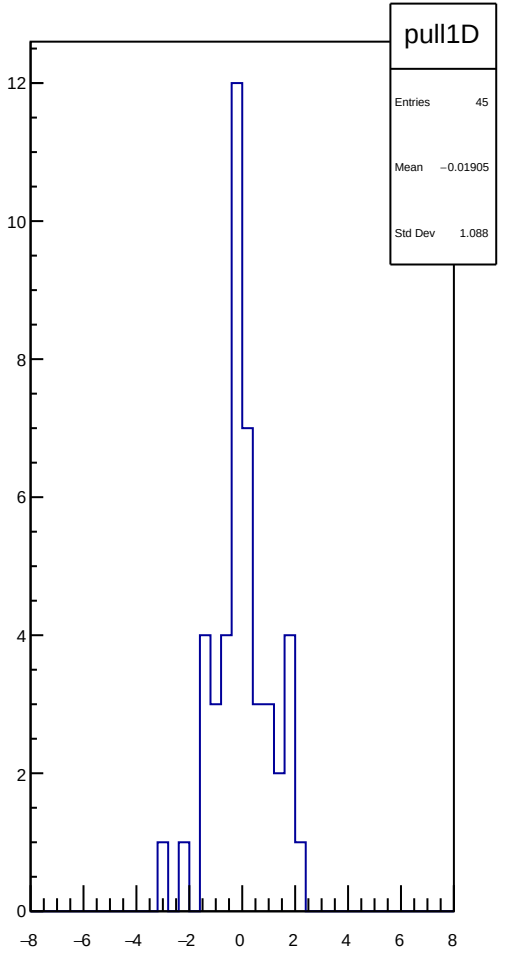
6632. 2
6632. 3
6632. 4
6632. 5

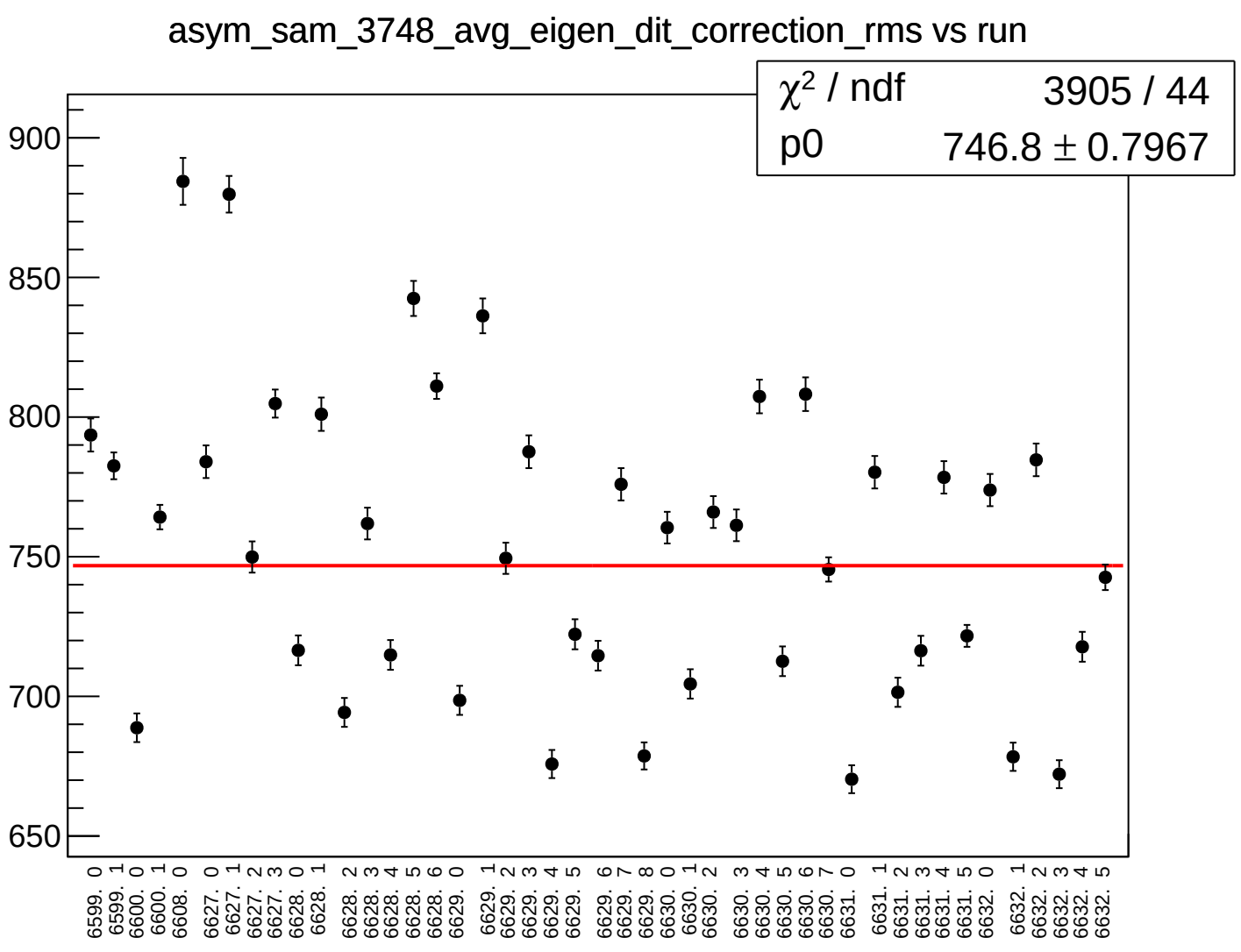

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 40.11 / 44
p0 −217.5 ± 159.6
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 113.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.01854
Std Dev 0.9439
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

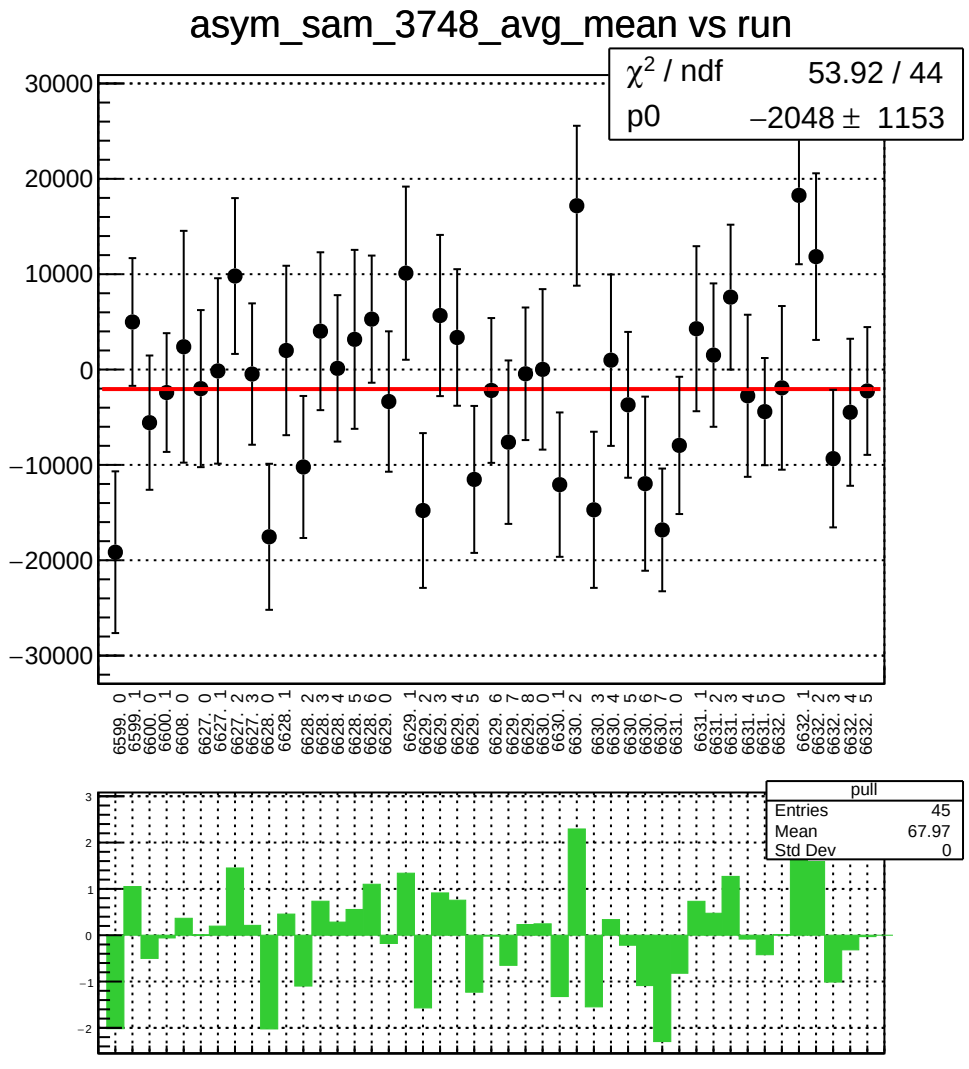

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 6187 / 44
p0 105.6 ± 0.1128
130
120
110
100
90
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

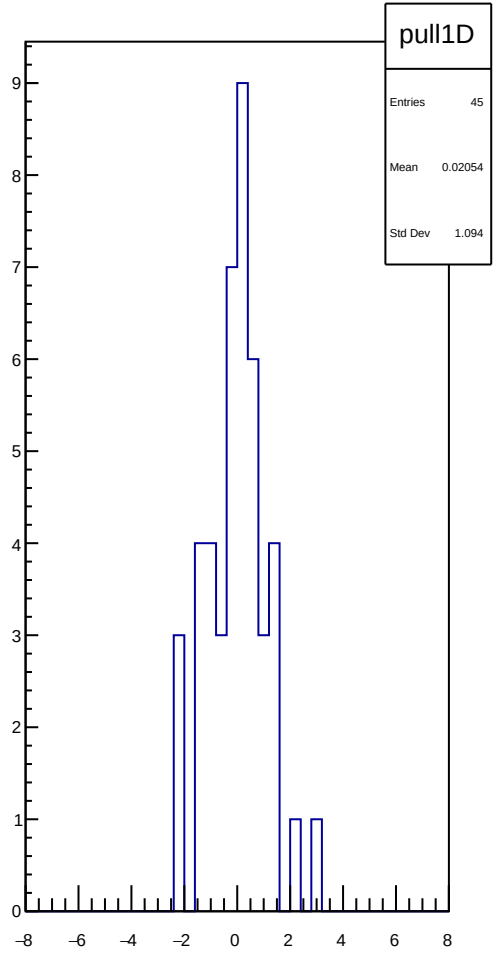
asym_sam_3748_avg_eigen_dit_correction_mean vs run

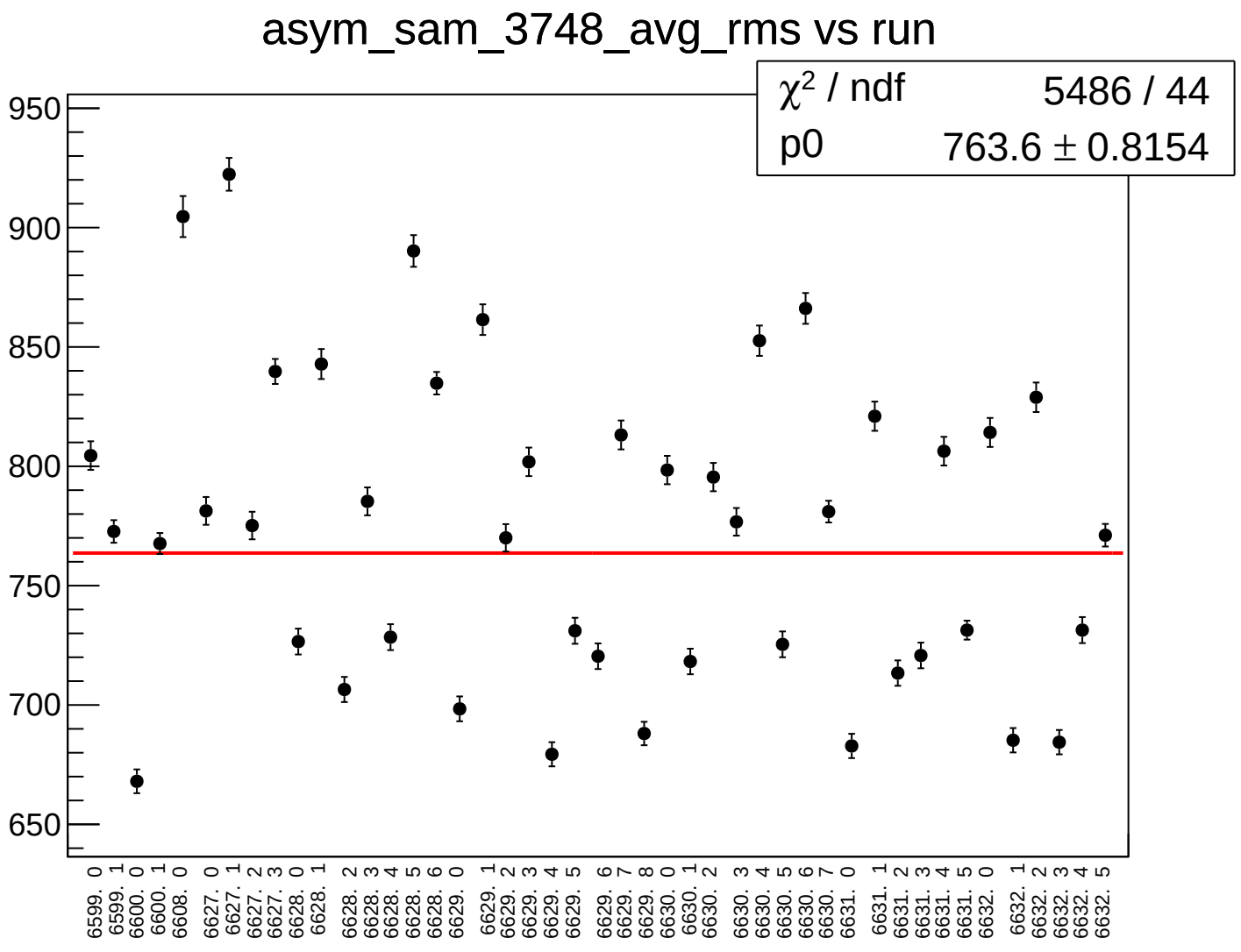


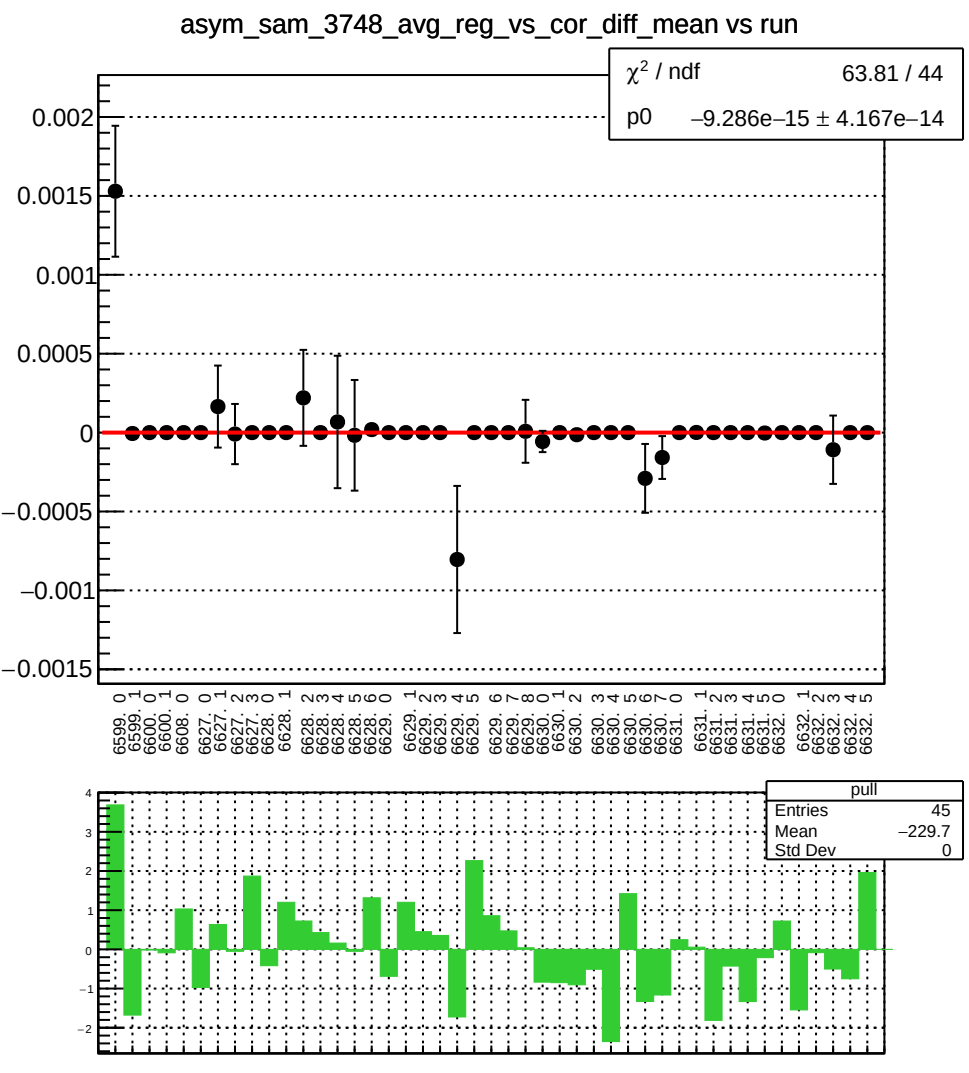



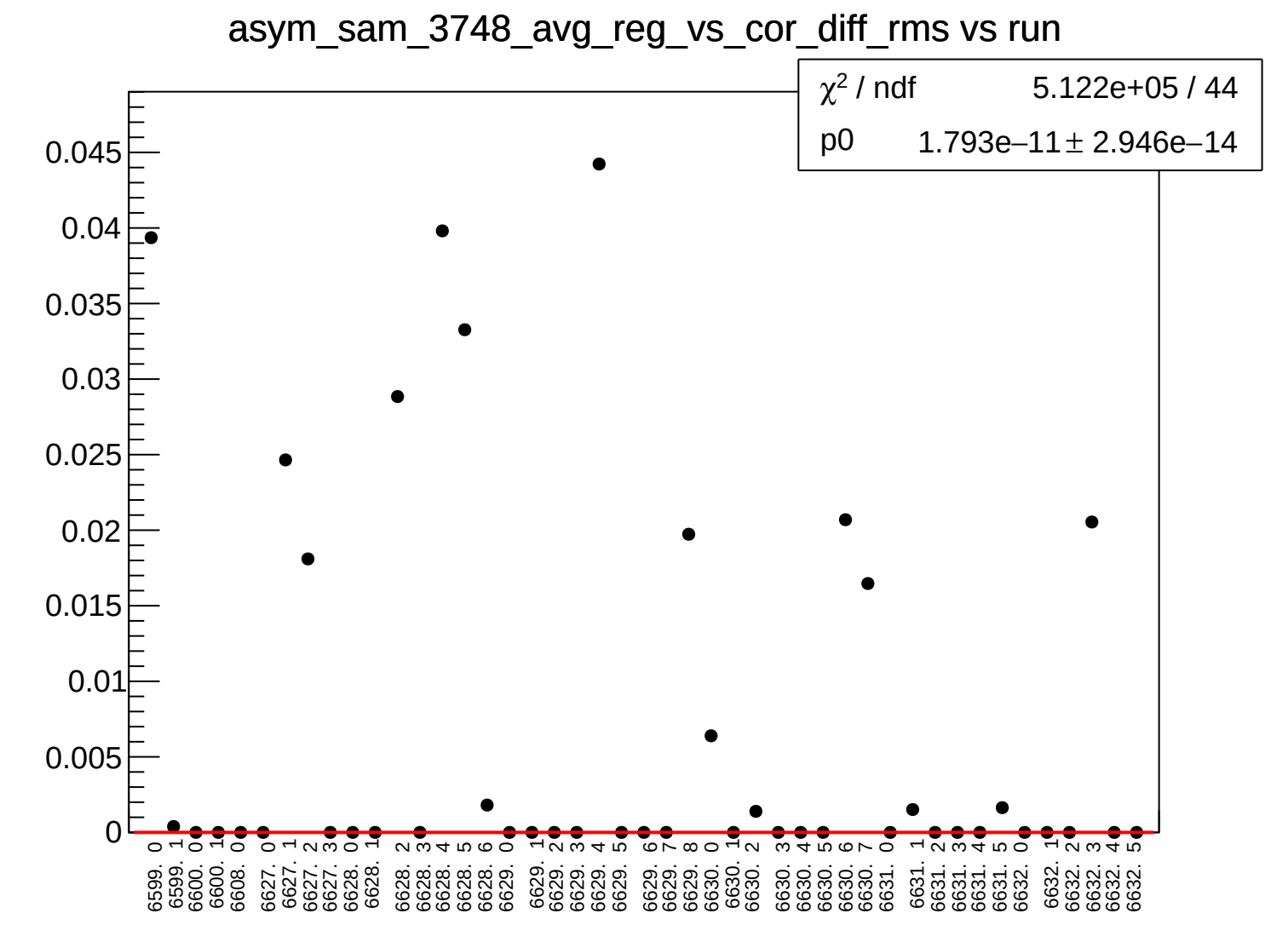

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 3905 / 44
p0 746.8 ± 0.7967
900
850
800
750
700
650
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_3748_avg_mean vs run
χ² / ndf 53.92 / 44
p0 −2048 ± 1153
30000
20000
10000
0
−10000
−20000
−30000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 67.97
Std Dev 0
3
2
1
0
−1
−2

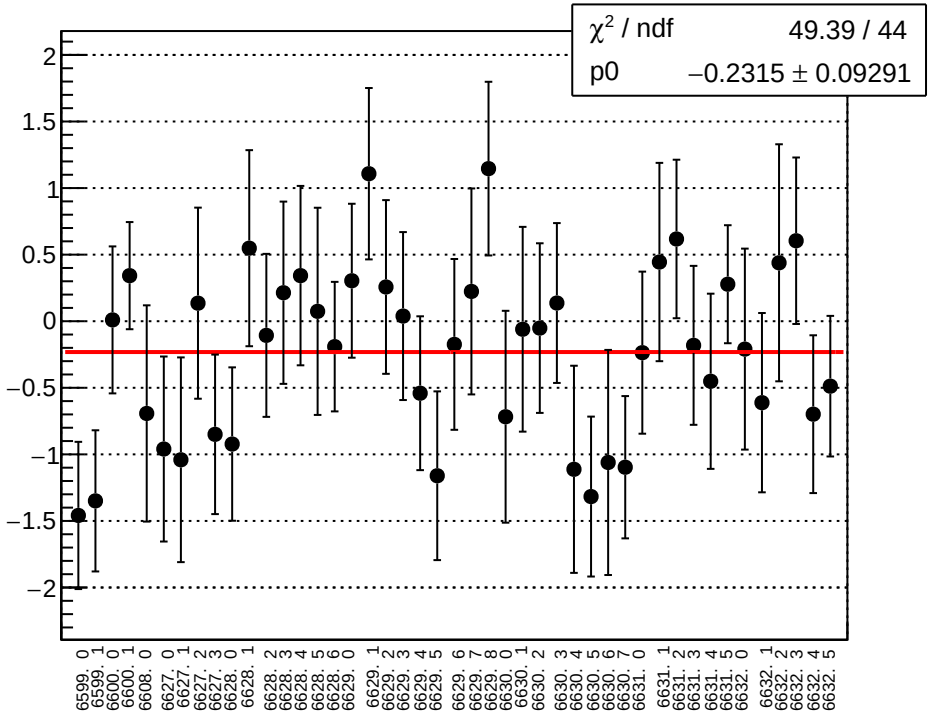

pull1D
Entries 45
Mean 0.02054
Std Dev 1.094
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

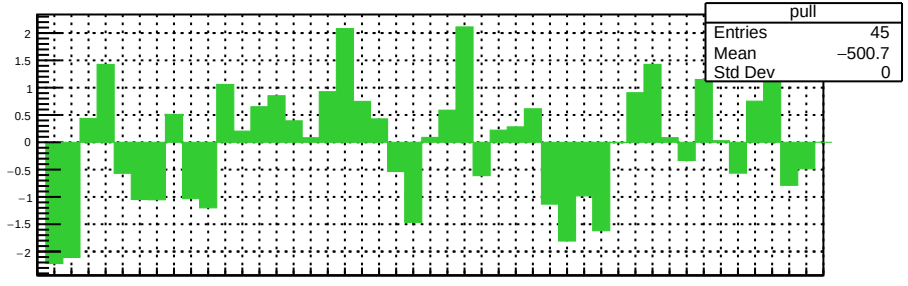

asym_sam_3748_avg_rms vs run
χ² / ndf 5486 / 44
p0 763.6 ± 0.8154
950
900
850
800
750
700
650
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

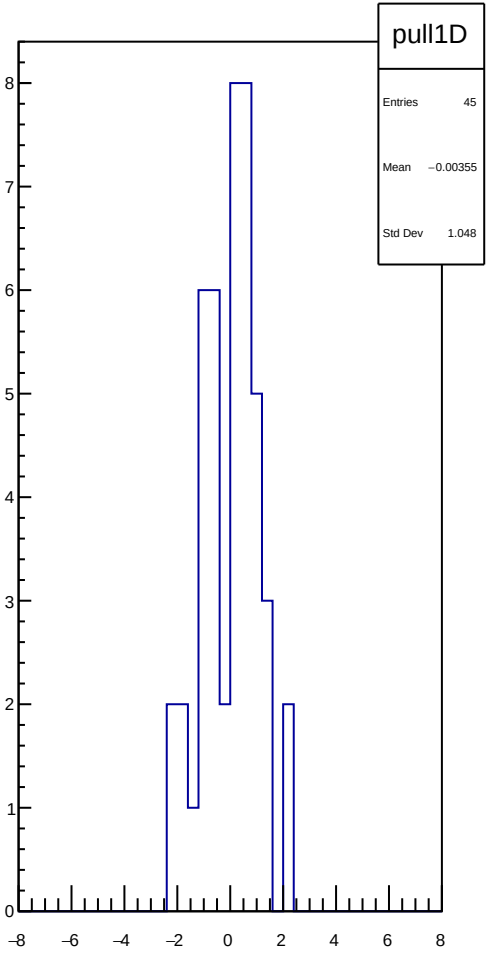

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 63.81 / 44
p0 −9.286e−15 ± 4.167e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −229.7
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01828
Std Dev 1.191
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

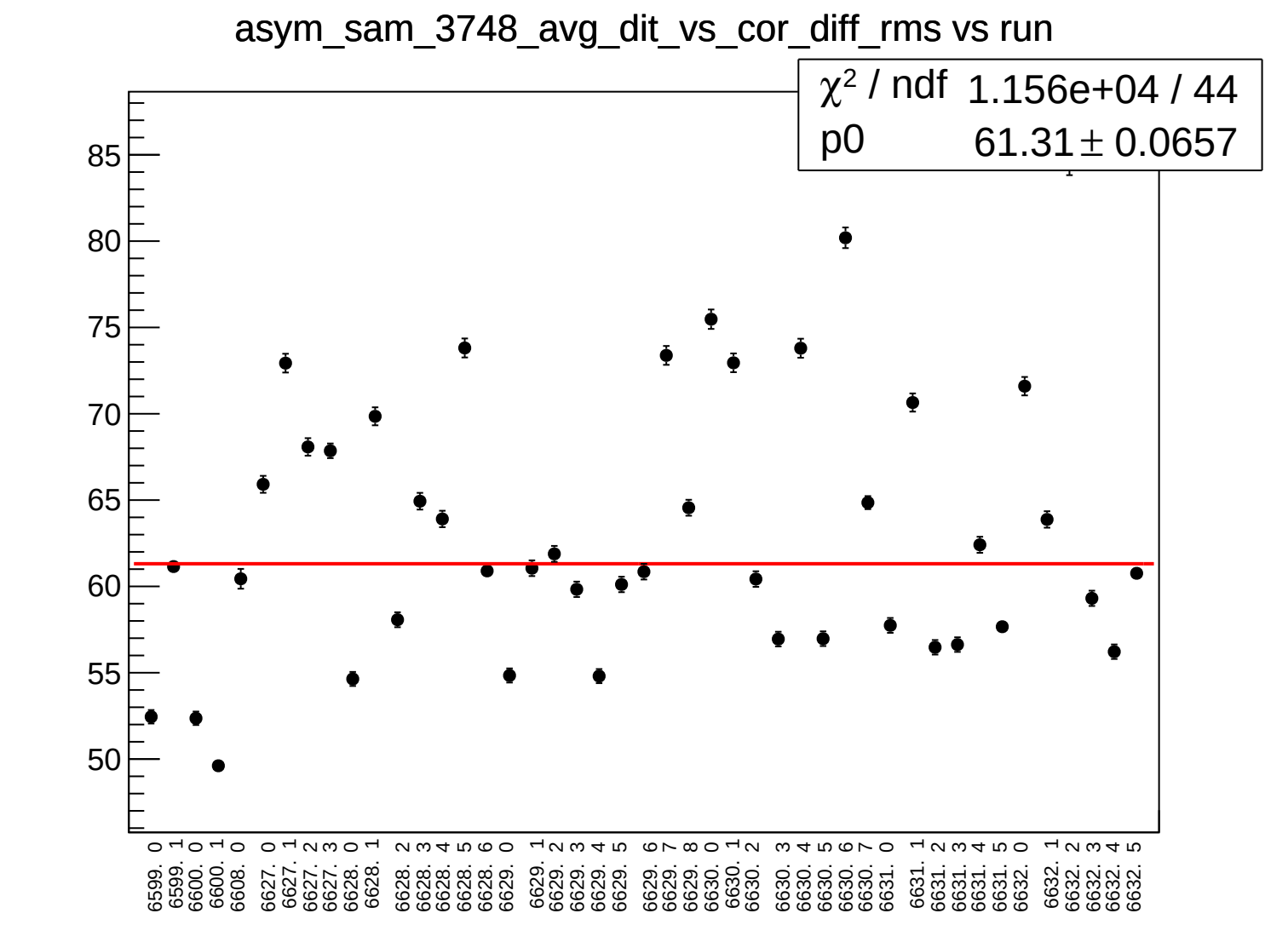

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.122e+05 / 44
p0 1.793e−11 ± 2.946e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

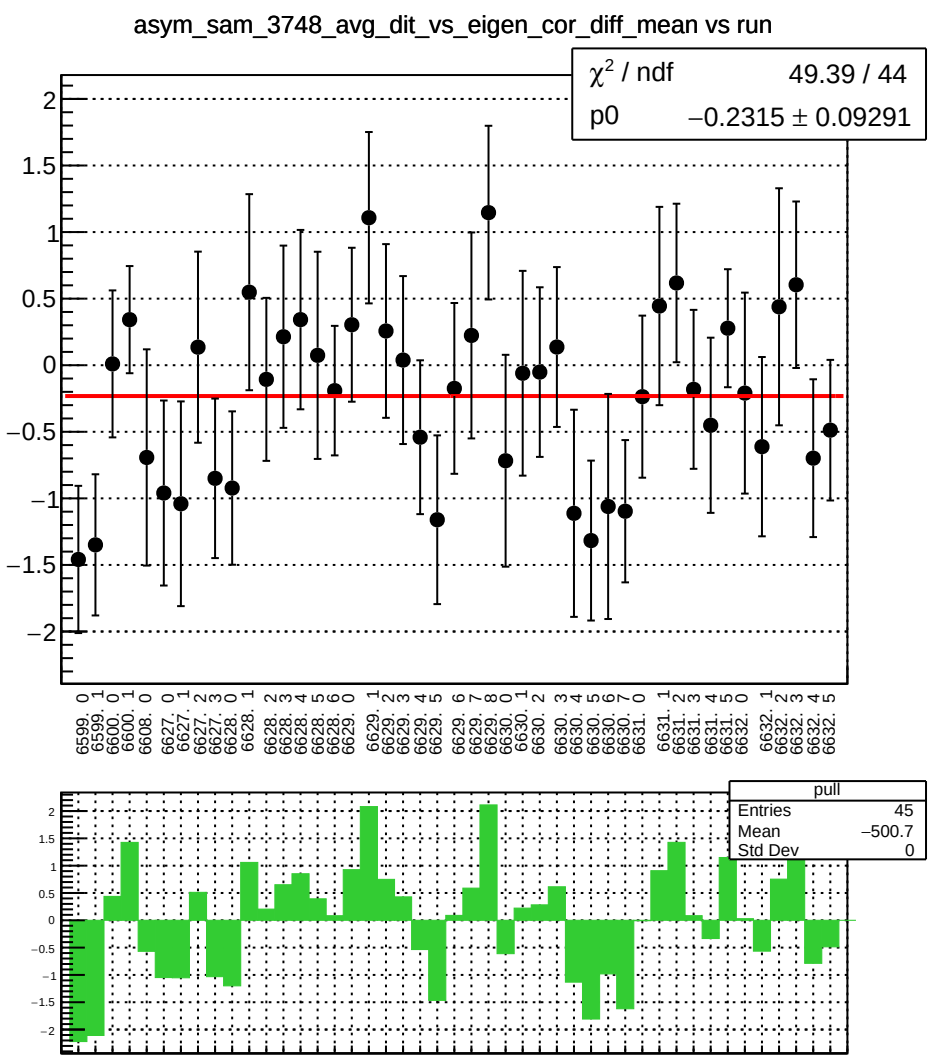
asym_sam_3748_avg_dit_vs_cor_diff_mean vs run

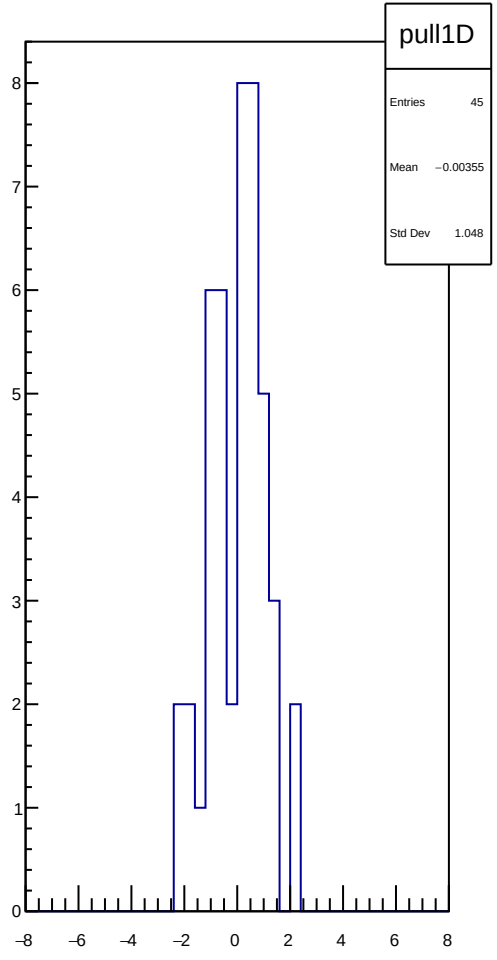


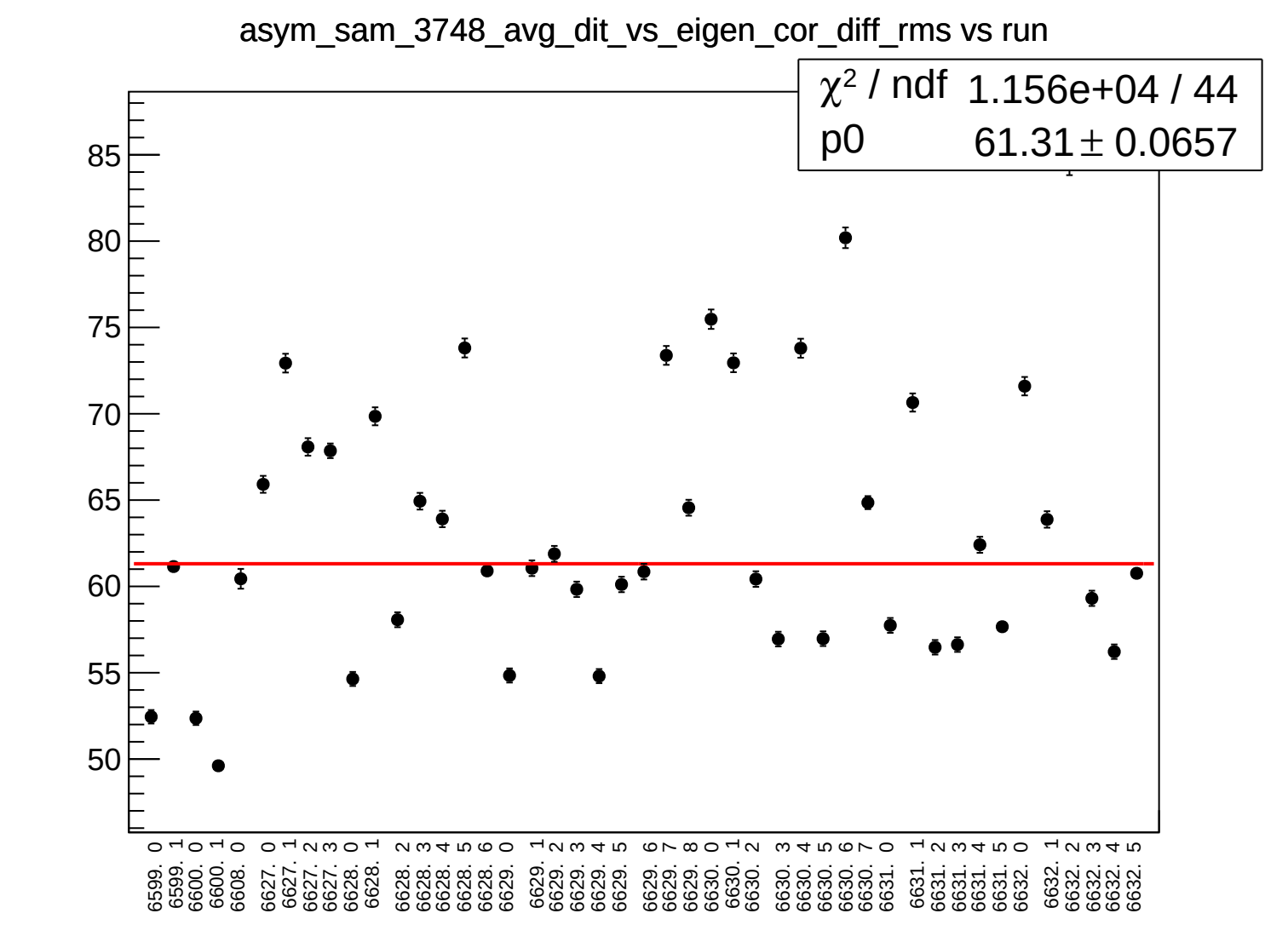



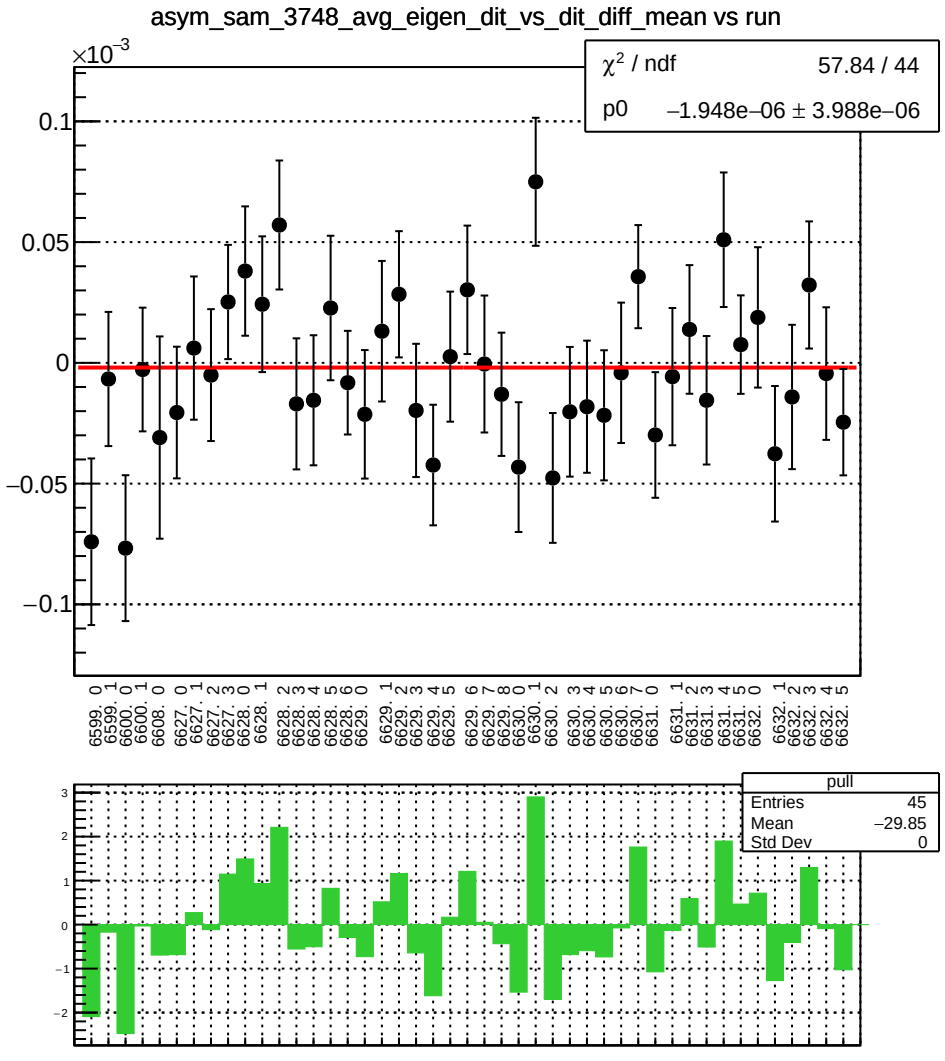



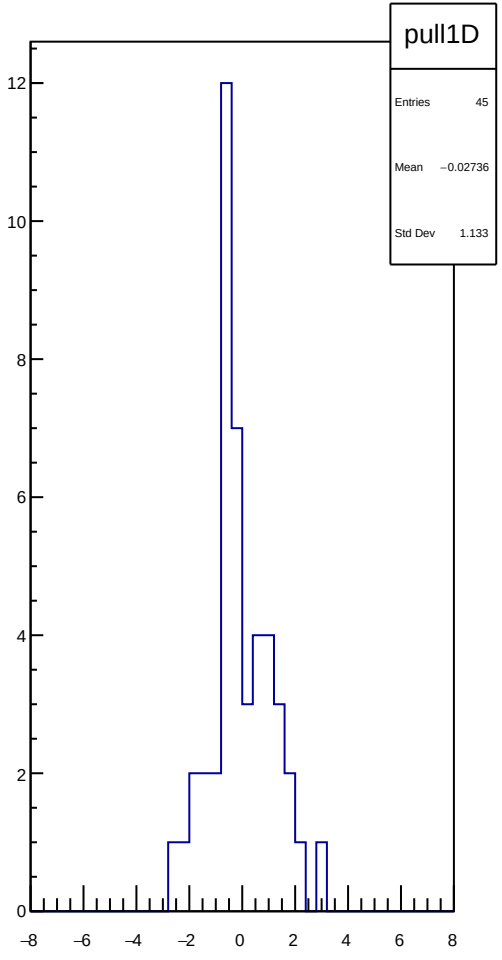

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.156e+04 / 44
p0 61.31 ± 0.0657
85
80
75
70
65
60
55
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

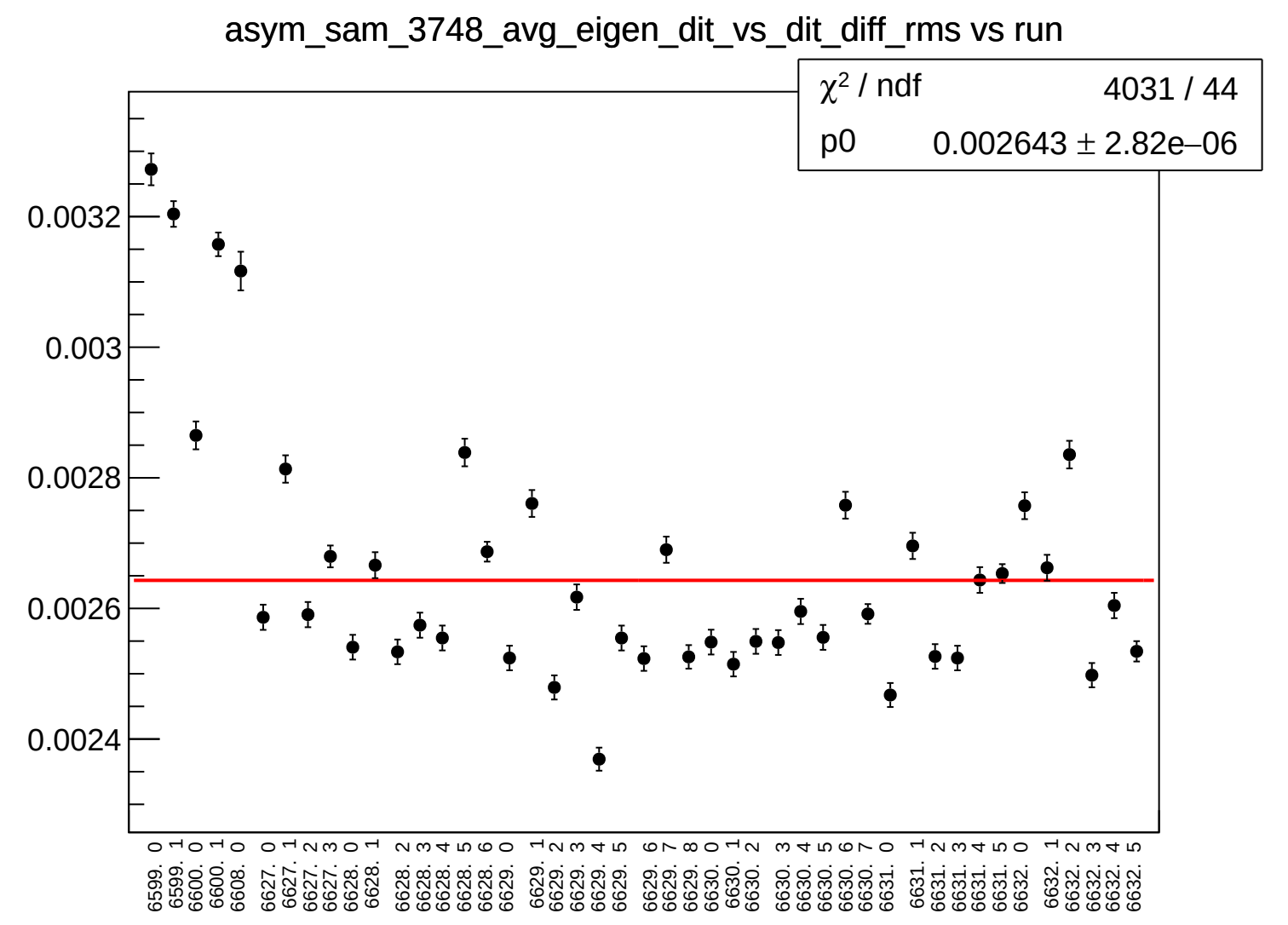

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.39 / 44
p0 −0.2315 ± 0.09291
pull
Entries 45
Mean −500.7
Std Dev 0

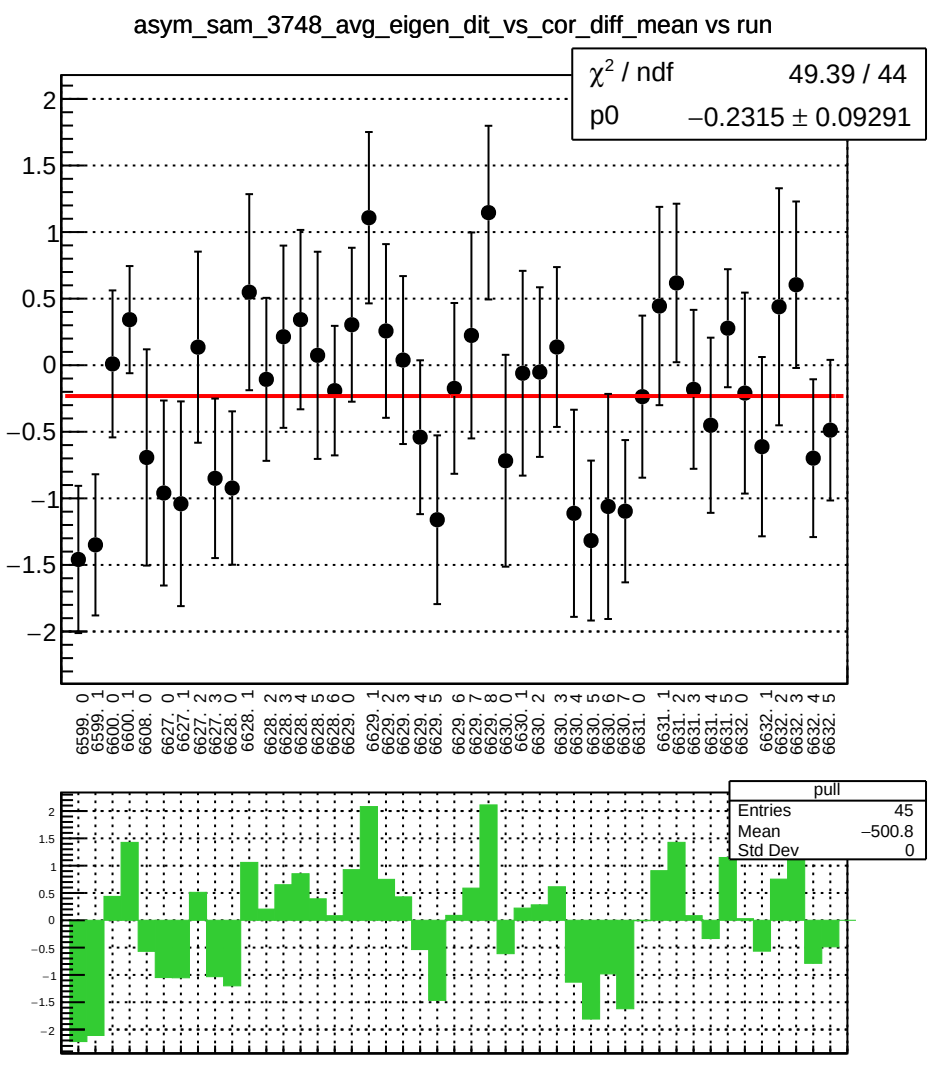

pull1D
Entries 45
Mean −0.00355
Std Dev 1.048

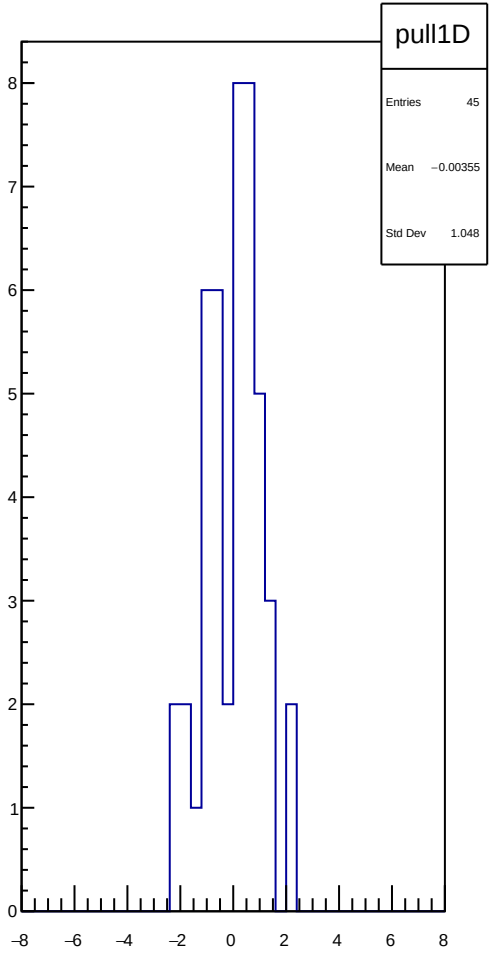

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.156e+04 / 44
p0 61.31 ± 0.0657
85
80
75
70
65
60
55
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

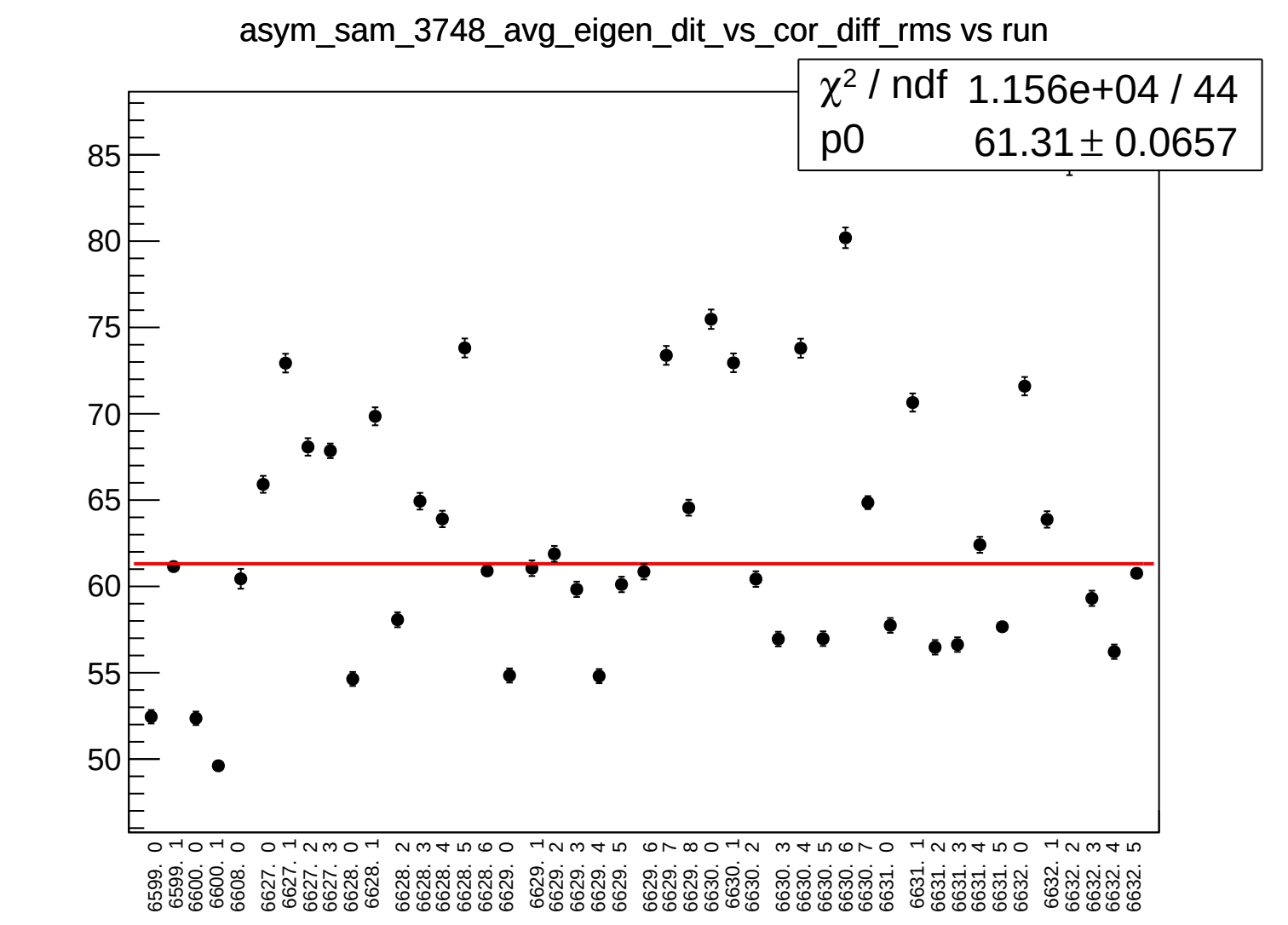

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 57.84 / 44
p0 −1.948e−06 ± 3.988e−06
0.1
0.05
0
−0.05
−0.1
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −29.85
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.02736
Std Dev 1.133
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

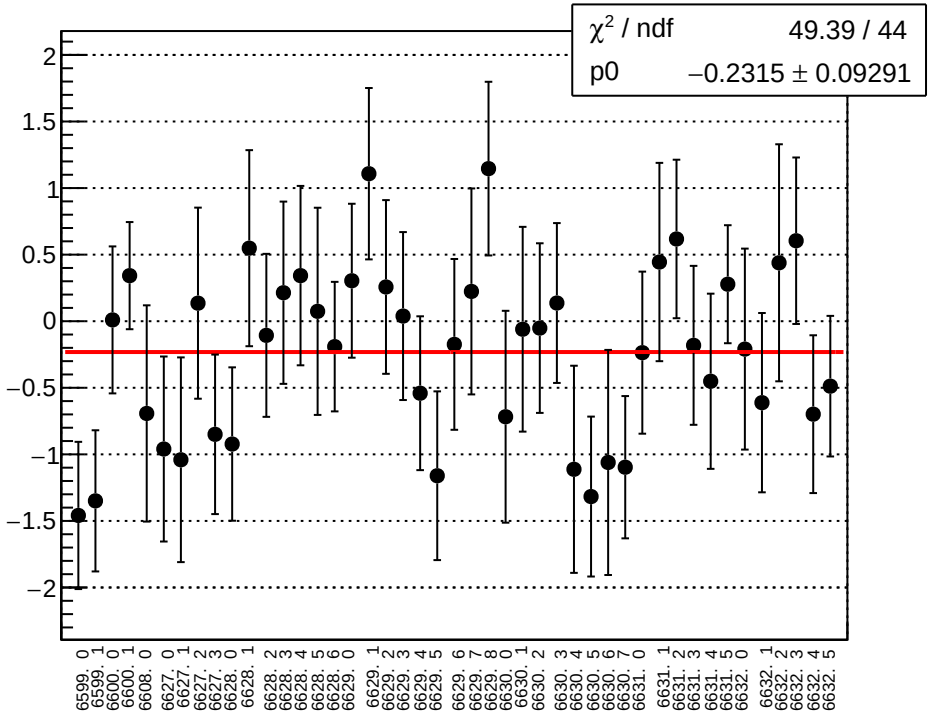

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4031 / 44
p0 0.002643 ± 2.82e–06
0.0032
0.003
0.0028
0.0026
0.0024
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

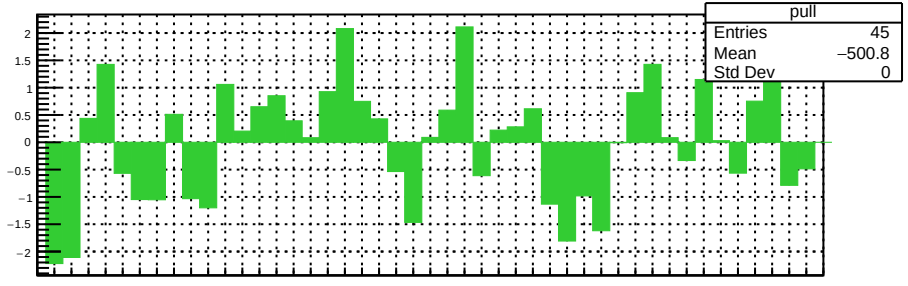

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 49.39 / 44
p0 −0.2315 ± 0.09291
pull
Entries 45
Mean −500.8
Std Dev 0

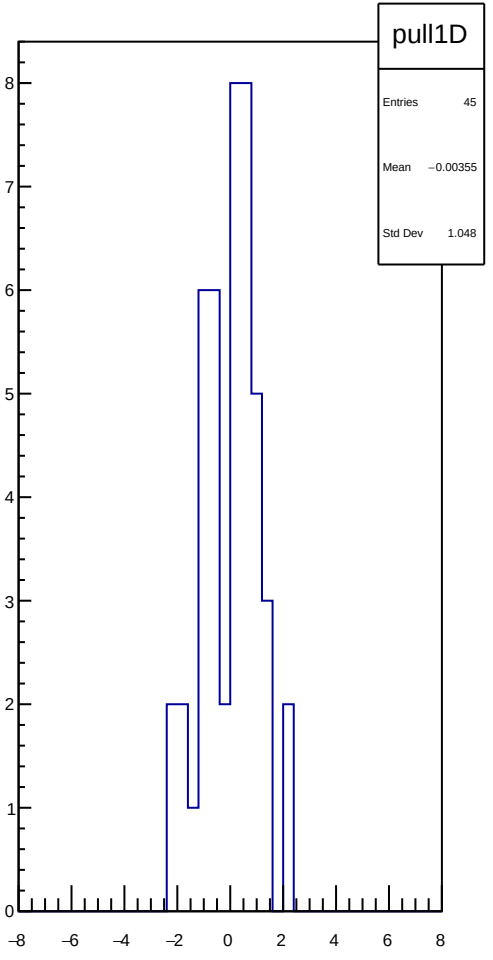

pull1D
Entries 45
Mean −0.00355
Std Dev 1.048

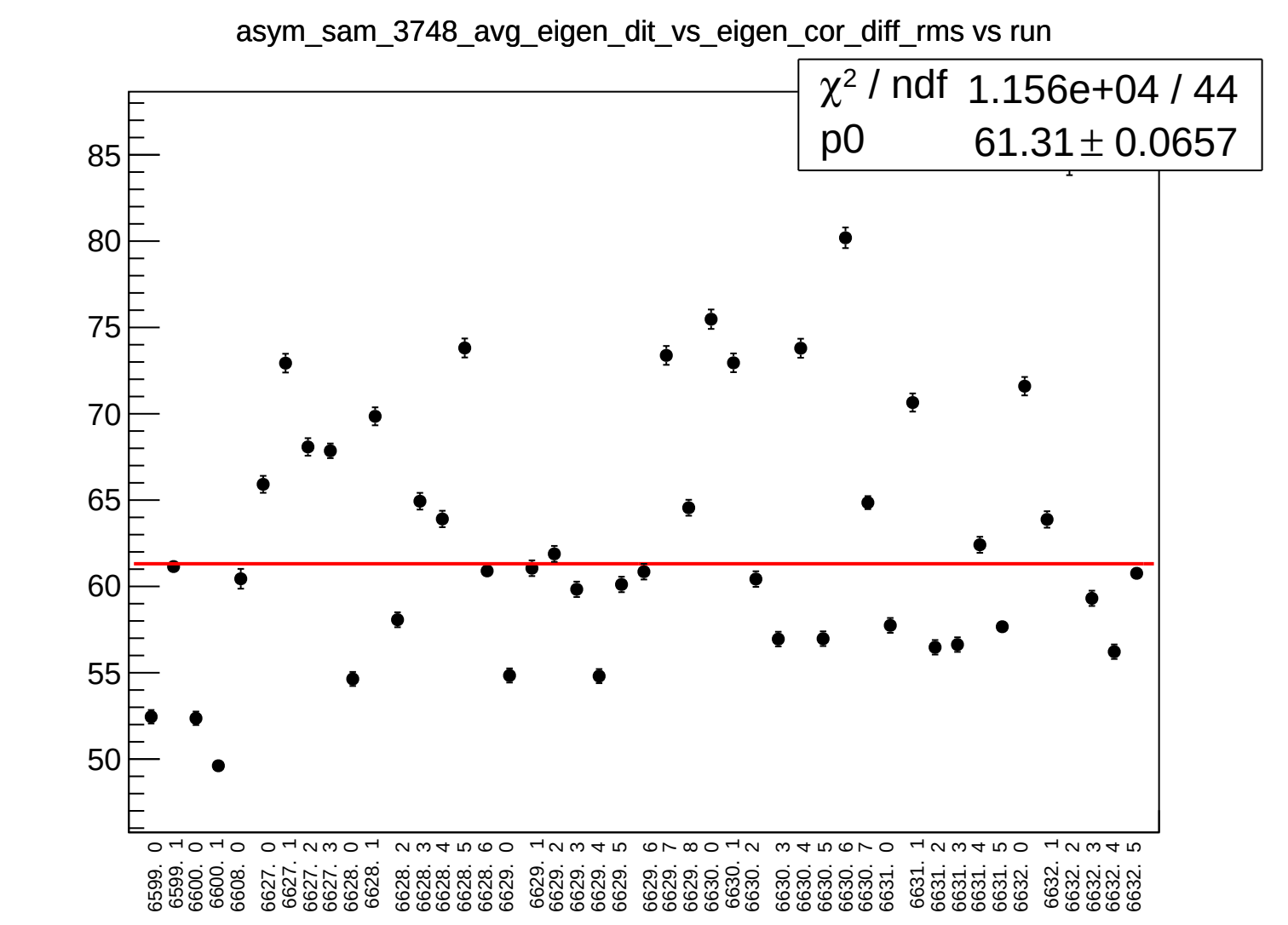

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.156e+04 / 44
p0 61.31 ± 0.0657
85
80
75
70
65
60
55
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

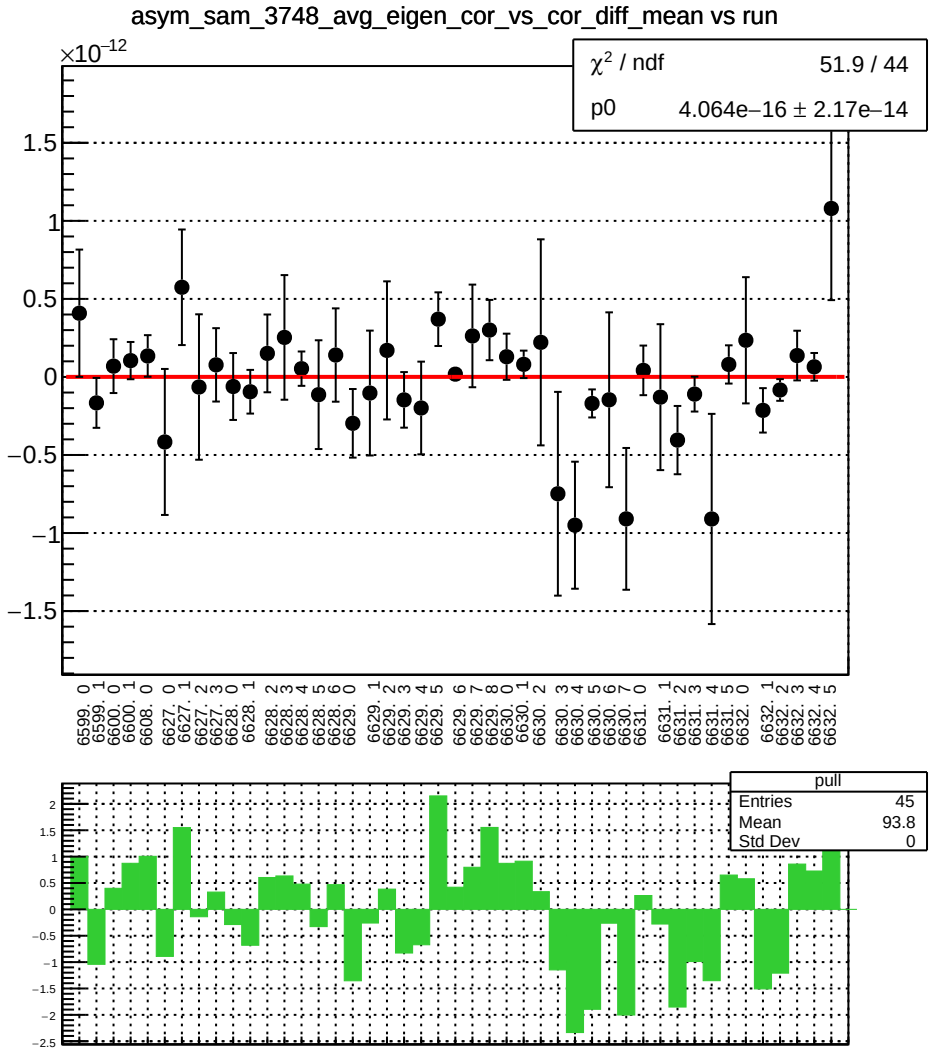
asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run

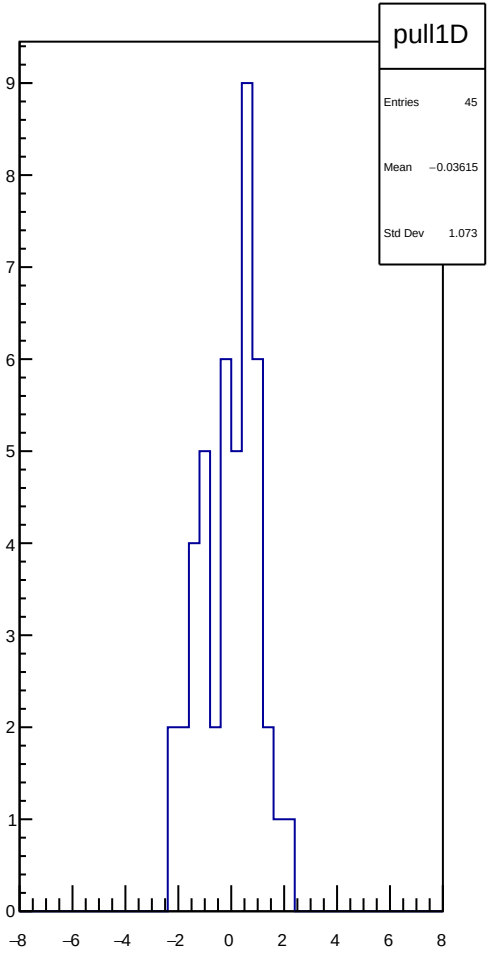


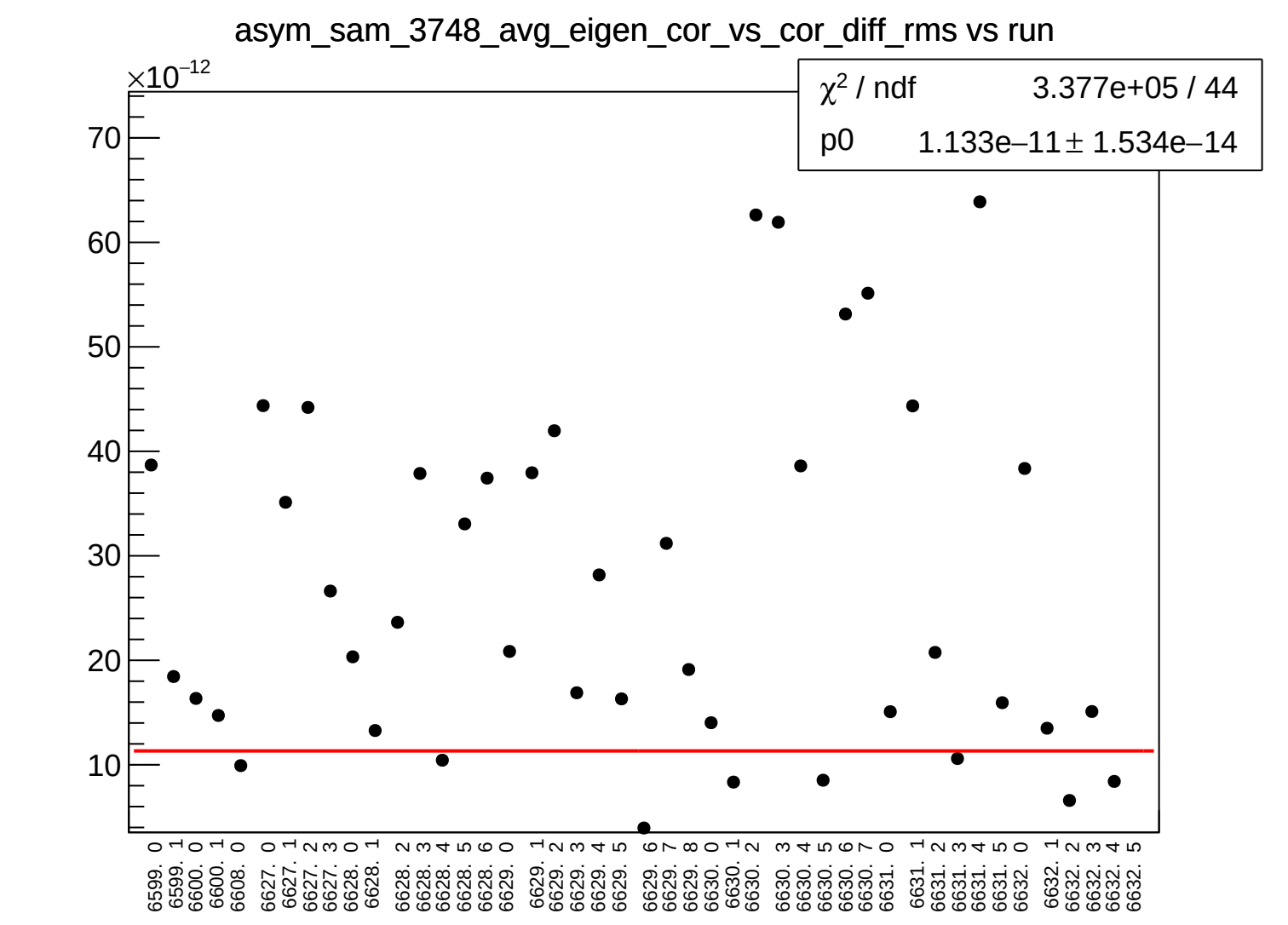




asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.156e+04 / 44
p0 61.31 ± 0.0657
85
80
75
70
65
60
55
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 51.9 / 44
p0 4.064e−16 ± 2.17e−14
1.5
1
0.5
0
−0.5
−1
−1.5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 93.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean −0.03615
Std Dev 1.073
9
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
×10⁻¹²
χ² / ndf 3.377e+05 / 44
p0 1.133e−11 ± 1.534e−14
70
60
50
40
30
20
10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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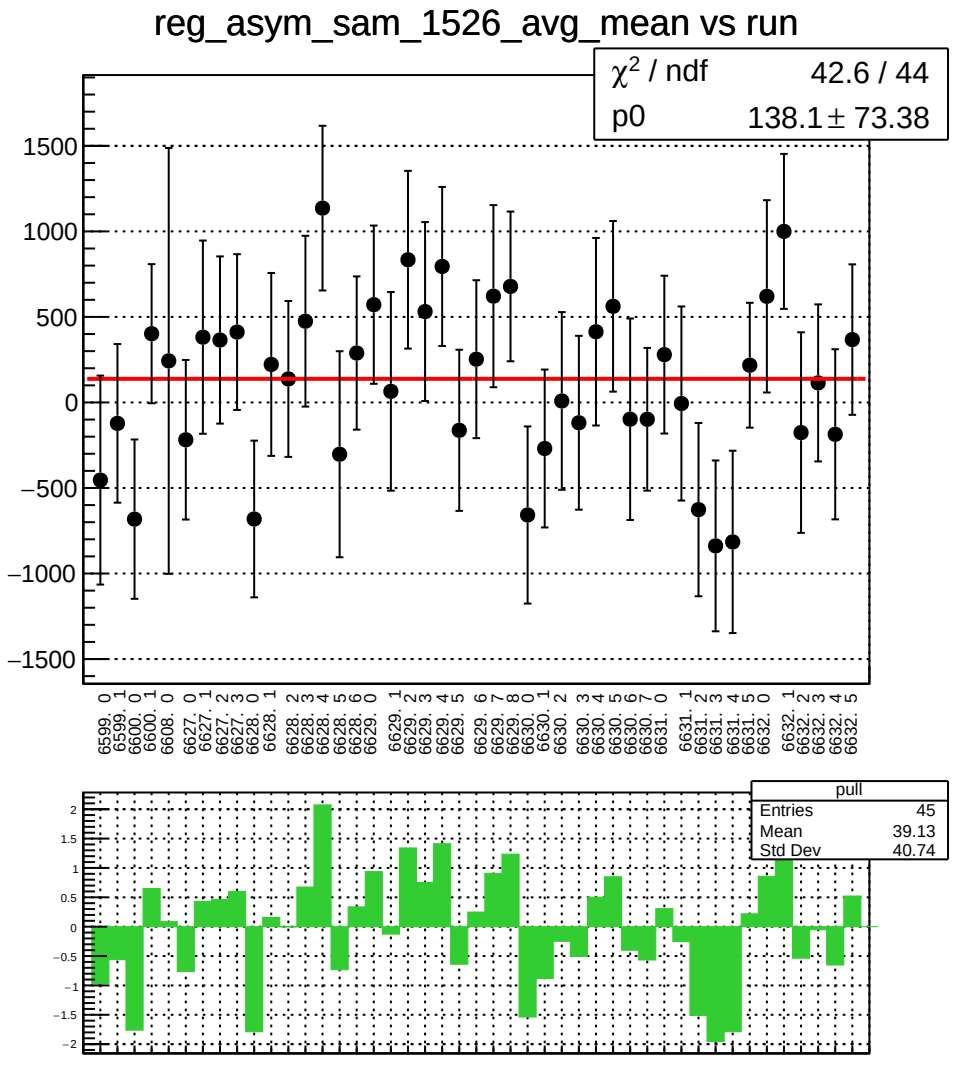
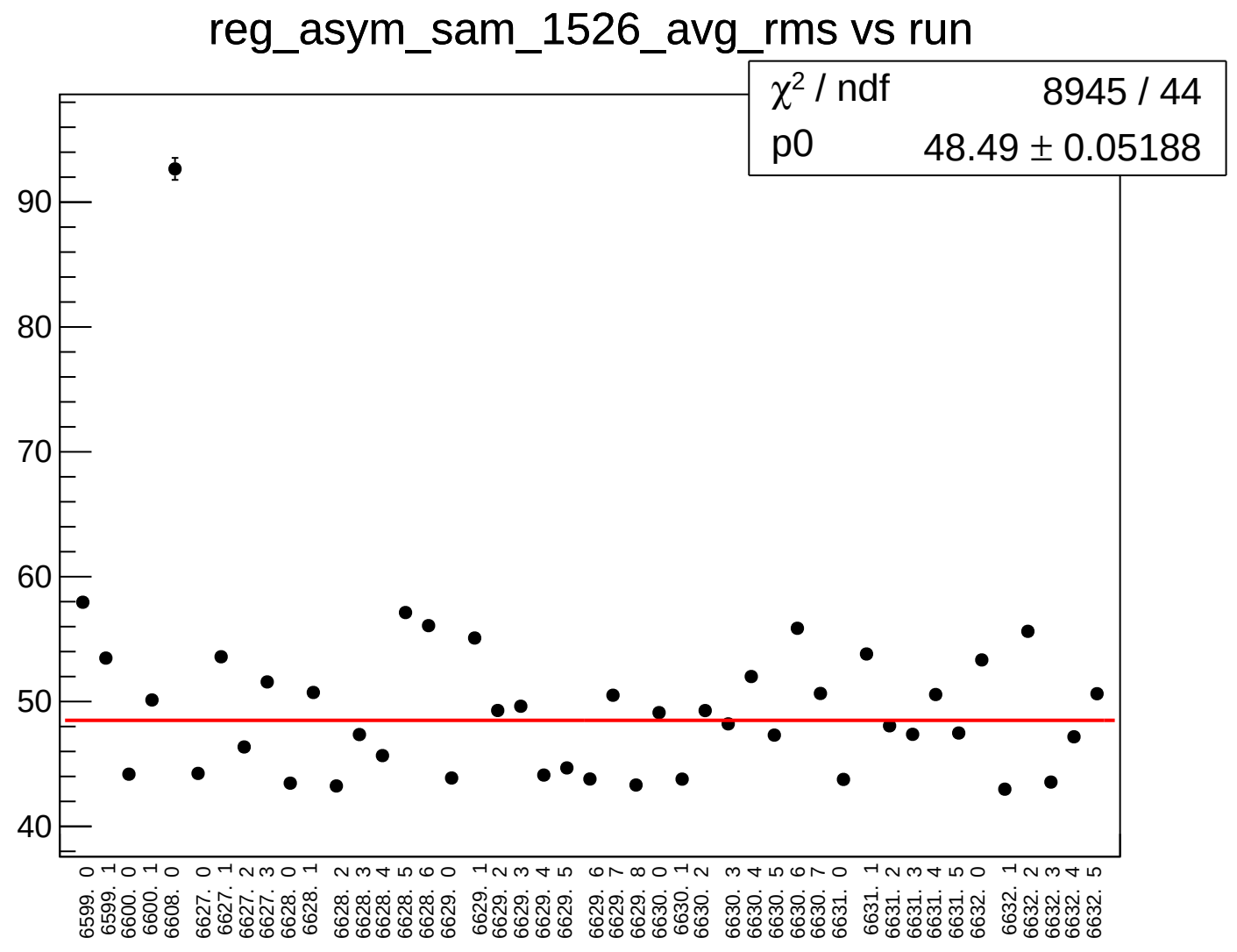
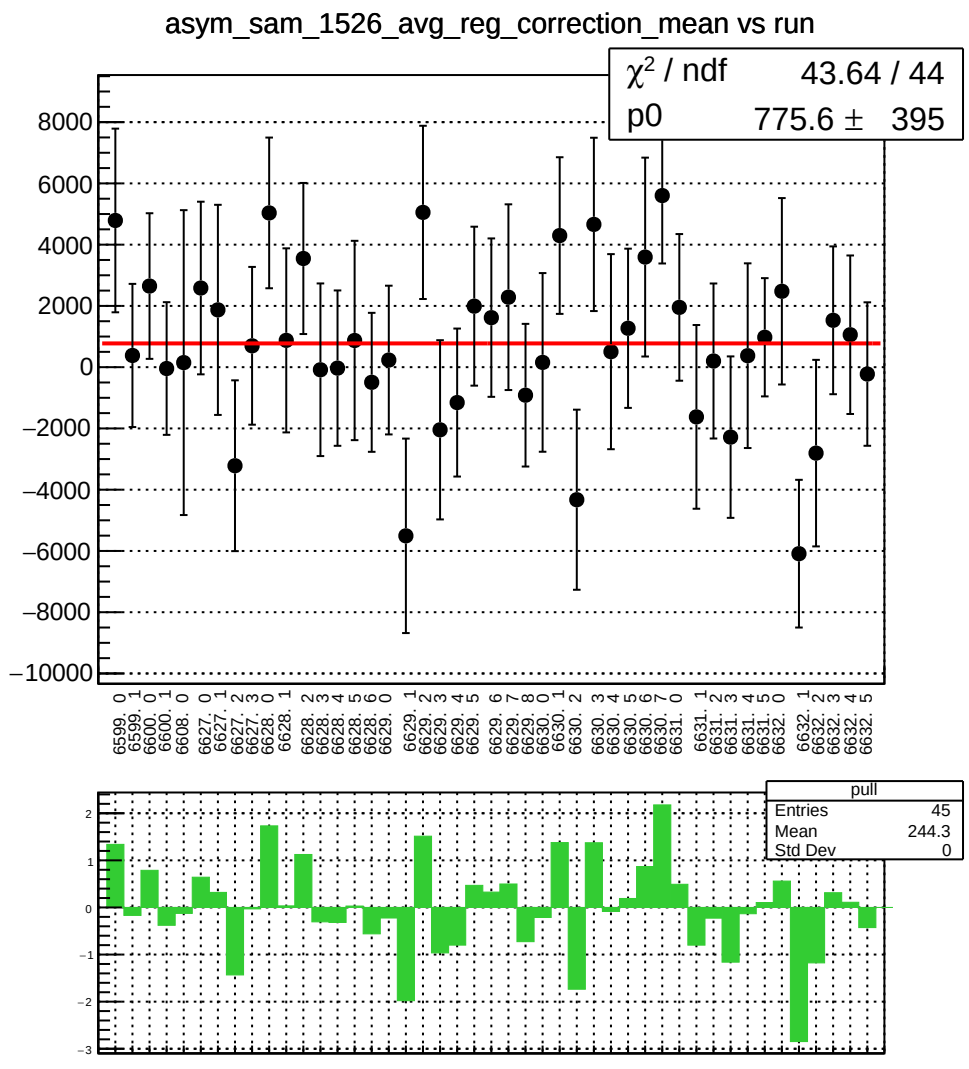
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


reg_asym_sam_1526_avg_mean vs run
χ² / ndf 42.6 / 44
p0 138.1 ± 73.38
1500
1000
500
0
−500
−1000
−1500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 39.13
Std Dev 40.74
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01704
Std Dev 0.9728
9
8
7
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 8945 / 44
p0 48.49 ± 0.05188
90
80
70
60
50
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 43.64 / 44
p0 775.6 ± 395
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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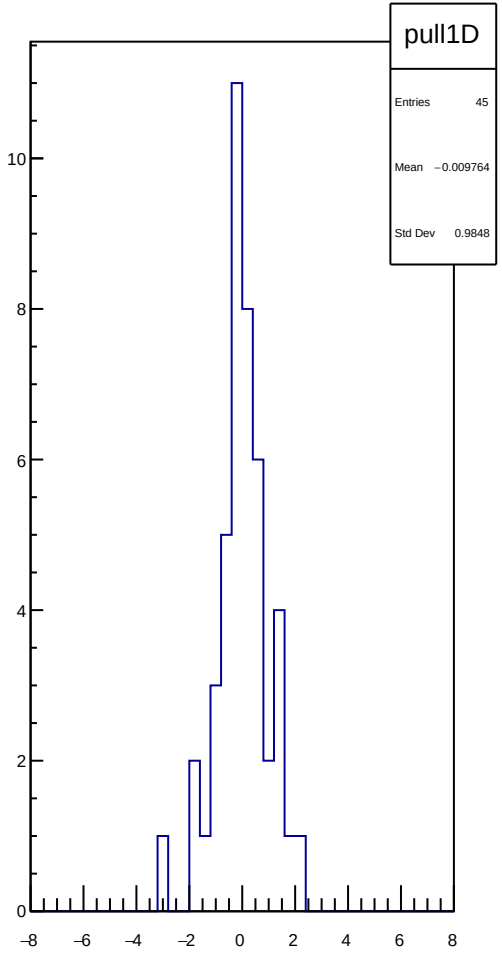
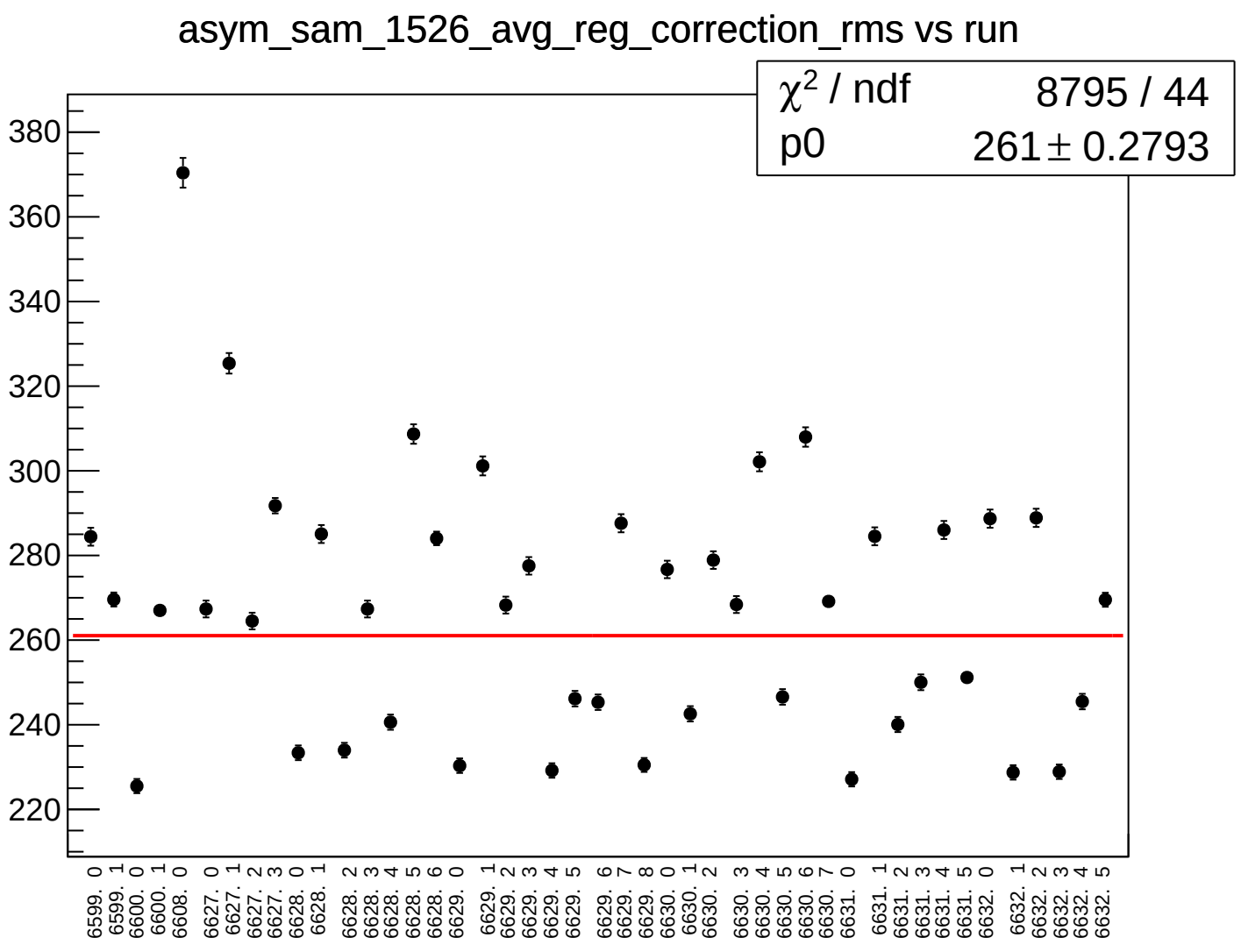
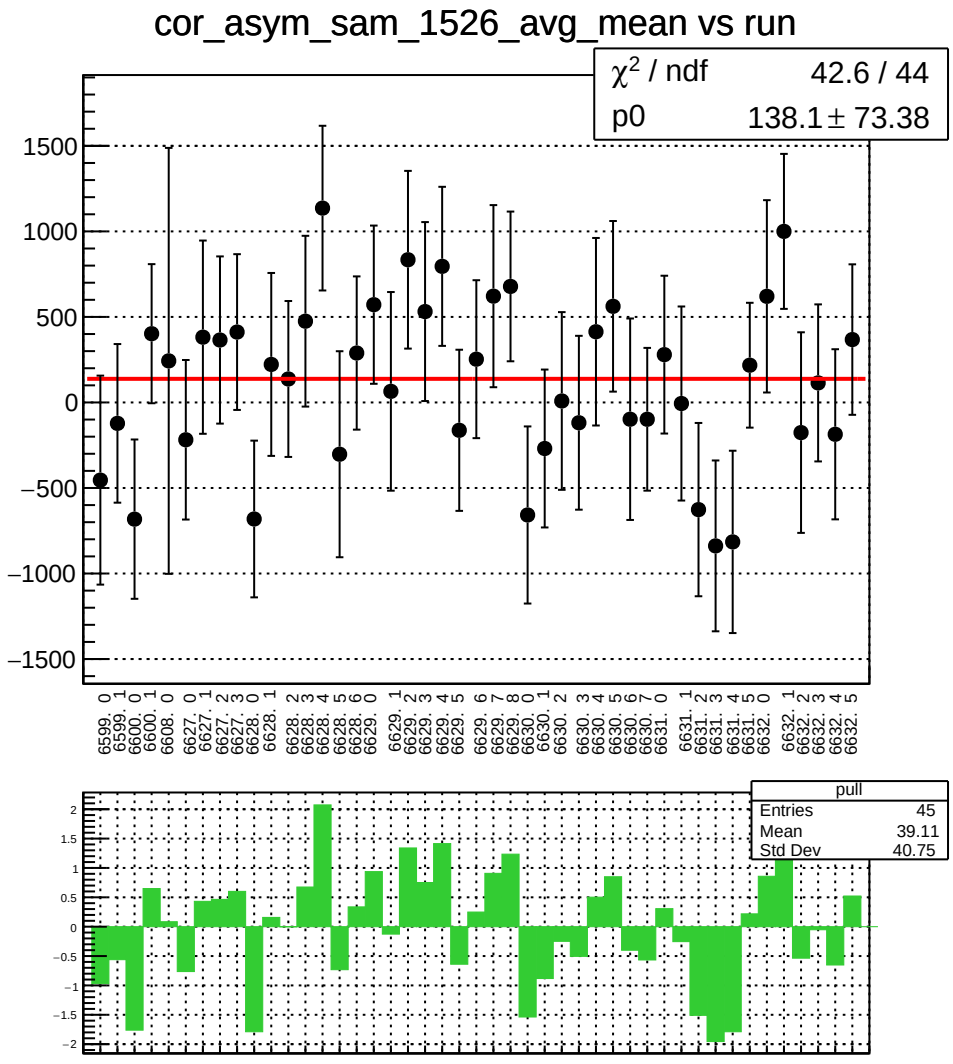
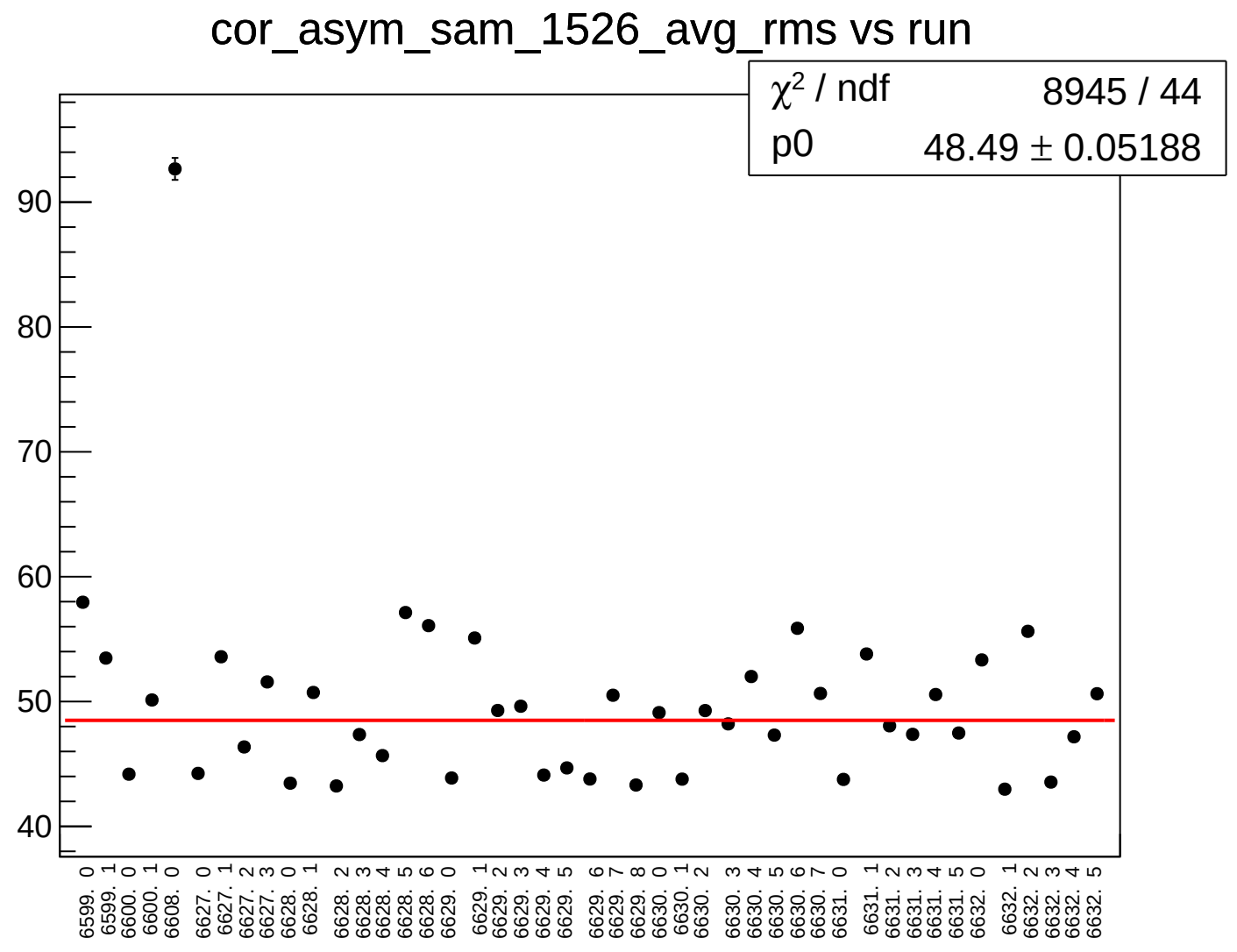
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 244.3
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.009764
Std Dev 0.9848
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 8795 / 44
p0 261 ± 0.2793
380
360
340
320
300
280
260
240
220
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_sam_1526_avg_mean vs run
χ² / ndf 42.6 / 44
p0 138.1 ± 73.38
1500
1000
500
0
−500
−1000
−1500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 39.11
Std Dev 40.75
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01704
Std Dev 0.9728
9
8
7
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 8945 / 44
p0 48.49 ± 0.05188
90
80
70
60
50
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6632. 0
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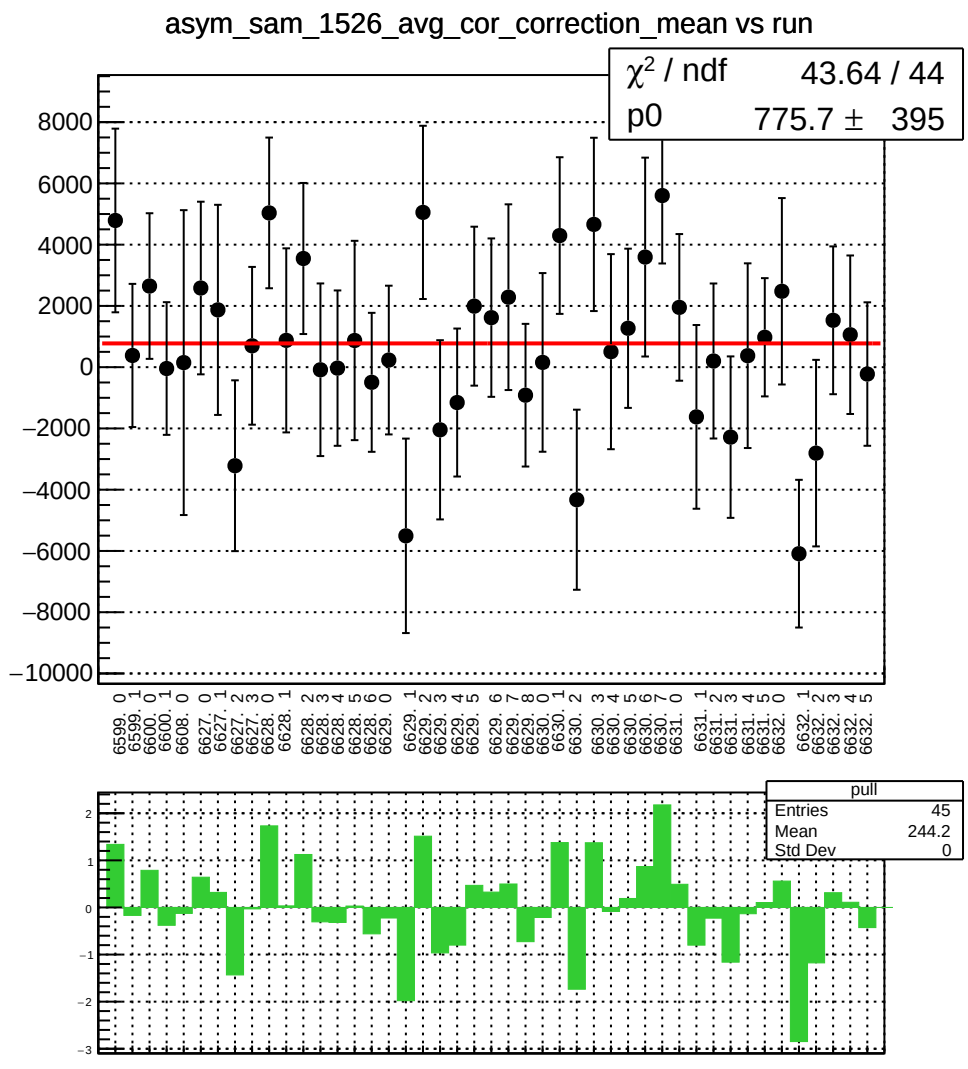
6632. 5


asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 43.64 / 44
p0 775.7 ± 395
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
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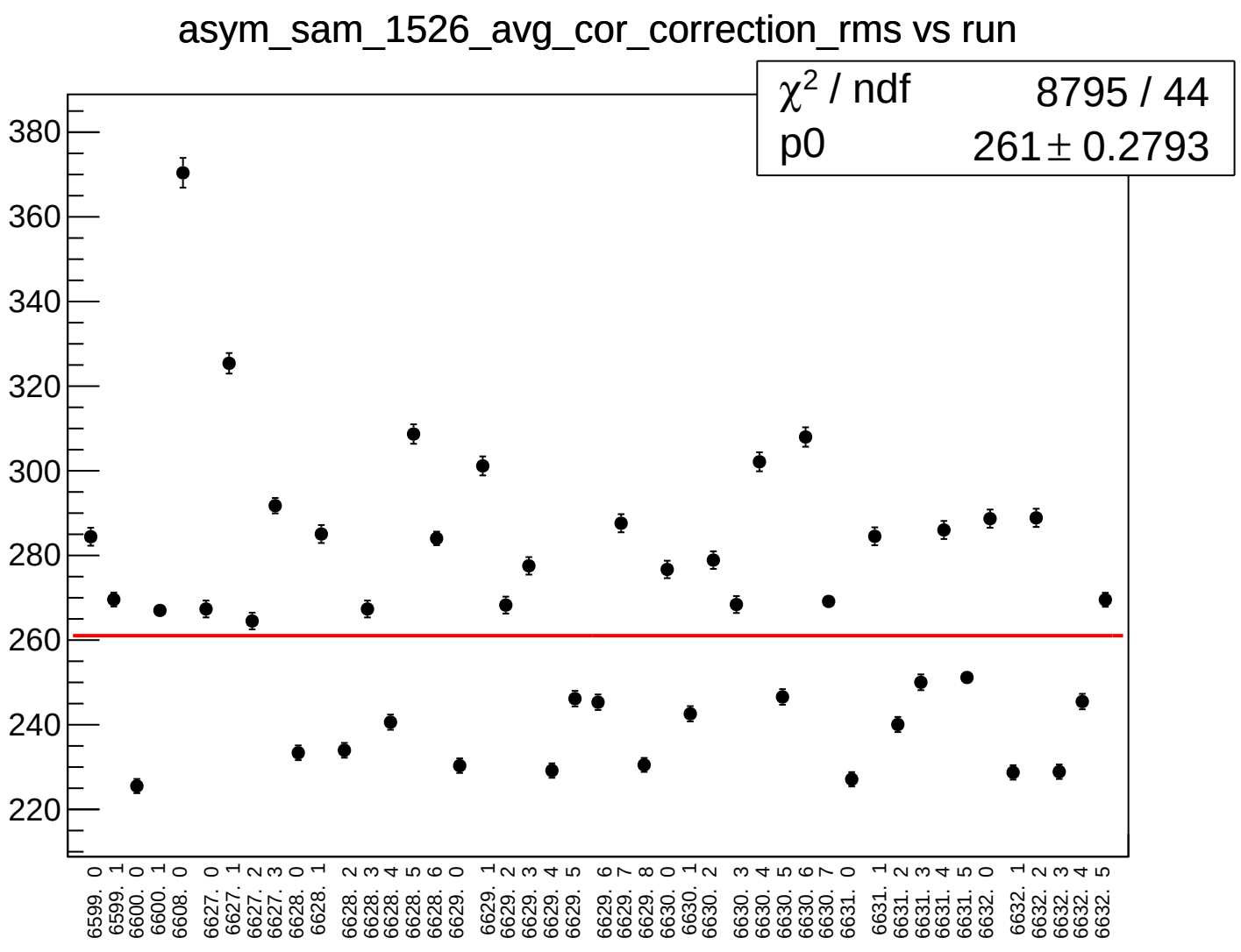
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 244.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.009768
Std Dev 0.9847
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 8795 / 44
p0 261 ± 0.2793
380
360
340
320
300
280
260
240
220
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
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6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6632. 2
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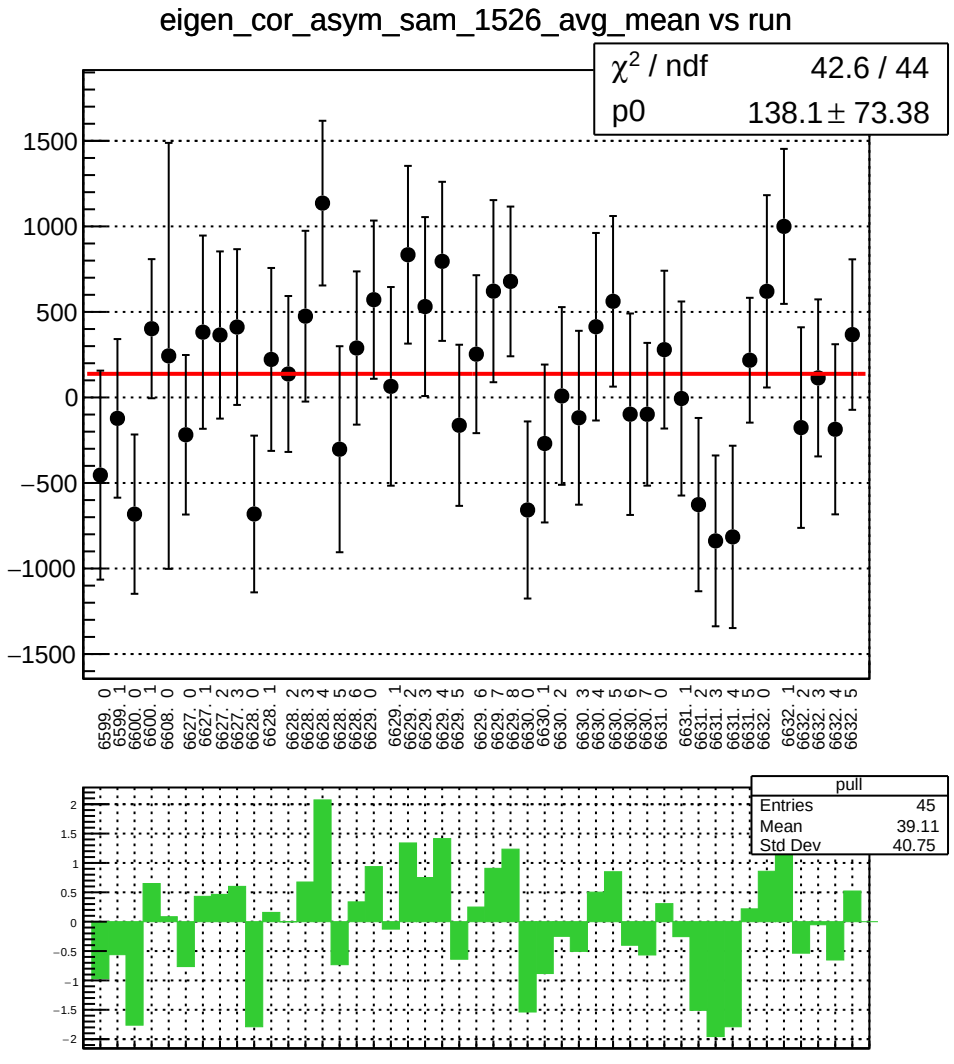
6632. 4
6632. 5


eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 42.6 / 44
p0 138.1 ± 73.38
1500
1000
500
0
−500
−1000
−1500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
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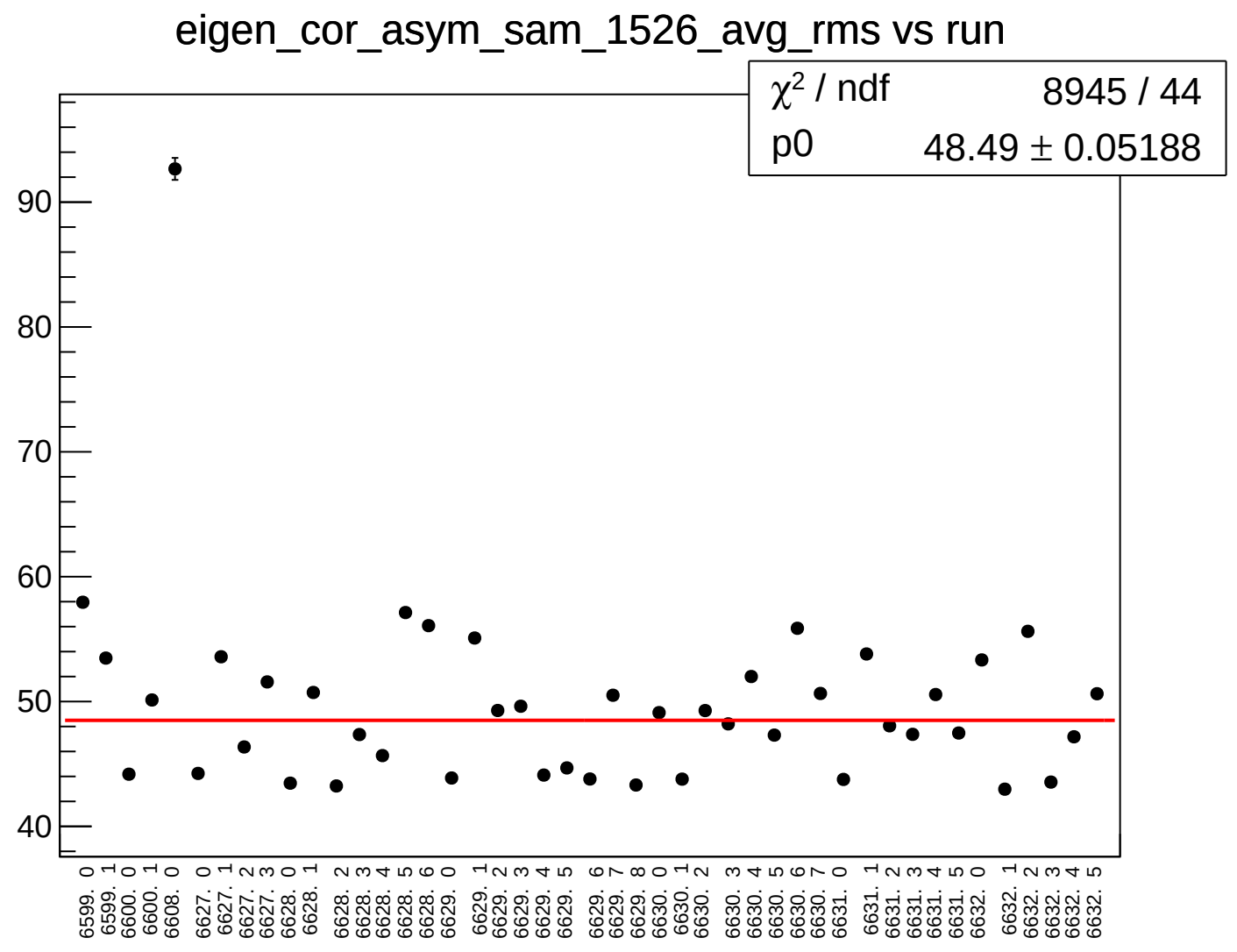
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 39.11
Std Dev 40.75
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01704
Std Dev 0.9728
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 8945 / 44
p0 48.49 ± 0.05188
90
80
70
60
50
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6632. 2
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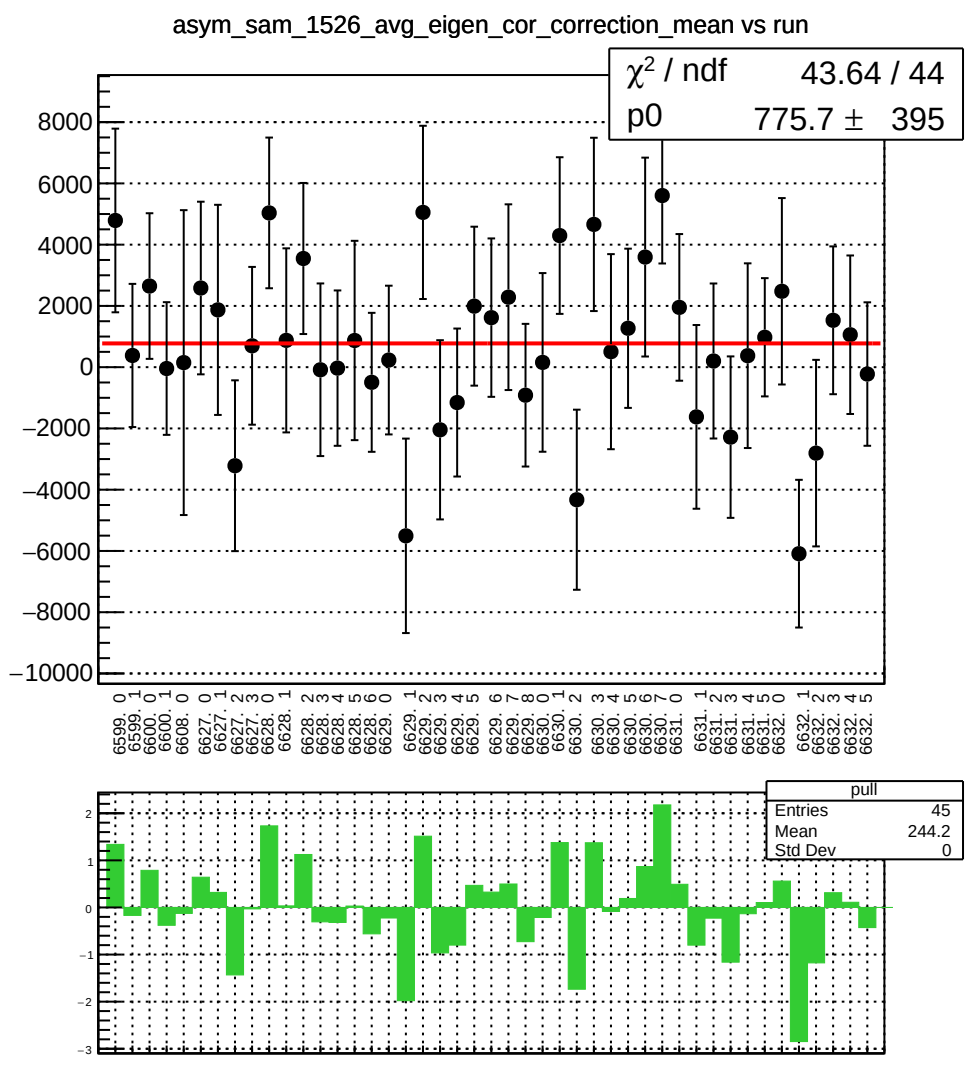
6632. 4
6632. 5


asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 43.64 / 44
p0 775.7 ± 395
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 4
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6630. 5
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6630. 7
6631. 0
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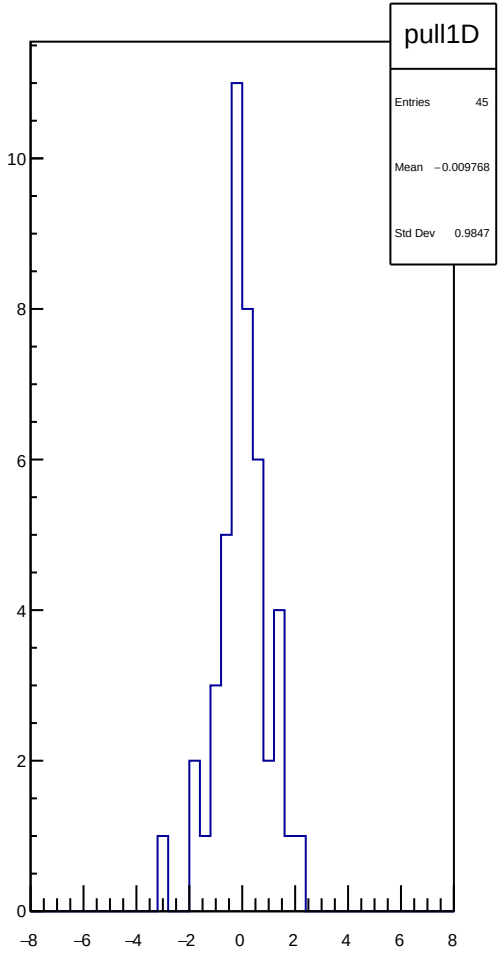
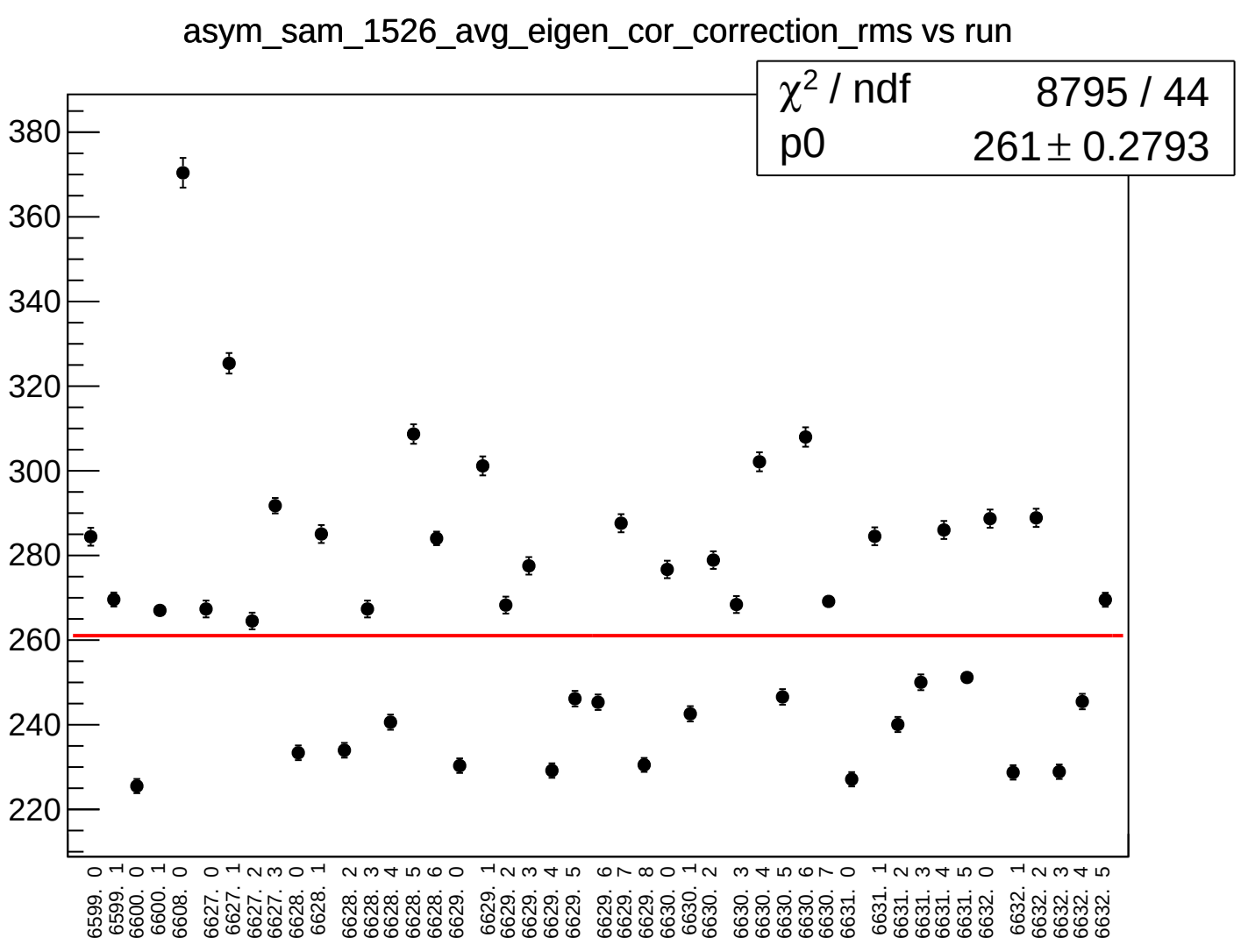
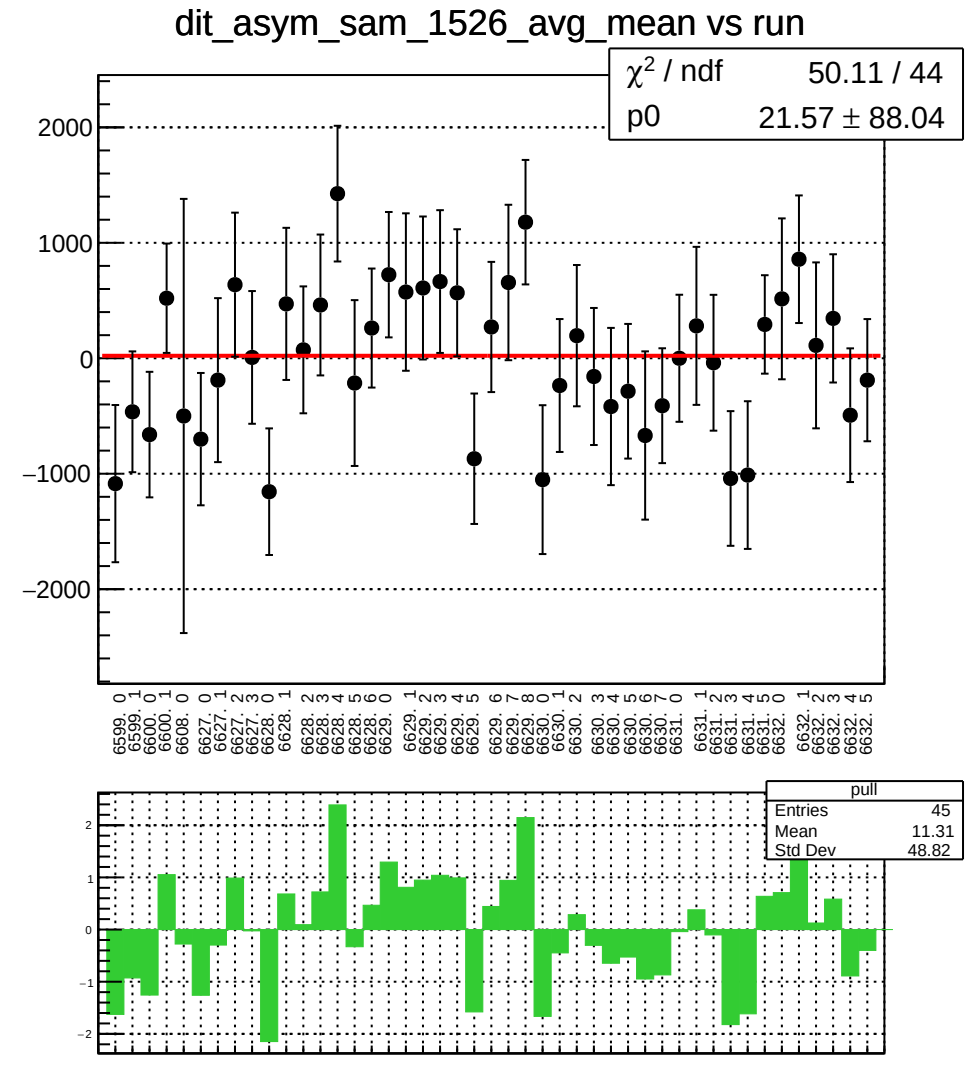
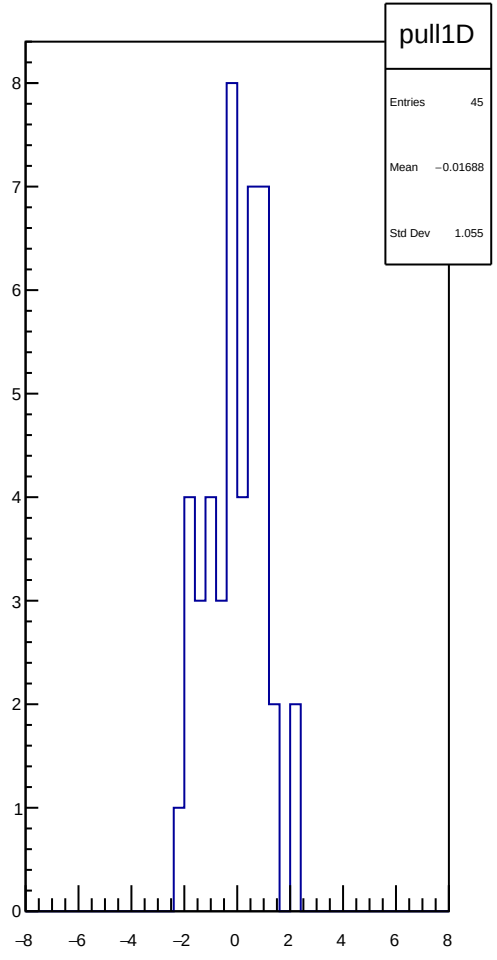
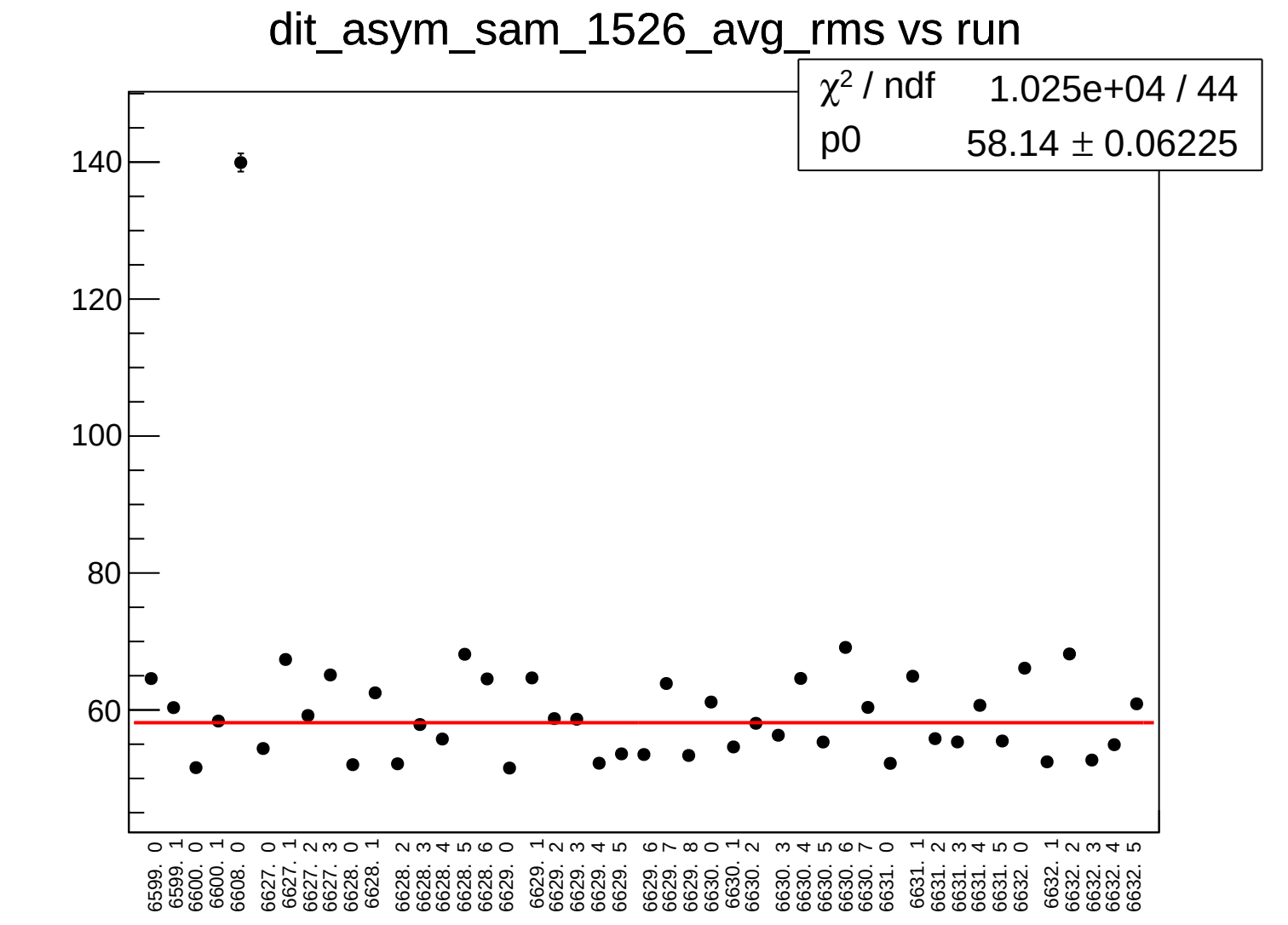
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 244.2
Std Dev 0
2
1
0
−1
−2
−3

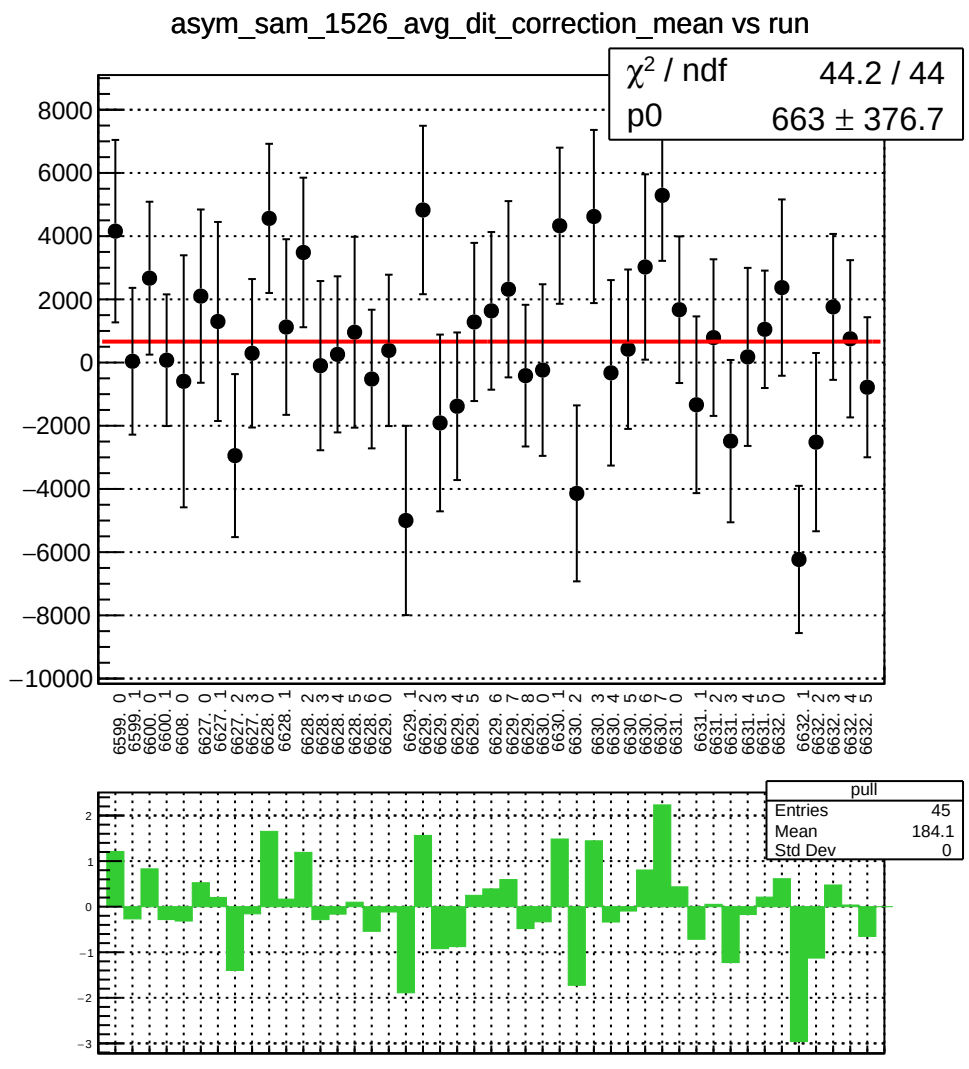

pull1D
Entries 45
Mean −0.009768
Std Dev 0.9847
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 8795 / 44
p0 261 ± 0.2793
380
360
340
320
300
280
260
240
220
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


dit_asym_sam_1526_avg_mean vs run
χ² / ndf 50.11 / 44
p0 21.57 ± 88.04
2000
1000
0
−1000
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 11.31
Std Dev 48.82
2
1
0
−1
−2


pull1D
Entries 45
Mean −0.01688
Std Dev 1.055
8
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 1.025e+04 / 44
p0 58.14 ± 0.06225
140
120
100
80
60
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 44.2 / 44
p0 663 ± 376.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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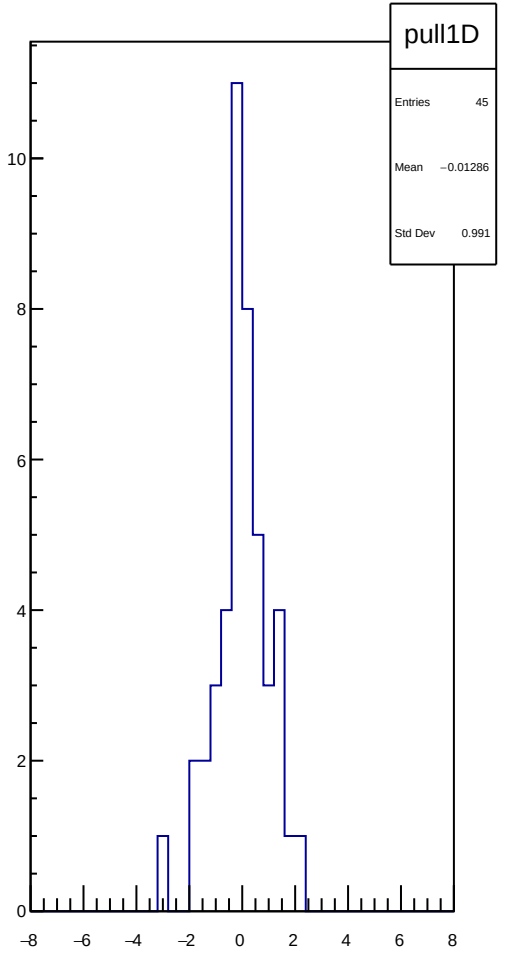
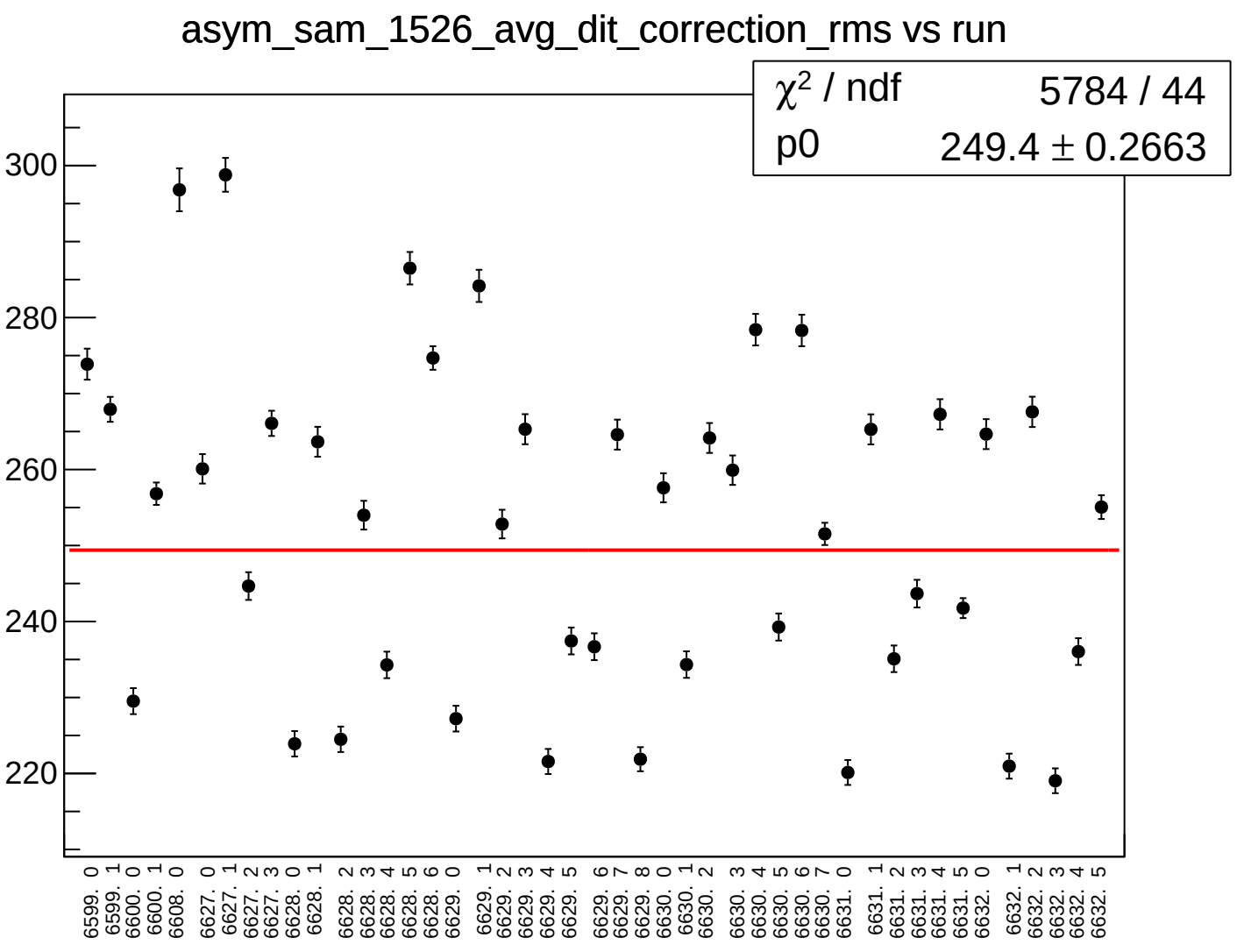
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 184.1
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.01286
Std Dev 0.991
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 5784 / 44
p0 249.4 ± 0.2663
300
280
260
240
220
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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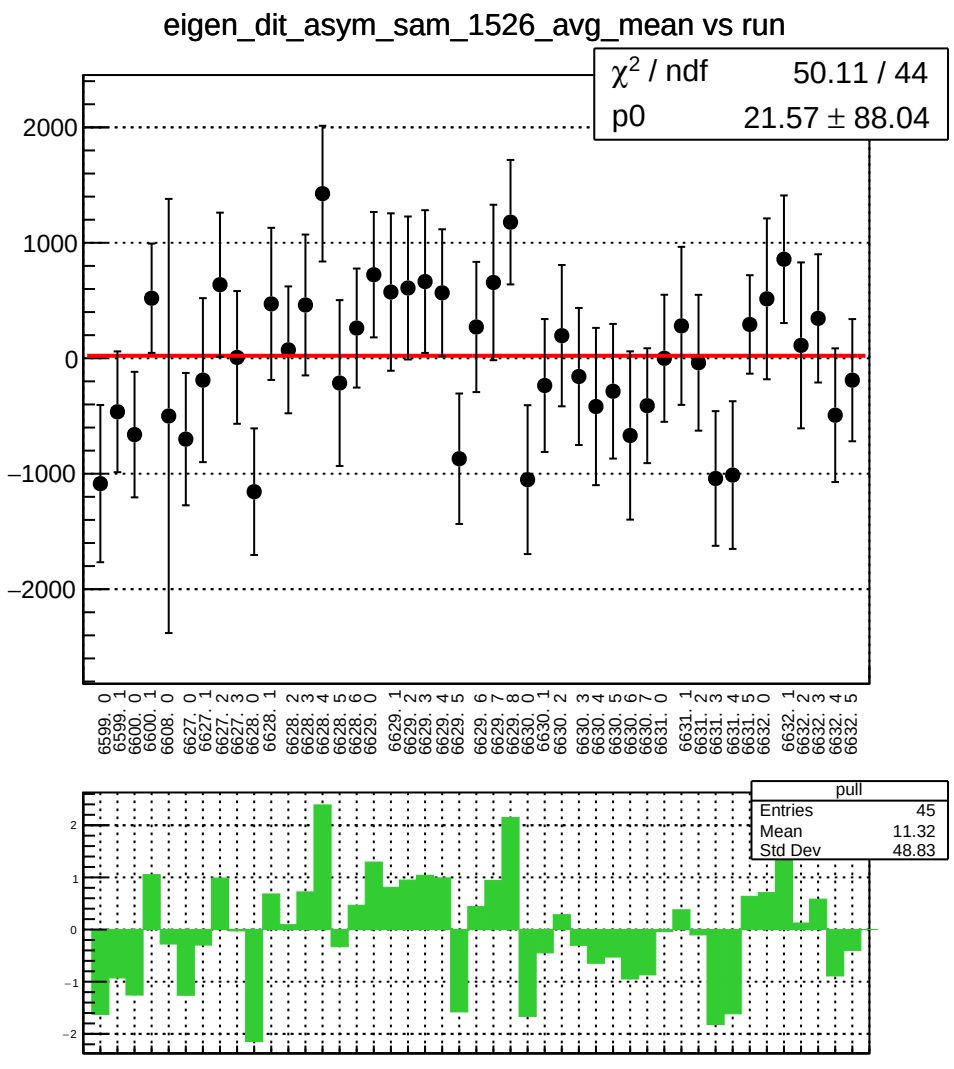
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 50.11 / 44
p0 21.57 ± 88.04
2000
1000
0
−1000
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
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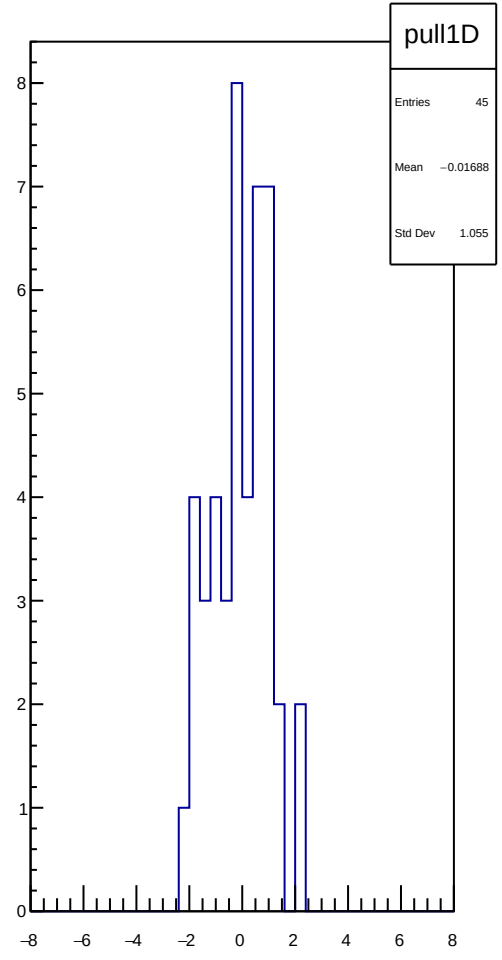
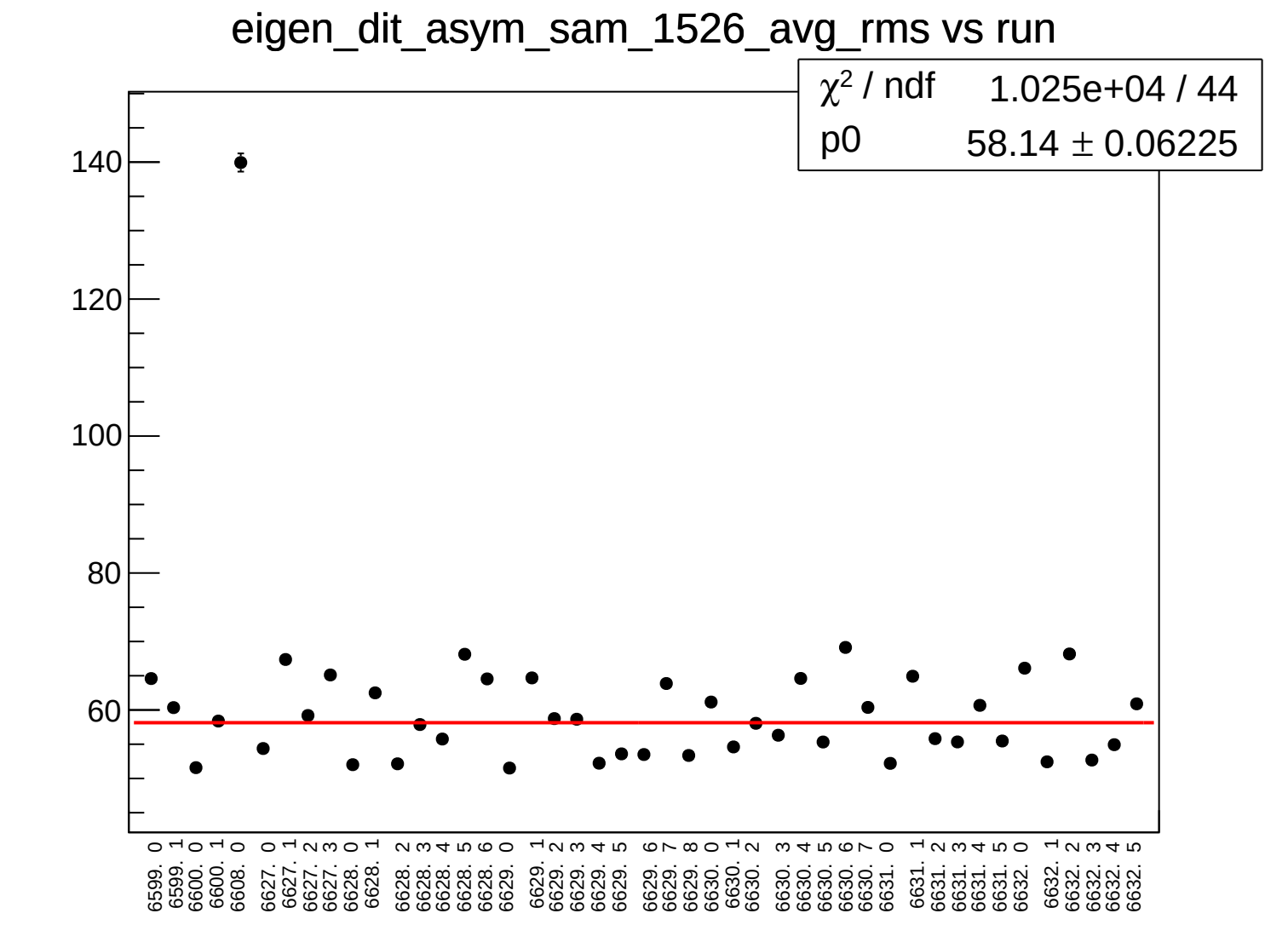
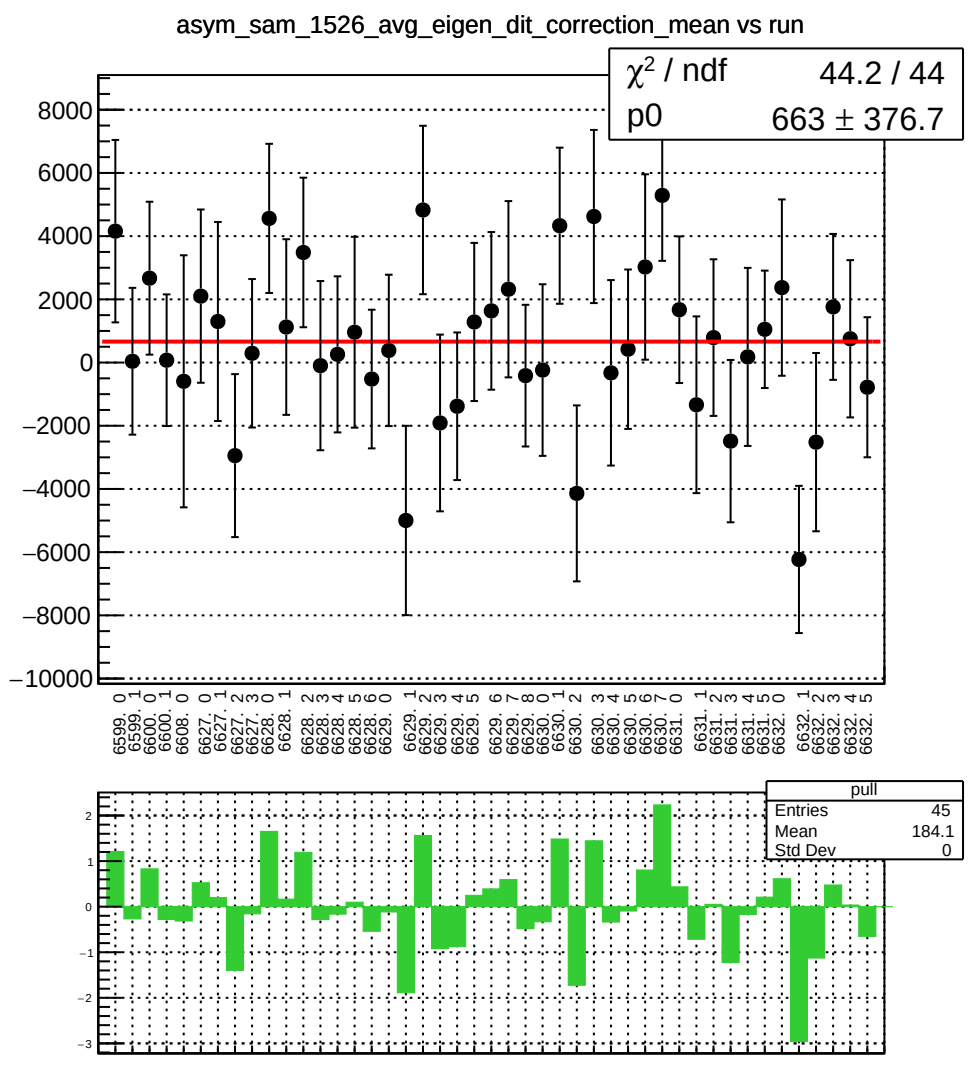
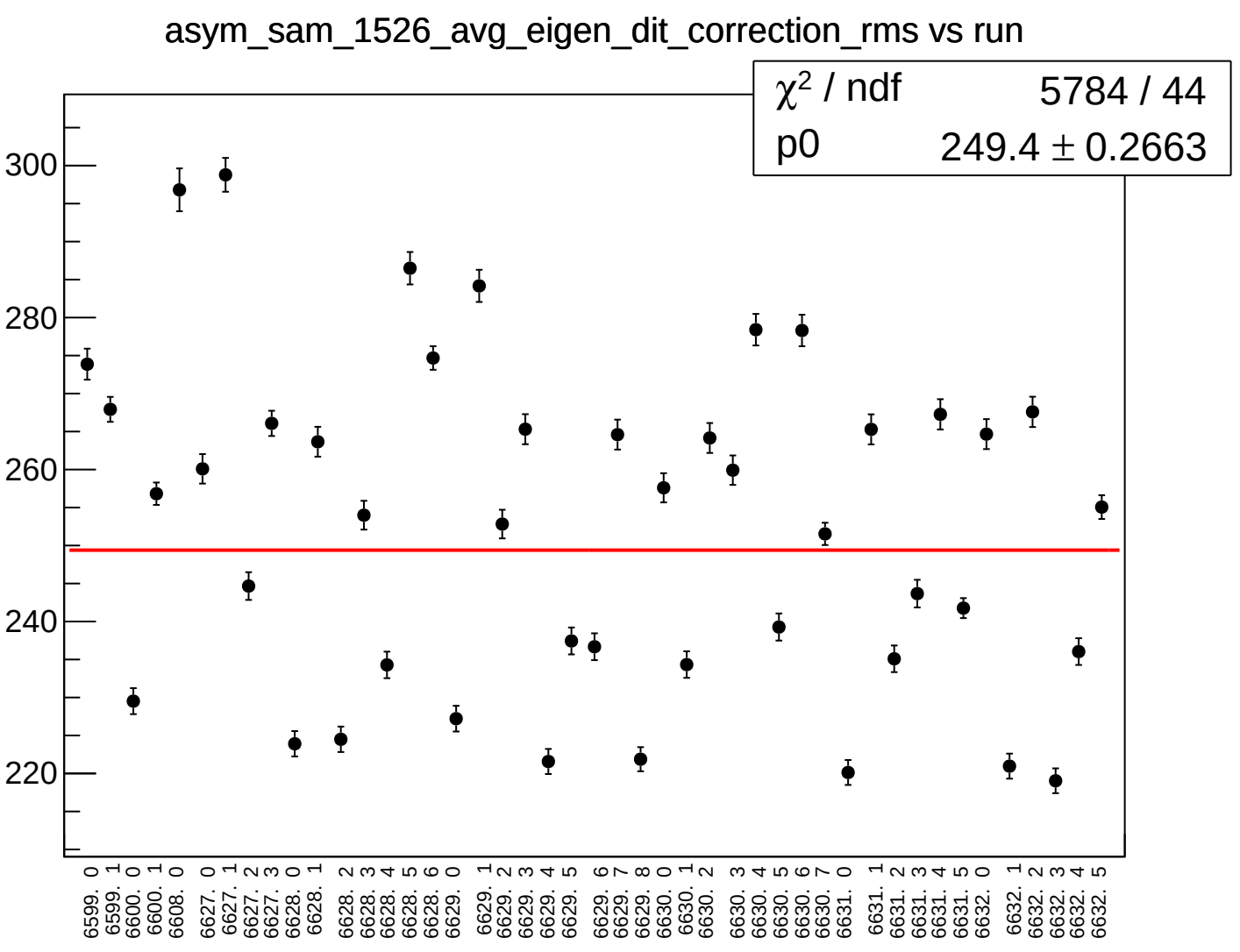
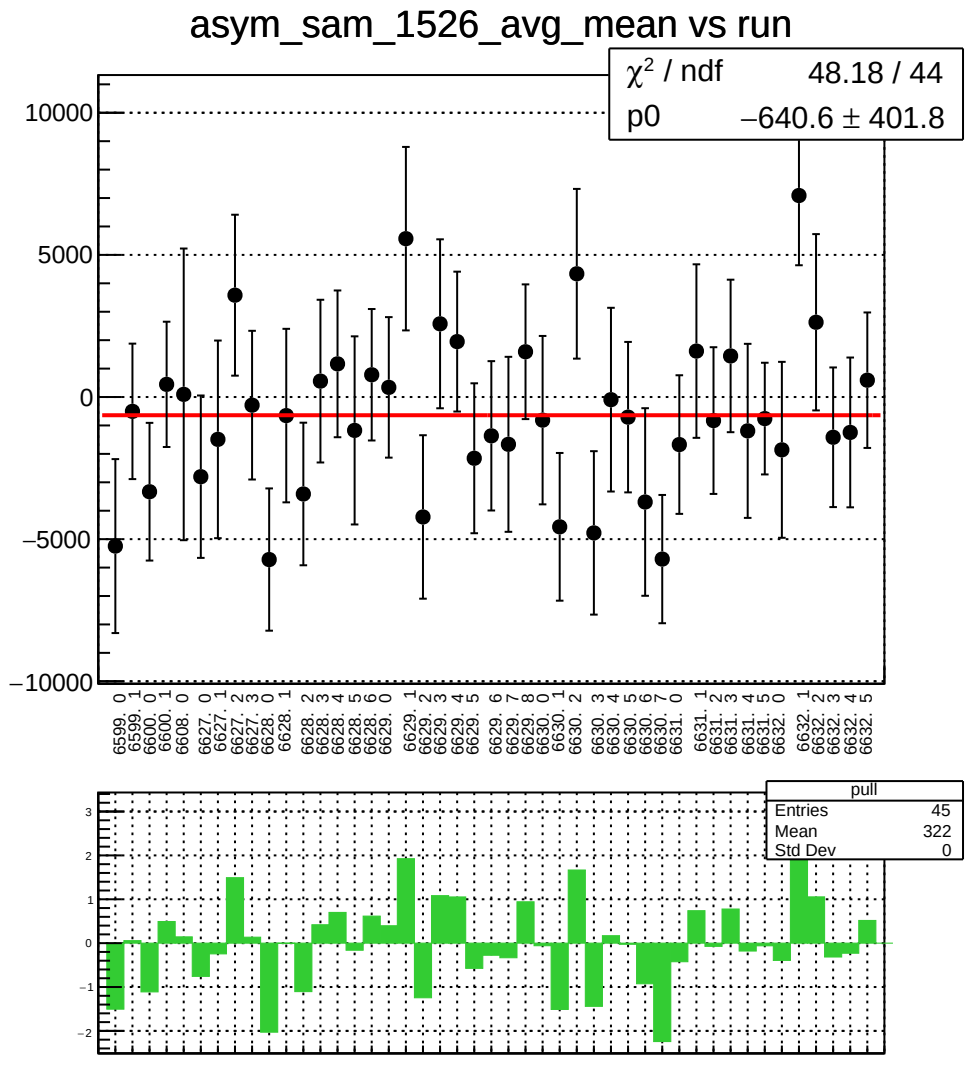
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 11.32
Std Dev 48.83
2
1
0
−1
−2

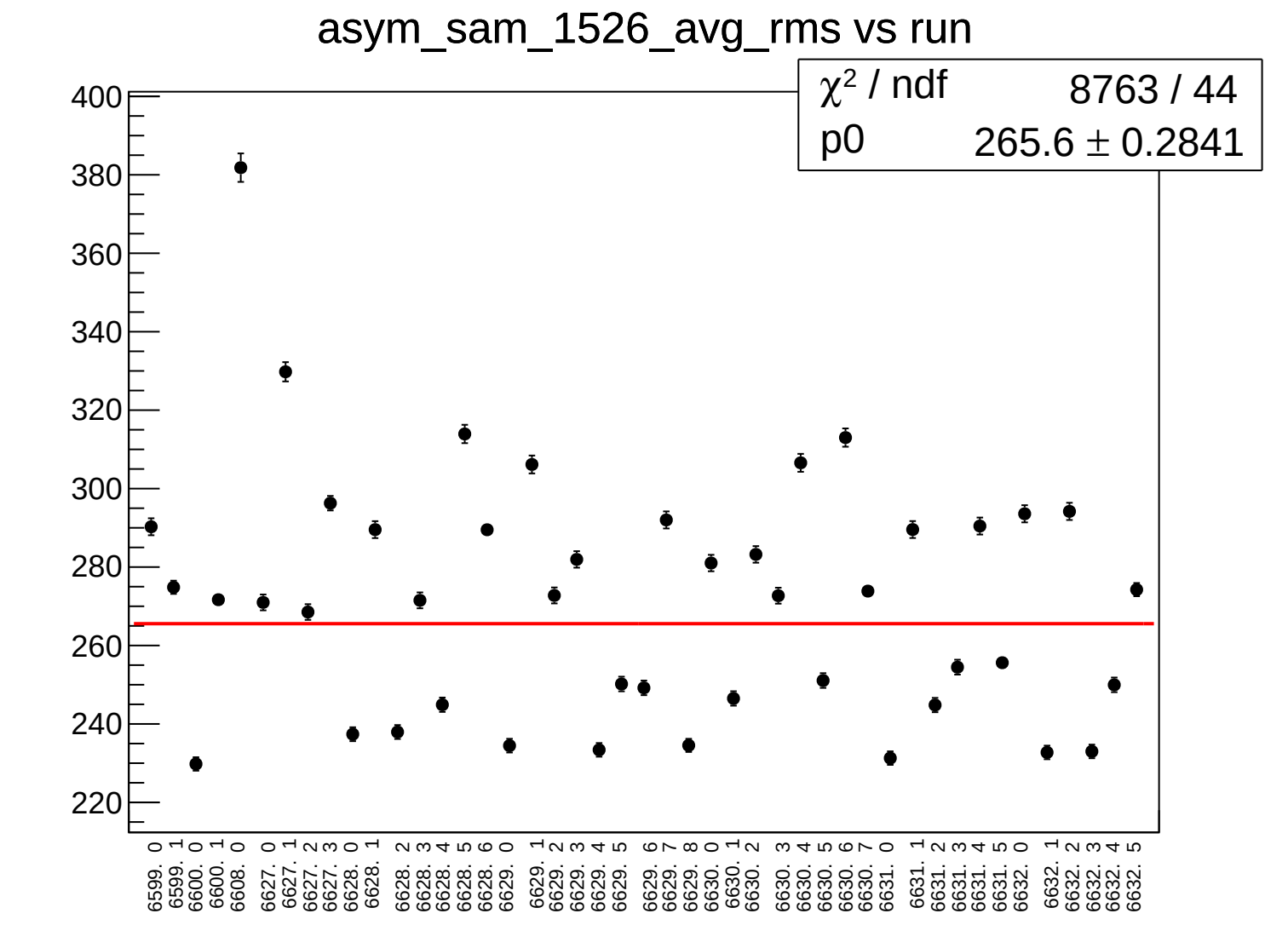

pull1D
Entries 45
Mean −0.01688
Std Dev 1.055
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

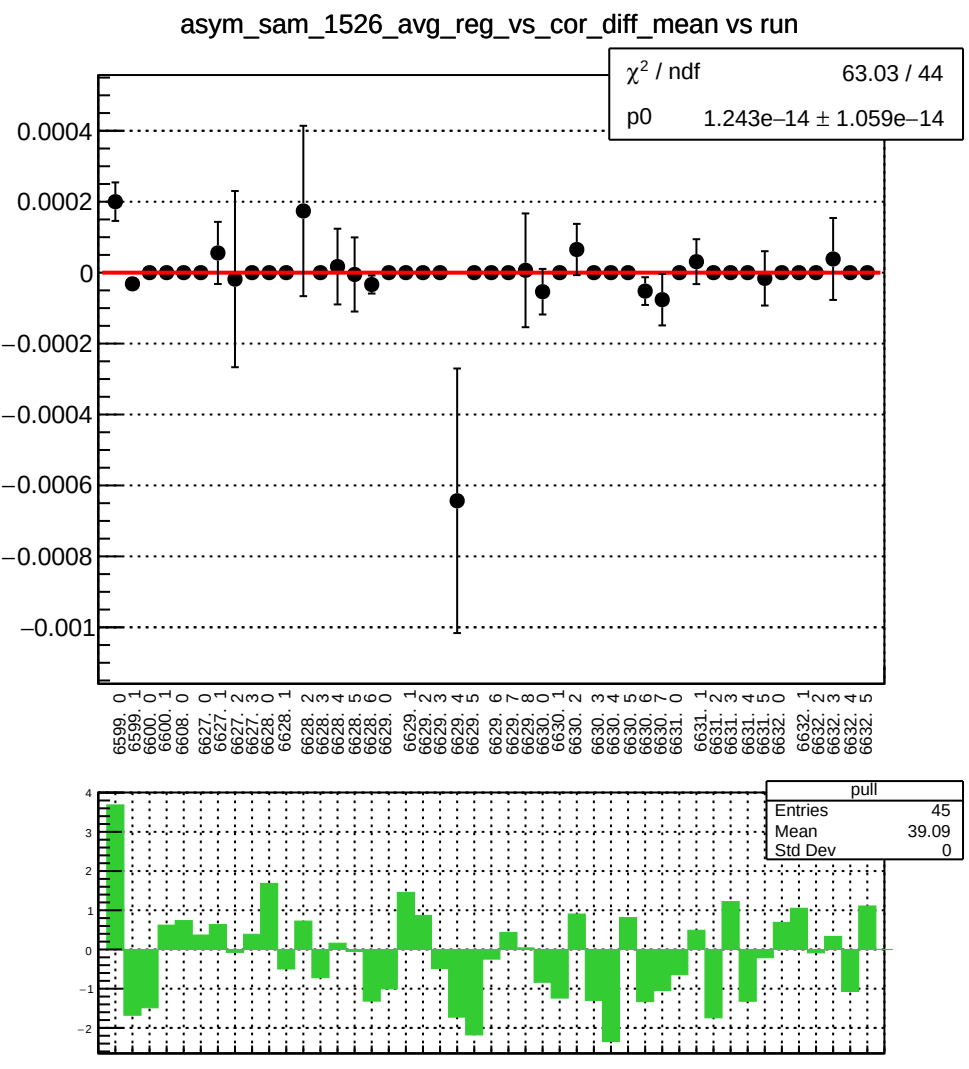

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 1.025e+04 / 44
p0 58.14 ± 0.06225
140
120
100
80
60
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

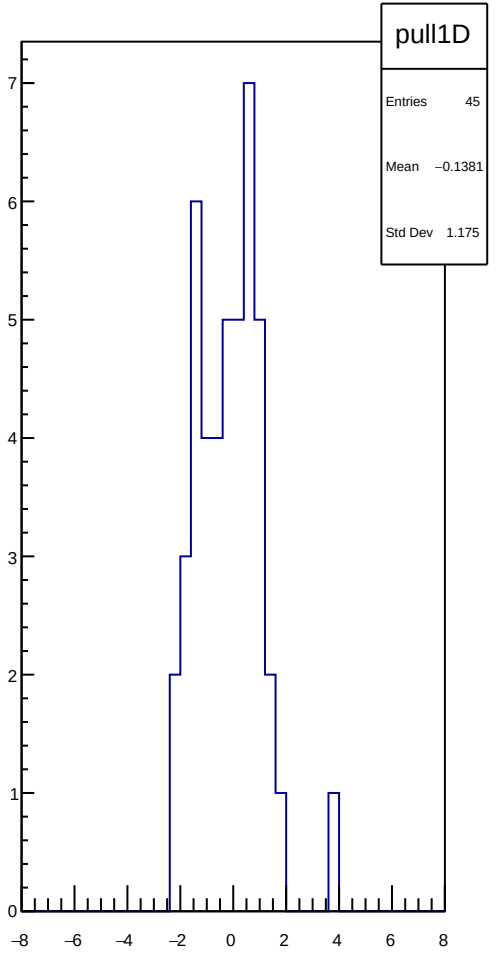

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 44.2 / 44
p0 663 ± 376.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 184.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.01286
Std Dev 0.991
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

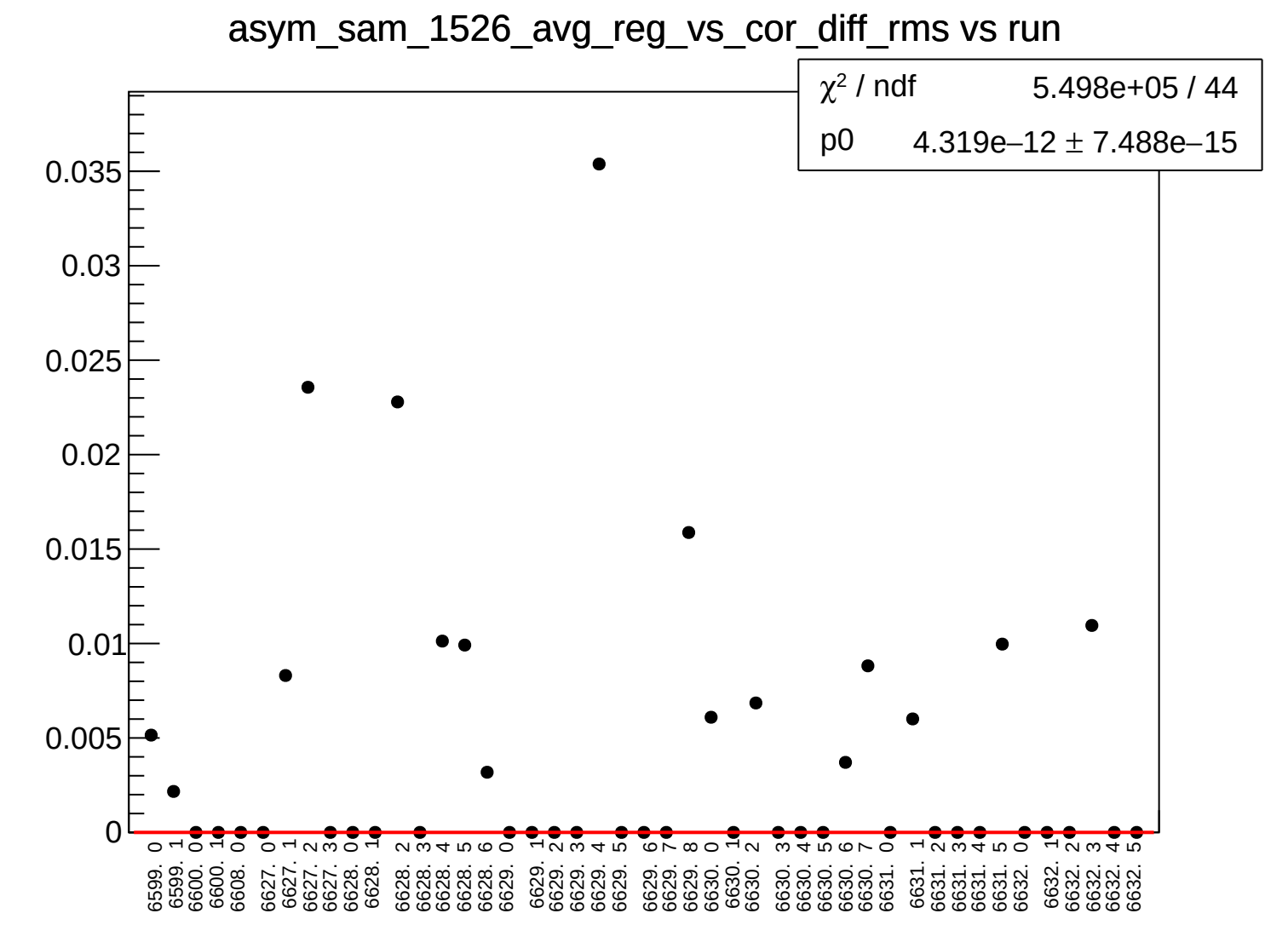

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 5784 / 44
p0 249.4 ± 0.2663
300
280
260
240
220
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

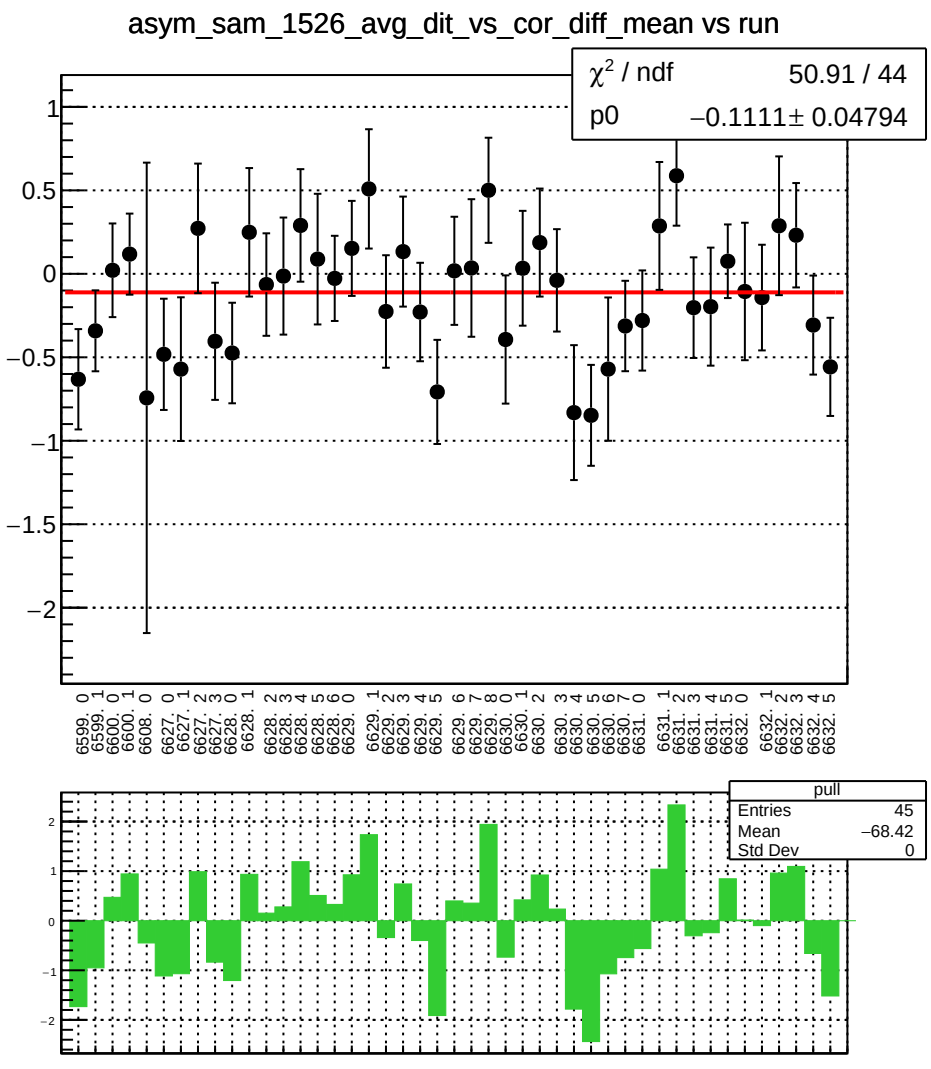

asym_sam_1526_avg_mean vs run
χ² / ndf 48.18 / 44
p0 −640.6 ± 401.8
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 322
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.006974
Std Dev 1.035
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

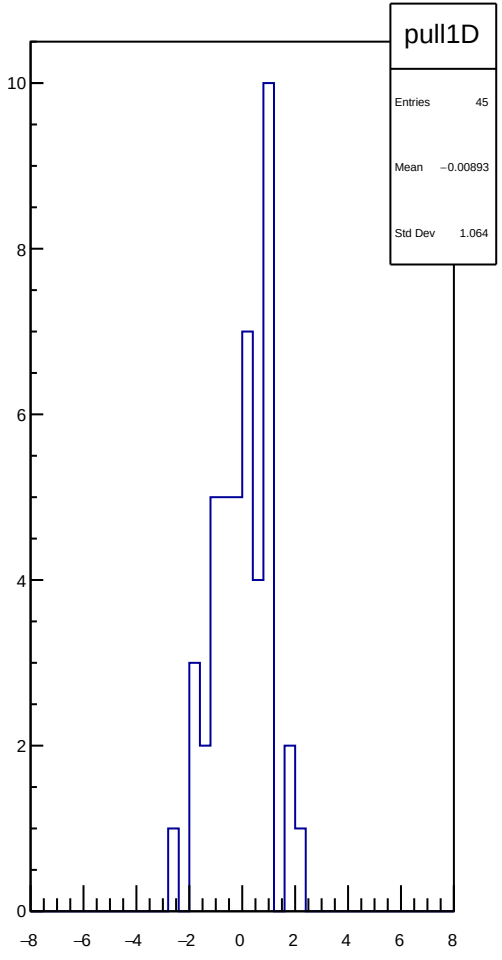

asym_sam_1526_avg_rms vs run
χ² / ndf 8763 / 44
p0 265.6 ± 0.2841
400
380
360
340
320
300
280
260
240
220
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

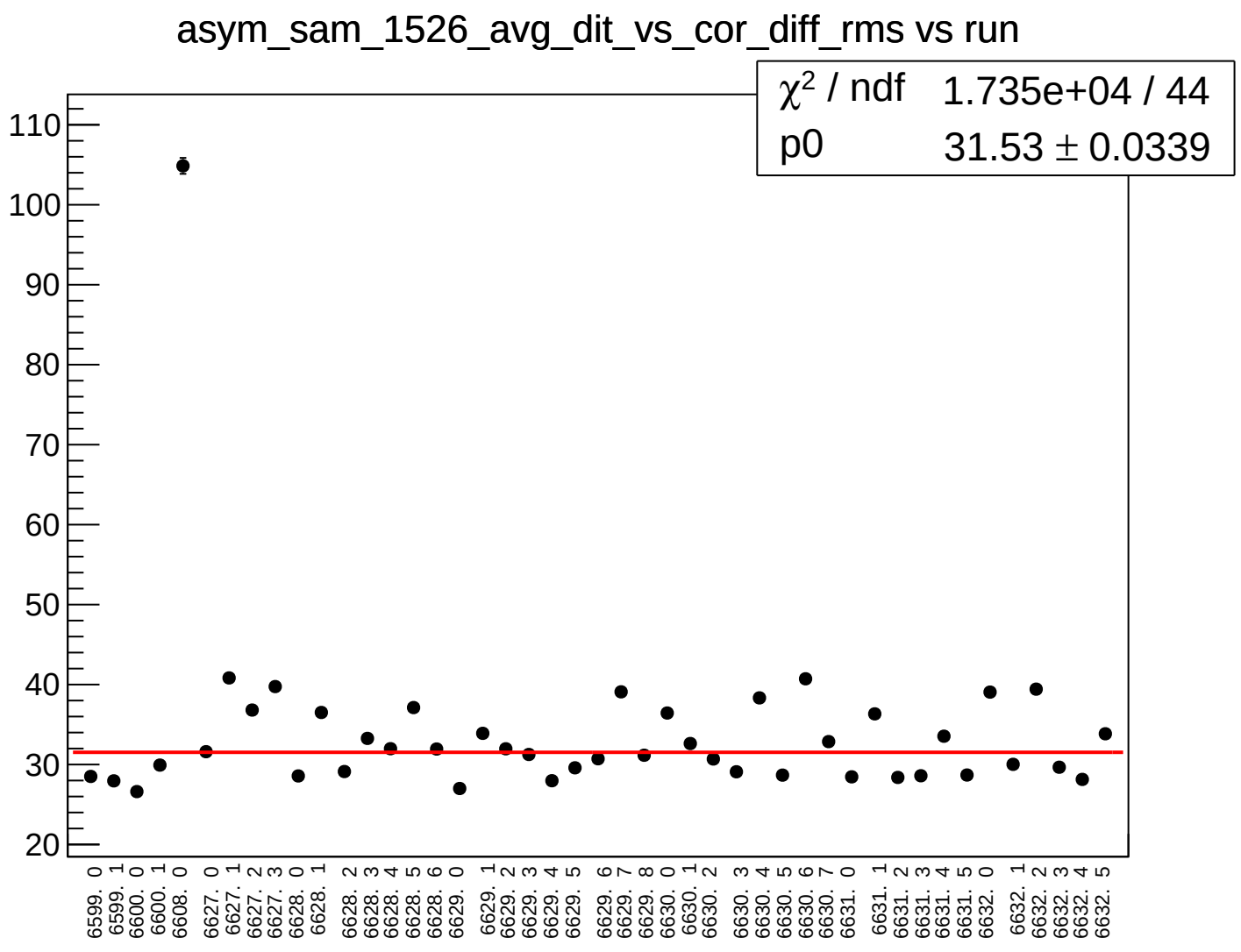

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 63.03 / 44
p0 1.243e−14 ± 1.059e−14
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 39.09
Std Dev 0
4
3
2
1
0
−1
−2

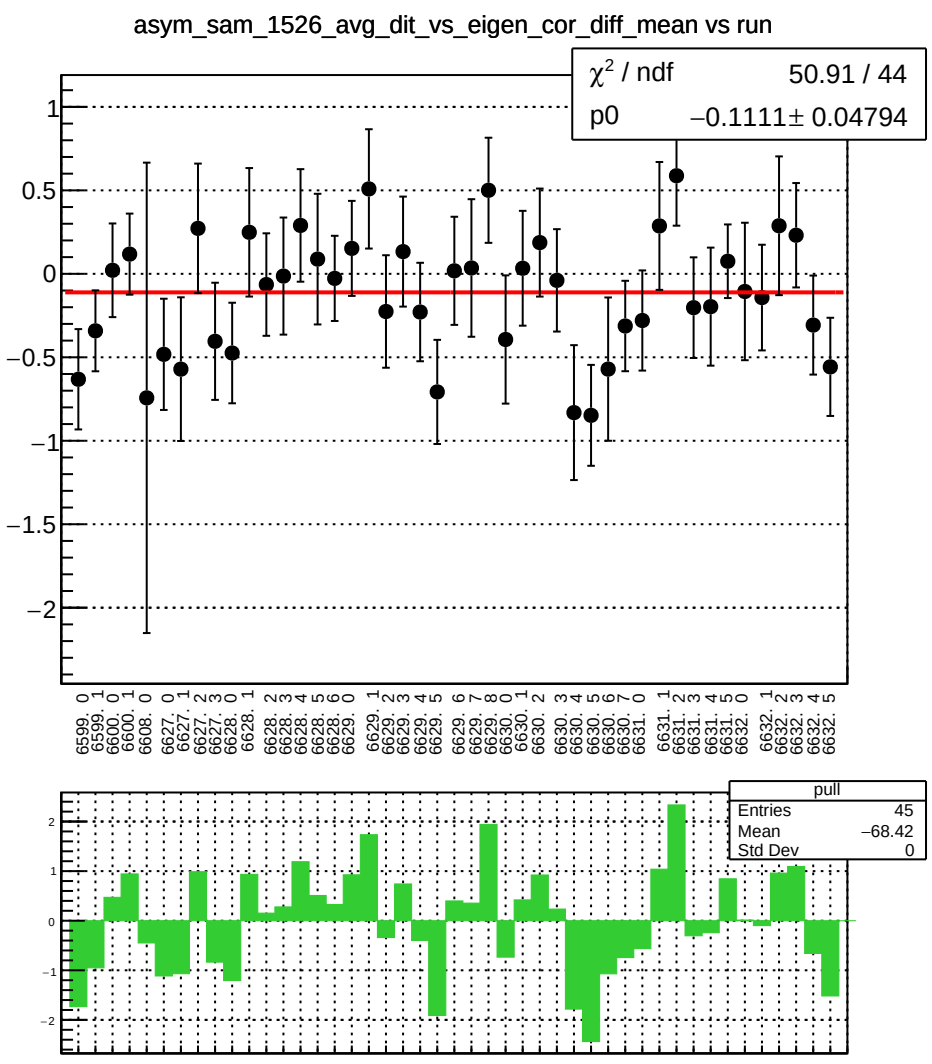

pull1D
Entries 45
Mean −0.1381
Std Dev 1.175
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

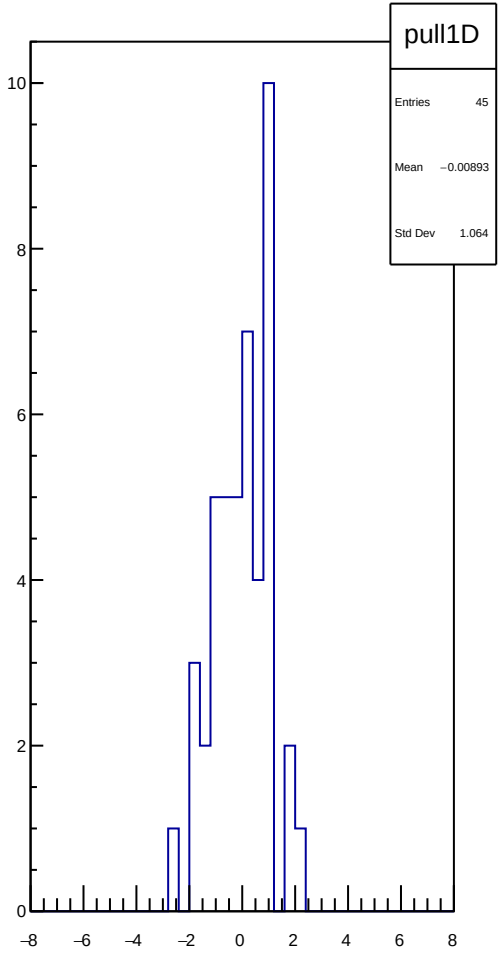

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.498e+05 / 44
p0 4.319e−12 ± 7.488e−15
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

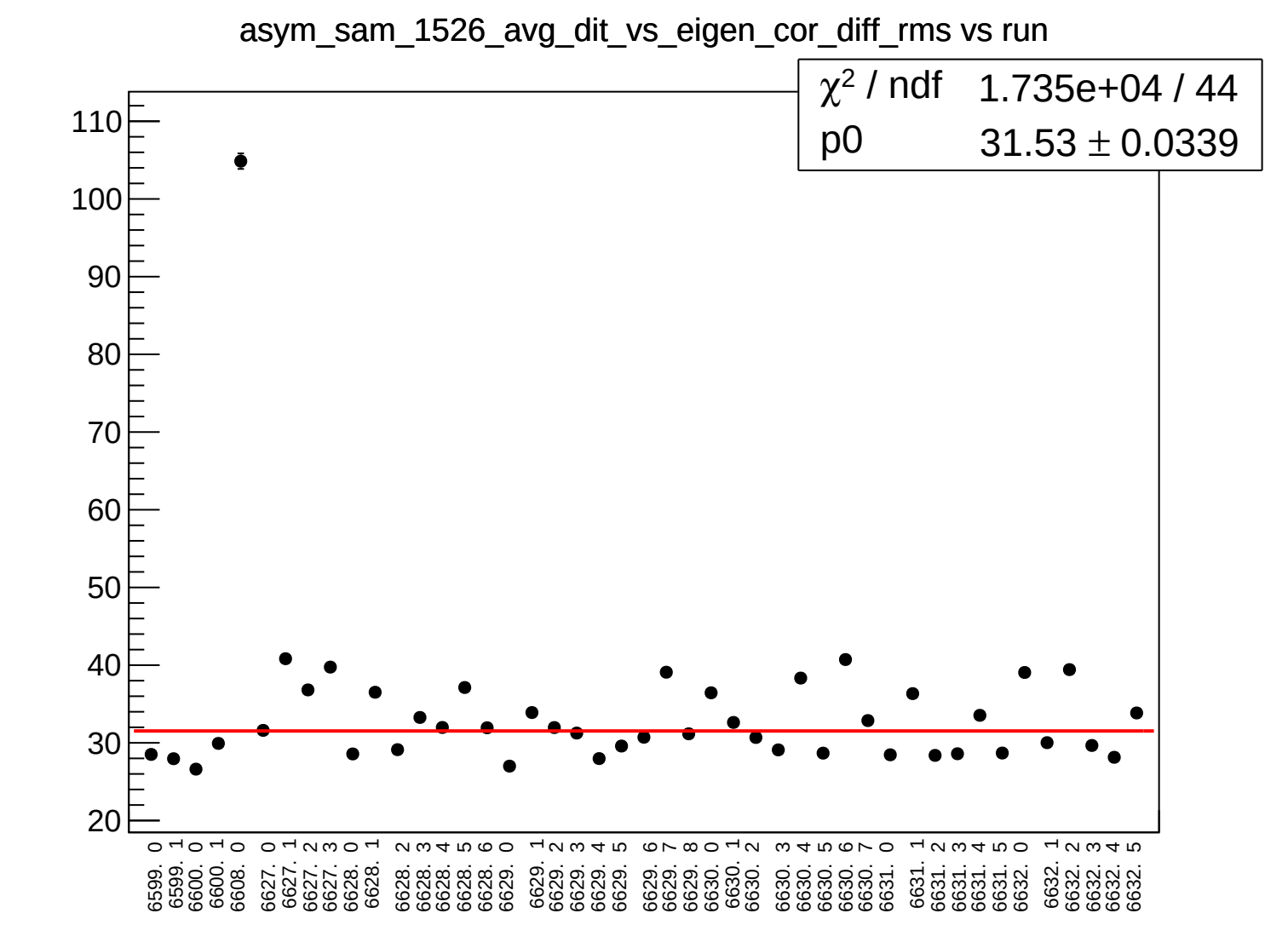

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 50.91 / 44
p0 −0.1111± 0.04794
1
0.5
0
−0.5
−1
−1.5
−2
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −68.42
Std Dev 0
2
1
0
−1
−2

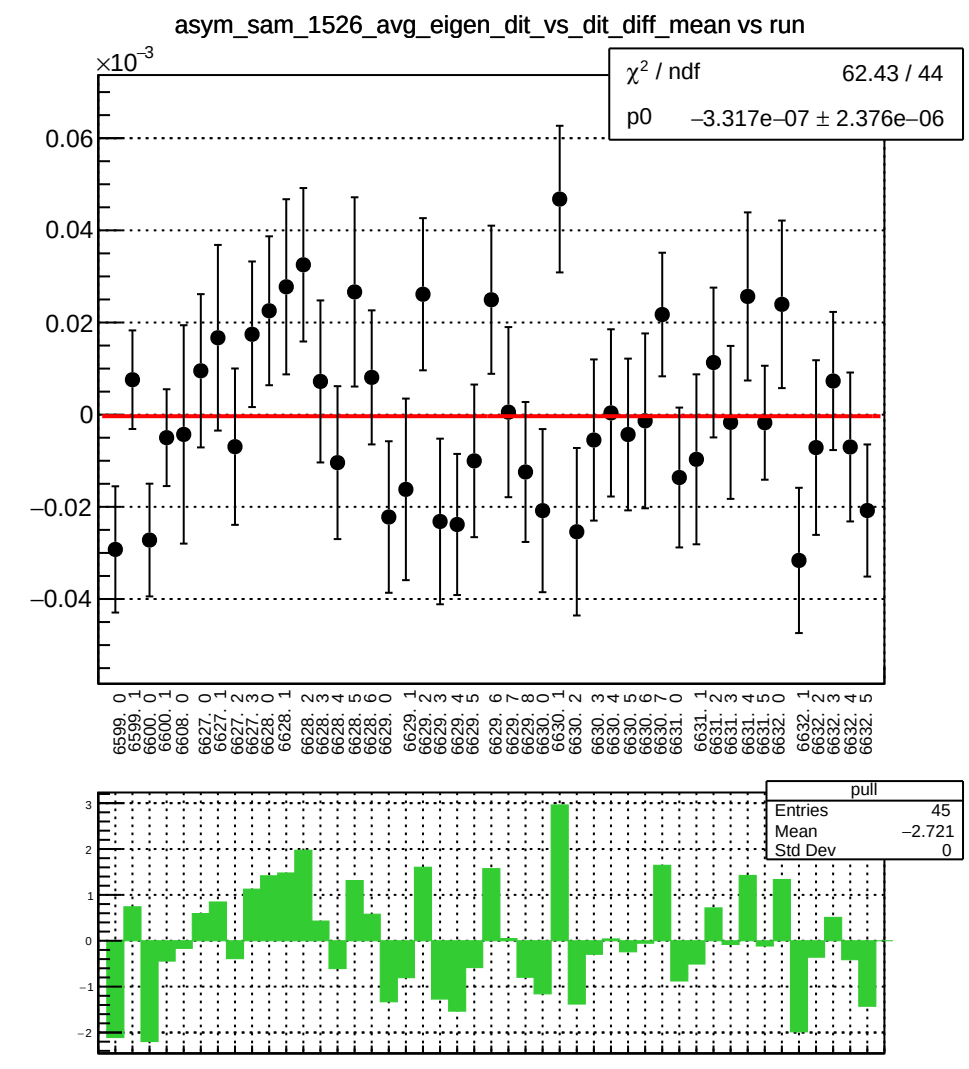

pull1D
Entries 45
Mean −0.00893
Std Dev 1.064
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

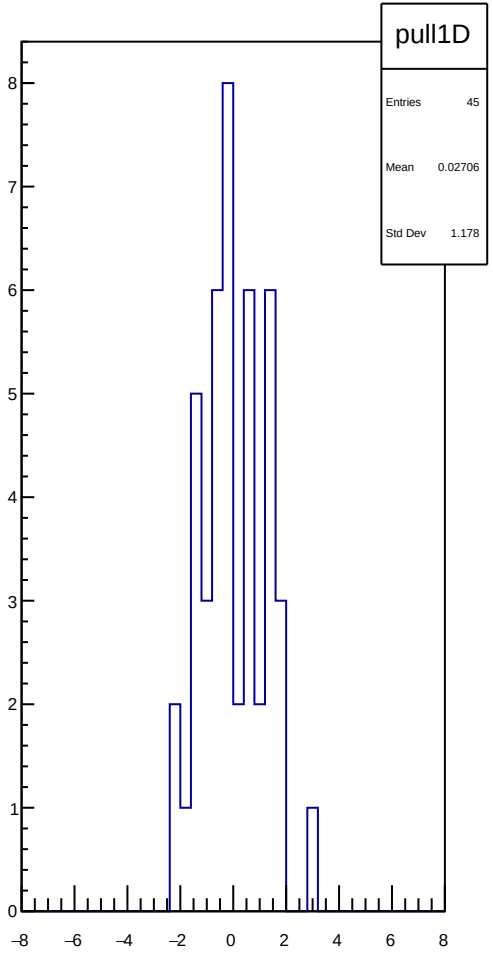

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.735e+04 / 44
p0 31.53 ± 0.0339
110
100
90
80
70
60
50
40
30
20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

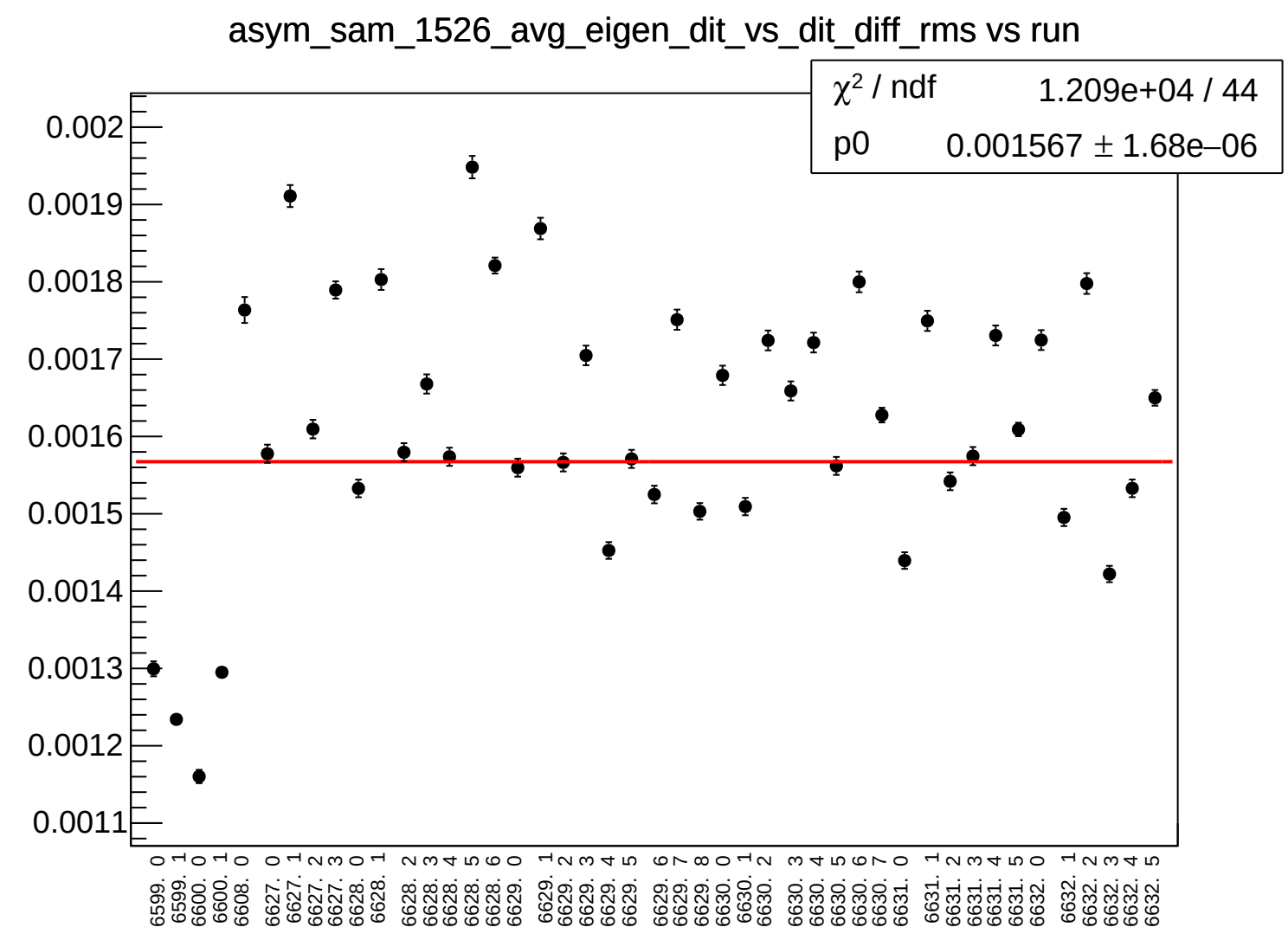

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.91 / 44
p0 −0.1111± 0.04794
pull
Entries 45
Mean −68.42
Std Dev 0

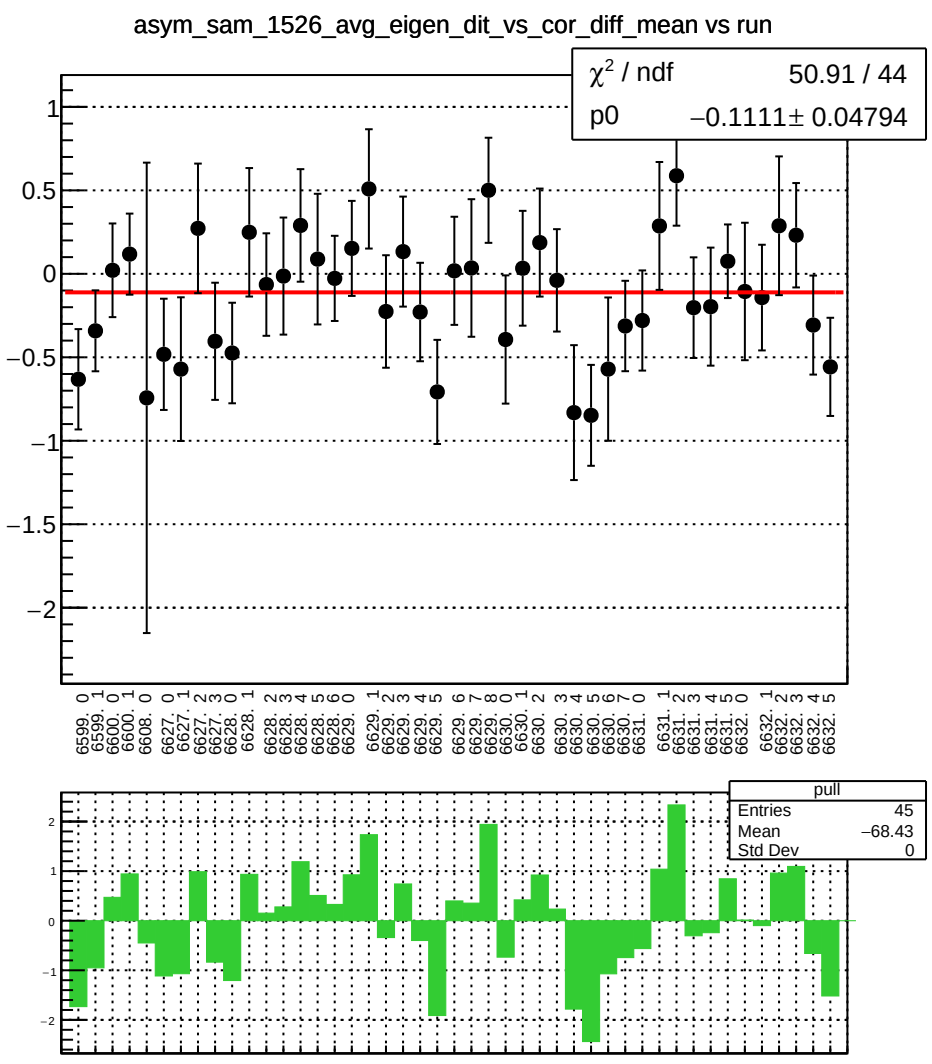

pull1D
Entries 45
Mean −0.00893
Std Dev 1.064

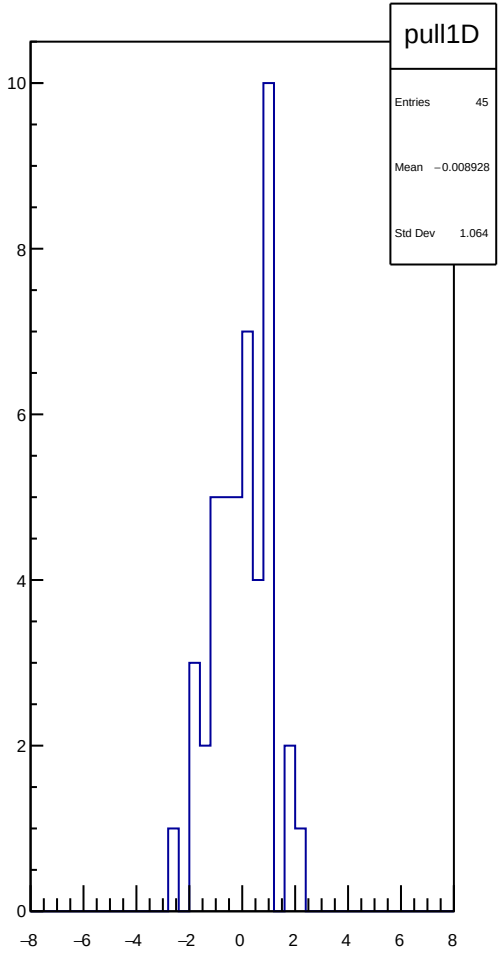

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.735e+04 / 44
p0 31.53 ± 0.0339
110
100
90
80
70
60
50
40
30
20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

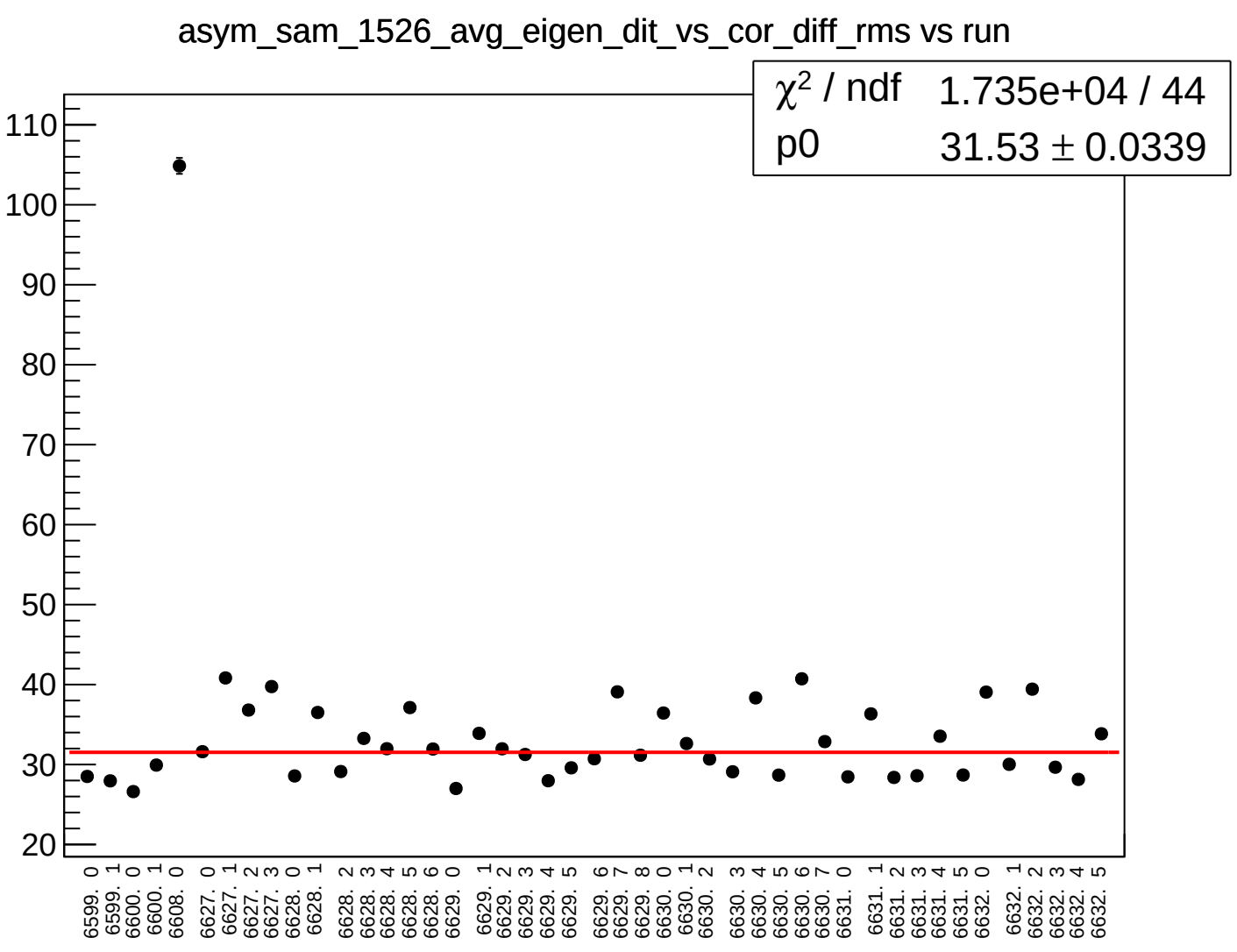

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 62.43 / 44
p0 −3.317e−07 ± 2.376e−06
0.06
0.04
0.02
0
−0.02
−0.04
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −2.721
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.02706
Std Dev 1.178
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

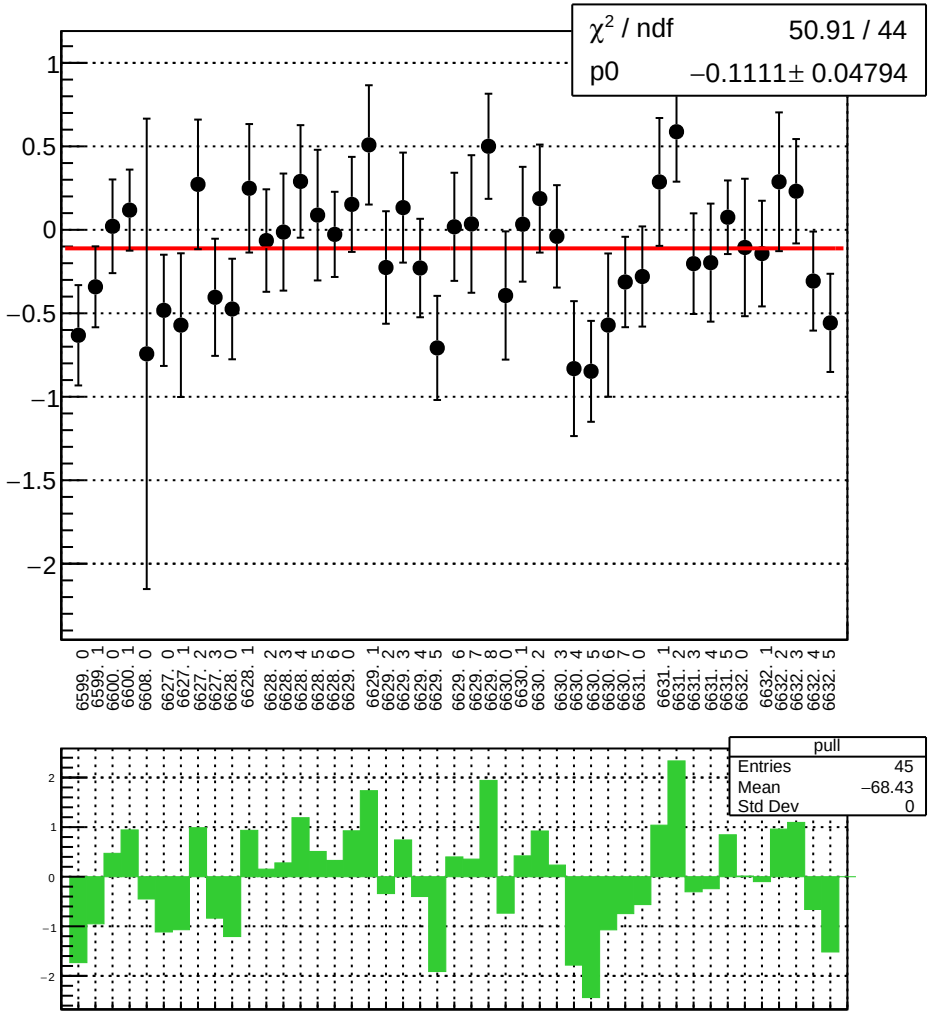

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.209e+04 / 44
p0 0.001567 ± 1.68e–06
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

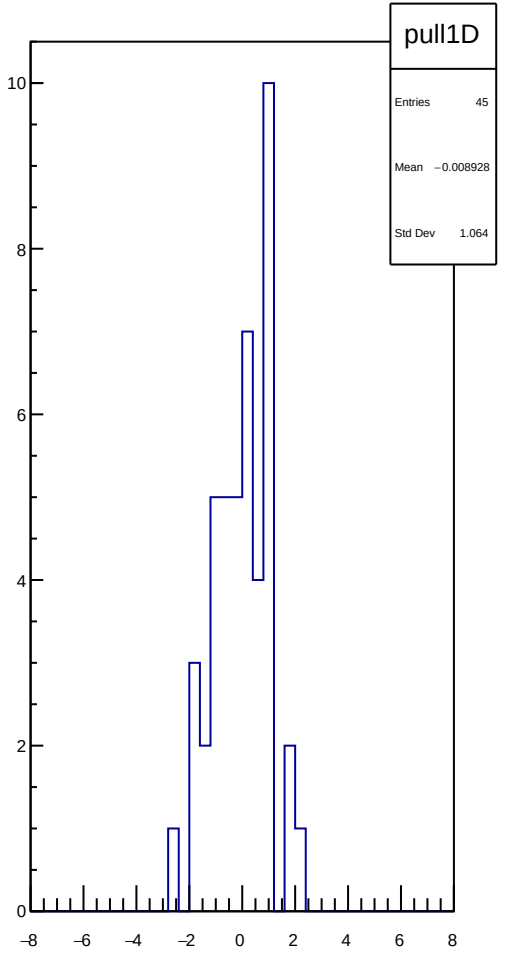

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 50.91 / 44
p0 −0.1111± 0.04794
pull
Entries 45
Mean −68.43
Std Dev 0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

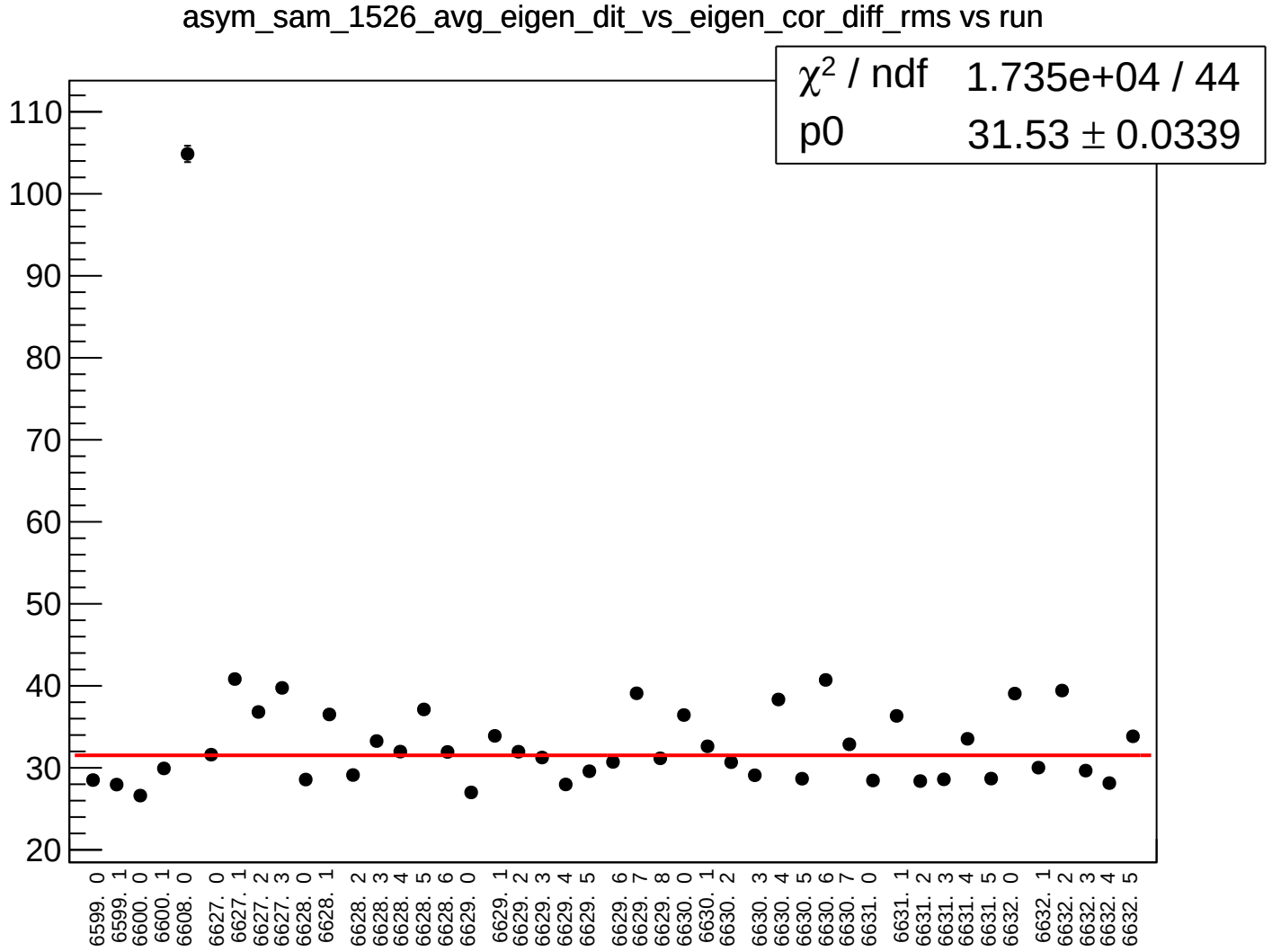

pull1D
Entries 45
Mean −0.008928
Std Dev 1.064


asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.735e+04 / 44
p0 31.53 ± 0.0339
110
100
90
80
70
60
50
40
30
20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run




asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.735e+04 / 44
p0 31.53 ± 0.0339
110
100
90
80
70
60
50
40
30
20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6628. 0
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6628. 2
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6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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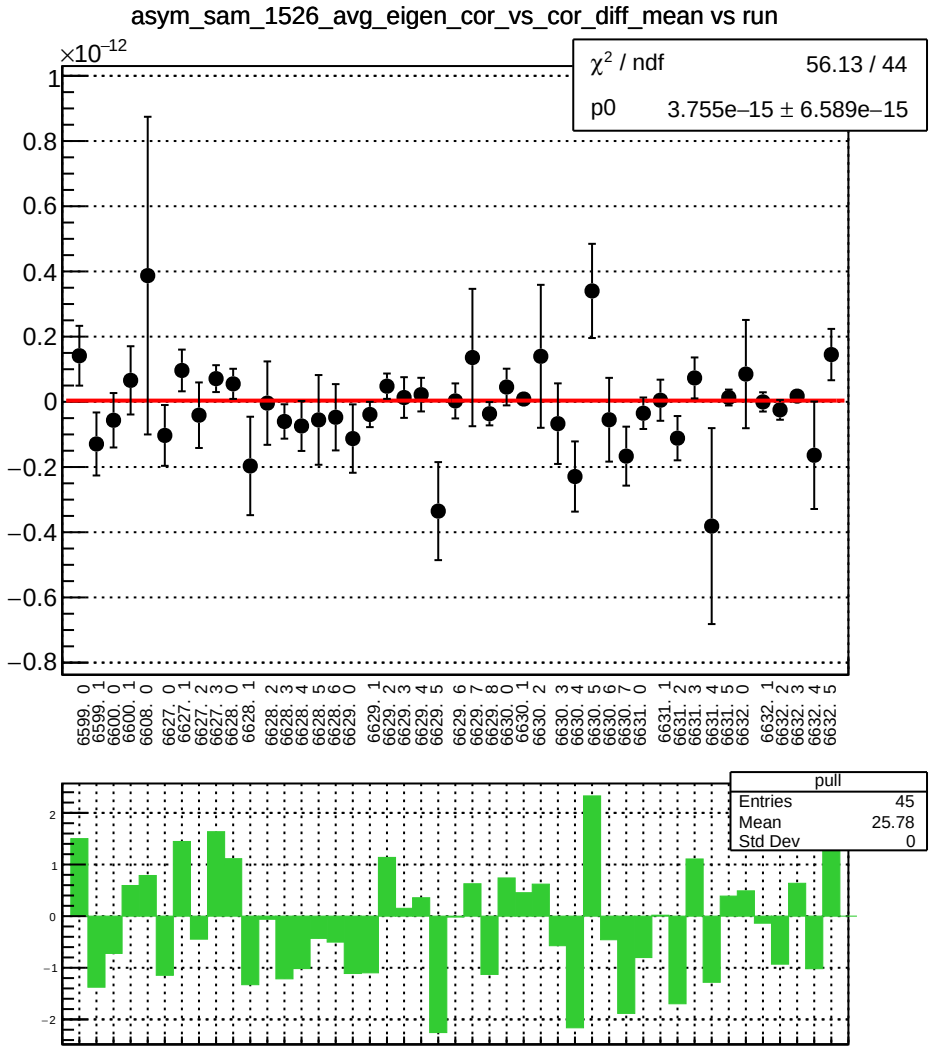
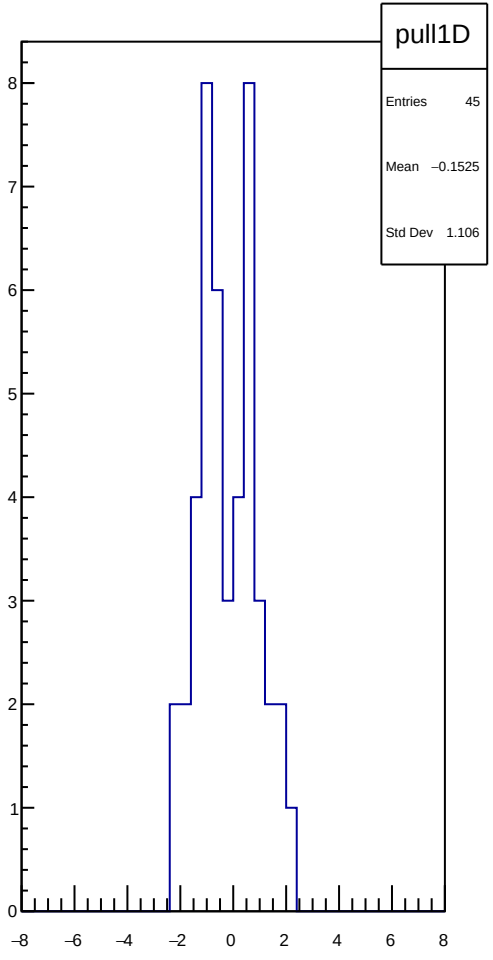
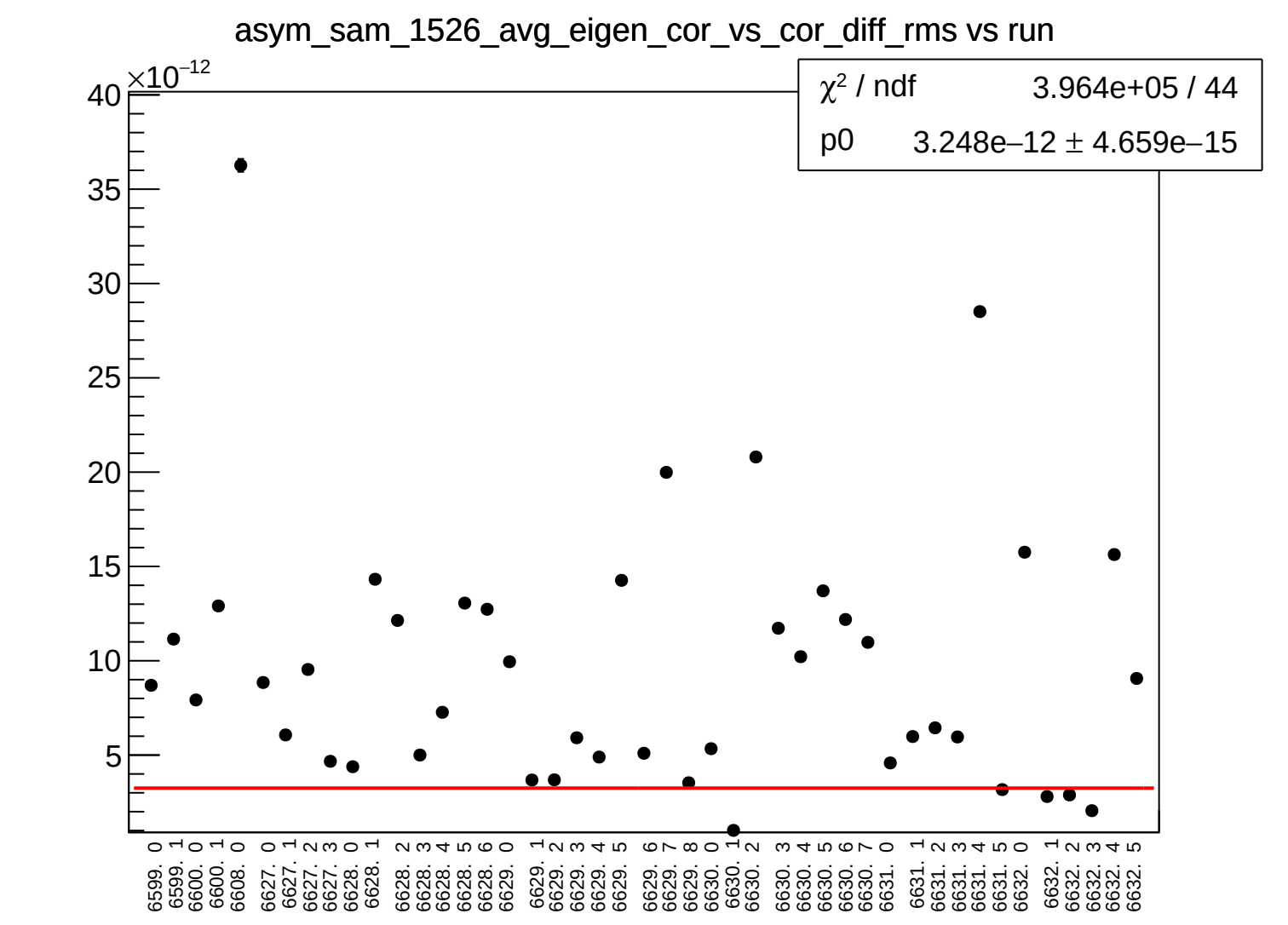
6632. 5


asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 56.13 / 44
p0 3.755e−15 ± 6.589e−15
pull
Entries 45
Mean 25.78
Std Dev 0


pull1D
Entries 45
Mean −0.1525
Std Dev 1.106


asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.964e+05 / 44
p0 3.248e−12 ± 4.659e−15
40
35
30
25
20
15
10
5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
6631. 5
6632. 0
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6632. 2
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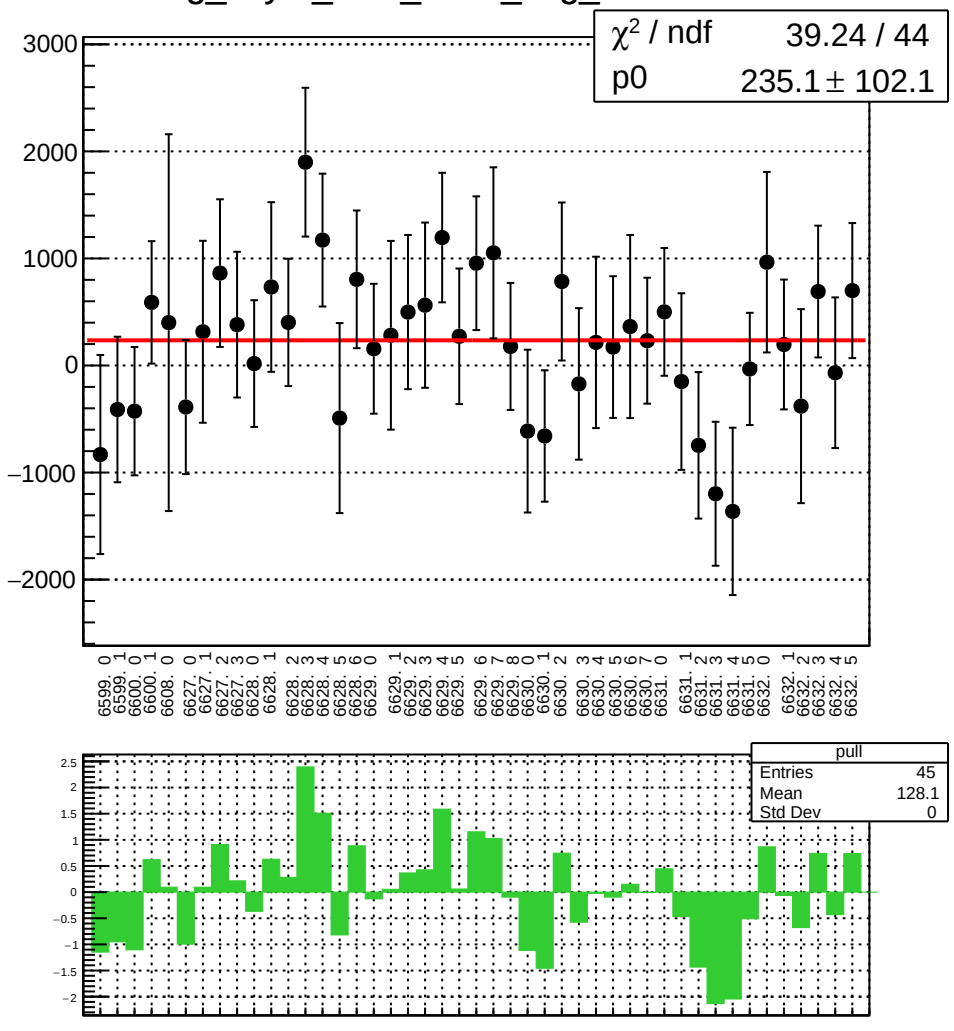
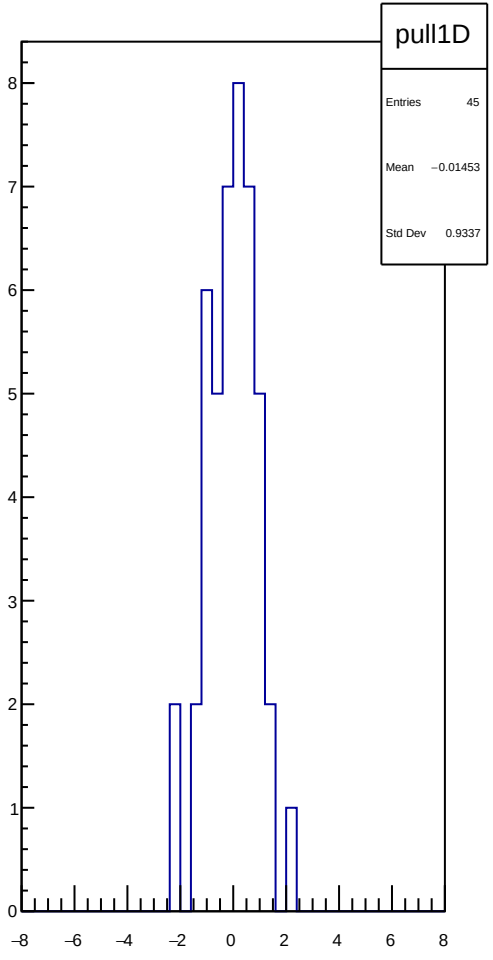
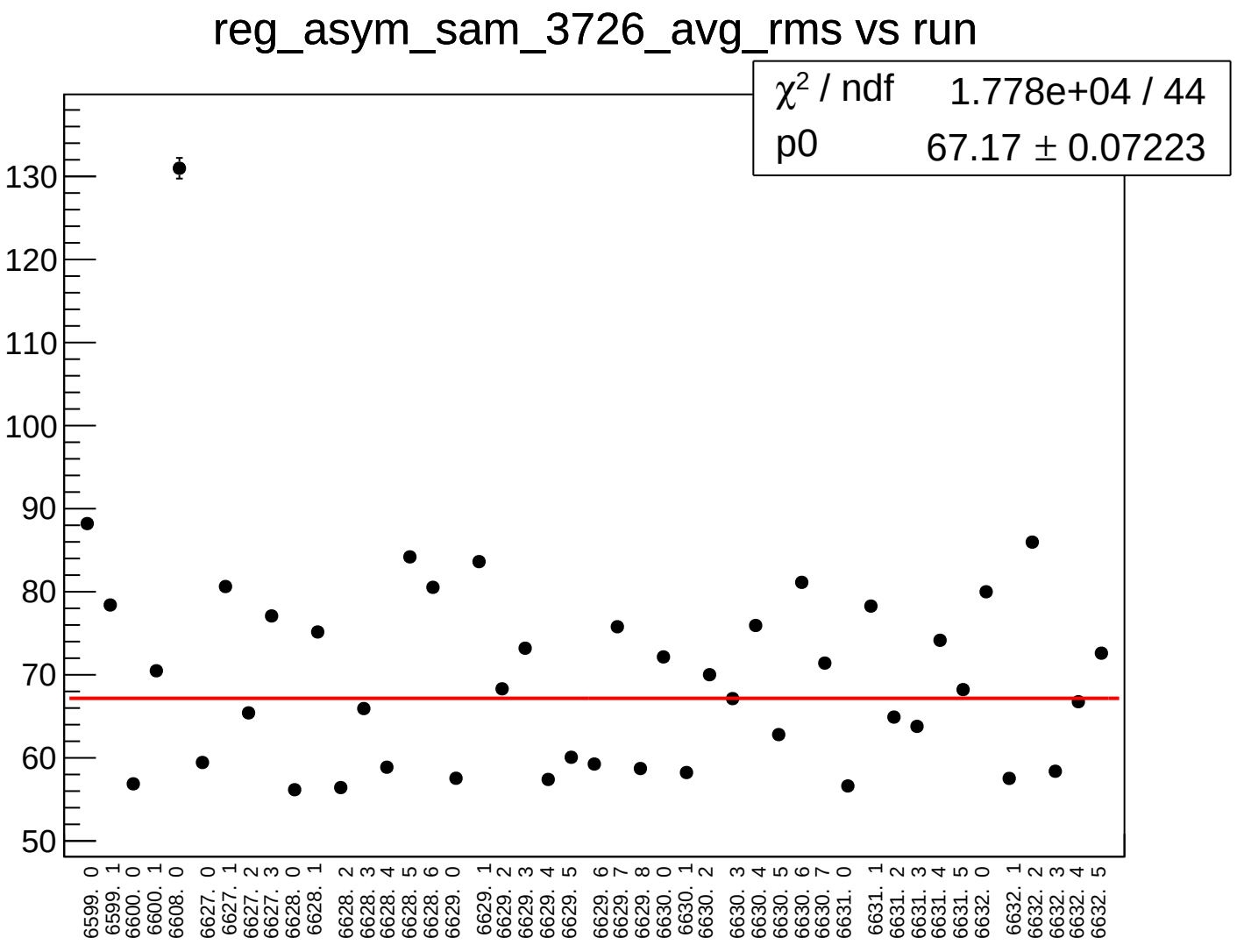
6632. 4
6632. 5


reg_asym_sam_3726_avg_mean vs run
χ² / ndf 39.24 / 44
p0 235.1 ± 102.1
3000
2000
1000
0
−1000
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 128.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.01453
Std Dev 0.9337
8
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
$\chi^2$ / ndf 1.778e+04 / 44
p0 67.17 ± 0.07223
130
120
110
100
90
80
70
60
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
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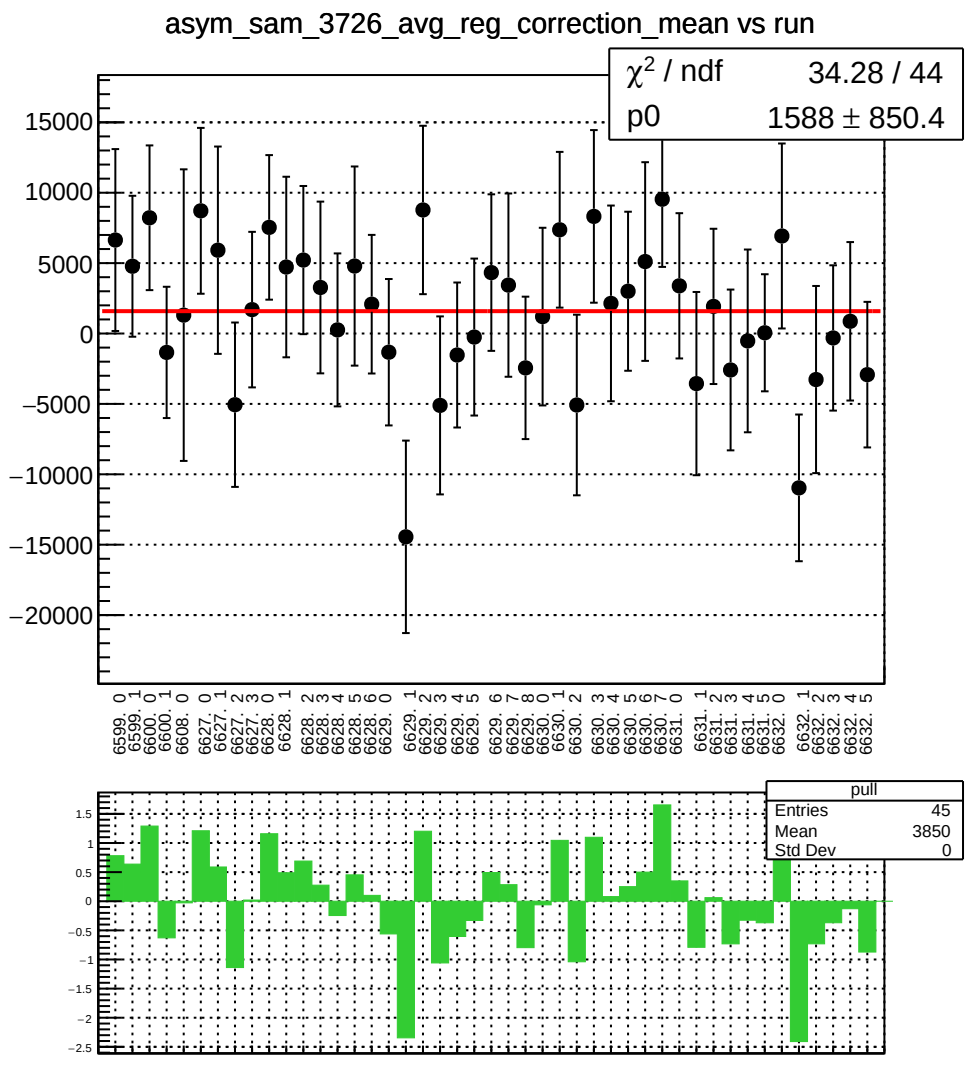
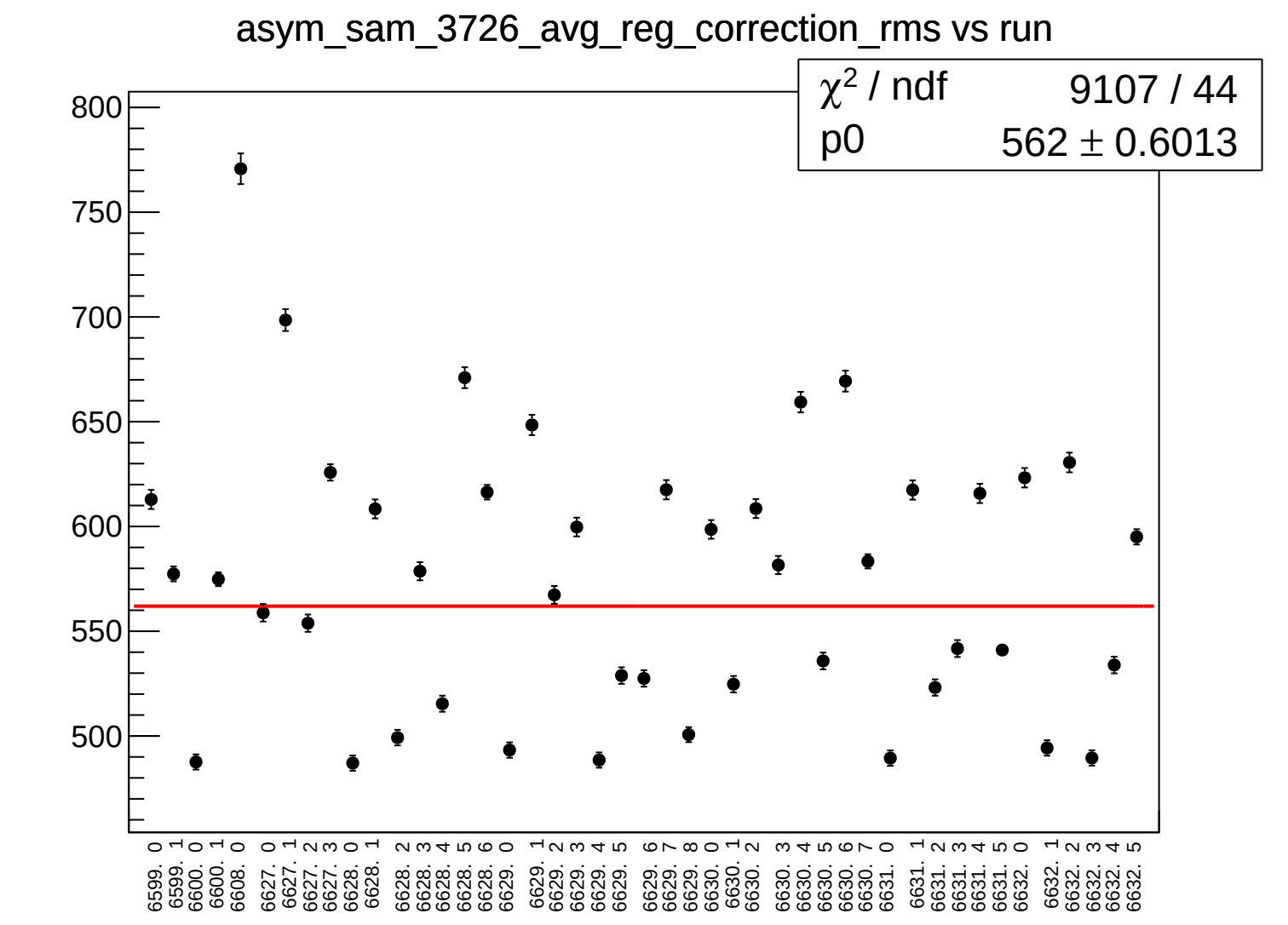
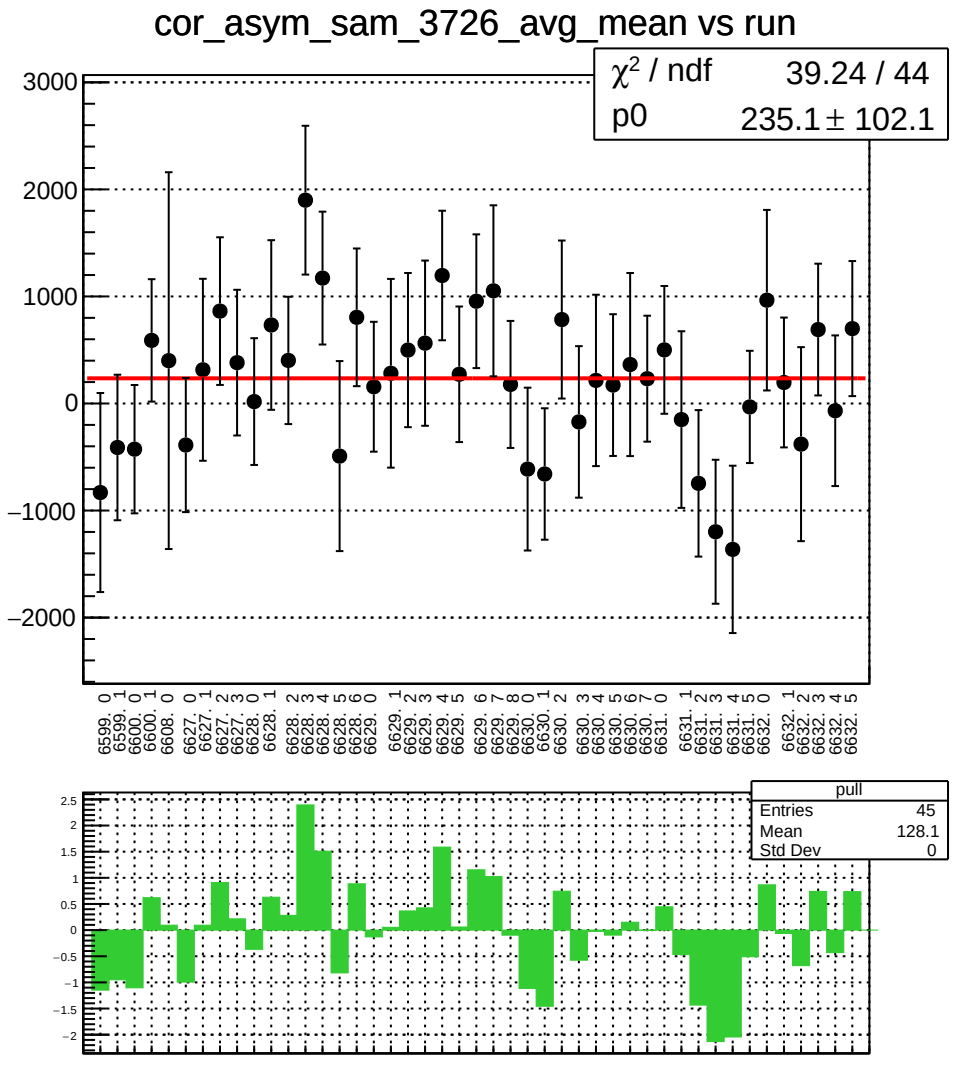
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 34.28 / 44
p0 1588 ± 850.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 3850
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.0008503
Std Dev 0.8728
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 9107 / 44
p0 562 ± 0.6013
800
750
700
650
600
550
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_sam_3726_avg_mean vs run
χ² / ndf 39.24 / 44
p0 235.1 ± 102.1
3000
2000
1000
0
−1000
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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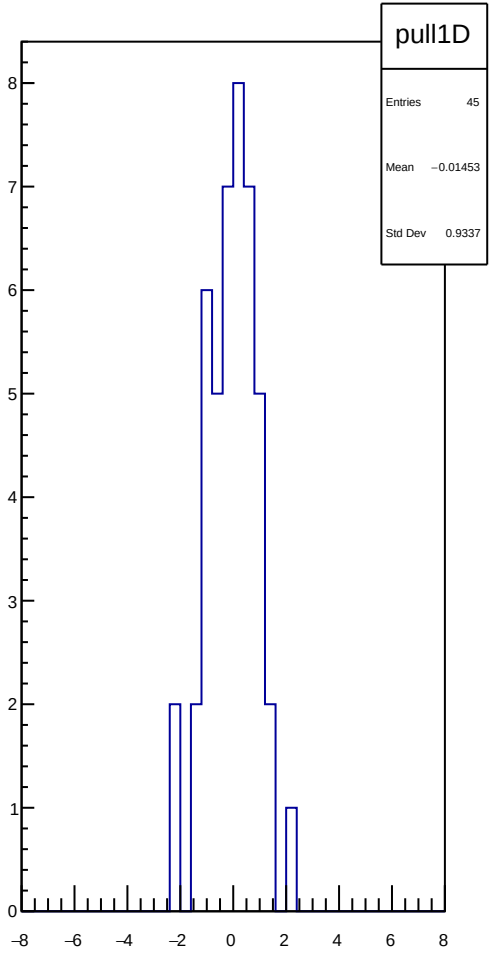
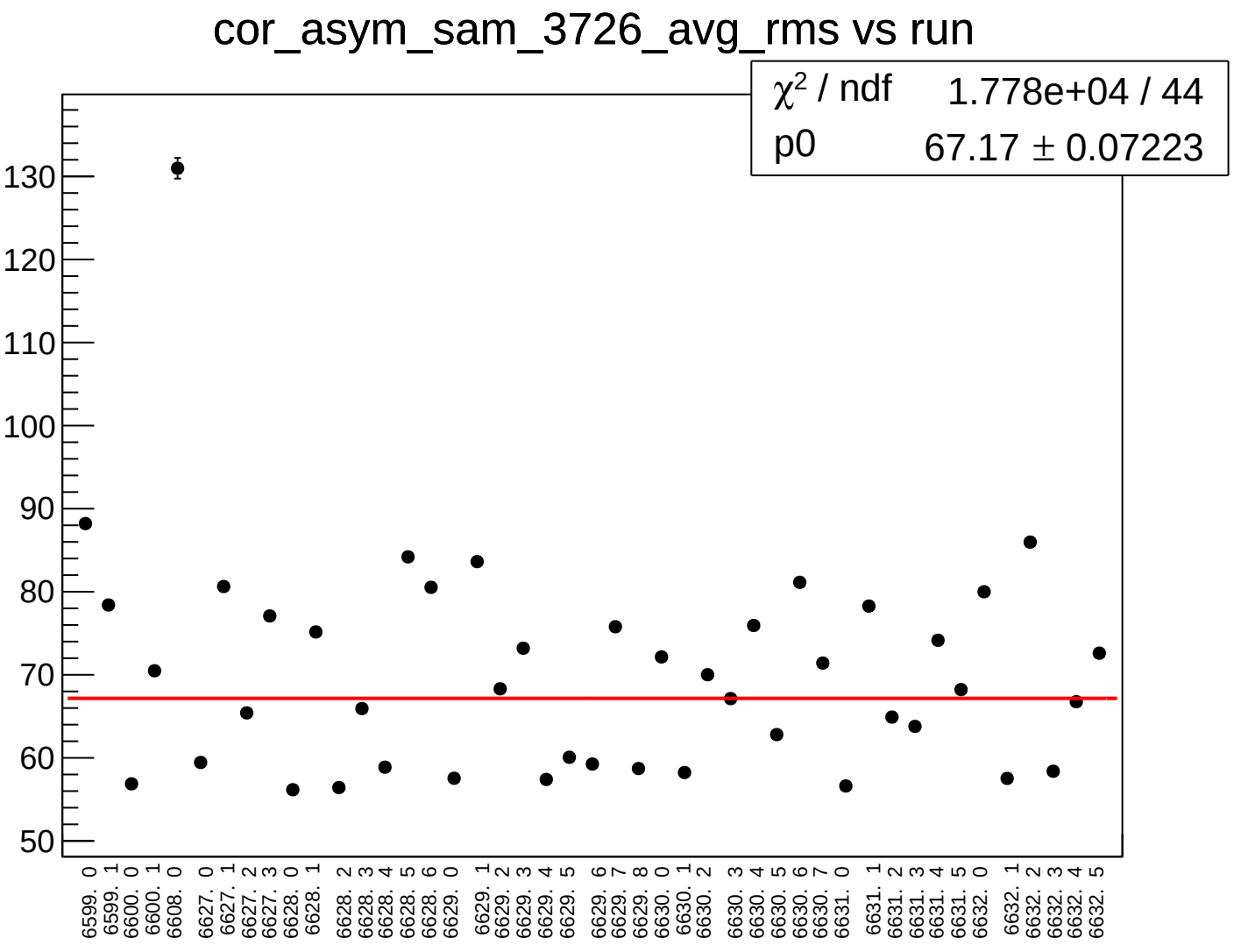
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 128.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.01453
Std Dev 0.9337
8
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 1.778e+04 / 44
p0 67.17 ± 0.07223
130
120
110
100
90
80
70
60
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6631. 1
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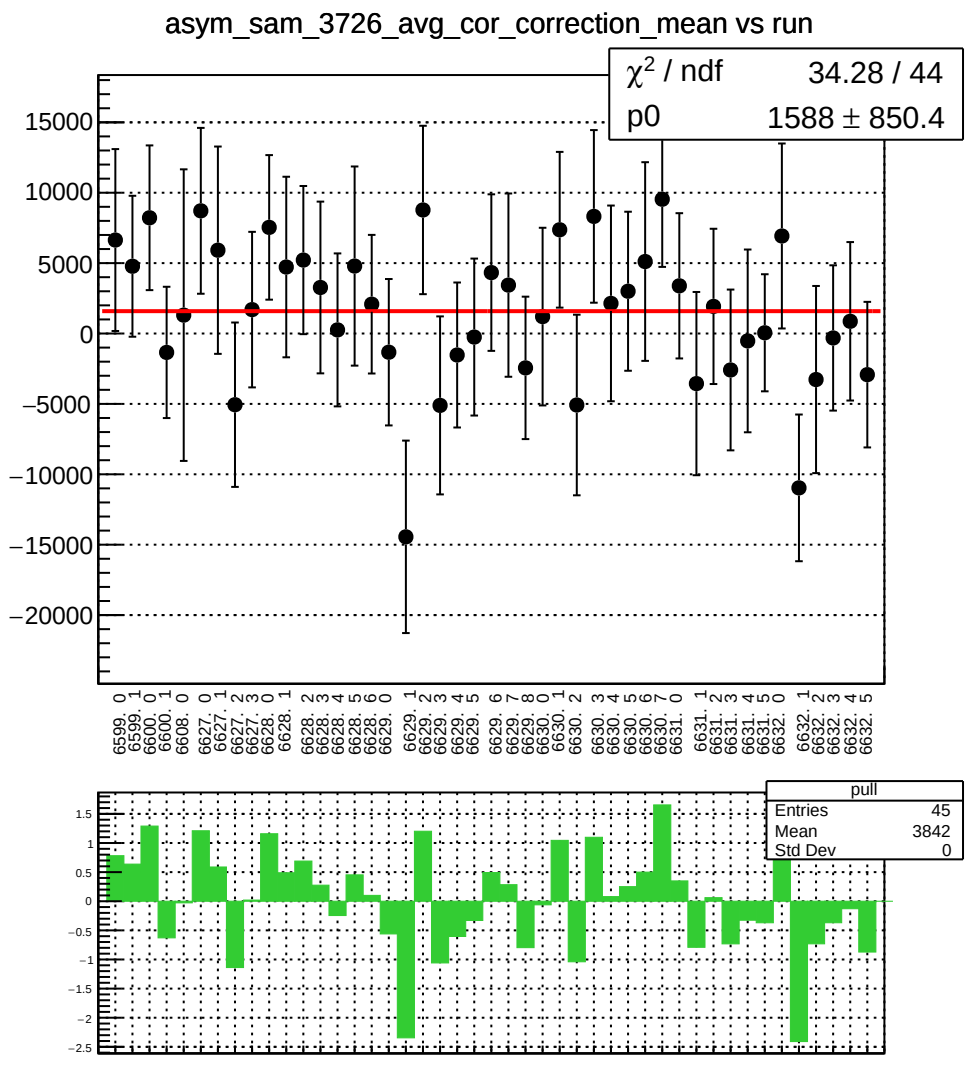
6632. 4
6632. 5


asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 34.28 / 44
p0 1588 ± 850.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 4
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6628. 6
6629. 0
6629. 1
6629. 2
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 4
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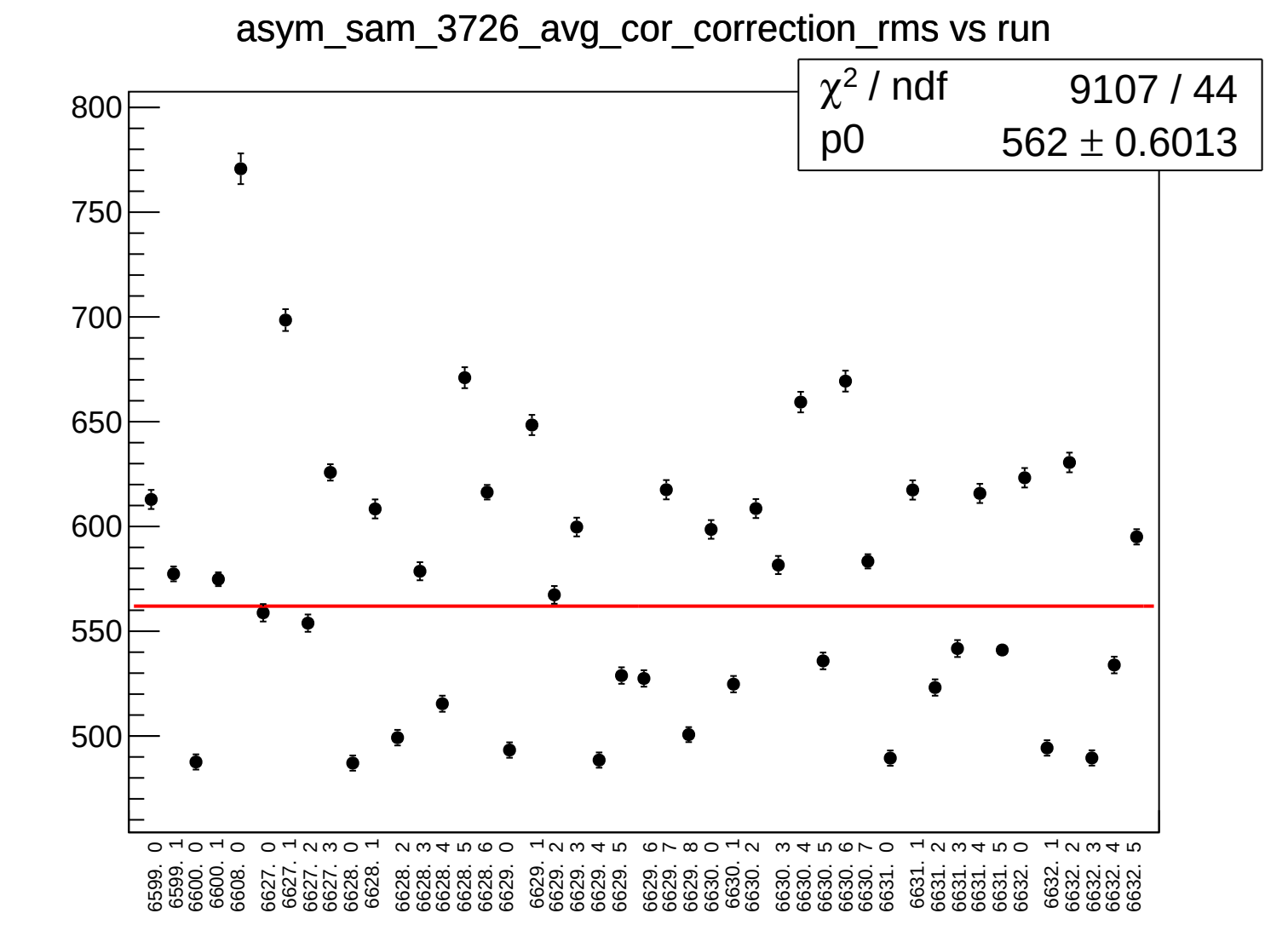
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 3842
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.0008521
Std Dev 0.8728
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 9107 / 44
p0 562 ± 0.6013
800
750
700
650
600
550
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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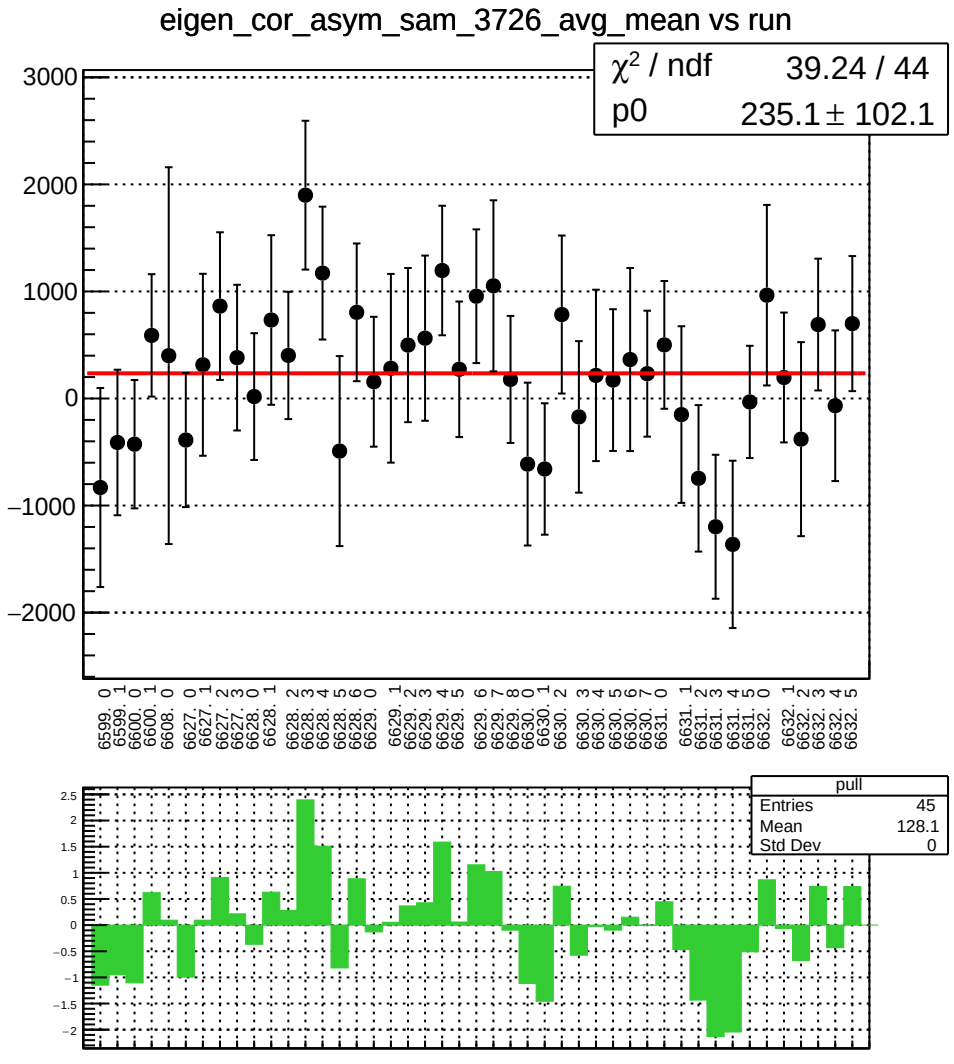
6632. 5


eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 39.24 / 44
p0 235.1 ± 102.1
3000
2000
1000
0
−1000
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
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6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 7
6629. 8
6630. 0
6630. 1
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6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 128.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01453
Std Dev 0.9337
8
7
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5
4
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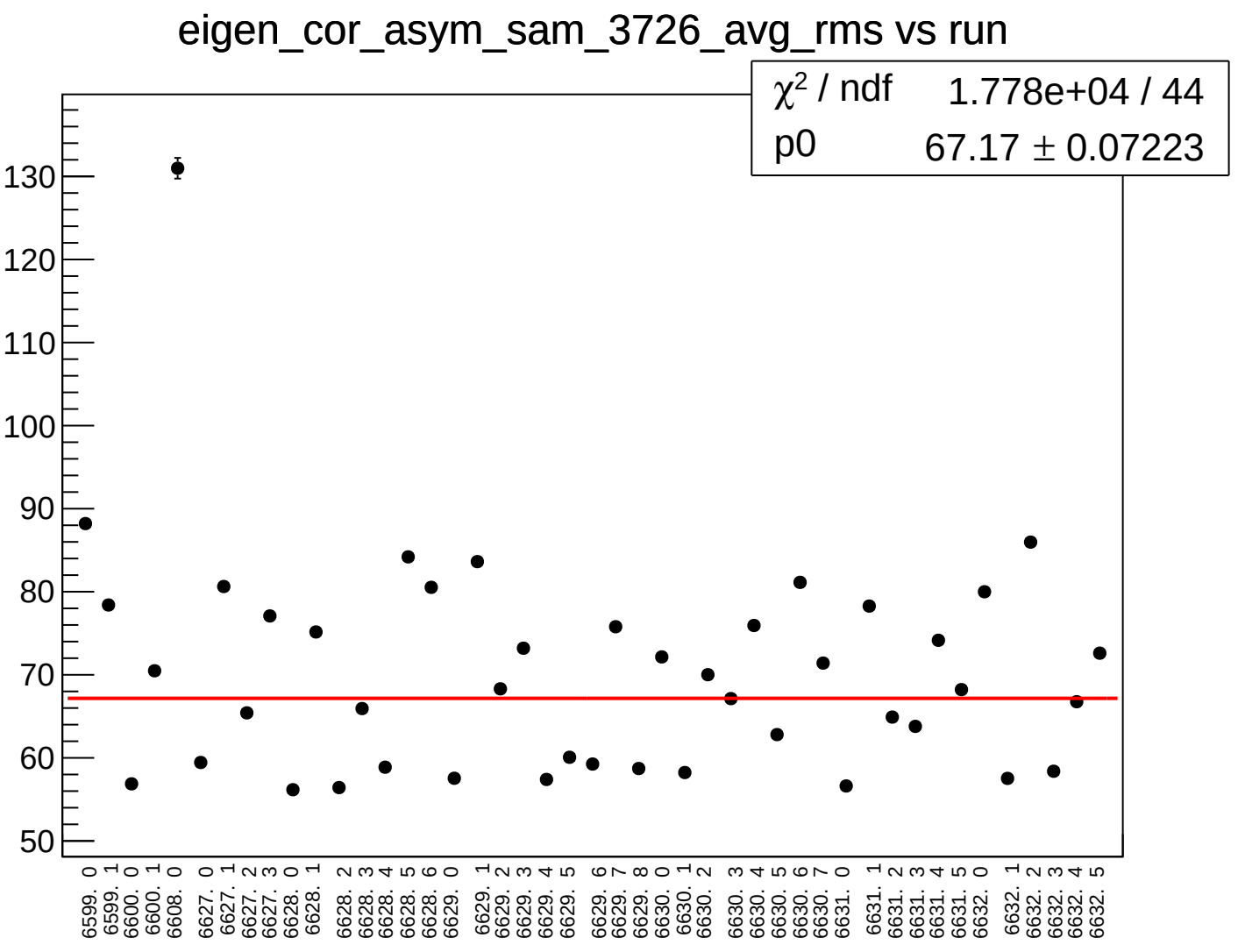
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 1.778e+04 / 44
p0 67.17 ± 0.07223
130
120
110
100
90
80
70
60
50
6599. 0
6599. 1
6600. 0
6600. 1
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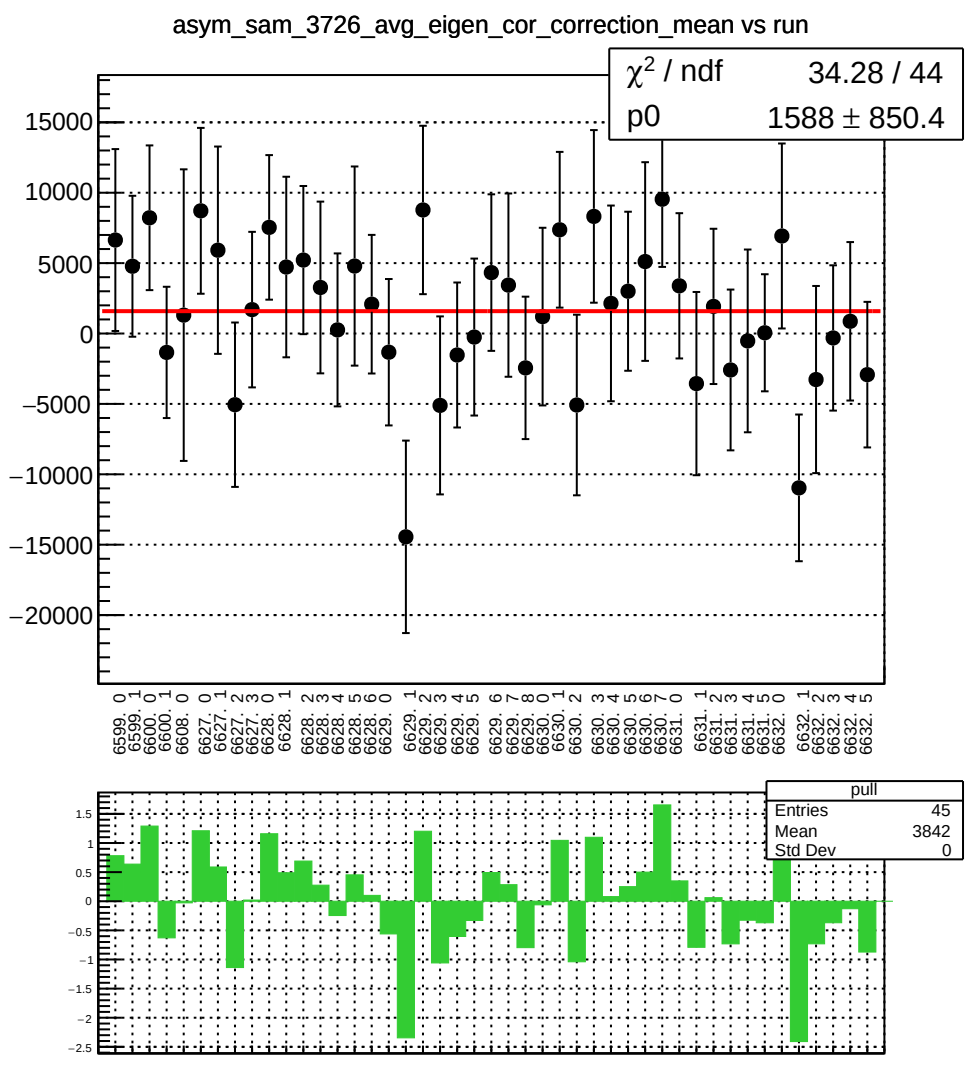
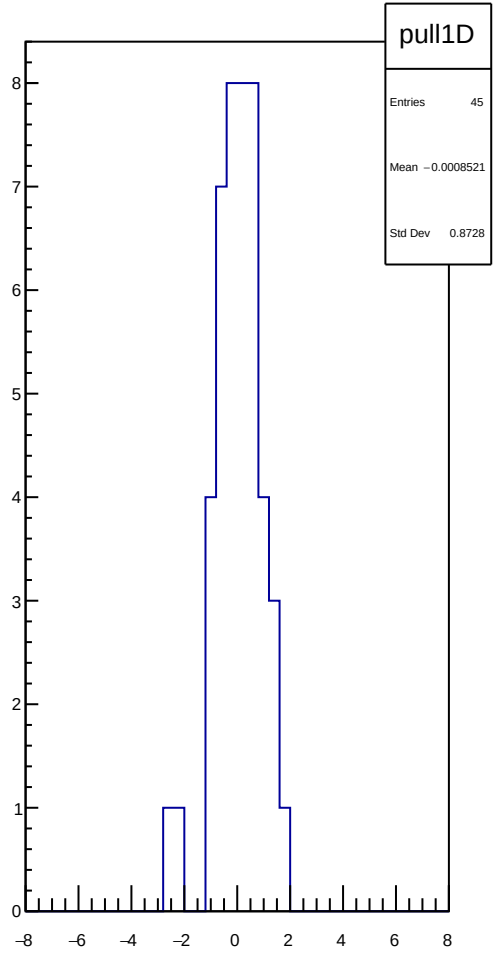
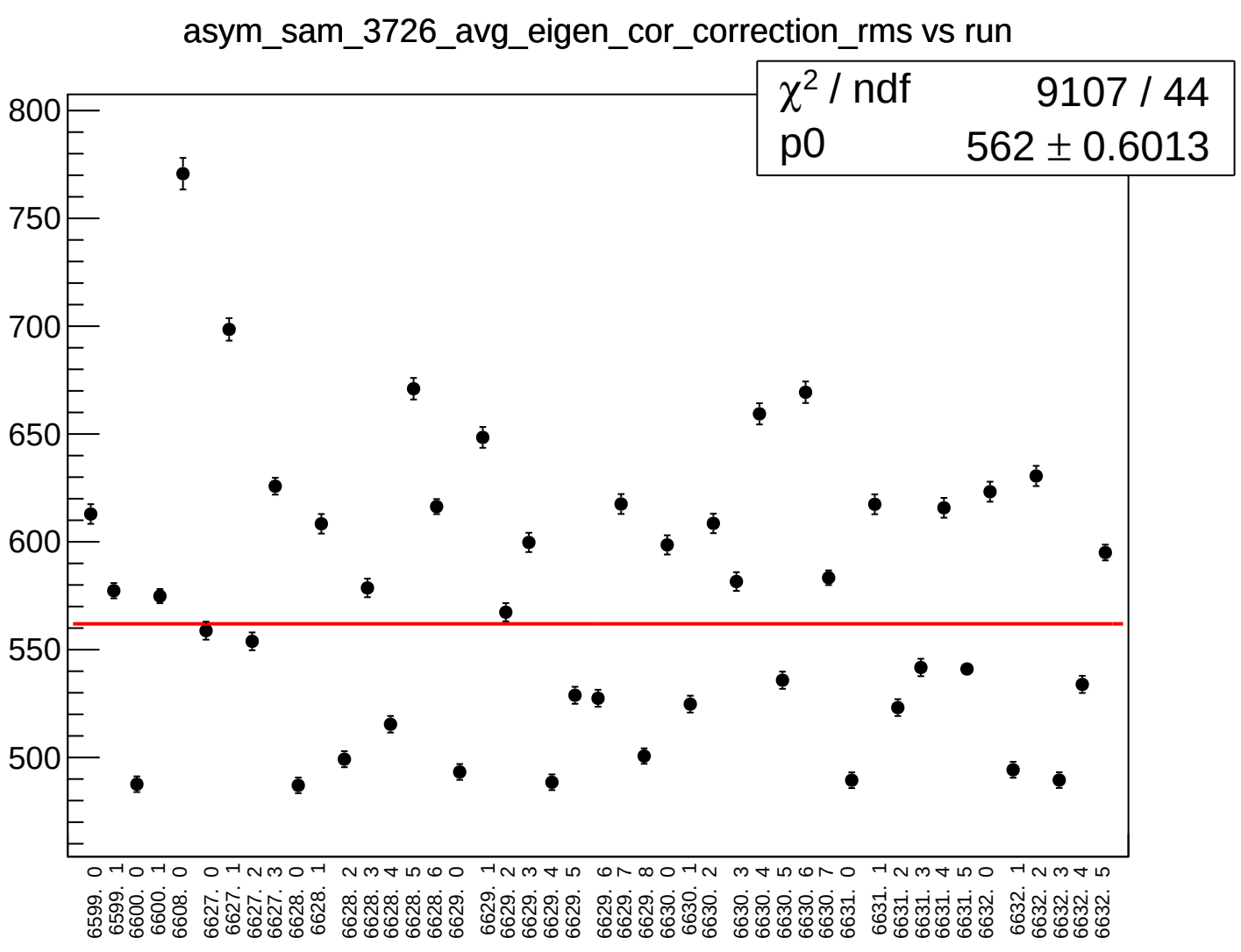
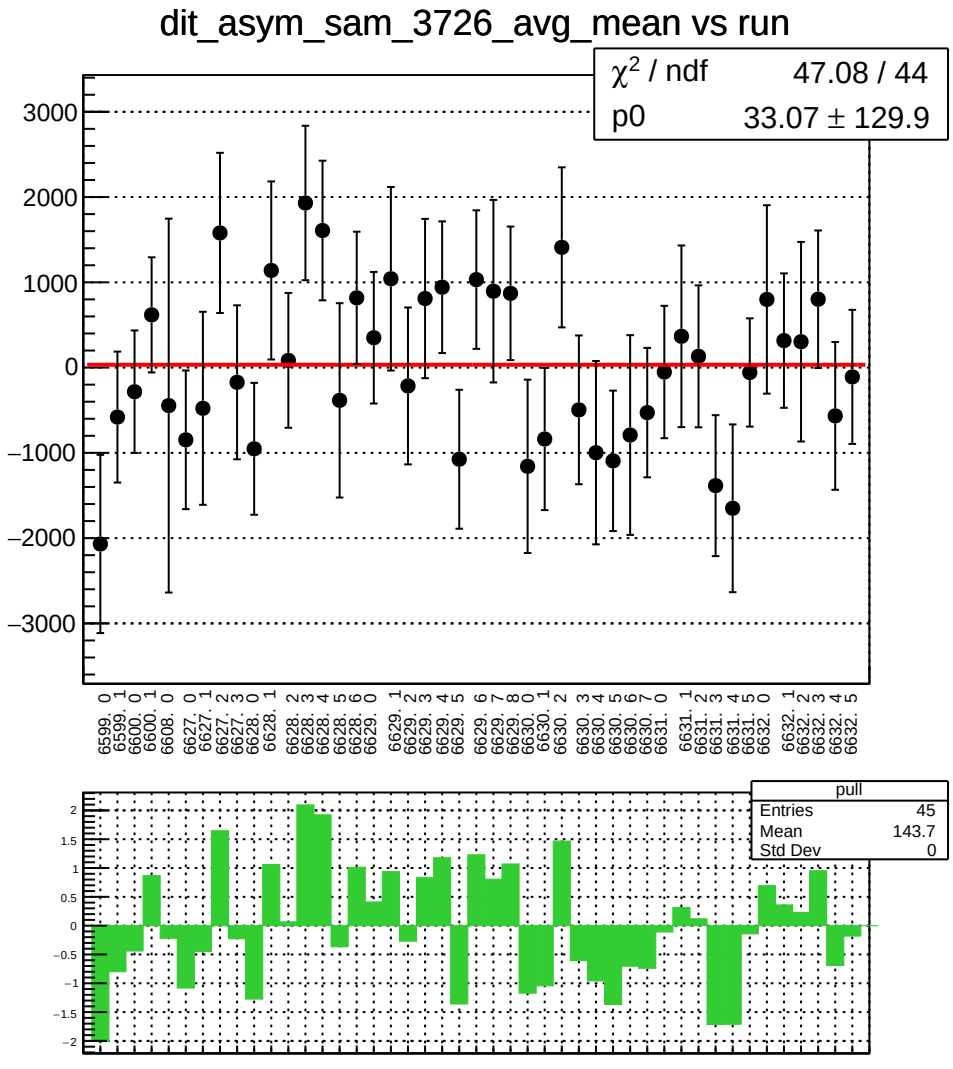
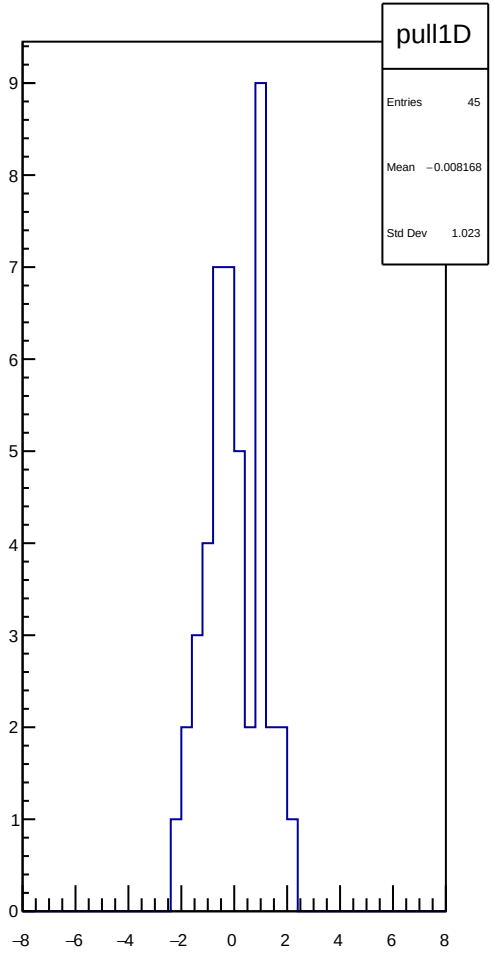
6632. 5

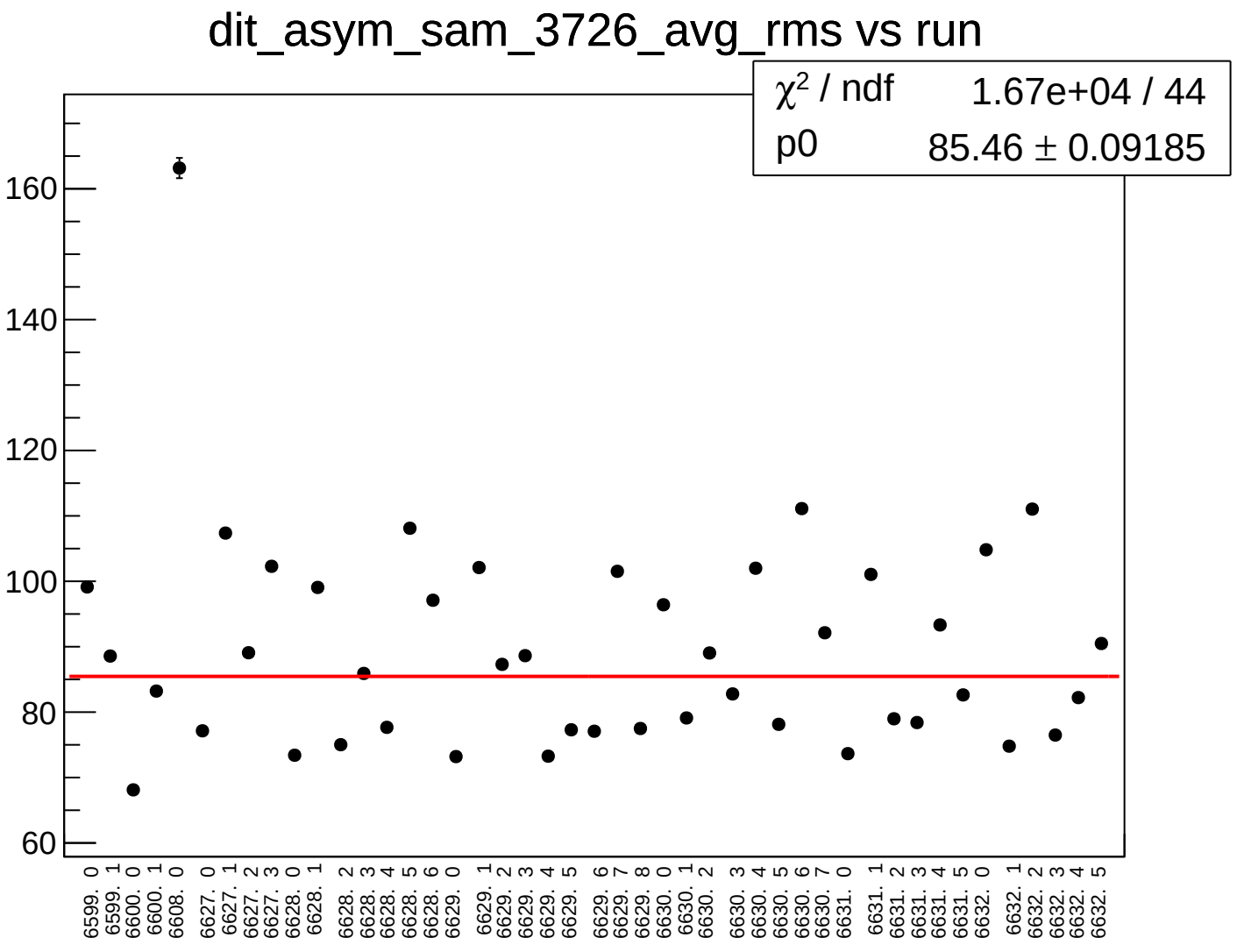

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 34.28 / 44
p0 1588 ± 850.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 3842
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

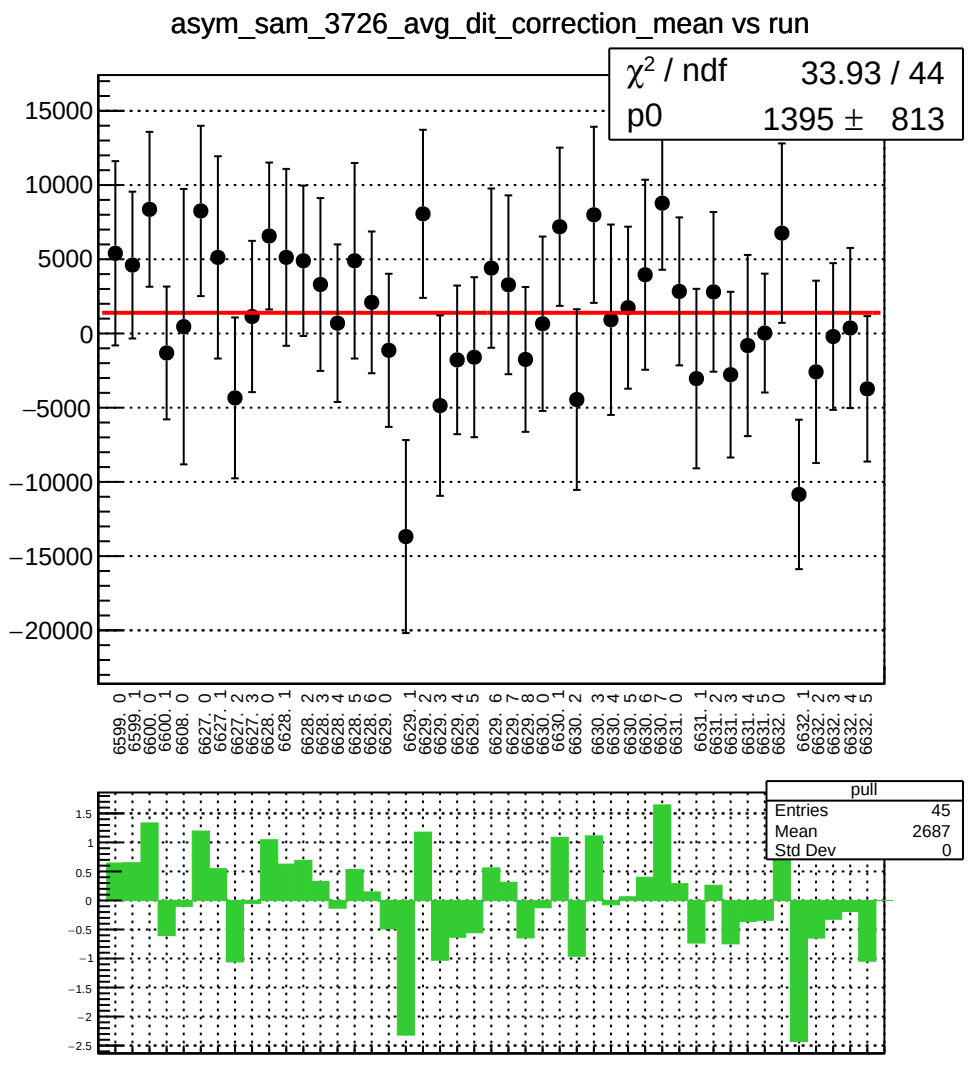

pull1D
Entries 45
Mean −0.0008521
Std Dev 0.8728
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

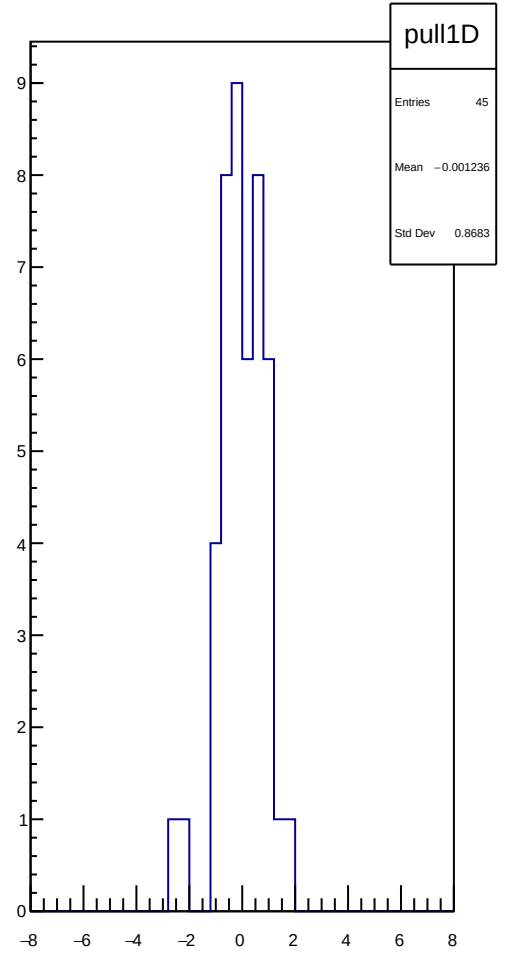

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 9107 / 44
p0 562 ± 0.6013
800
750
700
650
600
550
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

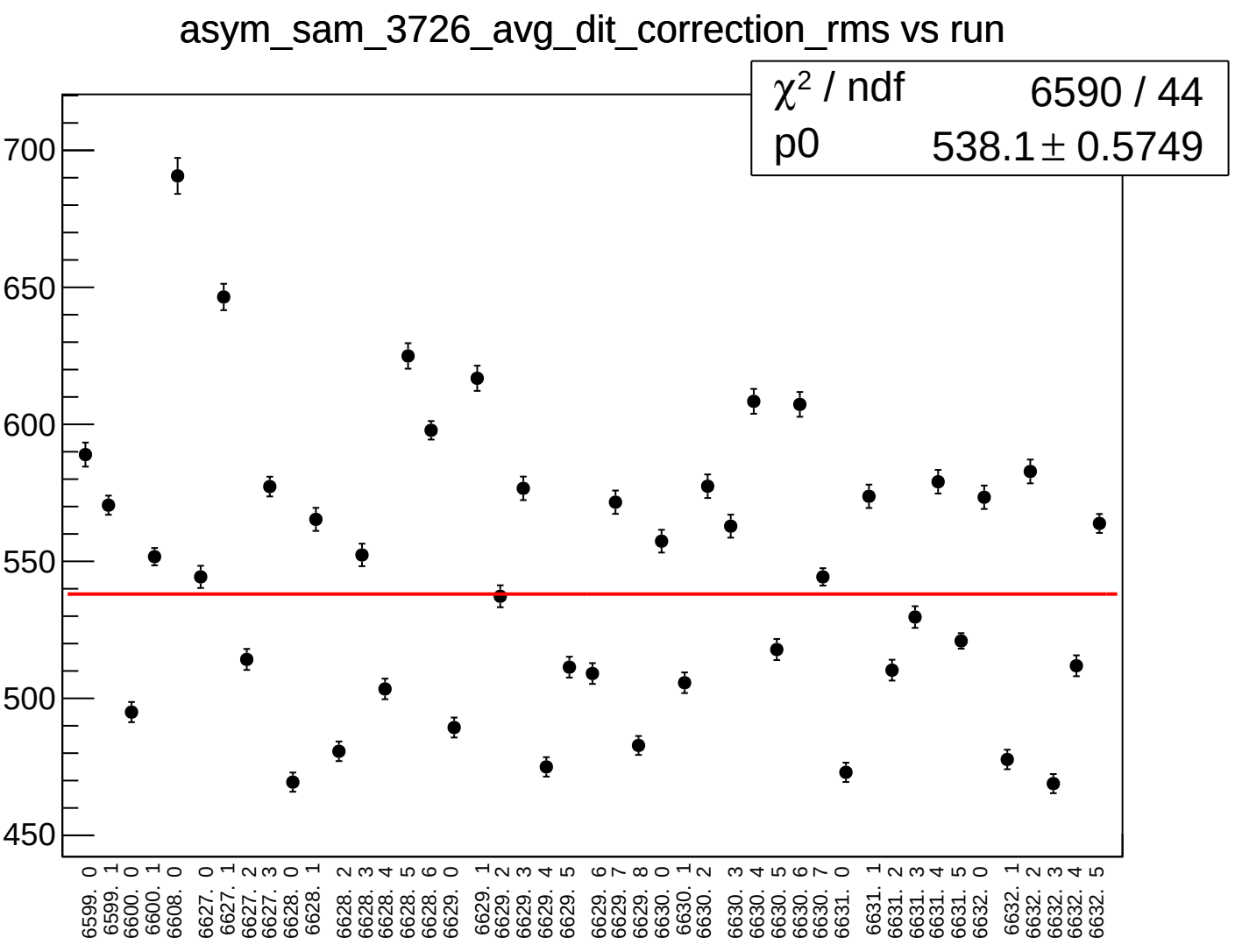

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 47.08 / 44
p0 33.07 ± 129.9
3000
2000
1000
0
−1000
−2000
−3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 143.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

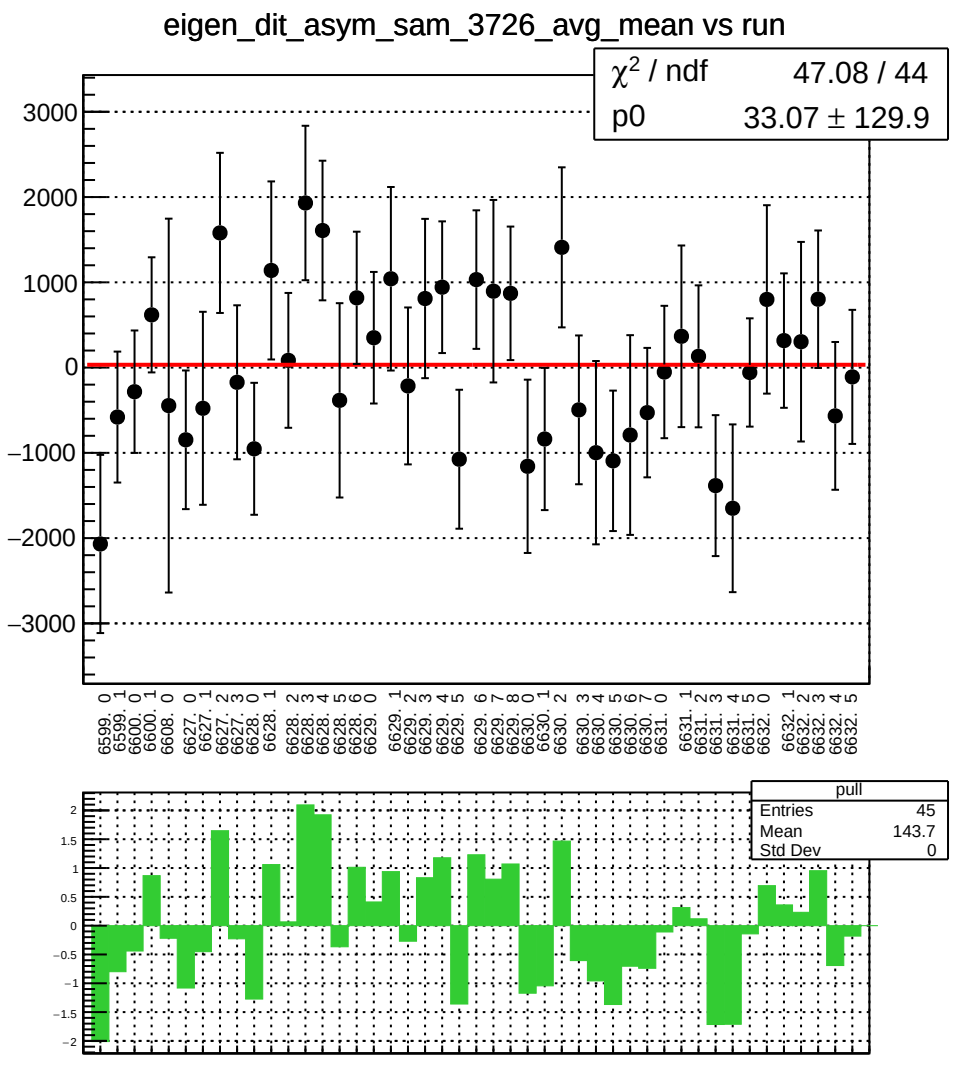

pull1D
Entries 45
Mean −0.008168
Std Dev 1.023
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

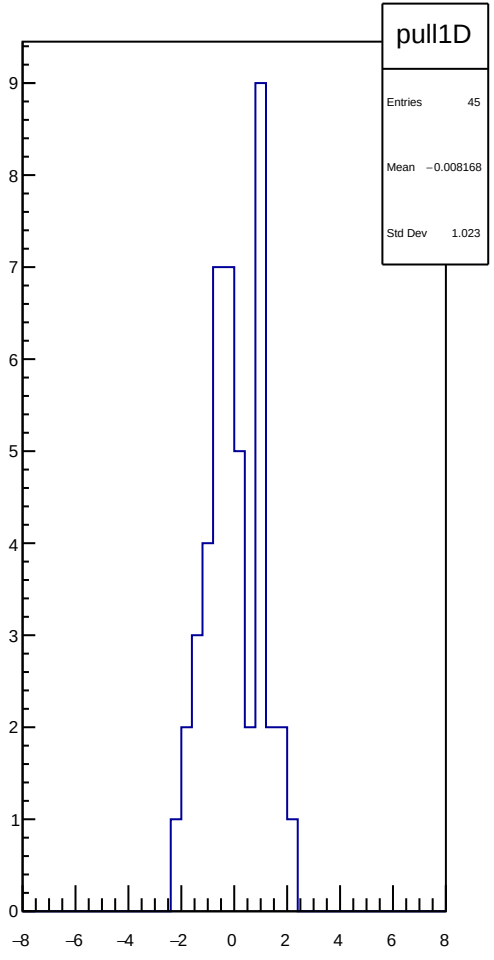

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 1.67e+04 / 44
p0 85.46 ± 0.09185
160
140
120
100
80
60
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

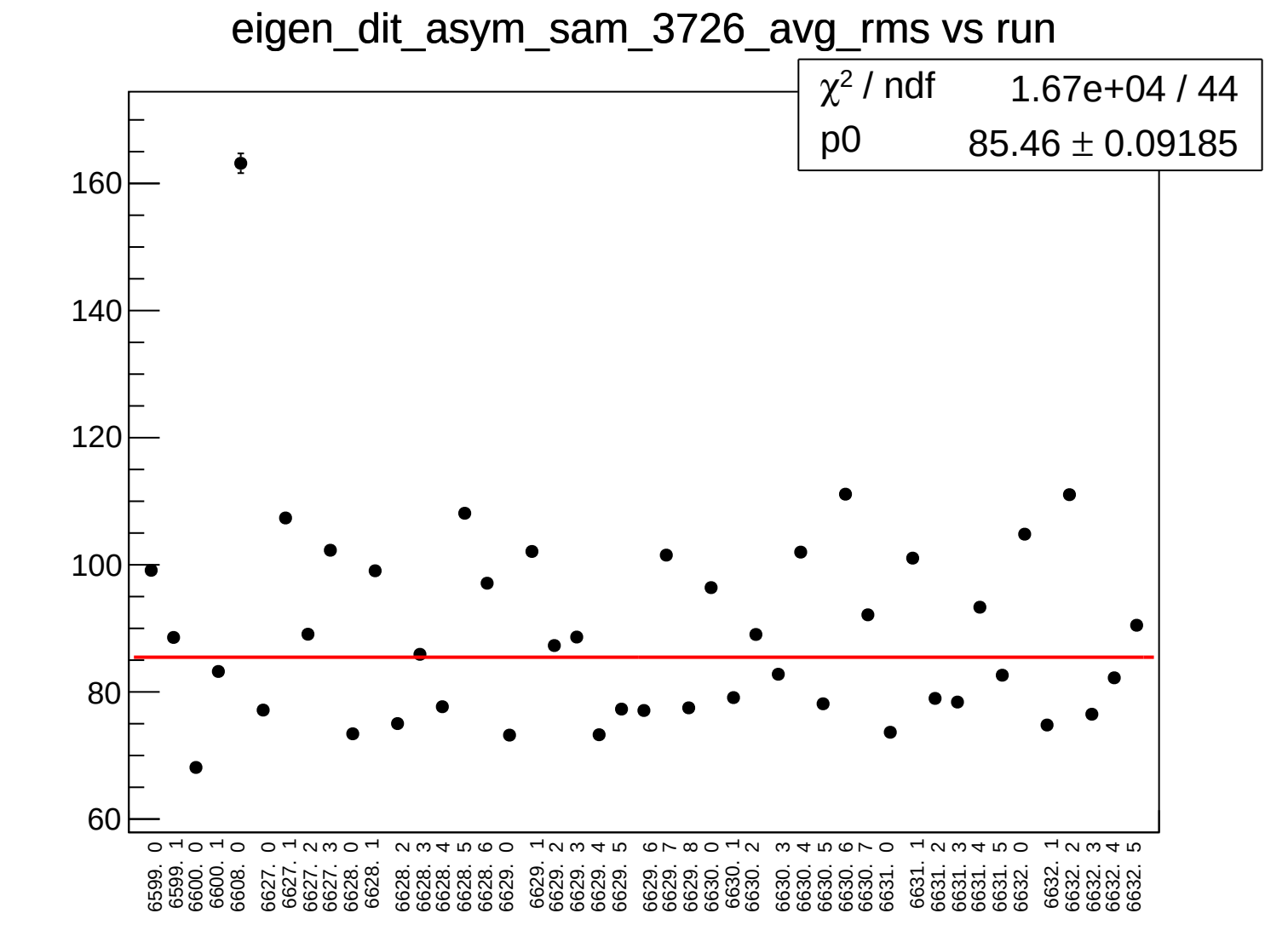

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 33.93 / 44
p0 1395 ± 813
15000
10000
5000
0
−5000
−10000
−15000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 2687
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean −0.001236
Std Dev 0.8683
9
8
7
6
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 6590 / 44
p0 538.1 ± 0.5749
700
650
600
550
500
450
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 47.08 / 44
p0 33.07 ± 129.9
3000
2000
1000
0
−1000
−2000
−3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 143.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.008168
Std Dev 1.023
9
8
7
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 1.67e+04 / 44
p0 85.46 ± 0.09185
160
140
120
100
80
60
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
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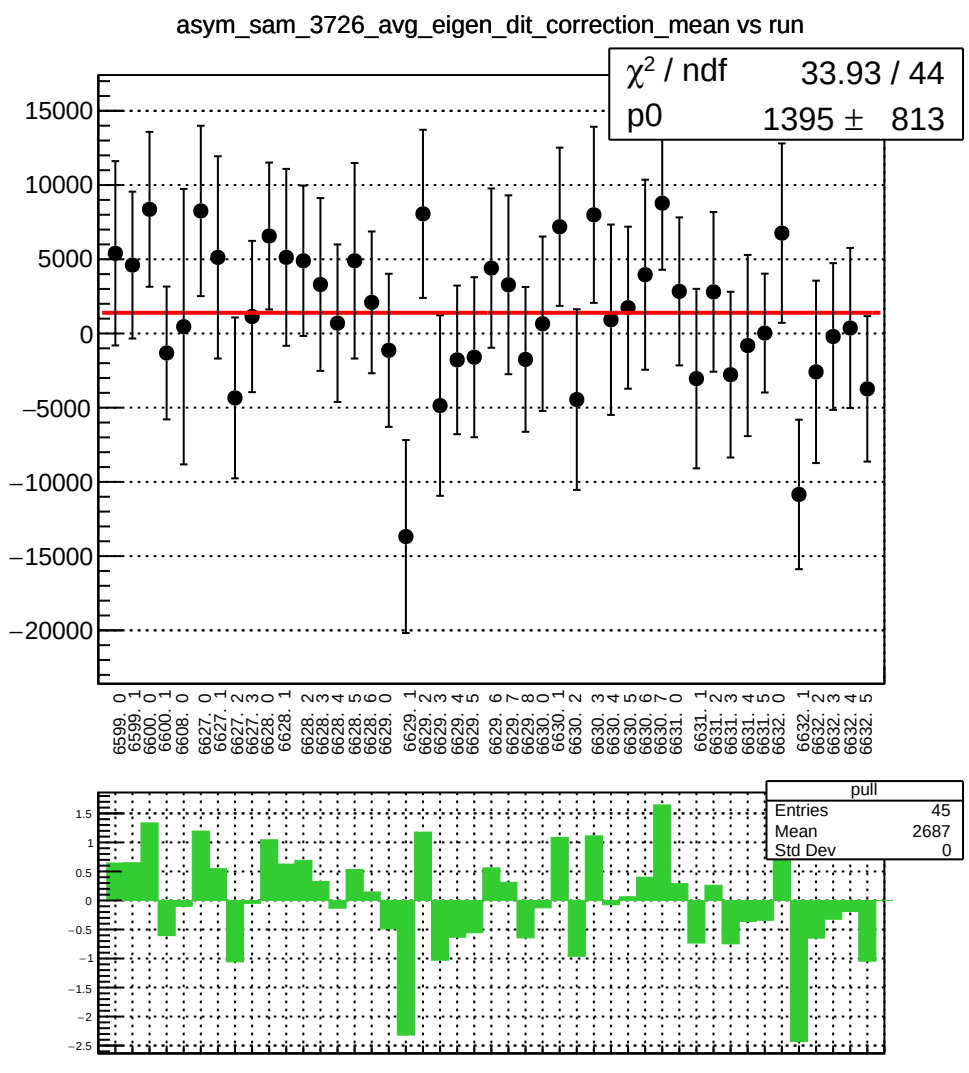
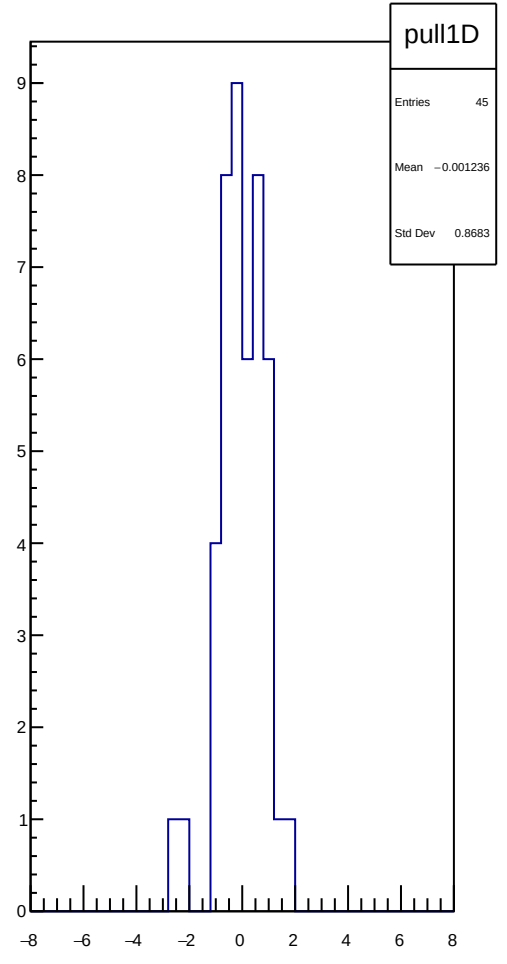
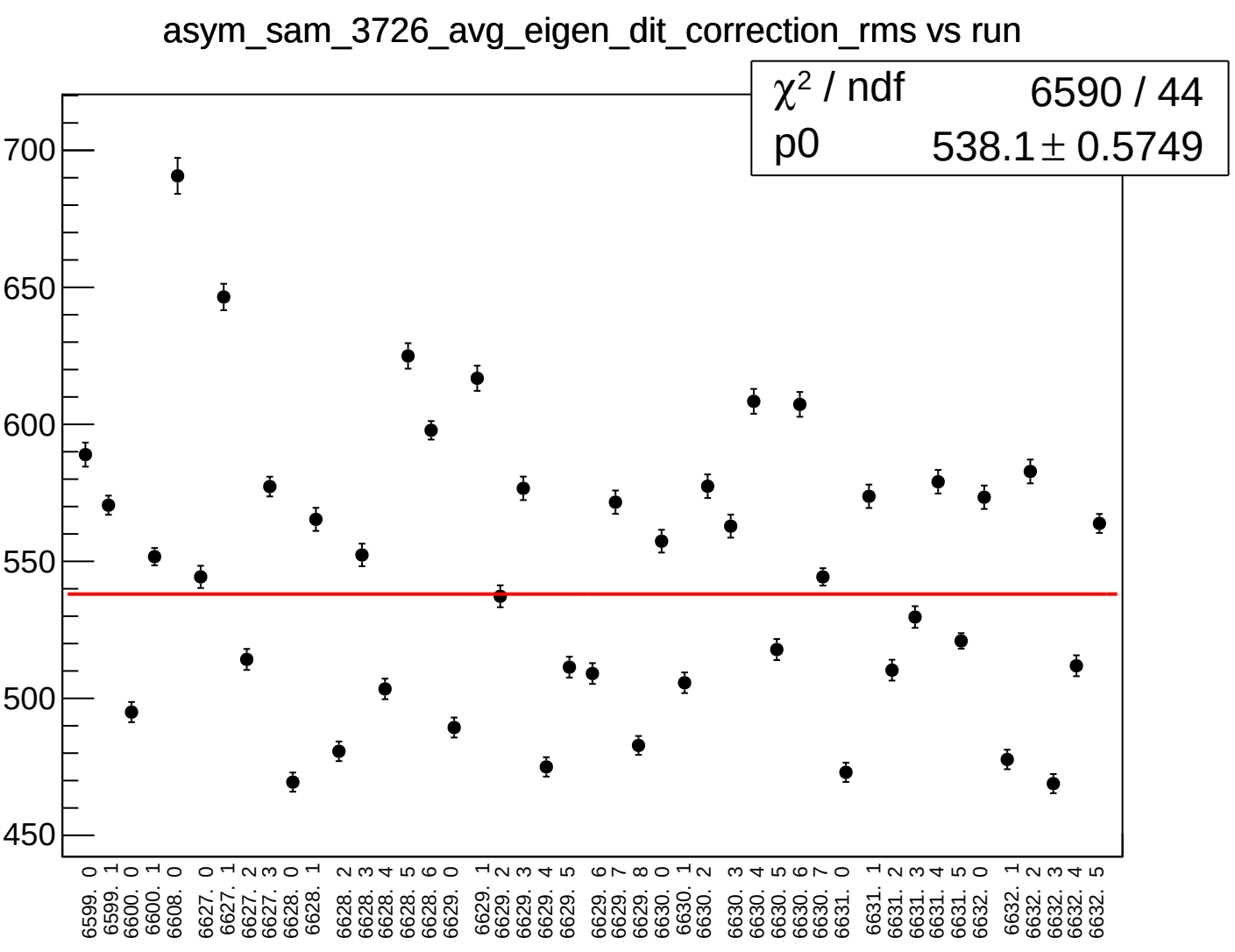
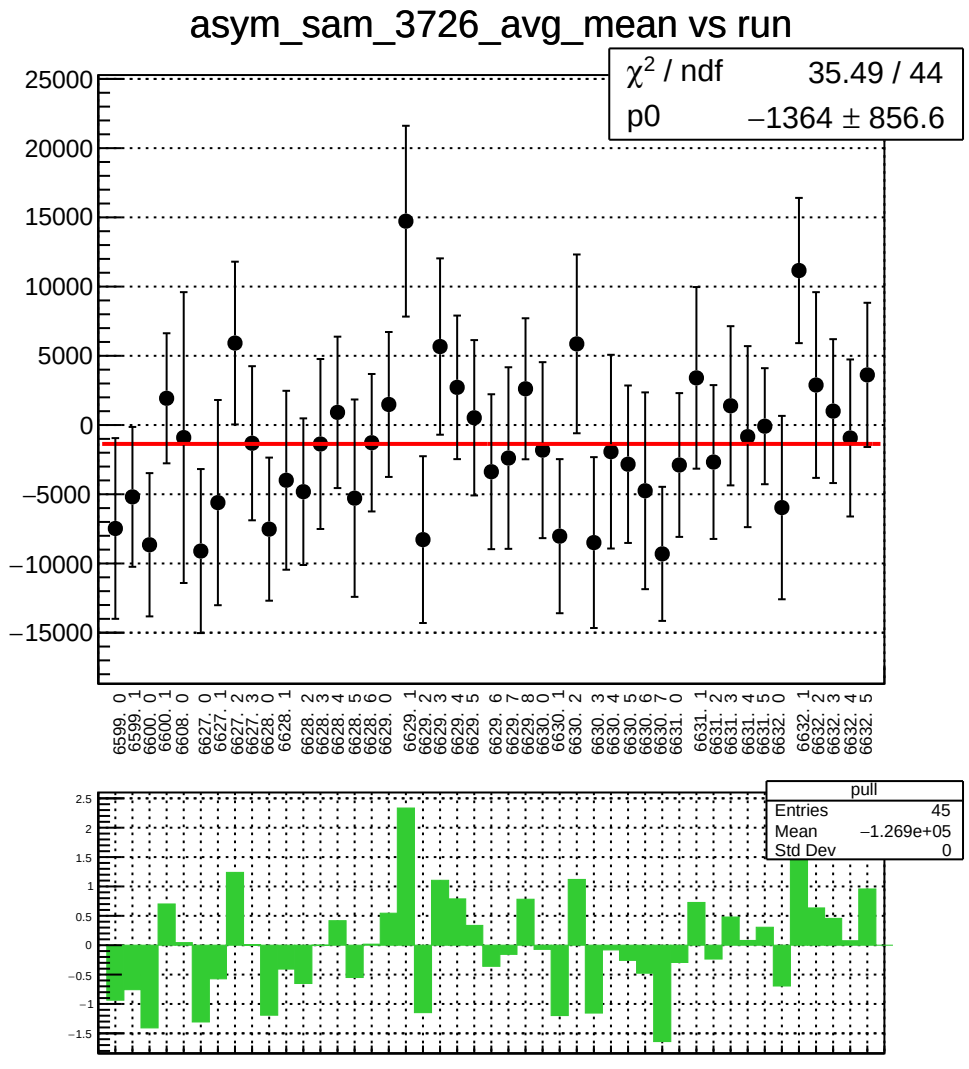
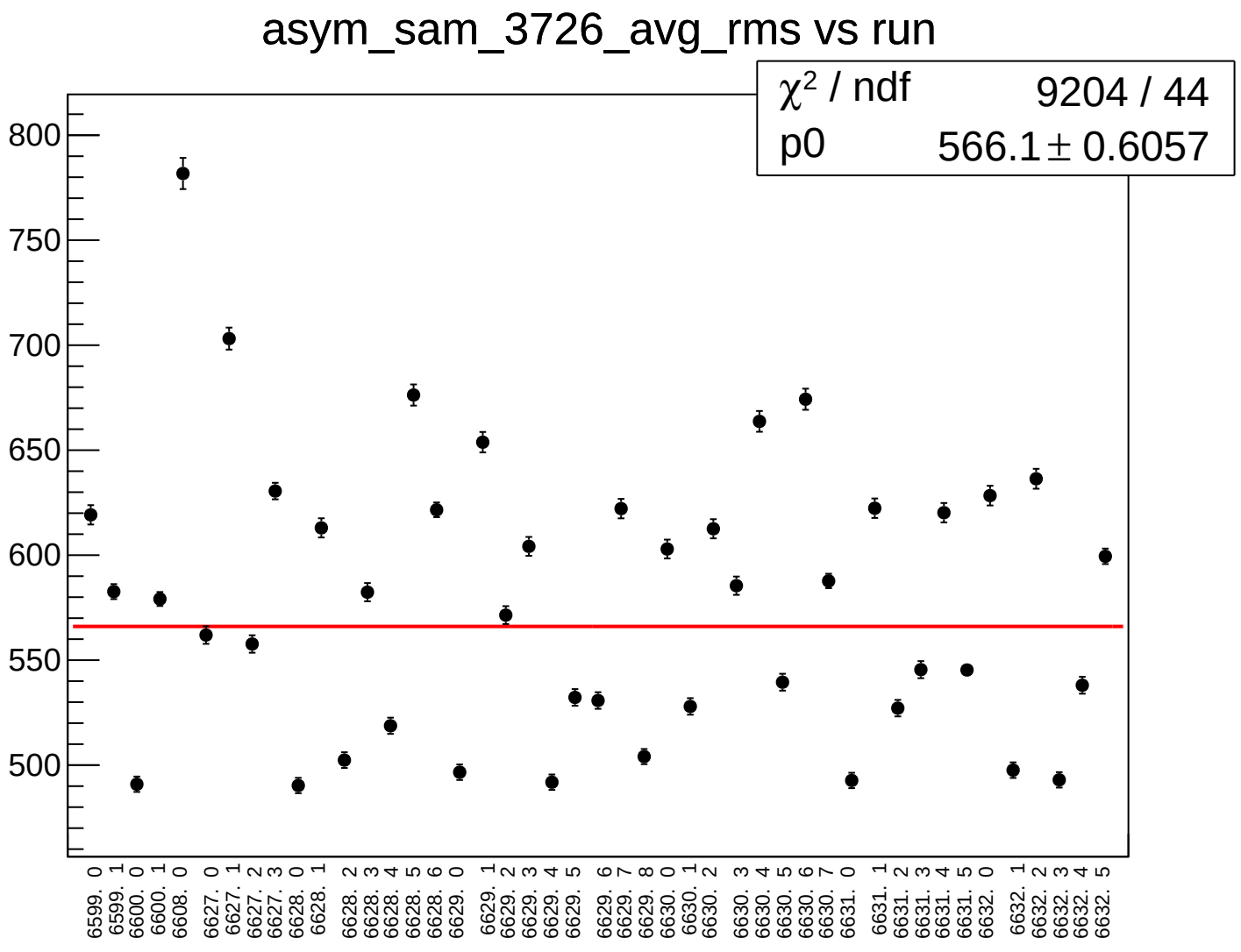
6632. 4
6632. 5


asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 33.93 / 44
p0 1395 ± 813
15000
10000
5000
0
−5000
−10000
−15000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 2687
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean −0.001236
Std Dev 0.8683
9
8
7
6
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 6590 / 44
p0 538.1 ± 0.5749
700
650
600
550
500
450
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_3726_avg_mean vs run
χ² / ndf 35.49 / 44
p0 −1364 ± 856.6
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −1.269e+05
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −2.41e−05
Std Dev 0.8881
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_3726_avg_rms vs run
χ² / ndf 9204 / 44
p0 566.1 ± 0.6057
800
750
700
650
600
550
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
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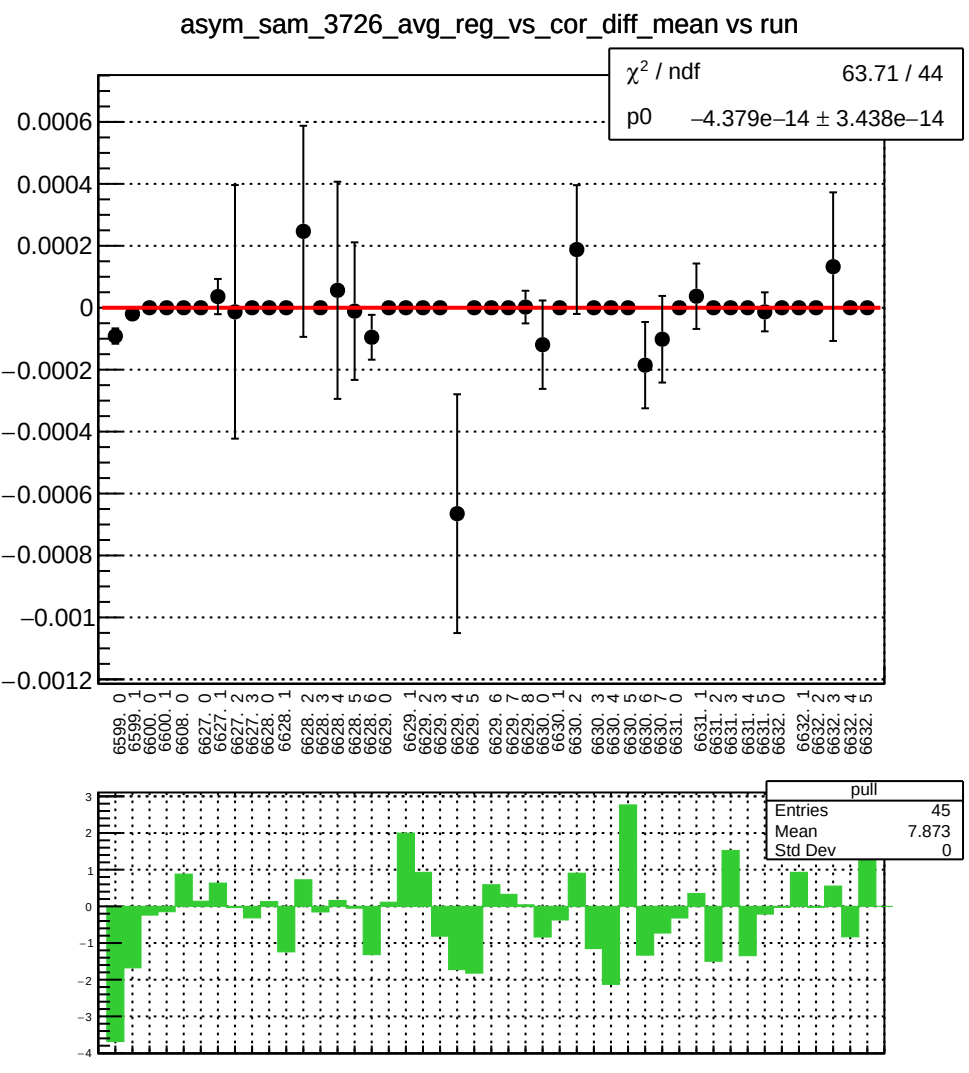
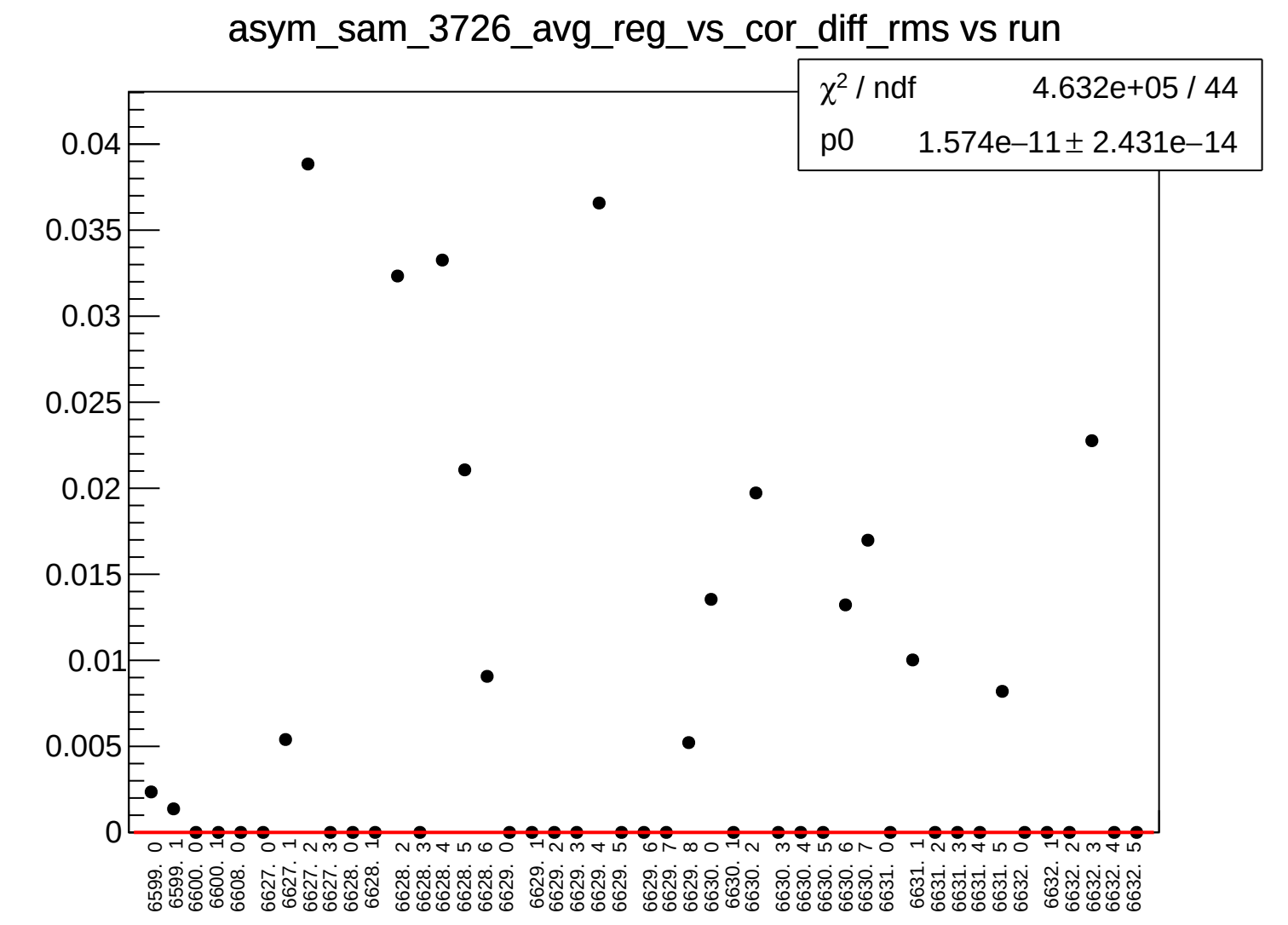
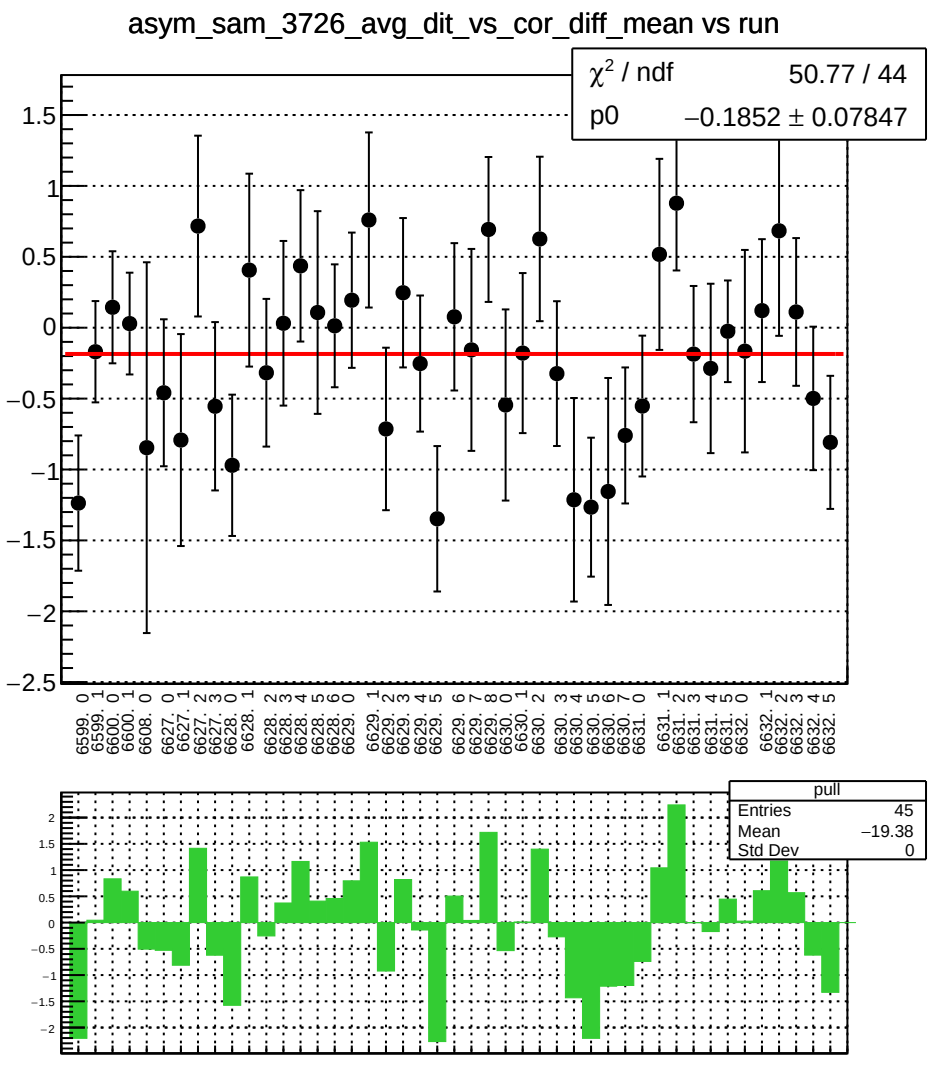
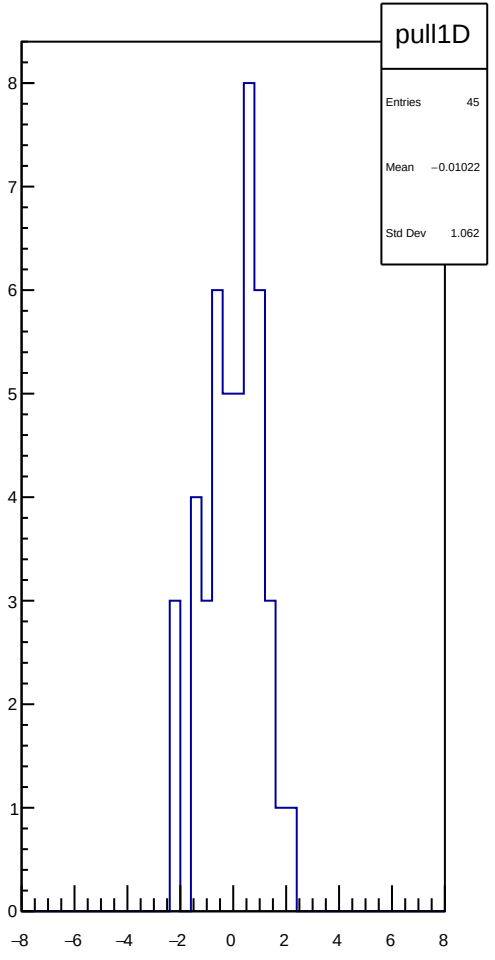
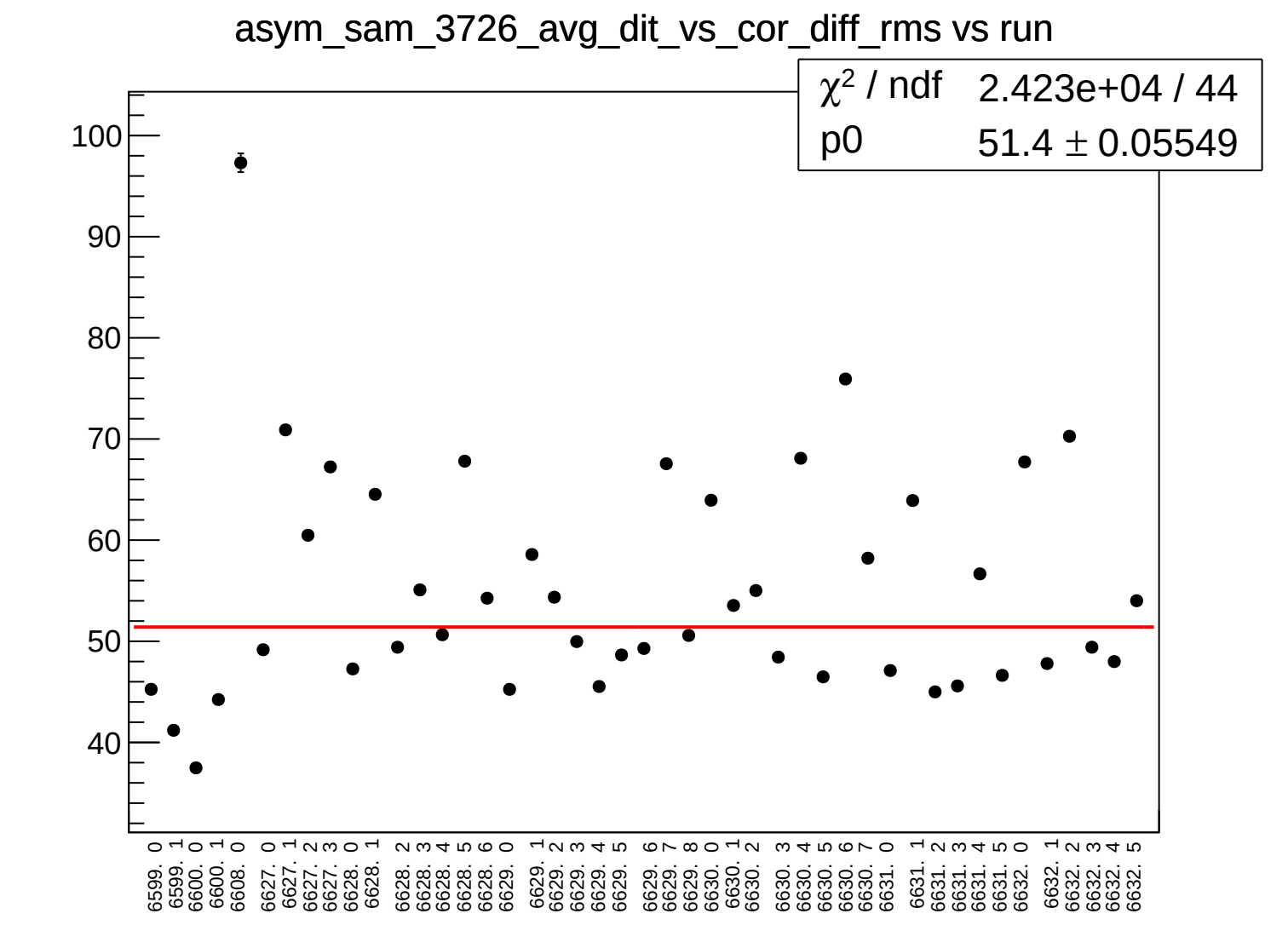
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

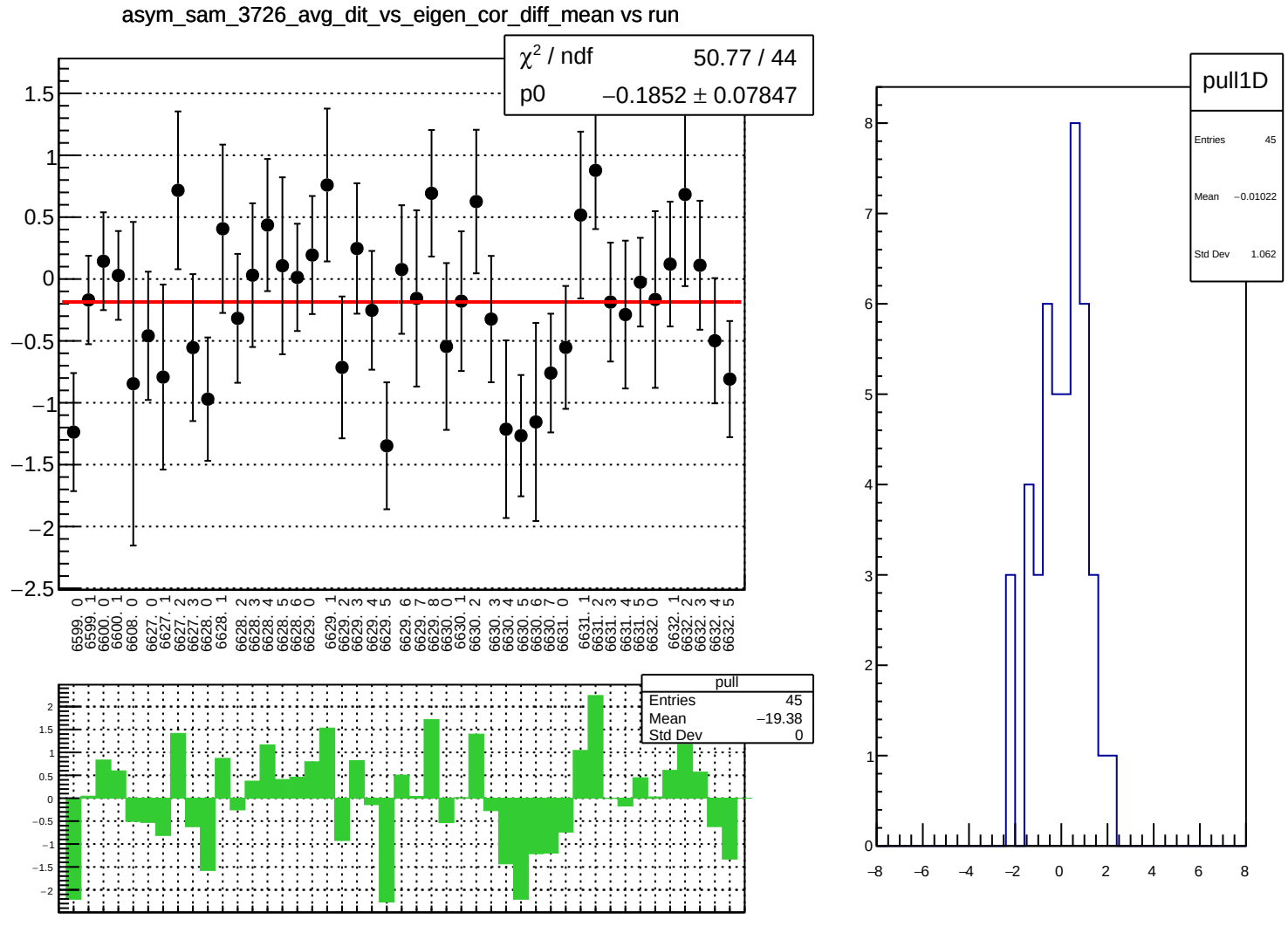

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 63.71 / 44
p0 −4.379e−14 ± 3.438e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 7.873
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 45
Mean −0.1857
Std Dev 1.175
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

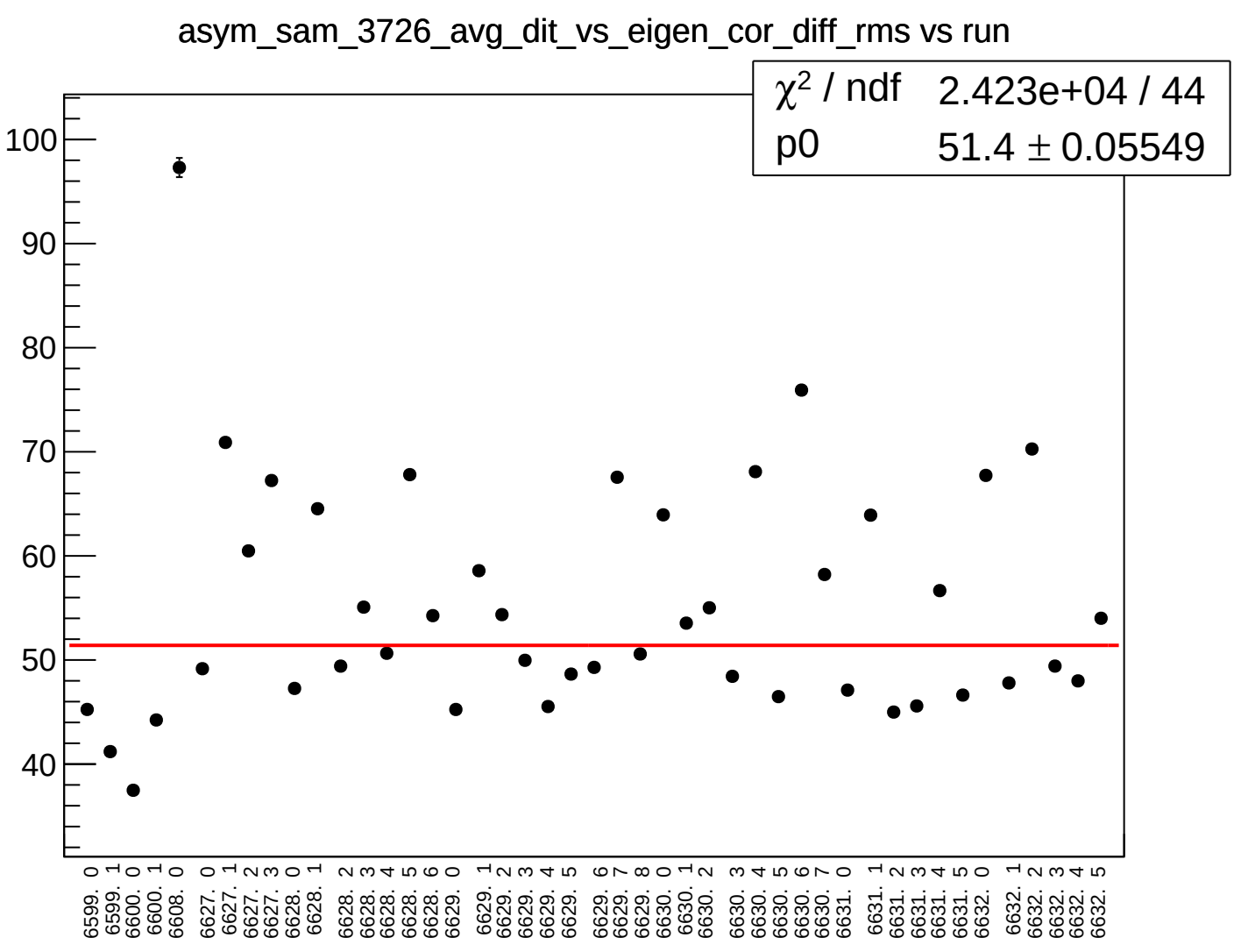

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.632e+05 / 44
p0 1.574e−11 ± 2.431e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

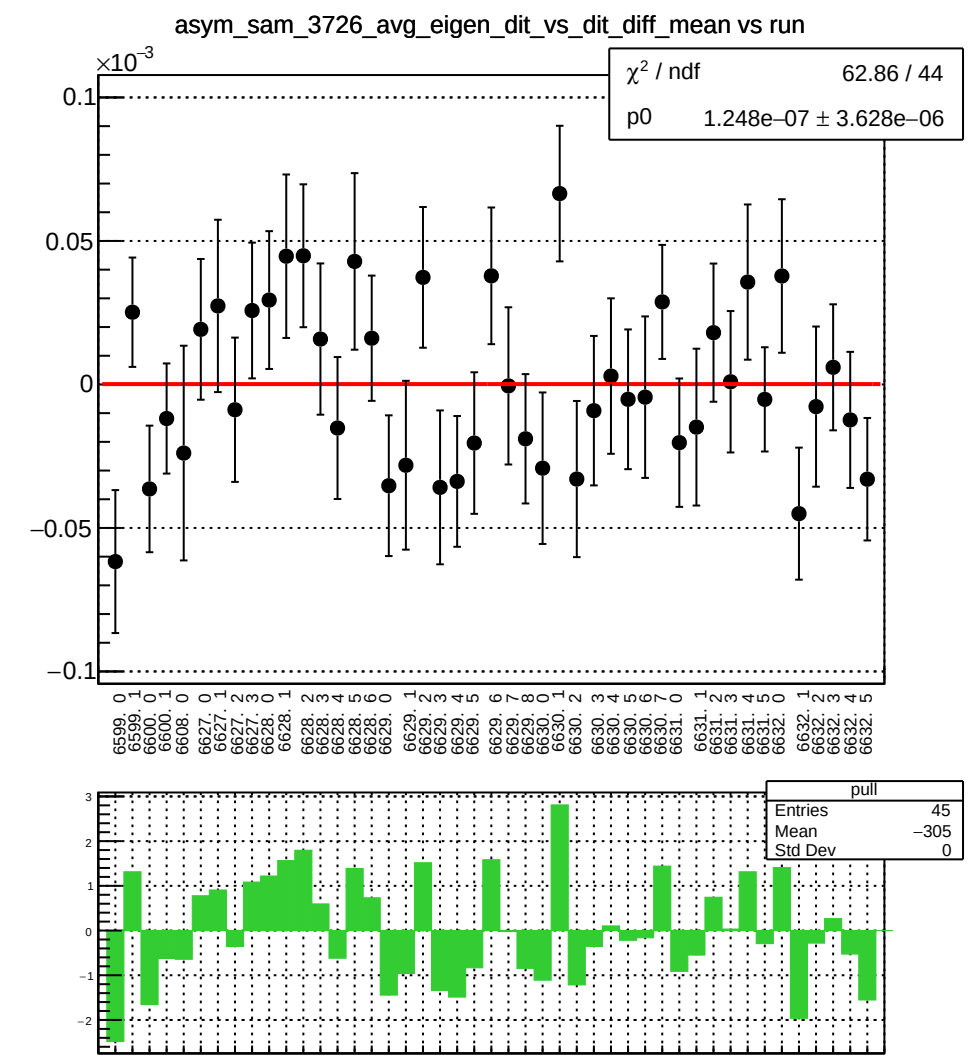

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 50.77 / 44
p0 −0.1852 ± 0.07847
pull
Entries 45
Mean −19.38
Std Dev 0

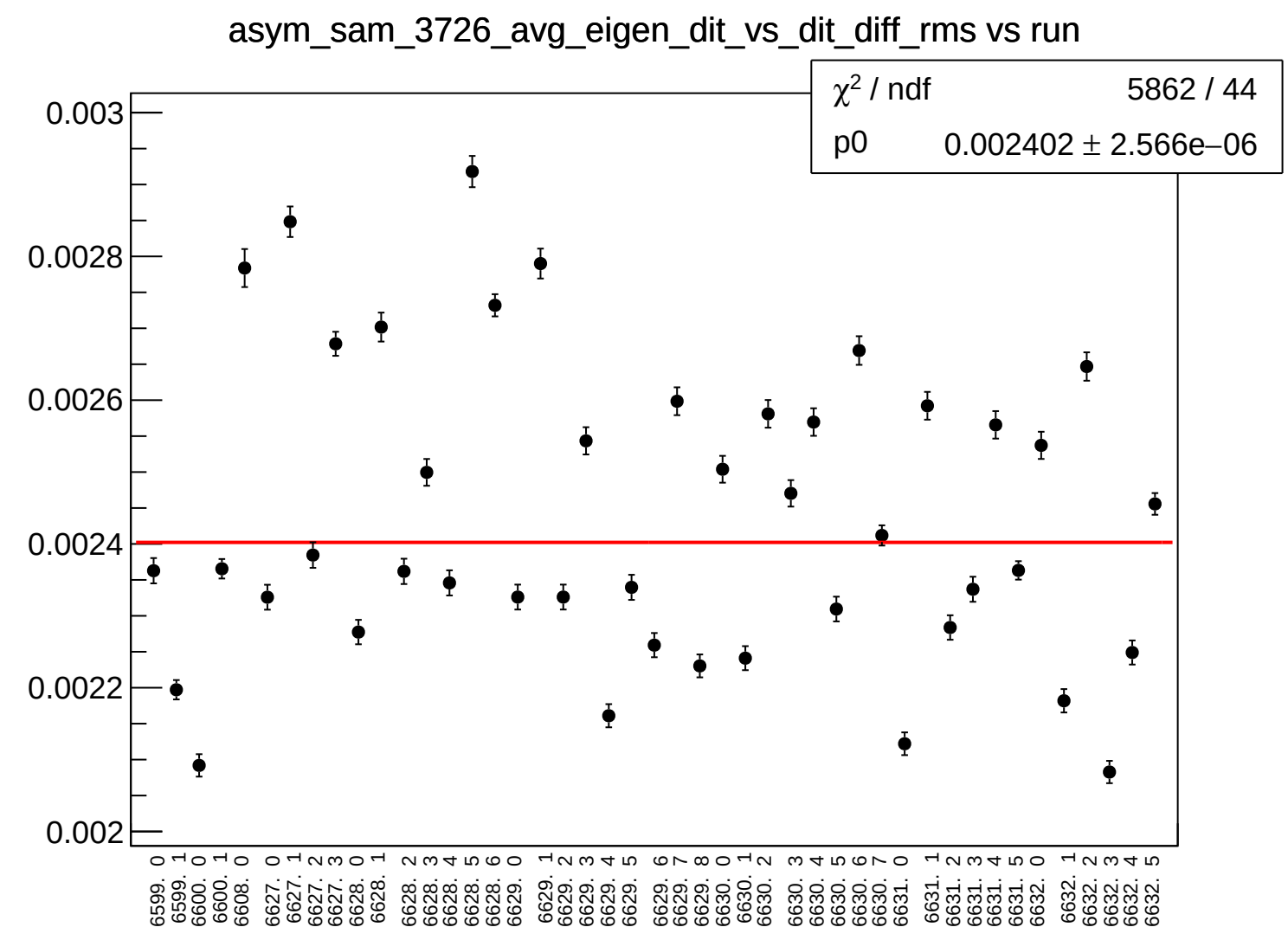

pull1D
Entries 45
Mean −0.01022
Std Dev 1.062

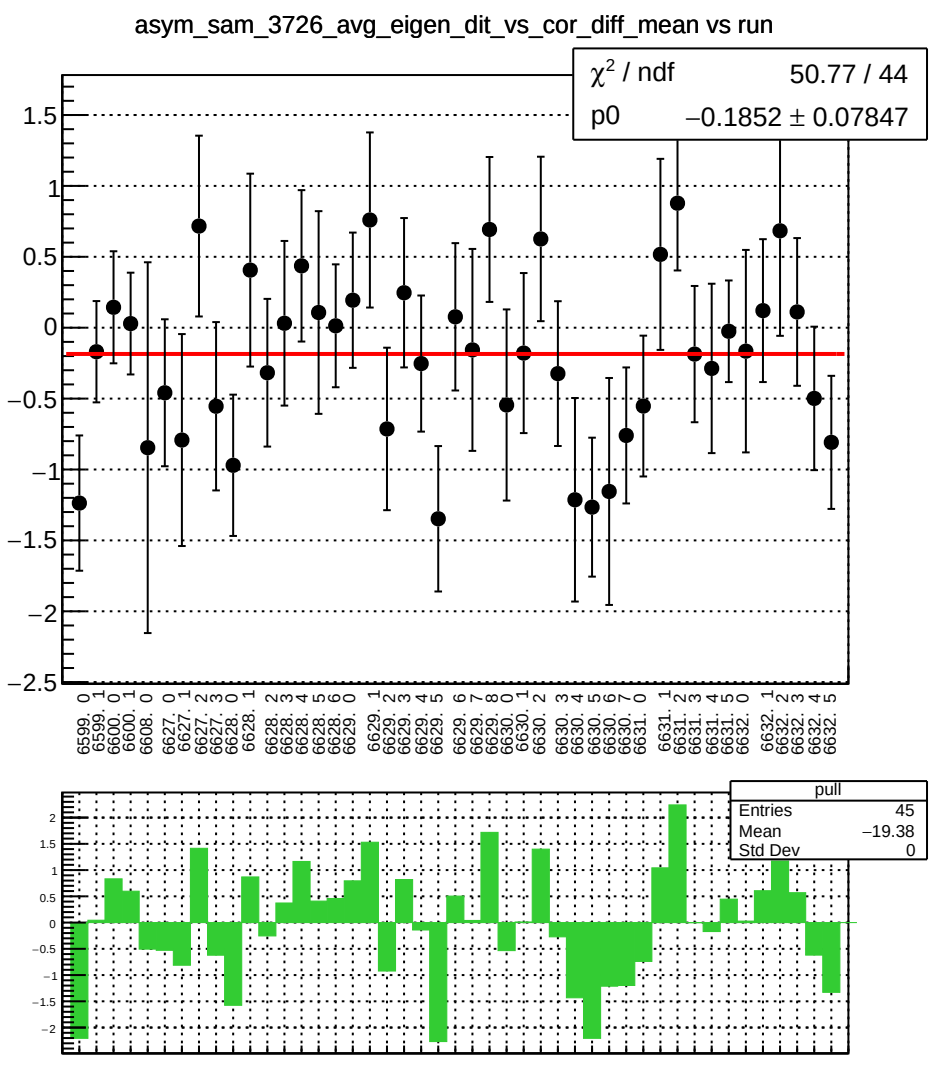

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.423e+04 / 44
p0 51.4 ± 0.05549
100
90
80
70
60
50
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

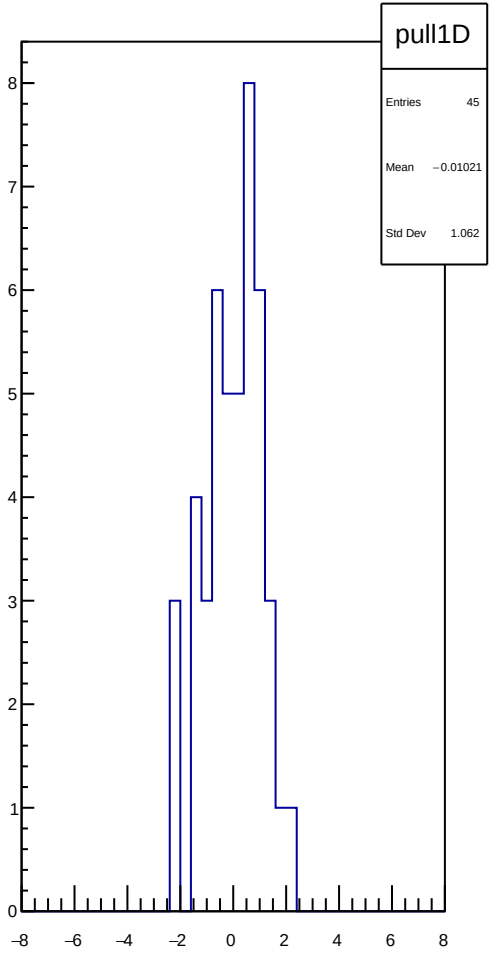

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.77 / 44
p0 −0.1852 ± 0.07847
pull
Entries 45
Mean −19.38
Std Dev 0
pull1D
Entries 45
Mean −0.01022
Std Dev 1.062

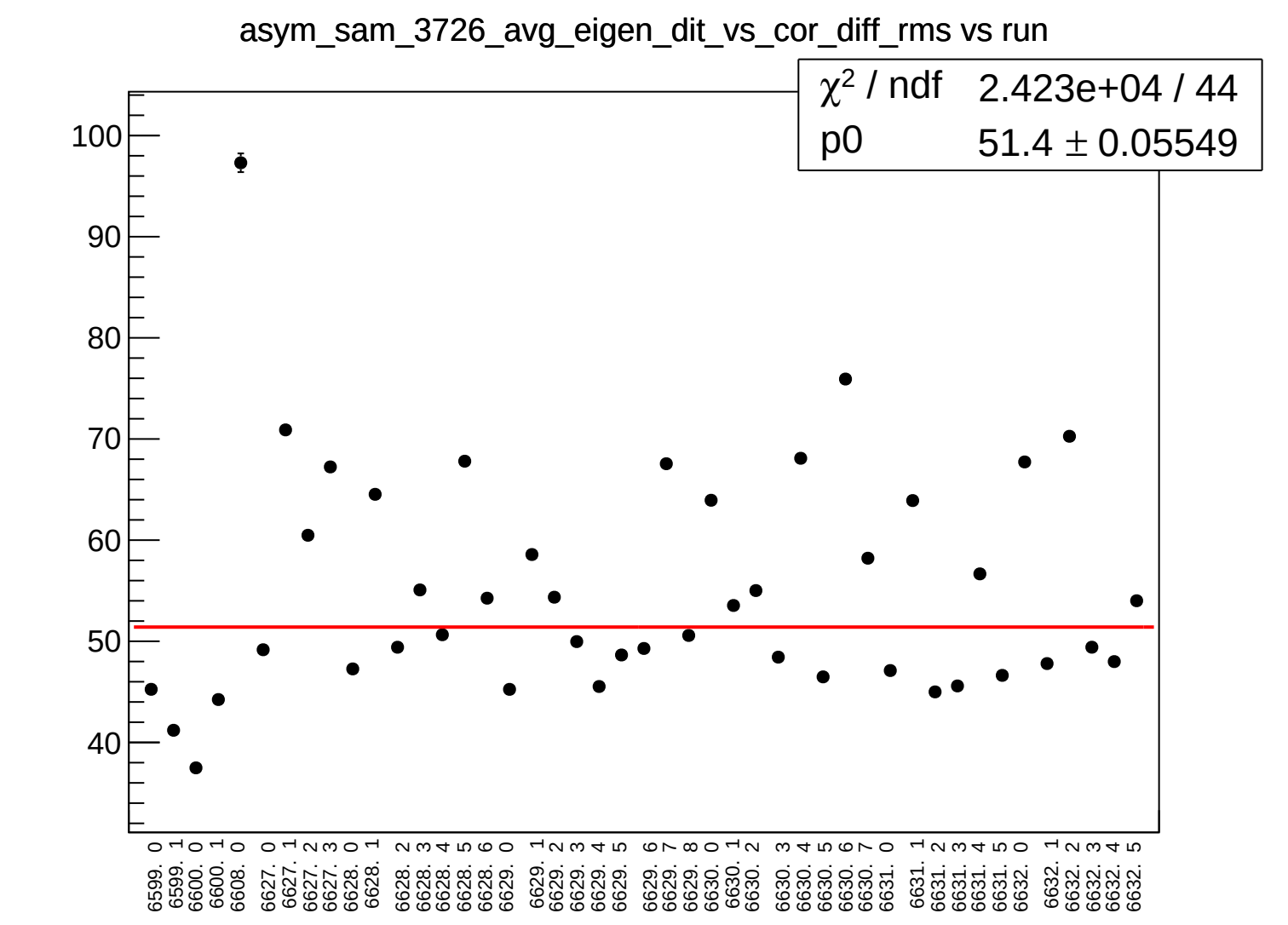

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.423e+04 / 44
p0 51.4 ± 0.05549
100
90
80
70
60
50
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

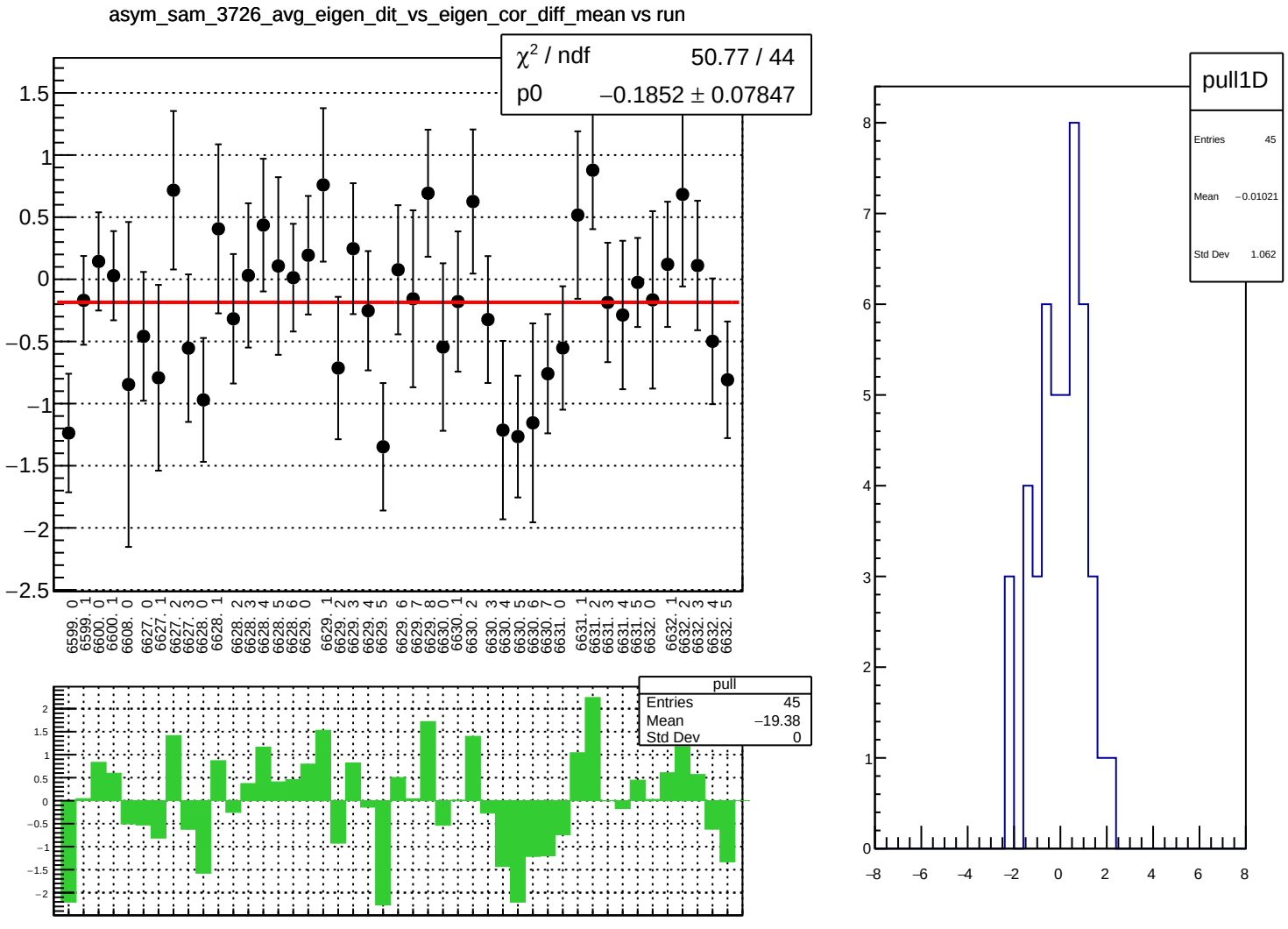

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 62.86 / 44
p0 1.248e−07 ± 3.628e−06
0.1
0.05
0
−0.05
−0.1
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −305
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.003252
Std Dev 1.182
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

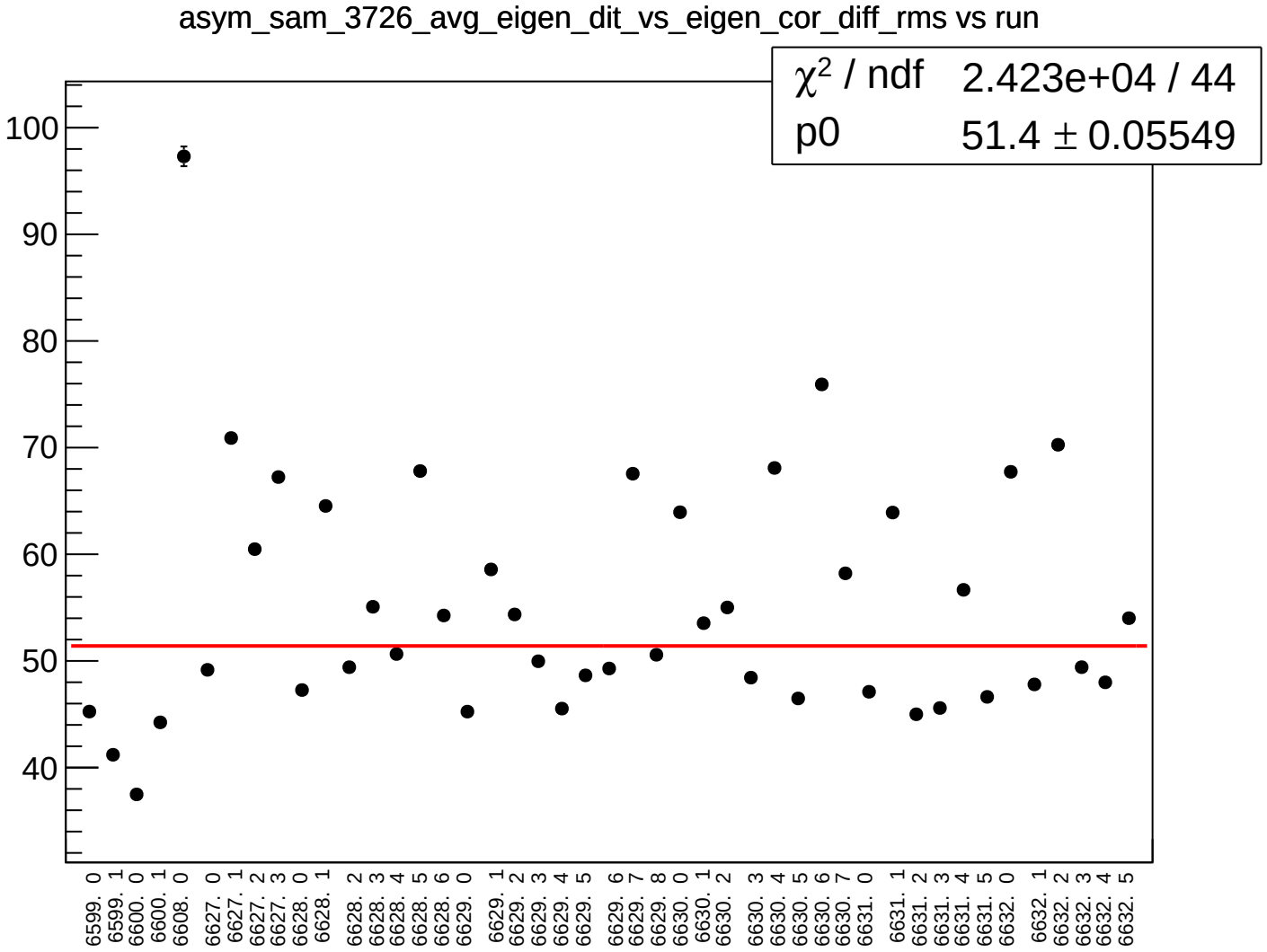

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5862 / 44
p0 0.002402 ± 2.566e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 50.77 / 44
p0 −0.1852 ± 0.07847
pull
Entries 45
Mean −19.38
Std Dev 0


pull1D
Entries 45
Mean −0.01021
Std Dev 1.062


asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.423e+04 / 44
p0 51.4 ± 0.05549
100
90
80
70
60
50
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.77 / 44
p0 −0.1852 ± 0.07847
pull
Entries 45
Mean −19.38
Std Dev 0
pull1D
Entries 45
Mean −0.01021
Std Dev 1.062


asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.423e+04 / 44
p0 51.4 ± 0.05549
100
90
80
70
60
50
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
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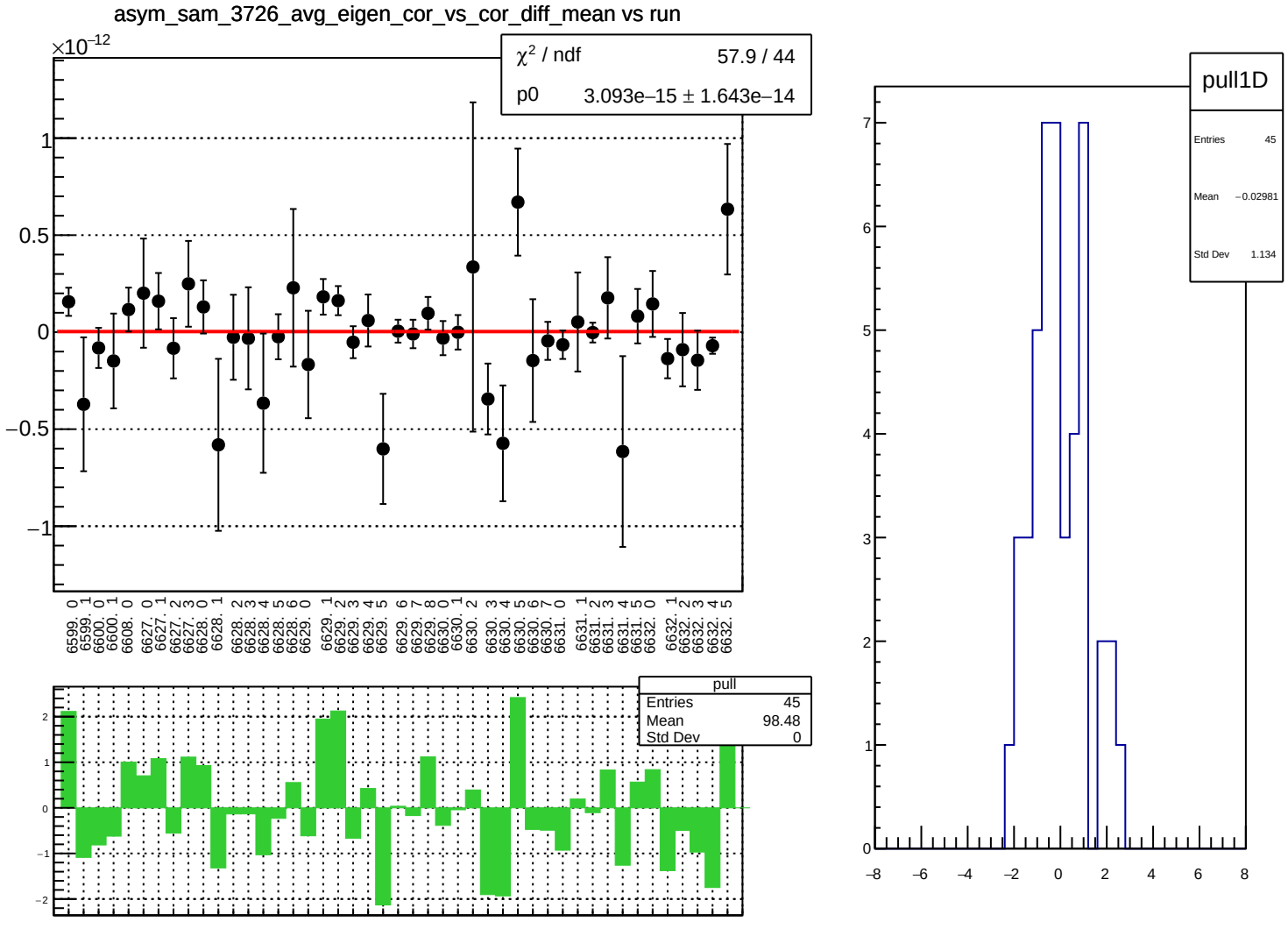
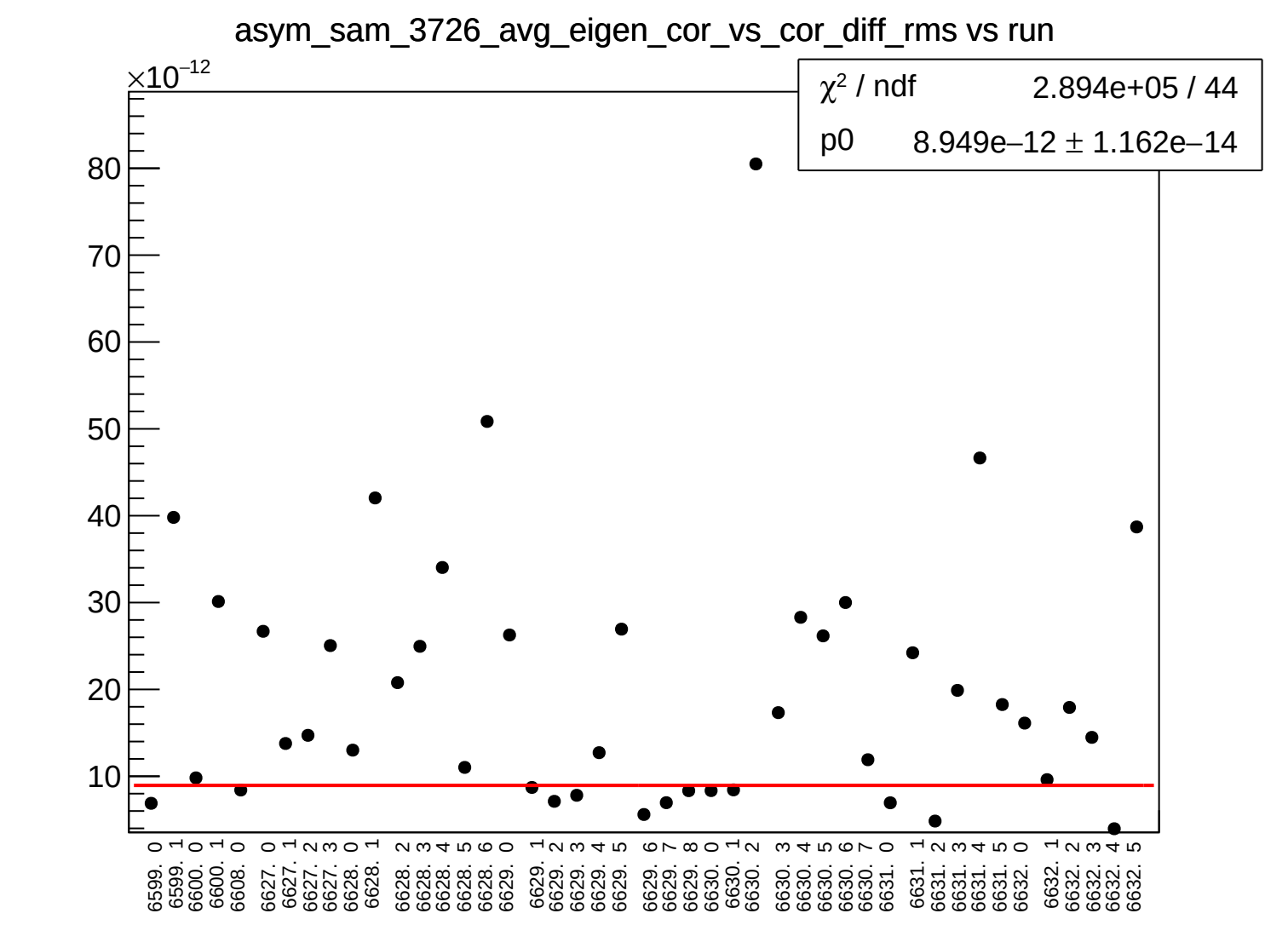
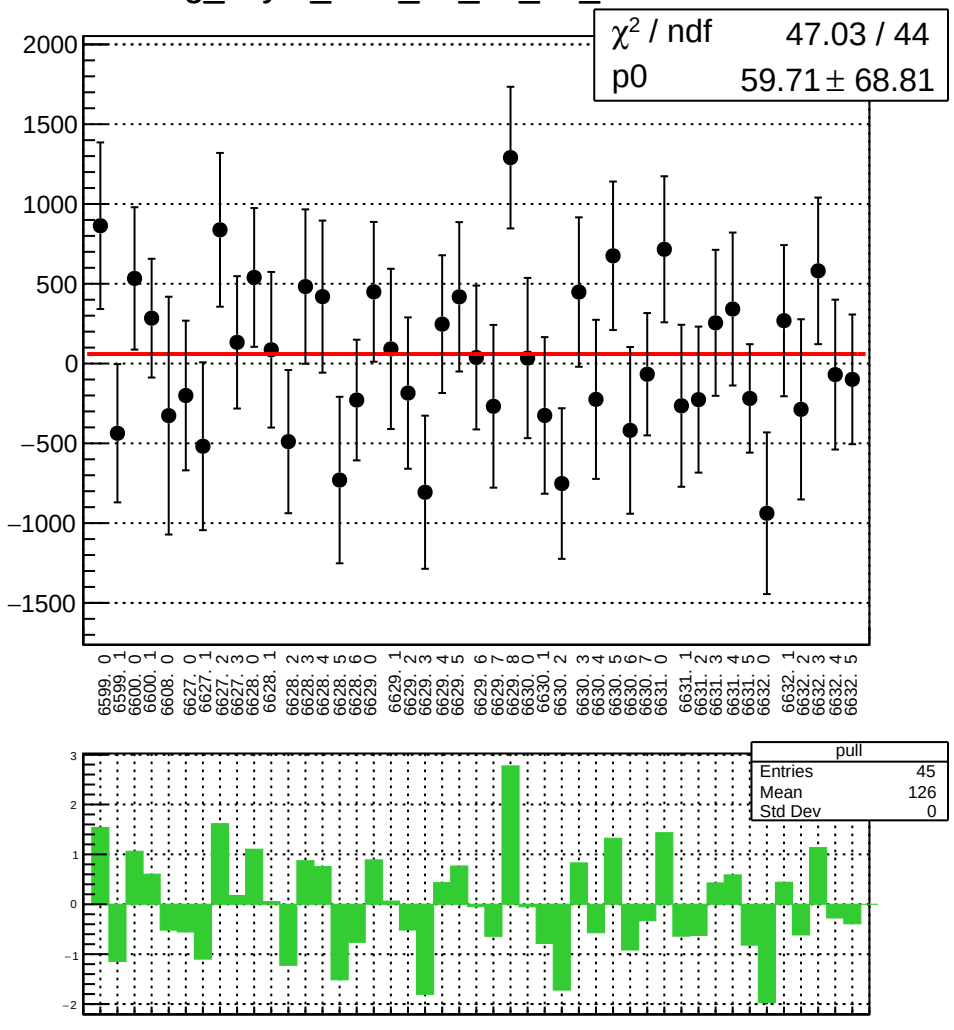
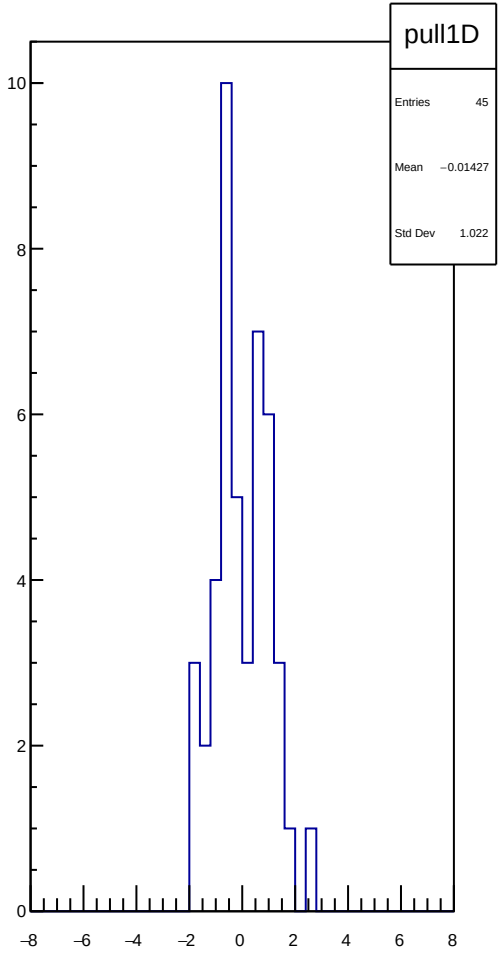
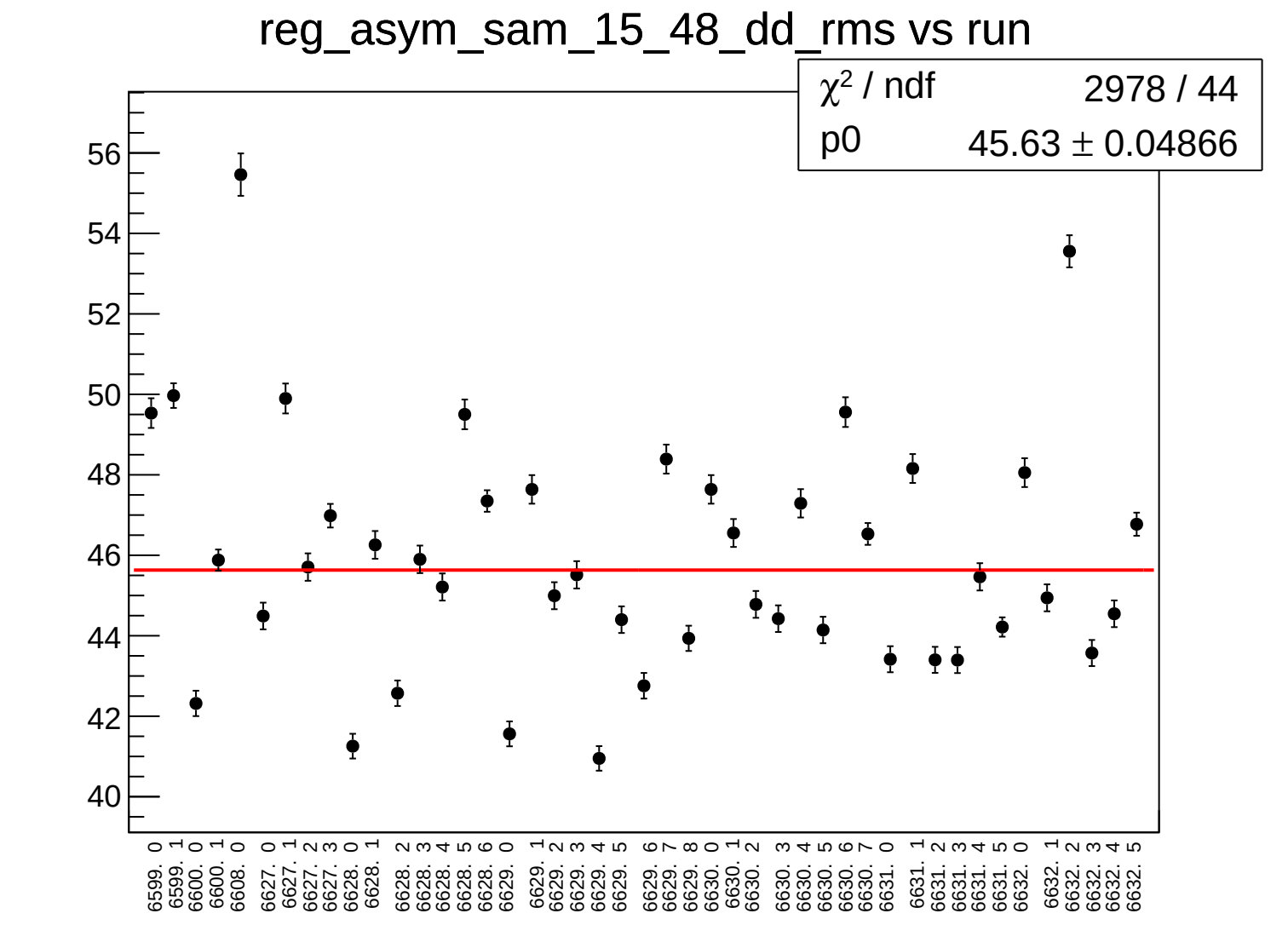
6632. 2
6632. 3
6632. 4
6632. 5

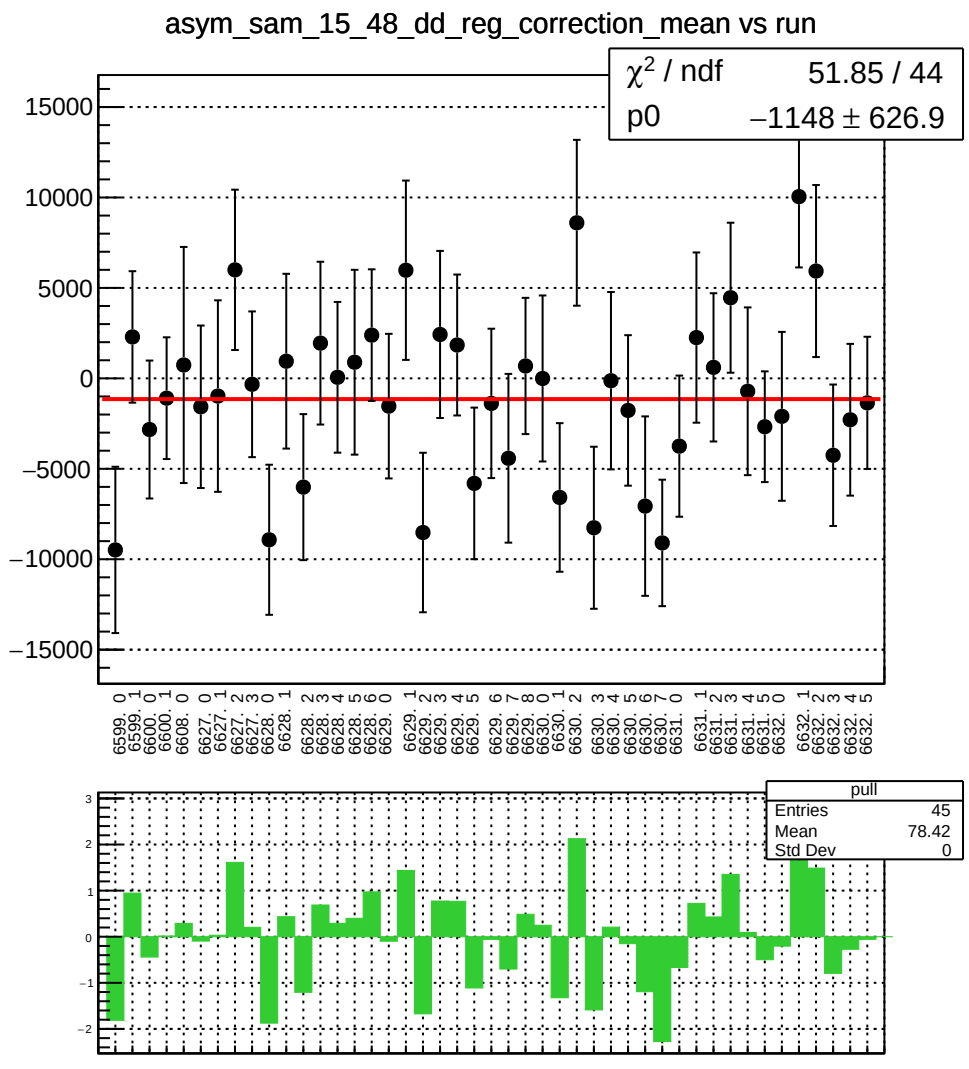

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 57.9 / 44
p0 3.093e−15 ± 1.643e−14
pull
Entries 45
Mean 98.48
Std Dev 0
pull1D
Entries 45
Mean −0.02981
Std Dev 1.134

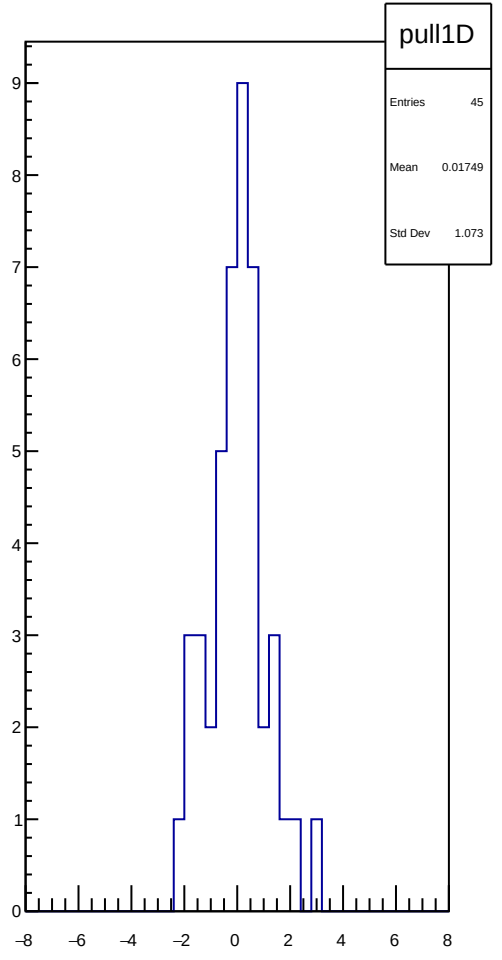

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.894e+05 / 44
p0 8.949e−12 ± 1.162e−14
80
70
60
50
40
30
20
10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

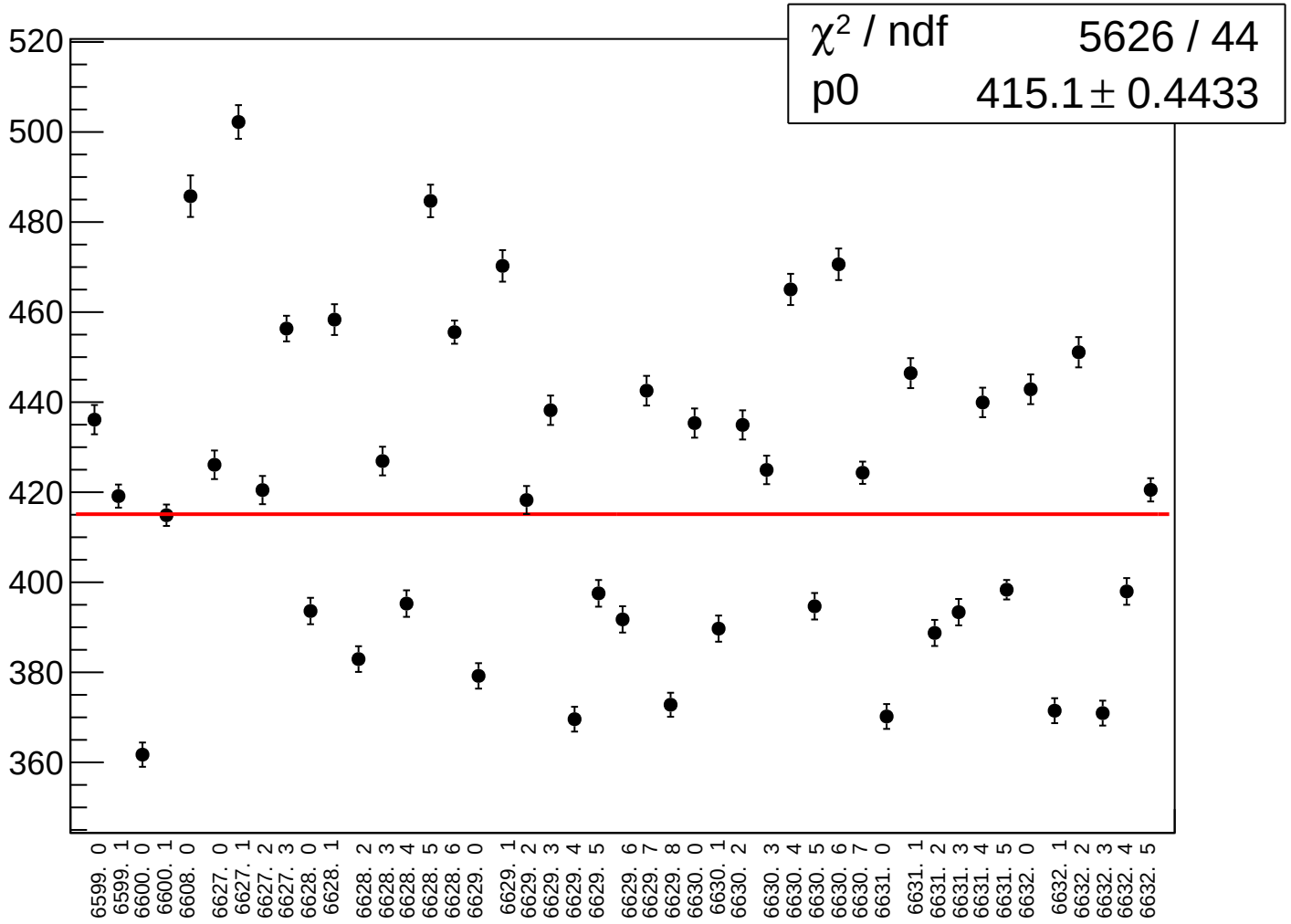

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 47.03 / 44
p0 59.71 ± 68.81
pull
Entries 45
Mean 126
Std Dev 0


pull1D
Entries 45
Mean −0.01427
Std Dev 1.022


reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 2978 / 44
p0 45.63 ± 0.04866
56
54
52
50
48
46
44
42
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 51.85 / 44
p0 −1148 ± 626.9
15000
10000
5000
0
−5000
−10000
−15000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 78.42
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.01749
Std Dev 1.073
9
8
7
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 5626 / 44
p0 415.1 ± 0.4433
520
500
480
460
440
420
400
380
360
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
6631. 5
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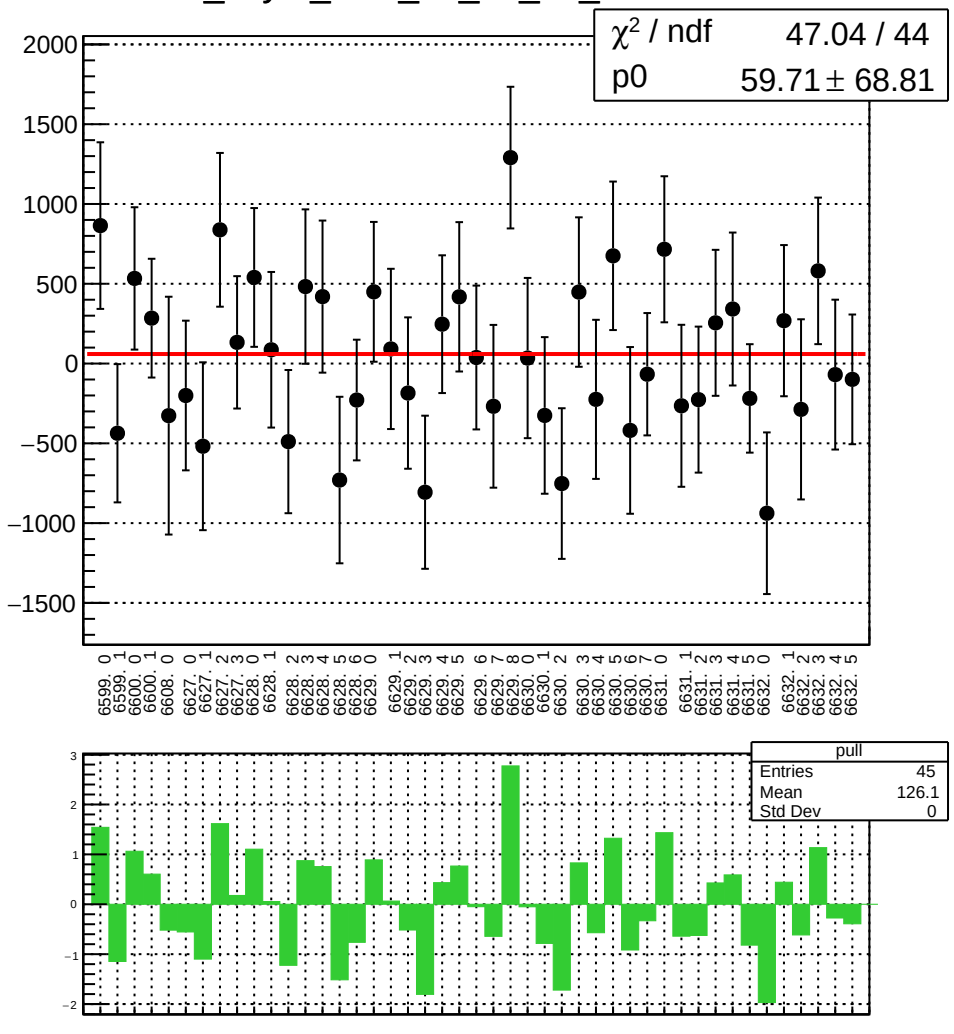
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 47.04 / 44
p0 59.71 ± 68.81
2000
1500
1000
500
0
−500
−1000
−1500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
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6628. 6
6629. 0
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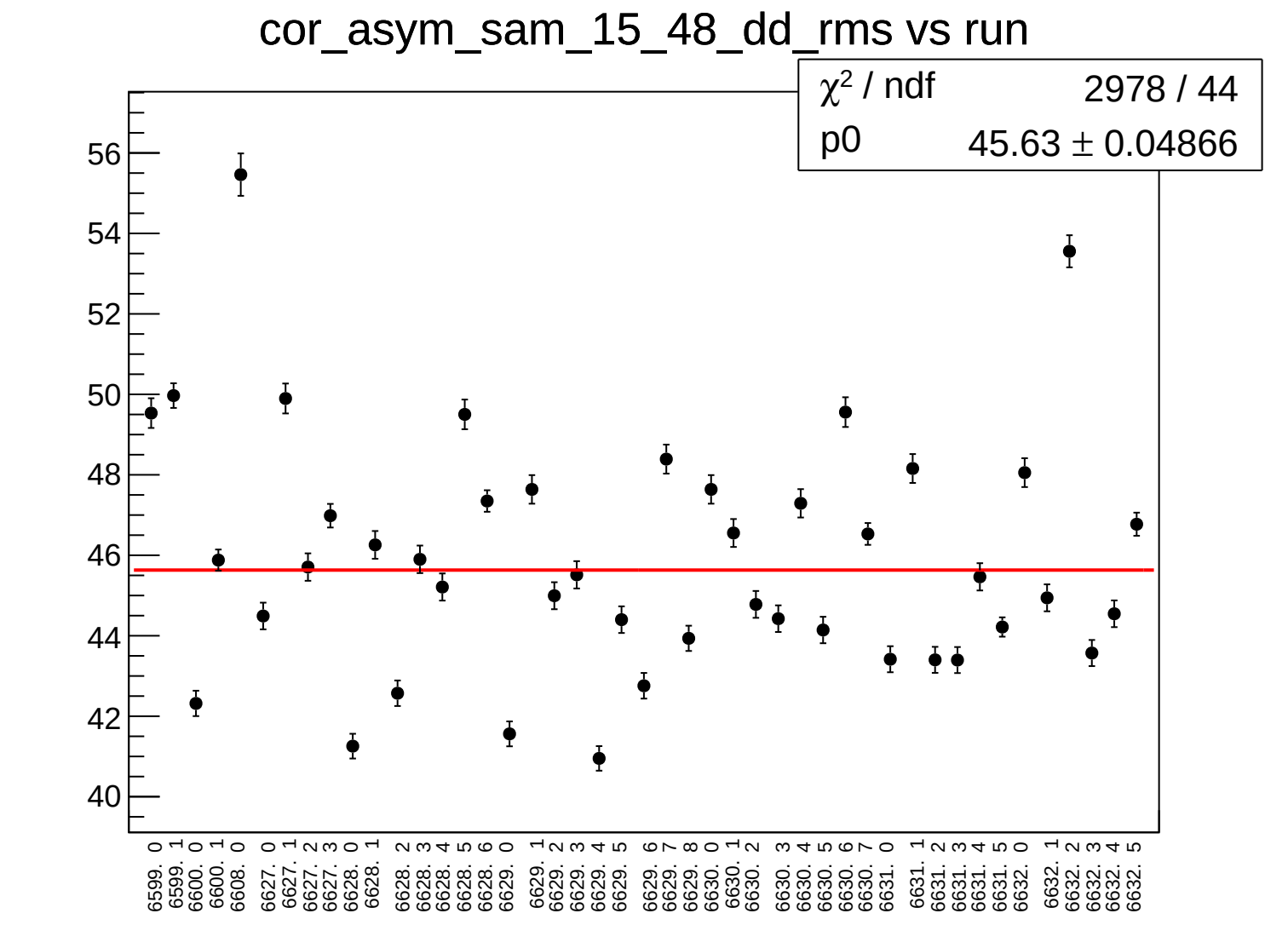
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 126.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01427
Std Dev 1.022
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 2978 / 44
p0 45.63 ± 0.04866
56
54
52
50
48
46
44
42
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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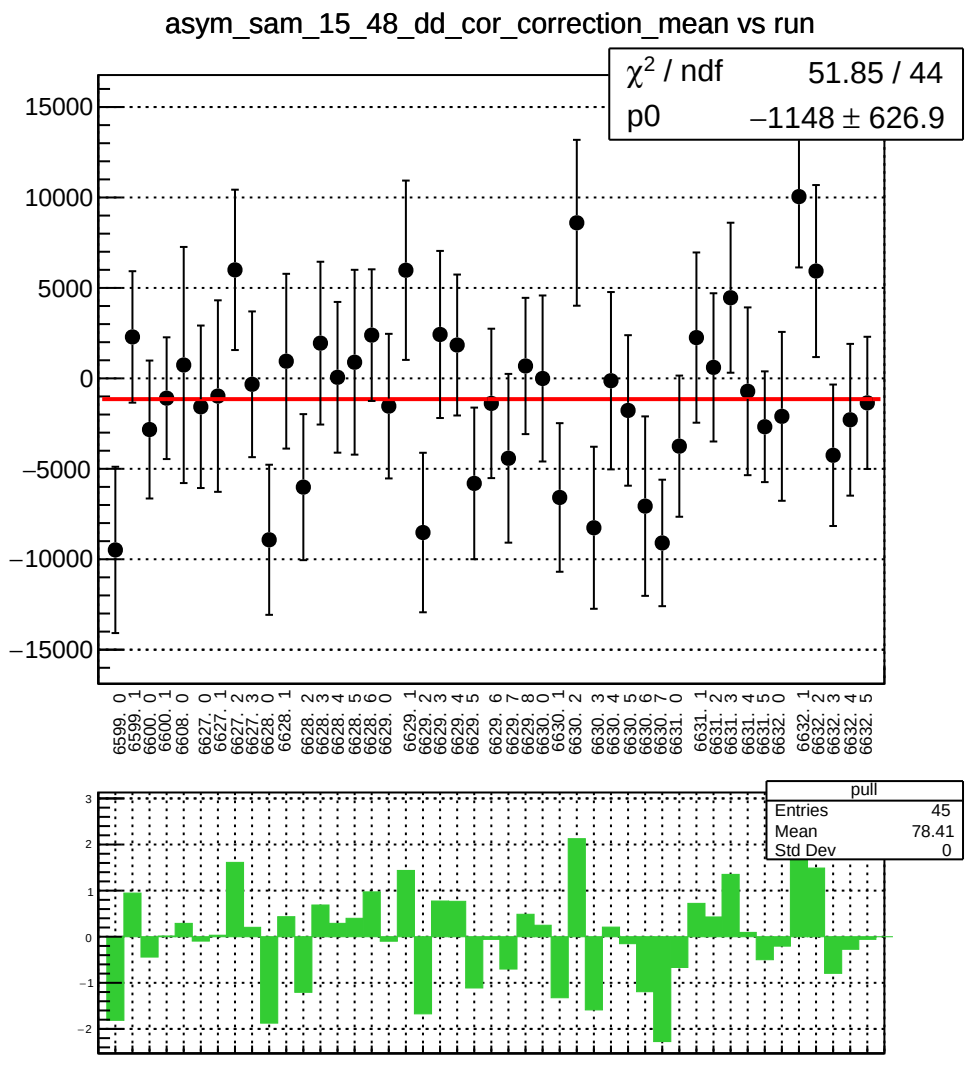
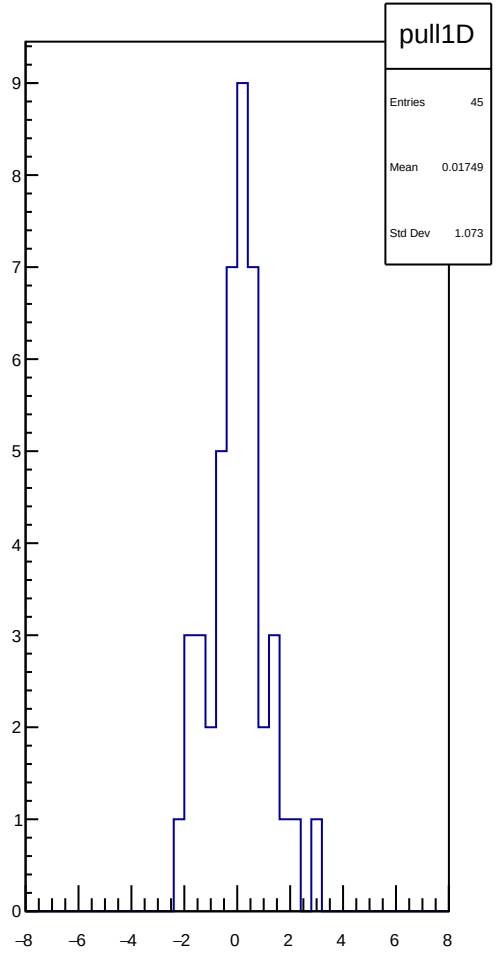
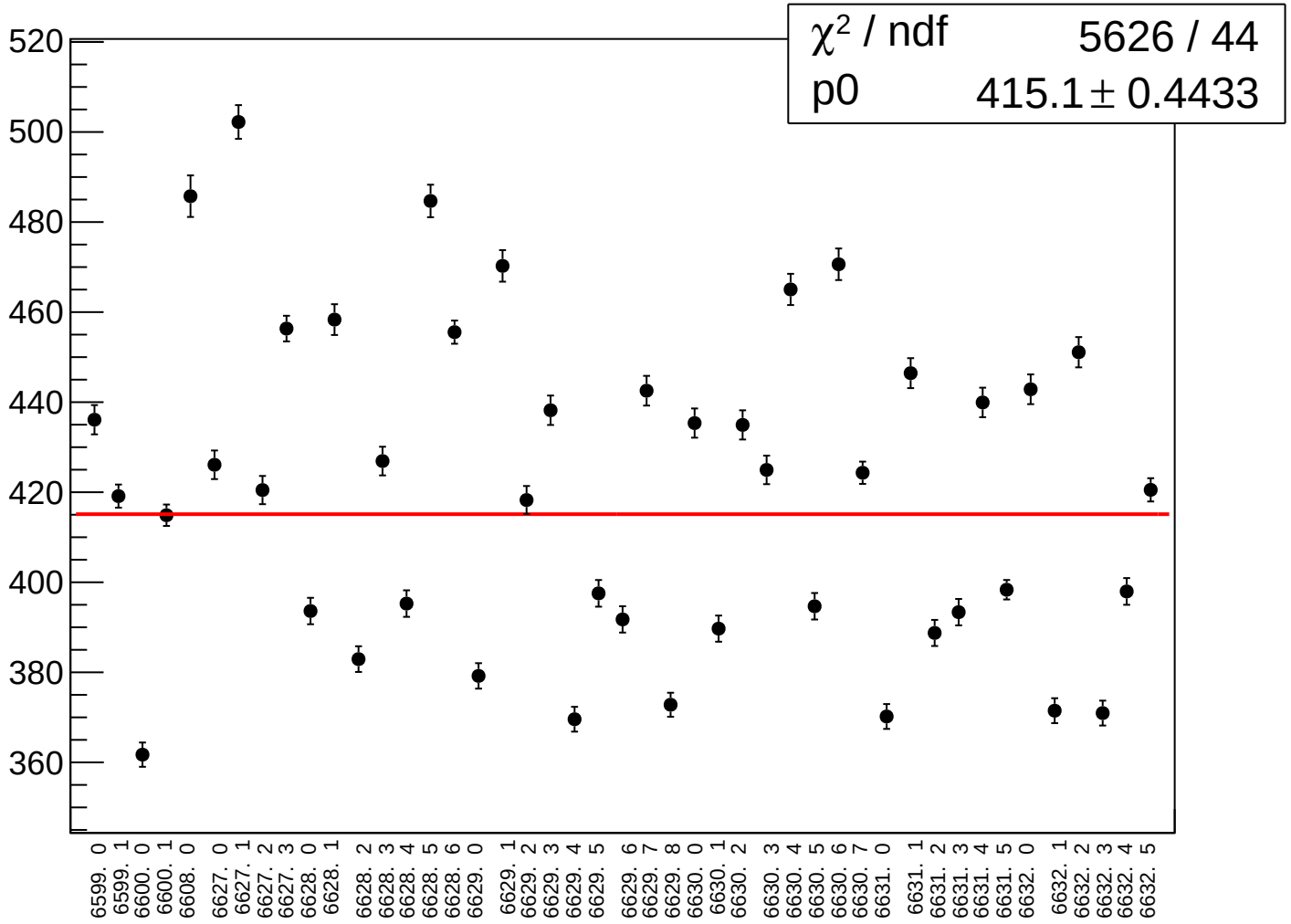
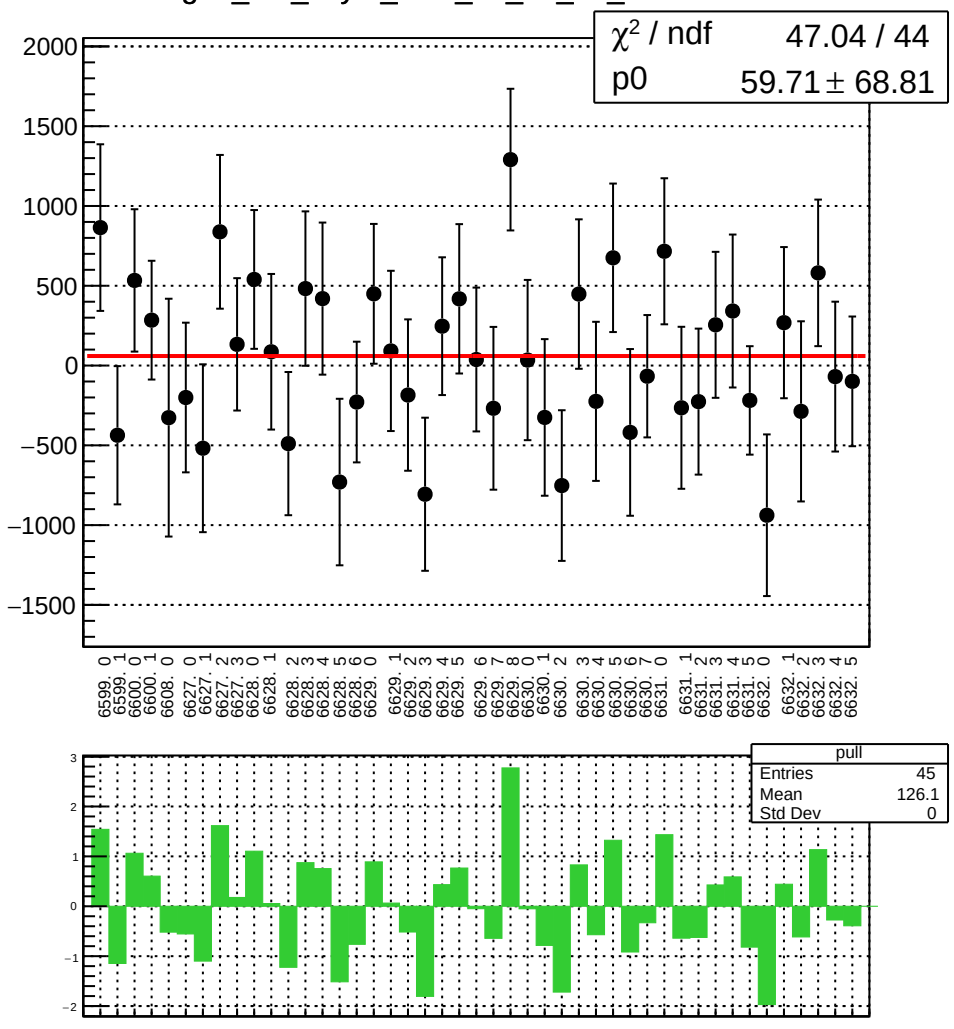
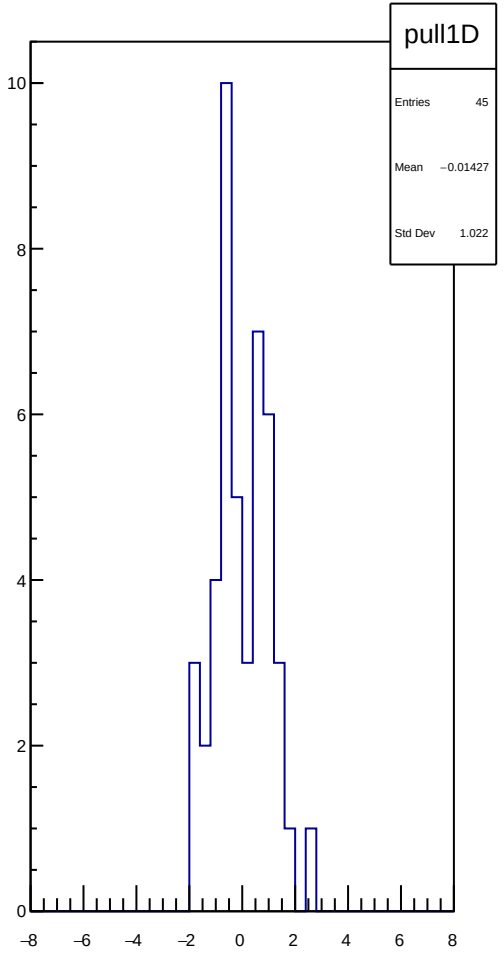
6632. 3
6632. 4
6632. 5

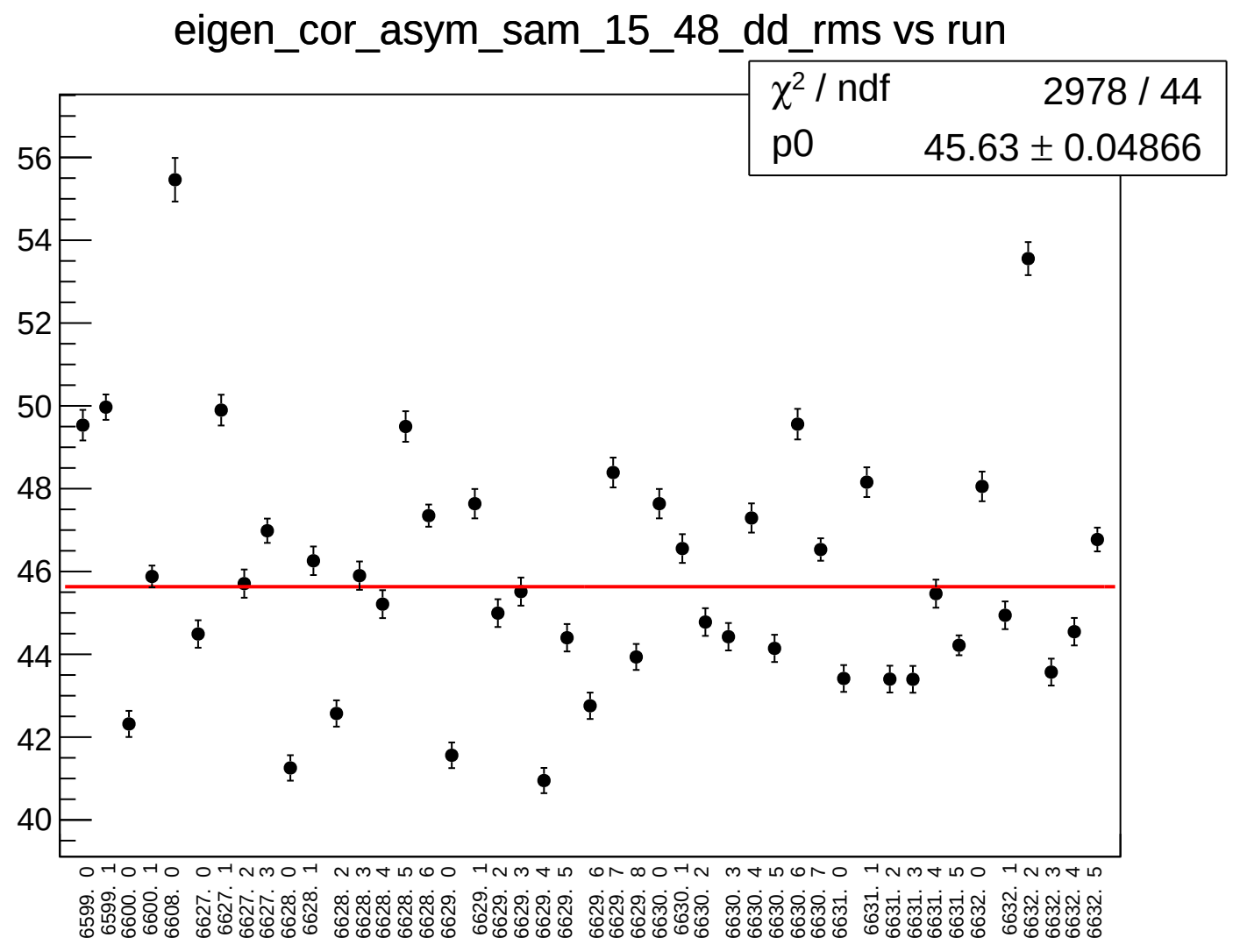

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 51.85 / 44
p0 −1148 ± 626.9
15000
10000
5000
0
−5000
−10000
−15000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 78.41
Std Dev 0
3
2
1
0
−1
−2

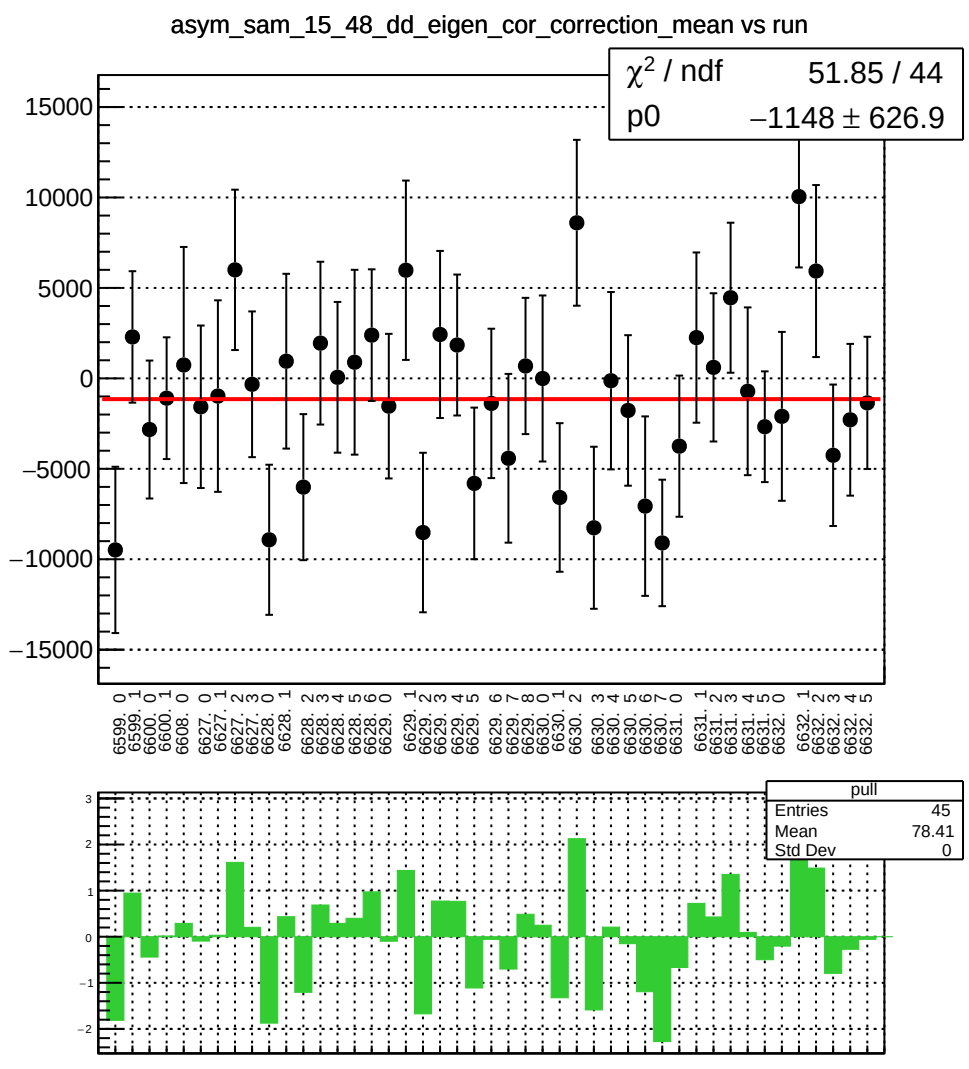

pull1D
Entries 45
Mean 0.01749
Std Dev 1.073
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

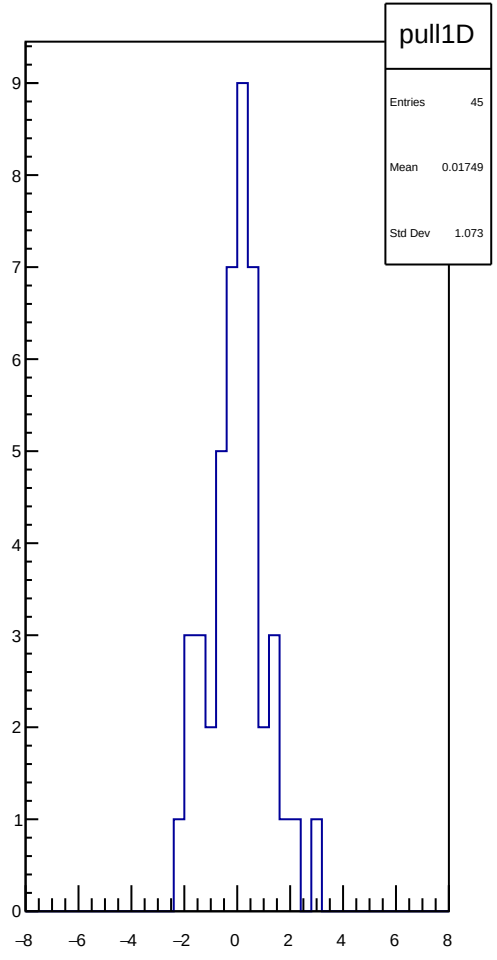

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 5626 / 44
p0 415.1 ± 0.4433
520
500
480
460
440
420
400
380
360
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

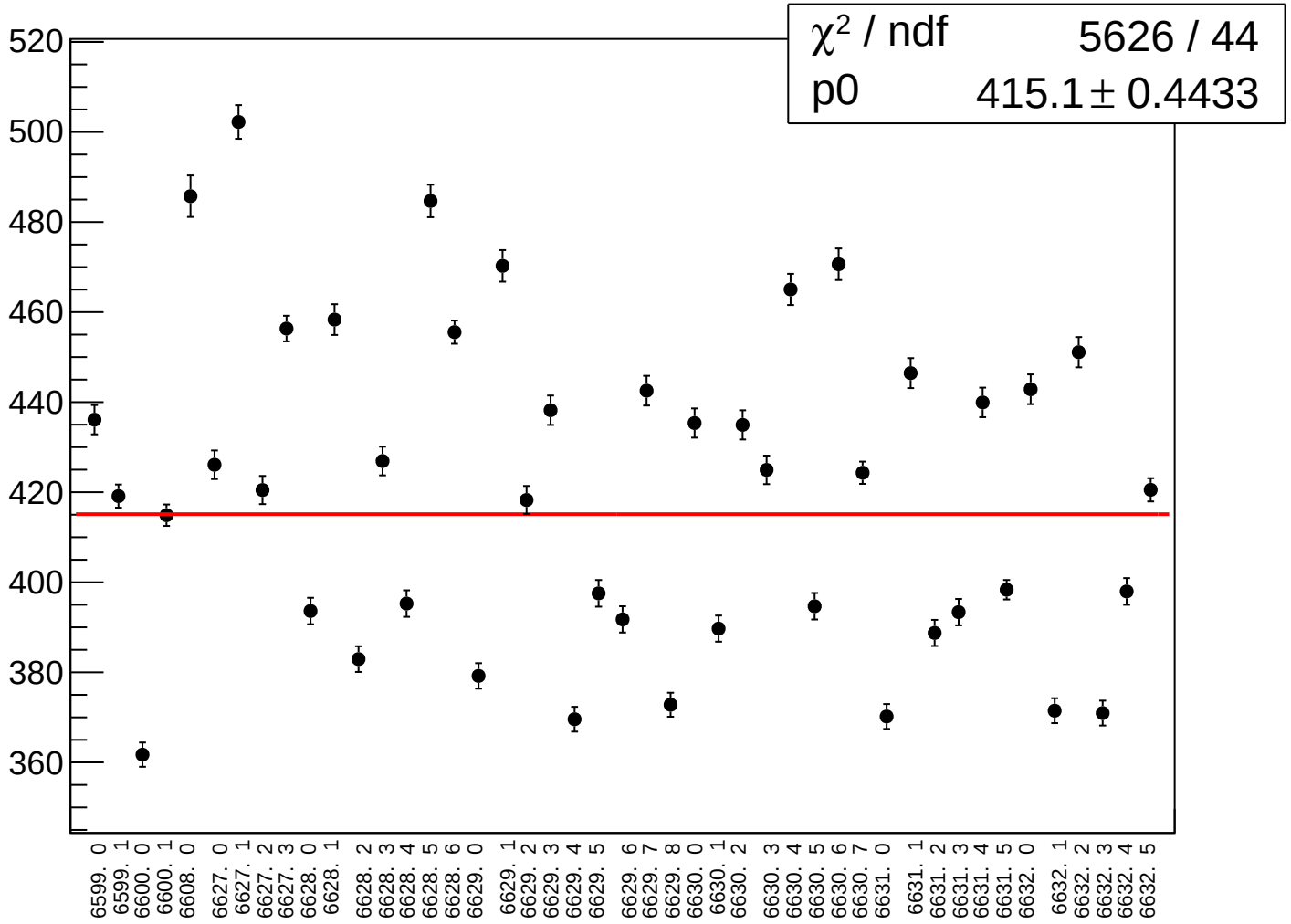

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 47.04 / 44
p0 59.71 ± 68.81
pull
Entries 45
Mean 126.1
Std Dev 0

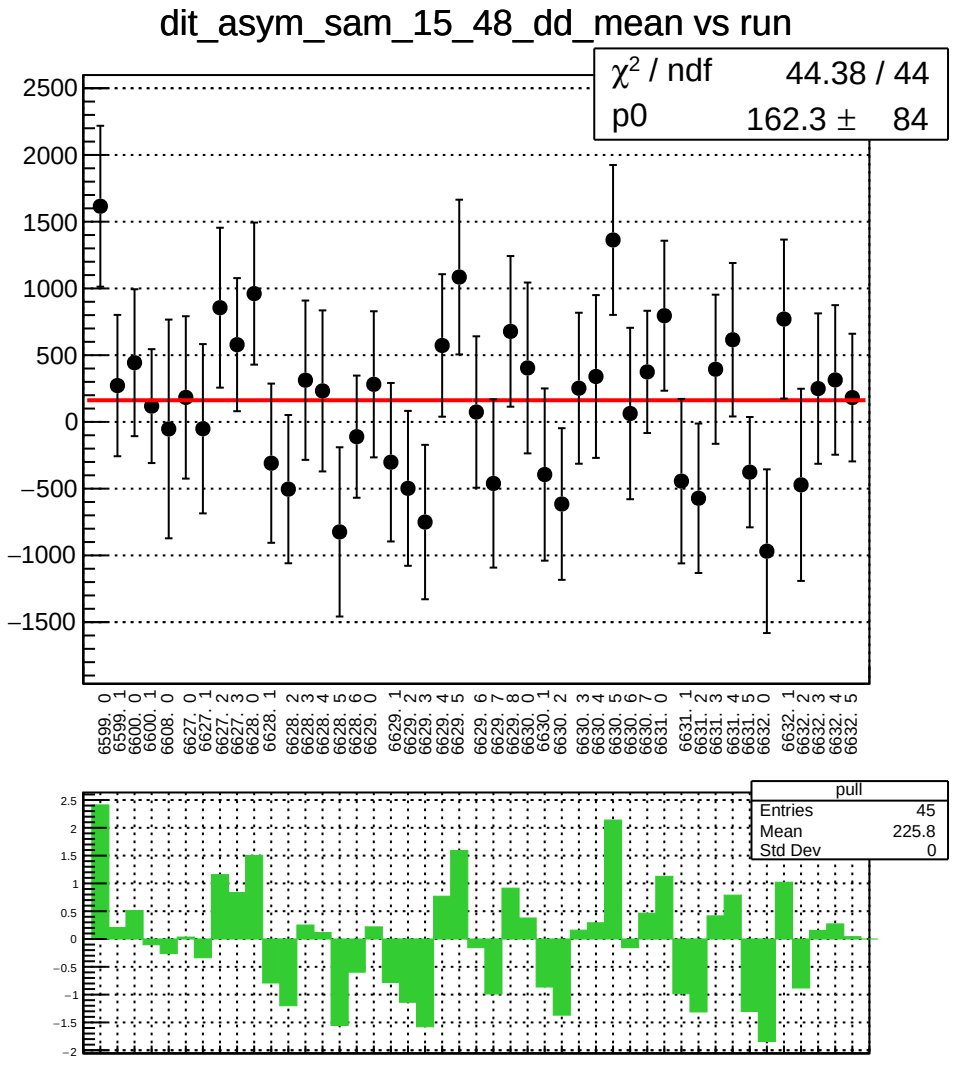

pull1D
Entries 45
Mean −0.01427
Std Dev 1.022

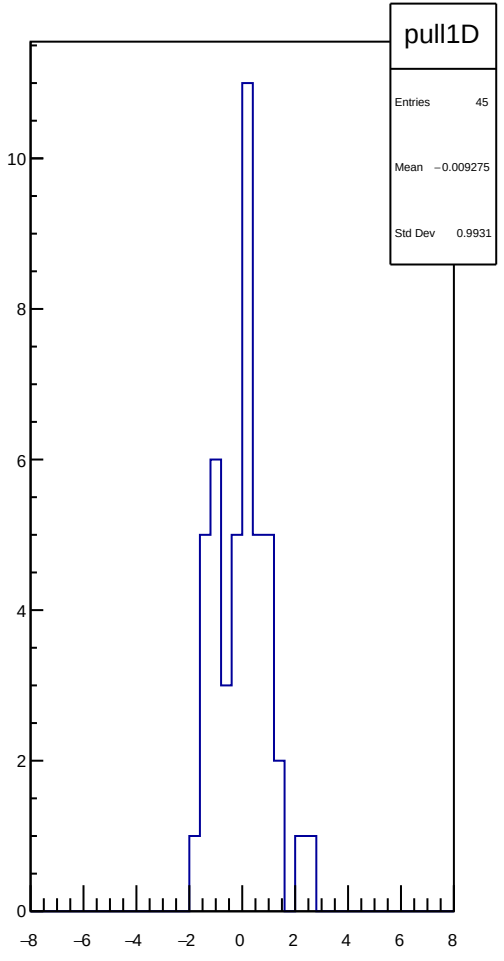

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 2978 / 44
p0 45.63 ± 0.04866
56
54
52
50
48
46
44
42
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

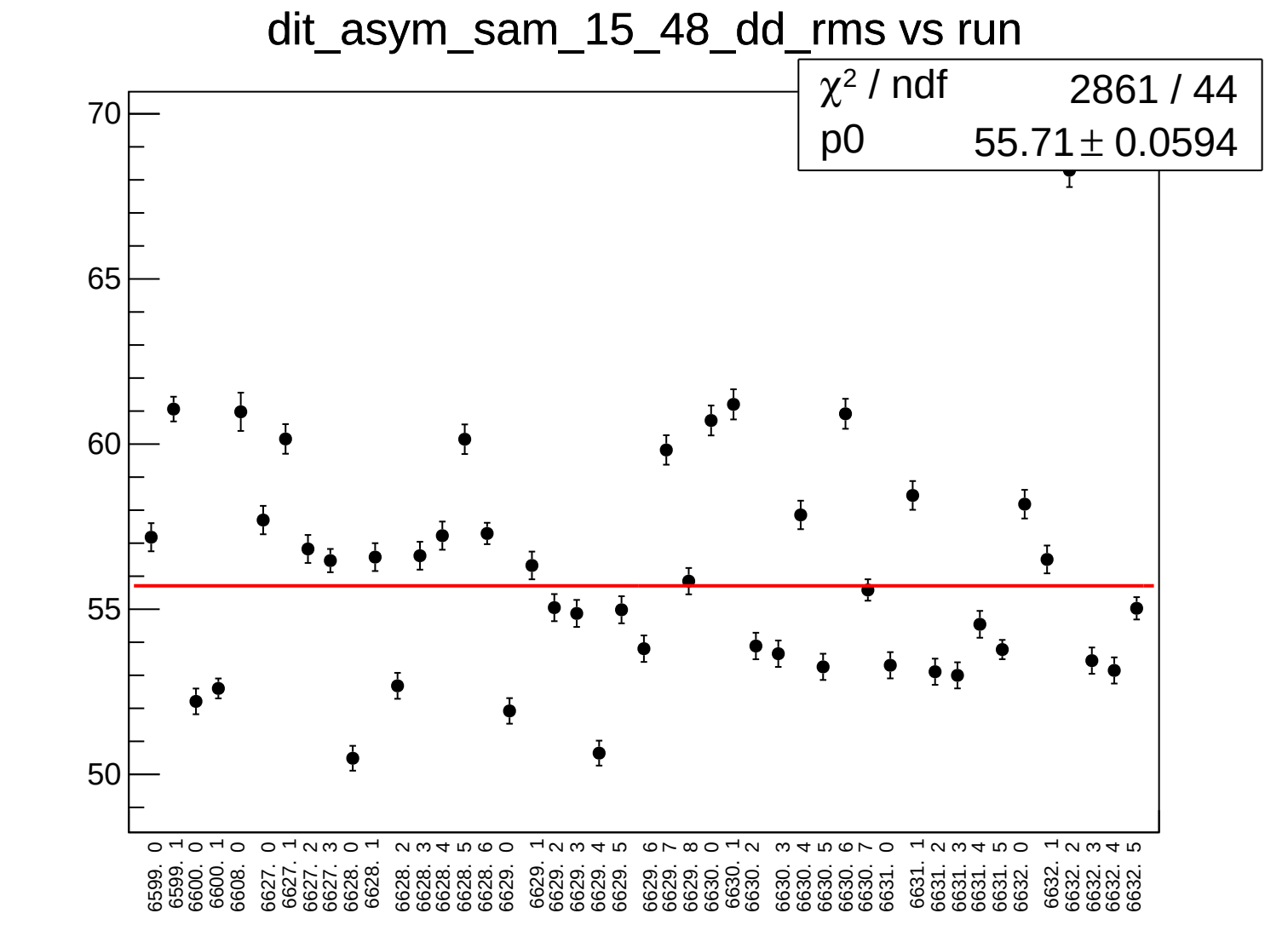

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 51.85 / 44
p0 −1148 ± 626.9
15000
10000
5000
0
−5000
−10000
−15000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 78.41
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.01749
Std Dev 1.073
9
8
7
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 5626 / 44
p0 415.1 ± 0.4433
520
500
480
460
440
420
400
380
360
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 44.38 / 44
p0 162.3 ± 84
pull
Entries 45
Mean 225.8
Std Dev 0


pull1D
Entries 45
Mean −0.009275
Std Dev 0.9931


dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 2861 / 44
p0 55.71 ± 0.0594
70
65
60
55
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 5
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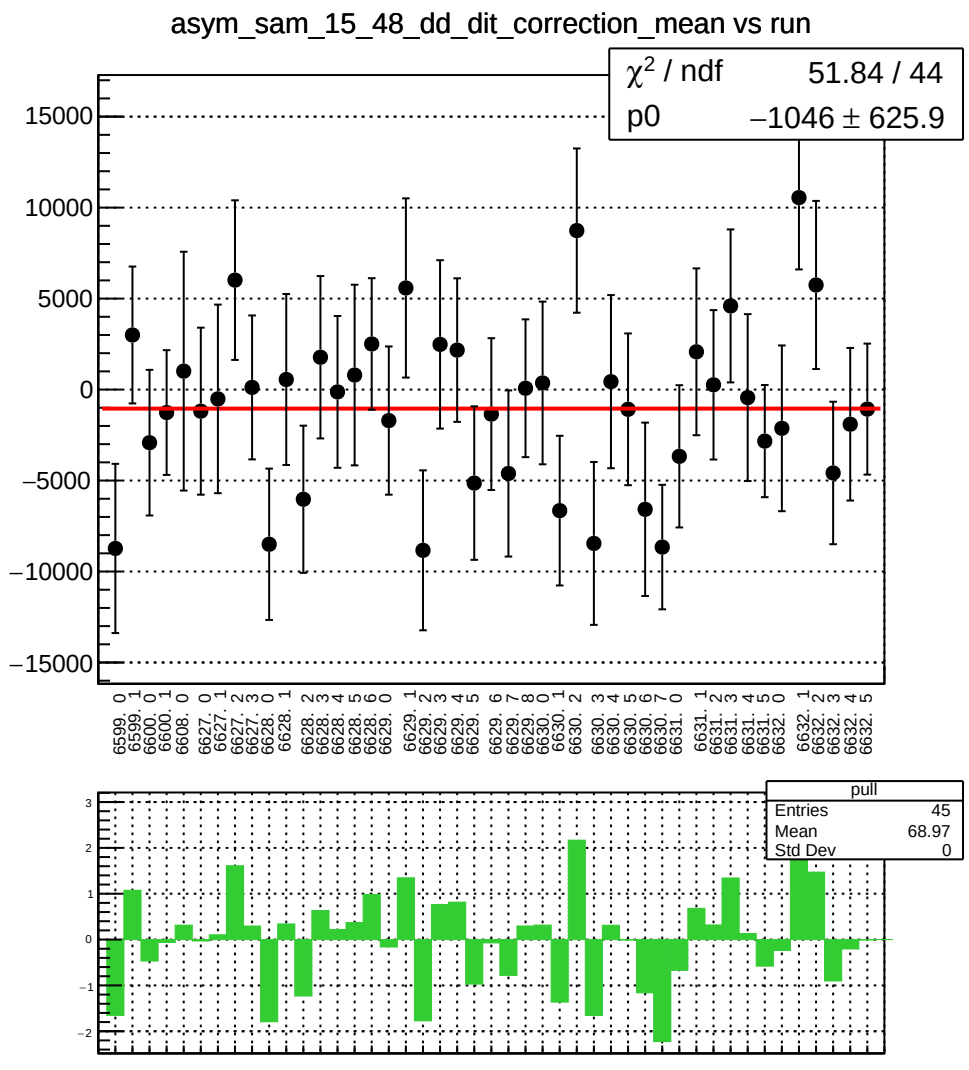
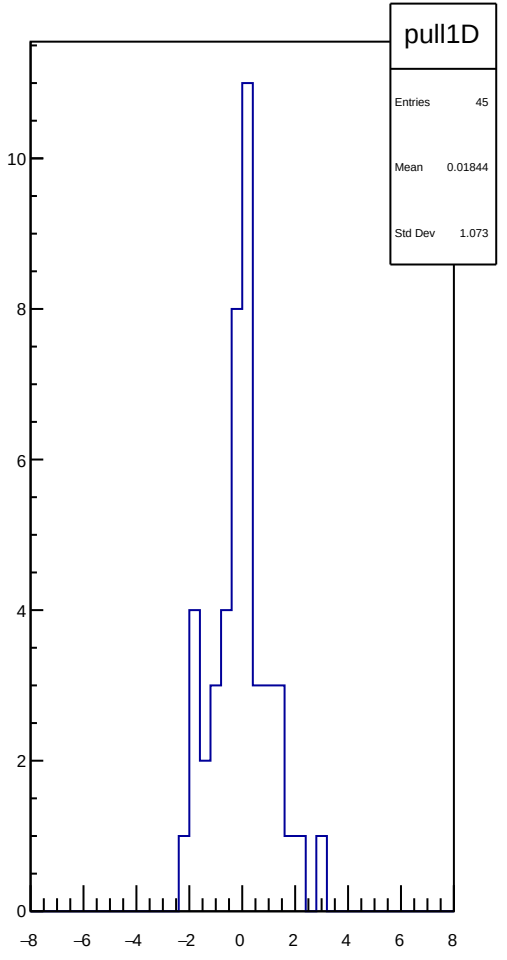
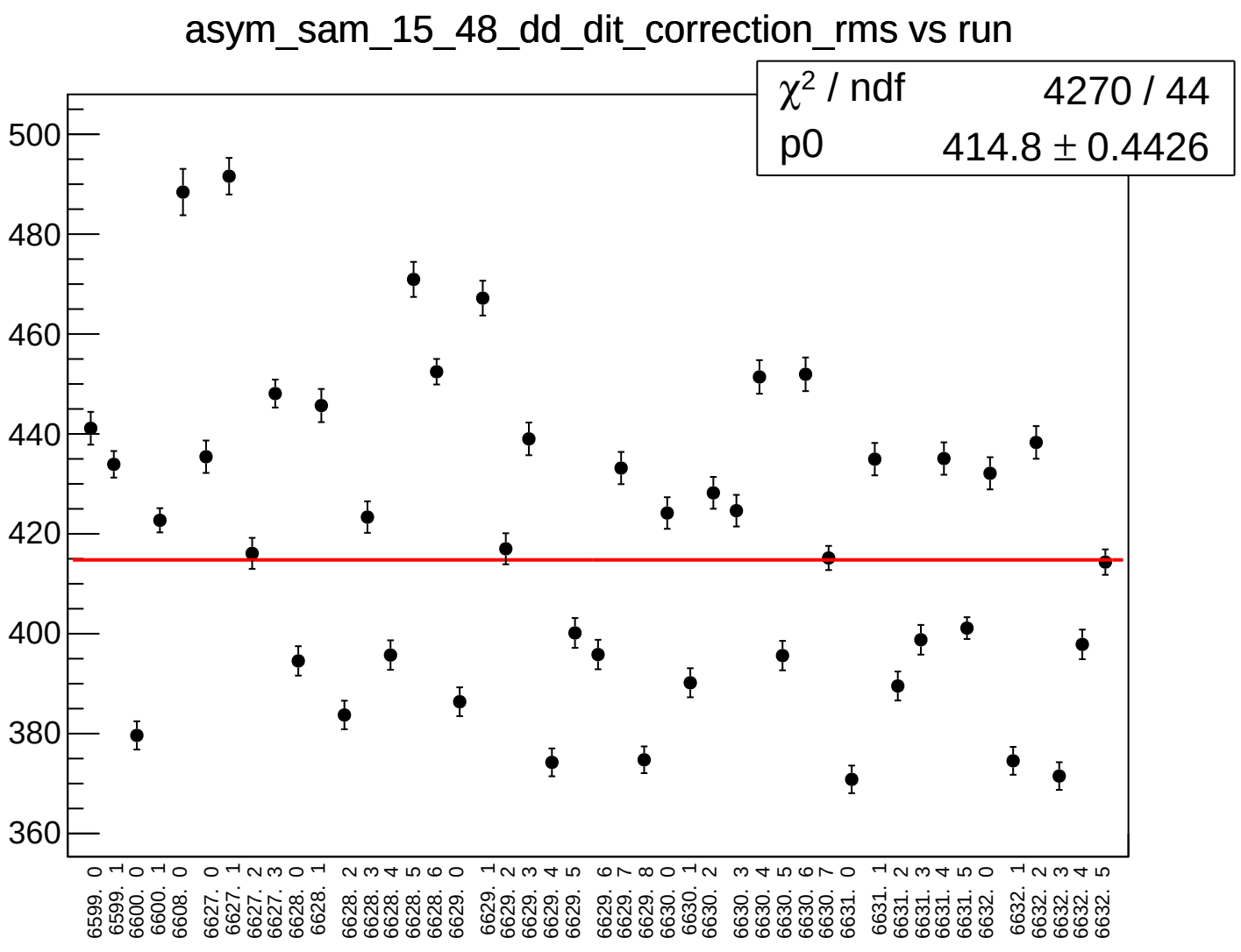
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 51.84 / 44
p0 −1046 ± 625.9
15000
10000
5000
0
−5000
−10000
−15000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 68.97
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.01844
Std Dev 1.073
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 4270 / 44
p0 414.8 ± 0.4426
500
480
460
440
420
400
380
360
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 6
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6630. 6
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6631. 0
6631. 1
6631. 2
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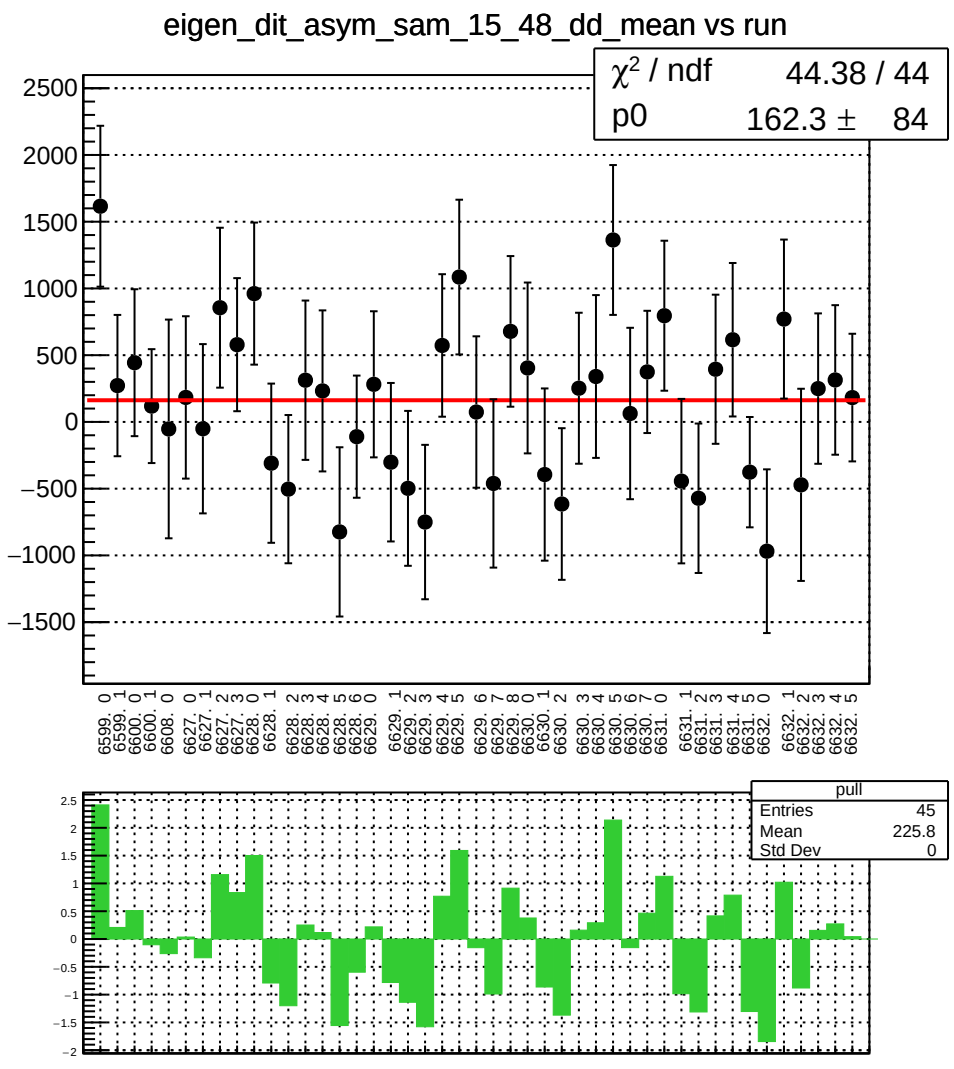
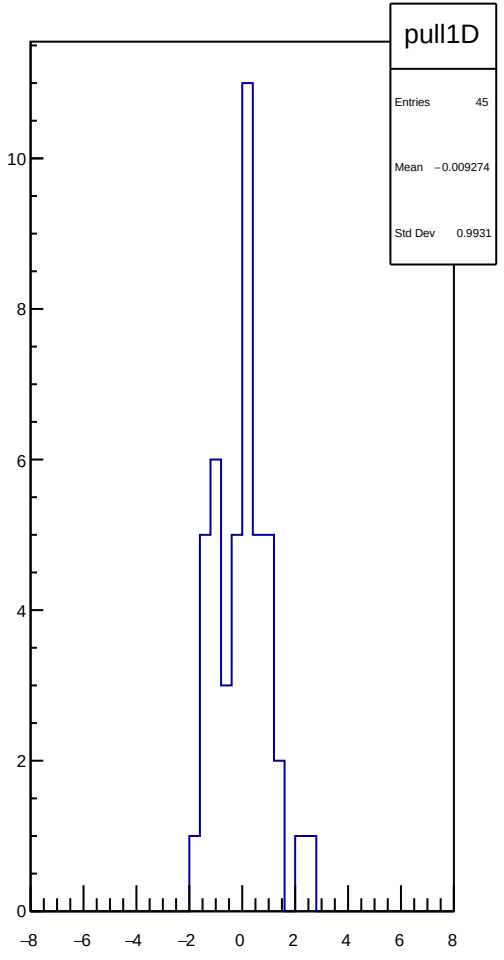
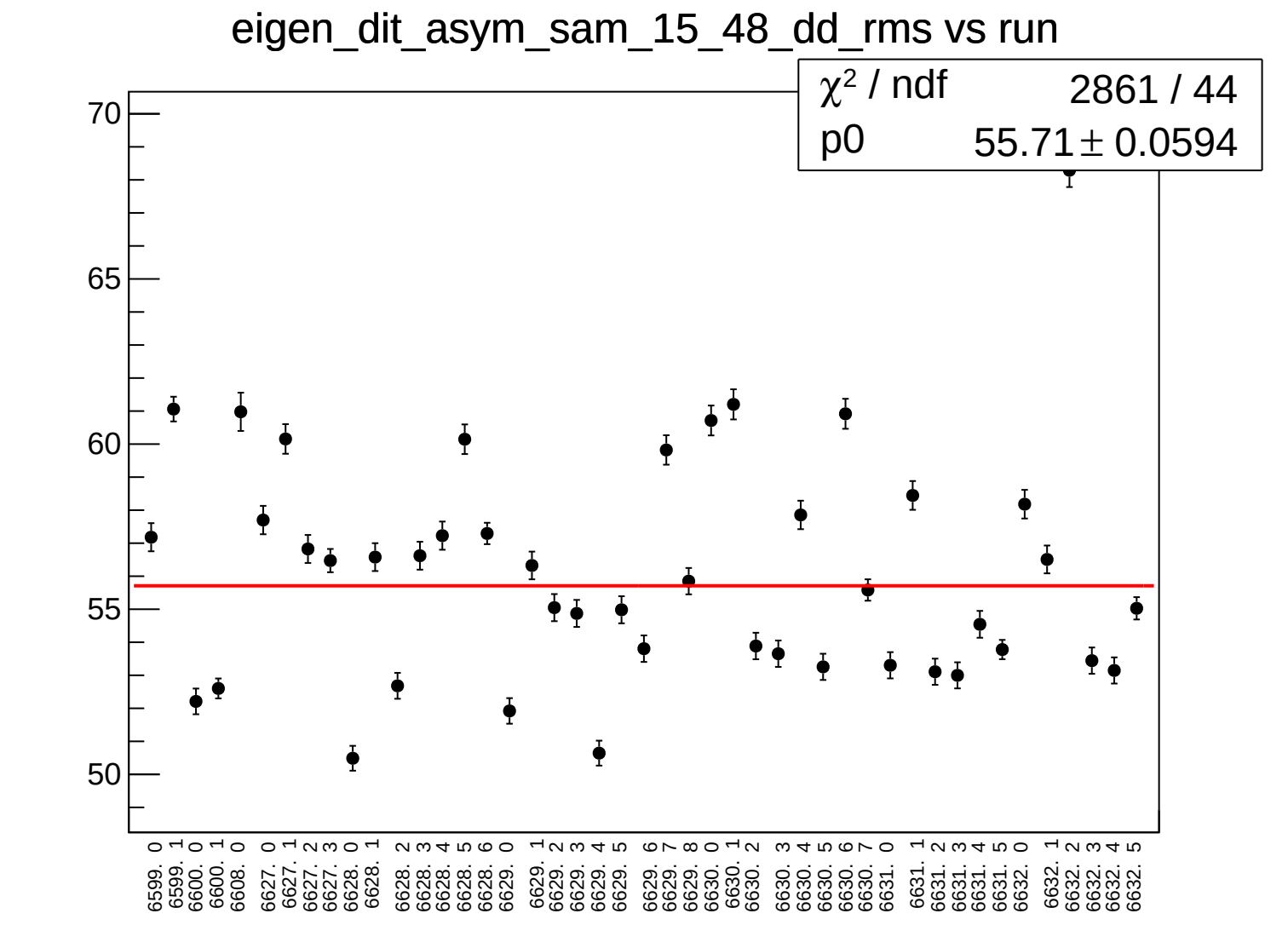
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 44.38 / 44
p0 162.3 ± 84
pull
Entries 45
Mean 225.8
Std Dev 0


pull1D
Entries 45
Mean −0.009274
Std Dev 0.9931


eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 2861 / 44
p0 55.71 ± 0.0594
70
65
60
55
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
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6629. 8
6630. 0
6630. 1
6630. 2
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6630. 4
6630. 5
6630. 6
6630. 7
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6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
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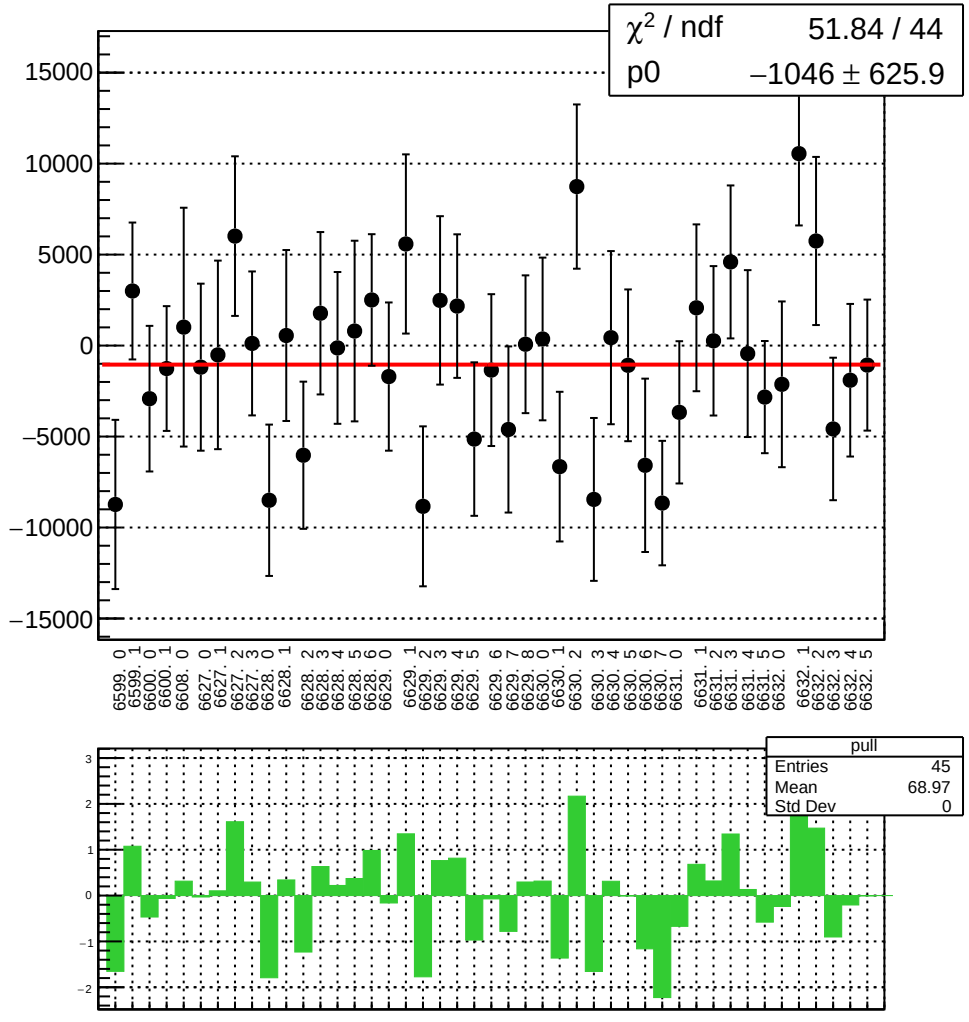
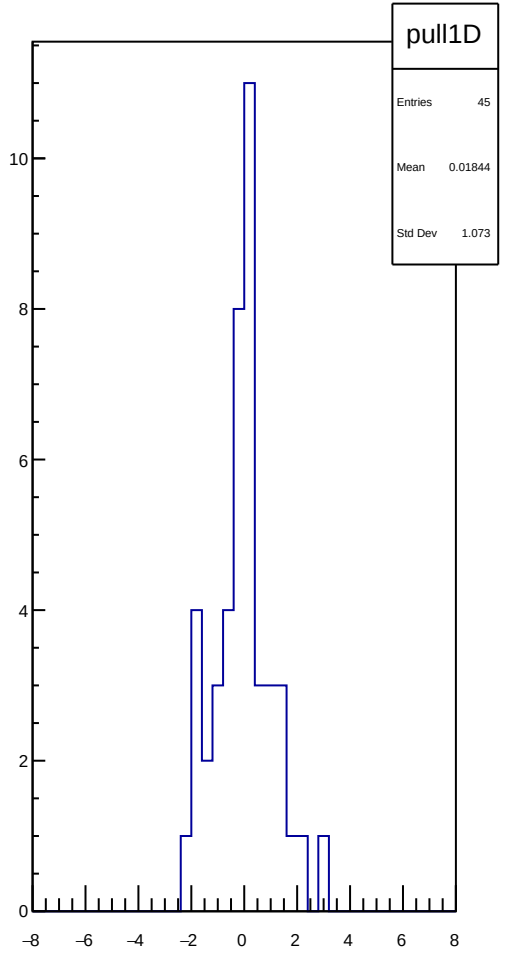
6632. 2
6632. 3
6632. 4
6632. 5

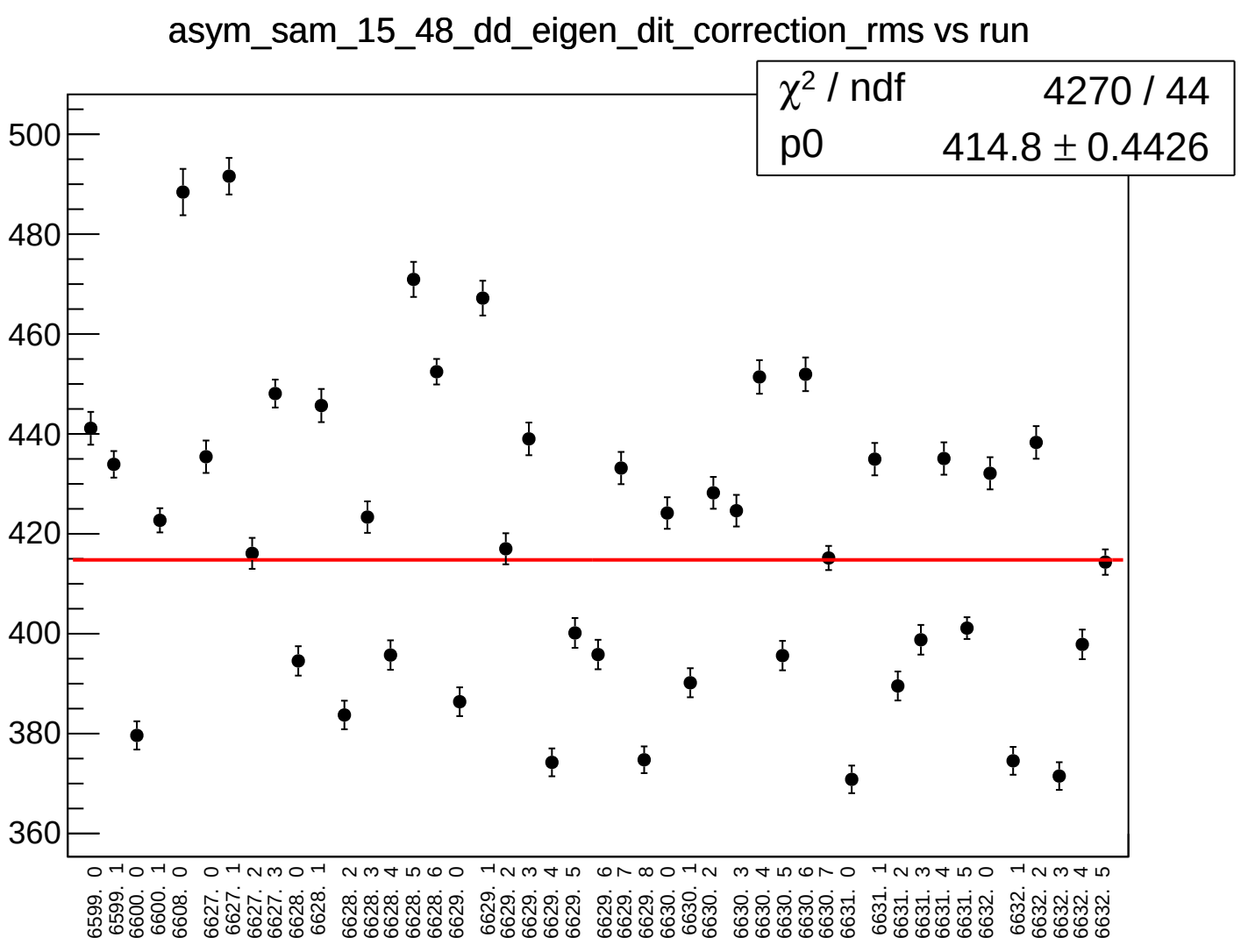
asym_sam_15_48_dd_eigen_dit_correction_mean vs run










asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 4270 / 44
p0 414.8 ± 0.4426
500
480
460
440
420
400
380
360
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
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6629. 3
6629. 4
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6629. 6
6629. 7
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6630. 1
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6630. 7
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6631. 4
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6632. 0
6632. 1
6632. 2
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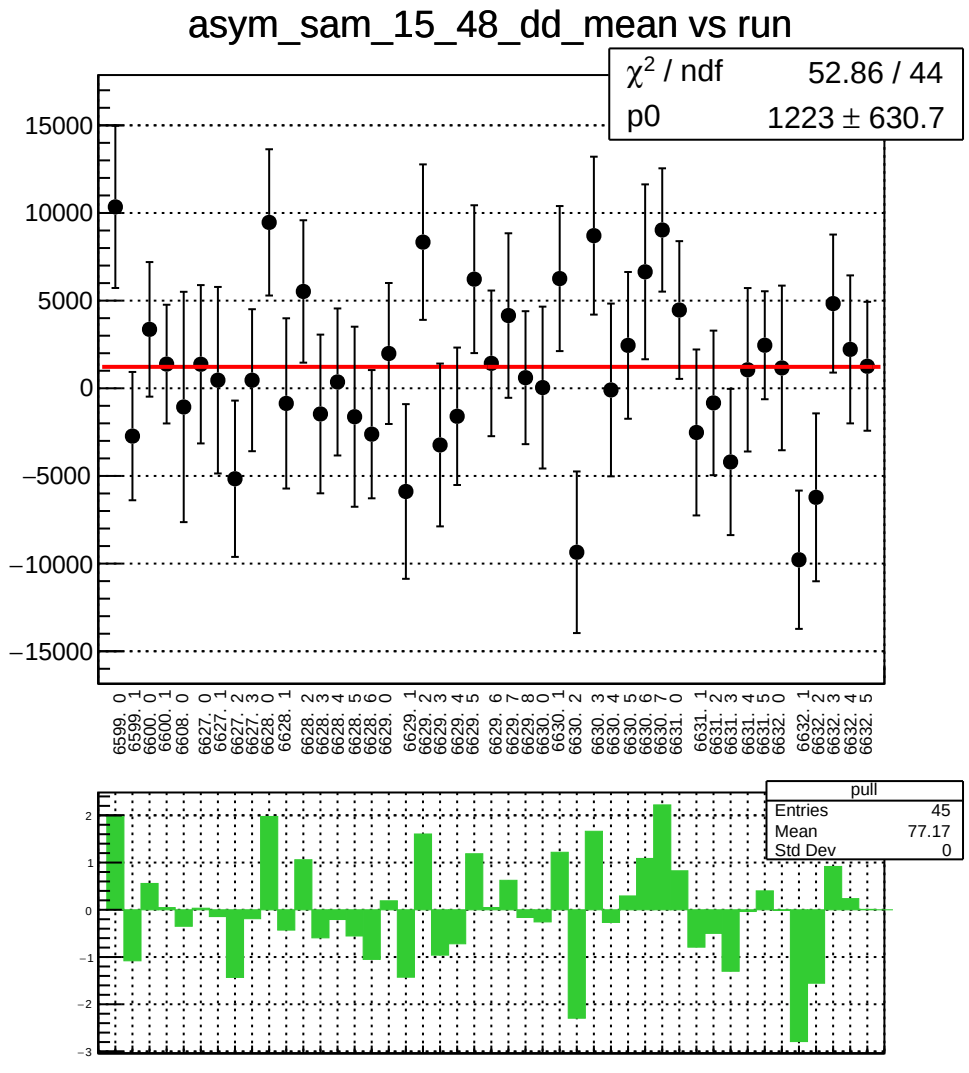
6632. 4
6632. 5


asym_sam_15_48_dd_mean vs run
$\chi^2$ / ndf 52.86 / 44
p0 1223 ± 630.7
15000
10000
5000
0
−5000
−10000
−15000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
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6628. 4
6628. 5
6628. 6
6629. 0
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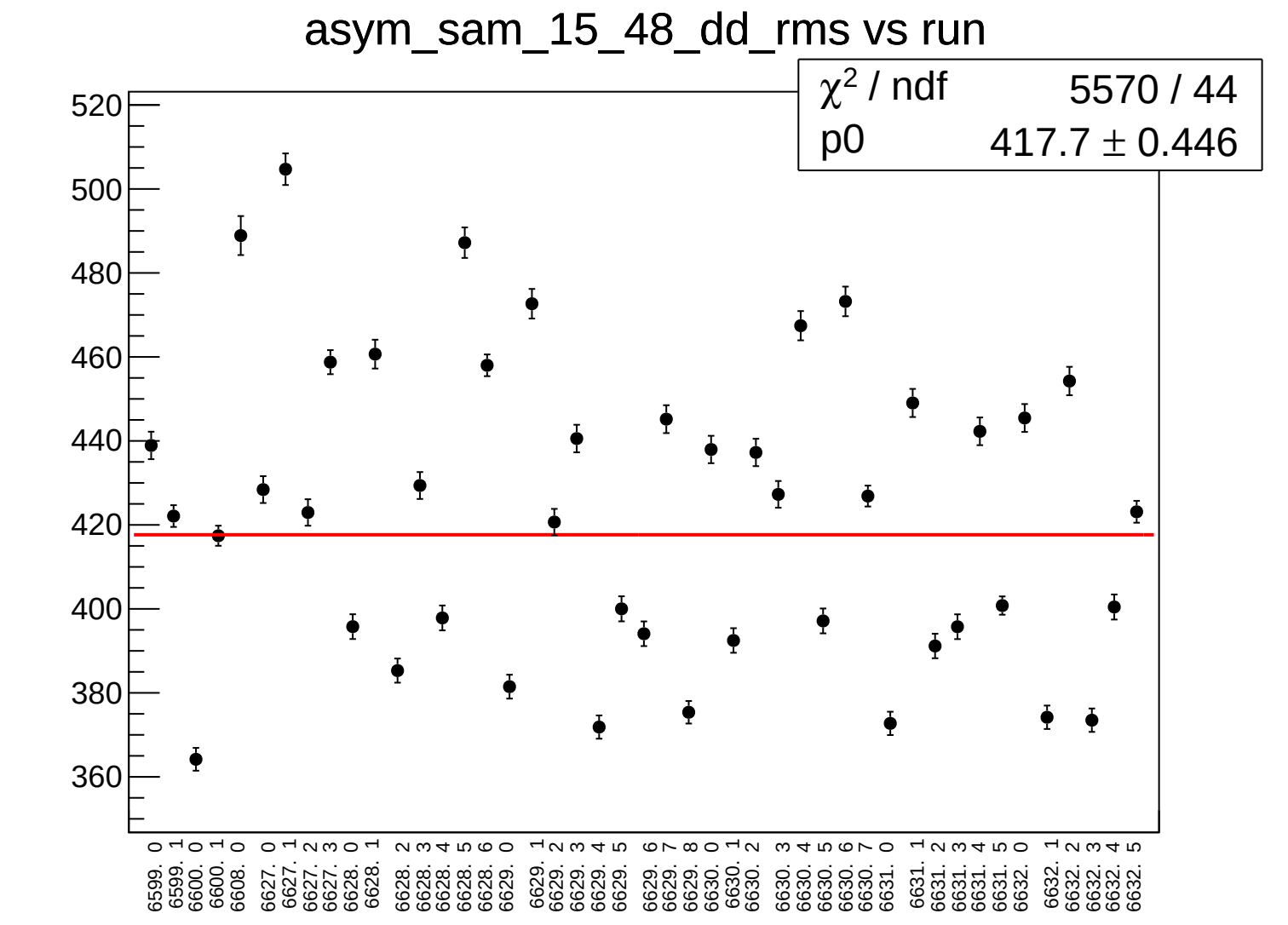
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 77.17
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.02069
Std Dev 1.084
9
8
7
6
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 5570 / 44
p0 417.7 ± 0.446
520
500
480
460
440
420
400
380
360
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
6629. 3
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6629. 6
6629. 7
6629. 8
6630. 0
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6630. 2
6630. 3
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6630. 6
6630. 7
6631. 0
6631. 1
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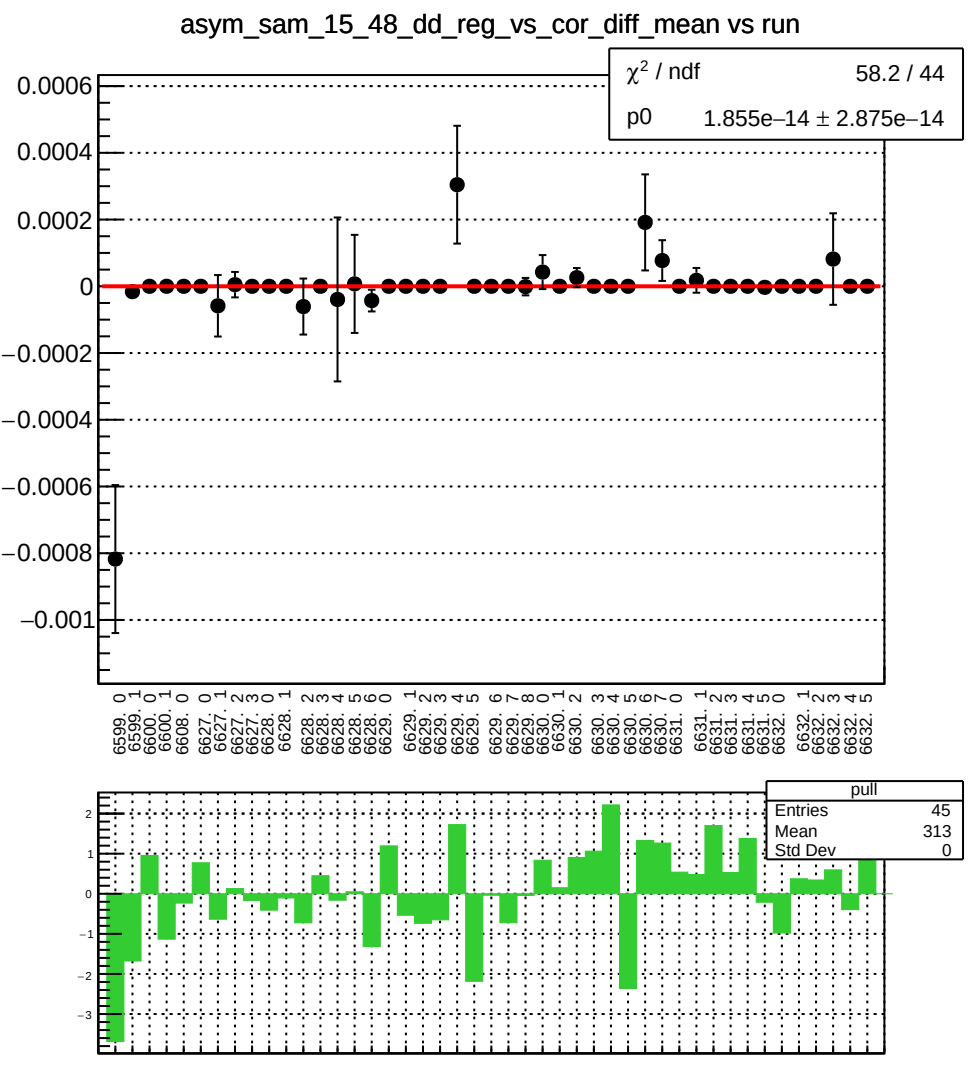
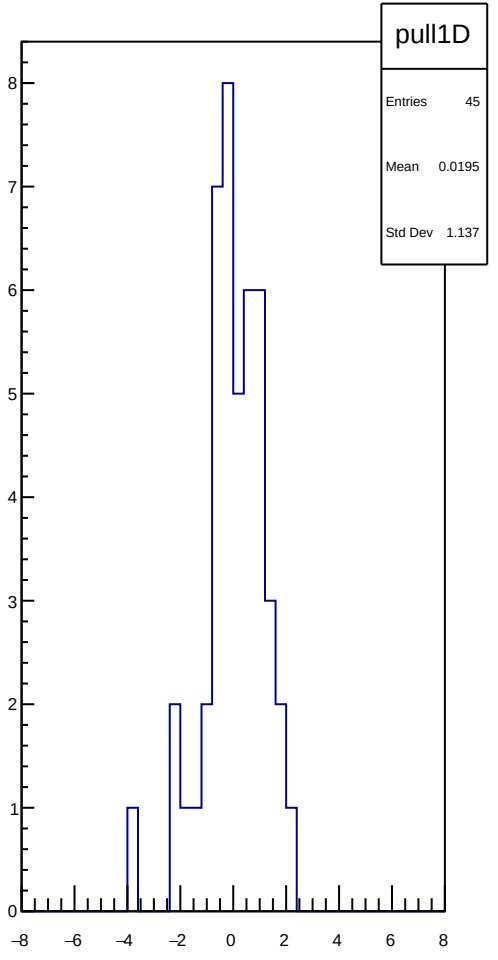
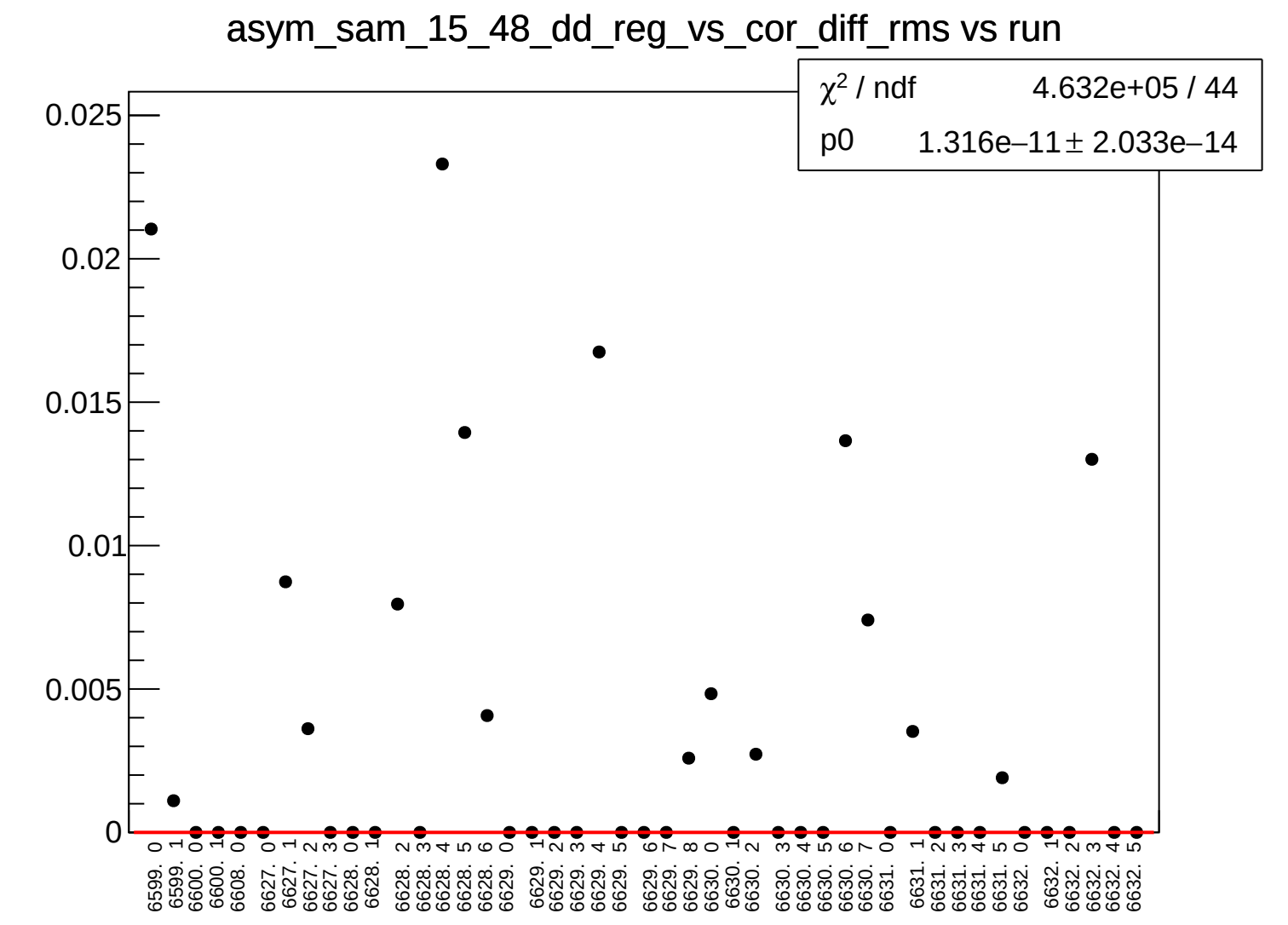
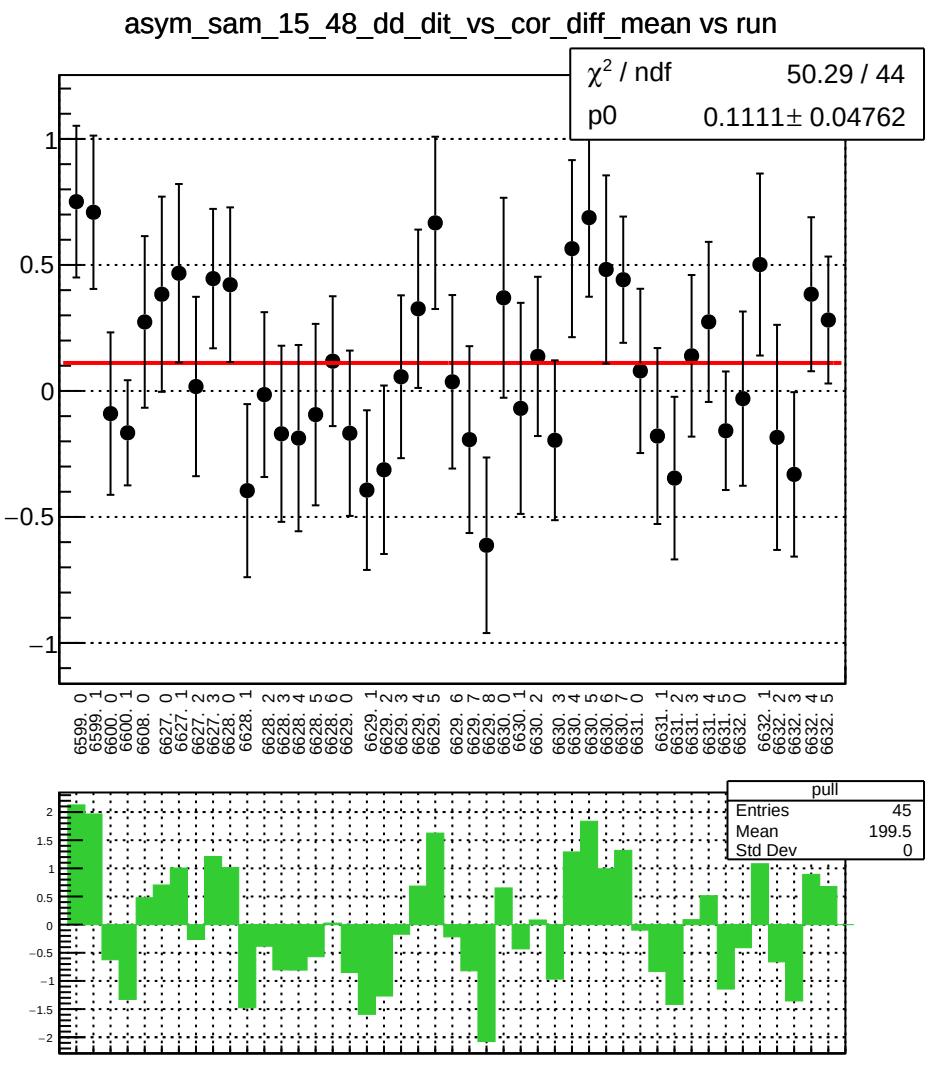
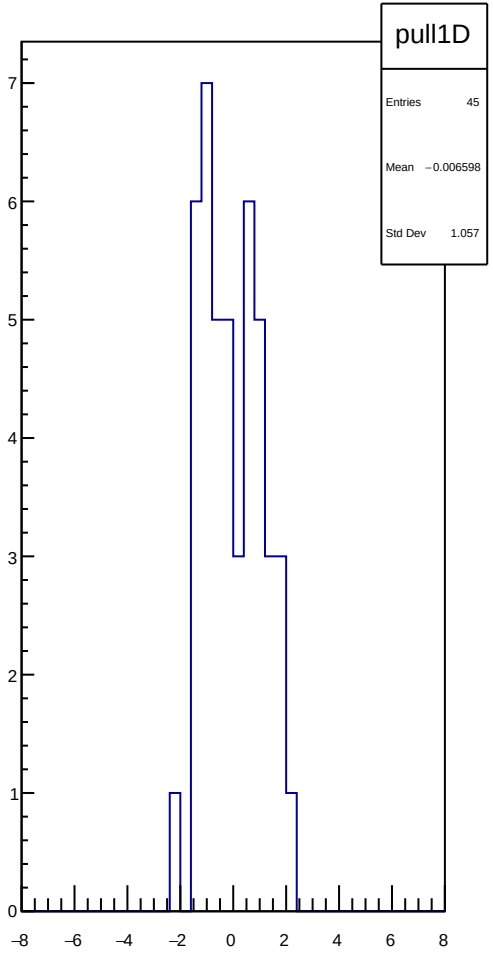
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

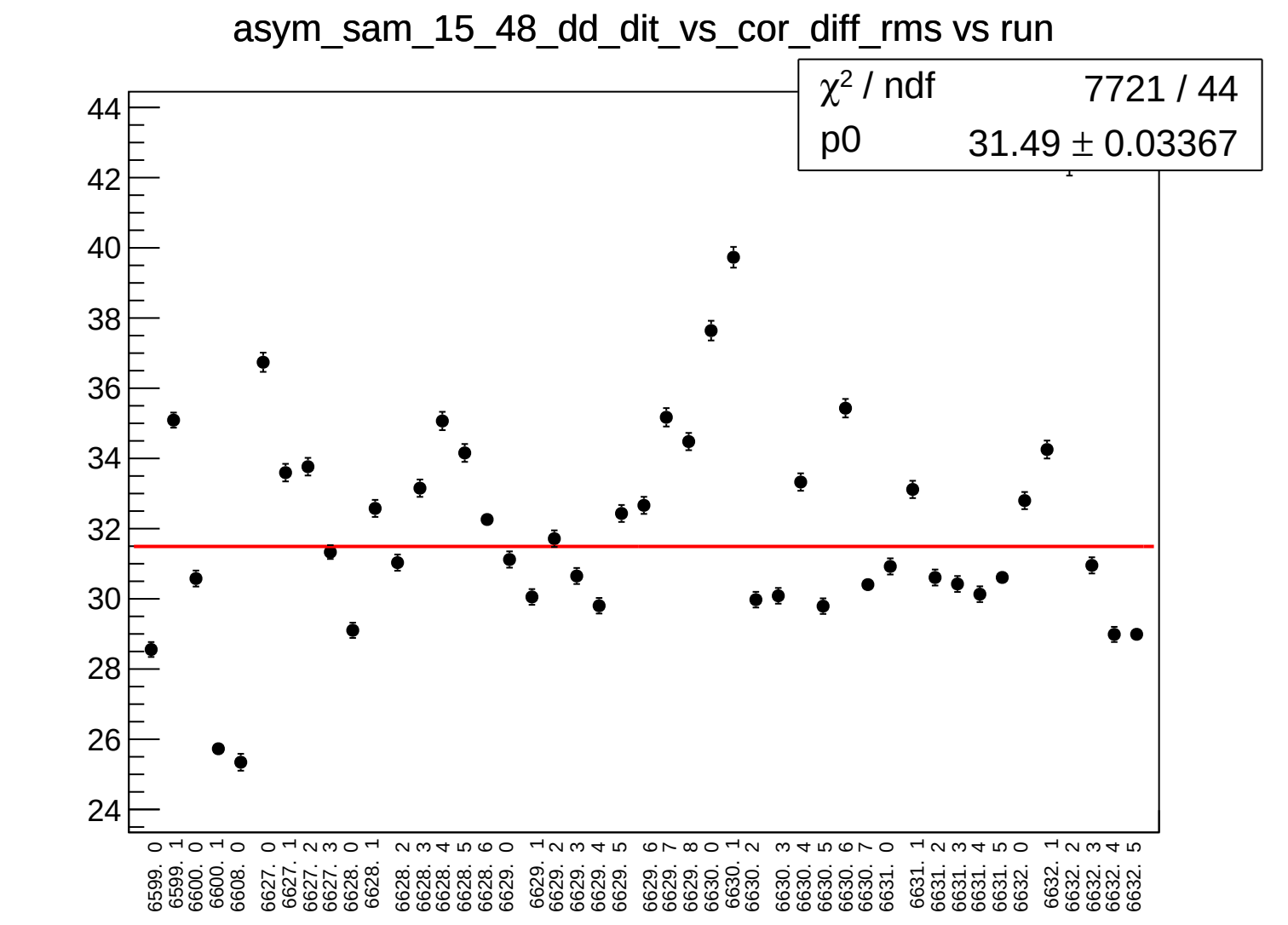

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 58.2 / 44
p0 1.855e−14 ± 2.875e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 313
Std Dev 0
2
1
0
−1
−2
−3

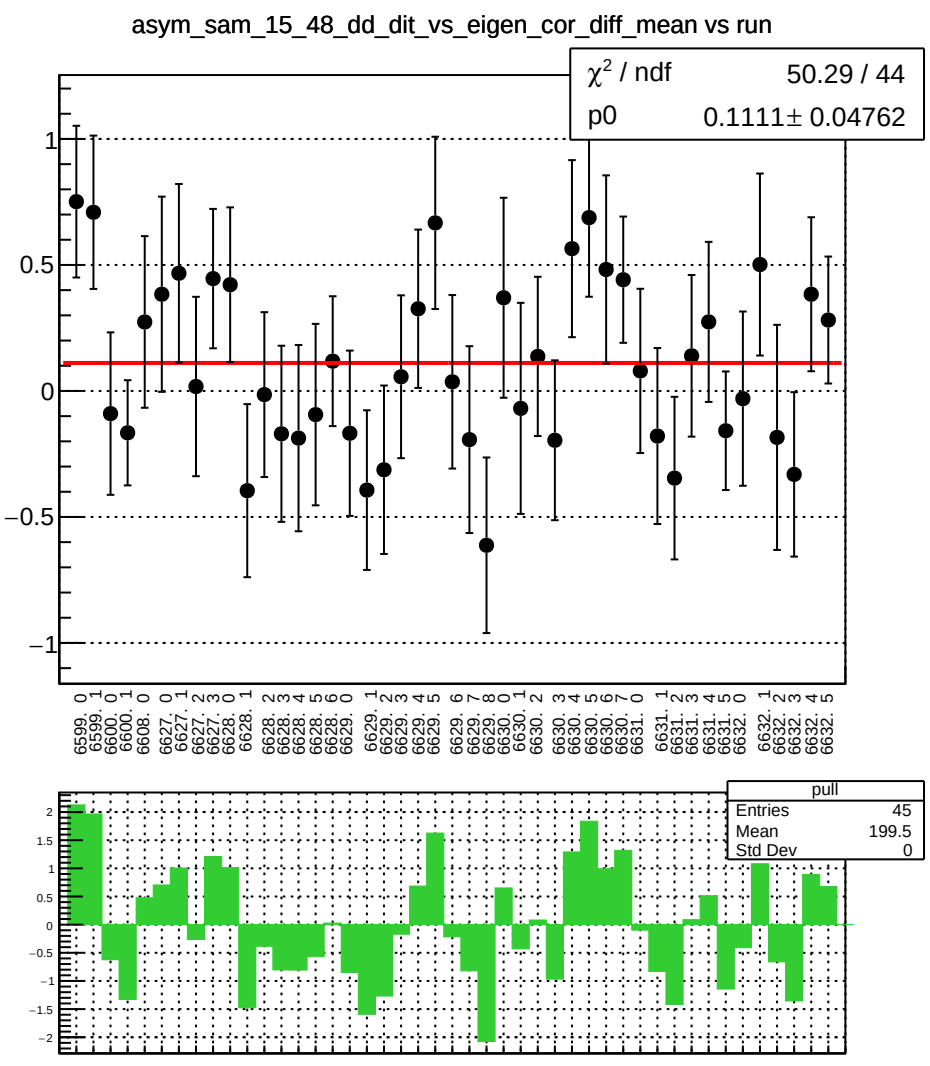

pull1D
Entries 45
Mean 0.0195
Std Dev 1.137
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

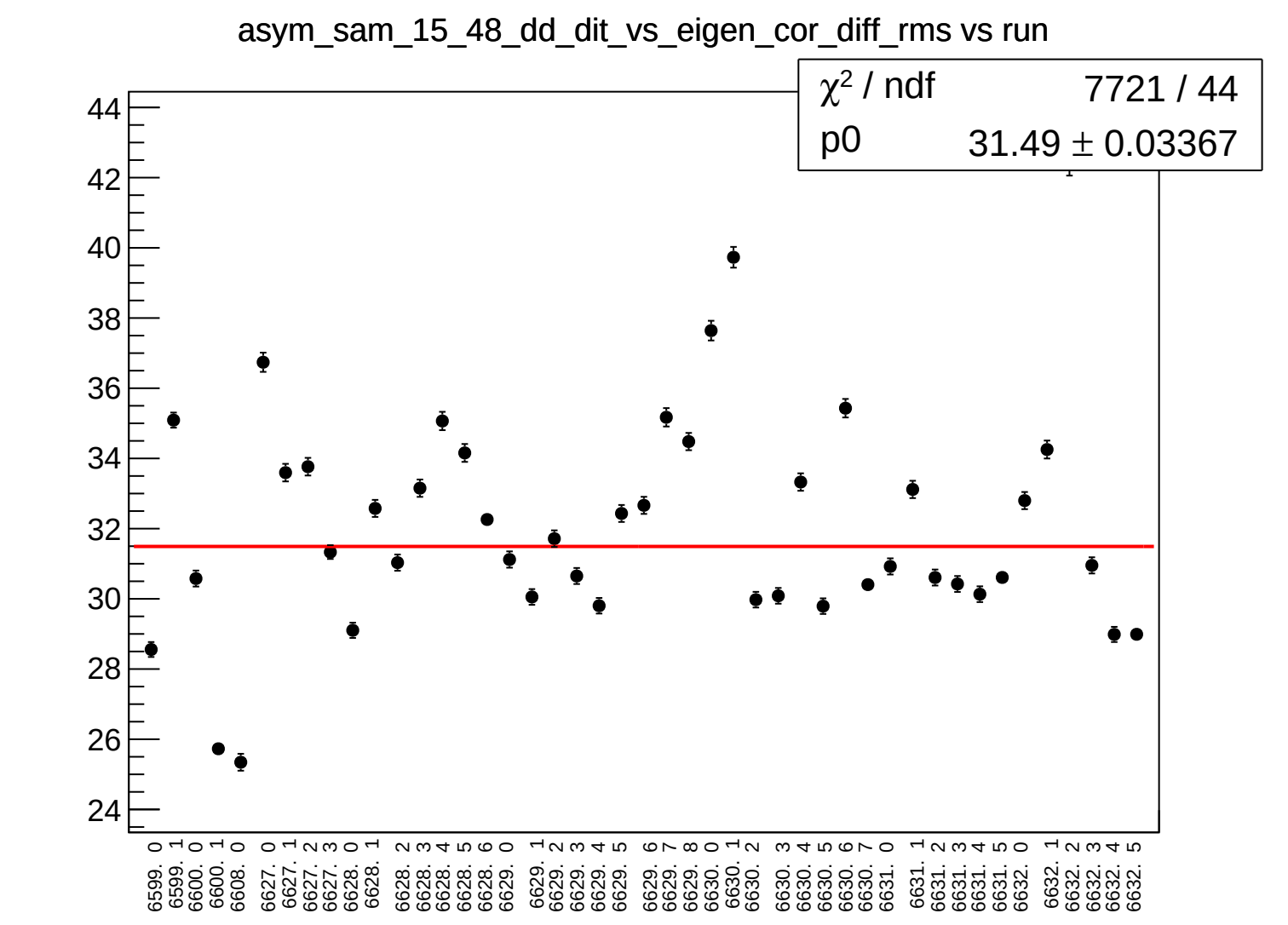

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.632e+05 / 44
p0 1.316e−11 ± 2.033e−14
0.025
0.02
0.015
0.01
0.005
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

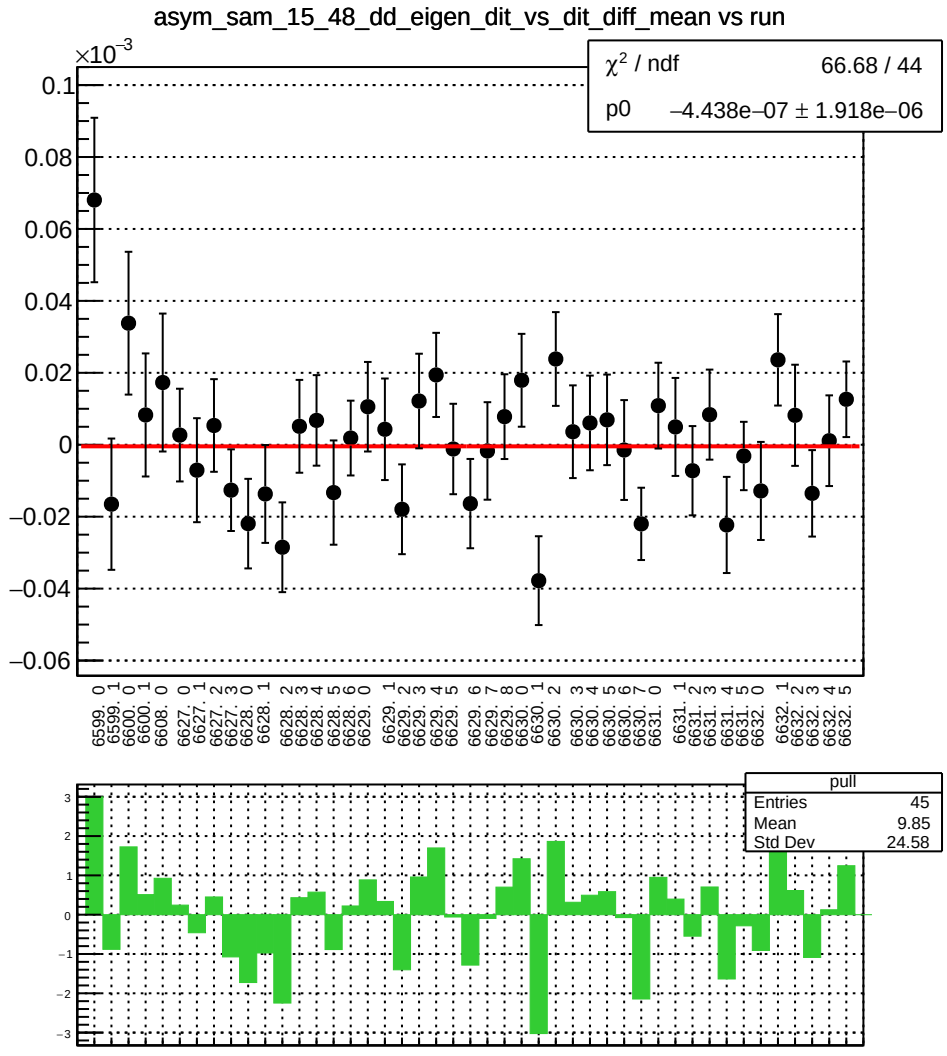

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 50.29 / 44
p0 0.1111± 0.04762
1
0.5
0
−0.5
−1
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 199.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

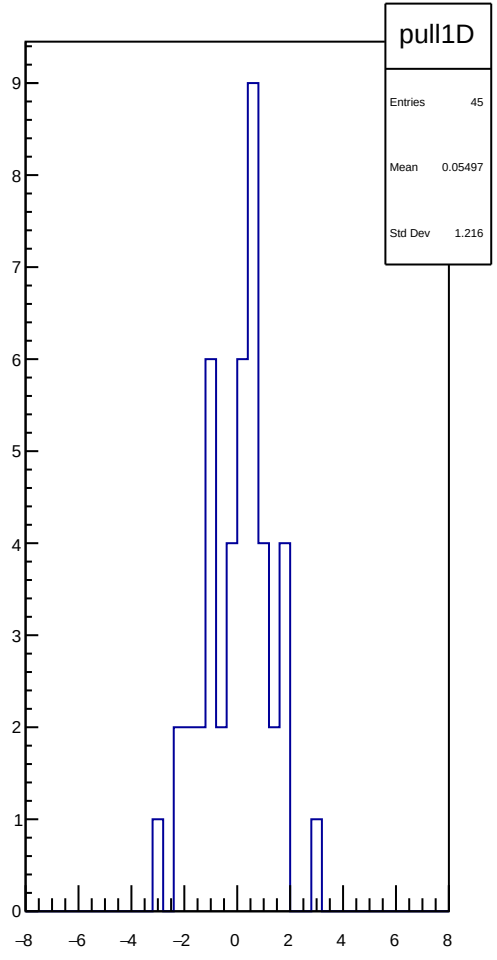

pull1D
Entries 45
Mean −0.006598
Std Dev 1.057
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

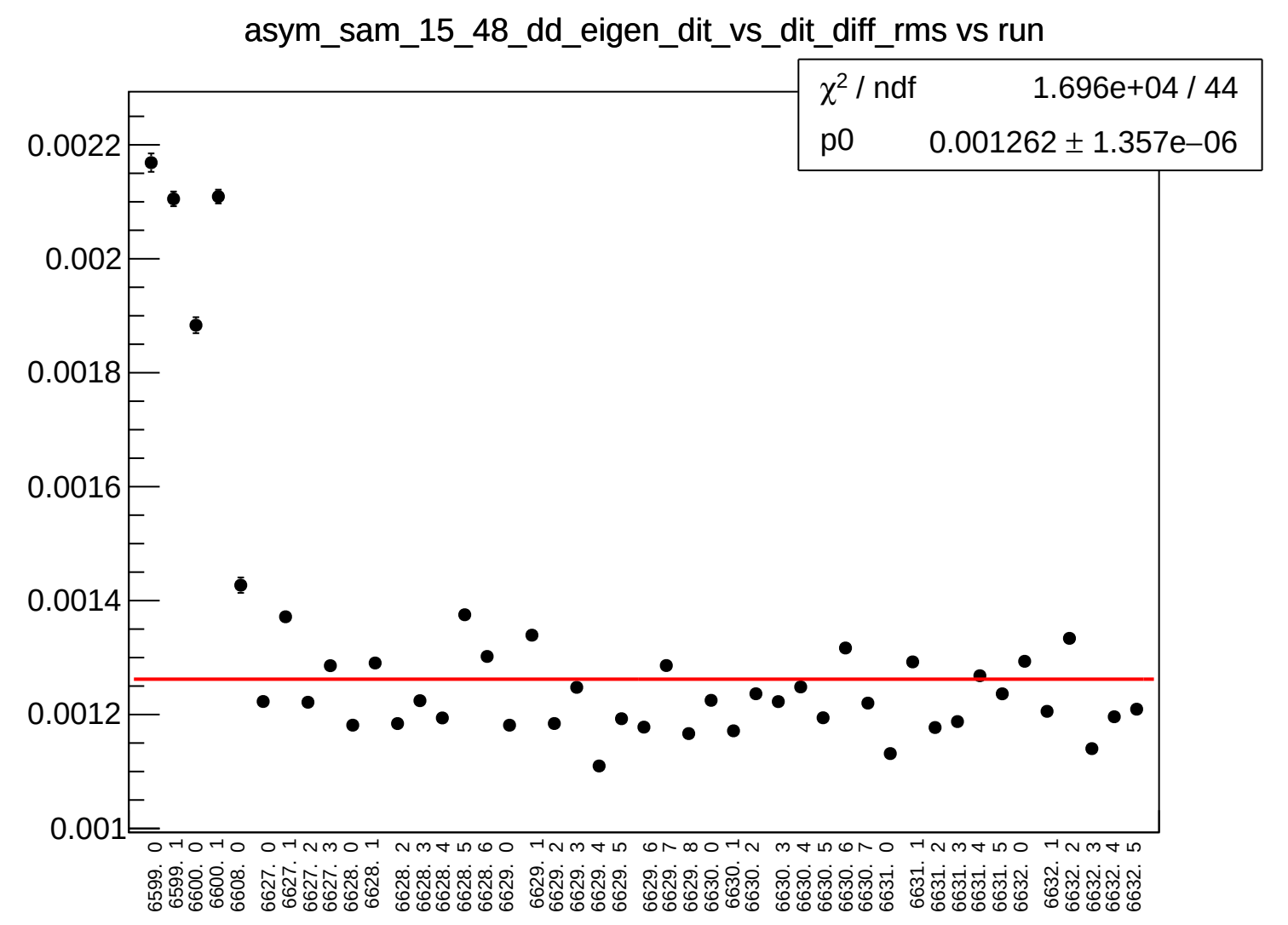

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7721 / 44
p0 31.49 ± 0.03367
44
42
40
38
36
34
32
30
28
26
24
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

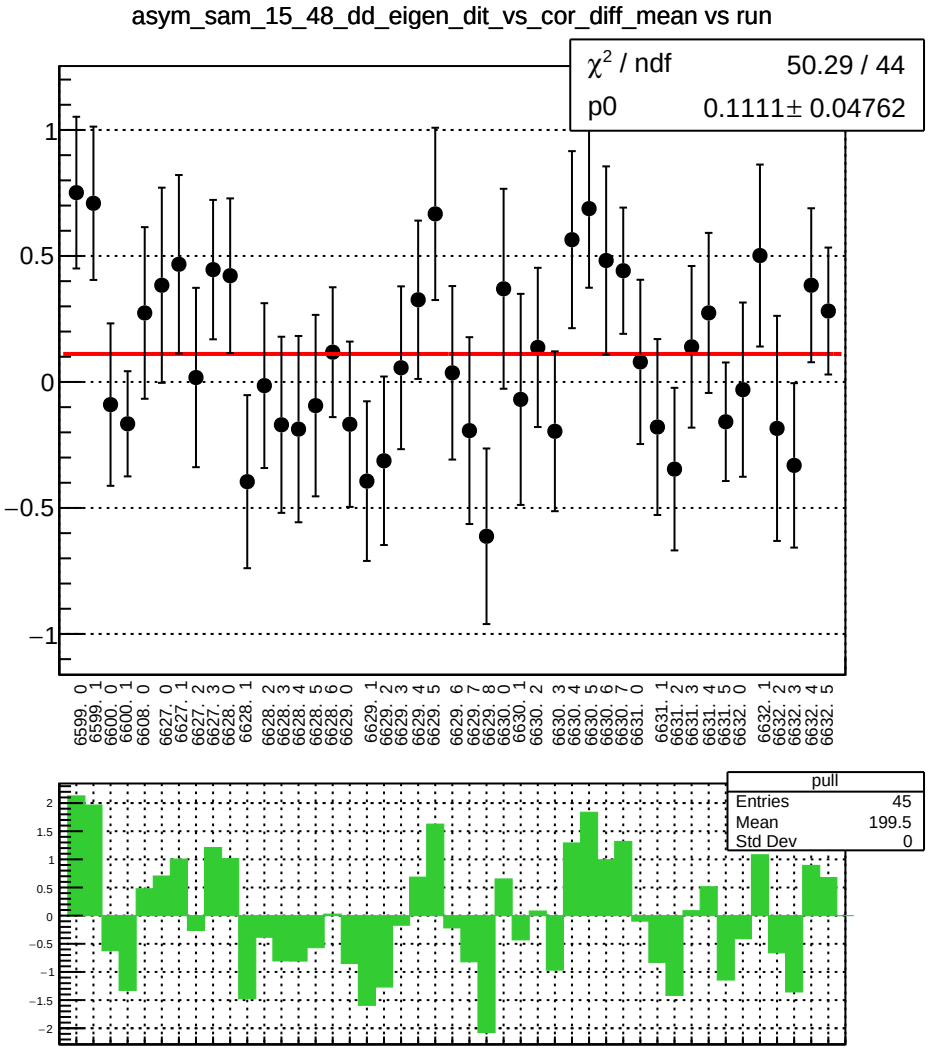

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.29 / 44
p0 0.1111± 0.04762
1
0.5
0
−0.5
−1
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 199.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.006598
Std Dev 1.057
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

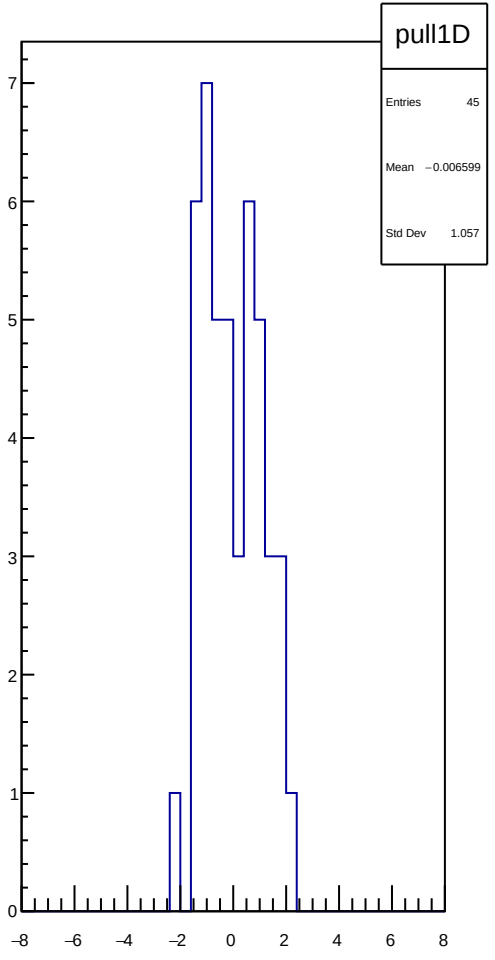

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7721 / 44
p0 31.49 ± 0.03367
44
42
40
38
36
34
32
30
28
26
24
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

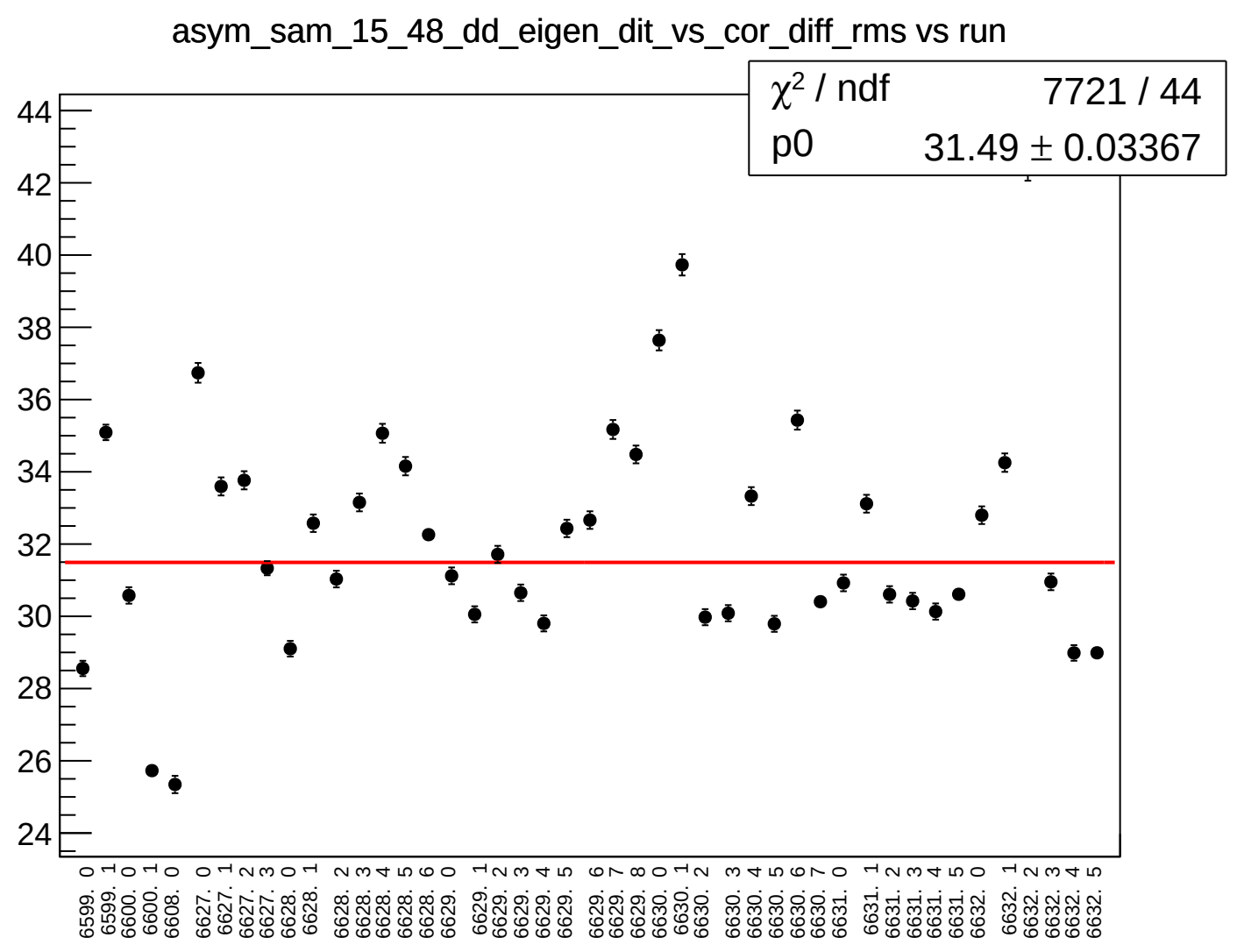

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 66.68 / 44
p0 −4.438e−07 ± 1.918e−06
pull
Entries 45
Mean 9.85
Std Dev 24.58


pull1D
Entries 45
Mean 0.05497
Std Dev 1.216


asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.696e+04 / 44
p0 0.001262 ± 1.357e−06
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 50.29 / 44
p0 0.1111± 0.04762
pull
Entries 45
Mean 199.5
Std Dev 0


pull1D
Entries 45
Mean −0.006599
Std Dev 1.057


asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7721 / 44
p0 31.49 ± 0.03367
44
42
40
38
36
34
32
30
28
26
24
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
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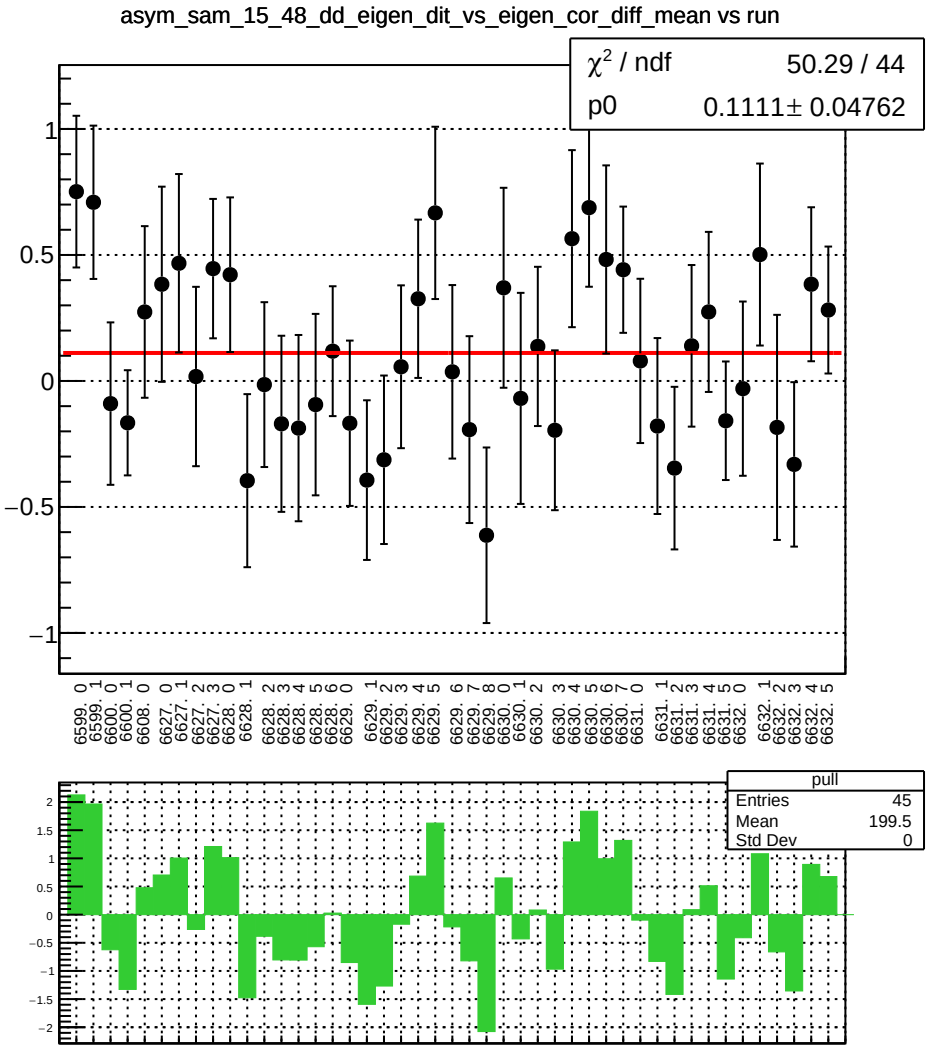
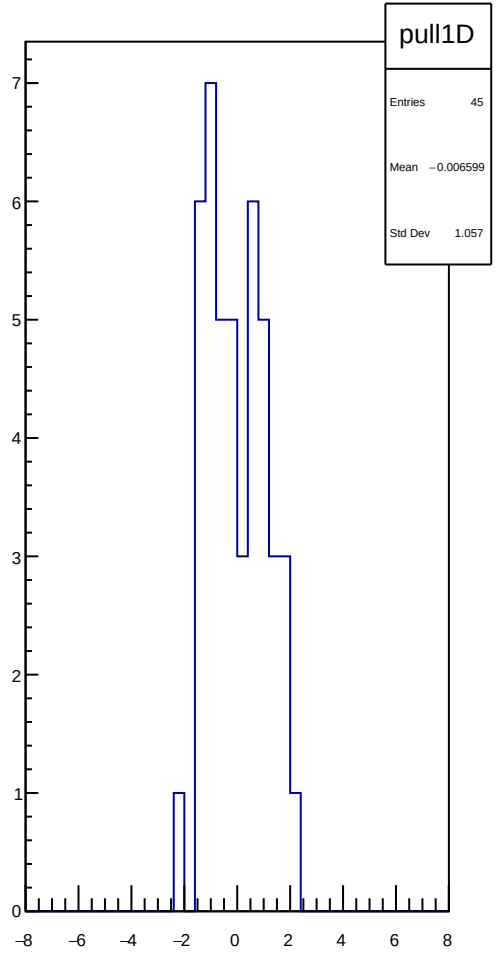
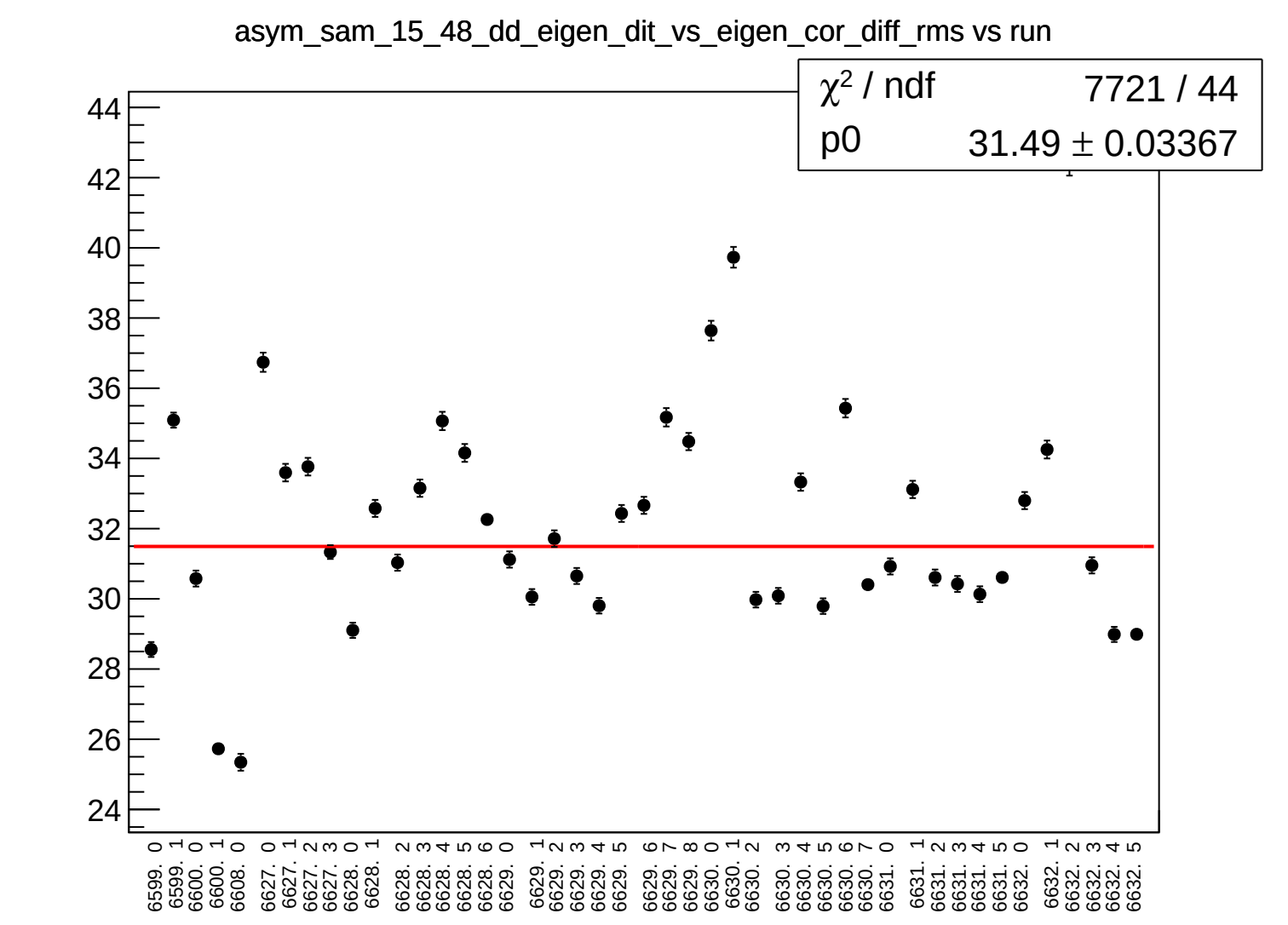
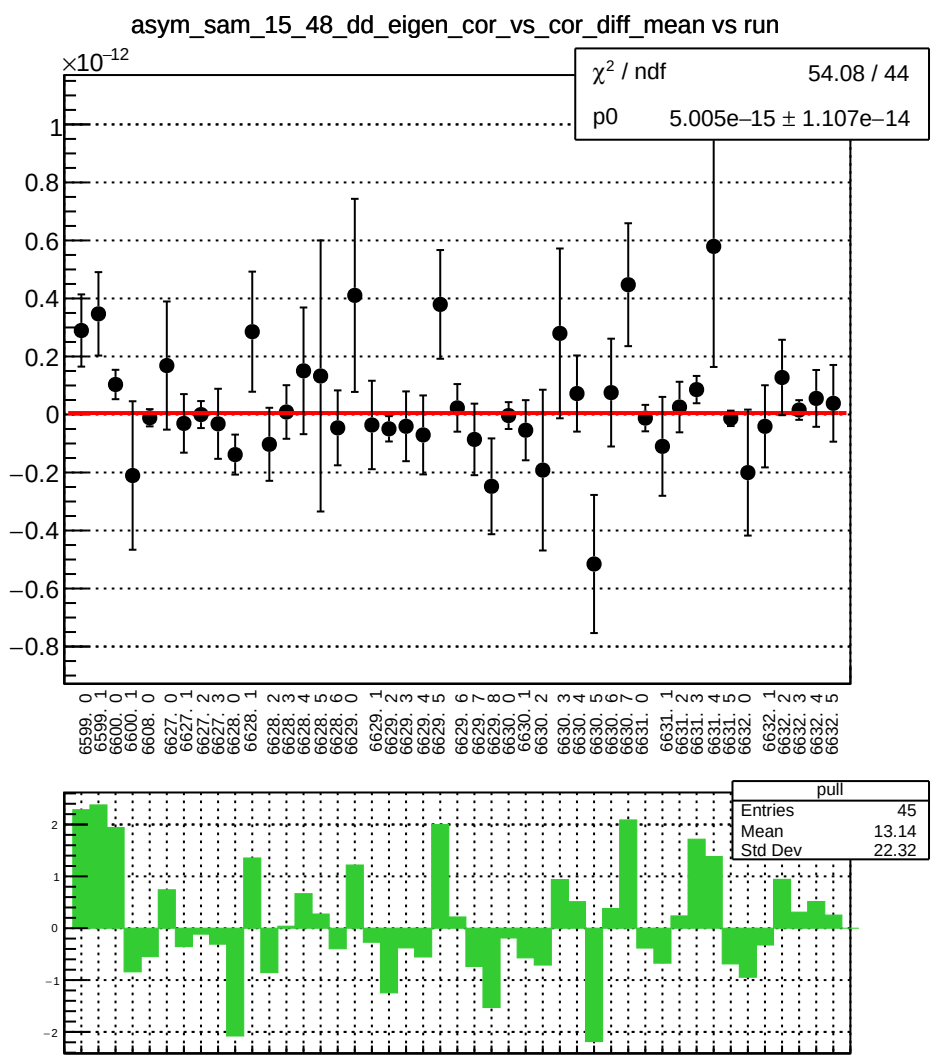
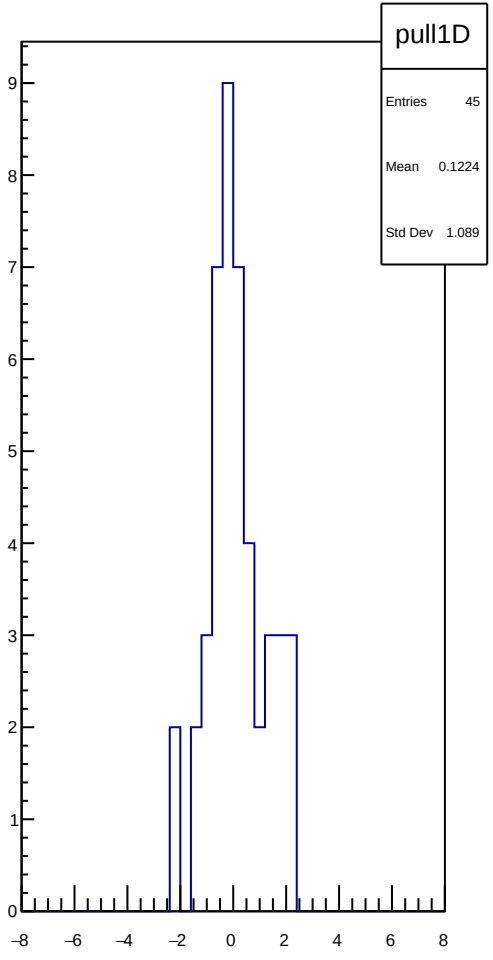
6632. 4
6632. 5

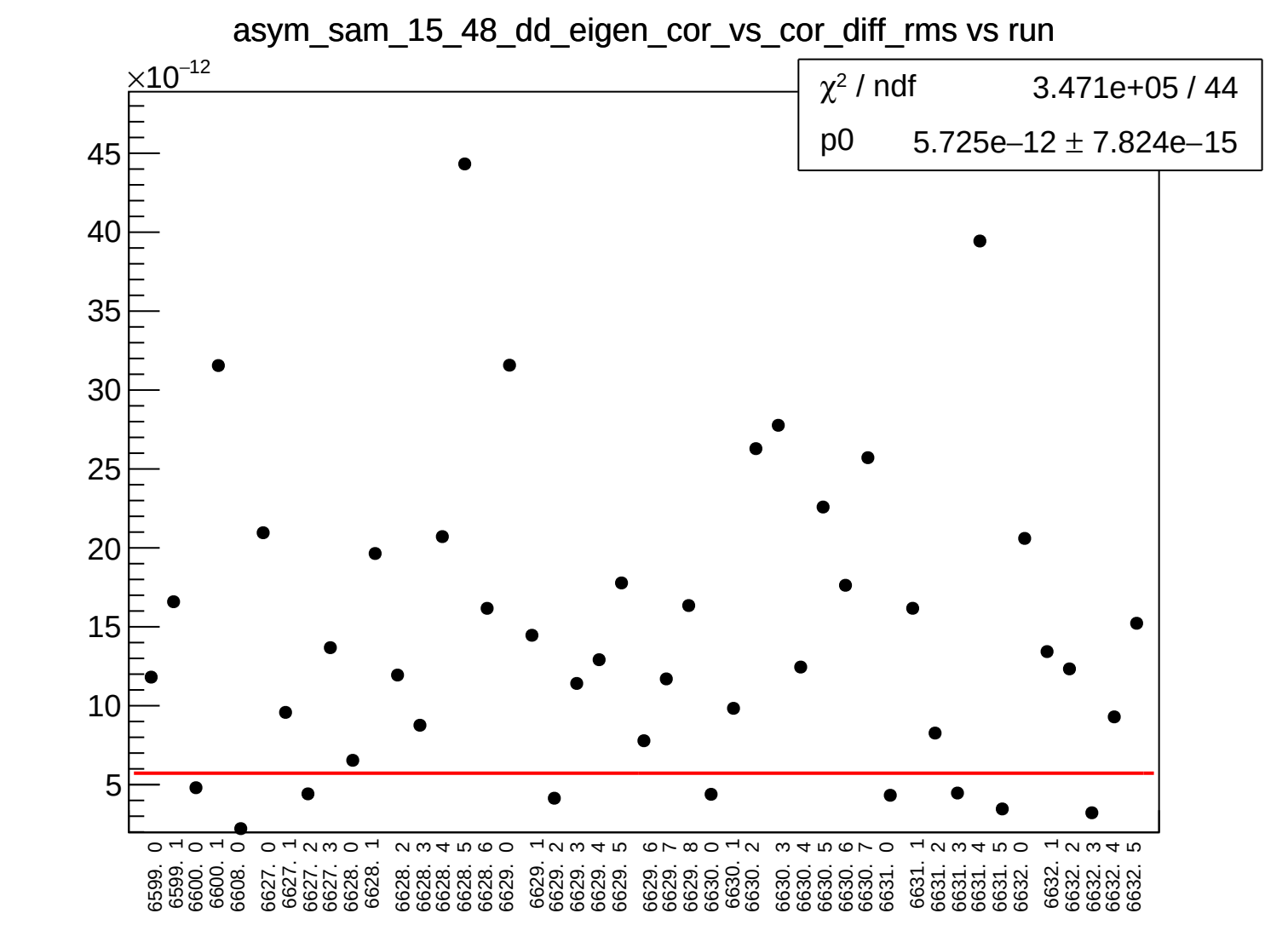

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.29 / 44
p0 0.1111± 0.04762
pull
Entries 45
Mean 199.5
Std Dev 0

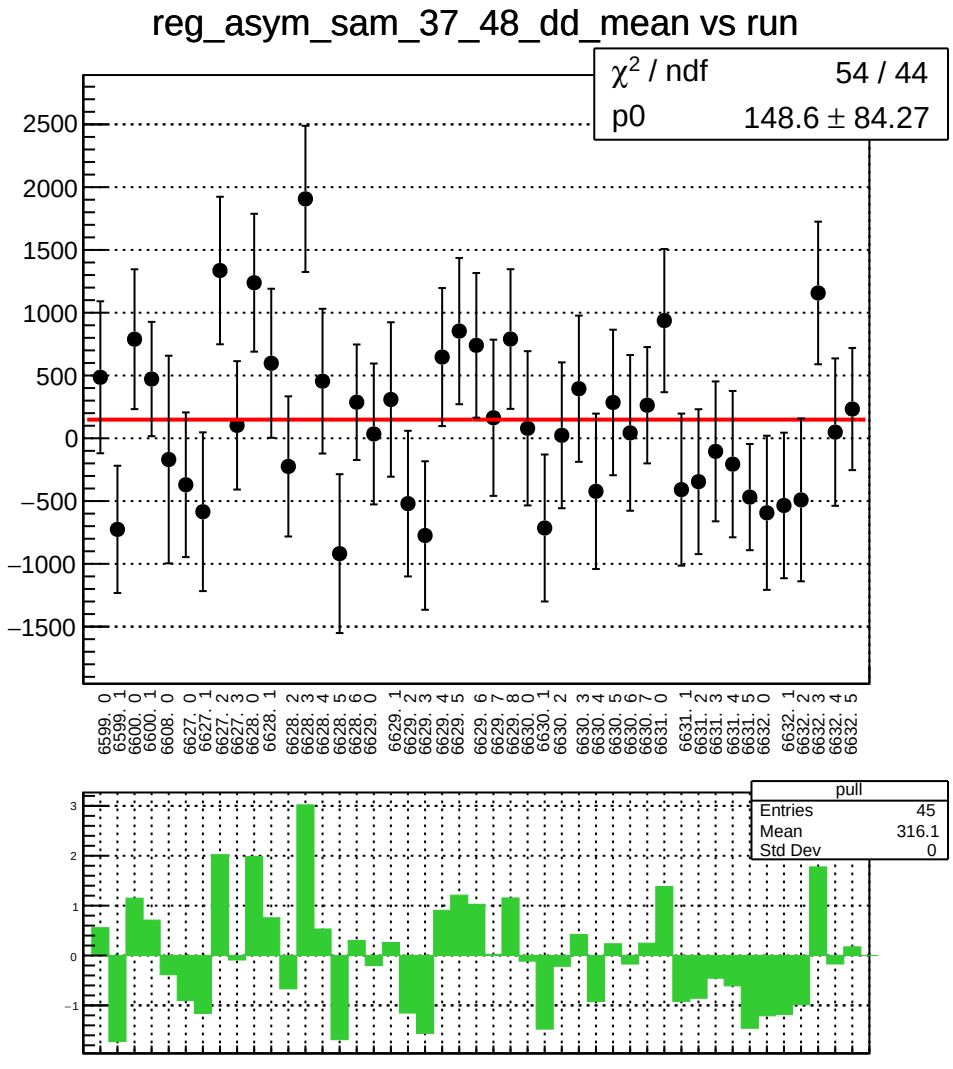

pull1D
Entries 45
Mean −0.006599
Std Dev 1.057


asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7721 / 44
p0 31.49 ± 0.03367
44
42
40
38
36
34
32
30
28
26
24
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 54.08 / 44
p0 5.005e−15 ± 1.107e−14
pull
Entries 45
Mean 13.14
Std Dev 22.32


pull1D
Entries 45
Mean 0.1224
Std Dev 1.089


asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.471e+05 / 44
p0 5.725e−12 ± 7.824e−15
45
40
35
30
25
20
15
10
5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 54 / 44
p0 148.6 ± 84.27
2500
2000
1500
1000
500
0
−500
−1000
−1500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6628. 4
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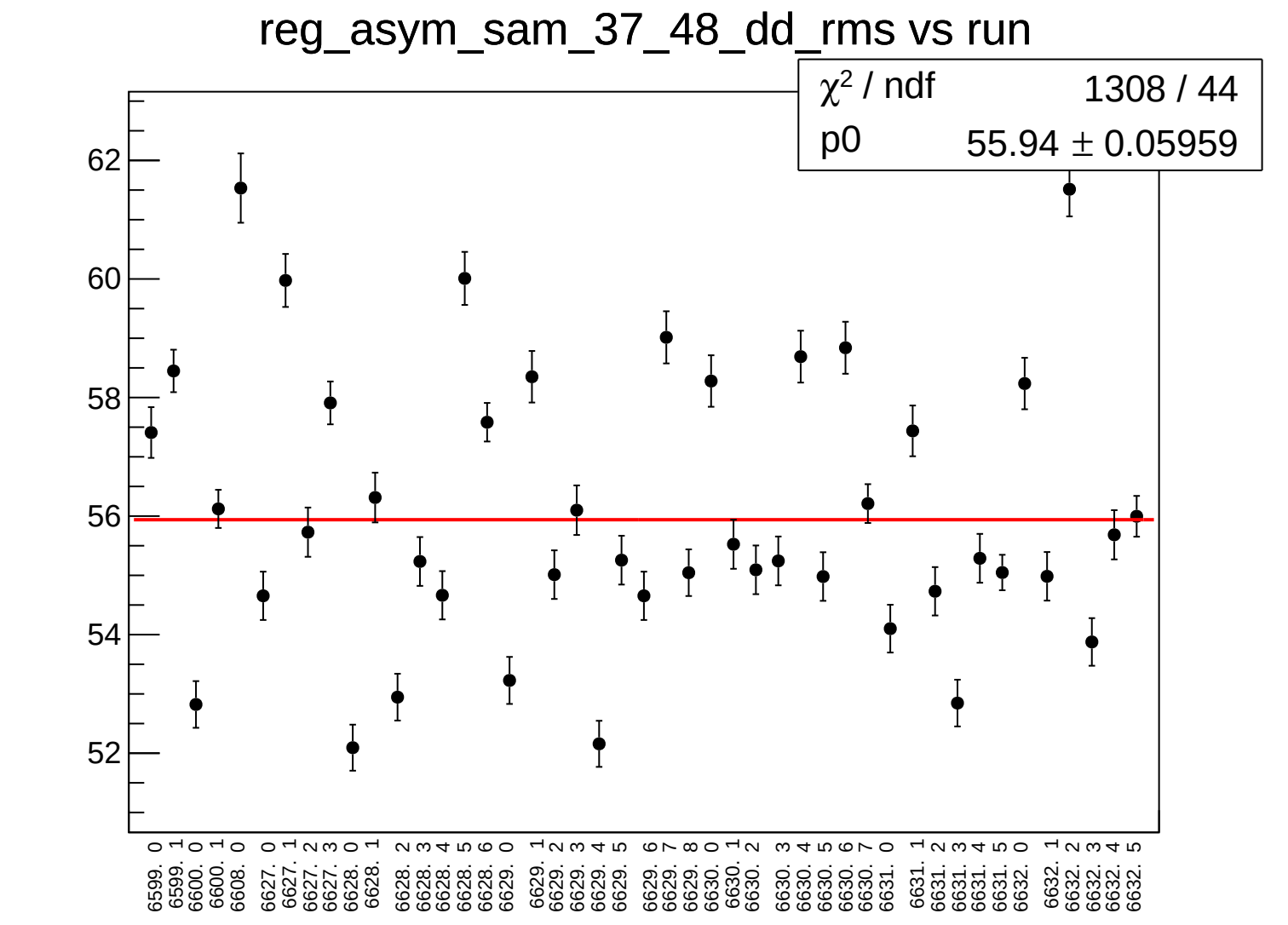
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 316.1
Std Dev 0
3
2
1
0
−1
pull1D
Entries 45
Mean −0.009259
Std Dev 1.095
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 1308 / 44
p0 55.94 ± 0.05959
62
60
58
56
54
52
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
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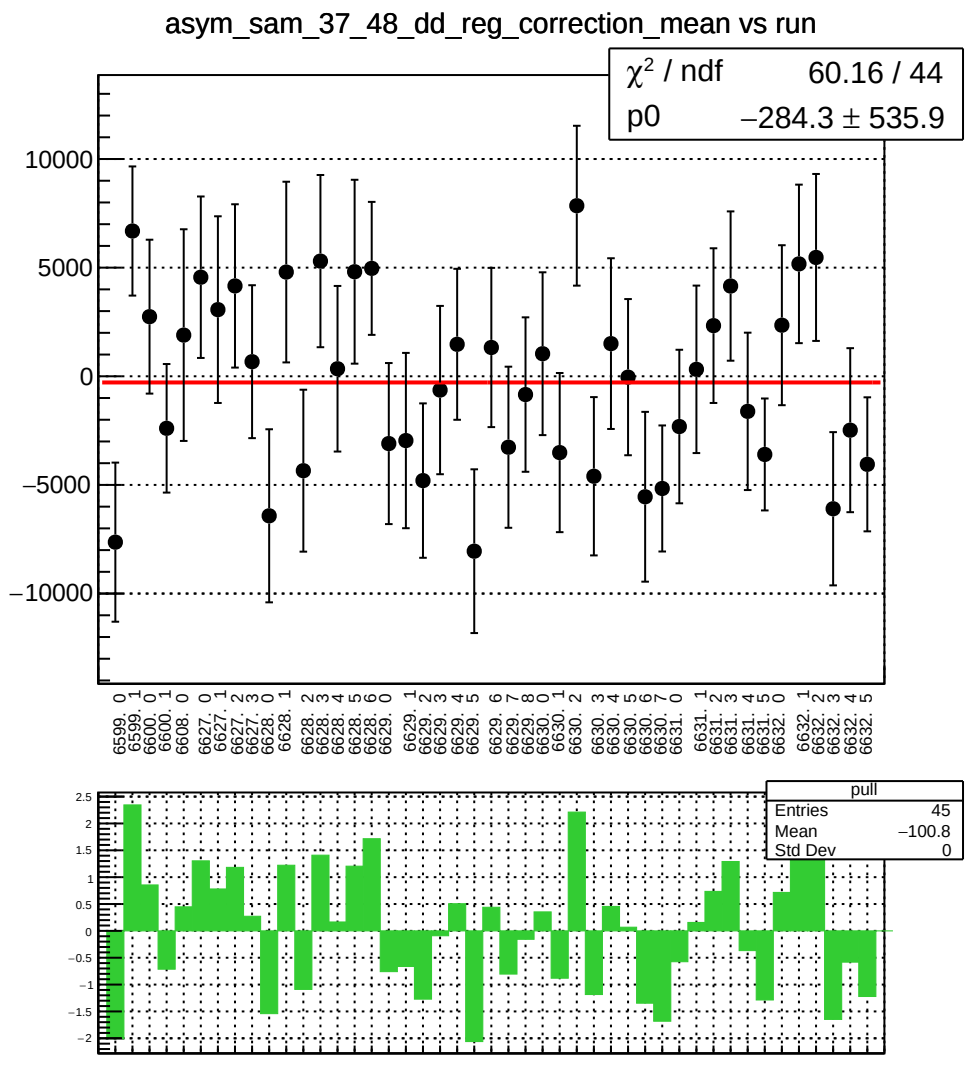
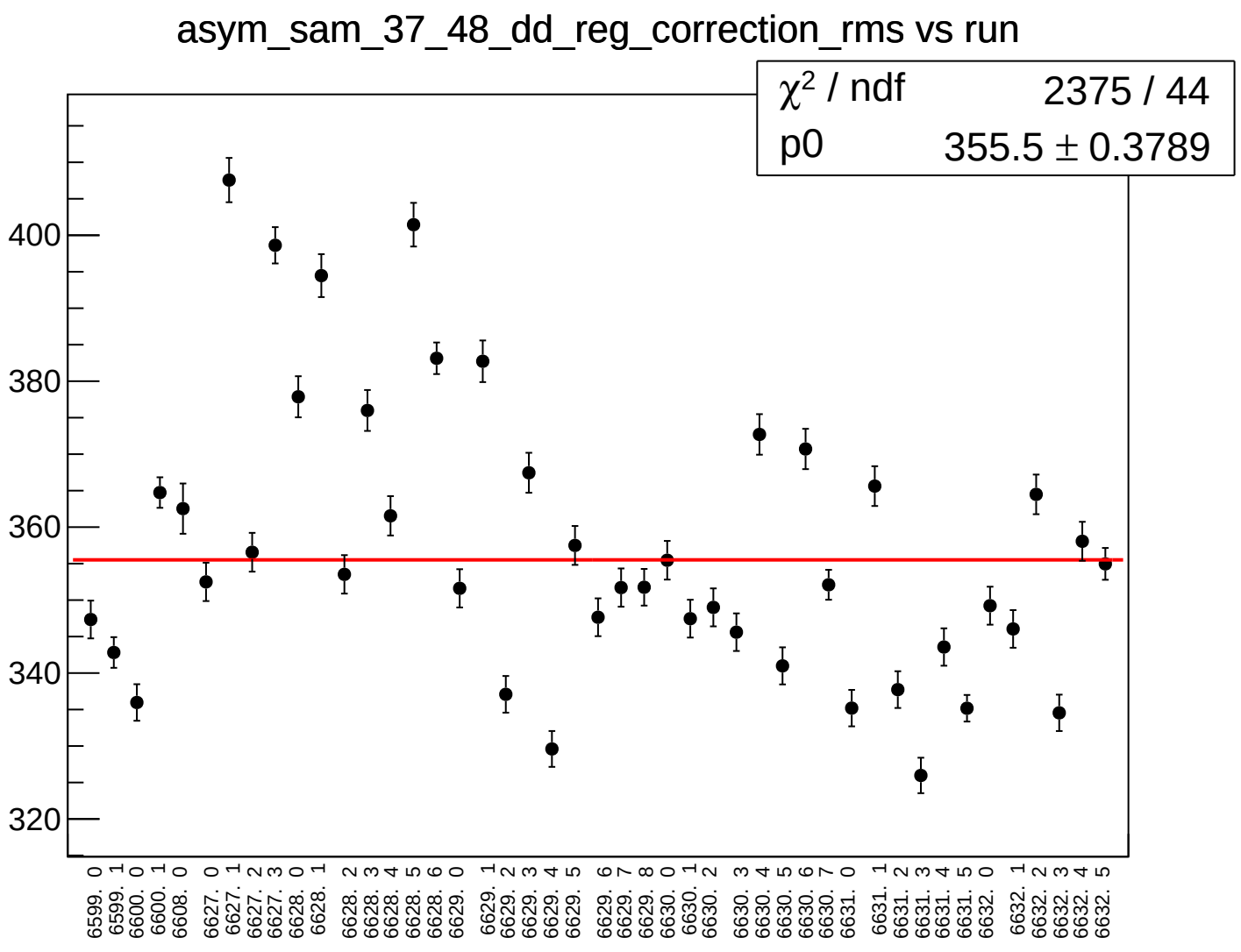
6632. 4
6632. 5


asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 60.16 / 44
p0 −284.3 ± 535.9
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −100.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01996
Std Dev 1.156
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 2375 / 44
p0 355.5 ± 0.3789
400
380
360
340
320
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
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6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
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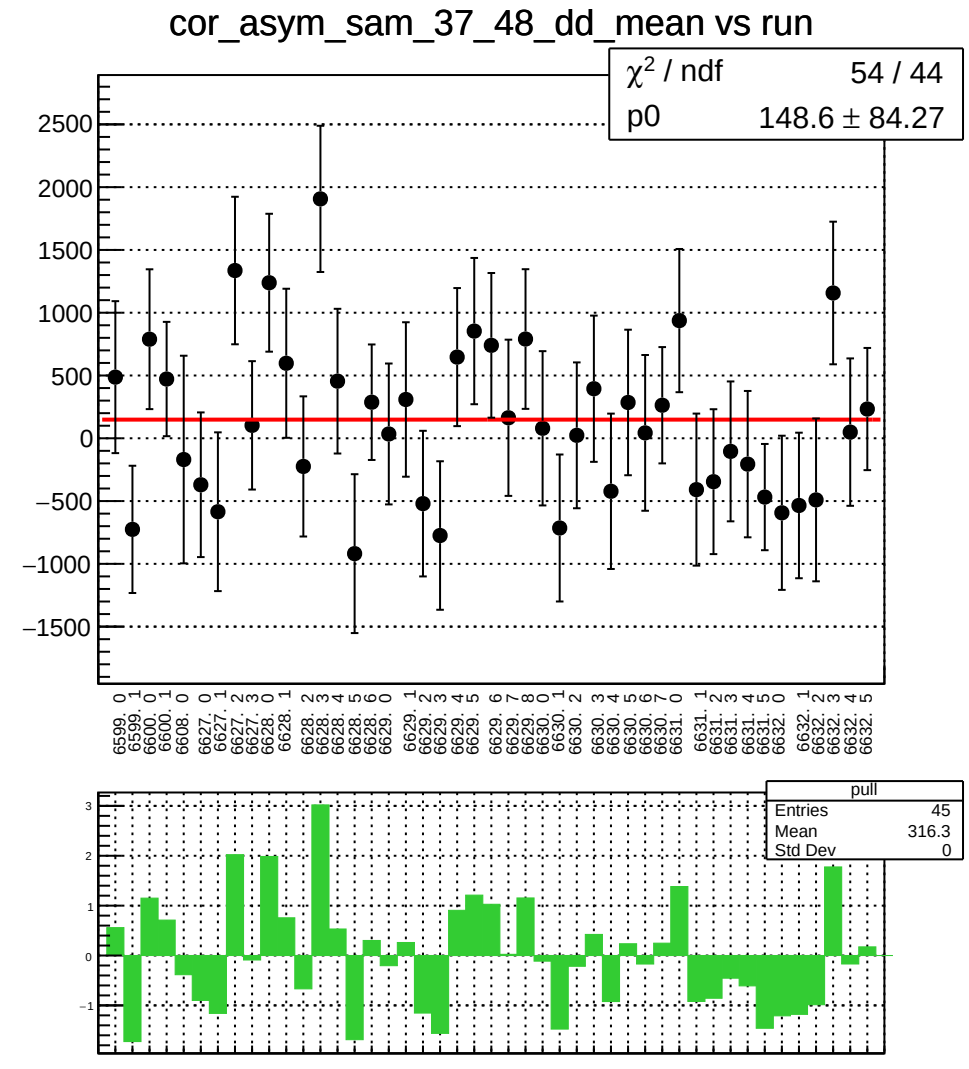
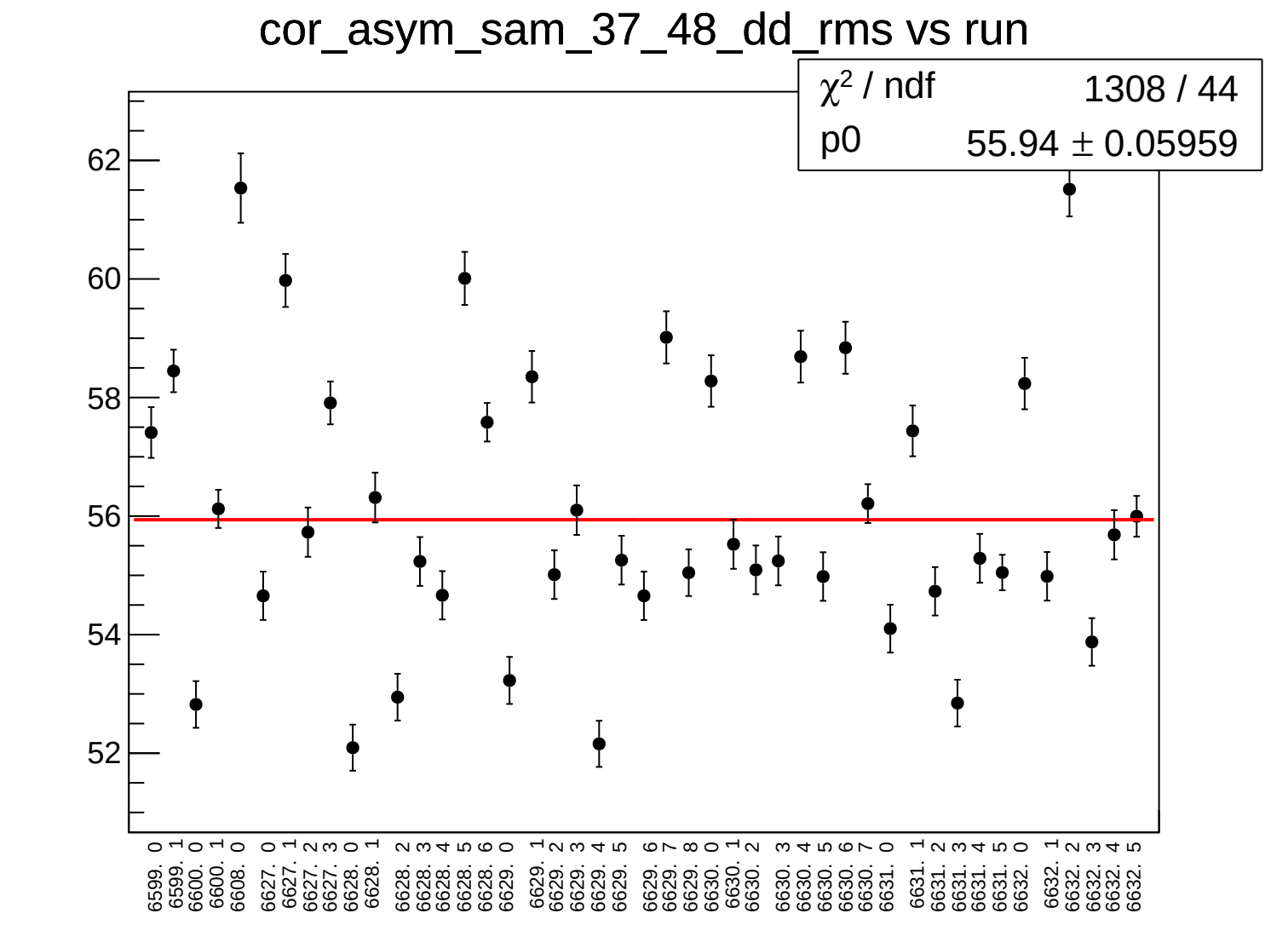
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 54 / 44
p0 148.6 ± 84.27
2500
2000
1500
1000
500
0
−500
−1000
−1500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 316.3
Std Dev 0
3
2
1
0
−1
pull1D
Entries 45
Mean −0.009256
Std Dev 1.095
8
7
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 1308 / 44
p0 55.94 ± 0.05959
62
60
58
56
54
52
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
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6629. 2
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6629. 6
6629. 7
6629. 8
6630. 0
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6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
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6632. 2
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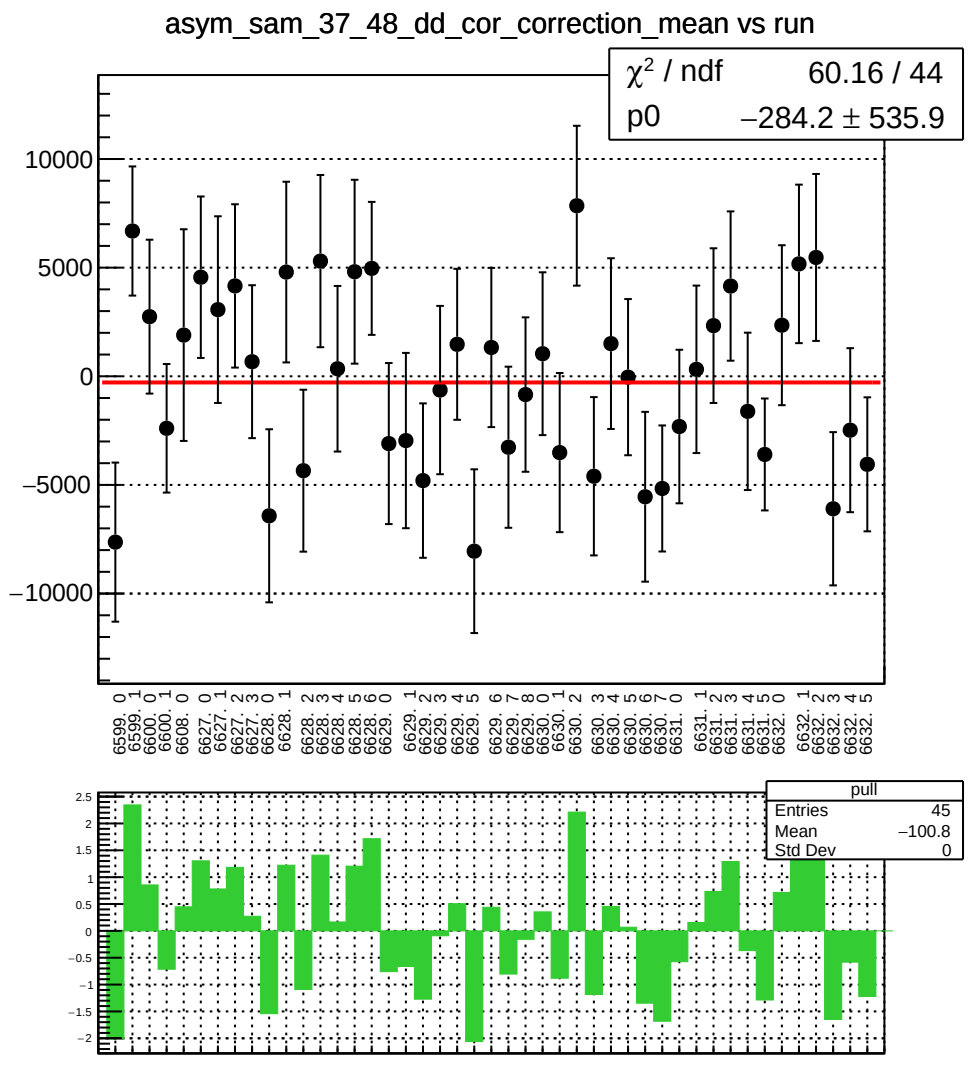
6632. 4
6632. 5


asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 60.16 / 44
p0 −284.2 ± 535.9
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
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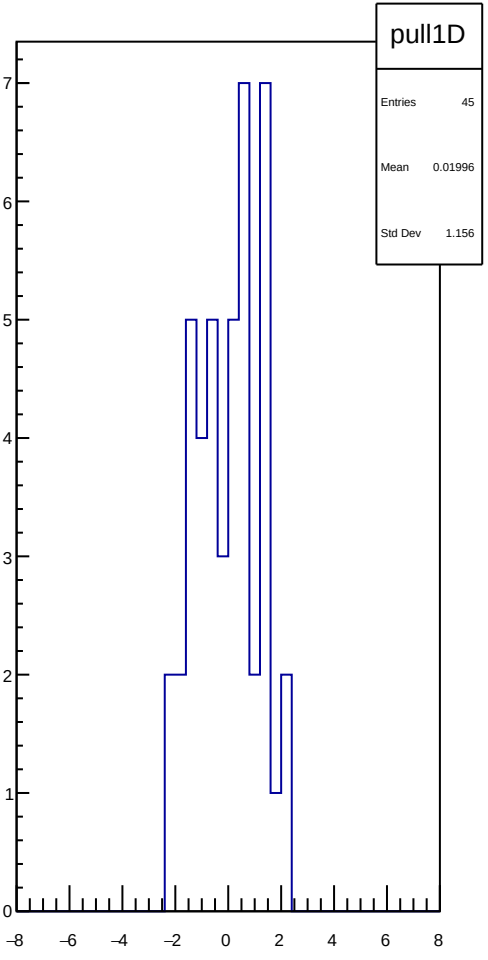
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −100.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.01996
Std Dev 1.156
7
6
5
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1
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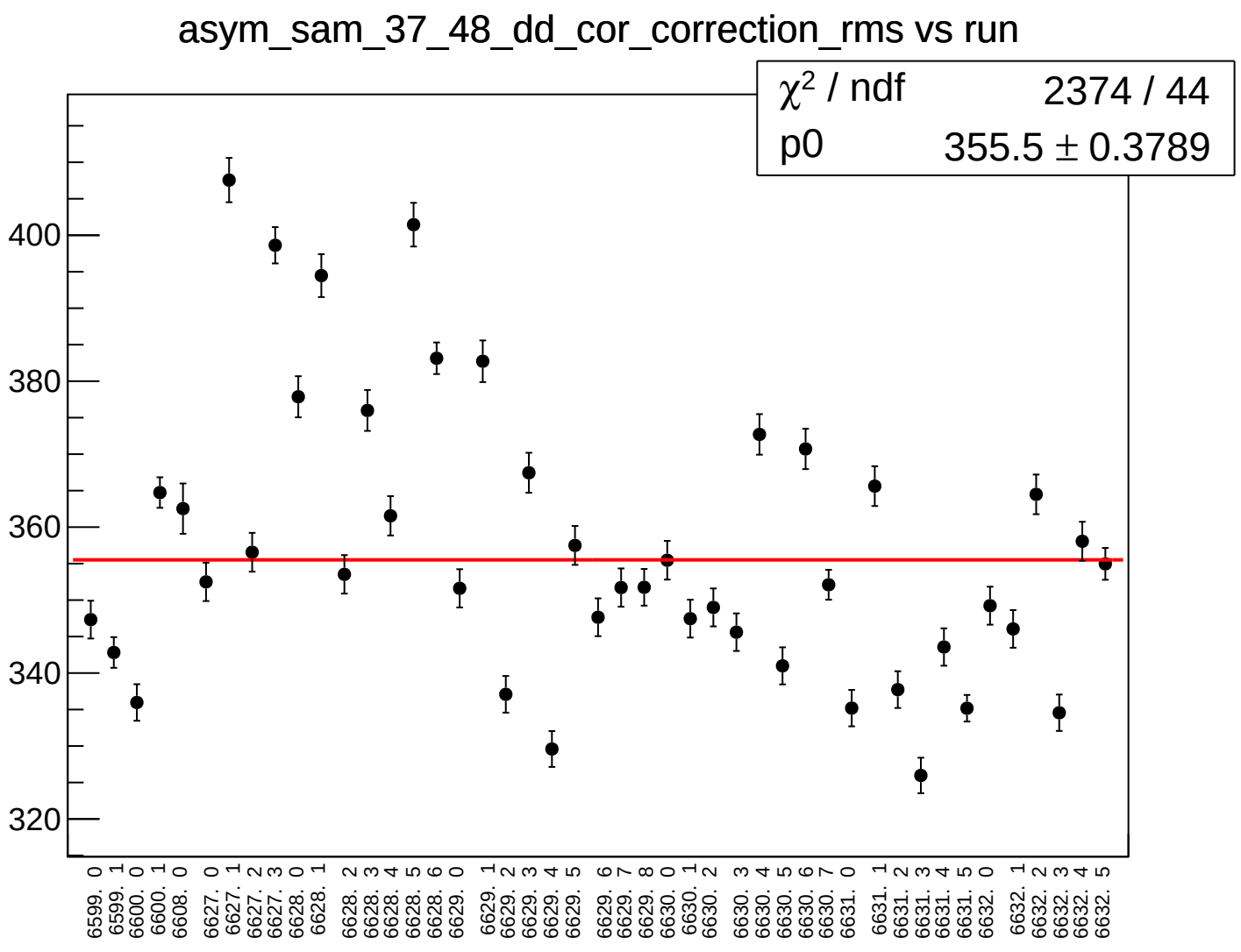
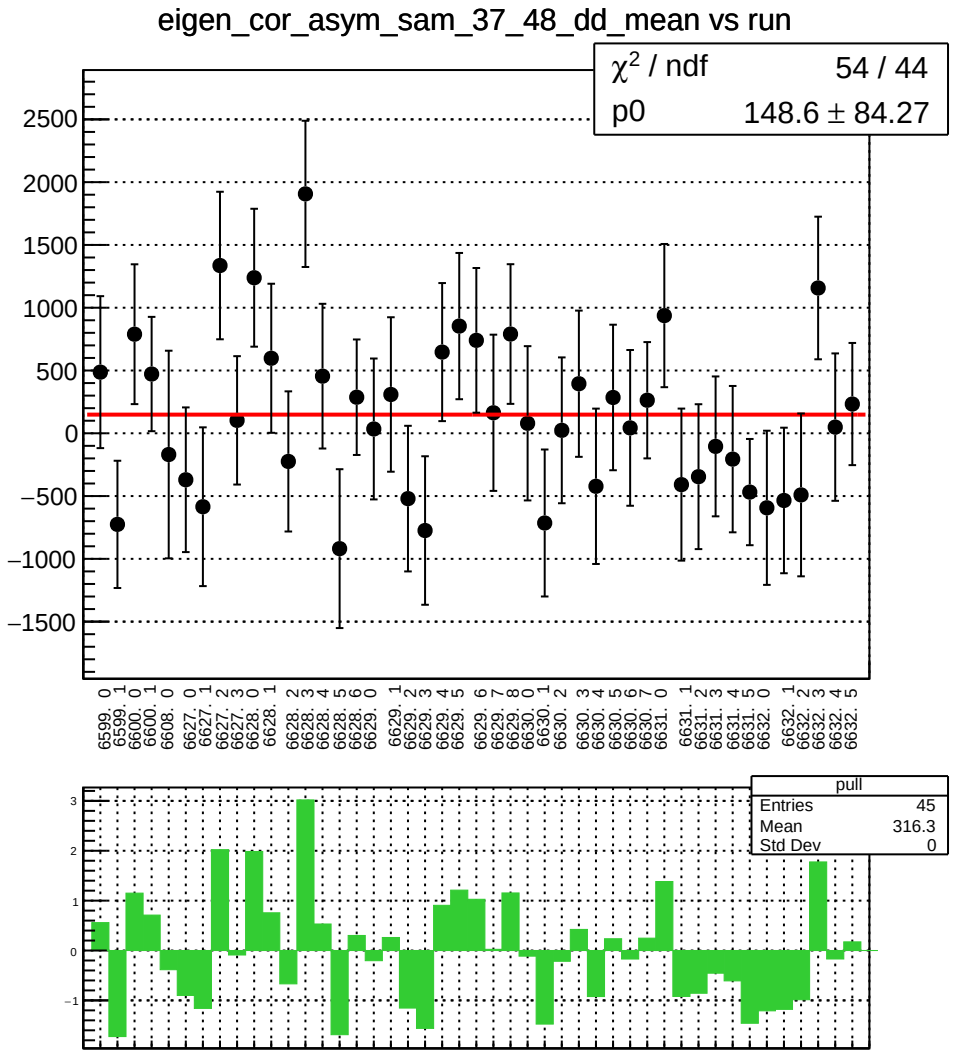
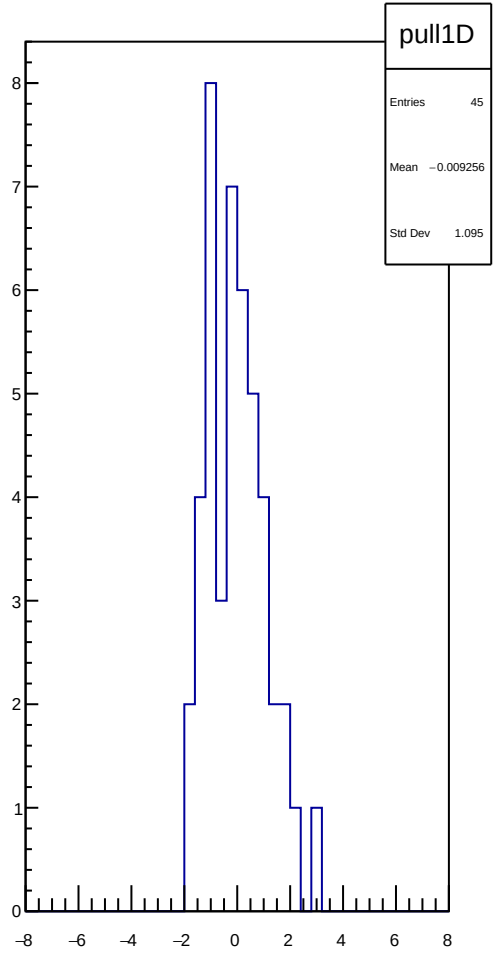
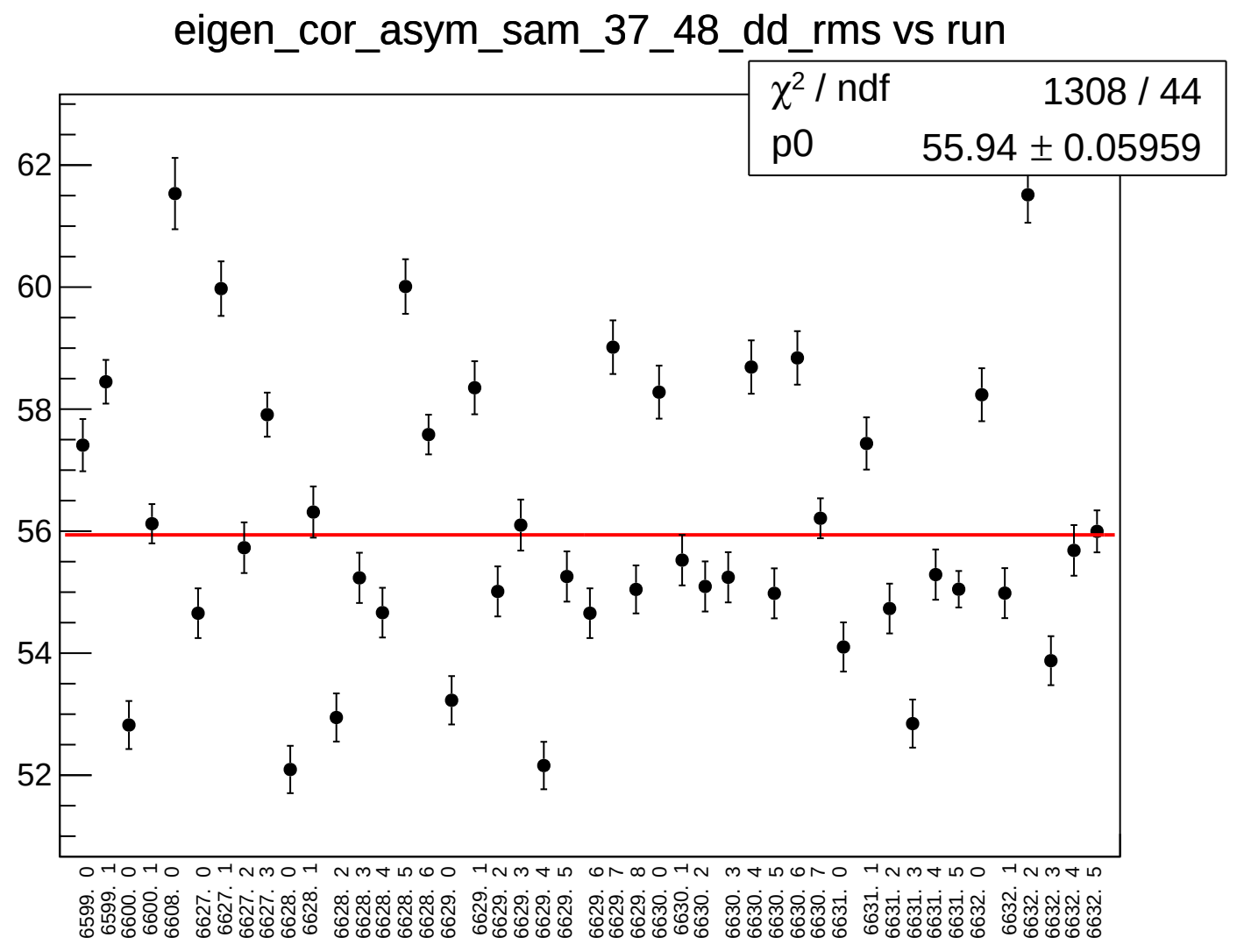
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 2374 / 44
p0 355.5 ± 0.3789
400
380
360
340
320
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 54 / 44
p0 148.6 ± 84.27
pull
Entries 45
Mean 316.3
Std Dev 0


pull1D
Entries 45
Mean −0.009256
Std Dev 1.095


eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 1308 / 44
p0 55.94 ± 0.05959
62
60
58
56
54
52
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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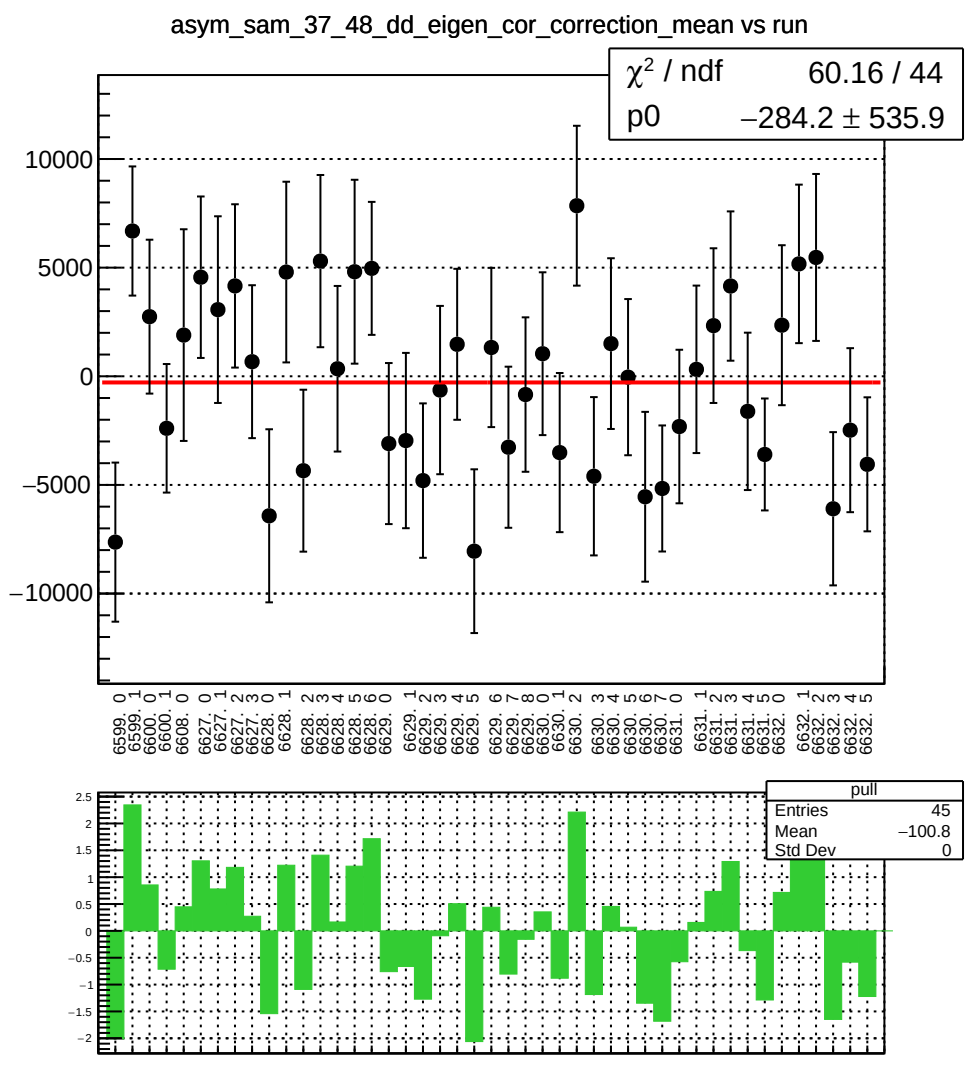
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 60.16 / 44
p0 −284.2 ± 535.9
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6629. 6
6629. 7
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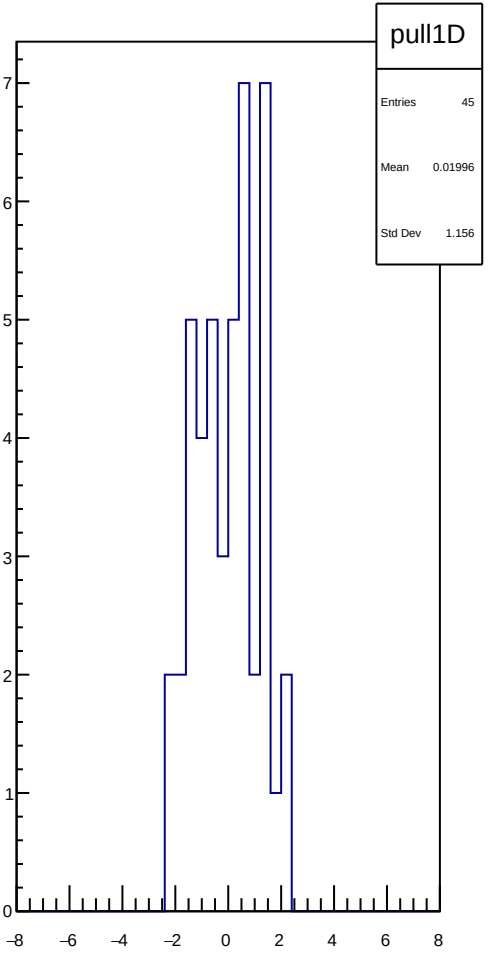
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −100.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.01996
Std Dev 1.156
7
6
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0
−8
−6
−4
−2
0
2
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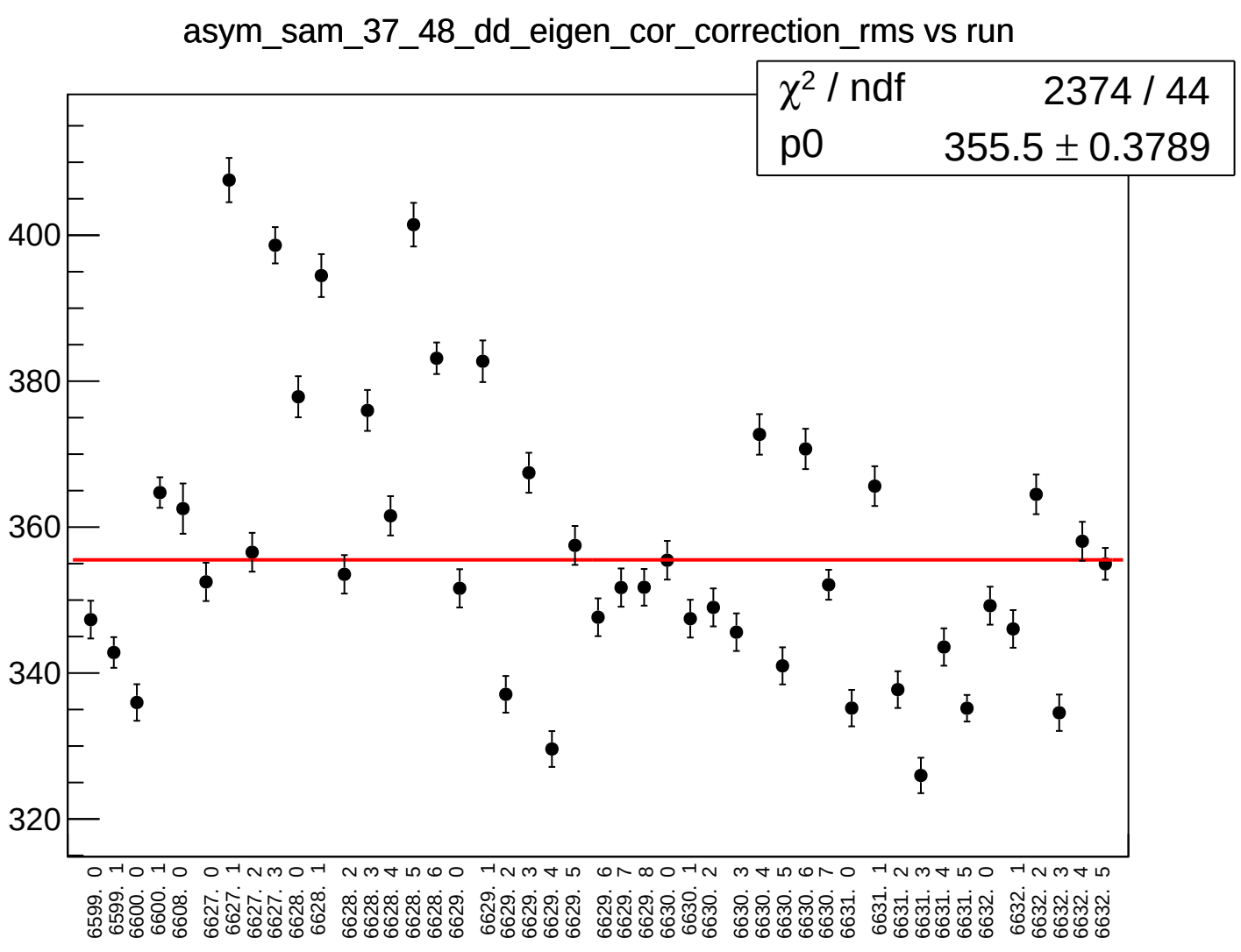
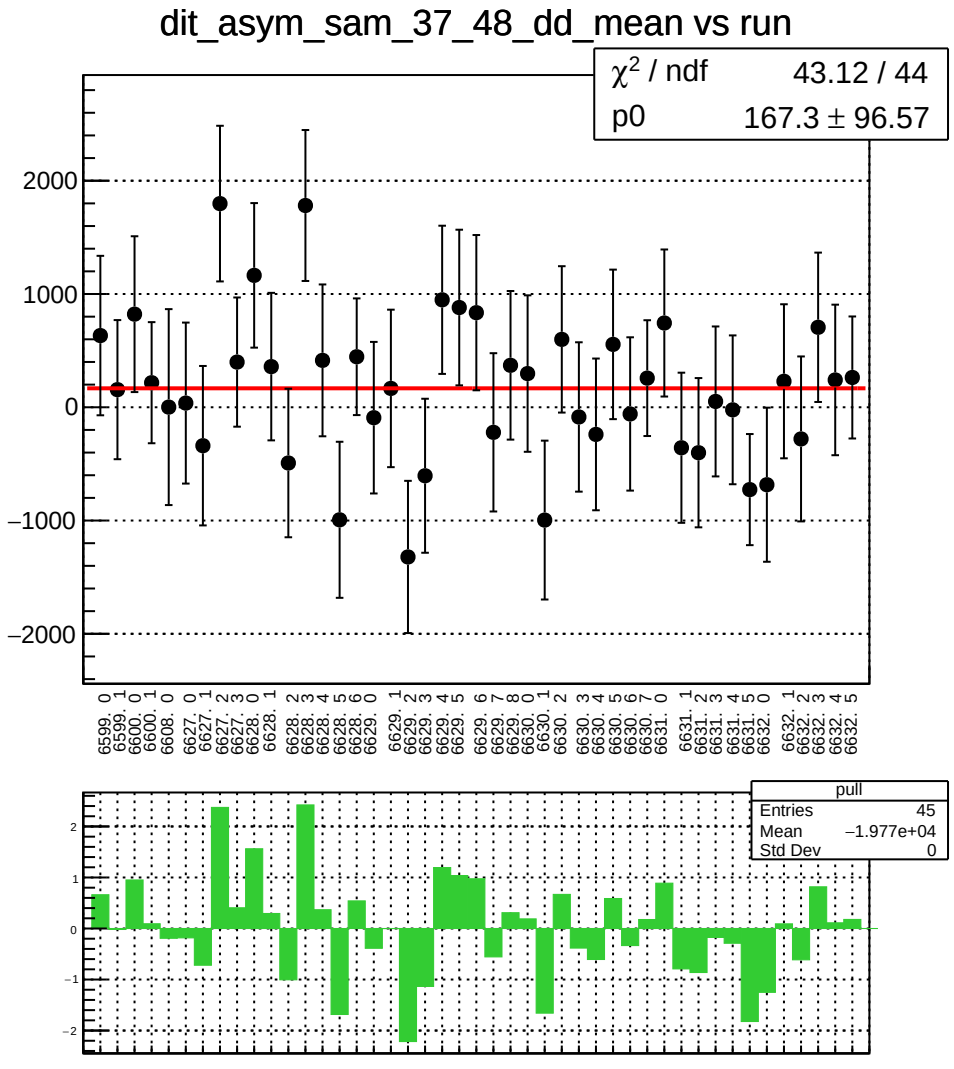
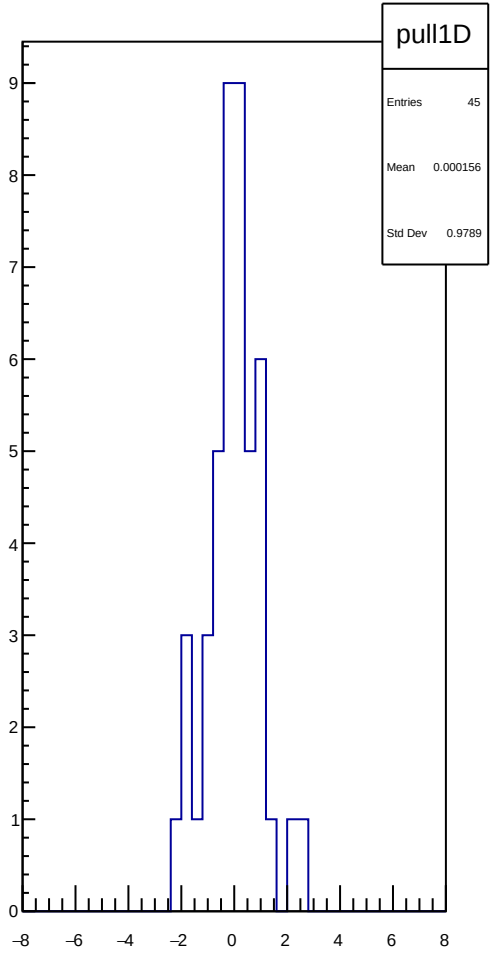
6
8


asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2374 / 44
p0 355.5 ± 0.3789
400
380
360
340
320
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 43.12 / 44
p0 167.3 ± 96.57
2000
1000
0
−1000
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −1.977e+04
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.000156
Std Dev 0.9789
9
8
7
6
5
4
3
2
1
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−8
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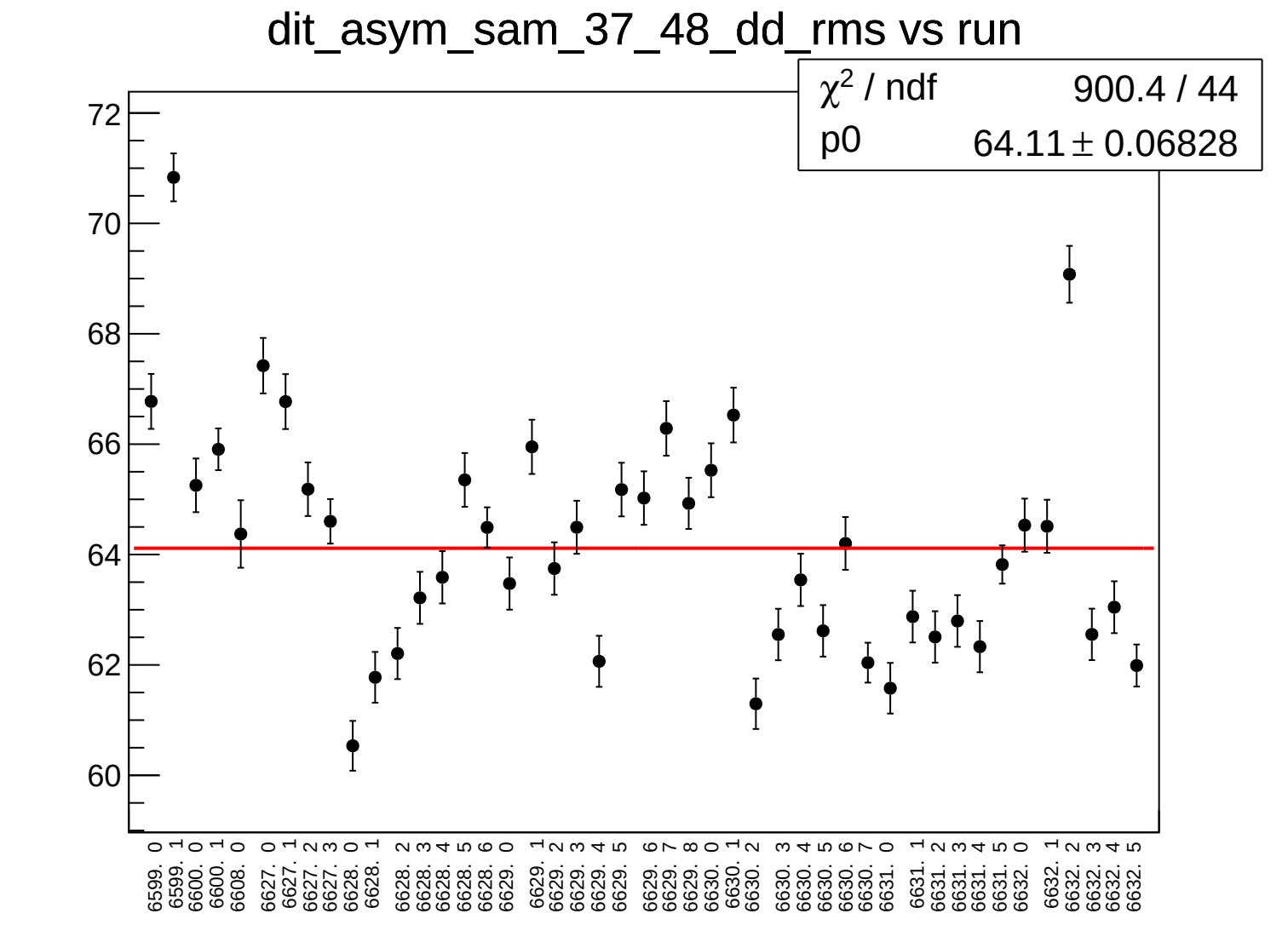
−4
−2
0
2
4
6
8


dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 900.4 / 44
p0 64.11 ± 0.06828
72
70
68
66
64
62
60
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
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6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
6631. 5
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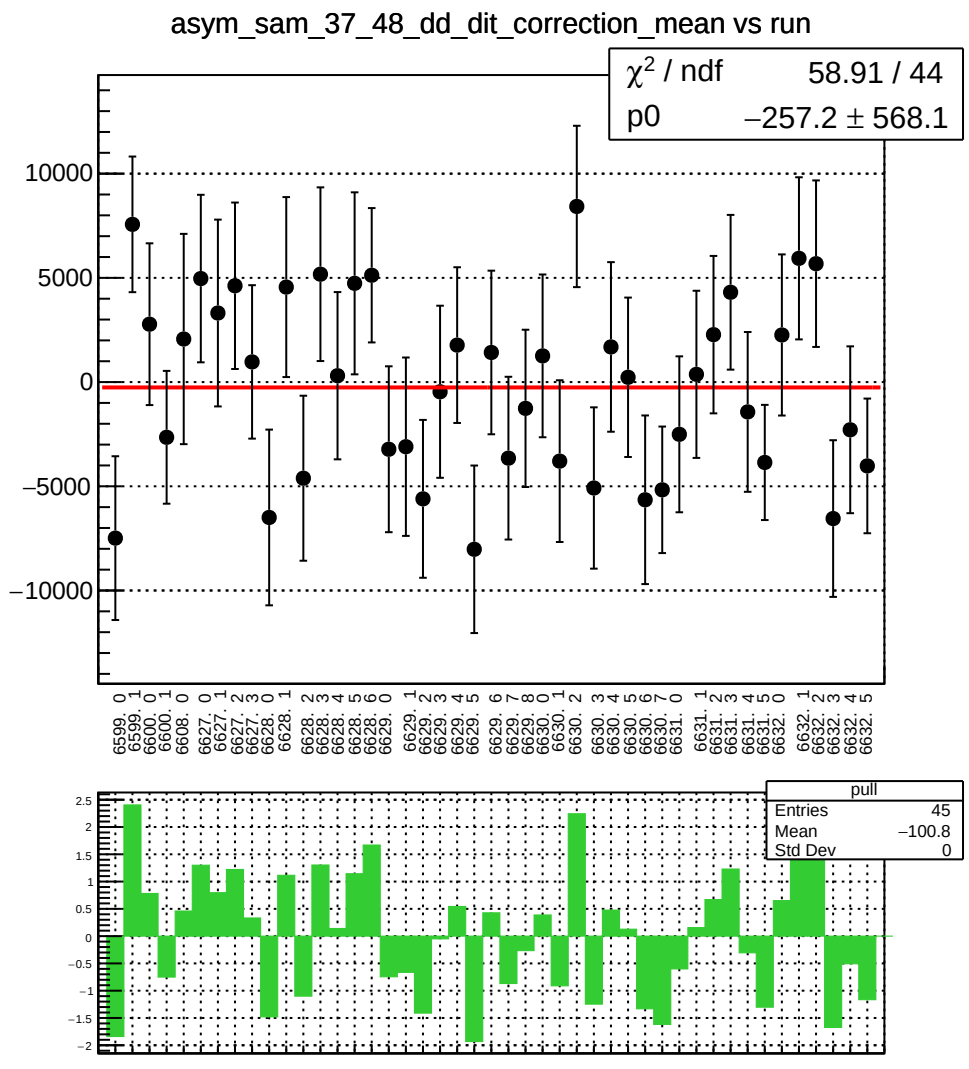
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 58.91 / 44
p0 −257.2 ± 568.1
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −100.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01987
Std Dev 1.144
8
7
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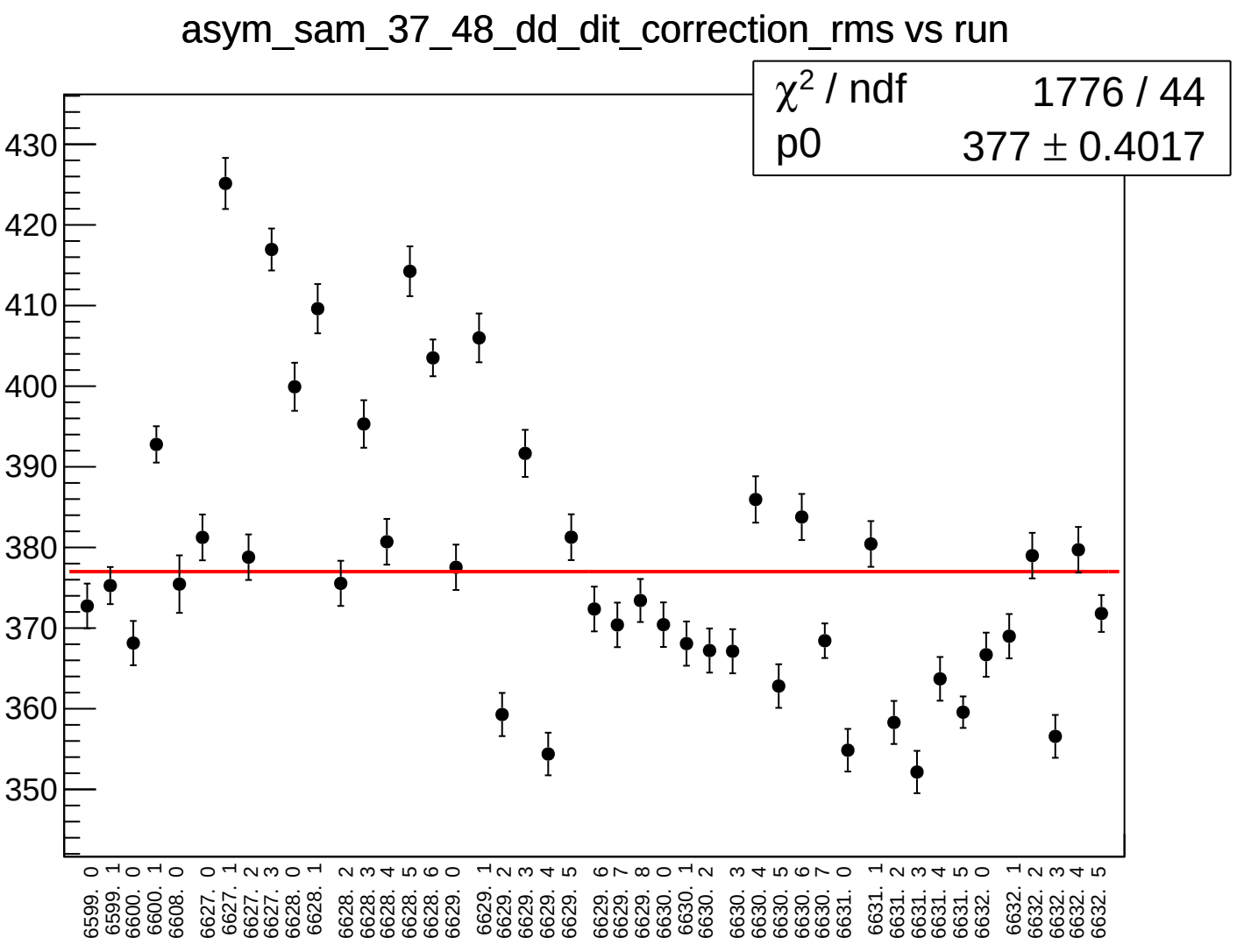
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_48_dd_dit_correction_rms vs run
$\chi^2$ / ndf 1776 / 44
p0 377 ± 0.4017
430
420
410
400
390
380
370
360
350
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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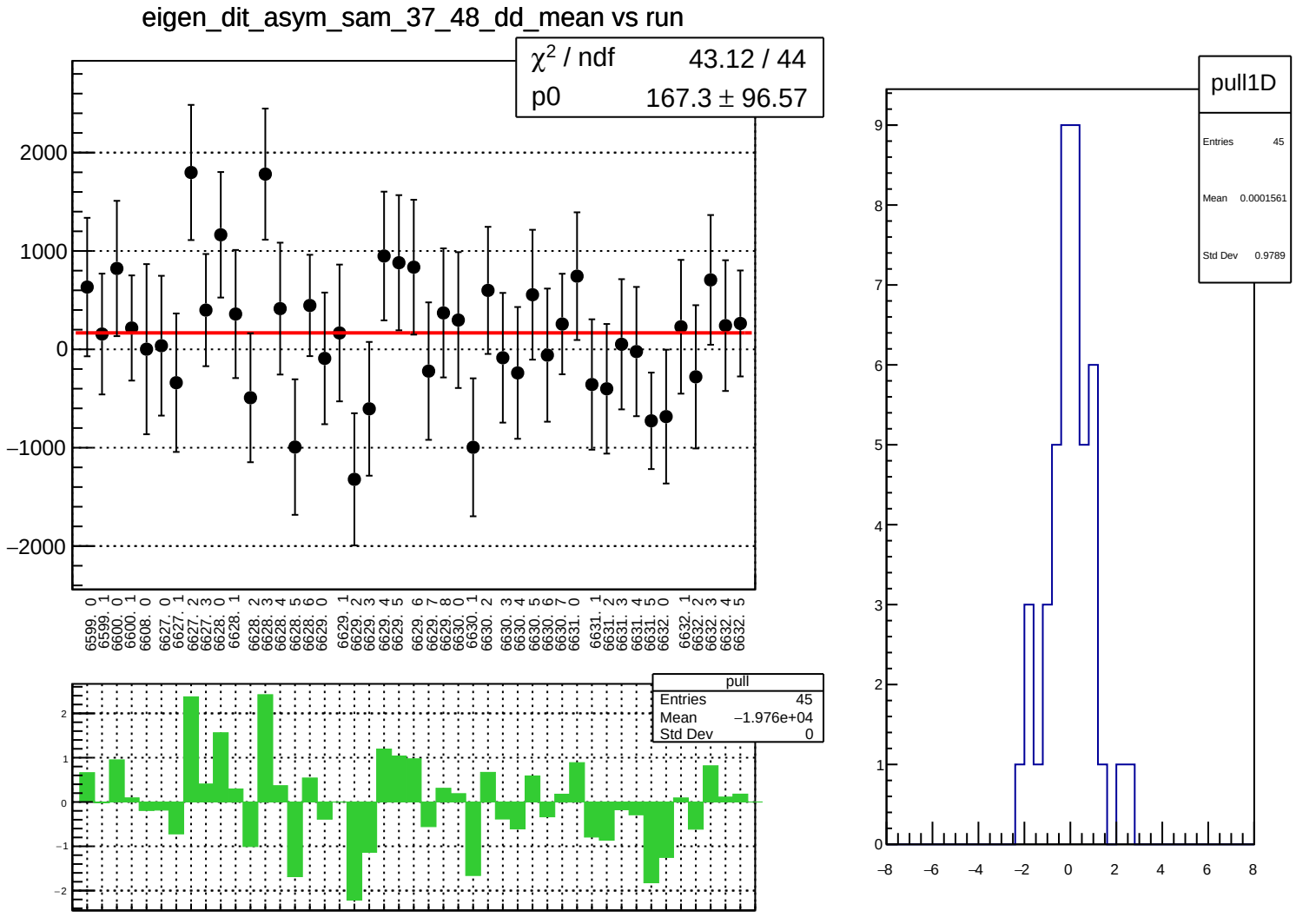
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 43.12 / 44
p0 167.3 ± 96.57
2000
1000
0
−1000
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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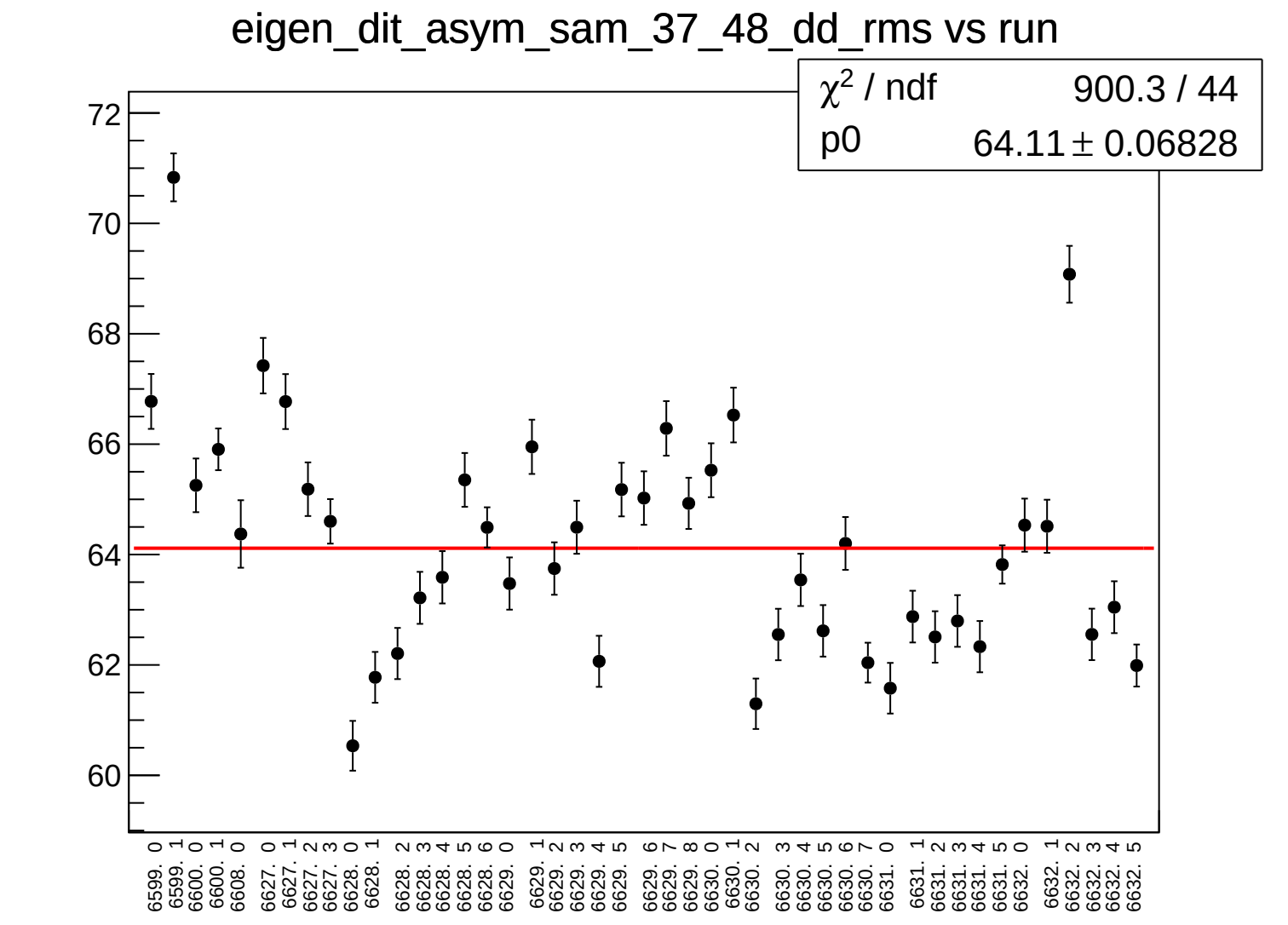
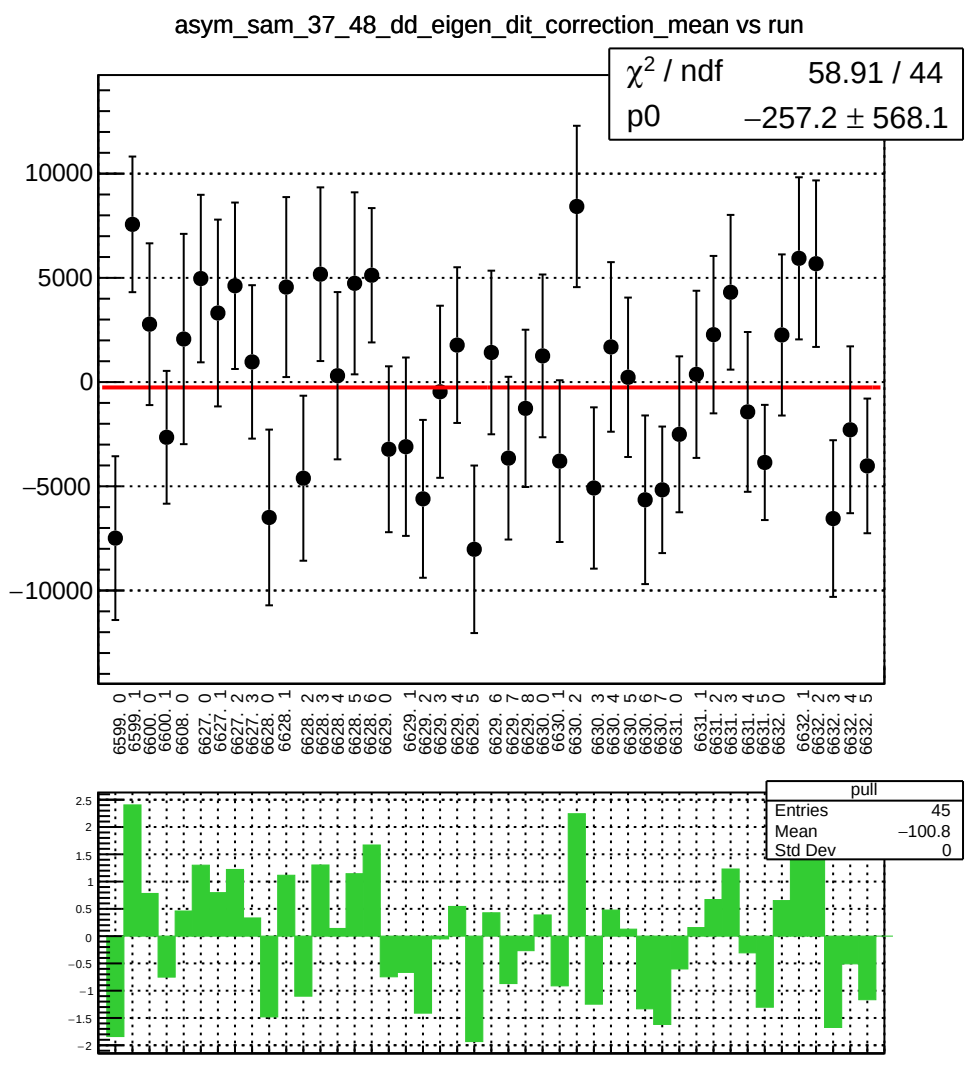
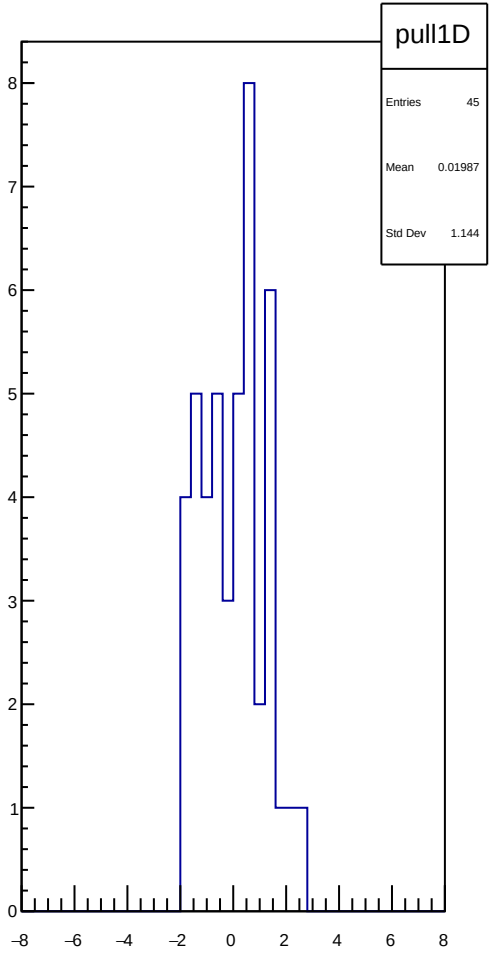
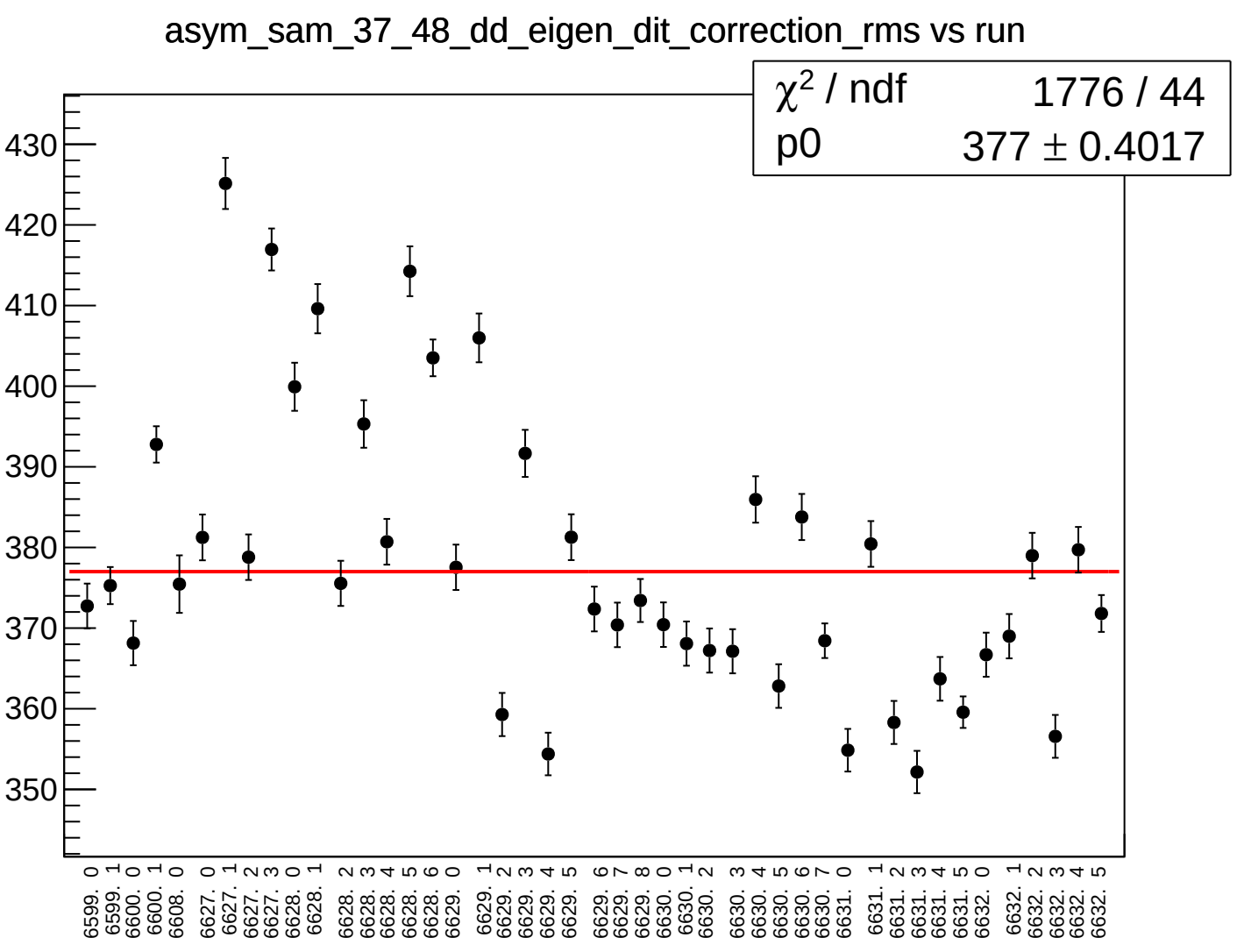
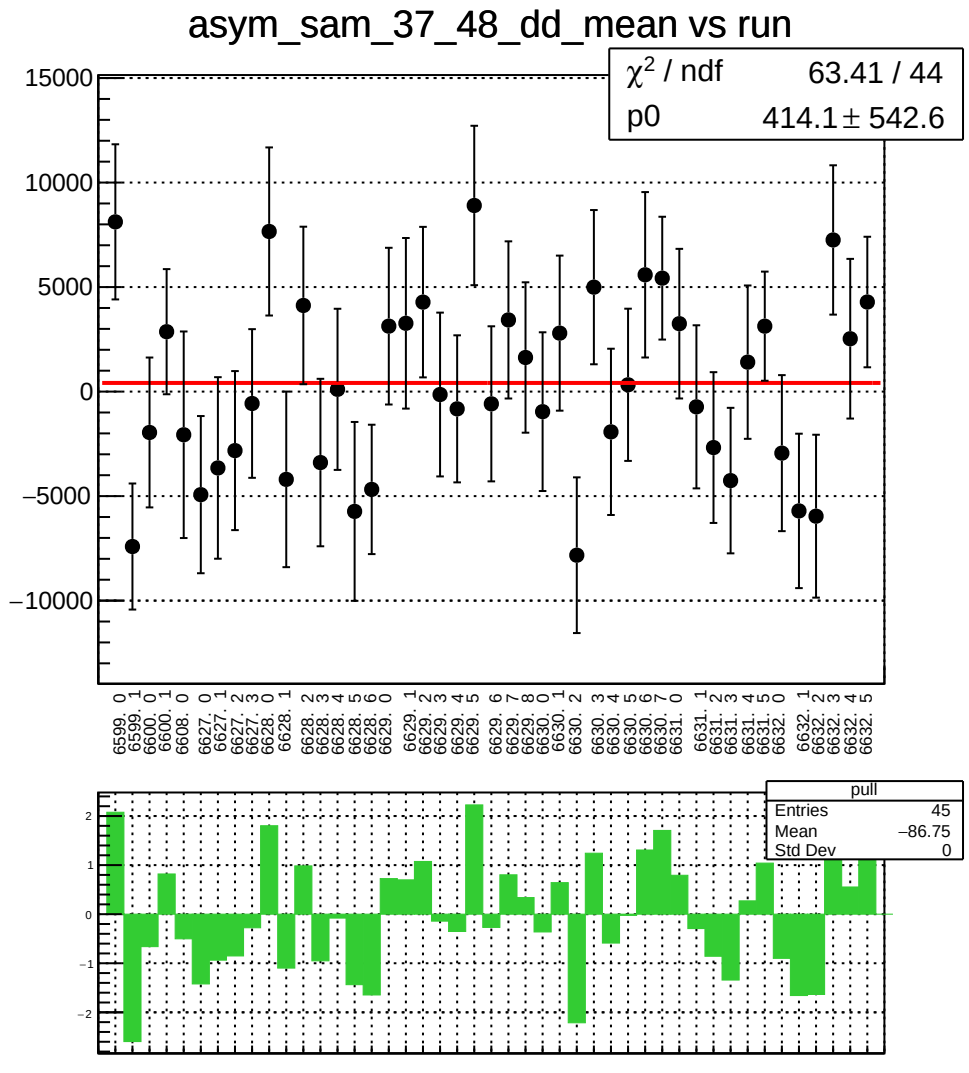
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −1.976e+04
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.0001561
Std Dev 0.9789
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

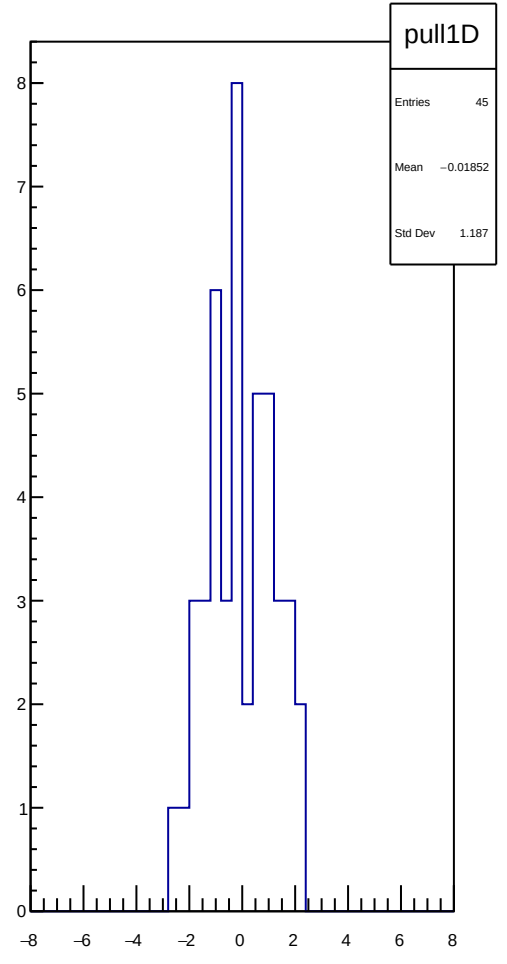

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 900.3 / 44
p0 64.11 ± 0.06828
72
70
68
66
64
62
60
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

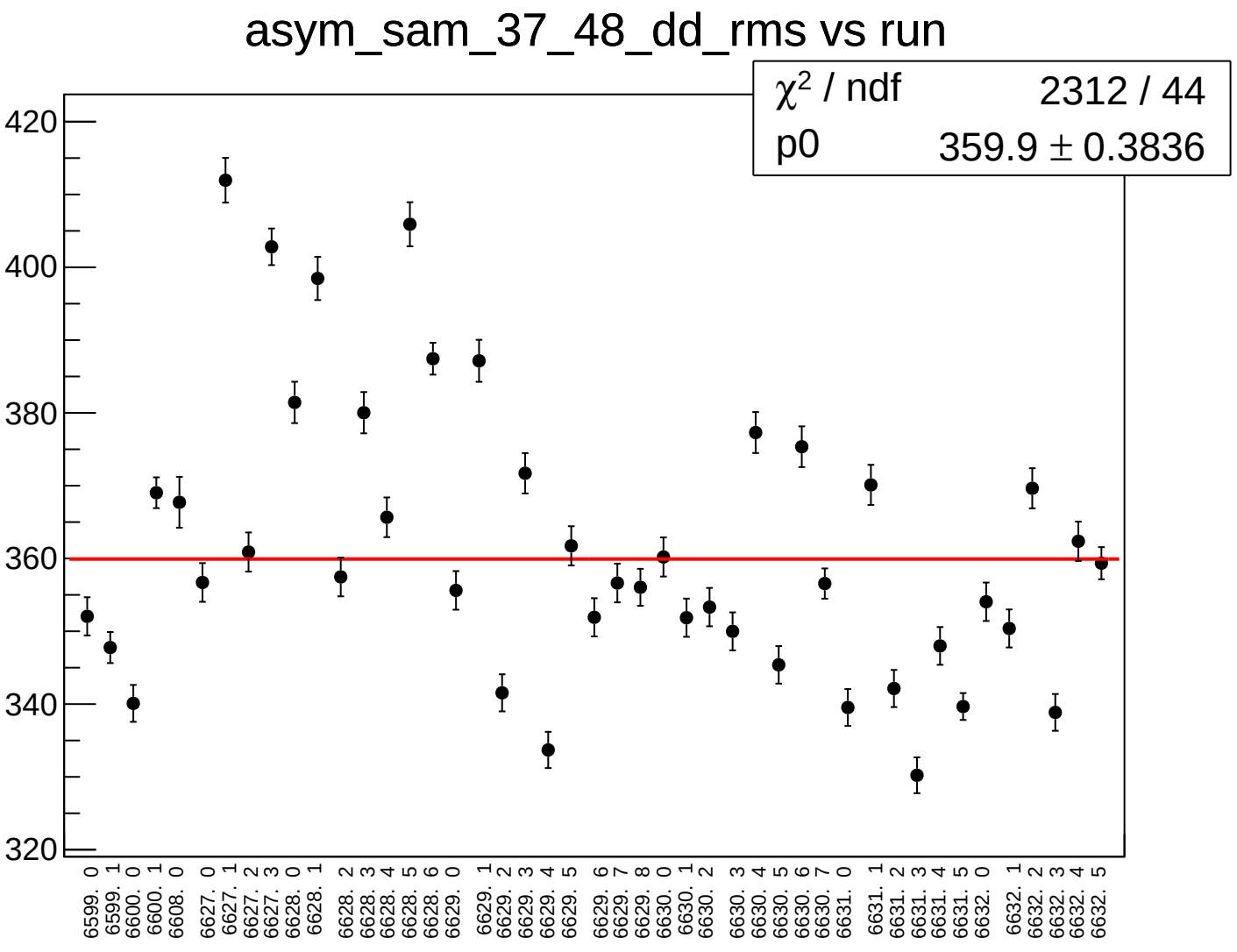

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 58.91 / 44
p0 −257.2 ± 568.1
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −100.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

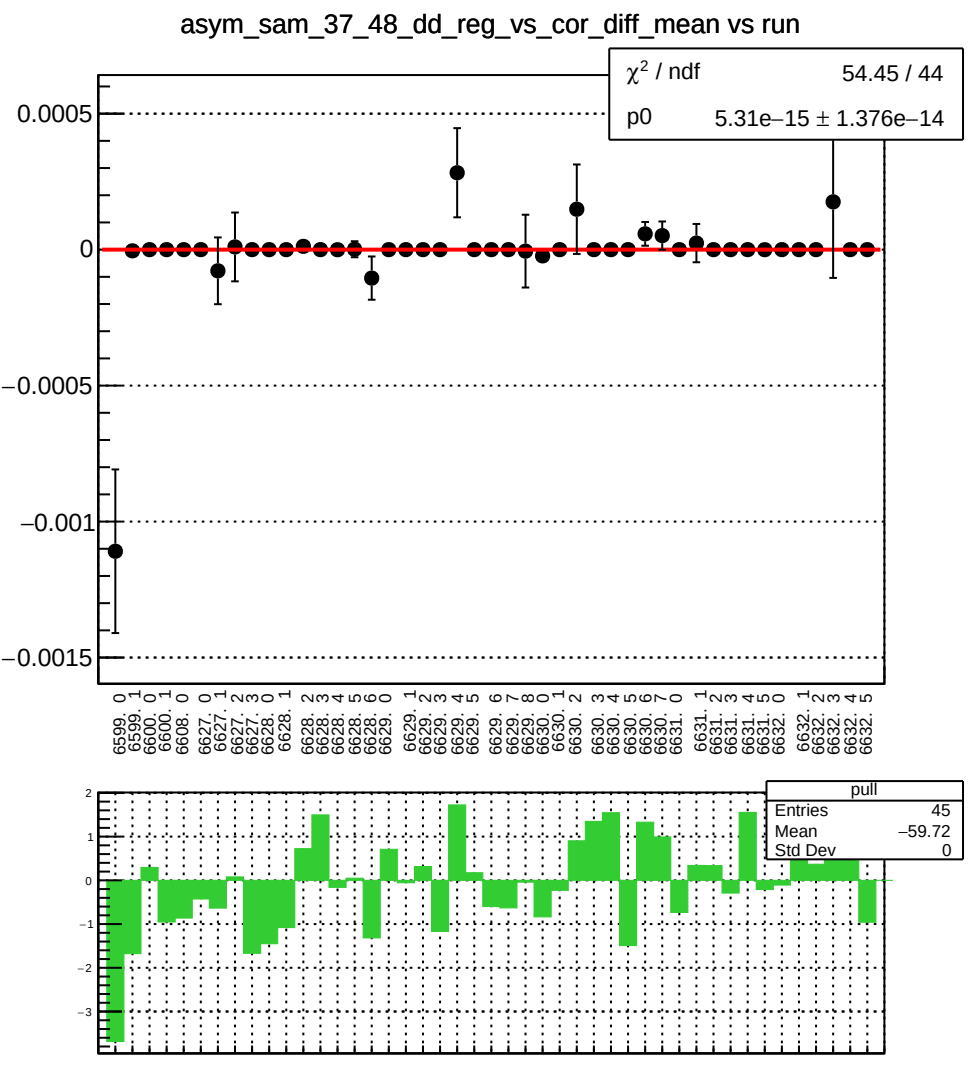

pull1D
Entries 45
Mean 0.01987
Std Dev 1.144
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

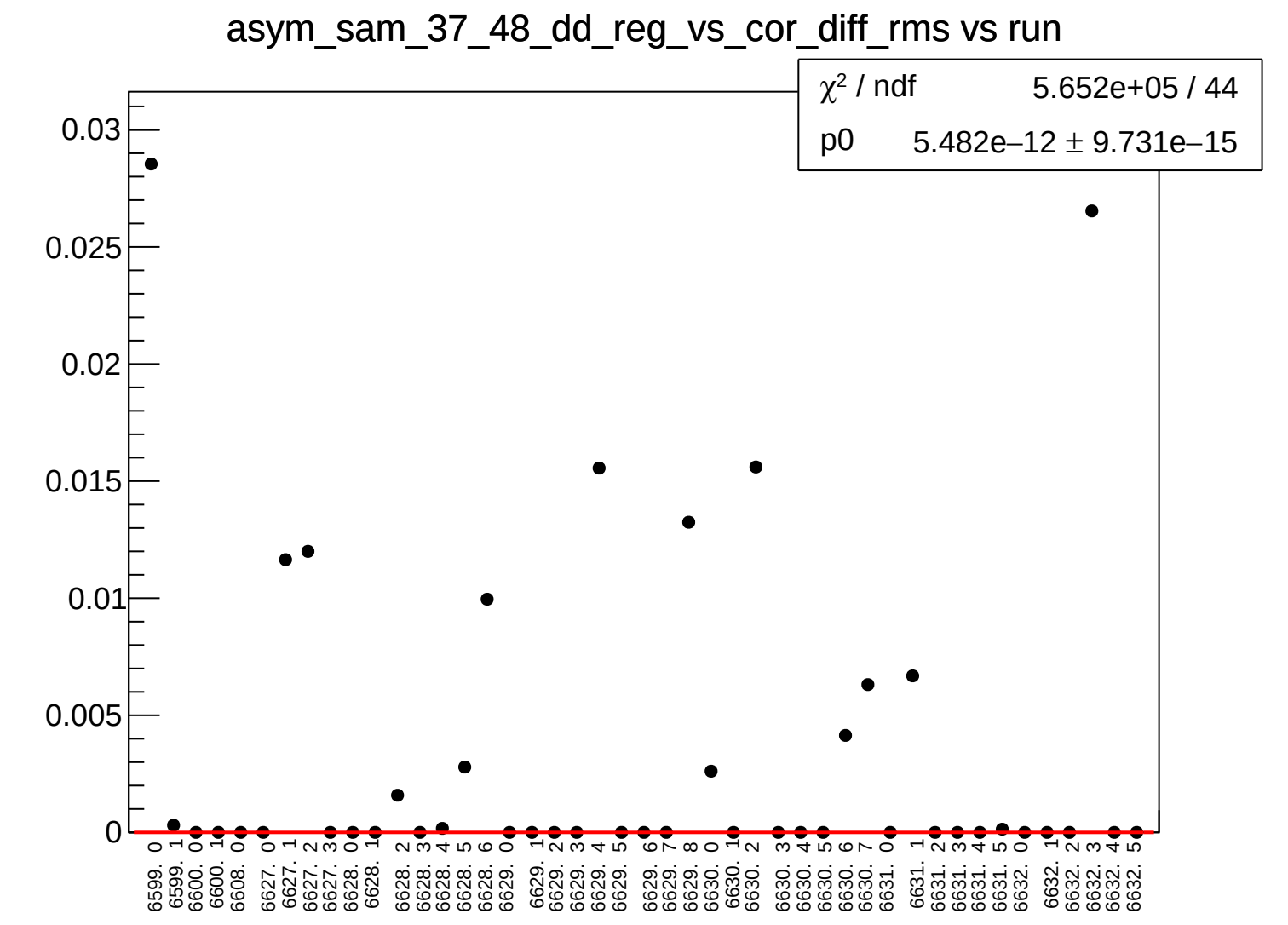

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
$\chi^2$ / ndf 1776 / 44
p0 377 ± 0.4017
430
420
410
400
390
380
370
360
350
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

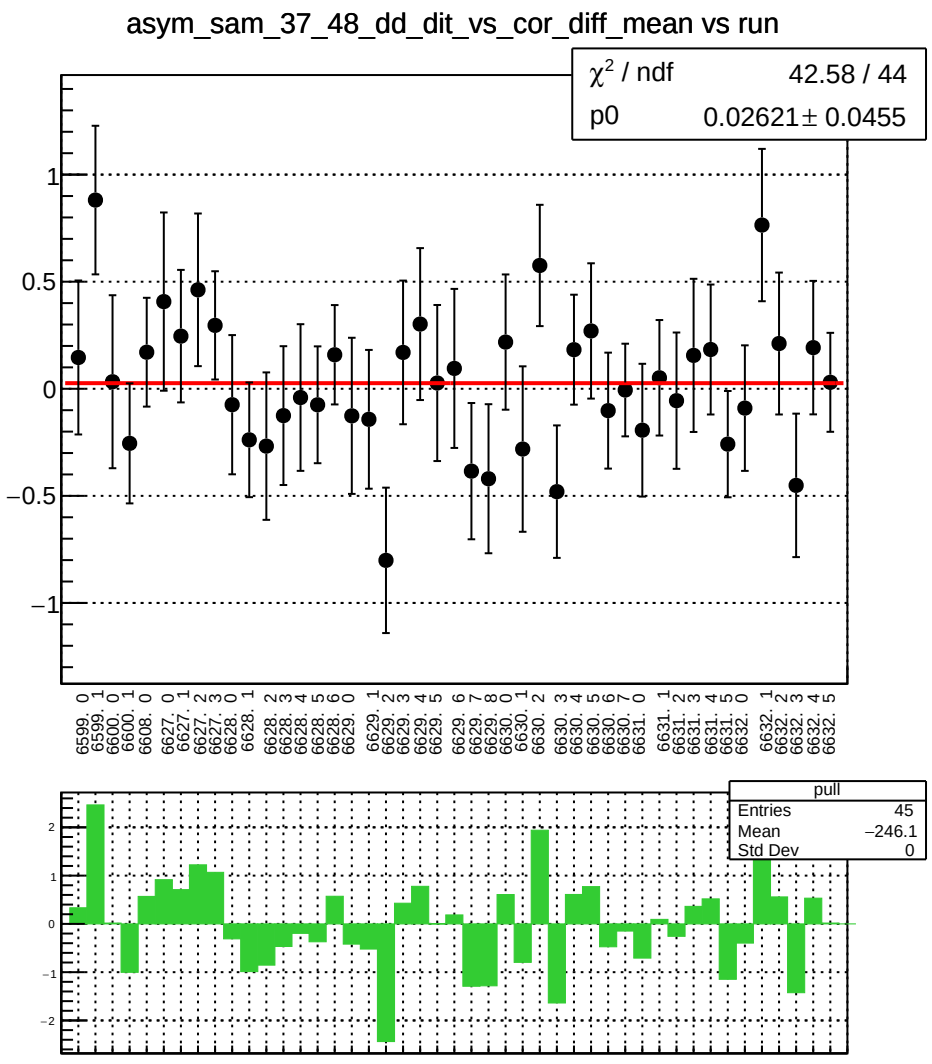

asym_sam_37_48_dd_mean vs run
χ² / ndf 63.41 / 44
p0 414.1 ± 542.6
15000
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −86.75
Std Dev 0
2
1
0
−1
−2

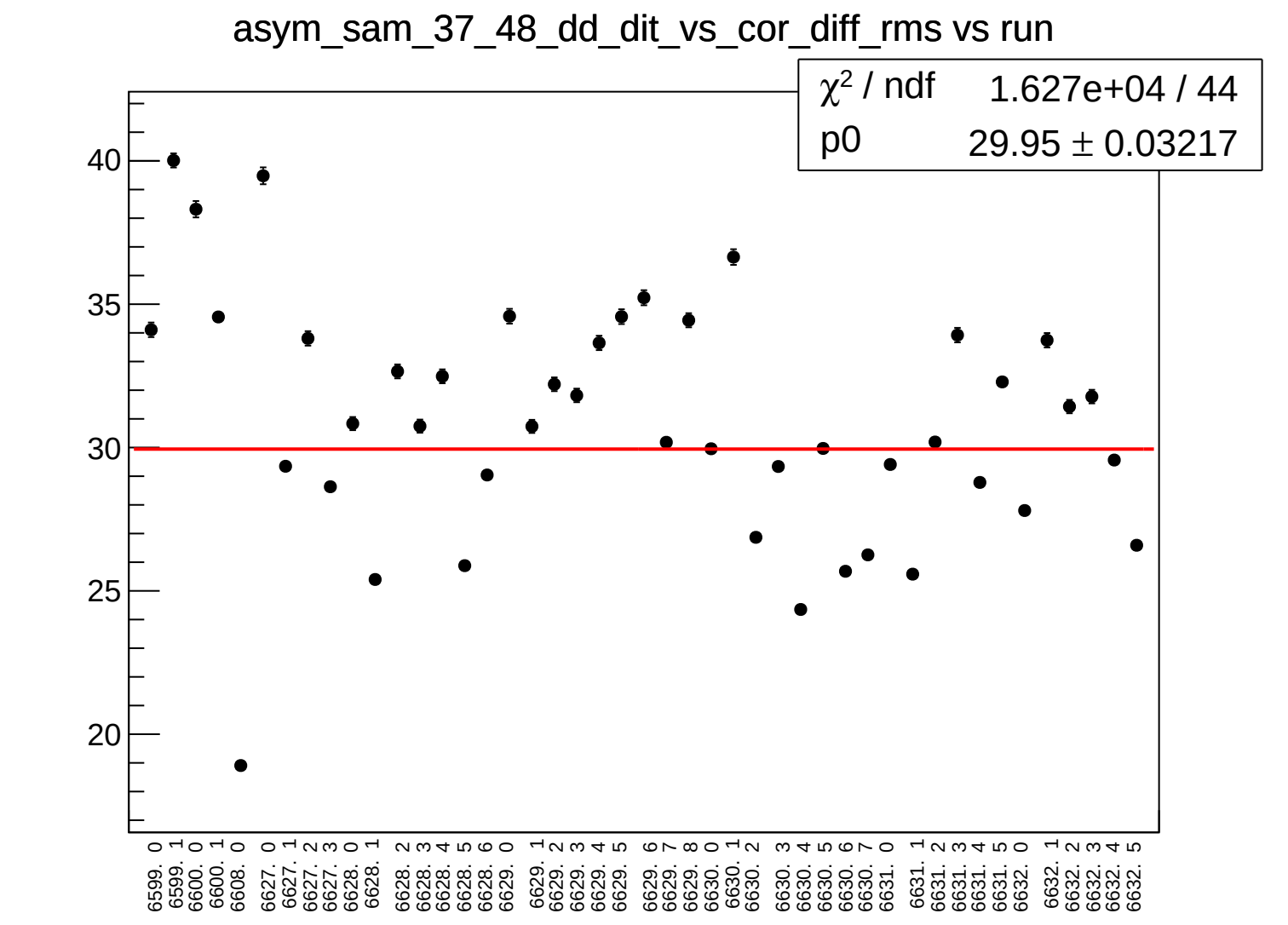

pull1D
Entries 45
Mean −0.01852
Std Dev 1.187
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

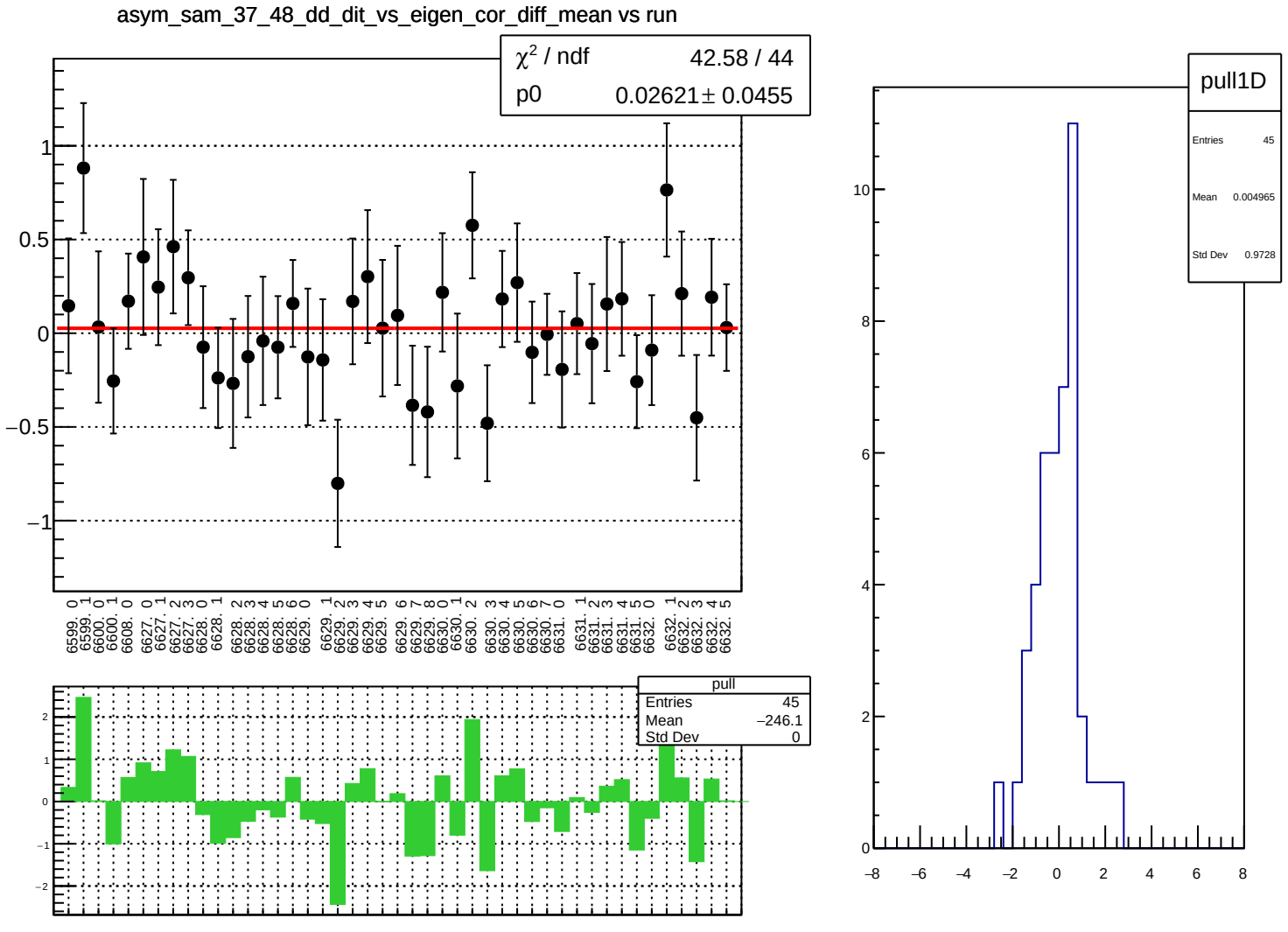

asym_sam_37_48_dd_rms vs run
χ² / ndf 2312 / 44
p0 359.9 ± 0.3836
420
400
380
360
340
320
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

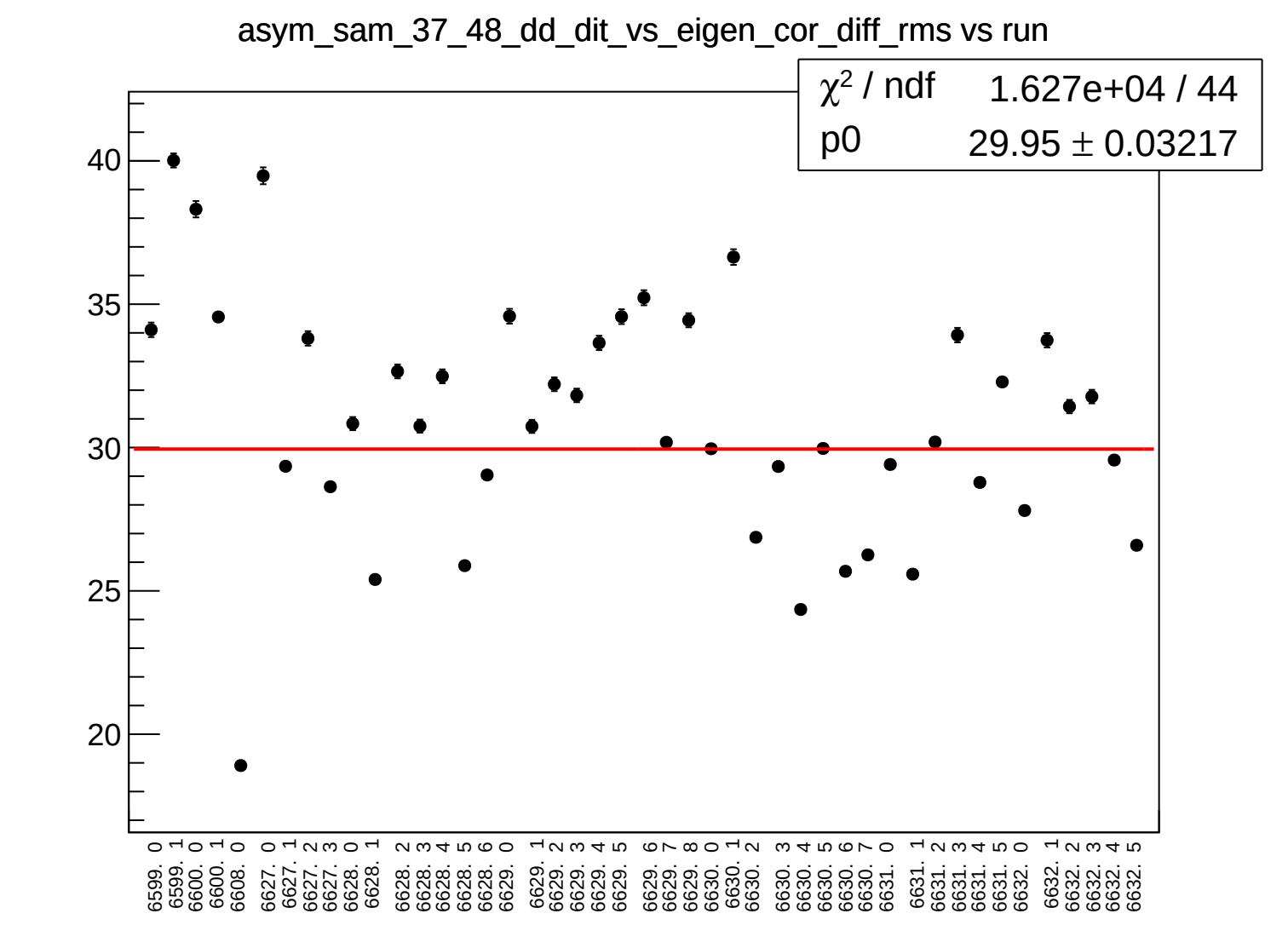

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 54.45 / 44
p0 5.31e−15 ± 1.376e−14
0.0005
0
−0.0005
−0.001
−0.0015
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −59.72
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.07934
Std Dev 1.097
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

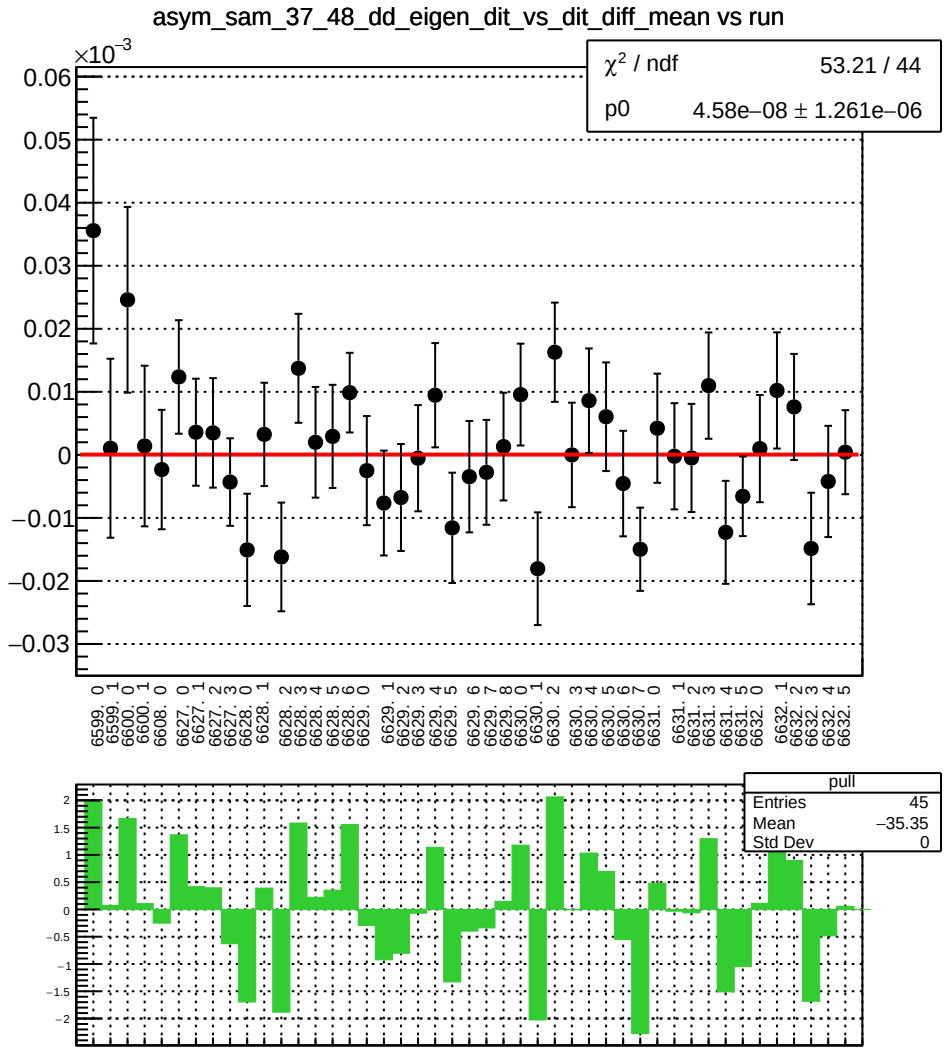

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.652e+05 / 44
p0 5.482e−12 ± 9.731e−15
0.03
0.025
0.02
0.015
0.01
0.005
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

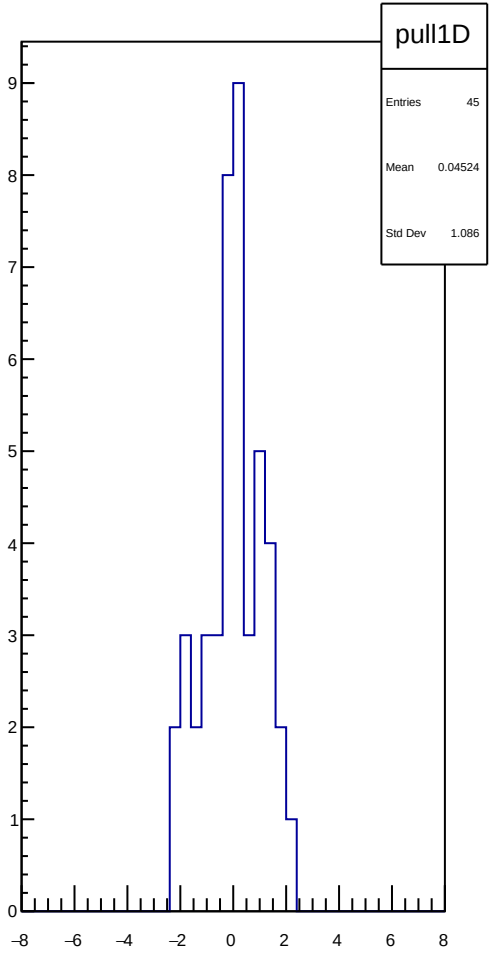

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 42.58 / 44
p0 0.02621 ± 0.0455
pull
Entries 45
Mean −246.1
Std Dev 0
pull1D
Entries 45
Mean 0.004965
Std Dev 0.9728

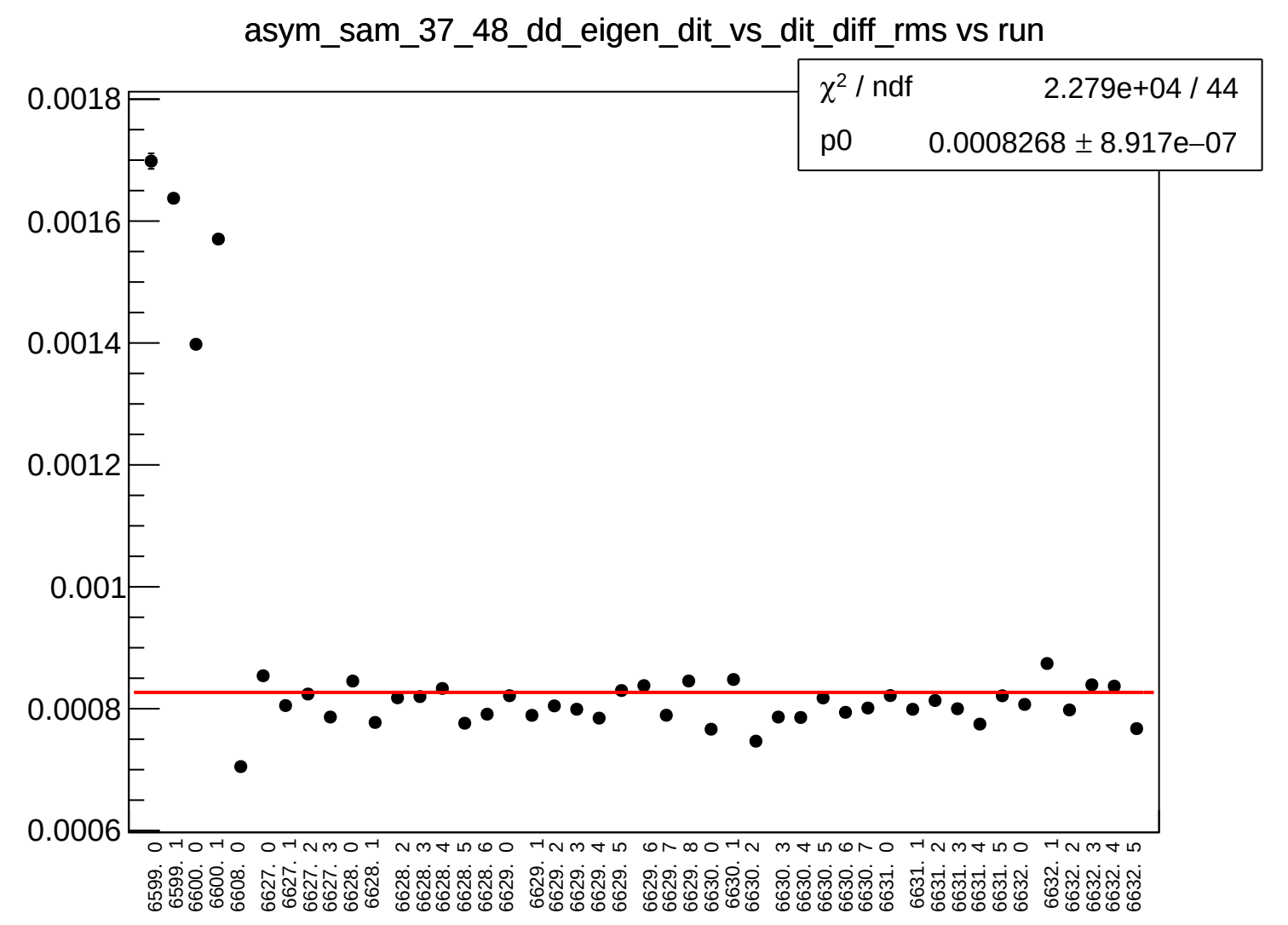

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.627e+04 / 44
p0 29.95 ± 0.03217
40
35
30
25
20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.58 / 44
p0 0.02621 ± 0.0455
pull
Entries 45
Mean −246.1
Std Dev 0
pull1D
Entries 45
Mean 0.004965
Std Dev 0.9728


asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.627e+04 / 44
p0 29.95 ± 0.03217
40
35
30
25
20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 53.21 / 44
p0 4.58e−08 ± 1.261e−06
0.06
0.05
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −35.35
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.04524
Std Dev 1.086
9
8
7
6
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
χ² / ndf 2.279e+04 / 44
p0 0.0008268 ± 8.917e−07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
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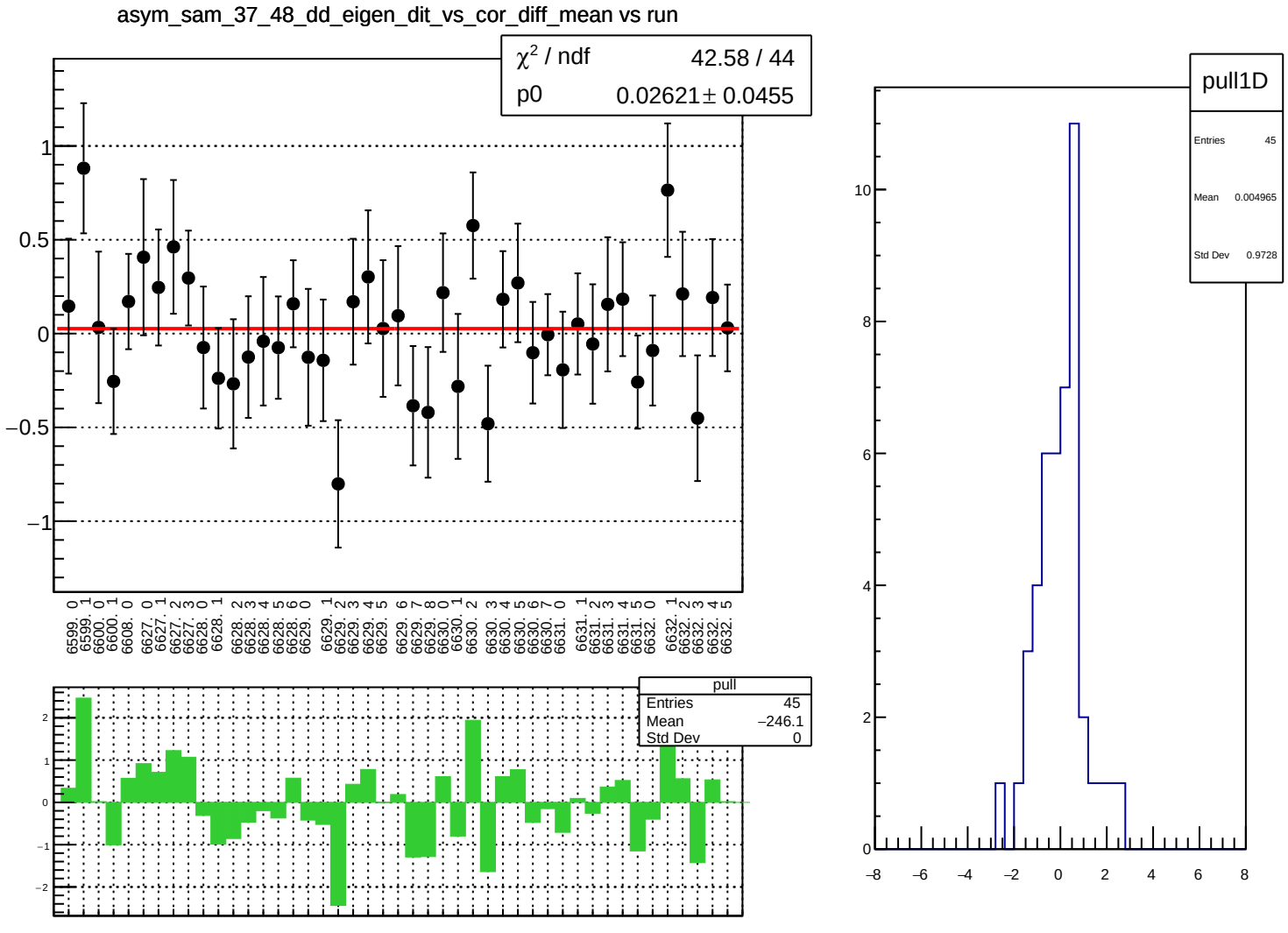
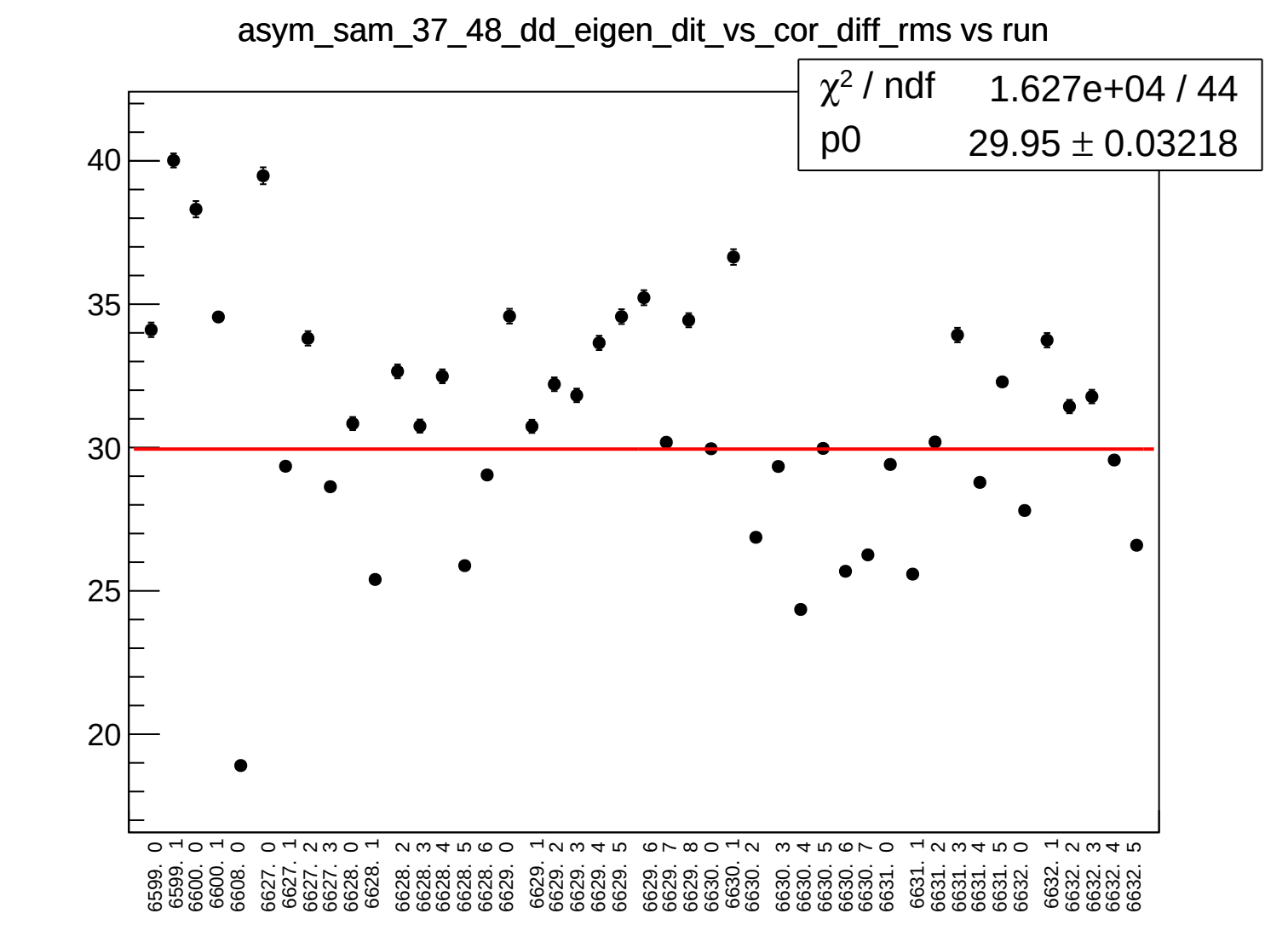
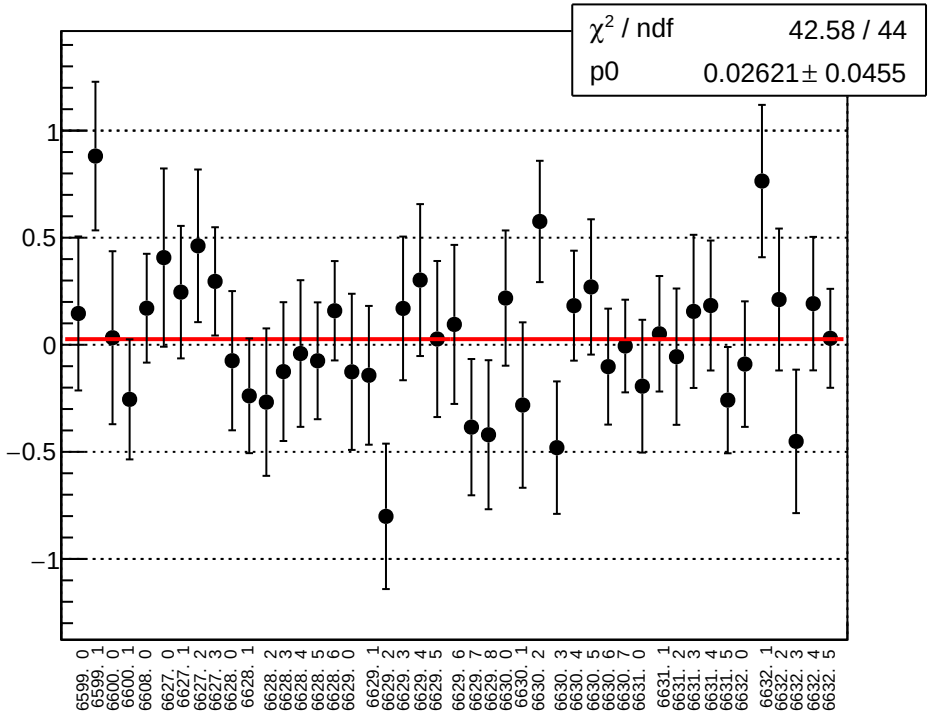
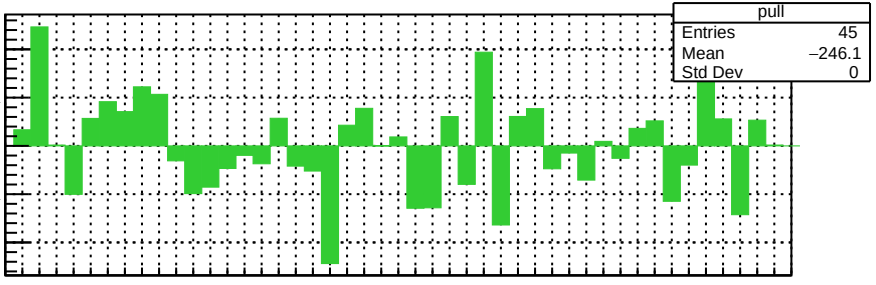
6632. 5

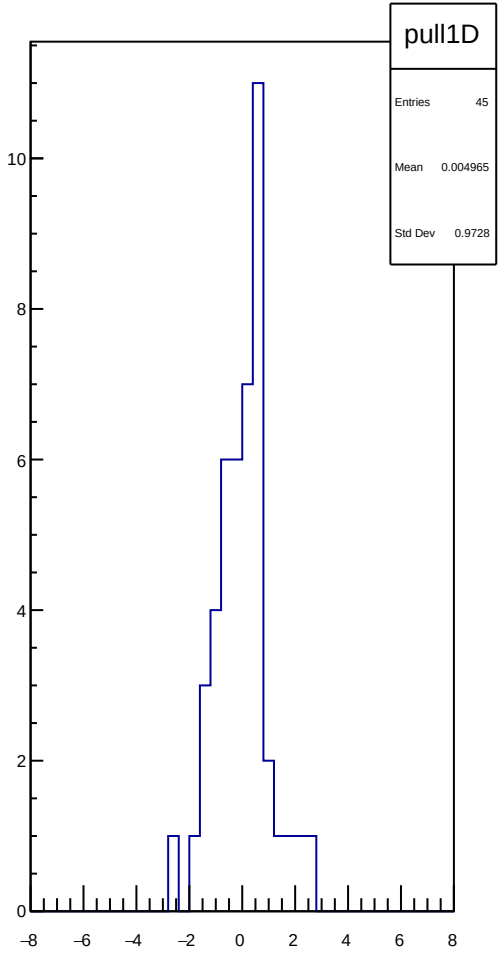

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 42.58 / 44
p0 0.02621 ± 0.0455
pull
Entries 45
Mean −246.1
Std Dev 0
pull1D
Entries 45
Mean 0.004965
Std Dev 0.9728

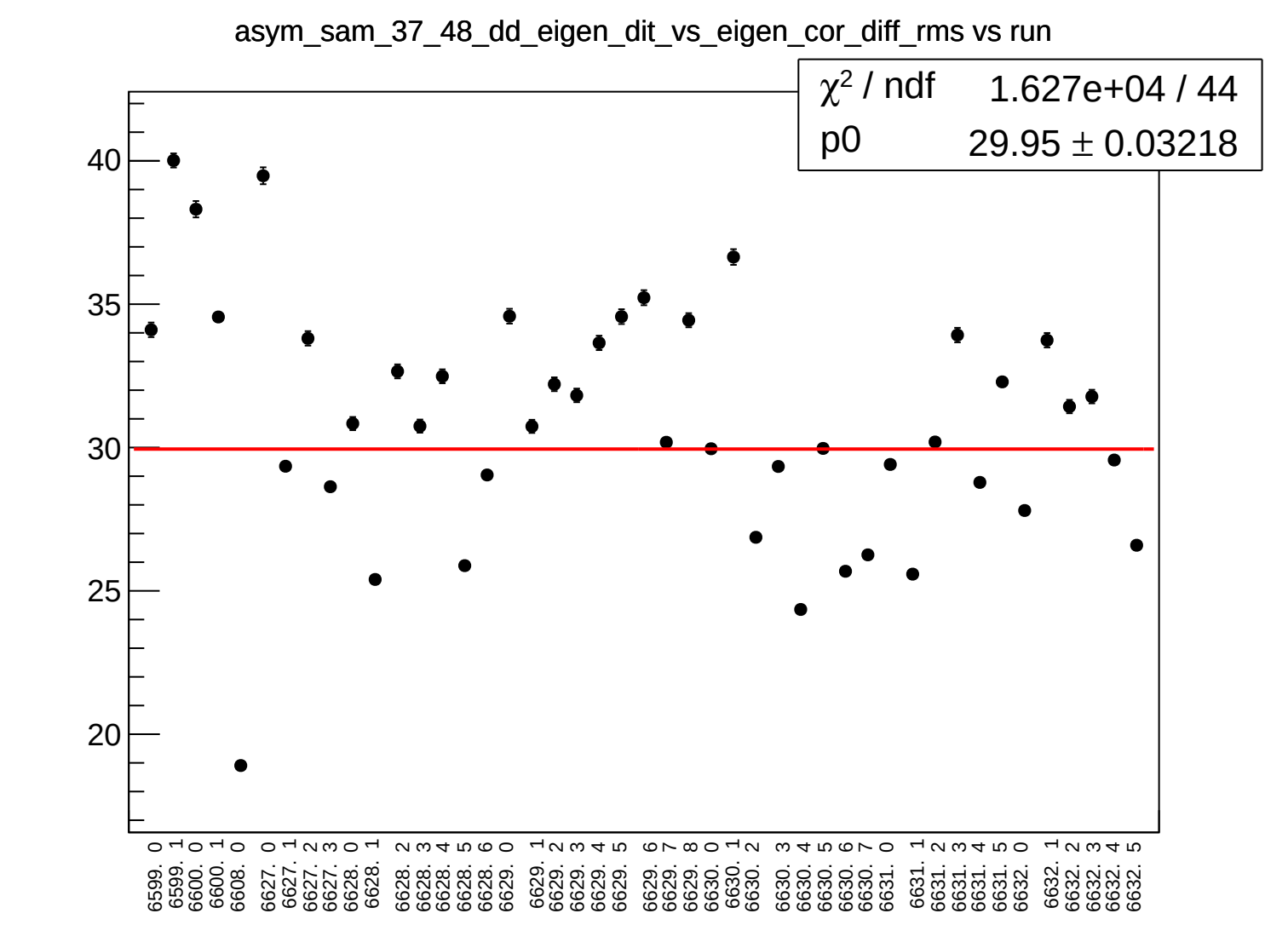

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.627e+04 / 44
p0 29.95 ± 0.03218
40
35
30
25
20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run




asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.627e+04 / 44
p0 29.95 ± 0.03218
40
35
30
25
20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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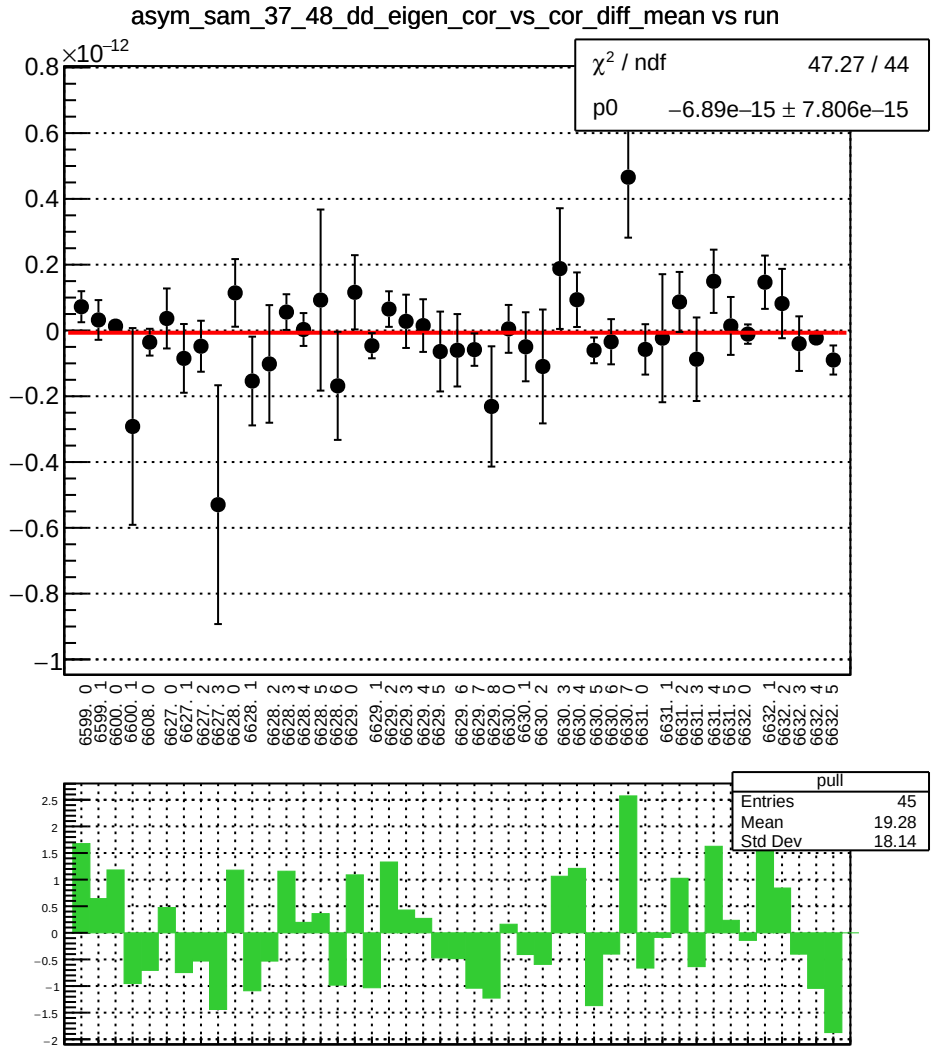
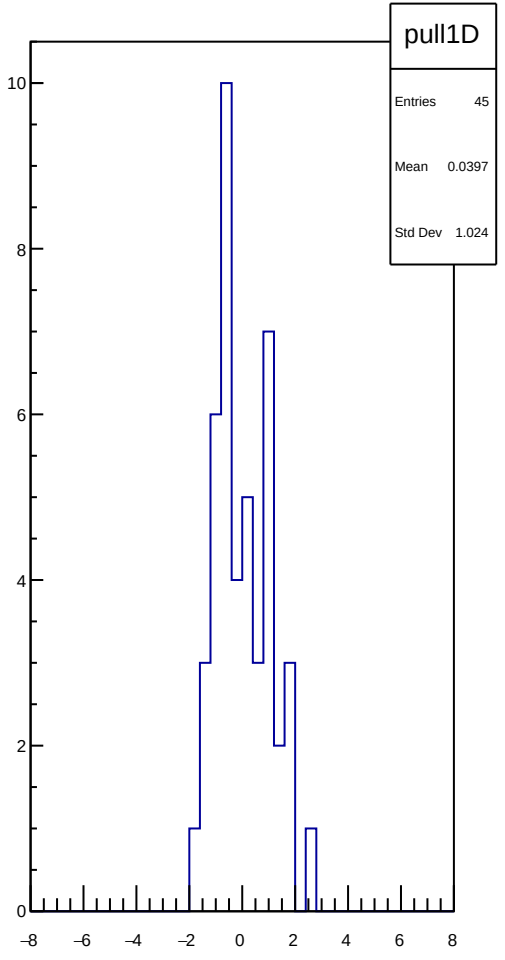
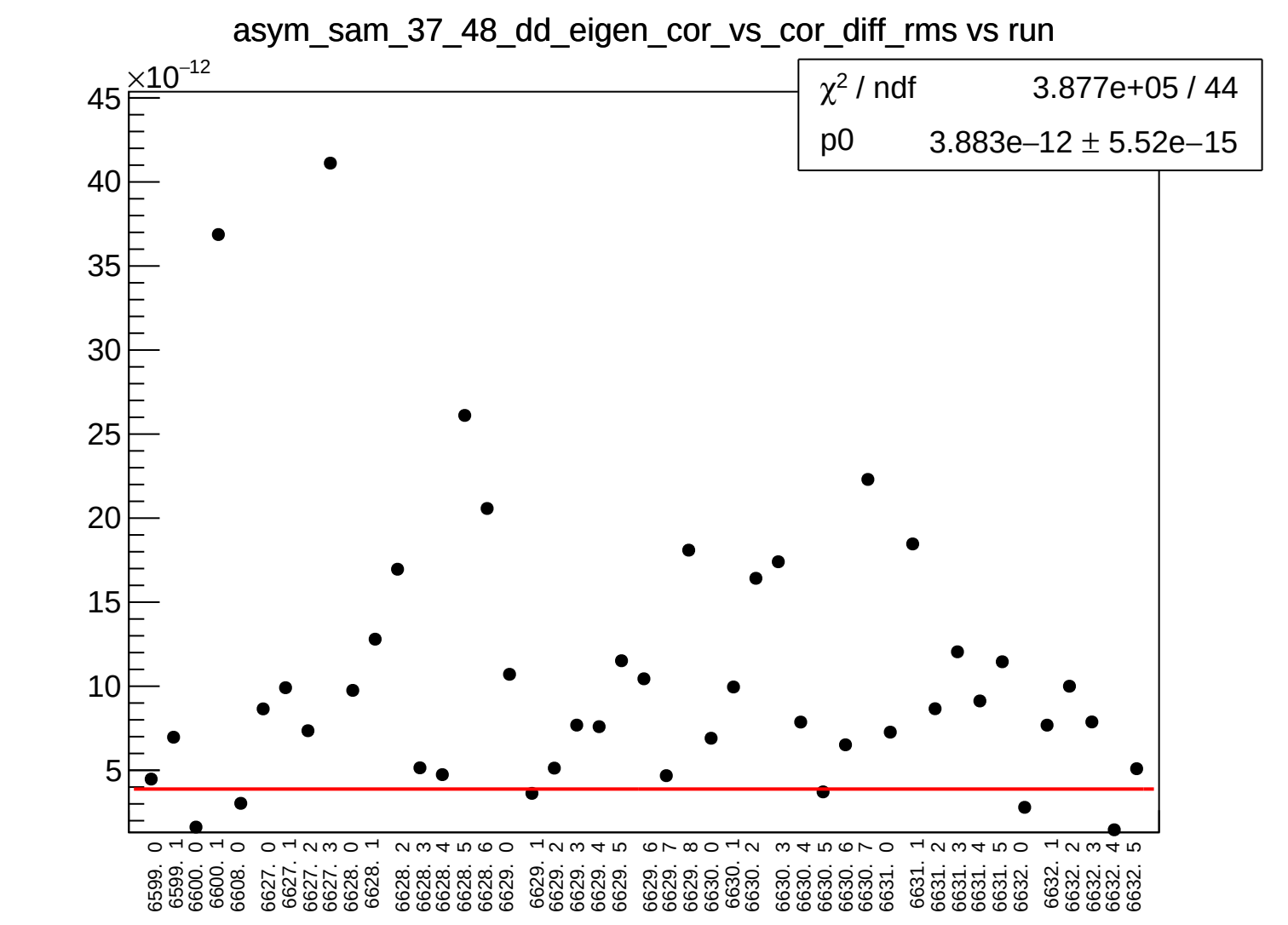
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 47.27 / 44
p0 −6.89e−15 ± 7.806e−15
pull
Entries 45
Mean 19.28
Std Dev 18.14


pull1D
Entries 45
Mean 0.0397
Std Dev 1.024


asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.877e+05 / 44
p0 3.883e−12 ± 5.52e−15
45
40
35
30
25
20
15
10
5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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6628. 0
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6631. 0
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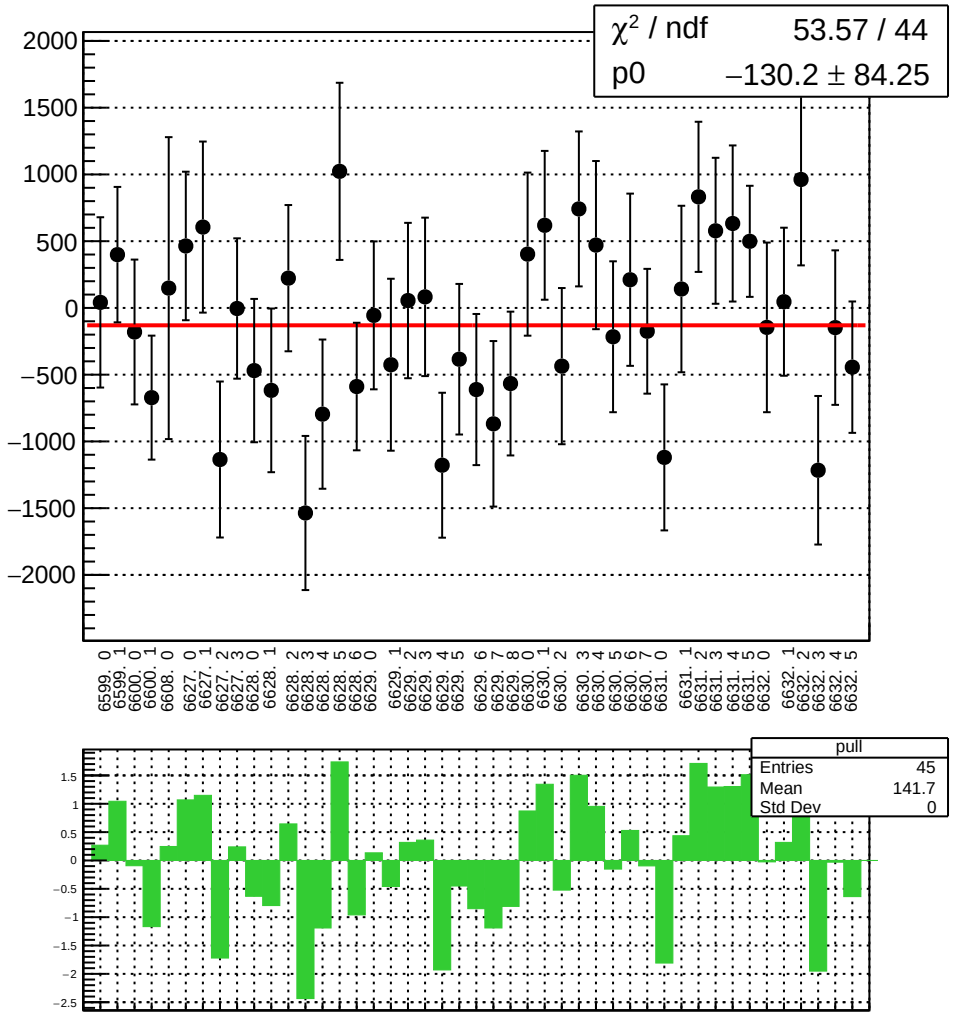
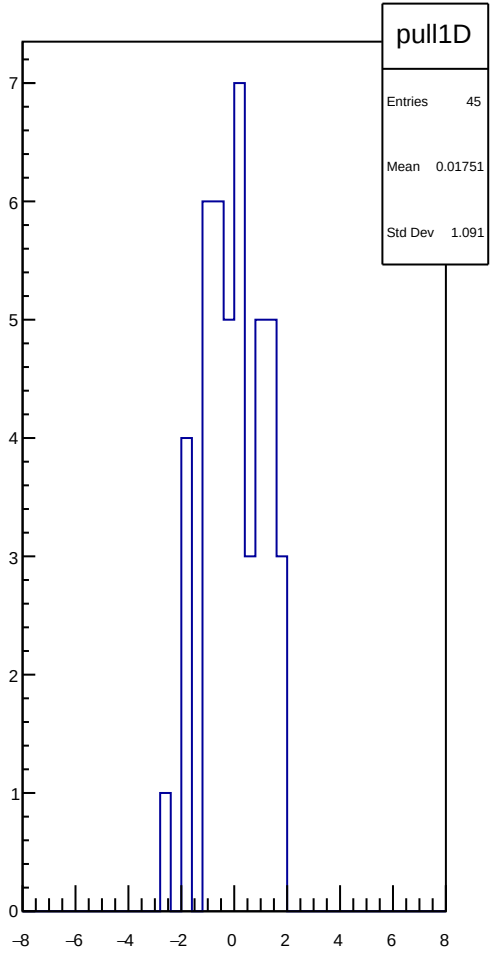
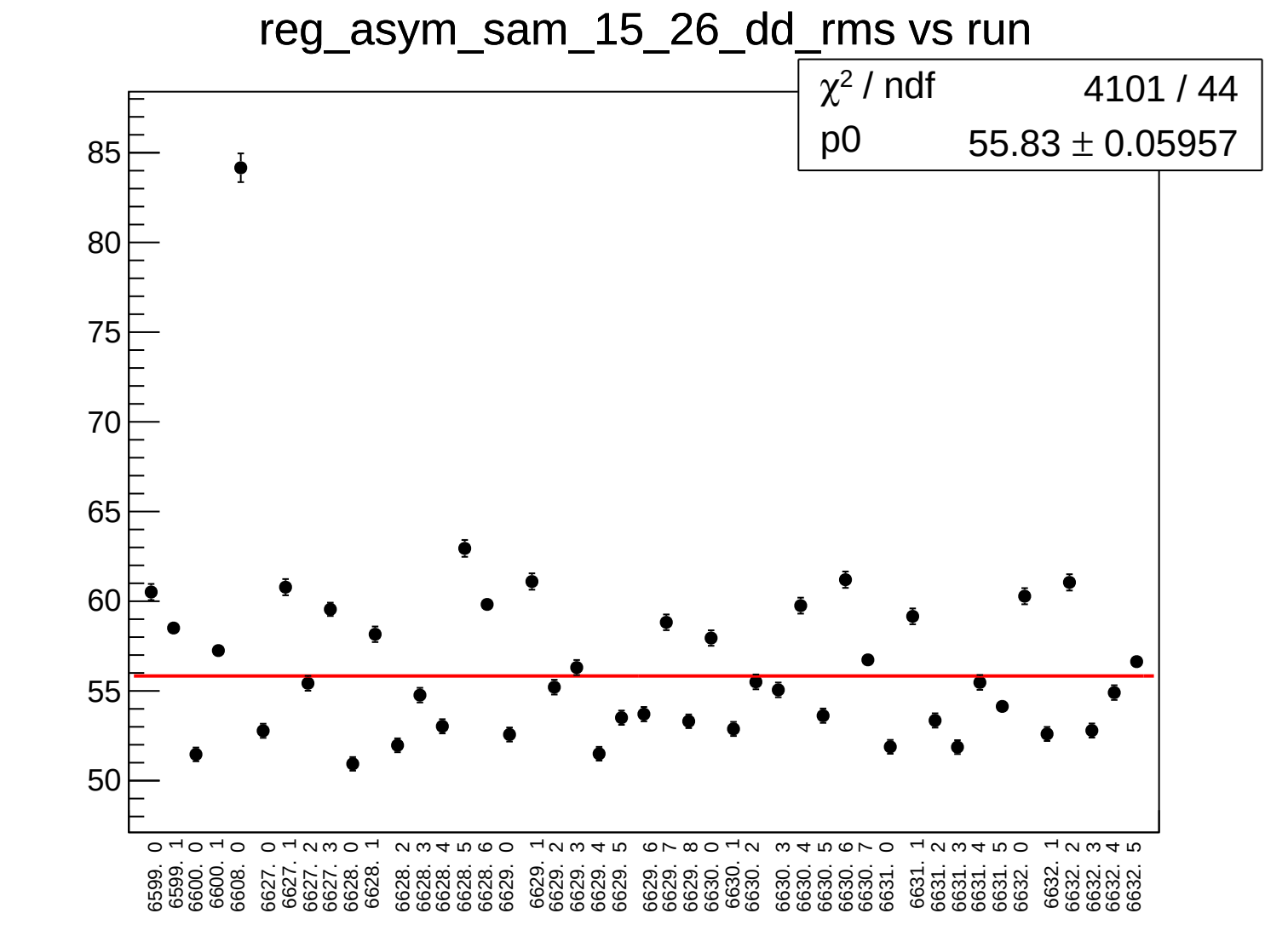
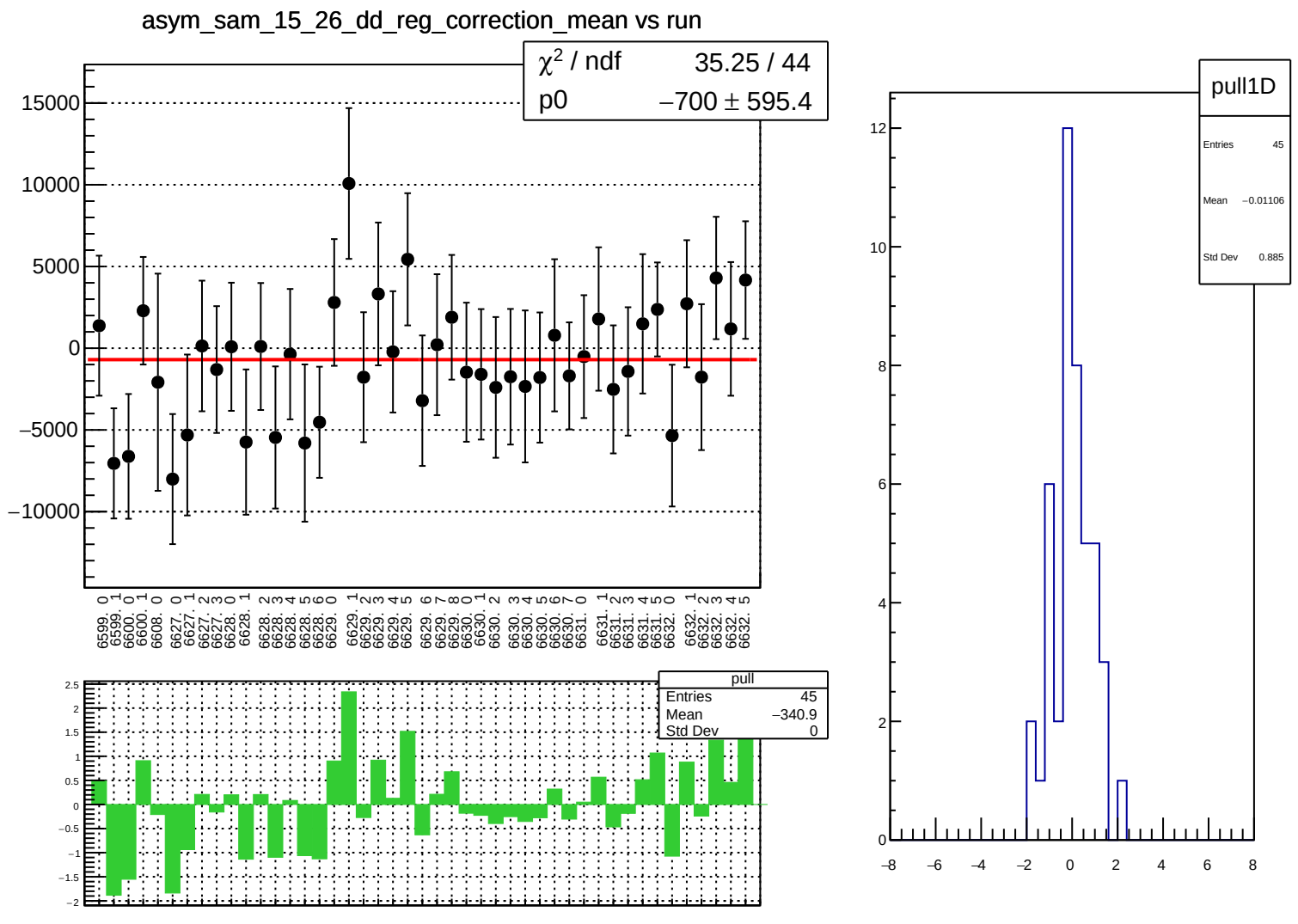
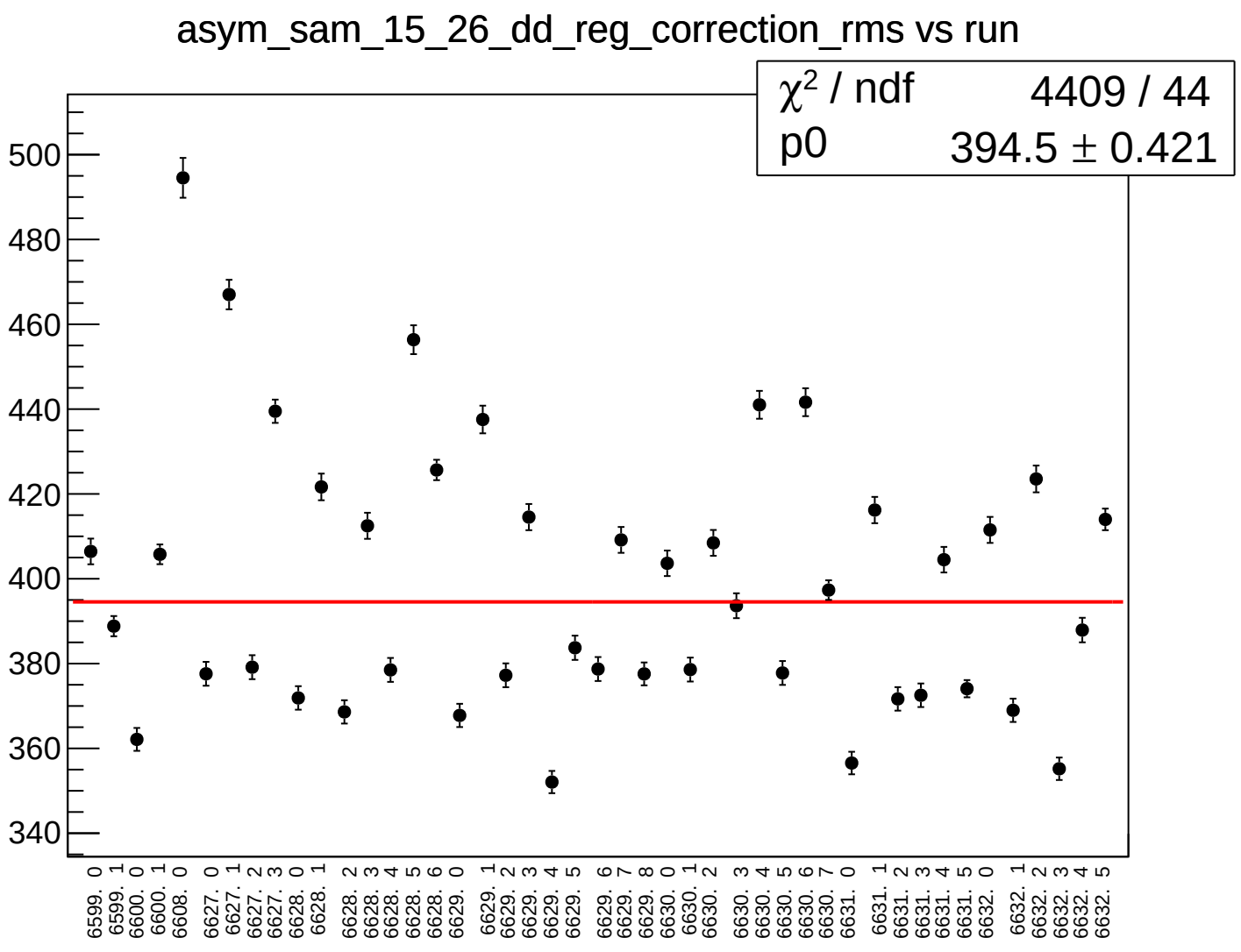
6632. 4
6632. 5


reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 53.57 / 44
p0 −130.2 ± 84.25
pull
Entries 45
Mean 141.7
Std Dev 0


pull1D
Entries 45
Mean 0.01751
Std Dev 1.091


reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 4101 / 44
p0 55.83 ± 0.05957
85
80
75
70
65
60
55
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 35.25 / 44
p0 −700 ± 595.4
15000
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −340.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01106
Std Dev 0.885
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 4409 / 44
p0 394.5 ± 0.421
500
480
460
440
420
400
380
360
340
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6630. 7
6631. 0
6631. 1
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6631. 4
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6632. 0
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6632. 2
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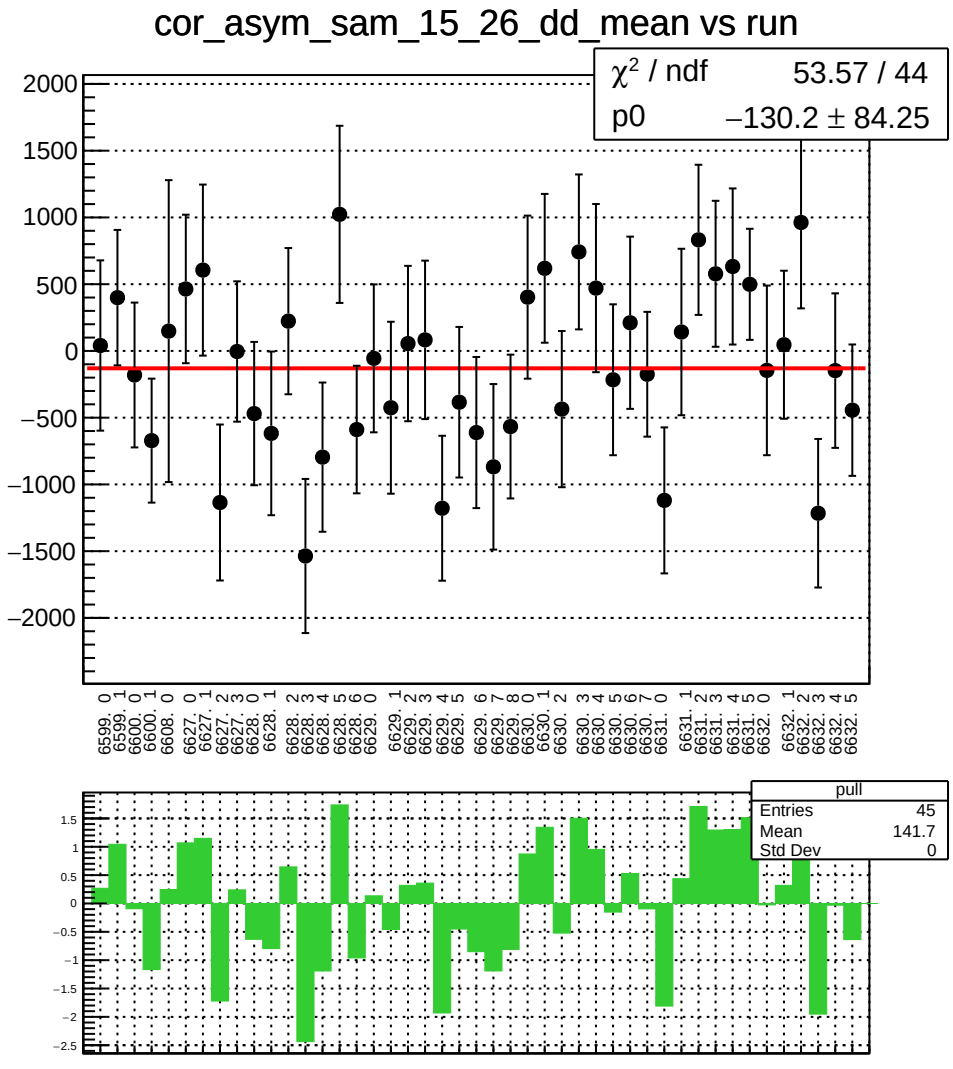
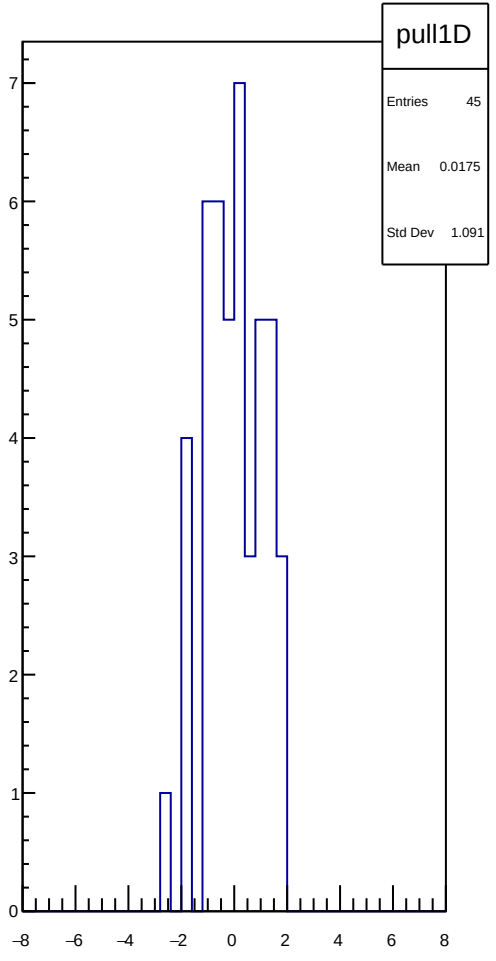
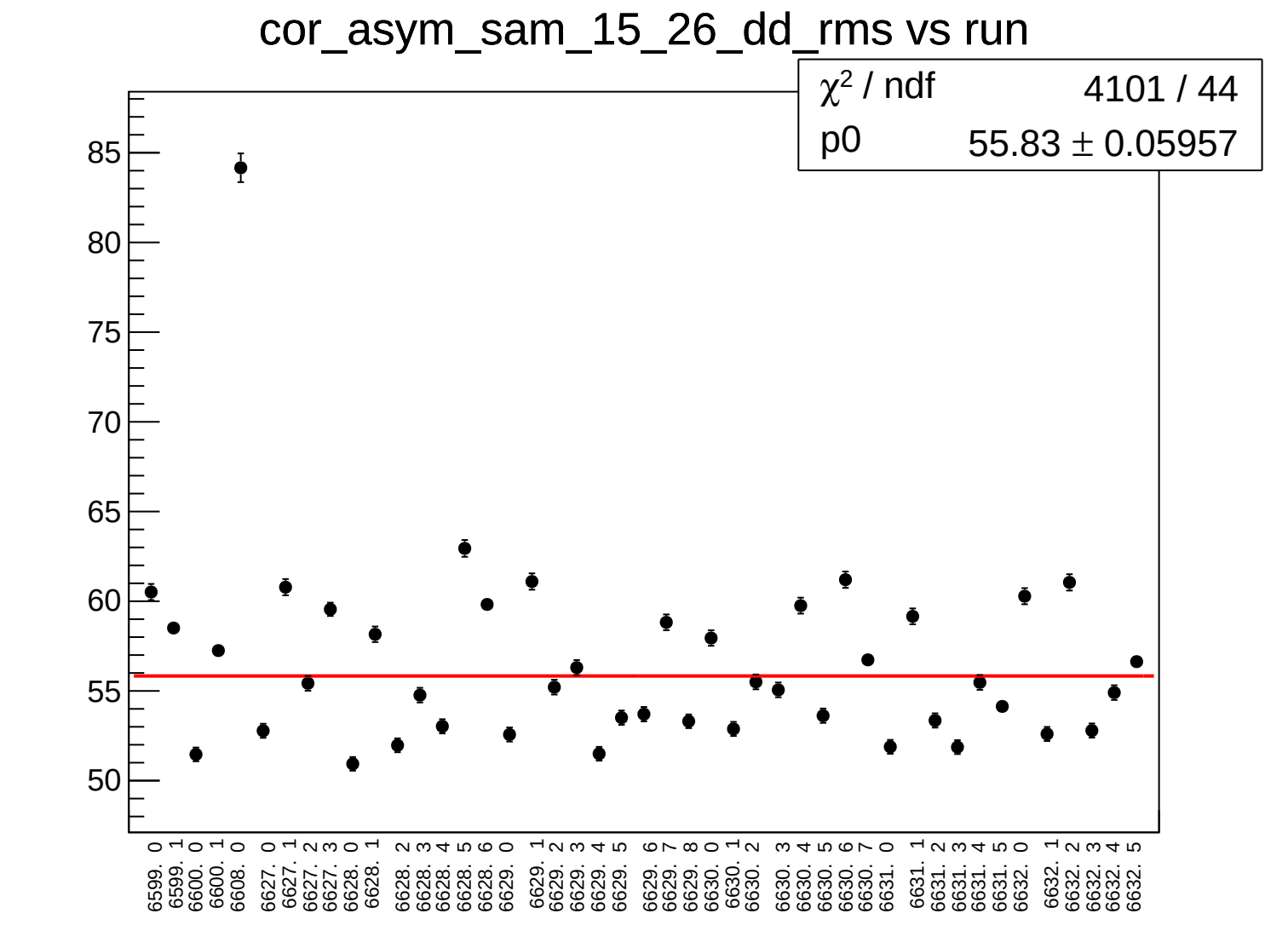
6632. 4
6632. 5


cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 53.57 / 44
p0 −130.2 ± 84.25
pull
Entries 45
Mean 141.7
Std Dev 0


pull1D
Entries 45
Mean 0.0175
Std Dev 1.091


cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 4101 / 44
p0 55.83 ± 0.05957
85
80
75
70
65
60
55
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
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6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
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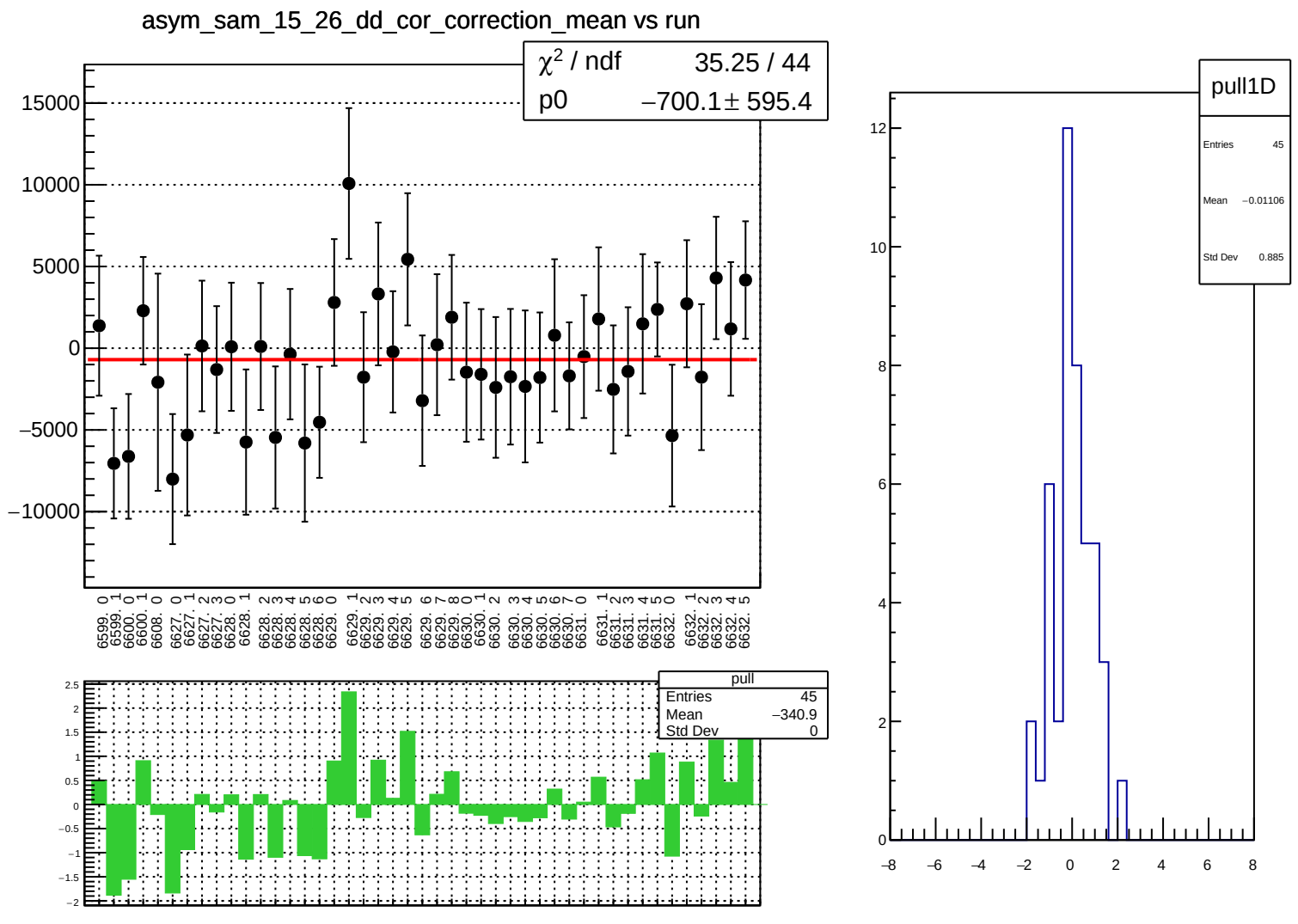
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 35.25 / 44
p0 −700.1 ± 595.4
15000
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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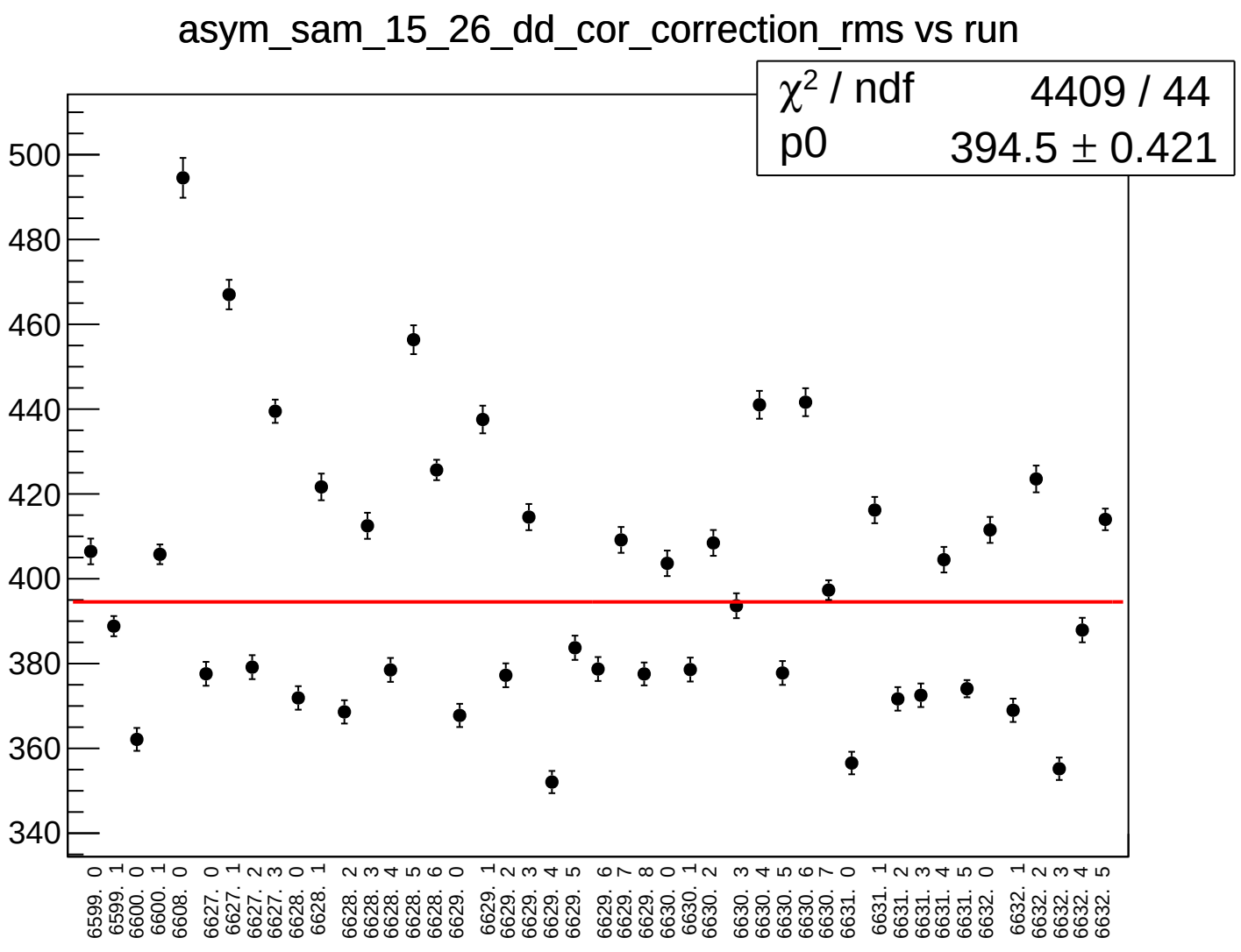
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −340.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01106
Std Dev 0.885
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 4409 / 44
p0 394.5 ± 0.421
500
480
460
440
420
400
380
360
340
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
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6629. 1
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6629. 7
6629. 8
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6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6632. 0
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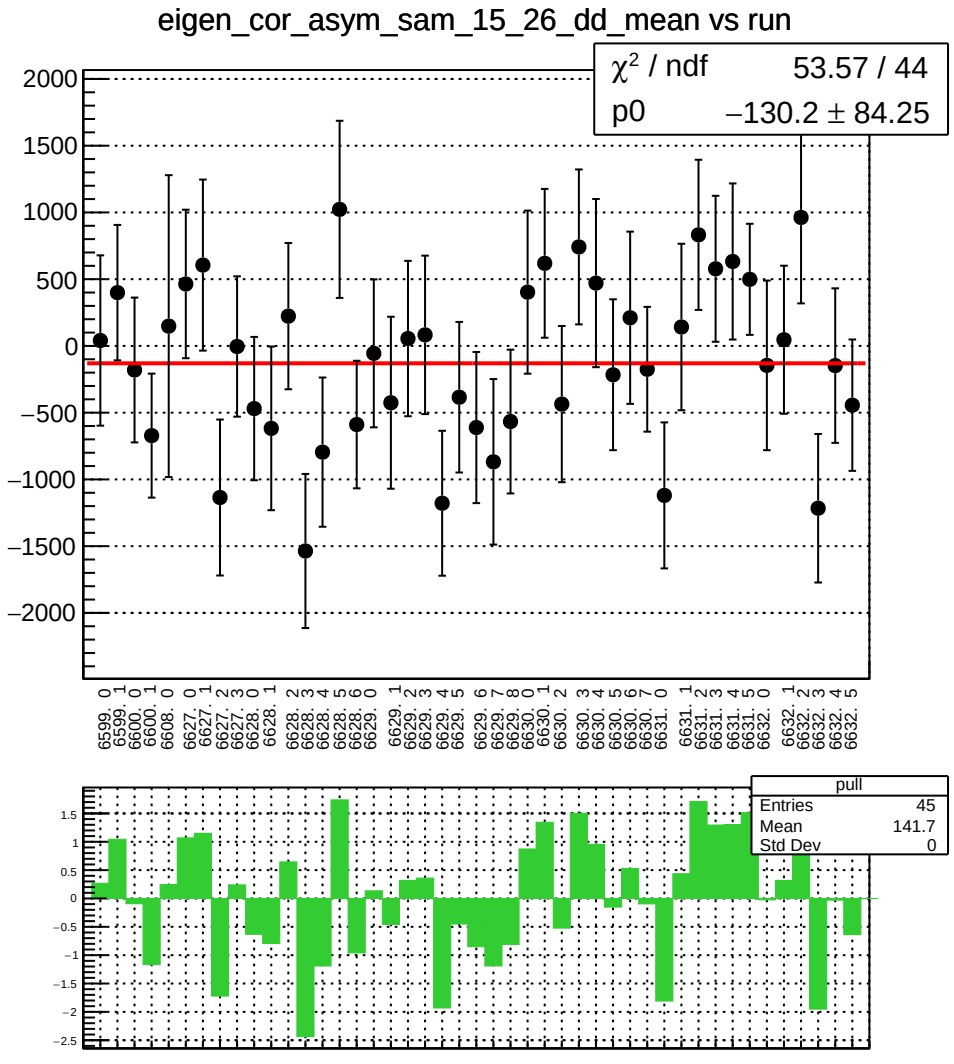
6632. 2
6632. 3
6632. 4
6632. 5


eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 53.57 / 44
p0 −130.2 ± 84.25
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
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6629. 0
6629. 1
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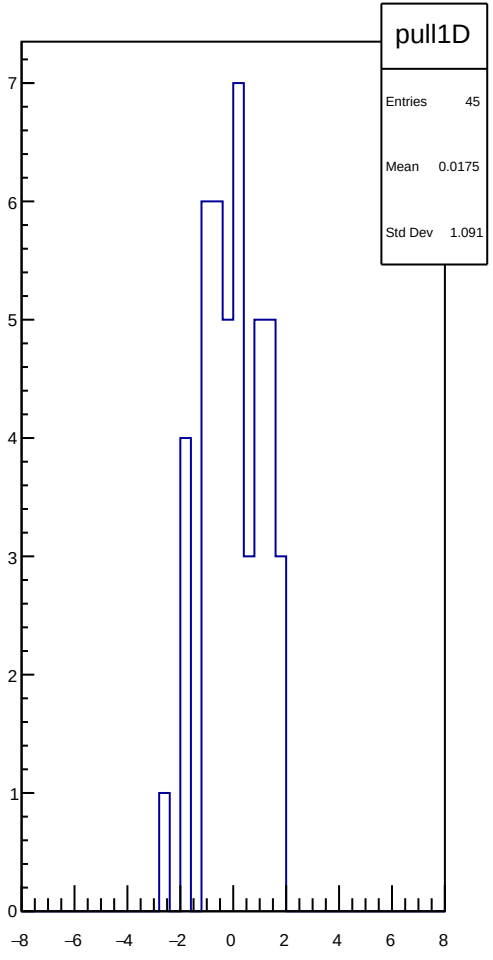
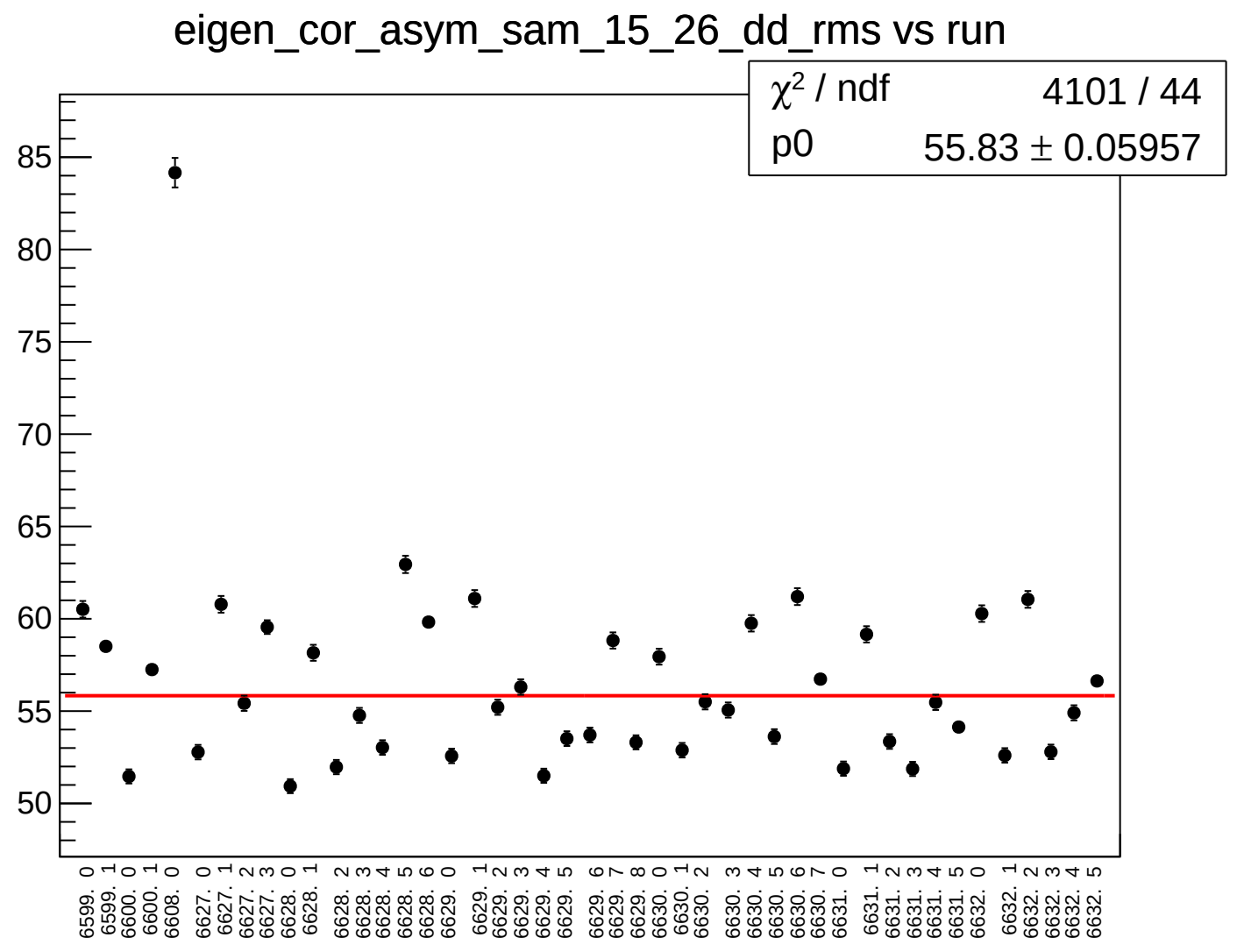
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 141.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.0175
Std Dev 1.091
7
6
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 4101 / 44
p0 55.83 ± 0.05957
85
80
75
70
65
60
55
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6630. 3
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6630. 7
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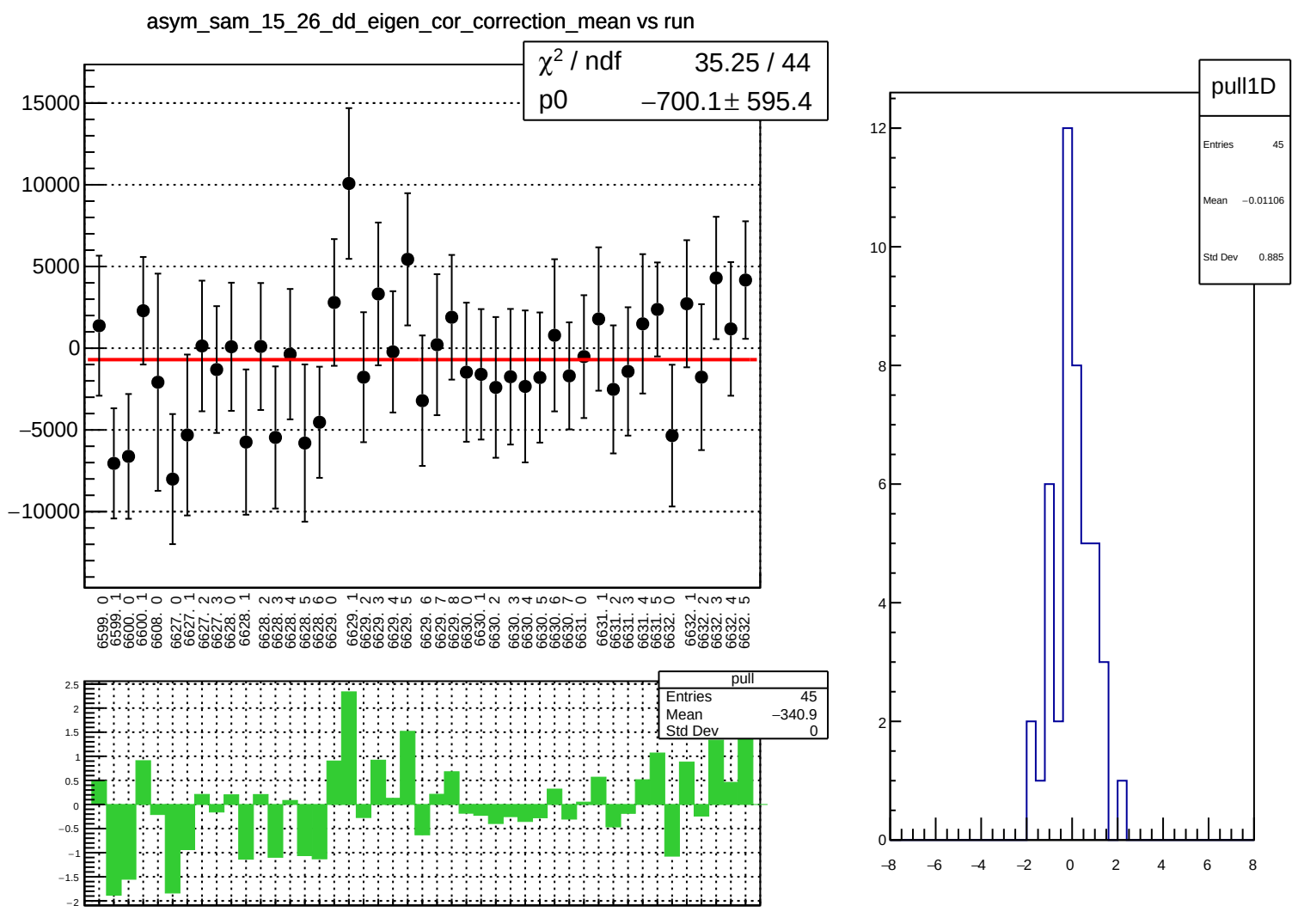
asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 35.25 / 44
p0 −700.1 ± 595.4
15000
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 2
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6630. 6
6630. 7
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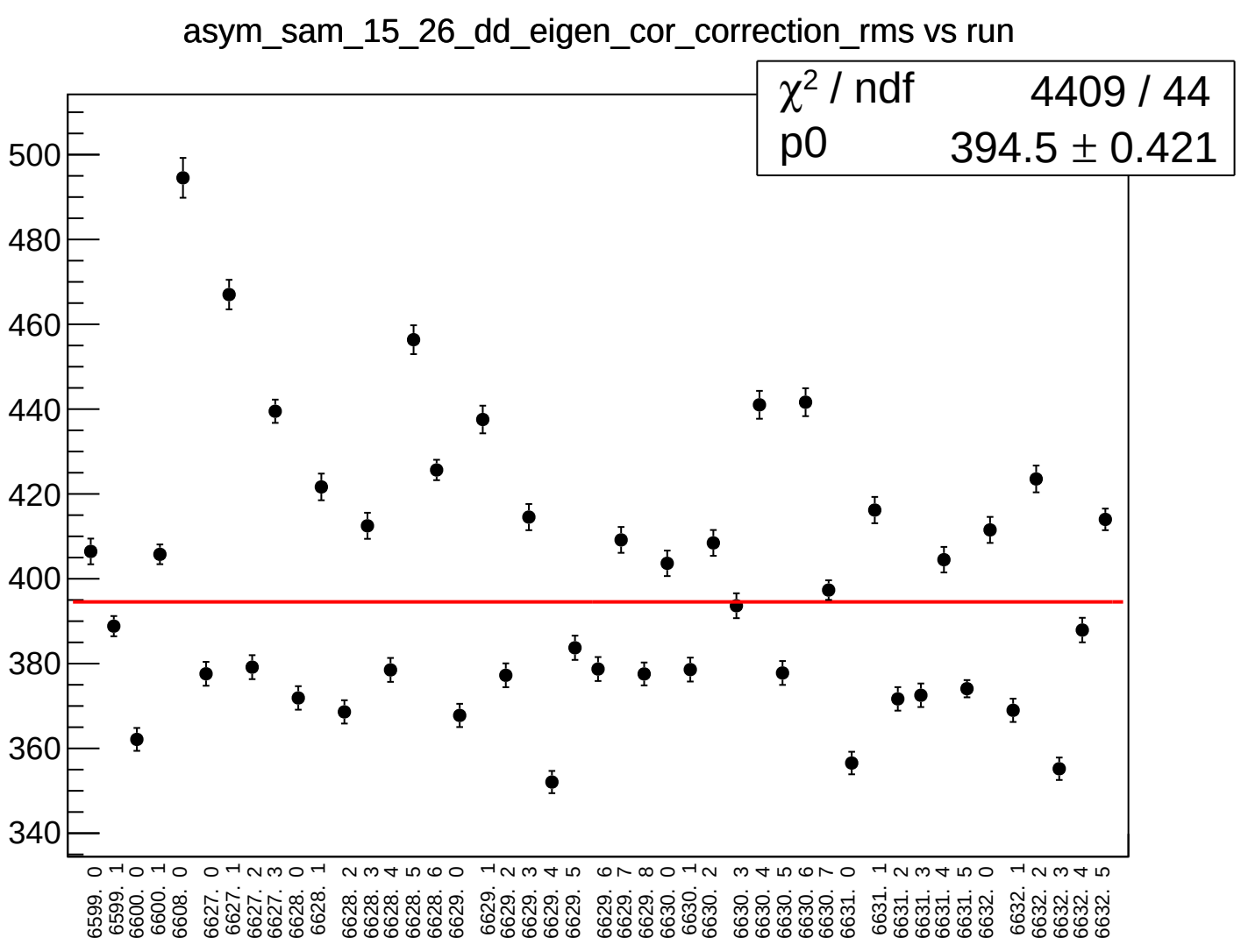
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −340.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01106
Std Dev 0.885
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 4409 / 44
p0 394.5 ± 0.421
500
480
460
440
420
400
380
360
340
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6628. 6
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6629. 1
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6630. 1
6630. 2
6630. 3
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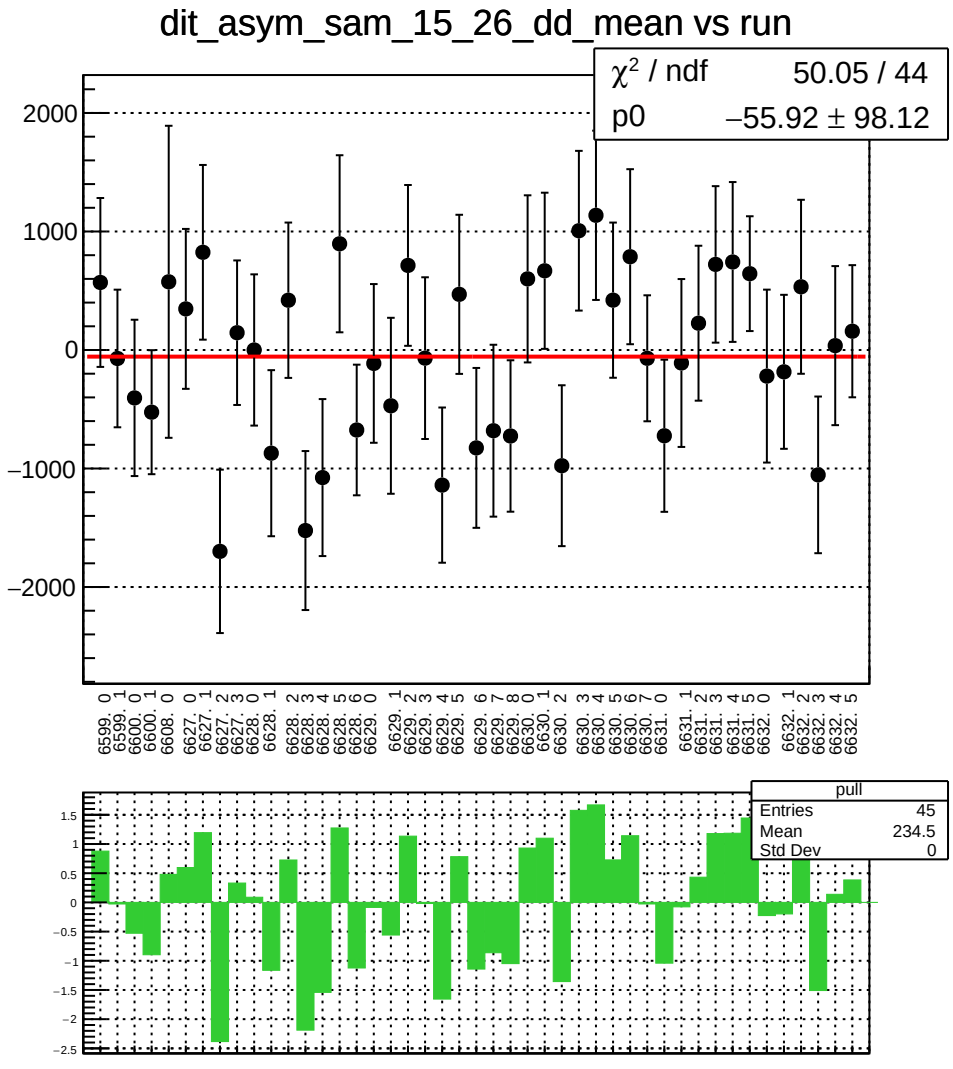
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 50.05 / 44
p0 −55.92 ± 98.12
2000
1000
0
−1000
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6630. 2
6630. 3
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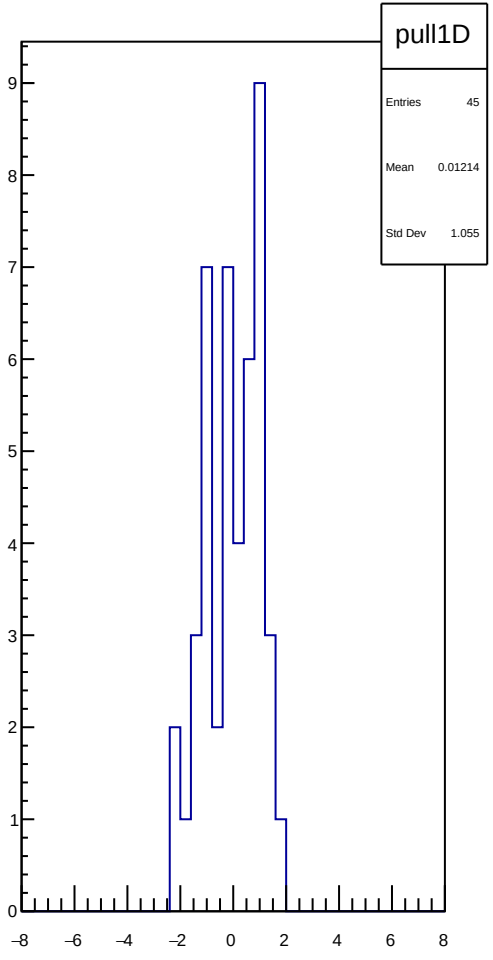
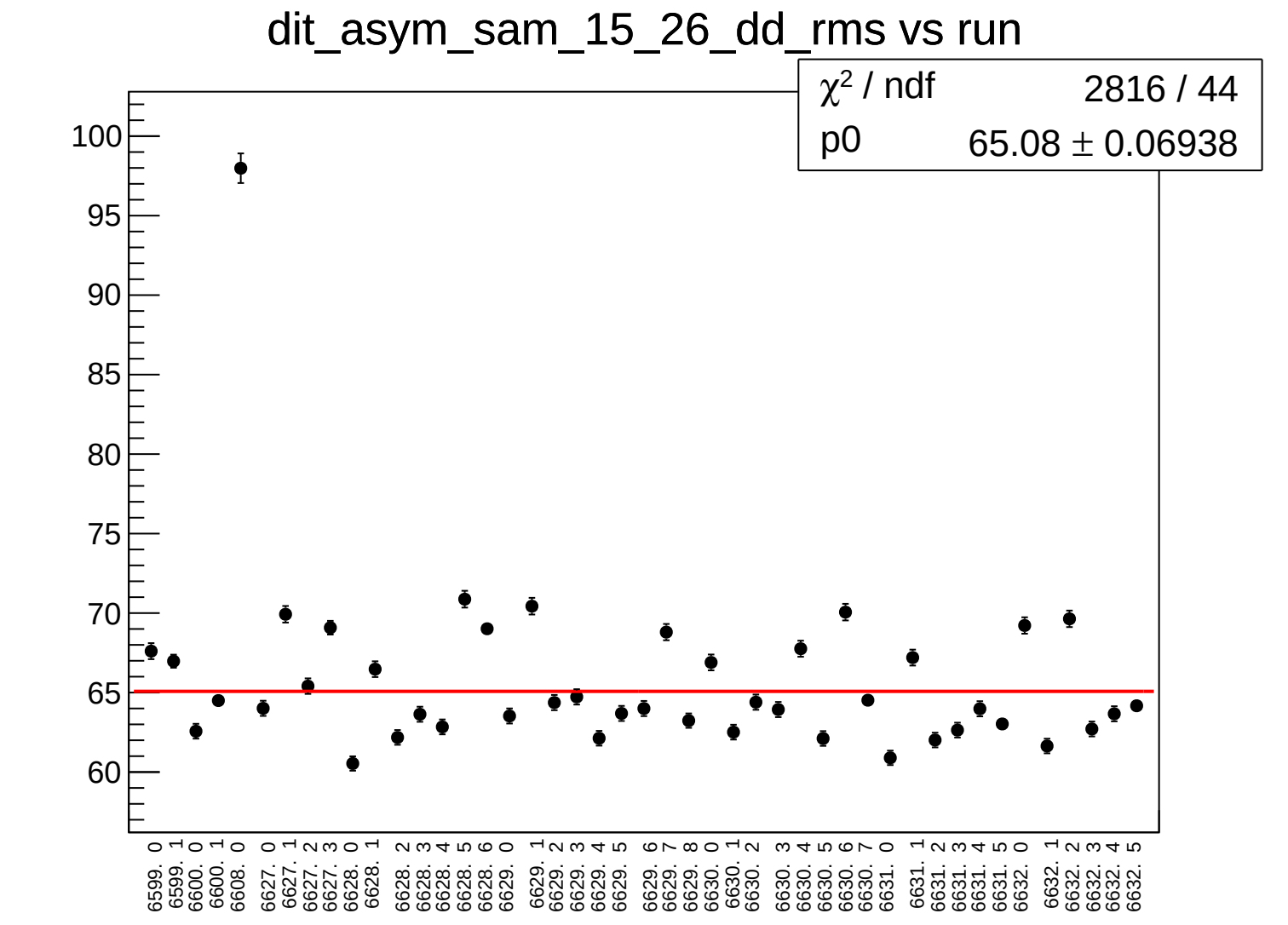
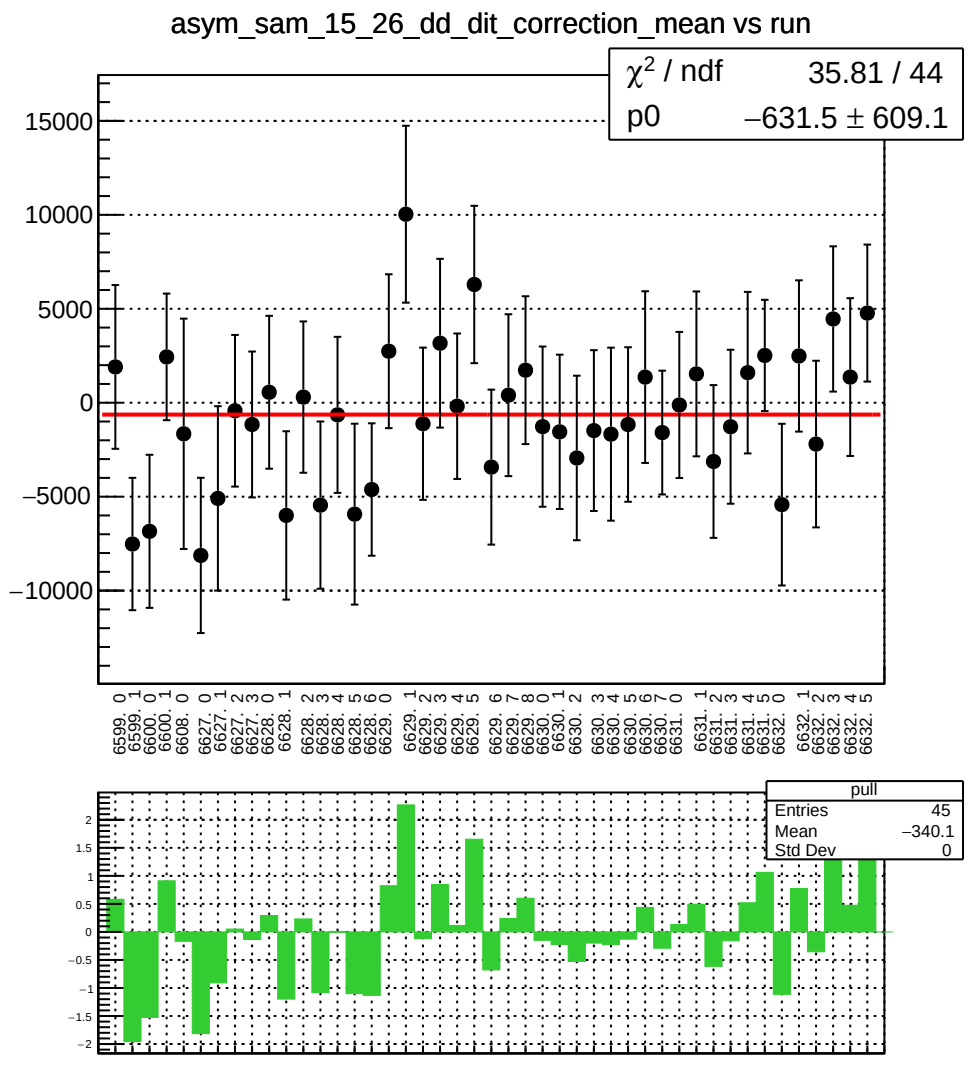
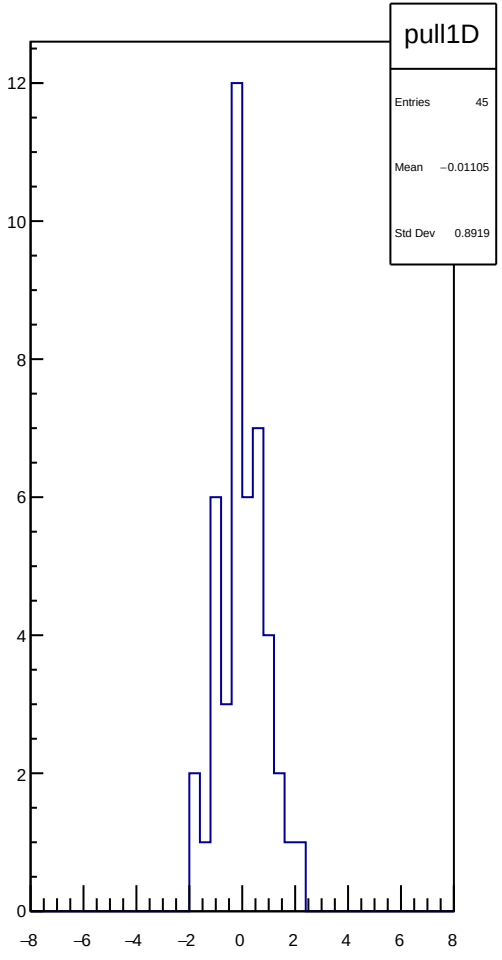
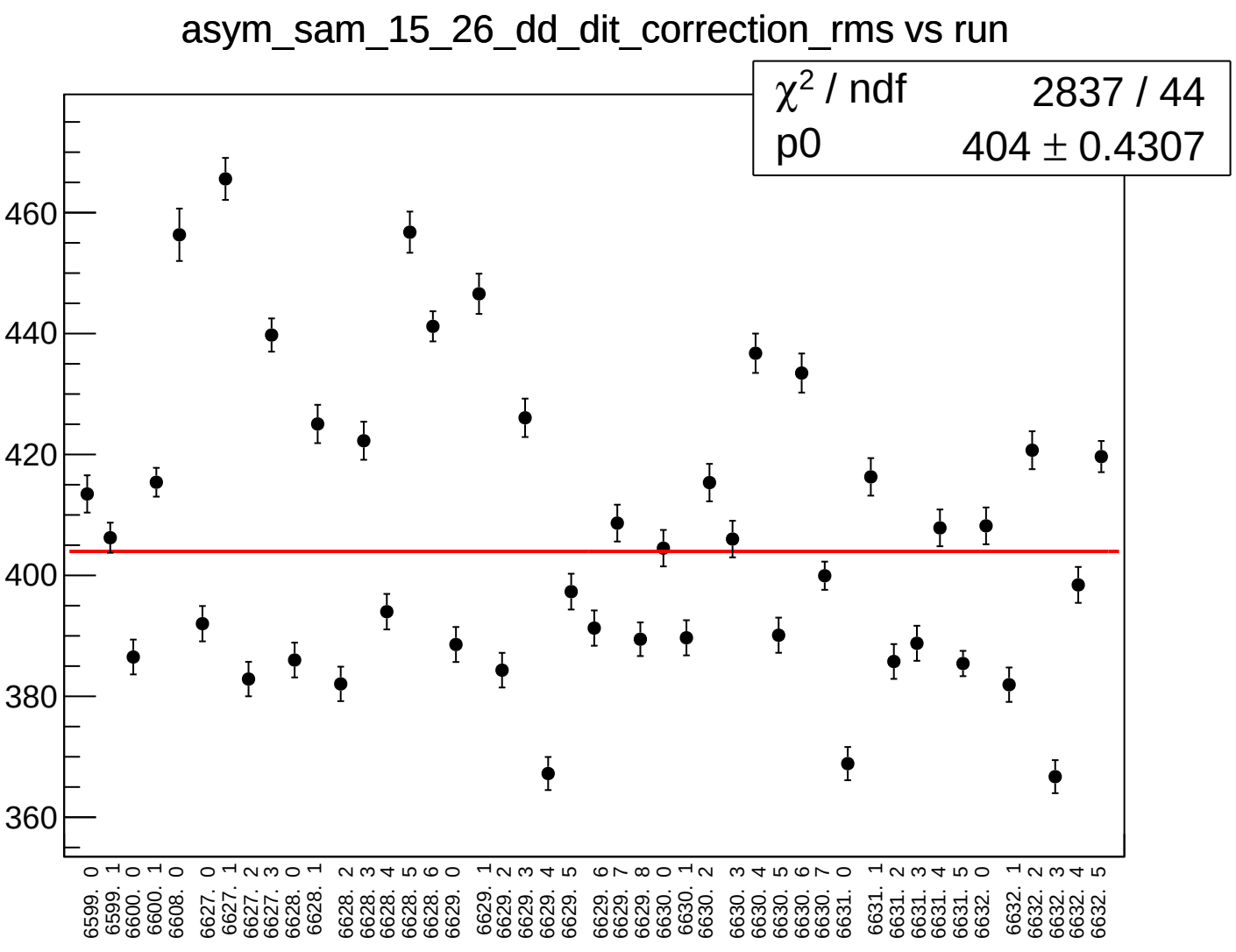
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 234.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

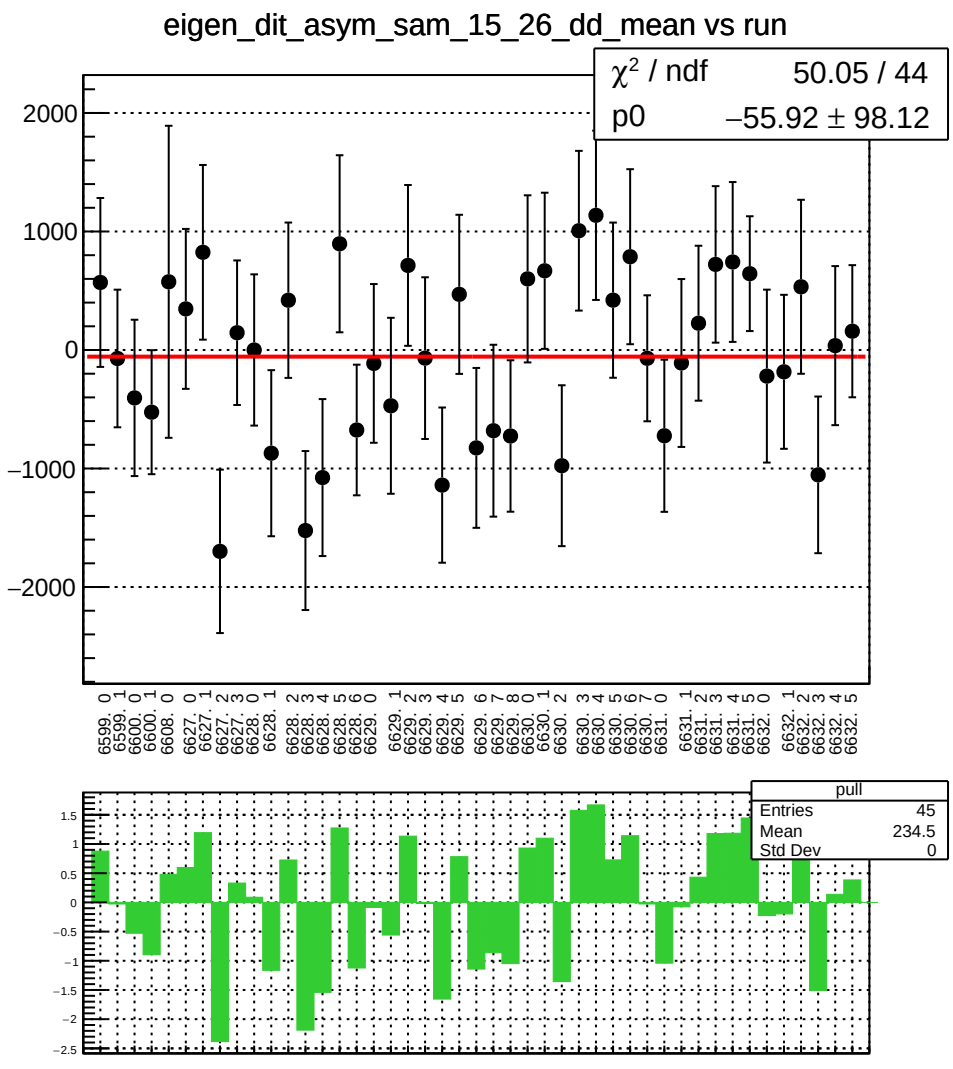

pull1D
Entries 45
Mean 0.01214
Std Dev 1.055
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

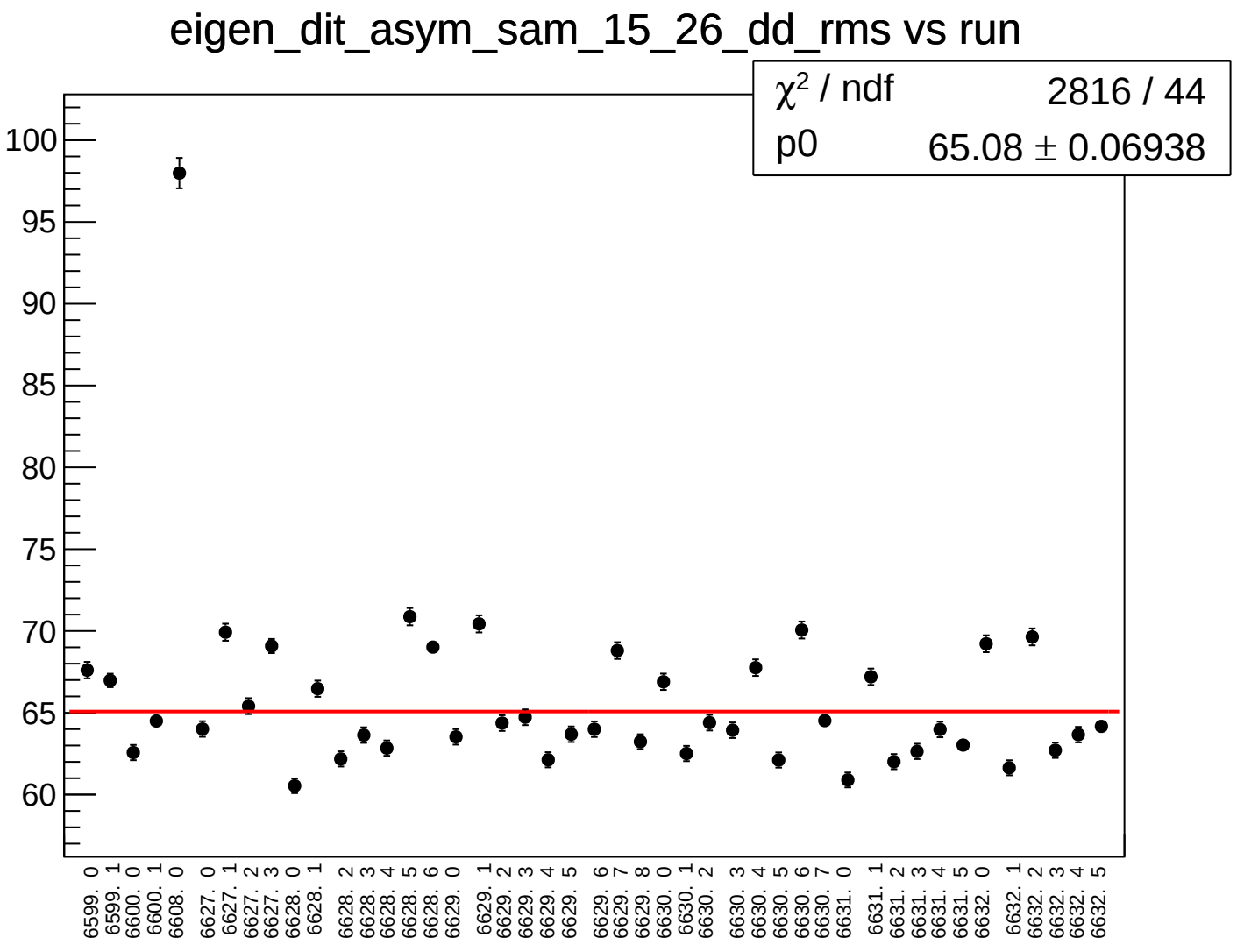

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2816 / 44
p0 65.08 ± 0.06938
100
95
90
85
80
75
70
65
60
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

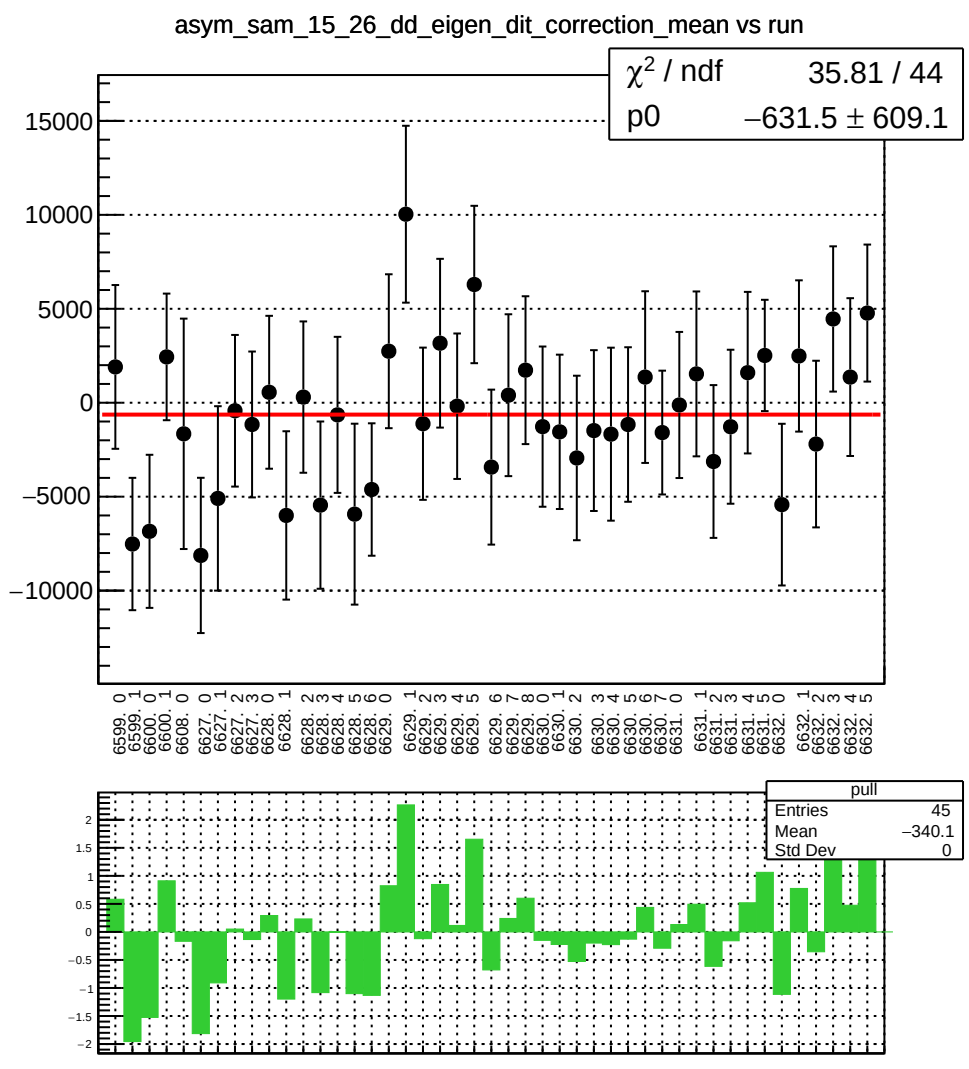

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 35.81 / 44
p0 −631.5 ± 609.1
15000
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −340.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

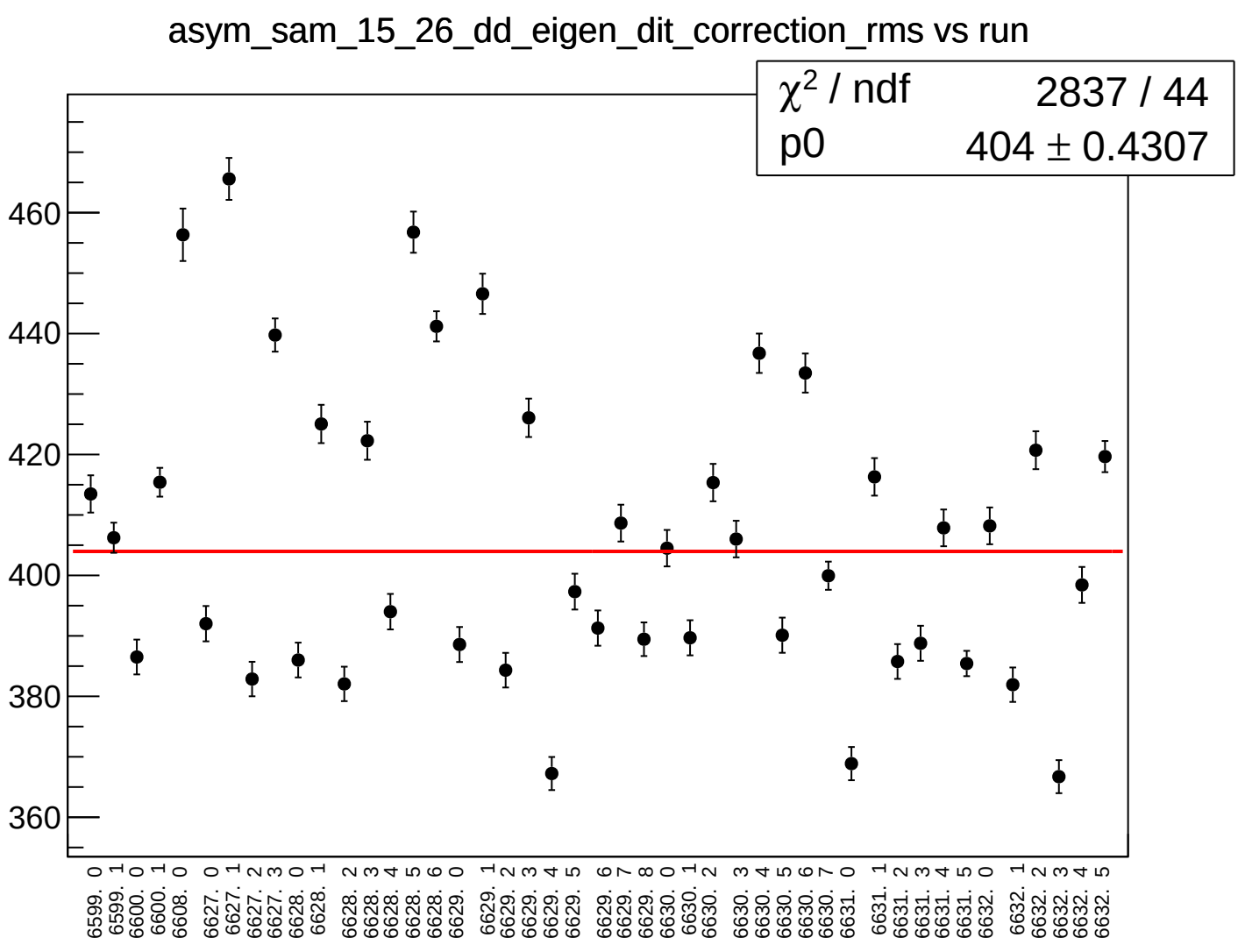

pull1D
Entries 45
Mean −0.01105
Std Dev 0.8919
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

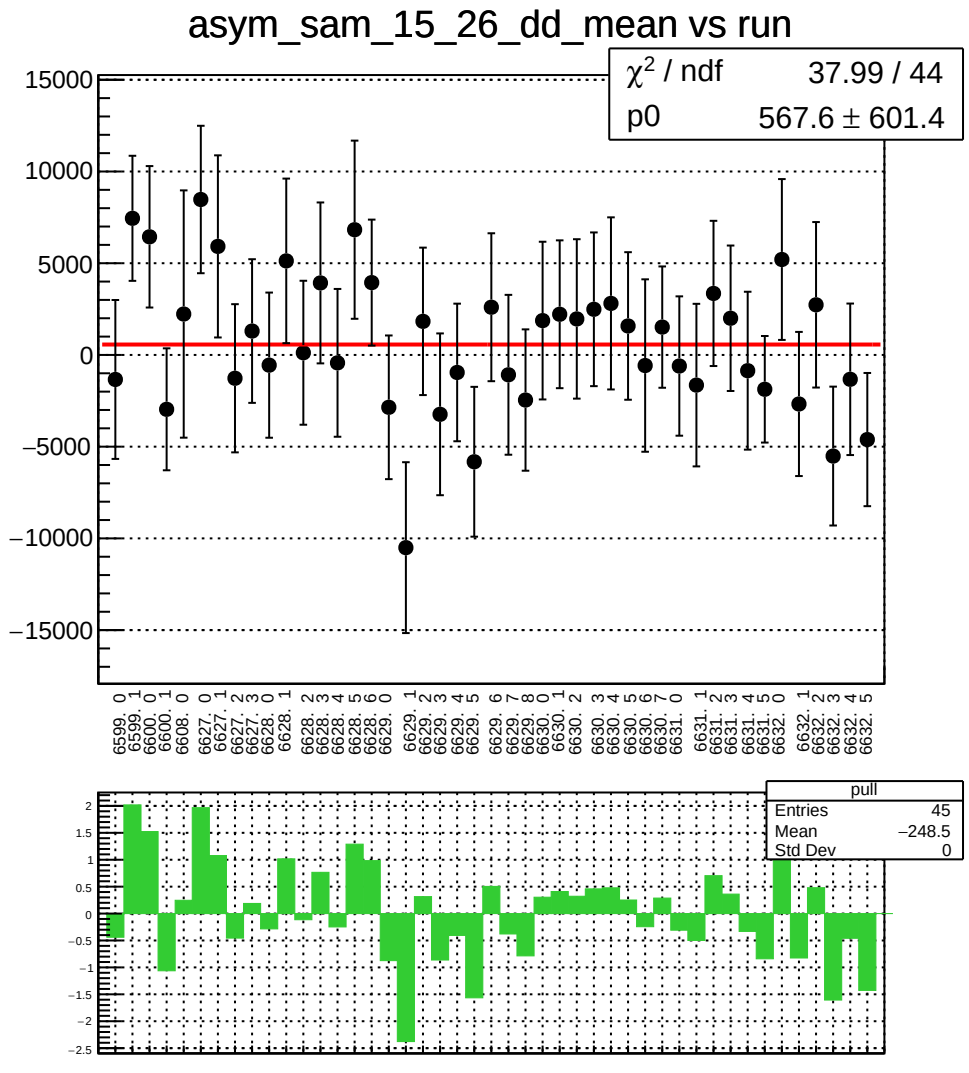

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 2837 / 44
p0 404 ± 0.4307
460
440
420
400
380
360
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

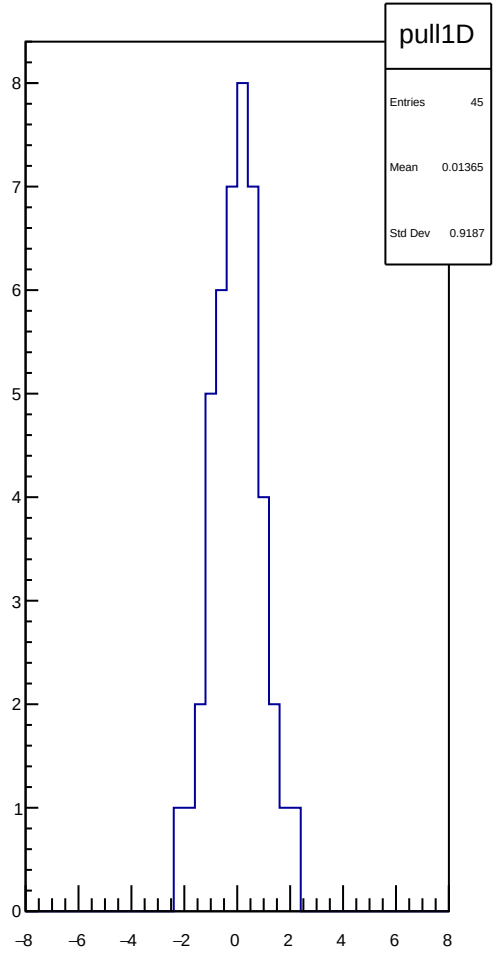

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 50.05 / 44
p0 −55.92 ± 98.12
2000
1000
0
−1000
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 234.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.01213
Std Dev 1.055
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

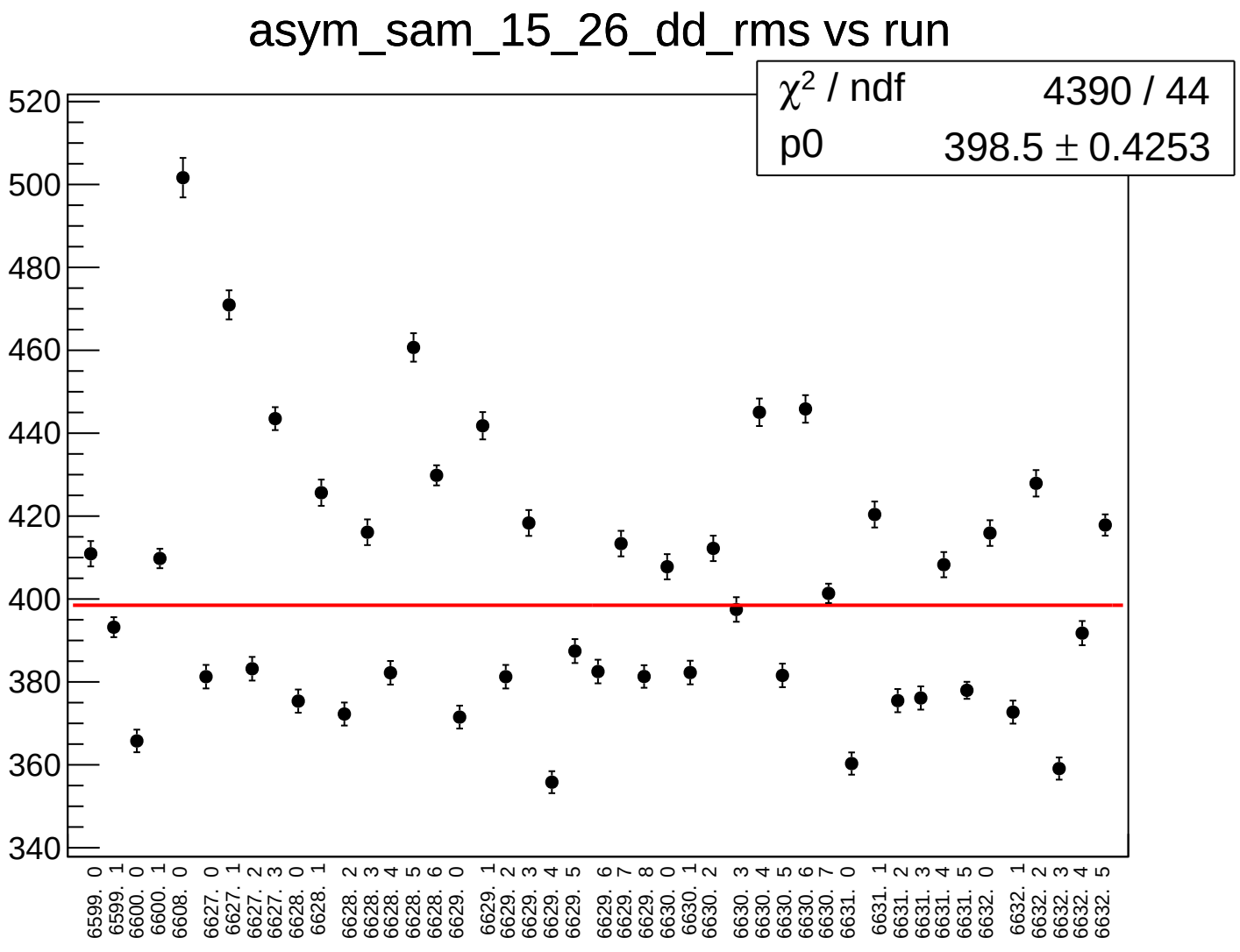

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2816 / 44
p0 65.08 ± 0.06938
100
95
90
85
80
75
70
65
60
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

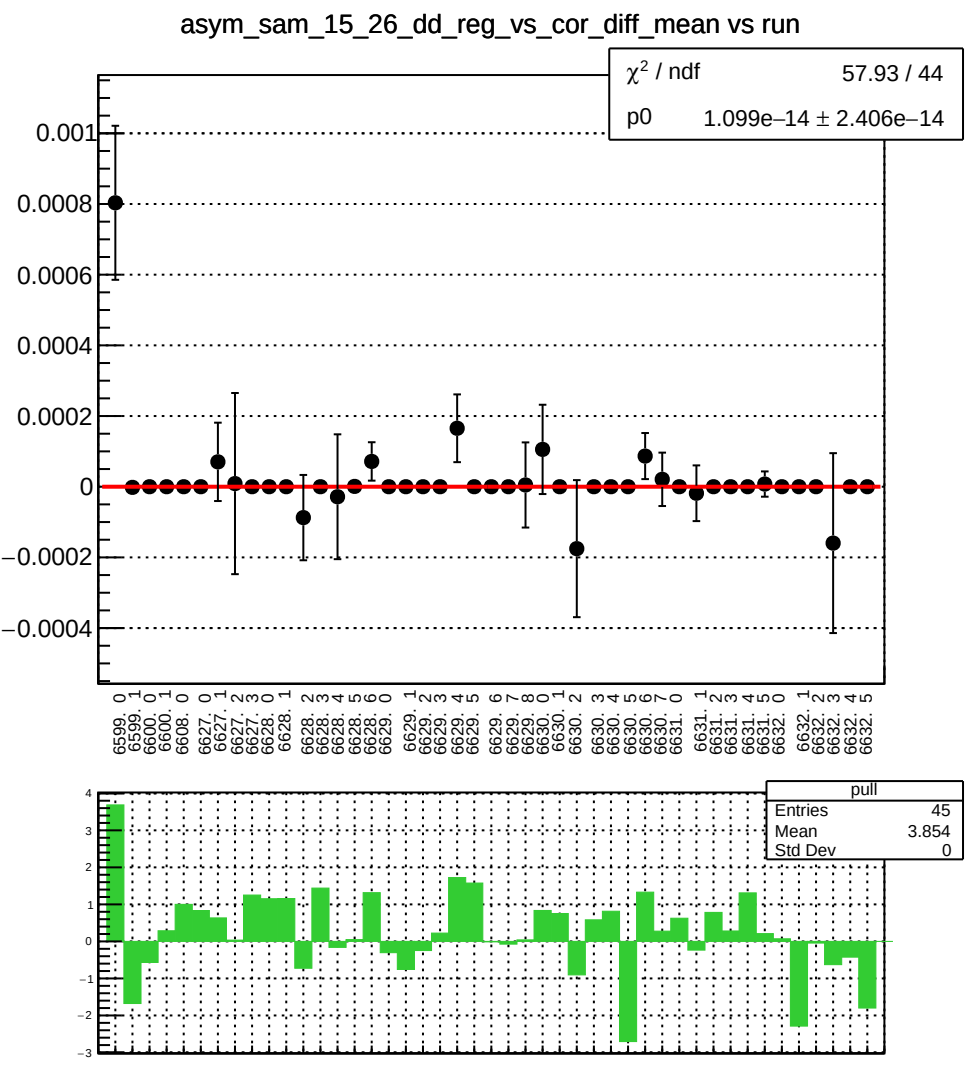

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 35.81 / 44
p0 −631.5 ± 609.1
15000
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −340.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01105
Std Dev 0.8919
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

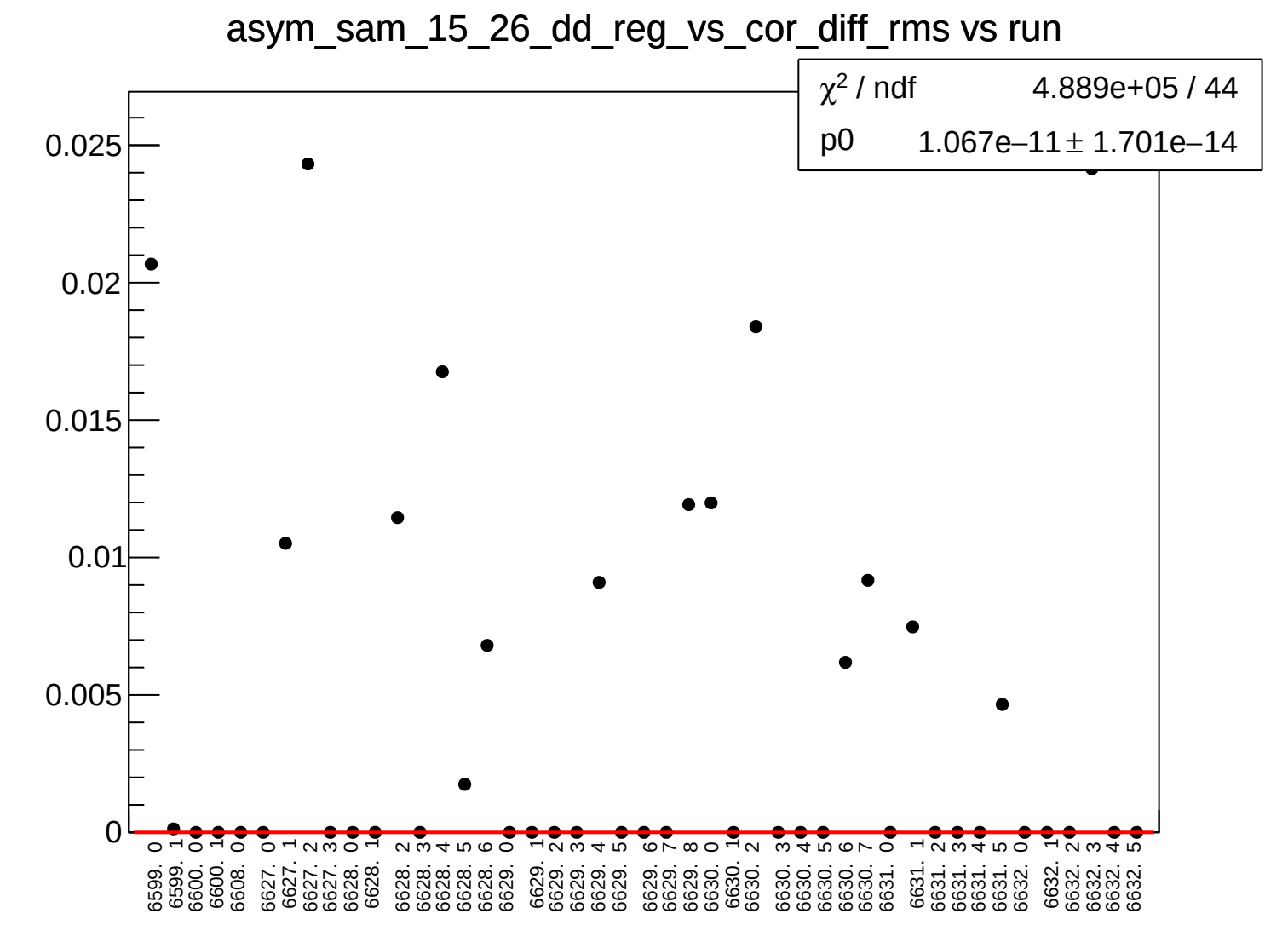

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 2837 / 44
p0 404 ± 0.4307
460
440
420
400
380
360
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

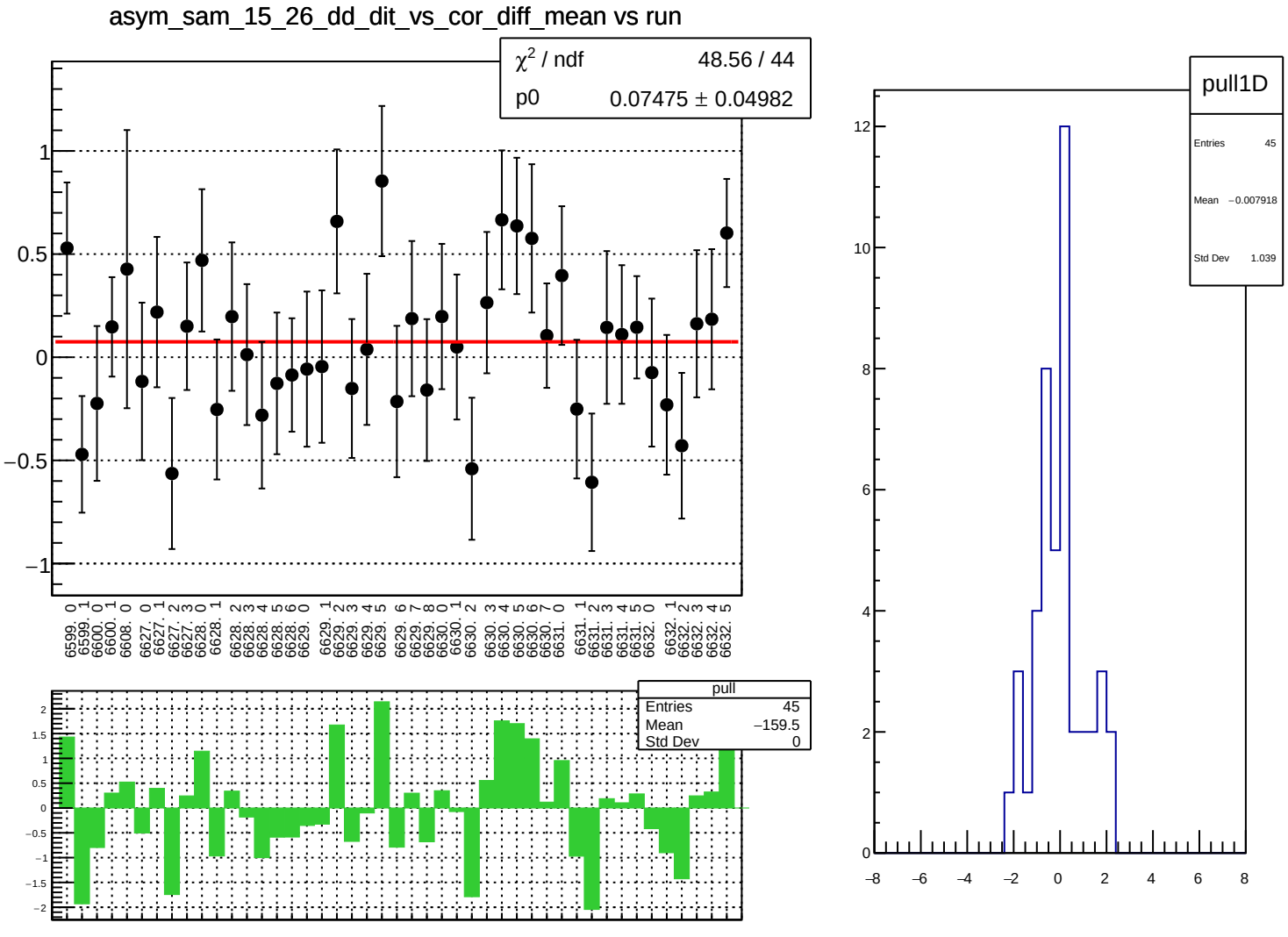

asym_sam_15_26_dd_mean vs run
χ² / ndf 37.99 / 44
p0 567.6 ± 601.4
15000
10000
5000
0
−5000
−10000
−15000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −248.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

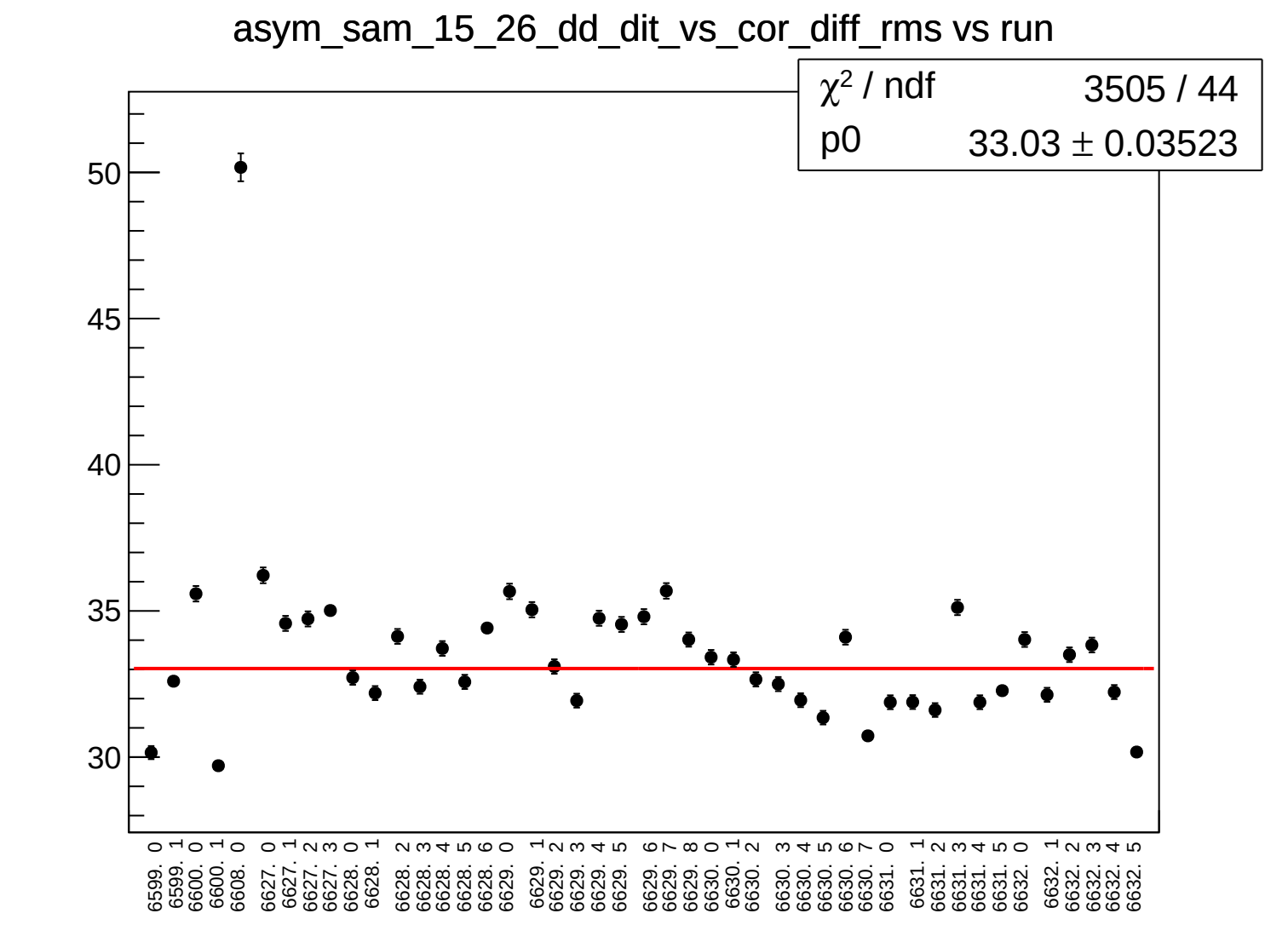

pull1D
Entries 45
Mean 0.01365
Std Dev 0.9187
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

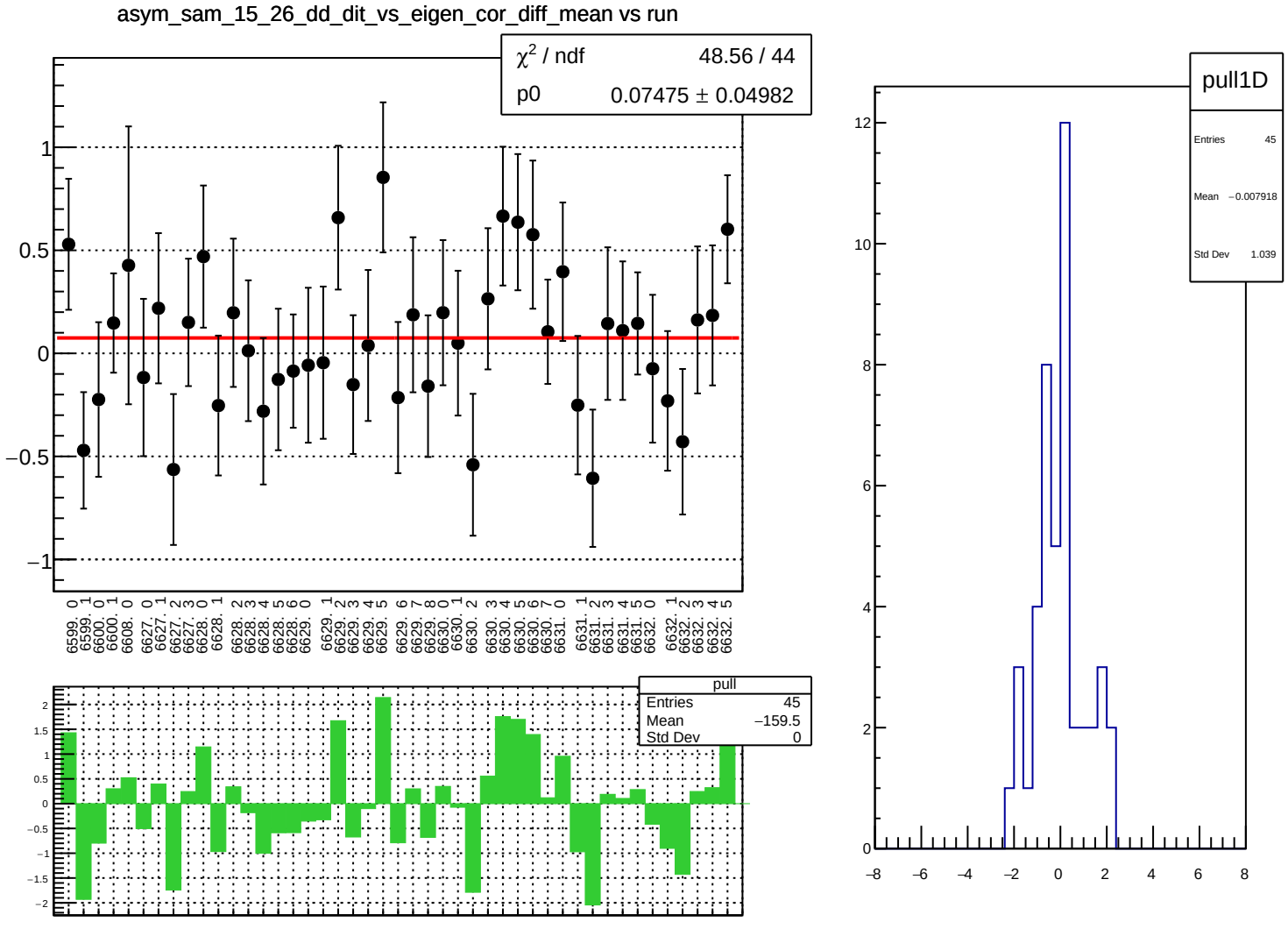

asym_sam_15_26_dd_rms vs run
χ² / ndf 4390 / 44
p0 398.5 ± 0.4253
520
500
480
460
440
420
400
380
360
340
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

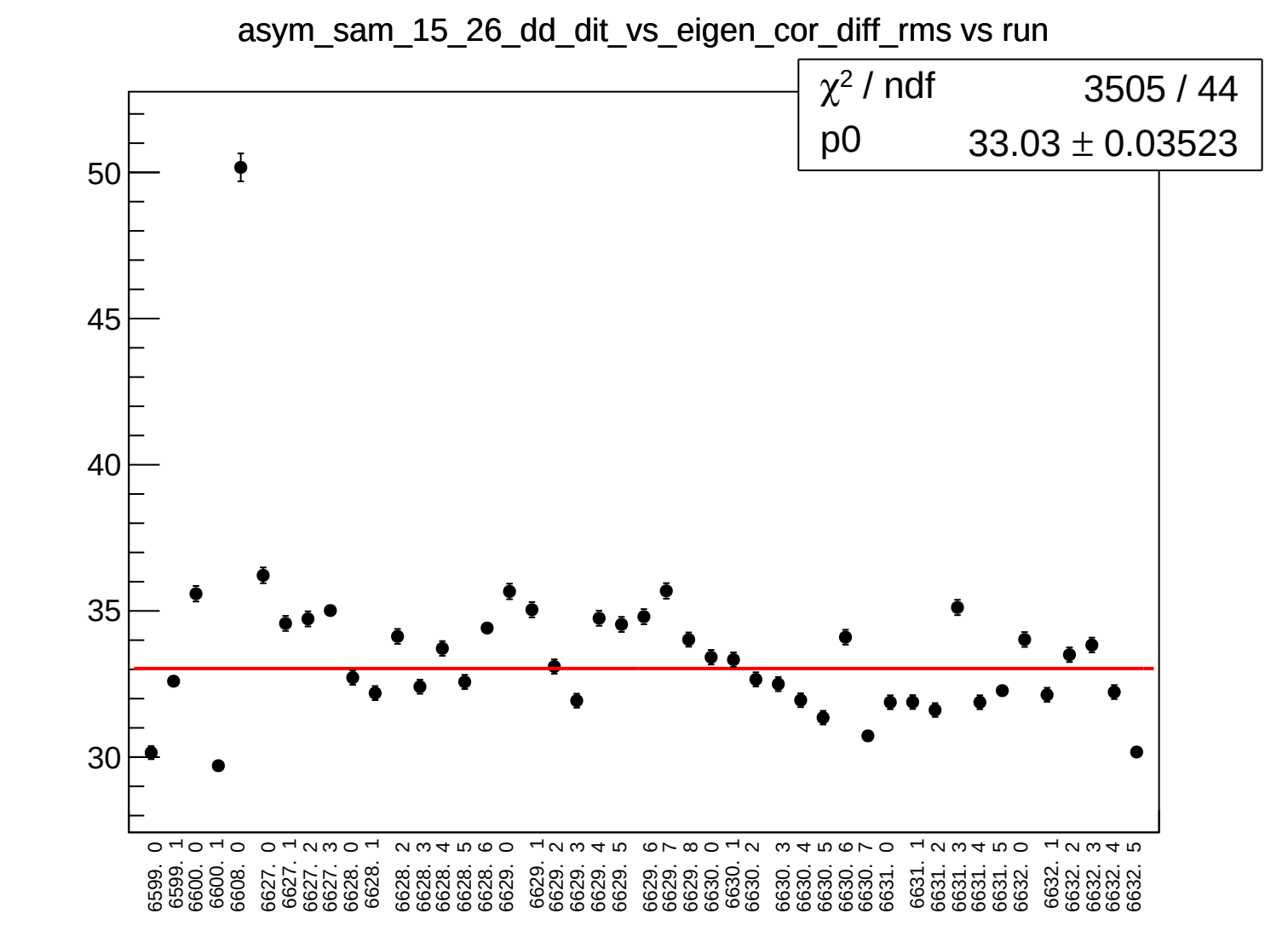

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 57.93 / 44
p0 1.099e−14 ± 2.406e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 3.854
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.2386
Std Dev 1.109
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

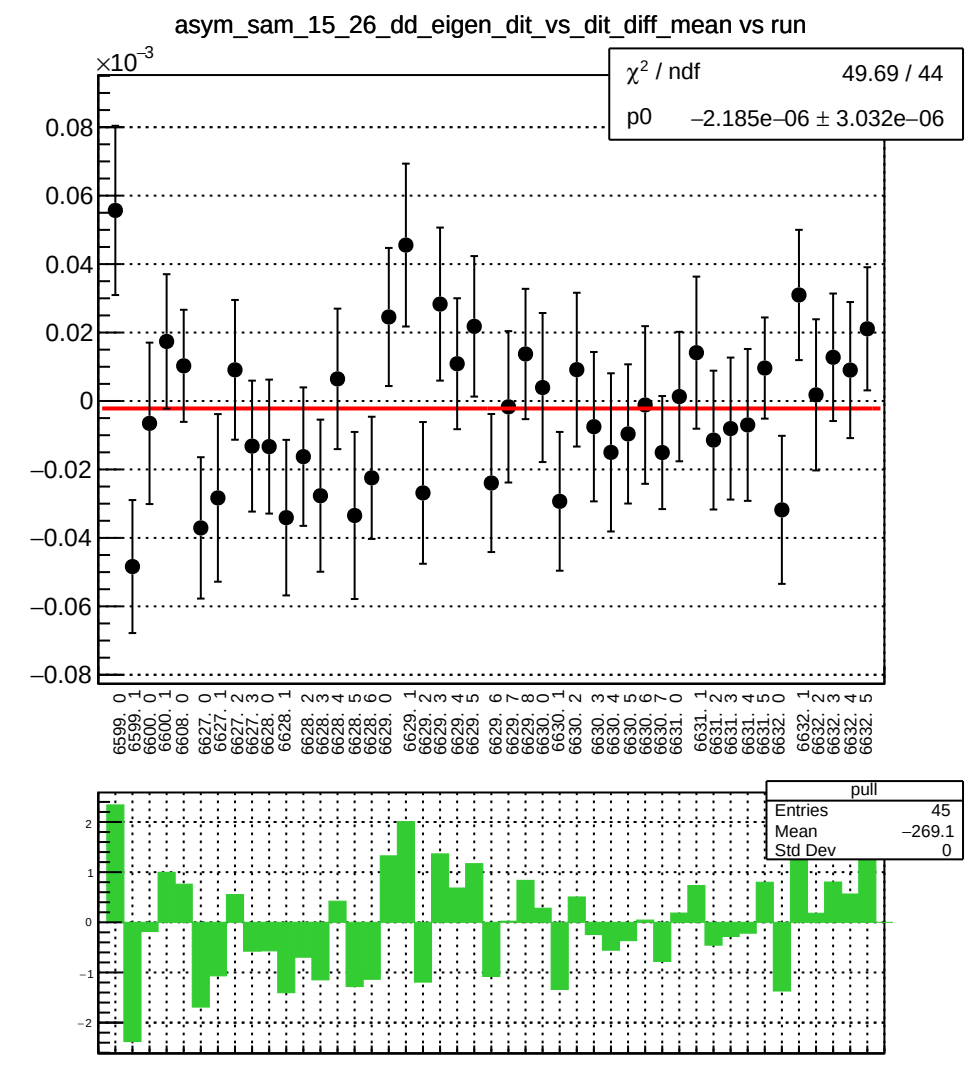

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.889e+05 / 44
p0 1.067e−11 ± 1.701e−14
0.025
0.02
0.015
0.01
0.005
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

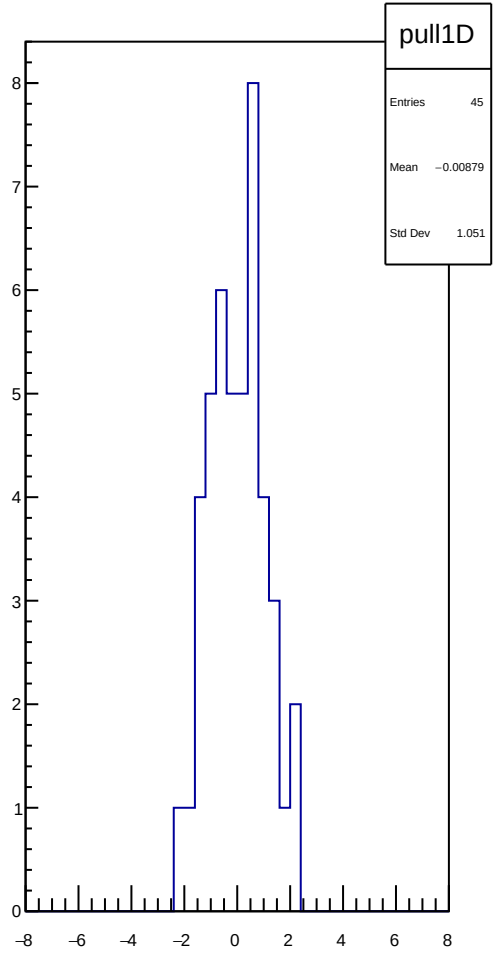

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 48.56 / 44
p0 0.07475 ± 0.04982
pull
Entries 45
Mean −159.5
Std Dev 0
pull1D
Entries 45
Mean −0.007918
Std Dev 1.039

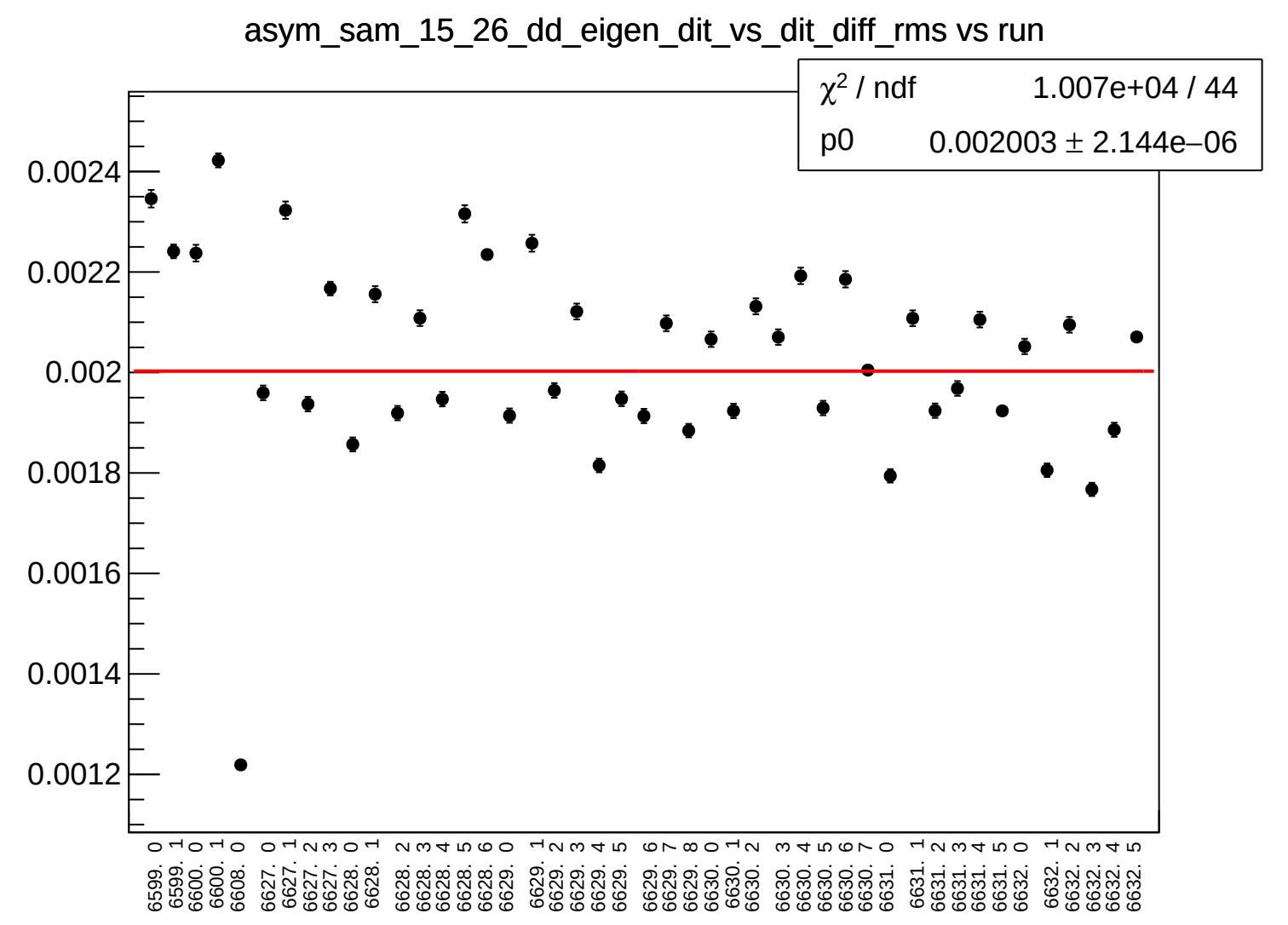

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3505 / 44
p0 33.03 ± 0.03523
50
45
40
35
30
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

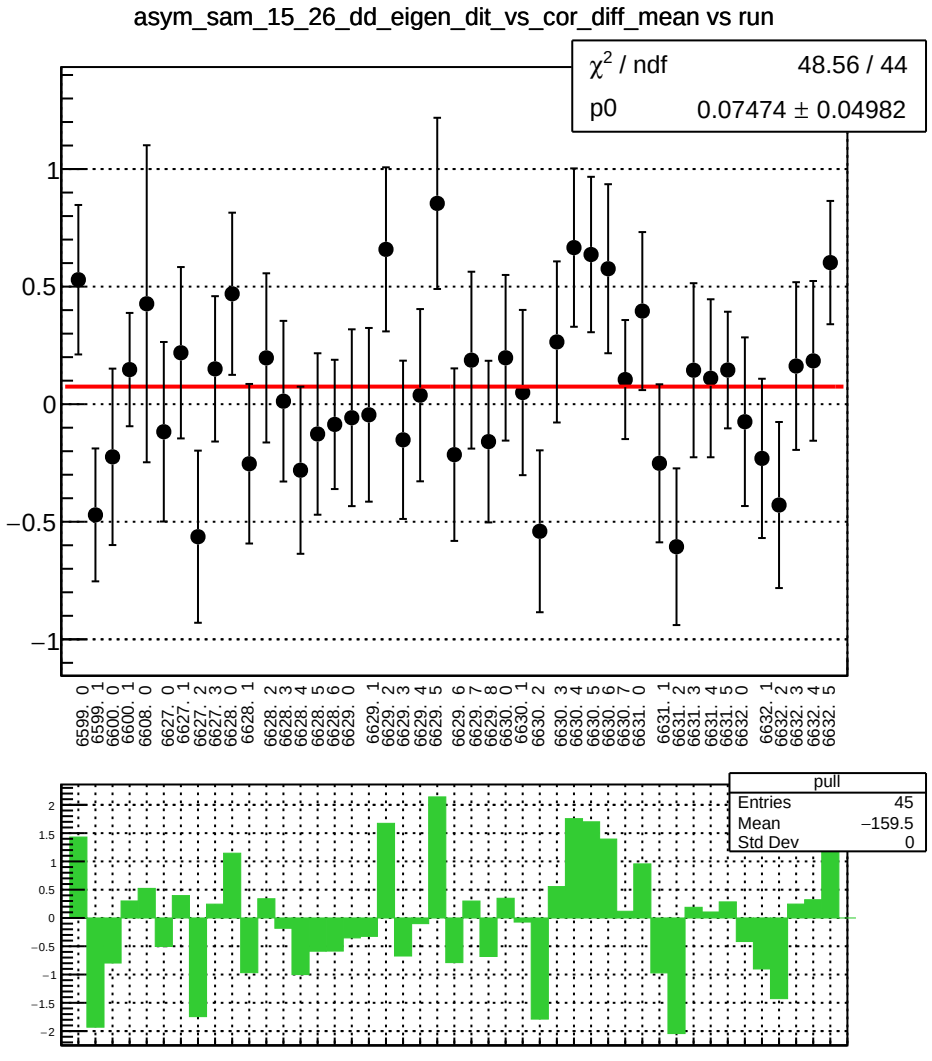

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.56 / 44
p0 0.07475 ± 0.04982
pull
Entries 45
Mean −159.5
Std Dev 0
pull1D
Entries 45
Mean −0.007918
Std Dev 1.039

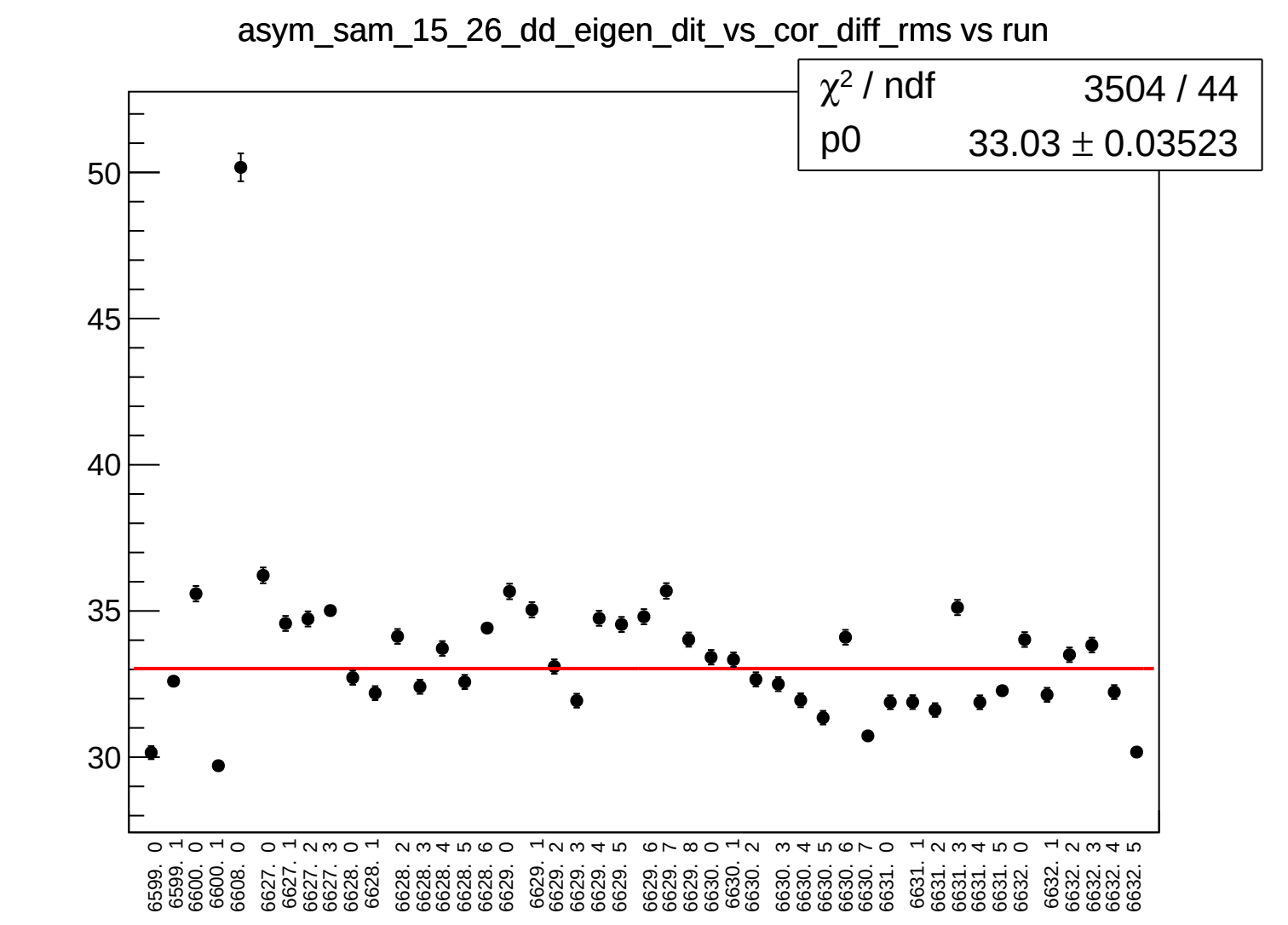

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3505 / 44
p0 33.03 ± 0.03523
50
45
40
35
30
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

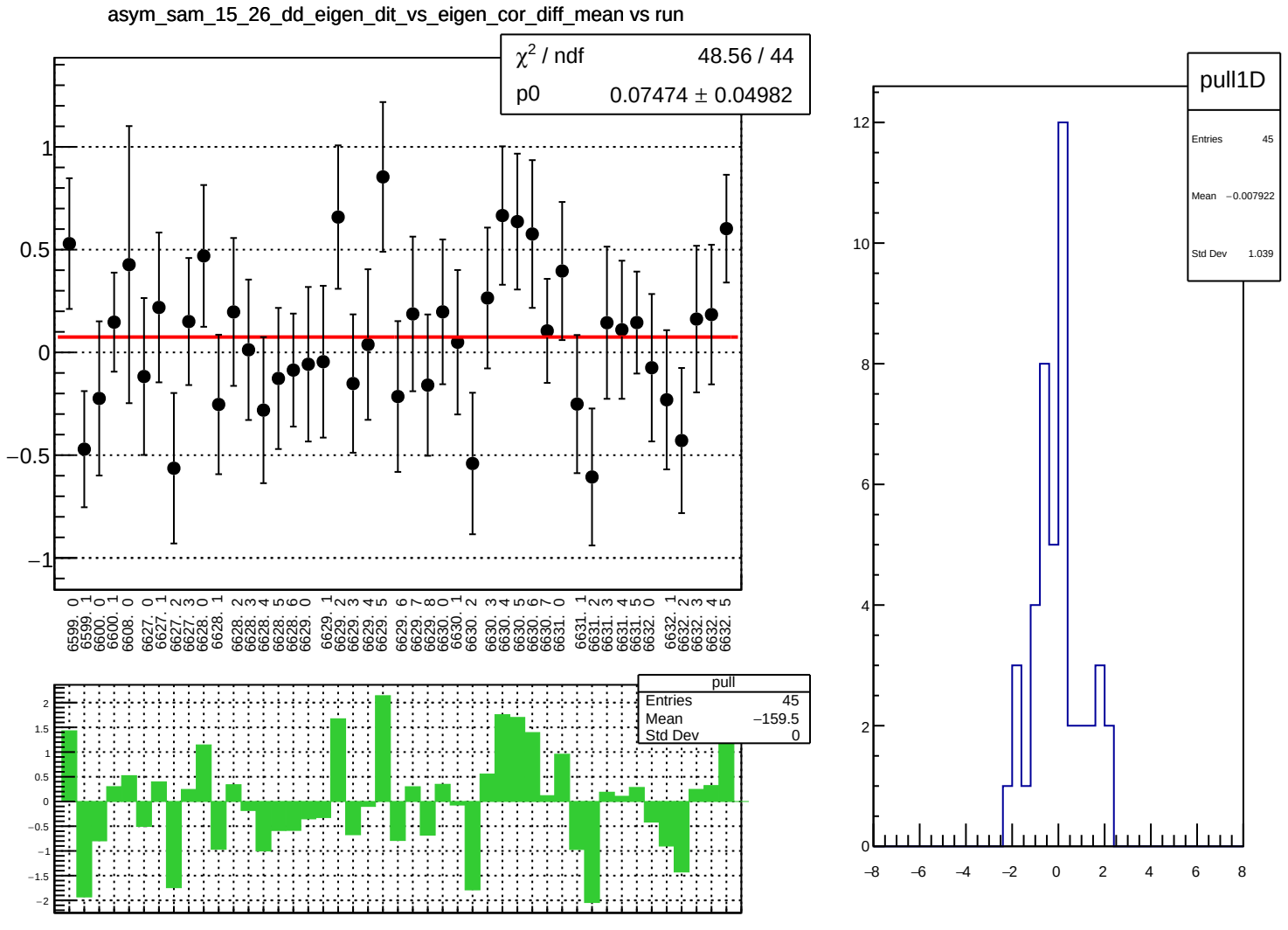

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 49.69 / 44
p0 −2.185e−06 ± 3.032e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −269.1
Std Dev 0
2
1
0
−1
−2

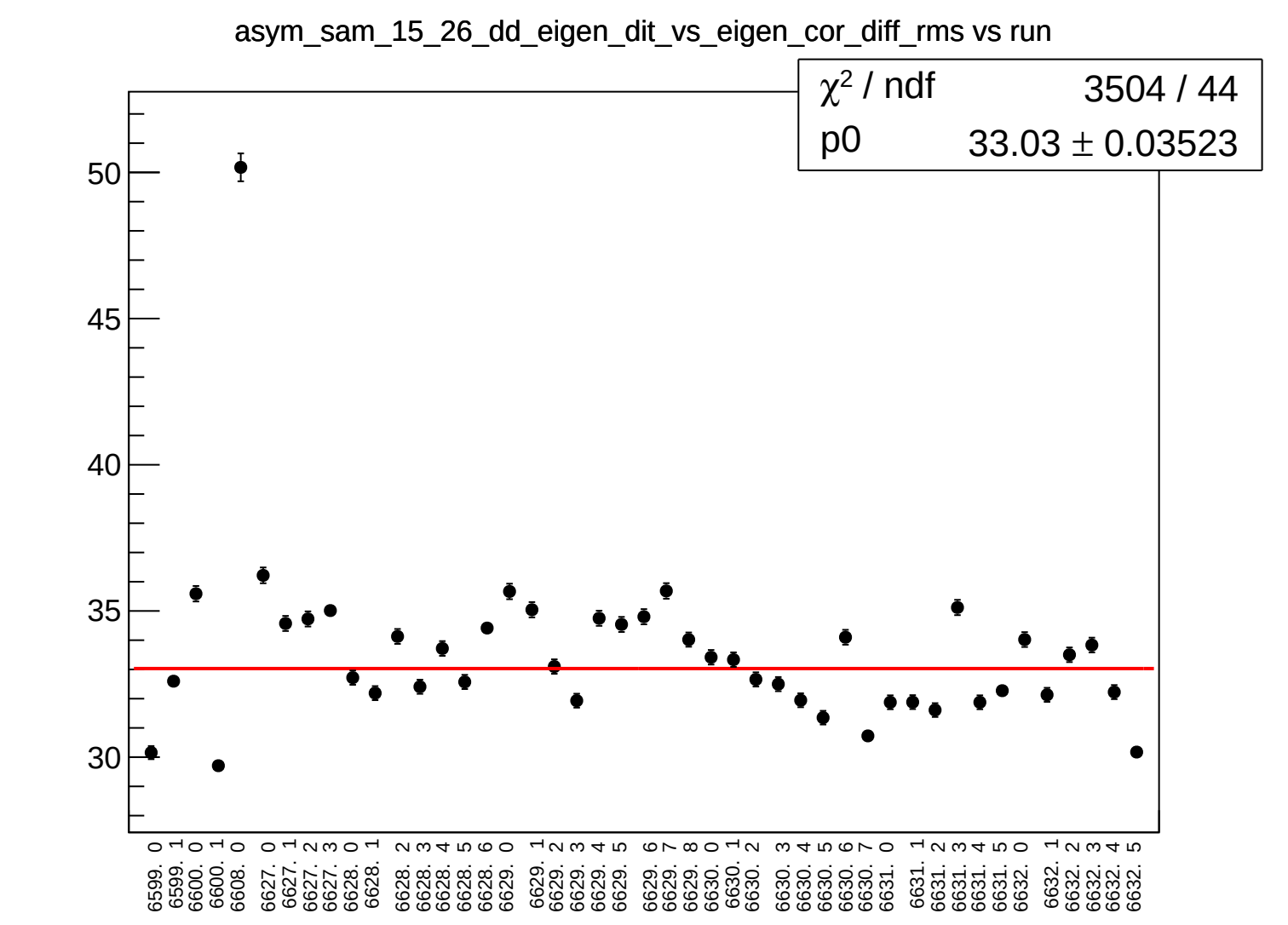

pull1D
Entries 45
Mean −0.00879
Std Dev 1.051
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.007e+04 / 44
p0 0.002003 ± 2.144e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 48.56 / 44
p0 0.07474 ± 0.04982
pull
Entries 45
Mean −159.5
Std Dev 0
pull1D
Entries 45
Mean −0.007922
Std Dev 1.039


asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3504 / 44
p0 33.03 ± 0.03523
50
45
40
35
30
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.56 / 44
p0 0.07474 ± 0.04982
pull
Entries 45
Mean −159.5
Std Dev 0
pull1D
Entries 45
Mean −0.007922
Std Dev 1.039


asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3504 / 44
p0 33.03 ± 0.03523
50
45
40
35
30
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
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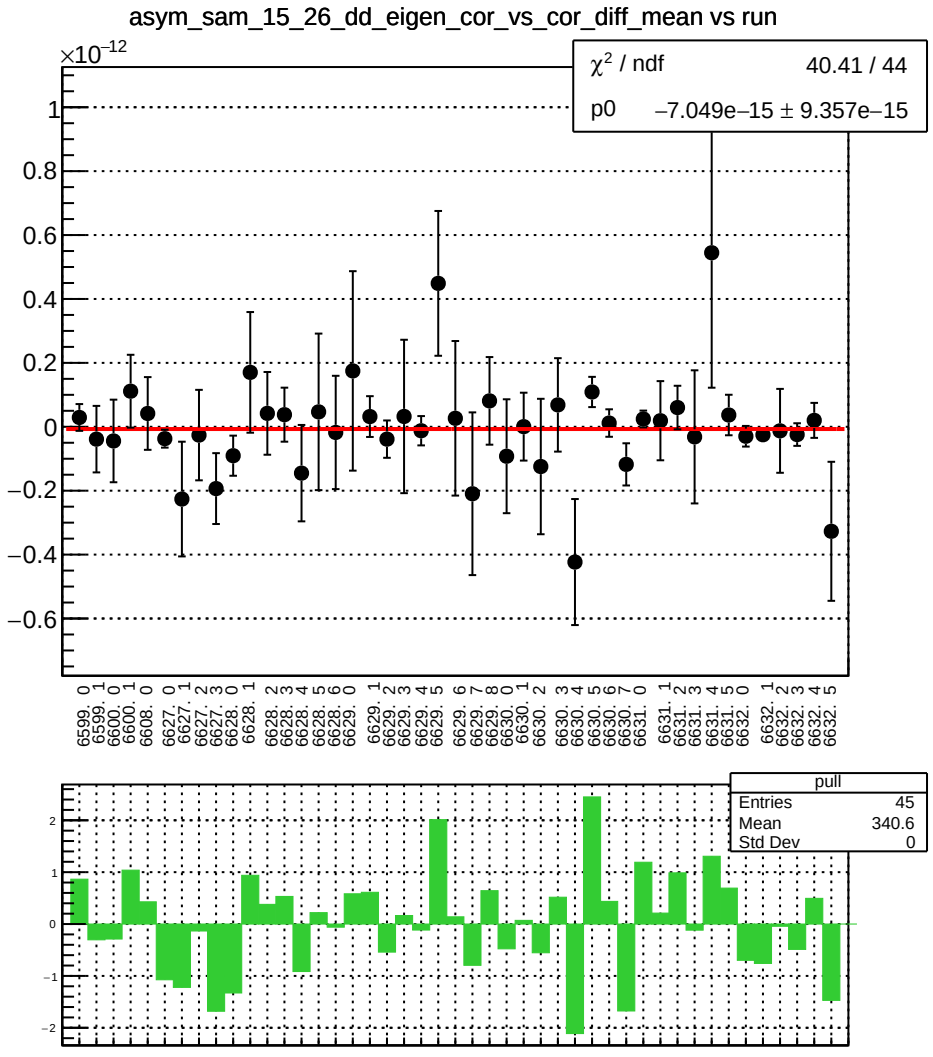
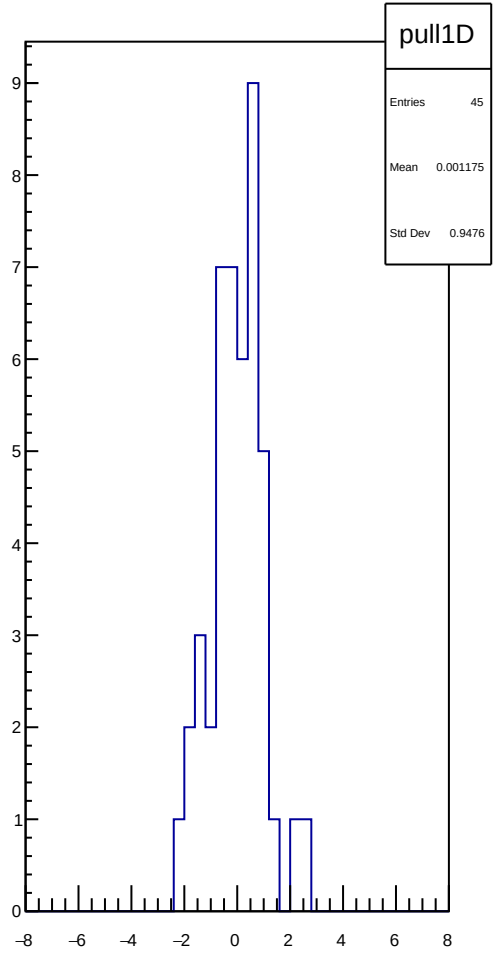
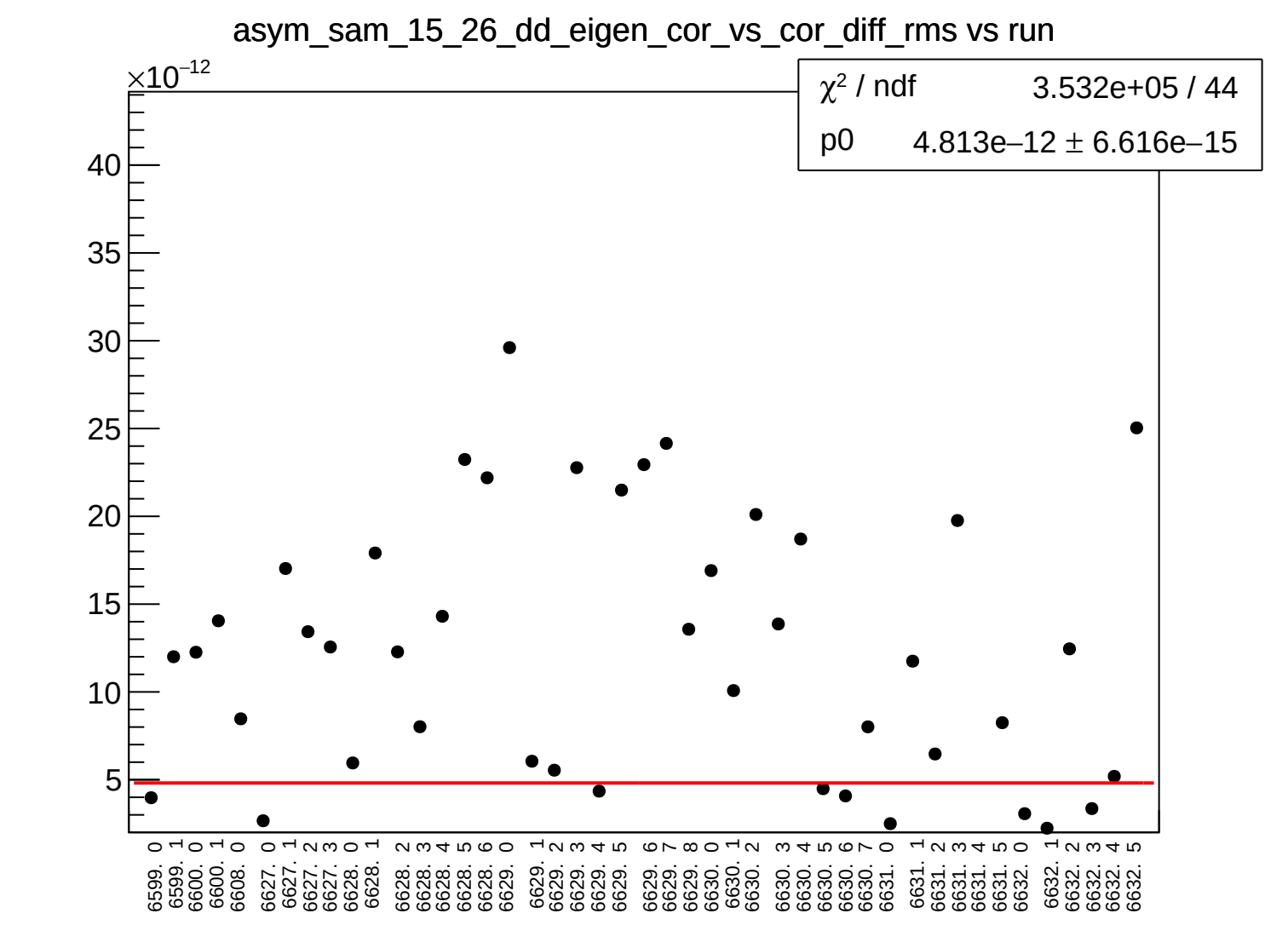
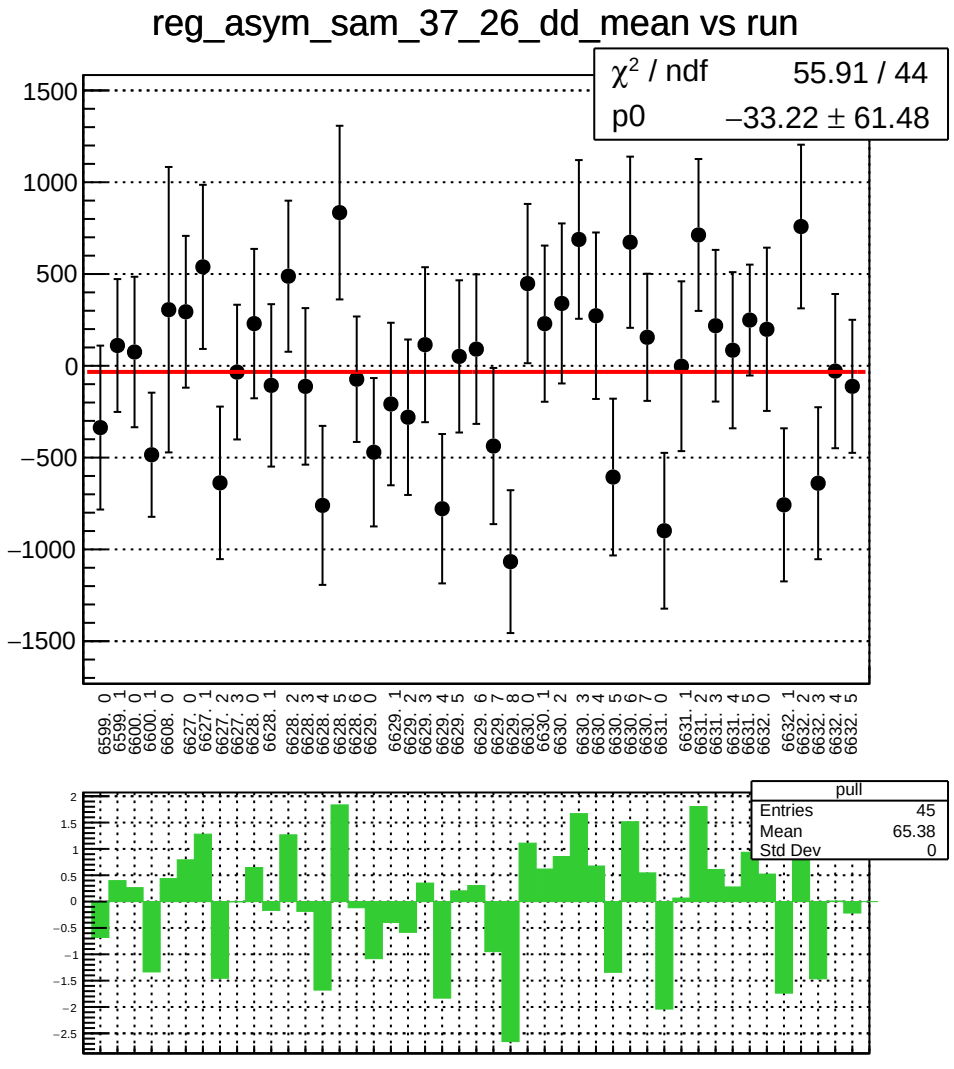
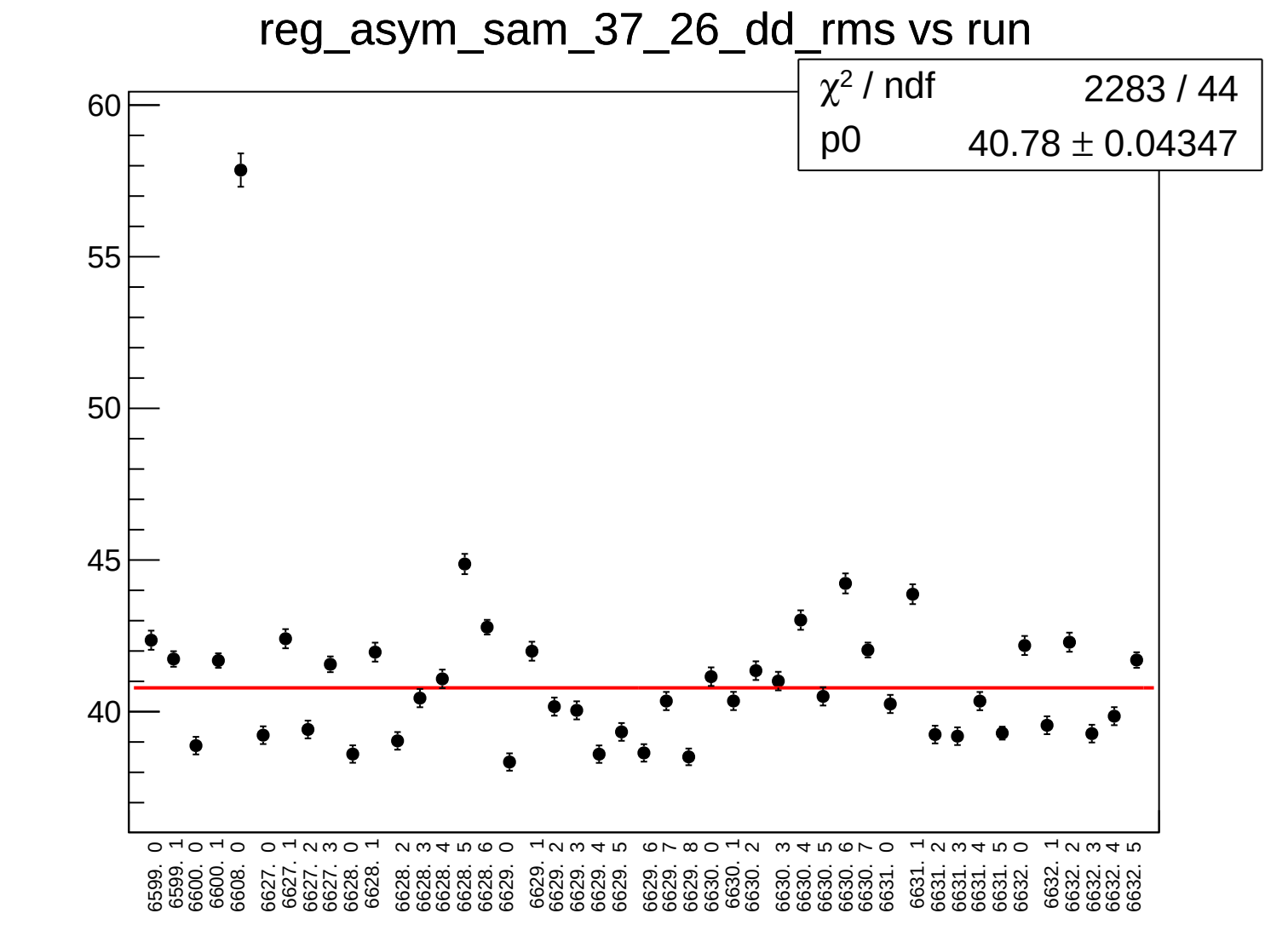
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

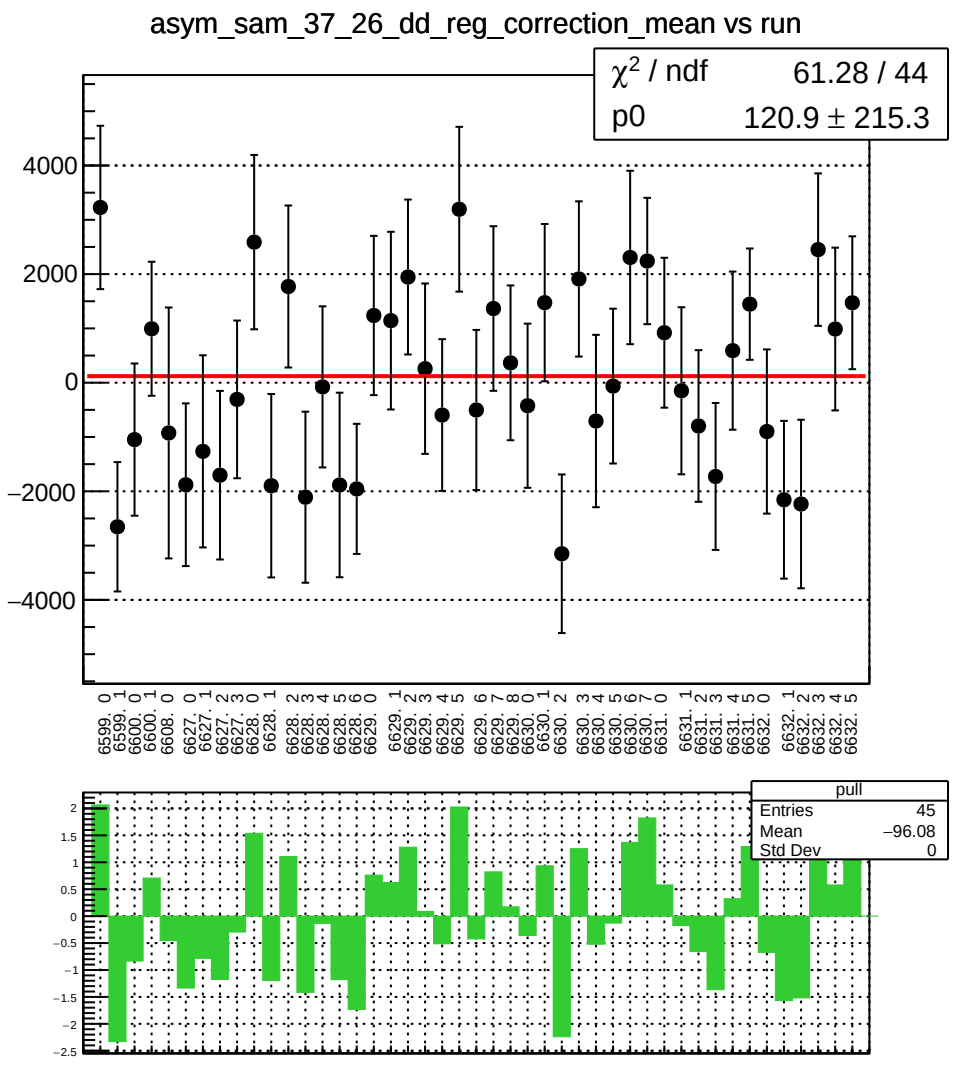

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 40.41 / 44
p0 −7.049e−15 ± 9.357e−15
pull
Entries 45
Mean 340.6
Std Dev 0

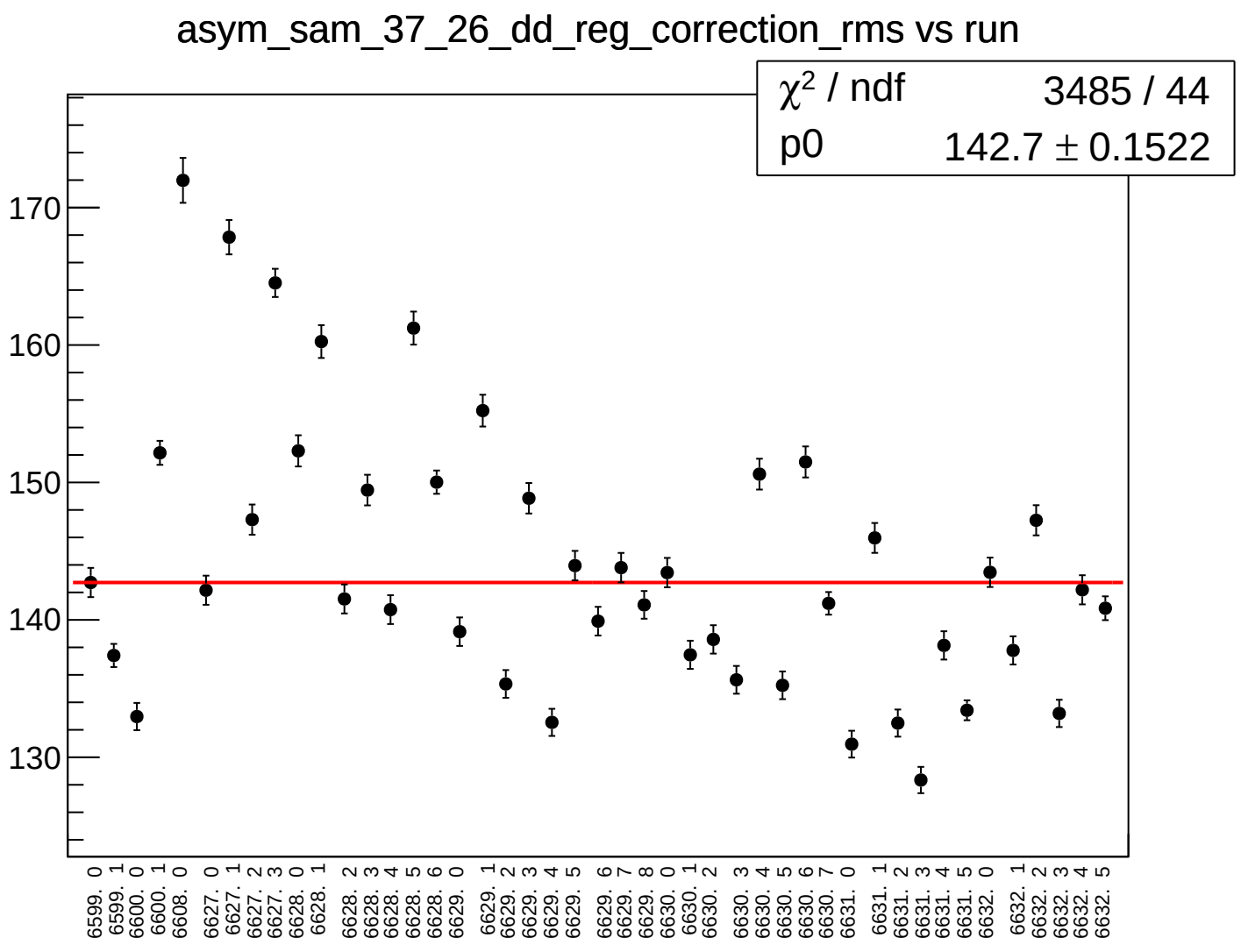

pull1D
Entries 45
Mean 0.001175
Std Dev 0.9476


asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.532e+05 / 44
p0 4.813e−12 ± 6.616e−15
40
35
30
25
20
15
10
5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 55.91 / 44
p0 −33.22 ± 61.48
1500
1000
500
0
−500
−1000
−1500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 65.38
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.01895
Std Dev 1.115
8
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 2283 / 44
p0 40.78 ± 0.04347
60
55
50
45
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 61.28 / 44
p0 120.9 ± 215.3
4000
2000
0
−2000
−4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −96.08
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.01989
Std Dev 1.167
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 3485 / 44
p0 142.7 ± 0.1522
170
160
150
140
130
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
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6629. 4
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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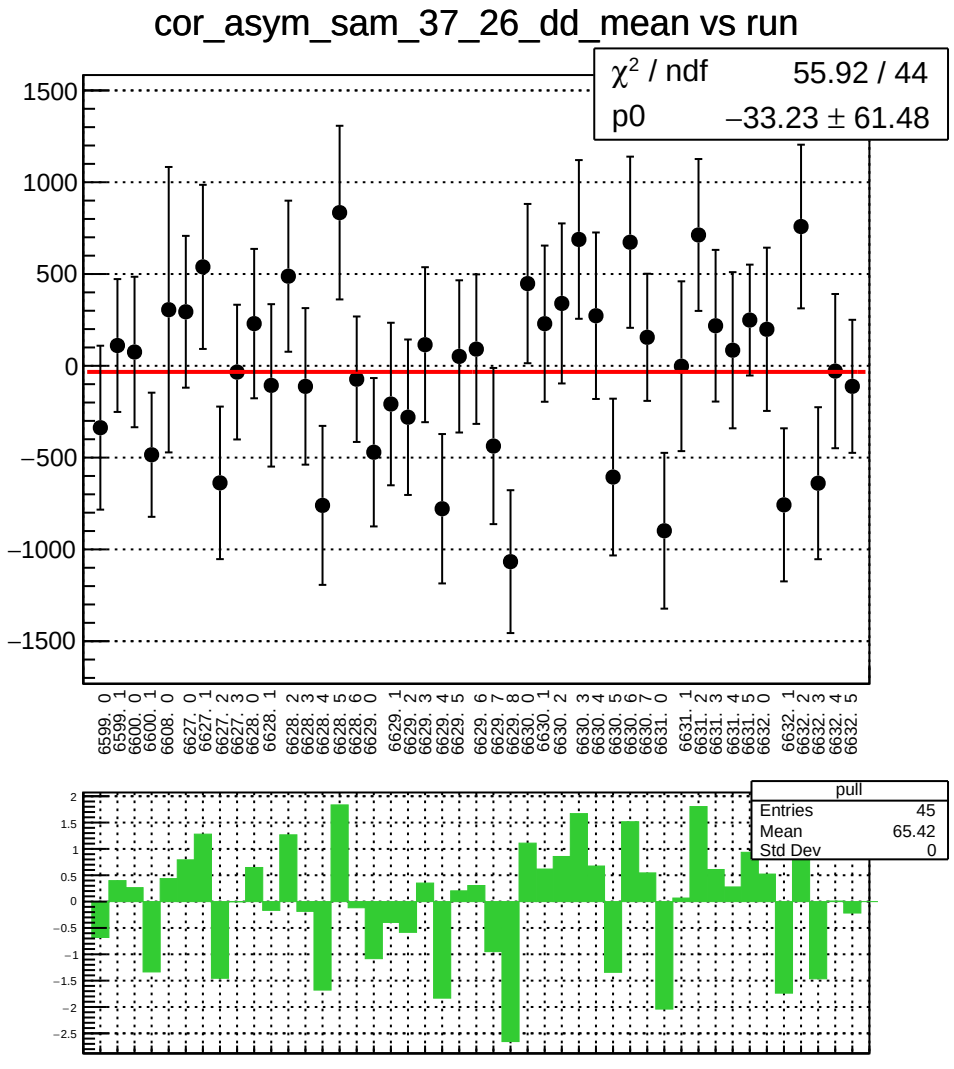
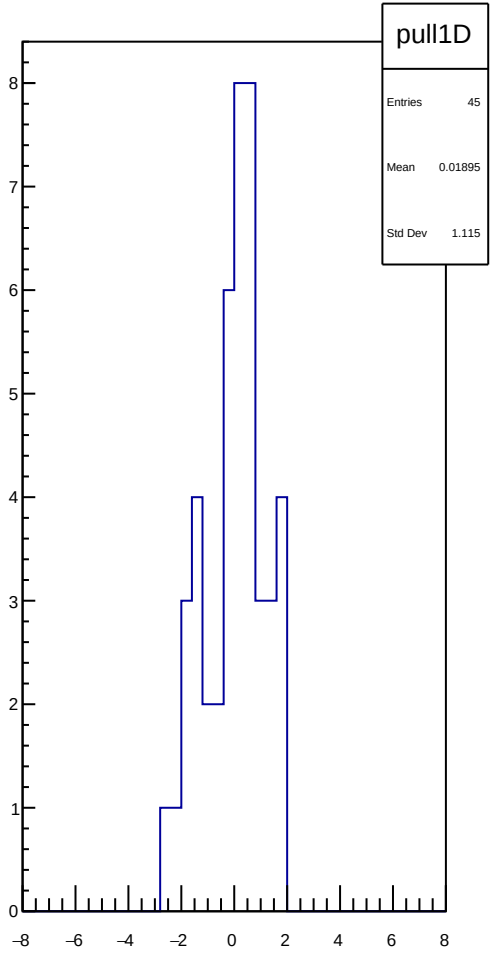
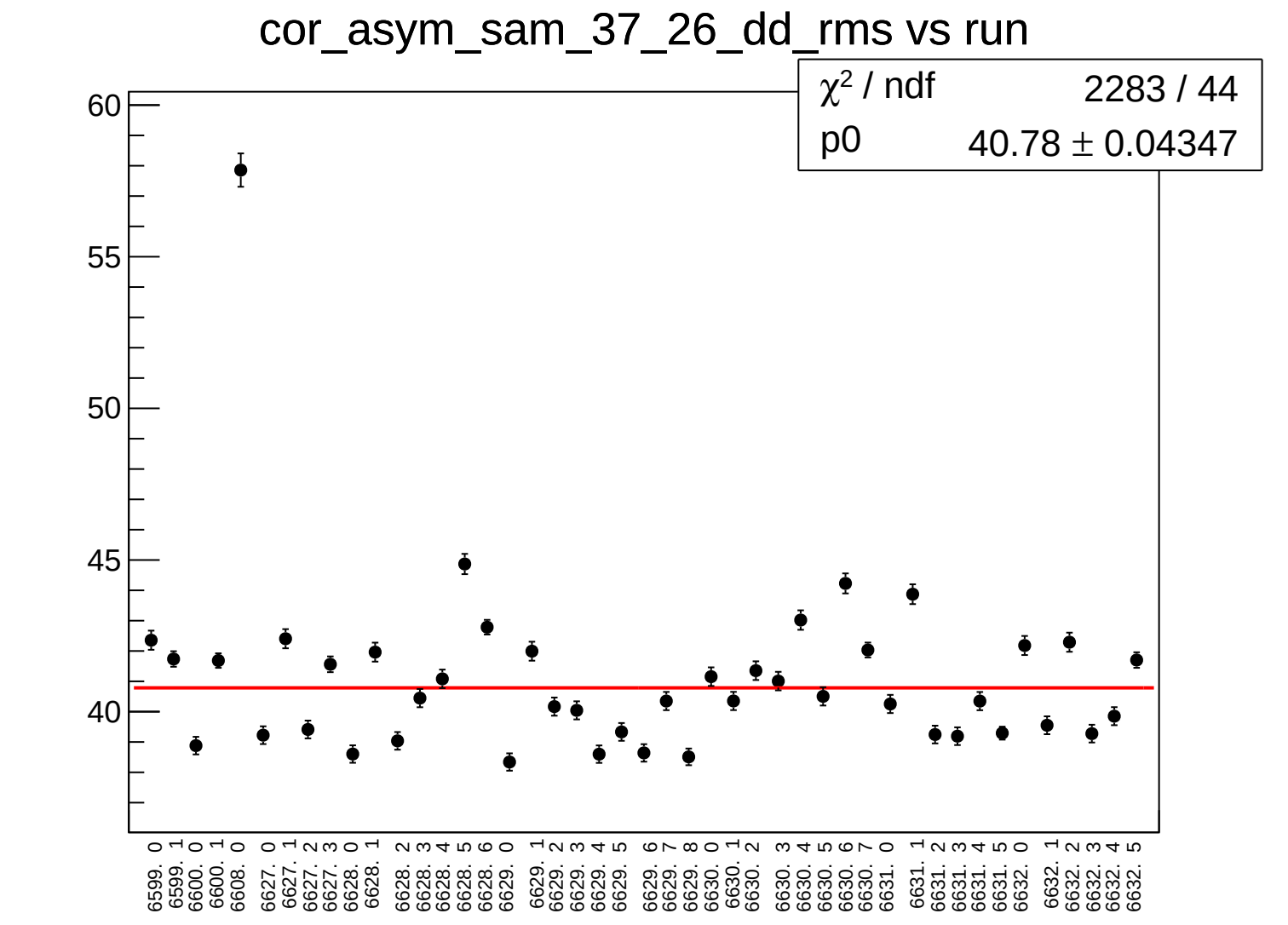
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 55.92 / 44
p0 −33.23 ± 61.48
1500
1000
500
0
−500
−1000
−1500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 65.42
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.01895
Std Dev 1.115
8
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 2283 / 44
p0 40.78 ± 0.04347
60
55
50
45
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6628. 4
6628. 5
6628. 6
6629. 0
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6629. 6
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6629. 8
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6630. 1
6630. 2
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6630. 6
6630. 7
6631. 0
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6632. 2
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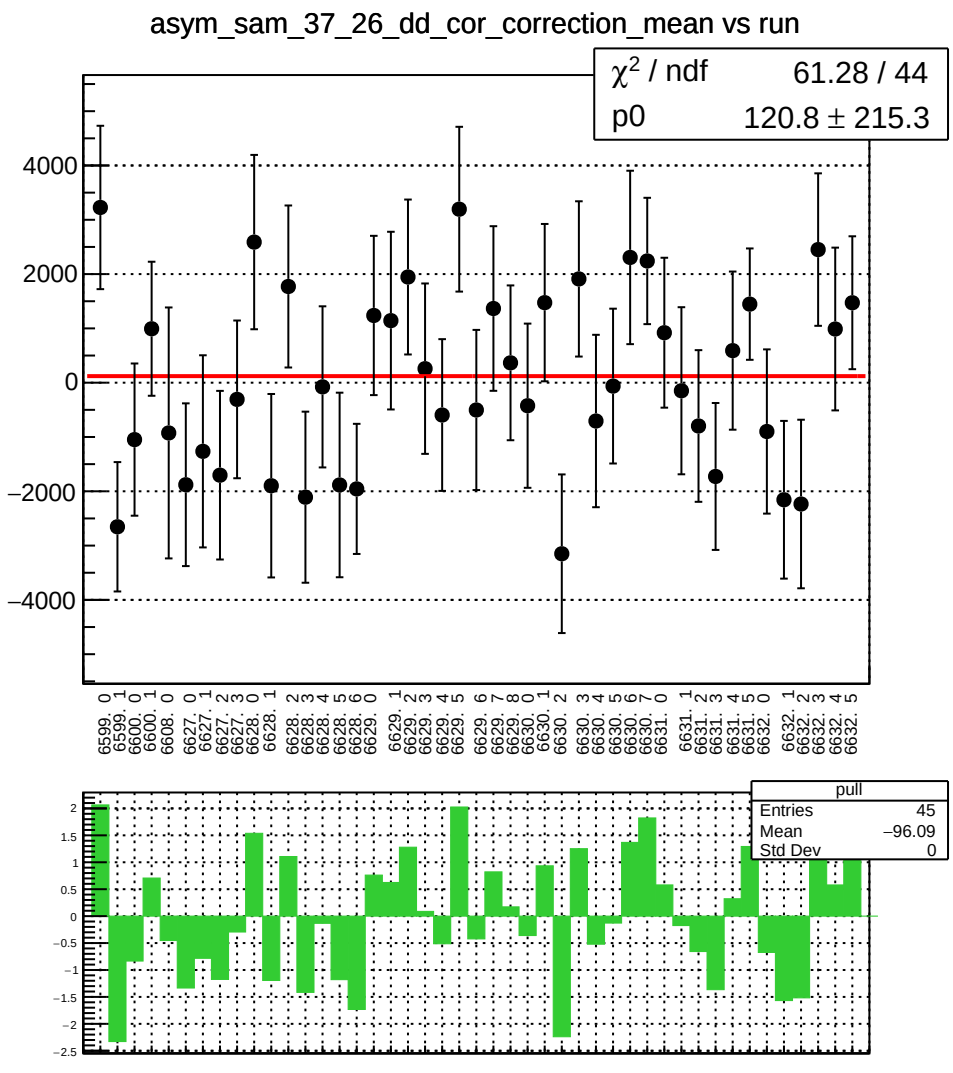
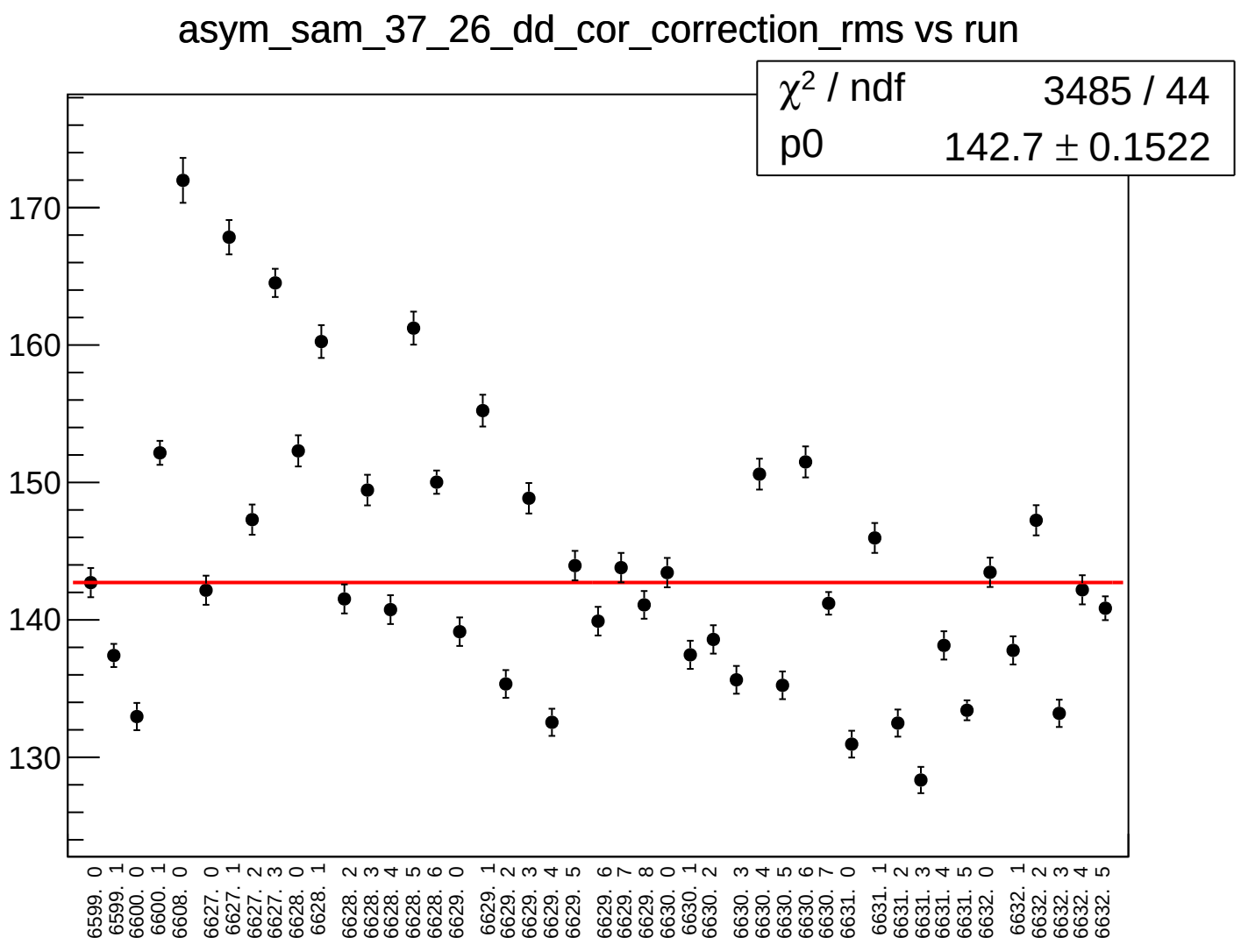
6632. 5


asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 61.28 / 44
p0 120.8 ± 215.3
4000
2000
0
−2000
−4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −96.09
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.01989
Std Dev 1.167
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 3485 / 44
p0 142.7 ± 0.1522
170
160
150
140
130
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6629. 0
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6629. 4
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
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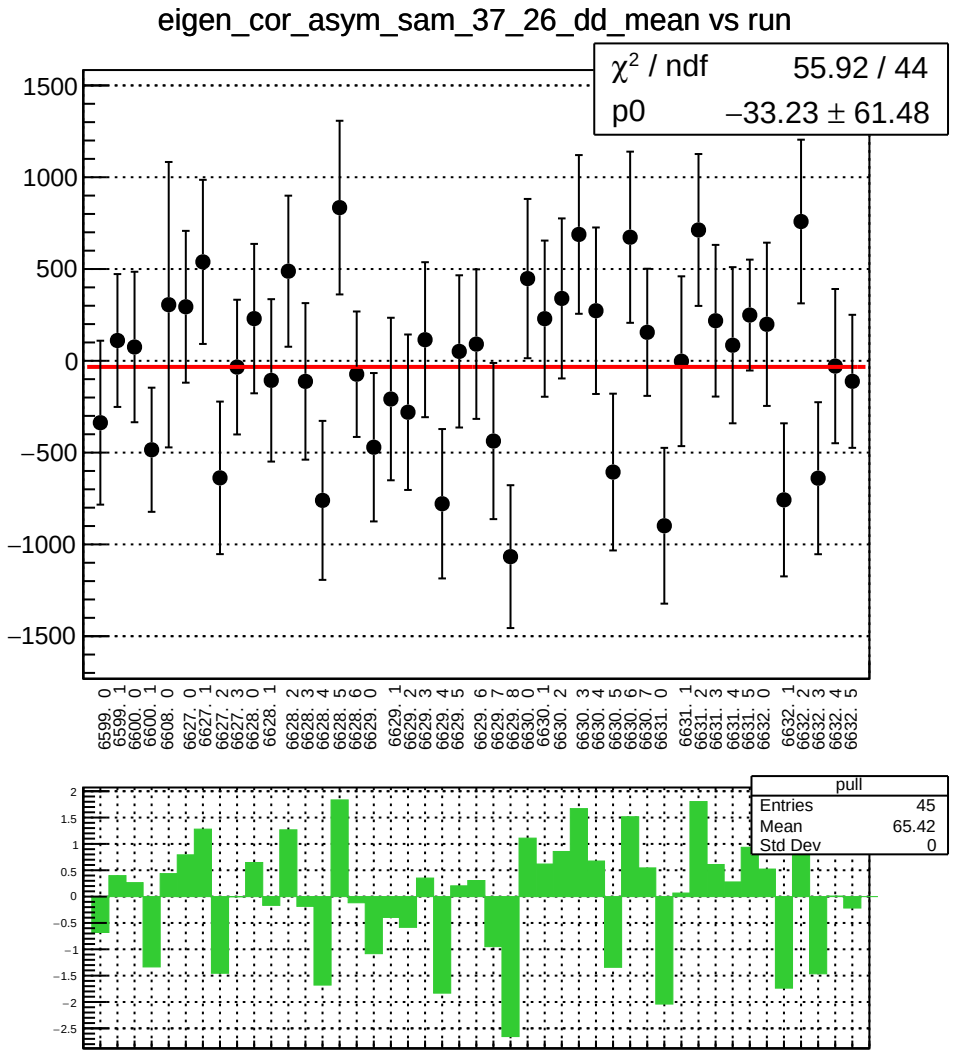
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 55.92 / 44
p0 −33.23 ± 61.48
1500
1000
500
0
−500
−1000
−1500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
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6630. 2
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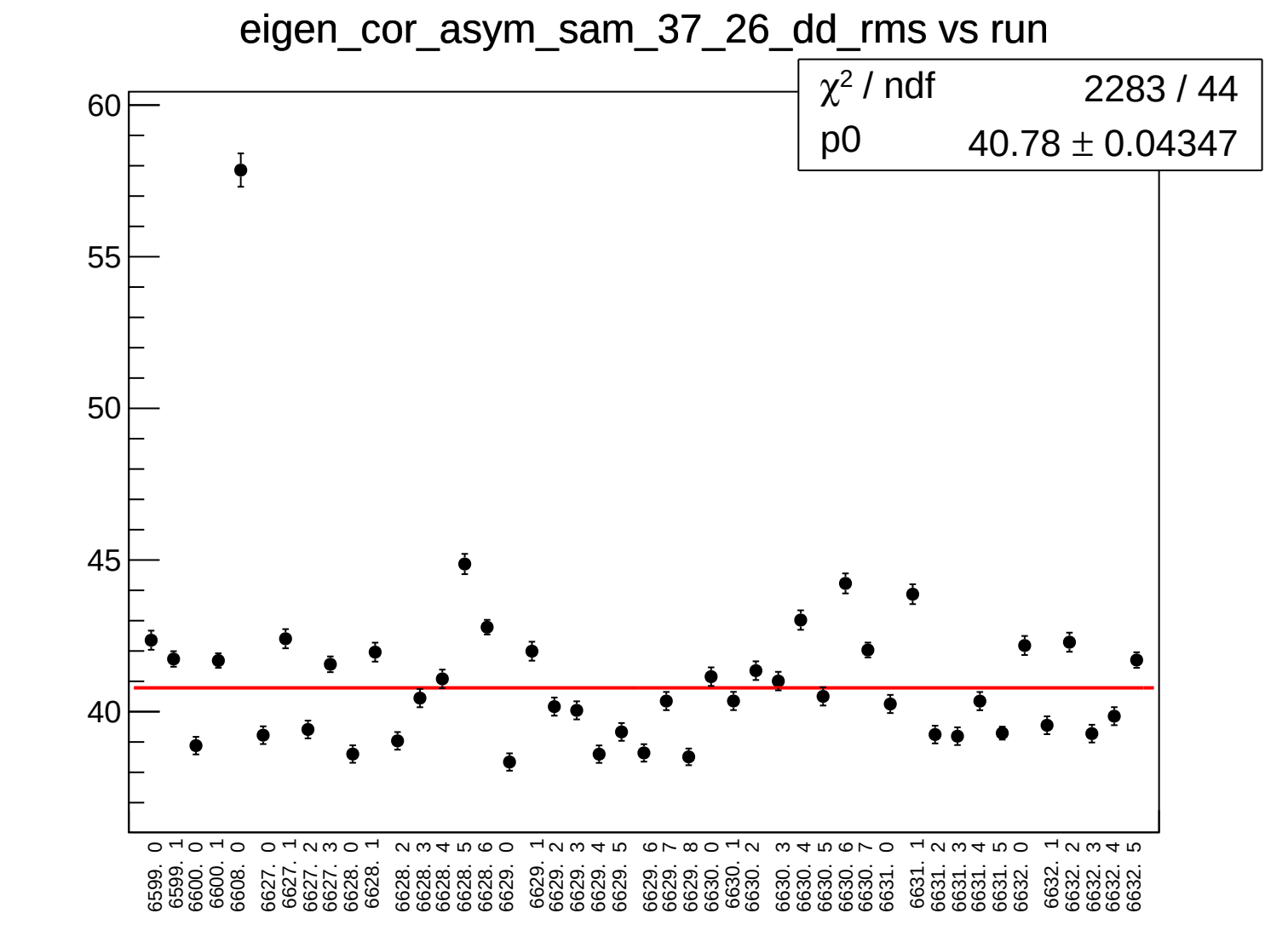
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 65.42
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.01895
Std Dev 1.115
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 2283 / 44
p0 40.78 ± 0.04347
60
55
50
45
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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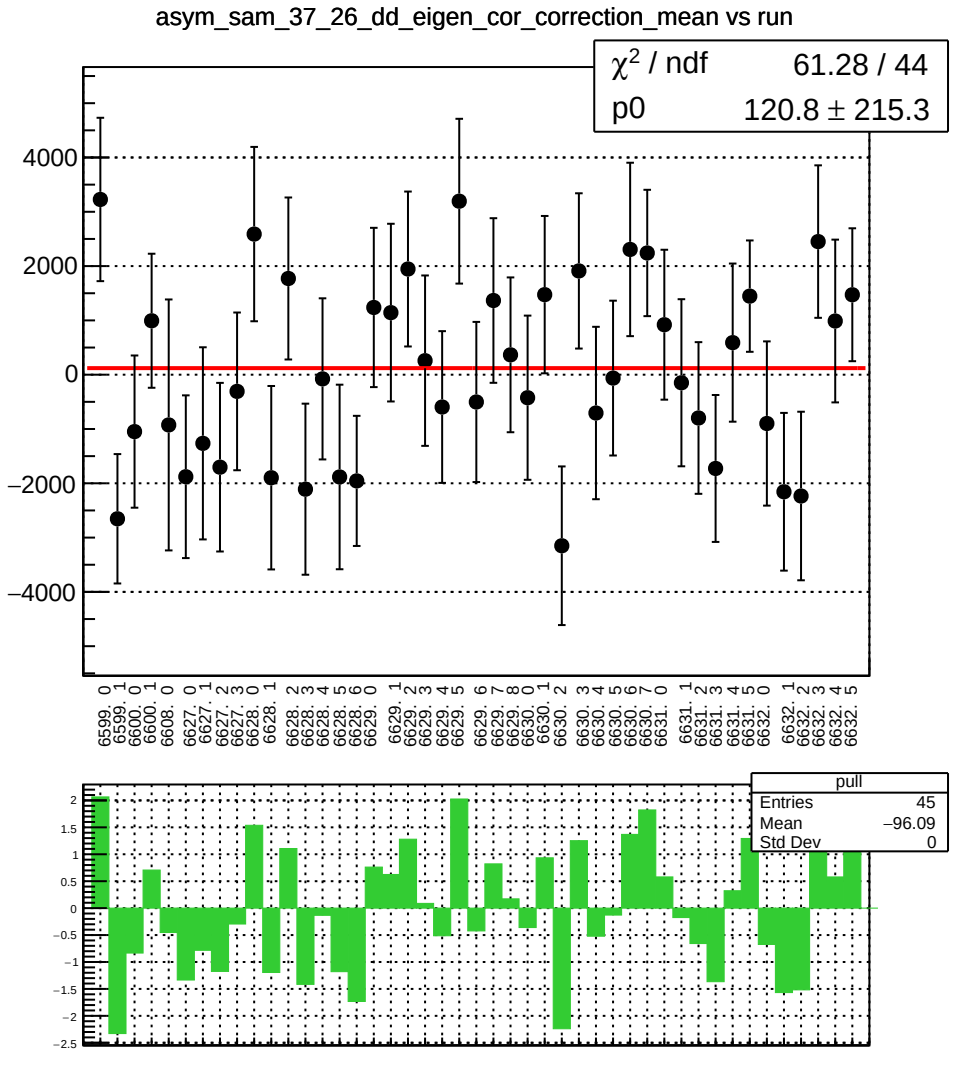
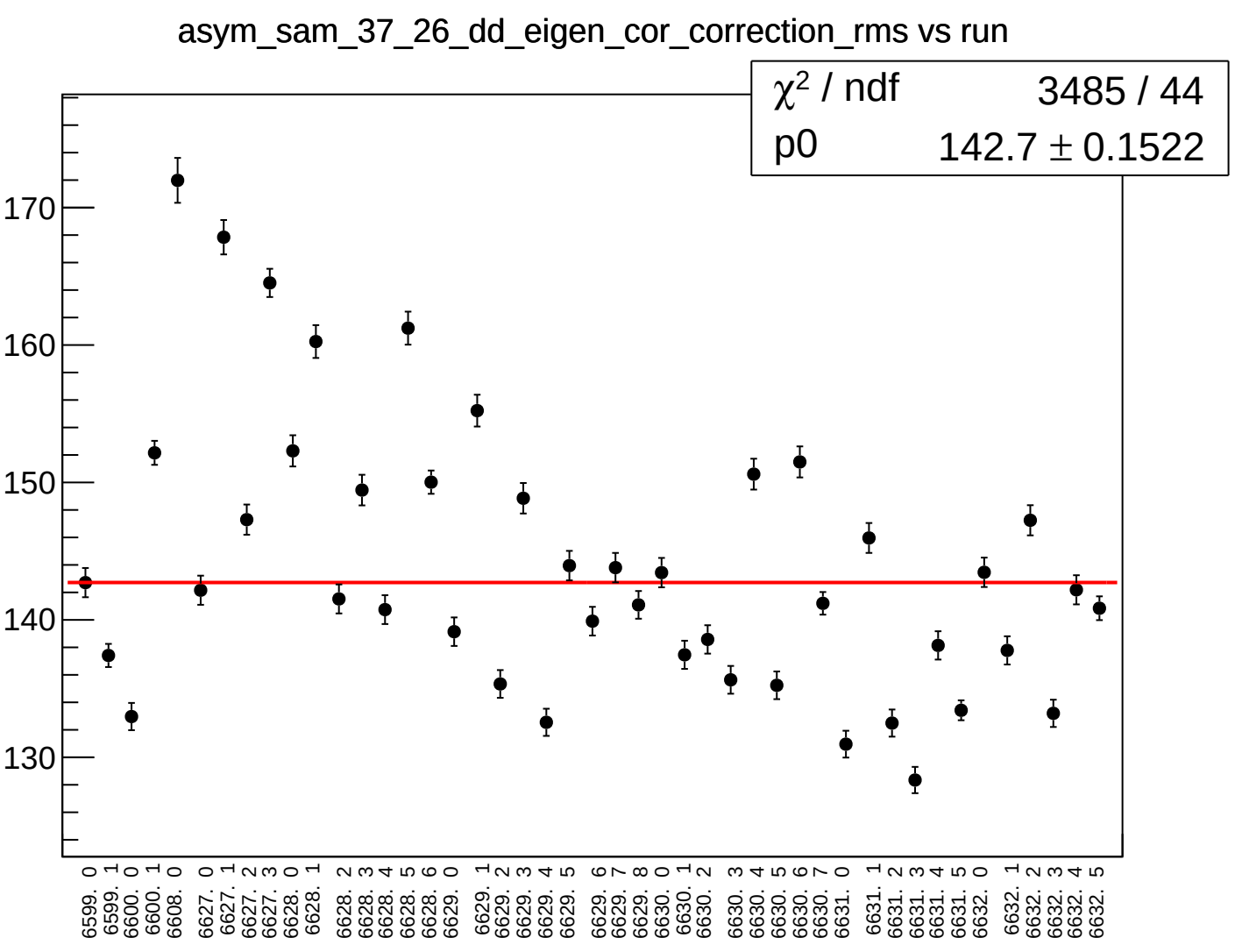
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 61.28 / 44
p0 120.8 ± 215.3
4000
2000
0
−2000
−4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −96.09
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.01989
Std Dev 1.167
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 3485 / 44
p0 142.7 ± 0.1522
170
160
150
140
130
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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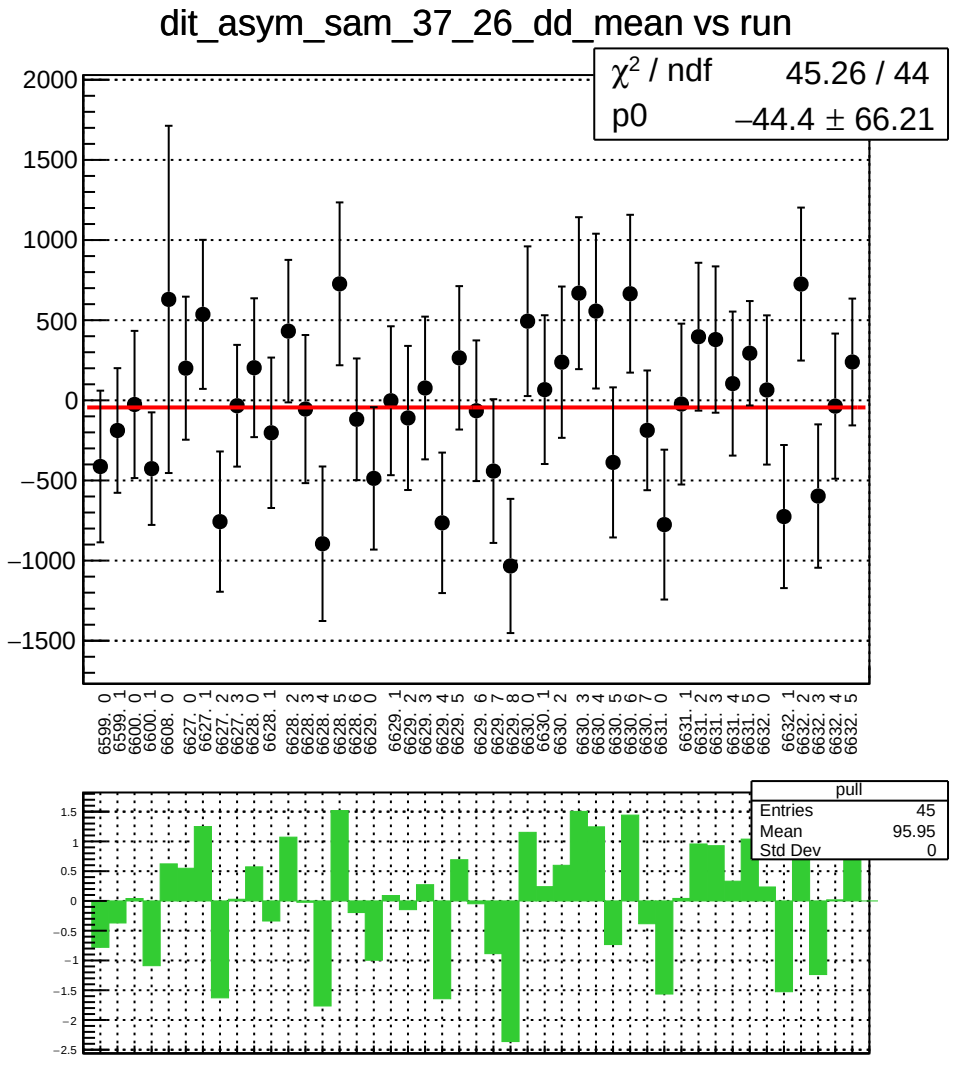
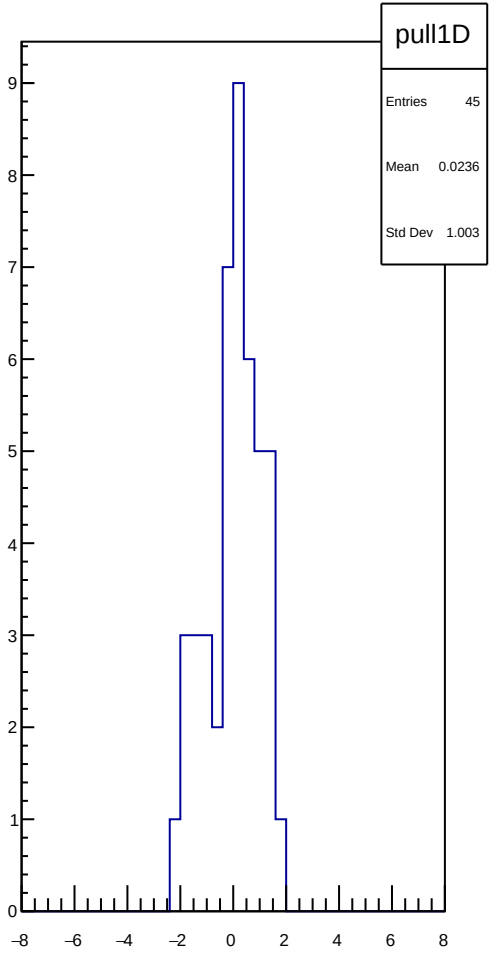
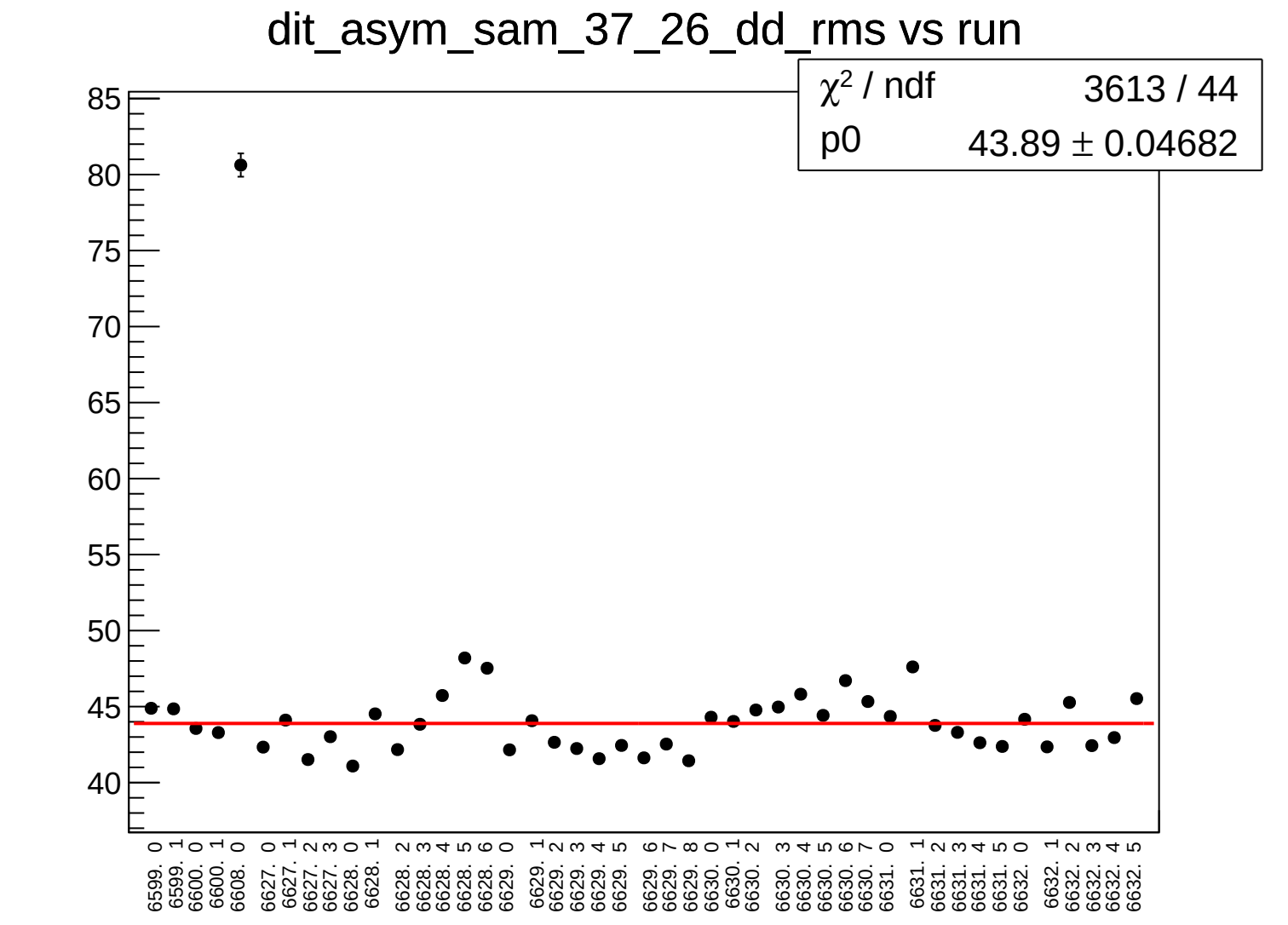
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 45.26 / 44
p0 −44.4 ± 66.21
2000
1500
1000
500
0
−500
−1000
−1500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 95.95
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean 0.0236
Std Dev 1.003
9
8
7
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 3613 / 44
p0 43.89 ± 0.04682
85
80
75
70
65
60
55
50
45
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
6632. 0
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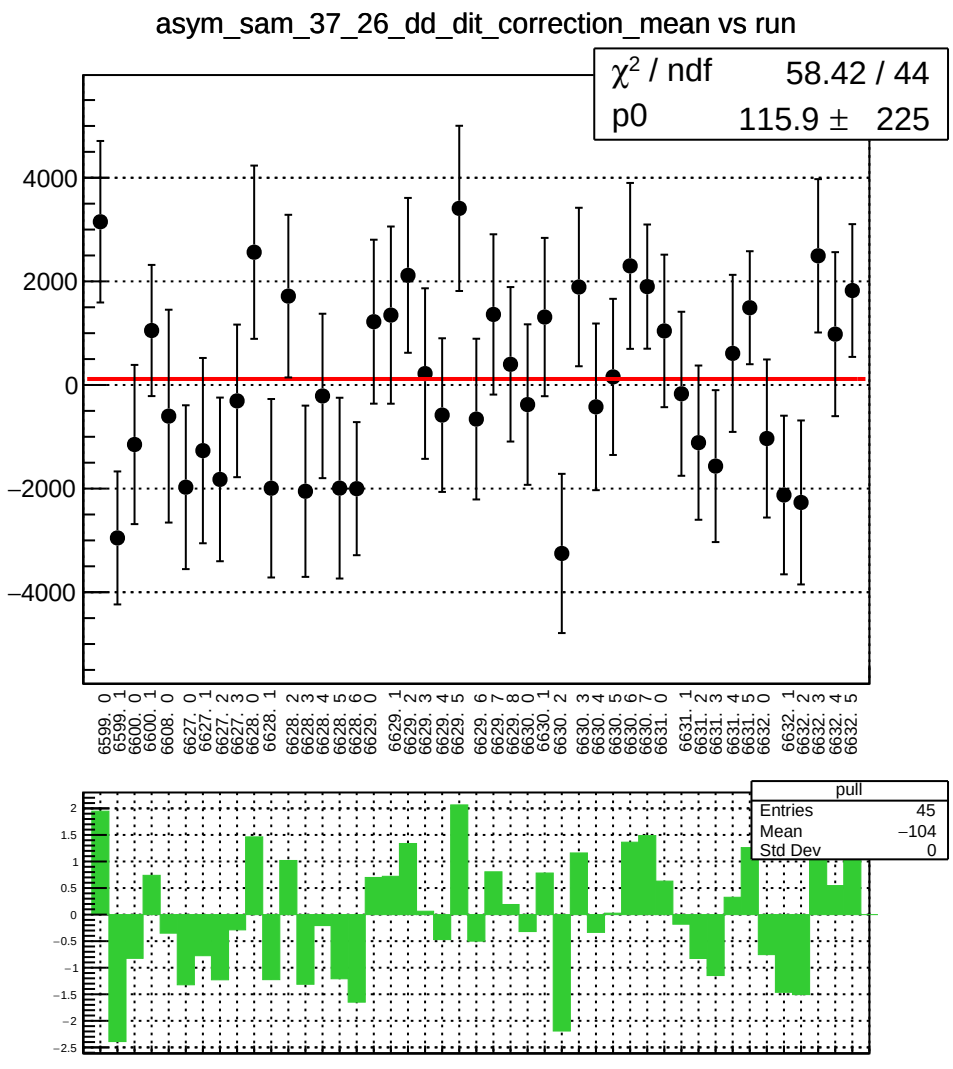
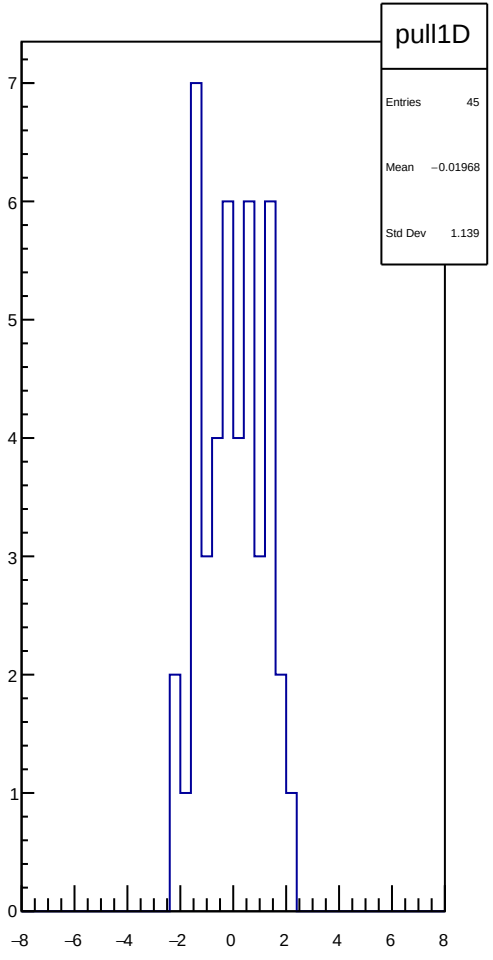
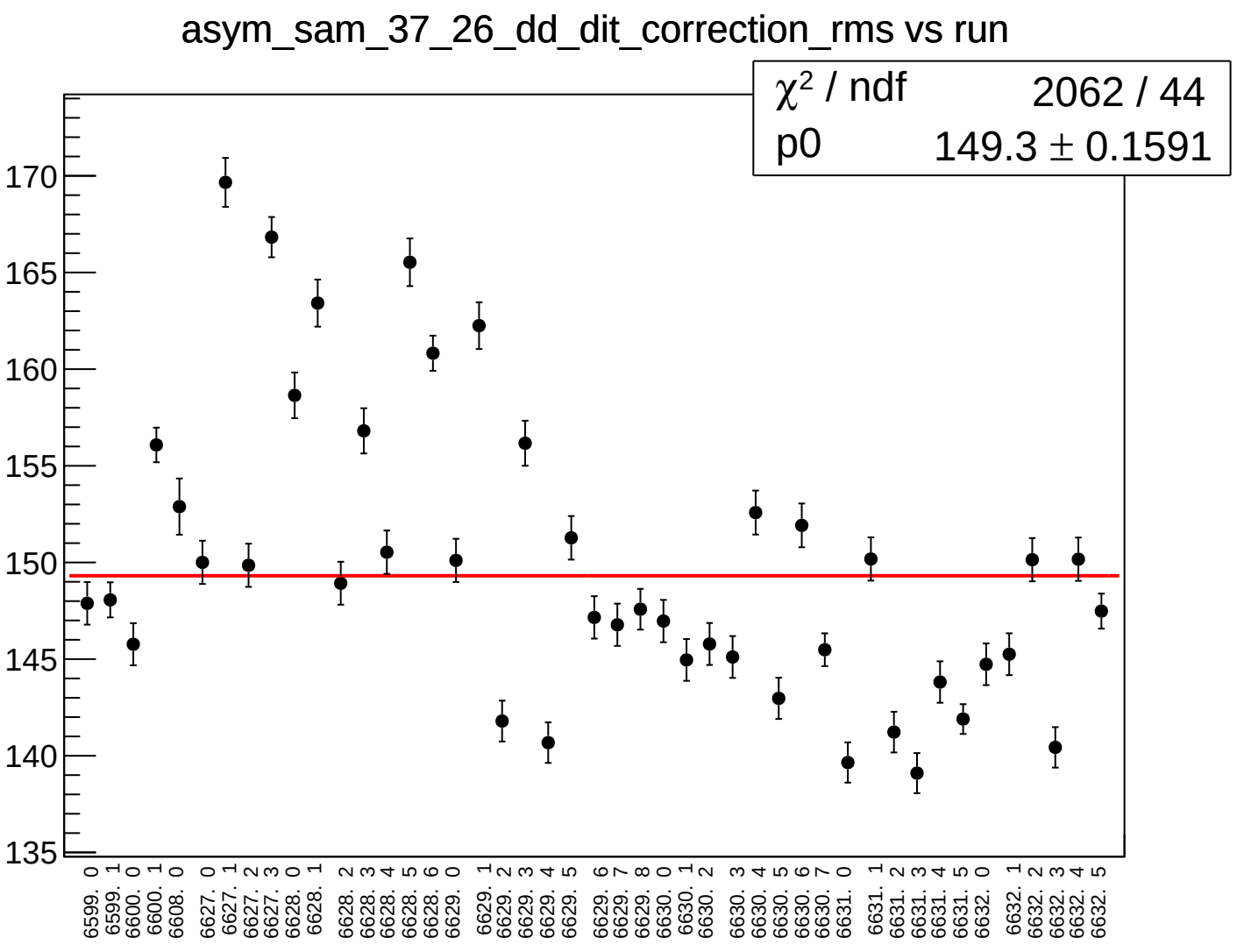
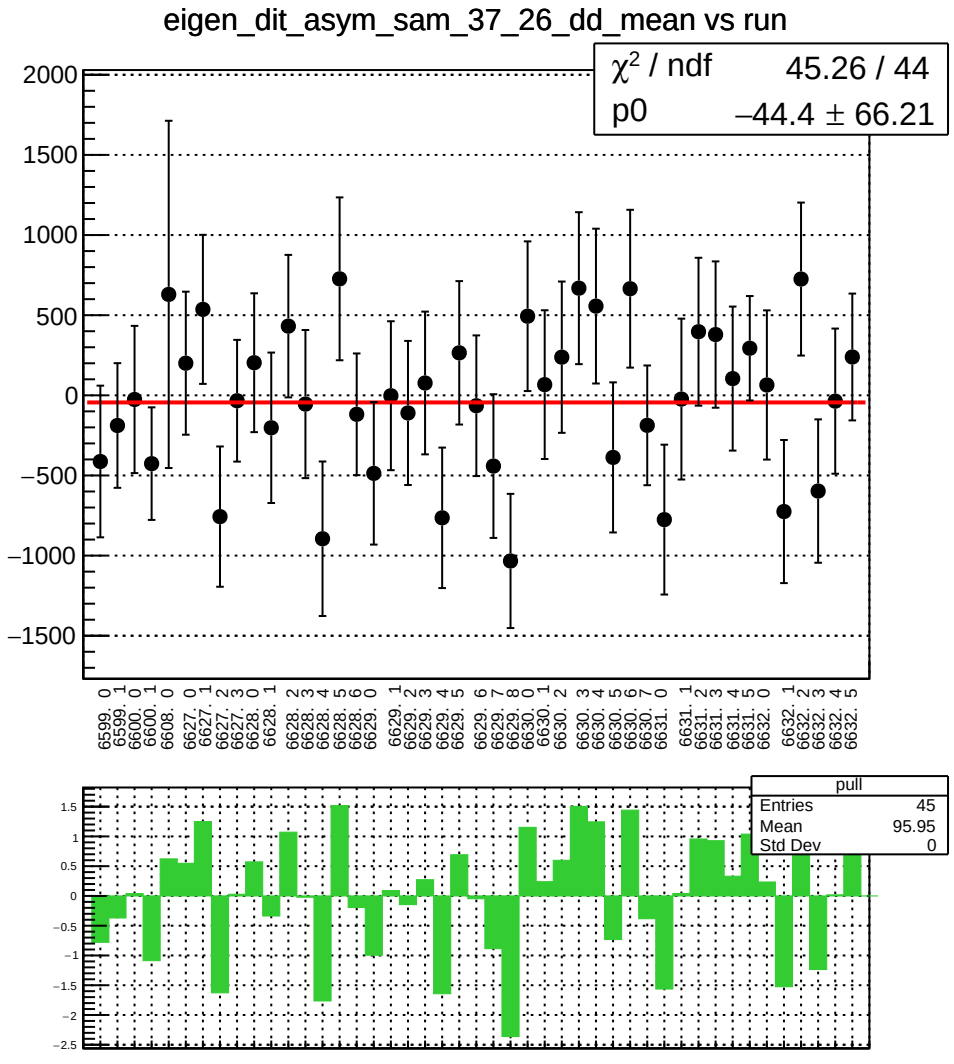
6632. 3
6632. 4
6632. 5


asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 58.42 / 44
p0 115.9 ± 225
4000
2000
0
−2000
−4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −104
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 45
Mean −0.01968
Std Dev 1.139
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 2062 / 44
p0 149.3 ± 0.1591
170
165
160
155
150
145
140
135
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 45.26 / 44
p0 −44.4 ± 66.21
2000
1500
1000
500
0
−500
−1000
−1500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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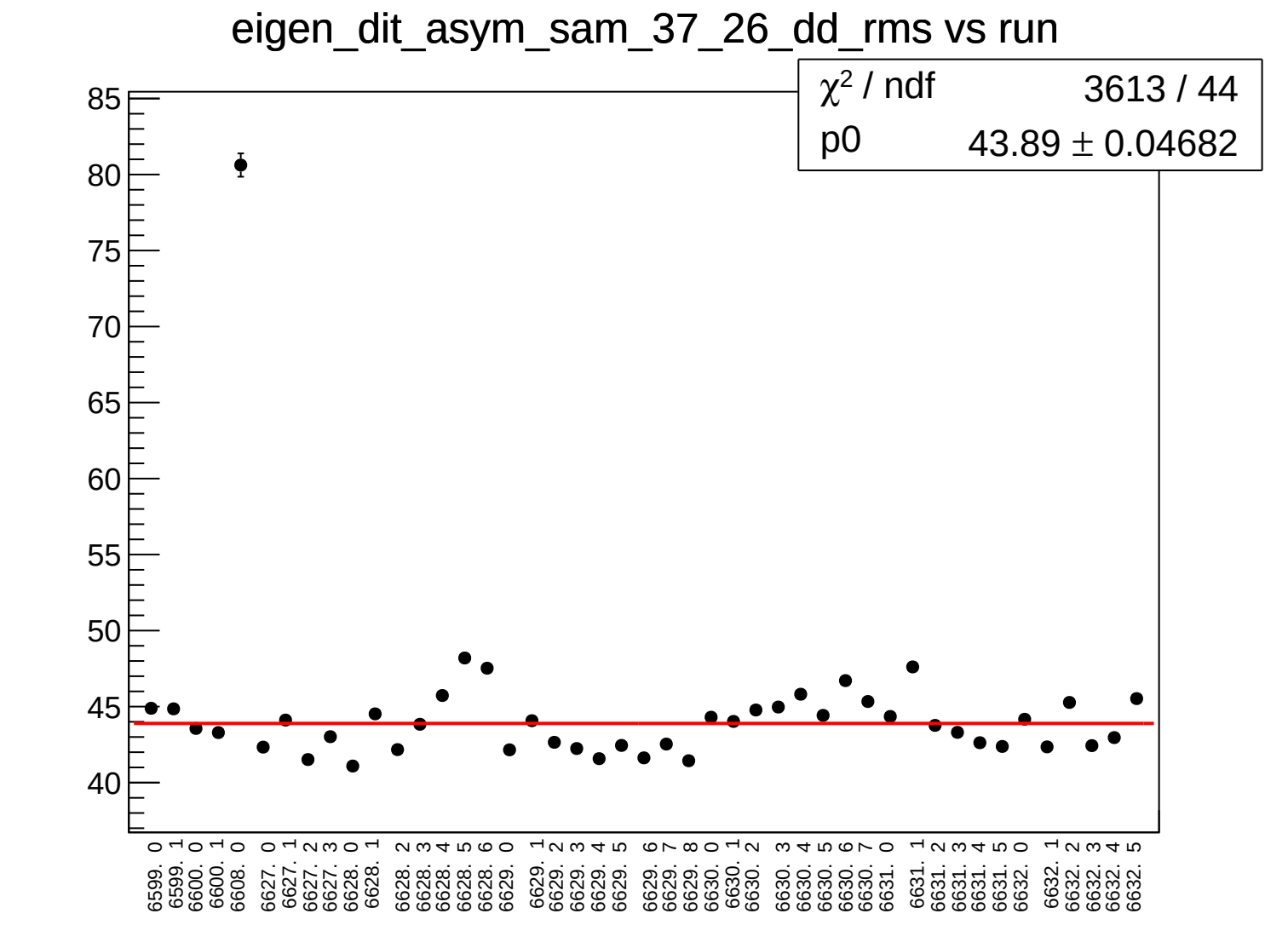
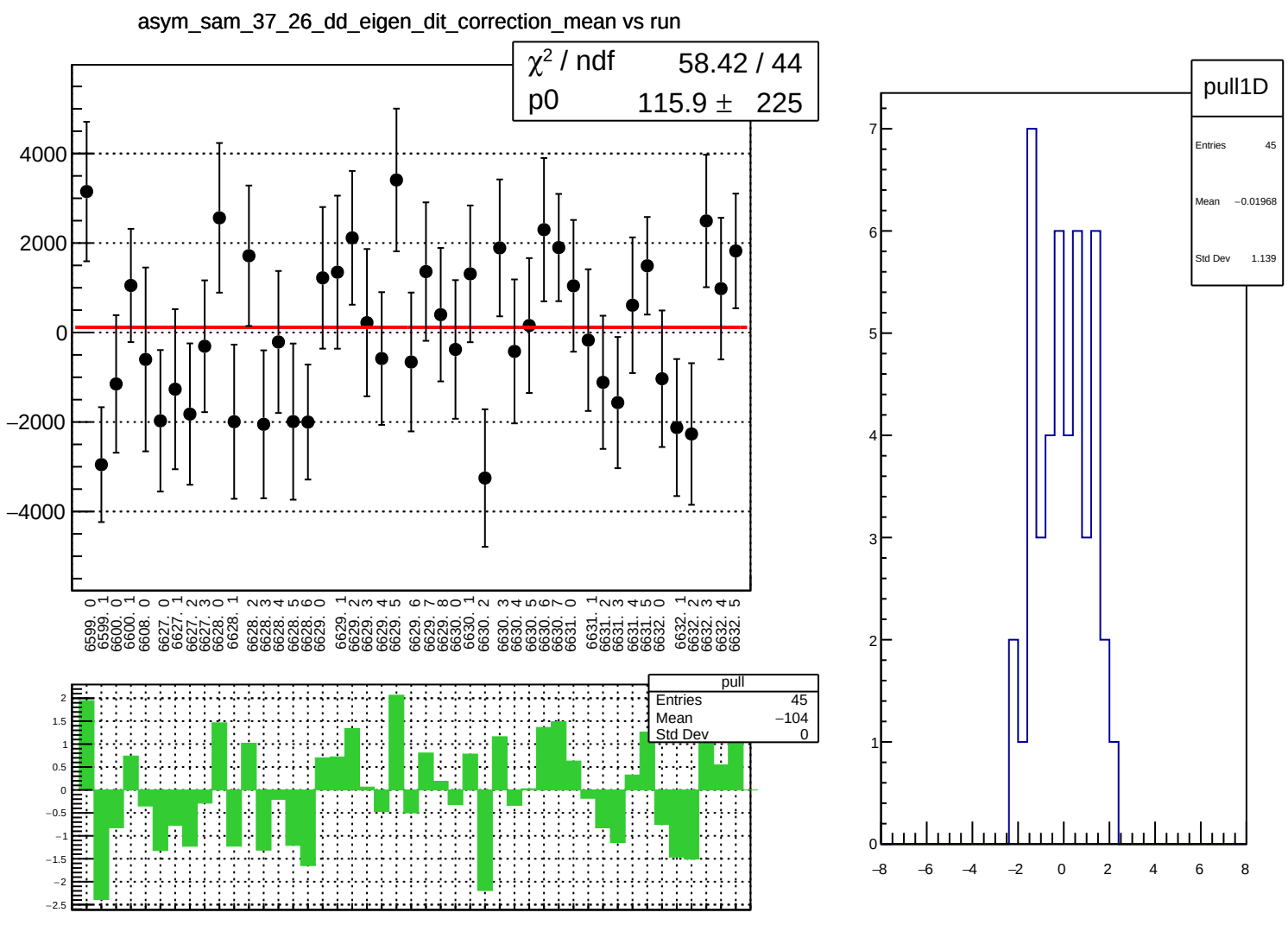
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 95.95
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.0236
Std Dev 1.003
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 3613 / 44
p0 43.89 ± 0.04682
85
80
75
70
65
60
55
50
45
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 58.42 / 44
p0 115.9 ± 225
4000
2000
0
−2000
−4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
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6628. 5
6628. 6
6629. 0
6629. 1
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6629. 7
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6630. 4
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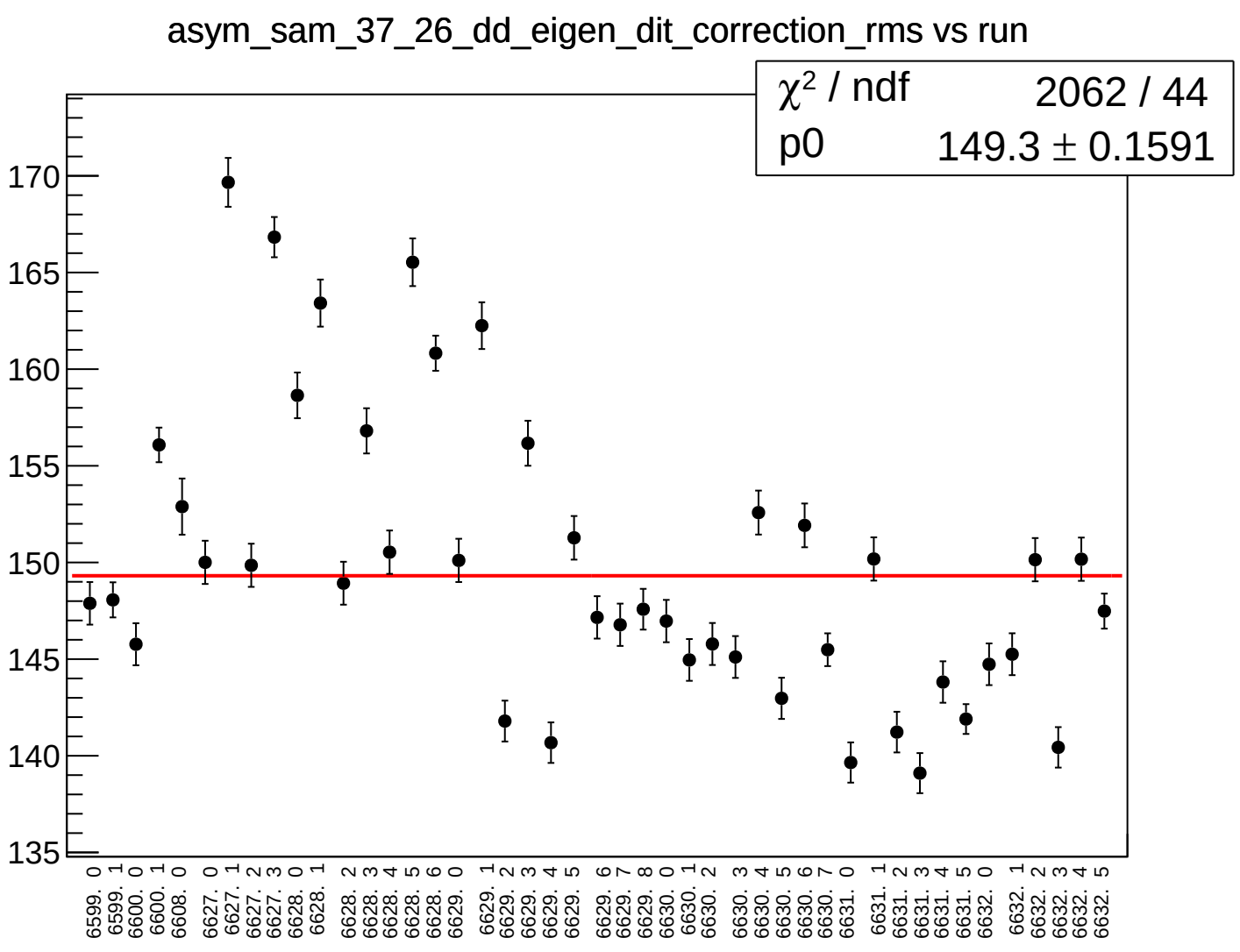
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −104
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.01968
Std Dev 1.139
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 2062 / 44
p0 149.3 ± 0.1591
170
165
160
155
150
145
140
135
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
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6629. 2
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6629. 6
6629. 7
6629. 8
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6630. 1
6630. 2
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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6631. 4
6631. 5
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6632. 2
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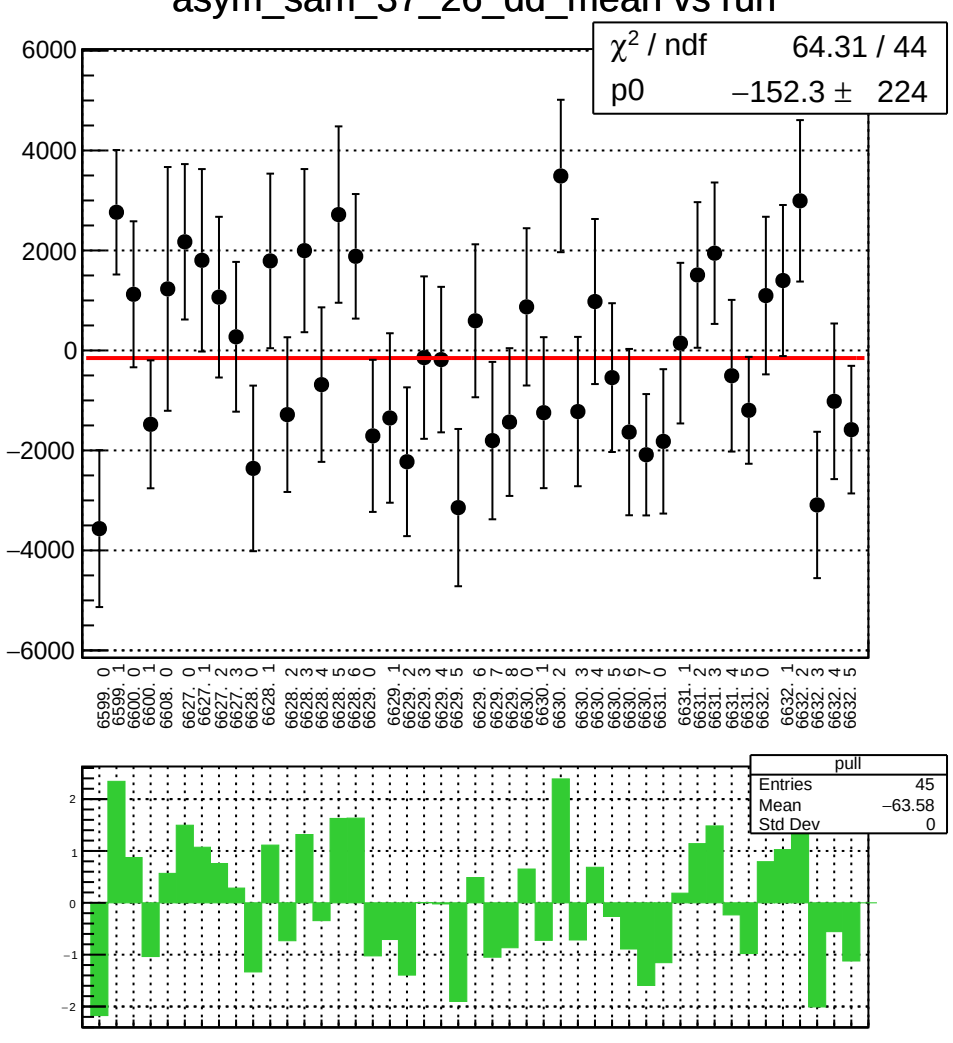
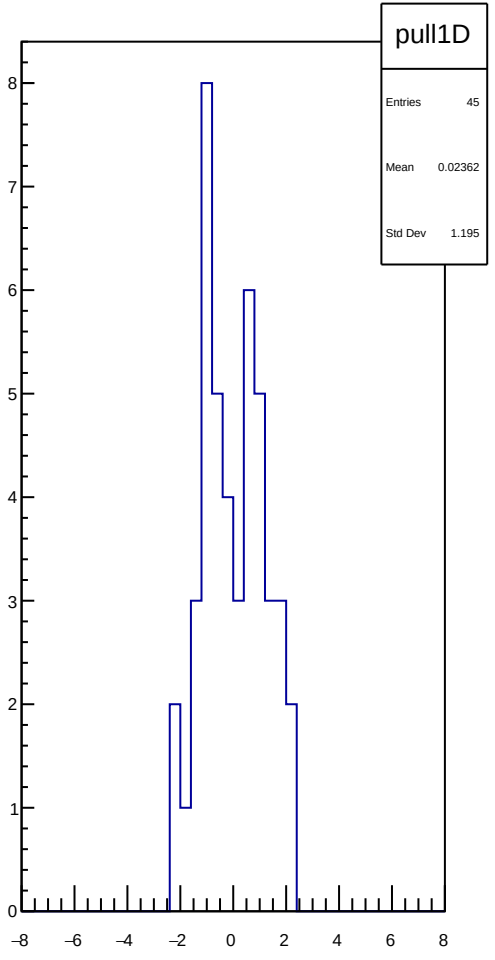
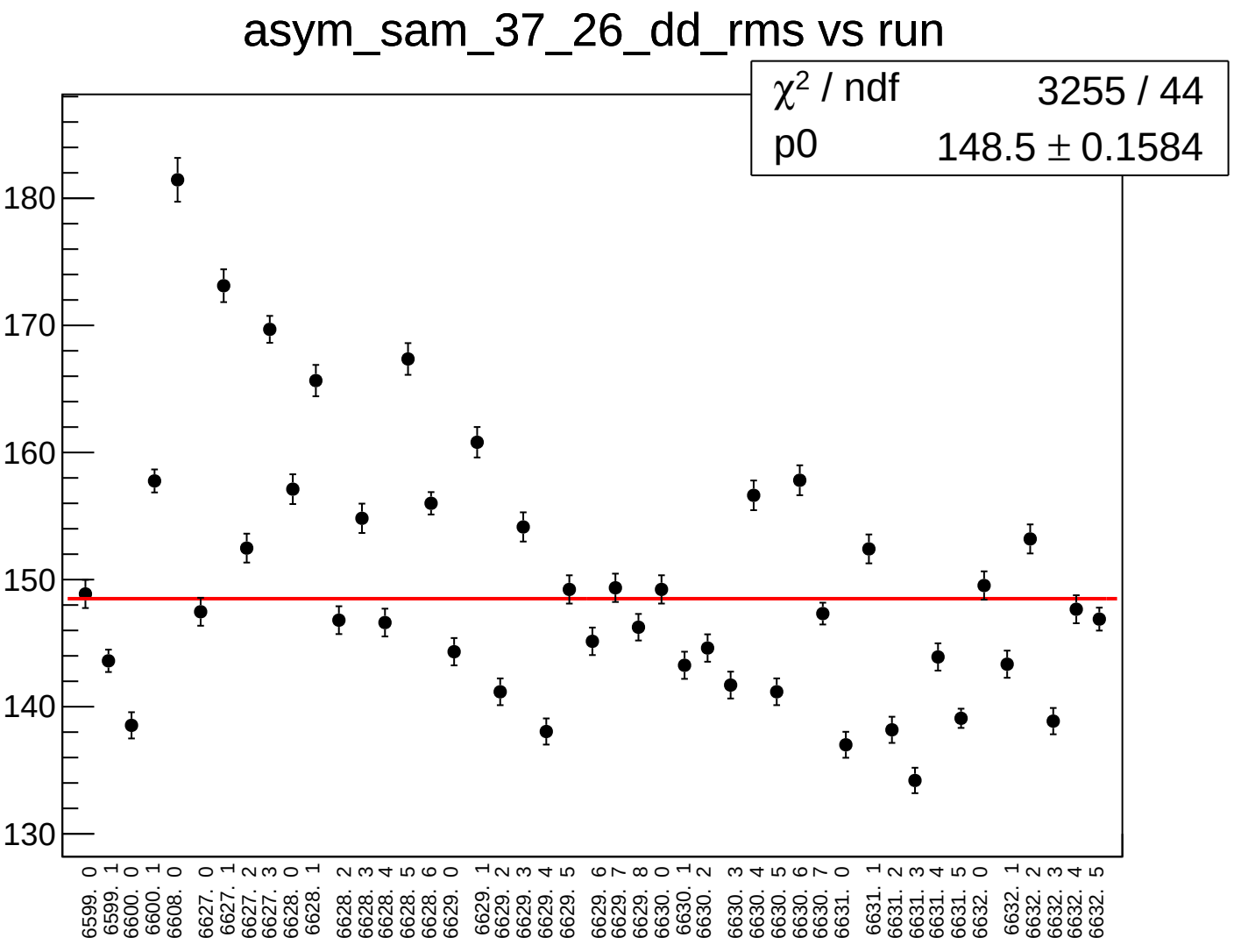
6632. 5


asym_sam_37_26_dd_mean vs run
χ² / ndf 64.31 / 44
p0 −152.3 ± 224
pull
Entries 45
Mean −63.58
Std Dev 0


pull1D
Entries 45
Mean 0.02362
Std Dev 1.195


asym_sam_37_26_dd_rms vs run
χ² / ndf 3255 / 44
p0 148.5 ± 0.1584
180
170
160
150
140
130
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
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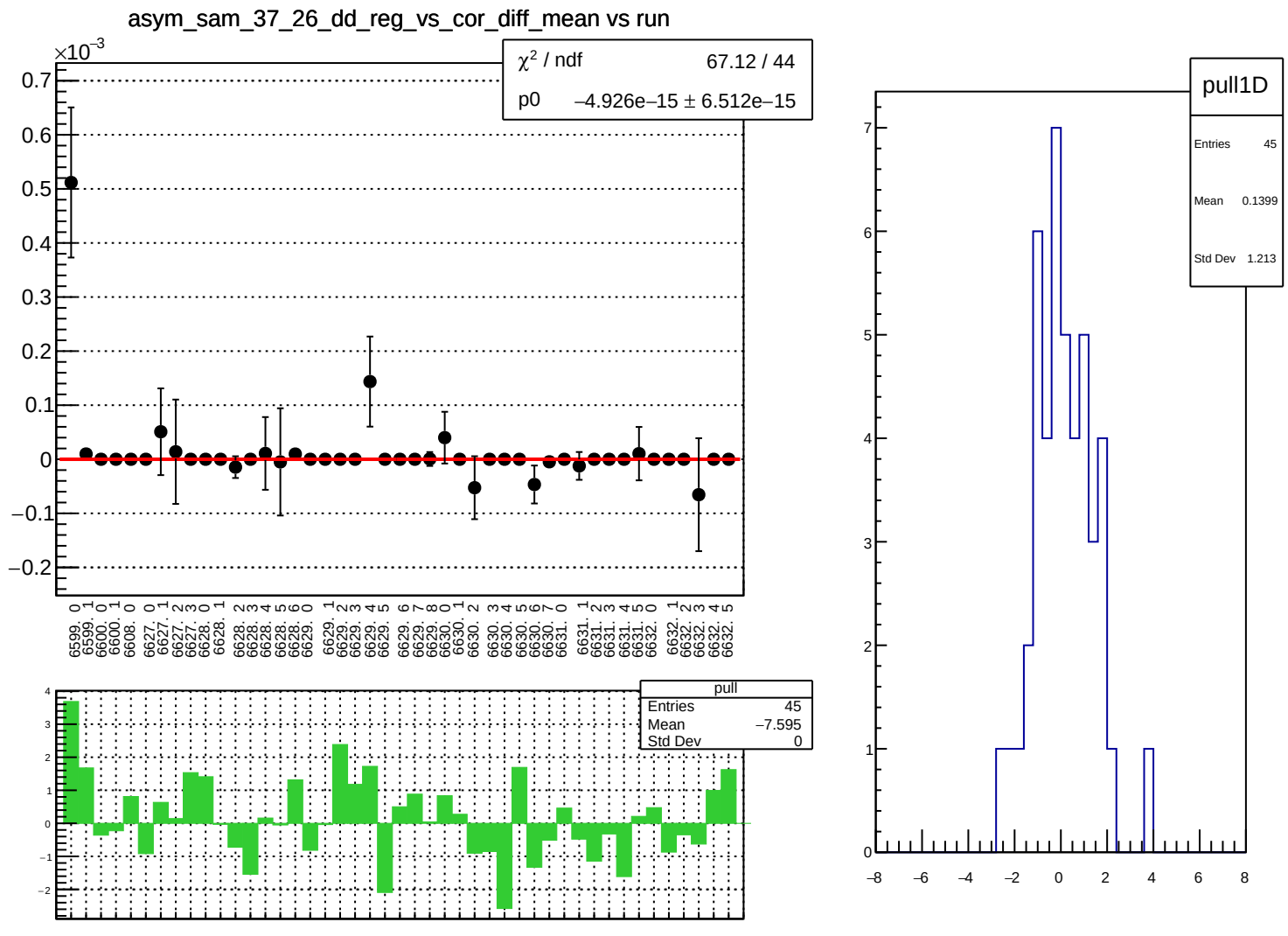
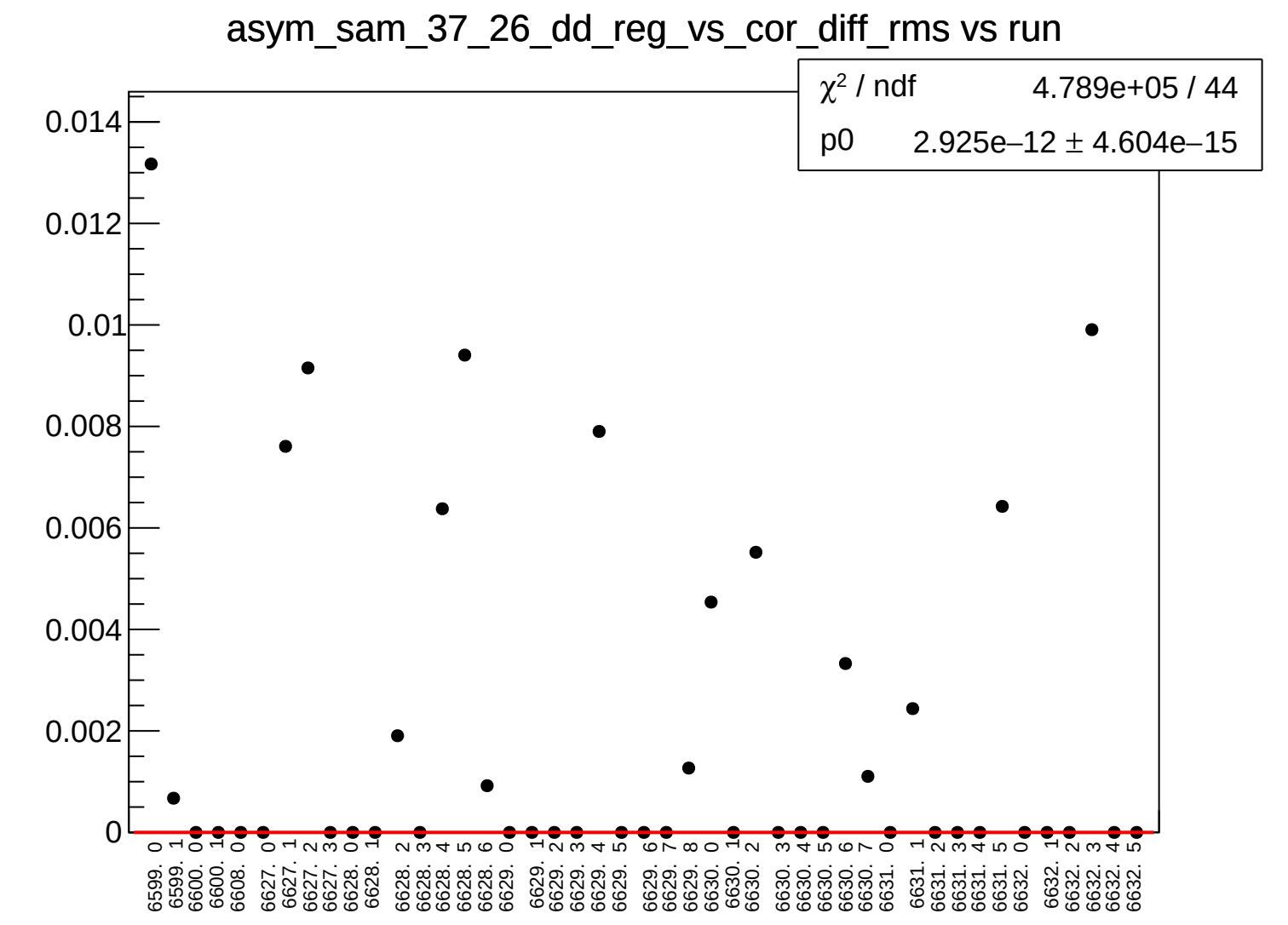
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 67.12 / 44
p0 −4.926e−15 ± 6.512e−15
pull
Entries 45
Mean −7.595
Std Dev 0
pull1D
Entries 45
Mean 0.1399
Std Dev 1.213


asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.789e+05 / 44
p0 2.925e−12 ± 4.604e−15
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
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6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
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6630. 6
6630. 7
6631. 0
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6631. 2
6631. 3
6631. 4
6631. 5
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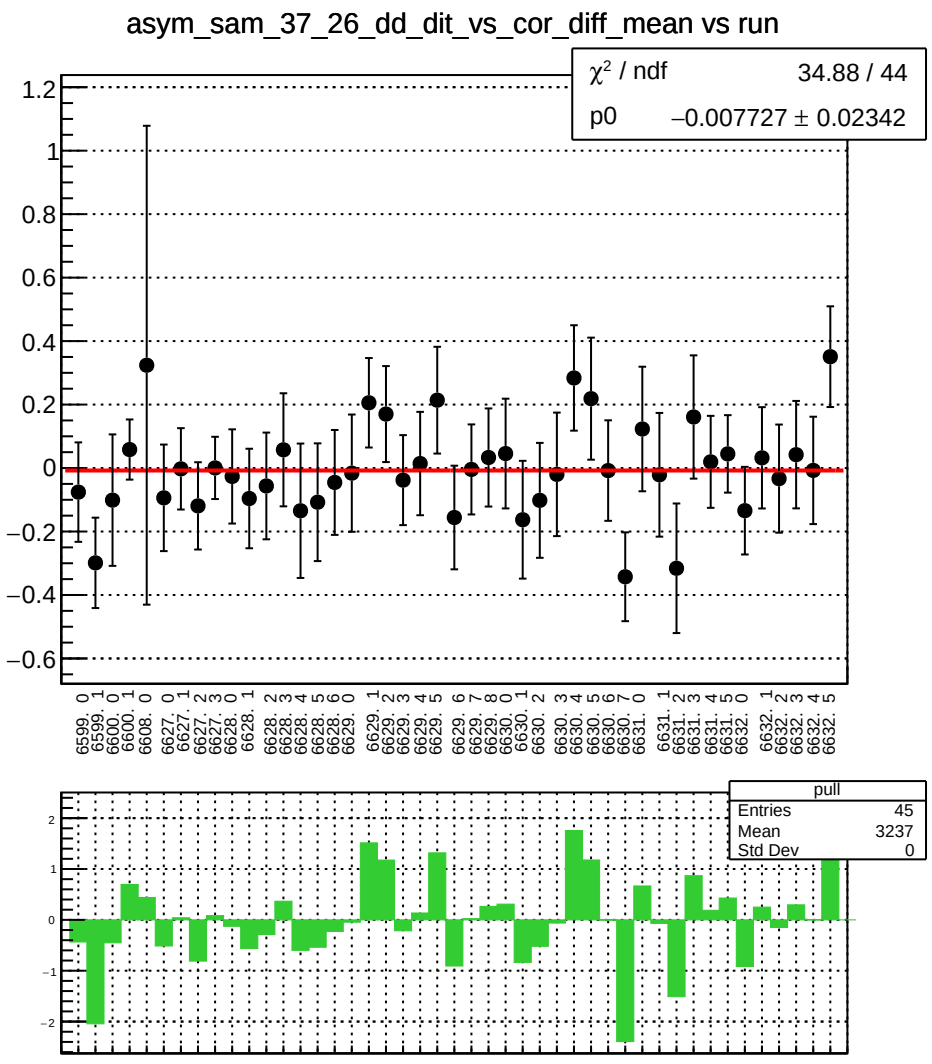
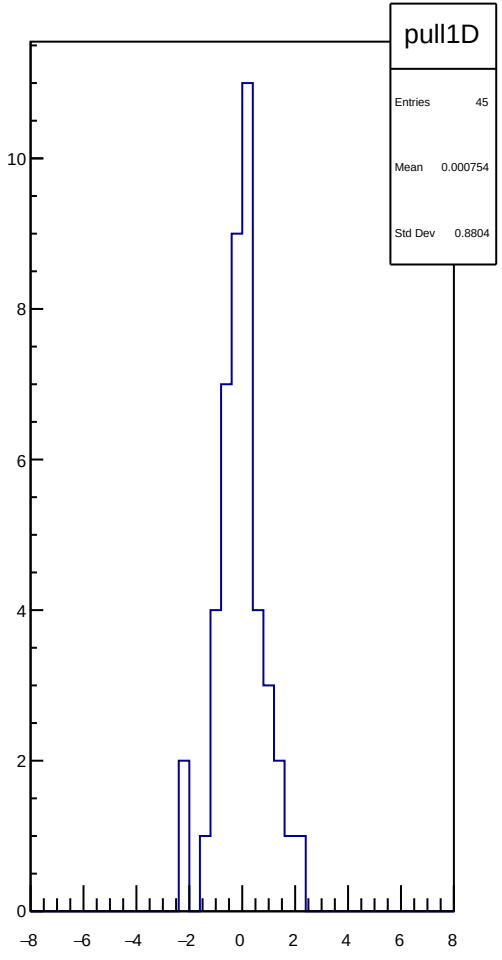
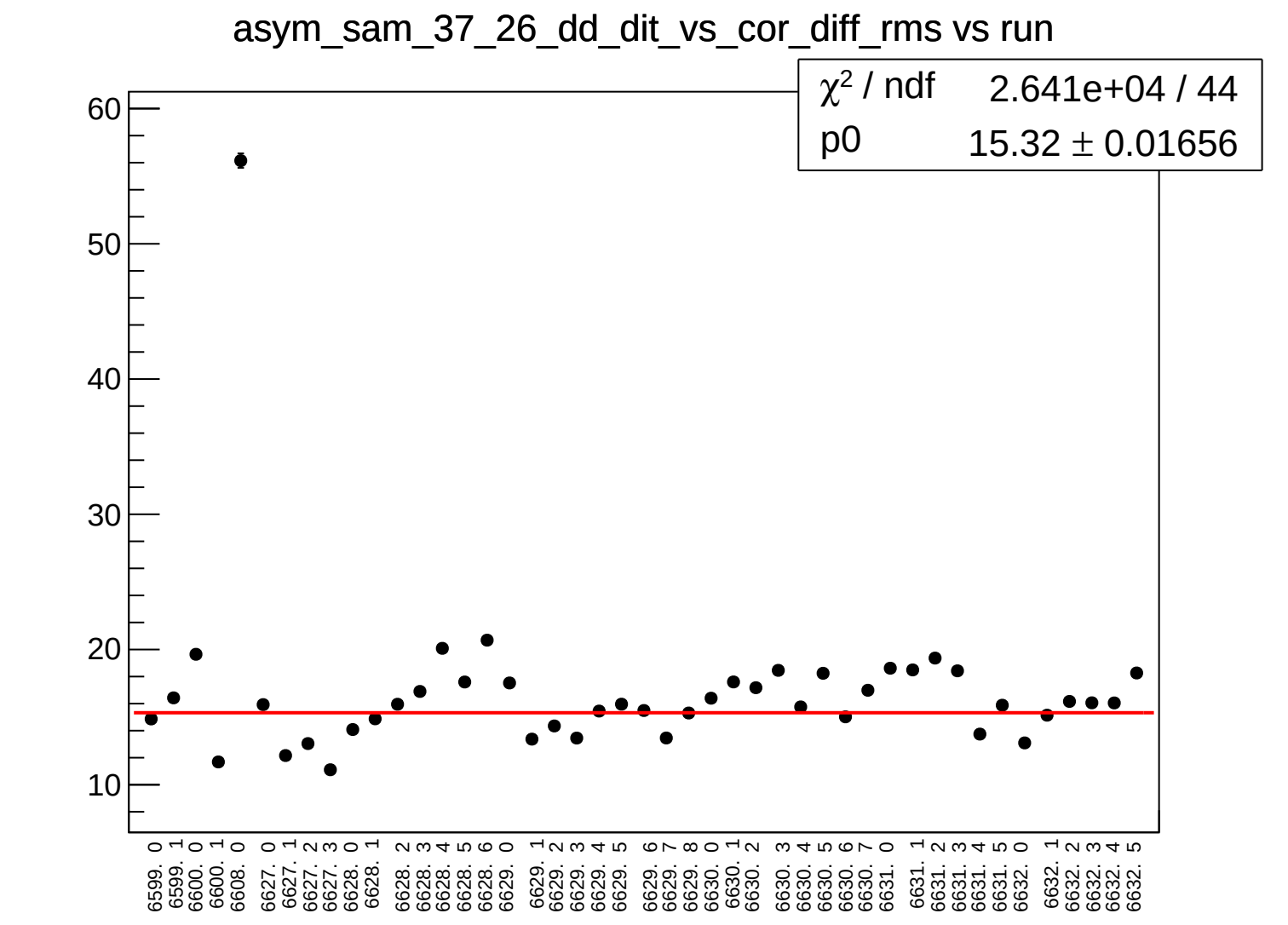
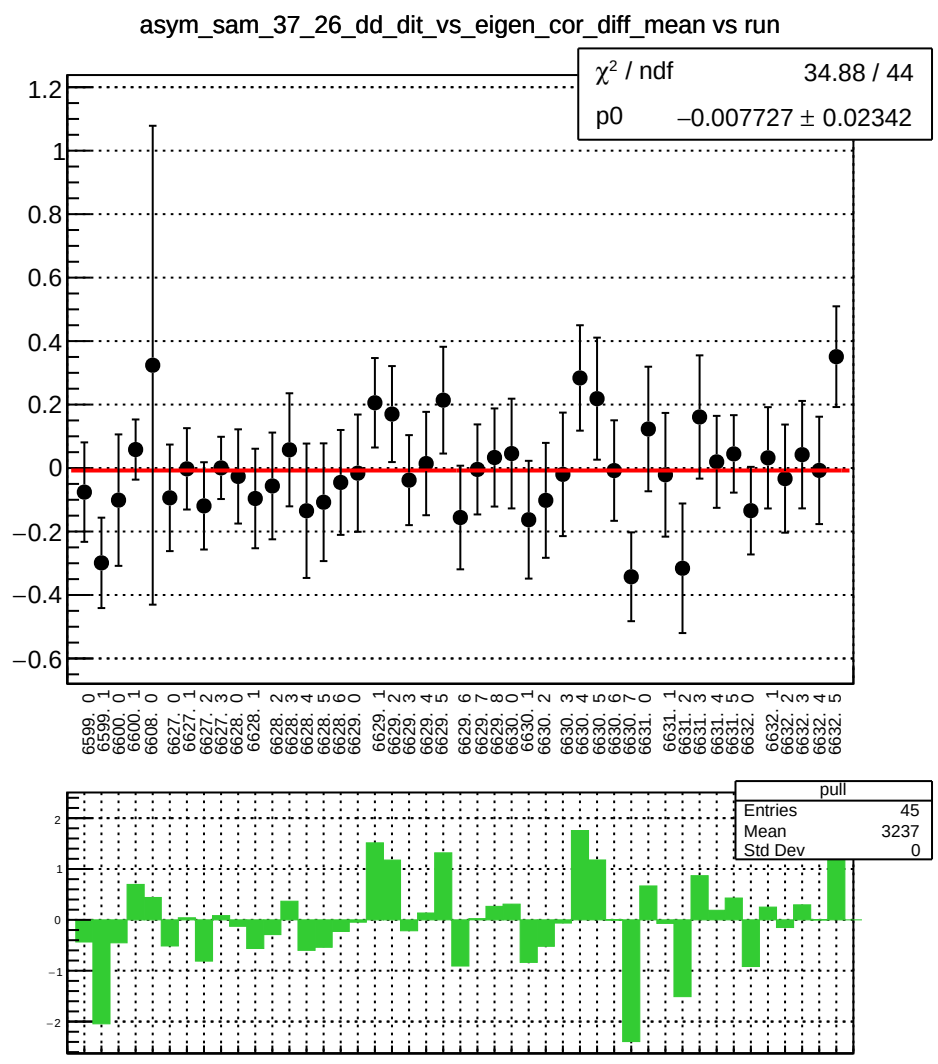
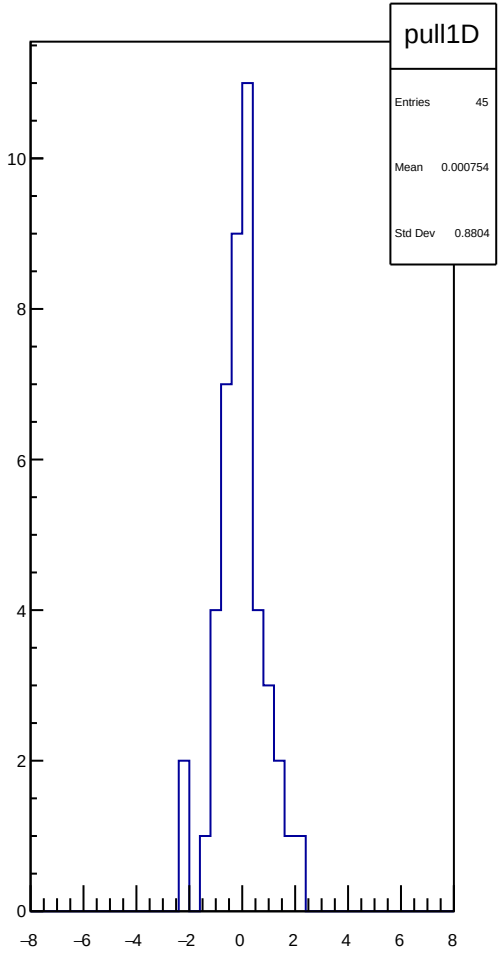
6632. 4
6632. 5

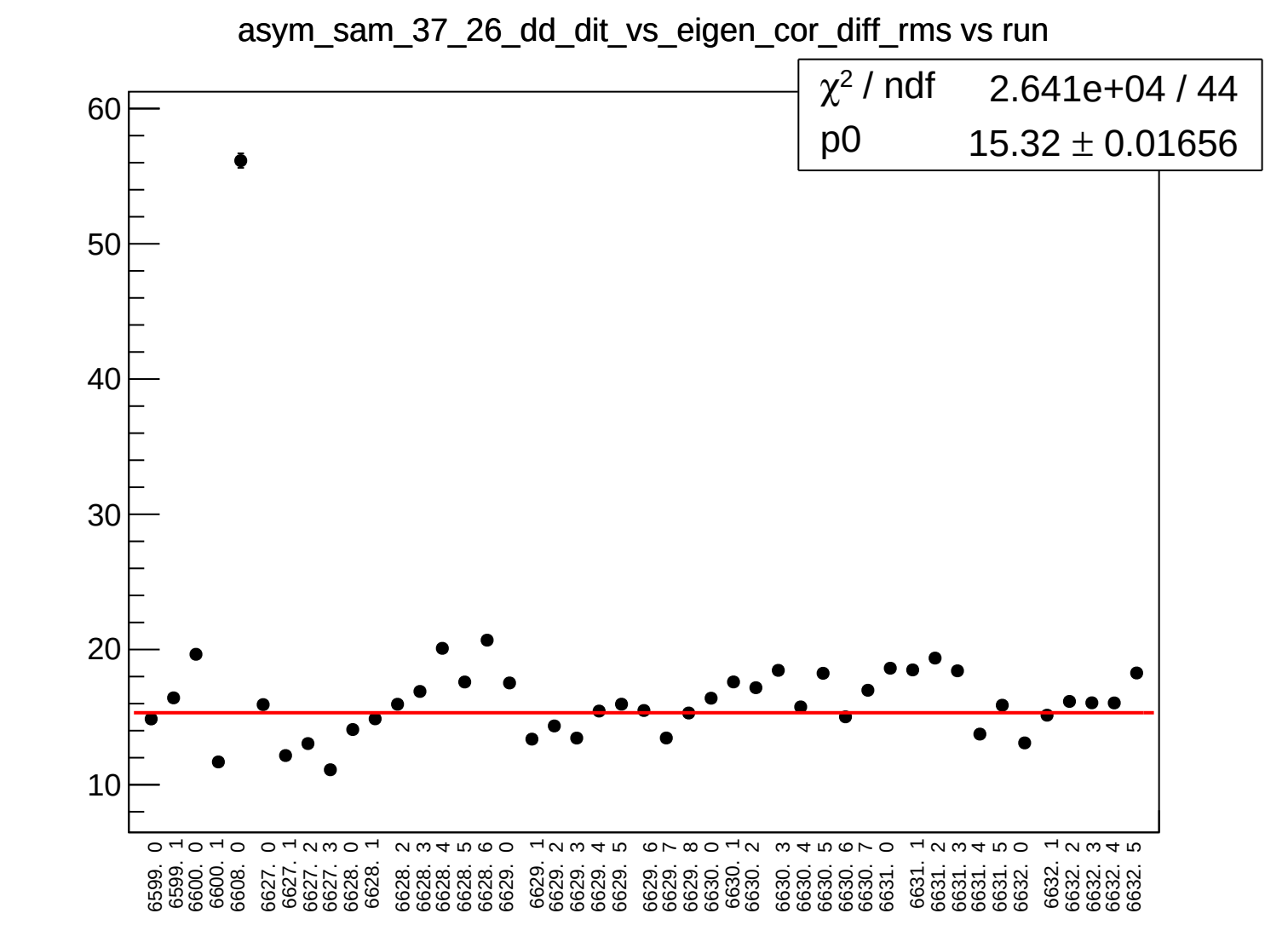

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 34.88 / 44
p0 −0.007727 ± 0.02342
pull
Entries 45
Mean 3237
Std Dev 0

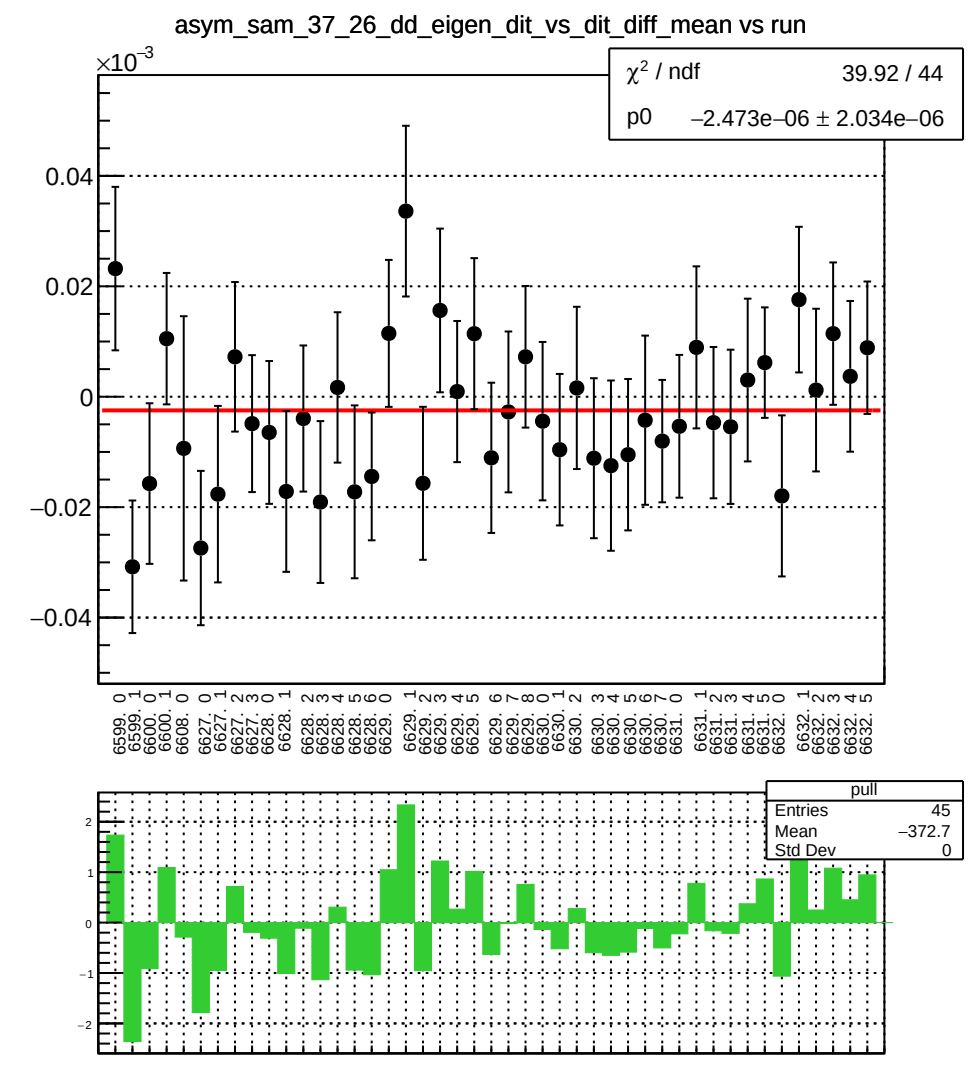

pull1D
Entries 45
Mean 0.000754
Std Dev 0.8804

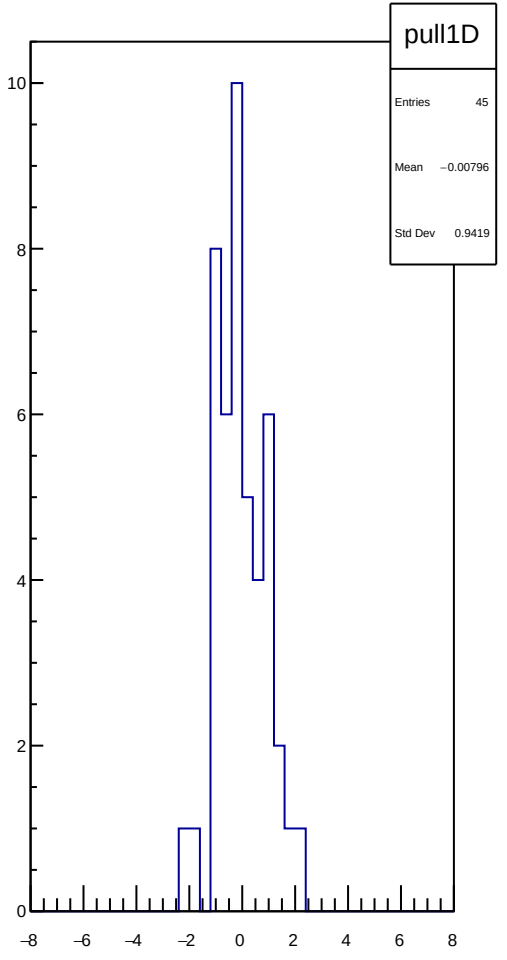

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.641e+04 / 44
p0 15.32 ± 0.01656
60
50
40
30
20
10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

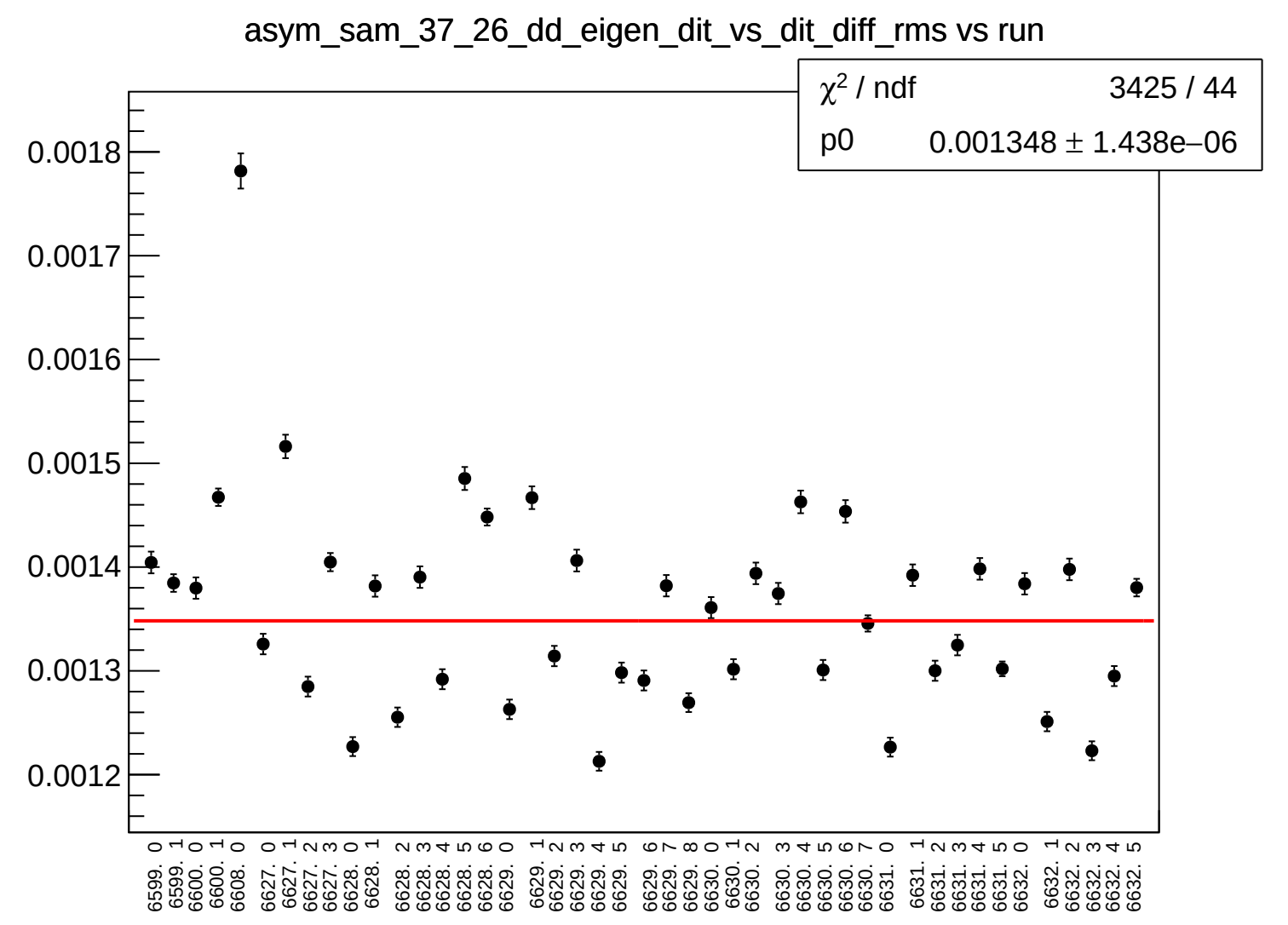

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.88 / 44
p0 −0.007727 ± 0.02342
pull
Entries 45
Mean 3237
Std Dev 0

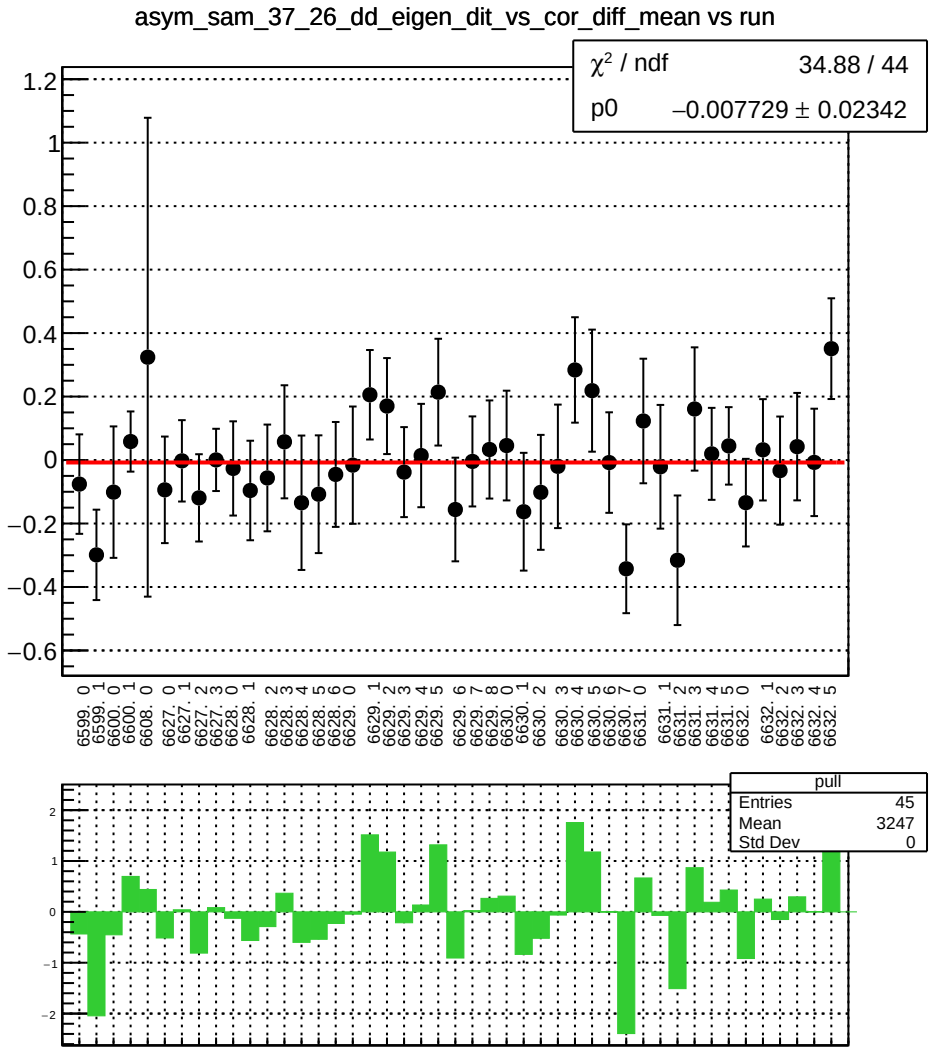

pull1D
Entries 45
Mean 0.000754
Std Dev 0.8804

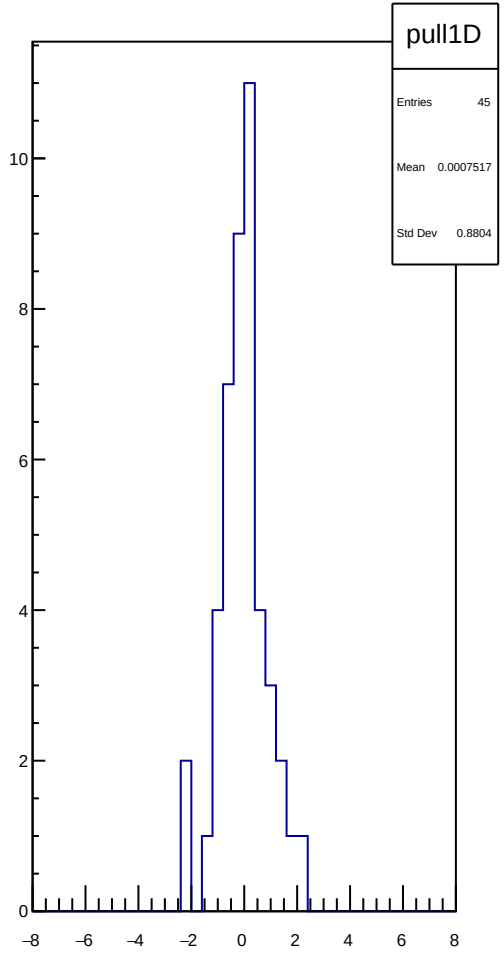

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.641e+04 / 44
p0 15.32 ± 0.01656
60
50
40
30
20
10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

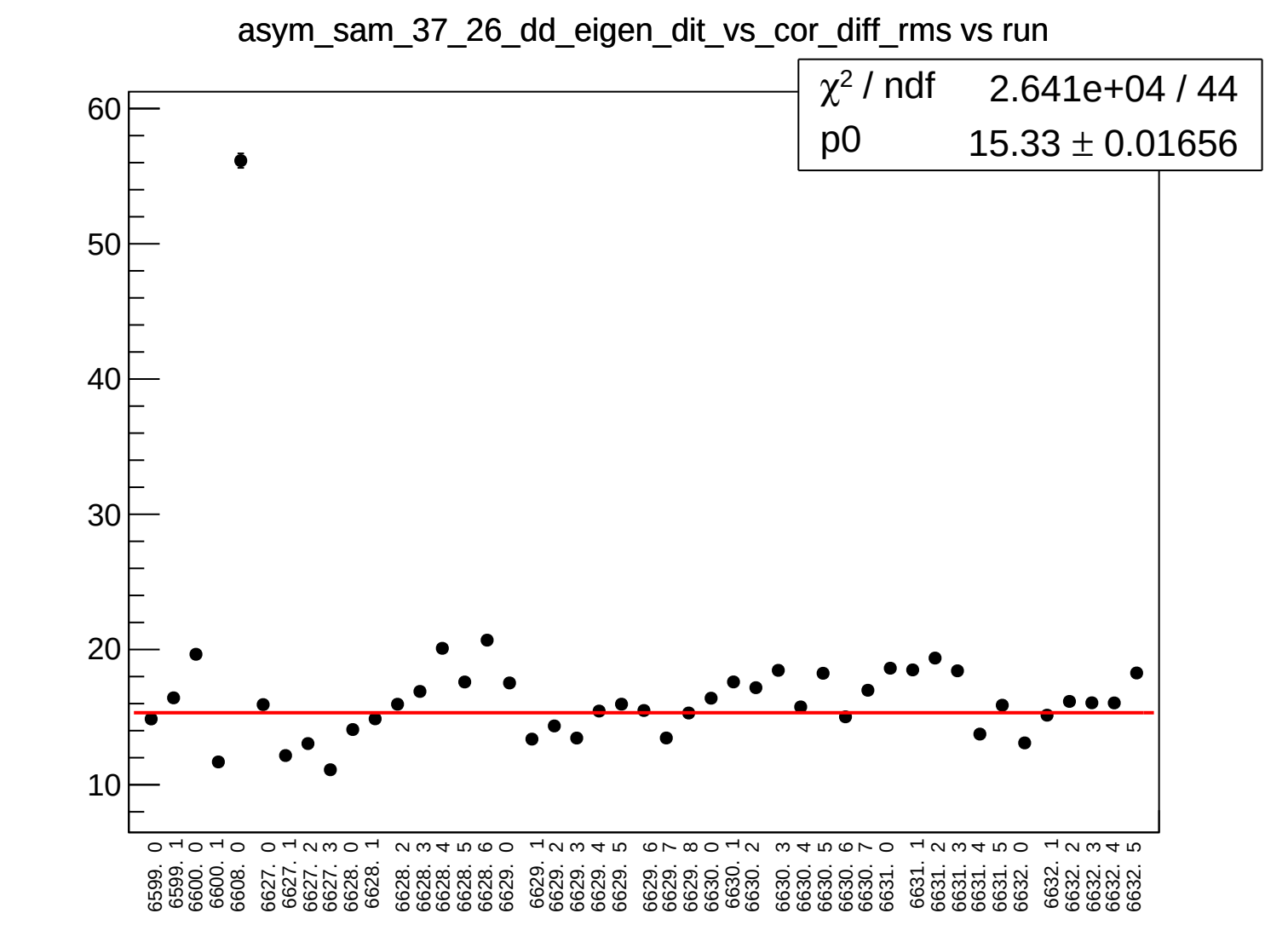

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 39.92 / 44
p0 −2.473e−06 ± 2.034e−06
0.04
0.02
0
−0.02
−0.04
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −372.7
Std Dev 0
2
1
0
−1
−2

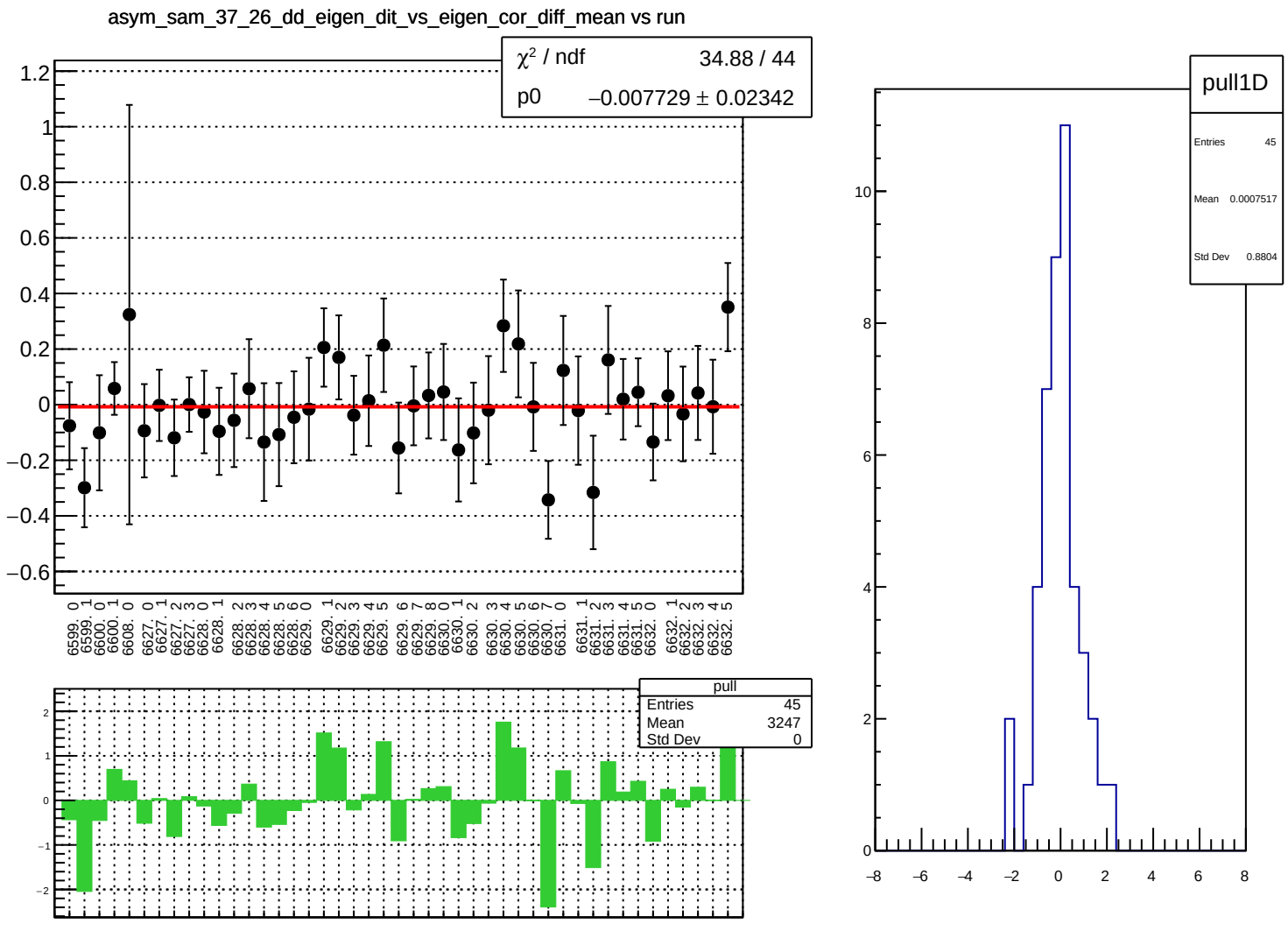

pull1D
Entries 45
Mean −0.00796
Std Dev 0.9419
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

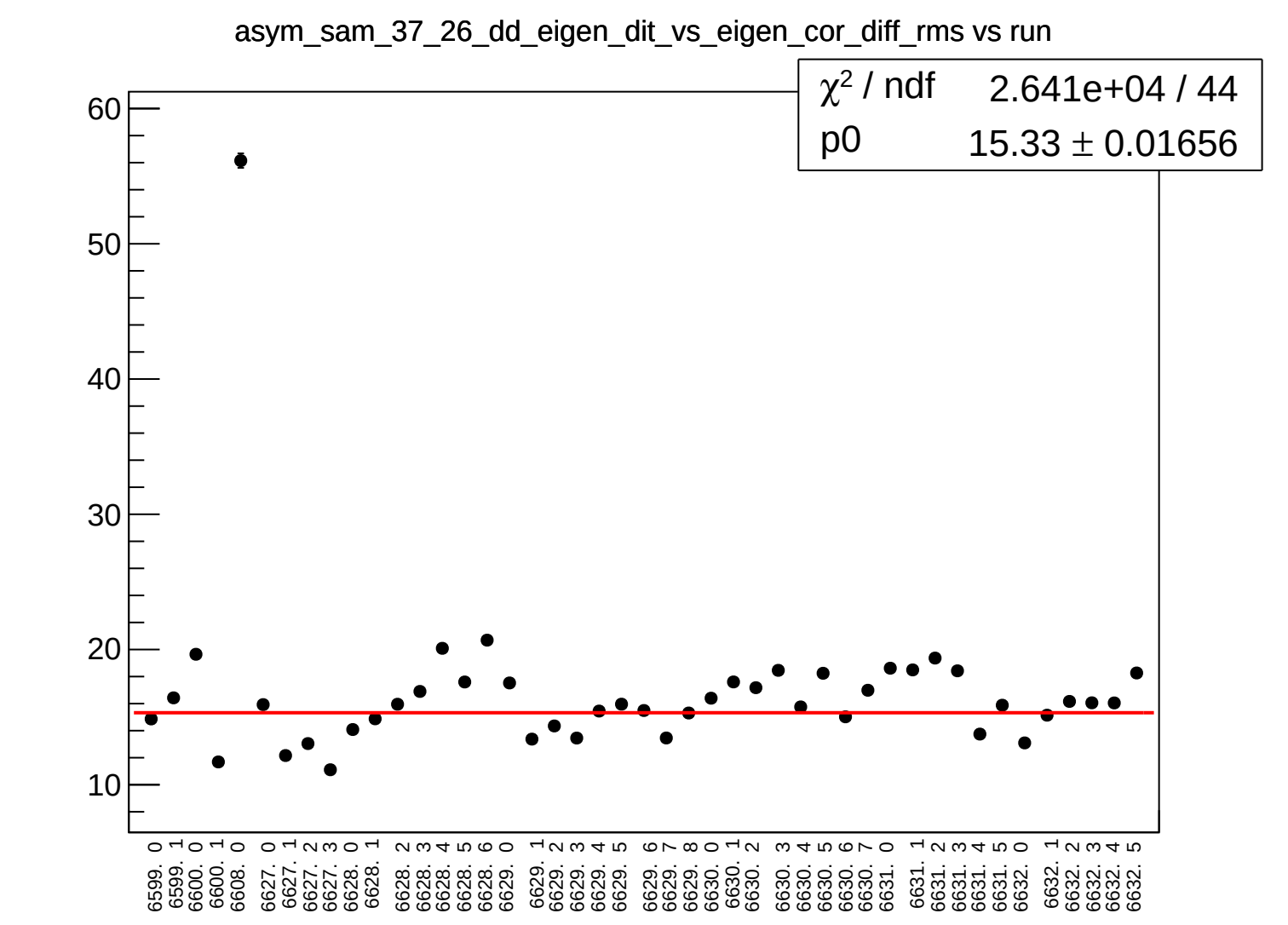

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3425 / 44
p0 0.001348 ± 1.438e−06
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

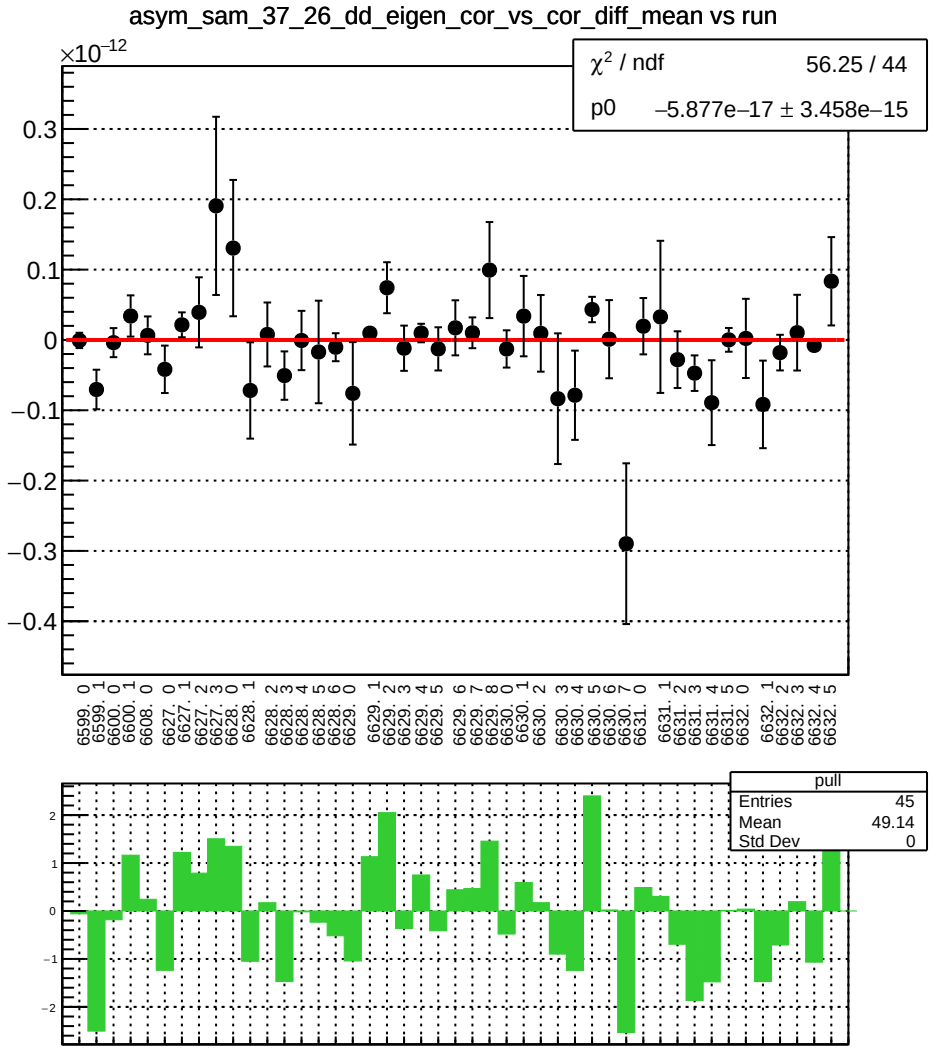

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 34.88 / 44
p0 −0.007729 ± 0.02342
pull
Entries 45
Mean 3247
Std Dev 0

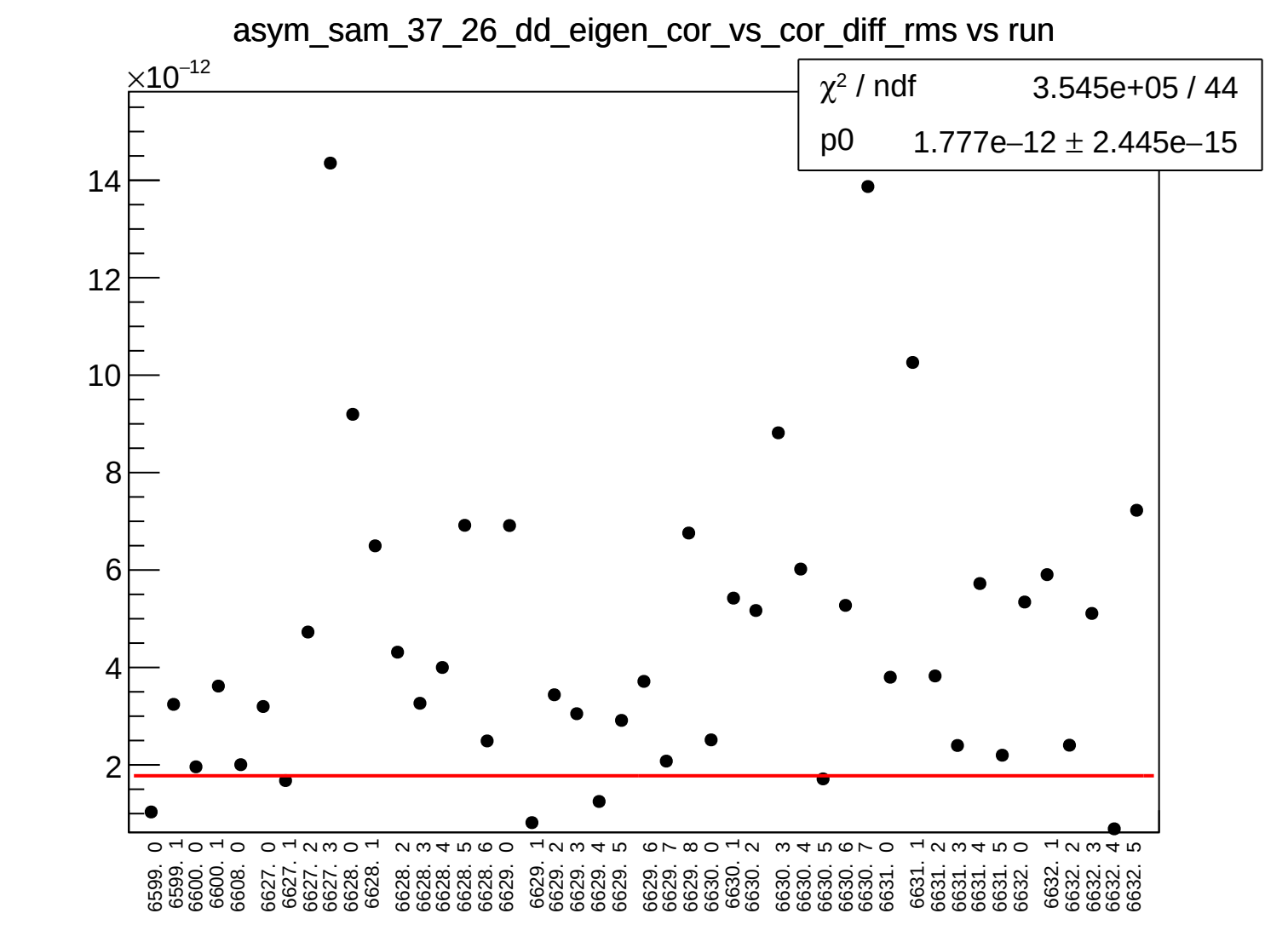

pull1D
Entries 45
Mean 0.0007517
Std Dev 0.8804

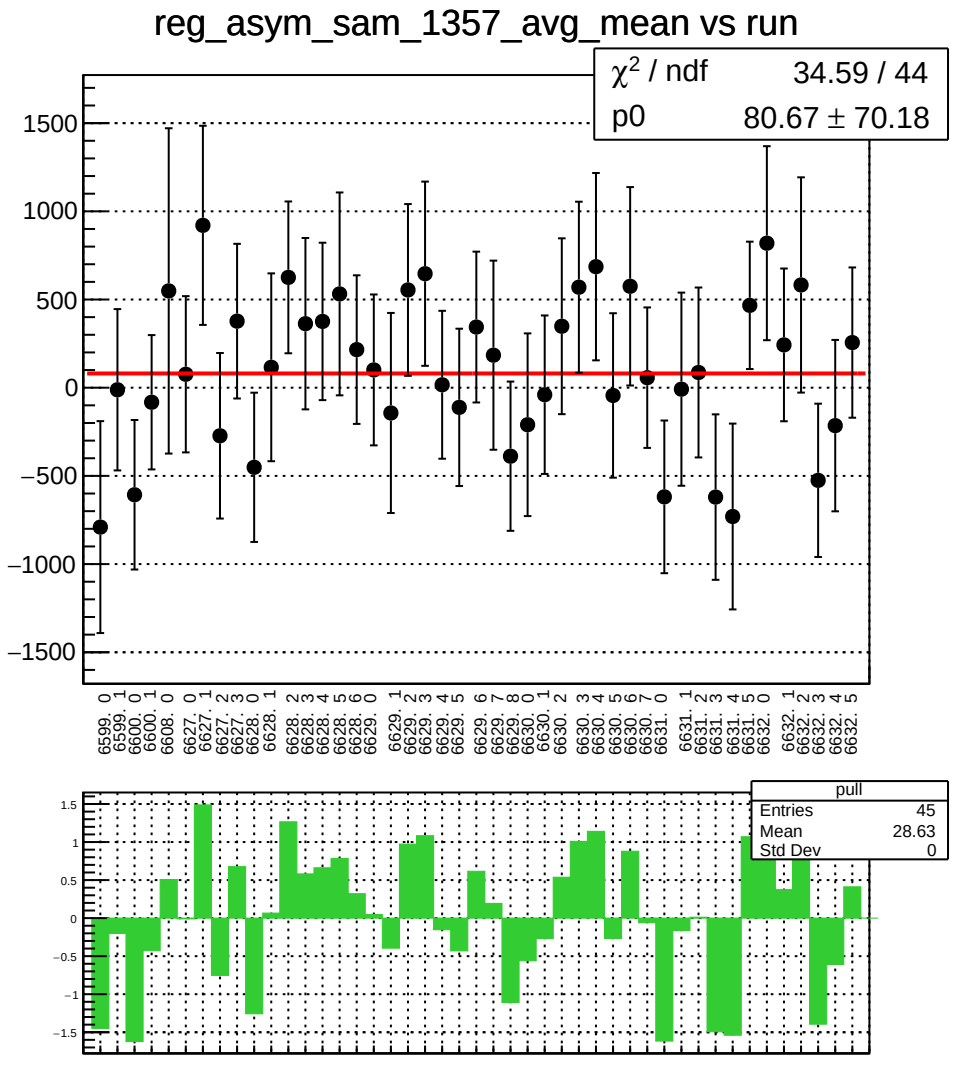

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.641e+04 / 44
p0 15.33 ± 0.01656
60
50
40
30
20
10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

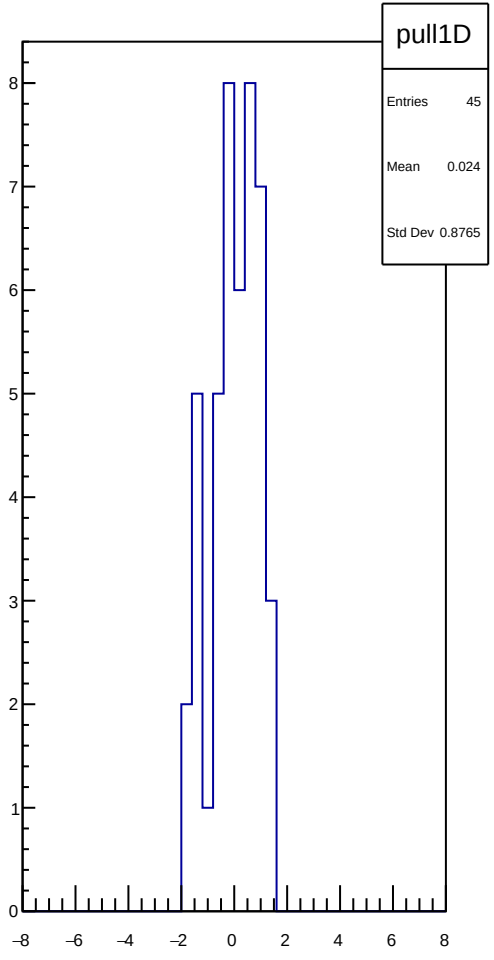

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.88 / 44
p0 −0.007729 ± 0.02342
pull
Entries 45
Mean 3247
Std Dev 0
pull1D
Entries 45
Mean 0.0007517
Std Dev 0.8804

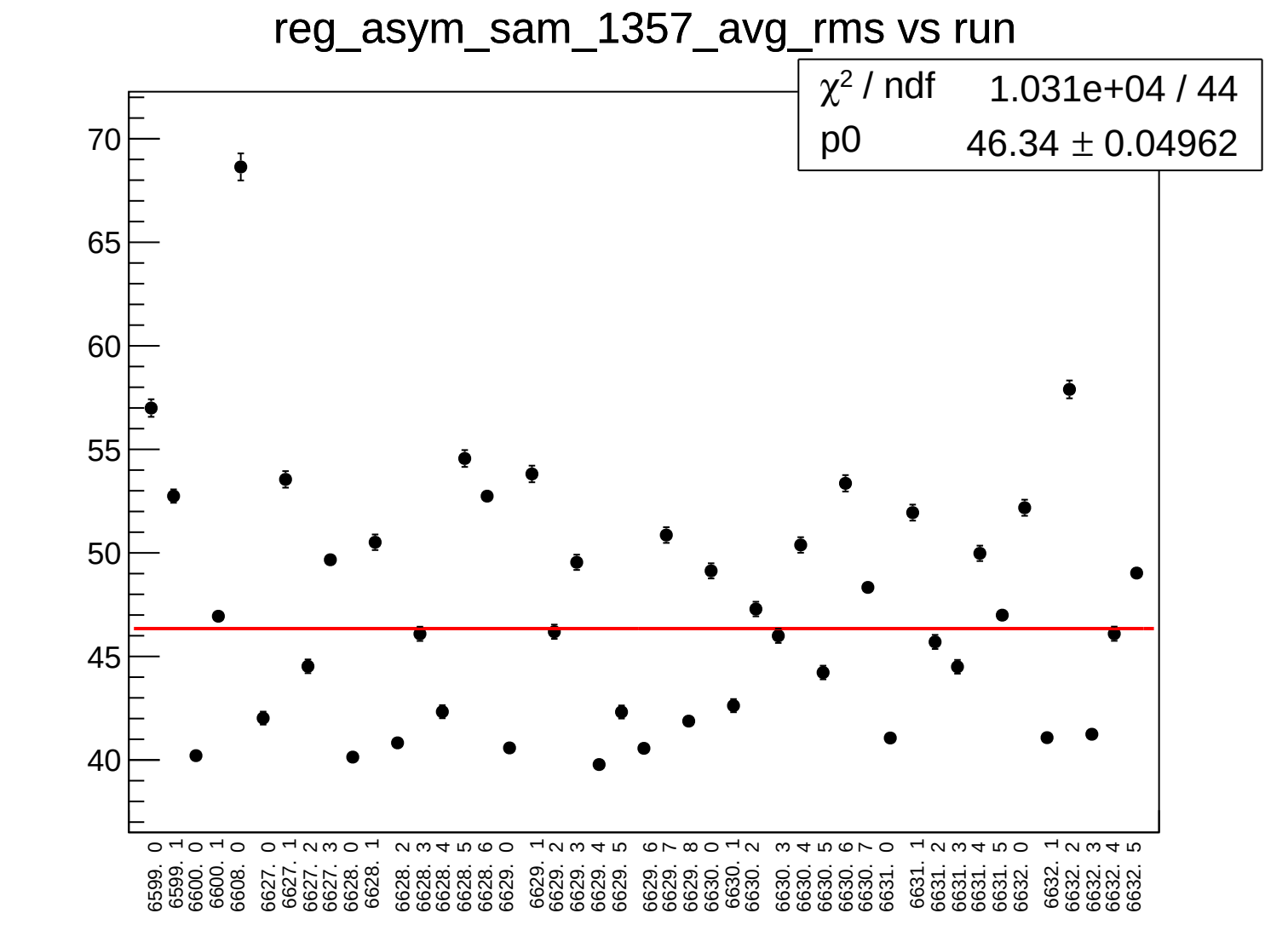

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.641e+04 / 44
p0 15.33 ± 0.01656
60
50
40
30
20
10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

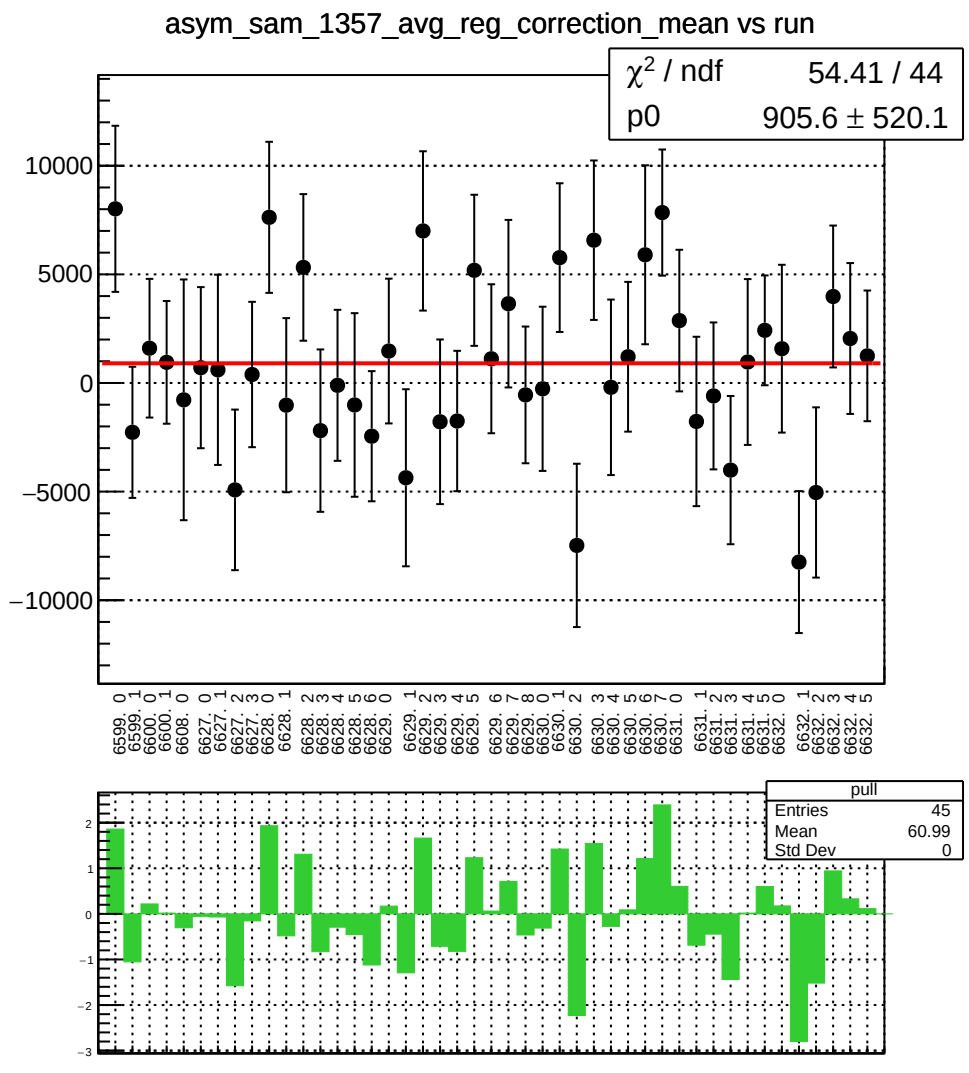

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 56.25 / 44
p0 −5.877e−17 ± 3.458e−15
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 49.14
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.07173
Std Dev 1.116
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

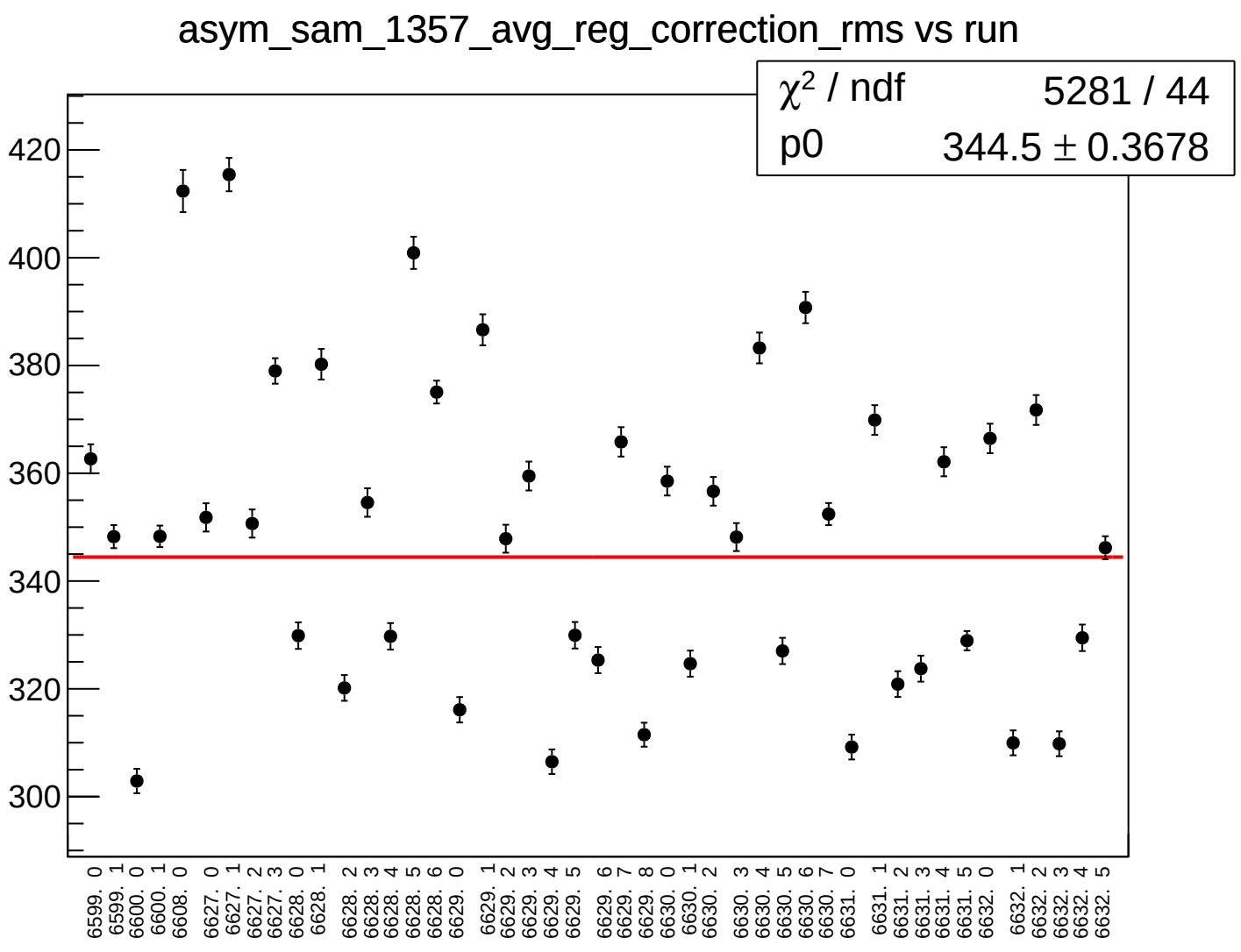

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.545e+05 / 44
p0 1.777e−12 ± 2.445e−15
14
12
10
8
6
4
2
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

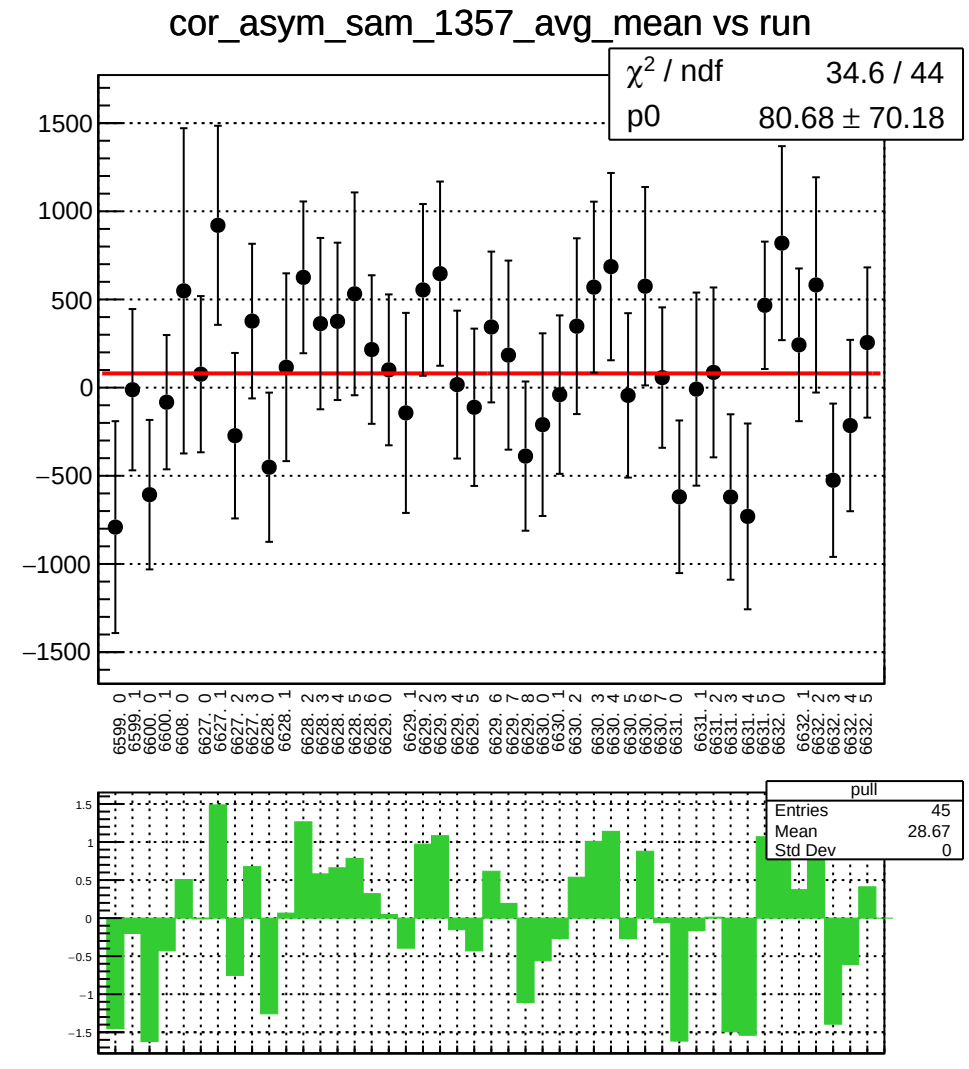

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 34.59 / 44
p0 80.67 ± 70.18
1500
1000
500
0
−500
−1000
−1500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 28.63
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.024
Std Dev 0.8765
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_1357_avg_rms vs run
$\chi^2$ / ndf 1.031e+04 / 44
p0 46.34 ± 0.04962
70
65
60
55
50
45
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 54.41 / 44
p0 905.6 ± 520.1
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 60.99
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.01714
Std Dev 1.099
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 5281 / 44
p0 344.5 ± 0.3678
420
400
380
360
340
320
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_sam_1357_avg_mean vs run
χ² / ndf 34.6 / 44
p0 80.68 ± 70.18
1500
1000
500
0
−500
−1000
−1500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
6628. 3
6628. 4
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6628. 6
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6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 28.67
Std Dev 0
1.5
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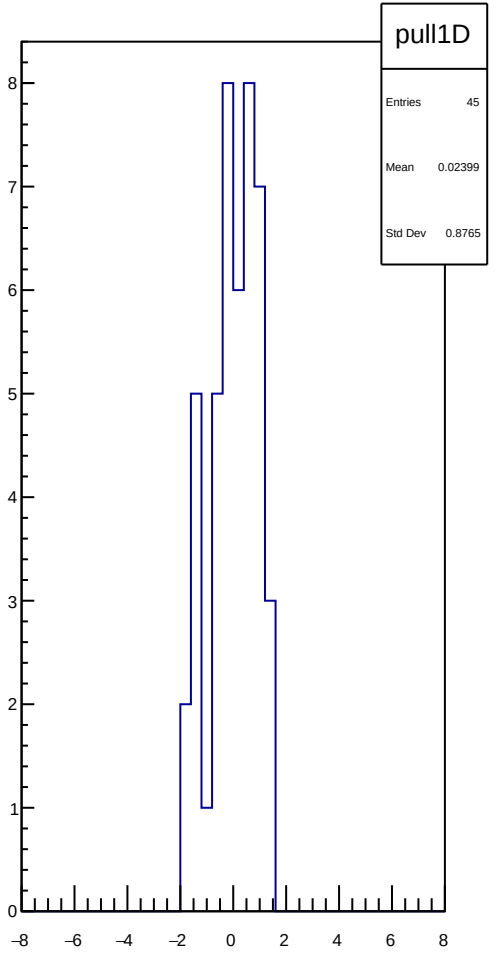
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.02399
Std Dev 0.8765
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5
4
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1
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−4
−2
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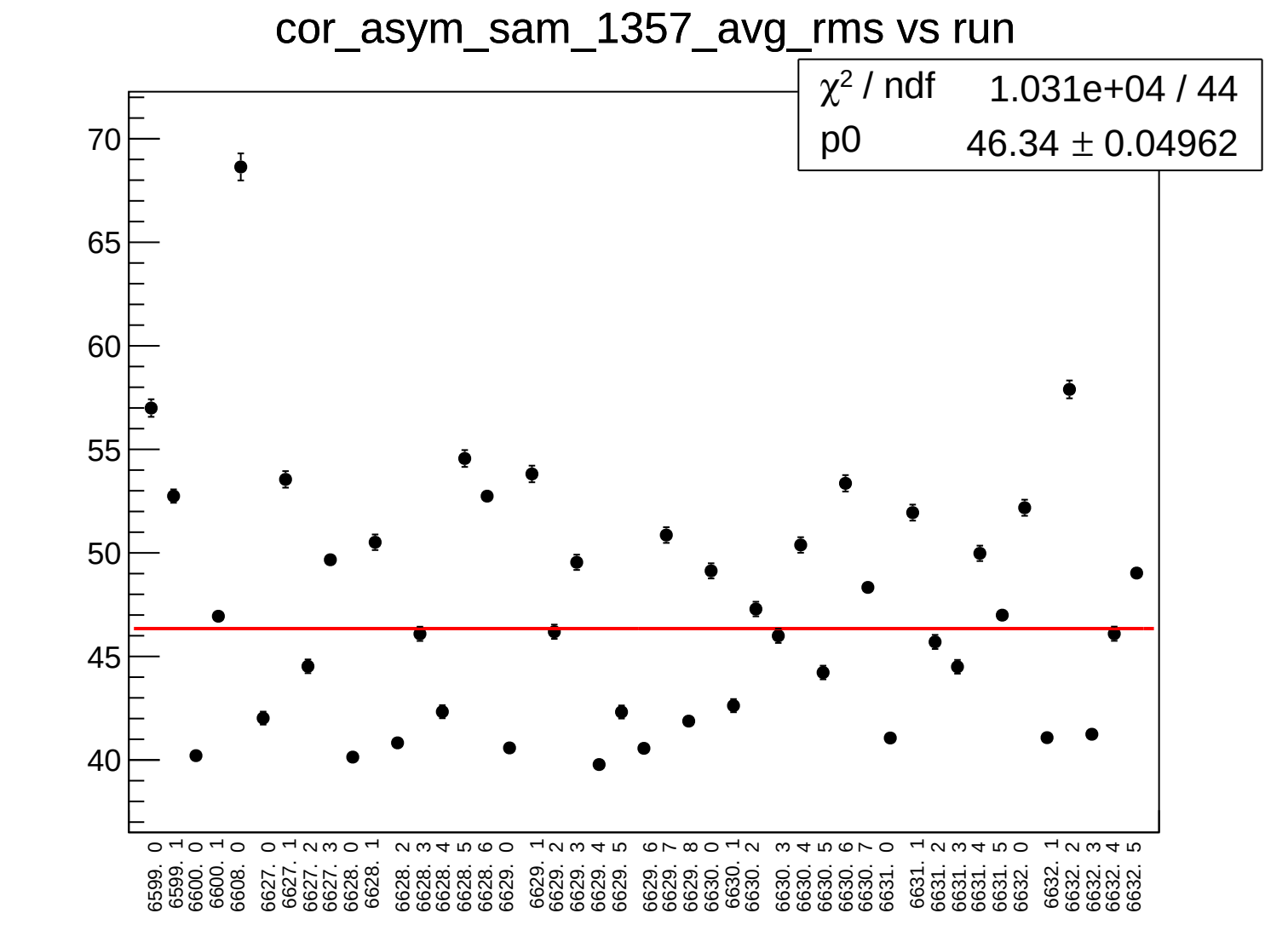
2
4
6
8


cor_asym_sam_1357_avg_rms vs run
$\chi^2$ / ndf 1.031e+04 / 44
p0 46.34 ± 0.04962
70
65
60
55
50
45
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 2
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6629. 6
6629. 7
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6630. 0
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6630. 7
6631. 0
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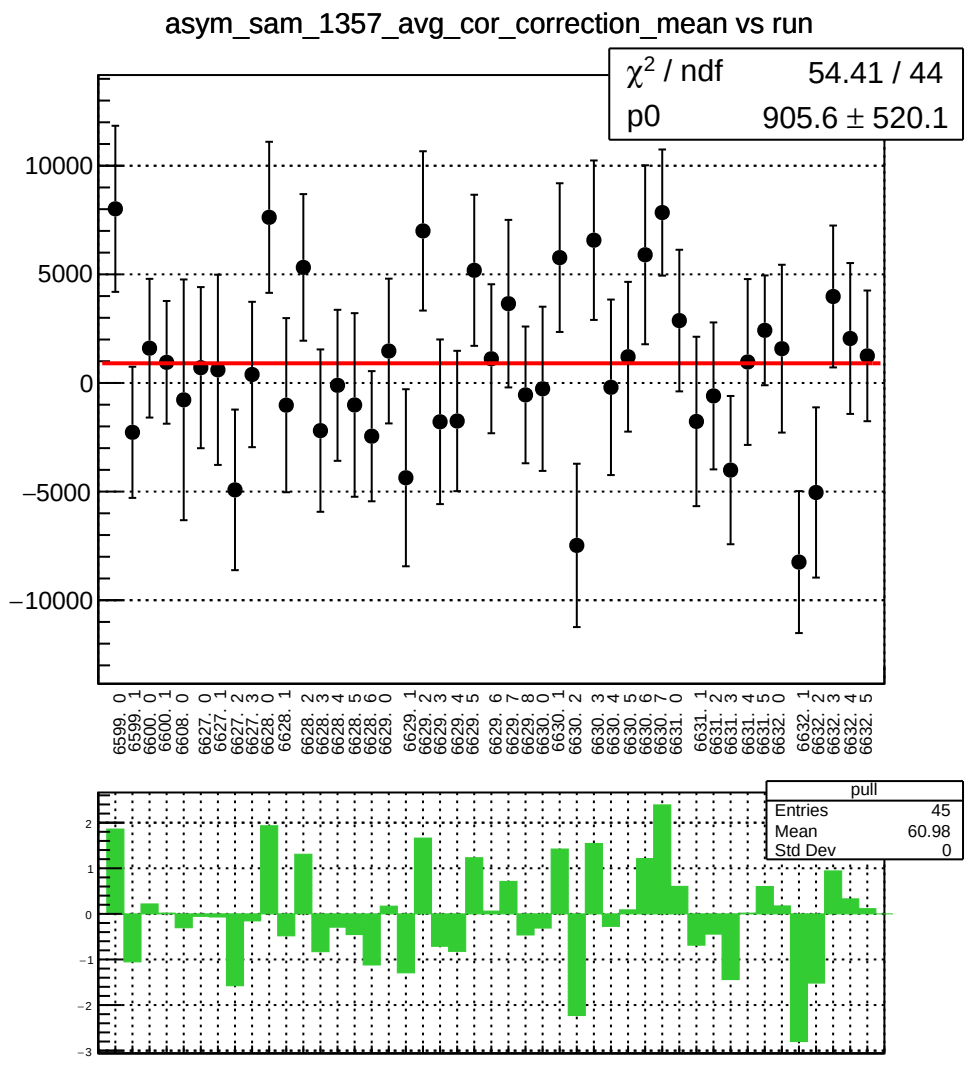
asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 54.41 / 44
p0 905.6 ± 520.1
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6628. 4
6628. 5
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6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 60.98
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.01714
Std Dev 1.099
9
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5
4
3
2
1
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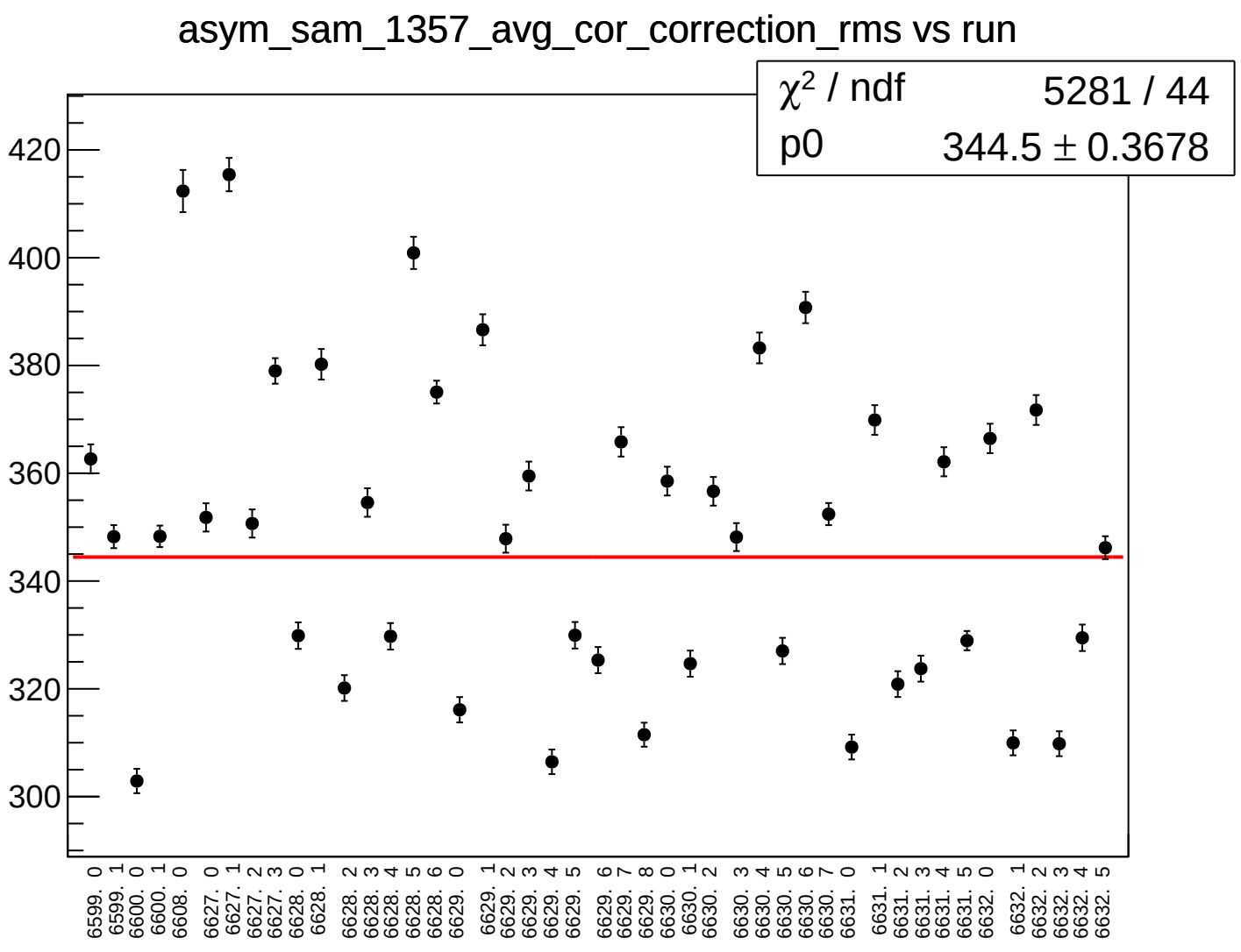
−6
−4
−2
0
2
4
6
8


asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 5281 / 44
p0 344.5 ± 0.3678
420
400
380
360
340
320
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 2
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6628. 6
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6629. 1
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6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 4
6630. 5
6630. 6
6630. 7
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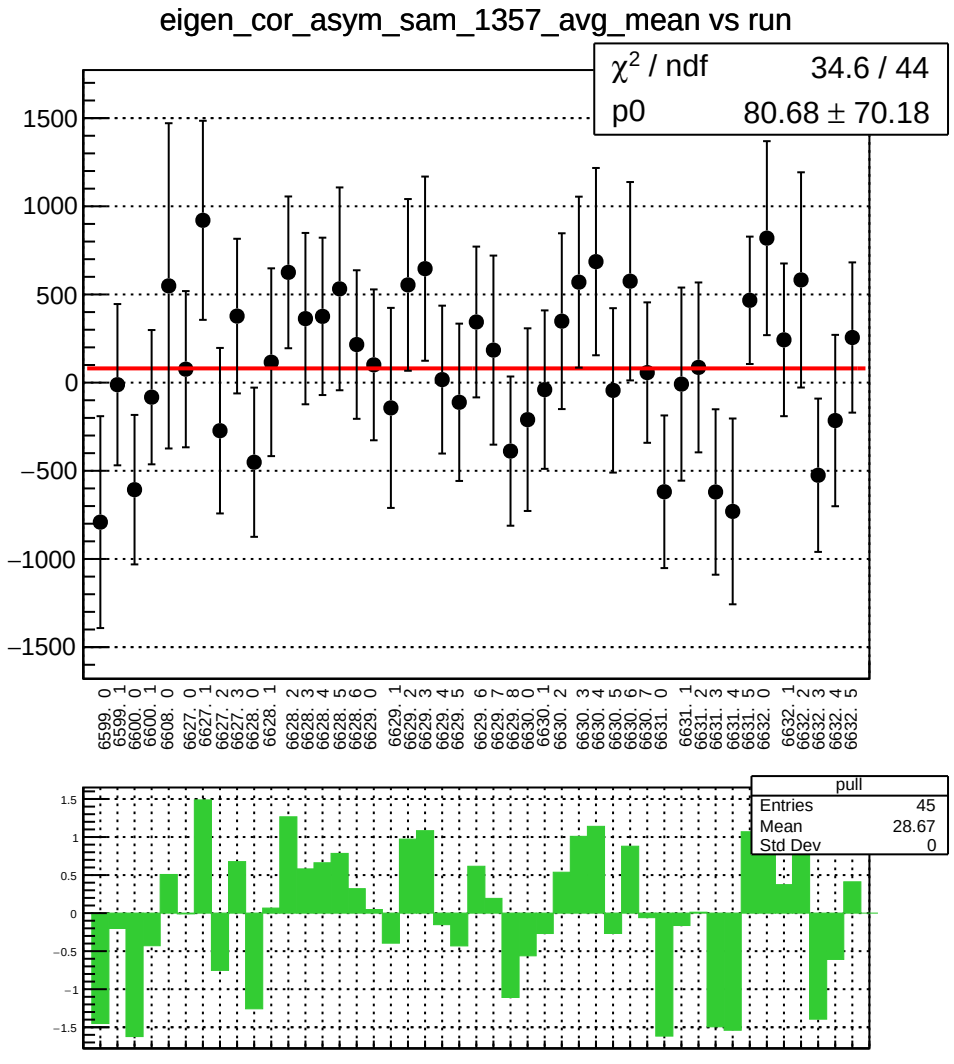
6632. 5


eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 34.6 / 44
p0 80.68 ± 70.18
1500
1000
500
0
−500
−1000
−1500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
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6629. 0
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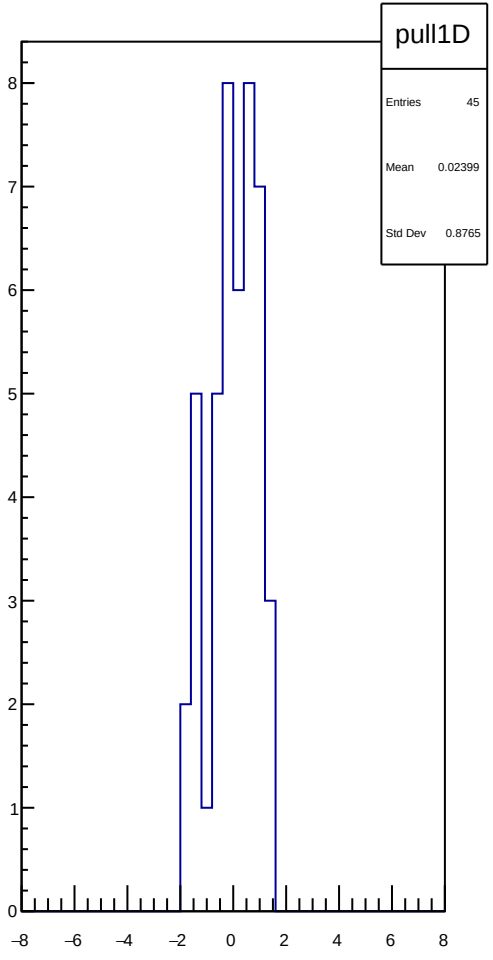
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 28.67
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.02399
Std Dev 0.8765
8
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5
4
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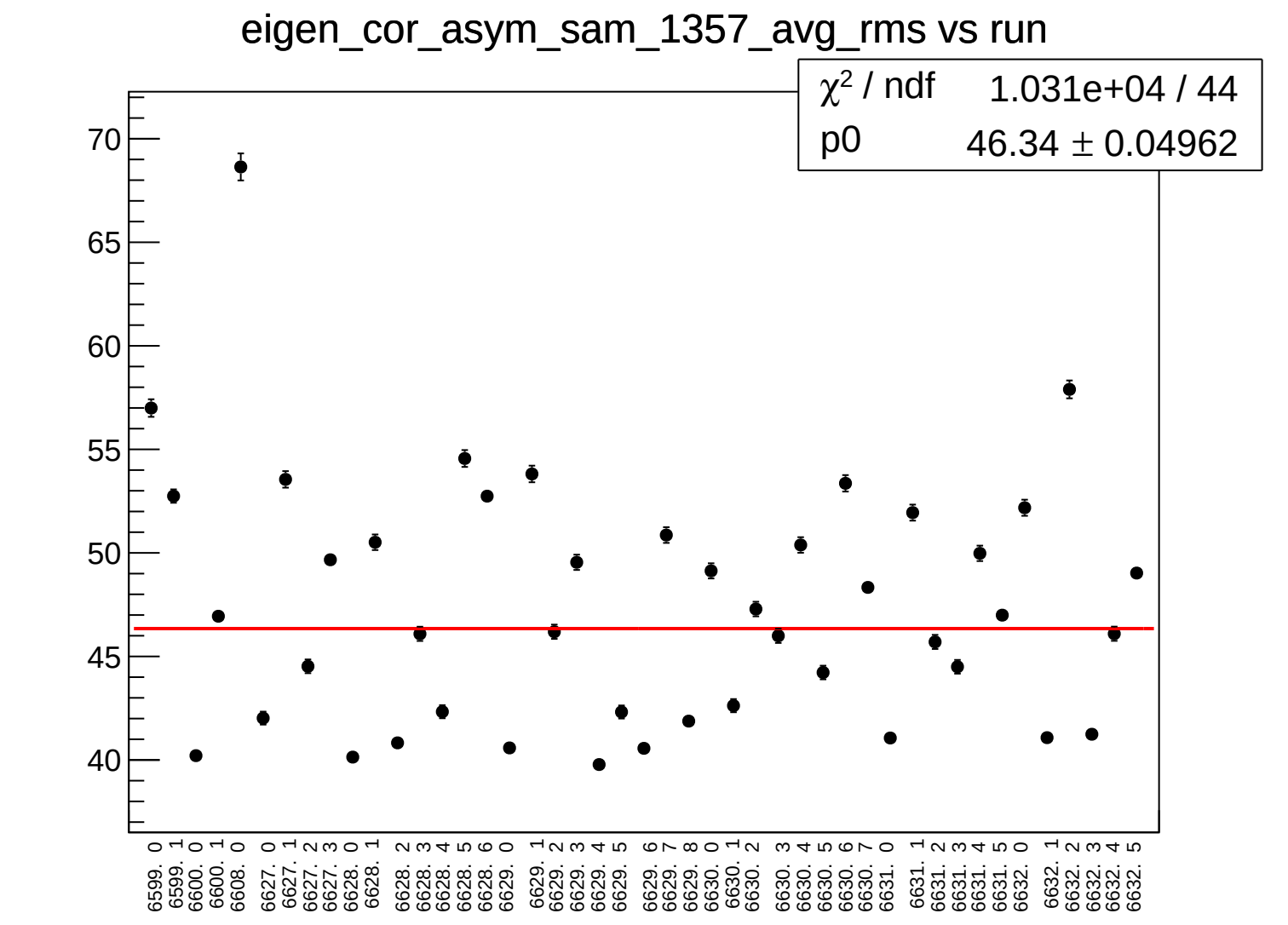
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_1357_avg_rms vs run
$\chi^2$ / ndf 1.031e+04 / 44
p0 46.34 ± 0.04962
70
65
60
55
50
45
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
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6629. 8
6630. 0
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6630. 2
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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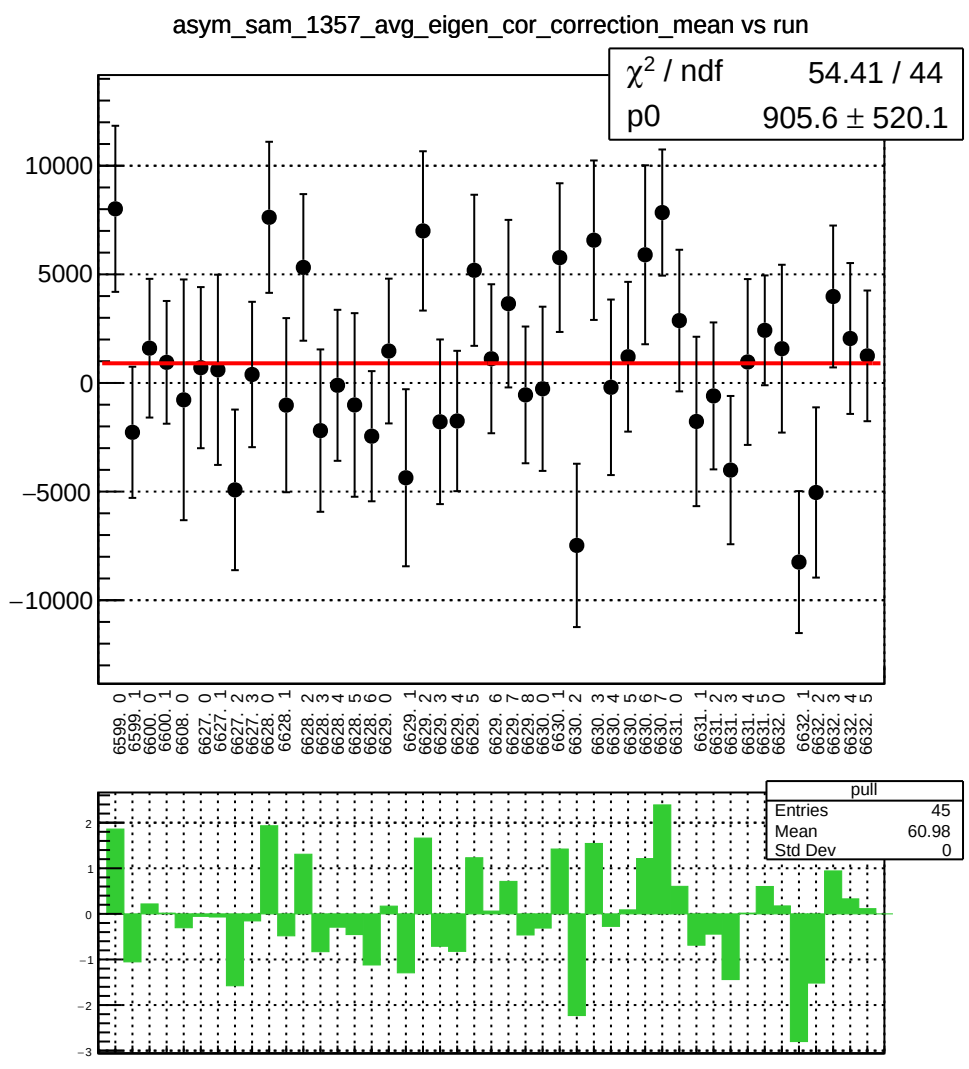
6632. 5


asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 54.41 / 44
p0 905.6 ± 520.1
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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6628. 4
6628. 5
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6629. 7
6629. 8
6630. 0
6630. 1
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6630. 3
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6630. 5
6630. 6
6630. 7
6631. 0
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 60.98
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.01714
Std Dev 1.099
9
8
7
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1
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−8
−6
−4
−2
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2
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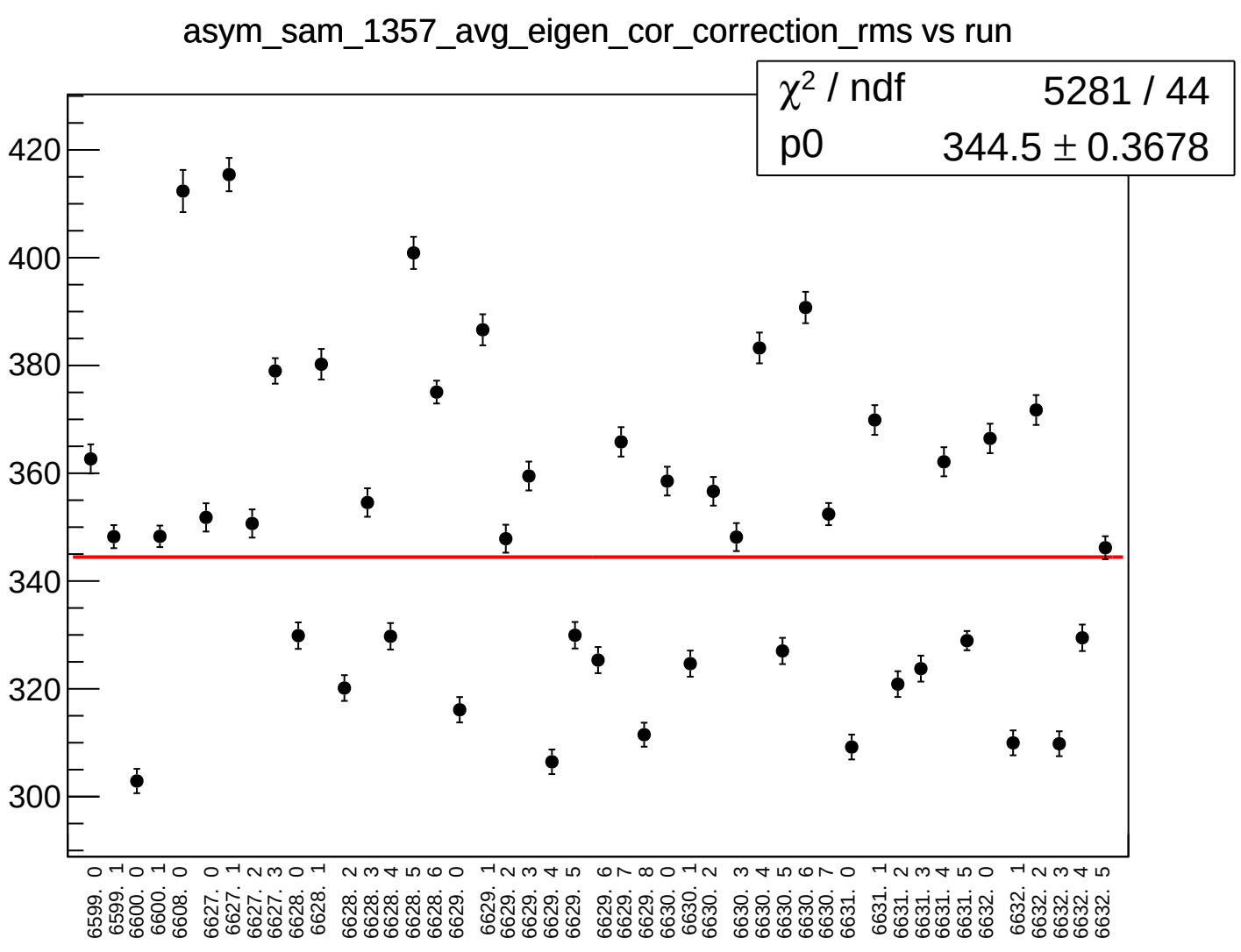
8


asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 5281 / 44
p0 344.5 ± 0.3678
420
400
380
360
340
320
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6629. 8
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6631. 4
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6632. 0
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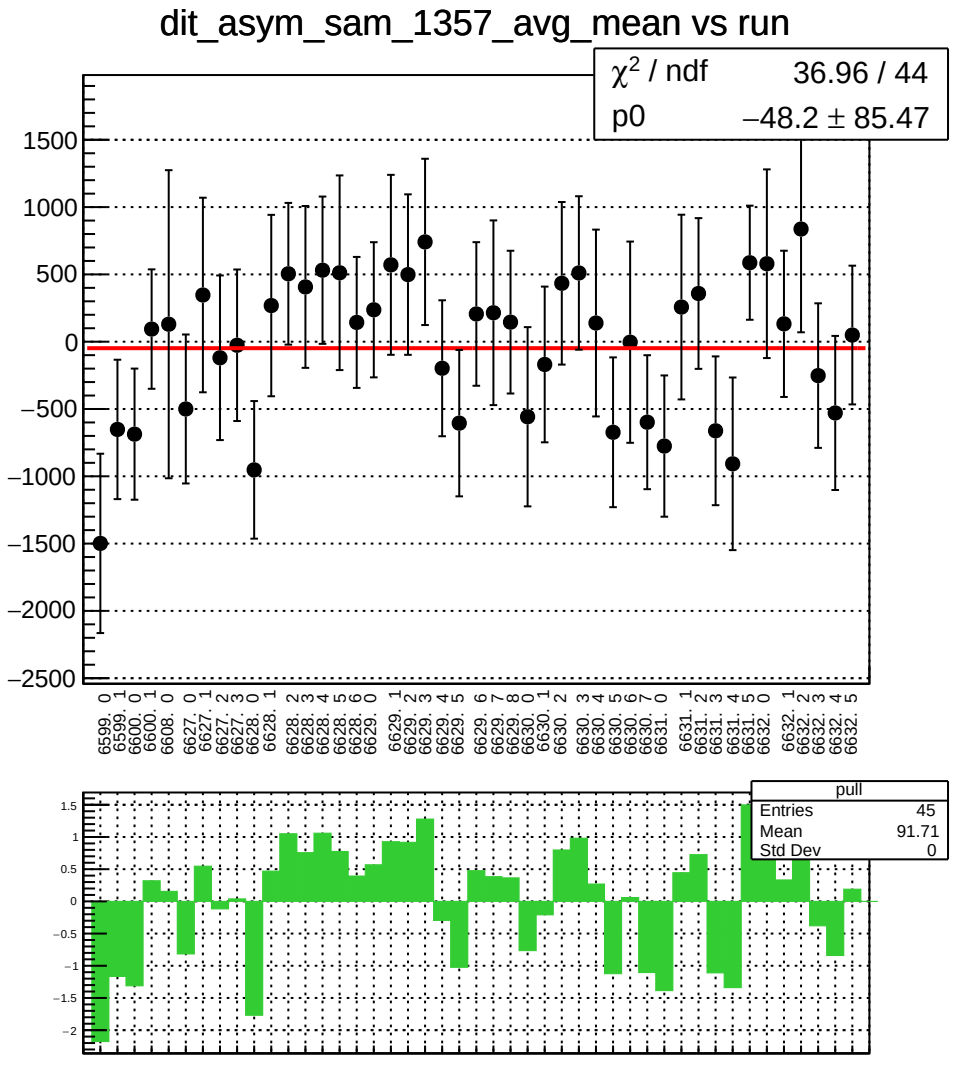
6632. 5


dit_asym_sam_1357_avg_mean vs run
χ² / ndf 36.96 / 44
p0 −48.2 ± 85.47
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
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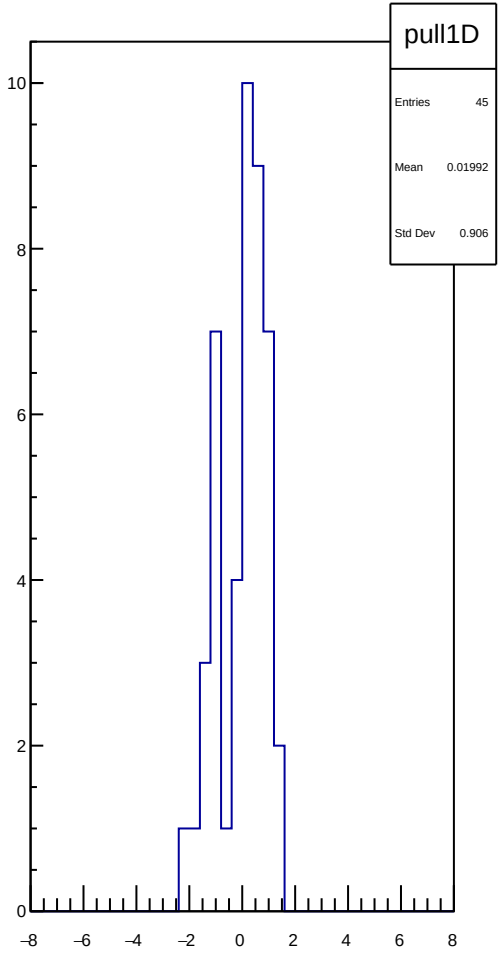
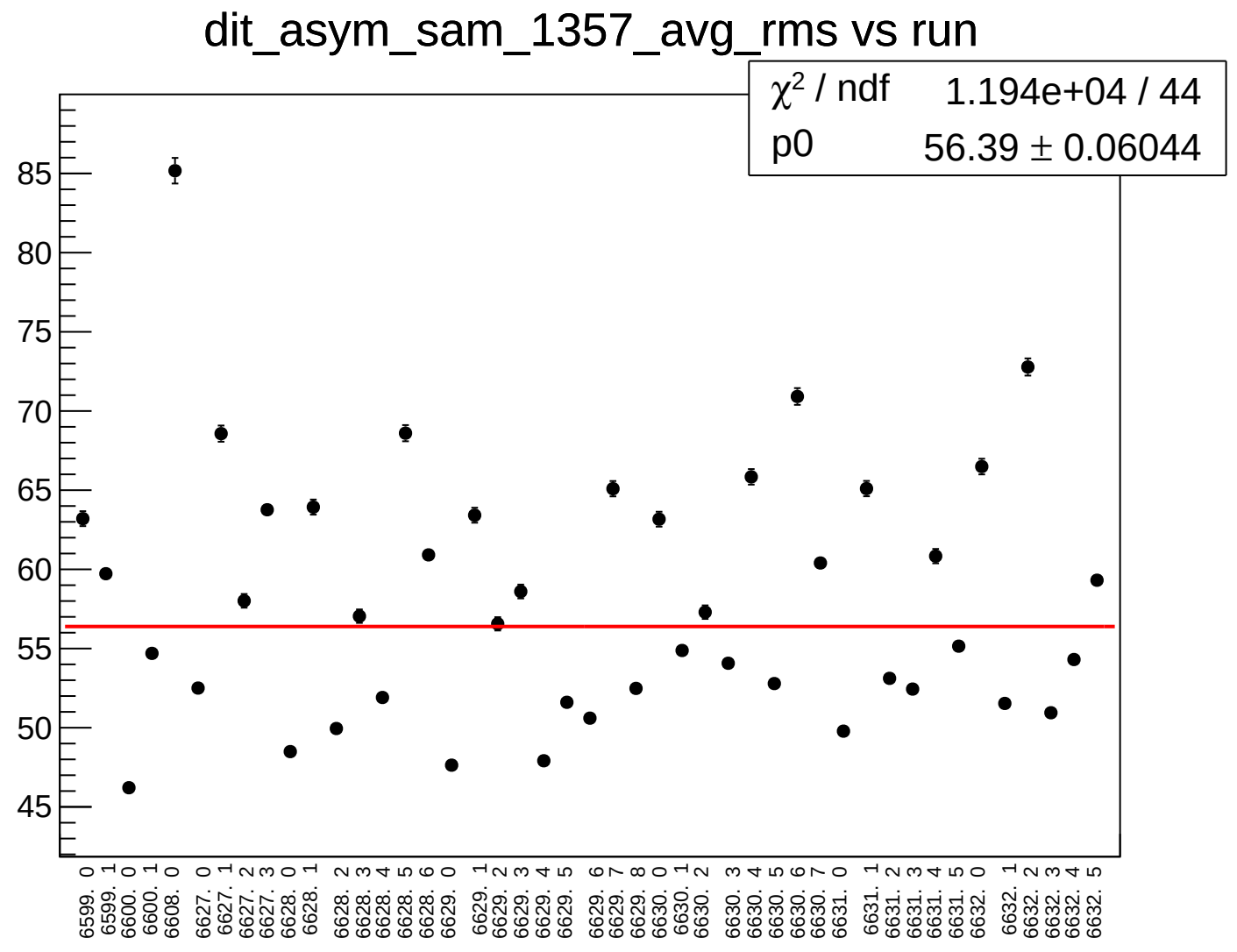
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 91.71
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.01992
Std Dev 0.906
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.194e+04 / 44
p0 56.39 ± 0.06044
85
80
75
70
65
60
55
50
45
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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6629. 0
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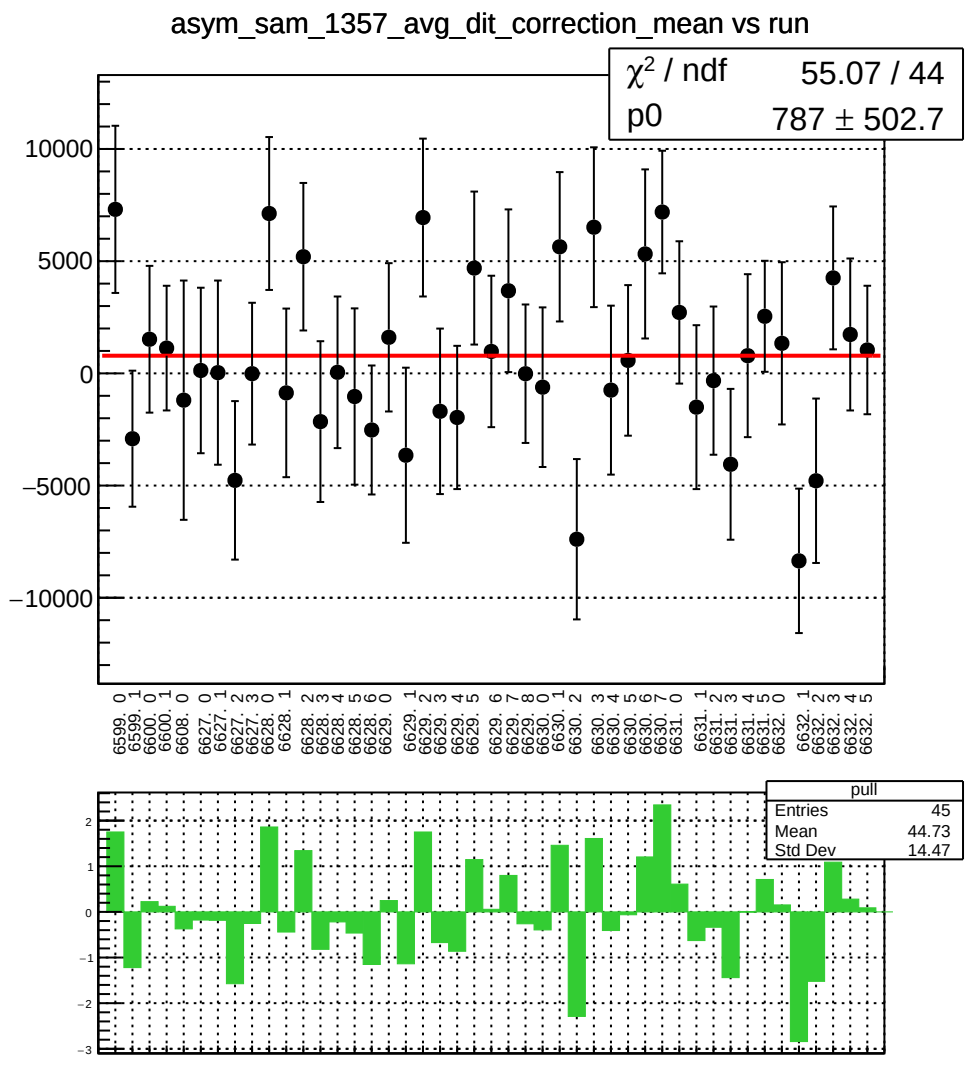
6632. 4
6632. 5


asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 55.07 / 44
p0 787 ± 502.7
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 44.73
Std Dev 14.47
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.01962
Std Dev 1.106
9
8
7
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5
4
3
2
1
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−4
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2
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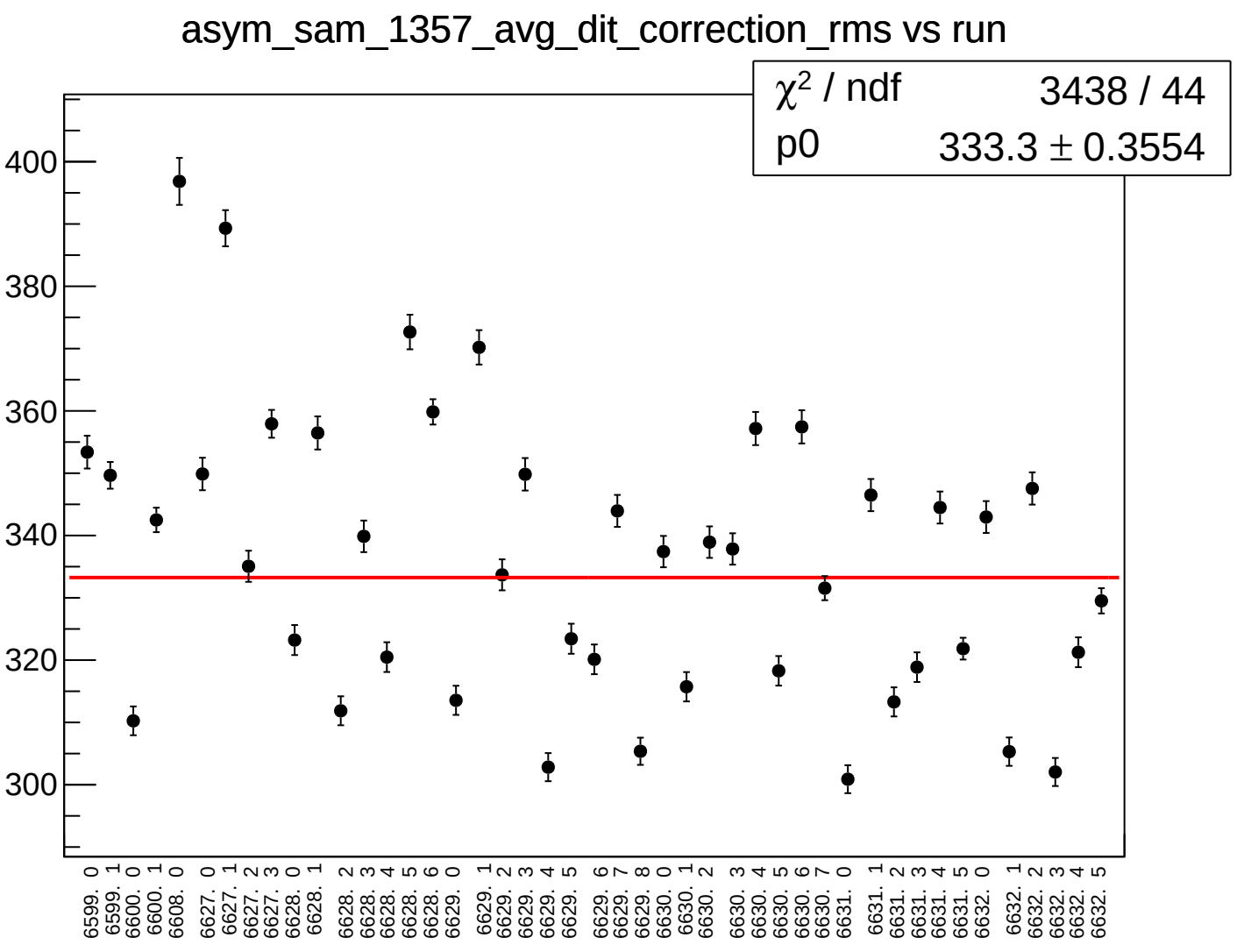
6
8


asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 3438 / 44
p0 333.3 ± 0.3554
400
380
360
340
320
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6599. 0
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6600. 0
6600. 1
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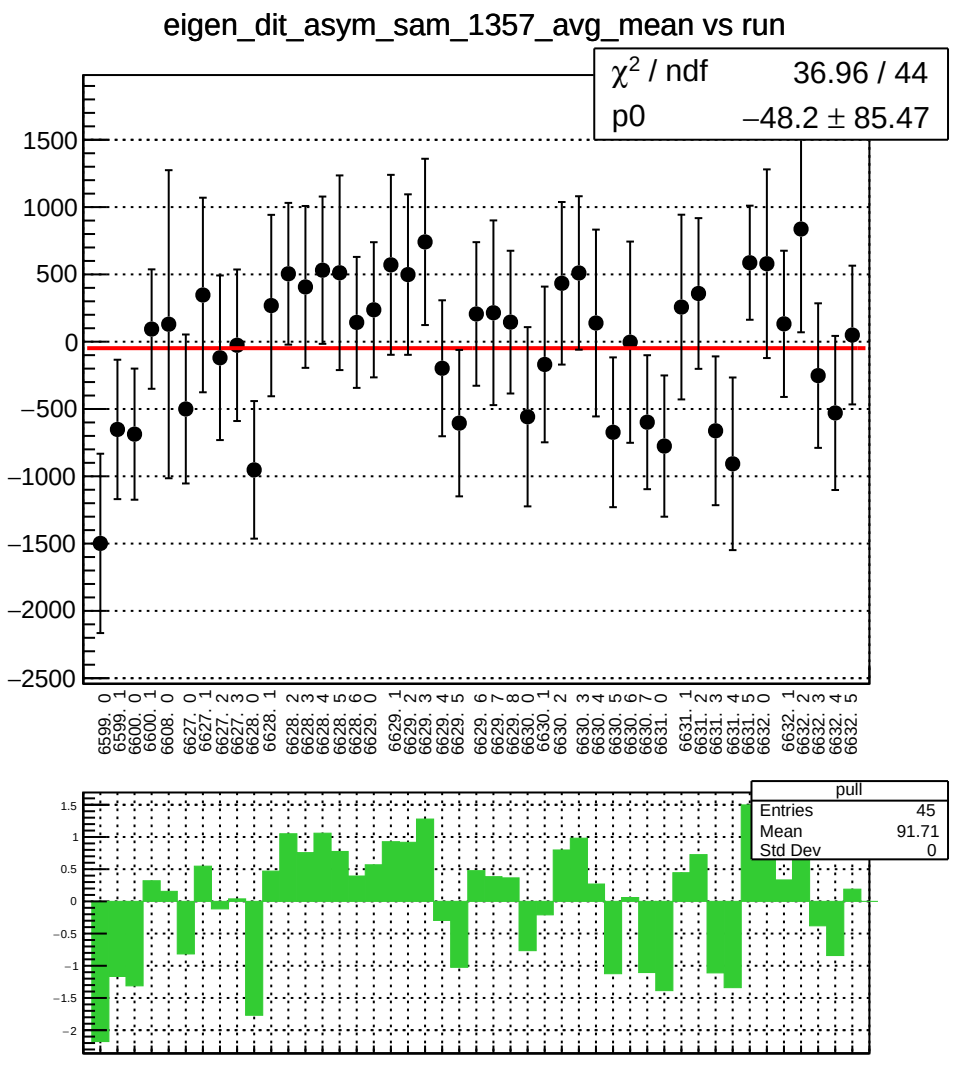
eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 36.96 / 44
p0 −48.2 ± 85.47
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6629. 7
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6631. 5
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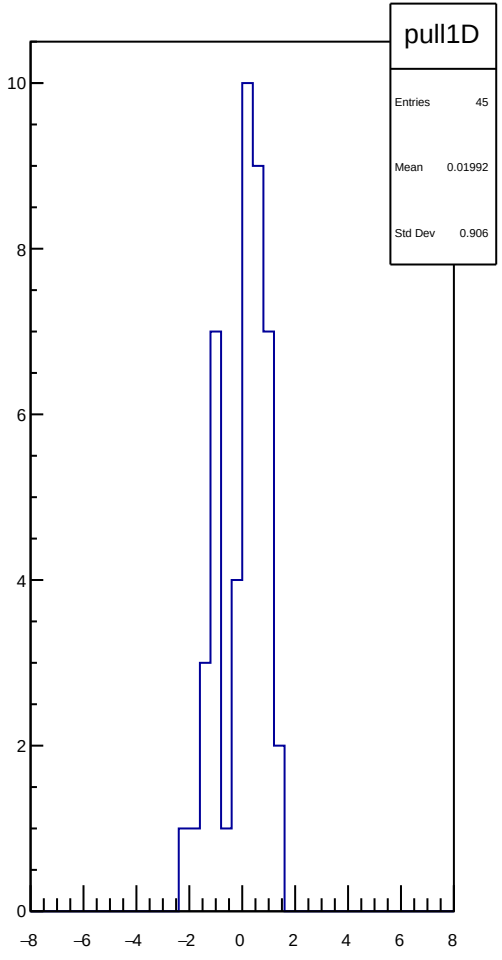
6632. 4
6632. 5
pull
Entries 45
Mean 91.71
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.01992
Std Dev 0.906
10
8
6
4
2
0
−8
−6
−4
−2
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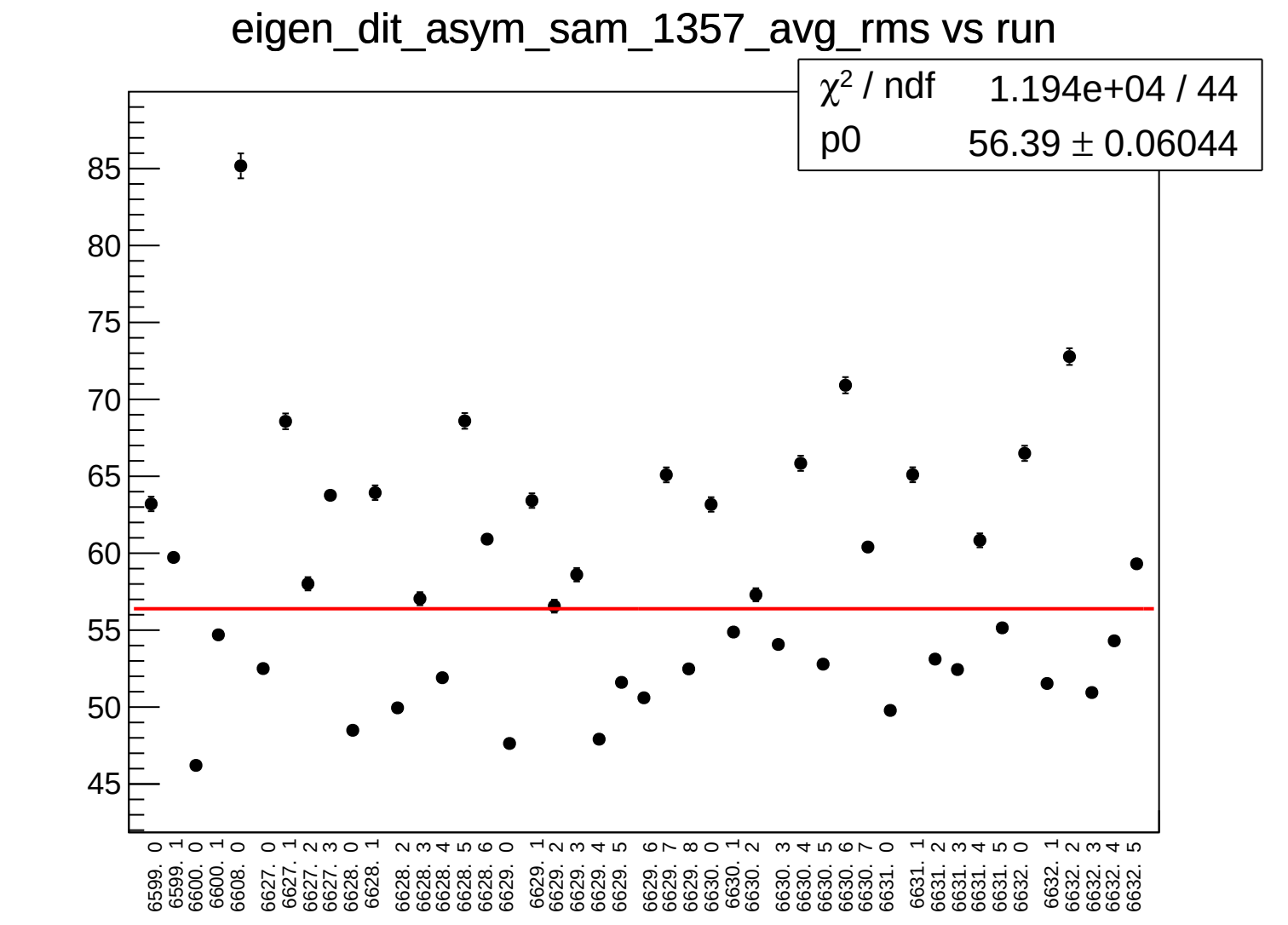
4
6
8


eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.194e+04 / 44
p0 56.39 ± 0.06044
85
80
75
70
65
60
55
50
45
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
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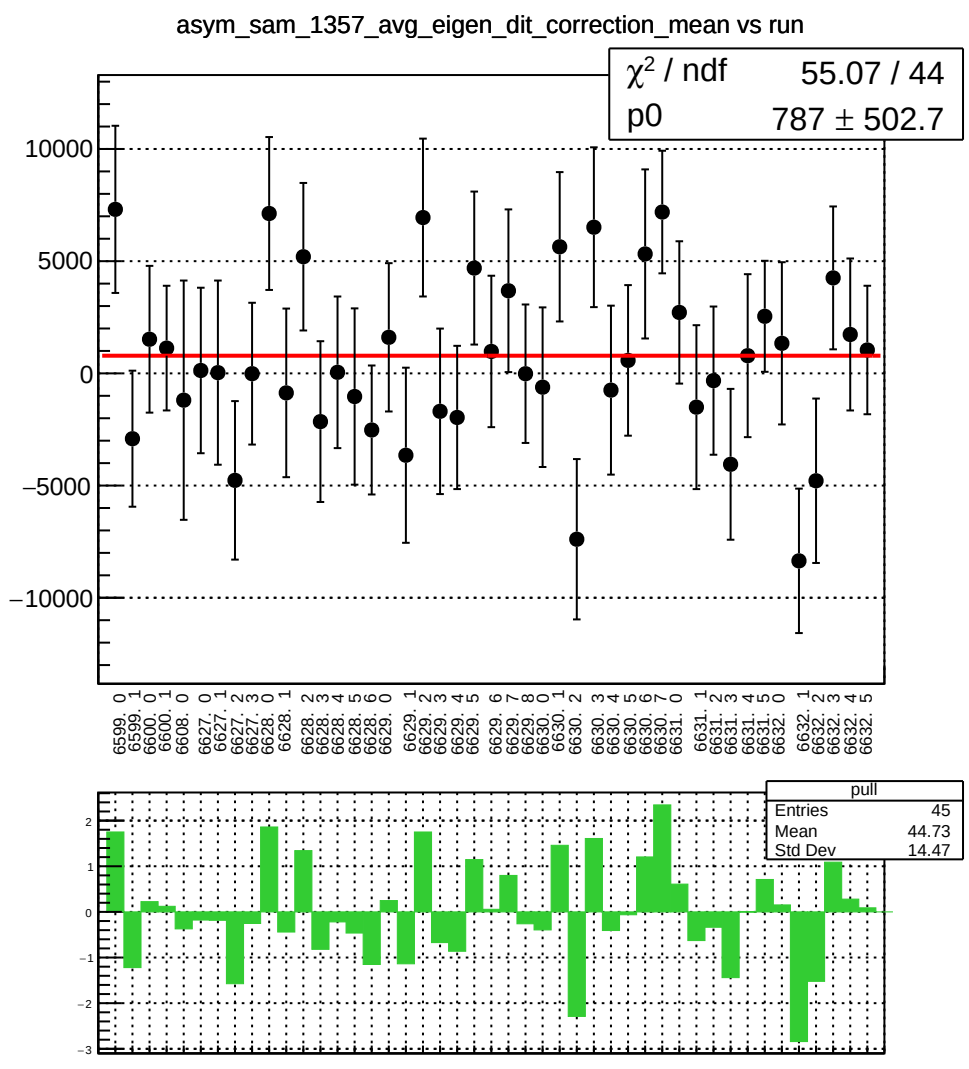
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 55.07 / 44
p0 787 ± 502.7
10000
5000
0
−5000
−10000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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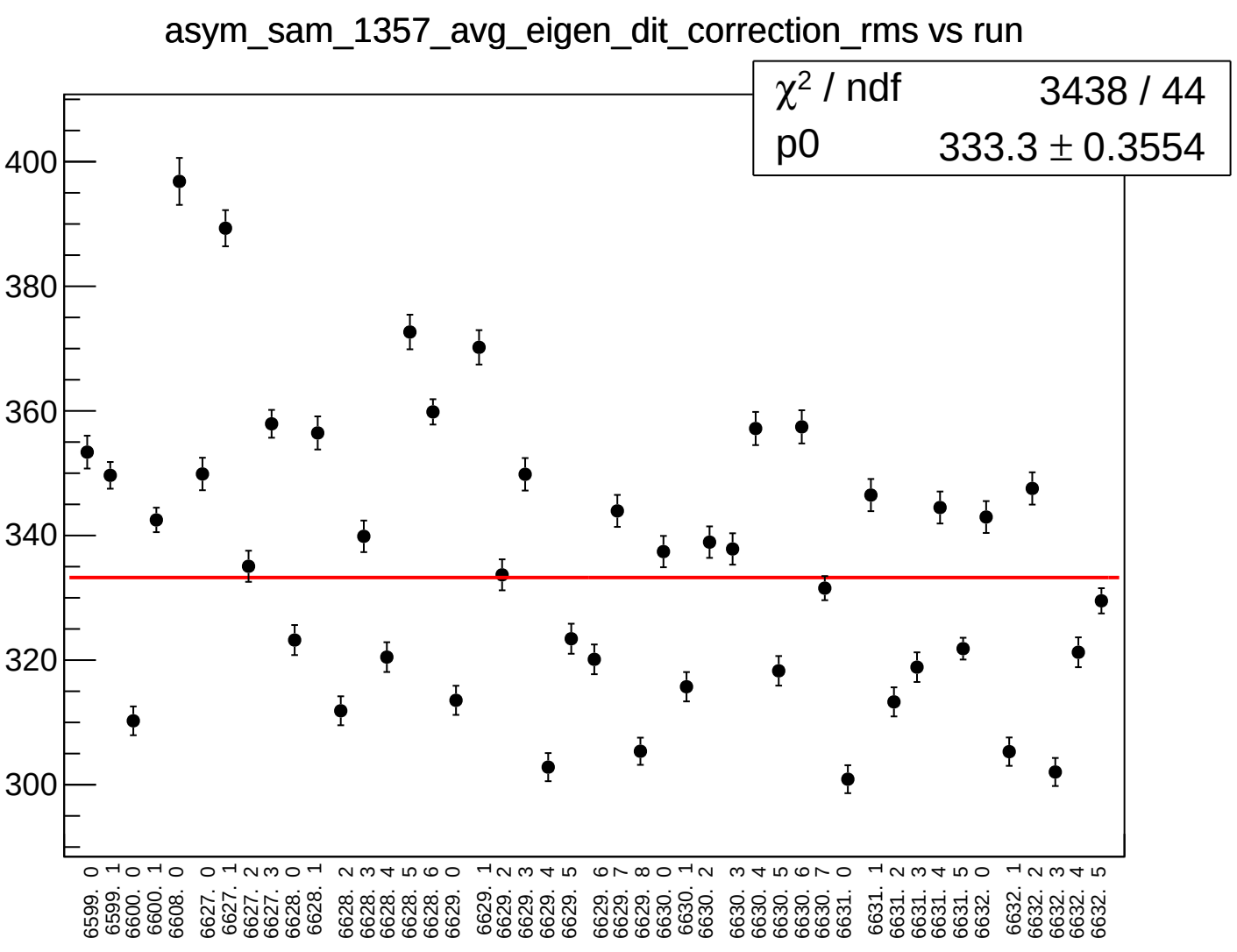
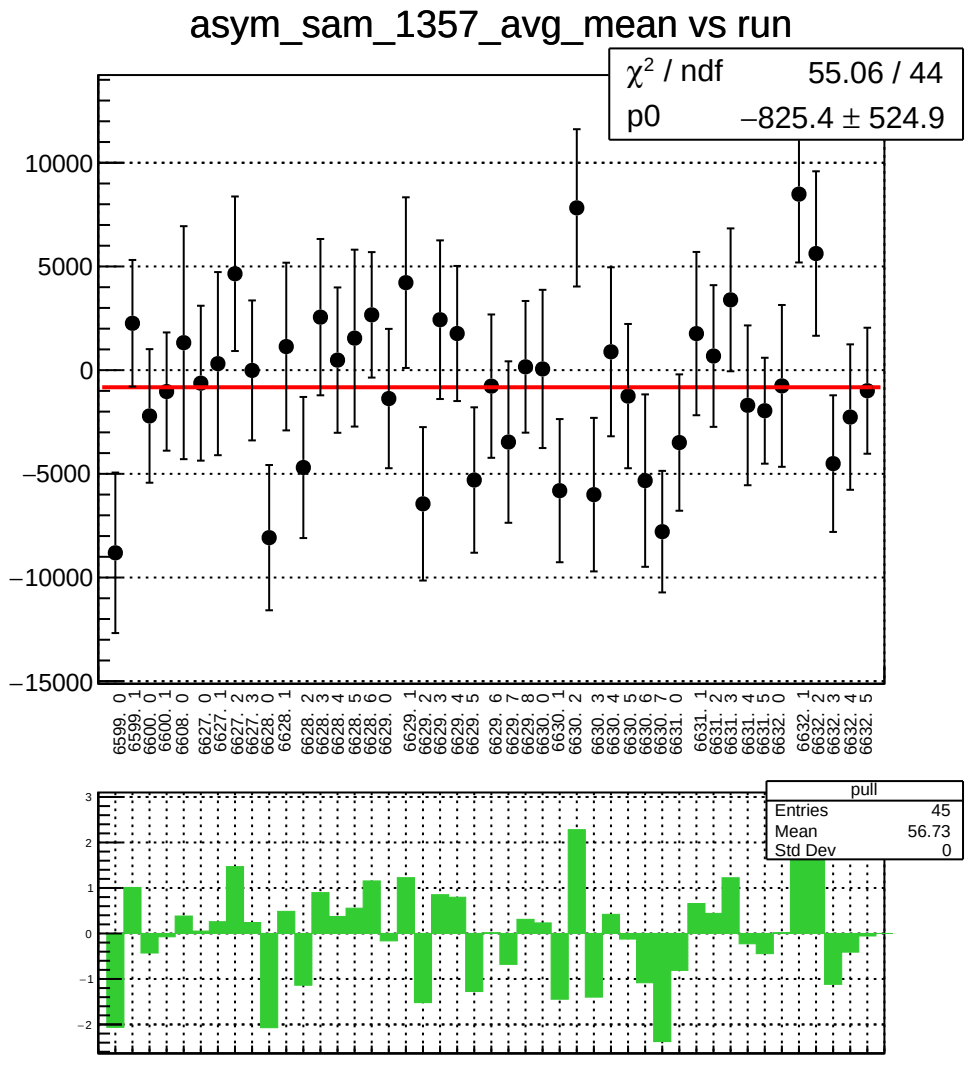
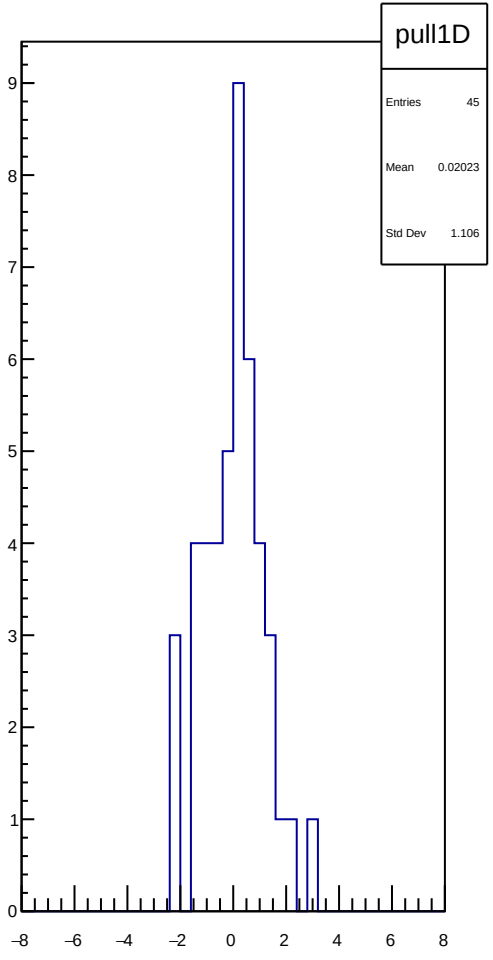
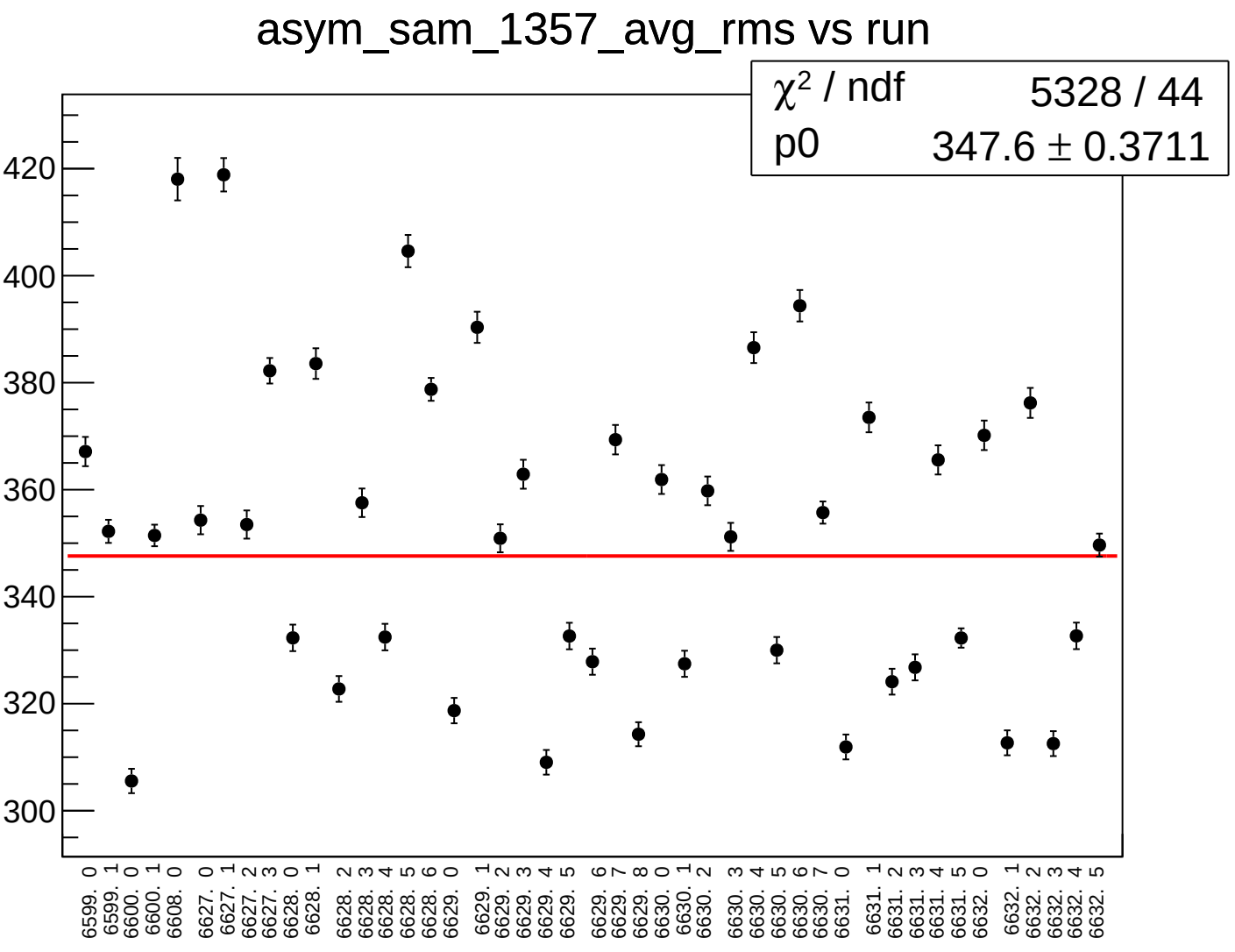
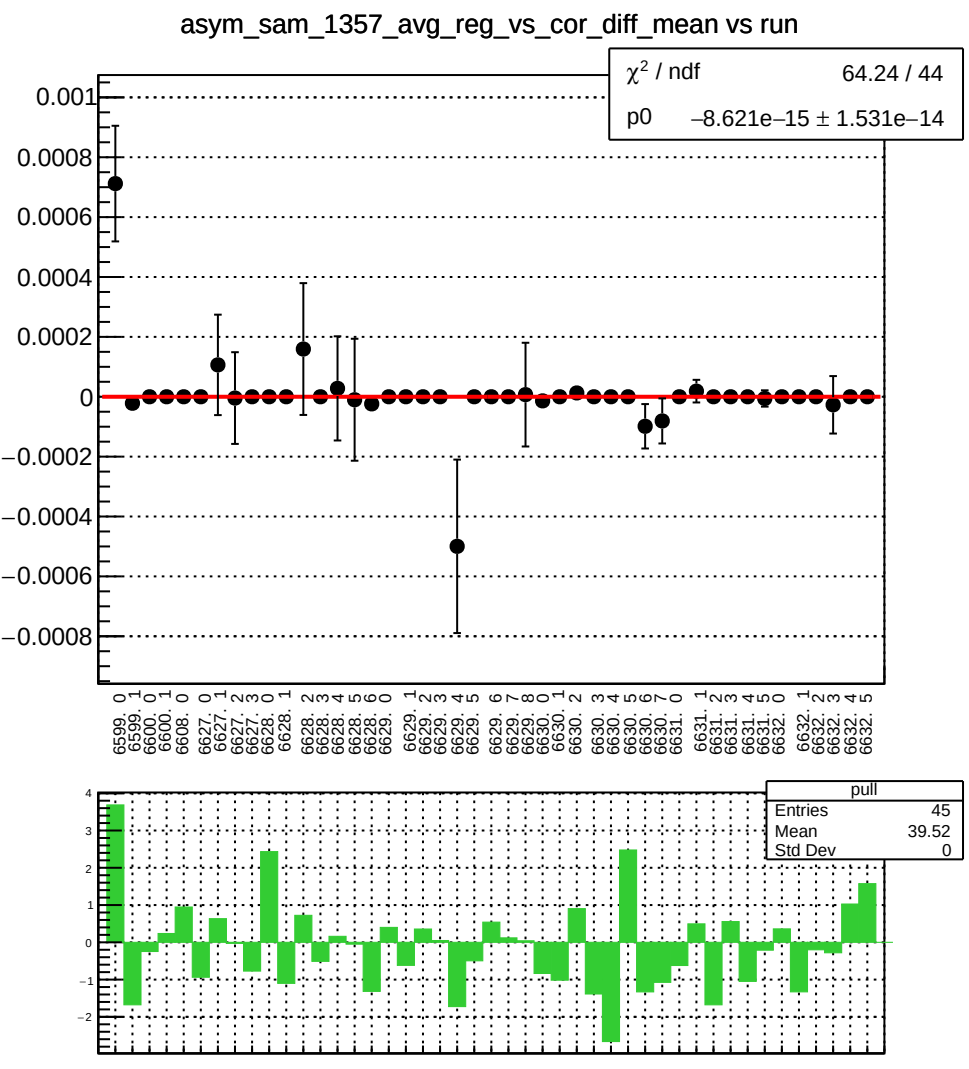
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 44.73
Std Dev 14.47
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.01962
Std Dev 1.106
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

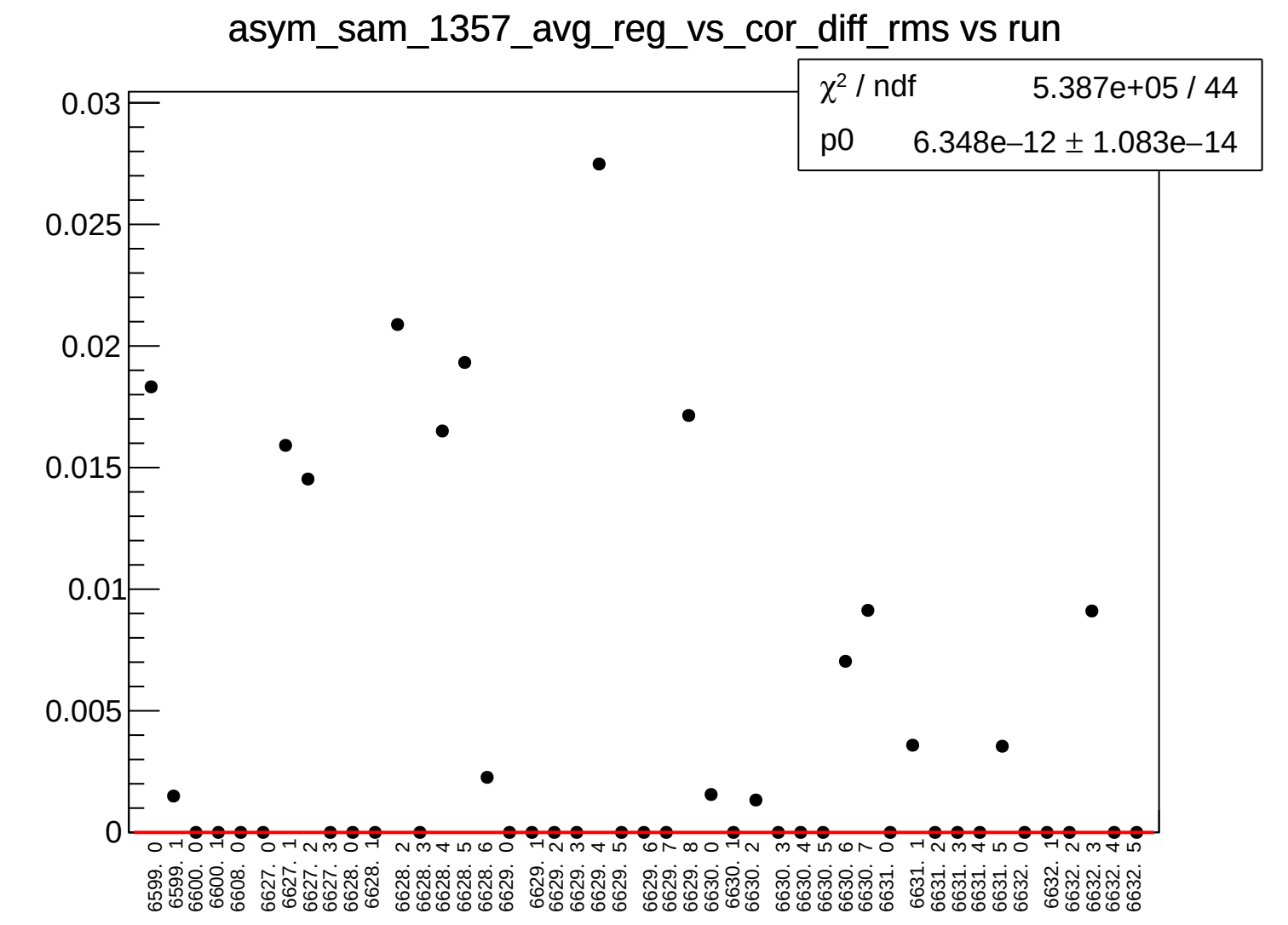

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 3438 / 44
p0 333.3 ± 0.3554
400
380
360
340
320
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

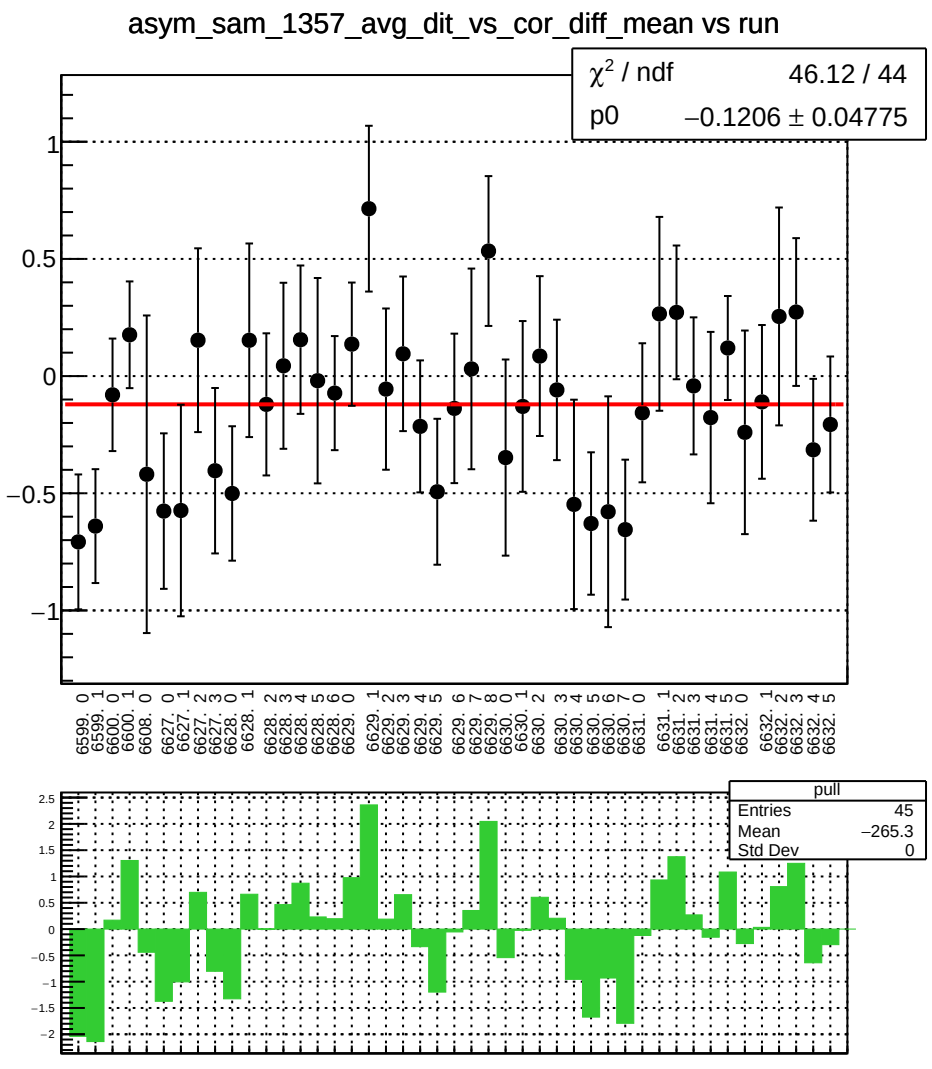

asym_sam_1357_avg_mean vs run
χ² / ndf 55.06 / 44
p0 −825.4 ± 524.9
10000
5000
0
−5000
−10000
−15000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 56.73
Std Dev 0
3
2
1
0
−1
−2

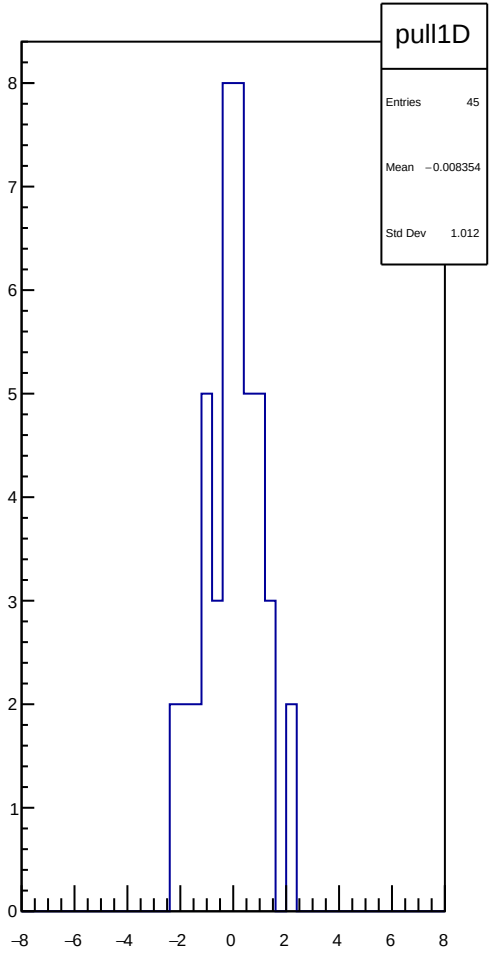

pull1D
Entries 45
Mean 0.02023
Std Dev 1.106
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

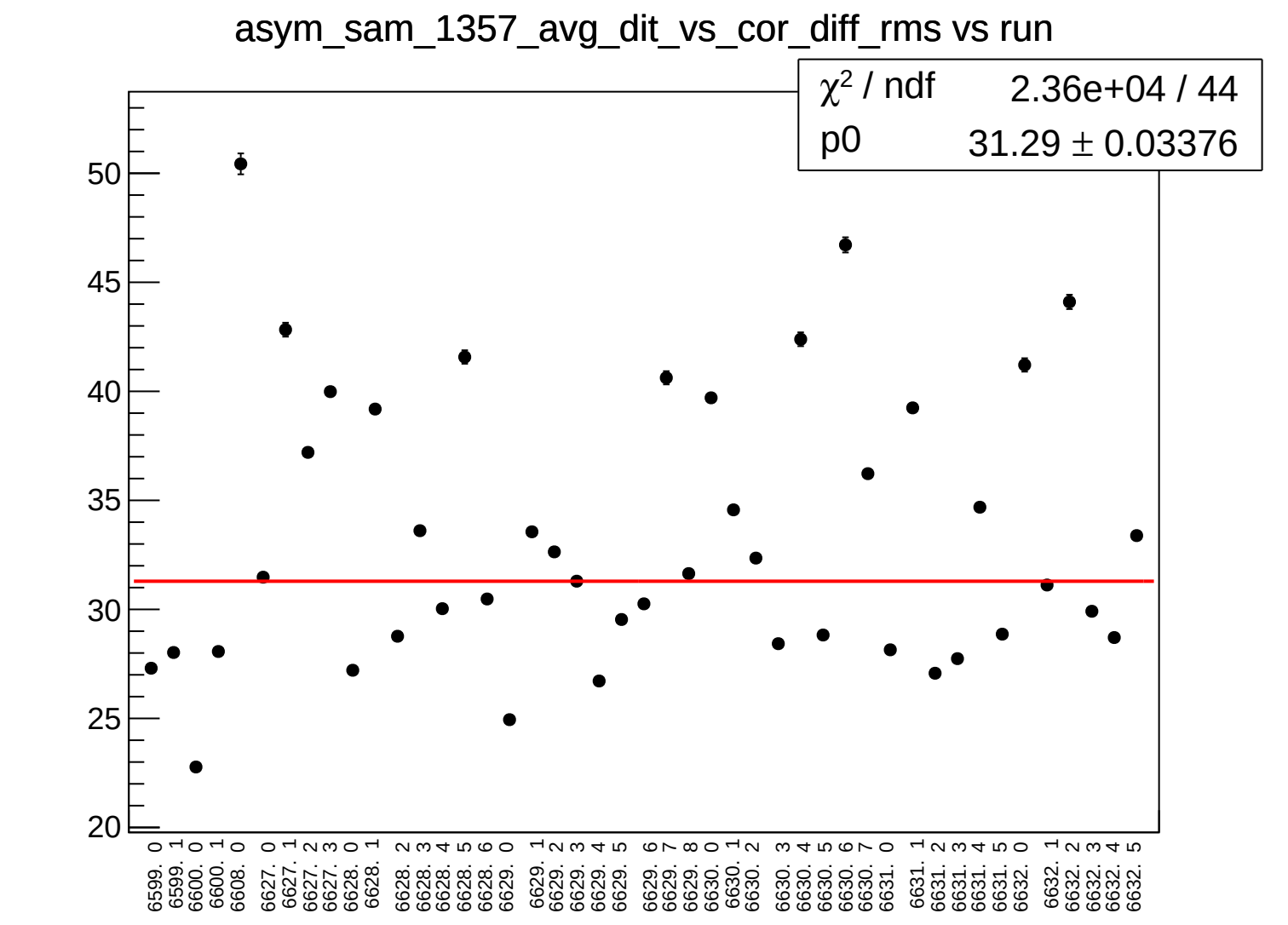

asym_sam_1357_avg_rms vs run
χ² / ndf 5328 / 44
p0 347.6 ± 0.3711
420
400
380
360
340
320
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

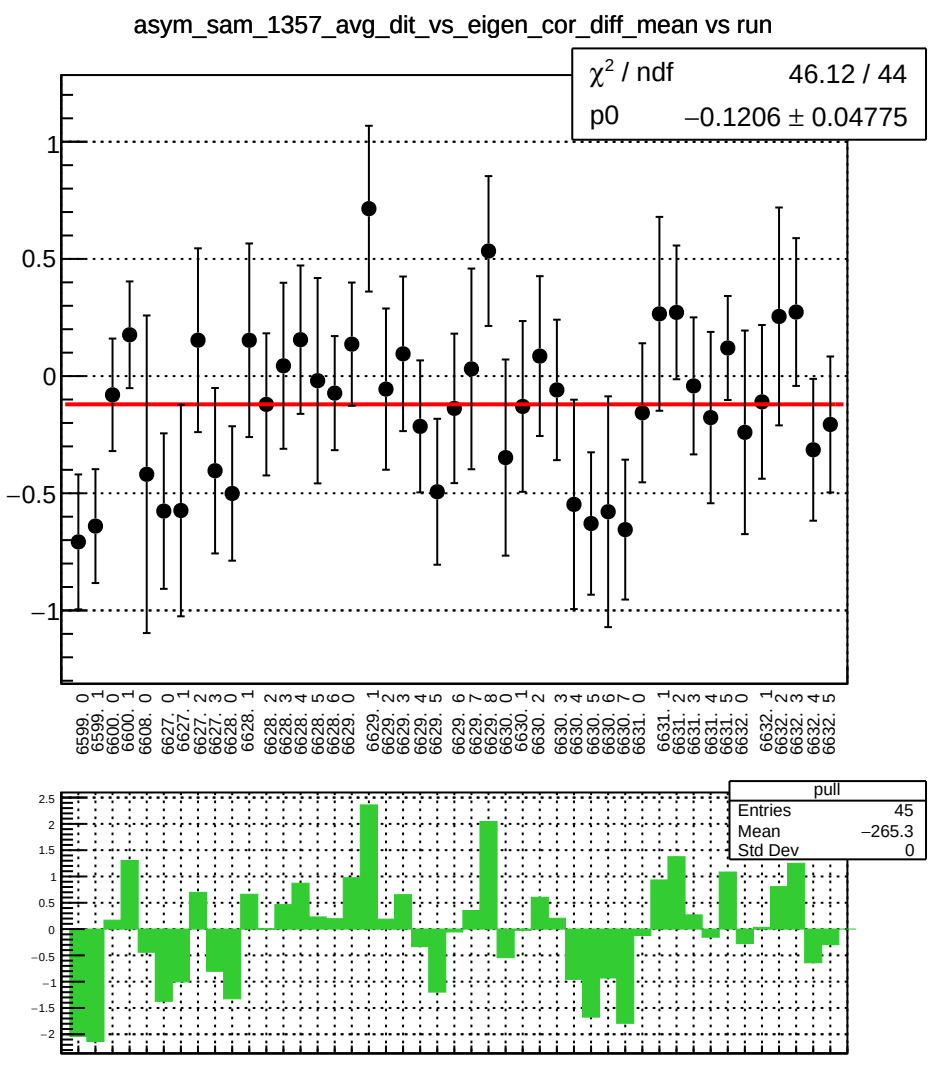

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 64.24 / 44
p0 −8.621e−15 ± 1.531e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 39.52
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.1205
Std Dev 1.189
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

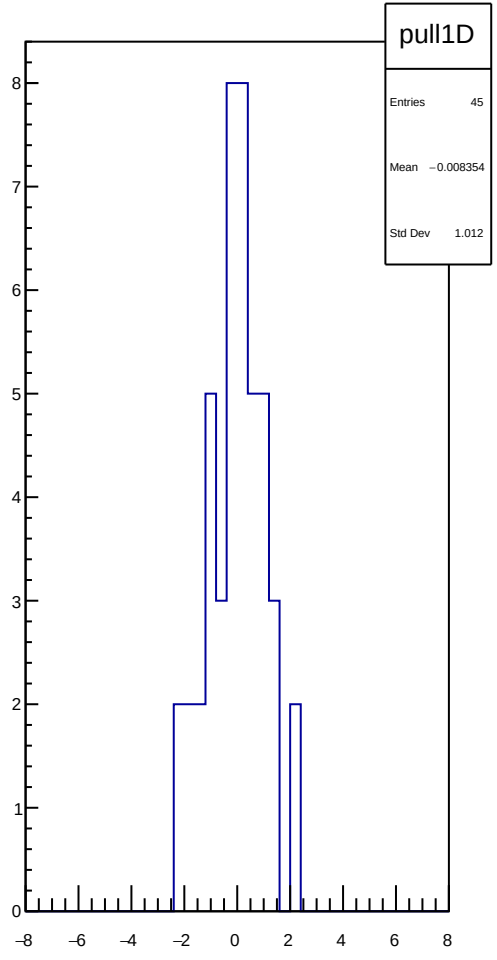

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.387e+05 / 44
p0 6.348e−12 ± 1.083e−14
0.03
0.025
0.02
0.015
0.01
0.005
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

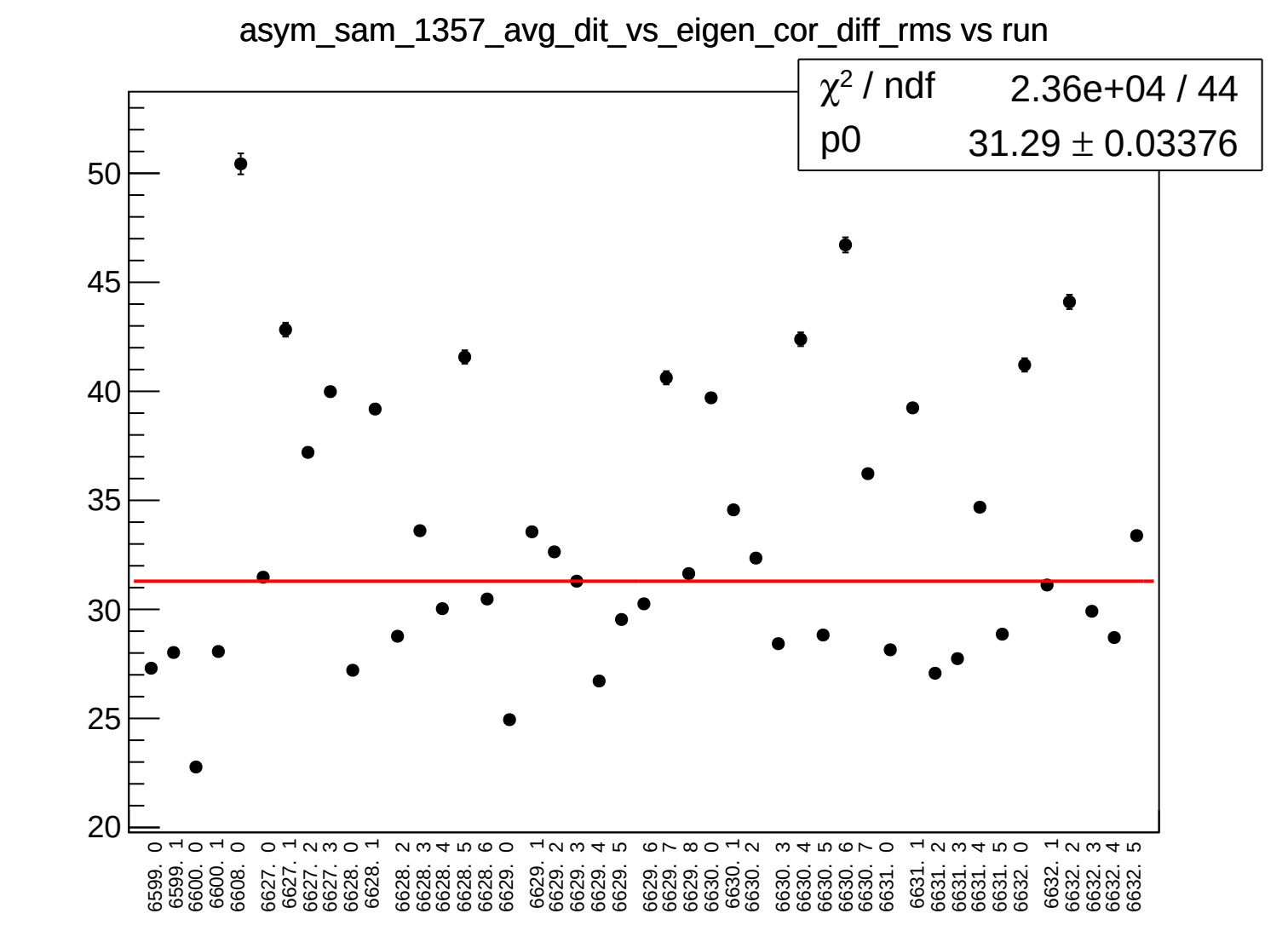

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 46.12 / 44
p0 −0.1206 ± 0.04775
pull
Entries 45
Mean −265.3
Std Dev 0

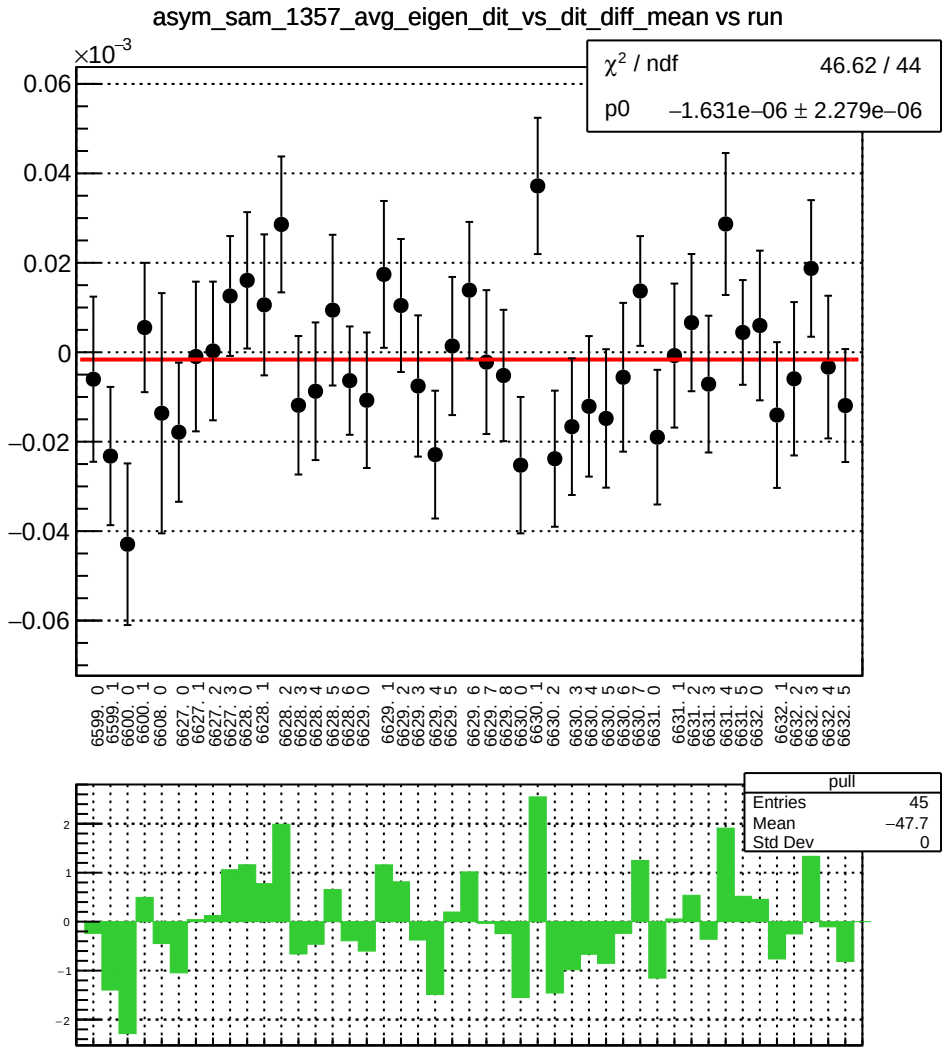

pull1D
Entries 45
Mean −0.008354
Std Dev 1.012

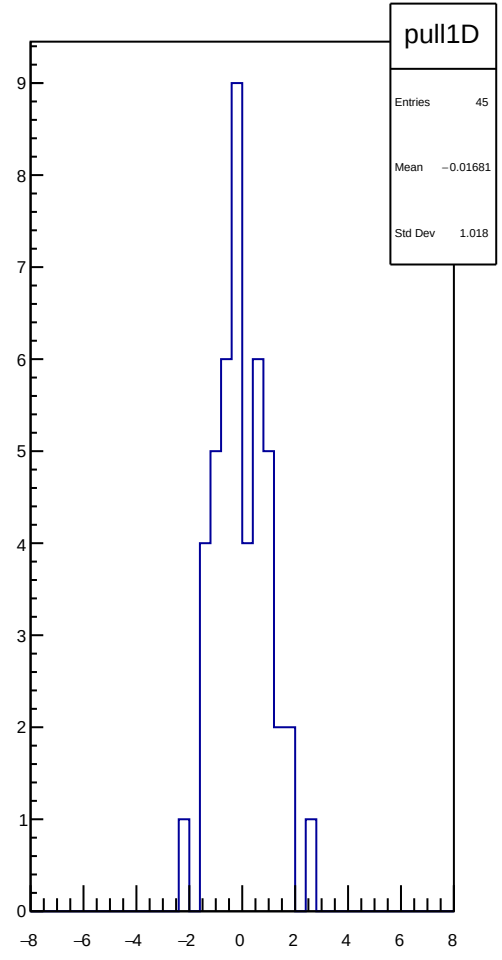

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.36e+04 / 44
p0 31.29 ± 0.03376
50
45
40
35
30
25
20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

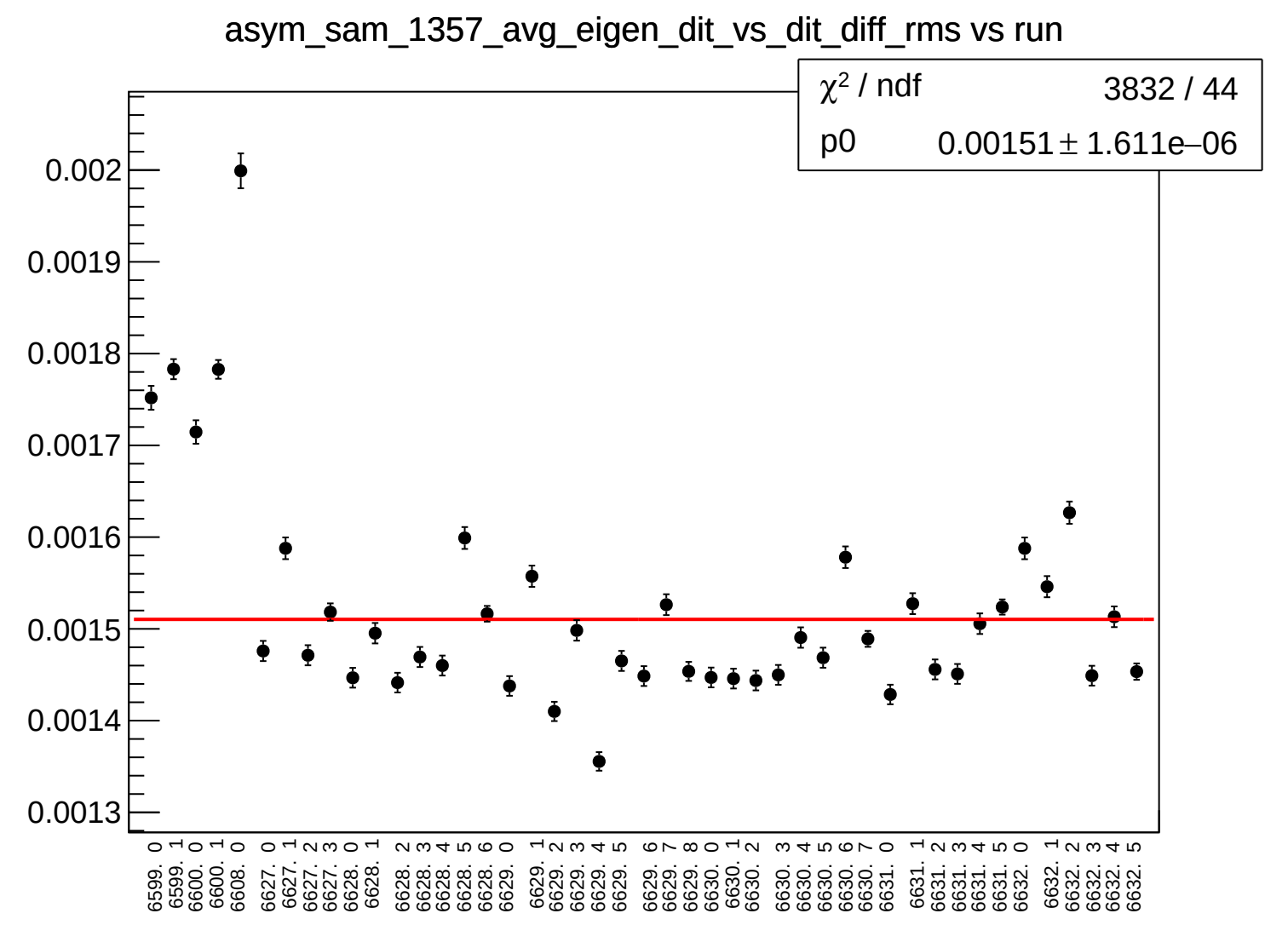

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.12 / 44
p0 −0.1206 ± 0.04775
pull
Entries 45
Mean −265.3
Std Dev 0

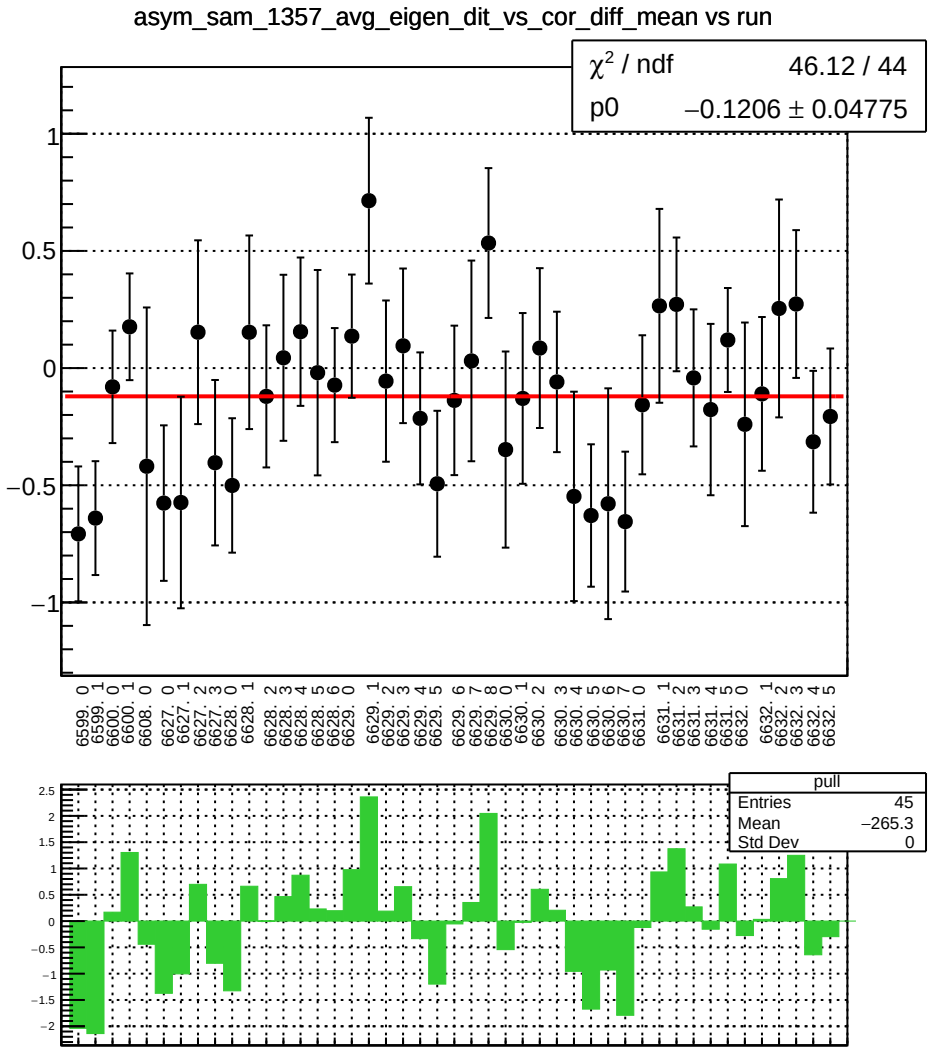

pull1D
Entries 45
Mean −0.008354
Std Dev 1.012

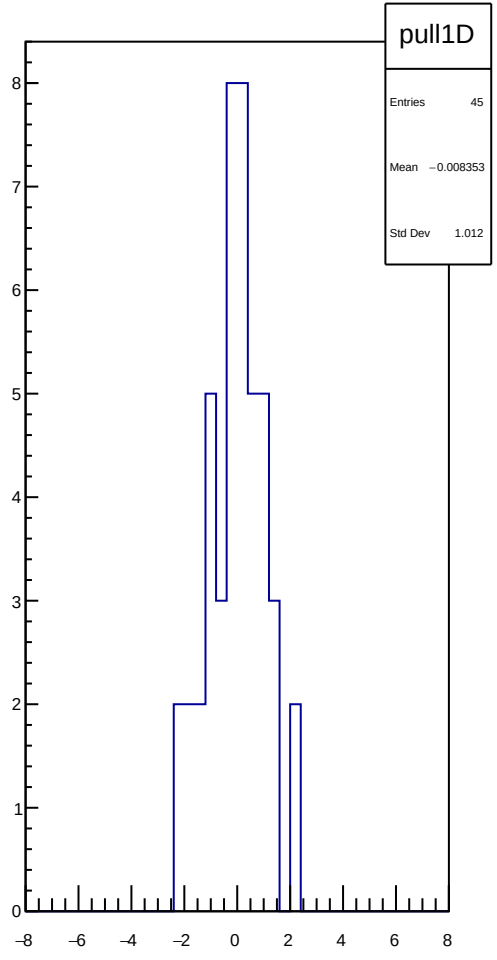

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.36e+04 / 44
p0 31.29 ± 0.03376
50
45
40
35
30
25
20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

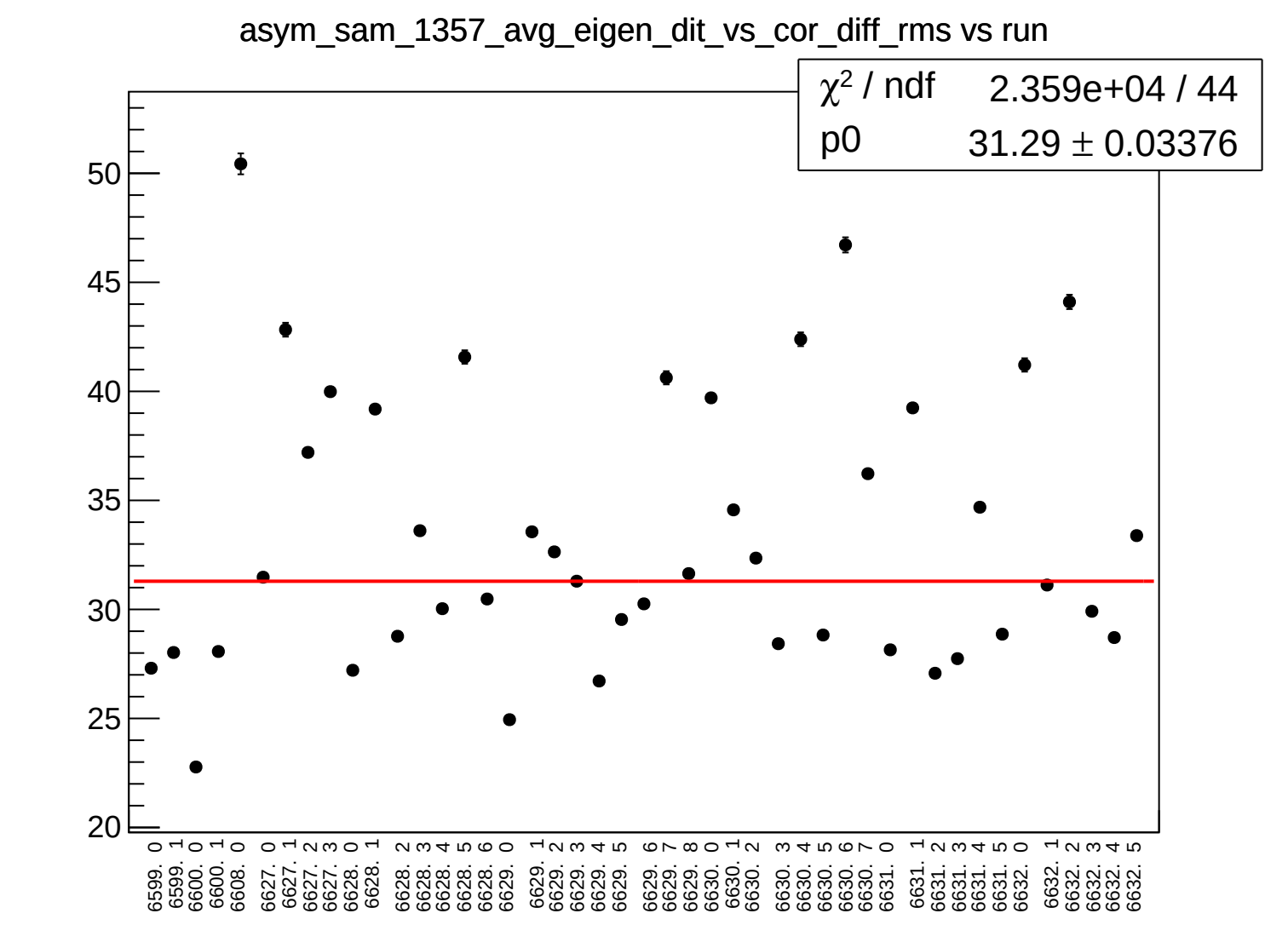

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 46.62 / 44
p0 −1.631e−06 ± 2.279e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −47.7
Std Dev 0
2
1
0
−1
−2

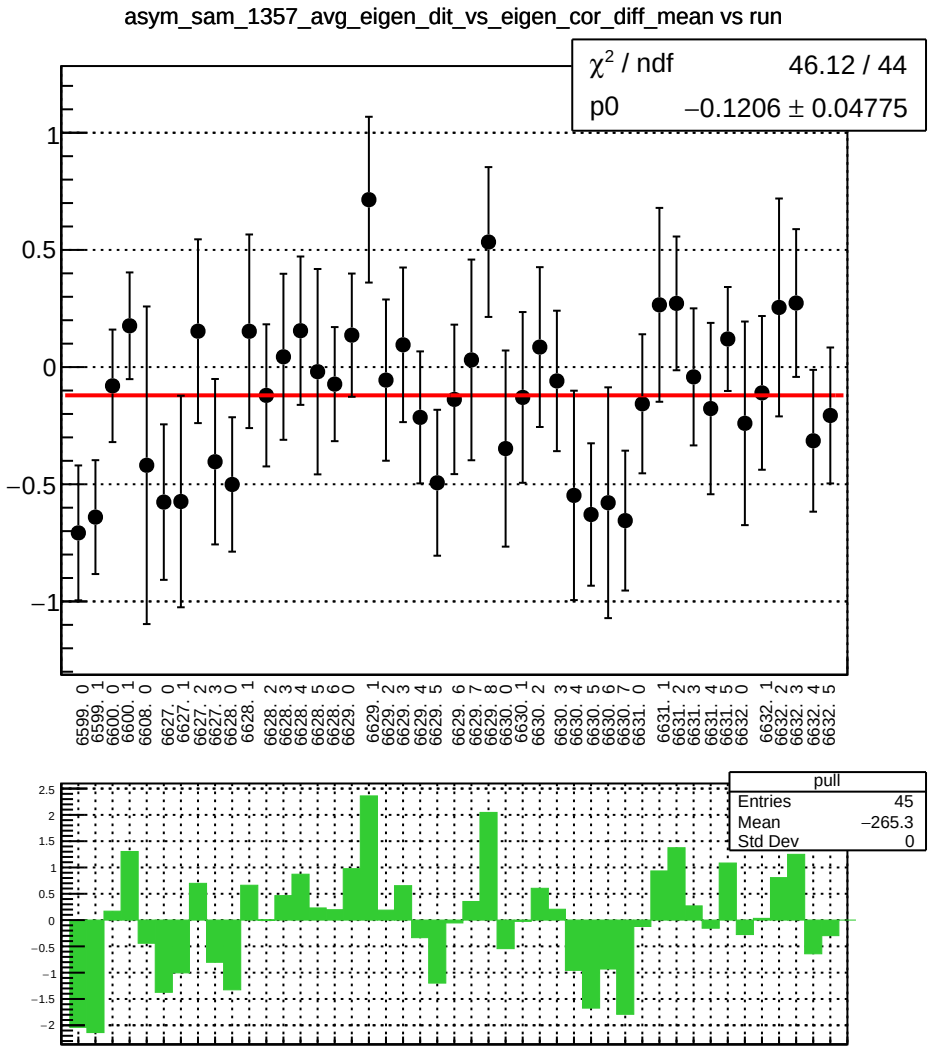

pull1D
Entries 45
Mean −0.01681
Std Dev 1.018
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

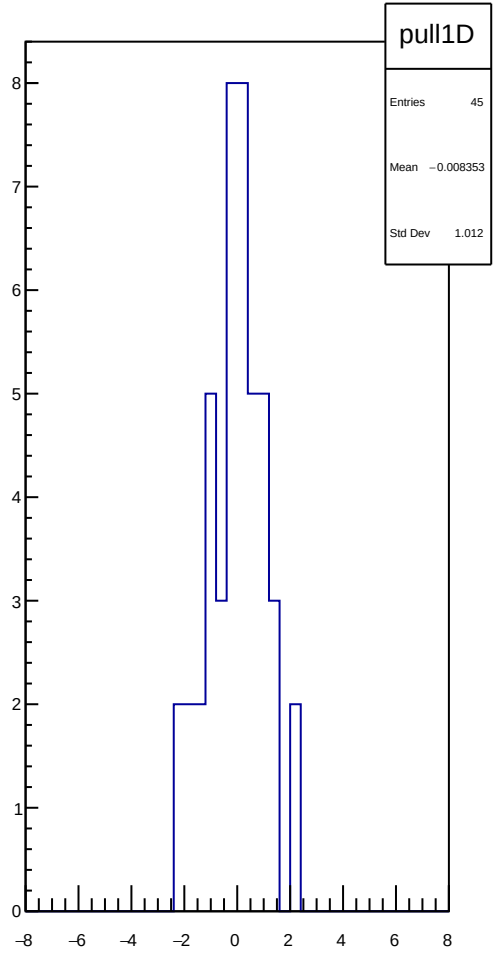

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3832 / 44
p0 0.00151 ± 1.611e–06
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

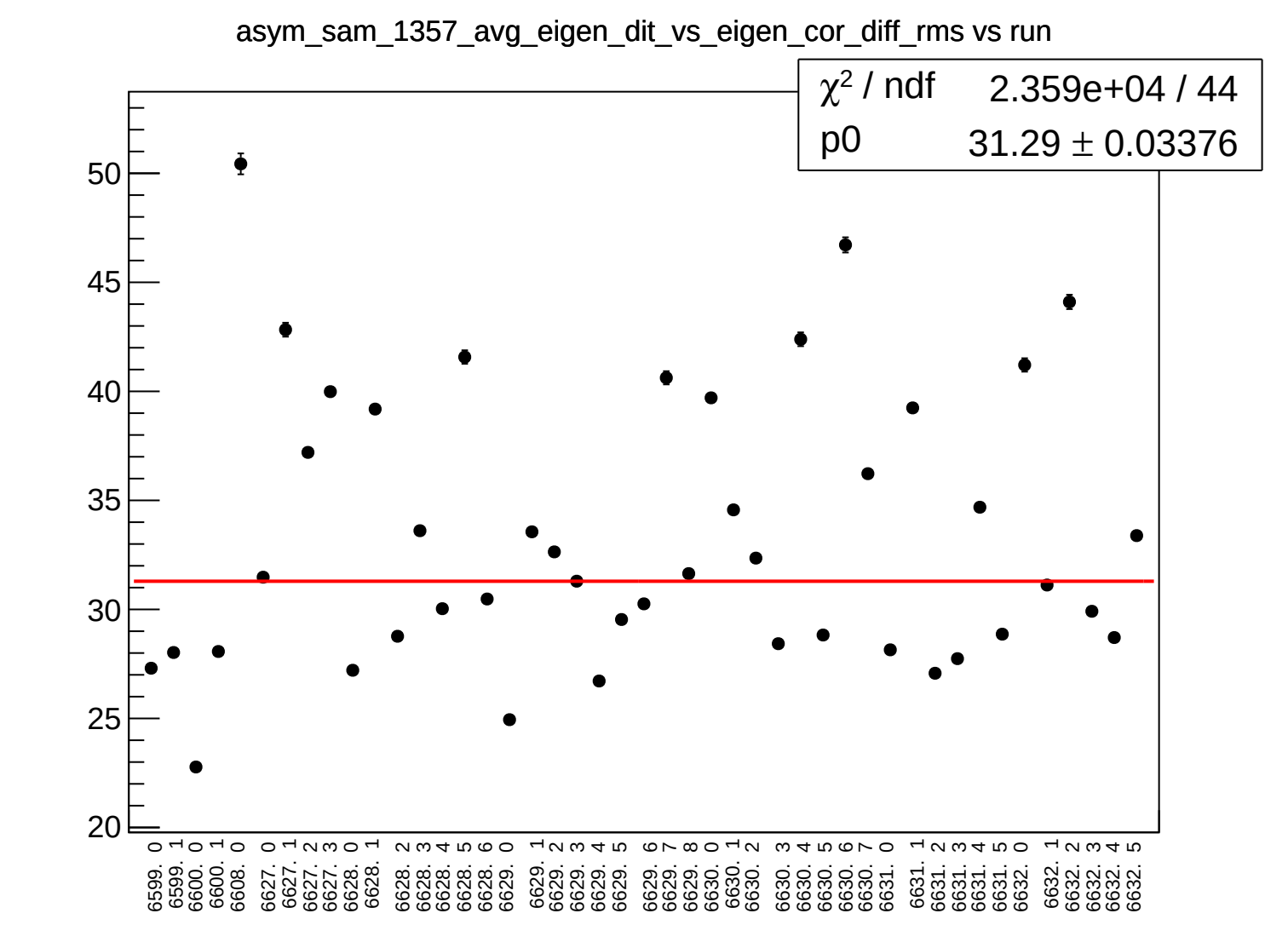

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 46.12 / 44
p0 −0.1206 ± 0.04775
pull
Entries 45
Mean −265.3
Std Dev 0

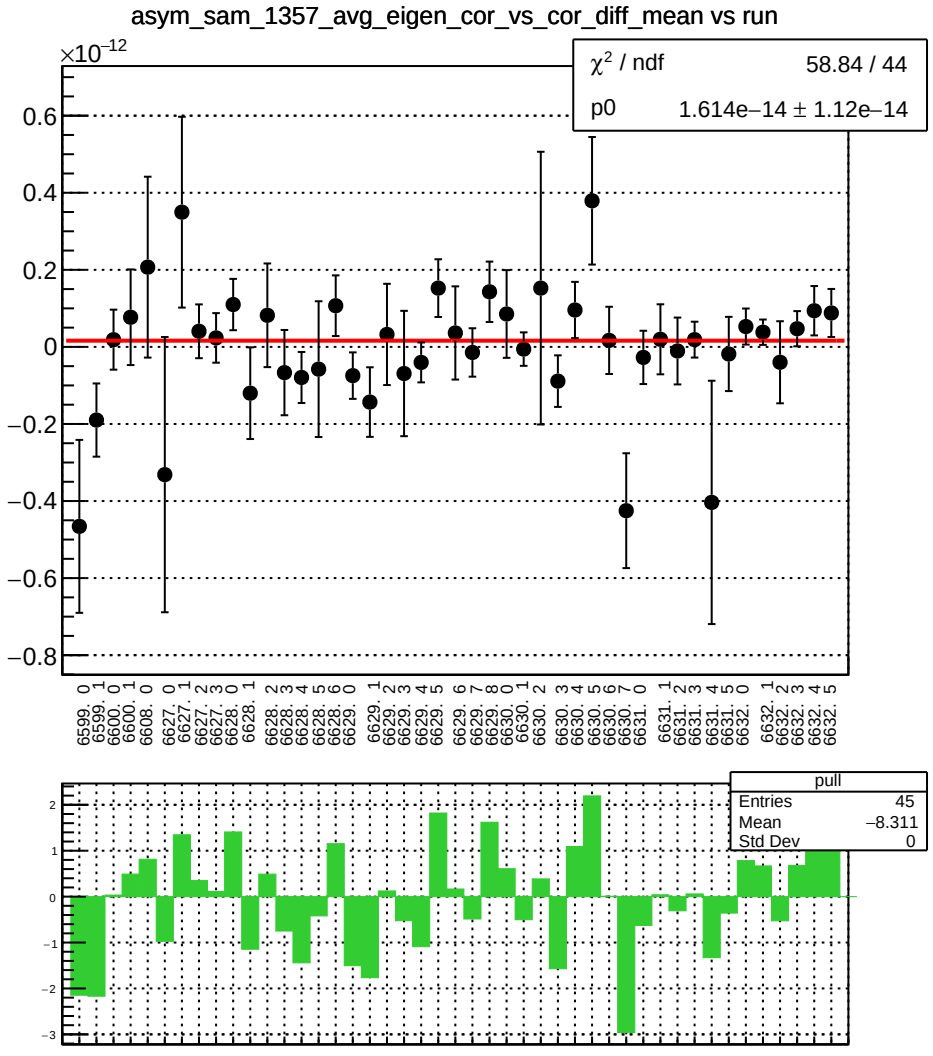

pull1D
Entries 45
Mean −0.008353
Std Dev 1.012

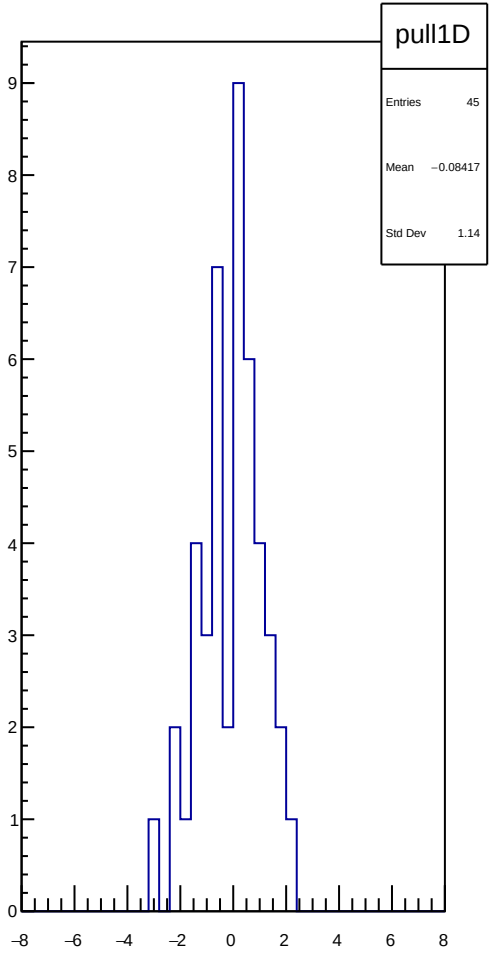

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.359e+04 / 44
p0 31.29 ± 0.03376
50
45
40
35
30
25
20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

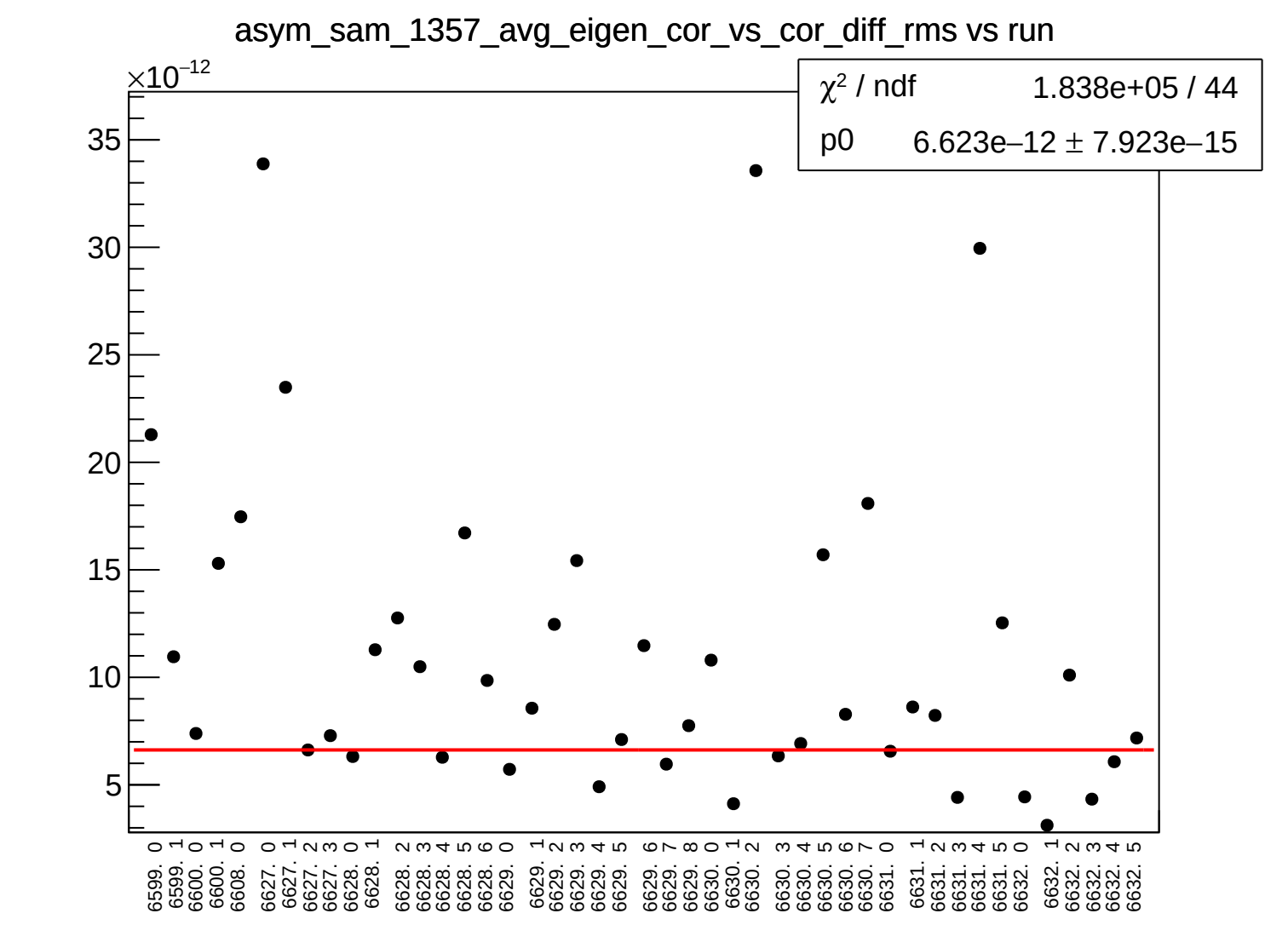

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.12 / 44
p0 −0.1206 ± 0.04775
pull
Entries 45
Mean −265.3
Std Dev 0

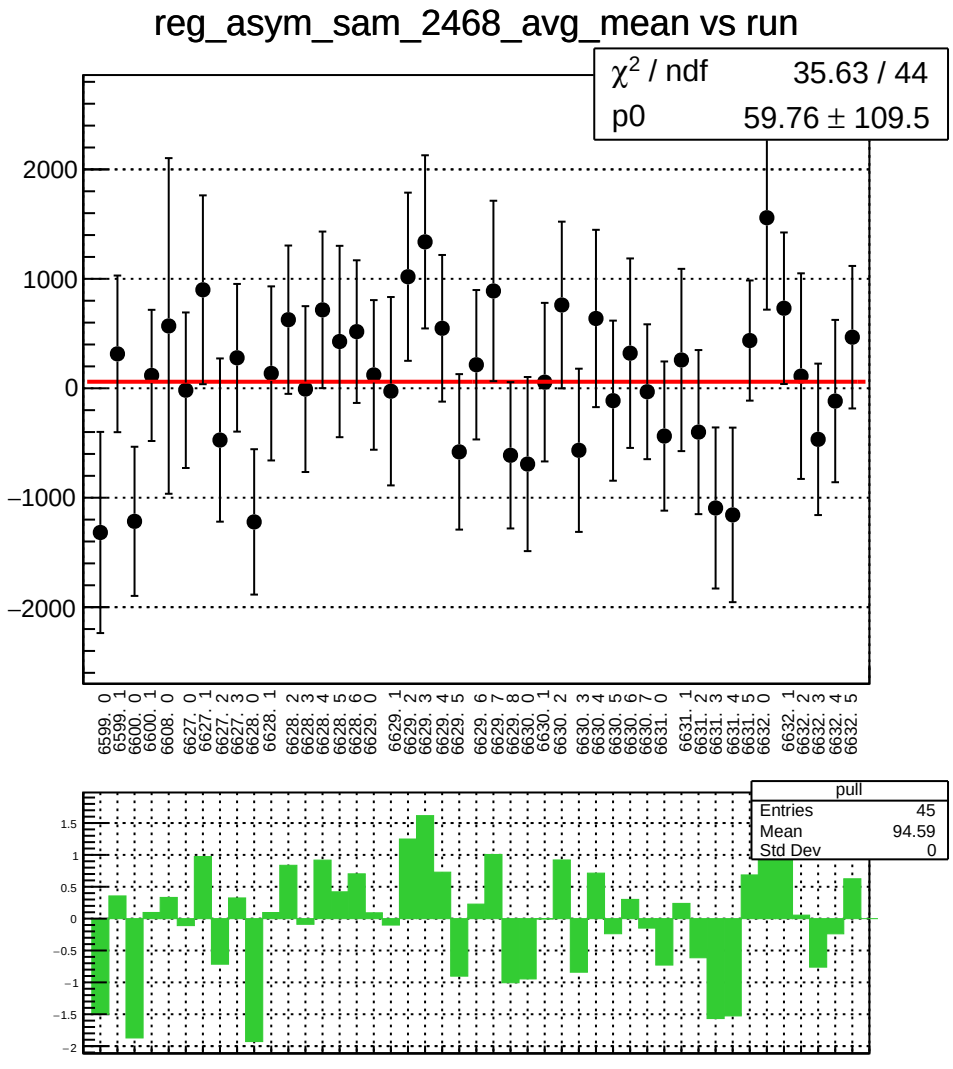

pull1D
Entries 45
Mean −0.008353
Std Dev 1.012

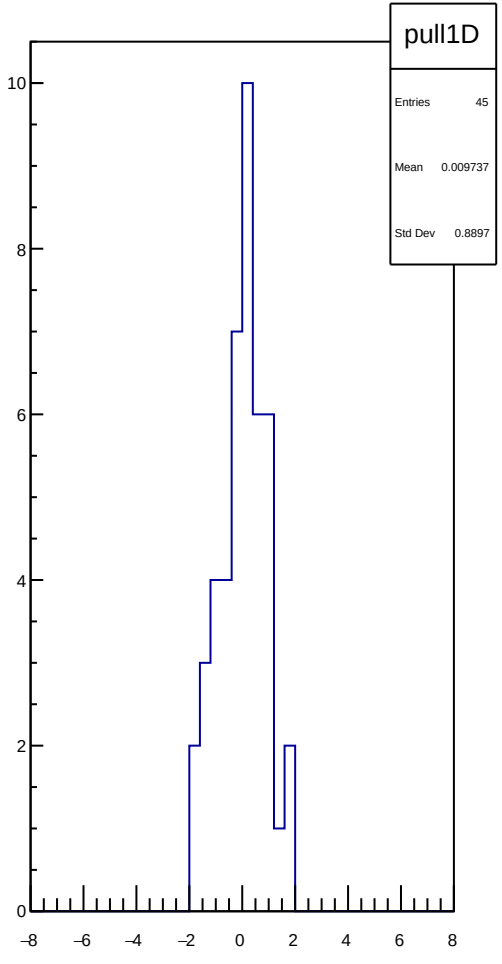

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.359e+04 / 44
p0 31.29 ± 0.03376
50
45
40
35
30
25
20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

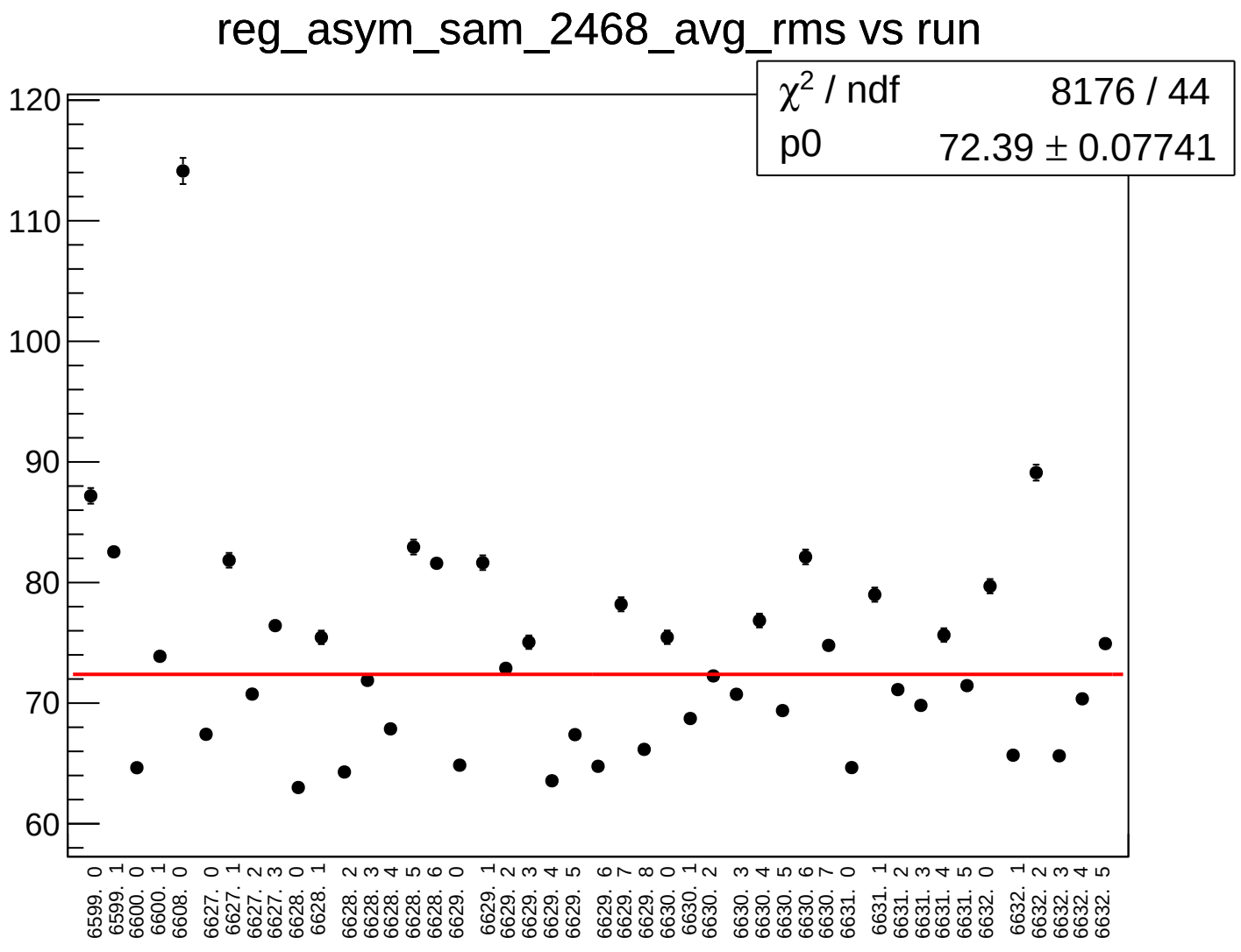

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 58.84 / 44
p0 1.614e−14 ± 1.12e−14
pull
Entries 45
Mean −8.311
Std Dev 0

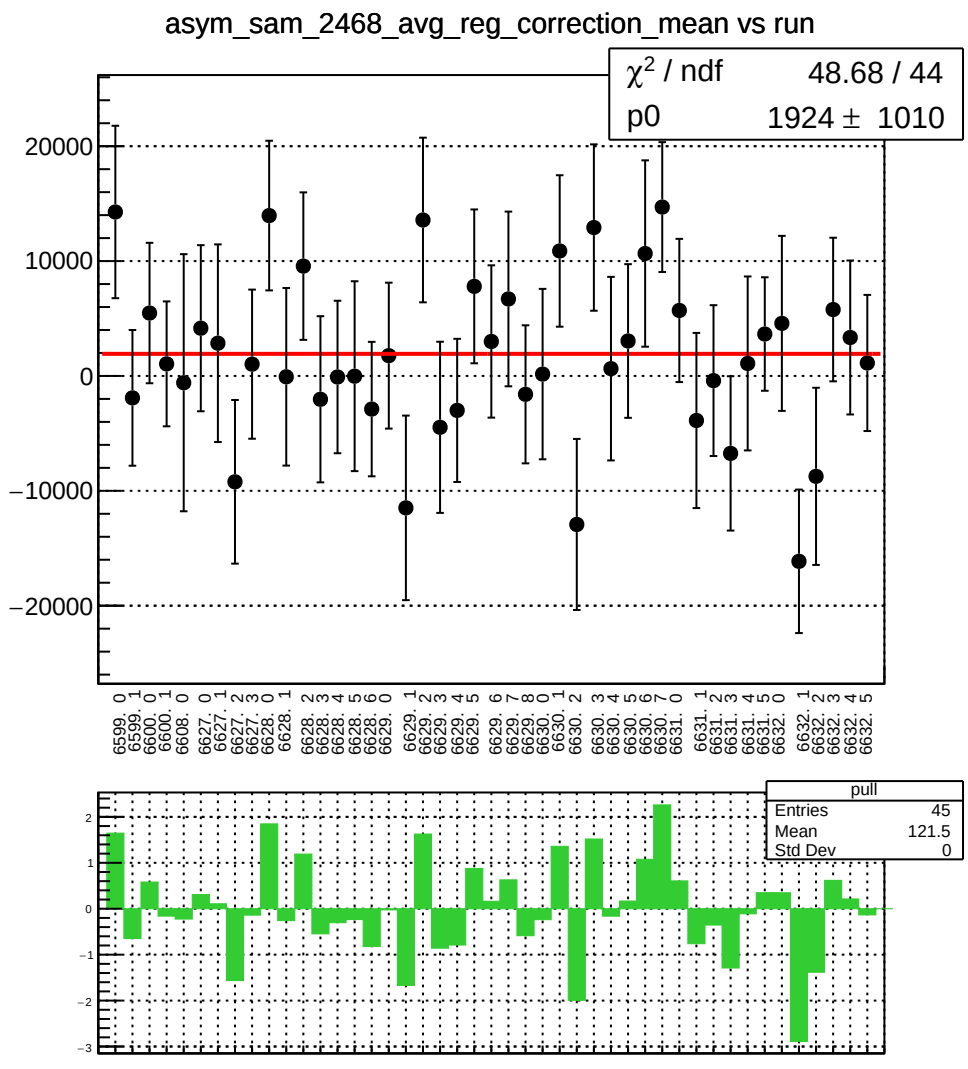

pull1D
Entries 45
Mean −0.08417
Std Dev 1.14

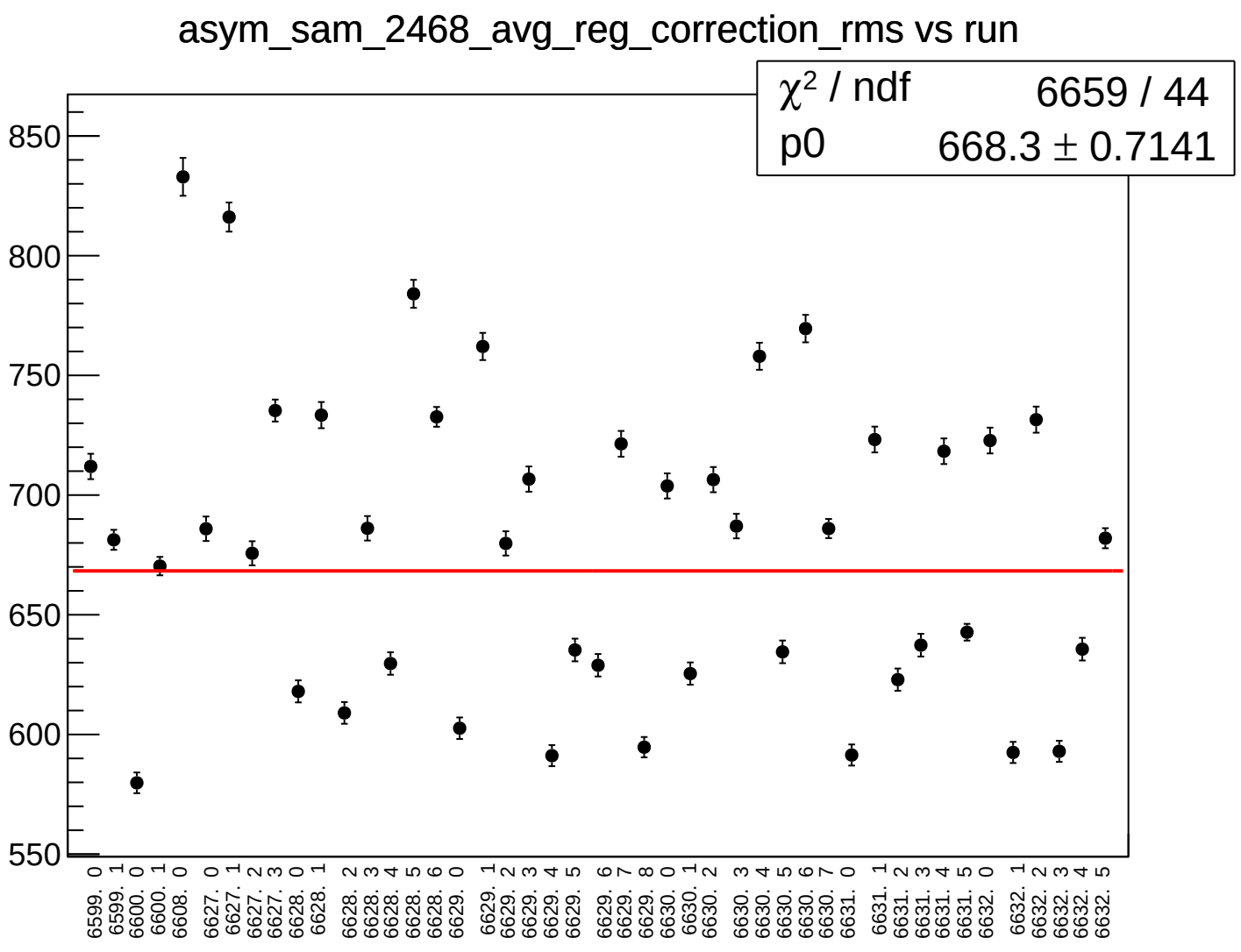

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.838e+05 / 44
p0 6.623e−12 ± 7.923e−15
35
30
25
20
15
10
5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

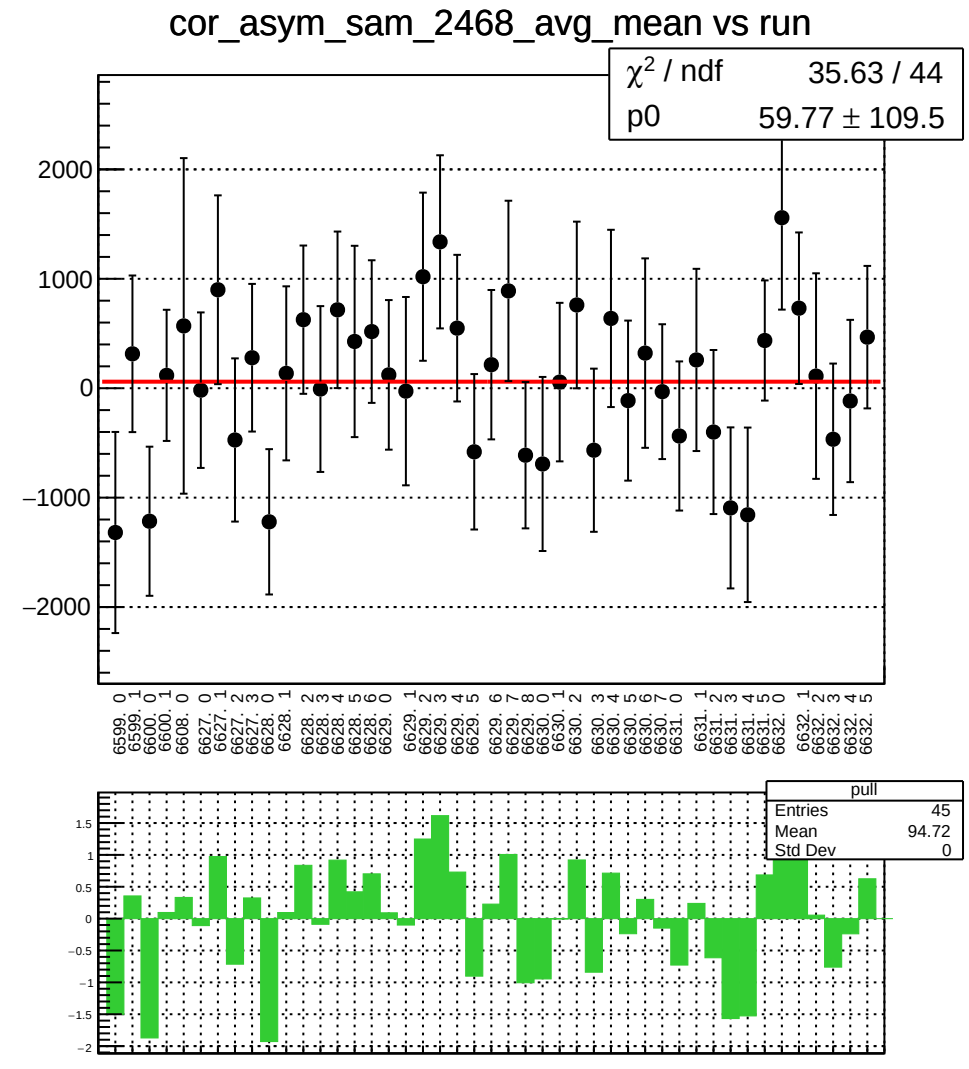

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 35.63 / 44
p0 59.76 ± 109.5
2000
1000
0
−1000
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 94.59
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

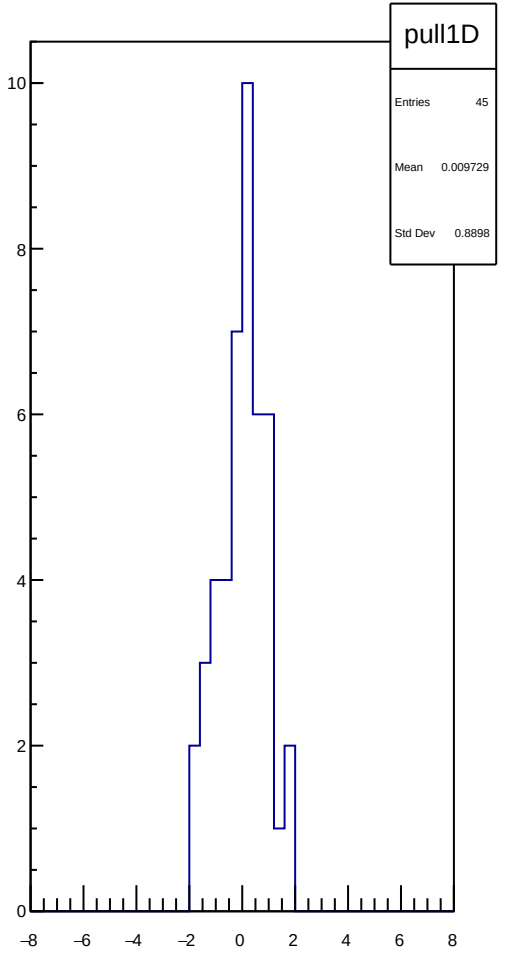

pull1D
Entries 45
Mean 0.009737
Std Dev 0.8897
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

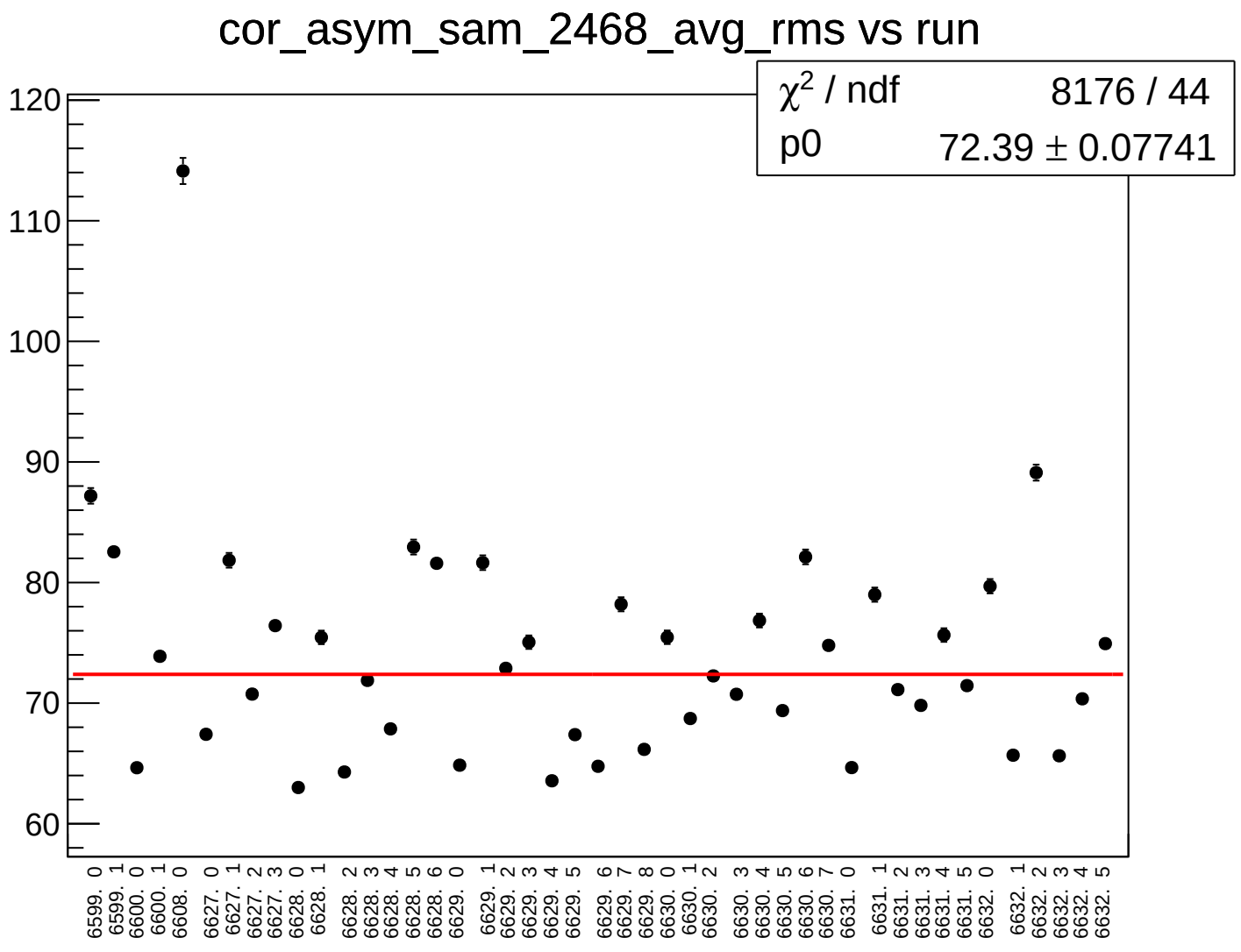

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 8176 / 44
p0 72.39 ± 0.07741
120
110
100
90
80
70
60
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 48.68 / 44
p0 1924 ± 1010
20000
10000
0
−10000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 121.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.01471
Std Dev 1.04
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 6659 / 44
p0 668.3 ± 0.7141
850
800
750
700
650
600
550
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_sam_2468_avg_mean vs run
χ² / ndf 35.63 / 44
p0 59.77 ± 109.5
2000
1000
0
−1000
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 94.72
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.009729
Std Dev 0.8898
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_2468_avg_rms vs run
χ² / ndf 8176 / 44
p0 72.39 ± 0.07741
120
110
100
90
80
70
60
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 4
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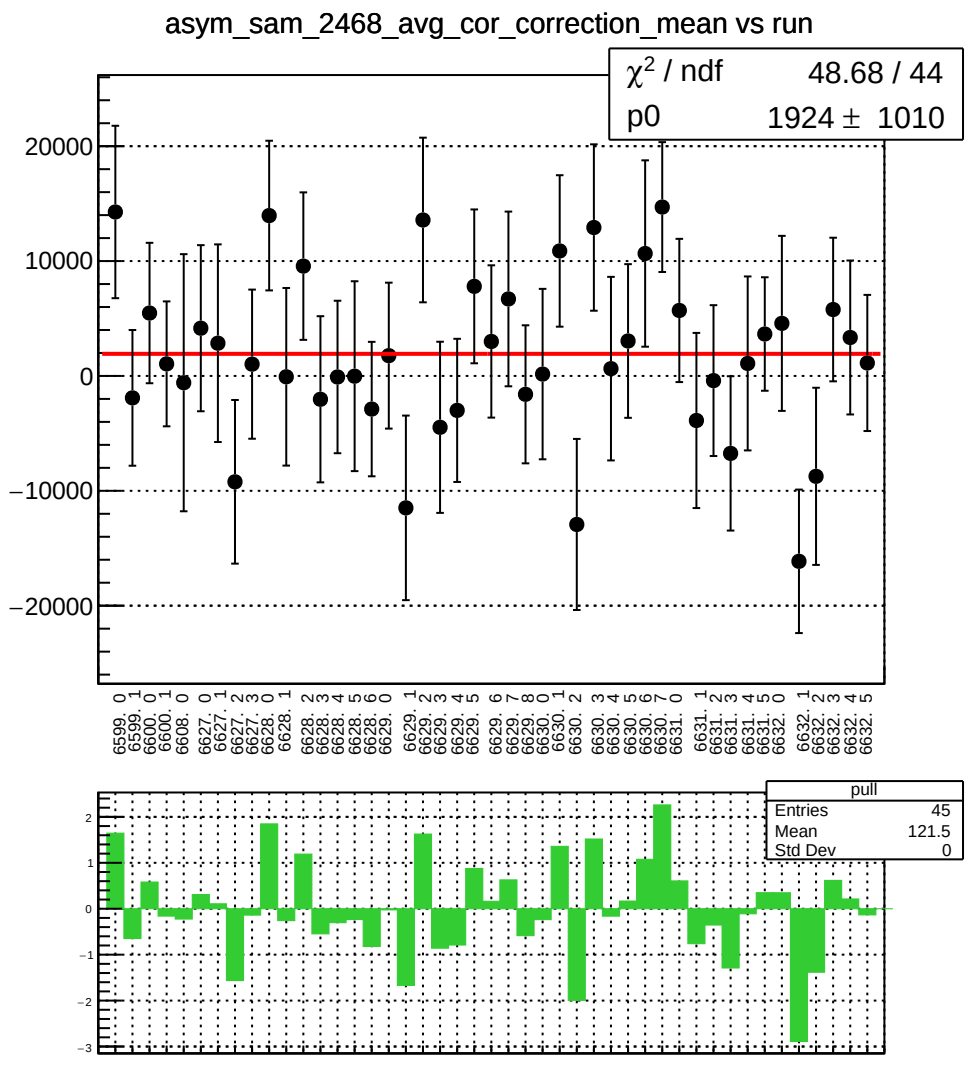
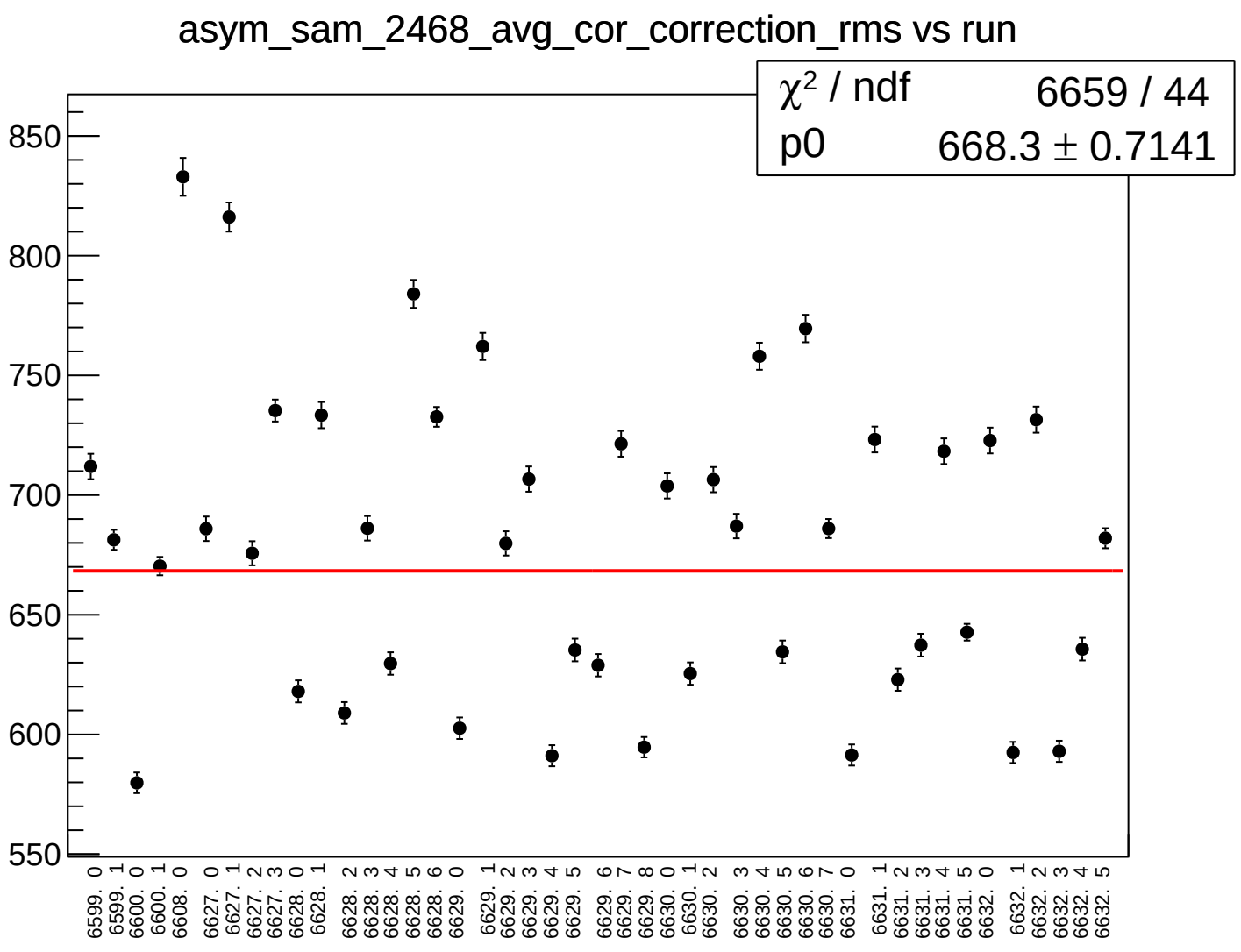
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 48.68 / 44
p0 1924 ± 1010
20000
10000
0
−10000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 121.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.01471
Std Dev 1.04
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 6659 / 44
p0 668.3 ± 0.7141
850
800
750
700
650
600
550
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
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6628. 6
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6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
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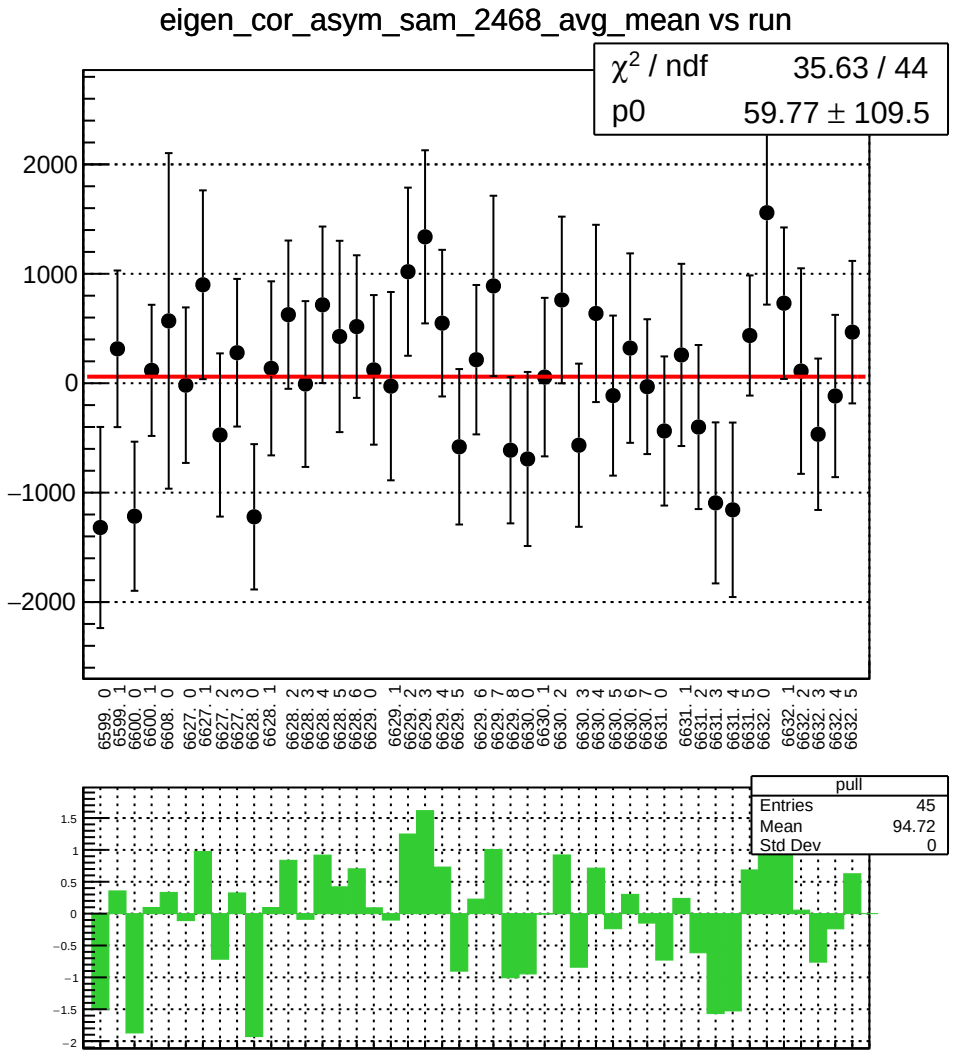
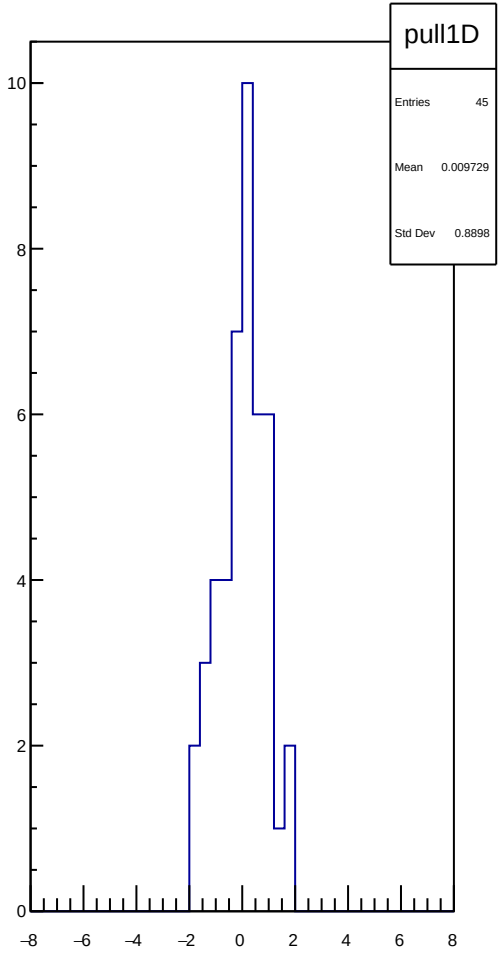
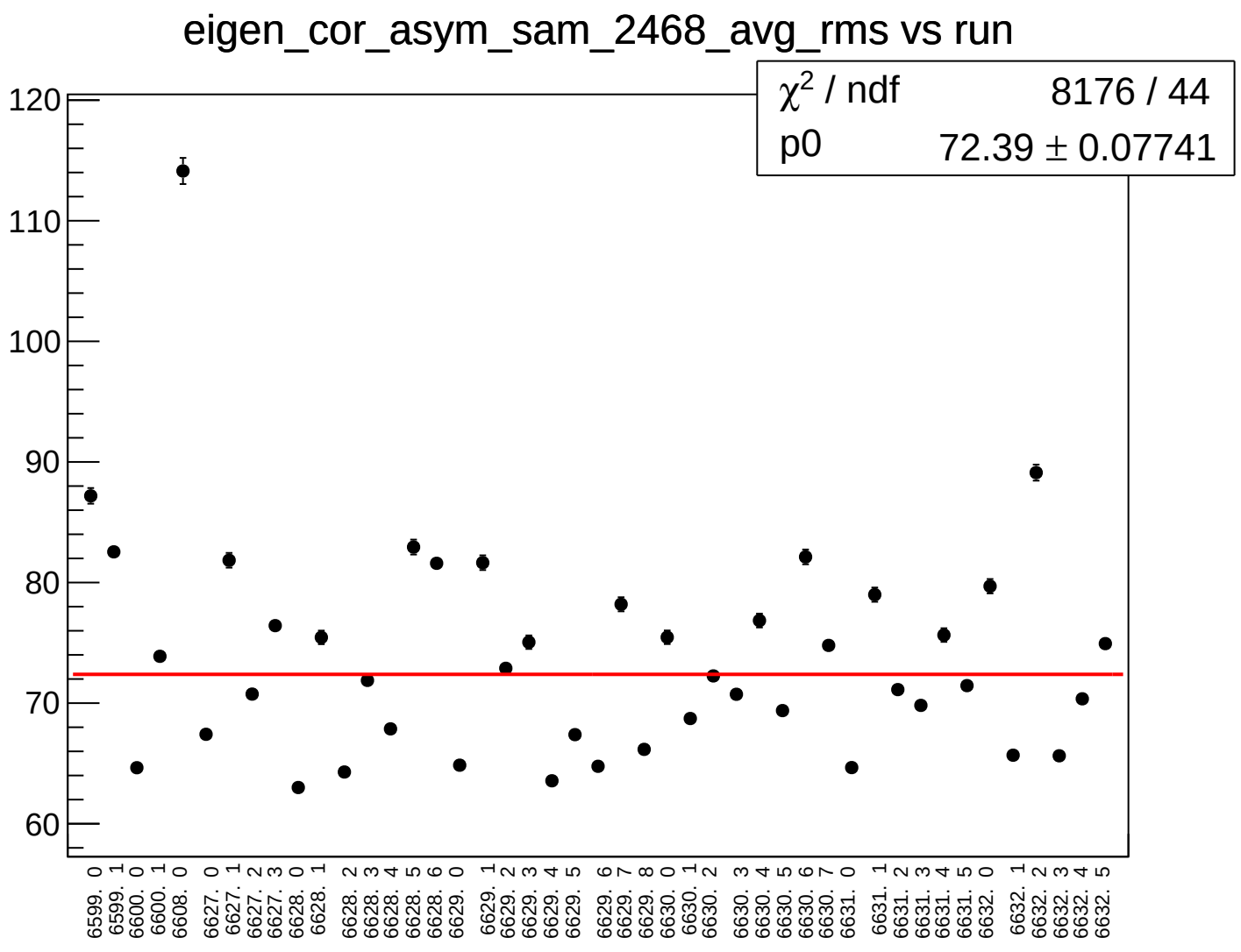
6632. 4
6632. 5


eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 35.63 / 44
p0 59.77 ± 109.5
2000
1000
0
−1000
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 94.72
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.009729
Std Dev 0.8898
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 8176 / 44
p0 72.39 ± 0.07741
120
110
100
90
80
70
60
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 6
6629. 0
6629. 1
6629. 2
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
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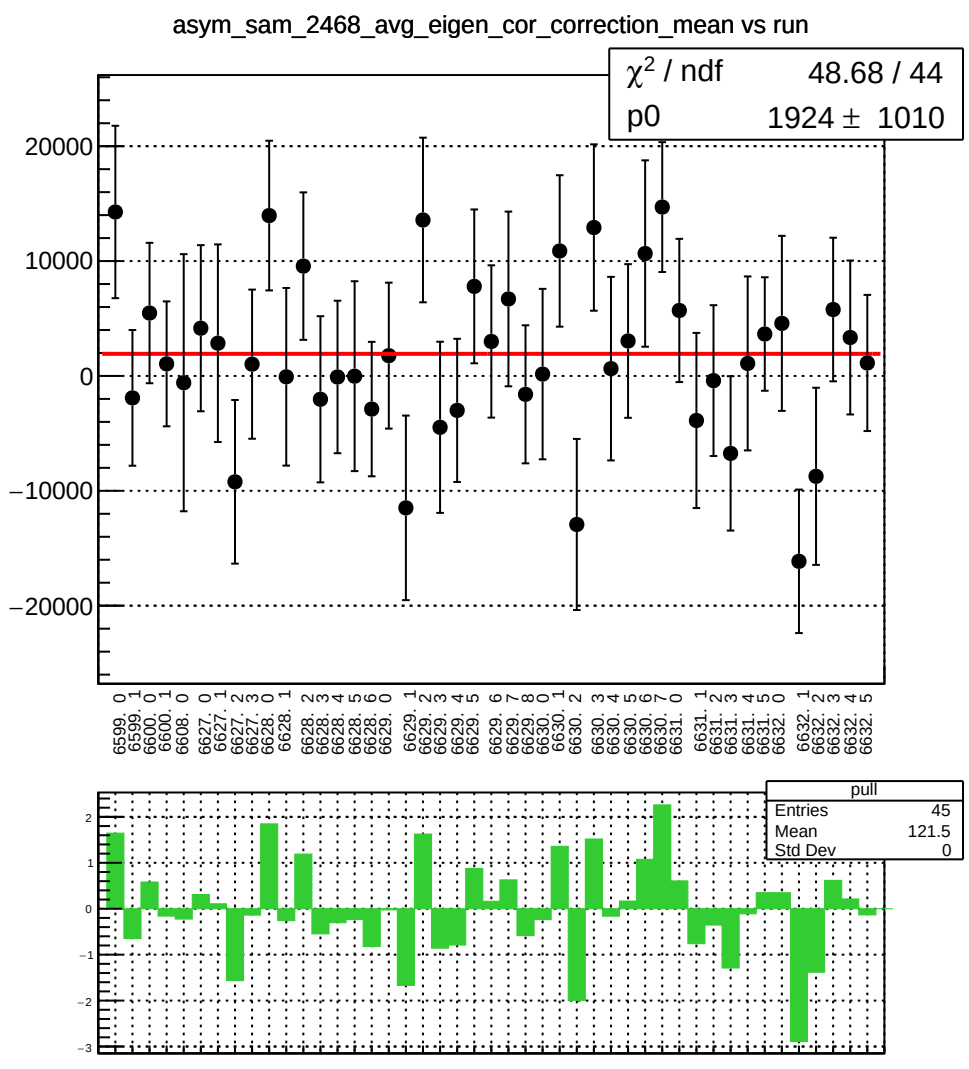
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 48.68 / 44
p0 1924 ± 1010
20000
10000
0
−10000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
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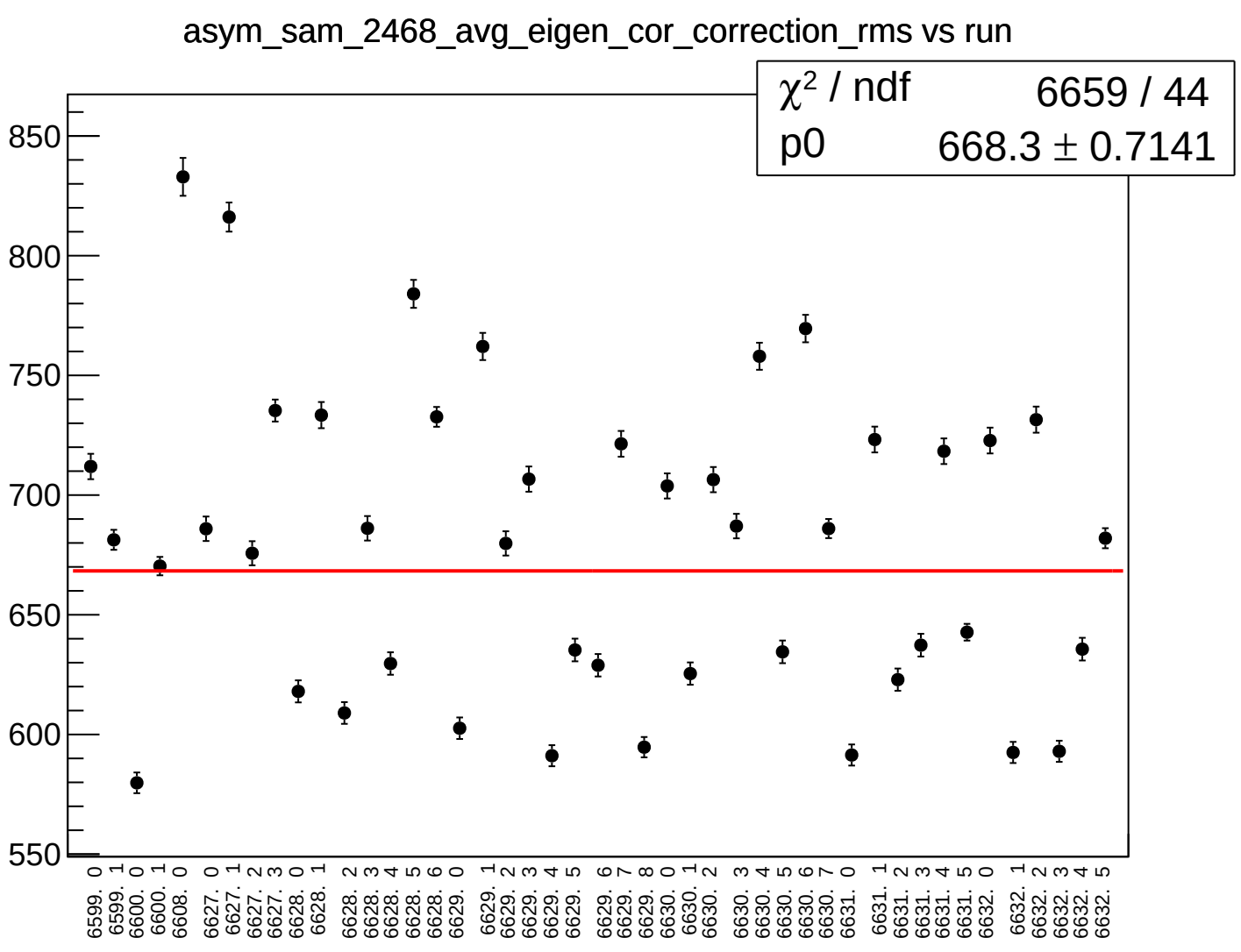
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 121.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.01471
Std Dev 1.04
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 6659 / 44
p0 668.3 ± 0.7141
850
800
750
700
650
600
550
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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6628. 4
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6628. 6
6629. 0
6629. 1
6629. 2
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6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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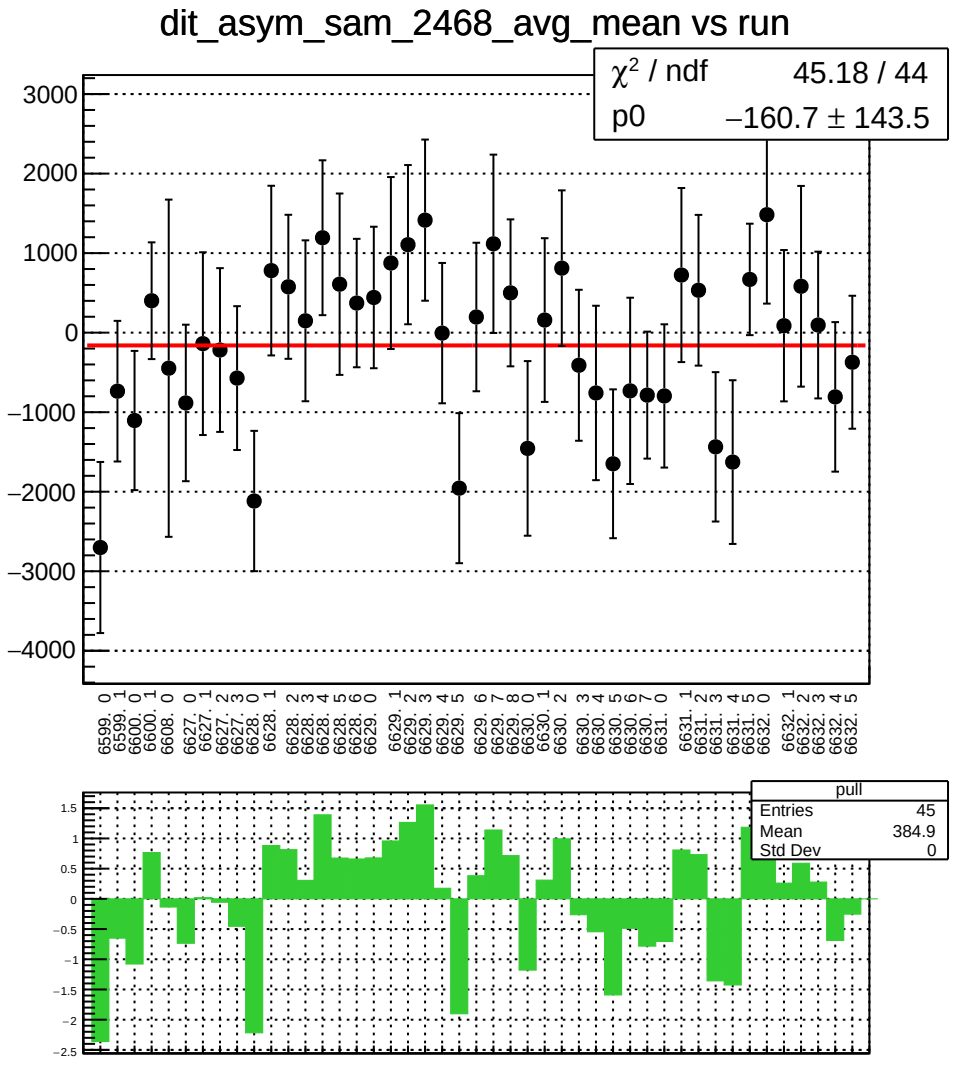
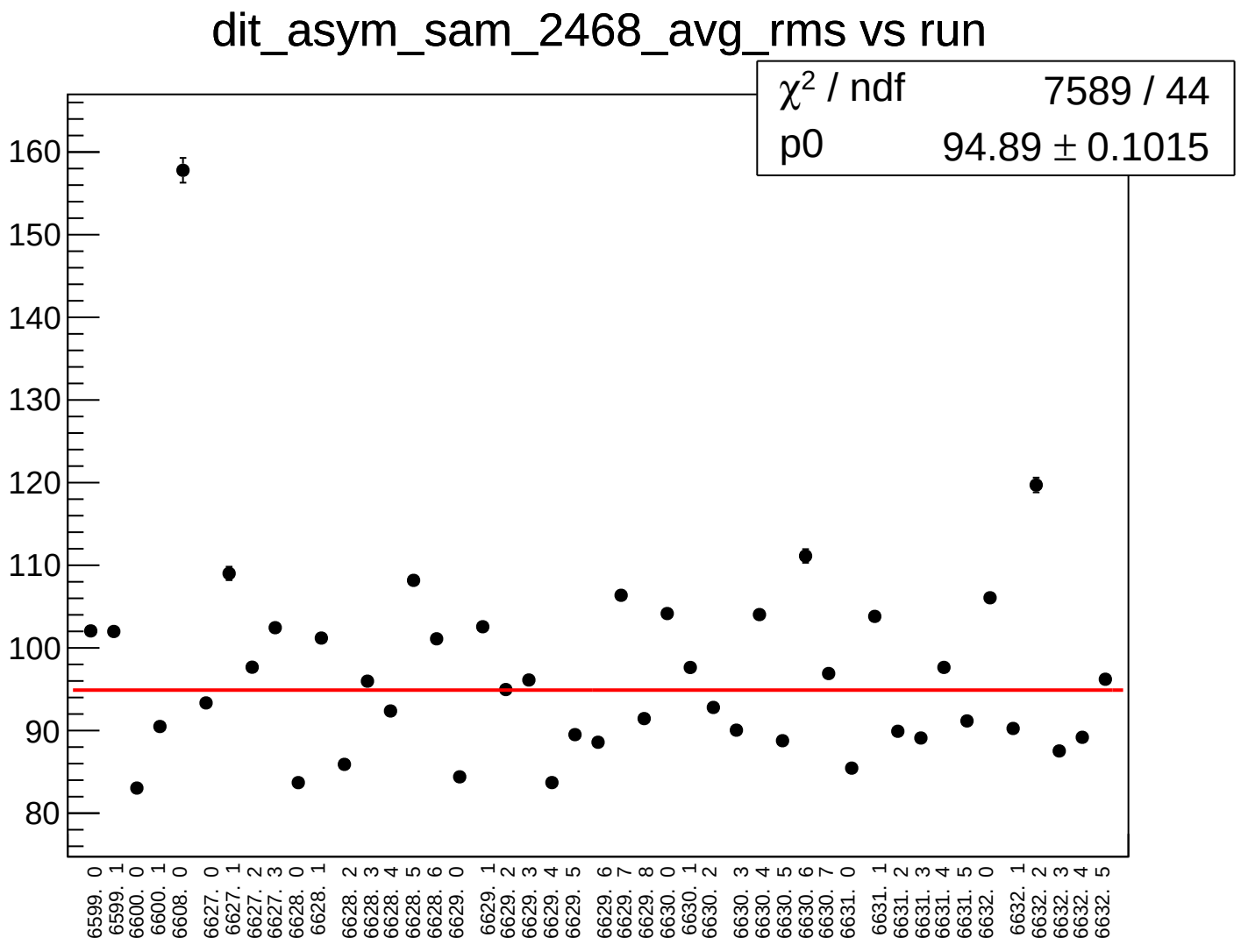
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


dit_asym_sam_2468_avg_mean vs run
χ² / ndf 45.18 / 44
p0 −160.7 ± 143.5
3000
2000
1000
0
−1000
−2000
−3000
−4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 384.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.003218
Std Dev 1.002
8
7
6
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 7589 / 44
p0 94.89 ± 0.1015
160
150
140
130
120
110
100
90
80
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
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6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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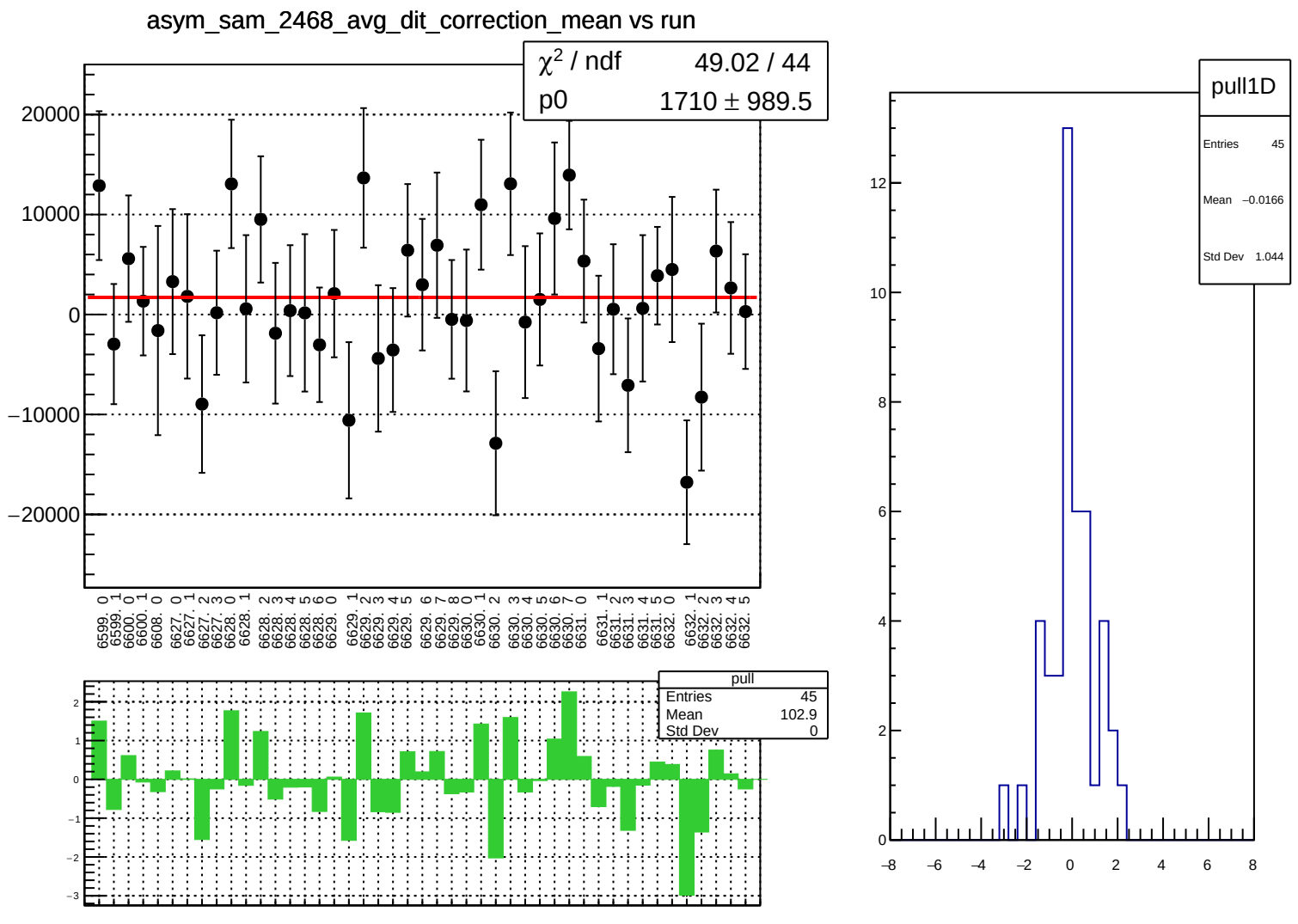
6632. 5


asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 49.02 / 44
p0 1710 ± 989.5
20000
10000
0
−10000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6628. 4
6628. 5
6628. 6
6629. 0
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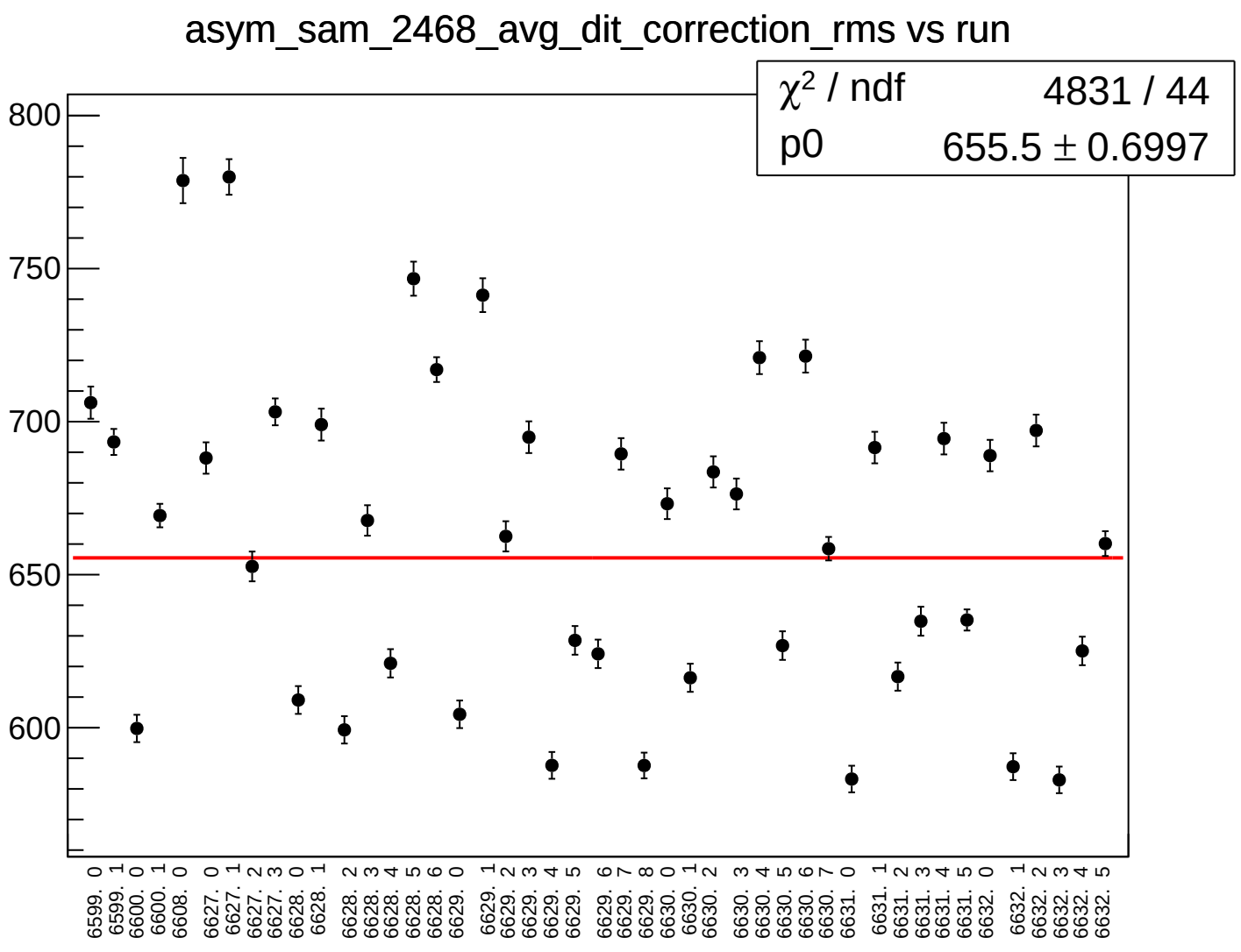
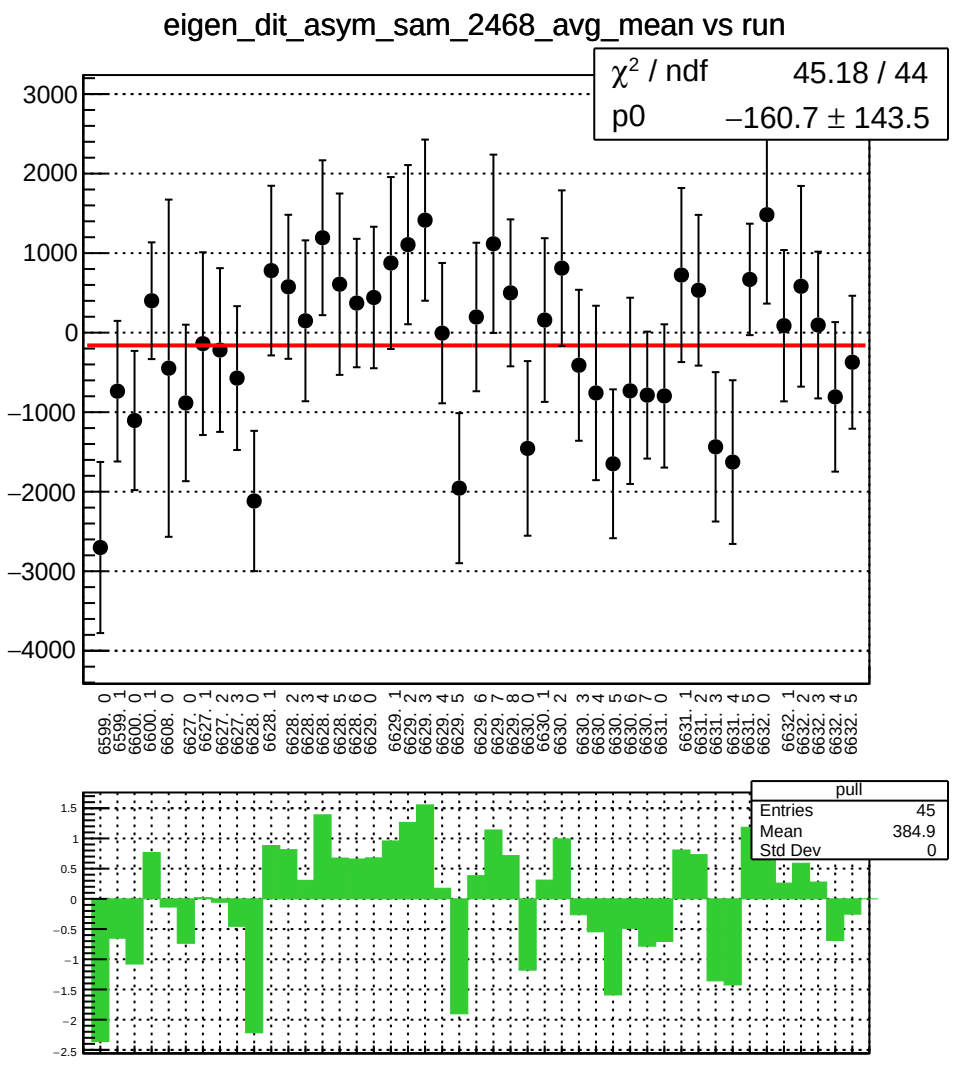
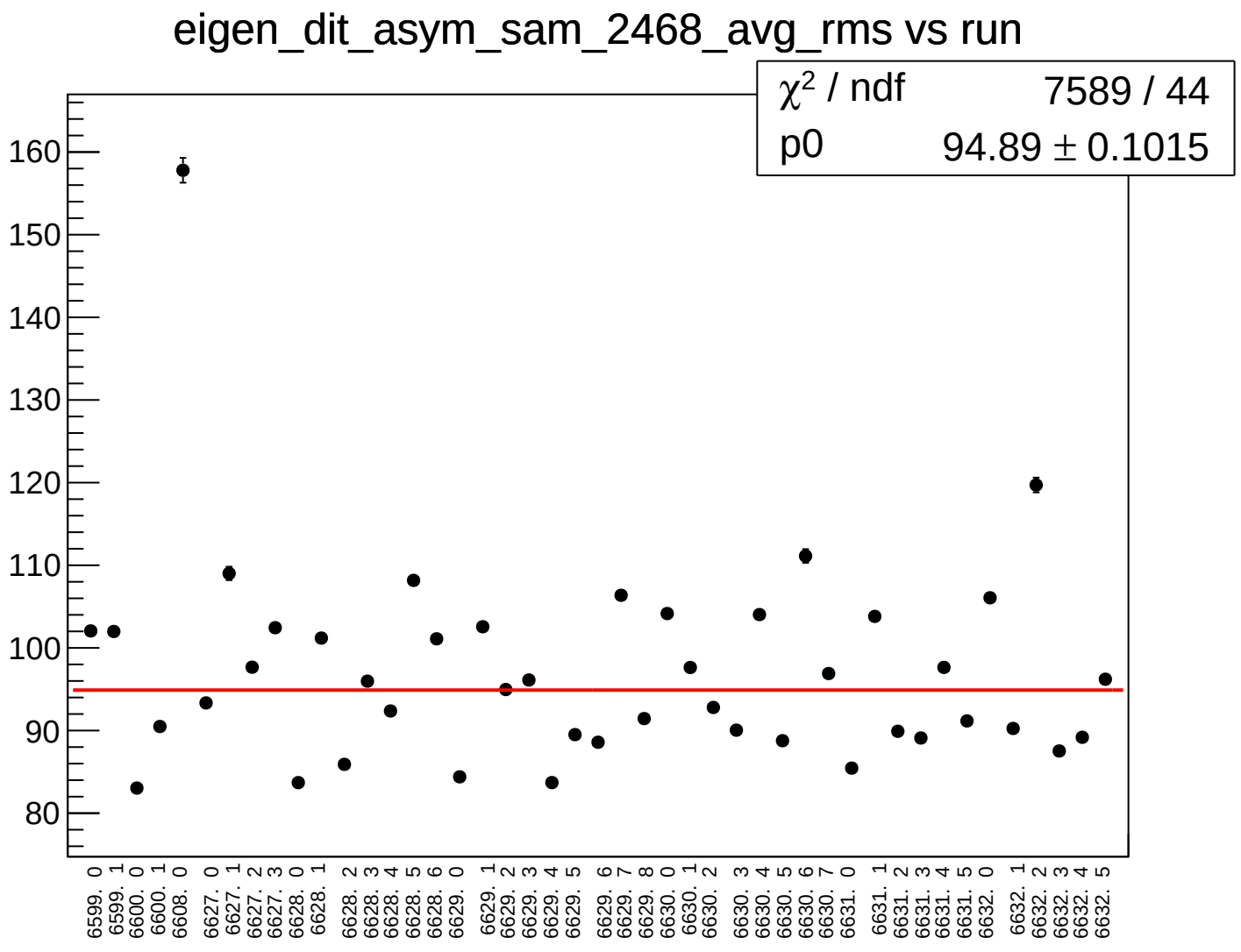
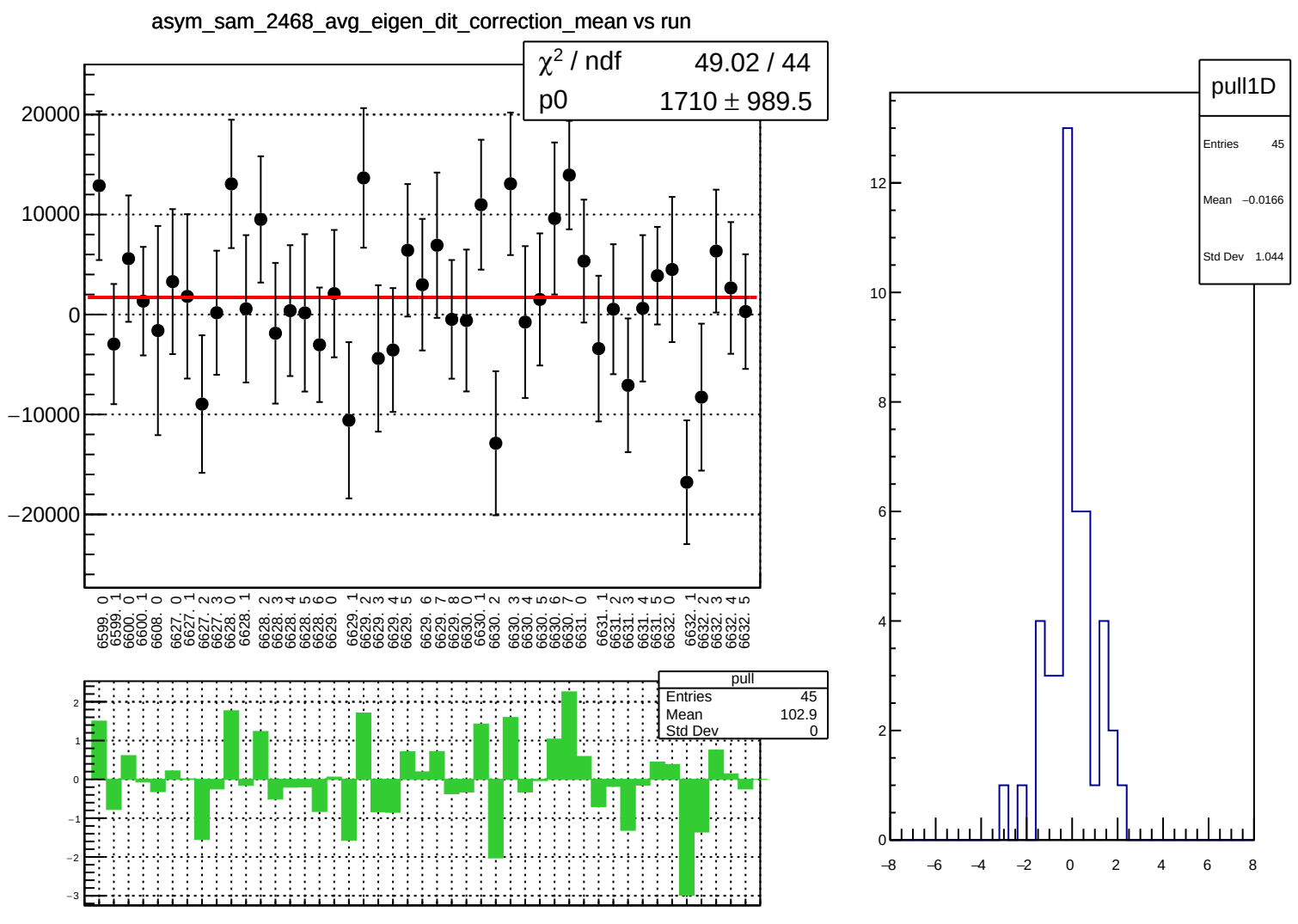
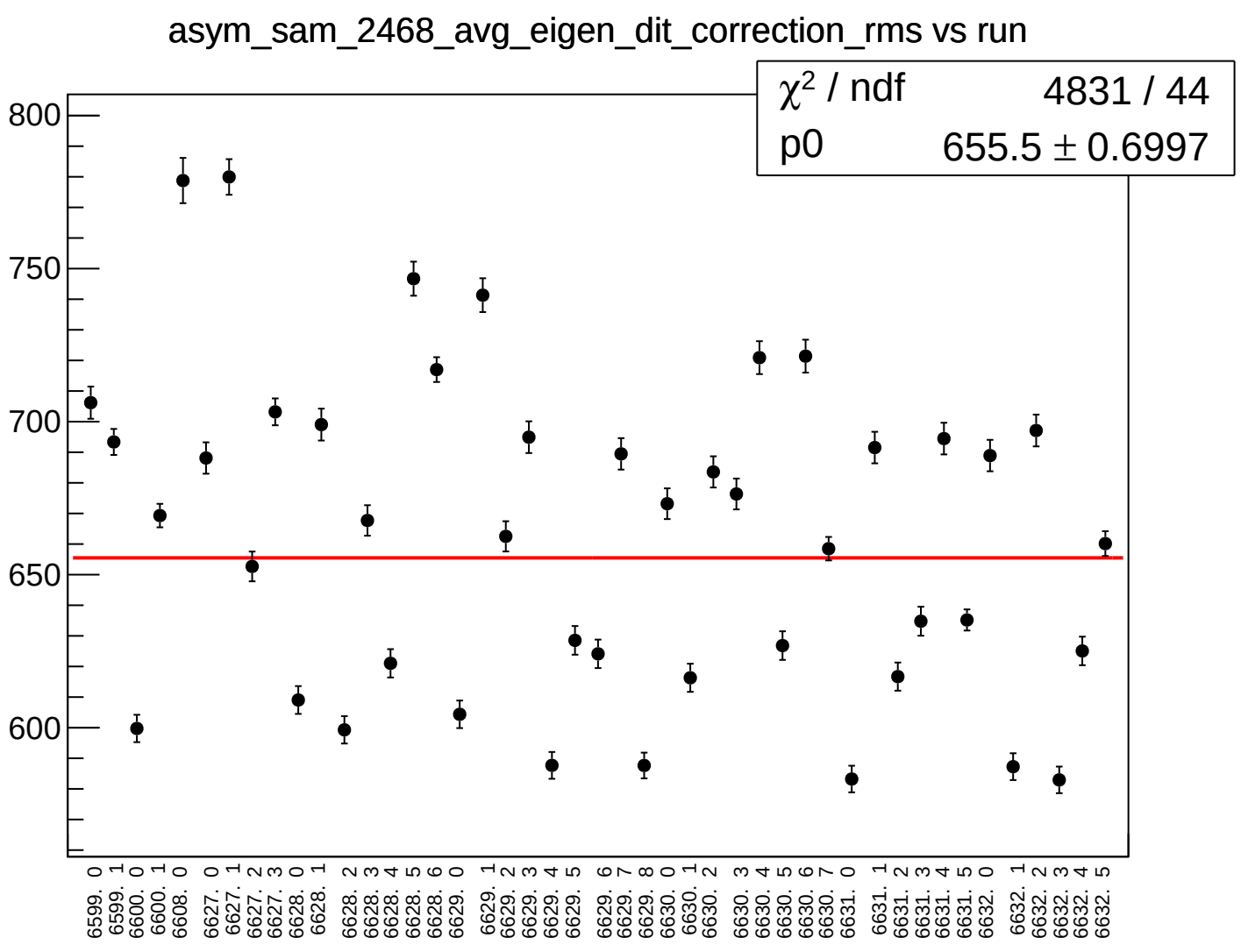
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 102.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.0166
Std Dev 1.044
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

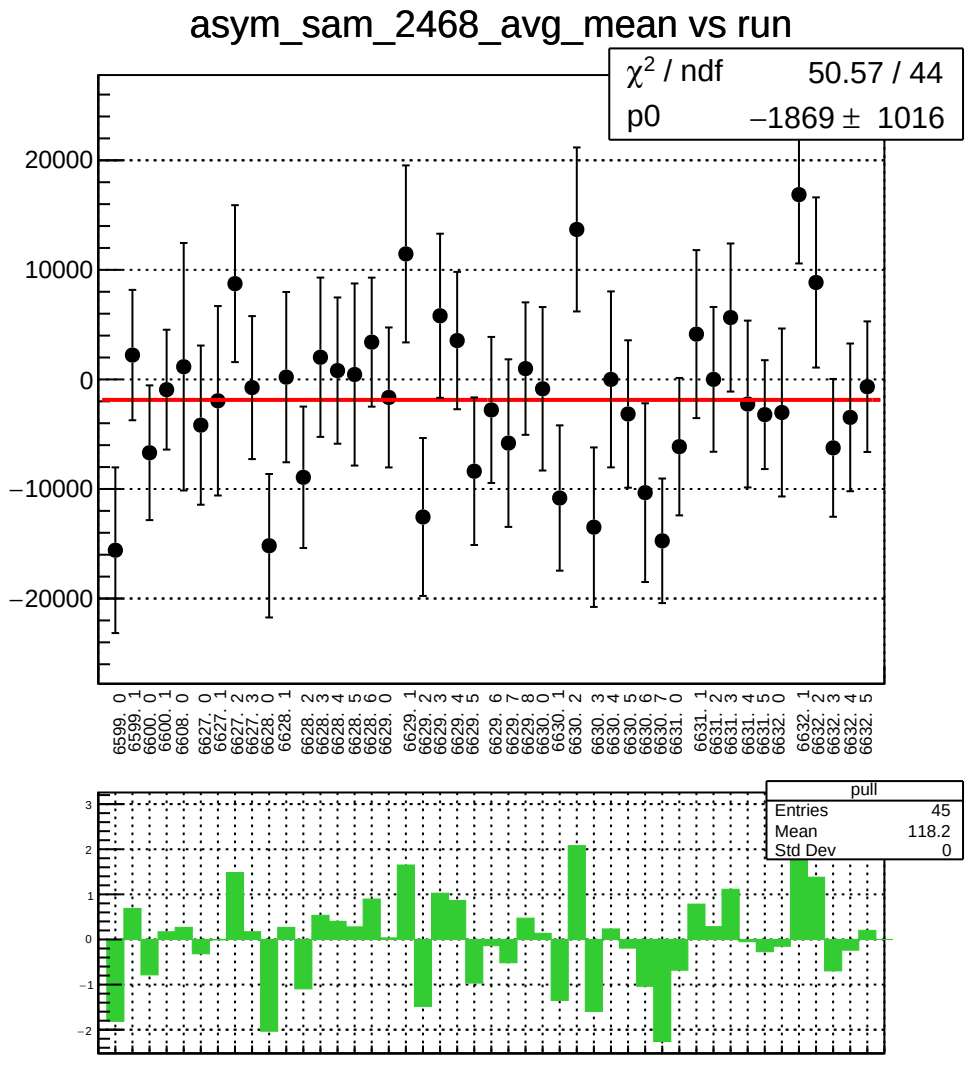

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 4831 / 44
p0 655.5 ± 0.6997
800
750
700
650
600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

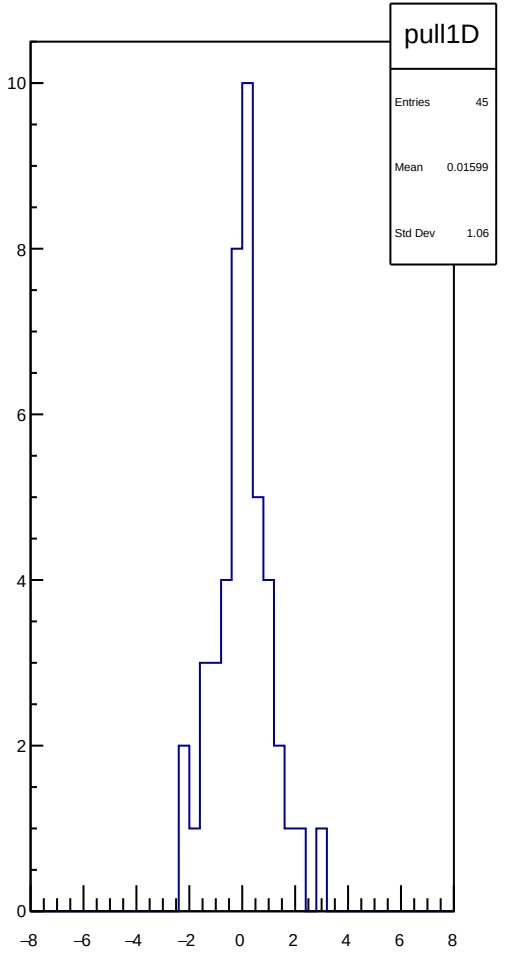

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 45.18 / 44
p0 −160.7 ± 143.5
3000
2000
1000
0
−1000
−2000
−3000
−4000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 384.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.003218
Std Dev 1.002
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

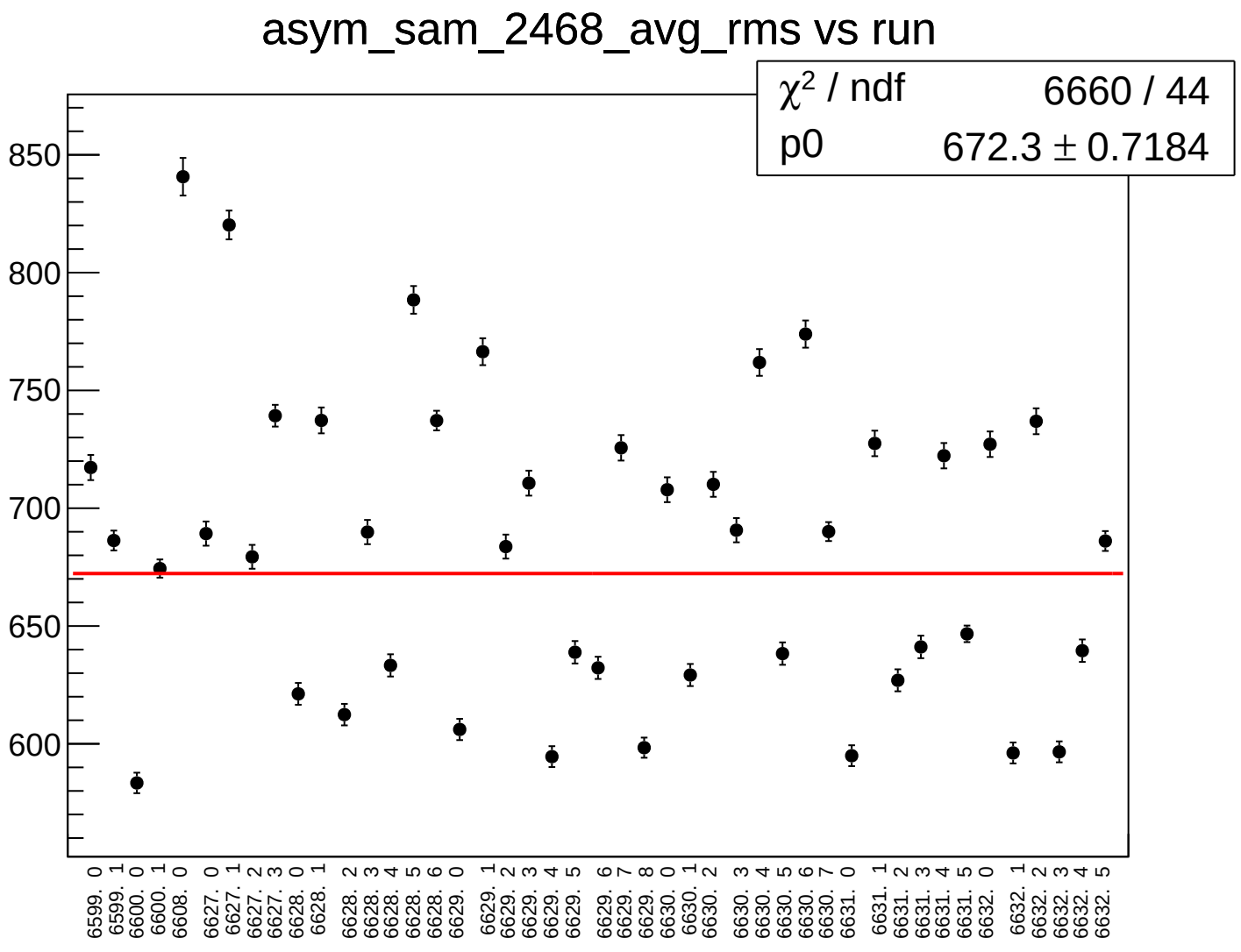

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 7589 / 44
p0 94.89 ± 0.1015
160
150
140
130
120
110
100
90
80
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

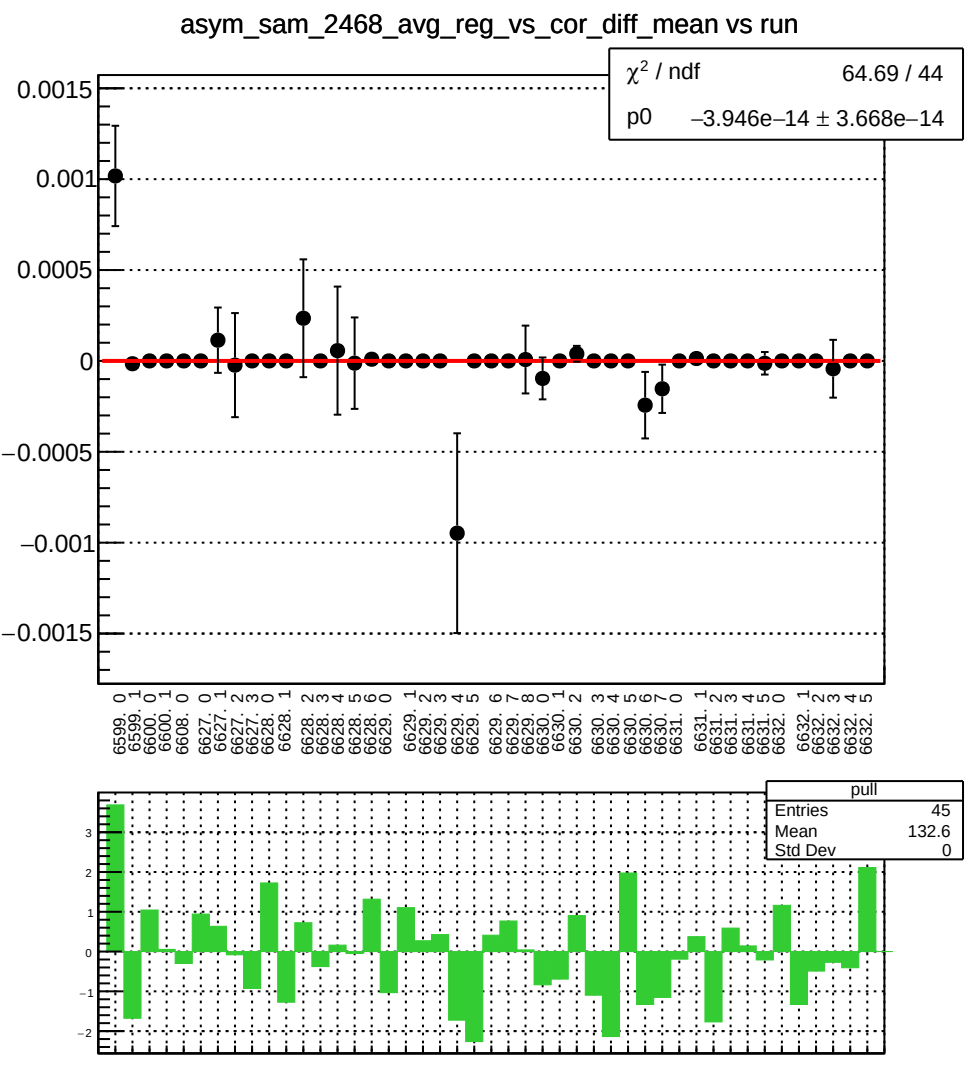

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 49.02 / 44
p0 1710 ± 989.5
20000
10000
0
−10000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 102.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.0166
Std Dev 1.044
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

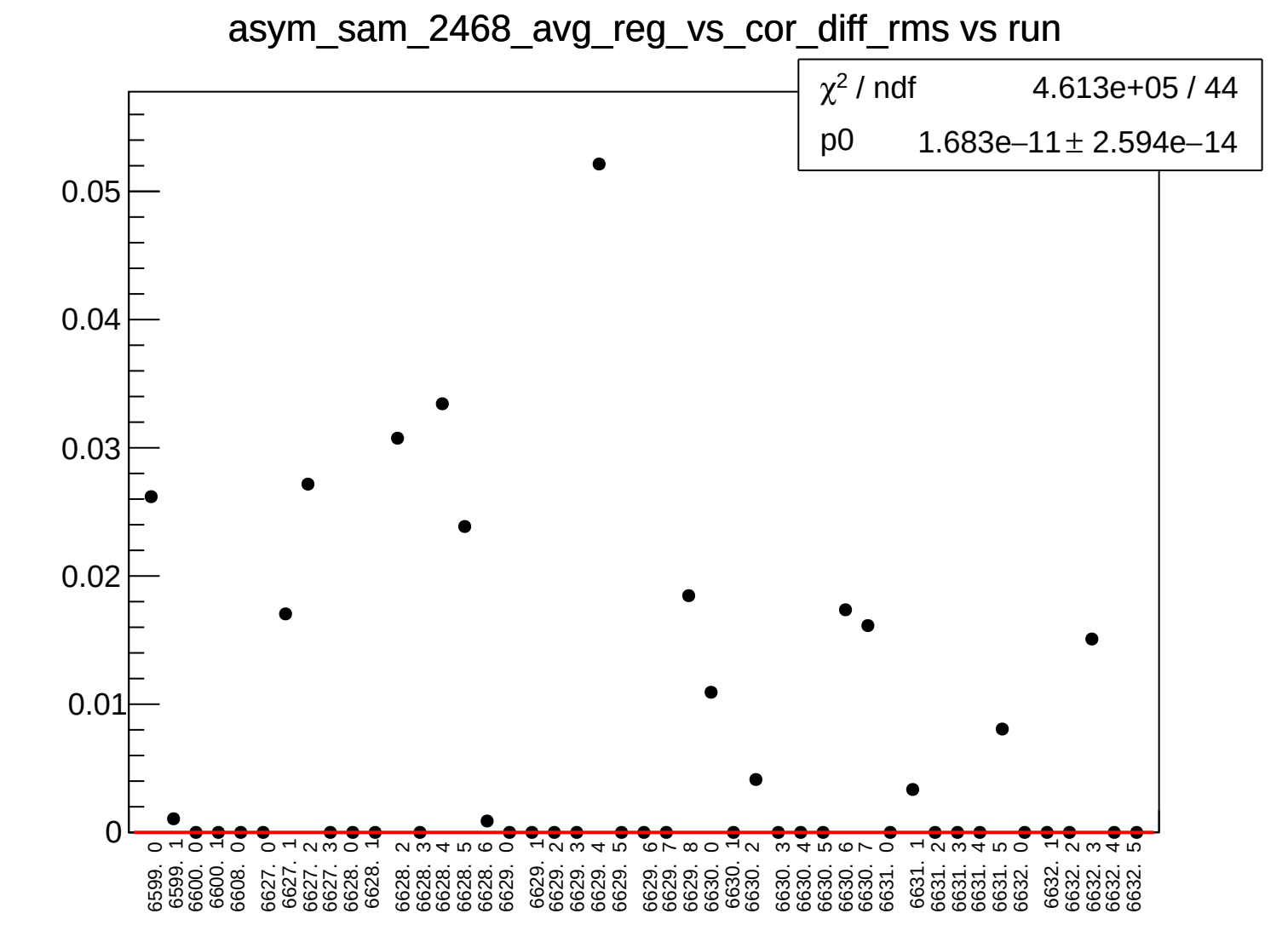

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 4831 / 44
p0 655.5 ± 0.6997
800
750
700
650
600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

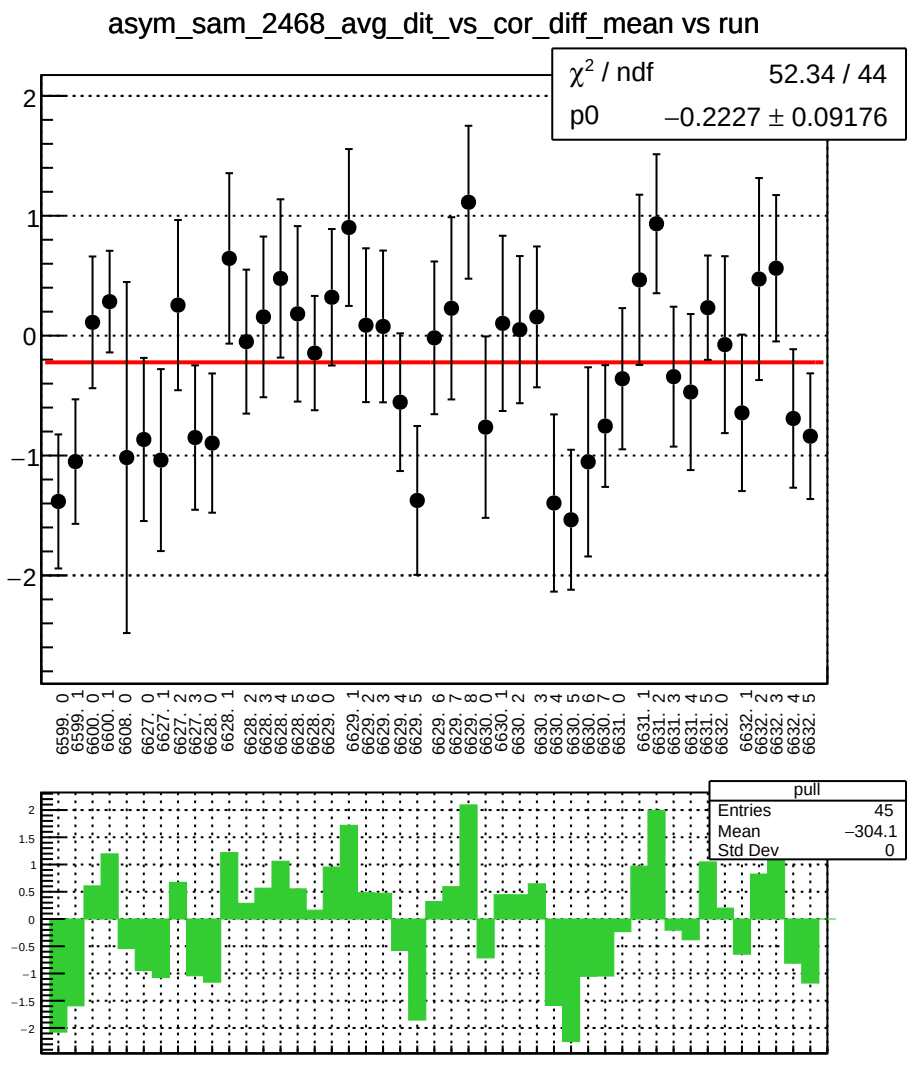

asym_sam_2468_avg_mean vs run
χ² / ndf 50.57 / 44
p0 −1869 ± 1016
20000
10000
0
−10000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 118.2
Std Dev 0
3
2
1
0
−1
−2

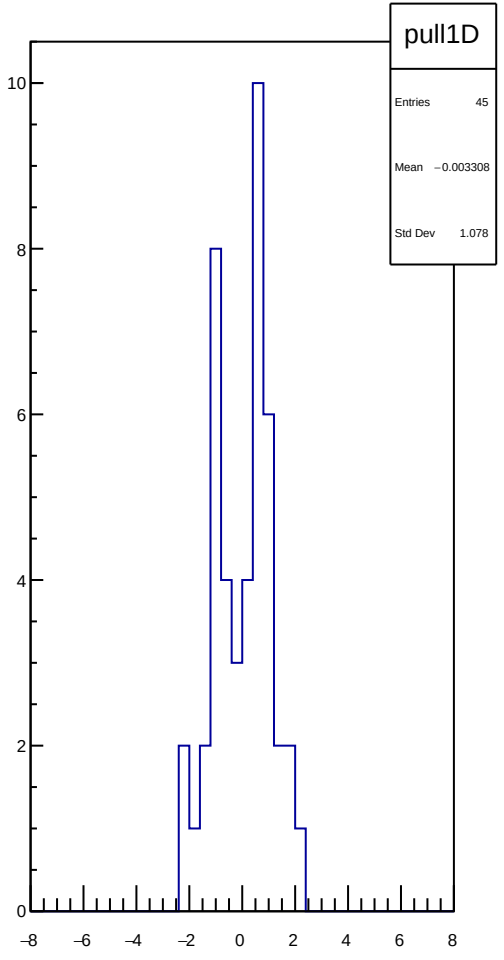

pull1D
Entries 45
Mean 0.01599
Std Dev 1.06
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

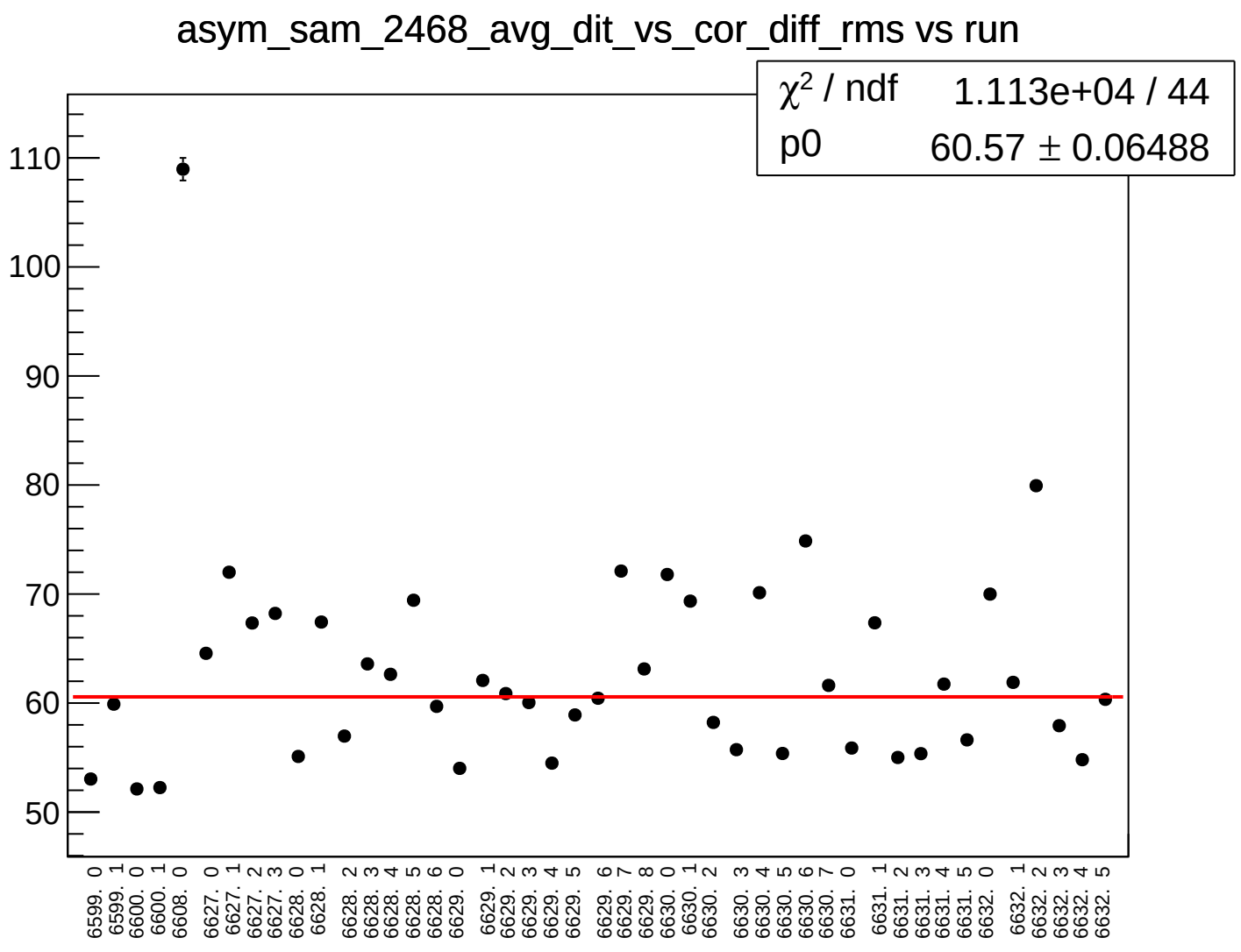

asym_sam_2468_avg_rms vs run
χ² / ndf 6660 / 44
p0 672.3 ± 0.7184
850
800
750
700
650
600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

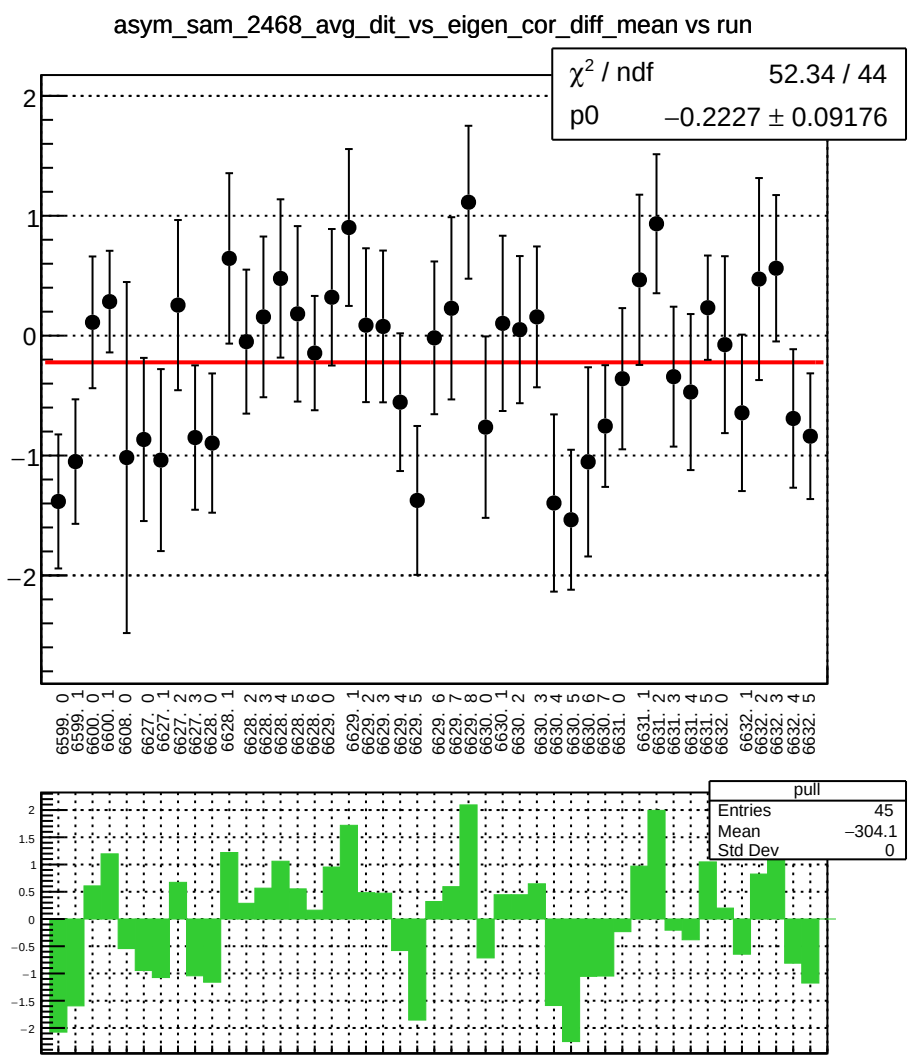

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 64.69 / 44
p0 −3.946e−14 ± 3.668e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 132.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02335
Std Dev 1.199
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

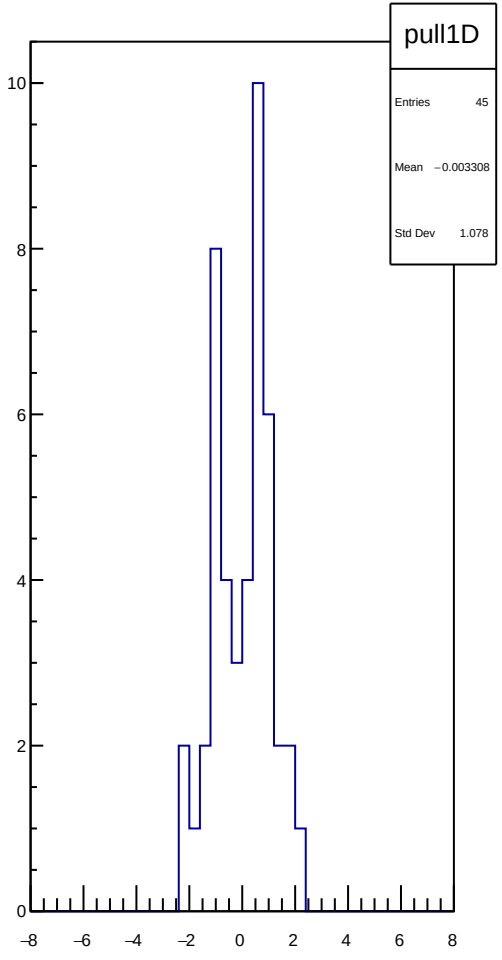

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.613e+05 / 44
p0 1.683e−11 ± 2.594e−14
0.05
0.04
0.03
0.02
0.01
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

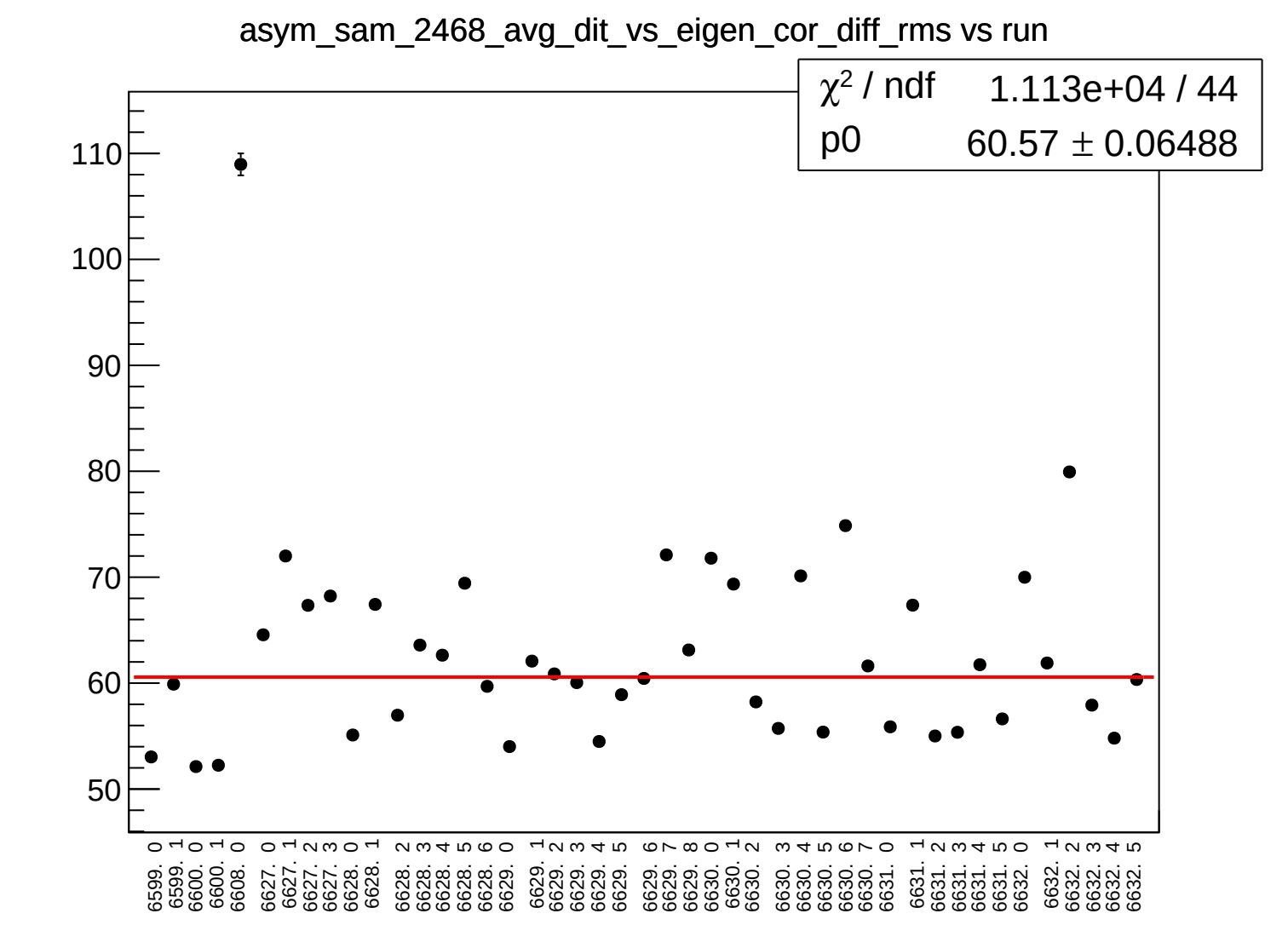

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 52.34 / 44
p0 −0.2227 ± 0.09176
pull
Entries 45
Mean −304.1
Std Dev 0


pull1D
Entries 45
Mean −0.003308
Std Dev 1.078


asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.113e+04 / 44
p0 60.57 ± 0.06488
110
100
90
80
70
60
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.34 / 44
p0 −0.2227 ± 0.09176
pull
Entries 45
Mean −304.1
Std Dev 0


pull1D
Entries 45
Mean −0.003308
Std Dev 1.078


asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.113e+04 / 44
p0 60.57 ± 0.06488
110
100
90
80
70
60
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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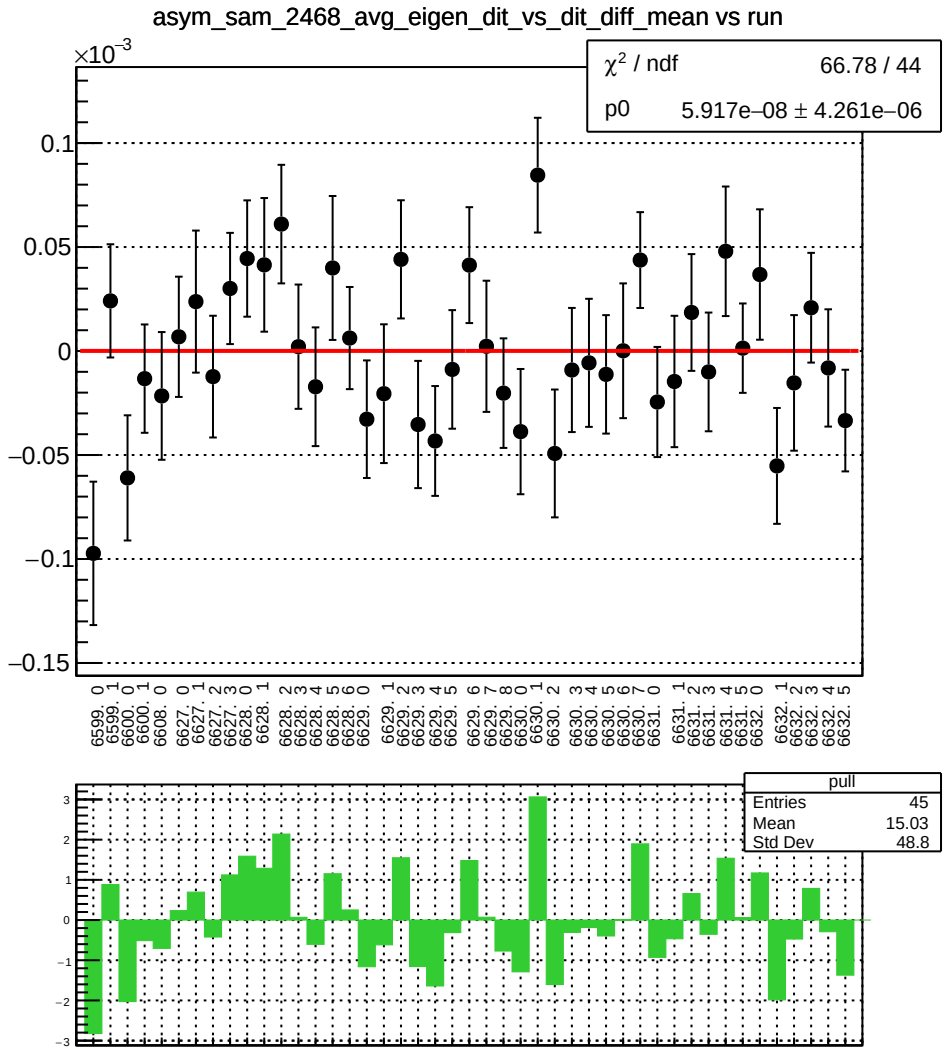
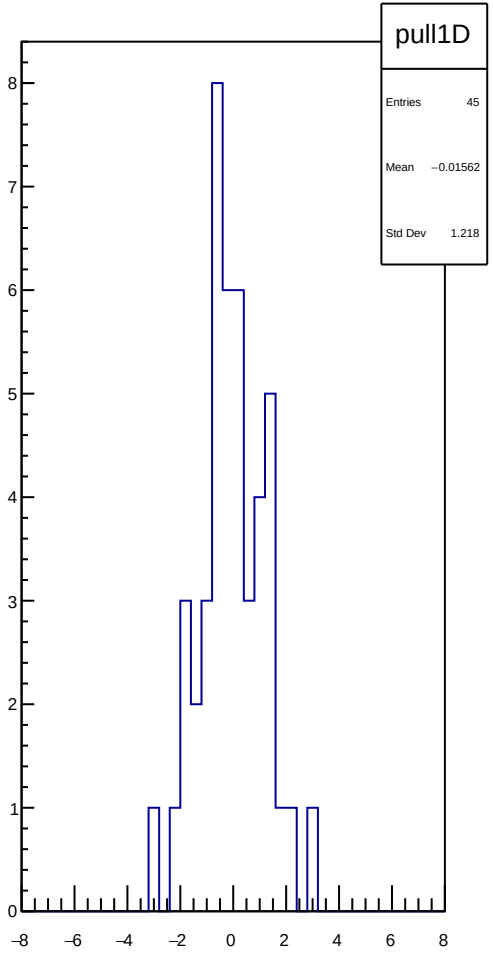
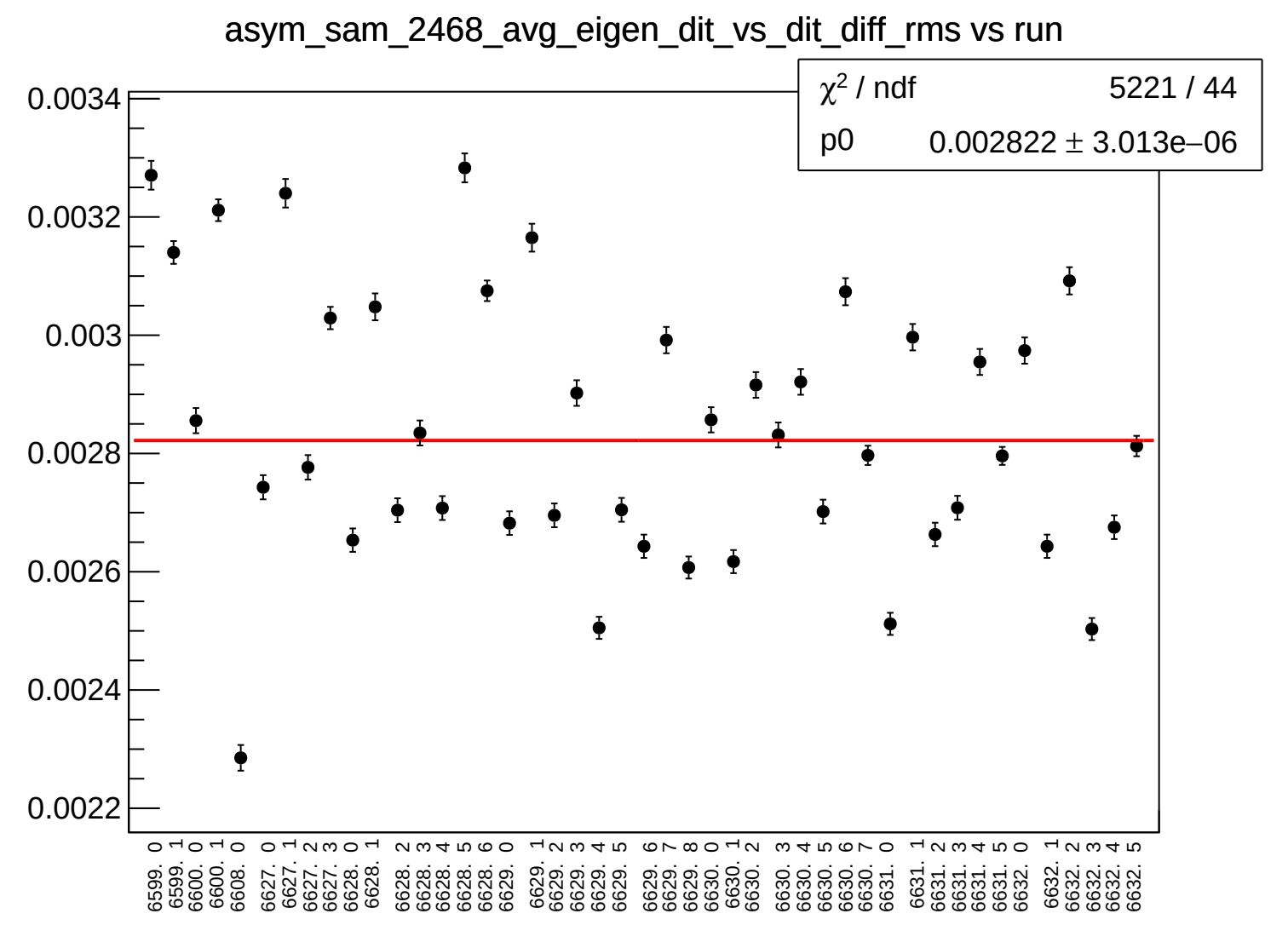
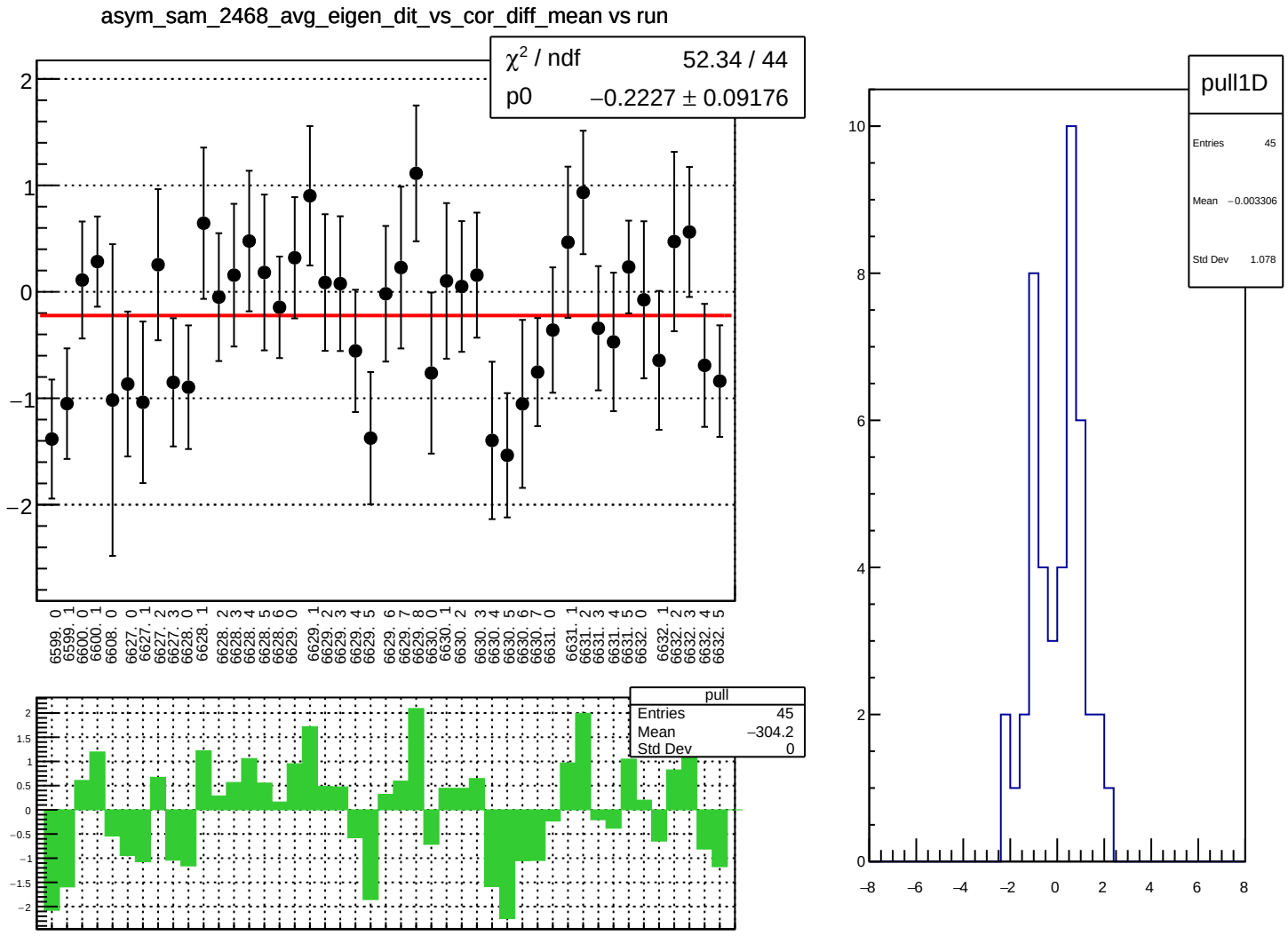
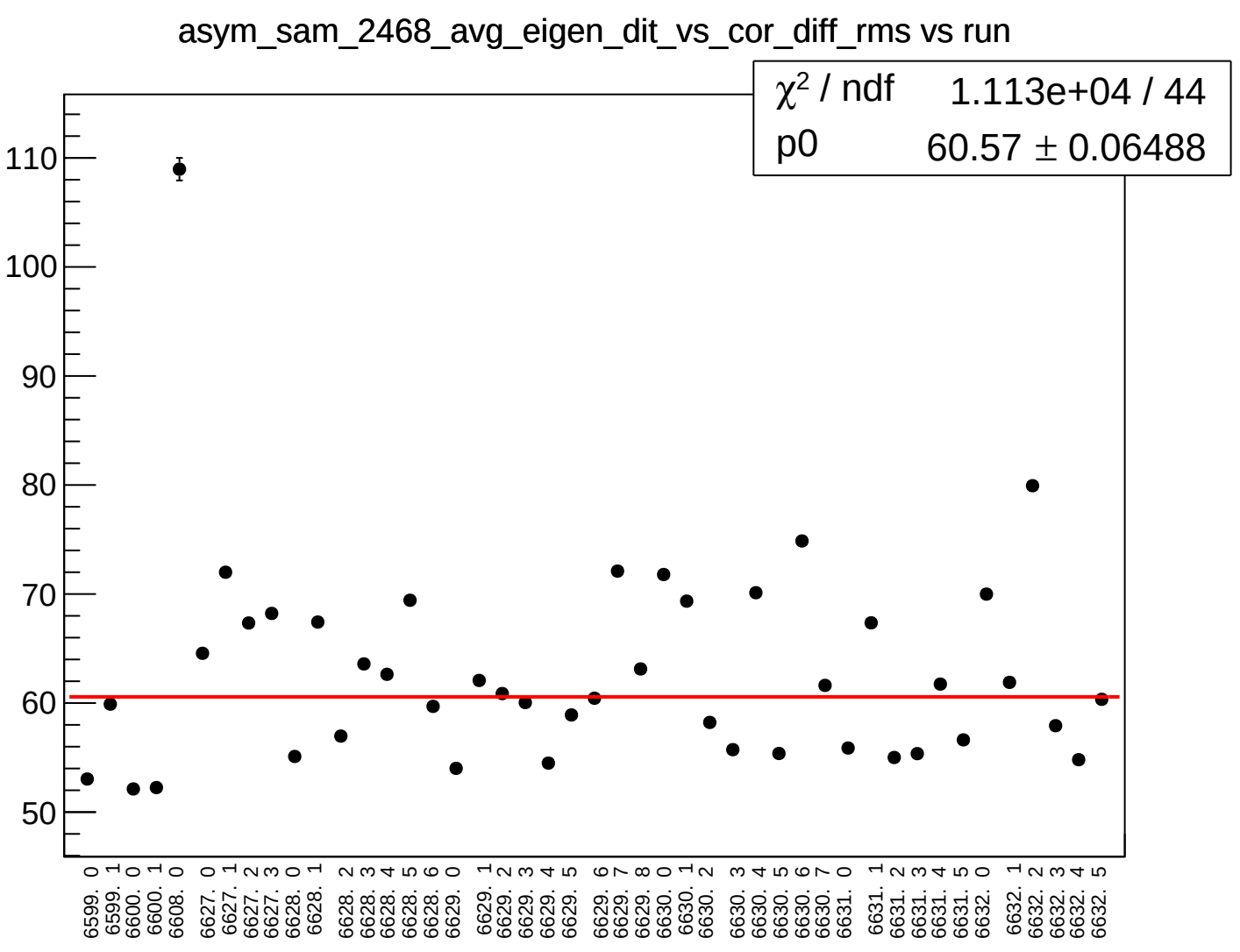
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 66.78 / 44
p0 5.917e−08 ± 4.261e−06
0.1
0.05
0
−0.05
−0.1
−0.15
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 15.03
Std Dev 48.8
3
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.01562
Std Dev 1.218
8
7
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 5221 / 44
p0 0.002822 ± 3.013e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 52.34 / 44
p0 −0.2227 ± 0.09176
pull
Entries 45
Mean −304.2
Std Dev 0
pull1D
Entries 45
Mean −0.003306
Std Dev 1.078


asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.113e+04 / 44
p0 60.57 ± 0.06488
110
100
90
80
70
60
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
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6629. 7
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6630. 0
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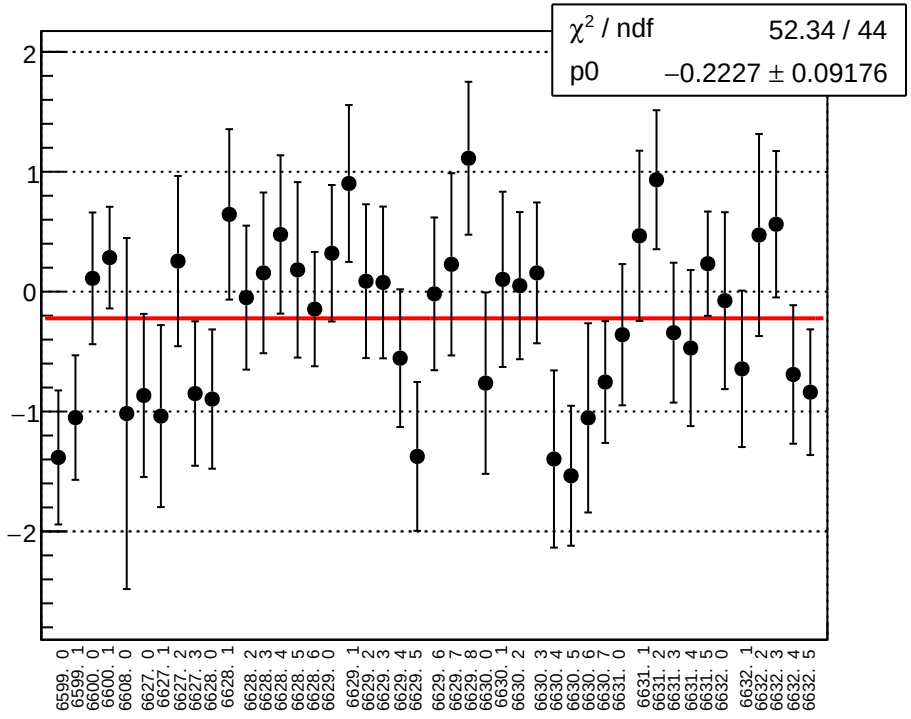
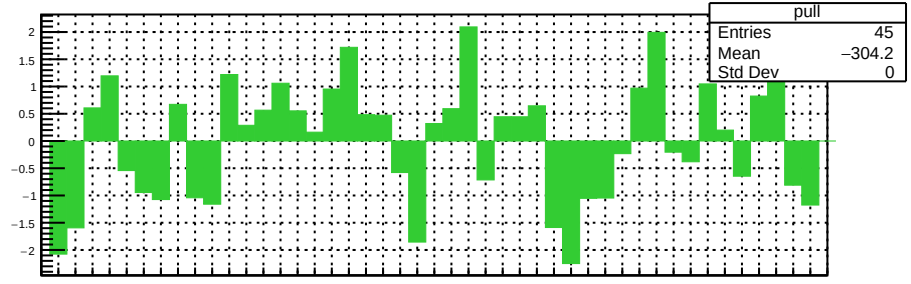
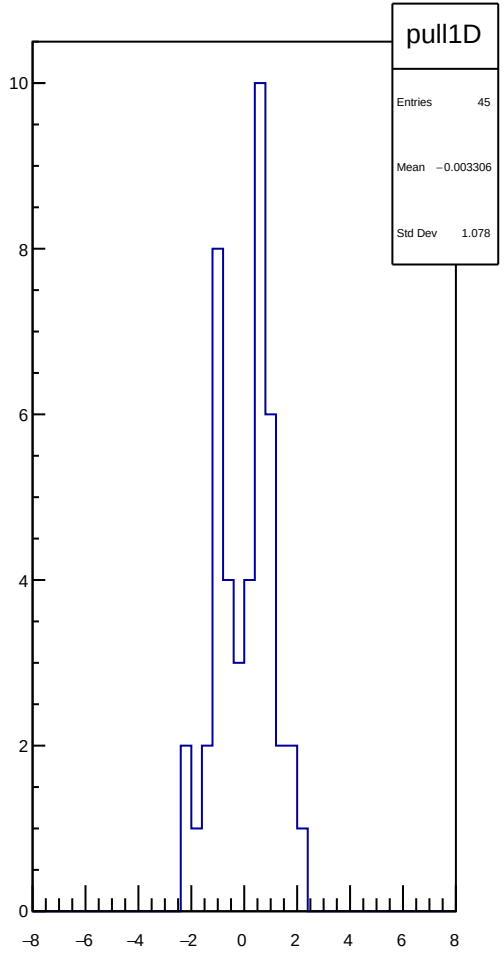
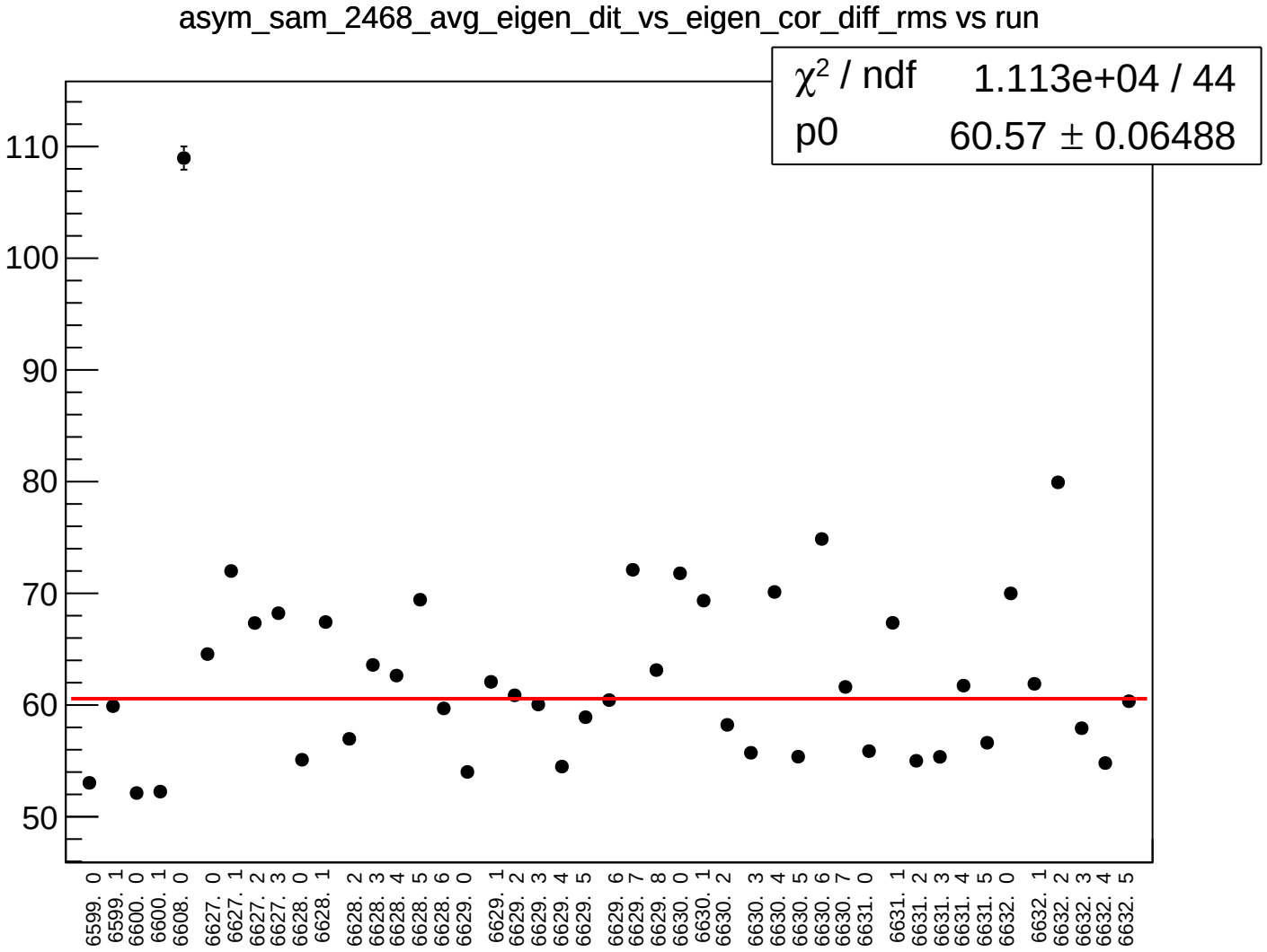
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run




asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.113e+04 / 44
p0 60.57 ± 0.06488
110
100
90
80
70
60
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
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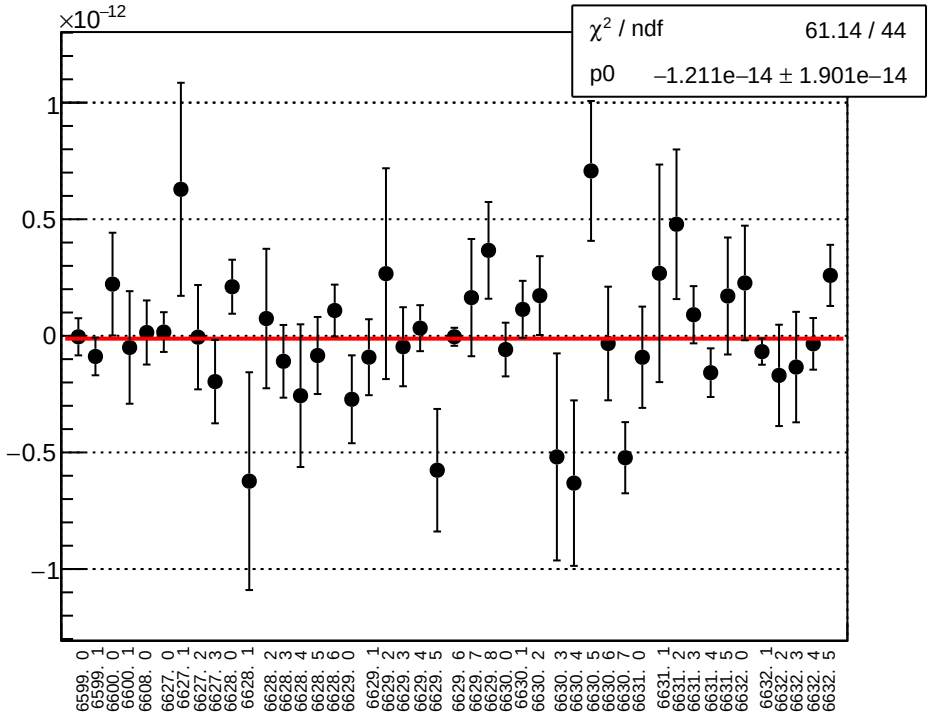
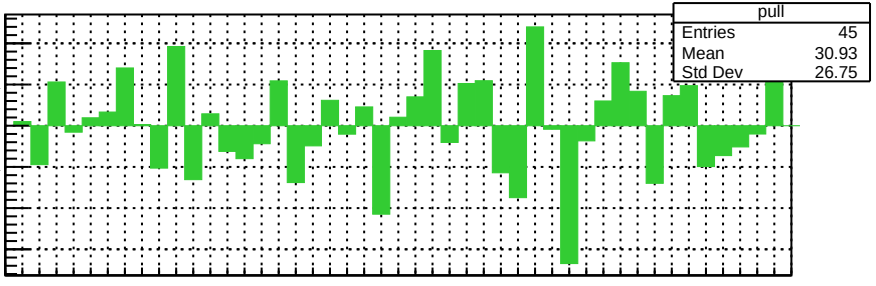
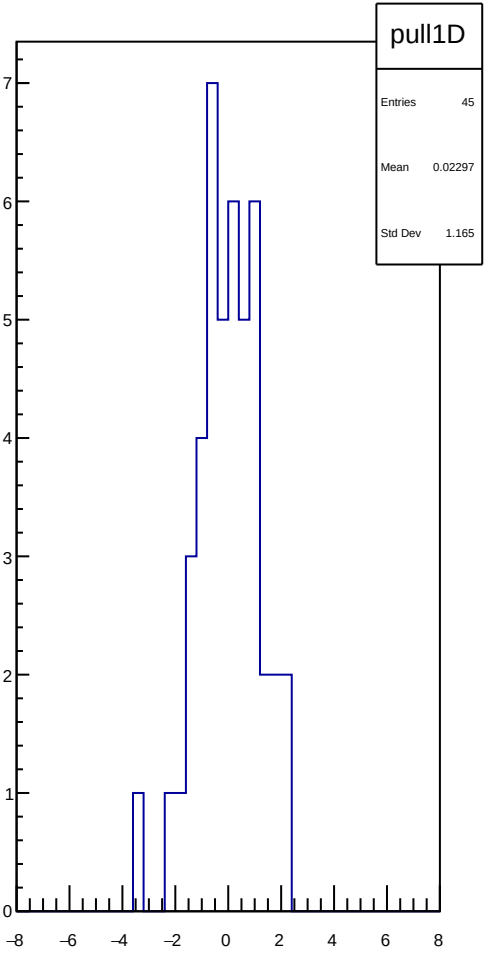
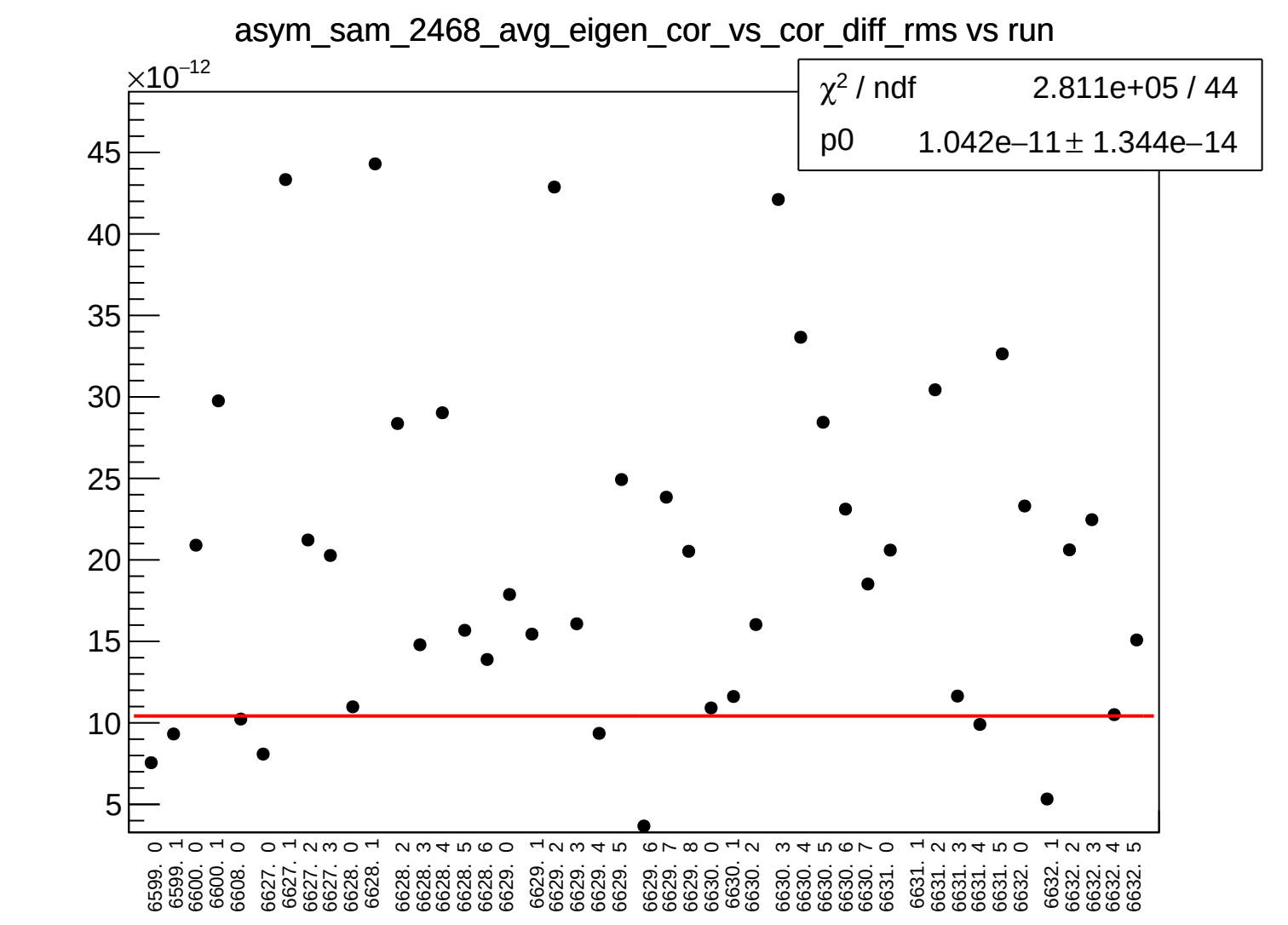
6632. 5

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run




asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.811e+05 / 44
p0 1.042e−11 ± 1.344e−14
45
40
35
30
25
20
15
10
5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6631. 0
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6632. 0
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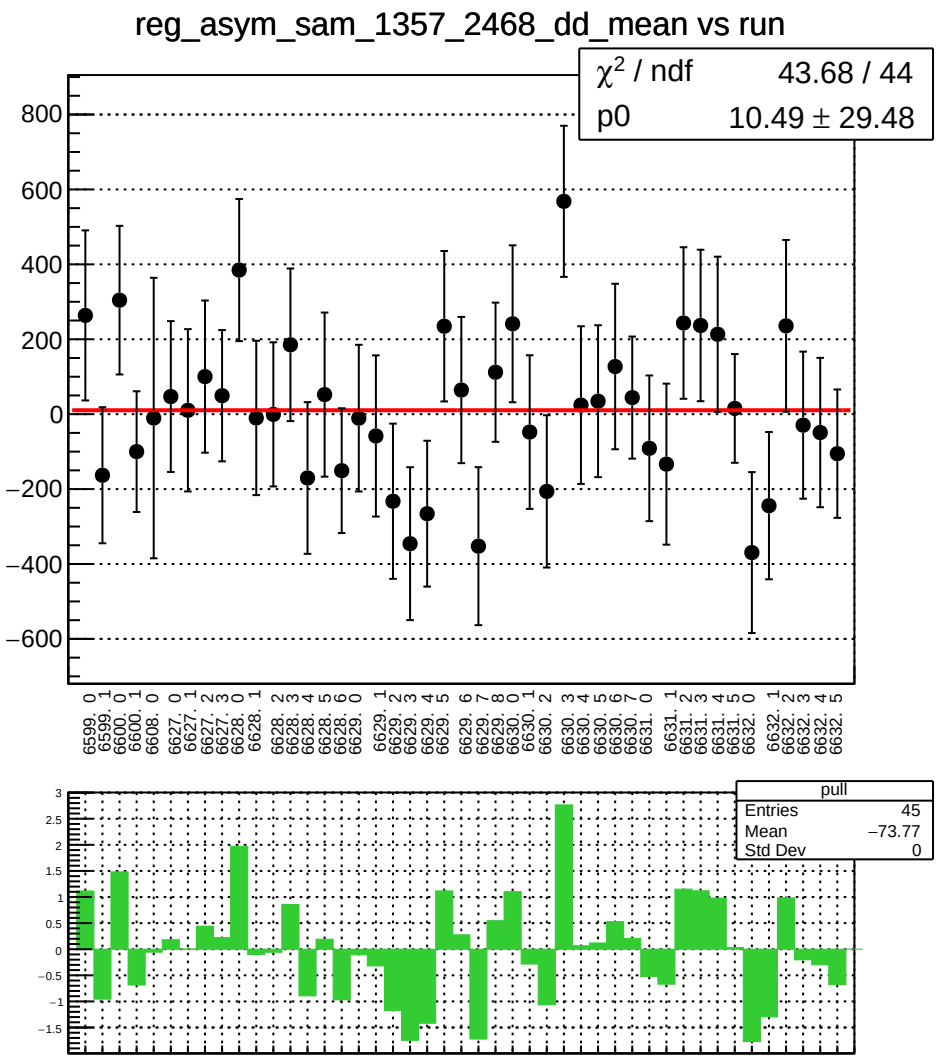
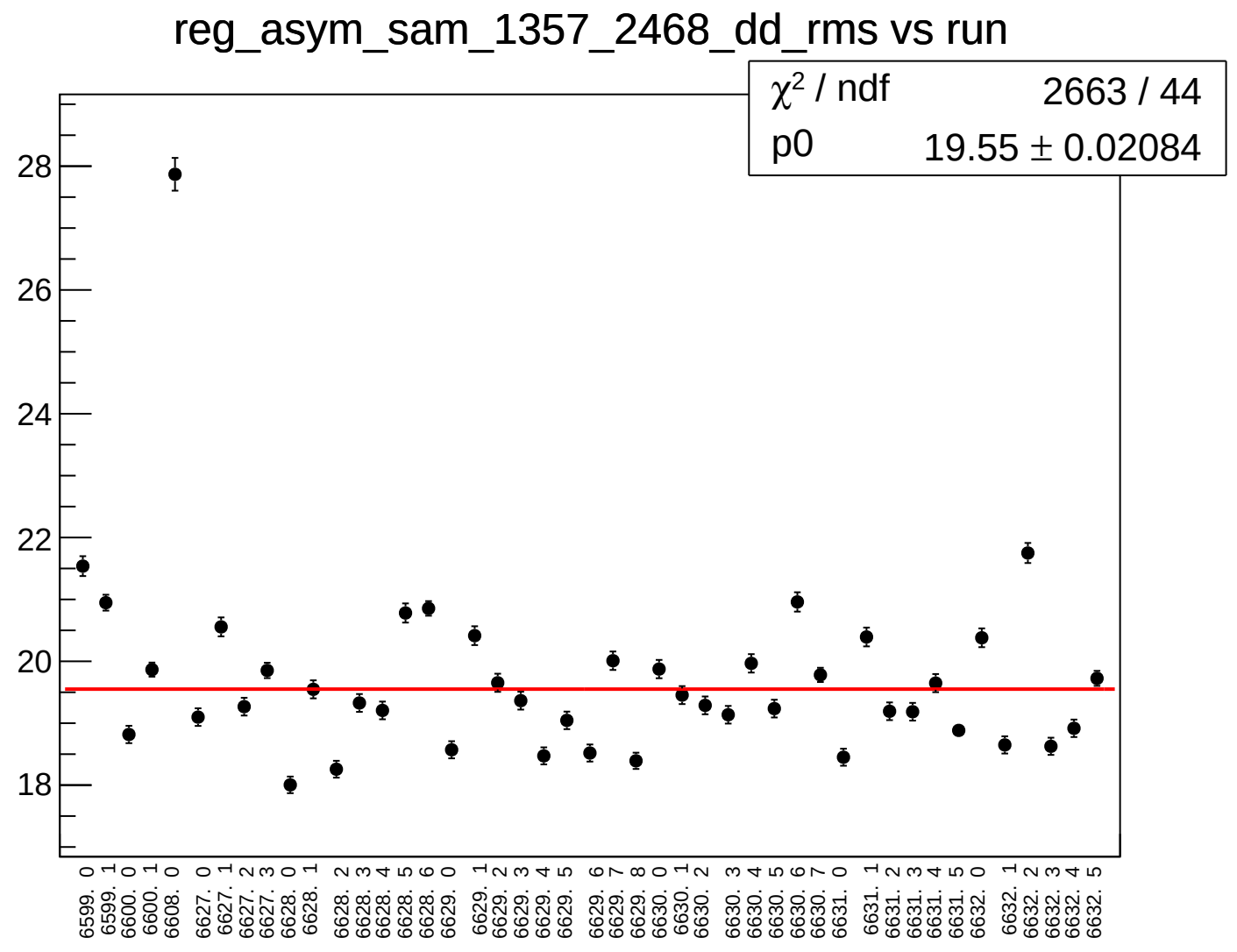

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 43.68 / 44
p0 10.49 ± 29.48
pull
Entries 45
Mean −73.77
Std Dev 0
pull1D
Entries 45
Mean 0.01037
Std Dev 0.9852


reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2663 / 44
p0 19.55 ± 0.02084
28
26
24
22
20
18
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6630. 0
6630. 1
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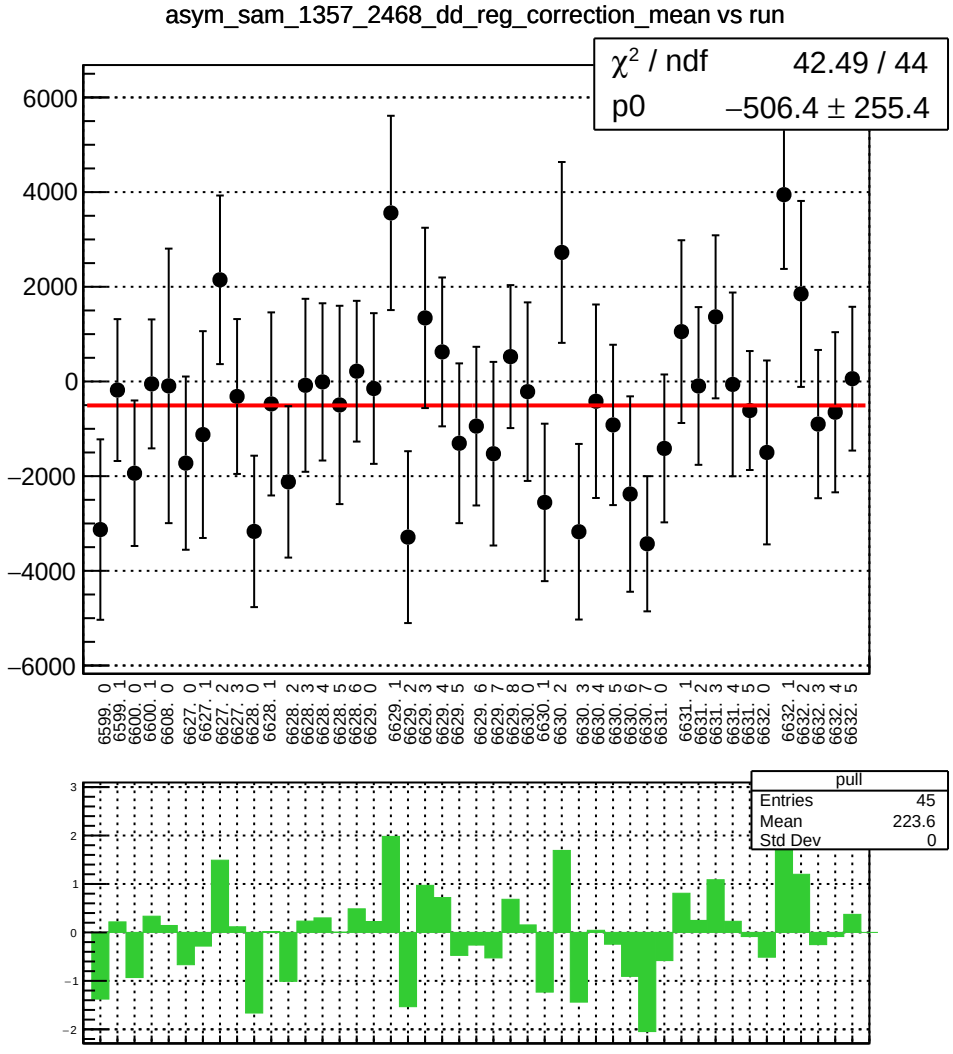
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 42.49 / 44
p0 −506.4 ± 255.4
6000
4000
2000
0
−2000
−4000
−6000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6628. 5
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6629. 0
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6630. 0
6630. 1
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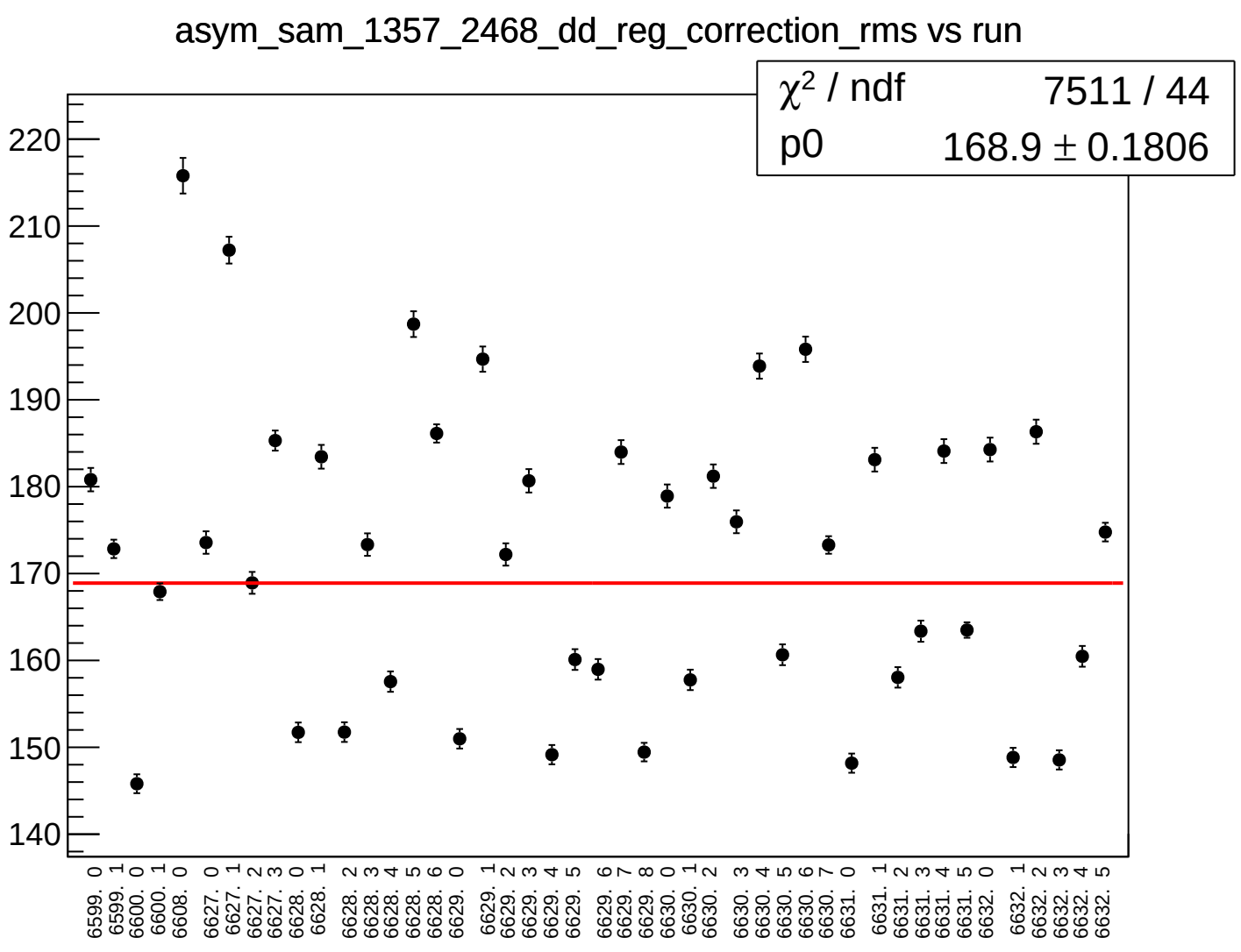
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 223.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.0109
Std Dev 0.9716
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 7511 / 44
p0 168.9 ± 0.1806
220
210
200
190
180
170
160
150
140
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
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6630. 0
6630. 1
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6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6632. 0
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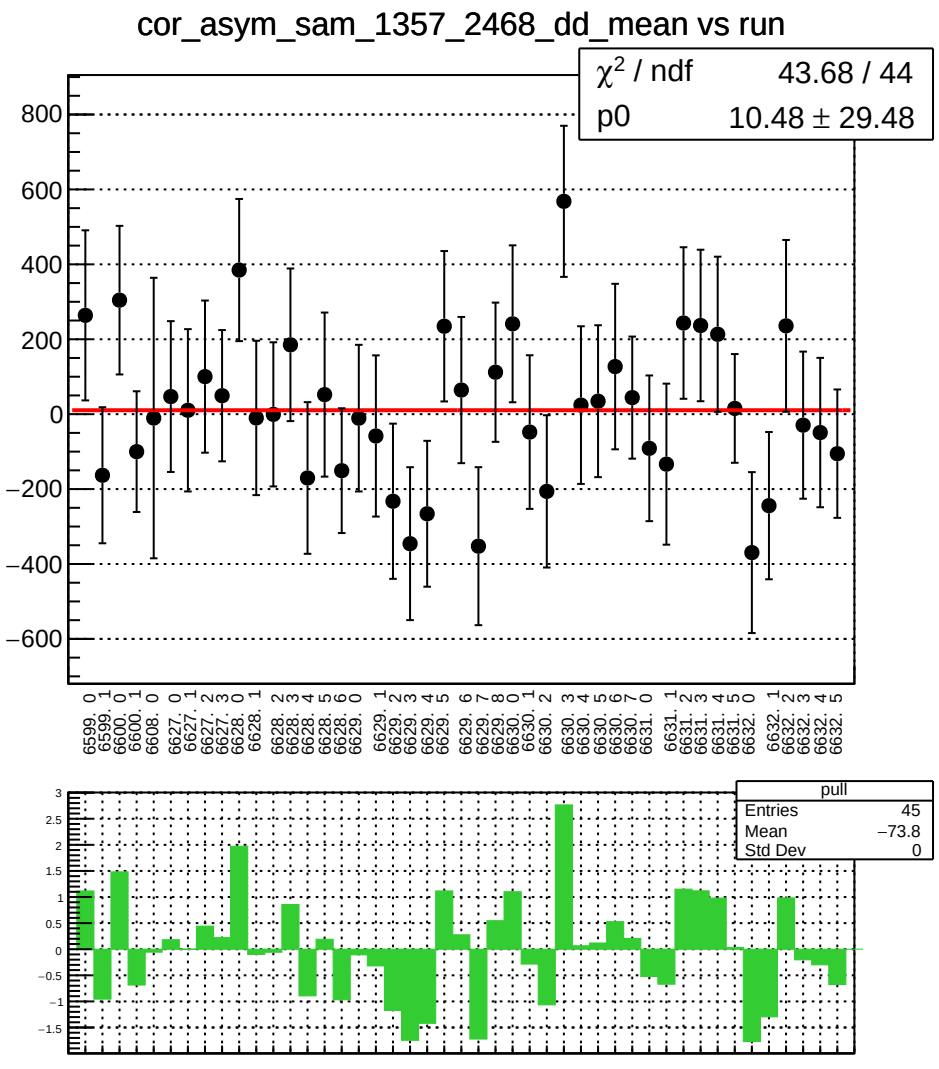
6632. 2
6632. 3
6632. 4
6632. 5


cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 43.68 / 44
p0 10.48 ± 29.48
800
600
400
200
0
−200
−400
−600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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6630. 0
6630. 1
6630. 2
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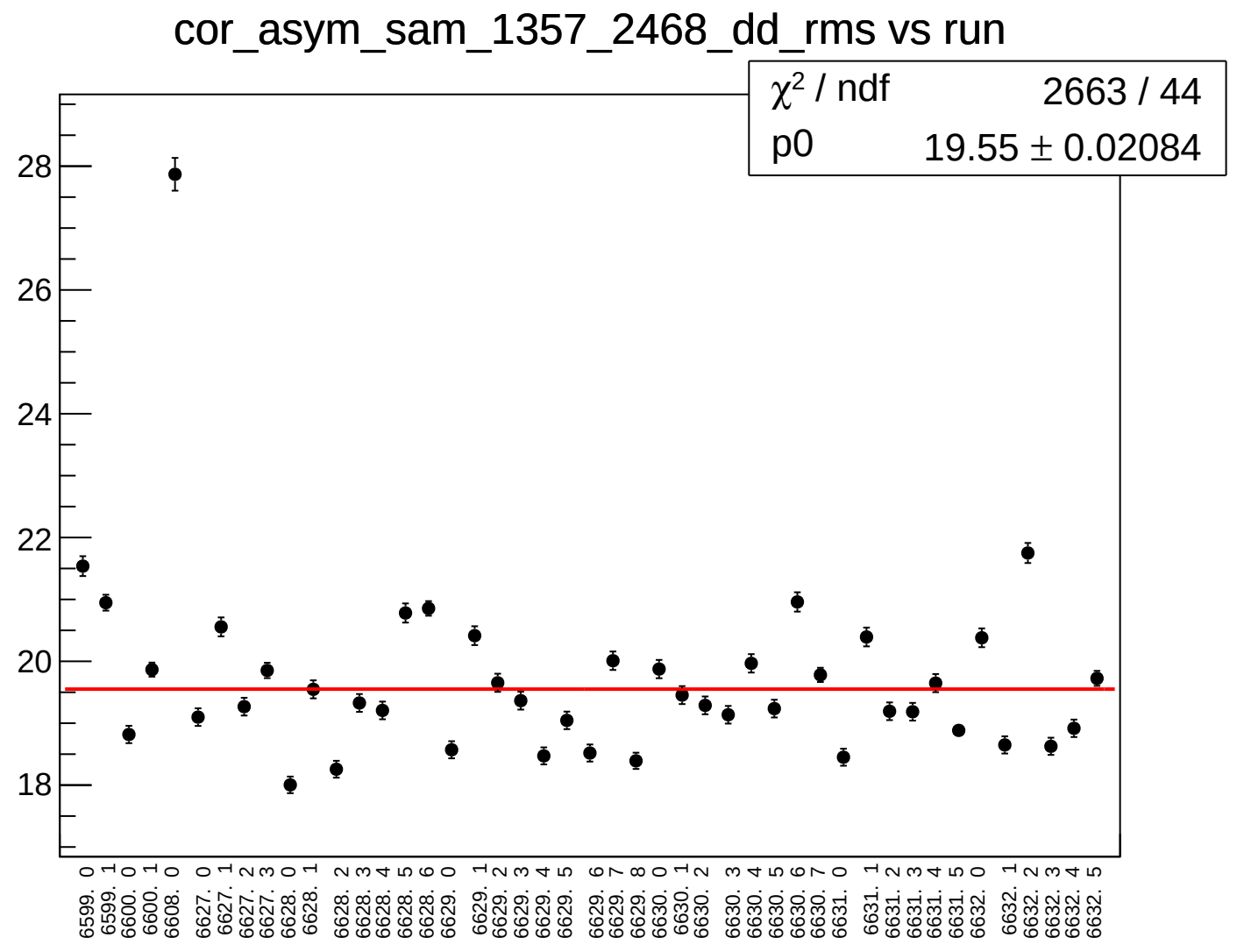
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −73.8
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.01037
Std Dev 0.9852
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2663 / 44
p0 19.55 ± 0.02084
28
26
24
22
20
18
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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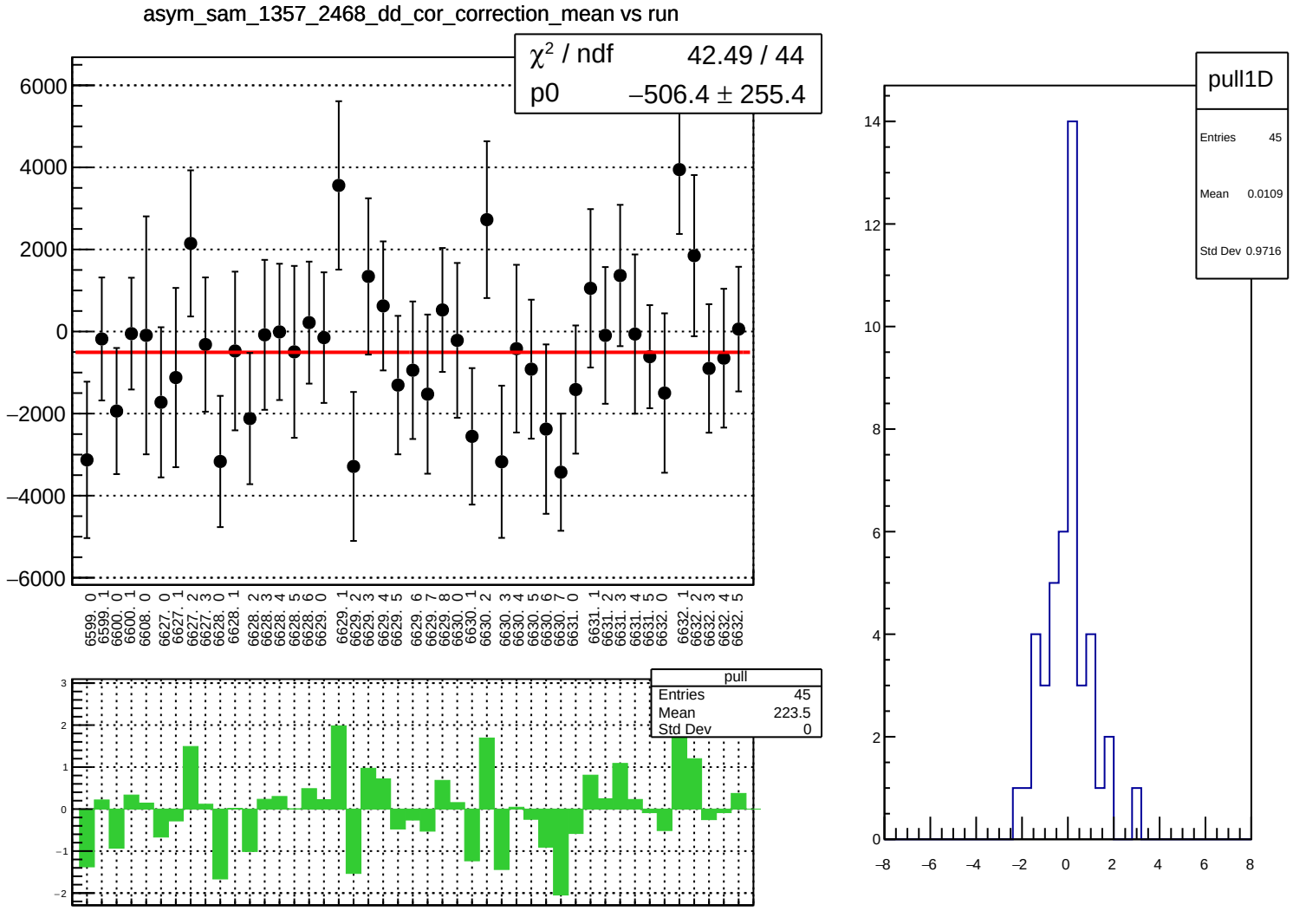
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 42.49 / 44
p0 −506.4 ± 255.4
6000
4000
2000
0
−2000
−4000
−6000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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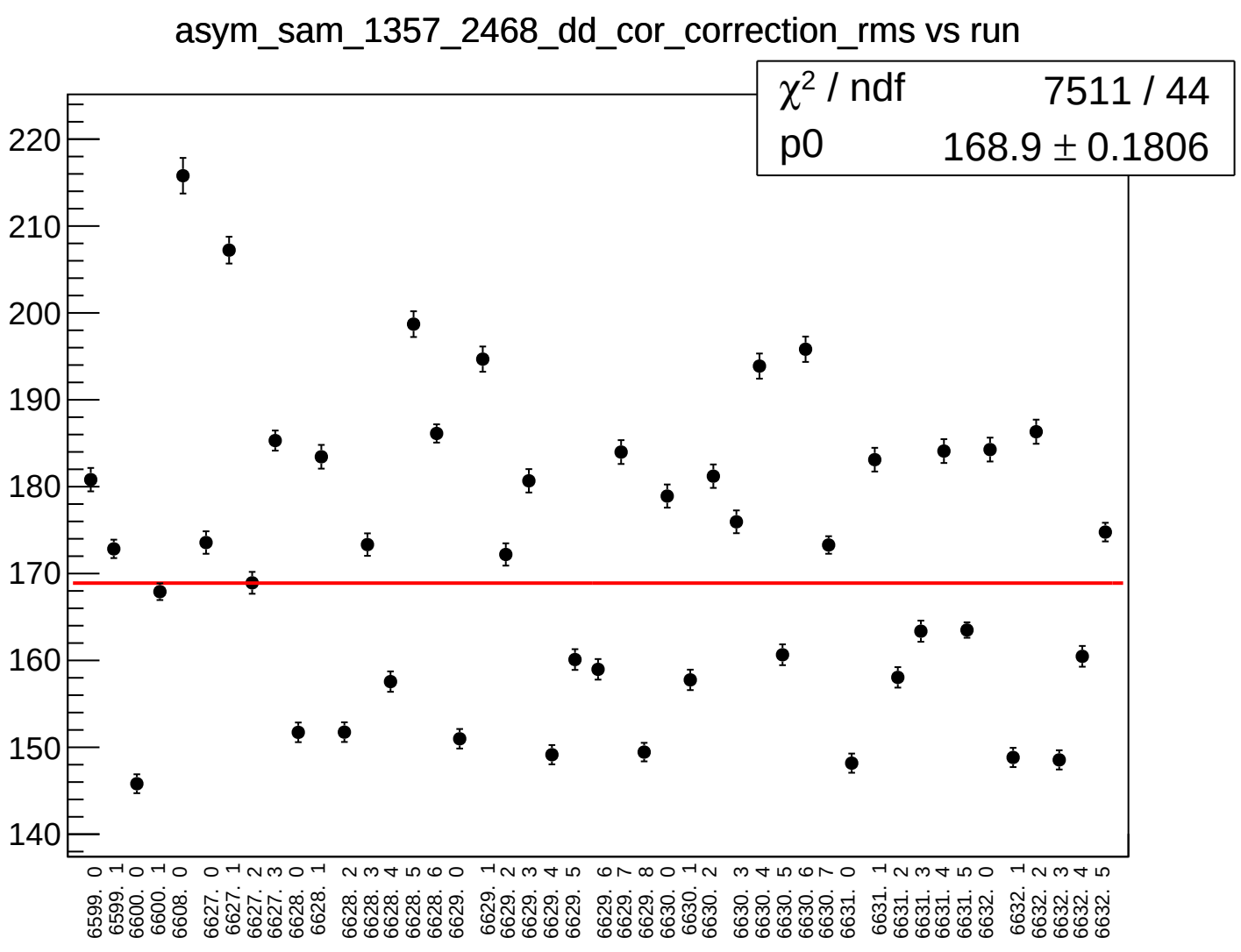
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 223.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.0109
Std Dev 0.9716
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 7511 / 44
p0 168.9 ± 0.1806
220
210
200
190
180
170
160
150
140
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6632. 4
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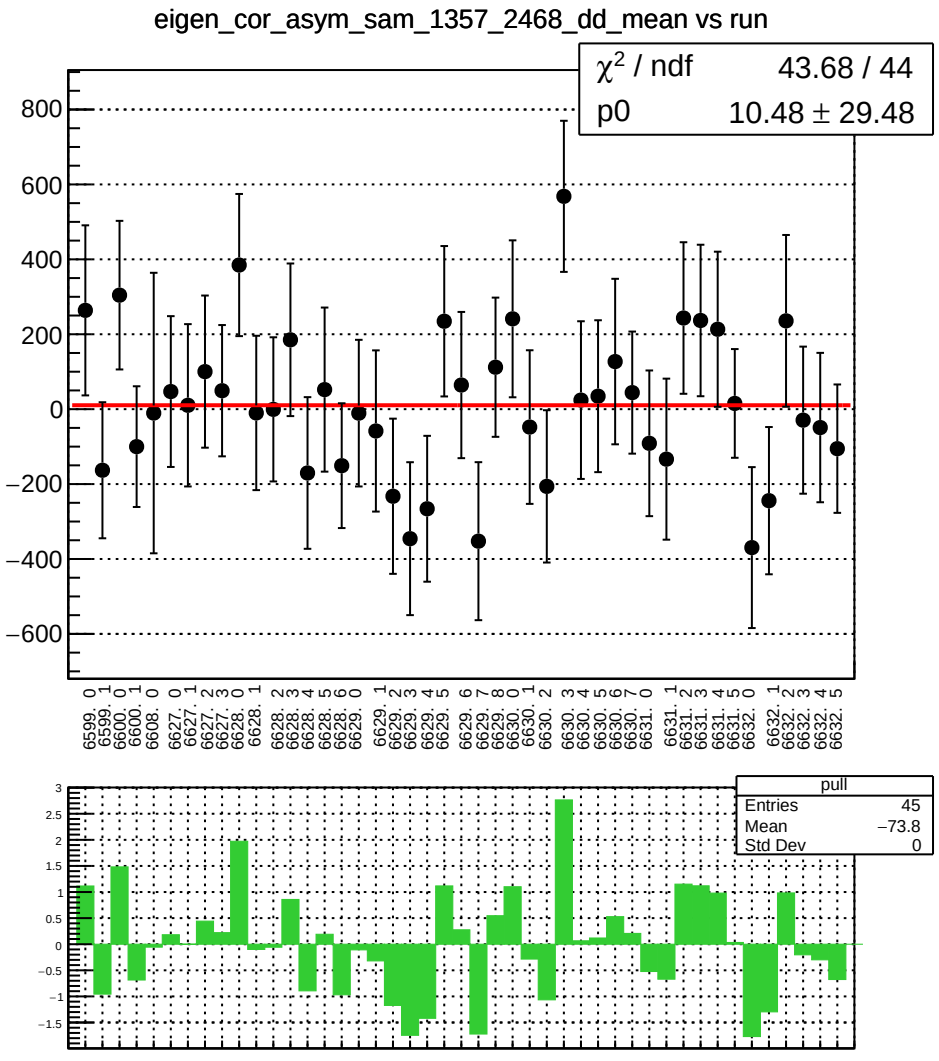
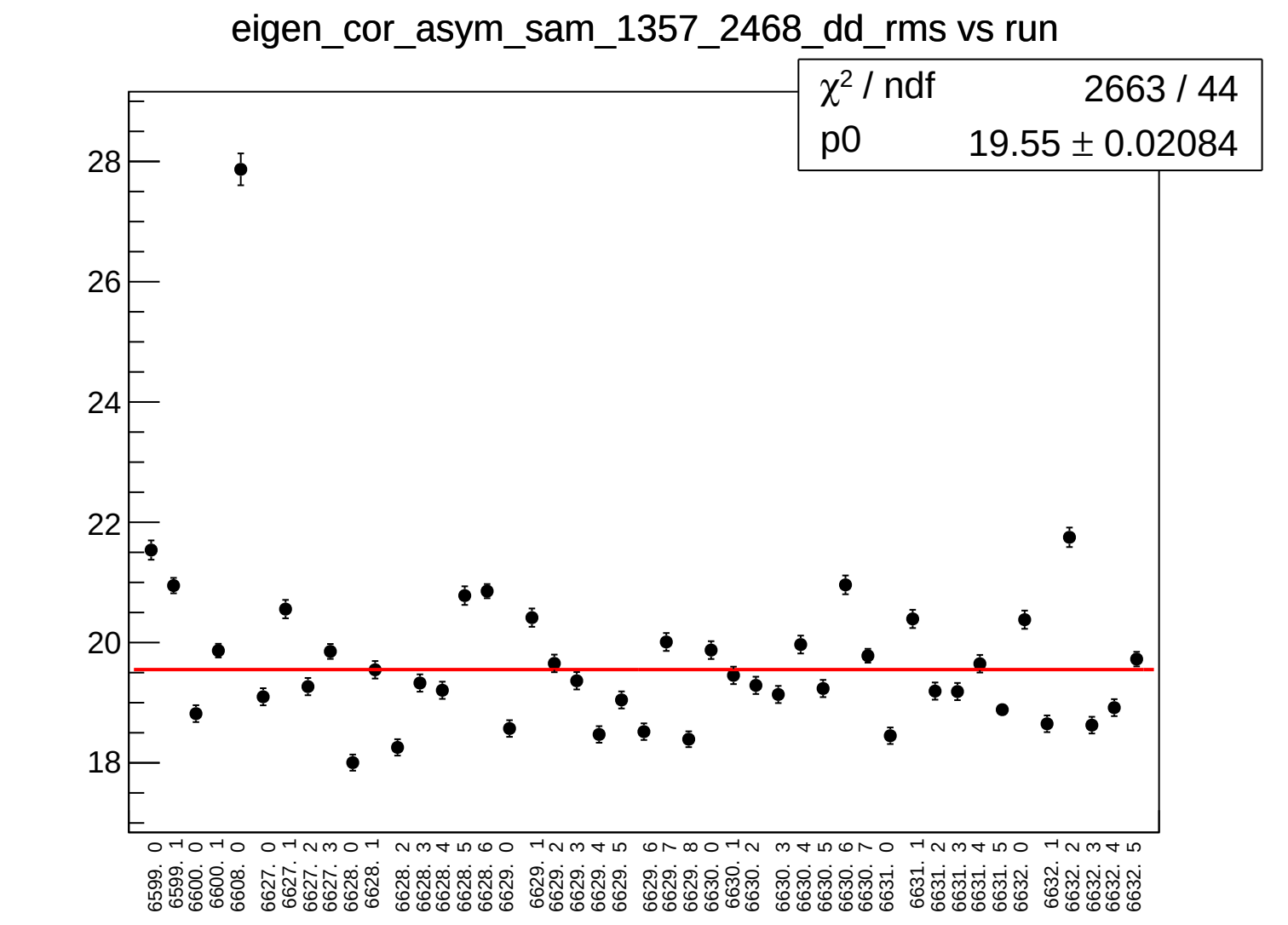

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 43.68 / 44
p0 10.48 ± 29.48
pull
Entries 45
Mean −73.8
Std Dev 0
pull1D
Entries 45
Mean 0.01037
Std Dev 0.9852


eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2663 / 44
p0 19.55 ± 0.02084
28
26
24
22
20
18
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
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6631. 1
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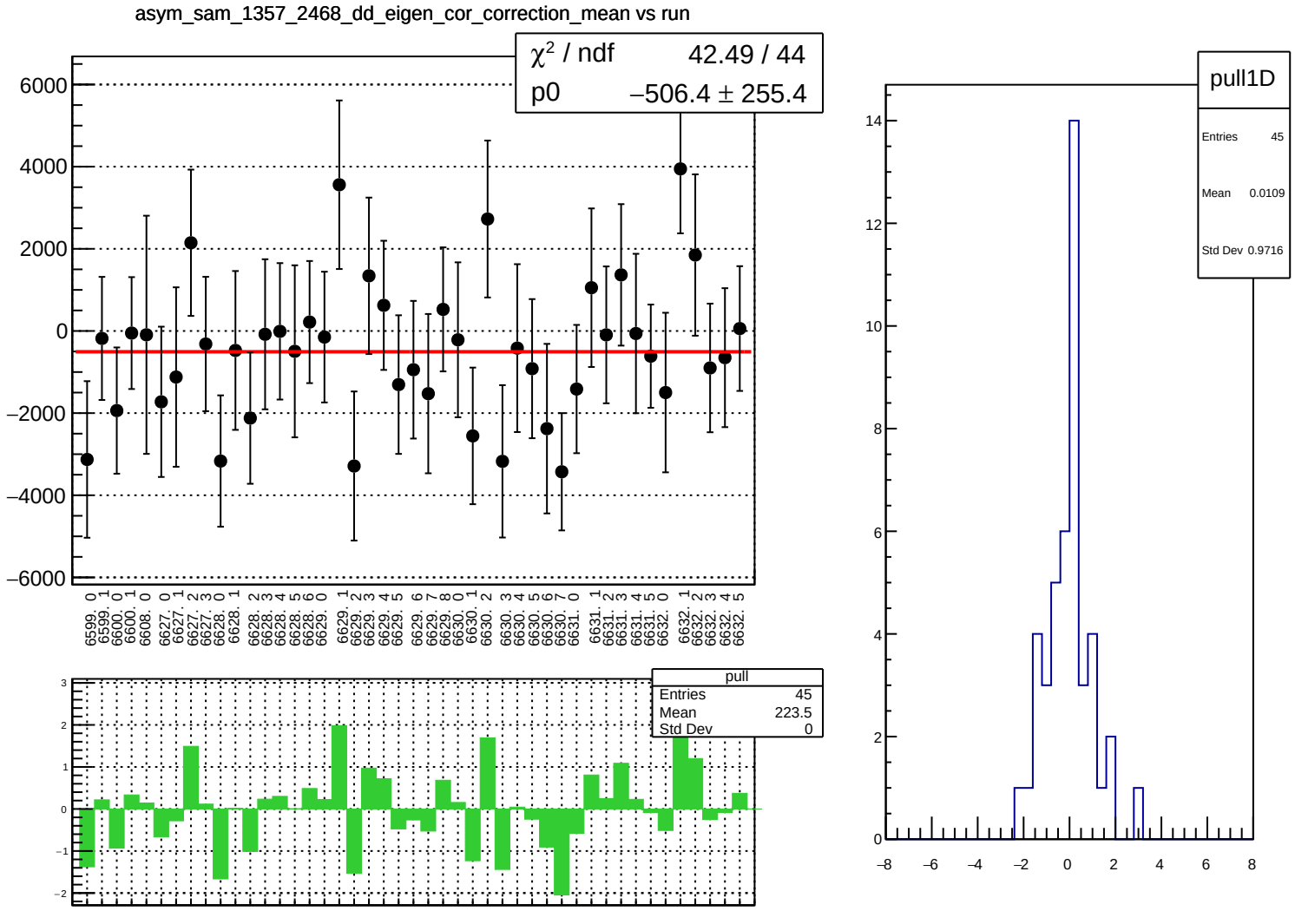
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 42.49 / 44
p0 −506.4 ± 255.4
6000
4000
2000
0
−2000
−4000
−6000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
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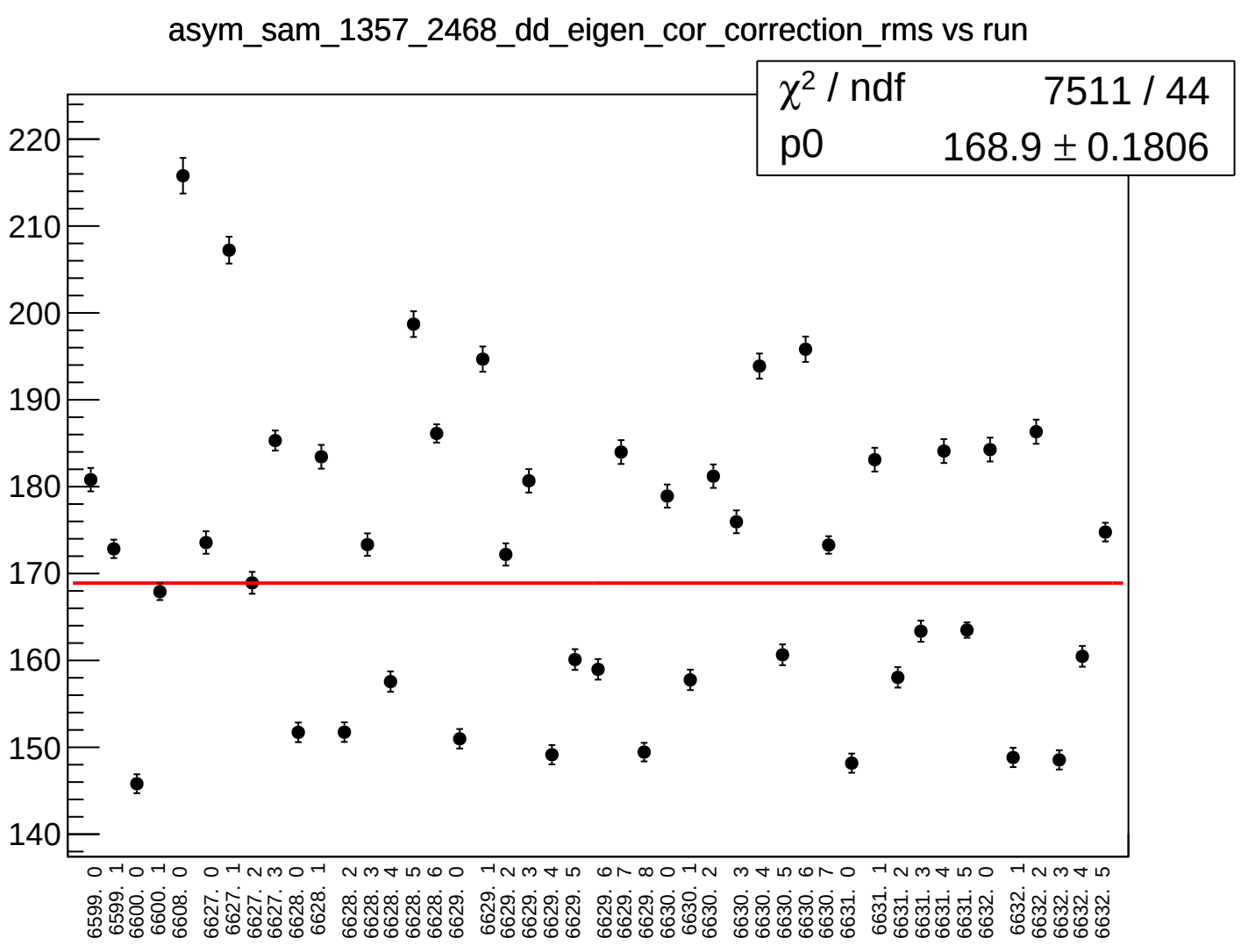
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 223.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.0109
Std Dev 0.9716
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 7511 / 44
p0 168.9 ± 0.1806
220
210
200
190
180
170
160
150
140
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
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6632. 0
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6632. 2
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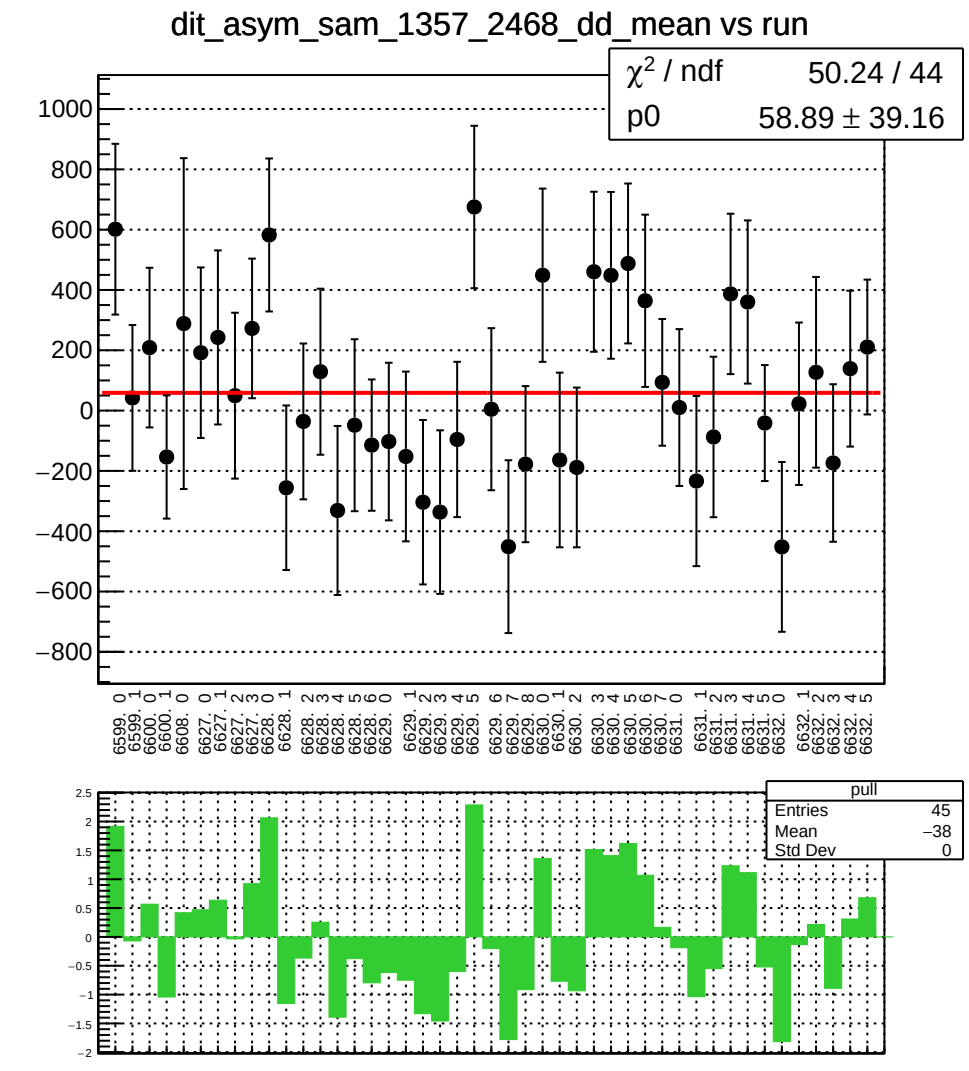
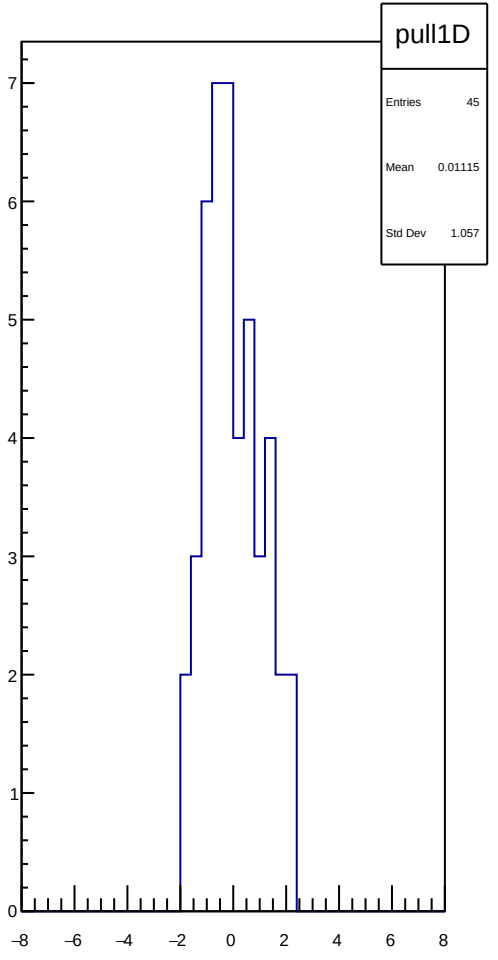
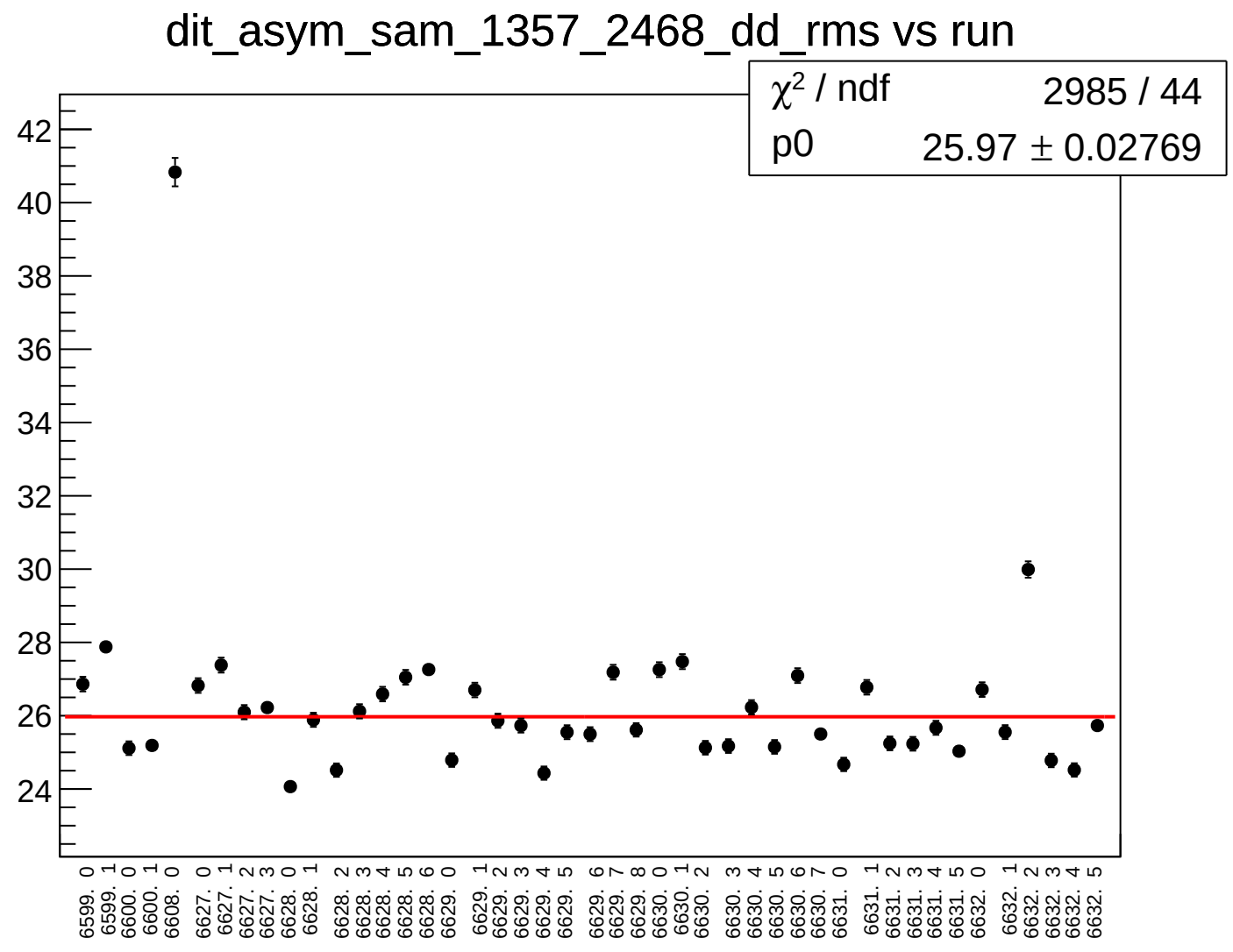
6632. 4
6632. 5


dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 50.24 / 44
p0 58.89 ± 39.16
1000
800
600
400
200
0
−200
−400
−600
−800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −38
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.01115
Std Dev 1.057
7
6
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 2985 / 44
p0 25.97 ± 0.02769
42
40
38
36
34
32
30
28
26
24
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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6631. 4
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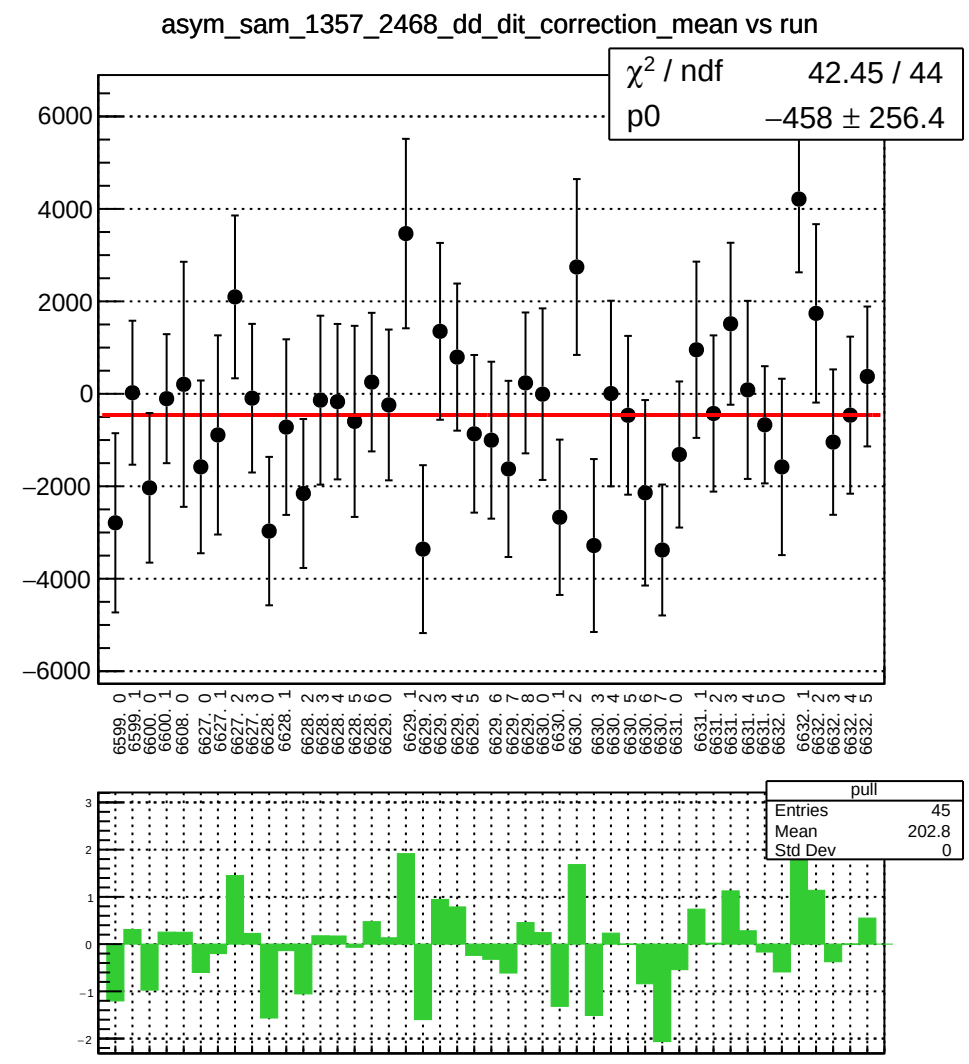
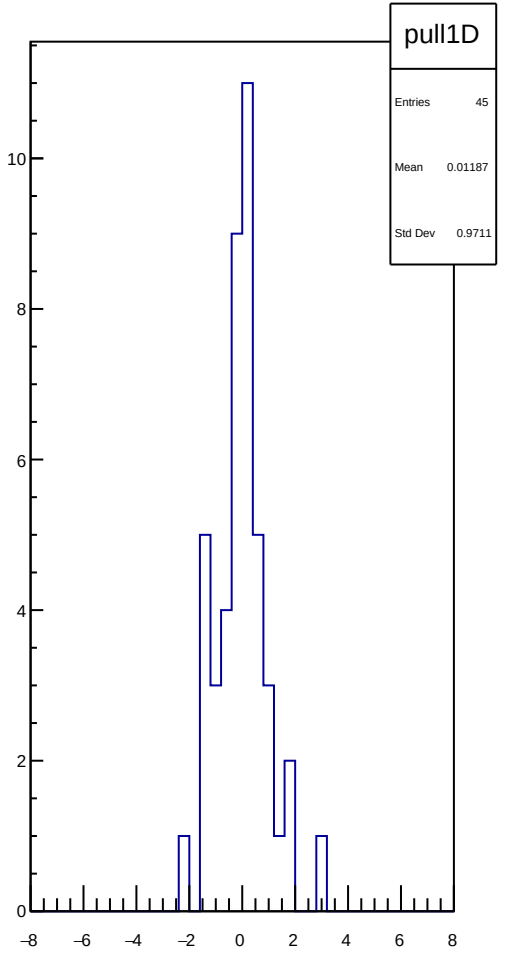
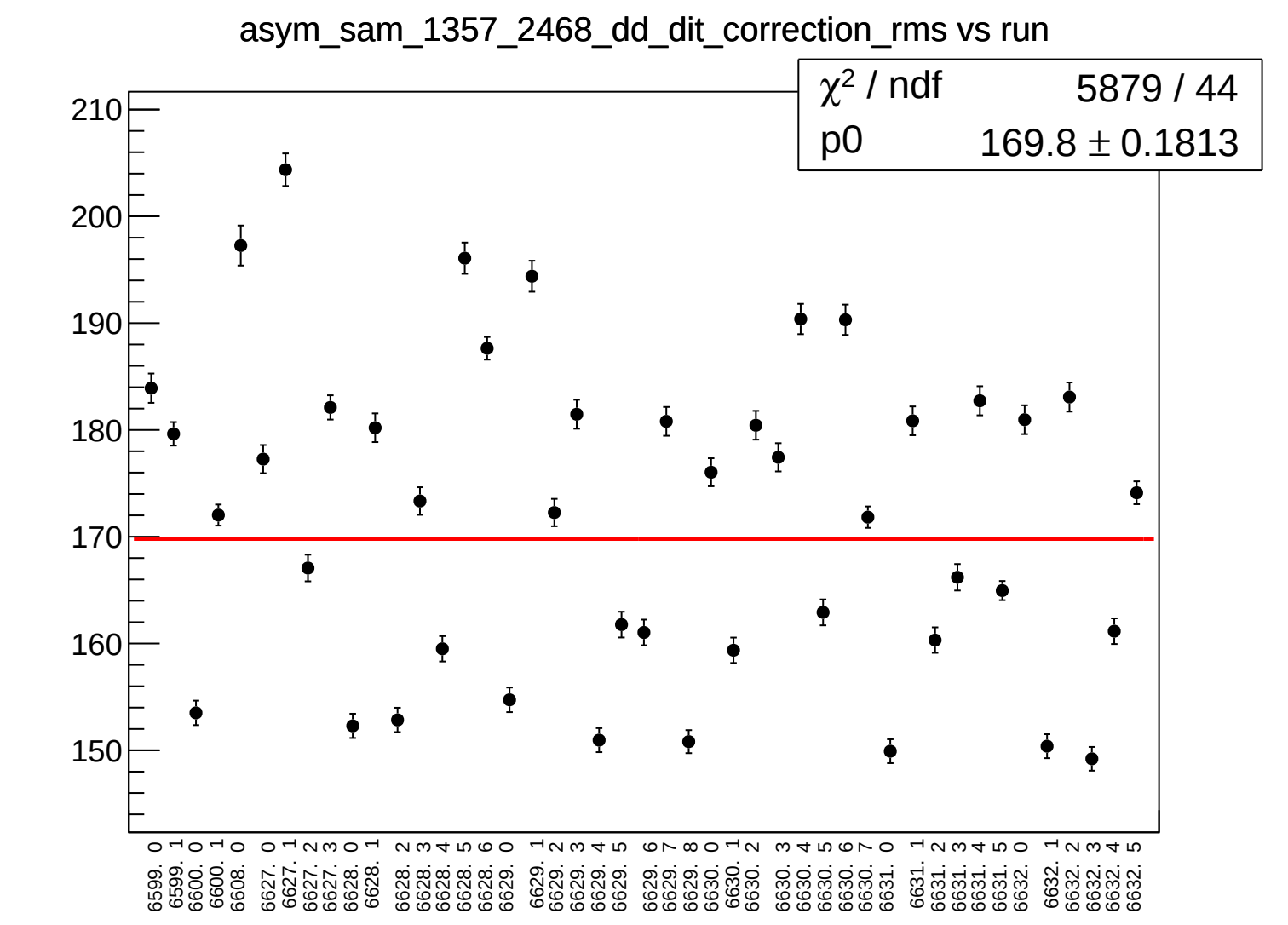
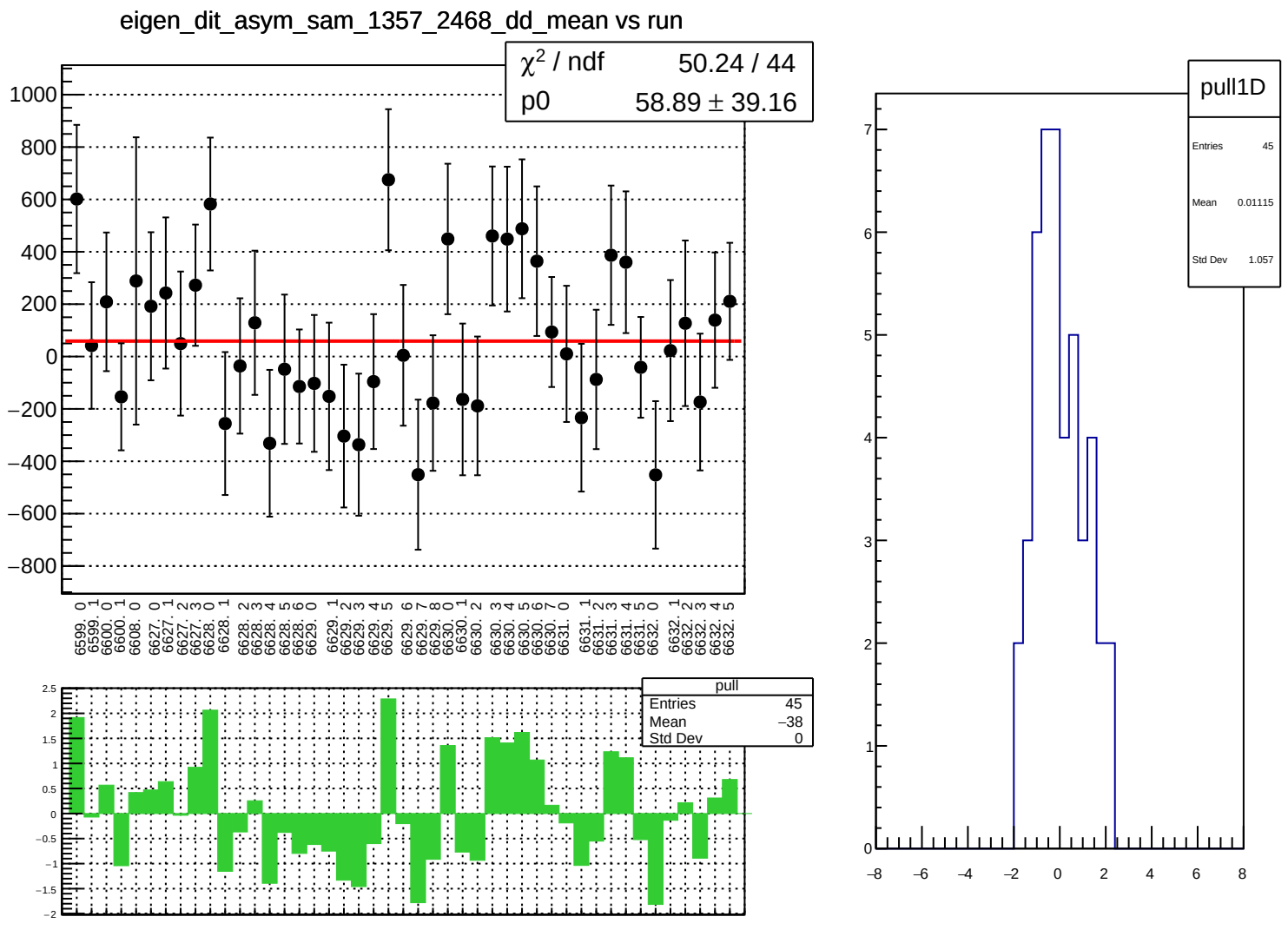
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 42.45 / 44
p0 −458 ± 256.4
6000
4000
2000
0
−2000
−4000
−6000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 202.8
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.01187
Std Dev 0.9711
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 5879 / 44
p0 169.8 ± 0.1813
210
200
190
180
170
160
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 50.24 / 44
p0 58.89 ± 39.16
1000
800
600
400
200
0
−200
−400
−600
−800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
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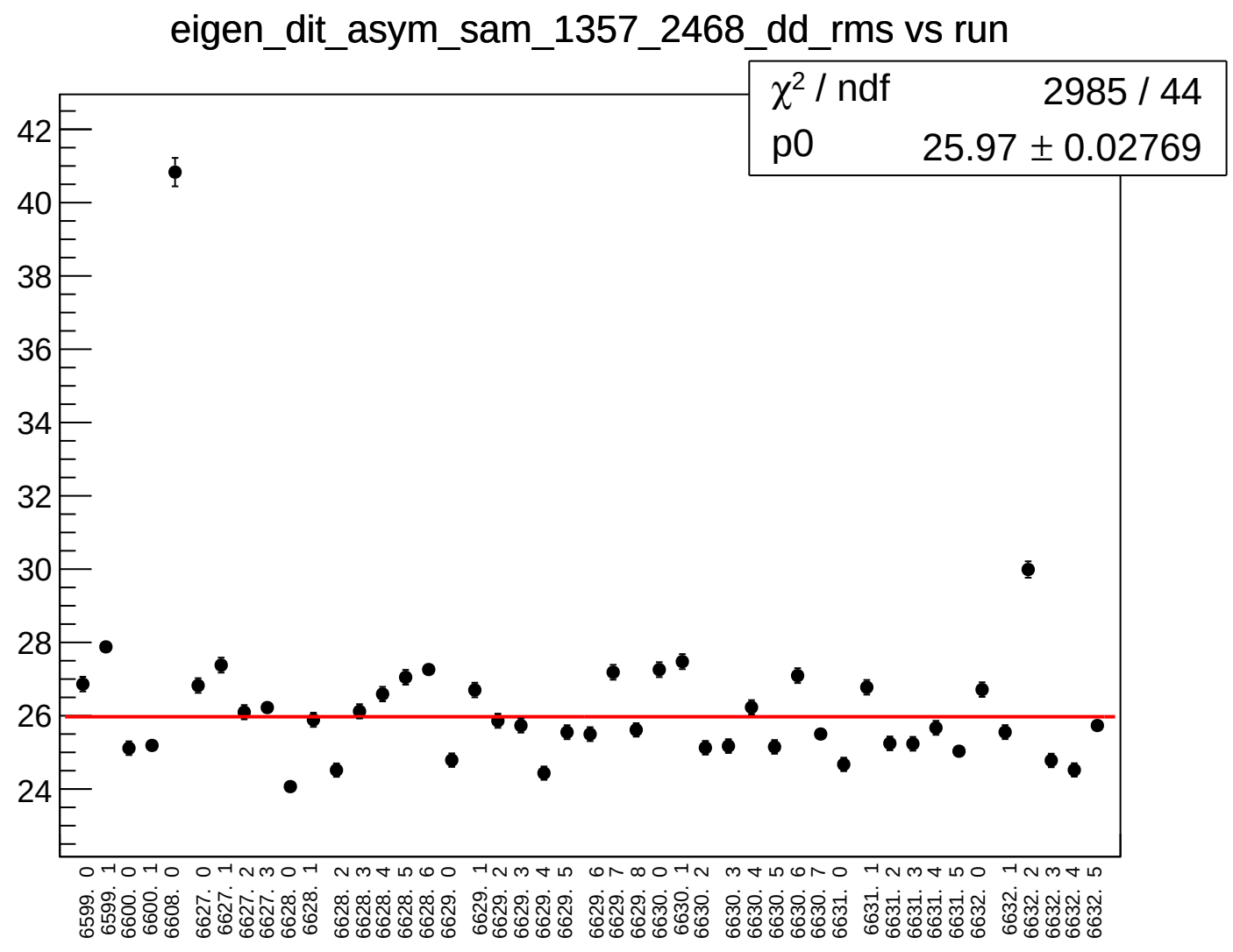
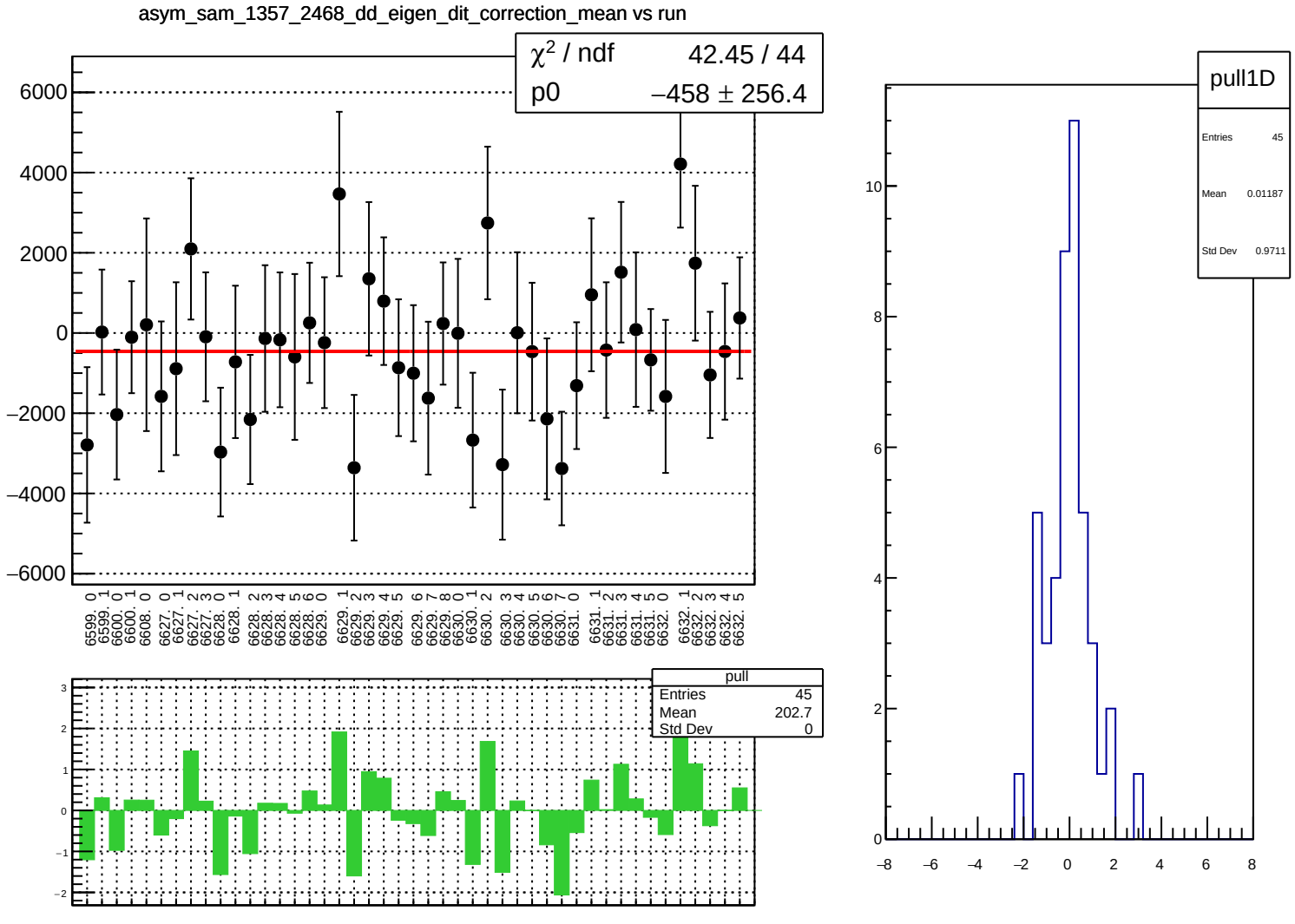
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −38
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01115
Std Dev 1.057
7
6
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 2985 / 44
p0 25.97 ± 0.02769
42
40
38
36
34
32
30
28
26
24
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 42.45 / 44
p0 −458 ± 256.4
6000
4000
2000
0
−2000
−4000
−6000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
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6628. 6
6629. 0
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6629. 2
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6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
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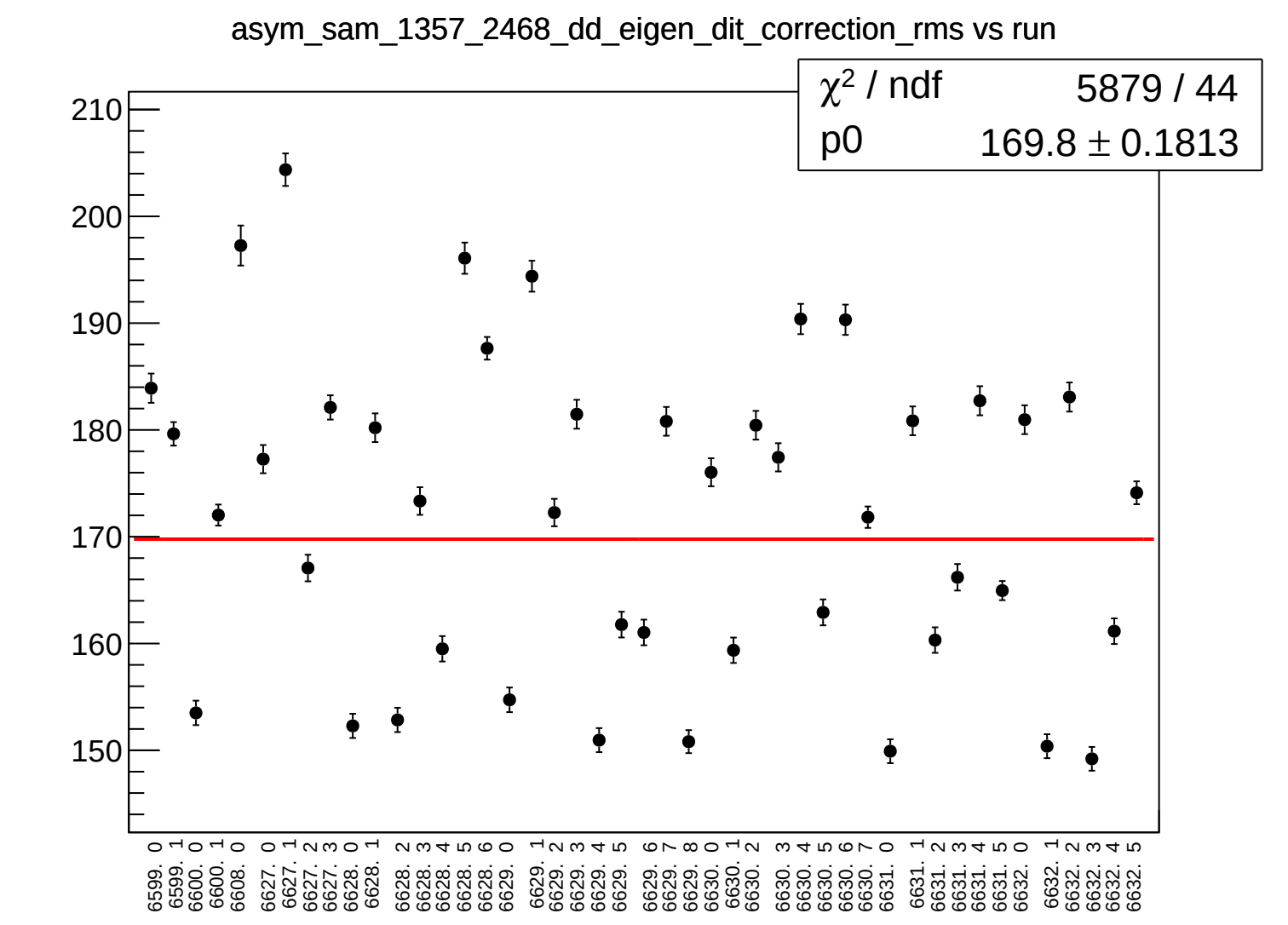
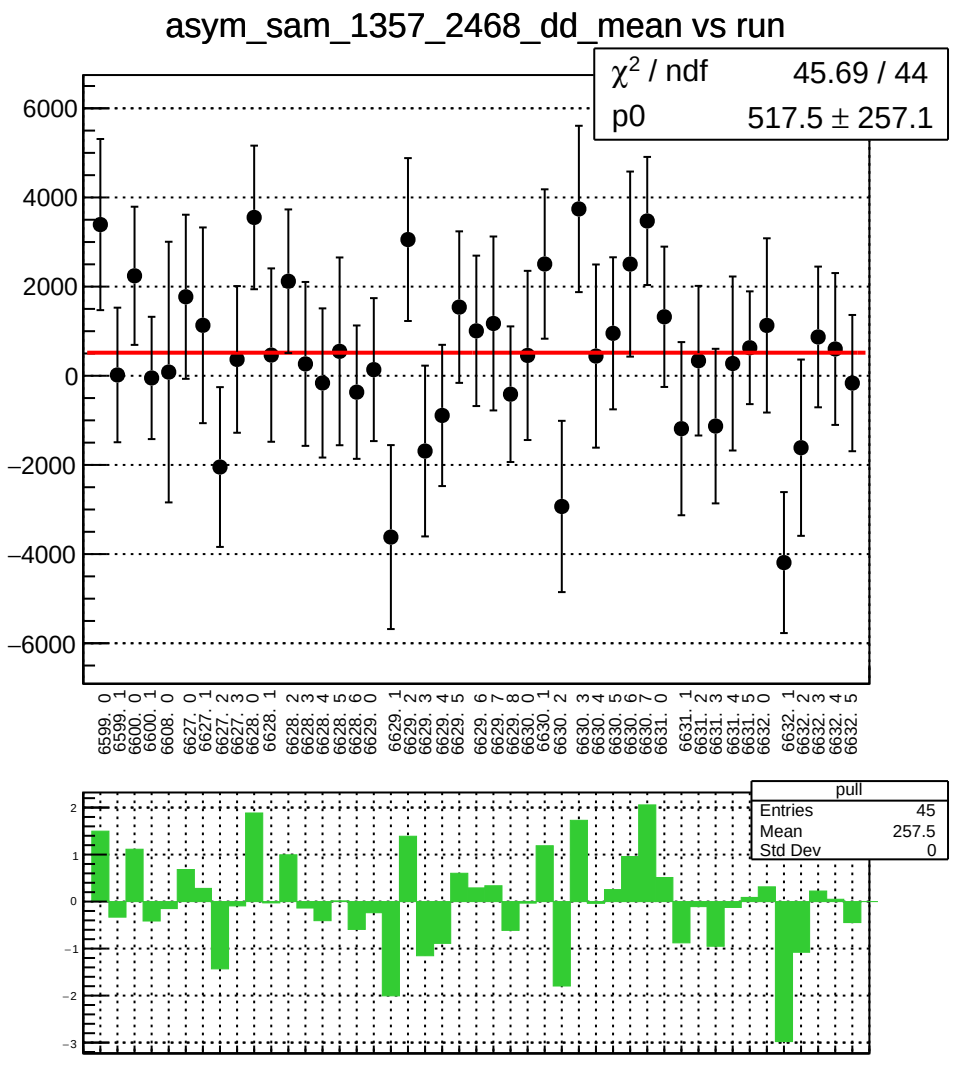
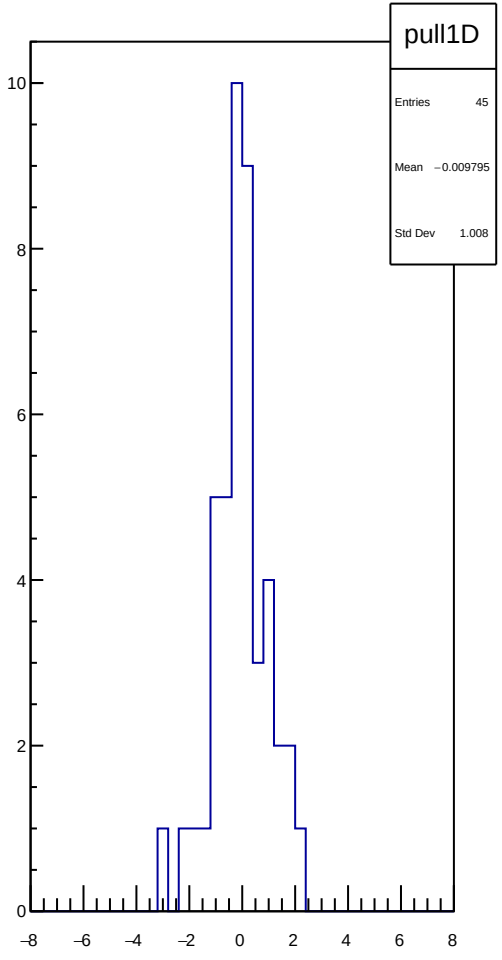
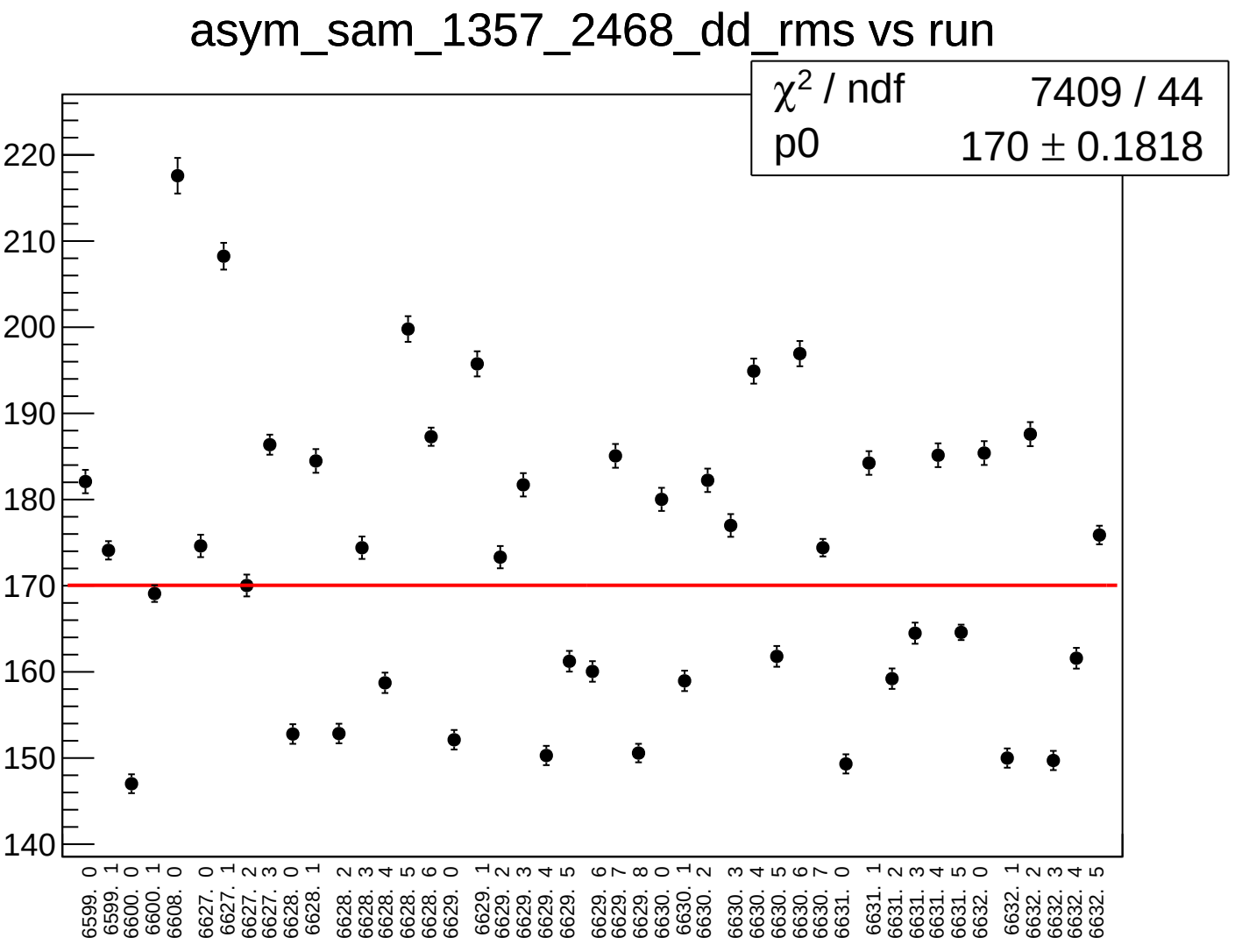
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 202.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01187
Std Dev 0.9711
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 5879 / 44
p0 169.8 ± 0.1813
210
200
190
180
170
160
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_1357_2468_dd_mean vs run
χ² / ndf 45.69 / 44
p0 517.5 ± 257.1
6000
4000
2000
0
−2000
−4000
−6000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 257.5
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean −0.009795
Std Dev 1.008
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_2468_dd_rms vs run
χ² / ndf 7409 / 44
p0 170 ± 0.1818
220
210
200
190
180
170
160
150
140
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
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6628. 6
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6629. 8
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6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
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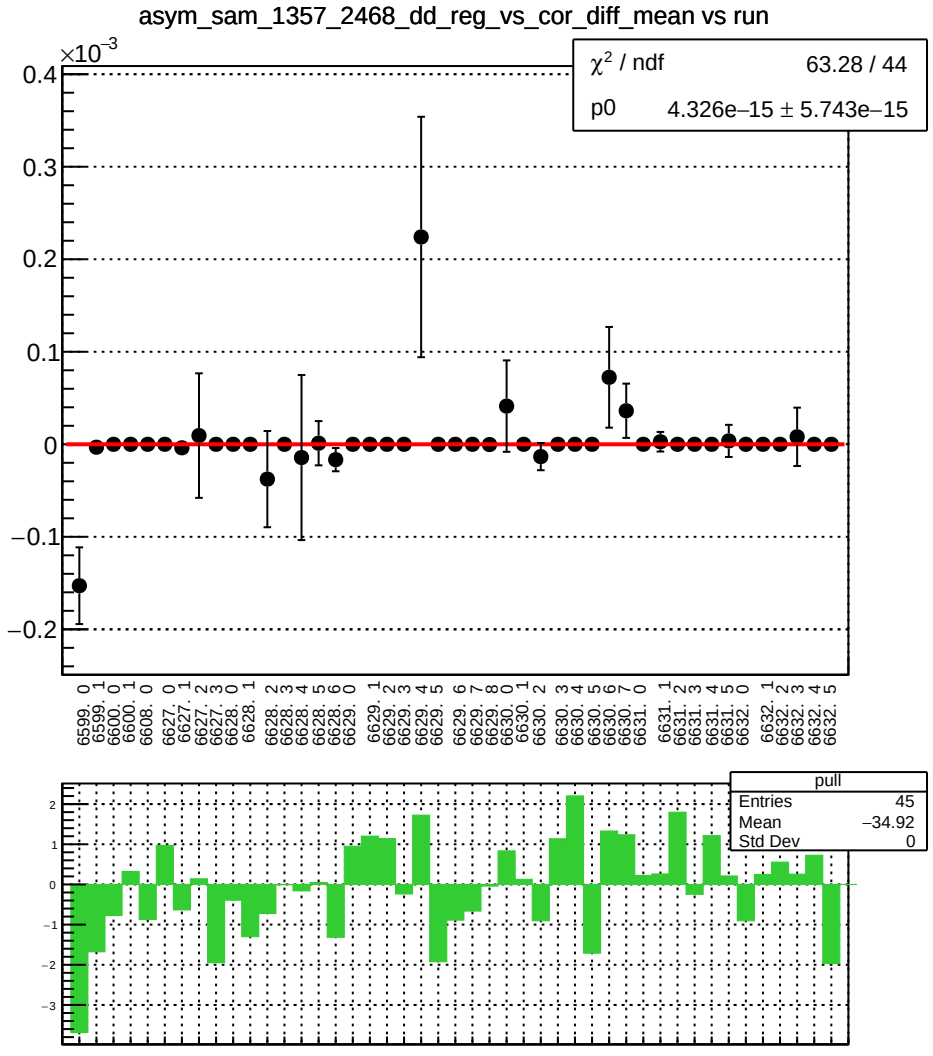
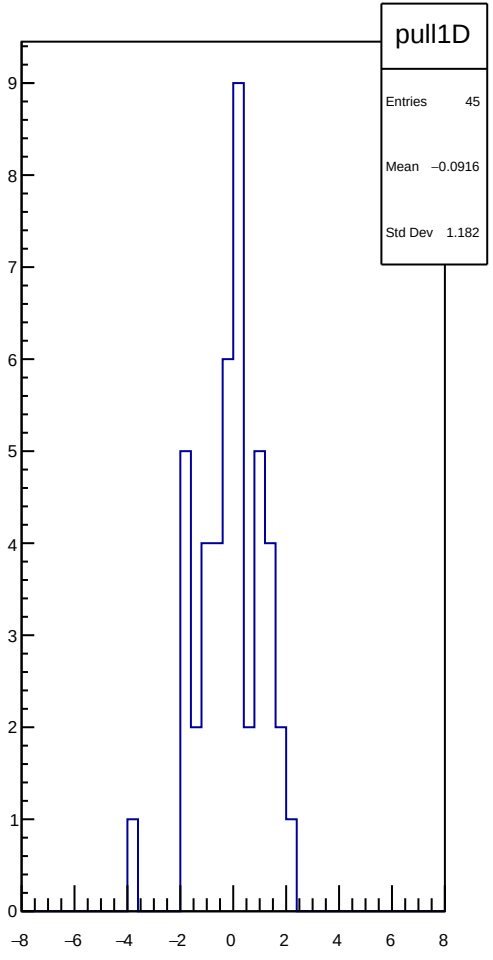
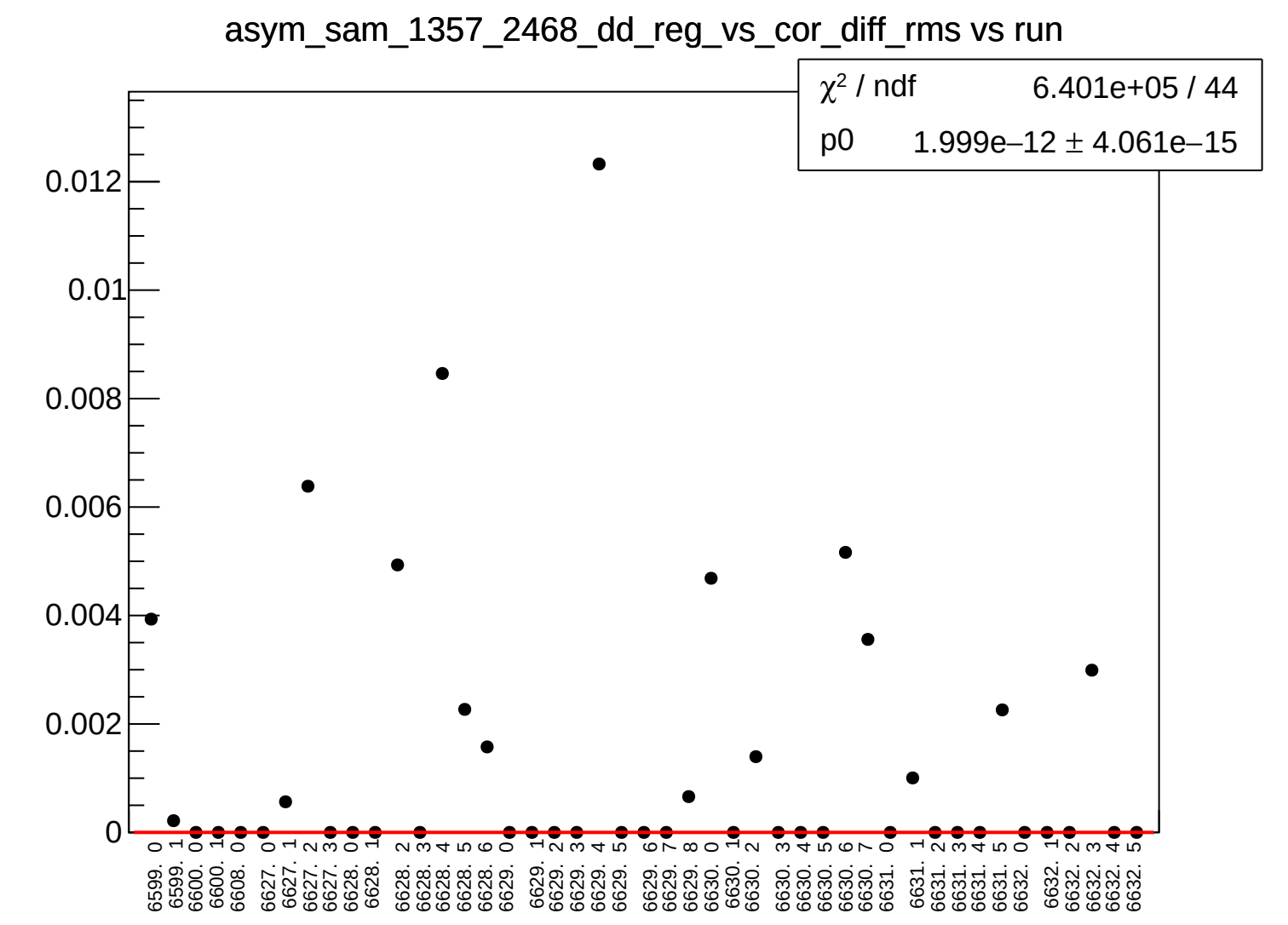
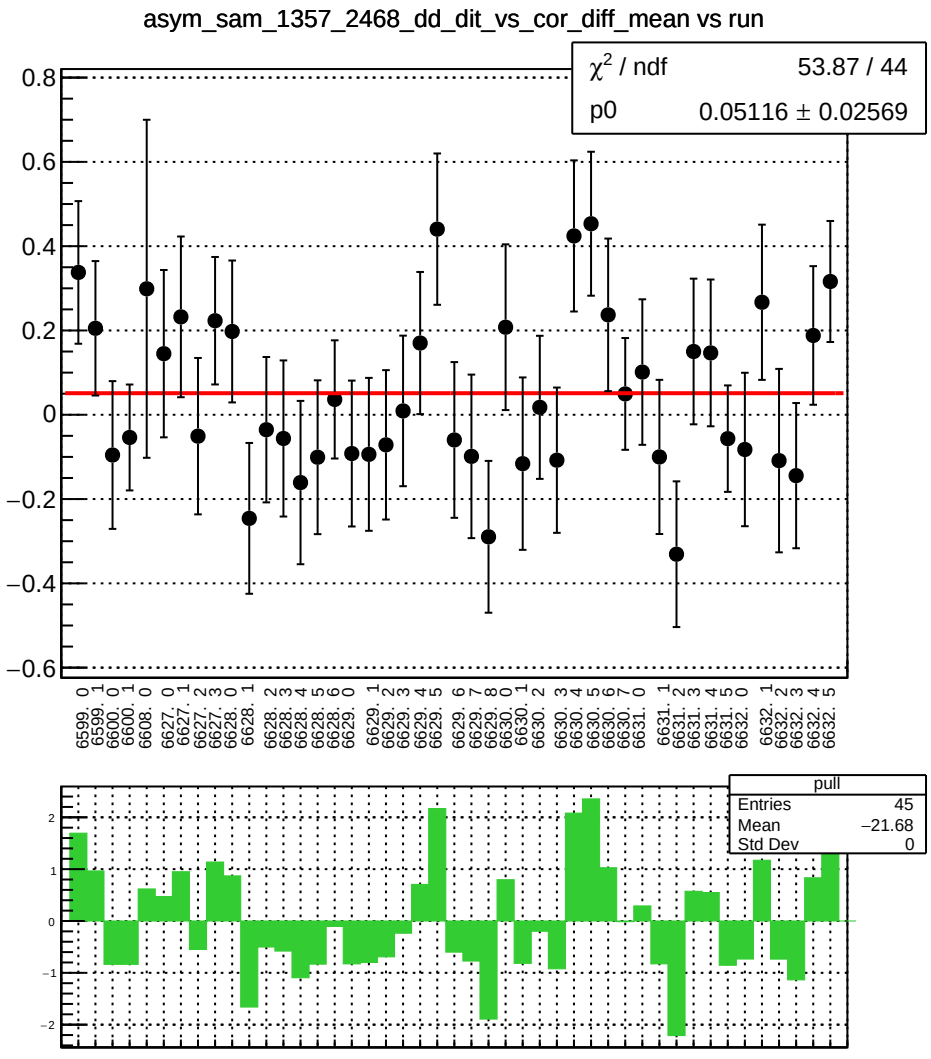
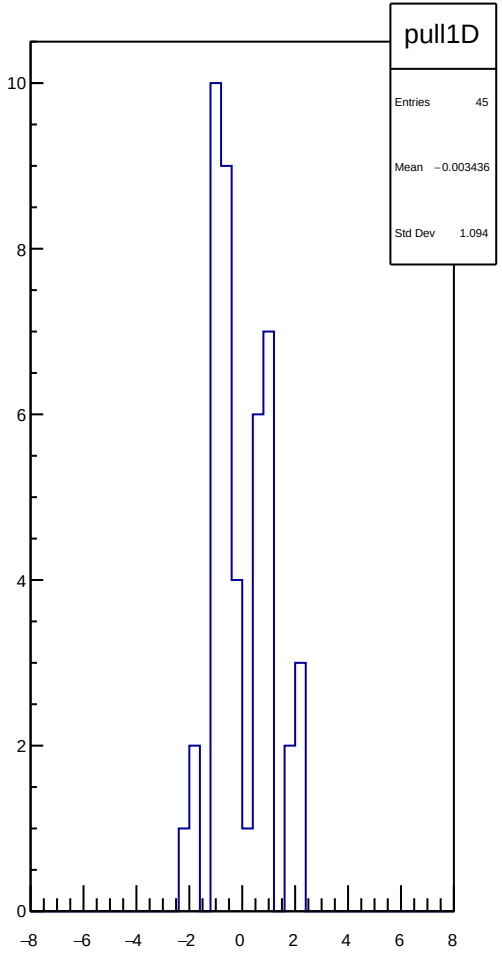
6632. 2
6632. 3
6632. 4
6632. 5

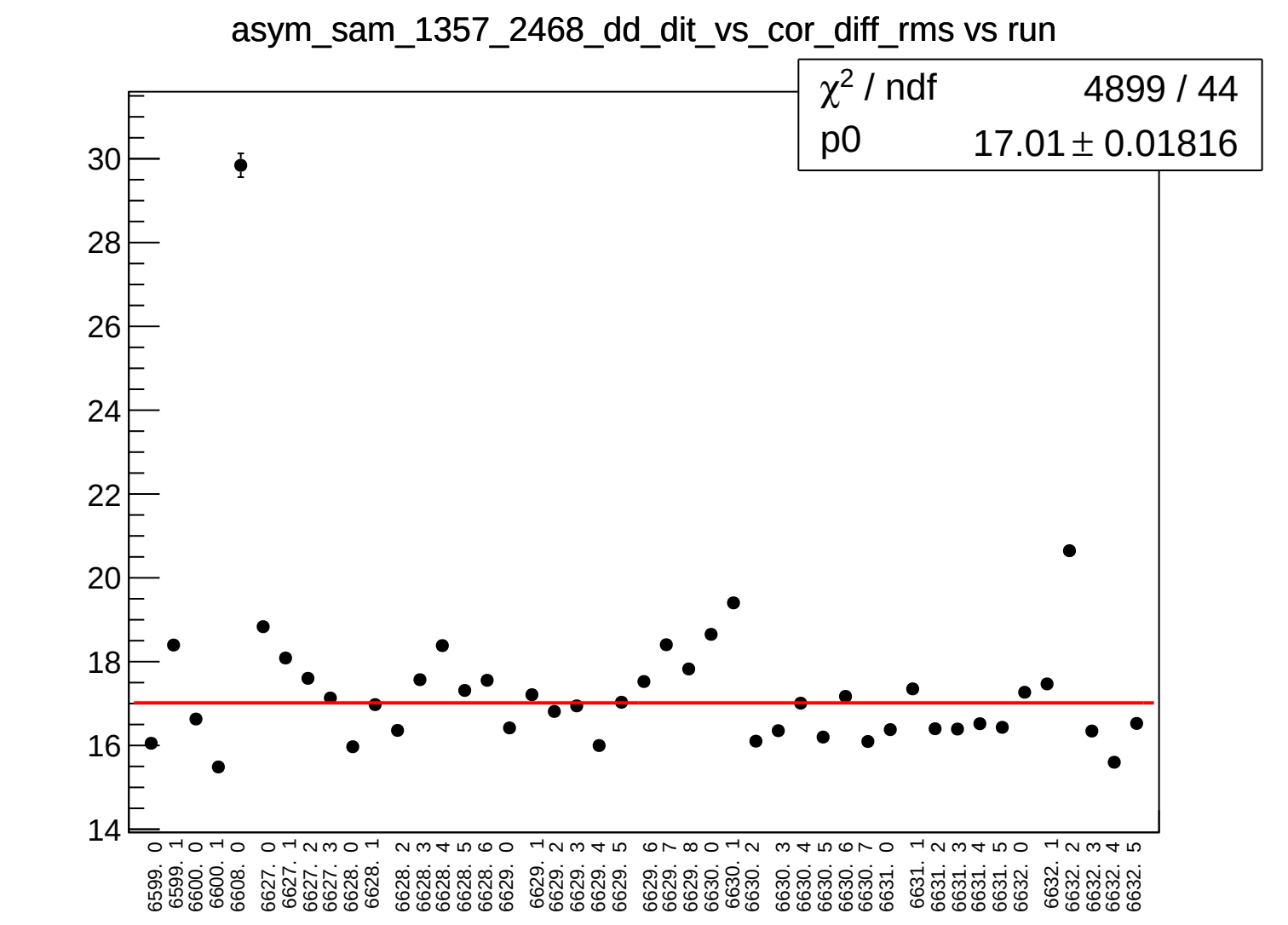

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 63.28 / 44
p0 4.326e−15 ± 5.743e−15
pull
Entries 45
Mean −34.92
Std Dev 0


pull1D
Entries 45
Mean −0.0916
Std Dev 1.182


asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.401e+05 / 44
p0 1.999e−12 ± 4.061e−15
0.012
0.01
0.008
0.006
0.004
0.002
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 53.87 / 44
p0 0.05116 ± 0.02569
pull
Entries 45
Mean −21.68
Std Dev 0


pull1D
Entries 45
Mean −0.003436
Std Dev 1.094


asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4899 / 44
p0 17.01 ± 0.01816
30
28
26
24
22
20
18
16
14
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
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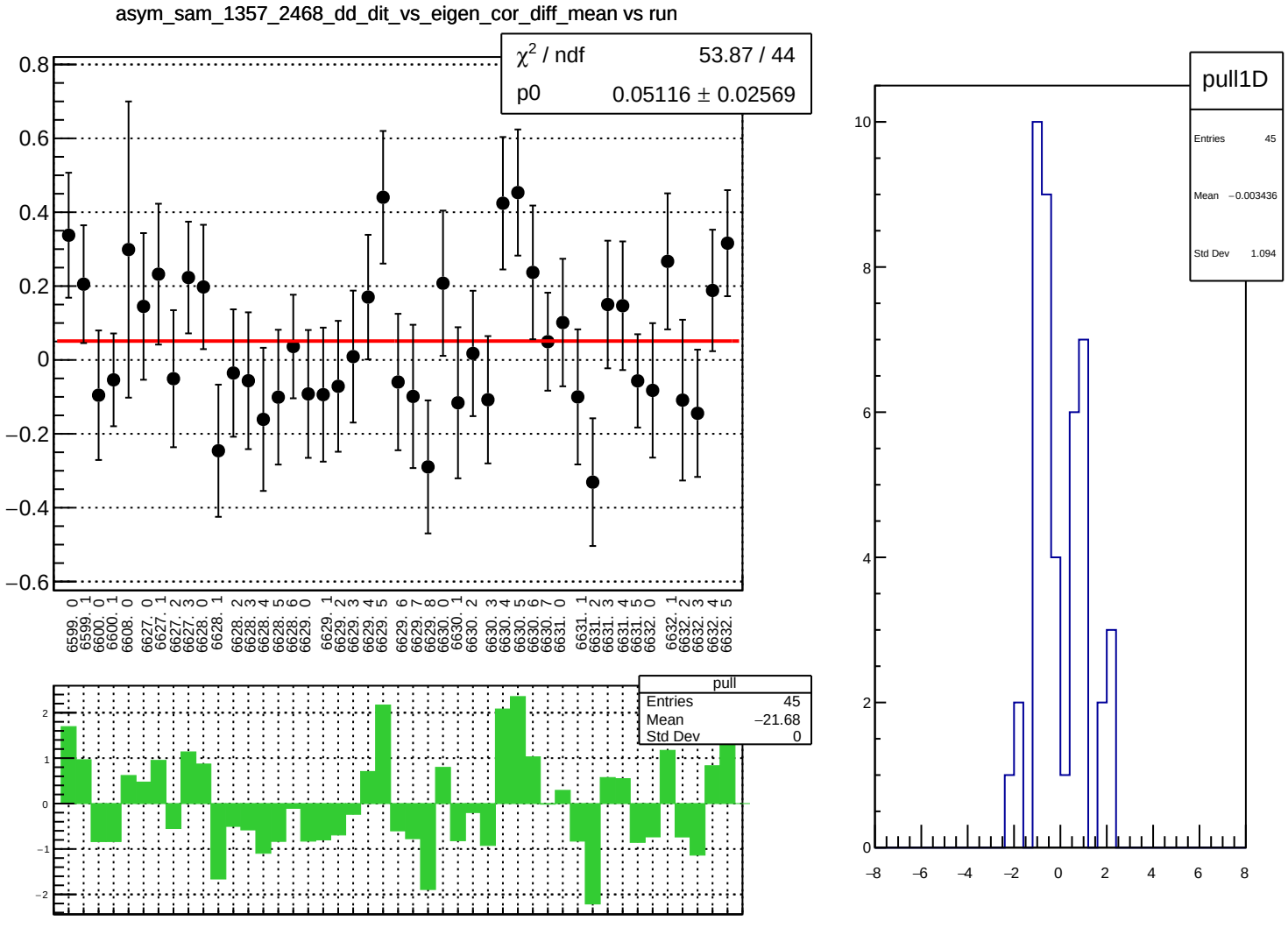
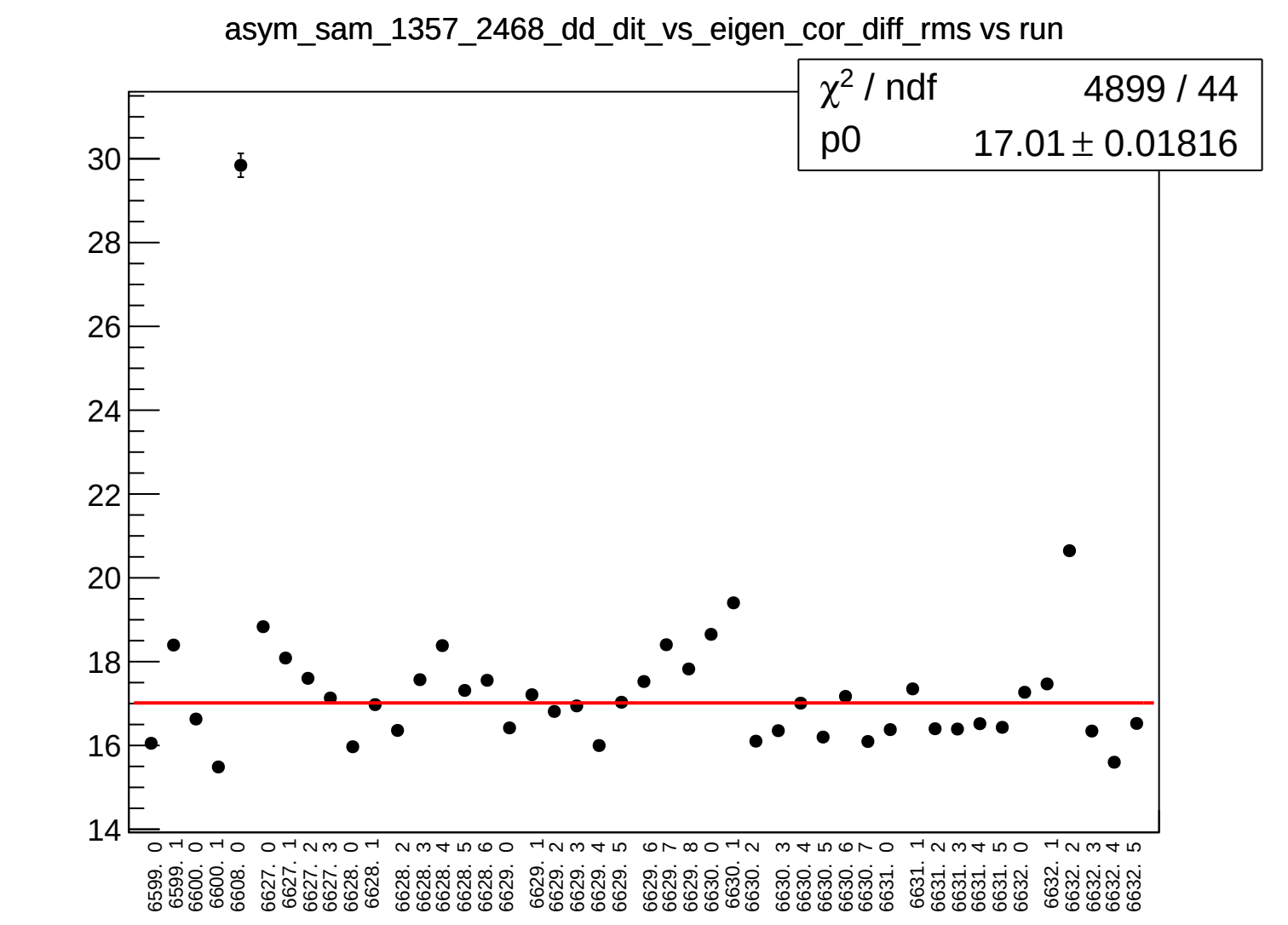
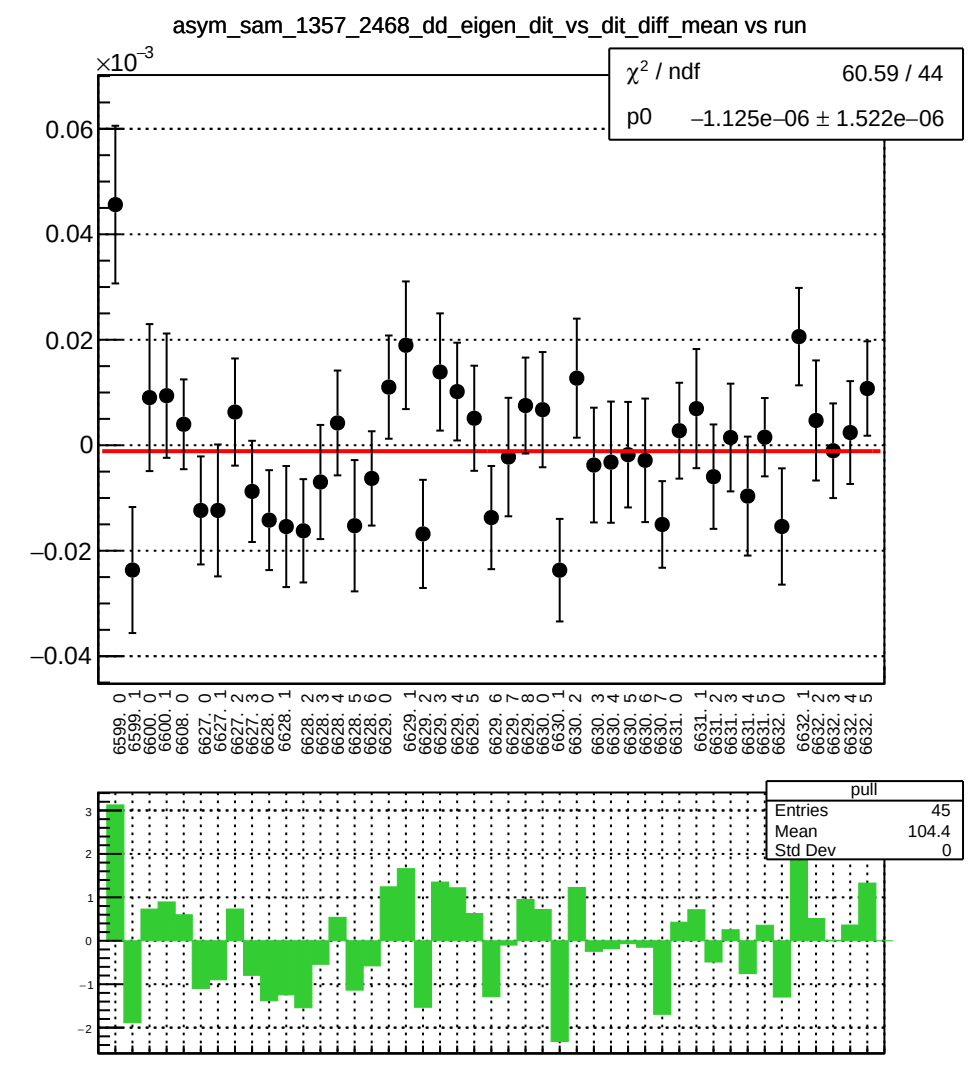
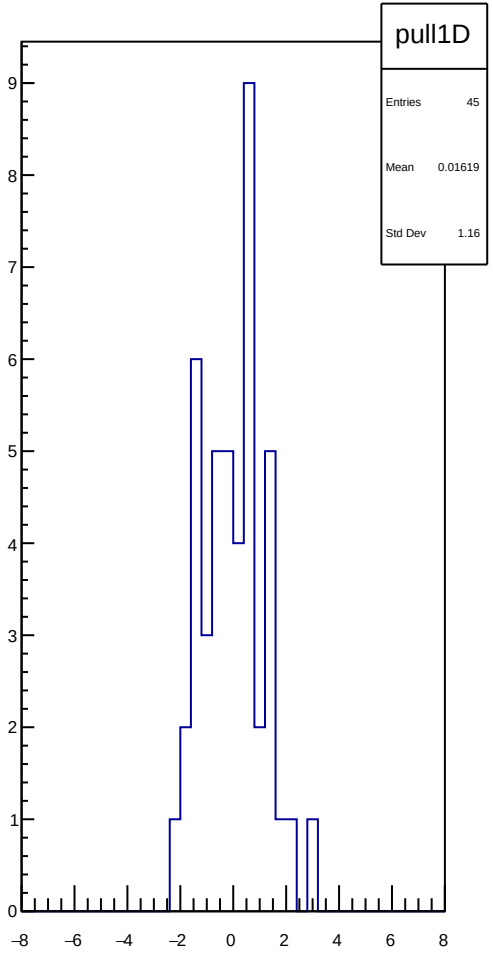
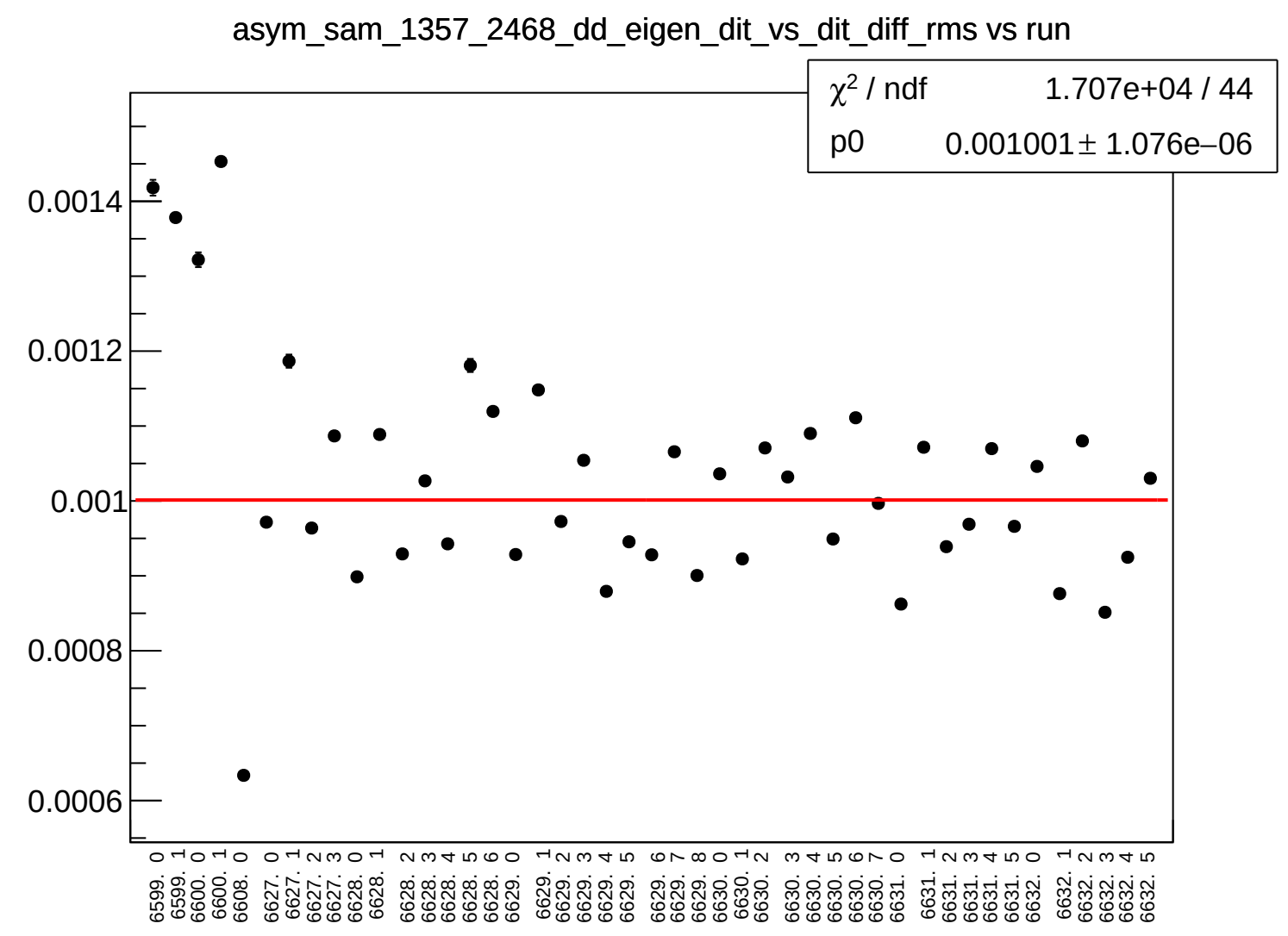
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

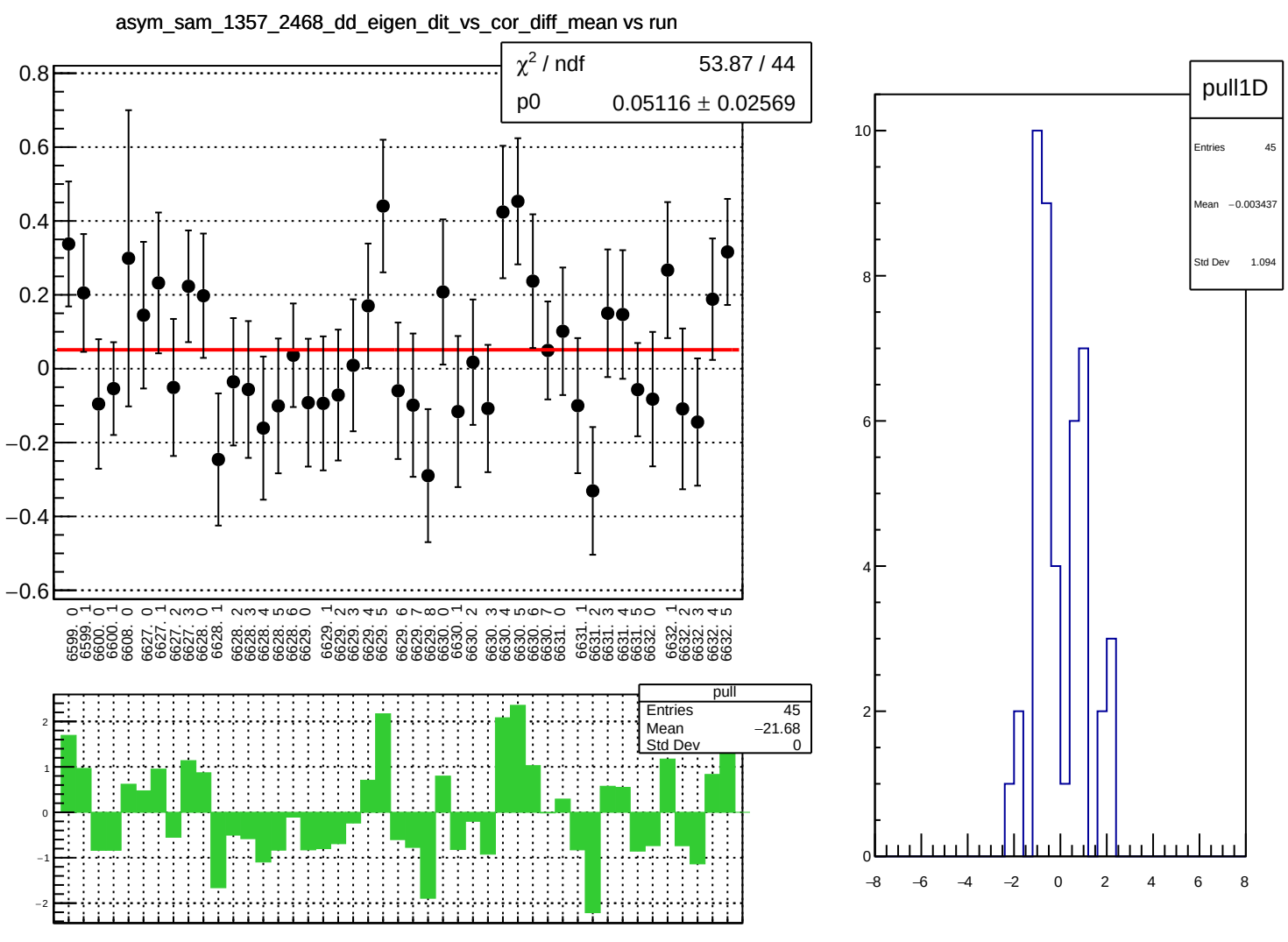

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 53.87 / 44
p0 0.05116 ± 0.02569
pull
Entries 45
Mean −21.68
Std Dev 0
pull1D
Entries 45
Mean −0.003436
Std Dev 1.094

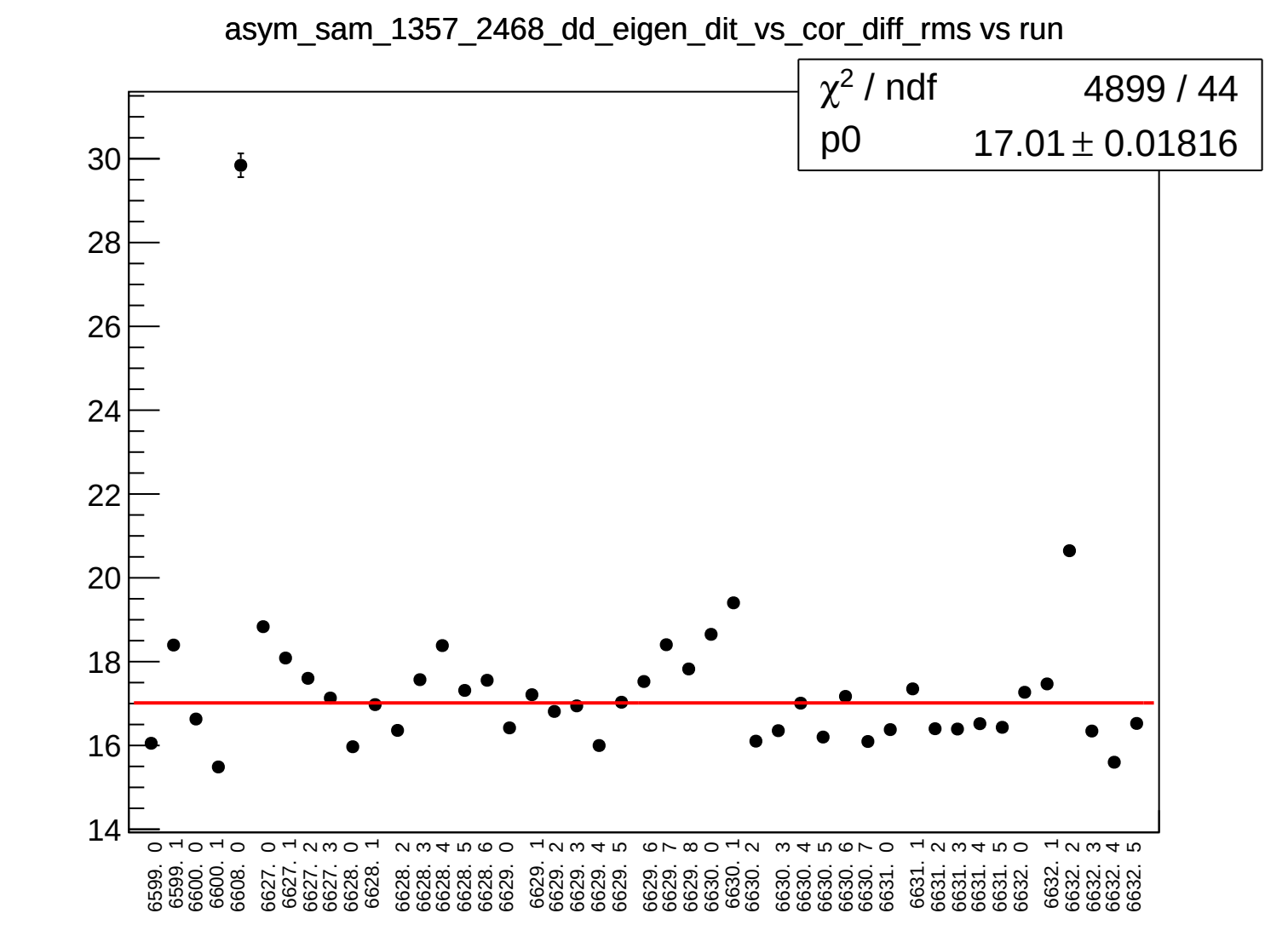

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4899 / 44
p0 17.01 ± 0.01816
30
28
26
24
22
20
18
16
14
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

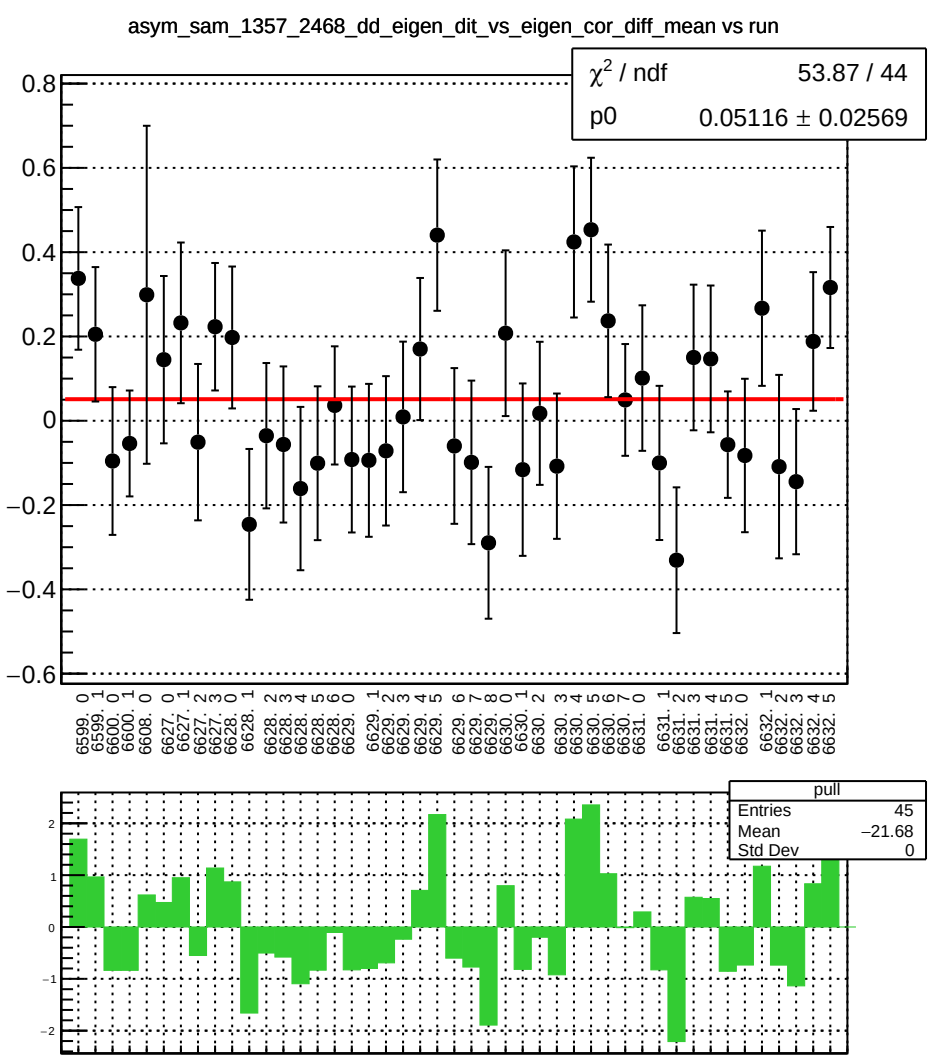

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 60.59 / 44
p0 −1.125e−06 ± 1.522e−06
0.06
0.04
0.02
0
−0.02
−0.04
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 104.4
Std Dev 0
3
2
1
0
−1
−2

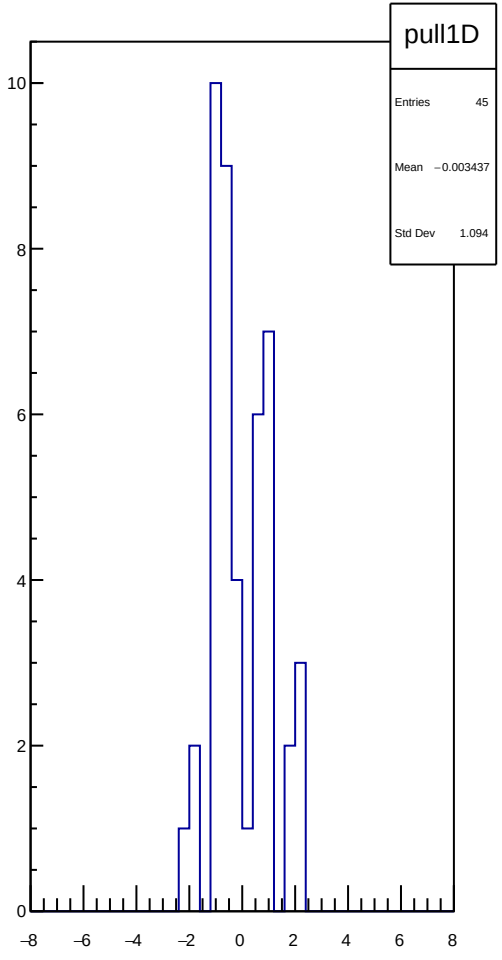

pull1D
Entries 45
Mean 0.01619
Std Dev 1.16
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

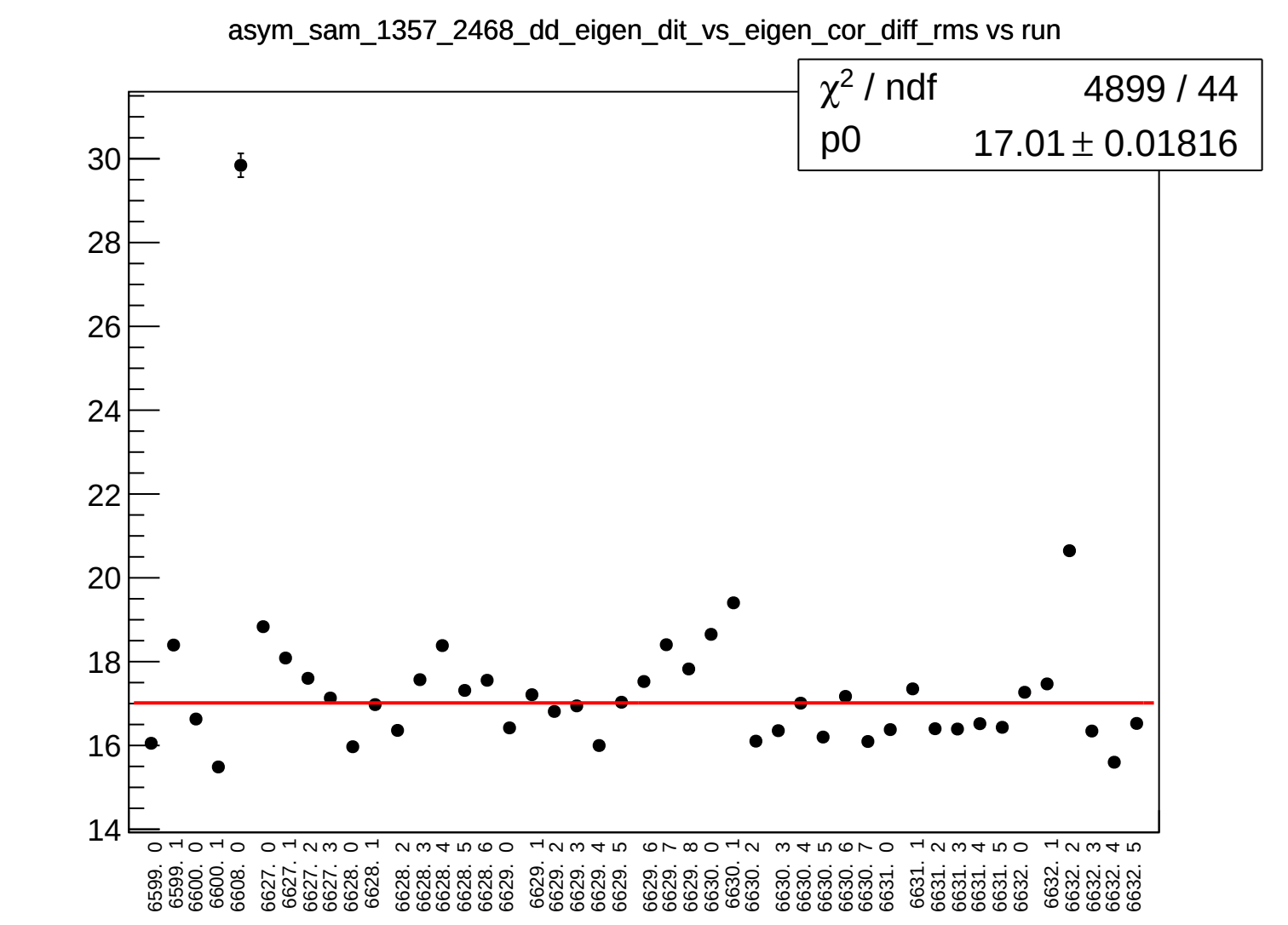

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.707e+04 / 44
p0 0.001001 ± 1.076e−06
0.0014
0.0012
0.001
0.0008
0.0006
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

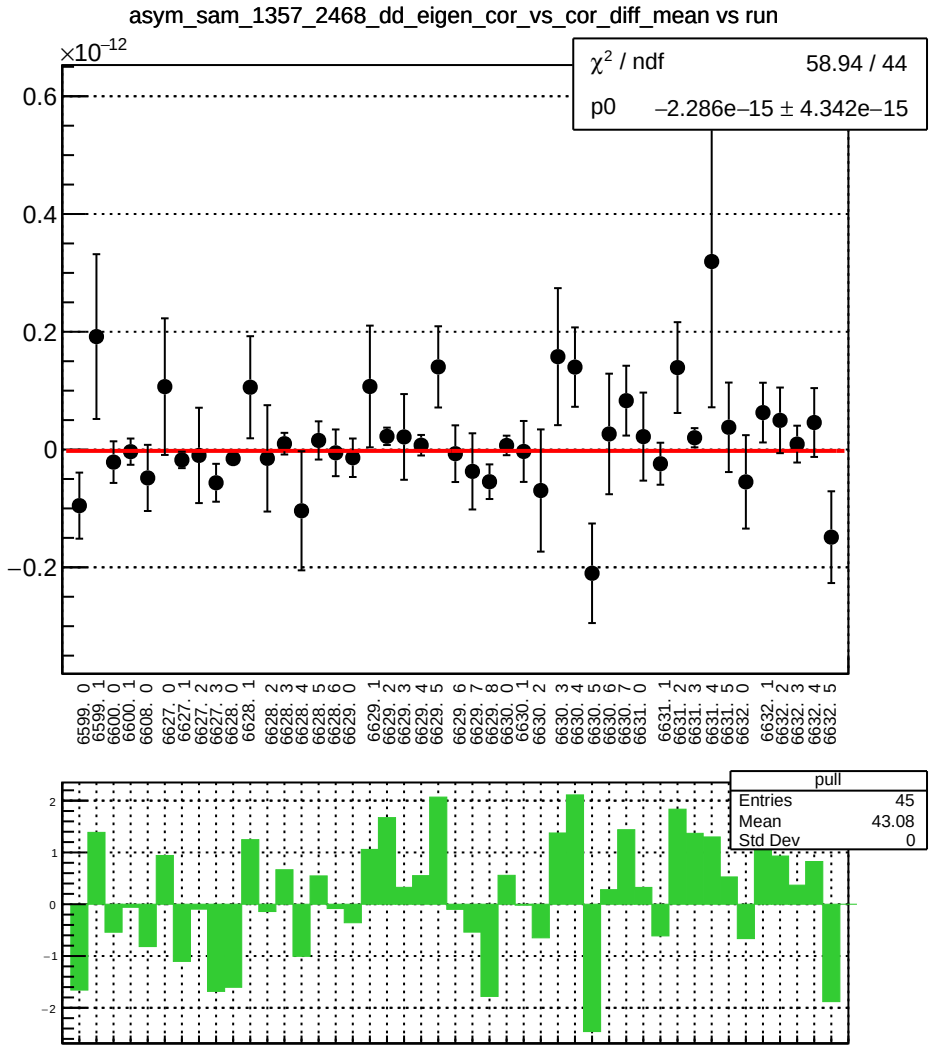

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 53.87 / 44
p0 0.05116 ± 0.02569
pull
Entries 45
Mean −21.68
Std Dev 0
pull1D
Entries 45
Mean −0.003437
Std Dev 1.094

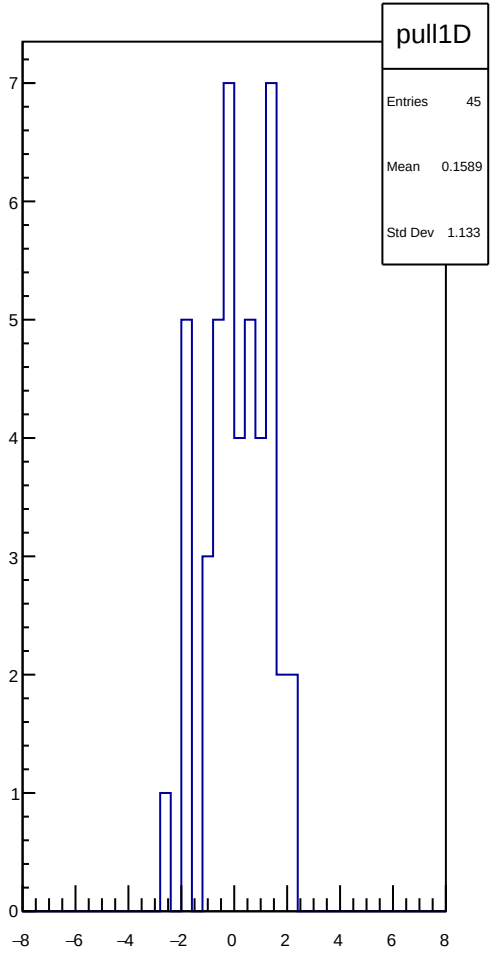

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4899 / 44
p0 17.01 ± 0.01816
30
28
26
24
22
20
18
16
14
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

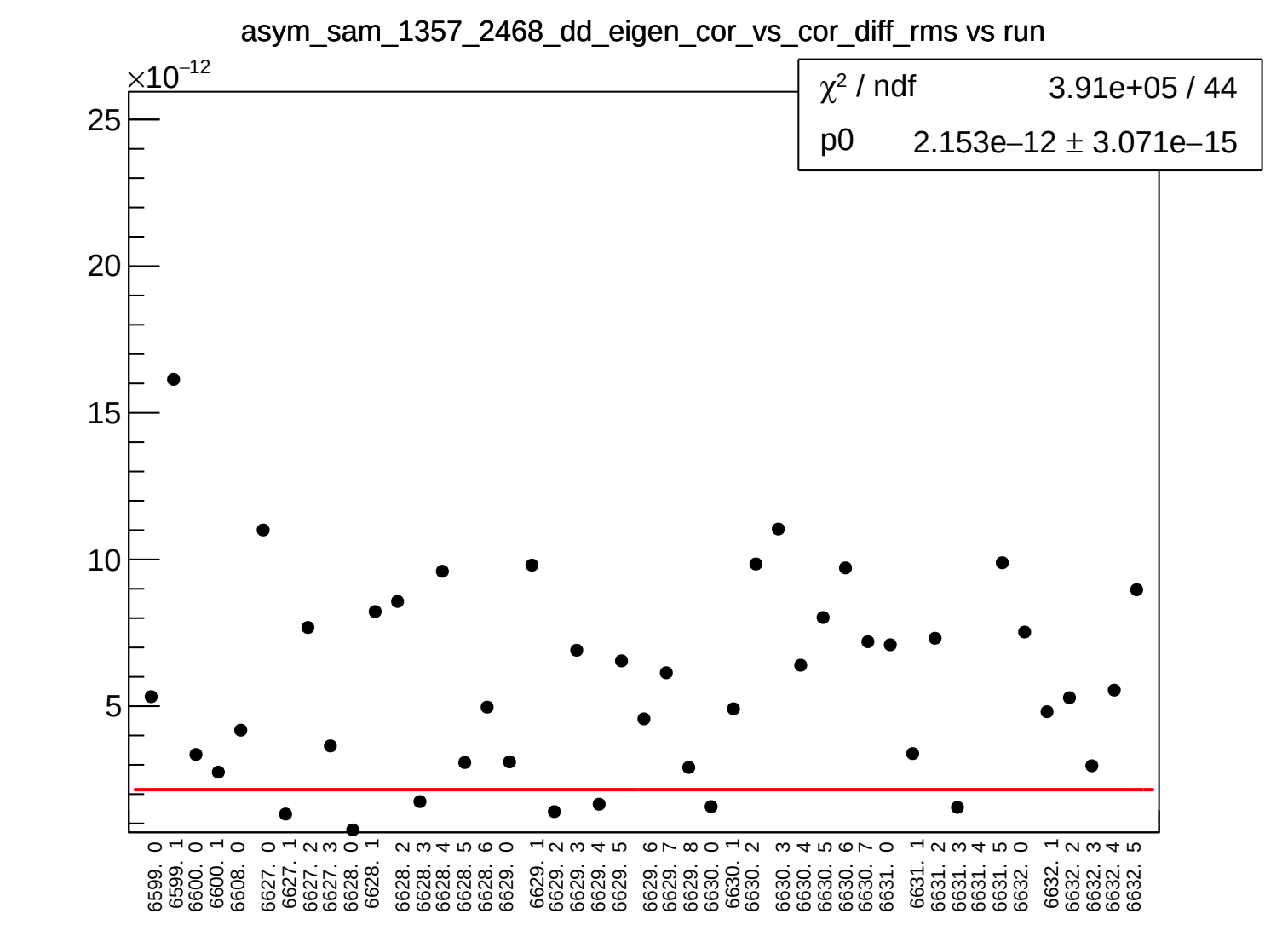

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 53.87 / 44
p0 0.05116 ± 0.02569
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −21.68
Std Dev 0
2
1
0
−1
−2

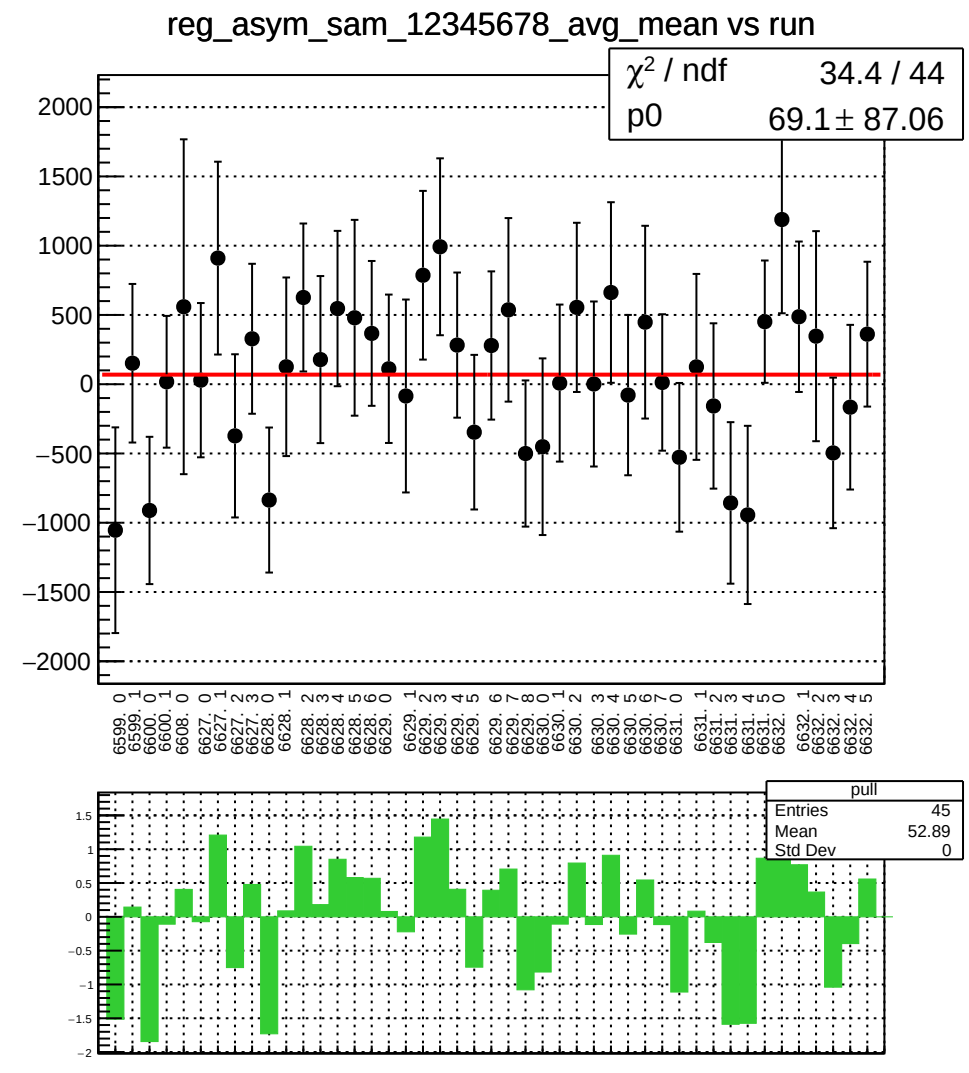

pull1D
Entries 45
Mean −0.003437
Std Dev 1.094
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

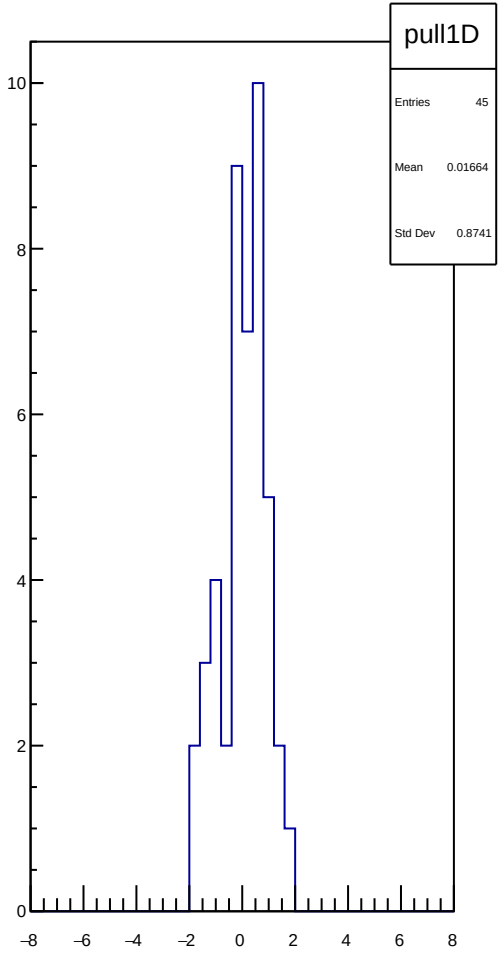

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4899 / 44
p0 17.01 ± 0.01816
30
28
26
24
22
20
18
16
14
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

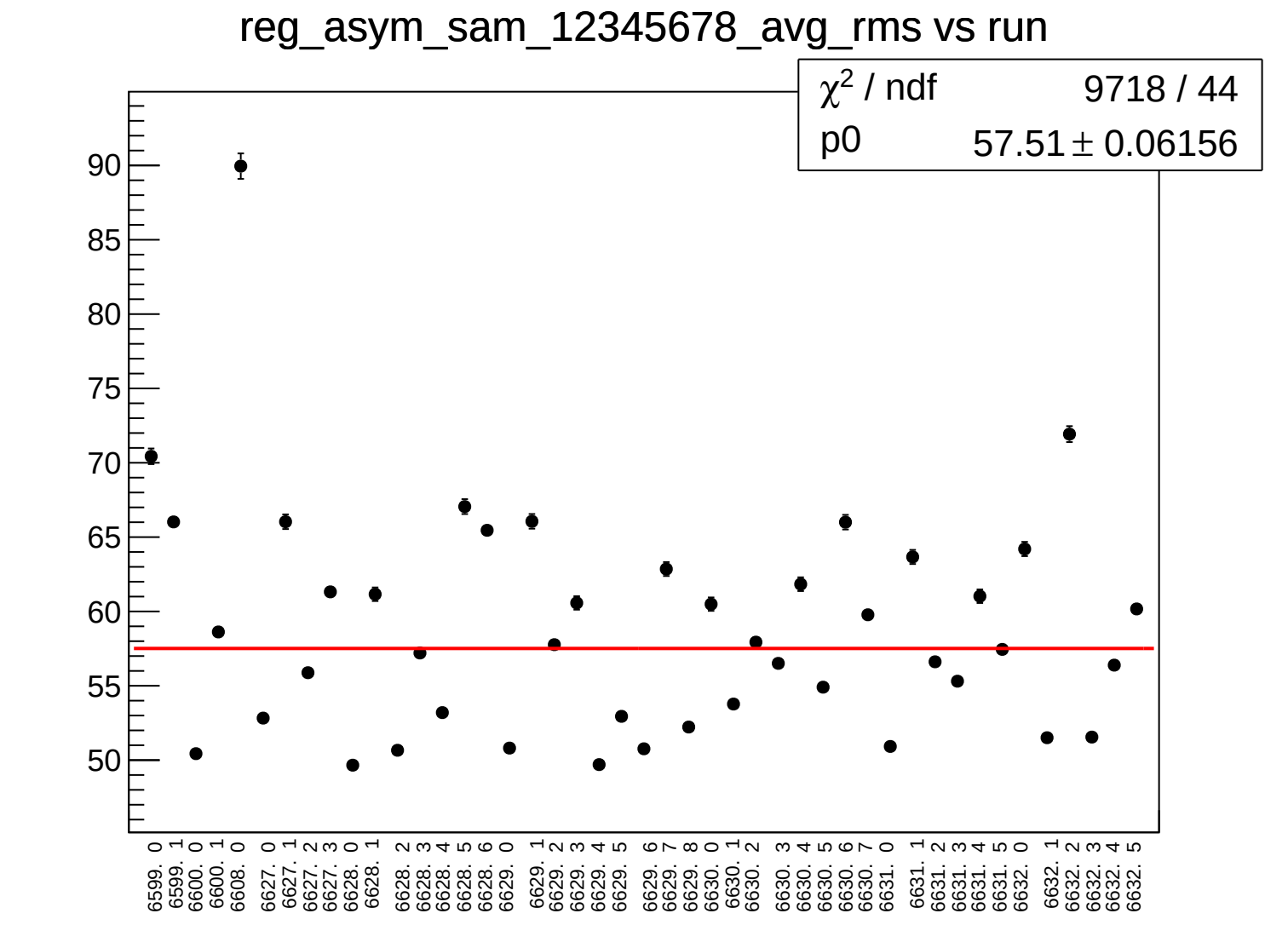

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 58.94 / 44
p0 −2.286e−15 ± 4.342e−15
0.6
0.4
0.2
0
−0.2
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 43.08
Std Dev 0
2
1
0
−1
−2

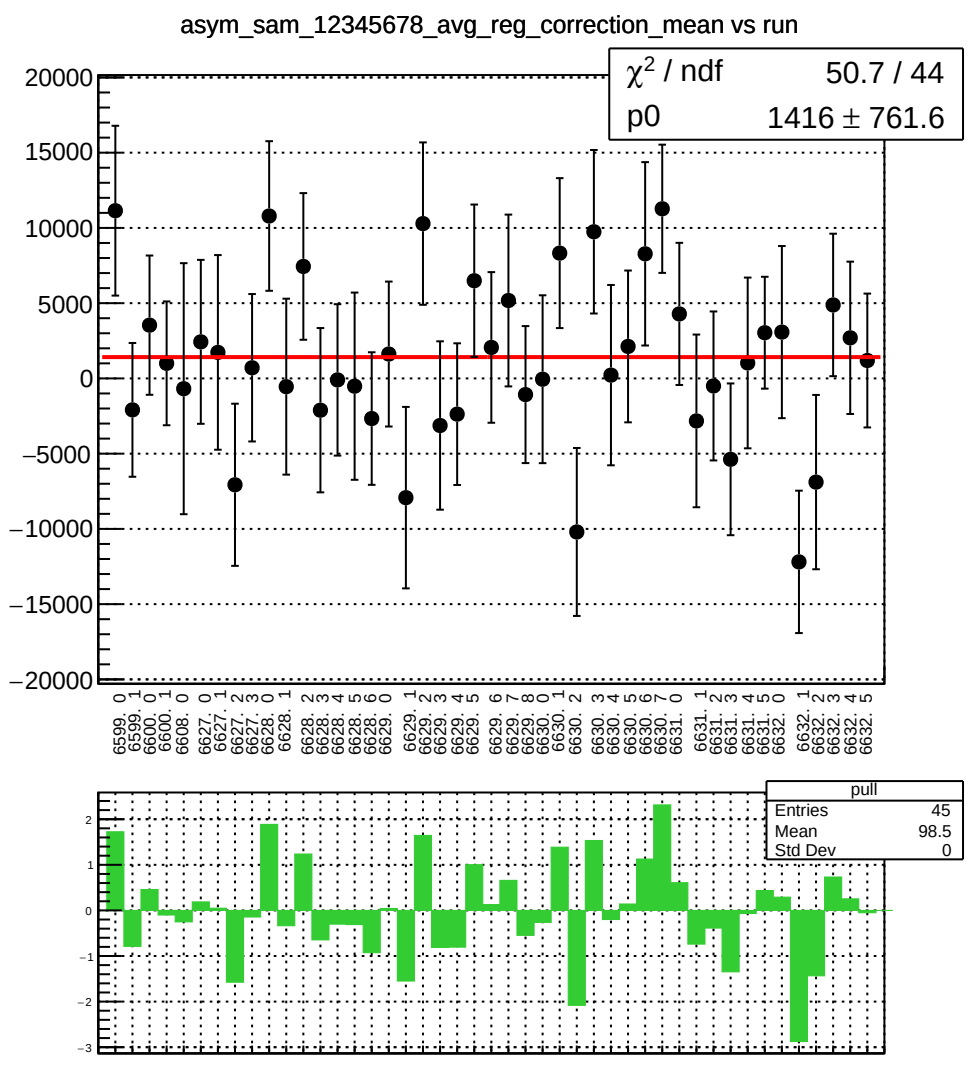

pull1D
Entries 45
Mean 0.1589
Std Dev 1.133
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

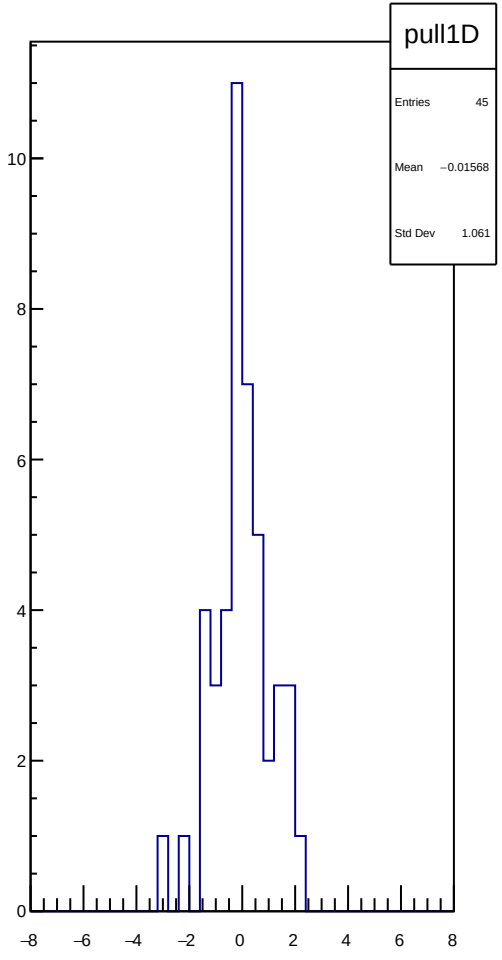

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.91e+05 / 44
p0 2.153e−12 ± 3.071e−15
25
20
15
10
5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

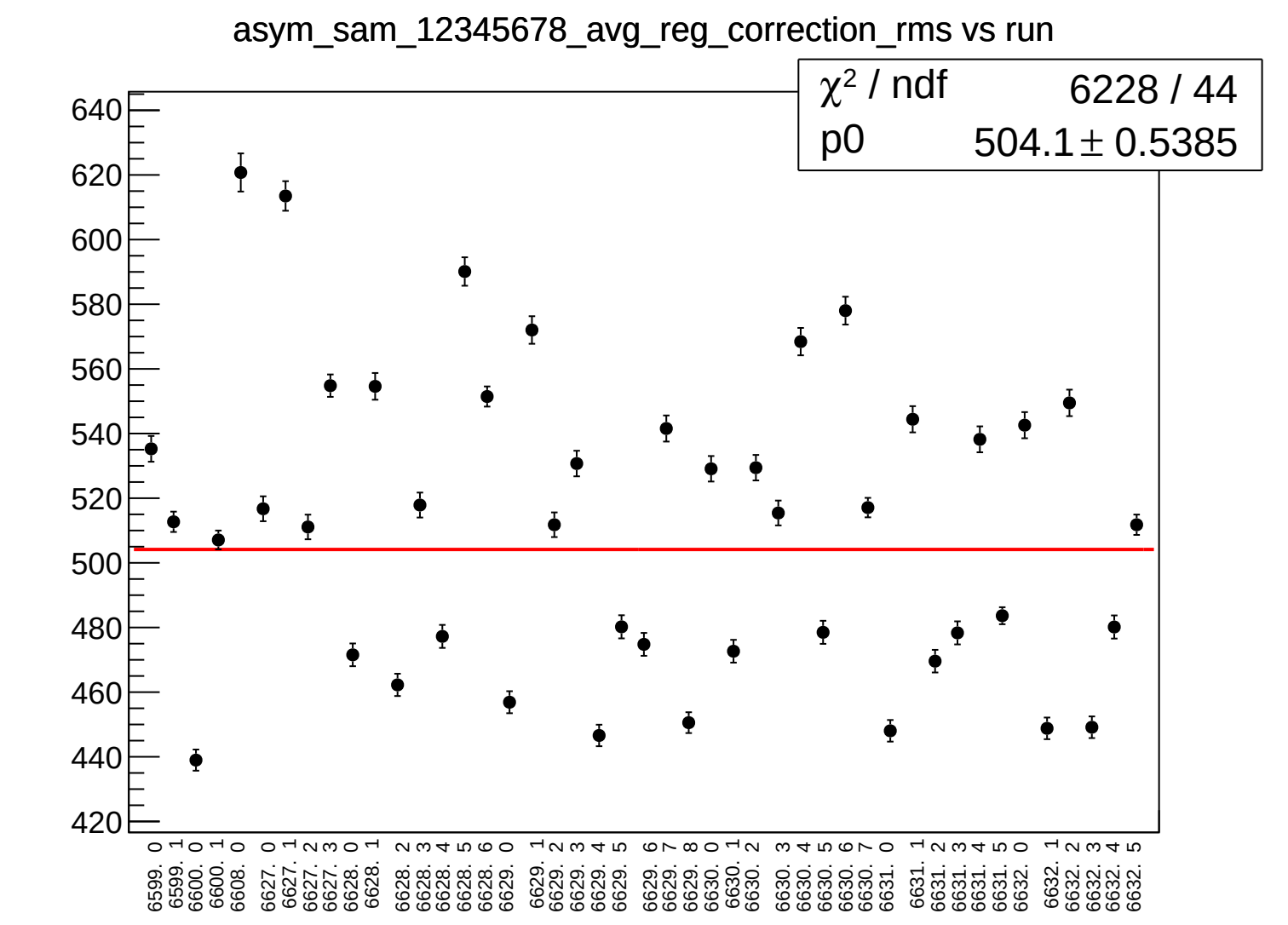

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 34.4 / 44
p0 69.1 ± 87.06
pull
Entries 45
Mean 52.89
Std Dev 0

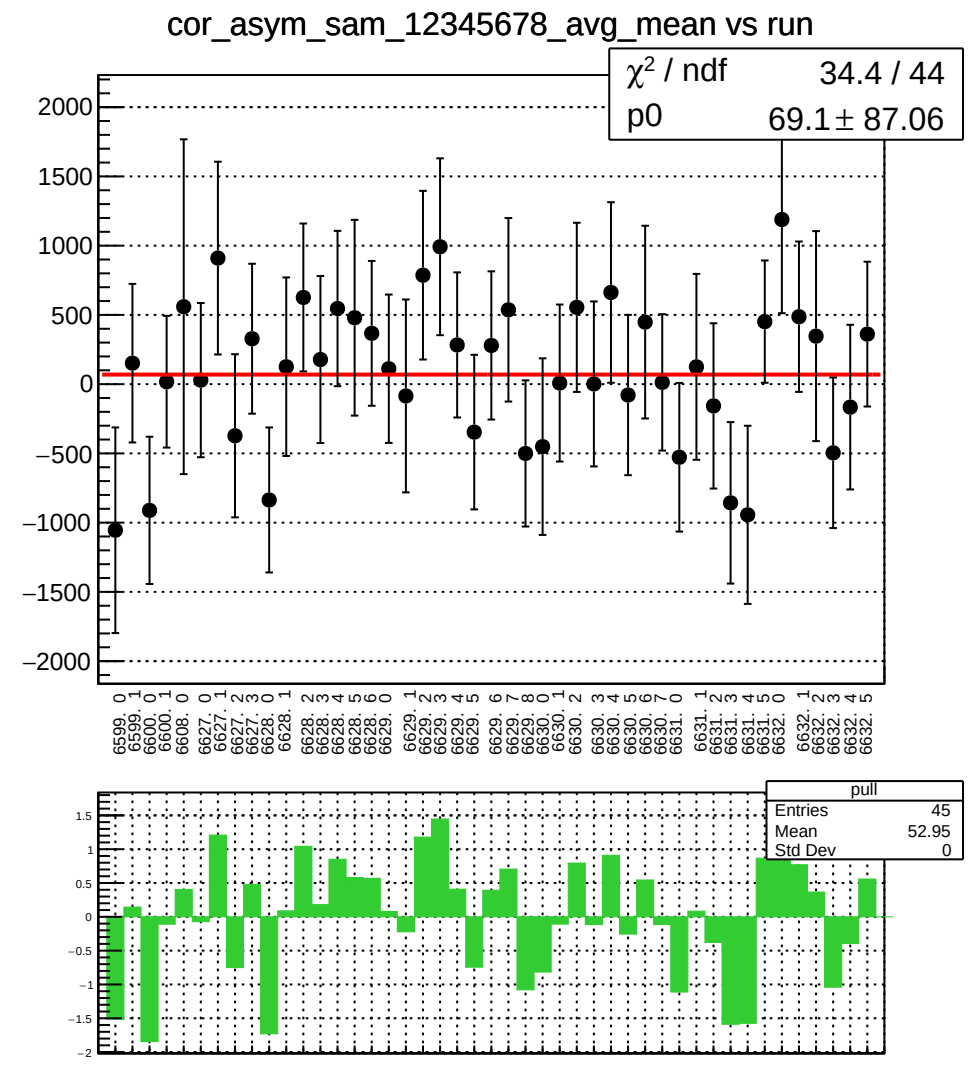

pull1D
Entries 45
Mean 0.01664
Std Dev 0.8741

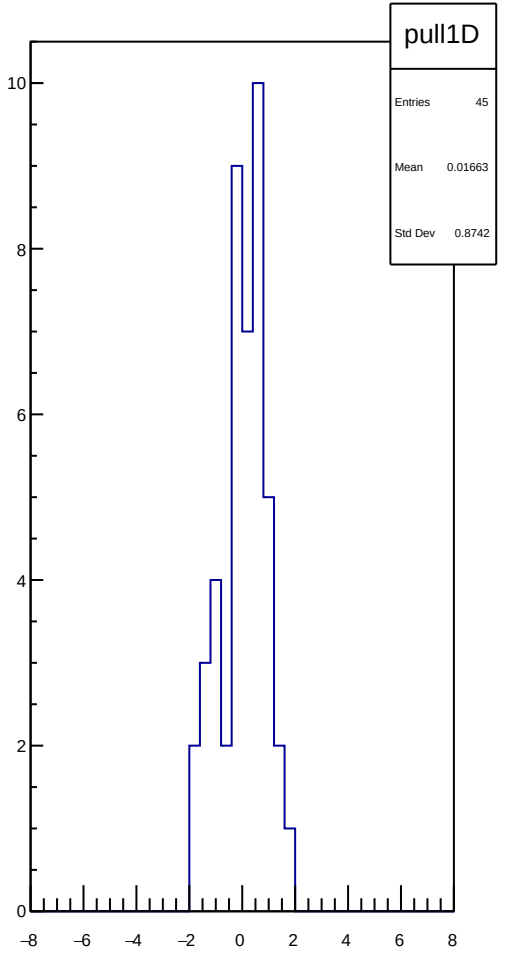

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 9718 / 44
p0 57.51 ± 0.06156
90
85
80
75
70
65
60
55
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

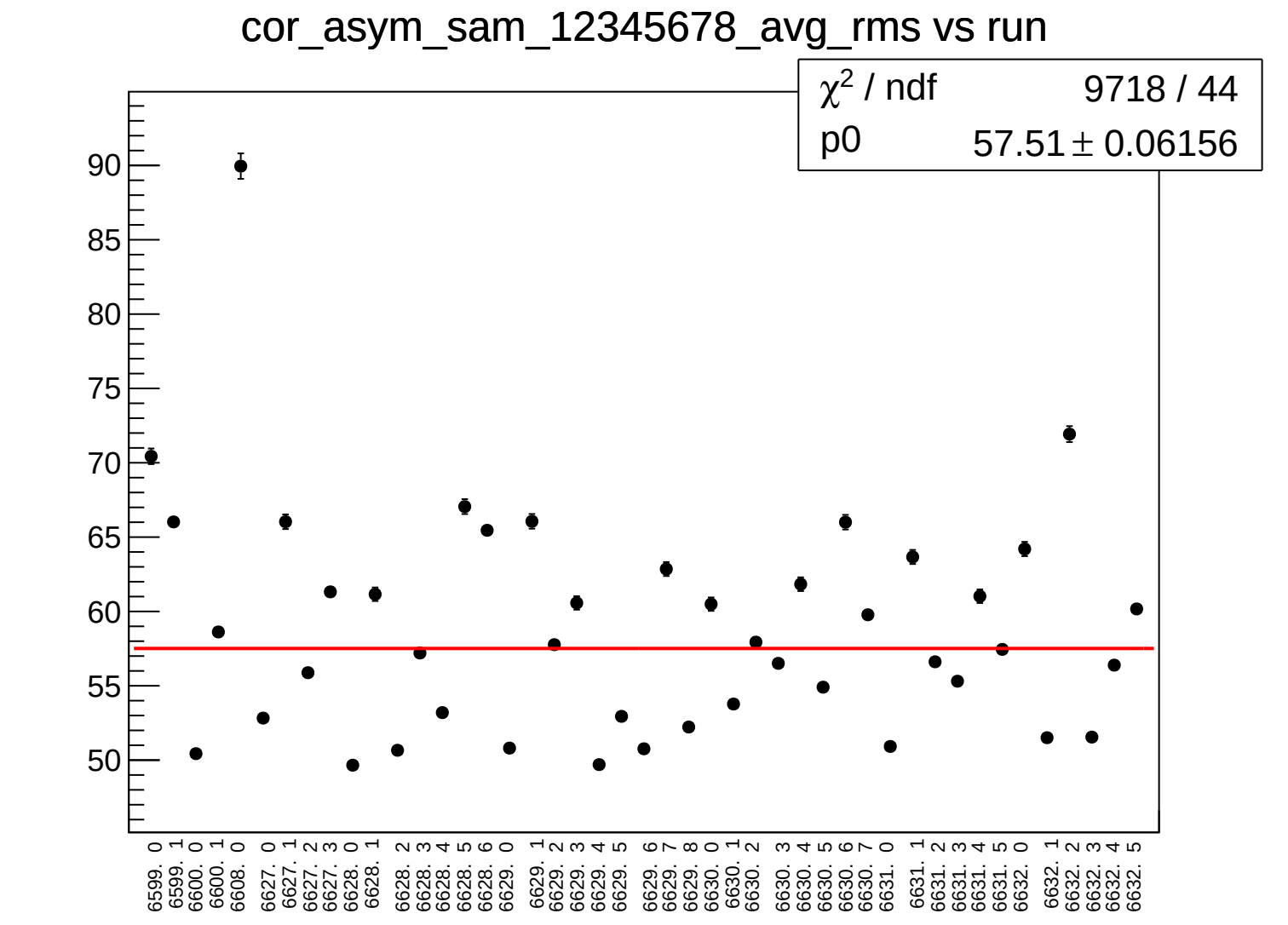

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 50.7 / 44
p0 1416 ± 761.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 98.5
Std Dev 0
2
1
0
−1
−2
−3

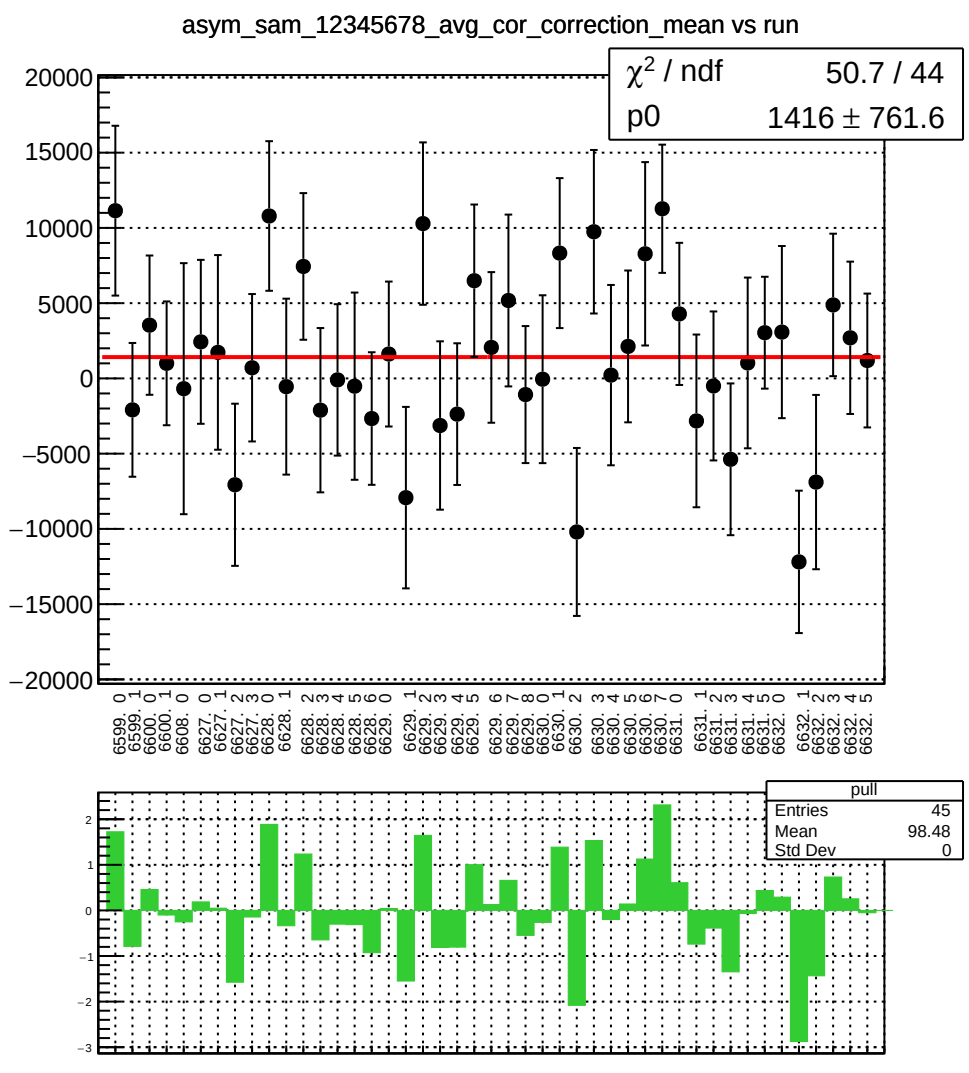

pull1D
Entries 45
Mean −0.01568
Std Dev 1.061
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

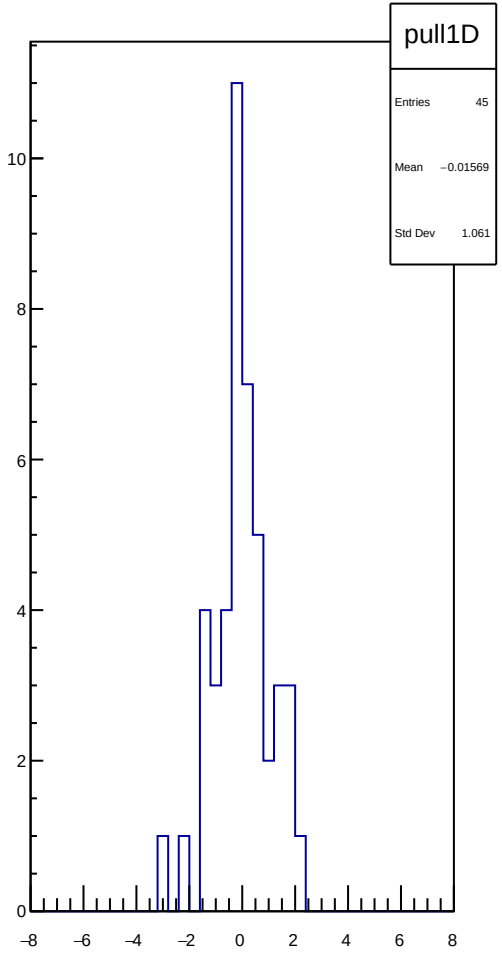

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 6228 / 44
p0 504.1 ± 0.5385
640
620
600
580
560
540
520
500
480
460
440
420
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

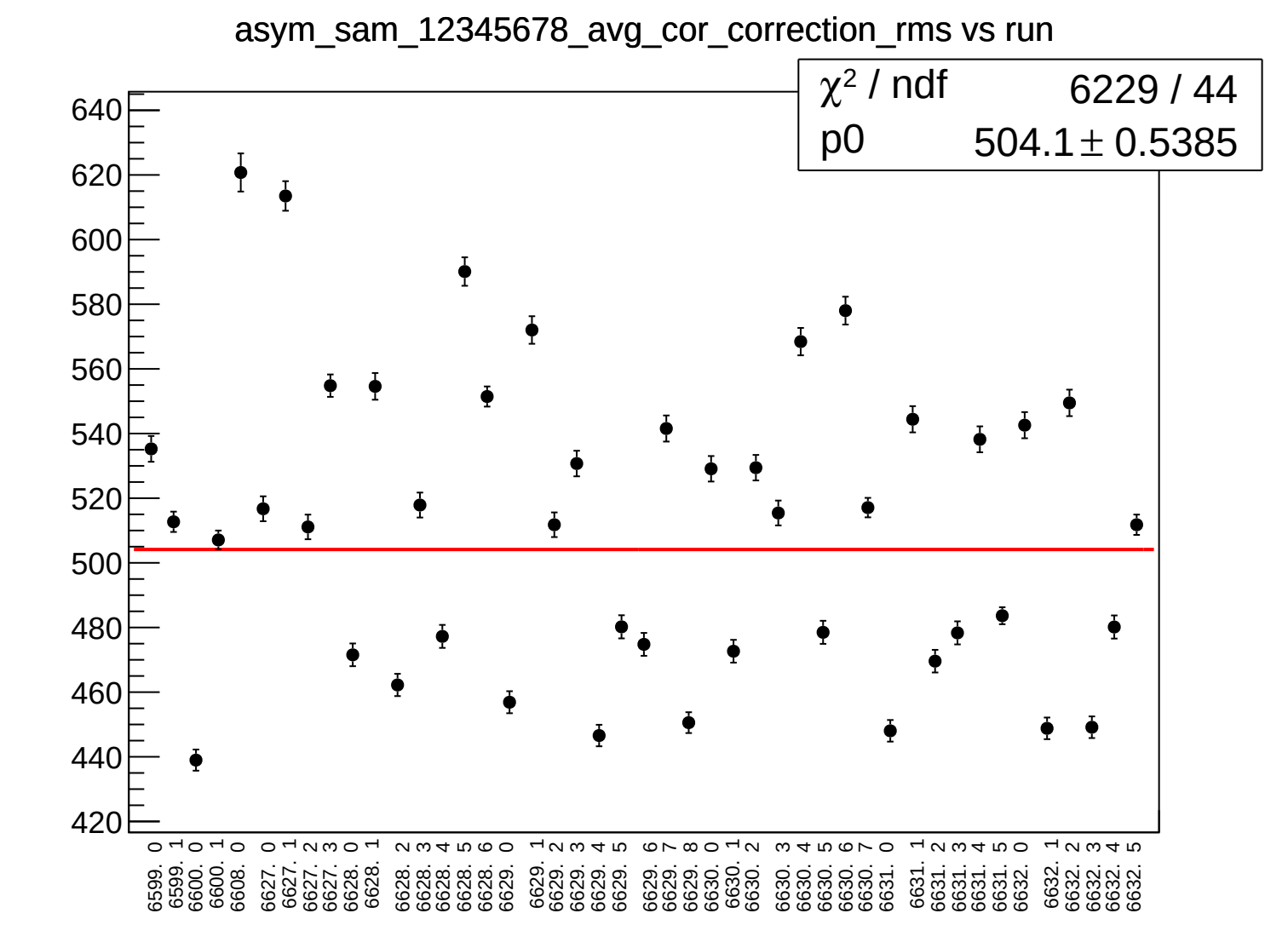

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 34.4 / 44
p0 69.1 ± 87.06
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 52.95
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

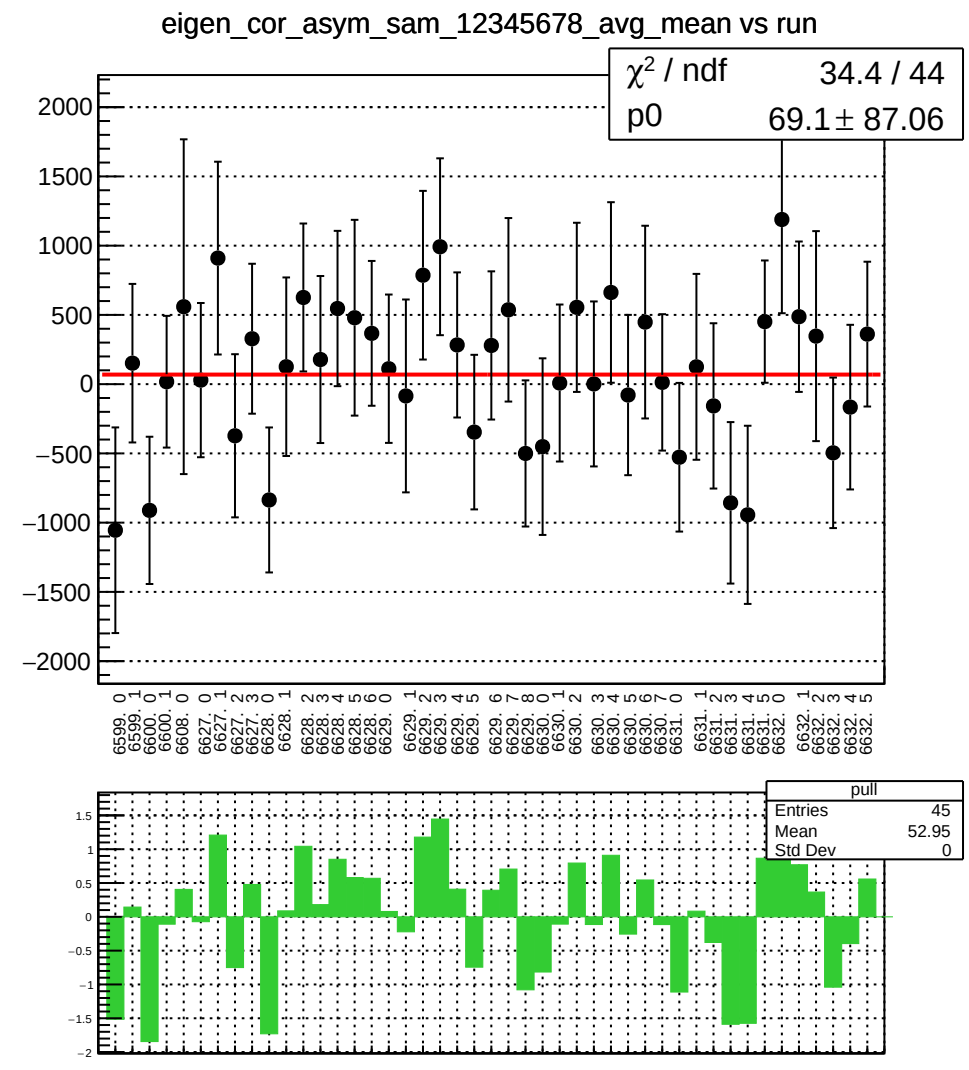

pull1D
Entries 45
Mean 0.01663
Std Dev 0.8742
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

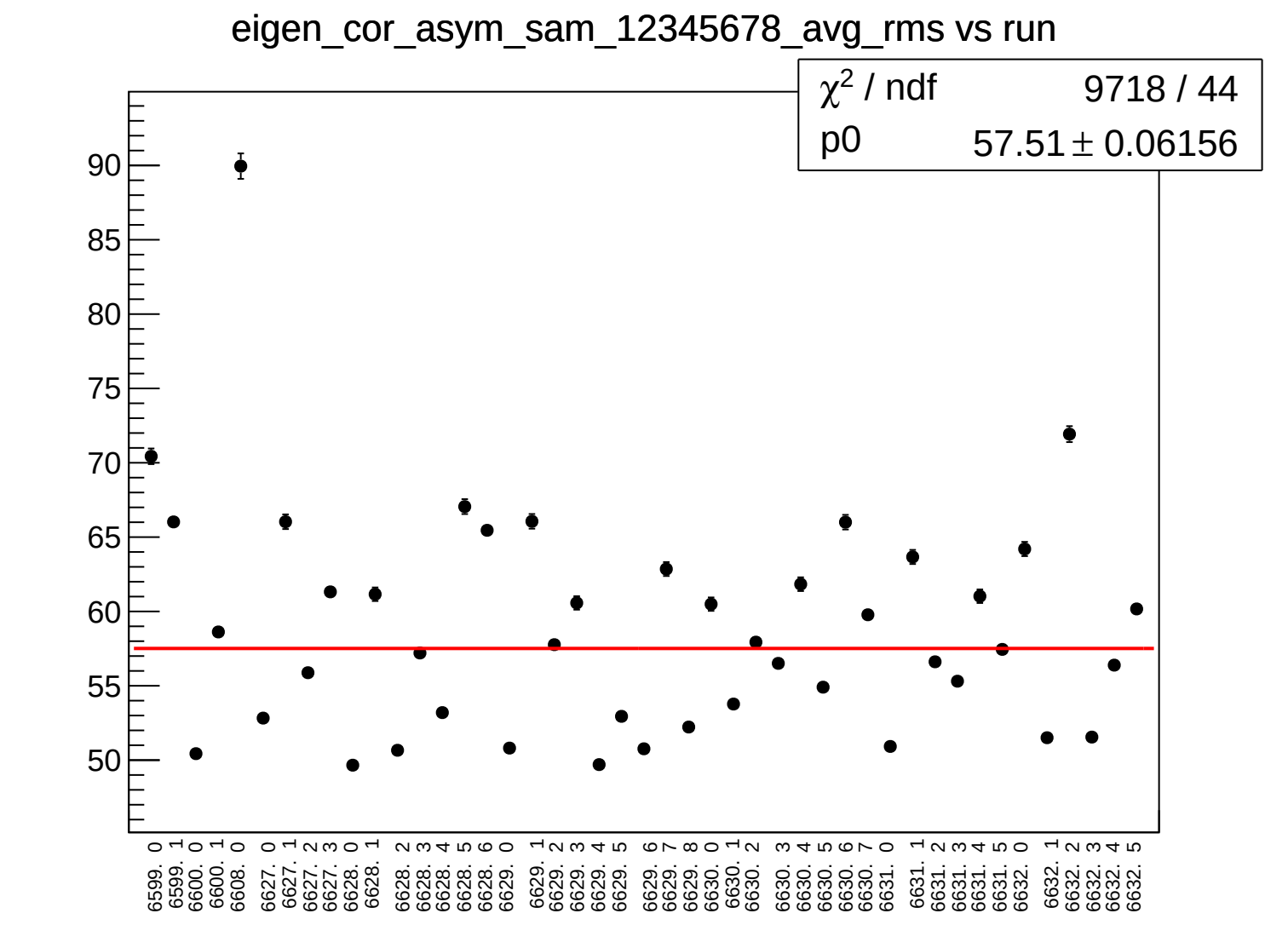

cor_asym_sam_12345678_avg_rms vs run
$\chi^2$ / ndf 9718 / 44
p0 57.51 ± 0.06156
90
85
80
75
70
65
60
55
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 50.7 / 44
p0 1416 ± 761.6
pull
Entries 45
Mean 98.48
Std Dev 0


pull1D
Entries 45
Mean −0.01569
Std Dev 1.061


asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 6229 / 44
p0 504.1 ± 0.5385
640
620
600
580
560
540
520
500
480
460
440
420
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 34.4 / 44
p0 69.1 ± 87.06
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 52.95
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01663
Std Dev 0.8742
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 9718 / 44
p0 57.51 ± 0.06156
90
85
80
75
70
65
60
55
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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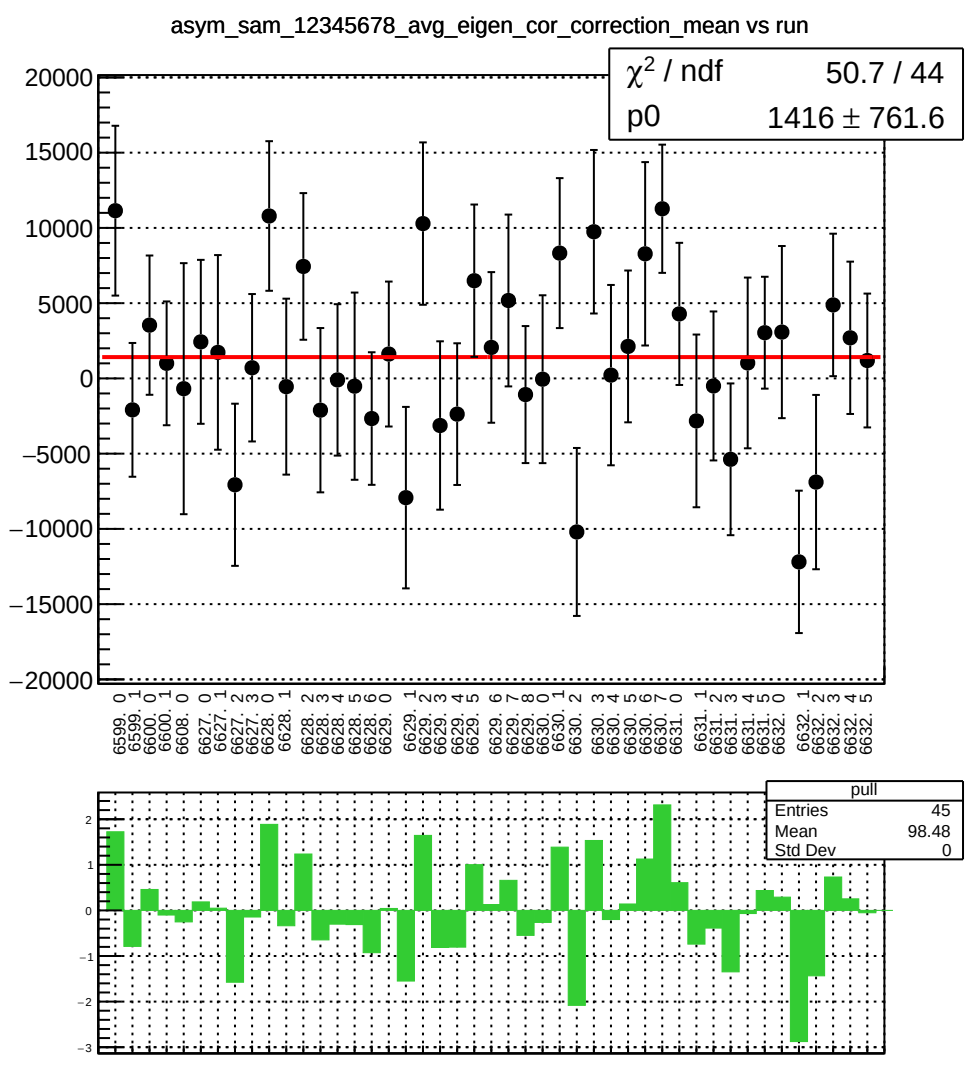
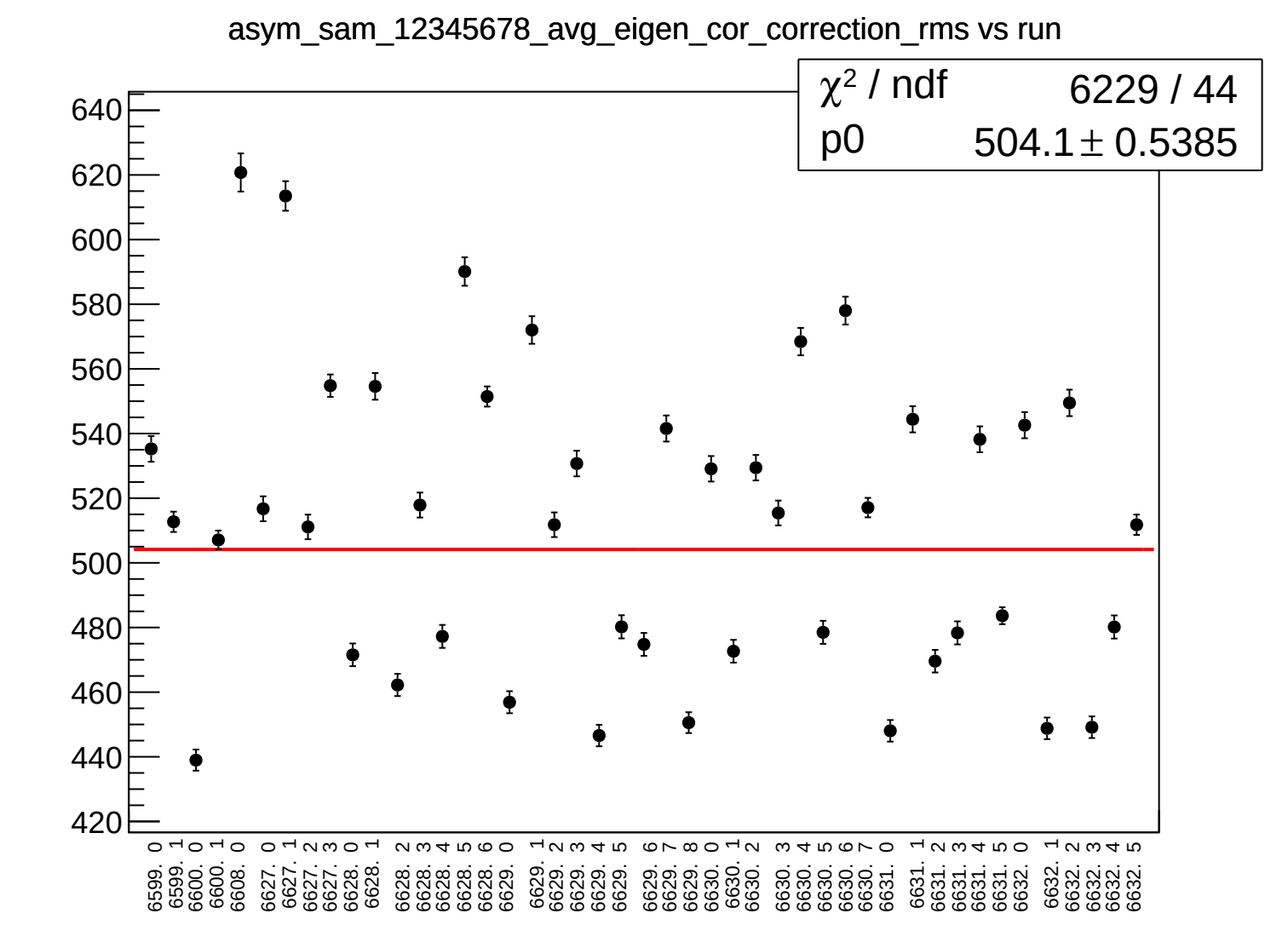
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 50.7 / 44
p0 1416 ± 761.6
pull
Entries 45
Mean 98.48
Std Dev 0
pull1D
Entries 45
Mean −0.01569
Std Dev 1.061


asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 6229 / 44
p0 504.1 ± 0.5385
640
620
600
580
560
540
520
500
480
460
440
420
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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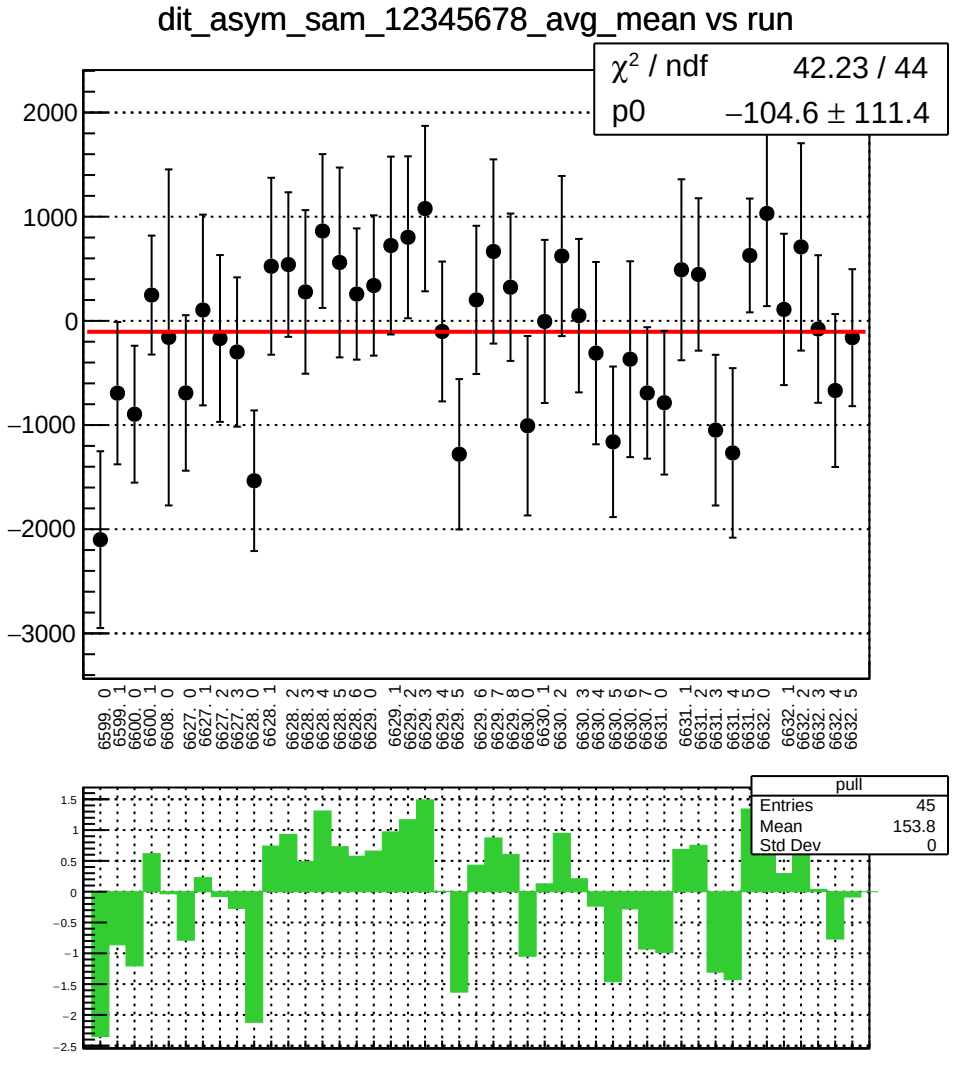
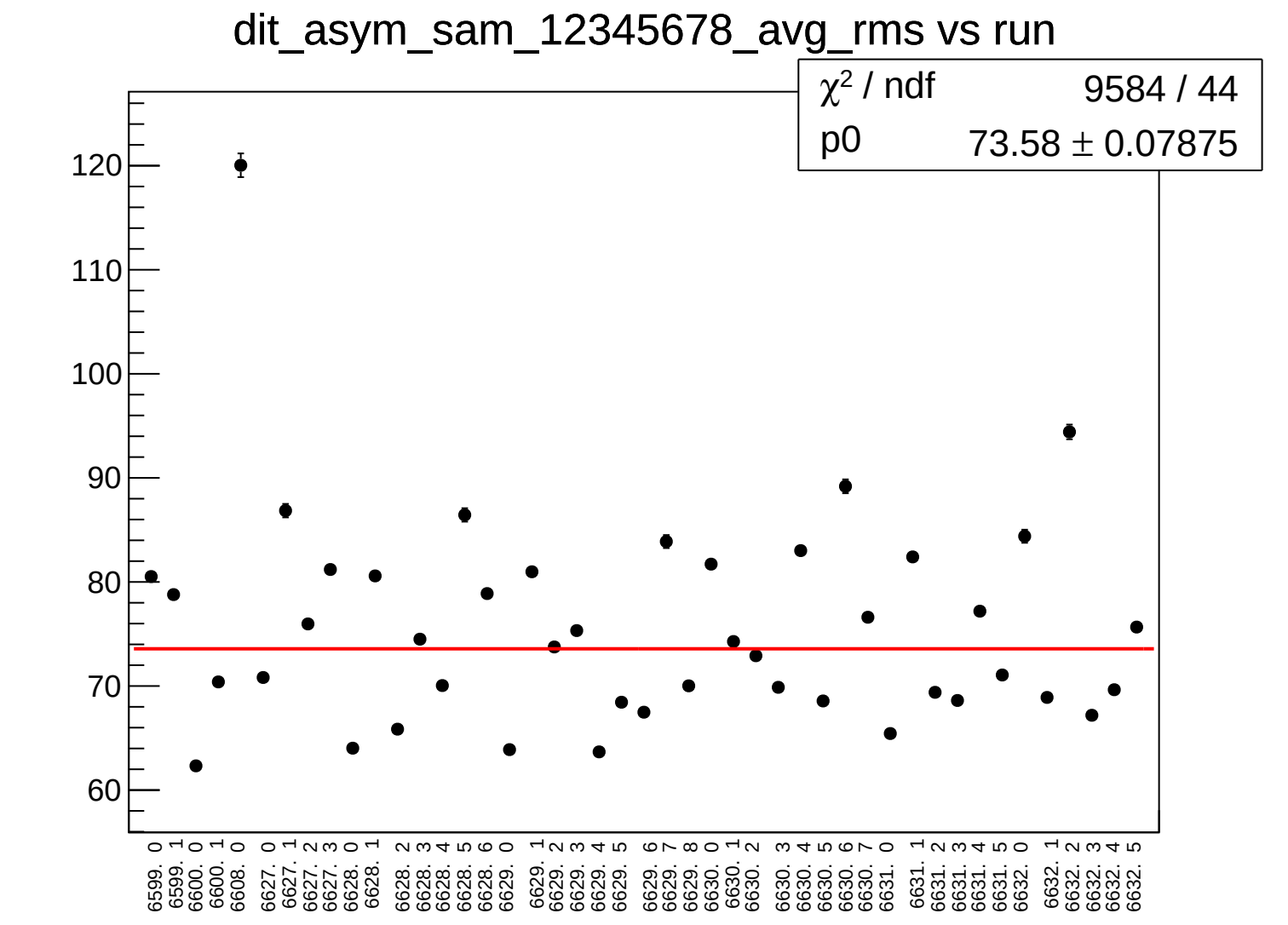
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 42.23 / 44
p0 −104.6 ± 111.4
2000
1000
0
−1000
−2000
−3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 153.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.009749
Std Dev 0.9686
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 9584 / 44
p0 73.58 ± 0.07875
120
110
100
90
80
70
60
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
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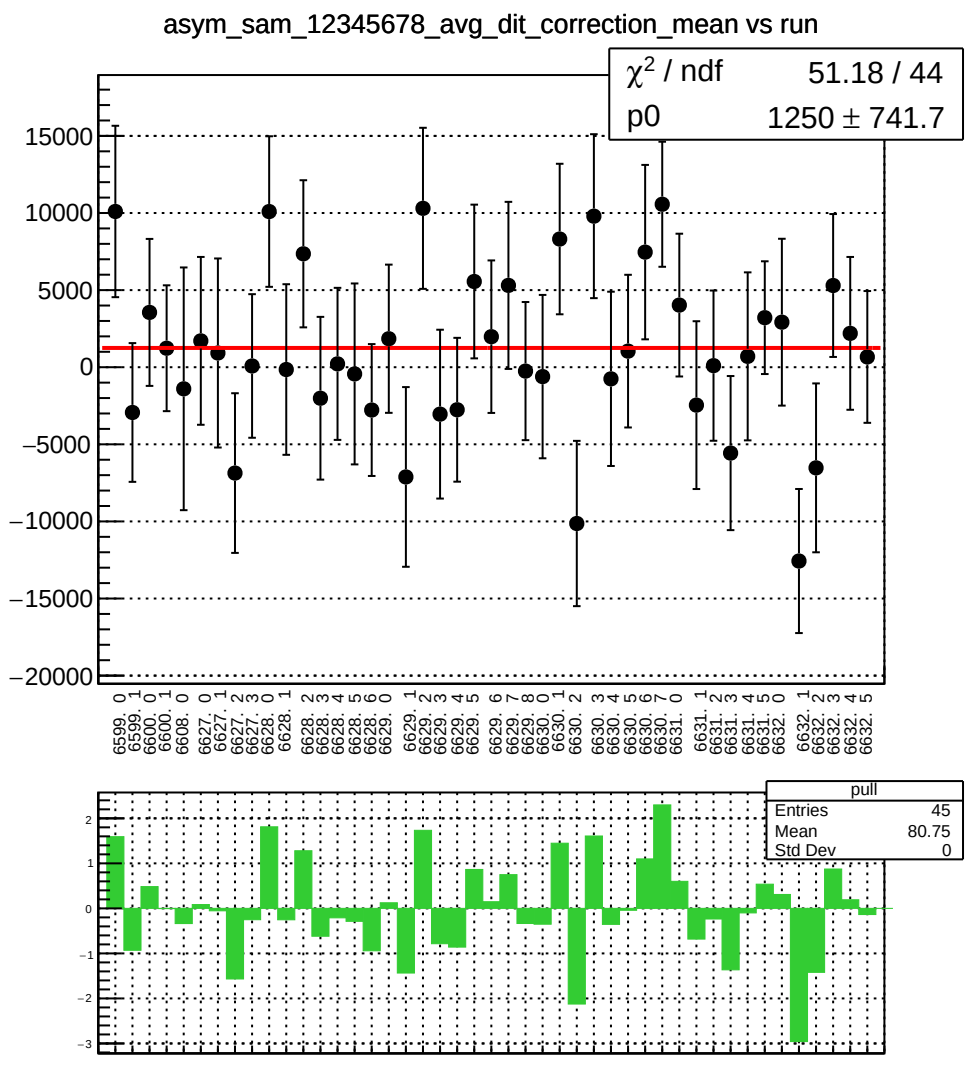
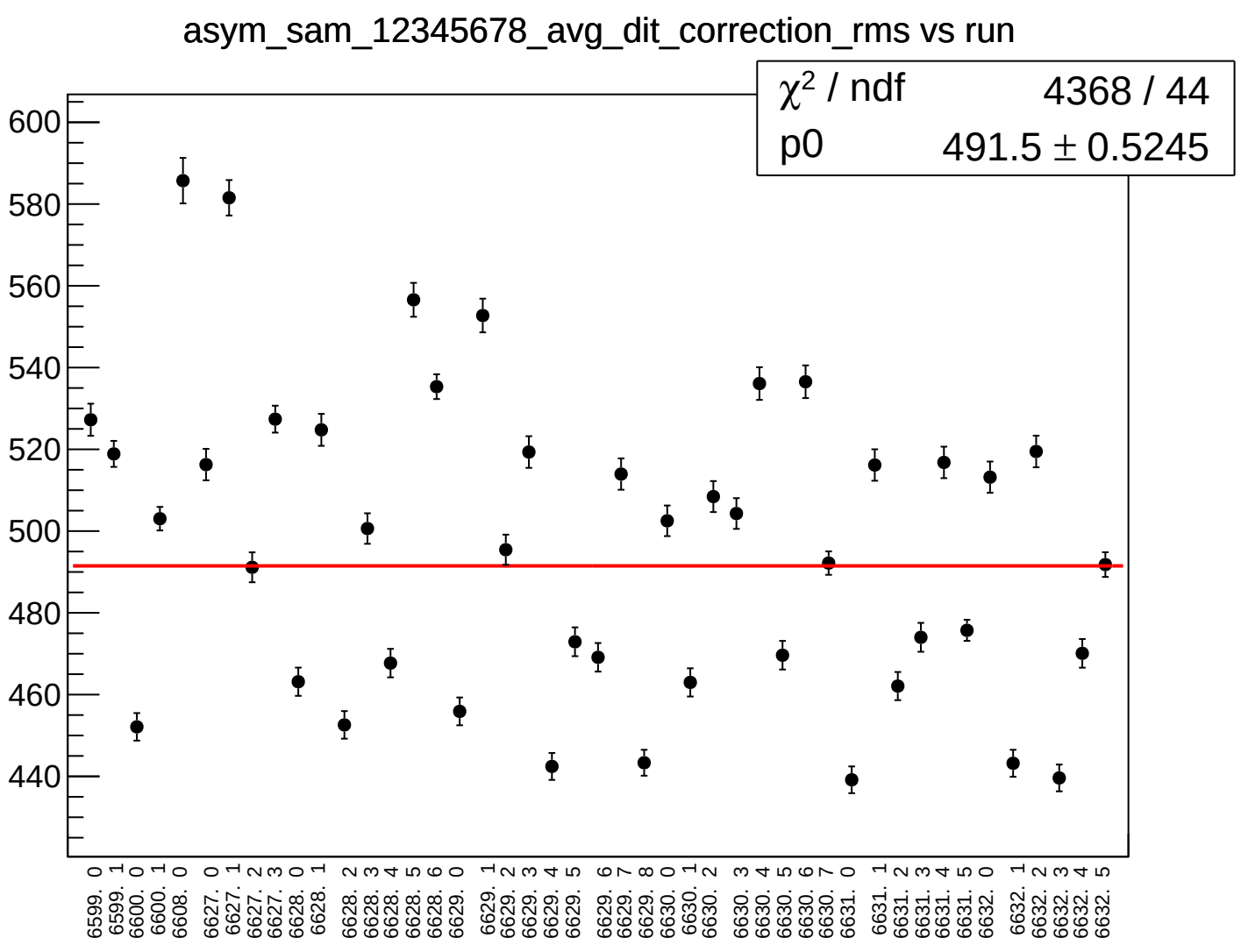
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 51.18 / 44
p0 1250 ± 741.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 80.75
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.01784
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 4368 / 44
p0 491.5 ± 0.5245
600
580
560
540
520
500
480
460
440
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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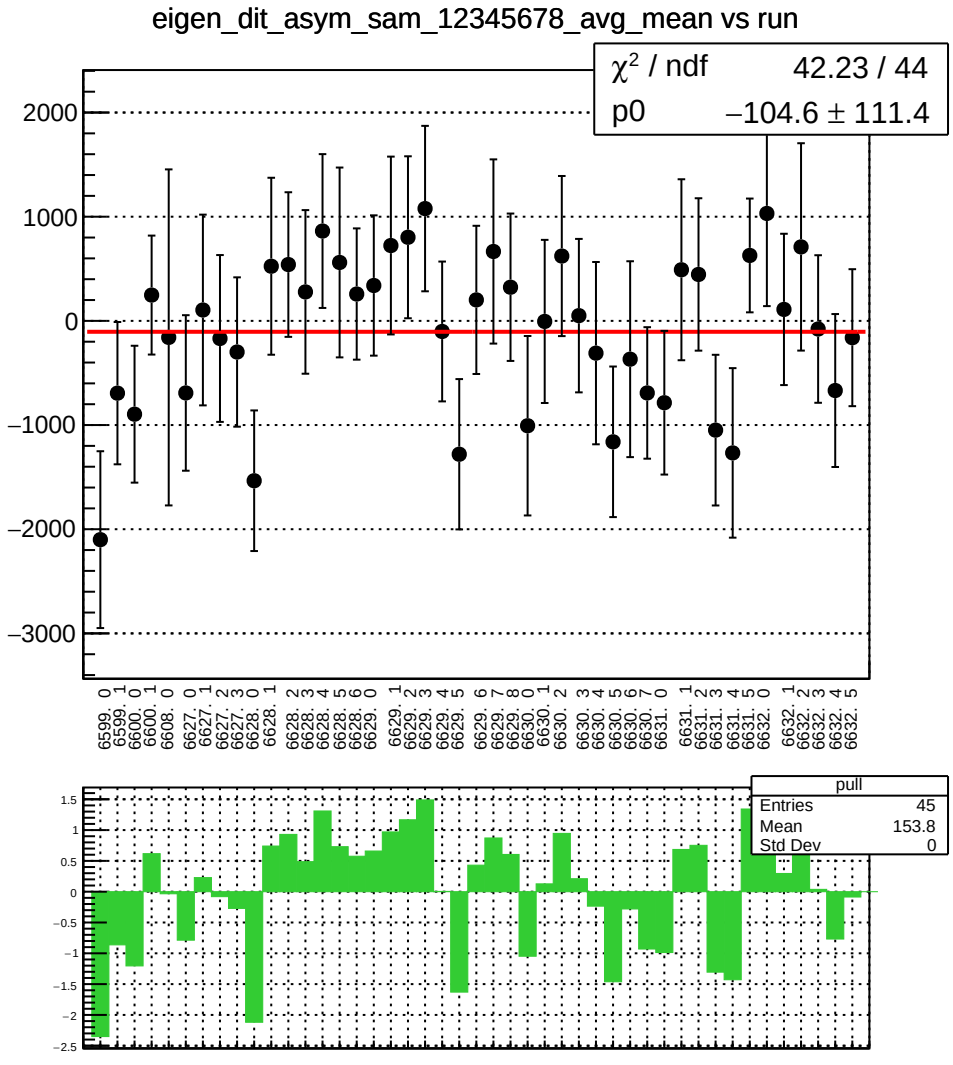
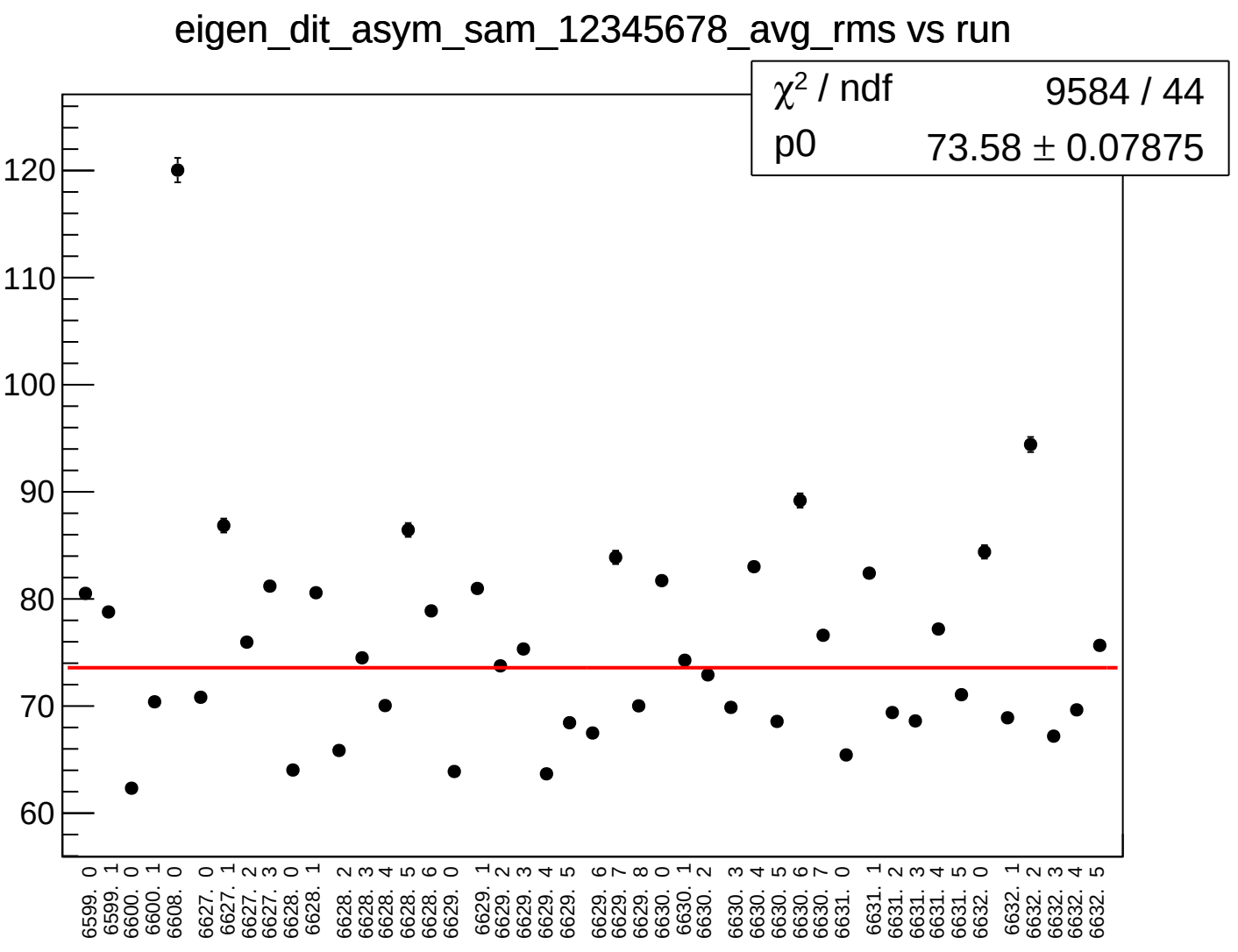
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 42.23 / 44
p0 −104.6 ± 111.4
2000
1000
0
−1000
−2000
−3000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 153.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.009749
Std Dev 0.9686
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 9584 / 44
p0 73.58 ± 0.07875
120
110
100
90
80
70
60
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
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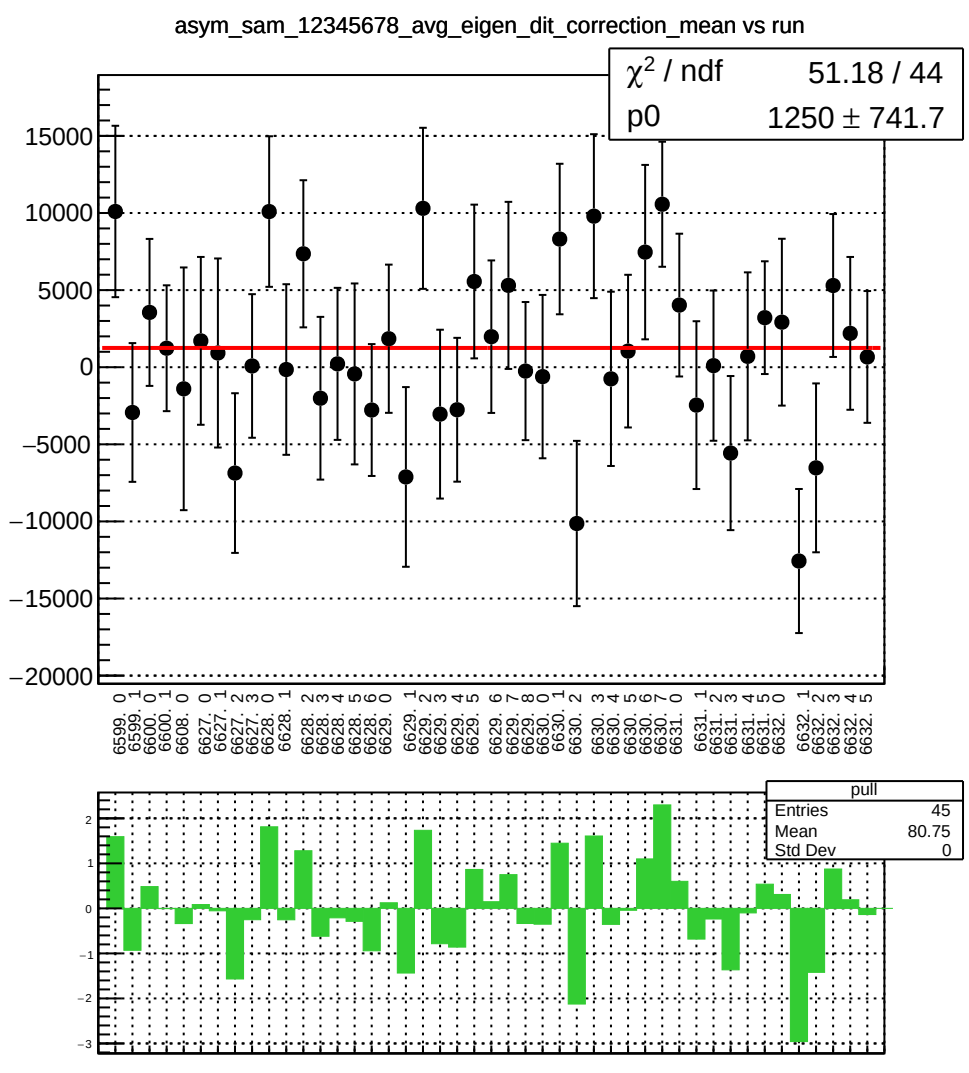
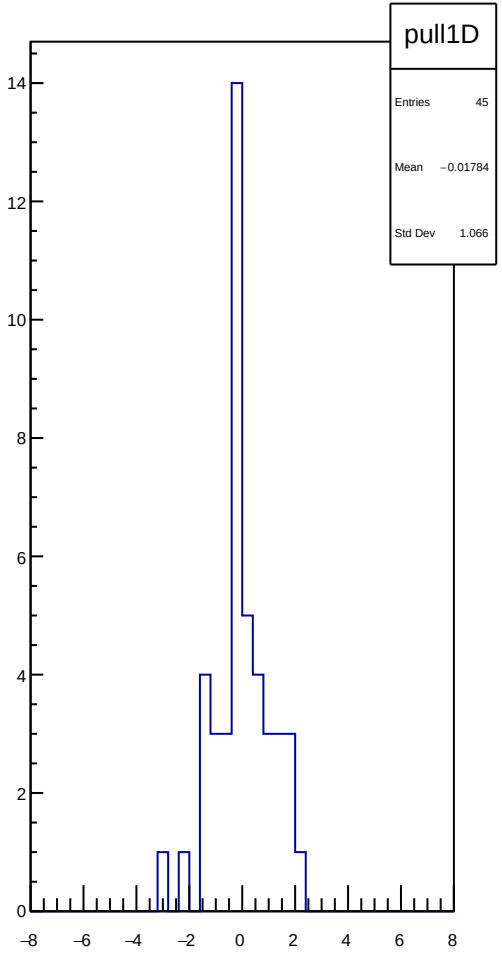
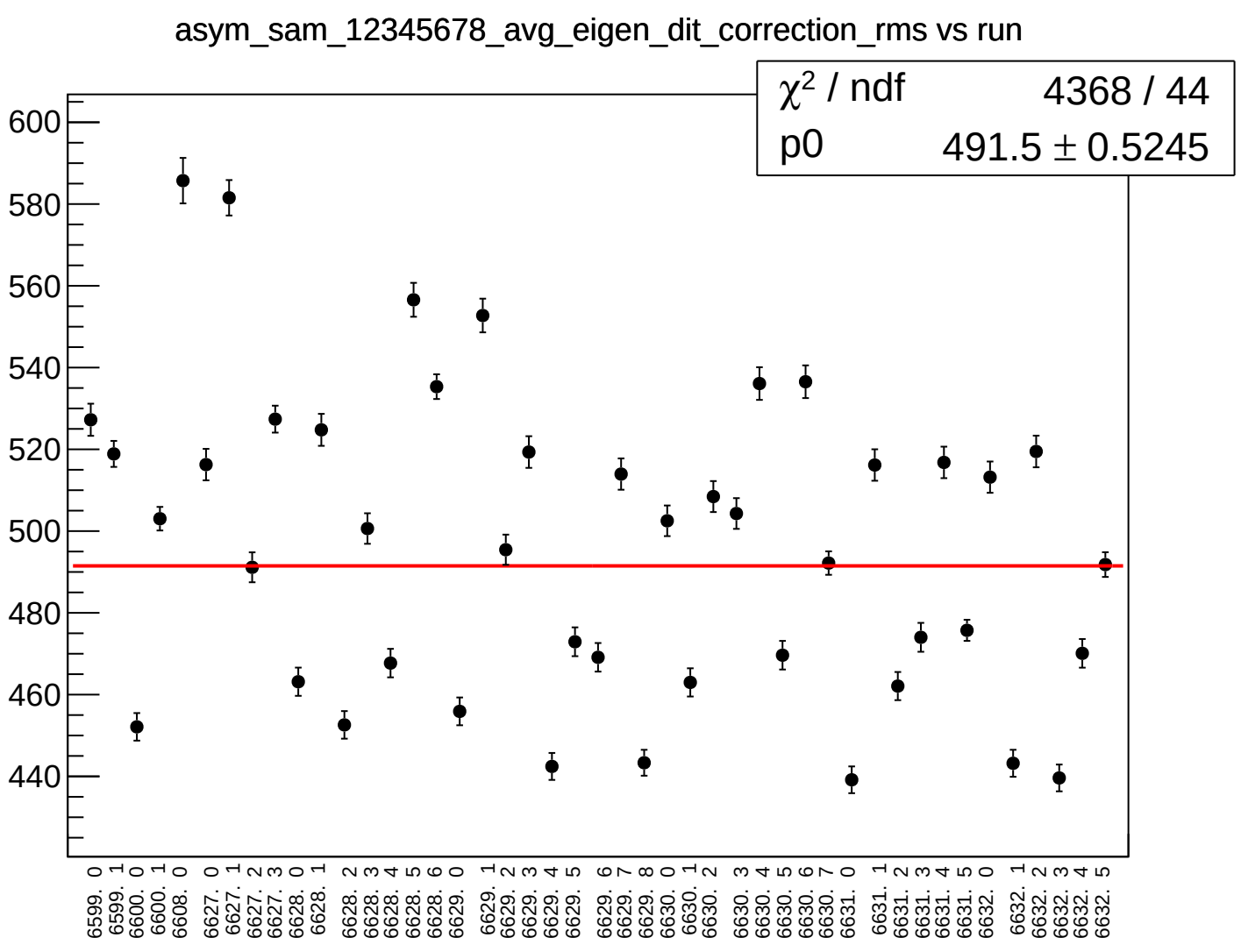
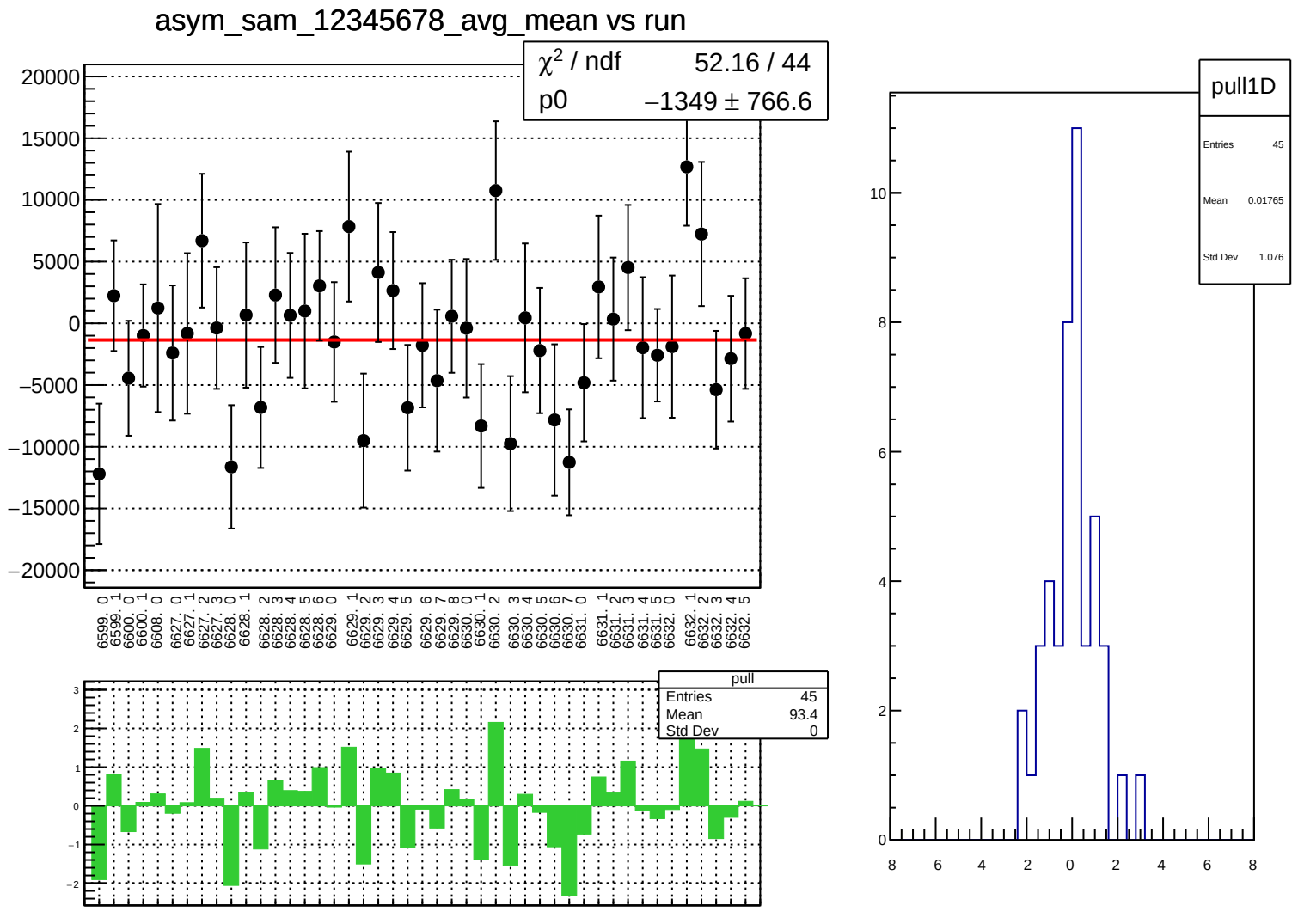
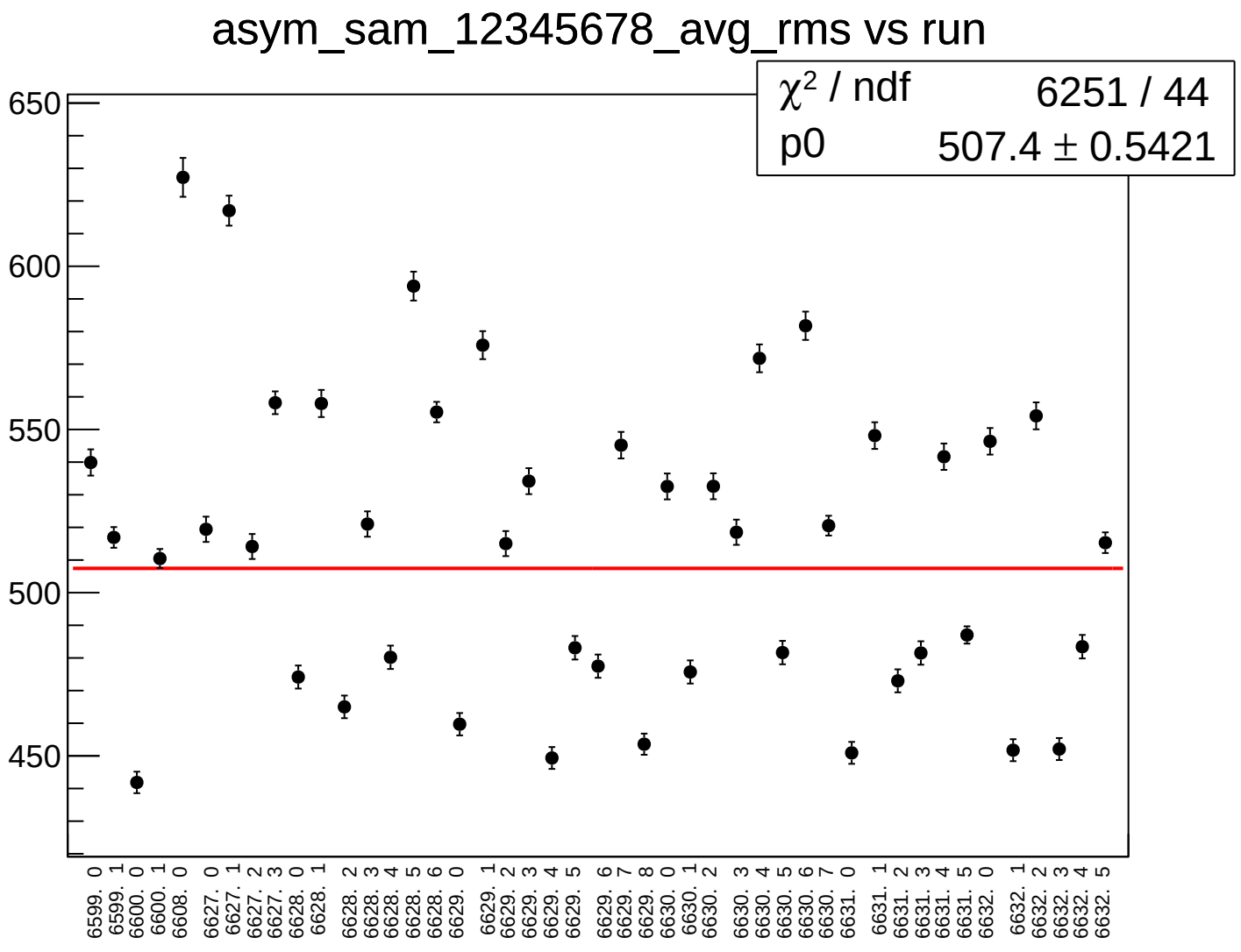
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

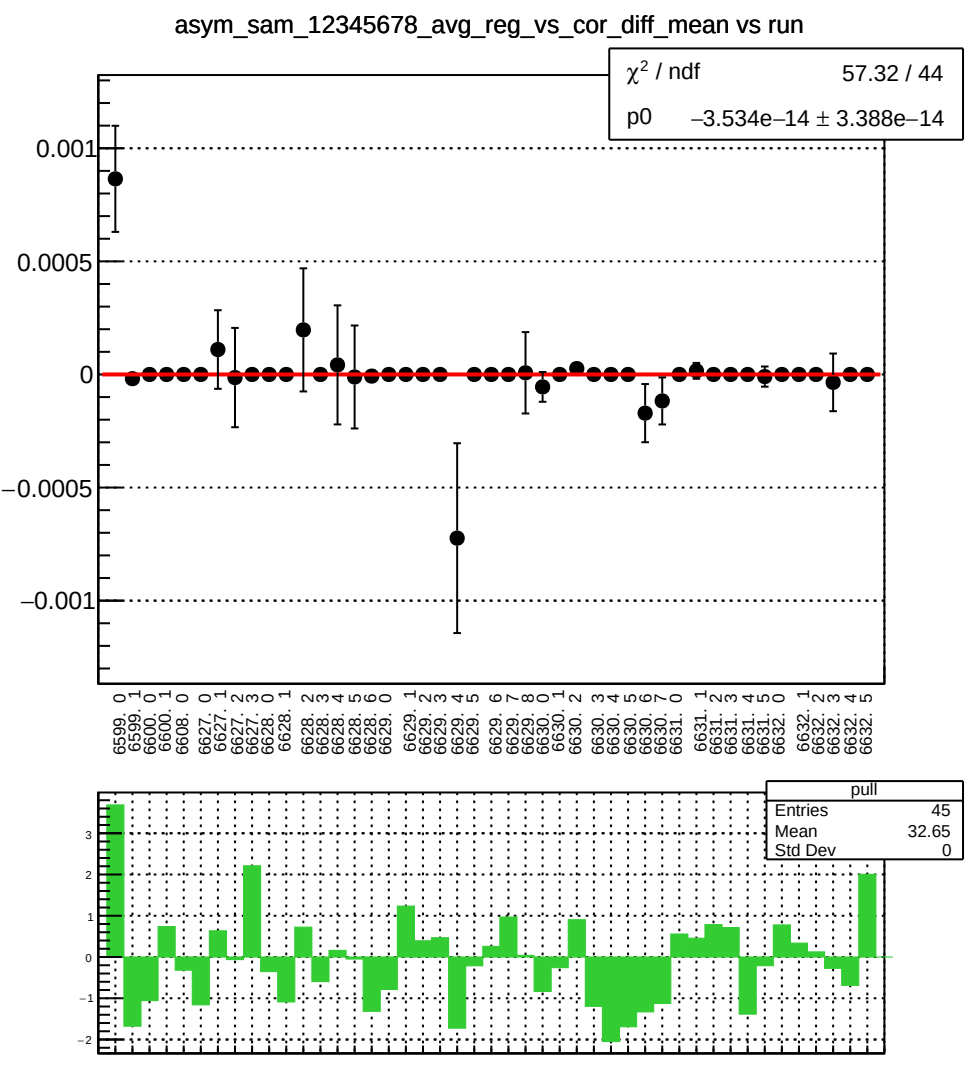

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 51.18 / 44
p0 1250 ± 741.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 80.75
Std Dev 0
2
1
0
−1
−2
−3

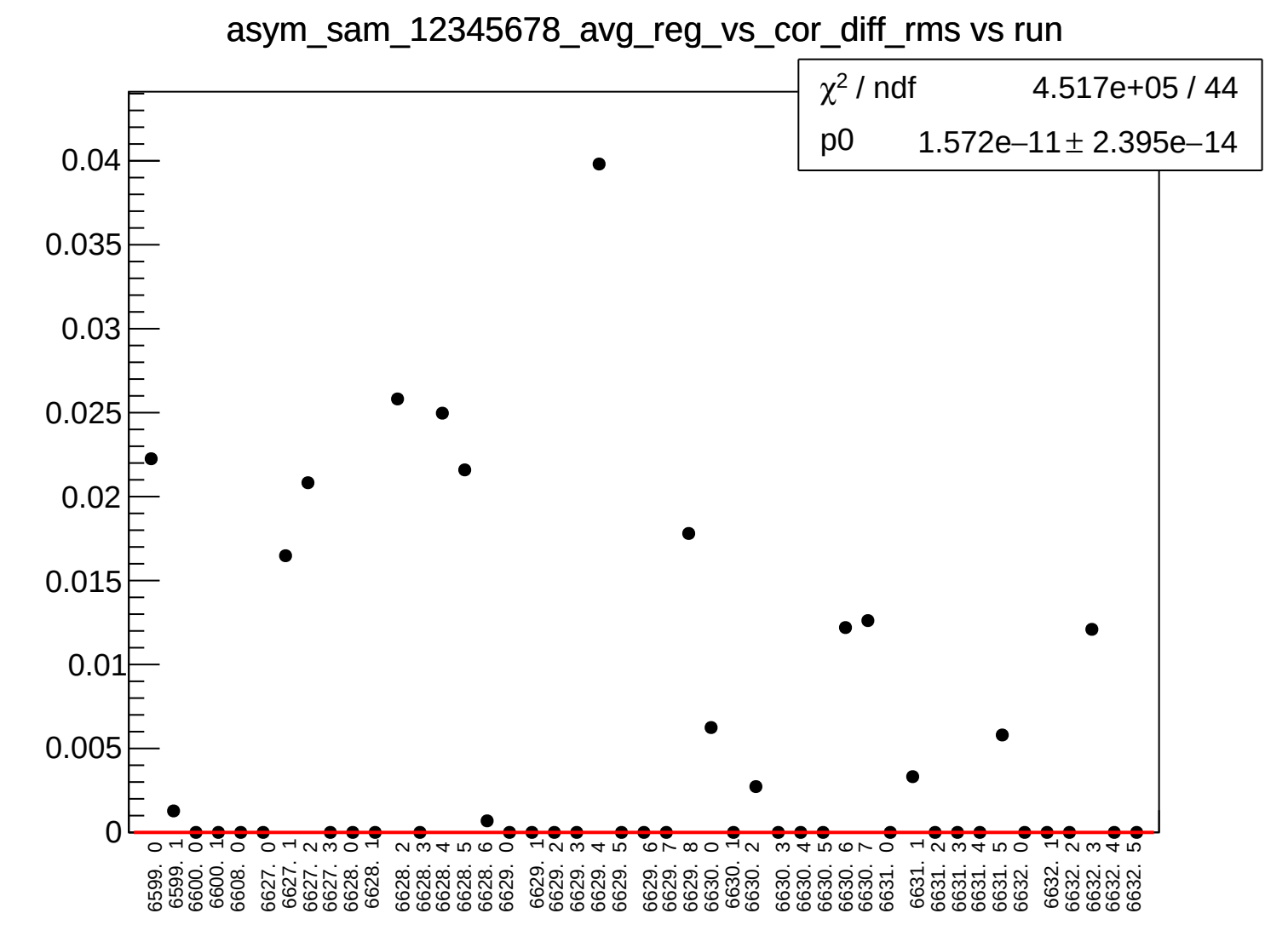

pull1D
Entries 45
Mean −0.01784
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

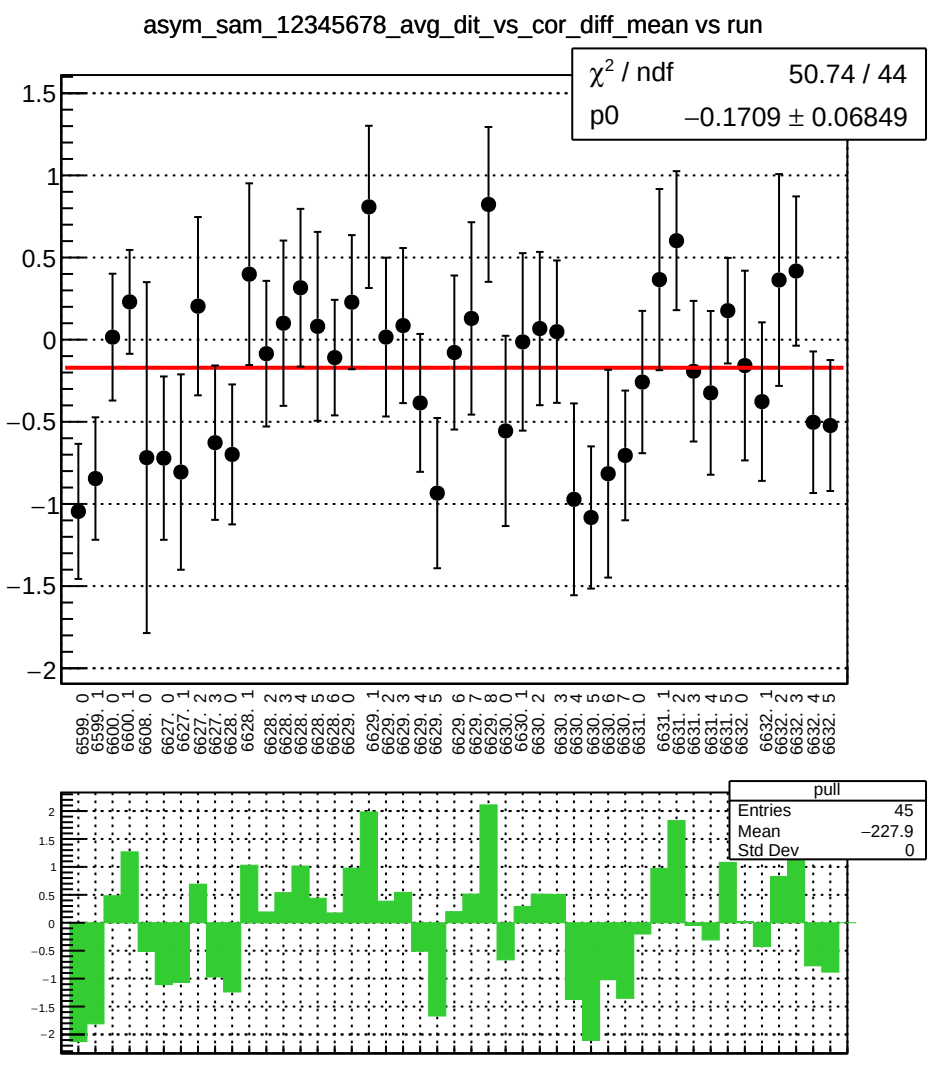

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 4368 / 44
p0 491.5 ± 0.5245
600
580
560
540
520
500
480
460
440
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

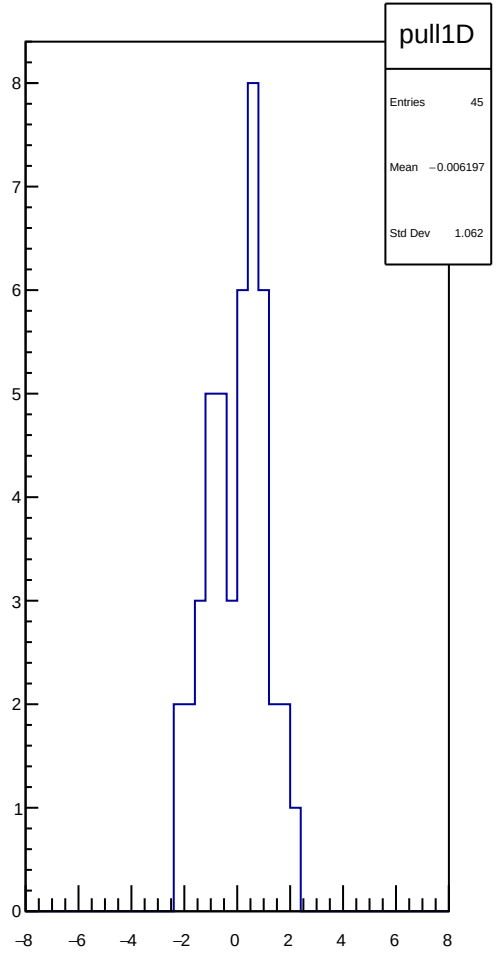

asym_sam_12345678_avg_mean vs run
χ² / ndf 52.16 / 44
p0 −1349 ± 766.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 93.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01765
Std Dev 1.076
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

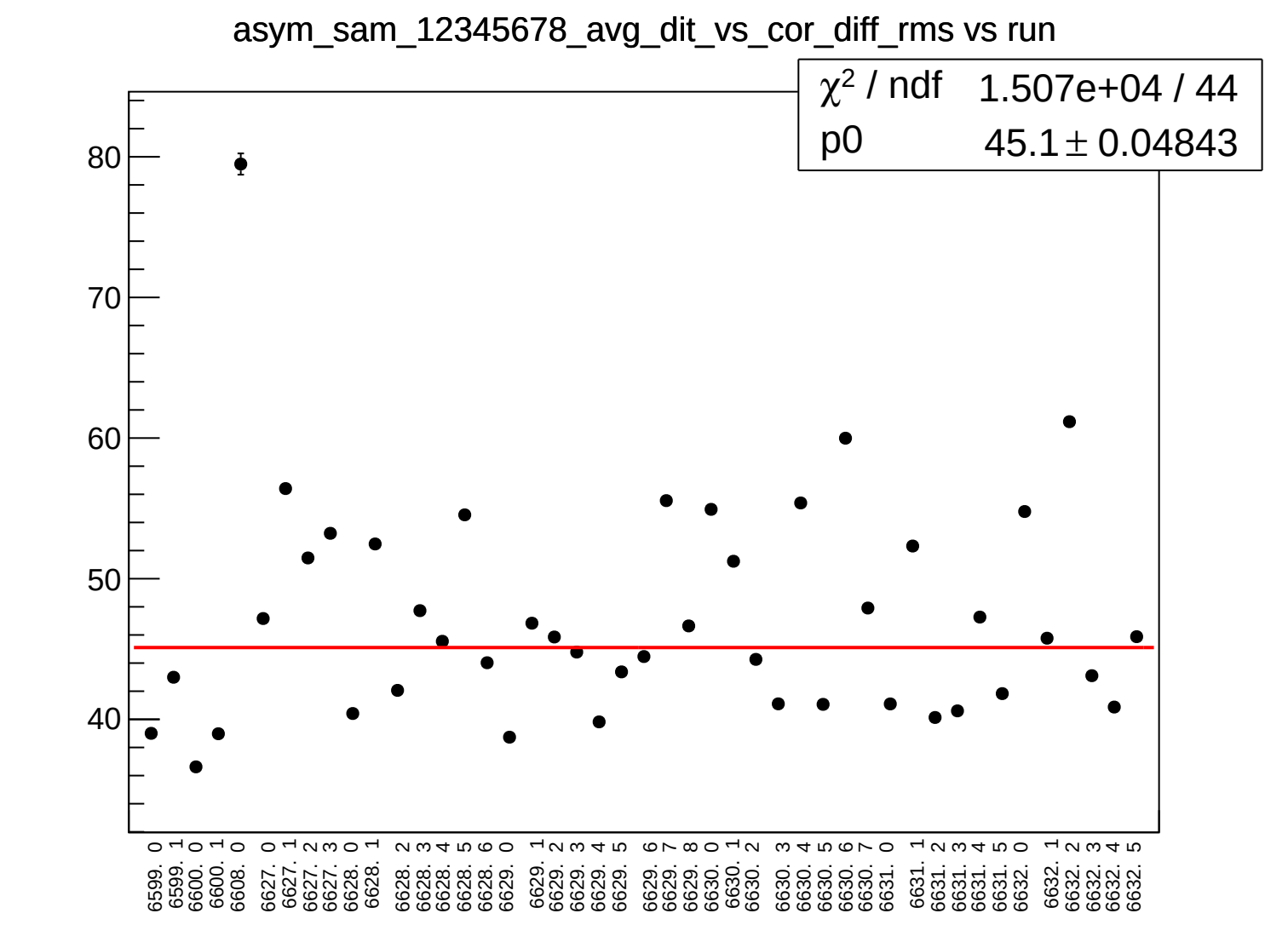

asym_sam_12345678_avg_rms vs run
χ² / ndf 6251 / 44
p0 507.4 ± 0.5421
650
600
550
500
450
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

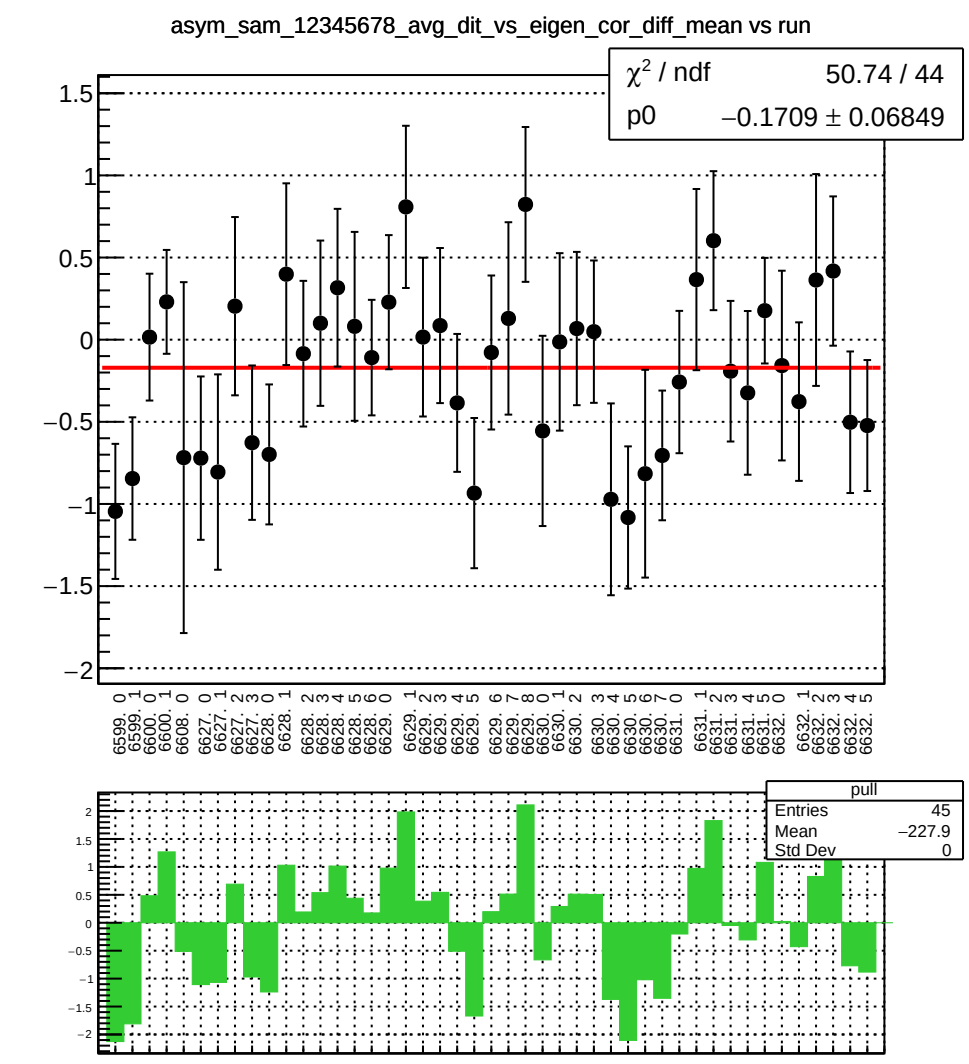

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 57.32 / 44
p0 −3.534e−14 ± 3.388e−14
0.001
0.0005
0
−0.0005
−0.001
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 32.65
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.0726
Std Dev 1.126
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

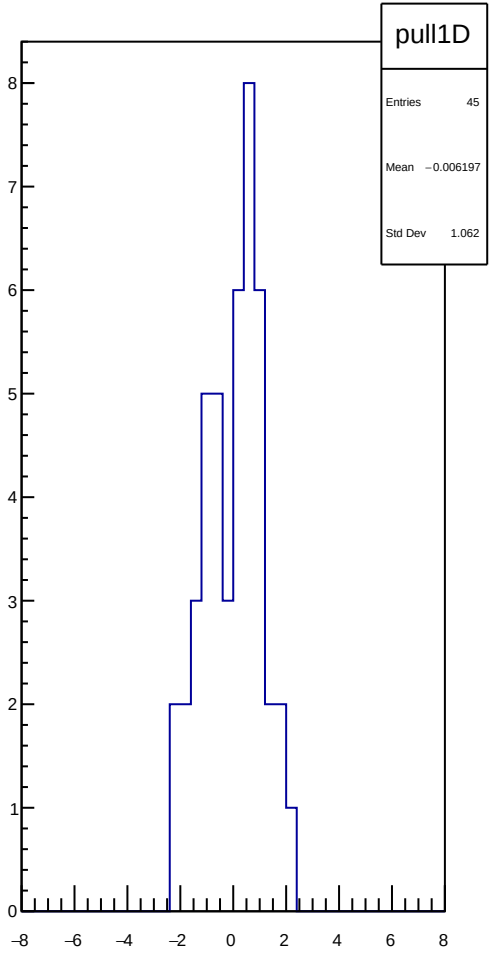

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.517e+05 / 44
p0 1.572e−11 ± 2.395e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

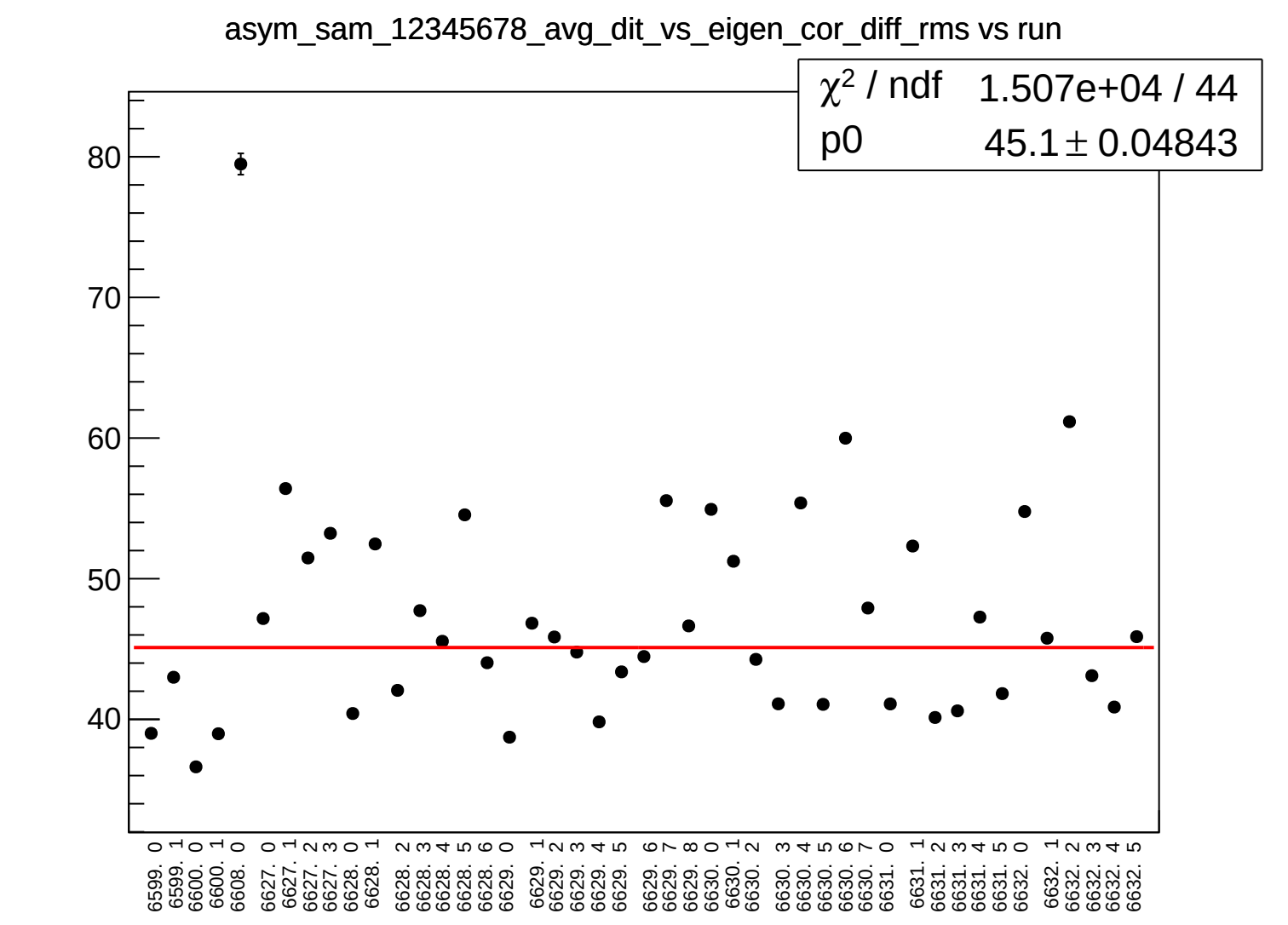

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 50.74 / 44
p0 −0.1709 ± 0.06849
1.5
1
0.5
0
−0.5
−1
−1.5
−2
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −227.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.006197
Std Dev 1.062
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 1.507e+04 / 44
p0 45.1 ± 0.04843
80
70
60
50
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.74 / 44
p0 −0.1709 ± 0.06849
pull
Entries 45
Mean −227.9
Std Dev 0


pull1D
Entries 45
Mean −0.006197
Std Dev 1.062


asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.507e+04 / 44
p0 45.1 ± 0.04843
80
70
60
50
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
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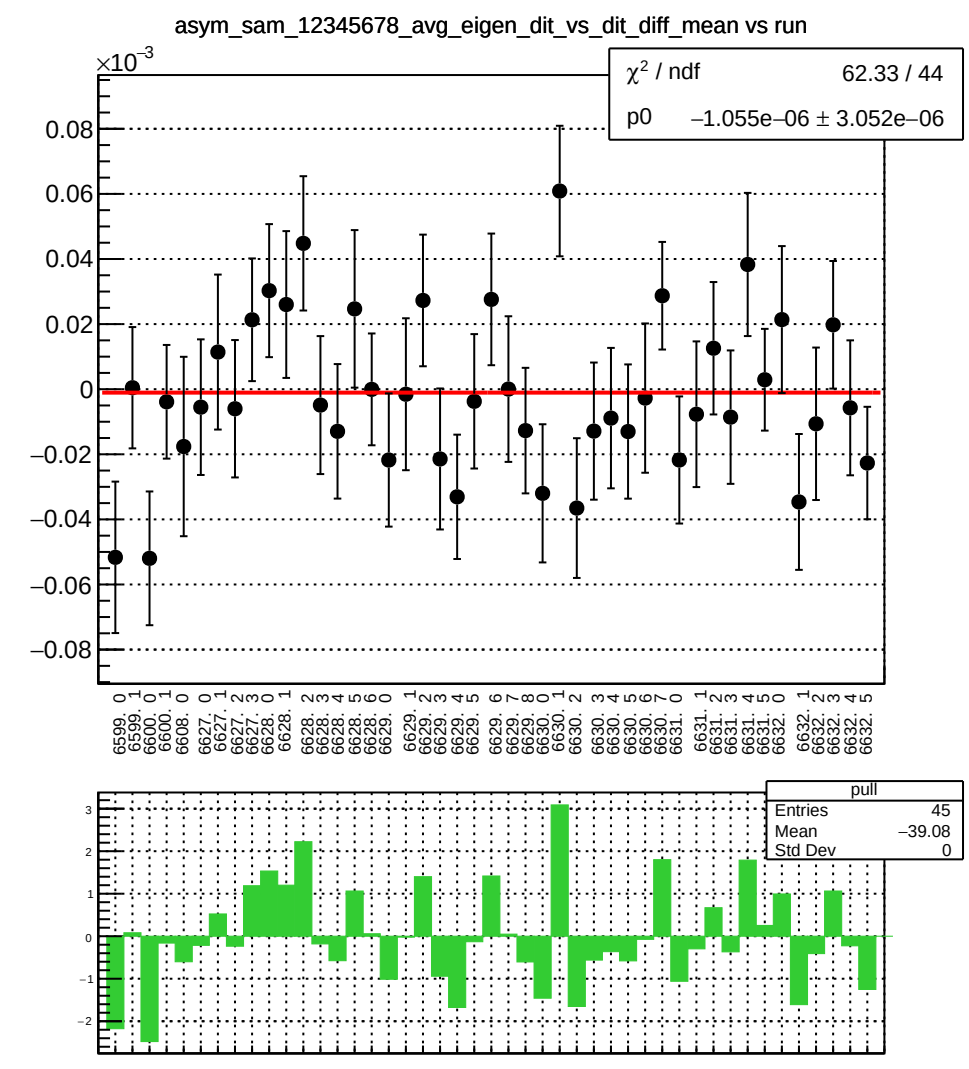
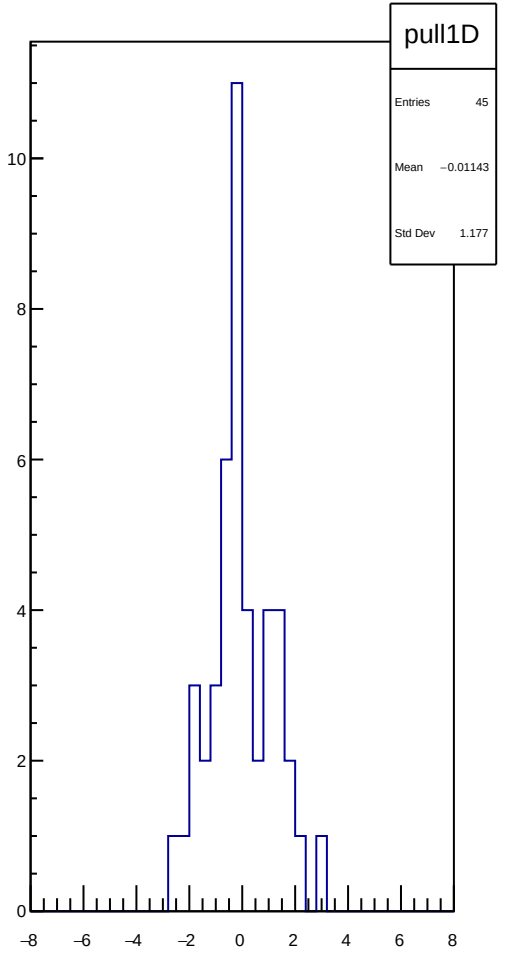
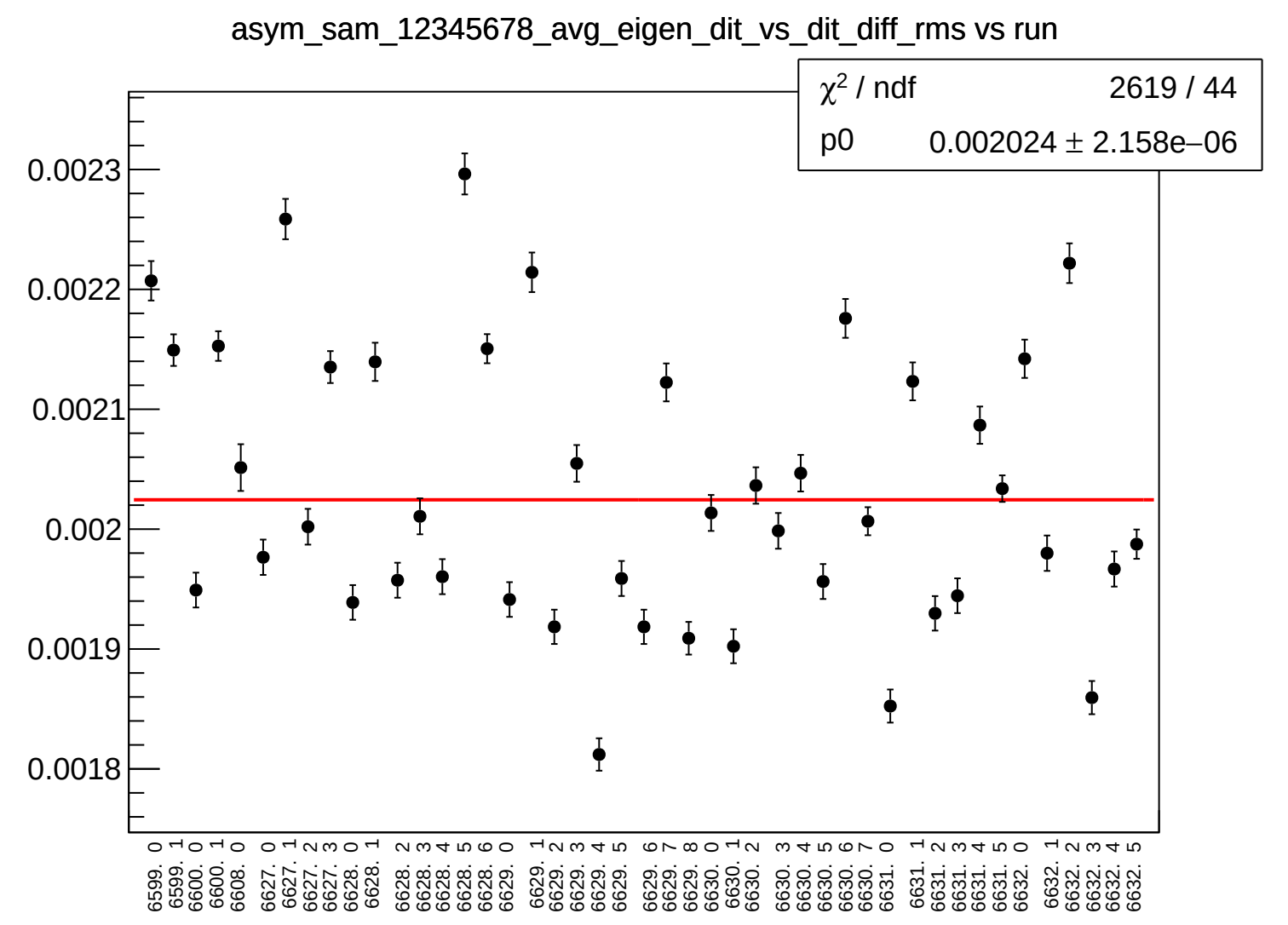
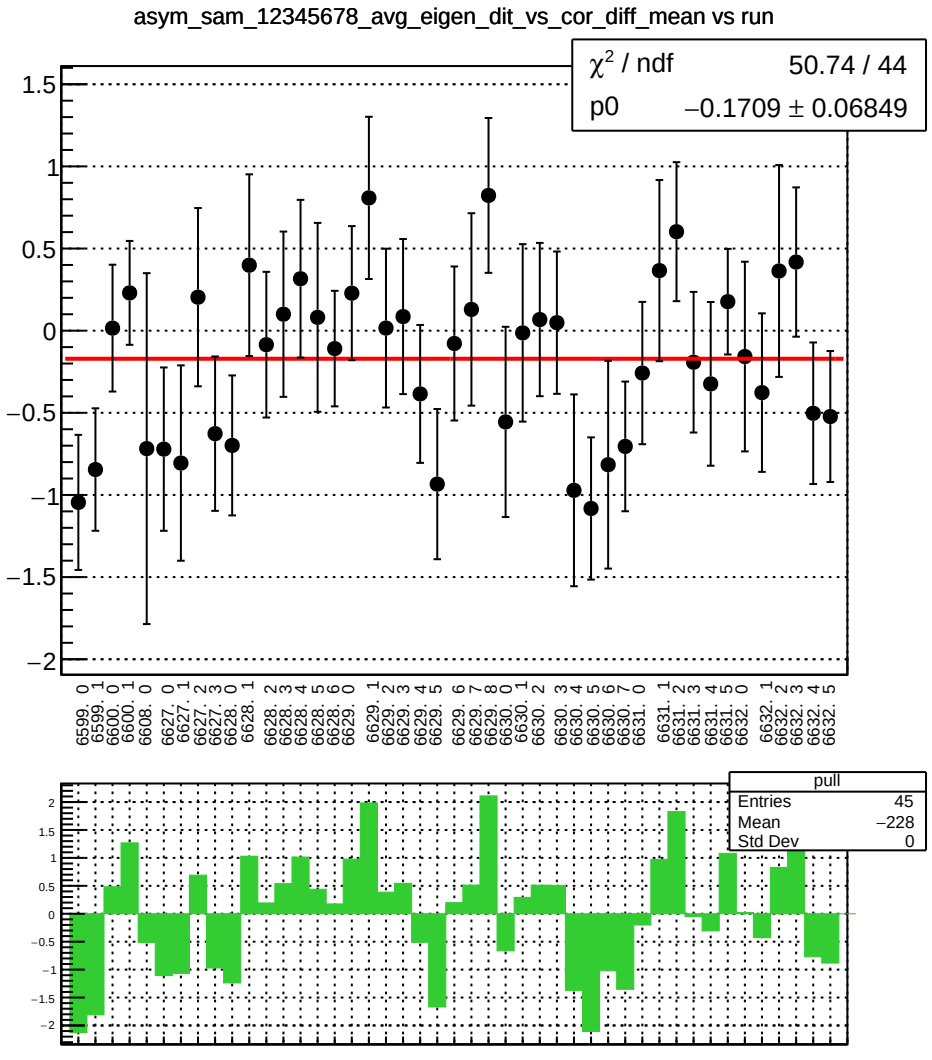
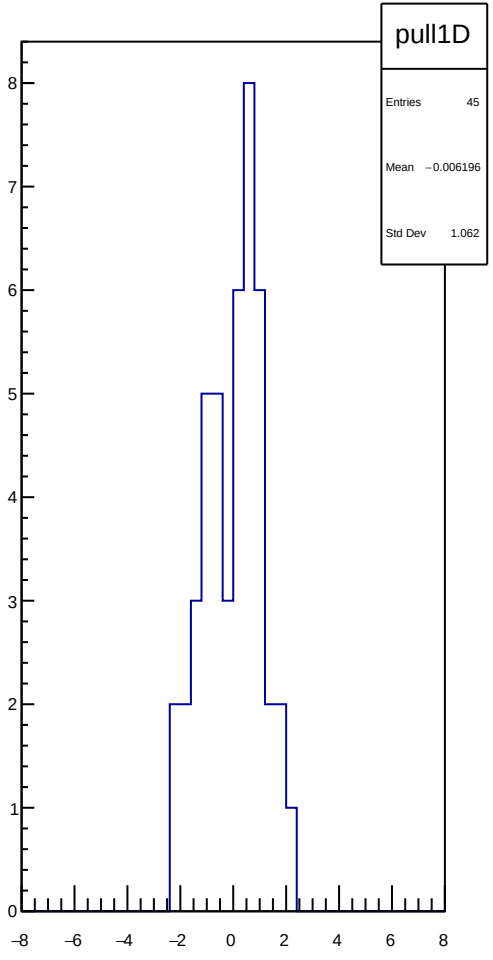
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

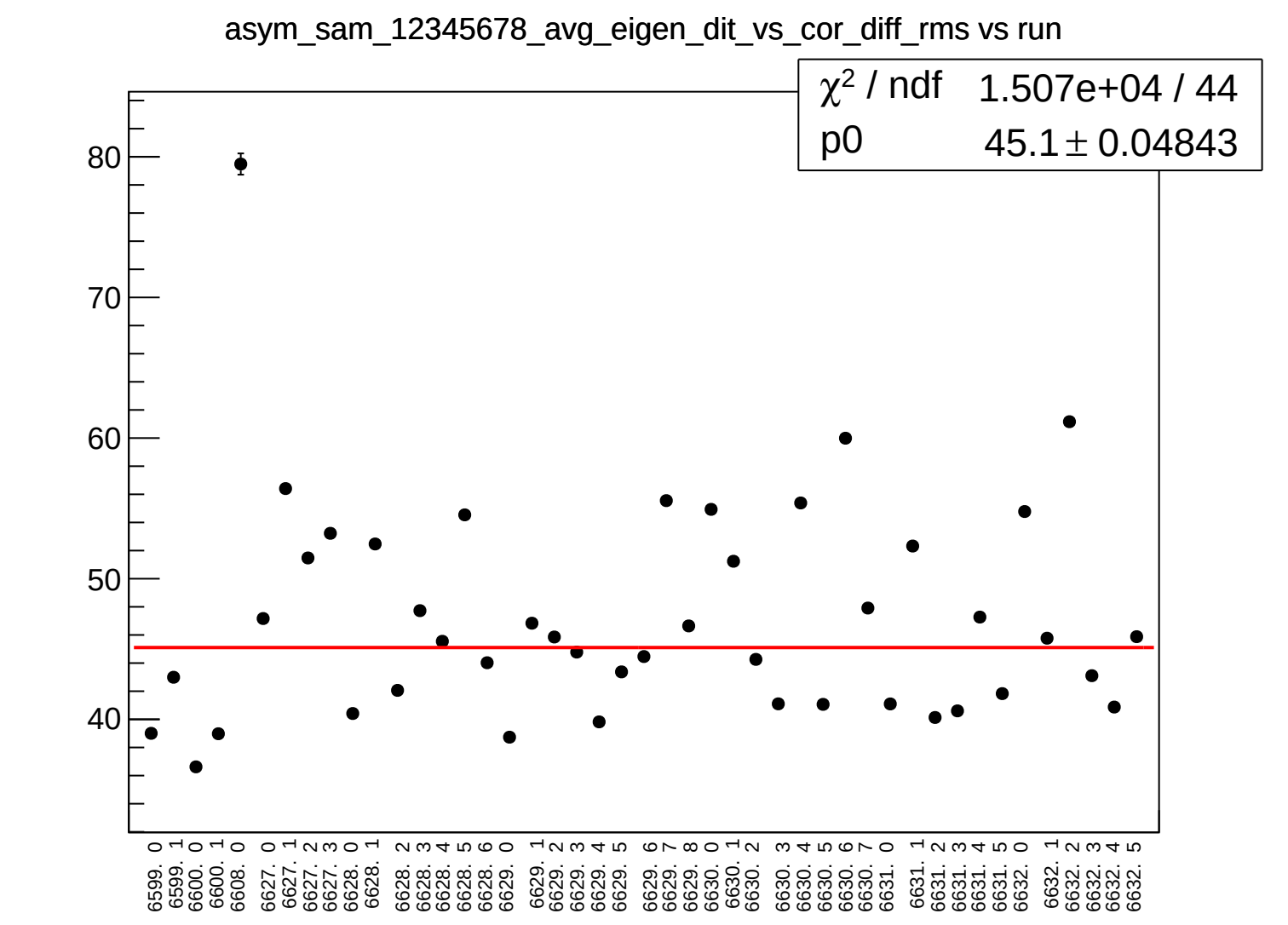

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 62.33 / 44
p0 −1.055e−06 ± 3.052e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −39.08
Std Dev 0
3
2
1
0
−1
−2

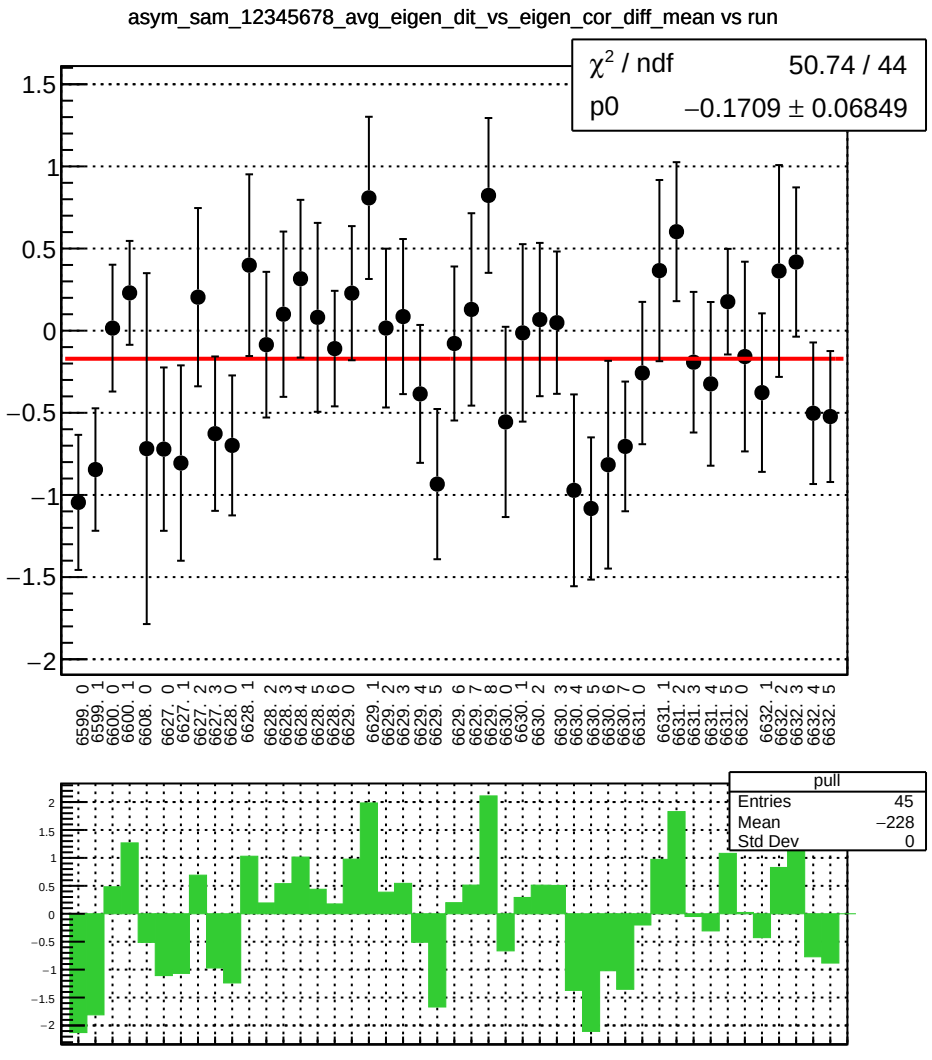

pull1D
Entries 45
Mean −0.01143
Std Dev 1.177
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

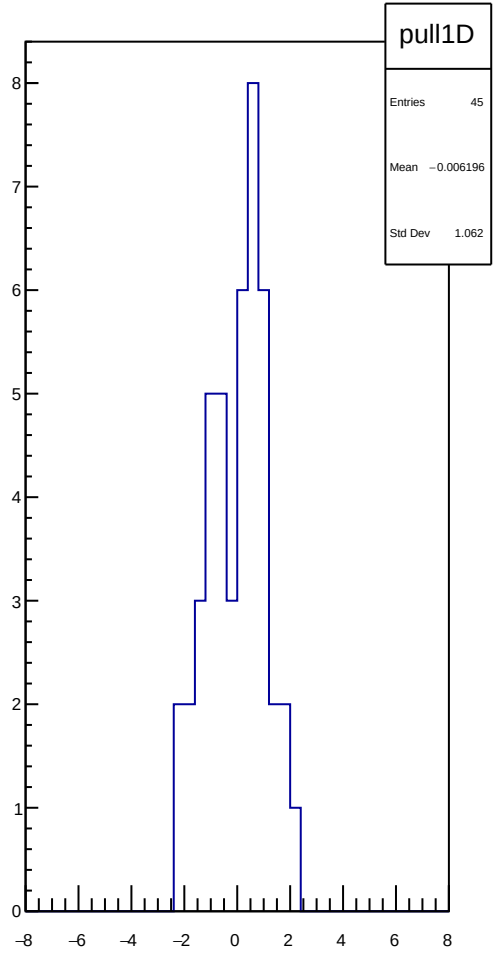

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2619 / 44
p0 0.002024 ± 2.158e−06
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5

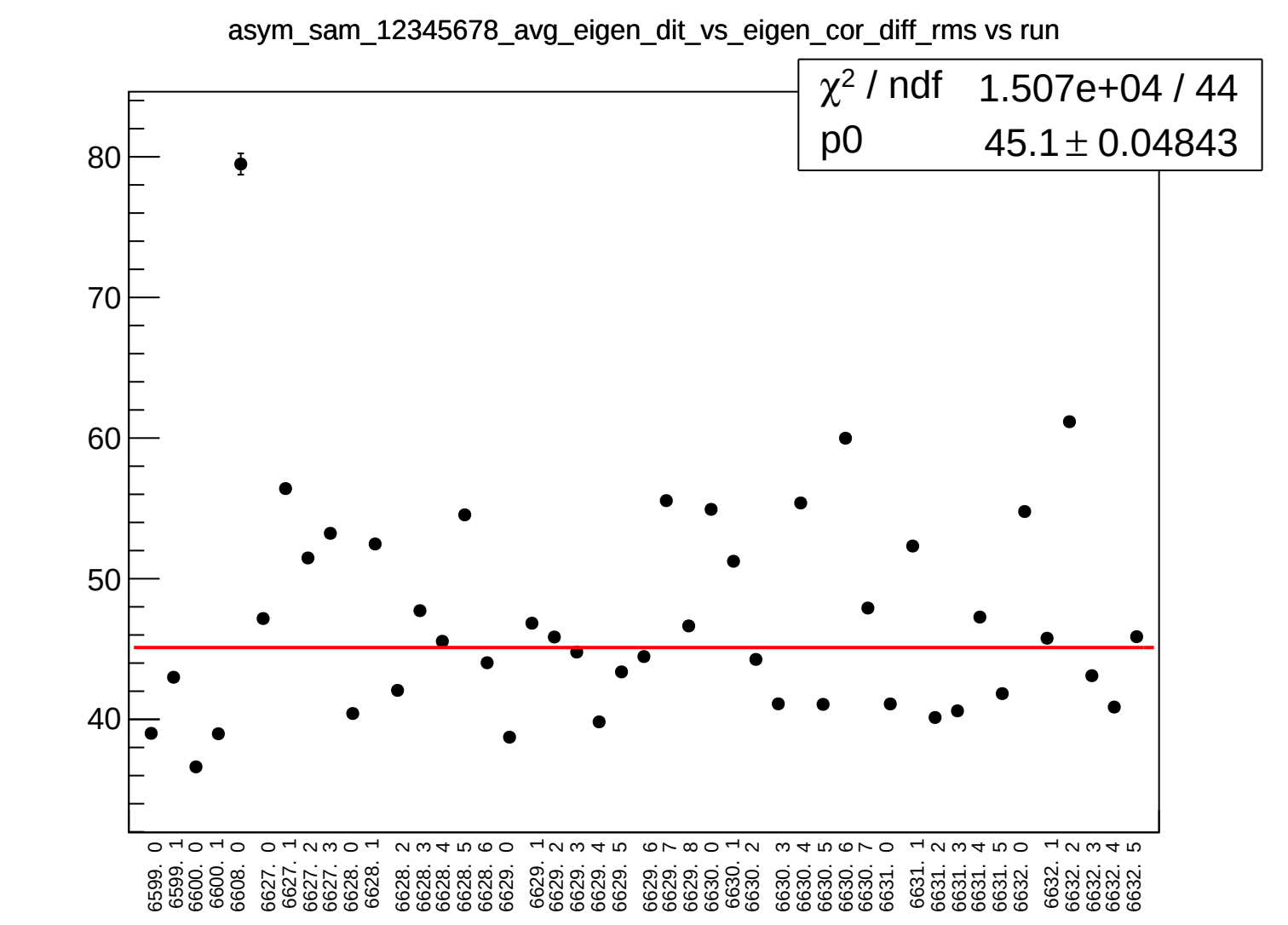

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 50.74 / 44
p0 −0.1709 ± 0.06849
pull
Entries 45
Mean −228
Std Dev 0


pull1D
Entries 45
Mean −0.006196
Std Dev 1.062


asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.507e+04 / 44
p0 45.1 ± 0.04843
80
70
60
50
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.74 / 44
p0 −0.1709 ± 0.06849
pull
Entries 45
Mean −228
Std Dev 0


pull1D
Entries 45
Mean −0.006196
Std Dev 1.062


asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.507e+04 / 44
p0 45.1 ± 0.04843
80
70
60
50
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
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6628. 6
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6629. 6
6629. 7
6629. 8
6630. 0
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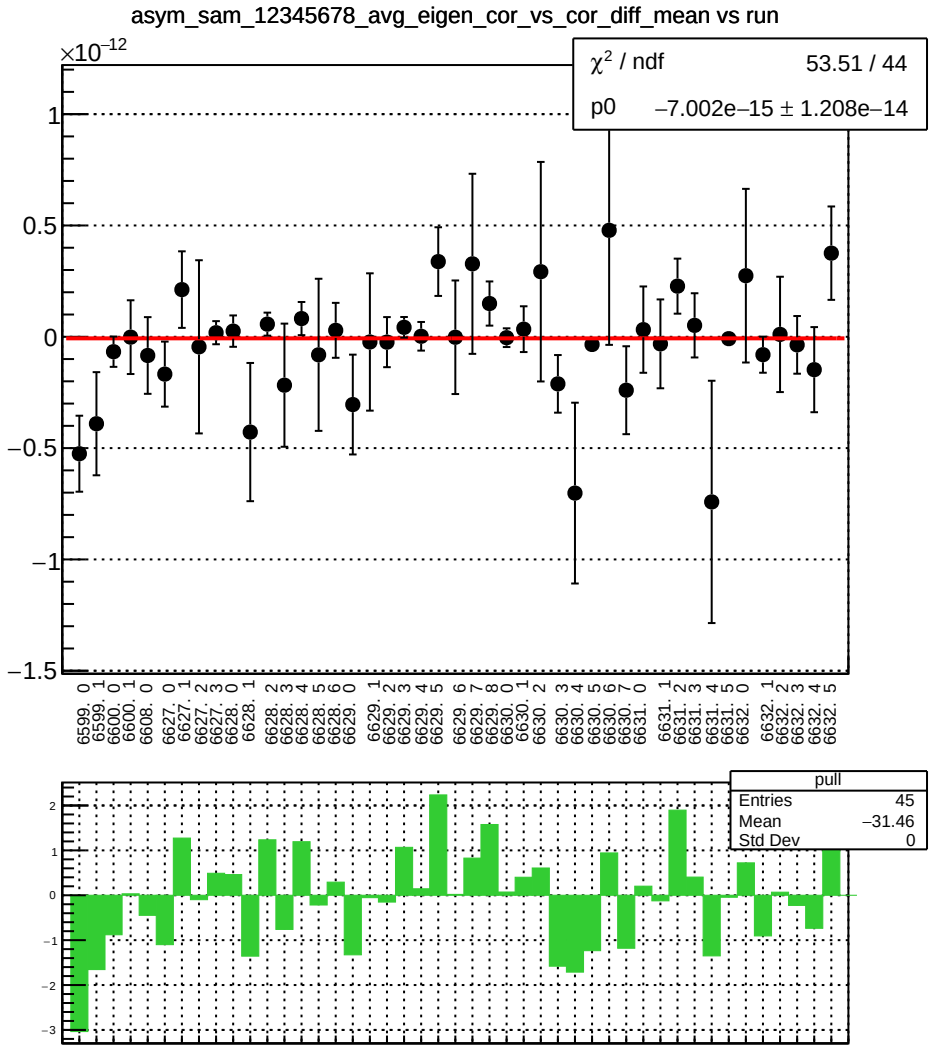
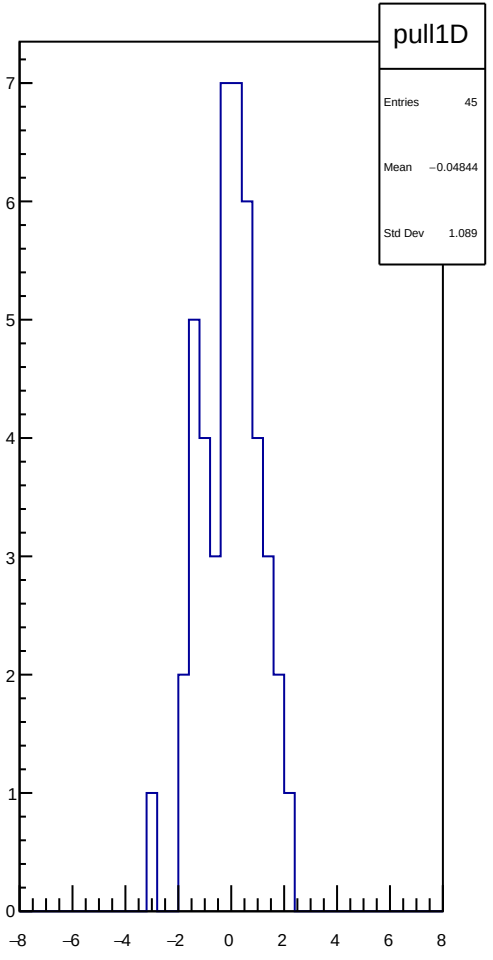
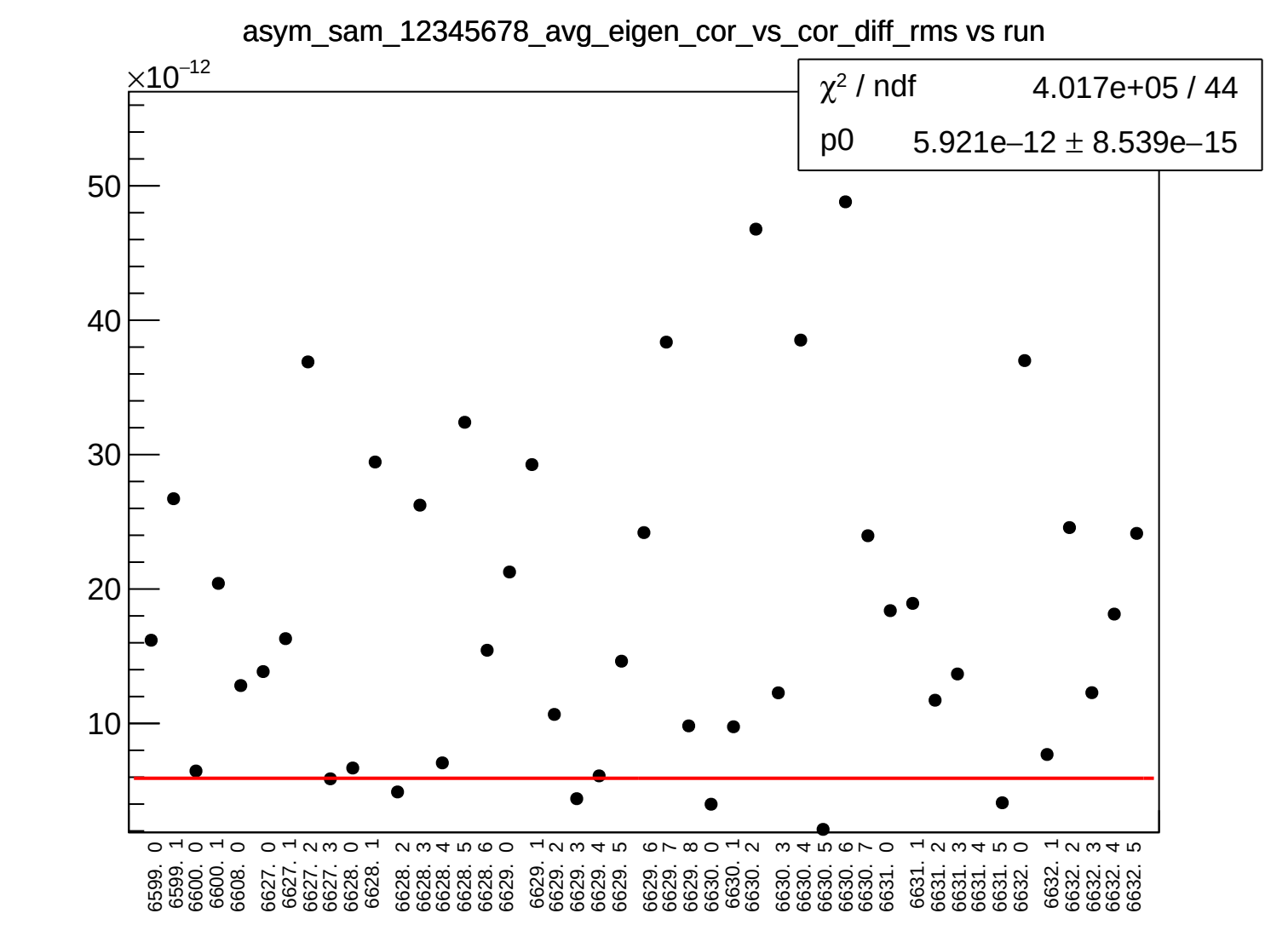
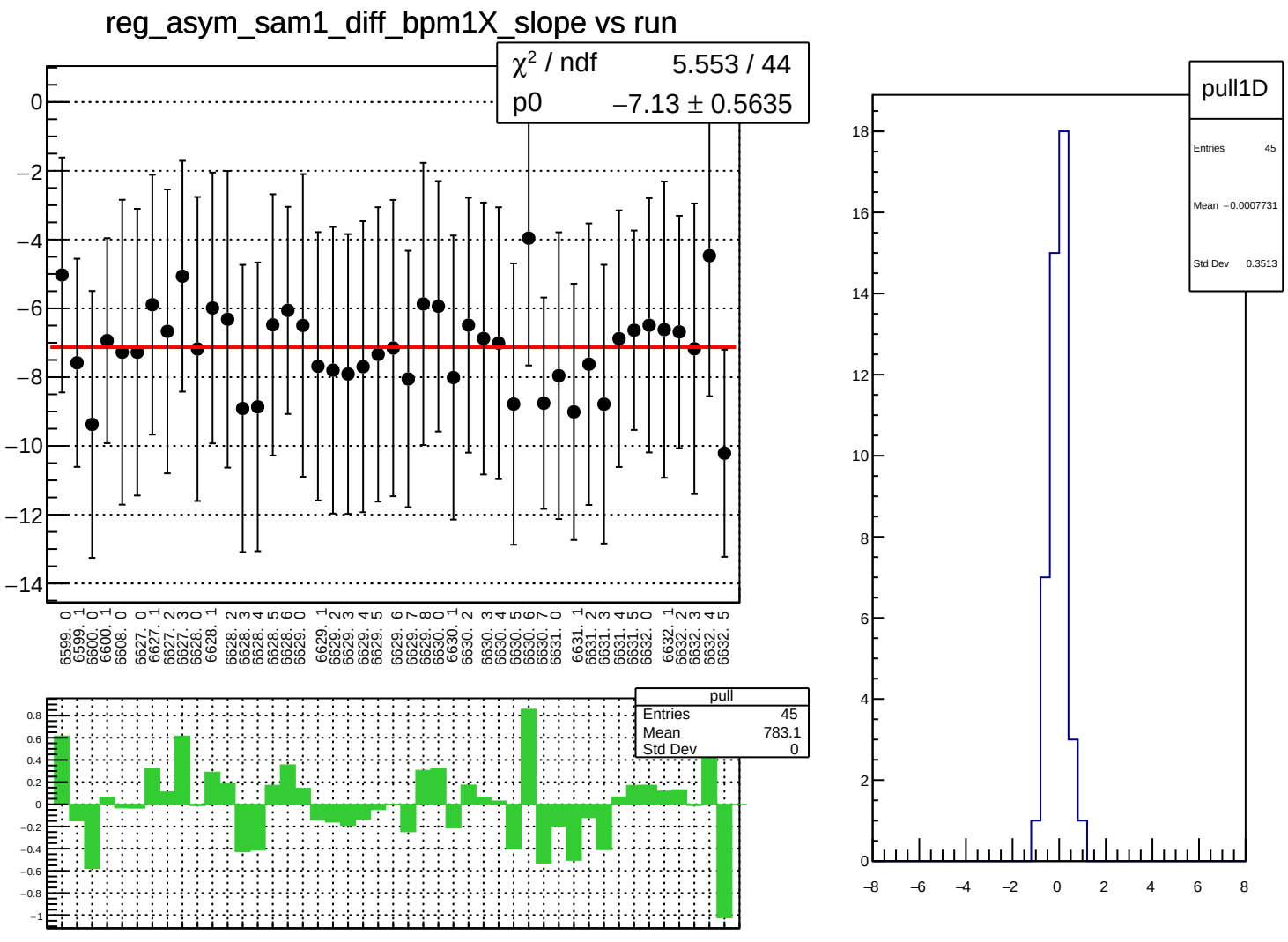
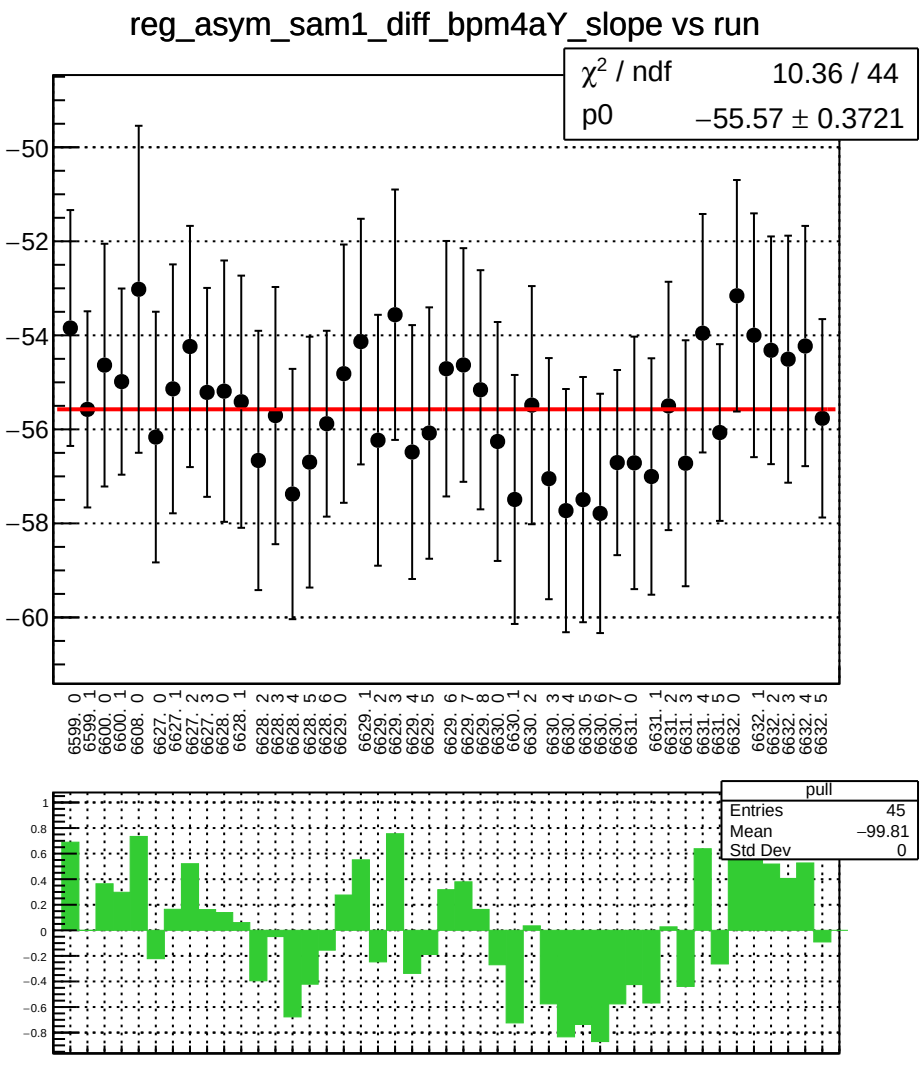
6632. 3
6632. 4
6632. 5


asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 53.51 / 44
p0 −7.002e−15 ± 1.208e−14
pull
Entries 45
Mean −31.46
Std Dev 0


pull1D
Entries 45
Mean −0.04844
Std Dev 1.089


asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.017e+05 / 44
p0 5.921e−12 ± 8.539e−15
50
40
30
20
10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5


reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 5.553 / 44
p0 −7.13 ± 0.5635
pull
Entries 45
Mean 783.1
Std Dev 0
pull1D
Entries 45
Mean −0.0007731
Std Dev 0.3513


reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 10.36 / 44
p0 −55.57 ± 0.3721
−50
−52
−54
−56
−58
−60
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
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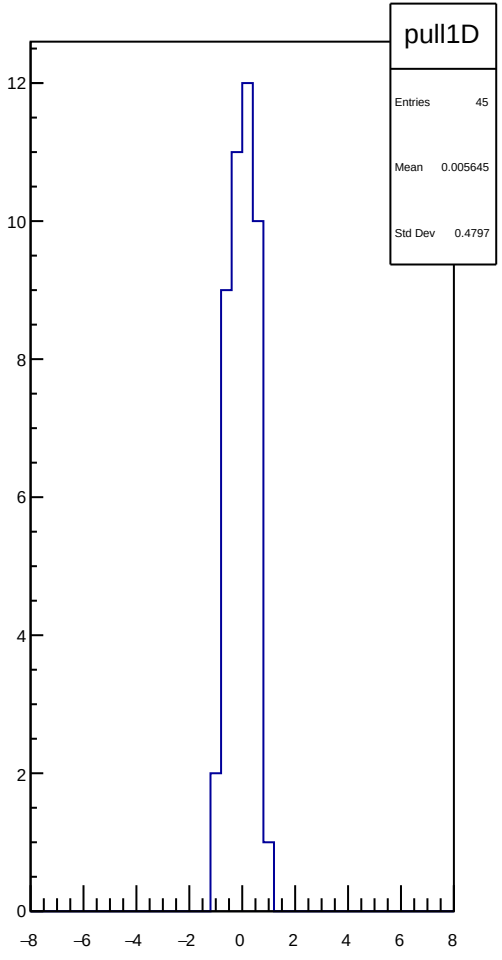
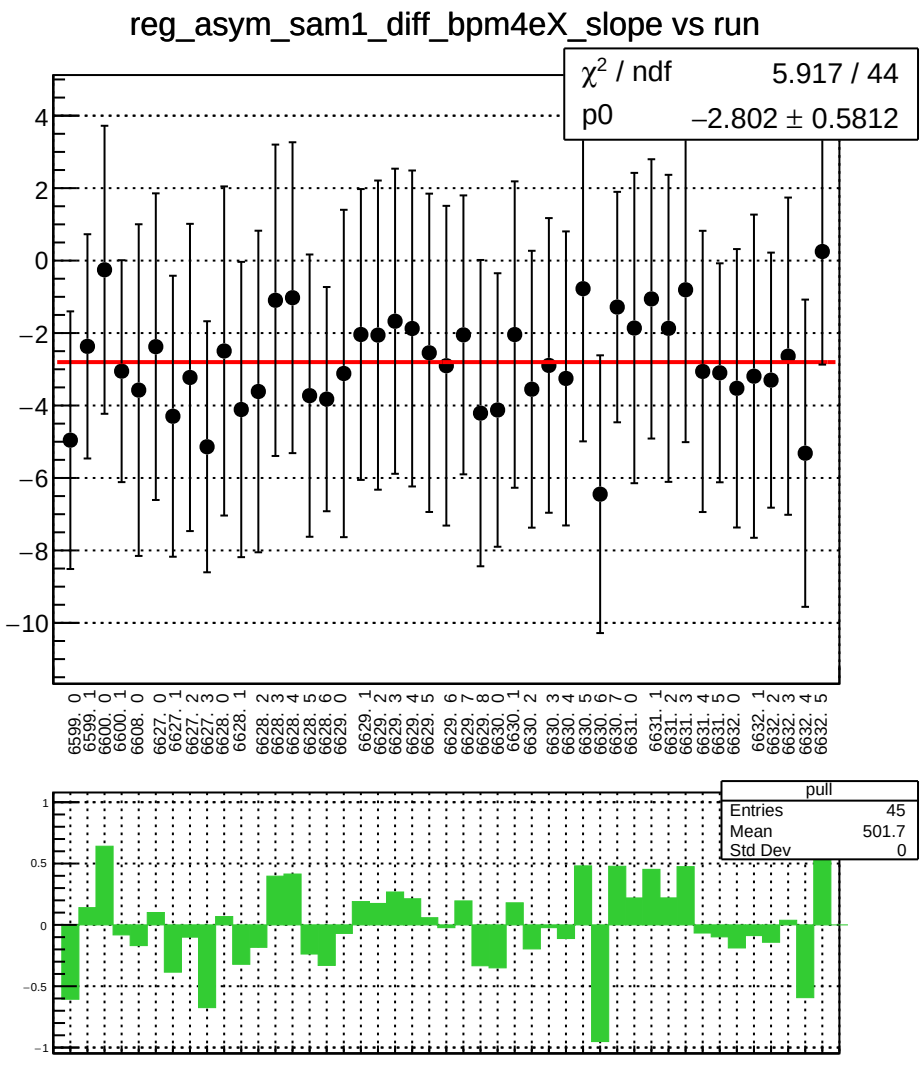
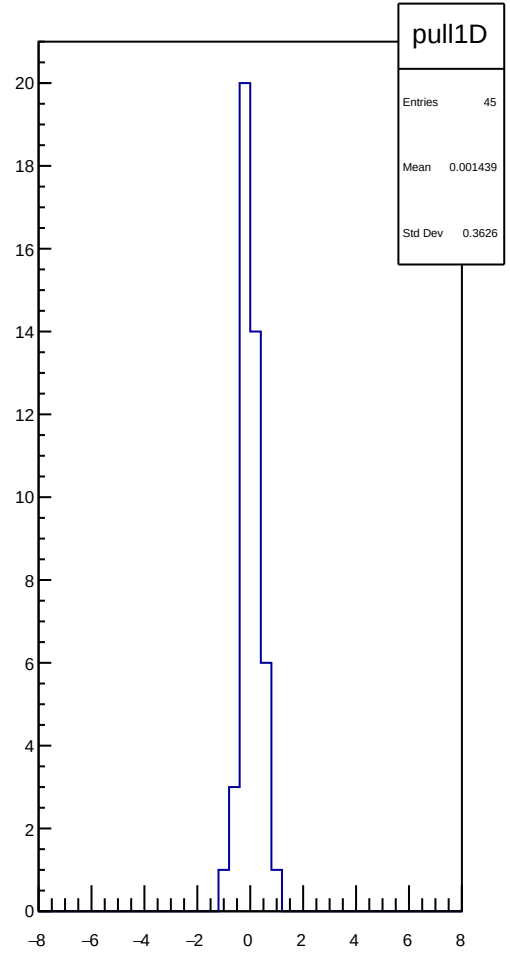
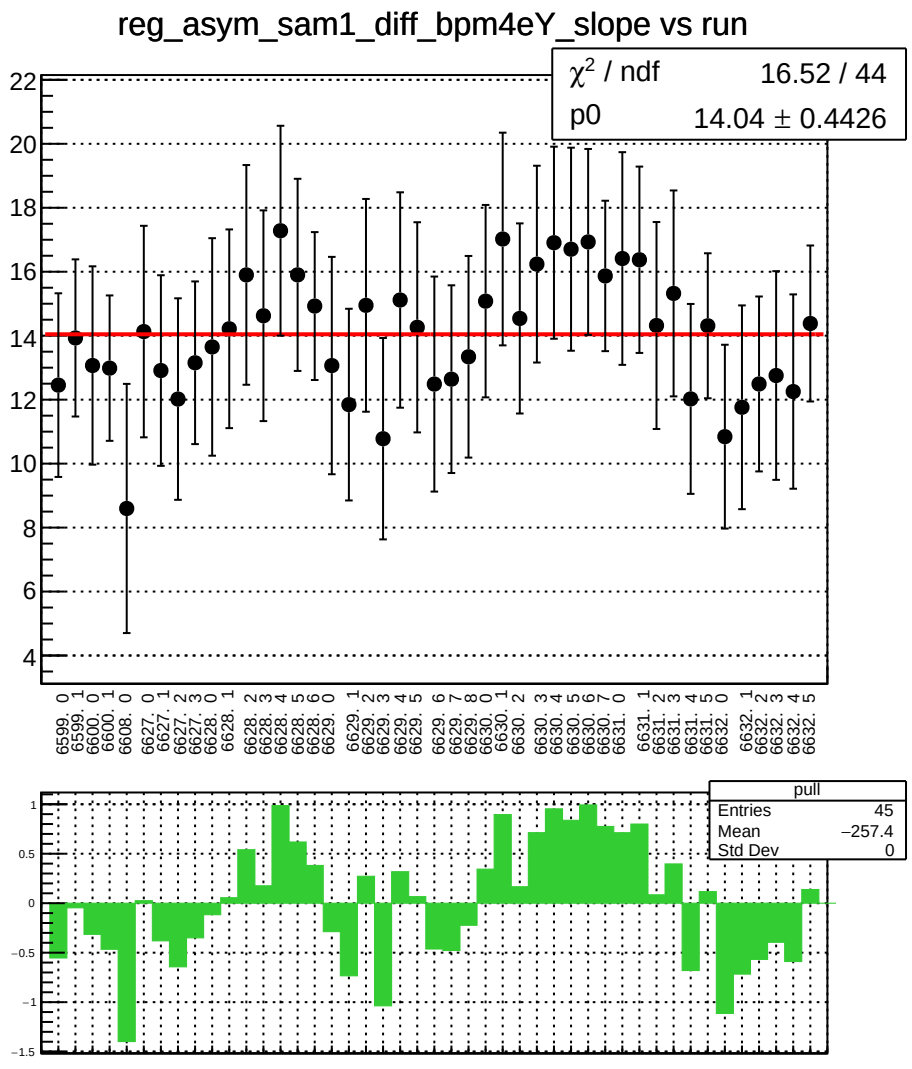
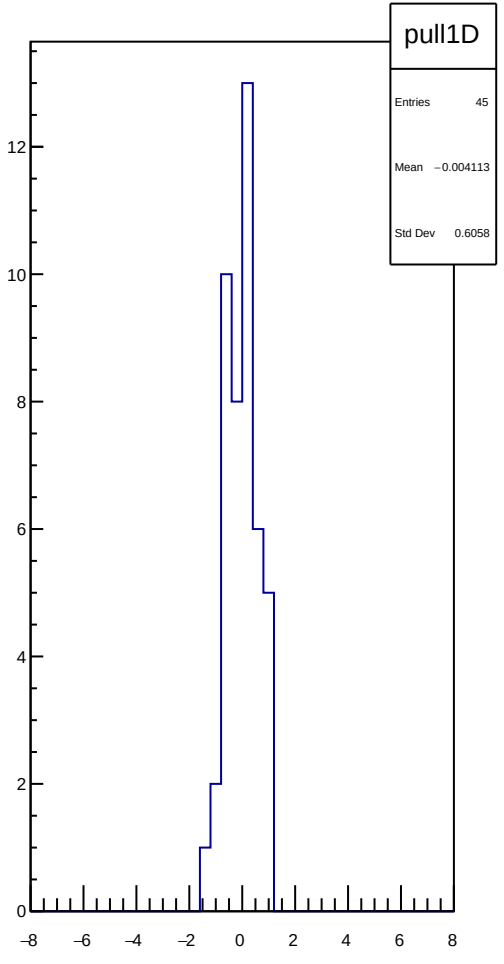
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −99.81
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

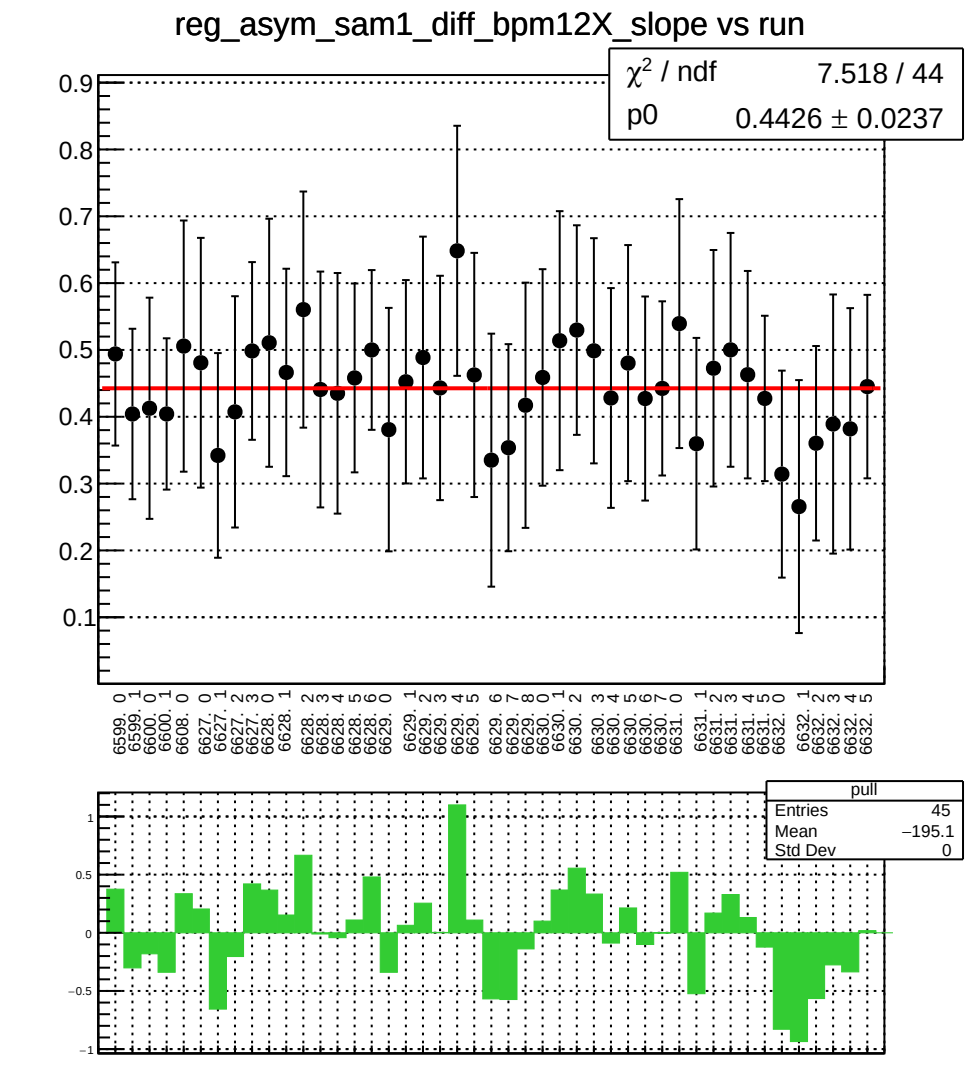

pull1D
Entries 45
Mean 0.005645
Std Dev 0.4797
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

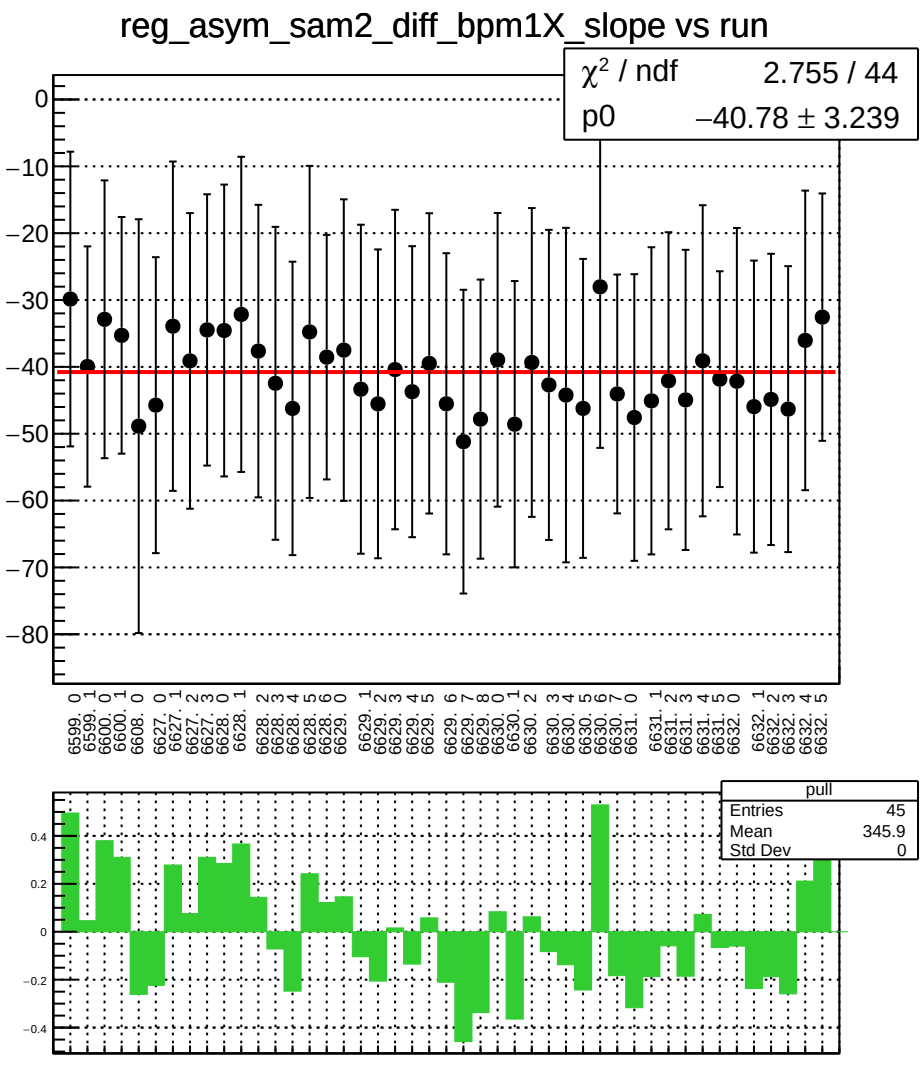

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 5.917 / 44
p0 −2.802 ± 0.5812
pull
Entries 45
Mean 501.7
Std Dev 0

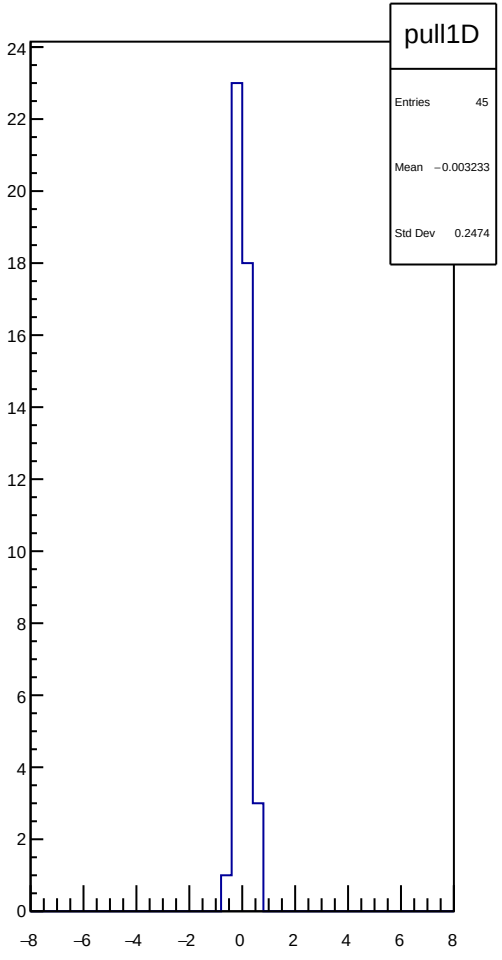

pull1D
Entries 45
Mean 0.001439
Std Dev 0.3626

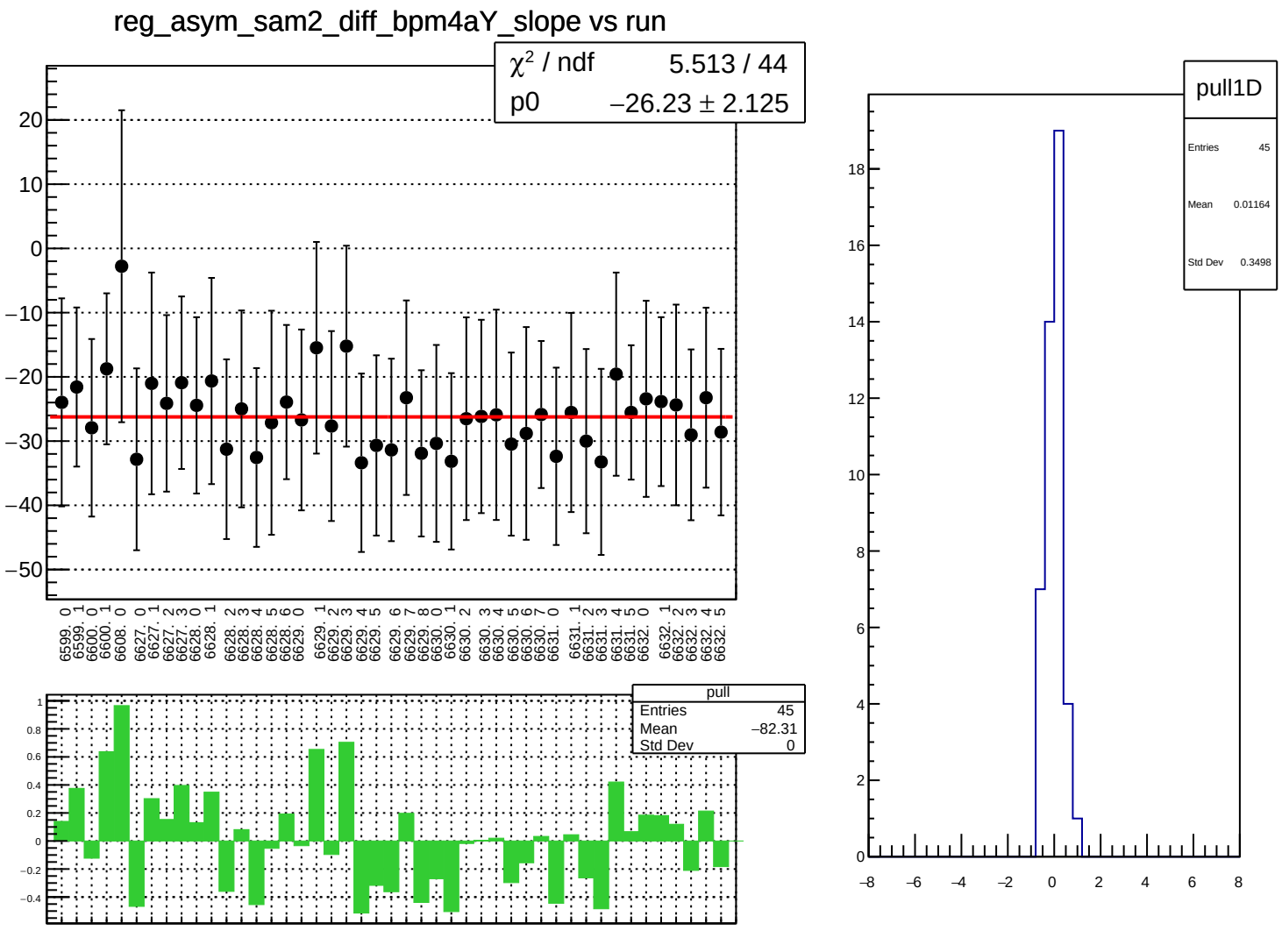

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 16.52 / 44
p0 14.04 ± 0.4426
pull
Entries 45
Mean −257.4
Std Dev 0

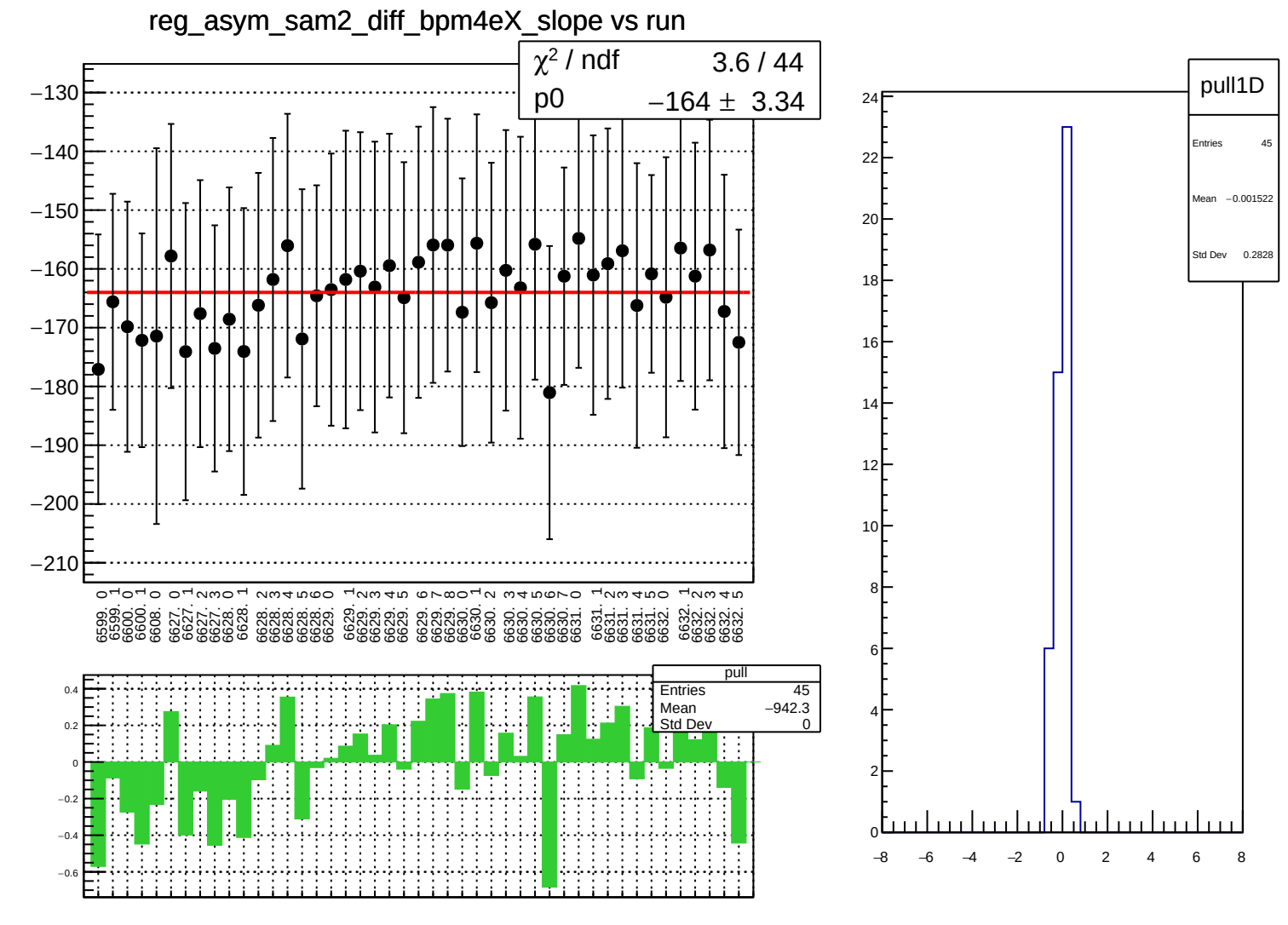

pull1D
Entries 45
Mean −0.004113
Std Dev 0.6058

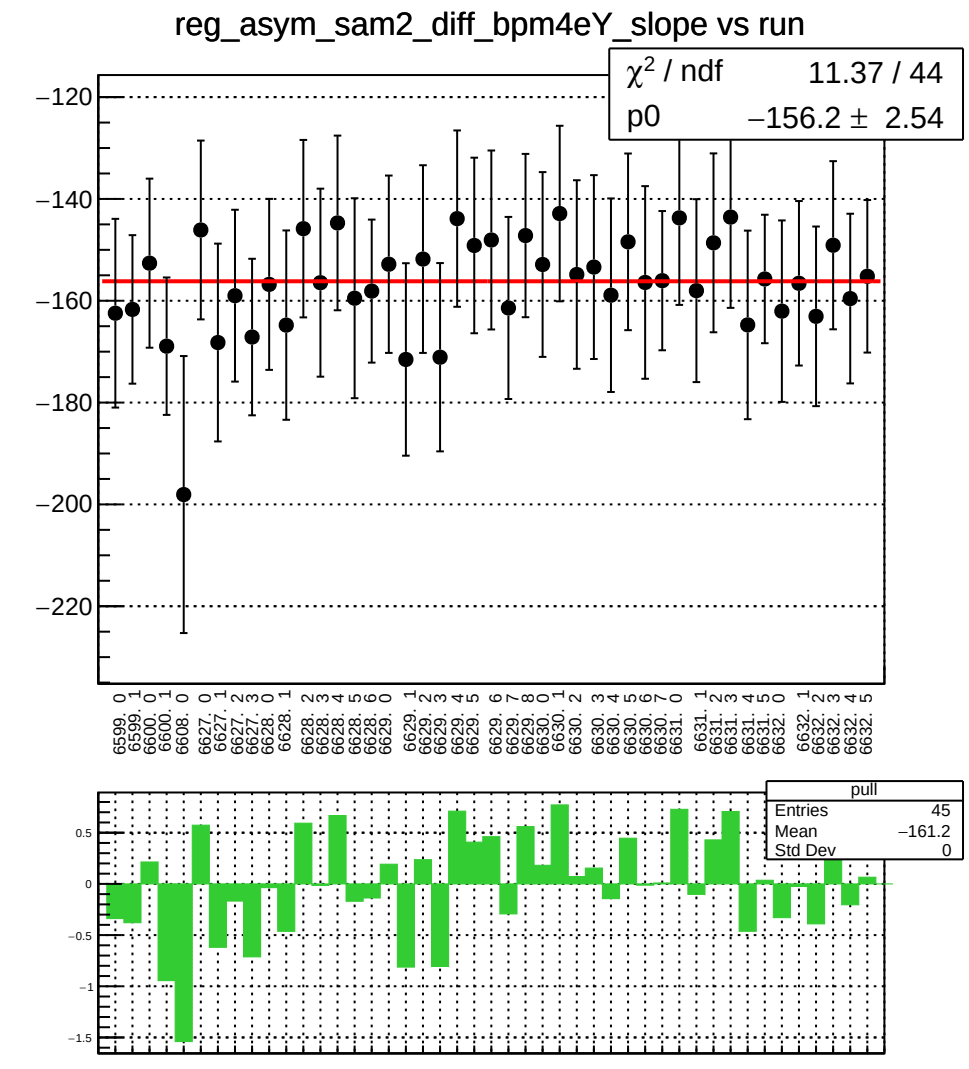

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 7.518 / 44
p0 0.4426 ± 0.0237
pull
Entries 45
Mean −195.1
Std Dev 0
pull1D
Entries 45
Mean 0.005592
Std Dev 0.4087

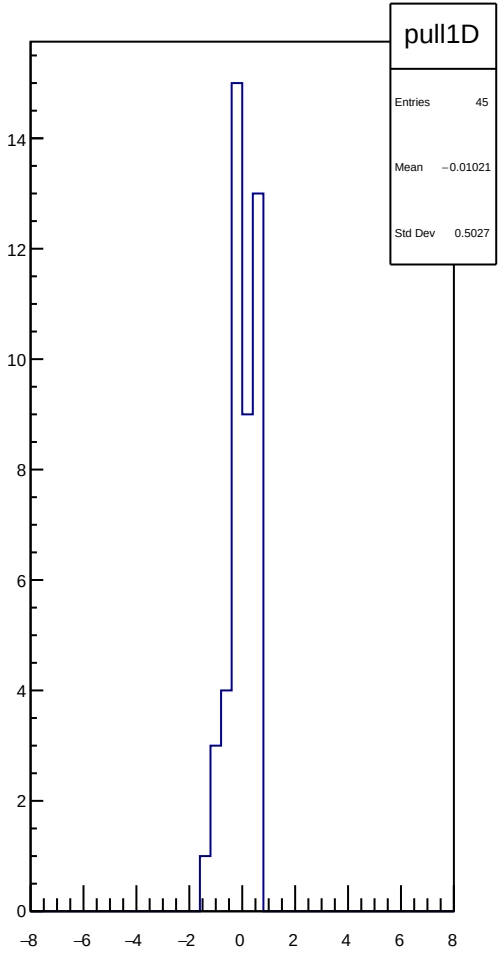

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 2.755 / 44
p0 −40.78 ± 3.239
0
−10
−20
−30
−40
−50
−60
−70
−80
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 345.9
Std Dev 0
0.4
0.2
0
−0.2
−0.4

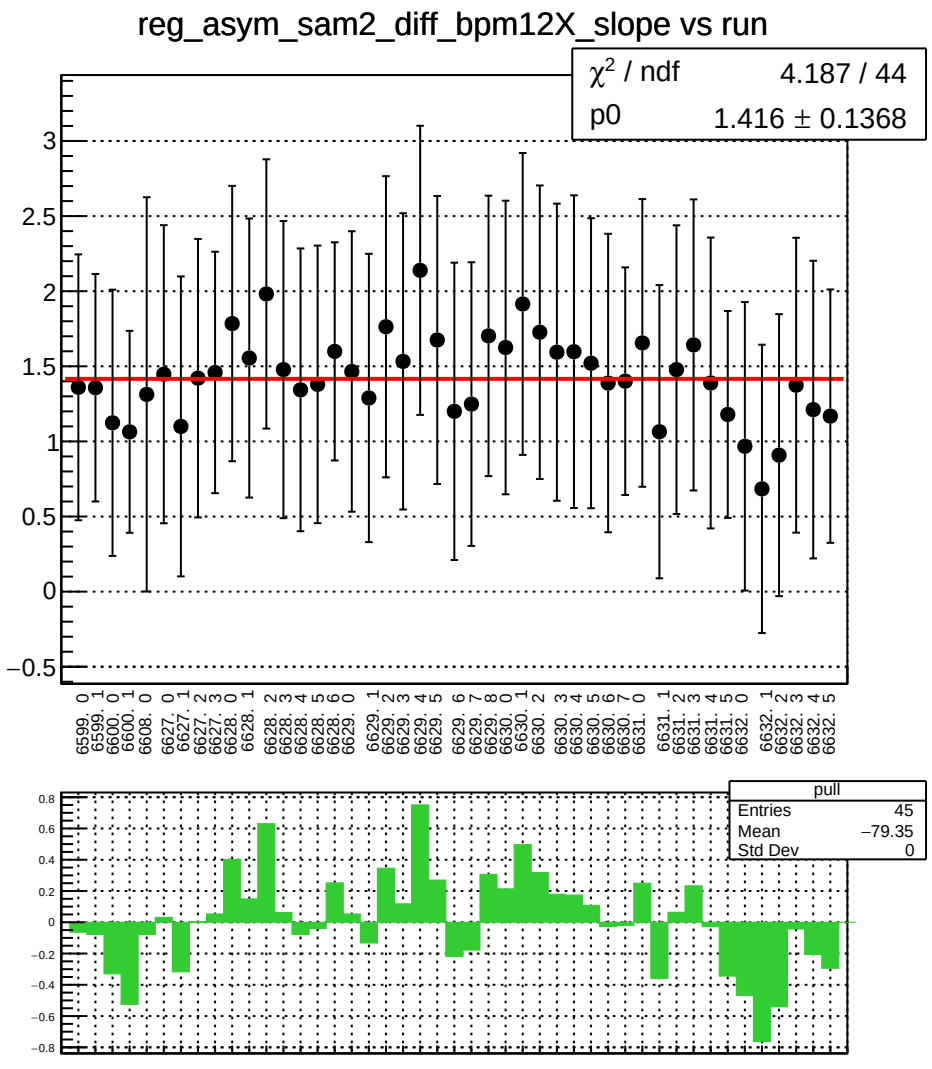

pull1D
Entries 45
Mean −0.003233
Std Dev 0.2474
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

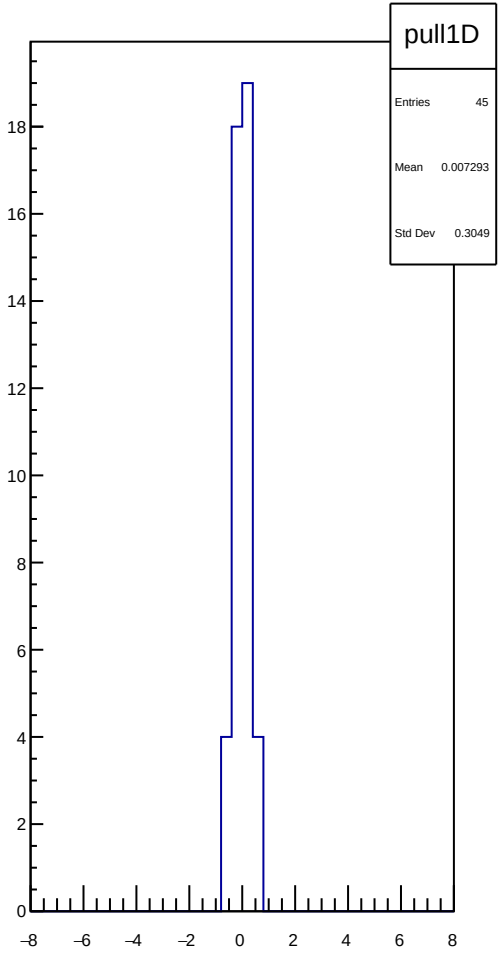

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 5.513 / 44
p0 −26.23 ± 2.125
20
10
0
−10
−20
−30
−40
−50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −82.31
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 45
Mean 0.01164
Std Dev 0.3498
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

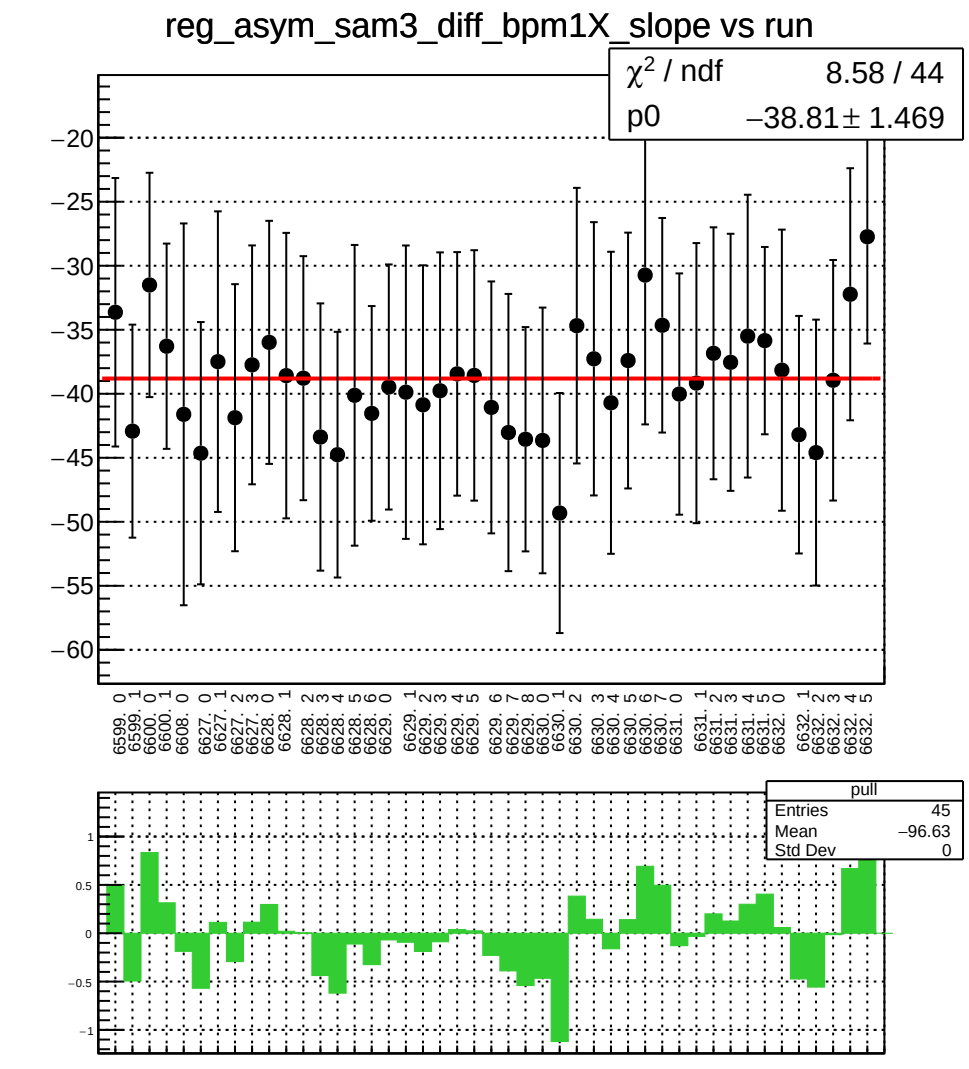

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 3.6 / 44
p0 −164 ± 3.34
pull
Entries 45
Mean −942.3
Std Dev 0
pull1D
Entries 45
Mean −0.001522
Std Dev 0.2828

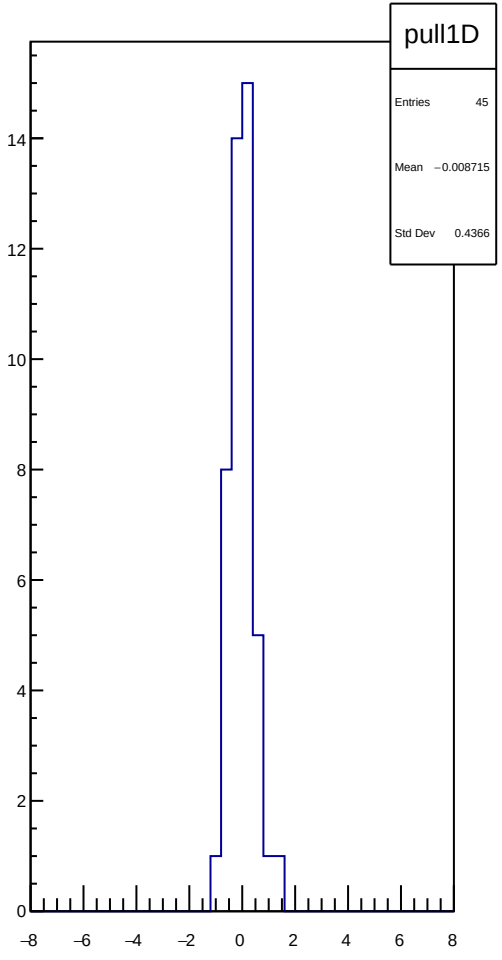

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 11.37 / 44
p0 −156.2 ± 2.54
−120
−140
−160
−180
−200
−220
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −161.2
Std Dev 0
0.5
0
−0.5
−1
−1.5

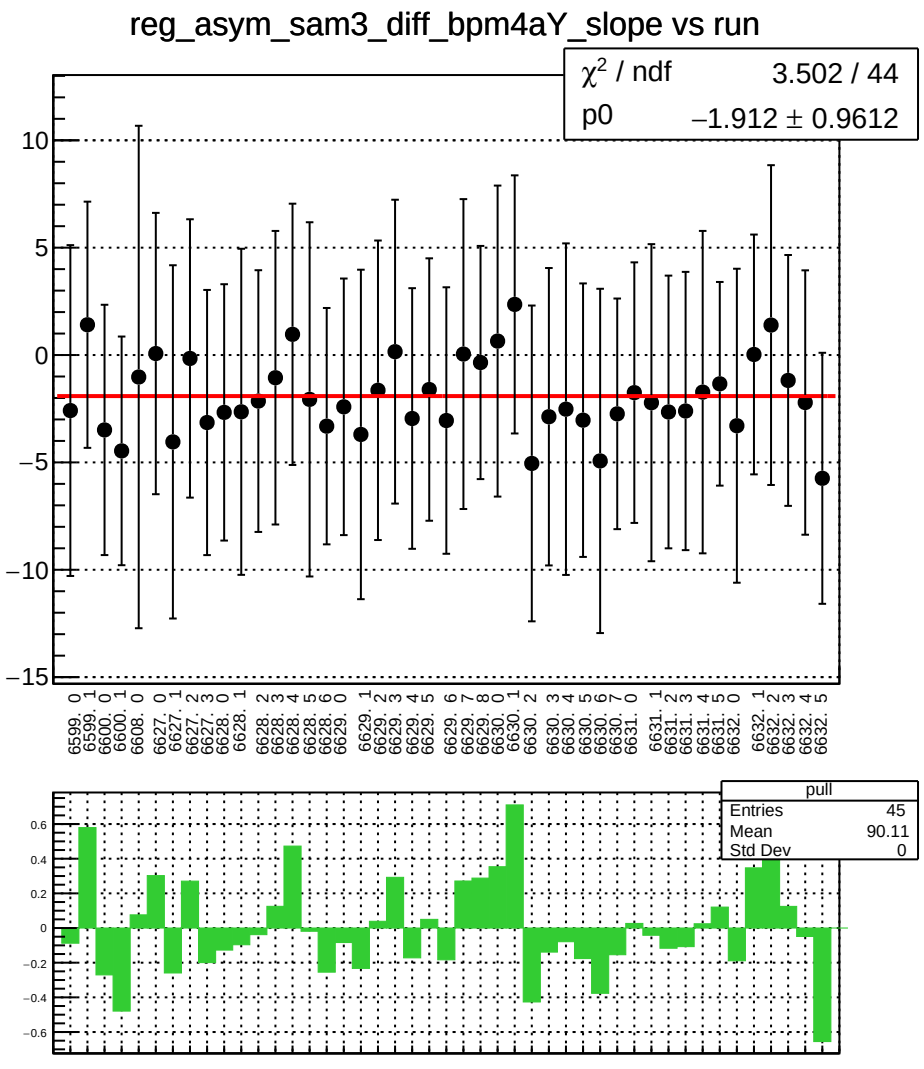

pull1D
Entries 45
Mean −0.01021
Std Dev 0.5027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

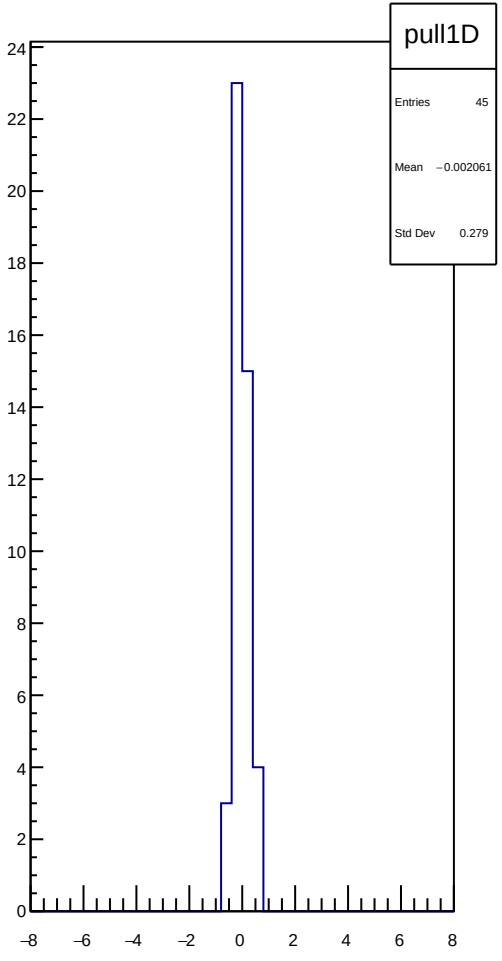

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 4.187 / 44
p0 1.416 ± 0.1368
pull
Entries 45
Mean −79.35
Std Dev 0

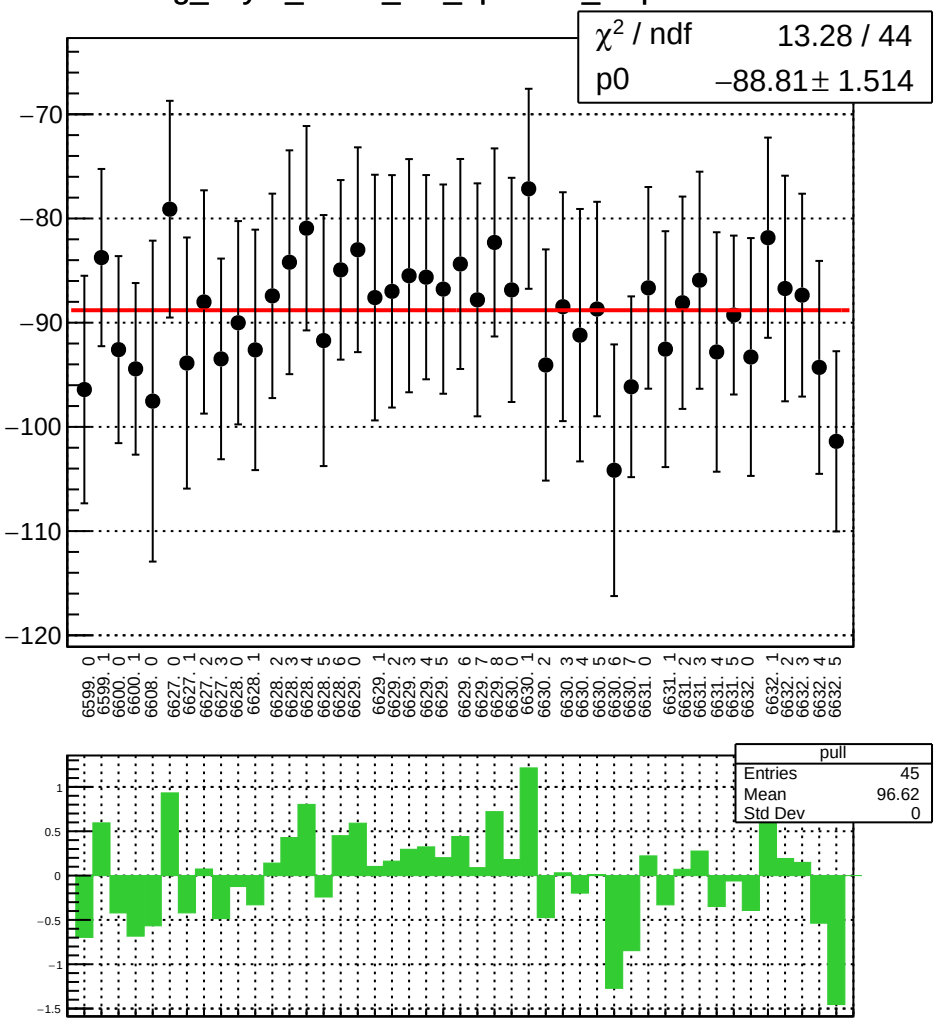

pull1D
Entries 45
Mean 0.007293
Std Dev 0.3049

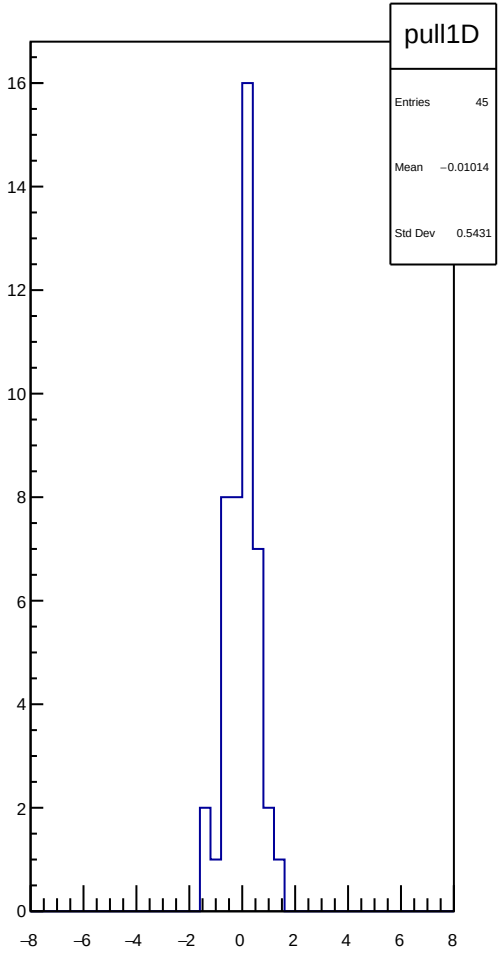

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 8.58 / 44
p0 −38.81 ± 1.469
pull
Entries 45
Mean −96.63
Std Dev 0

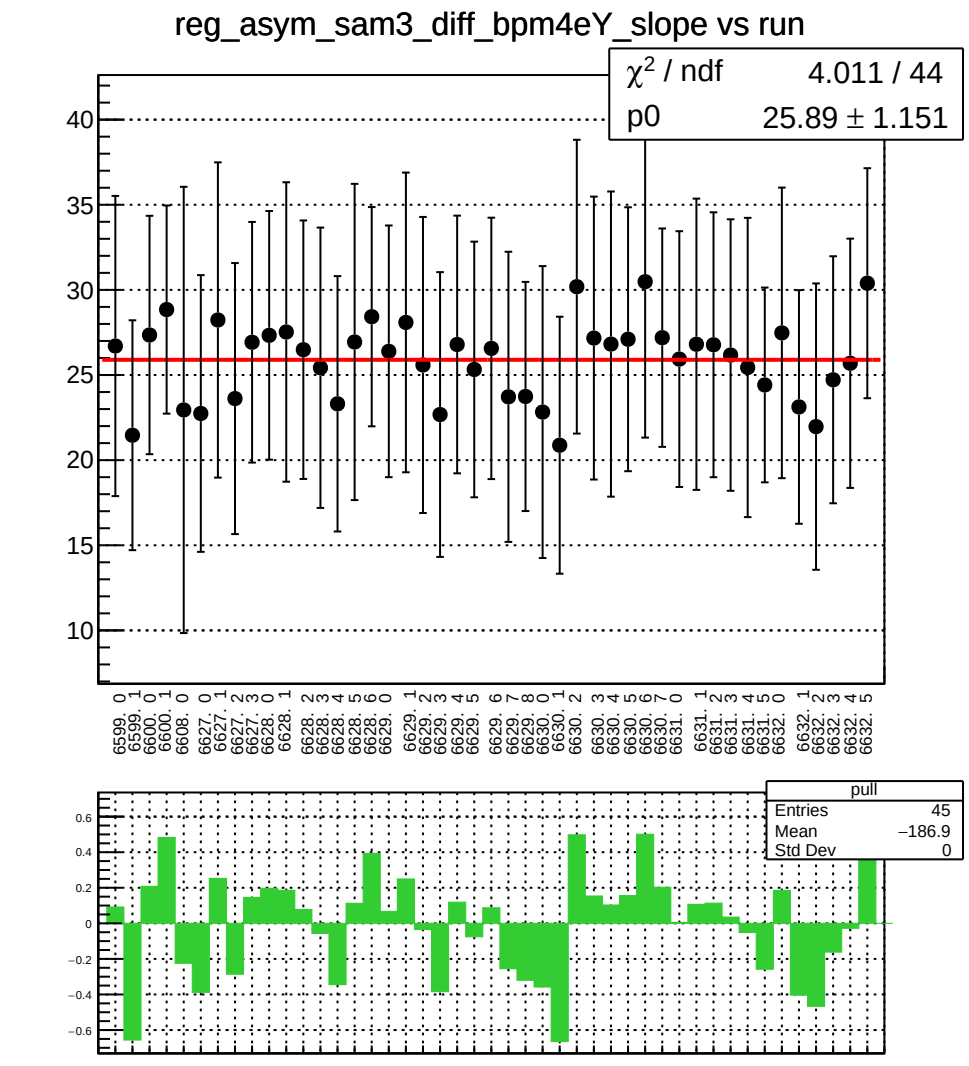

pull1D
Entries 45
Mean −0.008715
Std Dev 0.4366

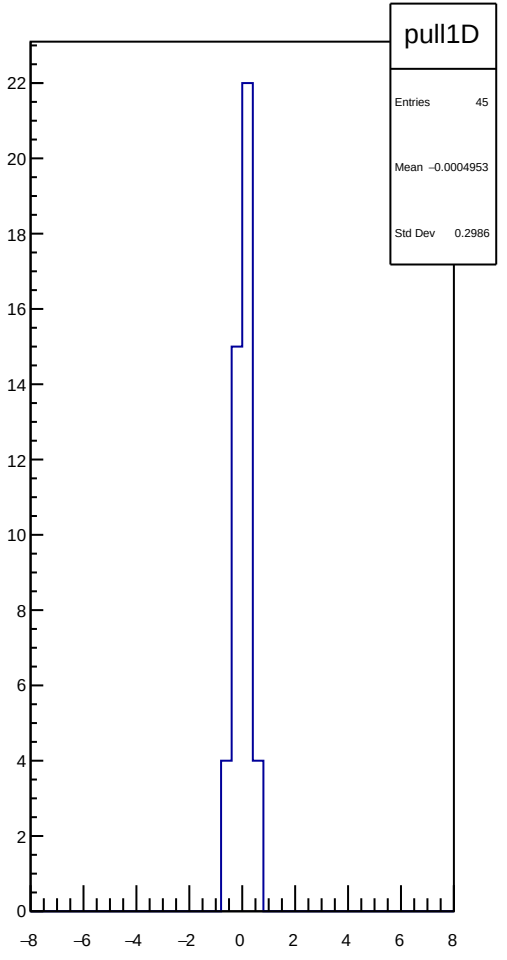

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 3.502 / 44
p0 −1.912 ± 0.9612
pull
Entries 45
Mean 90.11
Std Dev 0

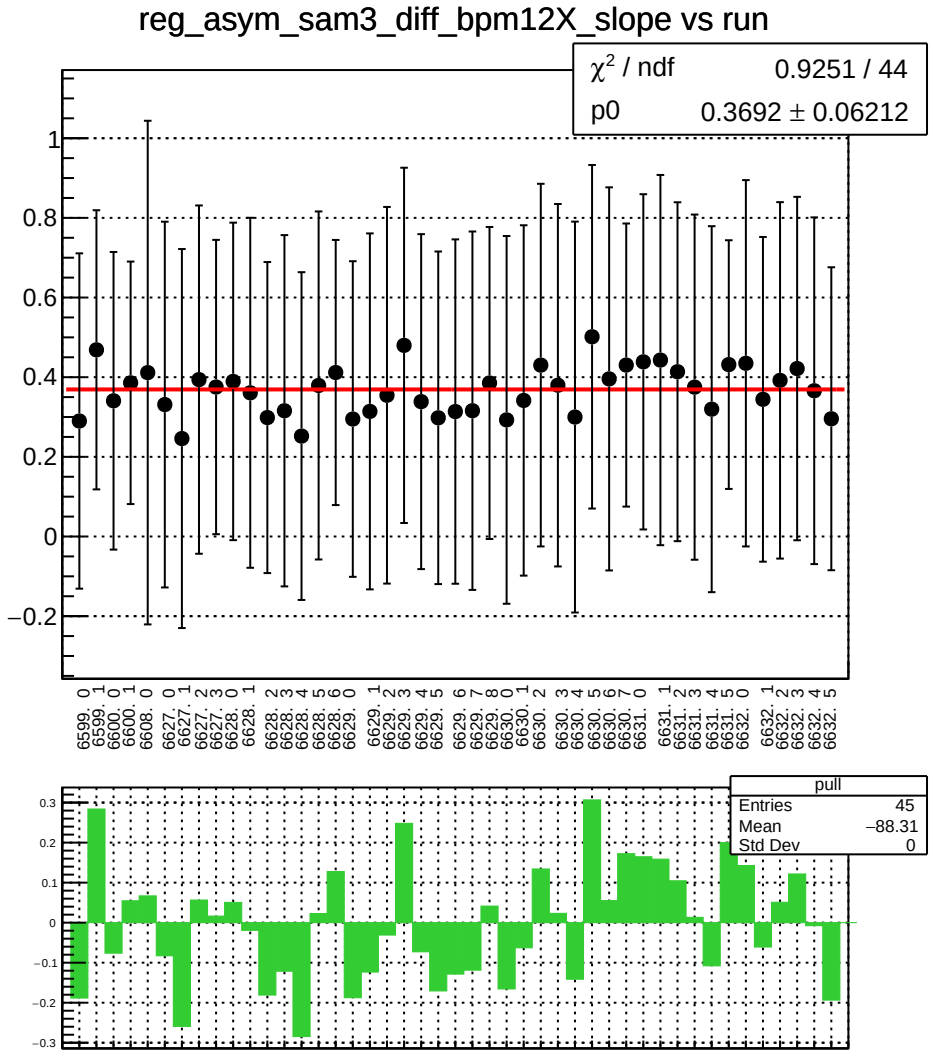

pull1D
Entries 45
Mean −0.002061
Std Dev 0.279

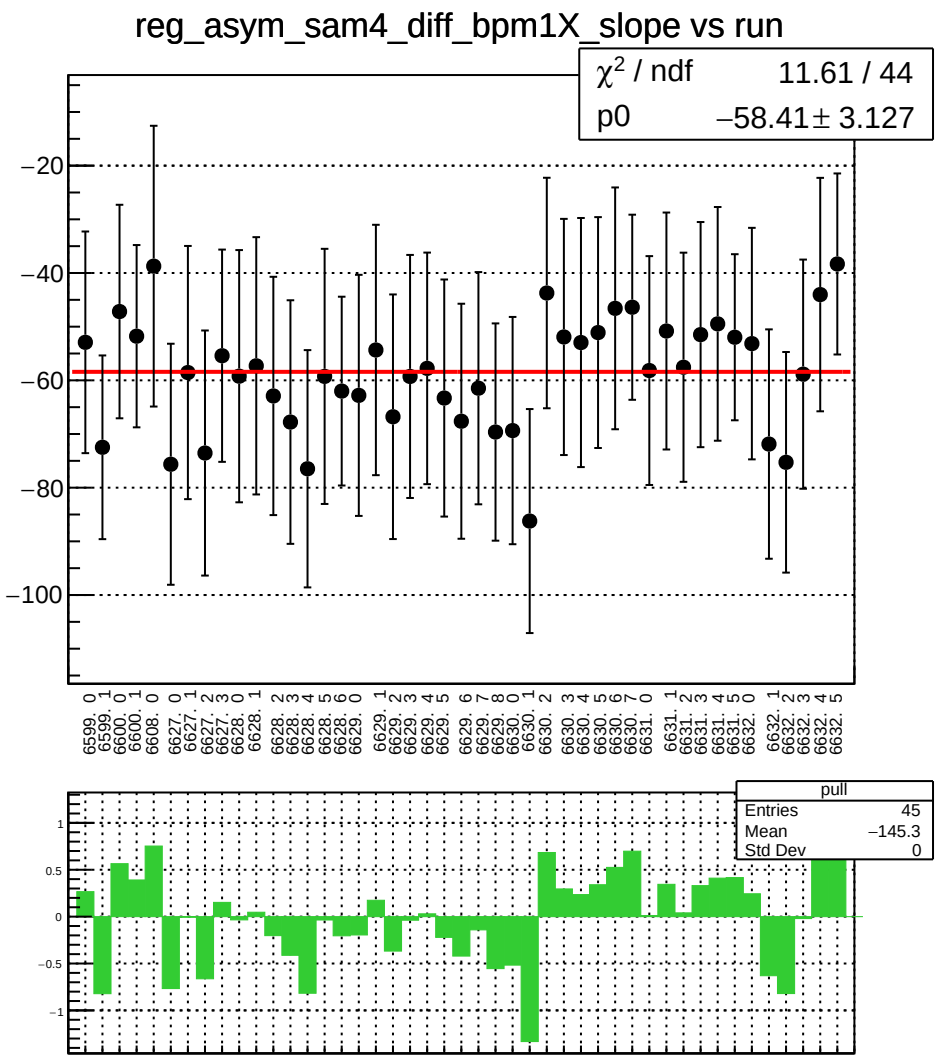

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 13.28 / 44
p0 −88.81 ± 1.514
pull
Entries 45
Mean 96.62
Std Dev 0

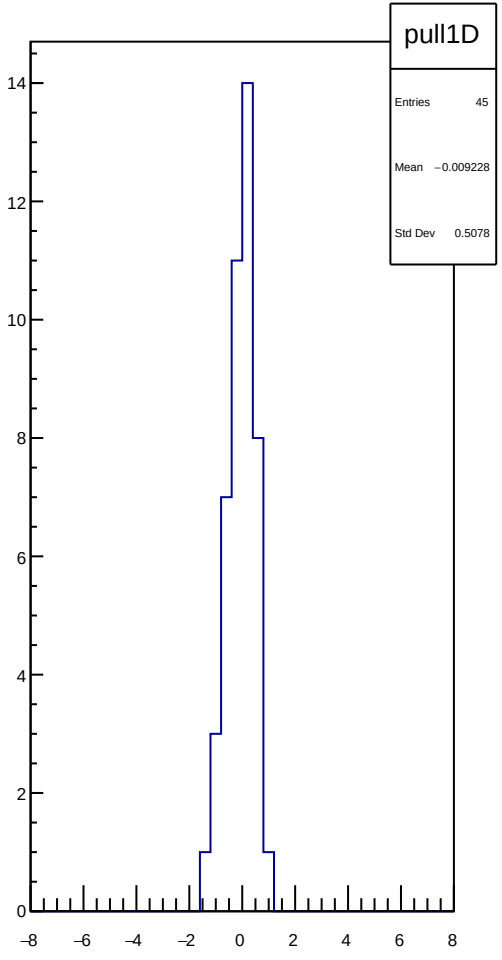

pull1D
Entries 45
Mean −0.01014
Std Dev 0.5431

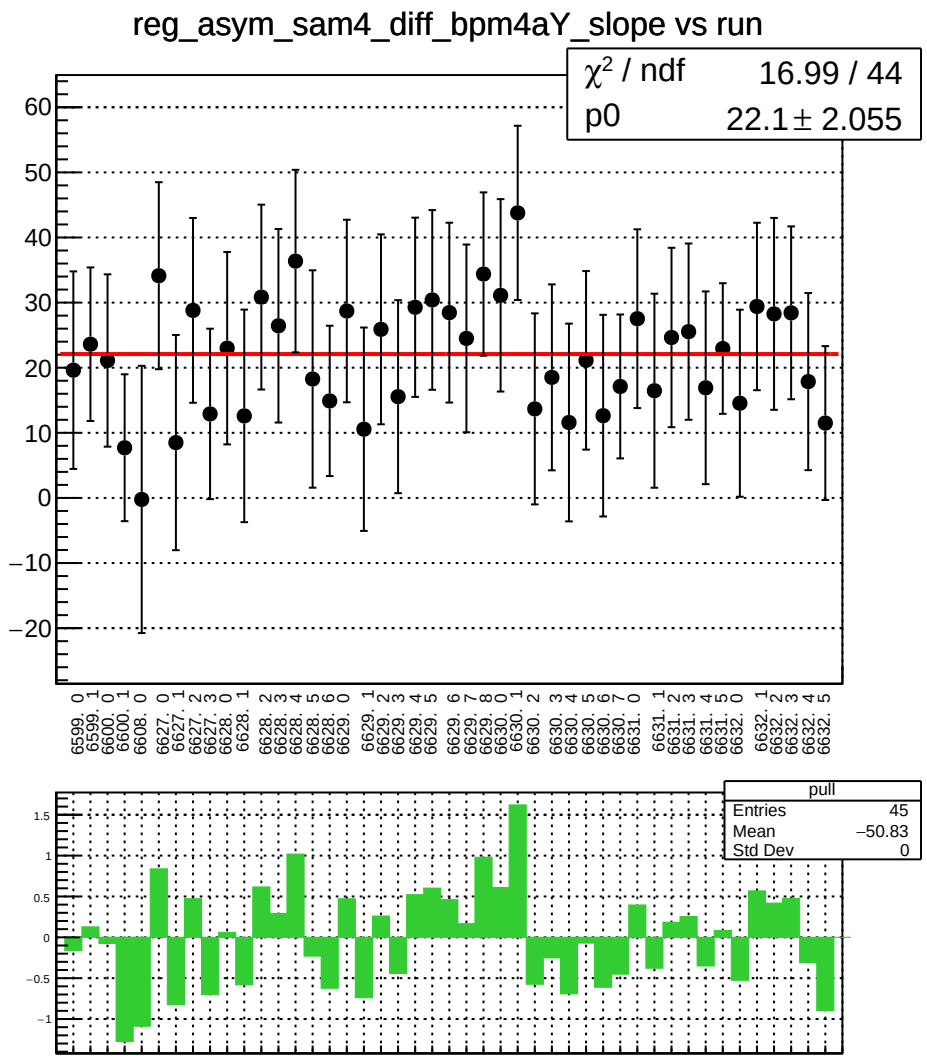

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 4.011 / 44
p0 25.89 ± 1.151
40
35
30
25
20
15
10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −186.9
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

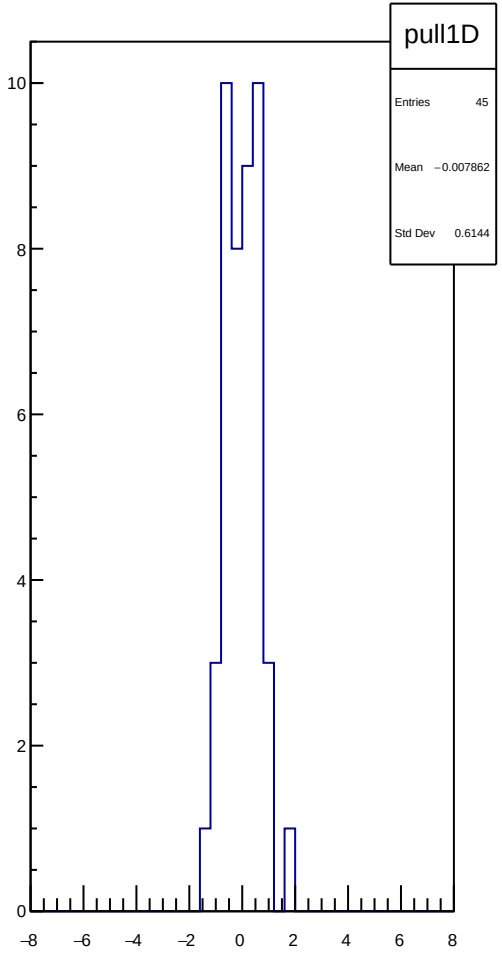

pull1D
Entries 45
Mean −0.0004953
Std Dev 0.2986
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

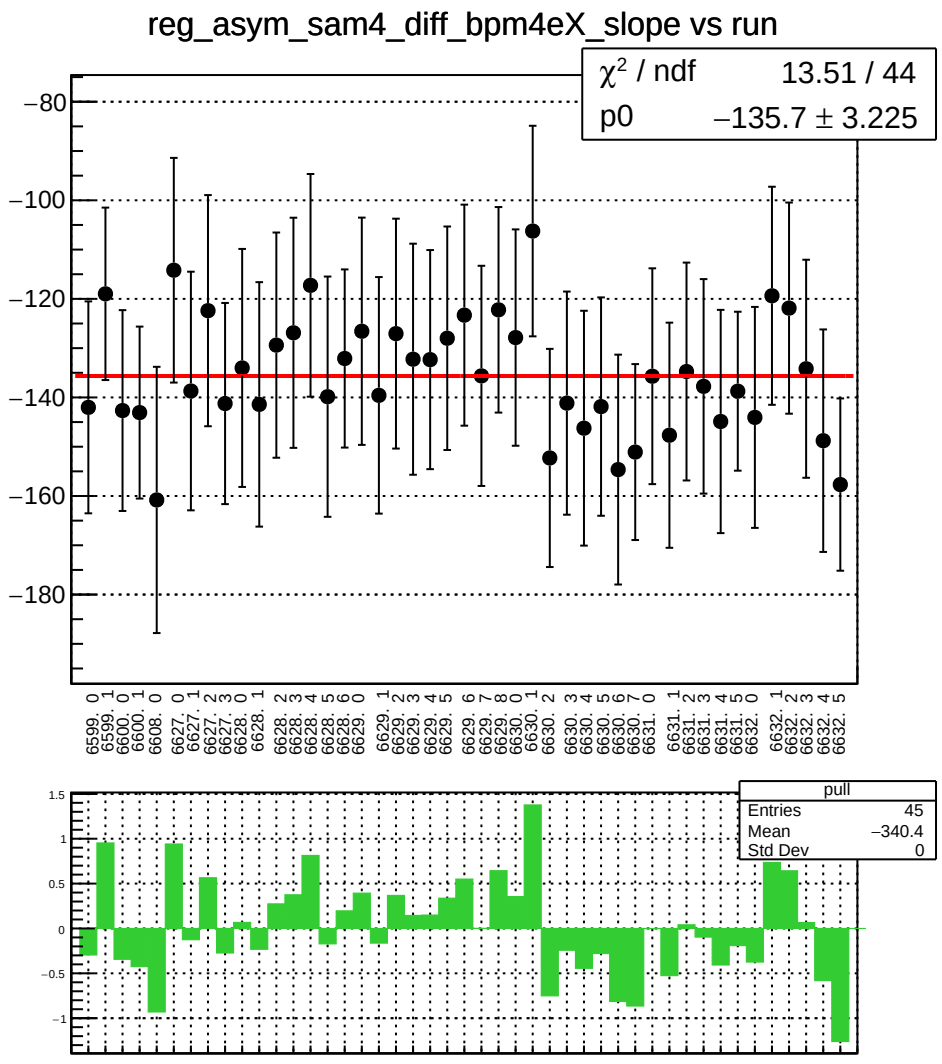

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 0.9251 / 44
p0 0.3692 ± 0.06212
pull
Entries 45
Mean −88.31
Std Dev 0
pull1D
Entries 45
Mean −0.003711
Std Dev 0.1433

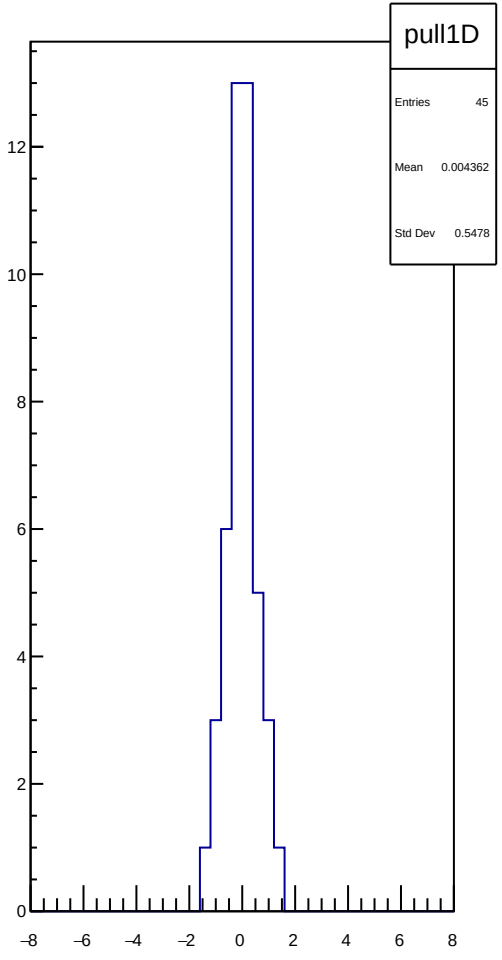

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 11.61 / 44
p0 −58.41 ± 3.127
−20
−40
−60
−80
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −145.3
Std Dev 0
1
0.5
0
−0.5
−1

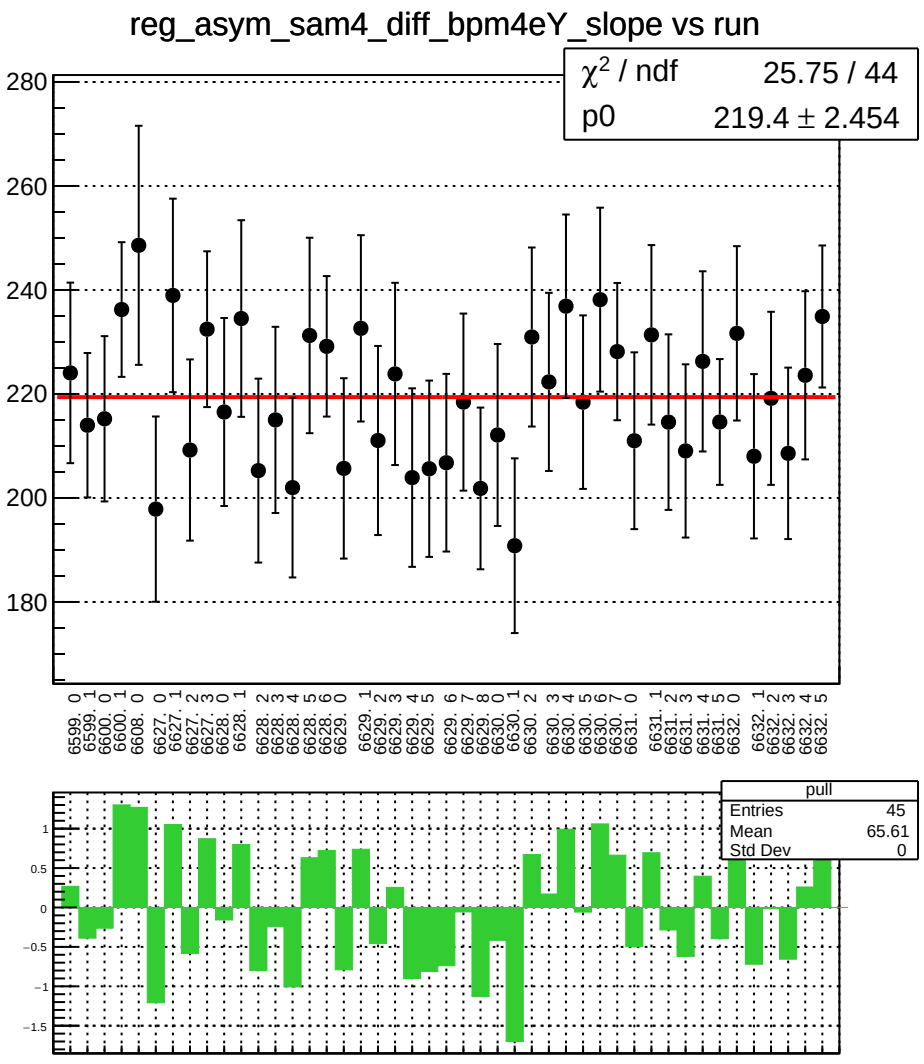

pull1D
Entries 45
Mean −0.009228
Std Dev 0.5078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

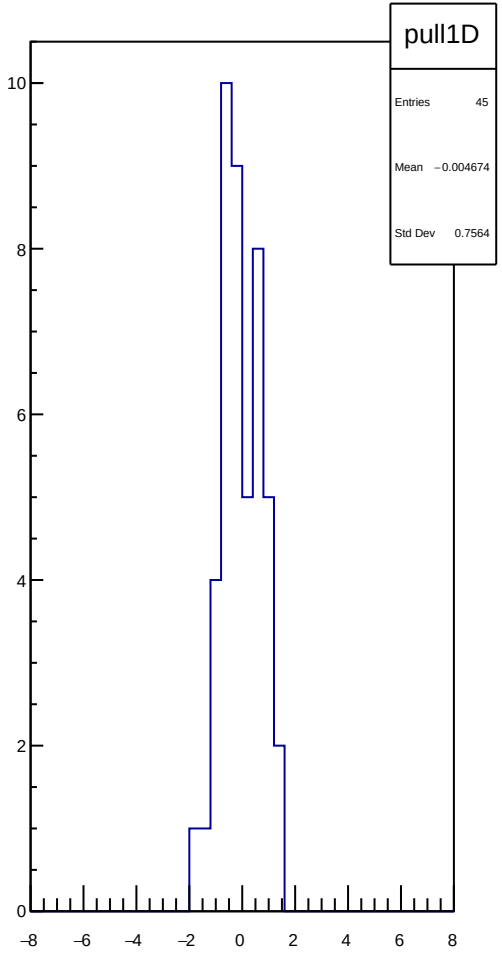

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 16.99 / 44
p0 22.1 ± 2.055
pull
Entries 45
Mean −50.83
Std Dev 0

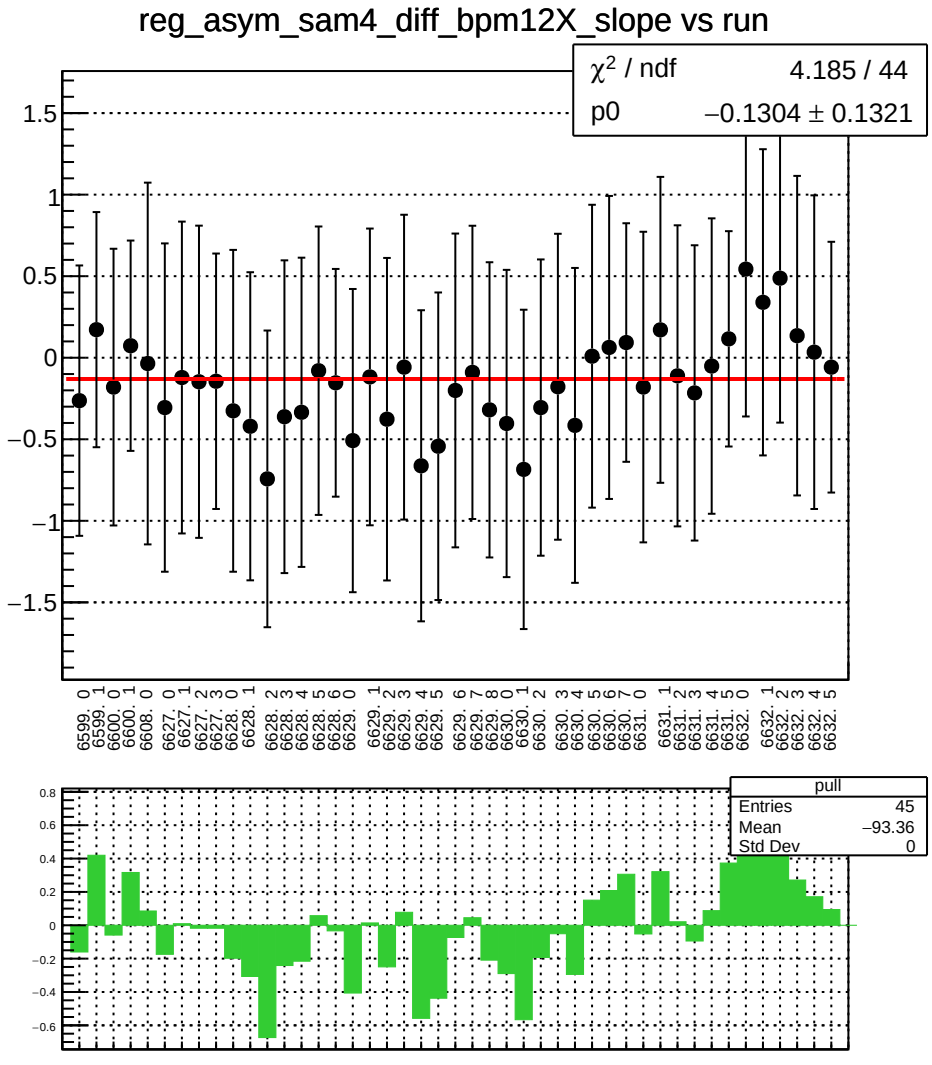

pull1D
Entries 45
Mean −0.007862
Std Dev 0.6144

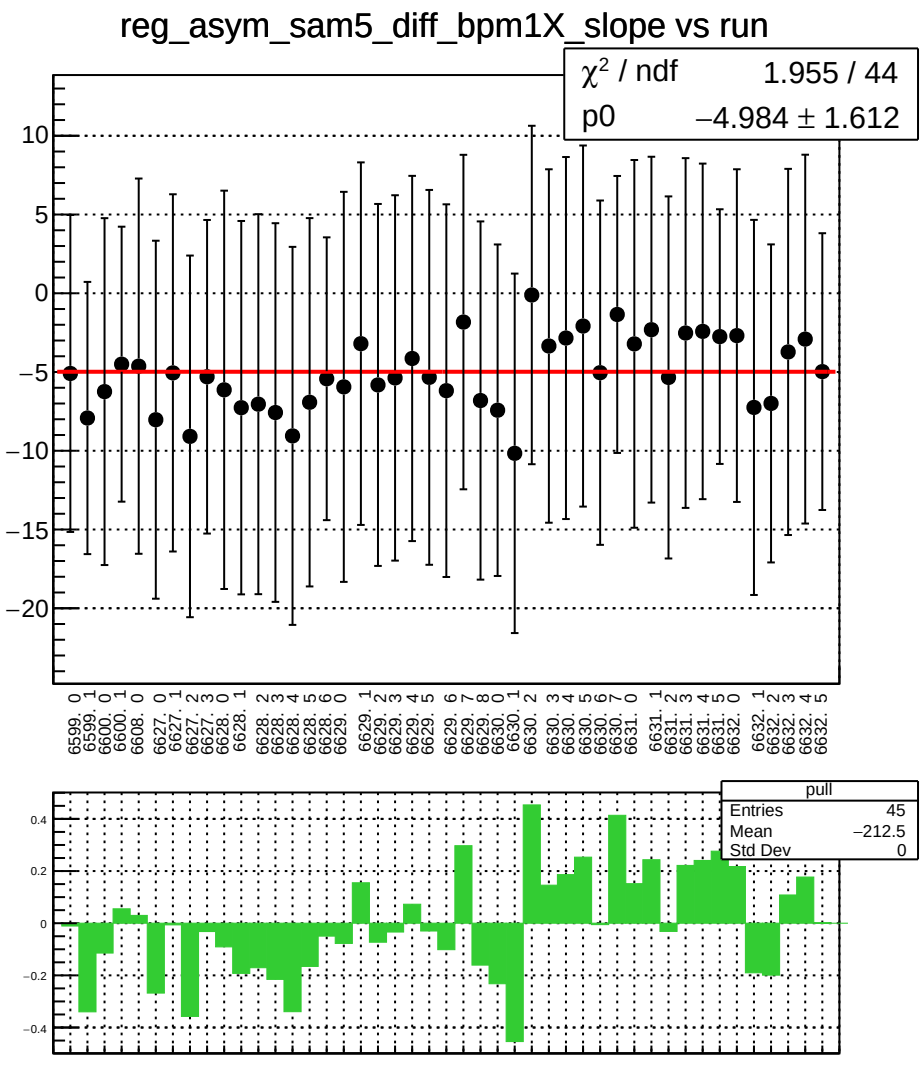

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 13.51 / 44
p0 −135.7 ± 3.225
−80
−100
−120
−140
−160
−180
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −340.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1

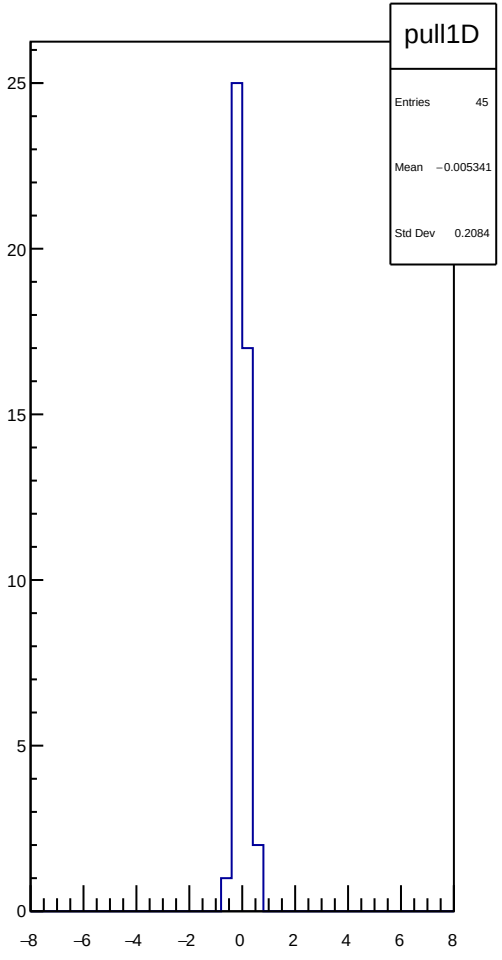

pull1D
Entries 45
Mean 0.004362
Std Dev 0.5478
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

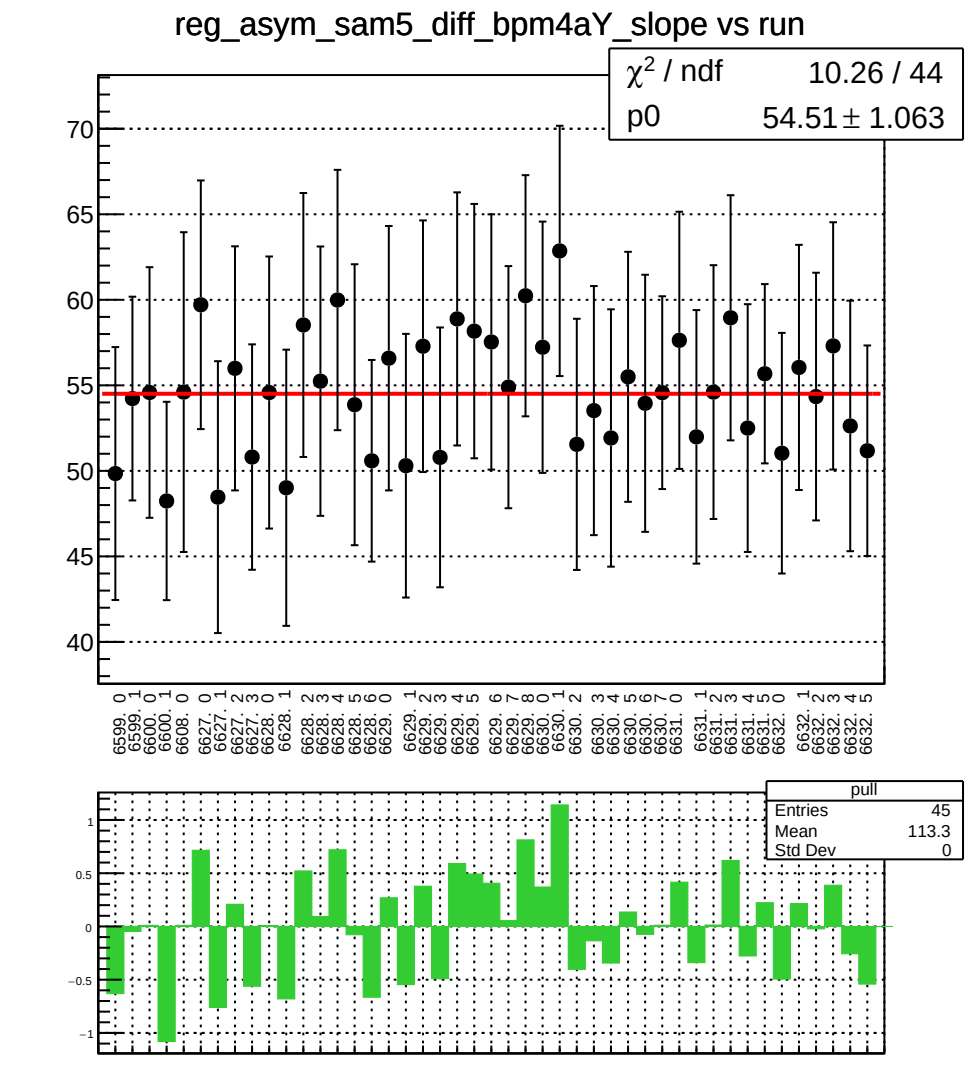

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 25.75 / 44
p0 219.4 ± 2.454
280
260
240
220
200
180
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 65.61
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

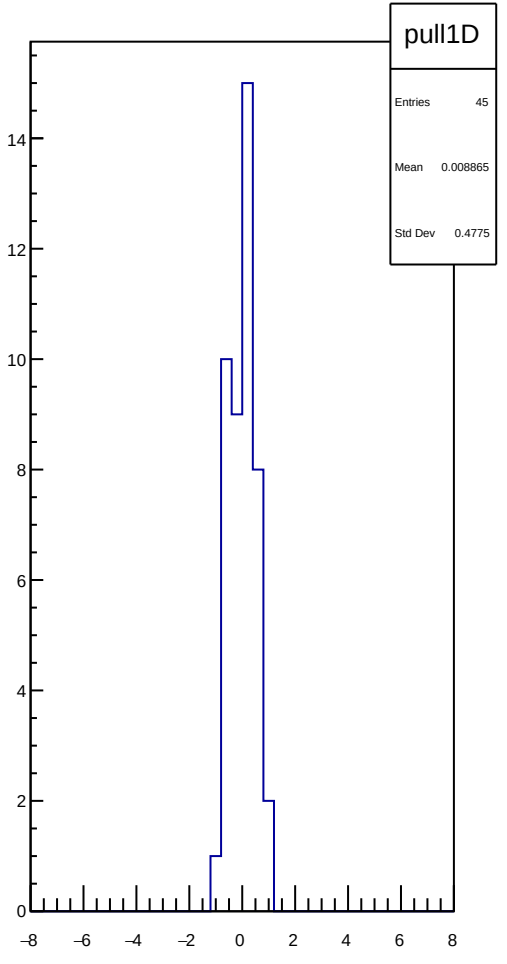

pull1D
Entries 45
Mean −0.004674
Std Dev 0.7564
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

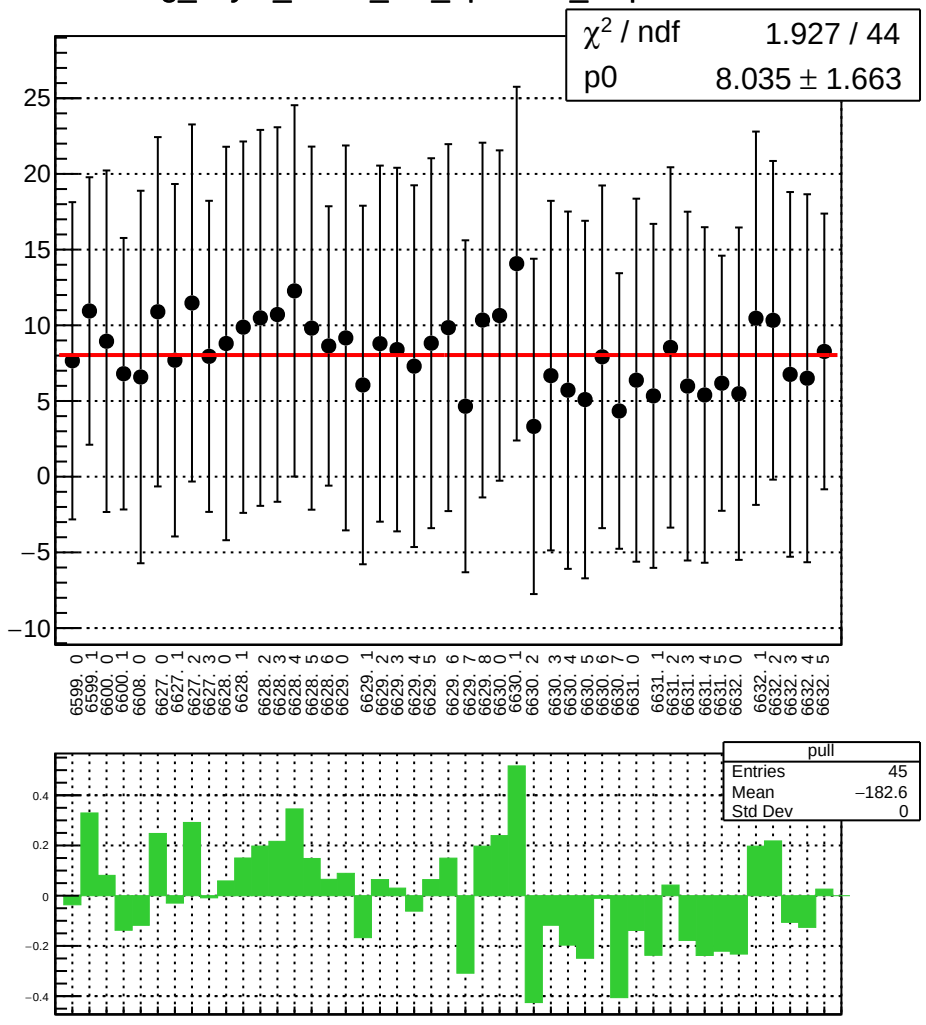

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 4.185 / 44
p0 −0.1304 ± 0.1321
pull
Entries 45
Mean −93.36
Std Dev 0
pull1D
Entries 45
Mean −0.01323
Std Dev 0.3047

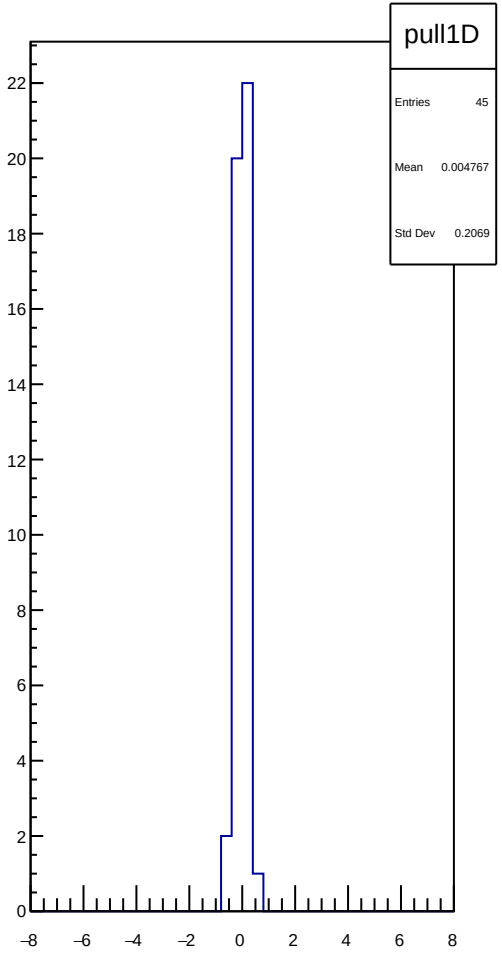

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 1.955 / 44
p0 −4.984 ± 1.612
10
5
0
−5
−10
−15
−20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −212.5
Std Dev 0
0.4
0.2
0
−0.2
−0.4

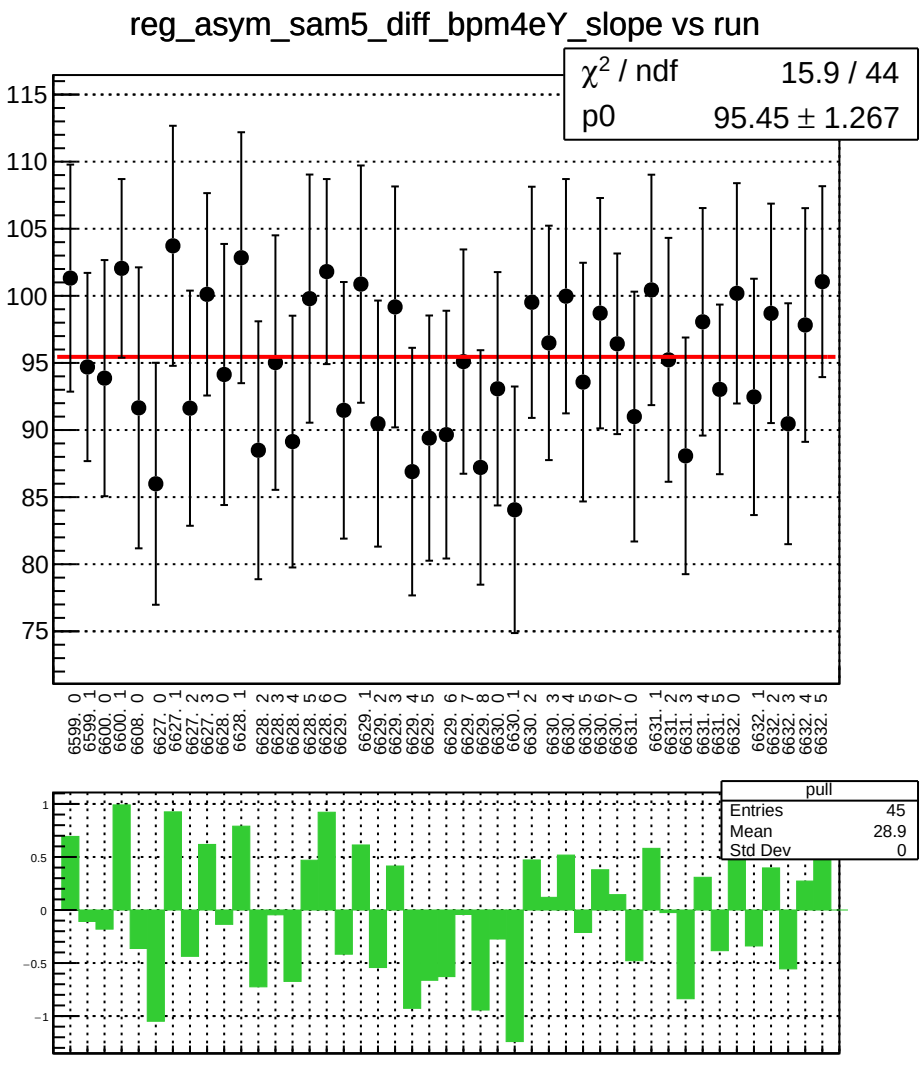

pull1D
Entries 45
Mean −0.005341
Std Dev 0.2084
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

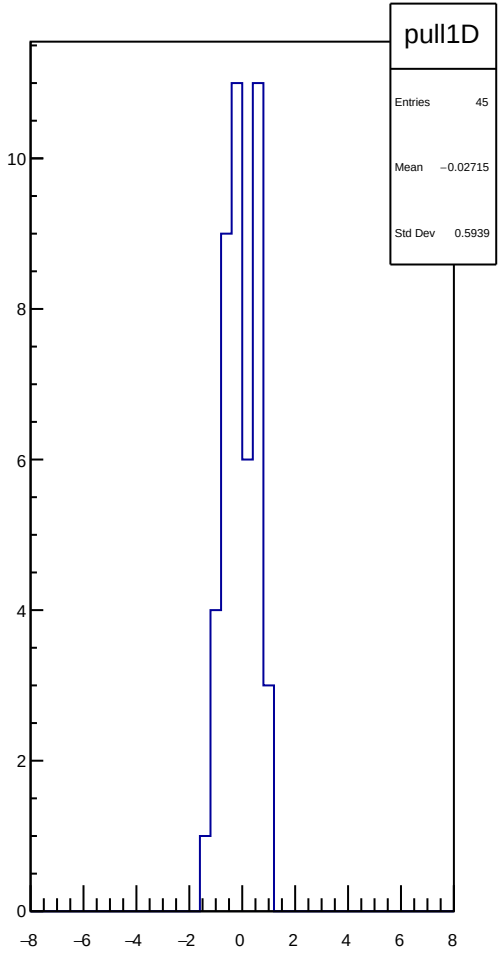

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 10.26 / 44
p0 54.51 ± 1.063
70
65
60
55
50
45
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 113.3
Std Dev 0
1
0.5
0
−0.5
−1

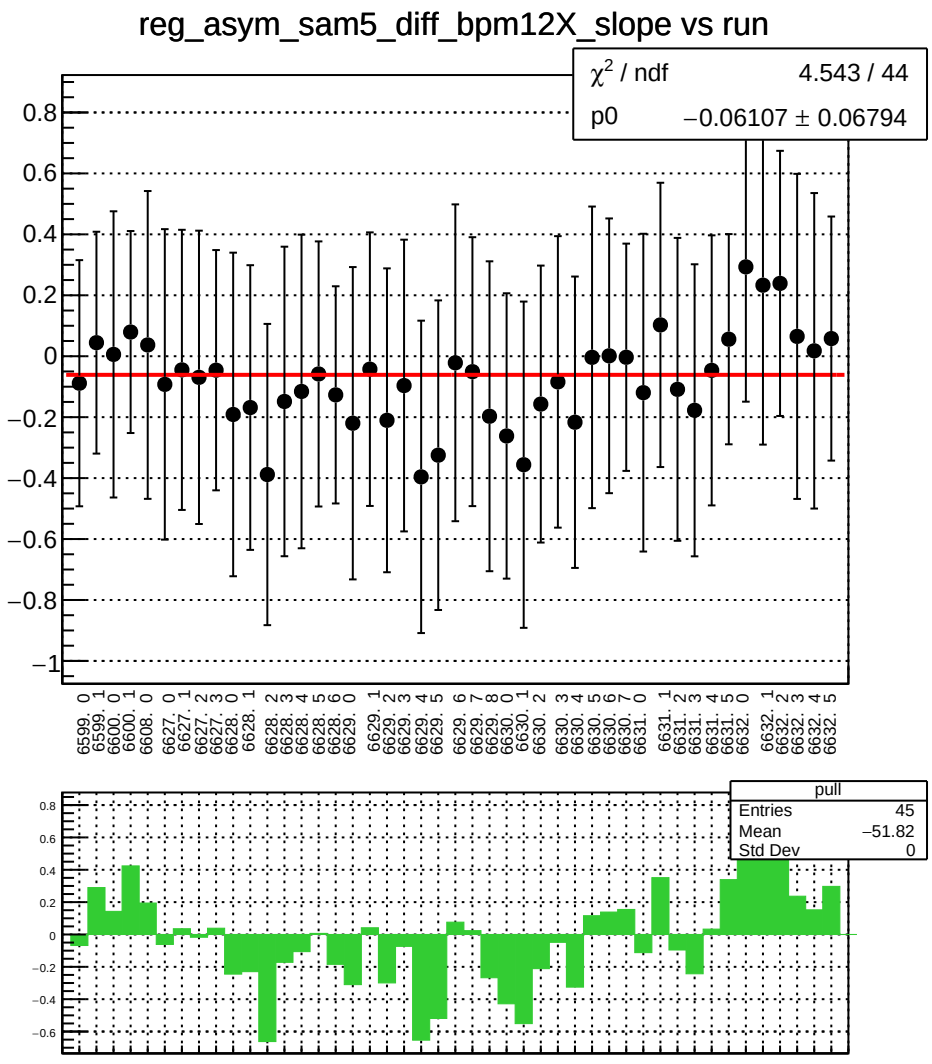

pull1D
Entries 45
Mean 0.008865
Std Dev 0.4775
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

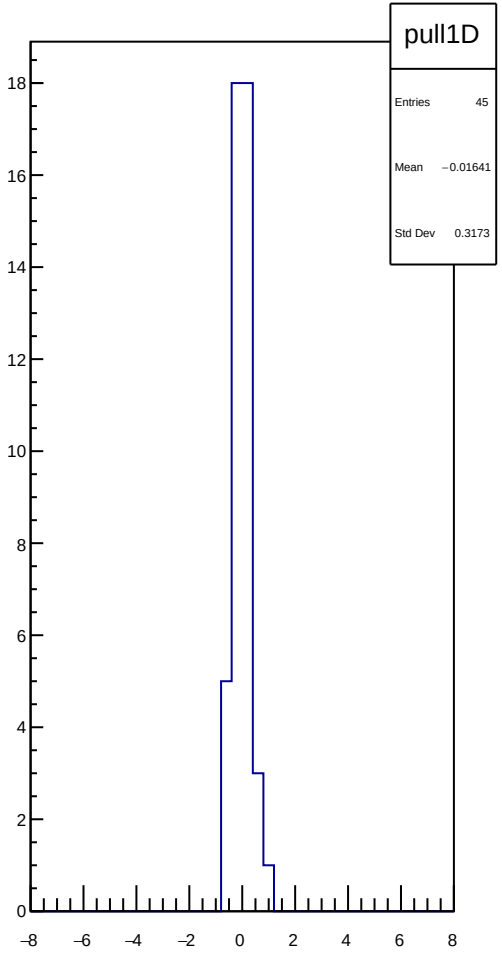

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 1.927 / 44
p0 8.035 ± 1.663
pull
Entries 45
Mean −182.6
Std Dev 0

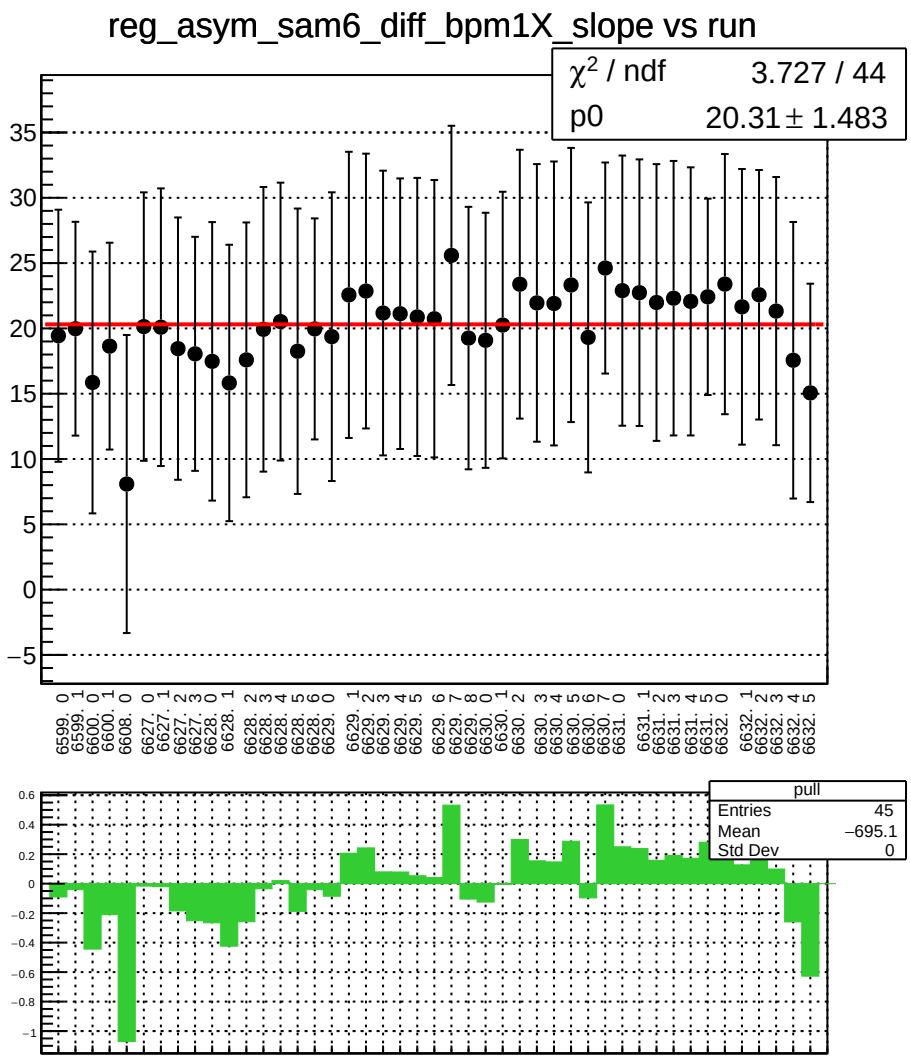

pull1D
Entries 45
Mean 0.004767
Std Dev 0.2069

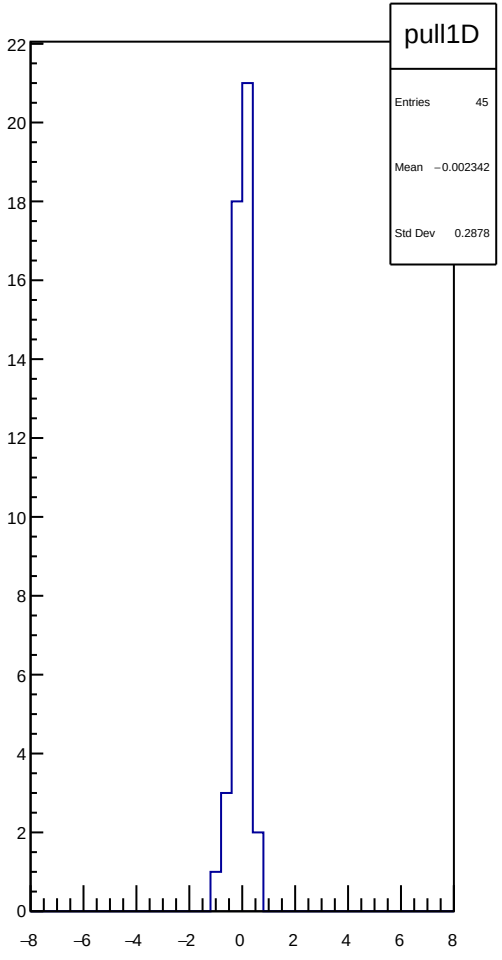

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 15.9 / 44
p0 95.45 ± 1.267
pull
Entries 45
Mean 28.9
Std Dev 0

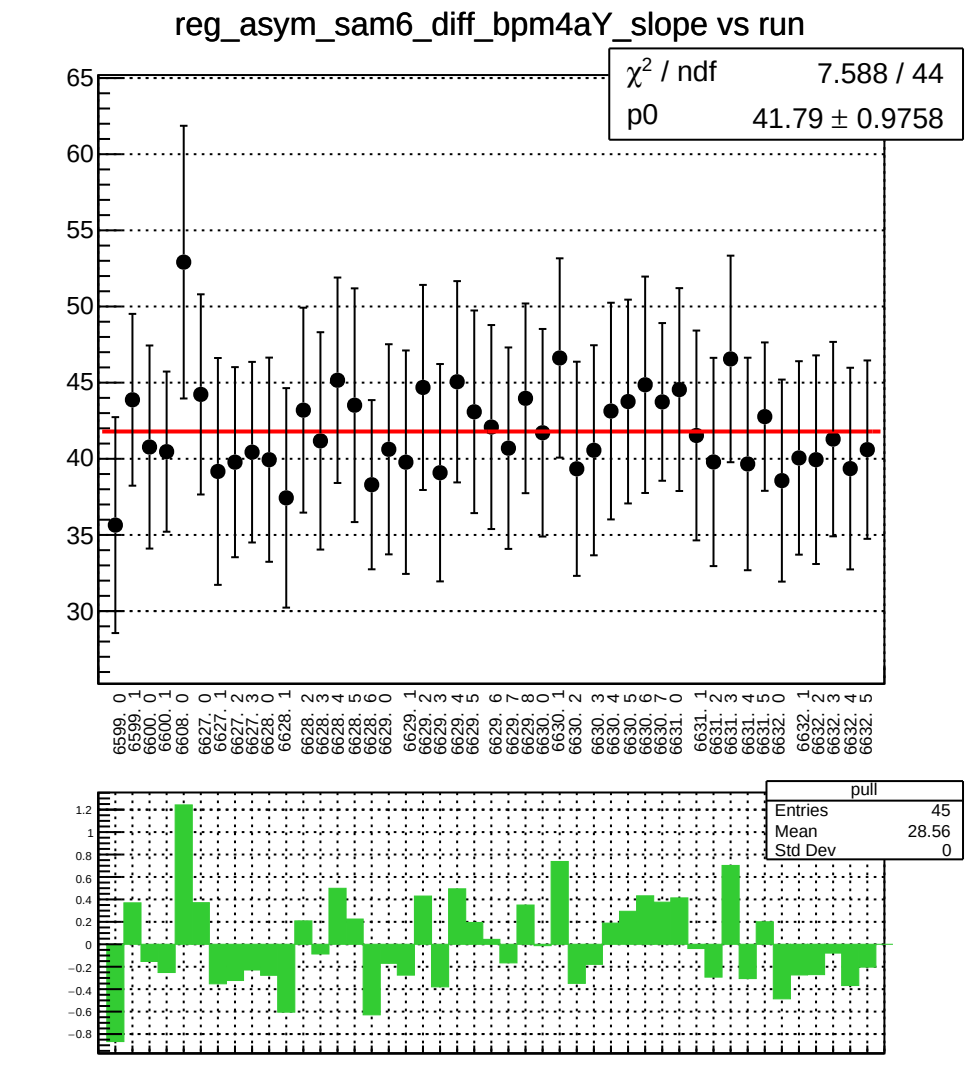

pull1D
Entries 45
Mean −0.02715
Std Dev 0.5939

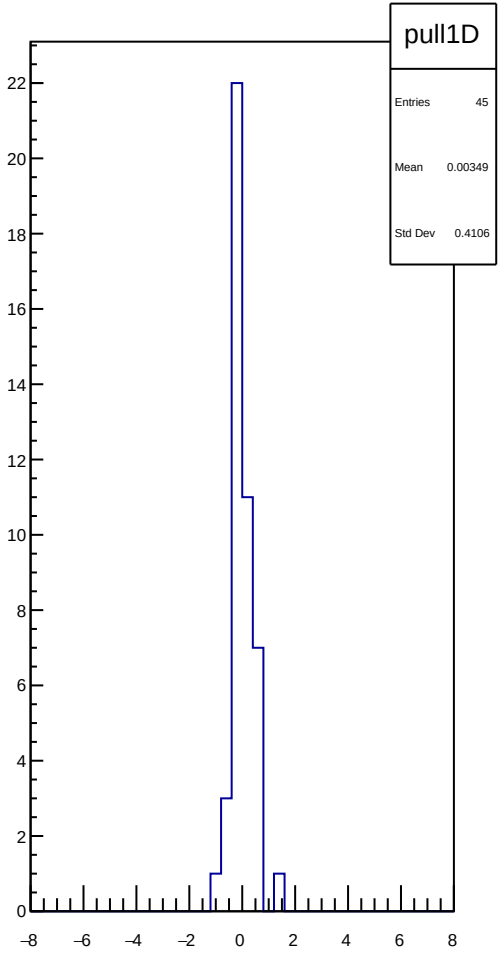

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 4.543 / 44
p0 −0.06107 ± 0.06794
pull
Entries 45
Mean −51.82
Std Dev 0

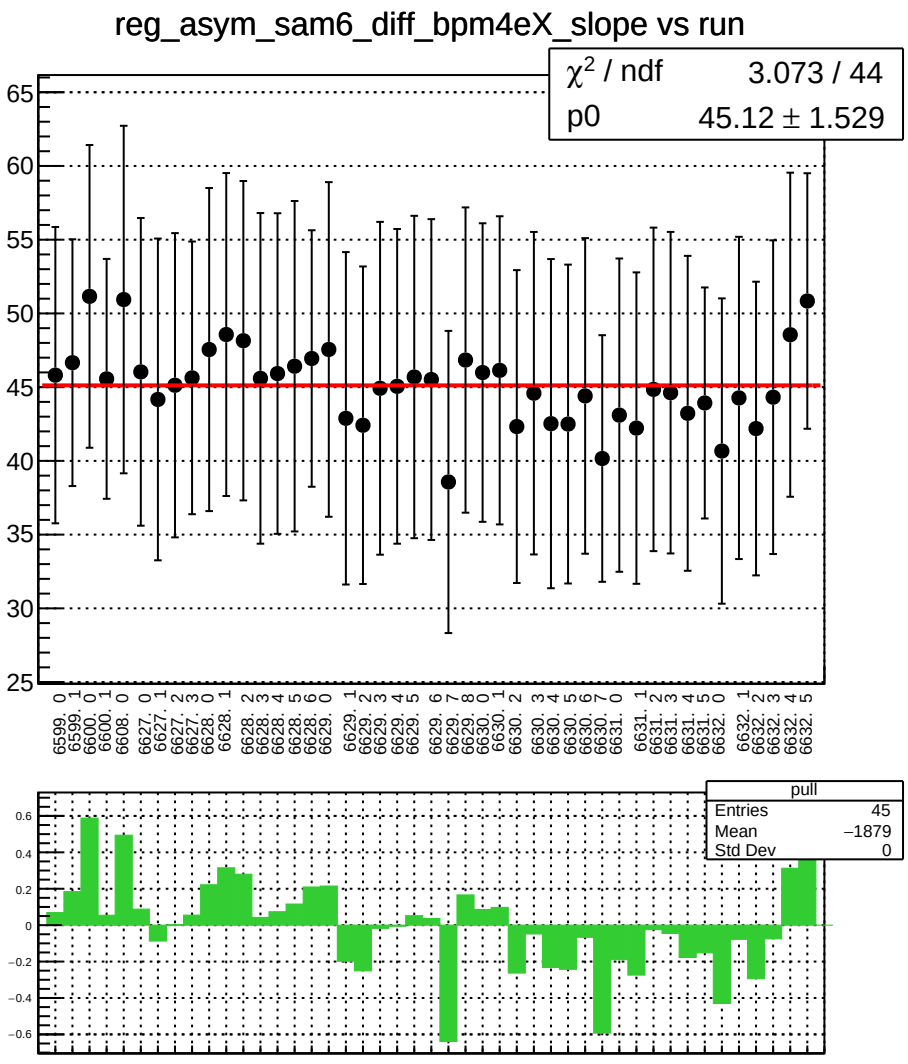

pull1D
Entries 45
Mean −0.01641
Std Dev 0.3173

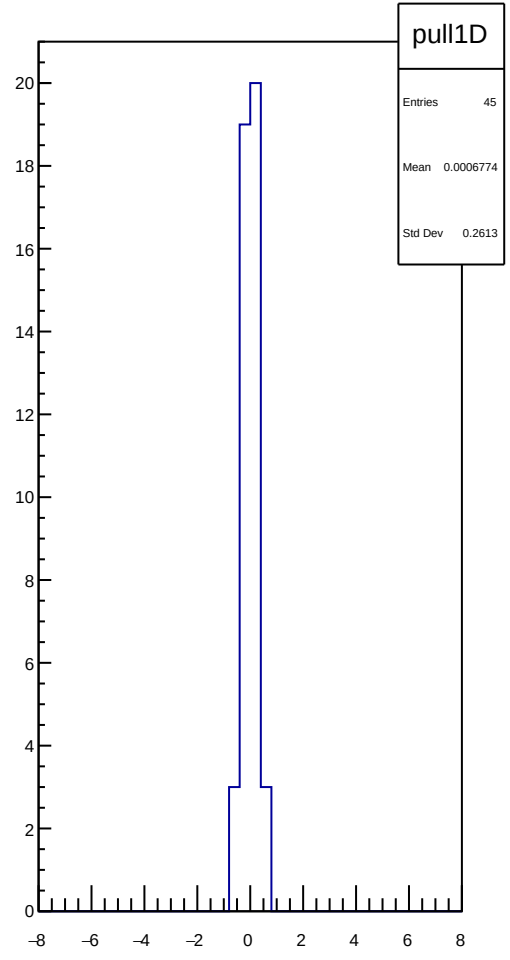

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 3.727 / 44
p0 20.31 ± 1.483
pull
Entries 45
Mean −695.1
Std Dev 0

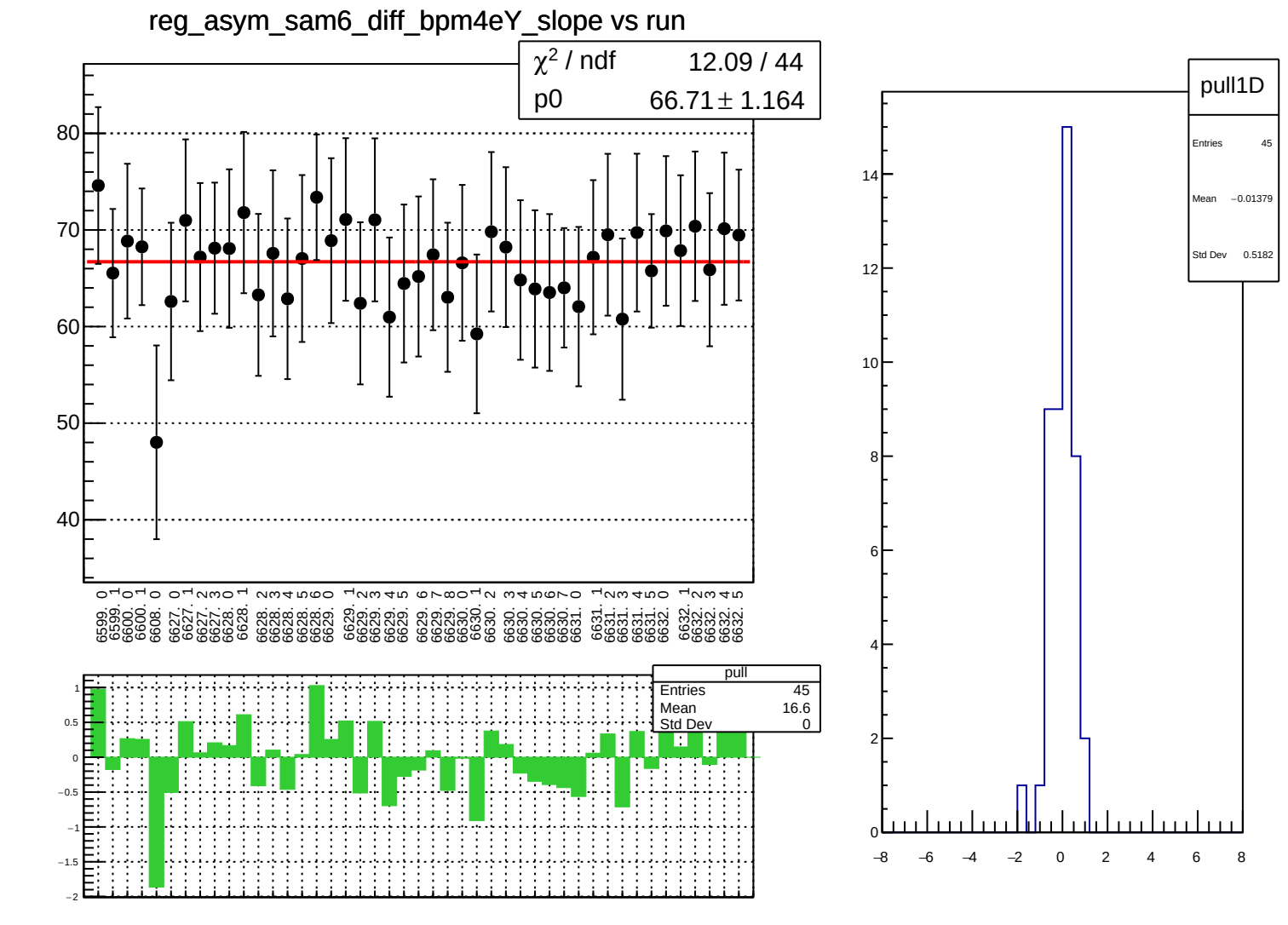

pull1D
Entries 45
Mean −0.002342
Std Dev 0.2878

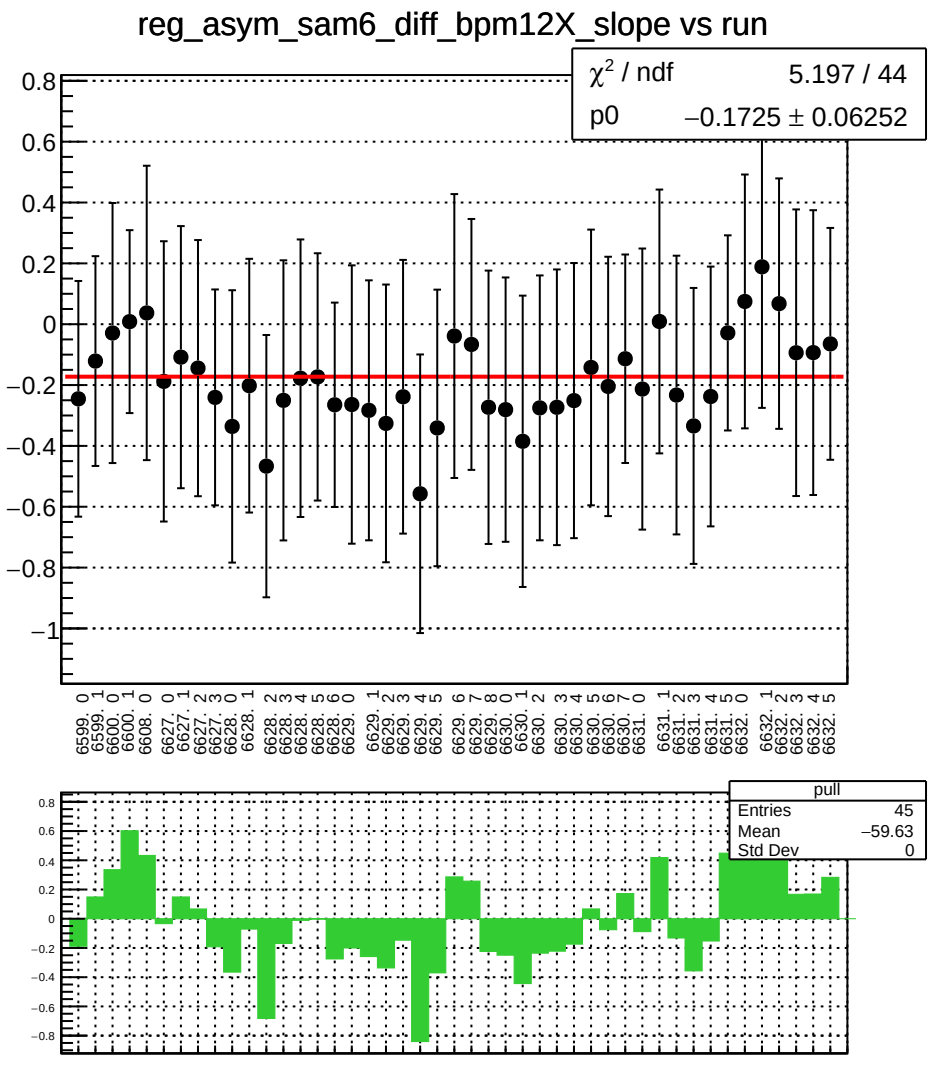

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 7.588 / 44
p0 41.79 ± 0.9758
pull
Entries 45
Mean 28.56
Std Dev 0

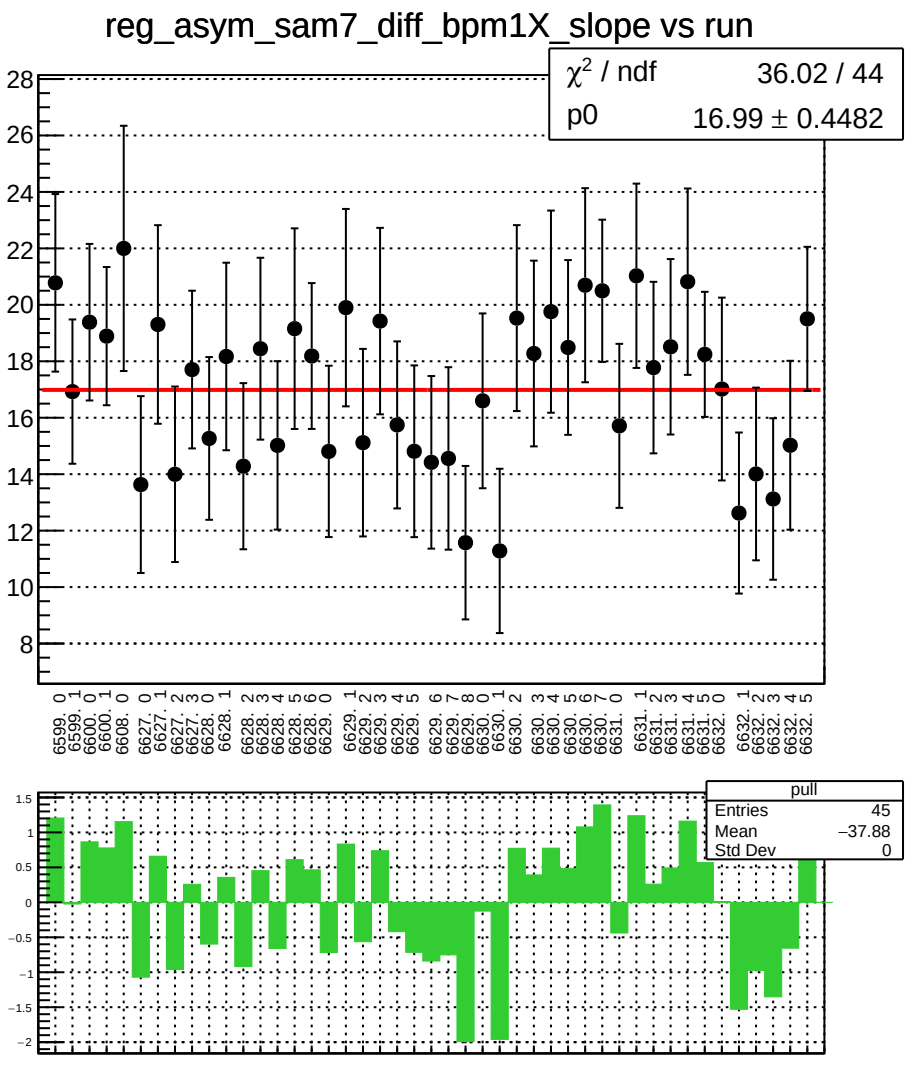

pull1D
Entries 45
Mean 0.00349
Std Dev 0.4106

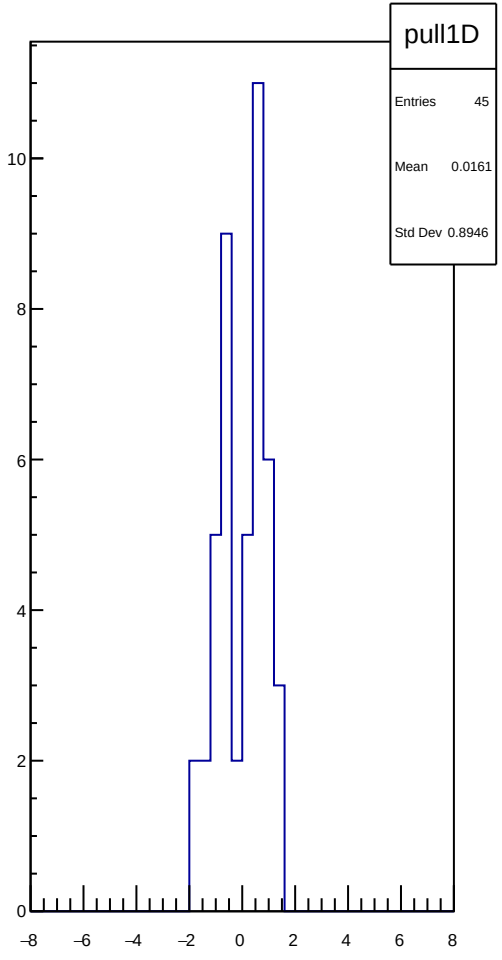

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 3.073 / 44
p0 45.12 ± 1.529
pull
Entries 45
Mean −1879
Std Dev 0

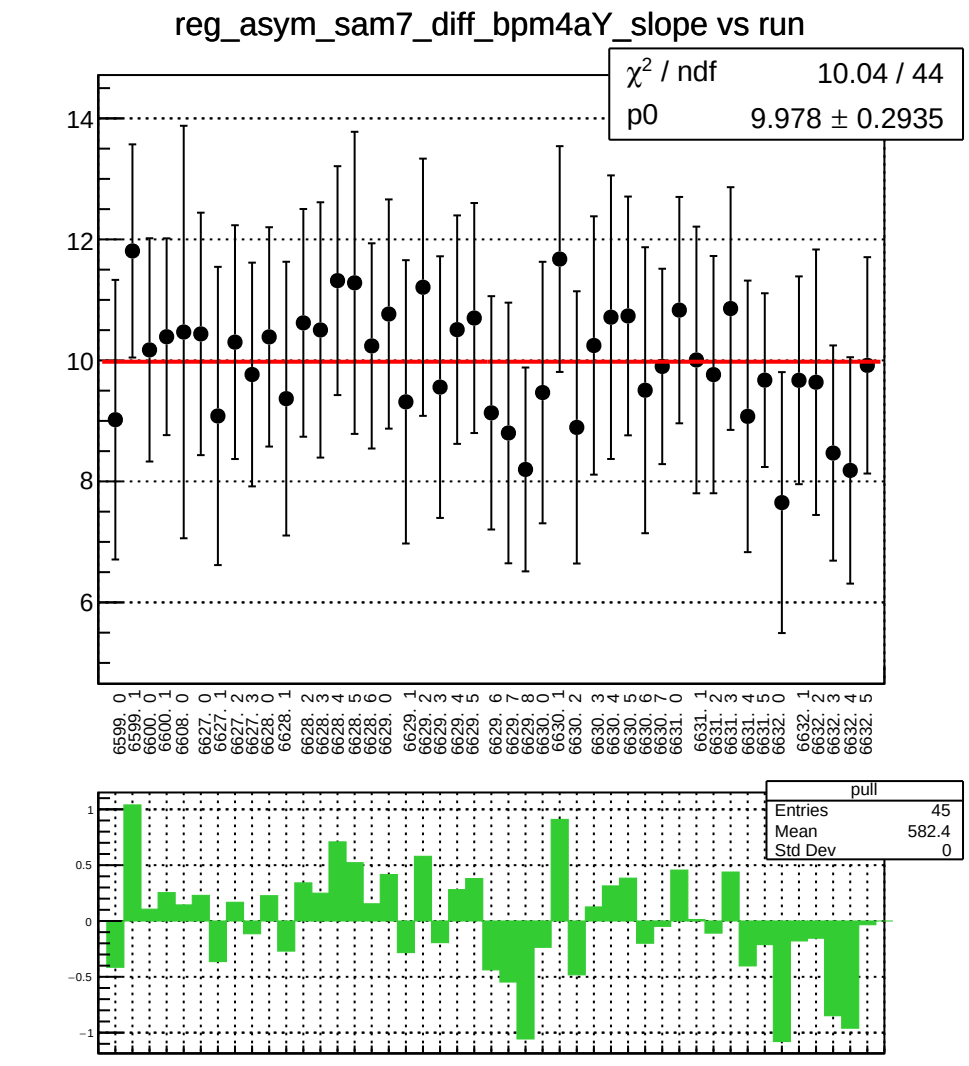

pull1D
Entries 45
Mean 0.0006774
Std Dev 0.2613

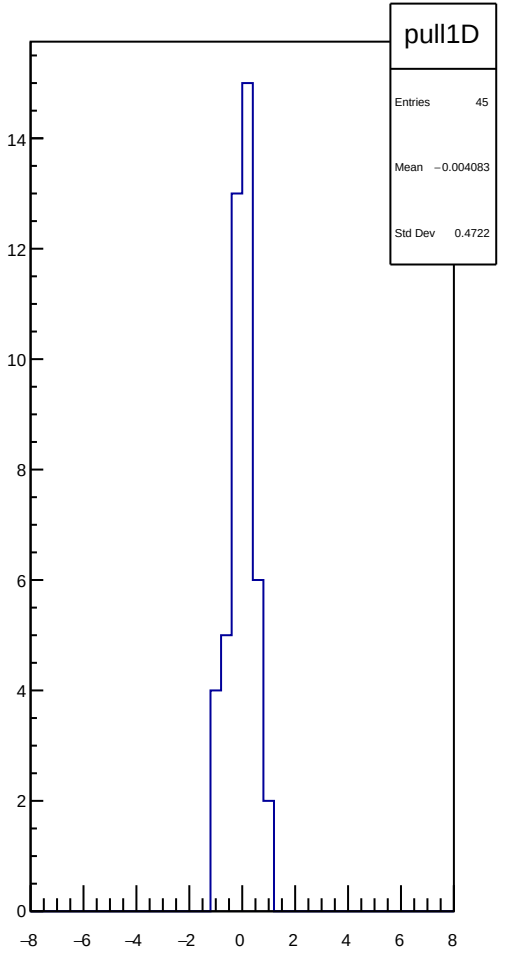

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 12.09 / 44
p0 66.71 ± 1.164
80
70
60
50
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 16.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01379
Std Dev 0.5182
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

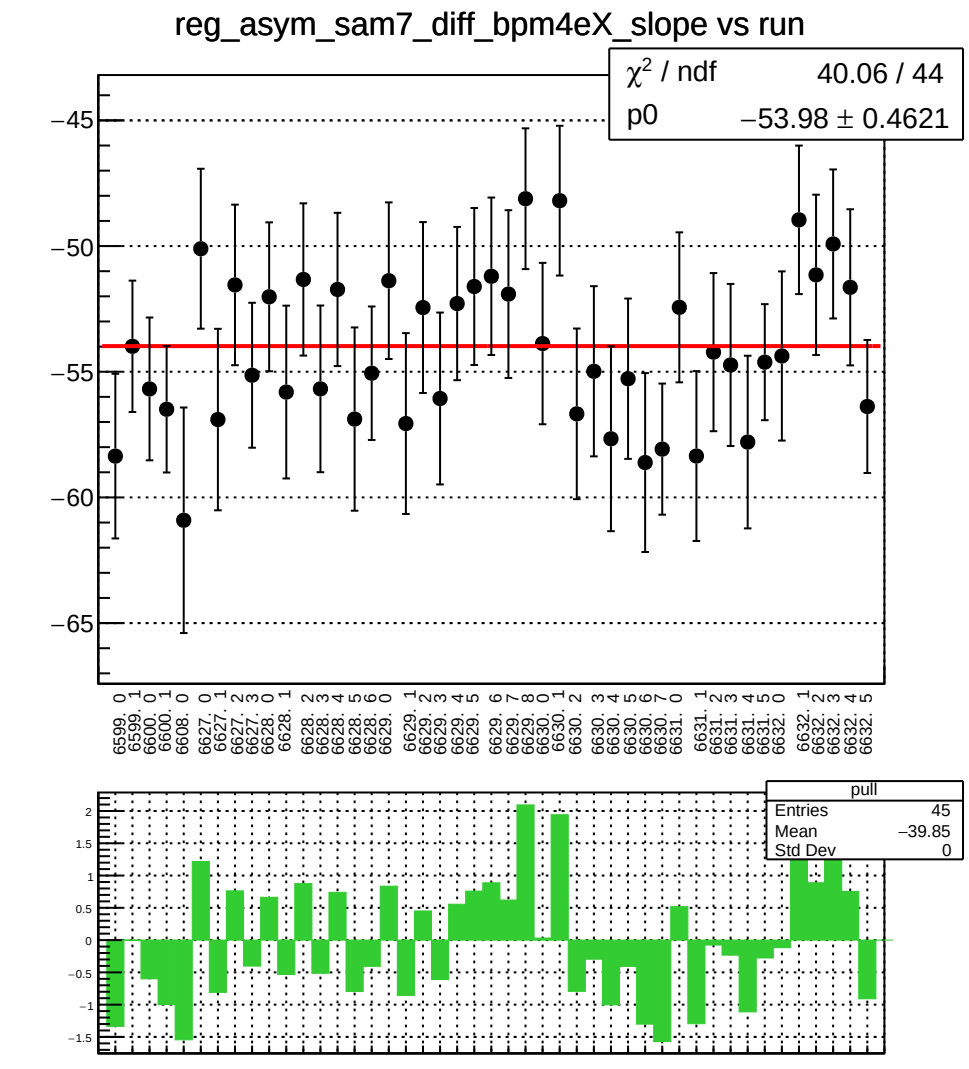

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 5.197 / 44
p0 −0.1725 ± 0.06252
pull
Entries 45
Mean −59.63
Std Dev 0
pull1D
Entries 45
Mean −0.01184
Std Dev 0.3396

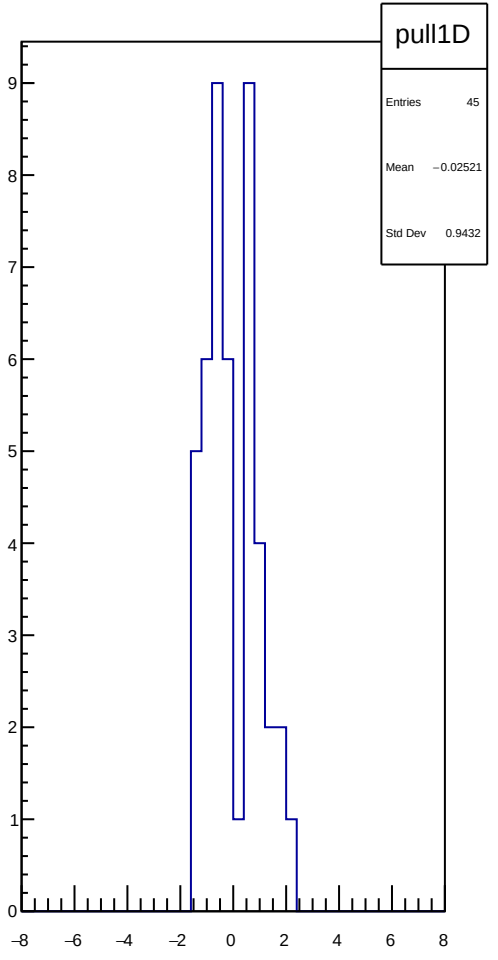

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 36.02 / 44
p0 16.99 ± 0.4482
pull
Entries 45
Mean −37.88
Std Dev 0

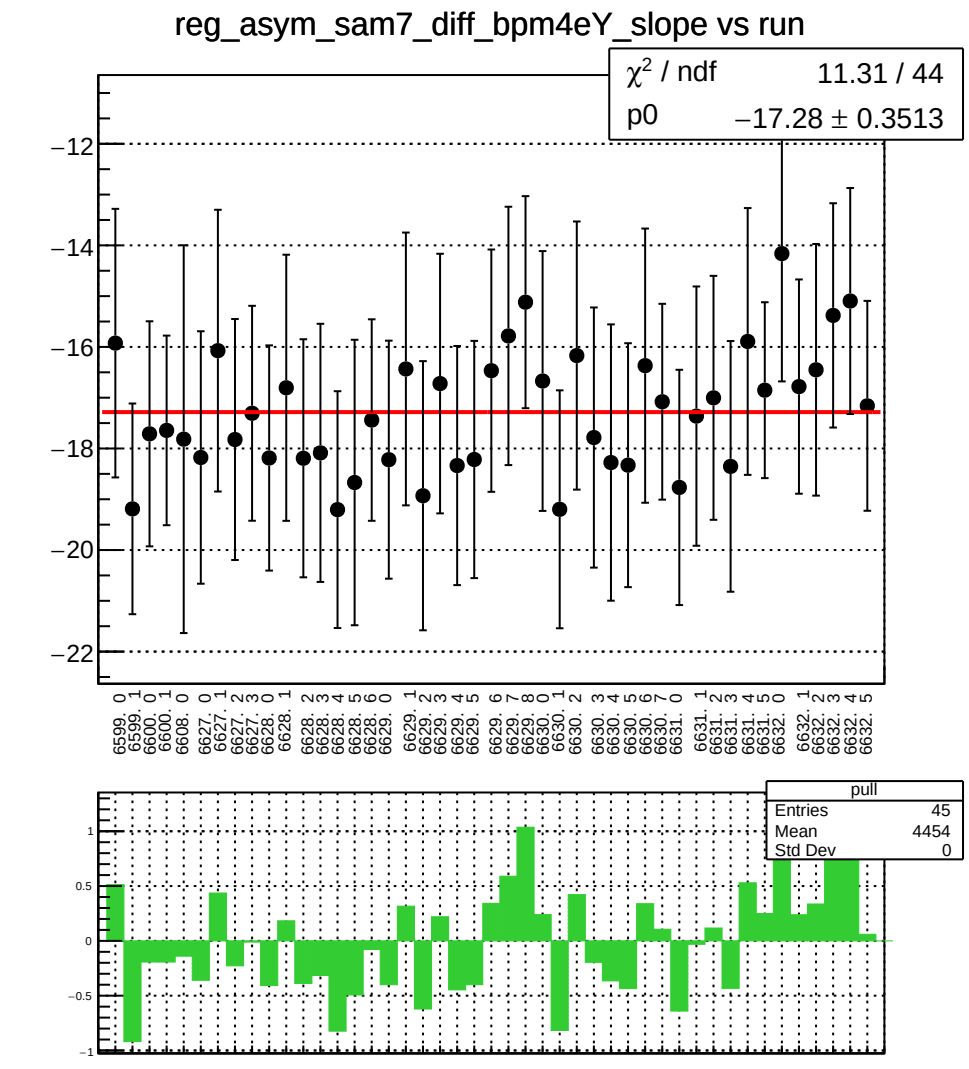

pull1D
Entries 45
Mean 0.0161
Std Dev 0.8946

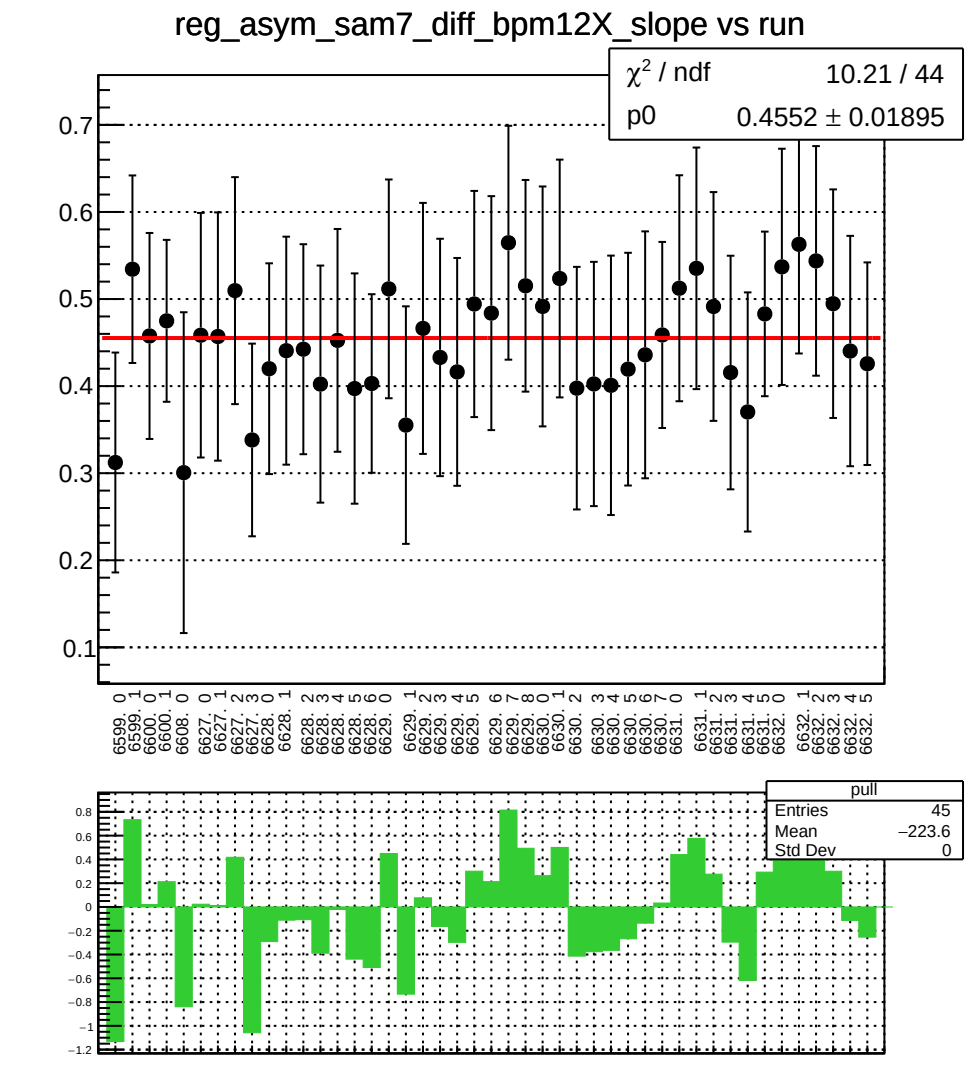

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 10.04 / 44
p0 9.978 ± 0.2935
14
12
10
8
6
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 582.4
Std Dev 0
1
0.5
0
−0.5
−1

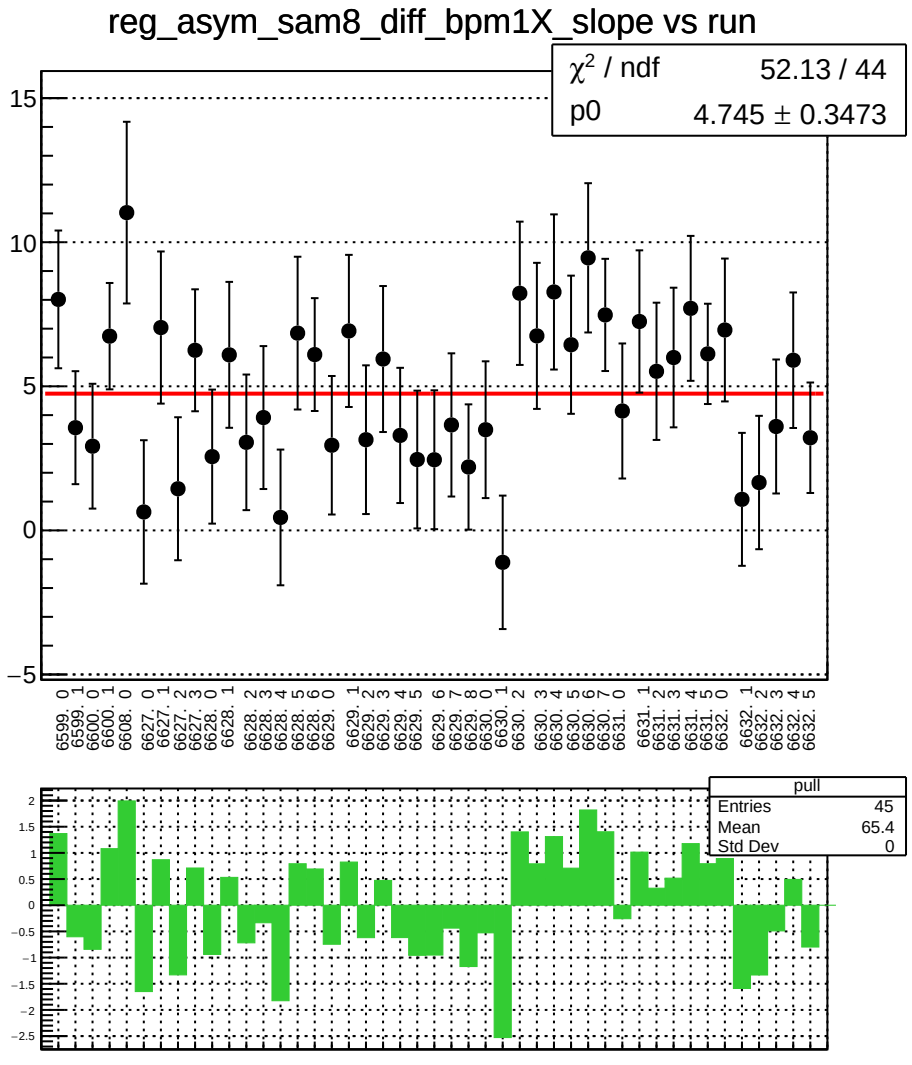

pull1D
Entries 45
Mean −0.004083
Std Dev 0.4722
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

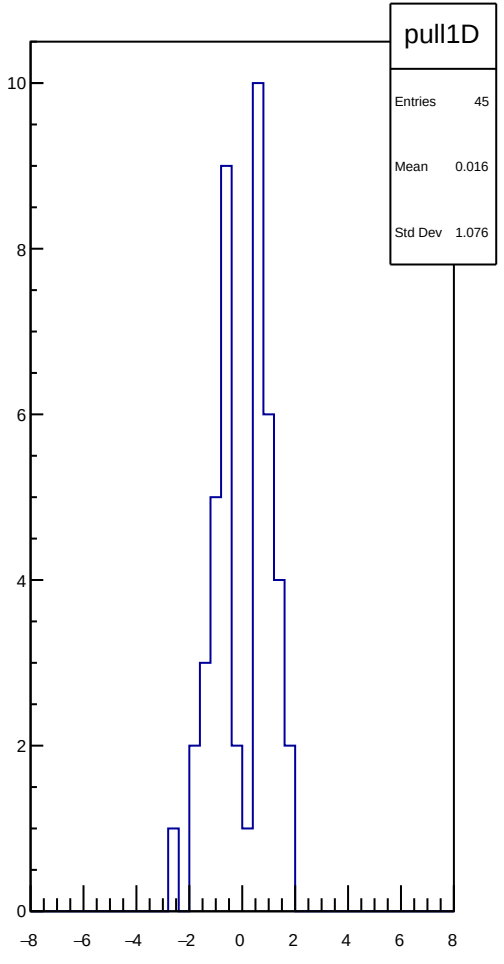

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 40.06 / 44
p0 −53.98 ± 0.4621
−45
−50
−55
−60
−65
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −39.85
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

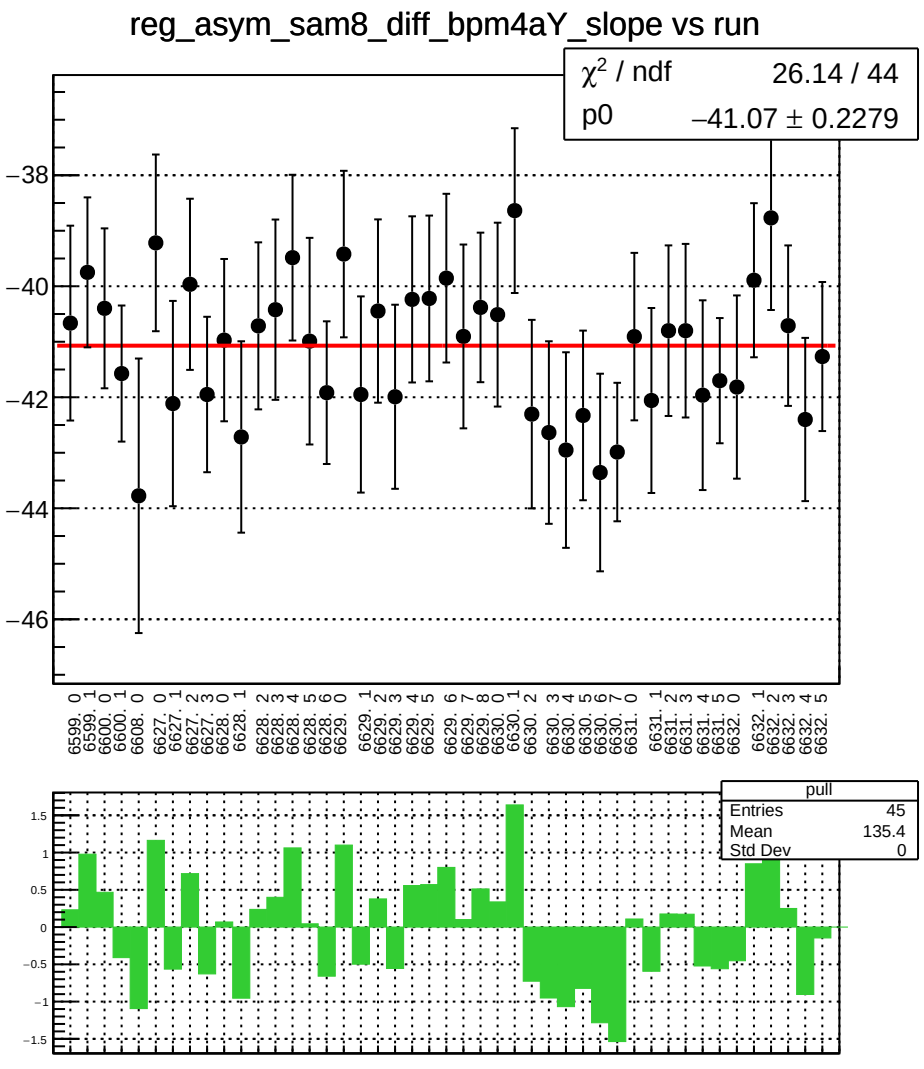

pull1D
Entries 45
Mean −0.02521
Std Dev 0.9432
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

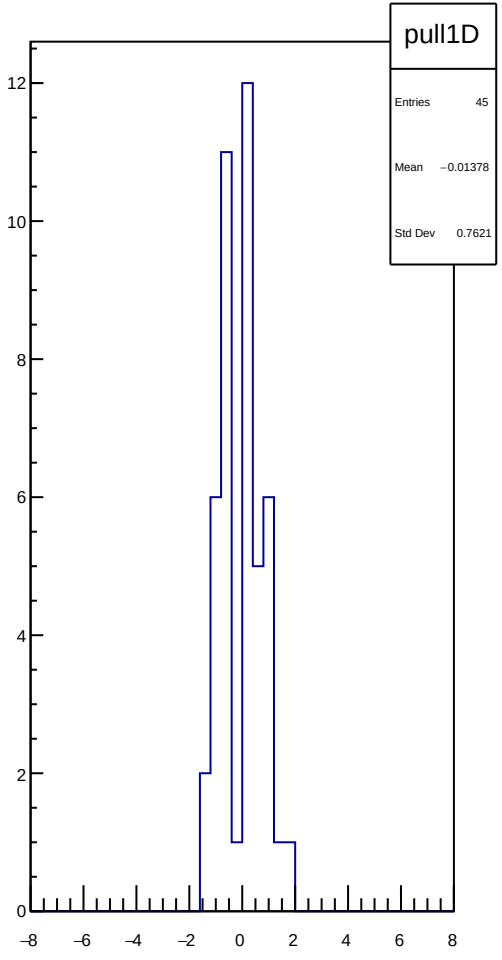

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 11.31 / 44
p0 −17.28 ± 0.3513
−12
−14
−16
−18
−20
−22
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 4454
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean 0.0005874
Std Dev 0.5013
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

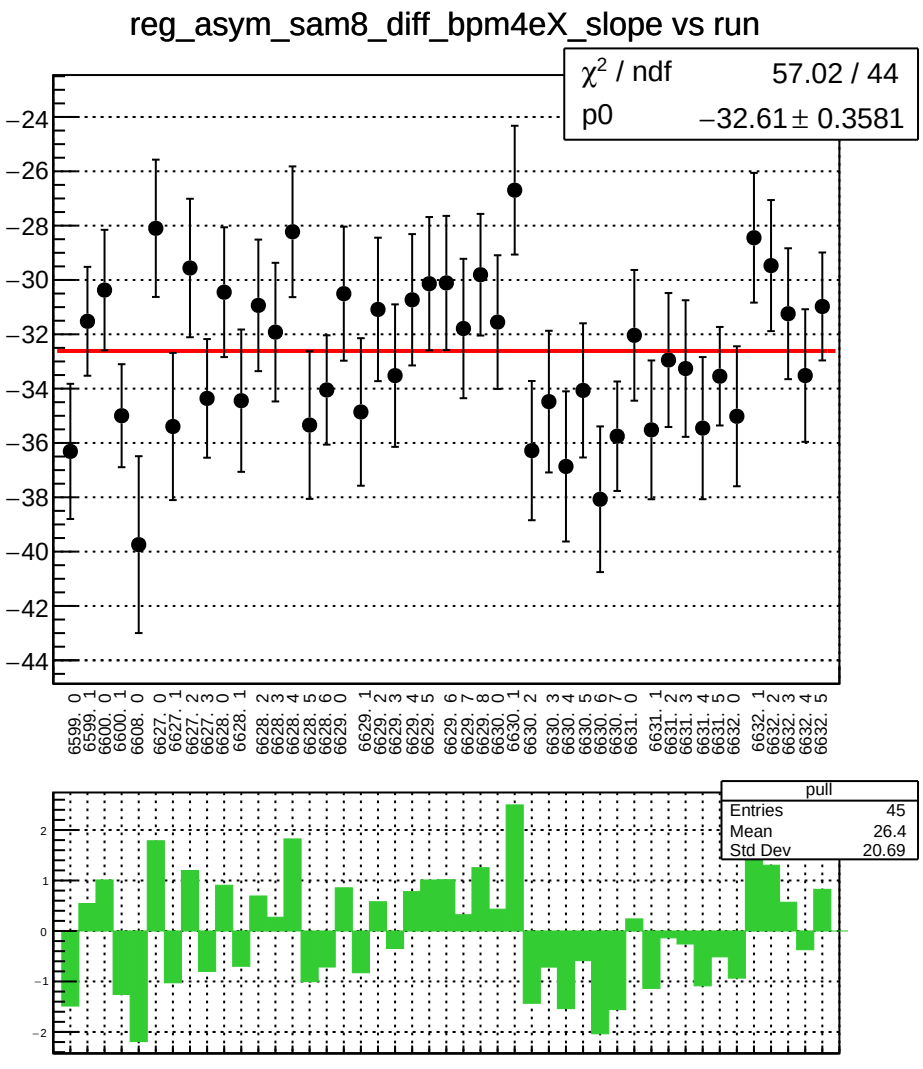

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 10.21 / 44
p0 0.4552 ± 0.01895
pull
Entries 45
Mean −223.6
Std Dev 0
pull1D
Entries 45
Mean −0.007662
Std Dev 0.4764

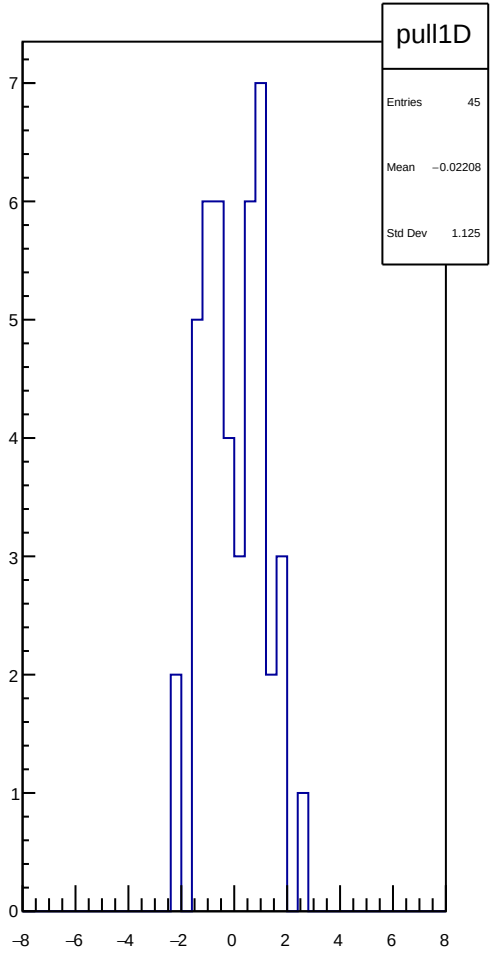

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 52.13 / 44
p0 4.745 ± 0.3473
pull
Entries 45
Mean 65.4
Std Dev 0

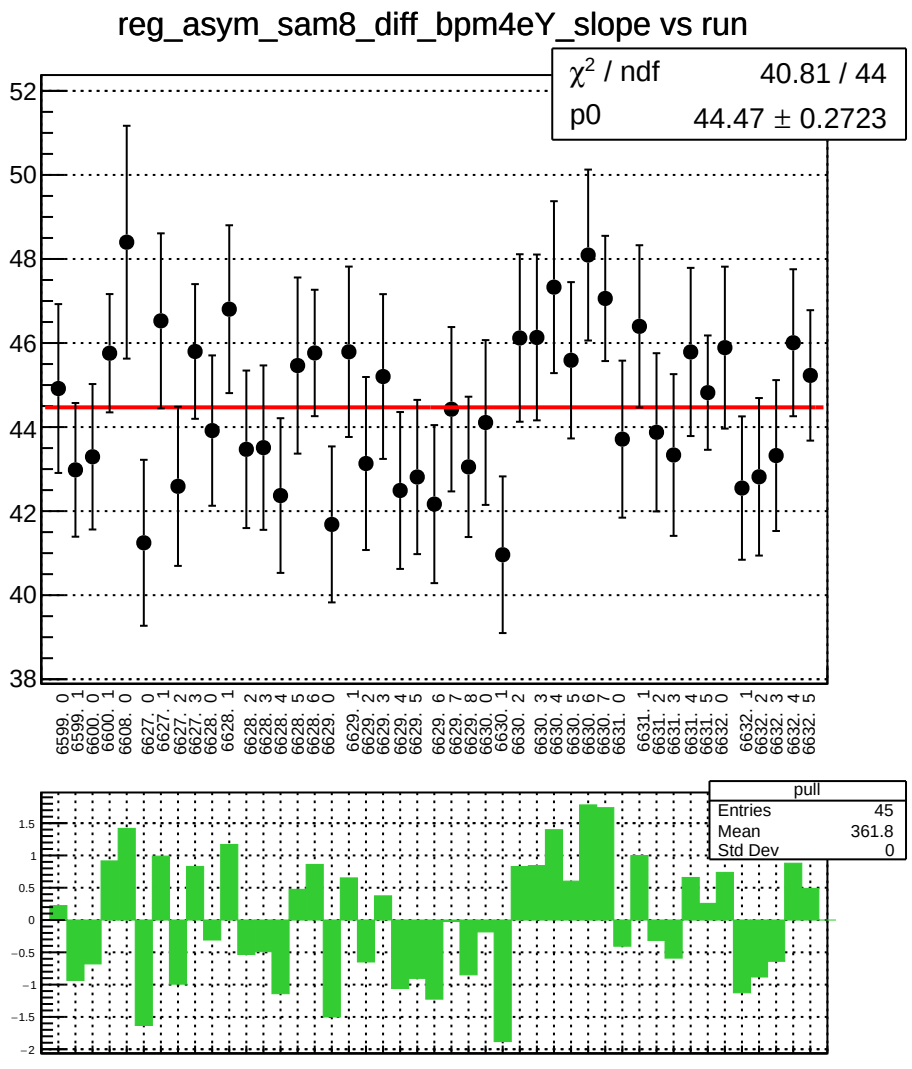

pull1D
Entries 45
Mean 0.016
Std Dev 1.076

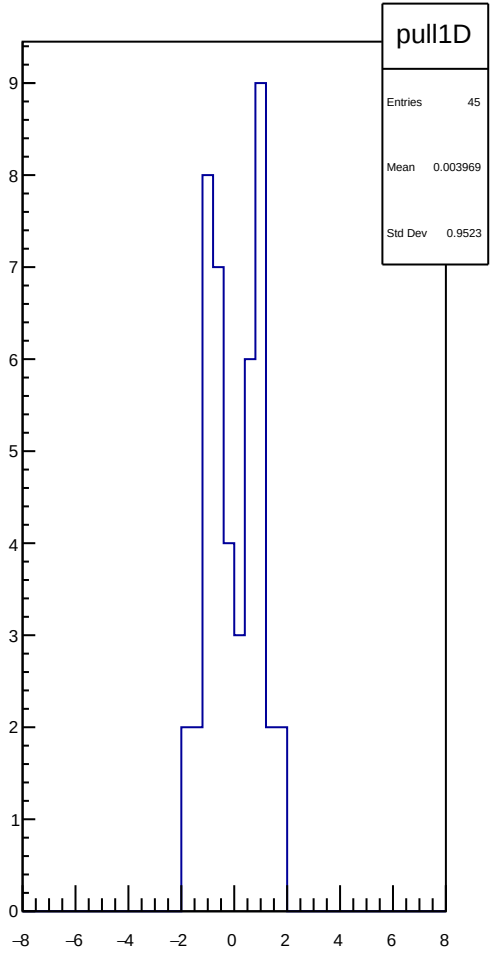

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 26.14 / 44
p0 −41.07 ± 0.2279
−38
−40
−42
−44
−46
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 135.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

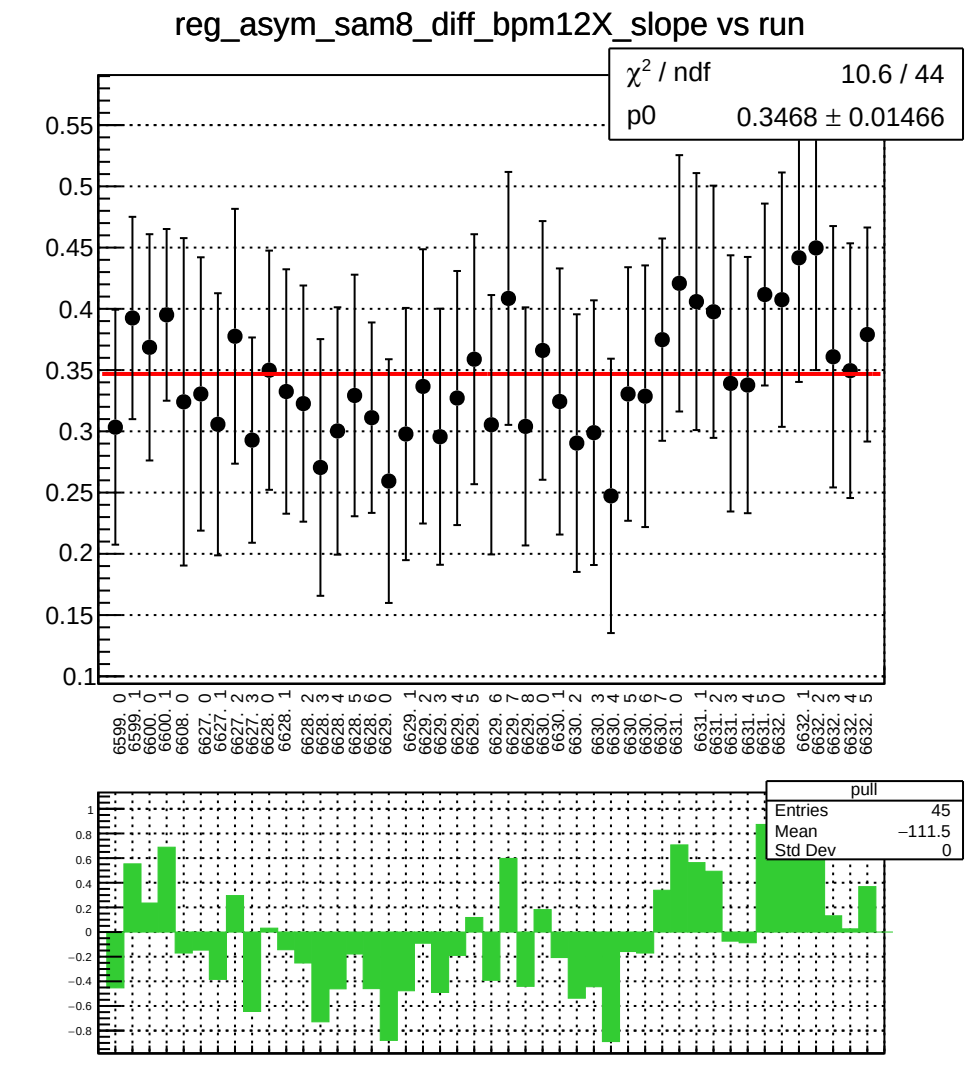

pull1D
Entries 45
Mean −0.01378
Std Dev 0.7621
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

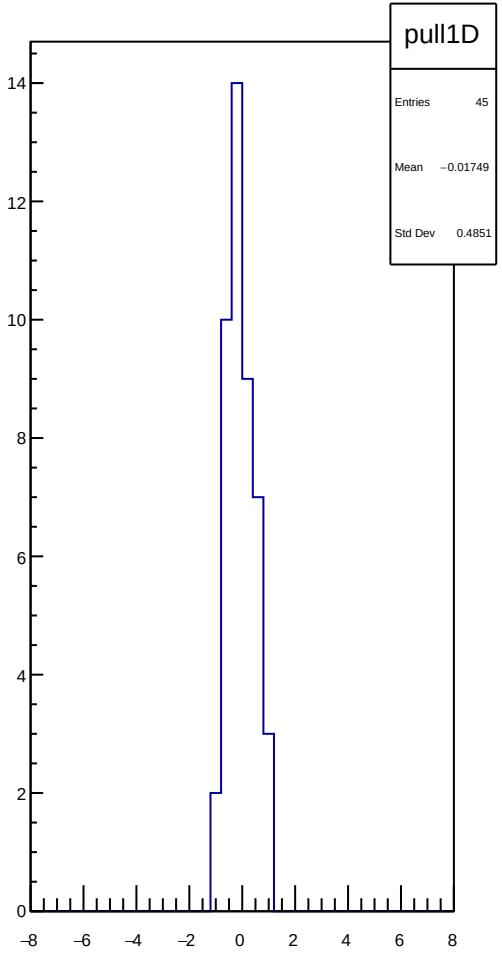

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 57.02 / 44
p0 −32.61 ± 0.3581
pull
Entries 45
Mean 26.4
Std Dev 20.69

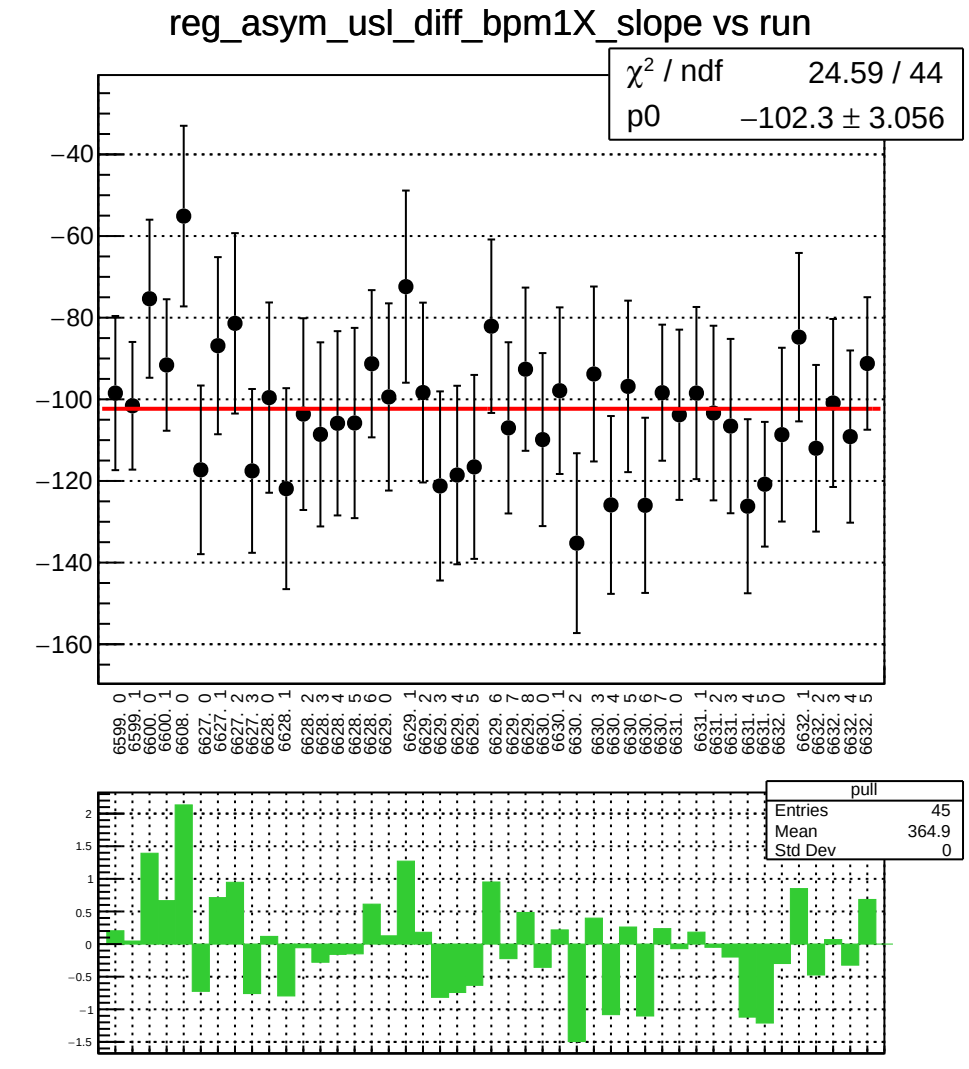

pull1D
Entries 45
Mean −0.02208
Std Dev 1.125

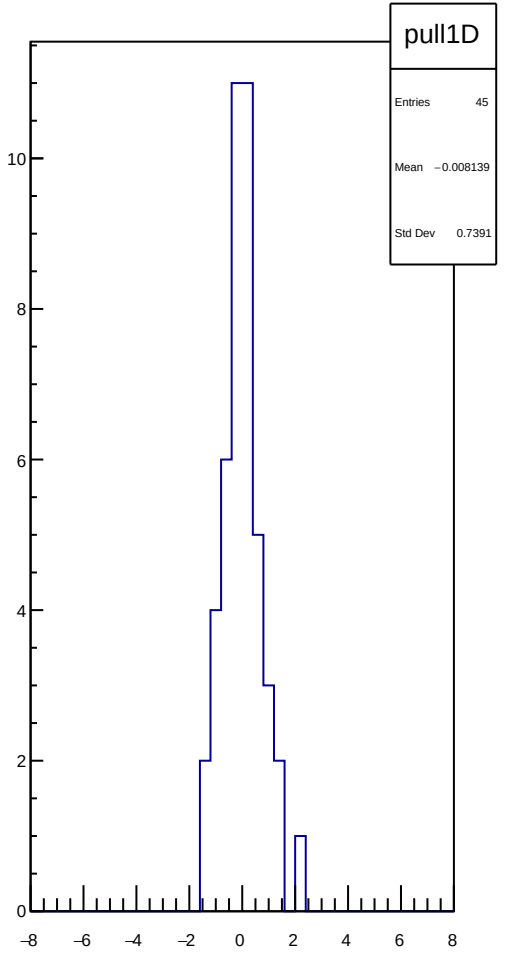

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 40.81 / 44
p0 44.47 ± 0.2723
pull
Entries 45
Mean 361.8
Std Dev 0

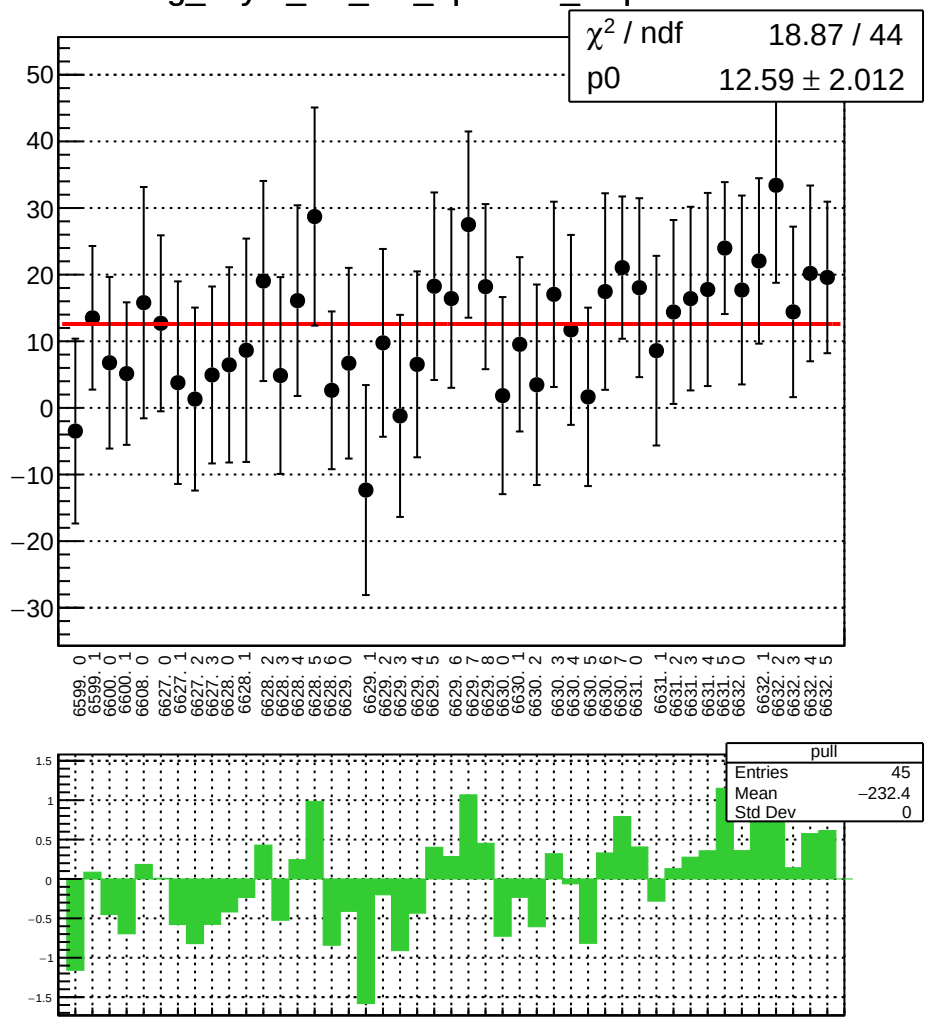

pull1D
Entries 45
Mean 0.003969
Std Dev 0.9523

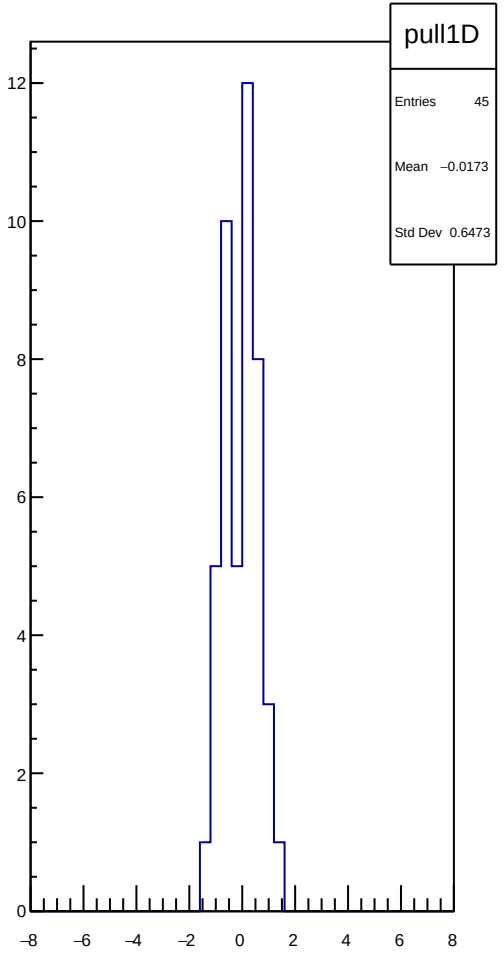

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 10.6 / 44
p0 0.3468 ± 0.01466
pull
Entries 45
Mean −111.5
Std Dev 0

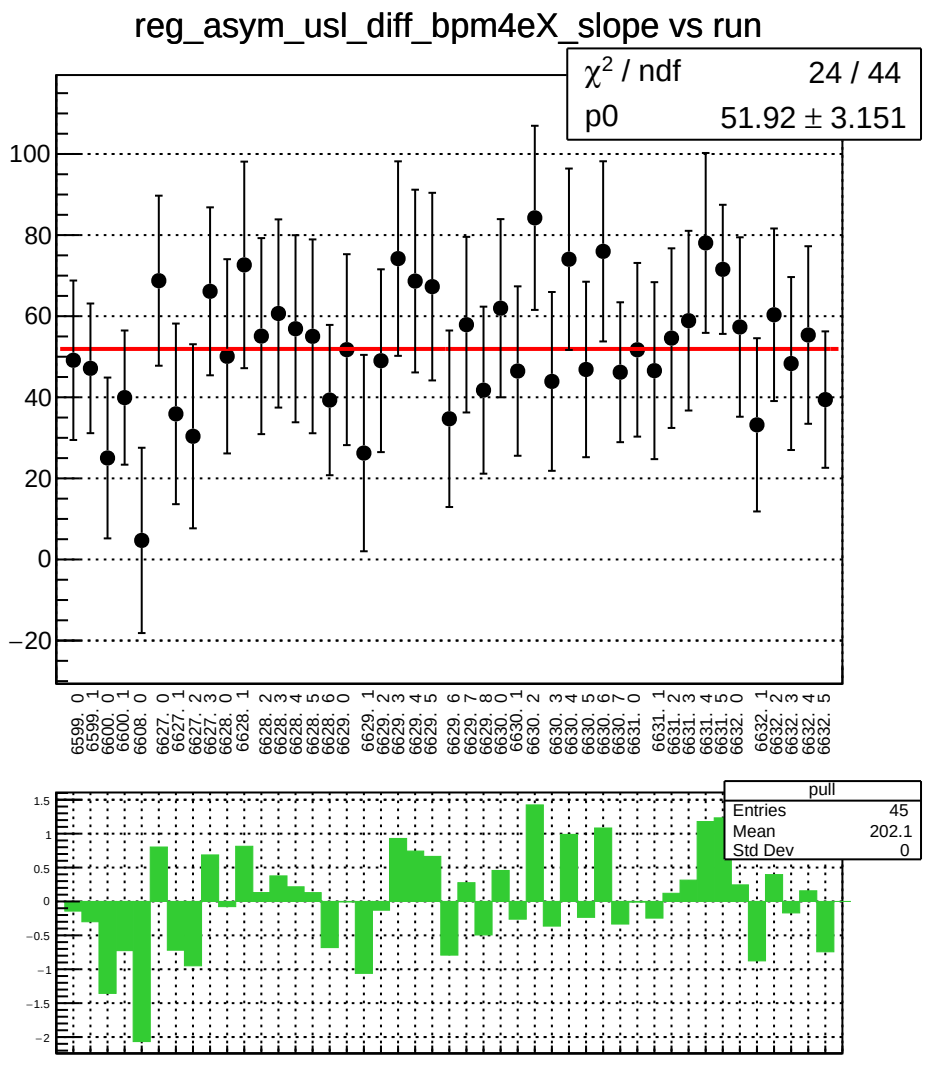

pull1D
Entries 45
Mean −0.01749
Std Dev 0.4851

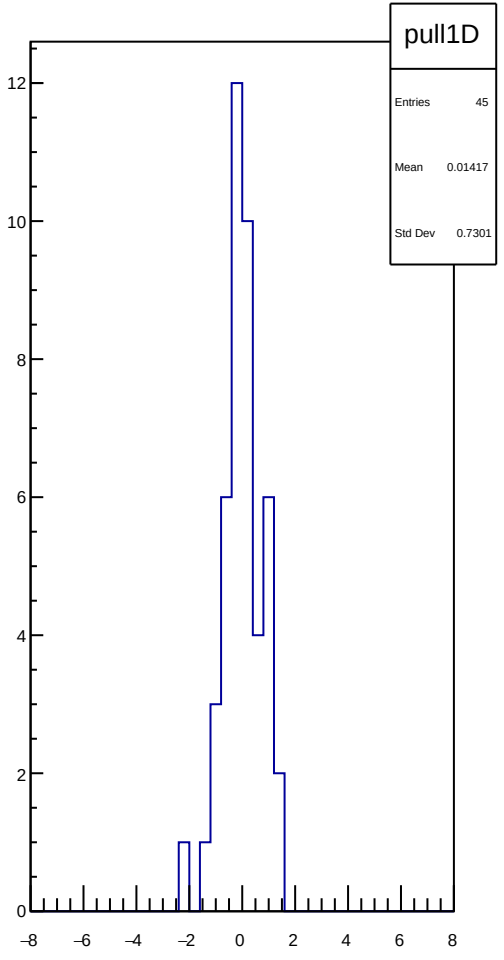

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 24.59 / 44
p0 −102.3 ± 3.056
pull
Entries 45
Mean 364.9
Std Dev 0

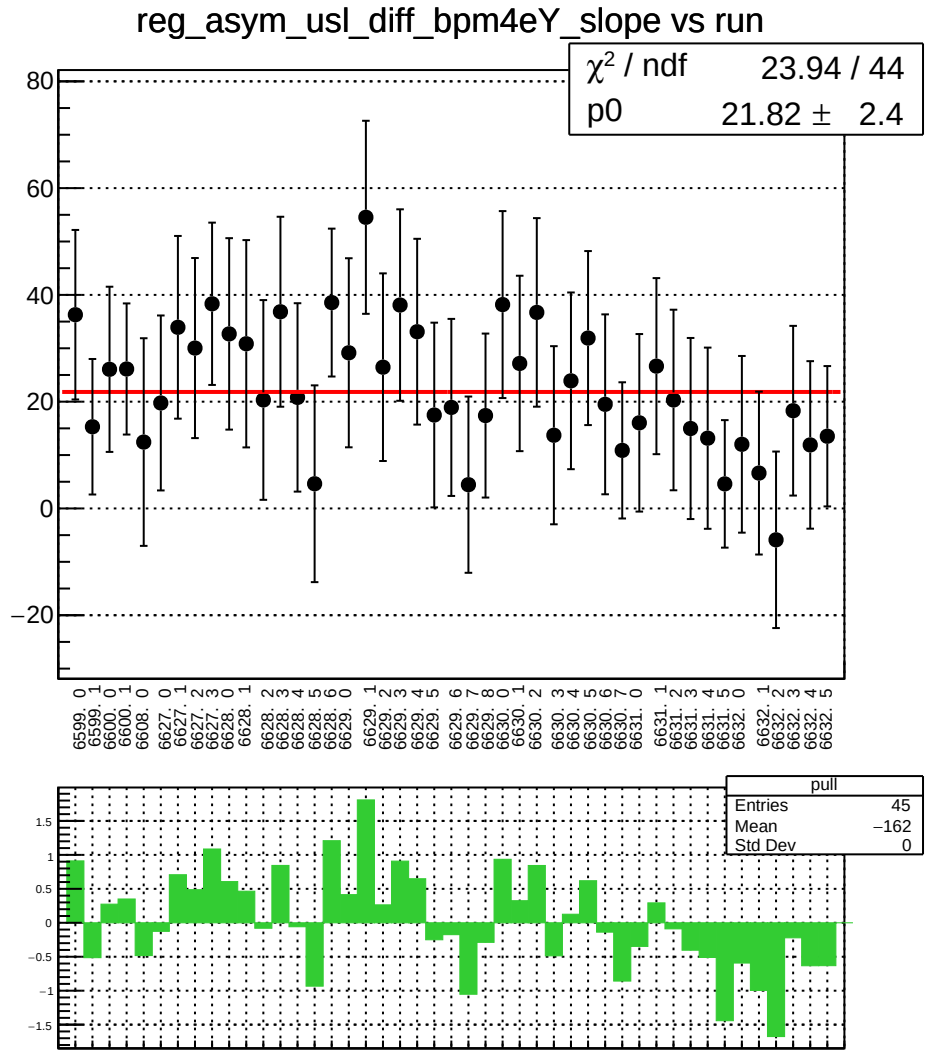

pull1D
Entries 45
Mean −0.008139
Std Dev 0.7391

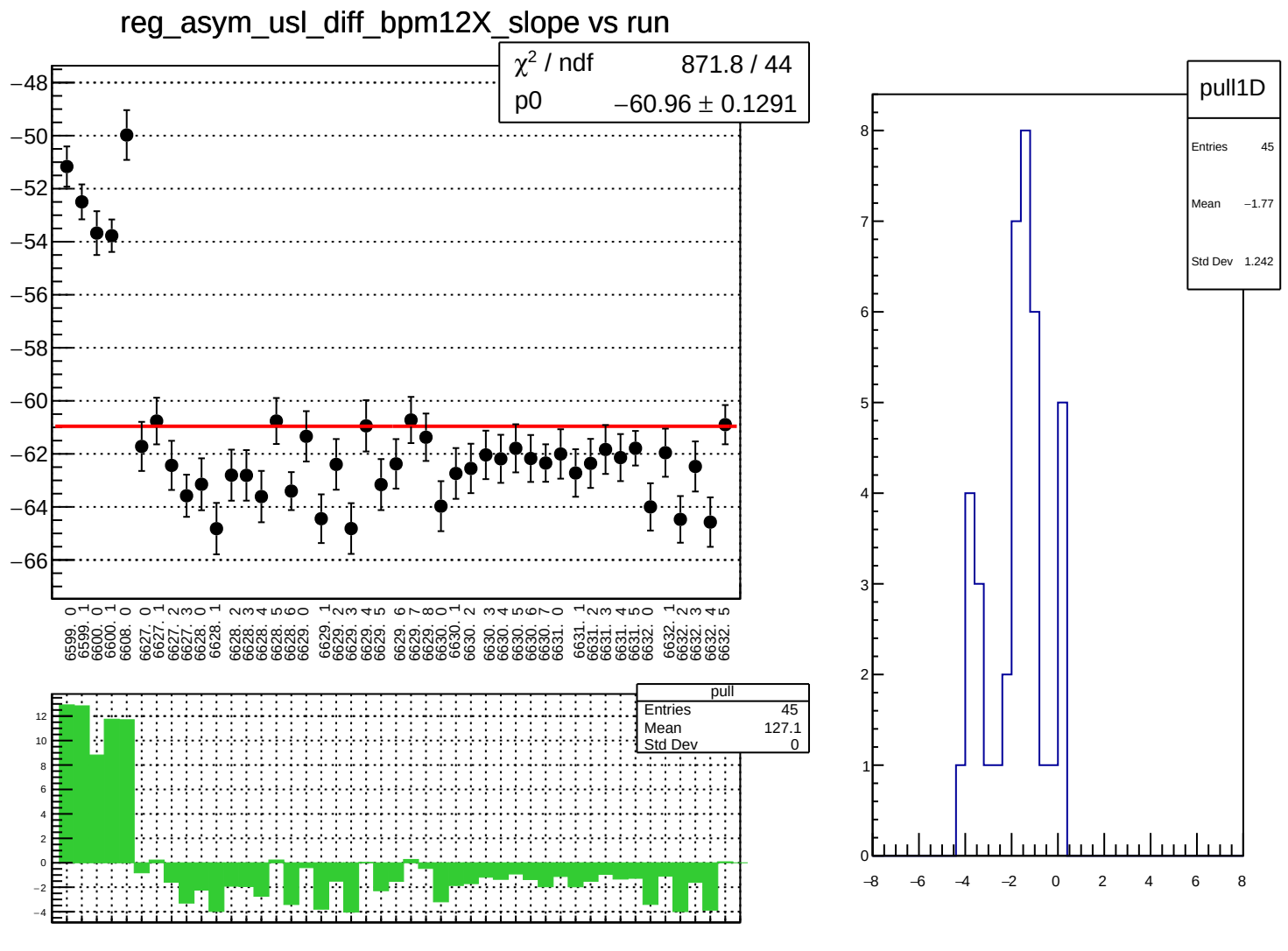

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 18.87 / 44
p0 12.59 ± 2.012
pull
Entries 45
Mean −232.4
Std Dev 0

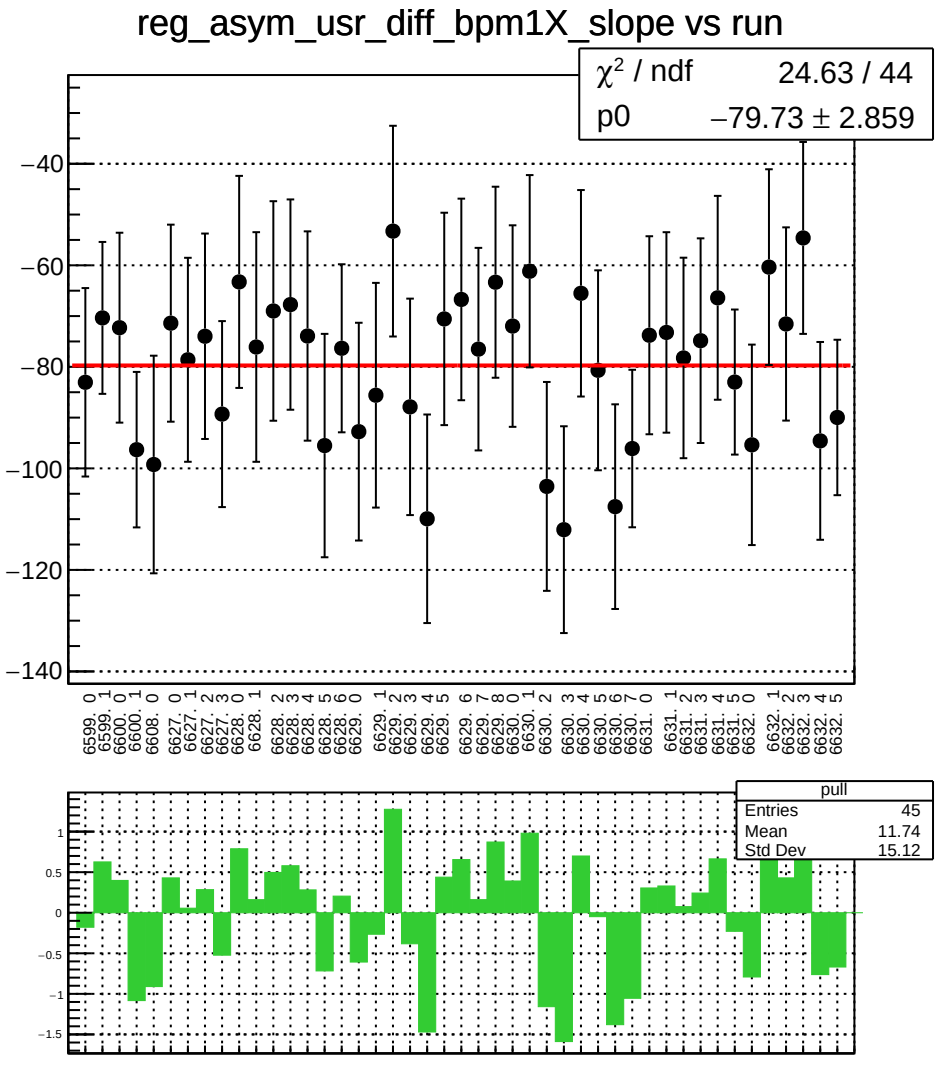

pull1D
Entries 45
Mean −0.0173
Std Dev 0.6473

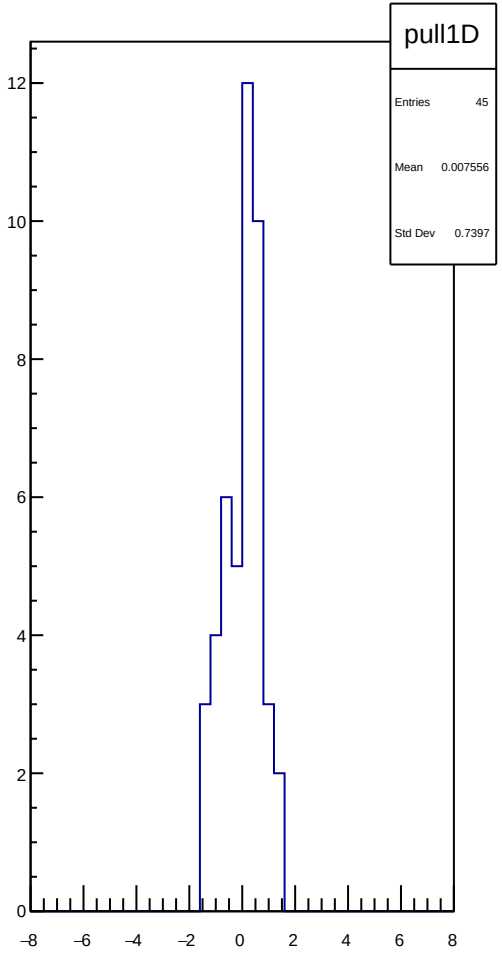

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 24 / 44
p0 51.92 ± 3.151
pull
Entries 45
Mean 202.1
Std Dev 0

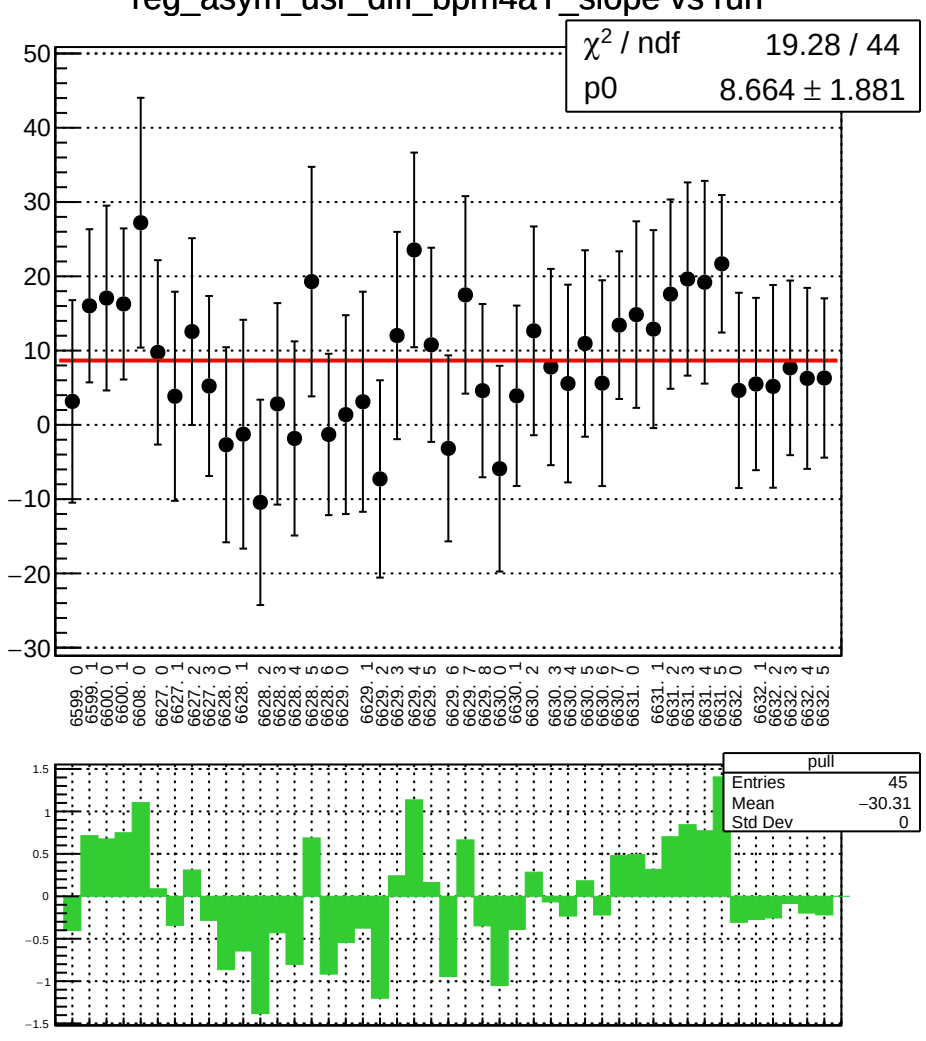

pull1D
Entries 45
Mean 0.01417
Std Dev 0.7301

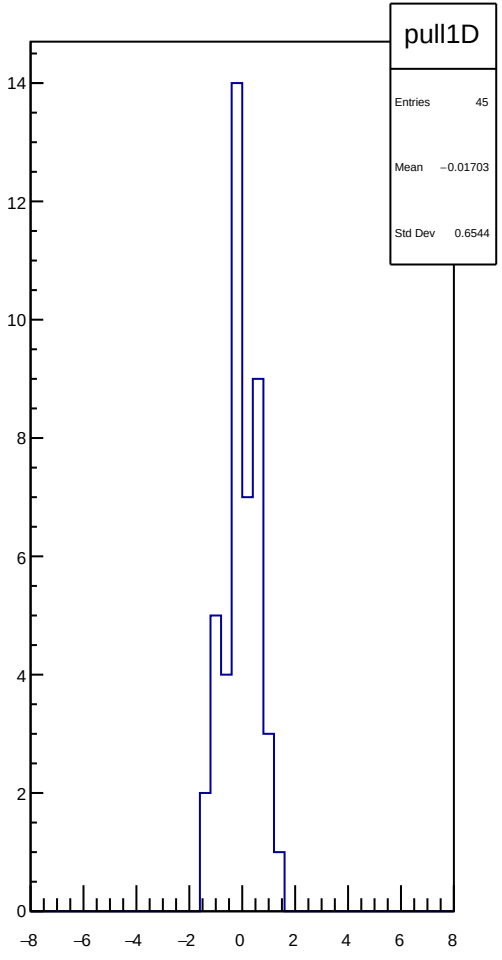

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 23.94 / 44
p0 21.82 ± 2.4
80
60
40
20
0
−20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −162
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.02551
Std Dev 0.7289
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

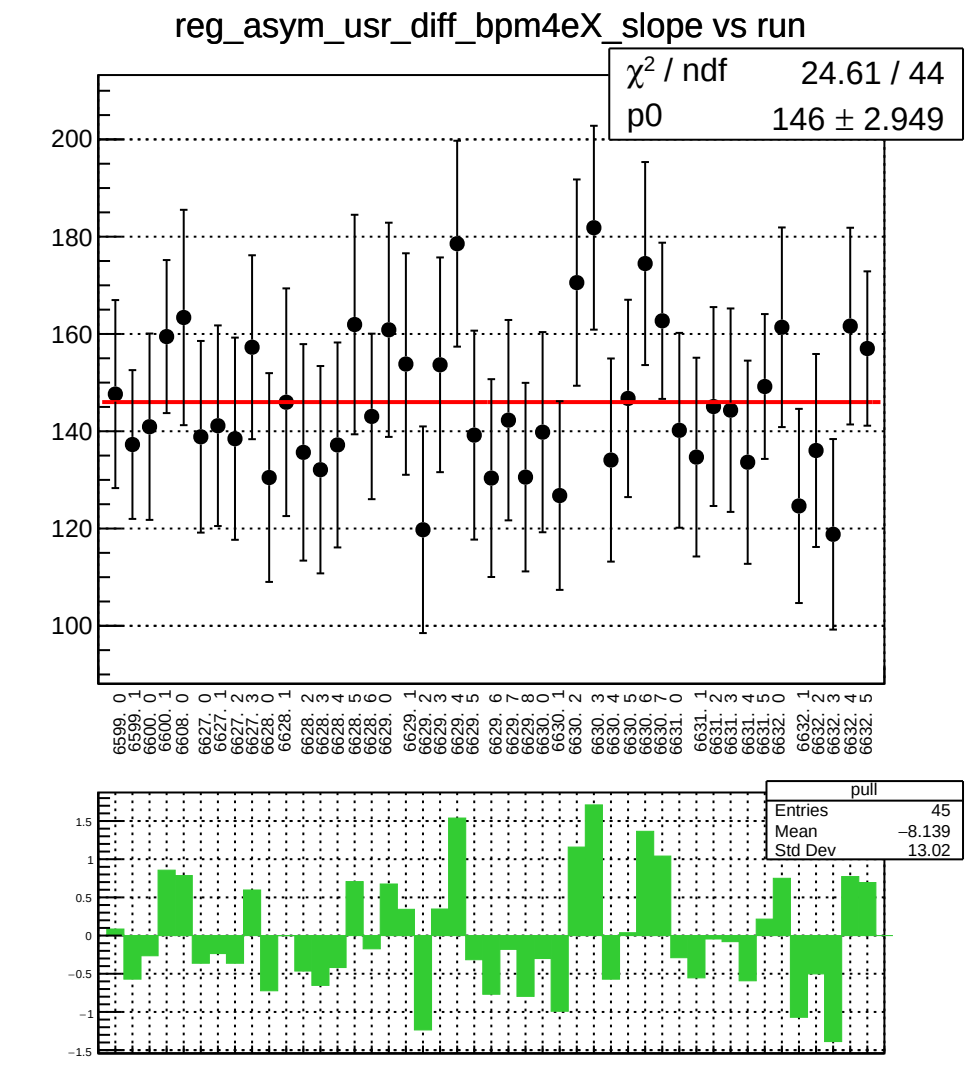

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 871.8 / 44
p0 −60.96 ± 0.1291
pull
Entries 45
Mean 127.1
Std Dev 0
pull1D
Entries 45
Mean −1.77
Std Dev 1.242

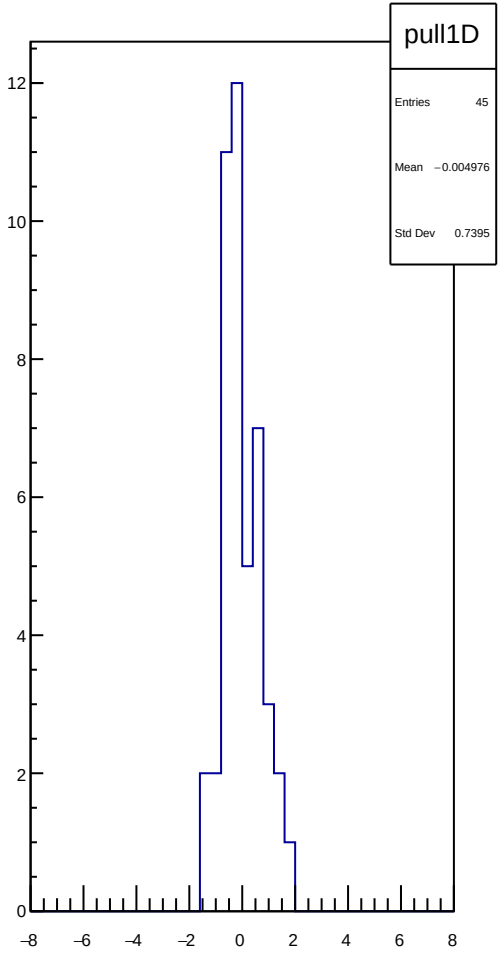

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 24.63 / 44
p0 −79.73 ± 2.859
pull
Entries 45
Mean 11.74
Std Dev 15.12

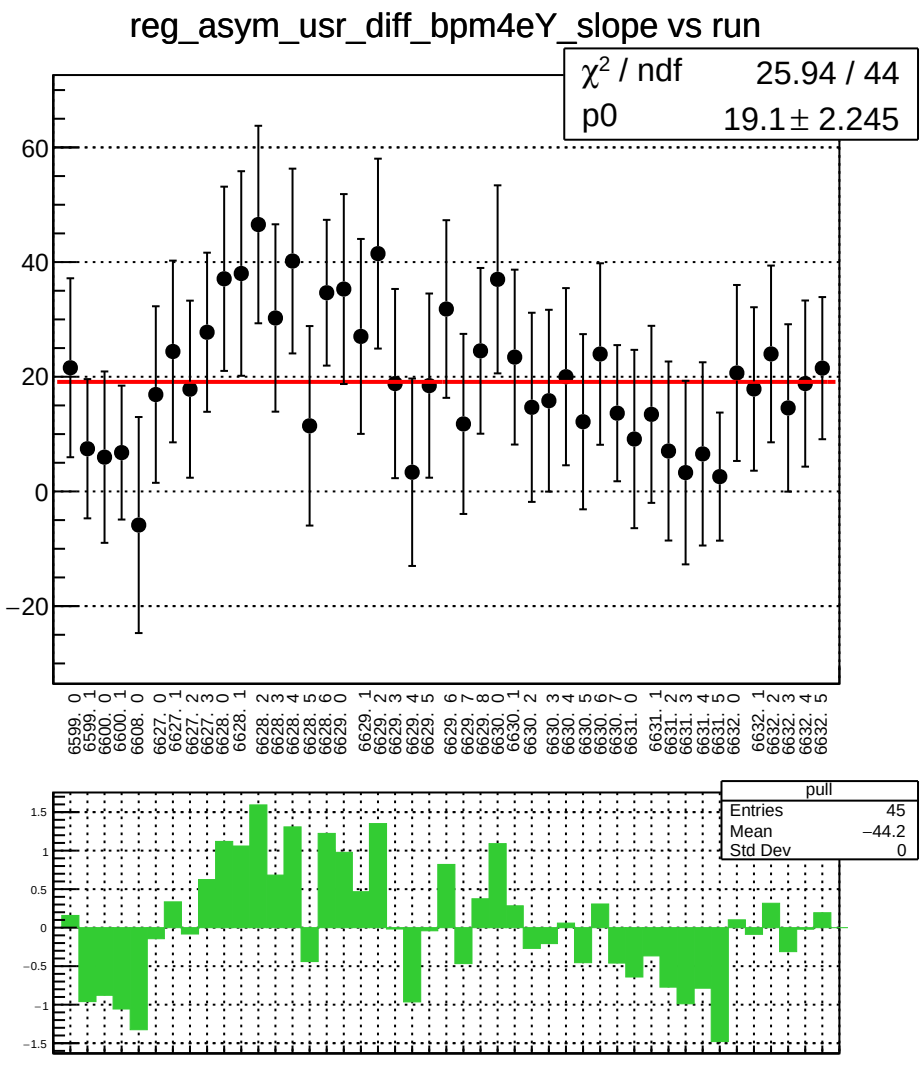

pull1D
Entries 45
Mean 0.007556
Std Dev 0.7397

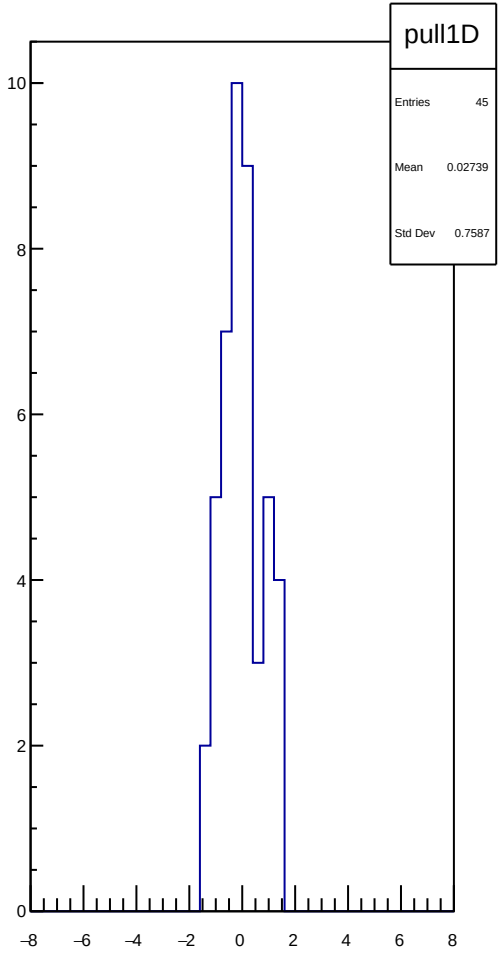

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 19.28 / 44
p0 8.664 ± 1.881
pull
Entries 45
Mean −30.31
Std Dev 0

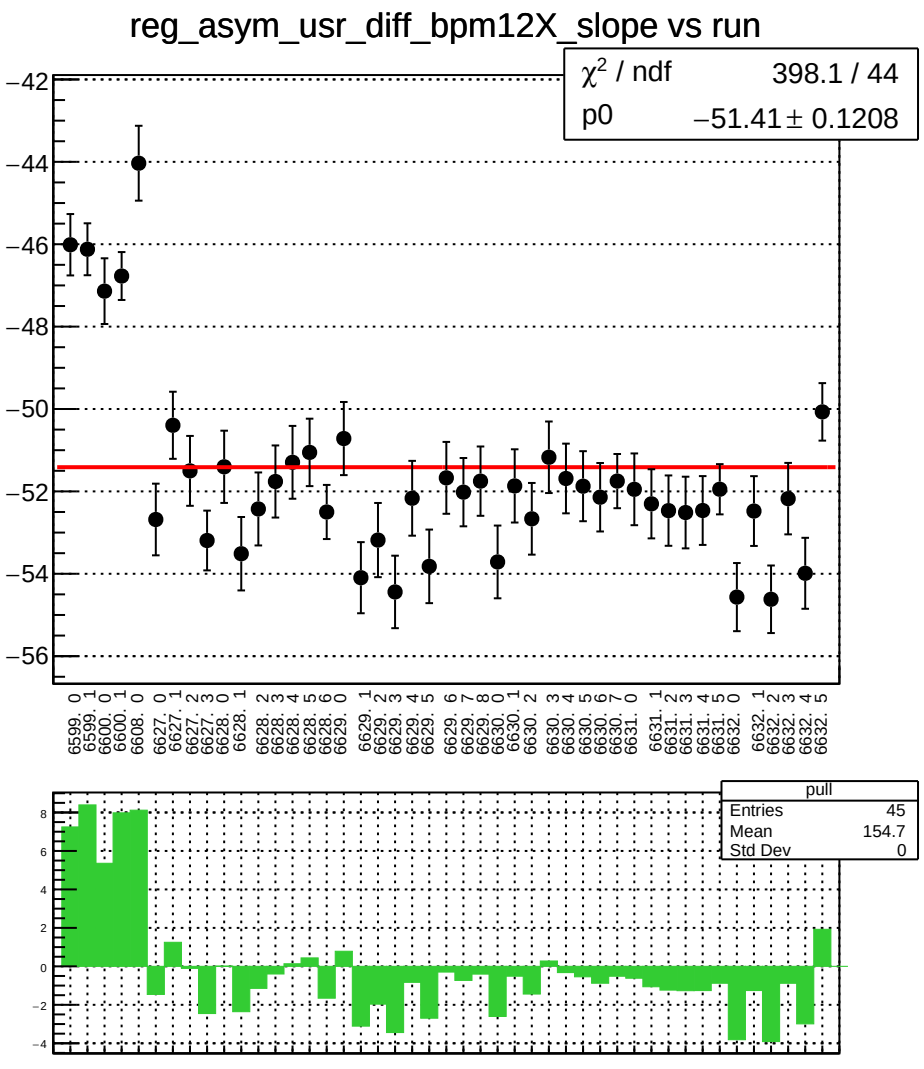

pull1D
Entries 45
Mean −0.01703
Std Dev 0.6544

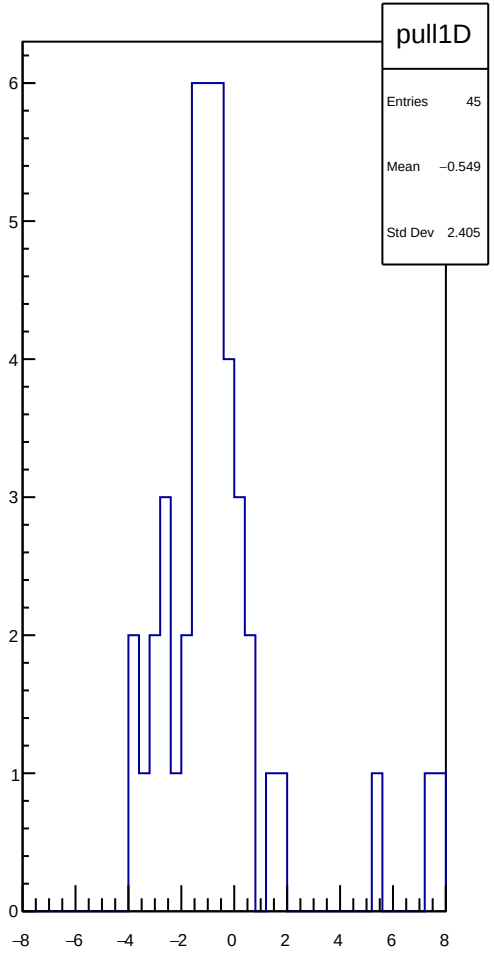

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 24.61 / 44
p0 146 ± 2.949
pull
Entries 45
Mean −8.139
Std Dev 13.02

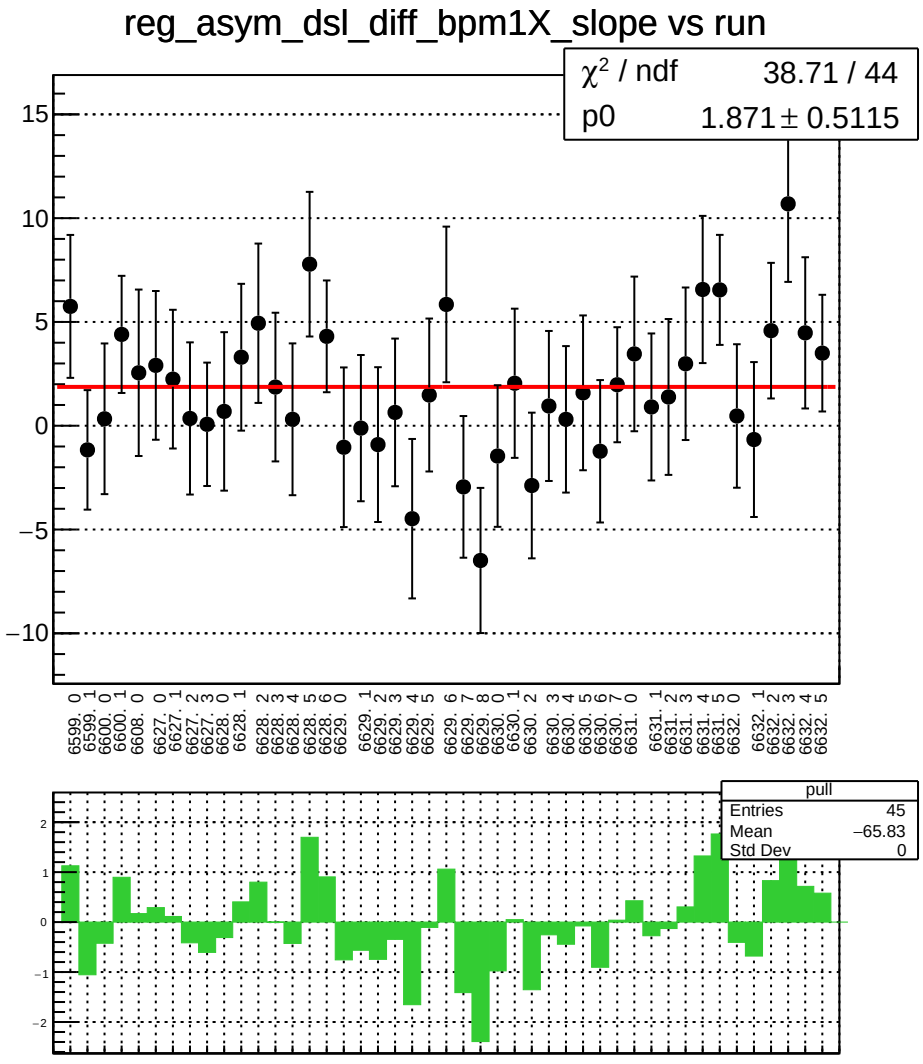

pull1D
Entries 45
Mean −0.004976
Std Dev 0.7395

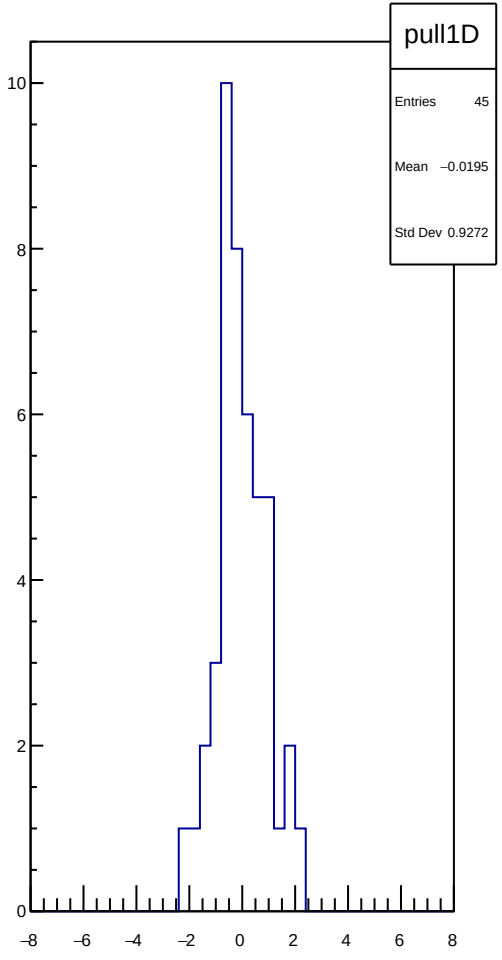

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 25.94 / 44
p0 19.1 ± 2.245
60
40
20
0
−20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −44.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

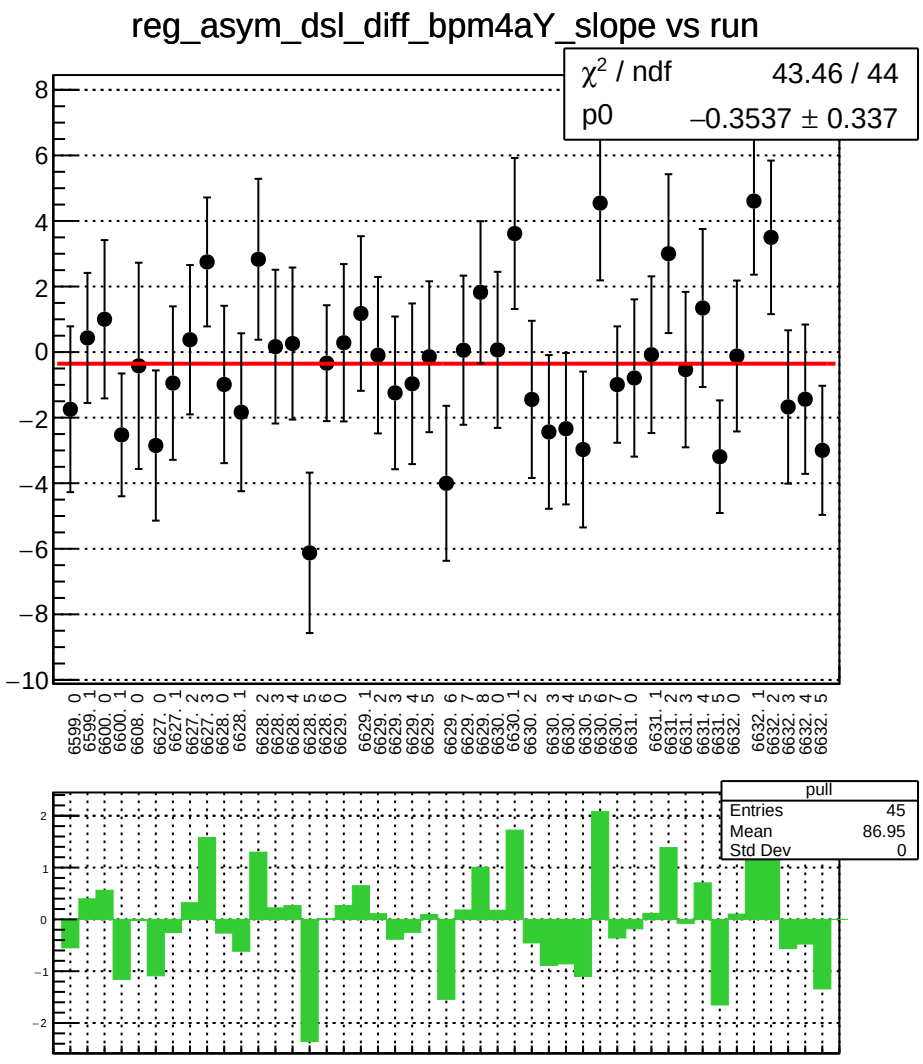

pull1D
Entries 45
Mean 0.02739
Std Dev 0.7587
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

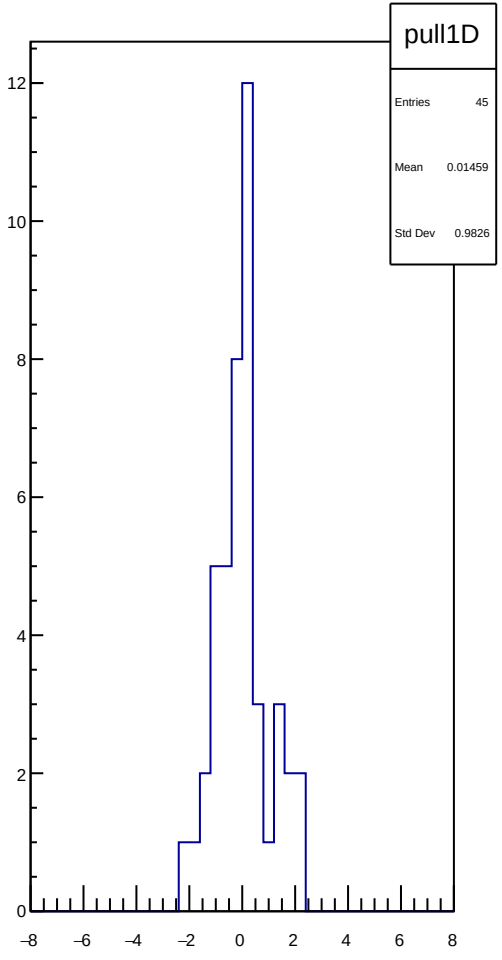

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 398.1 / 44
p0 −51.41 ± 0.1208
pull
Entries 45
Mean 154.7
Std Dev 0

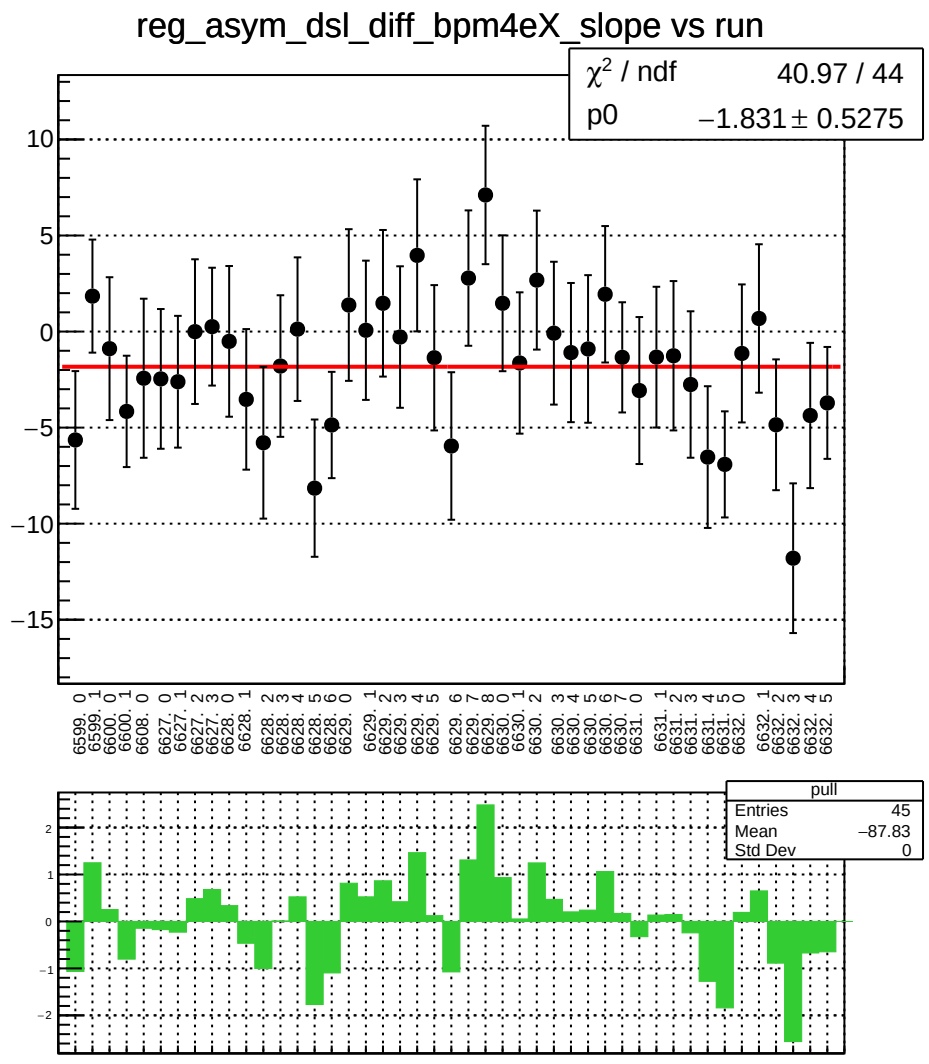

pull1D
Entries 45
Mean −0.549
Std Dev 2.405

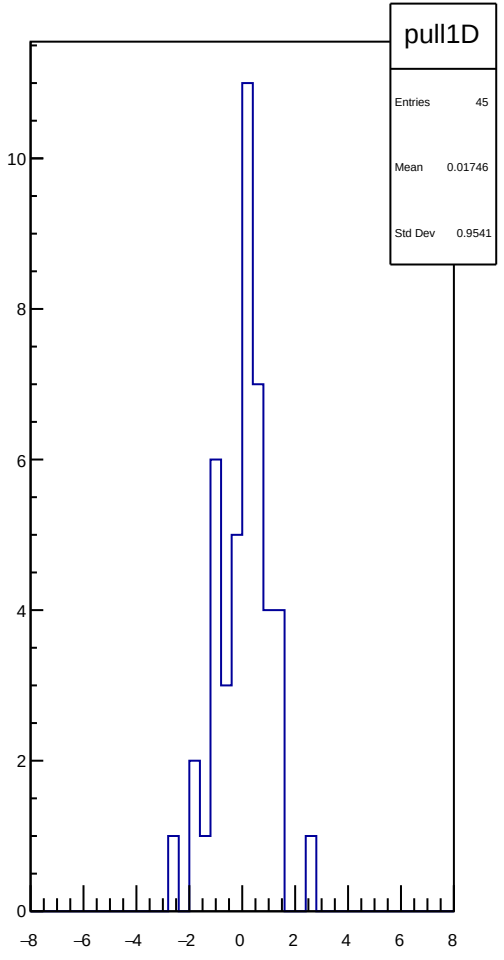

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 38.71 / 44
p0 1.871 ± 0.5115
15
10
5
0
−5
−10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −65.83
Std Dev 0
2
1
0
−1
−2

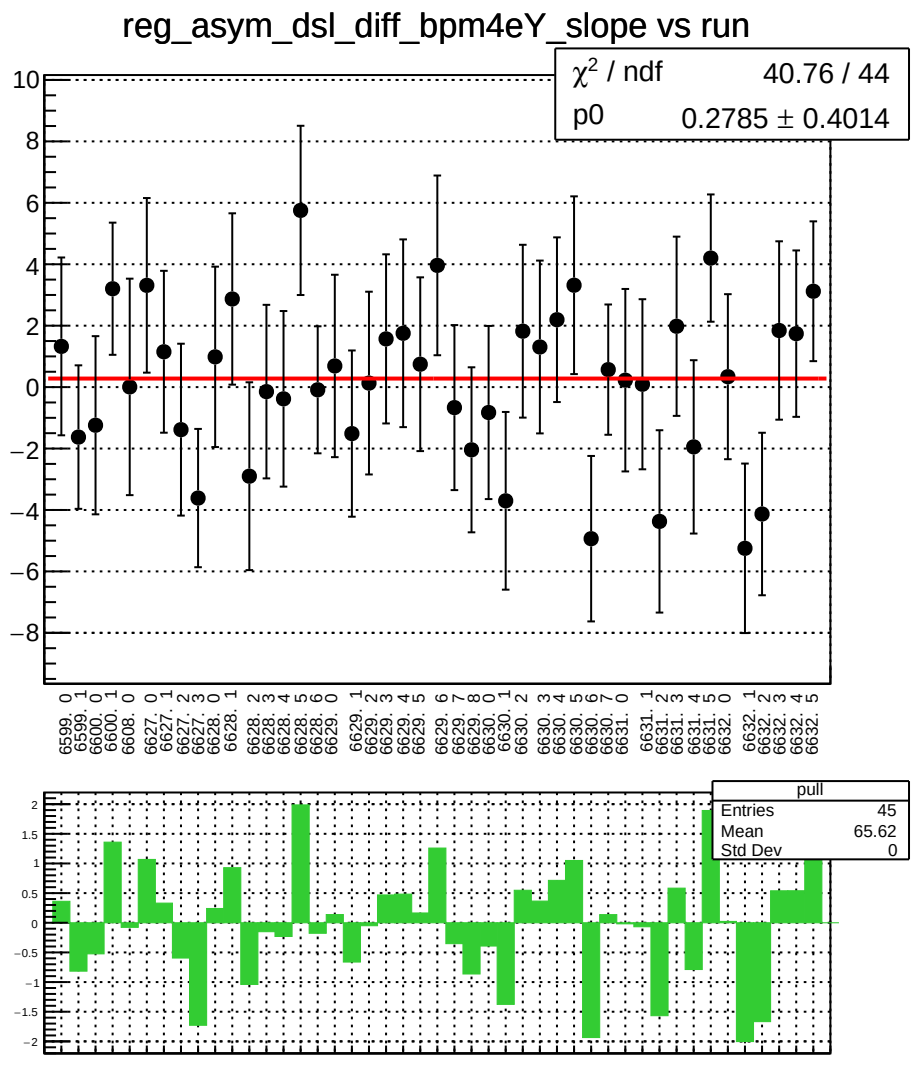

pull1D
Entries 45
Mean −0.0195
Std Dev 0.9272
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

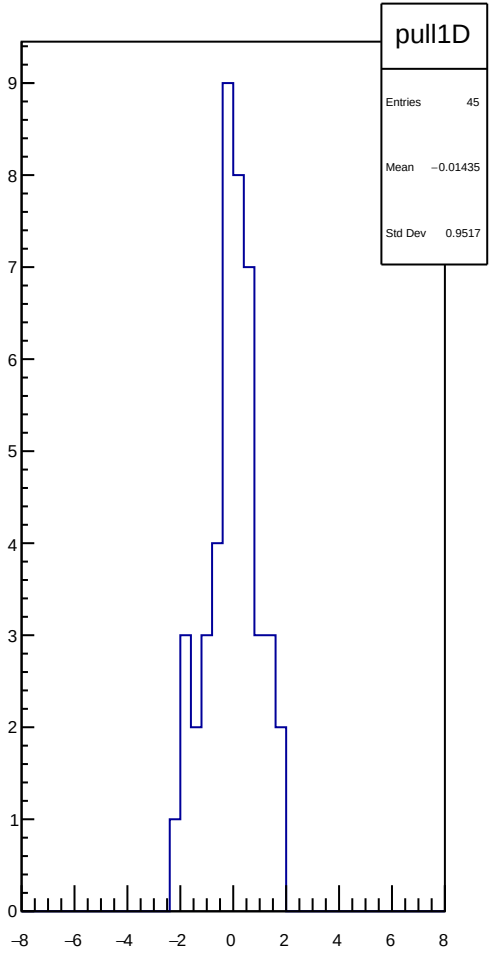

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 43.46 / 44
p0 −0.3537 ± 0.337
pull
Entries 45
Mean 86.95
Std Dev 0

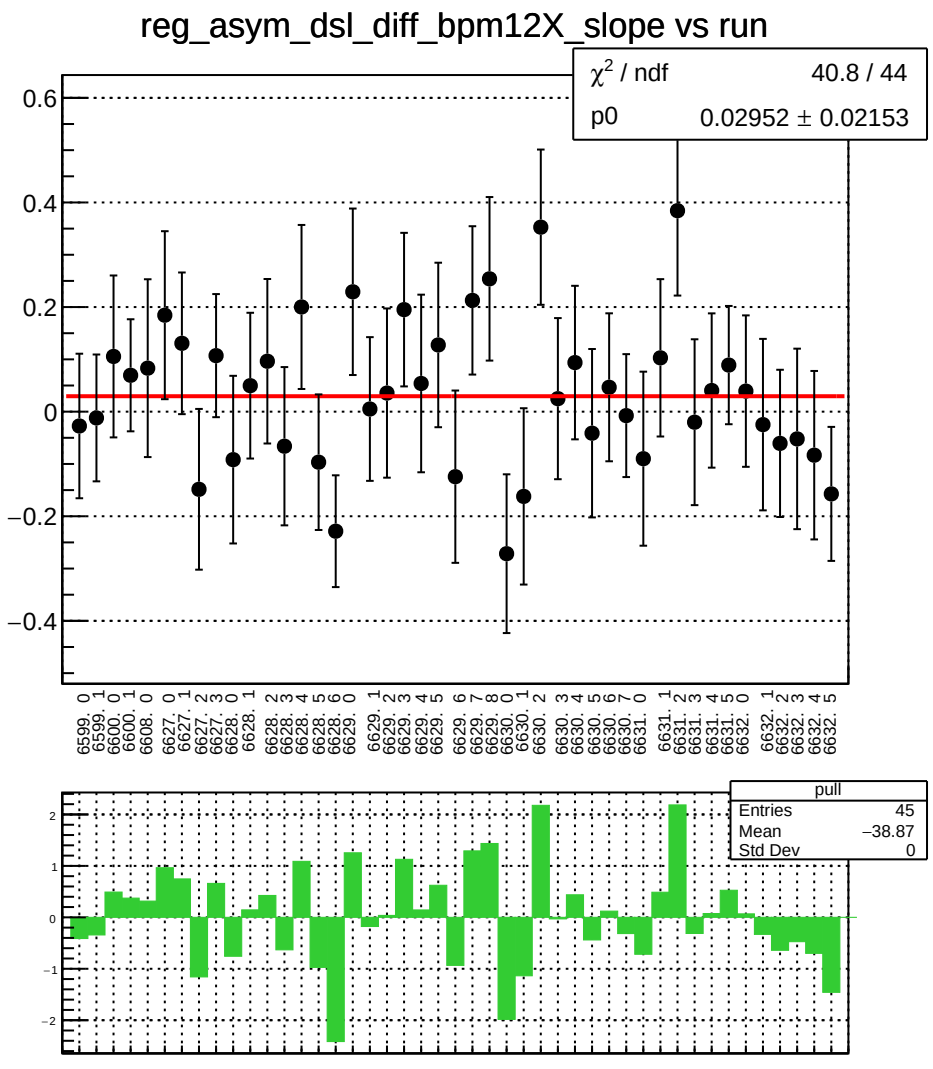

pull1D
Entries 45
Mean 0.01459
Std Dev 0.9826

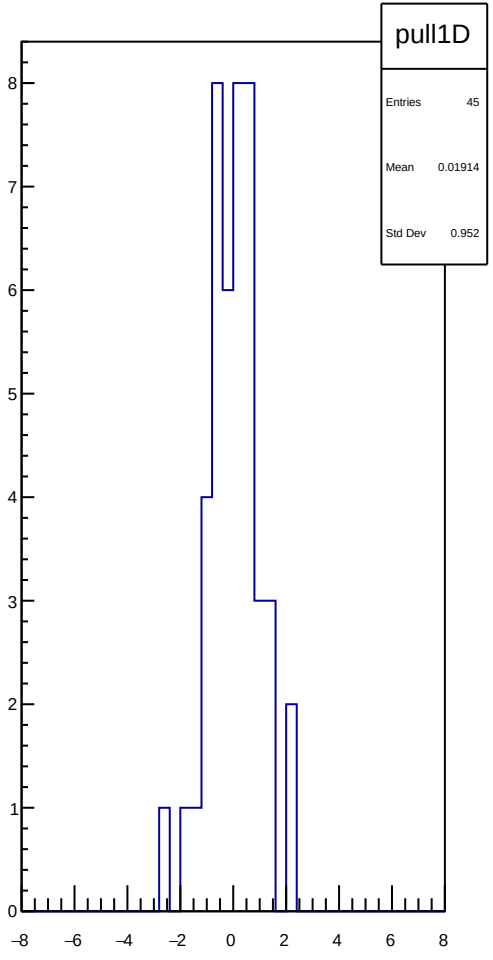

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 40.97 / 44
p0 −1.831 ± 0.5275
pull
Entries 45
Mean −87.83
Std Dev 0

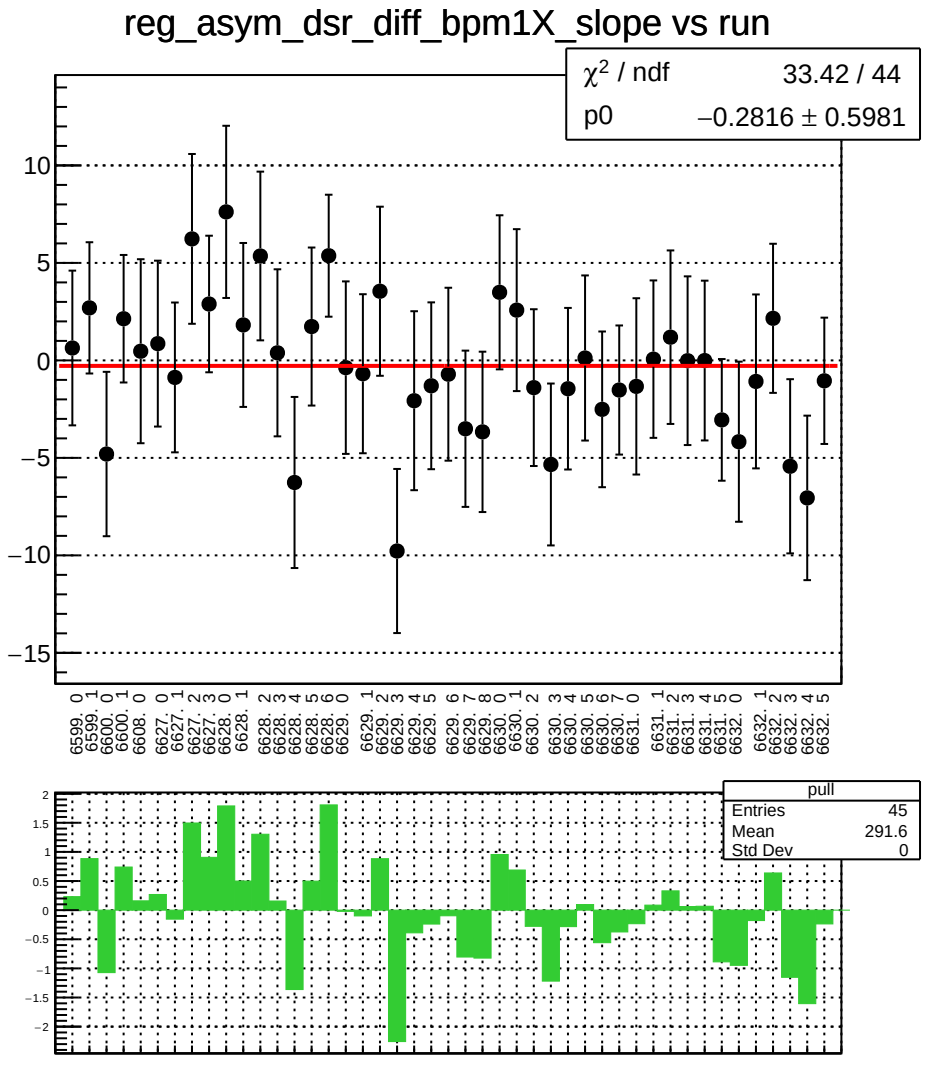

pull1D
Entries 45
Mean 0.01746
Std Dev 0.9541

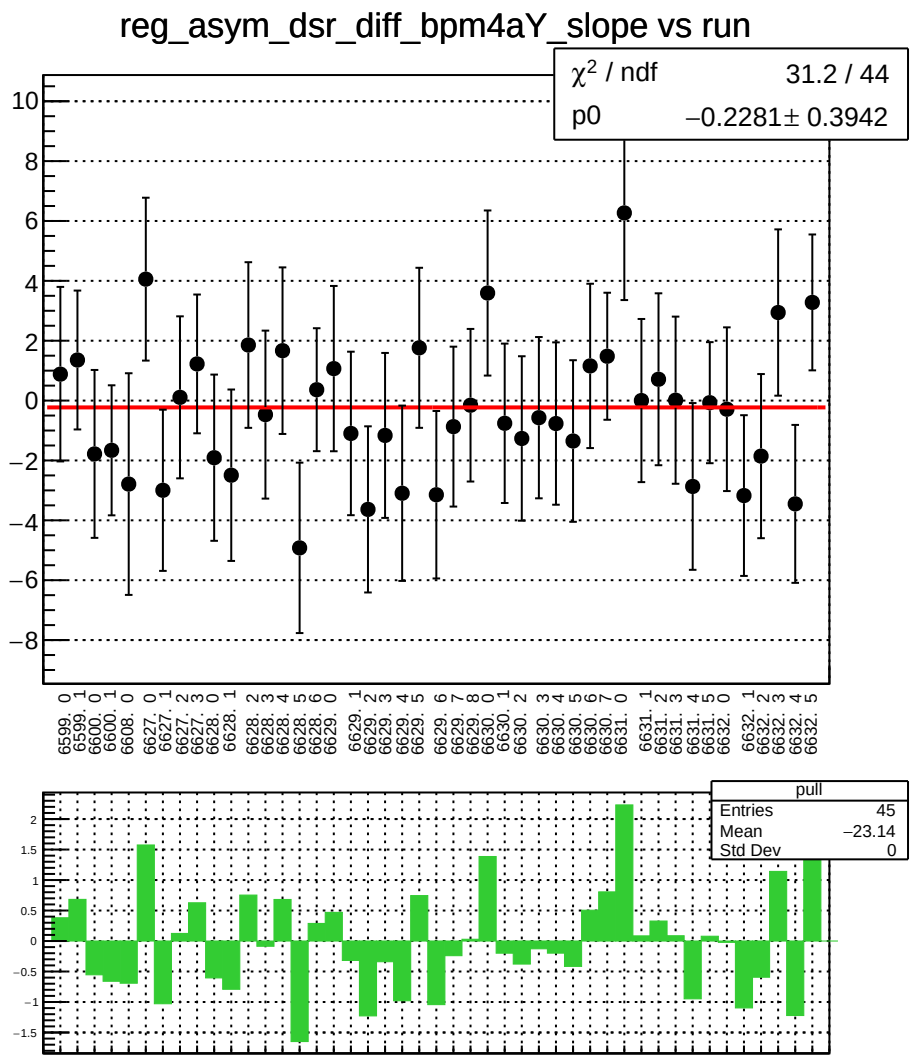

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 40.76 / 44
p0 0.2785 ± 0.4014
pull
Entries 45
Mean 65.62
Std Dev 0

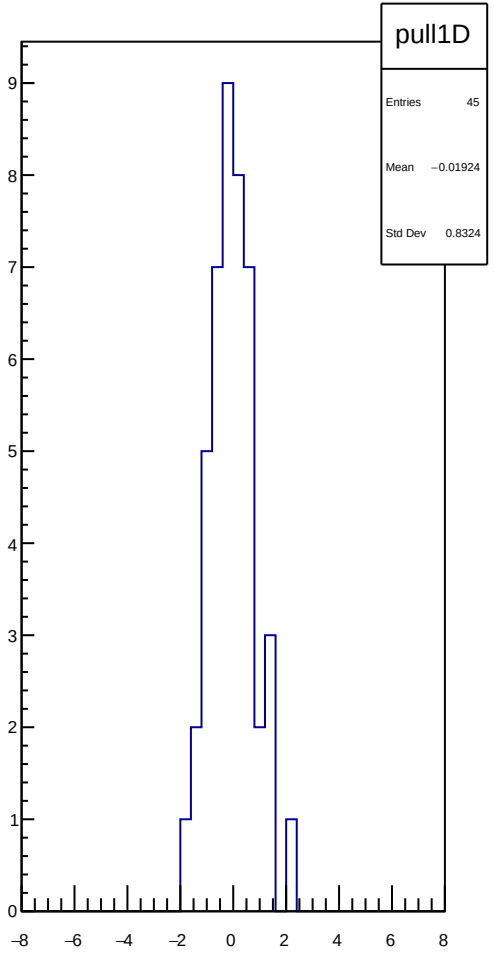

pull1D
Entries 45
Mean −0.01435
Std Dev 0.9517

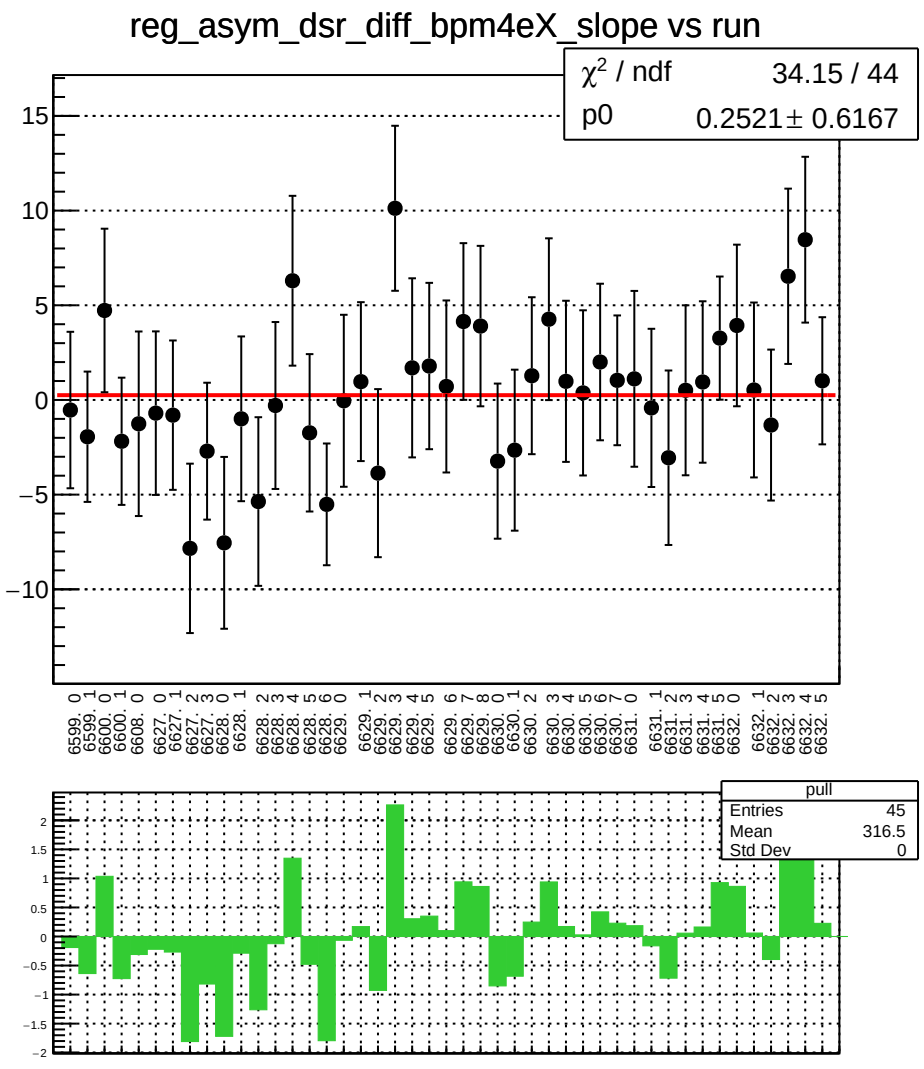

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 40.8 / 44
p0 0.02952 ± 0.02153
pull
Entries 45
Mean −38.87
Std Dev 0

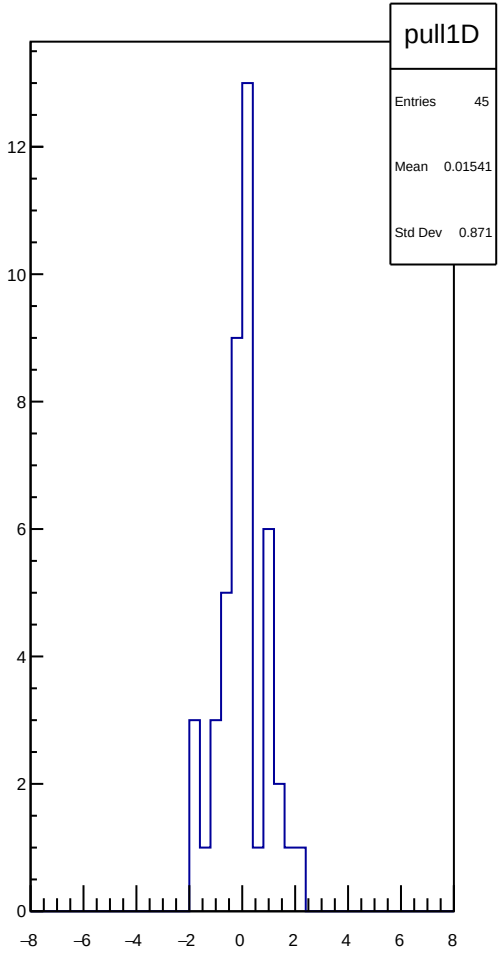

pull1D
Entries 45
Mean 0.01914
Std Dev 0.952

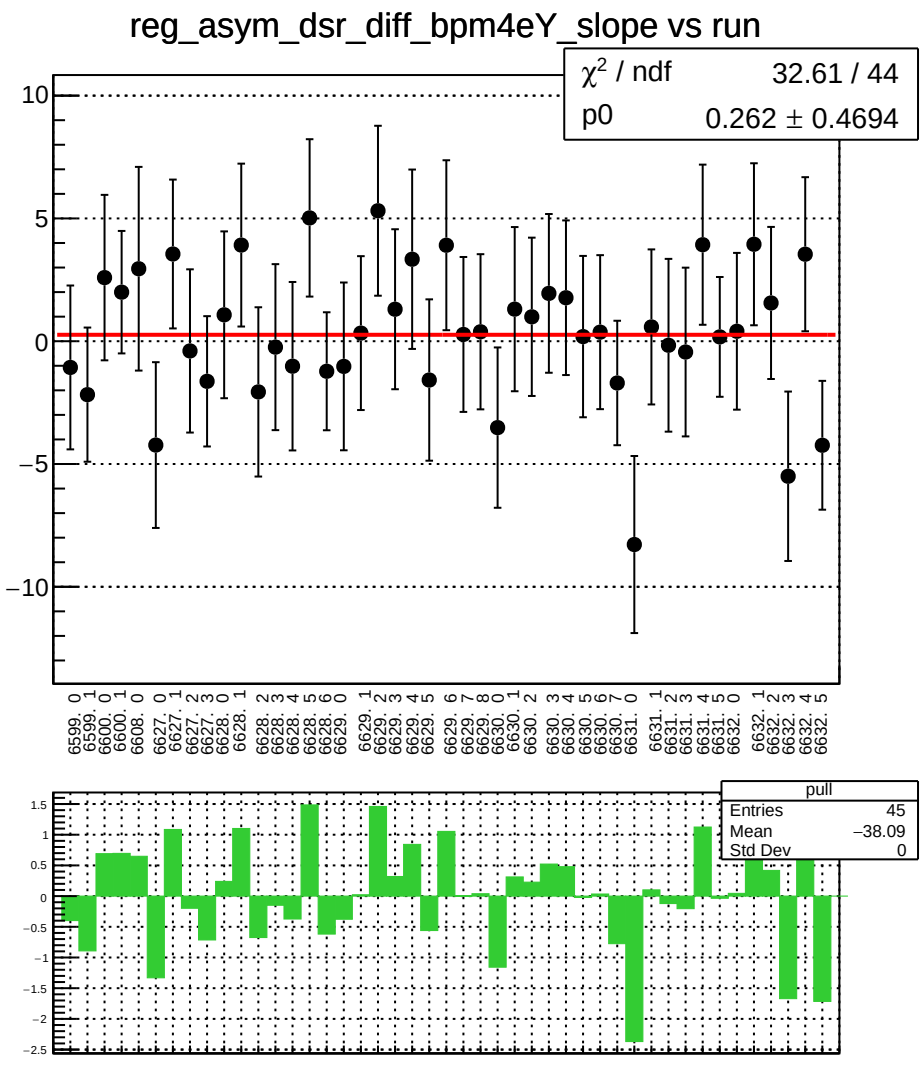

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 33.42 / 44
p0 −0.2816 ± 0.5981
10
5
0
−5
−10
−15
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 291.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01612
Std Dev 0.8617
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

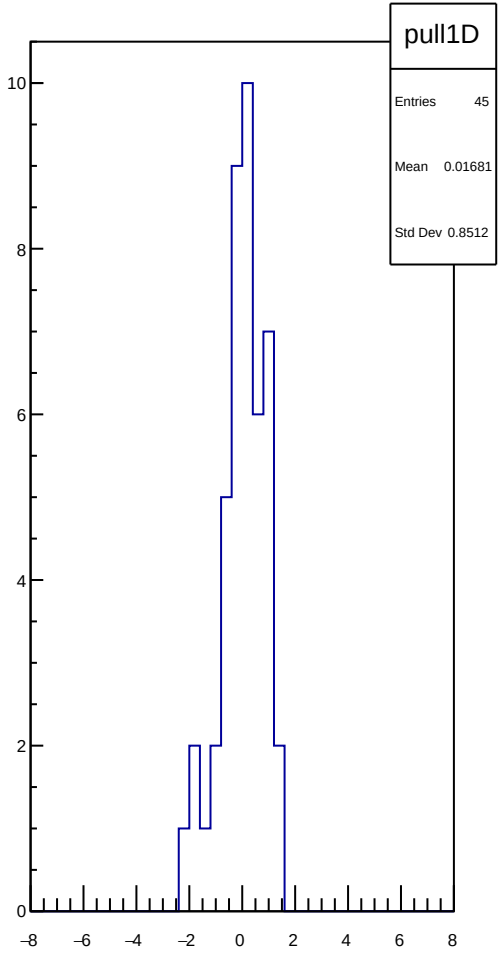

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 31.2 / 44
p0 −0.2281± 0.3942
pull
Entries 45
Mean −23.14
Std Dev 0

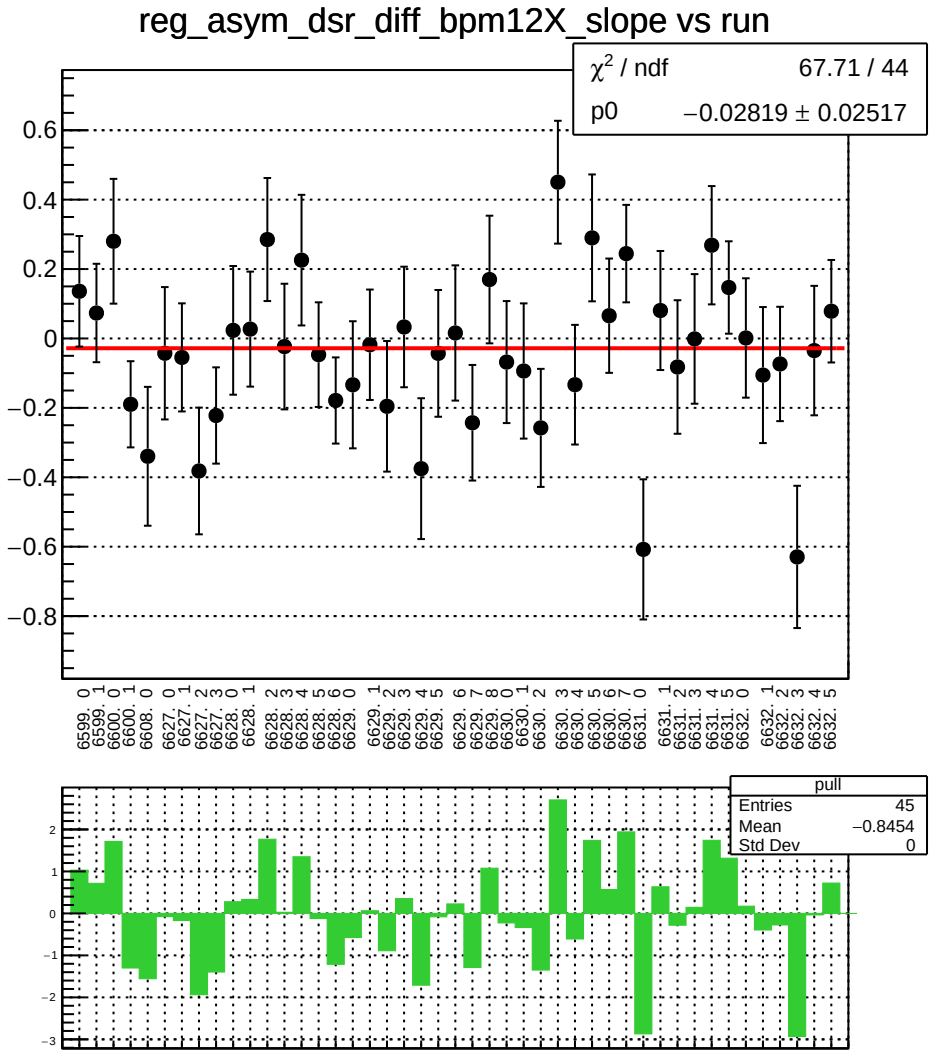

pull1D
Entries 45
Mean −0.01924
Std Dev 0.8324

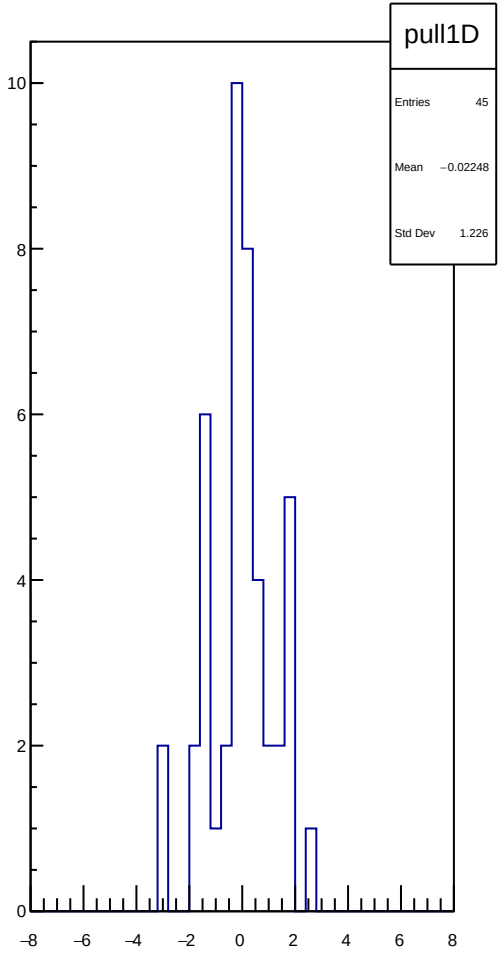

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 34.15 / 44
p0 0.2521 ± 0.6167
15
10
5
0
−5
−10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 316.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

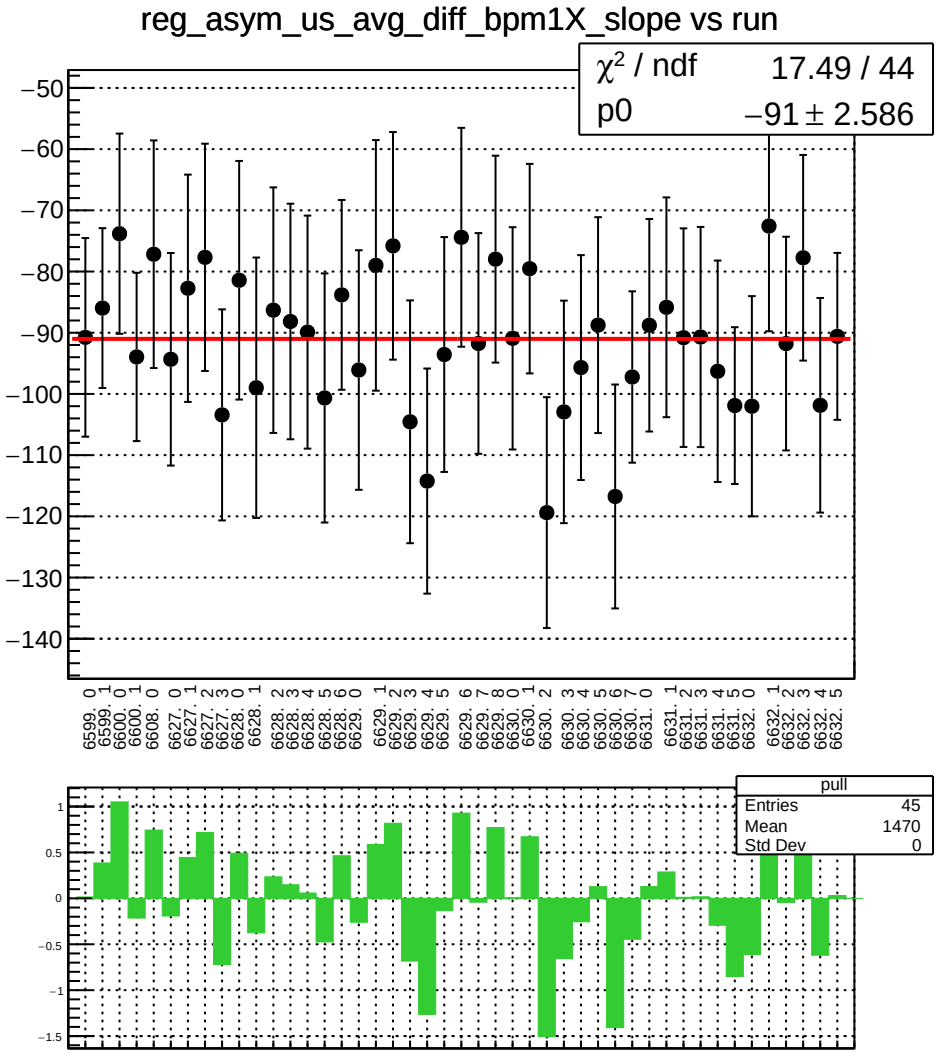

pull1D
Entries 45
Mean 0.01541
Std Dev 0.871
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

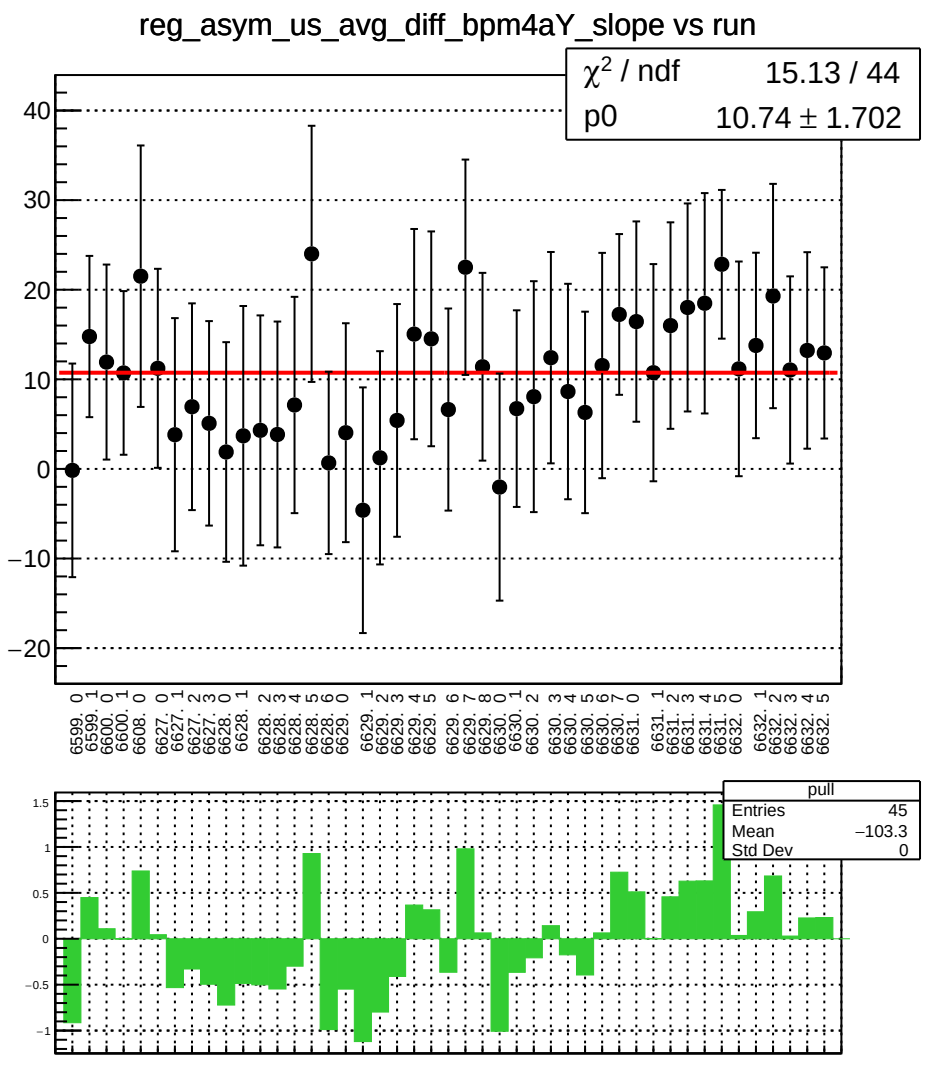

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 32.61 / 44
p0 0.262 ± 0.4694
pull
Entries 45
Mean −38.09
Std Dev 0

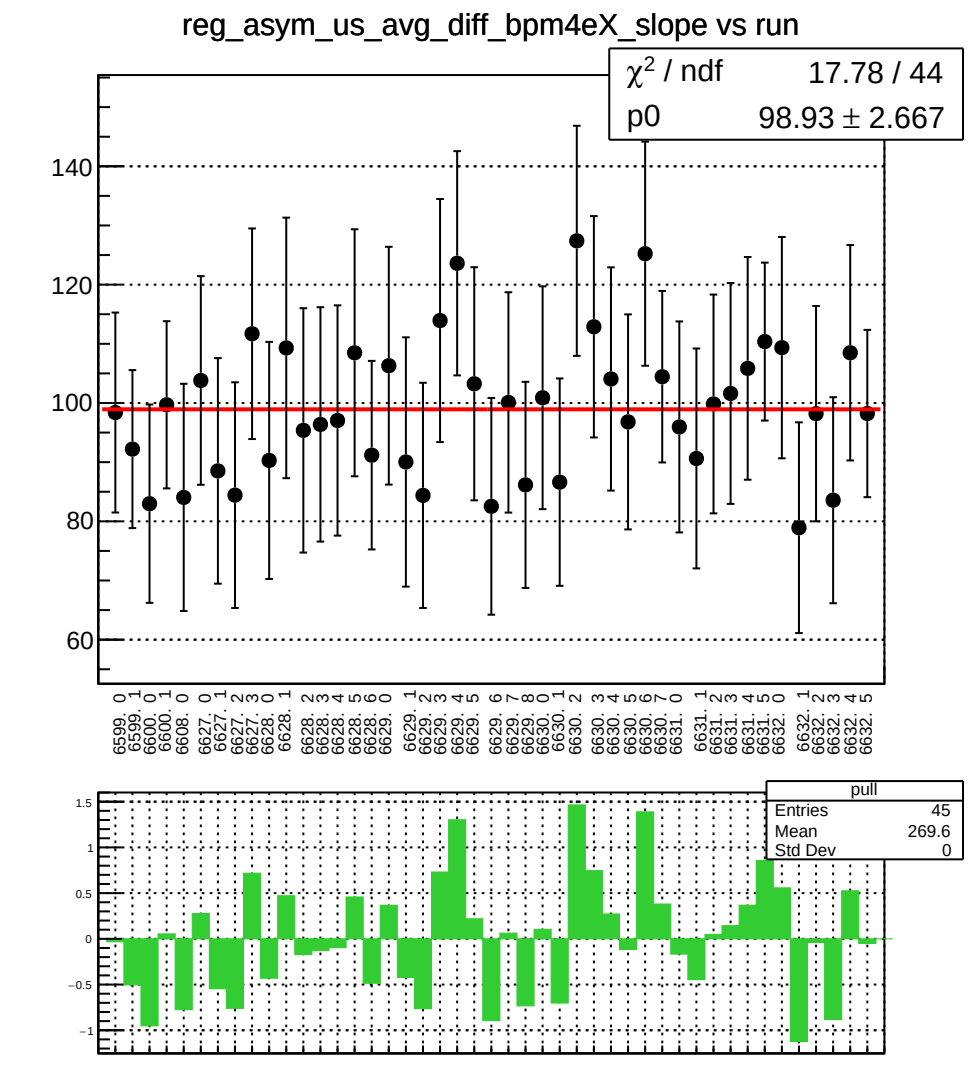

pull1D
Entries 45
Mean 0.01681
Std Dev 0.8512

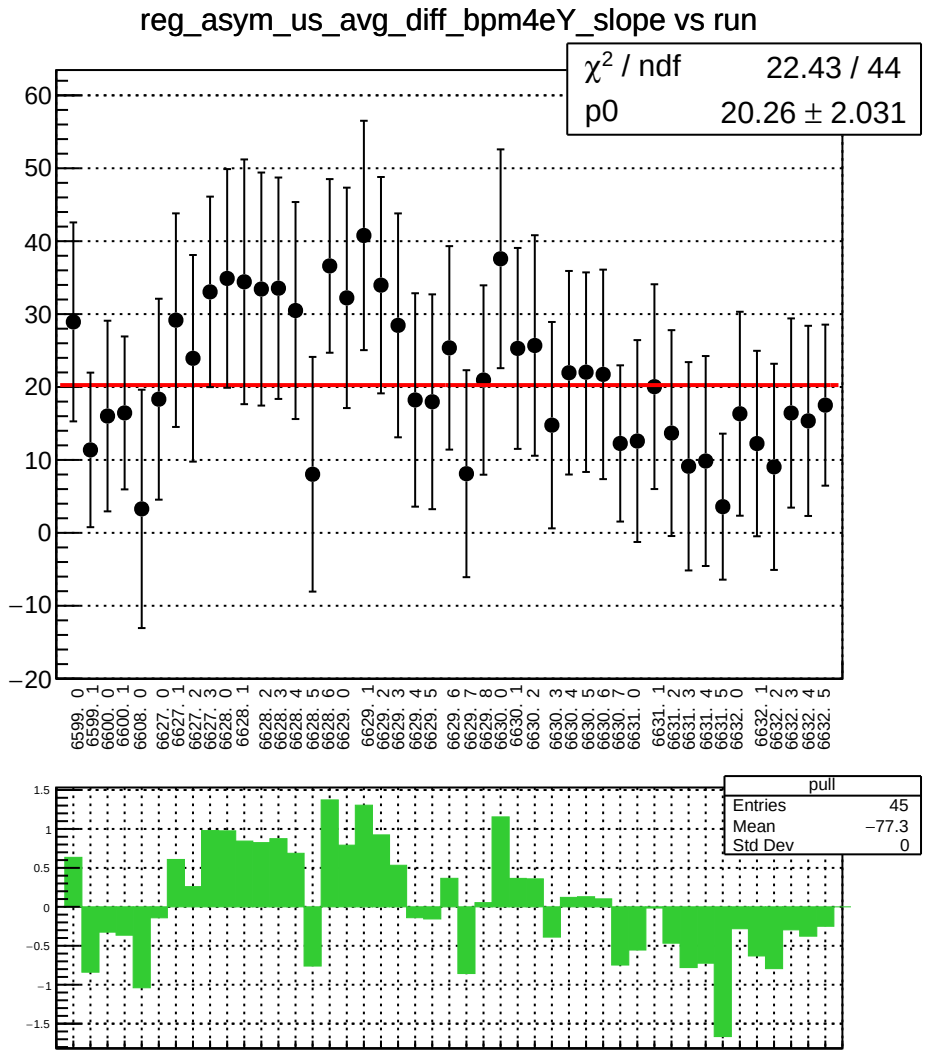

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 67.71 / 44
p0 −0.02819 ± 0.02517
pull
Entries 45
Mean −0.8454
Std Dev 0

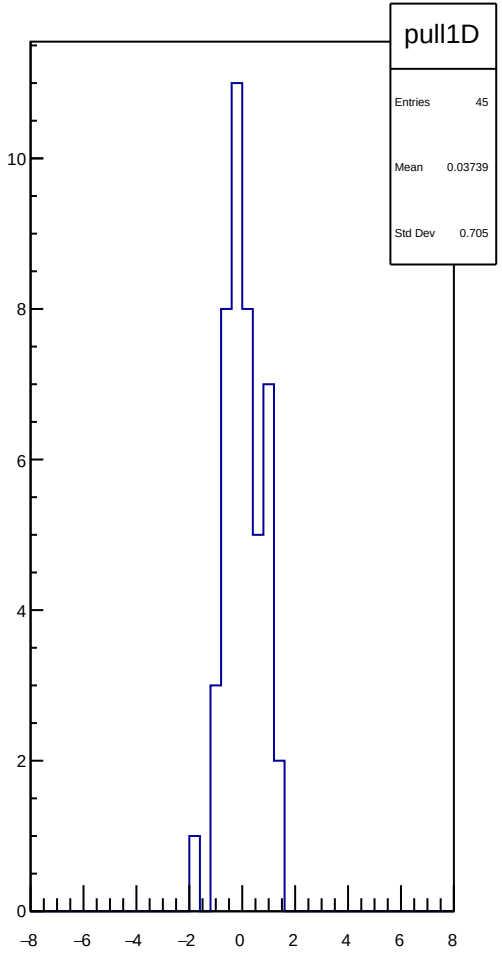

pull1D
Entries 45
Mean −0.02248
Std Dev 1.226

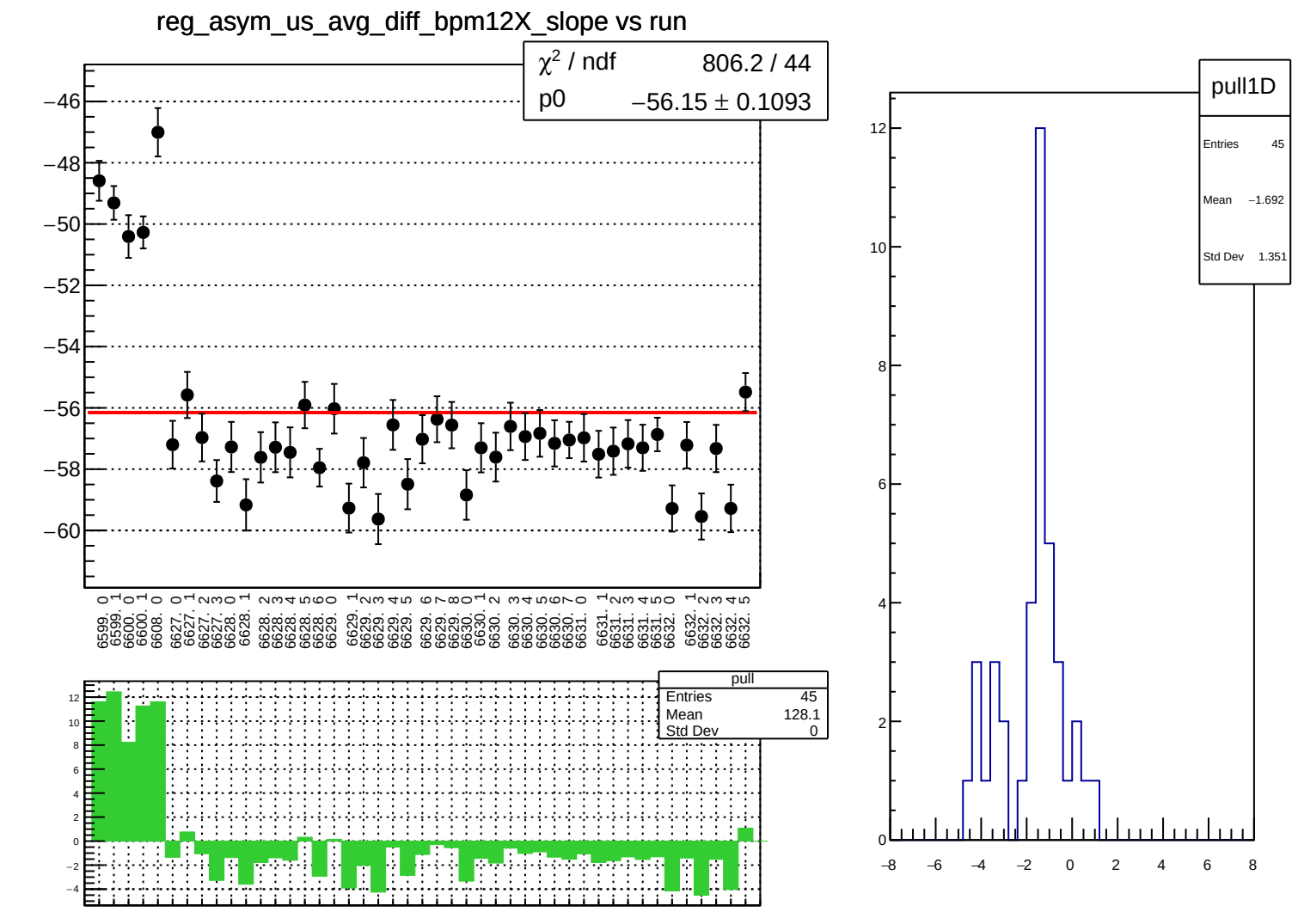

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 17.49 / 44
p0 −91 ± 2.586
pull
Entries 45
Mean 1470
Std Dev 0
pull1D
Entries 45
Mean −0.00116
Std Dev 0.6234

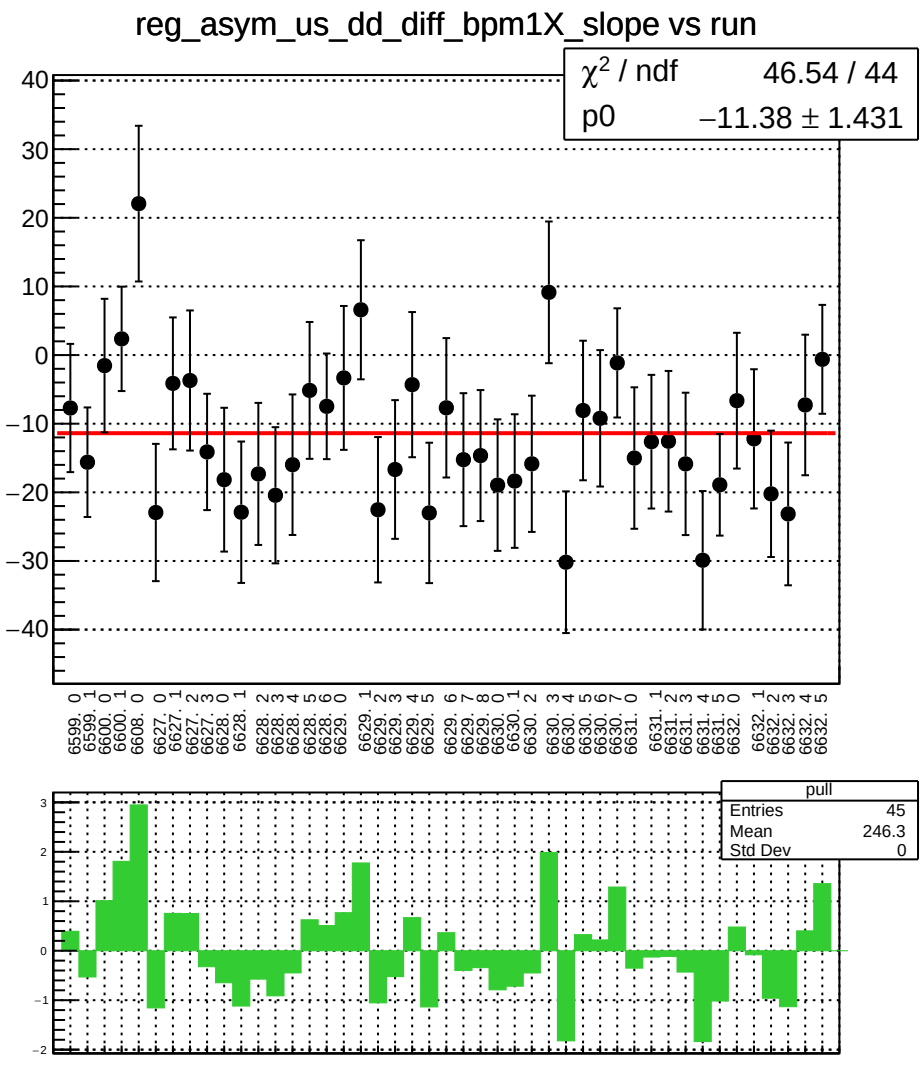

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.13 / 44
p0 10.74 ± 1.702
40
30
20
10
0
−10
−20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −103.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.02436
Std Dev 0.5793
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

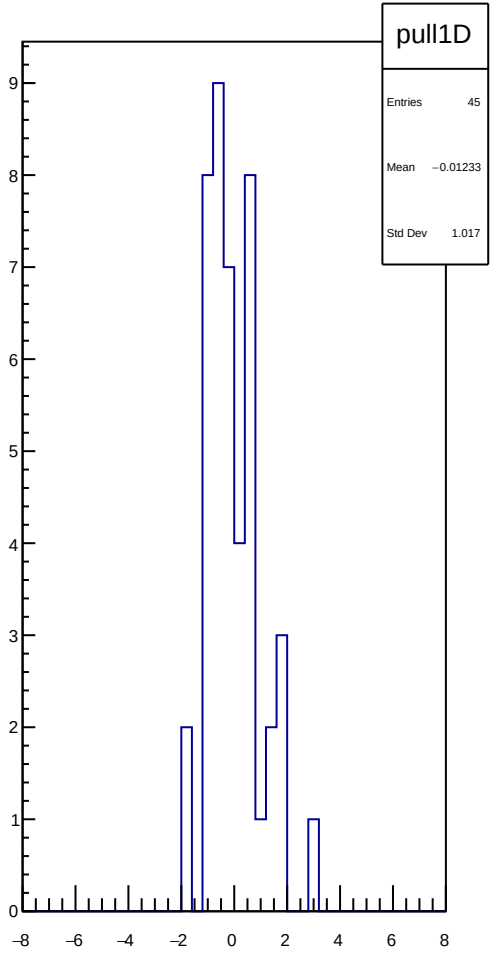

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.78 / 44
p0 98.93 ± 2.667
140
120
100
80
60
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 269.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean 0.006381
Std Dev 0.6285
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

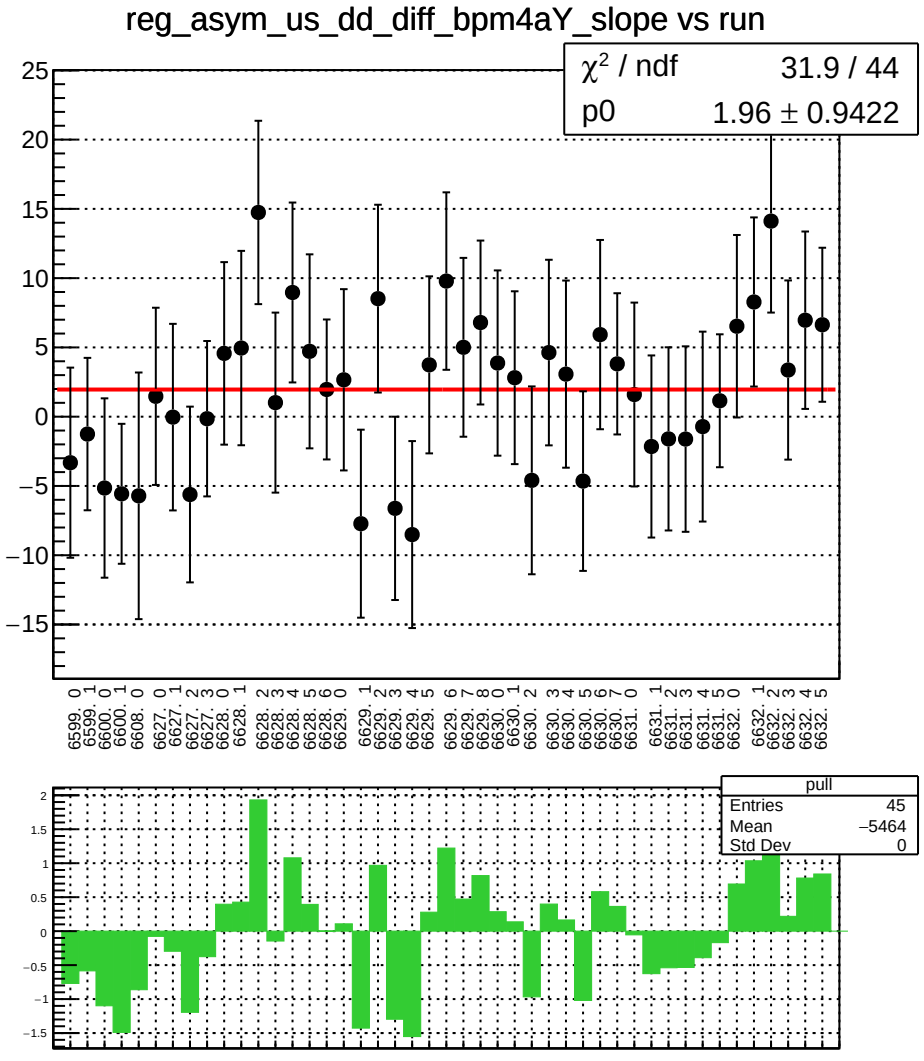

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 22.43 / 44
p0 20.26 ± 2.031
pull
Entries 45
Mean −77.3
Std Dev 0

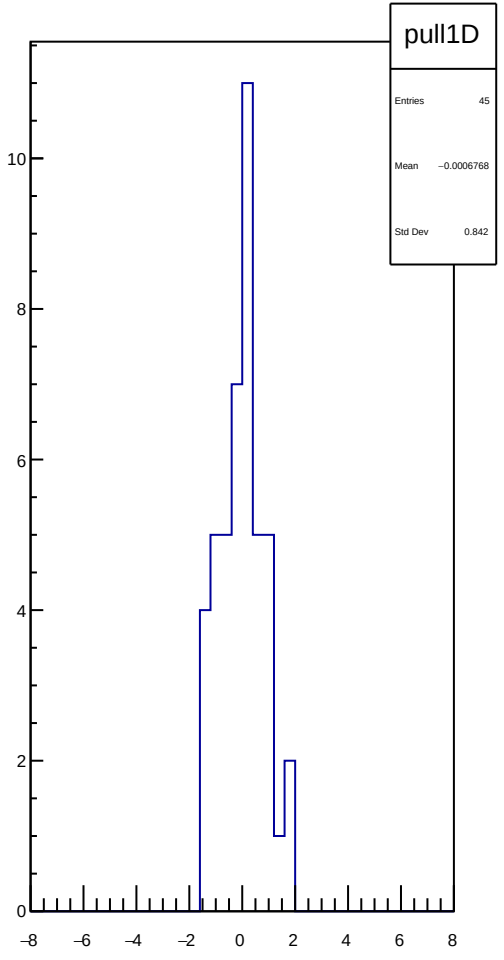

pull1D
Entries 45
Mean 0.03739
Std Dev 0.705

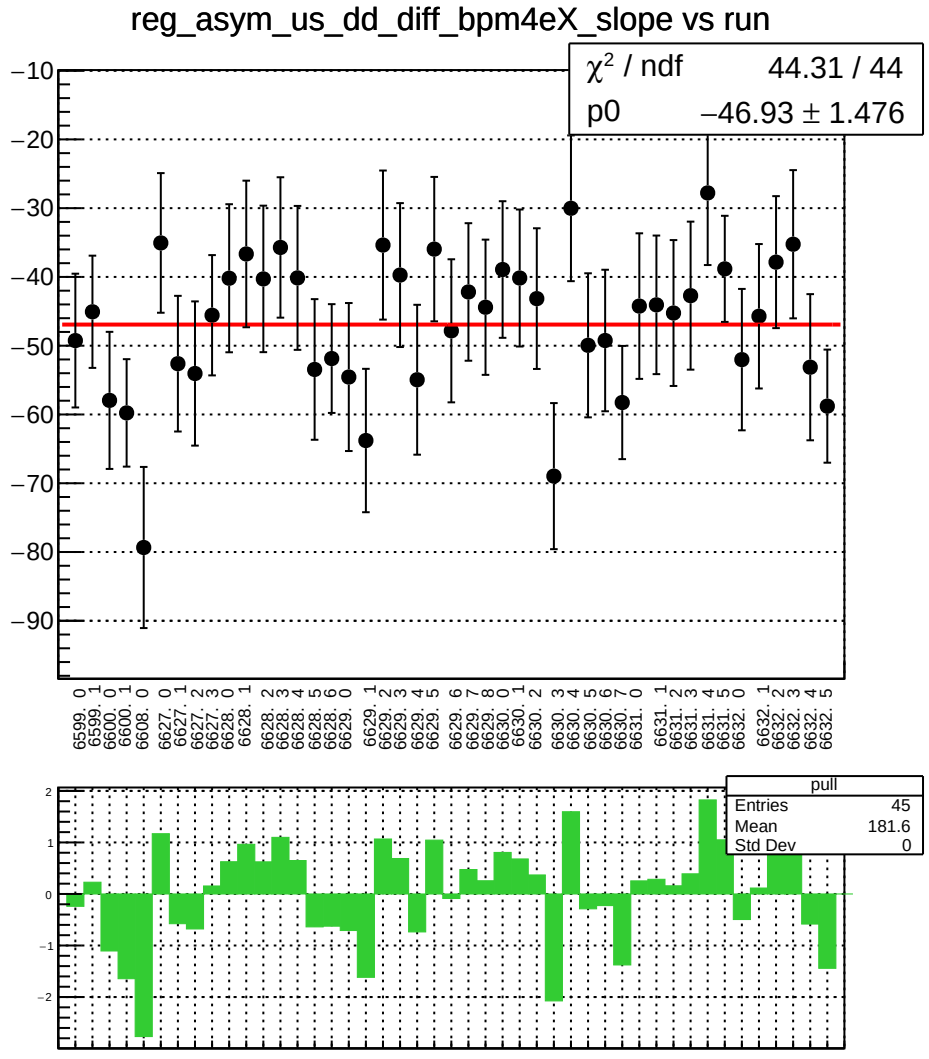

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 806.2 / 44
p0 −56.15 ± 0.1093
pull
Entries 45
Mean 128.1
Std Dev 0
pull1D
Entries 45
Mean −1.692
Std Dev 1.351

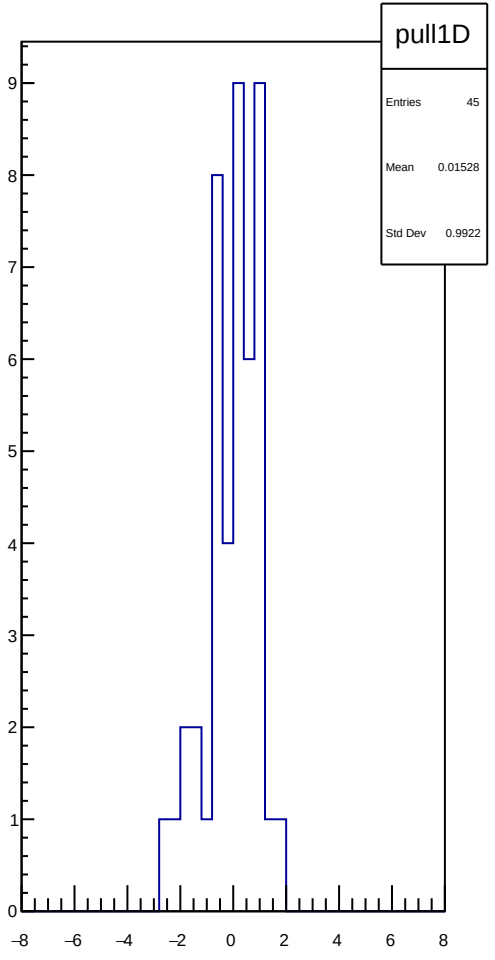

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 46.54 / 44
p0 −11.38 ± 1.431
pull
Entries 45
Mean 246.3
Std Dev 0

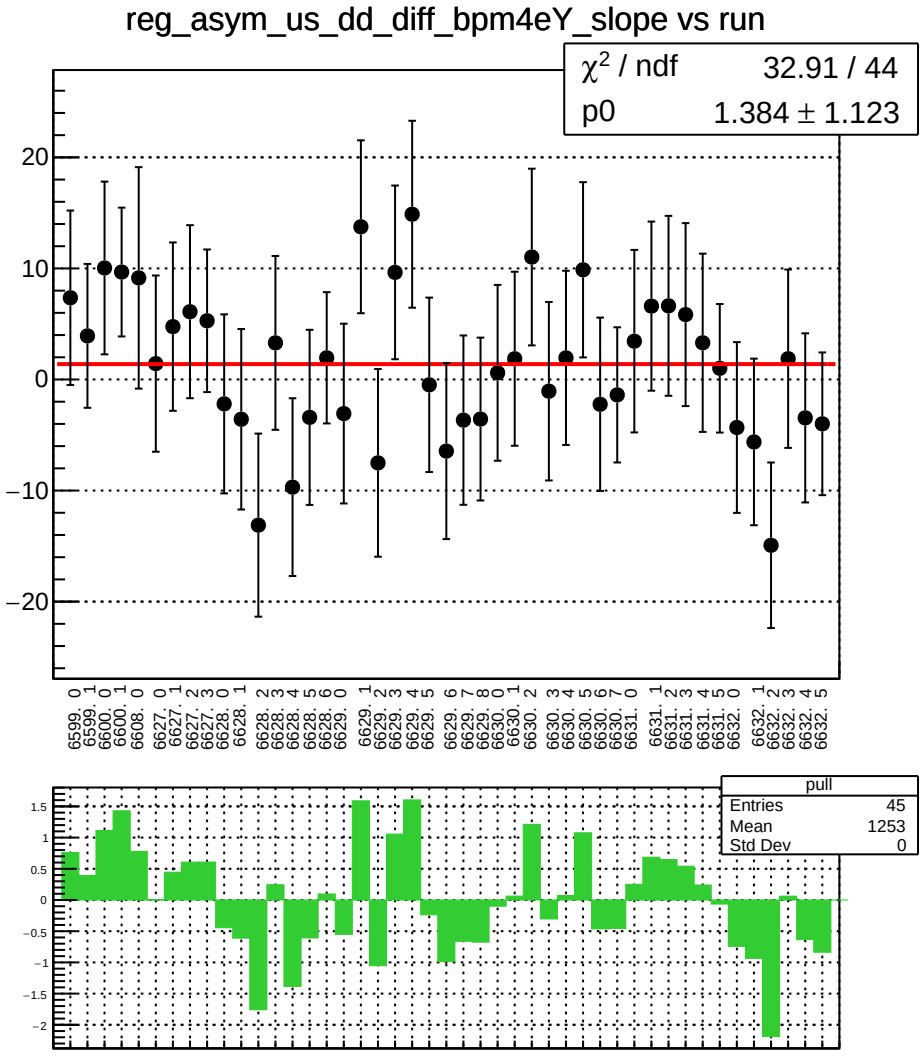

pull1D
Entries 45
Mean −0.01233
Std Dev 1.017

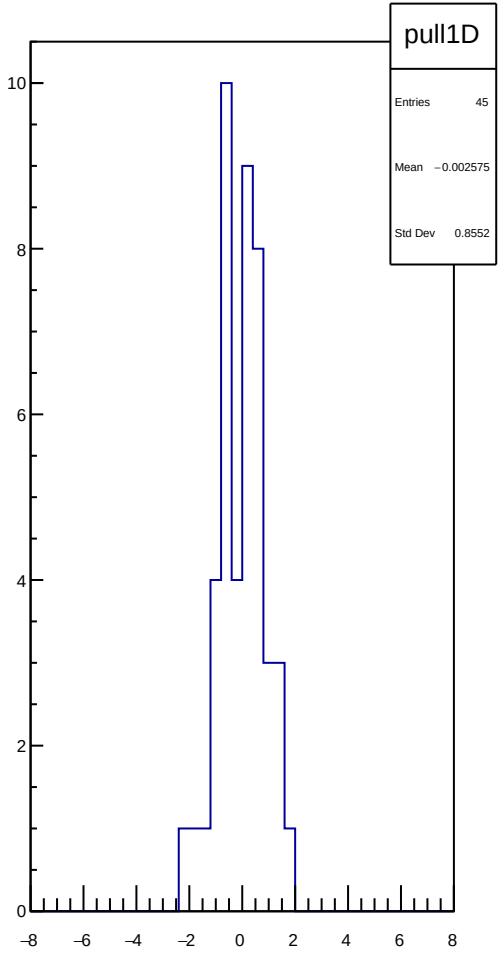

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 31.9 / 44
p0 1.96 ± 0.9422
pull
Entries 45
Mean −5464
Std Dev 0

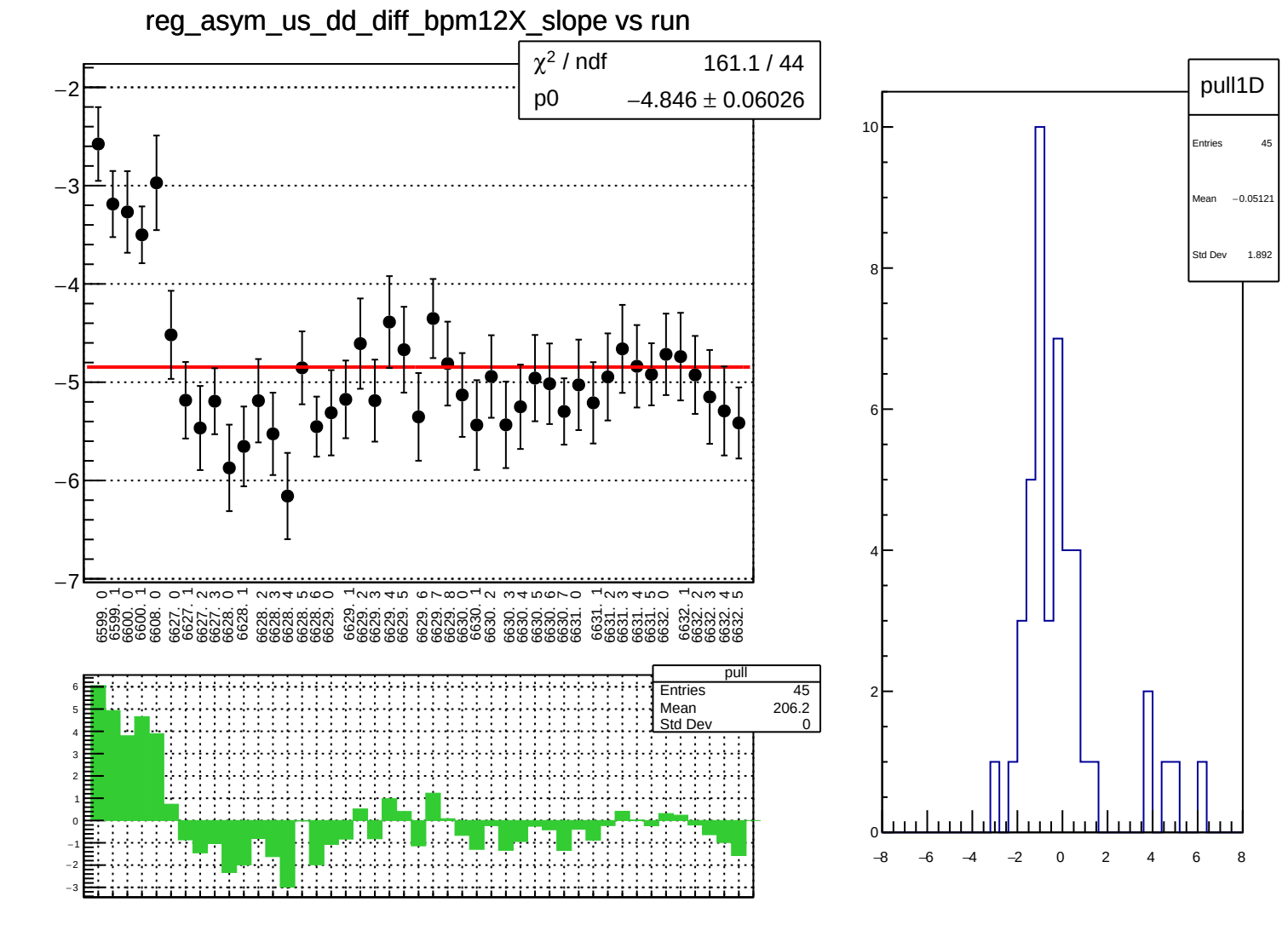

pull1D
Entries 45
Mean −0.0006768
Std Dev 0.842

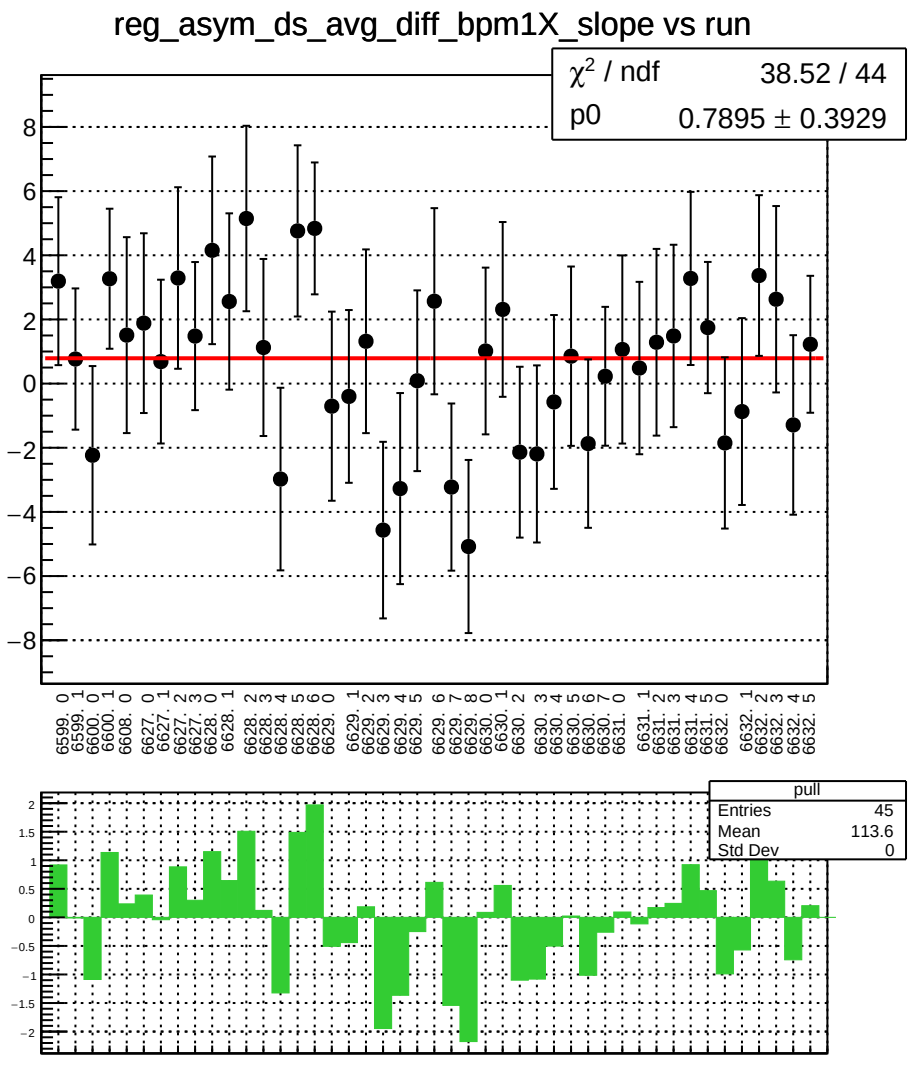

reg_asym_us_dd_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 44.31 / 44
p0 −46.93 ± 1.476
pull
Entries 45
Mean 181.6
Std Dev 0

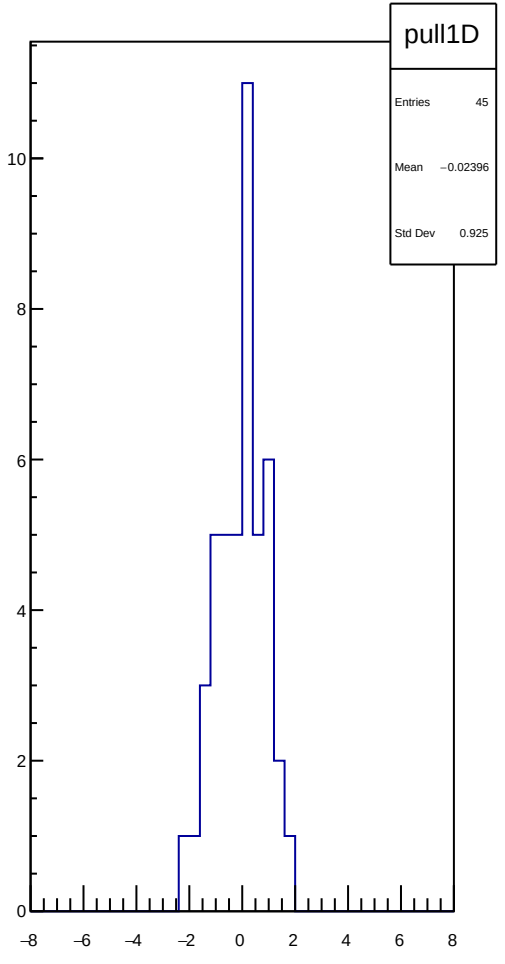

pull1D
Entries 45
Mean 0.01528
Std Dev 0.9922

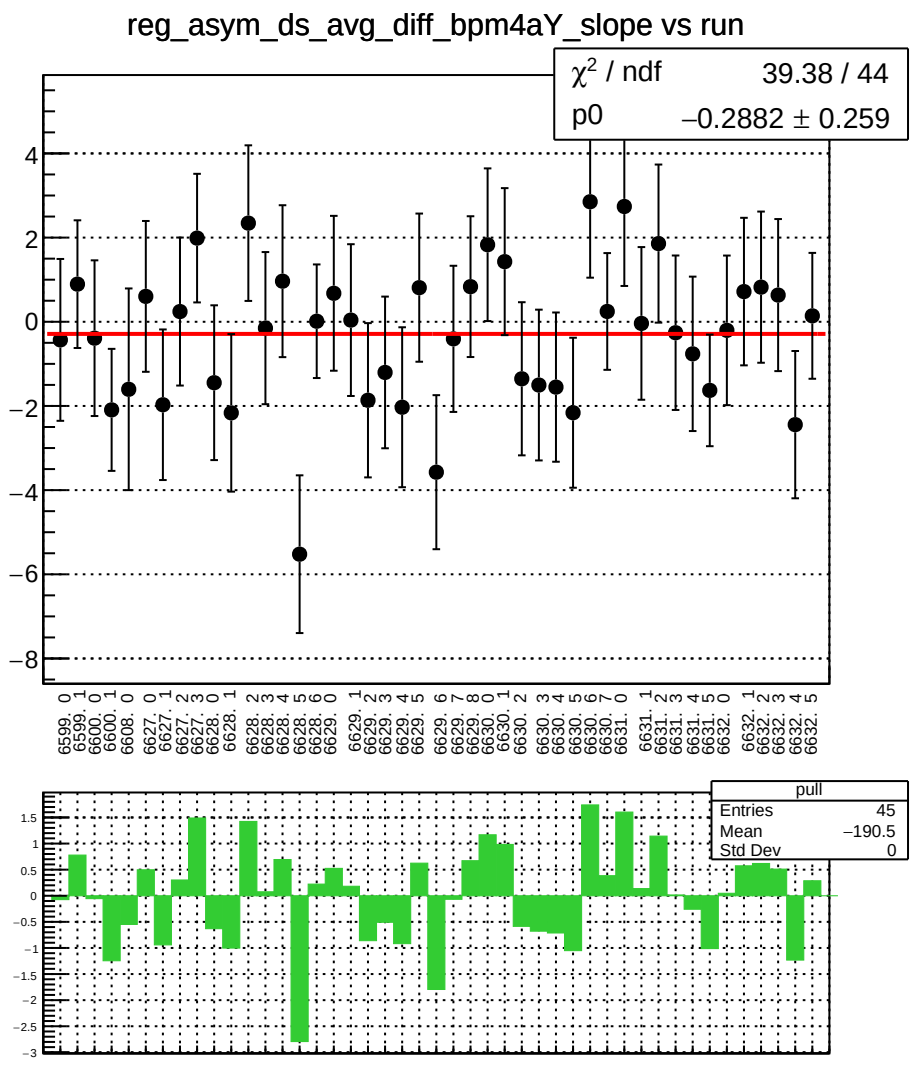

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 32.91 / 44
p0 1.384 ± 1.123
pull
Entries 45
Mean 1253
Std Dev 0

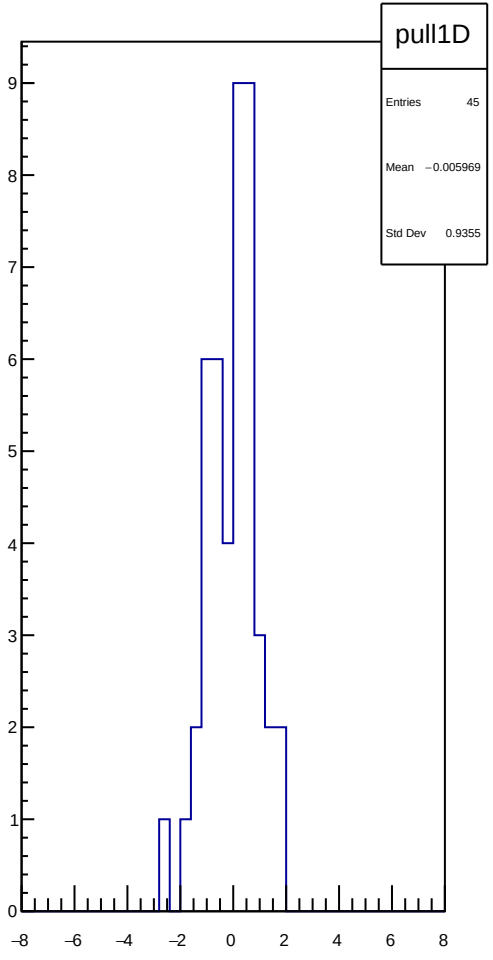

pull1D
Entries 45
Mean −0.002575
Std Dev 0.8552

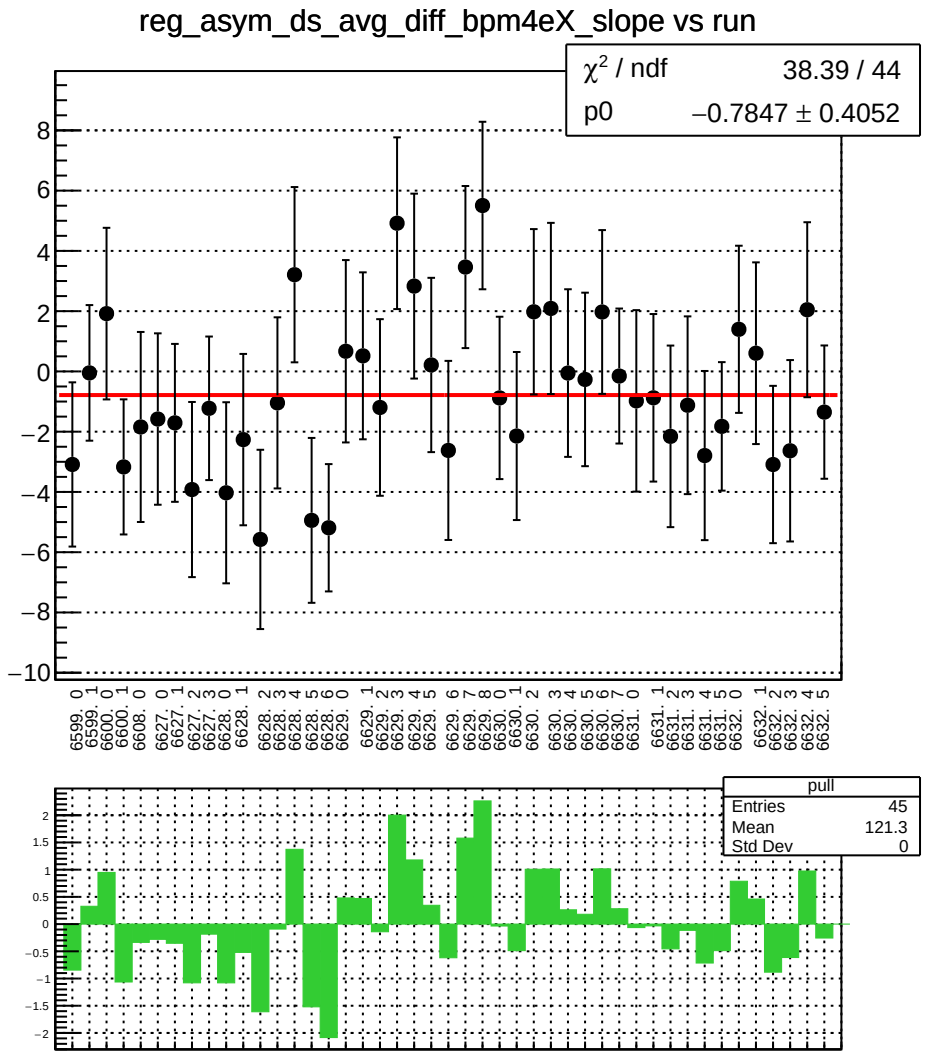

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 161.1 / 44
p0 −4.846 ± 0.06026
pull
Entries 45
Mean 206.2
Std Dev 0
pull1D
Entries 45
Mean −0.05121
Std Dev 1.892

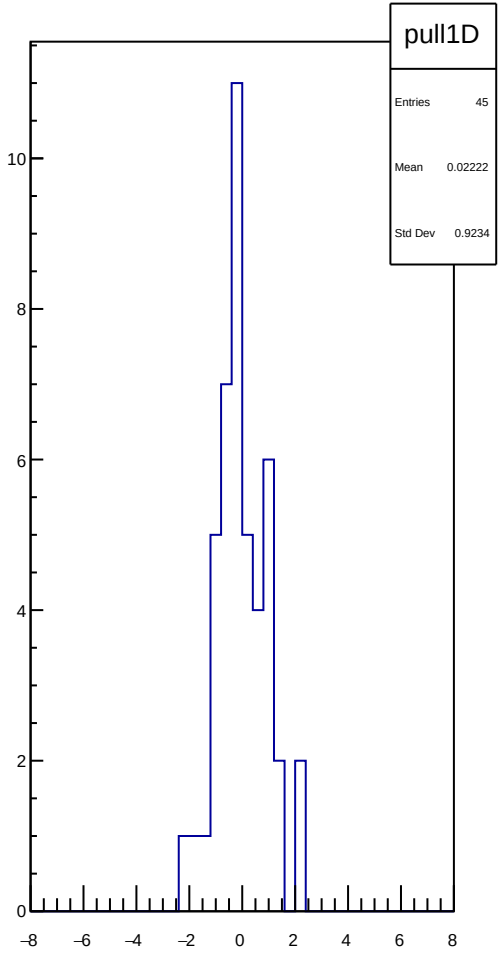

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 38.52 / 44
p0 0.7895 ± 0.3929
pull
Entries 45
Mean 113.6
Std Dev 0

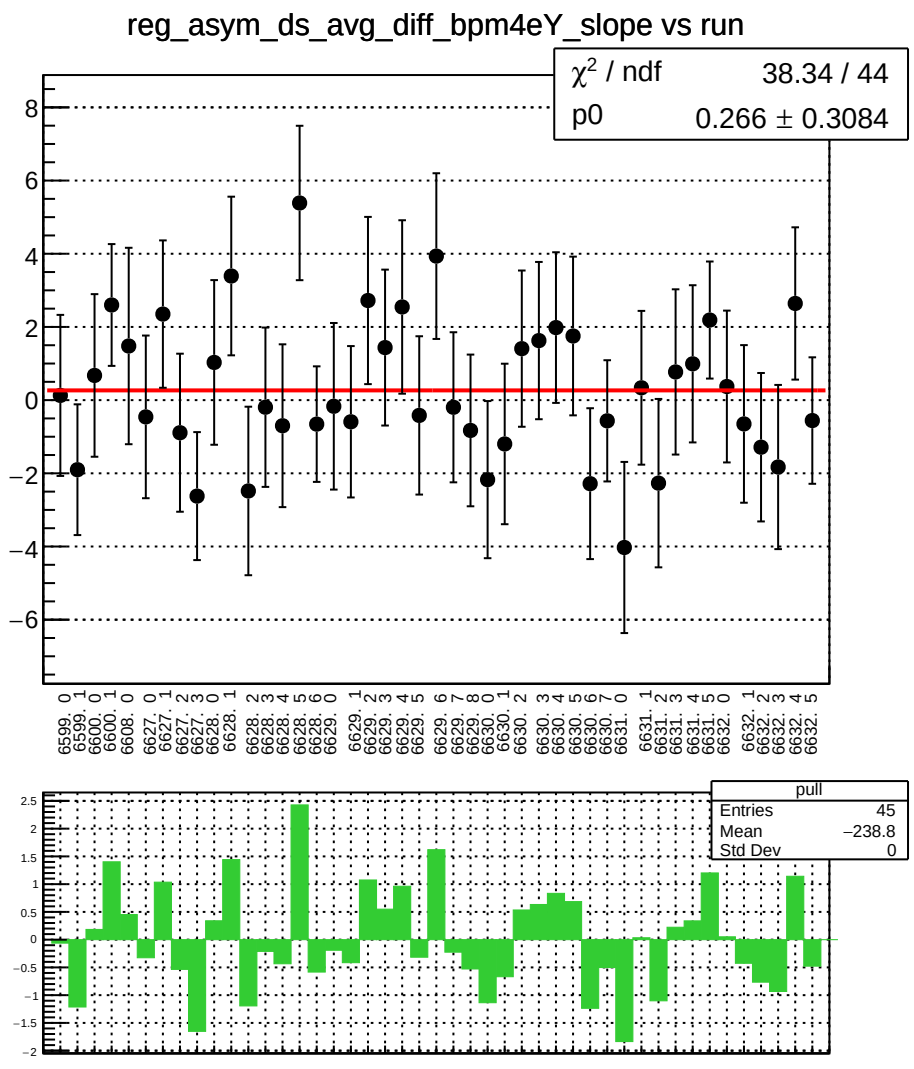

pull1D
Entries 45
Mean −0.02396
Std Dev 0.925

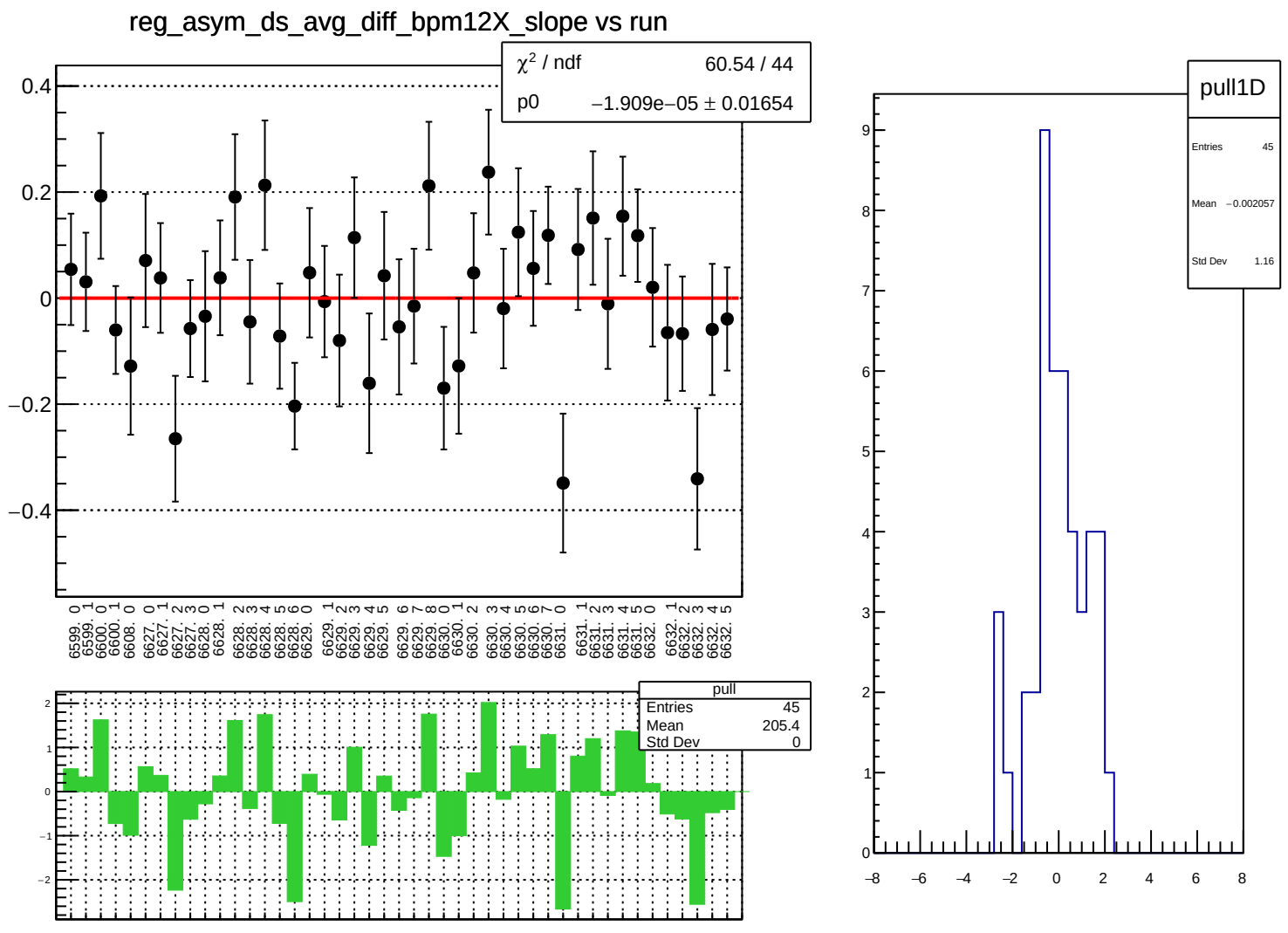

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 39.38 / 44
p0 −0.2882 ± 0.259
pull
Entries 45
Mean −190.5
Std Dev 0

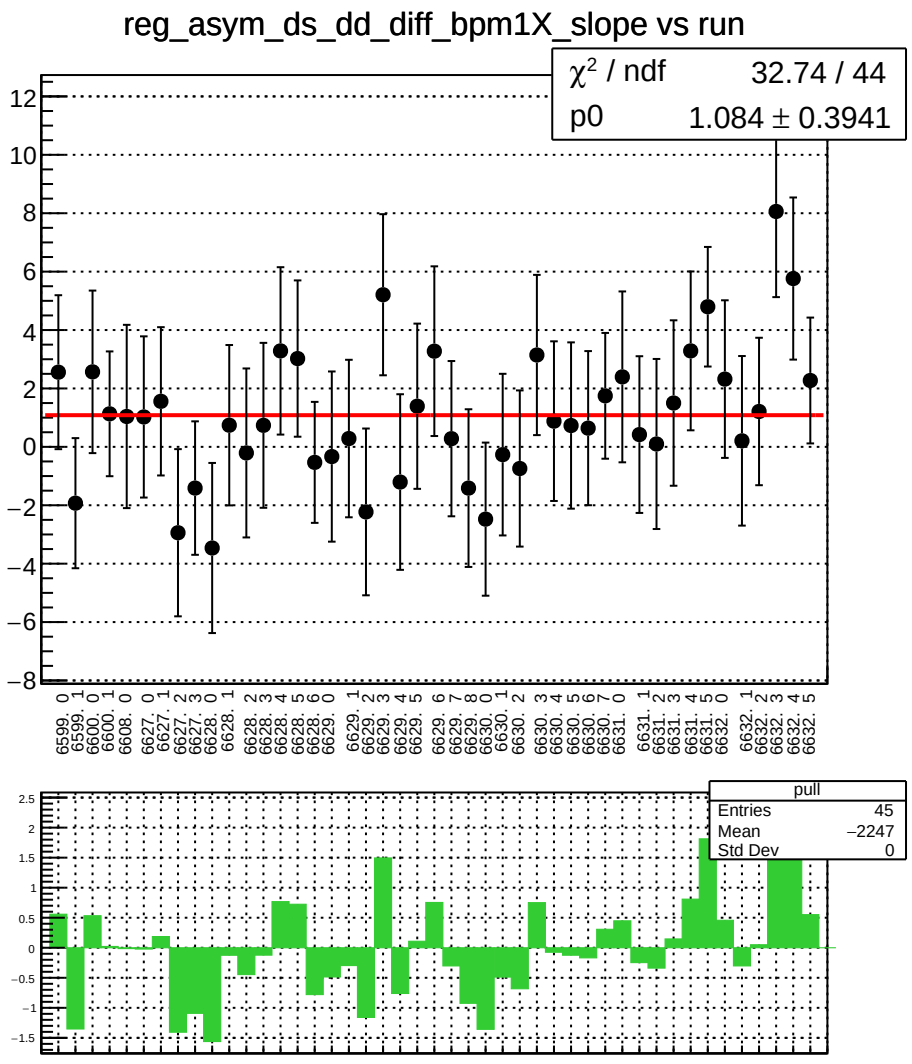

pull1D
Entries 45
Mean −0.005969
Std Dev 0.9355

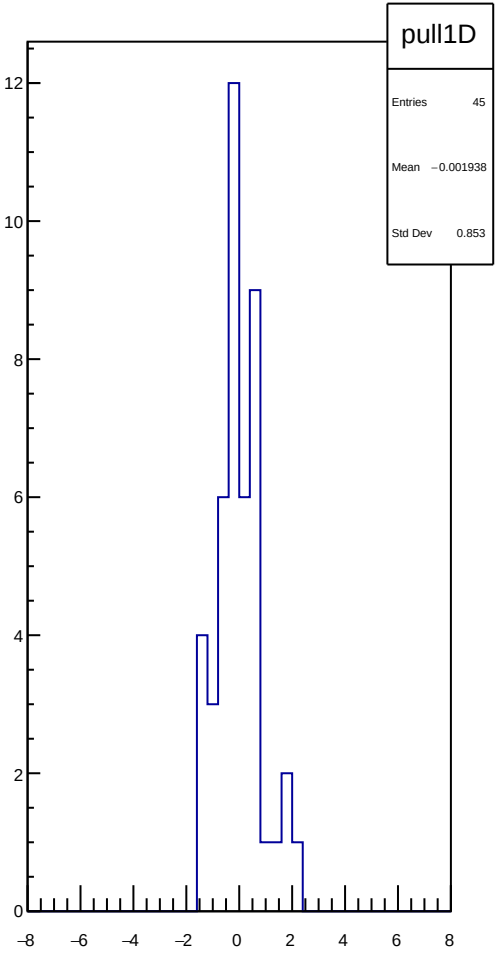

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 38.39 / 44
p0 −0.7847 ± 0.4052
pull
Entries 45
Mean 121.3
Std Dev 0

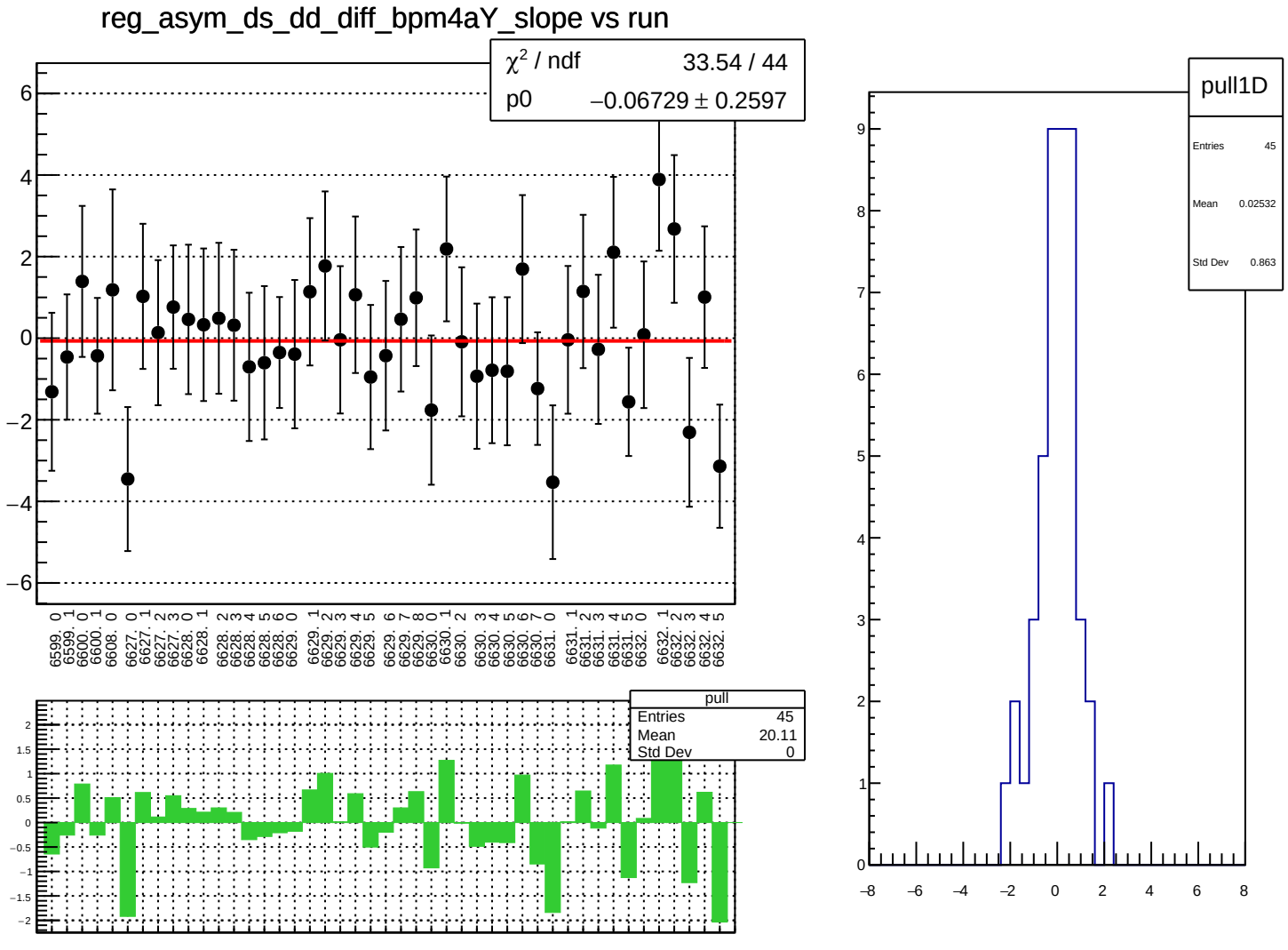

pull1D
Entries 45
Mean 0.02222
Std Dev 0.9234

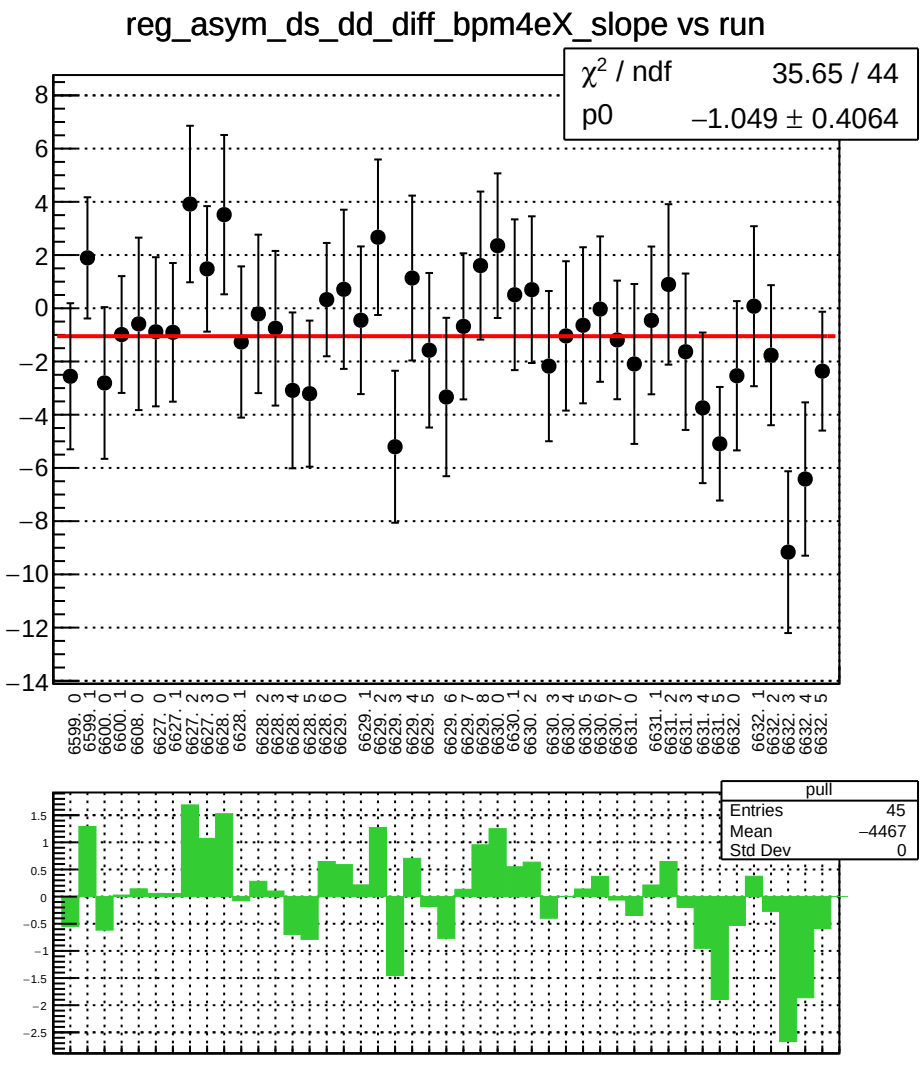

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 38.34 / 44
p0 0.266 ± 0.3084
pull
Entries 45
Mean −238.8
Std Dev 0
pull1D
Entries 45
Mean 0.004477
Std Dev 0.9231

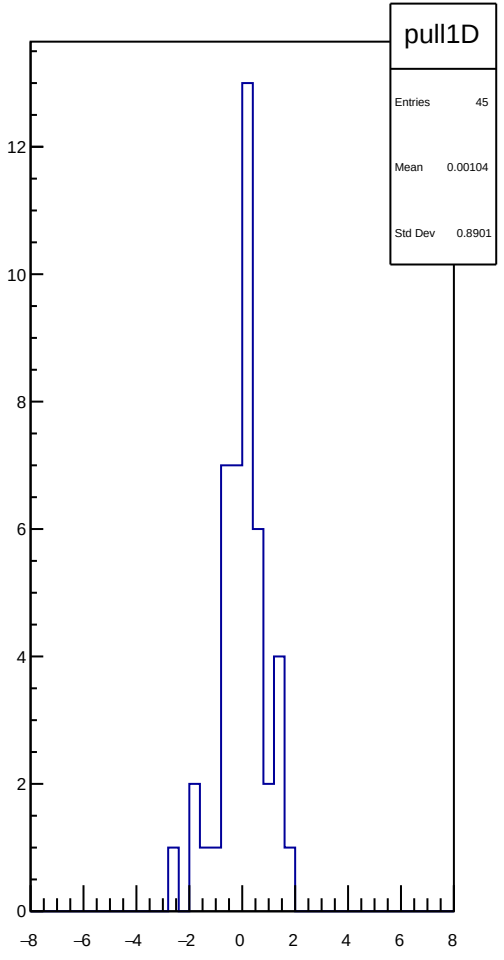

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 60.54 / 44
p0 −1.909e−05 ± 0.01654
0.4
0.2
0
−0.2
−0.4
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 205.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.002057
Std Dev 1.16
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

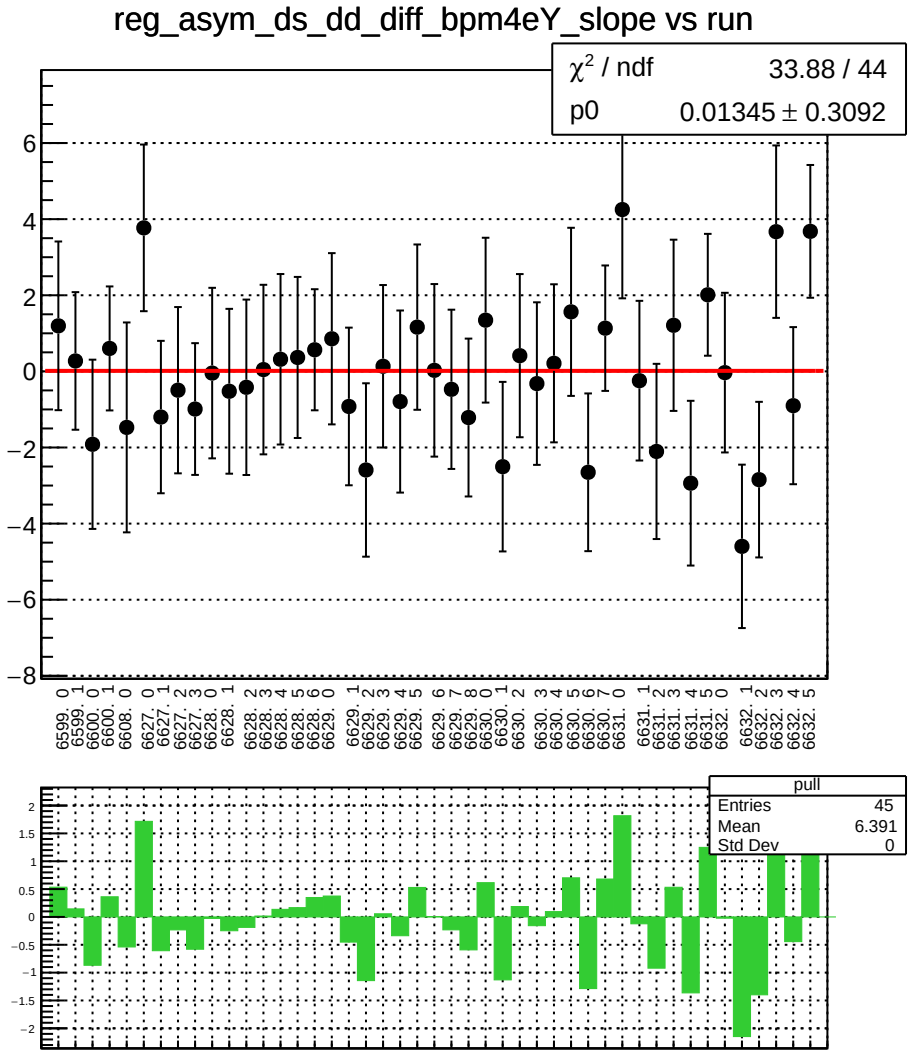

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 32.74 / 44
p0 1.084 ± 0.3941
pull
Entries 45
Mean −2247
Std Dev 0

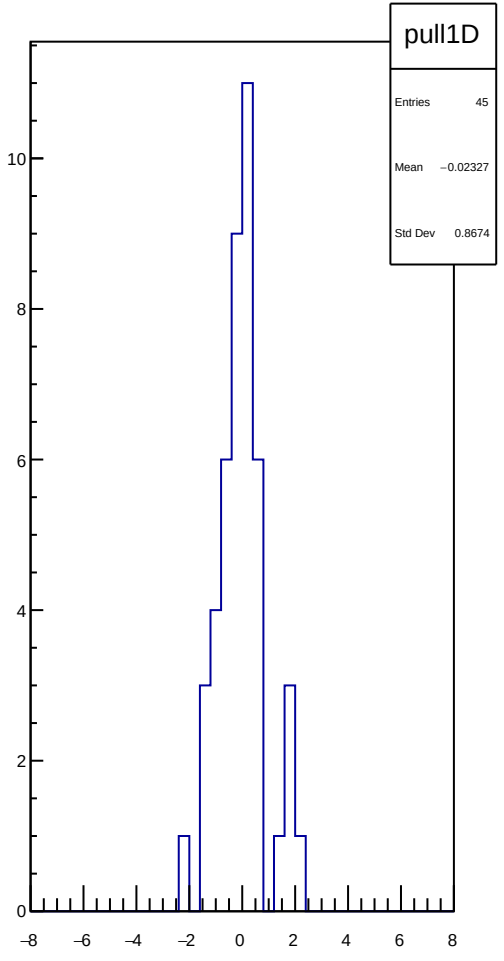

pull1D
Entries 45
Mean −0.001938
Std Dev 0.853

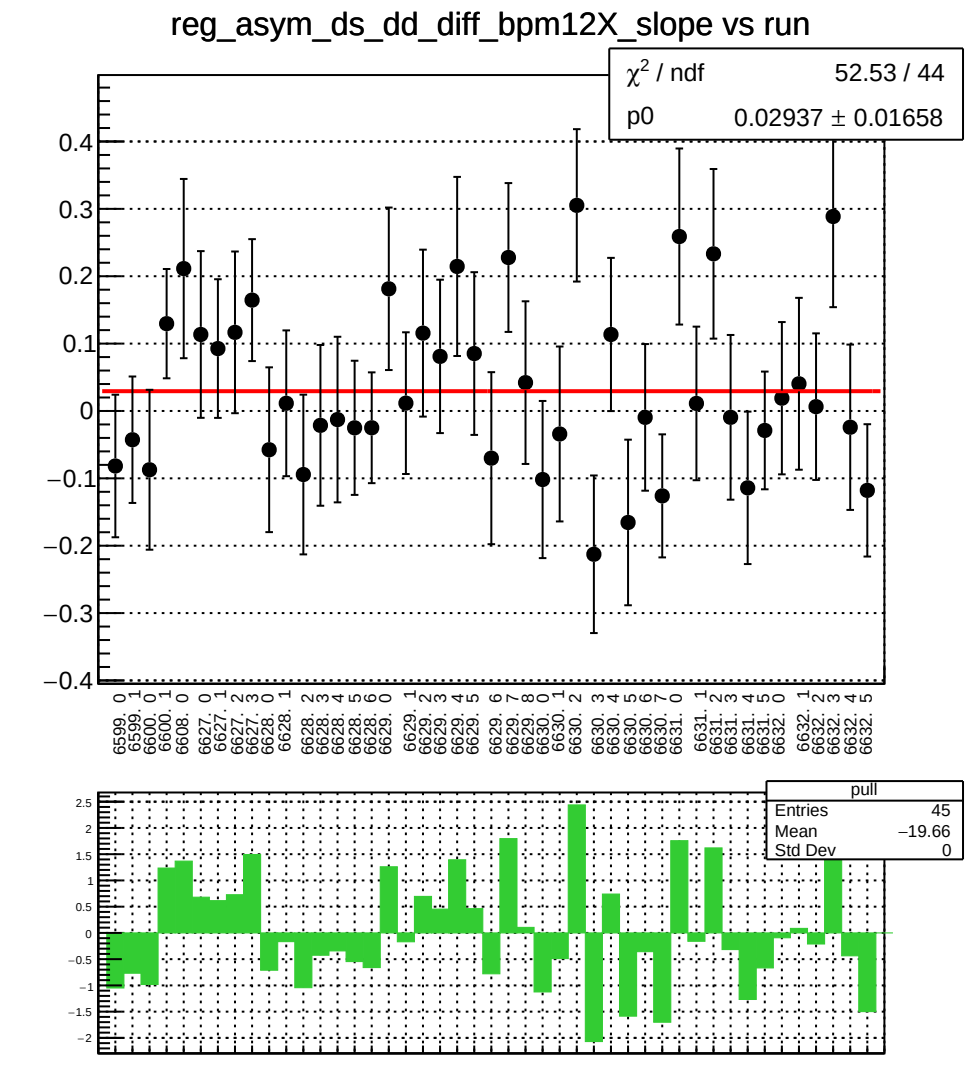

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 33.54 / 44
p0 −0.06729 ± 0.2597
pull
Entries 45
Mean 20.11
Std Dev 0
pull1D
Entries 45
Mean 0.02532
Std Dev 0.863

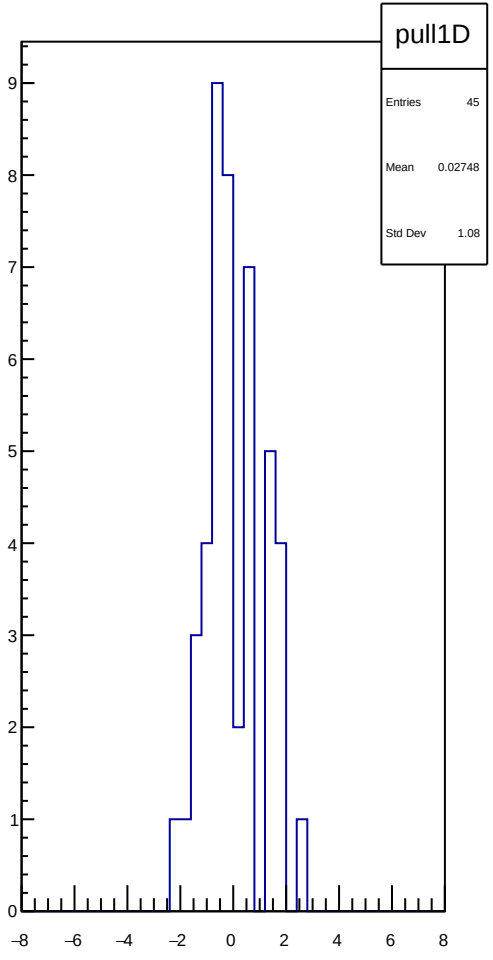

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 35.65 / 44
p0 −1.049 ± 0.4064
pull
Entries 45
Mean −4467
Std Dev 0

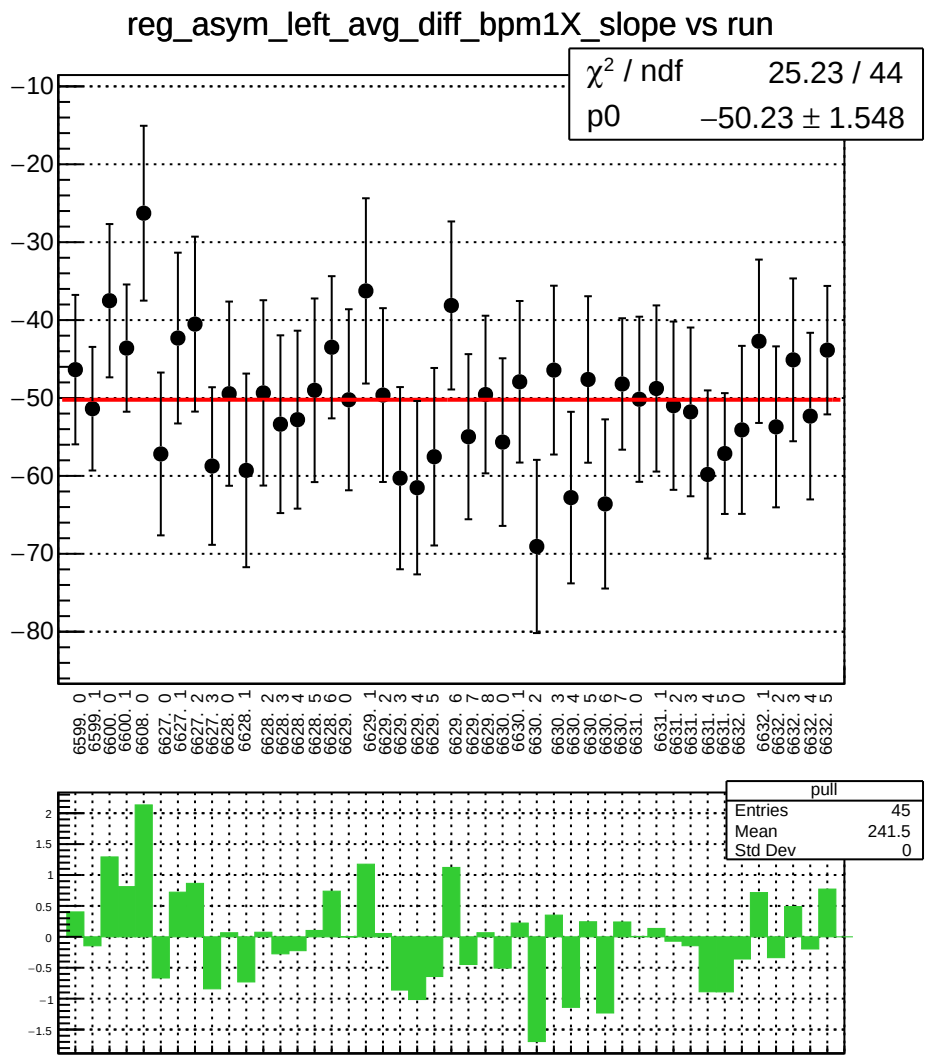

pull1D
Entries 45
Mean 0.00104
Std Dev 0.8901

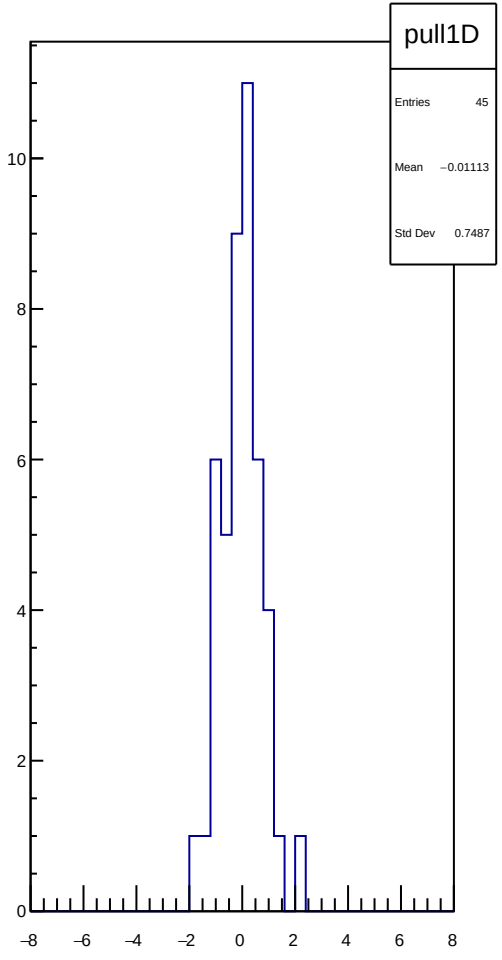

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 33.88 / 44
p0 0.01345 ± 0.3092
pull
Entries 45
Mean 6.391
Std Dev 0

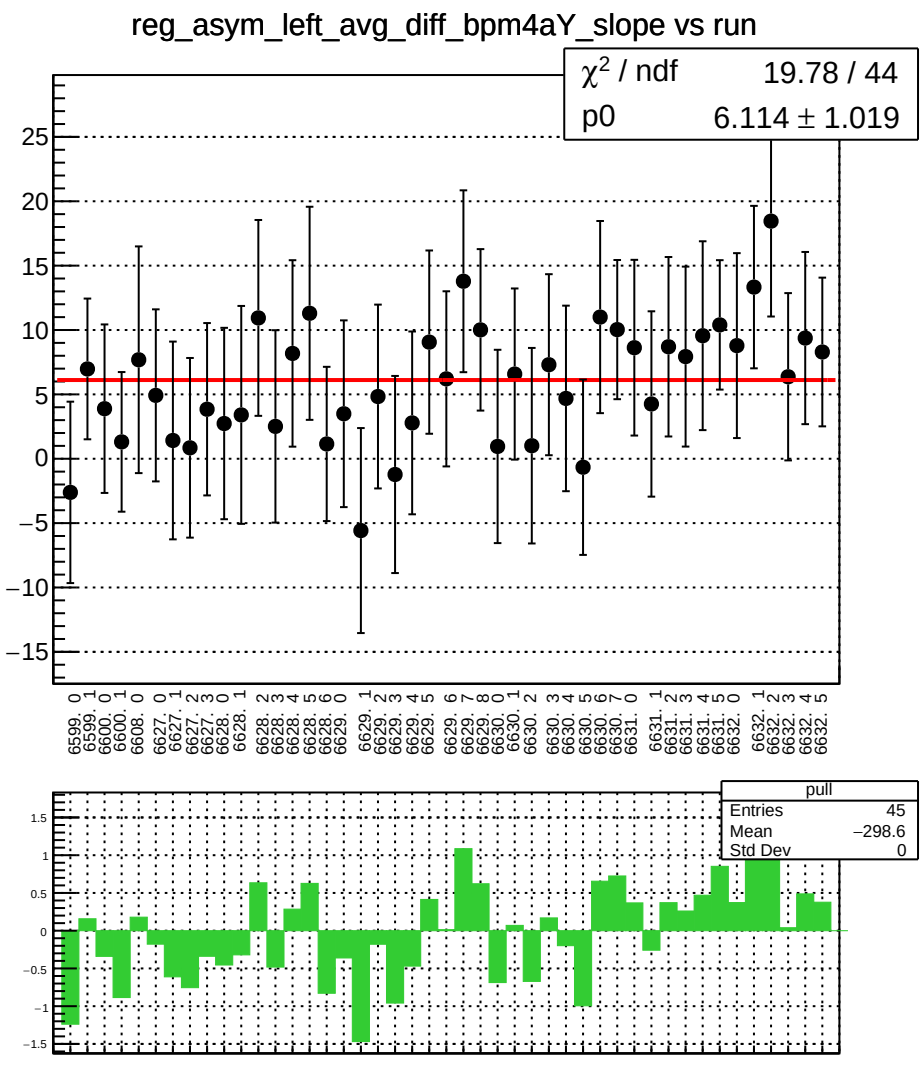

pull1D
Entries 45
Mean −0.02327
Std Dev 0.8674

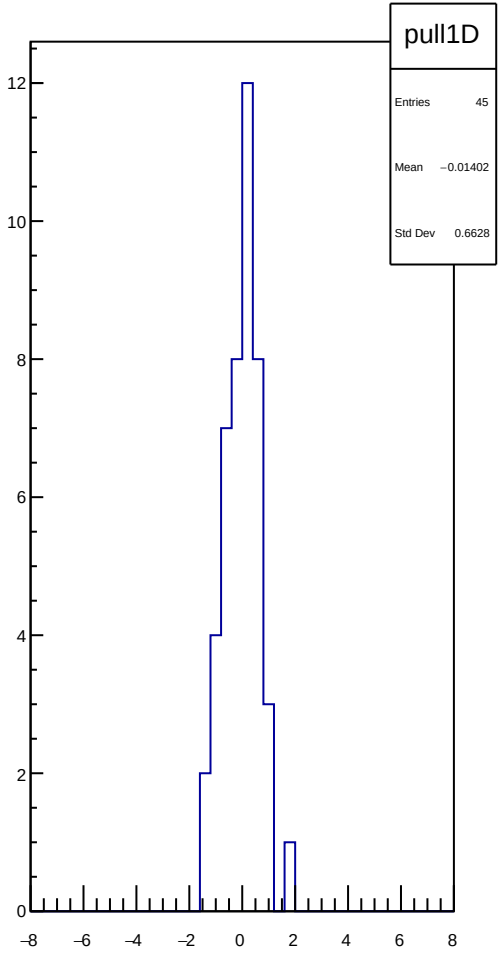

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 52.53 / 44
p0 0.02937 ± 0.01658
pull
Entries 45
Mean −19.66
Std Dev 0

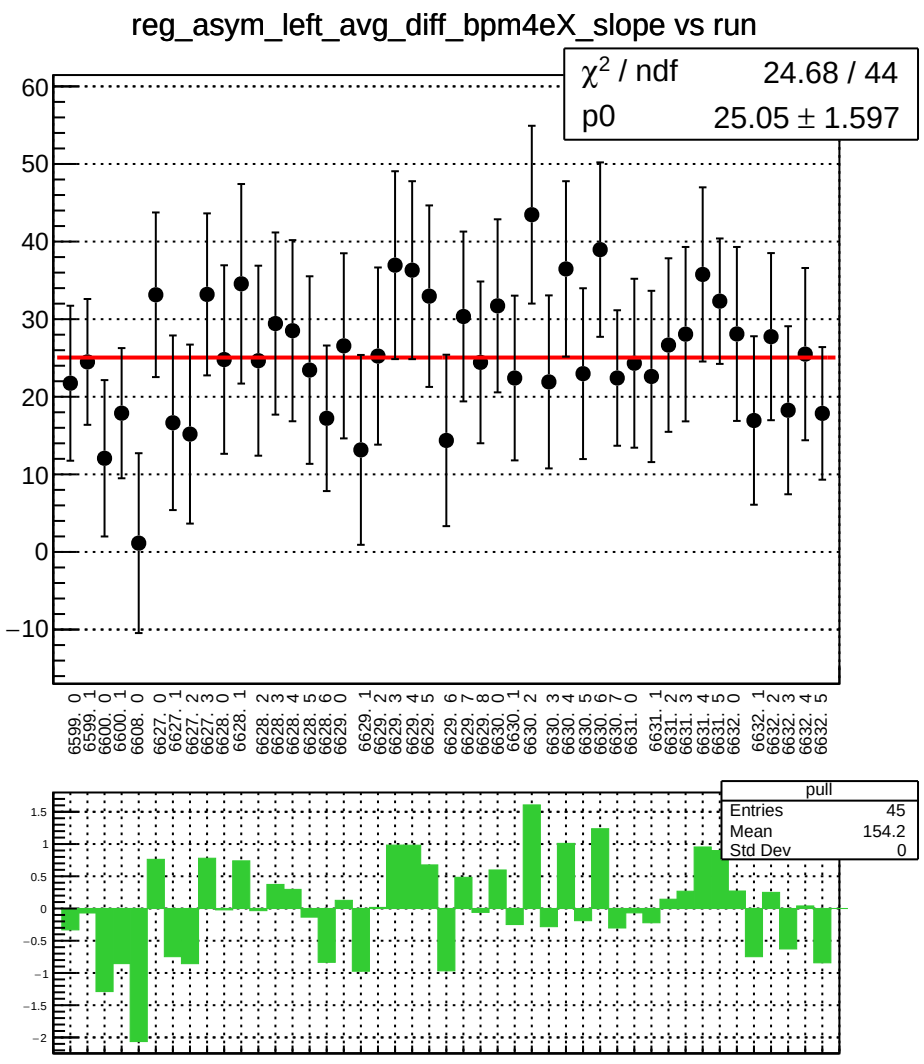

pull1D
Entries 45
Mean 0.02748
Std Dev 1.08

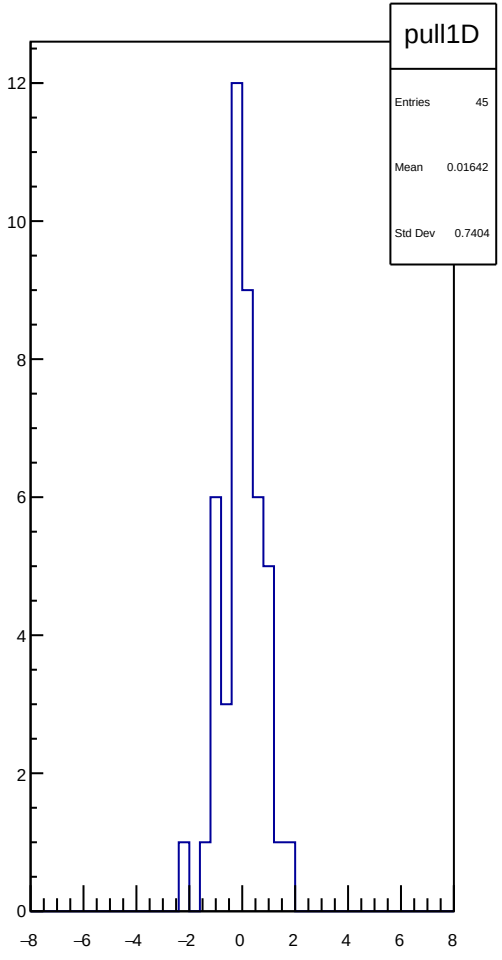

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 25.23 / 44
p0 −50.23 ± 1.548
pull
Entries 45
Mean 241.5
Std Dev 0

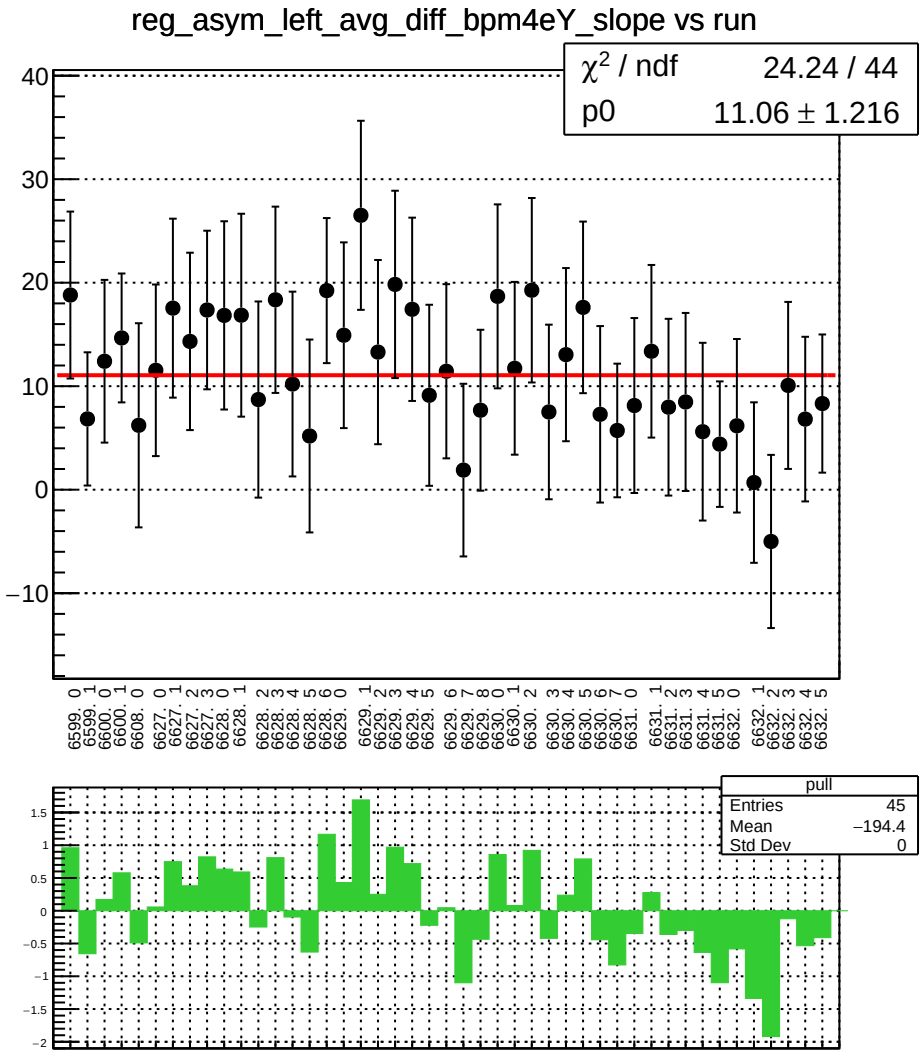

pull1D
Entries 45
Mean −0.01113
Std Dev 0.7487

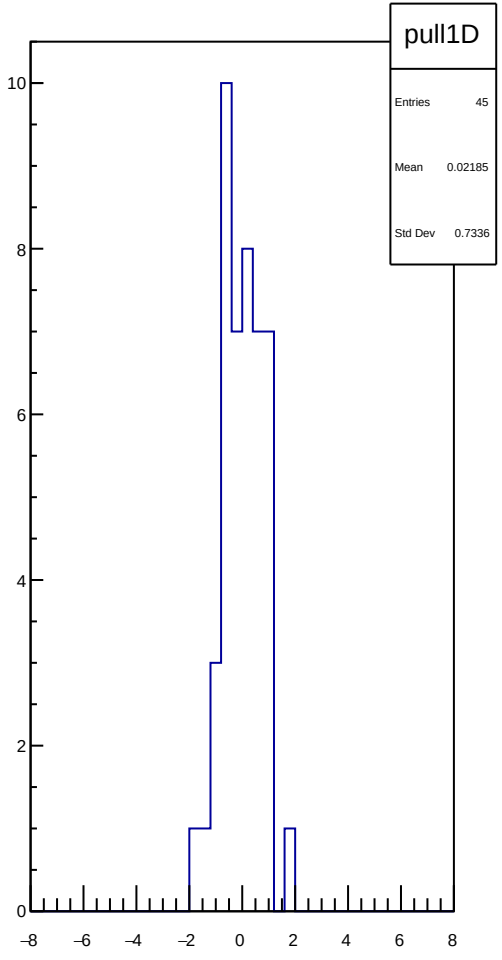

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 19.78 / 44
p0 6.114 ± 1.019
pull
Entries 45
Mean −298.6
Std Dev 0

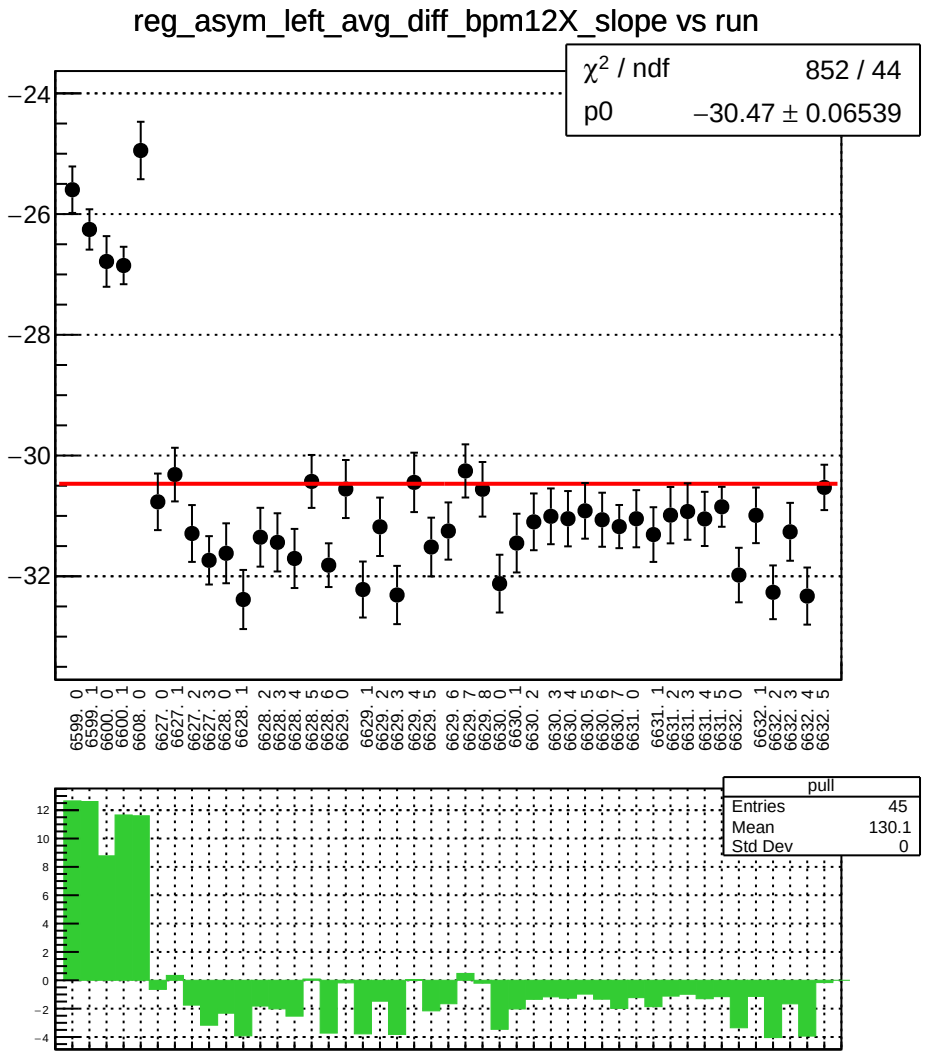

pull1D
Entries 45
Mean −0.01402
Std Dev 0.6628

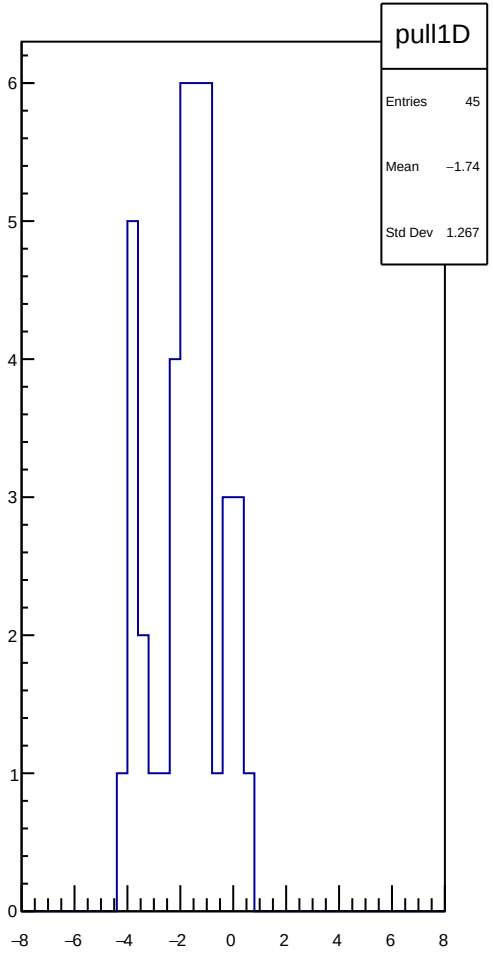

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 24.68 / 44
p0 25.05 ± 1.597
pull
Entries 45
Mean 154.2
Std Dev 0

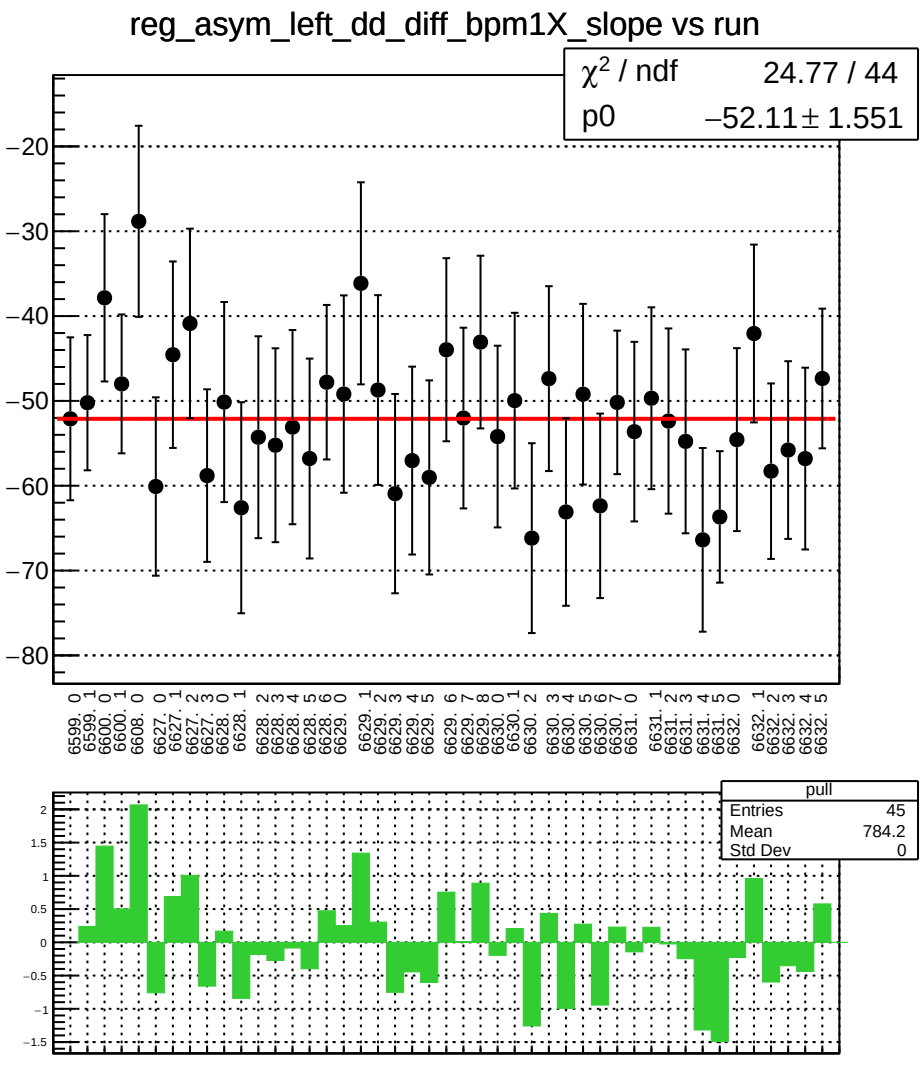

pull1D
Entries 45
Mean 0.01642
Std Dev 0.7404

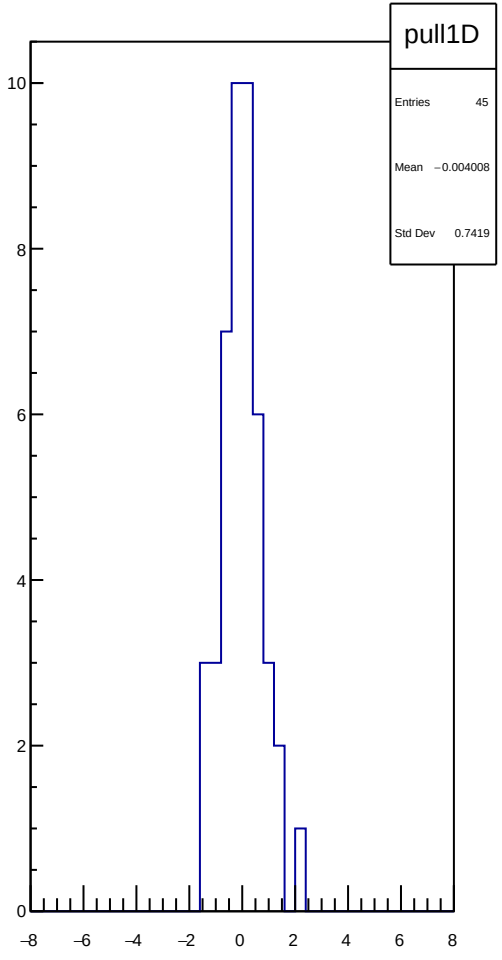

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 24.24 / 44
p0 11.06 ± 1.216
pull
Entries 45
Mean −194.4
Std Dev 0

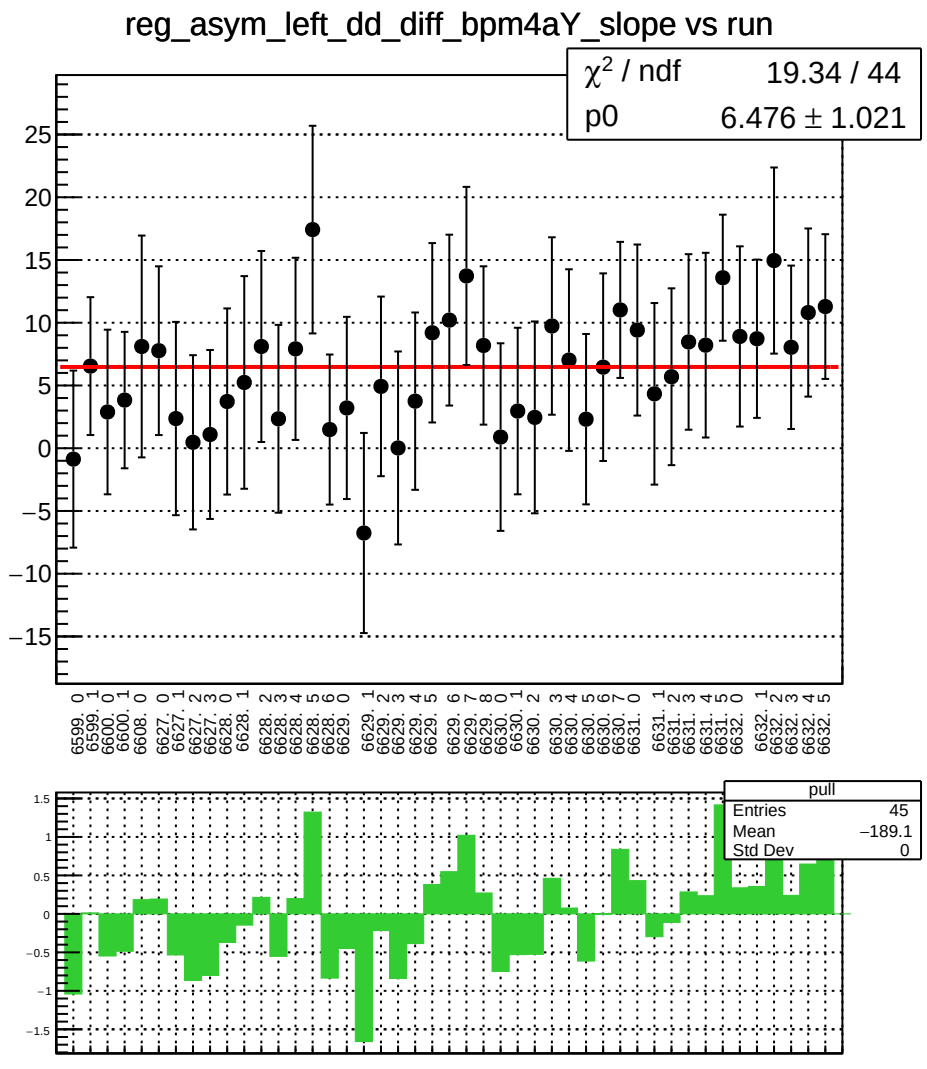

pull1D
Entries 45
Mean 0.02185
Std Dev 0.7336

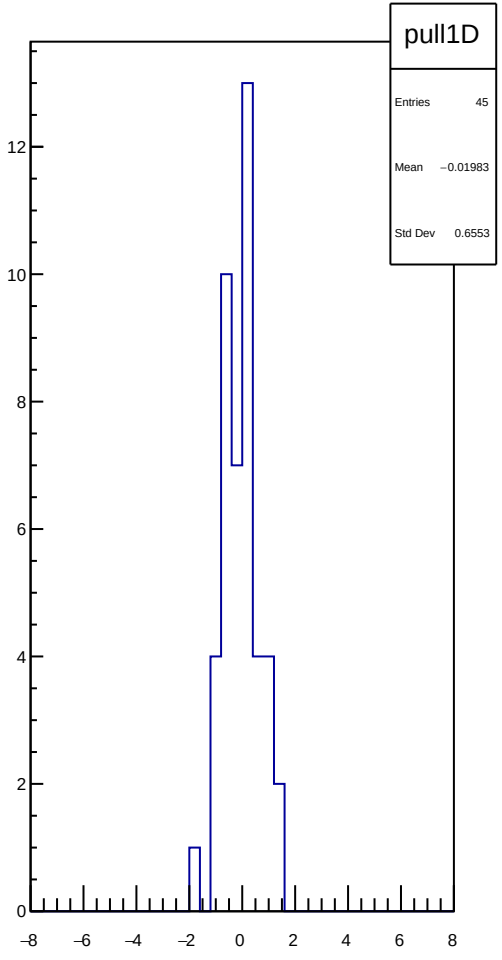

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 852 / 44
p0 −30.47 ± 0.06539
−24
−26
−28
−30
−32
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 130.1
Std Dev 0
12
10
8
6
4
2
0
−2
−4

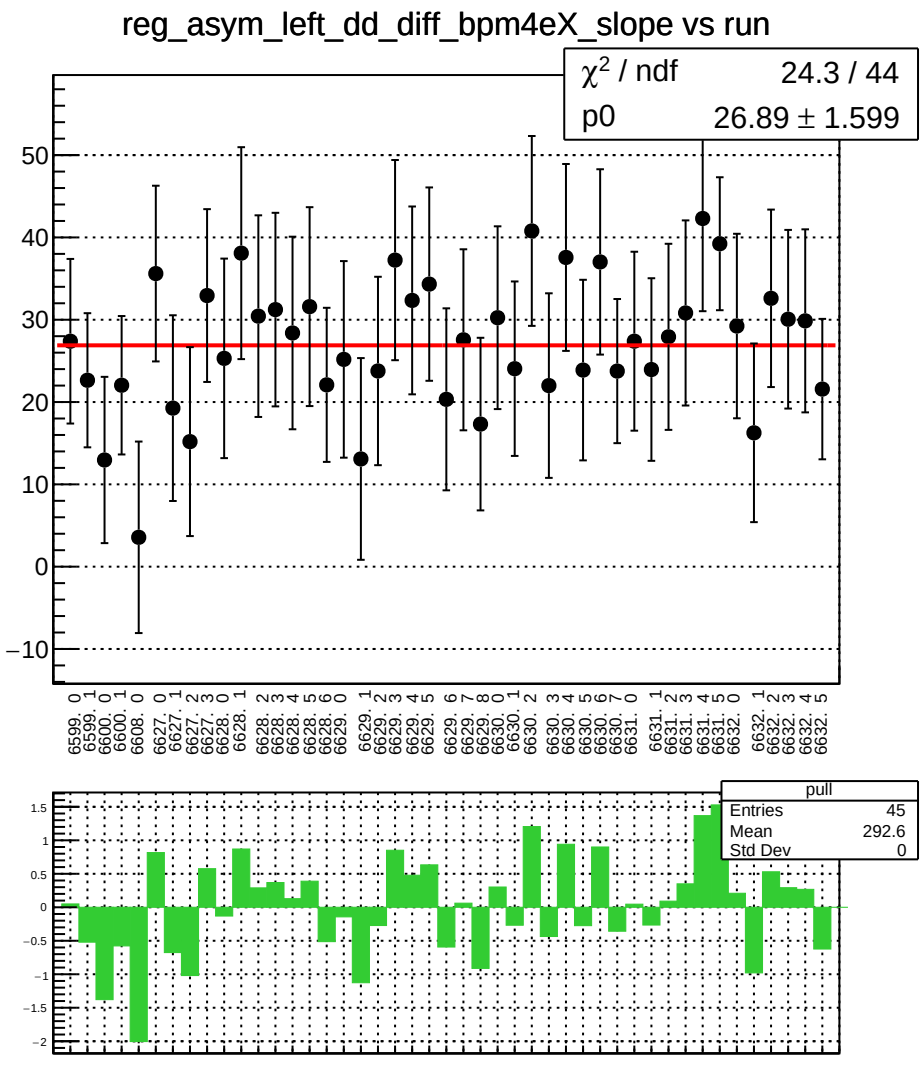

pull1D
Entries 45
Mean −1.74
Std Dev 1.267
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

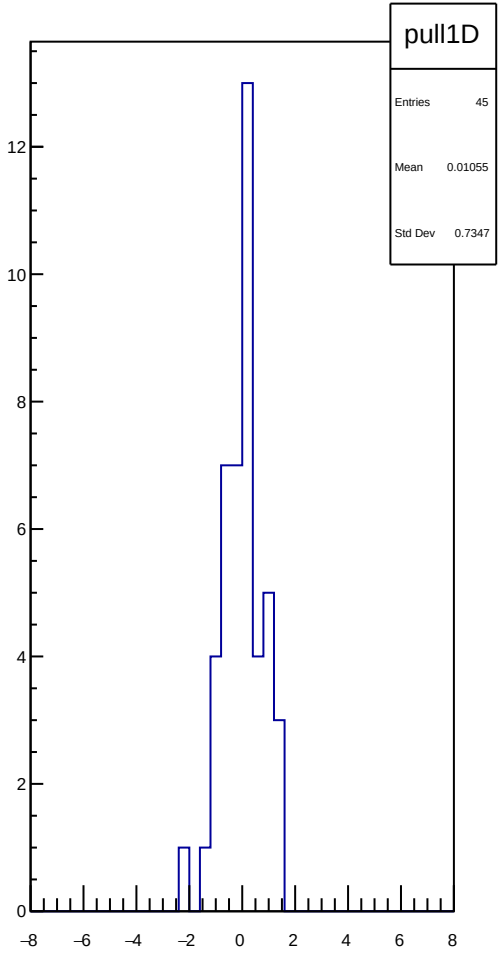

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 24.77 / 44
p0 −52.11 ± 1.551
pull
Entries 45
Mean 784.2
Std Dev 0

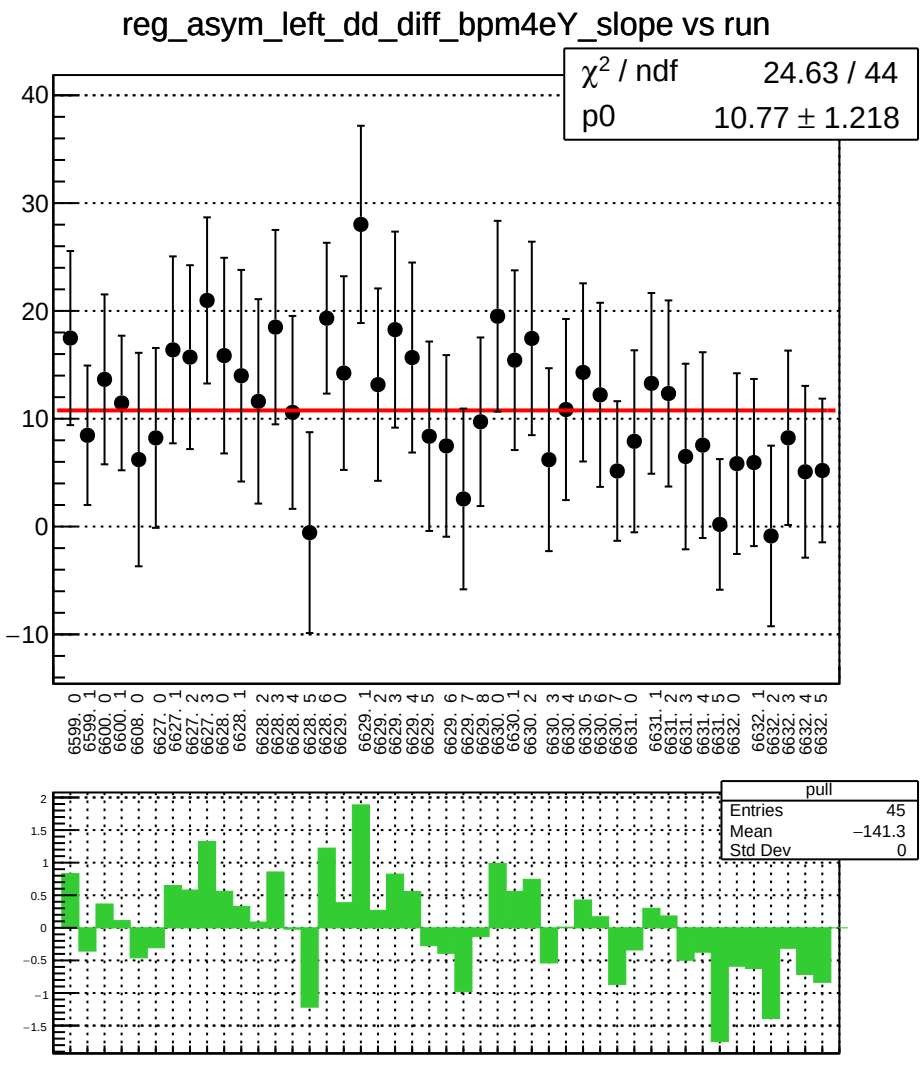

pull1D
Entries 45
Mean −0.004008
Std Dev 0.7419

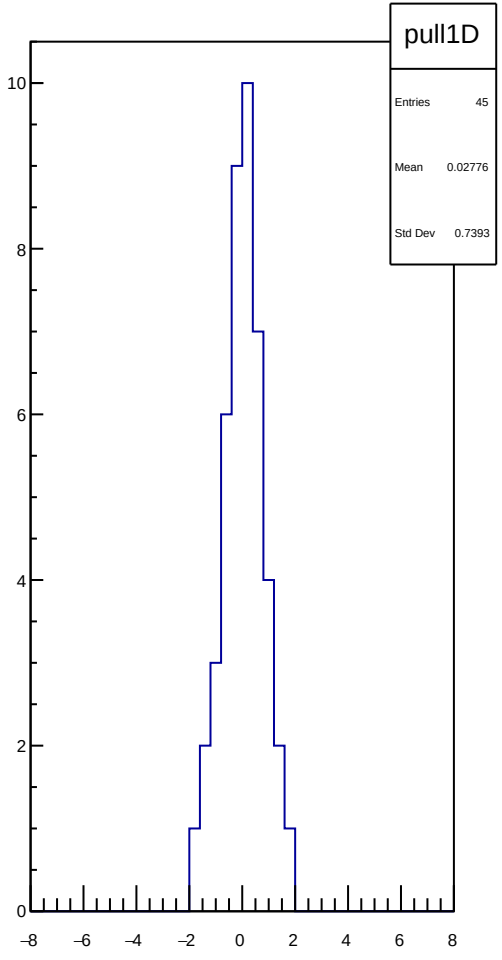

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.34 / 44
p0 6.476 ± 1.021
pull
Entries 45
Mean −189.1
Std Dev 0

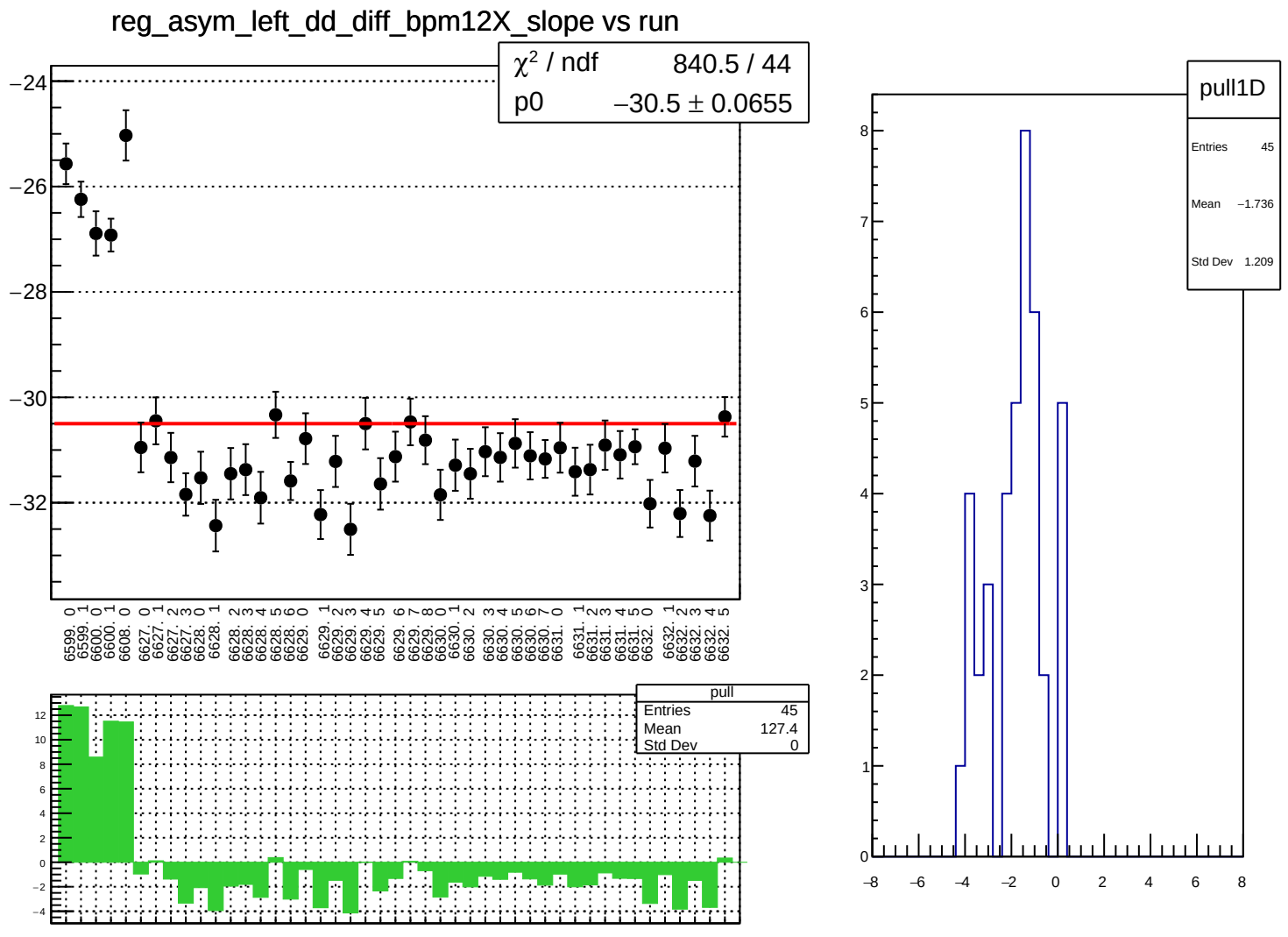

pull1D
Entries 45
Mean −0.01983
Std Dev 0.6553

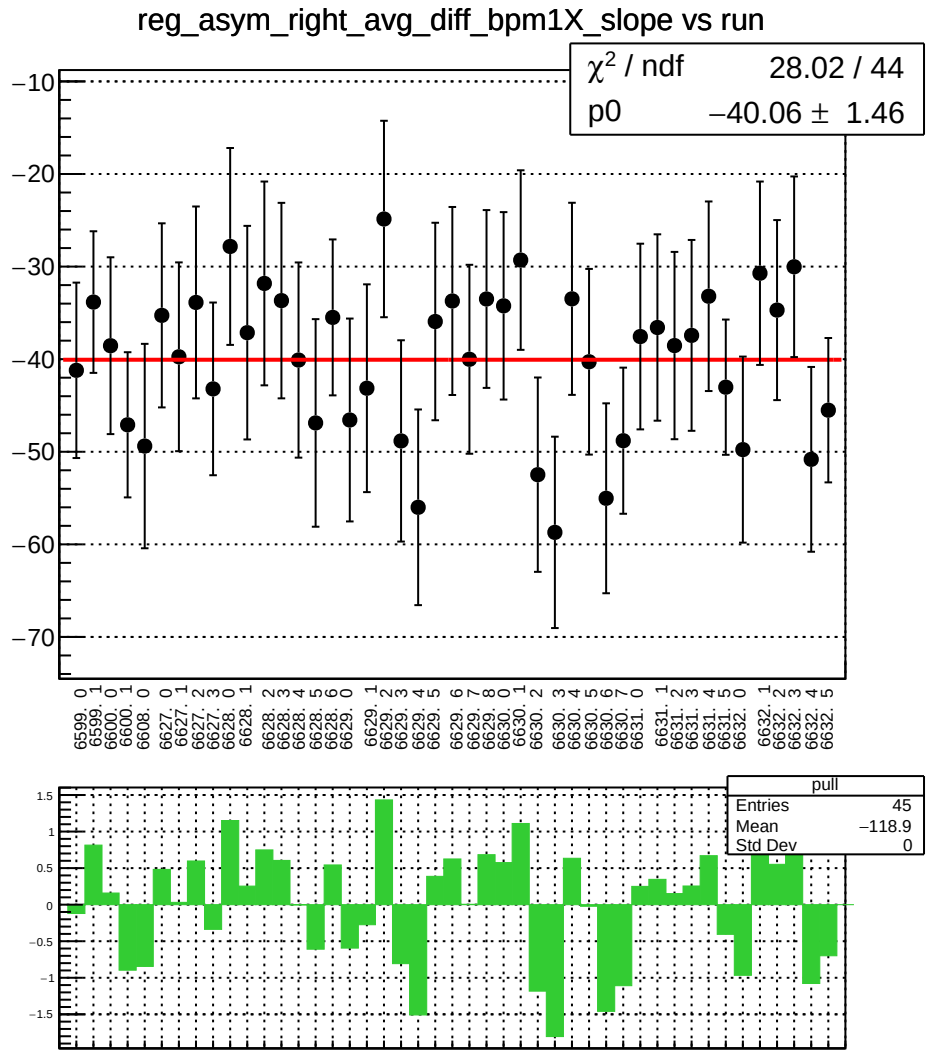

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 24.3 / 44
p0 26.89 ± 1.599
pull
Entries 45
Mean 292.6
Std Dev 0


pull1D
Entries 45
Mean 0.01055
Std Dev 0.7347


reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 24.63 / 44
p0 10.77 ± 1.218
pull
Entries 45
Mean −141.3
Std Dev 0


pull1D
Entries 45
Mean 0.02776
Std Dev 0.7393


reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 840.5 / 44
p0 −30.5 ± 0.0655
−24
−26
−28
−30
−32
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 127.4
Std Dev 0
12
10
8
6
4
2
0
−2
−4
pull1D
Entries 45
Mean −1.736
Std Dev 1.209
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 28.02 / 44
p0 −40.06 ± 1.46
−10
−20
−30
−40
−50
−60
−70
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
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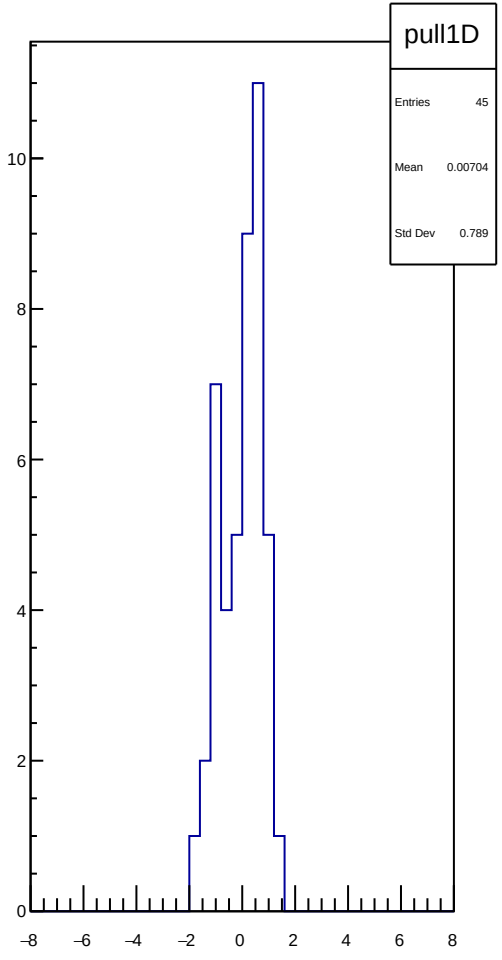
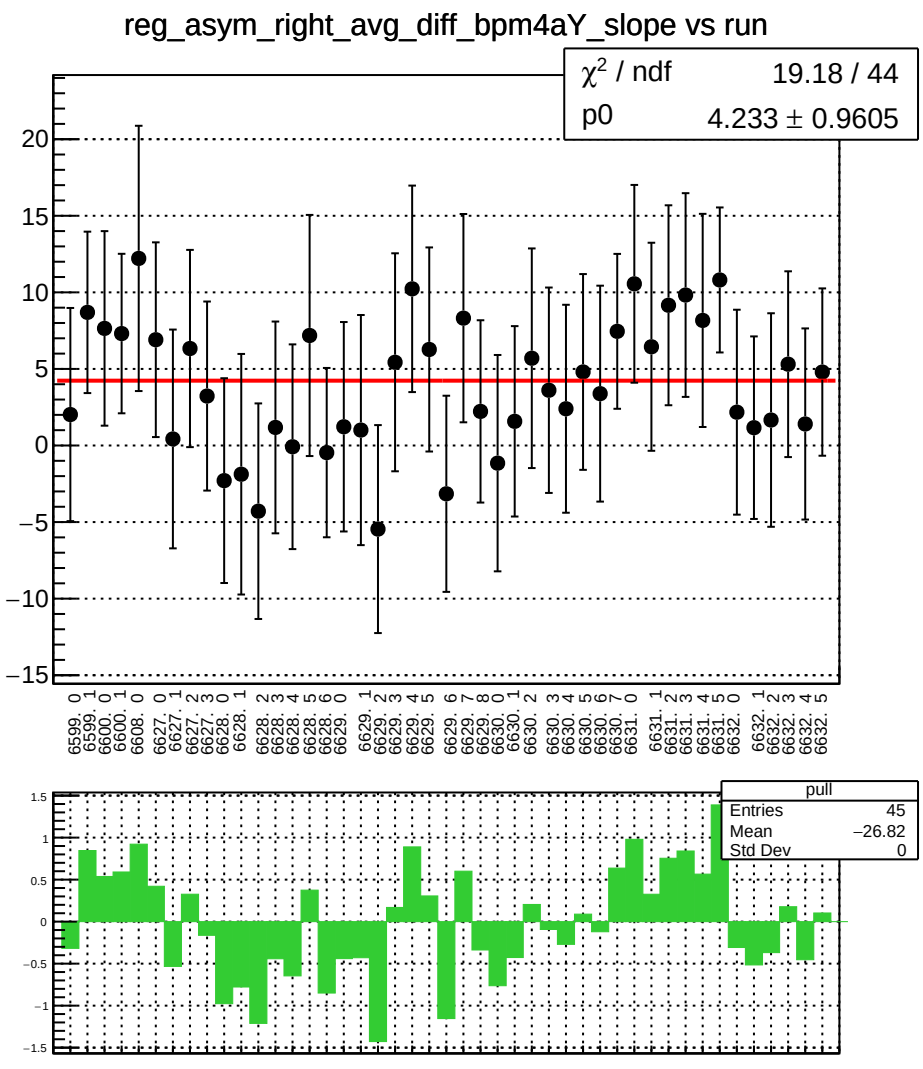
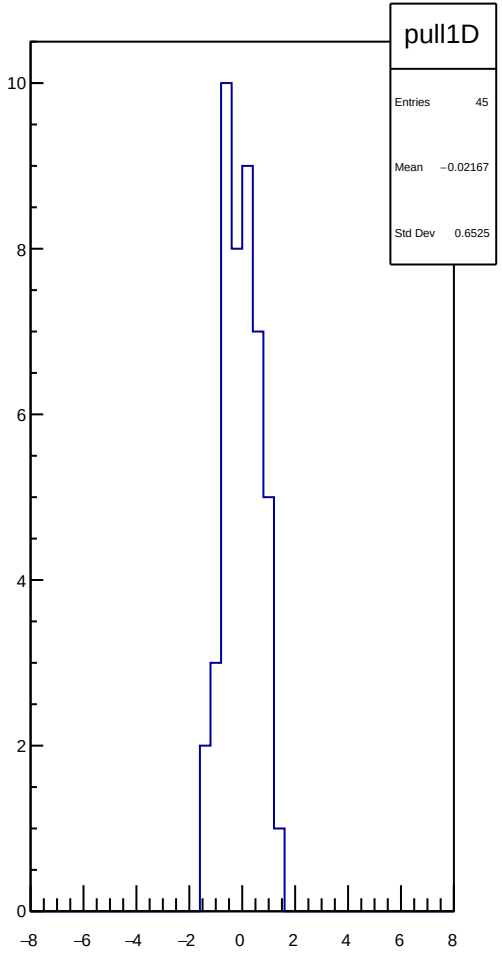
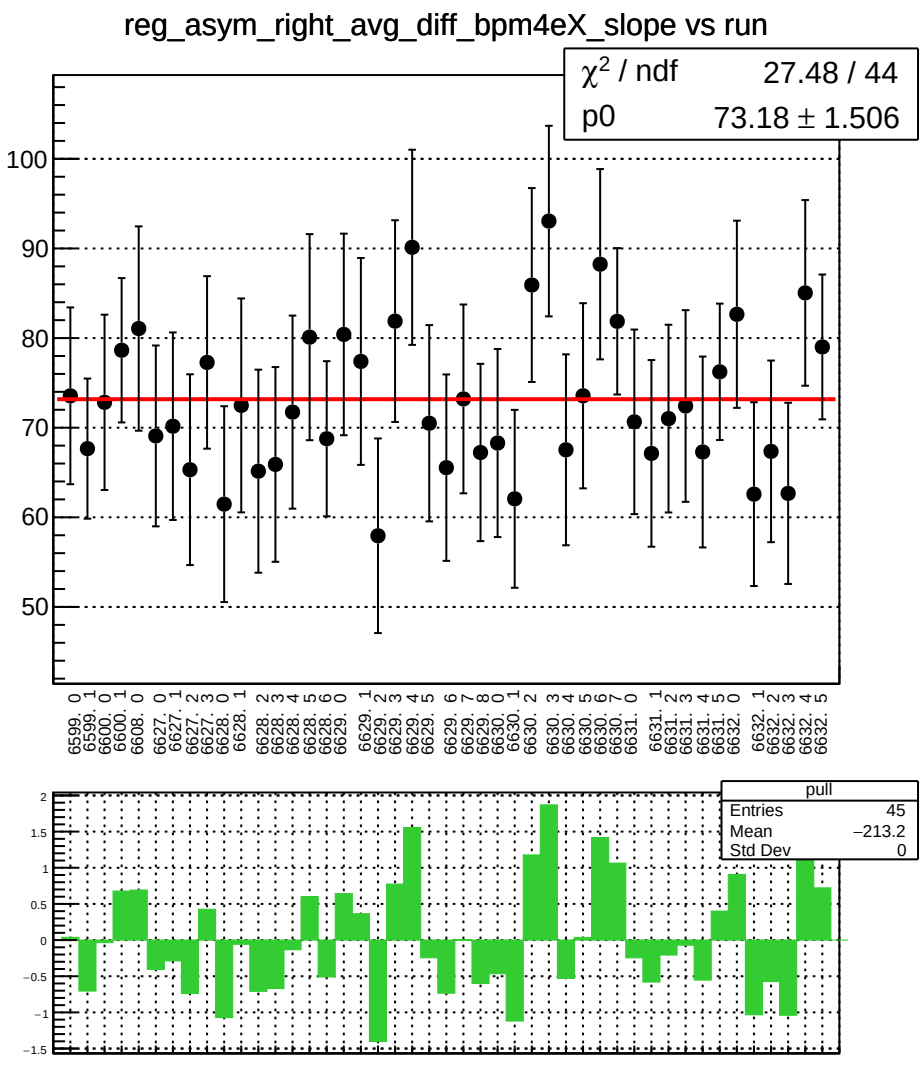
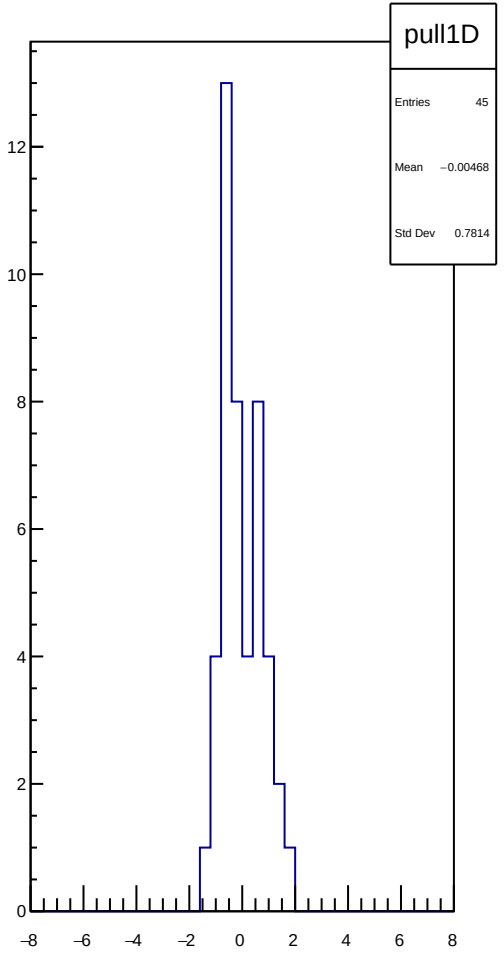
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −118.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

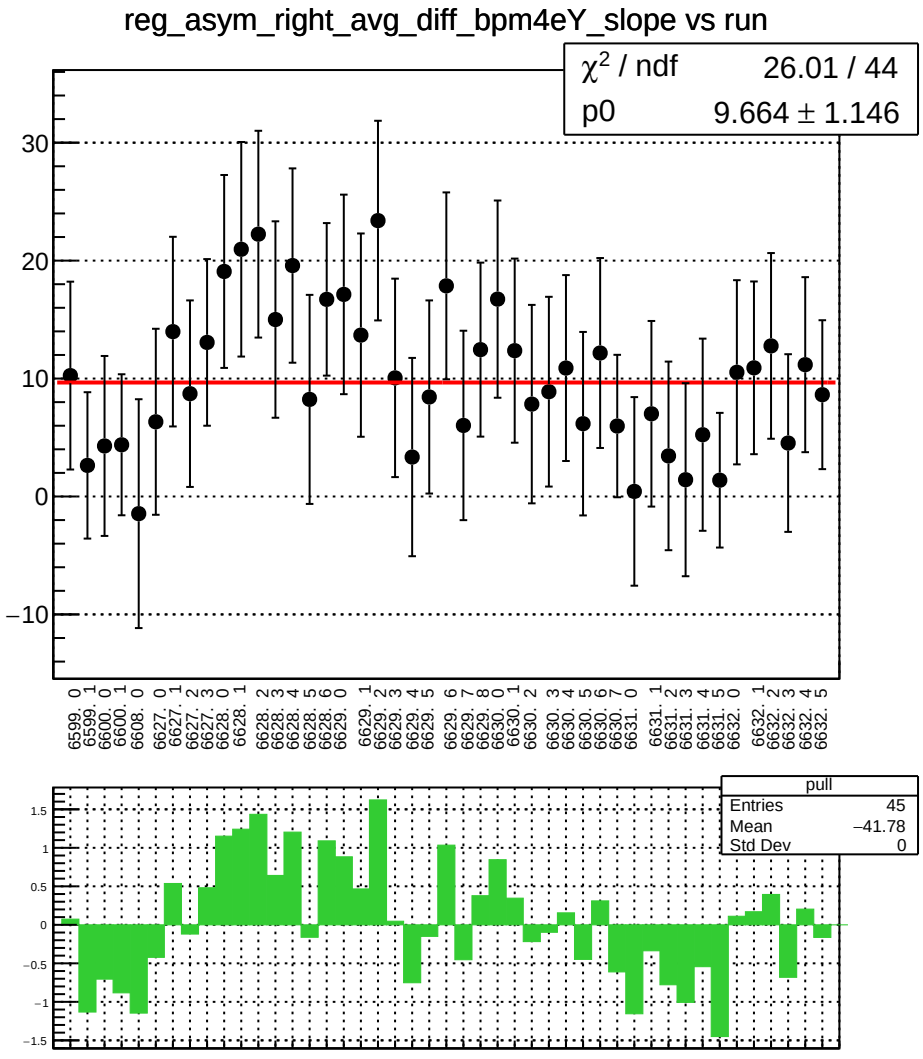

pull1D
Entries 45
Mean 0.00704
Std Dev 0.789
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

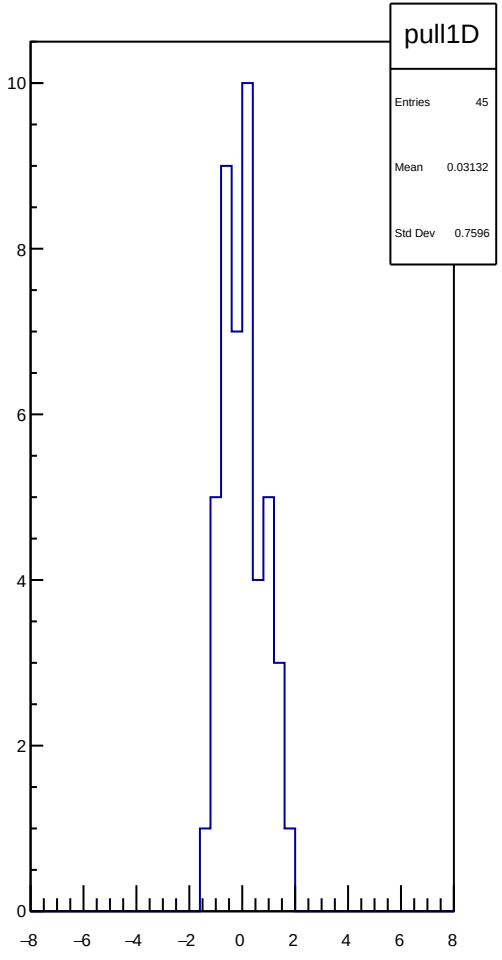

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 19.18 / 44
p0 4.233 ± 0.9605
pull
Entries 45
Mean −26.82
Std Dev 0

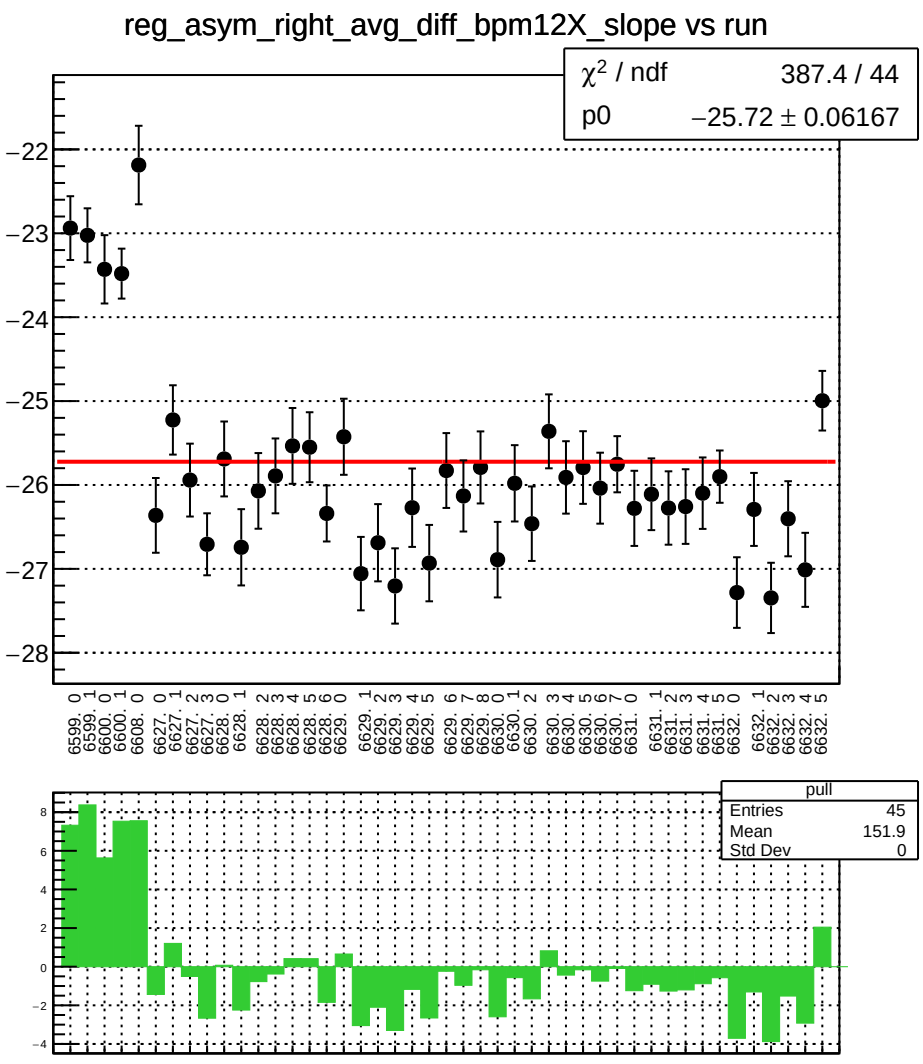

pull1D
Entries 45
Mean −0.02167
Std Dev 0.6525

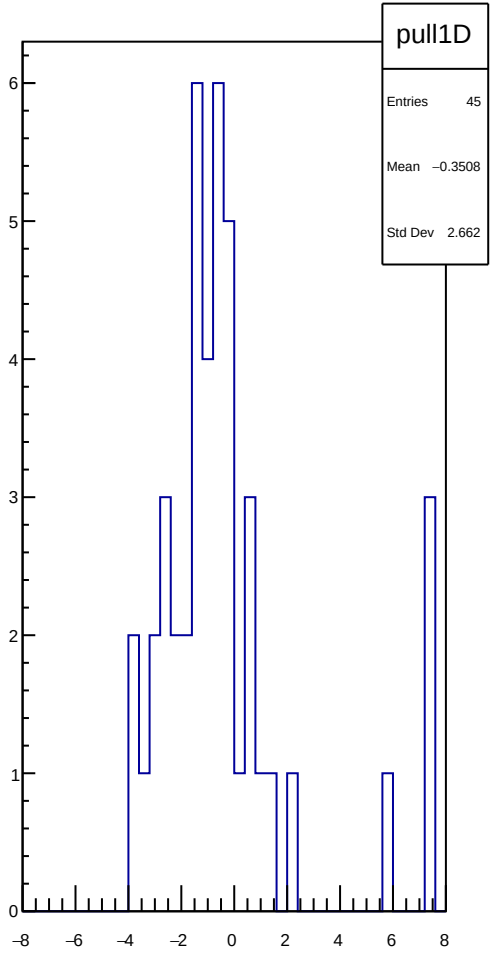

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 27.48 / 44
p0 73.18 ± 1.506
pull
Entries 45
Mean −213.2
Std Dev 0

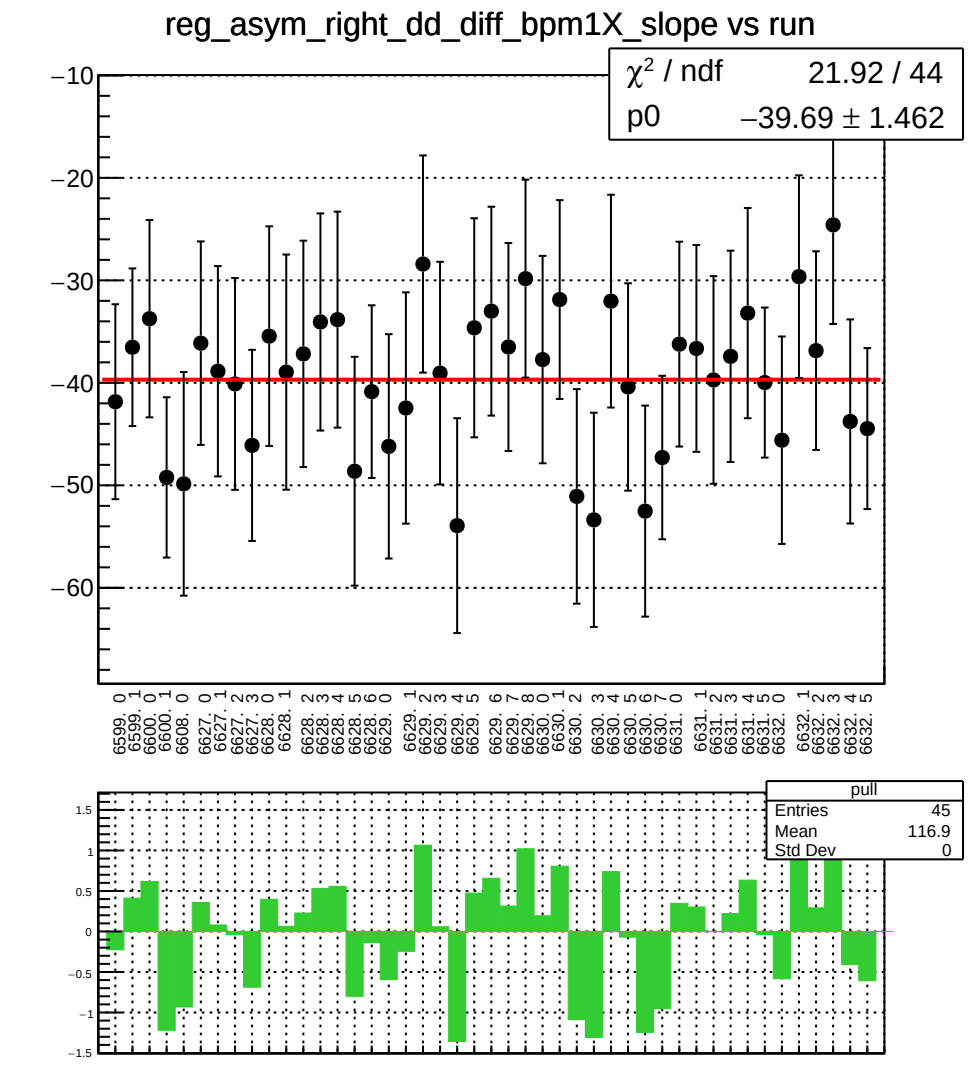

pull1D
Entries 45
Mean −0.00468
Std Dev 0.7814

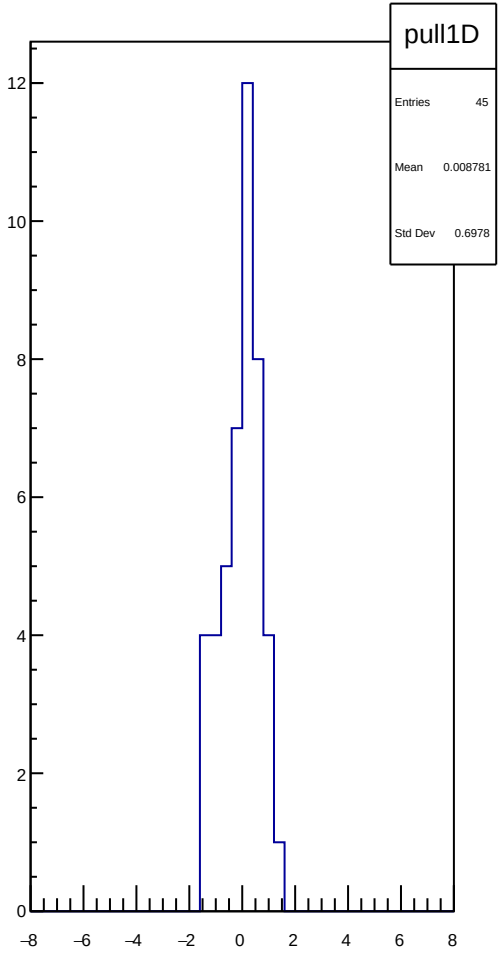

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 26.01 / 44
p0 9.664 ± 1.146
pull
Entries 45
Mean −41.78
Std Dev 0

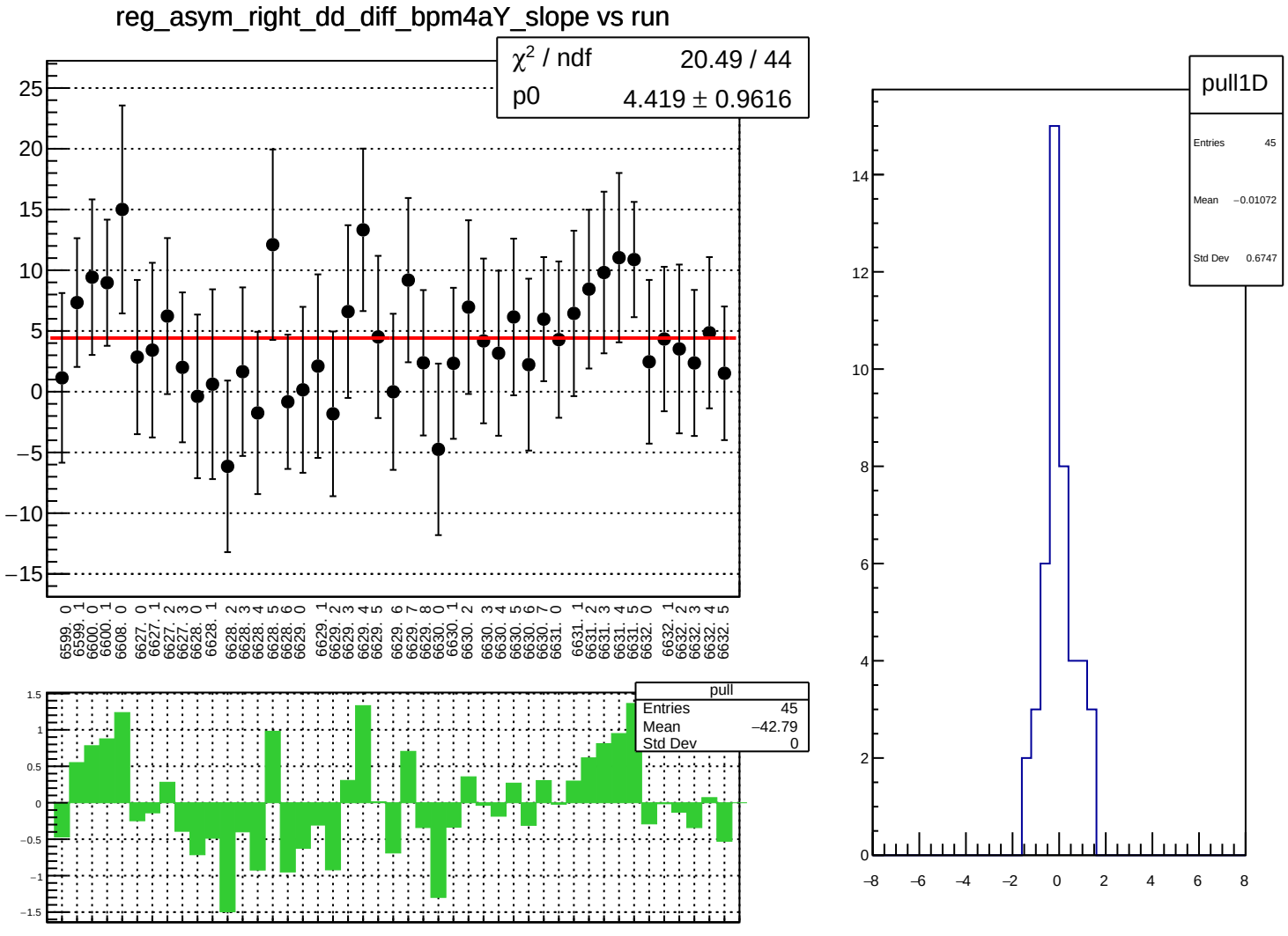

pull1D
Entries 45
Mean 0.03132
Std Dev 0.7596

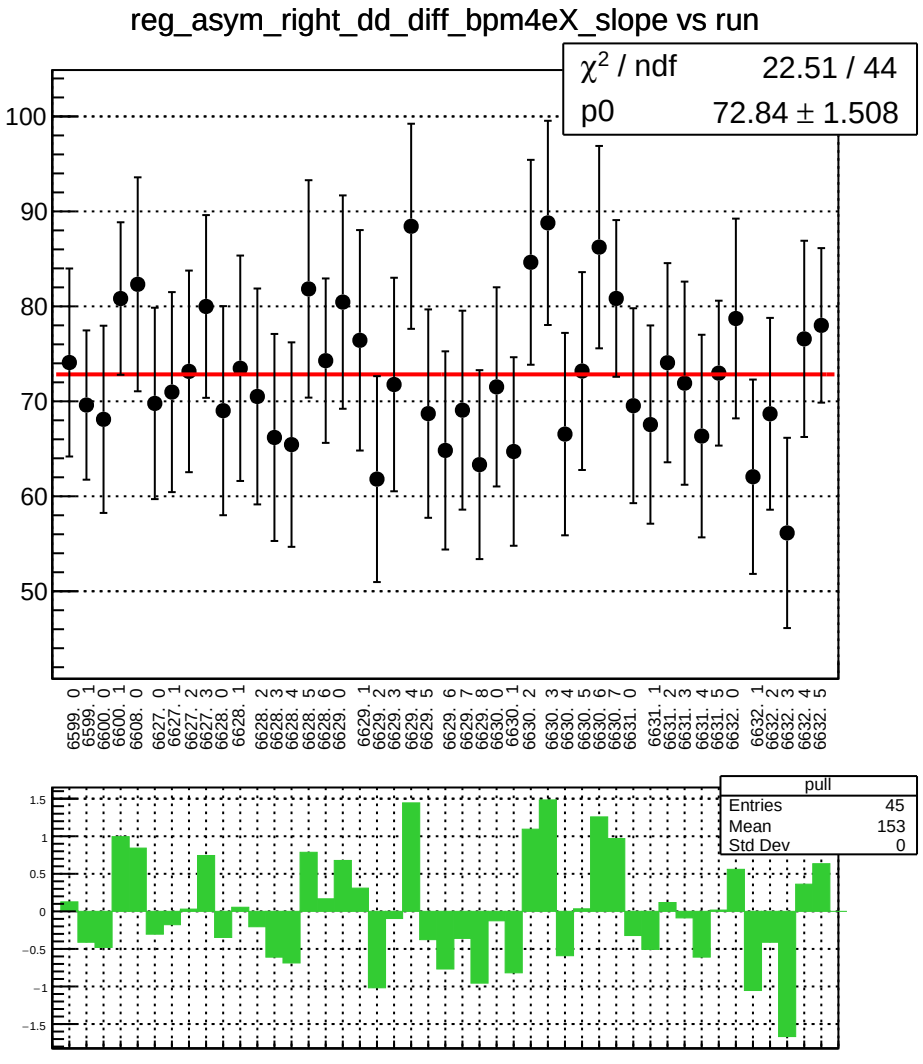

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 387.4 / 44
p0 −25.72 ± 0.06167
pull
Entries 45
Mean 151.9
Std Dev 0

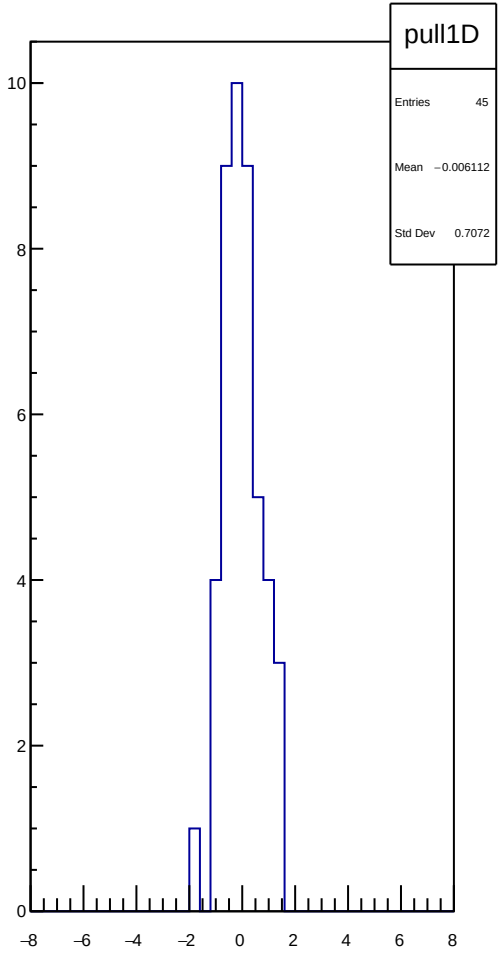

pull1D
Entries 45
Mean −0.3508
Std Dev 2.662

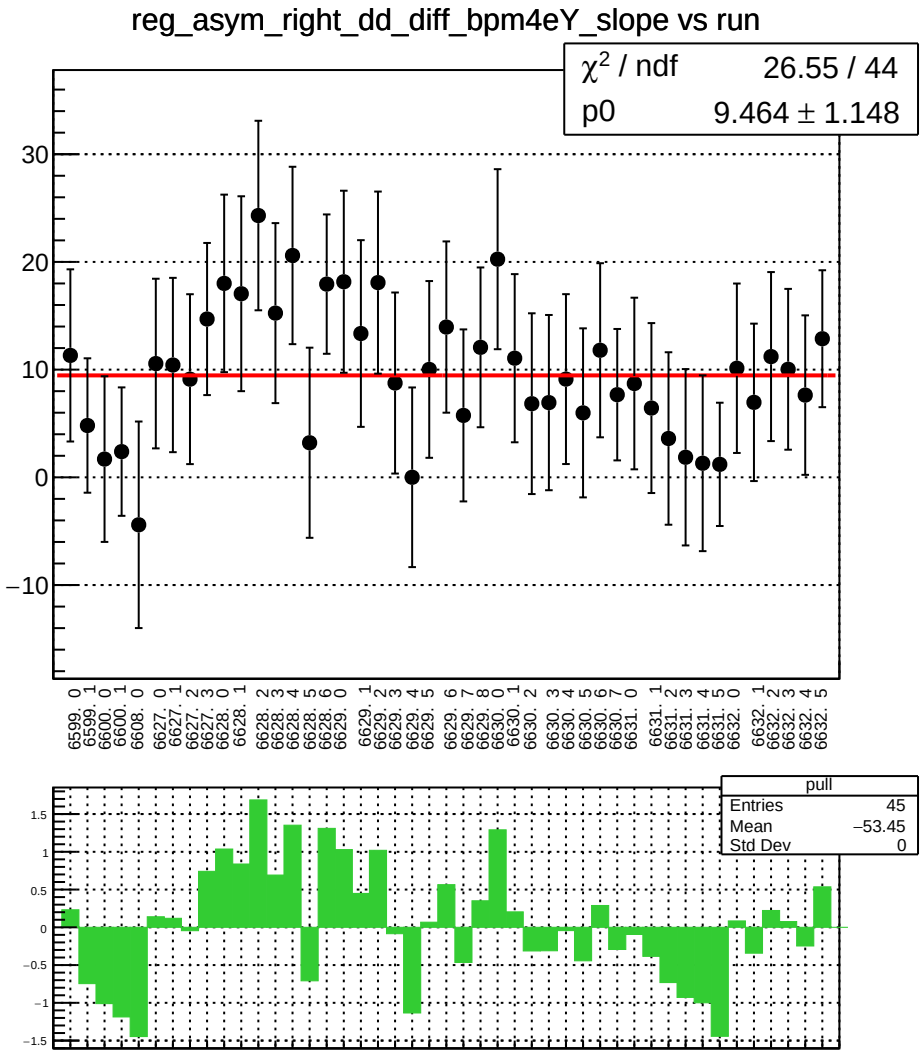

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 21.92 / 44
p0 −39.69 ± 1.462
pull
Entries 45
Mean 116.9
Std Dev 0

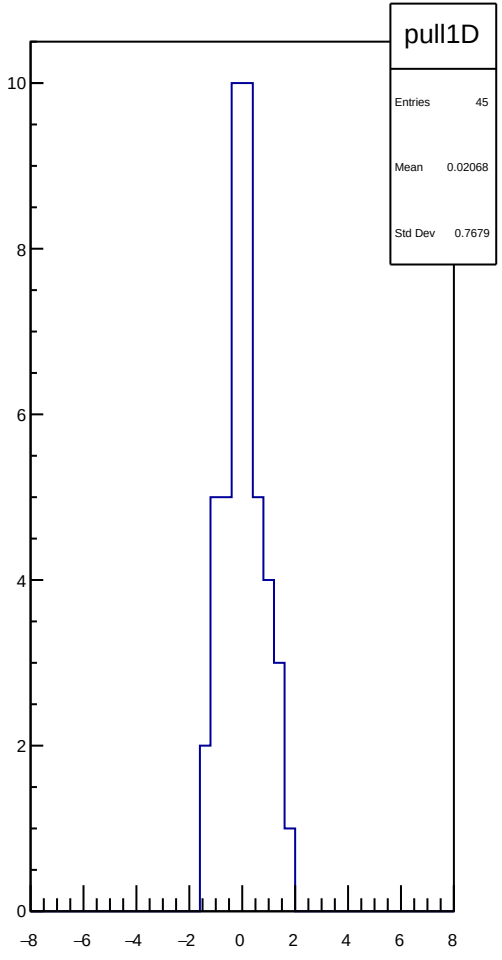

pull1D
Entries 45
Mean 0.008781
Std Dev 0.6978

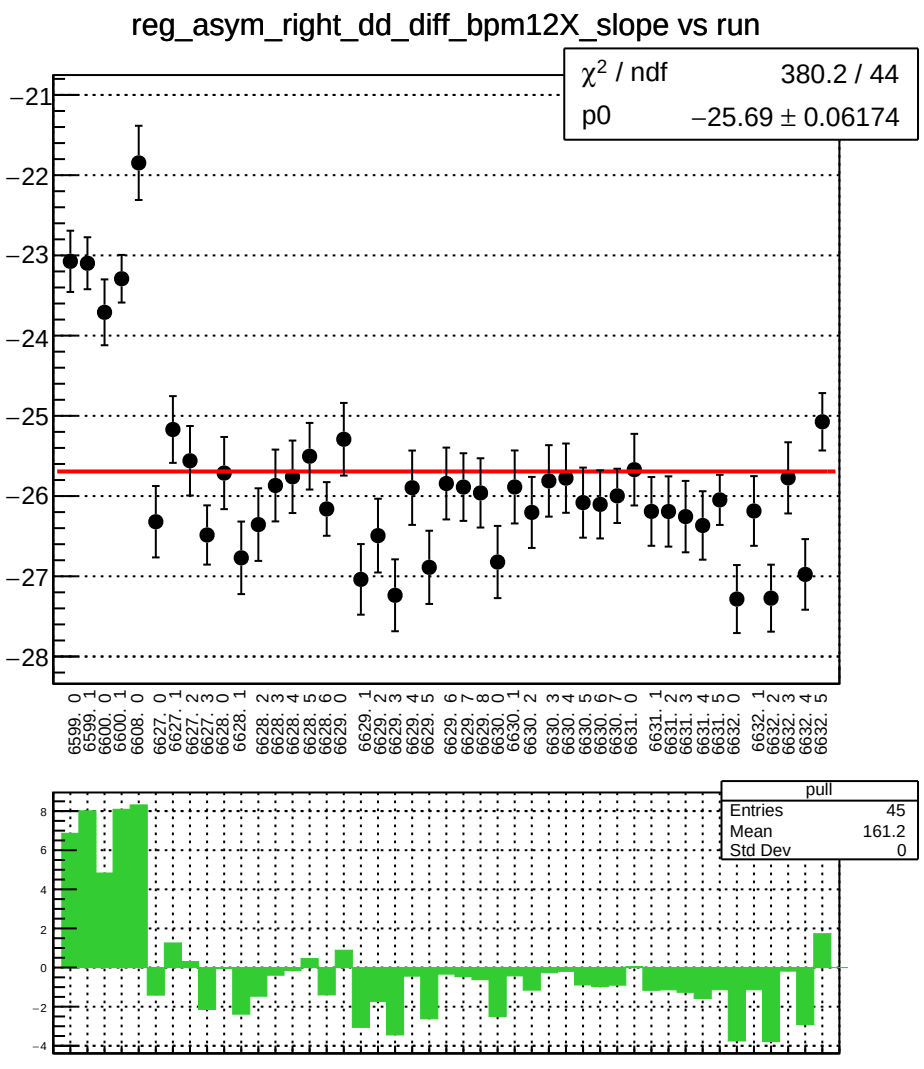

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.49 / 44
p0 4.419 ± 0.9616
pull
Entries 45
Mean −42.79
Std Dev 0
pull1D
Entries 45
Mean −0.01072
Std Dev 0.6747

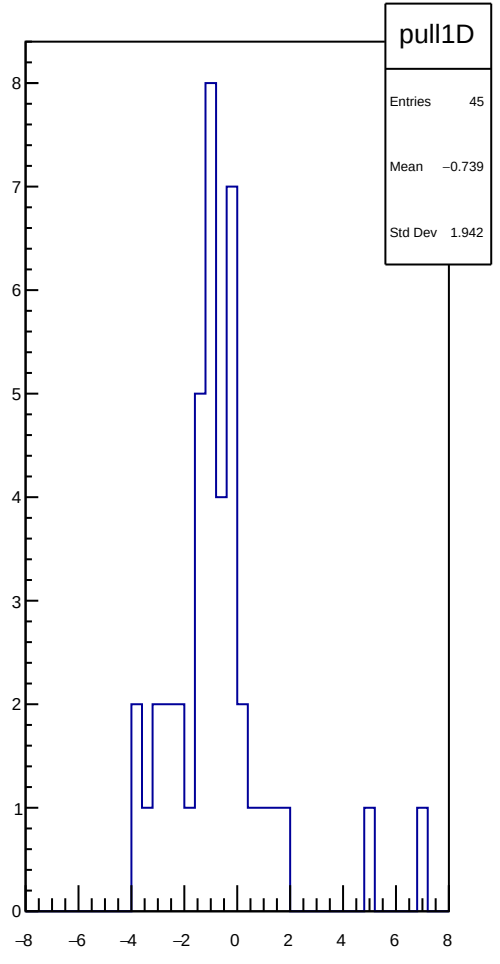

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.51 / 44
p0 72.84 ± 1.508
pull
Entries 45
Mean 153
Std Dev 0

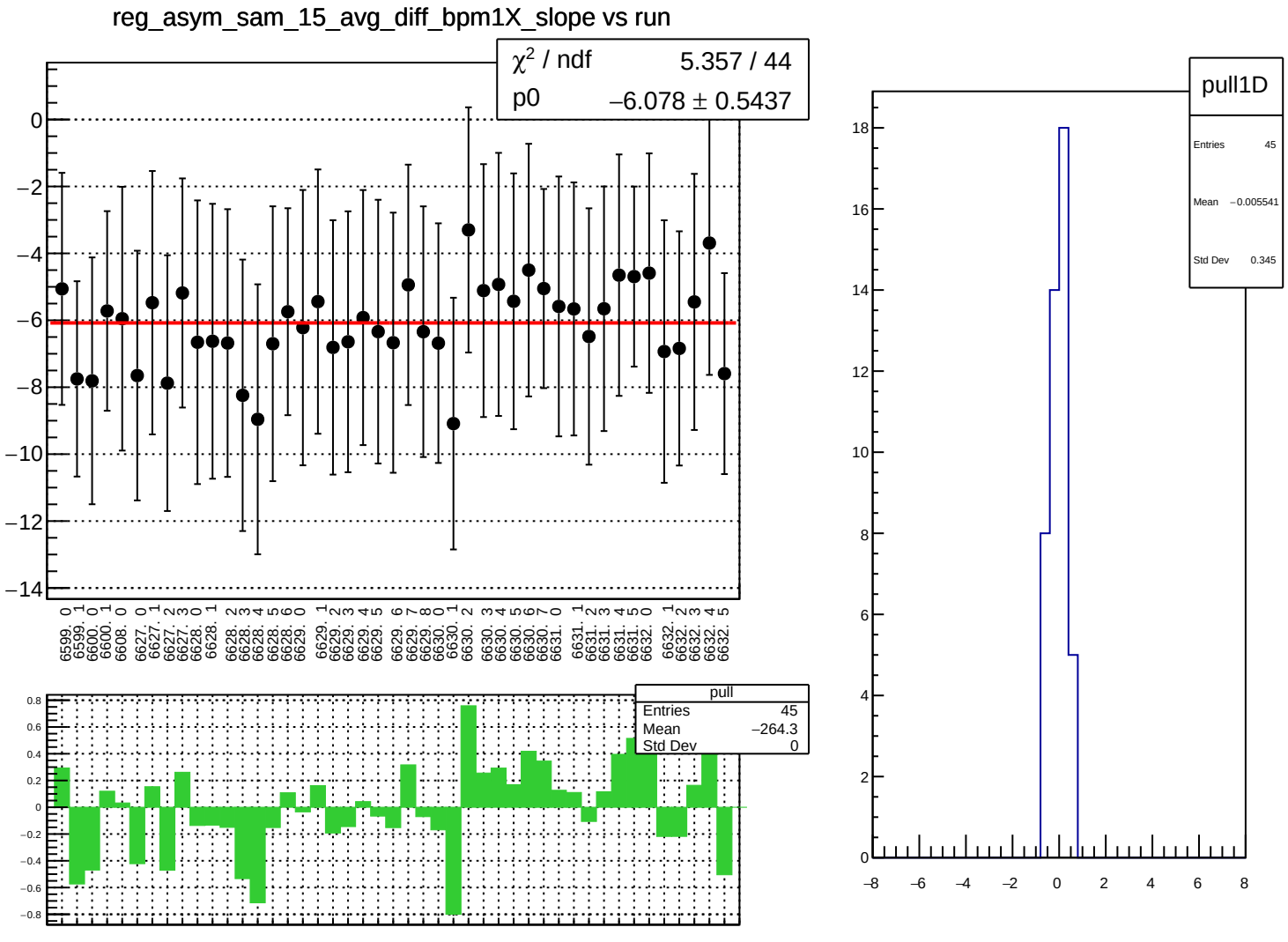

pull1D
Entries 45
Mean −0.006112
Std Dev 0.7072

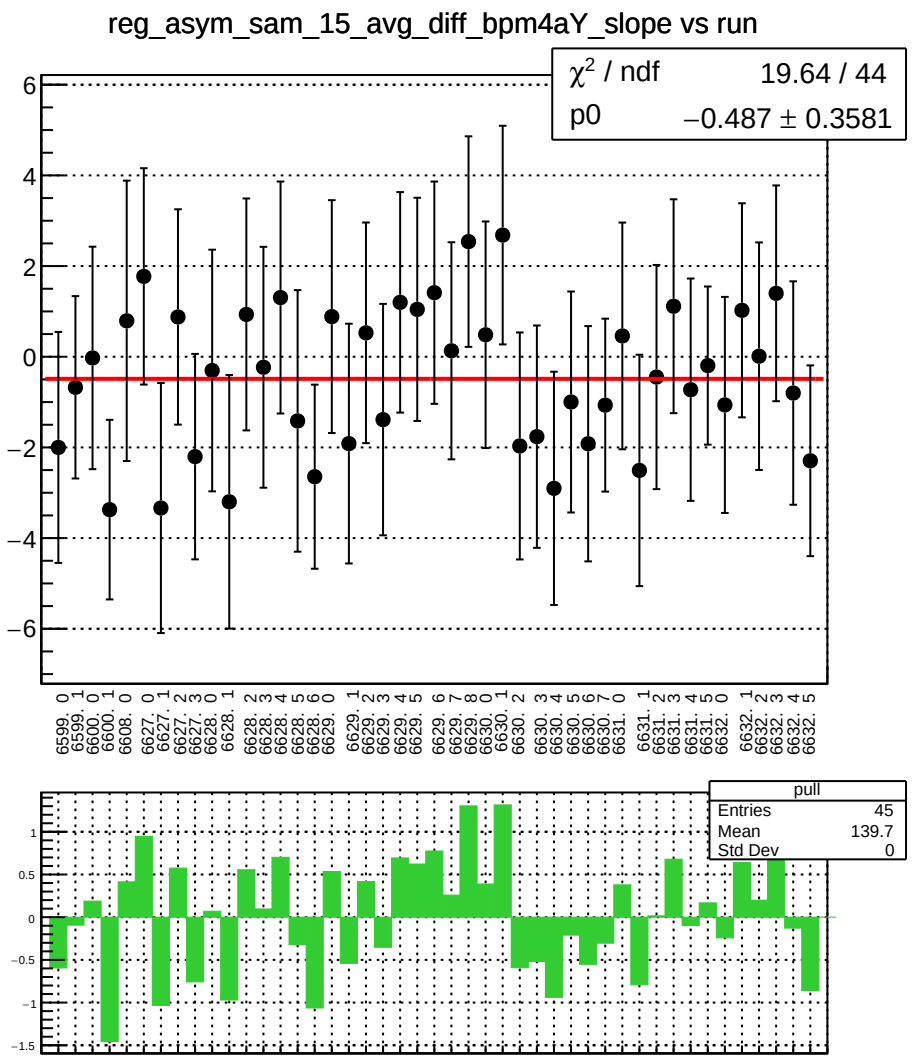

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 26.55 / 44
p0 9.464 ± 1.148
30
20
10
0
−10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −53.45
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

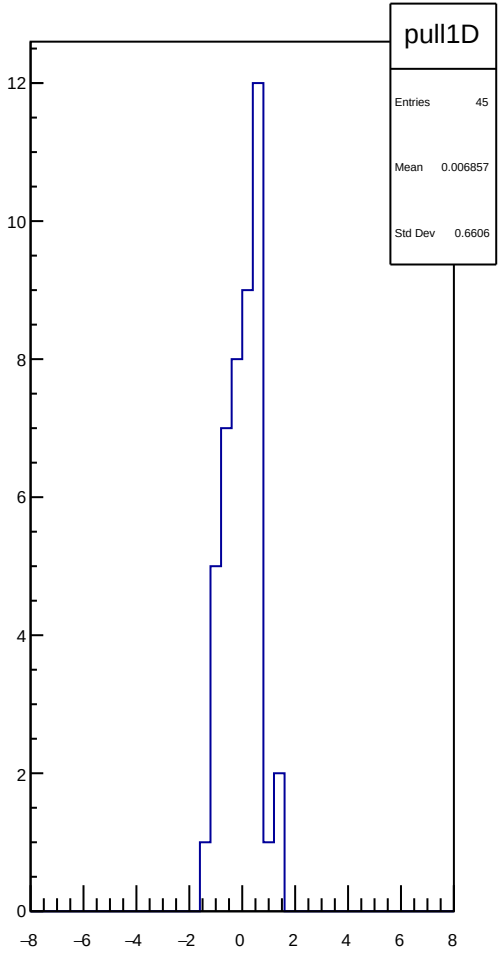

pull1D
Entries 45
Mean 0.02068
Std Dev 0.7679
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

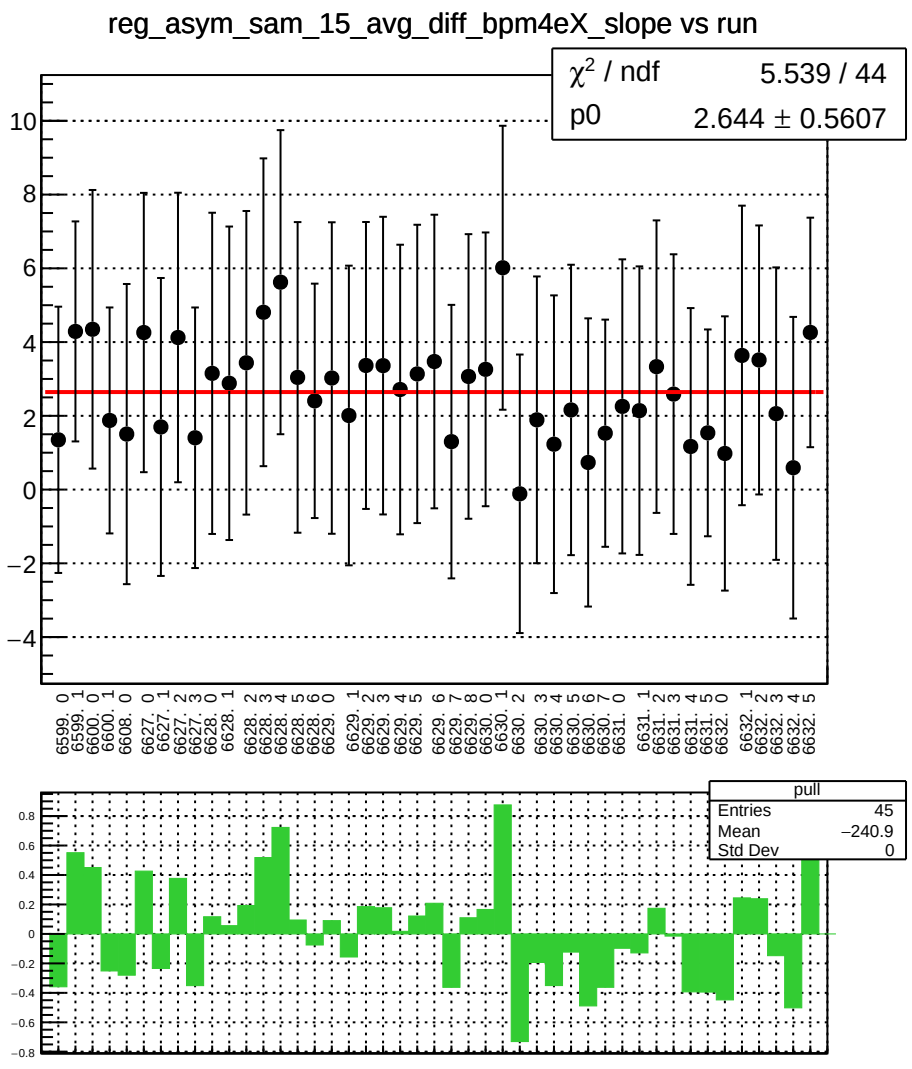

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 380.2 / 44
p0 −25.69 ± 0.06174
pull
Entries 45
Mean 161.2
Std Dev 0

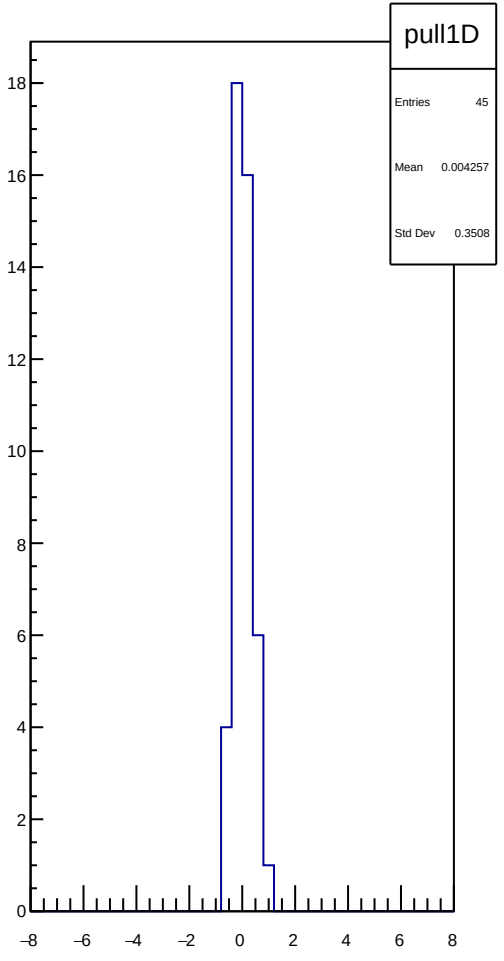

pull1D
Entries 45
Mean −0.739
Std Dev 1.942

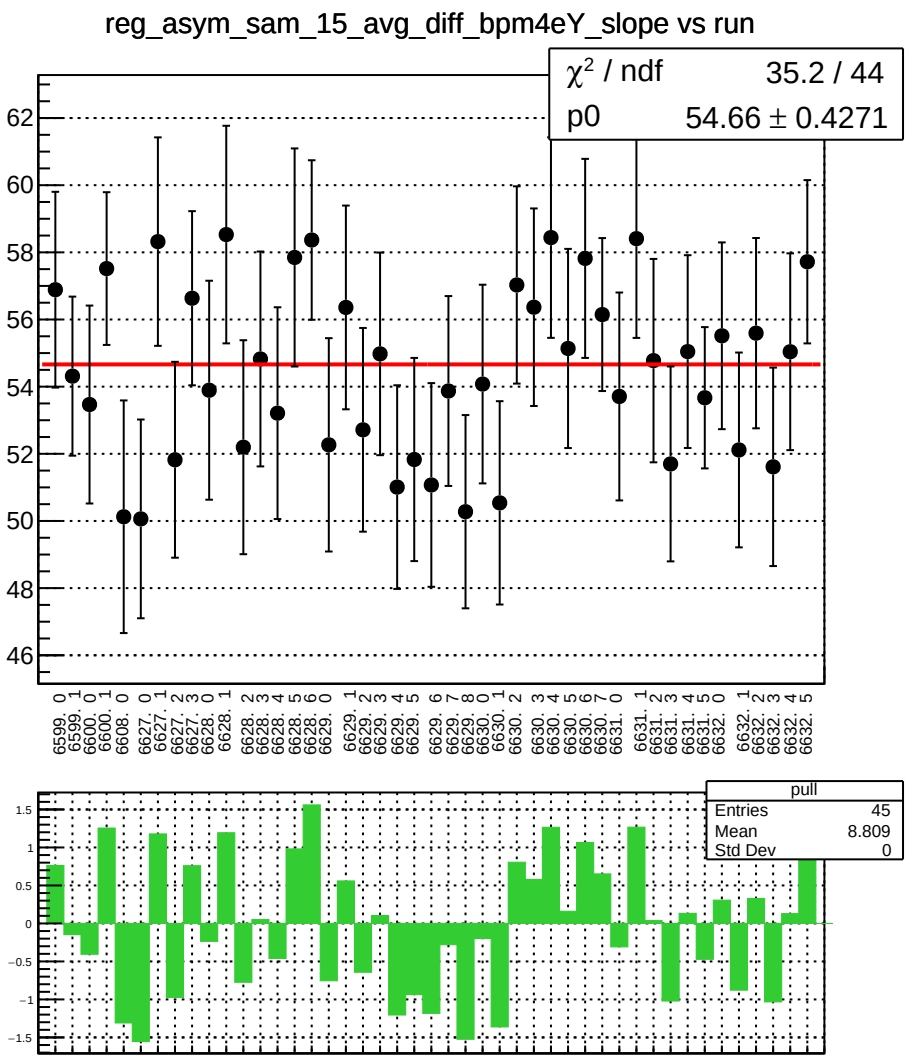

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 5.357 / 44
p0 −6.078 ± 0.5437
pull
Entries 45
Mean −264.3
Std Dev 0
pull1D
Entries 45
Mean −0.005541
Std Dev 0.345

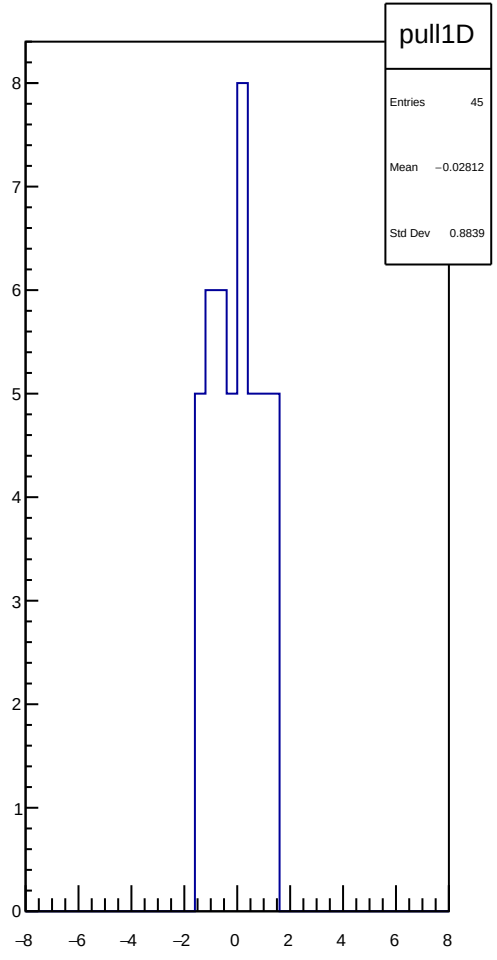

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 19.64 / 44
p0 −0.487 ± 0.3581
pull
Entries 45
Mean 139.7
Std Dev 0

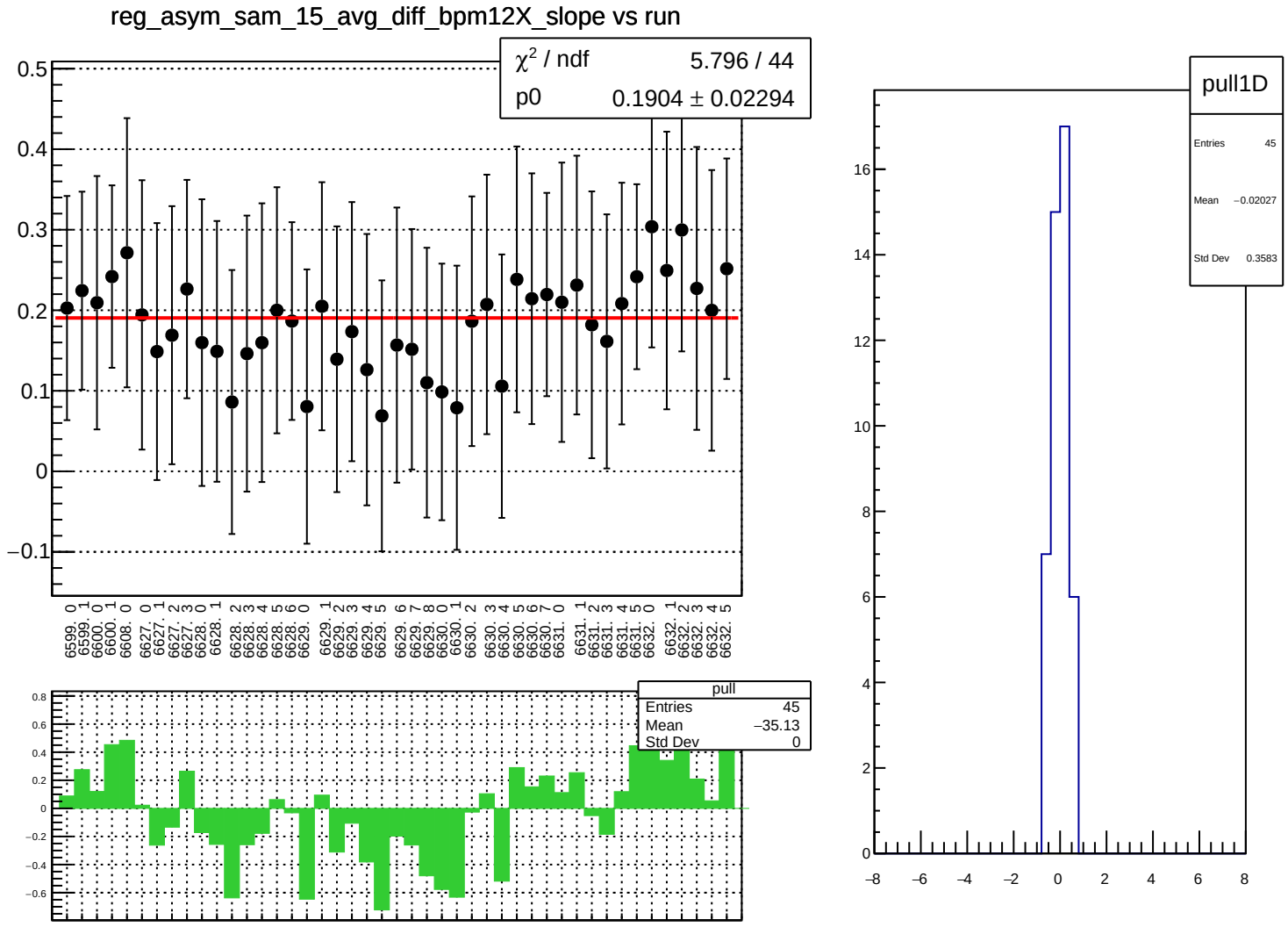

pull1D
Entries 45
Mean 0.006857
Std Dev 0.6606

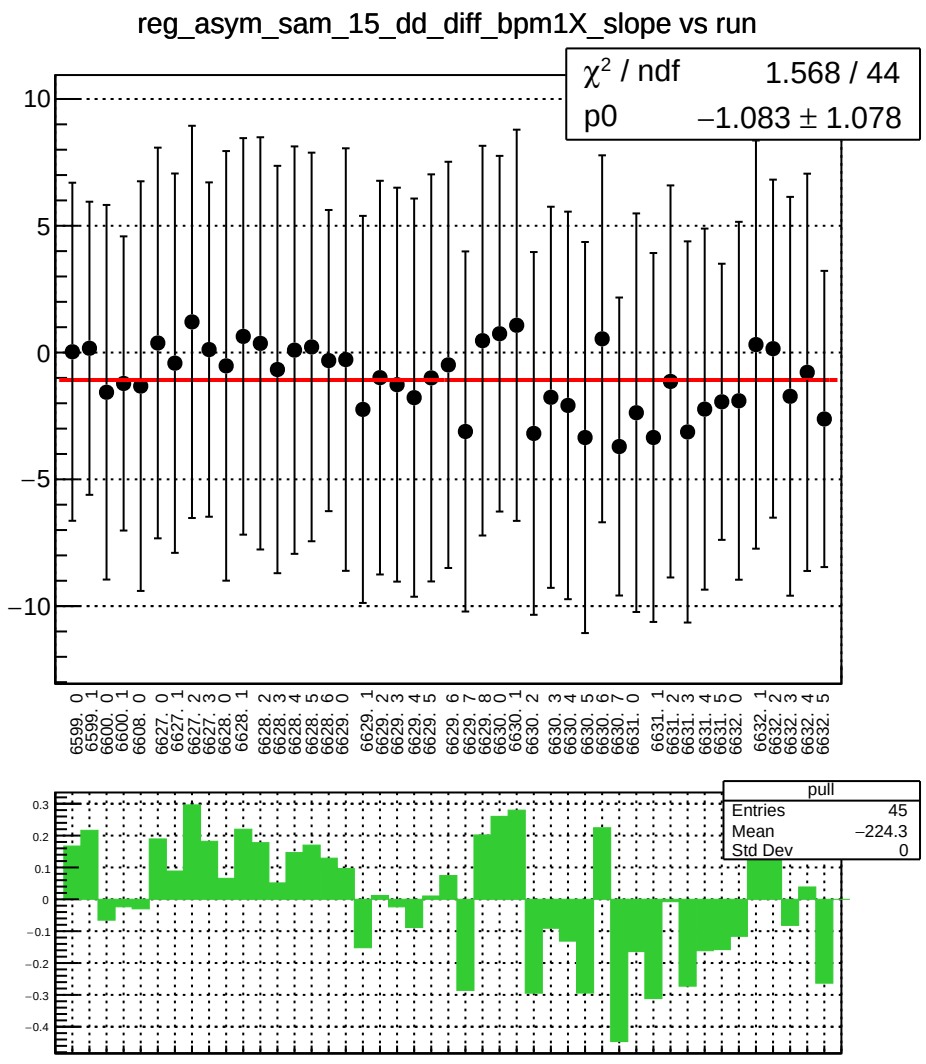

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.539 / 44
p0 2.644 ± 0.5607
pull
Entries 45
Mean −240.9
Std Dev 0

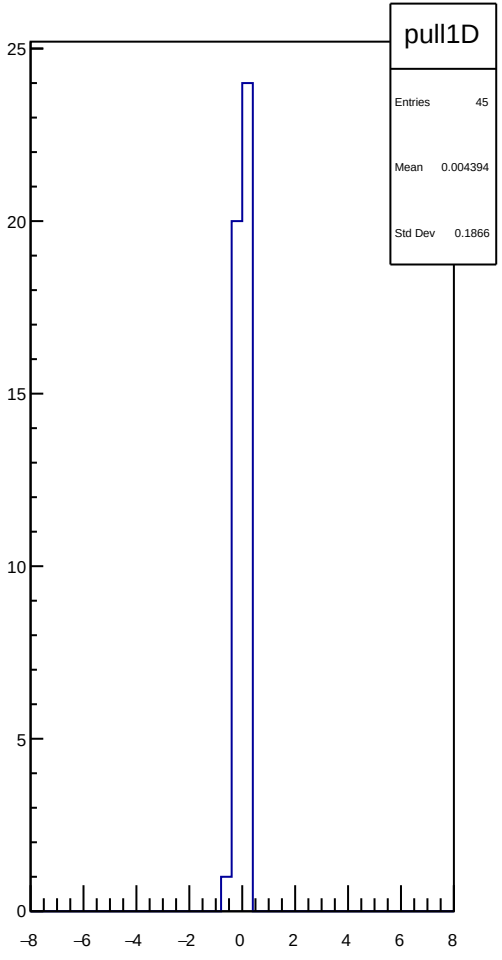

pull1D
Entries 45
Mean 0.004257
Std Dev 0.3508

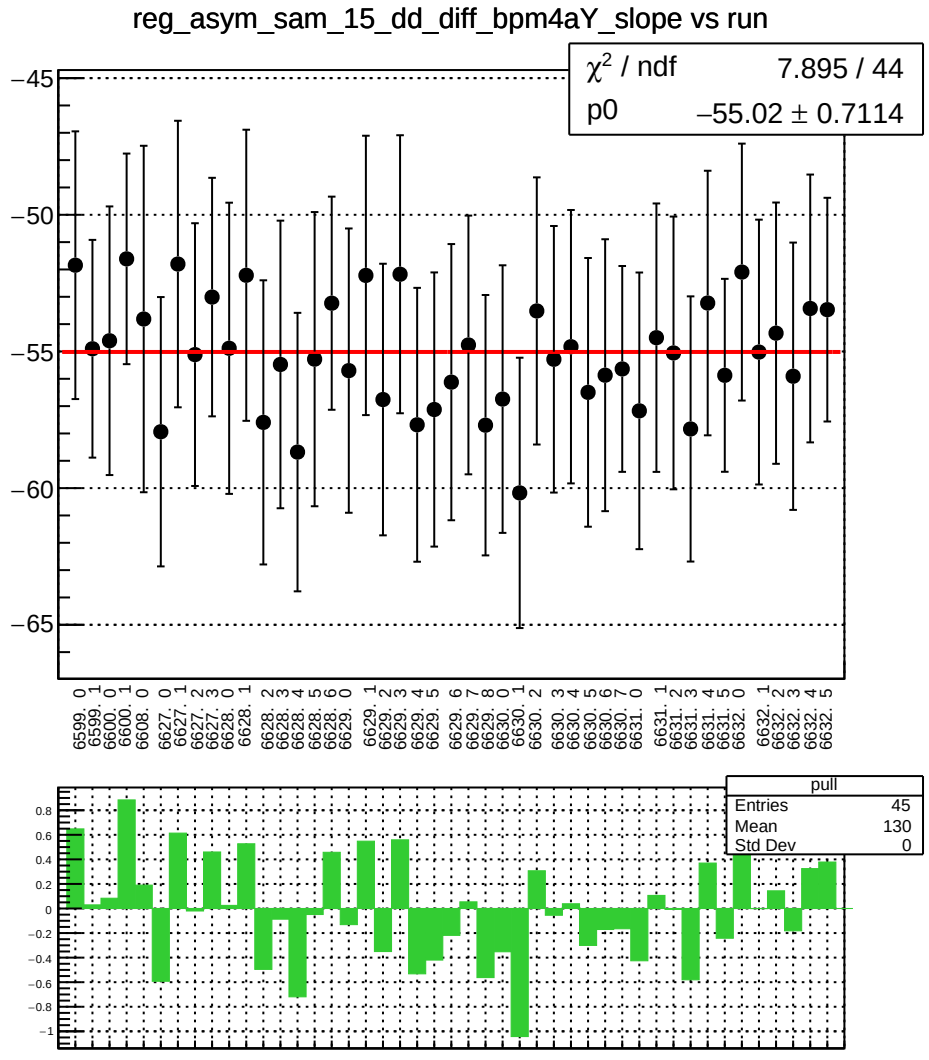

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 35.2 / 44
p0 54.66 ± 0.4271
pull
Entries 45
Mean 8.809
Std Dev 0

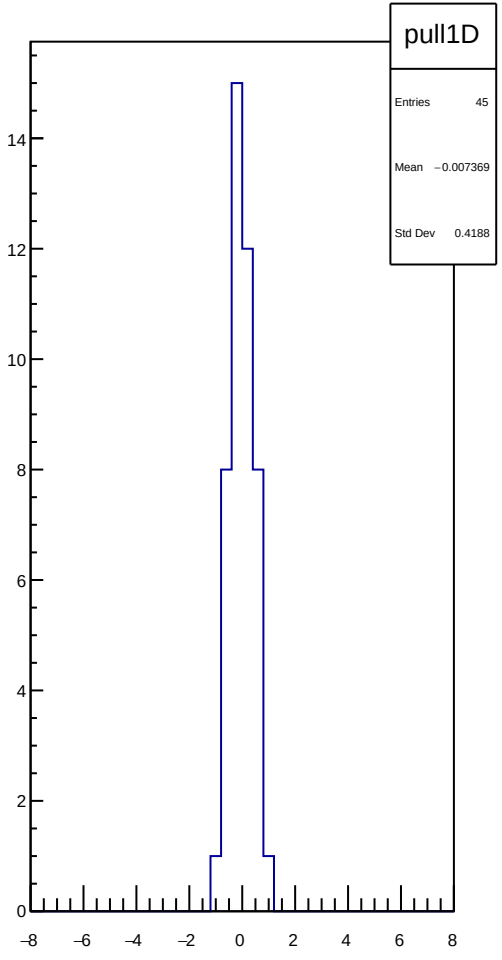

pull1D
Entries 45
Mean −0.02812
Std Dev 0.8839

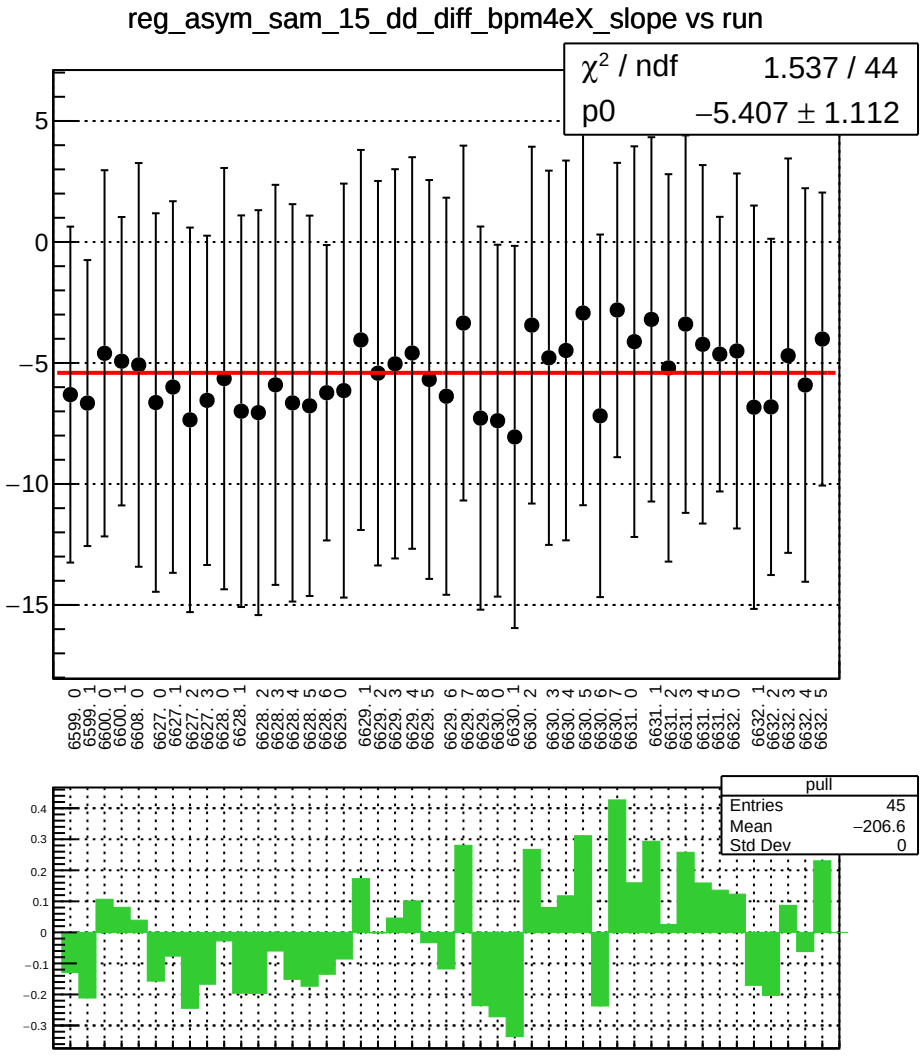

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 5.796 / 44
p0 0.1904 ± 0.02294
pull
Entries 45
Mean −35.13
Std Dev 0
pull1D
Entries 45
Mean −0.02027
Std Dev 0.3583

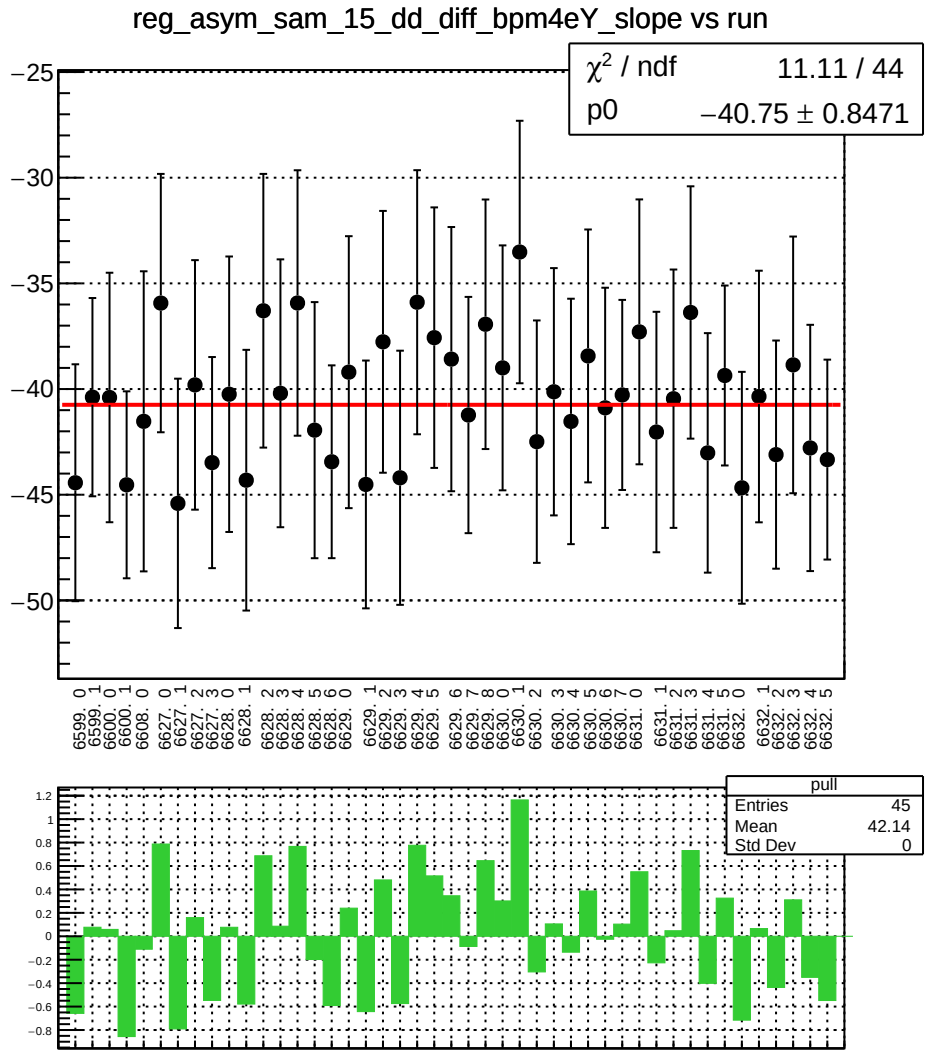

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 1.568 / 44
p0 −1.083 ± 1.078
10
5
0
−5
−10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −224.3
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

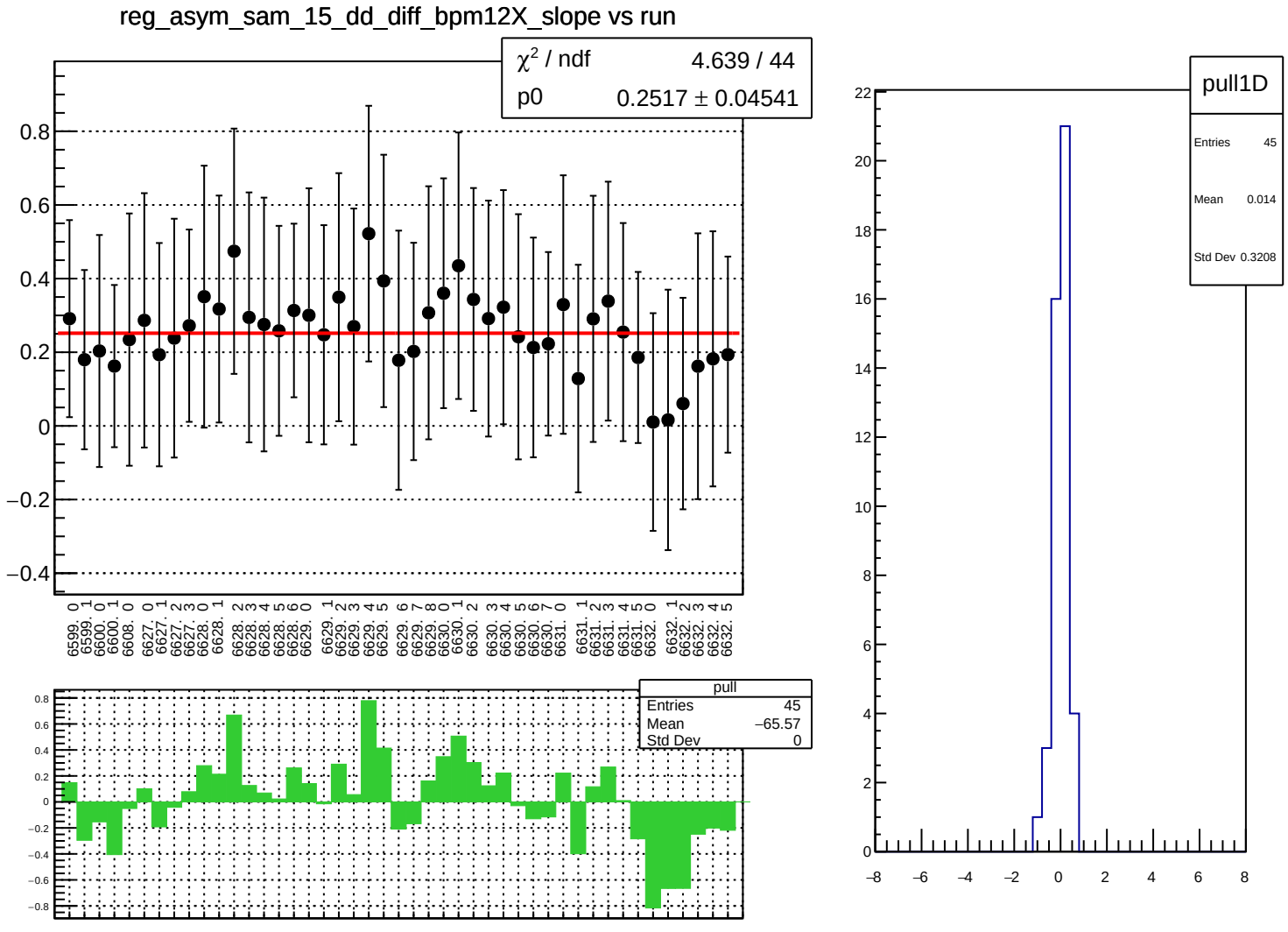

pull1D
Entries 45
Mean 0.004394
Std Dev 0.1866
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

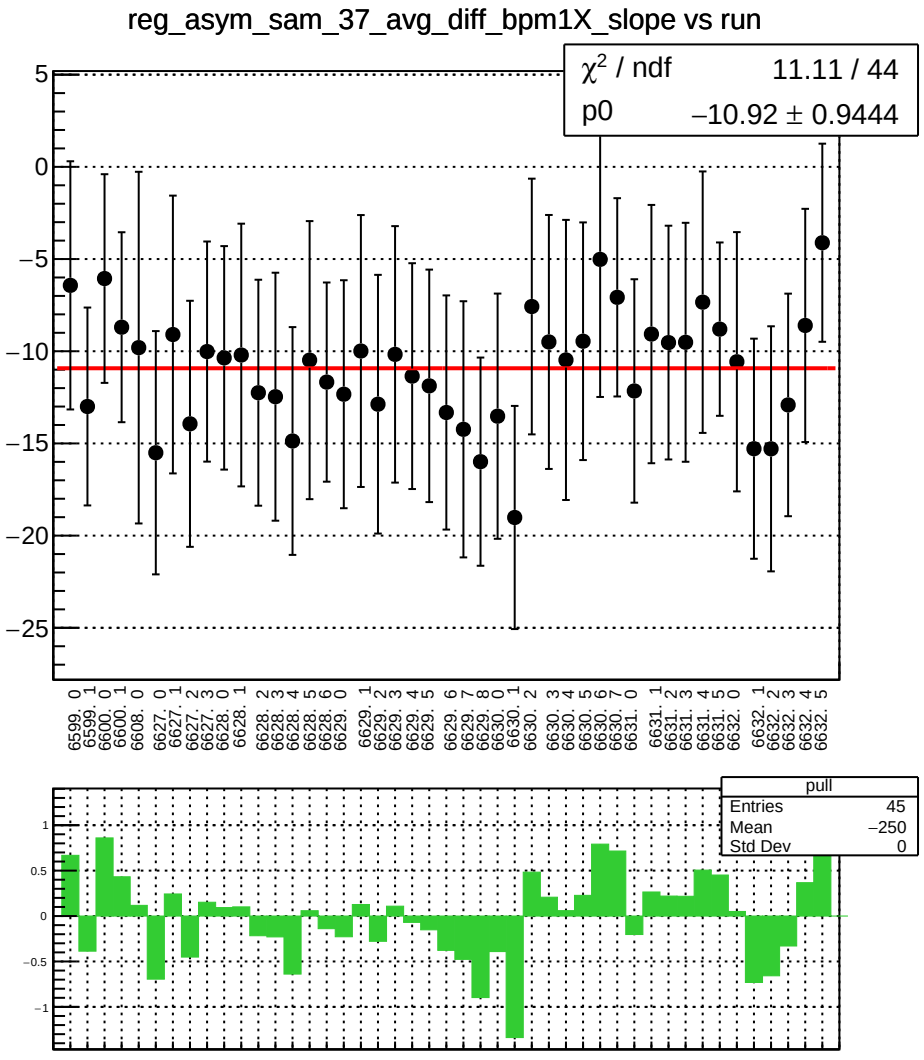

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.895 / 44
p0 −55.02 ± 0.7114
−45
−50
−55
−60
−65
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 130
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

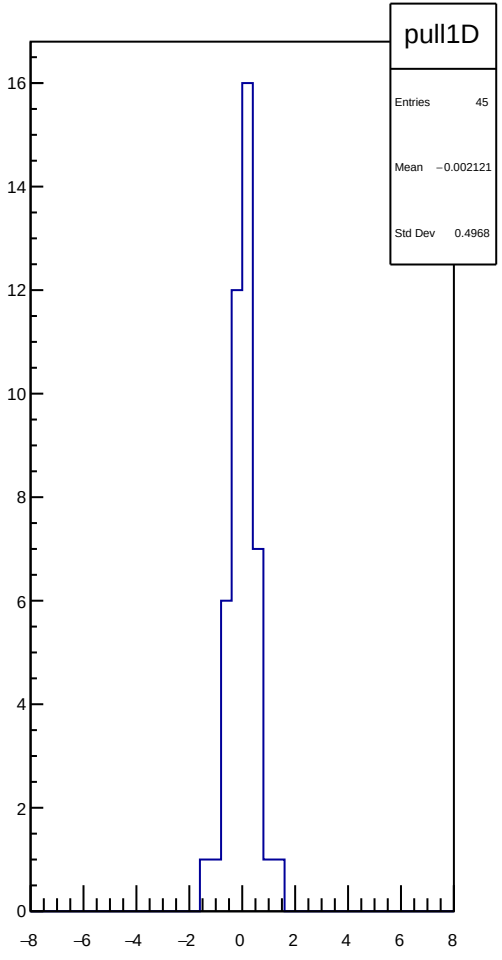

pull1D
Entries 45
Mean −0.007369
Std Dev 0.4188
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

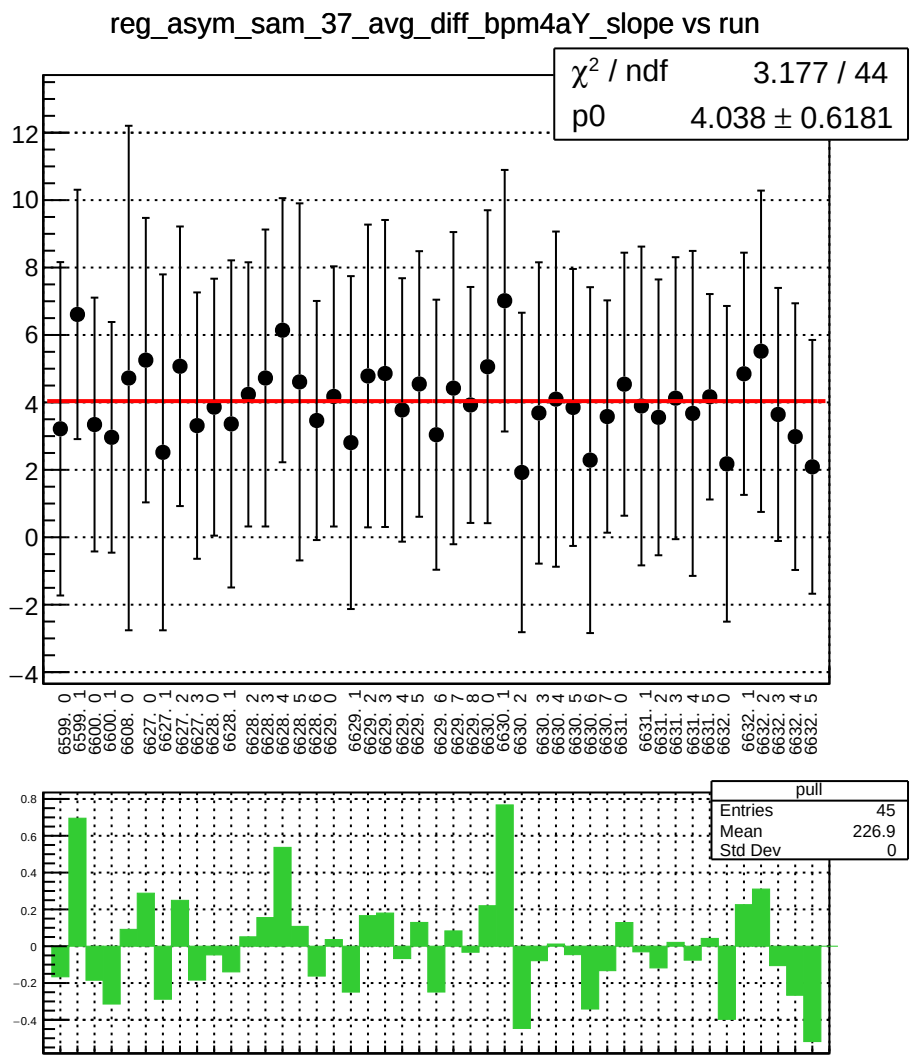

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.537 / 44
p0 −5.407 ± 1.112
5
0
−5
−10
−15
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −206.6
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 45
Mean −0.003951
Std Dev 0.1848
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

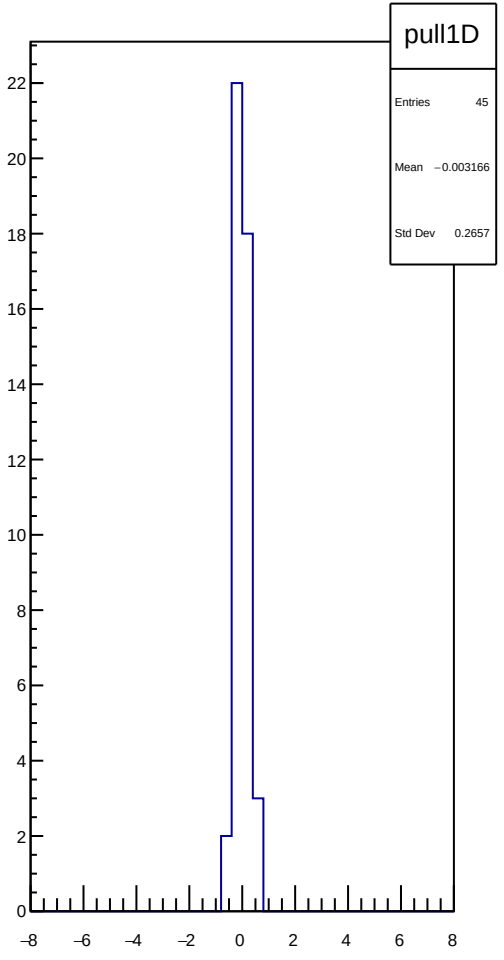

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.11 / 44
p0 −40.75 ± 0.8471
pull
Entries 45
Mean 42.14
Std Dev 0
pull1D
Entries 45
Mean 0.02269
Std Dev 0.4965

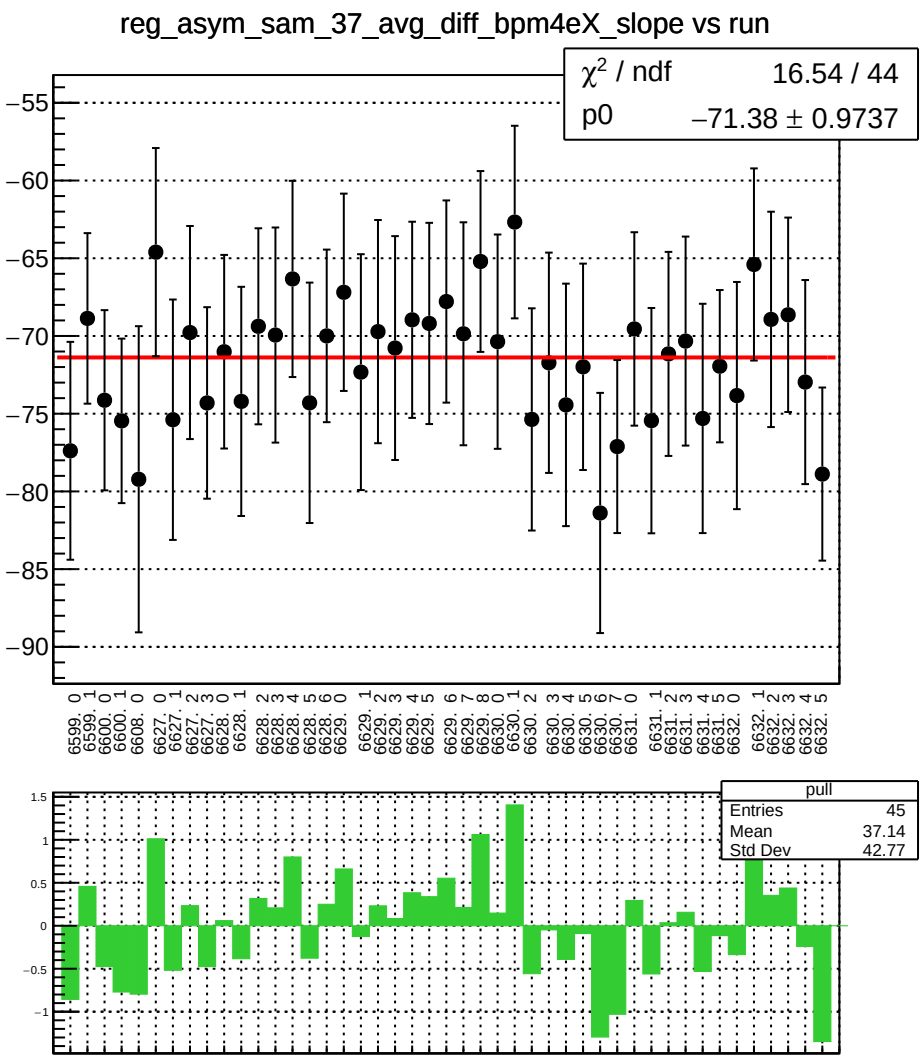

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 4.639 / 44
p0 0.2517 ± 0.04541
pull
Entries 45
Mean −65.57
Std Dev 0
pull1D
Entries 45
Mean 0.014
Std Dev 0.3208

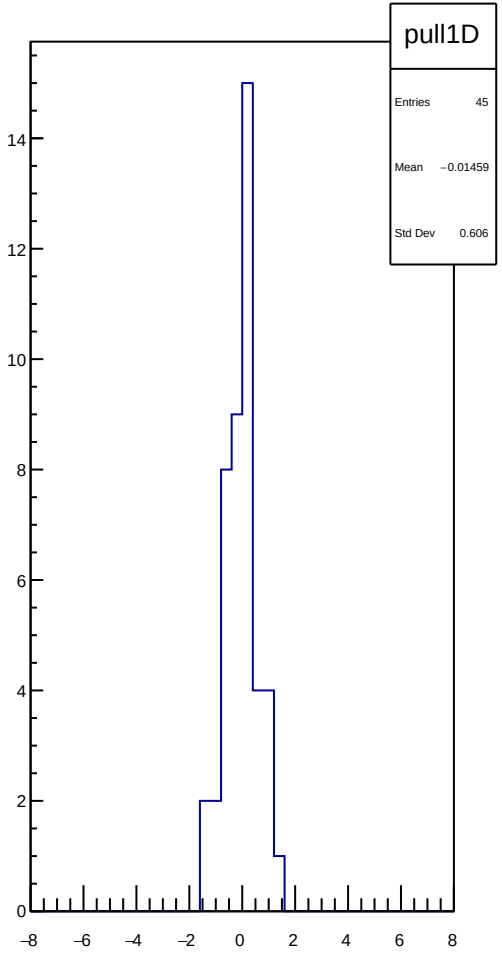

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 11.11 / 44
p0 −10.92 ± 0.9444
pull
Entries 45
Mean −250
Std Dev 0

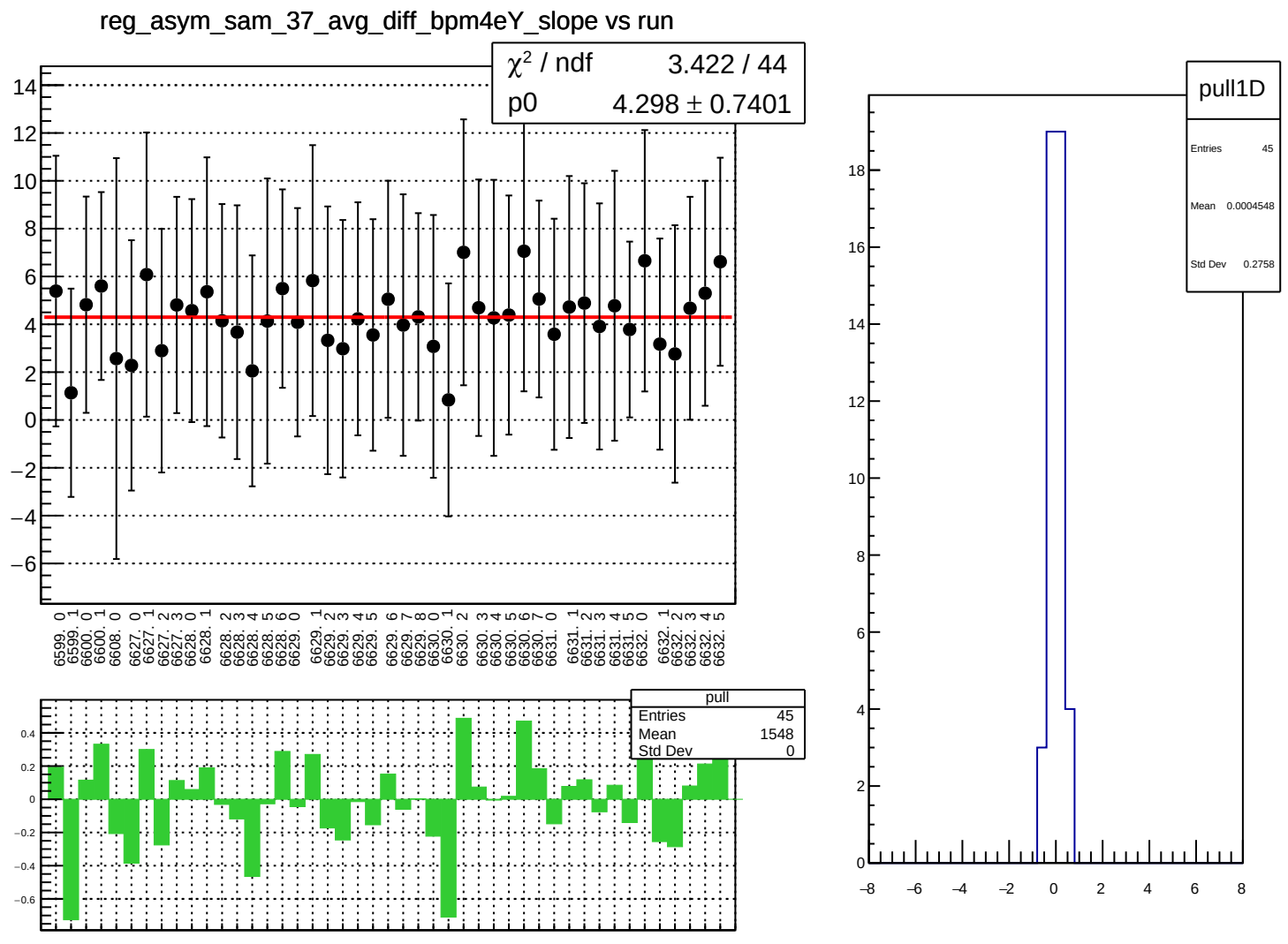

pull1D
Entries 45
Mean −0.002121
Std Dev 0.4968

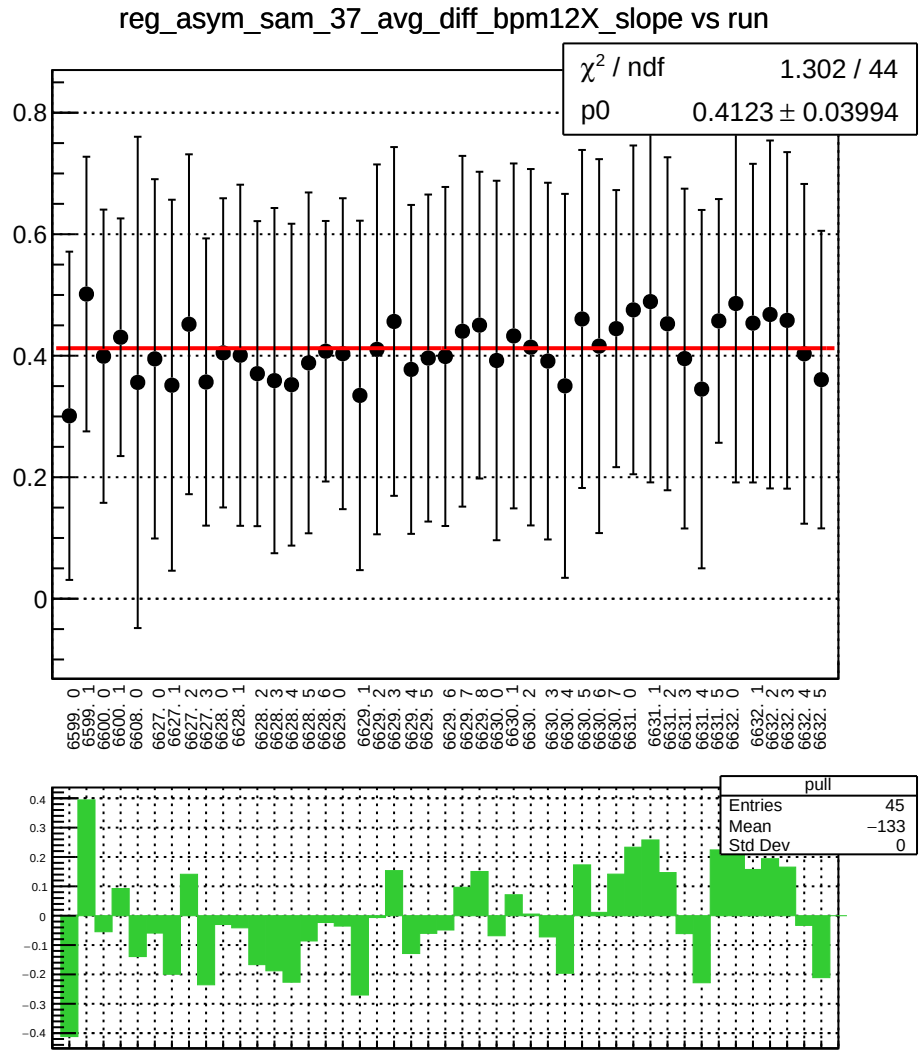

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.177 / 44
p0 4.038 ± 0.6181
pull
Entries 45
Mean 226.9
Std Dev 0

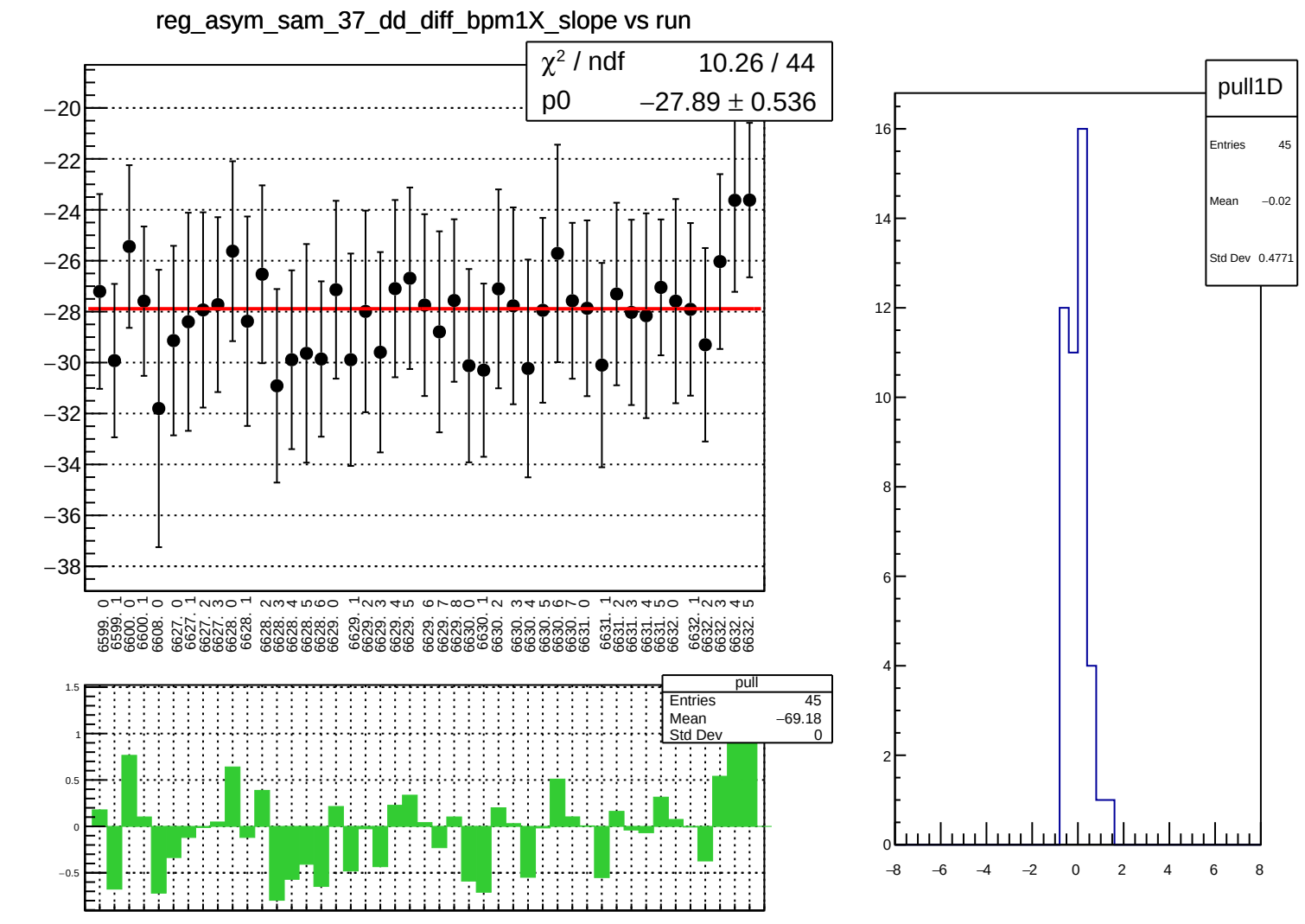

pull1D
Entries 45
Mean −0.003166
Std Dev 0.2657

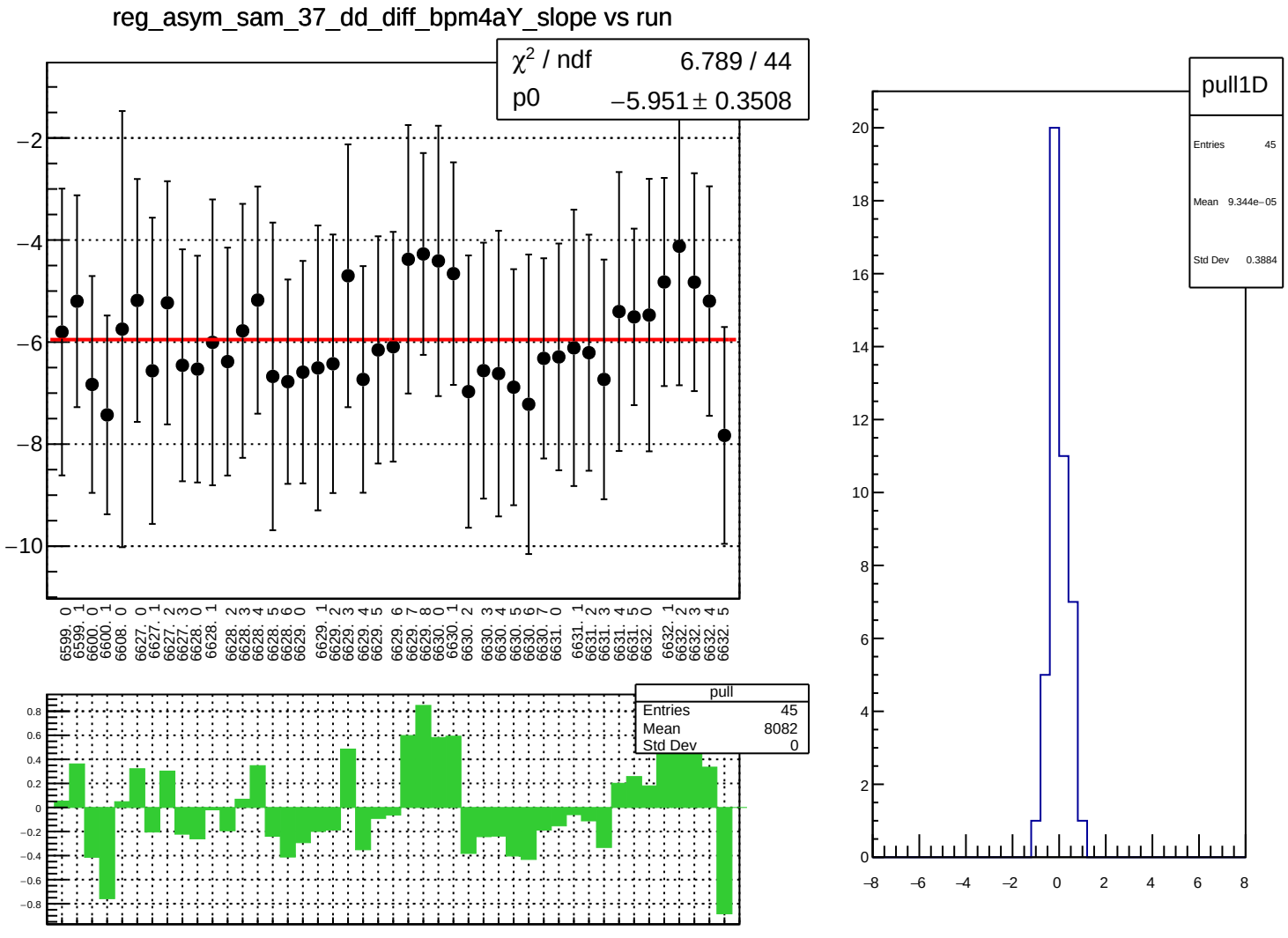

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.54 / 44
p0 −71.38 ± 0.9737
pull
Entries 45
Mean 37.14
Std Dev 42.77

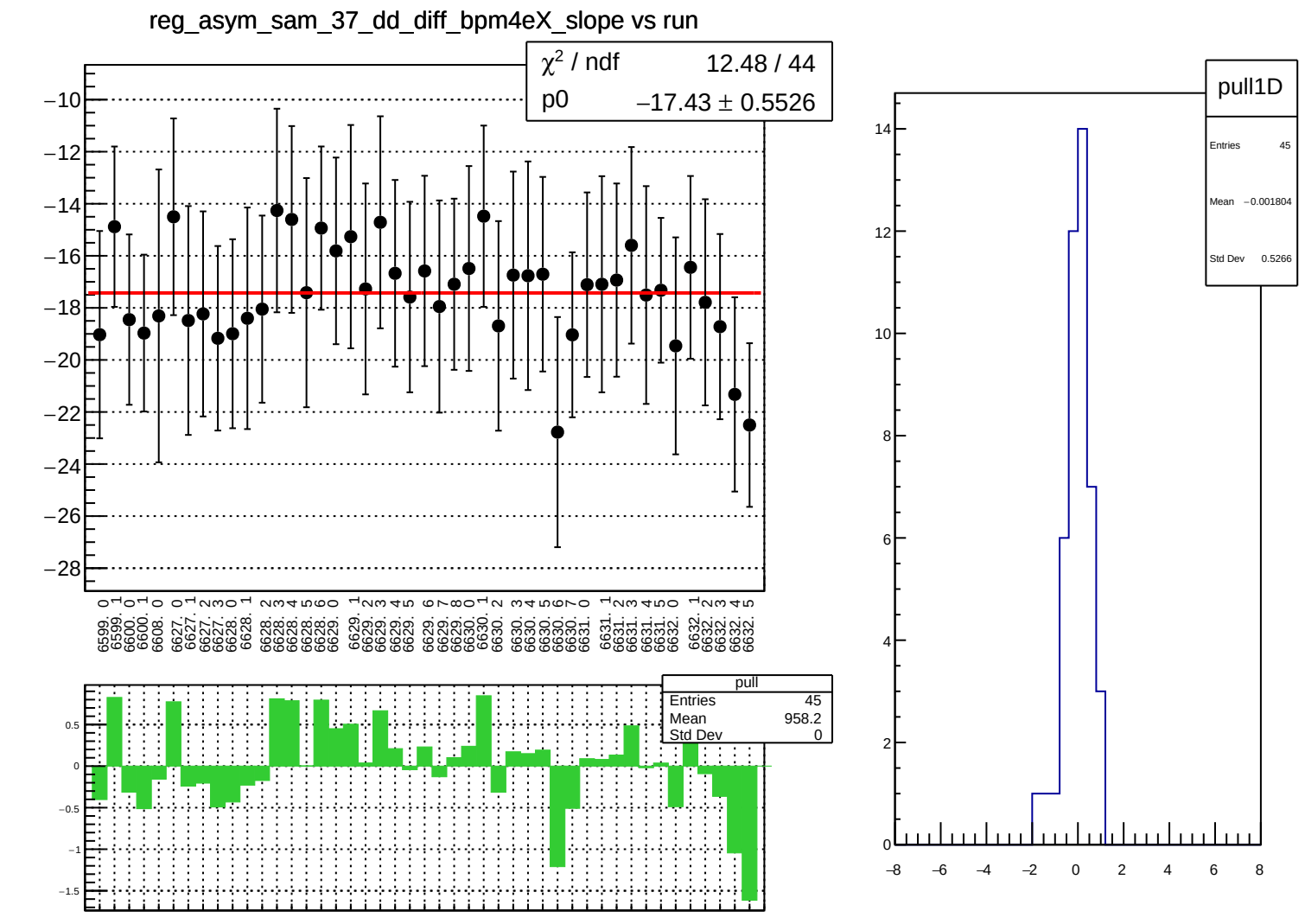

pull1D
Entries 45
Mean −0.01459
Std Dev 0.606

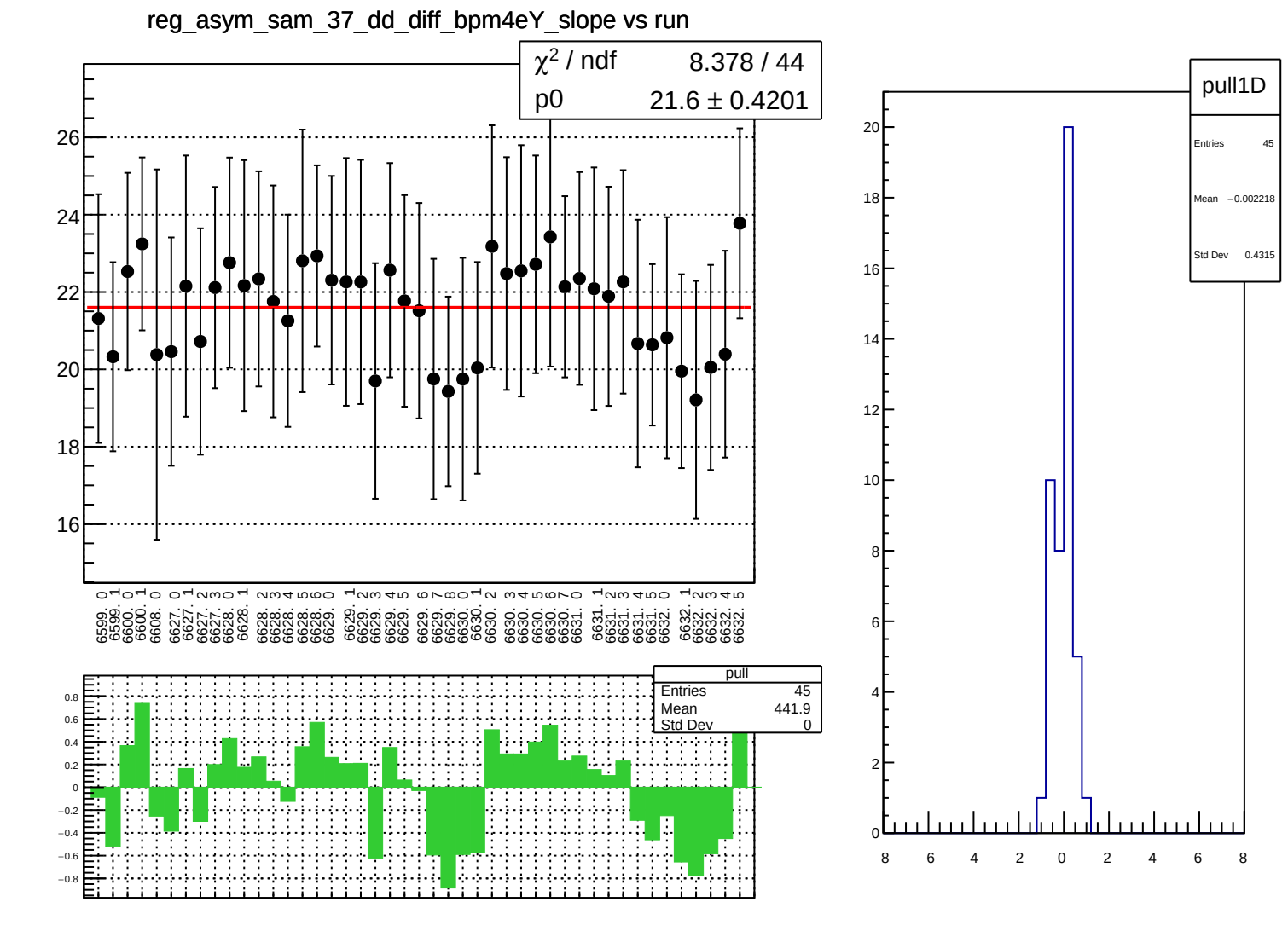

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.422 / 44
p0 4.298 ± 0.7401
pull
Entries 45
Mean 1548
Std Dev 0
pull1D
Entries 45
Mean 0.0004548
Std Dev 0.2758

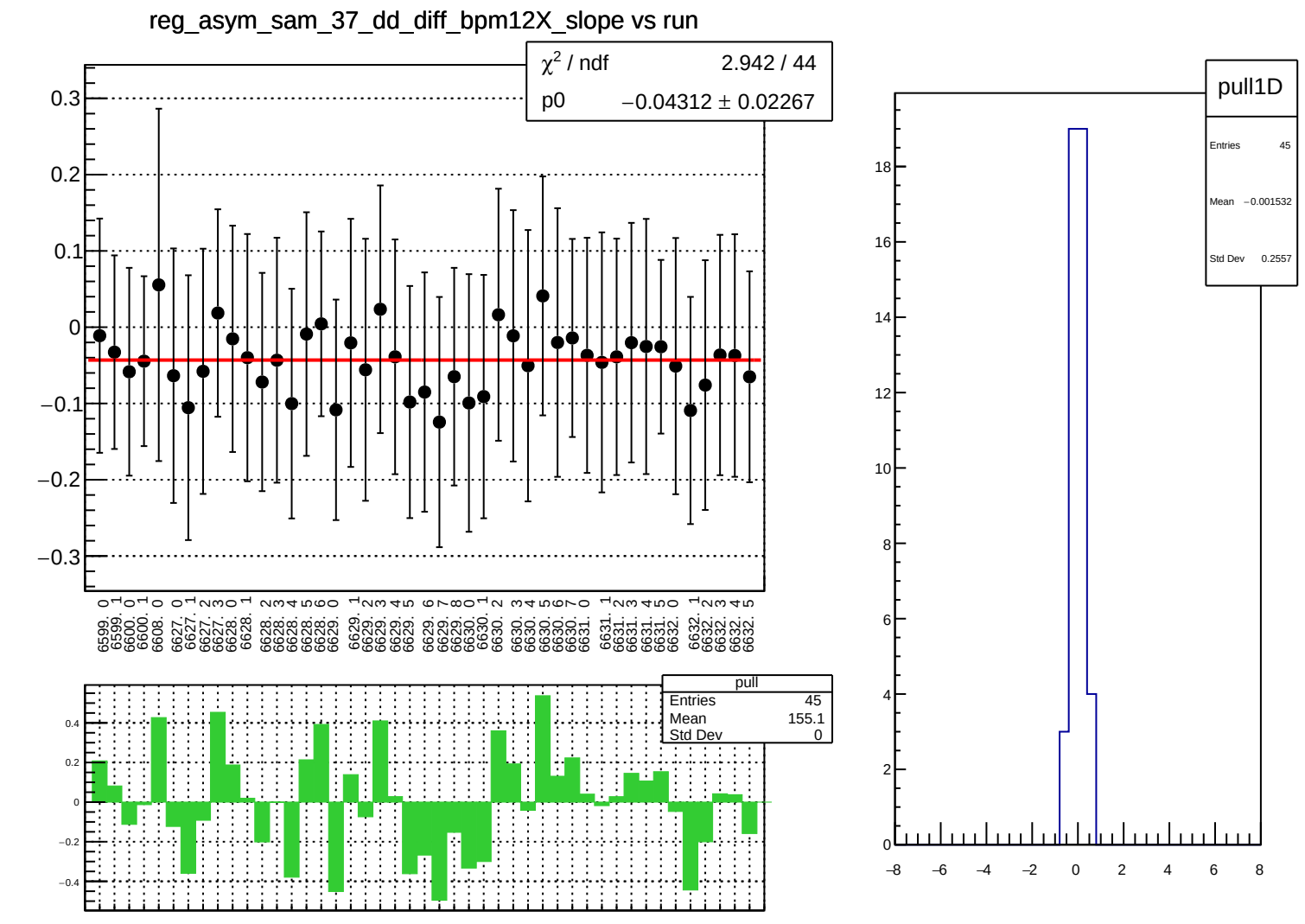

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 1.302 / 44
p0 0.4123 ± 0.03994
0.8
0.6
0.4
0.2
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −133
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 45
Mean −0.004879
Std Dev 0.17
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

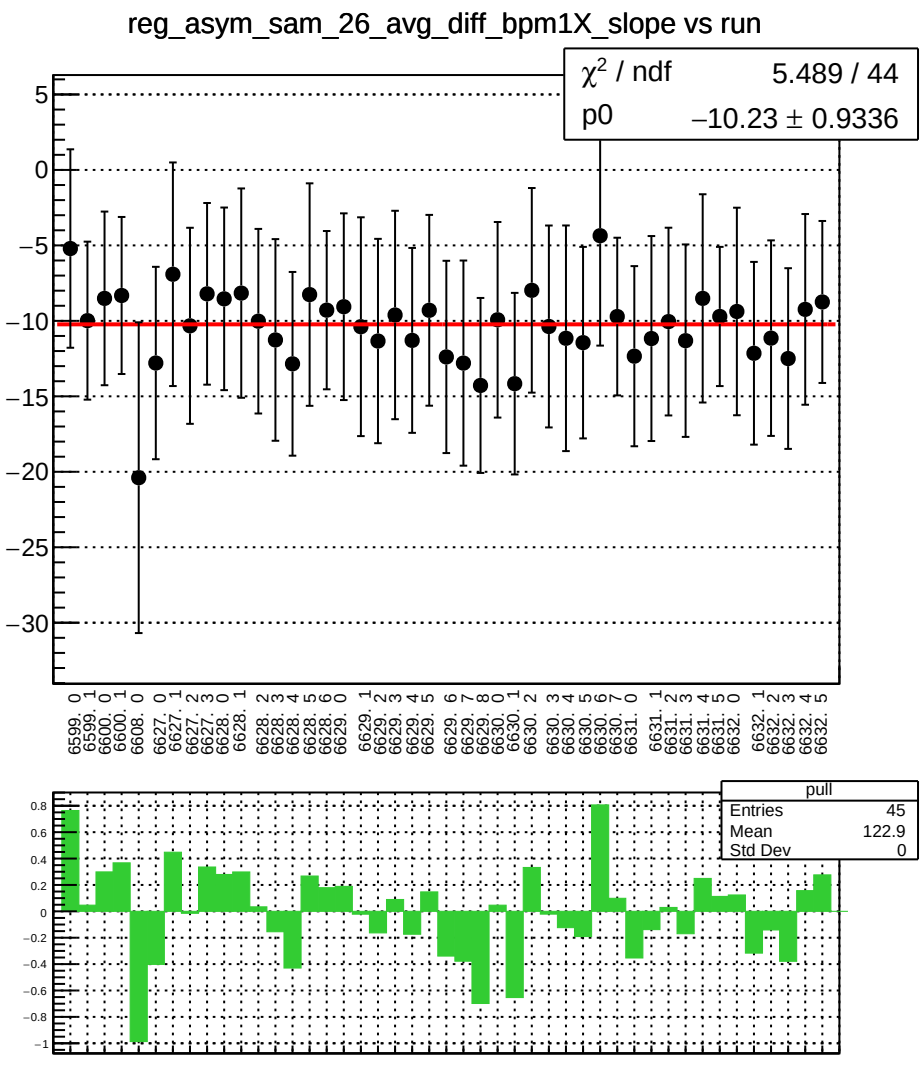

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 10.26 / 44
p0 −27.89 ± 0.536
pull
Entries 45
Mean −69.18
Std Dev 0
pull1D
Entries 45
Mean −0.02
Std Dev 0.4771

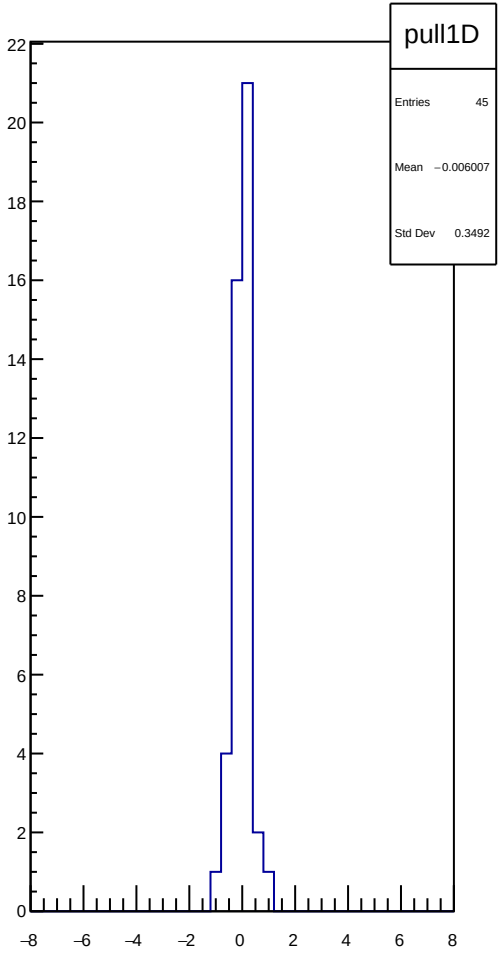

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.789 / 44
p0 −5.951 ± 0.3508
−2
−4
−6
−8
−10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 8082
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean 9.344e−05
Std Dev 0.3884
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

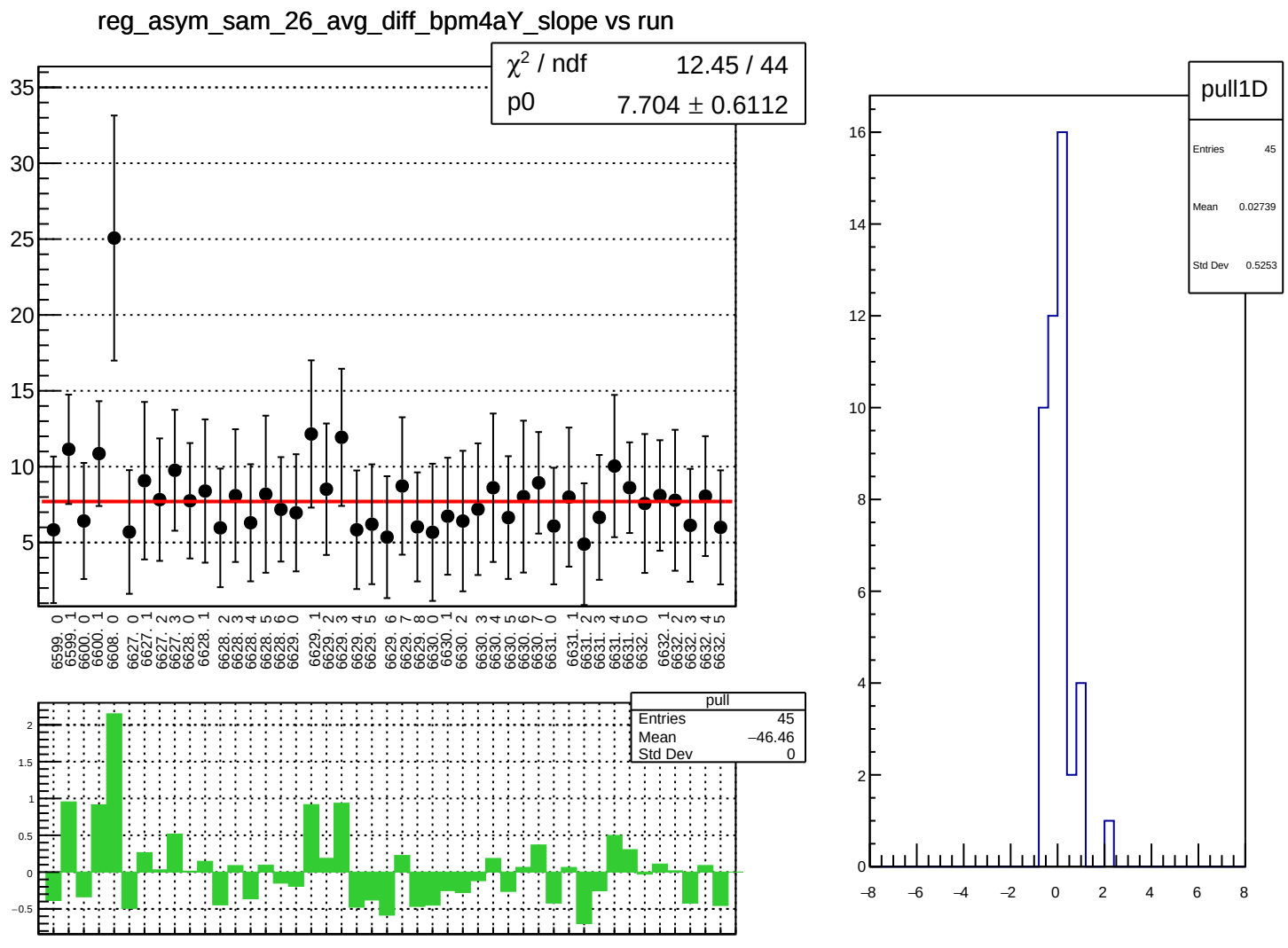

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.48 / 44
p0 −17.43 ± 0.5526
pull
Entries 45
Mean 958.2
Std Dev 0
pull1D
Entries 45
Mean −0.001804
Std Dev 0.5266

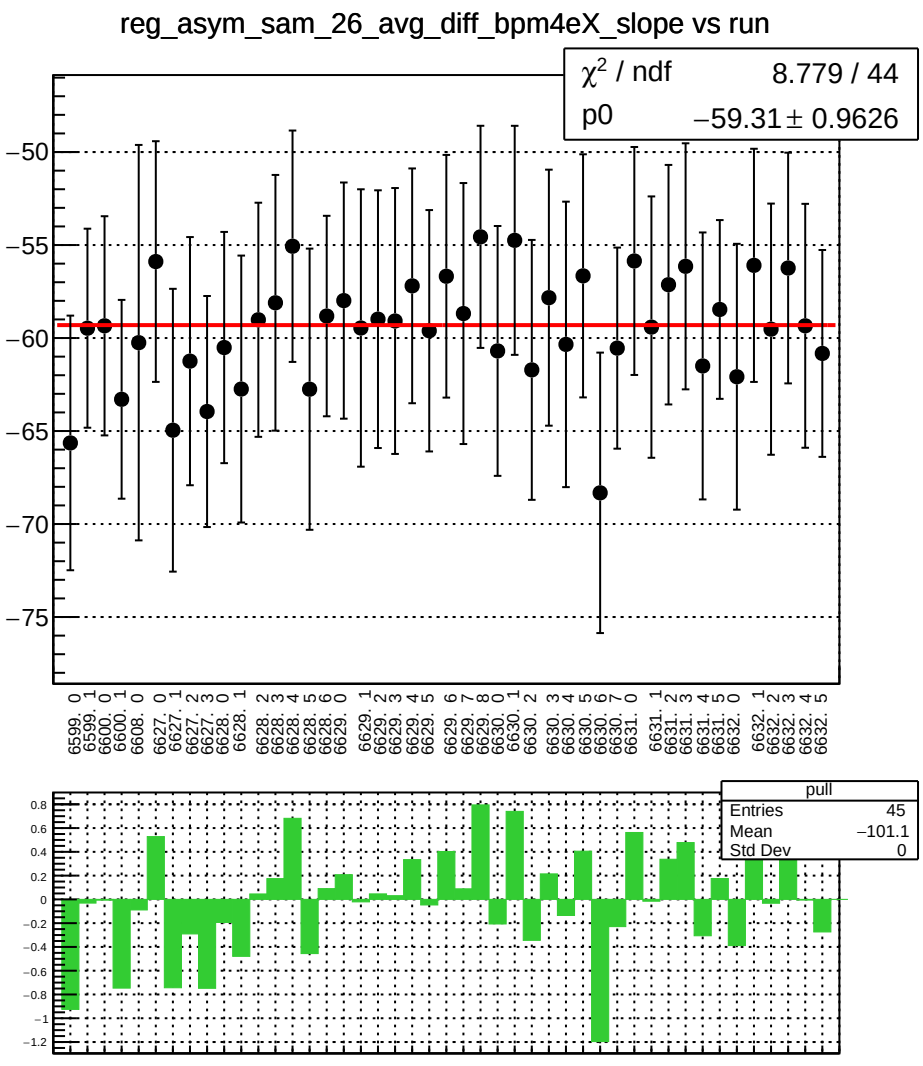

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.378 / 44
p0 21.6 ± 0.4201
pull
Entries 45
Mean 441.9
Std Dev 0
pull1D
Entries 45
Mean −0.002218
Std Dev 0.4315

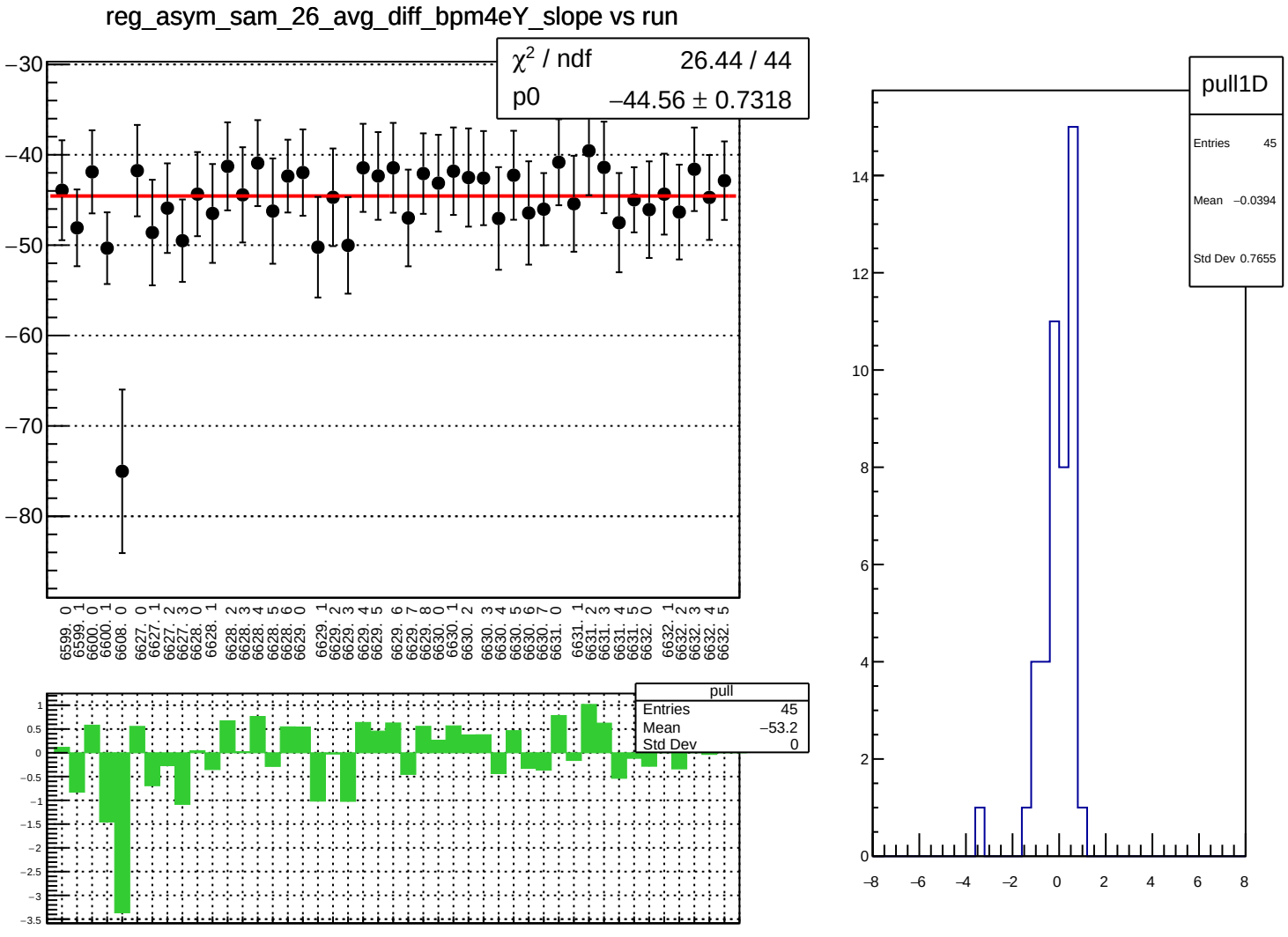

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 2.942 / 44
p0 −0.04312 ± 0.02267
pull
Entries 45
Mean 155.1
Std Dev 0
pull1D
Entries 45
Mean −0.001532
Std Dev 0.2557

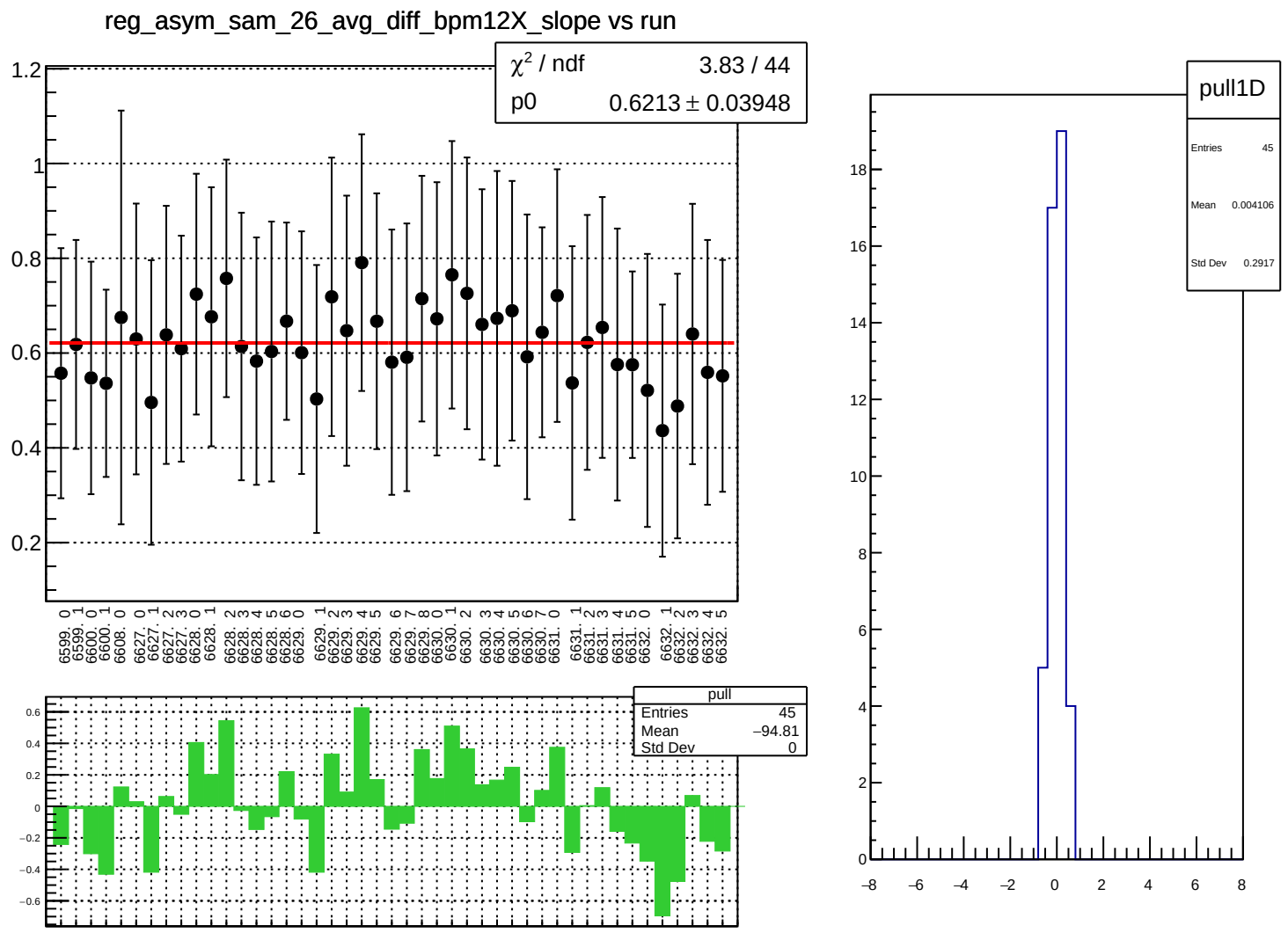

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 5.489 / 44
p0 −10.23 ± 0.9336
pull
Entries 45
Mean 122.9
Std Dev 0

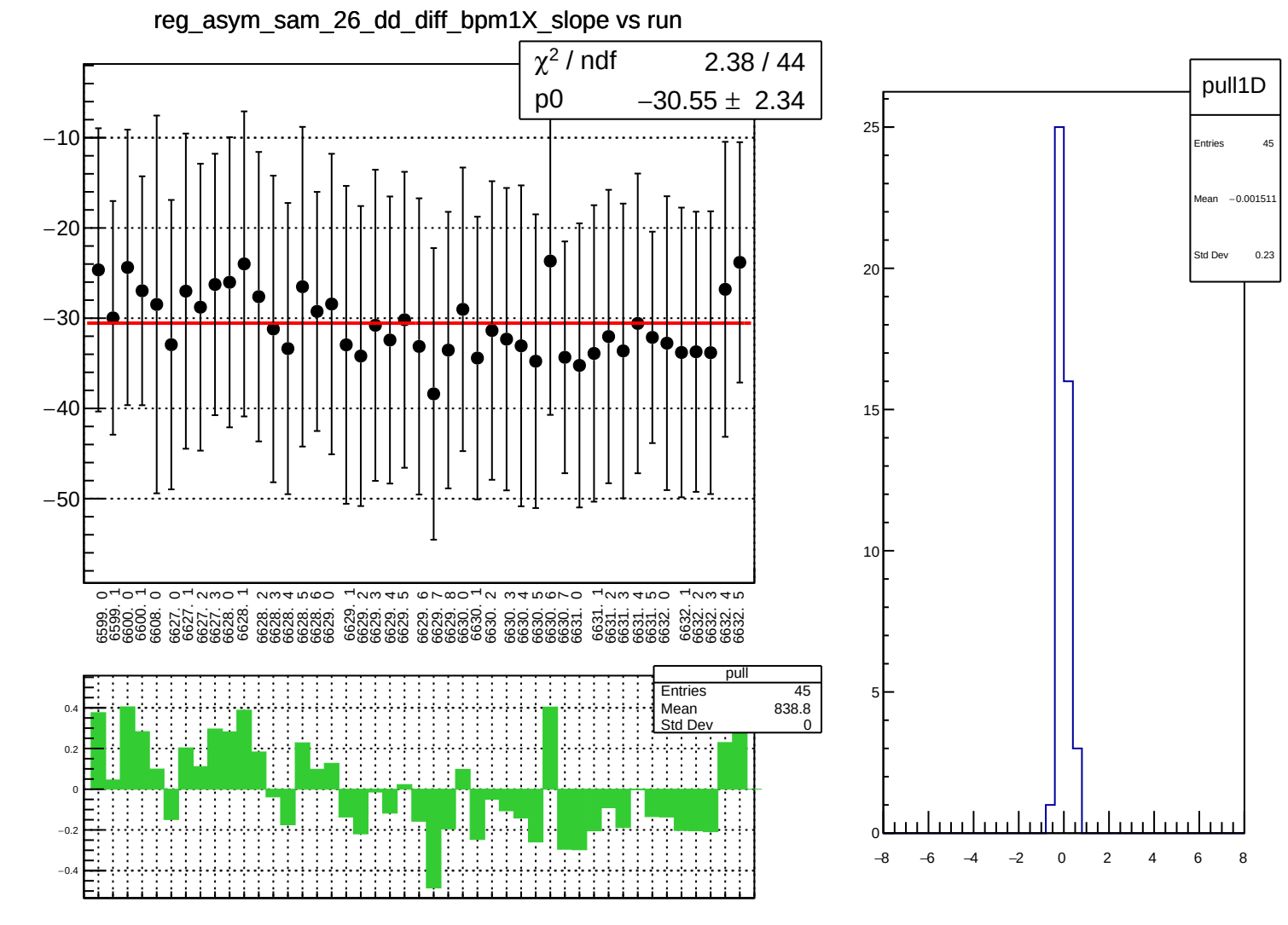

pull1D
Entries 45
Mean −0.006007
Std Dev 0.3492

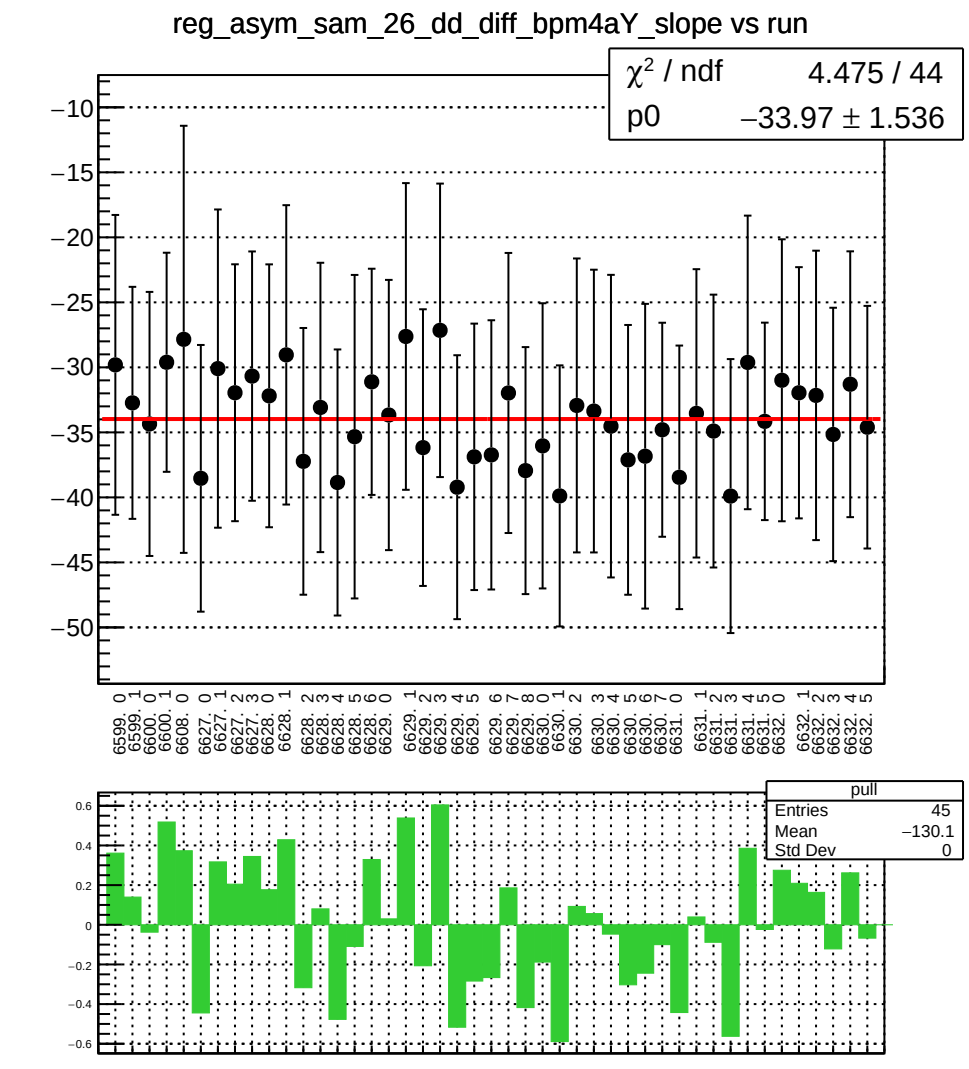

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.45 / 44
p0 7.704 ± 0.6112
pull
Entries 45
Mean −46.46
Std Dev 0
pull1D
Entries 45
Mean 0.02739
Std Dev 0.5253

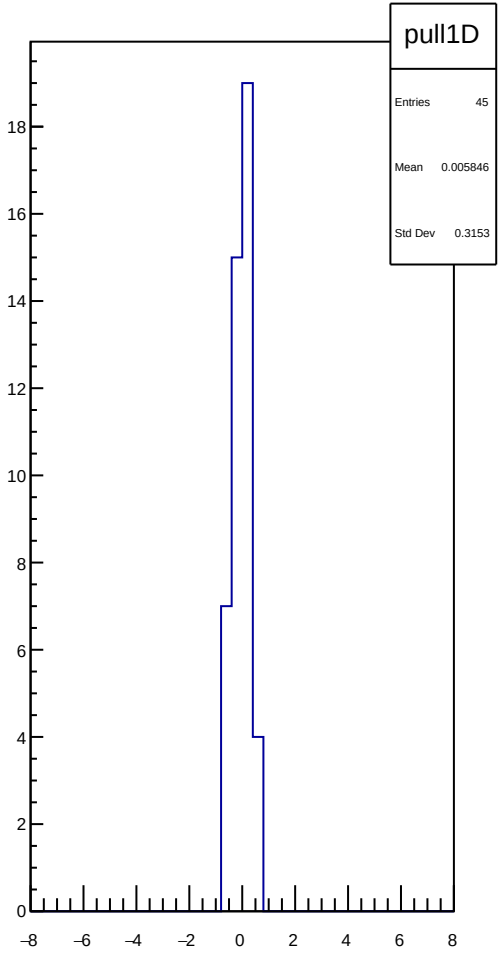

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.779 / 44
p0 −59.31 ± 0.9626
−50
−55
−60
−65
−70
−75
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −101.1
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 45
Mean −0.01248
Std Dev 0.4415
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

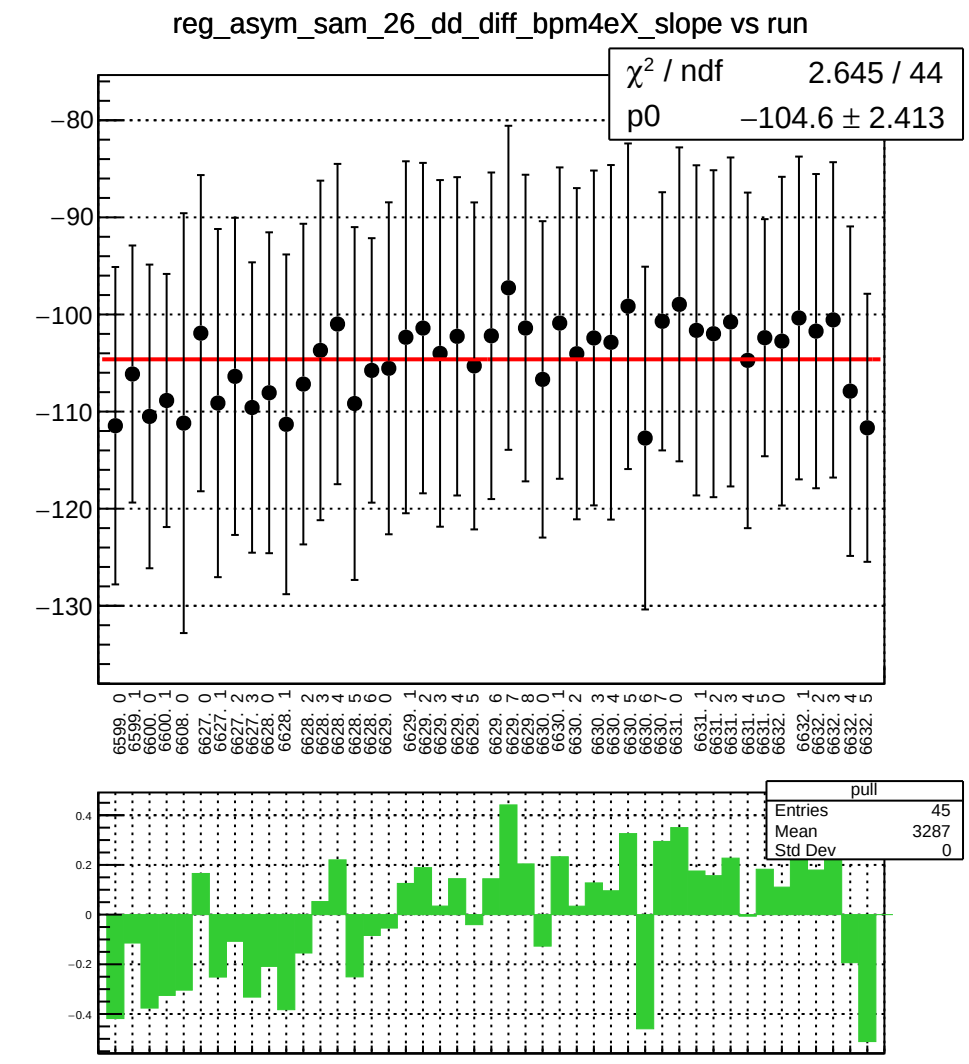

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 26.44 / 44
p0 −44.56 ± 0.7318
pull
Entries 45
Mean −53.2
Std Dev 0
pull1D
Entries 45
Mean −0.0394
Std Dev 0.7655

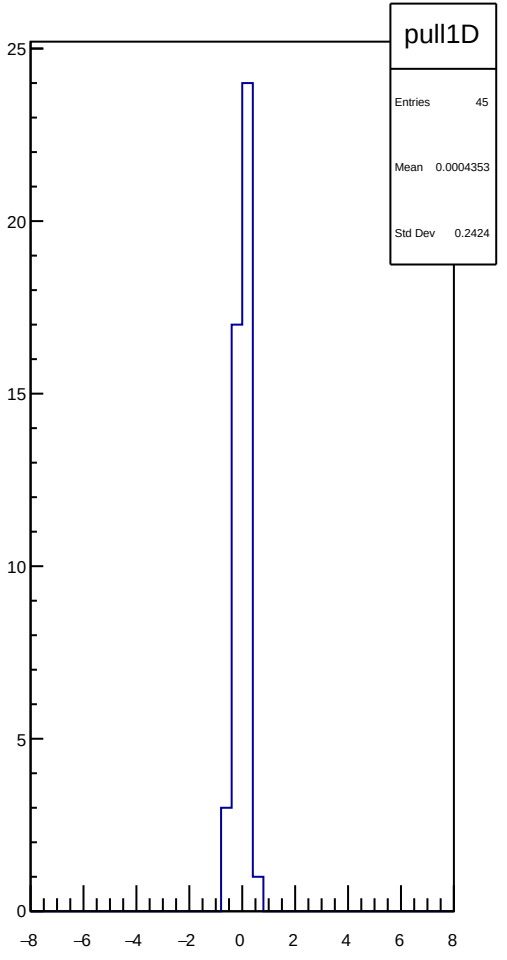

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 3.83 / 44
p0 0.6213 ± 0.03948
1.2
1
0.8
0.6
0.4
0.2
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −94.81
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 45
Mean 0.004106
Std Dev 0.2917
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

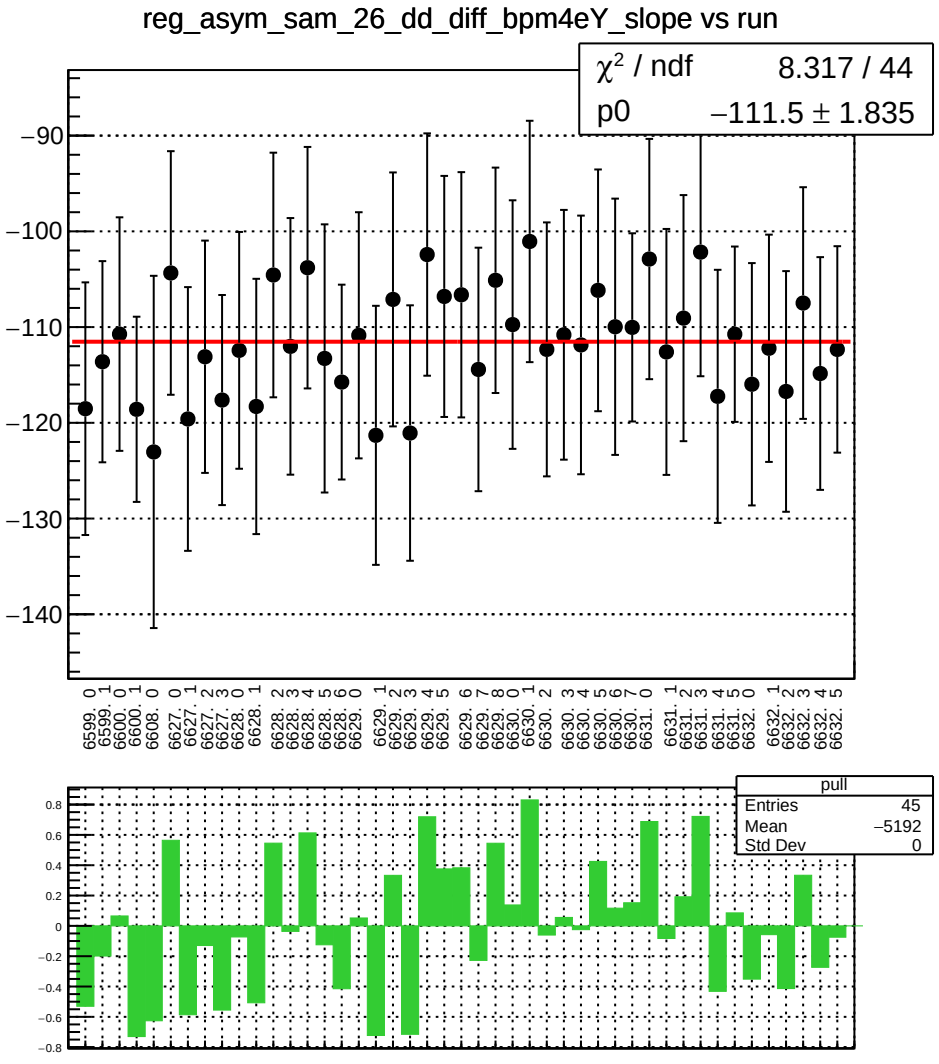

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 2.38 / 44
p0 −30.55 ± 2.34
−10
−20
−30
−40
−50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 838.8
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 45
Mean −0.001511
Std Dev 0.23
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

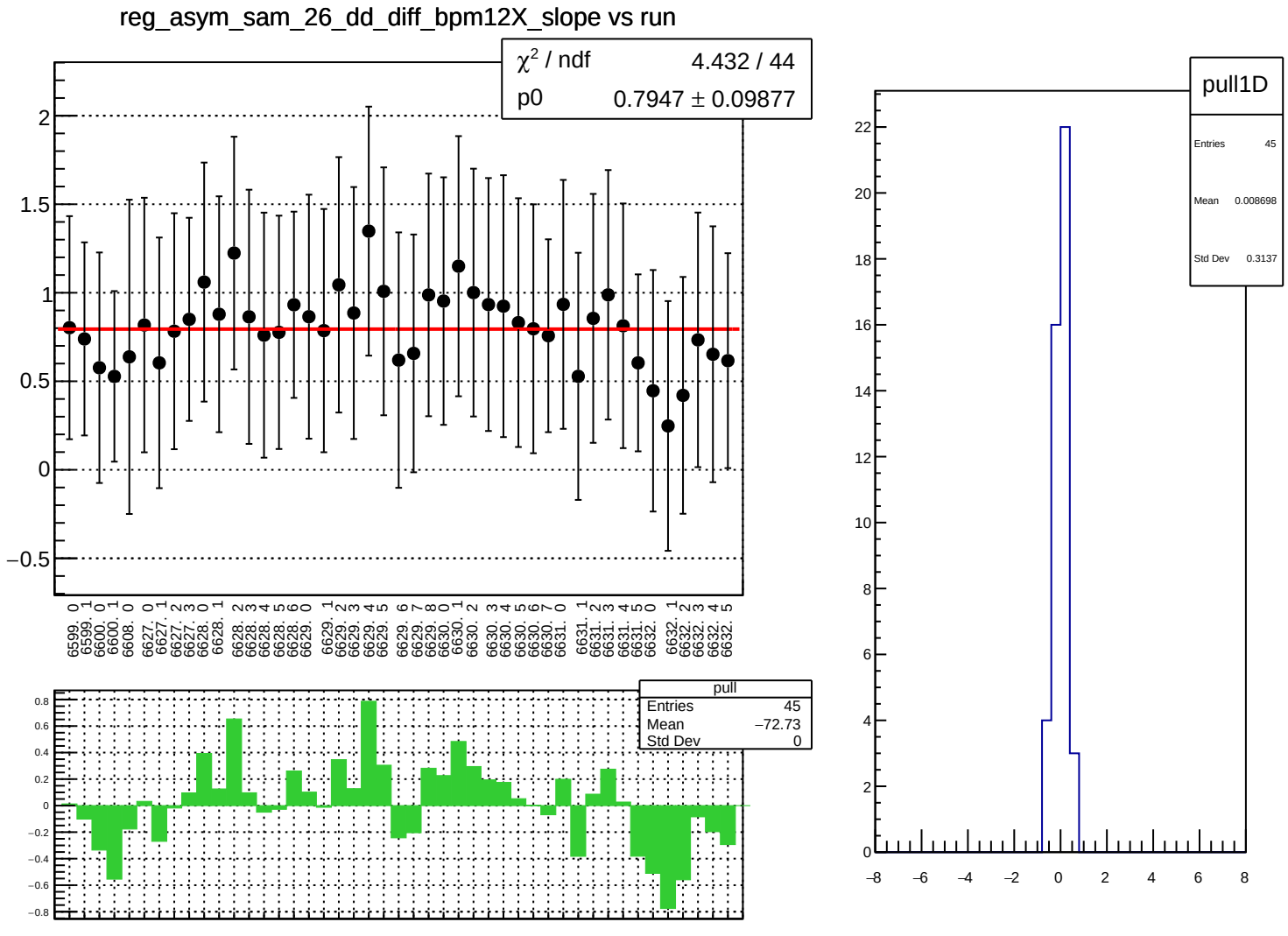

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.475 / 44
p0 −33.97 ± 1.536
pull
Entries 45
Mean −130.1
Std Dev 0

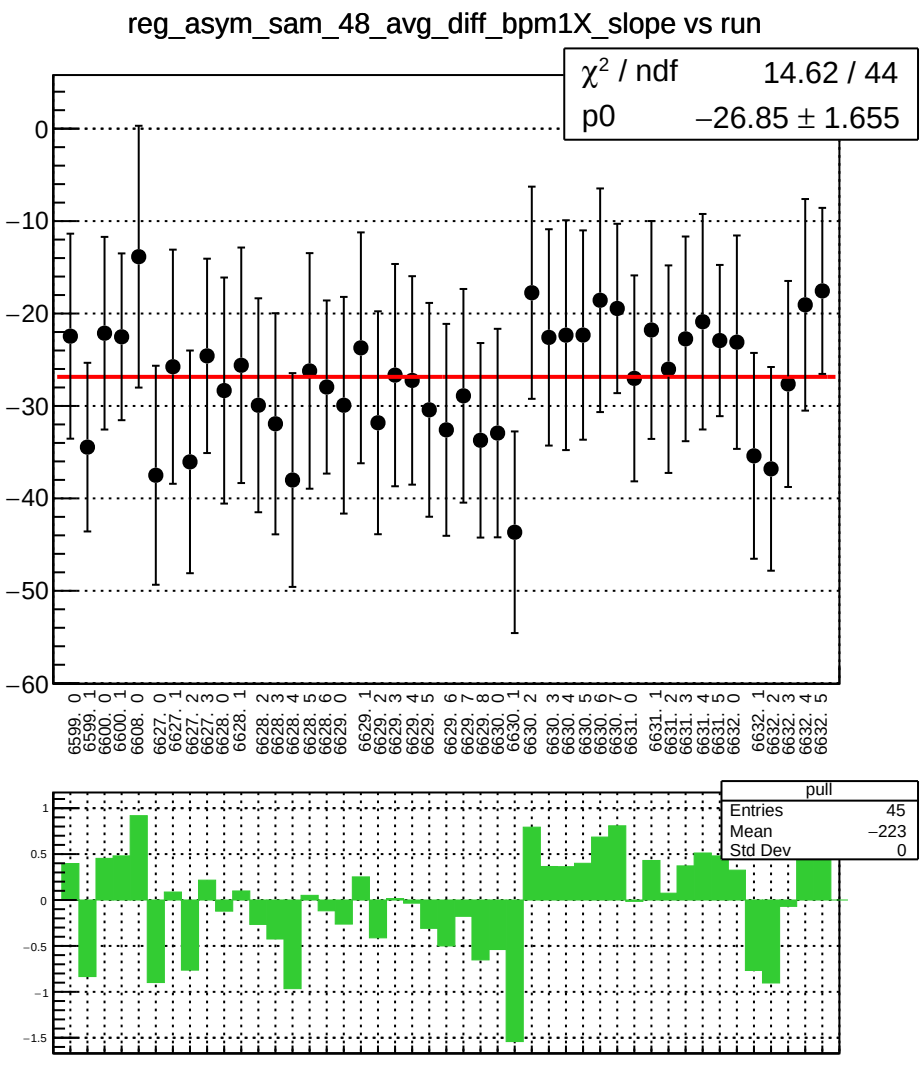

pull1D
Entries 45
Mean 0.005846
Std Dev 0.3153

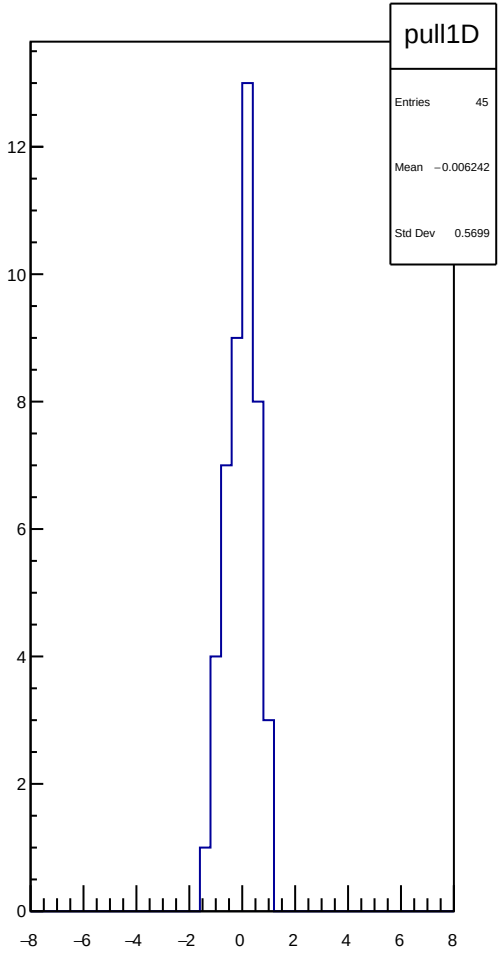

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.645 / 44
p0 −104.6 ± 2.413
−80
−90
−100
−110
−120
−130
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 3287
Std Dev 0
0.4
0.2
0
−0.2
−0.4

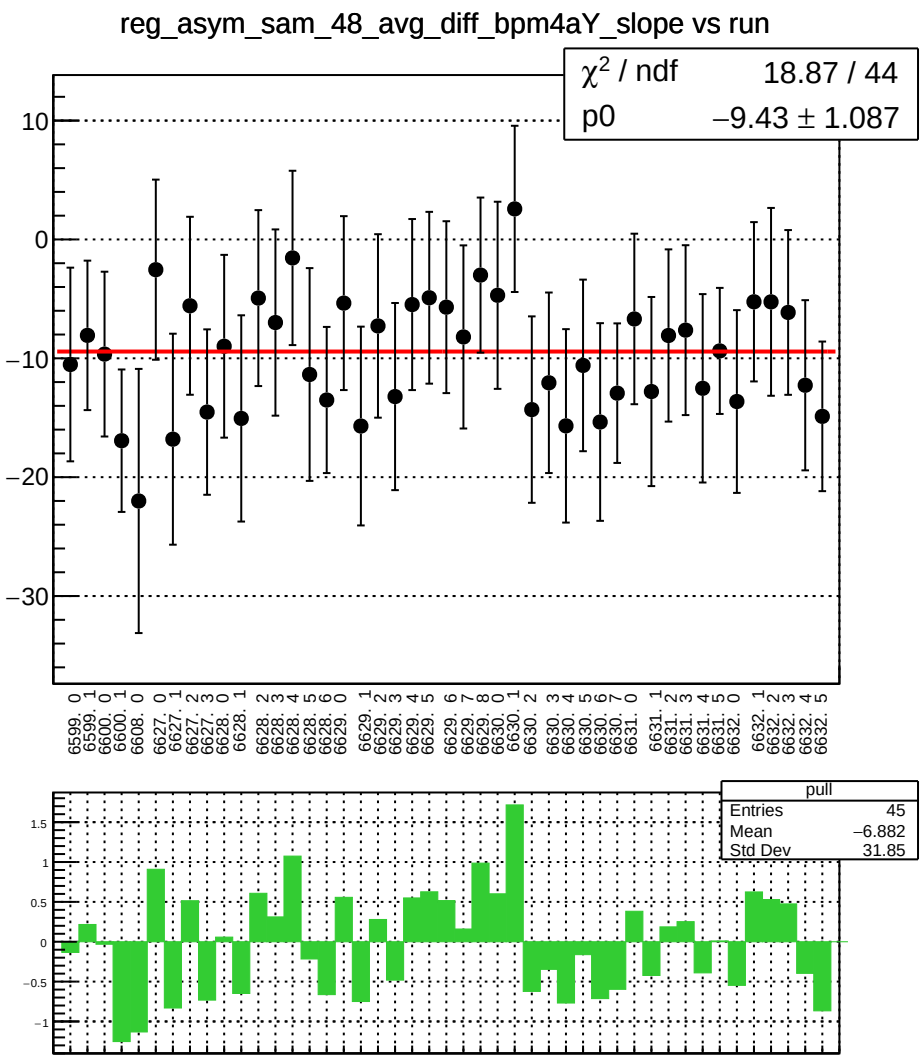

pull1D
Entries 45
Mean 0.0004353
Std Dev 0.2424
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

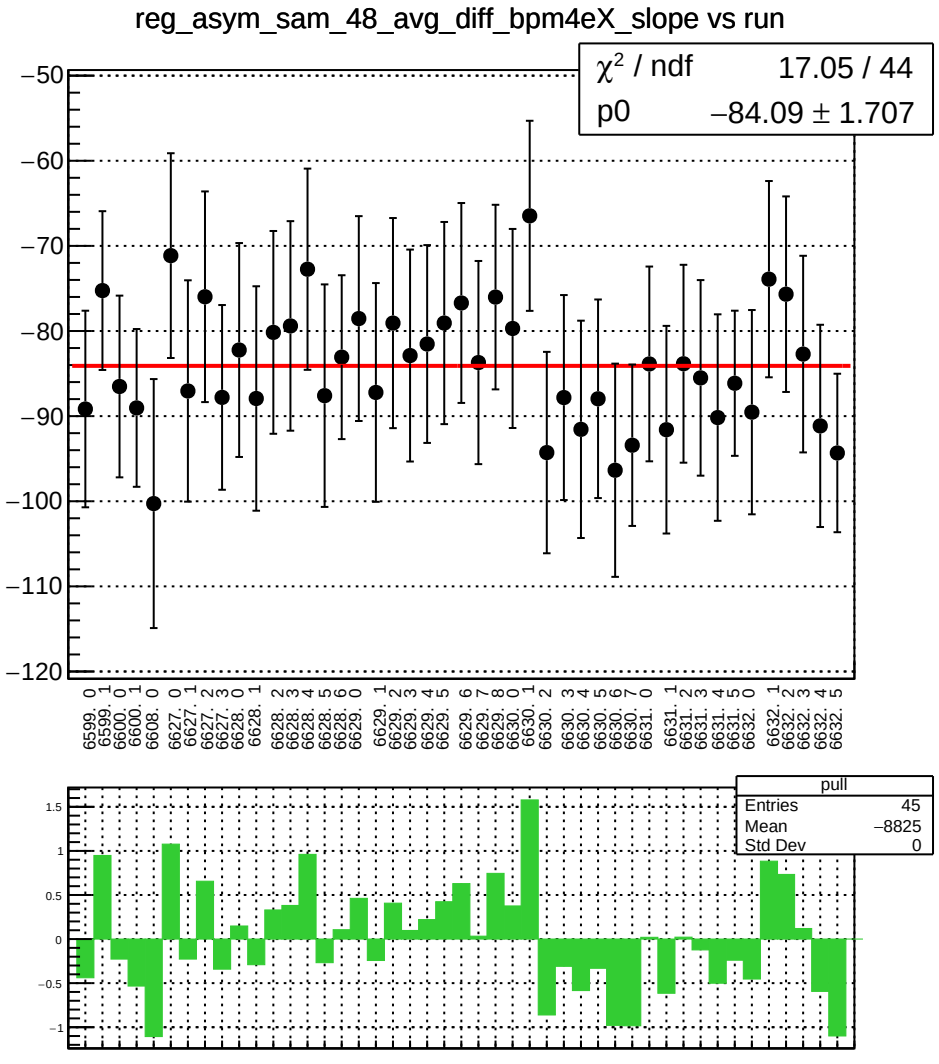

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.317 / 44
p0 −111.5 ± 1.835
−90
−100
−110
−120
−130
−140
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −5192
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean −0.0002564
Std Dev 0.4299
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

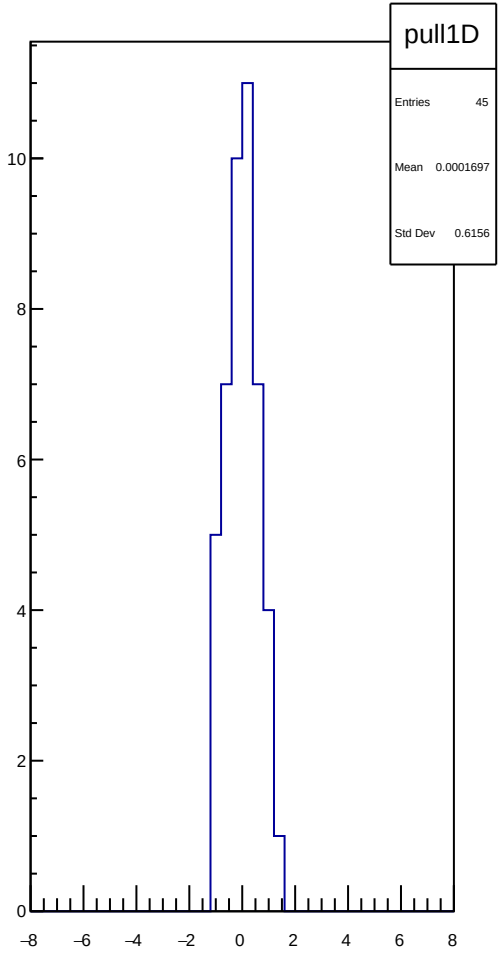

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 4.432 / 44
p0 0.7947 ± 0.09877
pull
Entries 45
Mean −72.73
Std Dev 0
pull1D
Entries 45
Mean 0.008698
Std Dev 0.3137

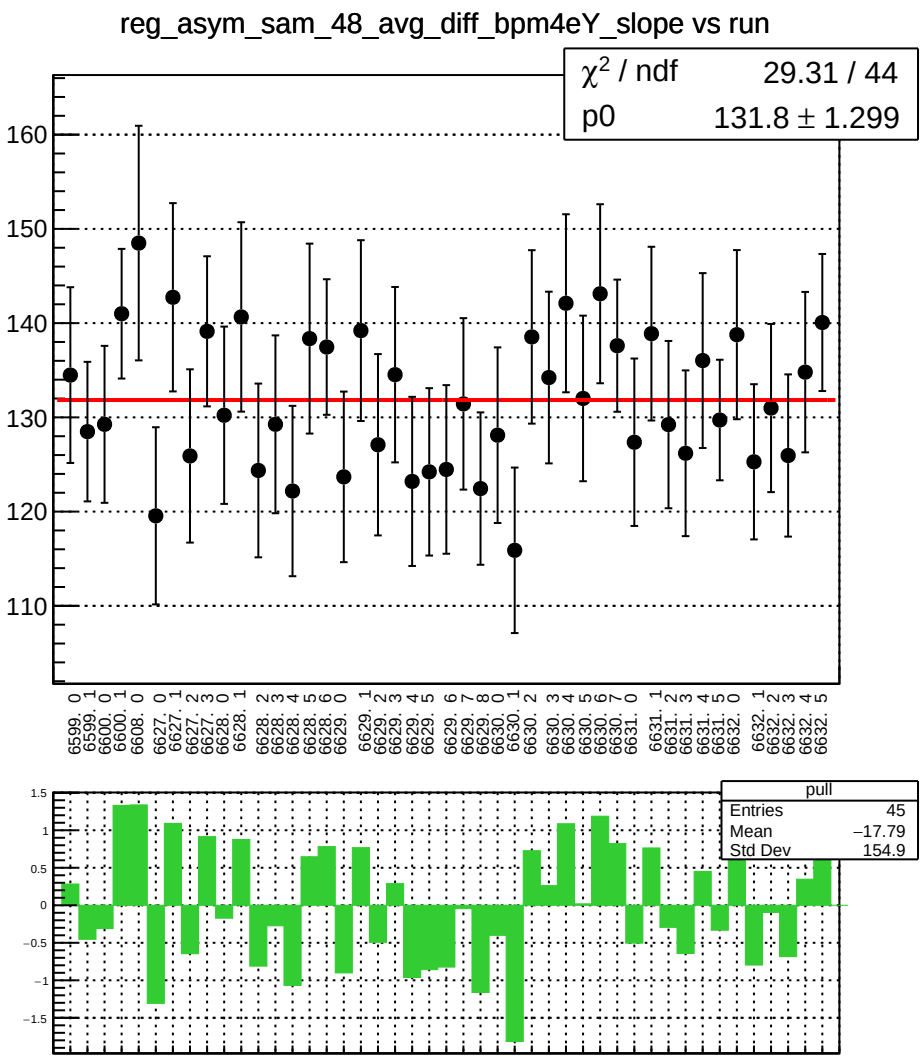

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 14.62 / 44
p0 −26.85 ± 1.655
pull
Entries 45
Mean −223
Std Dev 0

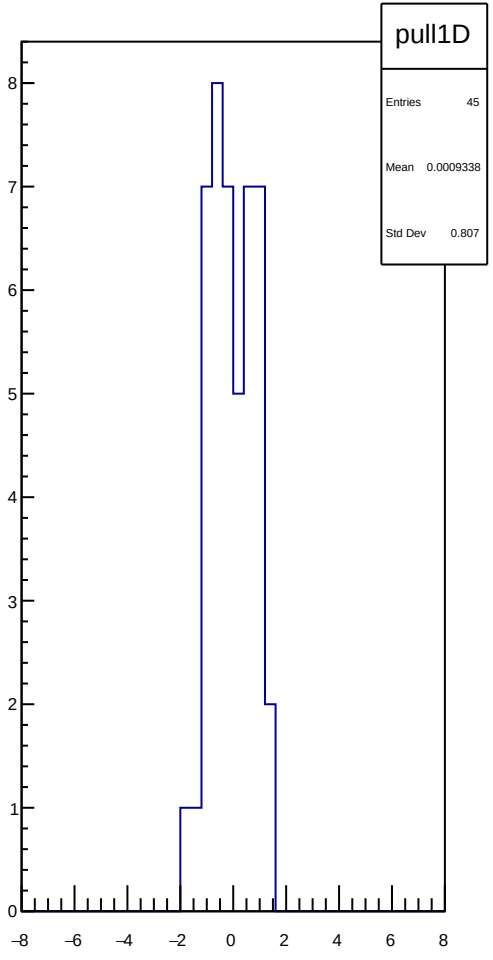

pull1D
Entries 45
Mean −0.006242
Std Dev 0.5699

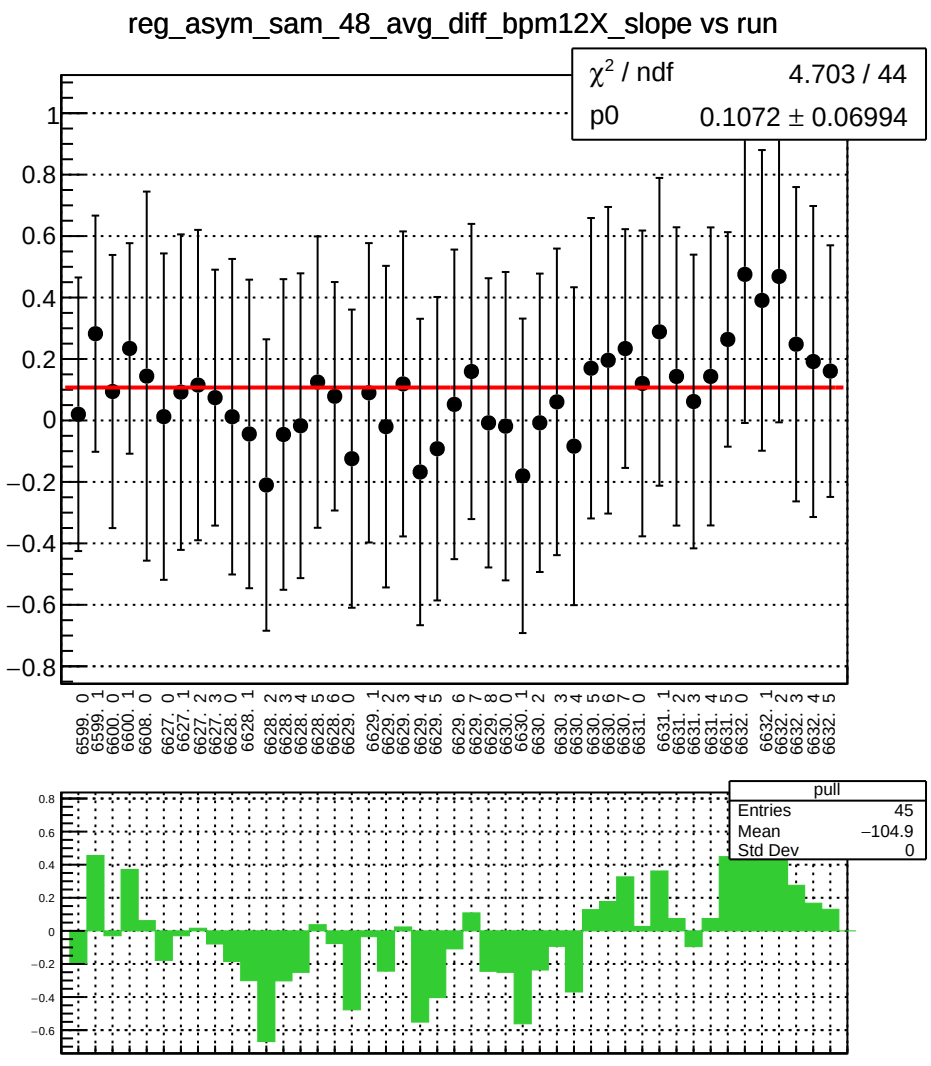

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.87 / 44
p0 −9.43 ± 1.087
10
0
−10
−20
−30
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −6.882
Std Dev 31.85
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.01251
Std Dev 0.6475
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

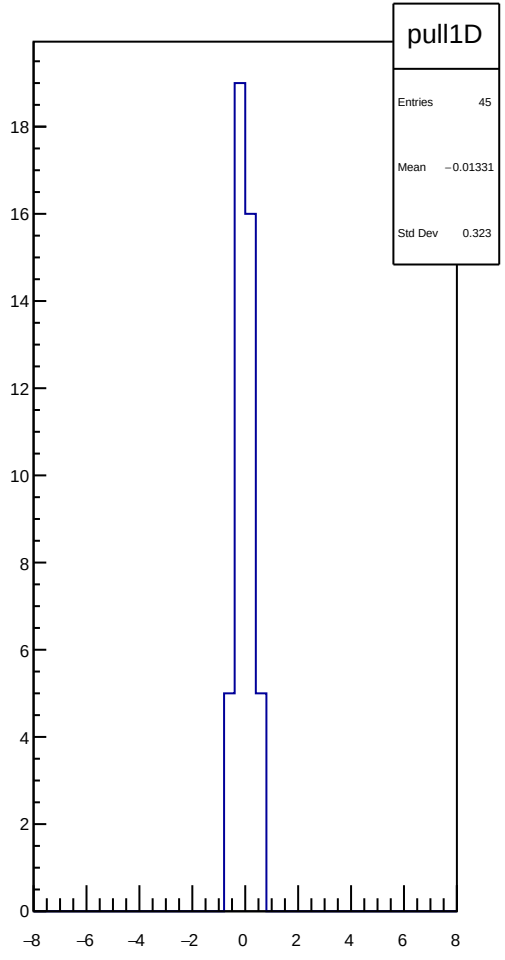

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.05 / 44
p0 −84.09 ± 1.707
−50
−60
−70
−80
−90
−100
−110
−120
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −8825
Std Dev 0
1.5
1
0.5
0
−0.5
−1

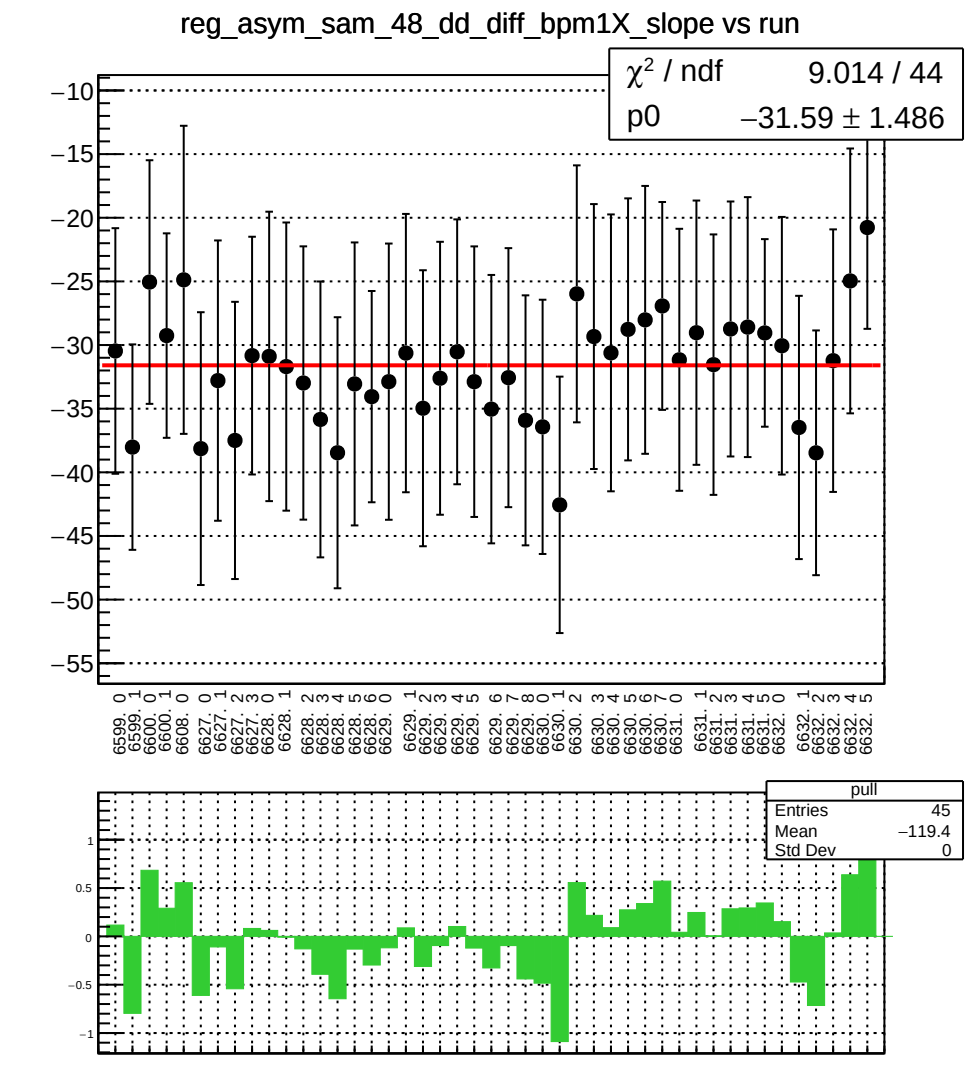

pull1D
Entries 45
Mean 0.0001697
Std Dev 0.6156
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

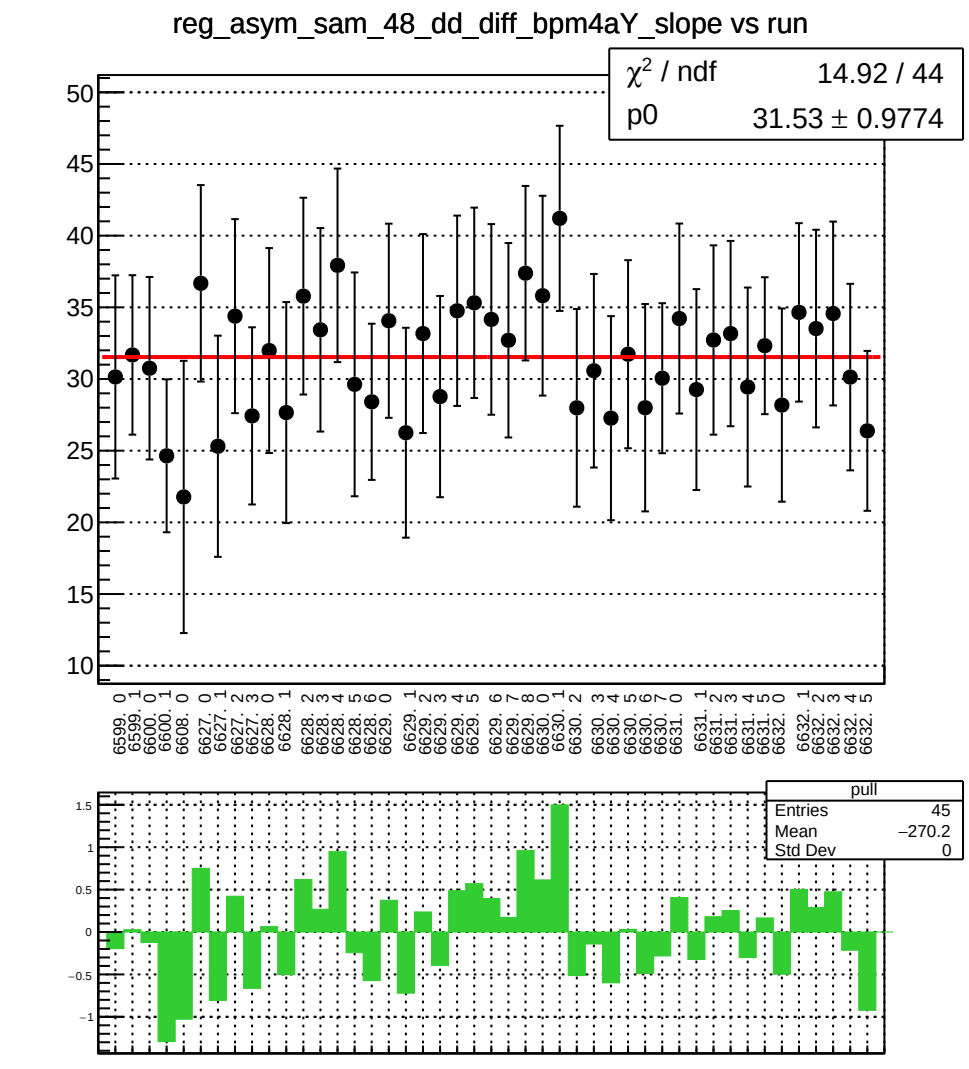

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.31 / 44
p0 131.8 ± 1.299
160
150
140
130
120
110
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −17.79
Std Dev 154.9
1.5
1
0.5
0
−0.5
−1
−1.5

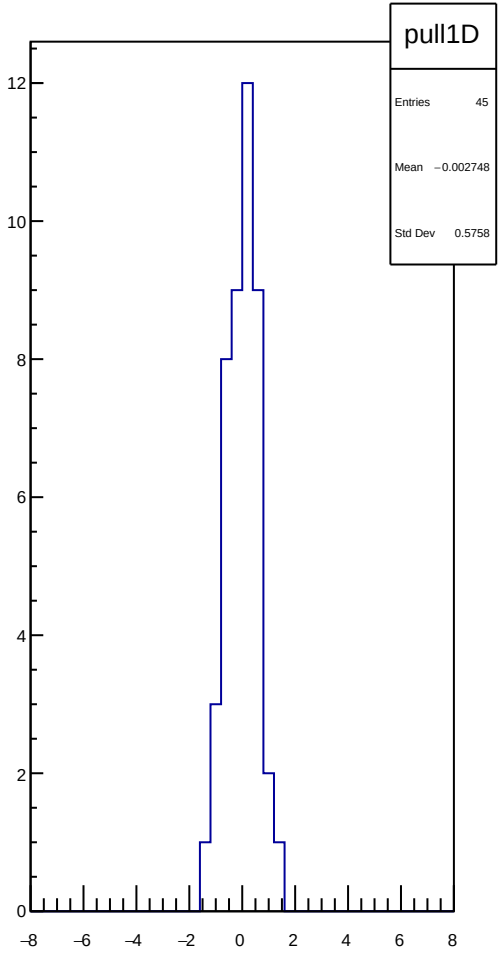

pull1D
Entries 45
Mean 0.0009338
Std Dev 0.807
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

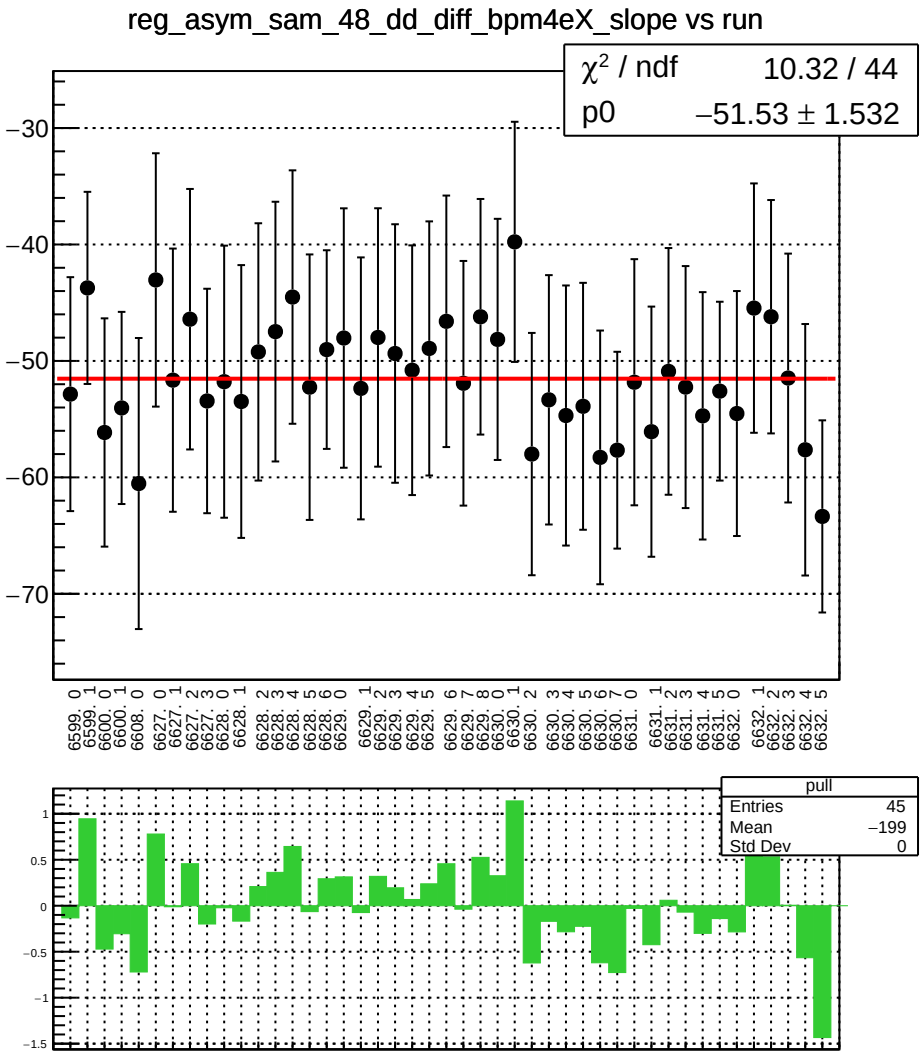

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 4.703 / 44
p0 0.1072 ± 0.06994
pull
Entries 45
Mean −104.9
Std Dev 0

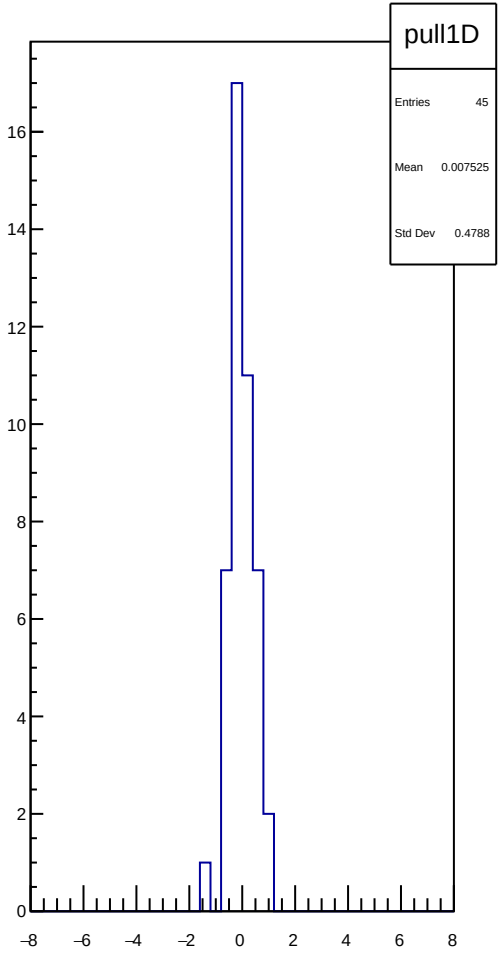

pull1D
Entries 45
Mean −0.01331
Std Dev 0.323

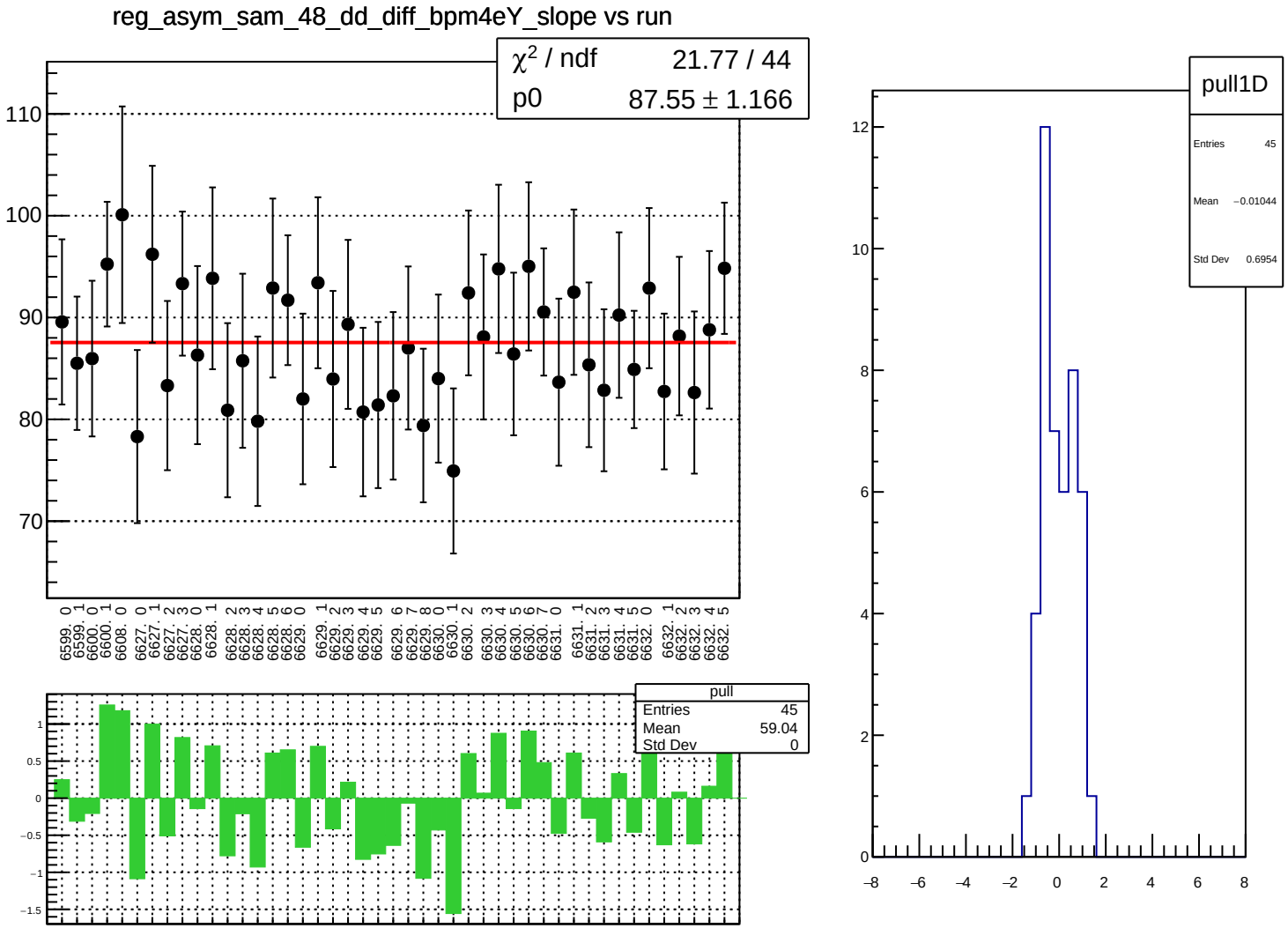

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 9.014 / 44
p0 −31.59 ± 1.486
pull
Entries 45
Mean −119.4
Std Dev 0
pull1D
Entries 45
Mean −0.01099
Std Dev 0.4474

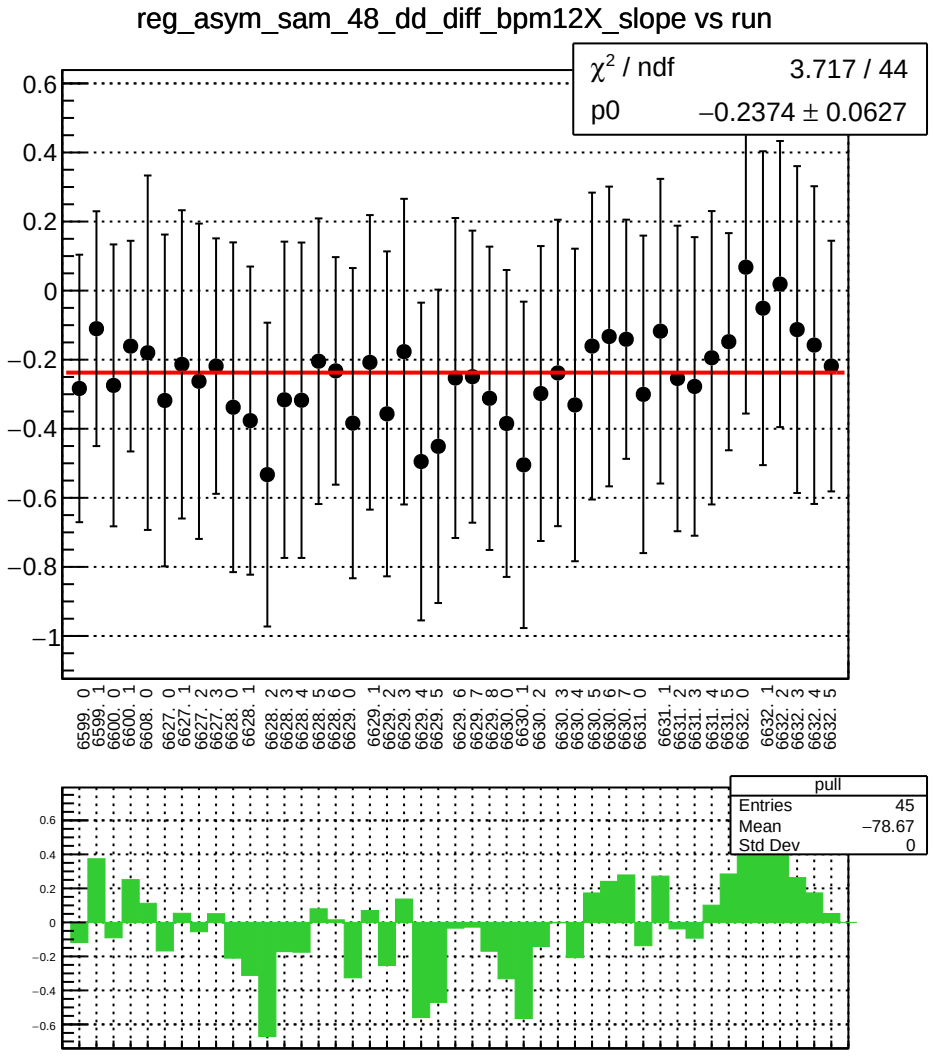

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.92 / 44
p0 31.53 ± 0.9774
pull
Entries 45
Mean −270.2
Std Dev 0

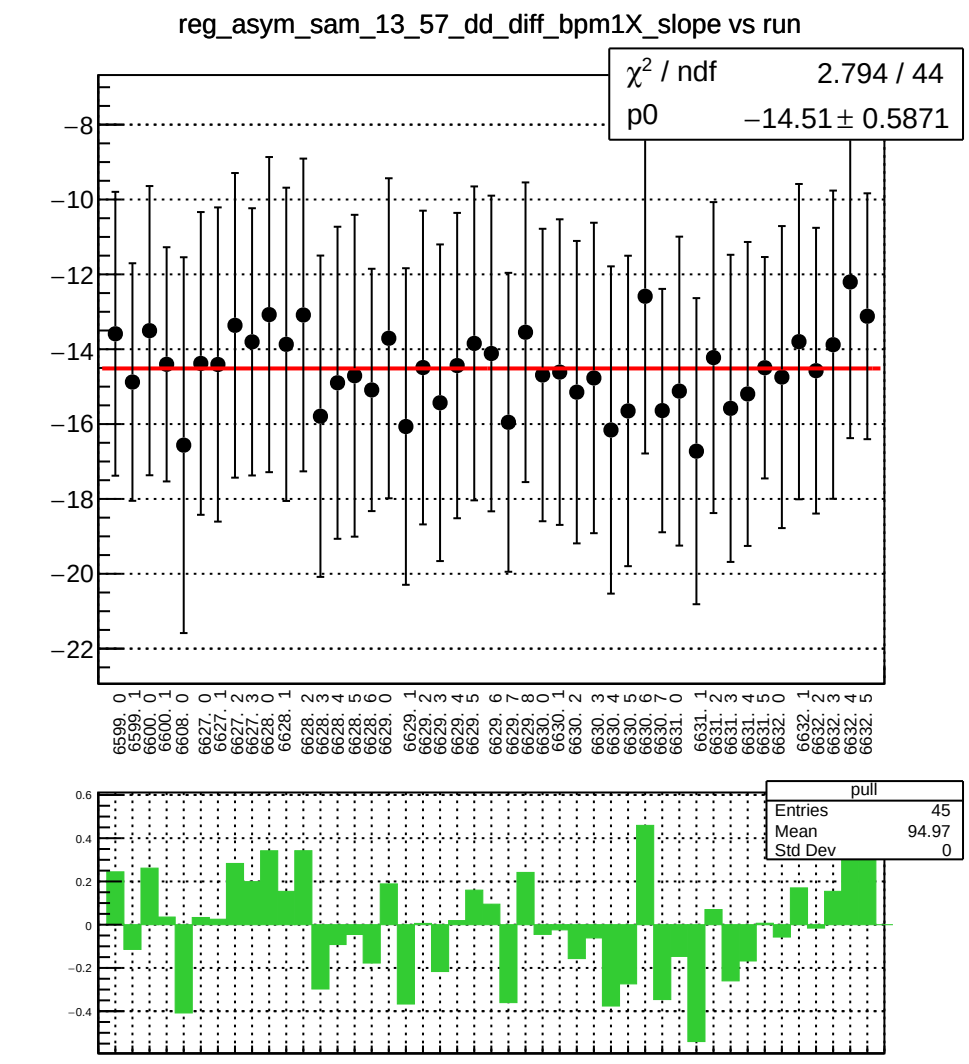

pull1D
Entries 45
Mean −0.002748
Std Dev 0.5758

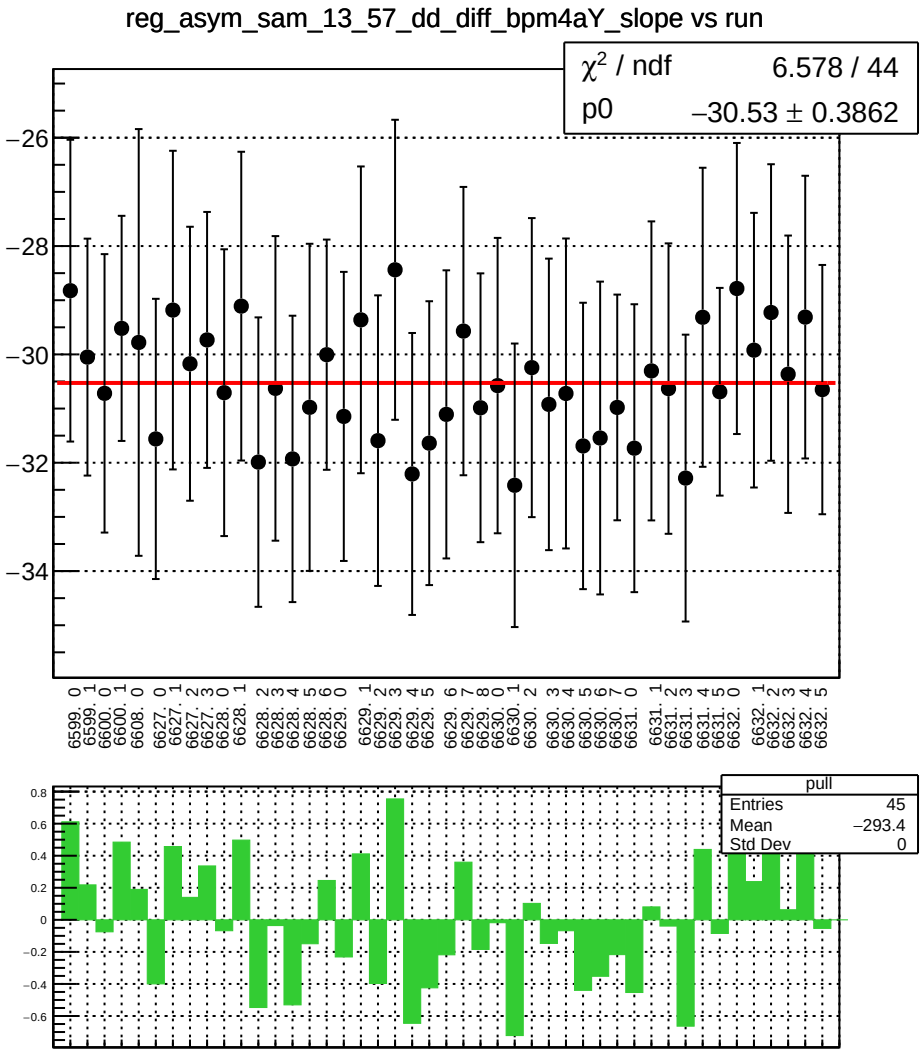

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.32 / 44
p0 −51.53 ± 1.532
−30
−40
−50
−60
−70
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −199
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

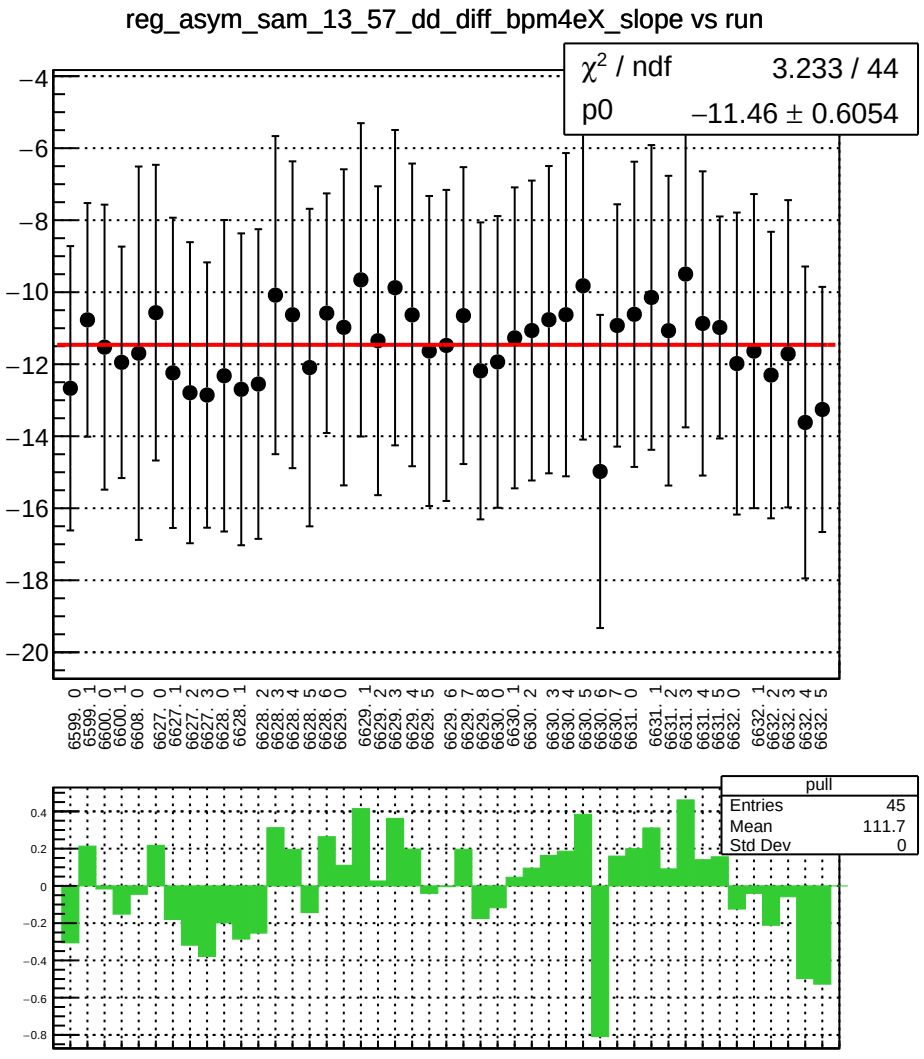

pull1D
Entries 45
Mean 0.007525
Std Dev 0.4788
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

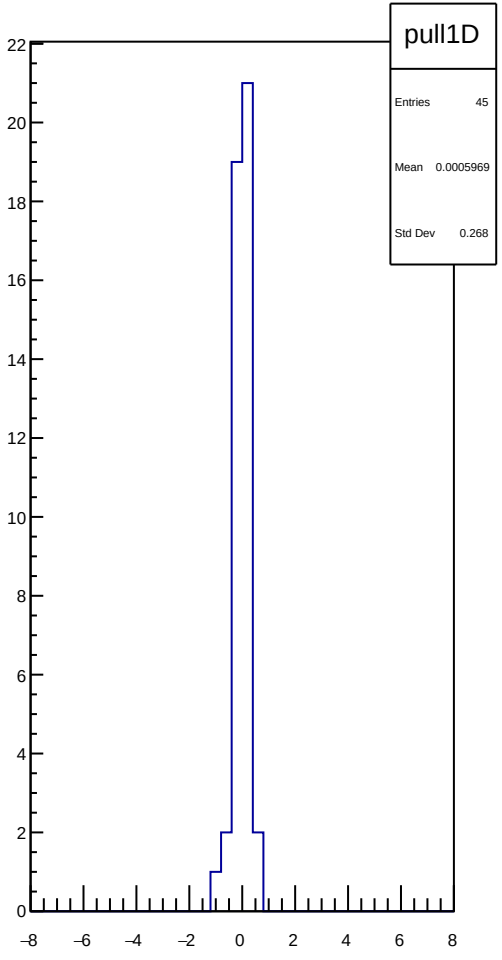

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.77 / 44
p0 87.55 ± 1.166
110
100
90
80
70
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 59.04
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.01044
Std Dev 0.6954
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

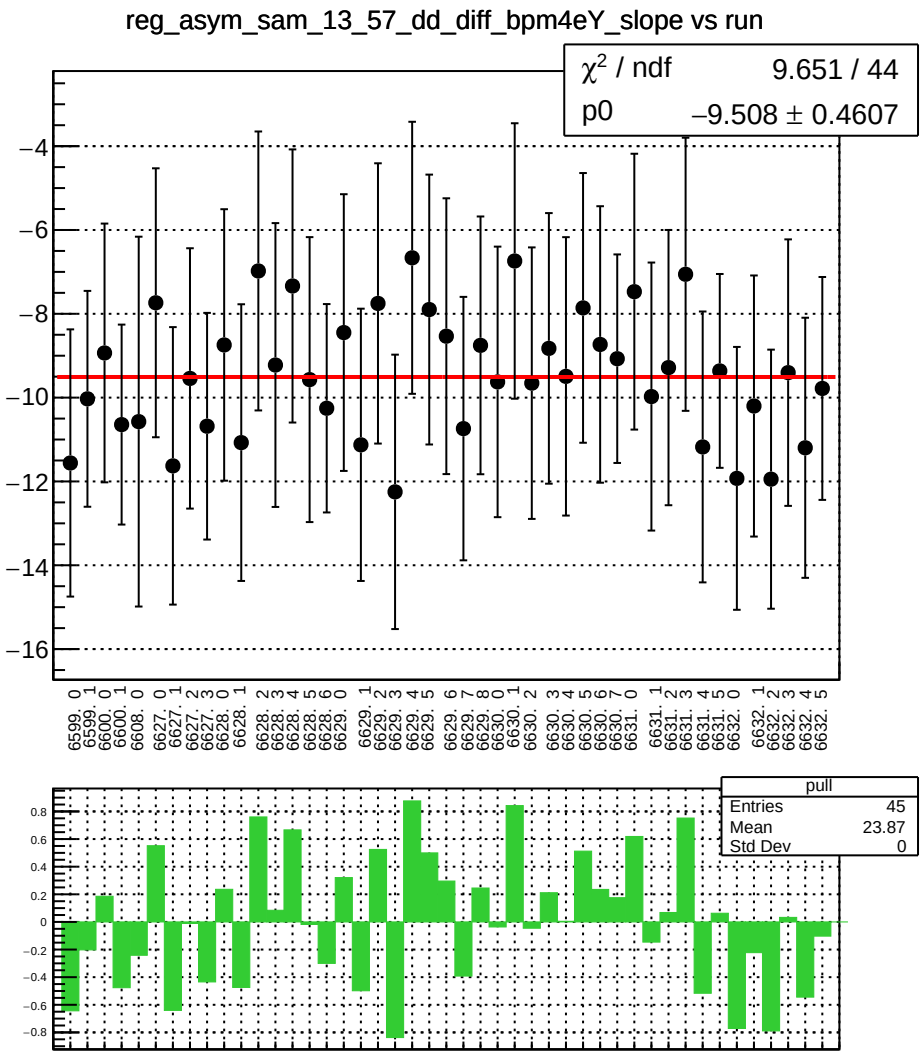

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 3.717 / 44
p0 −0.2374 ± 0.0627
pull
Entries 45
Mean −78.67
Std Dev 0
pull1D
Entries 45
Mean −0.0132
Std Dev 0.2871

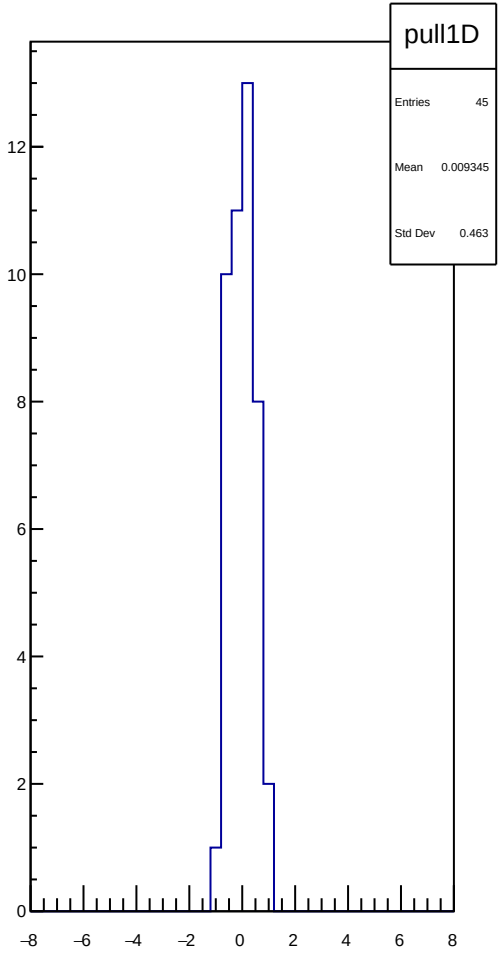

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 2.794 / 44
p0 −14.51 ± 0.5871
−8
−10
−12
−14
−16
−18
−20
−22
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 94.97
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 45
Mean −0.001792
Std Dev 0.2492
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

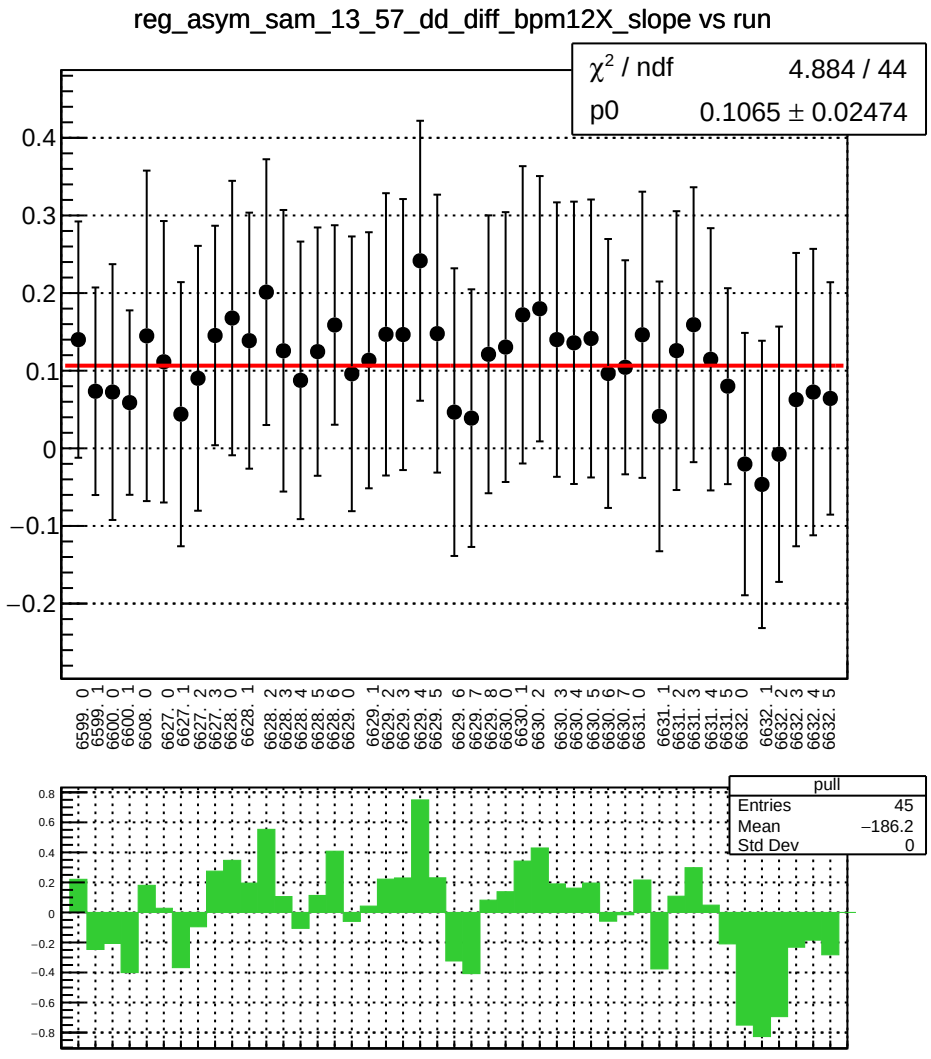

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.578 / 44
p0 −30.53 ± 0.3862
−26
−28
−30
−32
−34
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −293.4
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 45
Mean 0.001239
Std Dev 0.3823
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

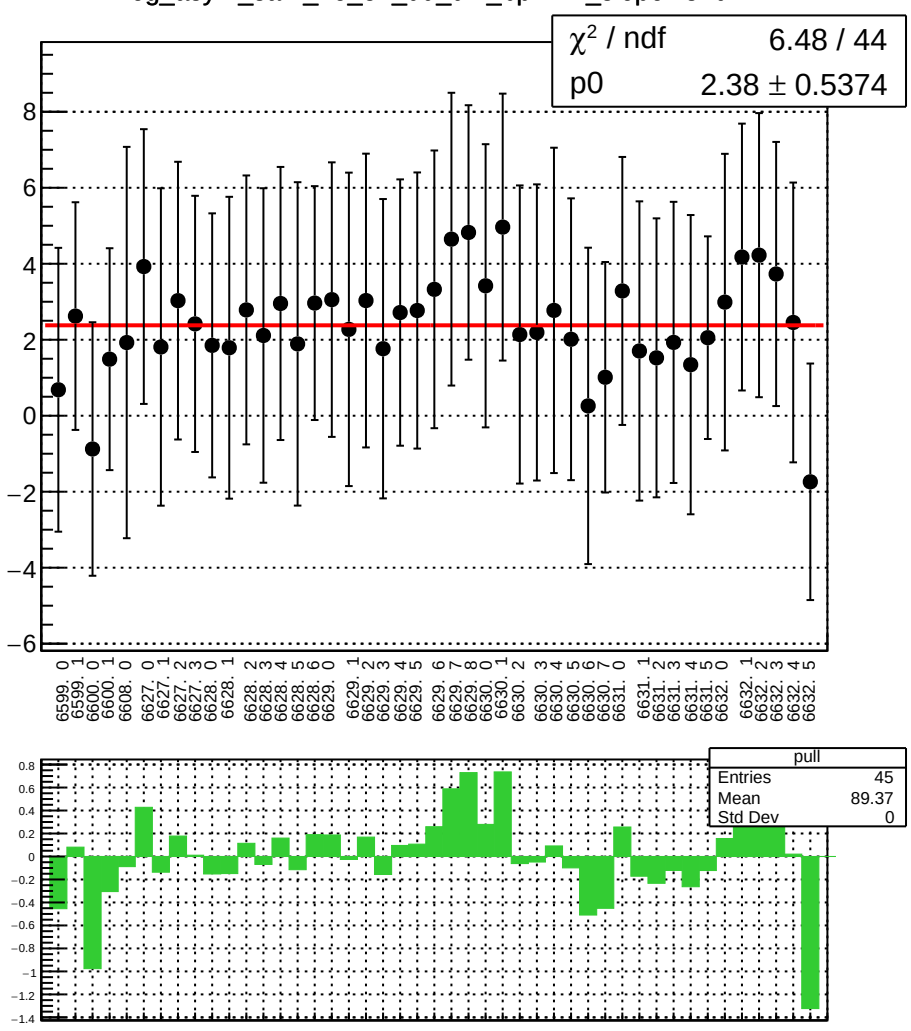

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.233 / 44
p0 −11.46 ± 0.6054
pull
Entries 45
Mean 111.7
Std Dev 0

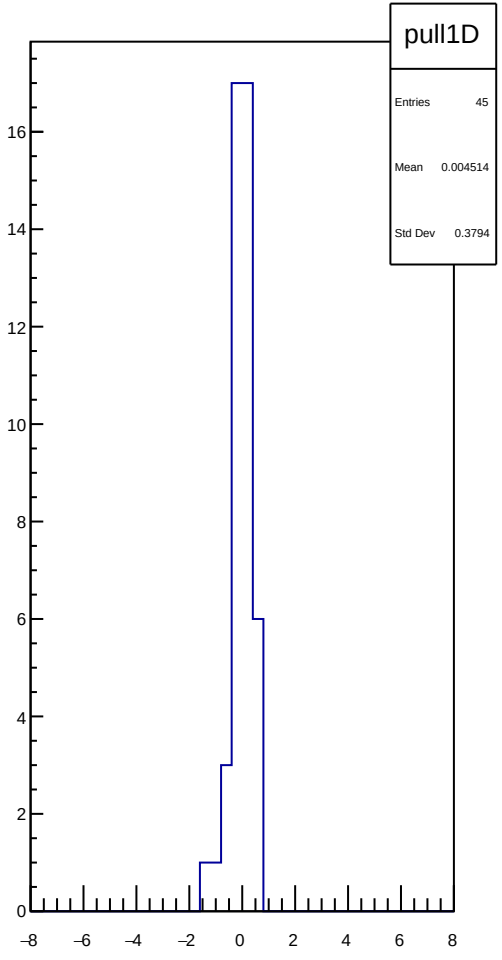

pull1D
Entries 45
Mean 0.0005969
Std Dev 0.268

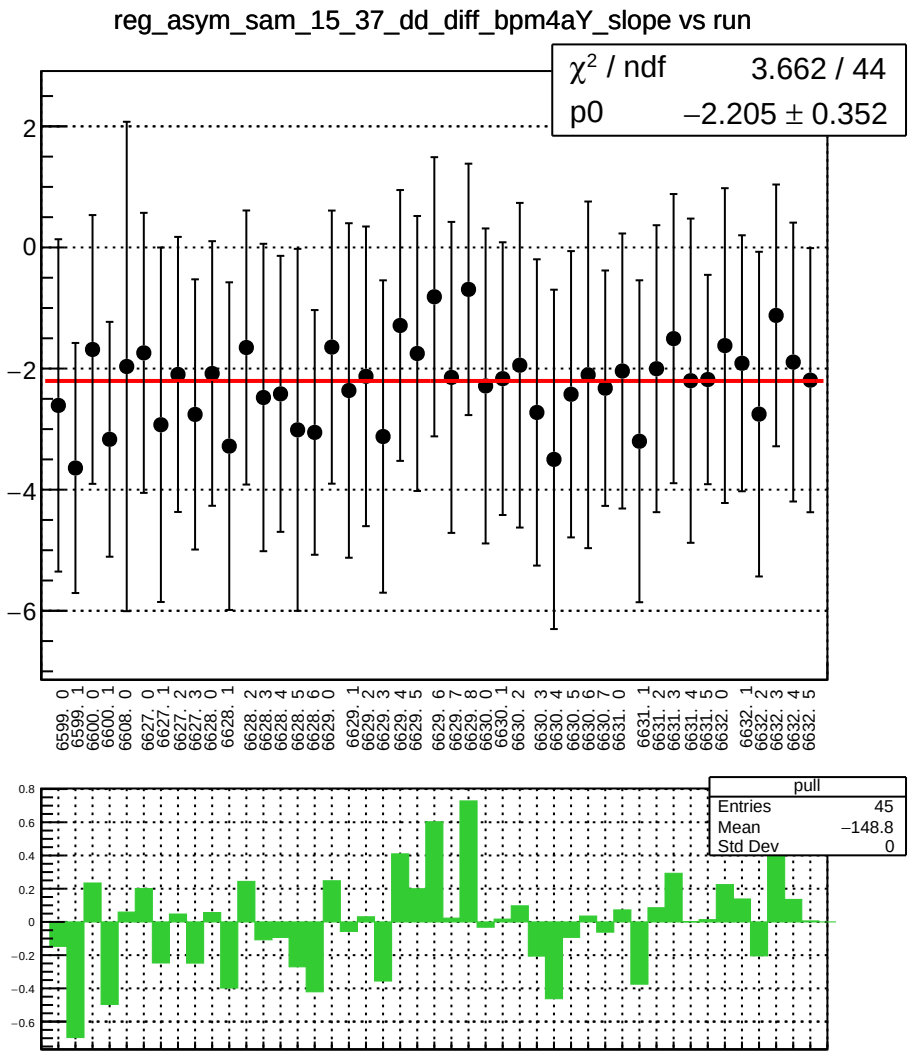

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.651 / 44
p0 −9.508 ± 0.4607
pull
Entries 45
Mean 23.87
Std Dev 0

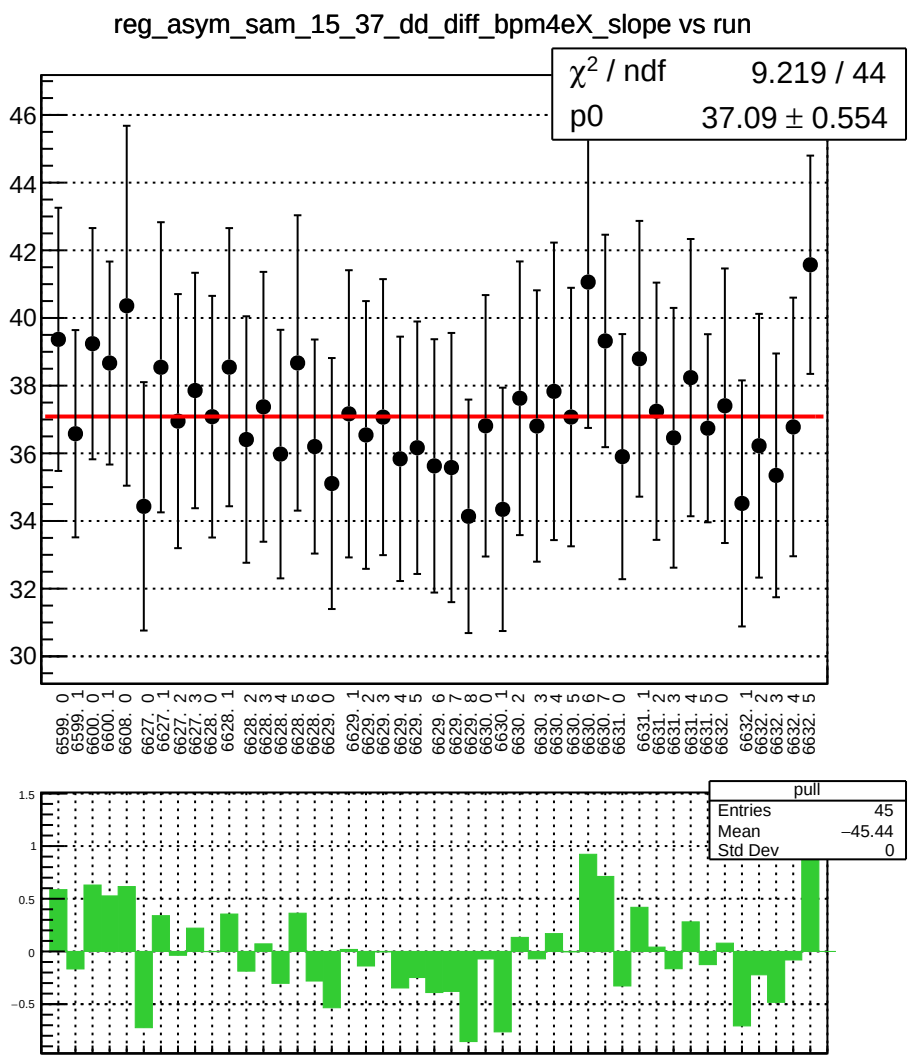

pull1D
Entries 45
Mean 0.009345
Std Dev 0.463

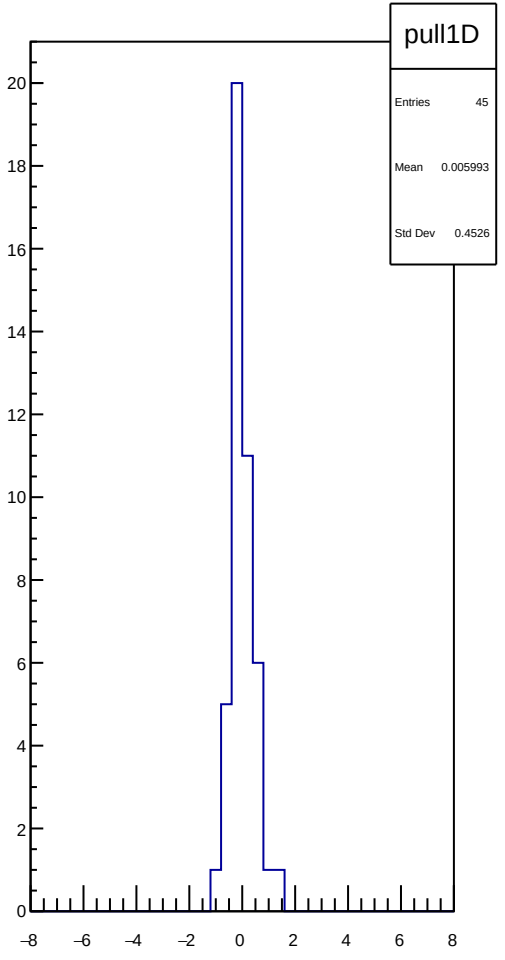

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 4.884 / 44
p0 0.1065 ± 0.02474
pull
Entries 45
Mean −186.2
Std Dev 0
pull1D
Entries 45
Mean 0.005963
Std Dev 0.3294

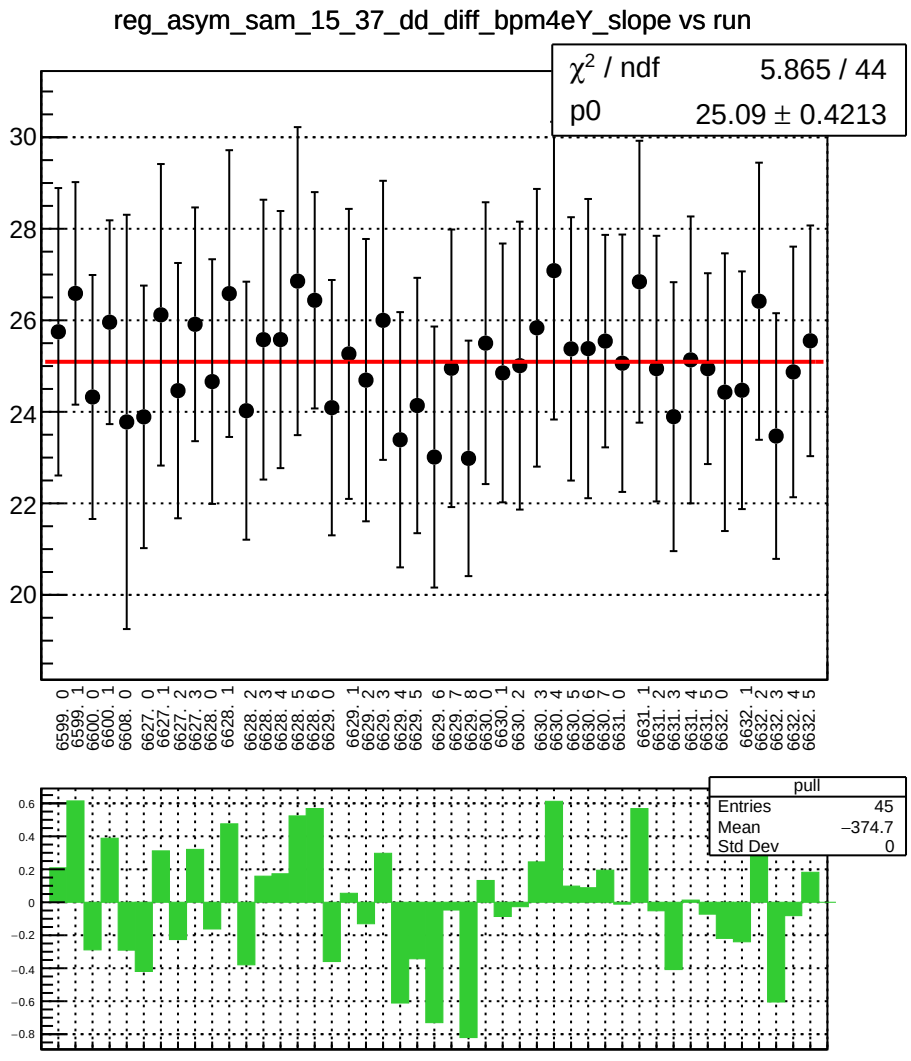

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 6.48 / 44
p0 2.38 ± 0.5374
pull
Entries 45
Mean 89.37
Std Dev 0

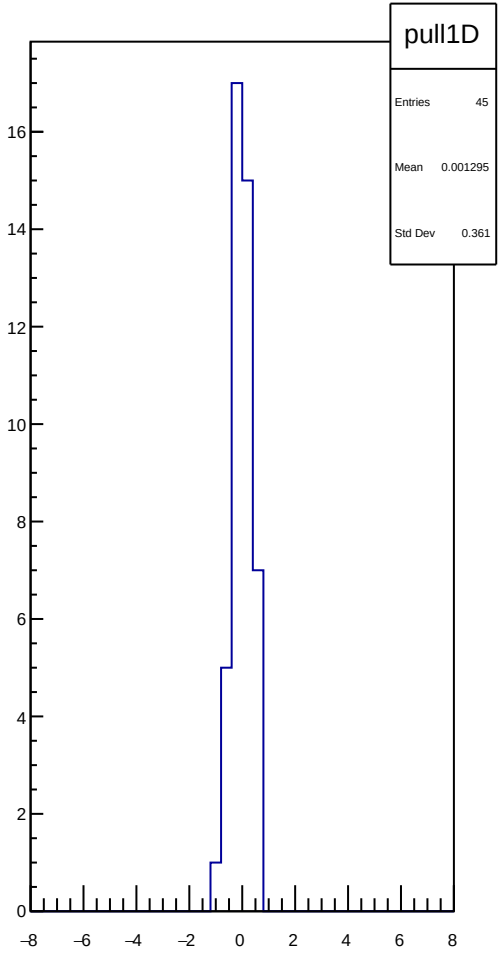

pull1D
Entries 45
Mean 0.004514
Std Dev 0.3794

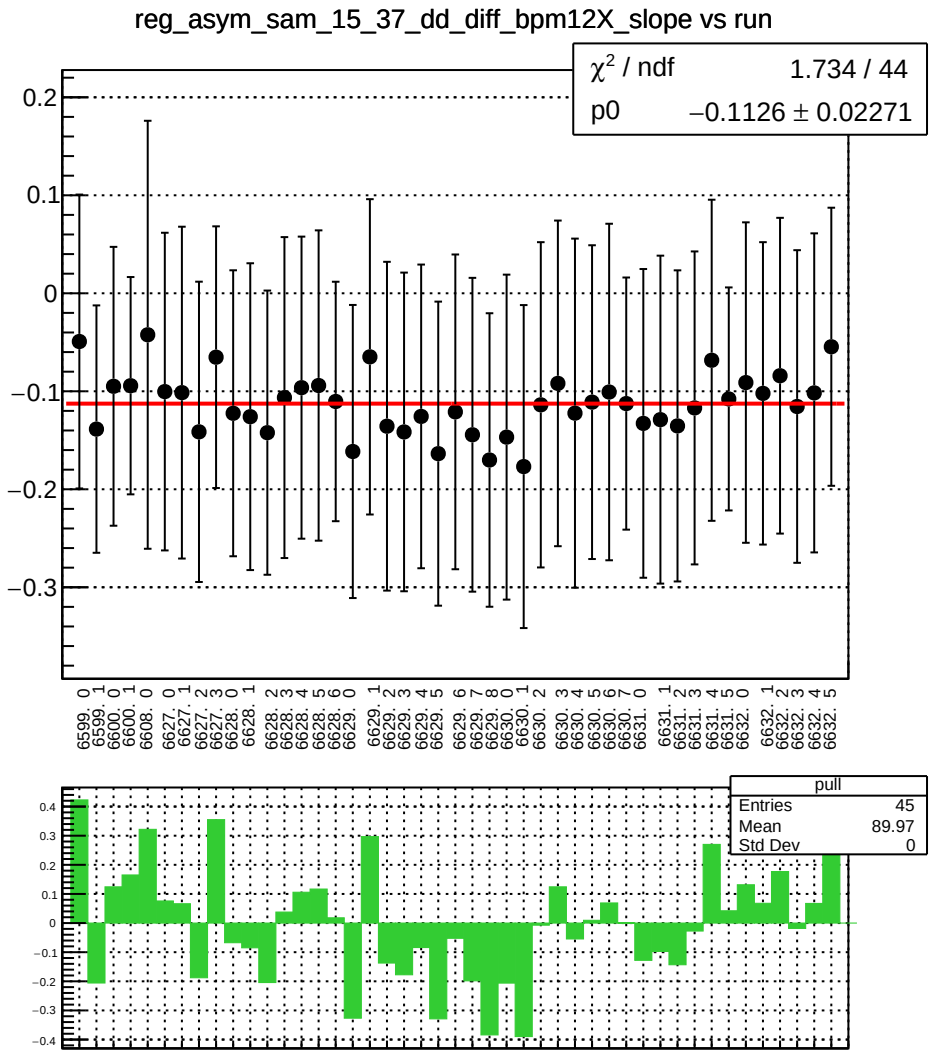

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.662 / 44
p0 −2.205 ± 0.352
pull
Entries 45
Mean −148.8
Std Dev 0
pull1D
Entries 45
Mean −0.005909
Std Dev 0.2852

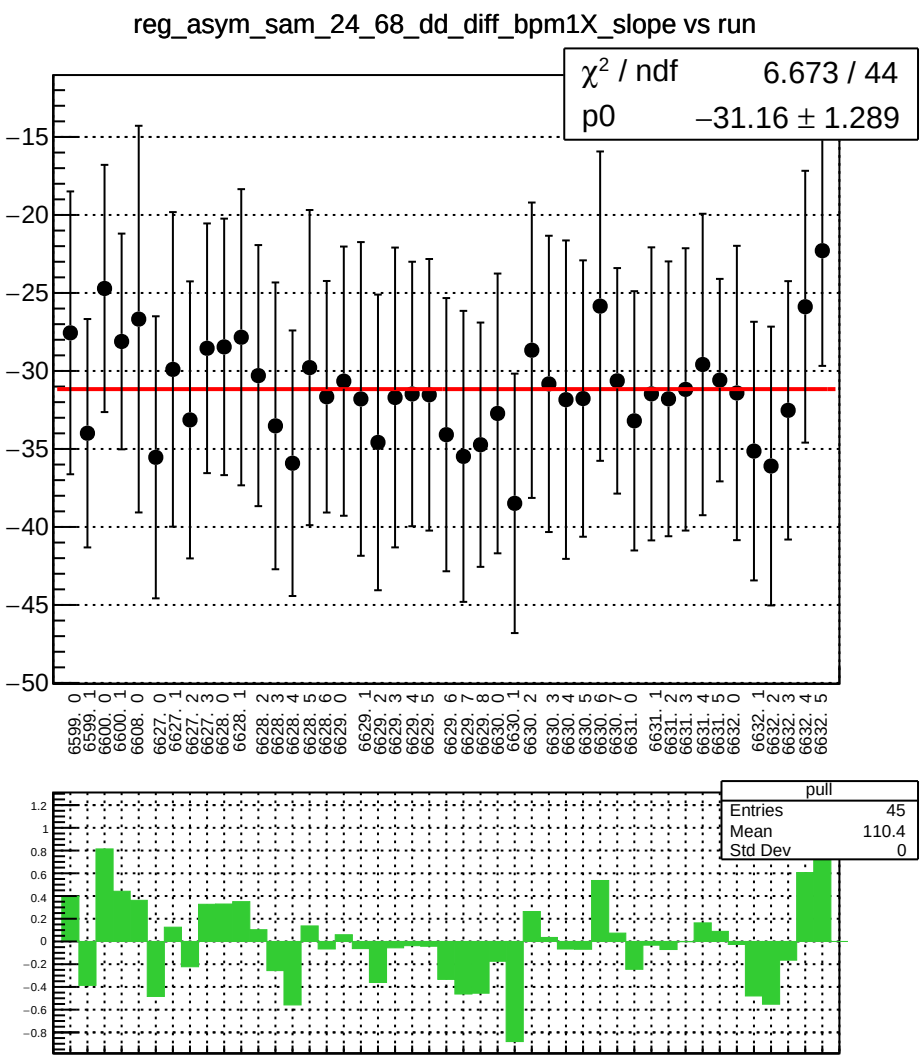

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.219 / 44
p0 37.09 ± 0.554
pull
Entries 45
Mean −45.44
Std Dev 0

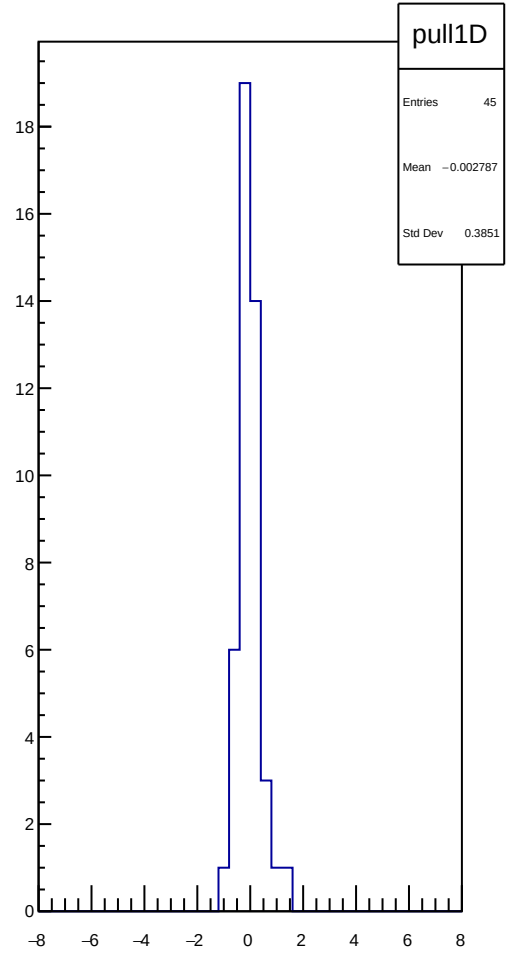

pull1D
Entries 45
Mean 0.005993
Std Dev 0.4526

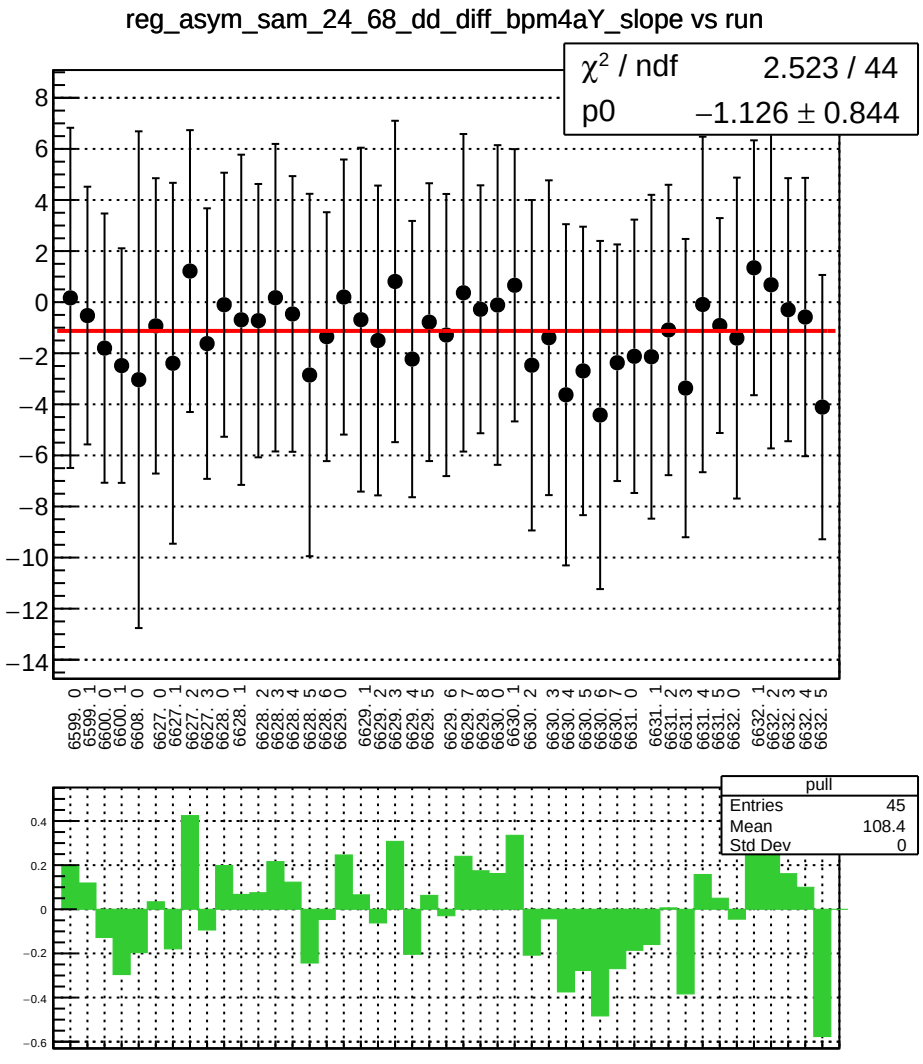

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.865 / 44
p0 25.09 ± 0.4213
pull
Entries 45
Mean −374.7
Std Dev 0

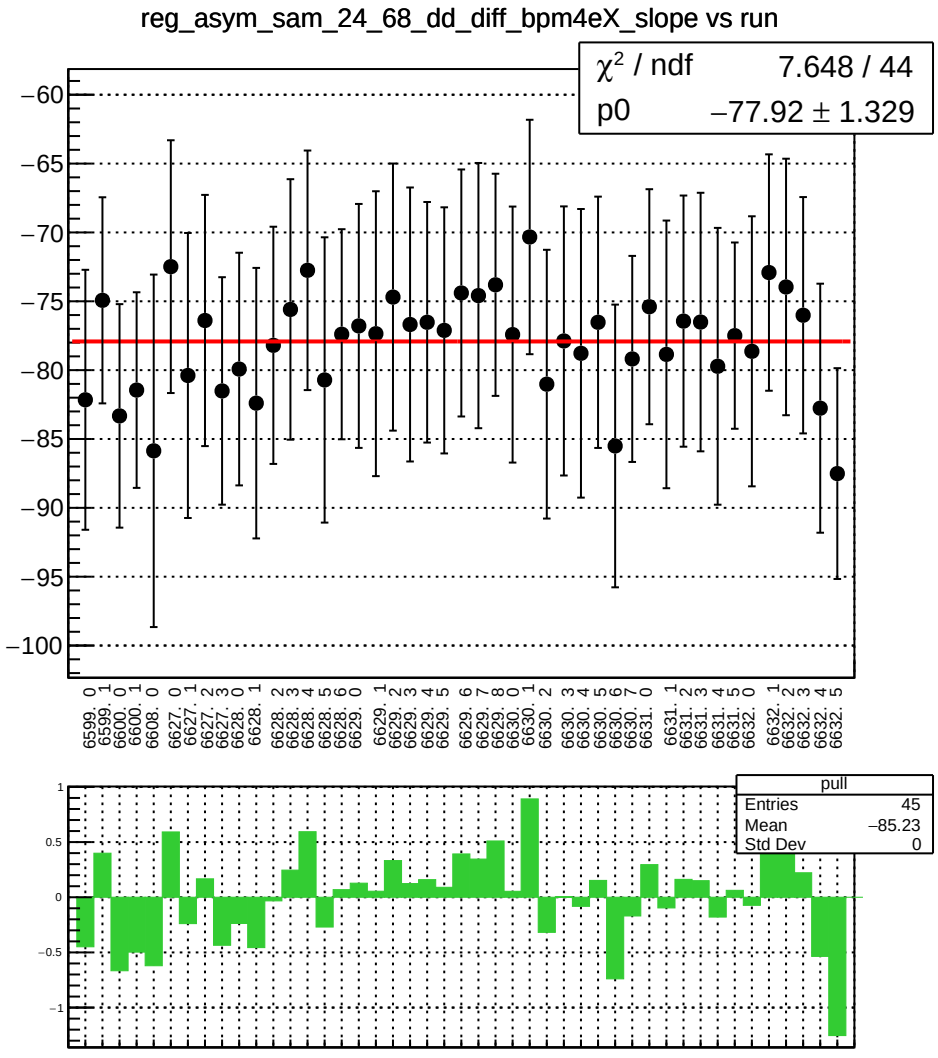

pull1D
Entries 45
Mean 0.001295
Std Dev 0.361

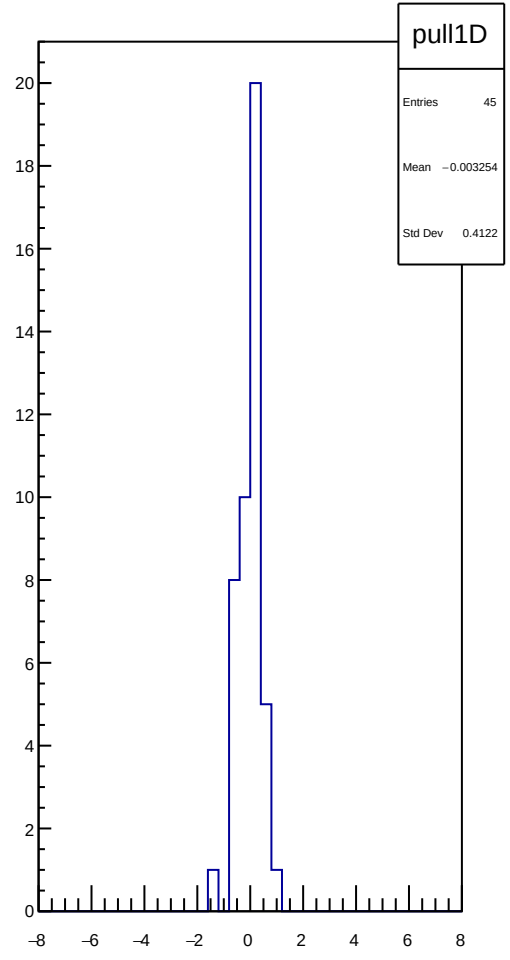

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 1.734 / 44
p0 −0.1126 ± 0.02271
pull
Entries 45
Mean 89.97
Std Dev 0
pull1D
Entries 45
Mean −0.0008032
Std Dev 0.1963

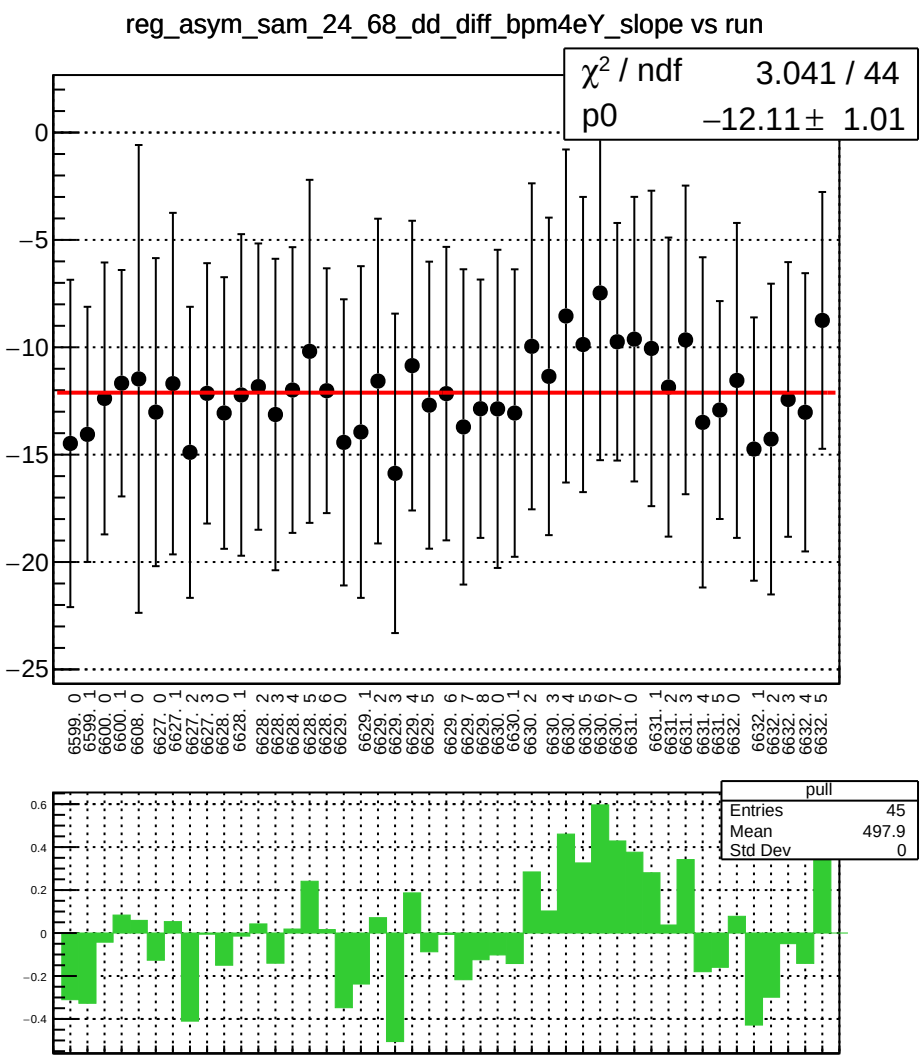

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 6.673 / 44
p0 −31.16 ± 1.289
pull
Entries 45
Mean 110.4
Std Dev 0

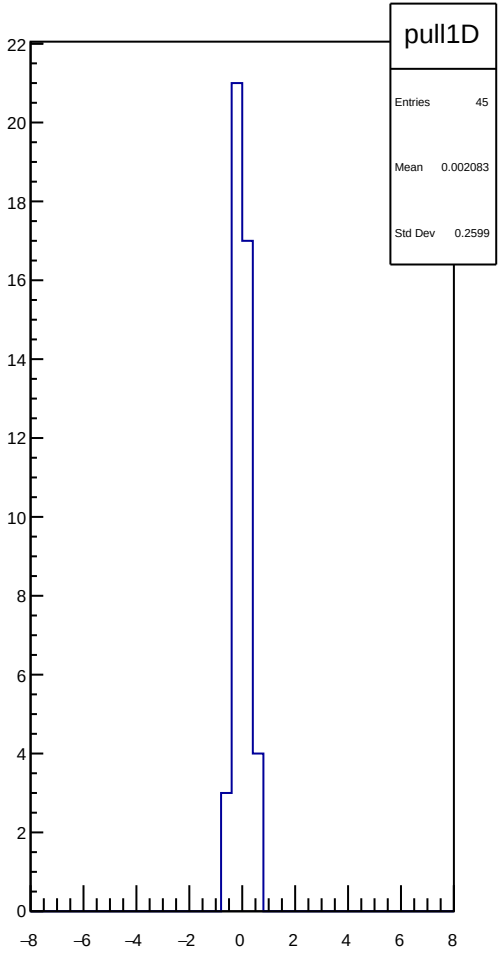

pull1D
Entries 45
Mean −0.002787
Std Dev 0.3851

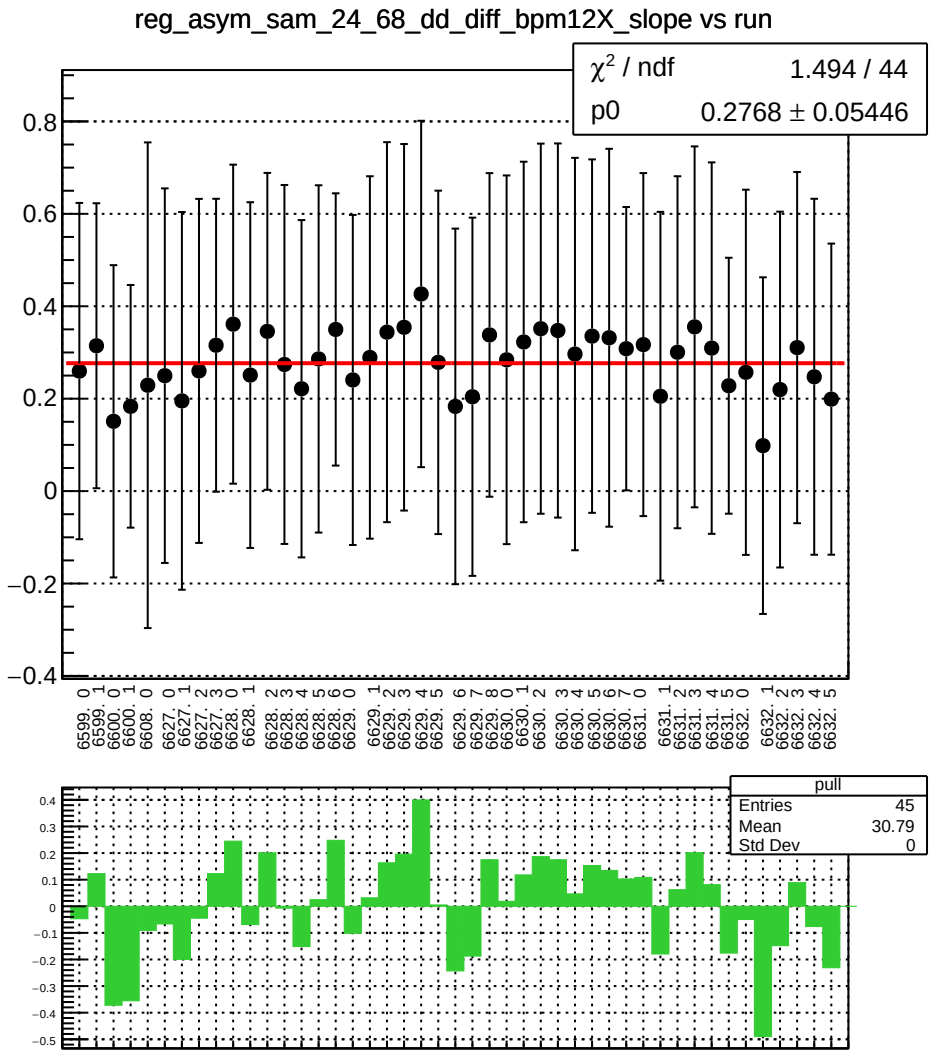

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.523 / 44
p0 −1.126 ± 0.844
pull
Entries 45
Mean 108.4
Std Dev 0
pull1D
Entries 45
Mean −0.0041
Std Dev 0.2368

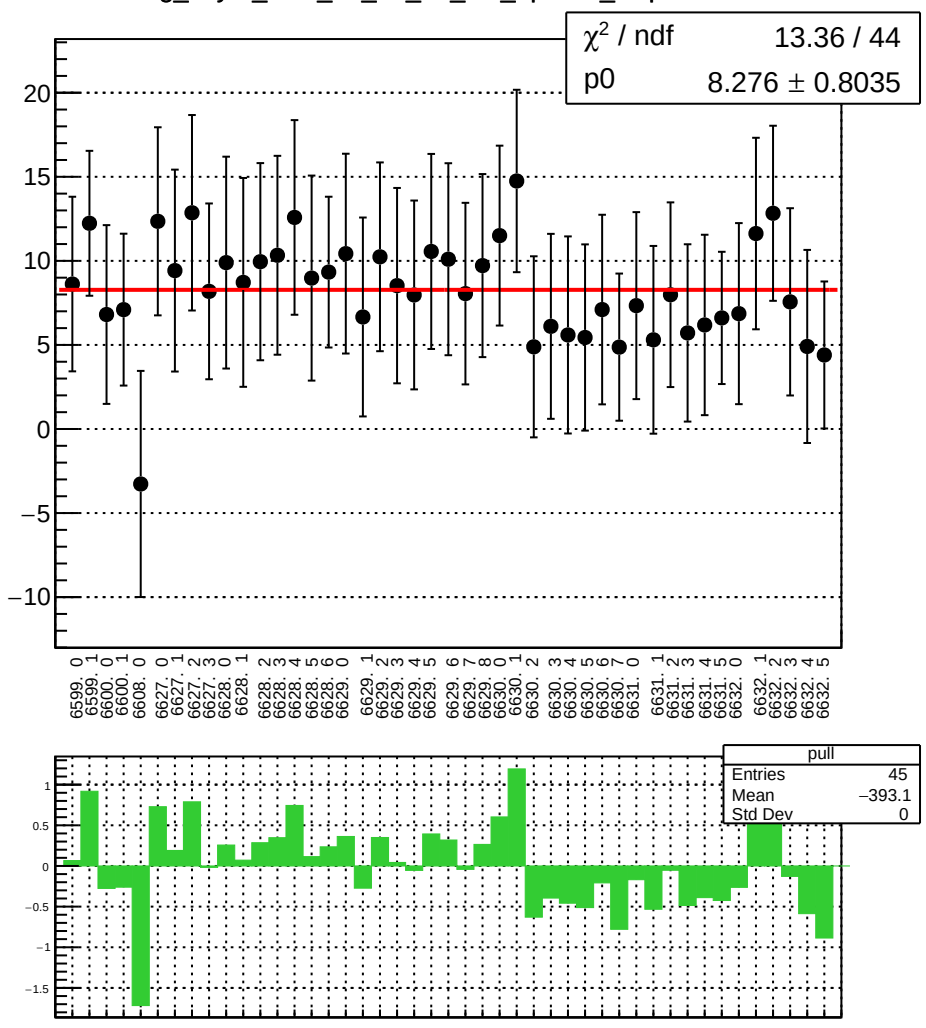

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.648 / 44
p0 −77.92 ± 1.329
pull
Entries 45
Mean −85.23
Std Dev 0

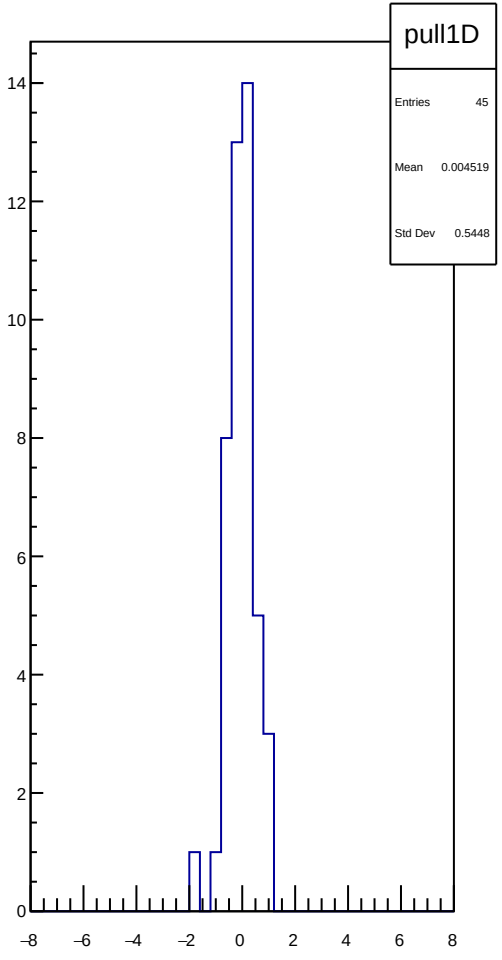

pull1D
Entries 45
Mean −0.003254
Std Dev 0.4122

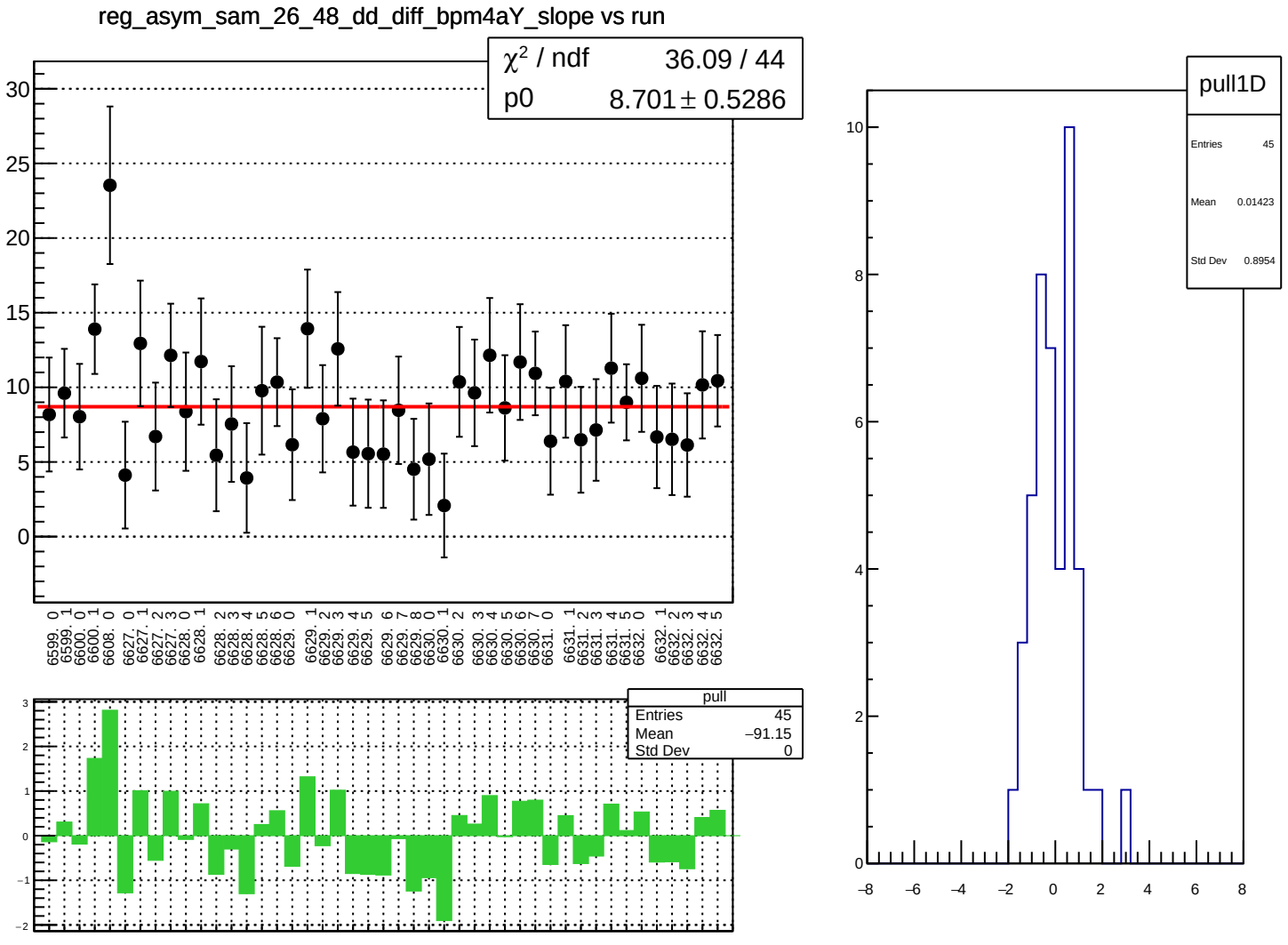

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.041 / 44
p0 −12.11 ± 1.01
pull
Entries 45
Mean 497.9
Std Dev 0

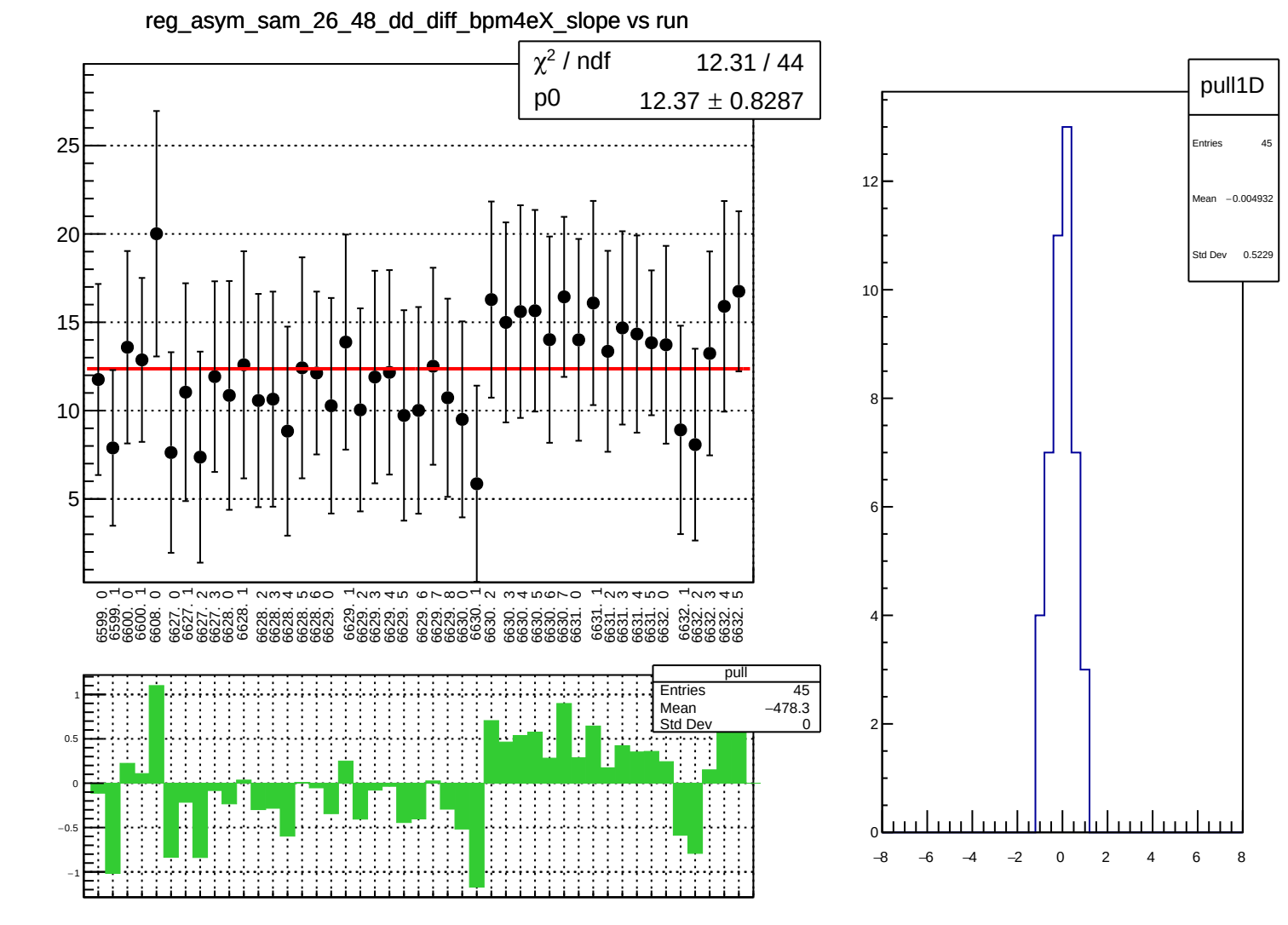

pull1D
Entries 45
Mean 0.002083
Std Dev 0.2599

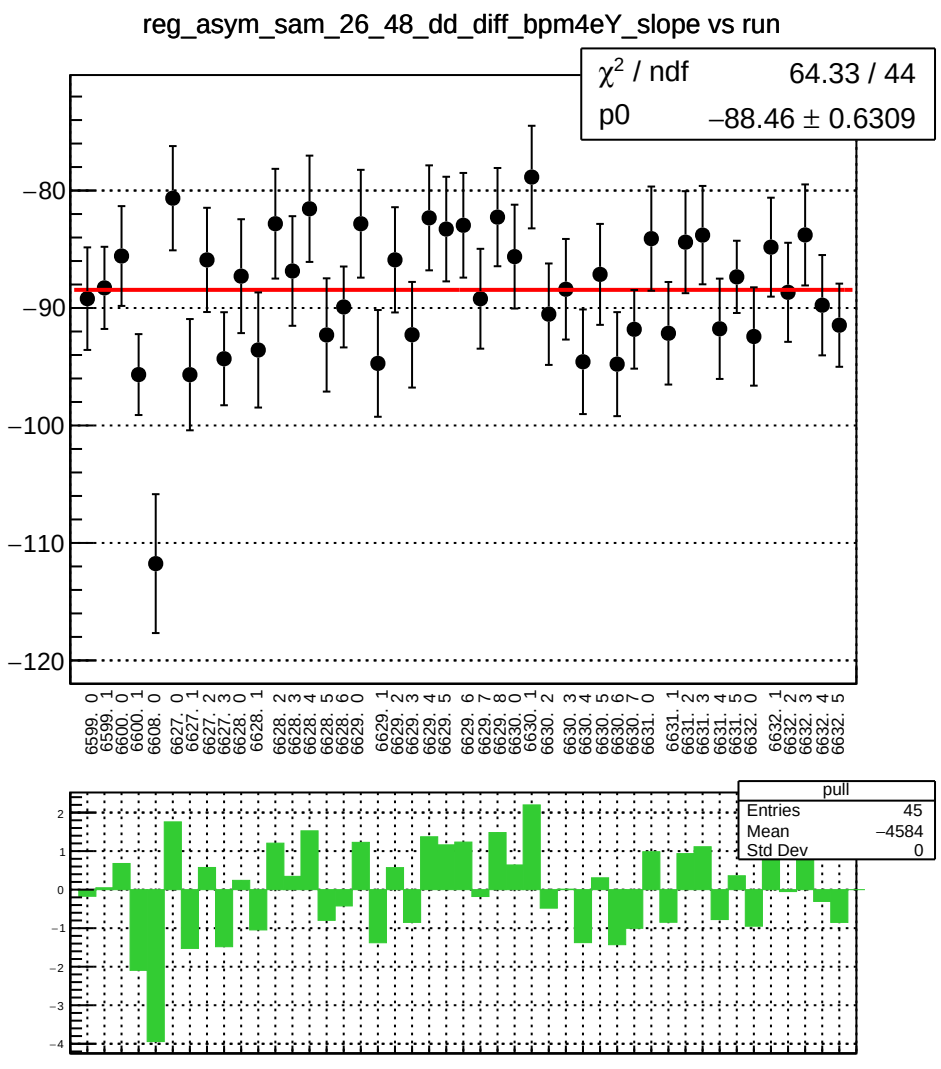

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 1.494 / 44
p0 0.2768 ± 0.05446
pull
Entries 45
Mean 30.79
Std Dev 0
pull1D
Entries 45
Mean 0.002823
Std Dev 0.1822

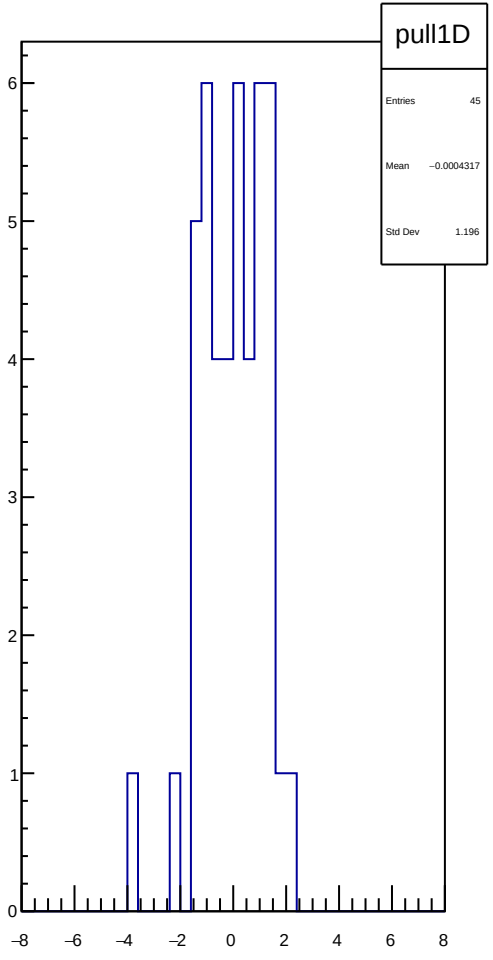

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 13.36 / 44
p0 8.276 ± 0.8035
pull
Entries 45
Mean −393.1
Std Dev 0

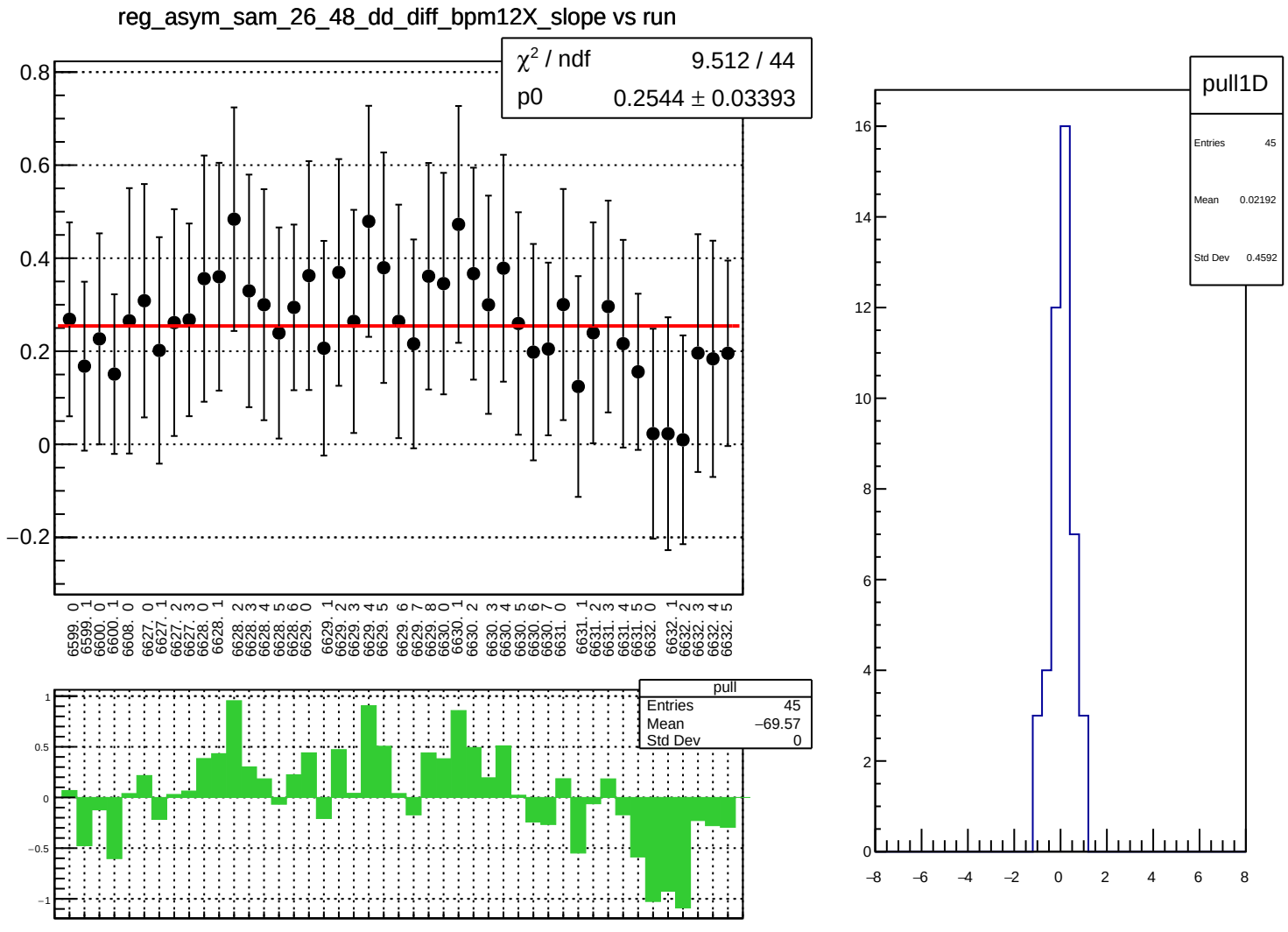

pull1D
Entries 45
Mean 0.004519
Std Dev 0.5448

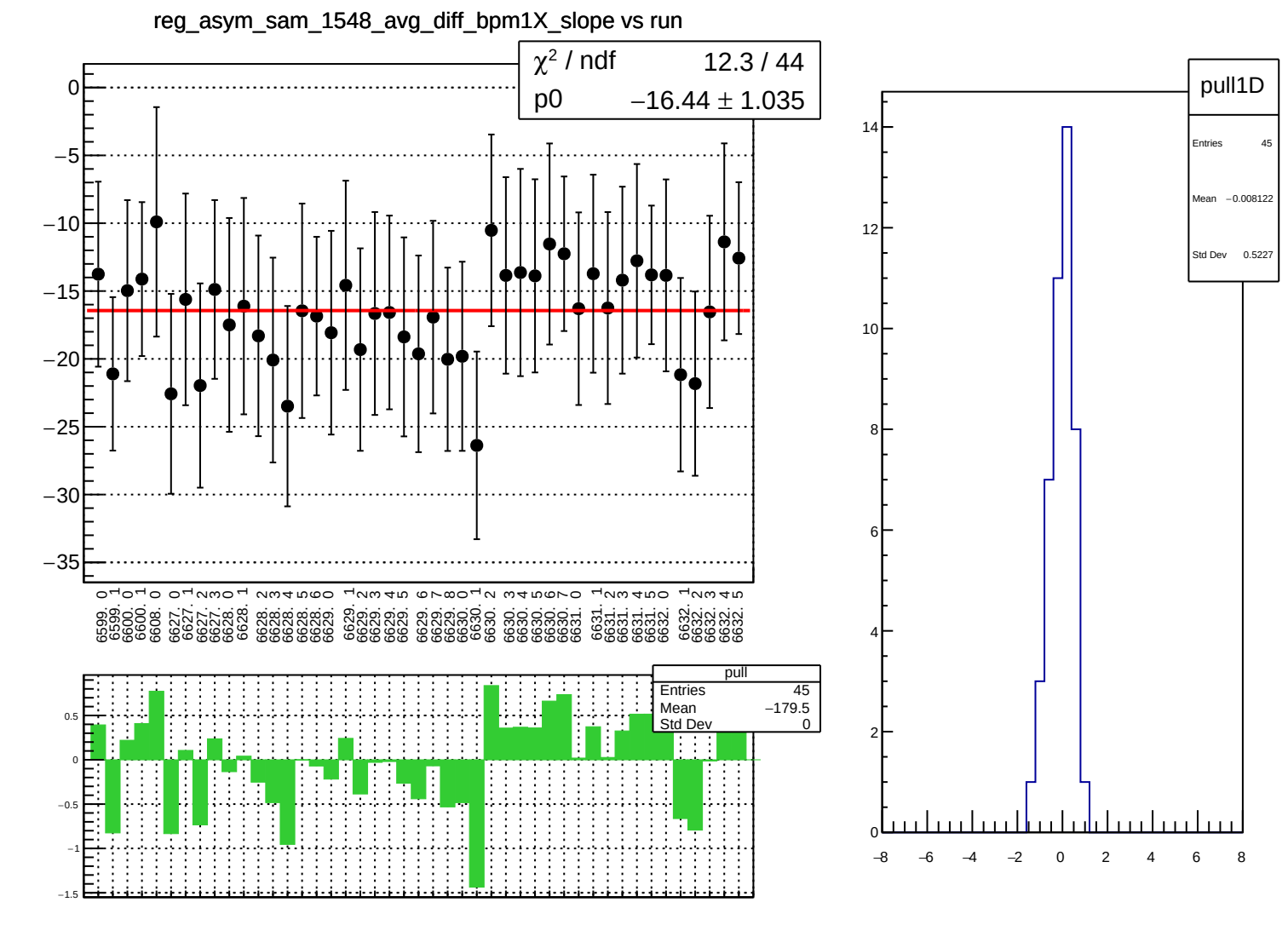

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 36.09 / 44
p0 8.701 ± 0.5286
pull
Entries 45
Mean −91.15
Std Dev 0
pull1D
Entries 45
Mean 0.01423
Std Dev 0.8954

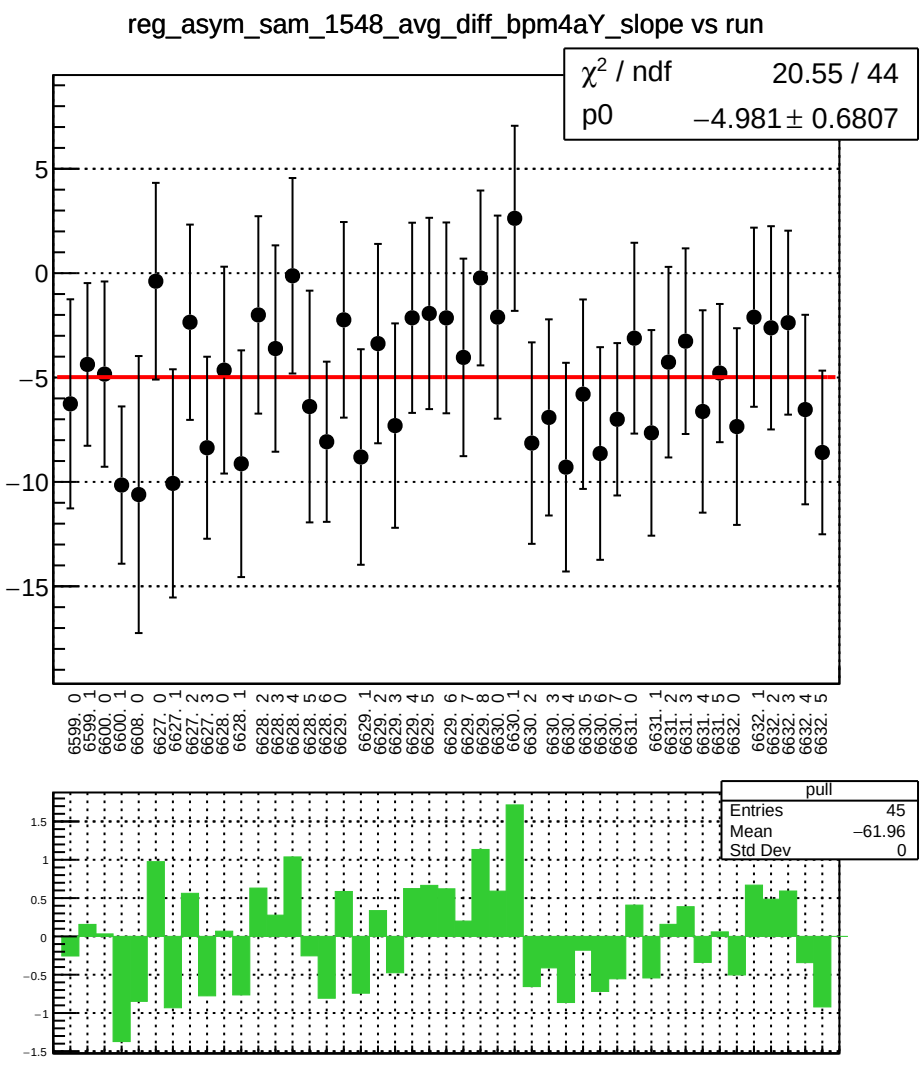

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.31 / 44
p0 12.37 ± 0.8287
25
20
15
10
5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −478.3
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.004932
Std Dev 0.5229
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

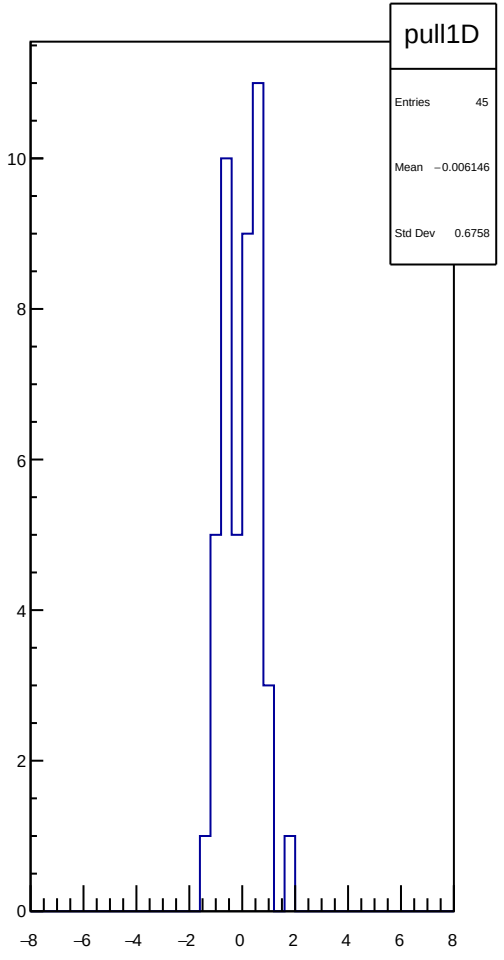

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 64.33 / 44
p0 −88.46 ± 0.6309
−80
−90
−100
−110
−120
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −4584
Std Dev 0
2
1
0
−1
−2
−3
−4

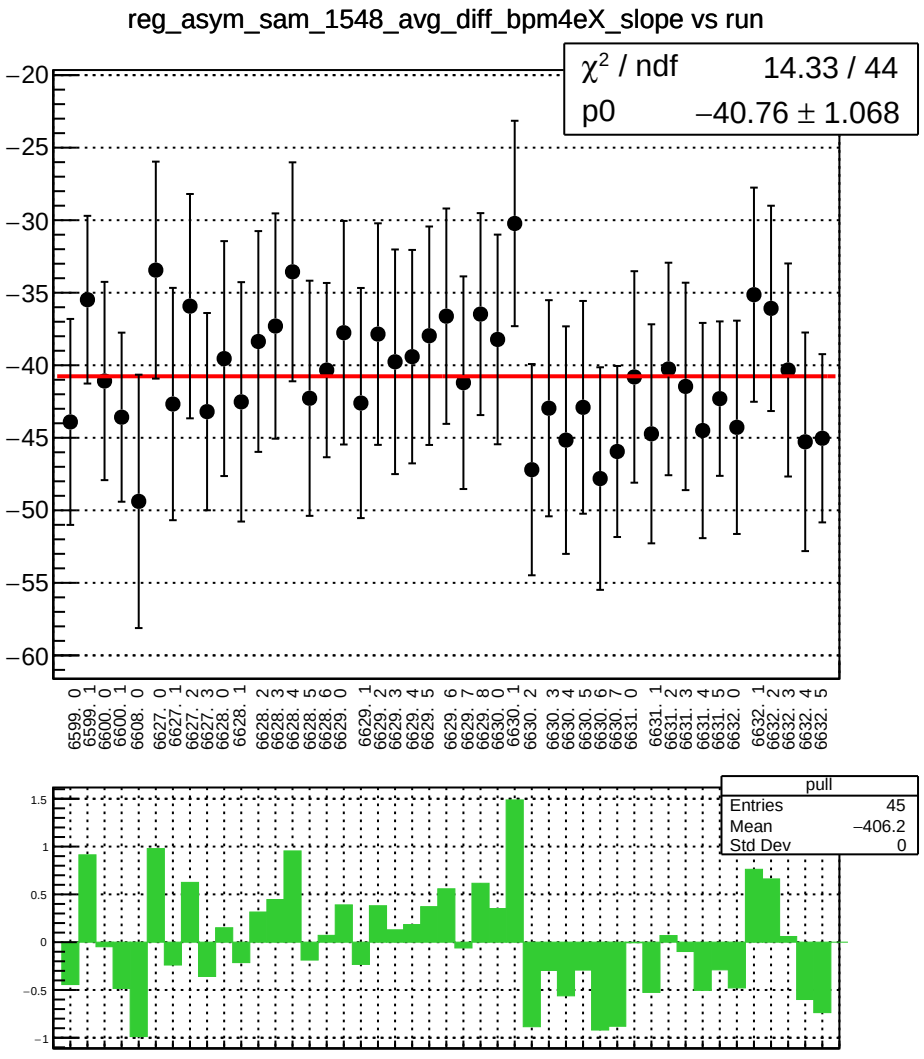

pull1D
Entries 45
Mean −0.0004317
Std Dev 1.196
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

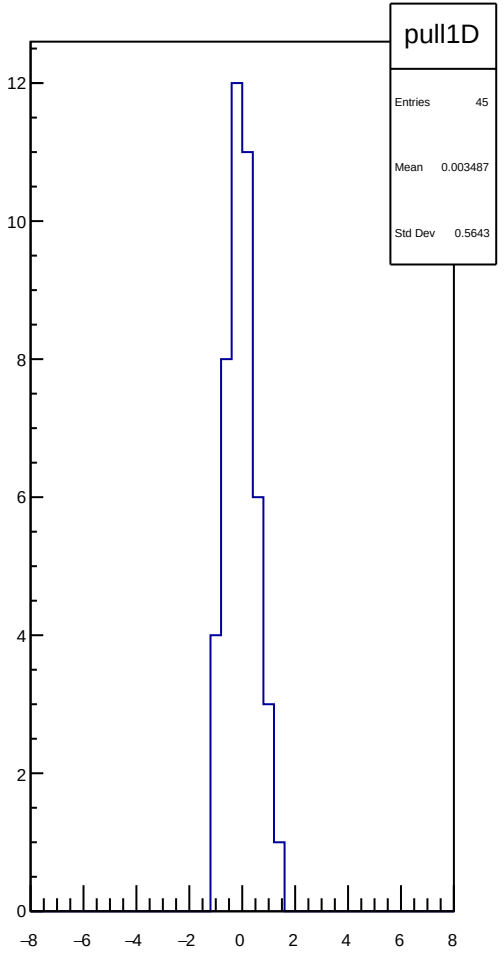

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 9.512 / 44
p0 0.2544 ± 0.03393
0.8
0.6
0.4
0.2
0
−0.2
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −69.57
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean 0.02192
Std Dev 0.4592
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

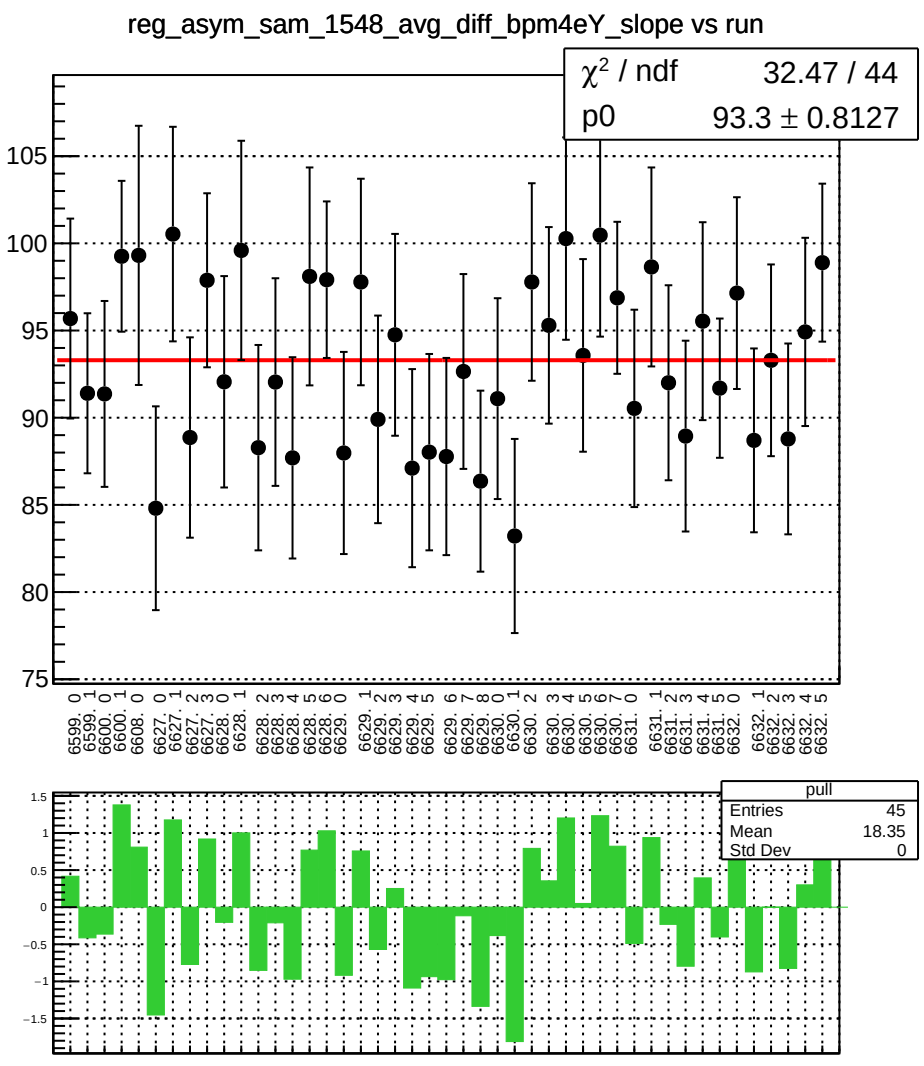

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 12.3 / 44
p0 −16.44 ± 1.035
pull
Entries 45
Mean −179.5
Std Dev 0
pull1D
Entries 45
Mean −0.008122
Std Dev 0.5227


reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.55 / 44
p0 −4.981 ± 0.6807
pull
Entries 45
Mean −61.96
Std Dev 0


pull1D
Entries 45
Mean −0.006146
Std Dev 0.6758


reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.33 / 44
p0 −40.76 ± 1.068
pull
Entries 45
Mean −406.2
Std Dev 0


pull1D
Entries 45
Mean 0.003487
Std Dev 0.5643


reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 32.47 / 44
p0 93.3 ± 0.8127
105
100
95
90
85
80
75
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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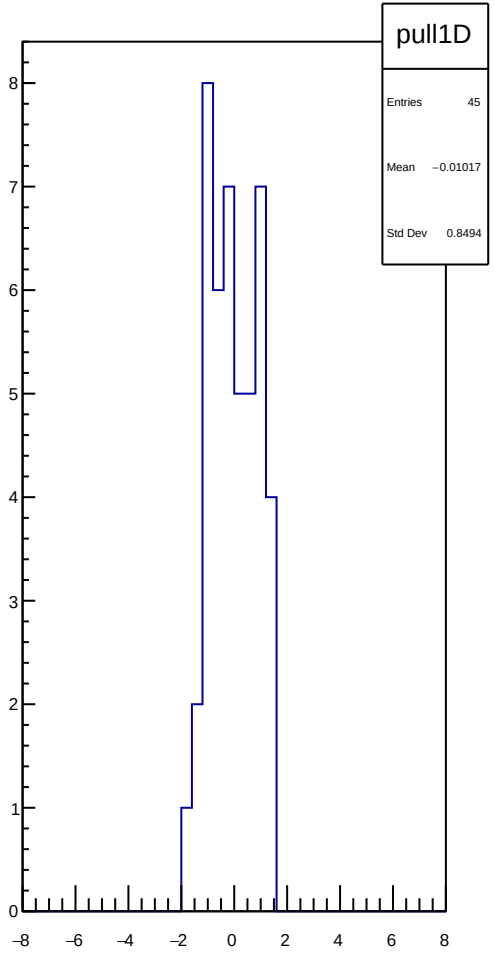
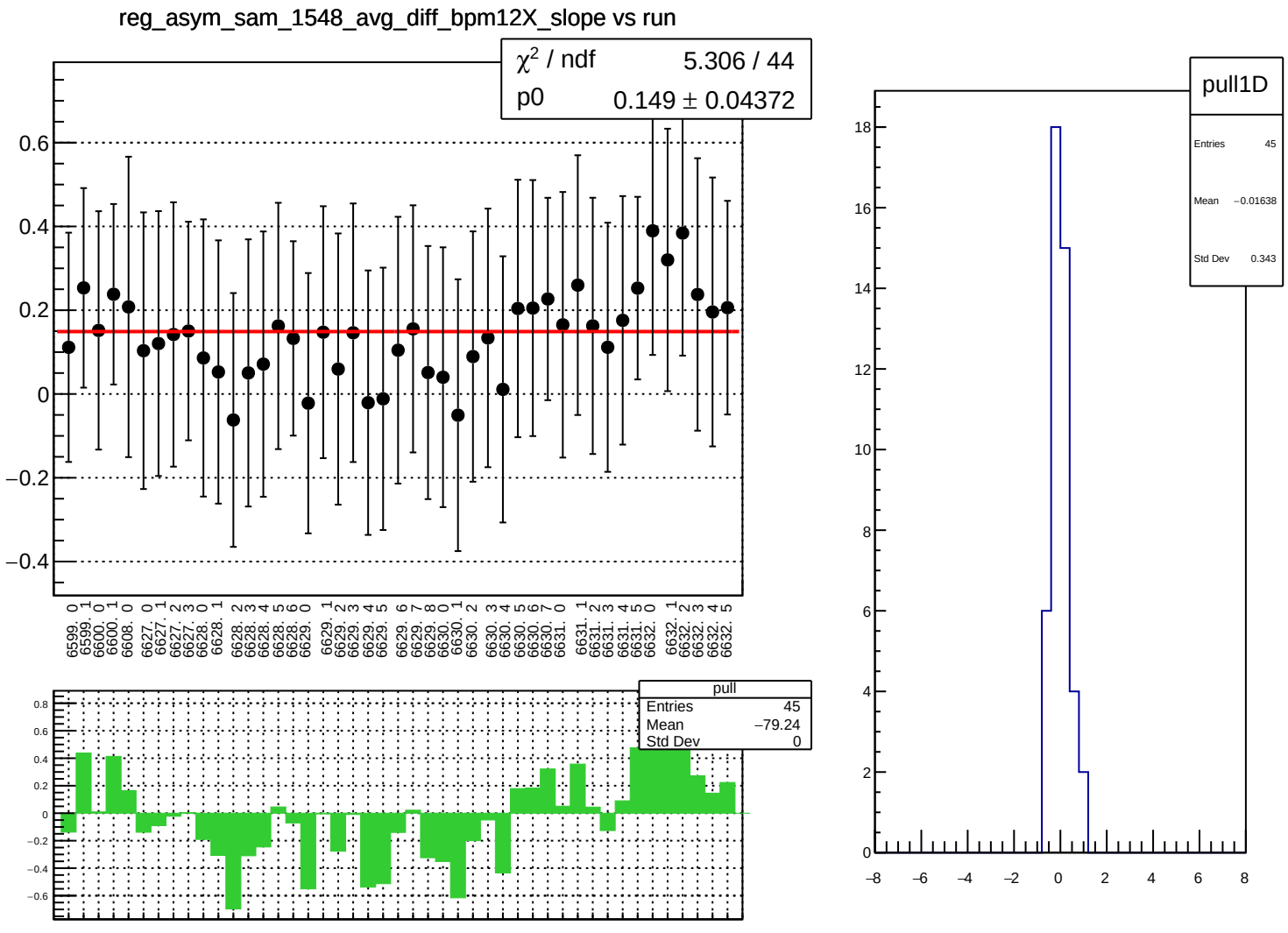
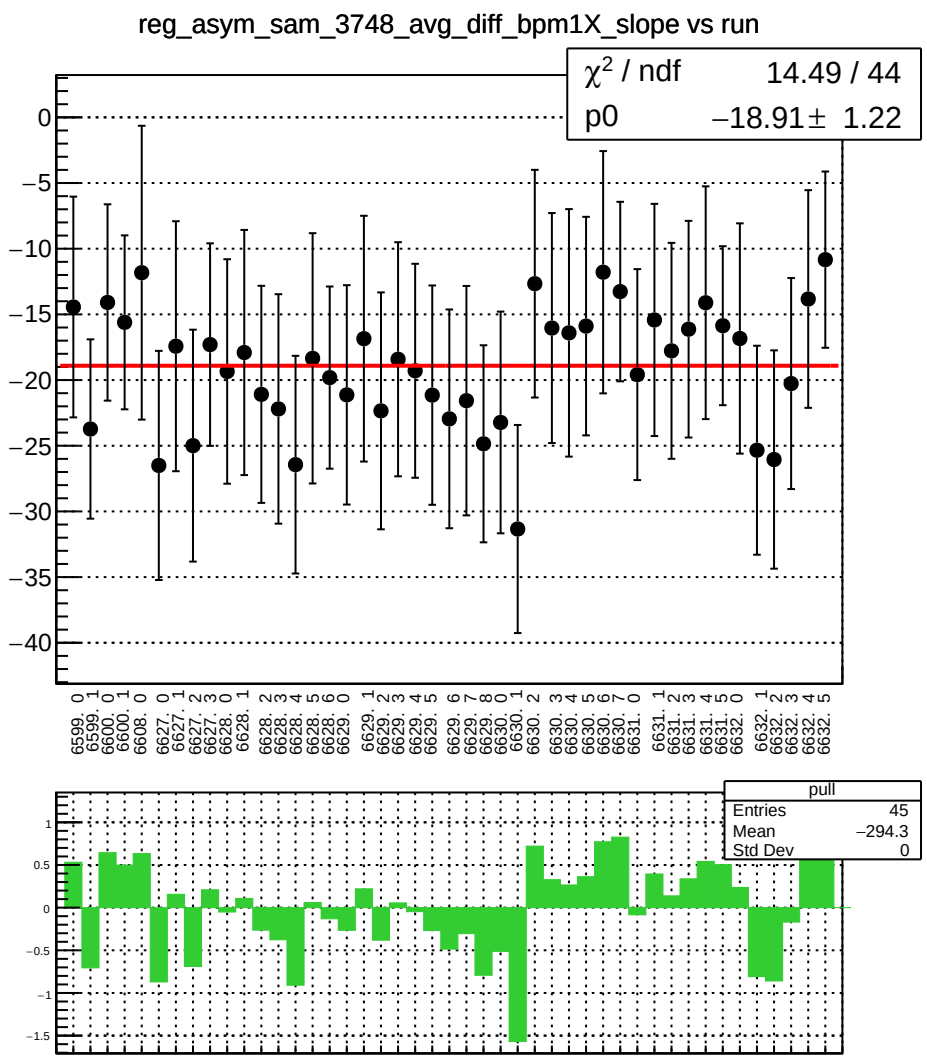
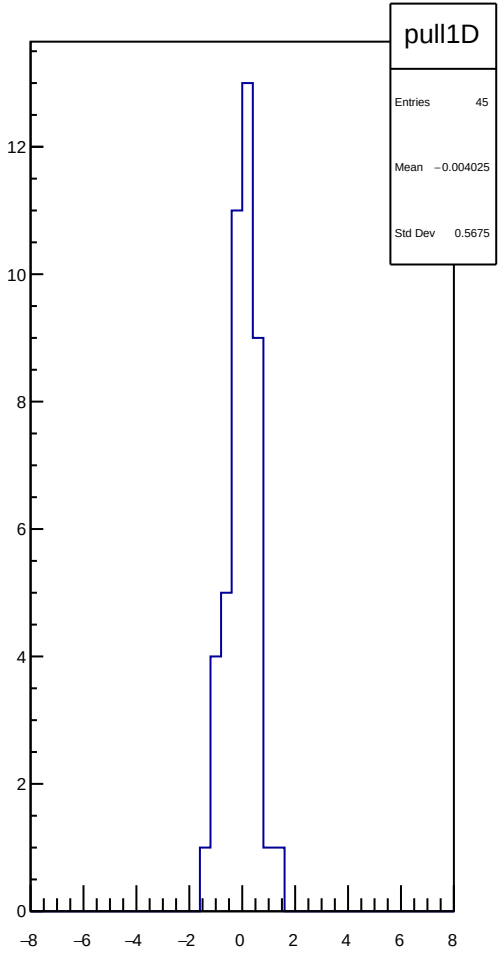
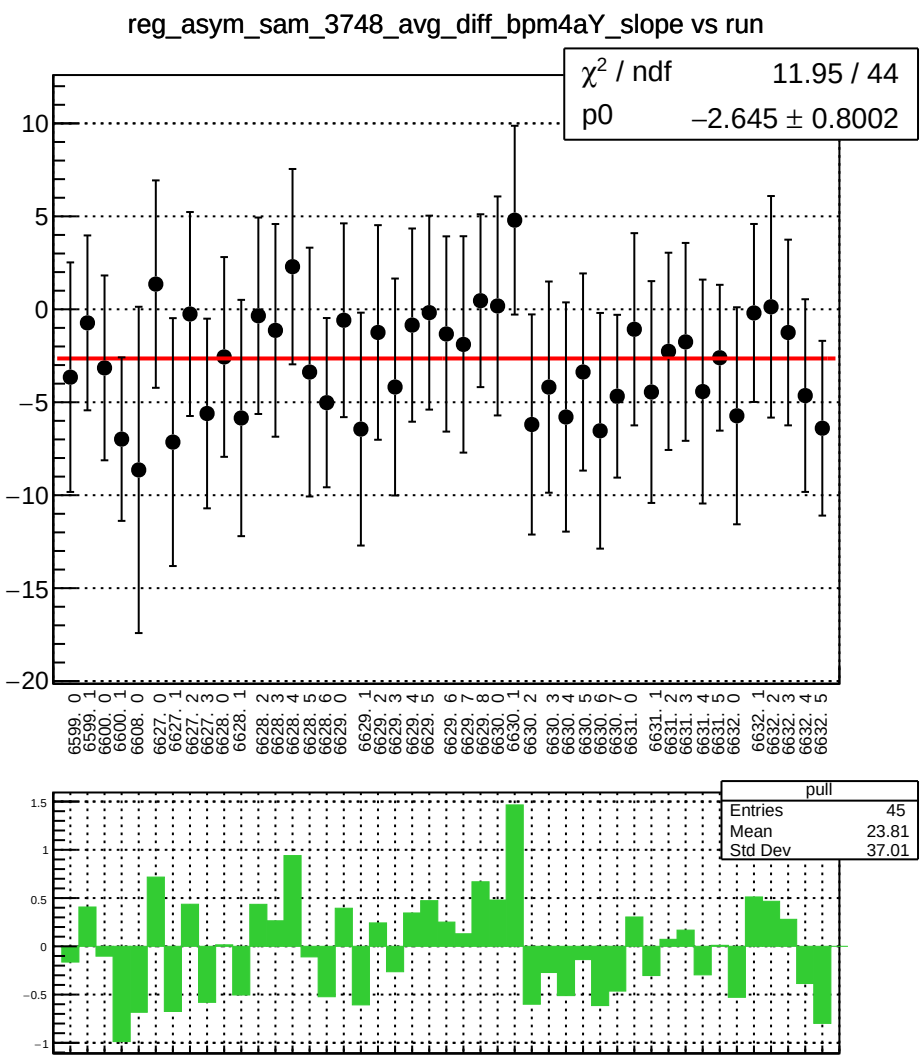
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 18.35
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

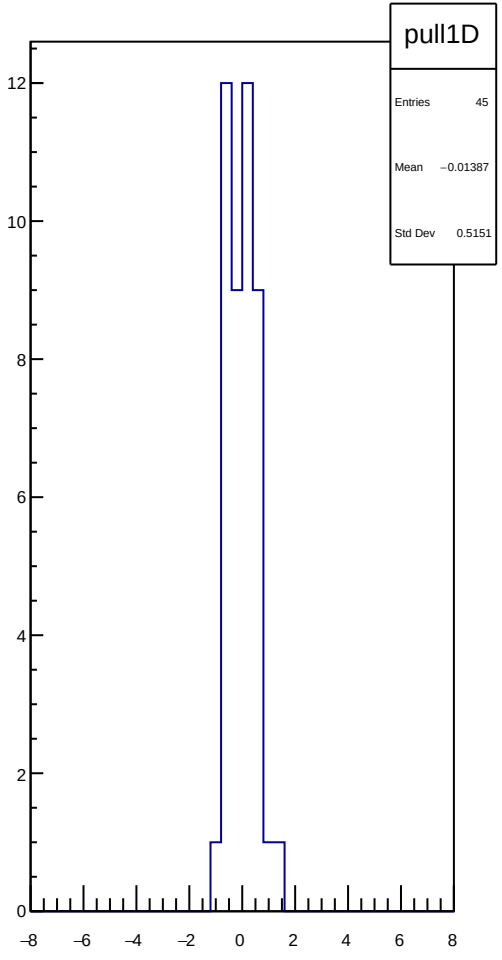

pull1D
Entries 45
Mean −0.01017
Std Dev 0.8494
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

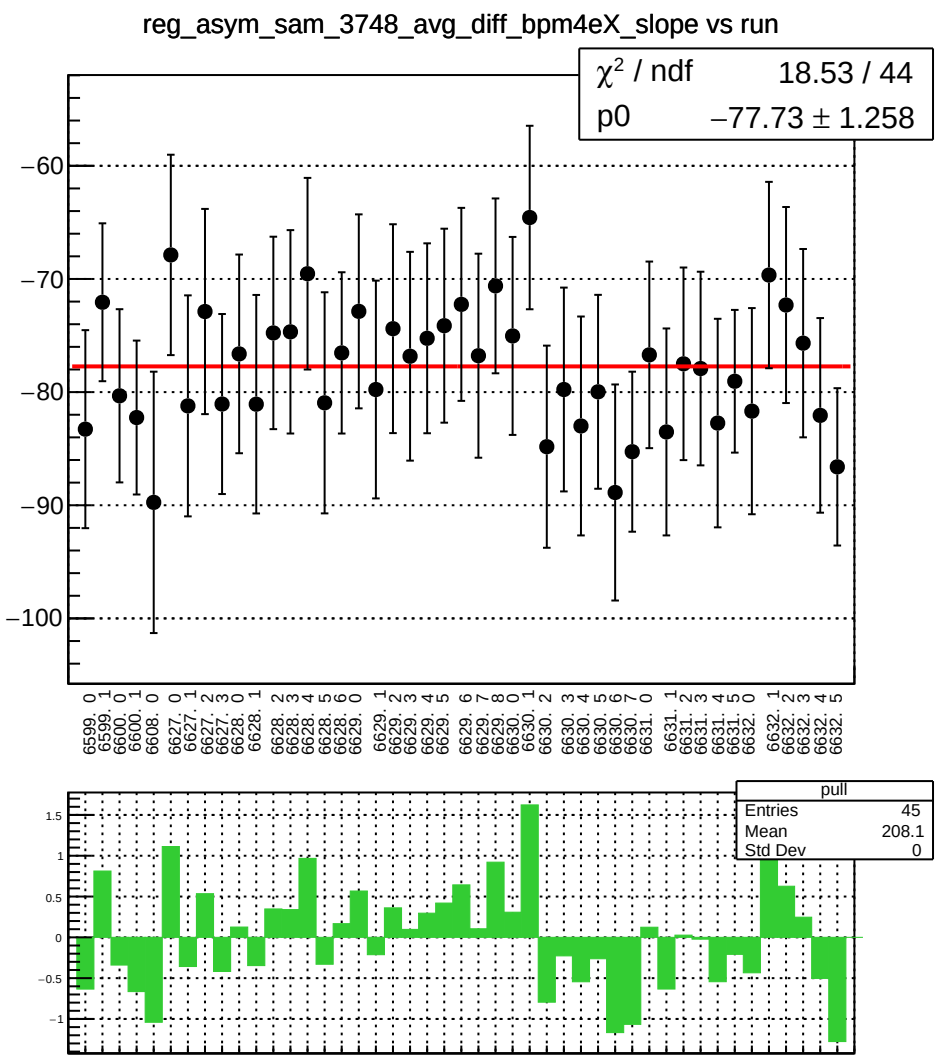

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 5.306 / 44
p0 0.149 ± 0.04372
pull
Entries 45
Mean −79.24
Std Dev 0
pull1D
Entries 45
Mean −0.01638
Std Dev 0.343

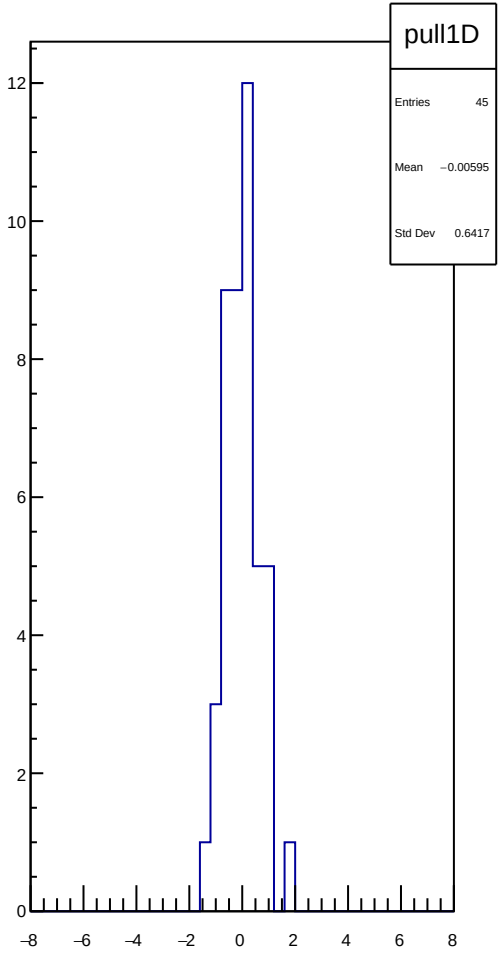

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 14.49 / 44
p0 −18.91 ± 1.22
pull
Entries 45
Mean −294.3
Std Dev 0

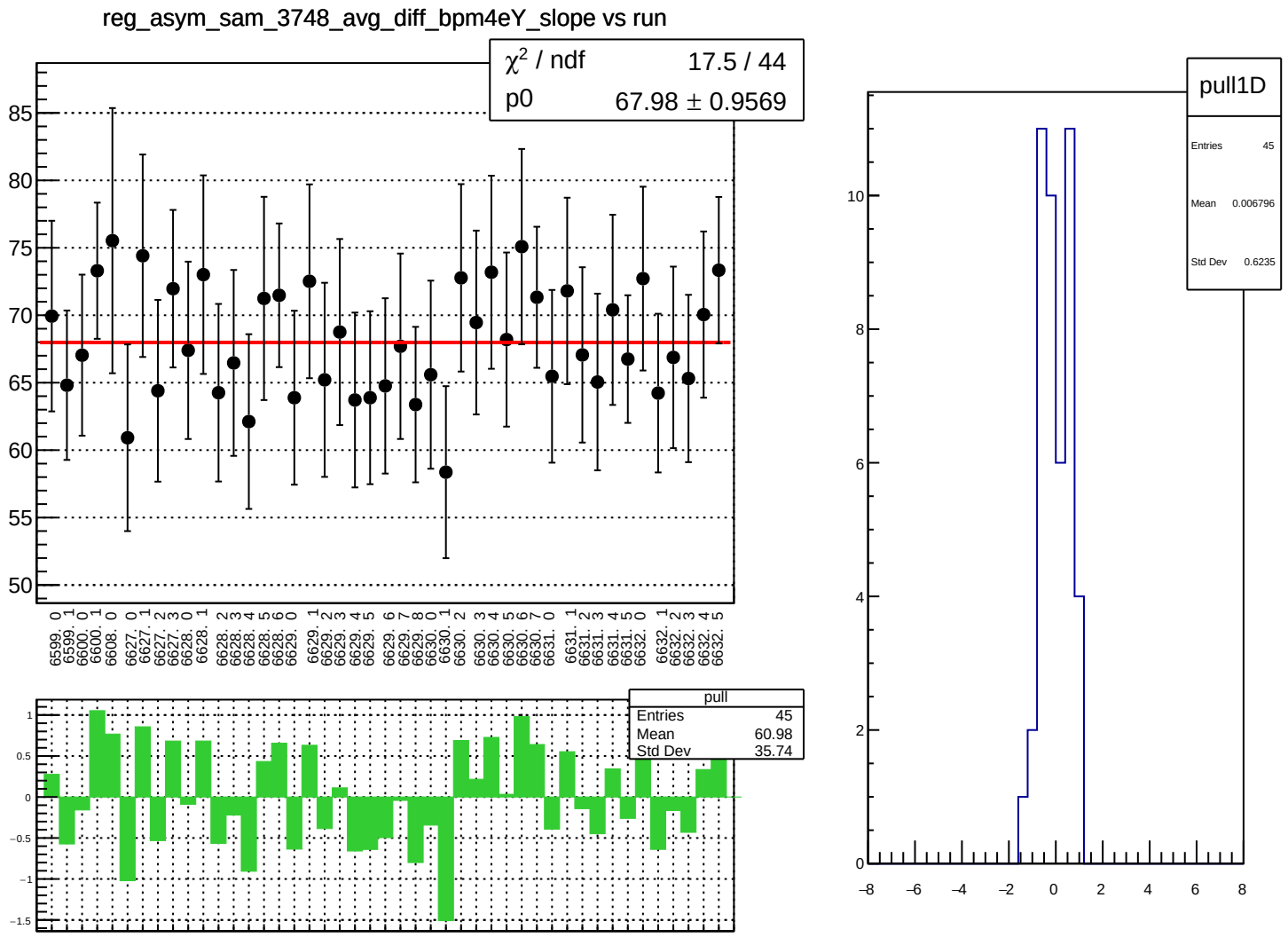

pull1D
Entries 45
Mean −0.004025
Std Dev 0.5675

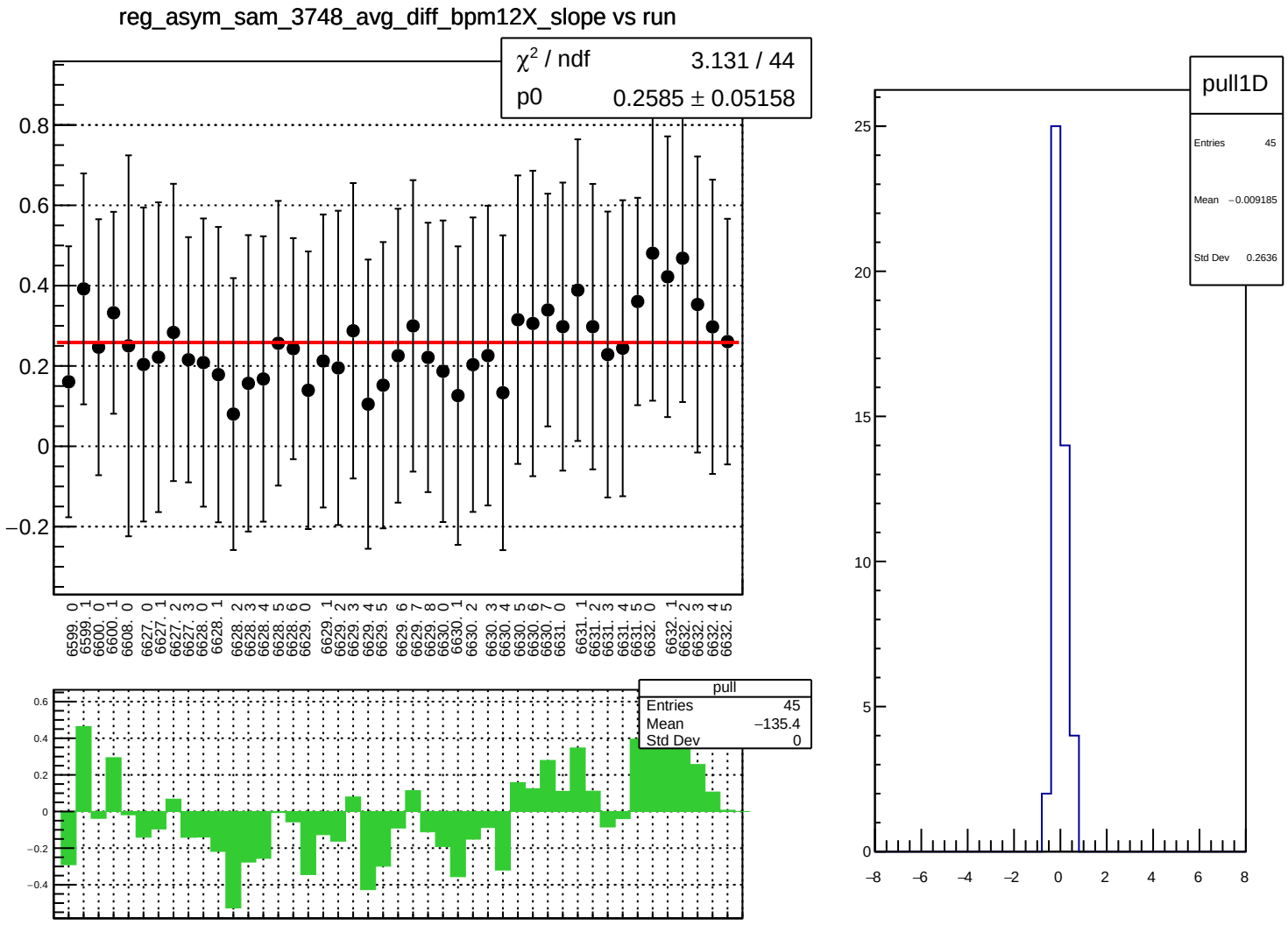

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.95 / 44
p0 −2.645 ± 0.8002
pull
Entries 45
Mean 23.81
Std Dev 37.01

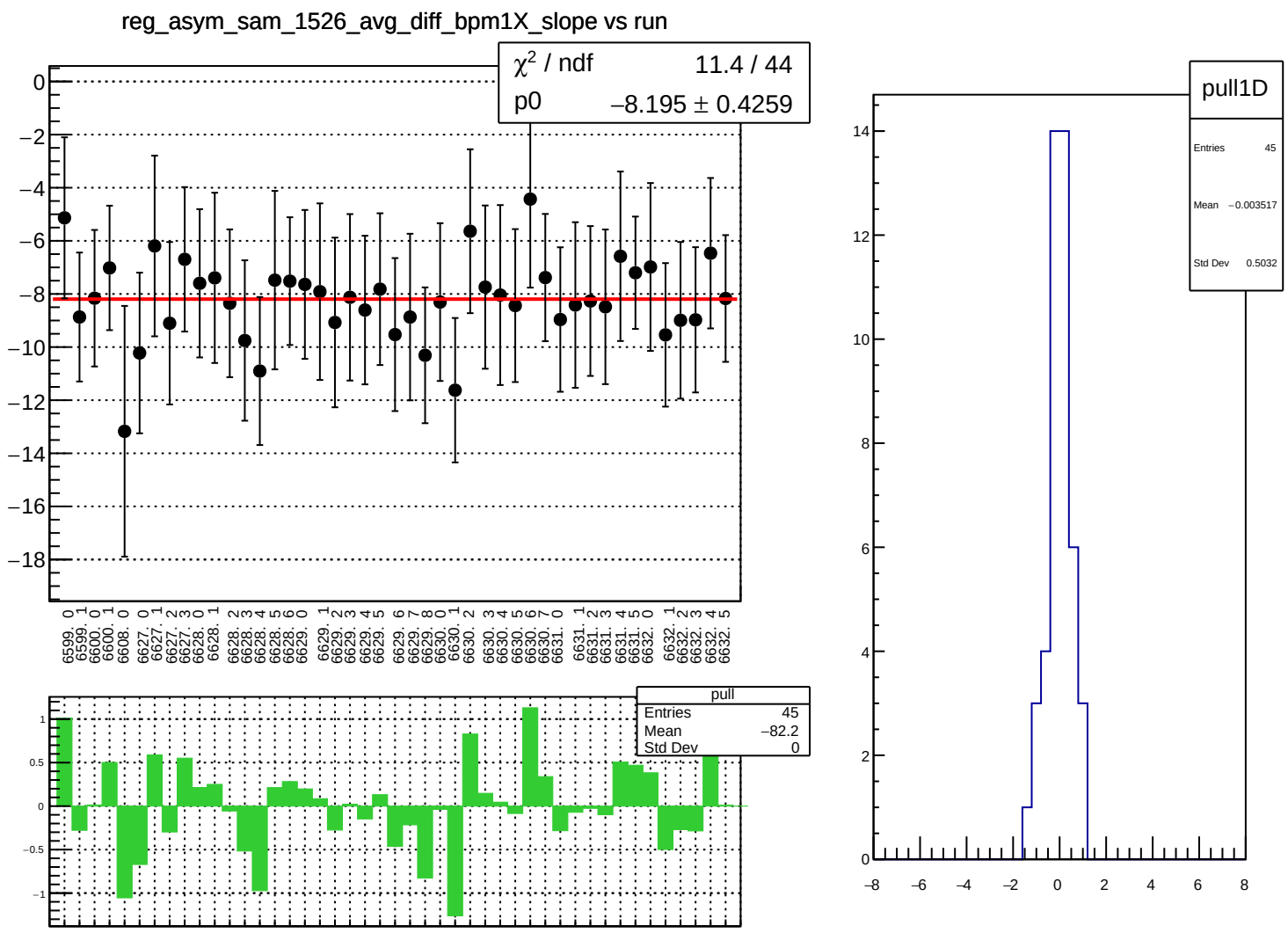

pull1D
Entries 45
Mean −0.01387
Std Dev 0.5151

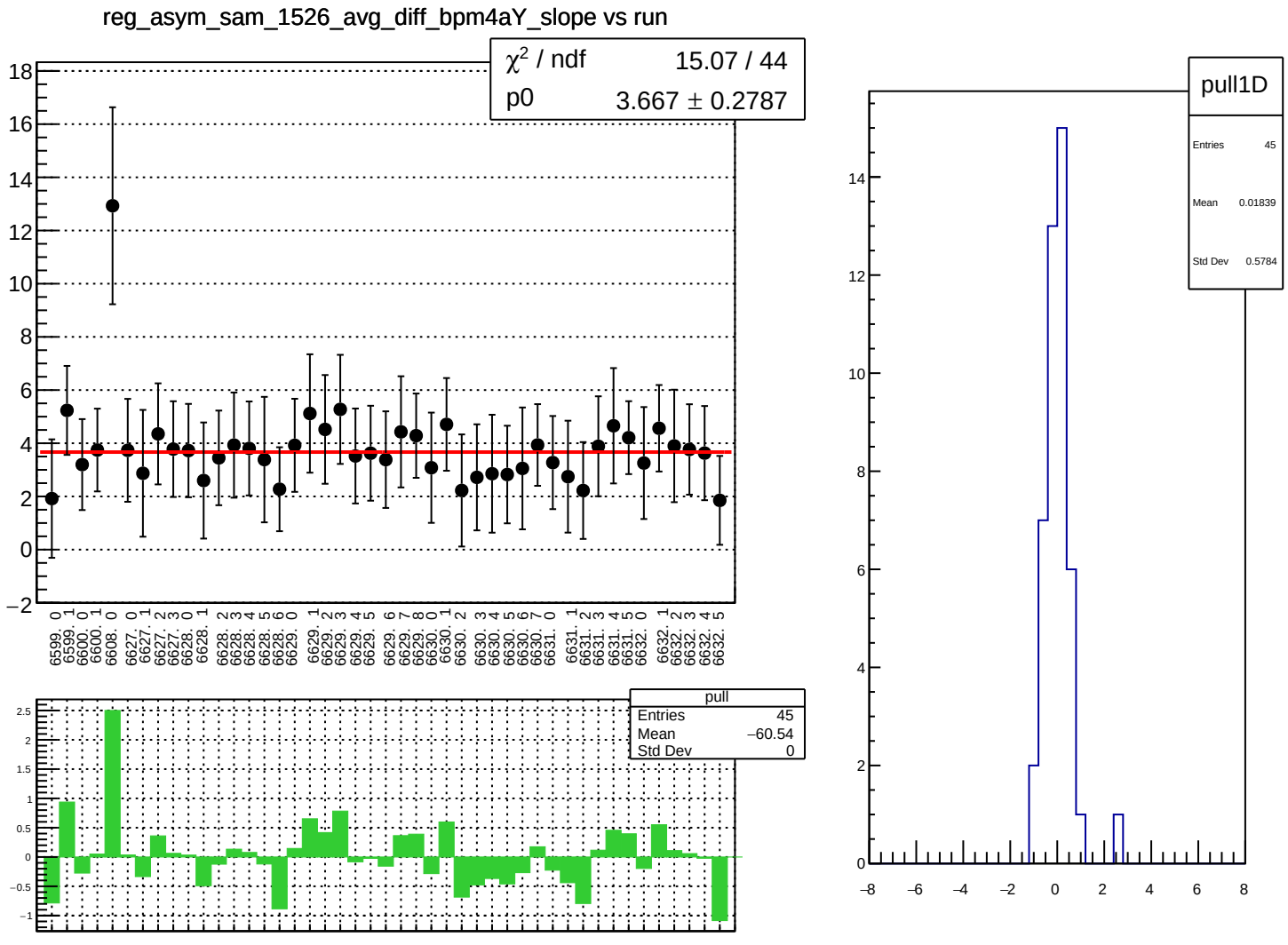

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.53 / 44
p0 −77.73 ± 1.258
pull
Entries 45
Mean 208.1
Std Dev 0

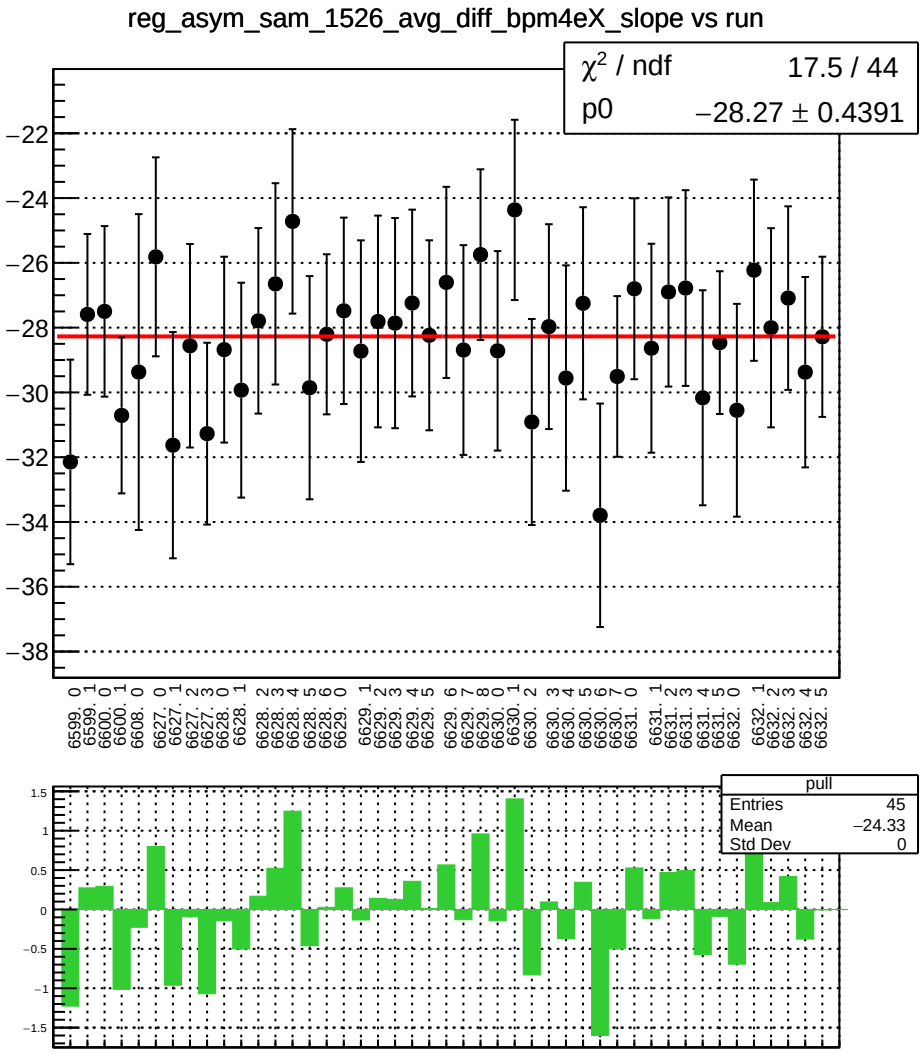

pull1D
Entries 45
Mean −0.00595
Std Dev 0.6417

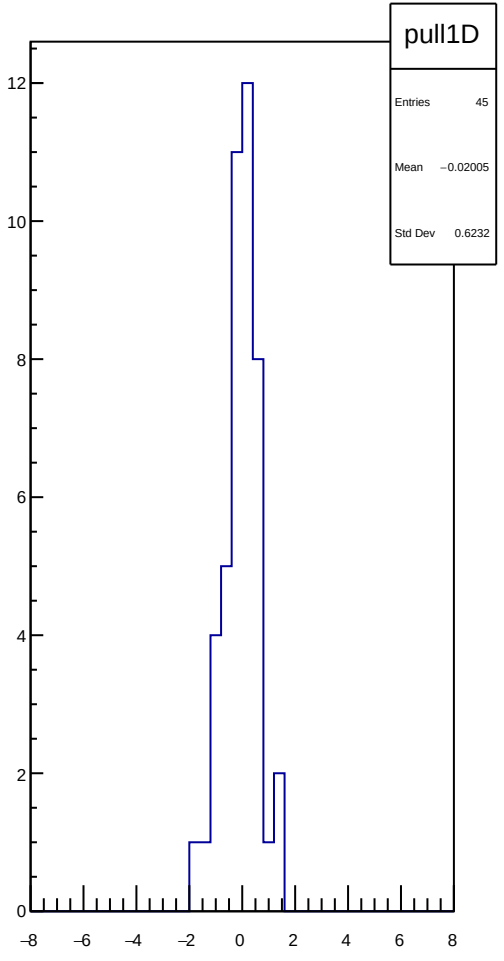

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.5 / 44
p0 67.98 ± 0.9569
pull
Entries 45
Mean 60.98
Std Dev 35.74
pull1D
Entries 45
Mean 0.006796
Std Dev 0.6235

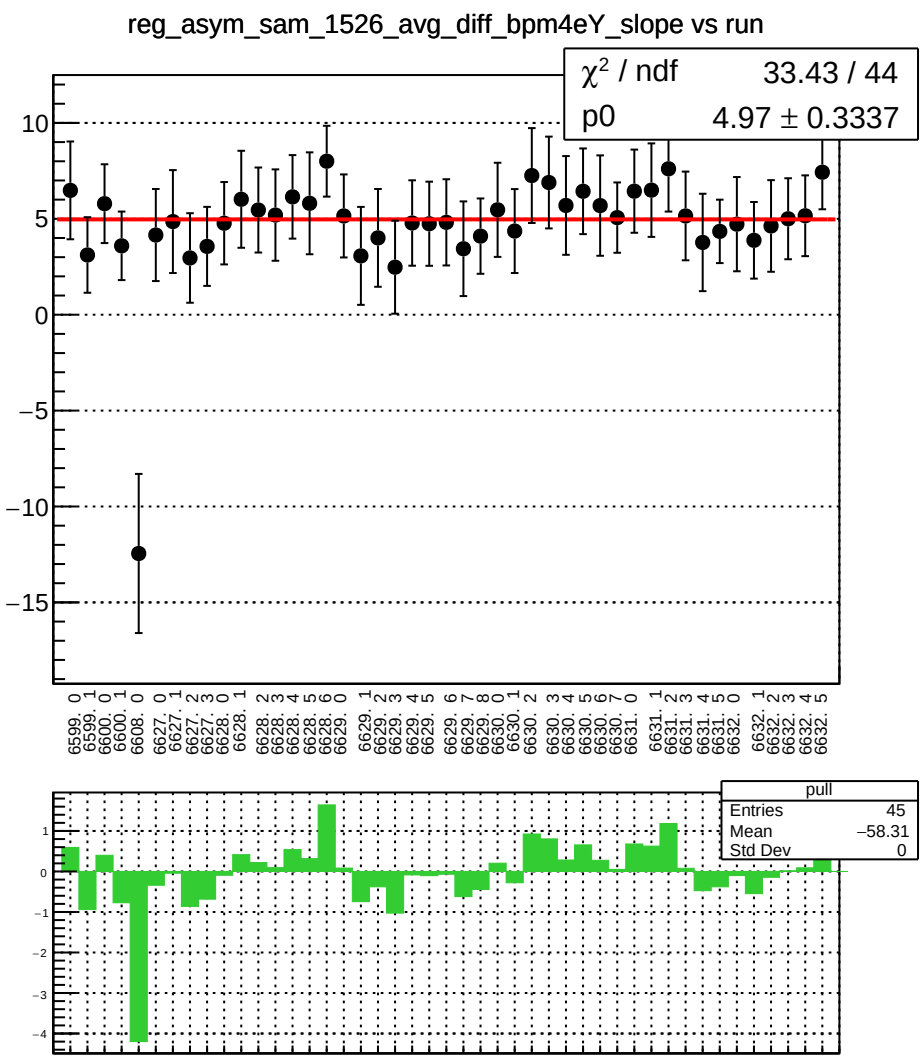

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 3.131 / 44
p0 0.2585 ± 0.05158
pull
Entries 45
Mean −135.4
Std Dev 0
pull1D
Entries 45
Mean −0.009185
Std Dev 0.2636

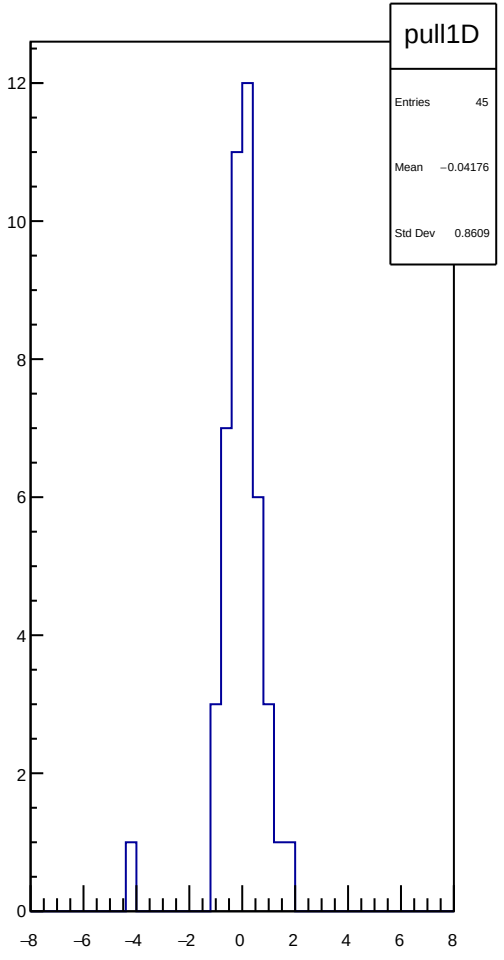

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 11.4 / 44
p0 −8.195 ± 0.4259
pull
Entries 45
Mean −82.2
Std Dev 0
pull1D
Entries 45
Mean −0.003517
Std Dev 0.5032

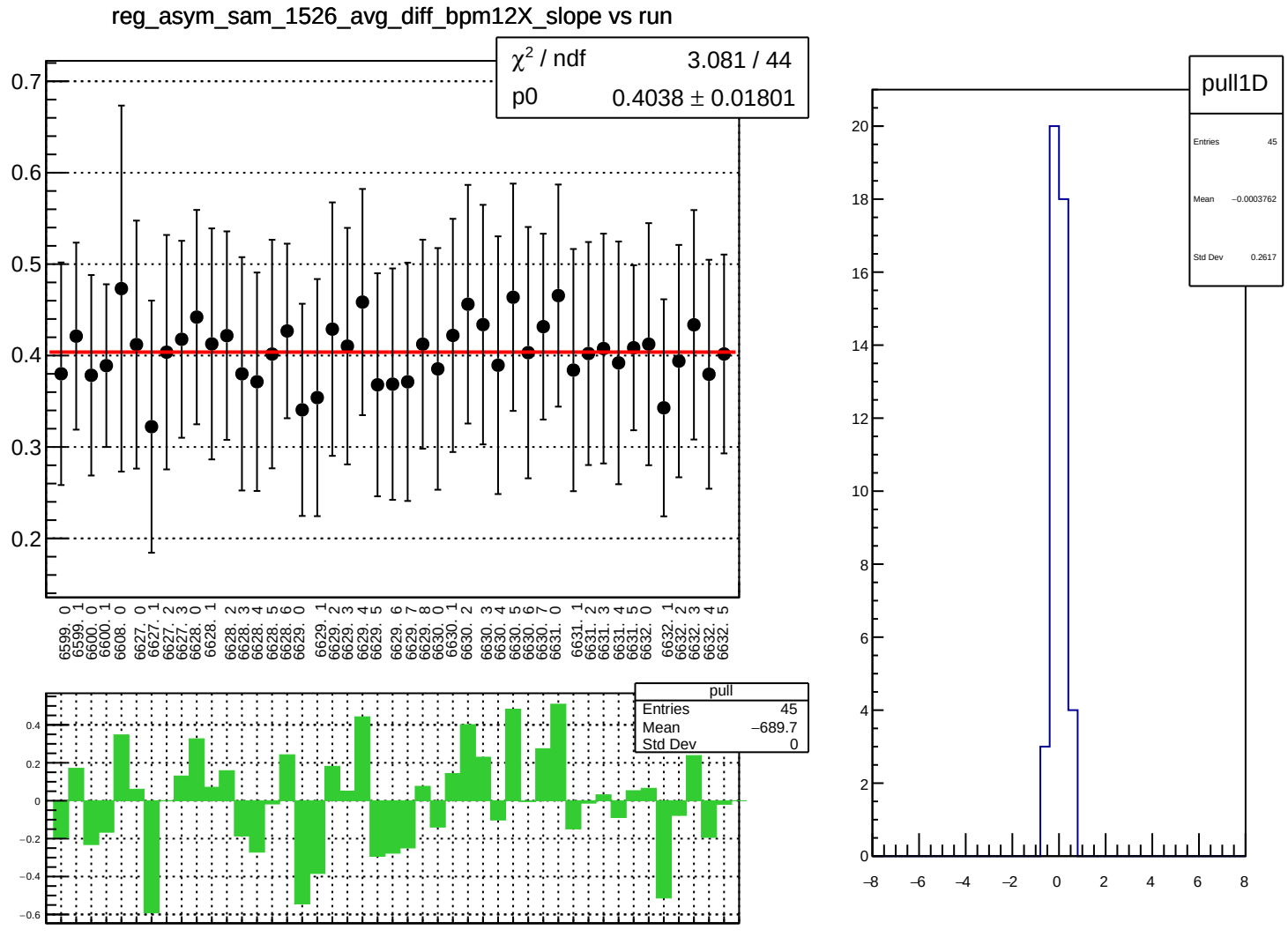

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.07 / 44
p0 3.667 ± 0.2787
pull
Entries 45
Mean −60.54
Std Dev 0
pull1D
Entries 45
Mean 0.01839
Std Dev 0.5784

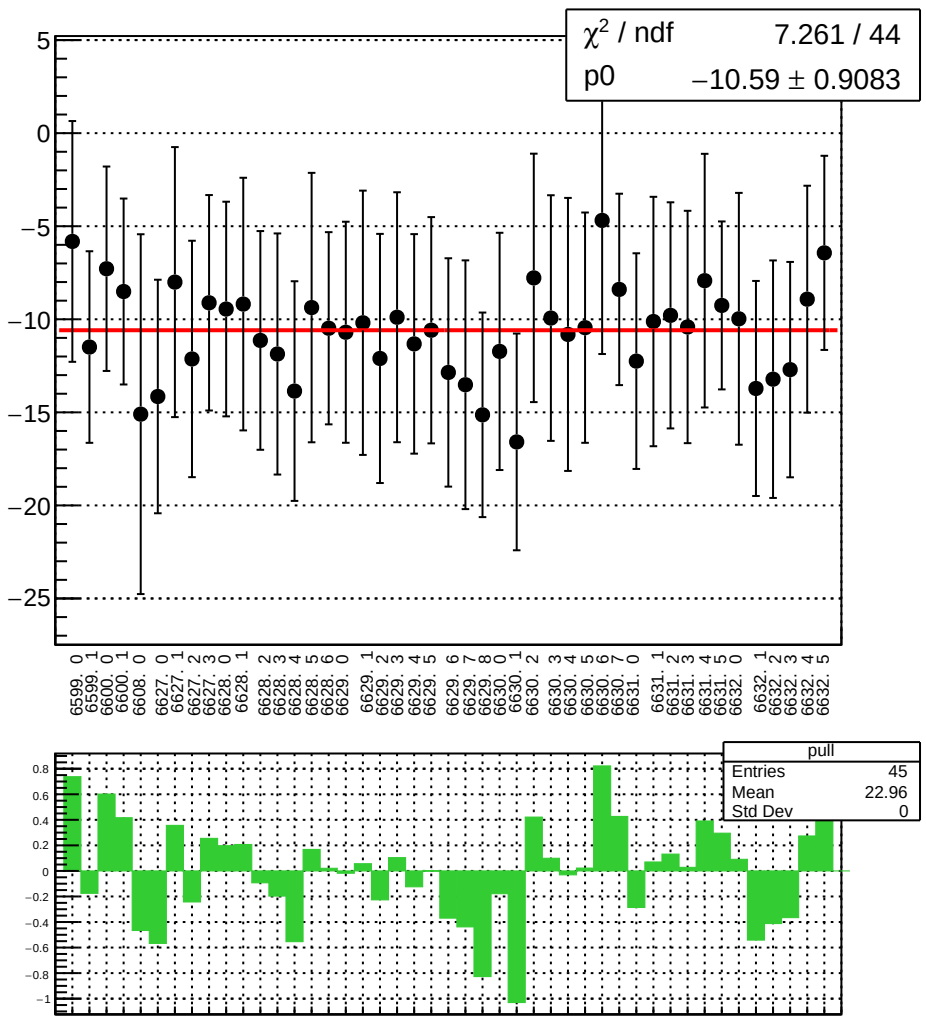

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.5 / 44
p0 −28.27 ± 0.4391
pull
Entries 45
Mean −24.33
Std Dev 0

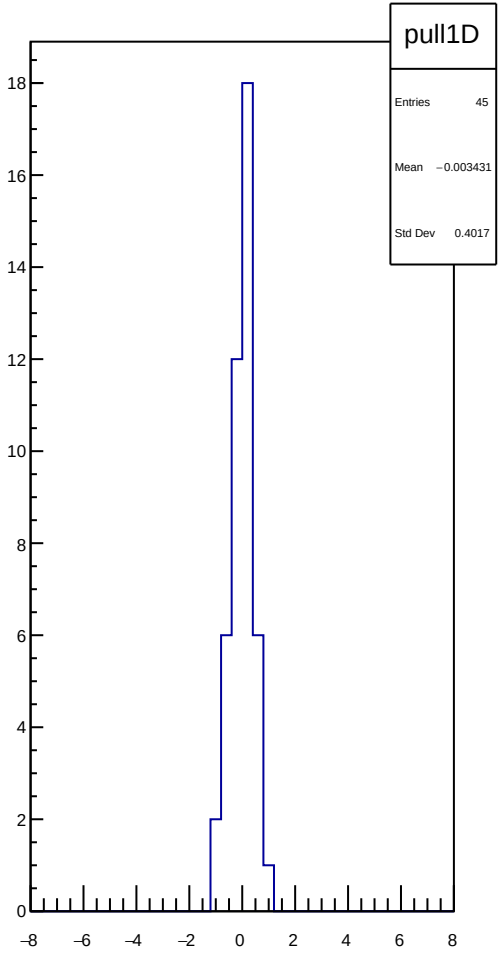

pull1D
Entries 45
Mean −0.02005
Std Dev 0.6232

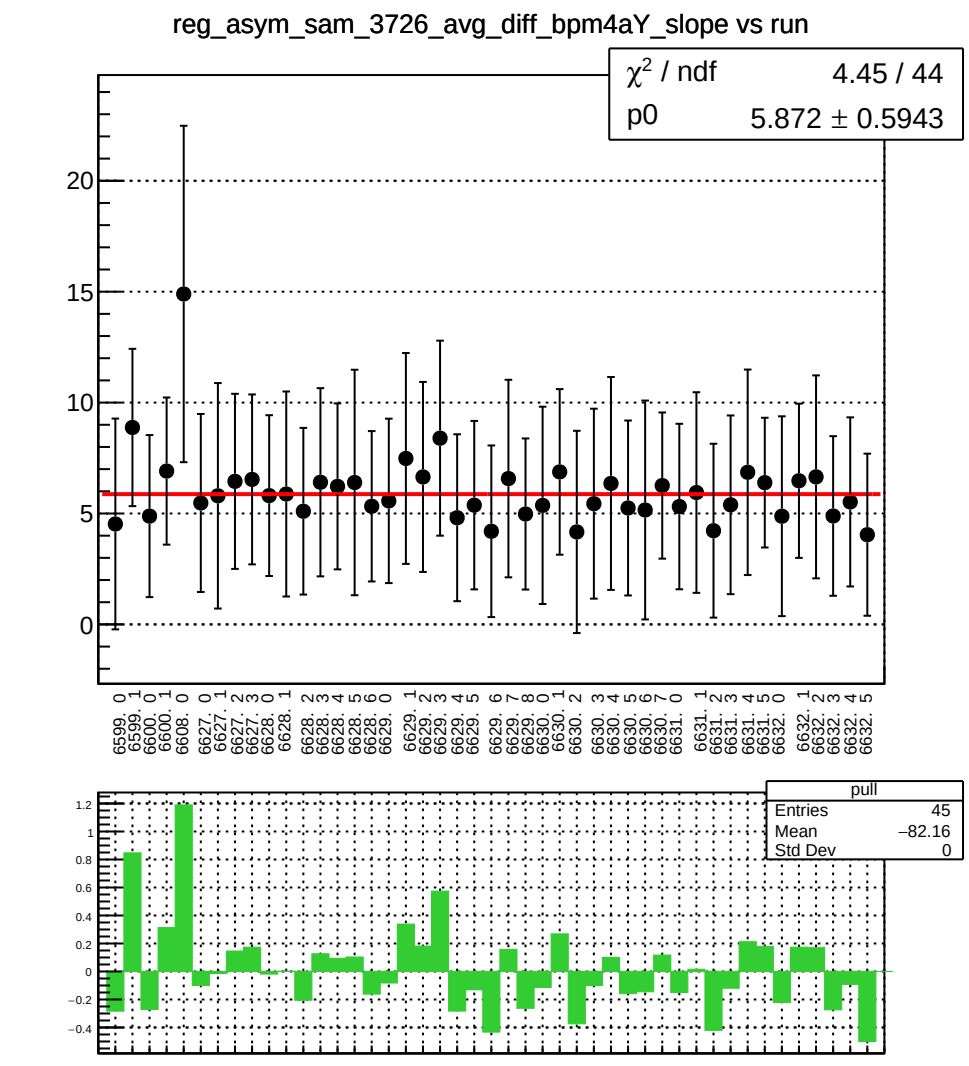

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 33.43 / 44
p0 4.97 ± 0.3337
pull
Entries 45
Mean −58.31
Std Dev 0

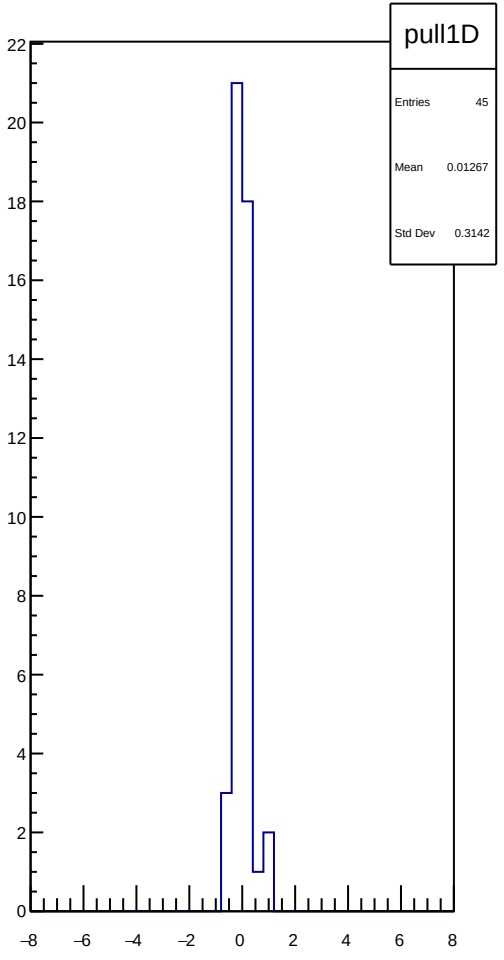

pull1D
Entries 45
Mean −0.04176
Std Dev 0.8609

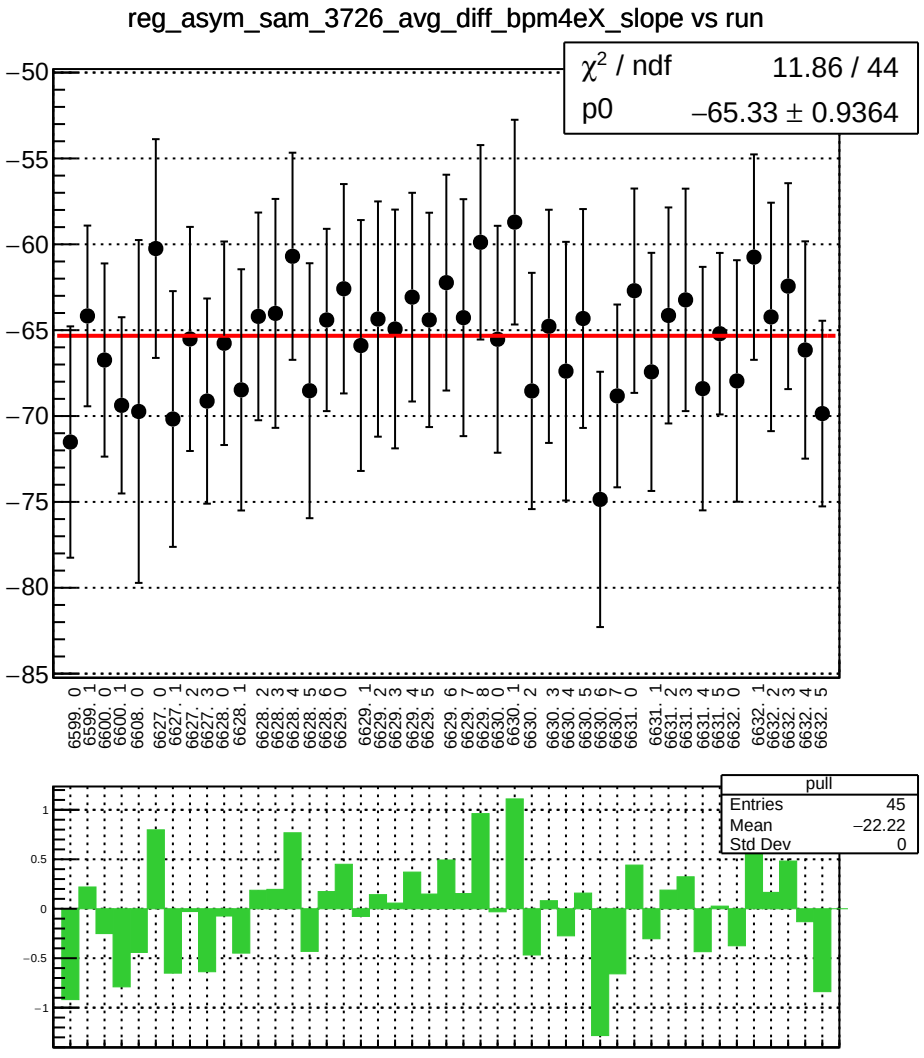

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 3.081 / 44
p0 0.4038 ± 0.01801
0.7
0.6
0.5
0.4
0.3
0.2
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −689.7
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 45
Mean −0.0003762
Std Dev 0.2617
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

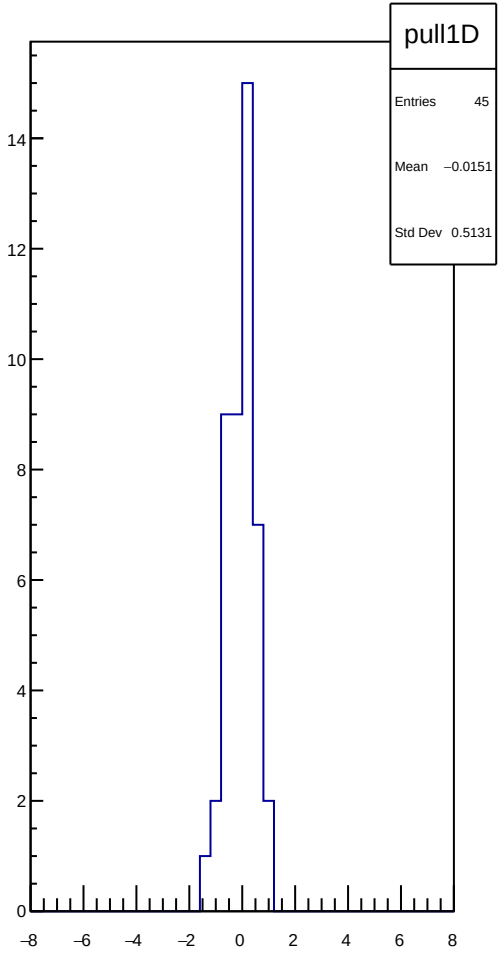

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 7.261 / 44
p0 −10.59 ± 0.9083
pull
Entries 45
Mean 22.96
Std Dev 0

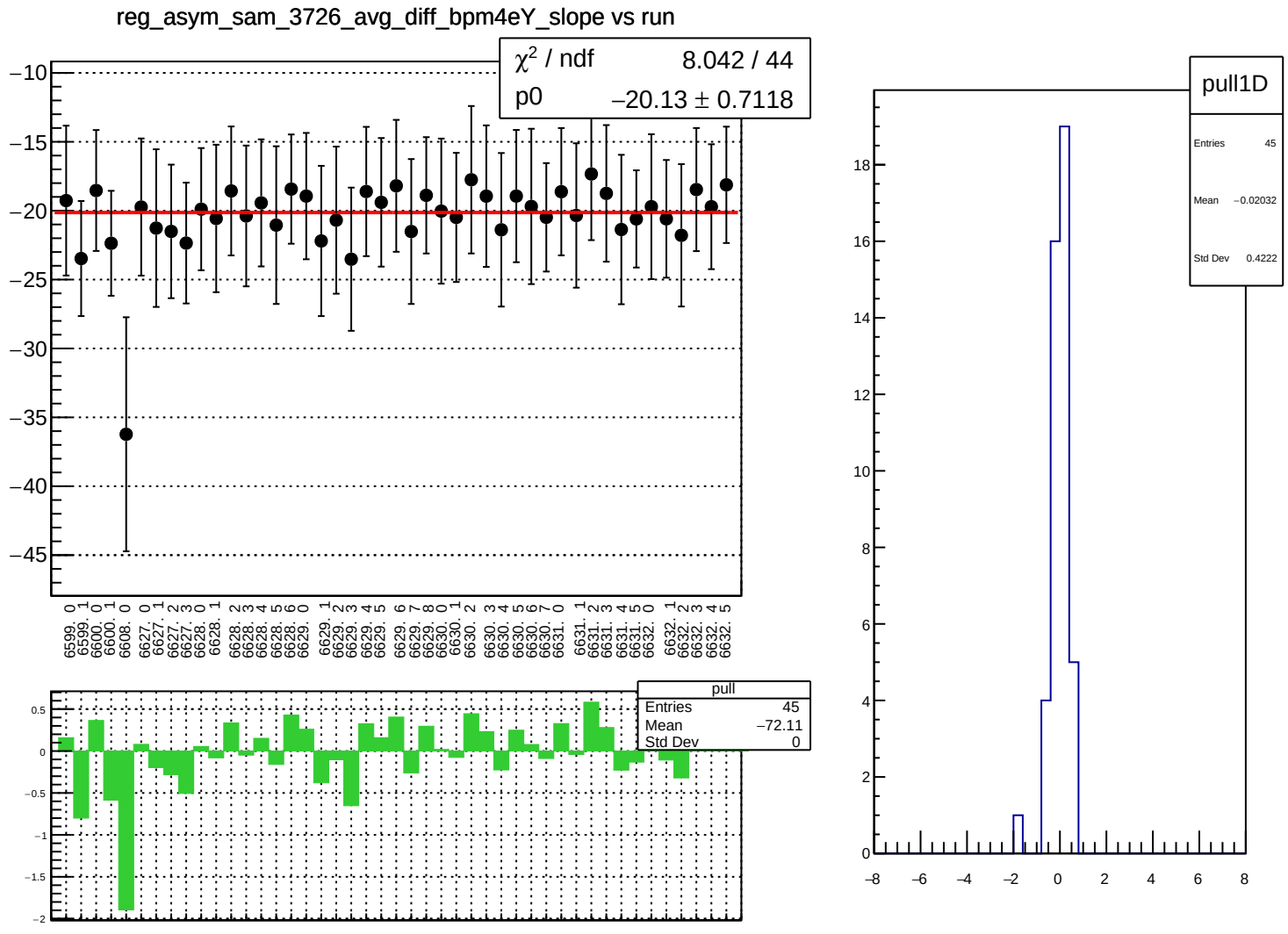

pull1D
Entries 45
Mean −0.003431
Std Dev 0.4017

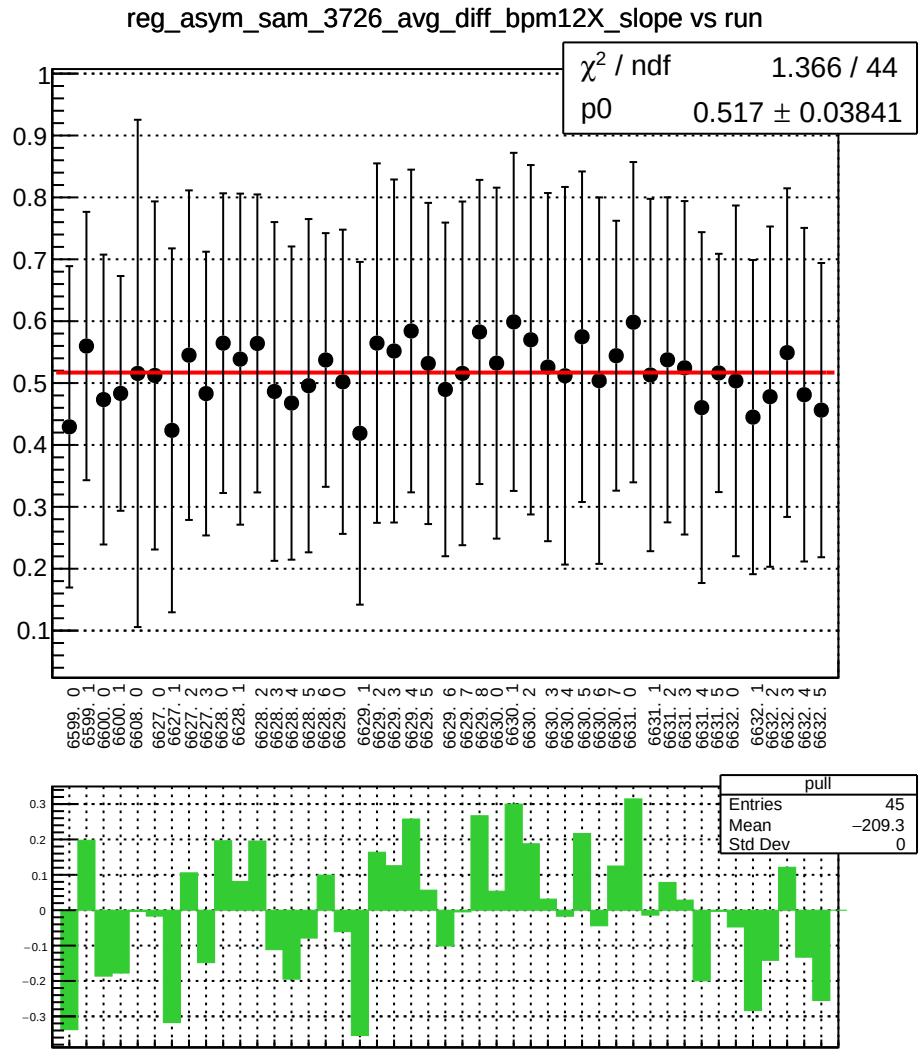

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.45 / 44
p0 5.872 ± 0.5943
pull
Entries 45
Mean −82.16
Std Dev 0

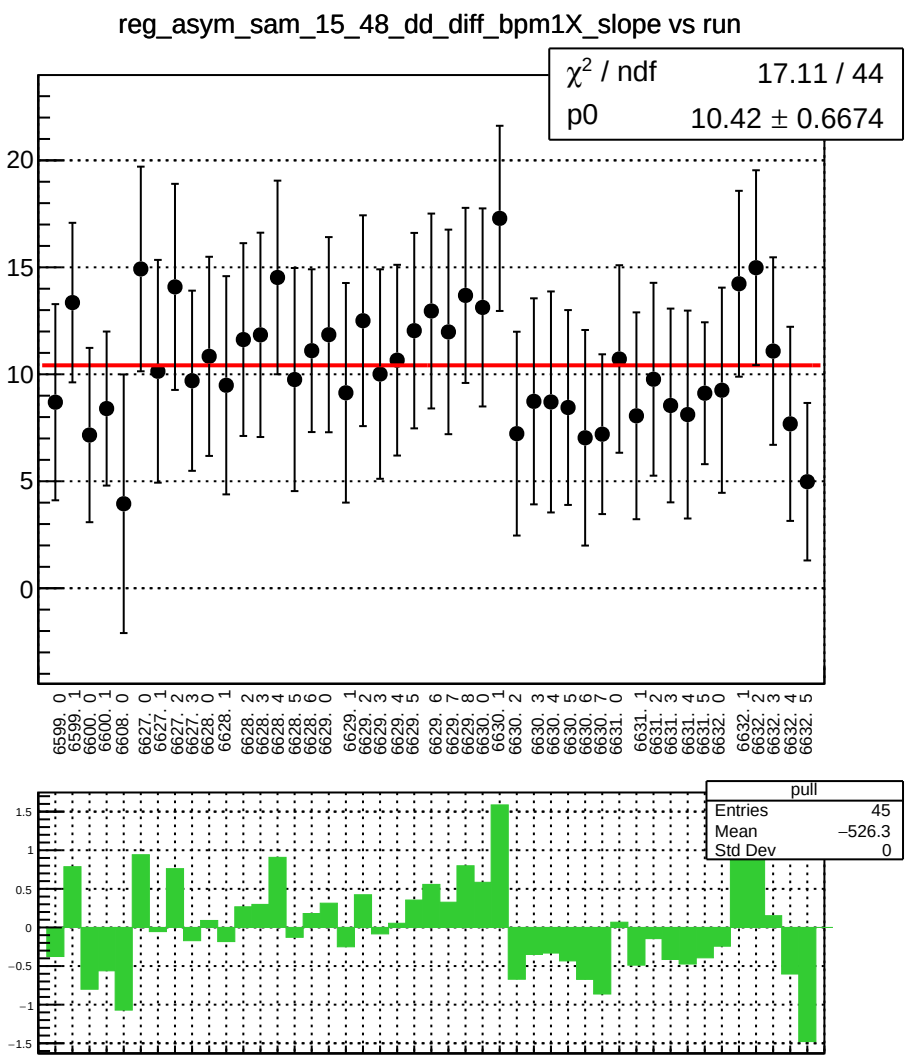

pull1D
Entries 45
Mean 0.01267
Std Dev 0.3142

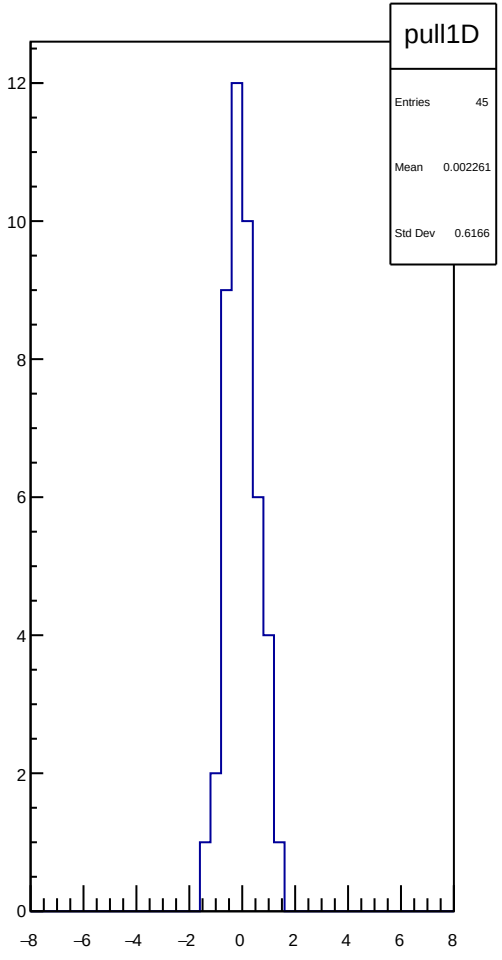

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.86 / 44
p0 −65.33 ± 0.9364
pull
Entries 45
Mean −22.22
Std Dev 0

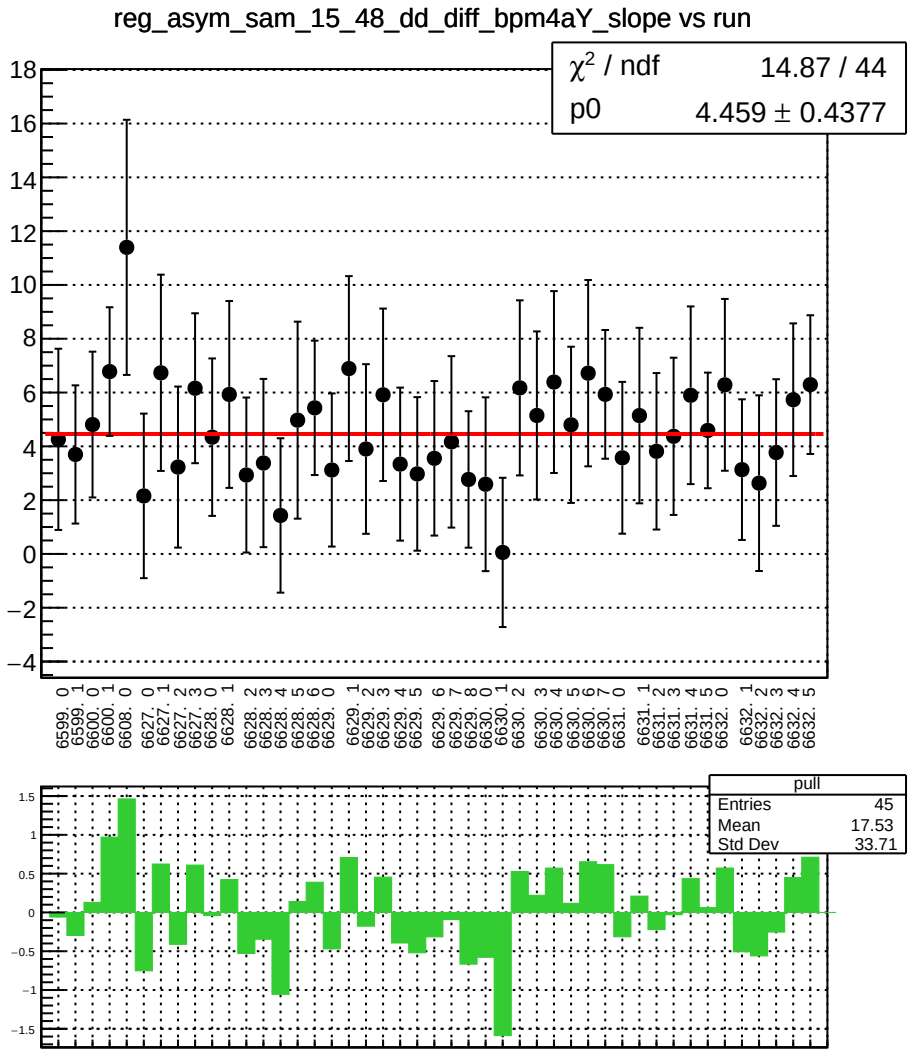

pull1D
Entries 45
Mean −0.0151
Std Dev 0.5131

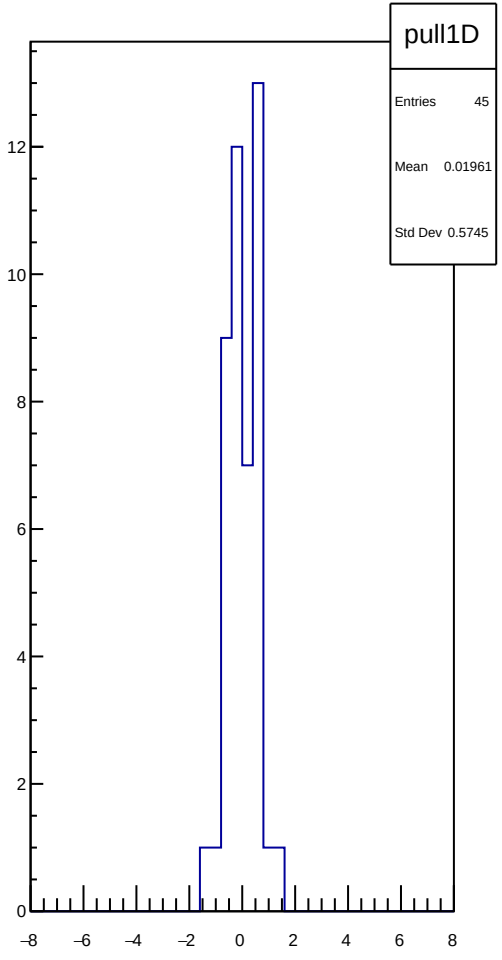

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.042 / 44
p0 −20.13 ± 0.7118
−10
−15
−20
−25
−30
−35
−40
−45
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −72.11
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.02032
Std Dev 0.4222
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

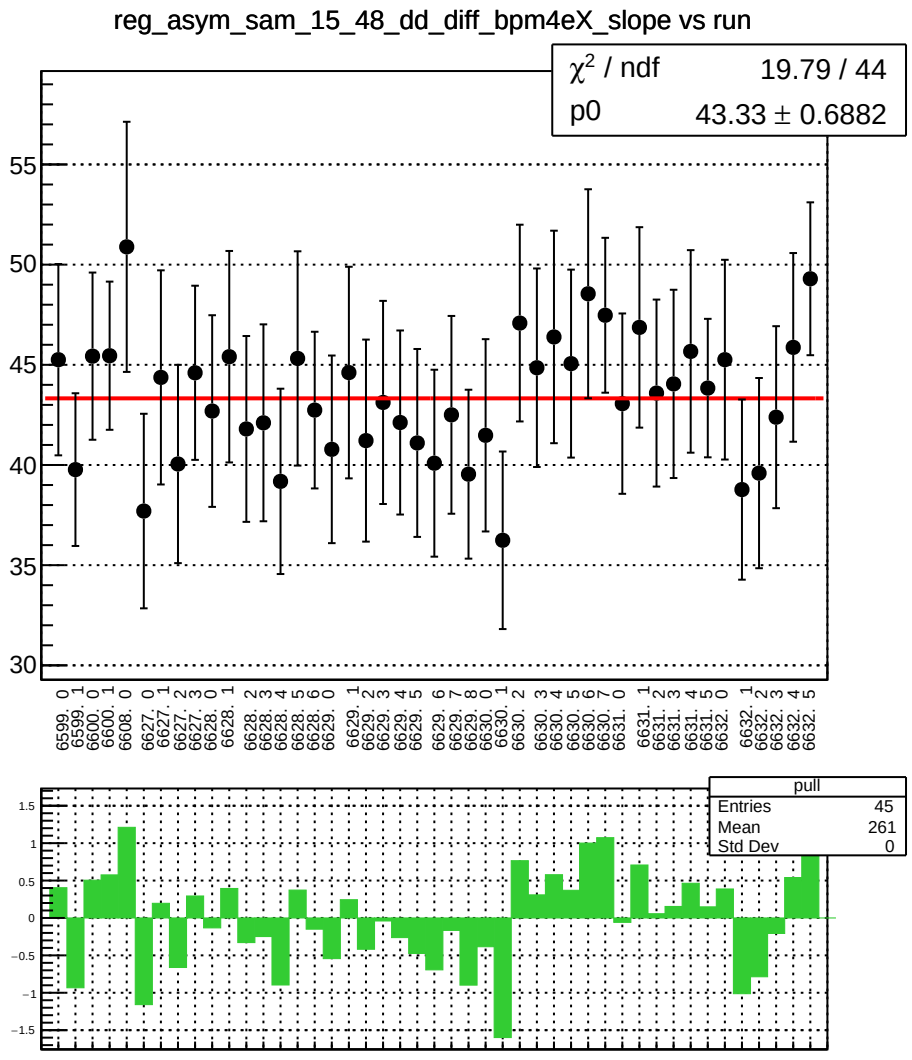

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 1.366 / 44
p0 0.517 ± 0.03841
pull
Entries 45
Mean −209.3
Std Dev 0
pull1D
Entries 45
Mean −0.0006256
Std Dev 0.1742

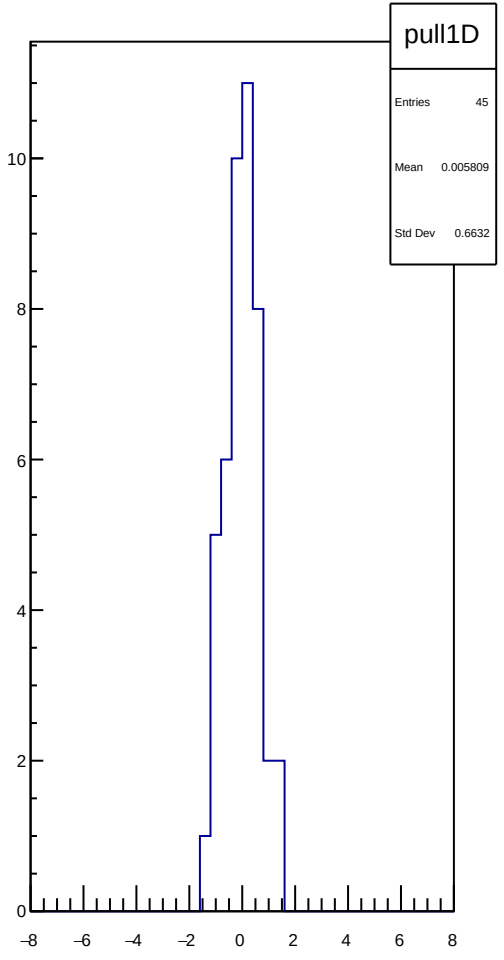

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 17.11 / 44
p0 10.42 ± 0.6674
pull
Entries 45
Mean −526.3
Std Dev 0

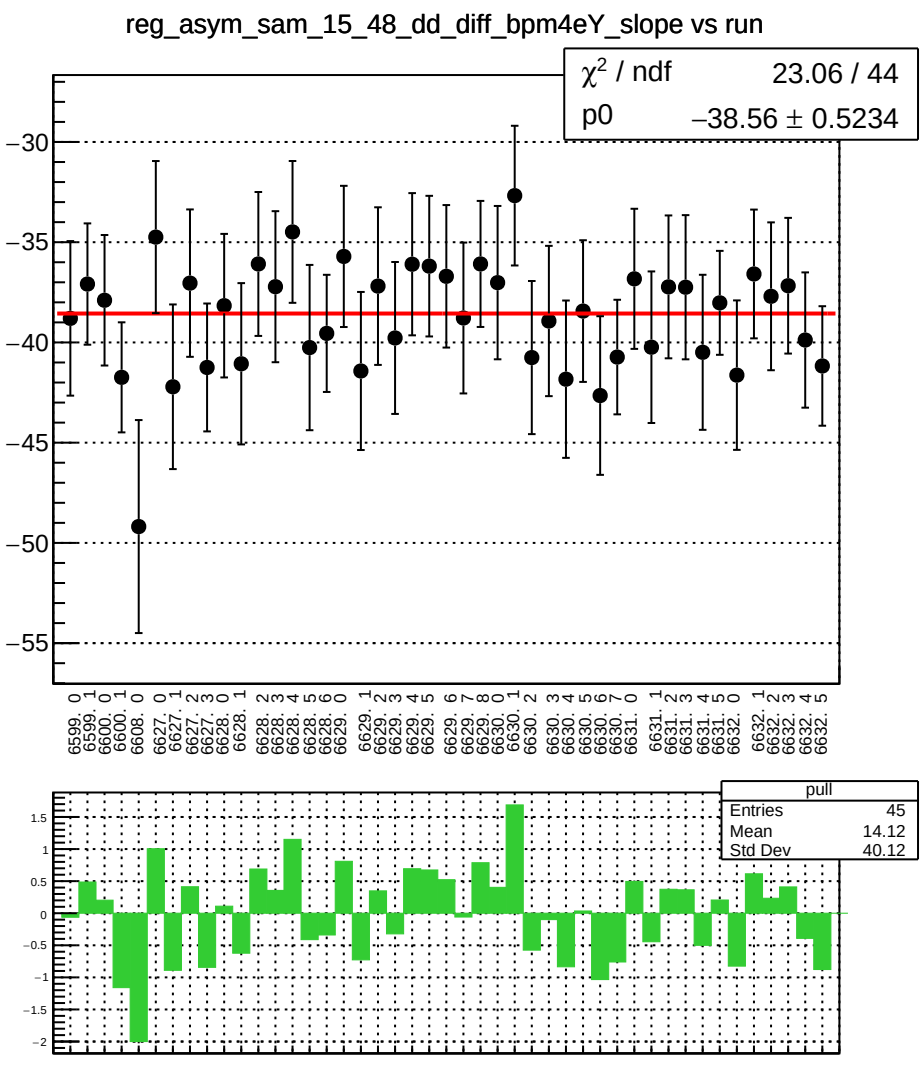

pull1D
Entries 45
Mean 0.002261
Std Dev 0.6166

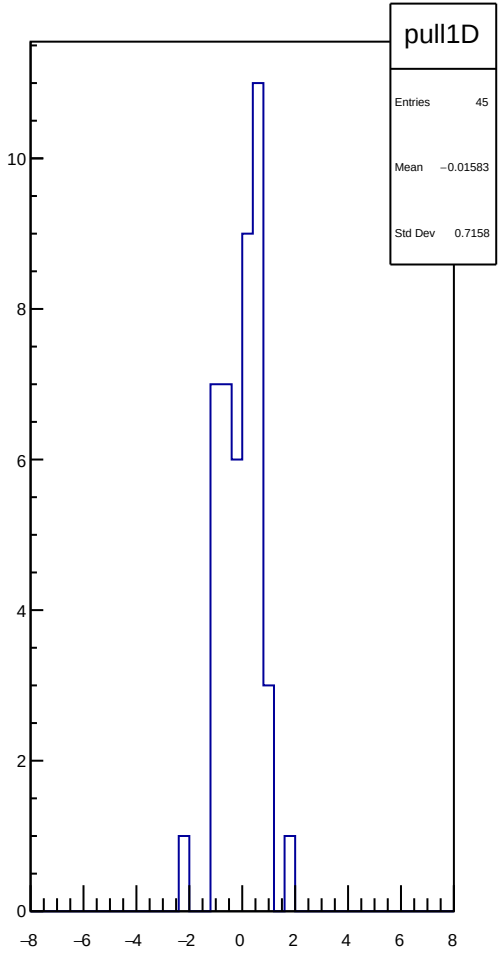

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.87 / 44
p0 4.459 ± 0.4377
pull
Entries 45
Mean 17.53
Std Dev 33.71

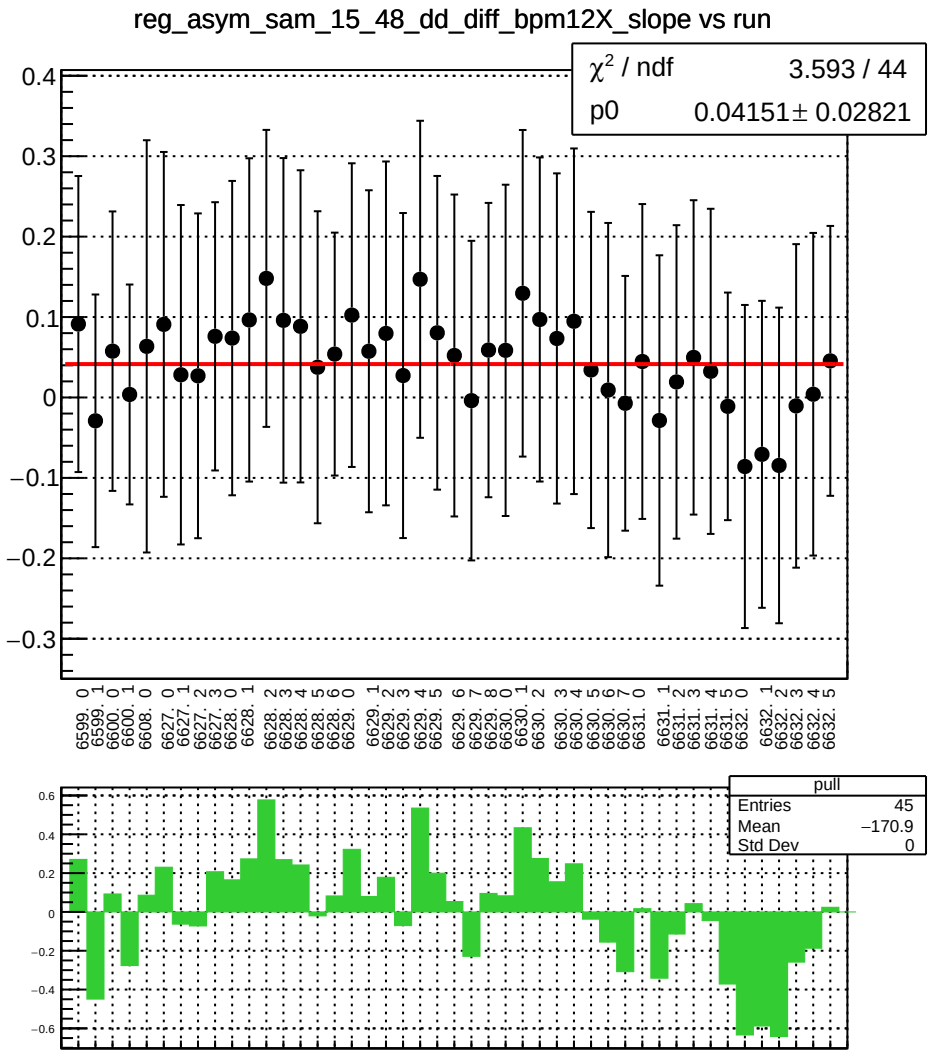

pull1D
Entries 45
Mean 0.01961
Std Dev 0.5745

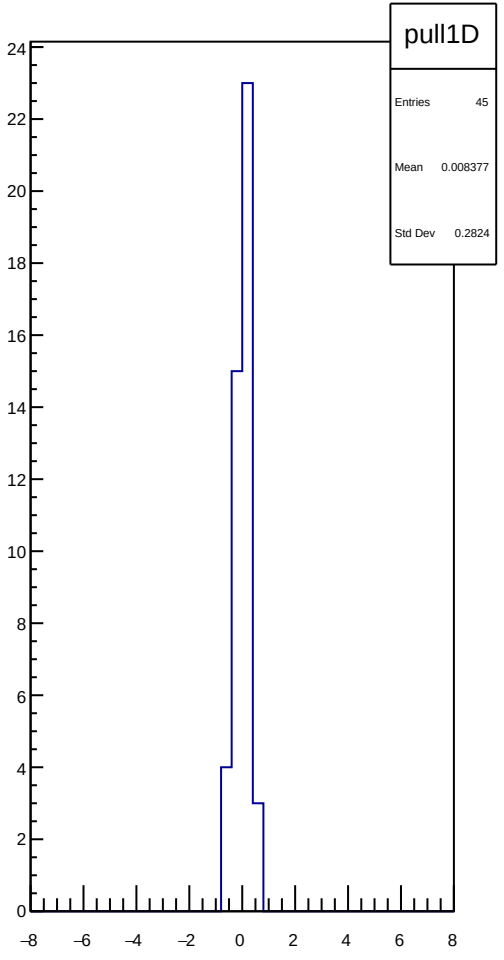

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.79 / 44
p0 43.33 ± 0.6882
pull
Entries 45
Mean 261
Std Dev 0

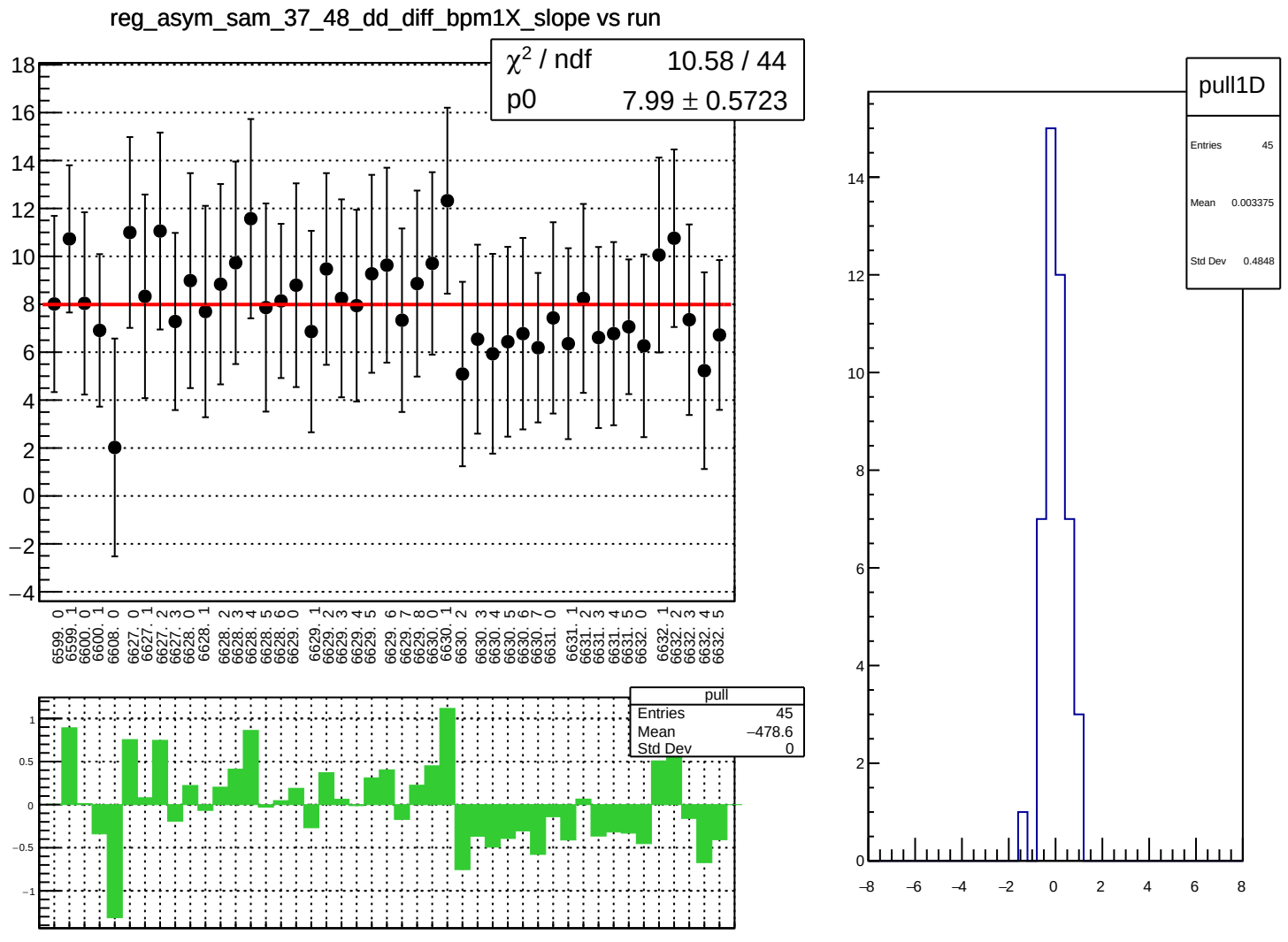

pull1D
Entries 45
Mean 0.005809
Std Dev 0.6632

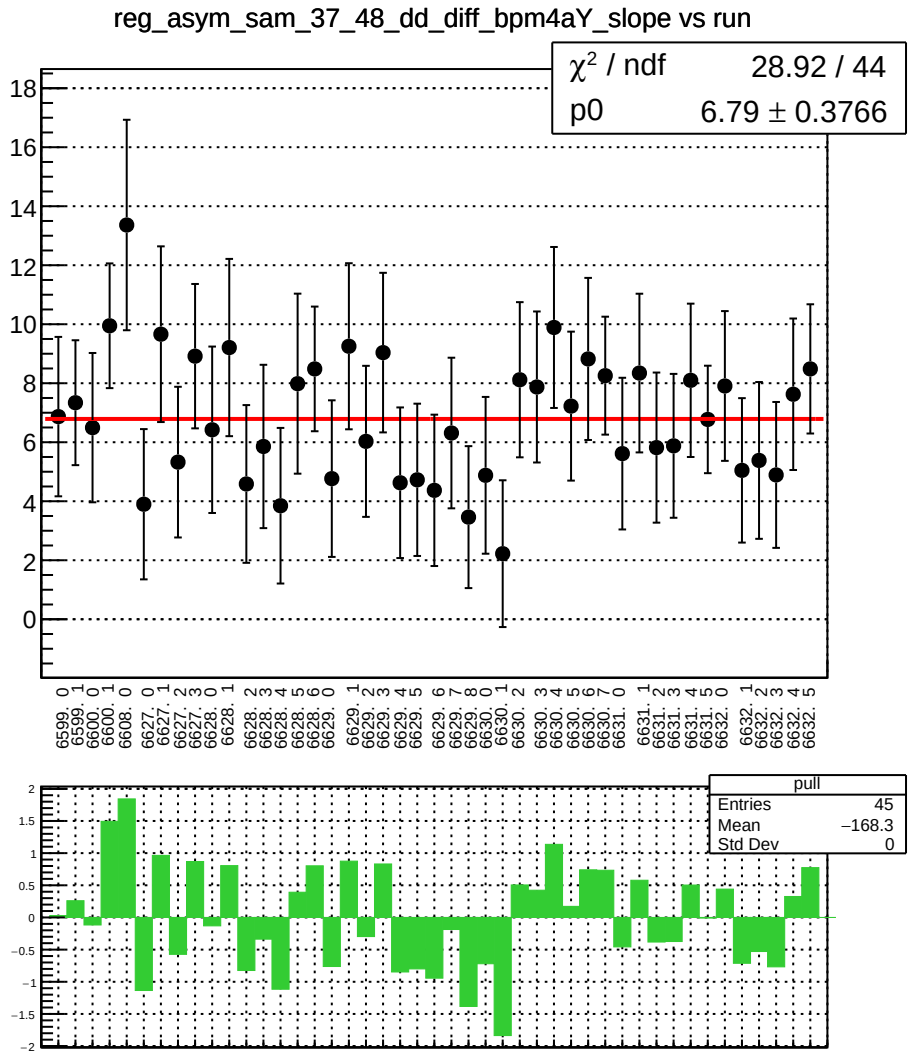

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.06 / 44
p0 −38.56 ± 0.5234
pull
Entries 45
Mean 14.12
Std Dev 40.12

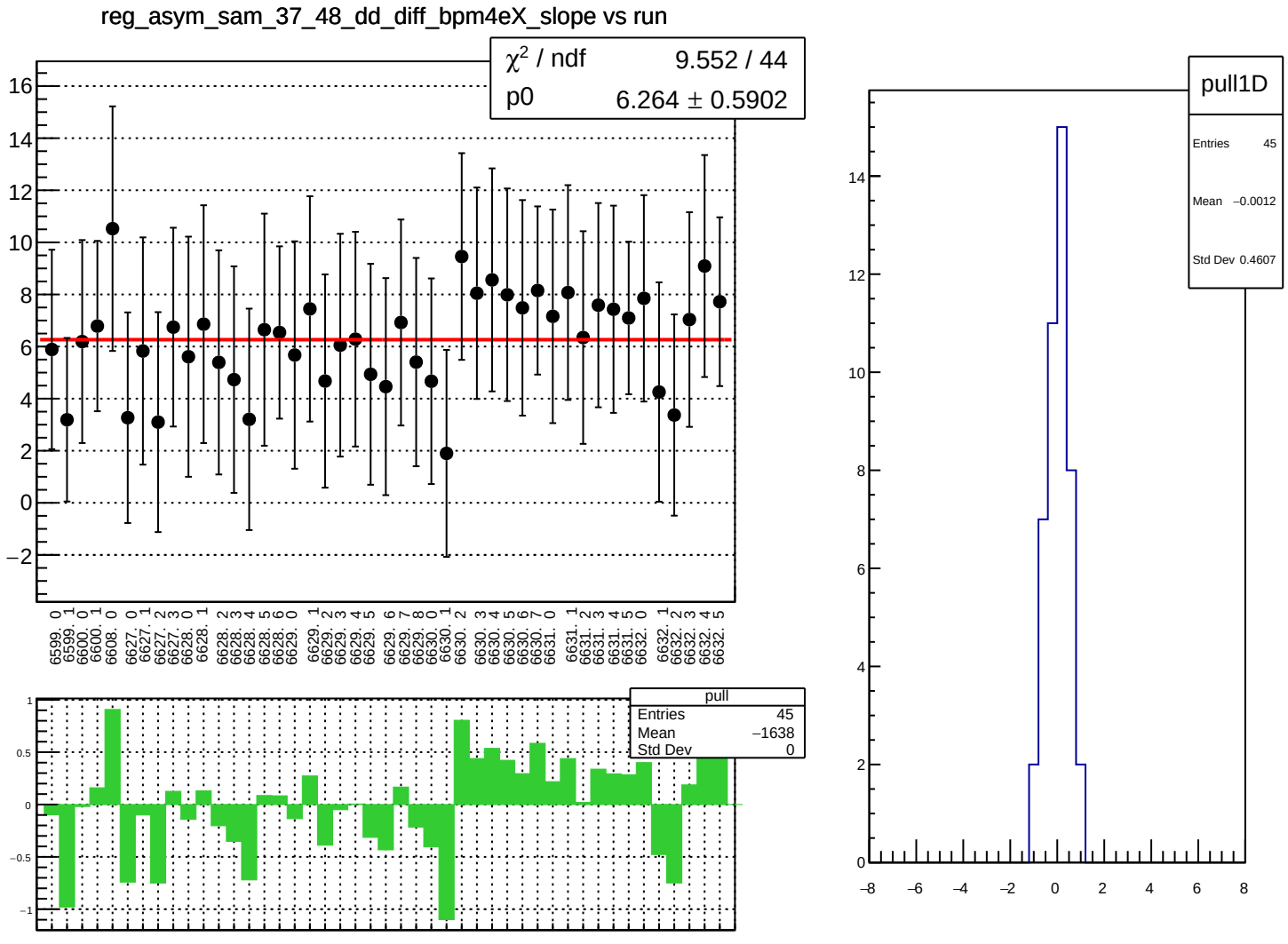

pull1D
Entries 45
Mean −0.01583
Std Dev 0.7158

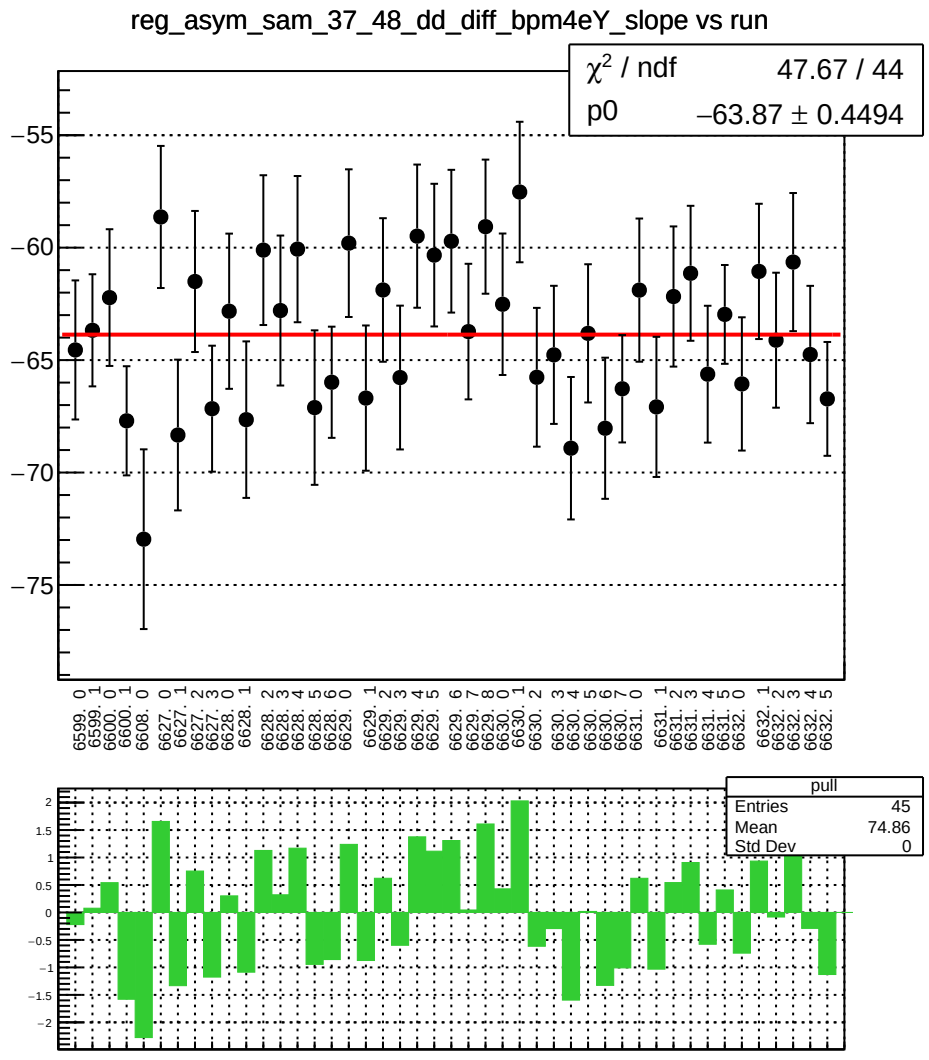

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 3.593 / 44
p0 0.04151± 0.02821
pull
Entries 45
Mean −170.9
Std Dev 0

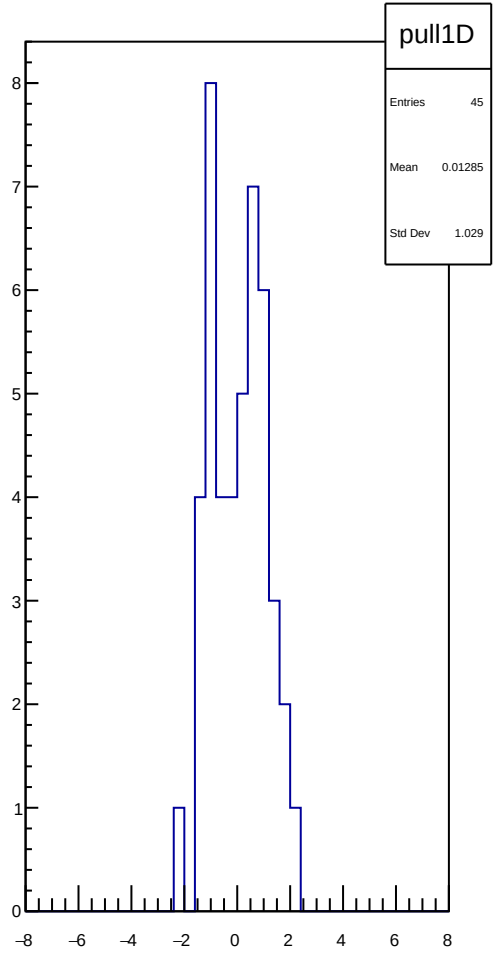

pull1D
Entries 45
Mean 0.008377
Std Dev 0.2824

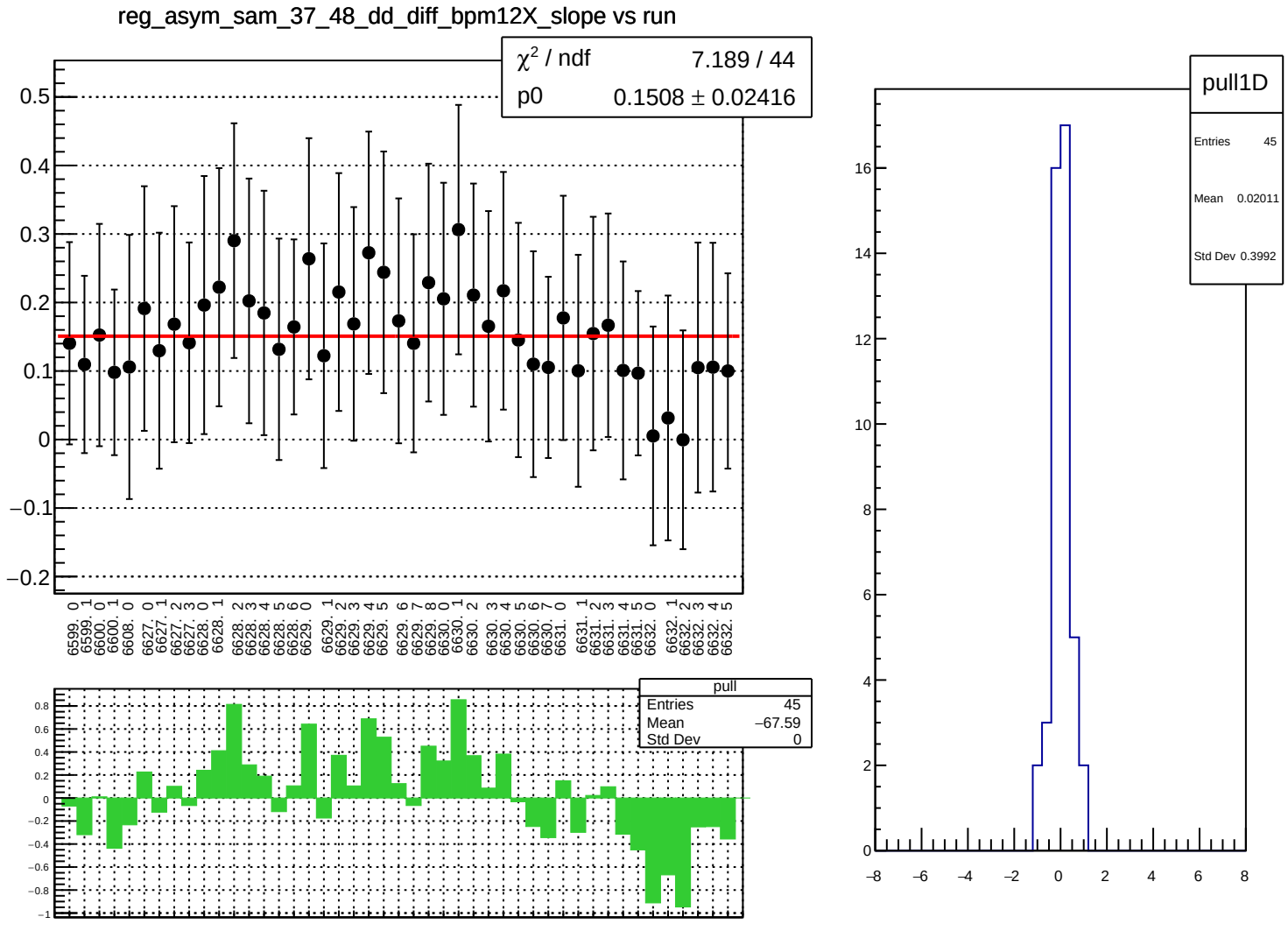

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 10.58 / 44
p0 7.99 ± 0.5723
pull
Entries 45
Mean −478.6
Std Dev 0
pull1D
Entries 45
Mean 0.003375
Std Dev 0.4848

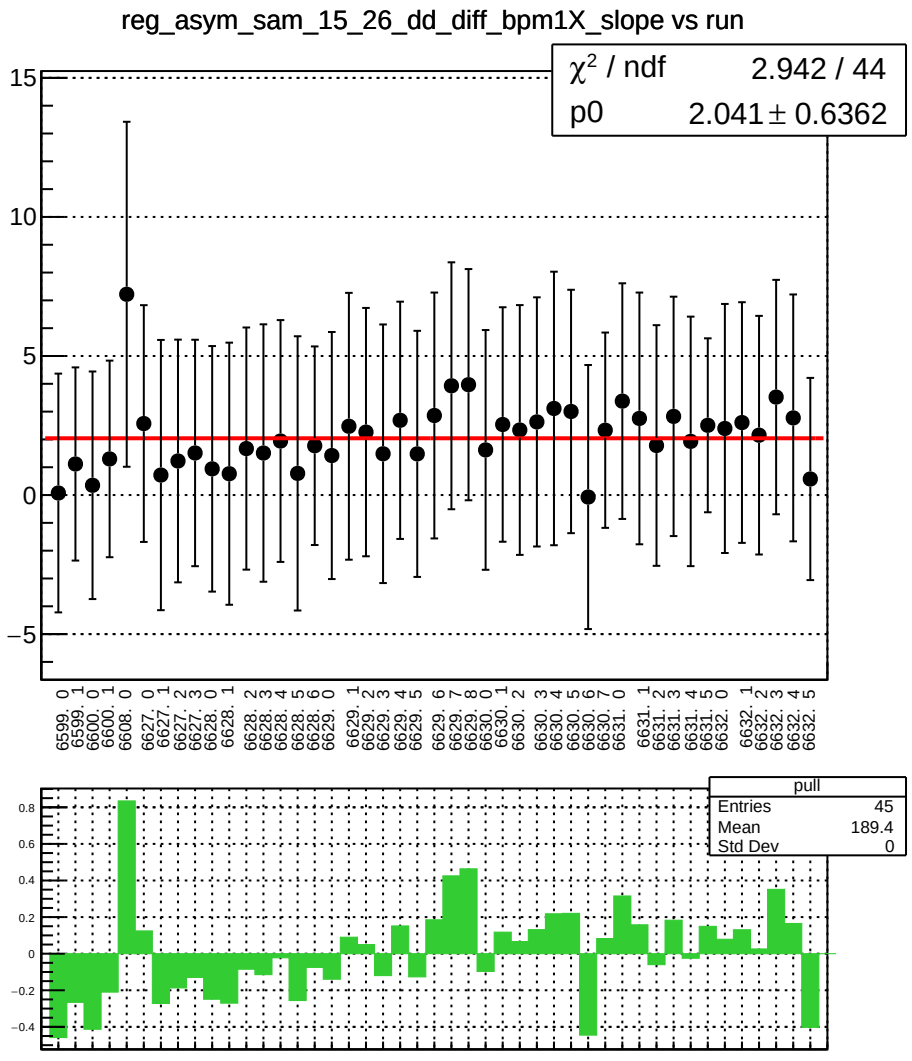

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 28.92 / 44
p0 6.79 ± 0.3766
pull
Entries 45
Mean −168.3
Std Dev 0
pull1D
Entries 45
Mean 0.00579
Std Dev 0.8017

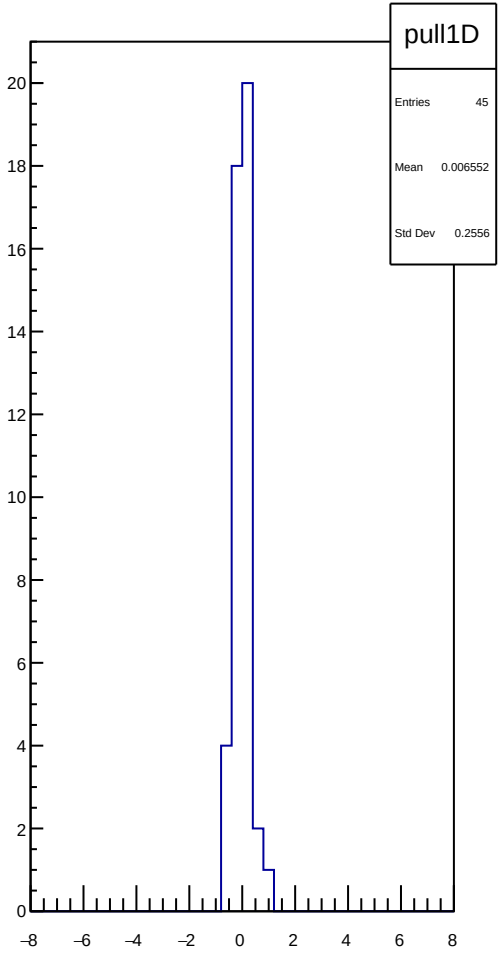

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.552 / 44
p0 6.264 ± 0.5902
pull
Entries 45
Mean −1638
Std Dev 0
pull1D
Entries 45
Mean −0.0012
Std Dev 0.4607

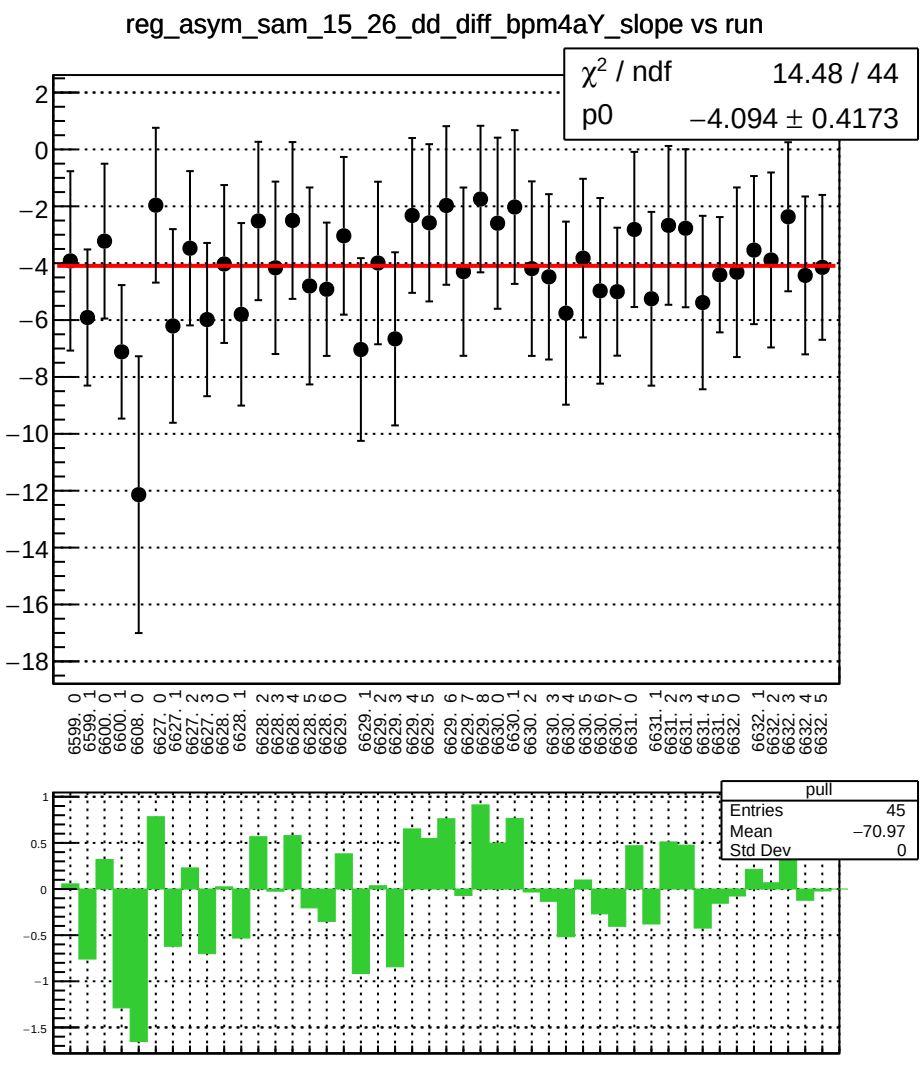

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 47.67 / 44
p0 −63.87 ± 0.4494
pull
Entries 45
Mean 74.86
Std Dev 0

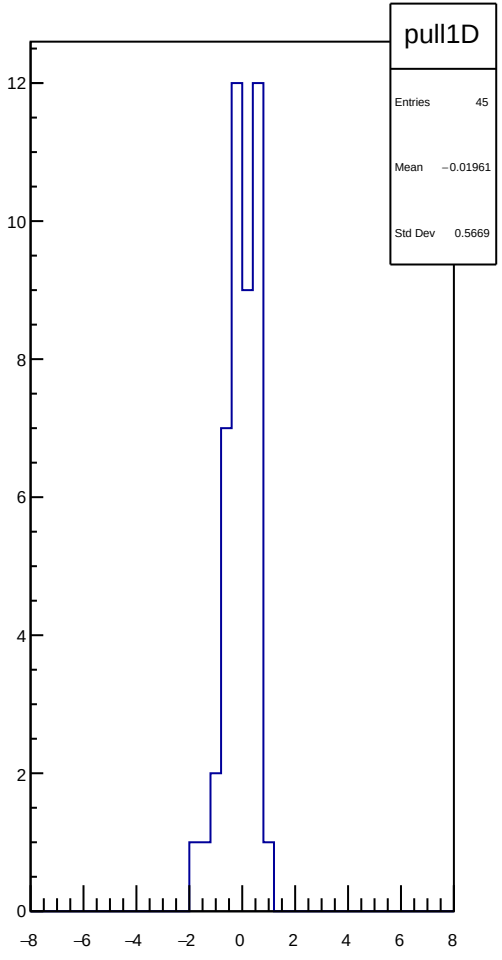

pull1D
Entries 45
Mean 0.01285
Std Dev 1.029

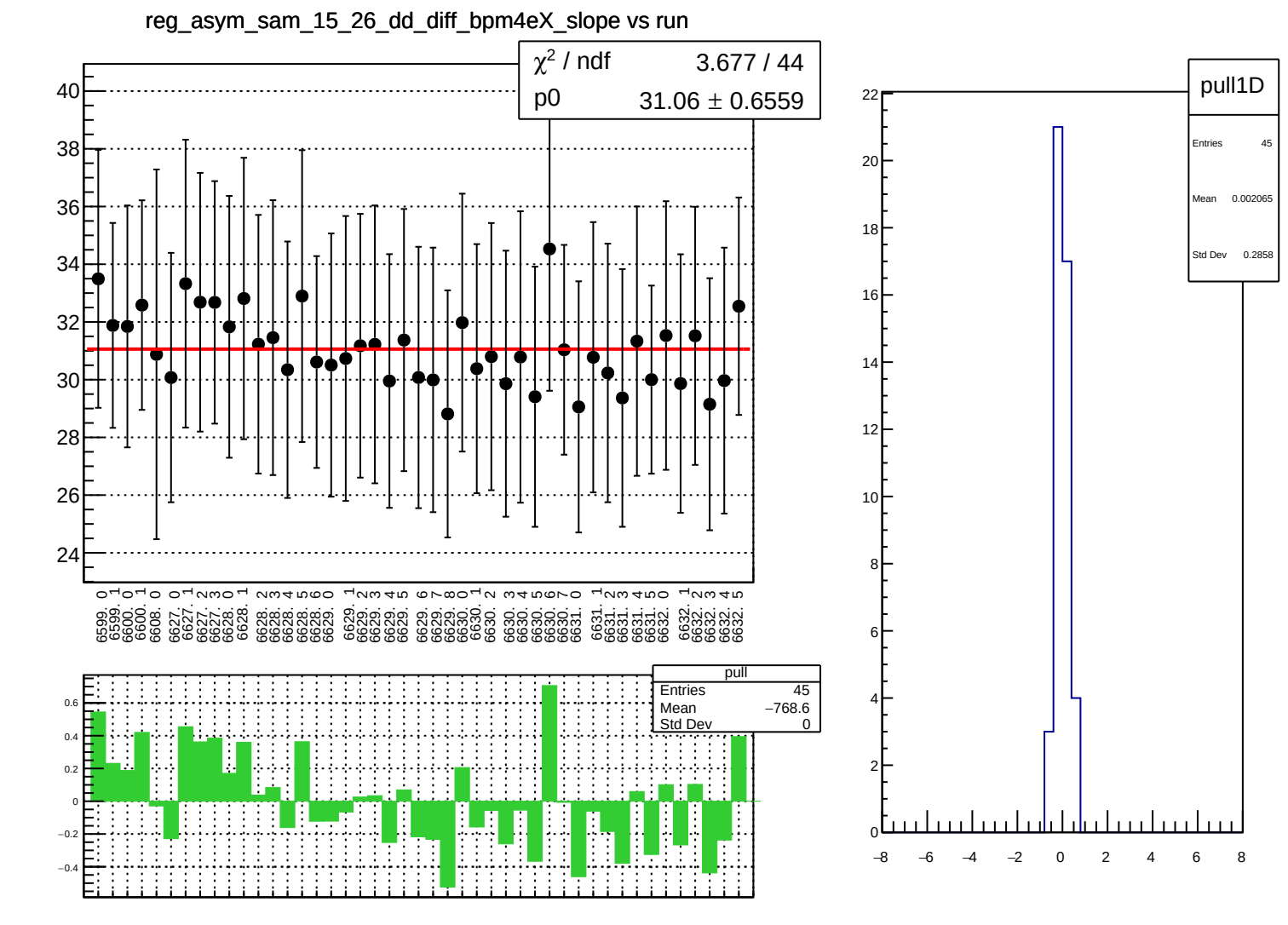

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 7.189 / 44
p0 0.1508 ± 0.02416
pull
Entries 45
Mean −67.59
Std Dev 0
pull1D
Entries 45
Mean 0.02011
Std Dev 0.3992

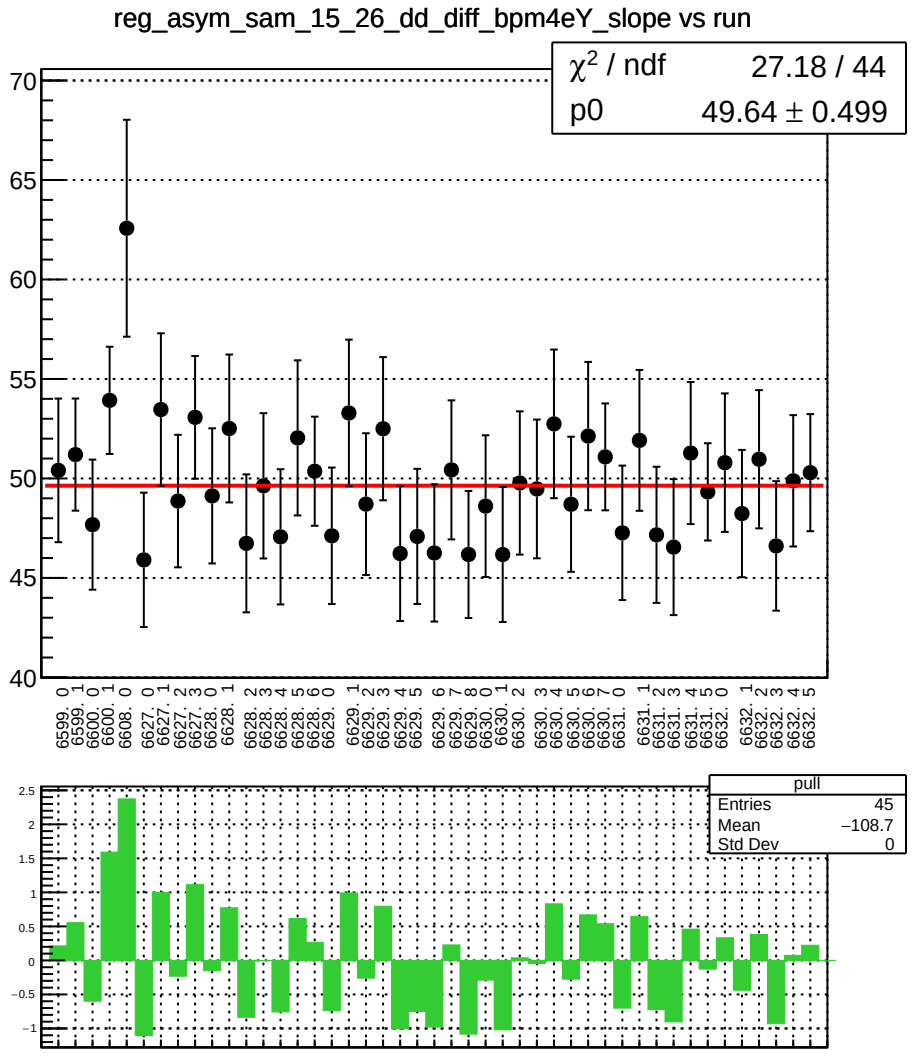

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 2.942 / 44
p0 2.041 ± 0.6362
pull
Entries 45
Mean 189.4
Std Dev 0

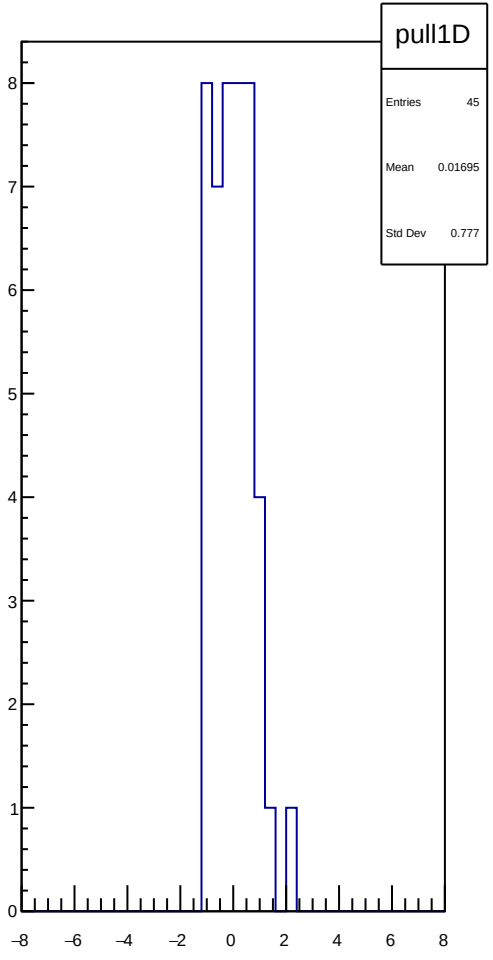

pull1D
Entries 45
Mean 0.006552
Std Dev 0.2556

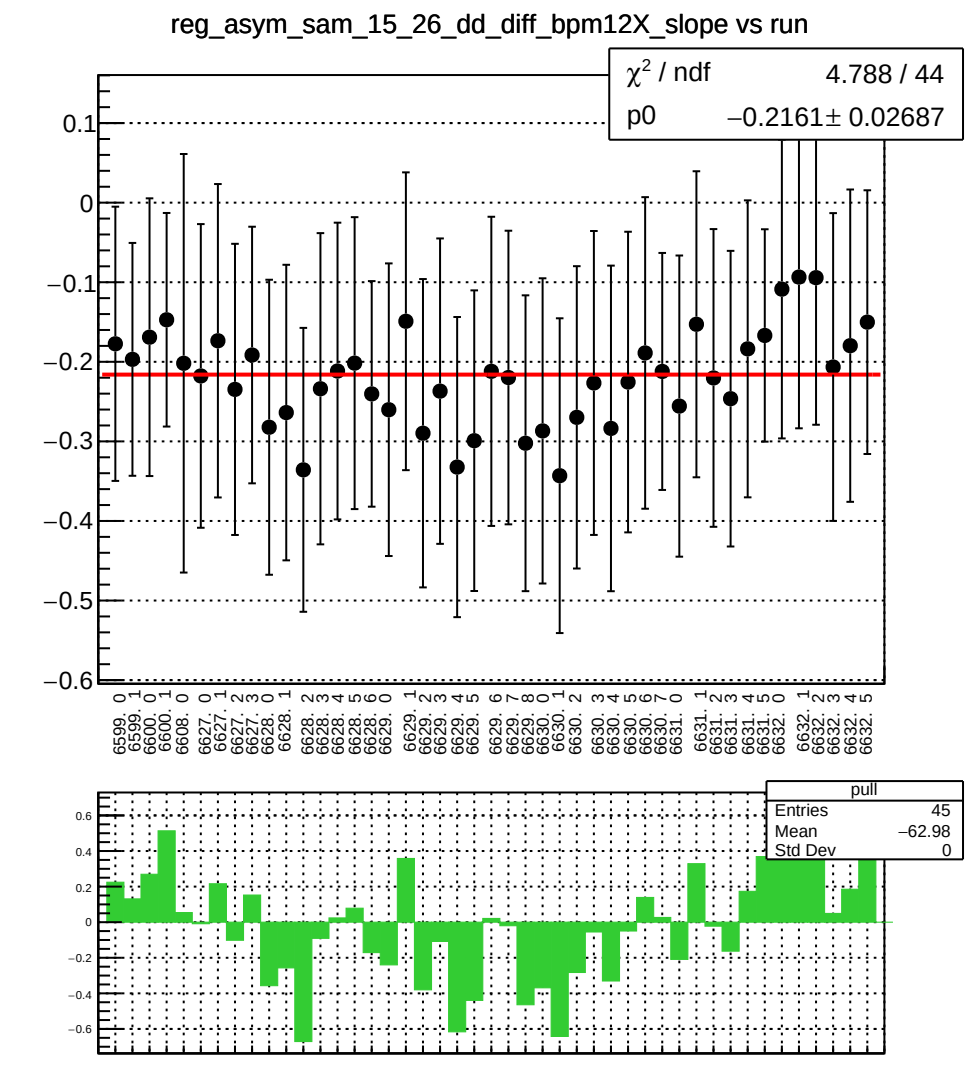

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.48 / 44
p0 −4.094 ± 0.4173
pull
Entries 45
Mean −70.97
Std Dev 0

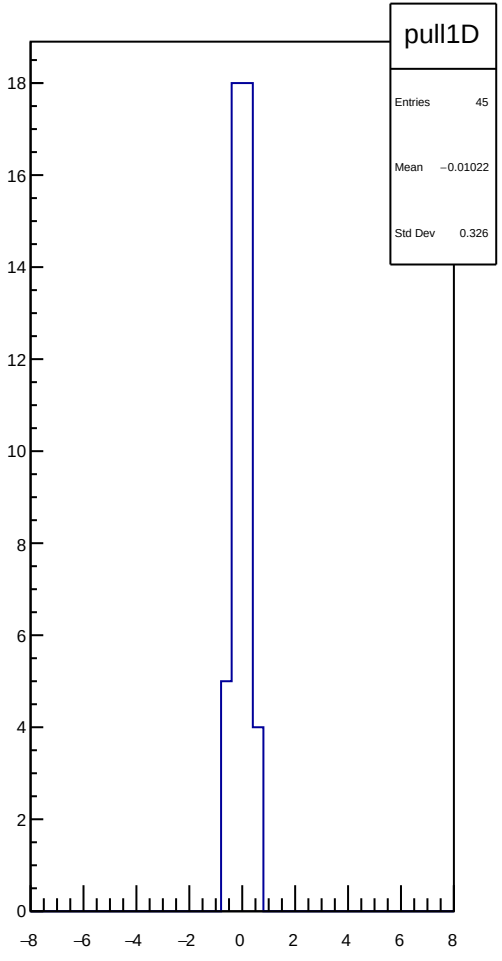

pull1D
Entries 45
Mean −0.01961
Std Dev 0.5669

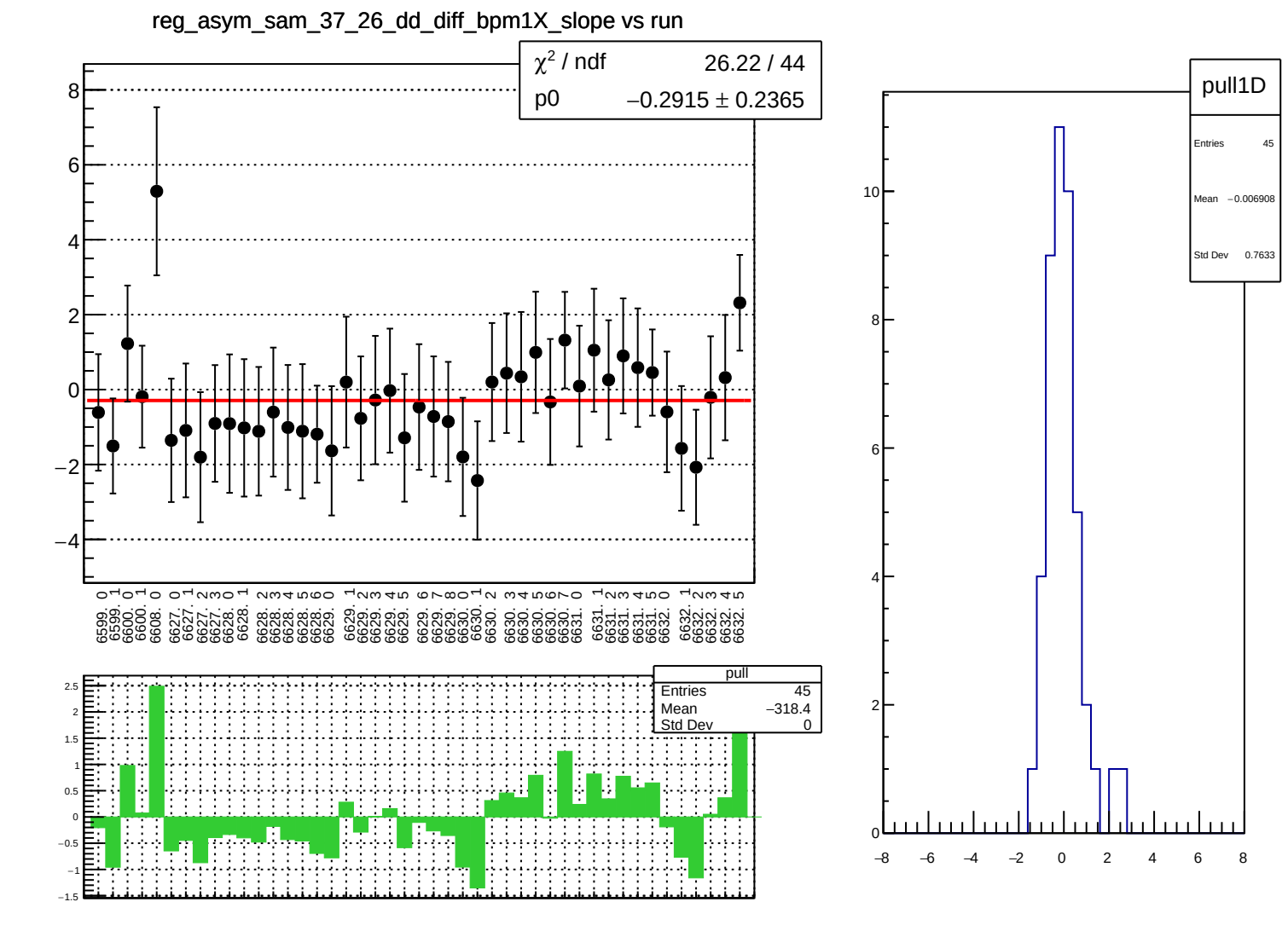

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.677 / 44
p0 31.06 ± 0.6559
pull
Entries 45
Mean −768.6
Std Dev 0
pull1D
Entries 45
Mean 0.002065
Std Dev 0.2858

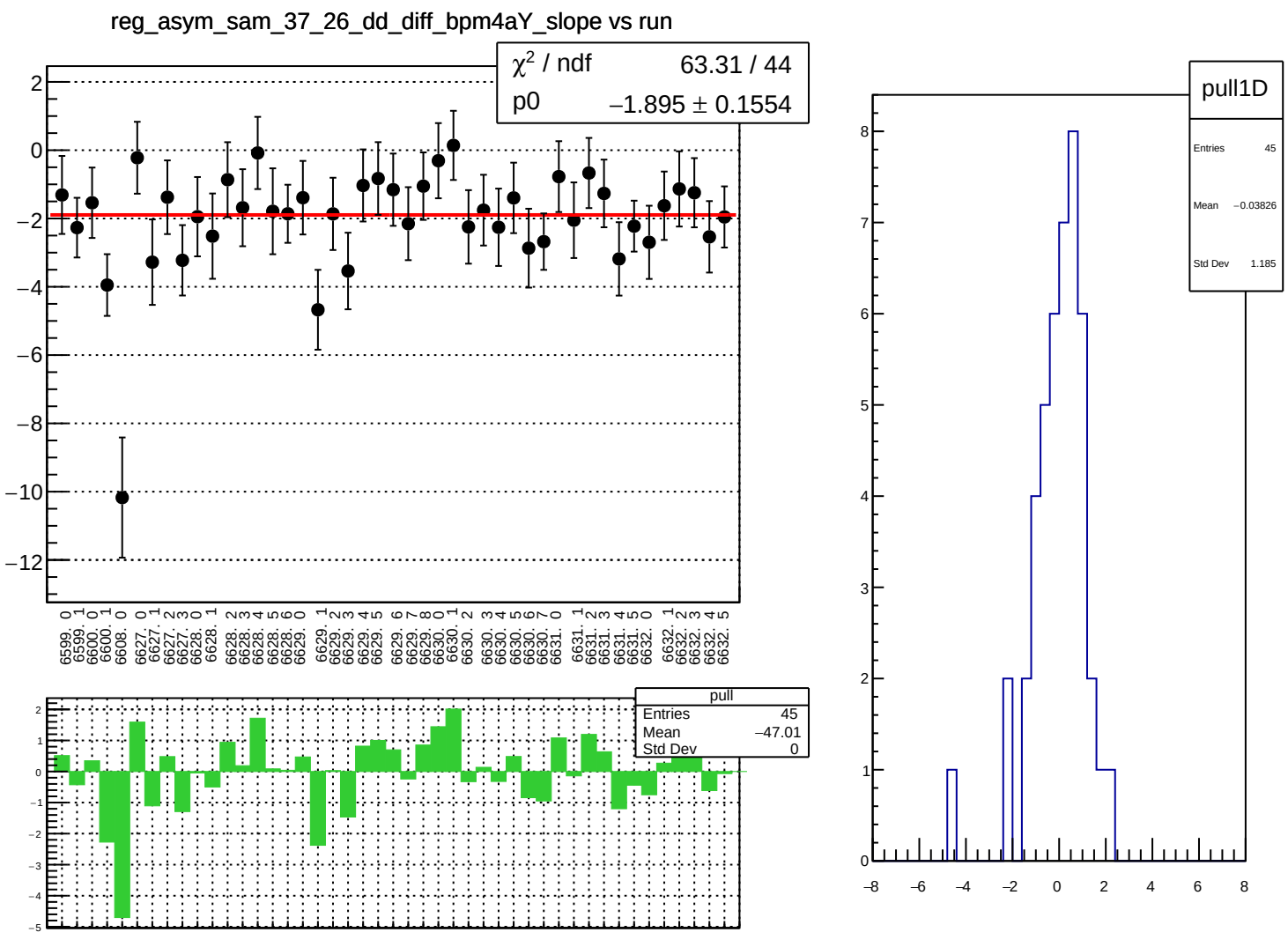

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 27.18 / 44
p0 49.64 ± 0.499
pull
Entries 45
Mean −108.7
Std Dev 0

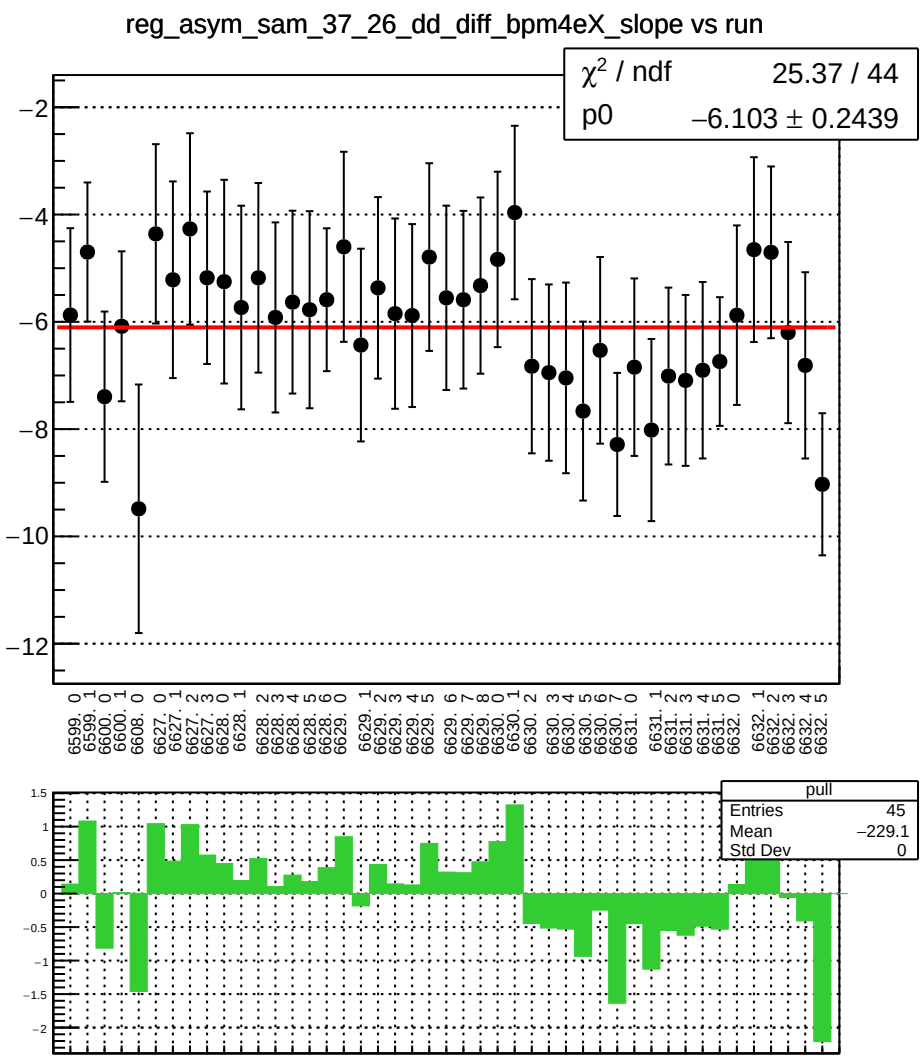

pull1D
Entries 45
Mean 0.01695
Std Dev 0.777

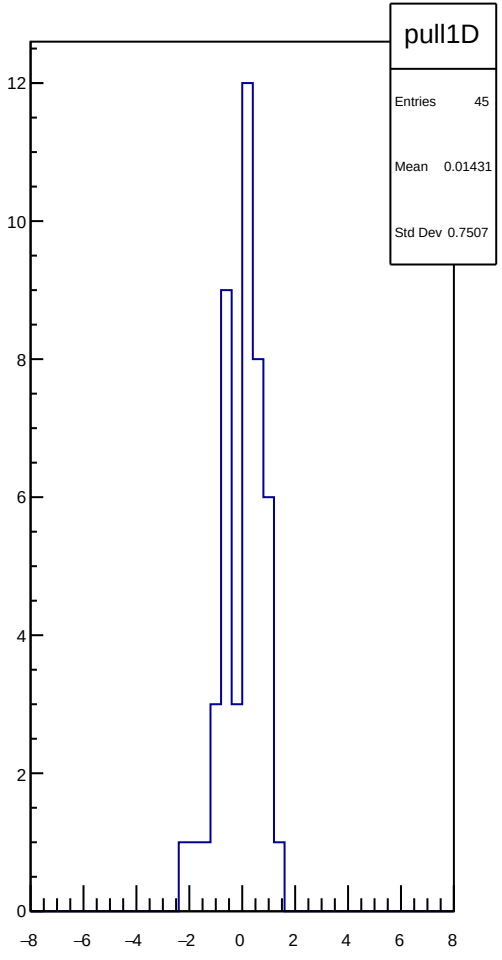

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 4.788 / 44
p0 −0.2161± 0.02687
pull
Entries 45
Mean −62.98
Std Dev 0

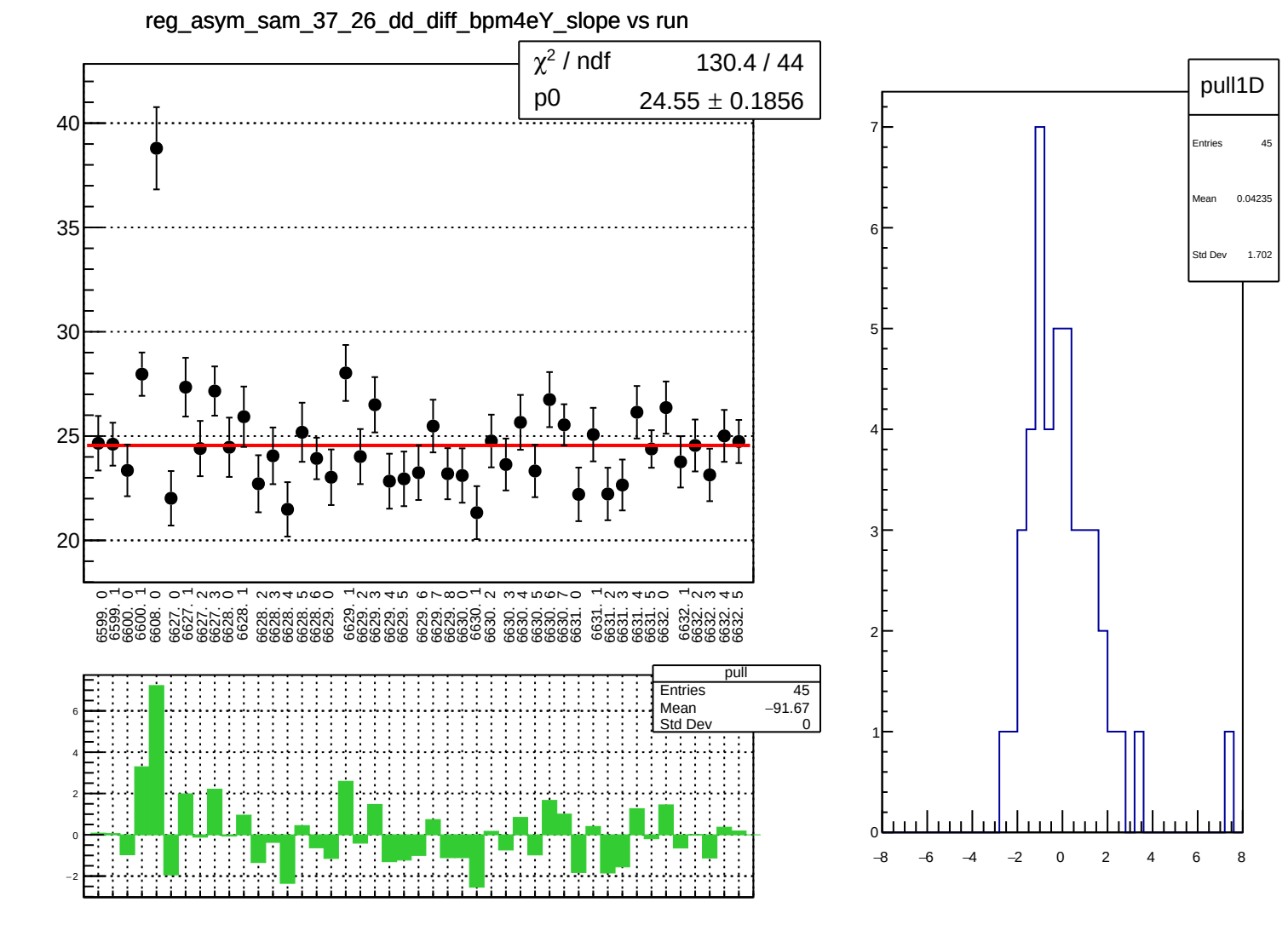

pull1D
Entries 45
Mean −0.01022
Std Dev 0.326

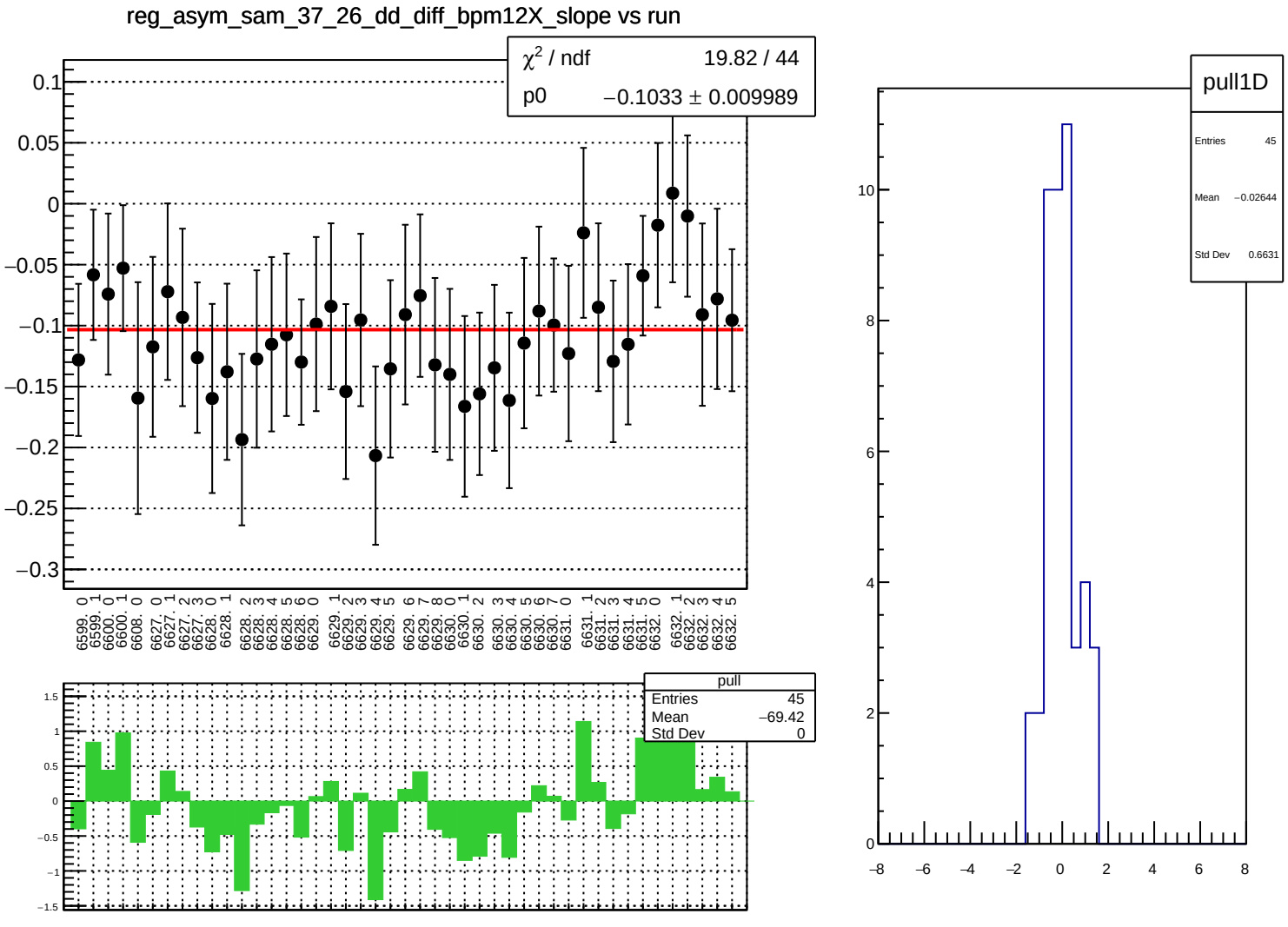

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 26.22 / 44
p0 −0.2915 ± 0.2365
pull
Entries 45
Mean −318.4
Std Dev 0
pull1D
Entries 45
Mean −0.006908
Std Dev 0.7633

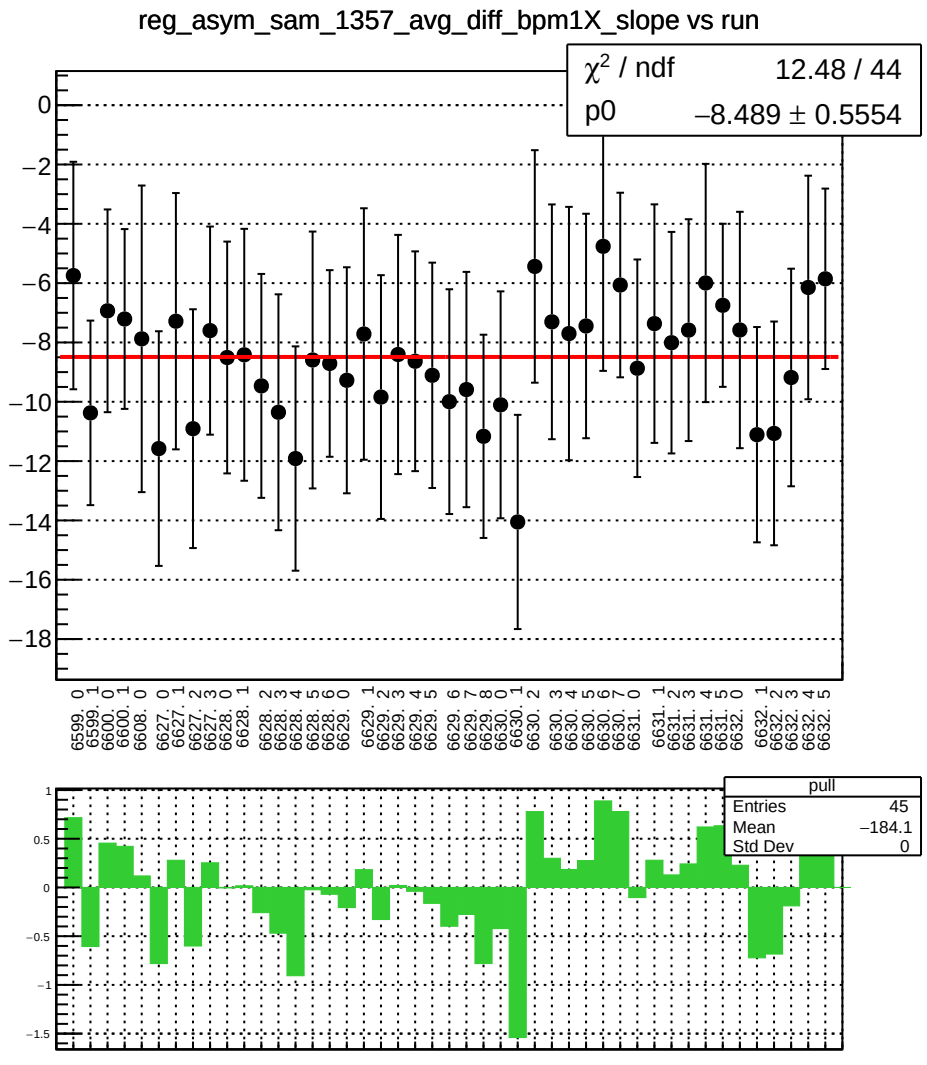

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 63.31 / 44
p0 −1.895 ± 0.1554
pull
Entries 45
Mean −47.01
Std Dev 0
pull1D
Entries 45
Mean −0.03826
Std Dev 1.185

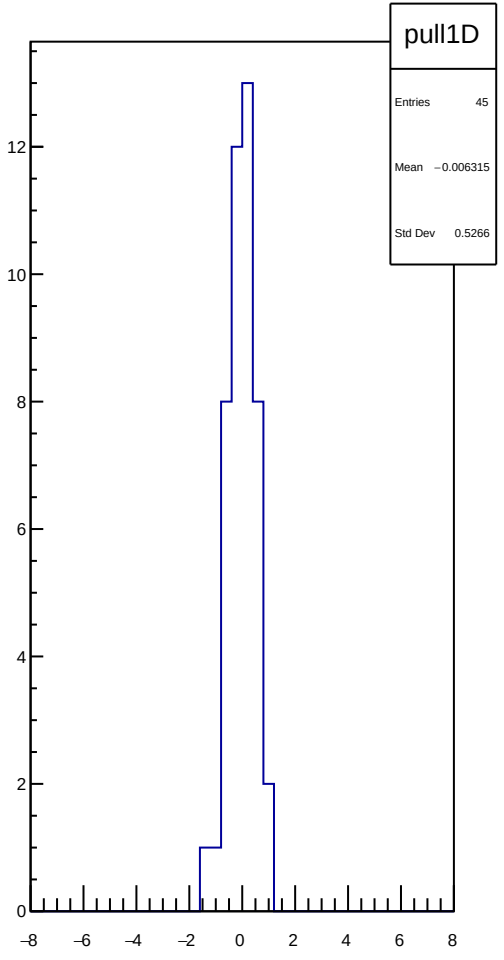

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.37 / 44
p0 −6.103 ± 0.2439
pull
Entries 45
Mean −229.1
Std Dev 0

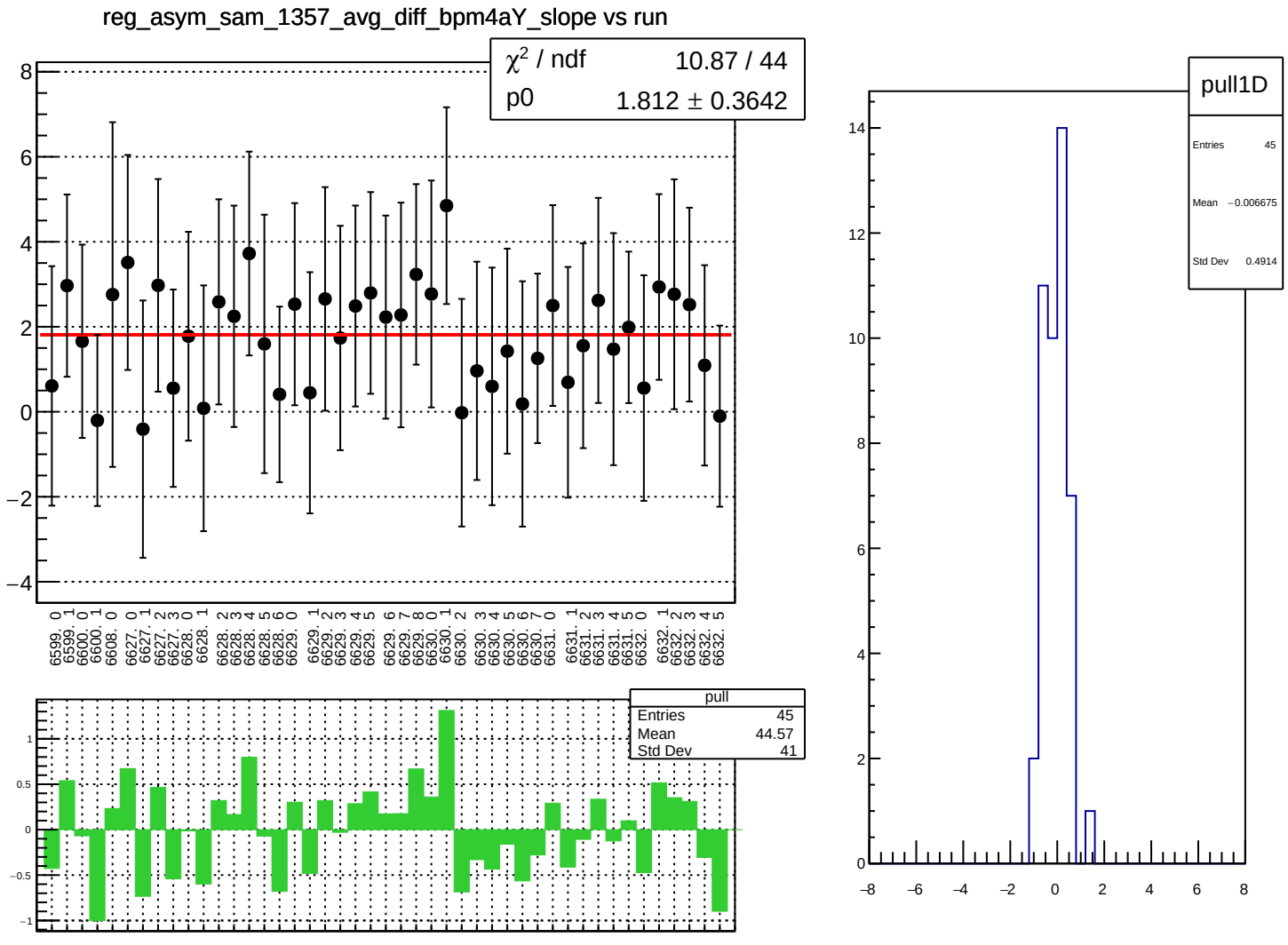

pull1D
Entries 45
Mean 0.01431
Std Dev 0.7507

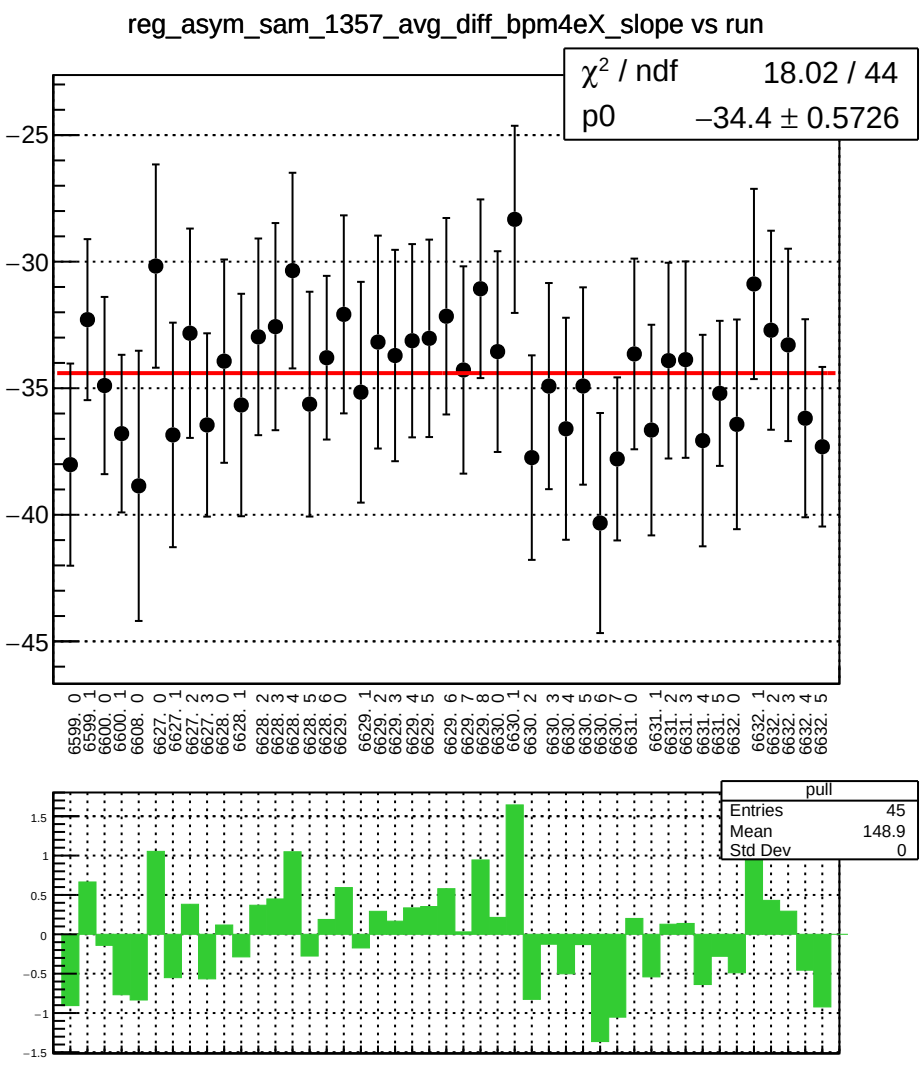

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 130.4 / 44
p0 24.55 ± 0.1856
40
35
30
25
20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −91.67
Std Dev 0
6
4
2
0
−2
pull1D
Entries 45
Mean 0.04235
Std Dev 1.702
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

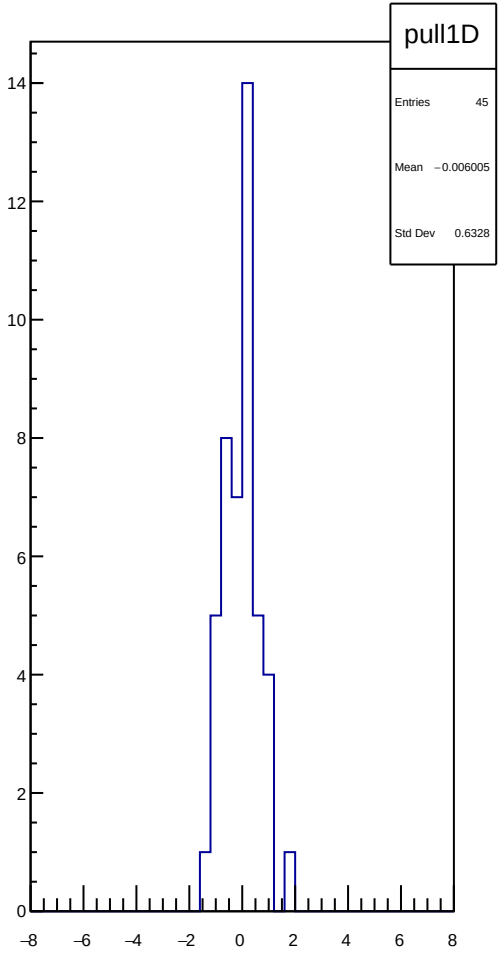

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 19.82 / 44
p0 −0.1033 ± 0.009989
pull
Entries 45
Mean −69.42
Std Dev 0
pull1D
Entries 45
Mean −0.02644
Std Dev 0.6631

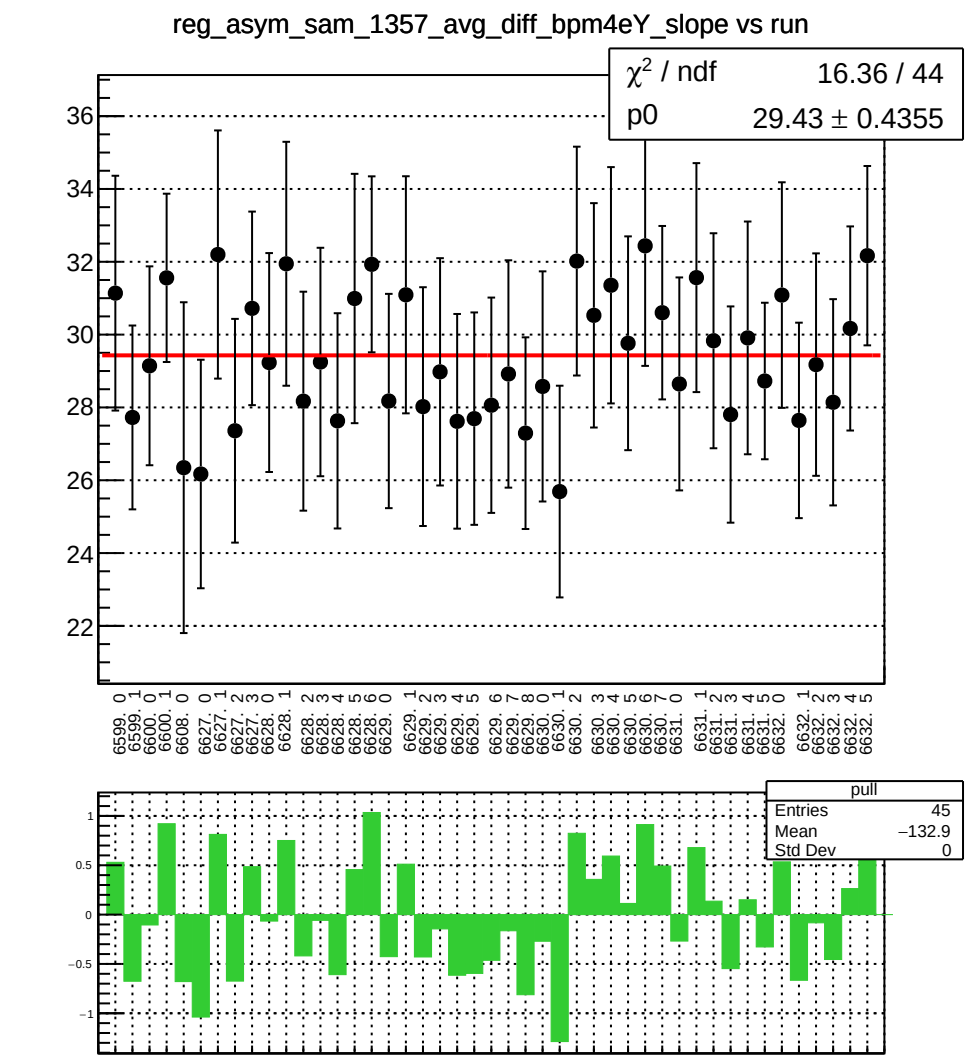

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 12.48 / 44
p0 −8.489 ± 0.5554
pull
Entries 45
Mean −184.1
Std Dev 0

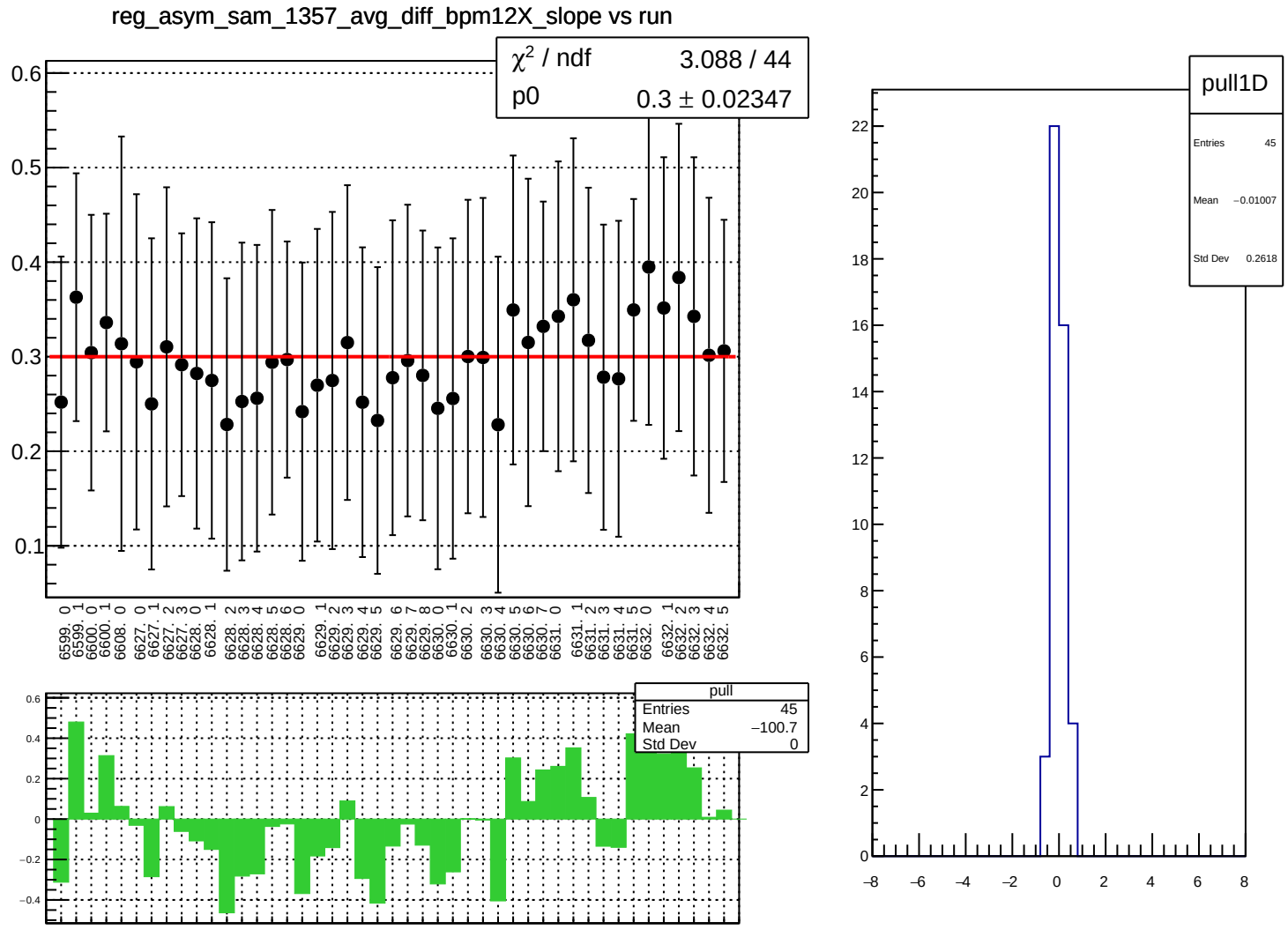

pull1D
Entries 45
Mean −0.006315
Std Dev 0.5266

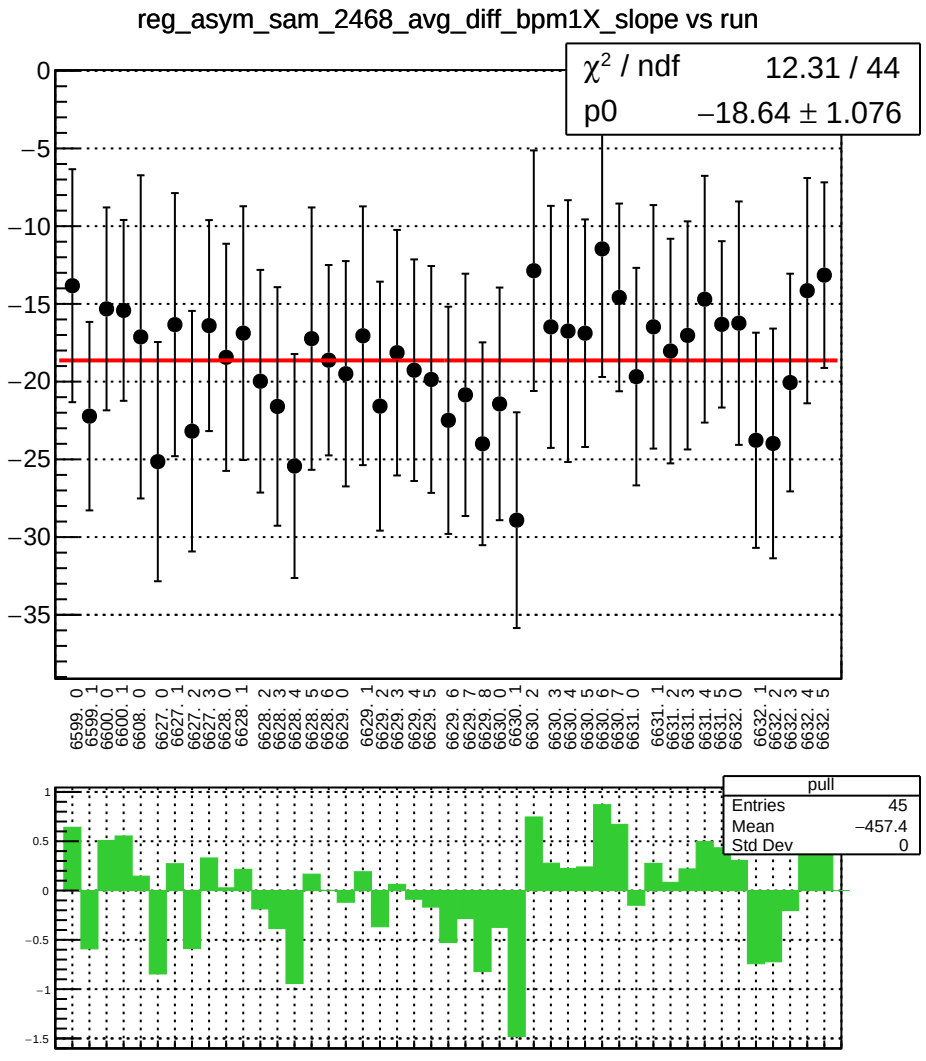

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.87 / 44
p0 1.812 ± 0.3642
pull
Entries 45
Mean 44.57
Std Dev 41
pull1D
Entries 45
Mean −0.006675
Std Dev 0.4914

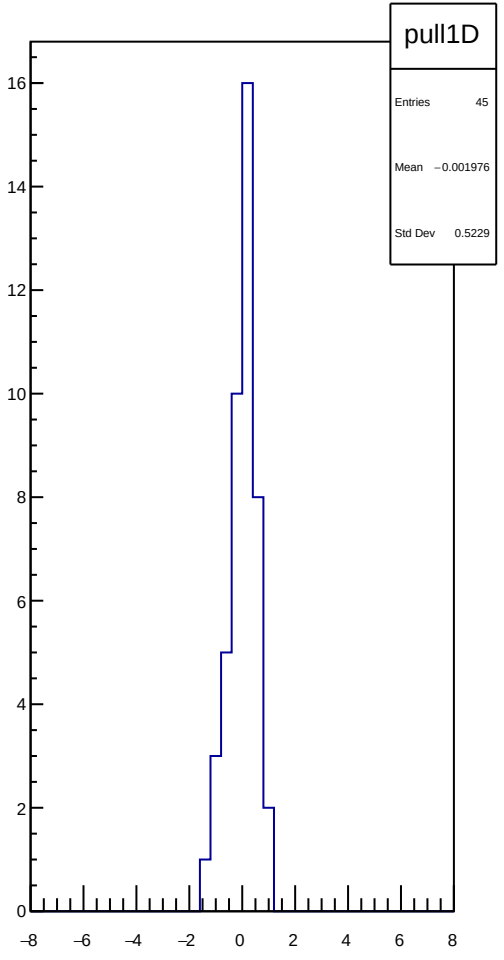

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.02 / 44
p0 −34.4 ± 0.5726
−25
−30
−35
−40
−45
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 148.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

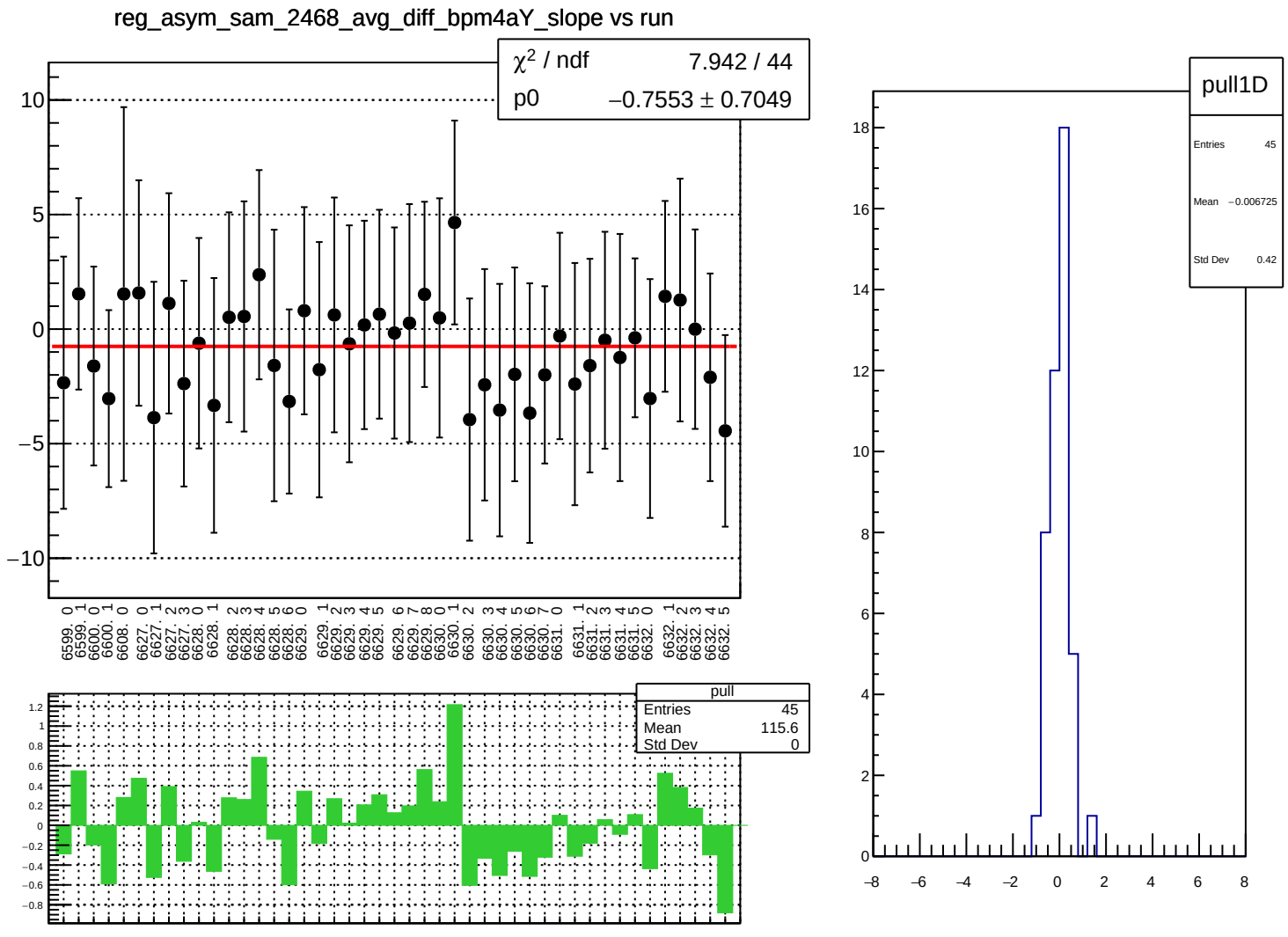

pull1D
Entries 45
Mean −0.006005
Std Dev 0.6328
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

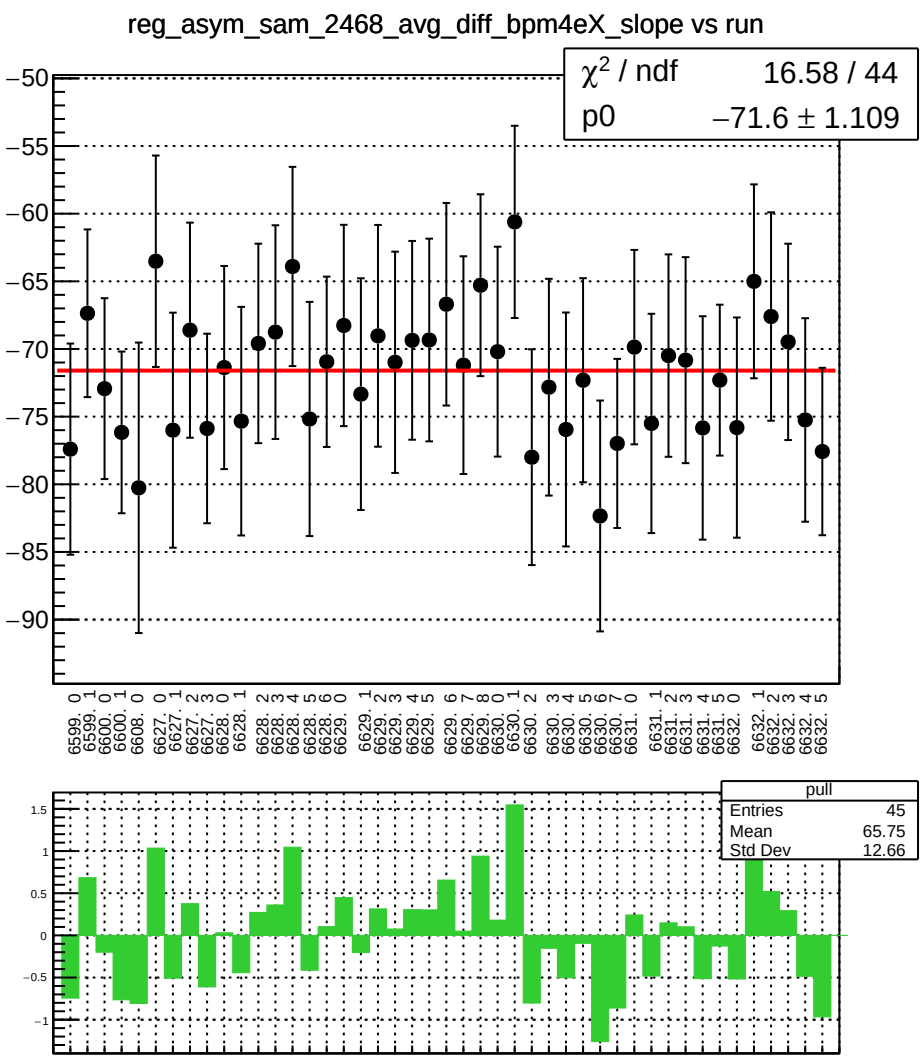

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.36 / 44
p0 29.43 ± 0.4355
36
34
32
30
28
26
24
22
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −132.9
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.004623
Std Dev 0.603
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

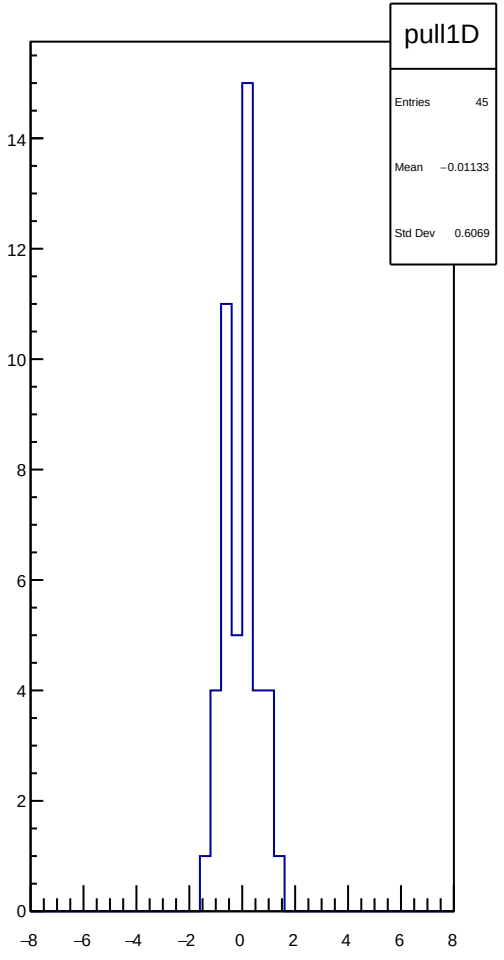

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 3.088 / 44
p0 0.3 ± 0.02347
pull
Entries 45
Mean −100.7
Std Dev 0
pull1D
Entries 45
Mean −0.01007
Std Dev 0.2618

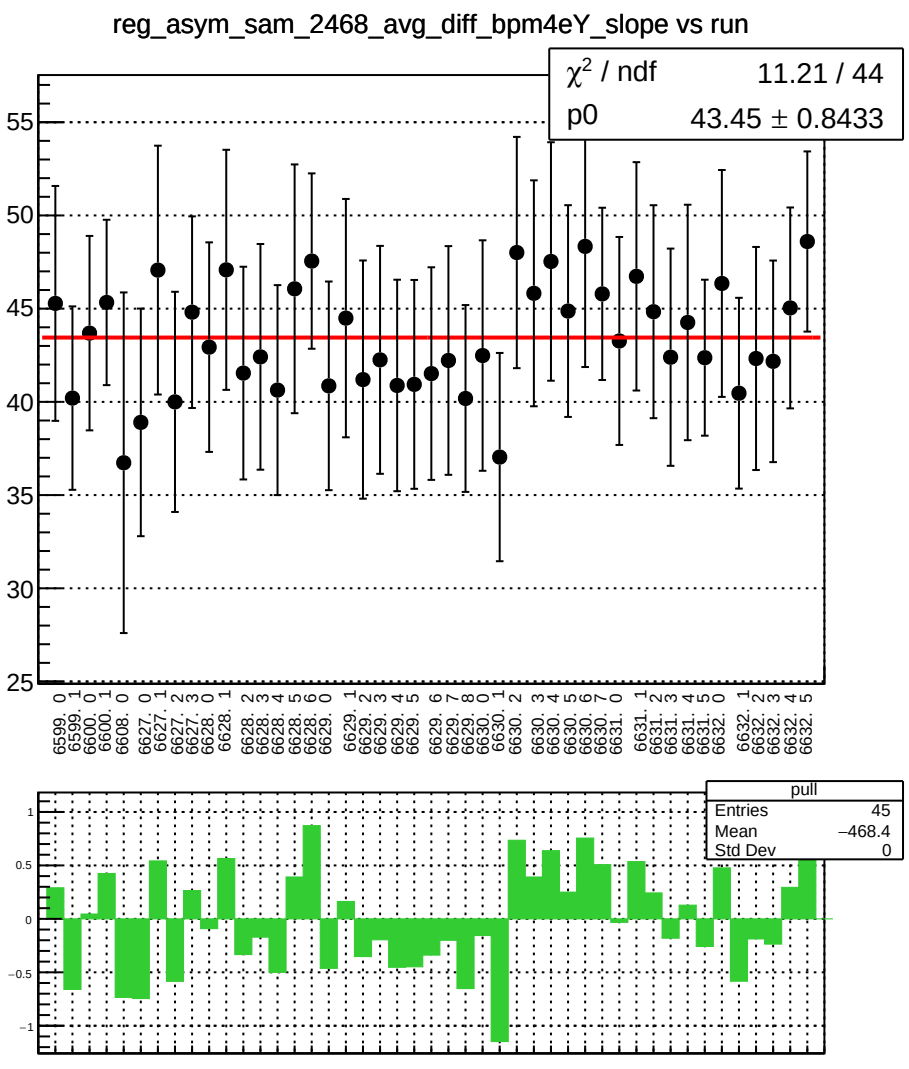

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 12.31 / 44
p0 −18.64 ± 1.076
pull
Entries 45
Mean −457.4
Std Dev 0

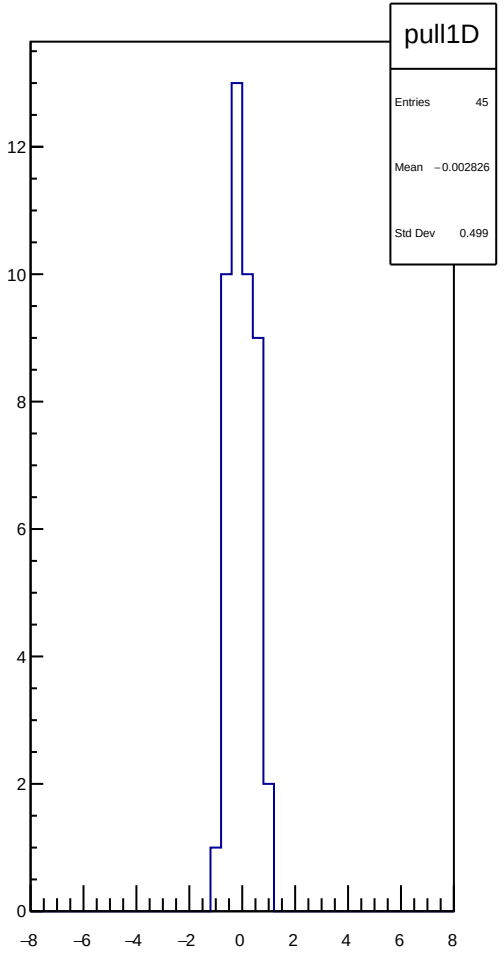

pull1D
Entries 45
Mean −0.001976
Std Dev 0.5229

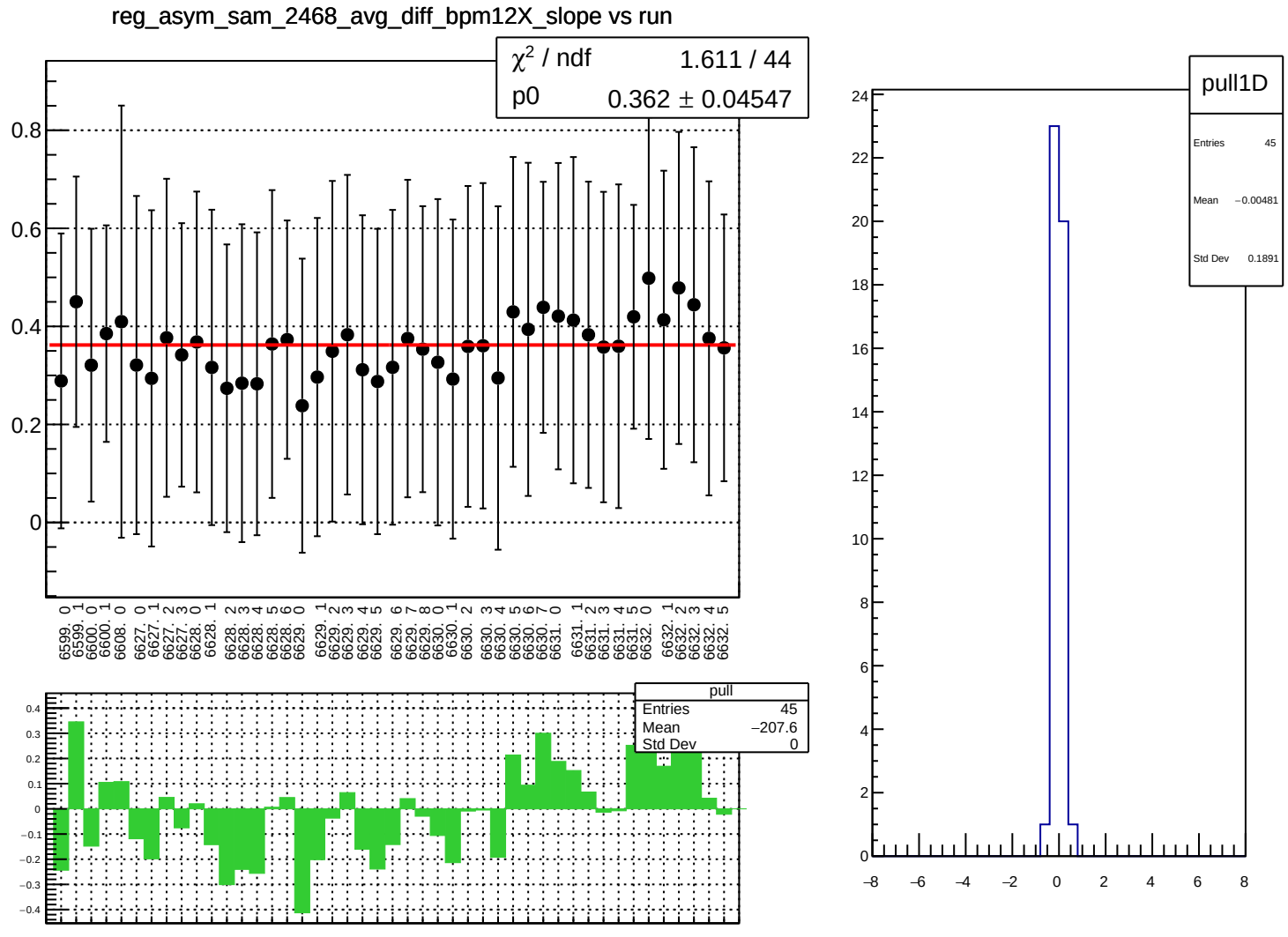

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.942 / 44
p0 −0.7553 ± 0.7049
10
5
0
−5
−10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 115.6
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 45
Mean −0.006725
Std Dev 0.42
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

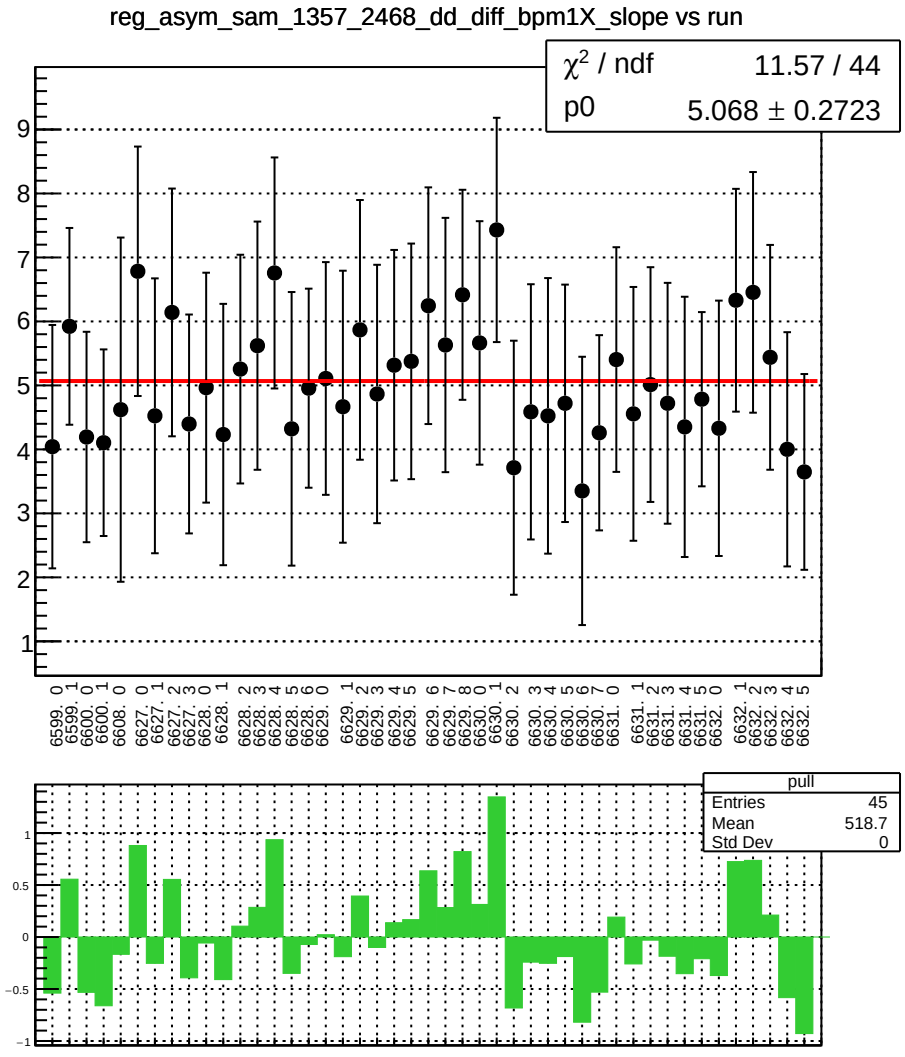

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.58 / 44
p0 −71.6 ± 1.109
pull
Entries 45
Mean 65.75
Std Dev 12.66

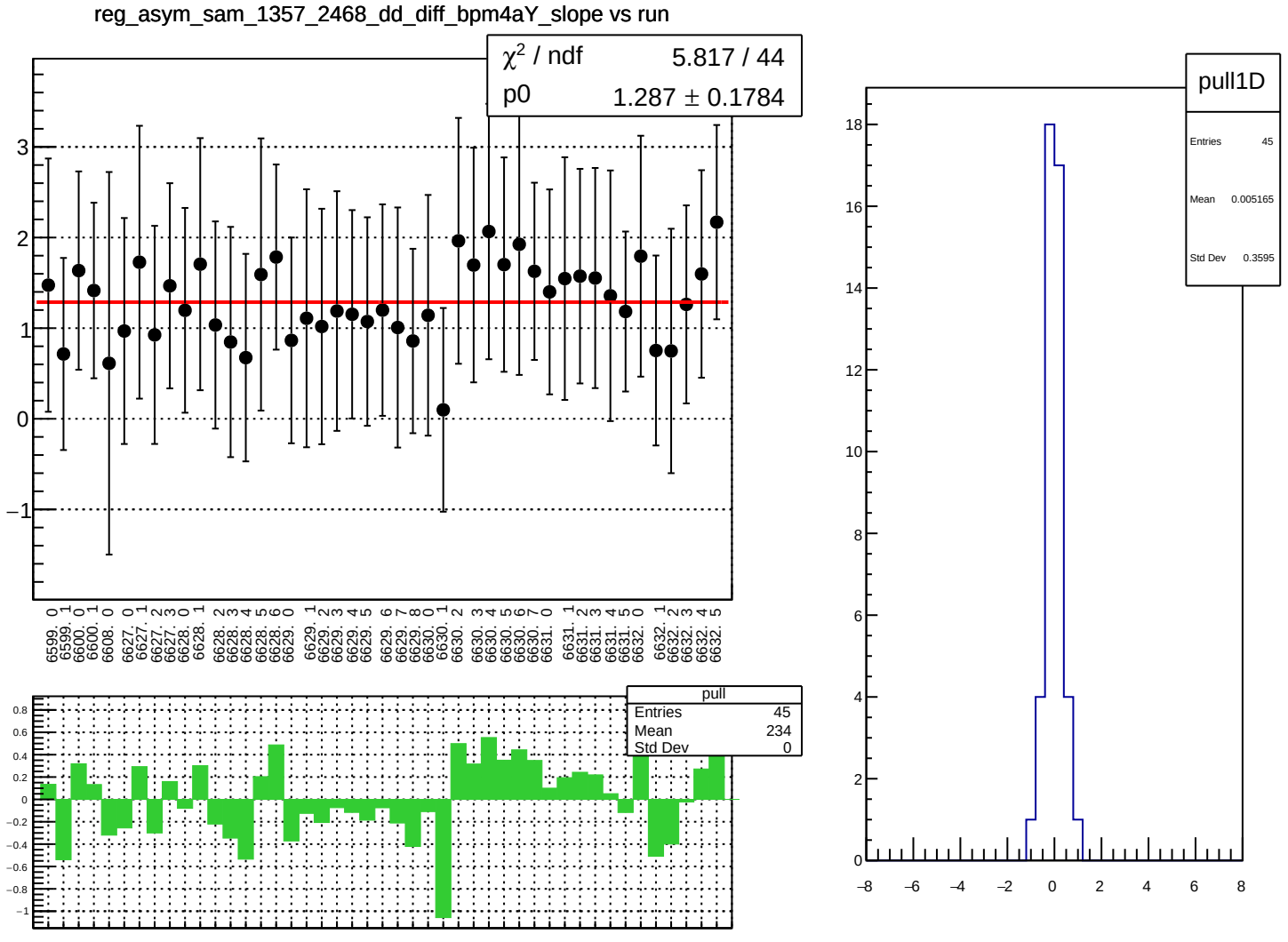

pull1D
Entries 45
Mean −0.01133
Std Dev 0.6069

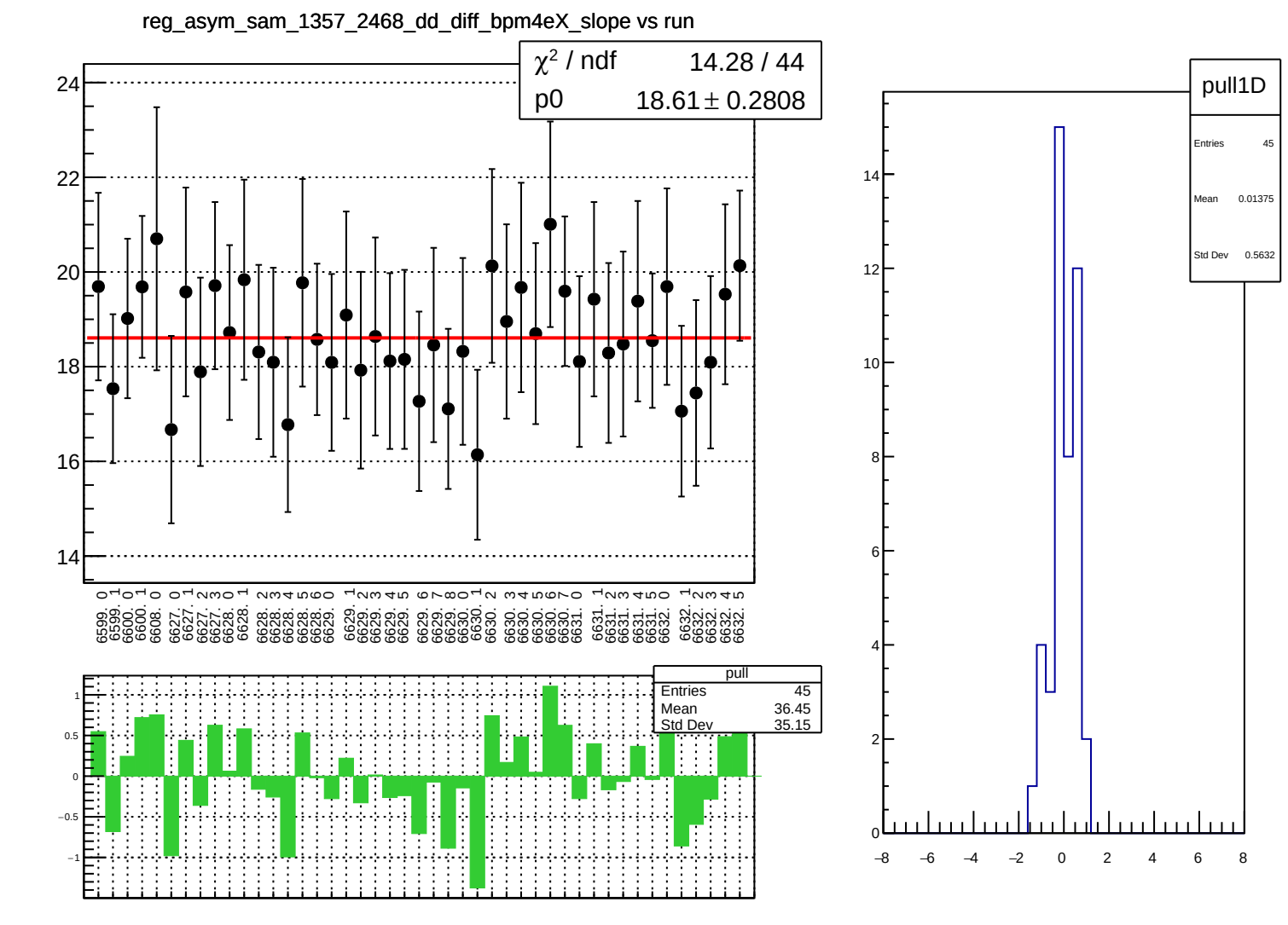

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.21 / 44
p0 43.45 ± 0.8433
pull
Entries 45
Mean −468.4
Std Dev 0

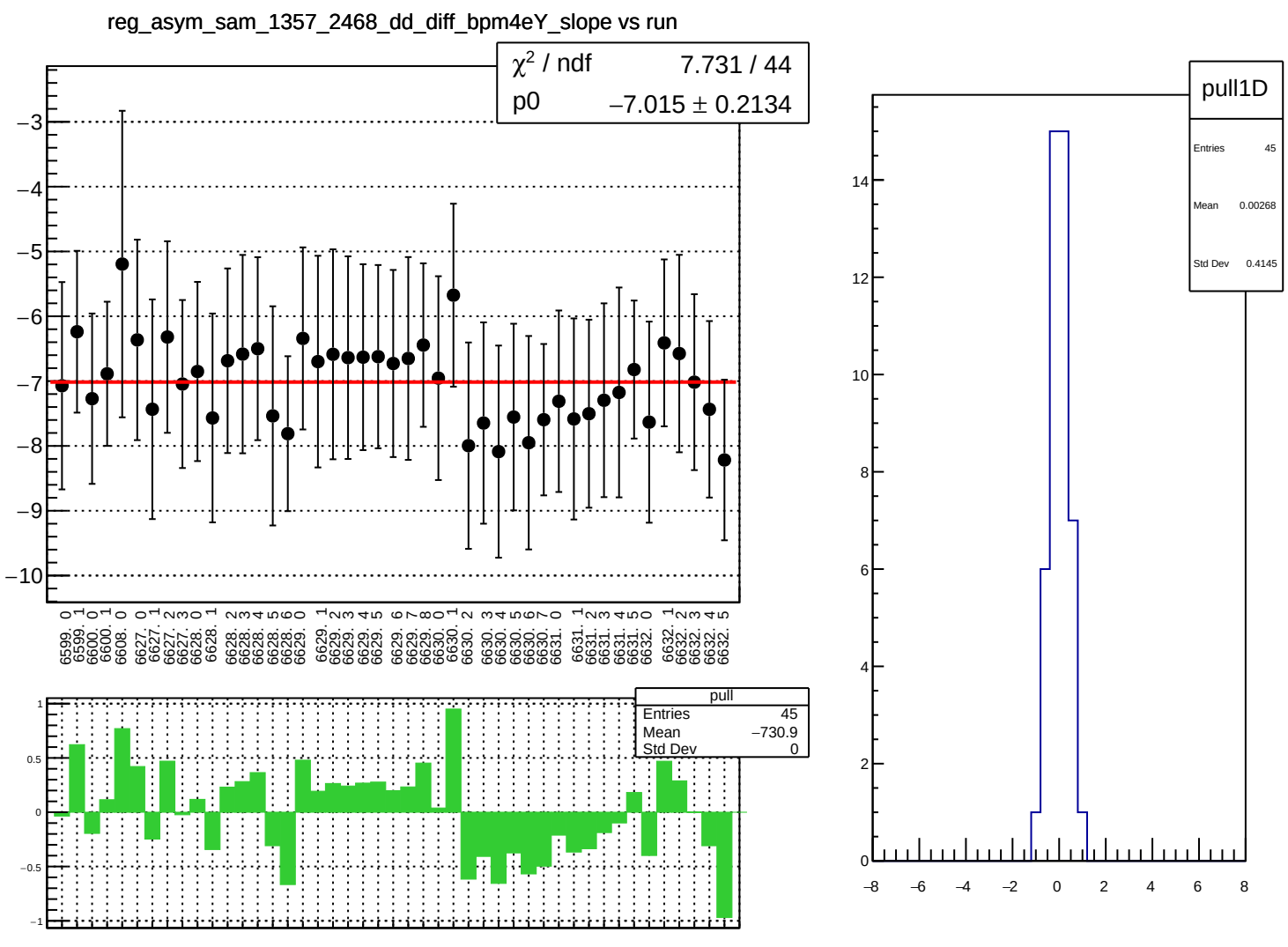

pull1D
Entries 45
Mean −0.002826
Std Dev 0.499

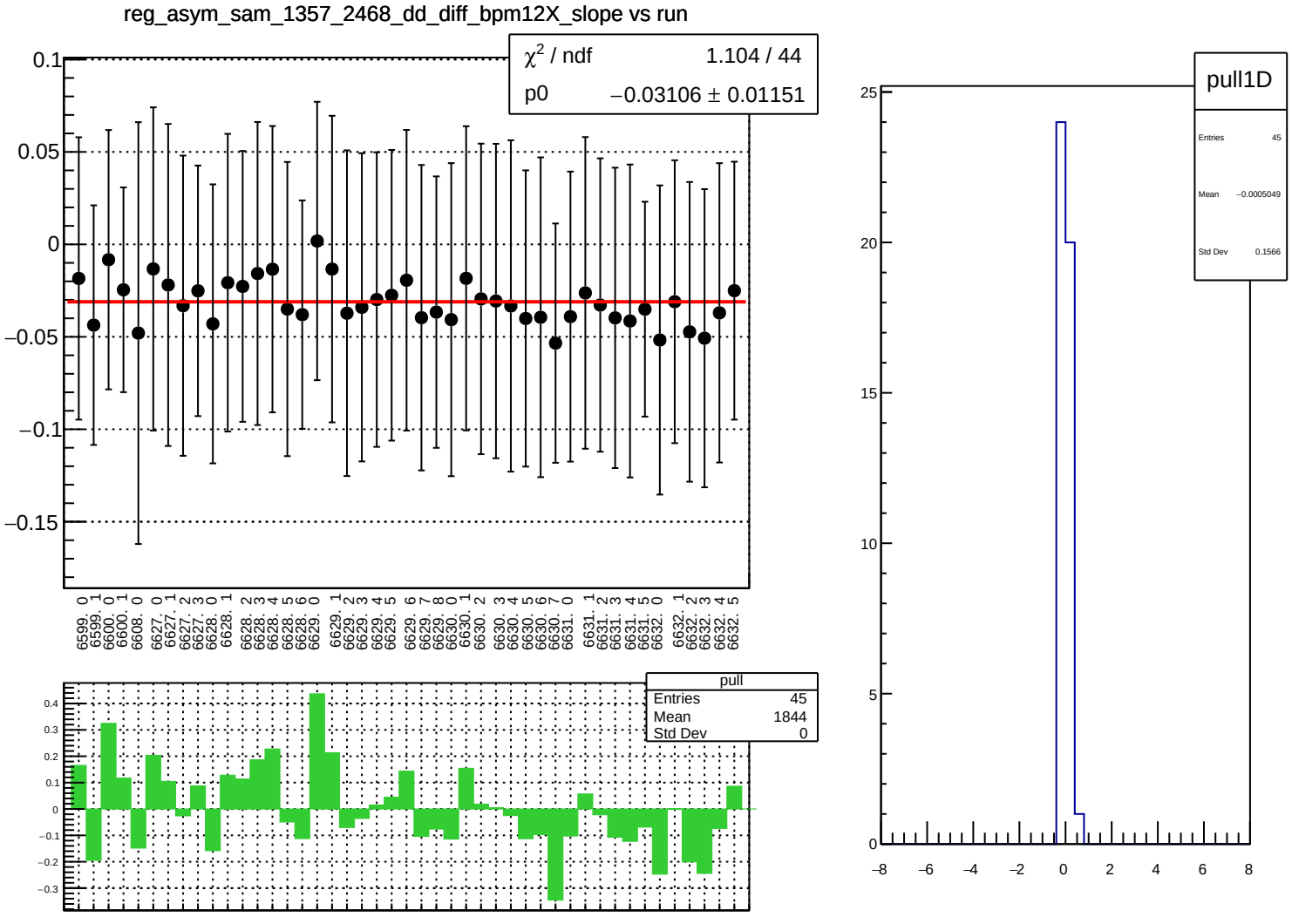

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 1.611 / 44
p0 0.362 ± 0.04547
pull
Entries 45
Mean −207.6
Std Dev 0
pull1D
Entries 45
Mean −0.00481
Std Dev 0.1891

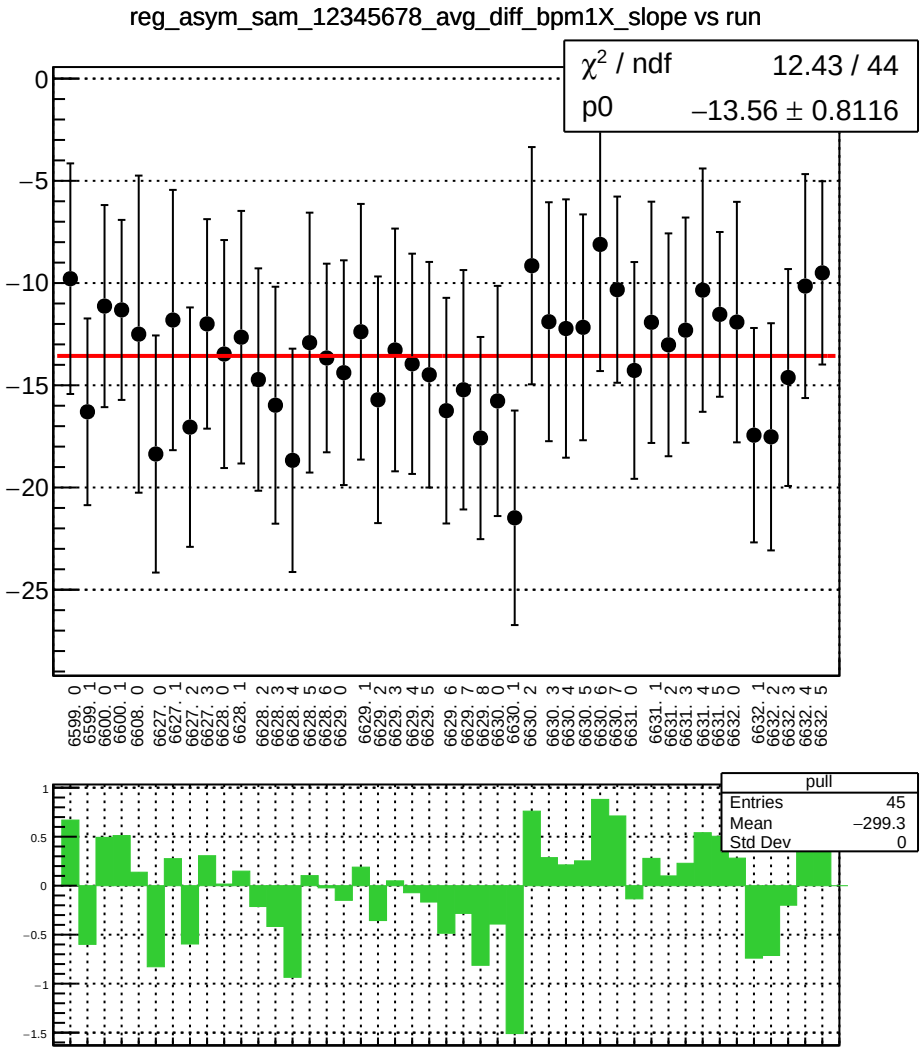

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 11.57 / 44
p0 5.068 ± 0.2723
pull
Entries 45
Mean 518.7
Std Dev 0
pull1D
Entries 45
Mean −0.001099
Std Dev 0.507

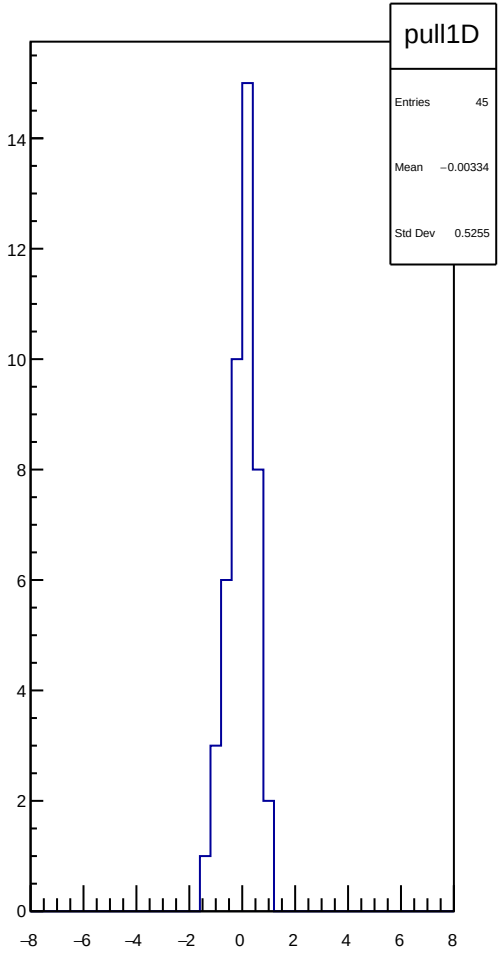

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.817 / 44
p0 1.287 ± 0.1784
pull
Entries 45
Mean 234
Std Dev 0
pull1D
Entries 45
Mean 0.005165
Std Dev 0.3595

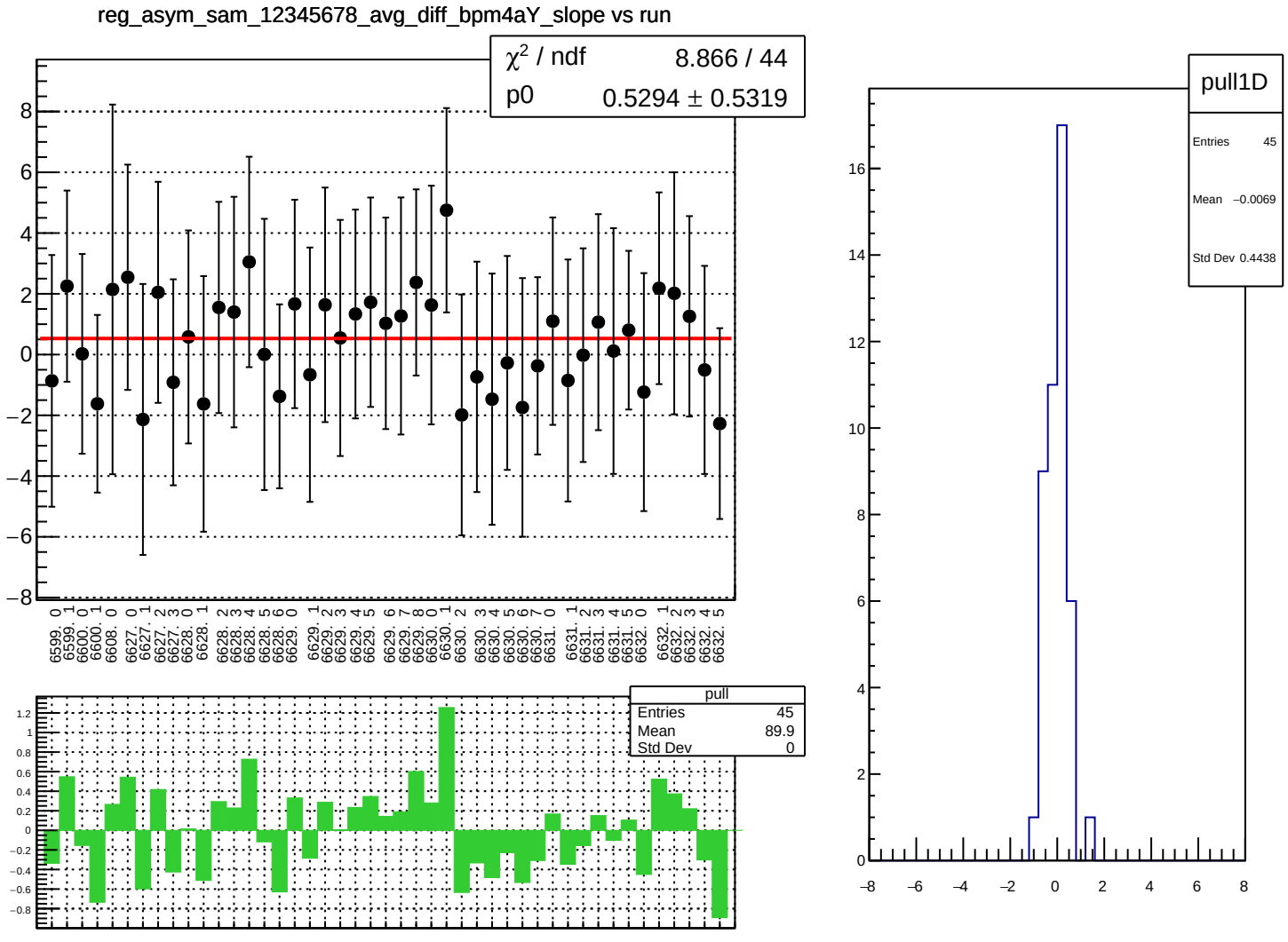

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.28 / 44
p0 18.61 ± 0.2808
pull
Entries 45
Mean 36.45
Std Dev 35.15
pull1D
Entries 45
Mean 0.01375
Std Dev 0.5632

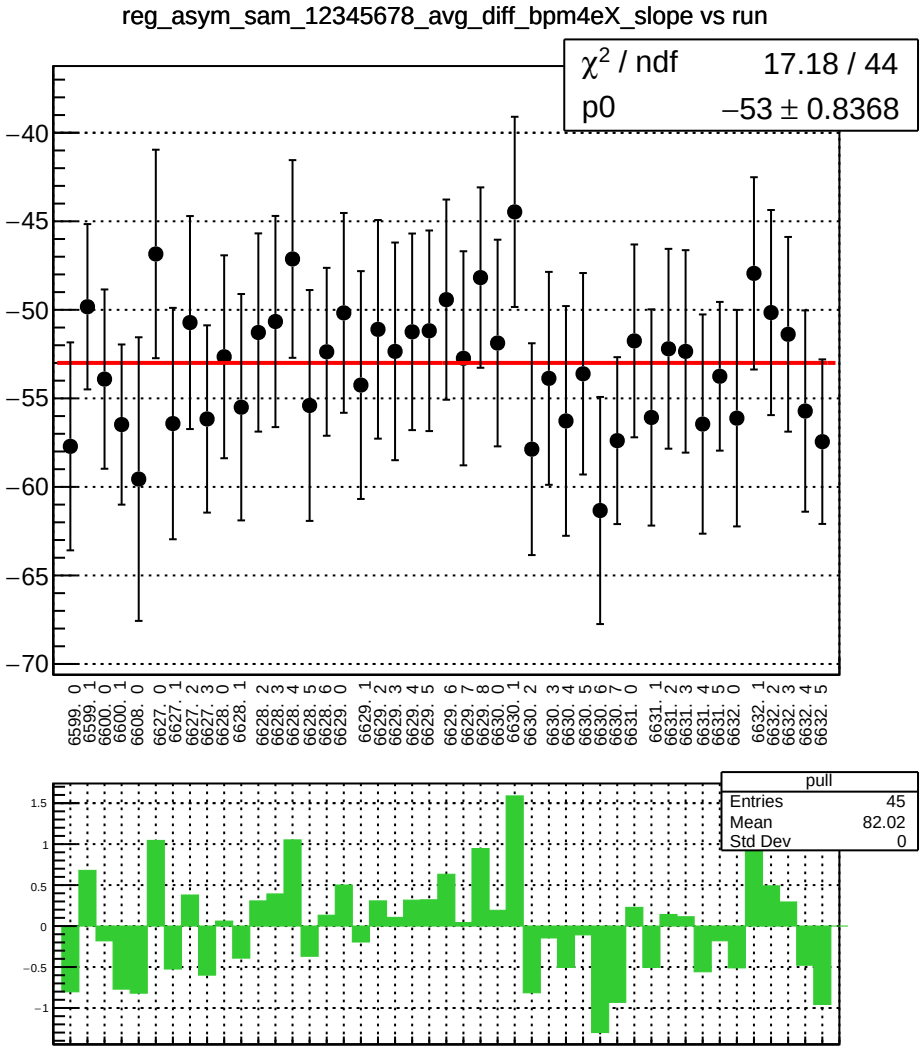

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.731 / 44
p0 −7.015 ± 0.2134
−3
−4
−5
−6
−7
−8
−9
−10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −730.9
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean 0.00268
Std Dev 0.4145
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

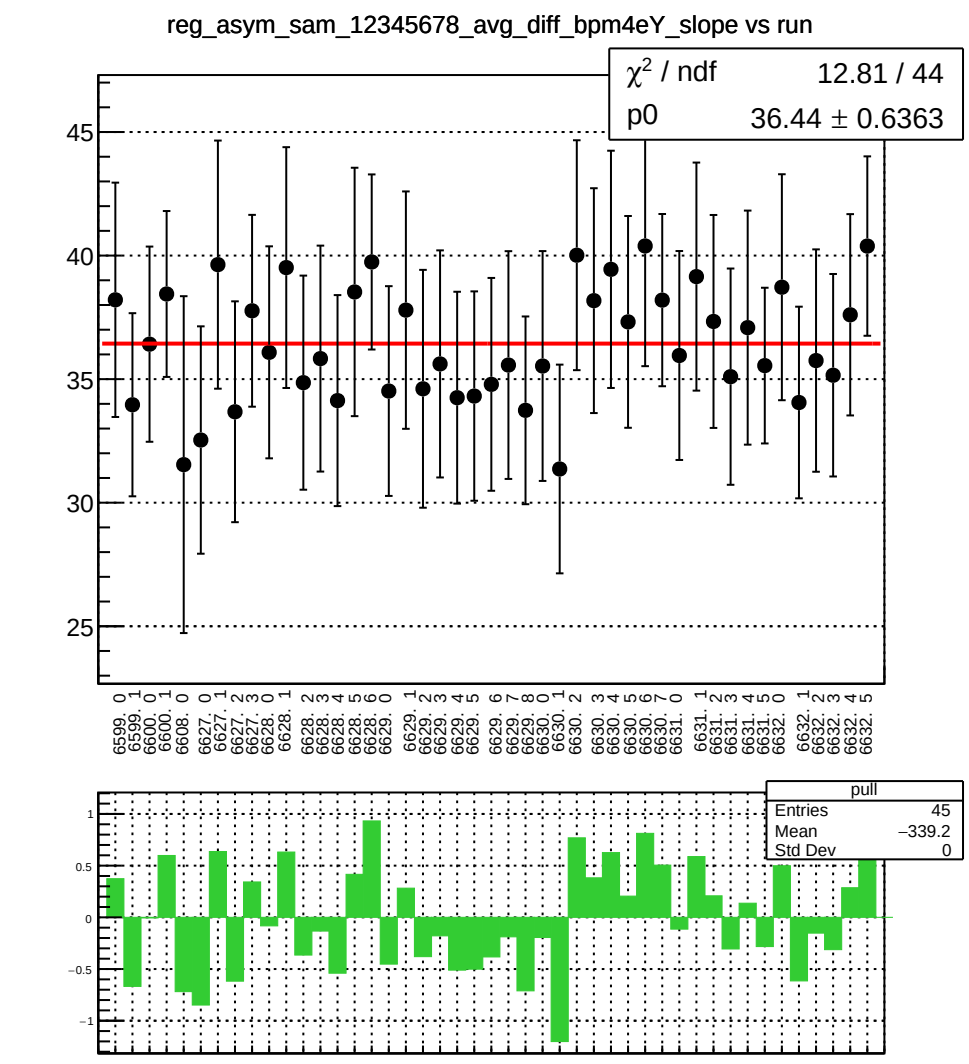

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 1.104 / 44
p0 −0.03106 ± 0.01151
0.1
0.05
0
−0.05
−0.1
−0.15
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 1844
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 45
Mean −0.0005049
Std Dev 0.1566
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

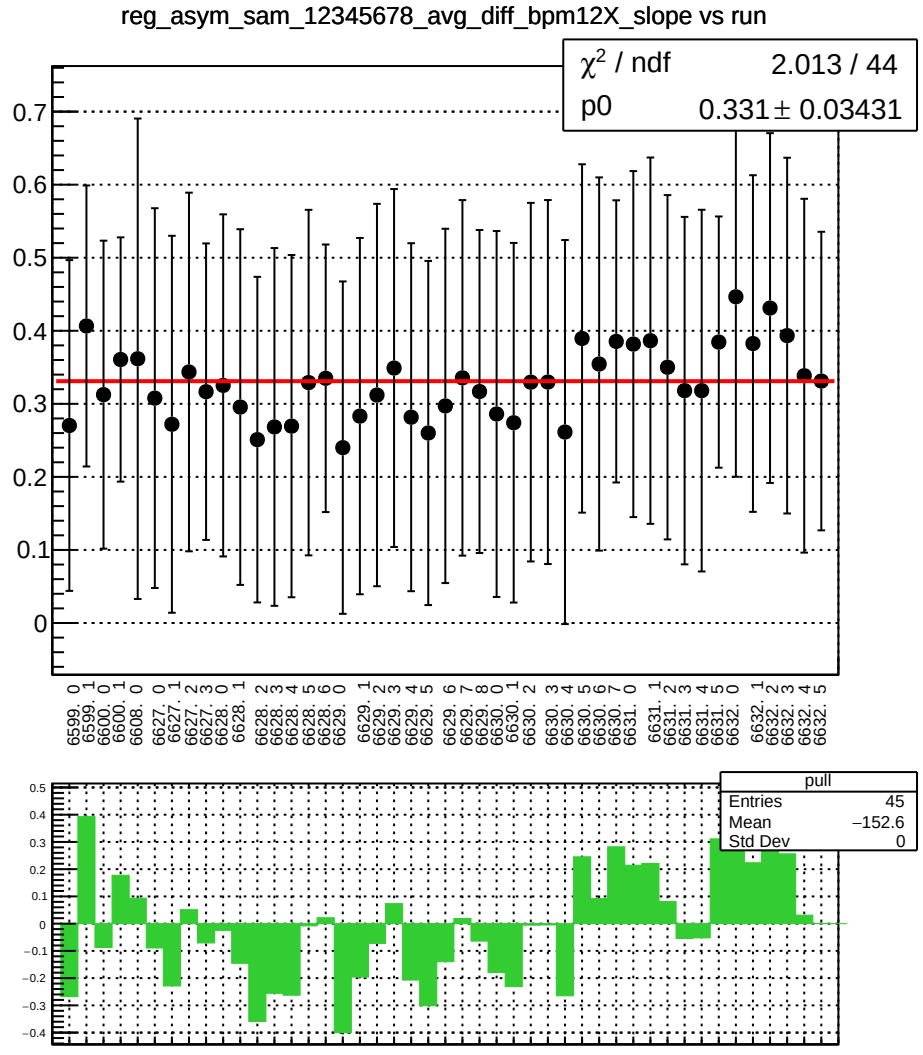

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 12.43 / 44
p0 −13.56 ± 0.8116
pull
Entries 45
Mean −299.3
Std Dev 0

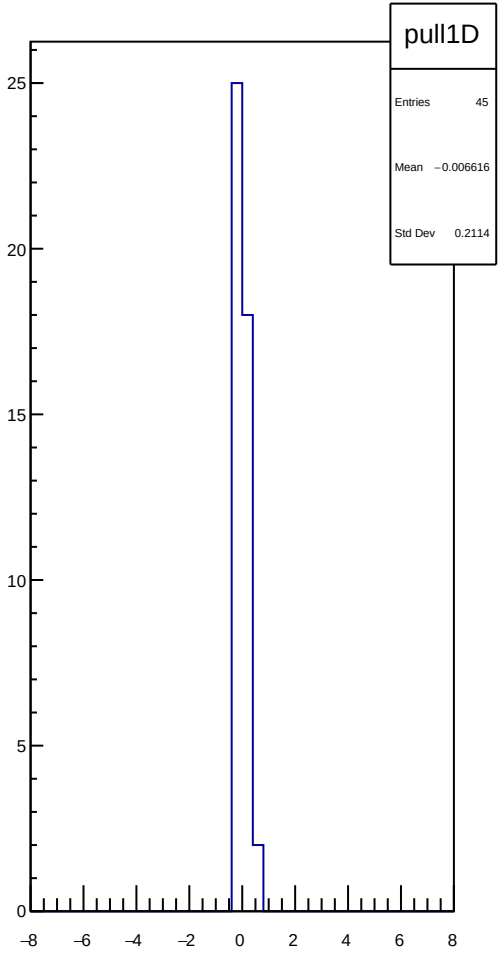

pull1D
Entries 45
Mean −0.00334
Std Dev 0.5255

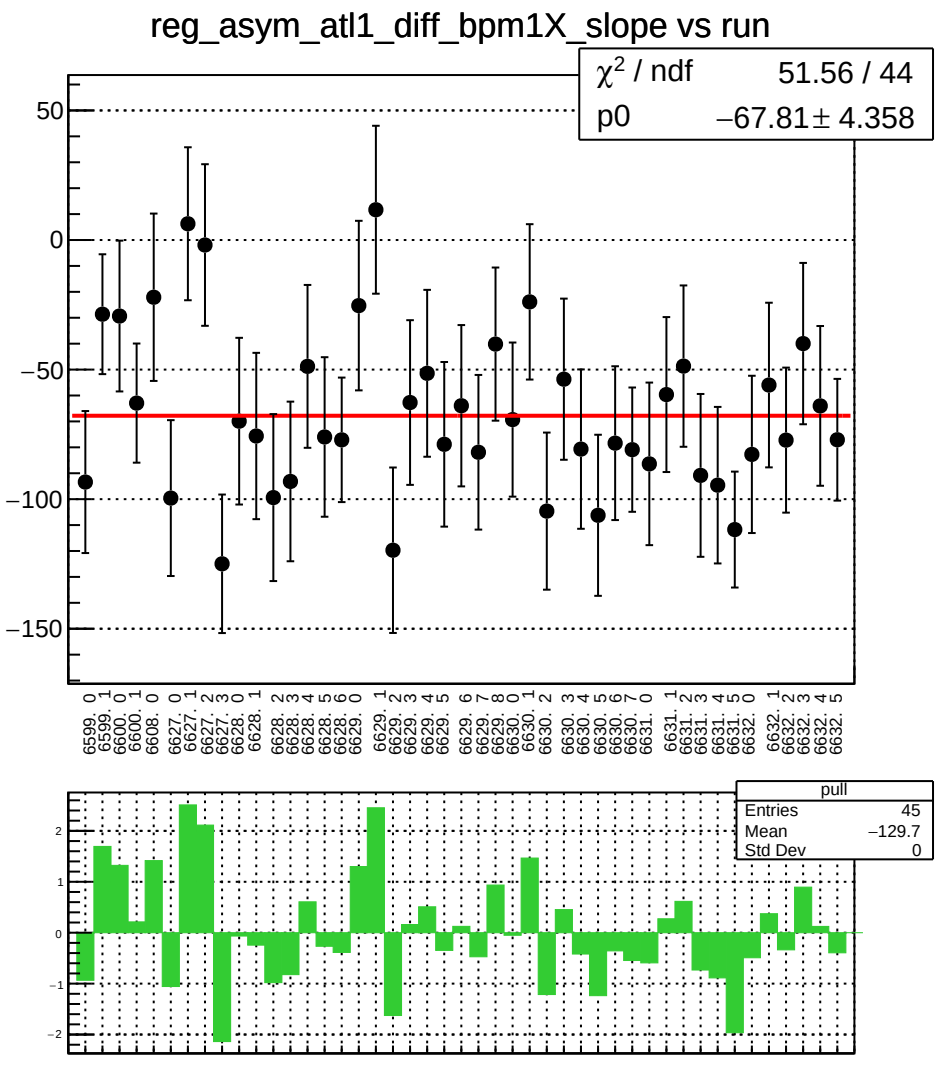

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.866 / 44
p0 0.5294 ± 0.5319
pull
Entries 45
Mean 89.9
Std Dev 0
pull1D
Entries 45
Mean −0.0069
Std Dev 0.4438

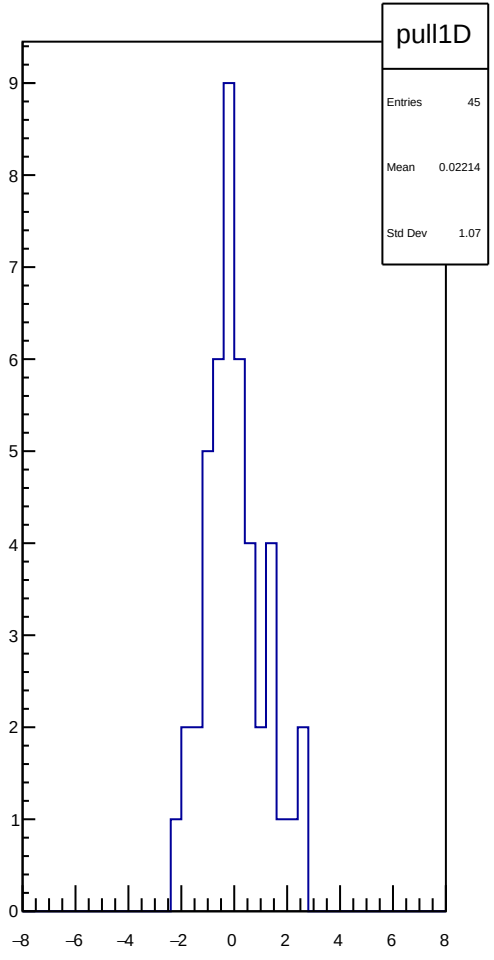

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.18 / 44
p0 −53 ± 0.8368
pull
Entries 45
Mean 82.02
Std Dev 0
pull1D
Entries 45
Mean −0.009824
Std Dev 0.6178

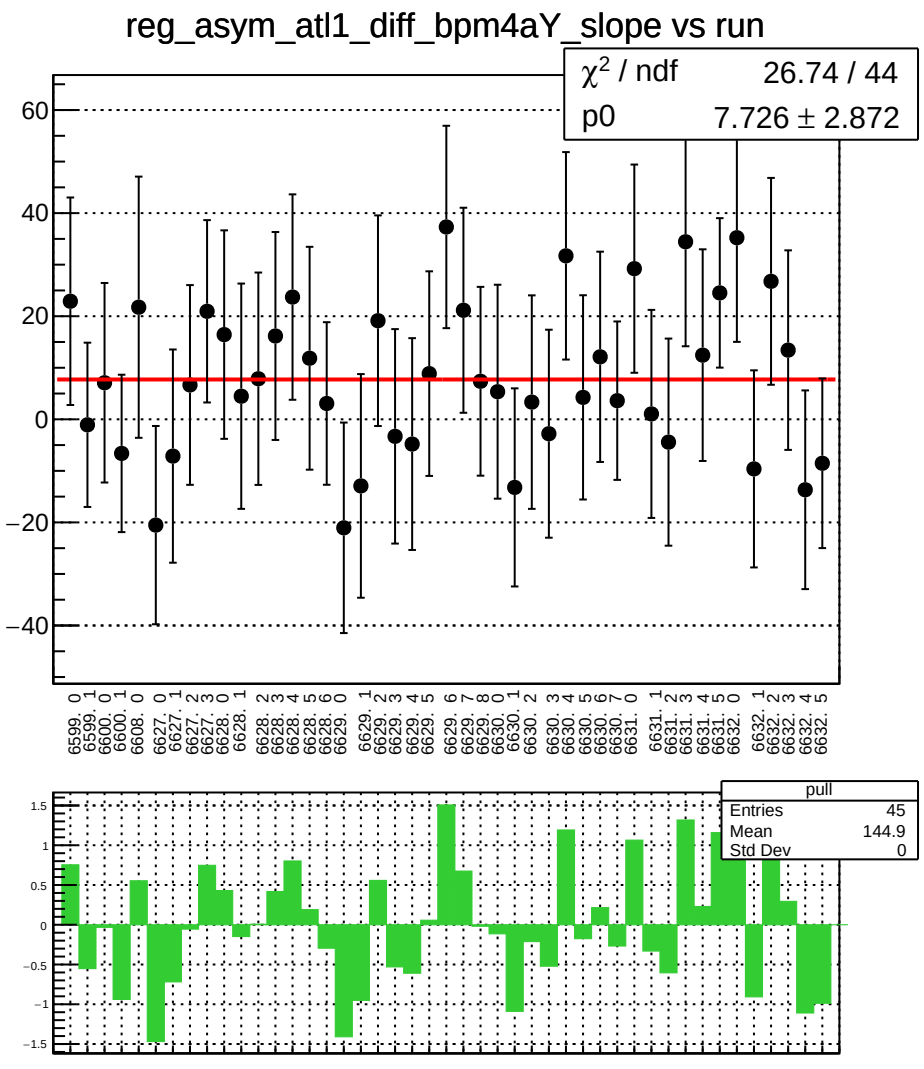

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.81 / 44
p0 36.44 ± 0.6363
45
40
35
30
25
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −339.2
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.003219
Std Dev 0.5334
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

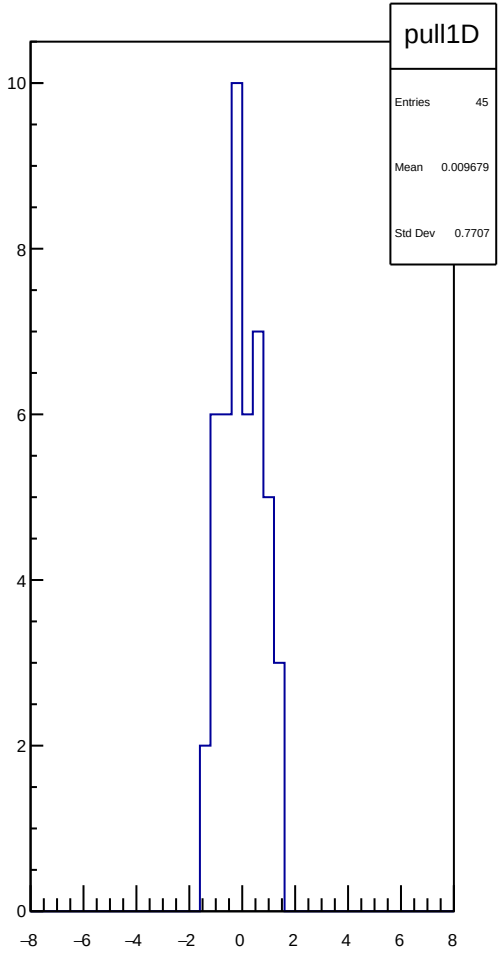

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 2.013 / 44
p0 0.331 ± 0.03431
pull
Entries 45
Mean −152.6
Std Dev 0

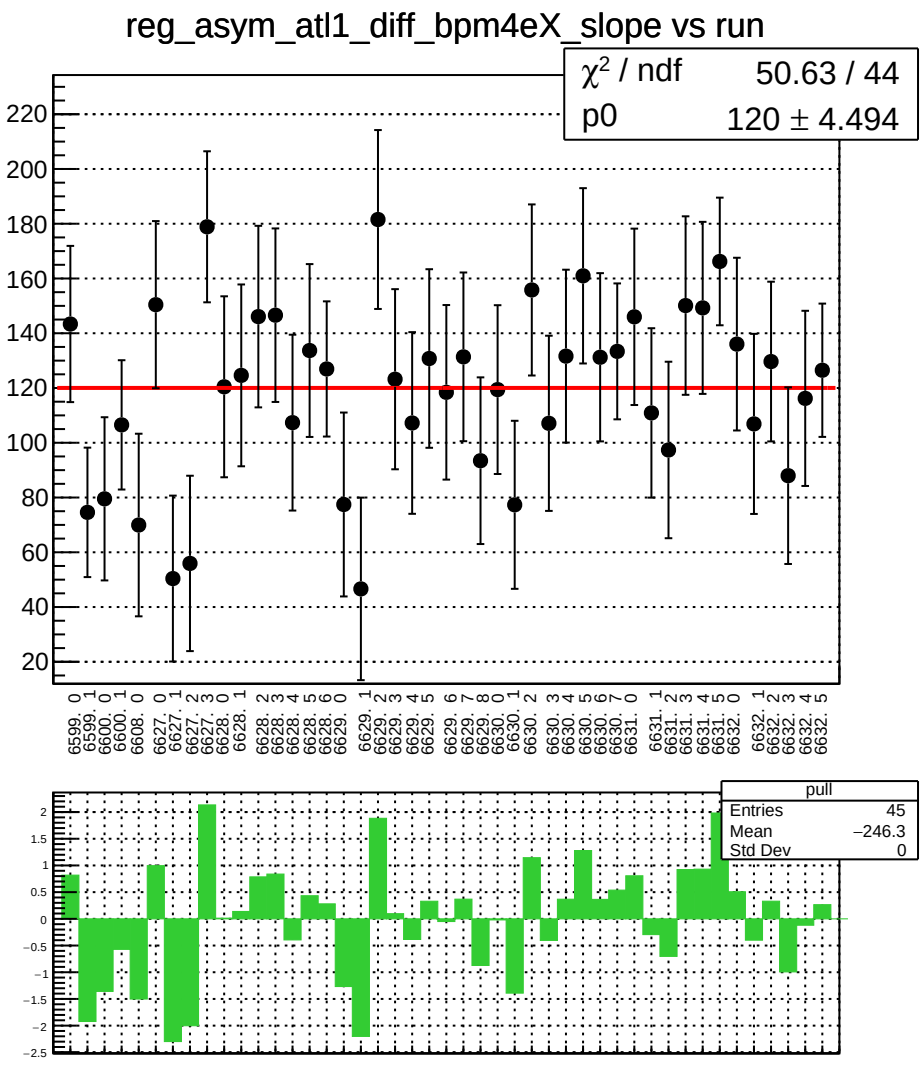

pull1D
Entries 45
Mean −0.006616
Std Dev 0.2114

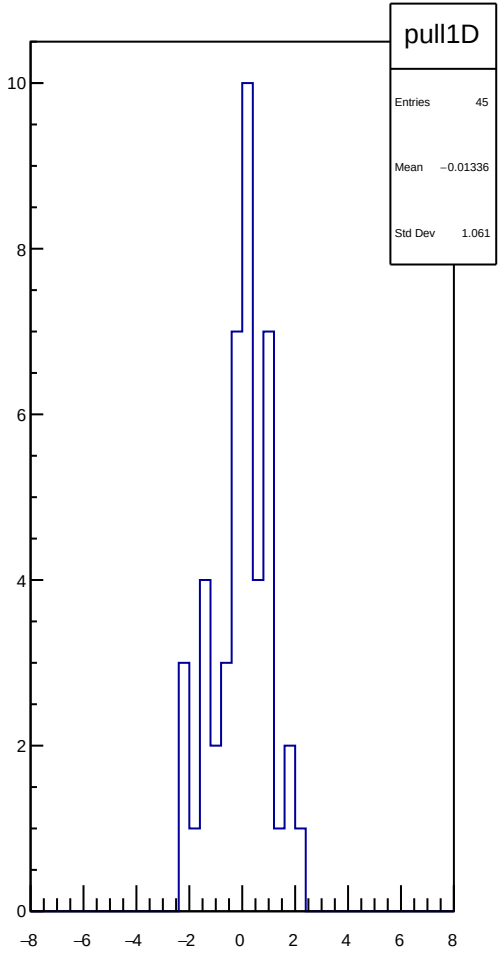

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 51.56 / 44
p0 −67.81 ± 4.358
50
0
−50
−100
−150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −129.7
Std Dev 0
2
1
0
−1
−2

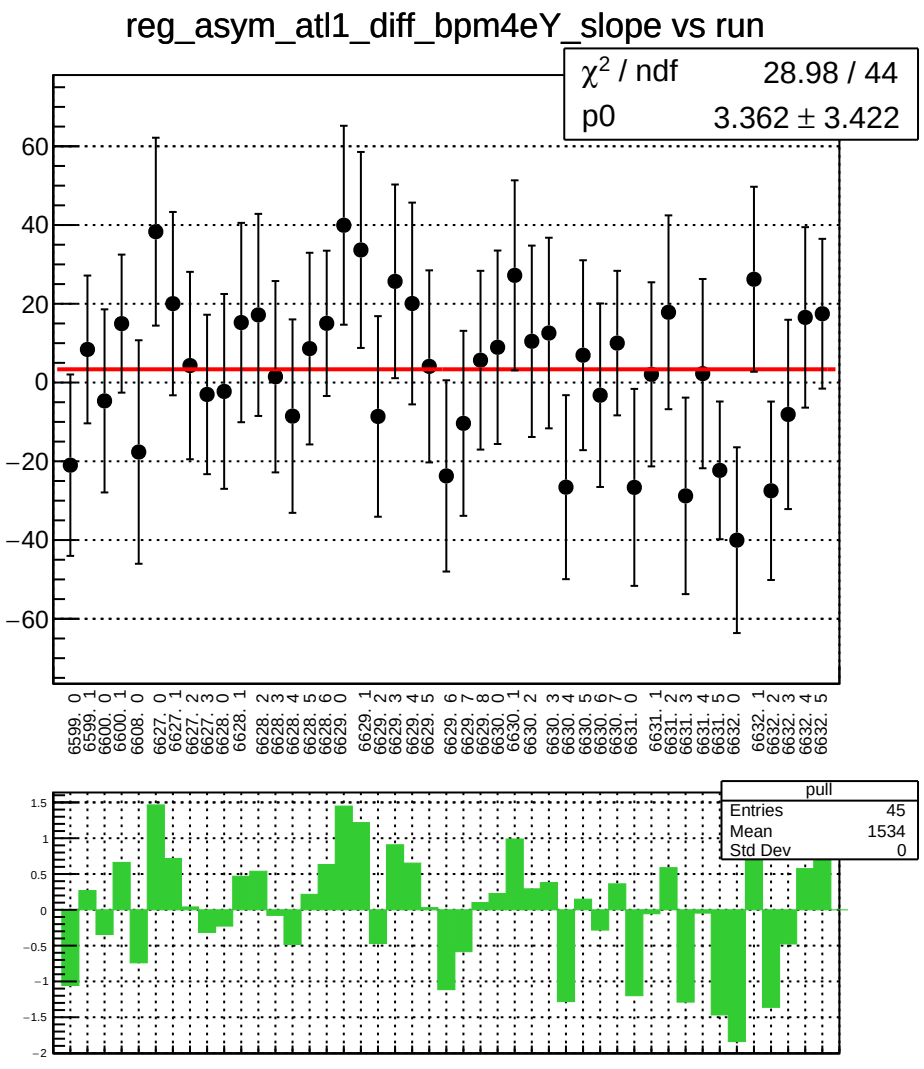

pull1D
Entries 45
Mean 0.02214
Std Dev 1.07
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

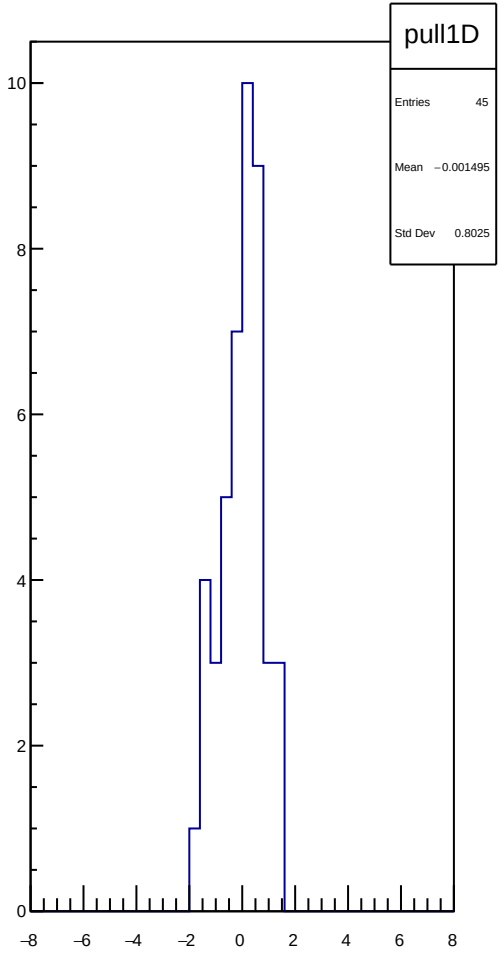

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 26.74 / 44
p0 7.726 ± 2.872
pull
Entries 45
Mean 144.9
Std Dev 0

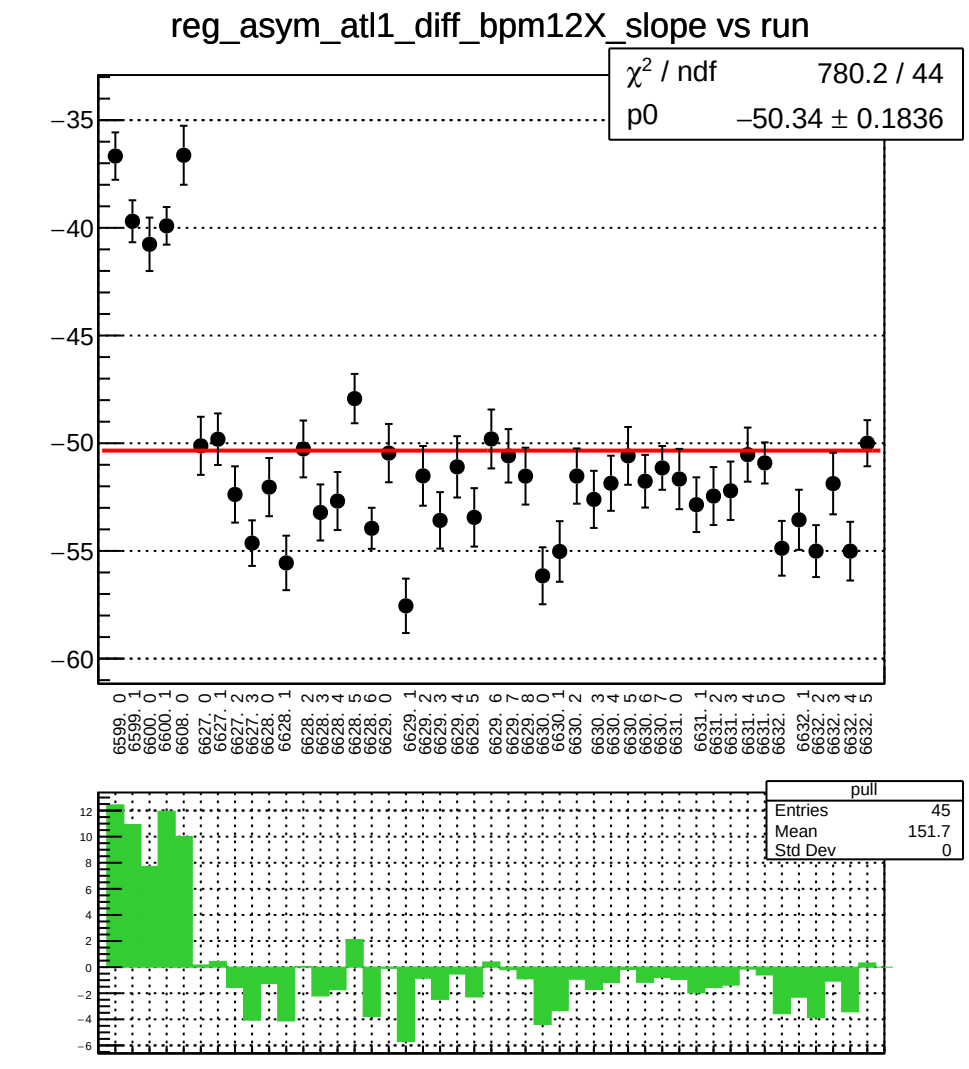

pull1D
Entries 45
Mean 0.009679
Std Dev 0.7707

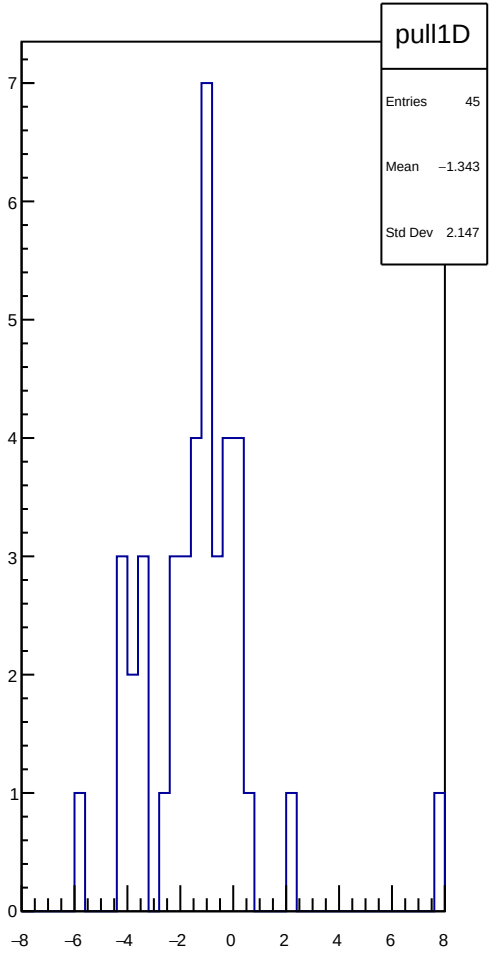

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 50.63 / 44
p0 120 ± 4.494
pull
Entries 45
Mean −246.3
Std Dev 0

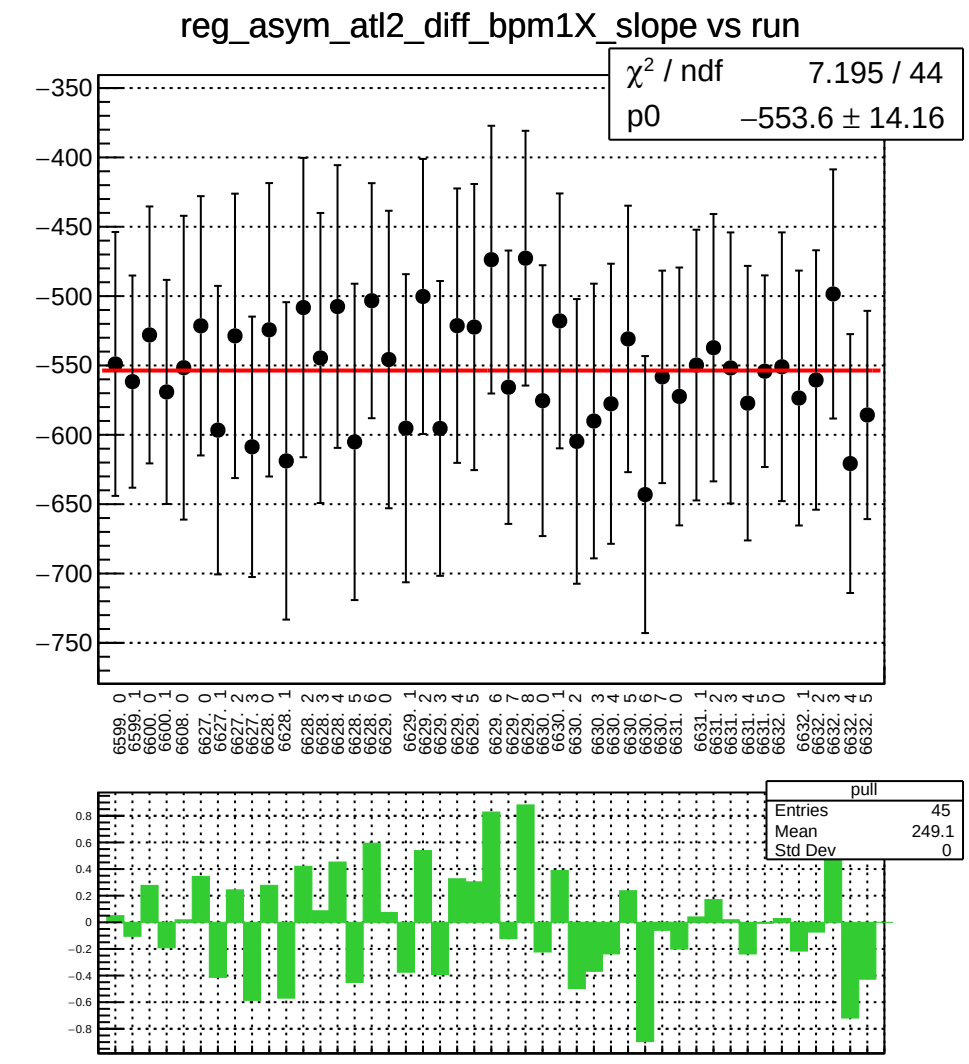

pull1D
Entries 45
Mean −0.01336
Std Dev 1.061

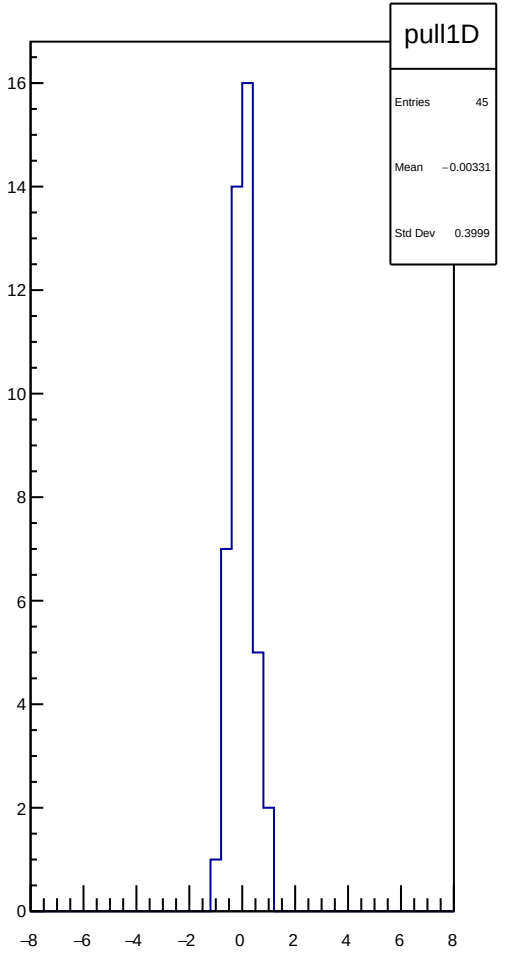

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 28.98 / 44
p0 3.362 ± 3.422
pull
Entries 45
Mean 1534
Std Dev 0

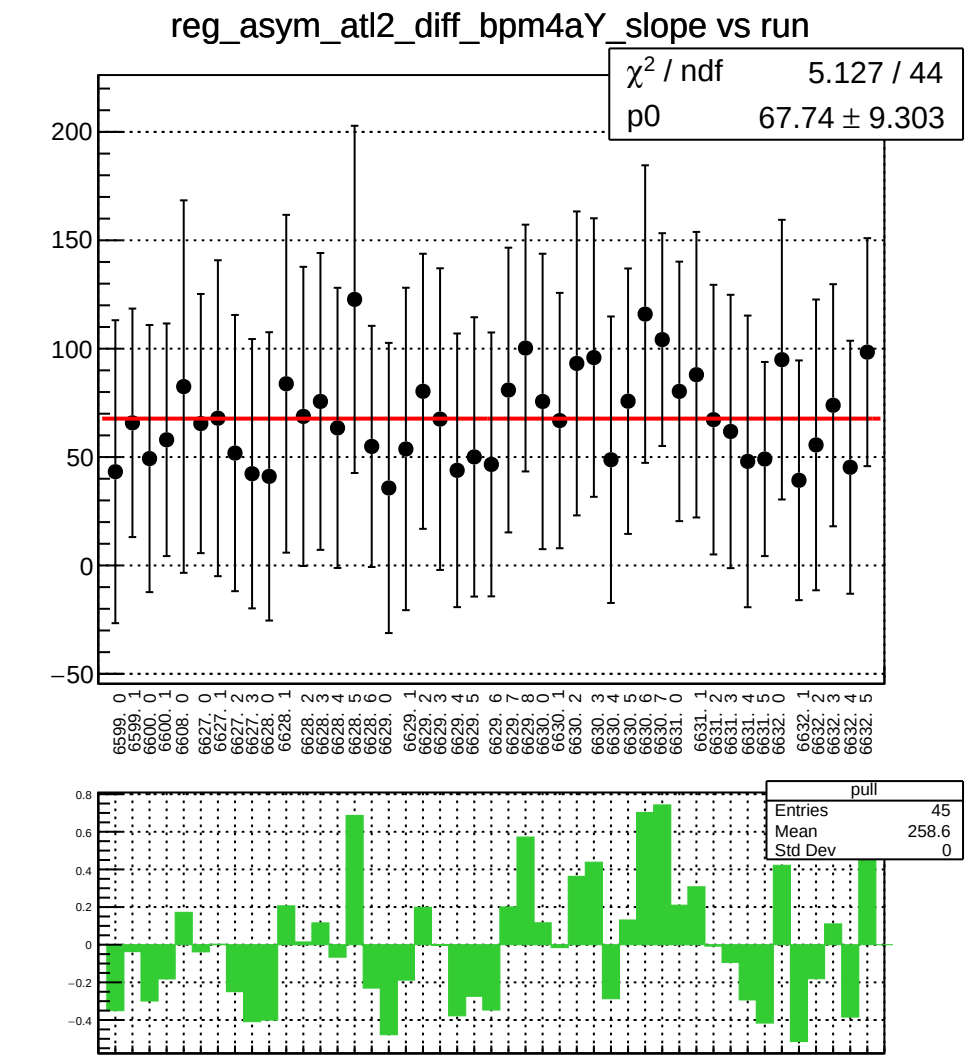

pull1D
Entries 45
Mean −0.001495
Std Dev 0.8025

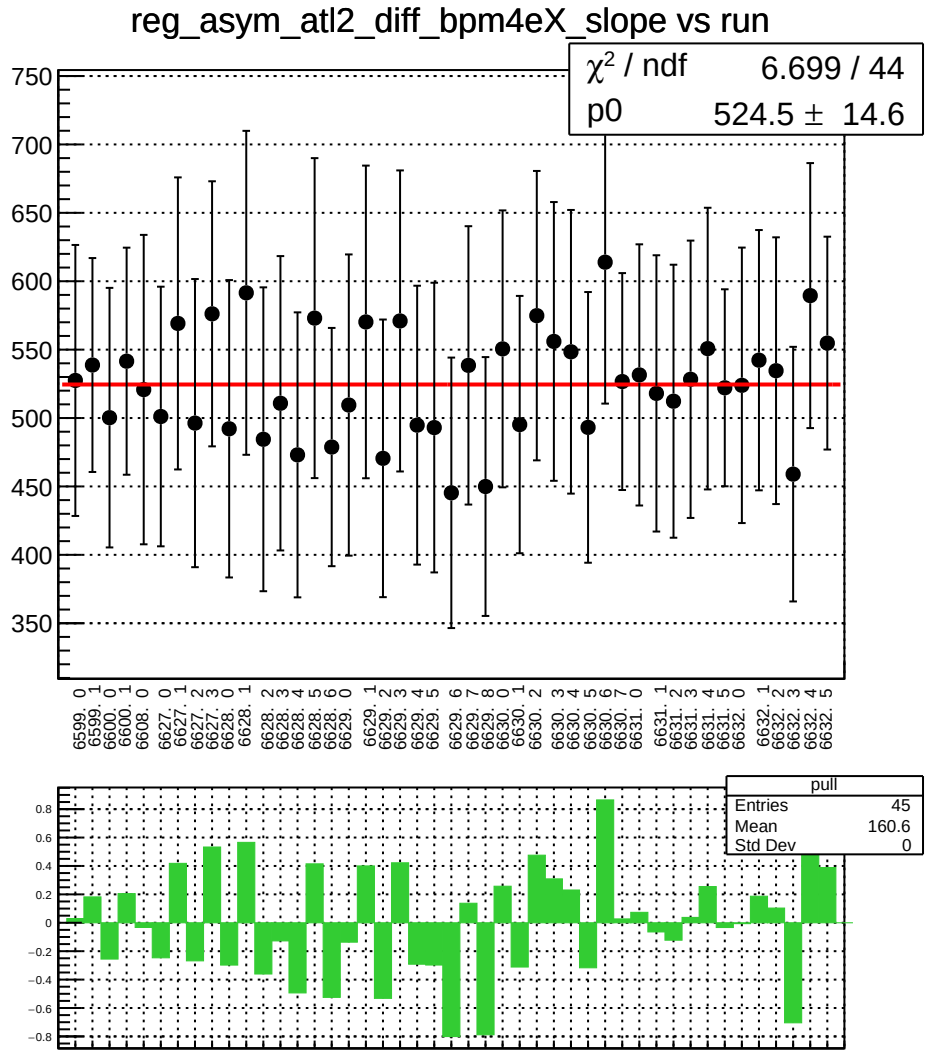

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 780.2 / 44
p0 −50.34 ± 0.1836
pull
Entries 45
Mean 151.7
Std Dev 0

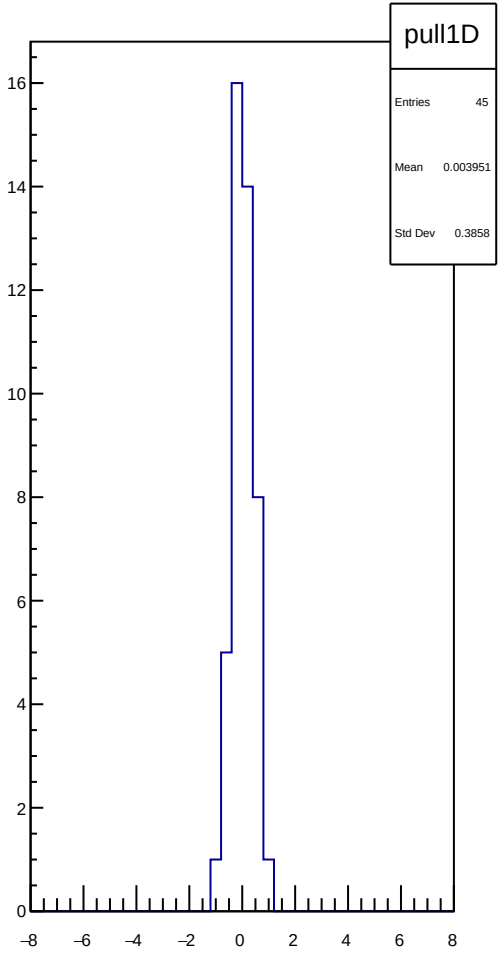

pull1D
Entries 45
Mean −1.343
Std Dev 2.147

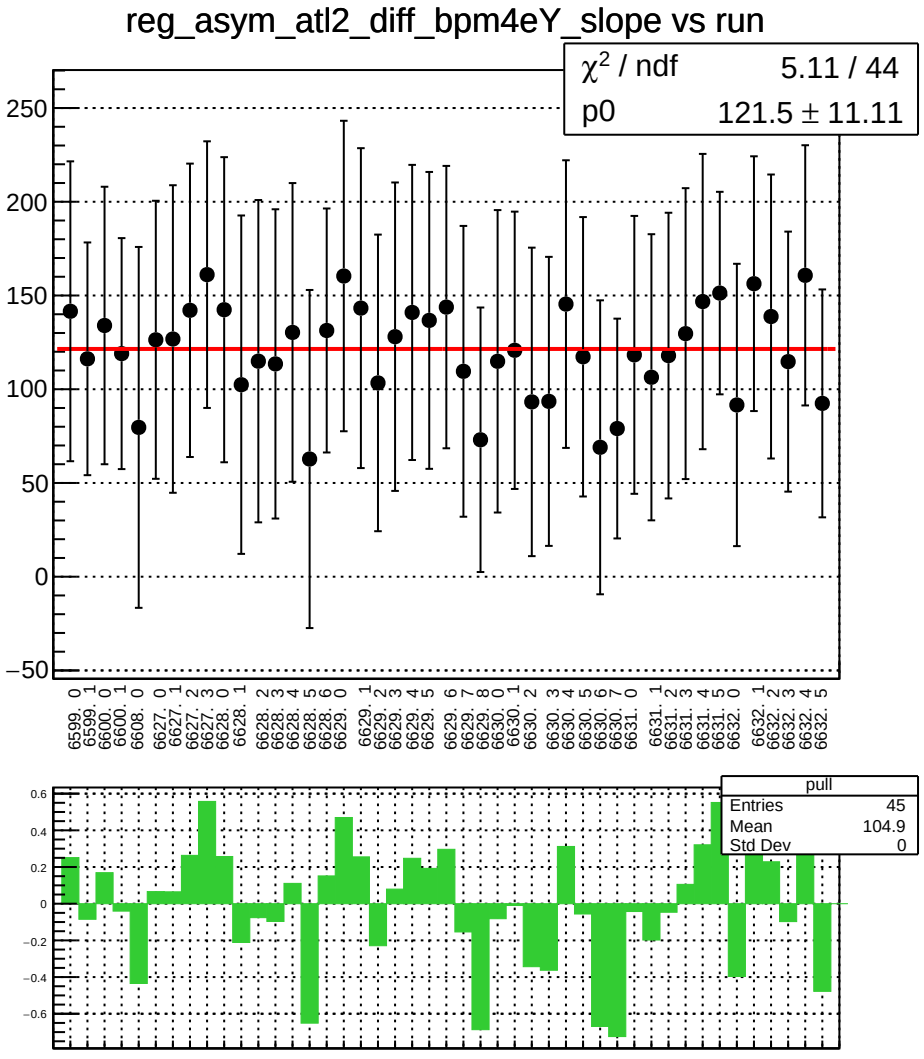

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 7.195 / 44
p0 −553.6 ± 14.16
−350
−400
−450
−500
−550
−600
−650
−700
−750
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 249.1
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

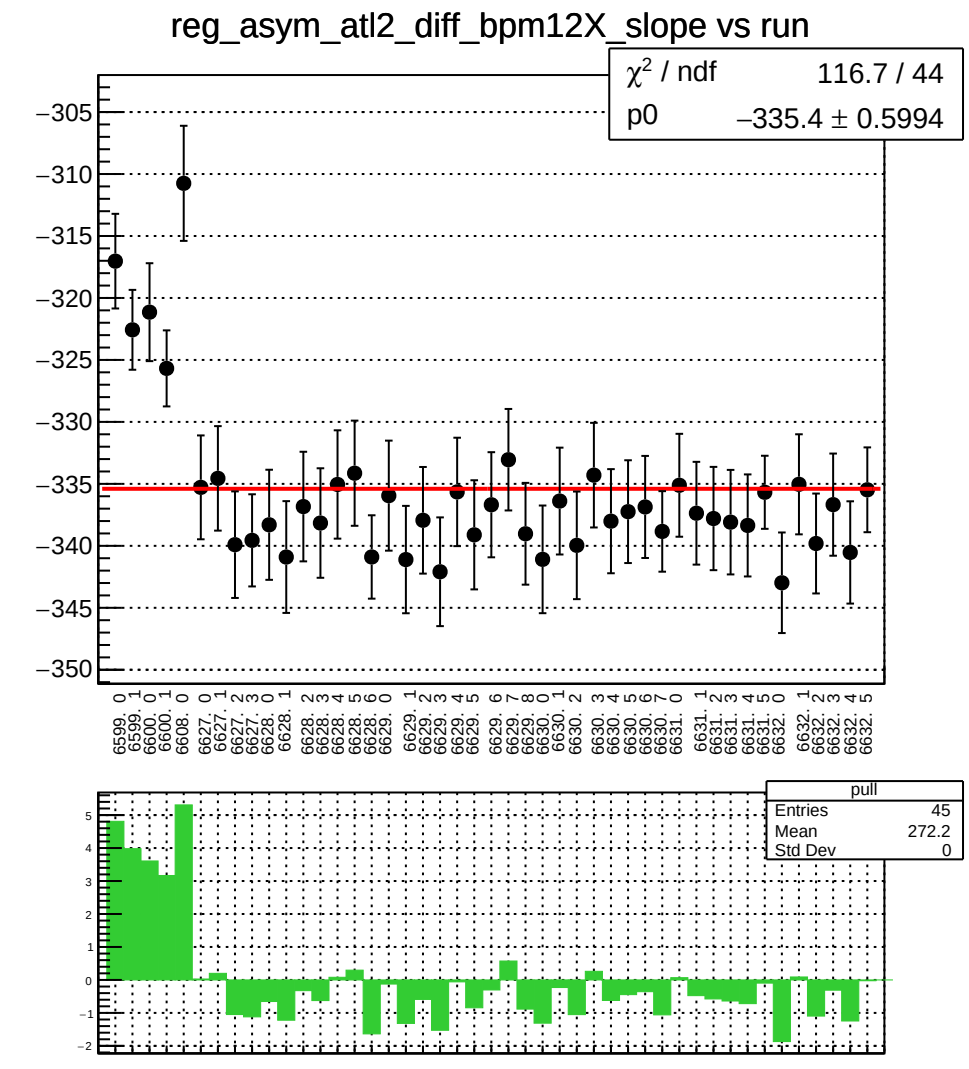

pull1D
Entries 45
Mean −0.00331
Std Dev 0.3999
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

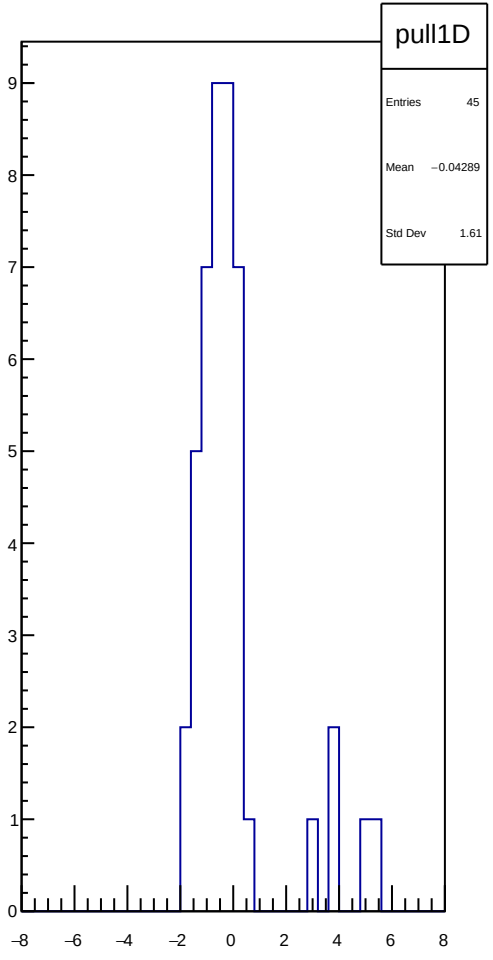

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 5.127 / 44
p0 67.74 ± 9.303
200
150
100
50
0
−50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 258.6
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 45
Mean 0.003851
Std Dev 0.3375
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

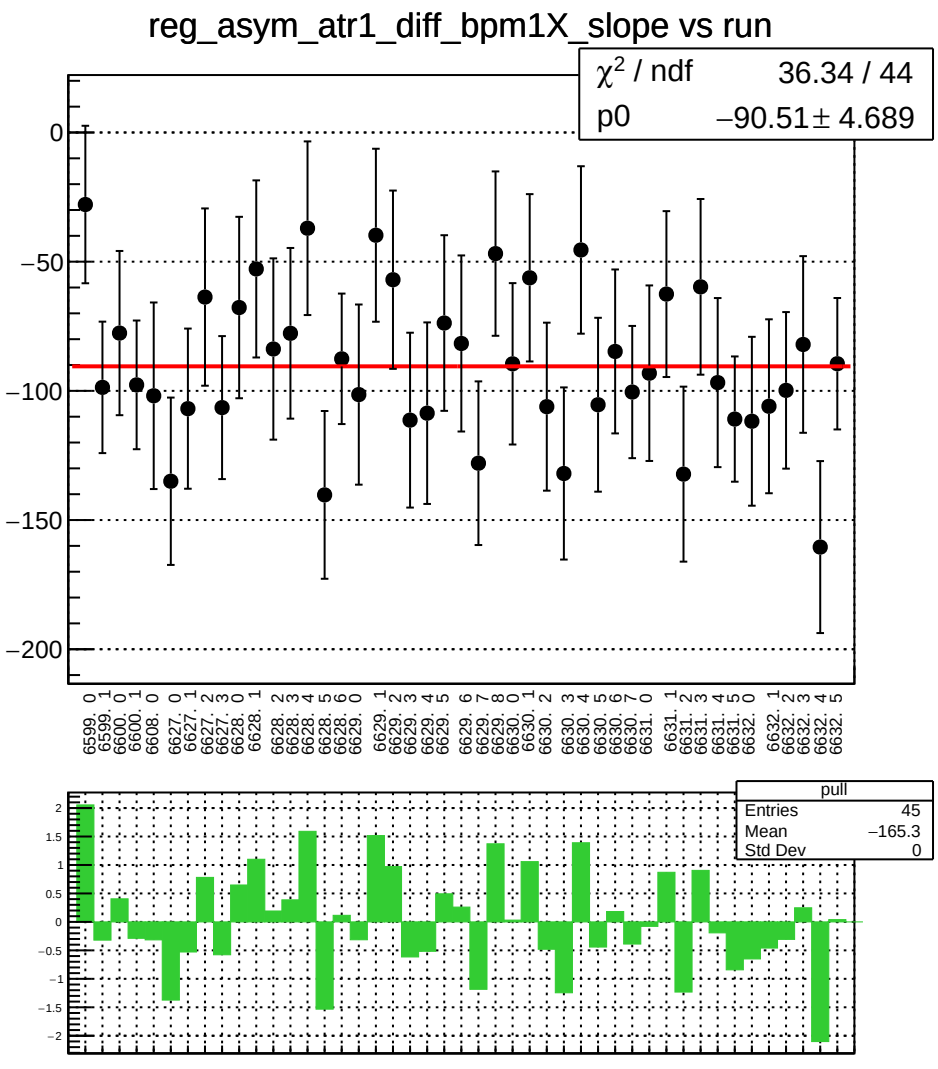

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 6.699 / 44
p0 524.5 ± 14.6
pull
Entries 45
Mean 160.6
Std Dev 0

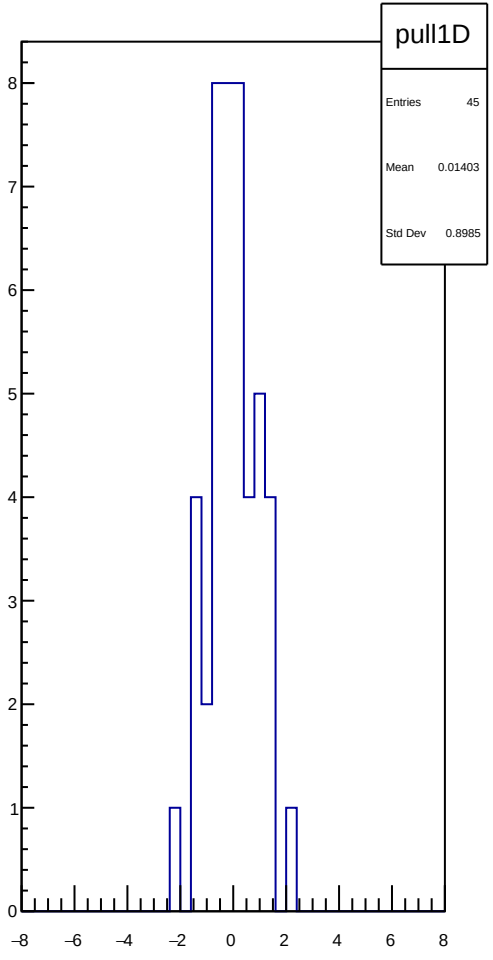

pull1D
Entries 45
Mean 0.003951
Std Dev 0.3858

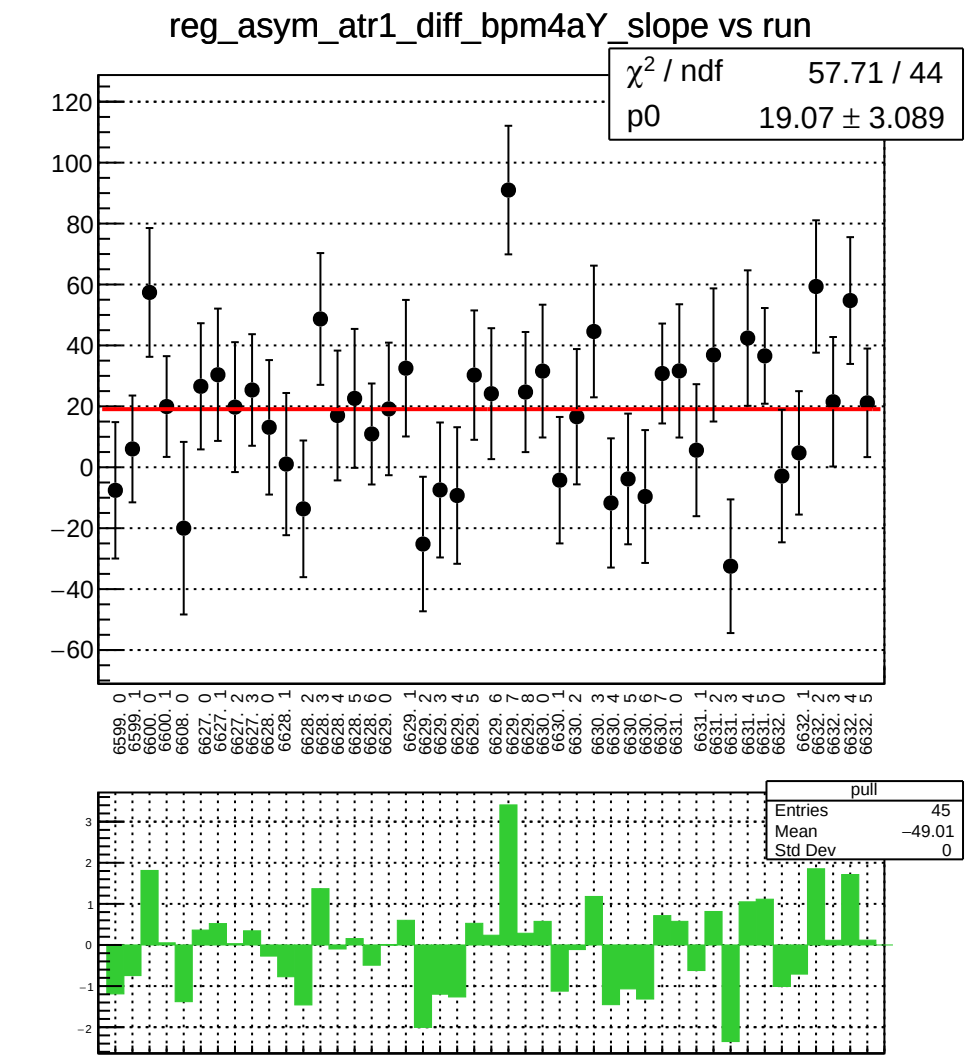

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 5.11 / 44
p0 121.5 ± 11.11
250
200
150
100
50
0
−50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 104.9
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 45
Mean −0.003162
Std Dev 0.337
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

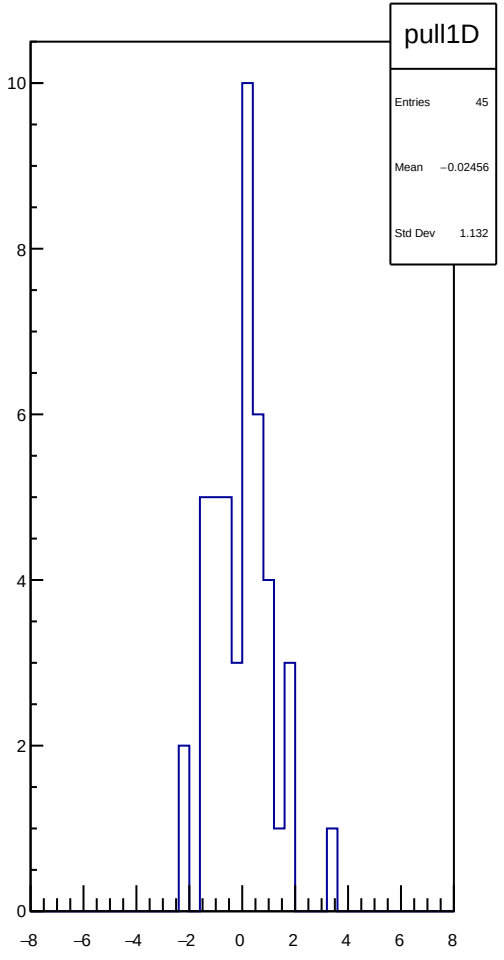

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 116.7 / 44
p0 −335.4 ± 0.5994
pull
Entries 45
Mean 272.2
Std Dev 0

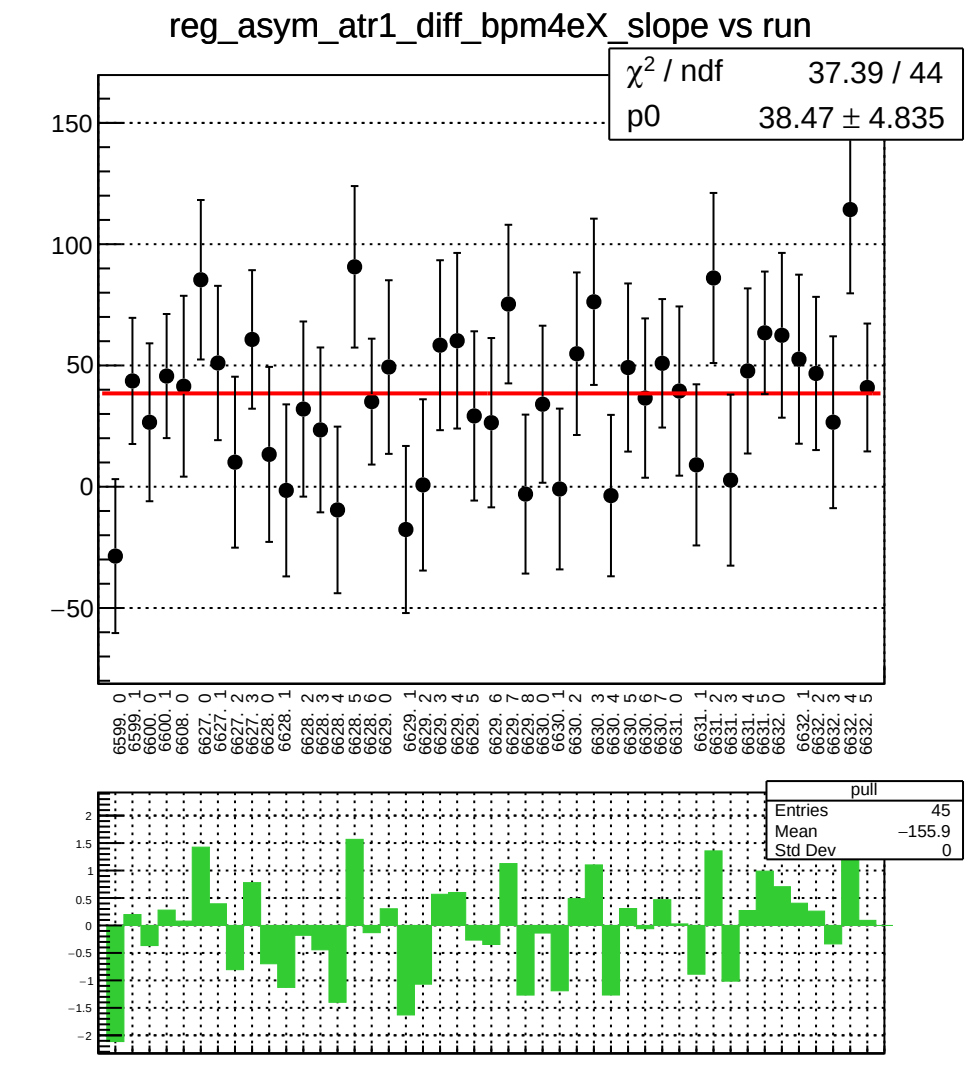

pull1D
Entries 45
Mean −0.04289
Std Dev 1.61

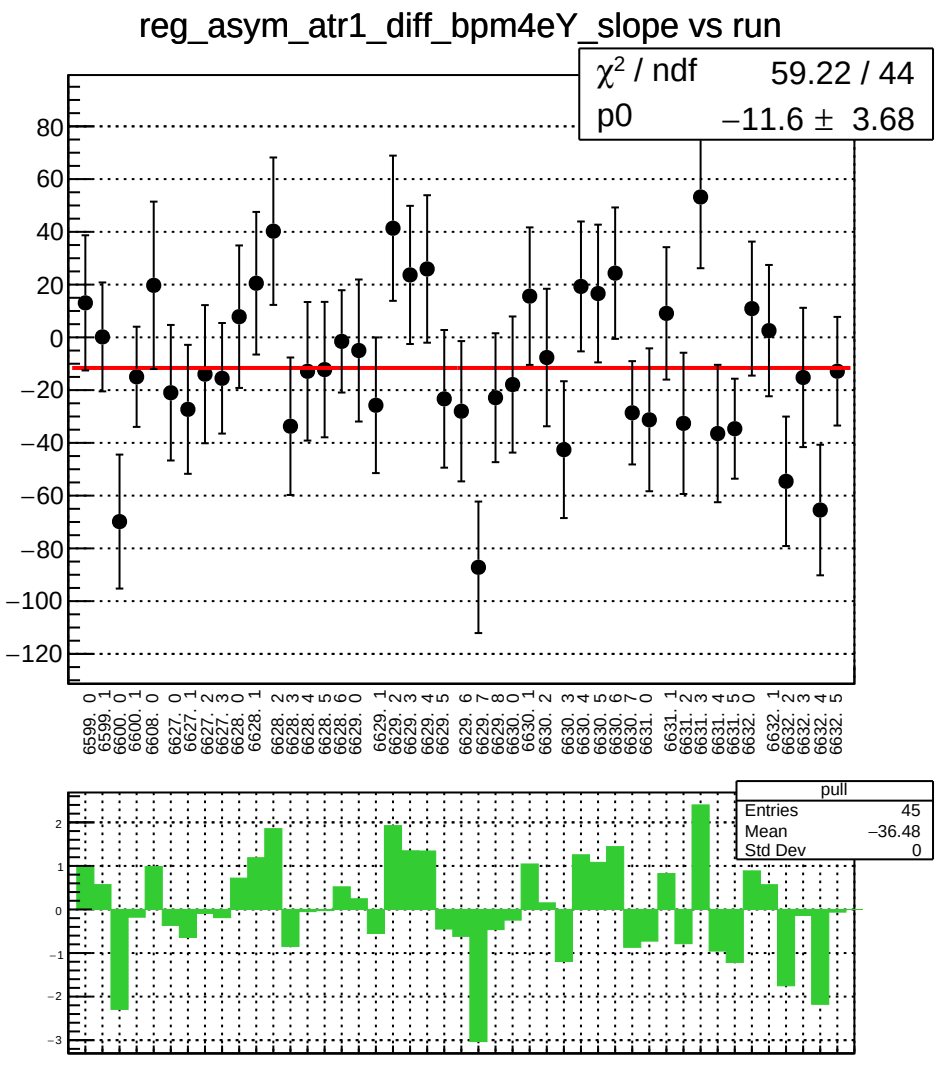

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 36.34 / 44
p0 −90.51 ± 4.689
0
−50
−100
−150
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −165.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

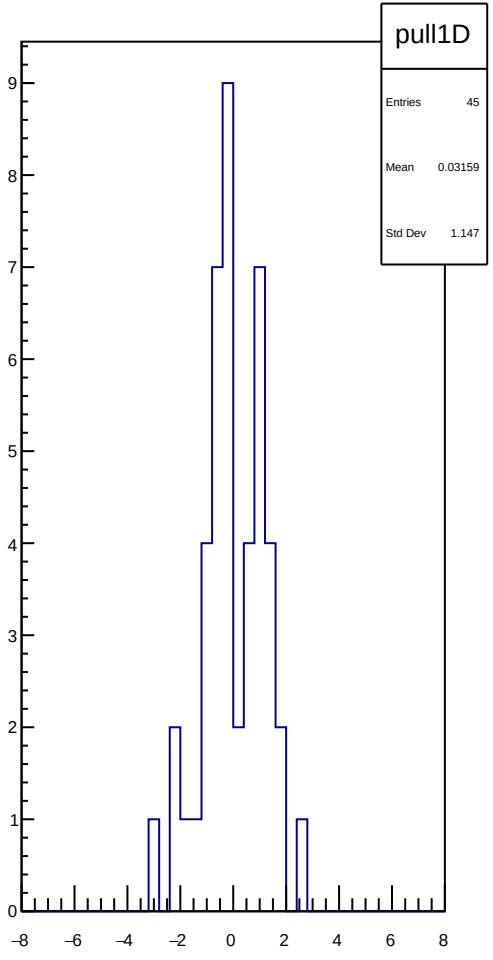

pull1D
Entries 45
Mean 0.01403
Std Dev 0.8985
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

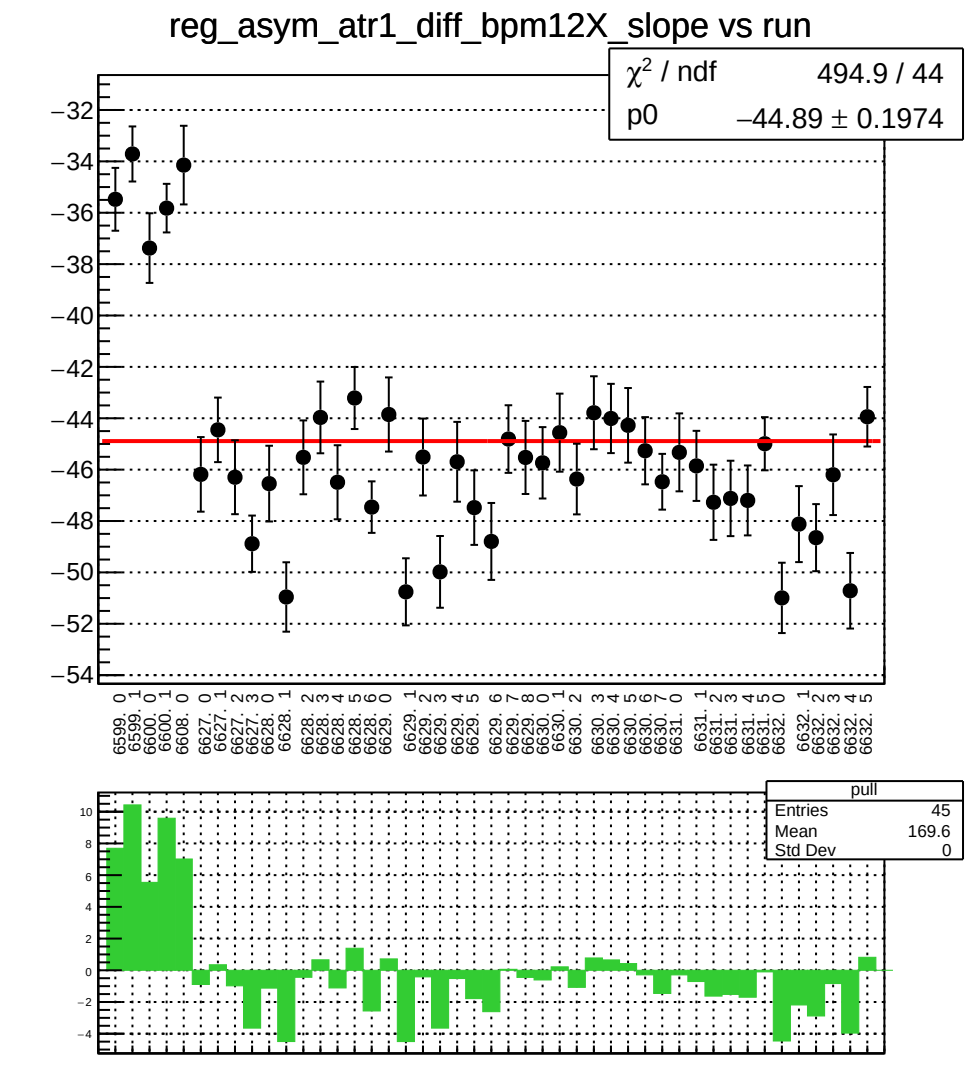

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 57.71 / 44
p0 19.07 ± 3.089
pull
Entries 45
Mean −49.01
Std Dev 0

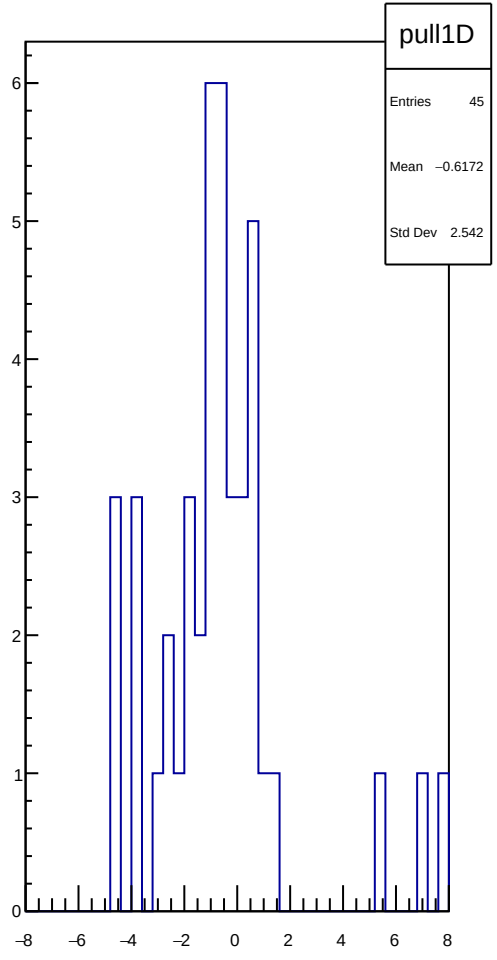

pull1D
Entries 45
Mean −0.02456
Std Dev 1.132

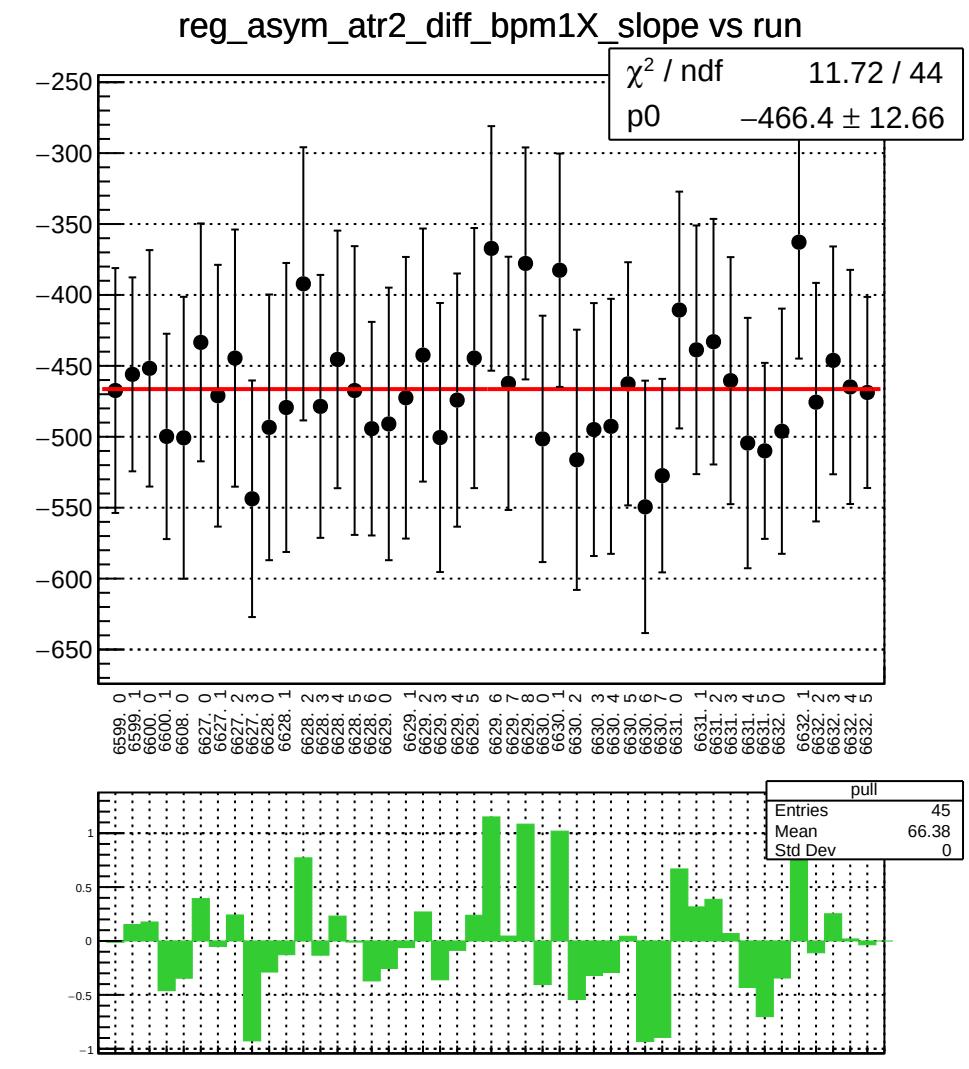

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 37.39 / 44
p0 38.47 ± 4.835
150
100
50
0
−50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −155.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01623
Std Dev 0.9114
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

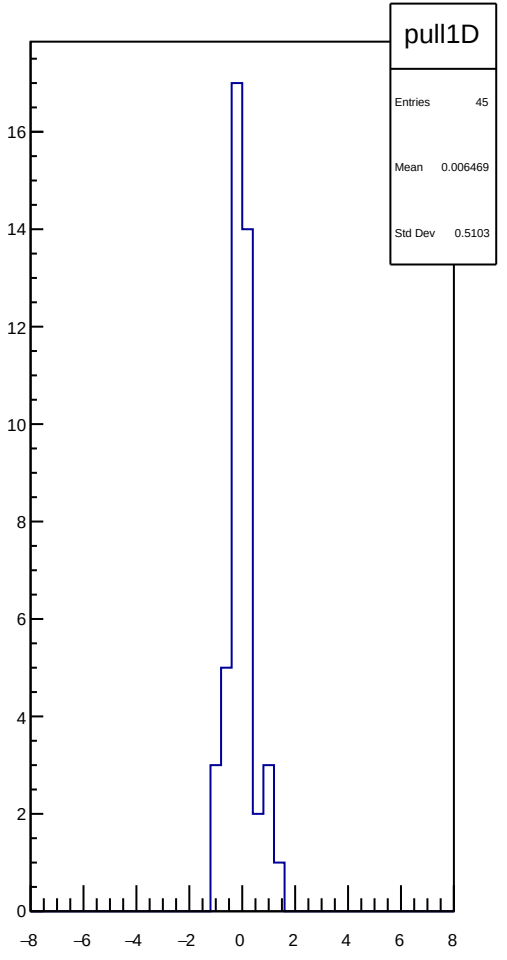

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 59.22 / 44
p0 −11.6 ± 3.68
pull
Entries 45
Mean −36.48
Std Dev 0

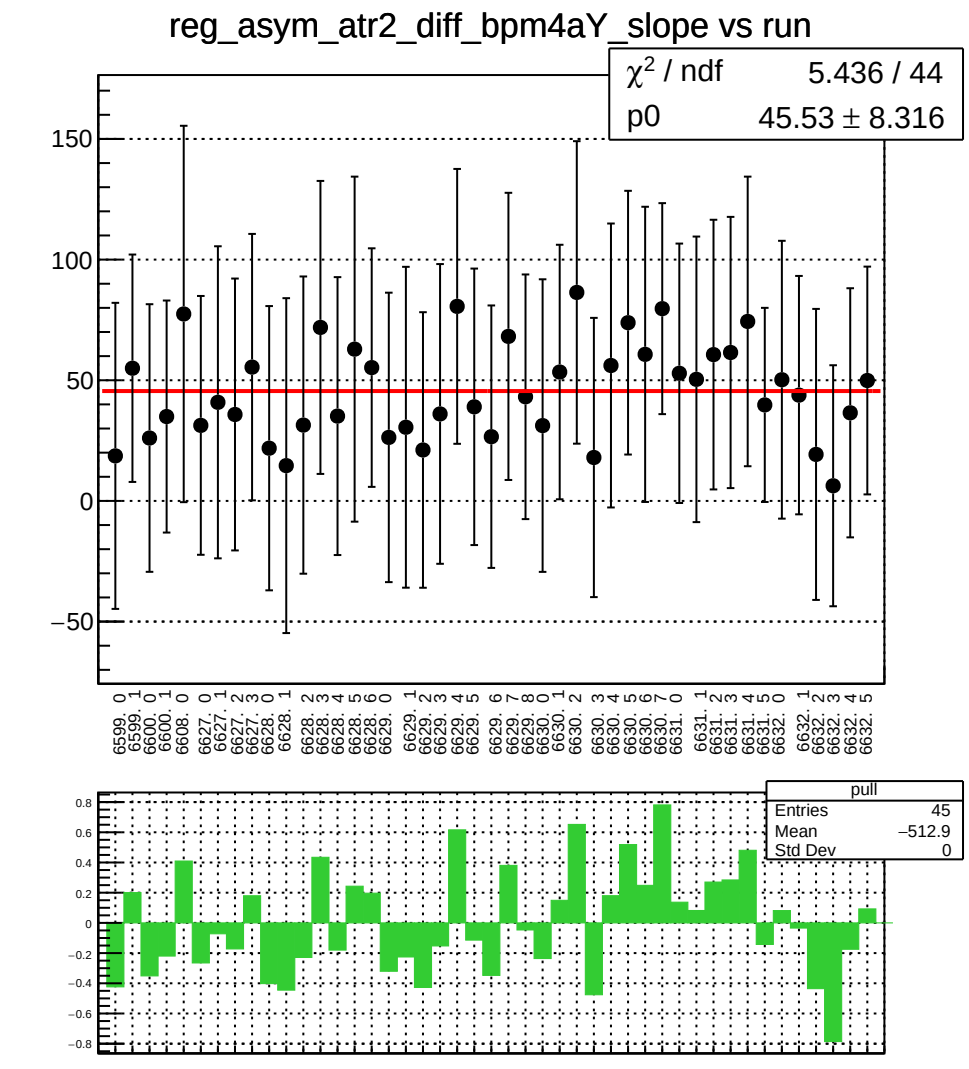

pull1D
Entries 45
Mean 0.03159
Std Dev 1.147

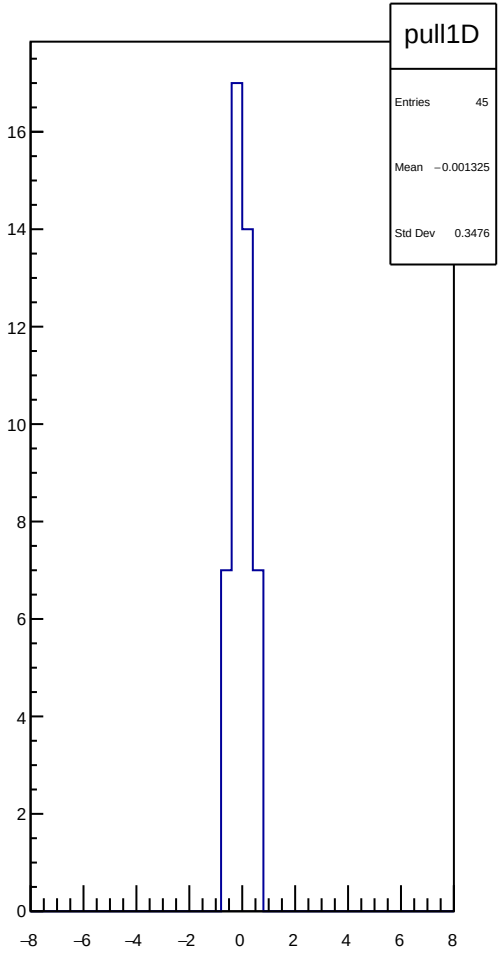

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 494.9 / 44
p0 −44.89 ± 0.1974
pull
Entries 45
Mean 169.6
Std Dev 0

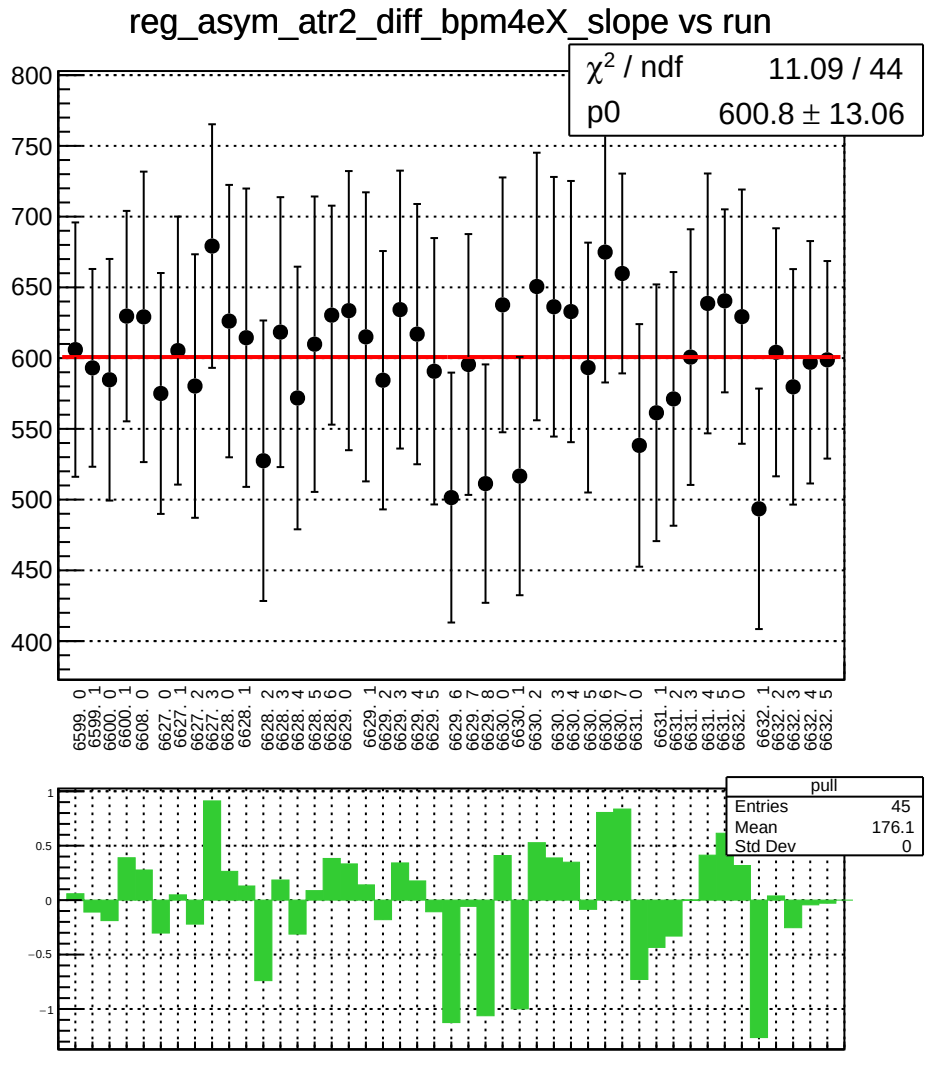

pull1D
Entries 45
Mean −0.6172
Std Dev 2.542

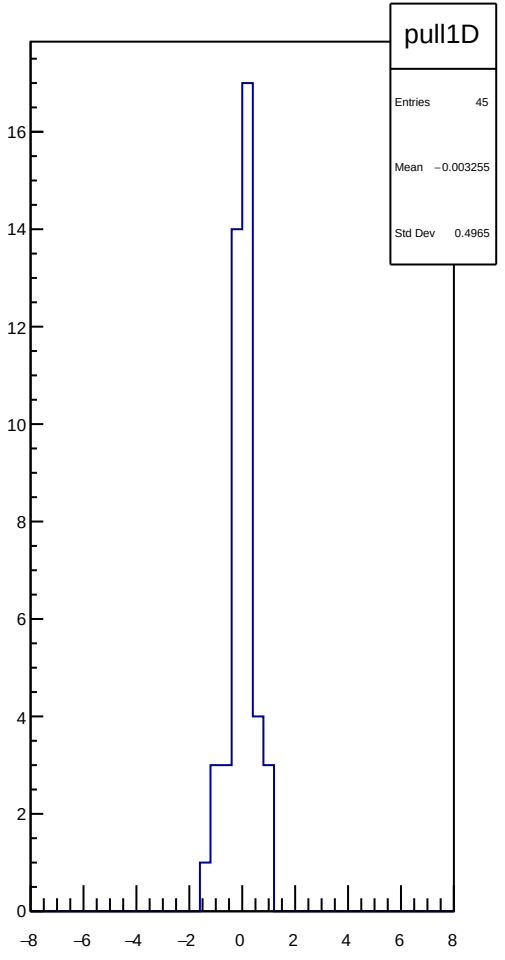

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 11.72 / 44
p0 −466.4 ± 12.66
−250
−300
−350
−400
−450
−500
−550
−600
−650
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 66.38
Std Dev 0
1
0.5
0
−0.5
−1

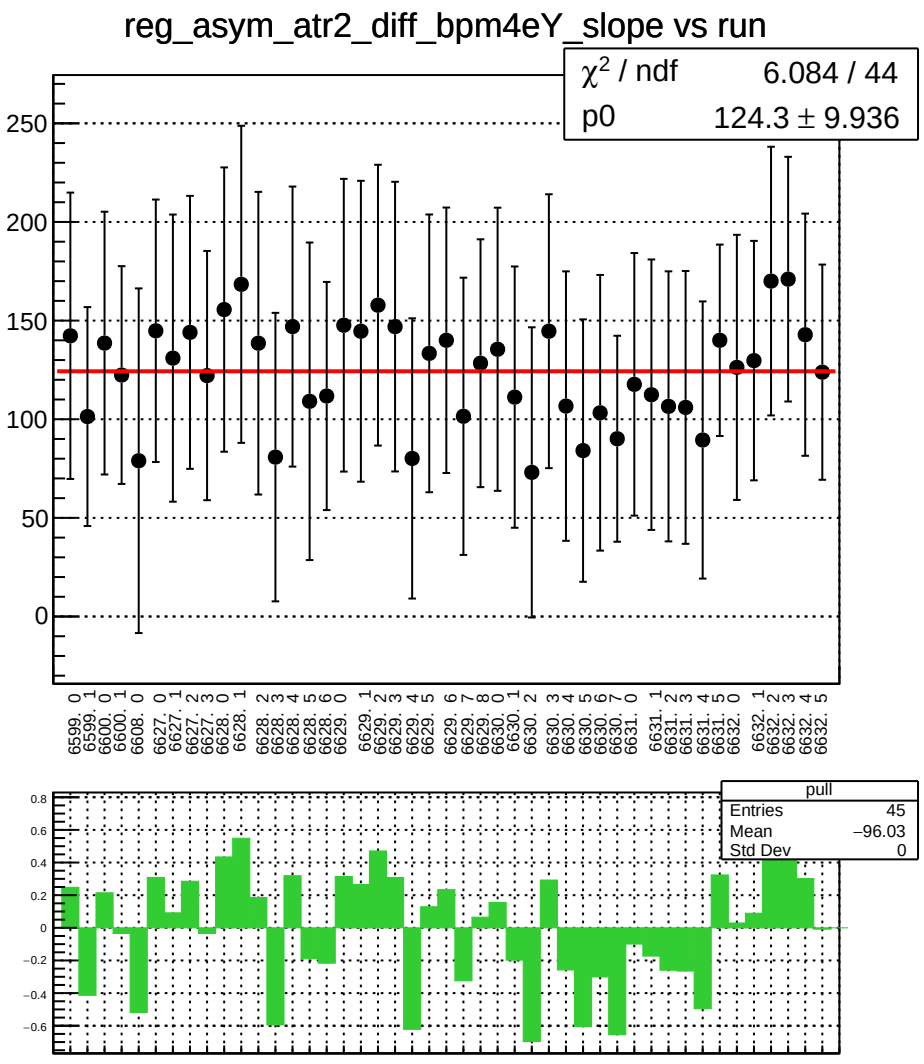

pull1D
Entries 45
Mean 0.006469
Std Dev 0.5103
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

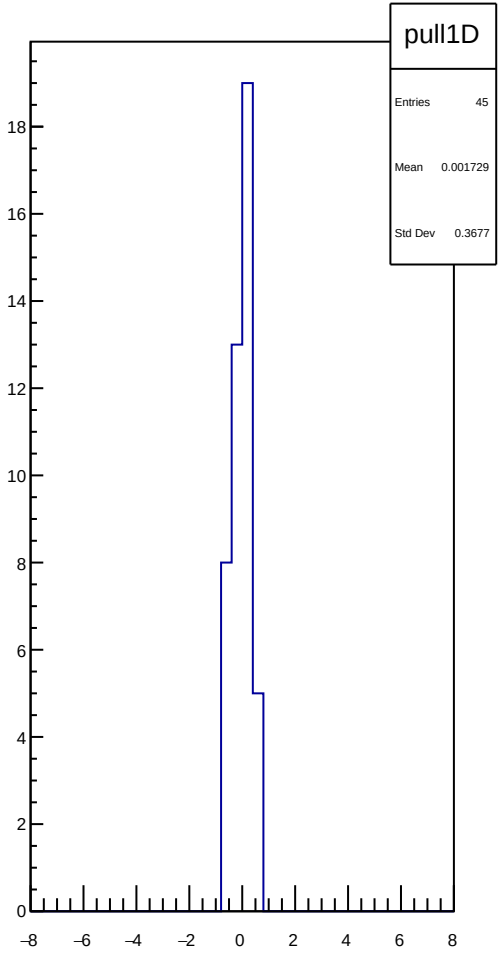

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 5.436 / 44
p0 45.53 ± 8.316
150
100
50
0
−50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −512.9
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

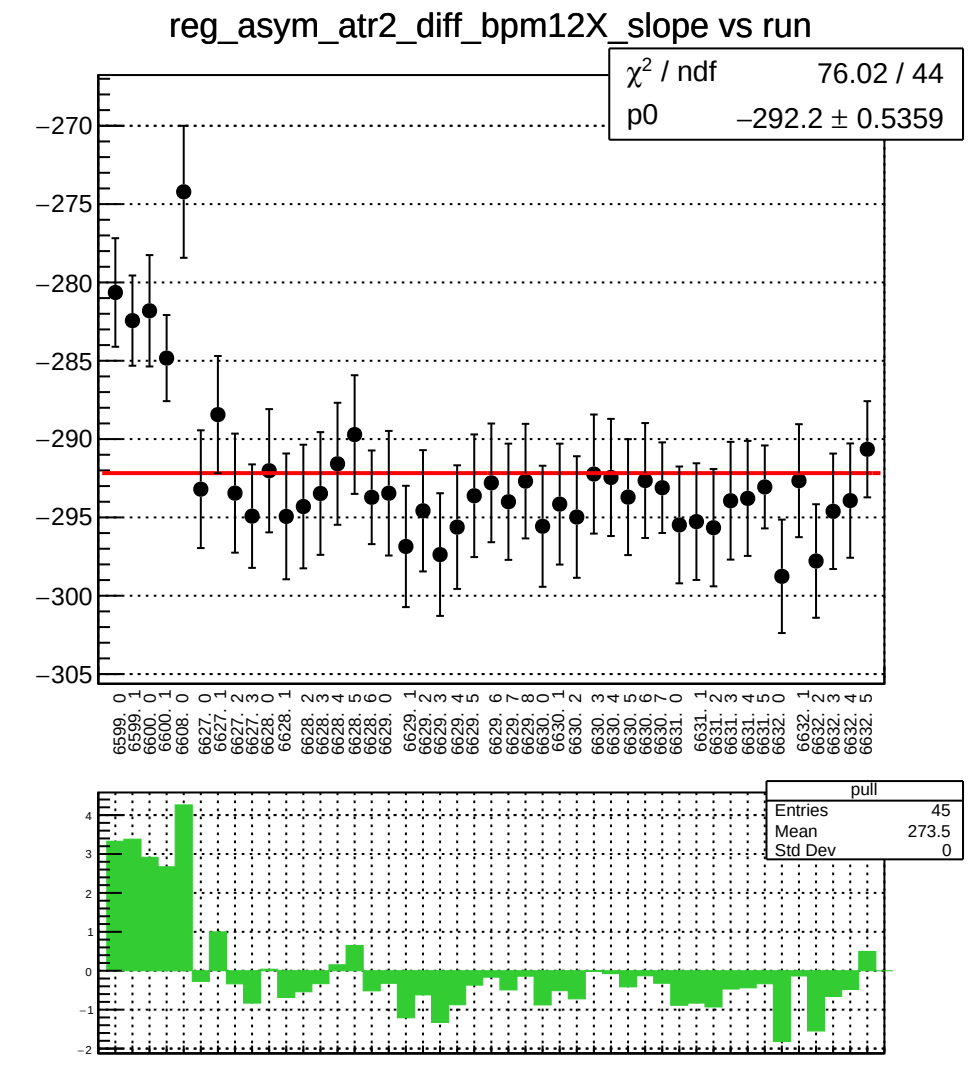

pull1D
Entries 45
Mean −0.001325
Std Dev 0.3476
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

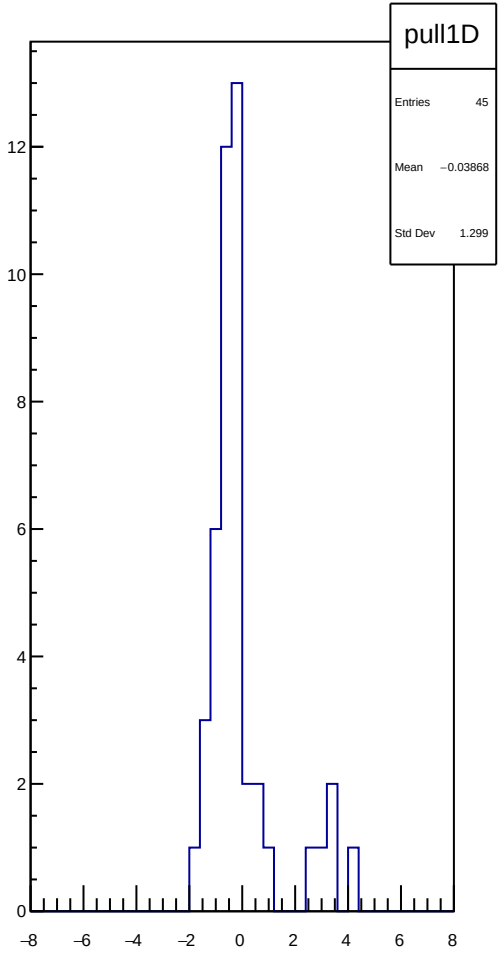

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 11.09 / 44
p0 600.8 ± 13.06
pull
Entries 45
Mean 176.1
Std Dev 0

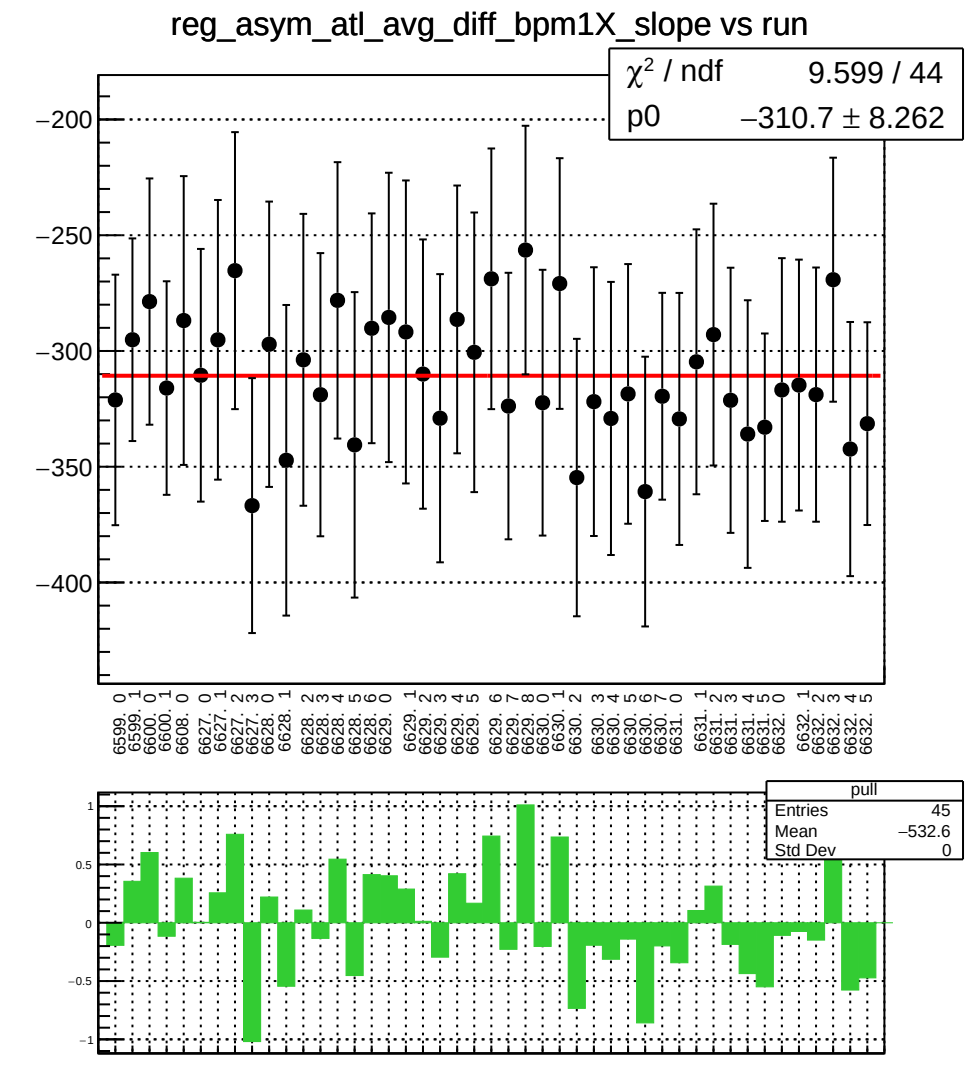

pull1D
Entries 45
Mean −0.003255
Std Dev 0.4965

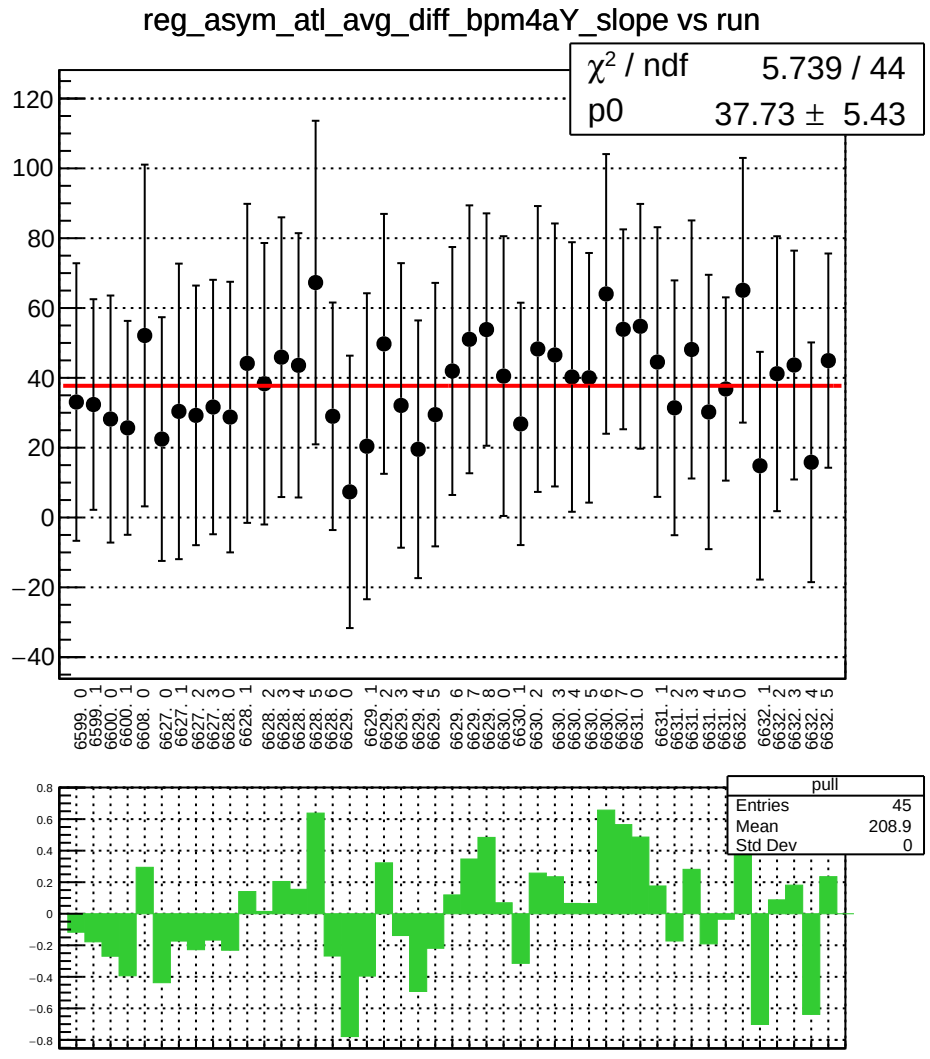

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 6.084 / 44
p0 124.3 ± 9.936
250
200
150
100
50
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean –96.03
Std Dev 0
0.8
0.6
0.4
0.2
0
–0.2
–0.4
–0.6

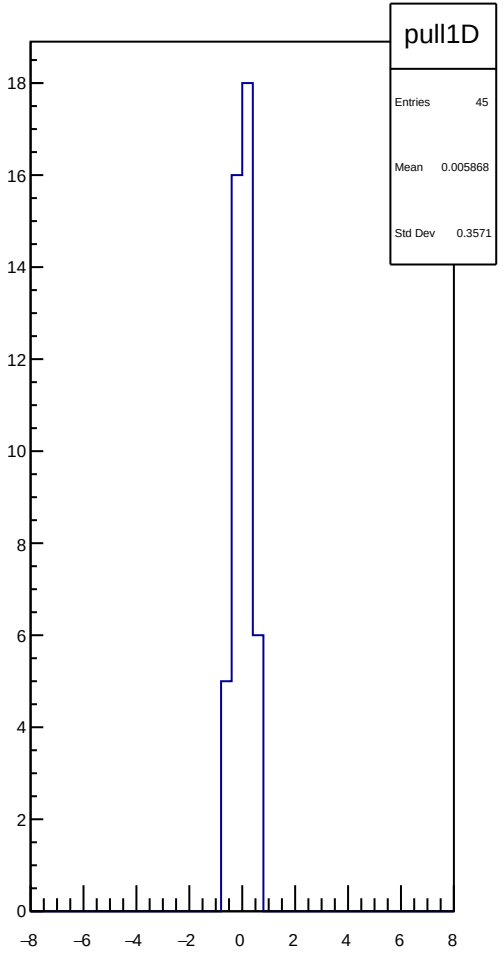

pull1D
Entries 45
Mean 0.001729
Std Dev 0.3677
18
16
14
12
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

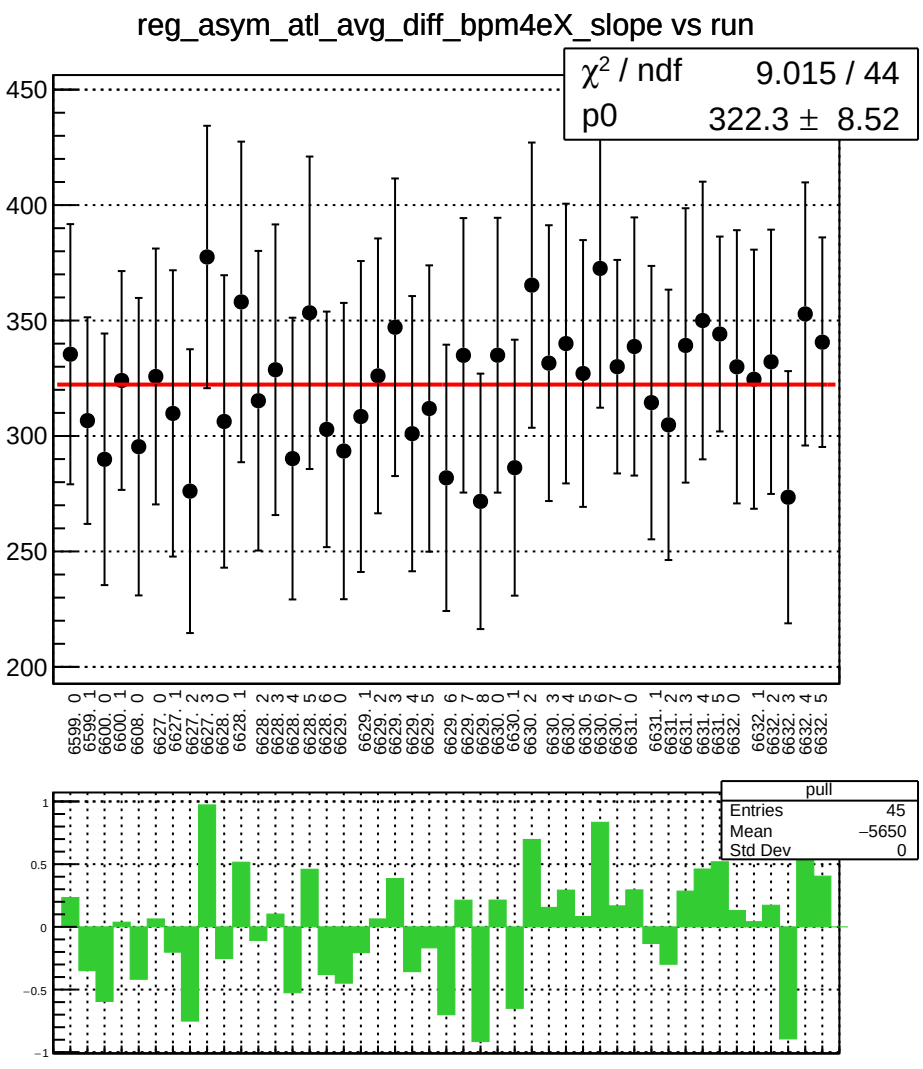

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 76.02 / 44
p0 −292.2 ± 0.5359
pull
Entries 45
Mean 273.5
Std Dev 0

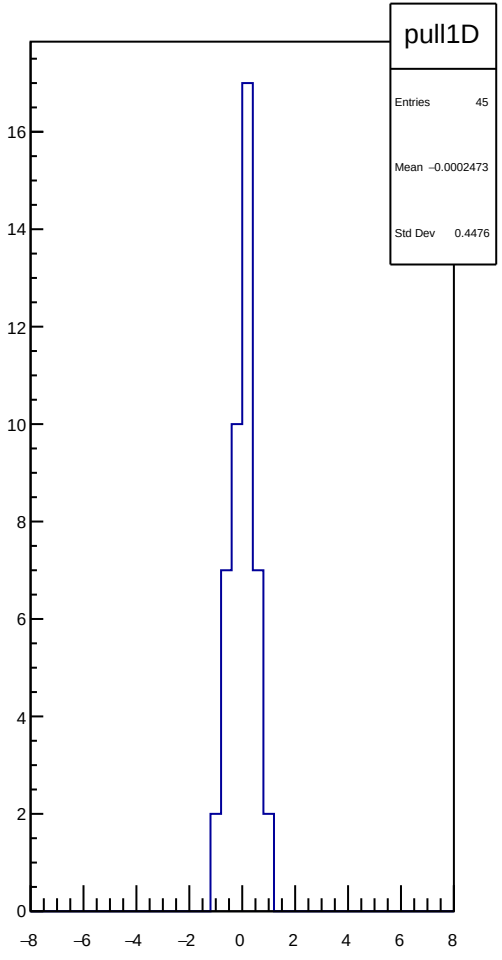

pull1D
Entries 45
Mean −0.03868
Std Dev 1.299

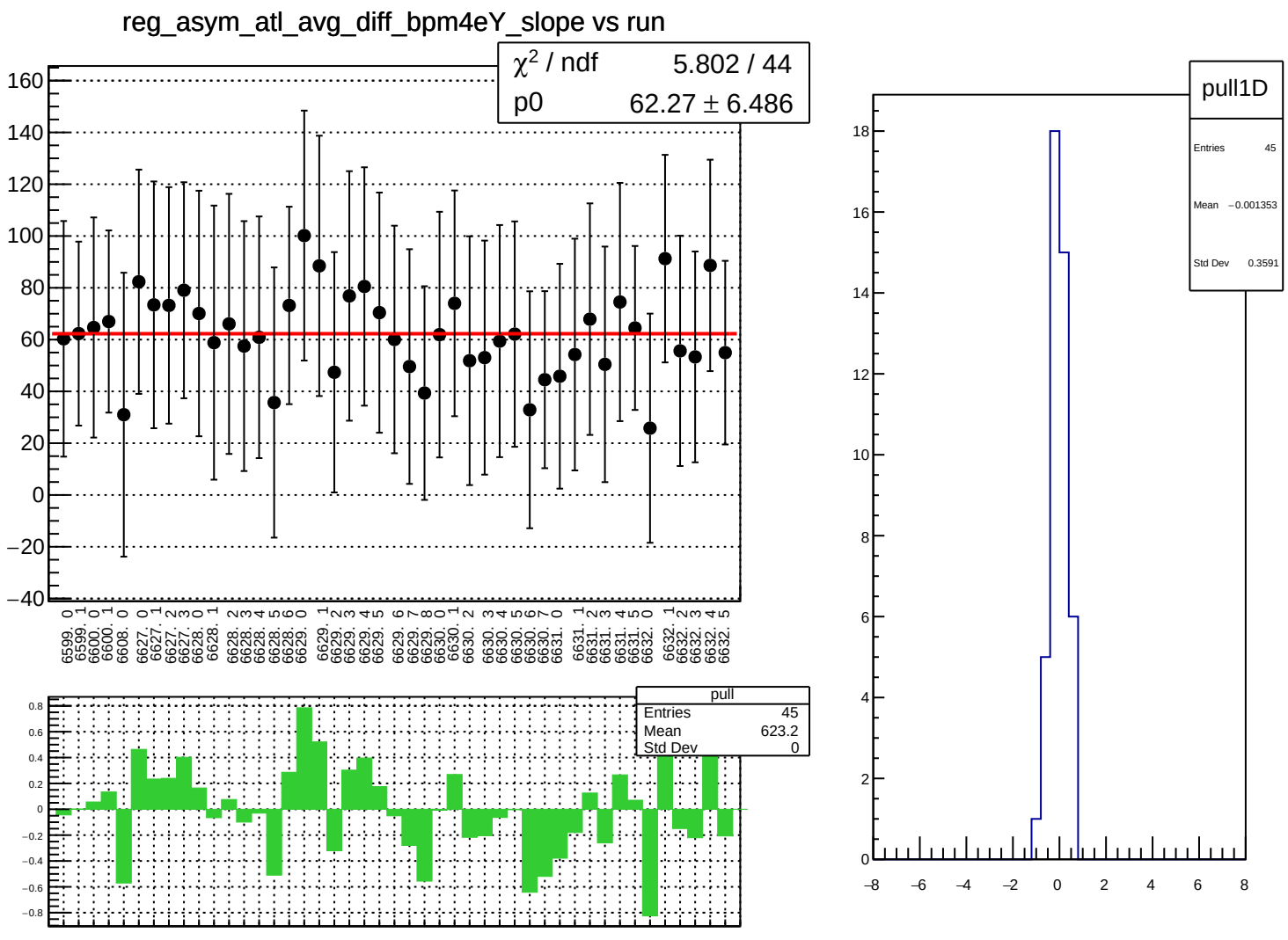

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 9.599 / 44
p0 −310.7 ± 8.262
−200
−250
−300
−350
−400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −532.6
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean 0.002741
Std Dev 0.4619
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

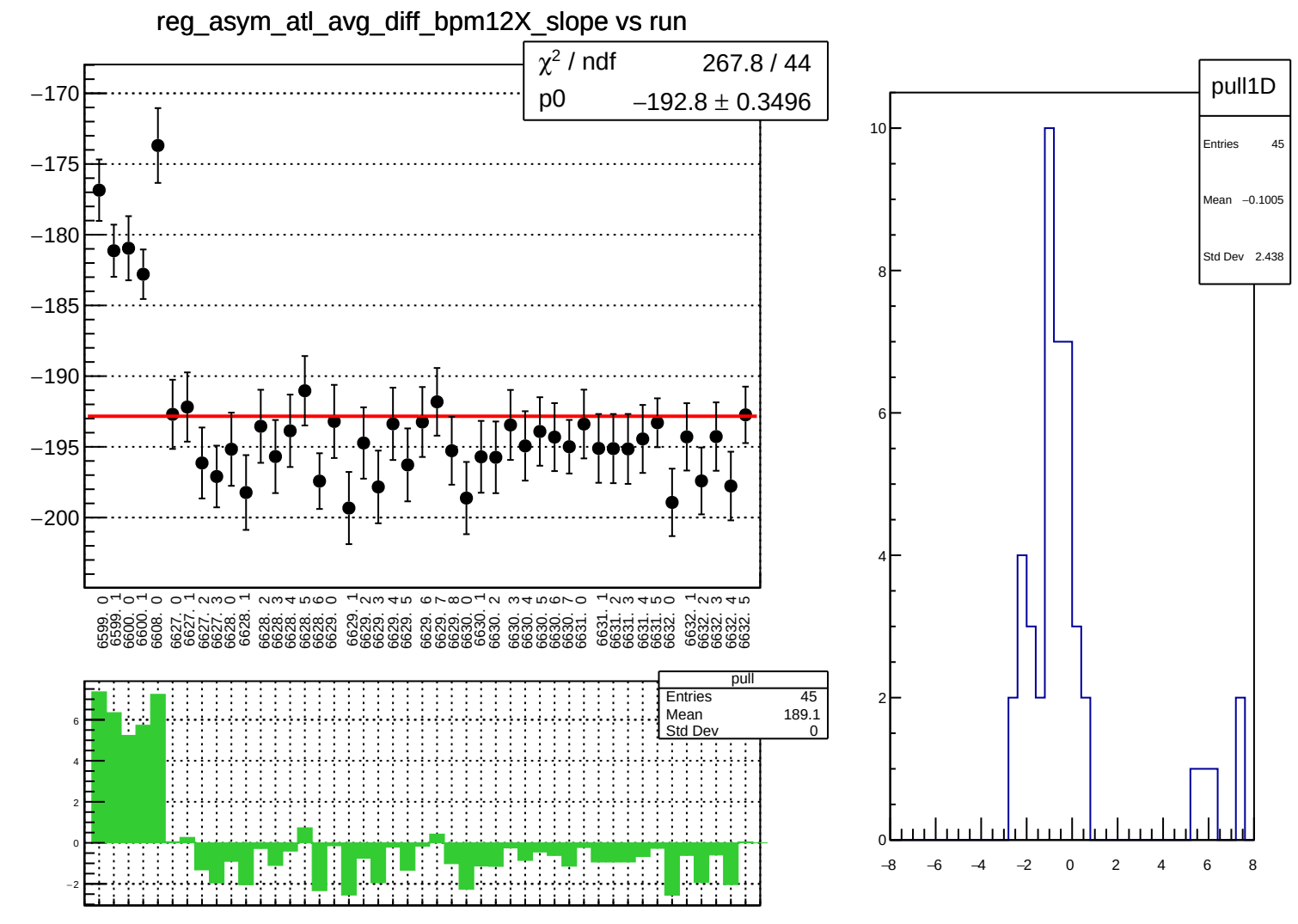

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.739 / 44
p0 37.73 ± 5.43
pull
Entries 45
Mean 208.9
Std Dev 0

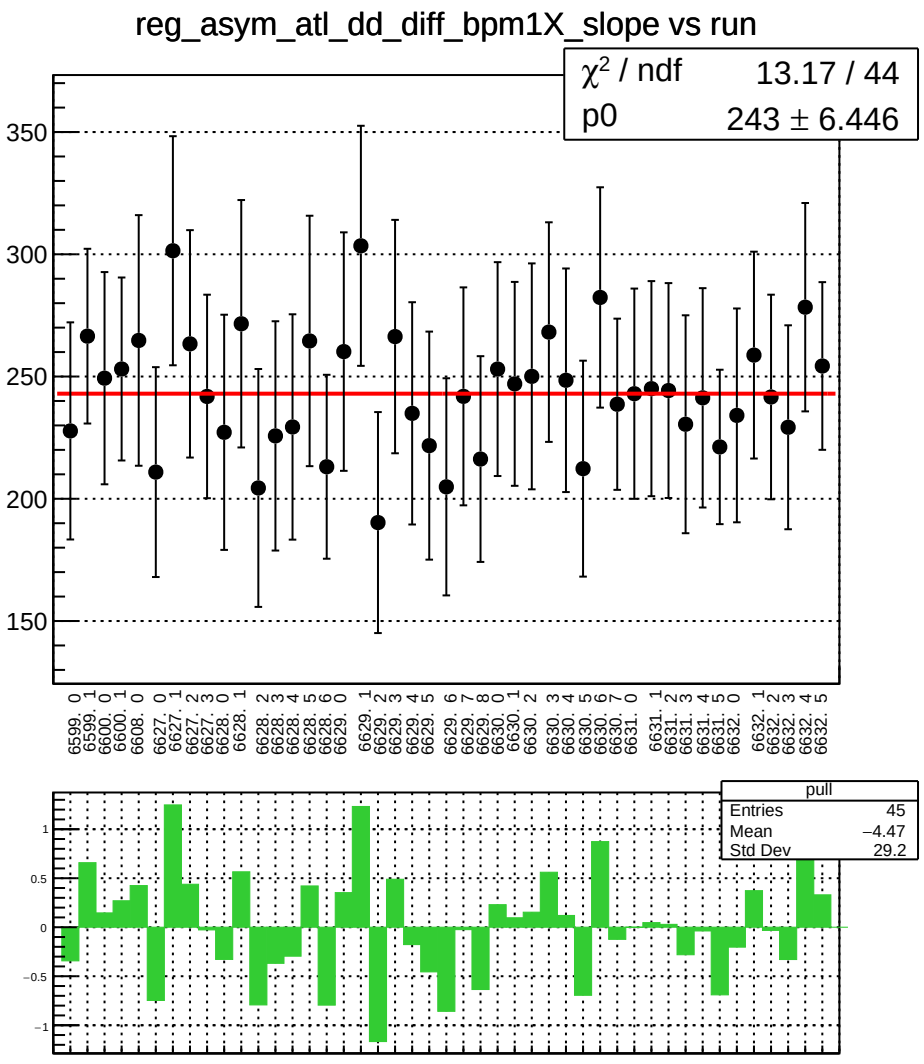

pull1D
Entries 45
Mean 0.005868
Std Dev 0.3571

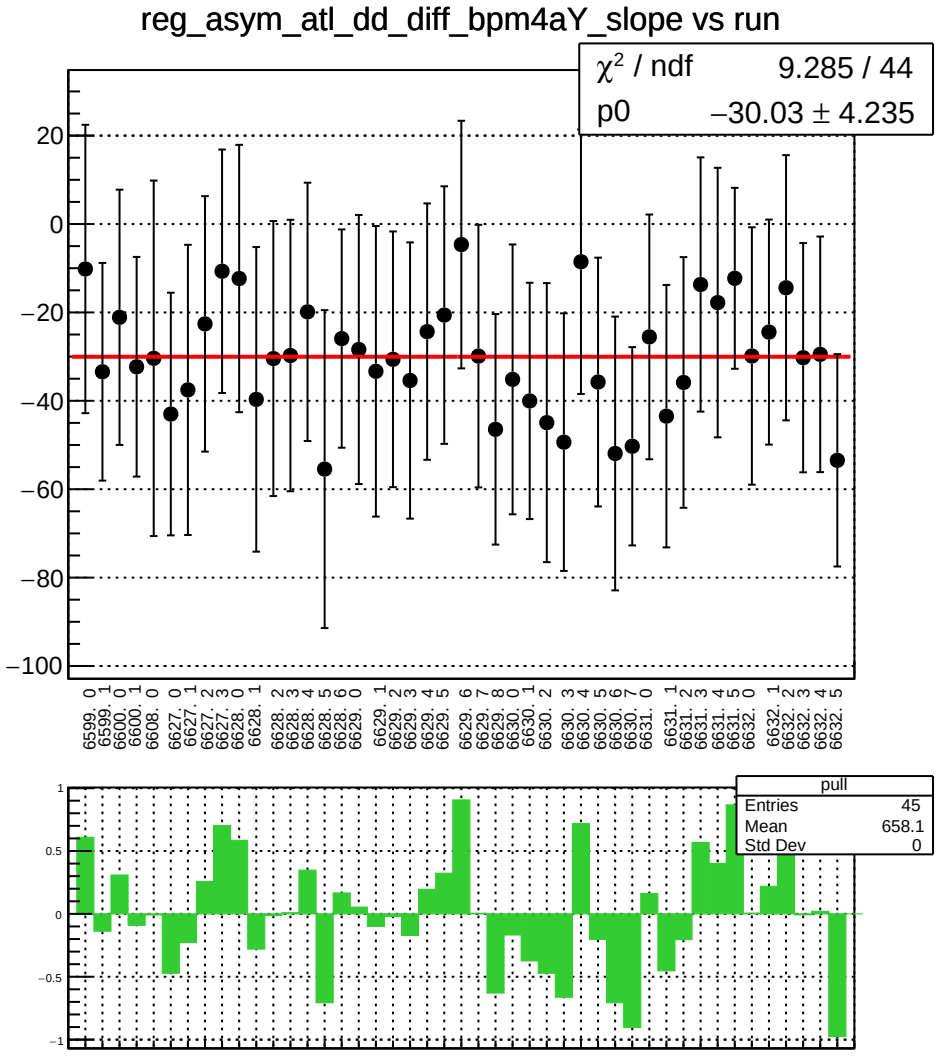

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.015 / 44
p0 322.3 ± 8.52
pull
Entries 45
Mean −5650
Std Dev 0

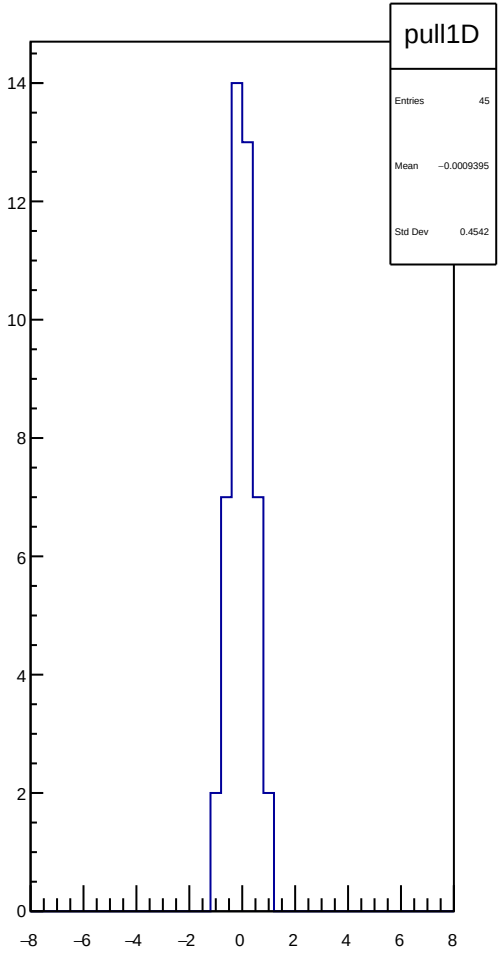

pull1D
Entries 45
Mean −0.0002473
Std Dev 0.4476

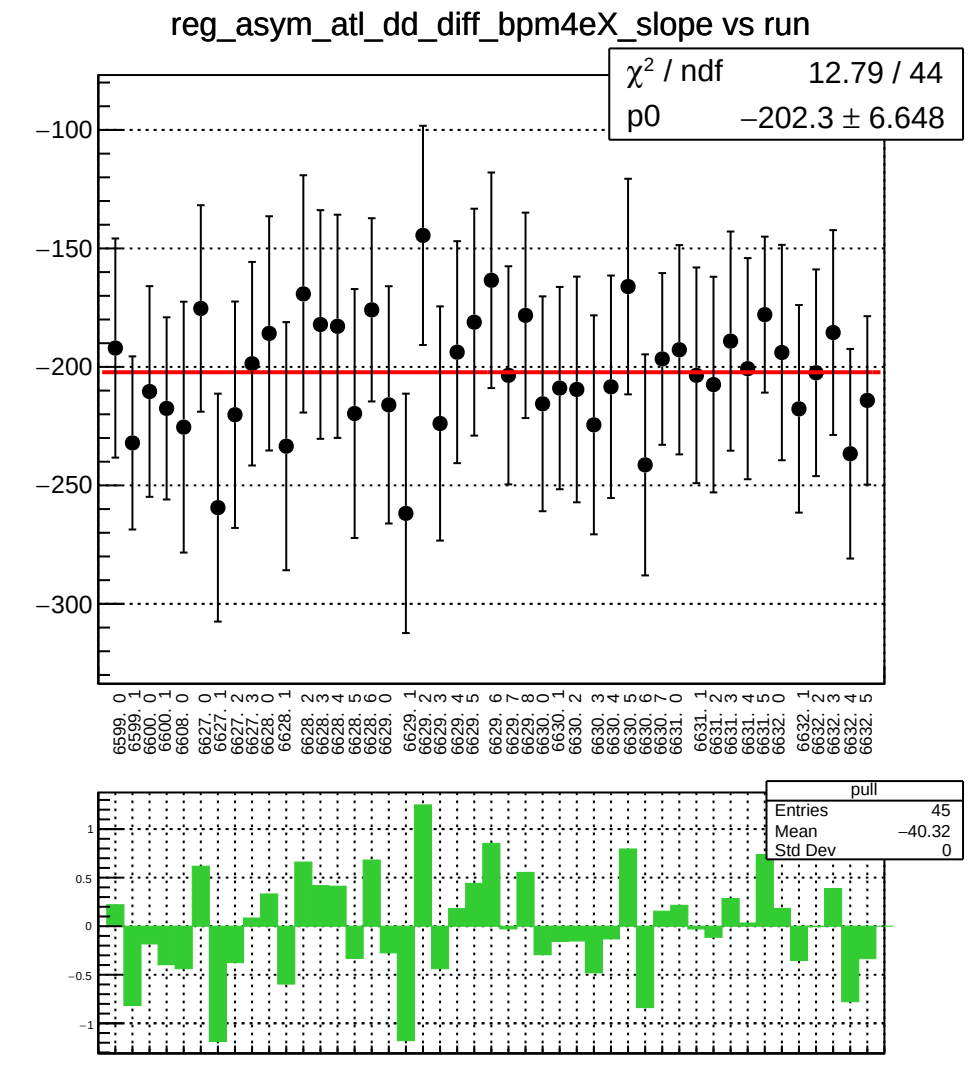

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.802 / 44
p0 62.27 ± 6.486
pull
Entries 45
Mean 623.2
Std Dev 0
pull1D
Entries 45
Mean −0.001353
Std Dev 0.3591

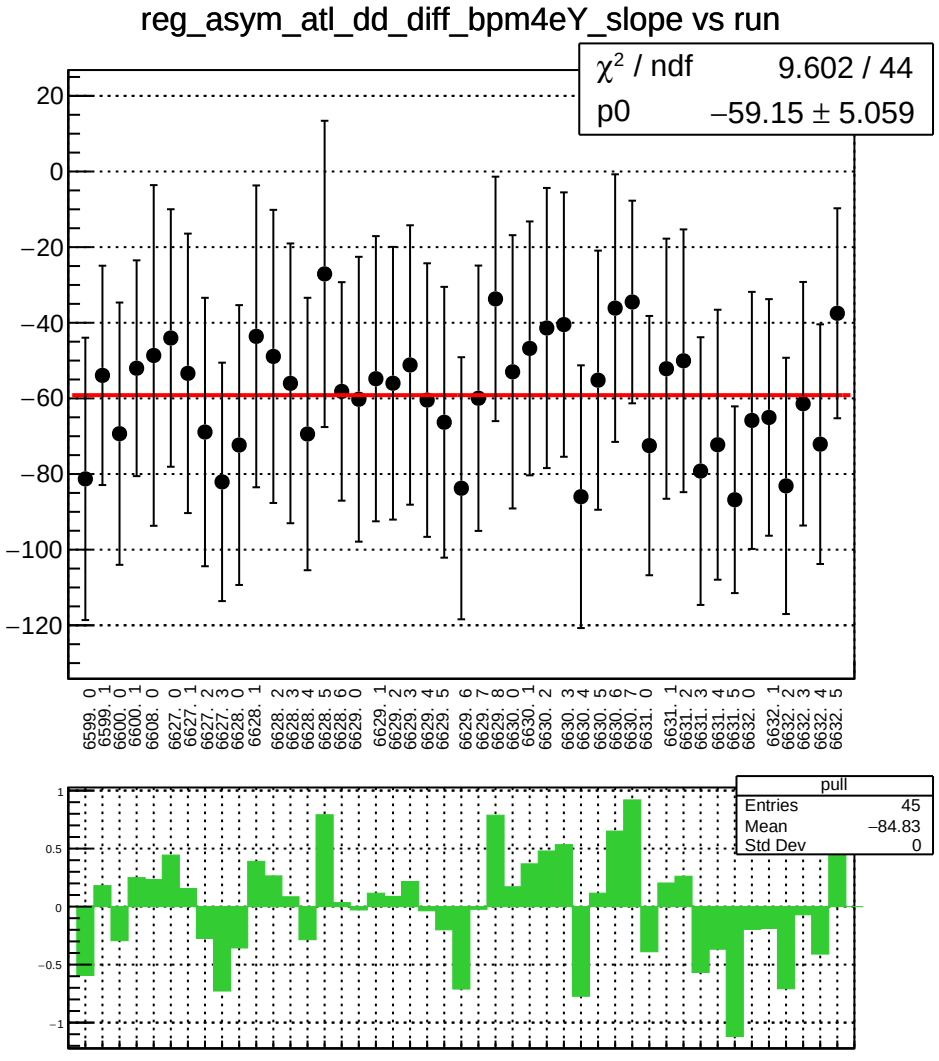

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 267.8 / 44
p0 −192.8 ± 0.3496
−170
−175
−180
−185
−190
−195
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 189.1
Std Dev 0
6
4
2
0
−2
pull1D
Entries 45
Mean −0.1005
Std Dev 2.438
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

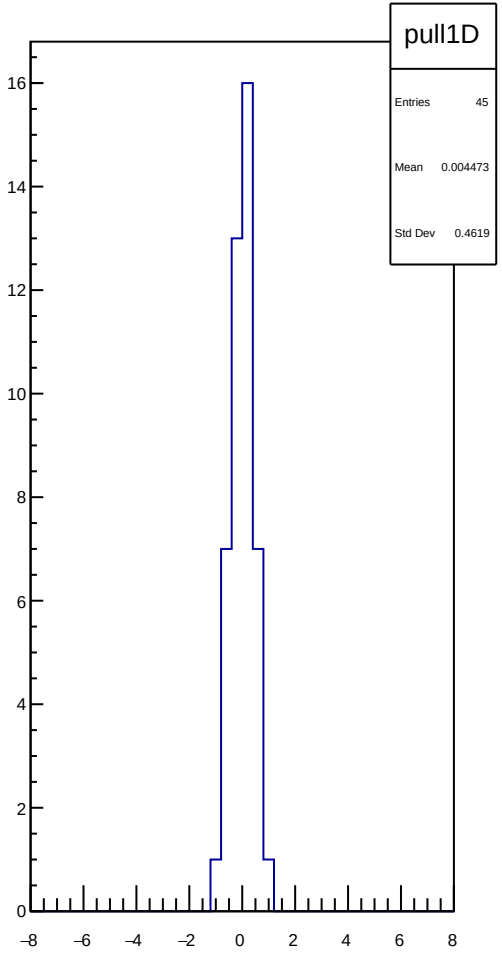

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 13.17 / 44
p0 243 ± 6.446
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −4.47
Std Dev 29.2
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean 0.0107
Std Dev 0.5408
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

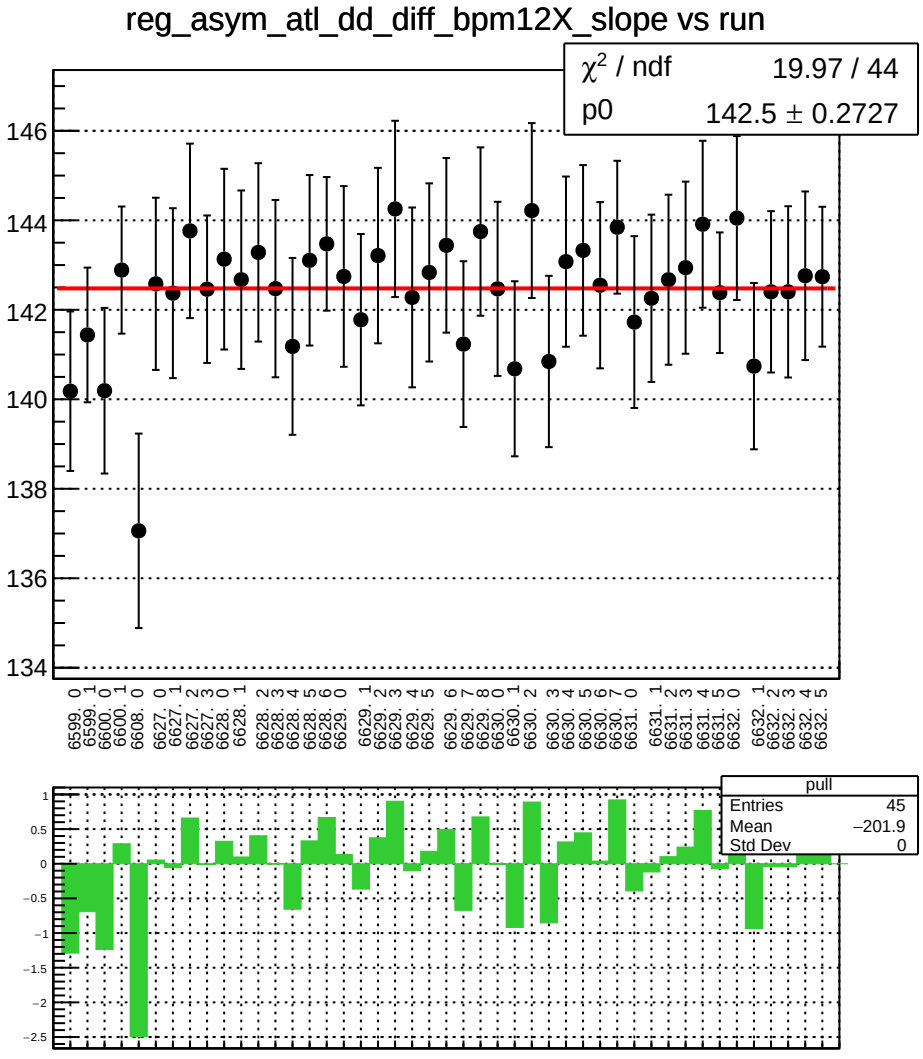

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.285 / 44
p0 −30.03 ± 4.235
pull
Entries 45
Mean 658.1
Std Dev 0

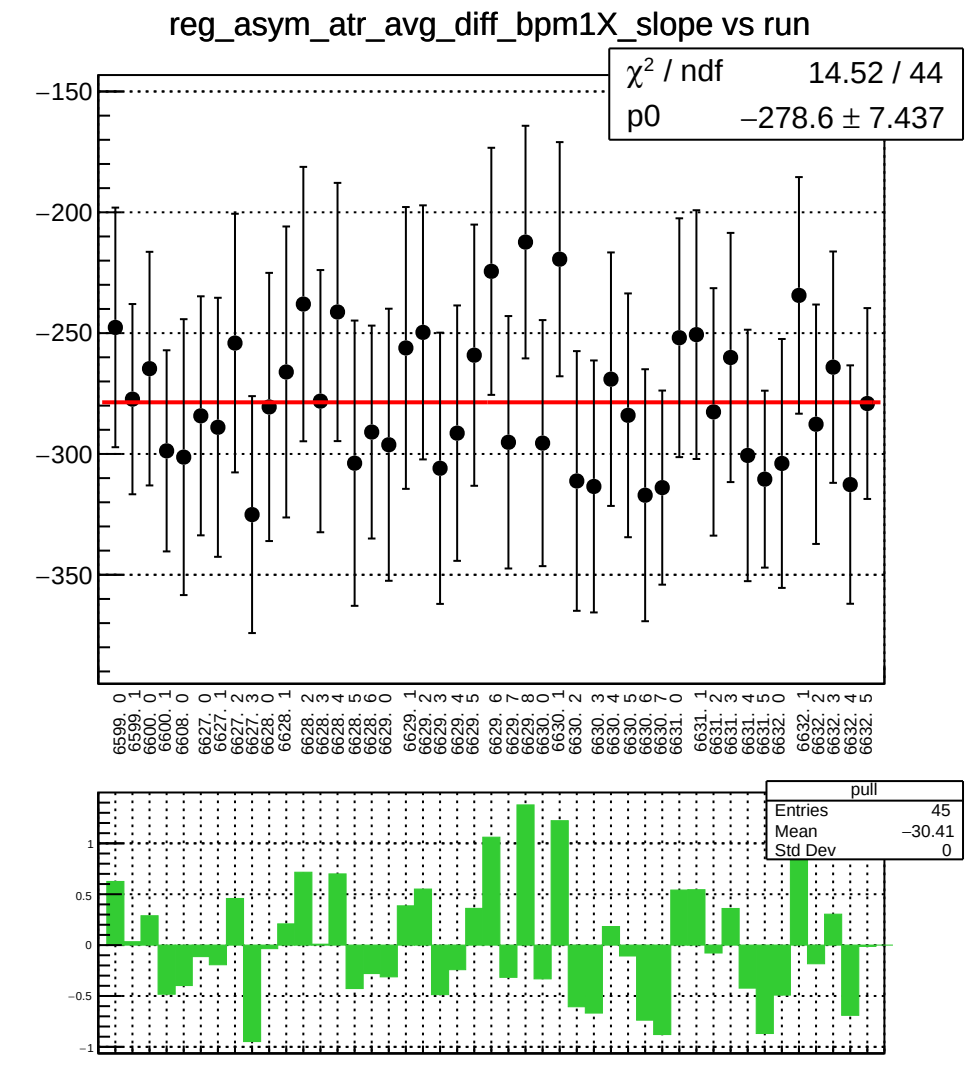

pull1D
Entries 45
Mean −0.0009395
Std Dev 0.4542

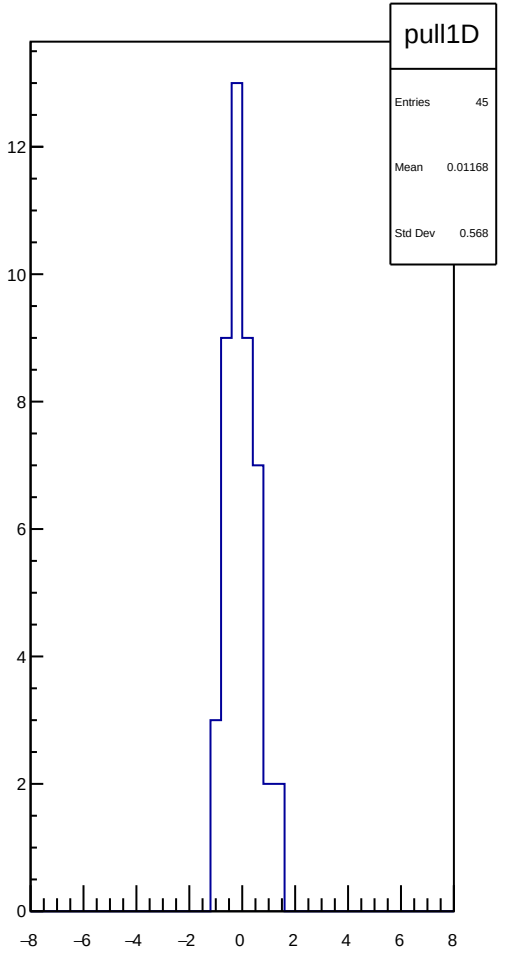

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.79 / 44
p0 −202.3 ± 6.648
−100
−150
−200
−250
−300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −40.32
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.009158
Std Dev 0.533
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

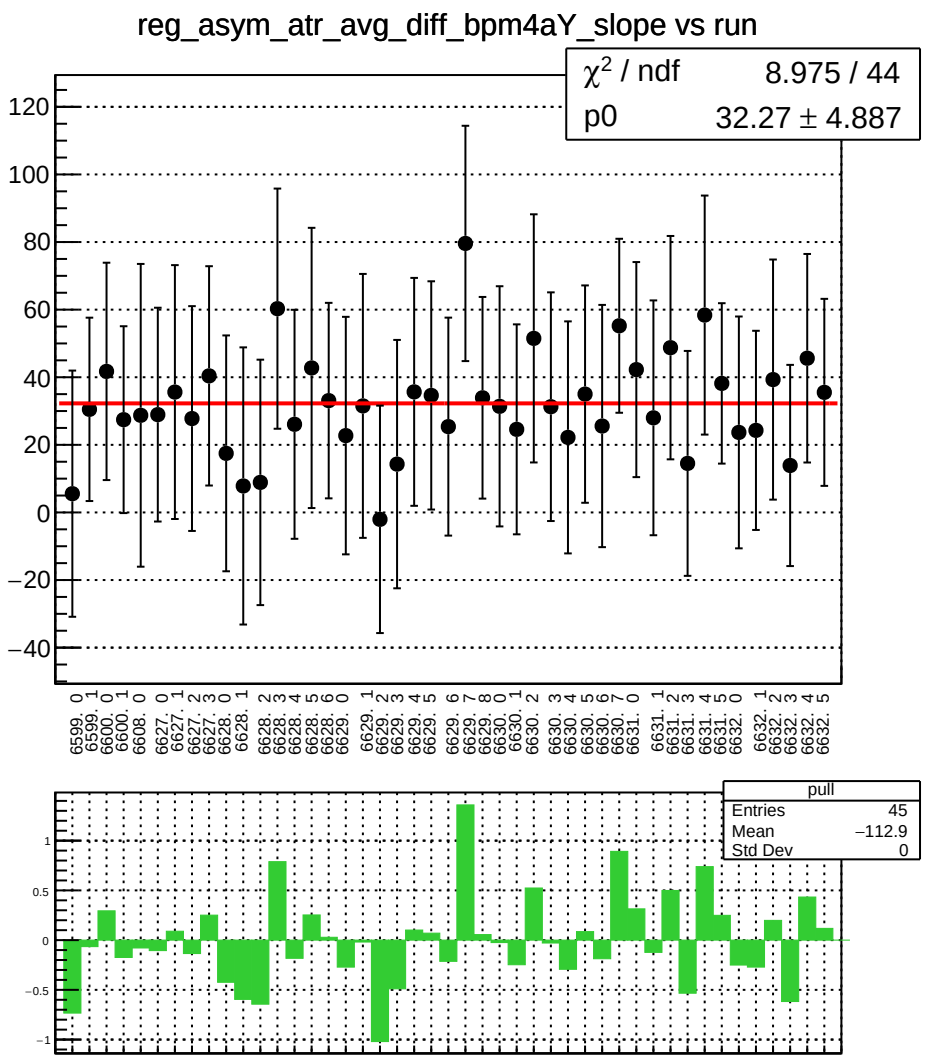

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.602 / 44
p0 −59.15 ± 5.059
20
0
−20
−40
−60
−80
−100
−120
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −84.83
Std Dev 0
1
0.5
0
−0.5
−1

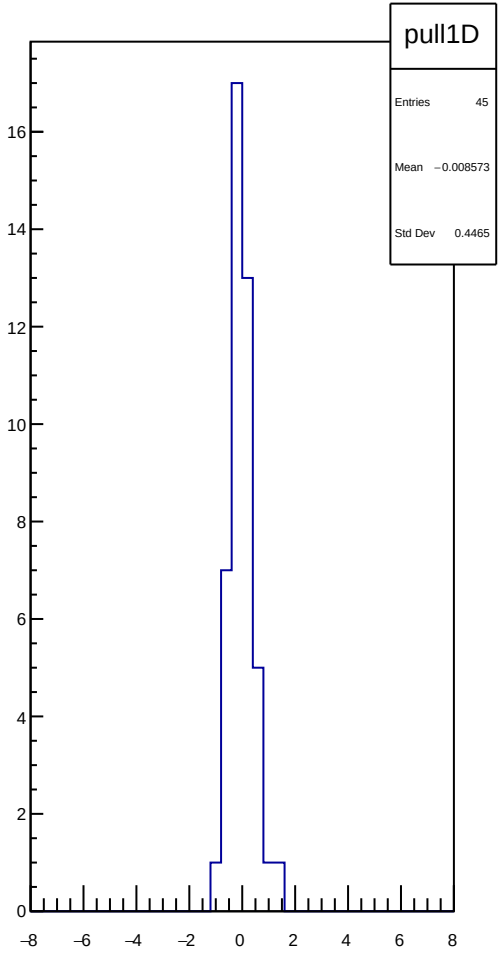

pull1D
Entries 45
Mean 0.004473
Std Dev 0.4619
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

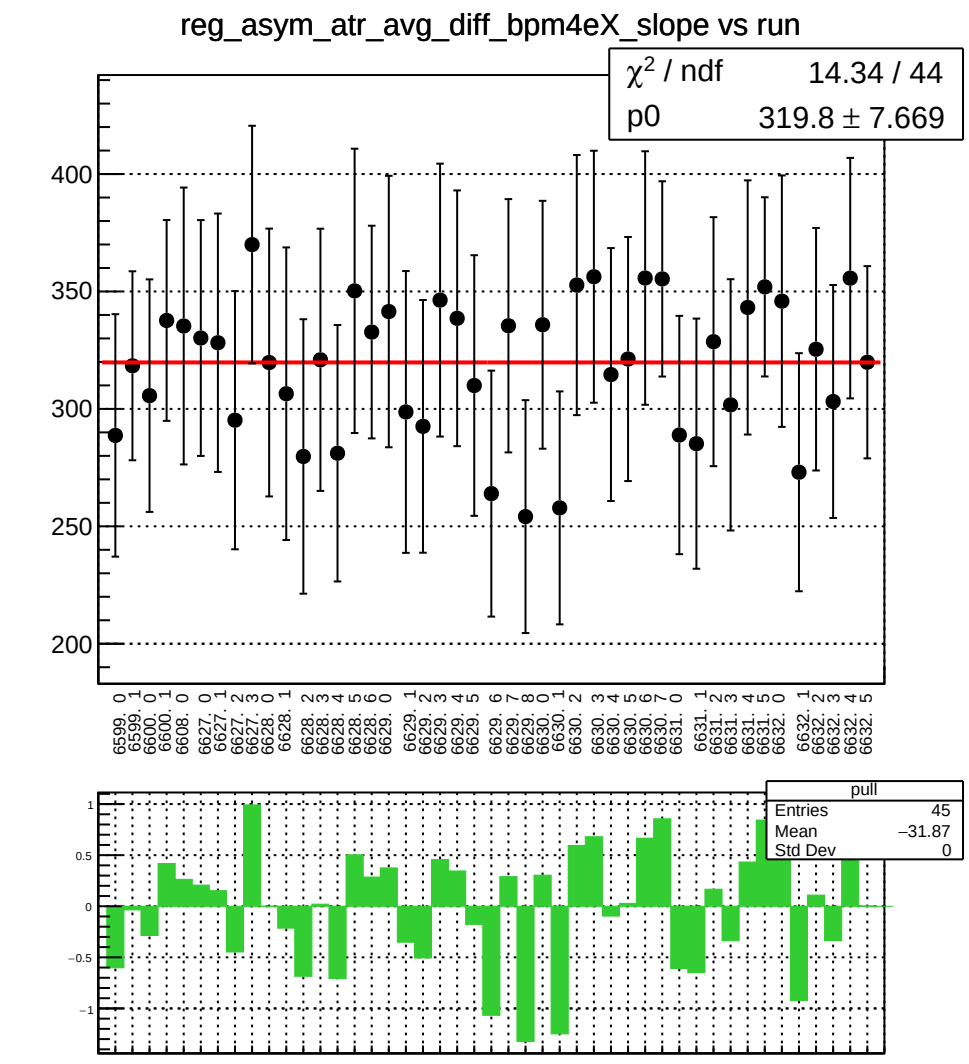

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 19.97 / 44
p0 142.5 ± 0.2727
146
144
142
140
138
136
134
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −201.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.01058
Std Dev 0.6661
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

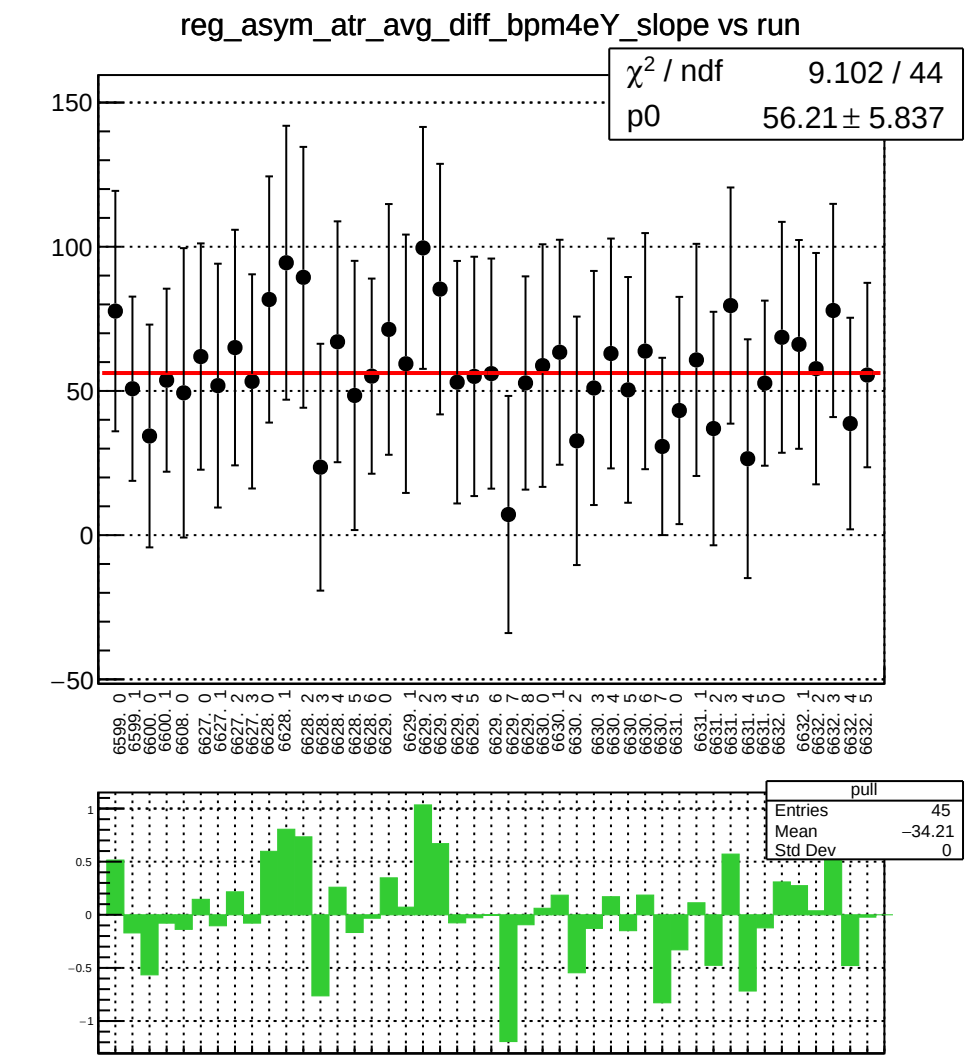

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 14.52 / 44
p0 −278.6 ± 7.437
−150
−200
−250
−300
−350
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −30.41
Std Dev 0
1
0.5
0
−0.5
−1

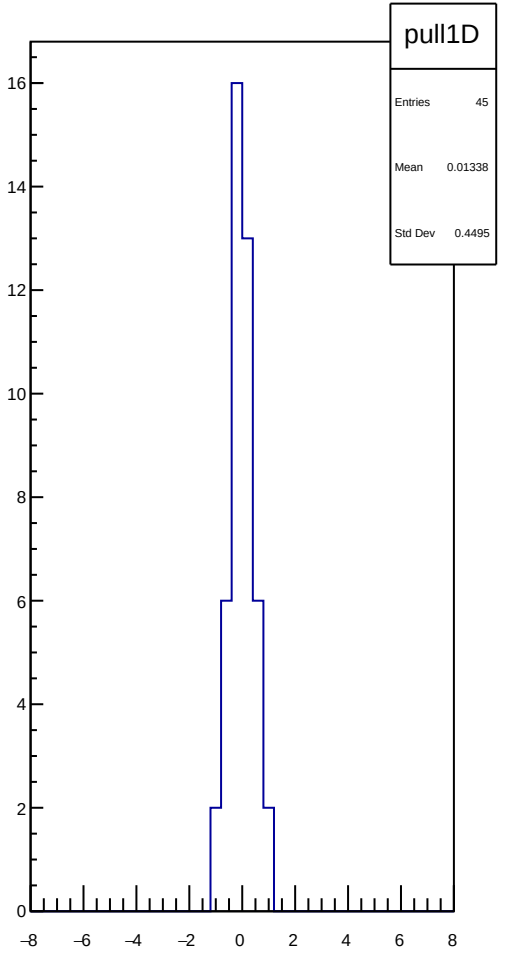

pull1D
Entries 45
Mean 0.01168
Std Dev 0.568
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

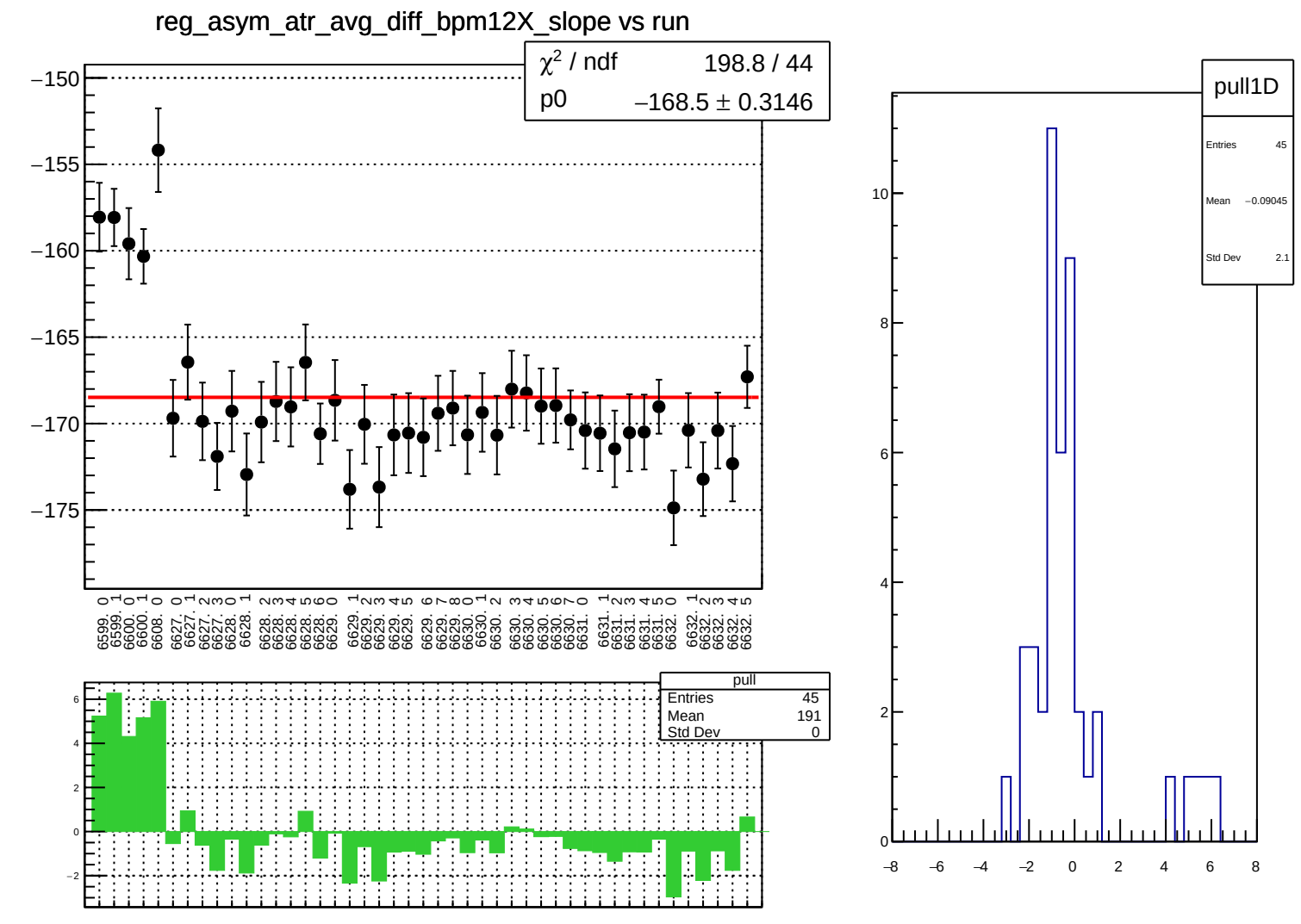

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.975 / 44
p0 32.27 ± 4.887
120
100
80
60
40
20
0
−20
−40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −112.9
Std Dev 0
1
0.5
0
−0.5
−1

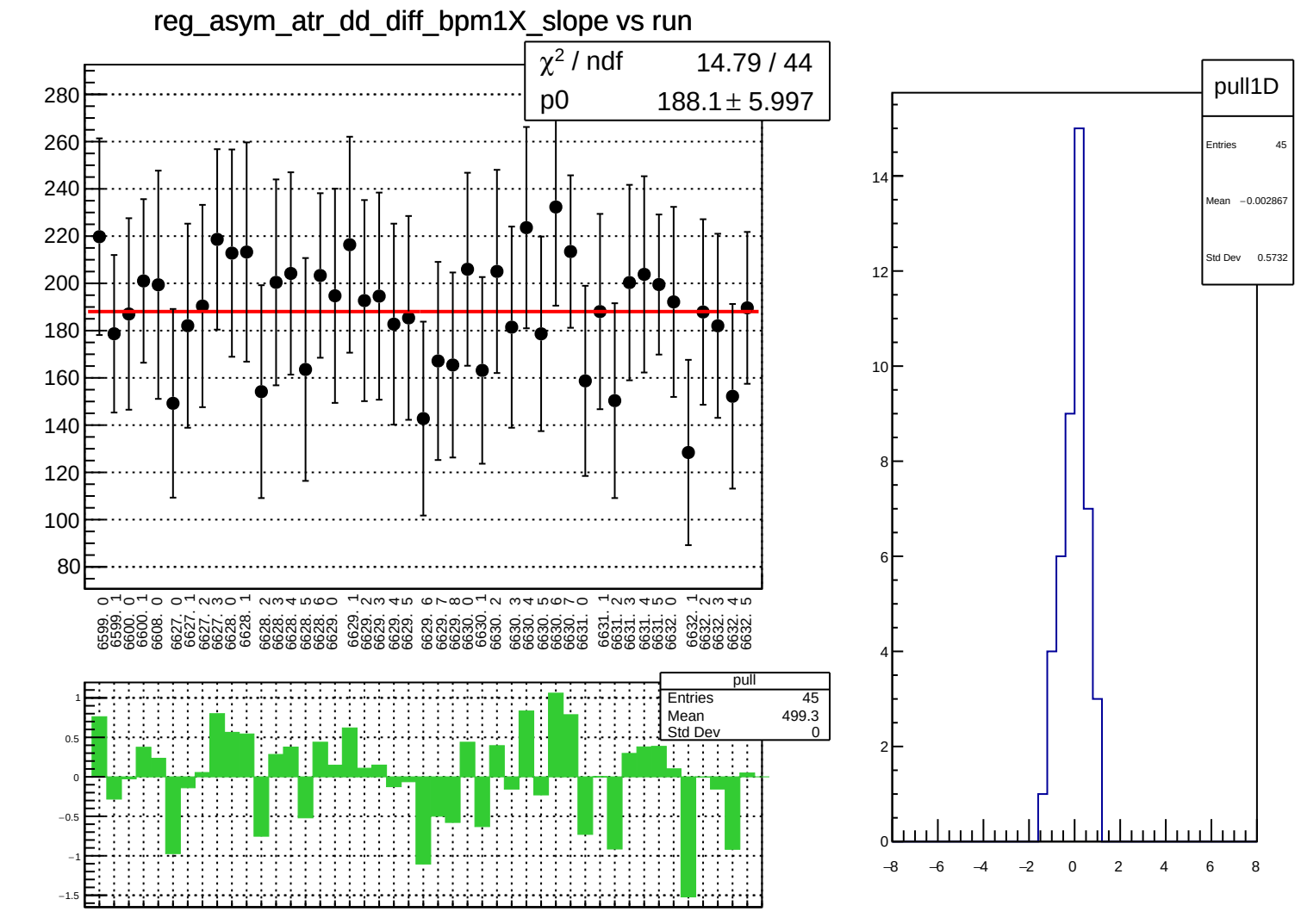

pull1D
Entries 45
Mean −0.008573
Std Dev 0.4465
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

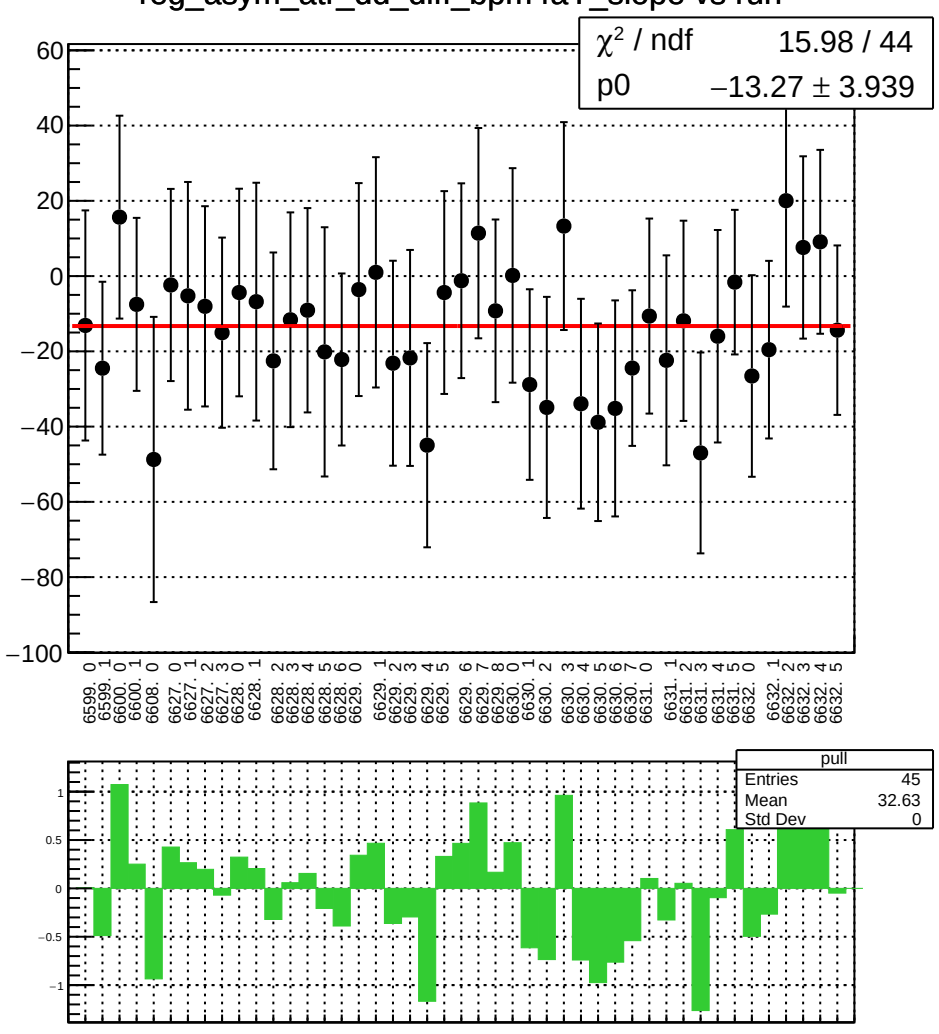

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.34 / 44
p0 319.8 ± 7.669
400
350
300
250
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −31.87
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.009497
Std Dev 0.5643
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

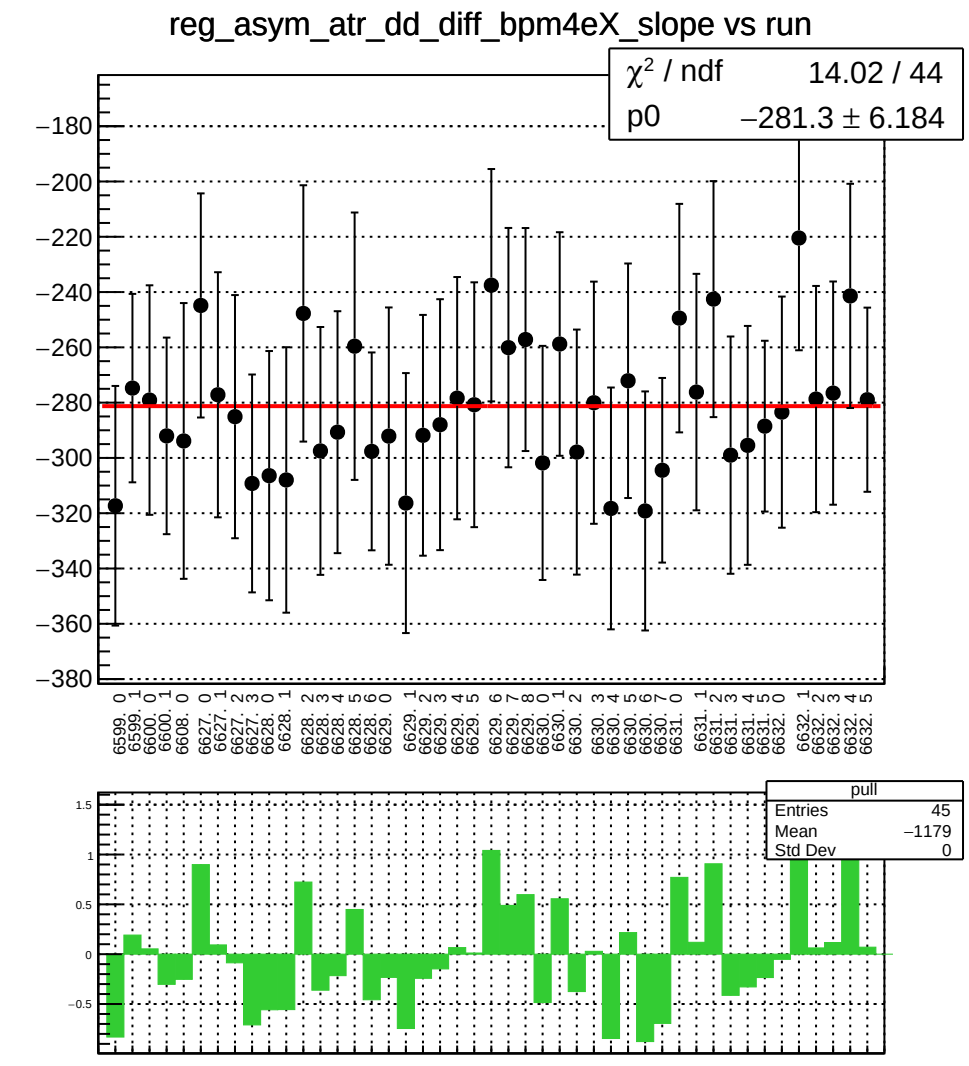

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.102 / 44
p0 56.21 ± 5.837
150
100
50
0
−50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −34.21
Std Dev 0
1
0.5
0
−0.5
−1

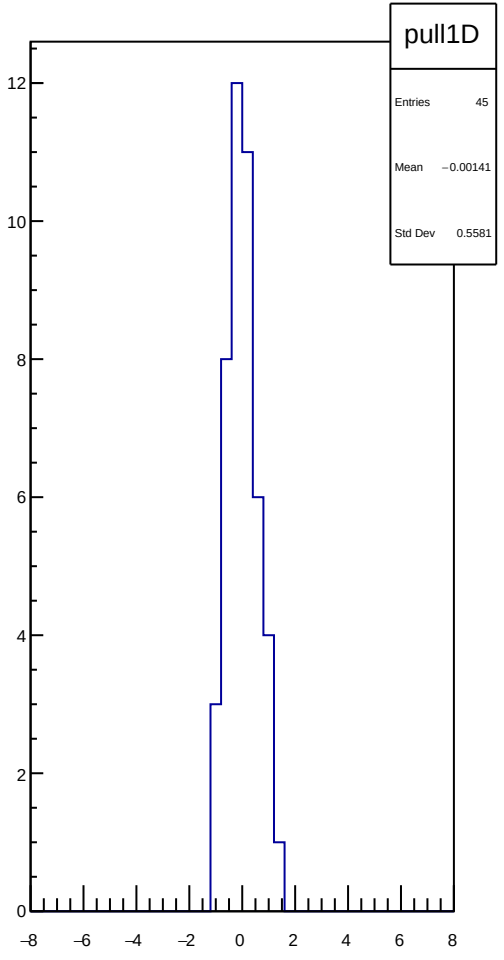

pull1D
Entries 45
Mean 0.01338
Std Dev 0.4495
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

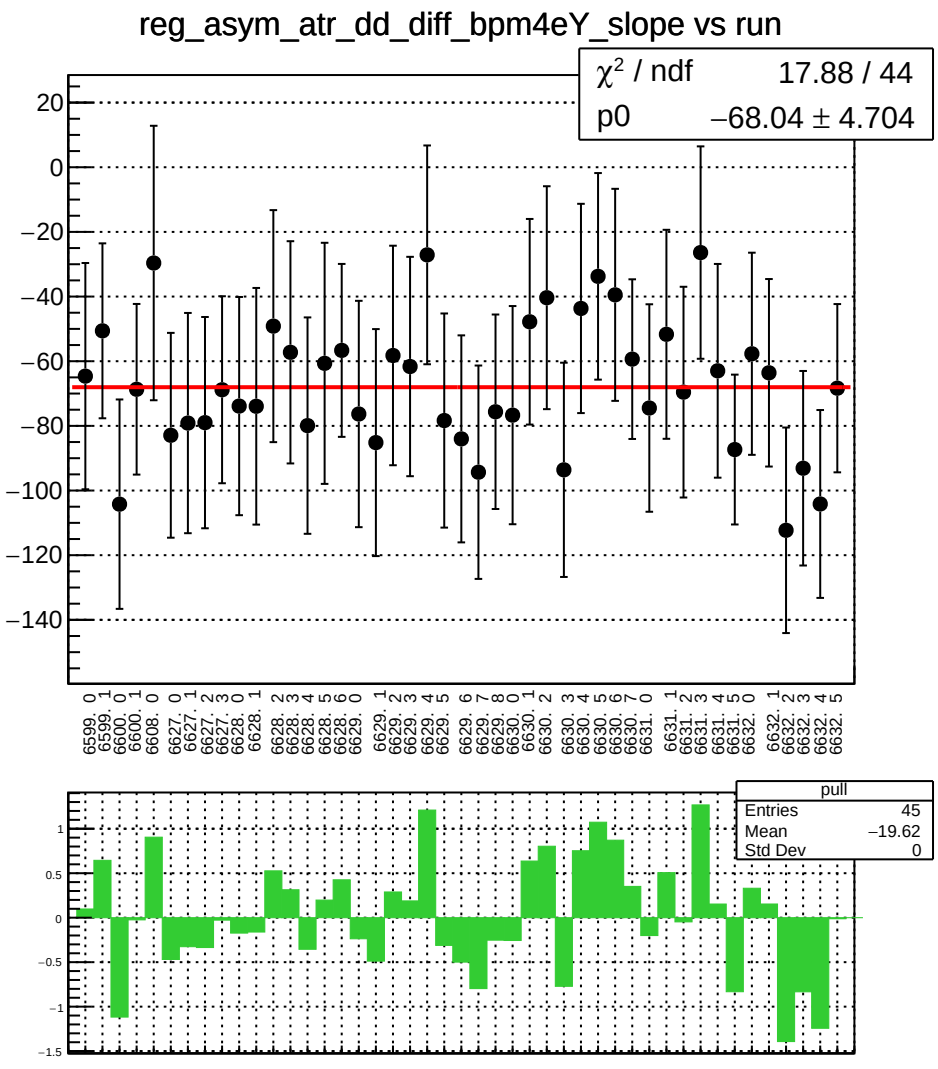

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 198.8 / 44
p0 −168.5 ± 0.3146
−150
−155
−160
−165
−170
−175
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 191
Std Dev 0
6
4
2
0
−2
pull1D
Entries 45
Mean −0.09045
Std Dev 2.1
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

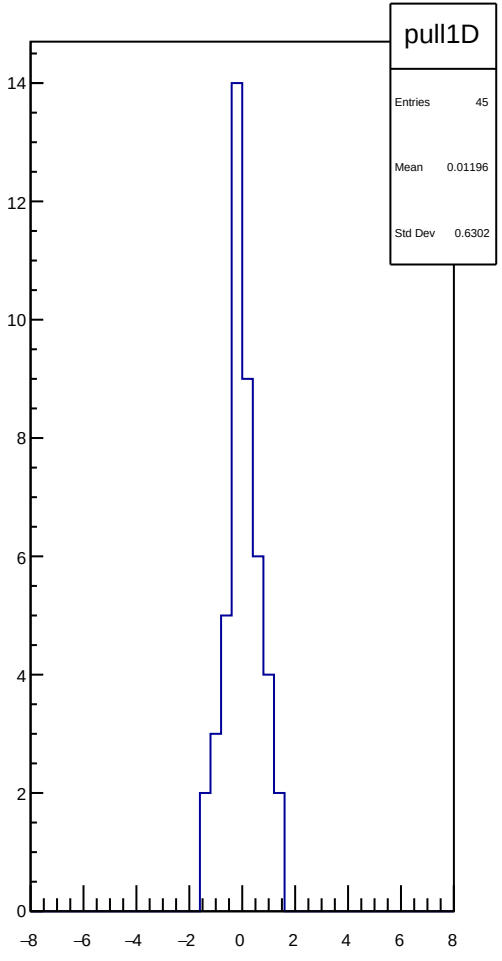

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 14.79 / 44
p0 188.1 ± 5.997
pull
Entries 45
Mean 499.3
Std Dev 0
pull1D
Entries 45
Mean −0.002867
Std Dev 0.5732

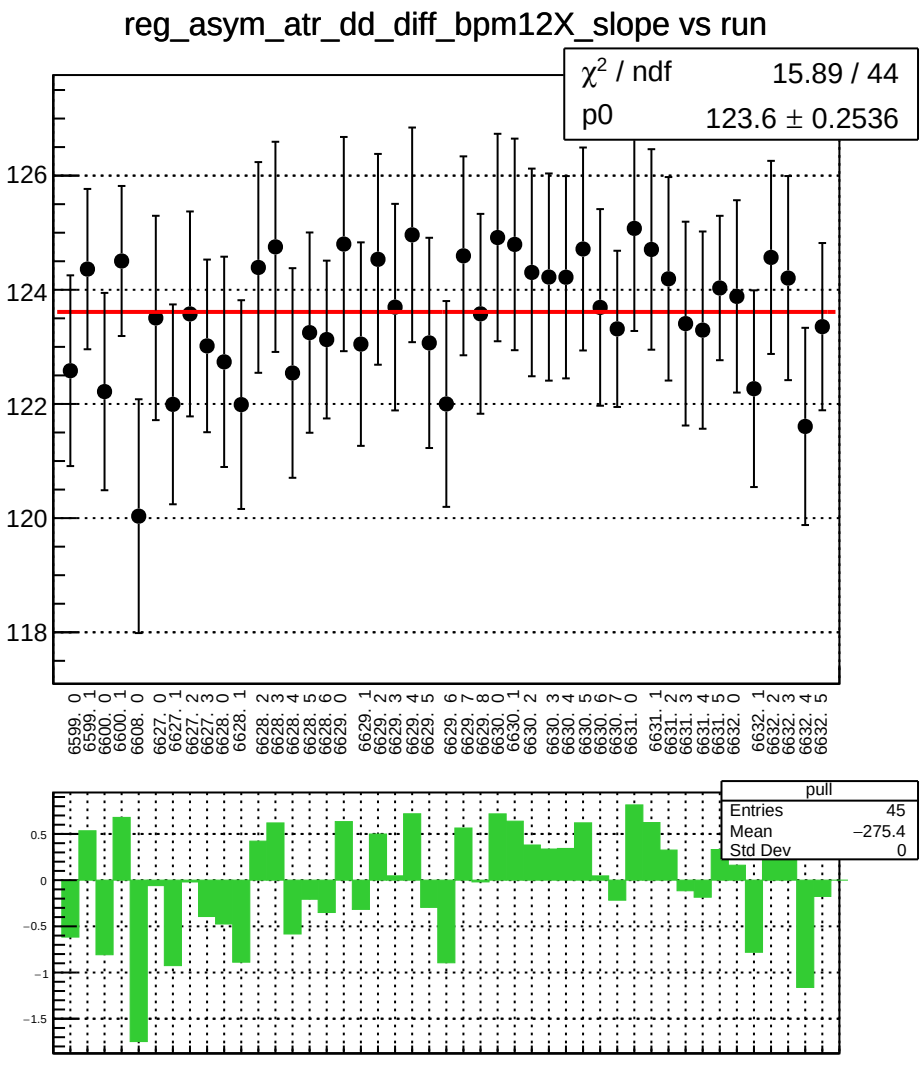

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.98 / 44
p0 −13.27 ± 3.939
pull
Entries 45
Mean 32.63
Std Dev 0
pull1D
Entries 45
Mean −0.007311
Std Dev 0.5958

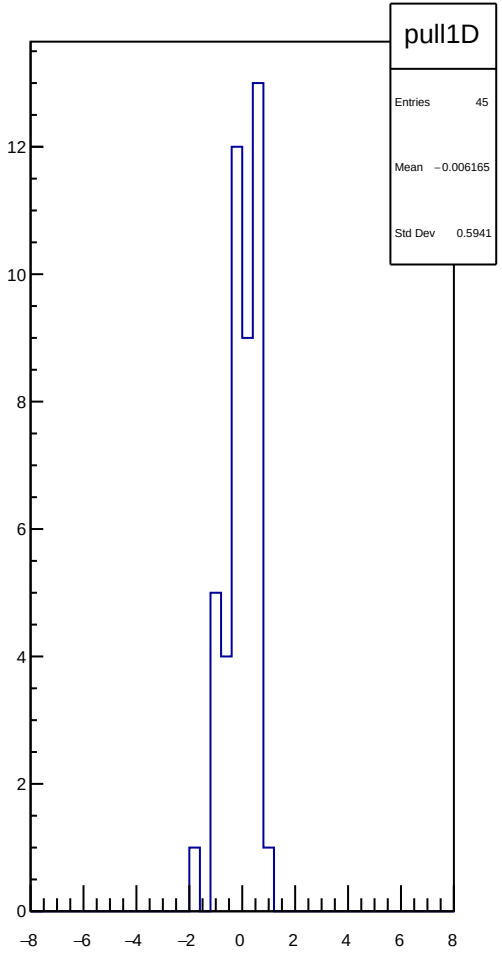

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.02 / 44
p0 −281.3 ± 6.184
pull
Entries 45
Mean −1179
Std Dev 0

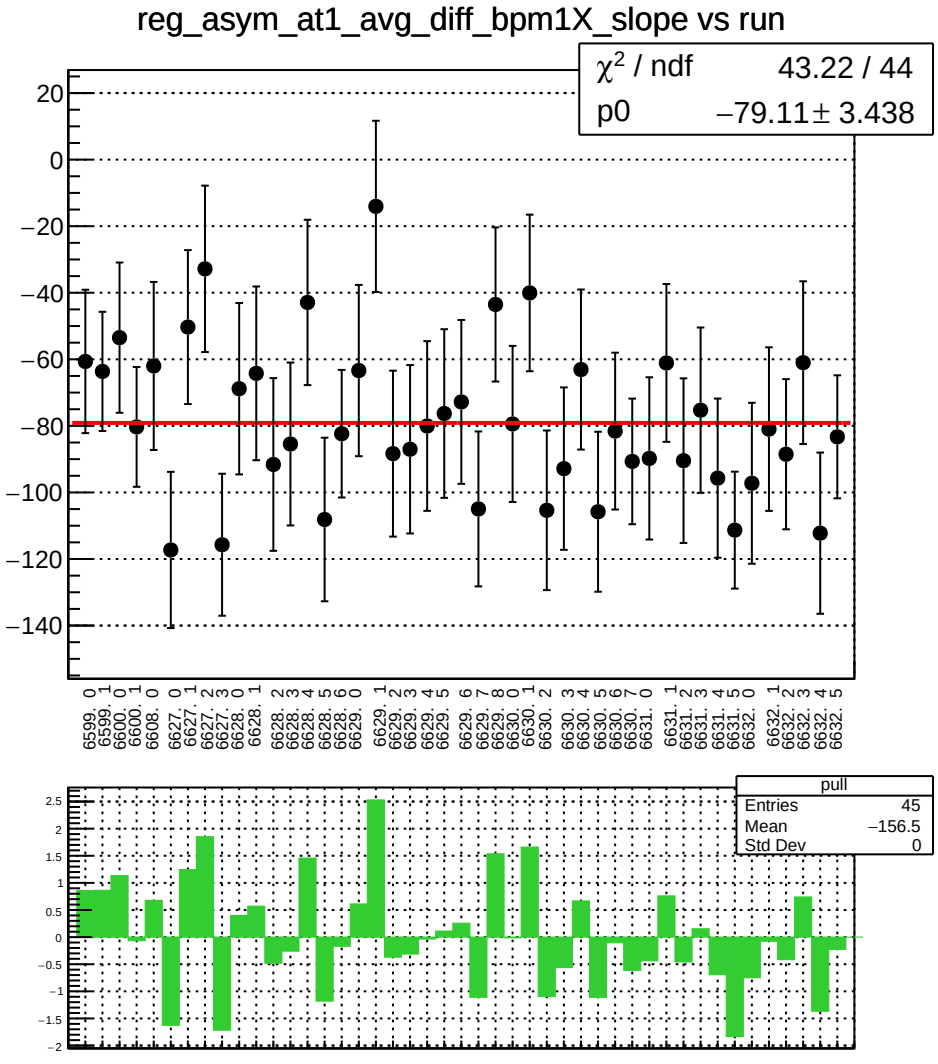

pull1D
Entries 45
Mean −0.00141
Std Dev 0.5581

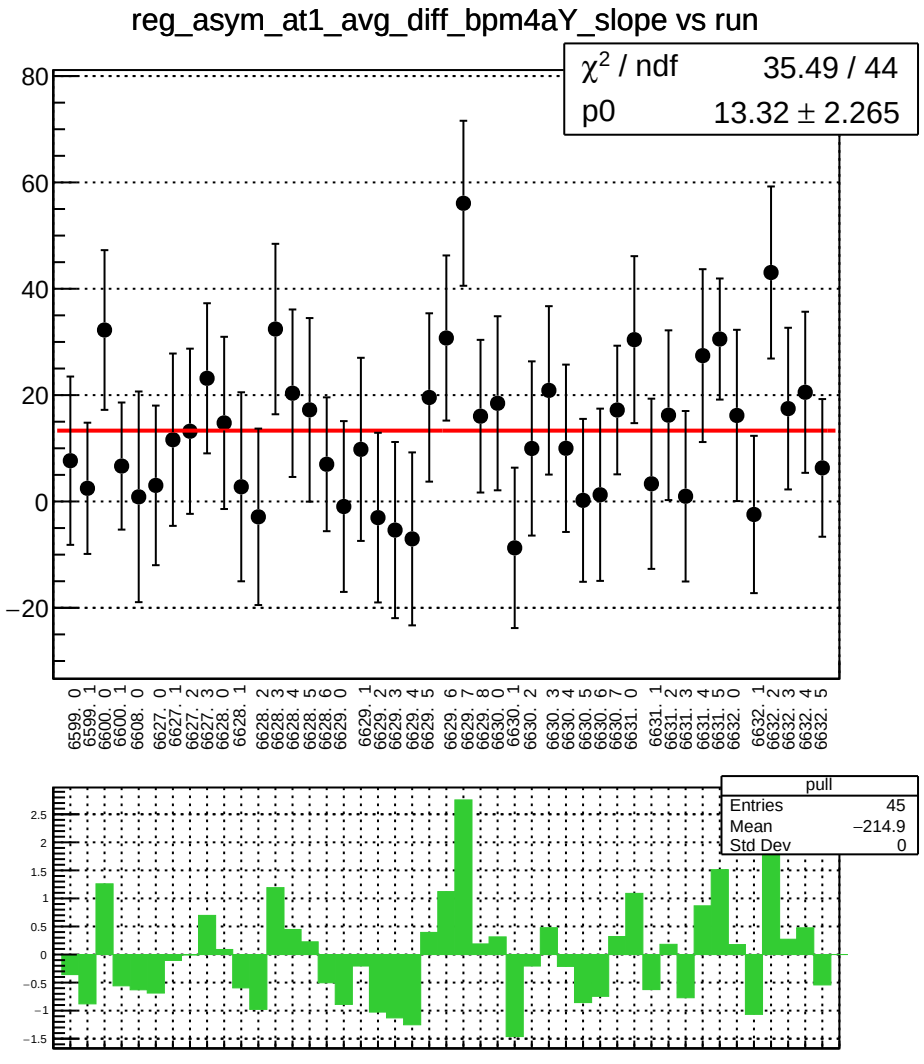

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.88 / 44
p0 −68.04 ± 4.704
pull
Entries 45
Mean −19.62
Std Dev 0

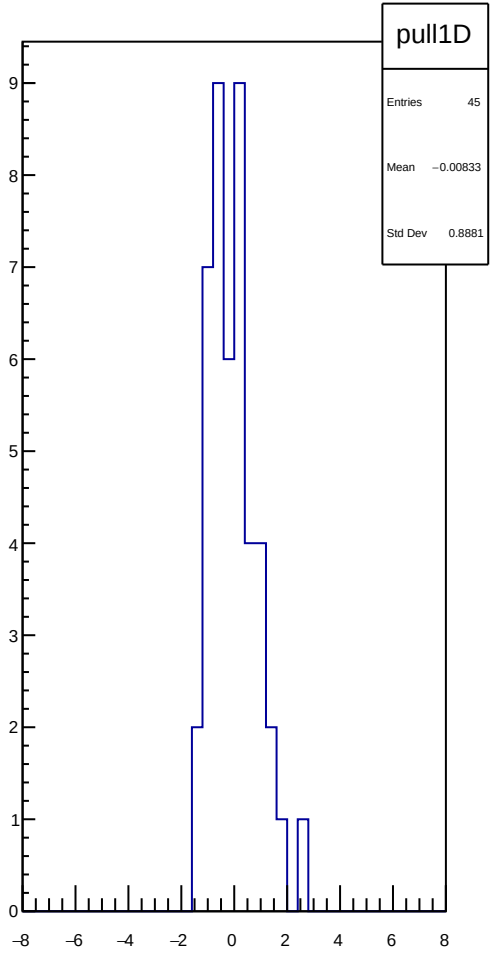

pull1D
Entries 45
Mean 0.01196
Std Dev 0.6302

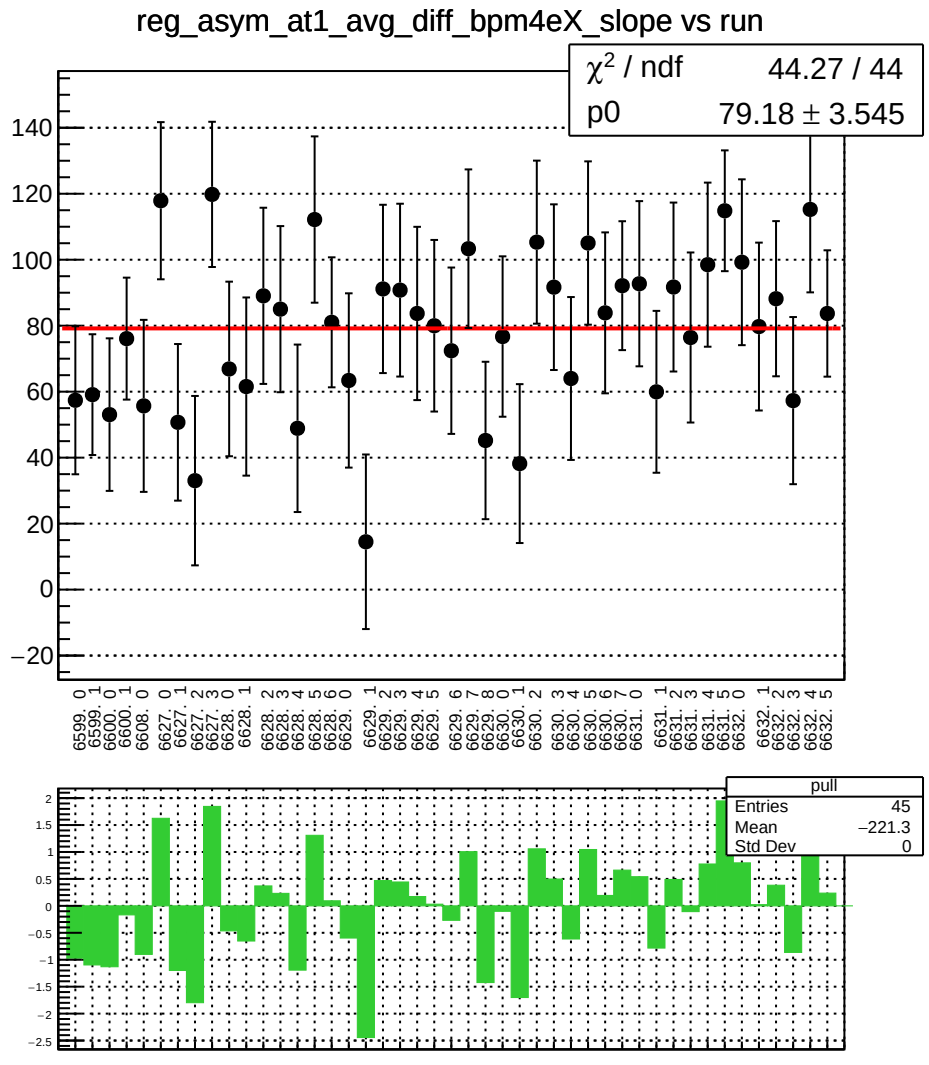

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 15.89 / 44
p0 123.6 ± 0.2536
126
124
122
120
118
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −275.4
Std Dev 0
0.5
0
−0.5
−1
−1.5

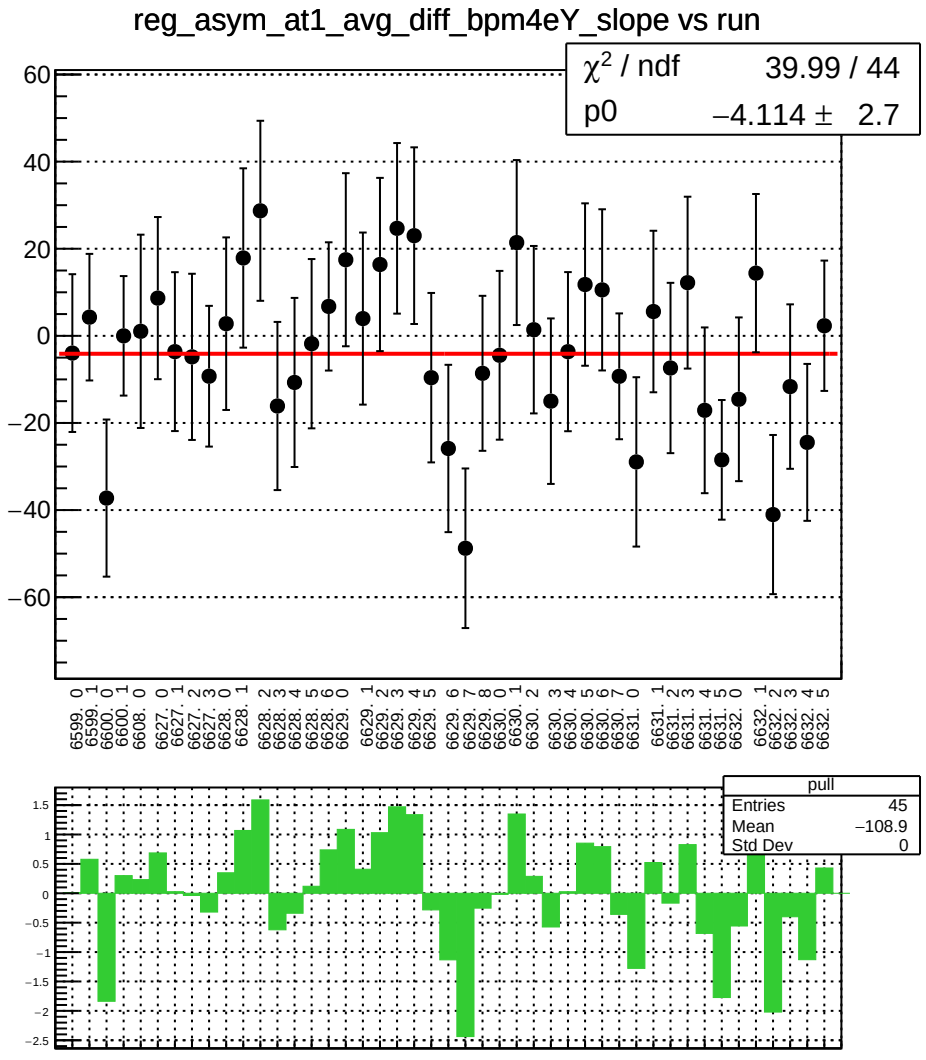

pull1D
Entries 45
Mean −0.006165
Std Dev 0.5941
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

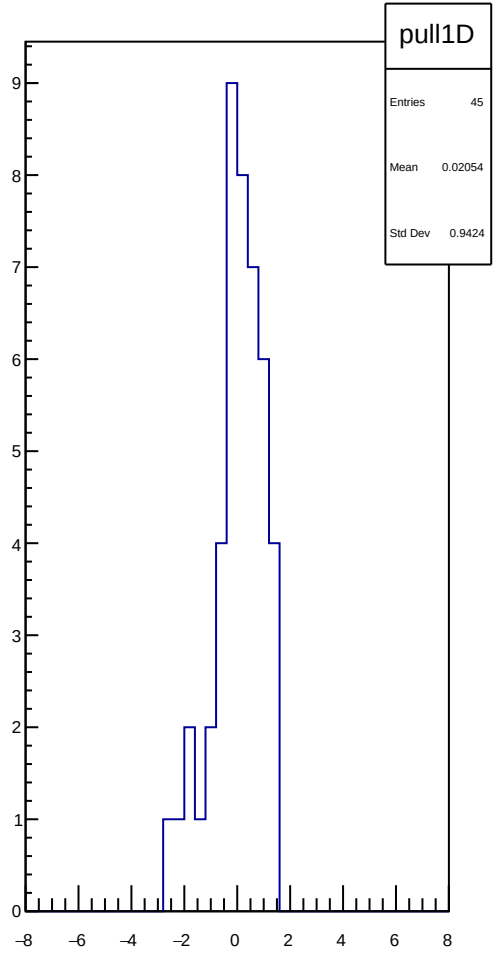

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 43.22 / 44
p0 −79.11 ± 3.438
pull
Entries 45
Mean −156.5
Std Dev 0
pull1D
Entries 45
Mean 0.02222
Std Dev 0.9797

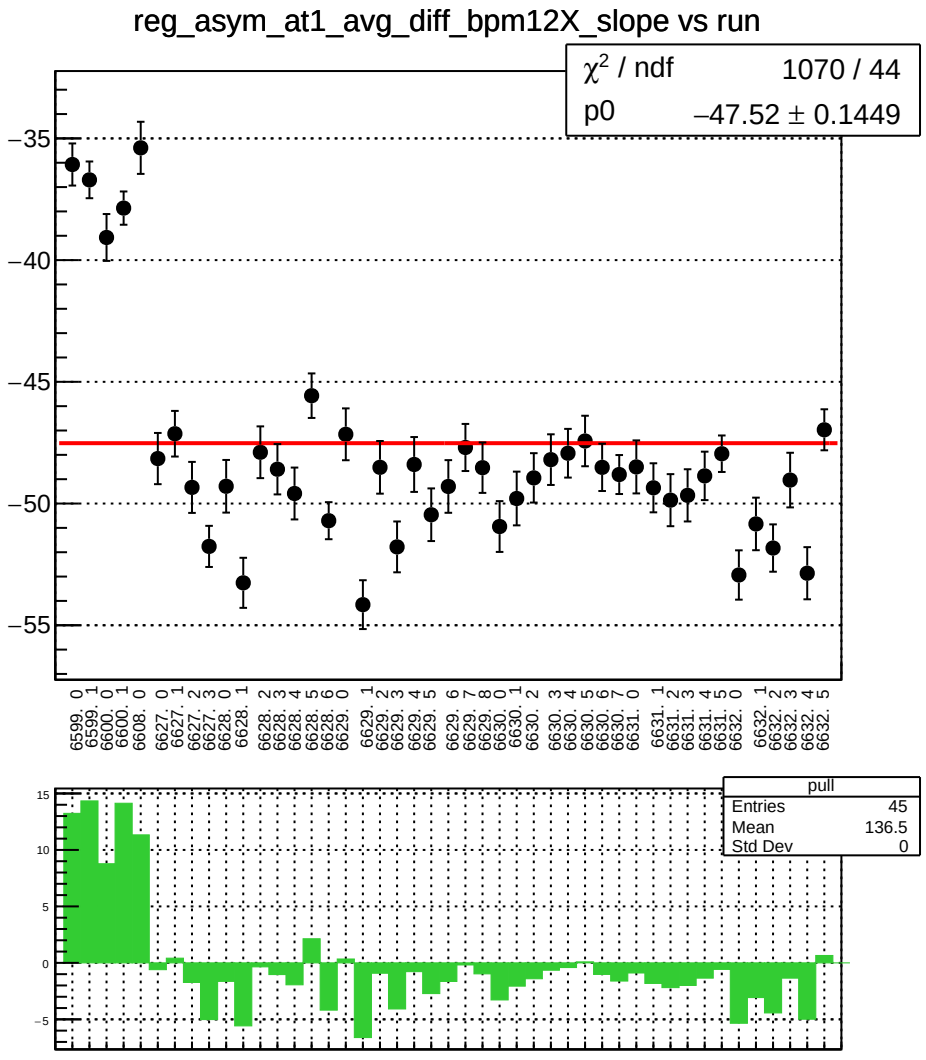

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 35.49 / 44
p0 13.32 ± 2.265
pull
Entries 45
Mean −214.9
Std Dev 0

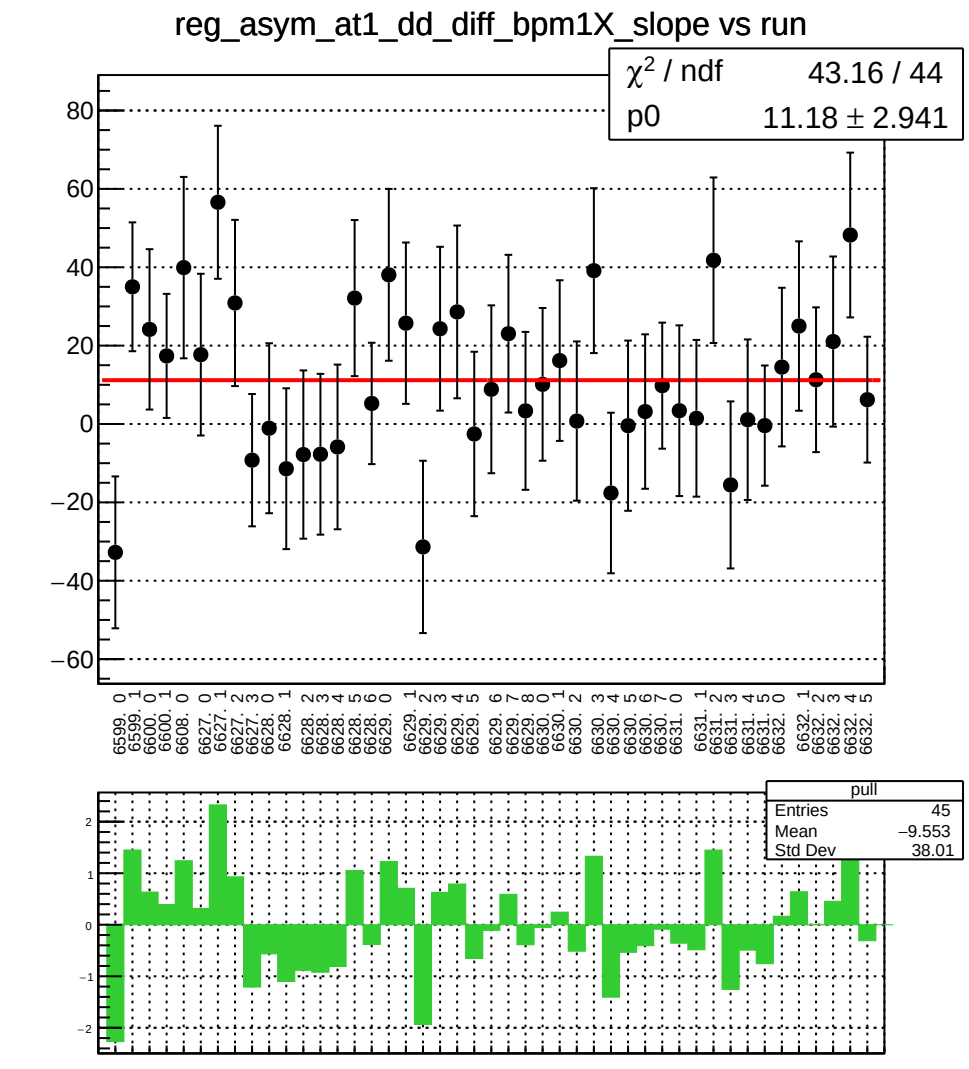

pull1D
Entries 45
Mean −0.00833
Std Dev 0.8881

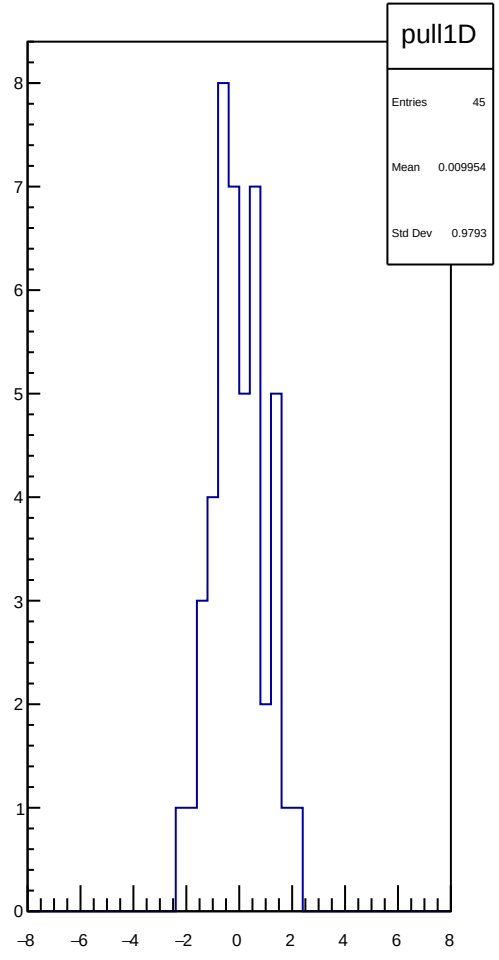

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 44.27 / 44
p0 79.18 ± 3.545
140
120
100
80
60
40
20
0
−20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −221.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.01765
Std Dev 0.9916
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

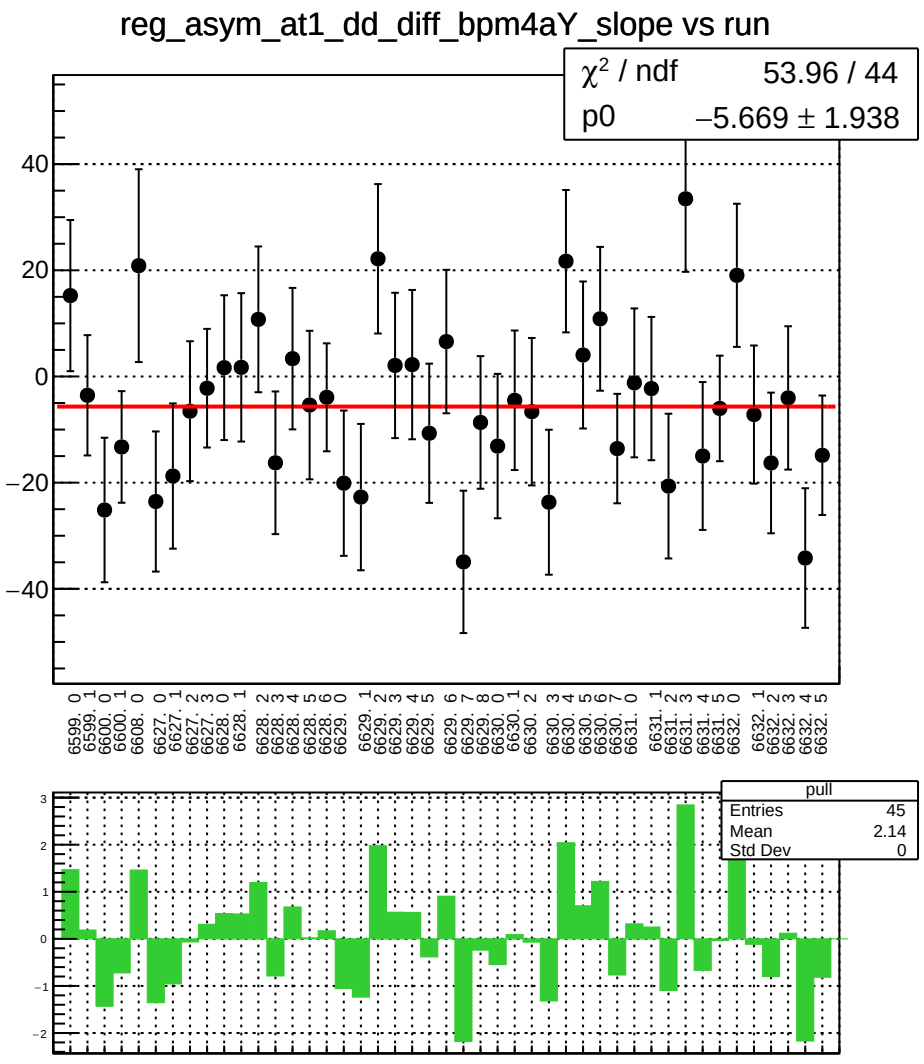

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 39.99 / 44
p0 −4.114 ± 2.7
pull
Entries 45
Mean −108.9
Std Dev 0

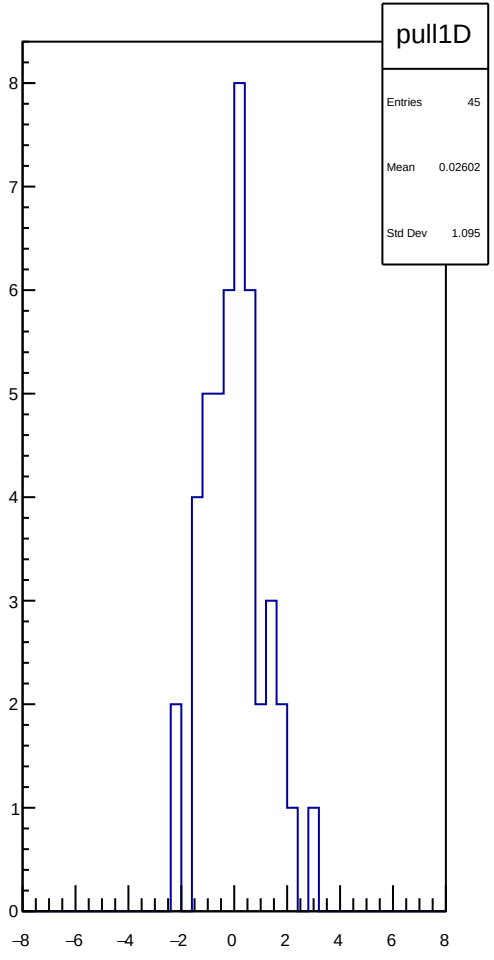

pull1D
Entries 45
Mean 0.02054
Std Dev 0.9424

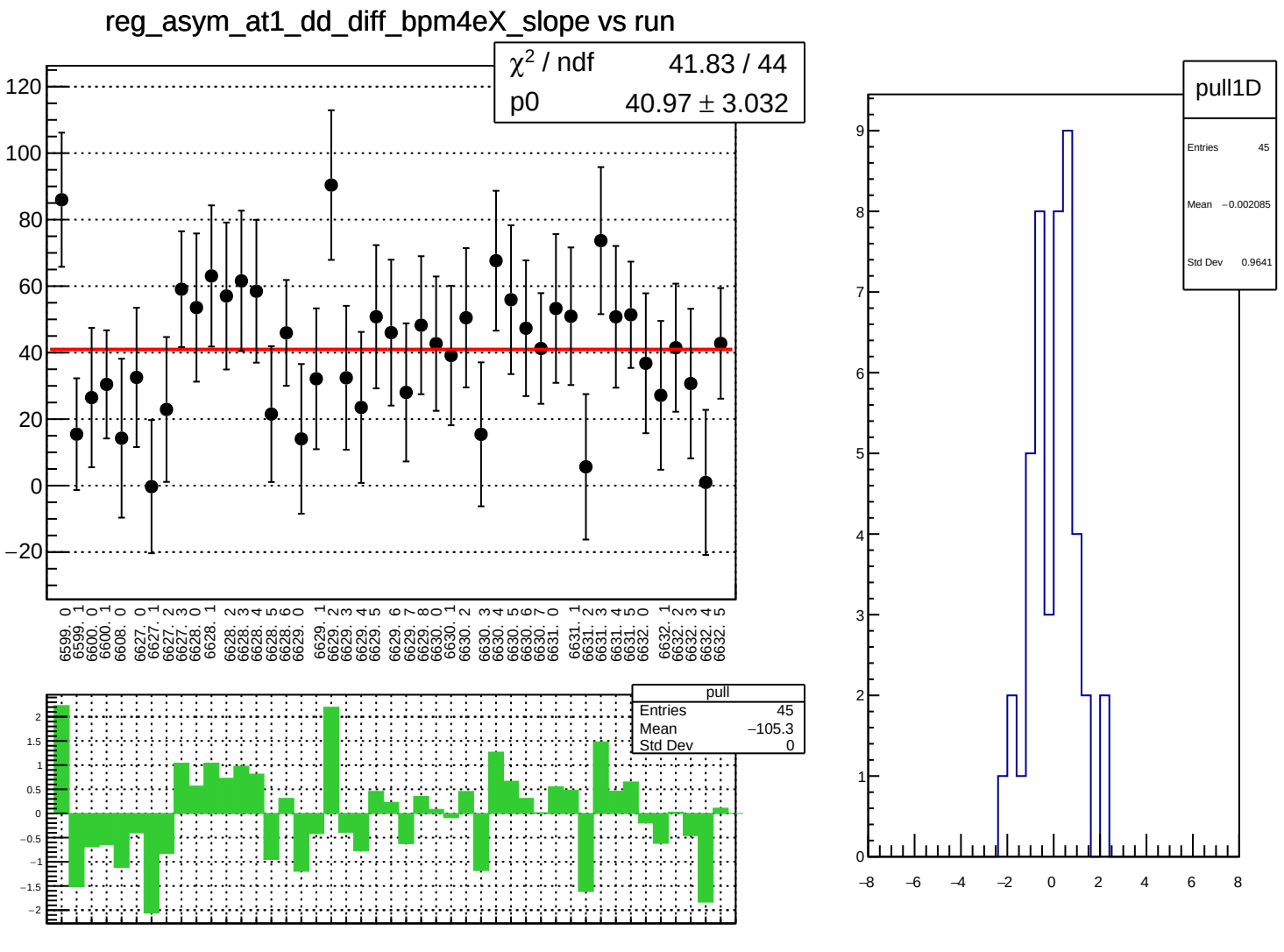

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 1070 / 44
p0 −47.52 ± 0.1449
−35
−40
−45
−50
−55
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 136.5
Std Dev 0
15
10
5
0
−5
pull1D
Entries 45
Mean −1.87
Std Dev 1.895
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

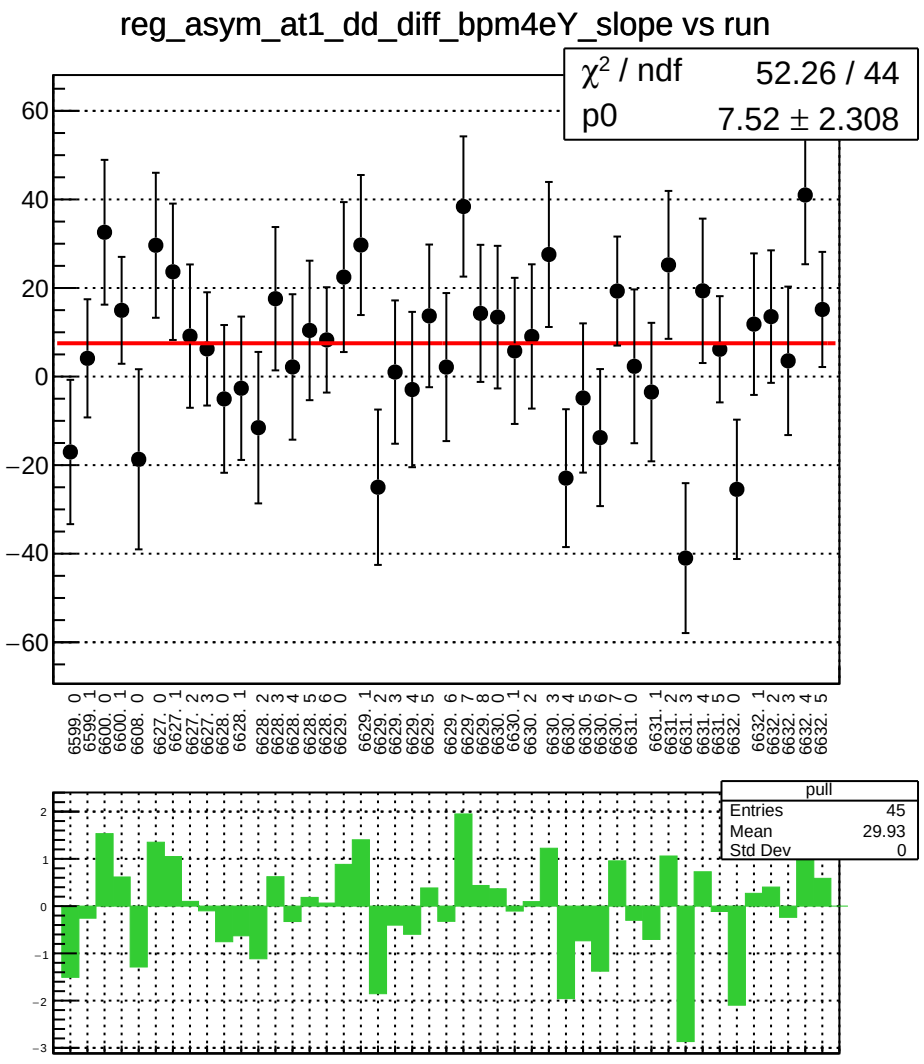

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 43.16 / 44
p0 11.18 ± 2.941
pull
Entries 45
Mean −9.553
Std Dev 38.01

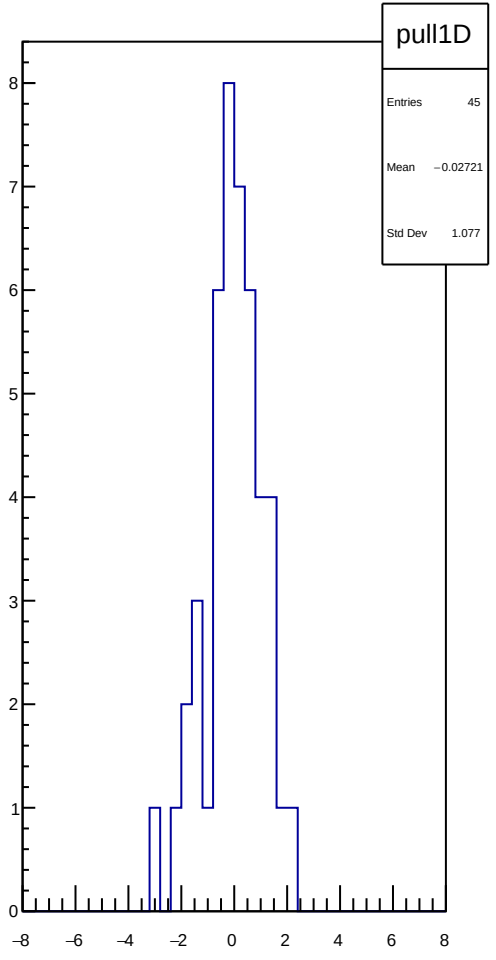

pull1D
Entries 45
Mean 0.009954
Std Dev 0.9793

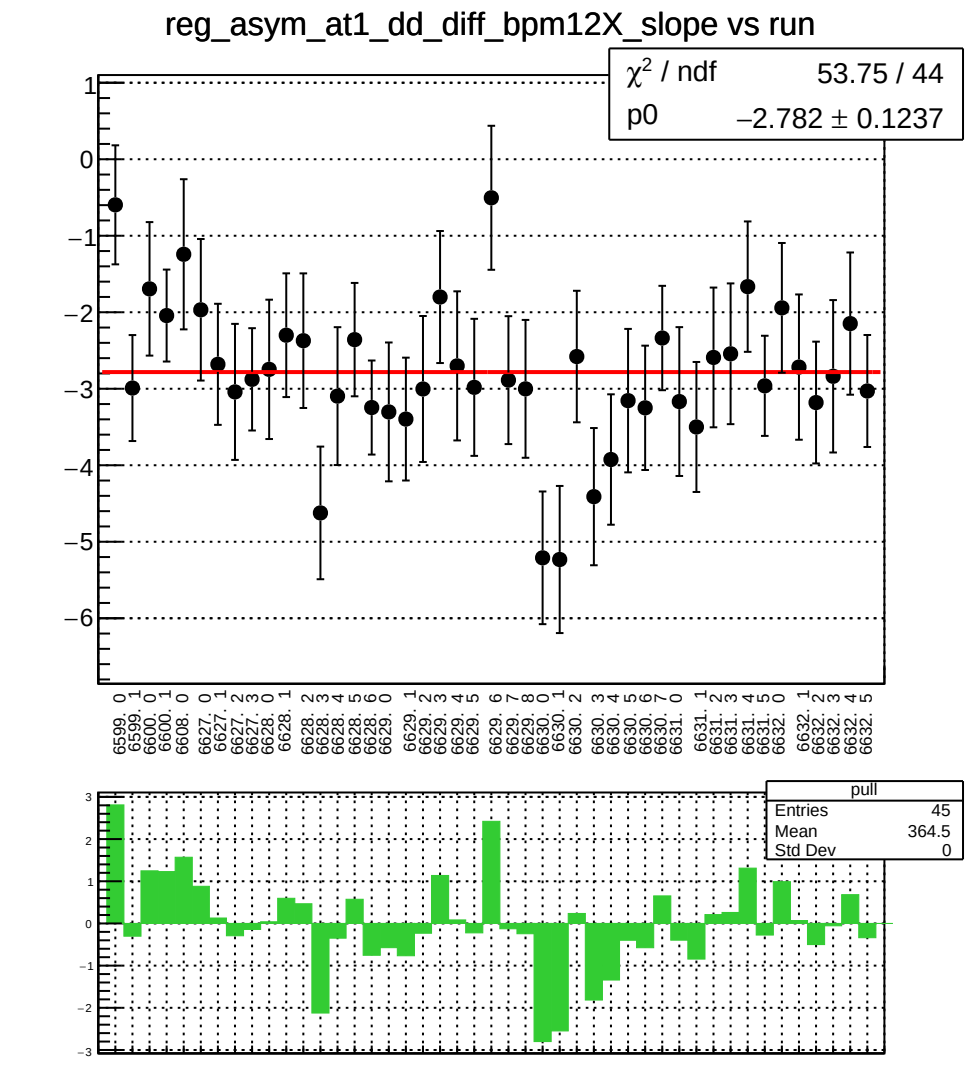

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 53.96 / 44
p0 −5.669 ± 1.938
40
20
0
−20
−40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 2.14
Std Dev 0
3
2
1
0
−1
−2

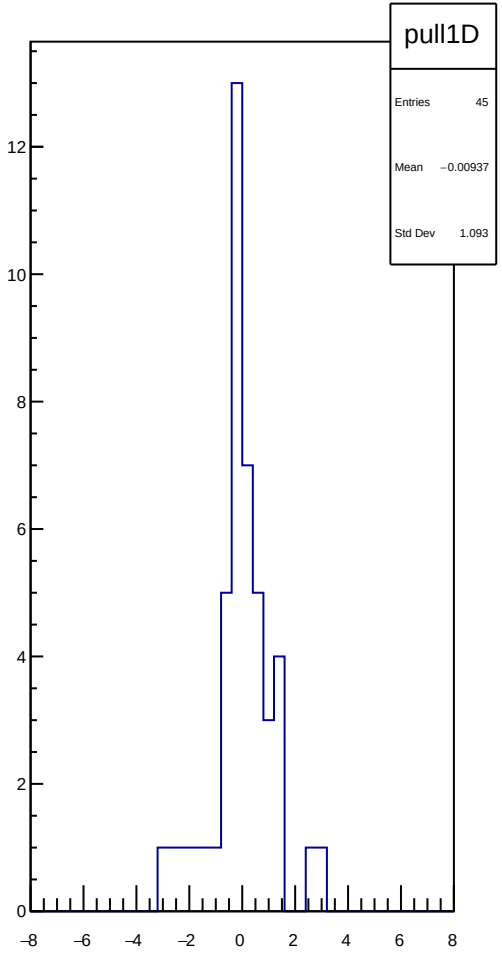

pull1D
Entries 45
Mean 0.02602
Std Dev 1.095
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

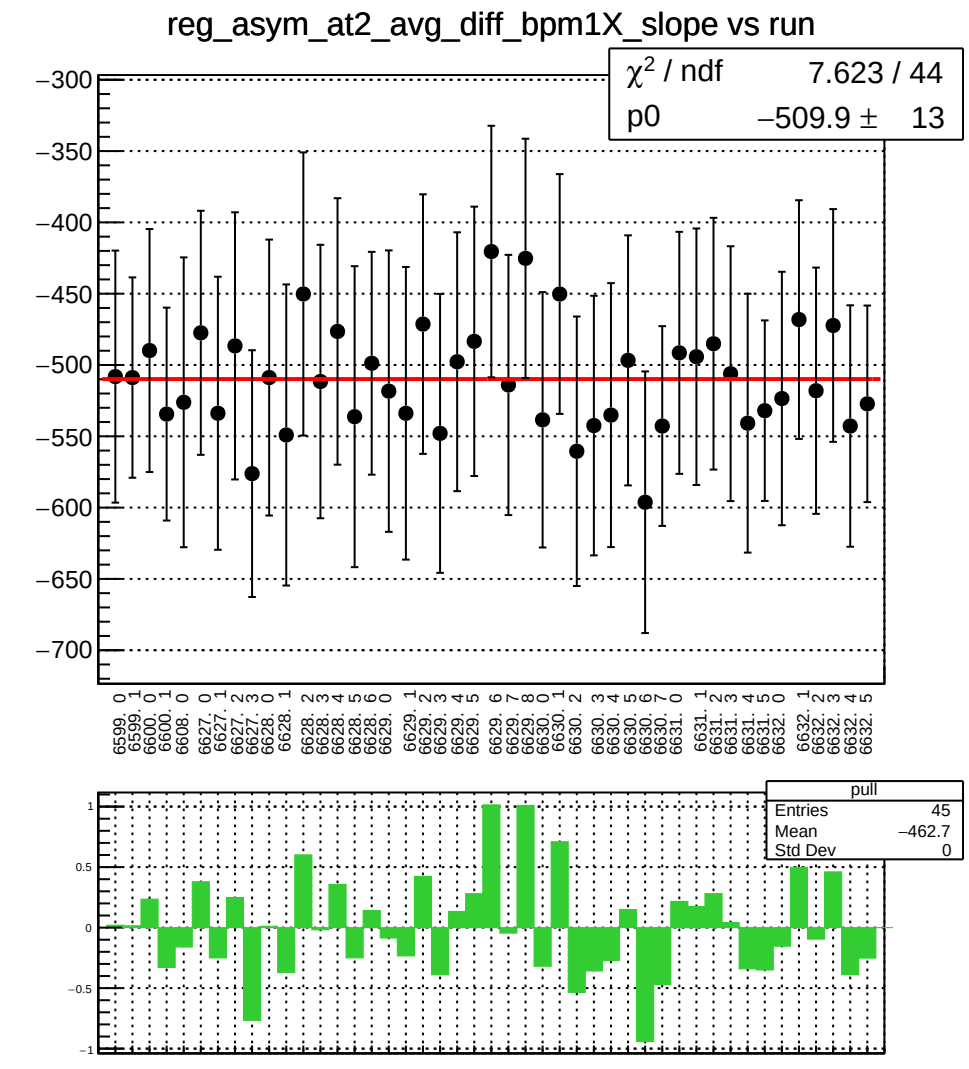

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 41.83 / 44
p0 40.97 ± 3.032
pull
Entries 45
Mean −105.3
Std Dev 0
pull1D
Entries 45
Mean −0.002085
Std Dev 0.9641

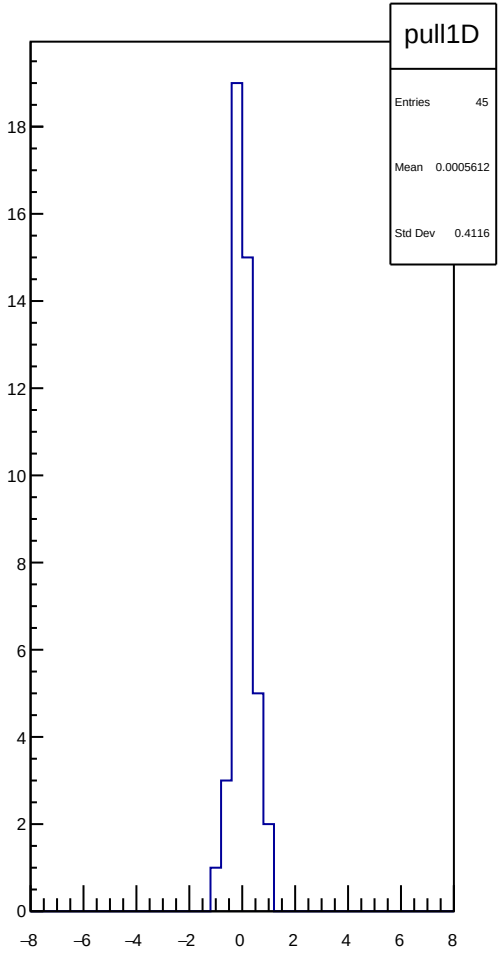

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 52.26 / 44
p0 7.52 ± 2.308
pull
Entries 45
Mean 29.93
Std Dev 0

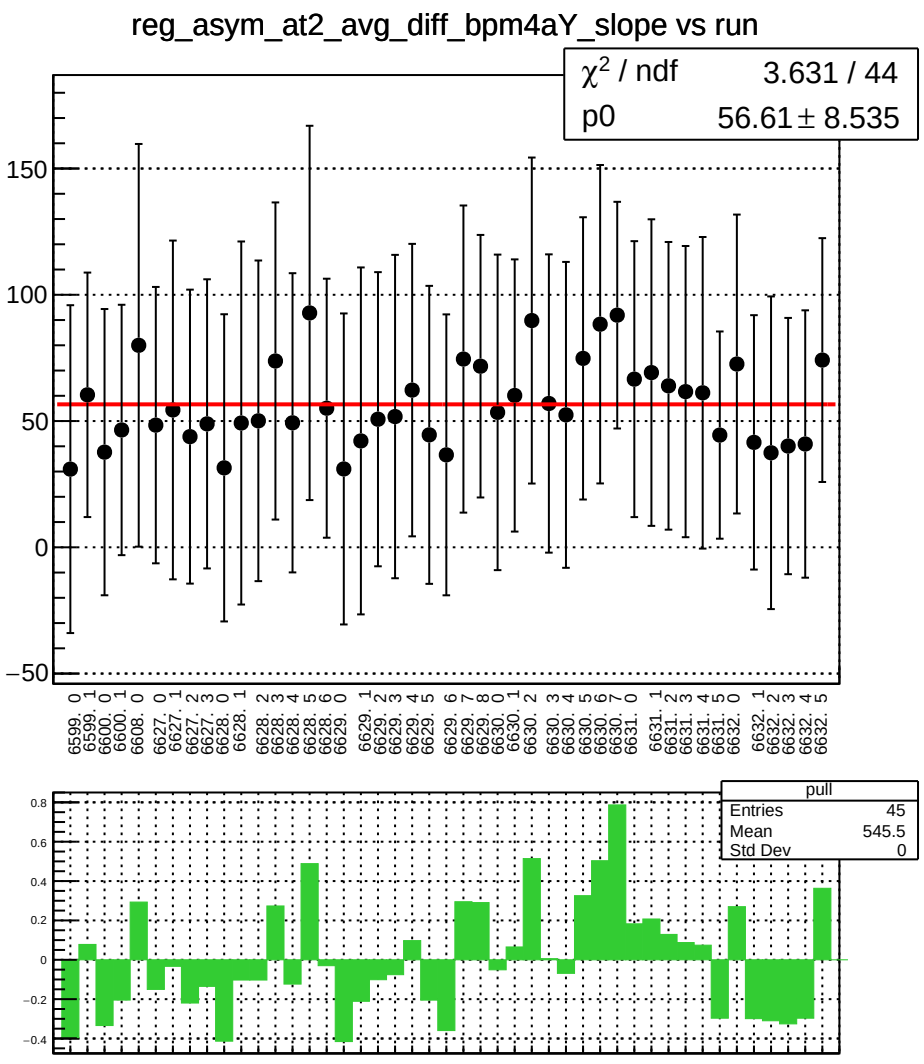

pull1D
Entries 45
Mean −0.02721
Std Dev 1.077

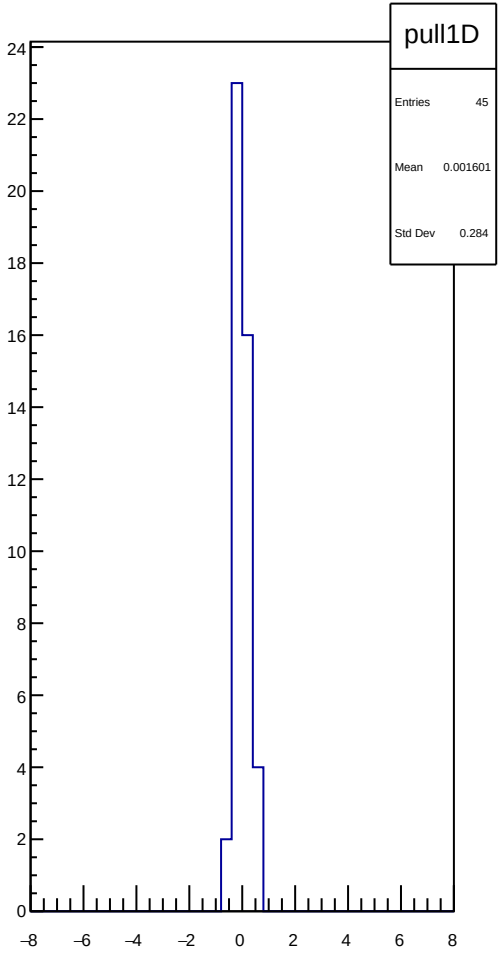

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 53.75 / 44
p0 −2.782 ± 0.1237
pull
Entries 45
Mean 364.5
Std Dev 0

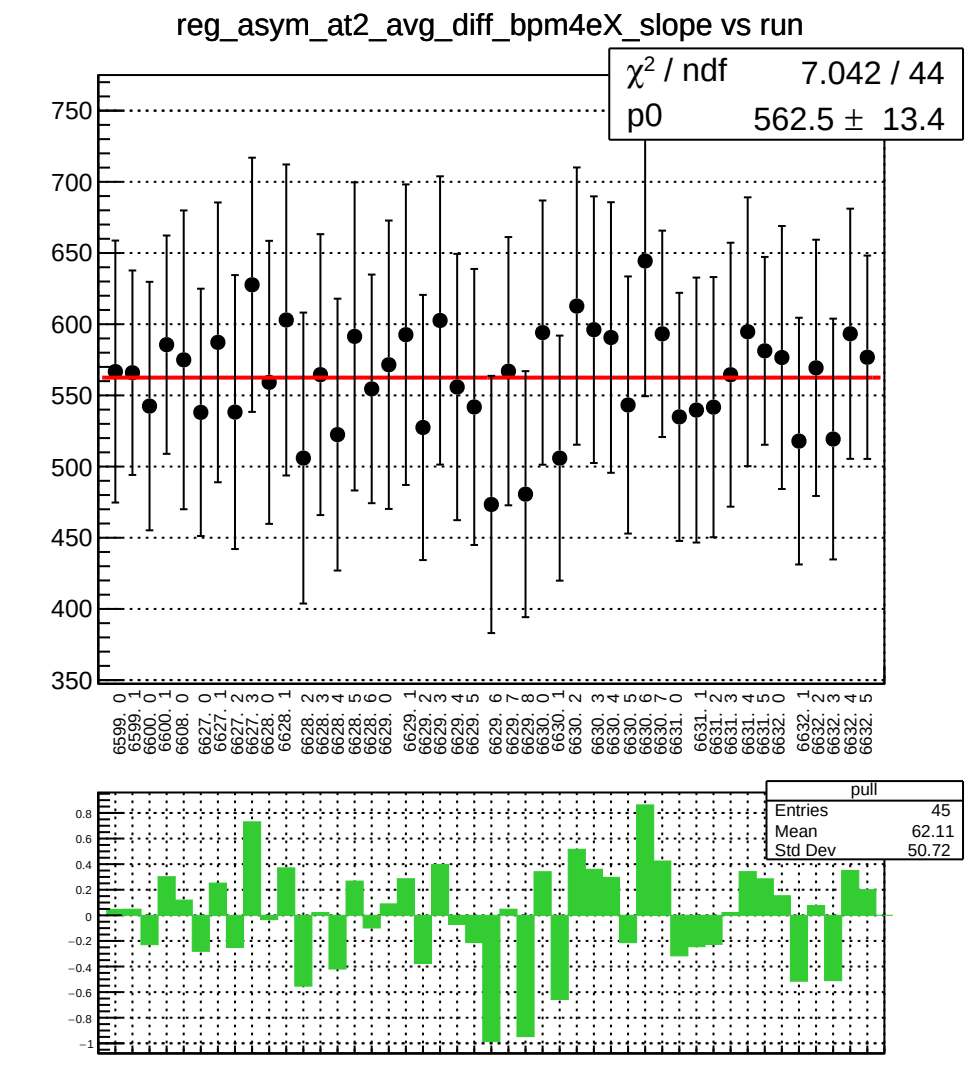

pull1D
Entries 45
Mean −0.00937
Std Dev 1.093

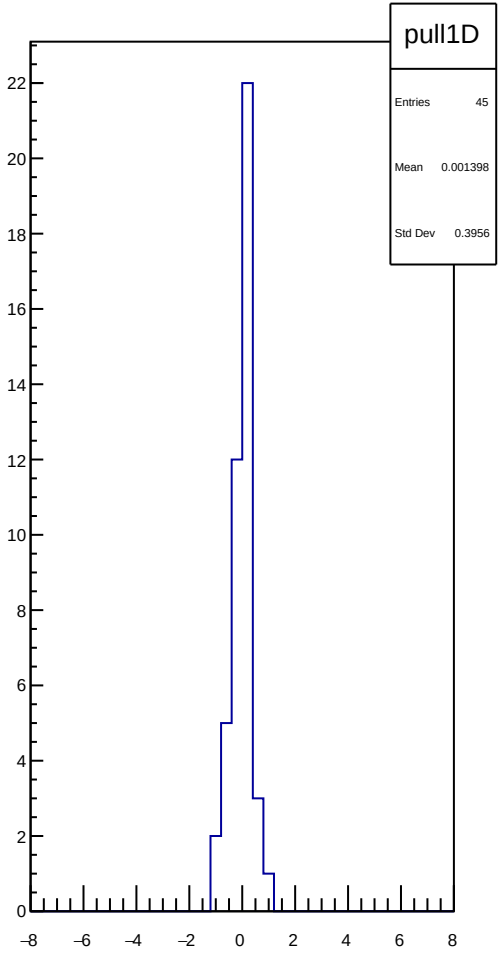

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 7.623 / 44
p0 −509.9 ± 13
−300
−350
−400
−450
−500
−550
−600
−650
−700
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −462.7
Std Dev 0
1
0.5
0
−0.5
−1

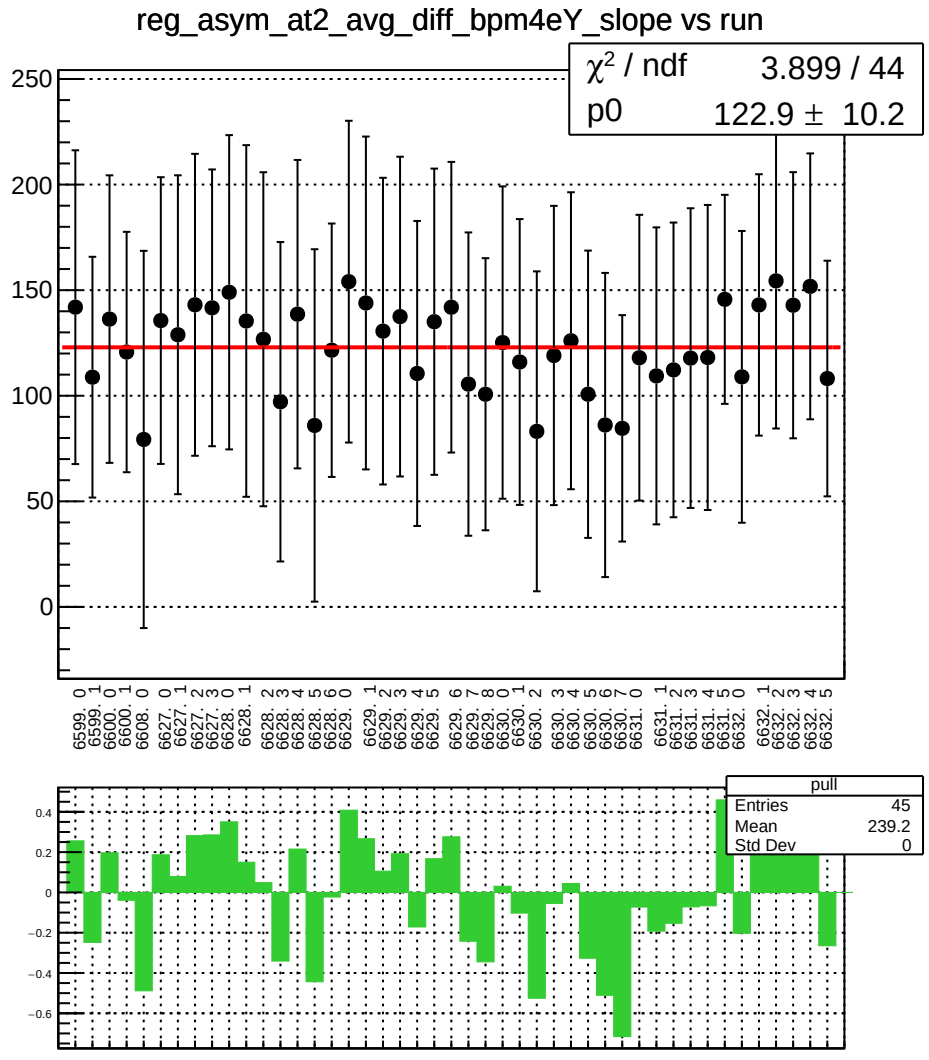

pull1D
Entries 45
Mean 0.0005612
Std Dev 0.4116
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

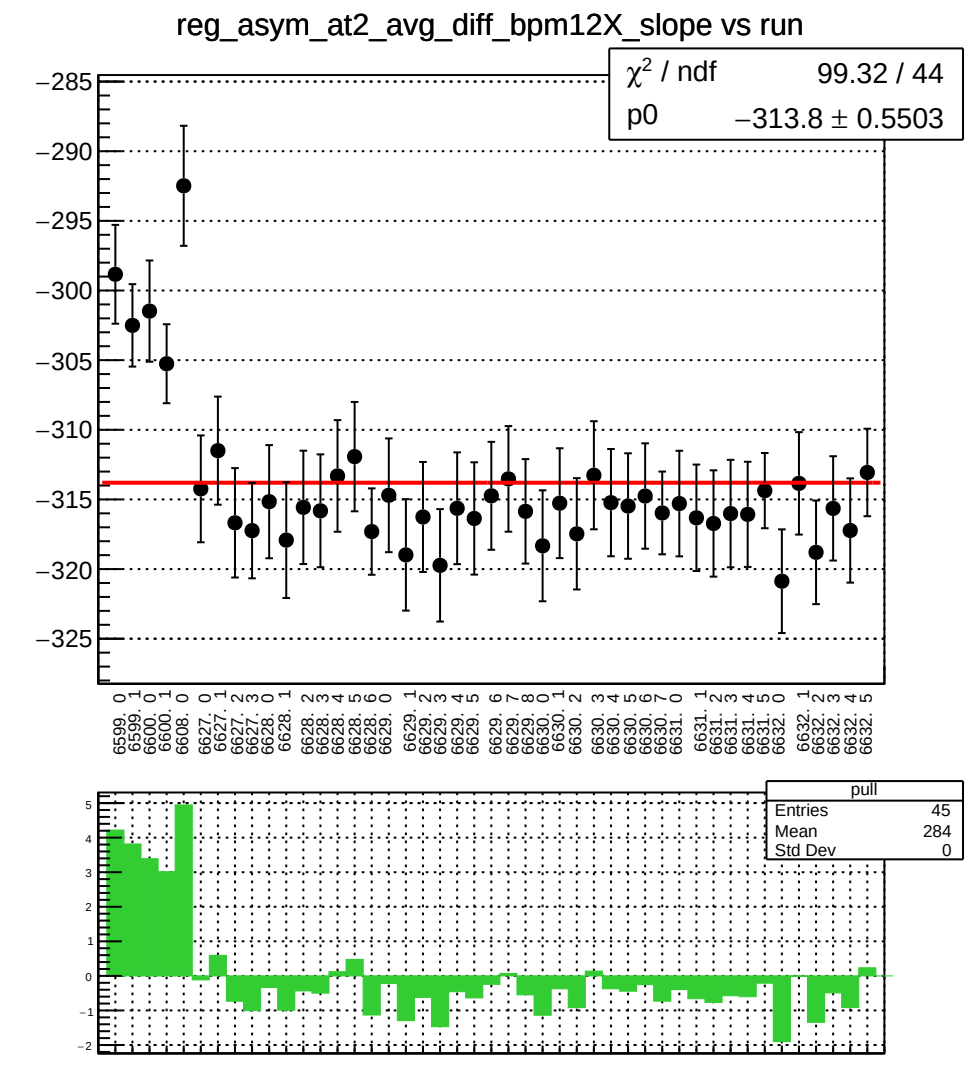

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.631 / 44
p0 56.61 ± 8.535
150
100
50
0
−50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 545.5
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4

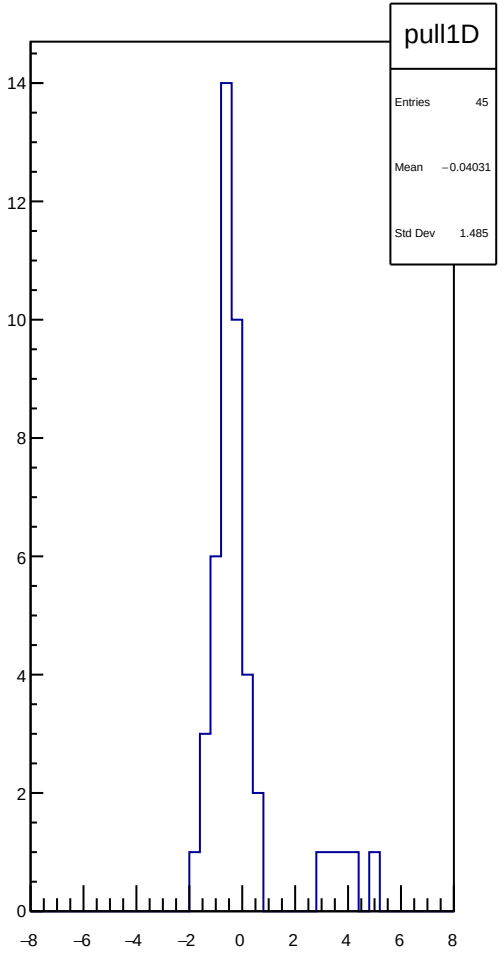

pull1D
Entries 45
Mean 0.001601
Std Dev 0.284
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

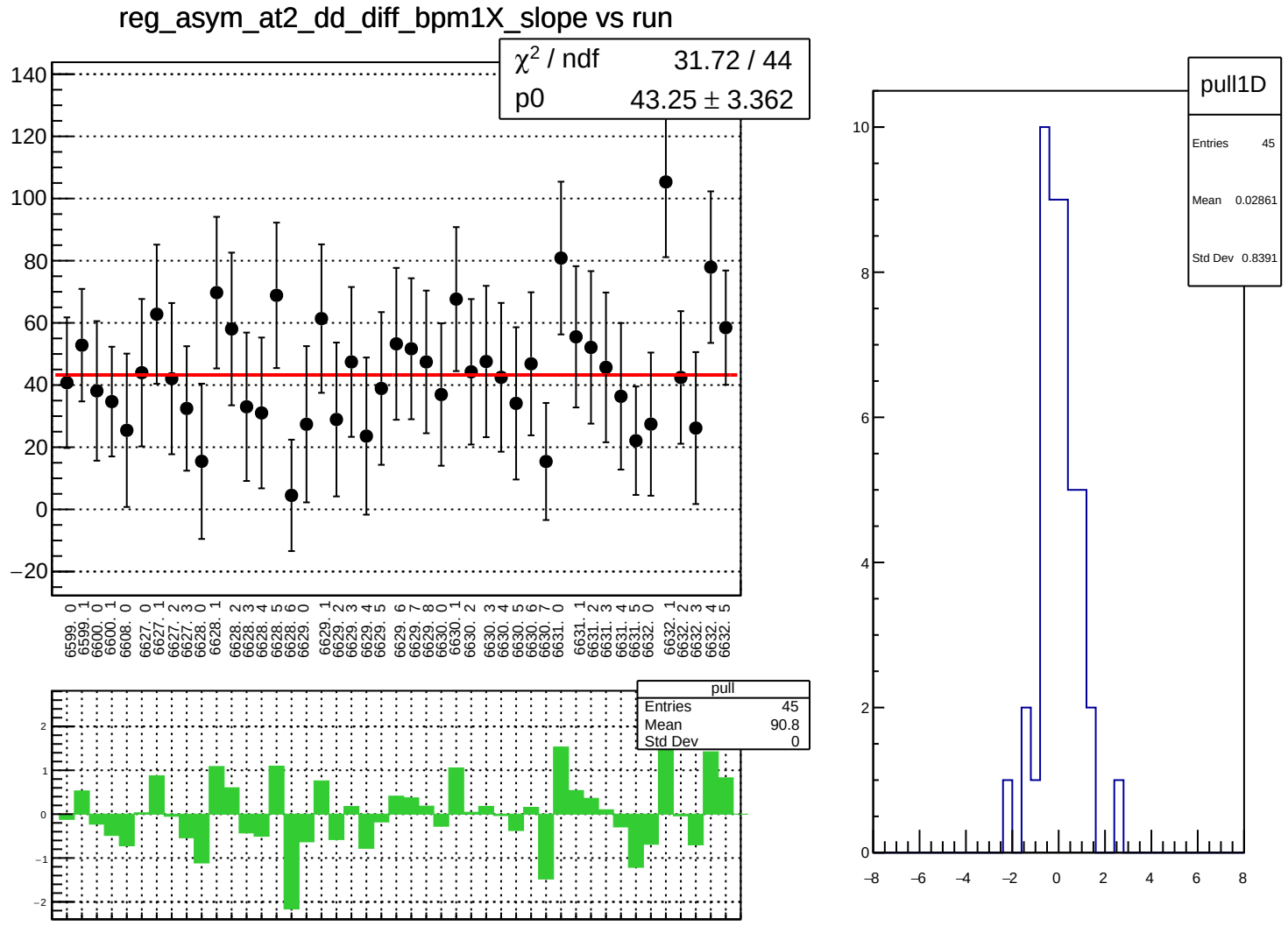

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.042 / 44
p0 562.5 ± 13.4
pull
Entries 45
Mean 62.11
Std Dev 50.72

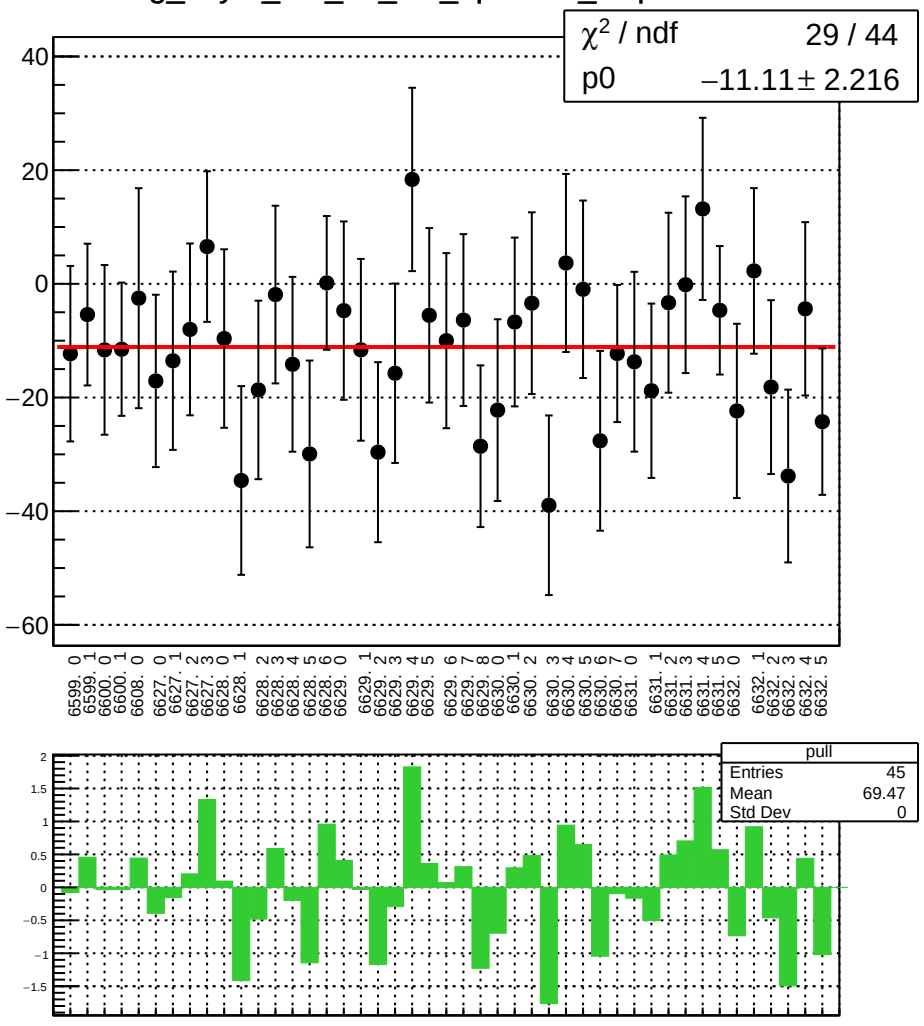

pull1D
Entries 45
Mean 0.001398
Std Dev 0.3956

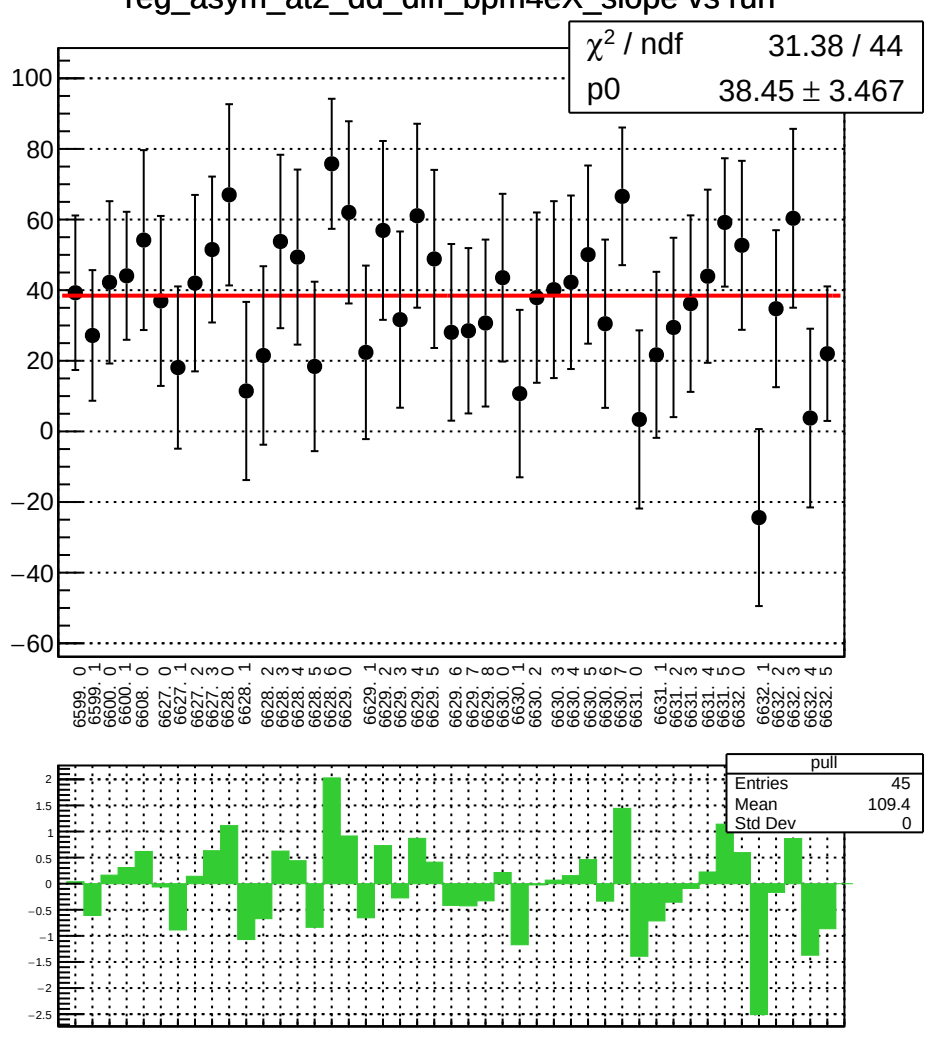

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.899 / 44
p0 122.9 ± 10.2
250
200
150
100
50
0
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 239.2
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 45
Mean −0.001099
Std Dev 0.2943
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

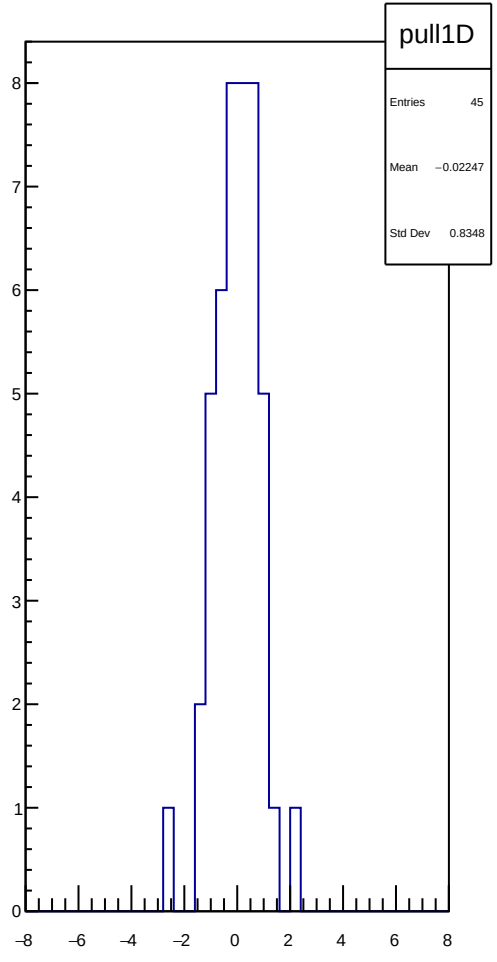

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 99.32 / 44
p0 −313.8 ± 0.5503
pull
Entries 45
Mean 284
Std Dev 0

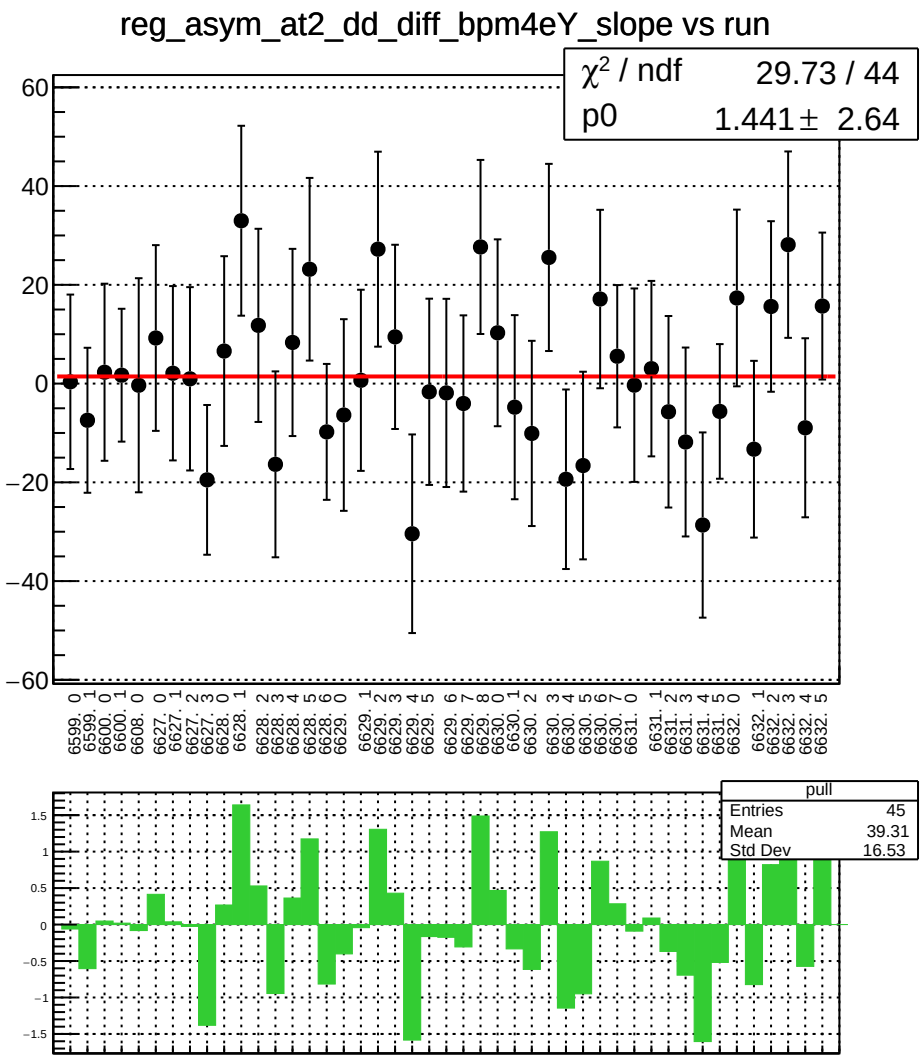

pull1D
Entries 45
Mean −0.04031
Std Dev 1.485

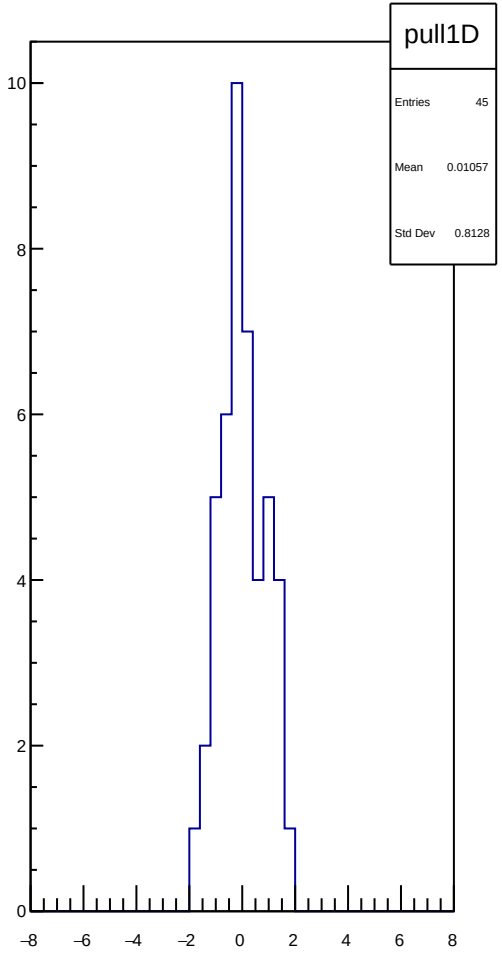

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 31.72 / 44
p0 43.25 ± 3.362
pull
Entries 45
Mean 90.8
Std Dev 0
pull1D
Entries 45
Mean 0.02861
Std Dev 0.8391

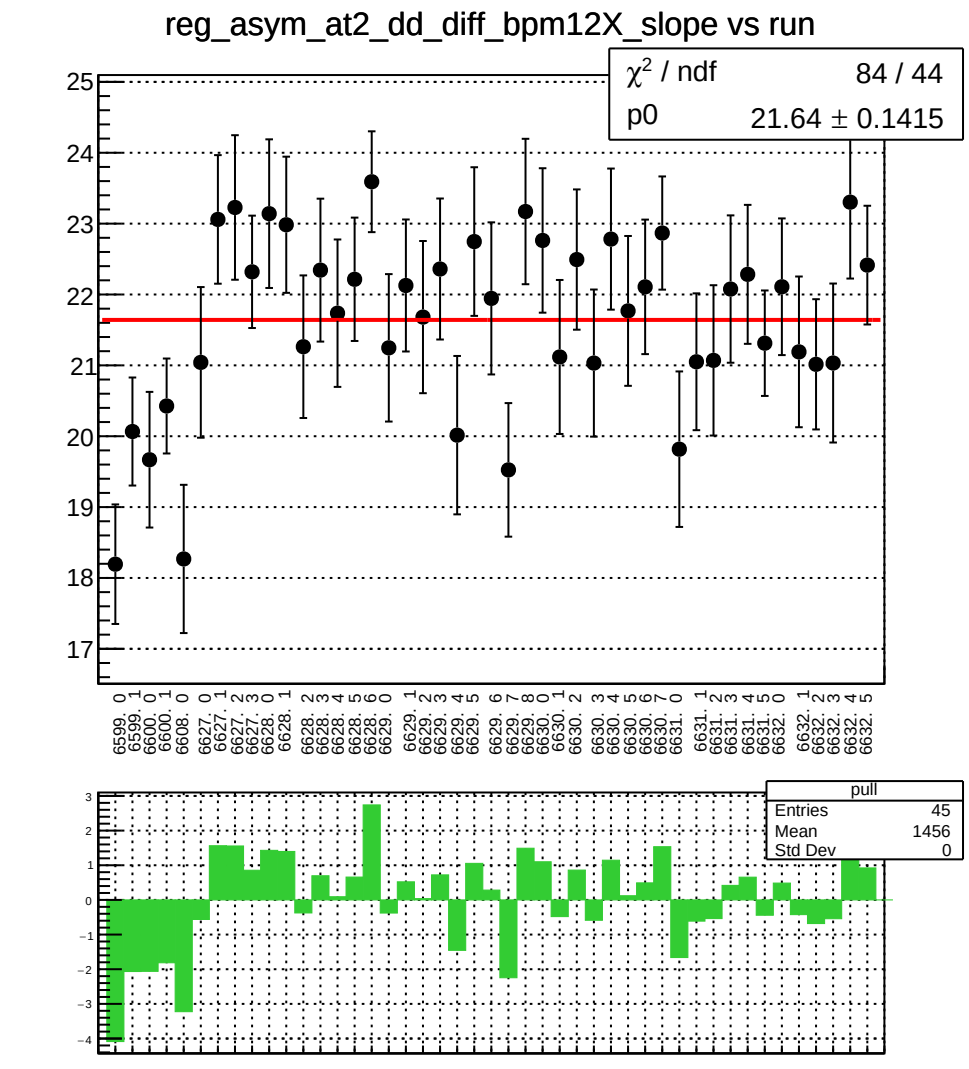

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 29 / 44
p0 −11.11± 2.216
pull
Entries 45
Mean 69.47
Std Dev 0
pull1D
Entries 45
Mean −0.01218
Std Dev 0.8027

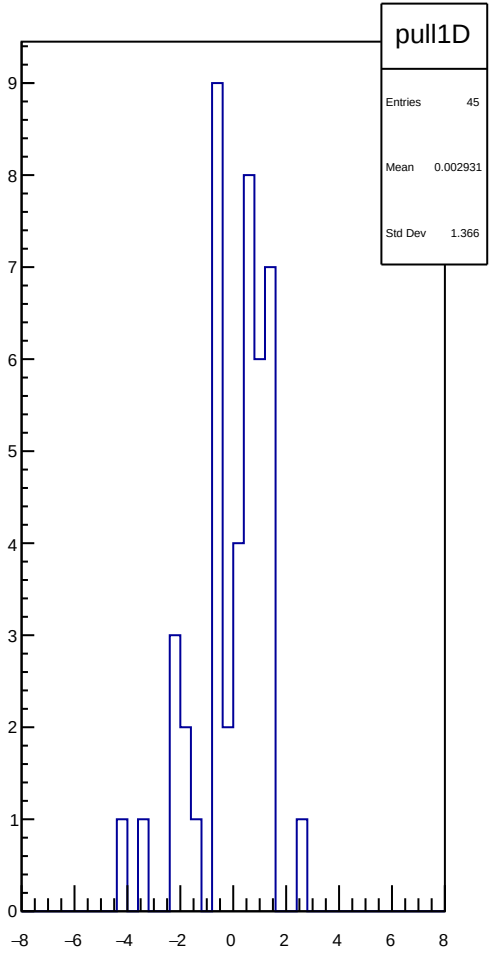

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 31.38 / 44
p0 38.45 ± 3.467
pull
Entries 45
Mean 109.4
Std Dev 0

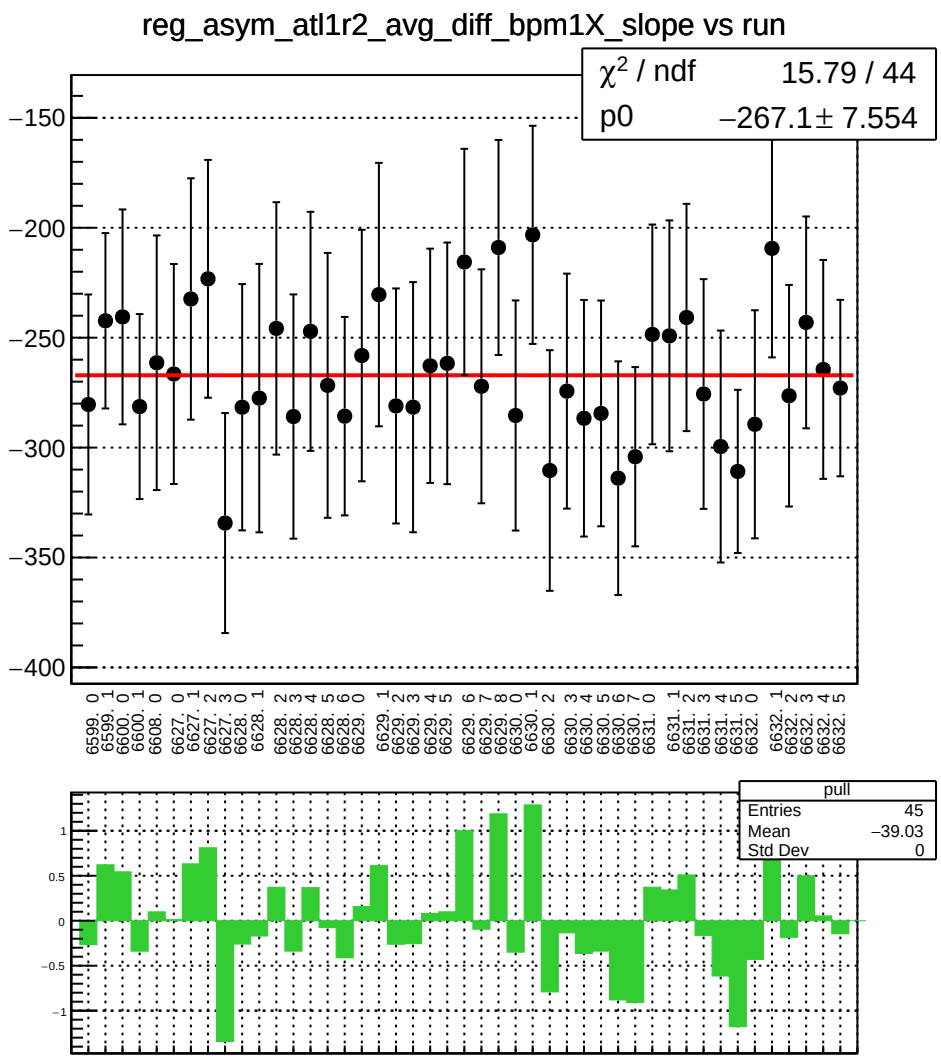

pull1D
Entries 45
Mean −0.02247
Std Dev 0.8348

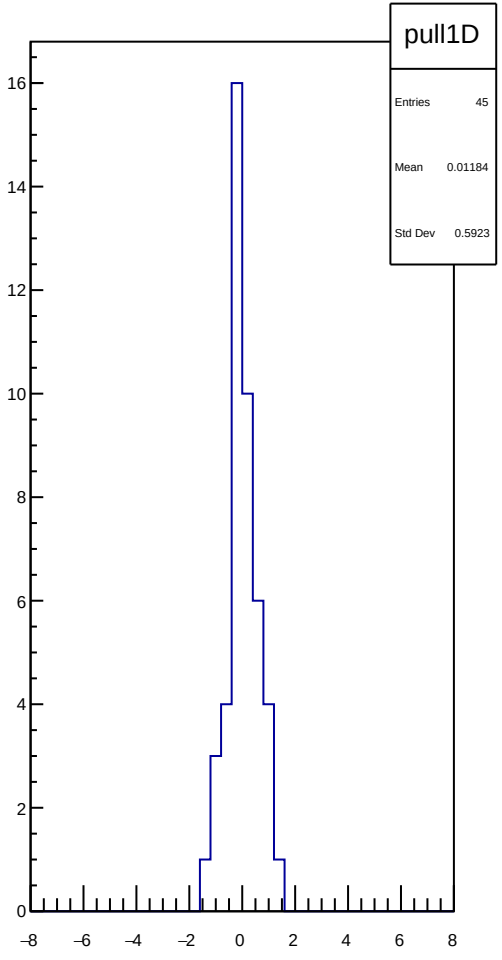

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 29.73 / 44
p0 1.441 ± 2.64
pull
Entries 45
Mean 39.31
Std Dev 16.53

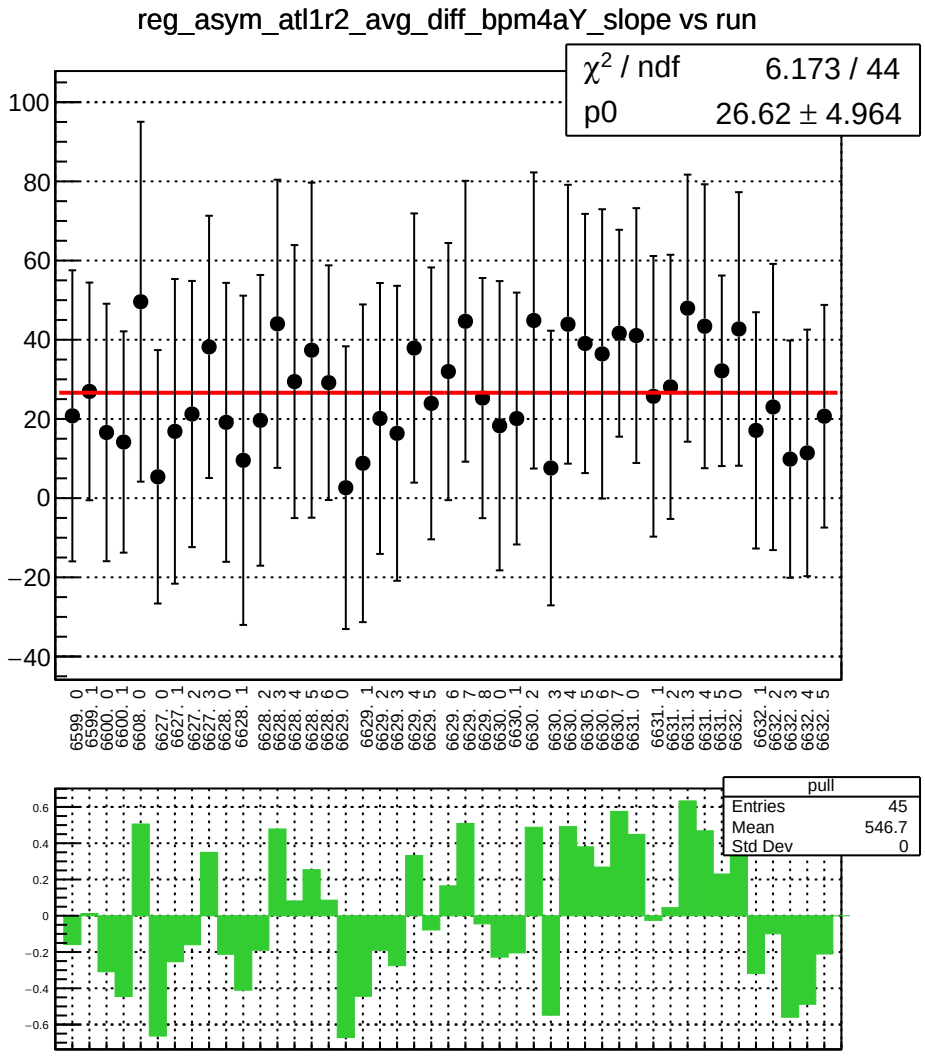

pull1D
Entries 45
Mean 0.01057
Std Dev 0.8128

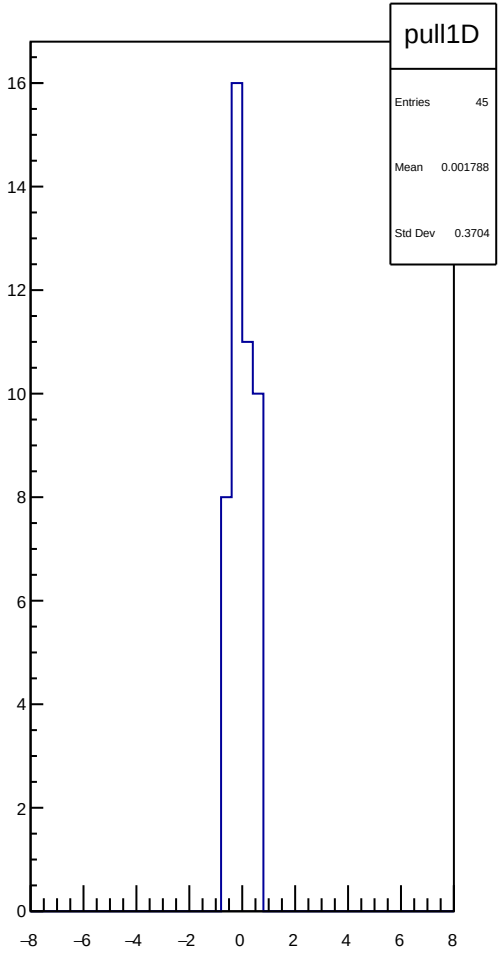

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 84 / 44
p0 21.64 ± 0.1415
pull
Entries 45
Mean 1456
Std Dev 0

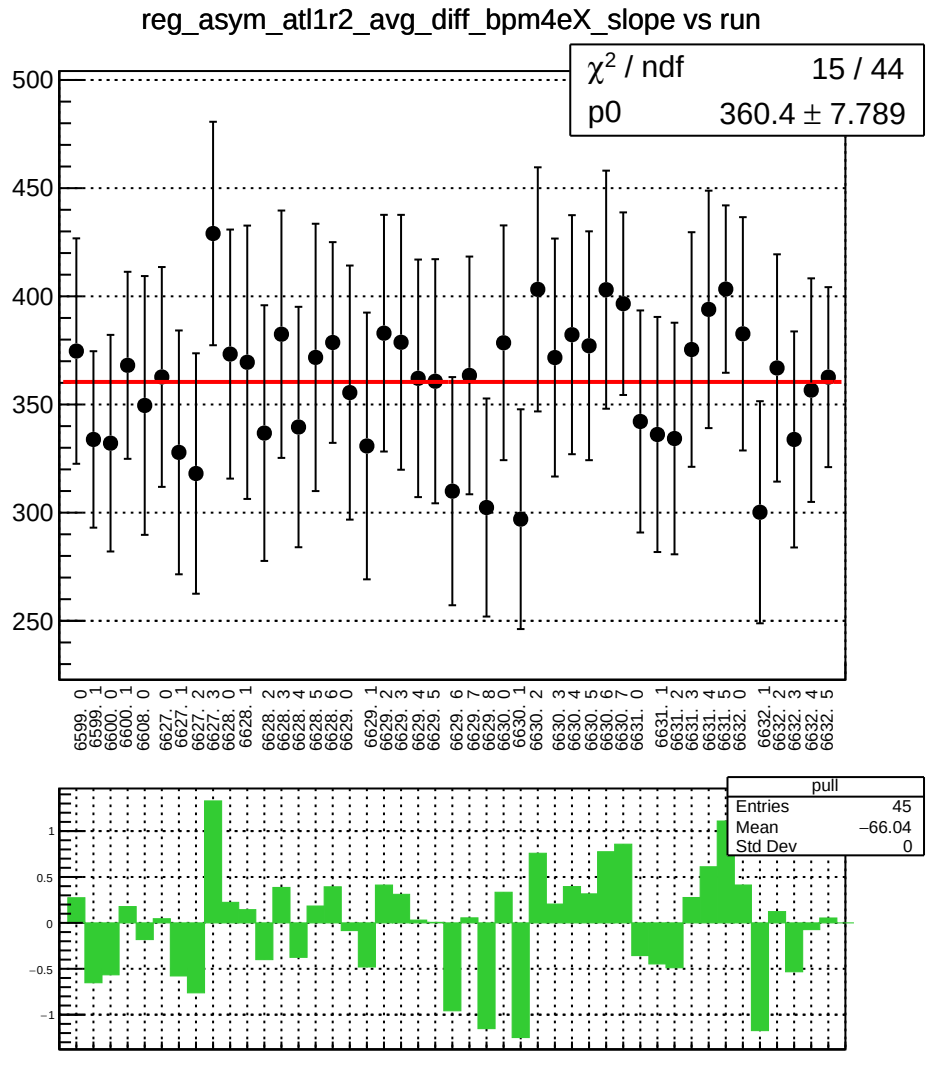

pull1D
Entries 45
Mean 0.002931
Std Dev 1.366

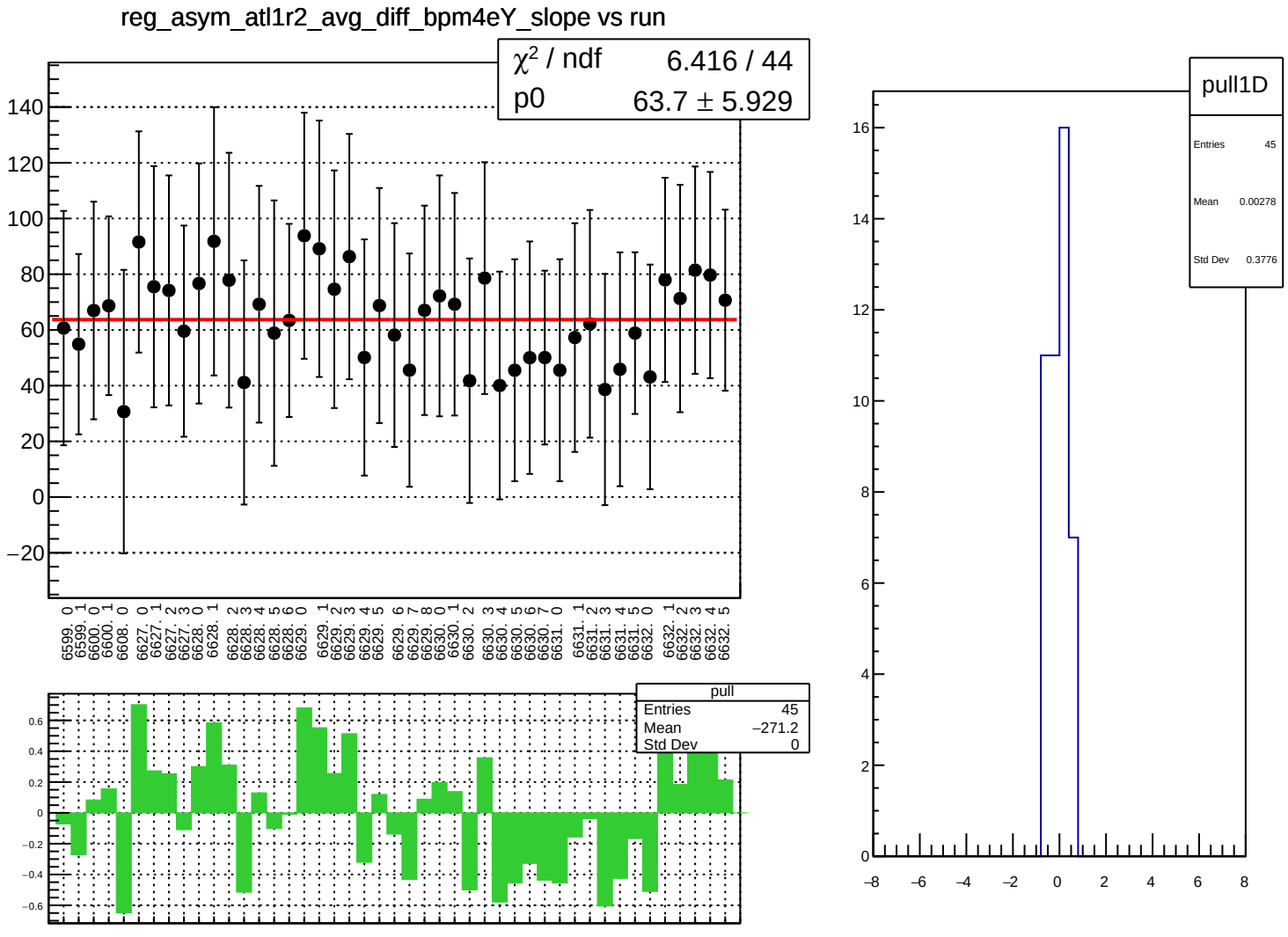

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 15.79 / 44
p0 −267.1± 7.554
−150
−200
−250
−300
−350
−400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −39.03
Std Dev 0
1
0.5
0
−0.5
−1

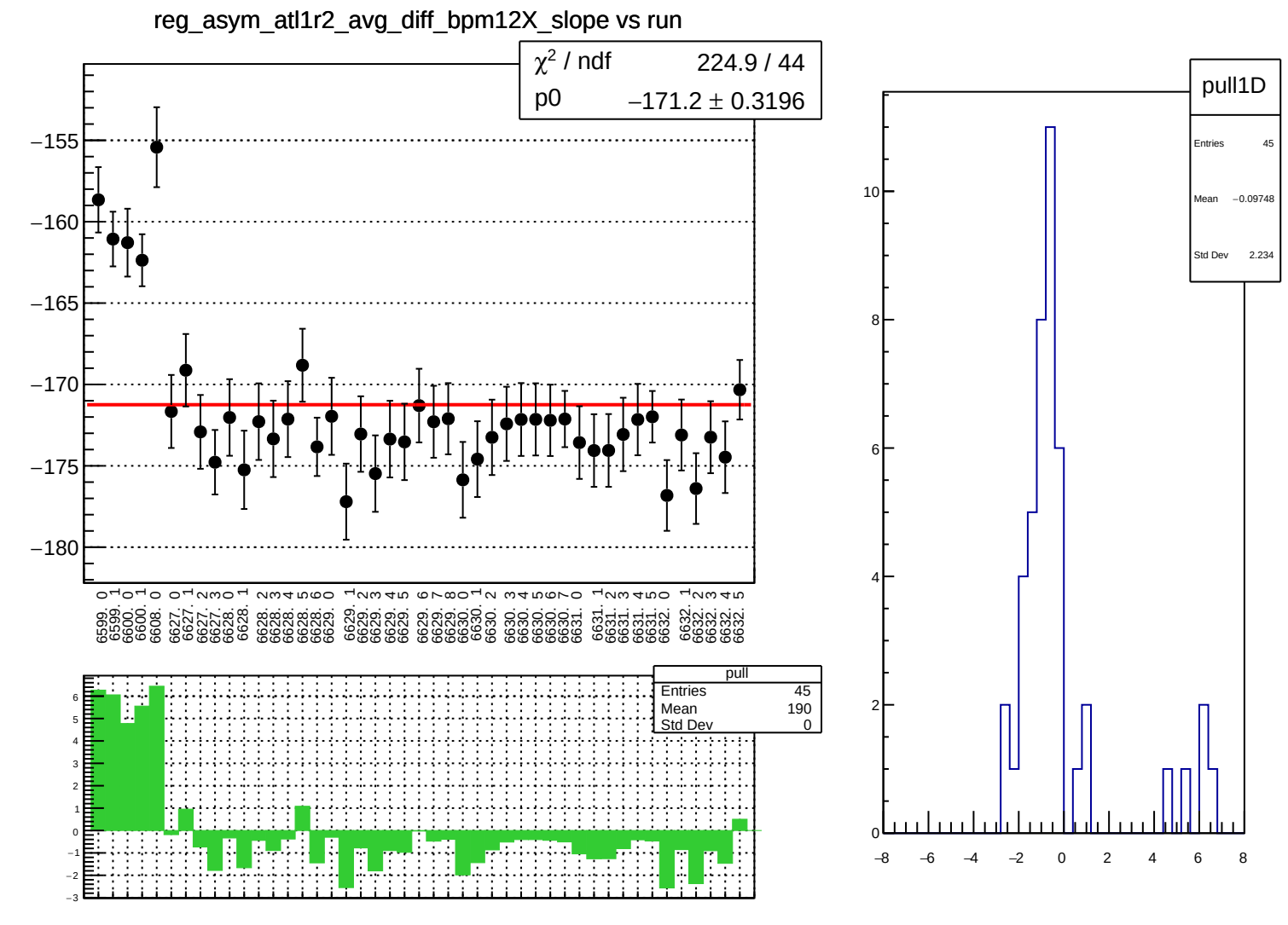

pull1D
Entries 45
Mean 0.01184
Std Dev 0.5923
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

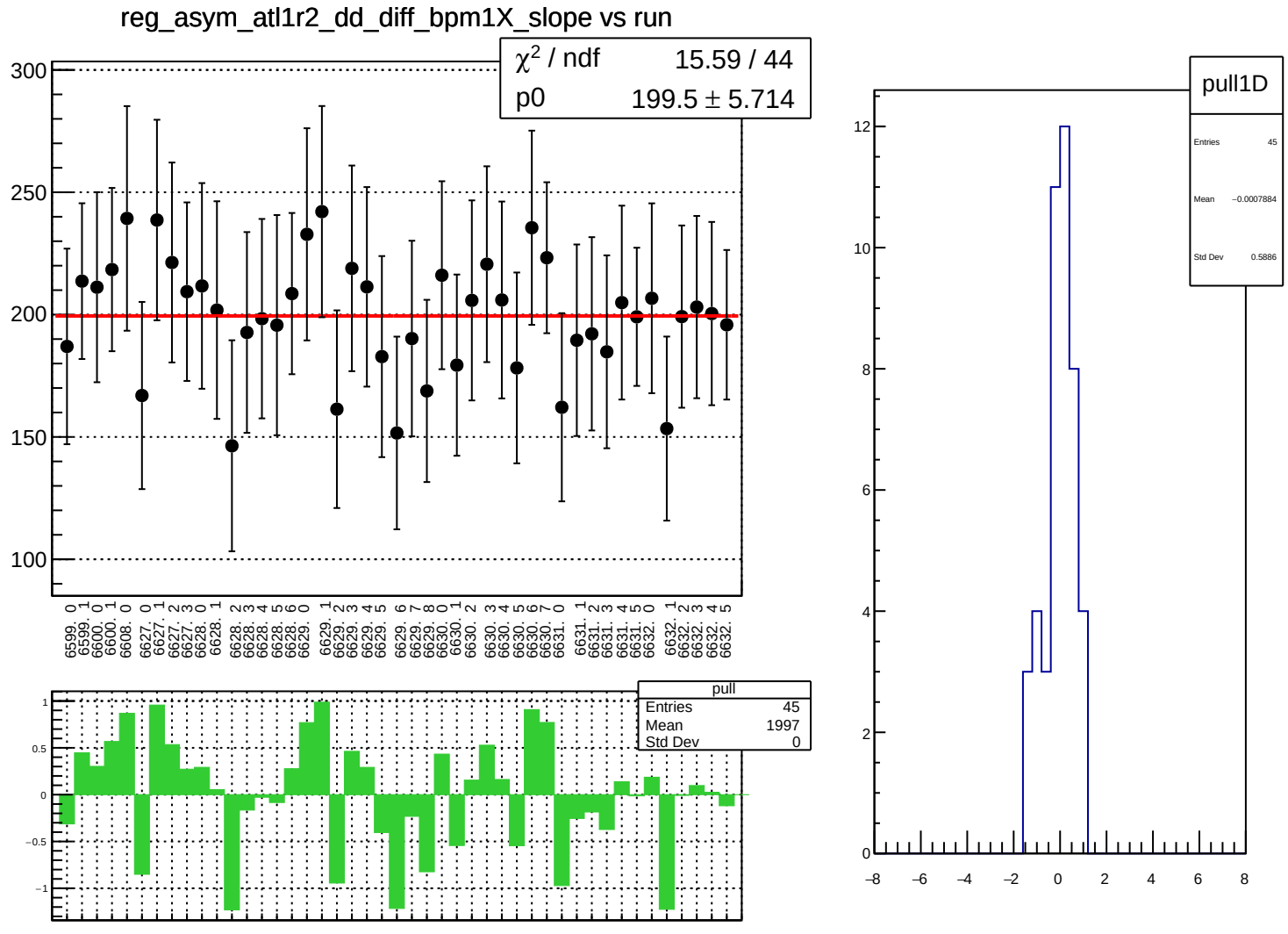

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.173 / 44
p0 26.62 ± 4.964
pull
Entries 45
Mean 546.7
Std Dev 0

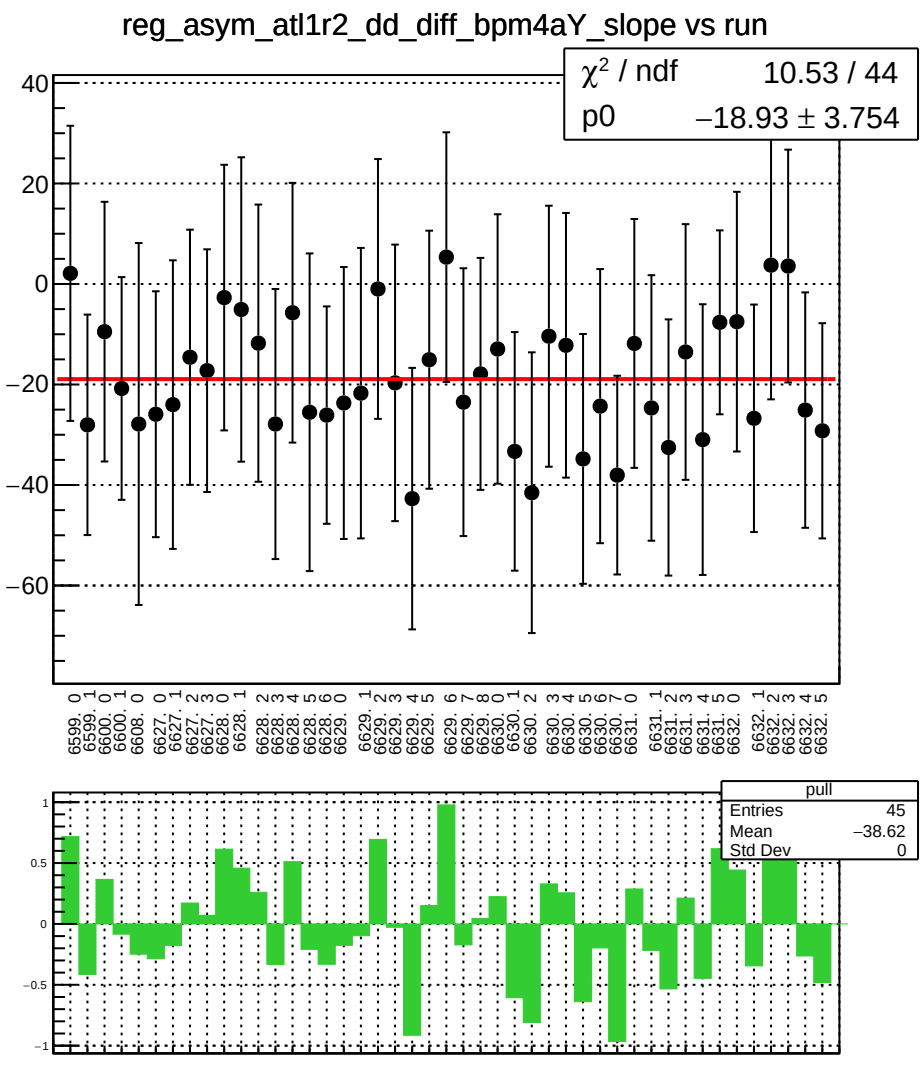

pull1D
Entries 45
Mean 0.001788
Std Dev 0.3704

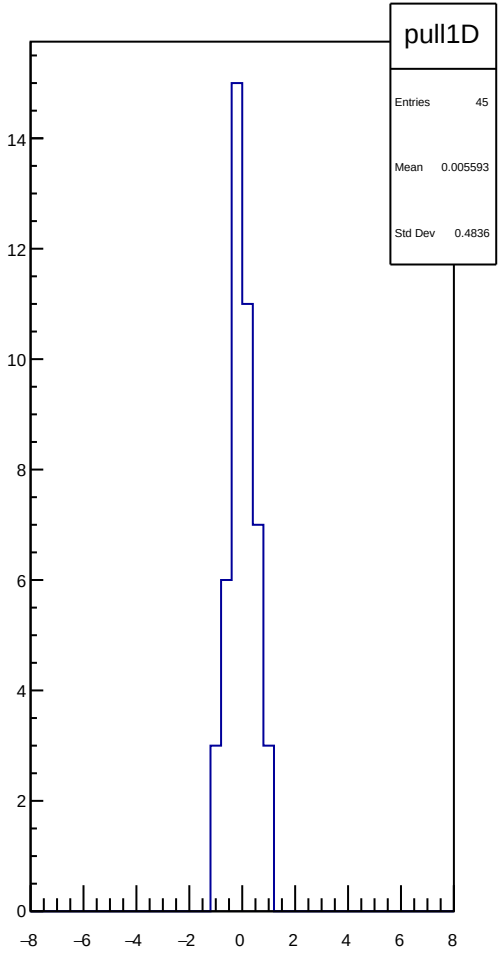

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 15 / 44
p0 360.4 ± 7.789
500
450
400
350
300
250
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −66.04
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.006897
Std Dev 0.5774
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

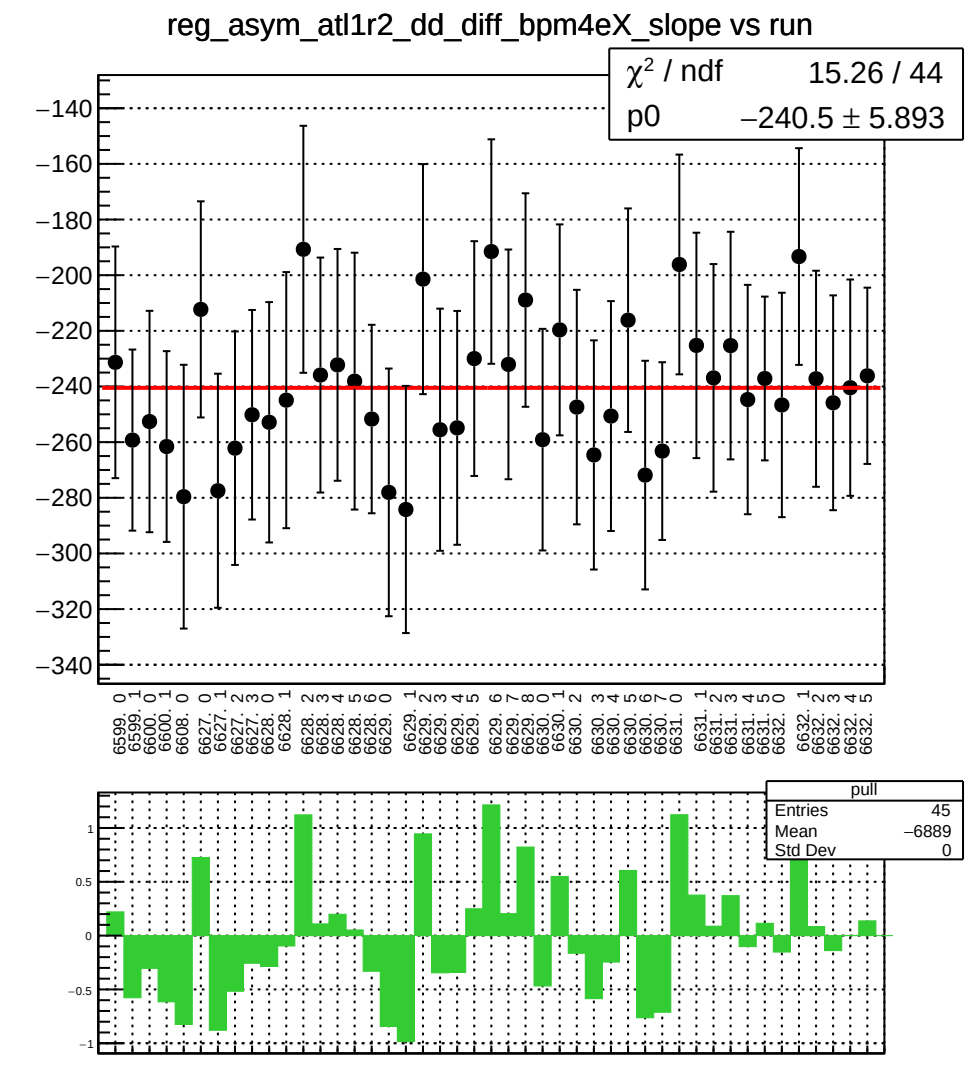

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.416 / 44
p0 63.7 ± 5.929
140
120
100
80
60
40
20
0
−20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −271.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 45
Mean 0.00278
Std Dev 0.3776
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

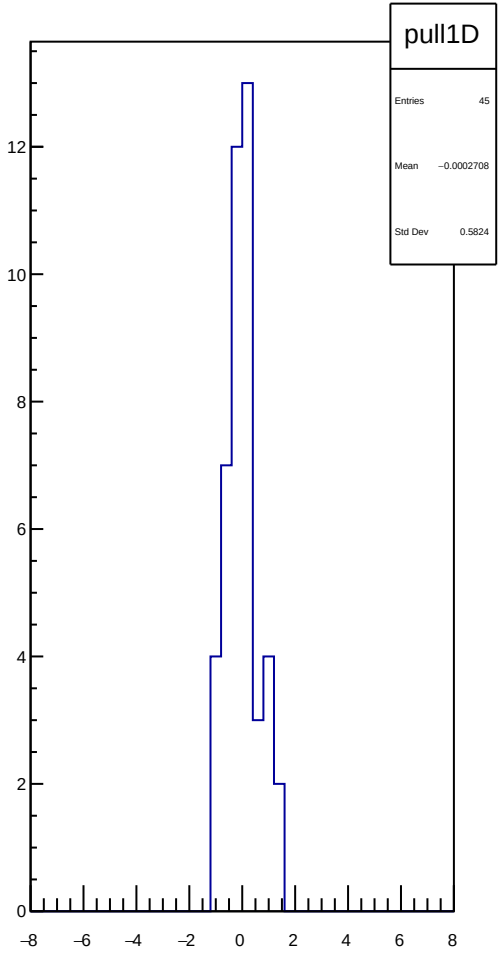

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 224.9 / 44
p0 −171.2 ± 0.3196
−155
−160
−165
−170
−175
−180
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 190
Std Dev 0
6
5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.09748
Std Dev 2.234
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

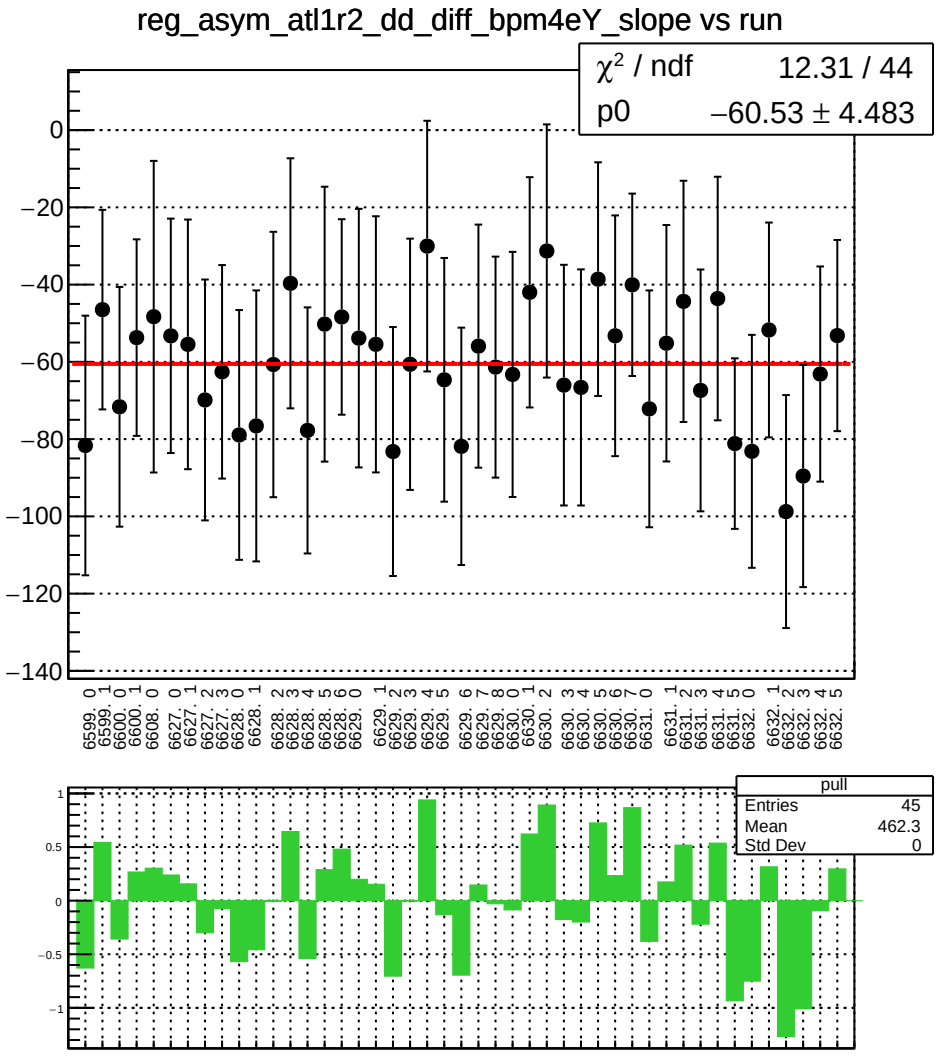

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 15.59 / 44
p0 199.5 ± 5.714
300
250
200
150
100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 1997
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.0007884
Std Dev 0.5886
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

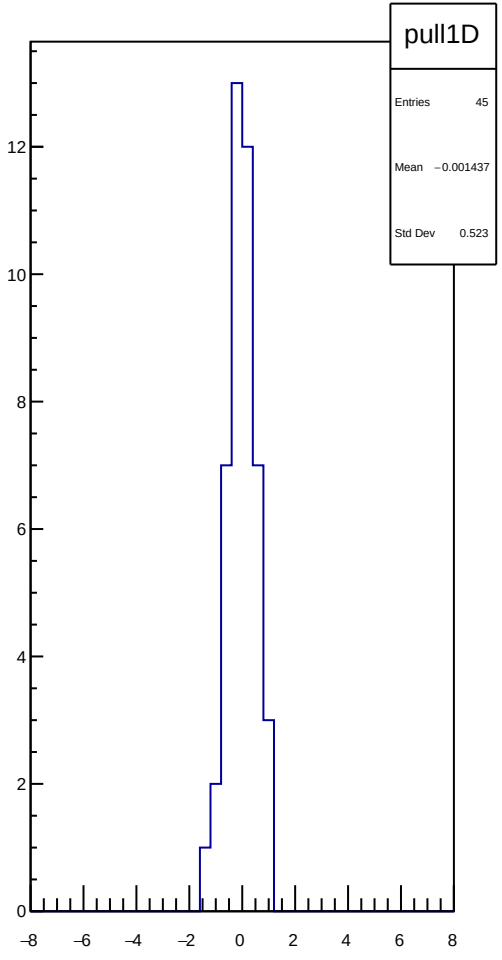

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.53 / 44
p0 −18.93 ± 3.754
pull
Entries 45
Mean −38.62
Std Dev 0

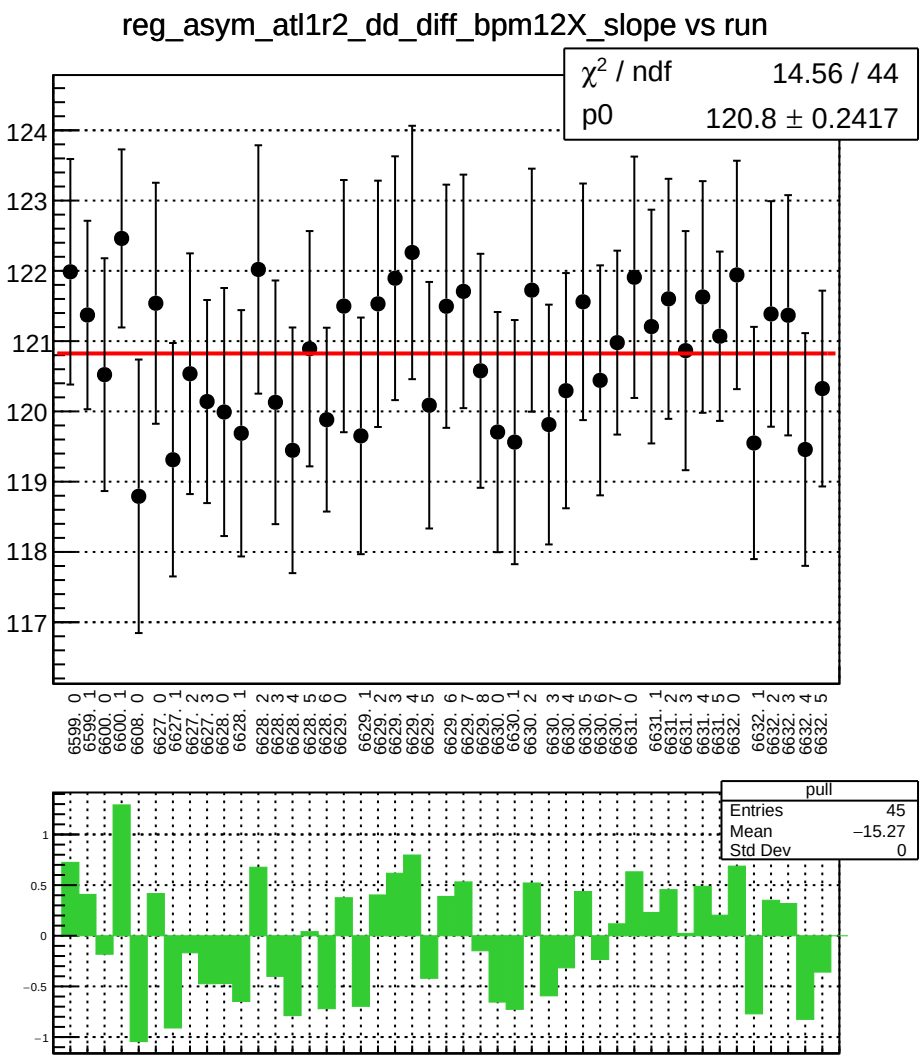

pull1D
Entries 45
Mean 0.005593
Std Dev 0.4836

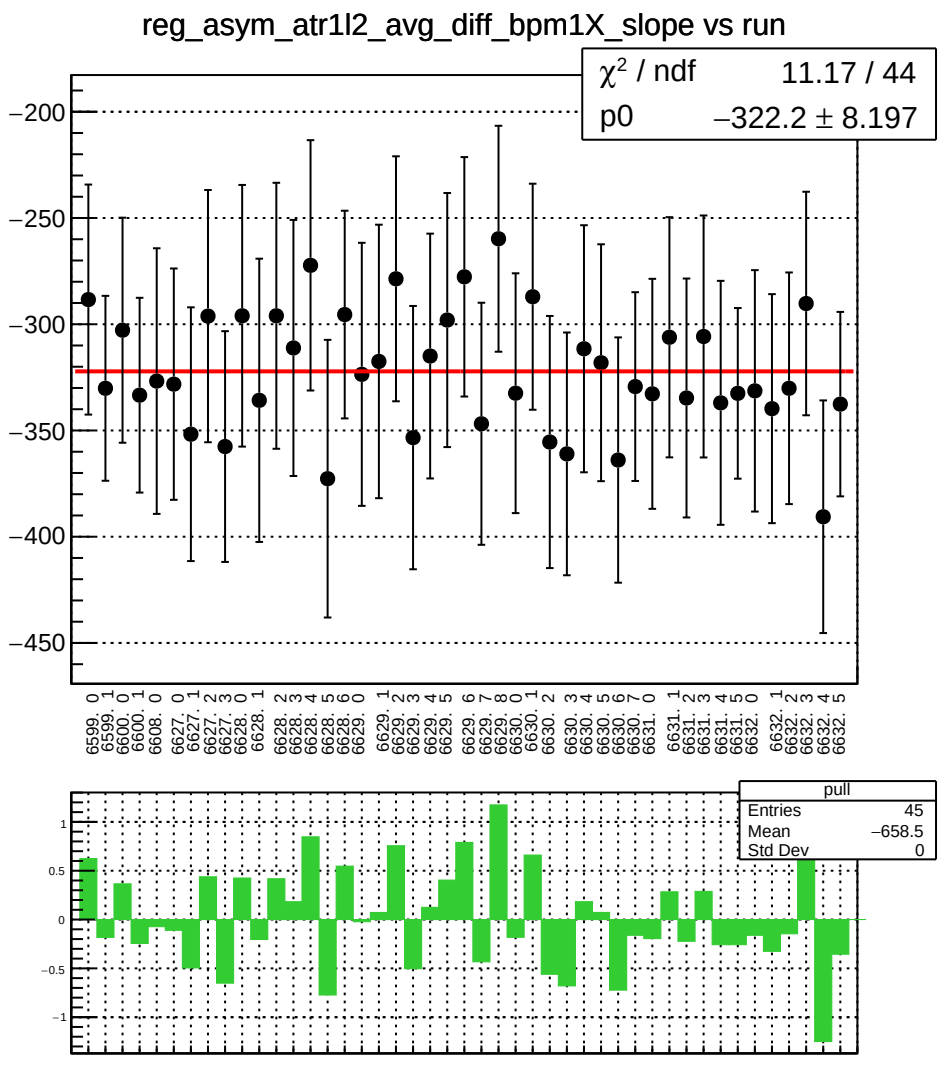

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.26 / 44
p0 −240.5 ± 5.893
pull
Entries 45
Mean −6889
Std Dev 0

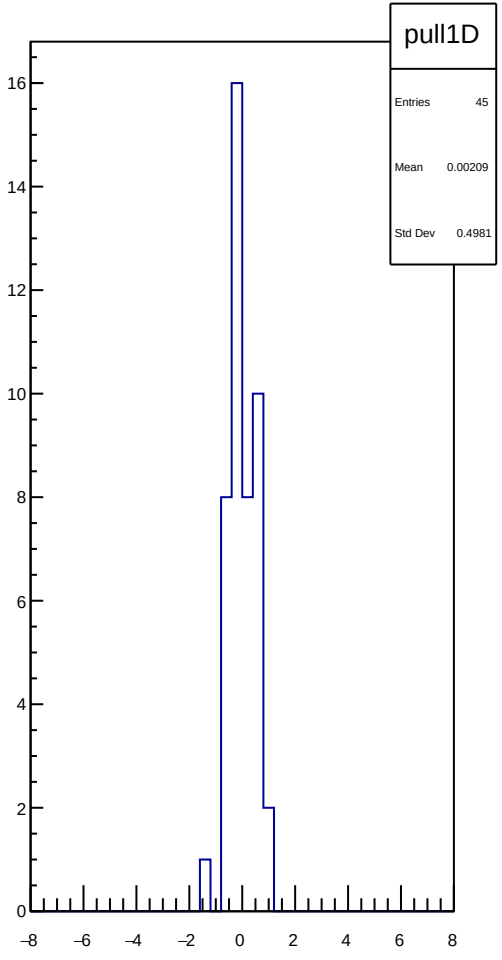

pull1D
Entries 45
Mean −0.0002708
Std Dev 0.5824

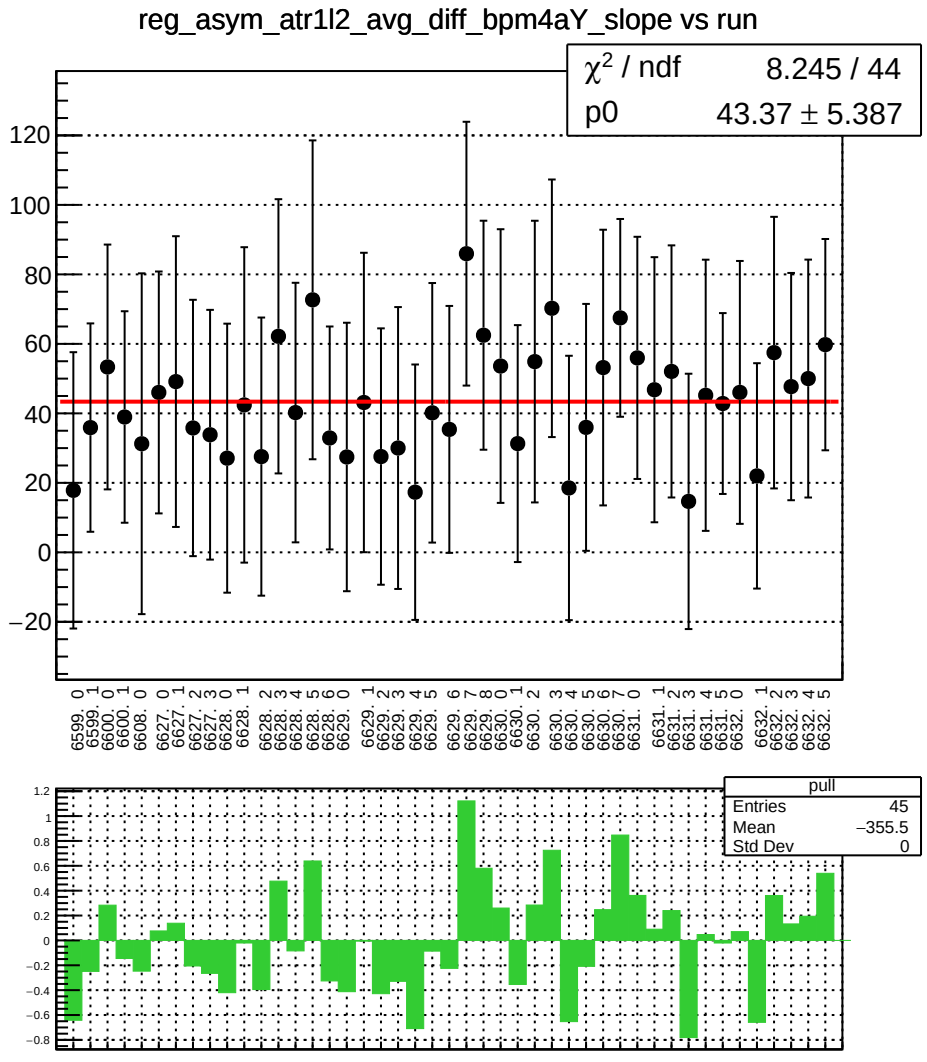

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.31 / 44
p0 −60.53 ± 4.483
pull
Entries 45
Mean 462.3
Std Dev 0

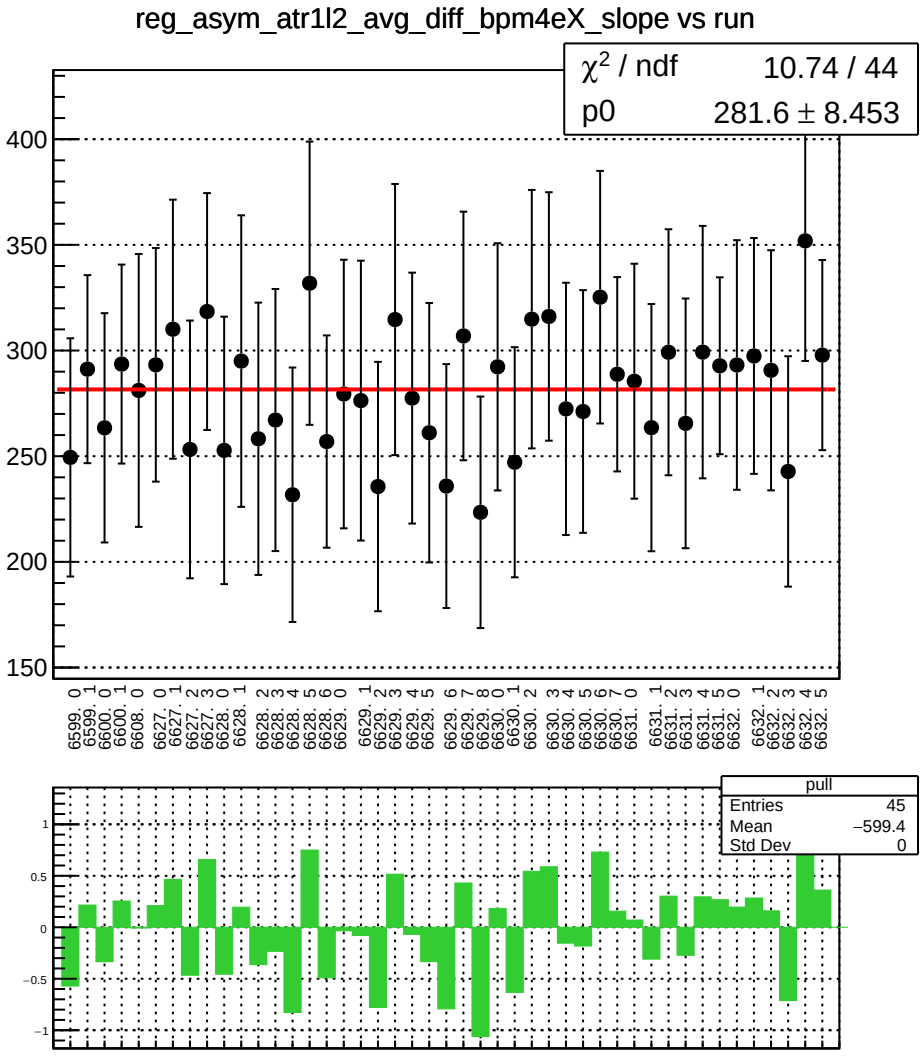

pull1D
Entries 45
Mean −0.001437
Std Dev 0.523

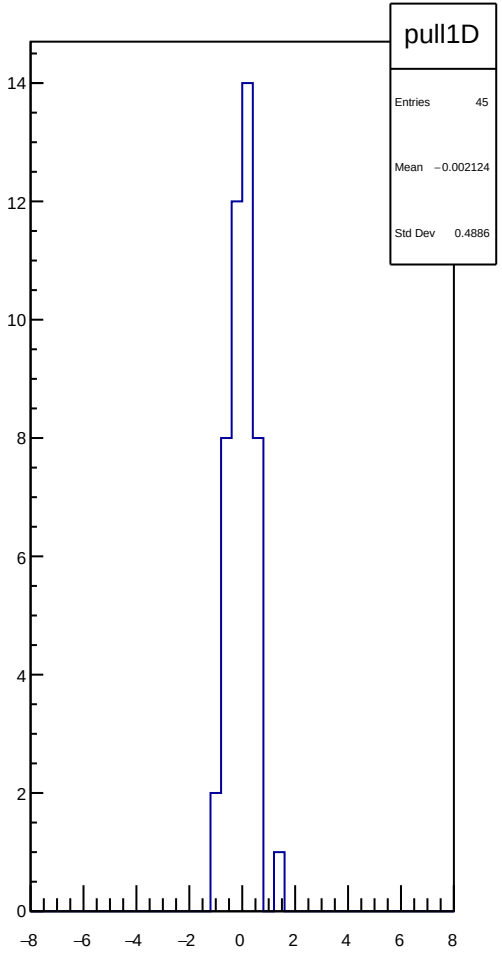

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 14.56 / 44
p0 120.8 ± 0.2417
124
123
122
121
120
119
118
117
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −15.27
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.009311
Std Dev 0.5687
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

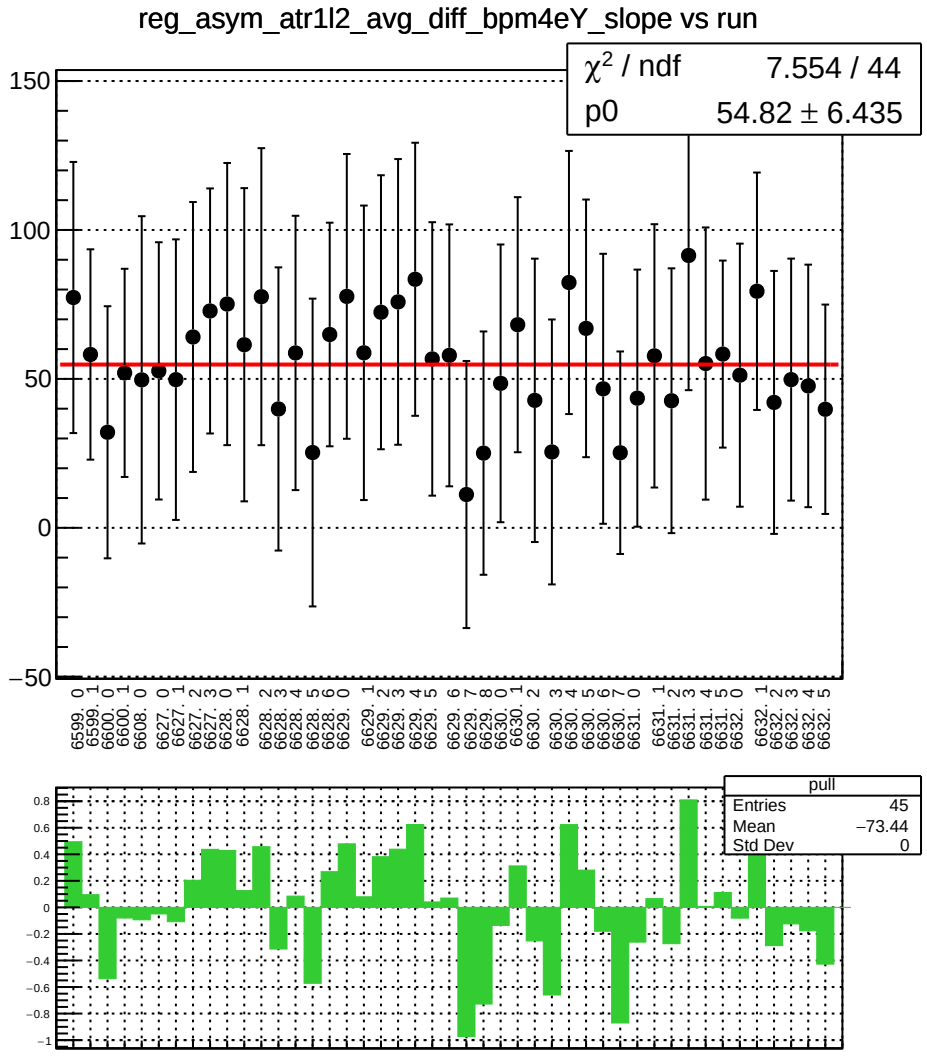

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 11.17 / 44
p0 −322.2 ± 8.197
−200
−250
−300
−350
−400
−450
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −658.5
Std Dev 0
1
0.5
0
−0.5
−1

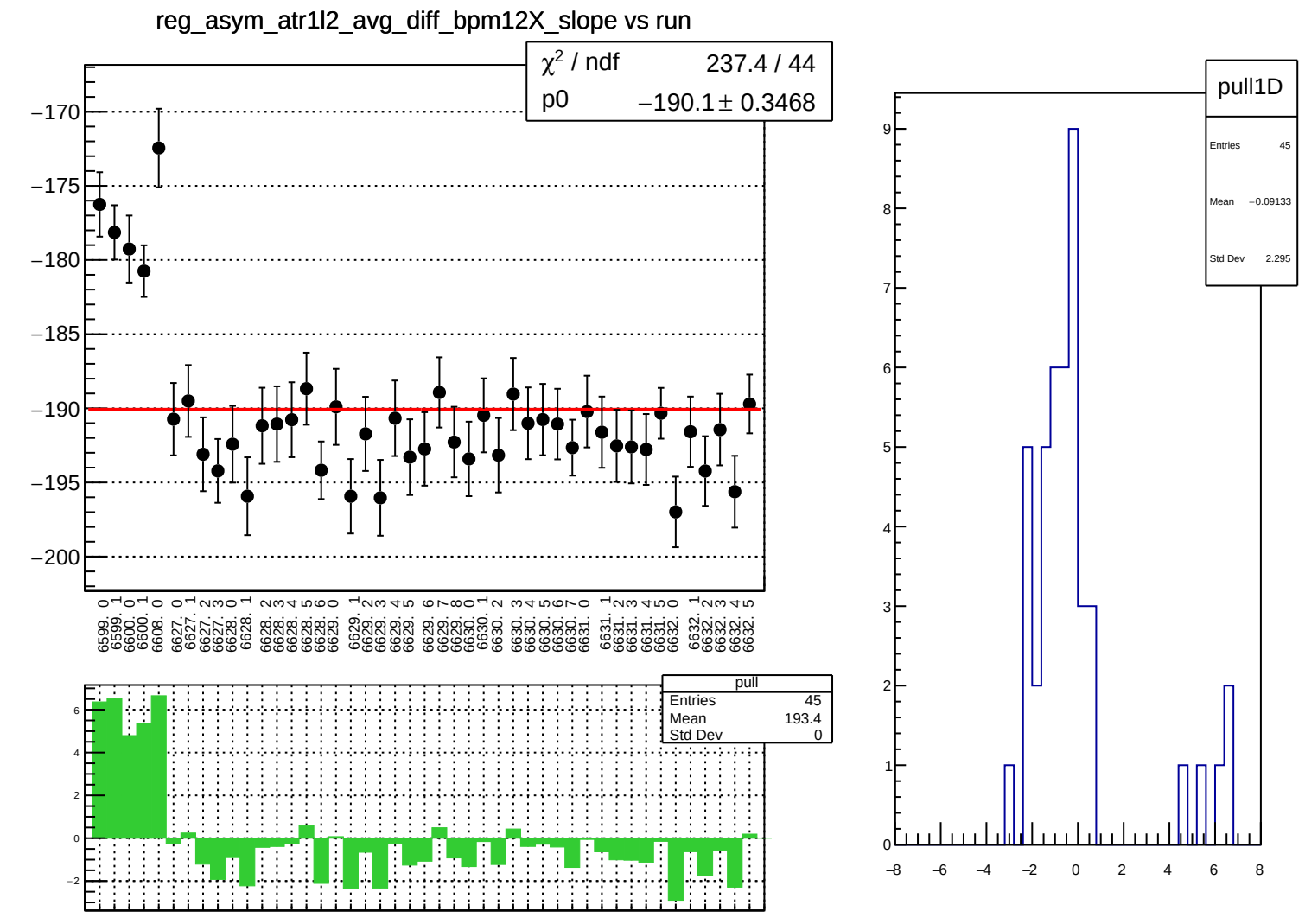

pull1D
Entries 45
Mean 0.00209
Std Dev 0.4981
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

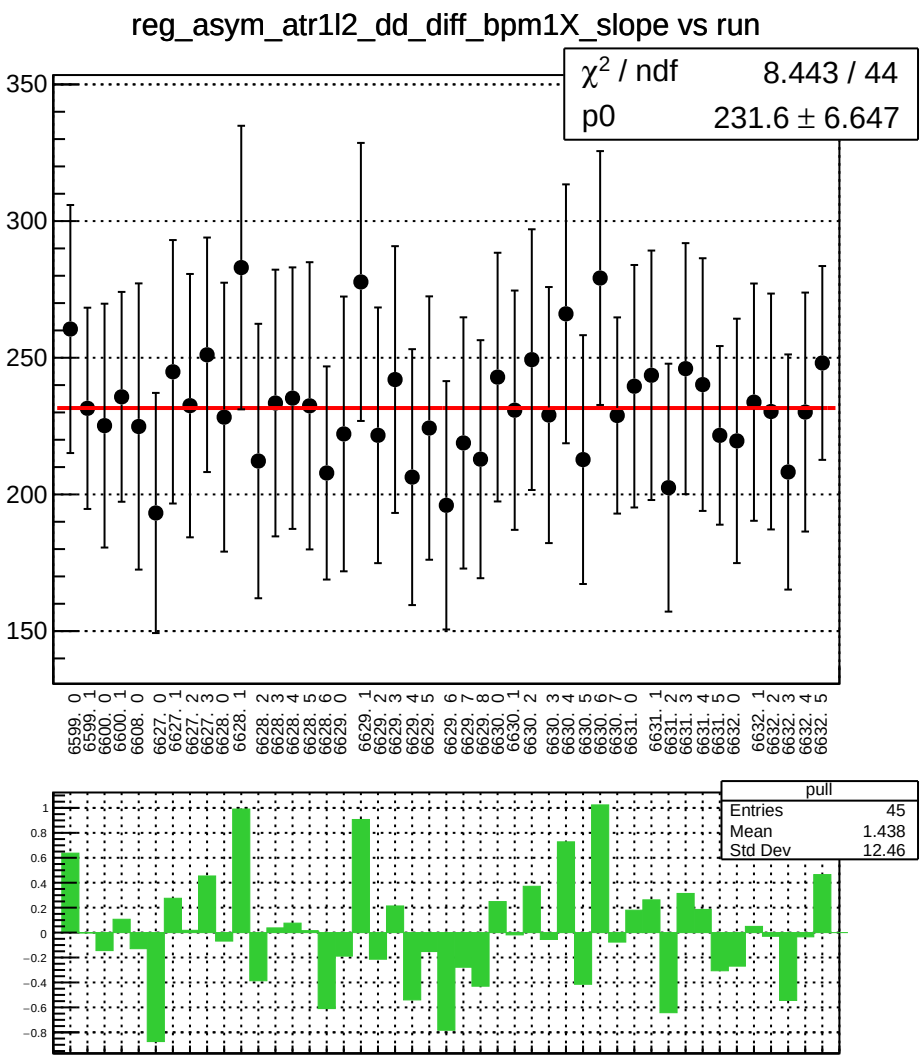

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.245 / 44
p0 43.37 ± 5.387
pull
Entries 45
Mean −355.5
Std Dev 0
pull1D
Entries 45
Mean −0.003432
Std Dev 0.428

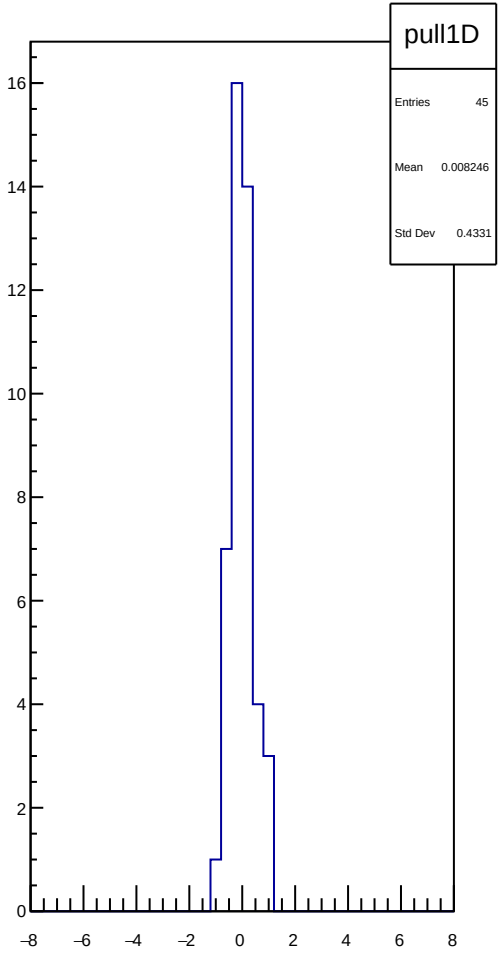

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.74 / 44
p0 281.6 ± 8.453
pull
Entries 45
Mean −599.4
Std Dev 0

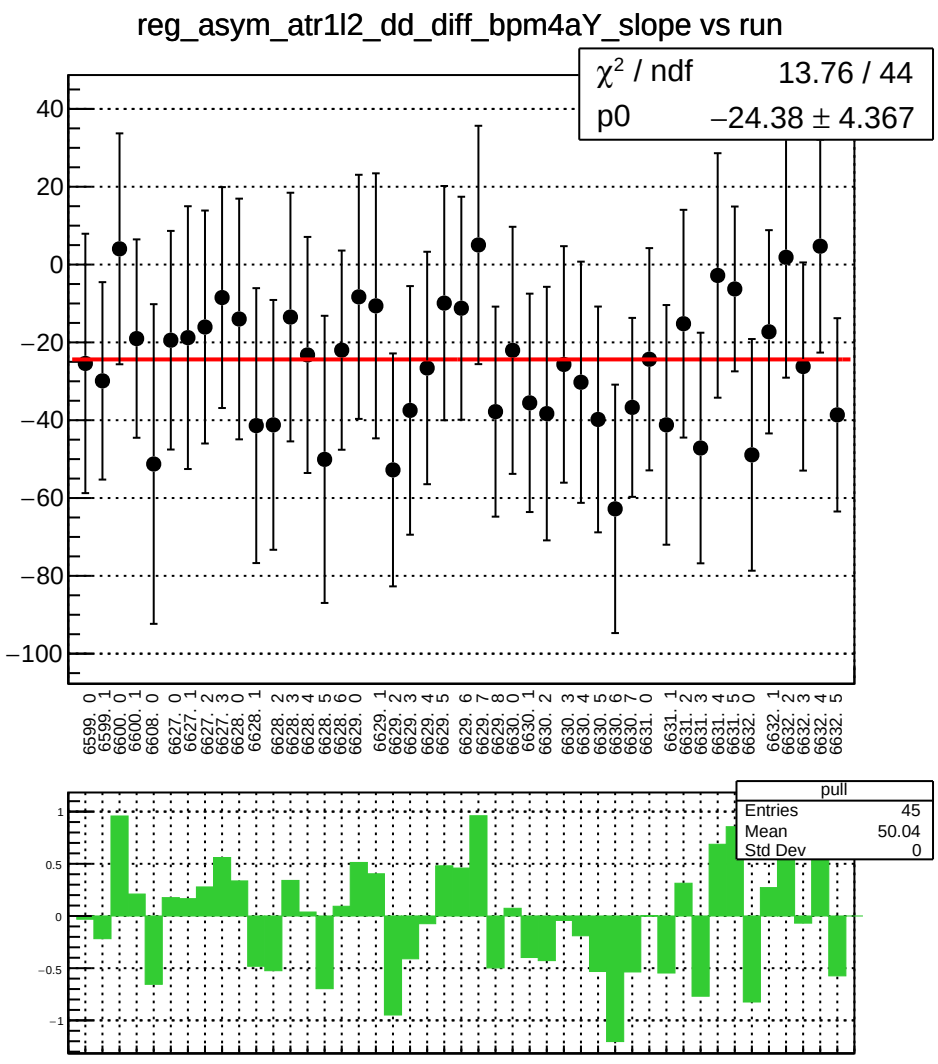

pull1D
Entries 45
Mean −0.002124
Std Dev 0.4886

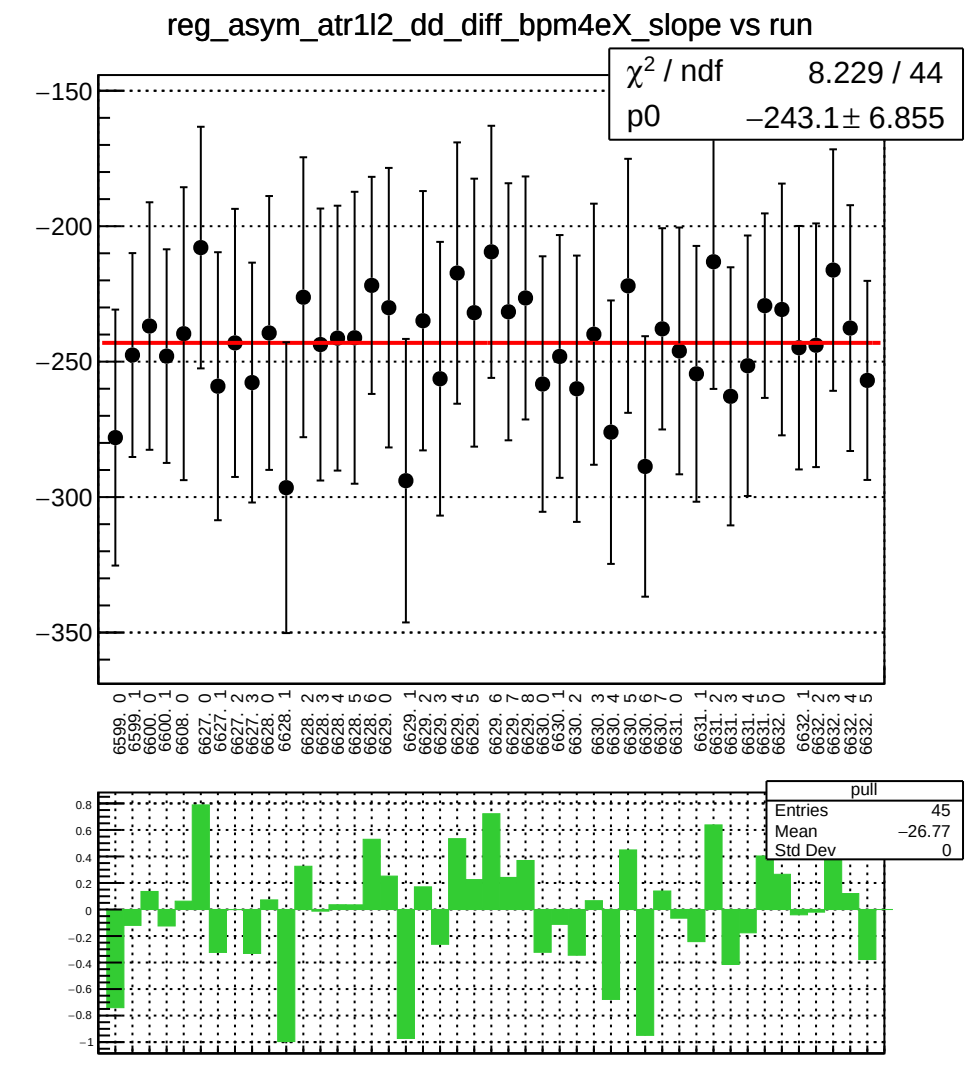

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.554 / 44
p0 54.82 ± 6.435
150
100
50
0
−50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −73.44
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 45
Mean 0.007935
Std Dev 0.4096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

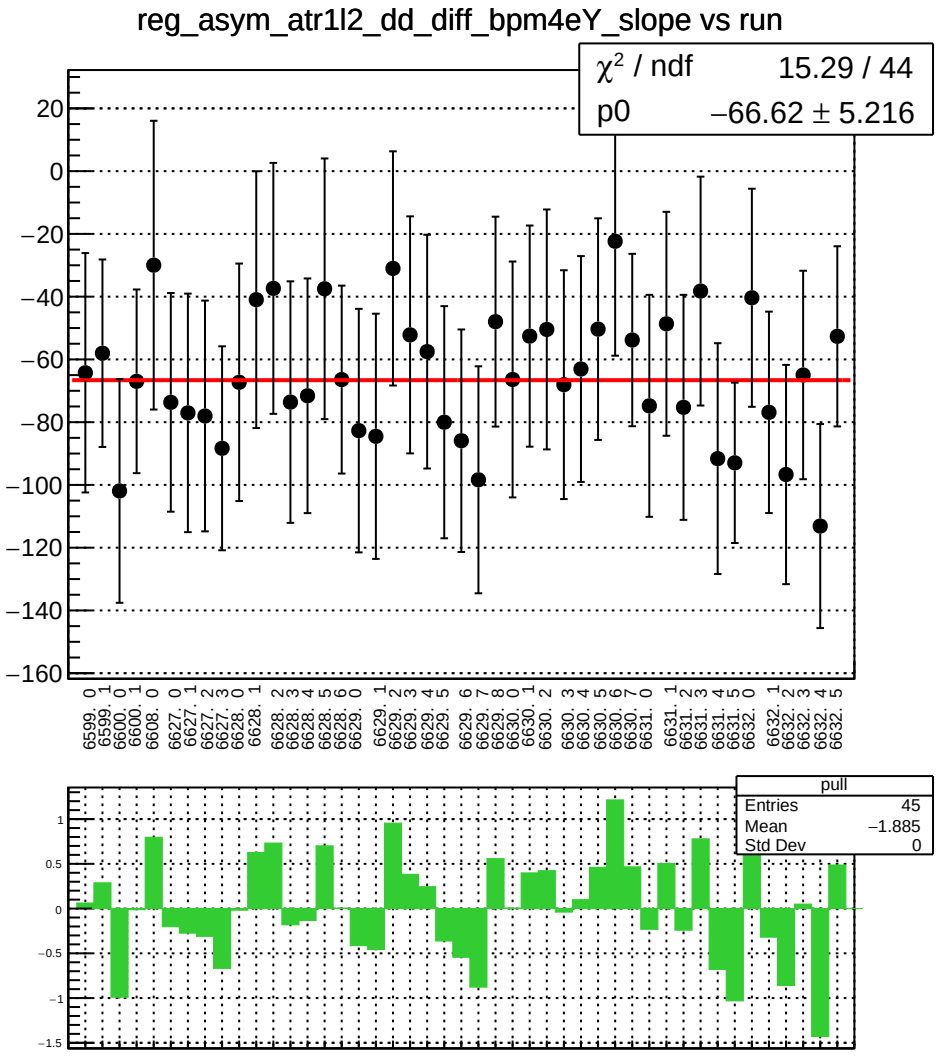

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 237.4 / 44
p0 −190.1 ± 0.3468
−170
−175
−180
−185
−190
−195
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 193.4
Std Dev 0
6
4
2
0
−2
pull1D
Entries 45
Mean −0.09133
Std Dev 2.295
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

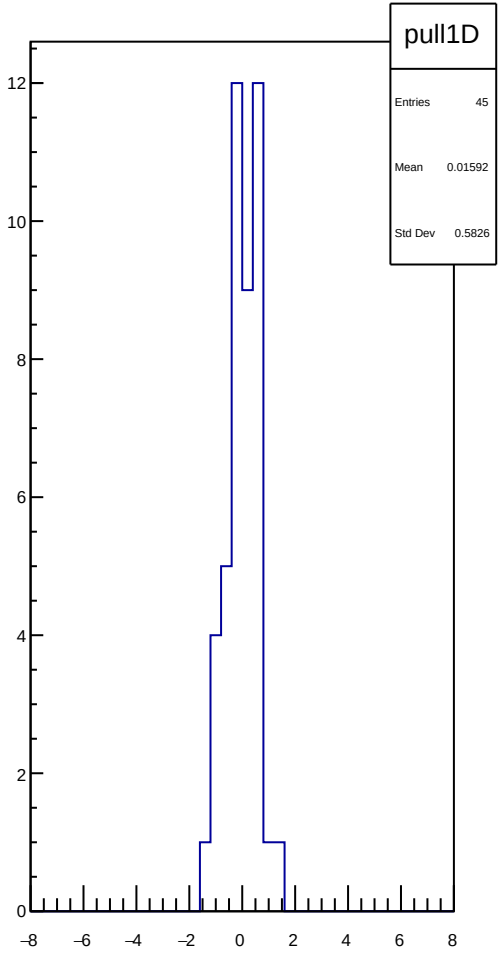

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 8.443 / 44
p0 231.6 ± 6.647
350
300
250
200
150
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 1.438
Std Dev 12.46
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

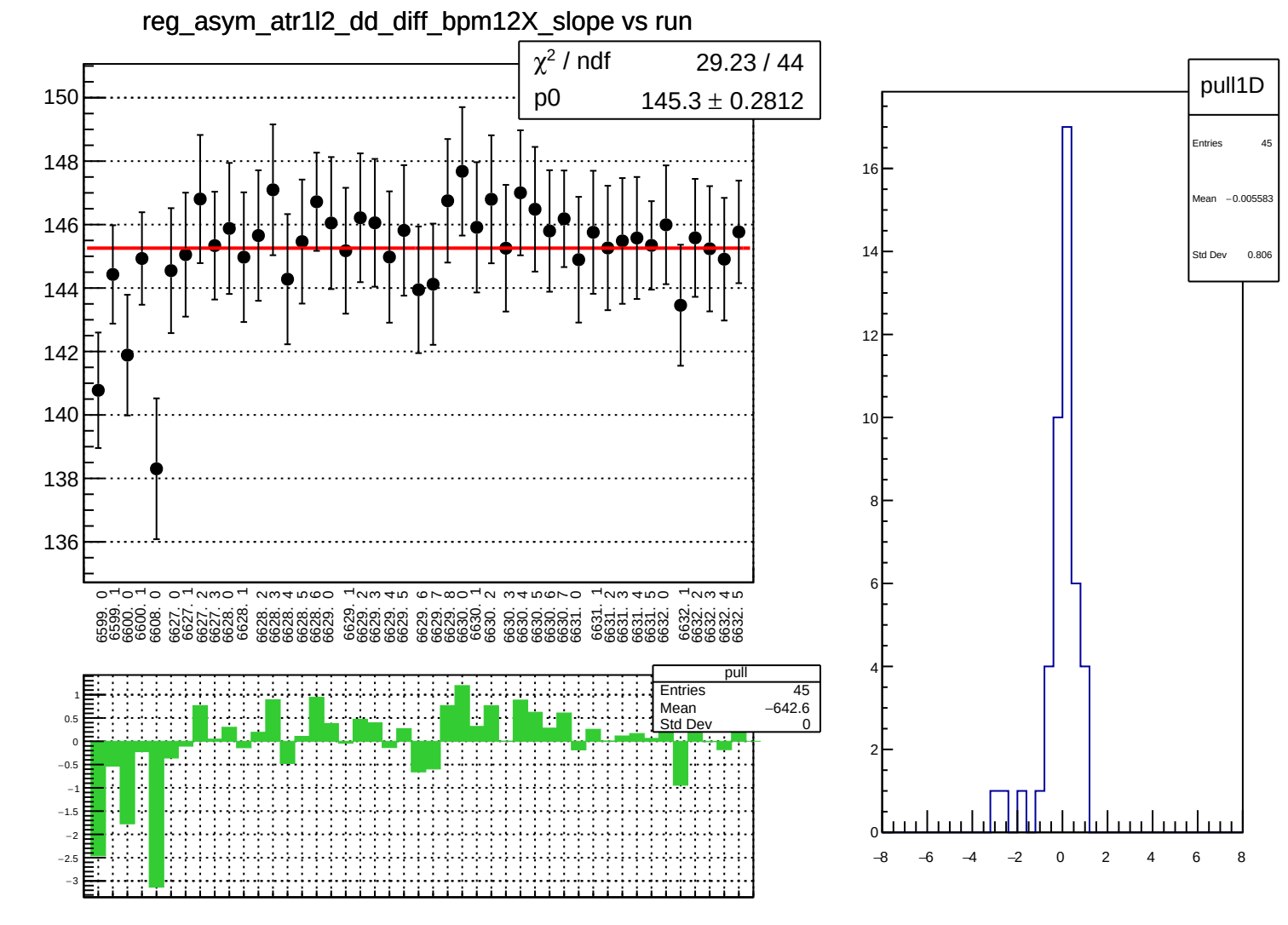

pull1D
Entries 45
Mean 0.008246
Std Dev 0.4331
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

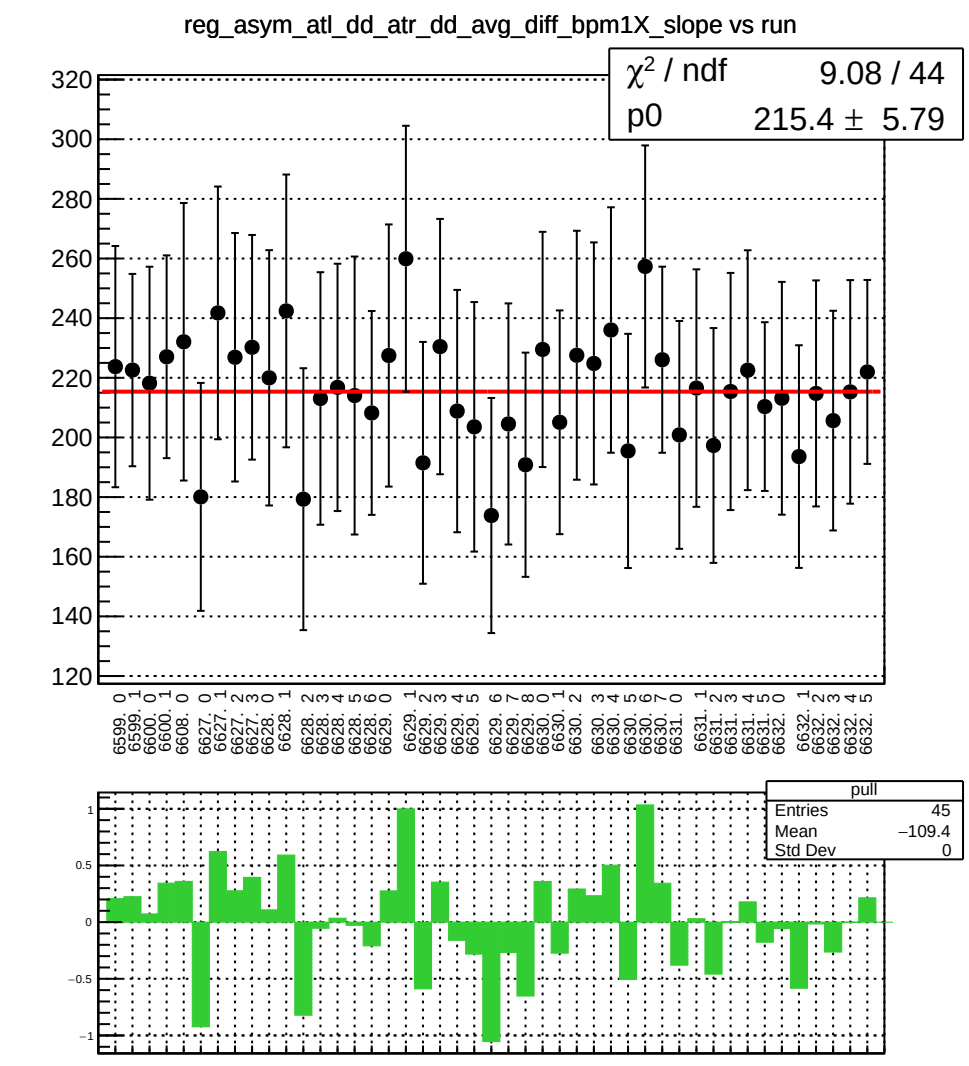

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.76 / 44
p0 −24.38 ± 4.367
pull
Entries 45
Mean 50.04
Std Dev 0
pull1D
Entries 45
Mean −0.01232
Std Dev 0.5528

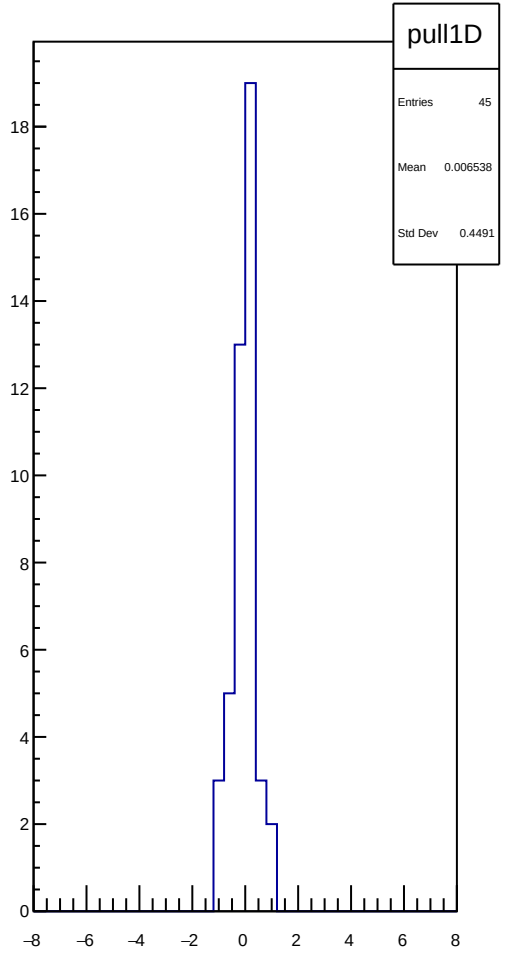

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.229 / 44
p0 −243.1± 6.855
−150
−200
−250
−300
−350
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −26.77
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 45
Mean −0.009675
Std Dev 0.4275
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

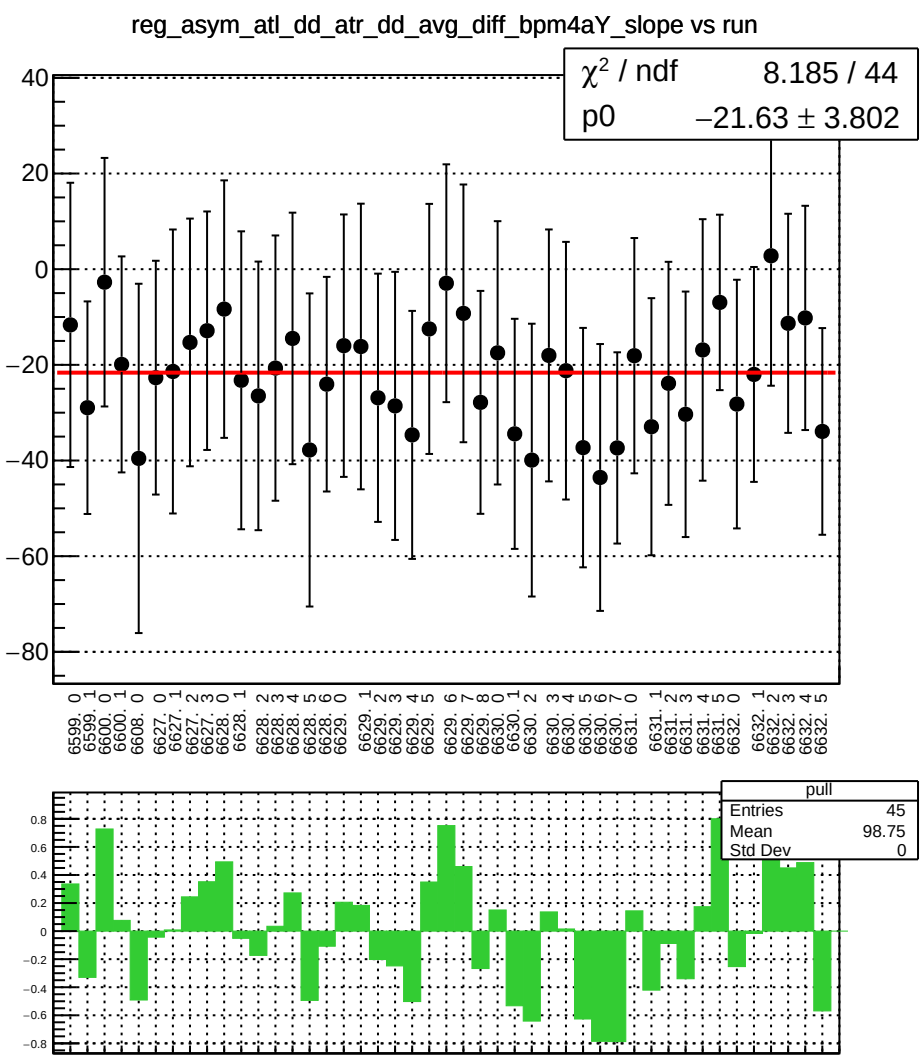

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.29 / 44
p0 −66.62 ± 5.216
pull
Entries 45
Mean −1.885
Std Dev 0

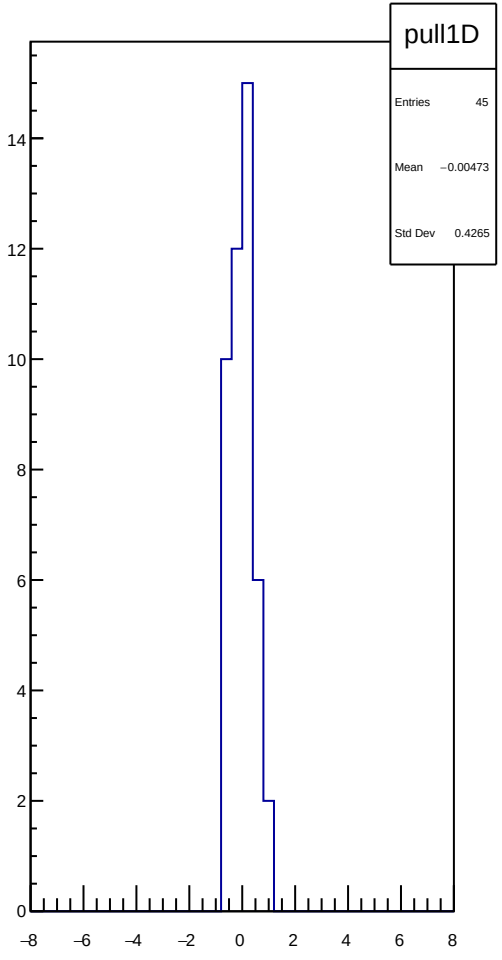

pull1D
Entries 45
Mean 0.01592
Std Dev 0.5826

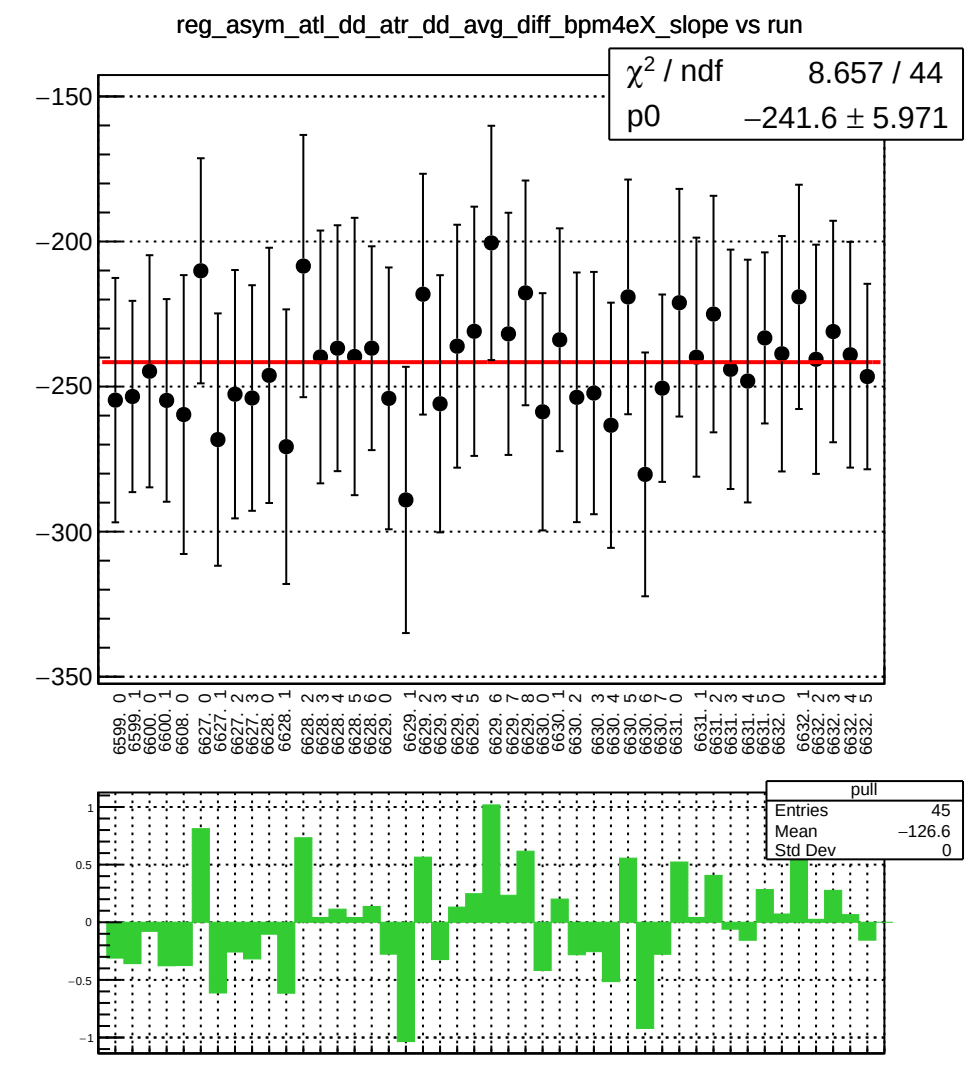

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 29.23 / 44
p0 145.3 ± 0.2812
150
148
146
144
142
140
138
136
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −642.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 45
Mean −0.005583
Std Dev 0.806
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

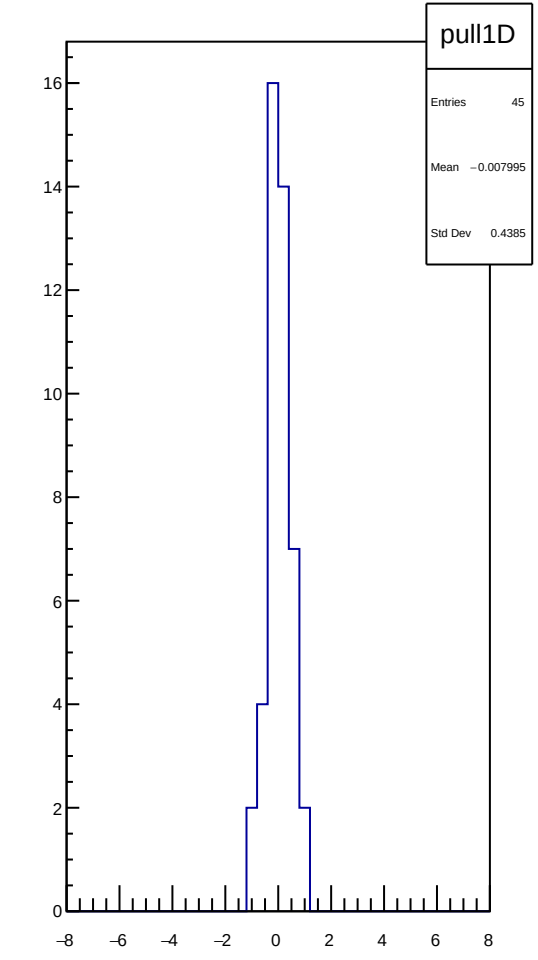

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 9.08 / 44
p0 215.4 ± 5.79
pull
Entries 45
Mean −109.4
Std Dev 0

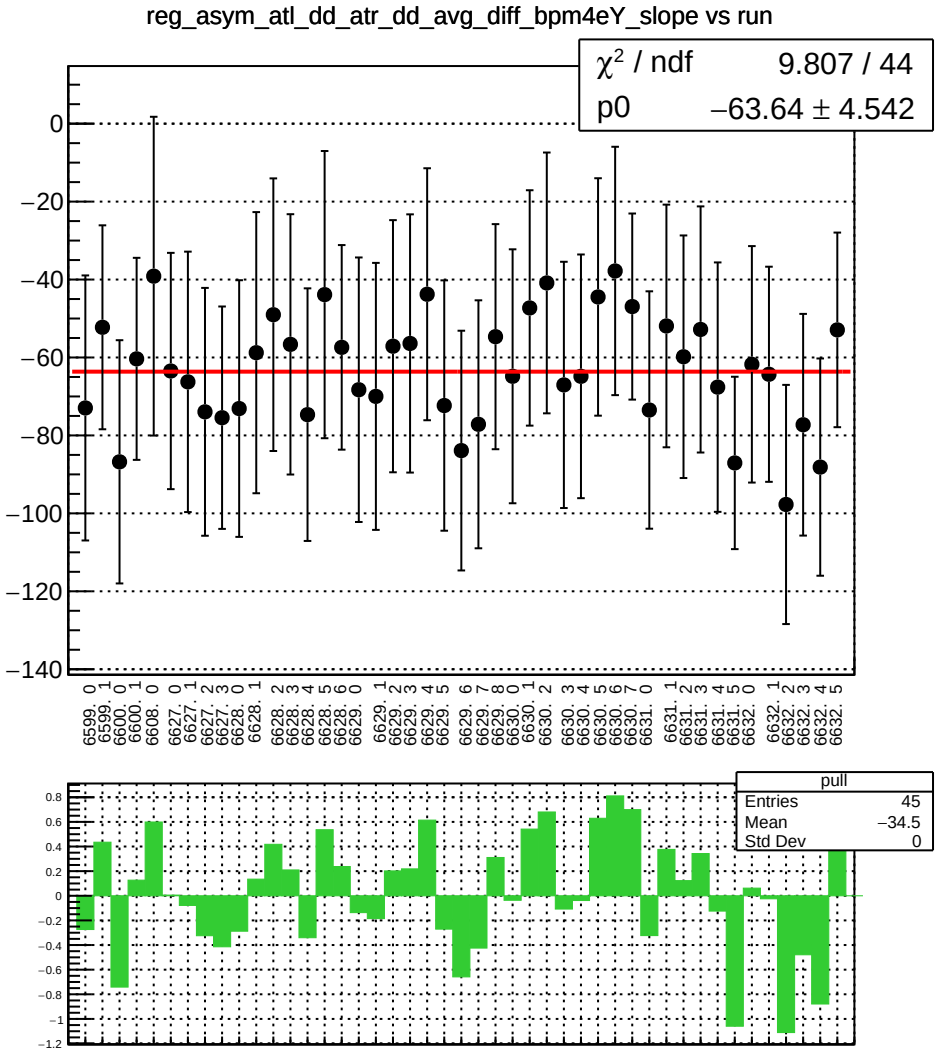

pull1D
Entries 45
Mean 0.006538
Std Dev 0.4491

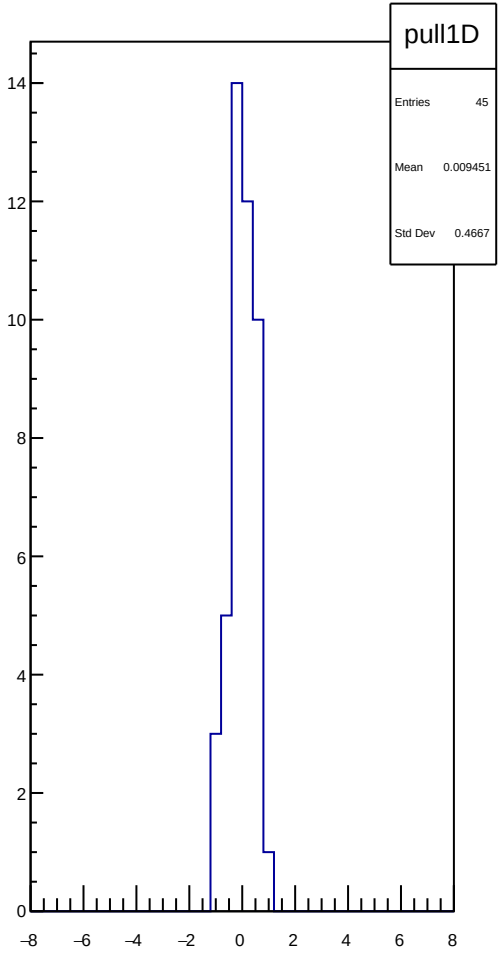

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.185 / 44
p0 −21.63 ± 3.802
pull
Entries 45
Mean 98.75
Std Dev 0

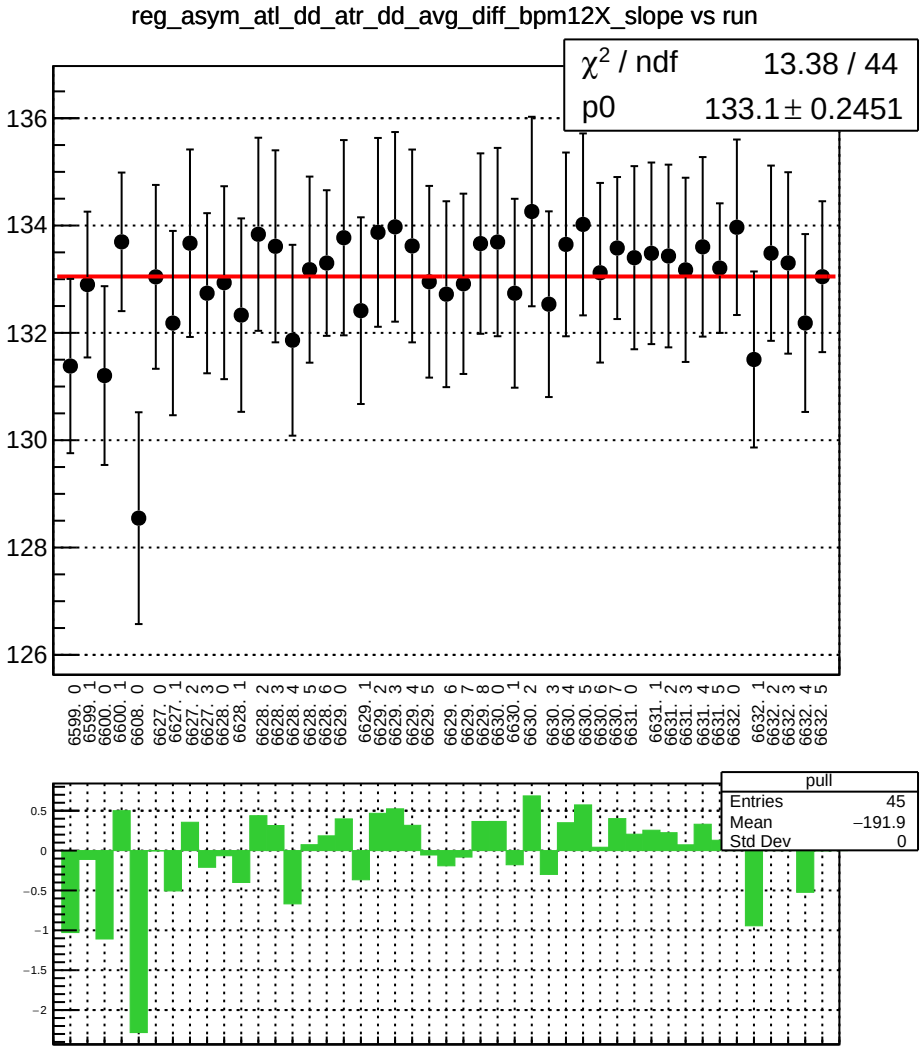

pull1D
Entries 45
Mean −0.00473
Std Dev 0.4265

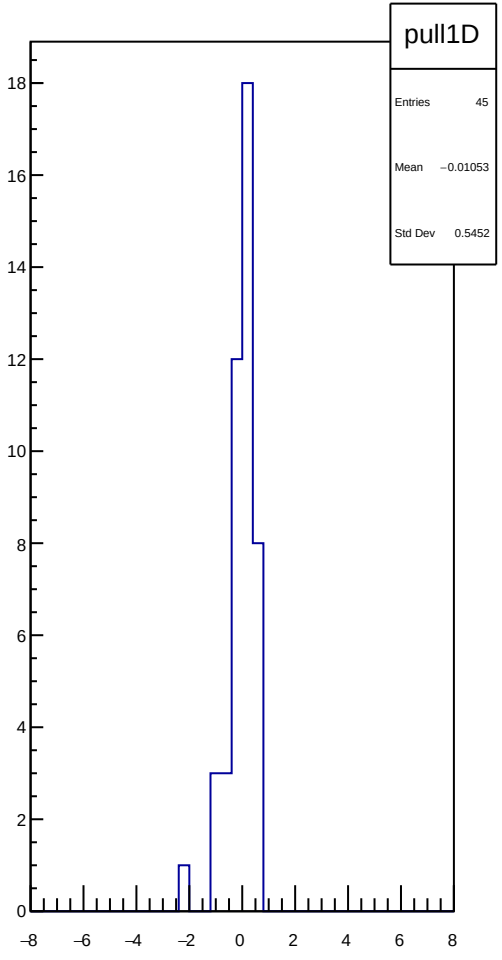

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.657 / 44
p0 −241.6 ± 5.971
−150
−200
−250
−300
−350
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −126.6
Std Dev 0
1
0.5
0
−0.5
−1

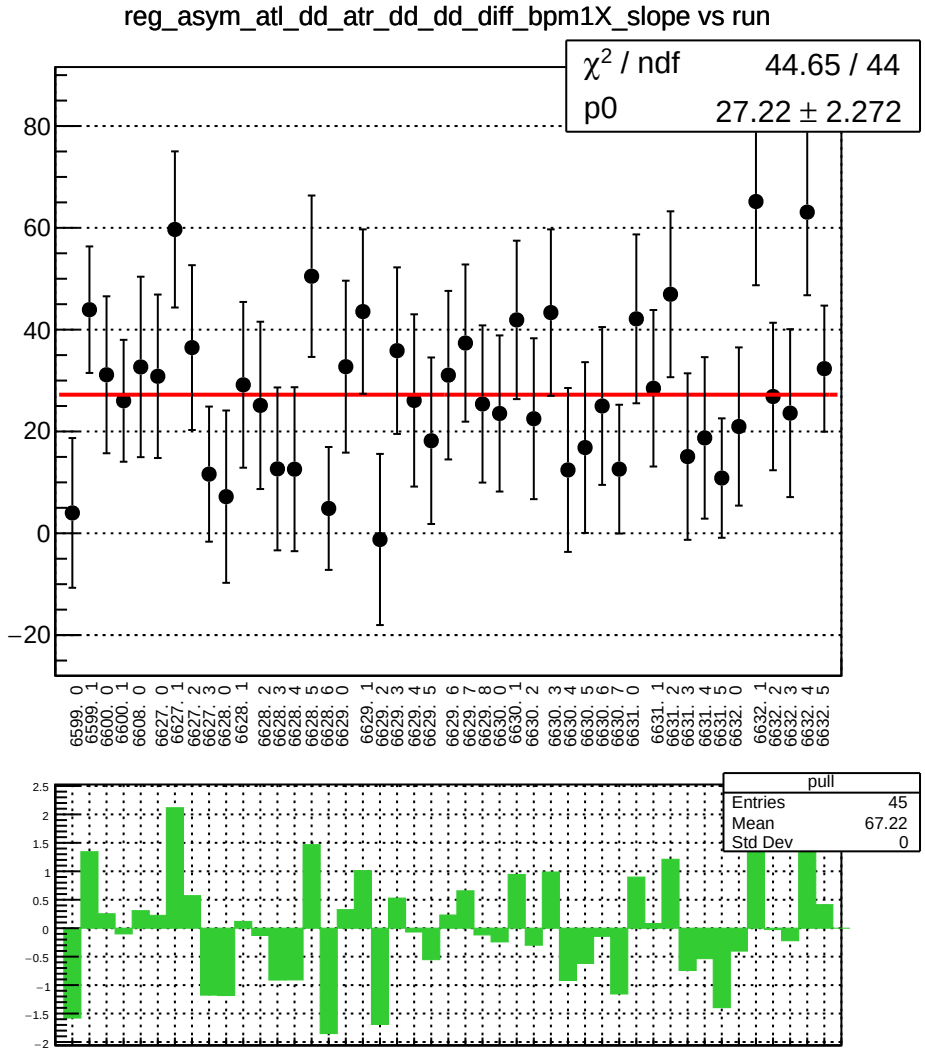

pull1D
Entries 45
Mean −0.007995
Std Dev 0.4385
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

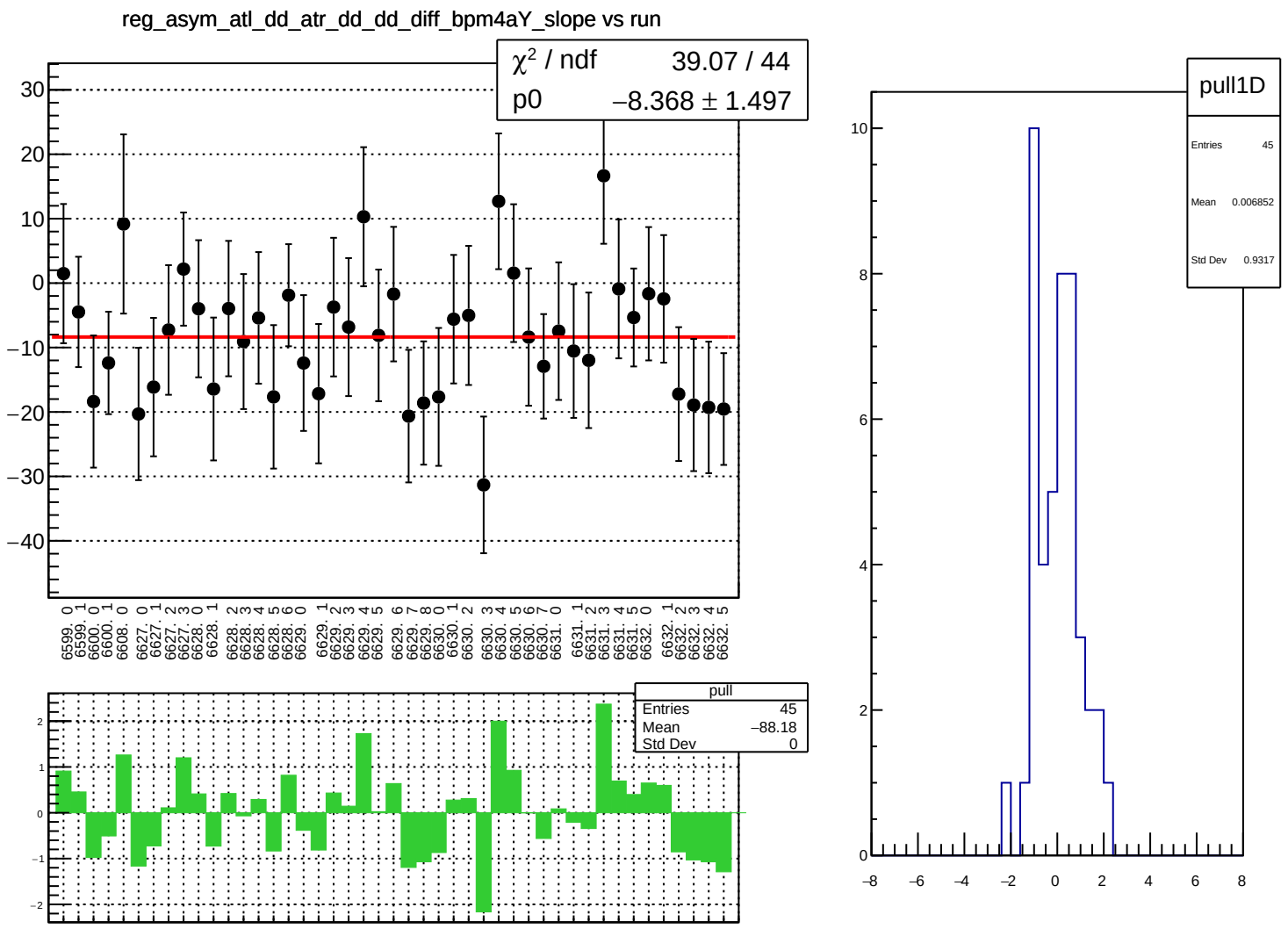

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.807 / 44
p0 −63.64 ± 4.542
pull
Entries 45
Mean −34.5
Std Dev 0

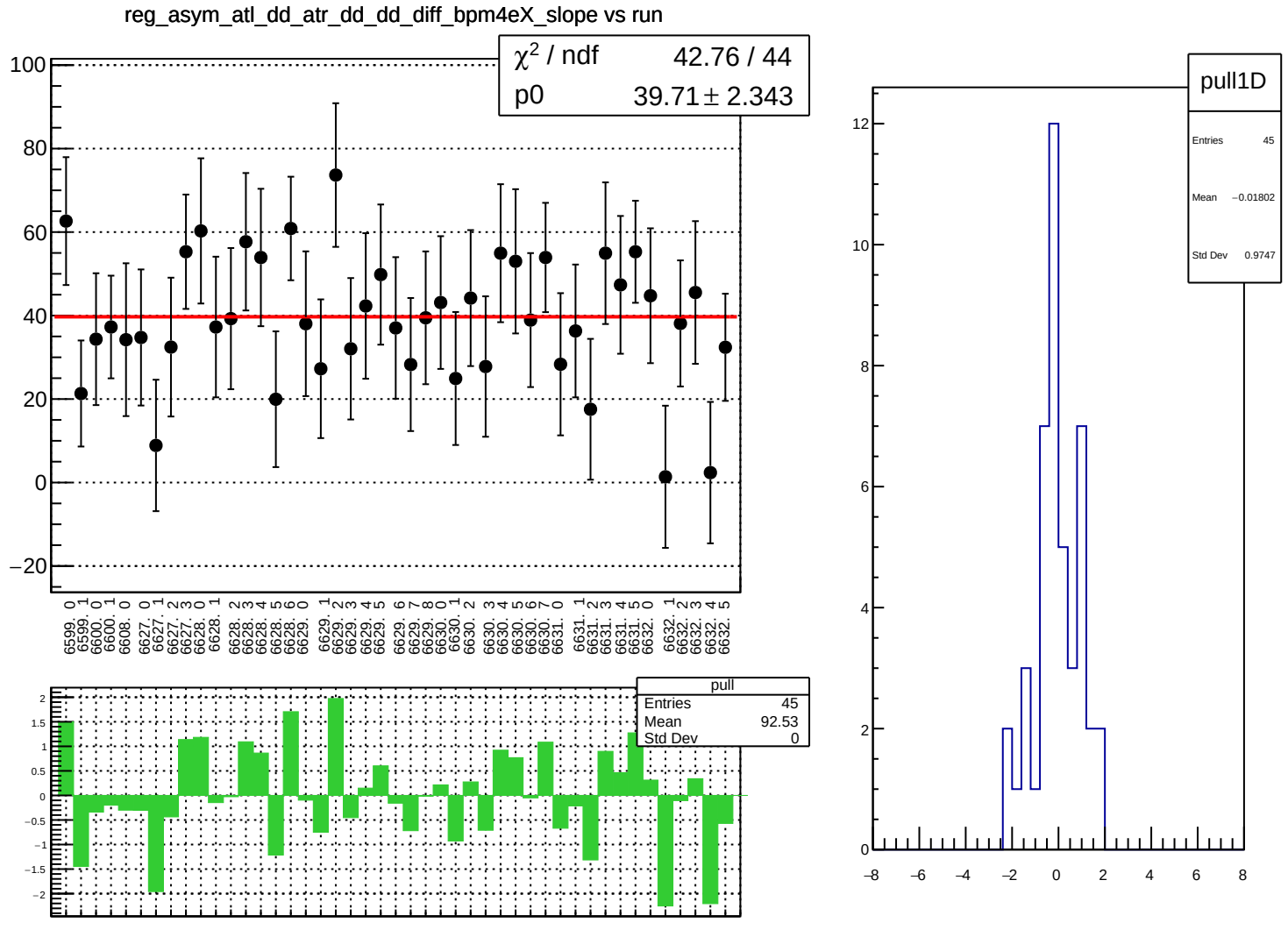

pull1D
Entries 45
Mean 0.009451
Std Dev 0.4667

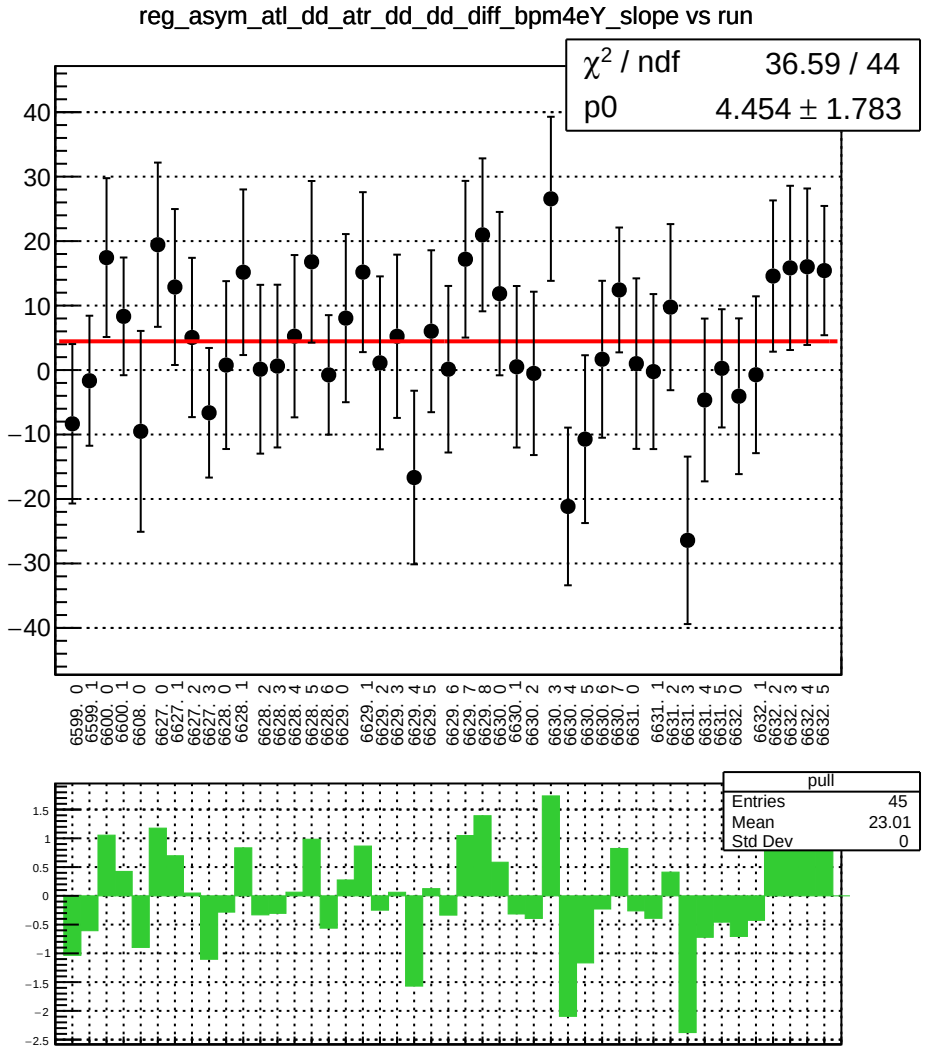

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 13.38 / 44
p0 133.1 ± 0.2451
pull
Entries 45
Mean −191.9
Std Dev 0

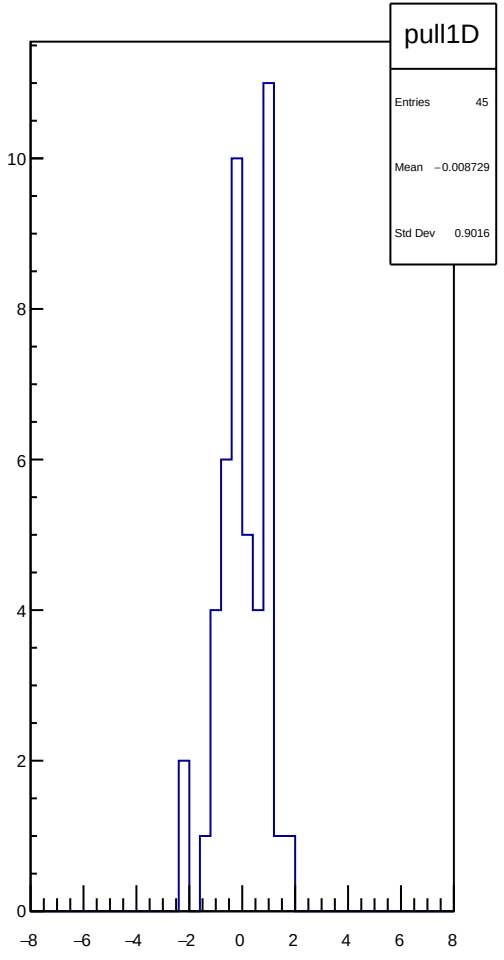

pull1D
Entries 45
Mean −0.01053
Std Dev 0.5452

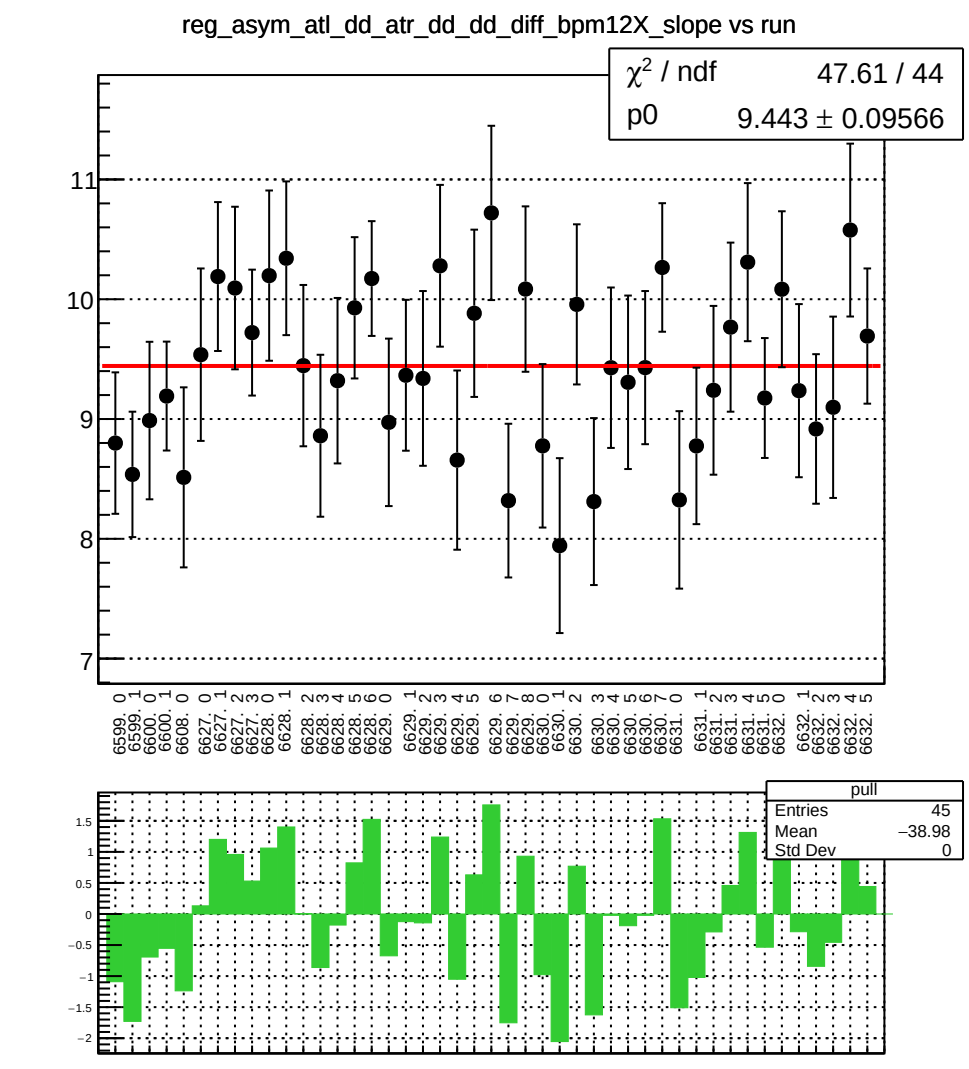

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 44.65 / 44
p0 27.22 ± 2.272
pull
Entries 45
Mean 67.22
Std Dev 0
pull1D
Entries 45
Mean 0.02748
Std Dev 0.9958

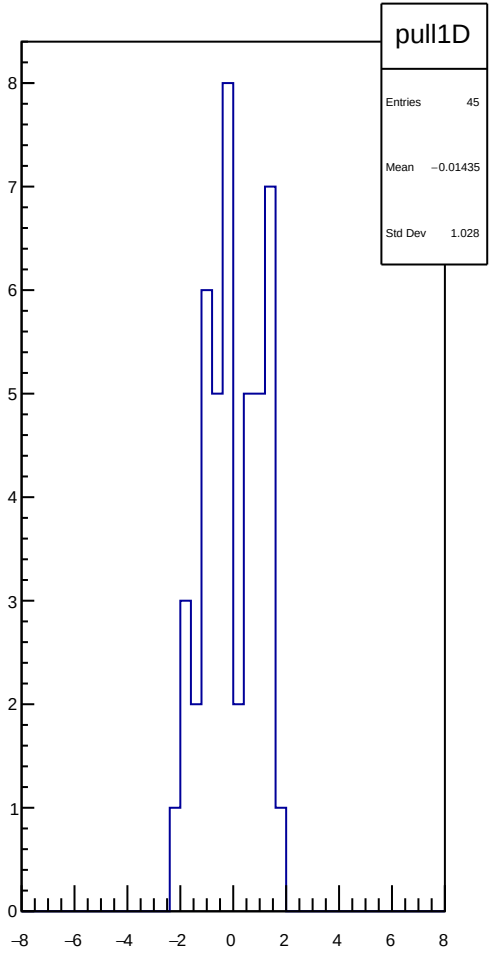

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 39.07 / 44
p0 −8.368 ± 1.497
pull
Entries 45
Mean −88.18
Std Dev 0
pull1D
Entries 45
Mean 0.006852
Std Dev 0.9317

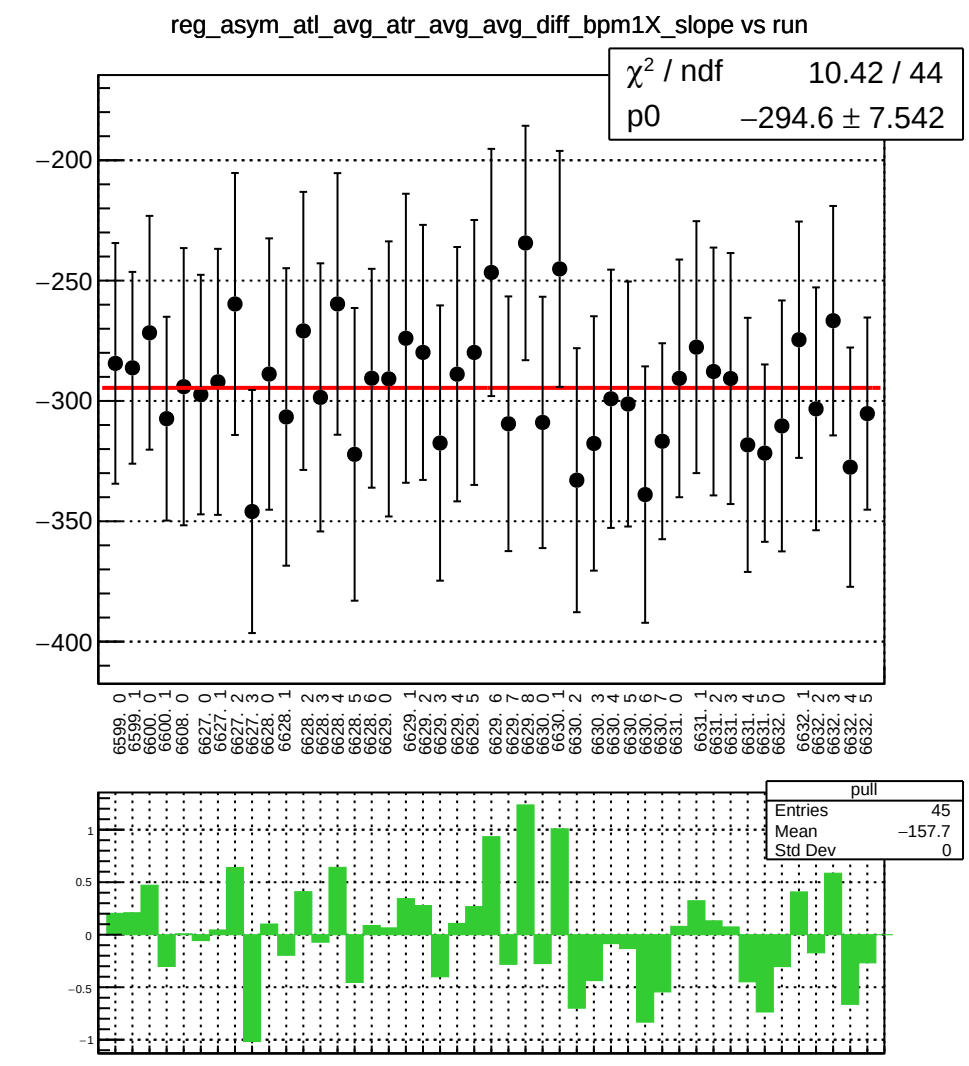

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 42.76 / 44
p0 39.71 ± 2.343
100
80
60
40
20
0
−20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 92.53
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01802
Std Dev 0.9747
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

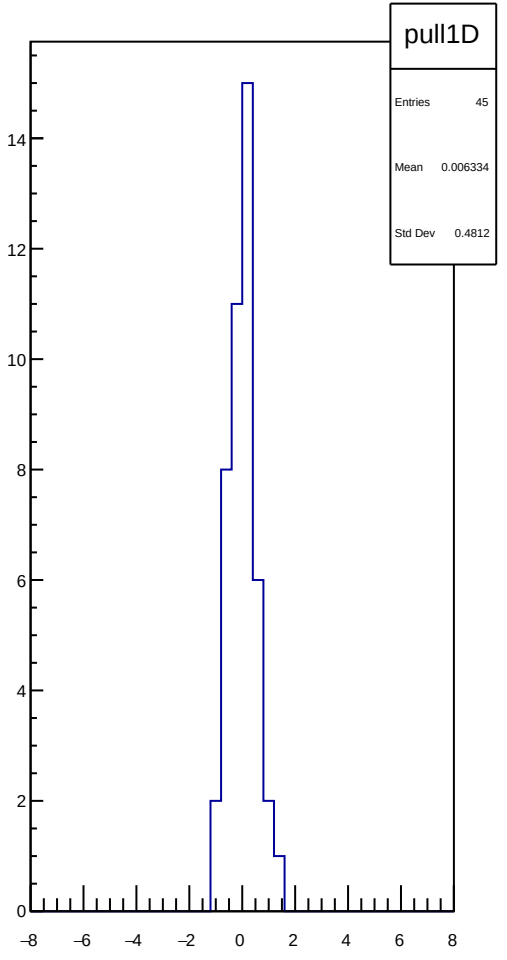

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.59 / 44
p0 4.454 ± 1.783
pull
Entries 45
Mean 23.01
Std Dev 0

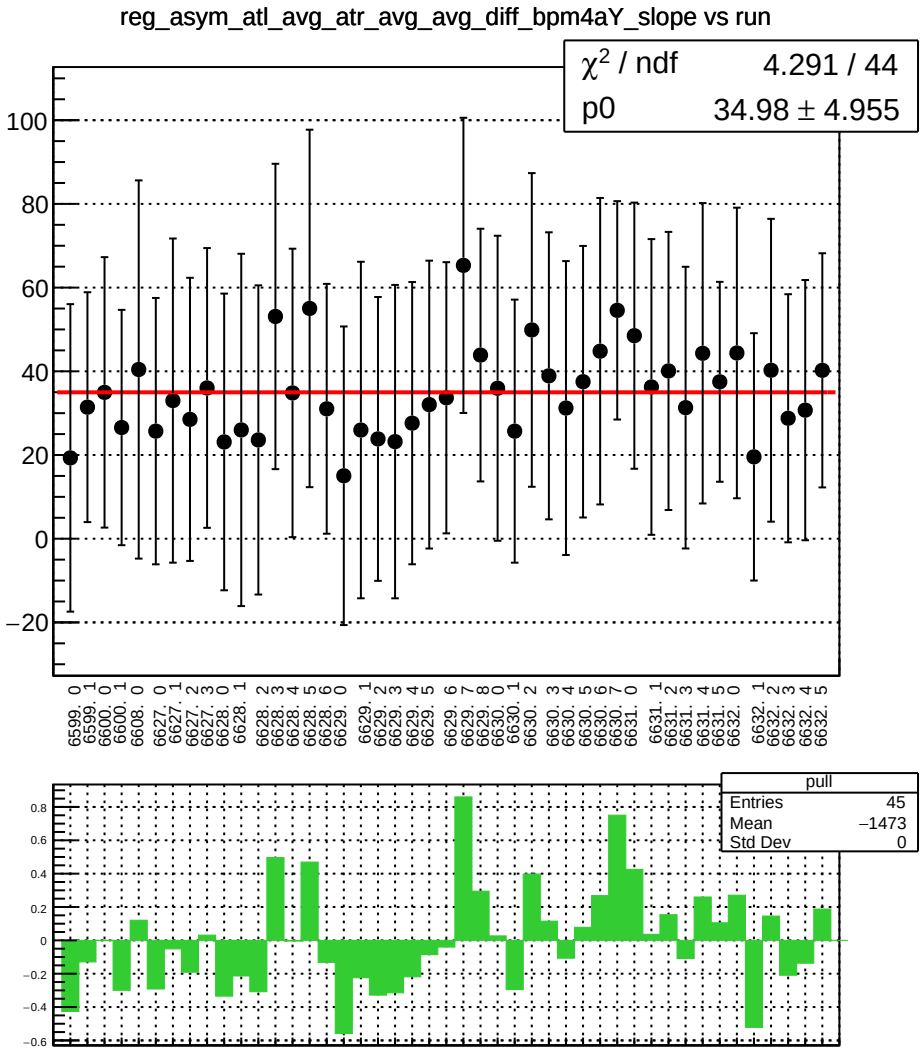

pull1D
Entries 45
Mean −0.008729
Std Dev 0.9016

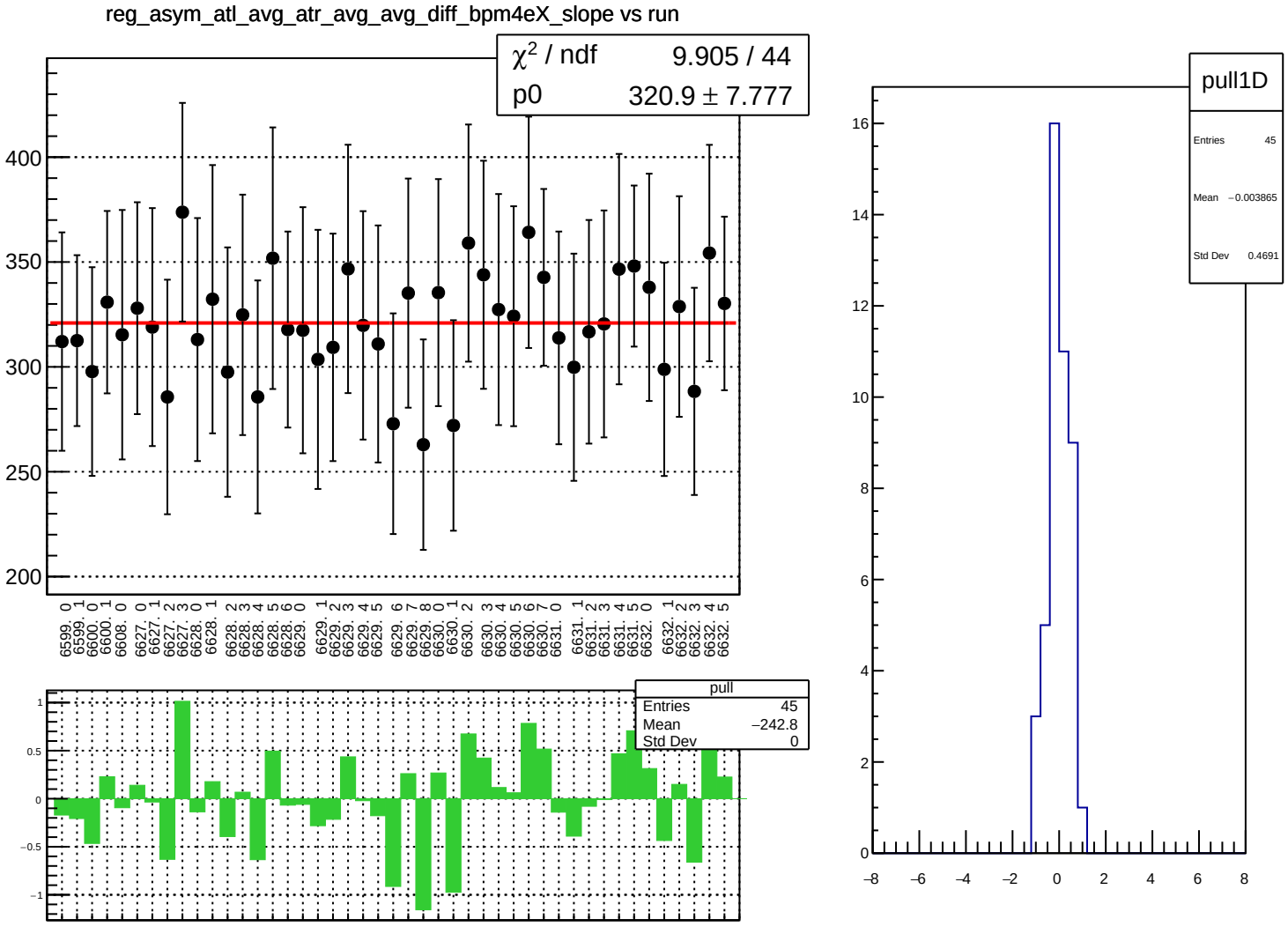

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 47.61 / 44
p0 9.443 ± 0.09566
11
10
9
8
7
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −38.98
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

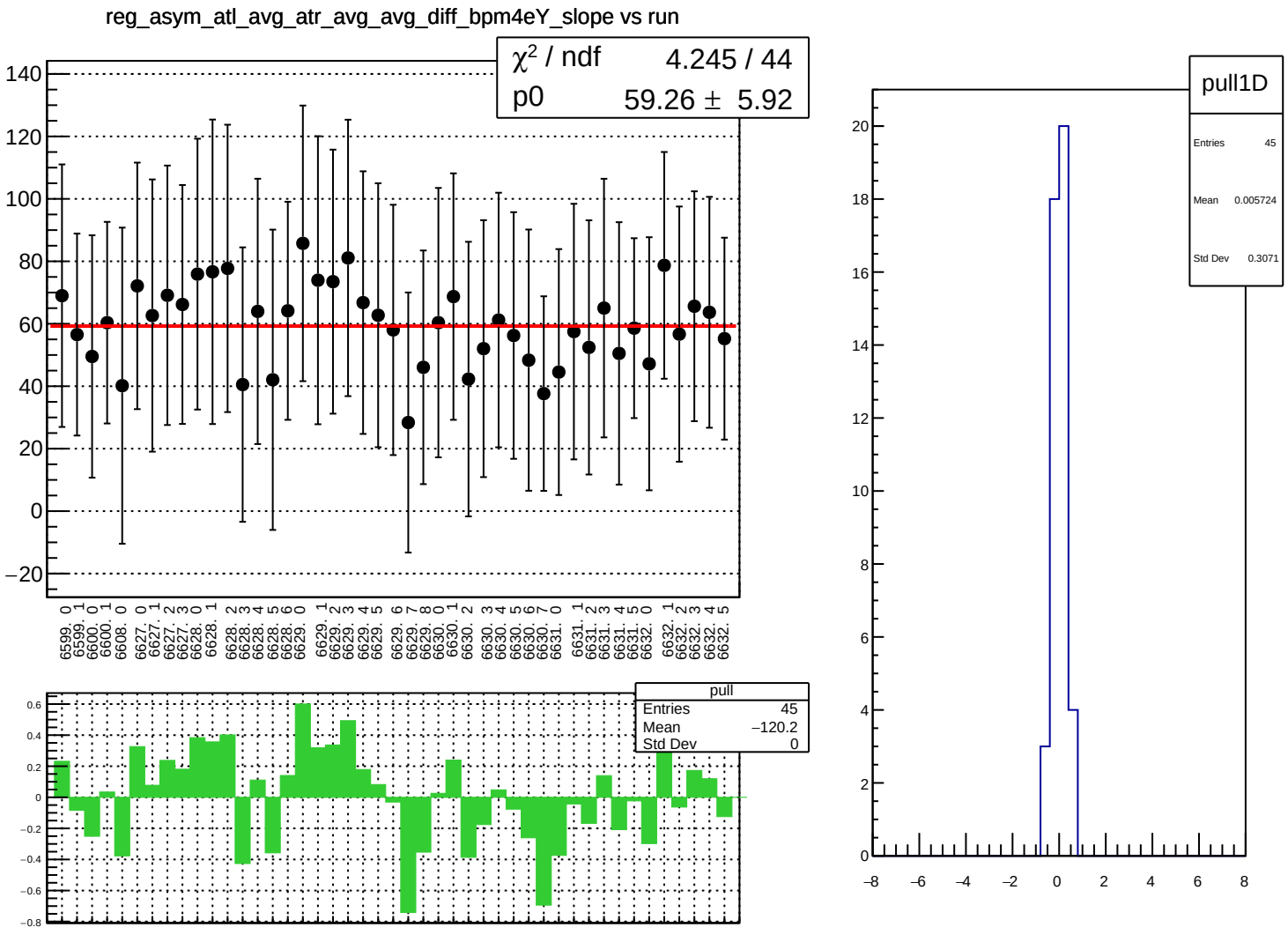

pull1D
Entries 45
Mean −0.01435
Std Dev 1.028
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

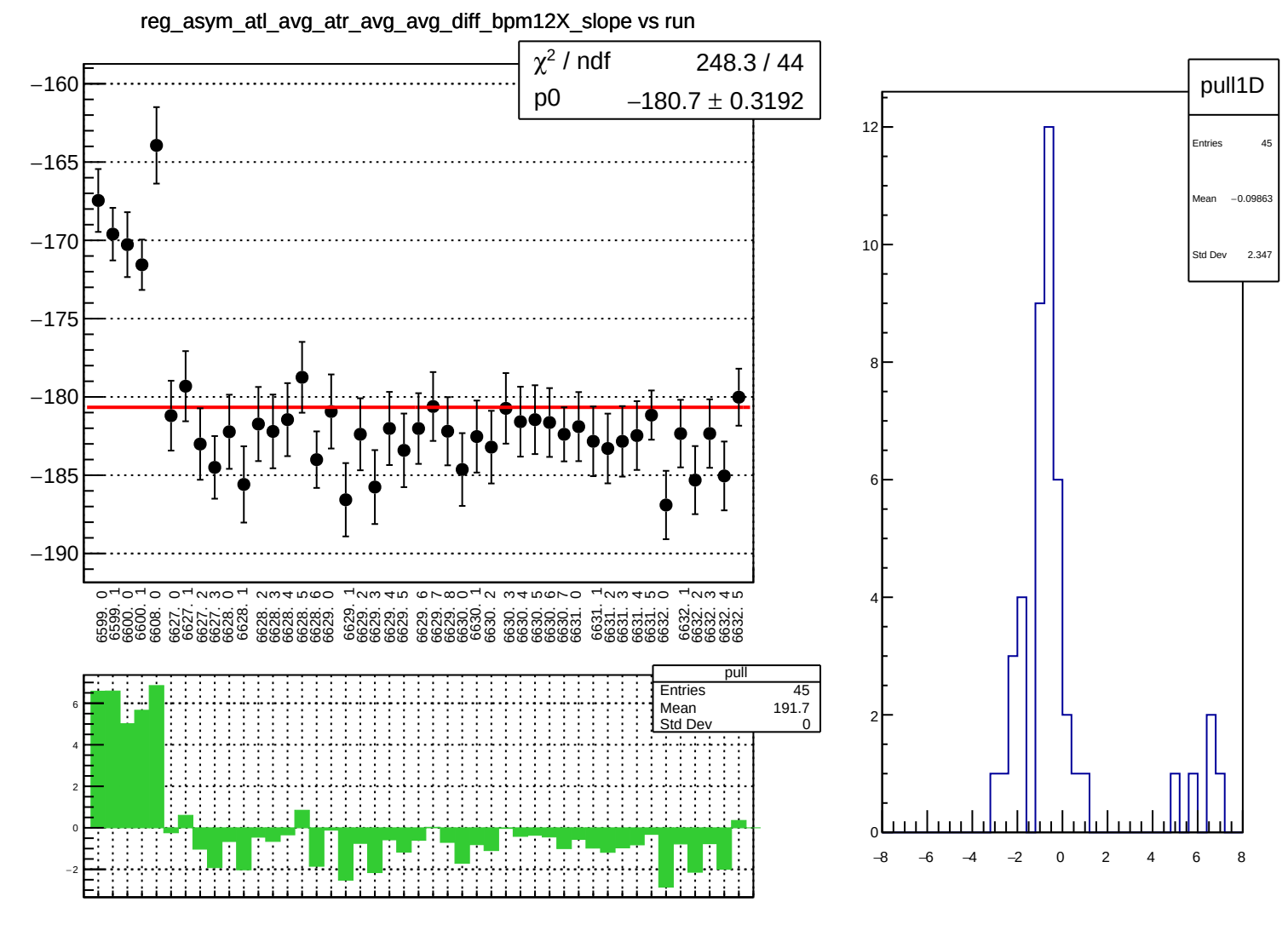

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 10.42 / 44
p0 −294.6 ± 7.542
−200
−250
−300
−350
−400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −157.7
Std Dev 0
1
0.5
0
−0.5
−1

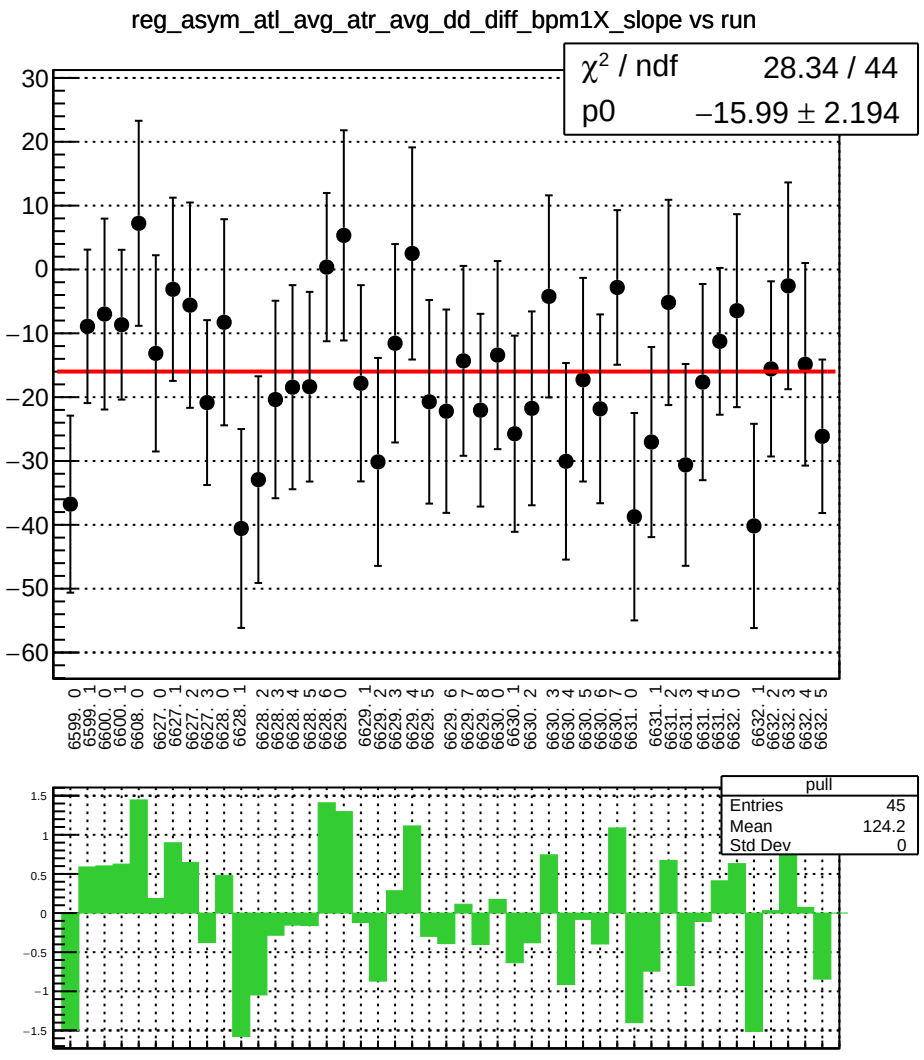

pull1D
Entries 45
Mean 0.006334
Std Dev 0.4812
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

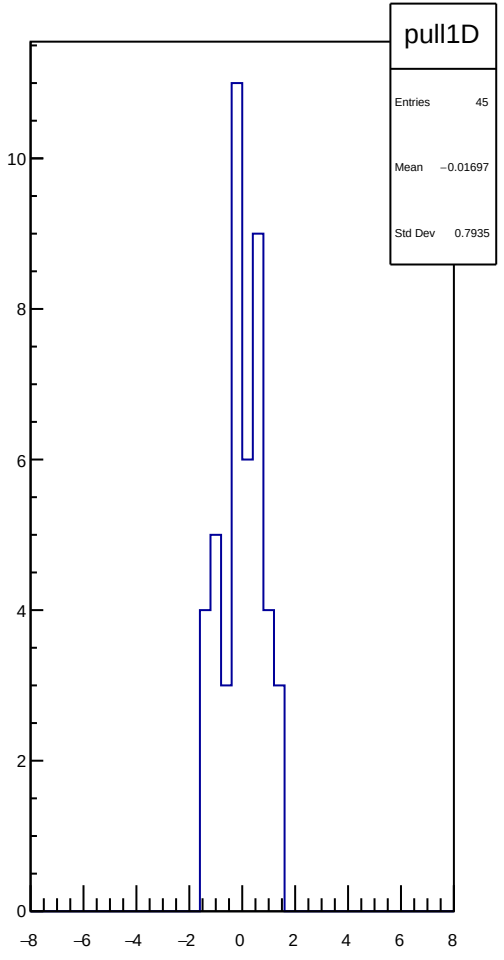

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.291 / 44
p0 34.98 ± 4.955
100
80
60
40
20
0
−20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −1473
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 45
Mean −0.0007823
Std Dev 0.3088
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

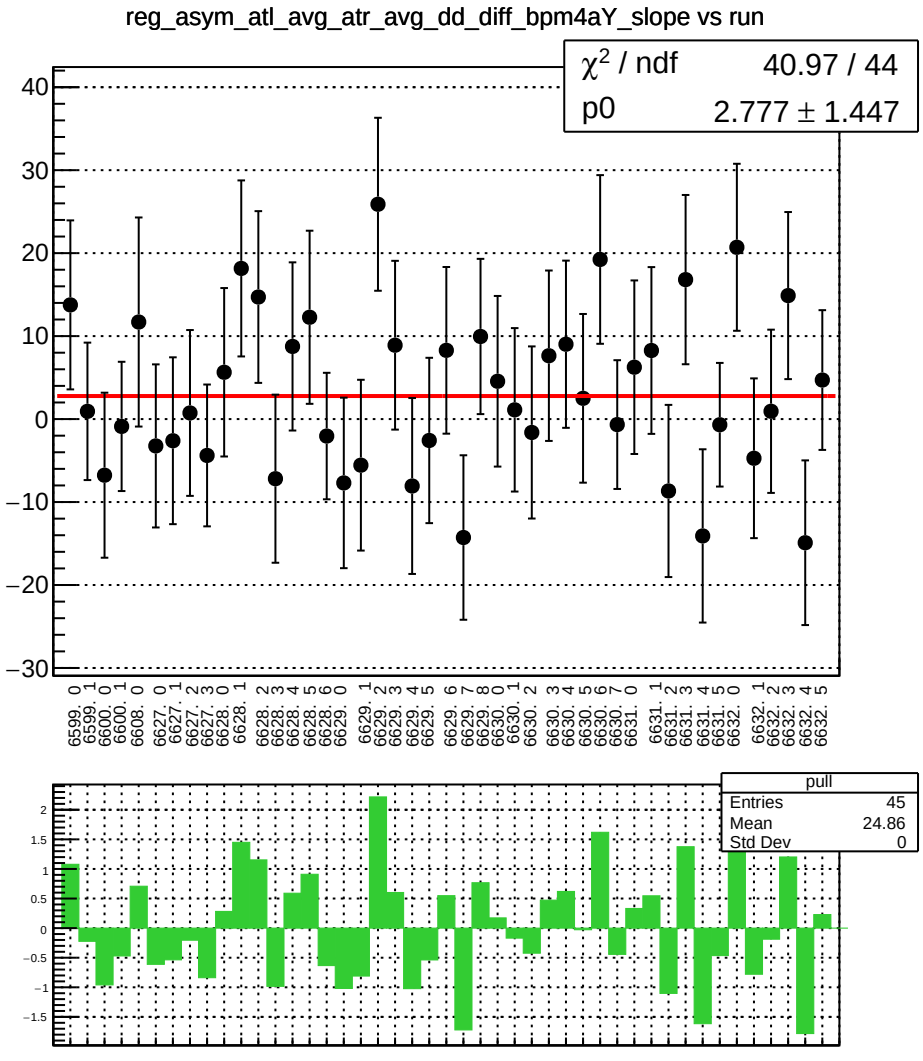

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.905 / 44
p0 320.9 ± 7.777
400
350
300
250
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −242.8
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.003865
Std Dev 0.4691
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

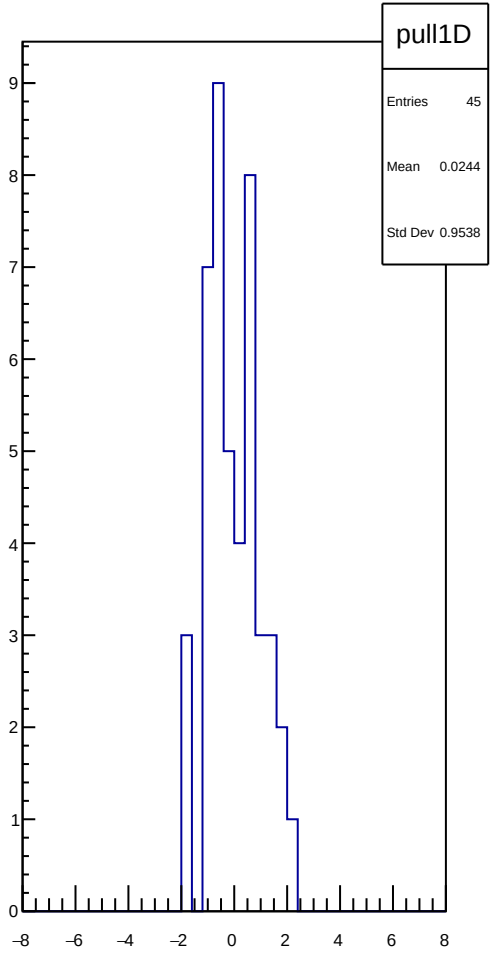

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.245 / 44
p0 59.26 ± 5.92
pull
Entries 45
Mean −120.2
Std Dev 0
pull1D
Entries 45
Mean 0.005724
Std Dev 0.3071

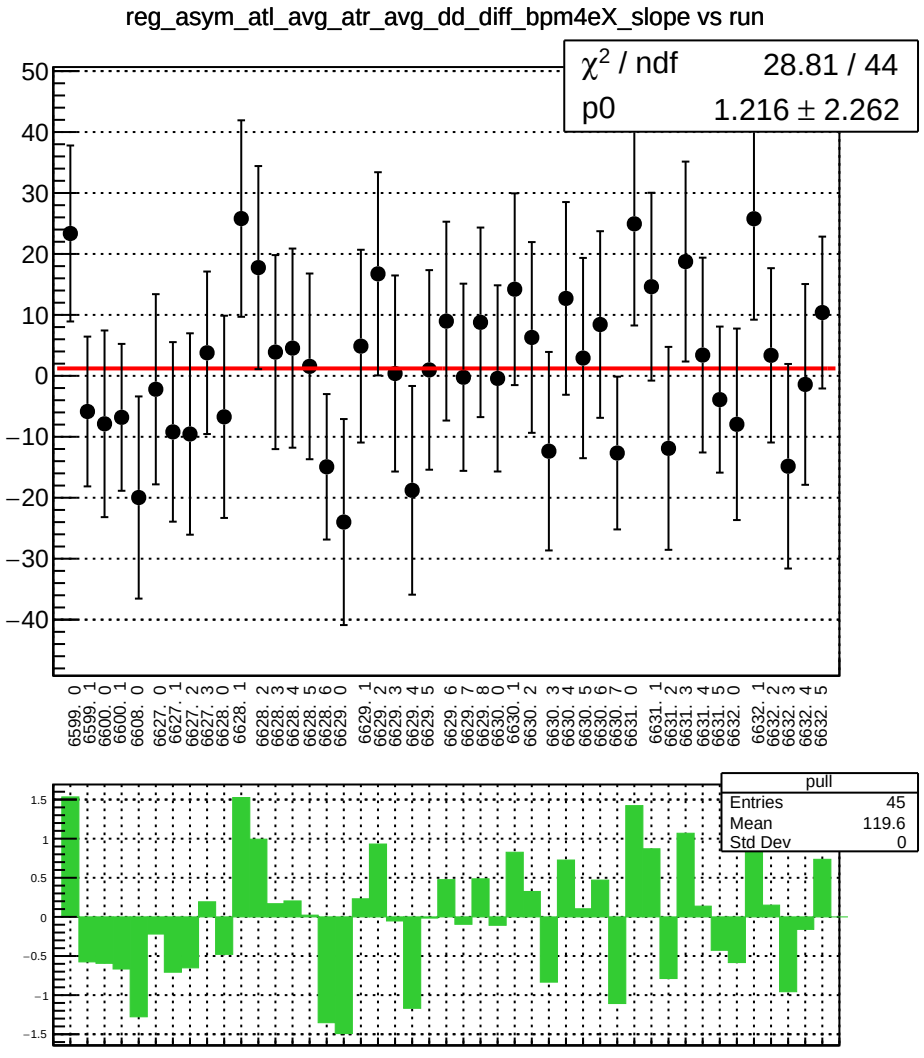

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 248.3 / 44
p0 −180.7 ± 0.3192
−160
−165
−170
−175
−180
−185
−190
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 191.7
Std Dev 0
6
4
2
0
−2
pull1D
Entries 45
Mean −0.09863
Std Dev 2.347
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

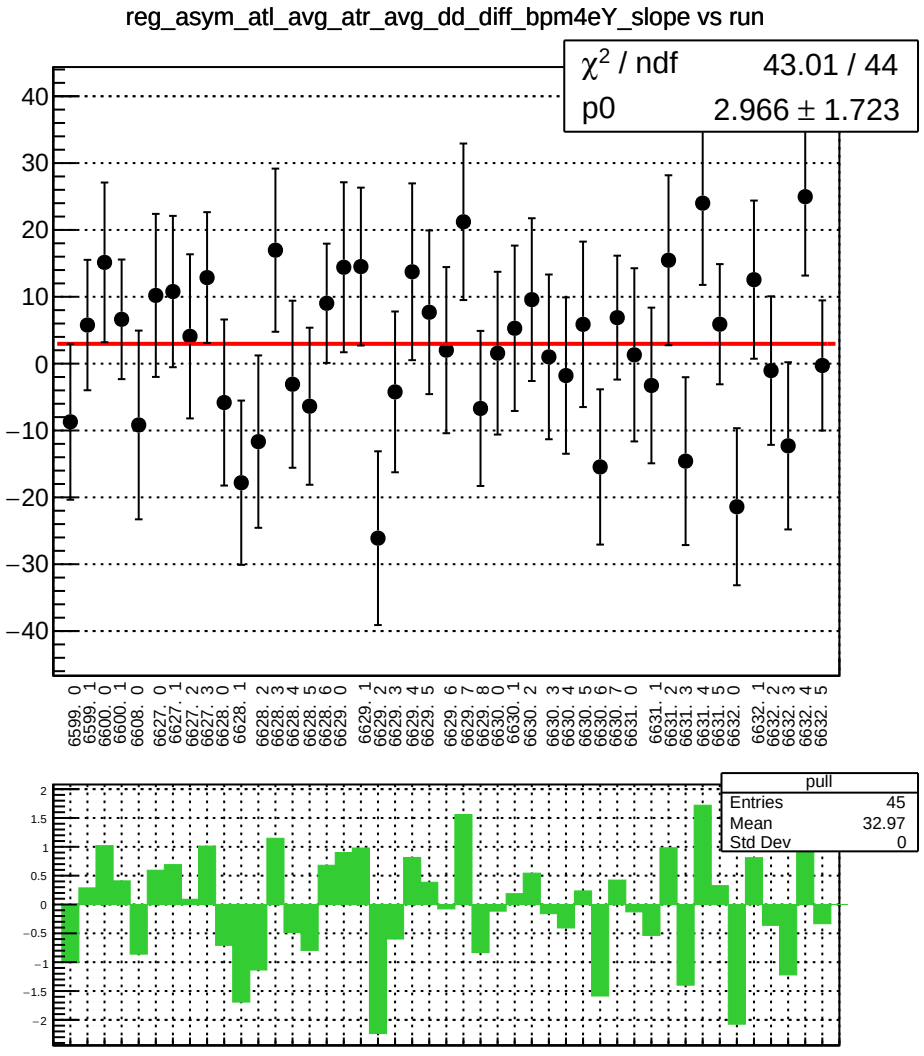

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 28.34 / 44
p0 −15.99 ± 2.194
pull
Entries 45
Mean 124.2
Std Dev 0

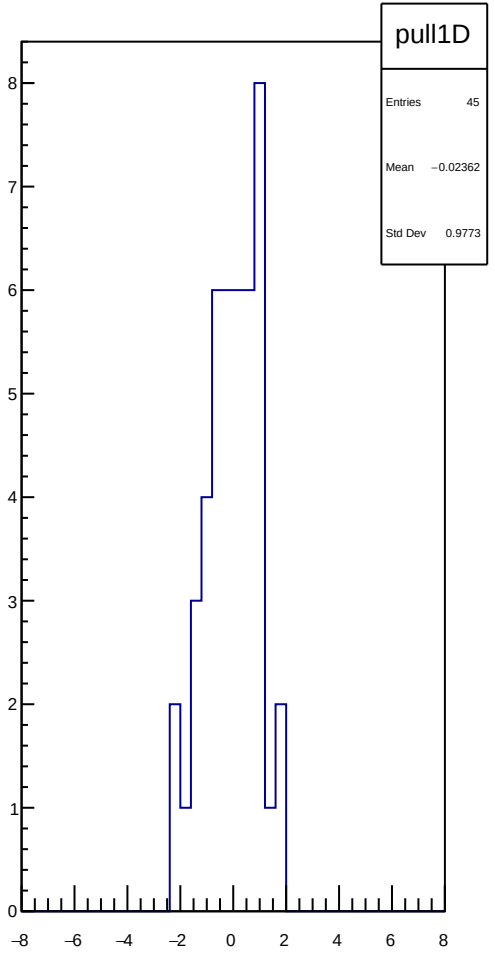

pull1D
Entries 45
Mean −0.01697
Std Dev 0.7935

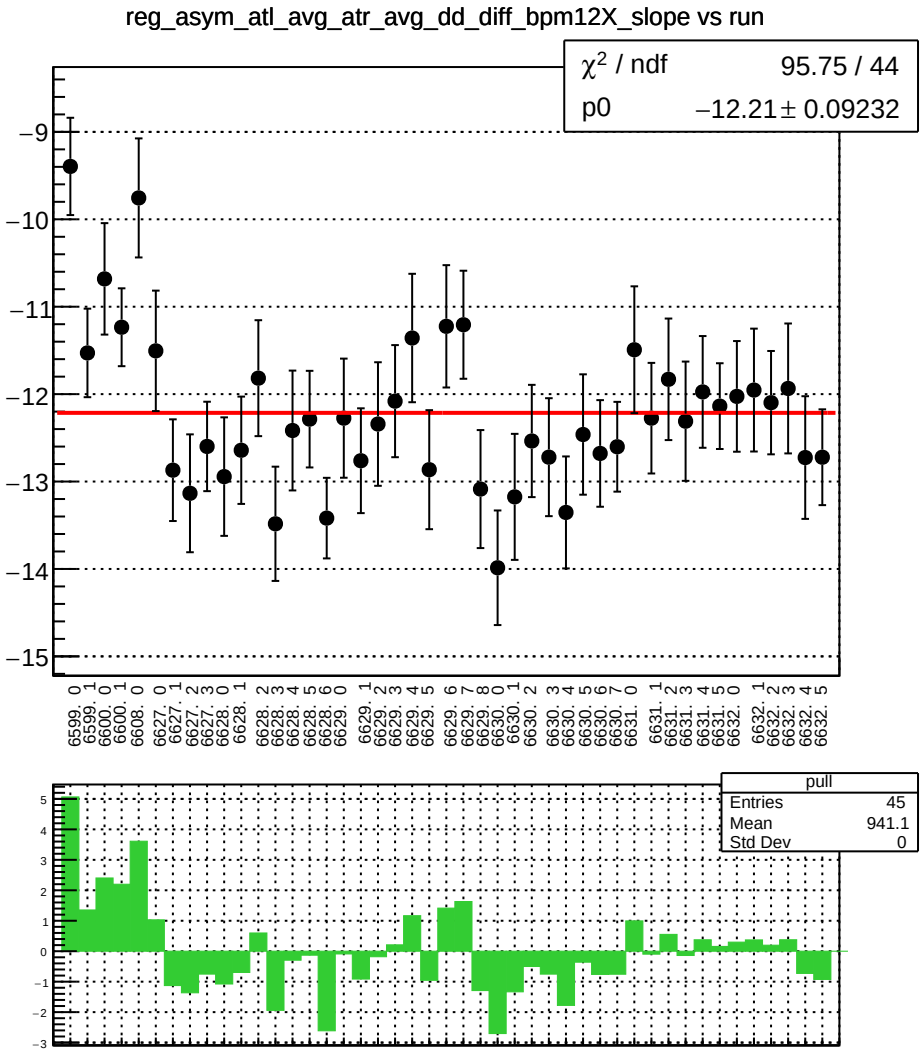

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 40.97 / 44
p0 2.777 ± 1.447
pull
Entries 45
Mean 24.86
Std Dev 0

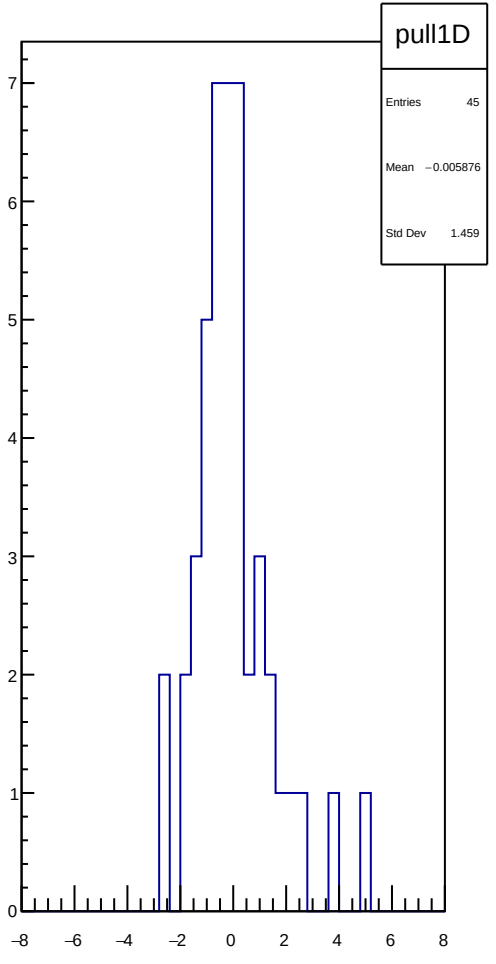

pull1D
Entries 45
Mean 0.0244
Std Dev 0.9538

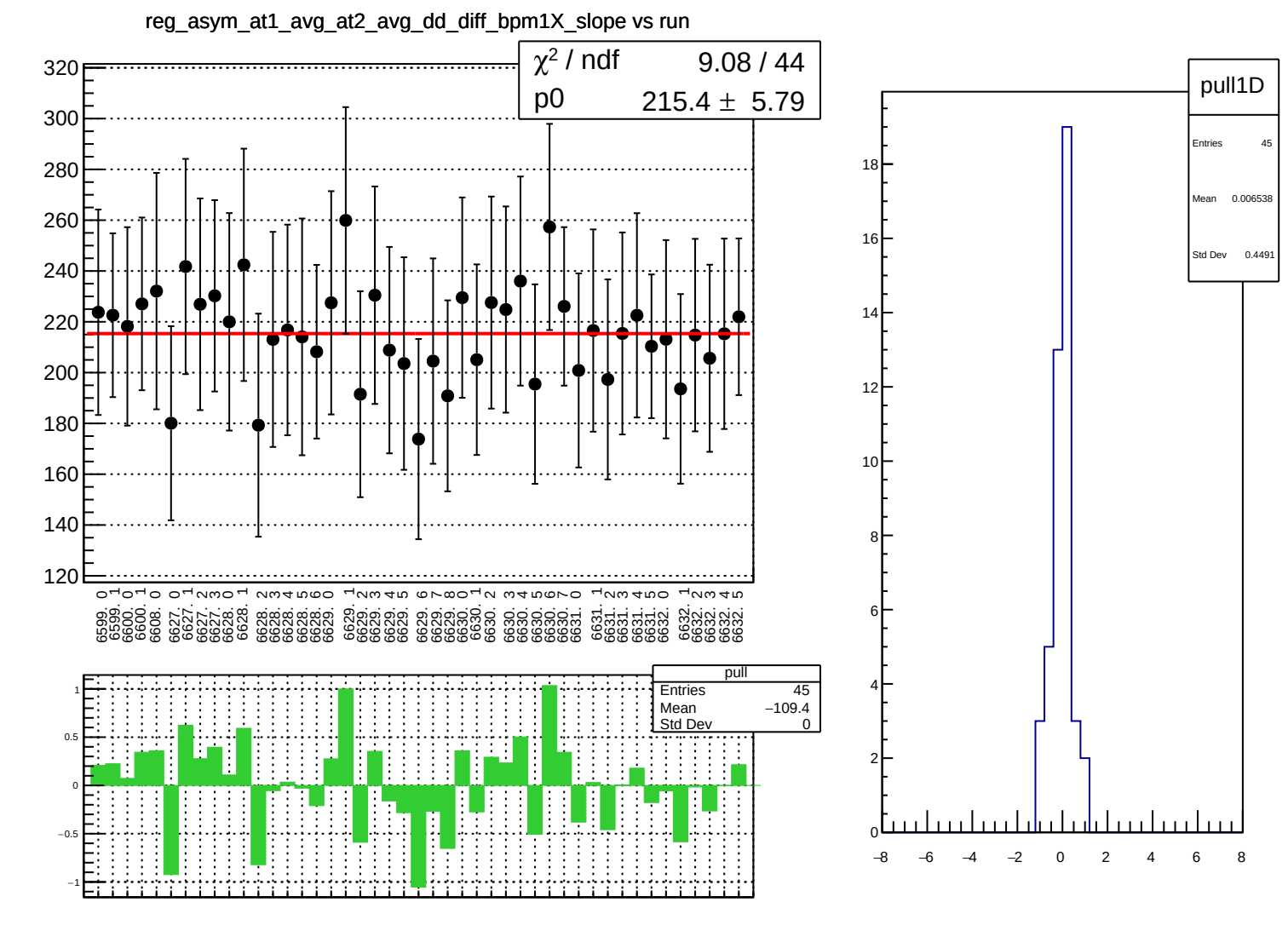

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 28.81 / 44
p0 1.216 ± 2.262
pull
Entries 45
Mean 119.6
Std Dev 0
pull1D
Entries 45
Mean 0.01744
Std Dev 0.8

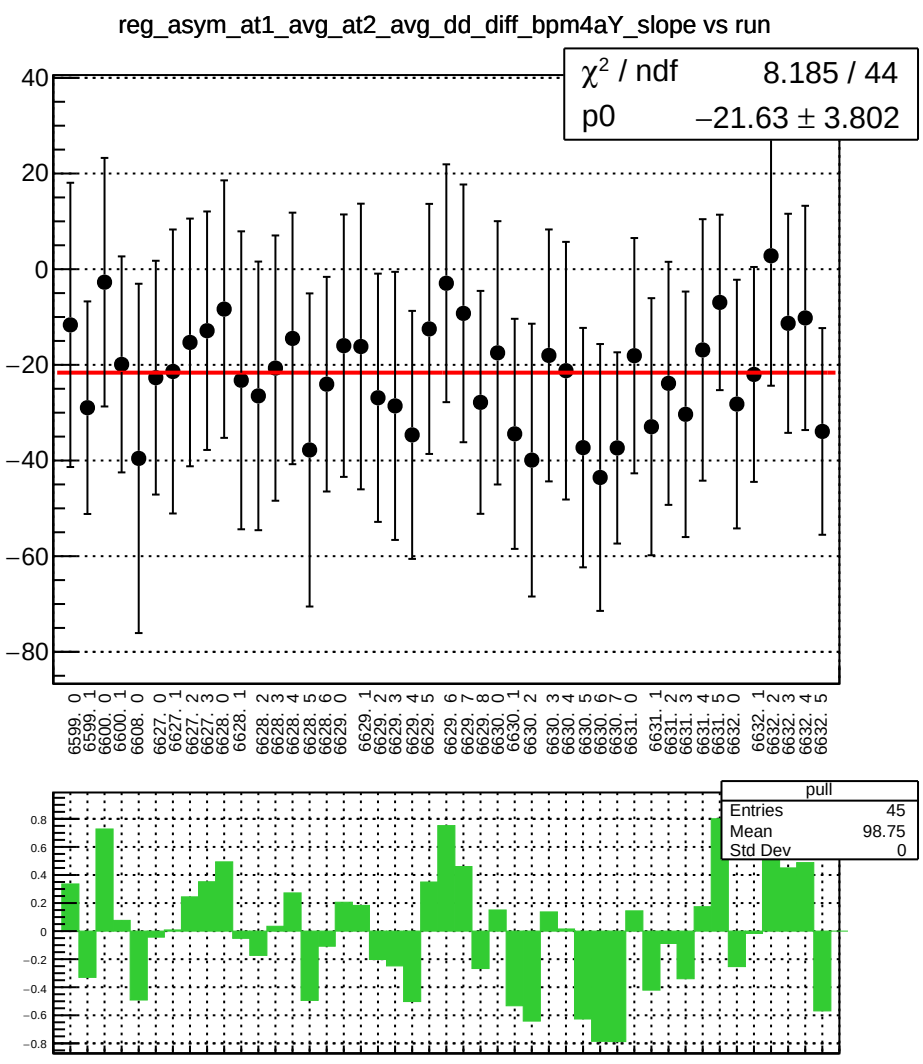

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 43.01 / 44
p0 2.966 ± 1.723
pull
Entries 45
Mean 32.97
Std Dev 0

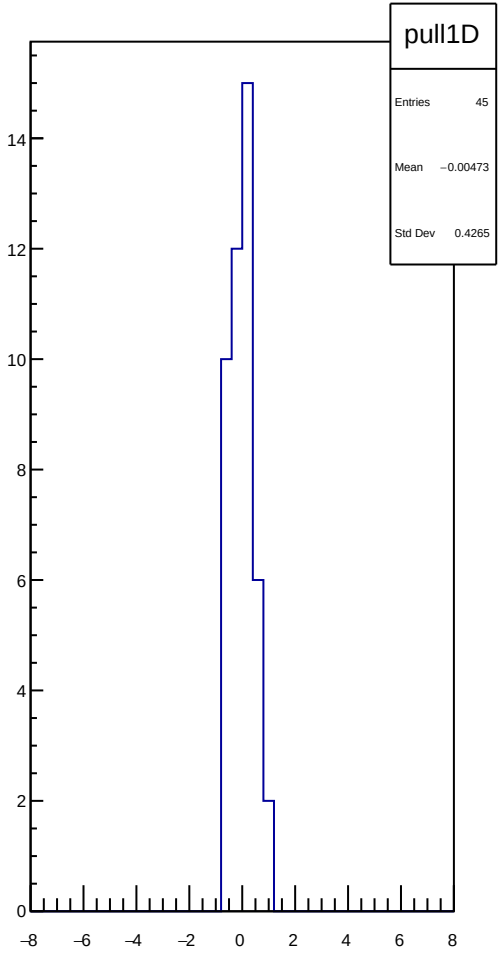

pull1D
Entries 45
Mean −0.02362
Std Dev 0.9773

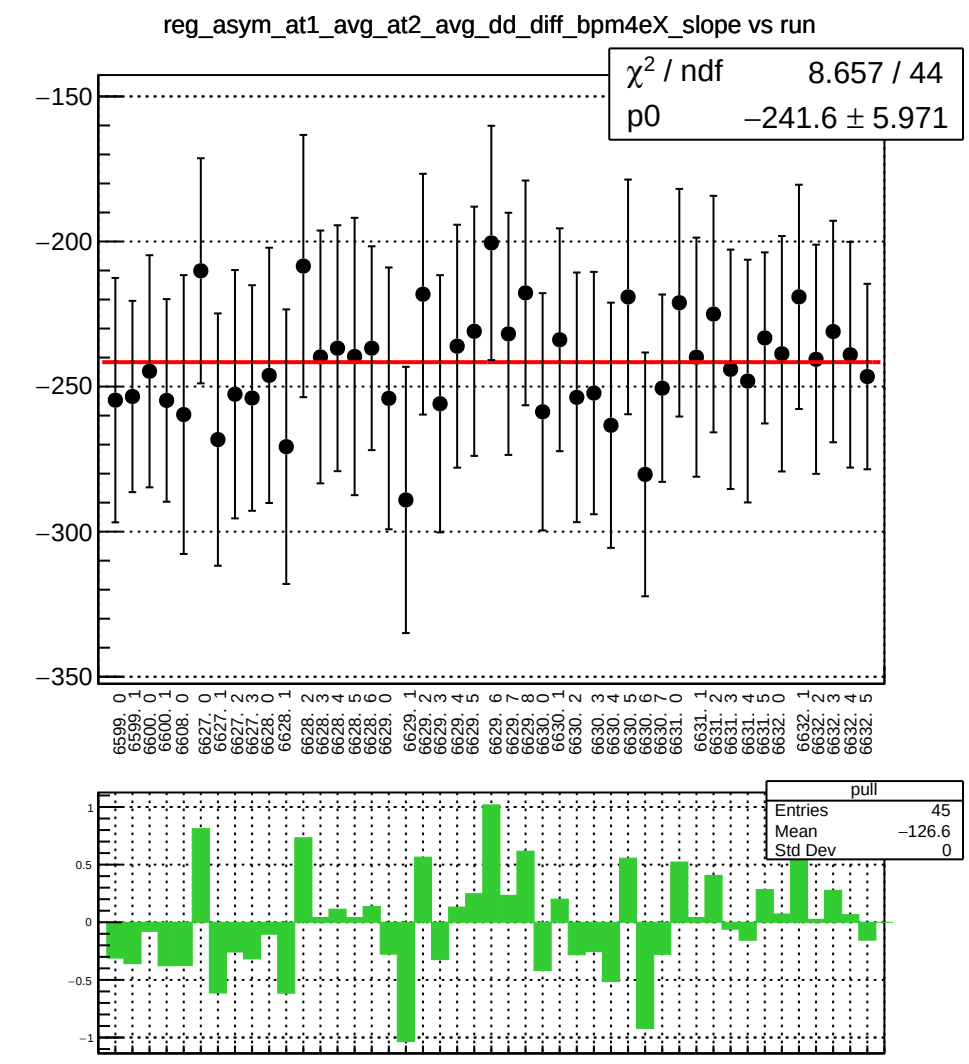

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 95.75 / 44
p0 −12.21 ± 0.09232
pull
Entries 45
Mean 941.1
Std Dev 0


pull1D
Entries 45
Mean −0.005876
Std Dev 1.459


reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 9.08 / 44
p0 215.4 ± 5.79
pull
Entries 45
Mean −109.4
Std Dev 0
pull1D
Entries 45
Mean 0.006538
Std Dev 0.4491


reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.185 / 44
p0 −21.63 ± 3.802
pull
Entries 45
Mean 98.75
Std Dev 0


pull1D
Entries 45
Mean −0.00473
Std Dev 0.4265


reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.657 / 44
p0 −241.6 ± 5.971
−150
−200
−250
−300
−350
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
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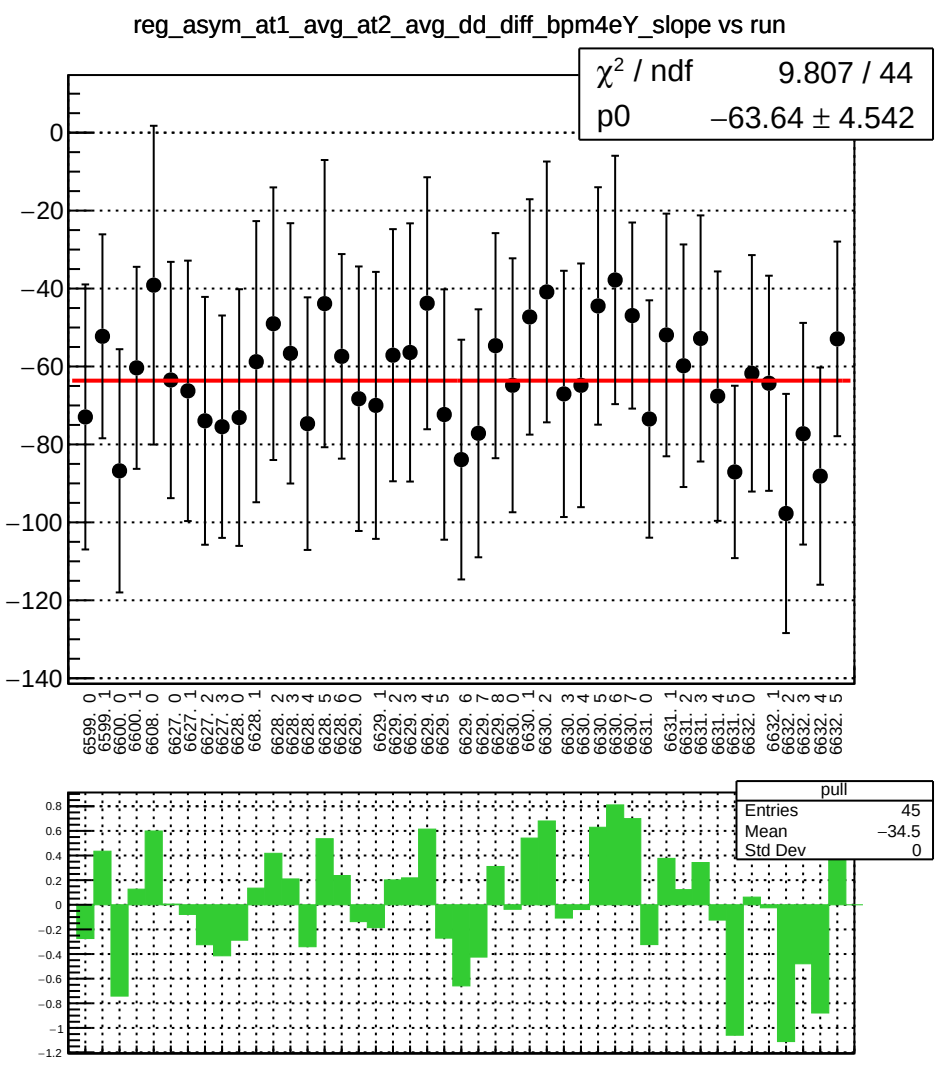
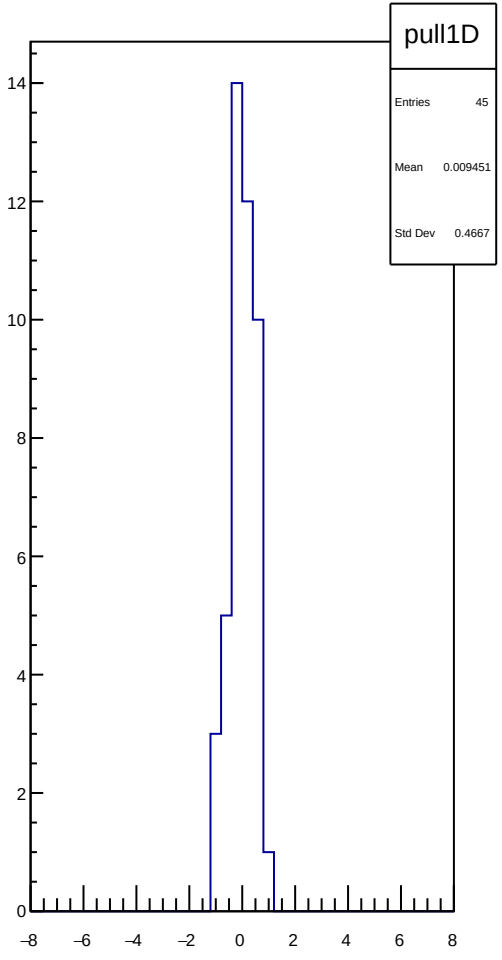
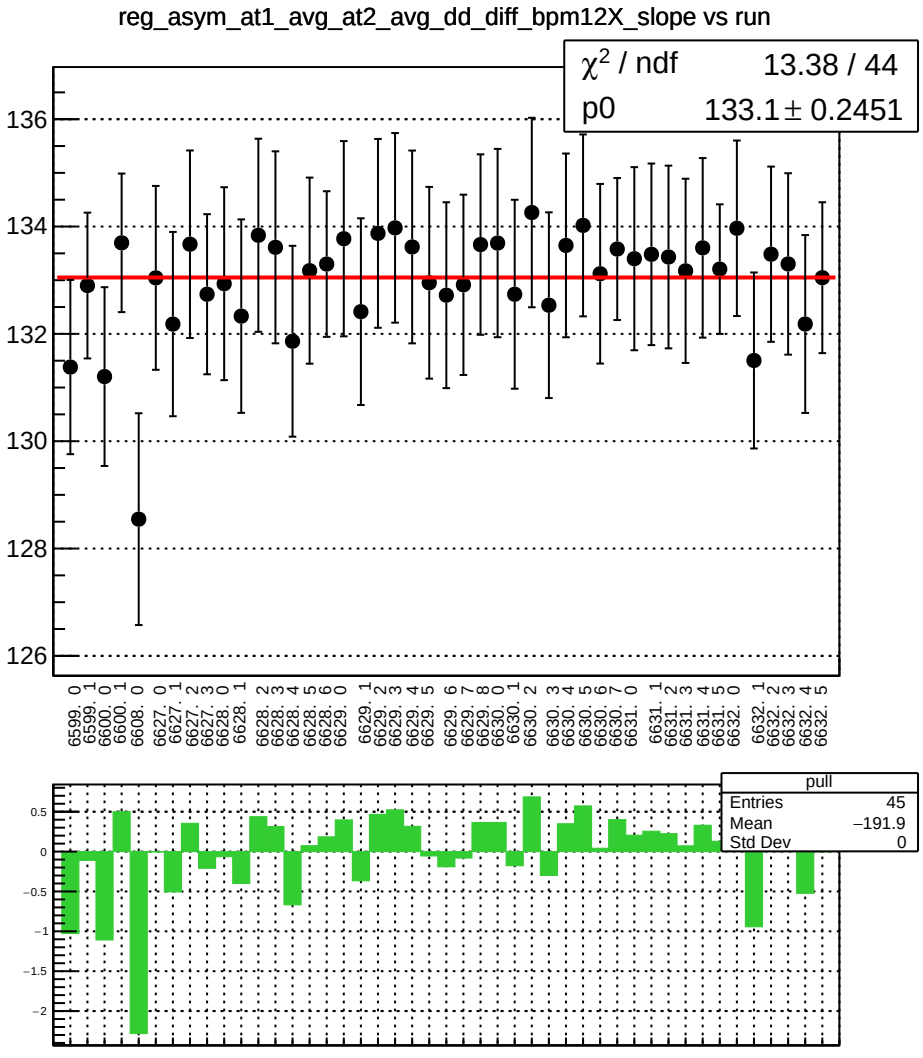
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −126.6
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.007995
Std Dev 0.4385
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.807 / 44
p0 −63.64 ± 4.542
pull
Entries 45
Mean −34.5
Std Dev 0


pull1D
Entries 45
Mean 0.009451
Std Dev 0.4667


reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 13.38 / 44
p0 133.1 ± 0.2451
136
134
132
130
128
126
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
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6628. 4
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6628. 6
6629. 0
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6629. 8
6630. 0
6630. 1
6630. 2
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6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −191.9
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01053
Std Dev 0.5452
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
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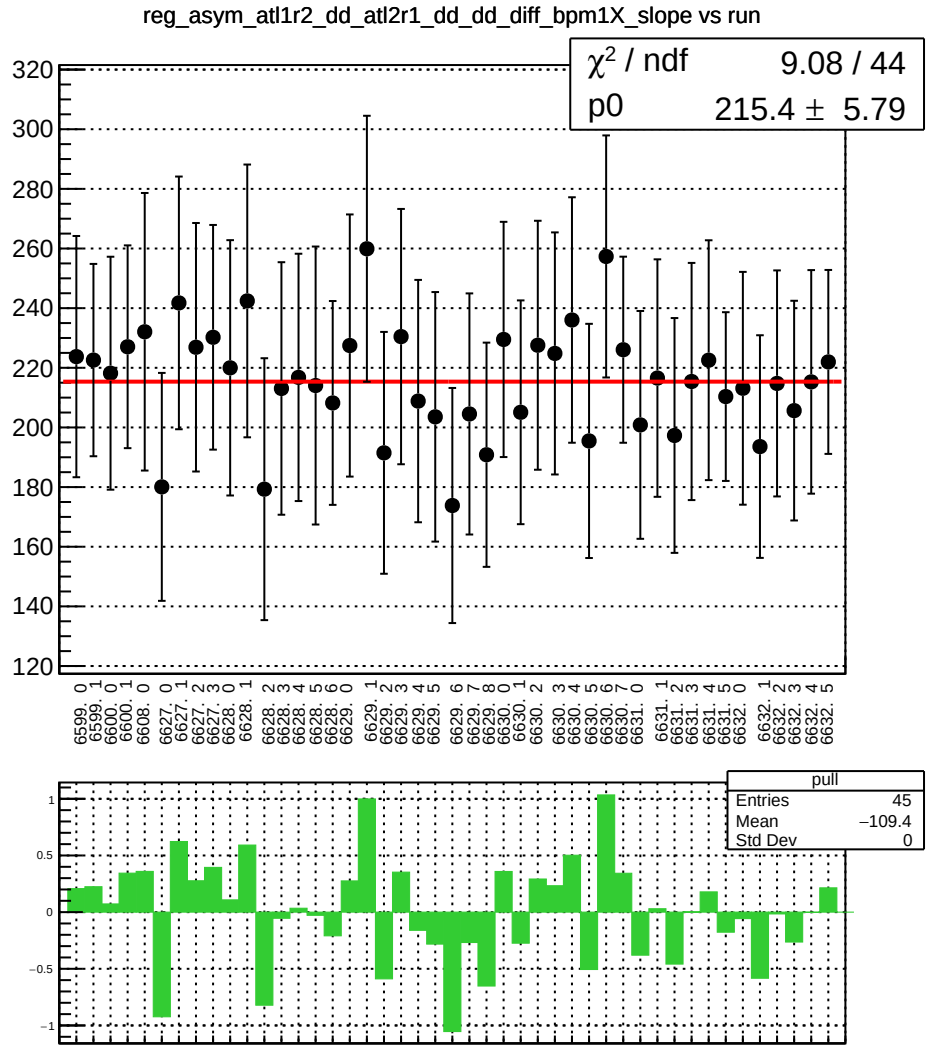
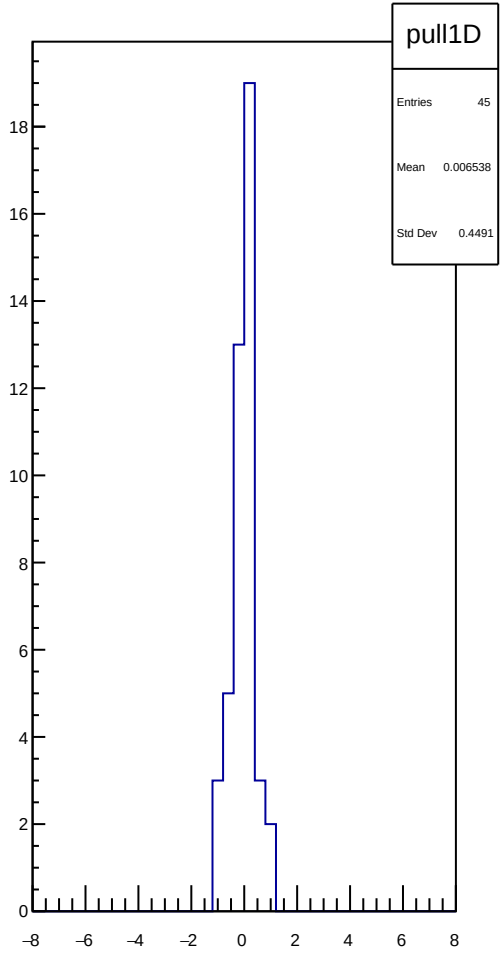
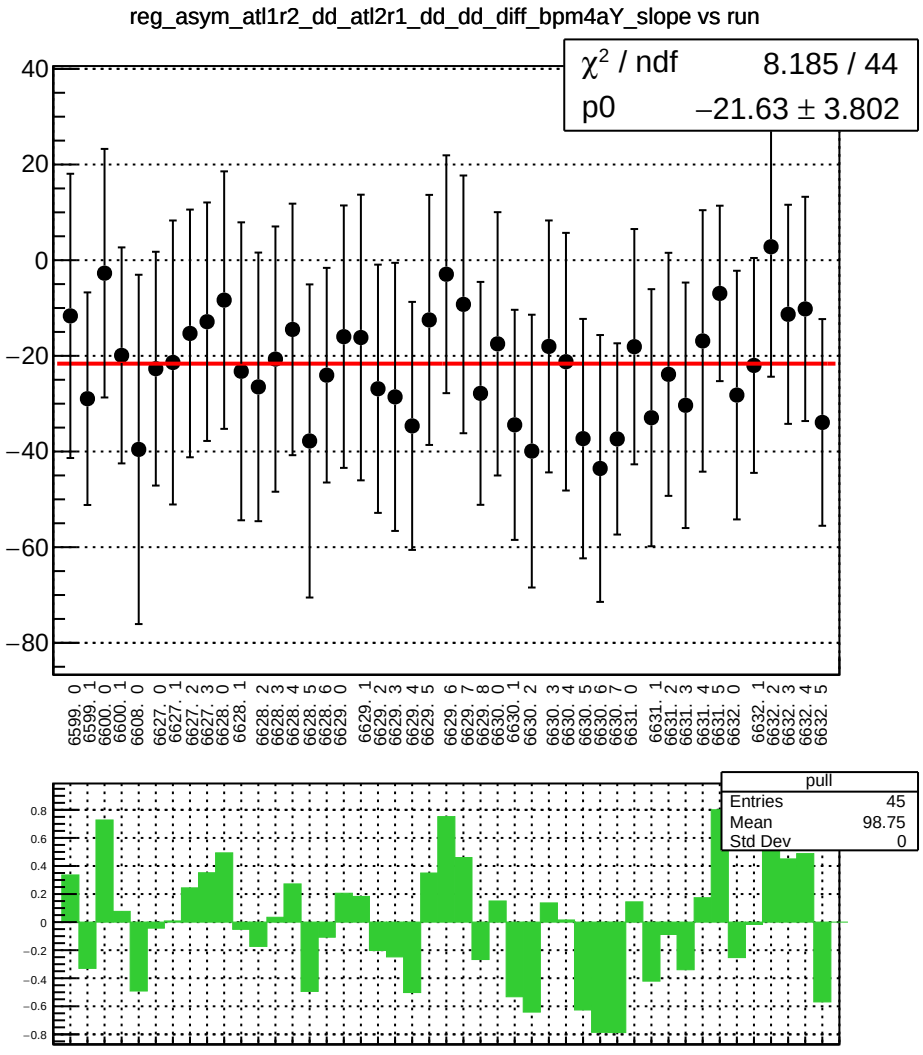
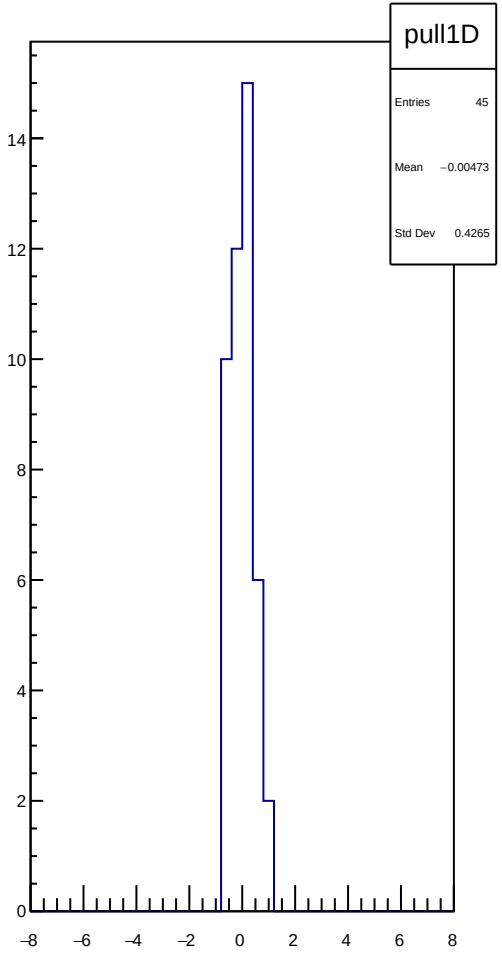
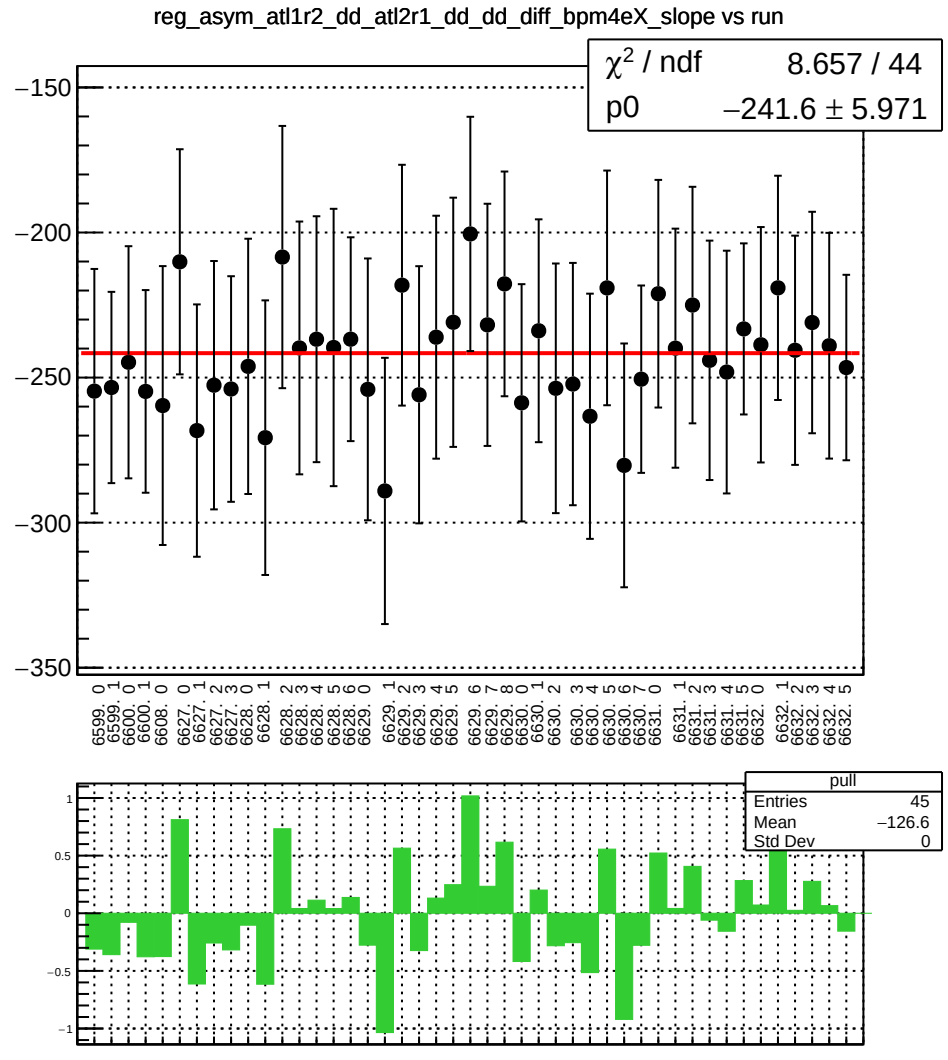

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 9.08 / 44
p0 215.4 ± 5.79
pull
Entries 45
Mean −109.4
Std Dev 0


pull1D
Entries 45
Mean 0.006538
Std Dev 0.4491


reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.185 / 44
p0 −21.63 ± 3.802
pull
Entries 45
Mean 98.75
Std Dev 0


pull1D
Entries 45
Mean −0.00473
Std Dev 0.4265


reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.657 / 44
p0 −241.6 ± 5.971
−150
−200
−250
−300
−350
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
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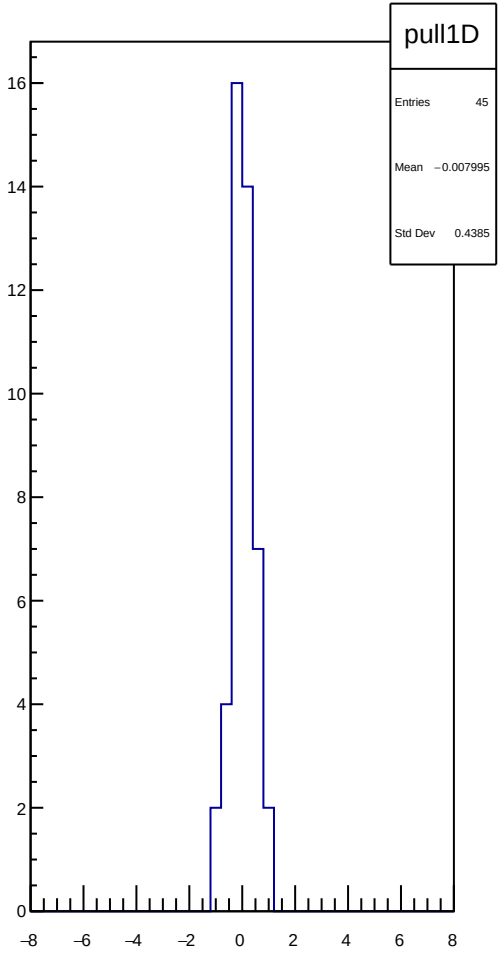
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −126.6
Std Dev 0
1
0.5
0
−0.5
−1


pull1D
Entries 45
Mean −0.007995
Std Dev 0.4385
16
14
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−4
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2
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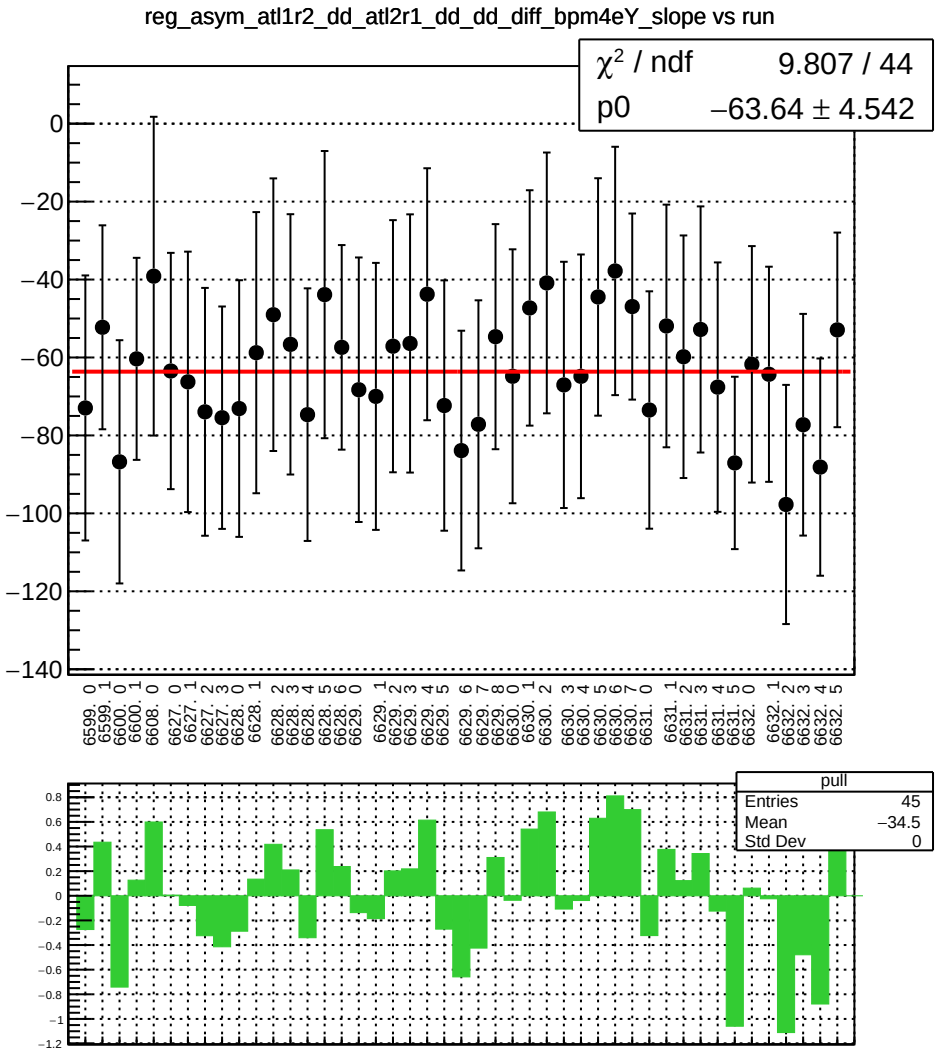
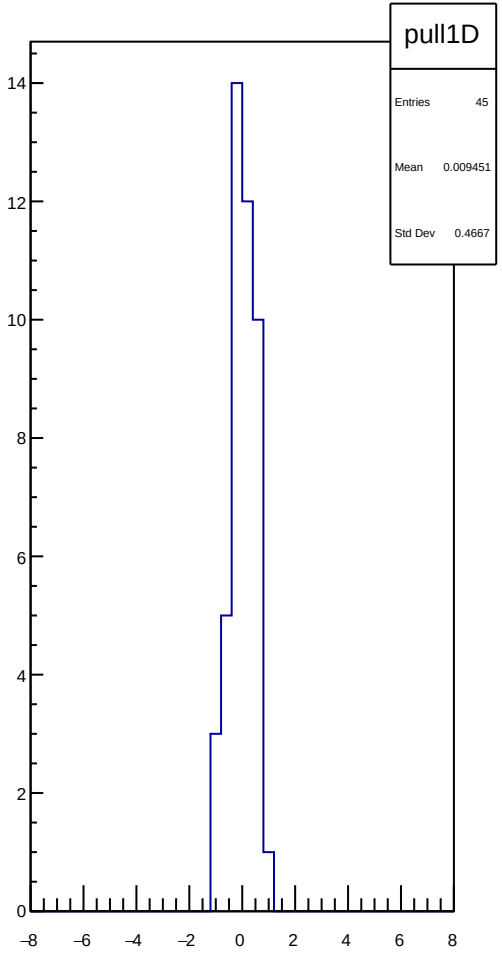
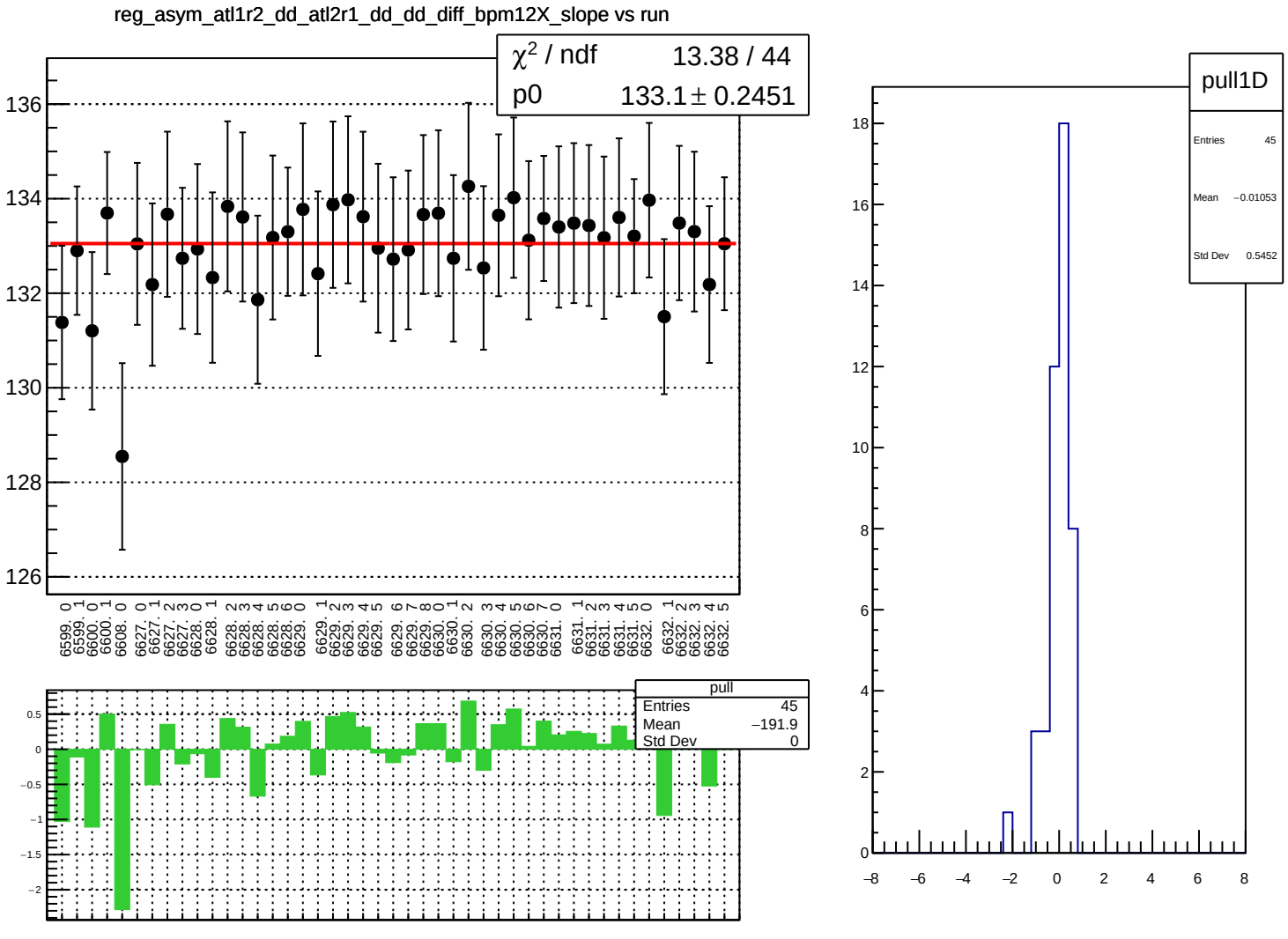

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.807 / 44
p0 −63.64 ± 4.542
pull
Entries 45
Mean −34.5
Std Dev 0


pull1D
Entries 45
Mean 0.009451
Std Dev 0.4667


reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 13.38 / 44
p0 133.1 ± 0.2451
136
134
132
130
128
126
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
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6630. 7
6631. 0
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6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −191.9
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01053
Std Dev 0.5452
18
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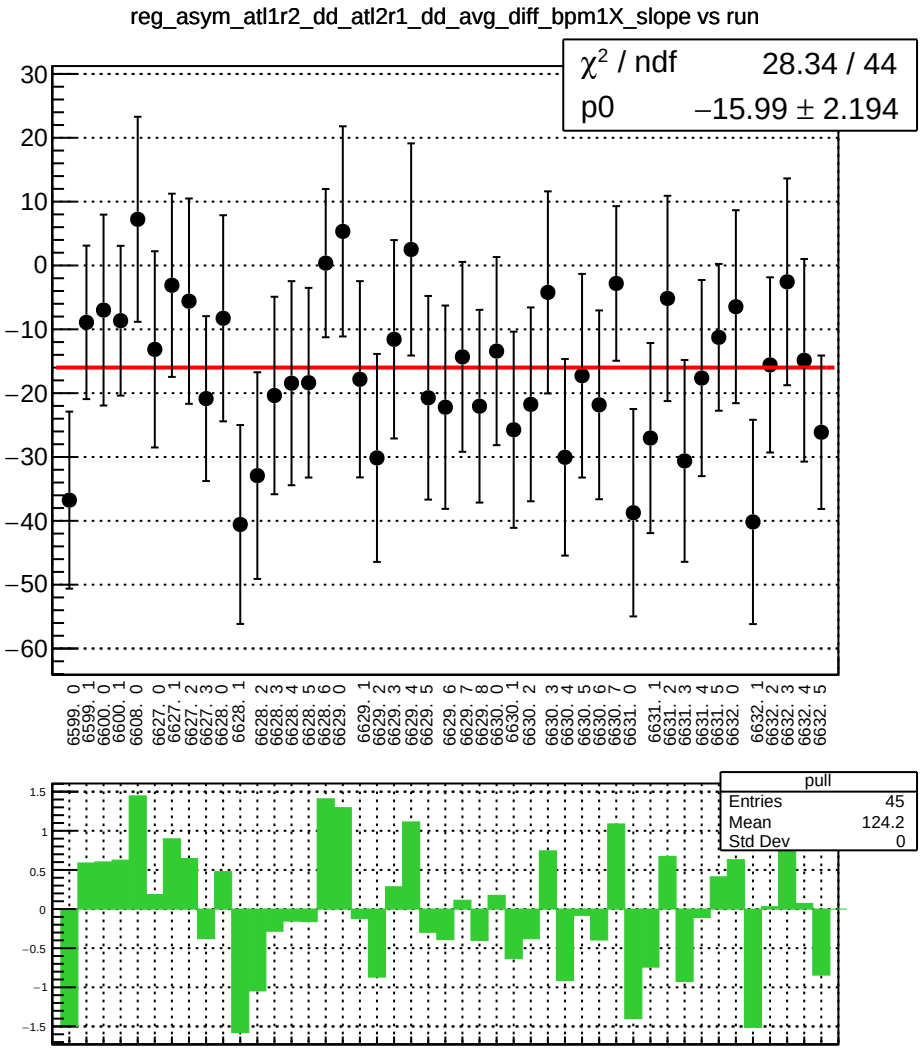
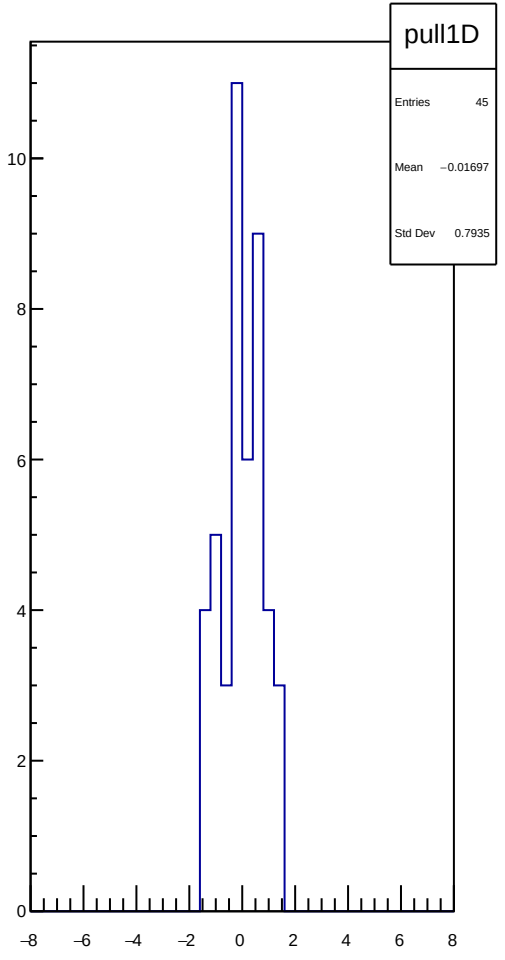
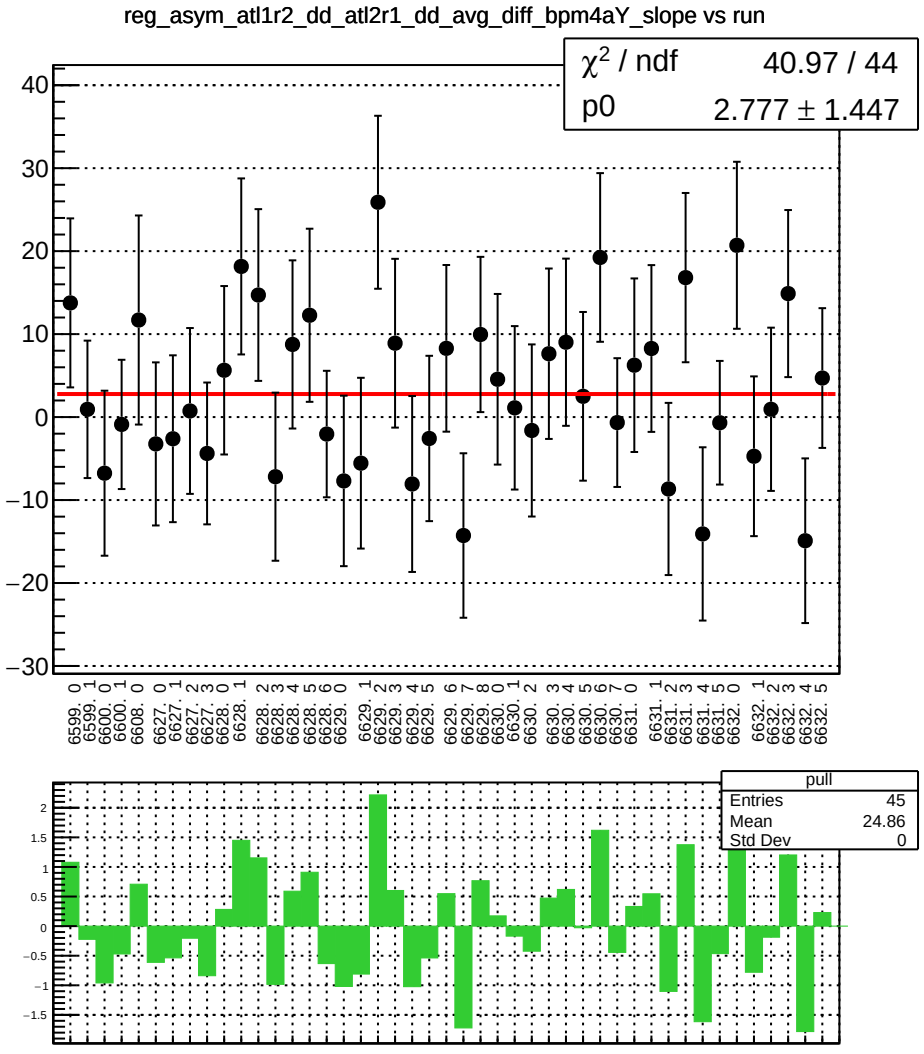
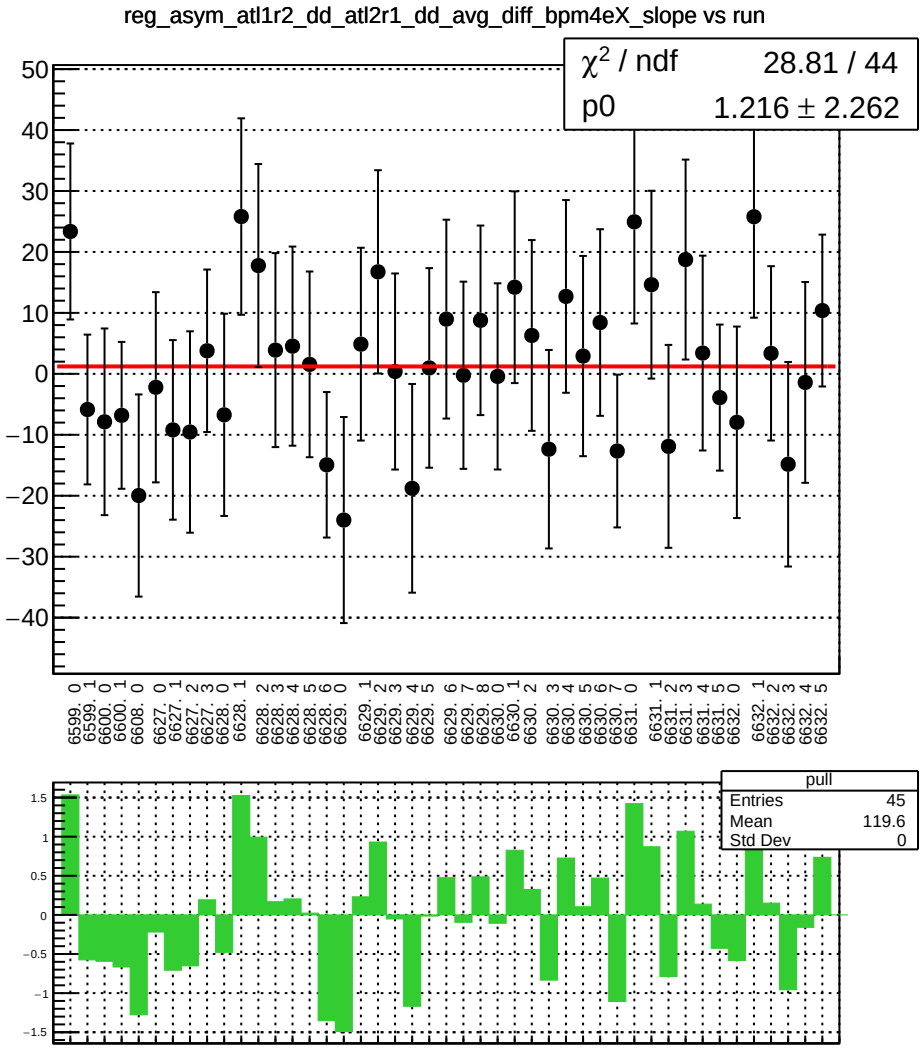
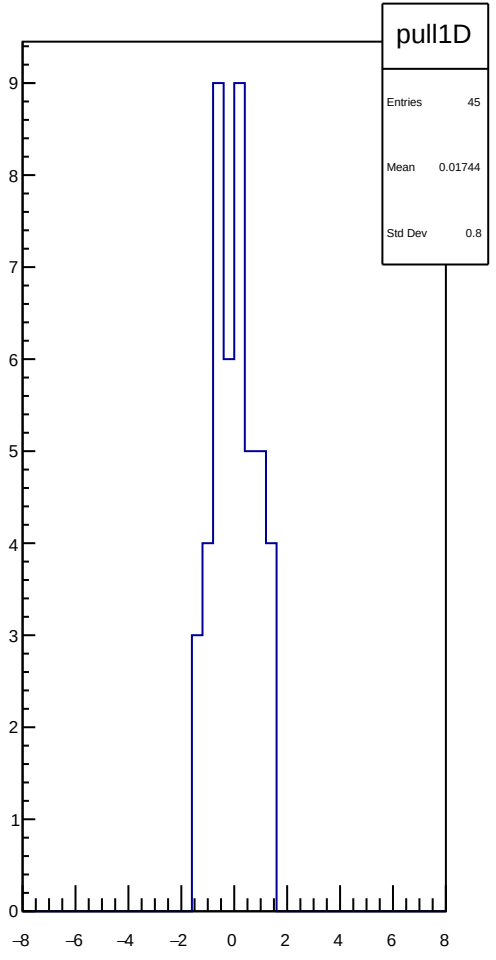
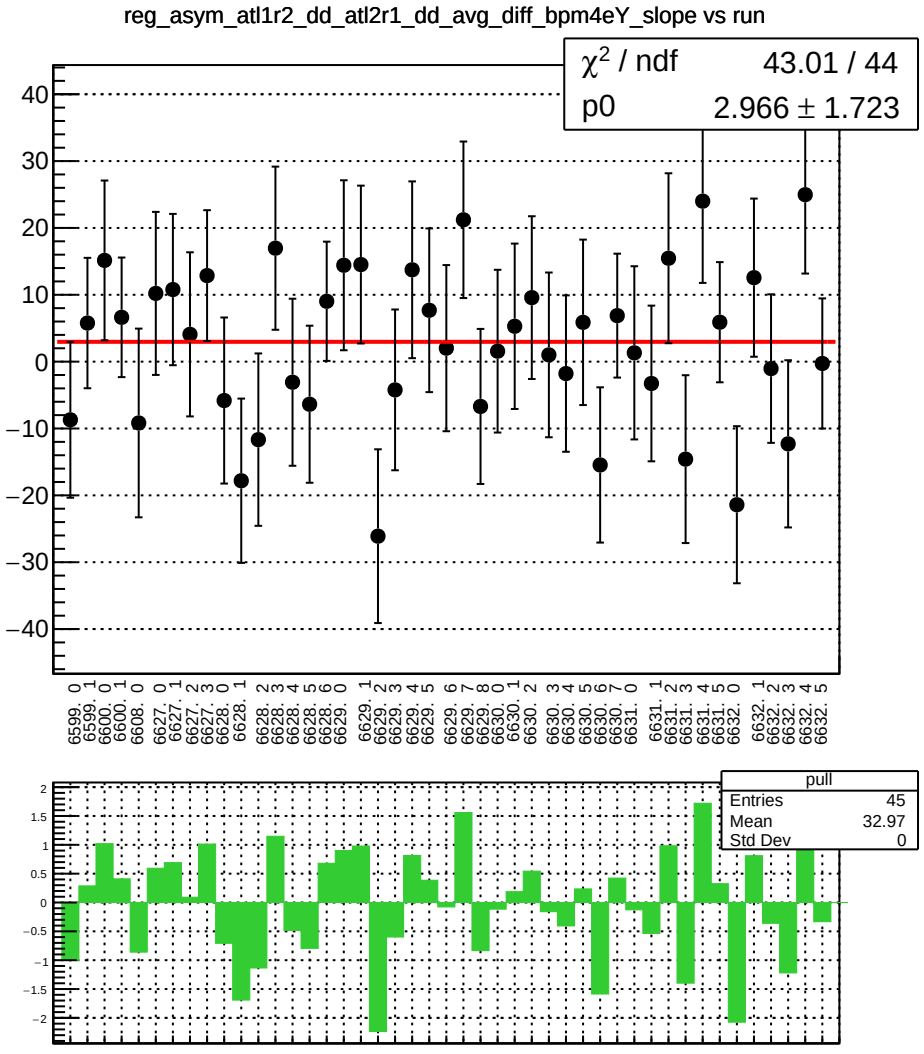

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 28.34 / 44
p0 −15.99 ± 2.194
pull
Entries 45
Mean 124.2
Std Dev 0

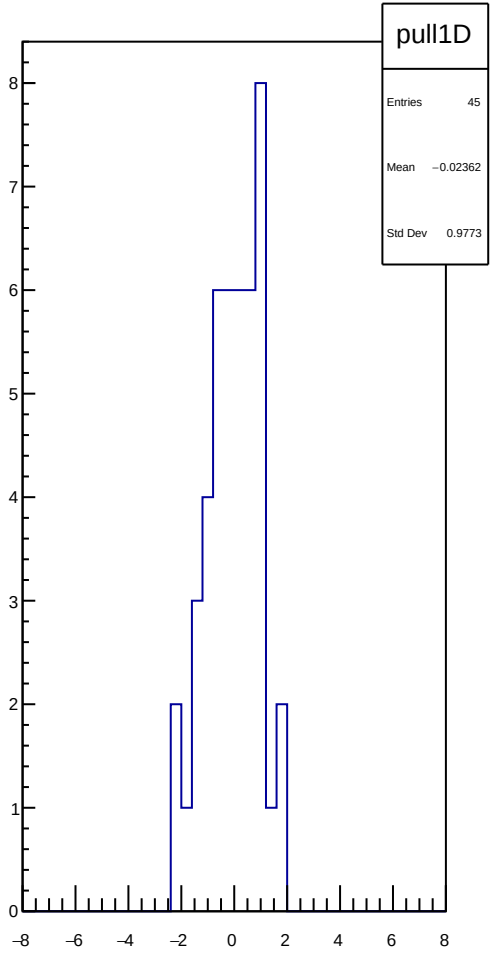

pull1D
Entries 45
Mean −0.01697
Std Dev 0.7935

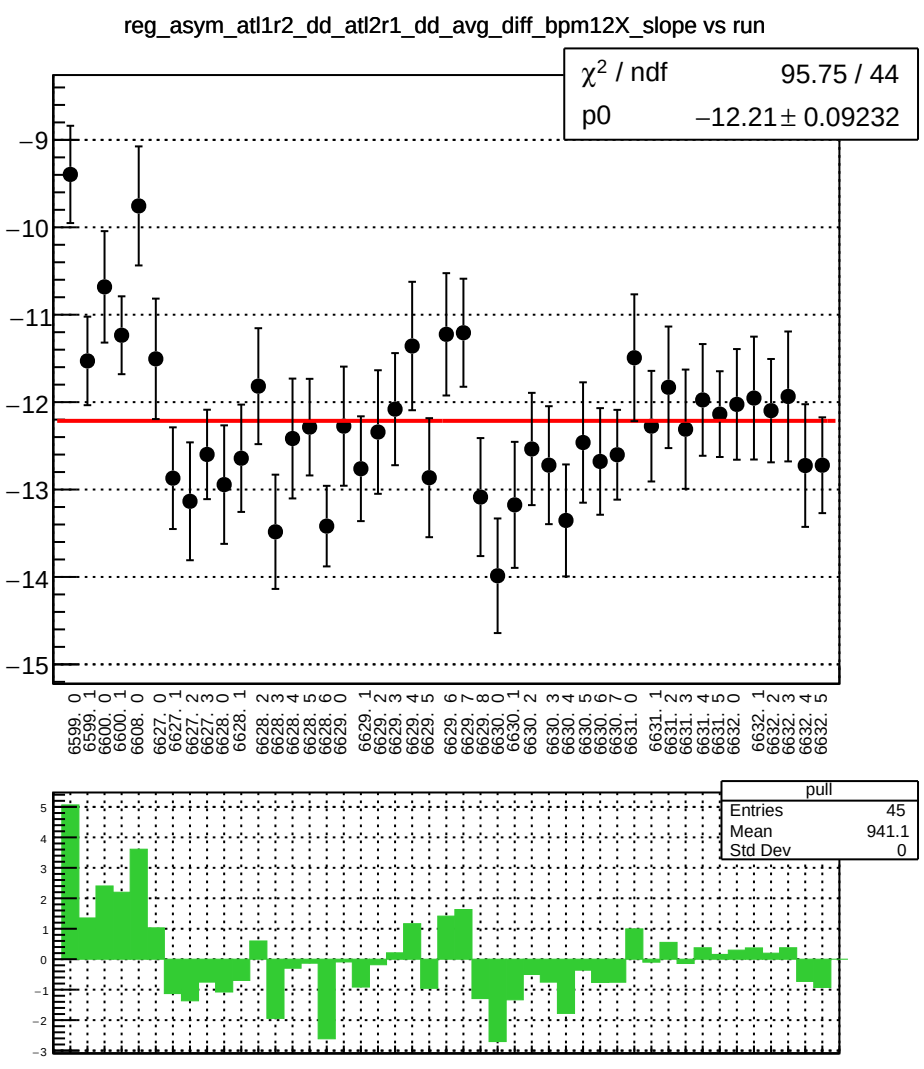

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 40.97 / 44
p0 2.777 ± 1.447
pull
Entries 45
Mean 24.86
Std Dev 0
pull1D
Entries 45
Mean 0.0244
Std Dev 0.9538

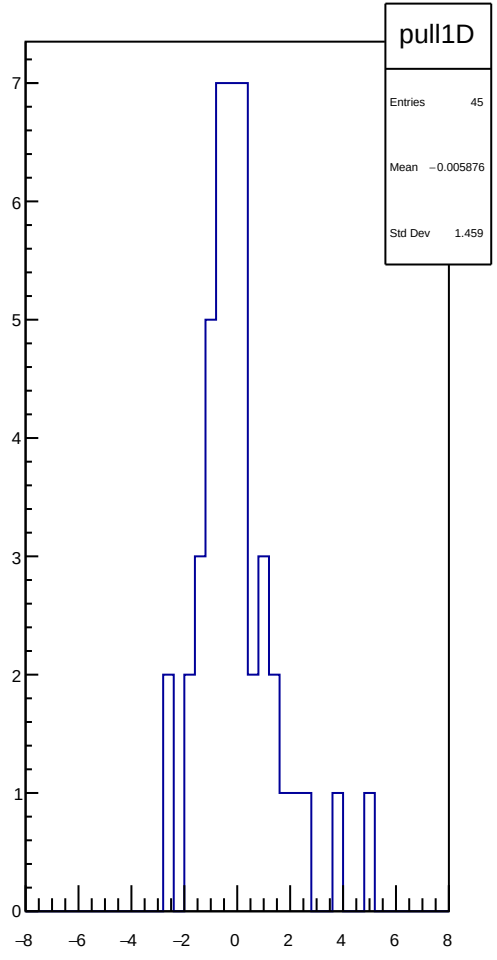

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.81 / 44
p0 1.216 ± 2.262
pull
Entries 45
Mean 119.6
Std Dev 0

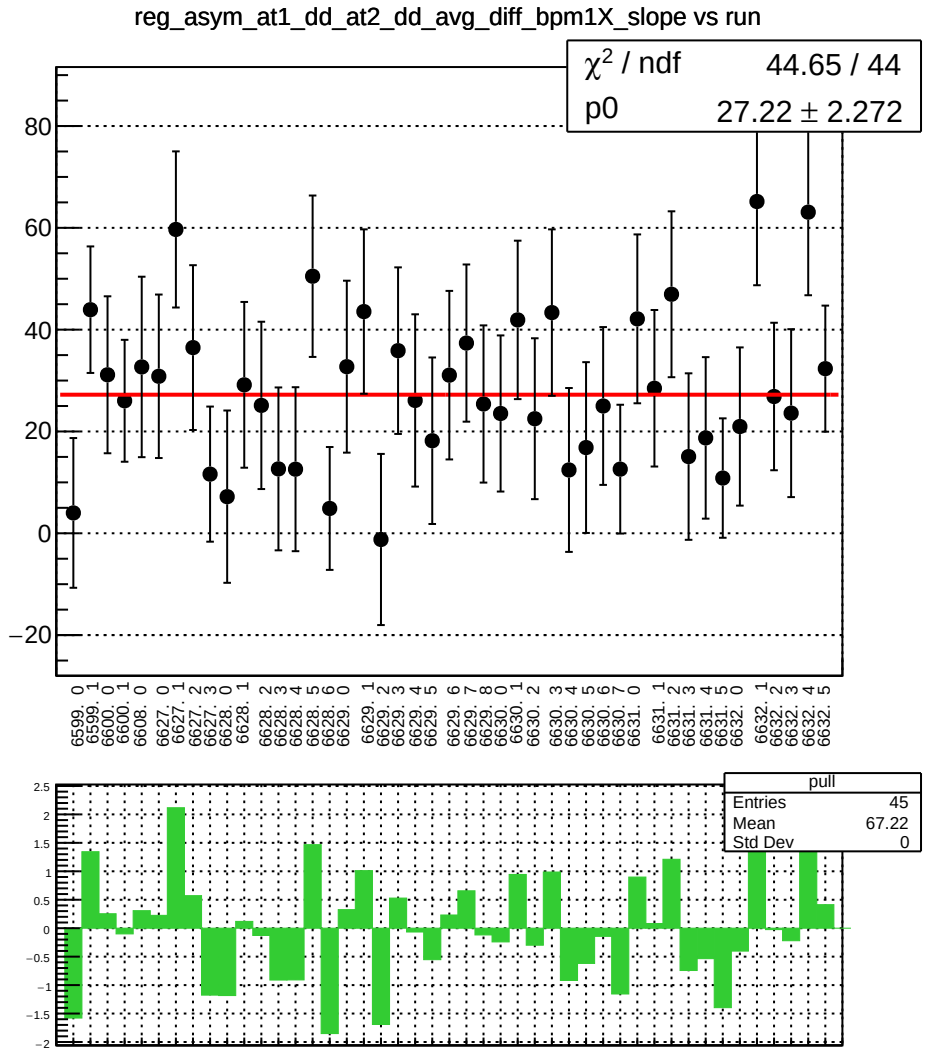

pull1D
Entries 45
Mean 0.01744
Std Dev 0.8

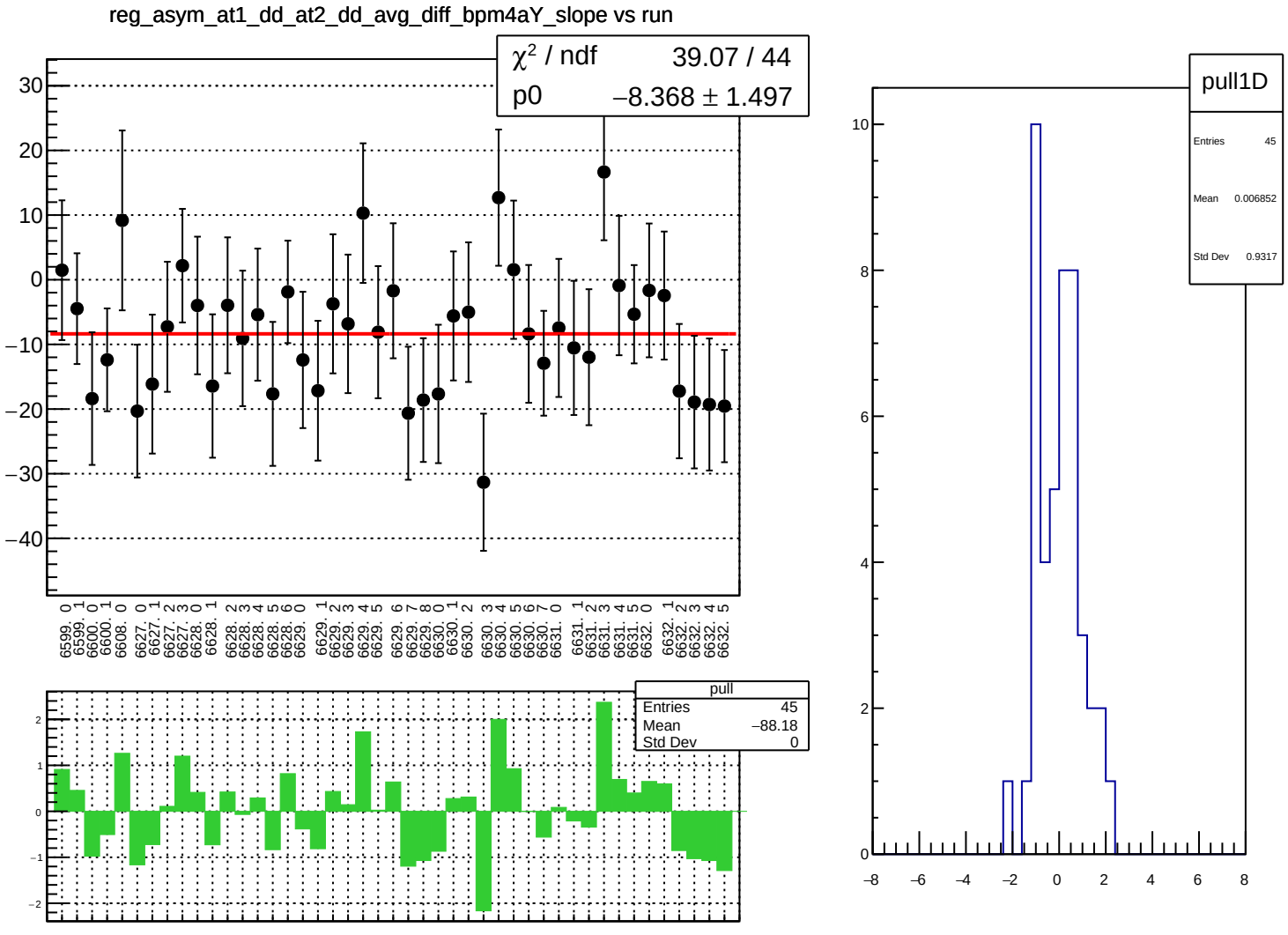

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 43.01 / 44
p0 2.966 ± 1.723
pull
Entries 45
Mean 32.97
Std Dev 0

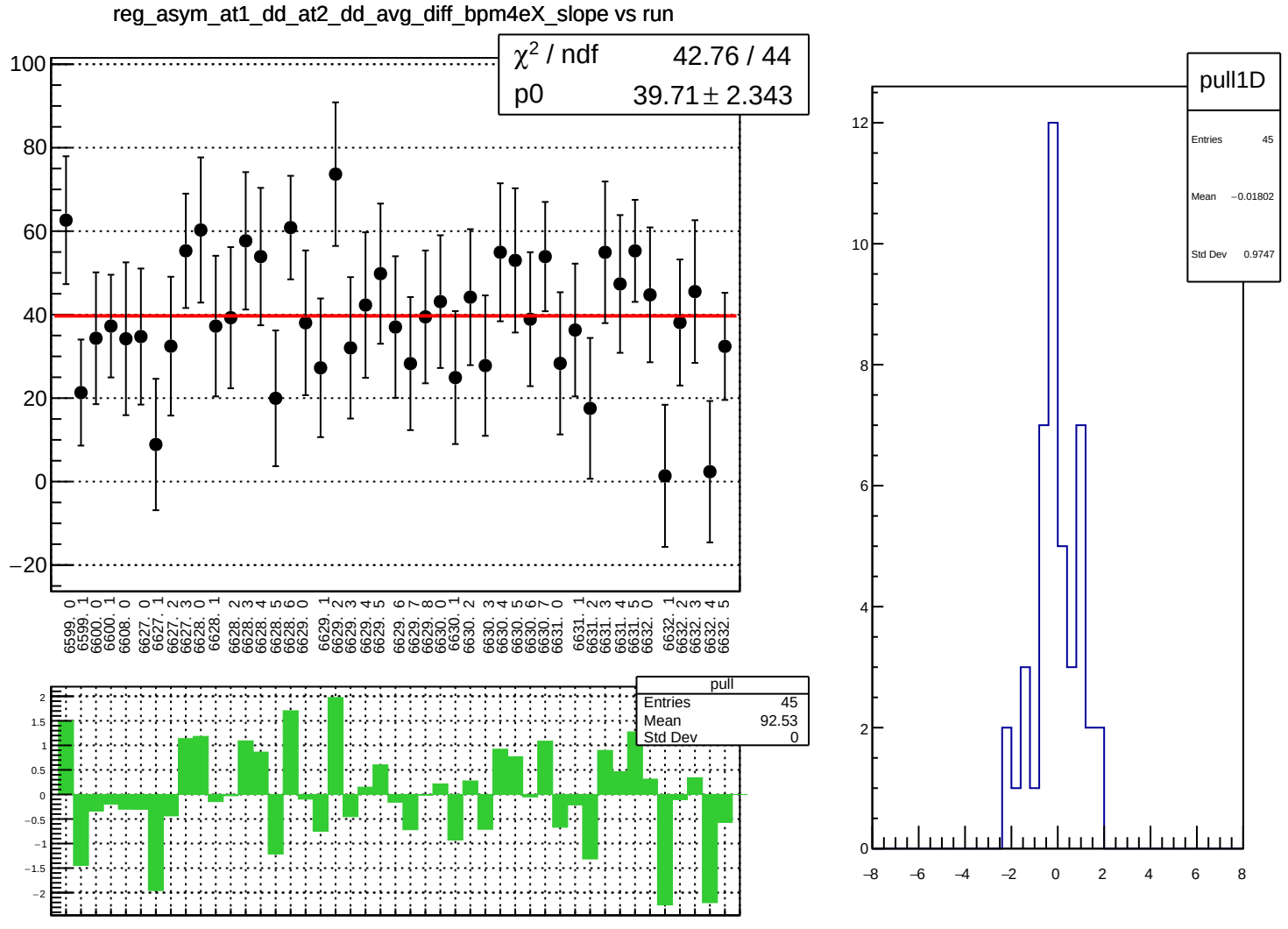

pull1D
Entries 45
Mean −0.02362
Std Dev 0.9773

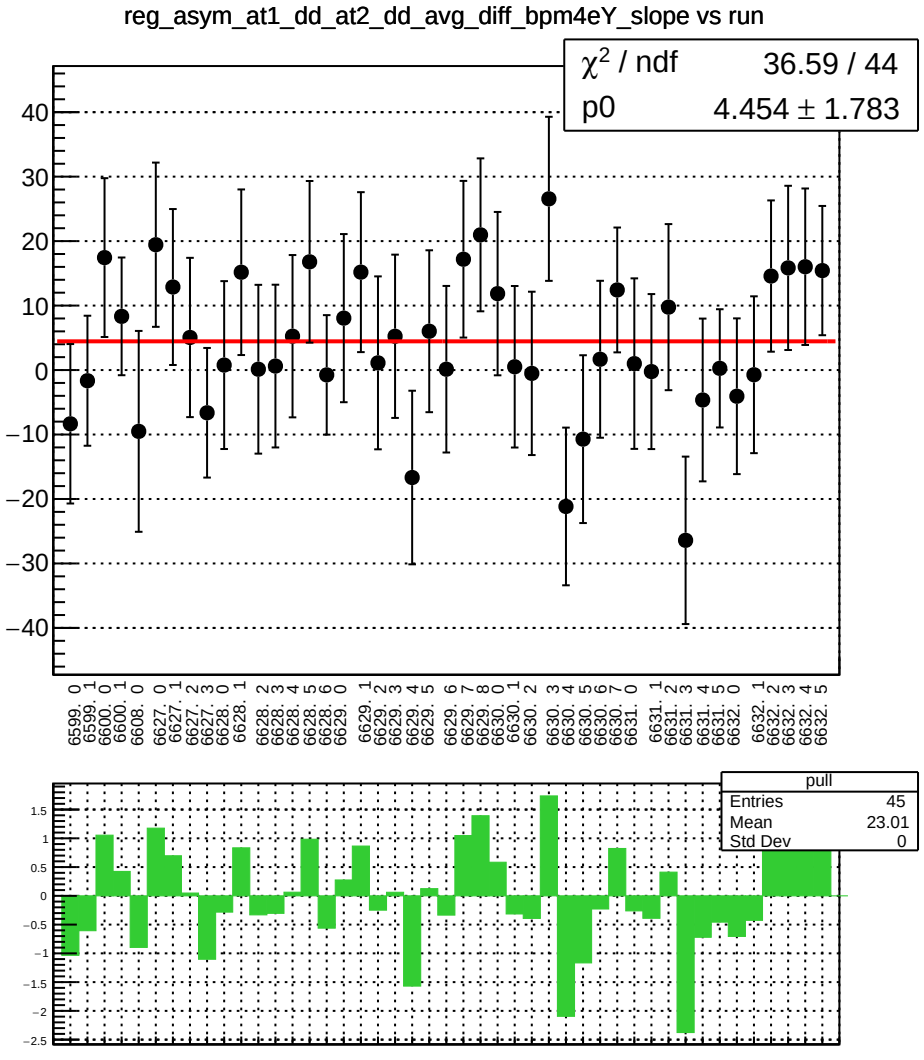

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 95.75 / 44
p0 −12.21 ± 0.09232
pull
Entries 45
Mean 941.1
Std Dev 0

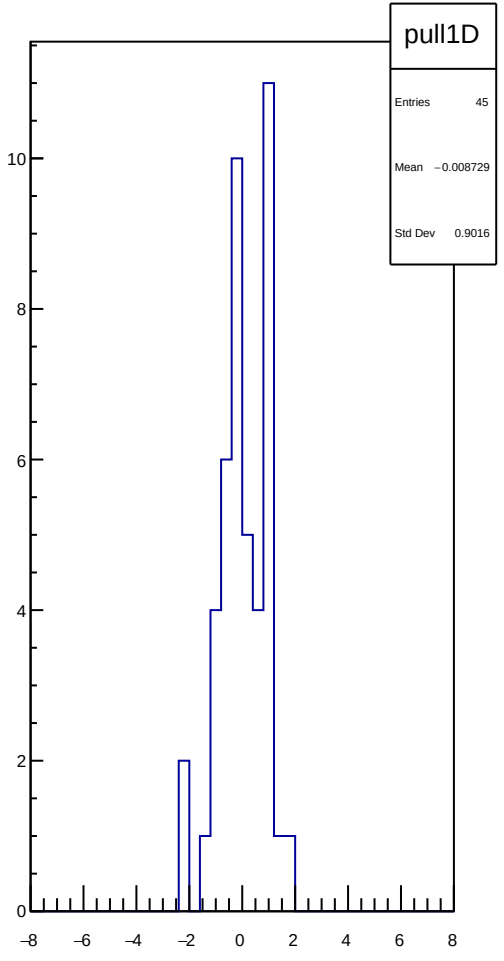

pull1D
Entries 45
Mean −0.005876
Std Dev 1.459

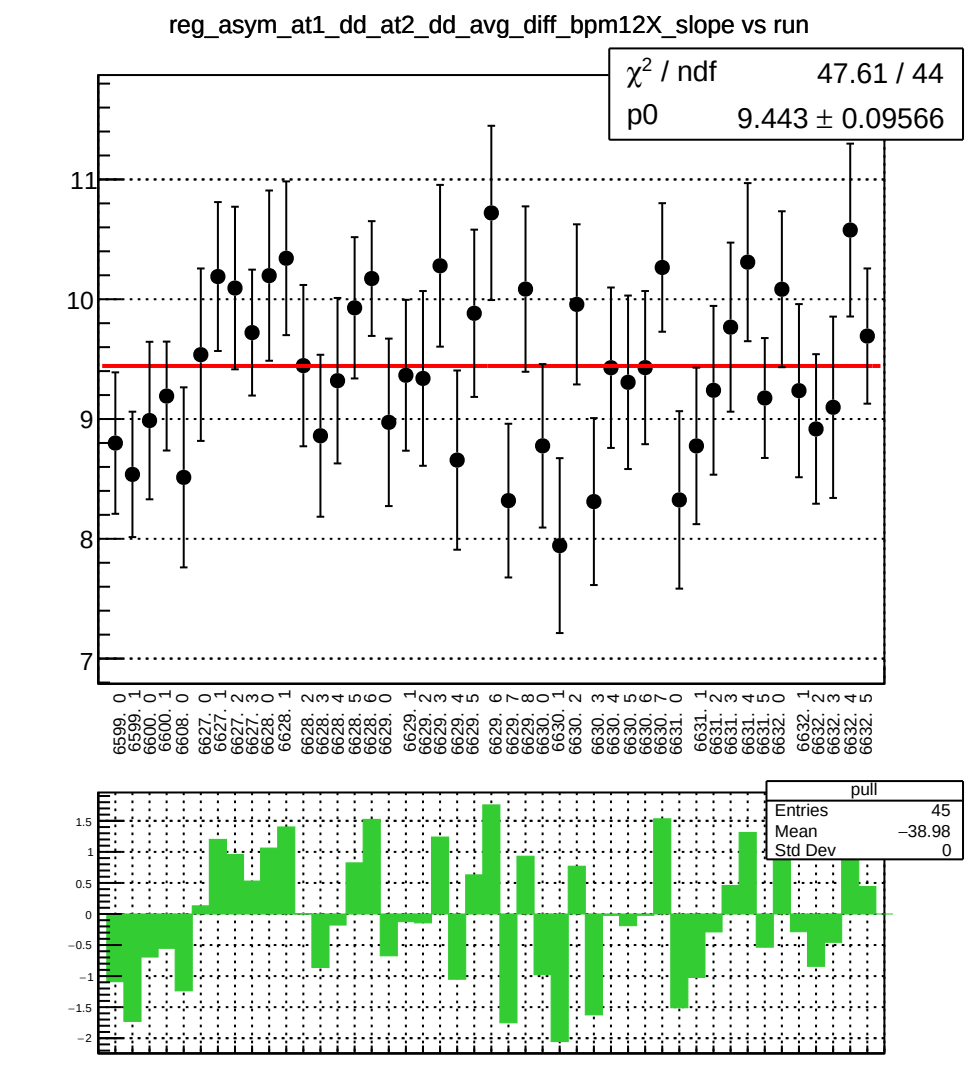

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 44.65 / 44
p0 27.22 ± 2.272
pull
Entries 45
Mean 67.22
Std Dev 0
pull1D
Entries 45
Mean 0.02748
Std Dev 0.9958

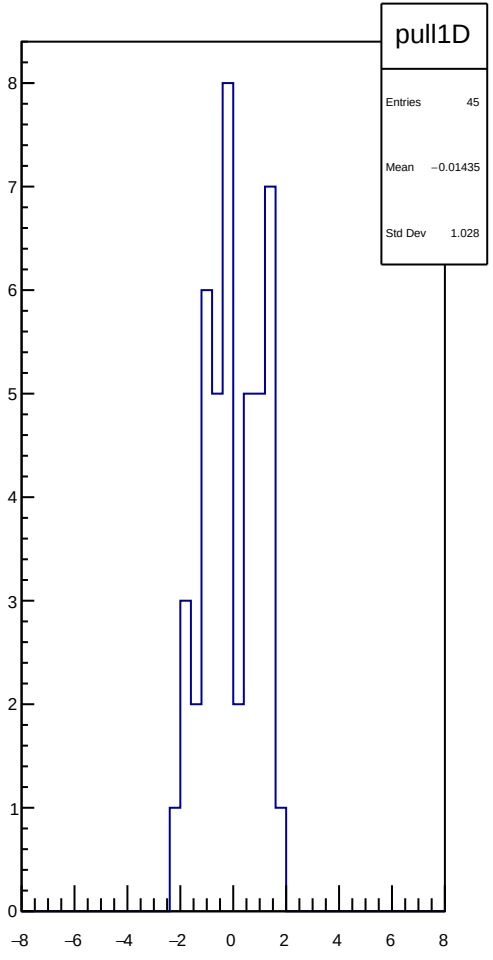

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 39.07 / 44
p0 −8.368 ± 1.497
pull
Entries 45
Mean −88.18
Std Dev 0
pull1D
Entries 45
Mean 0.006852
Std Dev 0.9317

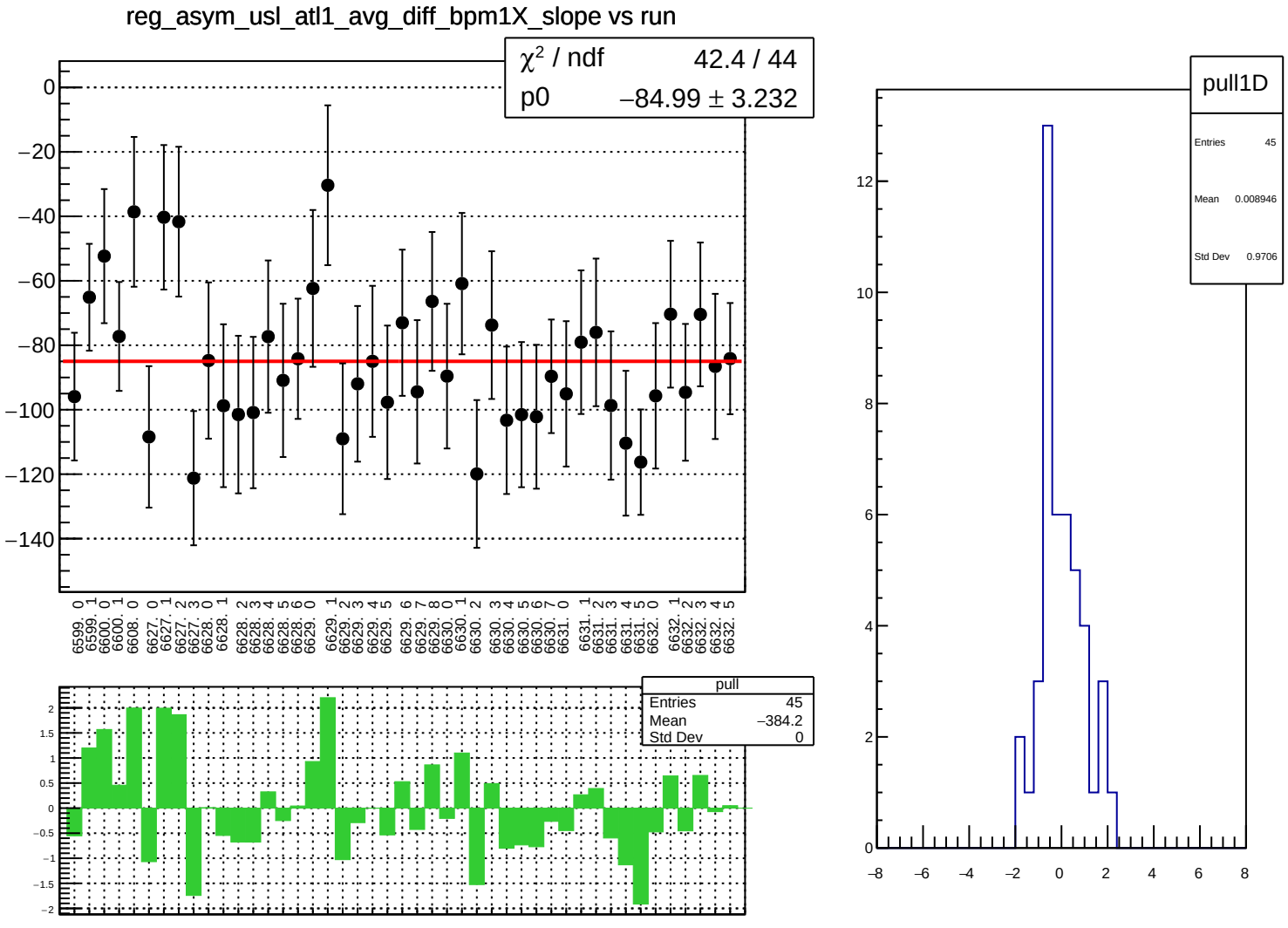

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 42.76 / 44
p0 39.71 ± 2.343
pull
Entries 45
Mean 92.53
Std Dev 0
pull1D
Entries 45
Mean −0.01802
Std Dev 0.9747

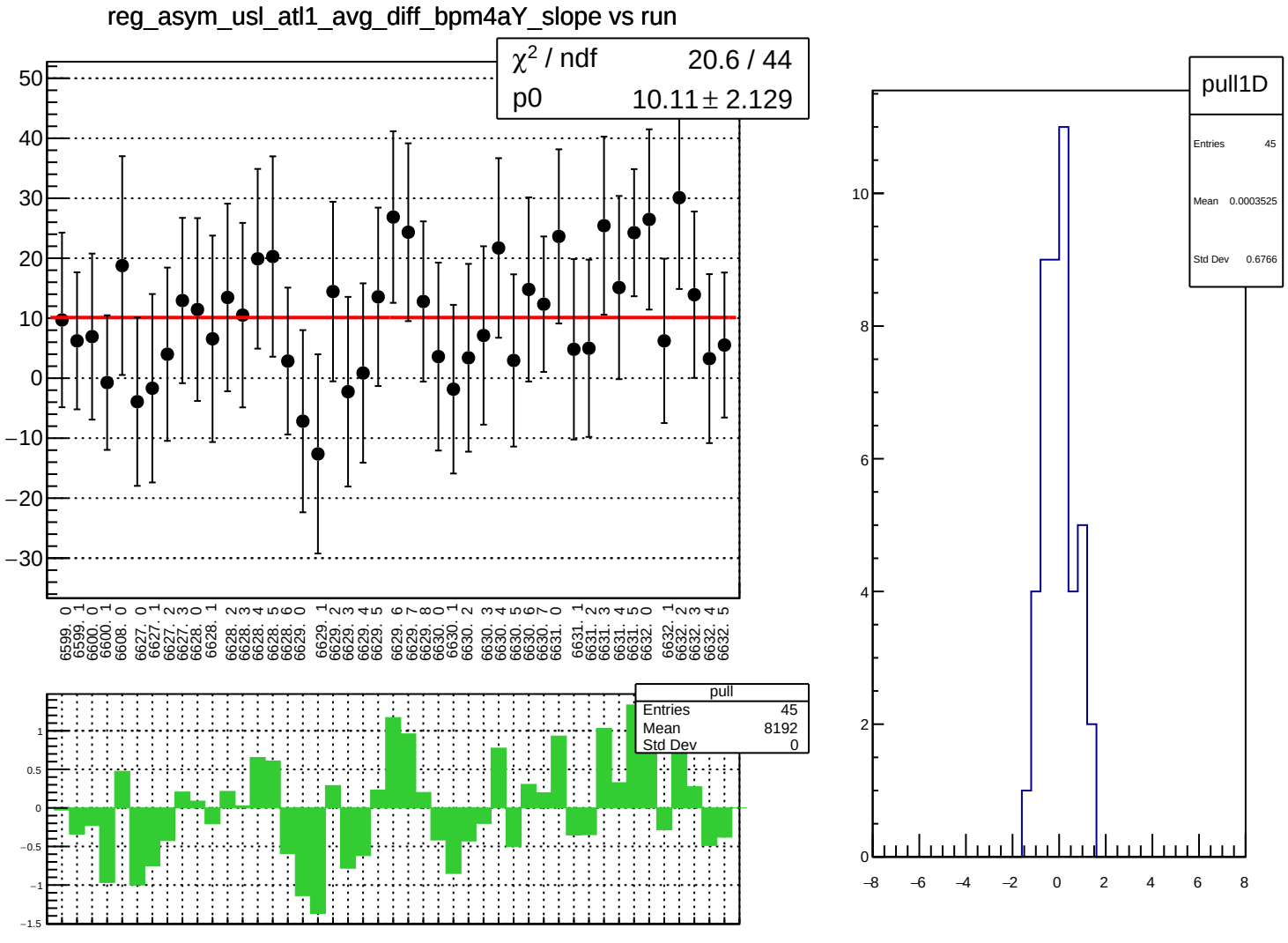

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 36.59 / 44
p0 4.454 ± 1.783
pull
Entries 45
Mean 23.01
Std Dev 0

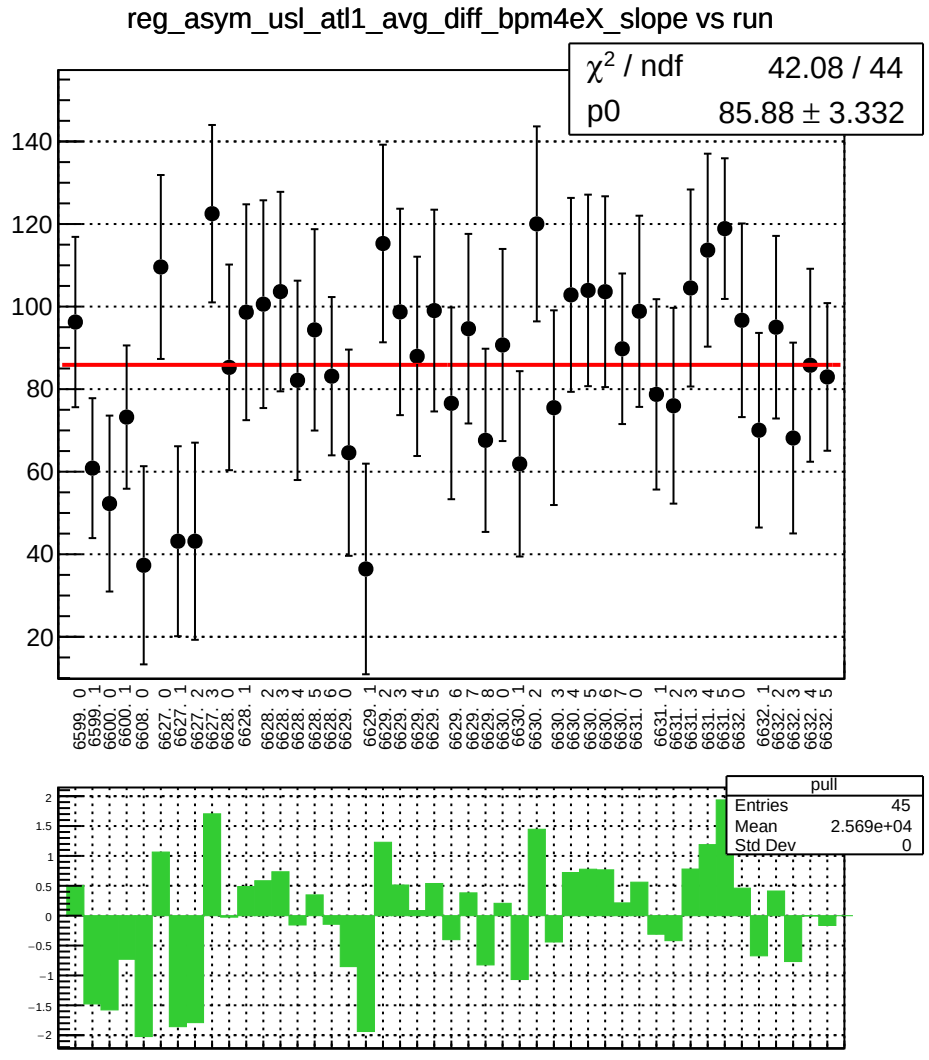

pull1D
Entries 45
Mean −0.008729
Std Dev 0.9016

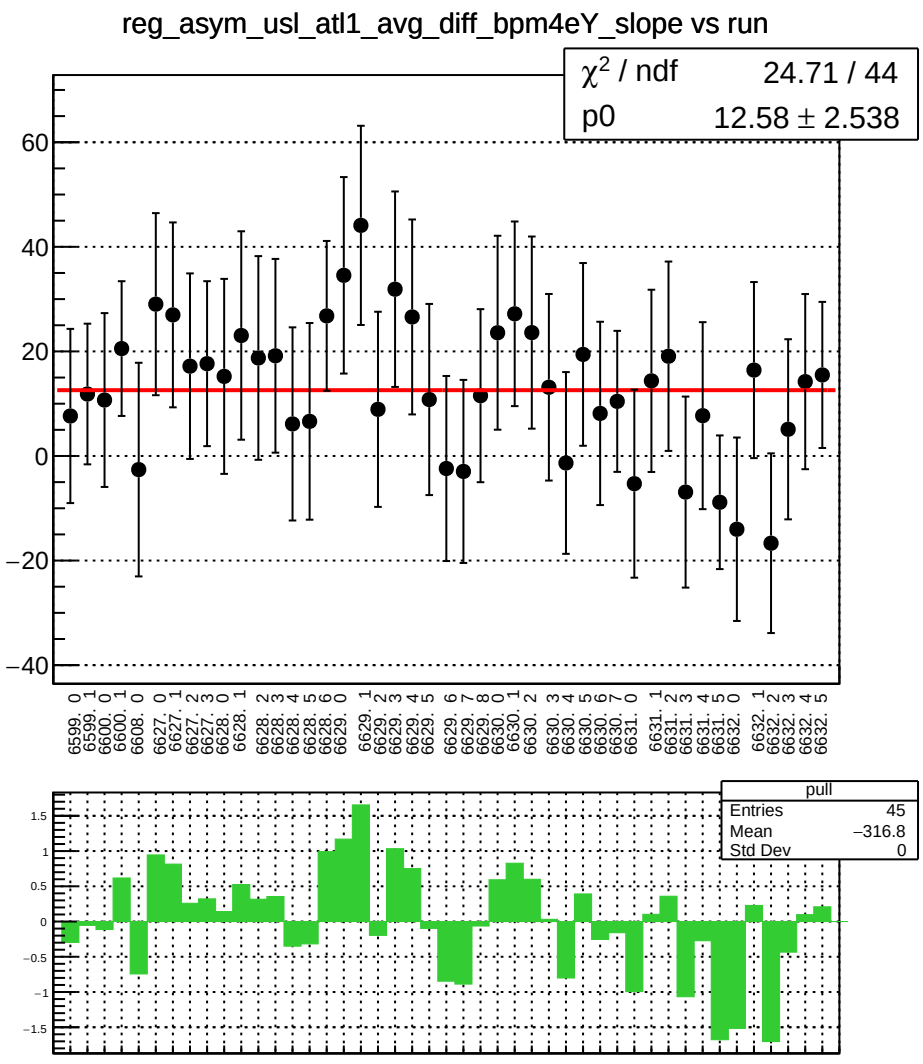

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 47.61 / 44
p0 9.443 ± 0.09566
pull
Entries 45
Mean −38.98
Std Dev 0

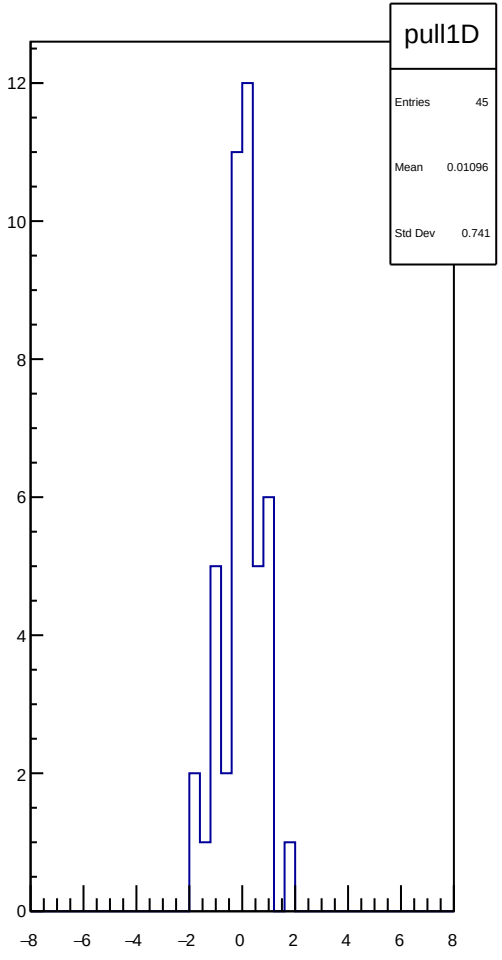

pull1D
Entries 45
Mean −0.01435
Std Dev 1.028

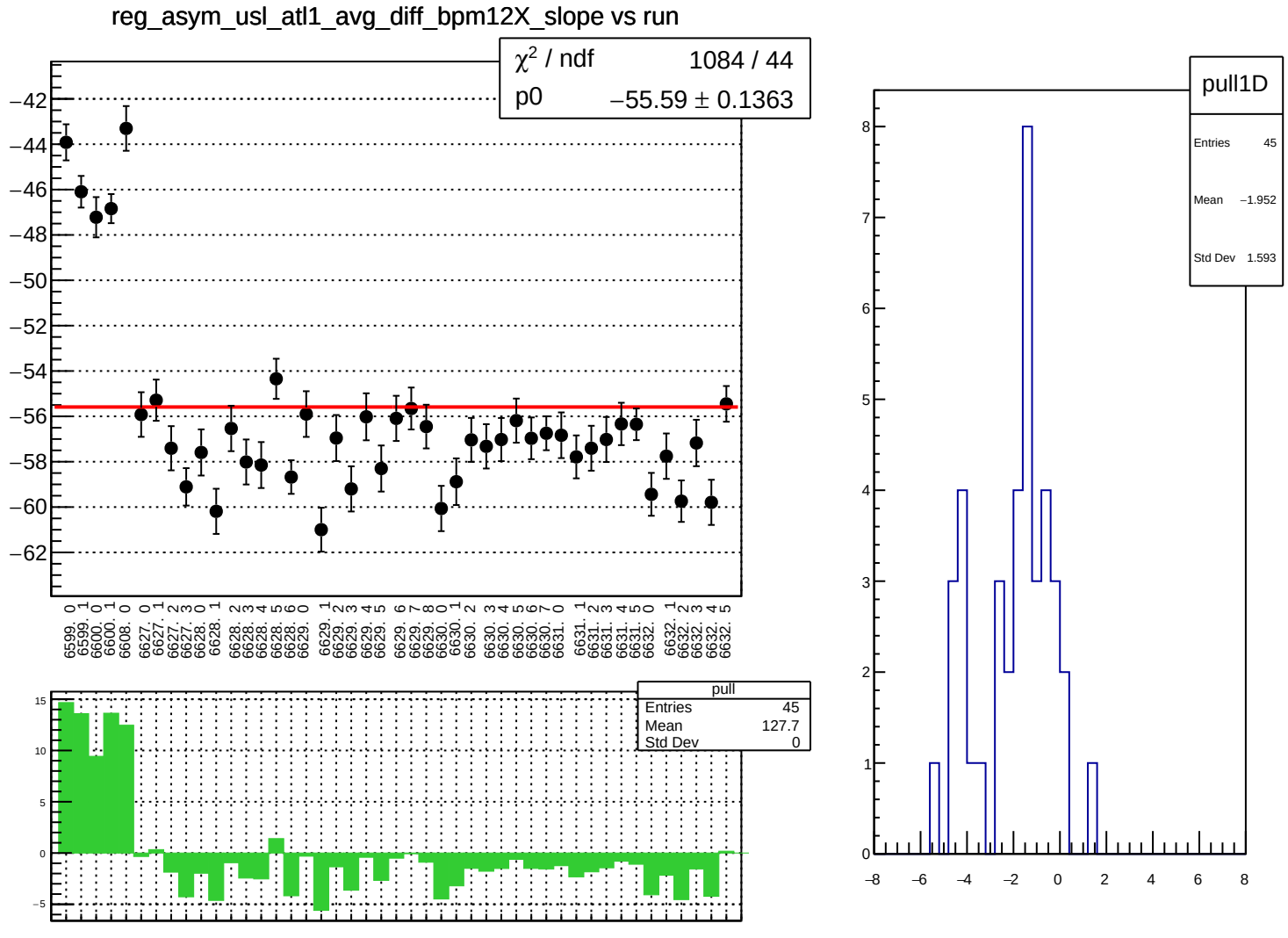

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 42.4 / 44
p0 −84.99 ± 3.232
0
−20
−40
−60
−80
−100
−120
−140
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −384.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.008946
Std Dev 0.9706
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

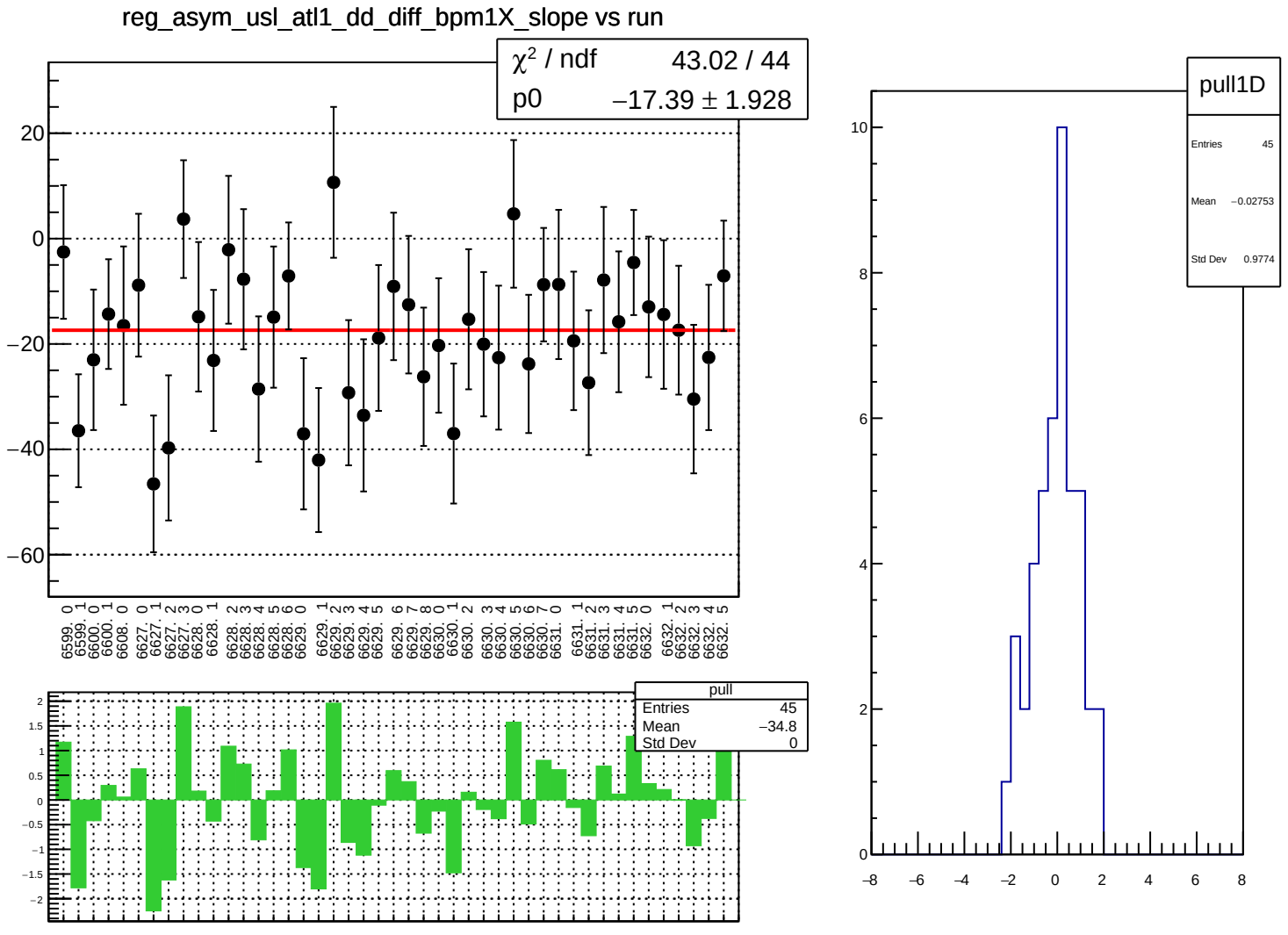

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.6 / 44
p0 10.11 ± 2.129
pull
Entries 45
Mean 8192
Std Dev 0
pull1D
Entries 45
Mean 0.0003525
Std Dev 0.6766


reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 42.08 / 44
p0 85.88 ± 3.332
140
120
100
80
60
40
20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 2.569e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.0001434
Std Dev 0.9671
12
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 24.71 / 44
p0 12.58 ± 2.538
pull
Entries 45
Mean −316.8
Std Dev 0


pull1D
Entries 45
Mean 0.01096
Std Dev 0.741


reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 1084 / 44
p0 −55.59 ± 0.1363
pull
Entries 45
Mean 127.7
Std Dev 0
pull1D
Entries 45
Mean −1.952
Std Dev 1.593


reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 43.02 / 44
p0 −17.39 ± 1.928
20
0
−20
−40
−60
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
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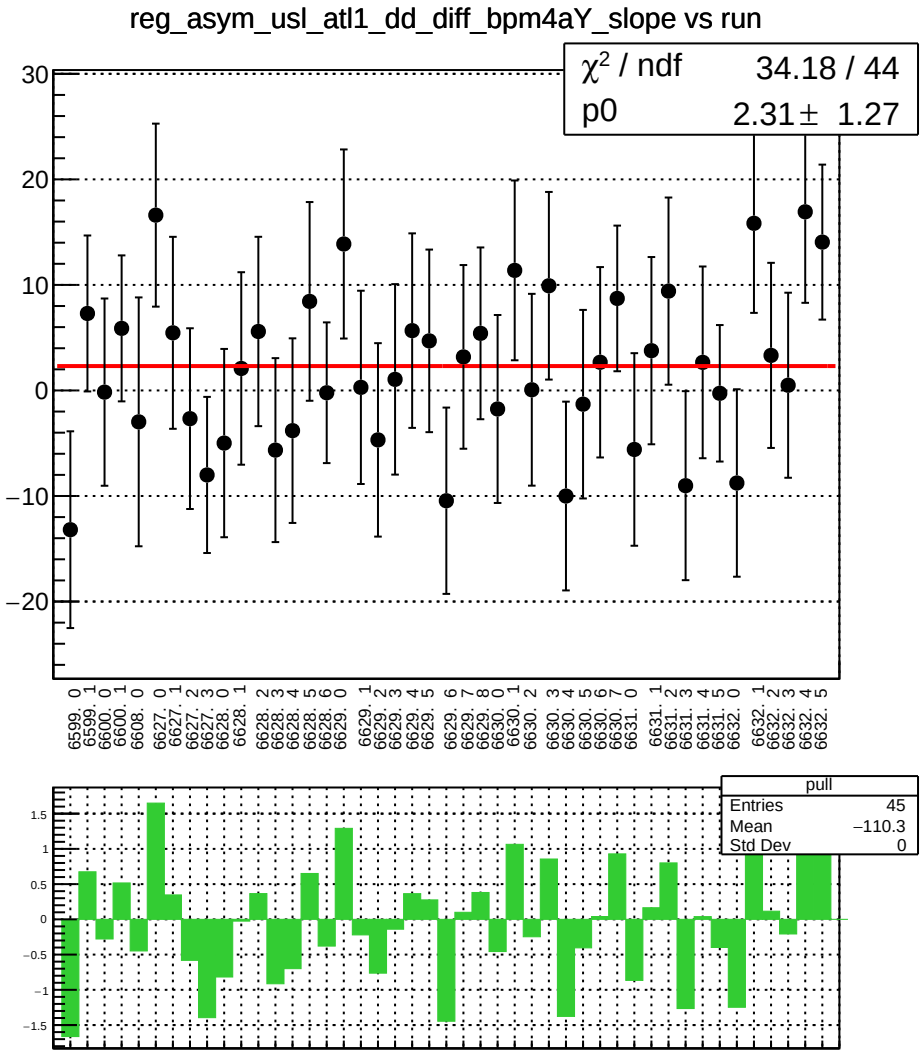
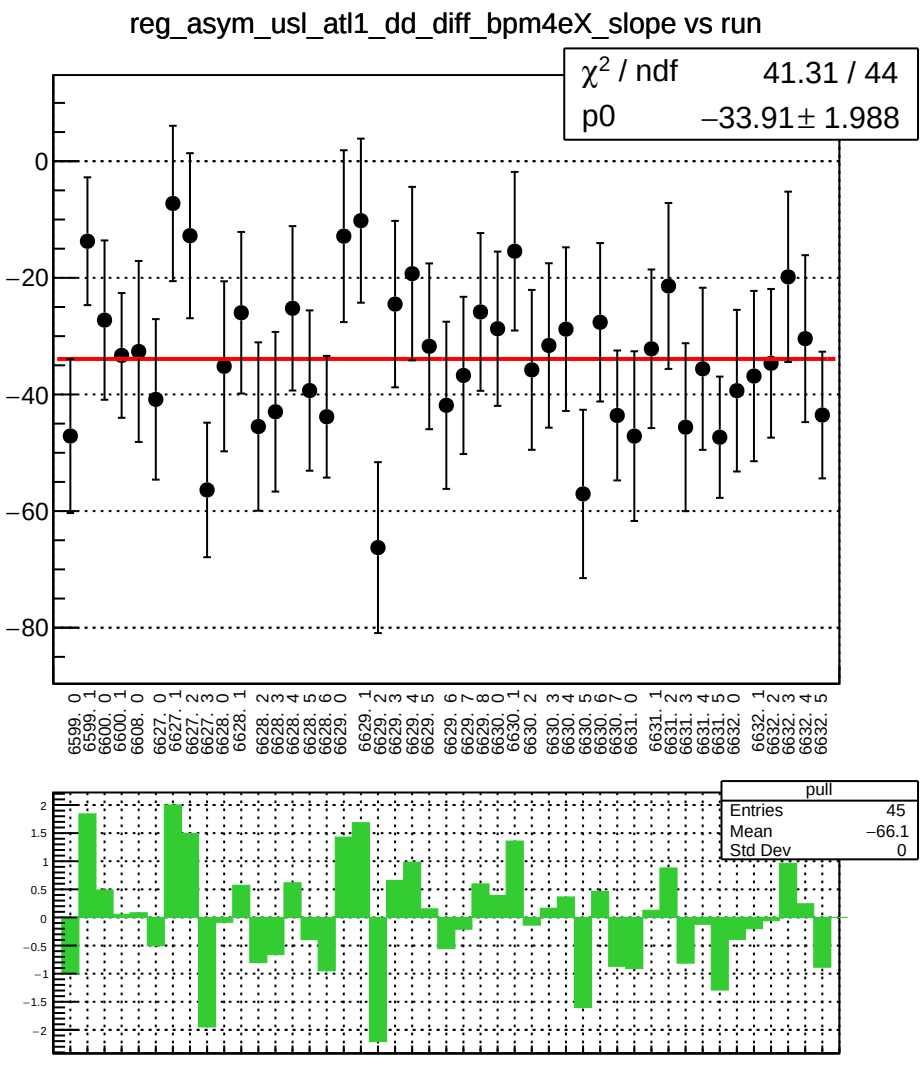
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −34.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.02753
Std Dev 0.9774
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 34.18 / 44
p0 2.31 ± 1.27
pull
Entries 45
Mean −110.3
Std Dev 0
pull1D
Entries 45
Mean −0.01617
Std Dev 0.8714


reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 41.31 / 44
p0 −33.91± 1.988
0
−20
−40
−60
−80
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
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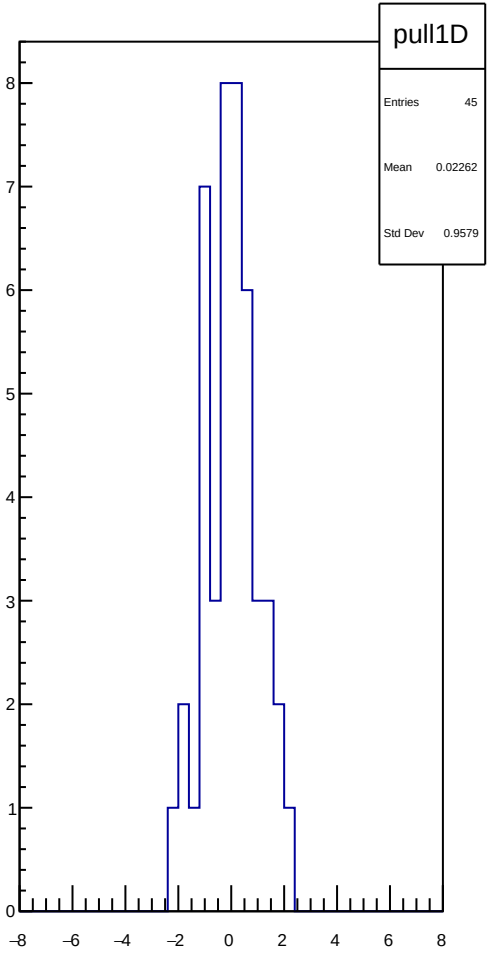
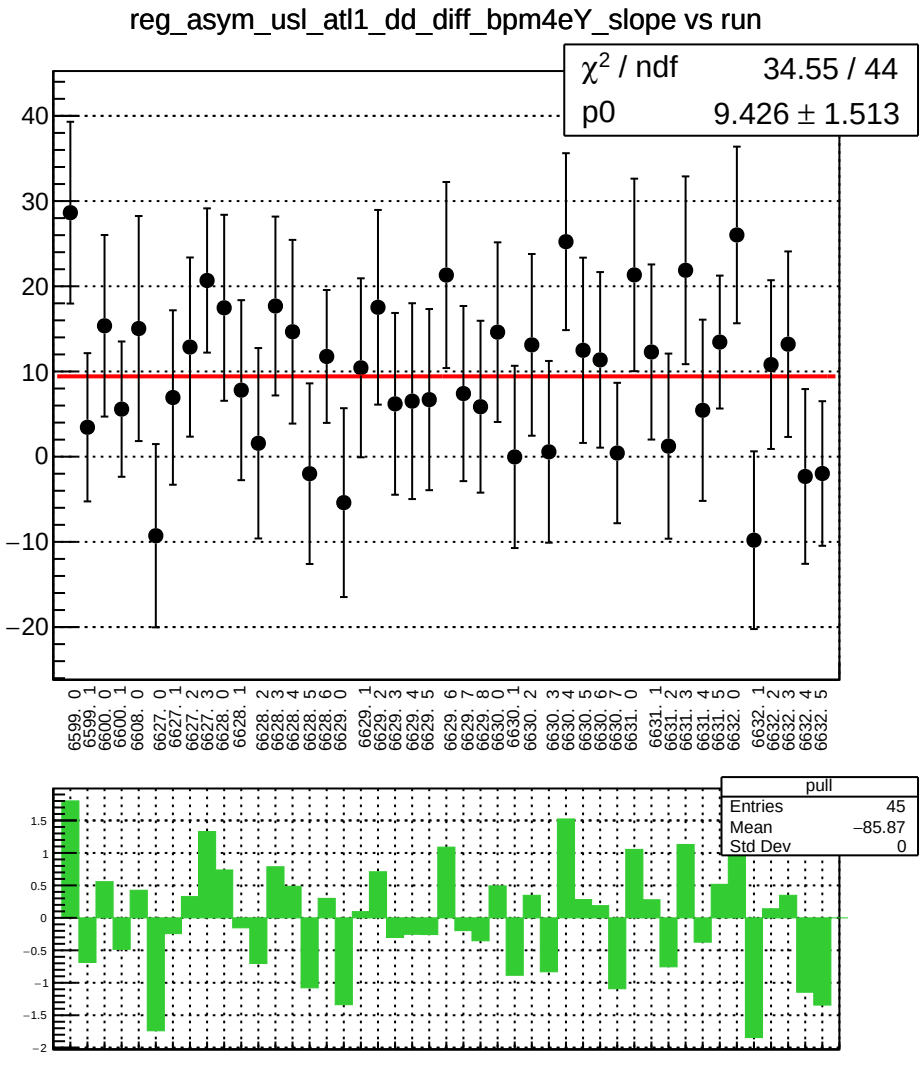
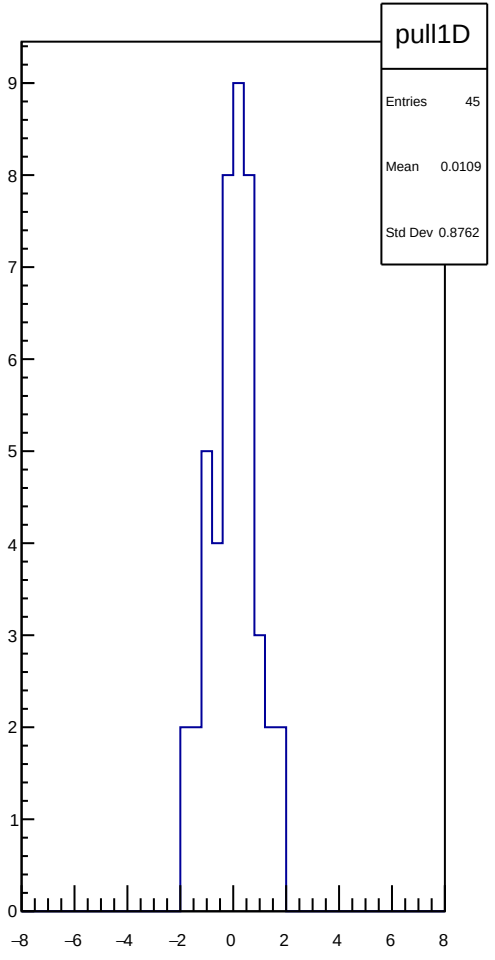
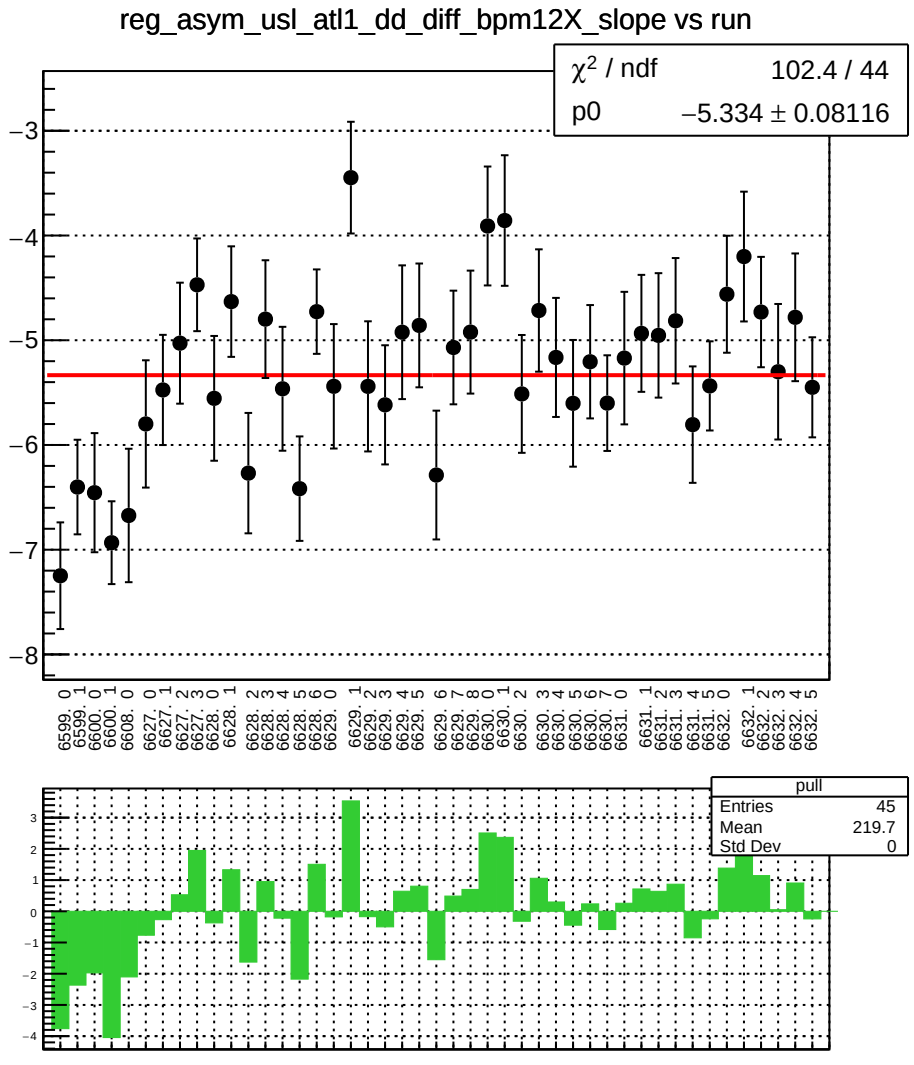
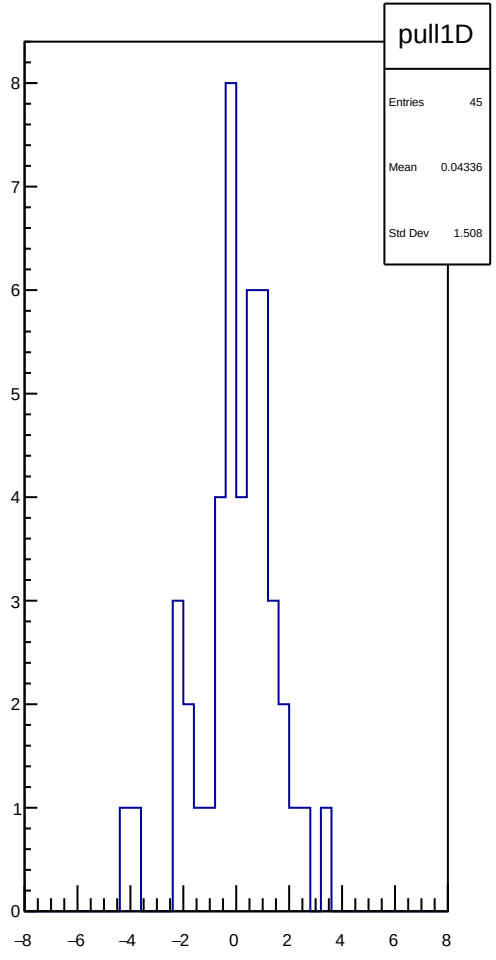
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −66.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

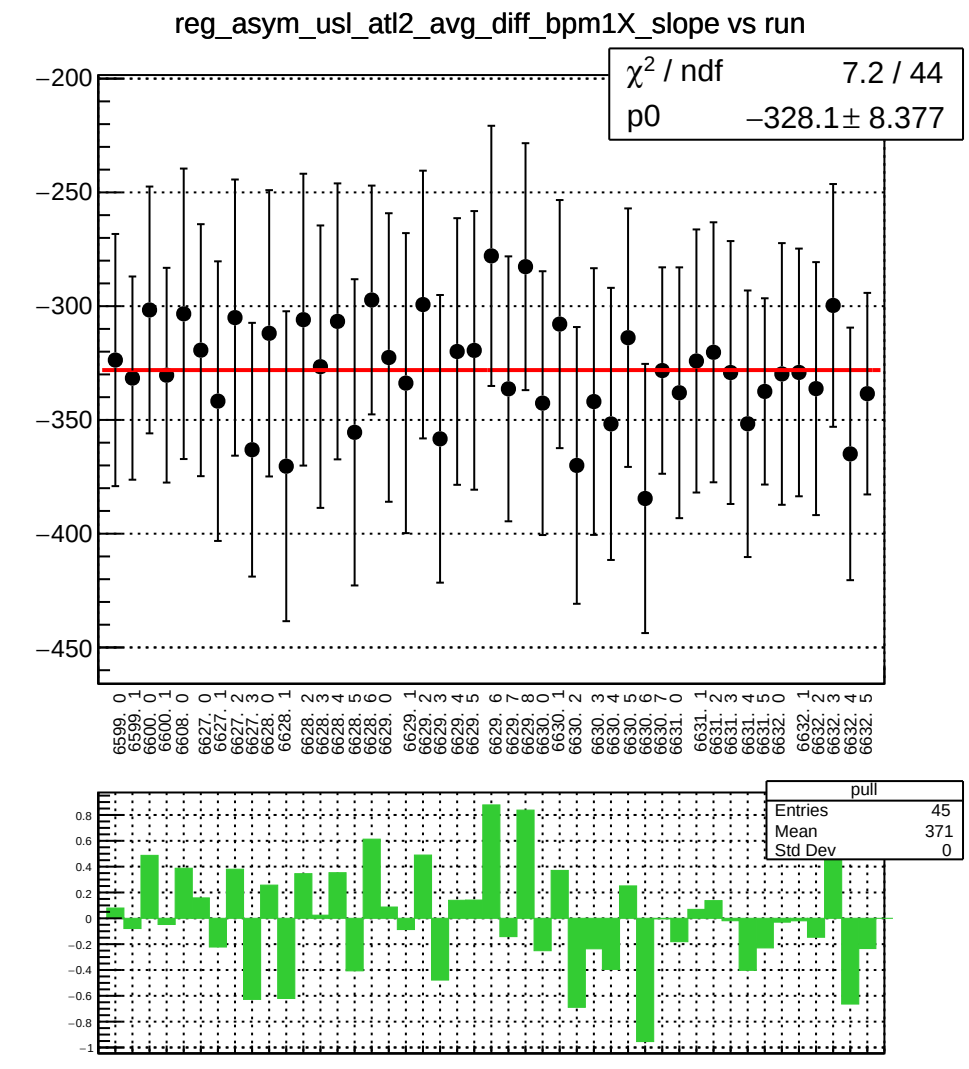

pull1D
Entries 45
Mean 0.02262
Std Dev 0.9579
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

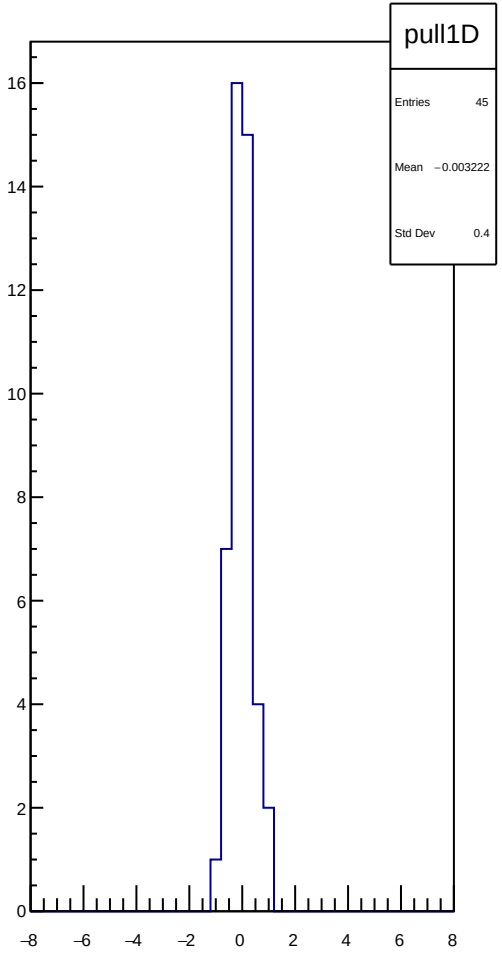

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 34.55 / 44
p0 9.426 ± 1.513
pull
Entries 45
Mean −85.87
Std Dev 0

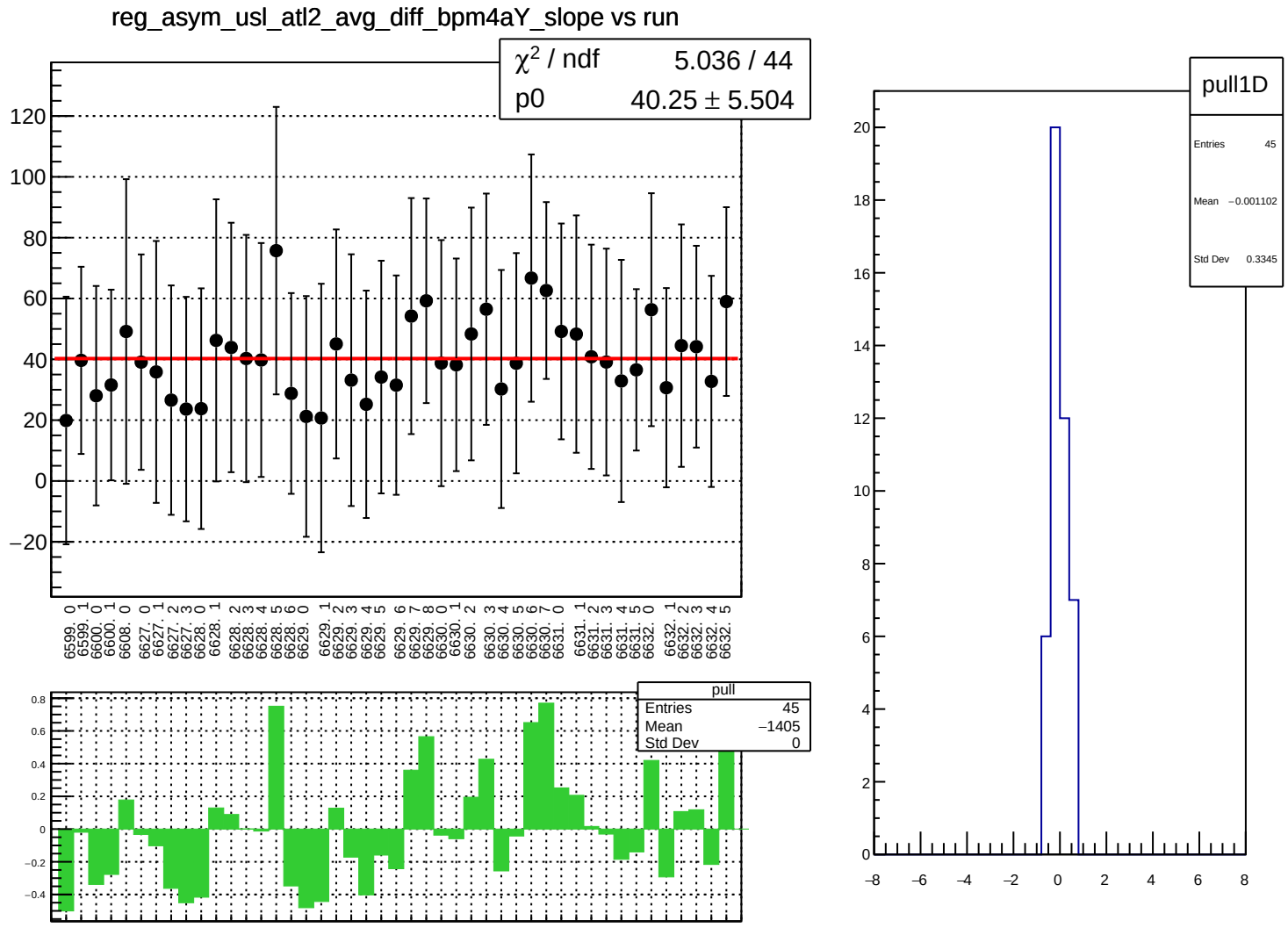

pull1D
Entries 45
Mean 0.0109
Std Dev 0.8762

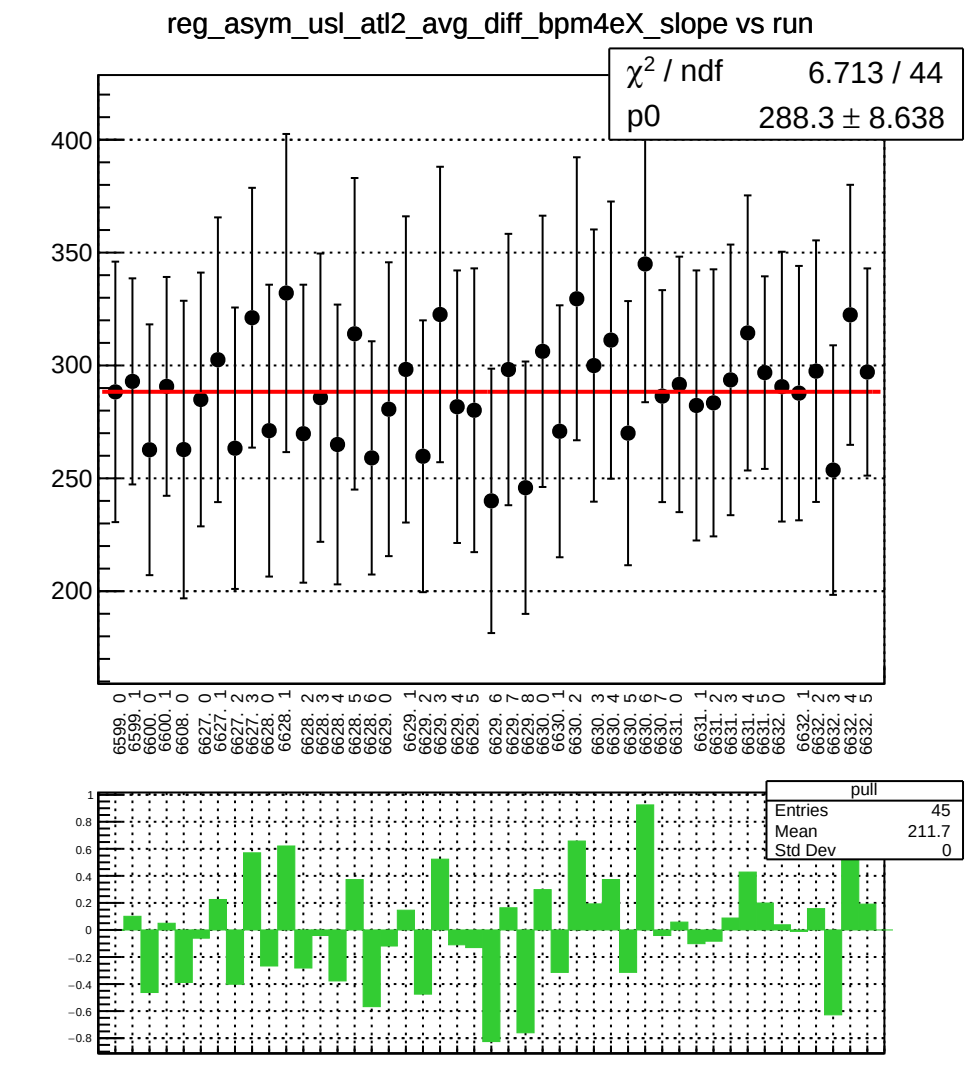

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 102.4 / 44
p0 −5.334 ± 0.08116
pull
Entries 45
Mean 219.7
Std Dev 0

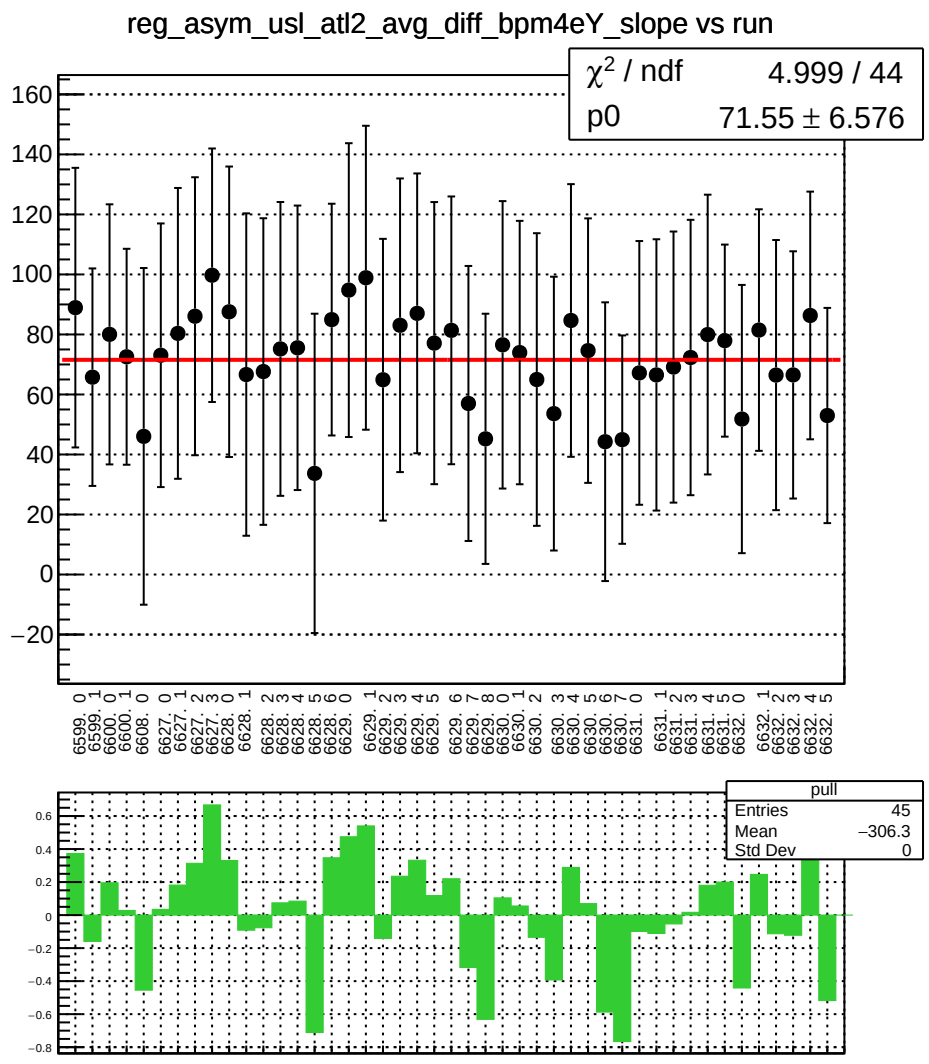

pull1D
Entries 45
Mean 0.04336
Std Dev 1.508

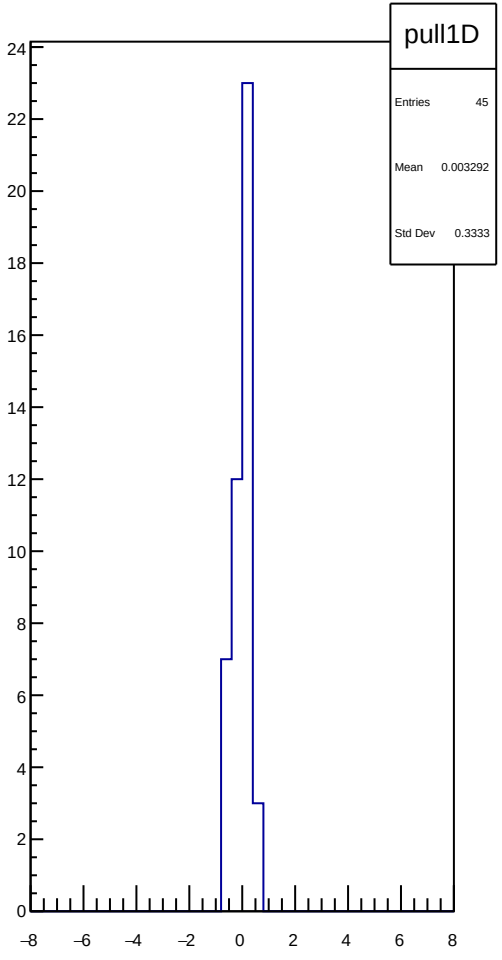

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 7.2 / 44
p0 −328.1 ± 8.377
pull
Entries 45
Mean 371
Std Dev 0

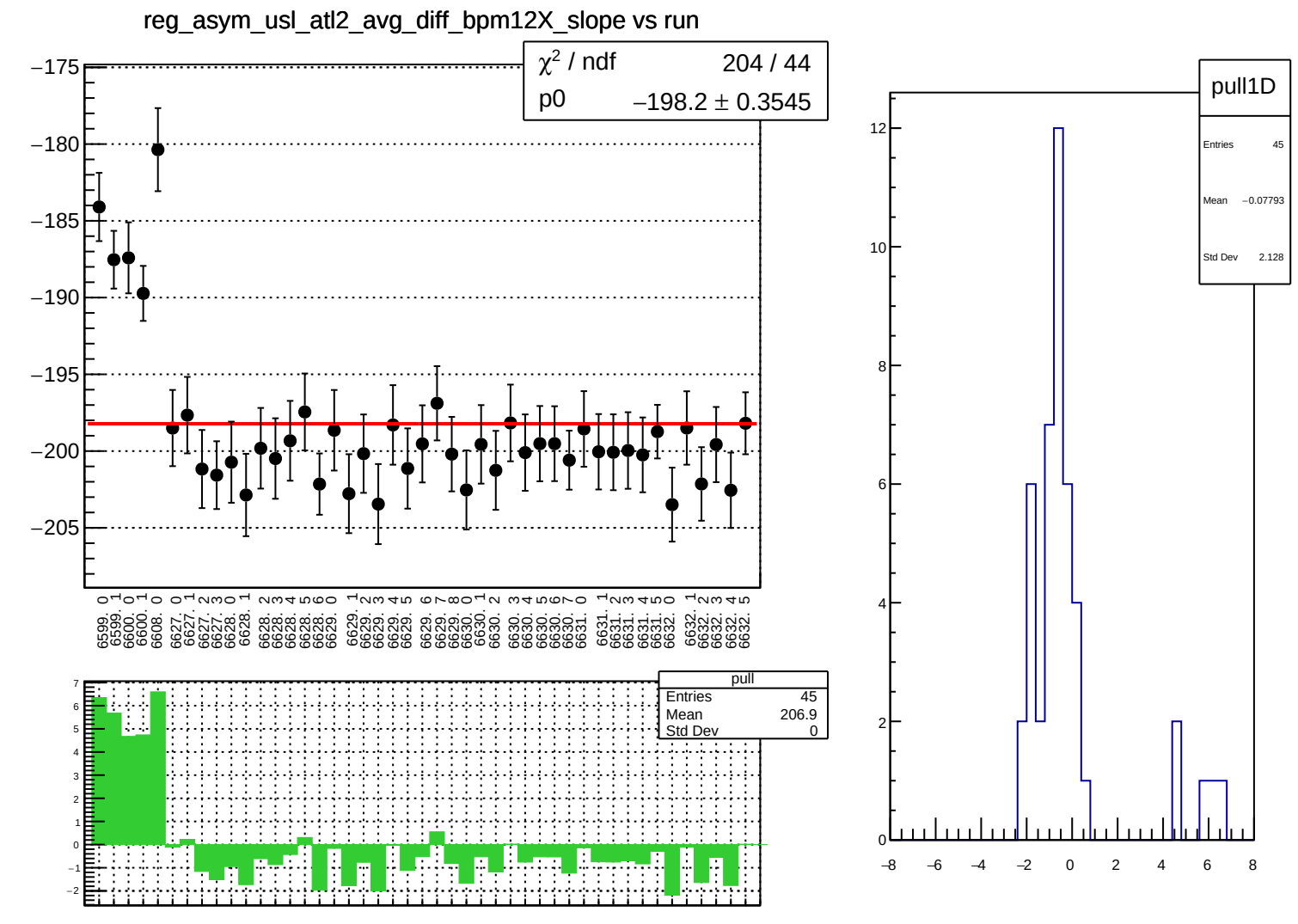

pull1D
Entries 45
Mean −0.003222
Std Dev 0.4

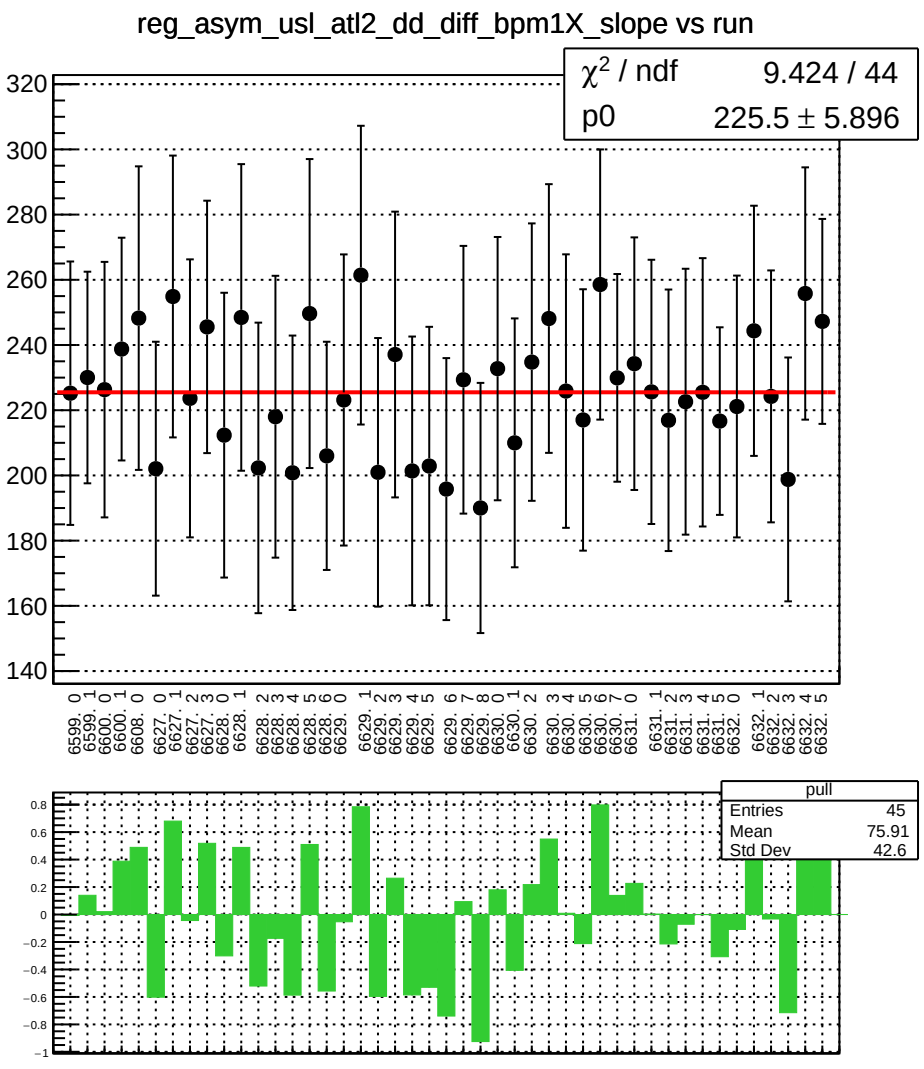

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.036 / 44
p0 40.25 ± 5.504
pull
Entries 45
Mean −1405
Std Dev 0
pull1D
Entries 45
Mean −0.001102
Std Dev 0.3345


reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.713 / 44
p0 288.3 ± 8.638
400
350
300
250
200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 211.7
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean 0.004776
Std Dev 0.3862
16
14
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 4.999 / 44
p0 71.55 ± 6.576
pull
Entries 45
Mean −306.3
Std Dev 0


pull1D
Entries 45
Mean 0.003292
Std Dev 0.3333


reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 204 / 44
p0 −198.2 ± 0.3545
pull
Entries 45
Mean 206.9
Std Dev 0
pull1D
Entries 45
Mean −0.07793
Std Dev 2.128


reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 9.424 / 44
p0 225.5 ± 5.896
320
300
280
260
240
220
200
180
160
140
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
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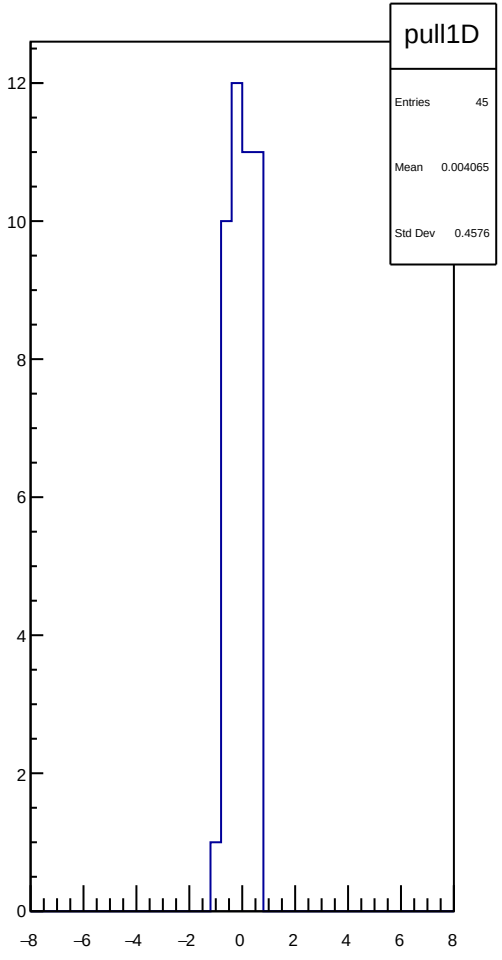
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 75.91
Std Dev 42.6
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1


pull1D
Entries 45
Mean 0.004065
Std Dev 0.4576
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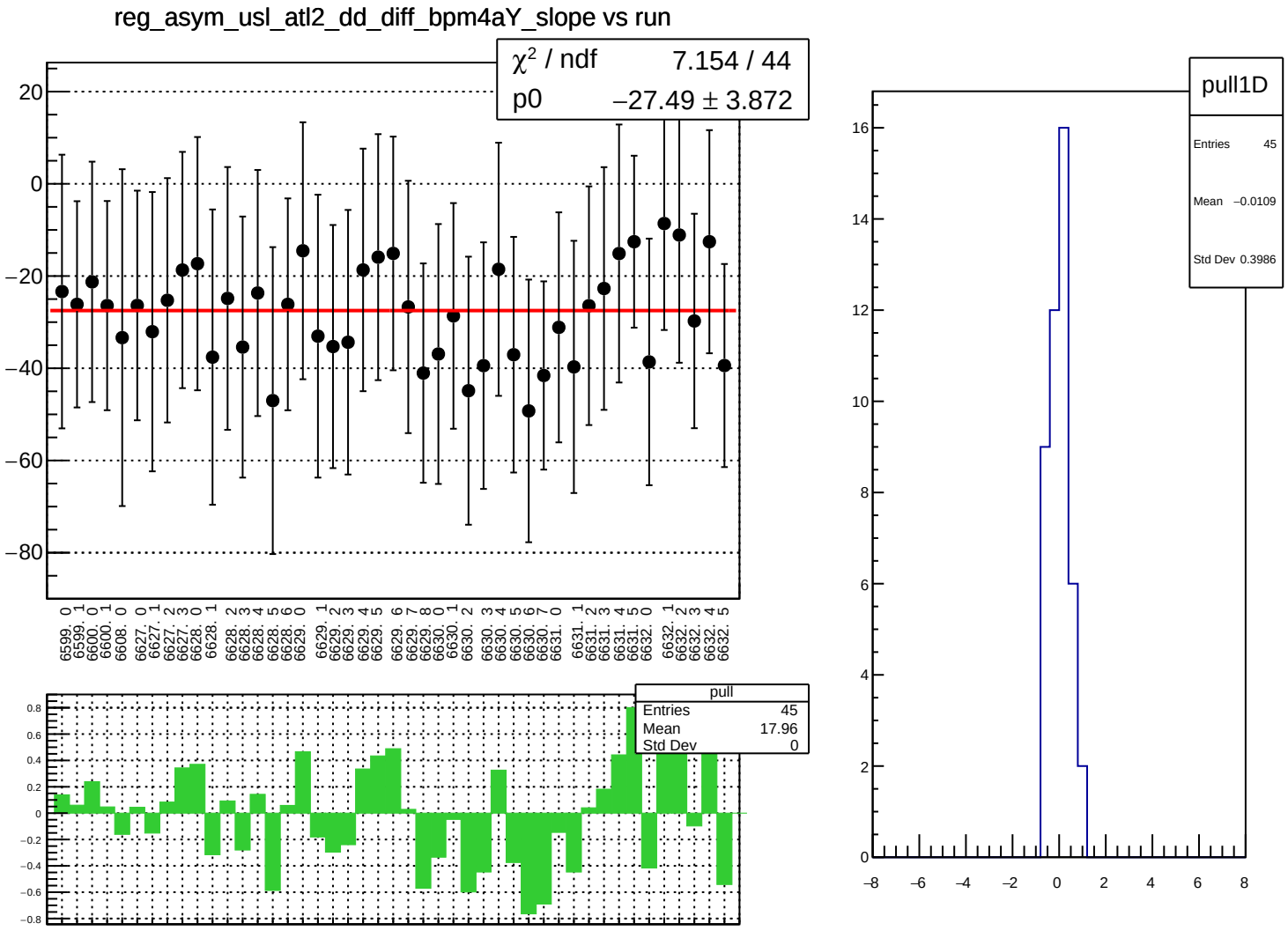
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.154 / 44
p0 −27.49 ± 3.872
20
0
−20
−40
−60
−80
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
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6628. 2
6628. 3
6628. 4
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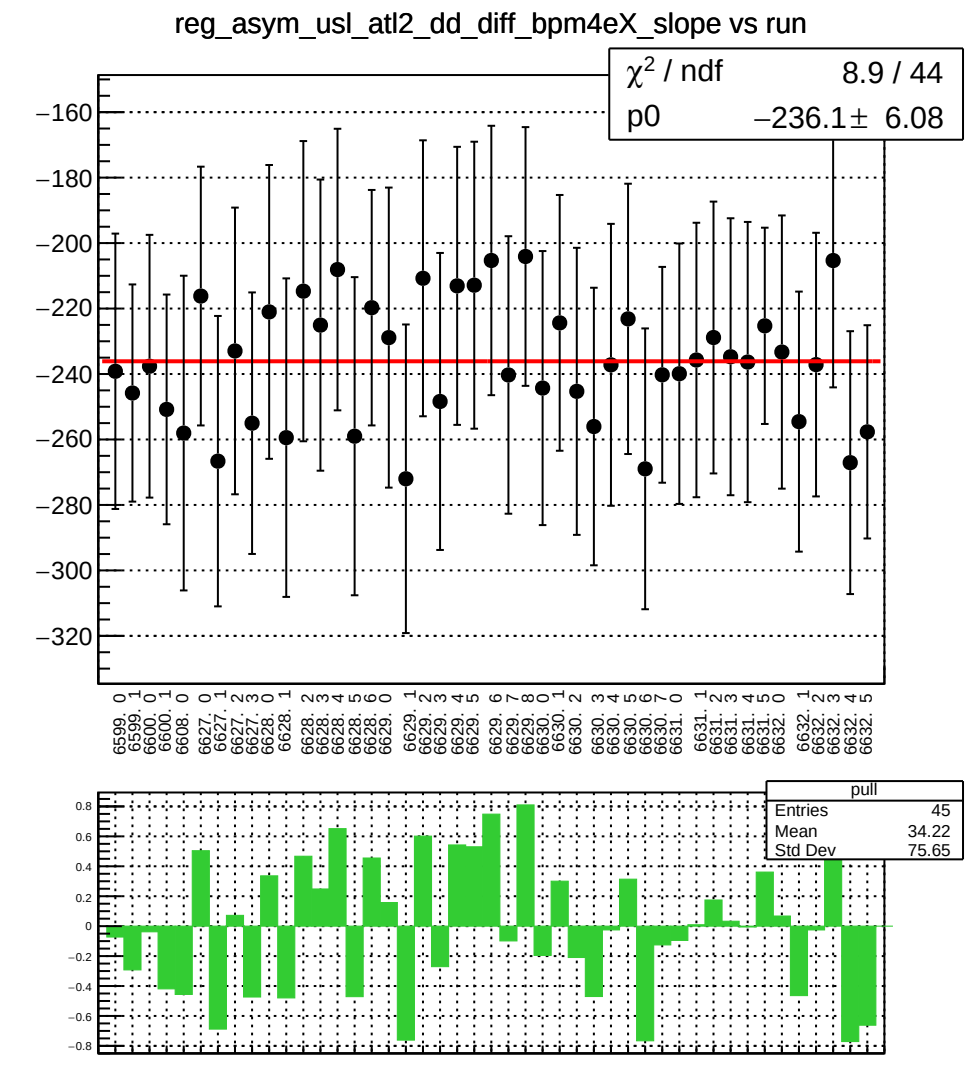
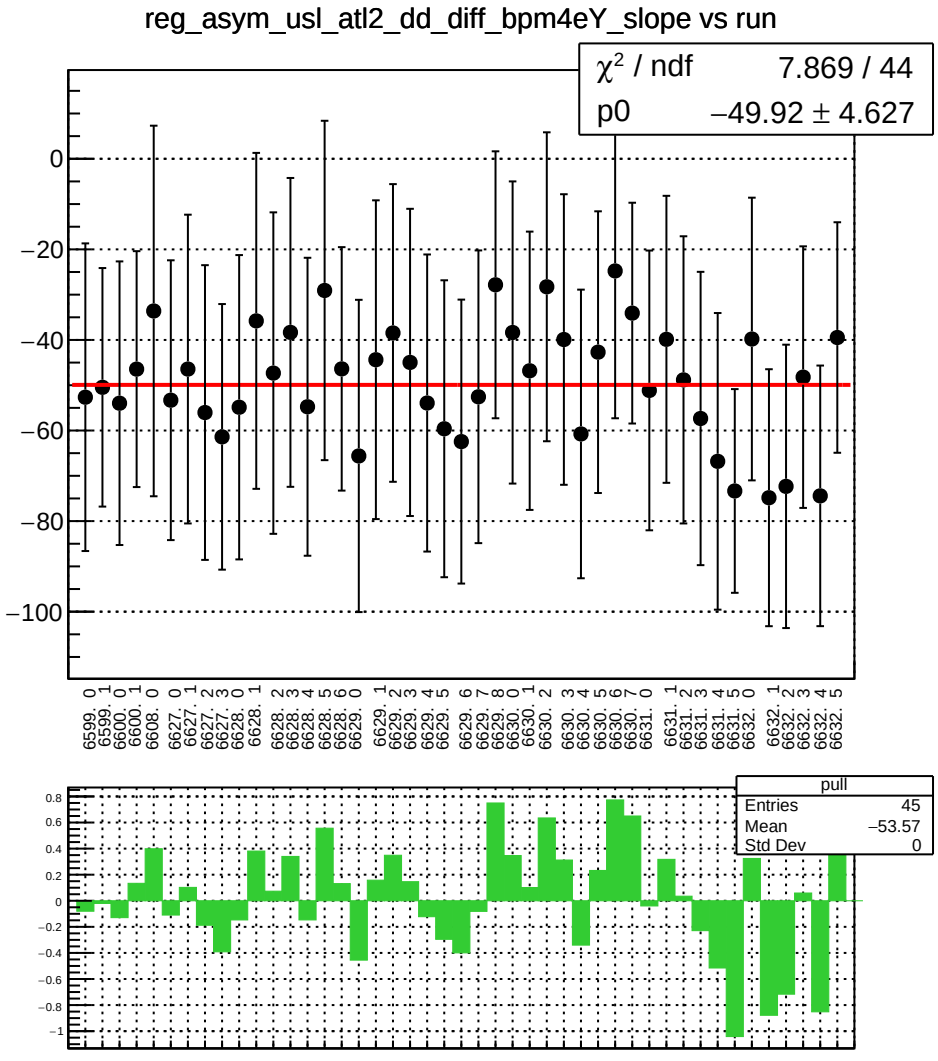
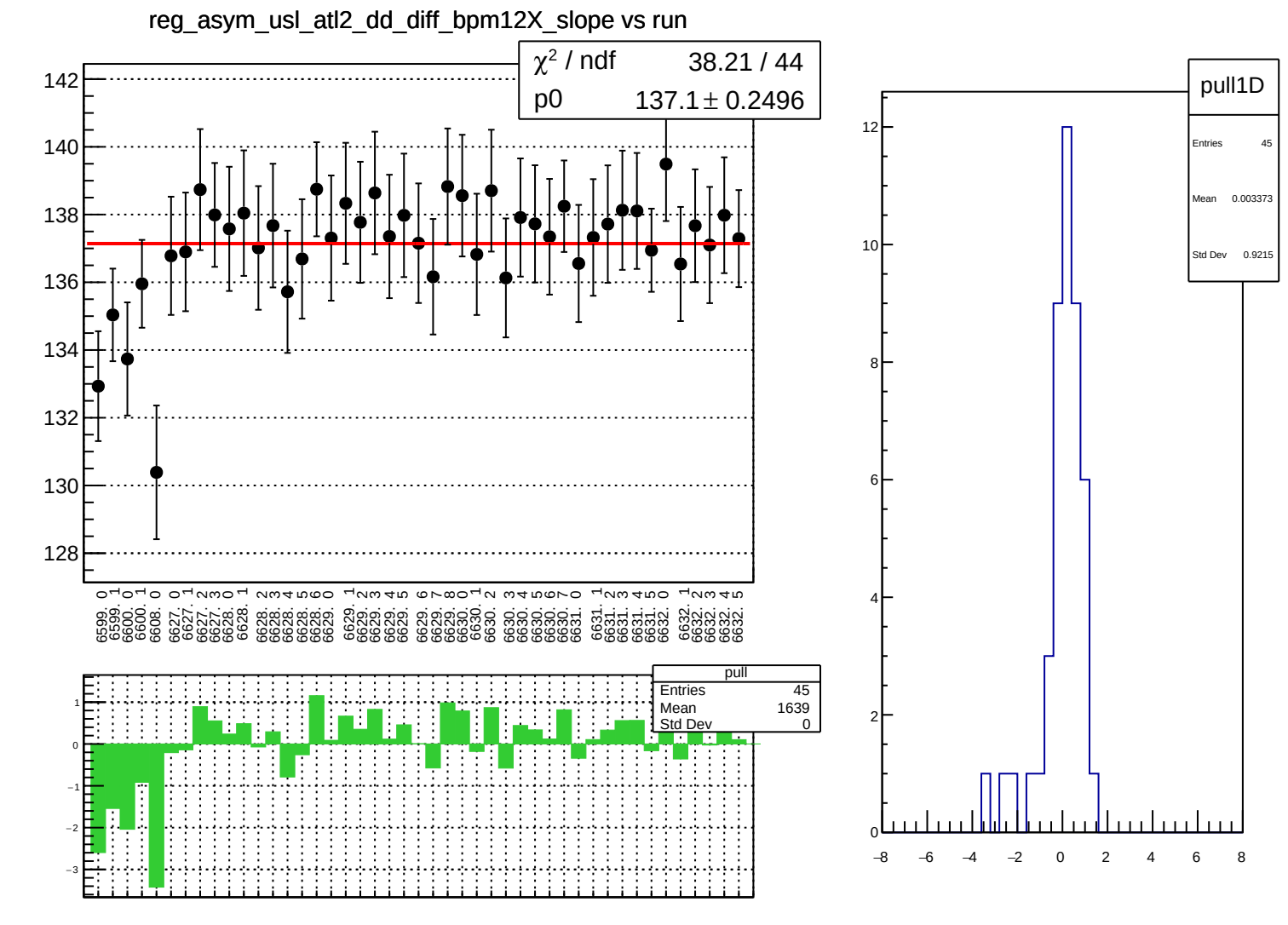
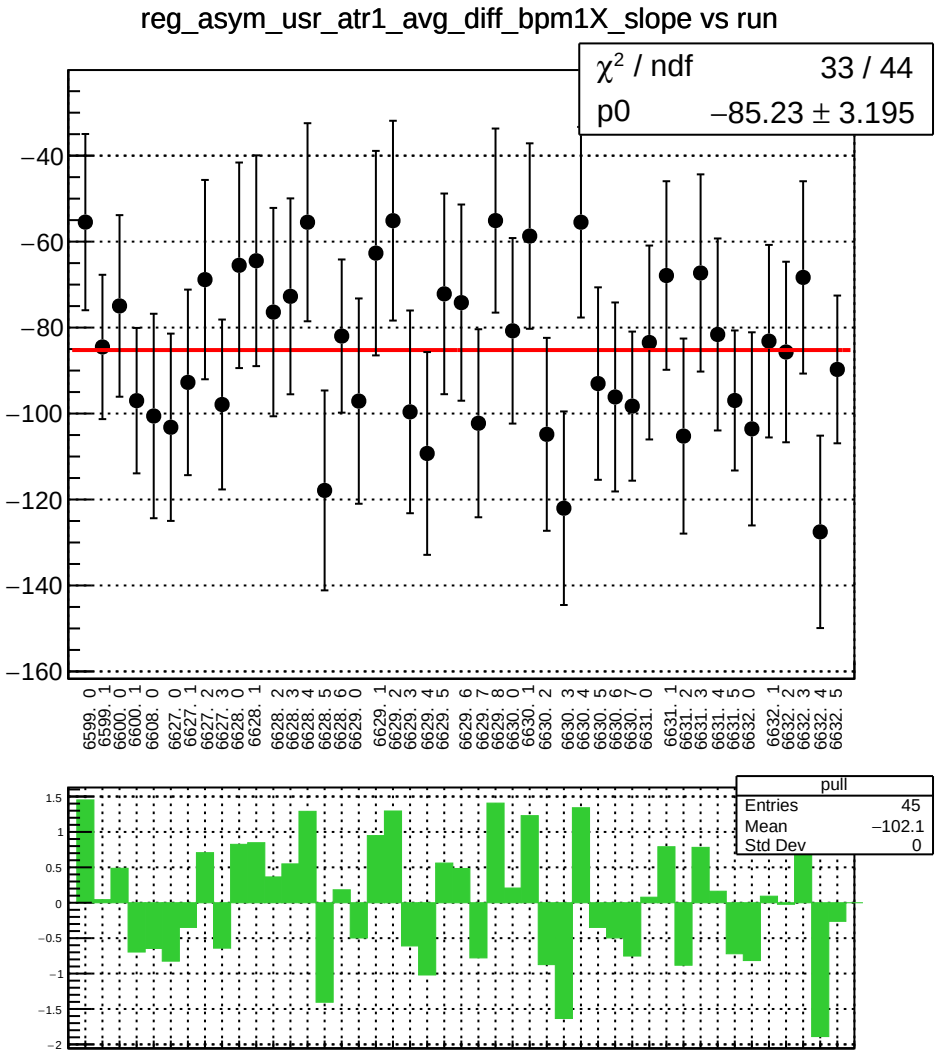
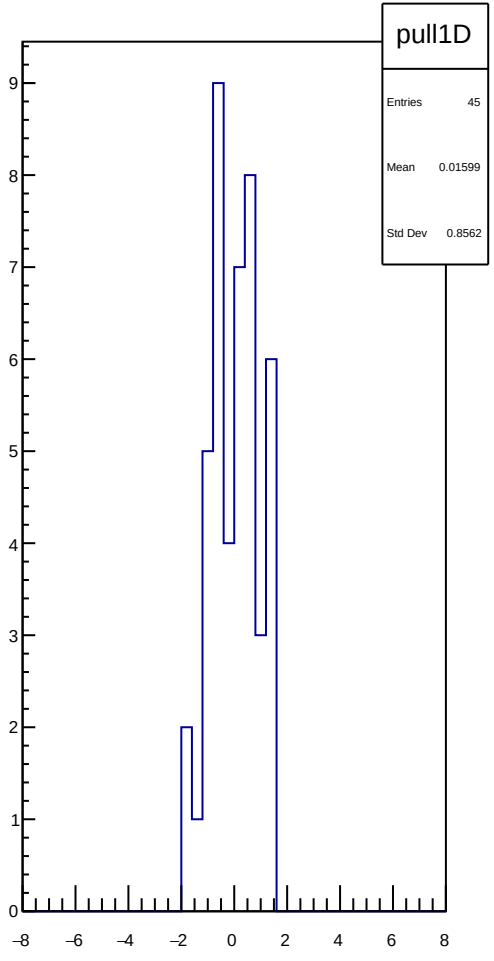
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 17.96
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean −0.0109
Std Dev 0.3986
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

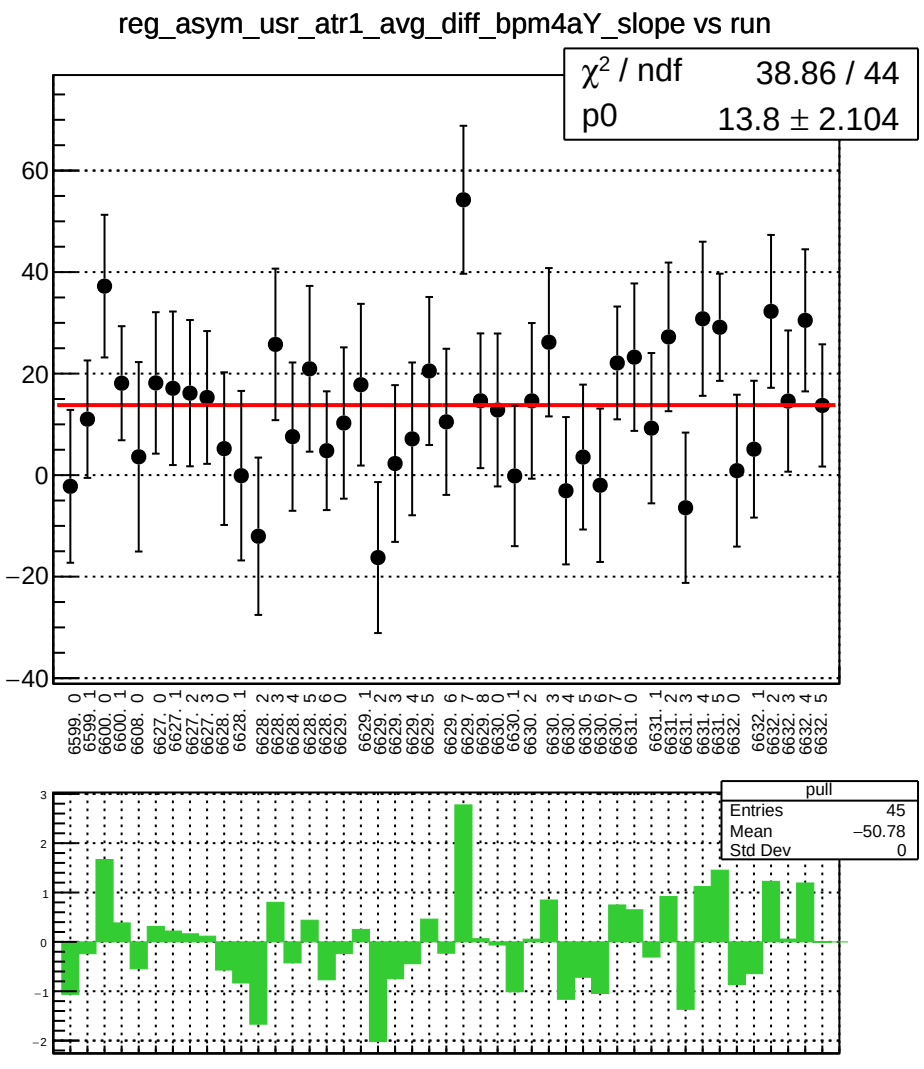

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.9 / 44
p0 −236.1± 6.08
−160
−180
−200
−220
−240
−260
−280
−300
−320
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 34.22
Std Dev 75.65
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean −0.003458
Std Dev 0.4447
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

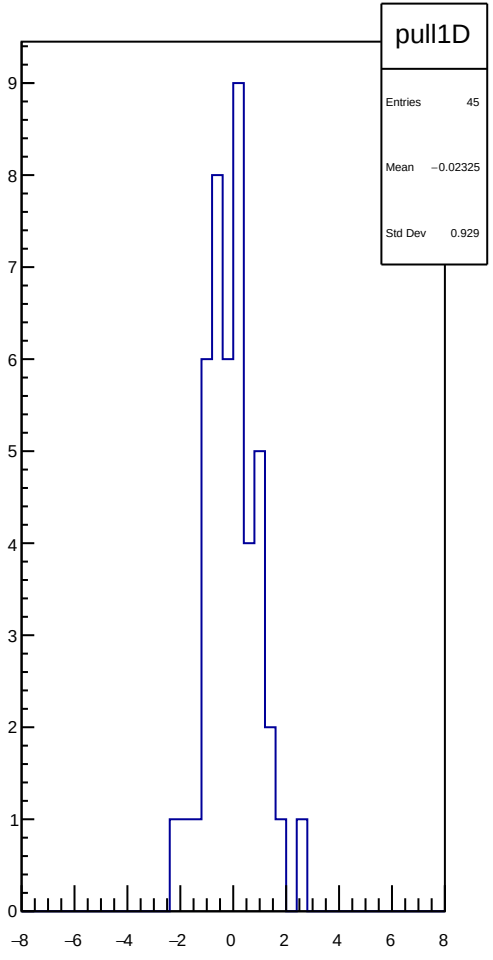

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.869 / 44
p0 −49.92 ± 4.627
0
−20
−40
−60
−80
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −53.57
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 45
Mean 0.01203
Std Dev 0.418
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

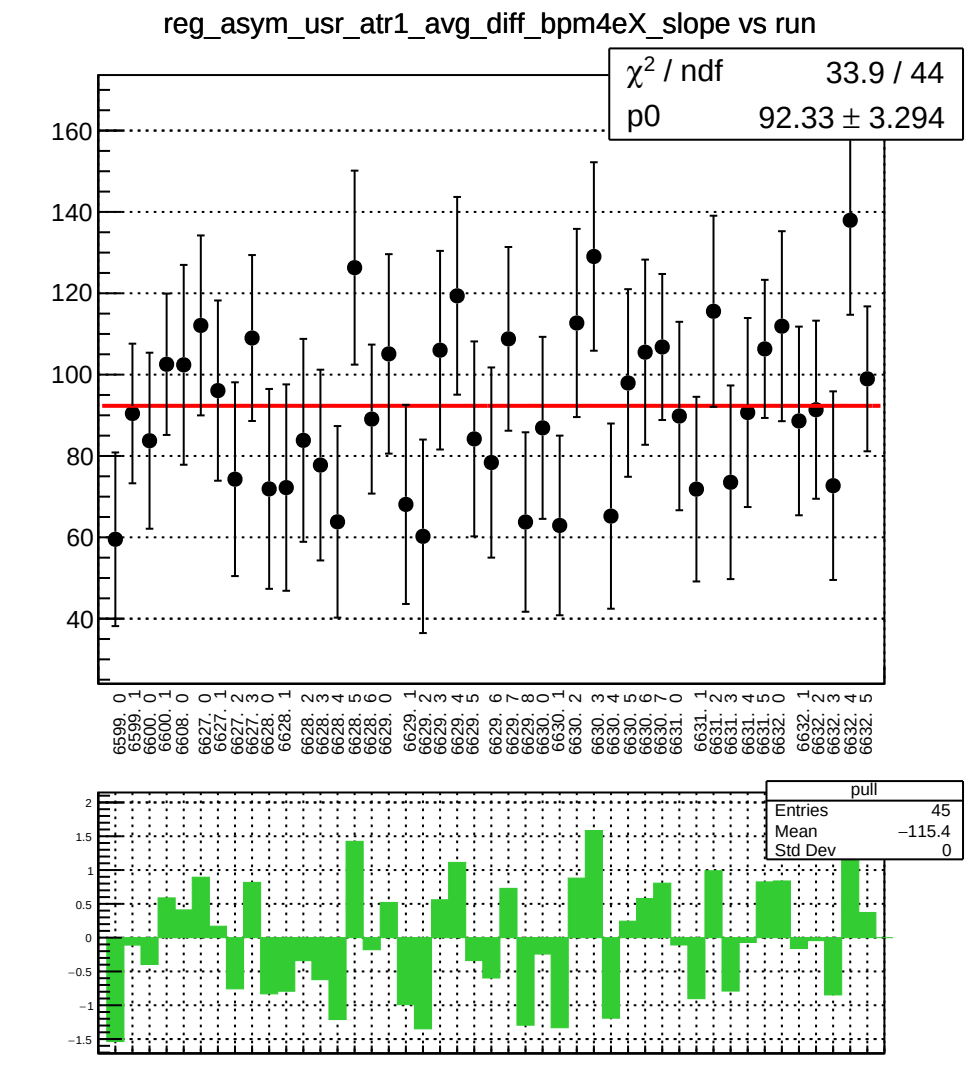

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 38.21 / 44
p0 137.1 ± 0.2496
142
140
138
136
134
132
130
128
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 1639
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.003373
Std Dev 0.9215
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

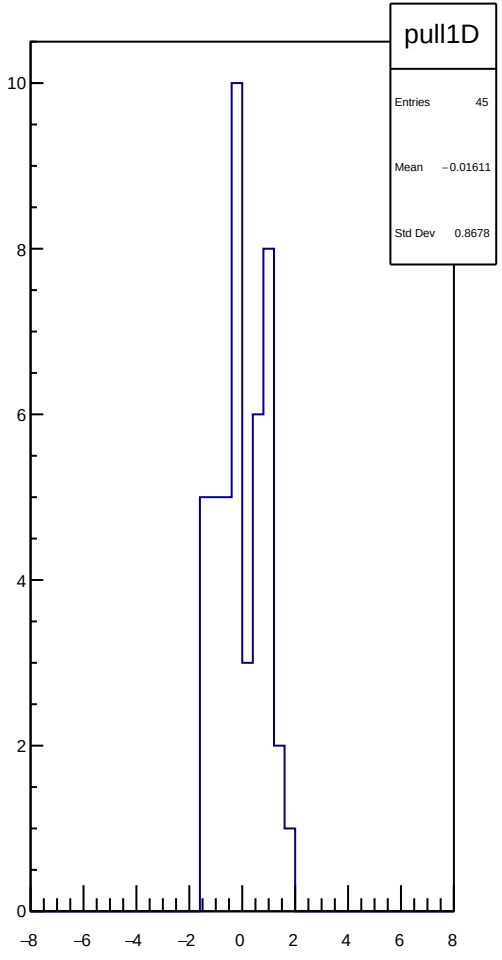

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 33 / 44
p0 −85.23 ± 3.195
pull
Entries 45
Mean −102.1
Std Dev 0

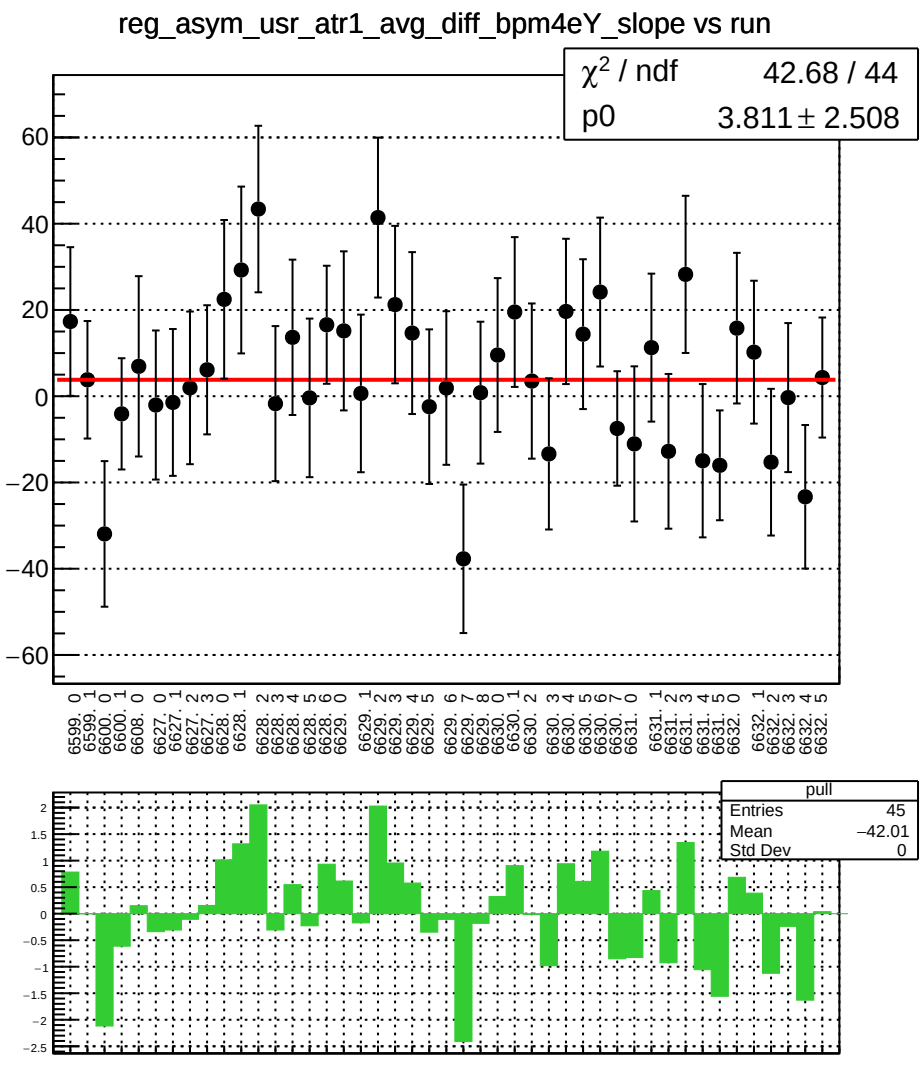

pull1D
Entries 45
Mean 0.01599
Std Dev 0.8562

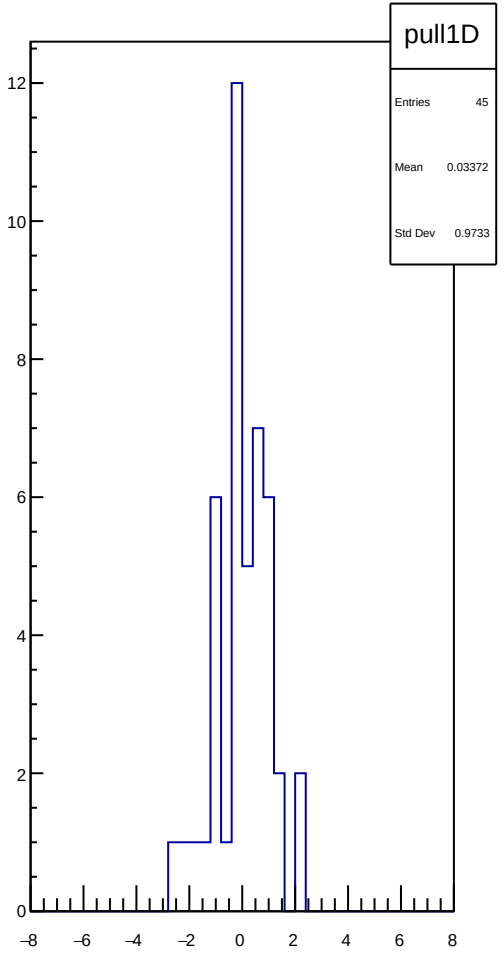

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 38.86 / 44
p0 13.8 ± 2.104
pull
Entries 45
Mean −50.78
Std Dev 0

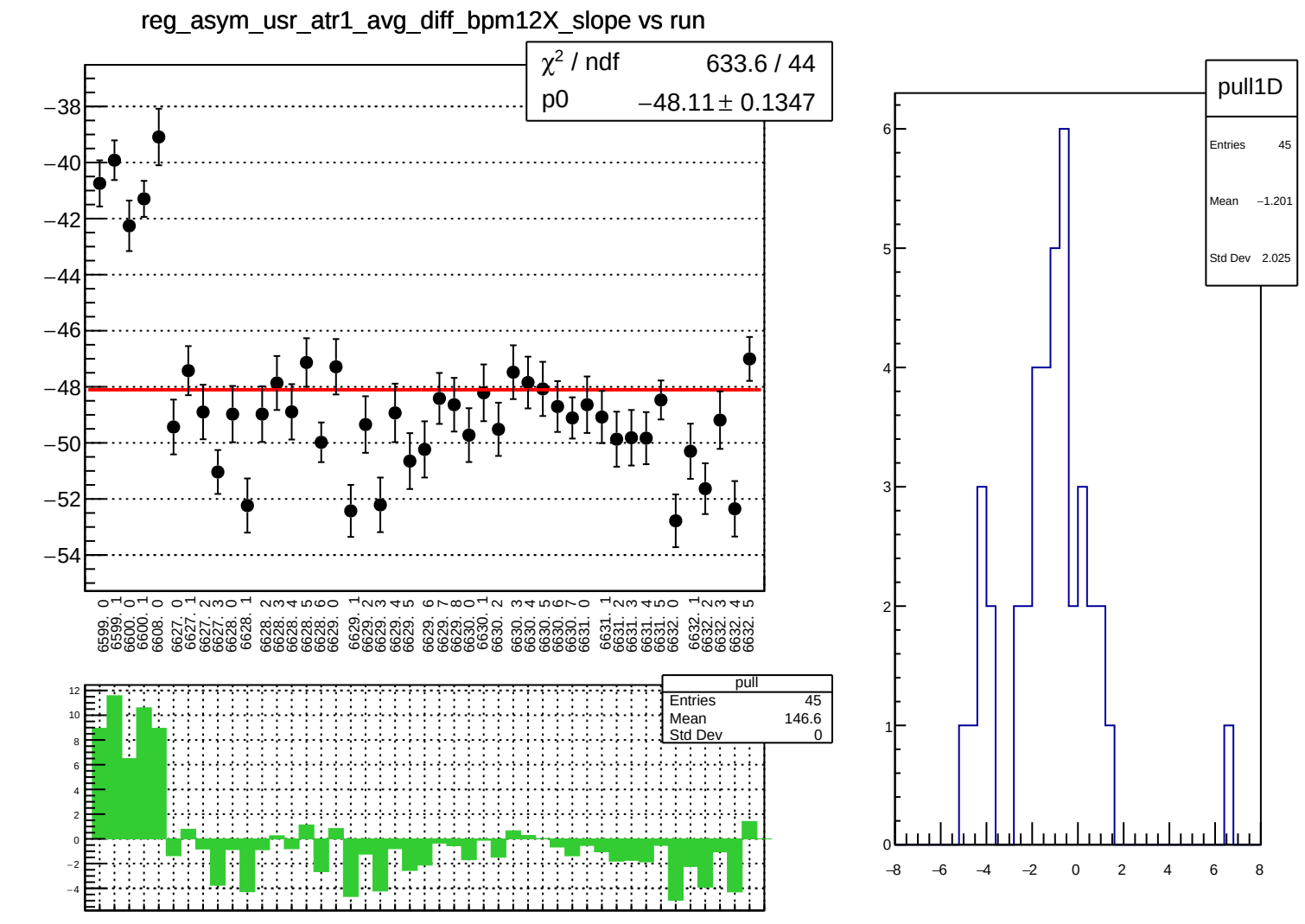

pull1D
Entries 45
Mean −0.02325
Std Dev 0.929

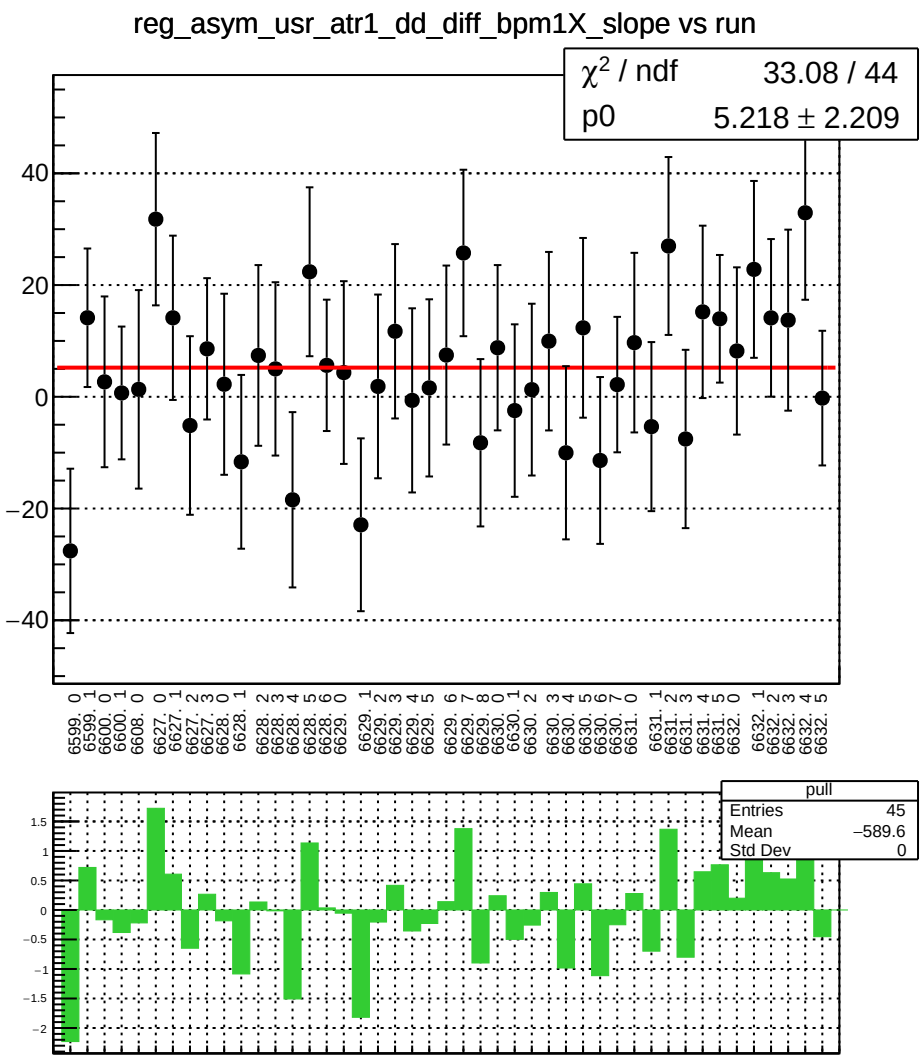

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 33.9 / 44
p0 92.33 ± 3.294
160
140
120
100
80
60
40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −115.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

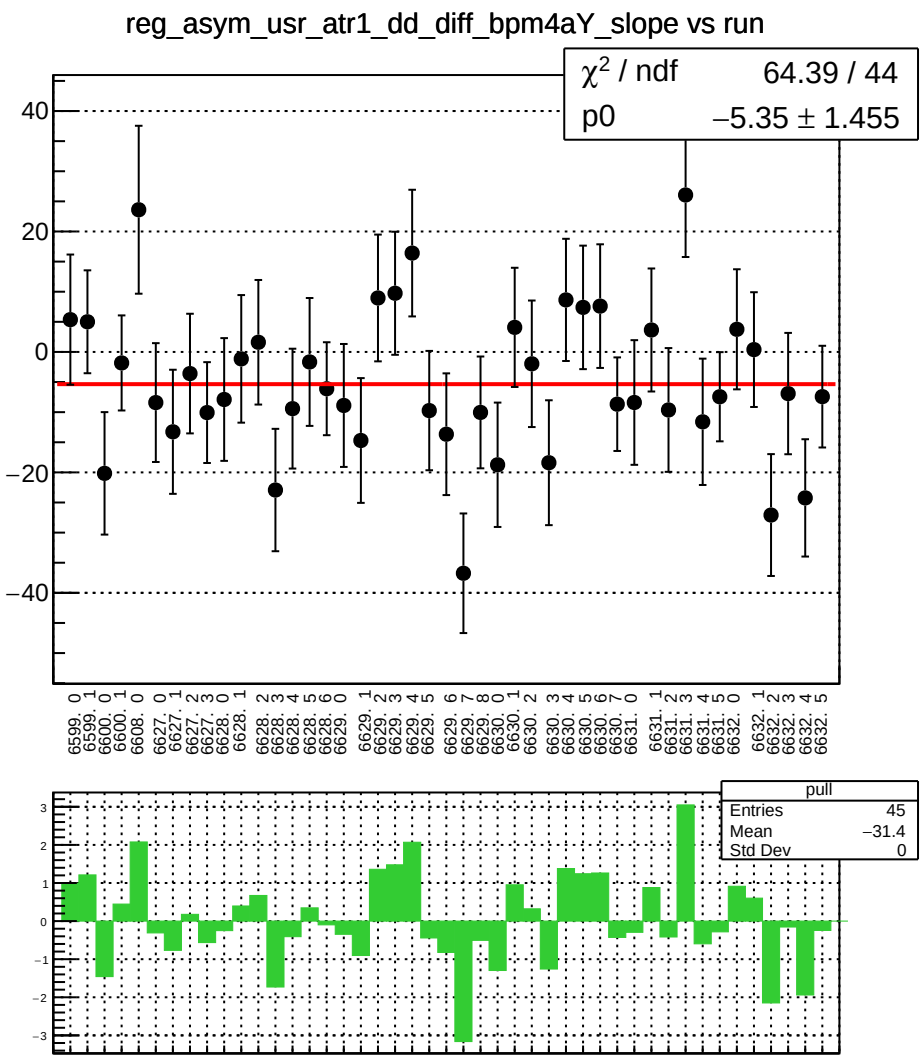

pull1D
Entries 45
Mean −0.01611
Std Dev 0.8678
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

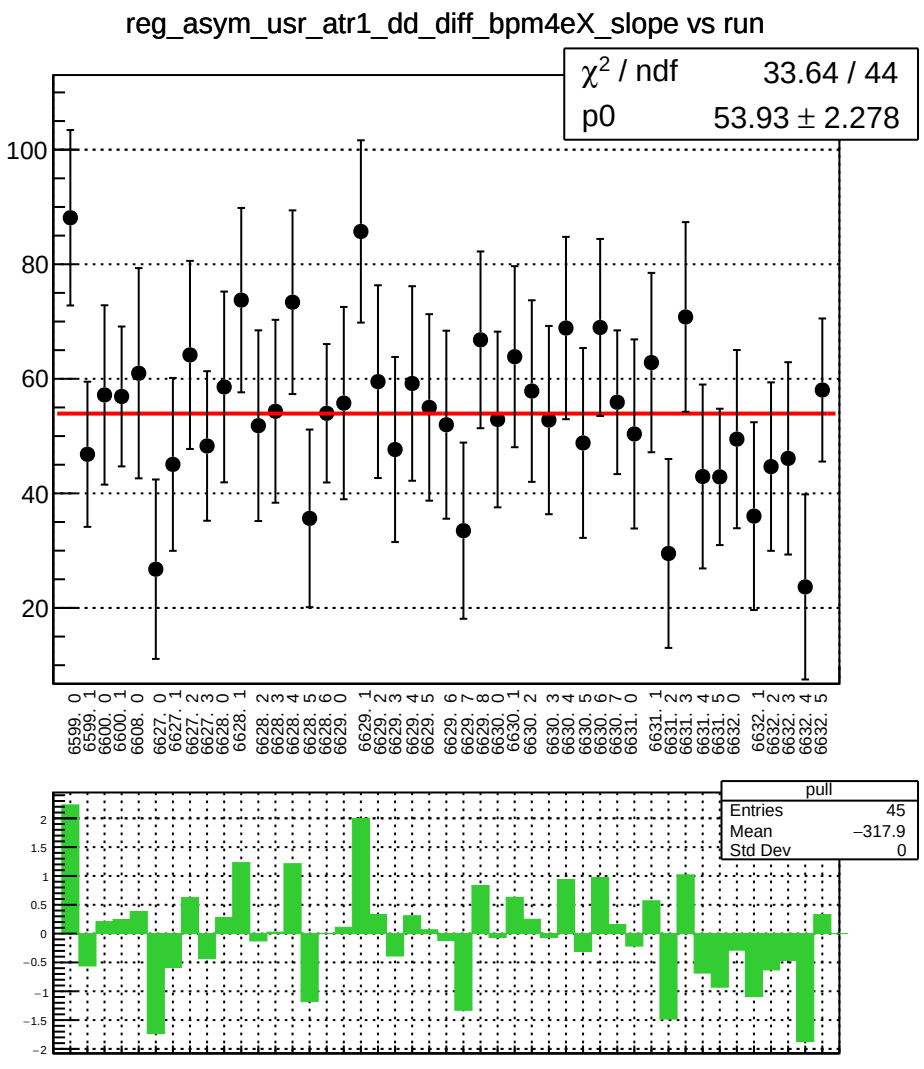

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 42.68 / 44
p0 3.811 ± 2.508
pull
Entries 45
Mean −42.01
Std Dev 0

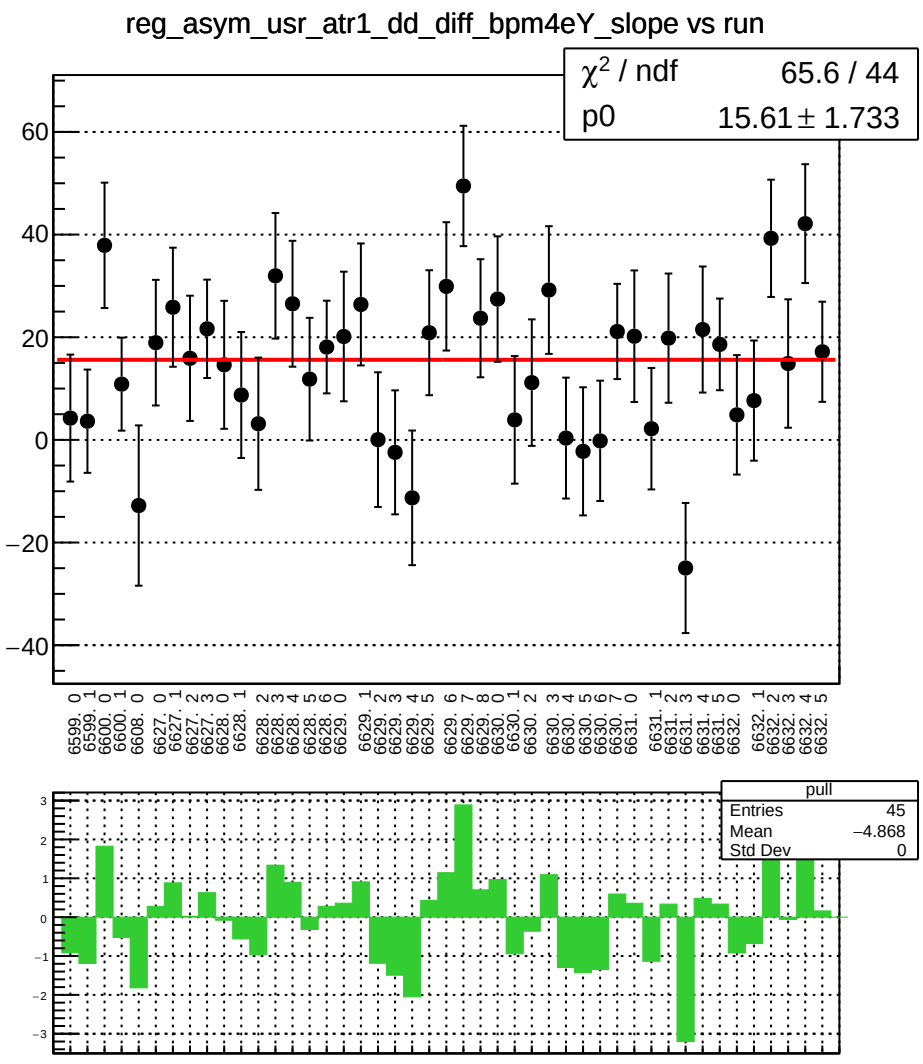

pull1D
Entries 45
Mean 0.03372
Std Dev 0.9733

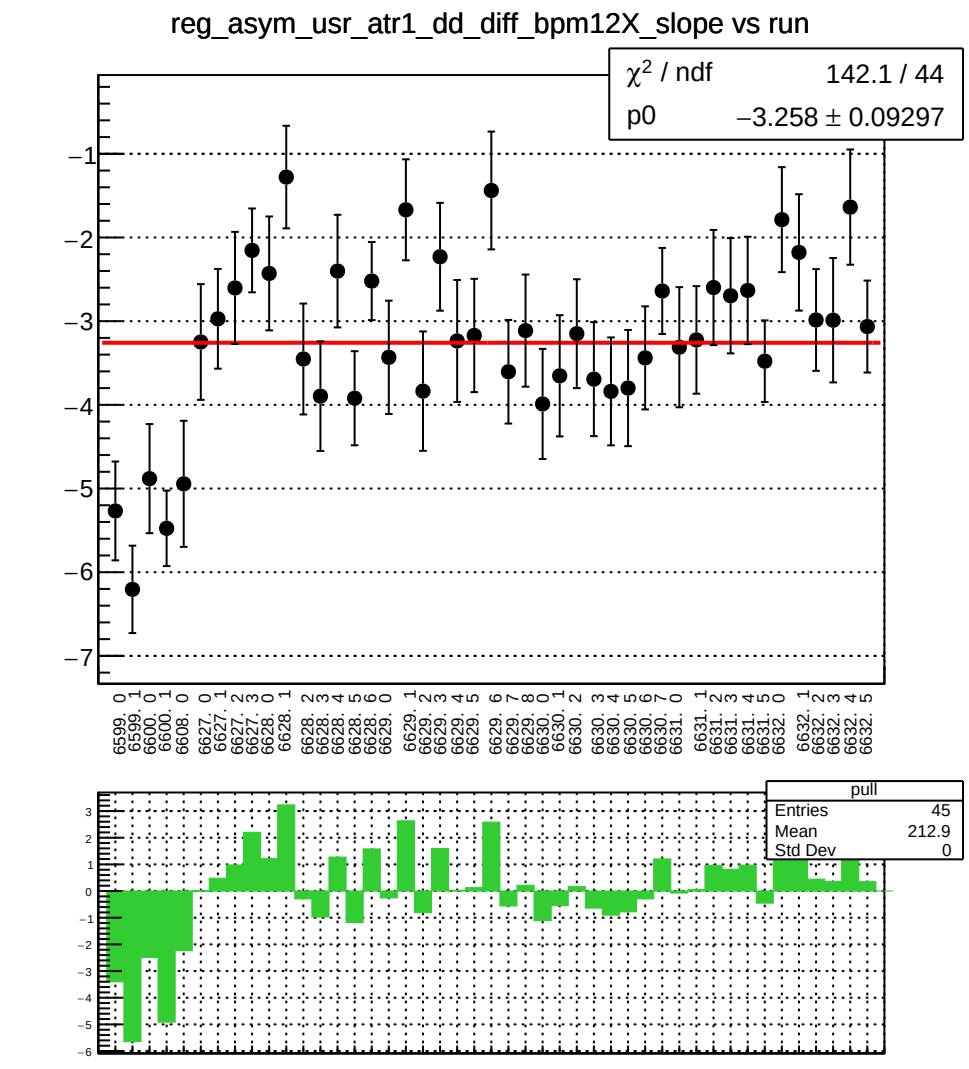

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 633.6 / 44
p0 −48.11 ± 0.1347
pull
Entries 45
Mean 146.6
Std Dev 0
pull1D
Entries 45
Mean −1.201
Std Dev 2.025

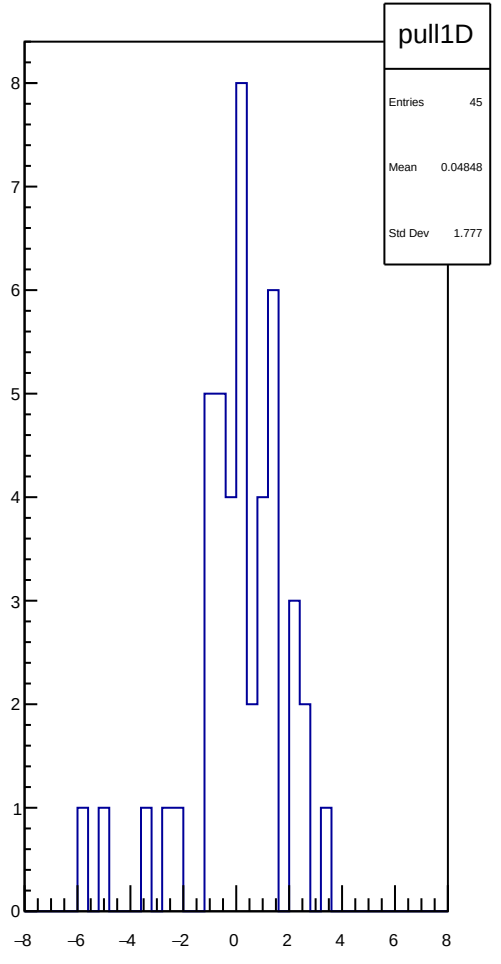

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 33.08 / 44
p0 5.218 ± 2.209
40
20
0
−20
−40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −589.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.00447
Std Dev 0.8574
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

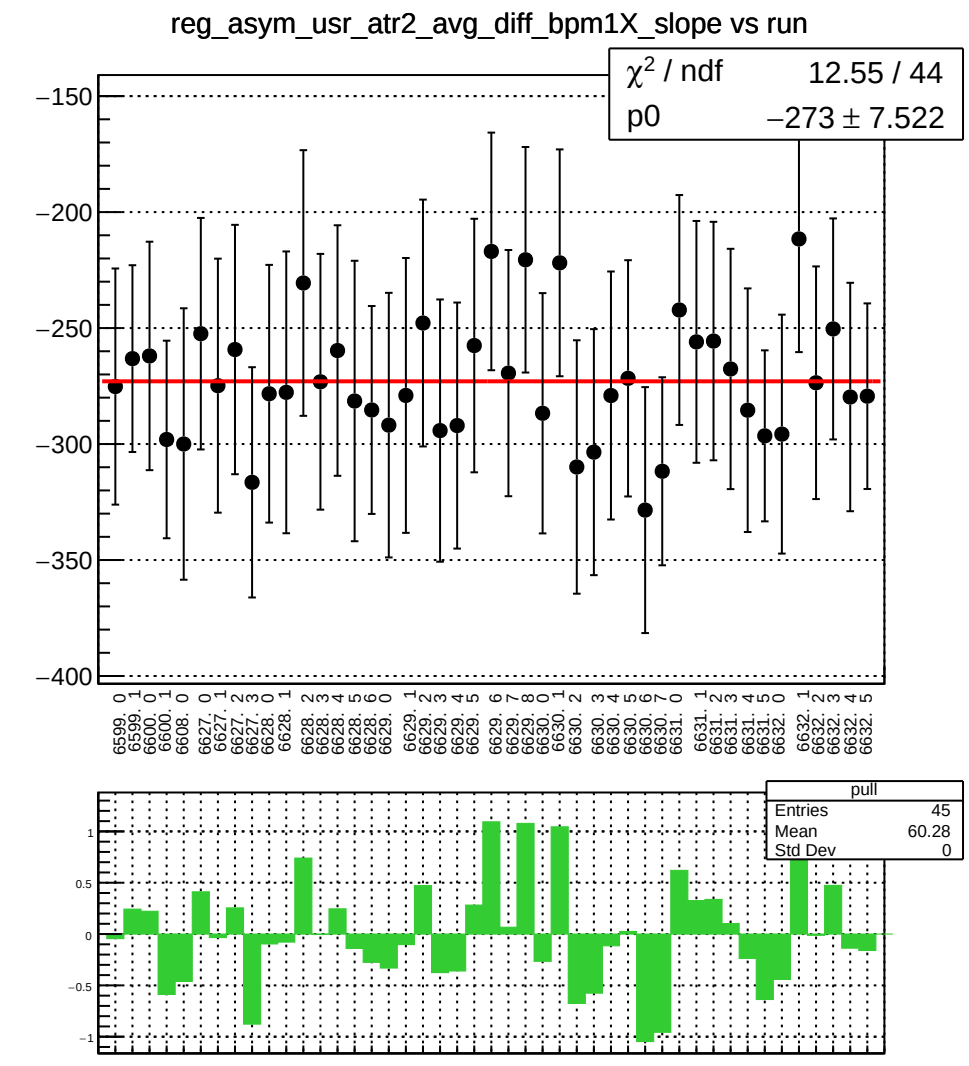

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 64.39 / 44
p0 −5.35 ± 1.455
40
20
0
−20
−40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −31.4
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.02237
Std Dev 1.196
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

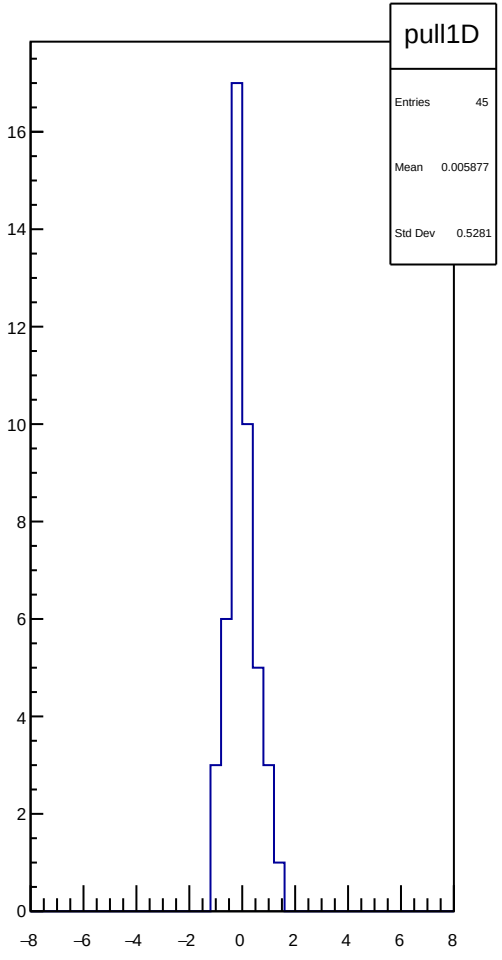

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 33.64 / 44
p0 53.93 ± 2.278
100
80
60
40
20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −317.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.008703
Std Dev 0.8645
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

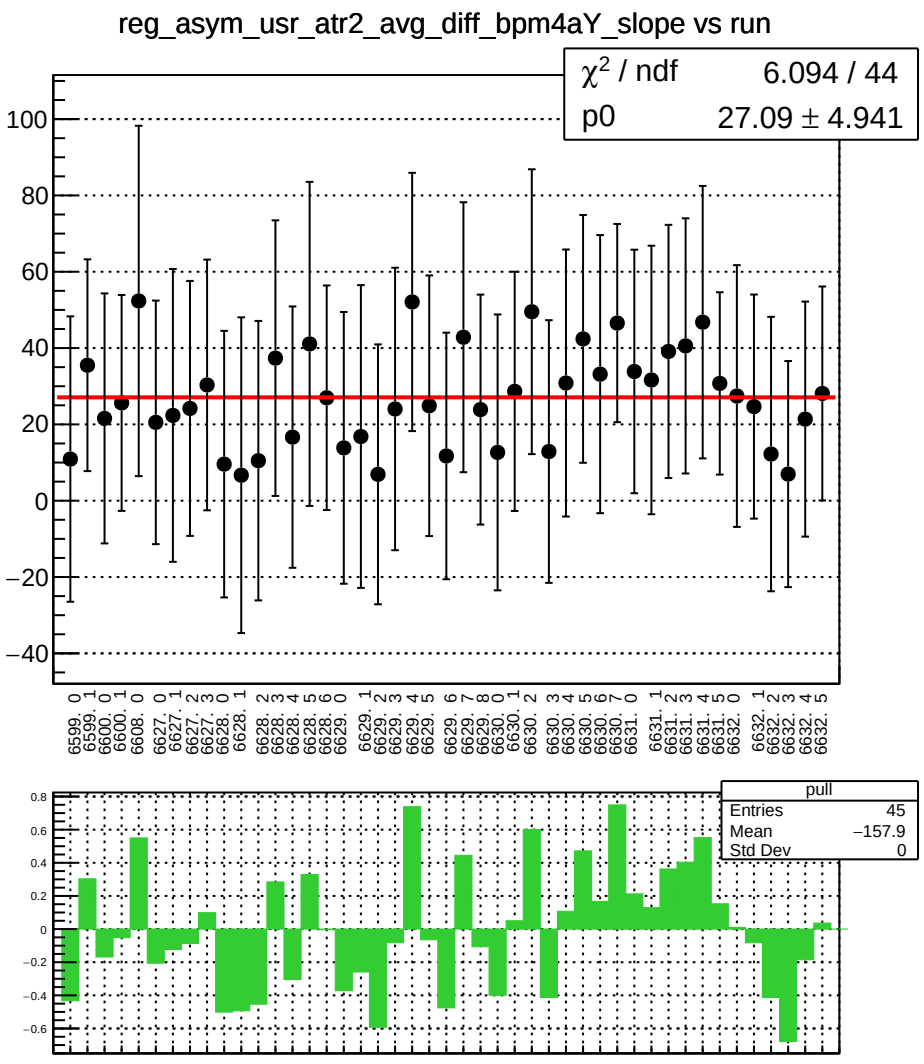

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 65.6 / 44
p0 15.61 ± 1.733
60
40
20
0
−20
−40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6628. 0
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −4.868
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.02687
Std Dev 1.207
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

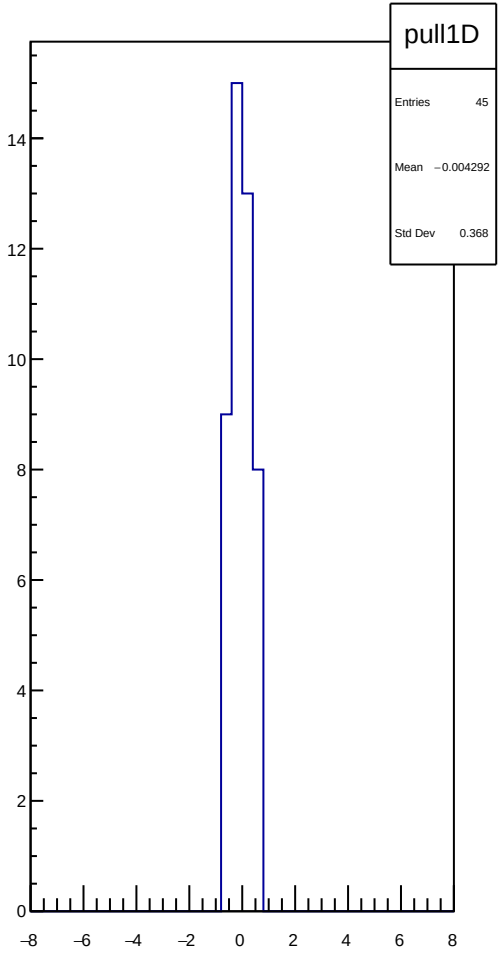

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 142.1 / 44
p0 −3.258 ± 0.09297
pull
Entries 45
Mean 212.9
Std Dev 0

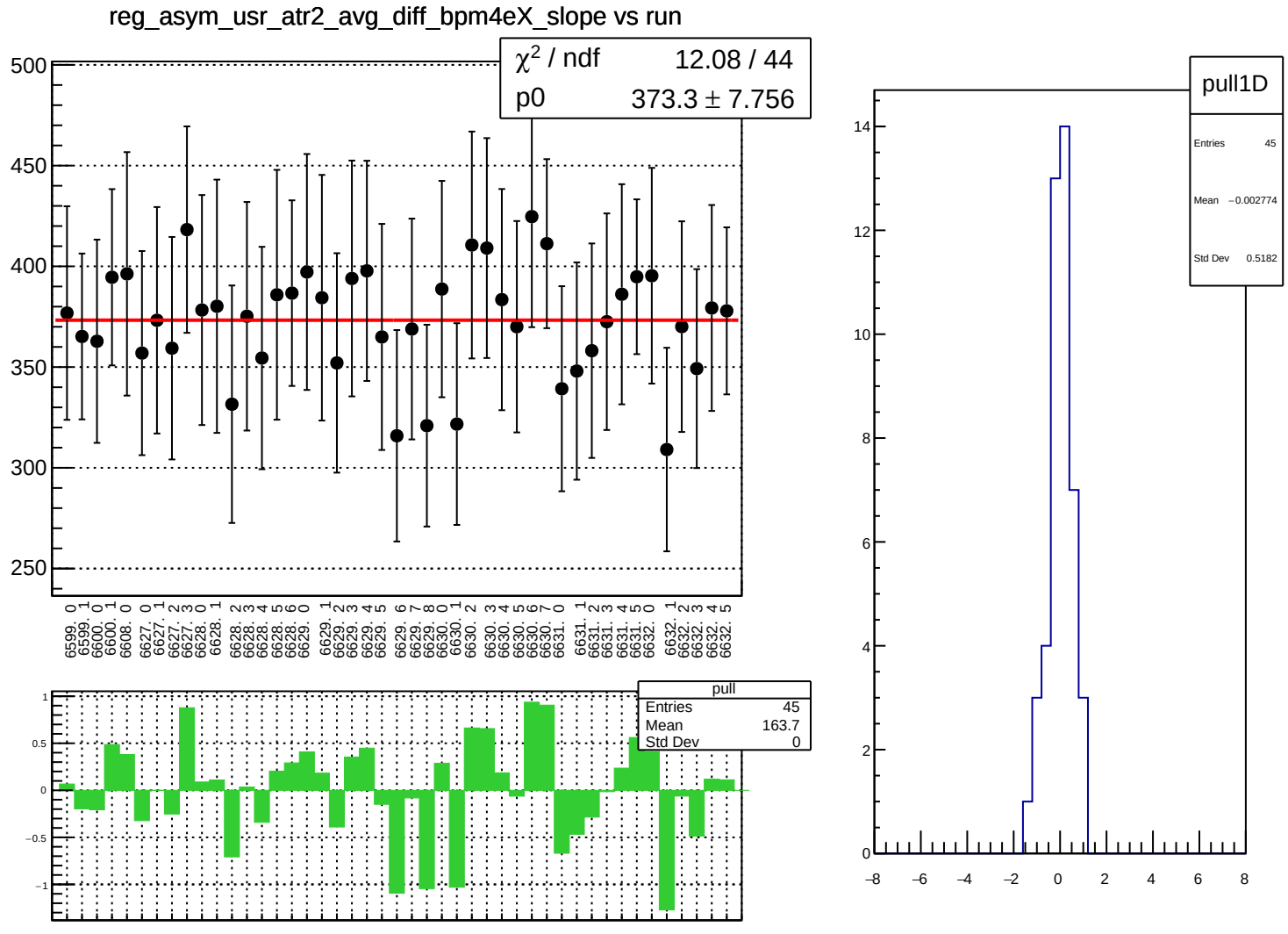

pull1D
Entries 45
Mean 0.04848
Std Dev 1.777

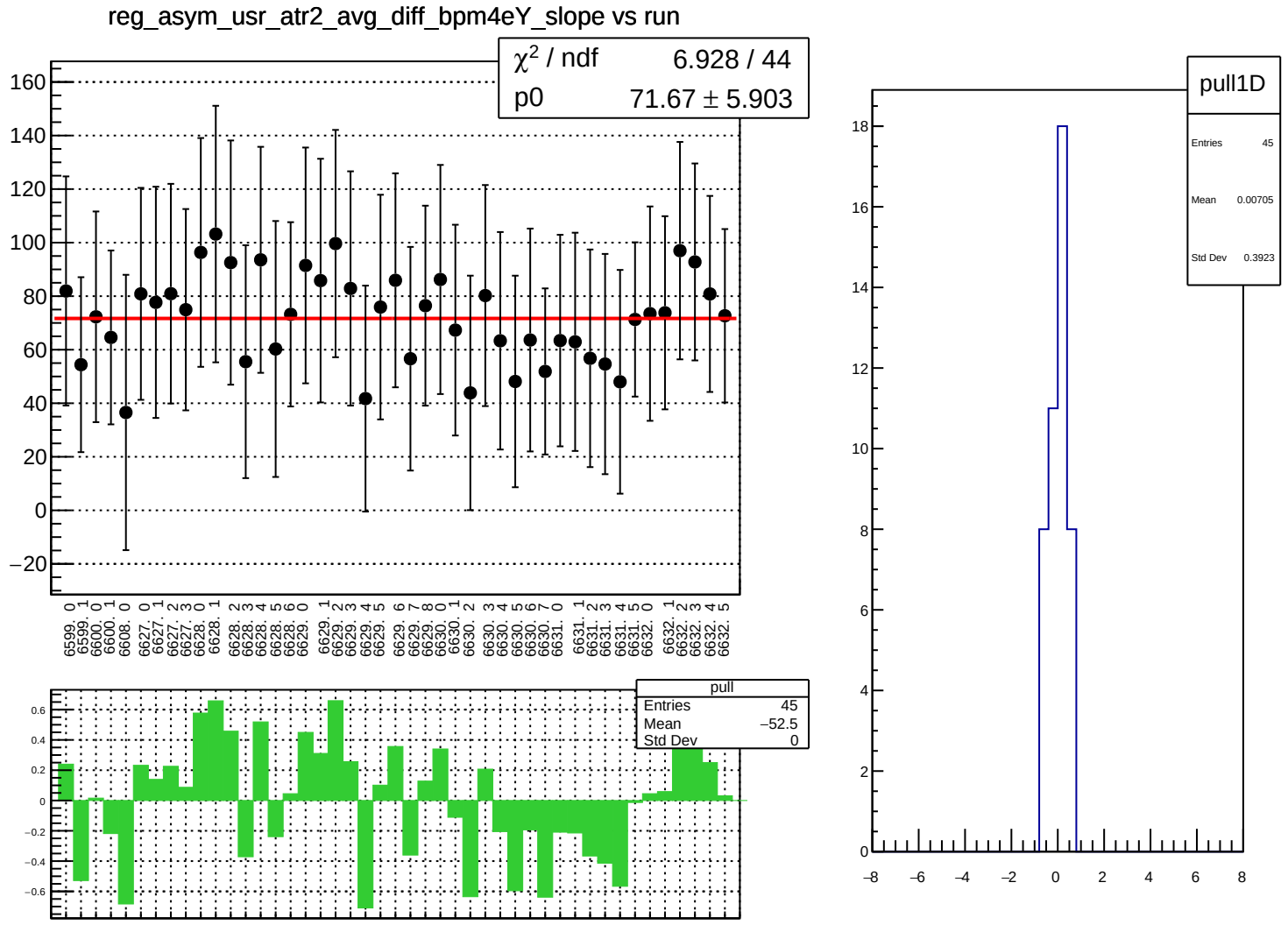

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 12.55 / 44
p0 −273 ± 7.522
−150
−200
−250
−300
−350
−400
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 60.28
Std Dev 0
1
0.5
0
−0.5
−1

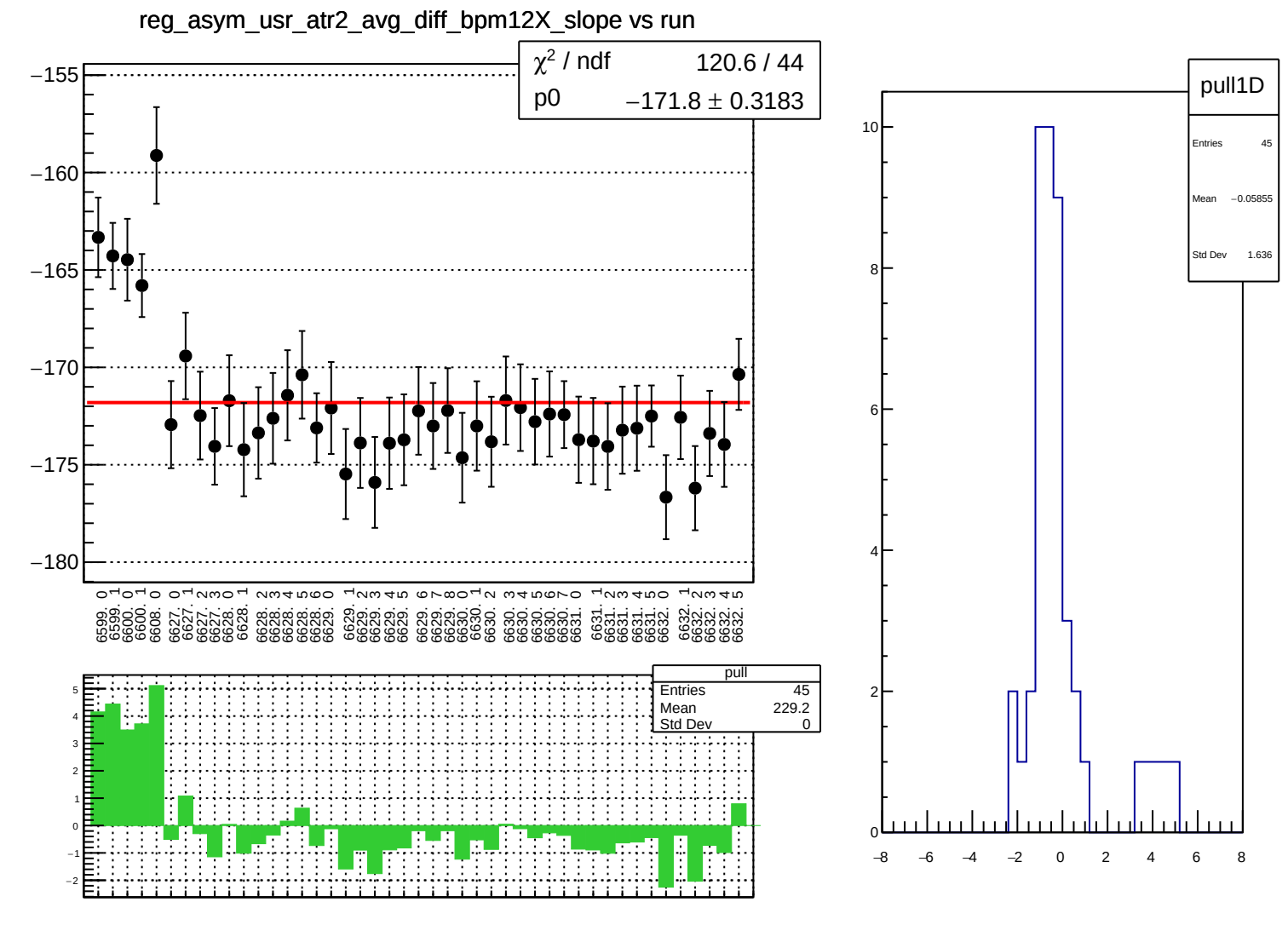

pull1D
Entries 45
Mean 0.005877
Std Dev 0.5281
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

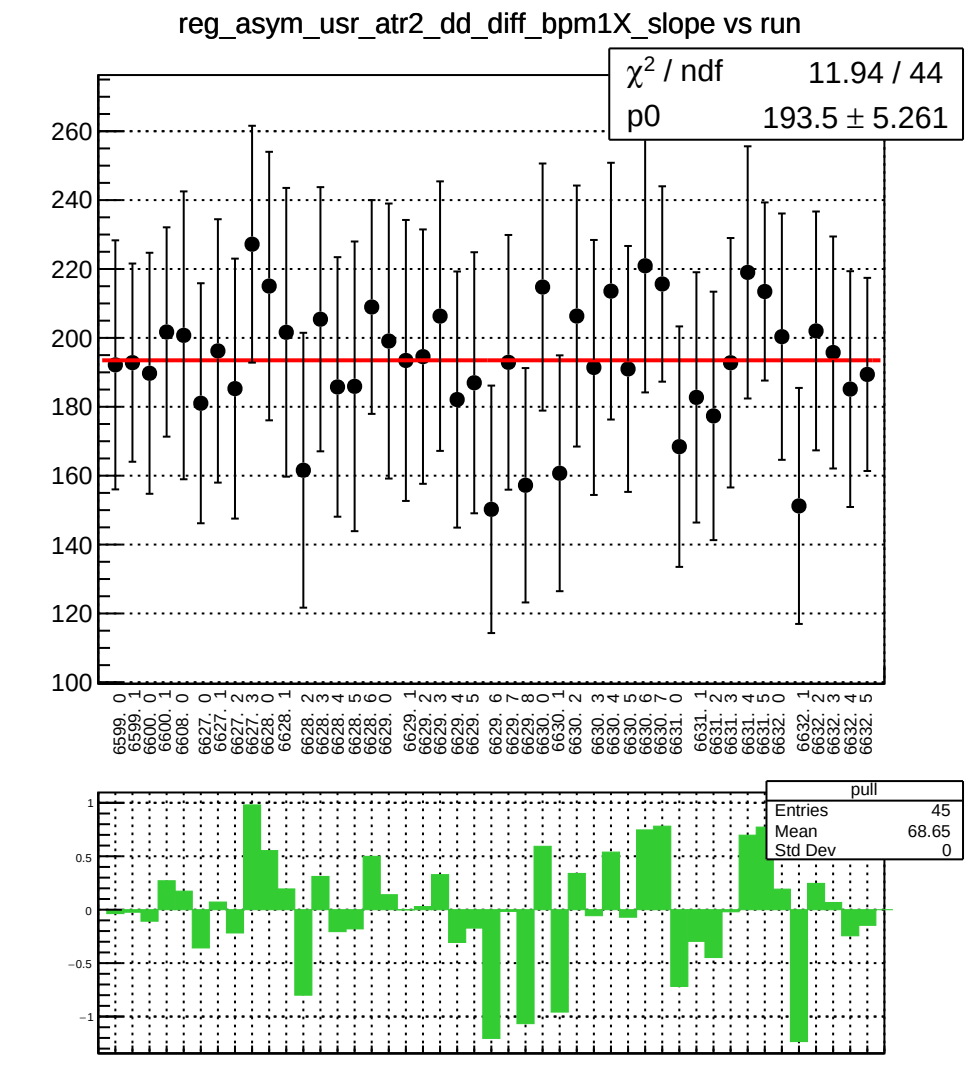

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.094 / 44
p0 27.09 ± 4.941
pull
Entries 45
Mean −157.9
Std Dev 0

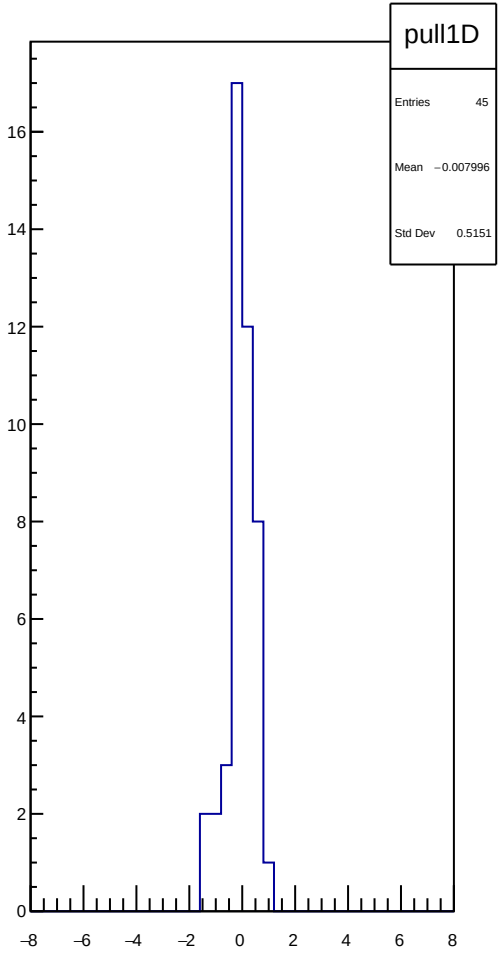

pull1D
Entries 45
Mean −0.004292
Std Dev 0.368

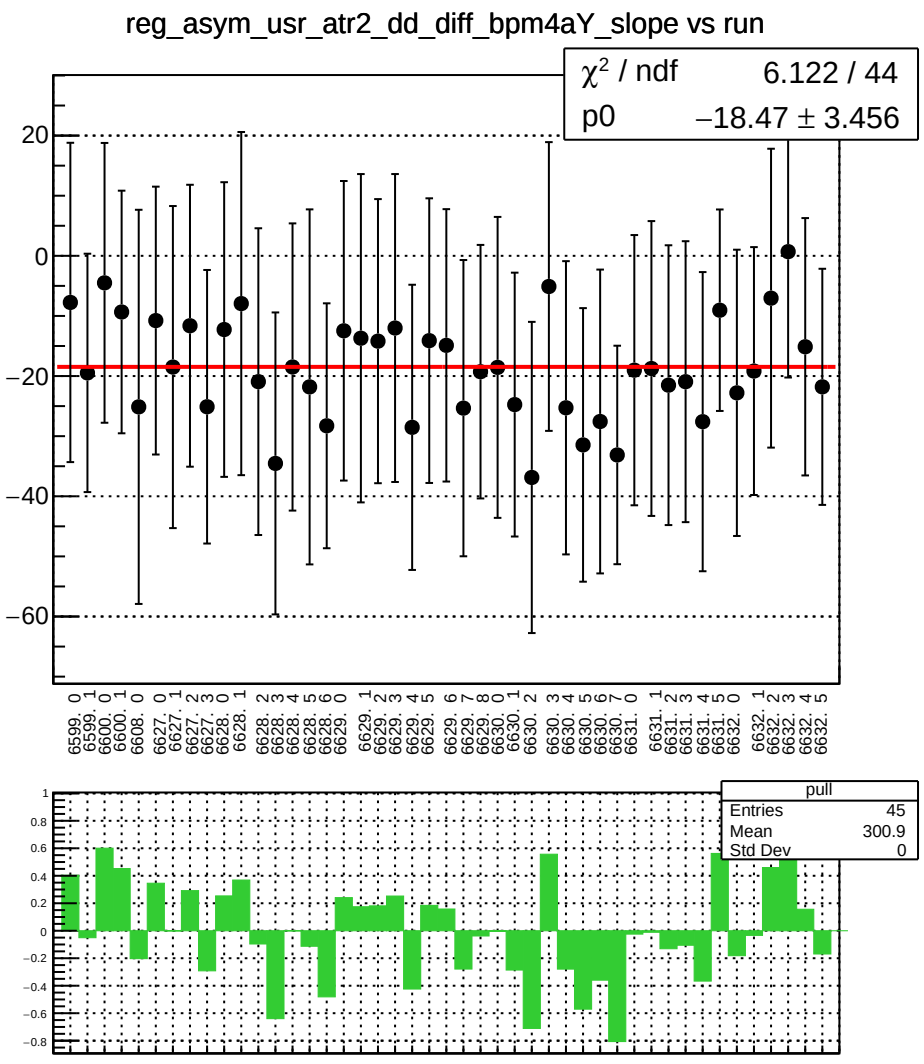

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.08 / 44
p0 373.3 ± 7.756
500
450
400
350
300
250
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 163.7
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.002774
Std Dev 0.5182
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

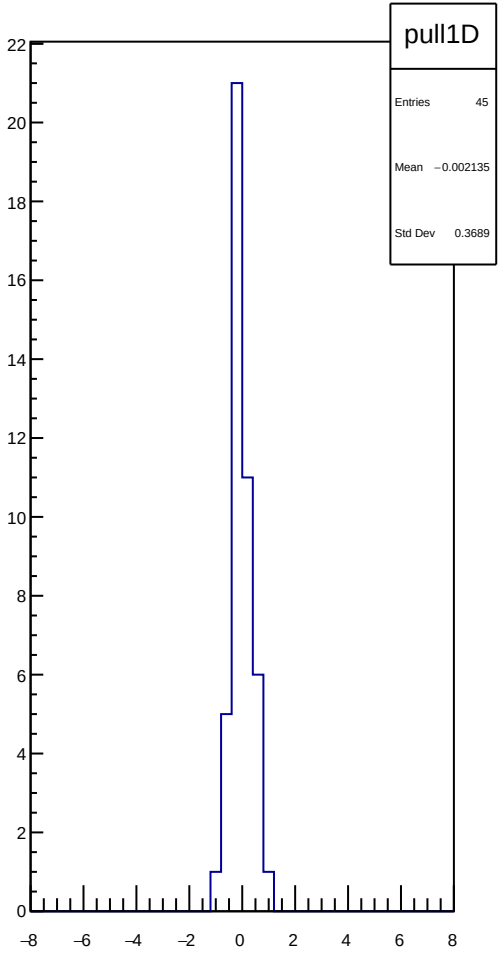

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.928 / 44
p0 71.67 ± 5.903
pull
Entries 45
Mean −52.5
Std Dev 0
pull1D
Entries 45
Mean 0.00705
Std Dev 0.3923

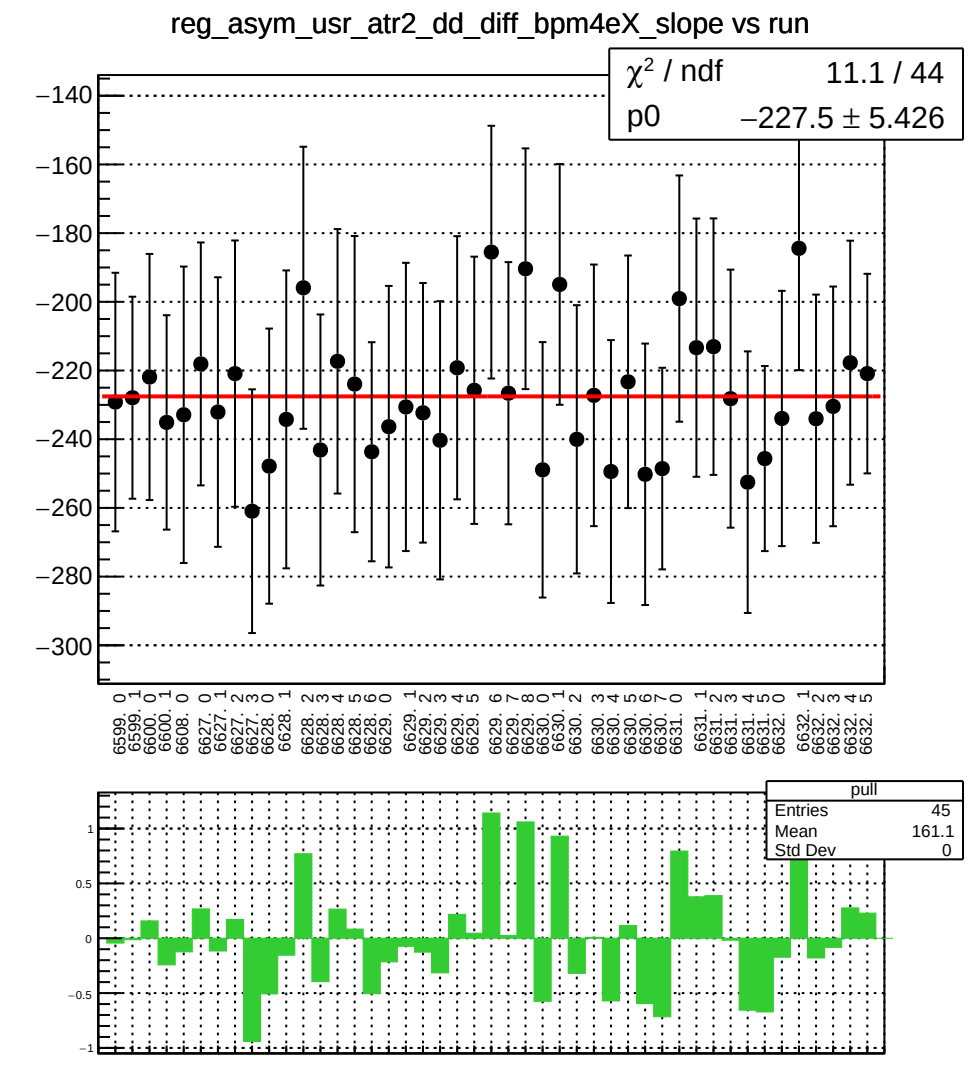

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 120.6 / 44
p0 −171.8 ± 0.3183
pull
Entries 45
Mean 229.2
Std Dev 0
pull1D
Entries 45
Mean −0.05855
Std Dev 1.636

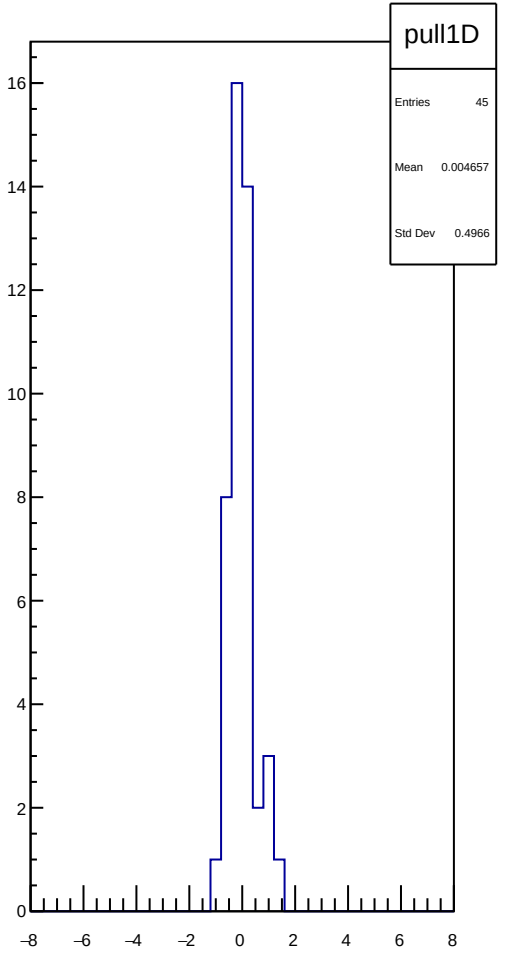

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 11.94 / 44
p0 193.5 ± 5.261
260
240
220
200
180
160
140
120
100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 68.65
Std Dev 0
1
0.5
0
−0.5
−1

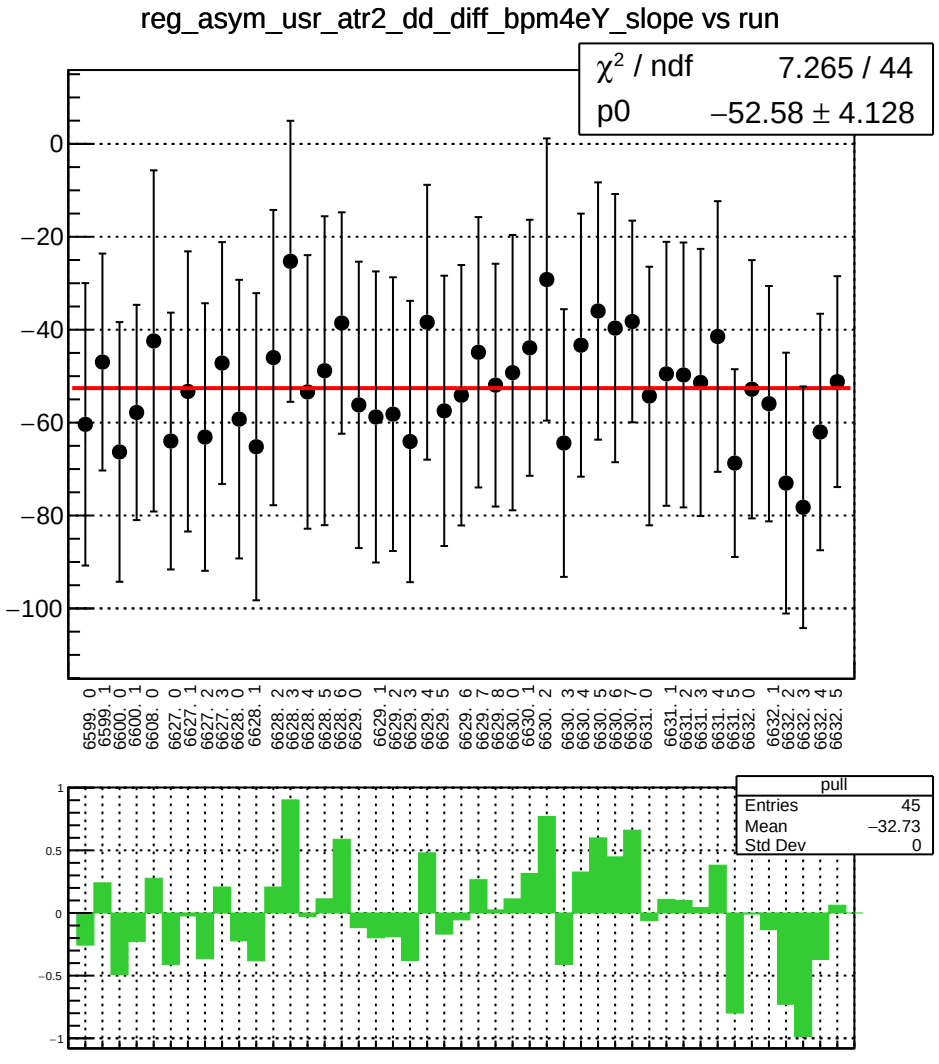

pull1D
Entries 45
Mean −0.007996
Std Dev 0.5151
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

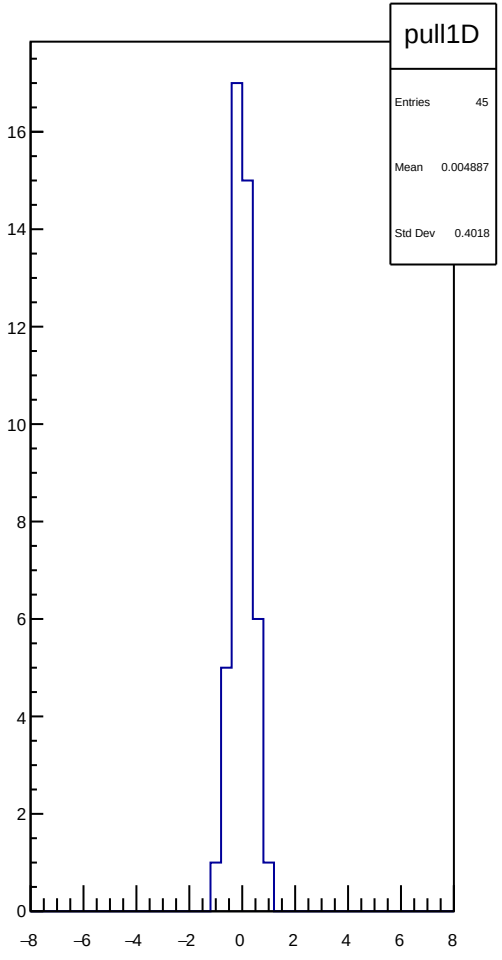

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.122 / 44
p0 −18.47 ± 3.456
pull
Entries 45
Mean 300.9
Std Dev 0

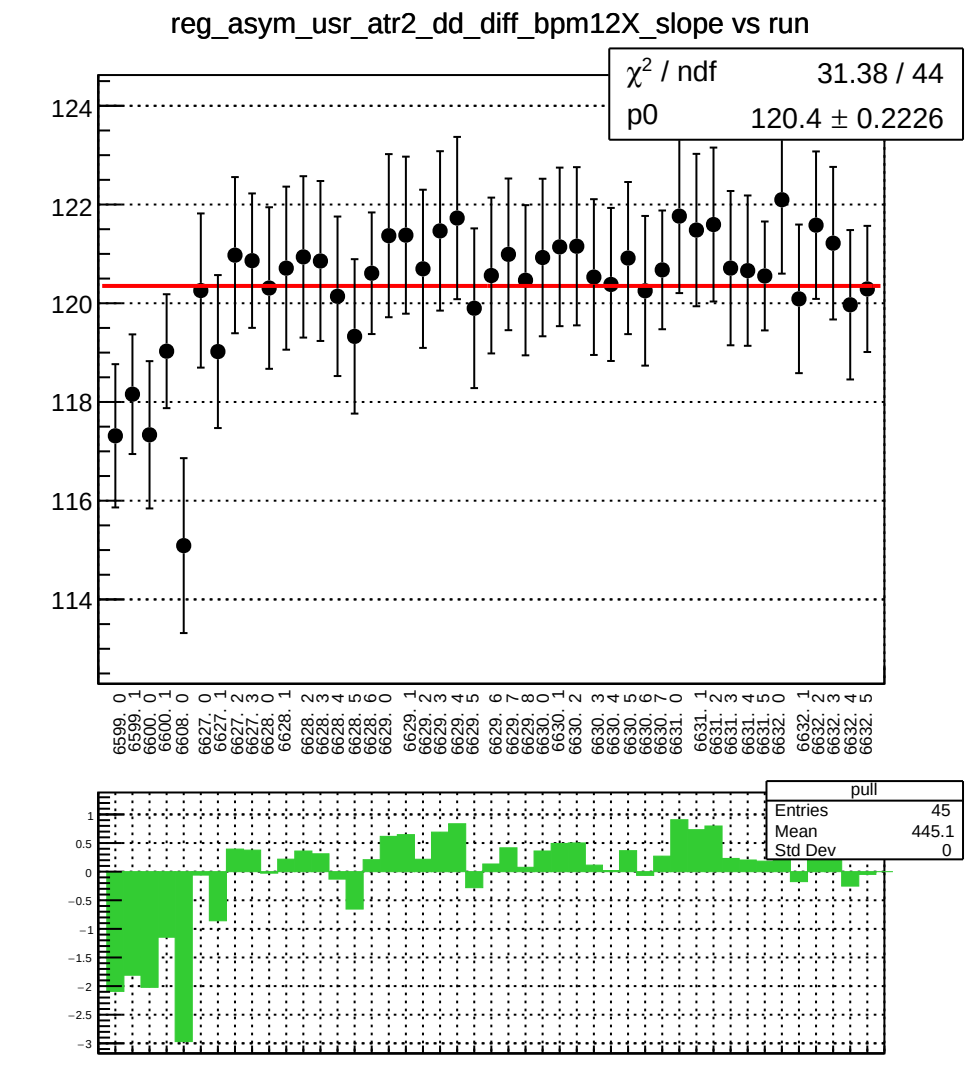

pull1D
Entries 45
Mean −0.002135
Std Dev 0.3689

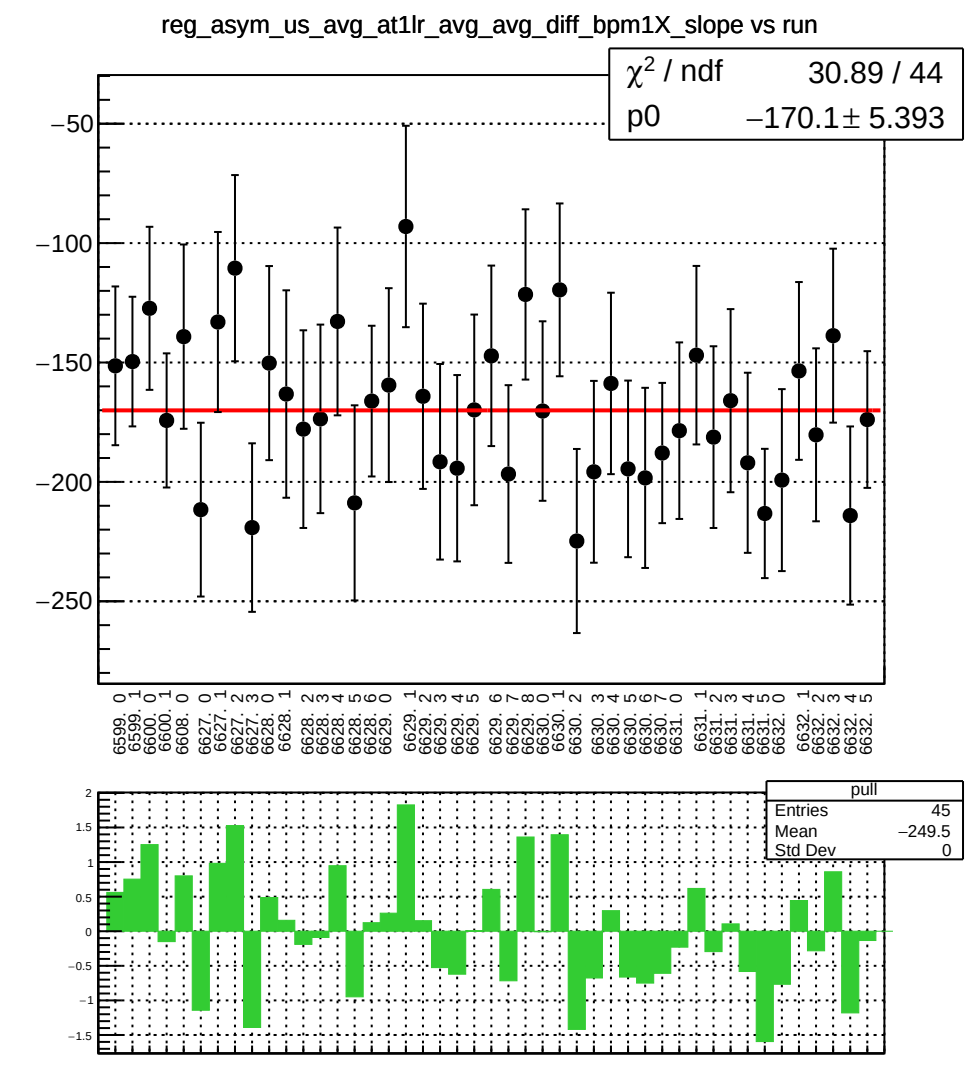

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.1 / 44
p0 −227.5 ± 5.426
pull
Entries 45
Mean 161.1
Std Dev 0

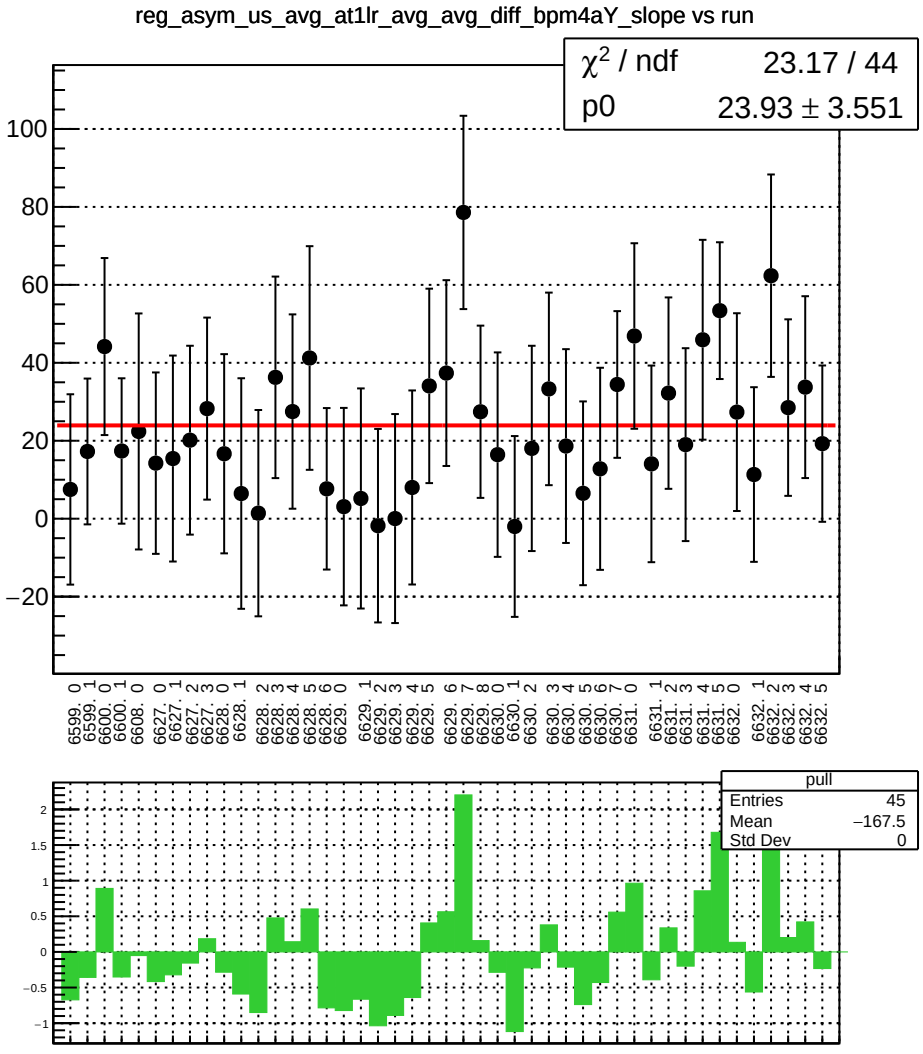

pull1D
Entries 45
Mean 0.004657
Std Dev 0.4966

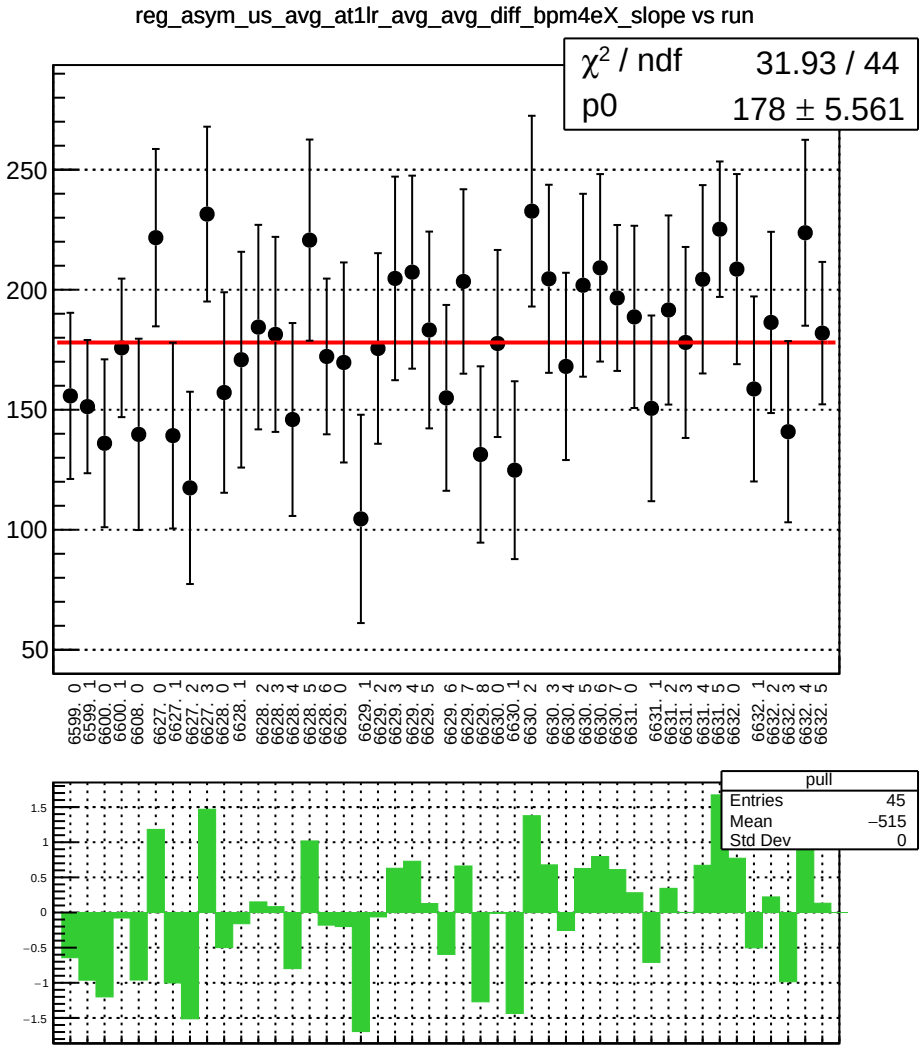

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.265 / 44
p0 −52.58 ± 4.128
0
−20
−40
−60
−80
−100
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −32.73
Std Dev 0
1
0.5
0
−0.5
−1

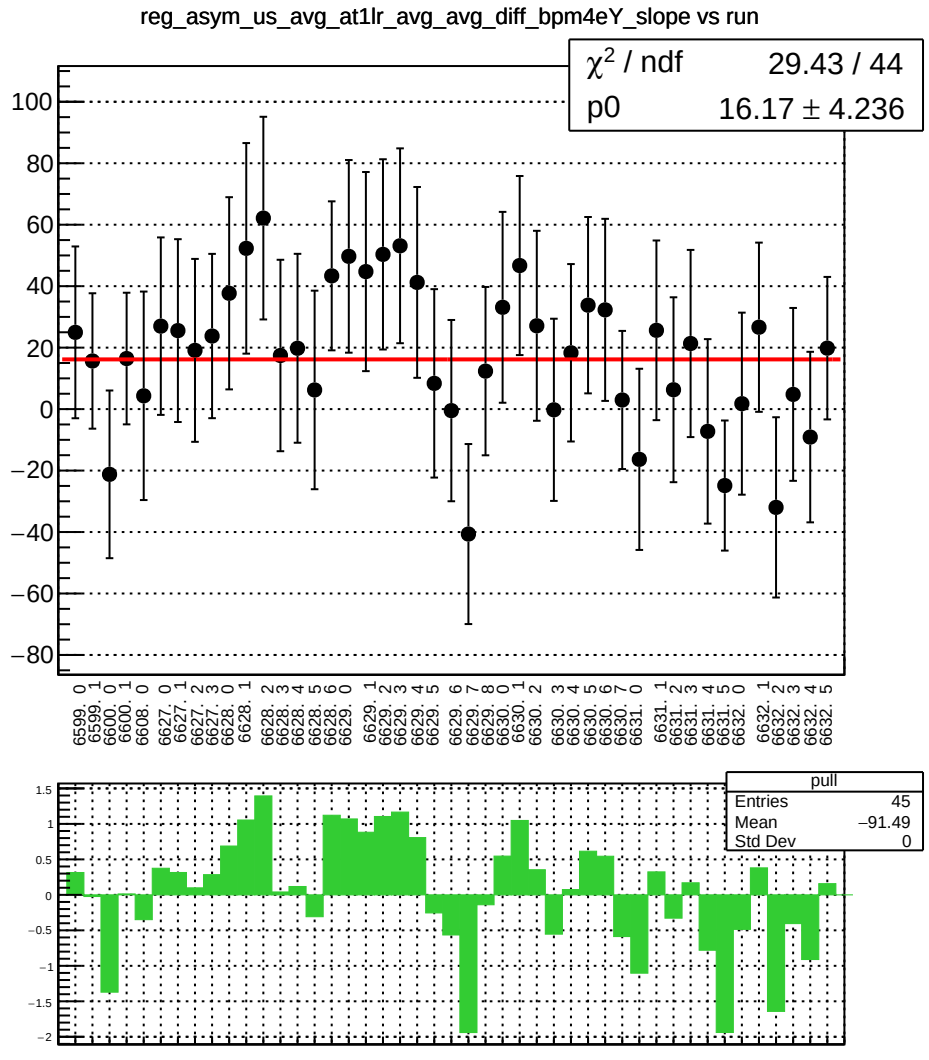

pull1D
Entries 45
Mean 0.004887
Std Dev 0.4018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

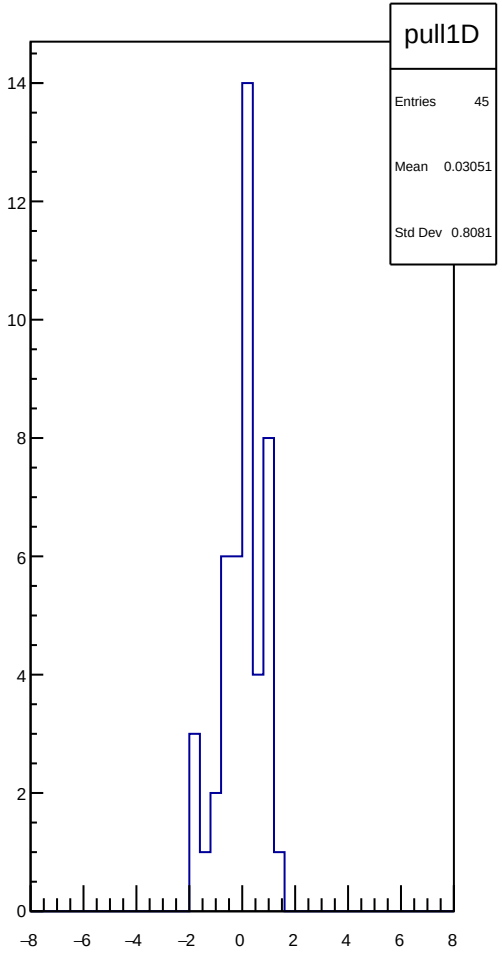

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 31.38 / 44
p0 120.4 ± 0.2226
124
122
120
118
116
114
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 445.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 45
Mean 0.01447
Std Dev 0.835
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

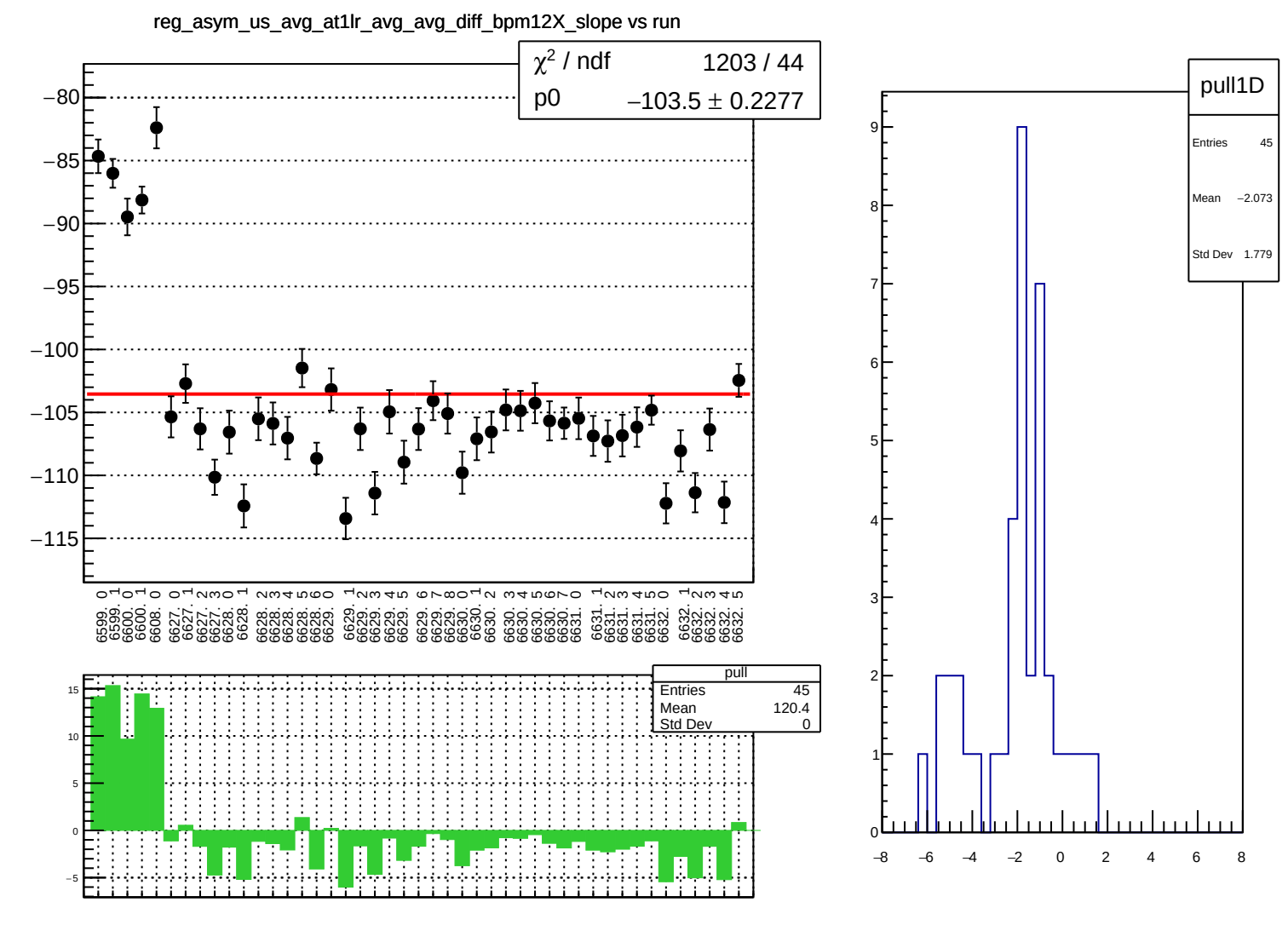

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 30.89 / 44
p0 −170.1 ± 5.393
−50
−100
−150
−200
−250
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −249.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.01244
Std Dev 0.8284
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

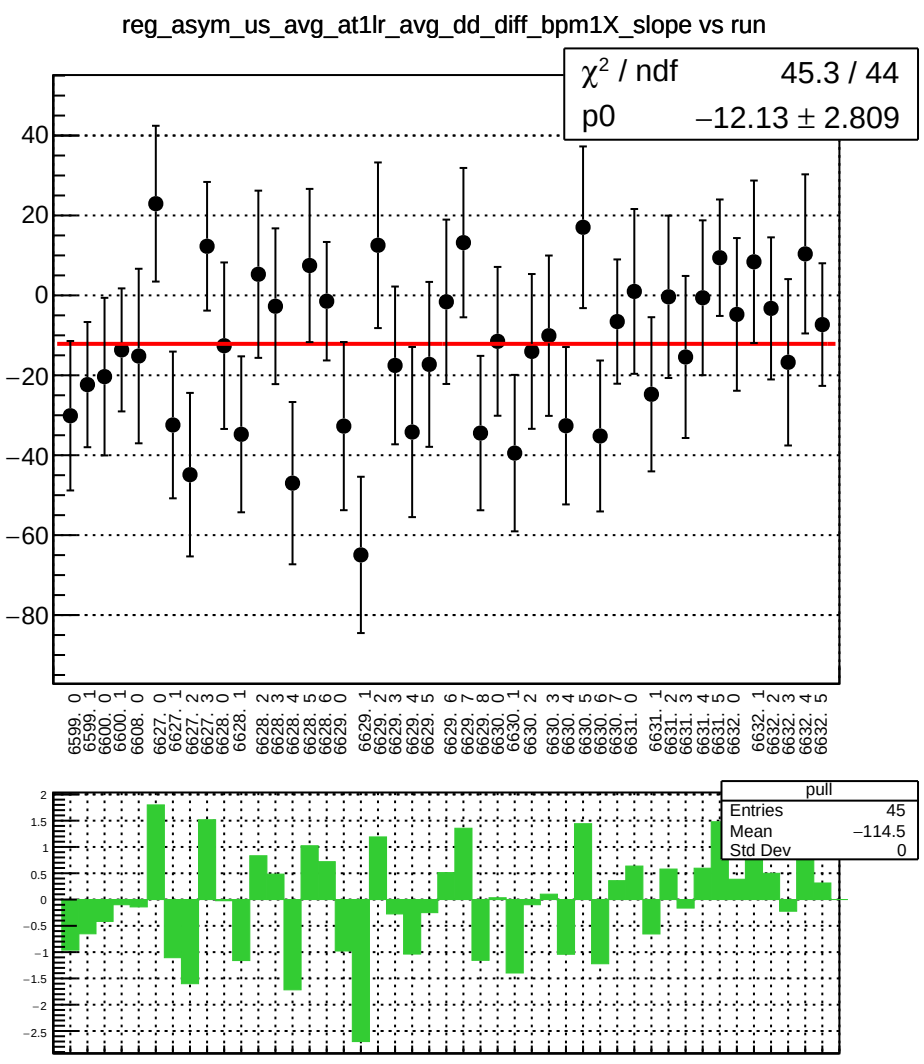

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 23.17 / 44
p0 23.93 ± 3.551
pull
Entries 45
Mean −167.5
Std Dev 0
pull1D
Entries 45
Mean −0.01434
Std Dev 0.7174

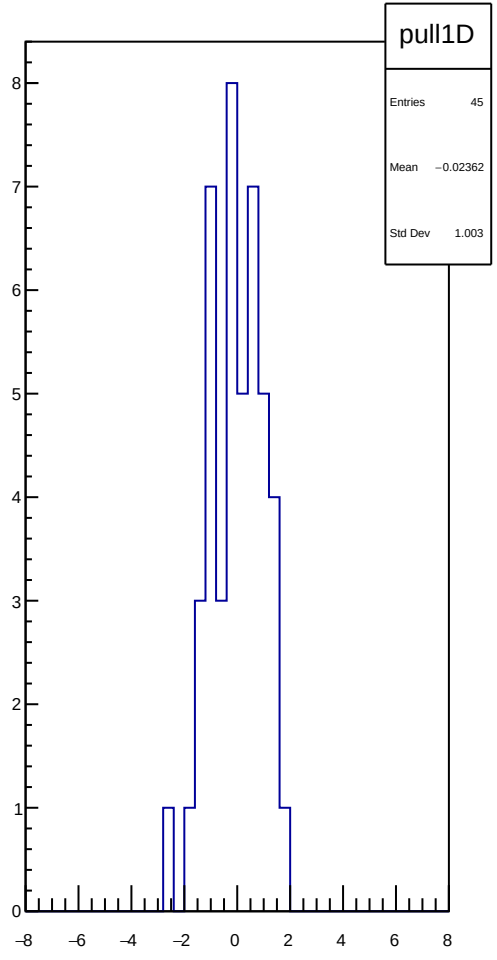

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 31.93 / 44
p0 178 ± 5.561
250
200
150
100
50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −515
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.006606
Std Dev 0.8423
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

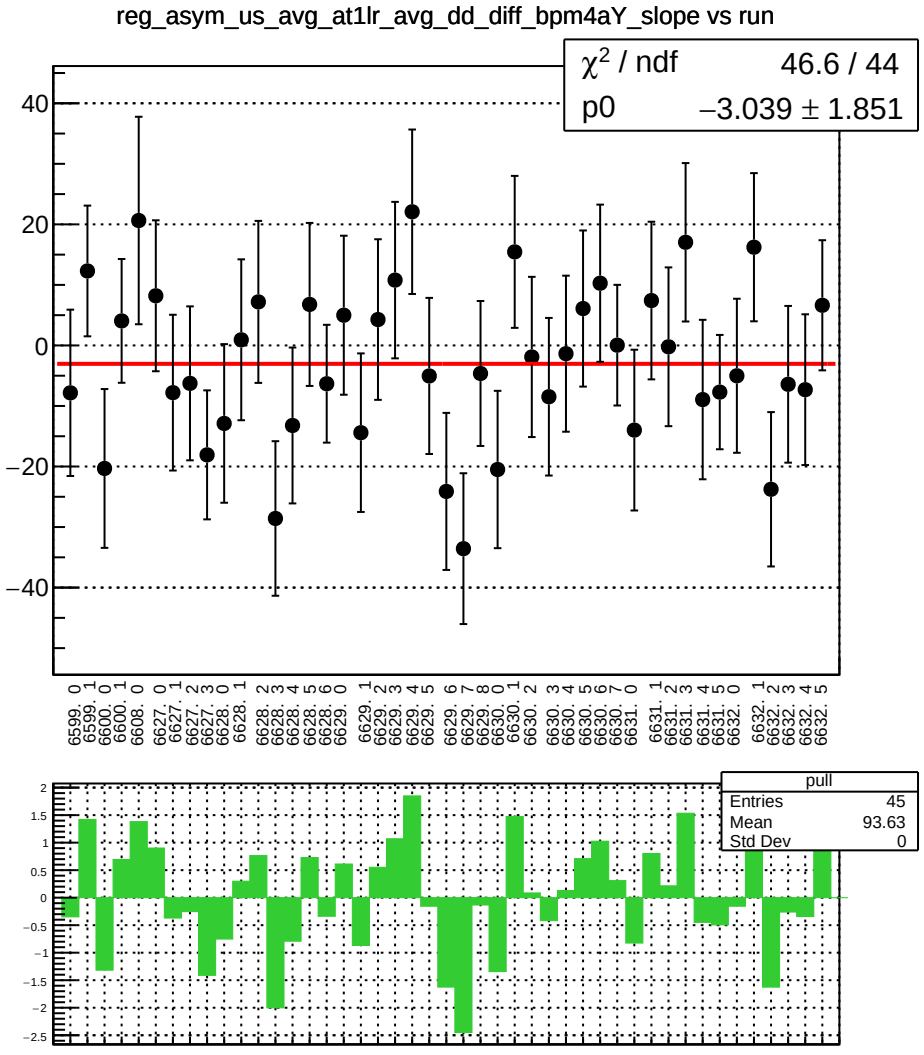

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.43 / 44
p0 16.17 ± 4.236
pull
Entries 45
Mean −91.49
Std Dev 0

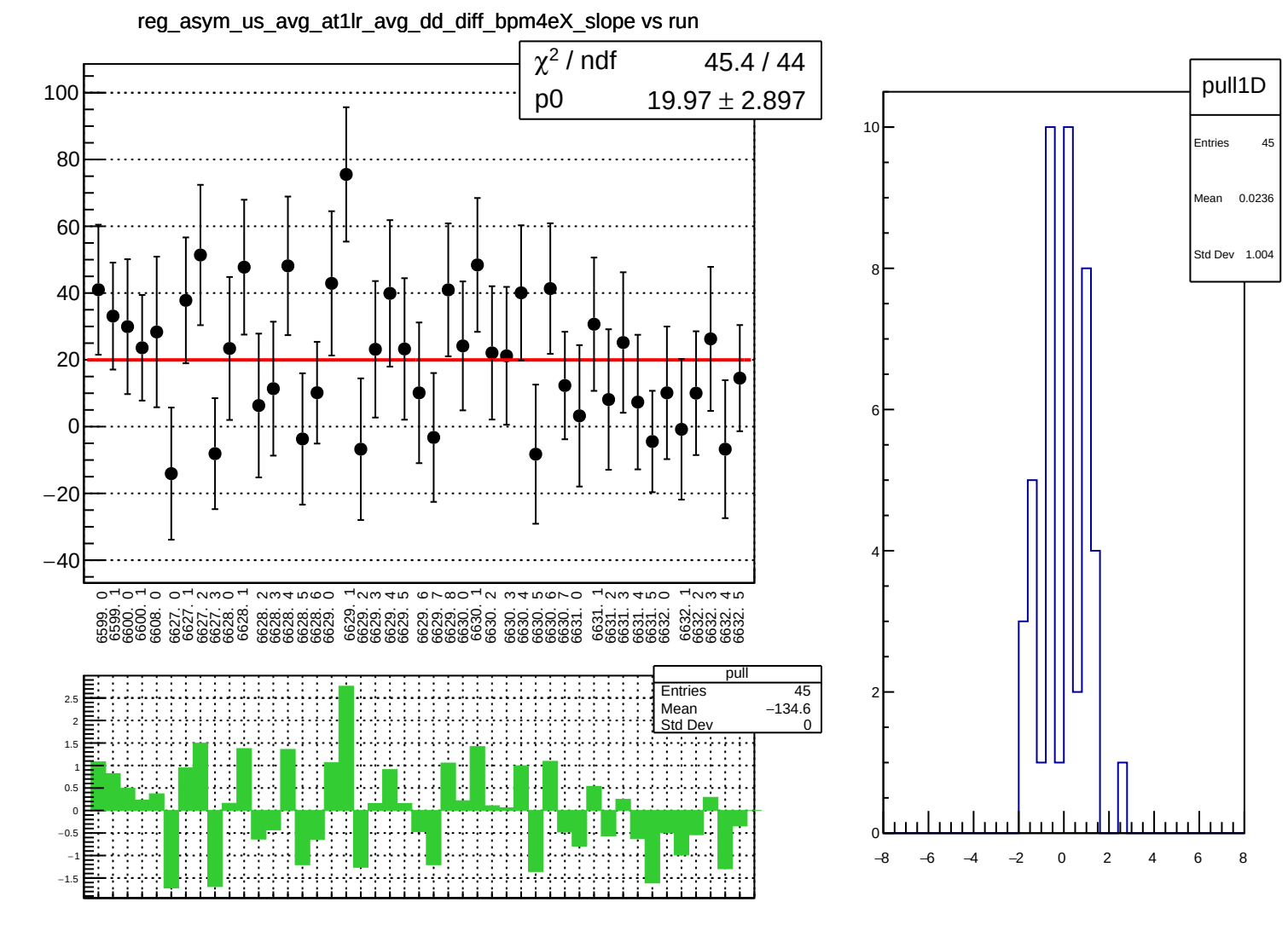

pull1D
Entries 45
Mean 0.03051
Std Dev 0.8081

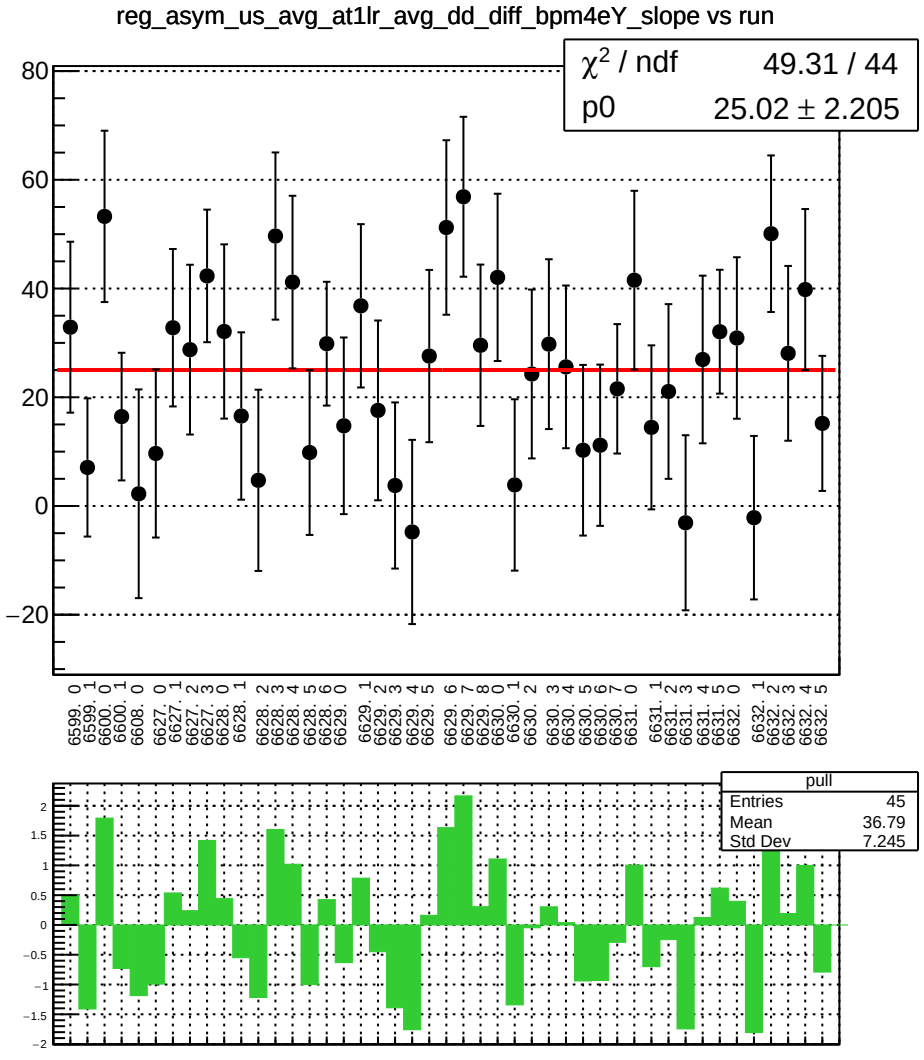

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 1203 / 44
p0 −103.5 ± 0.2277
pull
Entries 45
Mean 120.4
Std Dev 0
pull1D
Entries 45
Mean −2.073
Std Dev 1.779

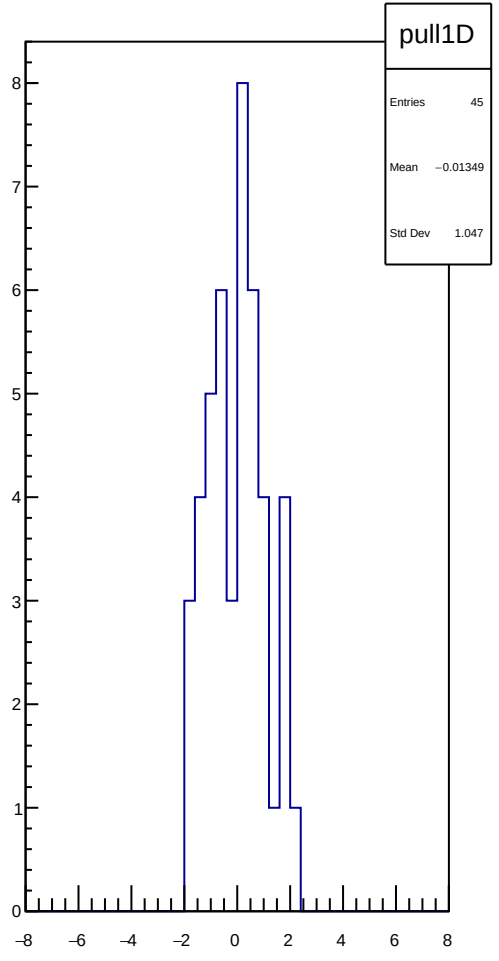

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 45.3 / 44
p0 −12.13 ± 2.809
pull
Entries 45
Mean −114.5
Std Dev 0

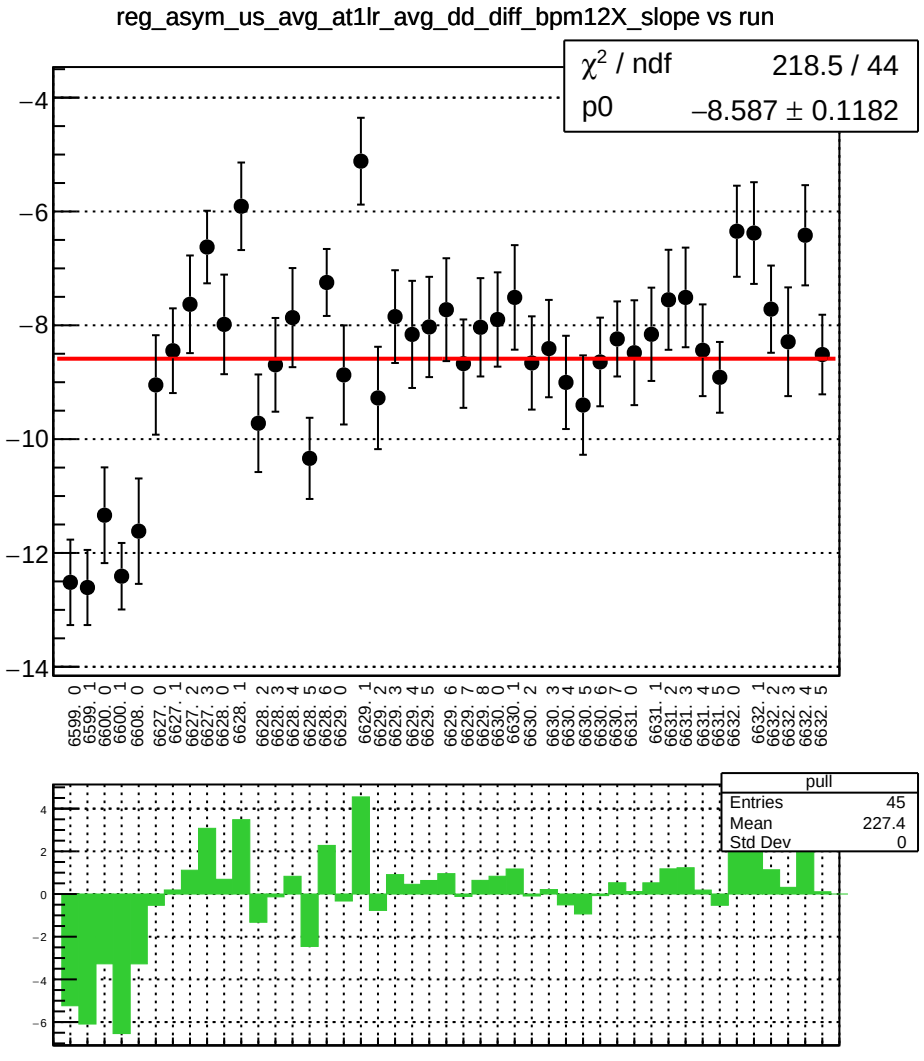

pull1D
Entries 45
Mean −0.02362
Std Dev 1.003

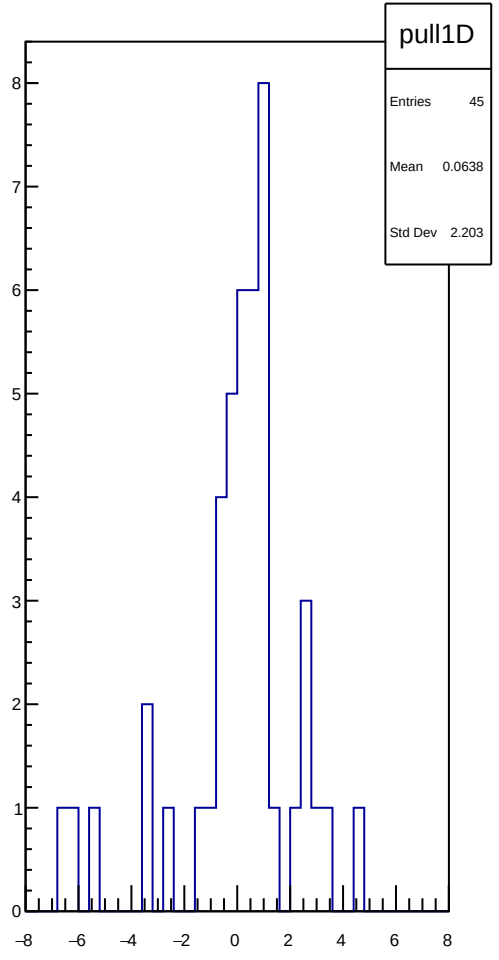

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 46.6 / 44
p0 −3.039 ± 1.851
pull
Entries 45
Mean 93.63
Std Dev 0
pull1D
Entries 45
Mean 0.006809
Std Dev 1.018

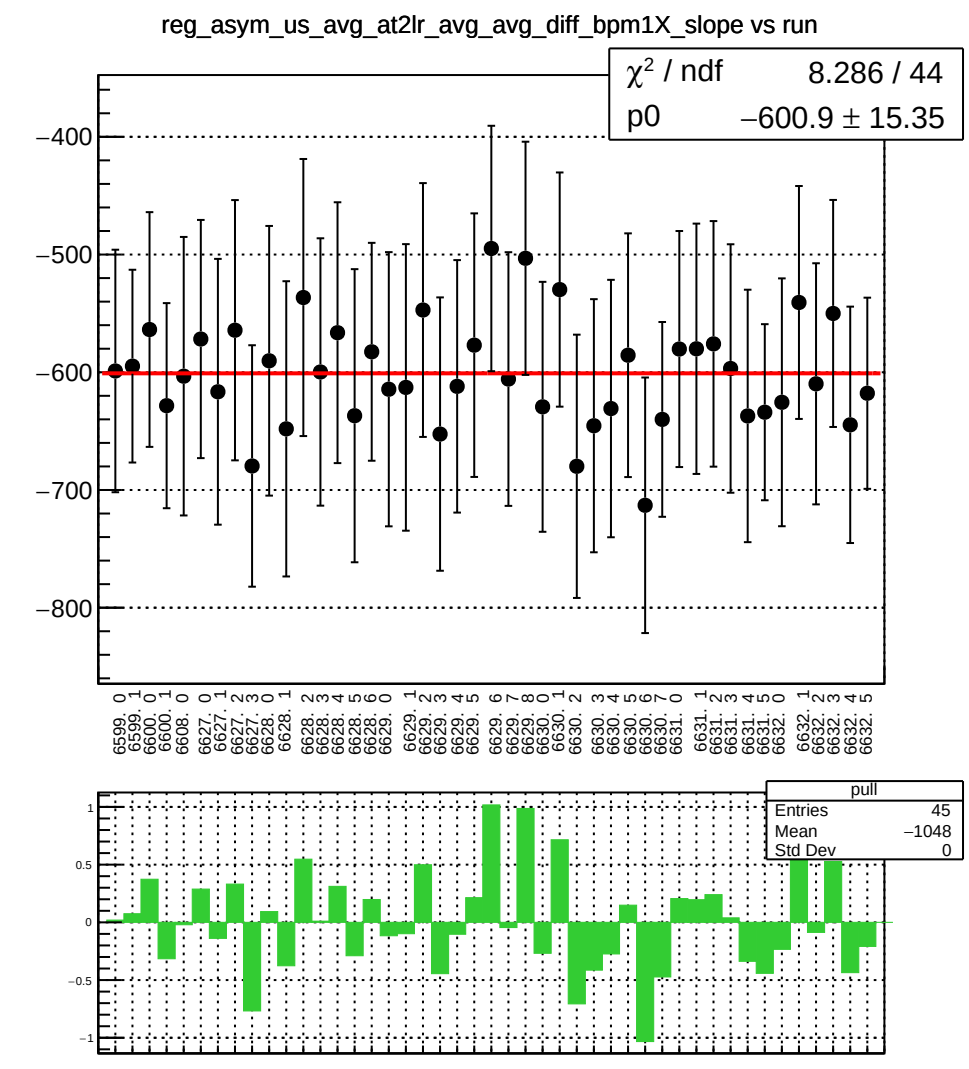

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 45.4 / 44
p0 19.97 ± 2.897
pull
Entries 45
Mean −134.6
Std Dev 0
pull1D
Entries 45
Mean 0.0236
Std Dev 1.004

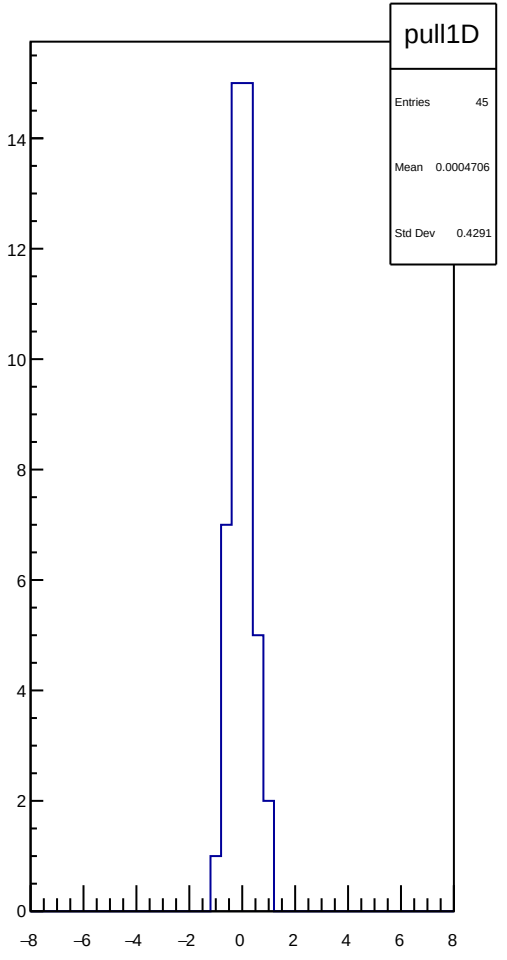

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 49.31 / 44
p0 25.02 ± 2.205
pull
Entries 45
Mean 36.79
Std Dev 7.245

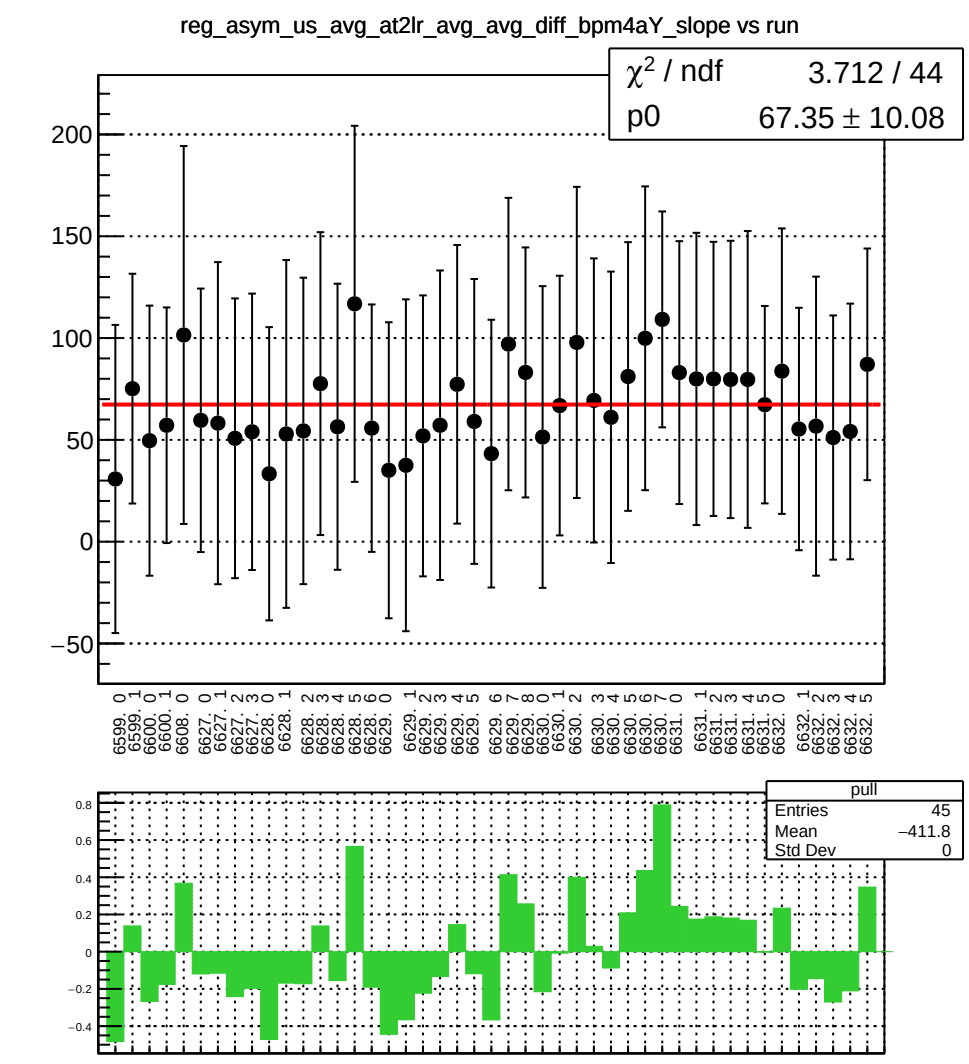

pull1D
Entries 45
Mean −0.01349
Std Dev 1.047

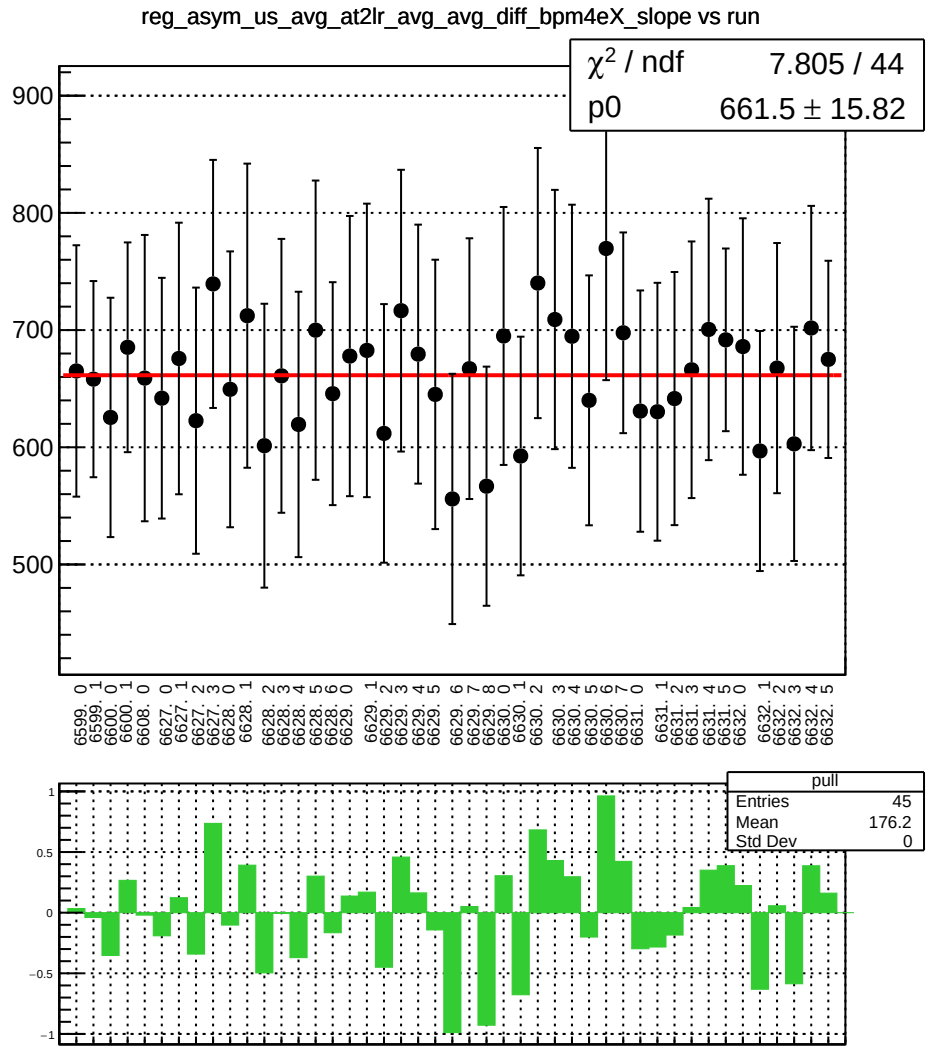

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 218.5 / 44
p0 −8.587 ± 0.1182
pull
Entries 45
Mean 227.4
Std Dev 0

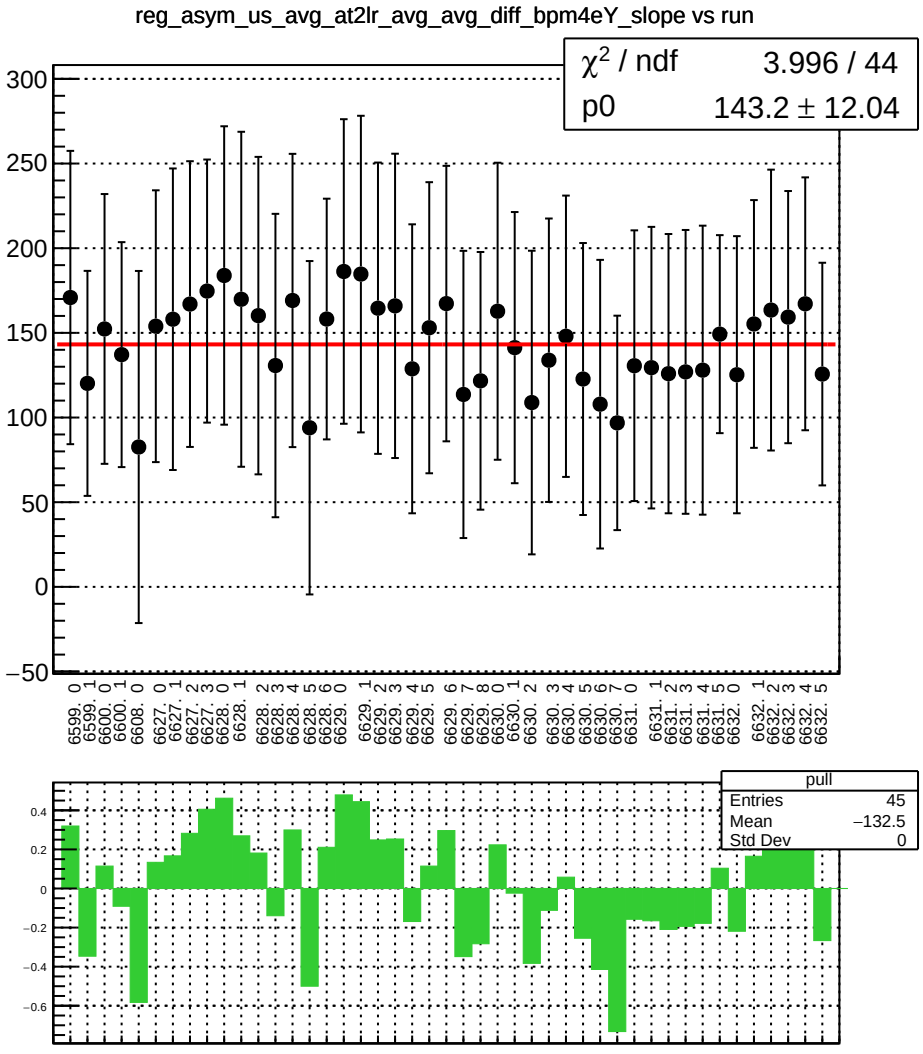

pull1D
Entries 45
Mean 0.0638
Std Dev 2.203

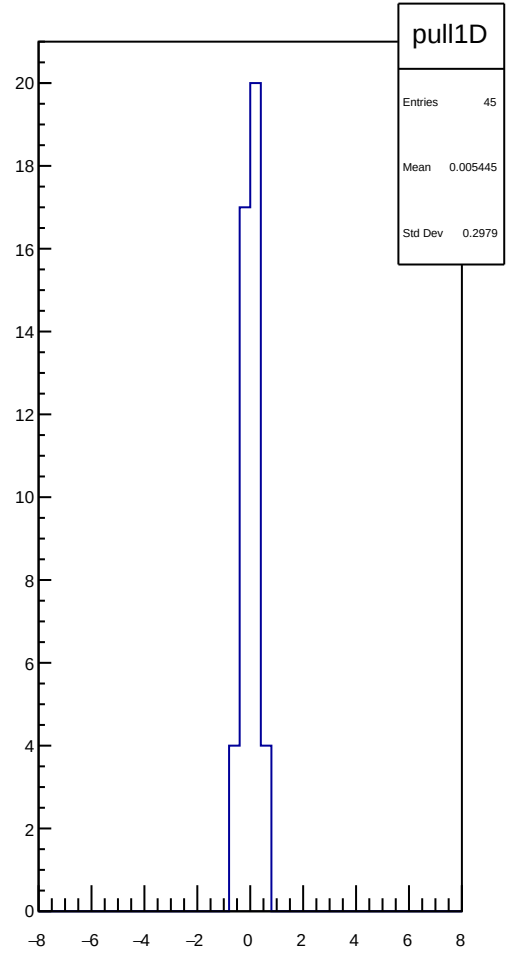

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 8.286 / 44
p0 −600.9 ± 15.35
−400
−500
−600
−700
−800
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −1048
Std Dev 0
1
0.5
0
−0.5
−1

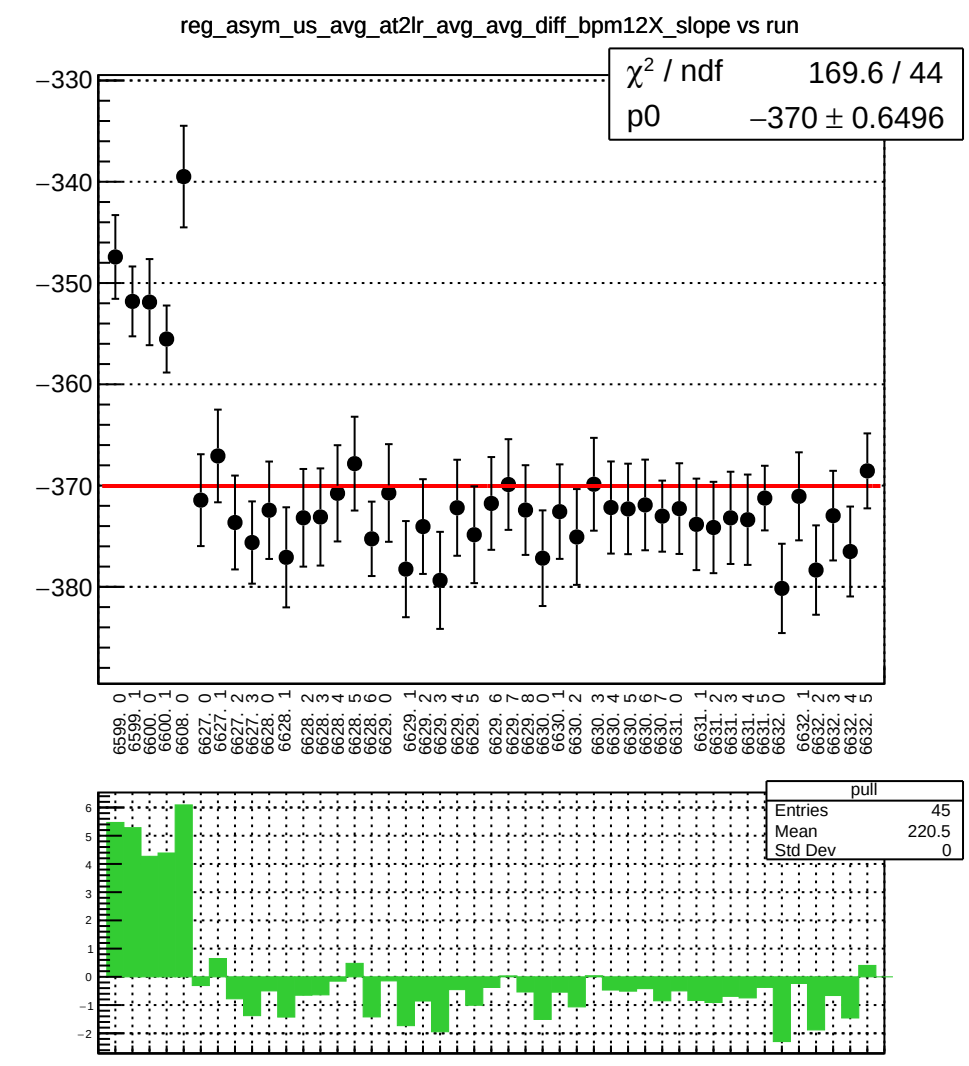

pull1D
Entries 45
Mean 0.0004706
Std Dev 0.4291
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

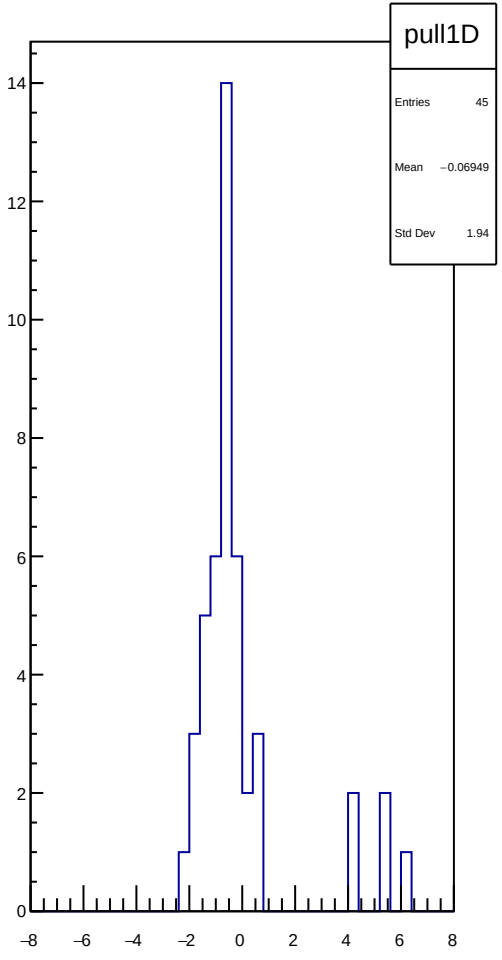

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.712 / 44
p0 67.35 ± 10.08
200
150
100
50
0
−50
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −411.8
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 45
Mean −0.00284
Std Dev 0.2872
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

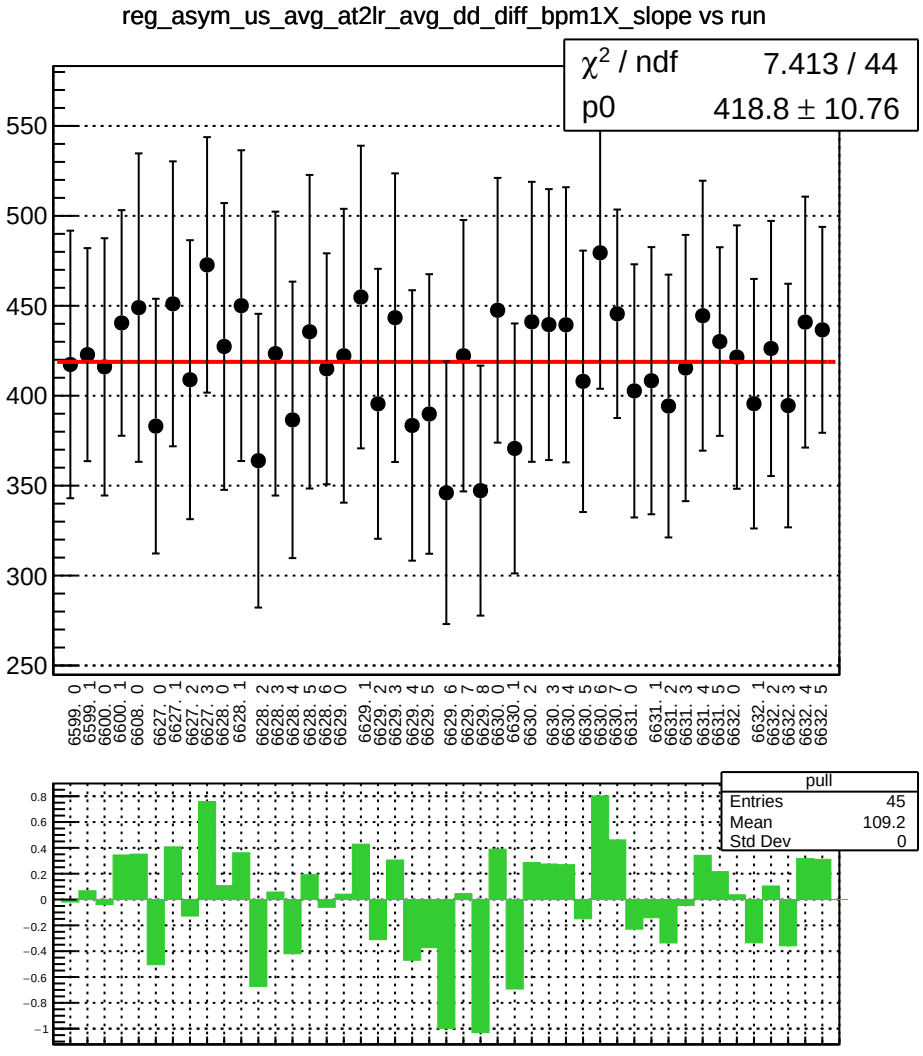

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.805 / 44
p0 661.5 ± 15.82
900
800
700
600
500
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 176.2
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean 0.001953
Std Dev 0.4165
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

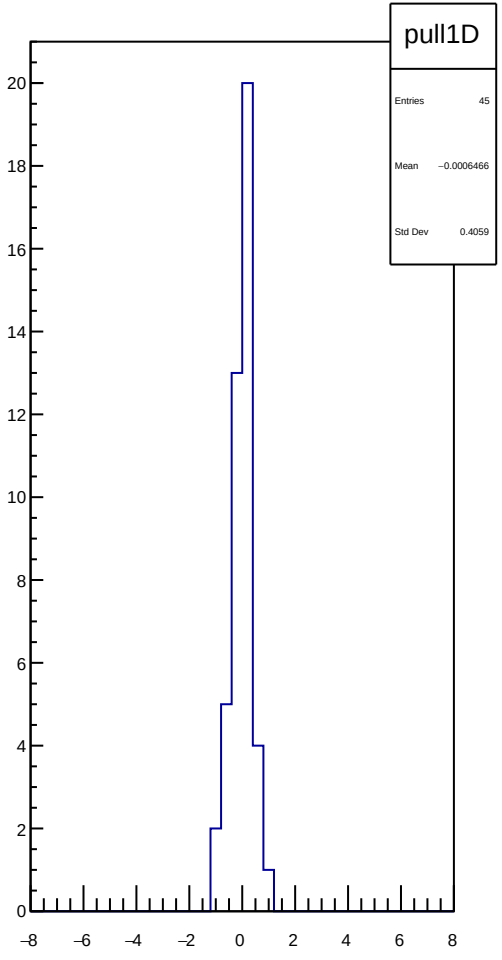

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.996 / 44
p0 143.2 ± 12.04
pull
Entries 45
Mean −132.5
Std Dev 0

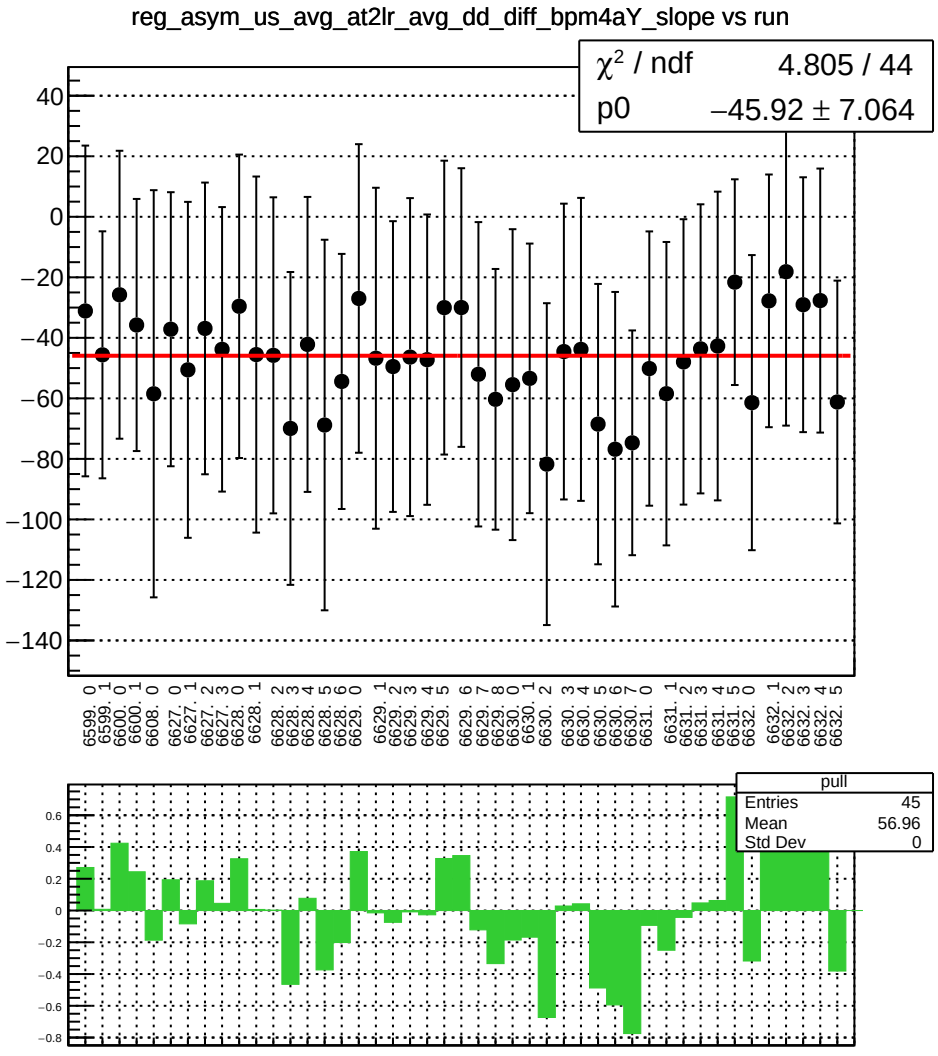

pull1D
Entries 45
Mean 0.005445
Std Dev 0.2979

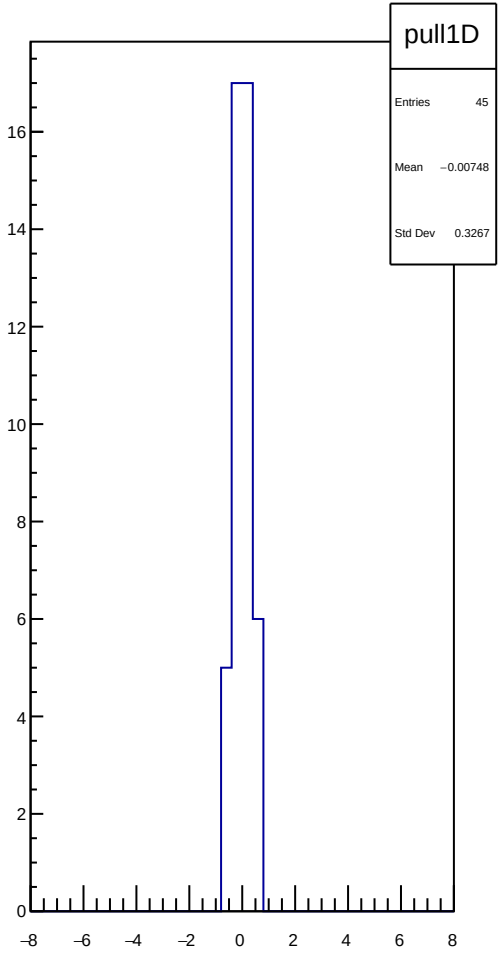

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 169.6 / 44
p0 −370 ± 0.6496
−330
−340
−350
−360
−370
−380
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 220.5
Std Dev 0
6
5
4
3
2
1
0
−1
−2

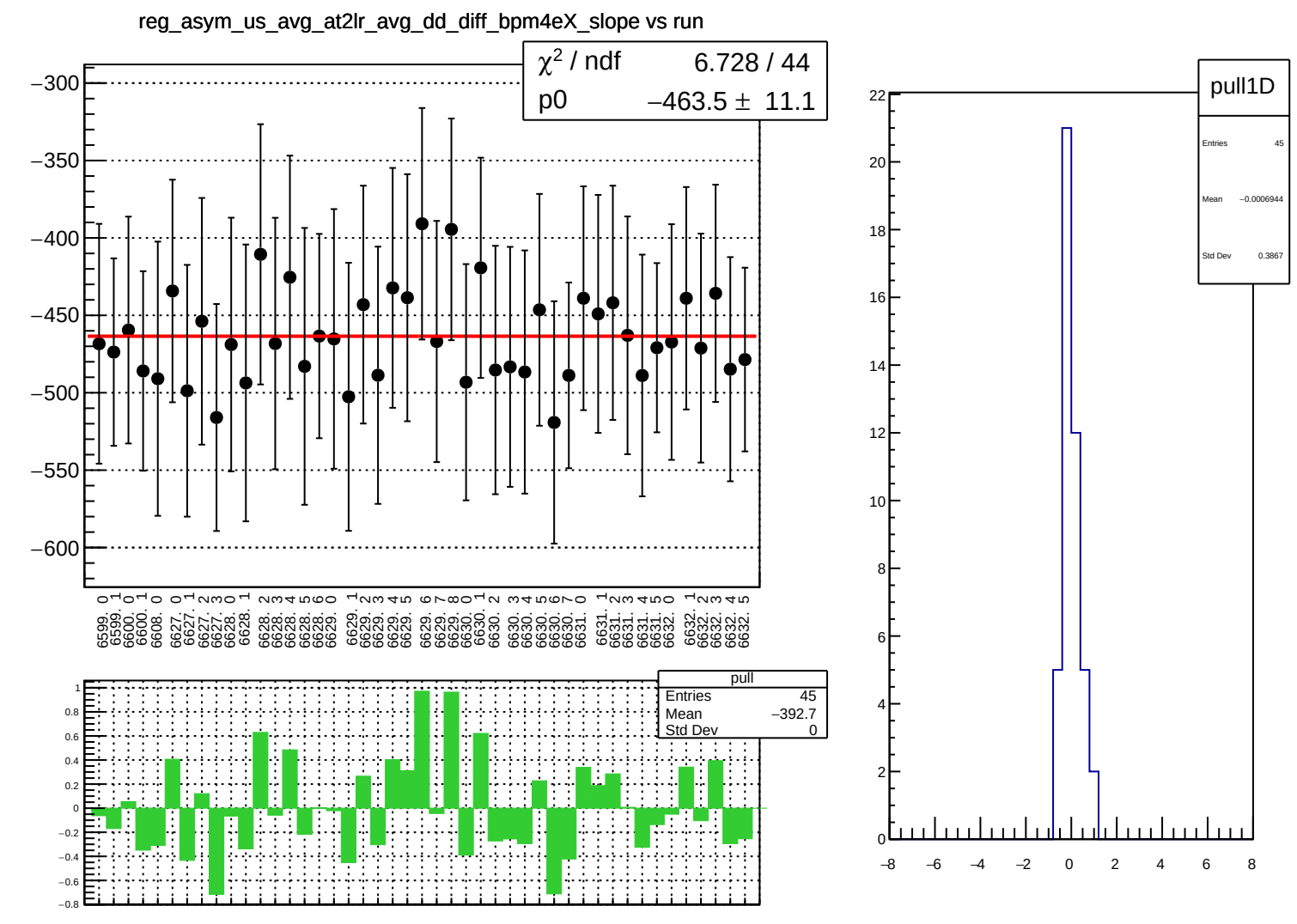

pull1D
Entries 45
Mean −0.06949
Std Dev 1.94
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

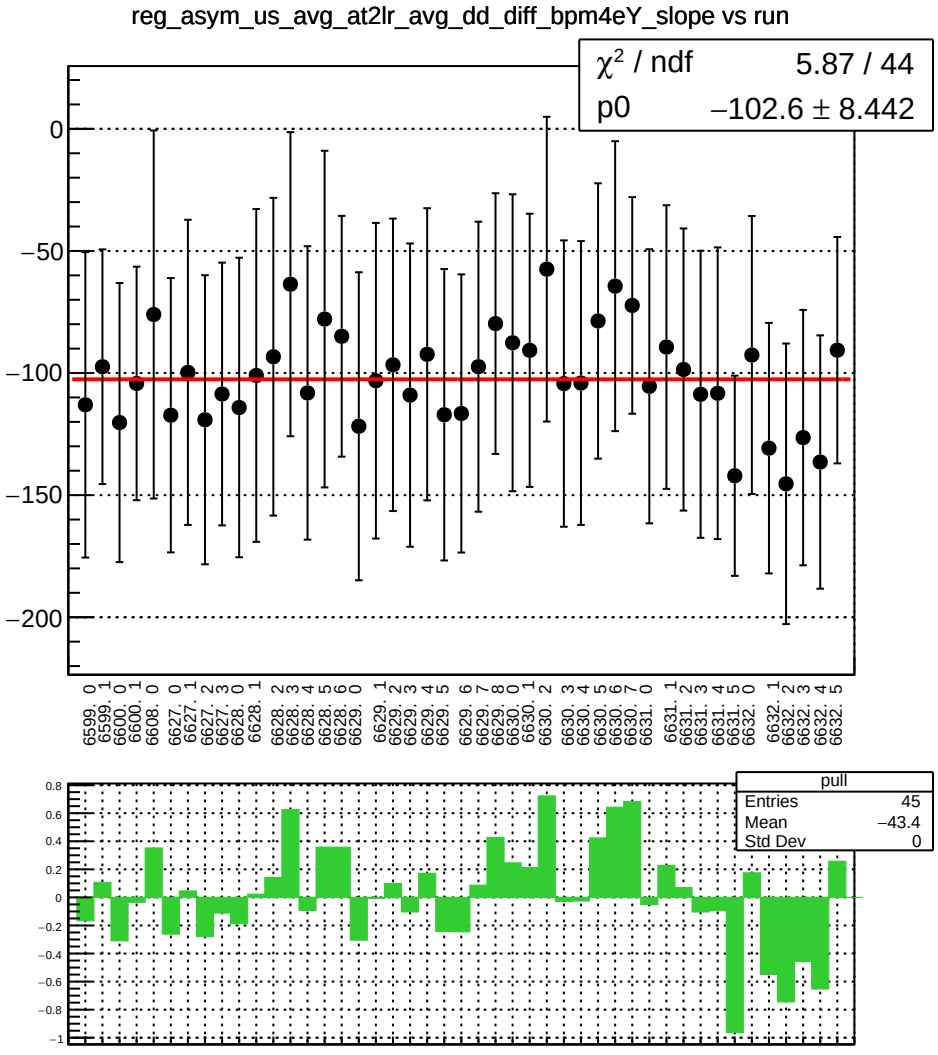

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 7.413 / 44
p0 418.8 ± 10.76
pull
Entries 45
Mean 109.2
Std Dev 0

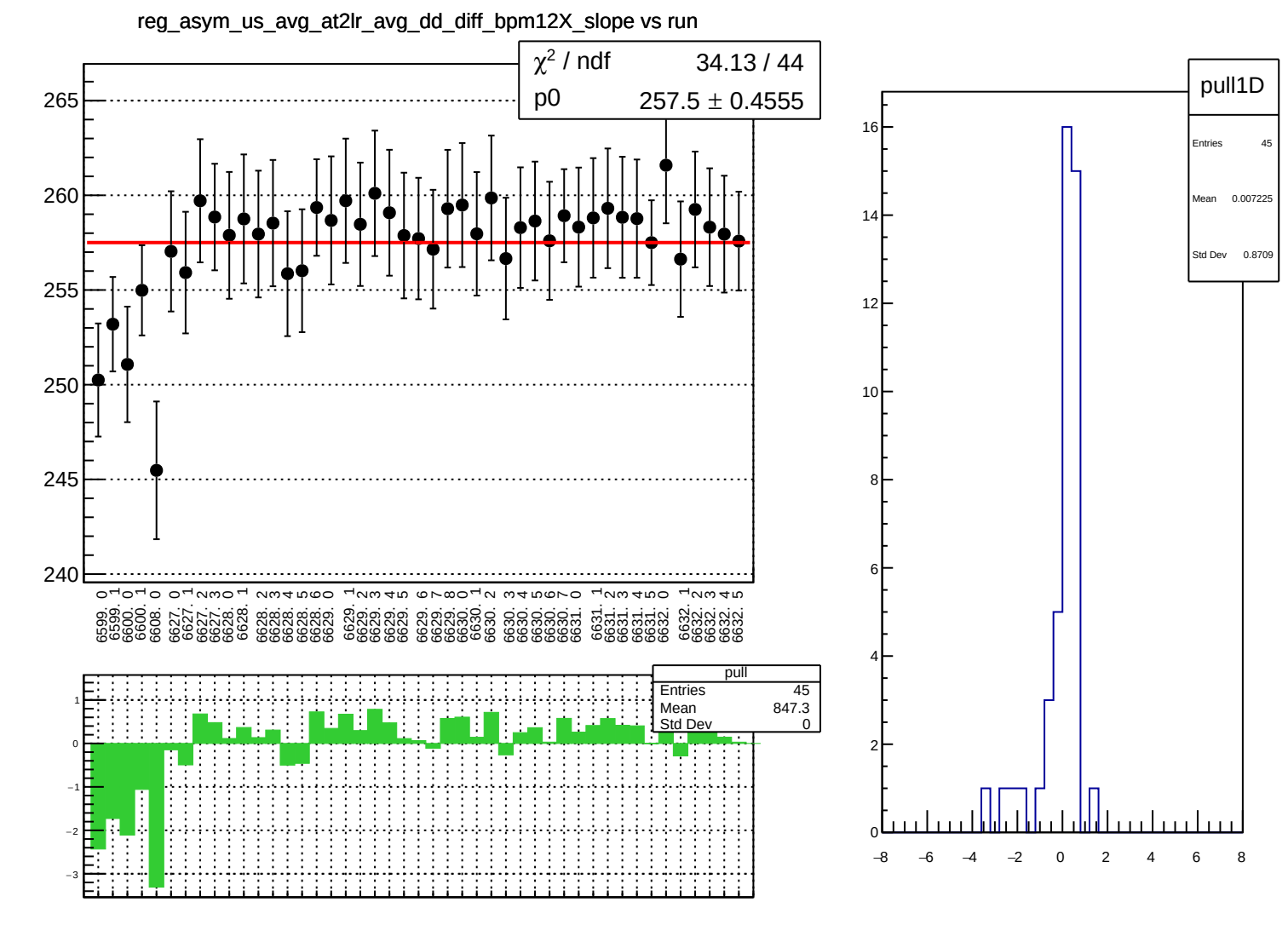

pull1D
Entries 45
Mean −0.0006466
Std Dev 0.4059

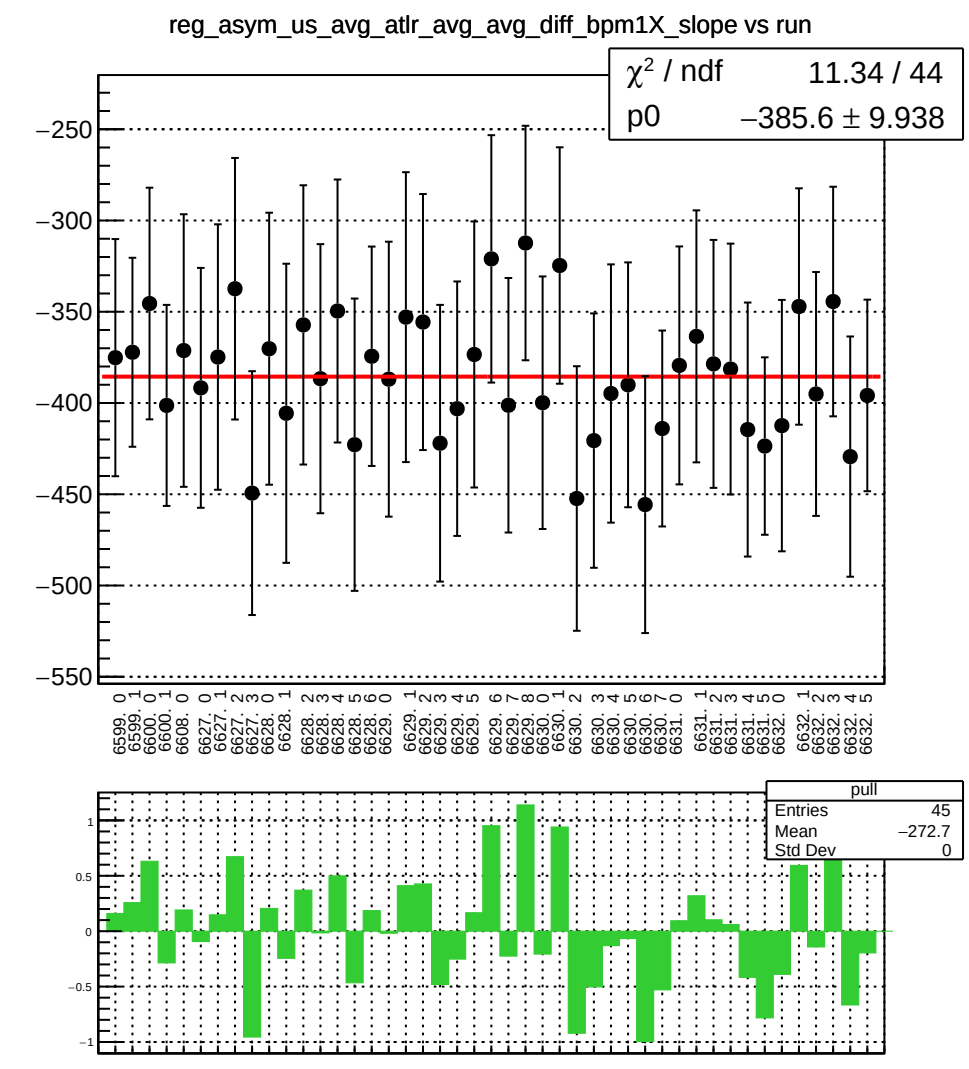

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.805 / 44
p0 −45.92 ± 7.064
pull
Entries 45
Mean 56.96
Std Dev 0

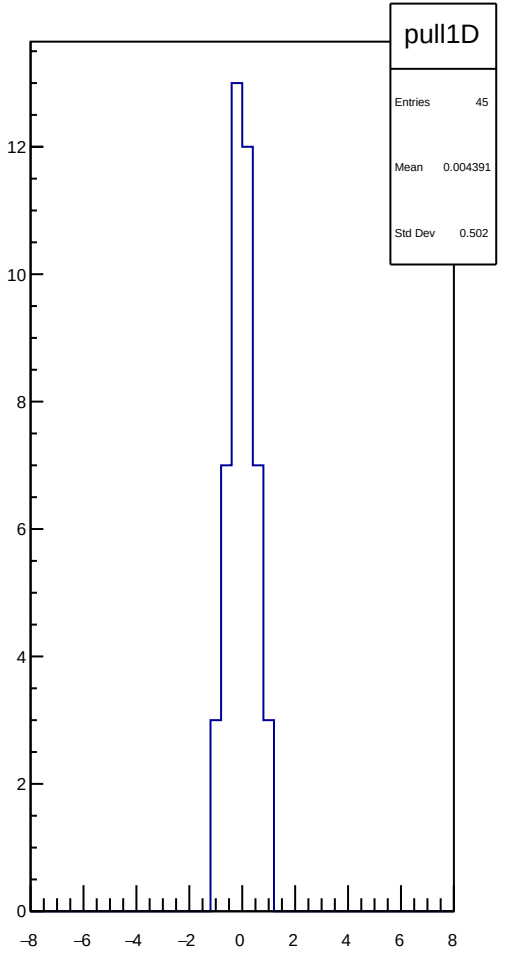

pull1D
Entries 45
Mean −0.00748
Std Dev 0.3267

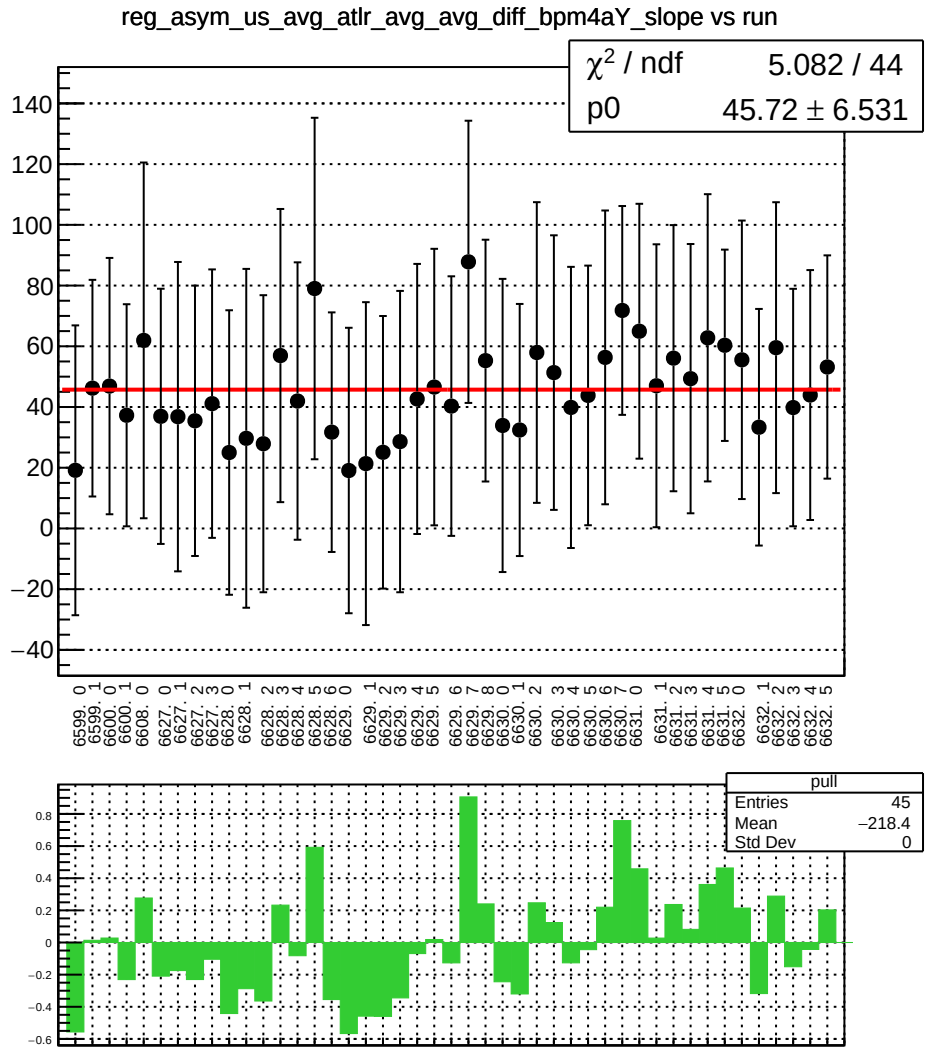

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.728 / 44
p0 −463.5 ± 11.1
−300
−350
−400
−450
−500
−550
−600
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −392.7
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean −0.0006944
Std Dev 0.3867
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

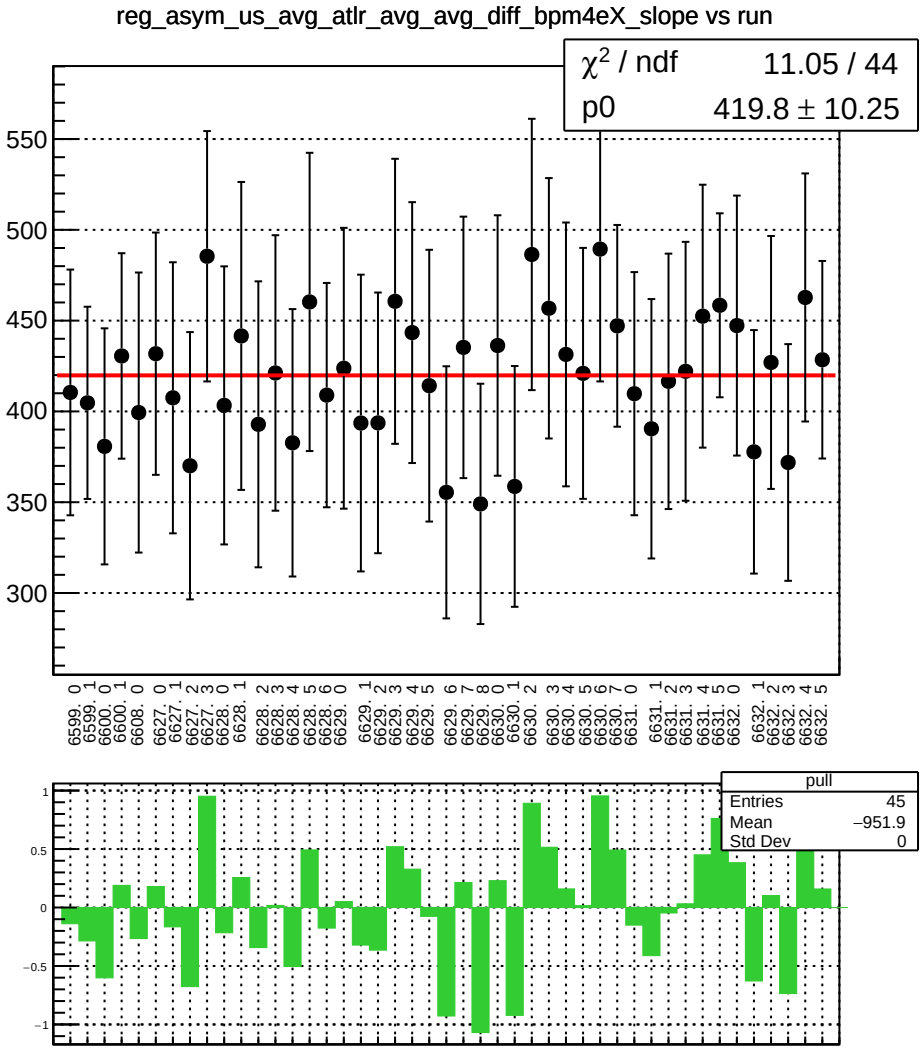

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.87 / 44
p0 −102.6 ± 8.442
0
−50
−100
−150
−200
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −43.4
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 45
Mean 0.009698
Std Dev 0.361
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

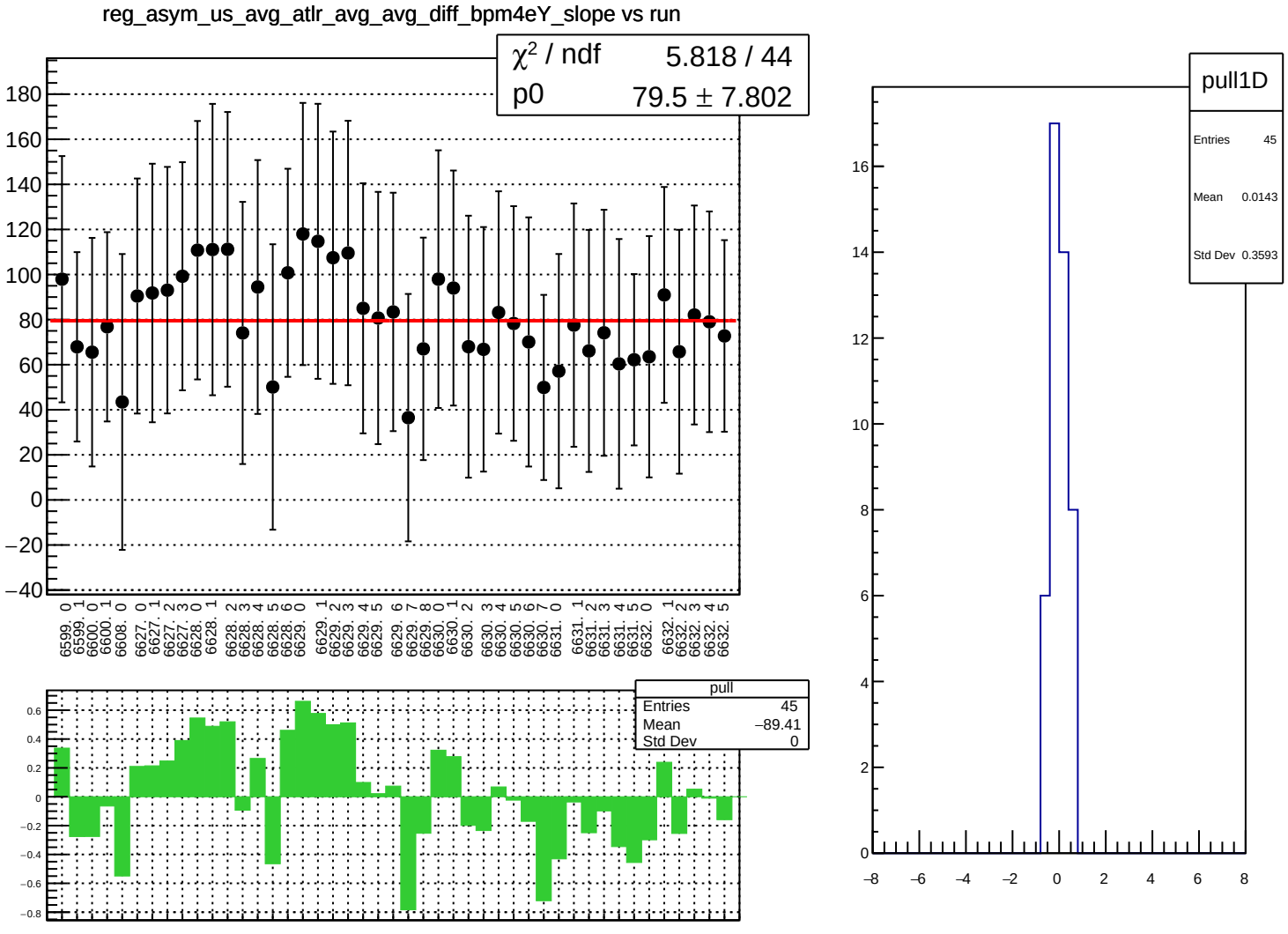

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 34.13 / 44
p0 257.5 ± 0.4555
265
260
255
250
245
240
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 847.3
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.007225
Std Dev 0.8709
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

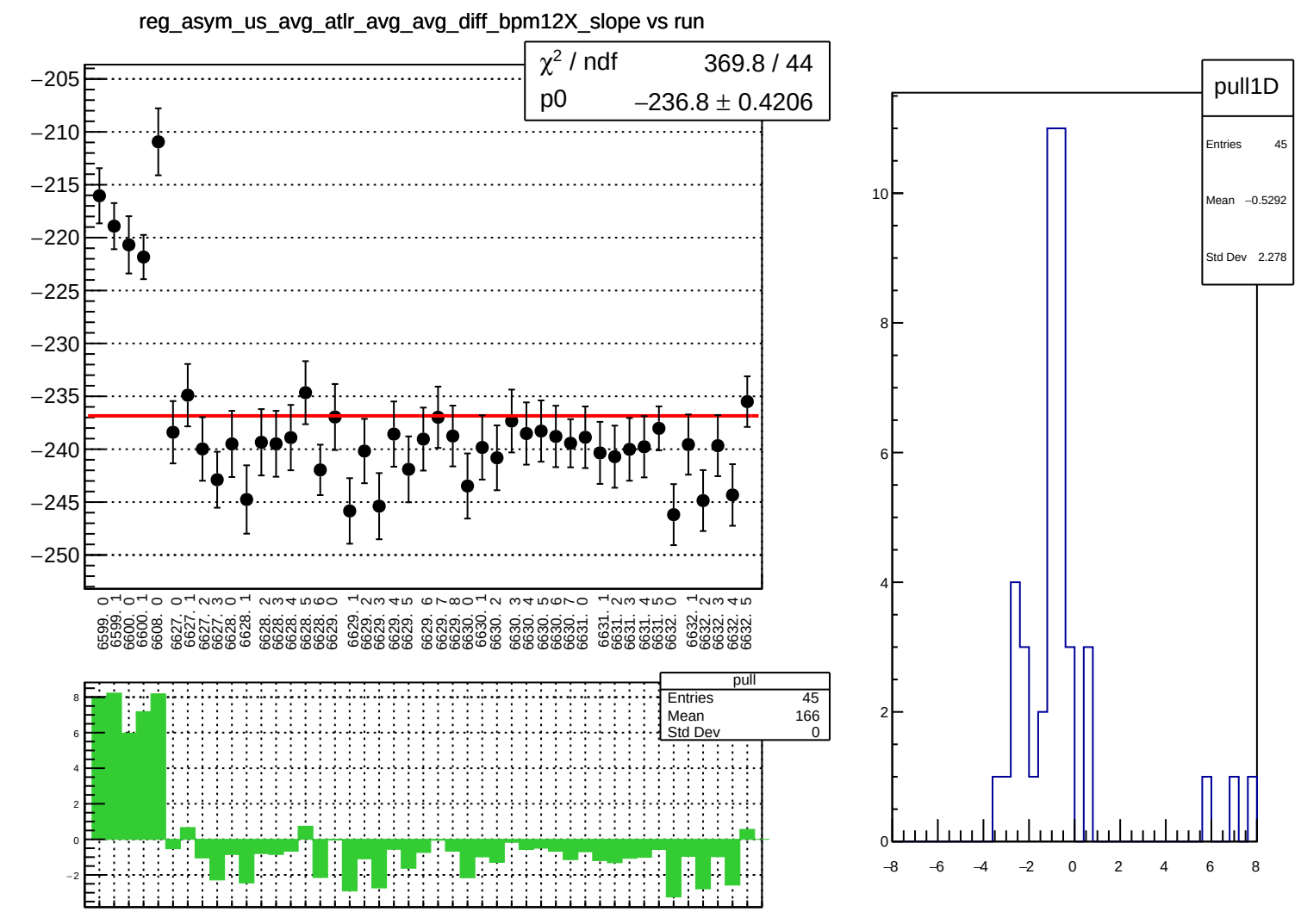

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 11.34 / 44
p0 −385.6 ± 9.938
−250
−300
−350
−400
−450
−500
−550
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −272.7
Std Dev 0
1
0.5
0
−0.5
−1


pull1D
Entries 45
Mean 0.004391
Std Dev 0.502
12
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 5.082 / 44
p0 45.72 ± 6.531
pull
Entries 45
Mean −218.4
Std Dev 0
pull1D
Entries 45
Mean −0.007026
Std Dev 0.336


reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.05 / 44
p0 419.8 ± 10.25
550
500
450
400
350
300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −951.9
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.001211
Std Dev 0.4956
14
12
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 5.818 / 44
p0 79.5 ± 7.802
pull
Entries 45
Mean −89.41
Std Dev 0
pull1D
Entries 45
Mean 0.0143
Std Dev 0.3593


reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 369.8 / 44
p0 −236.8 ± 0.4206
−205
−210
−215
−220
−225
−230
−235
−240
−245
−250
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
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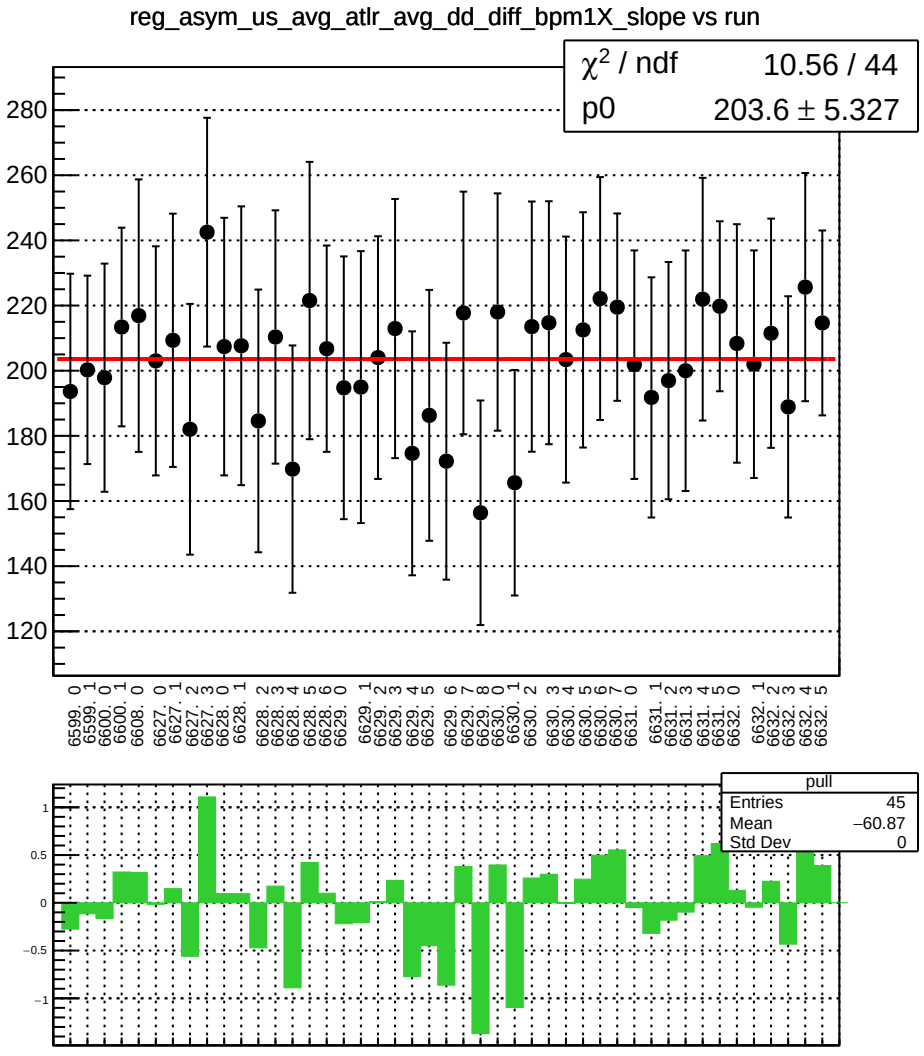
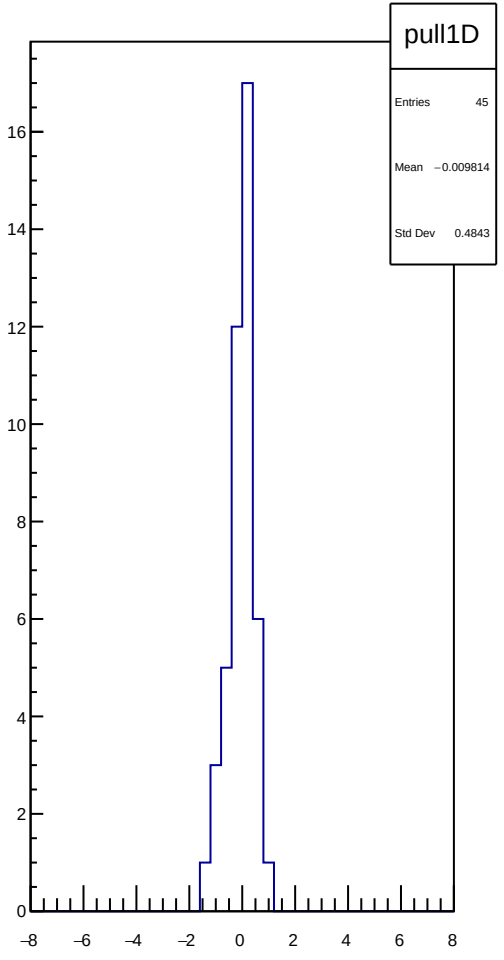
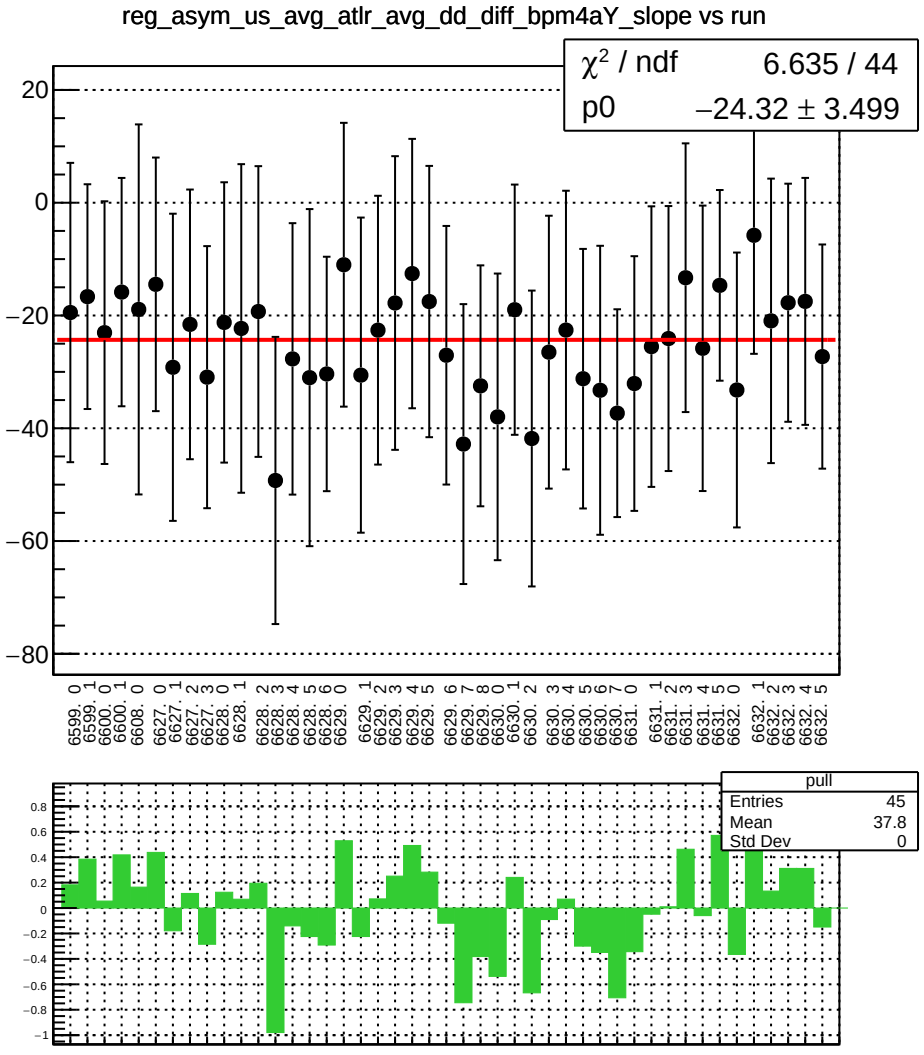
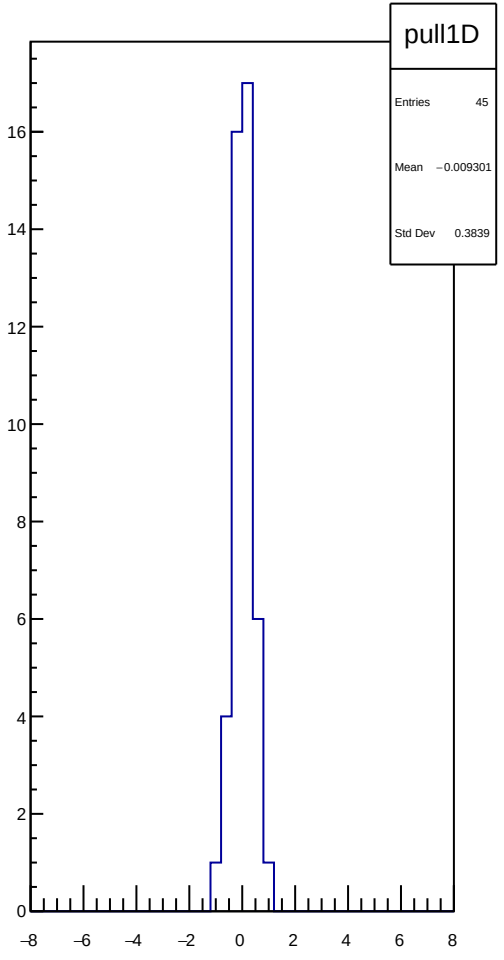
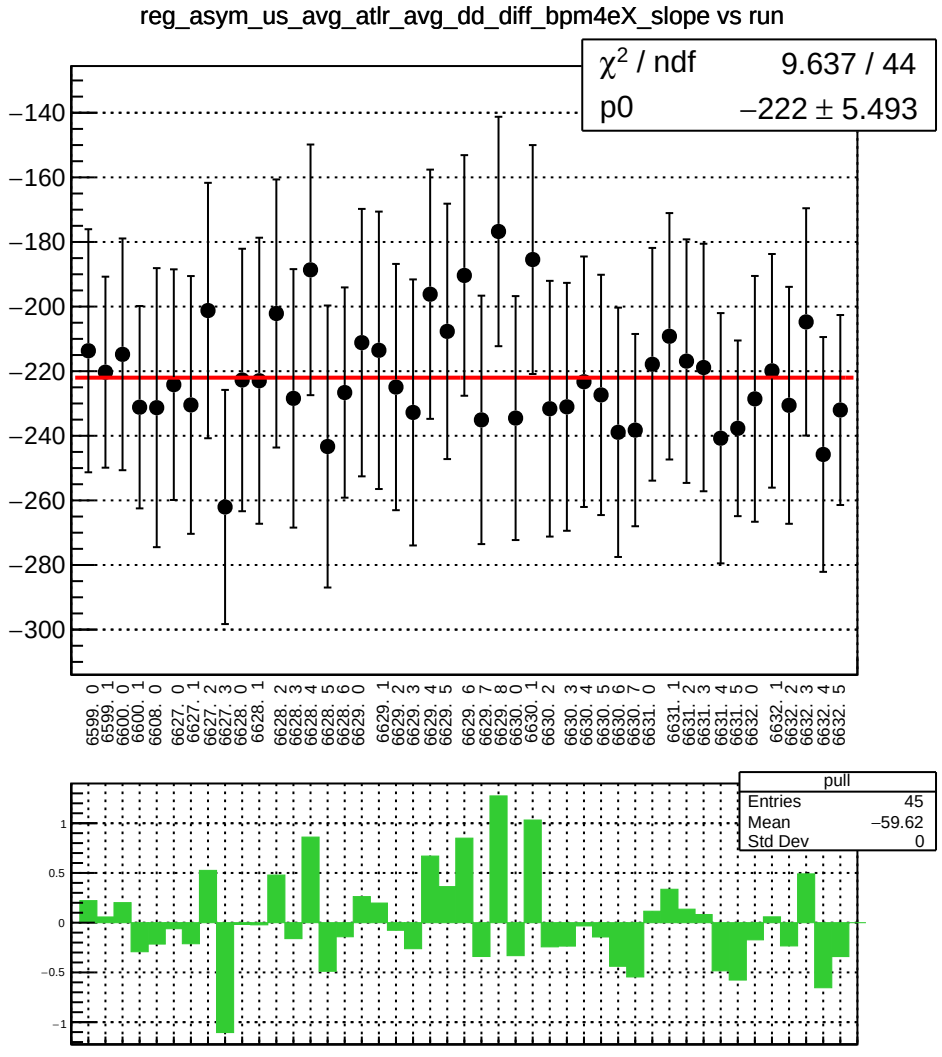
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 166
Std Dev 0
8
6
4
2
0
−2
pull1D
Entries 45
Mean −0.5292
Std Dev 2.278
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

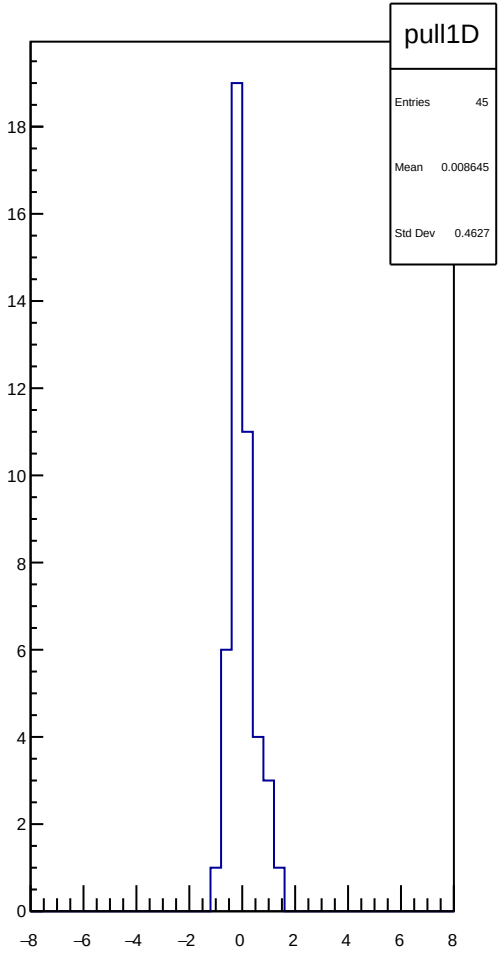

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 10.56 / 44
p0 203.6 ± 5.327
pull
Entries 45
Mean −60.87
Std Dev 0

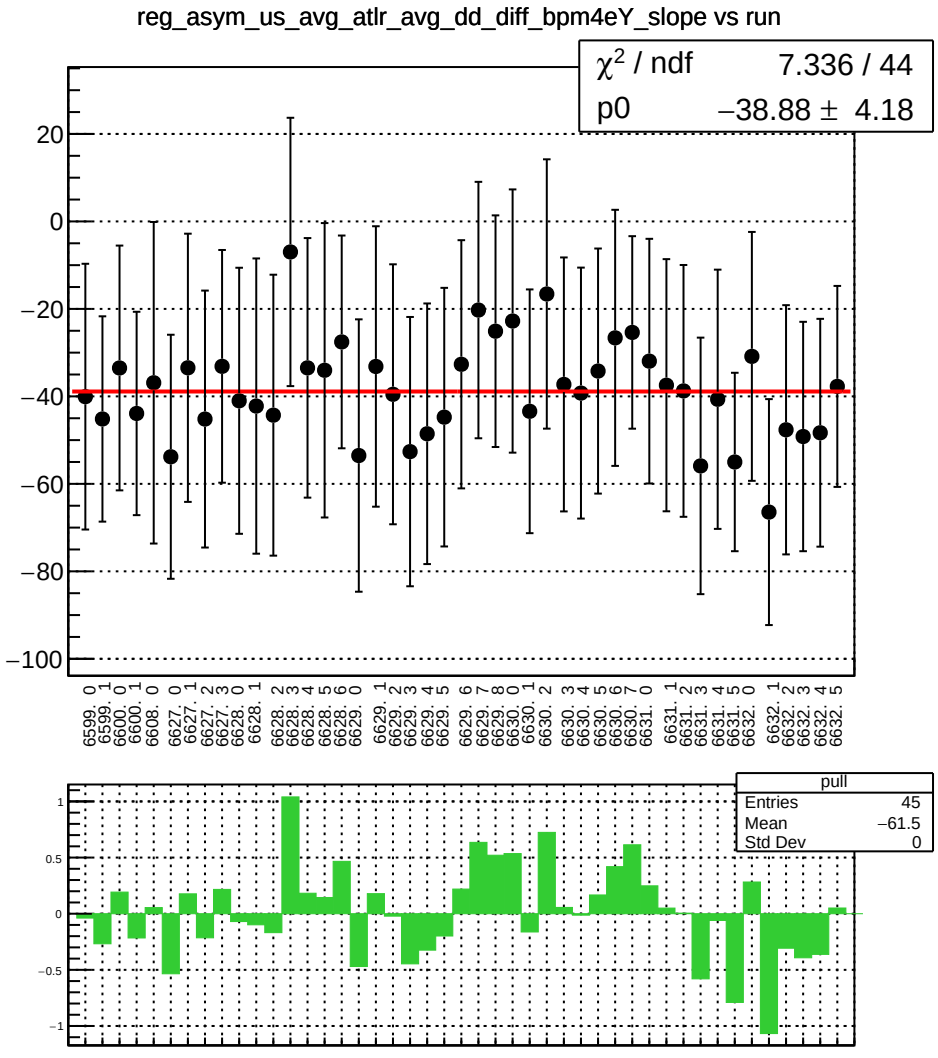

pull1D
Entries 45
Mean −0.009814
Std Dev 0.4843

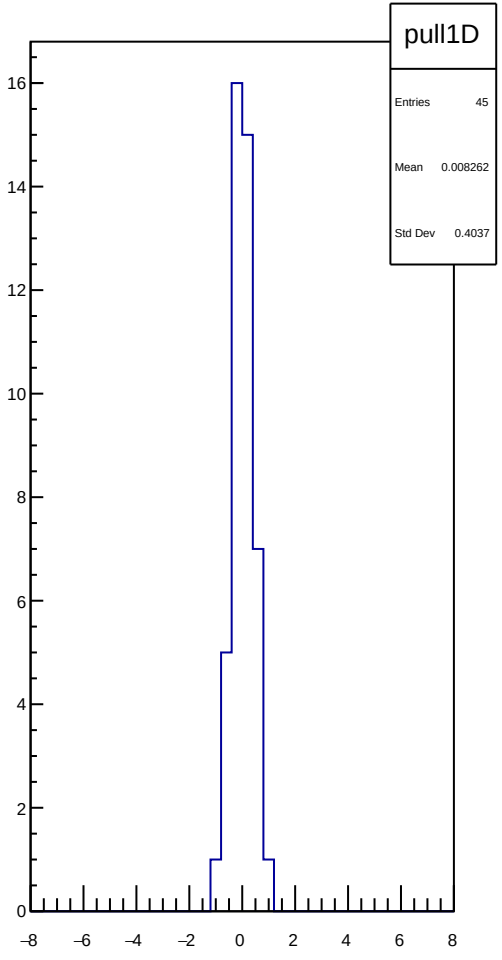

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.635 / 44
p0 −24.32 ± 3.499
pull
Entries 45
Mean 37.8
Std Dev 0

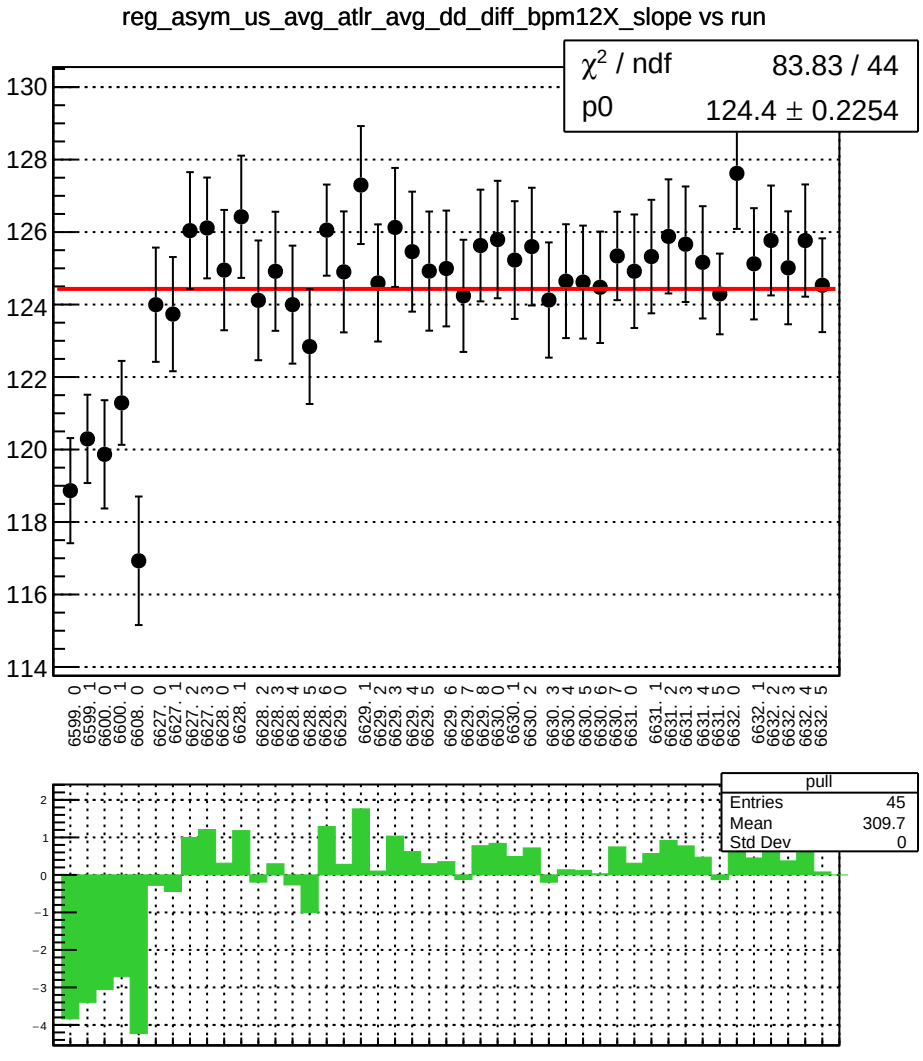

pull1D
Entries 45
Mean −0.009301
Std Dev 0.3839

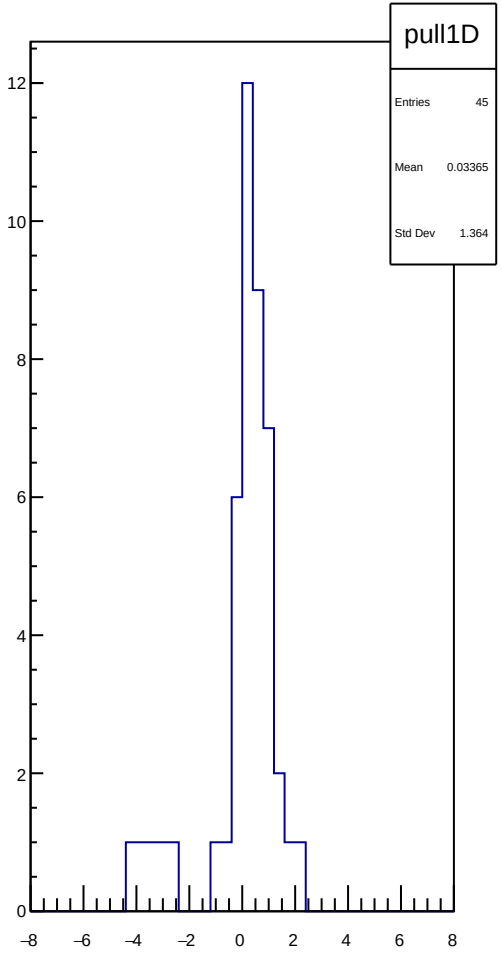

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.637 / 44
p0 −222 ± 5.493
−140
−160
−180
−200
−220
−240
−260
−280
−300
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −59.62
Std Dev 0
1
0.5
0
−0.5
−1

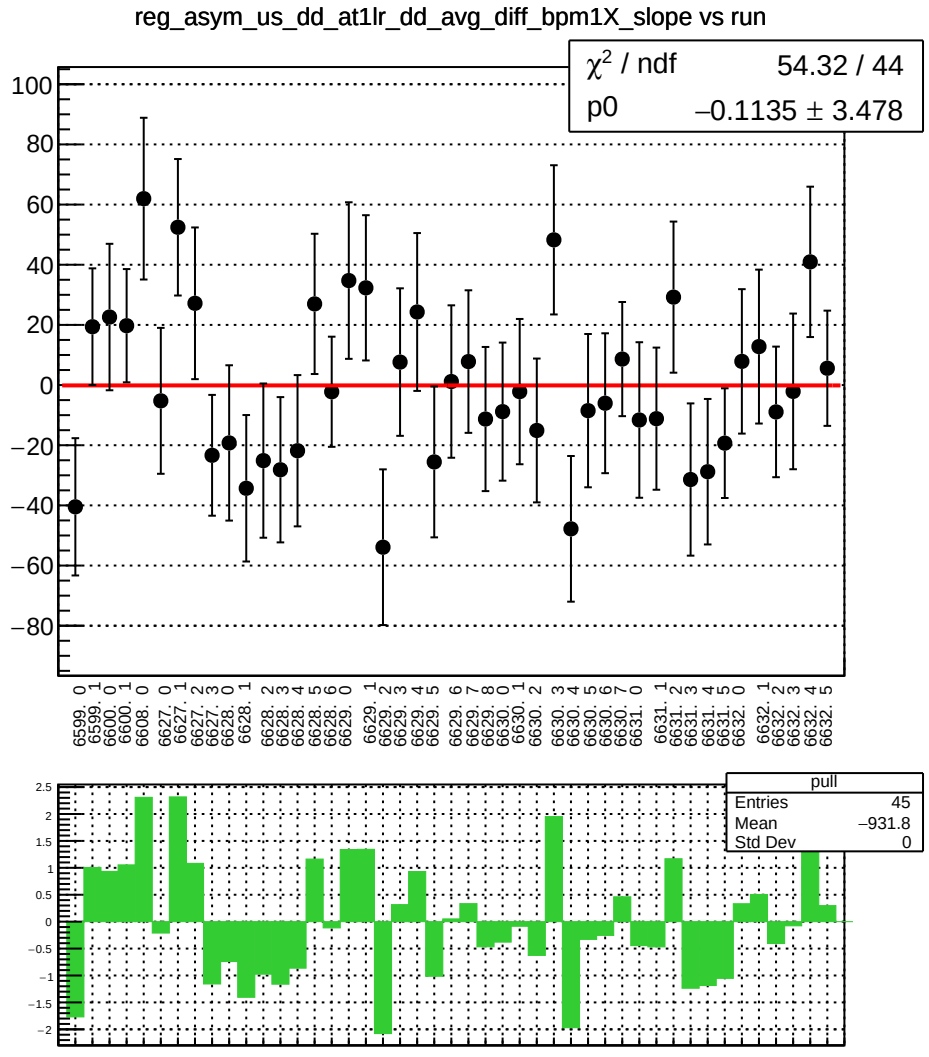

pull1D
Entries 45
Mean 0.008645
Std Dev 0.4627
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

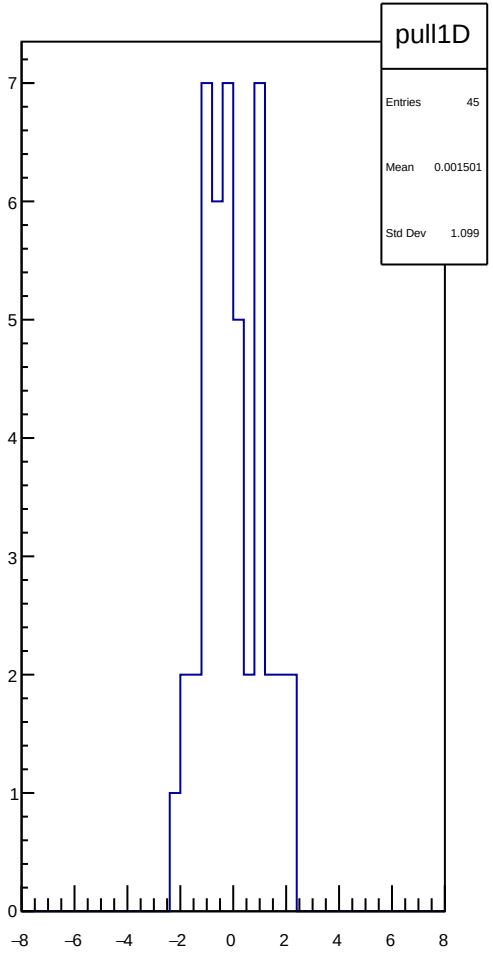

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.336 / 44
p0 −38.88 ± 4.18
pull
Entries 45
Mean −61.5
Std Dev 0

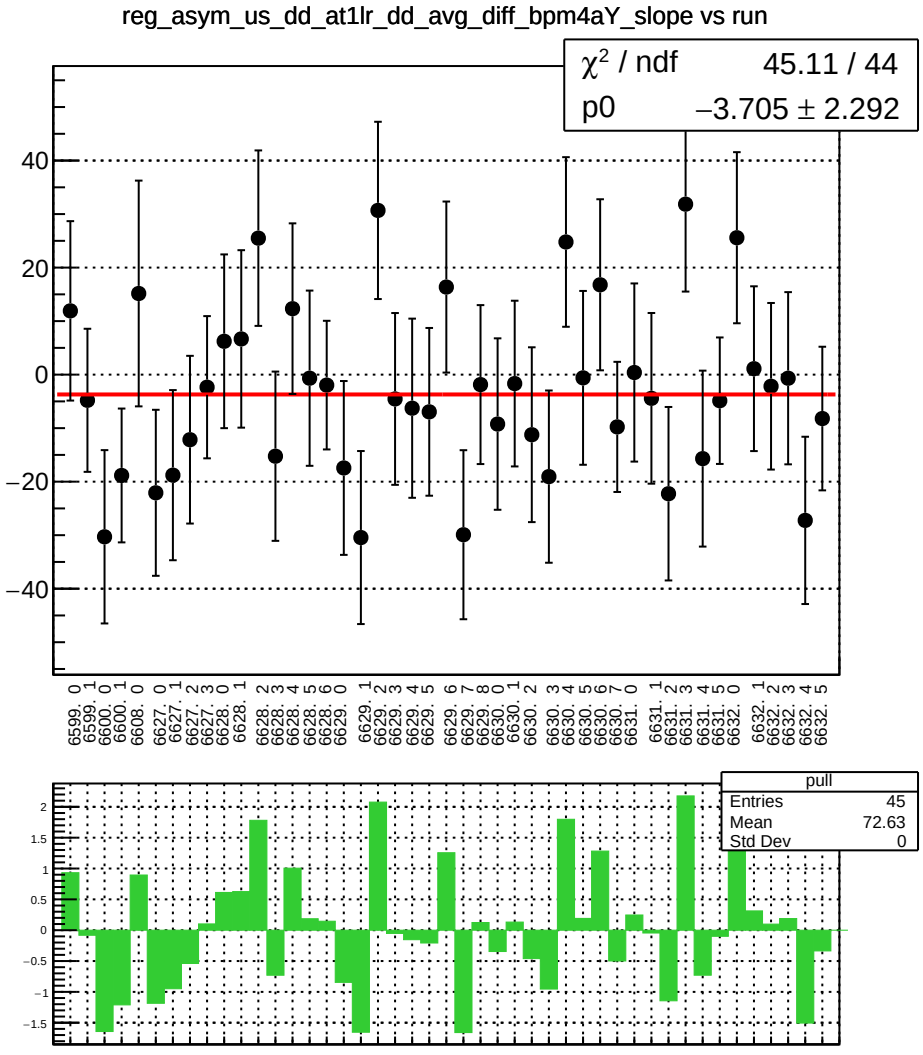

pull1D
Entries 45
Mean 0.008262
Std Dev 0.4037

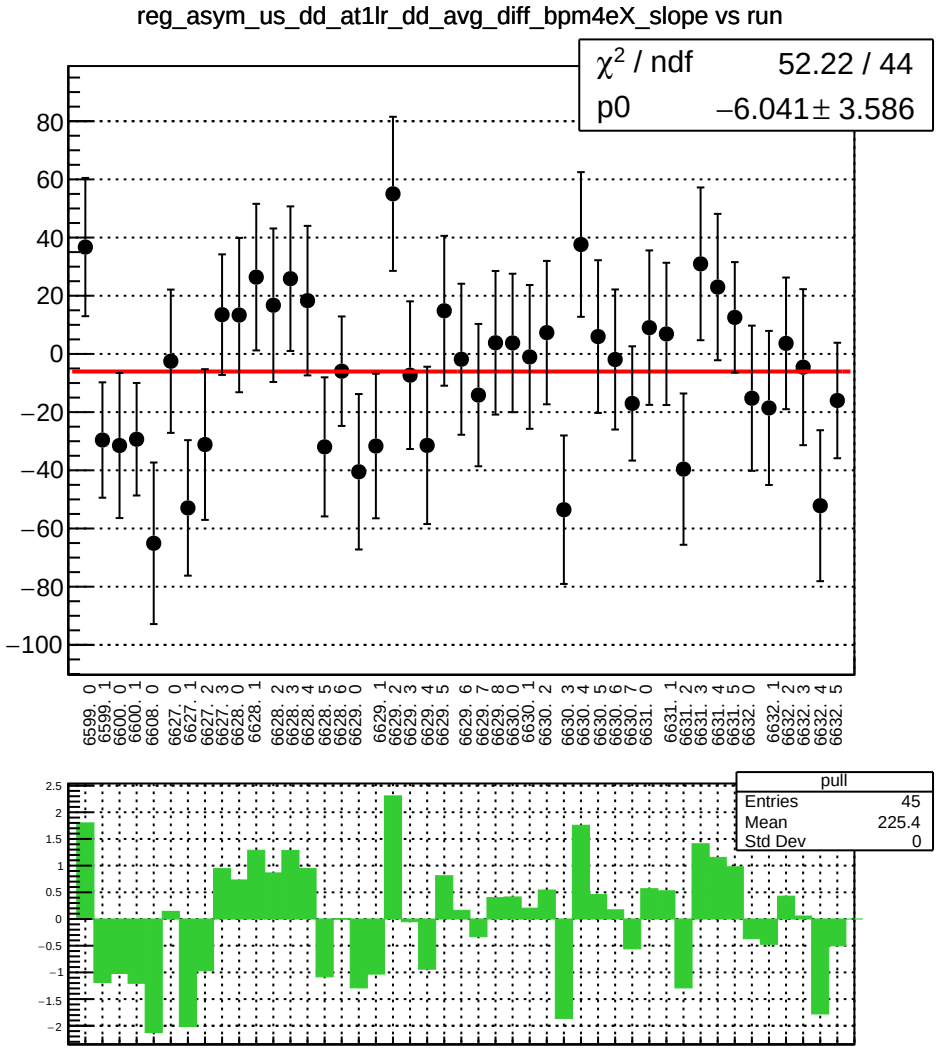

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 83.83 / 44
p0 124.4 ± 0.2254
pull
Entries 45
Mean 309.7
Std Dev 0

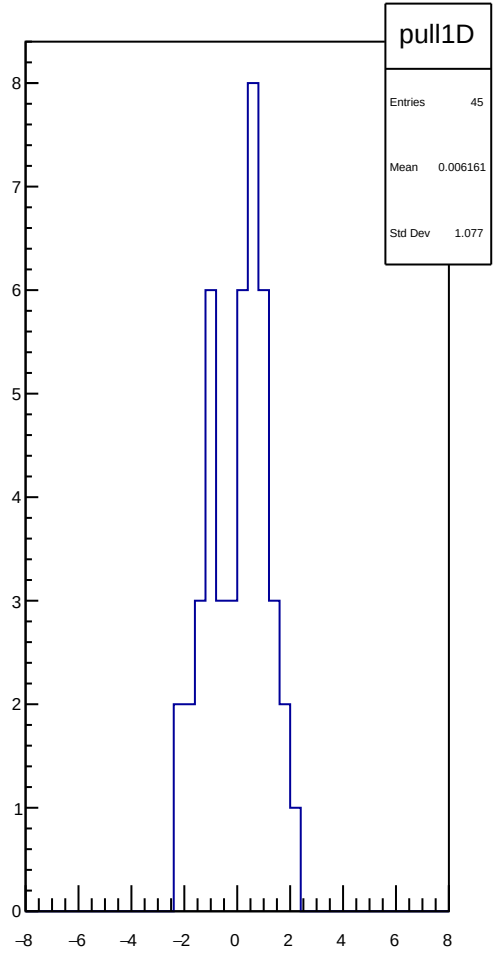

pull1D
Entries 45
Mean 0.03365
Std Dev 1.364

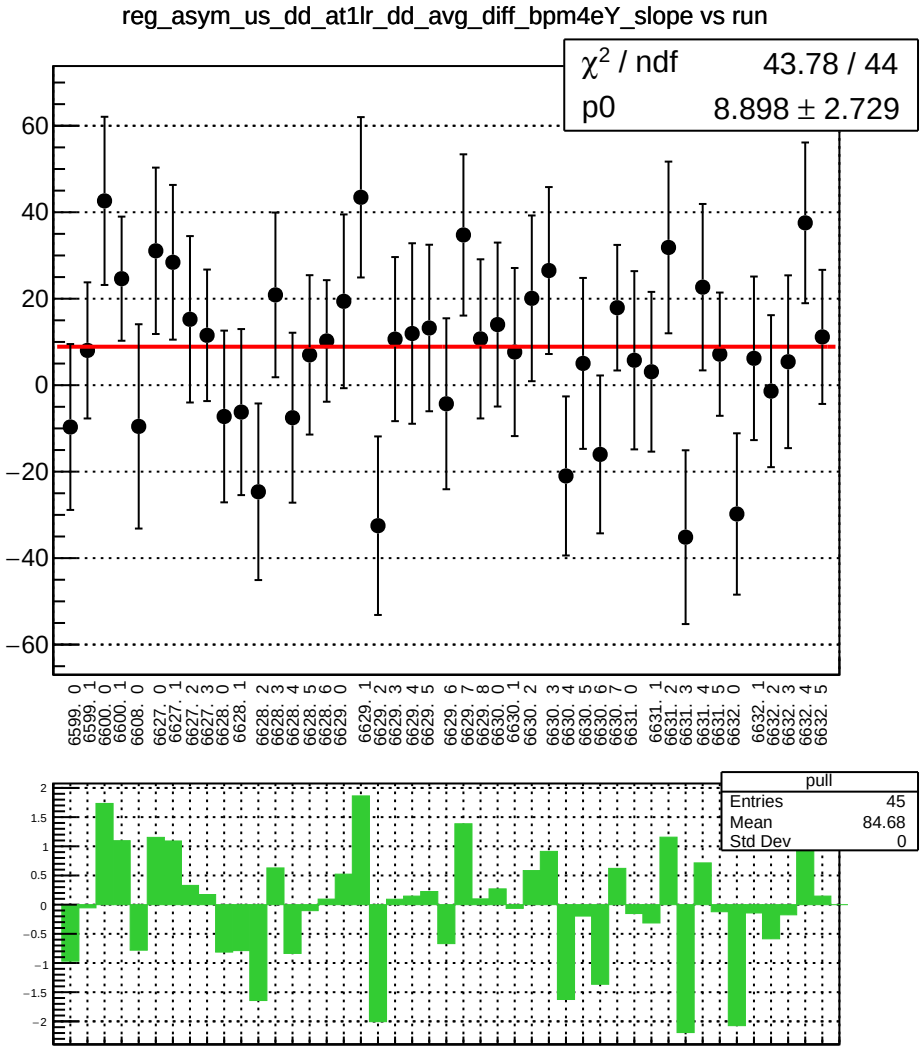

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 54.32 / 44
p0 −0.1135 ± 3.478
pull
Entries 45
Mean −931.8
Std Dev 0

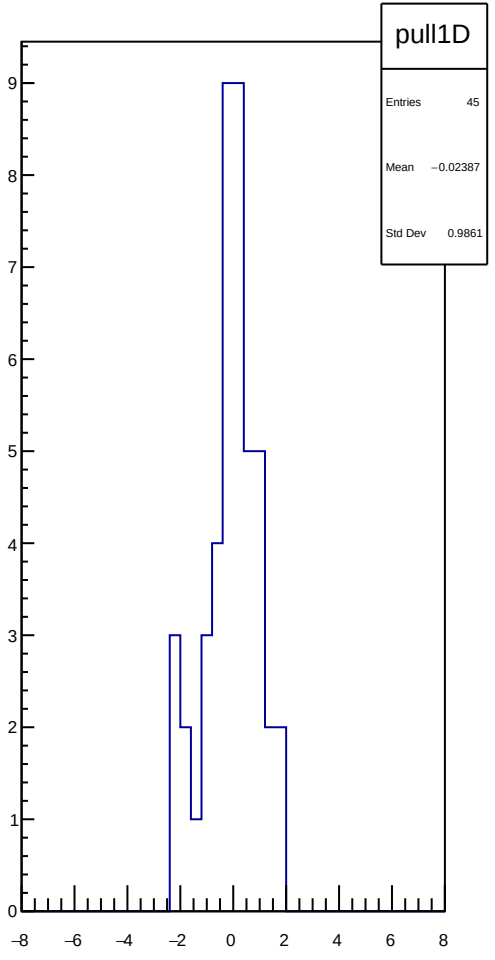

pull1D
Entries 45
Mean 0.001501
Std Dev 1.099

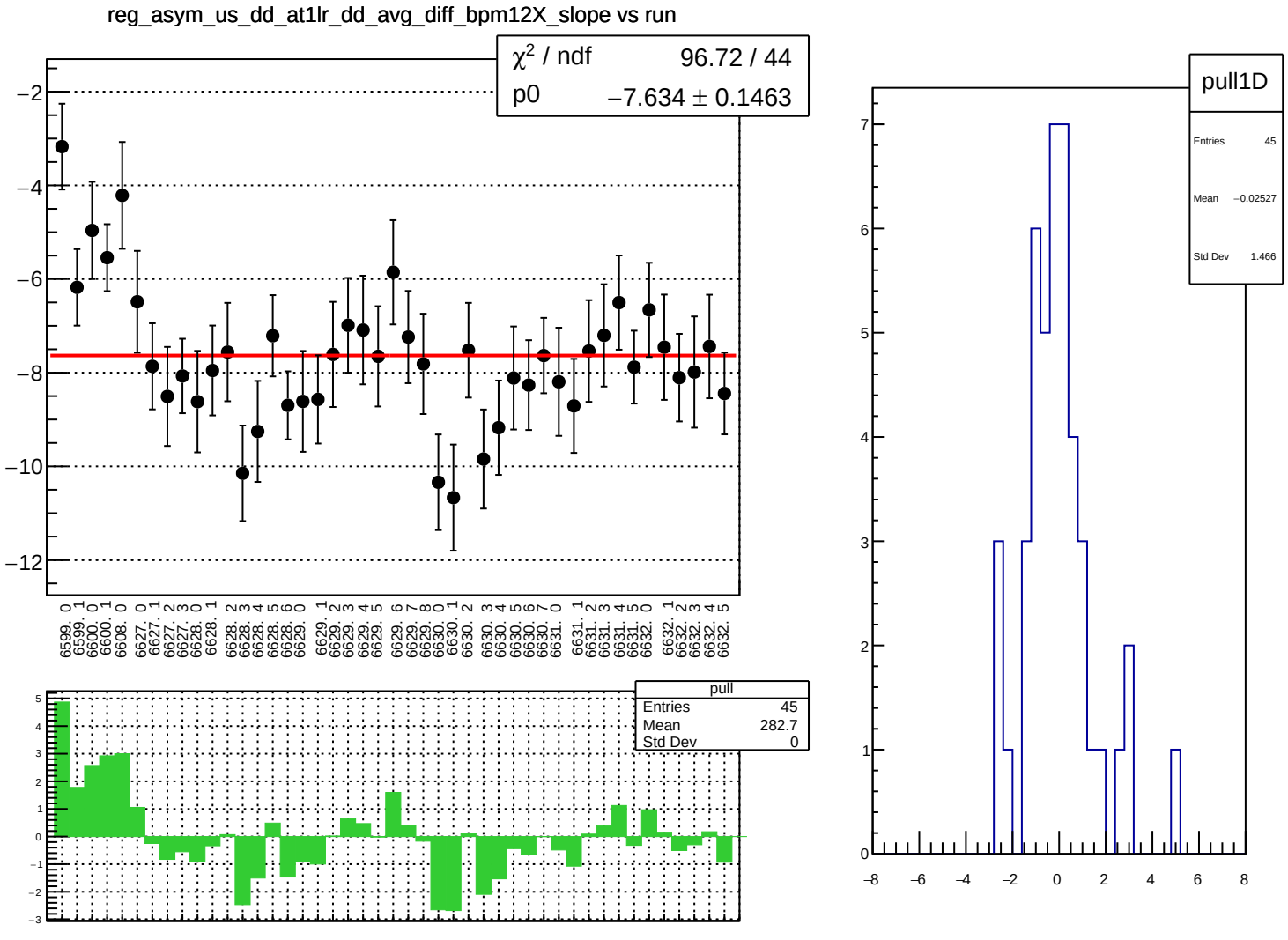

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 45.11 / 44
p0 −3.705 ± 2.292
pull
Entries 45
Mean 72.63
Std Dev 0
pull1D
Entries 45
Mean 0.0216
Std Dev 1.001

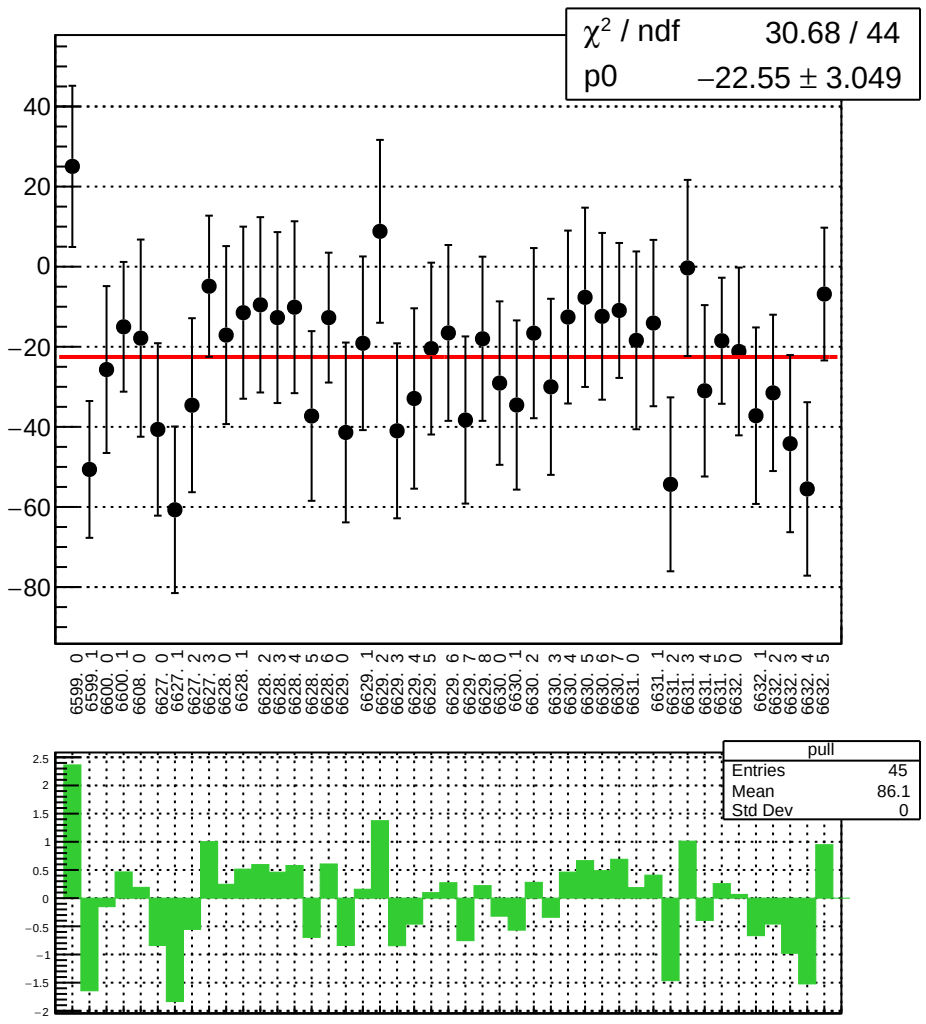

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 52.22 / 44
p0 −6.041 ± 3.586
pull
Entries 45
Mean 225.4
Std Dev 0

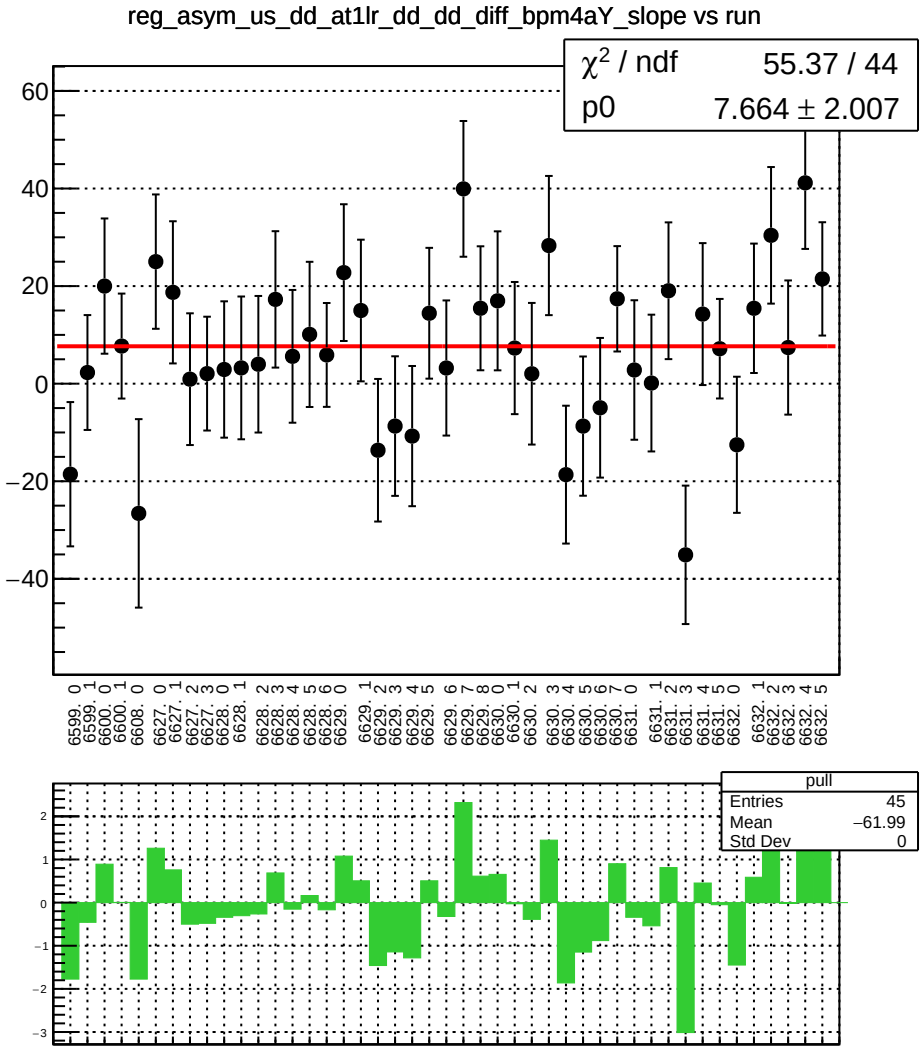

pull1D
Entries 45
Mean 0.006161
Std Dev 1.077

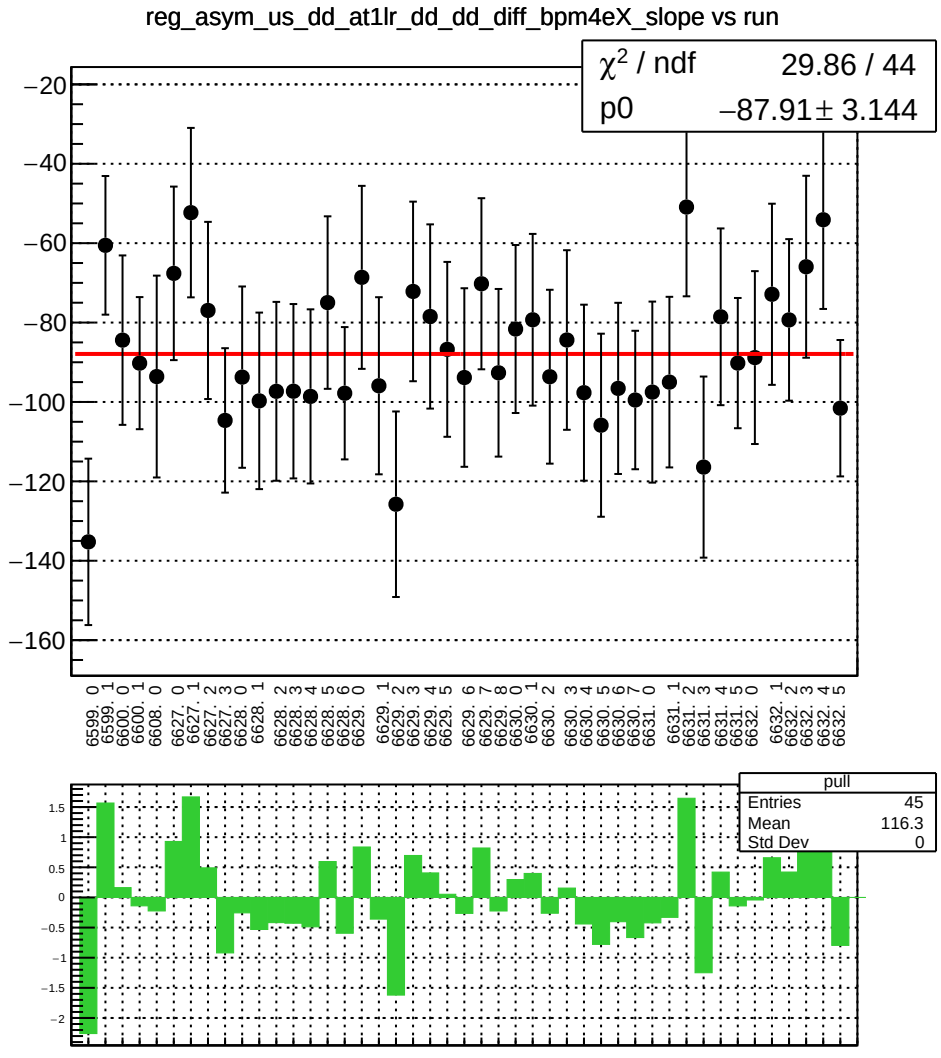

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 43.78 / 44
p0 8.898 ± 2.729
pull
Entries 45
Mean 84.68
Std Dev 0

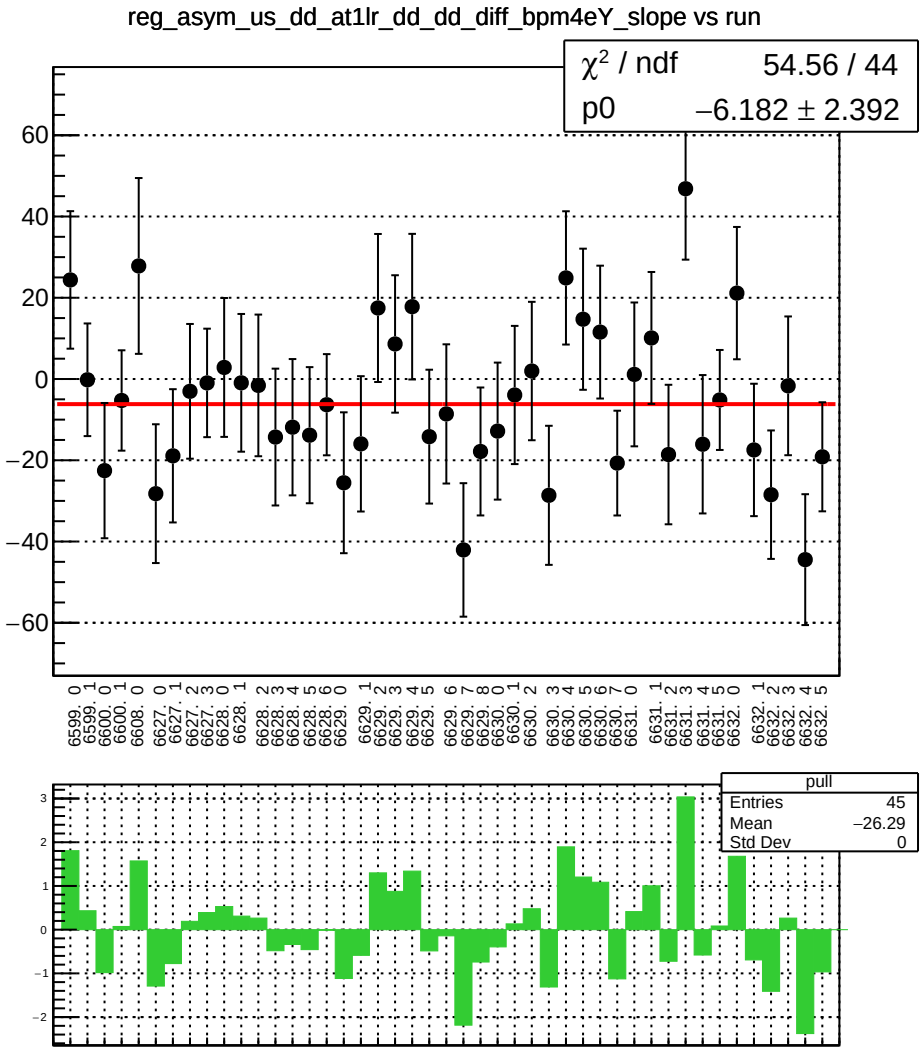

pull1D
Entries 45
Mean −0.02387
Std Dev 0.9861

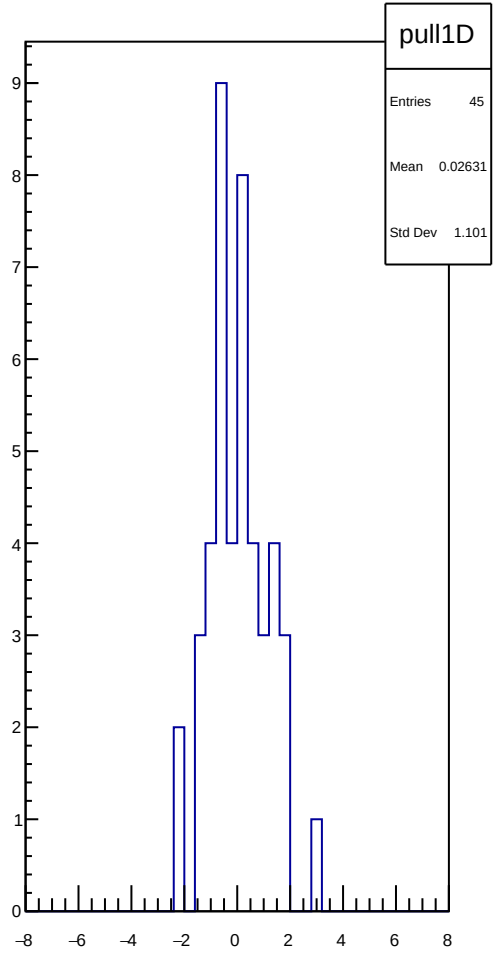

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 96.72 / 44
p0 −7.634 ± 0.1463
pull
Entries 45
Mean 282.7
Std Dev 0
pull1D
Entries 45
Mean −0.02527
Std Dev 1.466

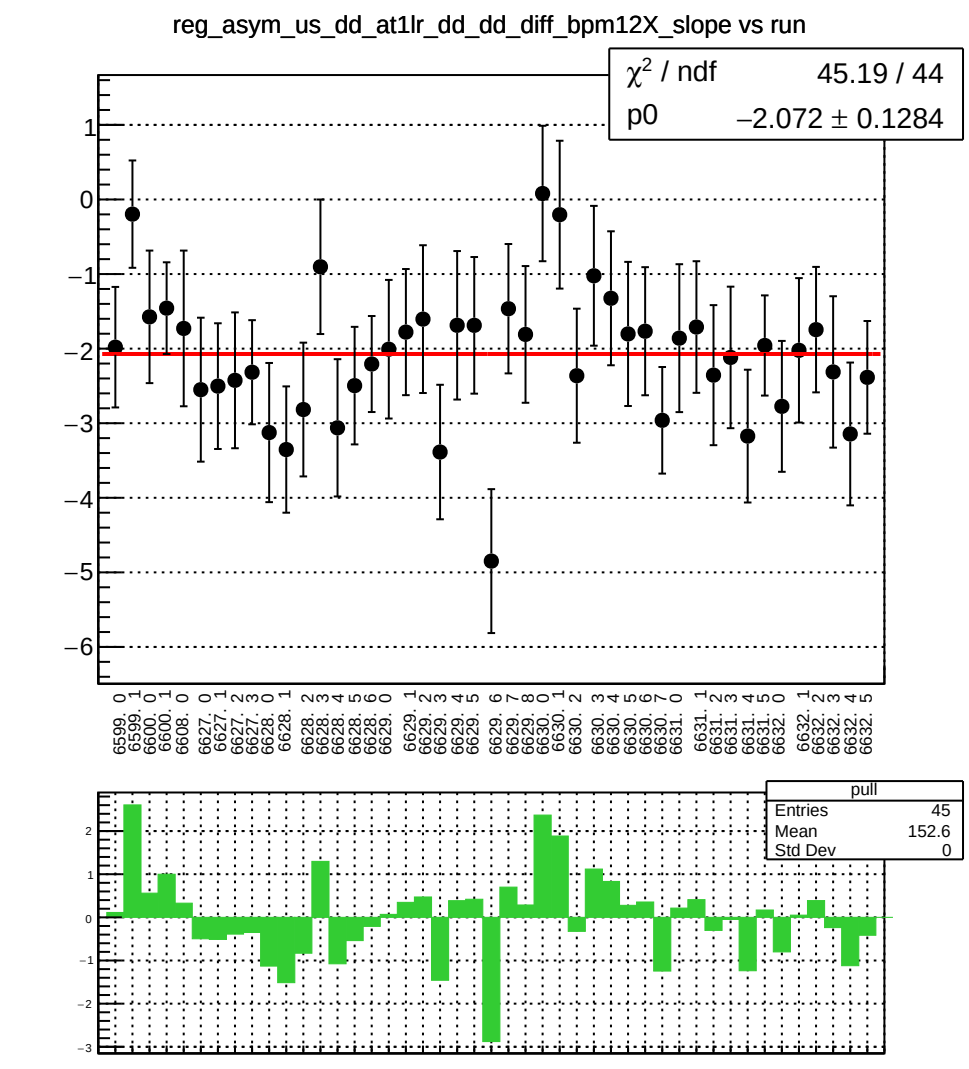

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 30.68 / 44
p0 −22.55 ± 3.049
pull
Entries 45
Mean 86.1
Std Dev 0
pull1D
Entries 45
Mean −0.01588
Std Dev 0.8256

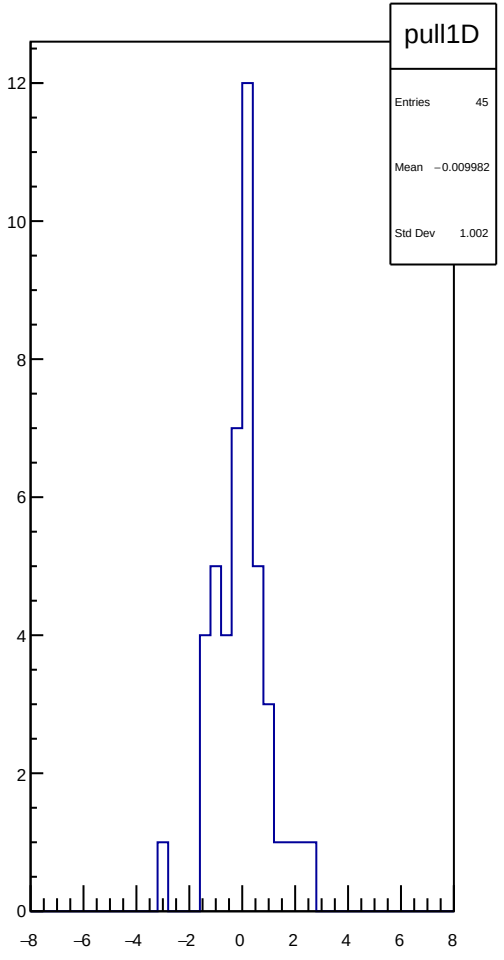

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 55.37 / 44
p0 7.664 ± 2.007
pull
Entries 45
Mean −61.99
Std Dev 0
pull1D
Entries 45
Mean −0.02649
Std Dev 1.109

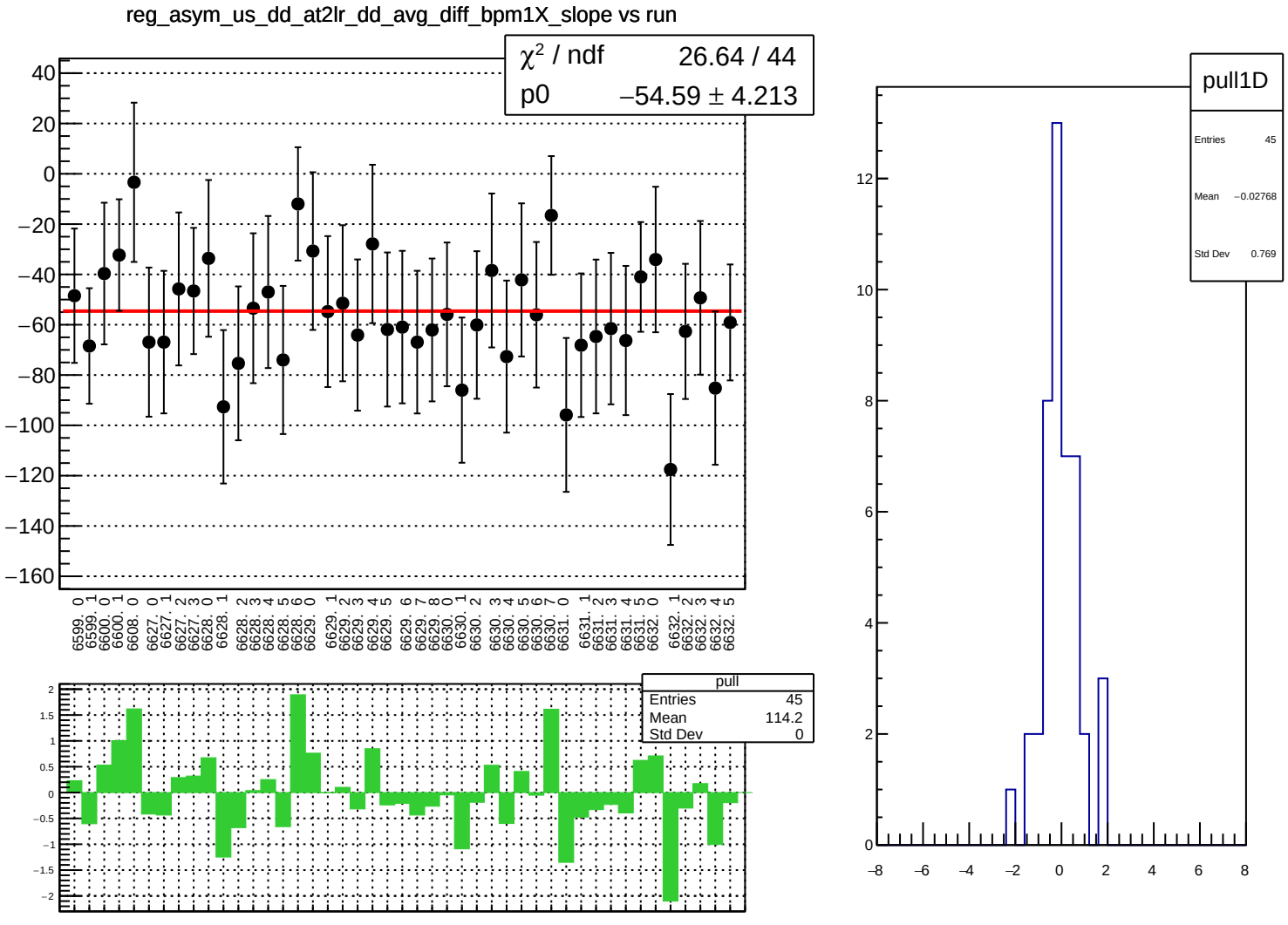

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 29.86 / 44
p0 −87.91 ± 3.144
pull
Entries 45
Mean 116.3
Std Dev 0
pull1D
Entries 45
Mean 0.009614
Std Dev 0.8145

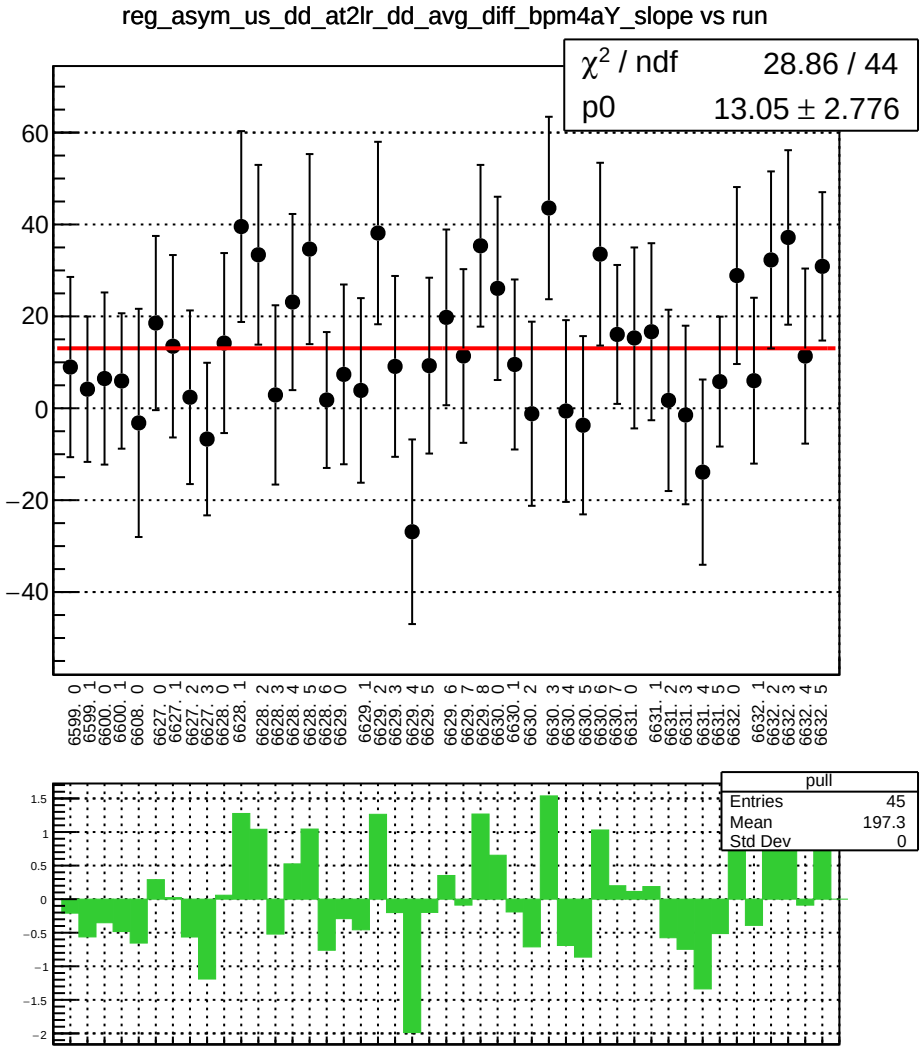

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 54.56 / 44
p0 −6.182 ± 2.392
pull
Entries 45
Mean −26.29
Std Dev 0

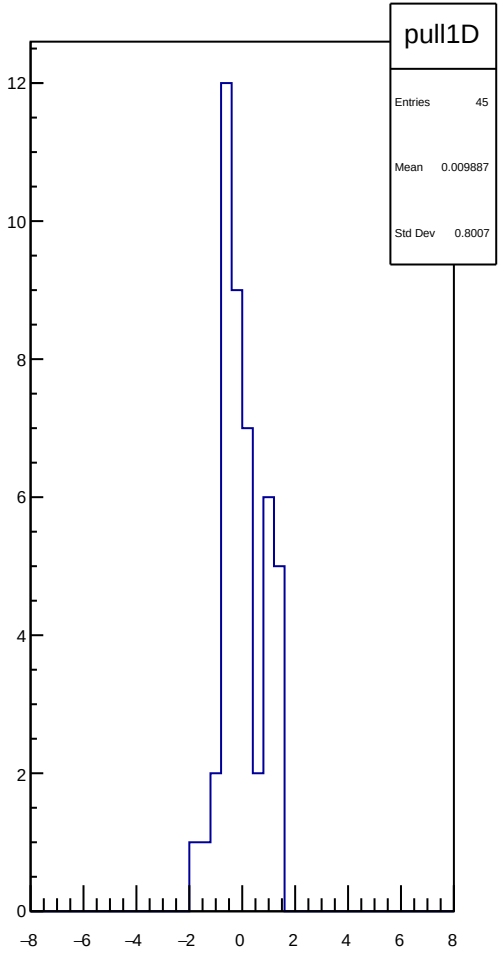

pull1D
Entries 45
Mean 0.02631
Std Dev 1.101

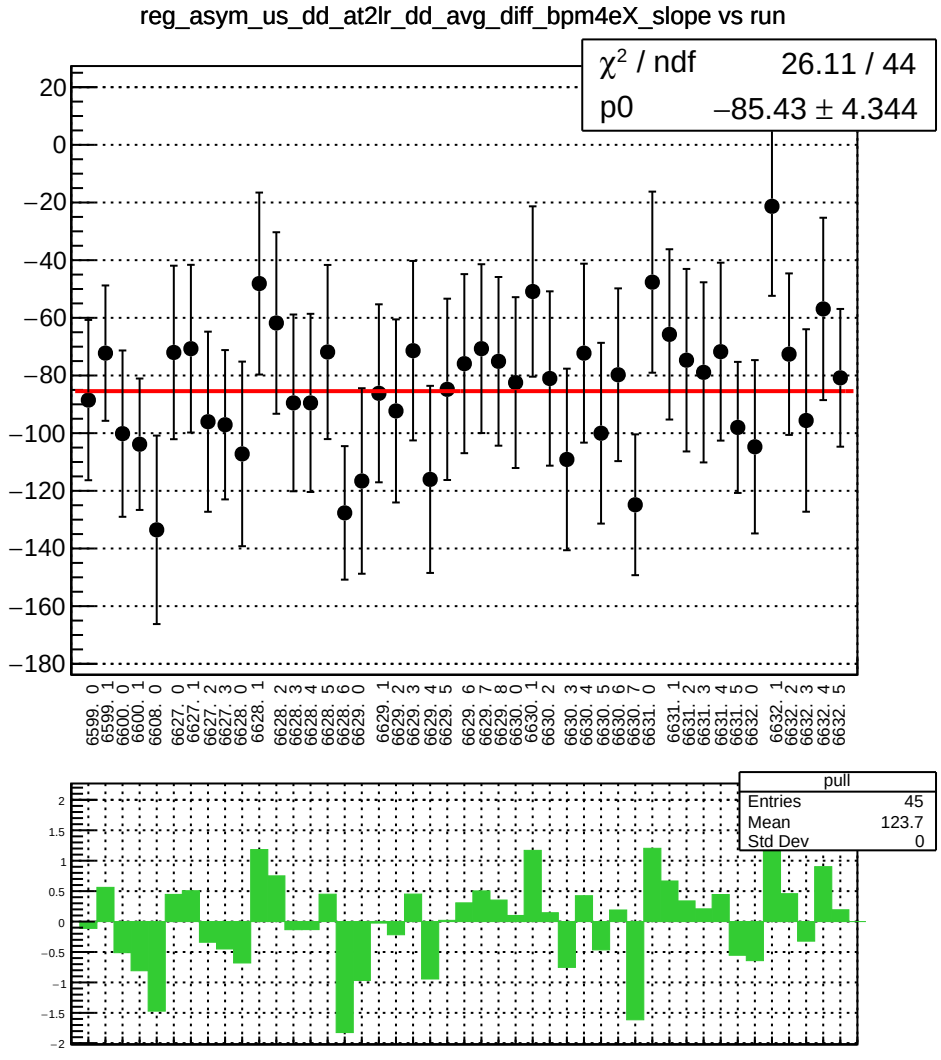

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 45.19 / 44
p0 −2.072 ± 0.1284
pull
Entries 45
Mean 152.6
Std Dev 0

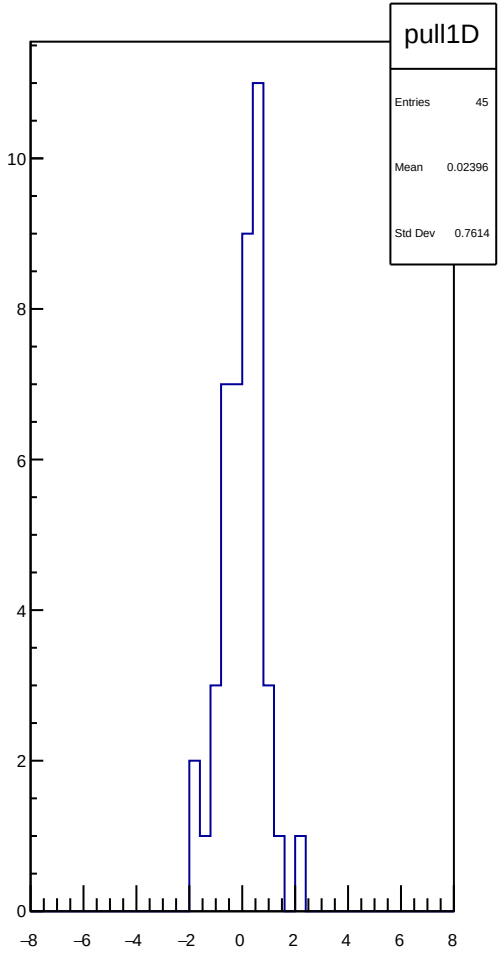

pull1D
Entries 45
Mean −0.009982
Std Dev 1.002

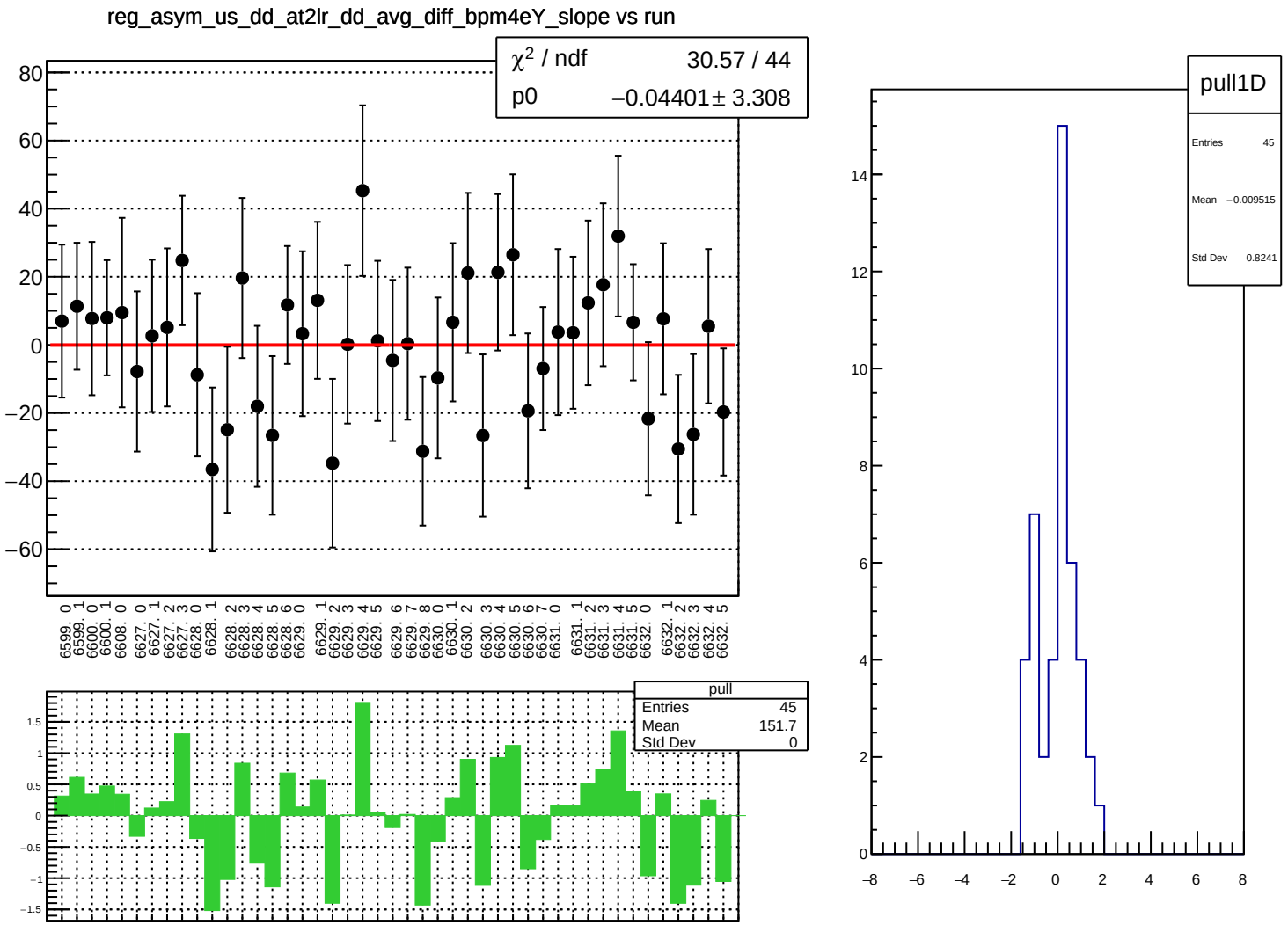

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 26.64 / 44
p0 −54.59 ± 4.213
pull
Entries 45
Mean 114.2
Std Dev 0
pull1D
Entries 45
Mean −0.02768
Std Dev 0.769

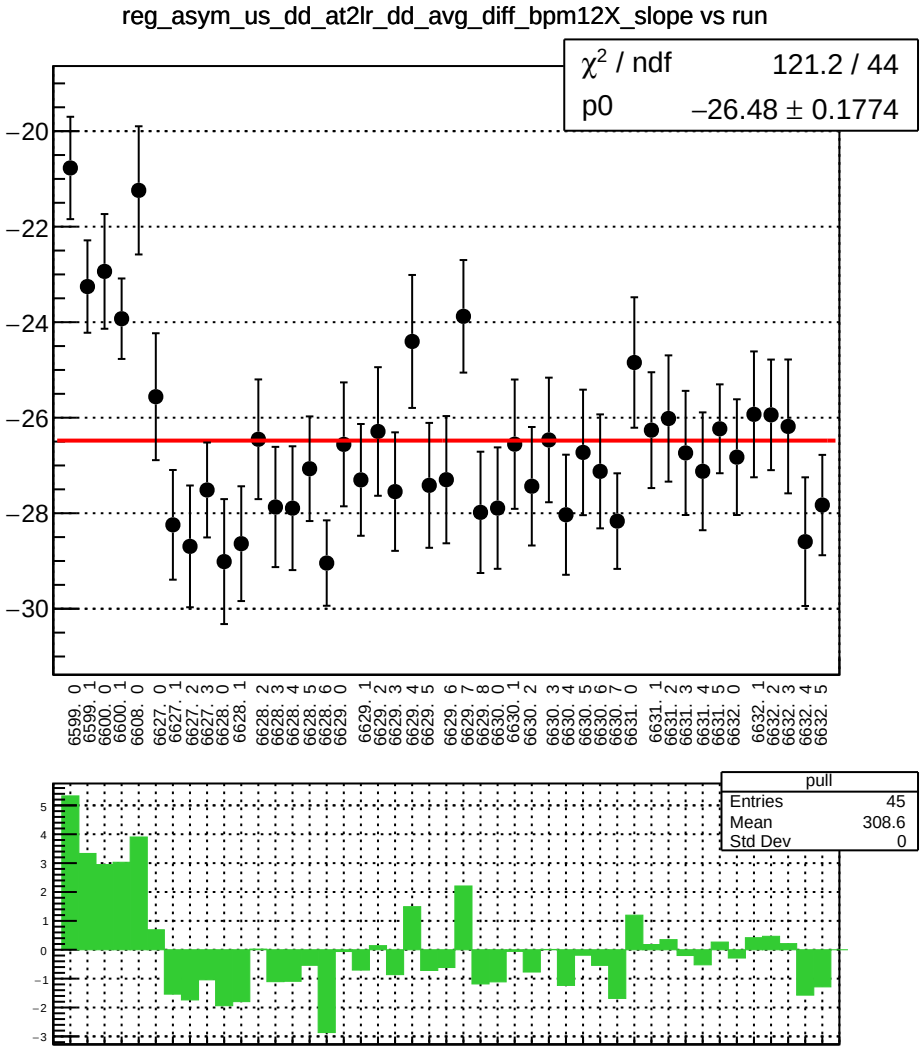

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 28.86 / 44
p0 13.05 ± 2.776
pull
Entries 45
Mean 197.3
Std Dev 0

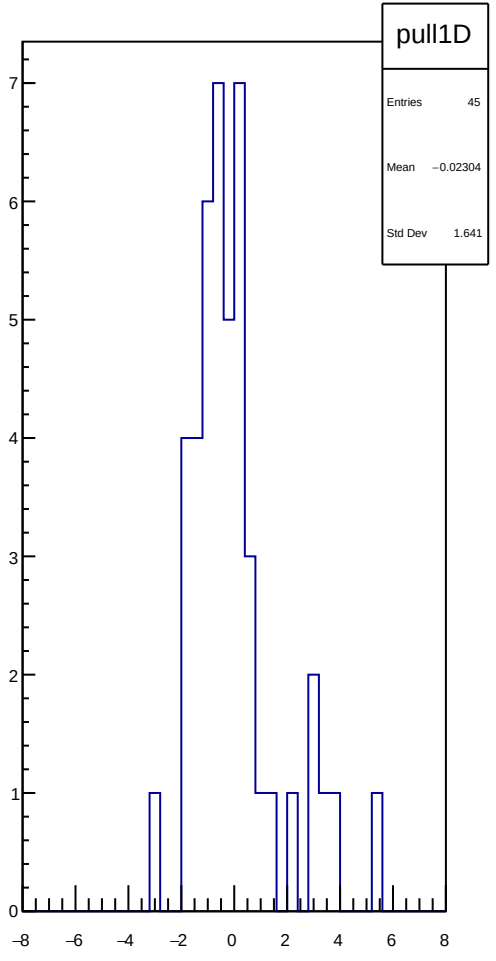

pull1D
Entries 45
Mean 0.009887
Std Dev 0.8007

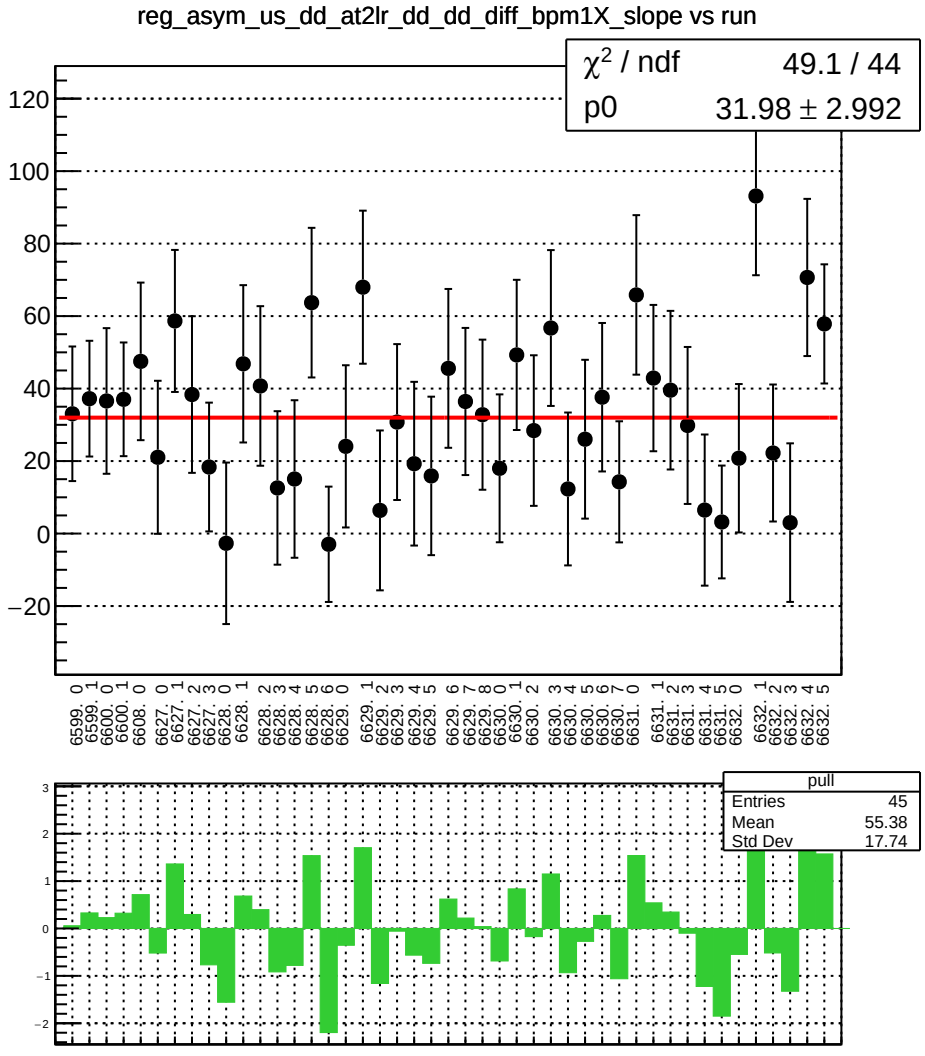

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 26.11 / 44
p0 −85.43 ± 4.344
pull
Entries 45
Mean 123.7
Std Dev 0

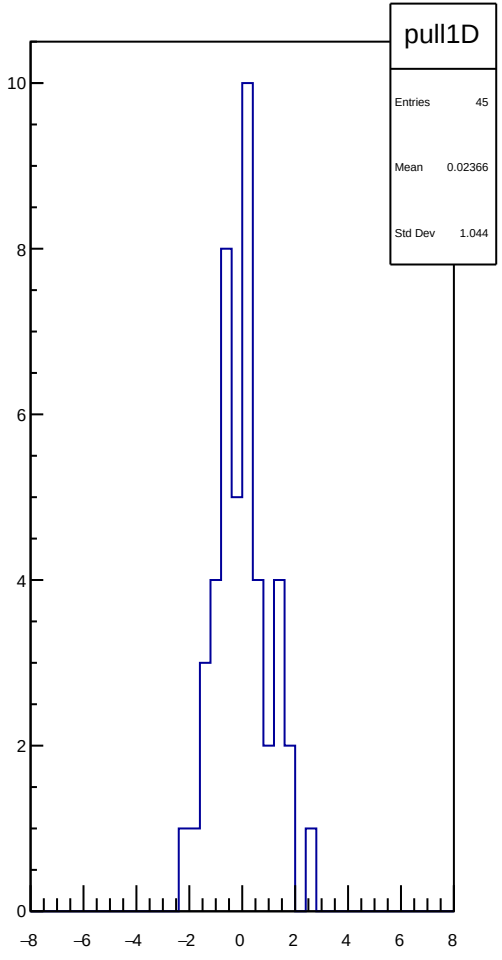

pull1D
Entries 45
Mean 0.02396
Std Dev 0.7614

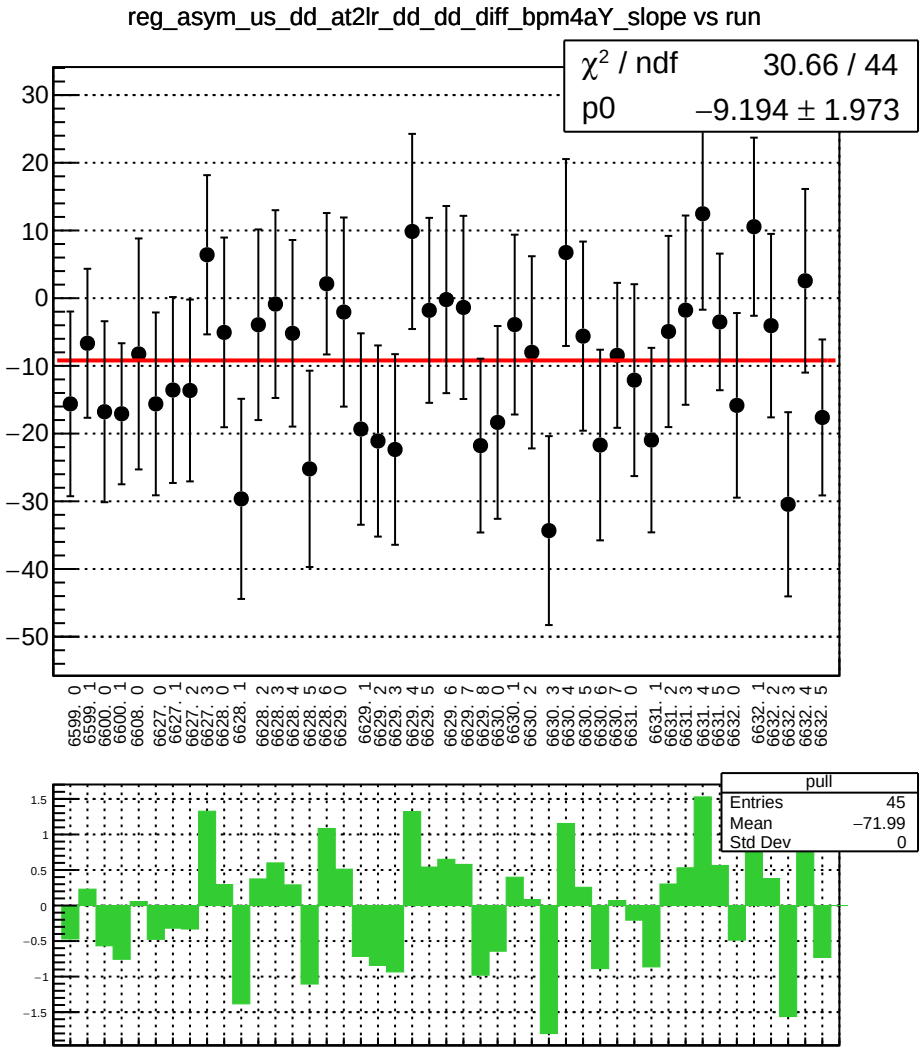

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 30.57 / 44
p0 −0.04401 ± 3.308
pull
Entries 45
Mean 151.7
Std Dev 0
pull1D
Entries 45
Mean −0.009515
Std Dev 0.8241

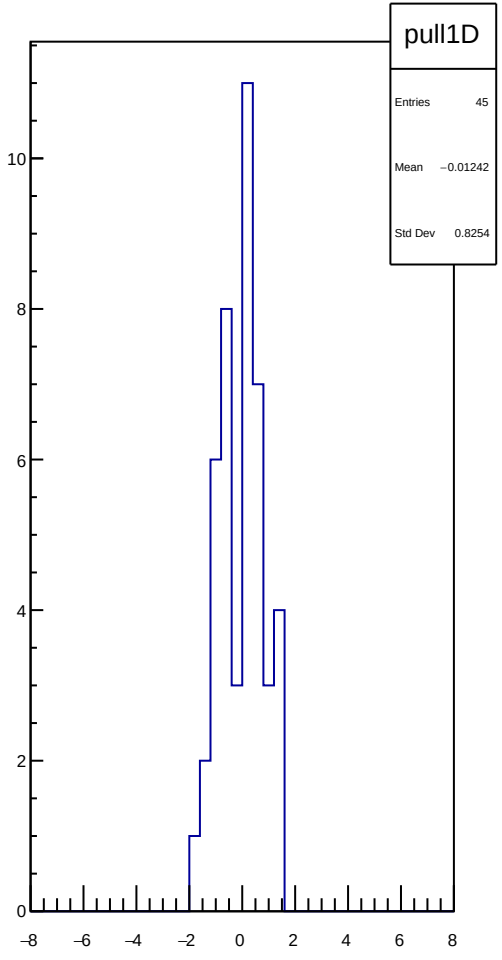

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 121.2 / 44
p0 −26.48 ± 0.1774
pull
Entries 45
Mean 308.6
Std Dev 0

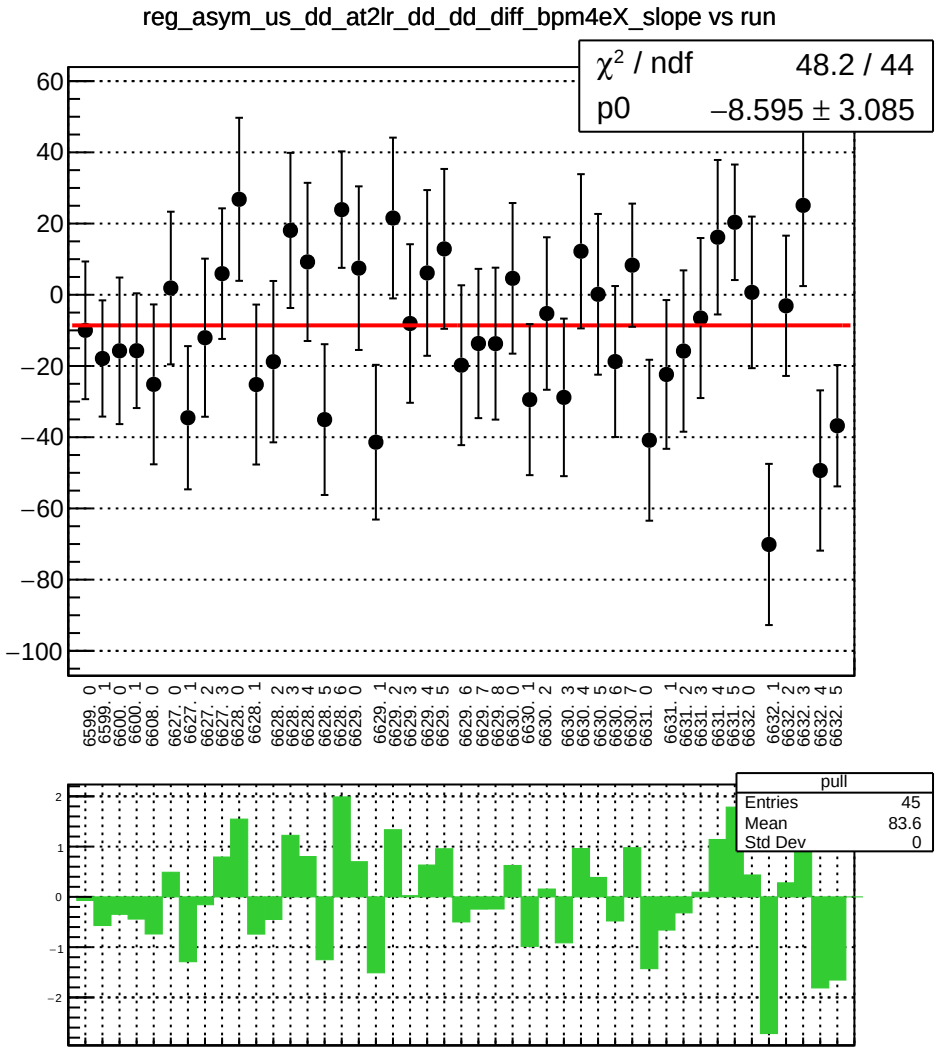

pull1D
Entries 45
Mean −0.02304
Std Dev 1.641

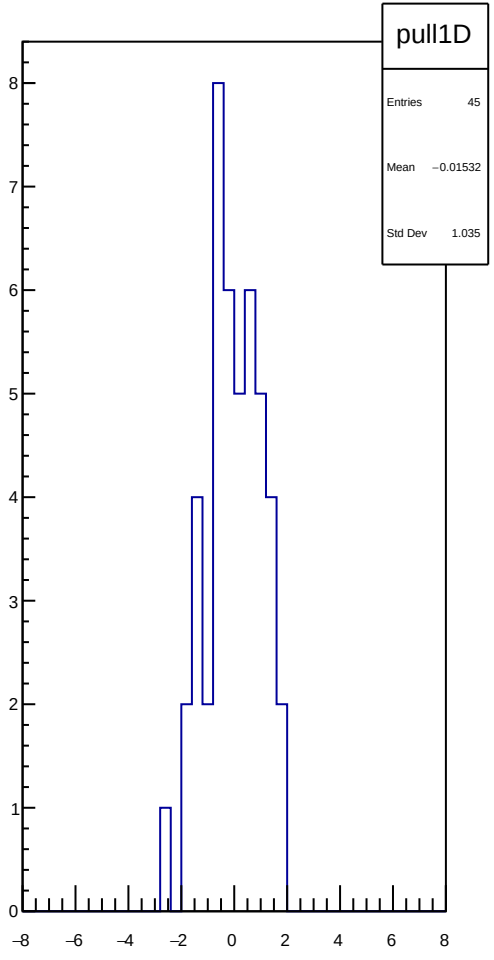

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 49.1 / 44
p0 31.98 ± 2.992
pull
Entries 45
Mean 55.38
Std Dev 17.74

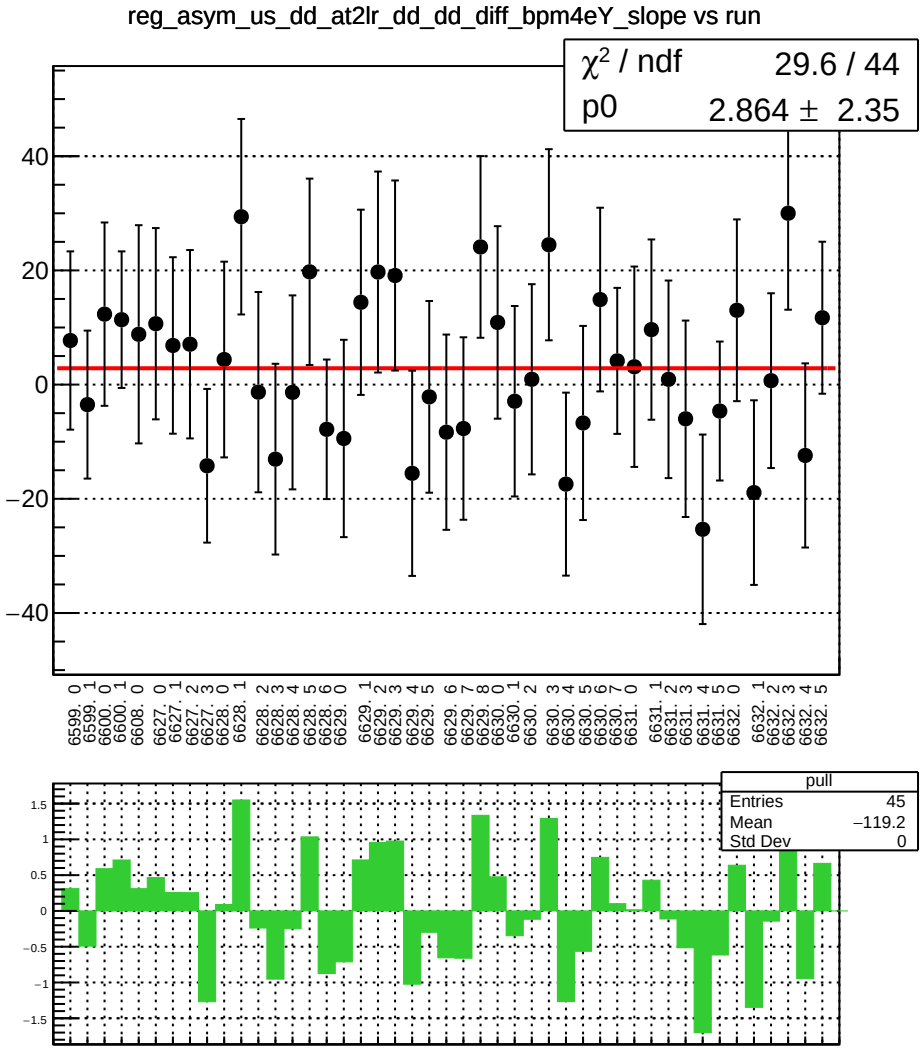

pull1D
Entries 45
Mean 0.02366
Std Dev 1.044

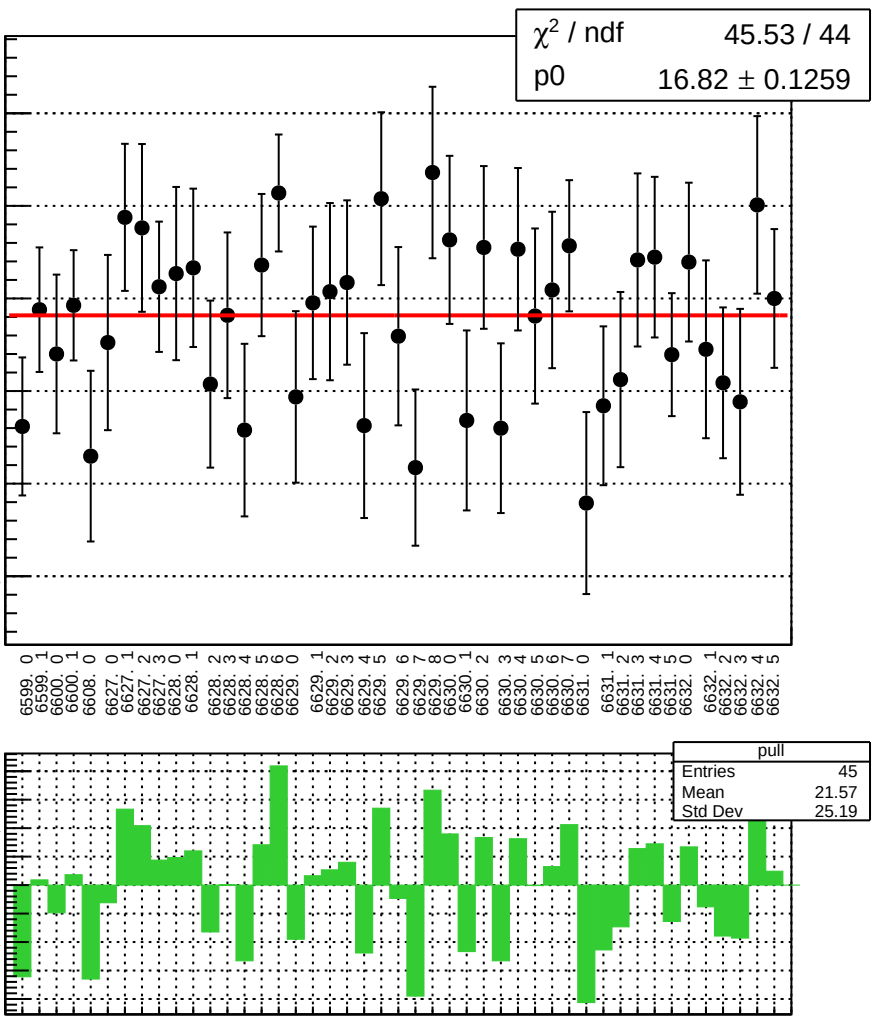

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.66 / 44
p0 −9.194 ± 1.973
pull
Entries 45
Mean −71.99
Std Dev 0

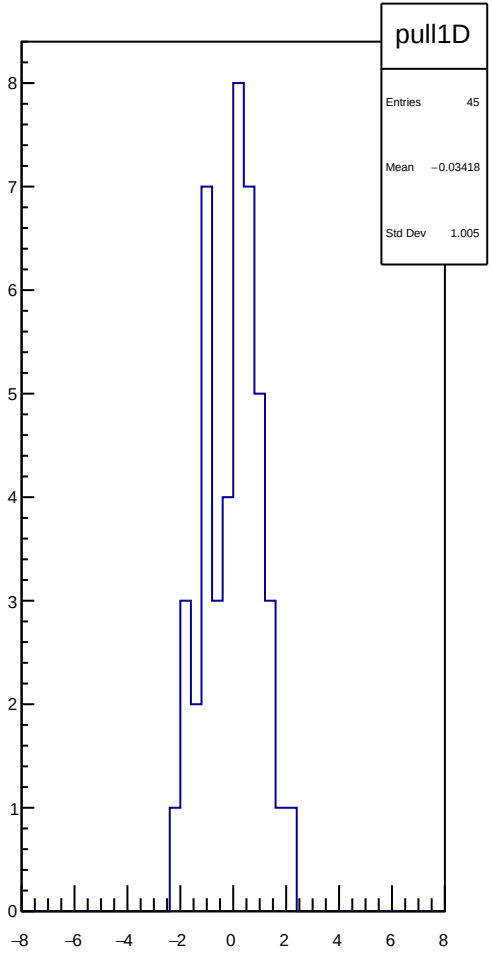

pull1D
Entries 45
Mean −0.01242
Std Dev 0.8254

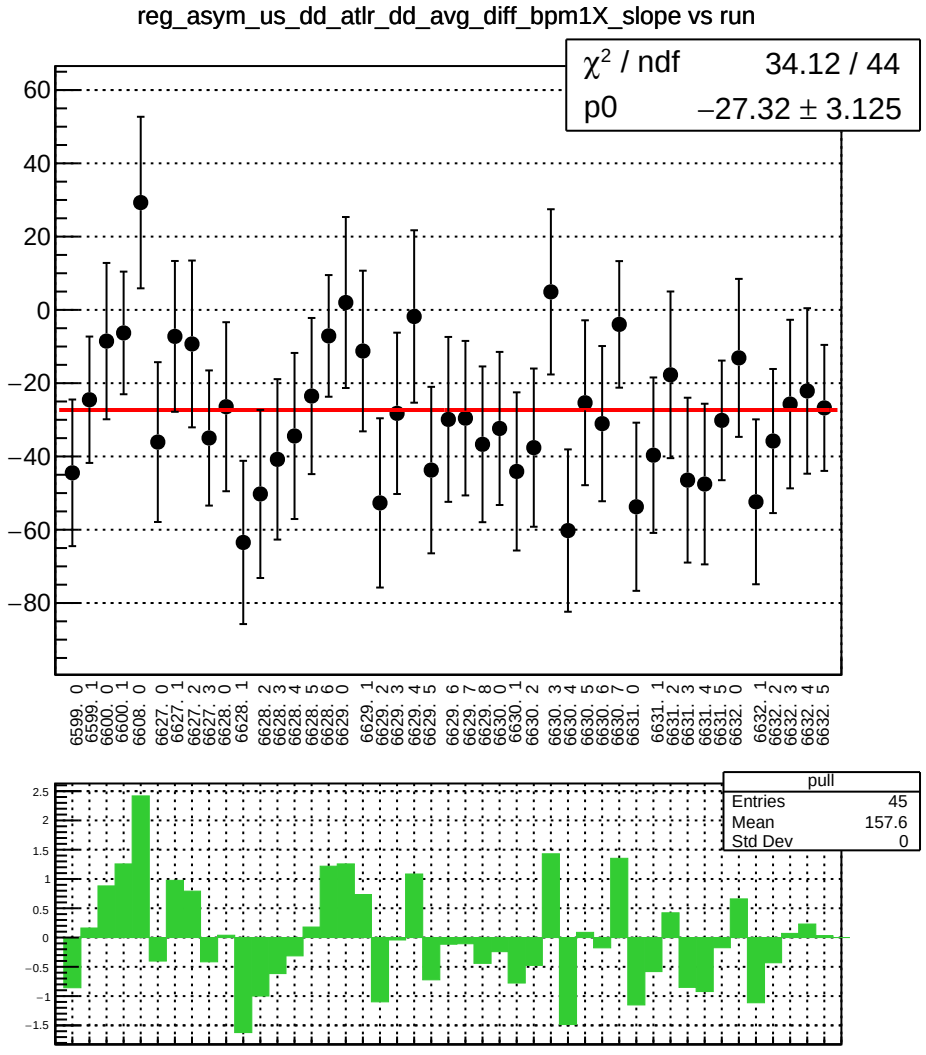

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 48.2 / 44
p0 −8.595 ± 3.085
pull
Entries 45
Mean 83.6
Std Dev 0

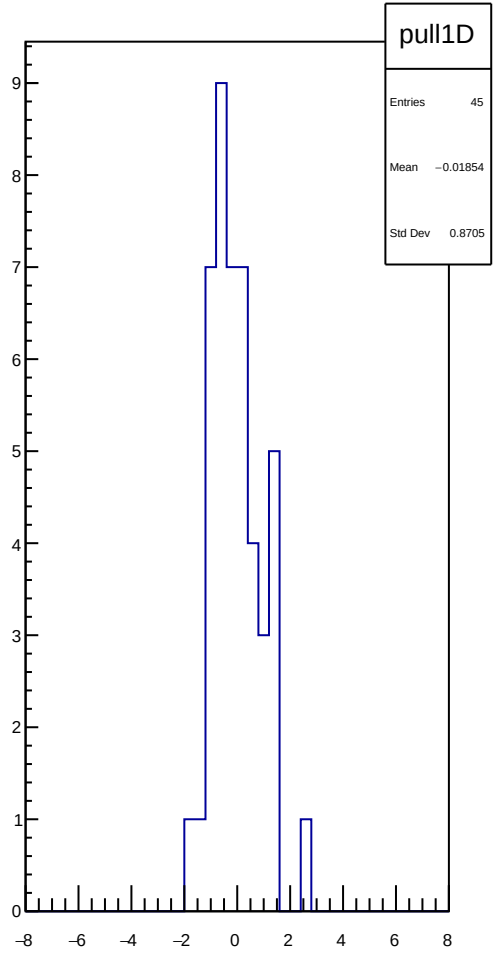

pull1D
Entries 45
Mean −0.01532
Std Dev 1.035

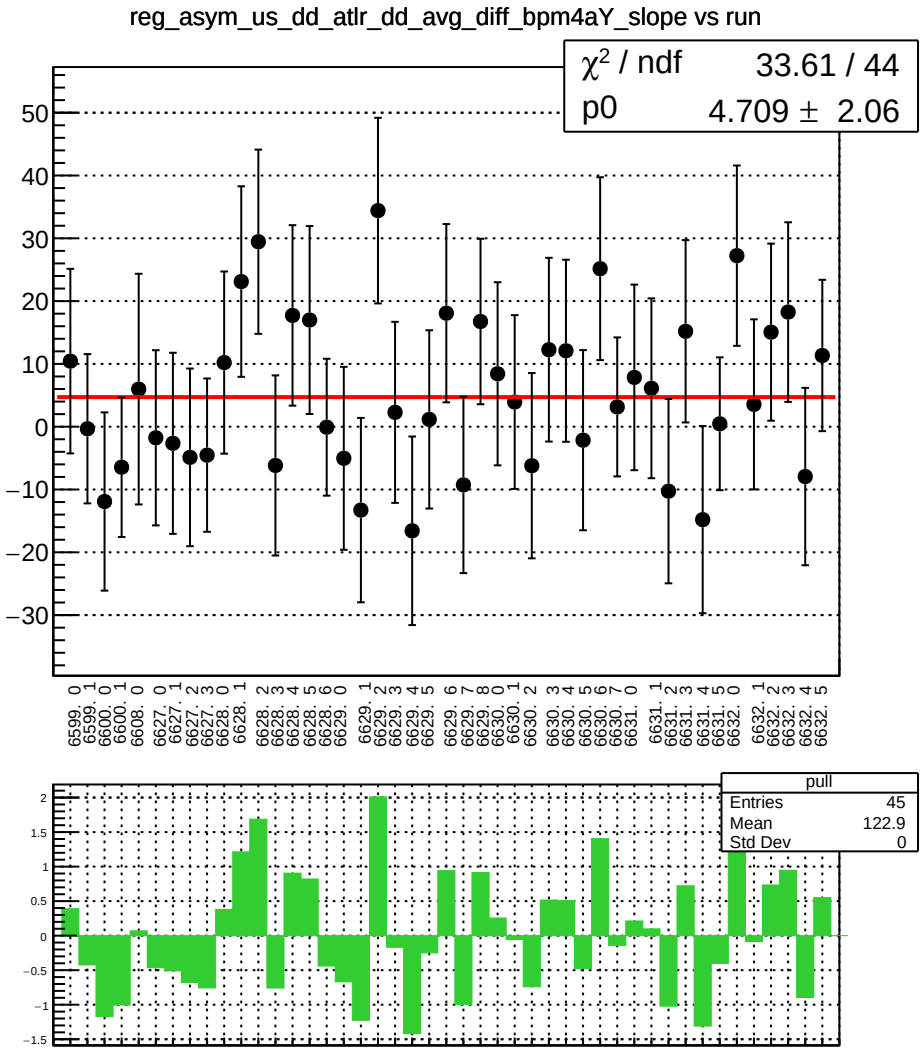

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 29.6 / 44
p0 2.864 ± 2.35
40
20
0
−20
−40
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −119.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.009585
Std Dev 0.811
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

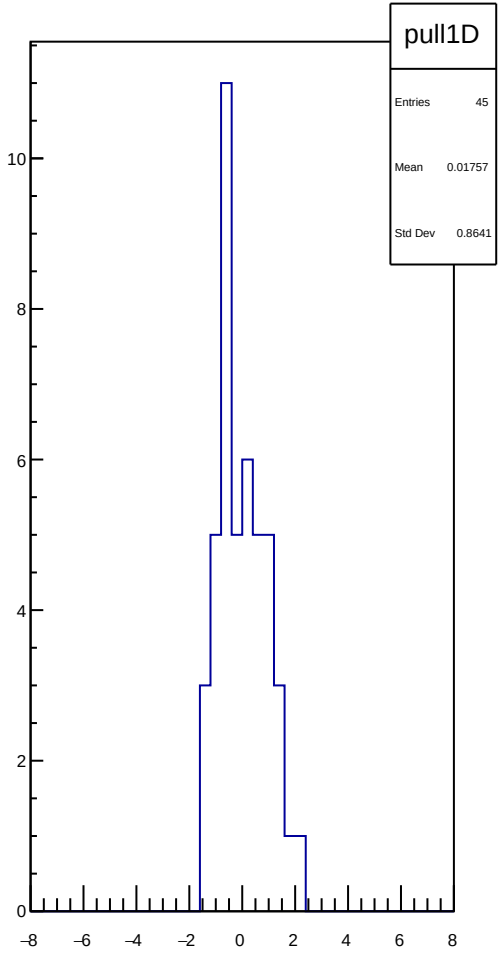

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 45.53 / 44
p0 16.82 ± 0.1259
pull
Entries 45
Mean 21.57
Std Dev 25.19

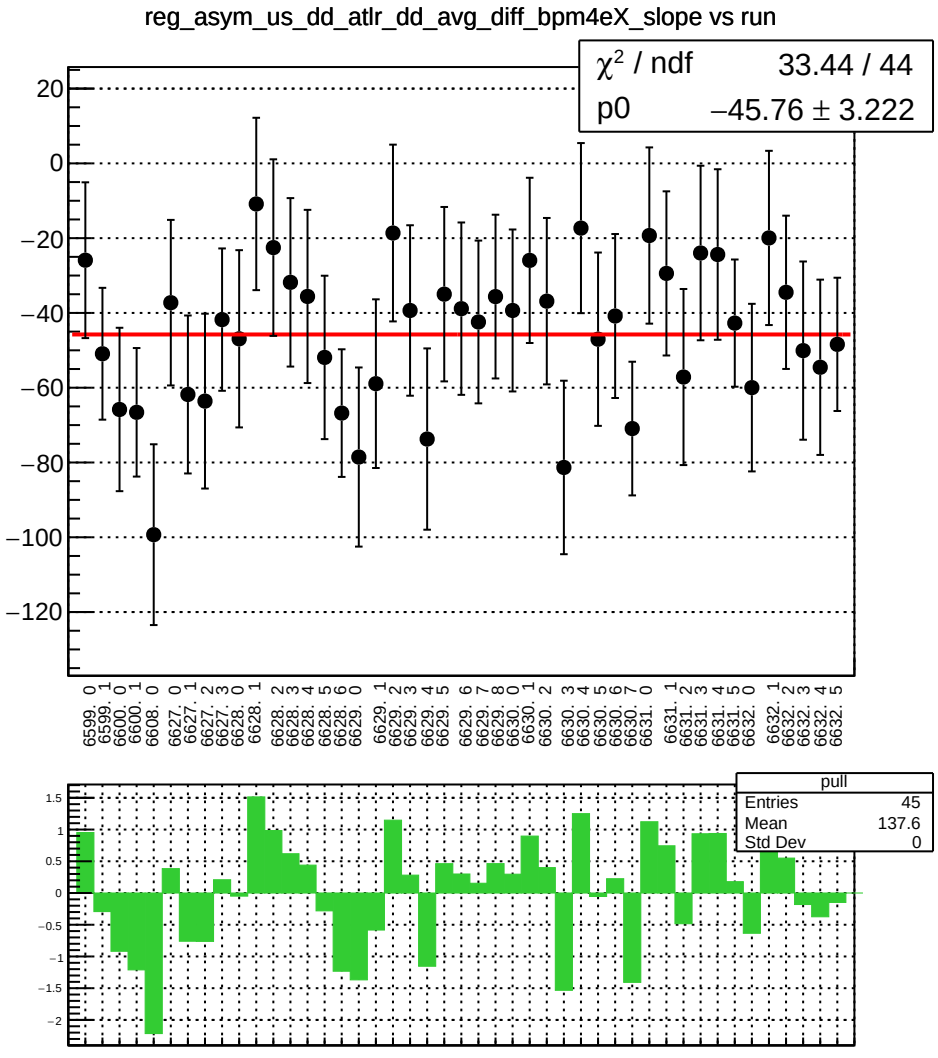

pull1D
Entries 45
Mean −0.03418
Std Dev 1.005

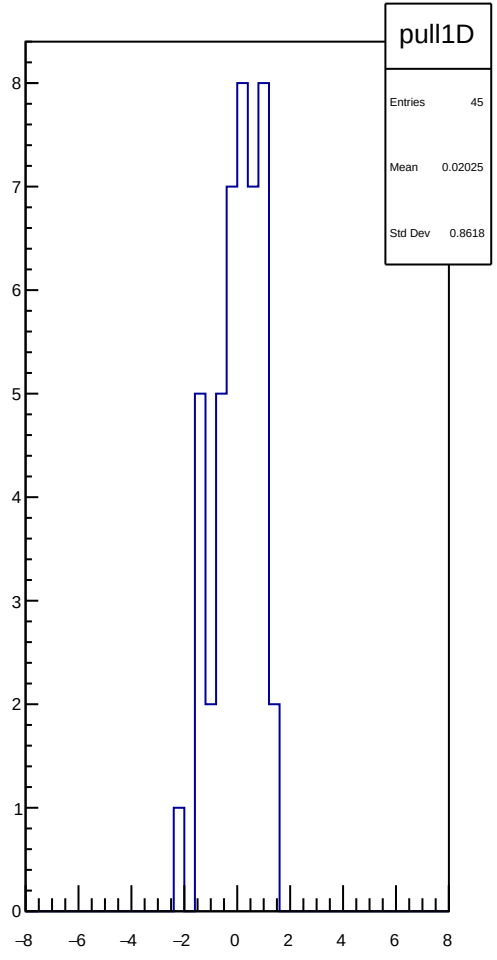

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 34.12 / 44
p0 −27.32 ± 3.125
pull
Entries 45
Mean 157.6
Std Dev 0

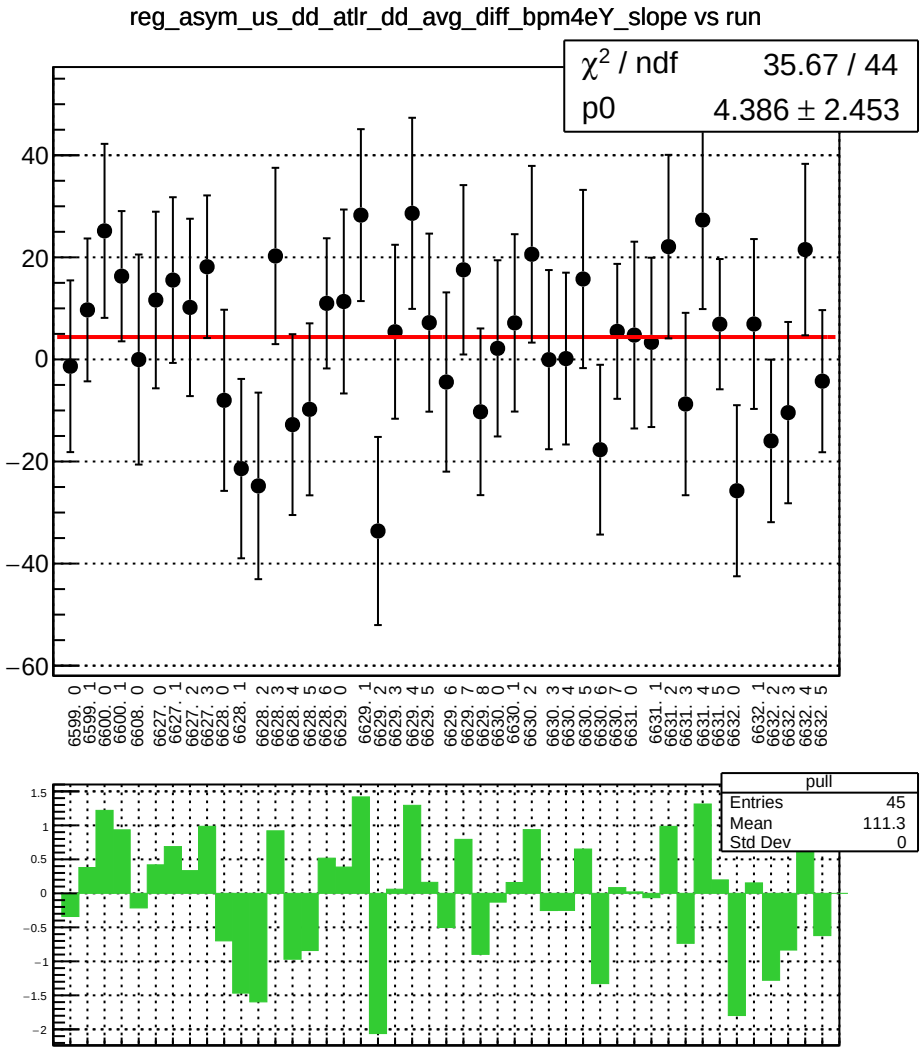

pull1D
Entries 45
Mean −0.01854
Std Dev 0.8705

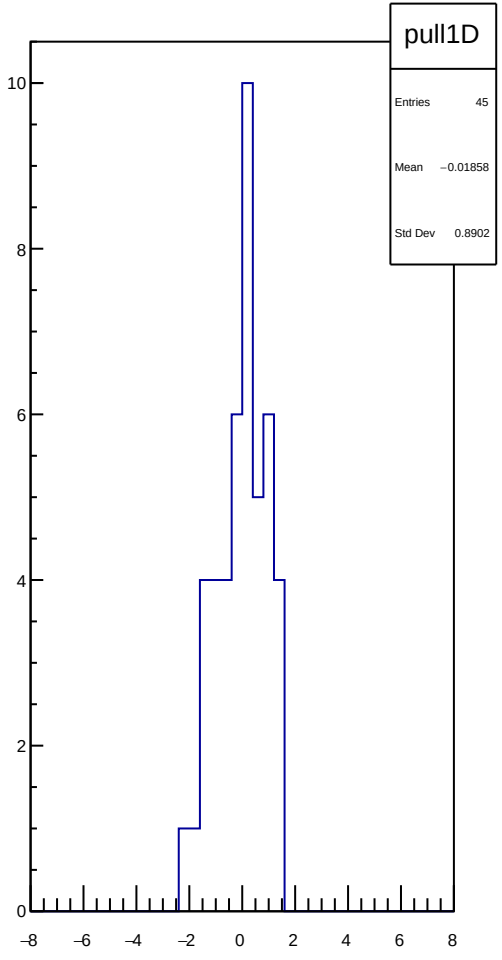

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 33.61 / 44
p0 4.709 ± 2.06
pull
Entries 45
Mean 122.9
Std Dev 0

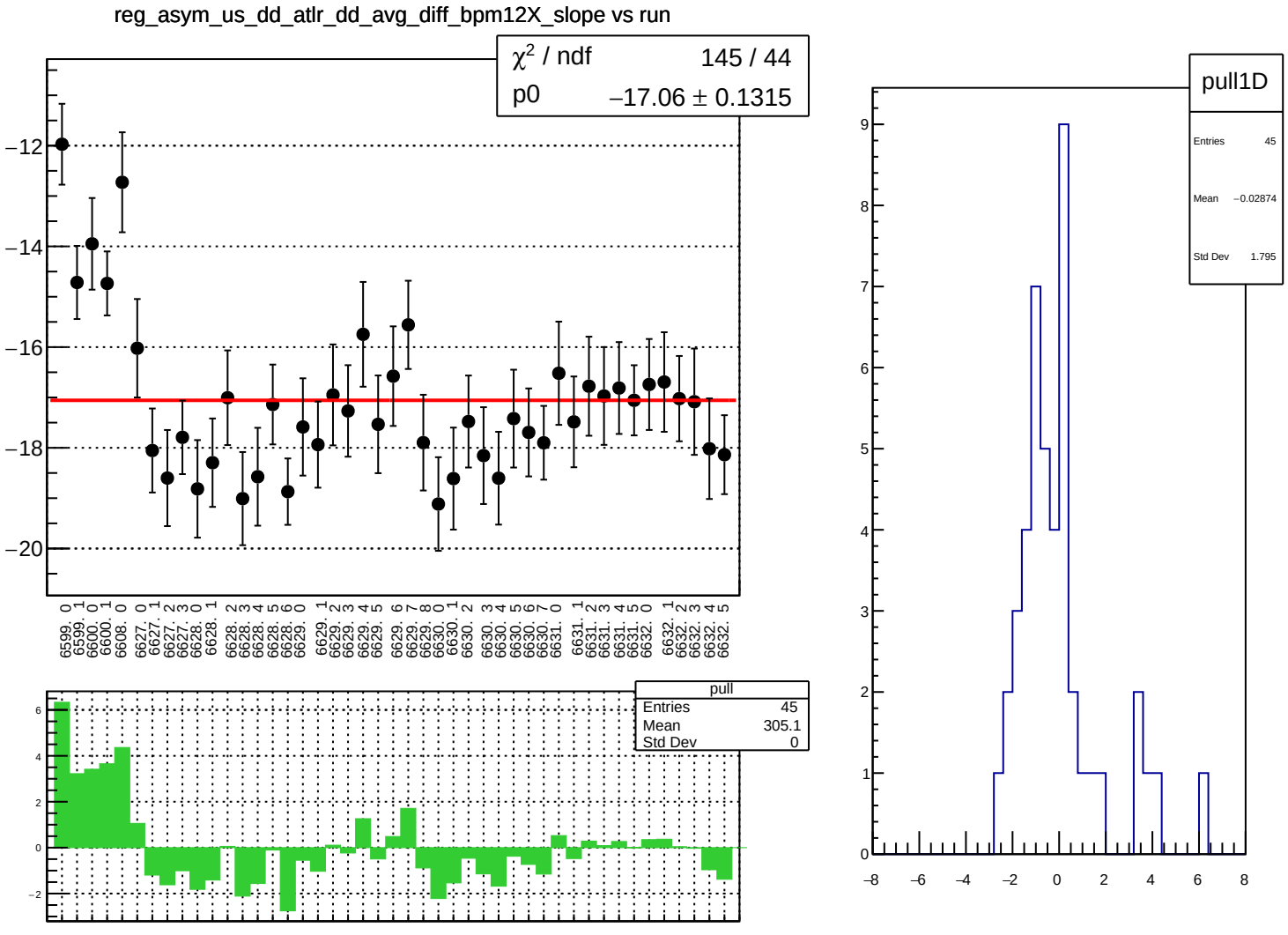

pull1D
Entries 45
Mean 0.01757
Std Dev 0.8641

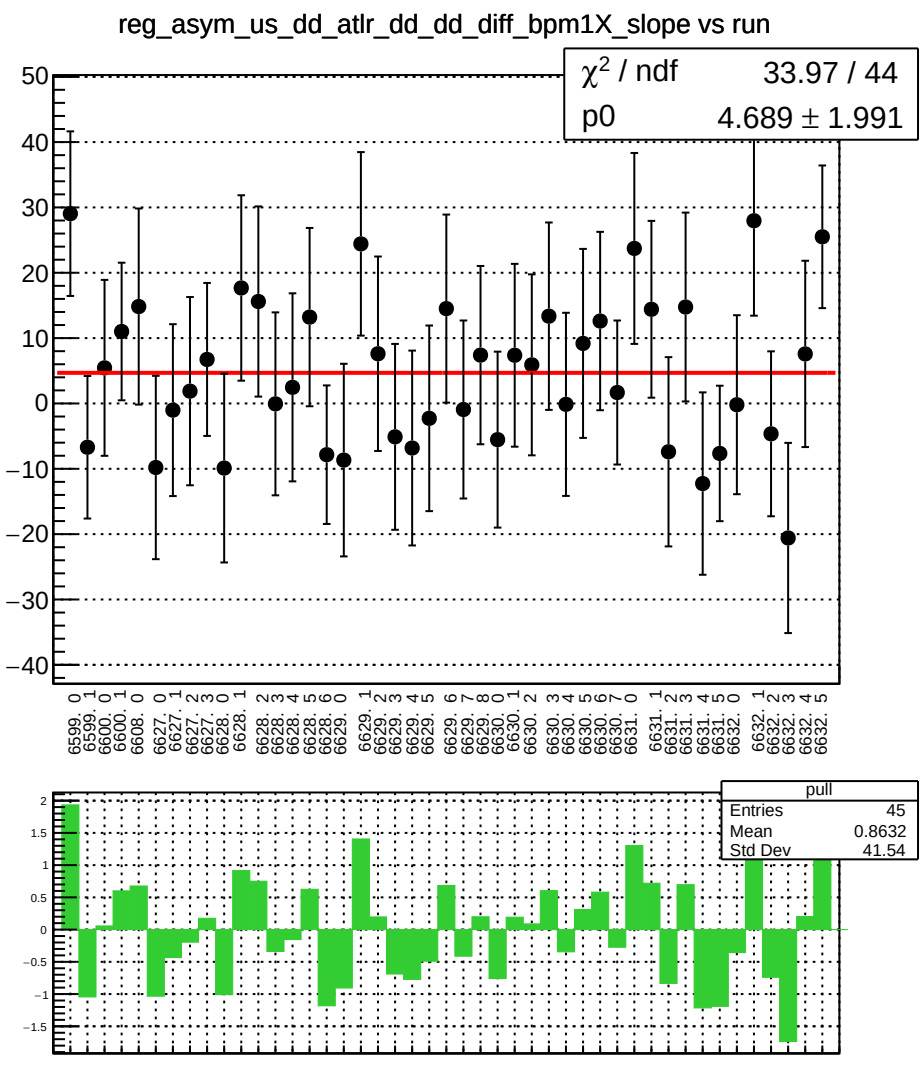

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 33.44 / 44
p0 −45.76 ± 3.222
pull
Entries 45
Mean 137.6
Std Dev 0

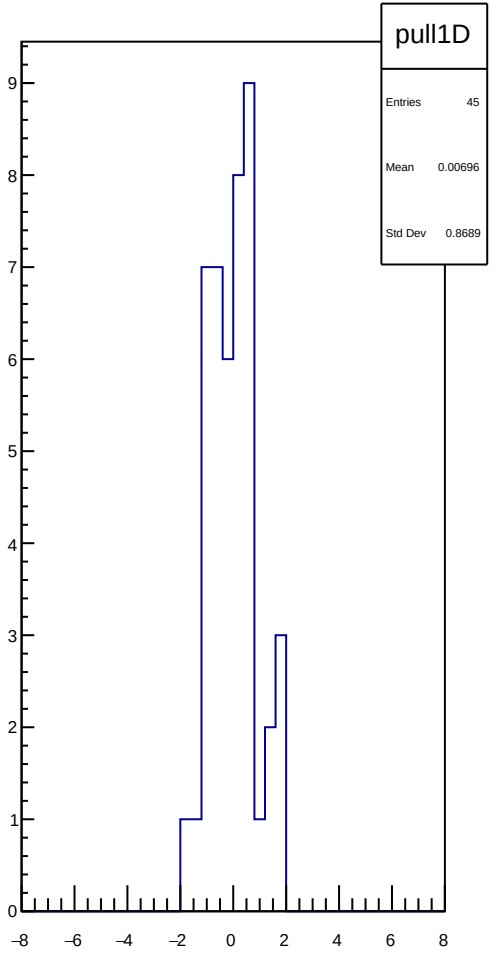

pull1D
Entries 45
Mean 0.02025
Std Dev 0.8618

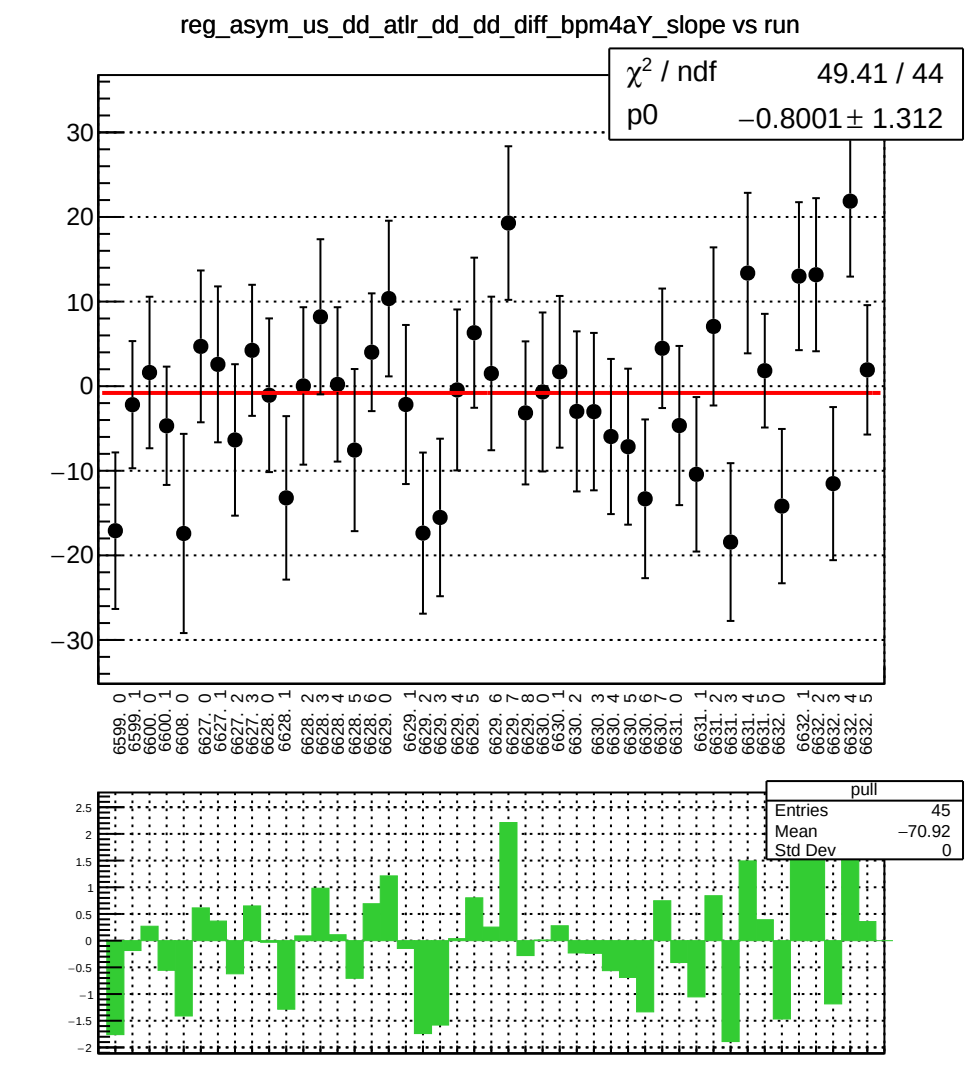

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 35.67 / 44
p0 4.386 ± 2.453
pull
Entries 45
Mean 111.3
Std Dev 0

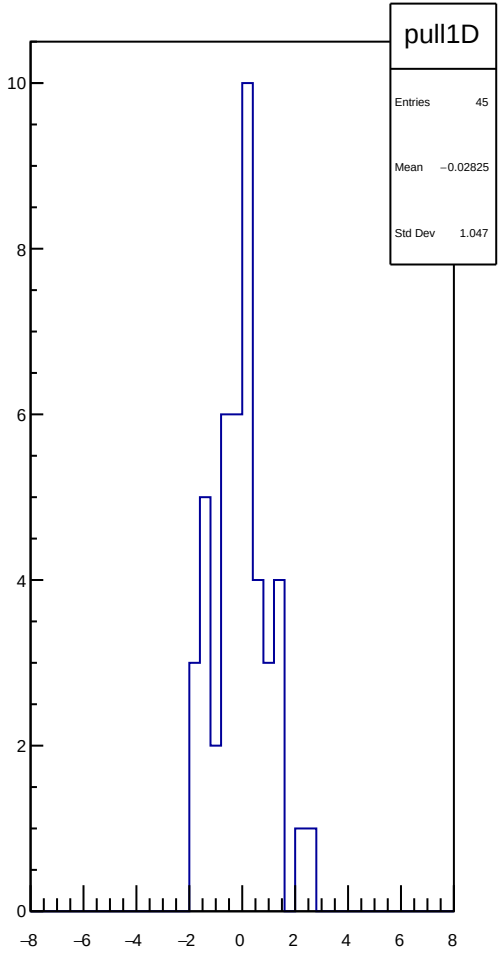

pull1D
Entries 45
Mean −0.01858
Std Dev 0.8902

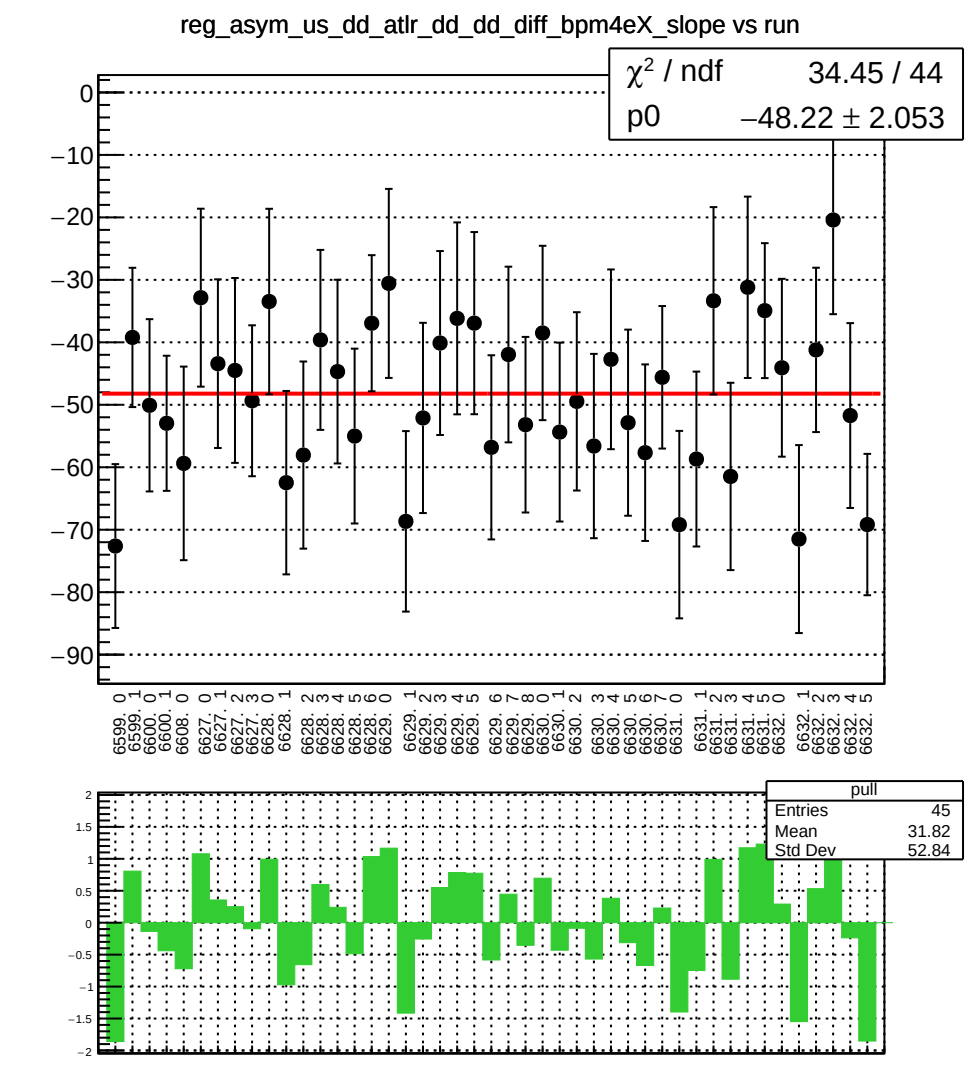

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 145 / 44
p0 −17.06 ± 0.1315
−12
−14
−16
−18
−20
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 305.1
Std Dev 0
6
4
2
0
−2
pull1D
Entries 45
Mean −0.02874
Std Dev 1.795
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

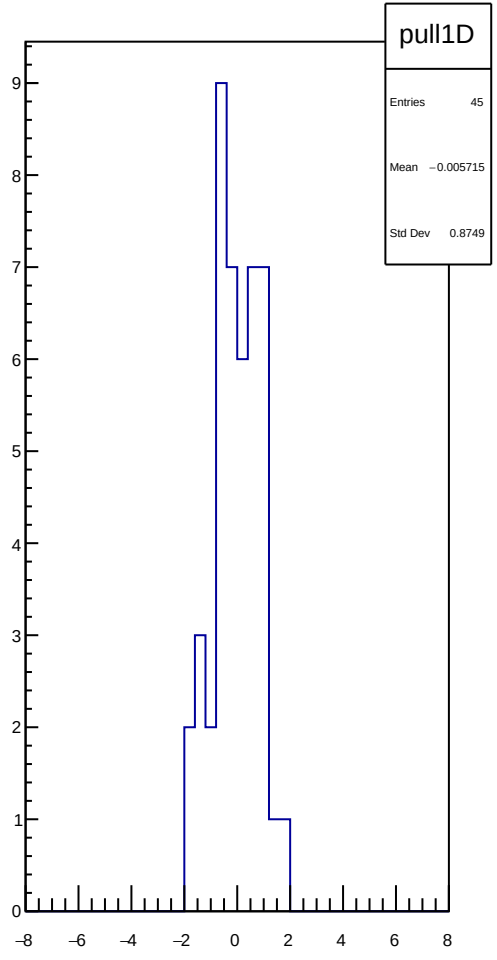

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 33.97 / 44
p0 4.689 ± 1.991
pull
Entries 45
Mean 0.8632
Std Dev 41.54

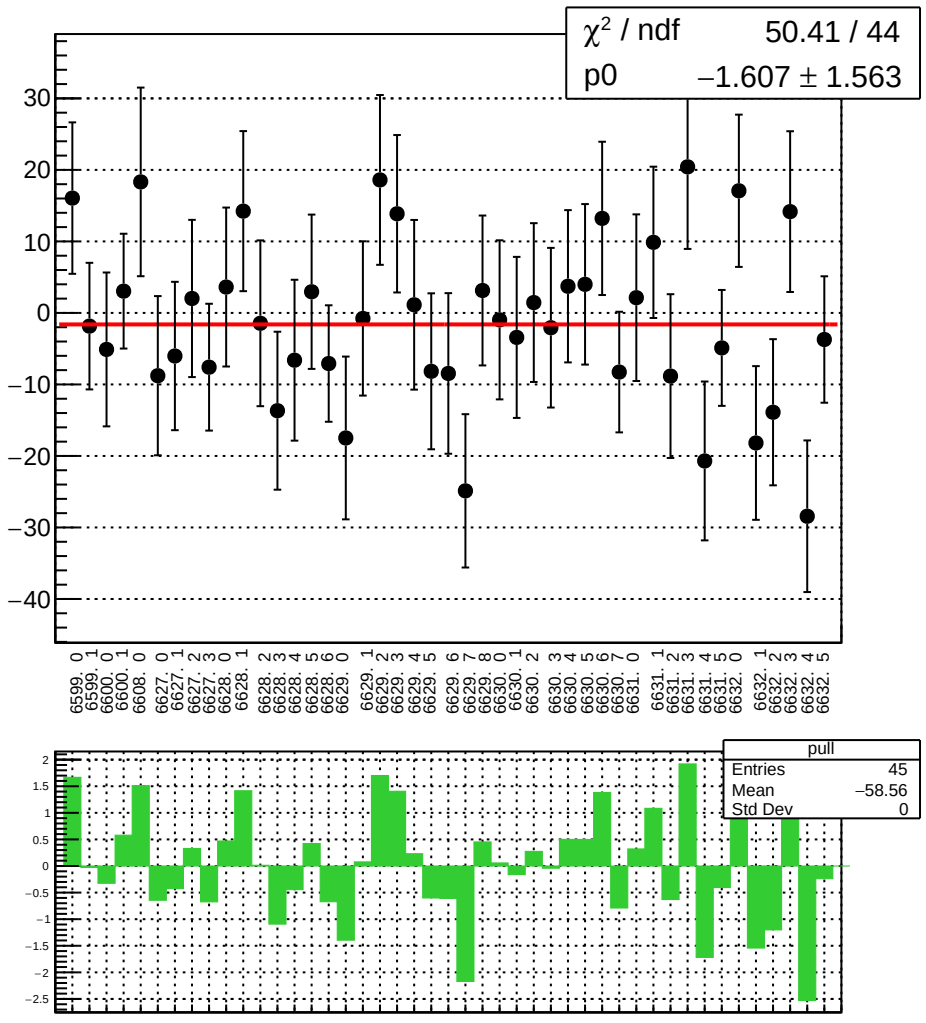

pull1D
Entries 45
Mean 0.00696
Std Dev 0.8689

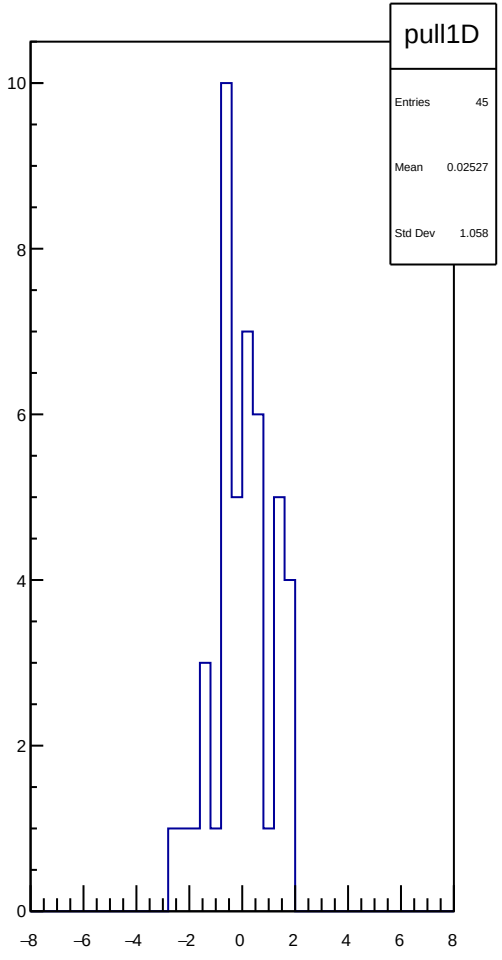

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 49.41 / 44
p0 −0.8001 ± 1.312
30
20
10
0
−10
−20
−30
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −70.92
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

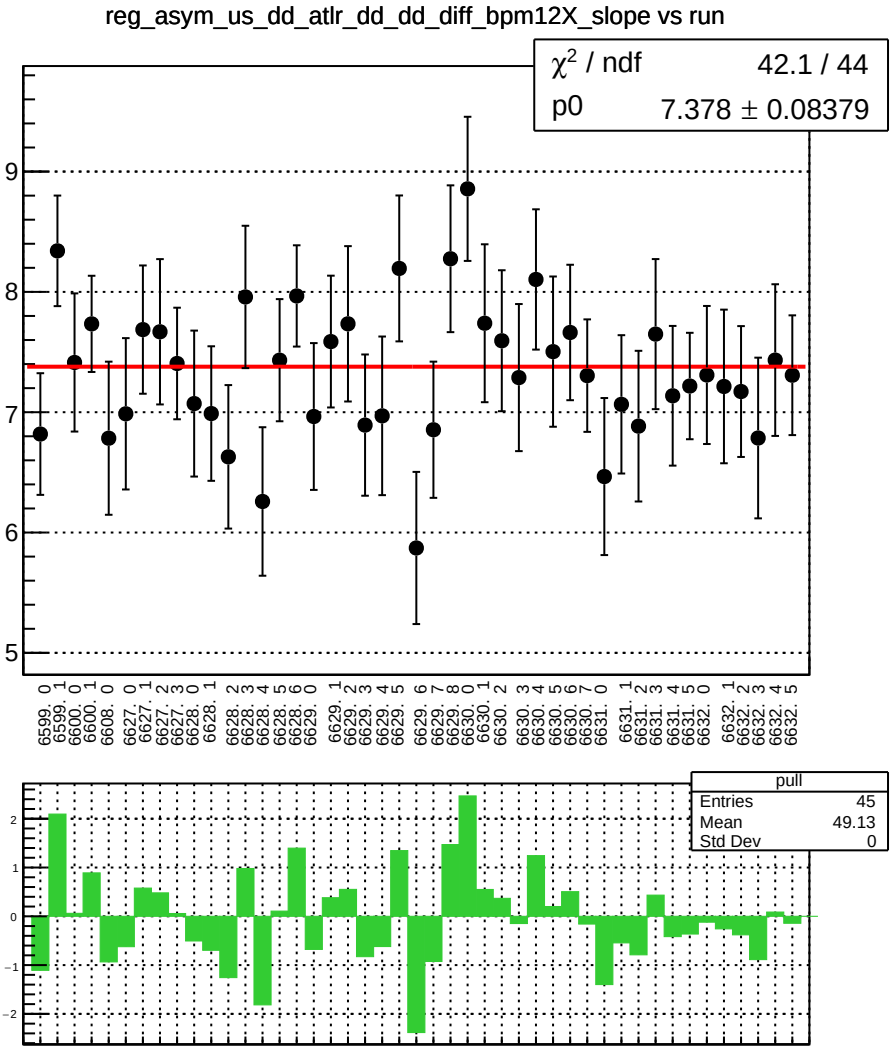

pull1D
Entries 45
Mean −0.02825
Std Dev 1.047
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

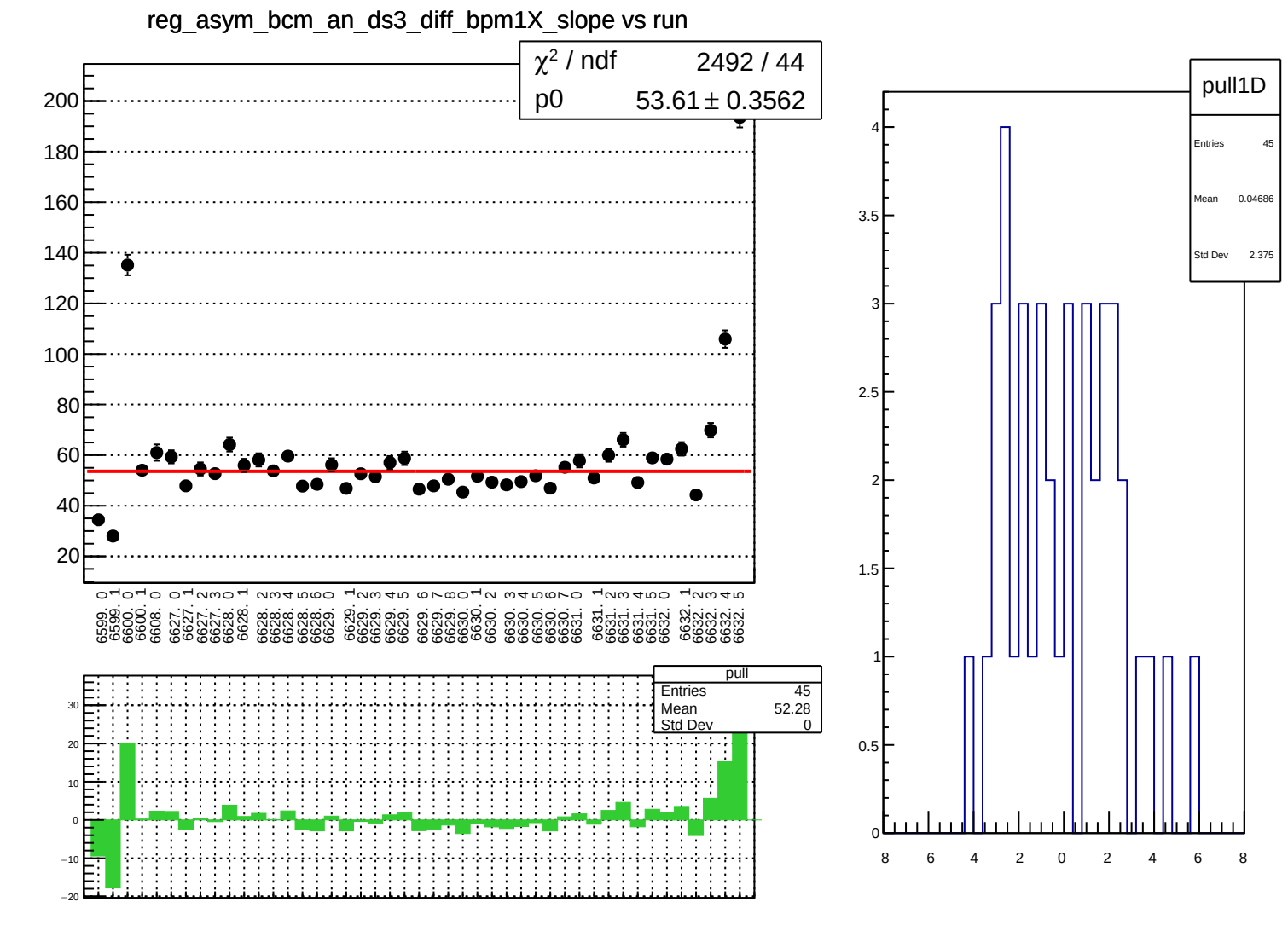

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.45 / 44
p0 −48.22 ± 2.053
pull
Entries 45
Mean 31.82
Std Dev 52.84

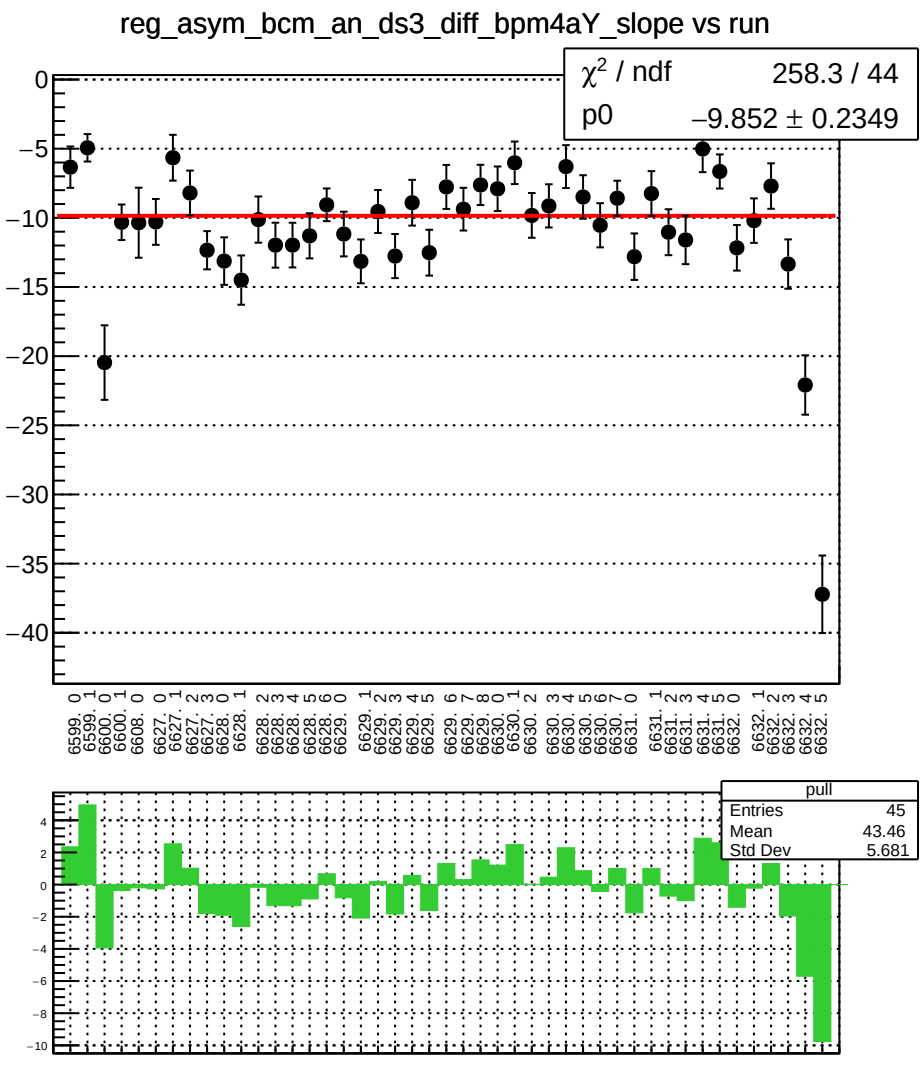

pull1D
Entries 45
Mean −0.005715
Std Dev 0.8749

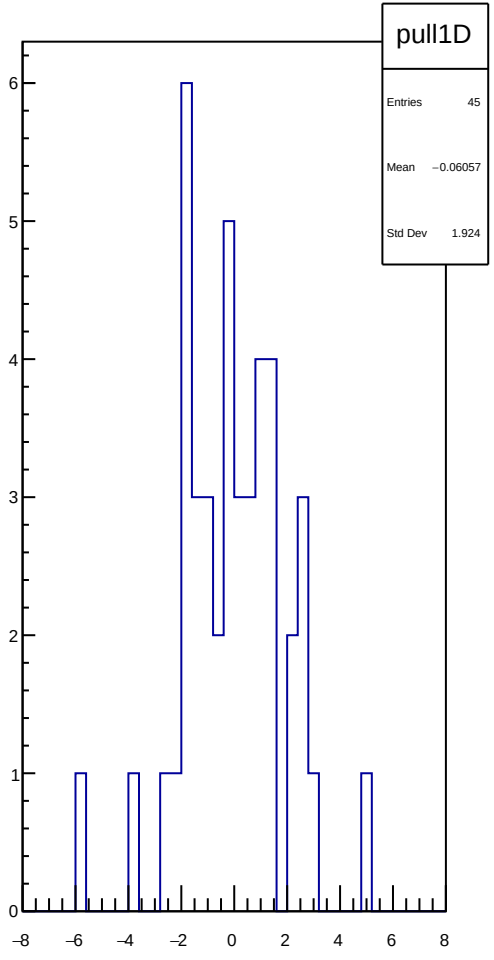

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 50.41 / 44
p0 −1.607 ± 1.563
pull
Entries 45
Mean −58.56
Std Dev 0

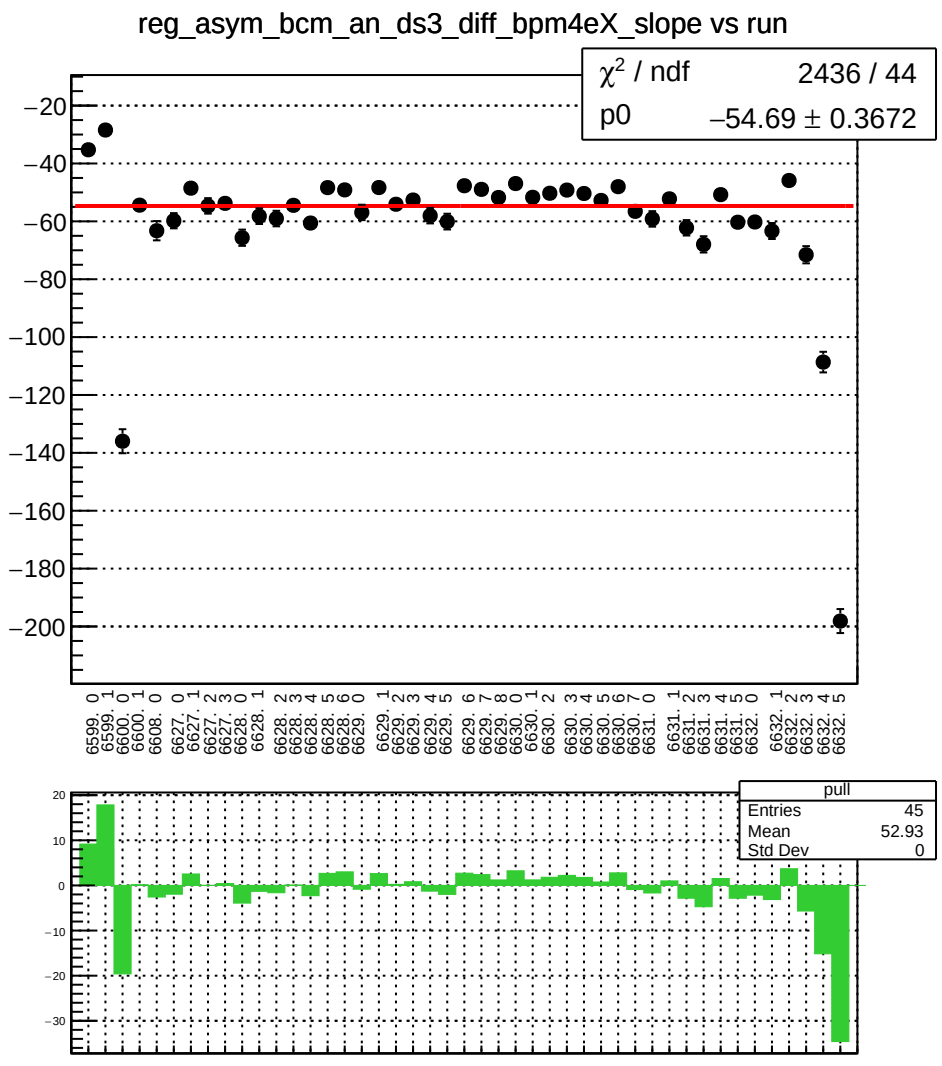

pull1D
Entries 45
Mean 0.02527
Std Dev 1.058

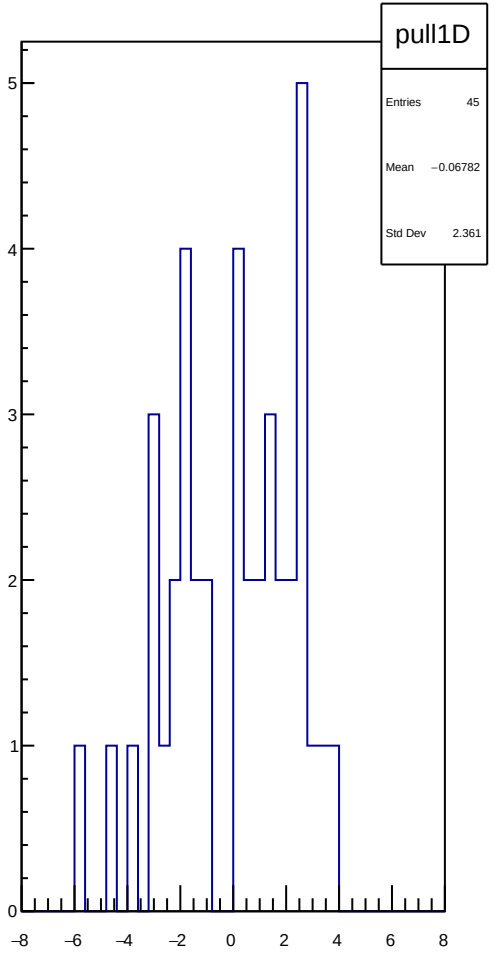

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 42.1 / 44
p0 7.378 ± 0.08379
pull
Entries 45
Mean 49.13
Std Dev 0
pull1D
Entries 45
Mean −0.03832
Std Dev 0.9665

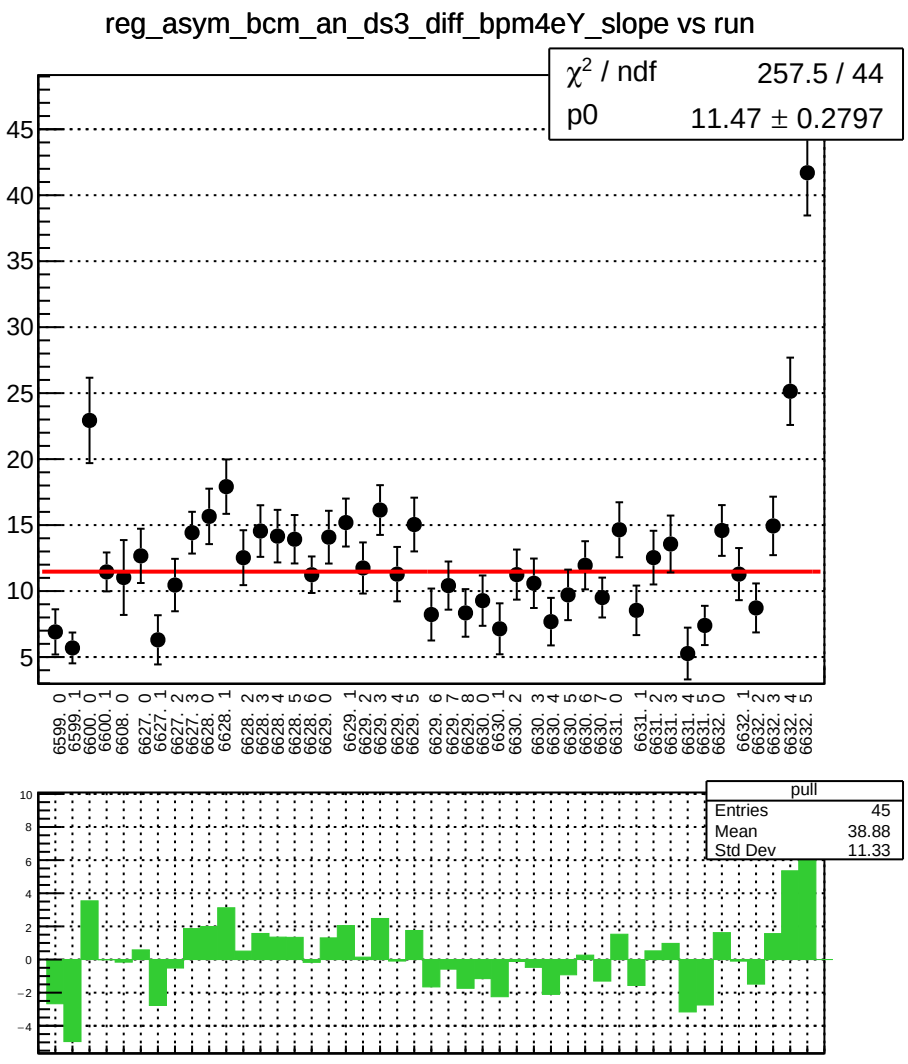

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 2492 / 44
p0 53.61 ± 0.3562
pull
Entries 45
Mean 52.28
Std Dev 0
pull1D
Entries 45
Mean 0.04686
Std Dev 2.375

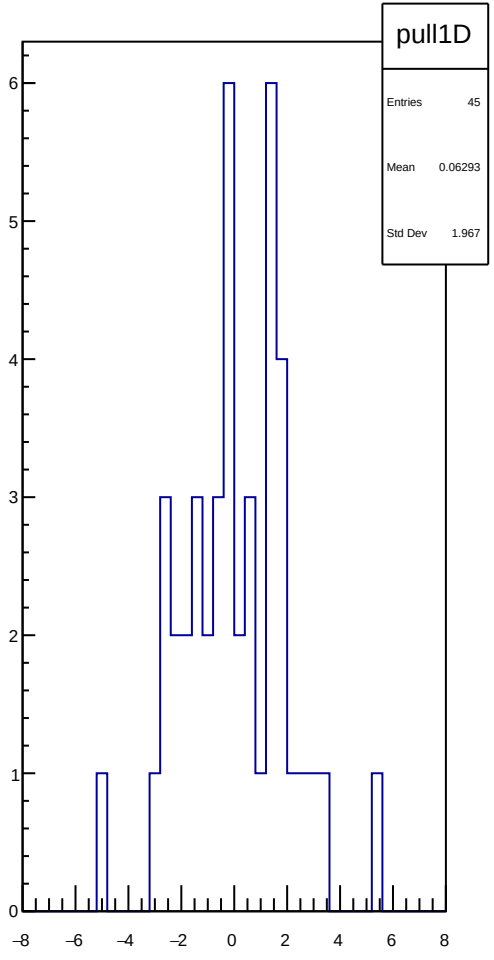

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 258.3 / 44
p0 −9.852 ± 0.2349
pull
Entries 45
Mean 43.46
Std Dev 5.681

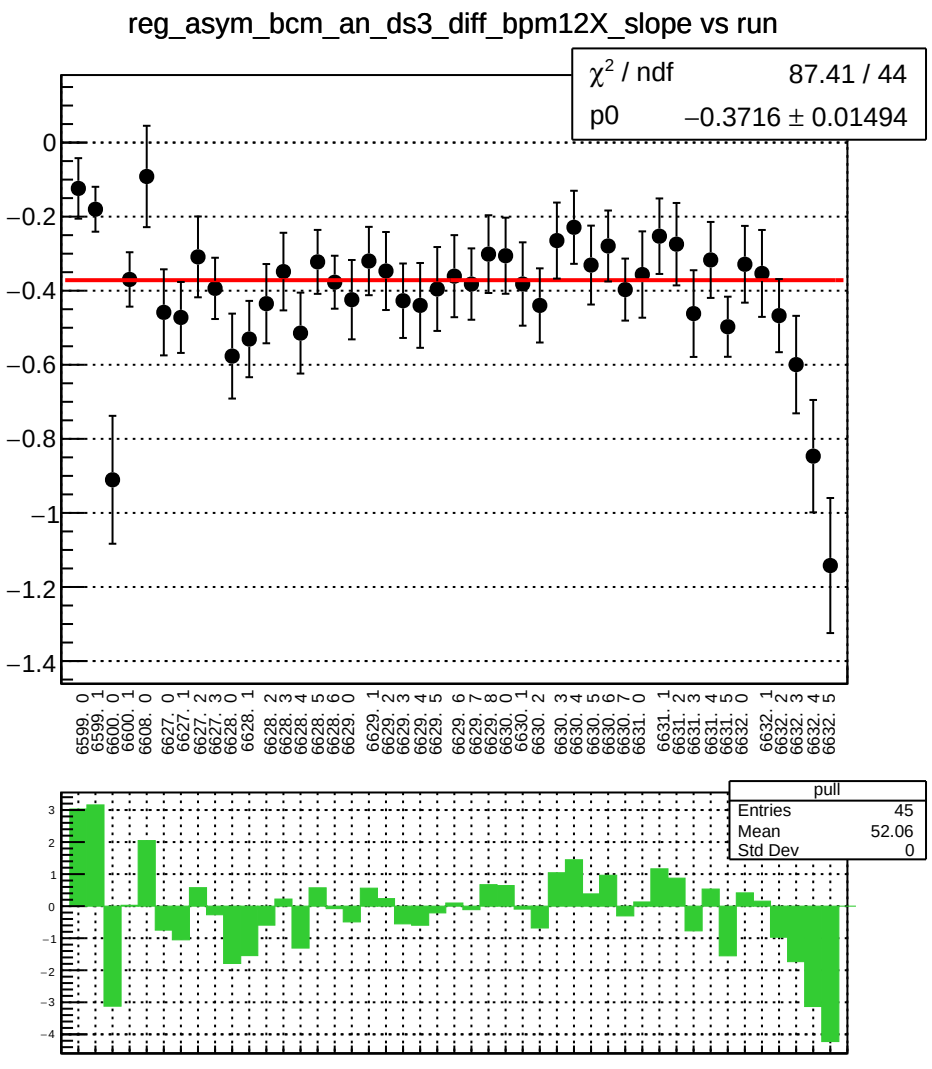

pull1D
Entries 45
Mean −0.06057
Std Dev 1.924

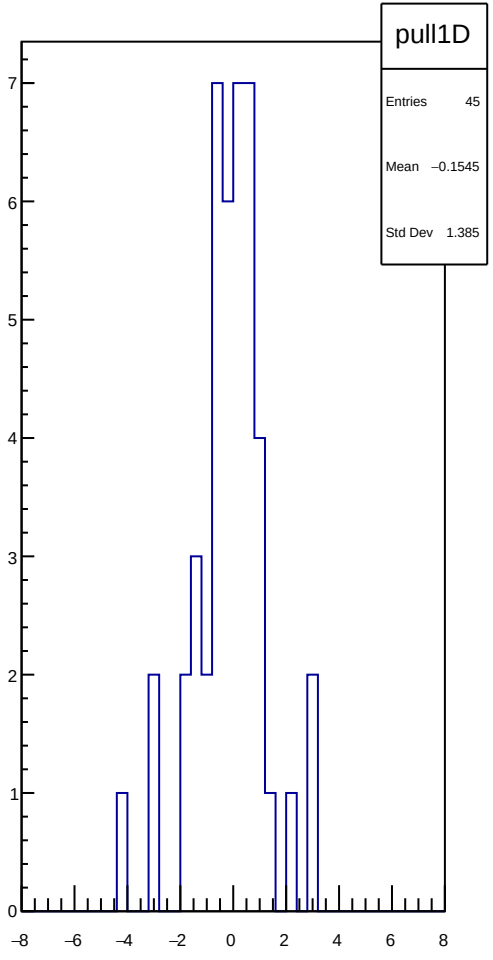

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 2436 / 44
p0 −54.69 ± 0.3672
pull
Entries 45
Mean 52.93
Std Dev 0

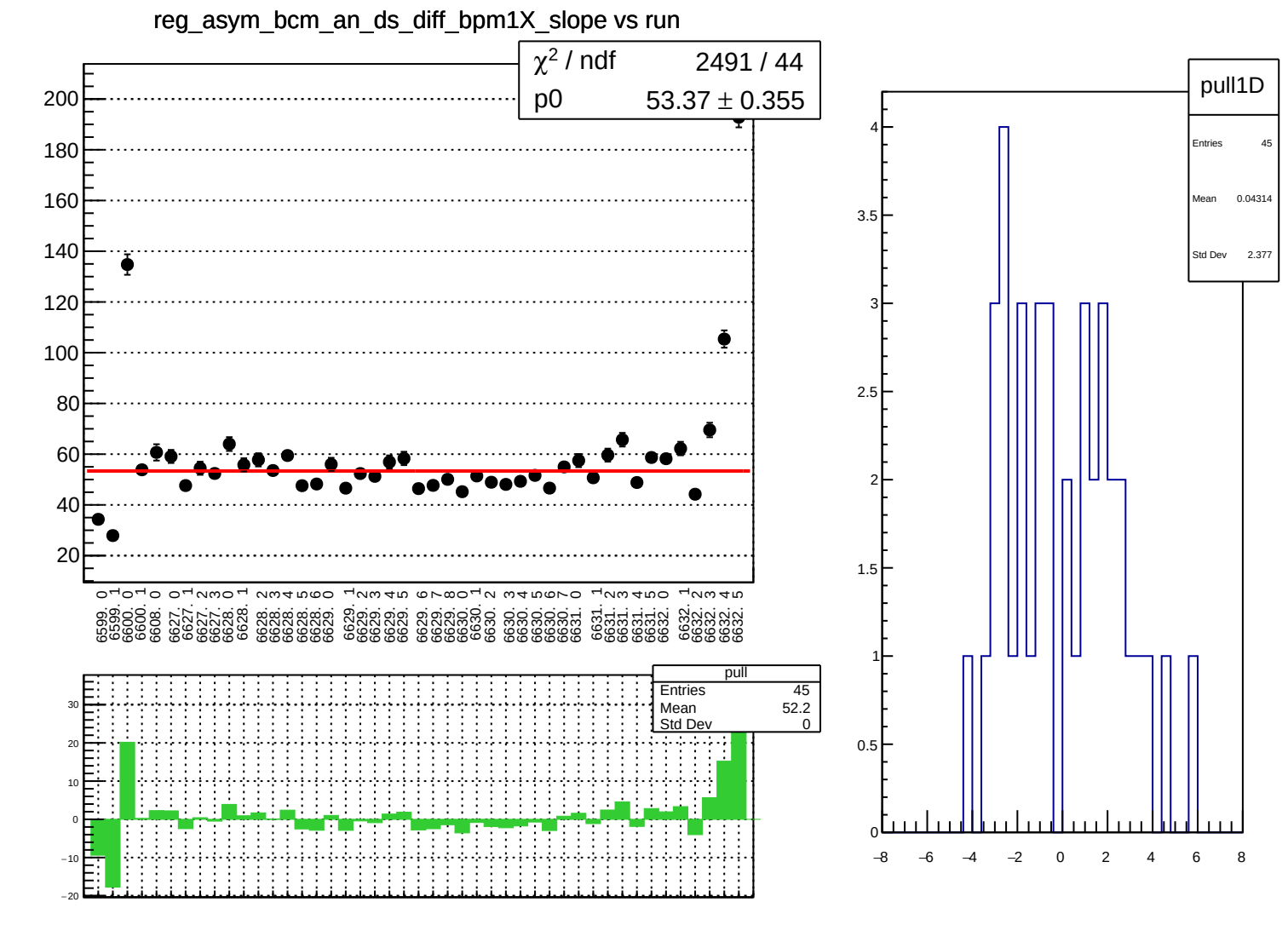

pull1D
Entries 45
Mean −0.06782
Std Dev 2.361

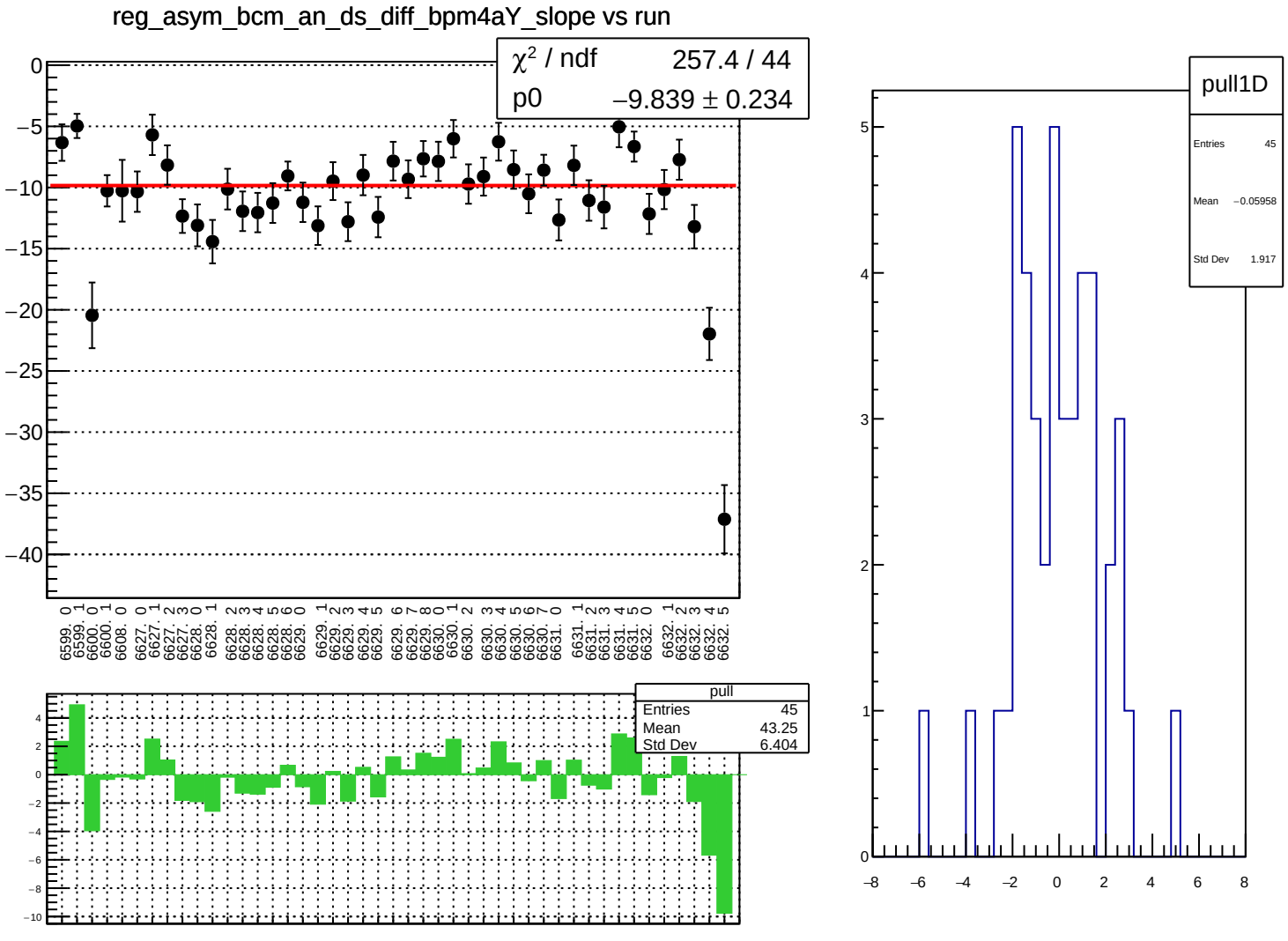

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 257.5 / 44
p0 11.47 ± 0.2797
pull
Entries 45
Mean 38.88
Std Dev 11.33

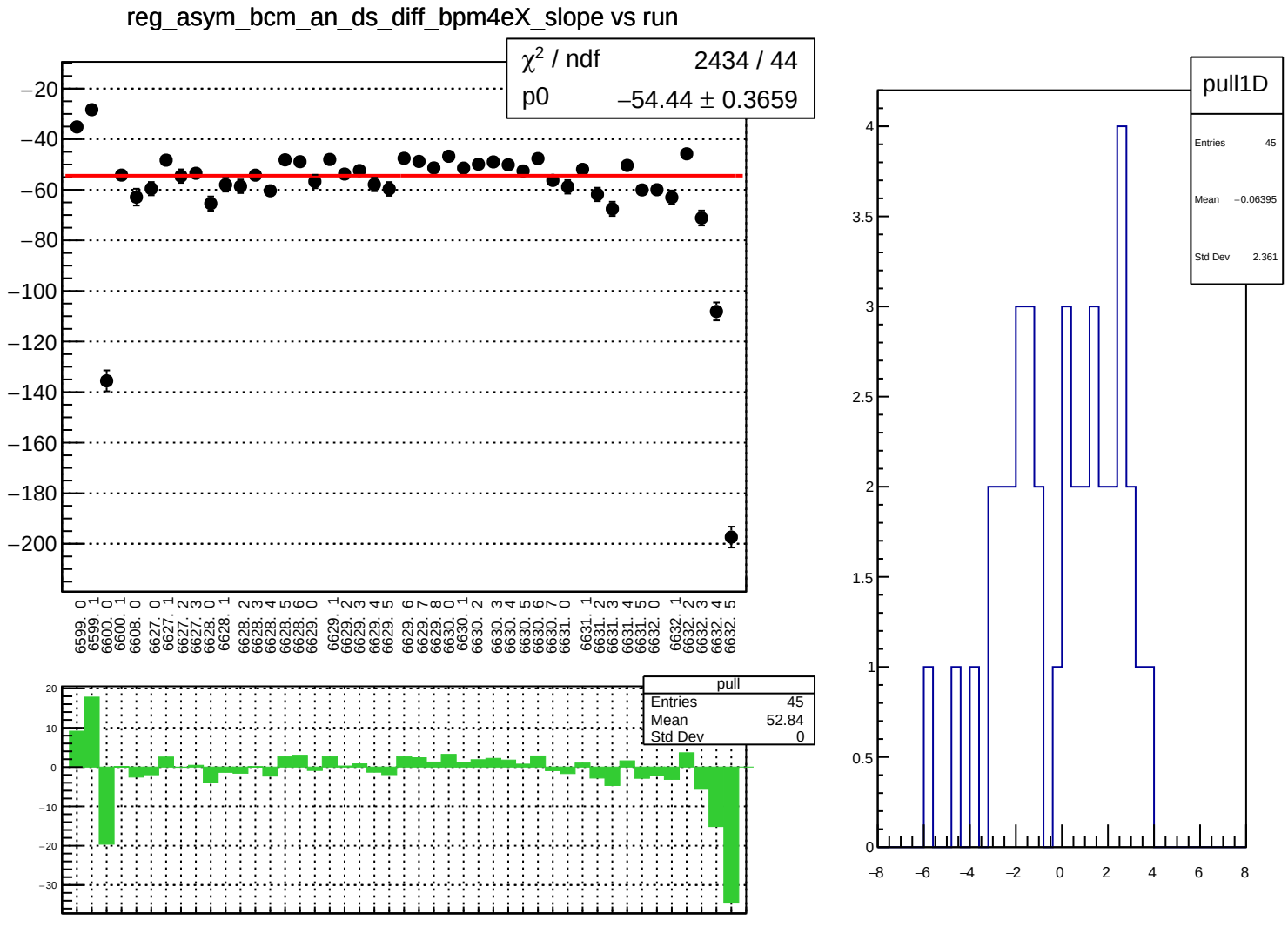

pull1D
Entries 45
Mean 0.06293
Std Dev 1.967

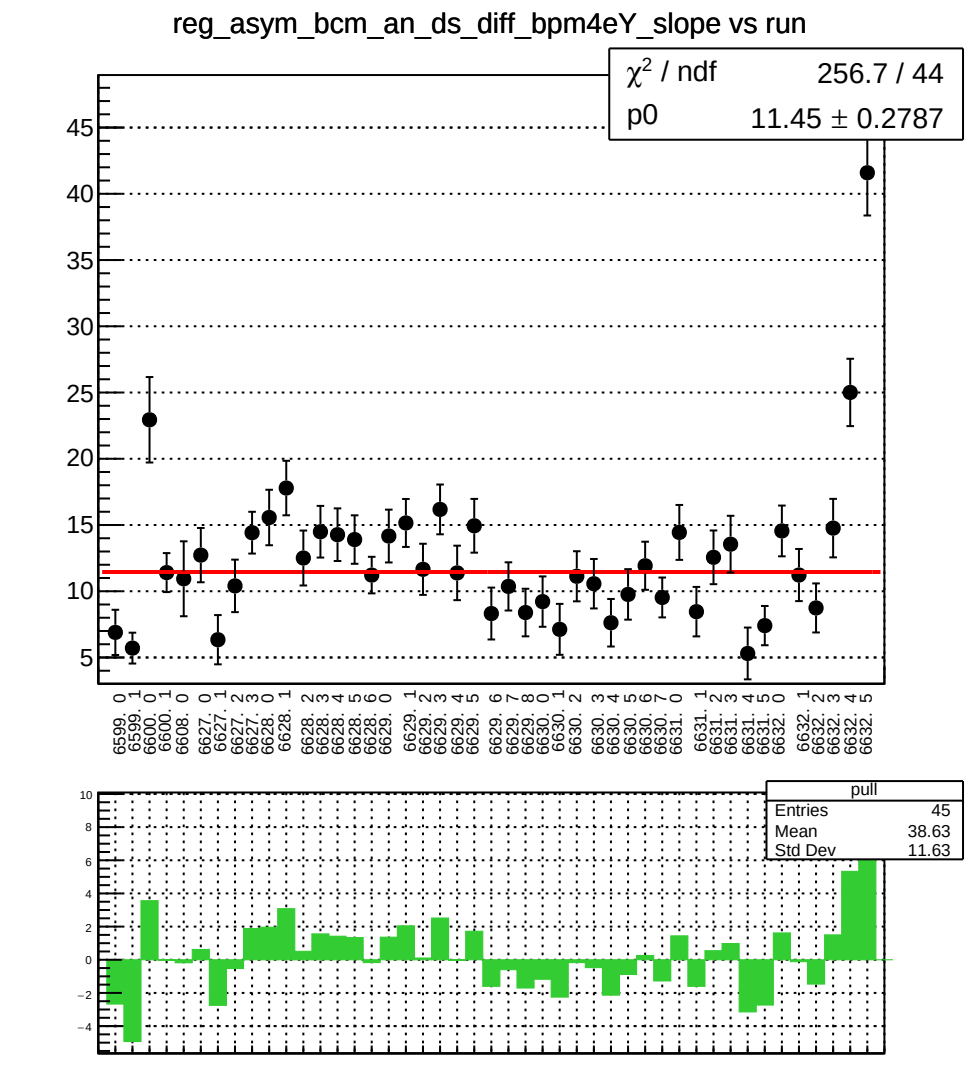

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 87.41 / 44
p0 −0.3716 ± 0.01494
pull
Entries 45
Mean 52.06
Std Dev 0

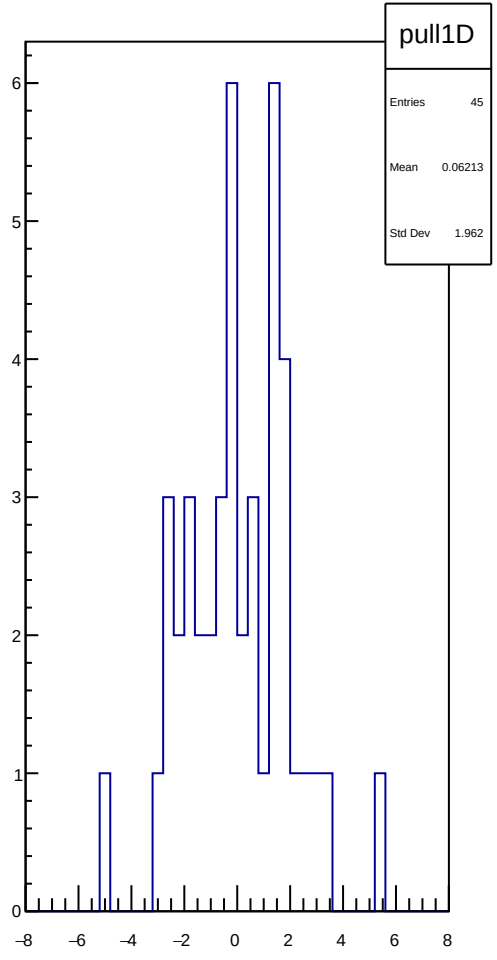

pull1D
Entries 45
Mean −0.1545
Std Dev 1.385

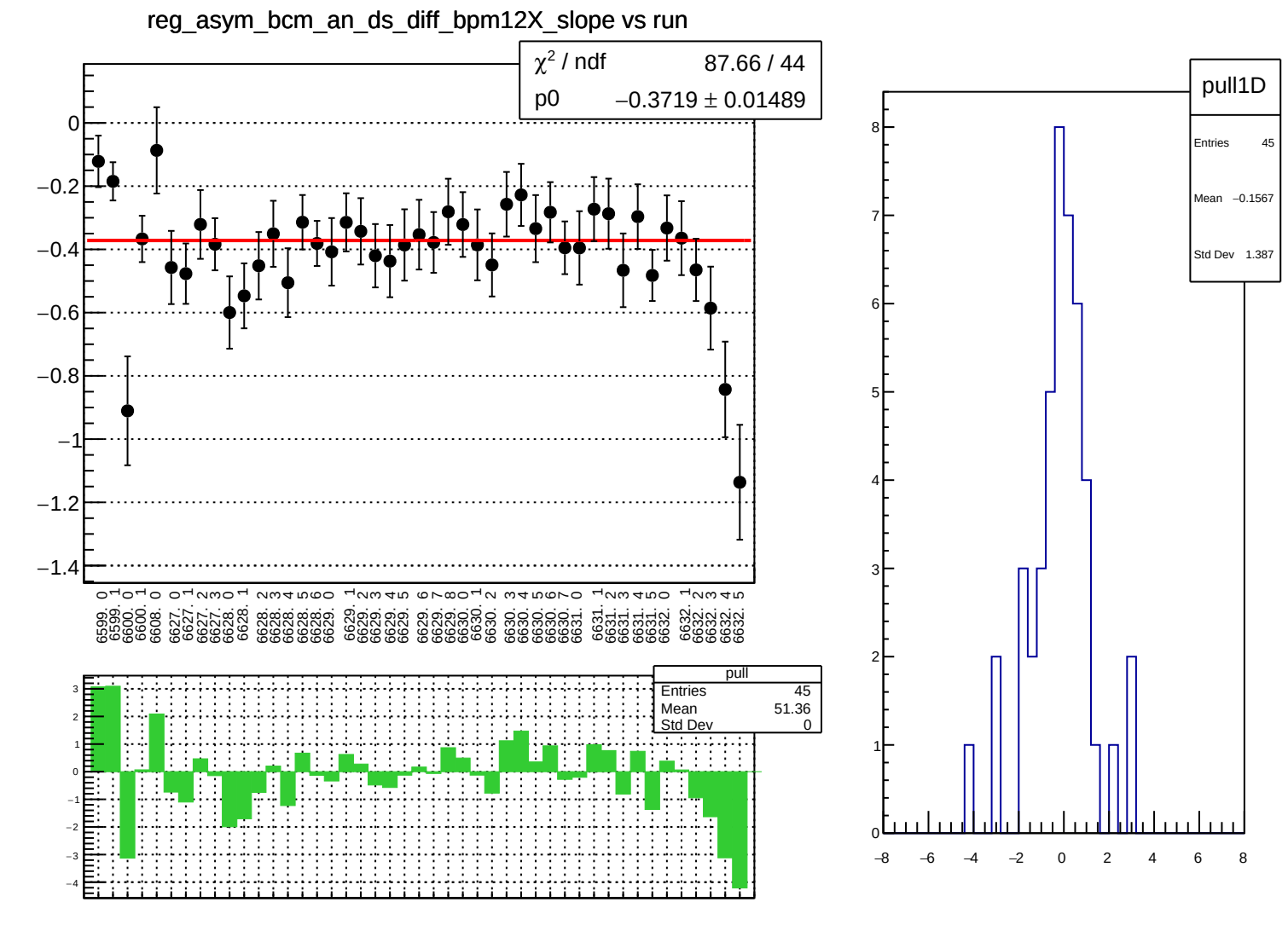

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 2491 / 44
p0 53.37 ± 0.355
pull
Entries 45
Mean 52.2
Std Dev 0
pull1D
Entries 45
Mean 0.04314
Std Dev 2.377

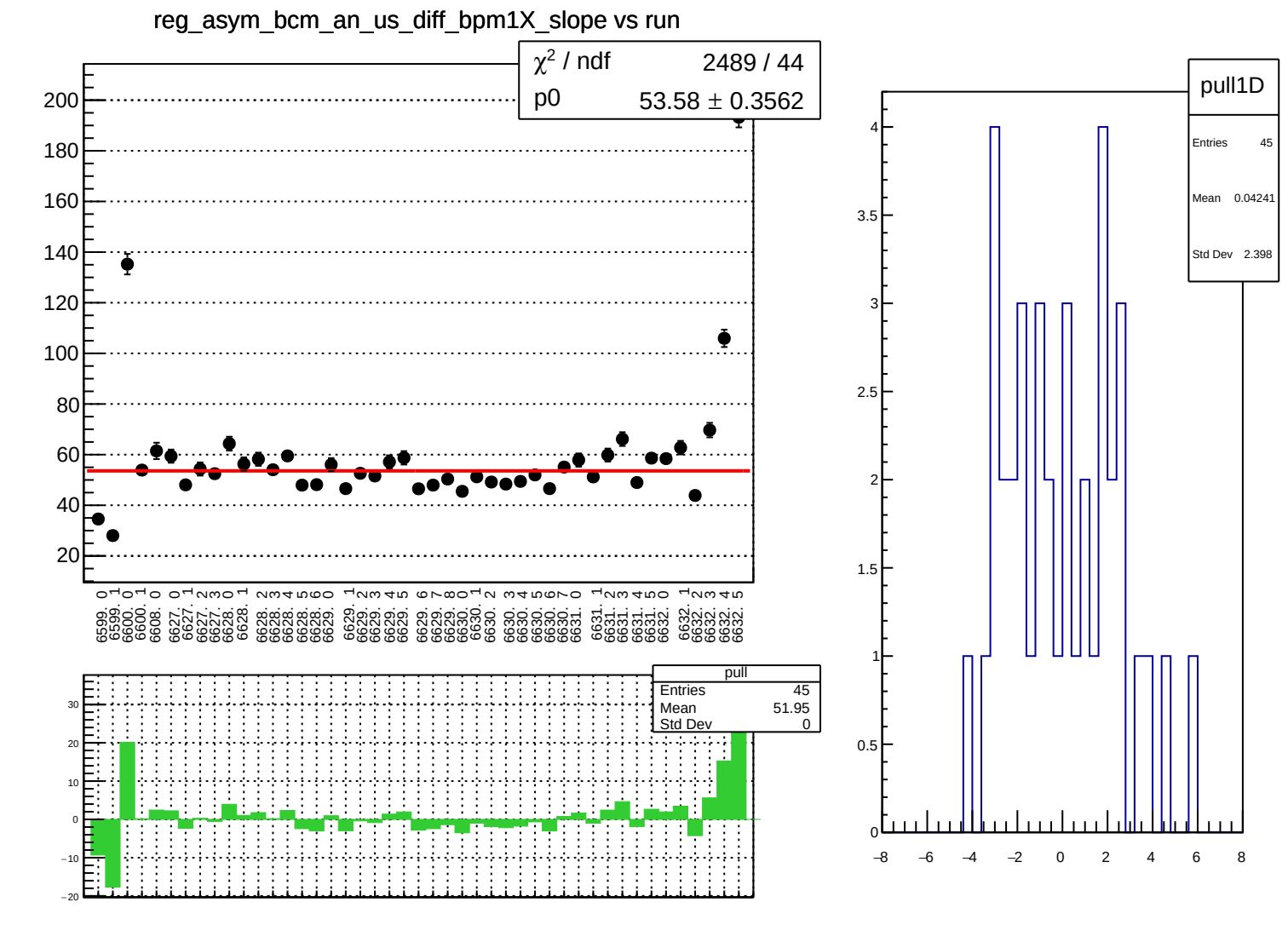

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 257.4 / 44
p0 −9.839 ± 0.234
pull
Entries 45
Mean 43.25
Std Dev 6.404
pull1D
Entries 45
Mean −0.05958
Std Dev 1.917

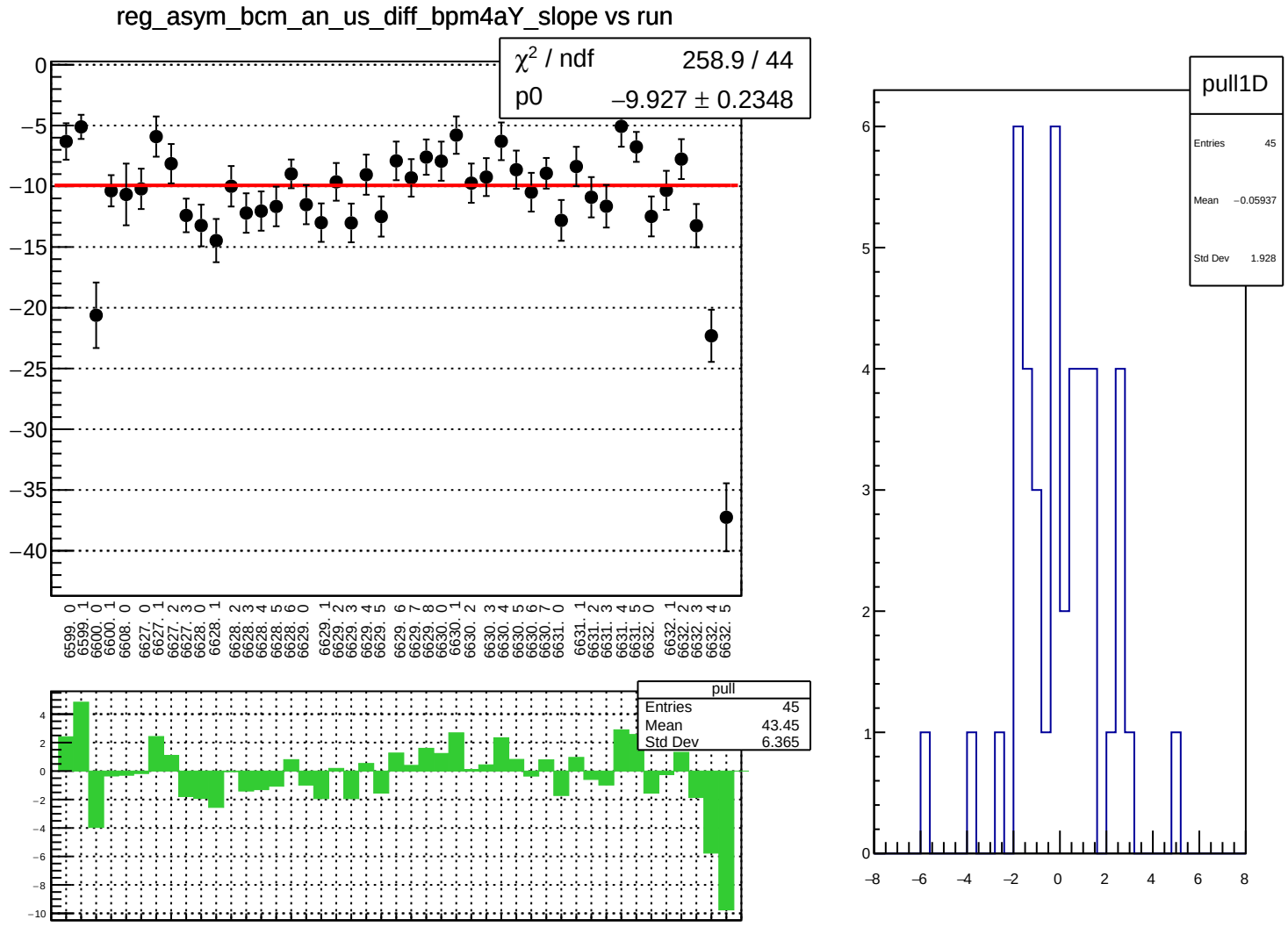

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 2434 / 44
p0 −54.44 ± 0.3659
pull
Entries 45
Mean 52.84
Std Dev 0
pull1D
Entries 45
Mean −0.06395
Std Dev 2.361

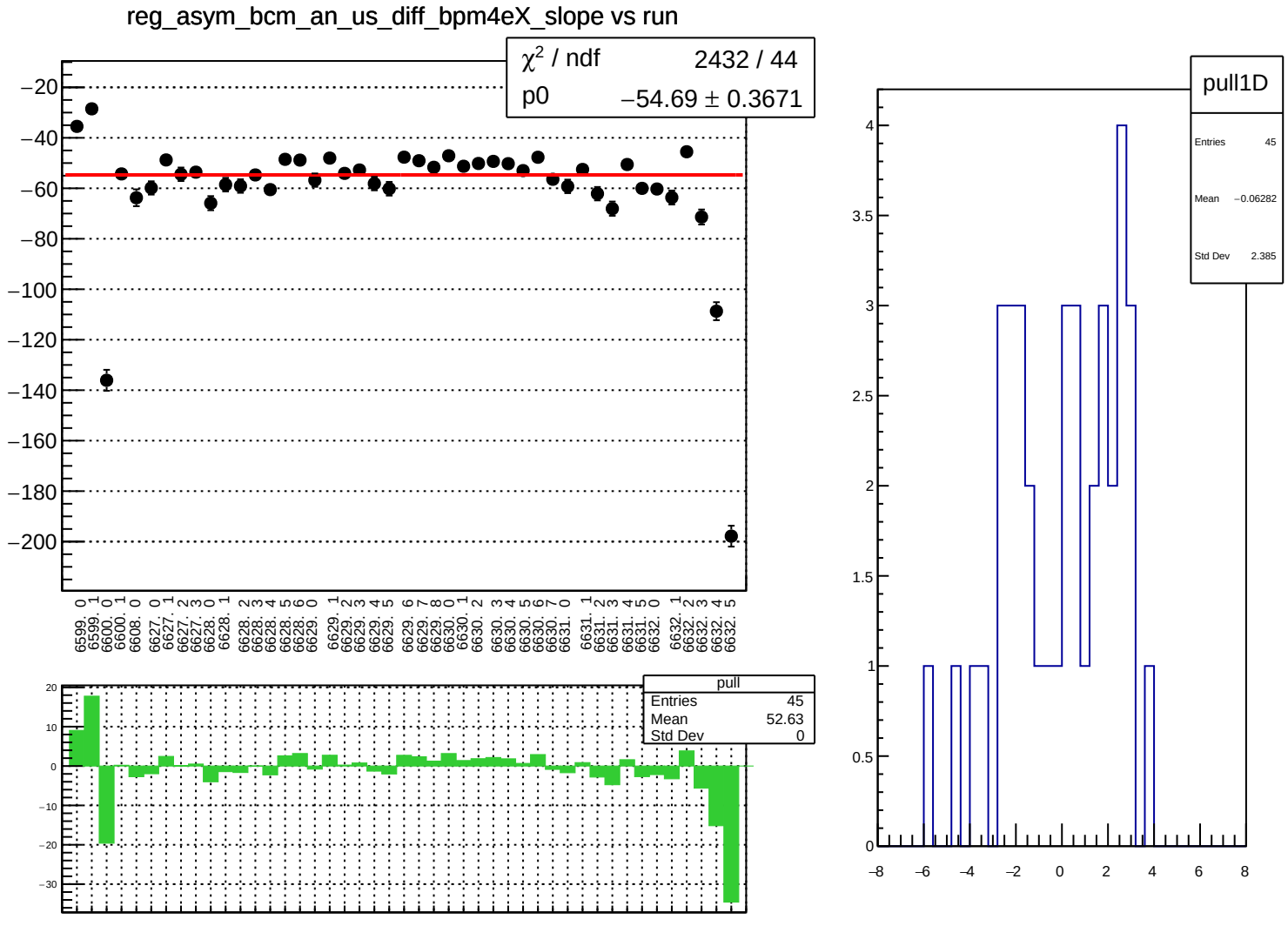

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 256.7 / 44
p0 11.45 ± 0.2787
pull
Entries 45
Mean 38.63
Std Dev 11.63

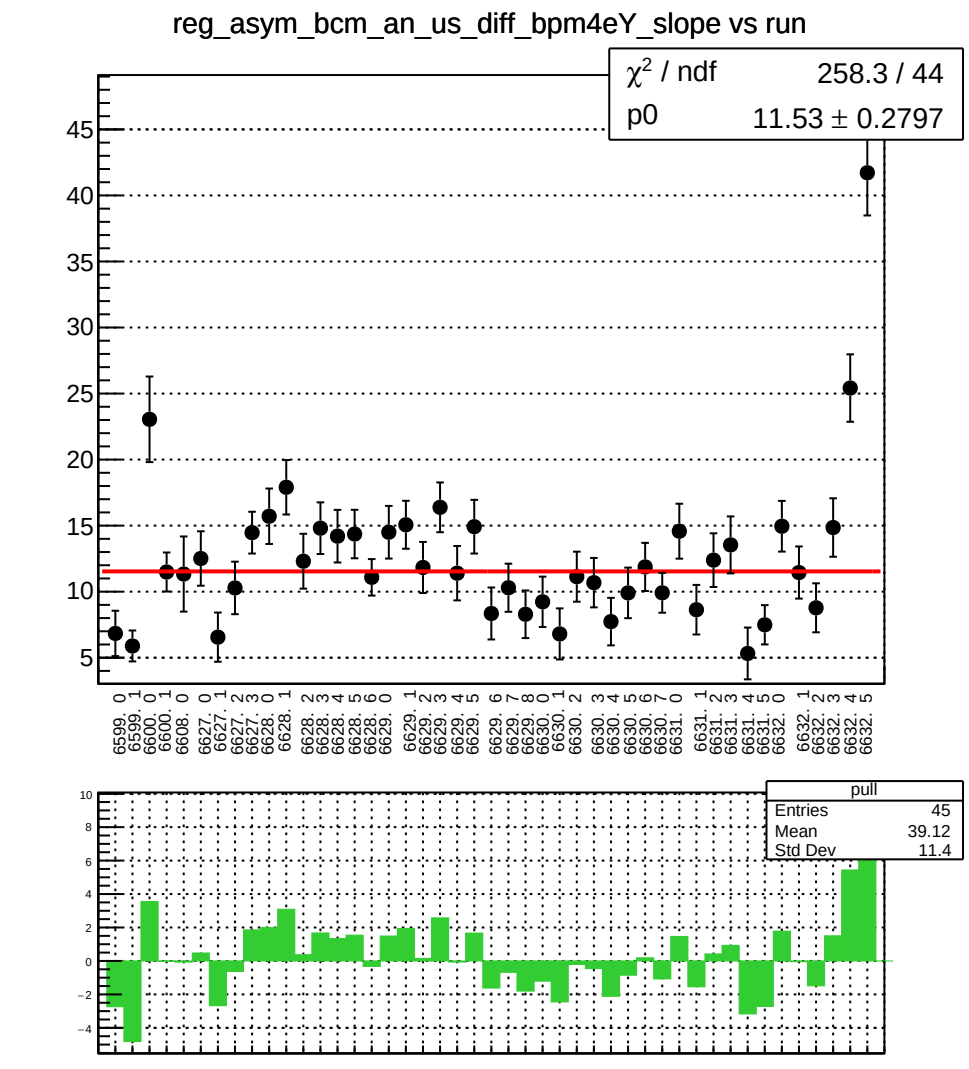

pull1D
Entries 45
Mean 0.06213
Std Dev 1.962

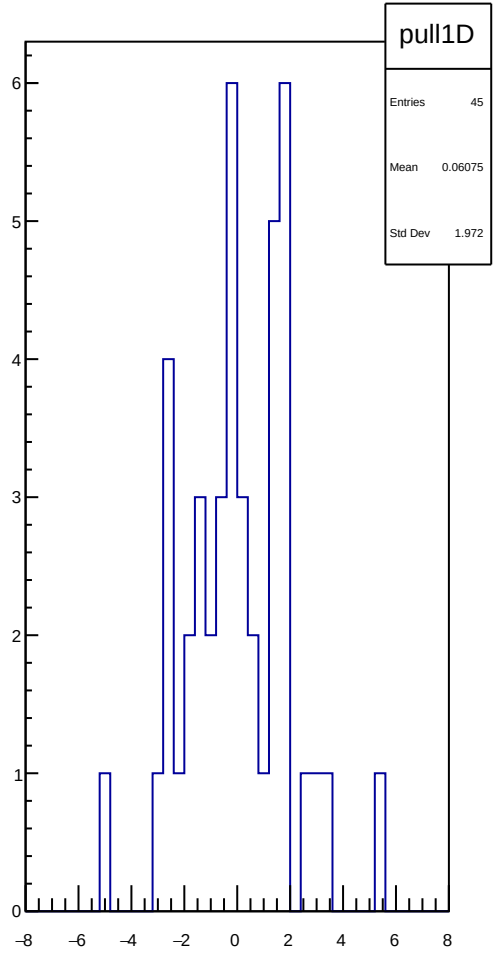

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 87.66 / 44
p0 −0.3719 ± 0.01489
pull
Entries 45
Mean 51.36
Std Dev 0
pull1D
Entries 45
Mean −0.1567
Std Dev 1.387

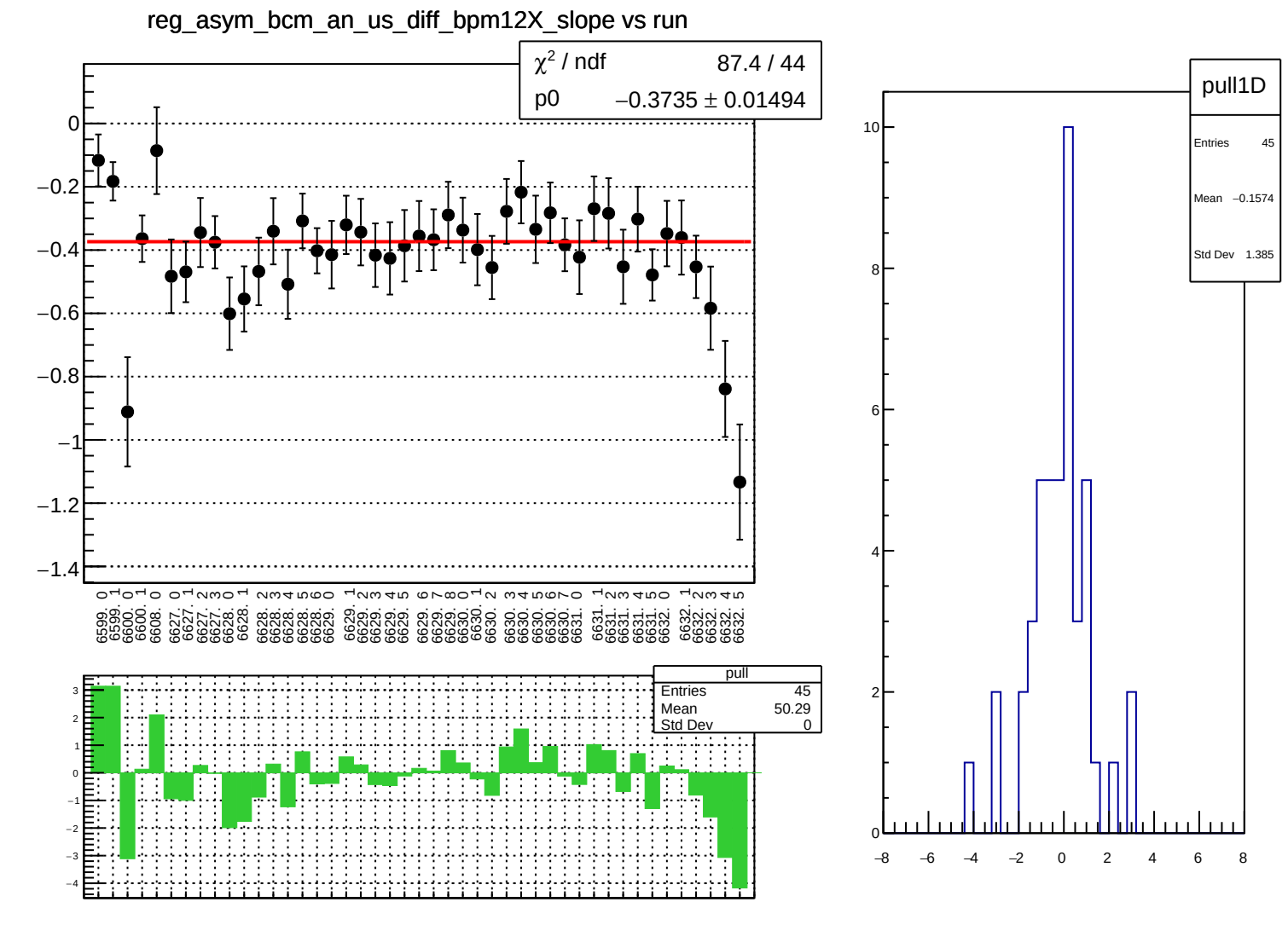

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 2489 / 44
p0 53.58 ± 0.3562
pull
Entries 45
Mean 51.95
Std Dev 0
pull1D
Entries 45
Mean 0.04241
Std Dev 2.398

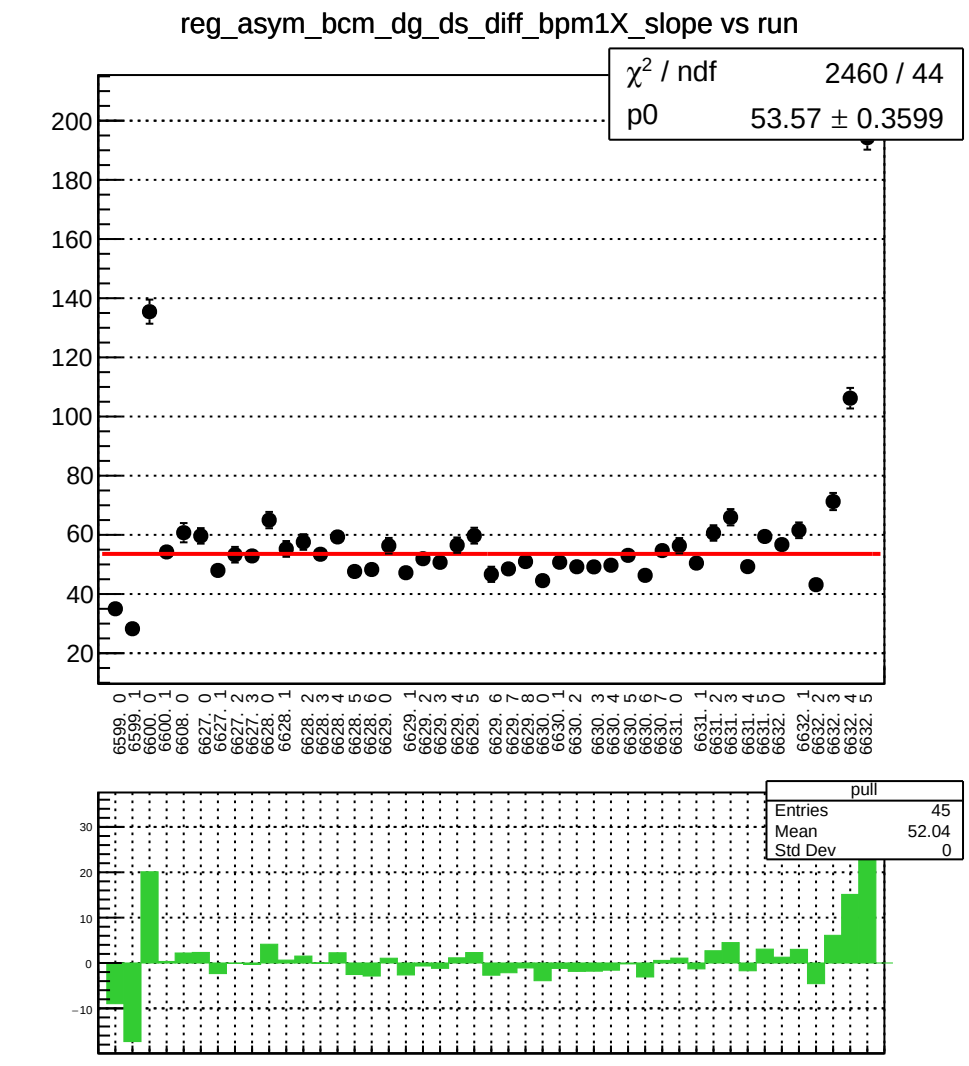

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 258.9 / 44
p0 −9.927 ± 0.2348
pull
Entries 45
Mean 43.45
Std Dev 6.365
pull1D
Entries 45
Mean −0.05937
Std Dev 1.928

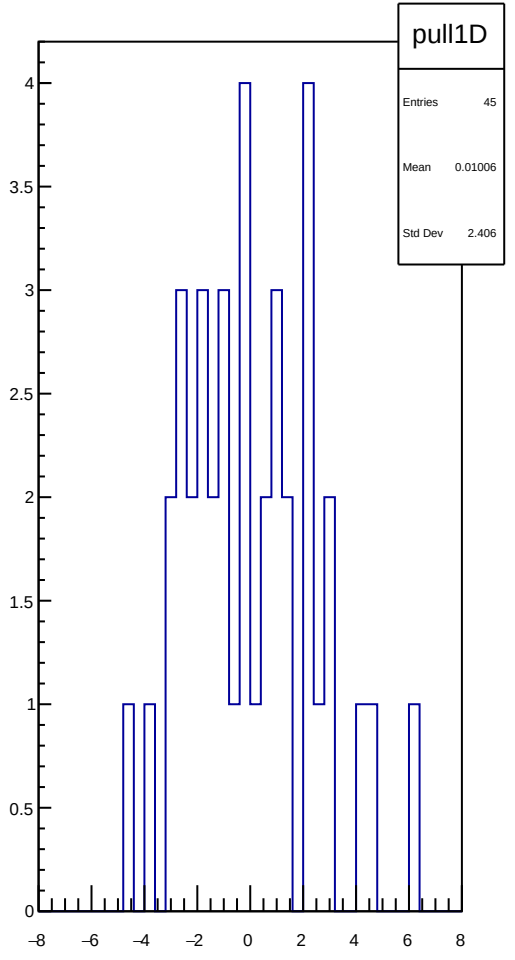

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 2432 / 44
p0 −54.69 ± 0.3671
pull
Entries 45
Mean 52.63
Std Dev 0
pull1D
Entries 45
Mean −0.06282
Std Dev 2.385

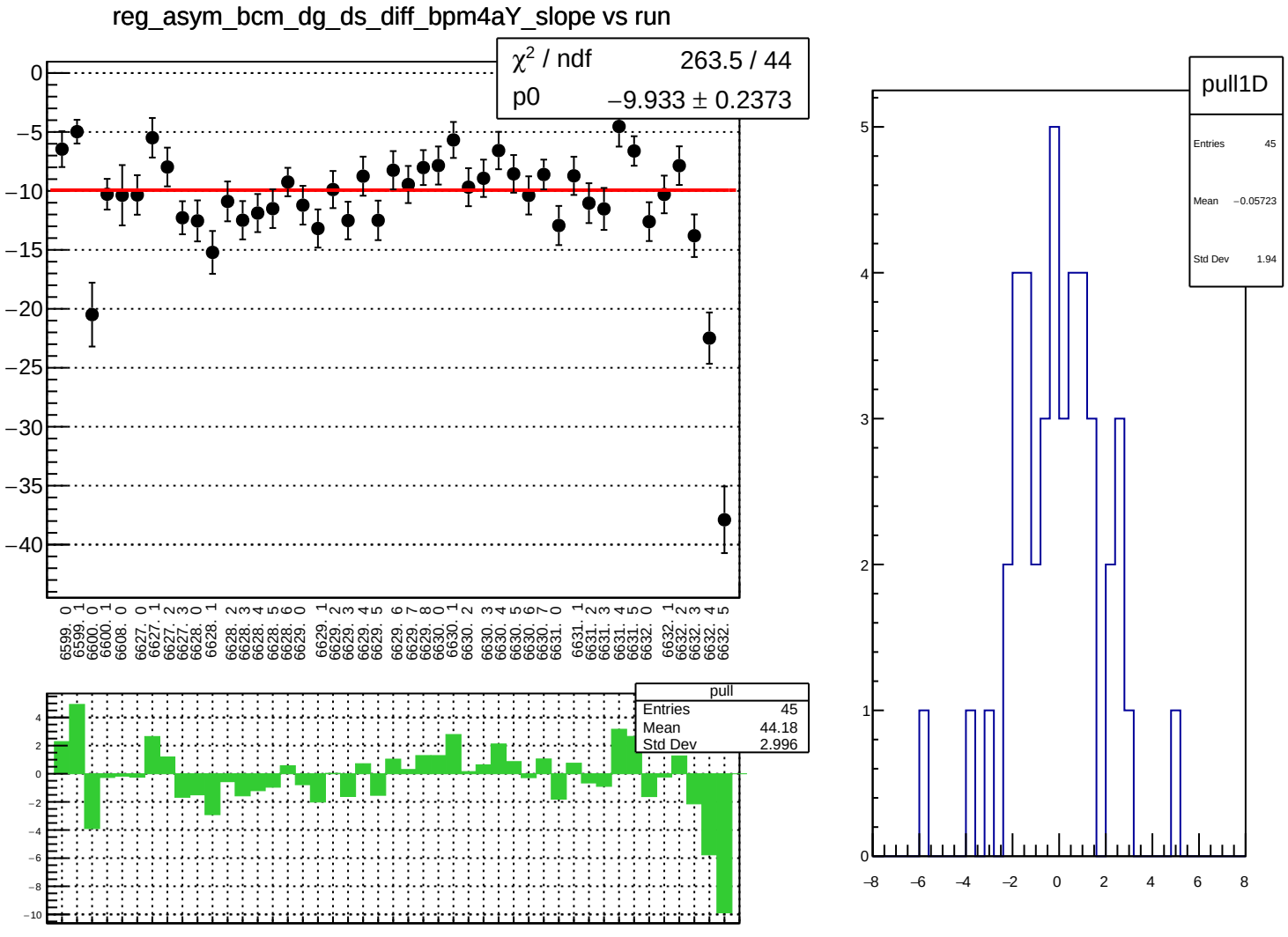

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 258.3 / 44
p0 11.53 ± 0.2797
pull
Entries 45
Mean 39.12
Std Dev 11.4

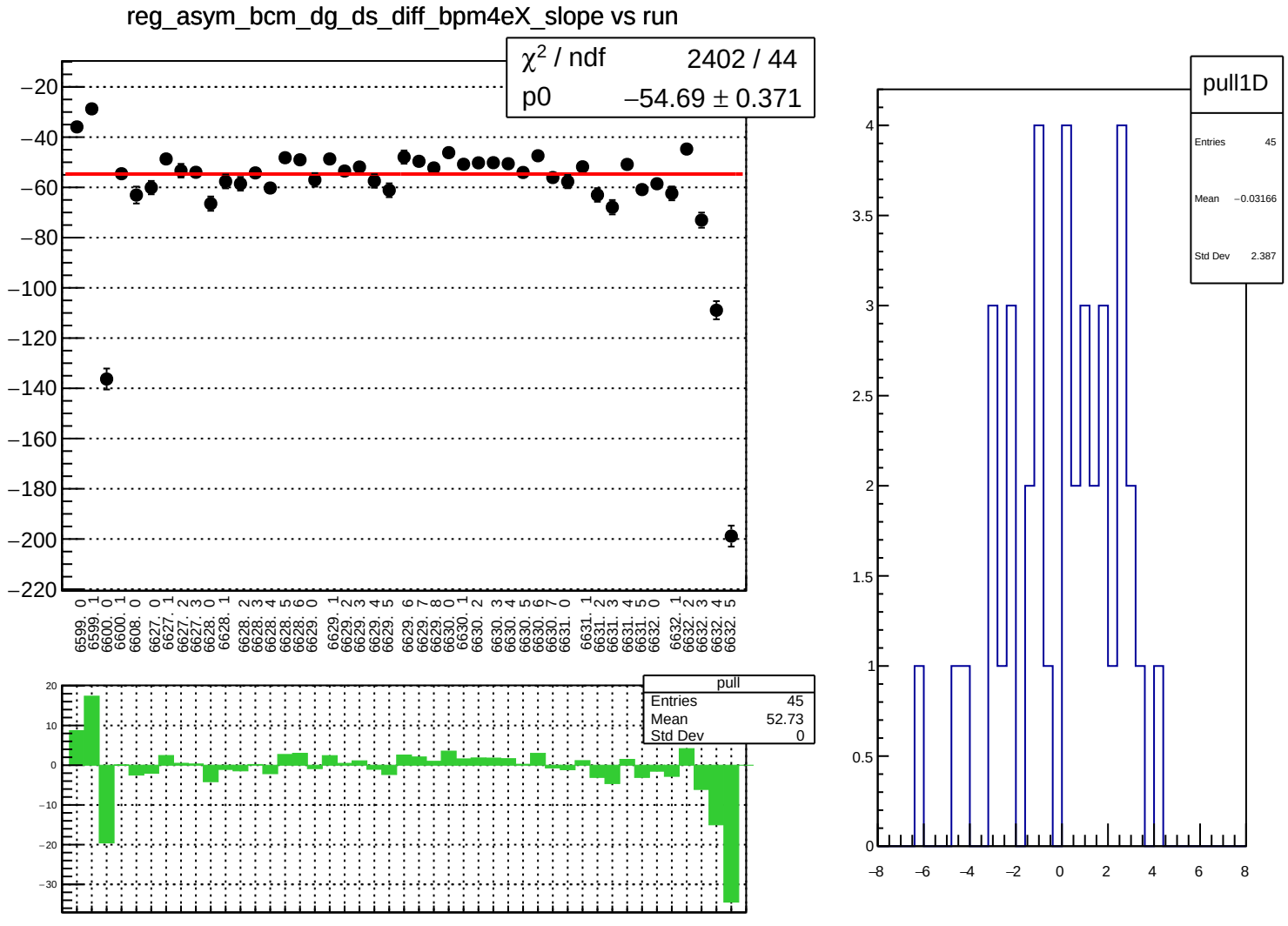

pull1D
Entries 45
Mean 0.06075
Std Dev 1.972

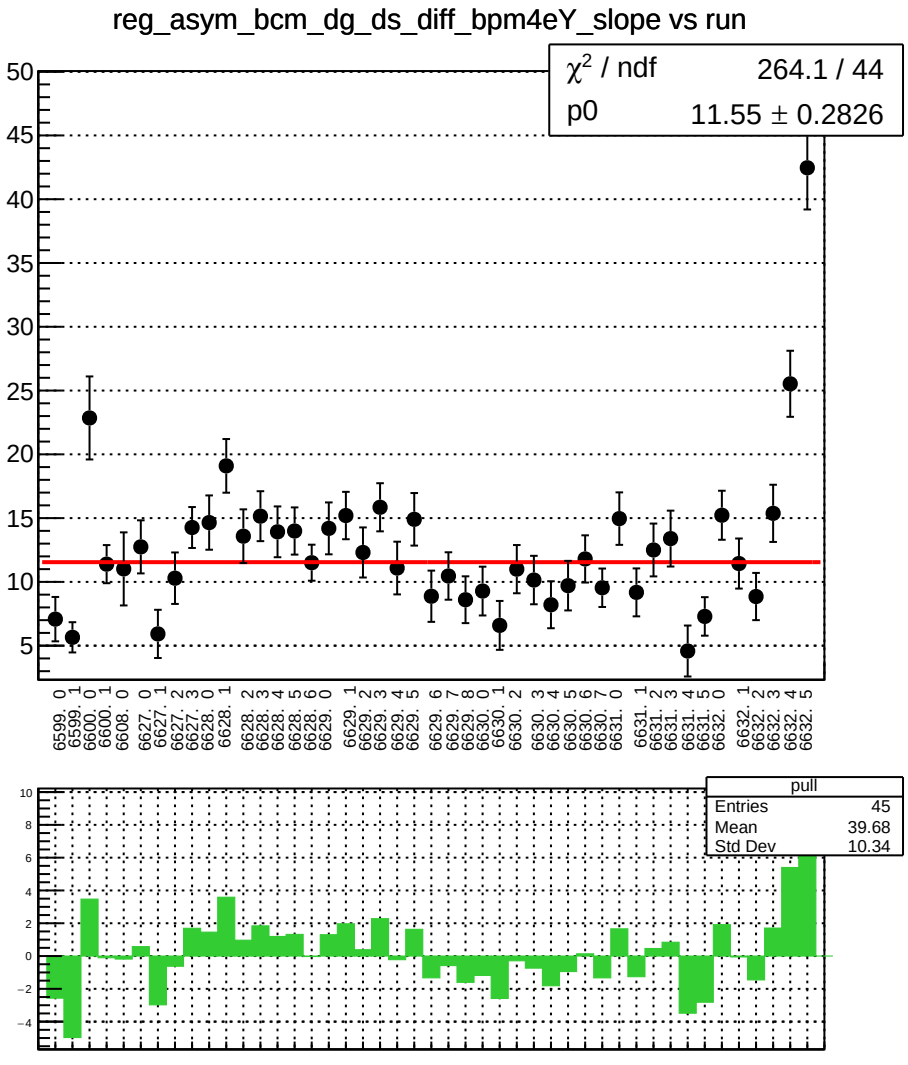

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 87.4 / 44
p0 −0.3735 ± 0.01494
pull
Entries 45
Mean 50.29
Std Dev 0
pull1D
Entries 45
Mean −0.1574
Std Dev 1.385

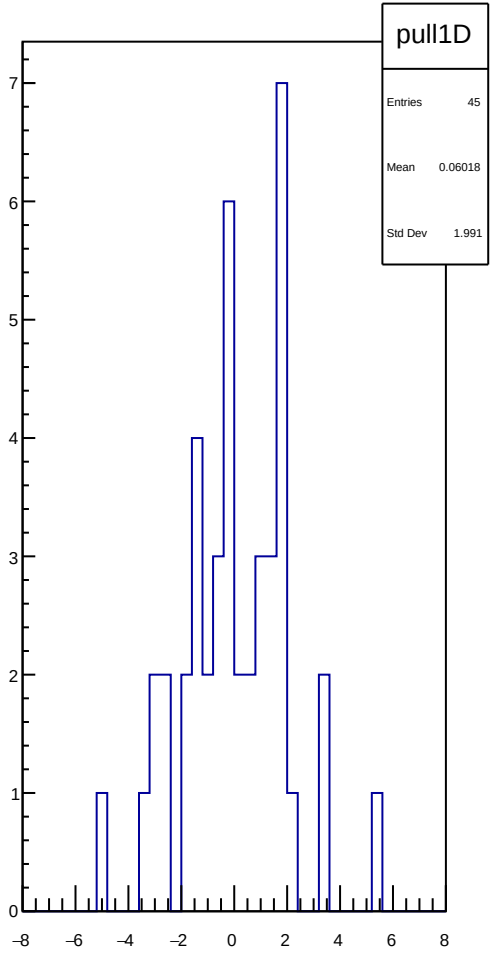

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 2460 / 44
p0 53.57 ± 0.3599
pull
Entries 45
Mean 52.04
Std Dev 0

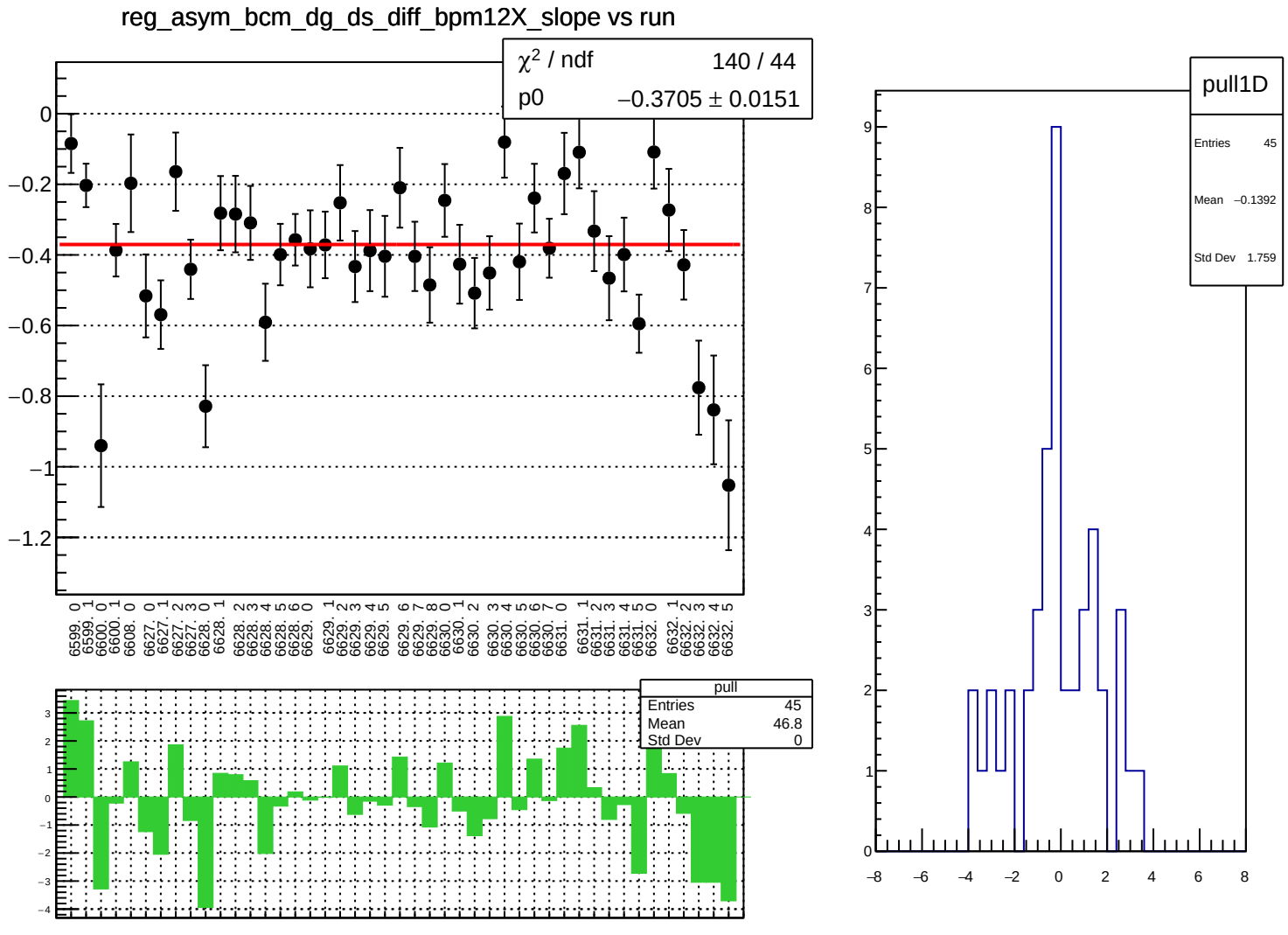

pull1D
Entries 45
Mean 0.01006
Std Dev 2.406

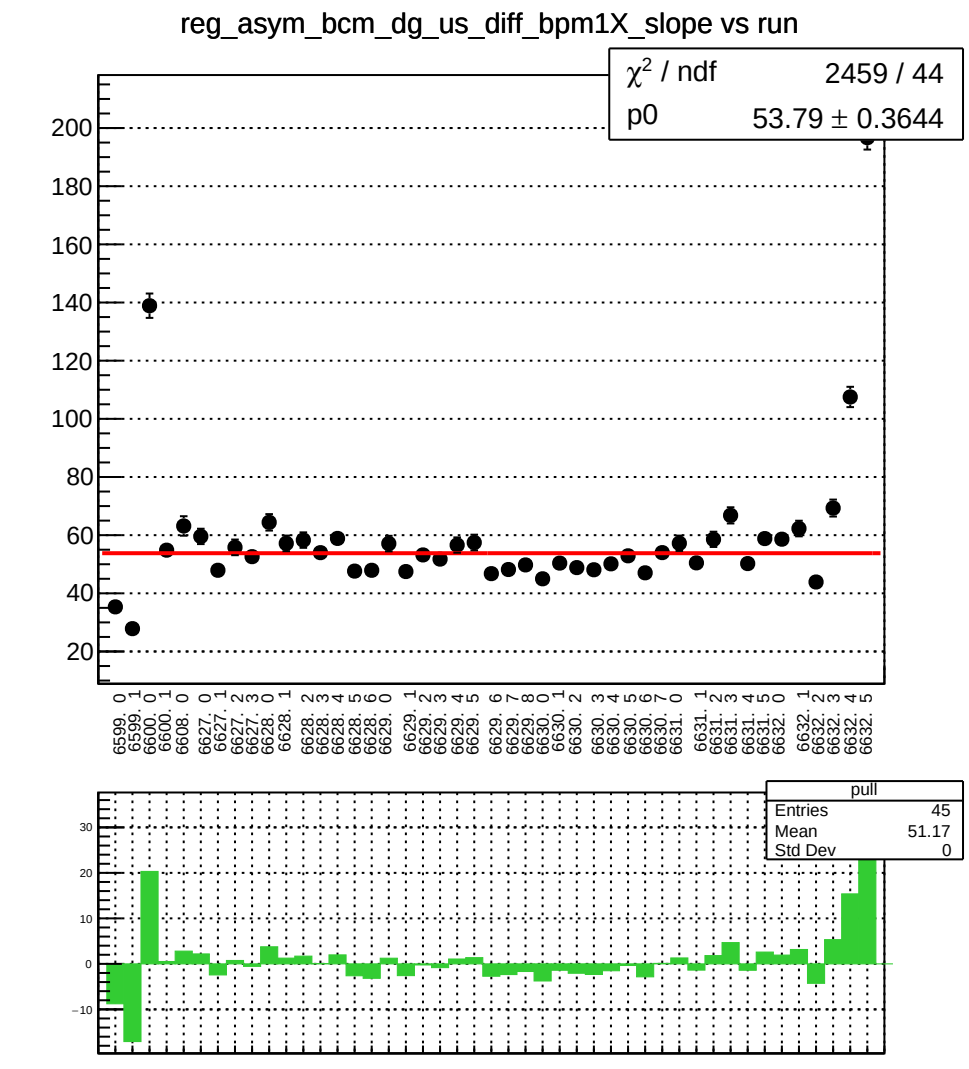

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 263.5 / 44
p0 −9.933 ± 0.2373
pull
Entries 45
Mean 44.18
Std Dev 2.996
pull1D
Entries 45
Mean −0.05723
Std Dev 1.94

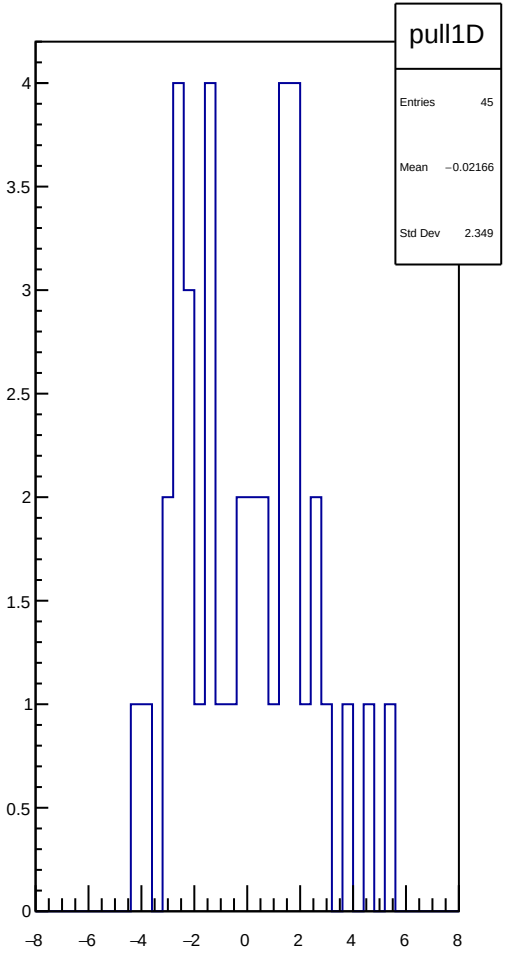

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 2402 / 44
p0 −54.69 ± 0.371
pull
Entries 45
Mean 52.73
Std Dev 0
pull1D
Entries 45
Mean −0.03166
Std Dev 2.387

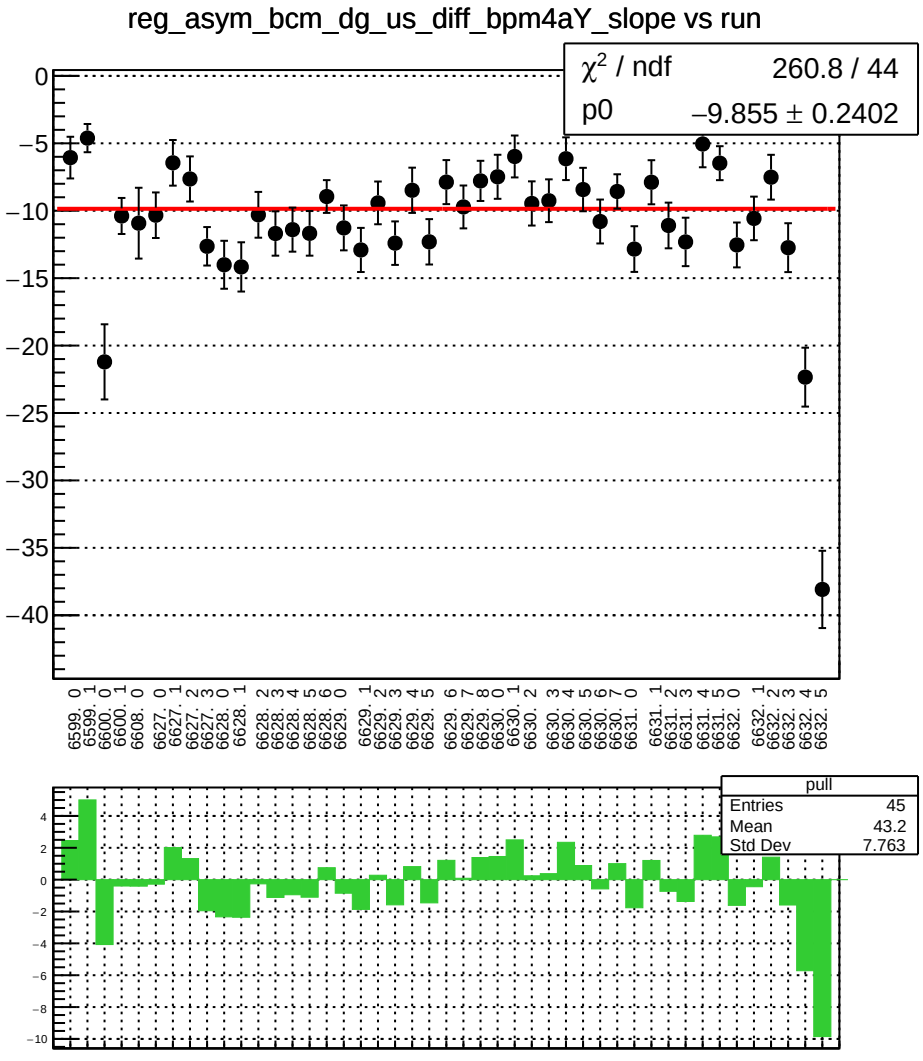

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 264.1 / 44
p0 11.55 ± 0.2826
pull
Entries 45
Mean 39.68
Std Dev 10.34

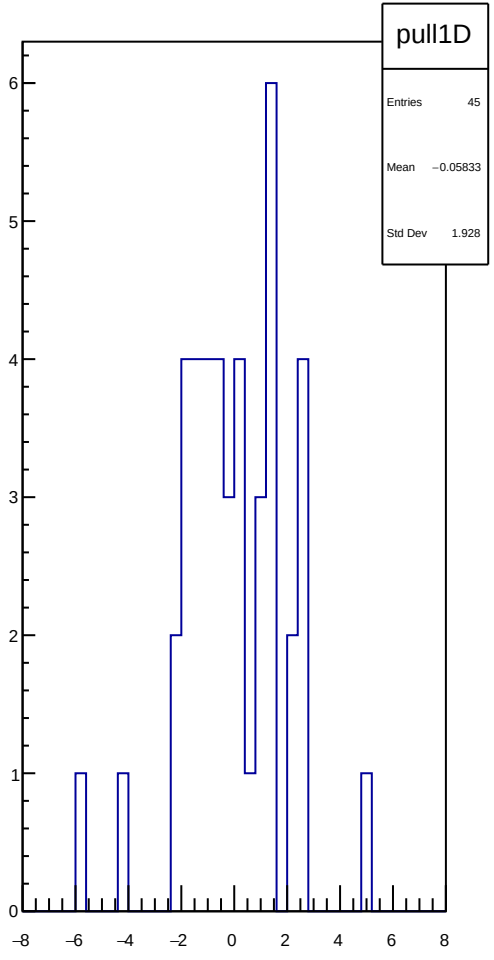

pull1D
Entries 45
Mean 0.06018
Std Dev 1.991

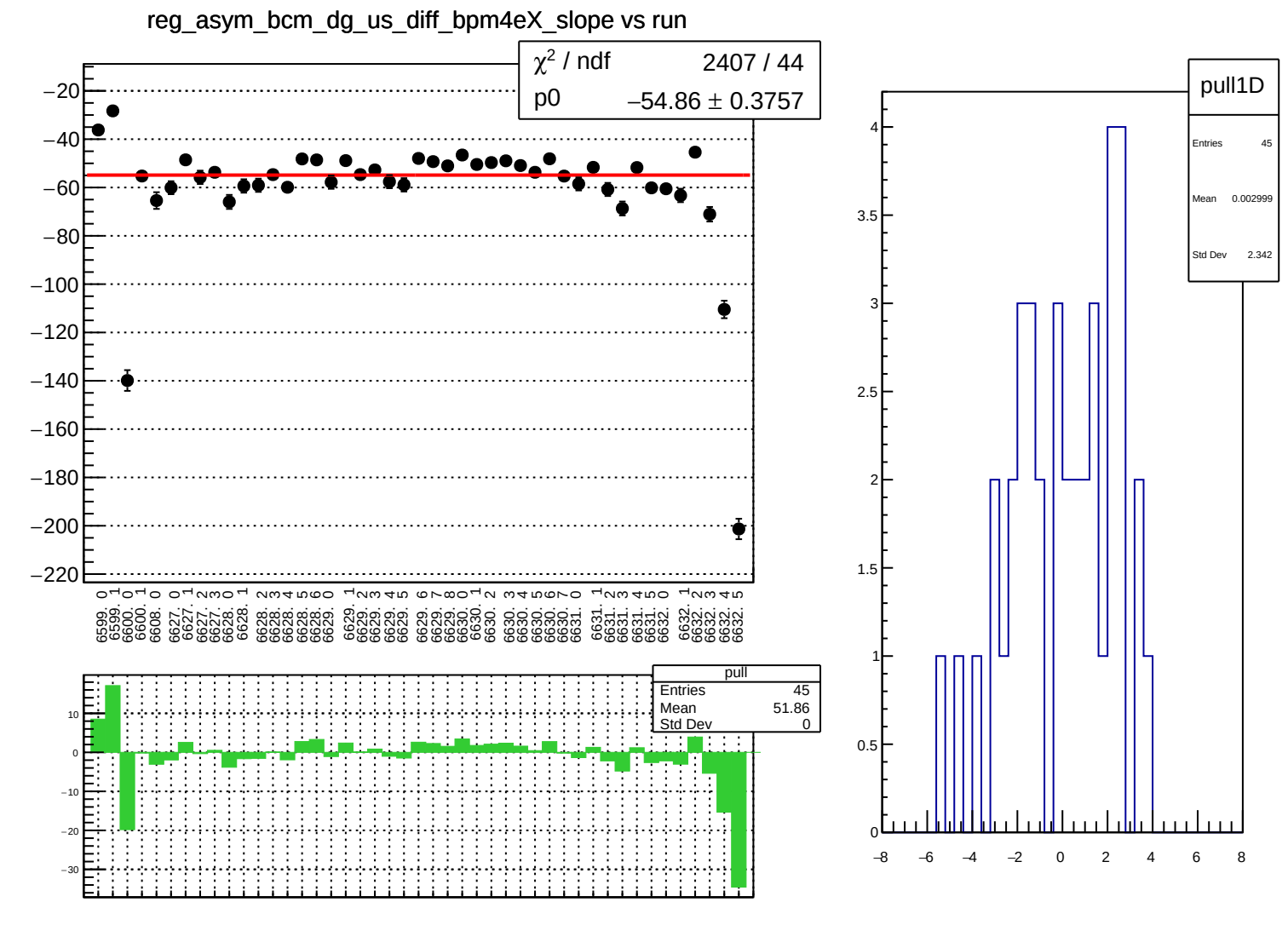

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 140 / 44
p0 −0.3705 ± 0.0151
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 46.8
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 45
Mean −0.1392
Std Dev 1.759
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

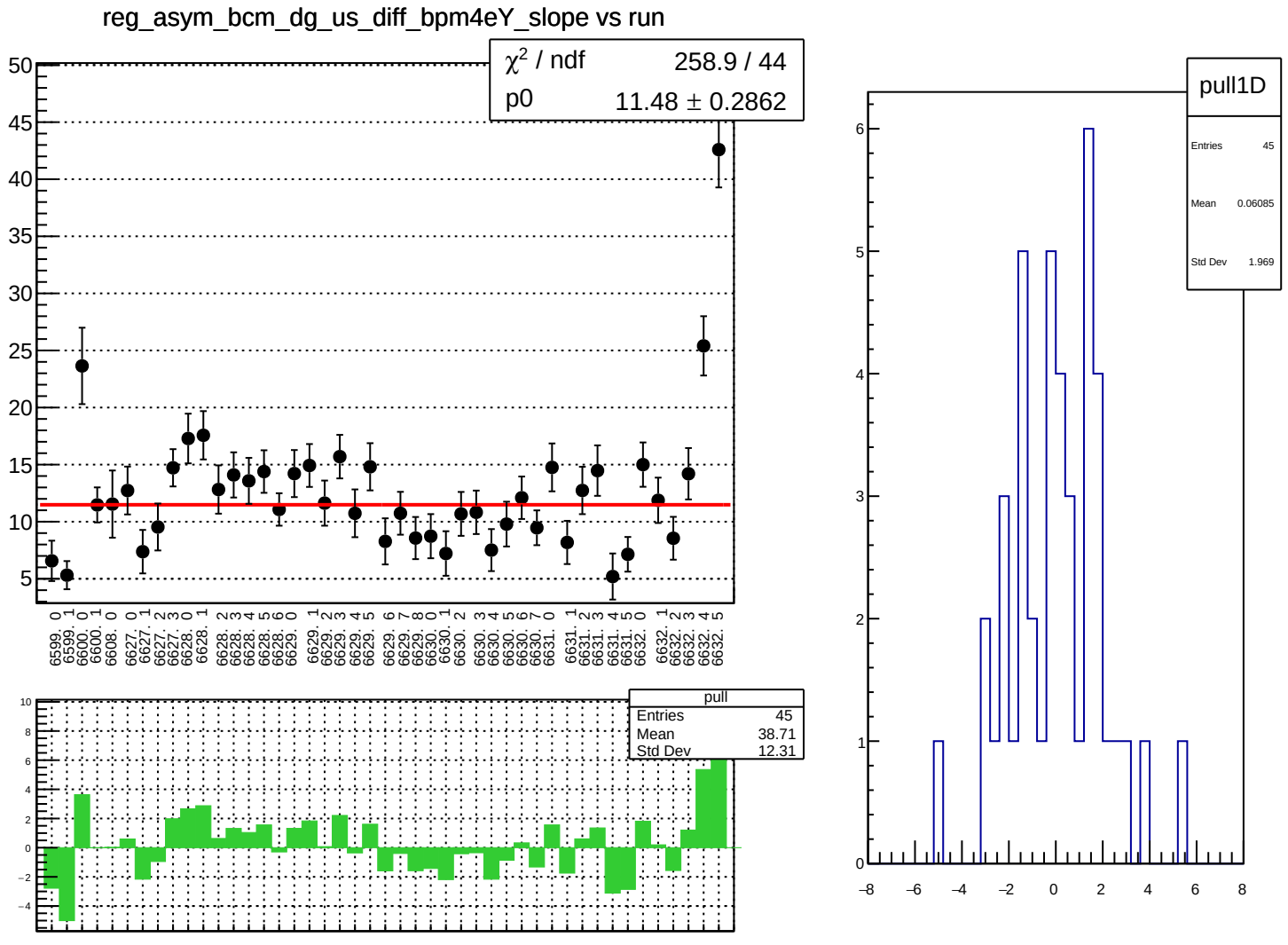

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 2459 / 44
p0 53.79 ± 0.3644
pull
Entries 45
Mean 51.17
Std Dev 0

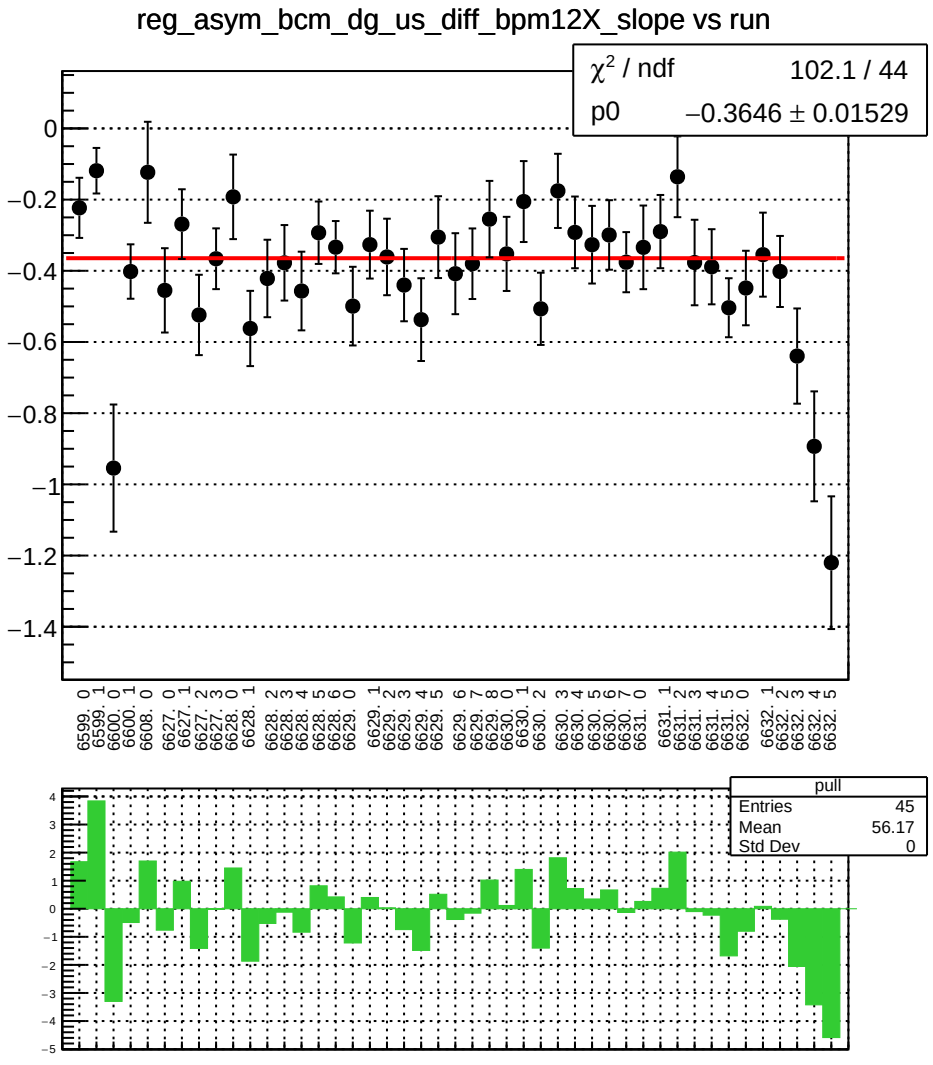

pull1D
Entries 45
Mean −0.02166
Std Dev 2.349

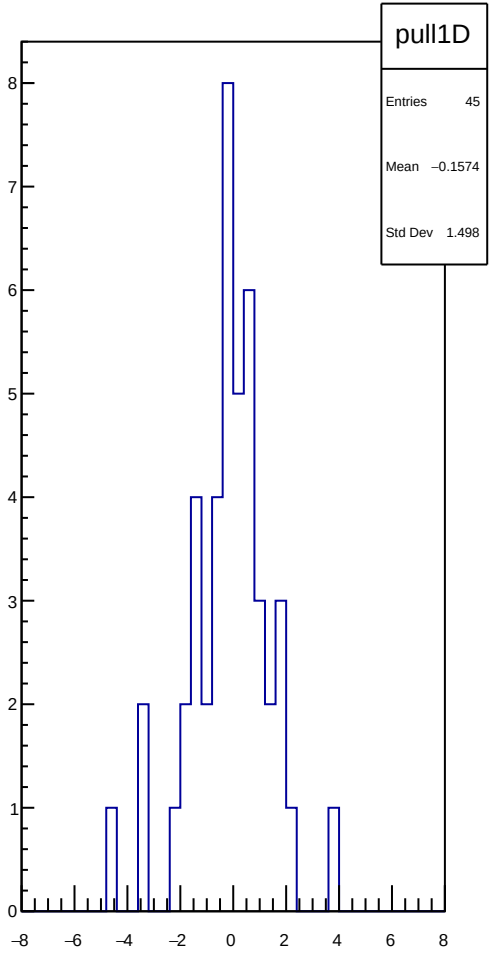

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 260.8 / 44
p0 −9.855 ± 0.2402
pull
Entries 45
Mean 43.2
Std Dev 7.763

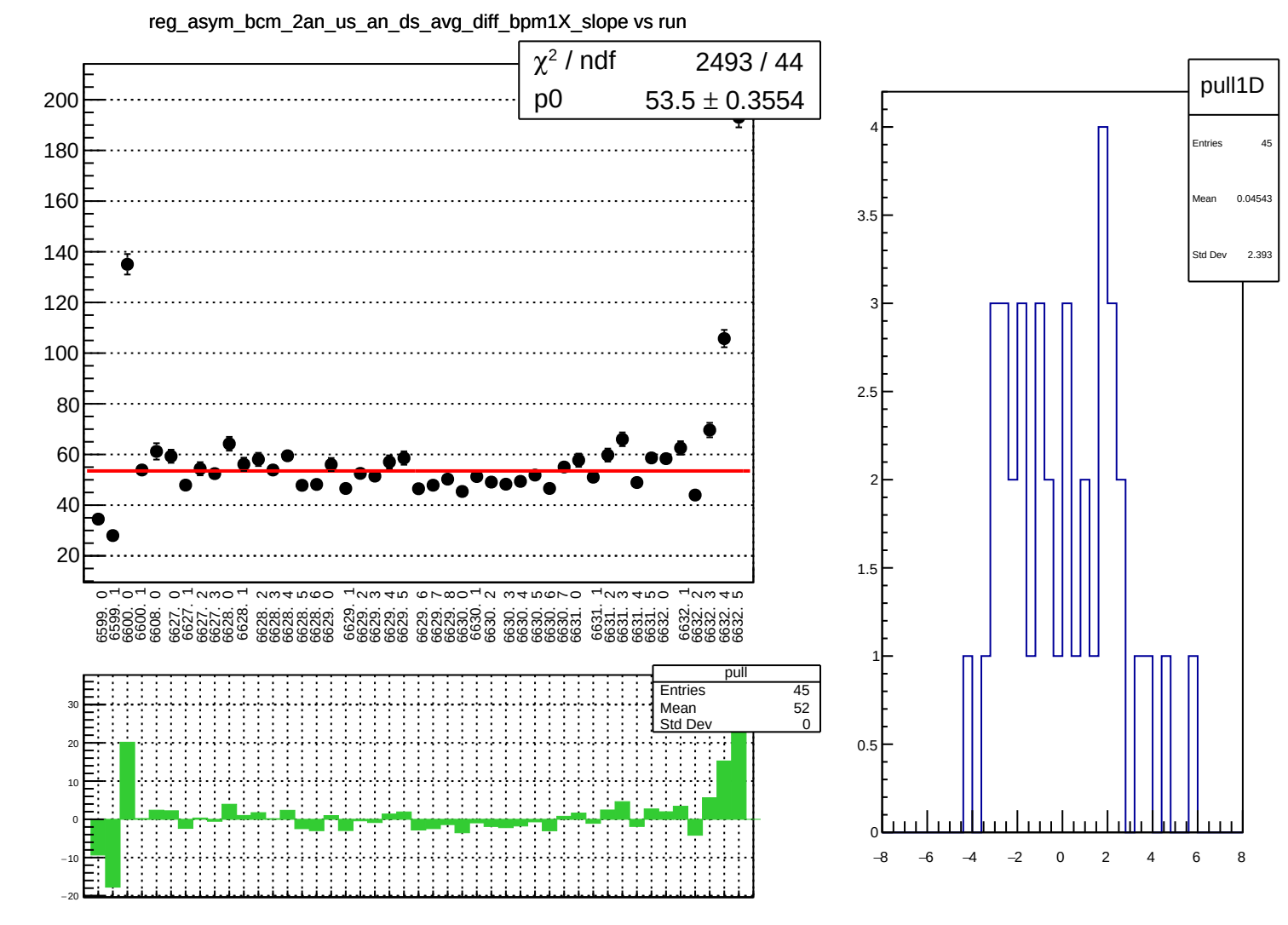

pull1D
Entries 45
Mean −0.05833
Std Dev 1.928

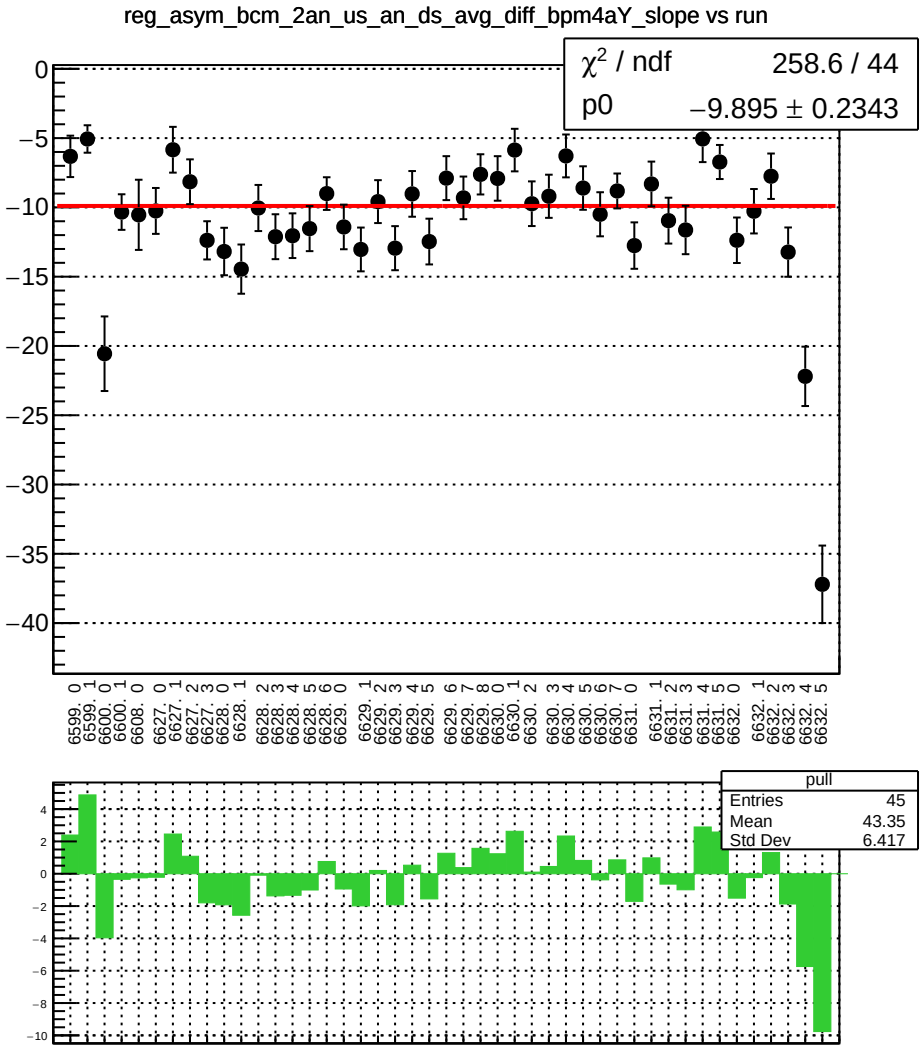

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 2407 / 44
p0 −54.86 ± 0.3757
pull
Entries 45
Mean 51.86
Std Dev 0
pull1D
Entries 45
Mean 0.002999
Std Dev 2.342

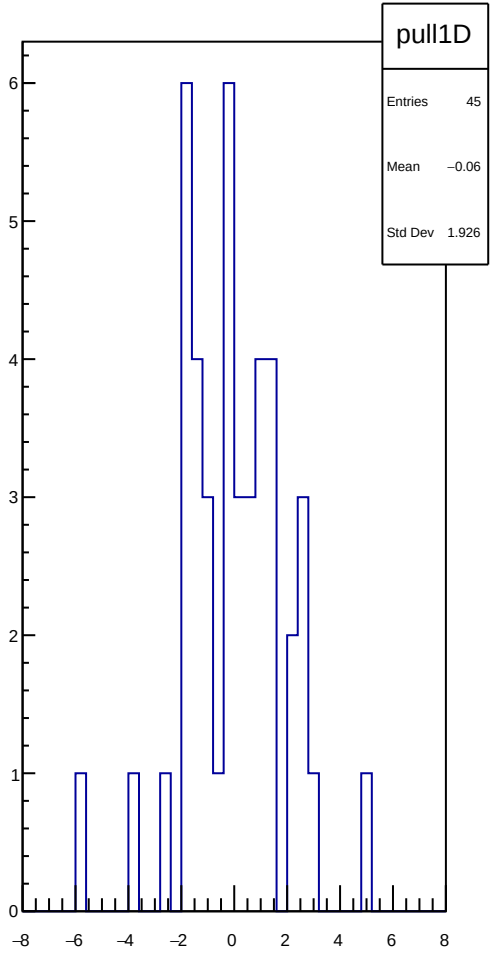

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 258.9 / 44
p0 11.48 ± 0.2862
pull
Entries 45
Mean 38.71
Std Dev 12.31
pull1D
Entries 45
Mean 0.06085
Std Dev 1.969

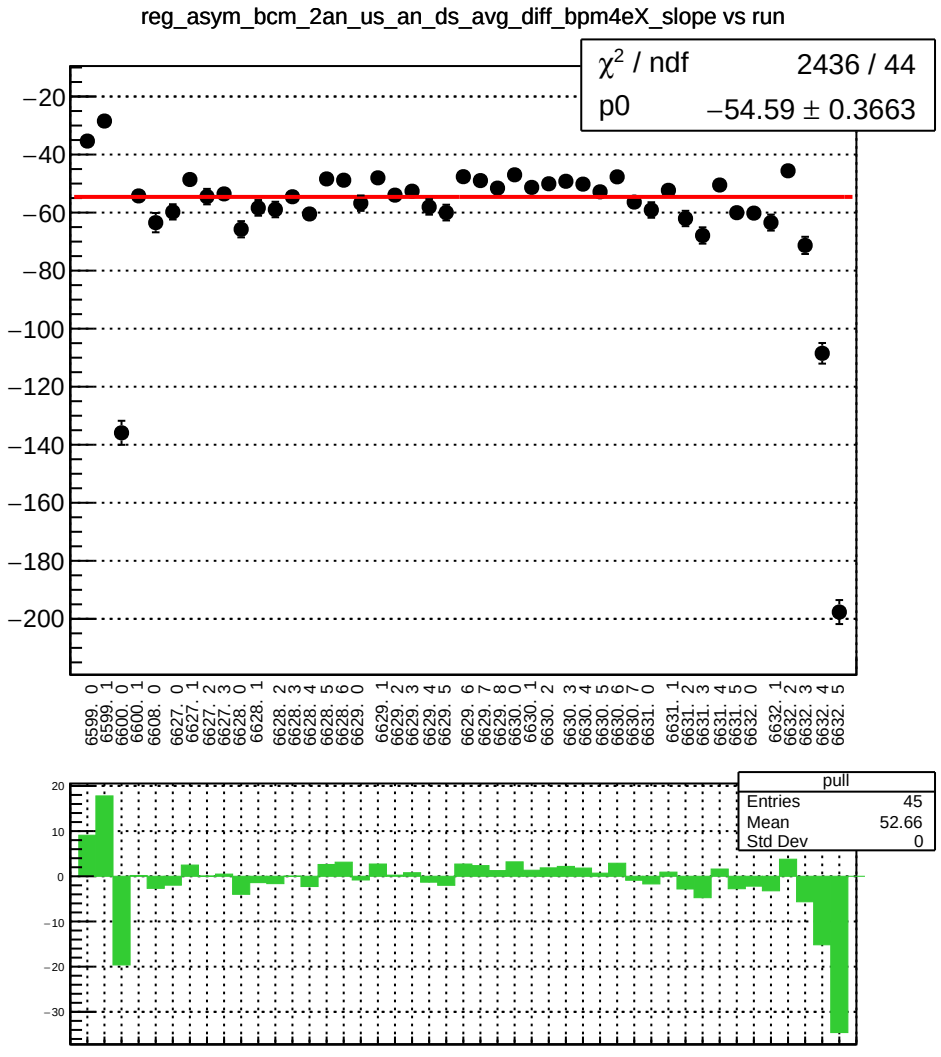

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 102.1 / 44
p0 −0.3646 ± 0.01529
pull
Entries 45
Mean 56.17
Std Dev 0

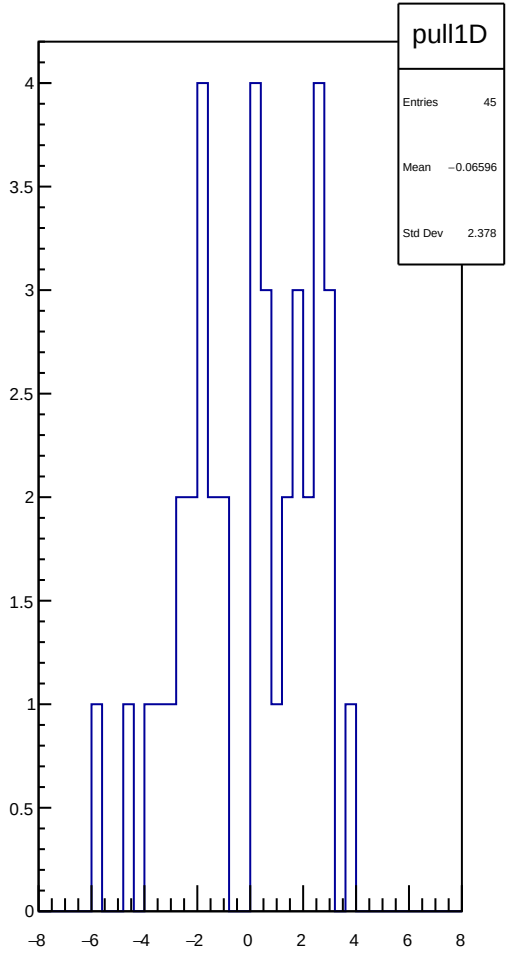

pull1D
Entries 45
Mean −0.1574
Std Dev 1.498

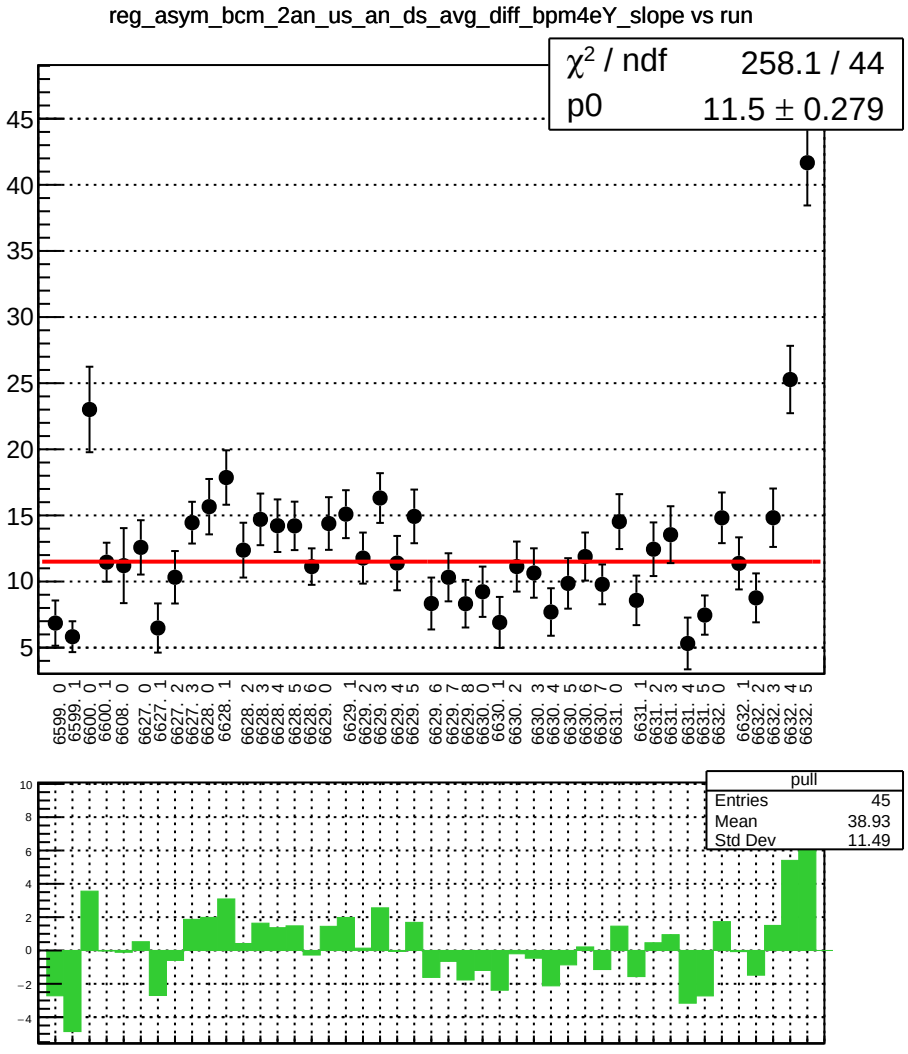

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 2493 / 44
p0 53.5 ± 0.3554
pull
Entries 45
Mean 52
Std Dev 0
pull1D
Entries 45
Mean 0.04543
Std Dev 2.393

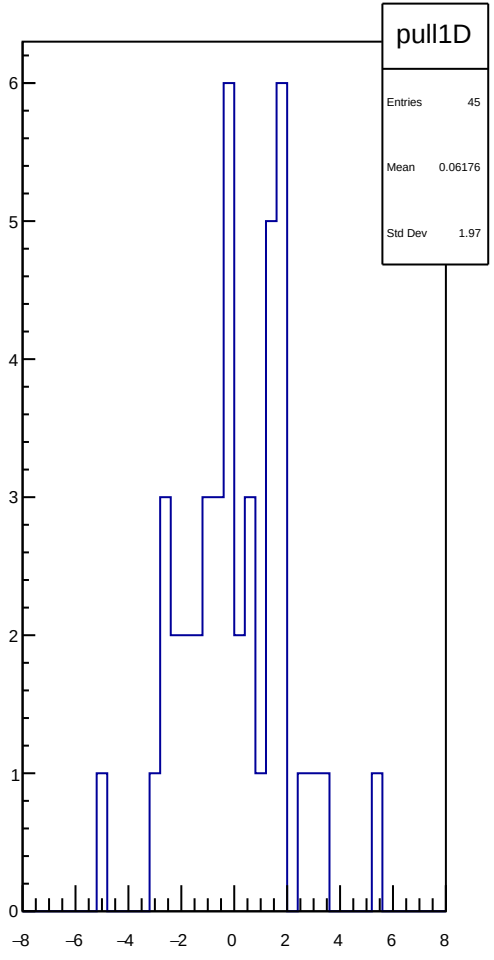

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 258.6 / 44
p0 −9.895 ± 0.2343
pull
Entries 45
Mean 43.35
Std Dev 6.417

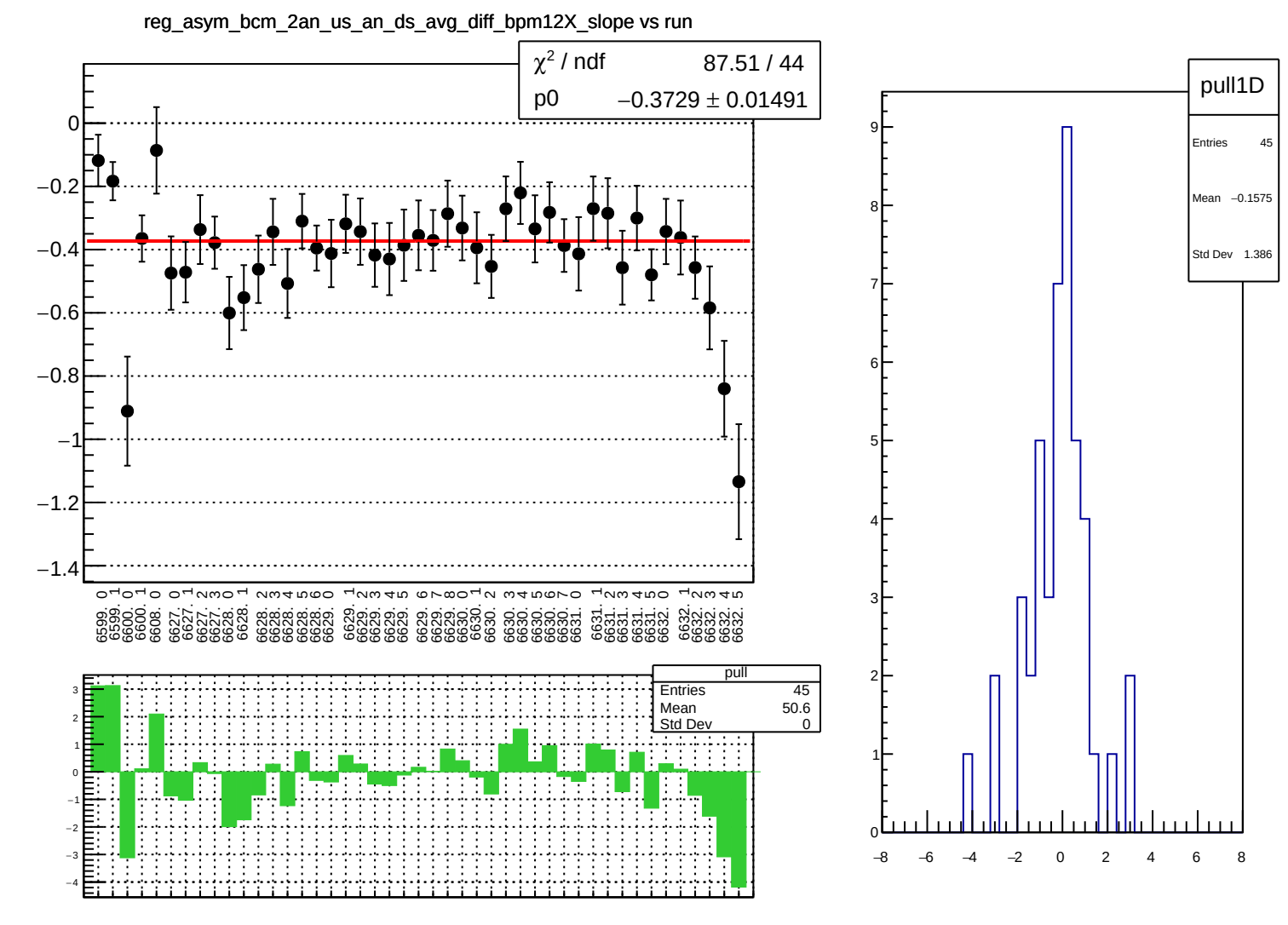

pull1D
Entries 45
Mean −0.06
Std Dev 1.926

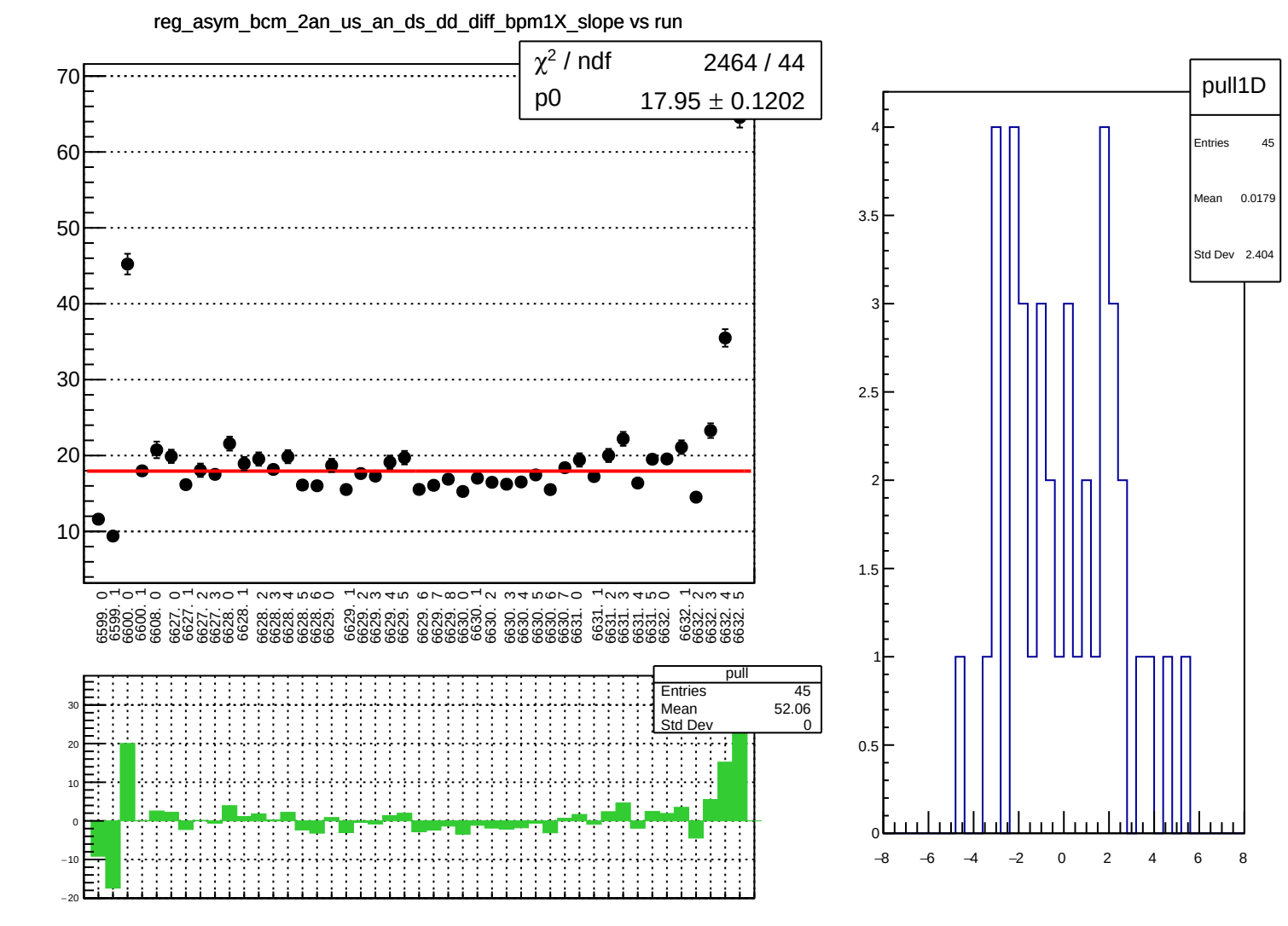

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 2436 / 44
p0 −54.59 ± 0.3663
pull
Entries 45
Mean 52.66
Std Dev 0

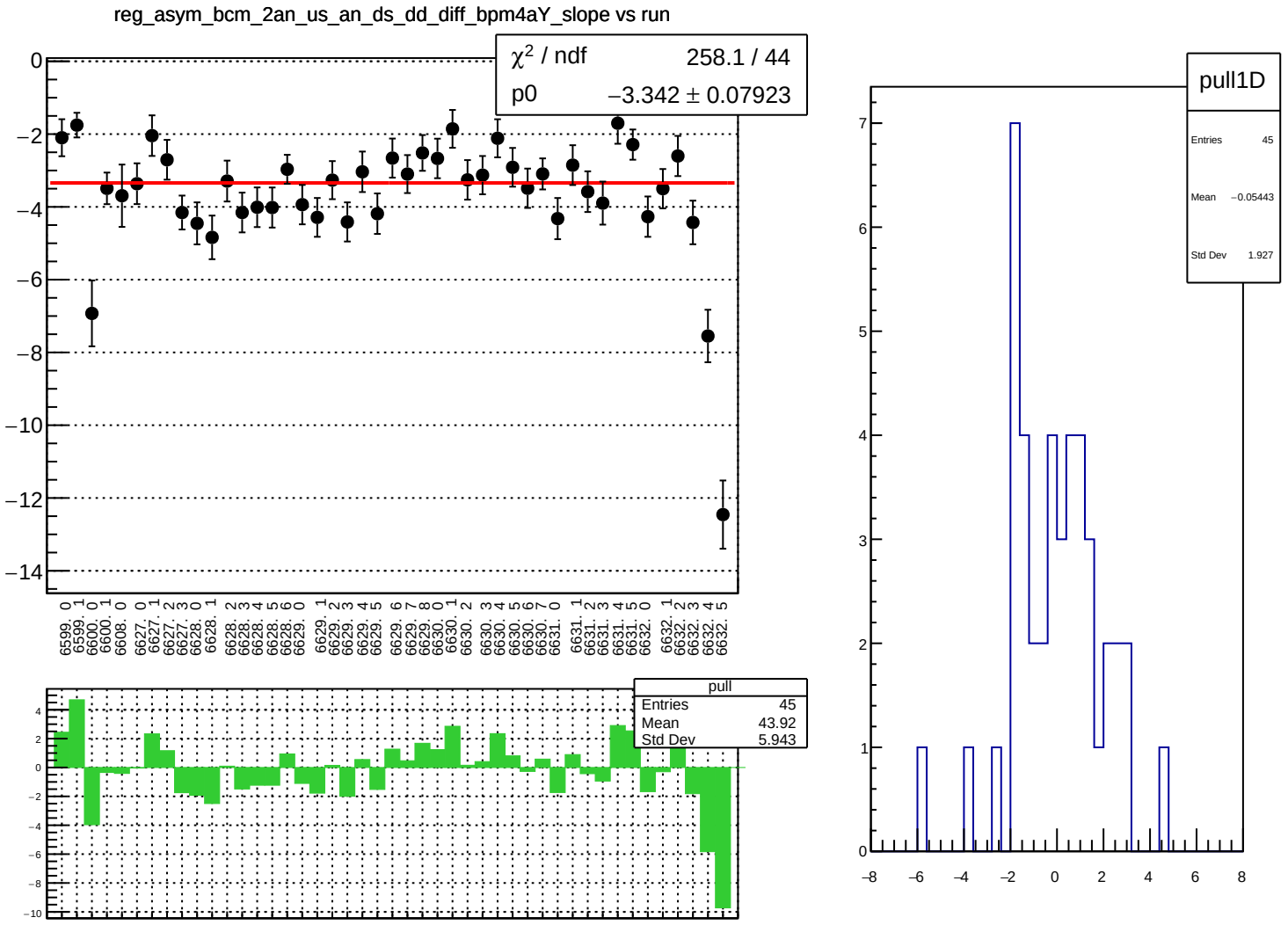

pull1D
Entries 45
Mean −0.06596
Std Dev 2.378

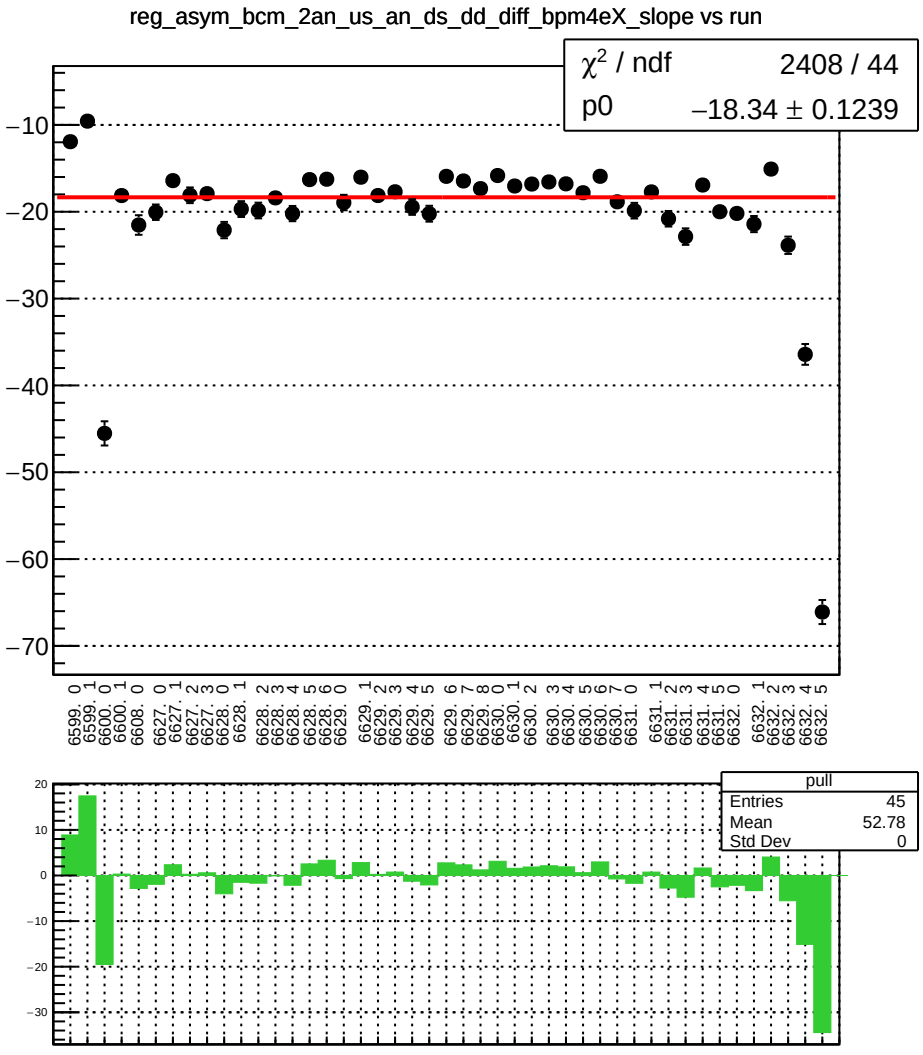

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 258.1 / 44
p0 11.5 ± 0.279
pull
Entries 45
Mean 38.93
Std Dev 11.49

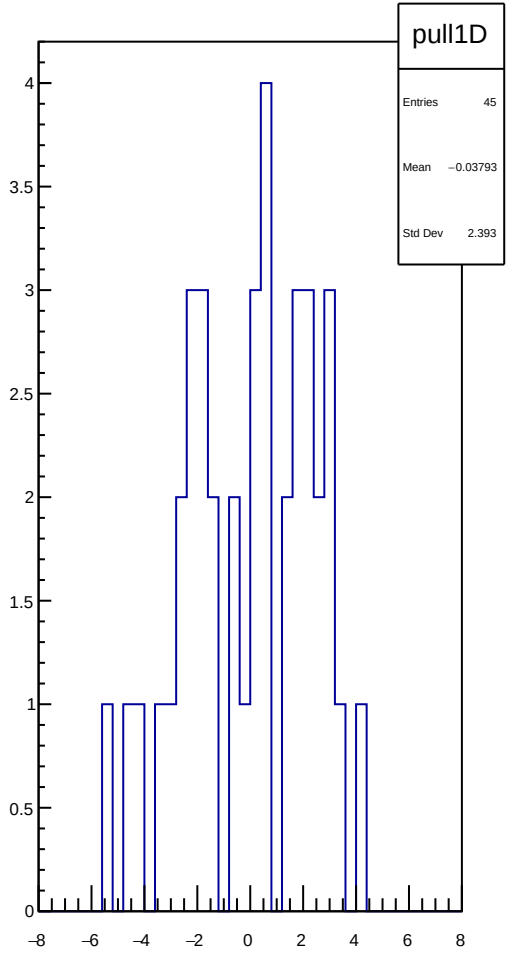

pull1D
Entries 45
Mean 0.06176
Std Dev 1.97

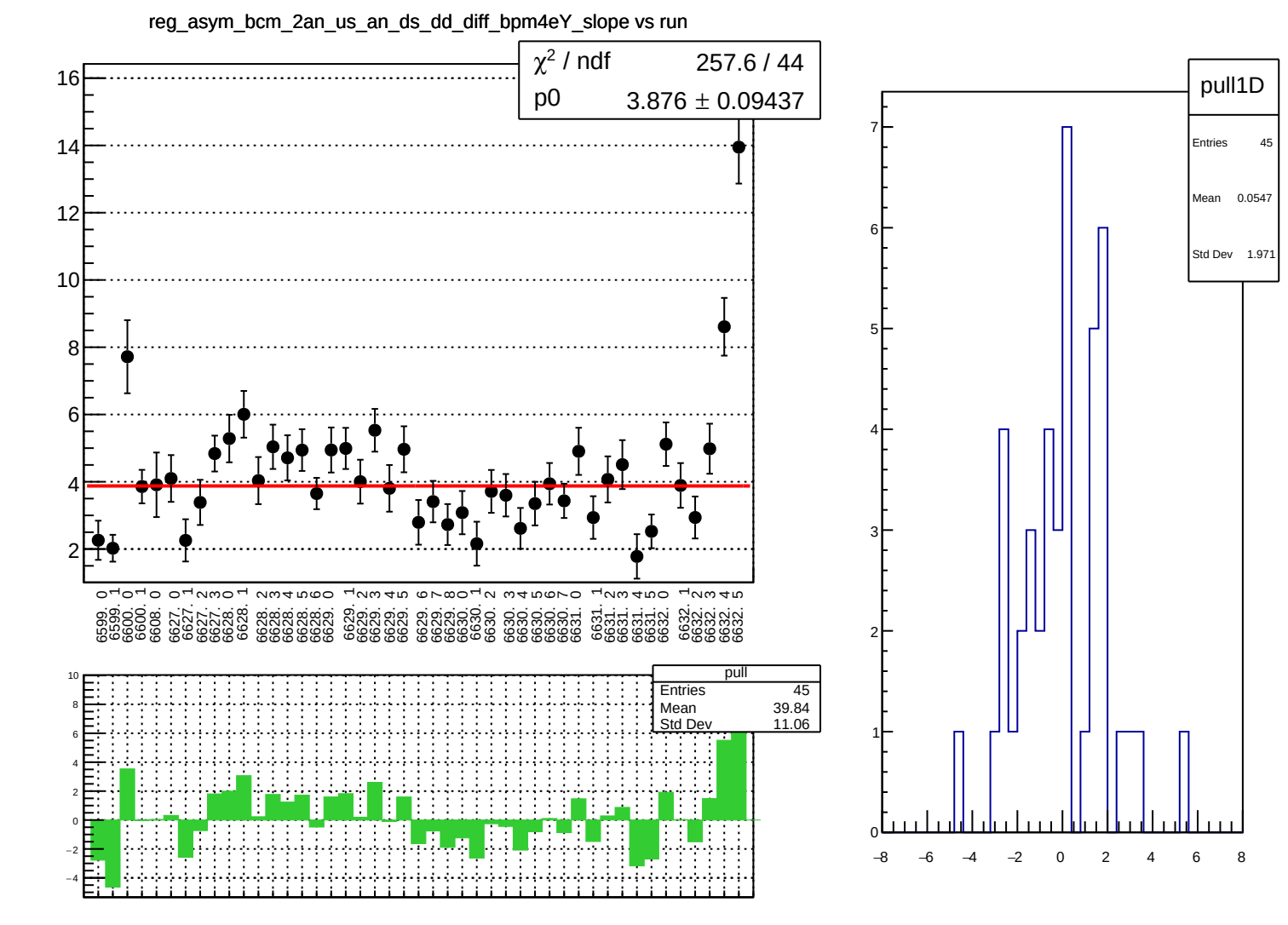

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 87.51 / 44
p0 −0.3729 ± 0.01491
pull
Entries 45
Mean 50.6
Std Dev 0
pull1D
Entries 45
Mean −0.1575
Std Dev 1.386

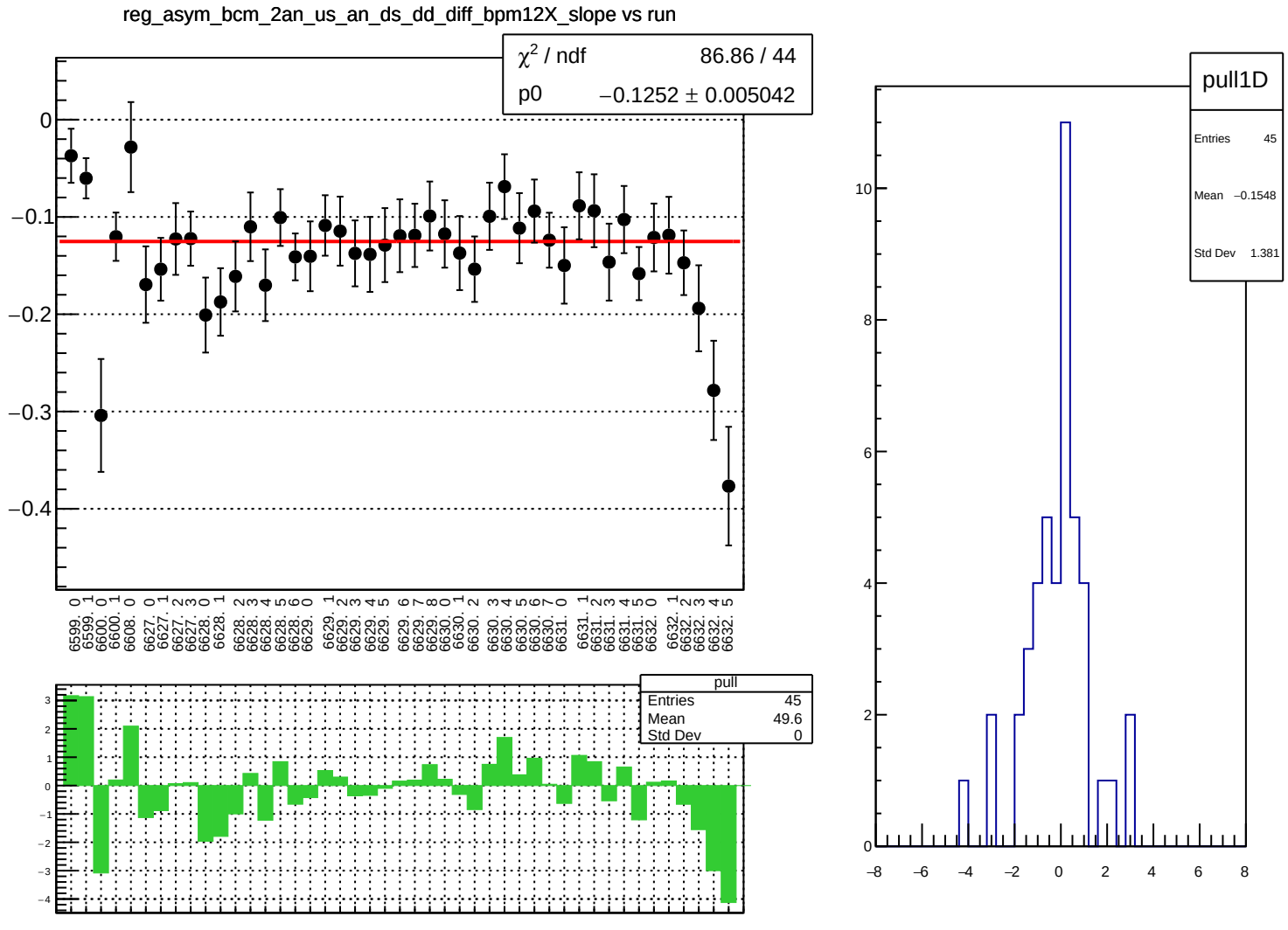

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 2464 / 44
p0 17.95 ± 0.1202
70
60
50
40
30
20
10
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 52.06
Std Dev 0
30
20
10
0
−10
−20
pull1D
Entries 45
Mean 0.0179
Std Dev 2.404
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

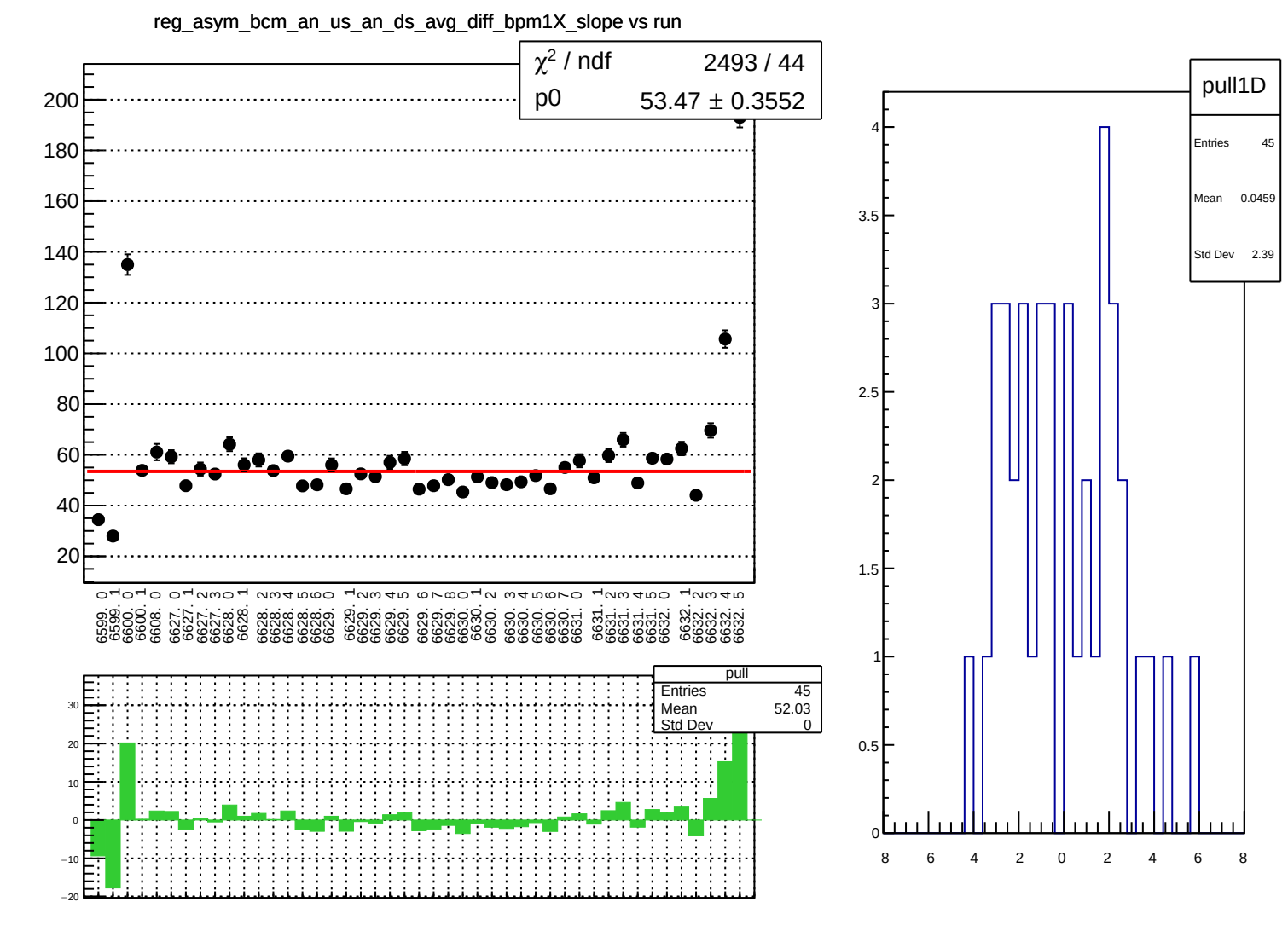

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 258.1 / 44
p0 −3.342 ± 0.07923
pull
Entries 45
Mean 43.92
Std Dev 5.943
pull1D
Entries 45
Mean −0.05443
Std Dev 1.927

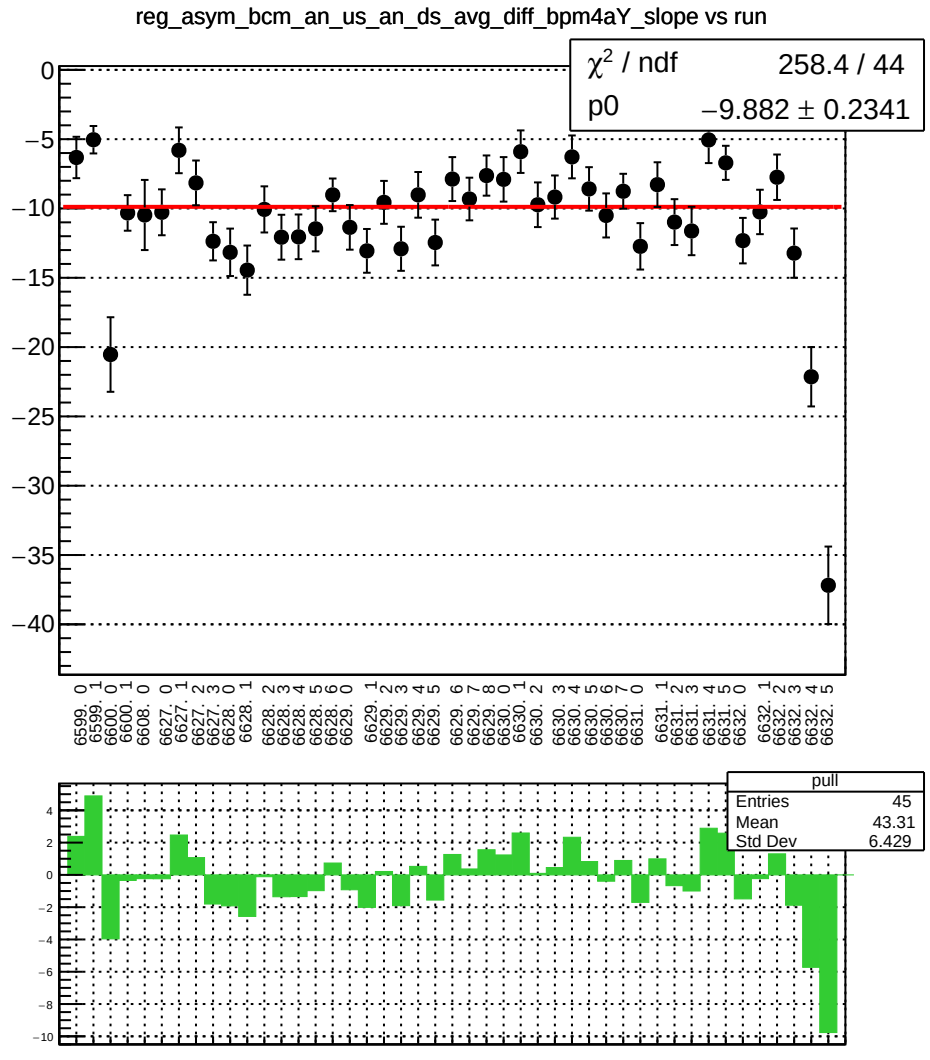

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 2408 / 44
p0 −18.34 ± 0.1239
pull
Entries 45
Mean 52.78
Std Dev 0

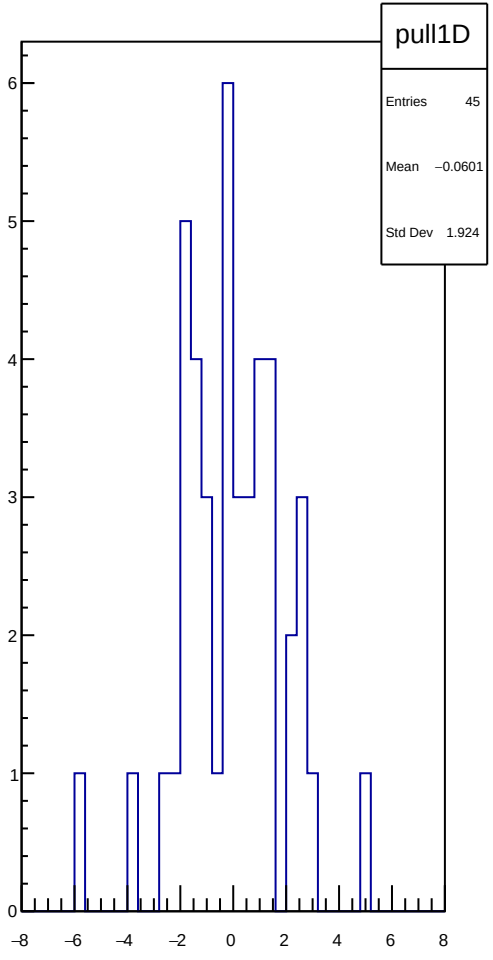

pull1D
Entries 45
Mean −0.03793
Std Dev 2.393

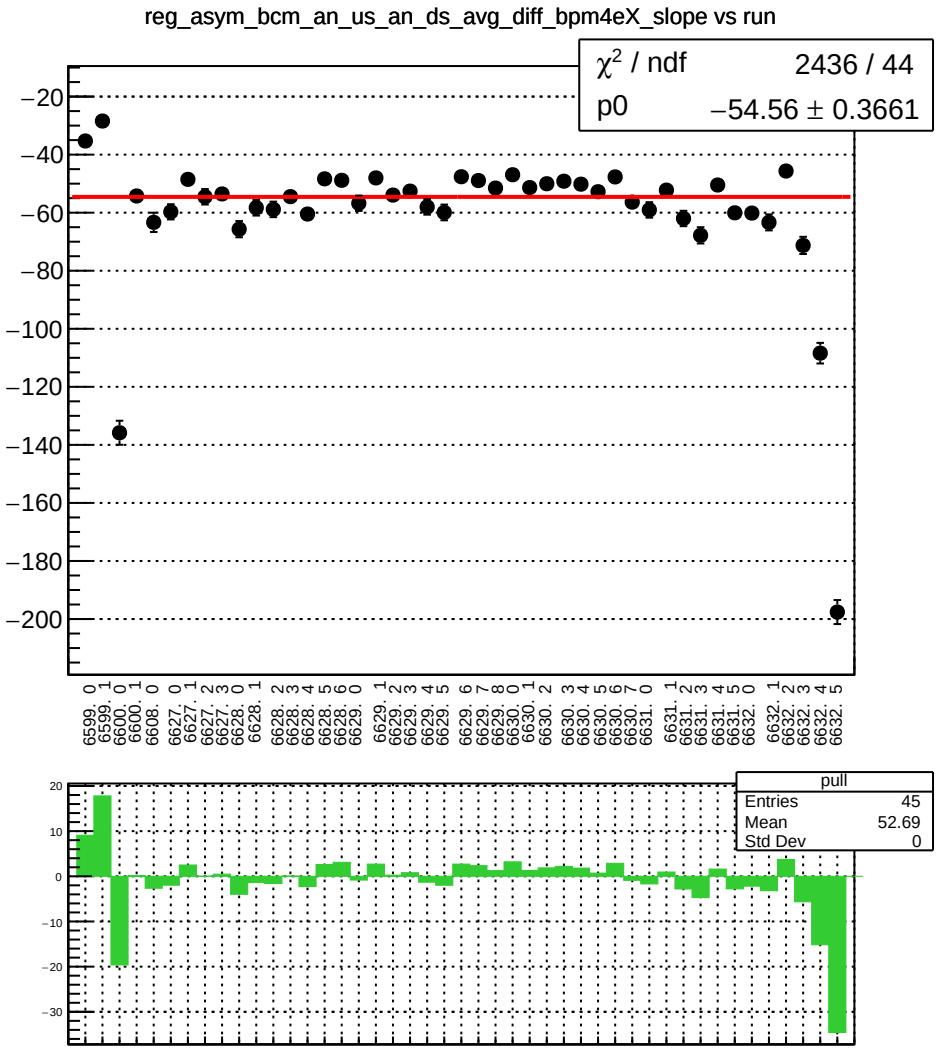

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 257.6 / 44
p0 3.876 ± 0.09437
pull
Entries 45
Mean 39.84
Std Dev 11.06
pull1D
Entries 45
Mean 0.0547
Std Dev 1.971

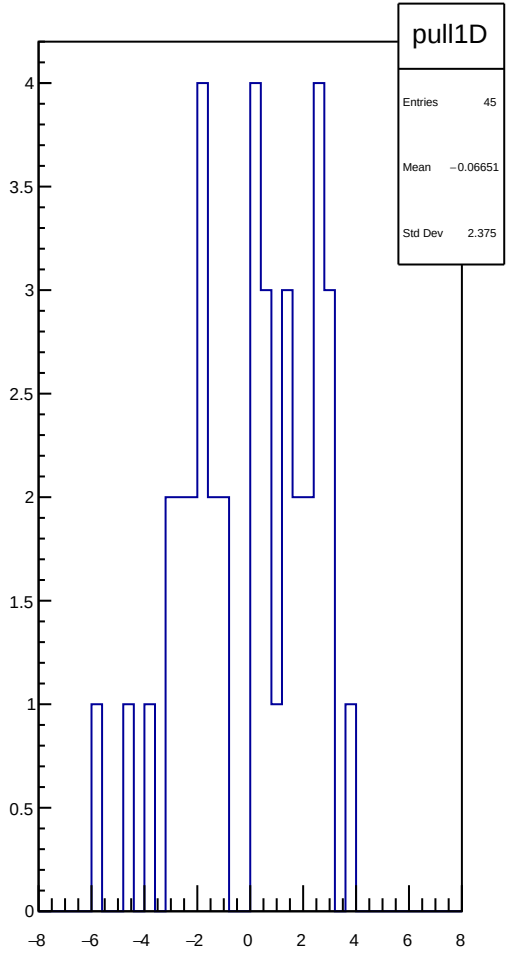

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 86.86 / 44
p0 −0.1252 ± 0.005042
pull
Entries 45
Mean 49.6
Std Dev 0
pull1D
Entries 45
Mean −0.1548
Std Dev 1.381

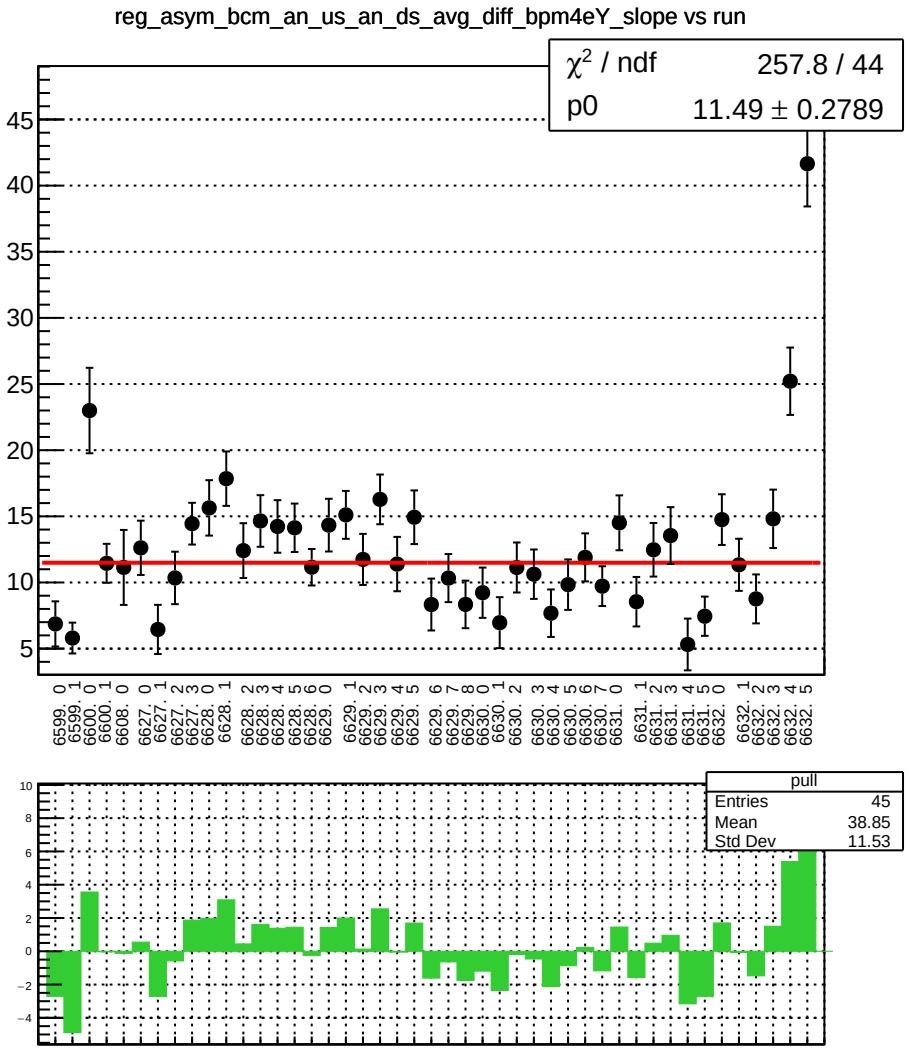

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 2493 / 44
p0 53.47 ± 0.3552
pull
Entries 45
Mean 52.03
Std Dev 0
pull1D
Entries 45
Mean 0.0459
Std Dev 2.39

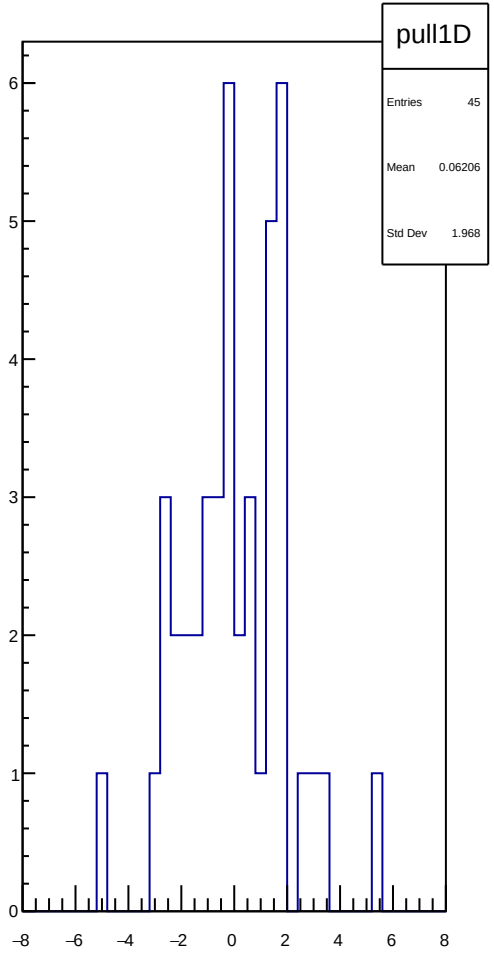

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 258.4 / 44
p0 −9.882 ± 0.2341
pull
Entries 45
Mean 43.31
Std Dev 6.429

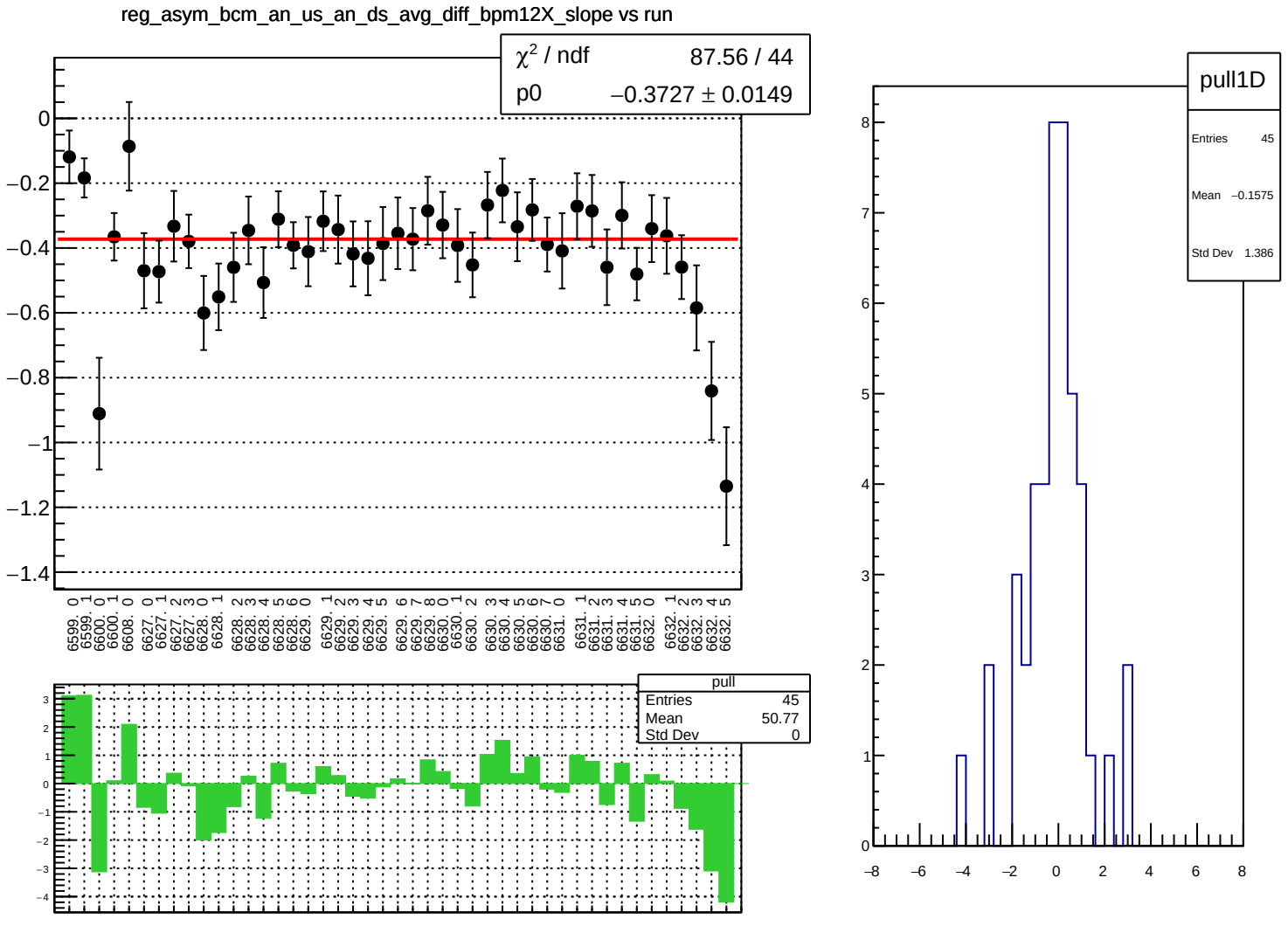

pull1D
Entries 45
Mean −0.0601
Std Dev 1.924

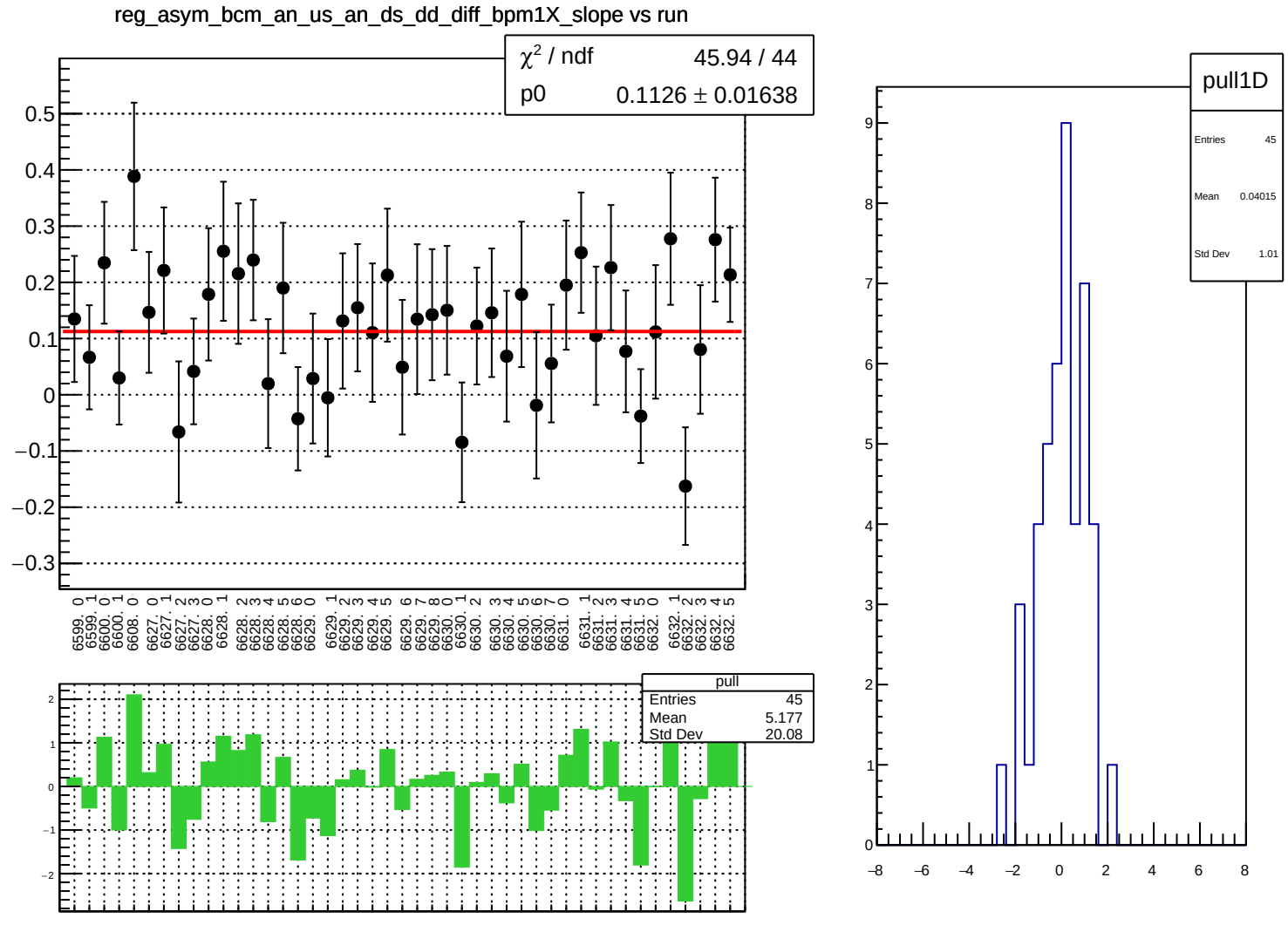

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 2436 / 44
p0 −54.56 ± 0.3661
pull
Entries 45
Mean 52.69
Std Dev 0

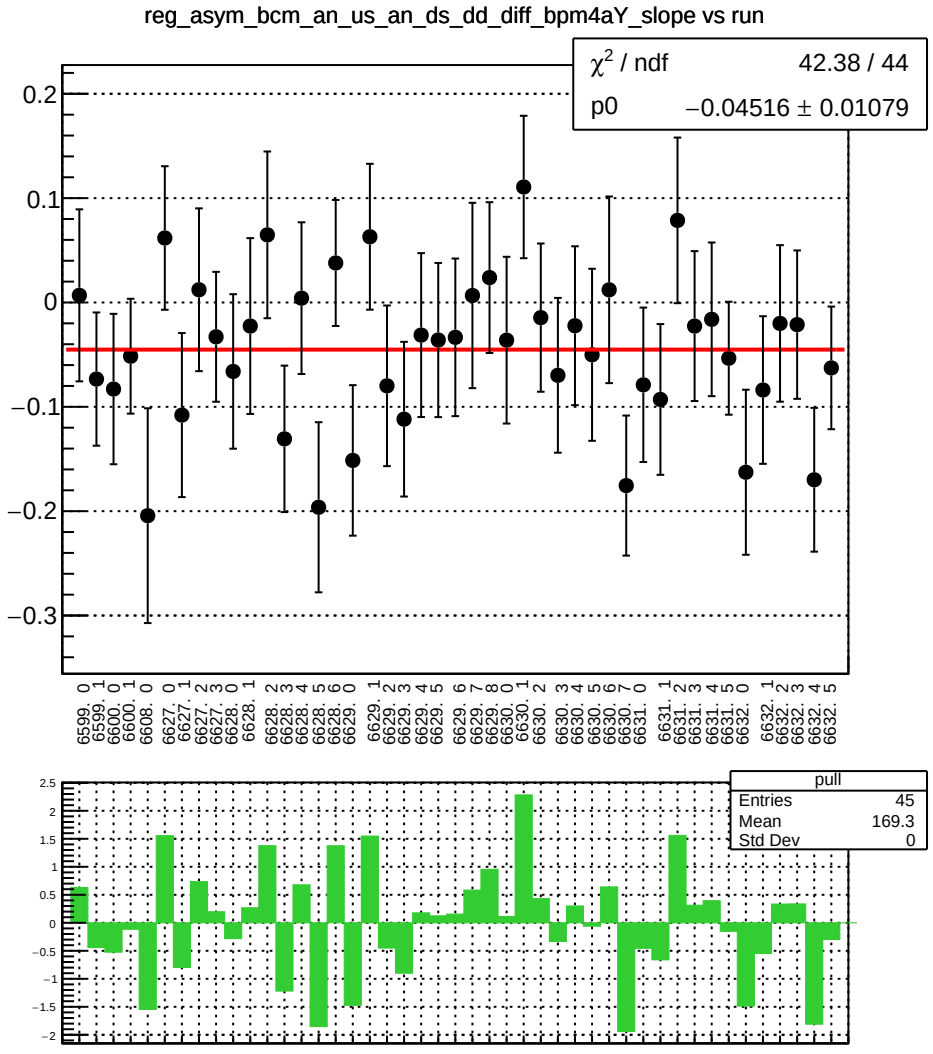

pull1D
Entries 45
Mean −0.06651
Std Dev 2.375

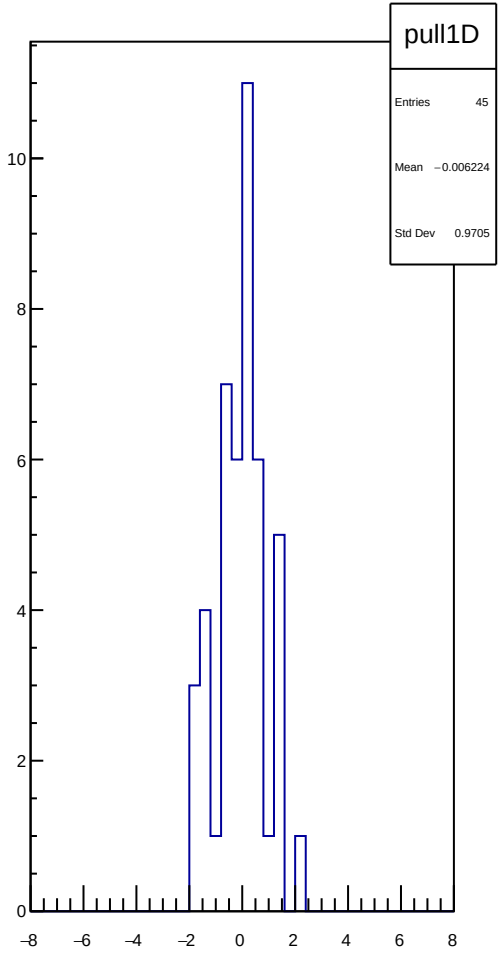

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 257.8 / 44
p0 11.49 ± 0.2789
pull
Entries 45
Mean 38.85
Std Dev 11.53

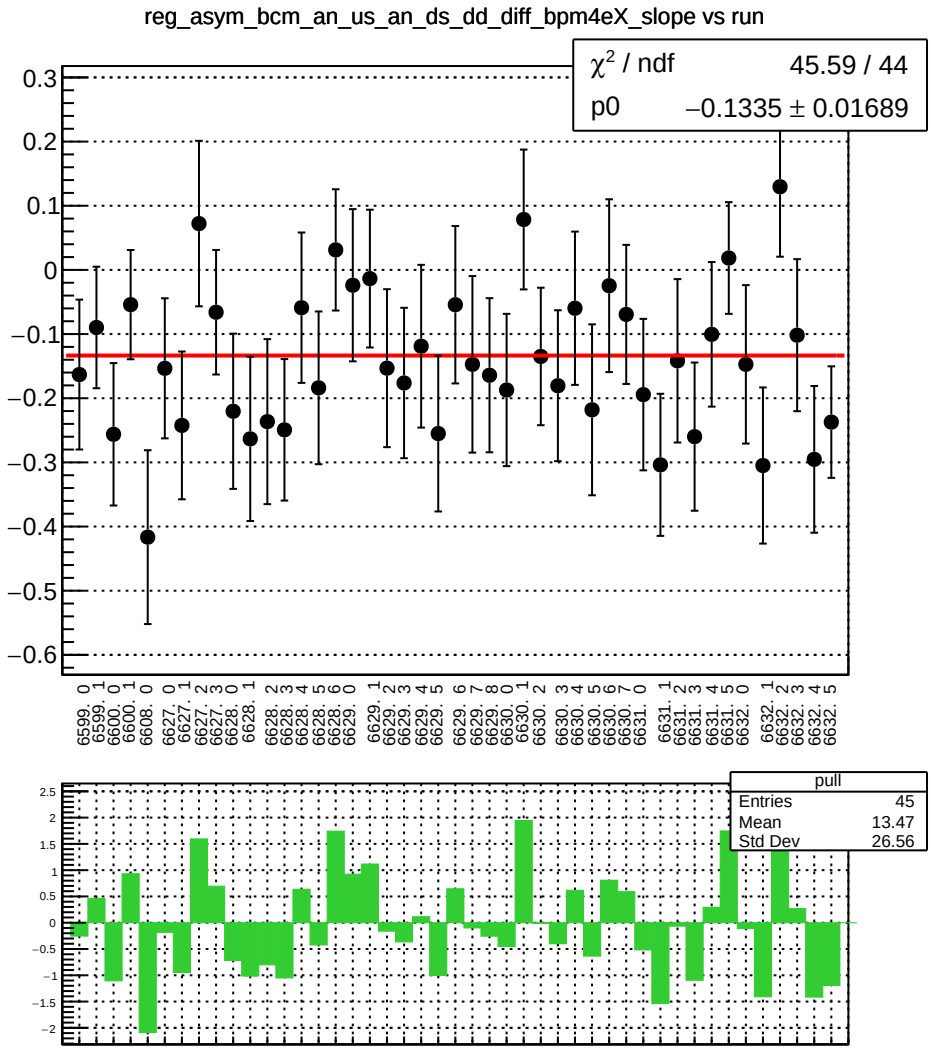

pull1D
Entries 45
Mean 0.06206
Std Dev 1.968

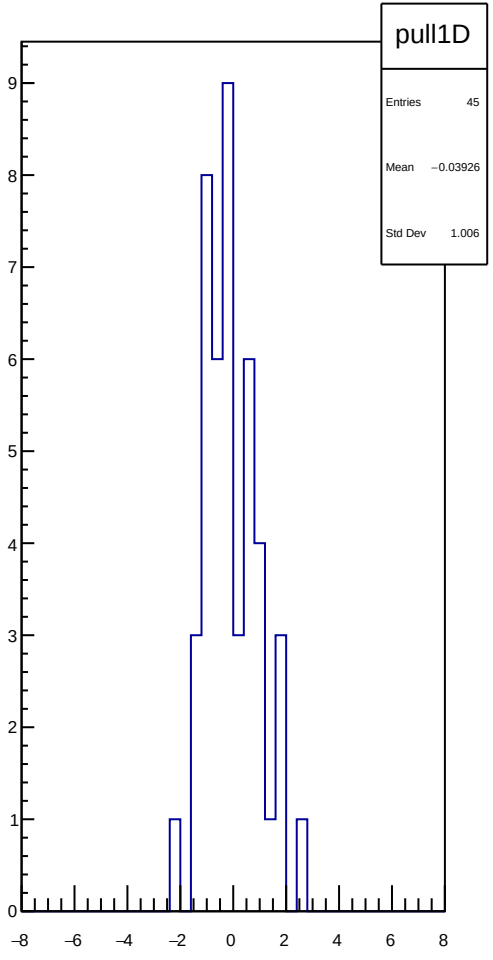

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 87.56 / 44
p0 −0.3727 ± 0.0149
pull
Entries 45
Mean 50.77
Std Dev 0
pull1D
Entries 45
Mean −0.1575
Std Dev 1.386

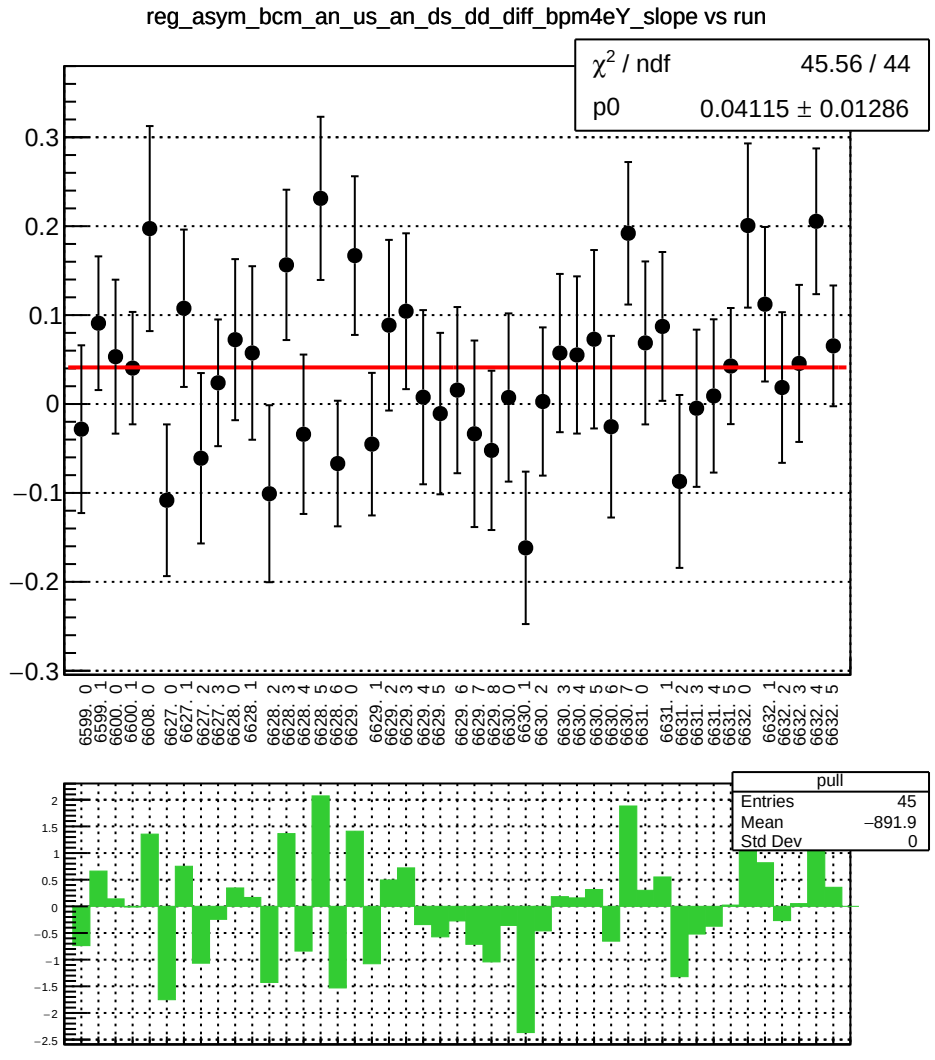

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 45.94 / 44
p0 0.1126 ± 0.01638
pull
Entries 45
Mean 5.177
Std Dev 20.08
pull1D
Entries 45
Mean 0.04015
Std Dev 1.01

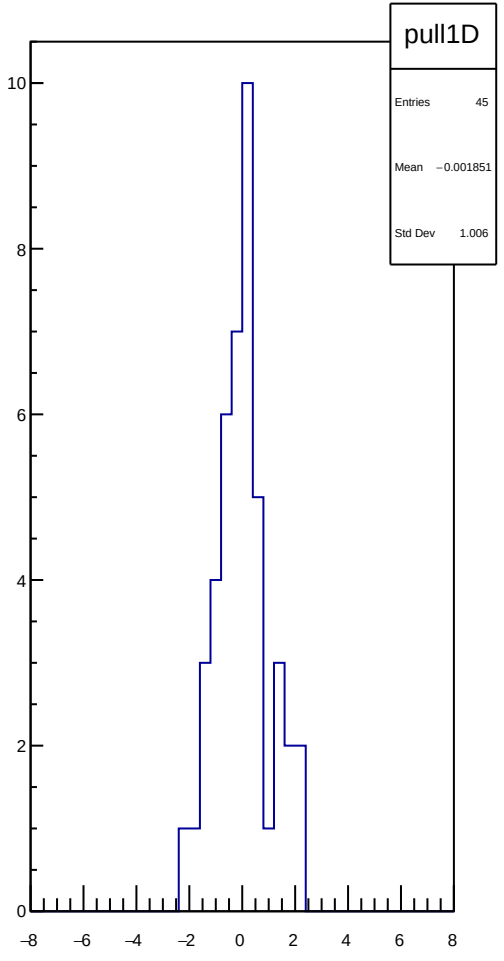

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 42.38 / 44
p0 −0.04516 ± 0.01079
pull
Entries 45
Mean 169.3
Std Dev 0

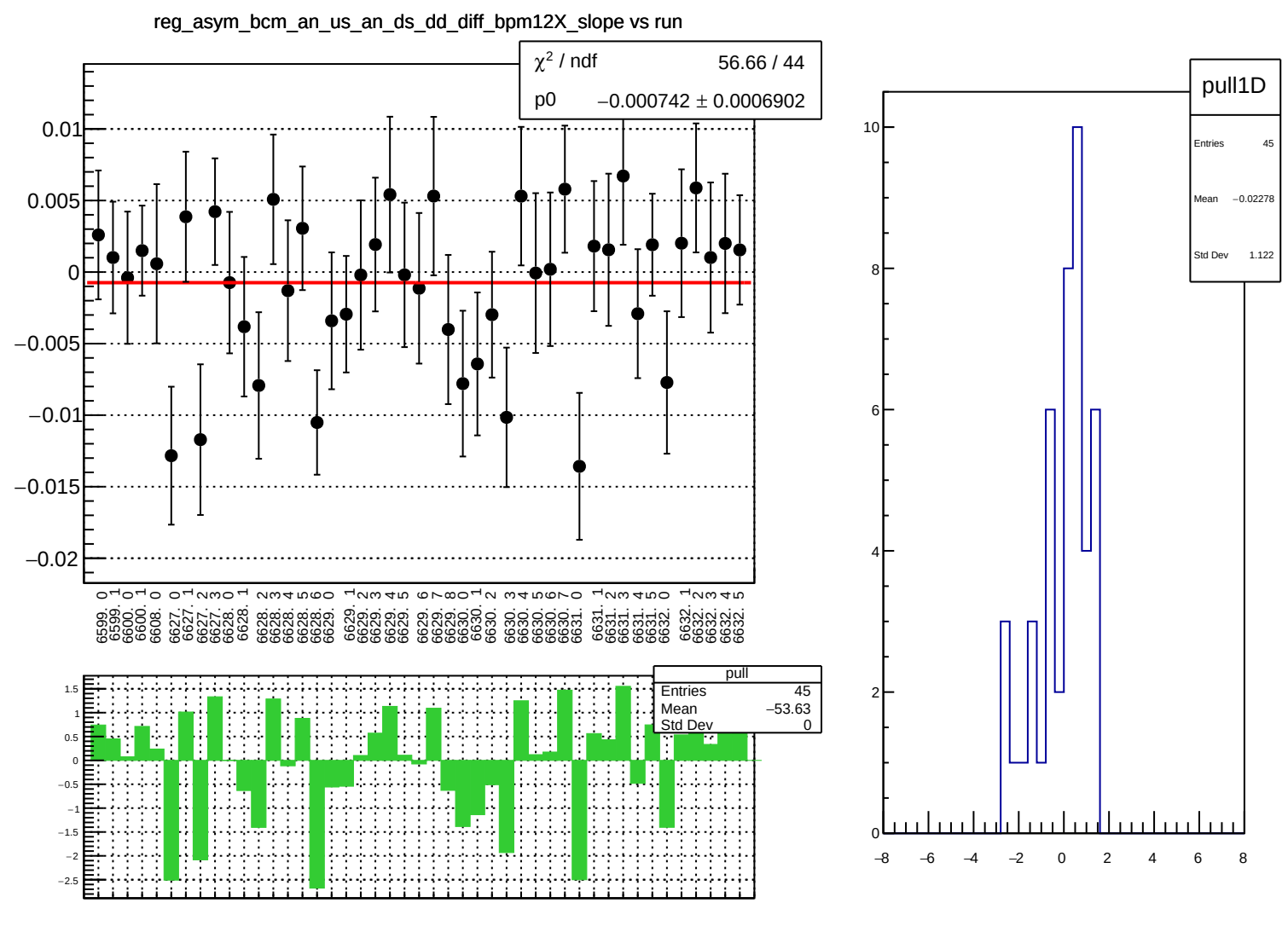

pull1D
Entries 45
Mean −0.006224
Std Dev 0.9705

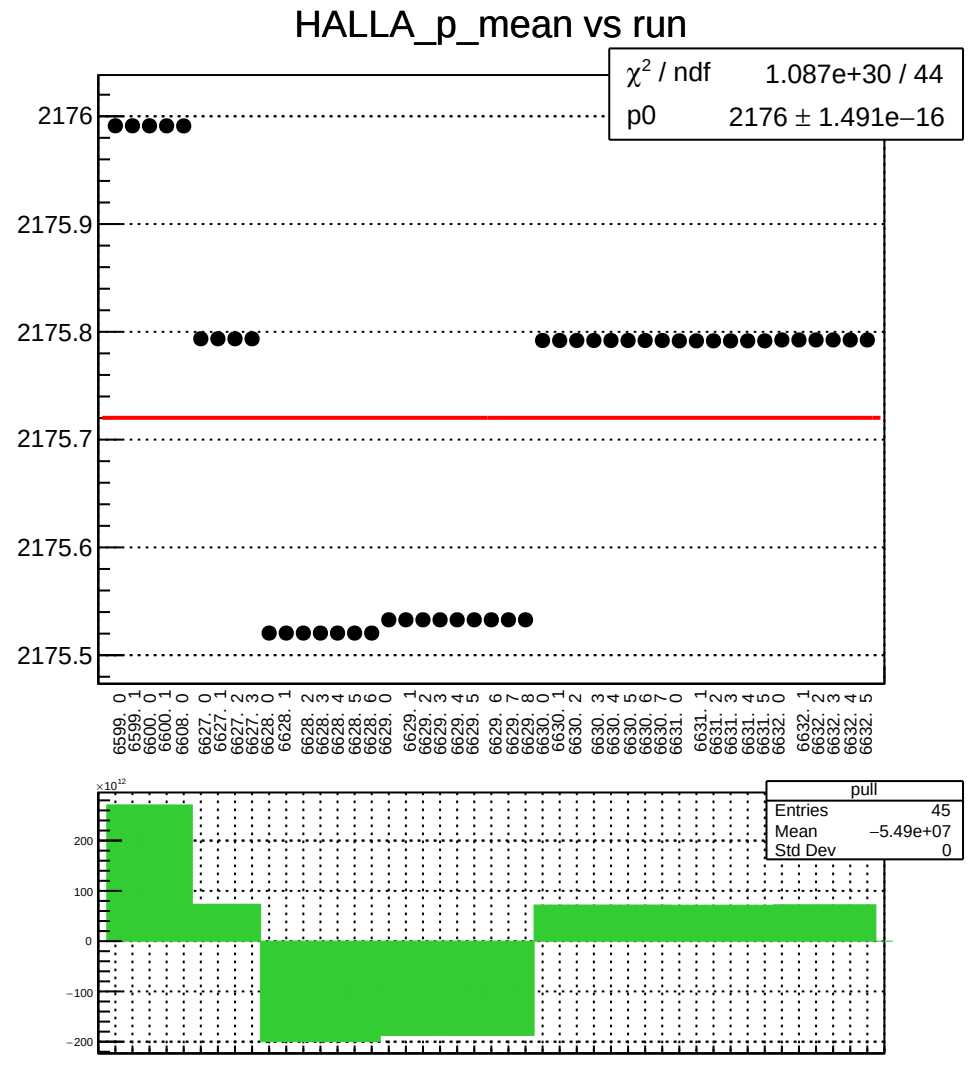

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 45.59 / 44
p0 −0.1335 ± 0.01689
pull
Entries 45
Mean 13.47
Std Dev 26.56

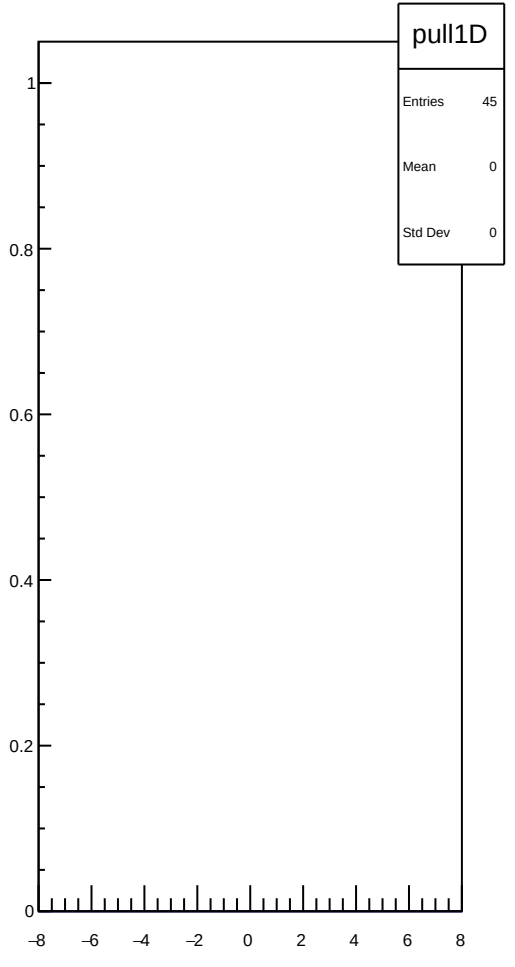

pull1D
Entries 45
Mean −0.03926
Std Dev 1.006

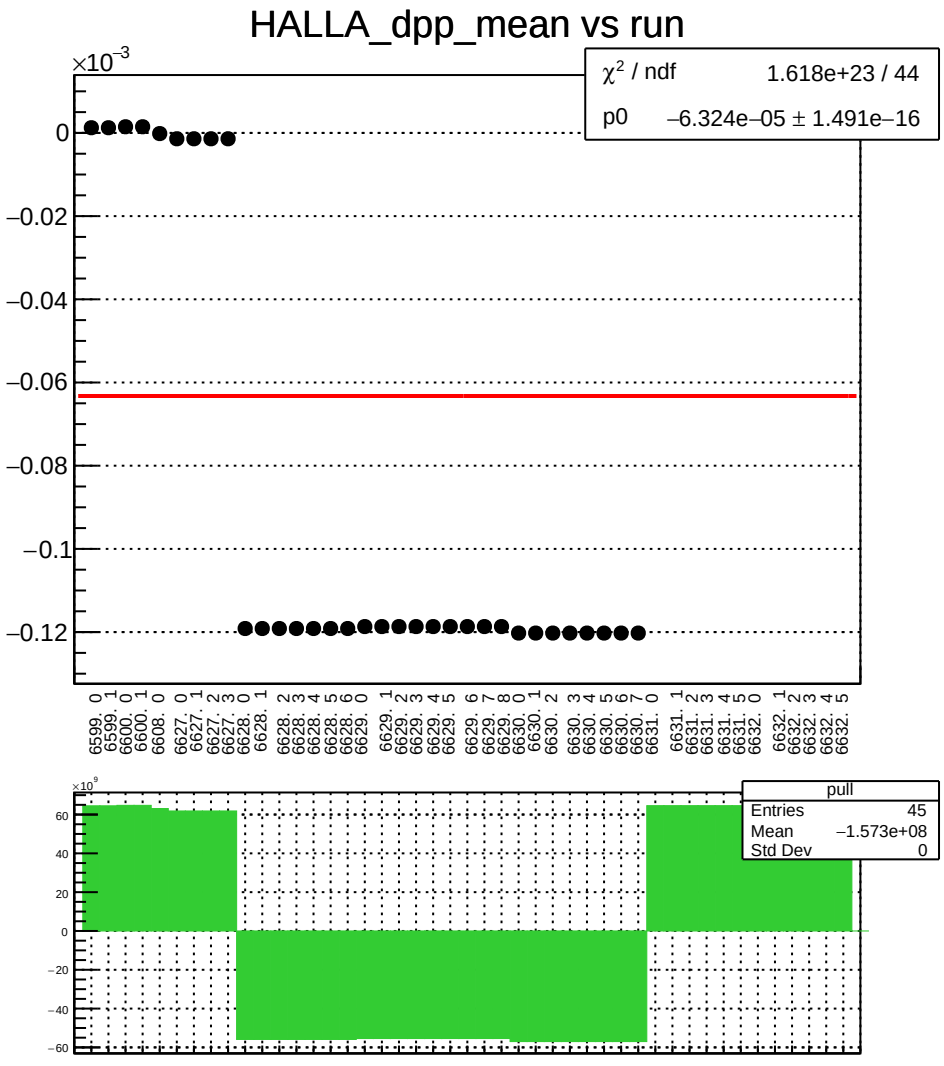

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 45.56 / 44
p0 0.04115 ± 0.01286
pull
Entries 45
Mean −891.9
Std Dev 0

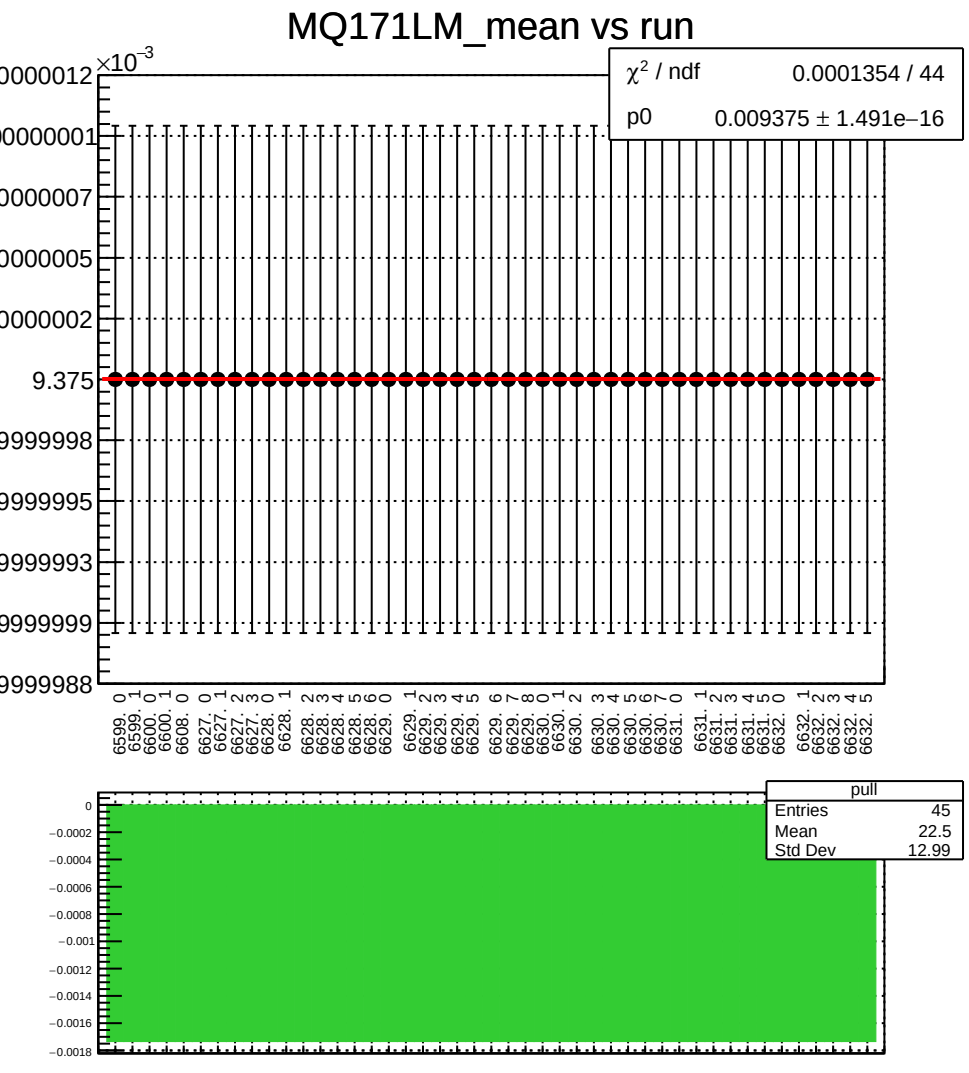

pull1D
Entries 45
Mean −0.001851
Std Dev 1.006

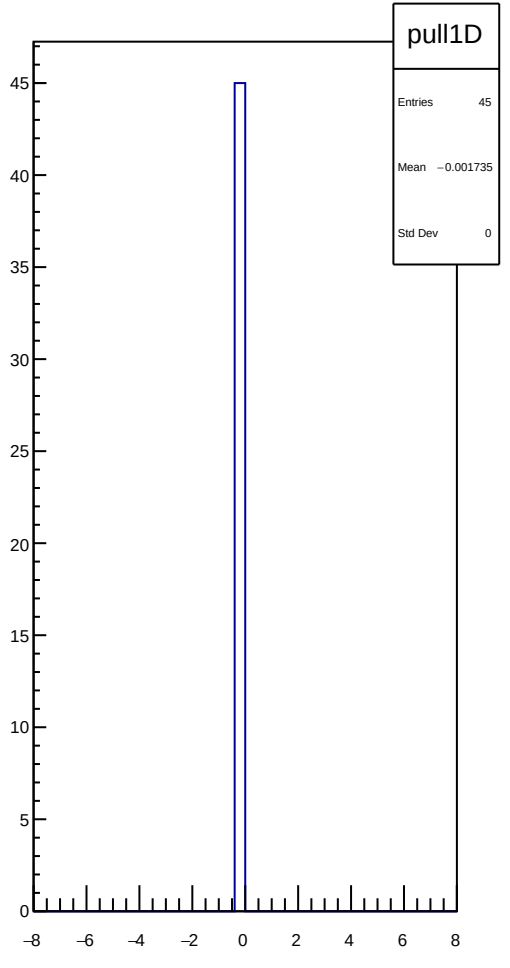

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 56.66 / 44
p0 −0.000742 ± 0.0006902
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean −53.63
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean −0.02278
Std Dev 1.122
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

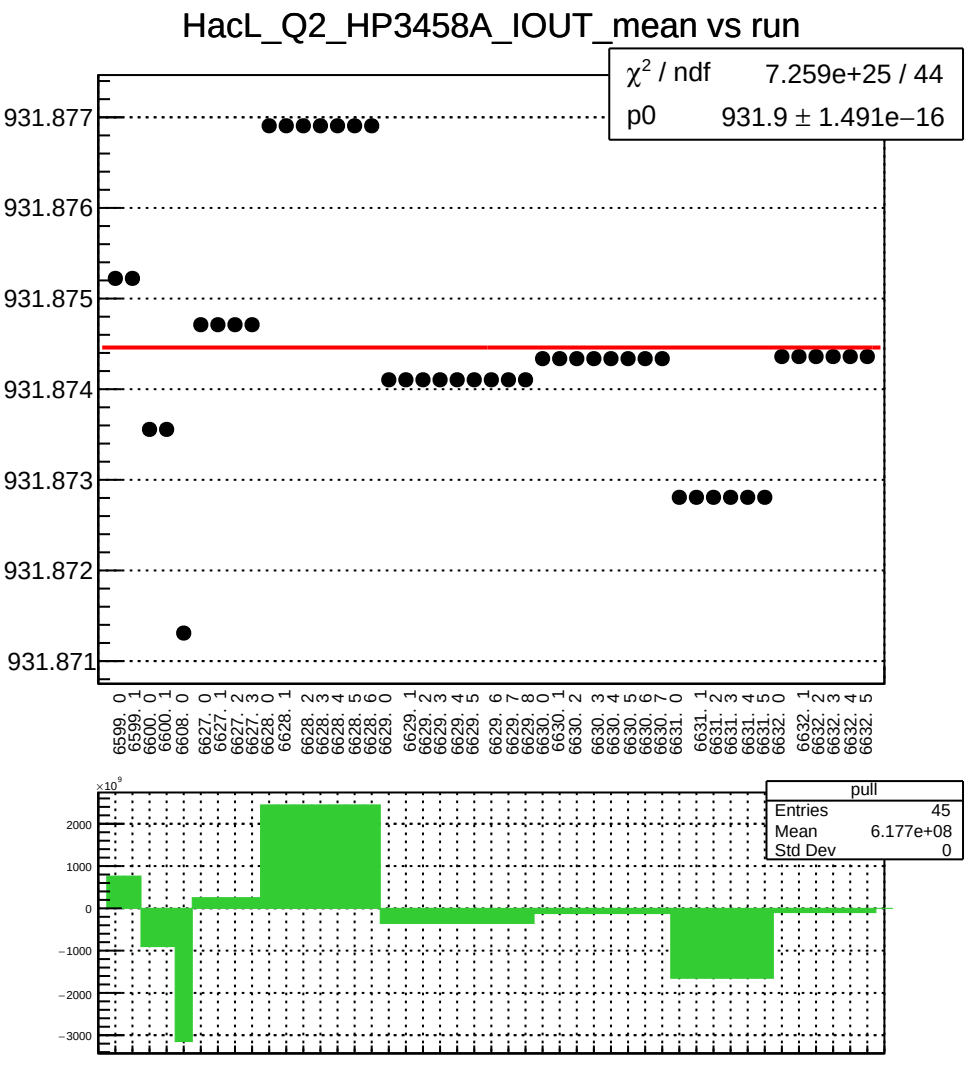

HALLA_p_mean vs run
χ² / ndf 1.087e+30 / 44
p0 2176 ± 1.491e−16
2176
2175.9
2175.8
2175.7
2175.6
2175.5
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
×10¹²
200
100
0
−100
−200
pull
Entries 45
Mean −5.49e+07
Std Dev 0

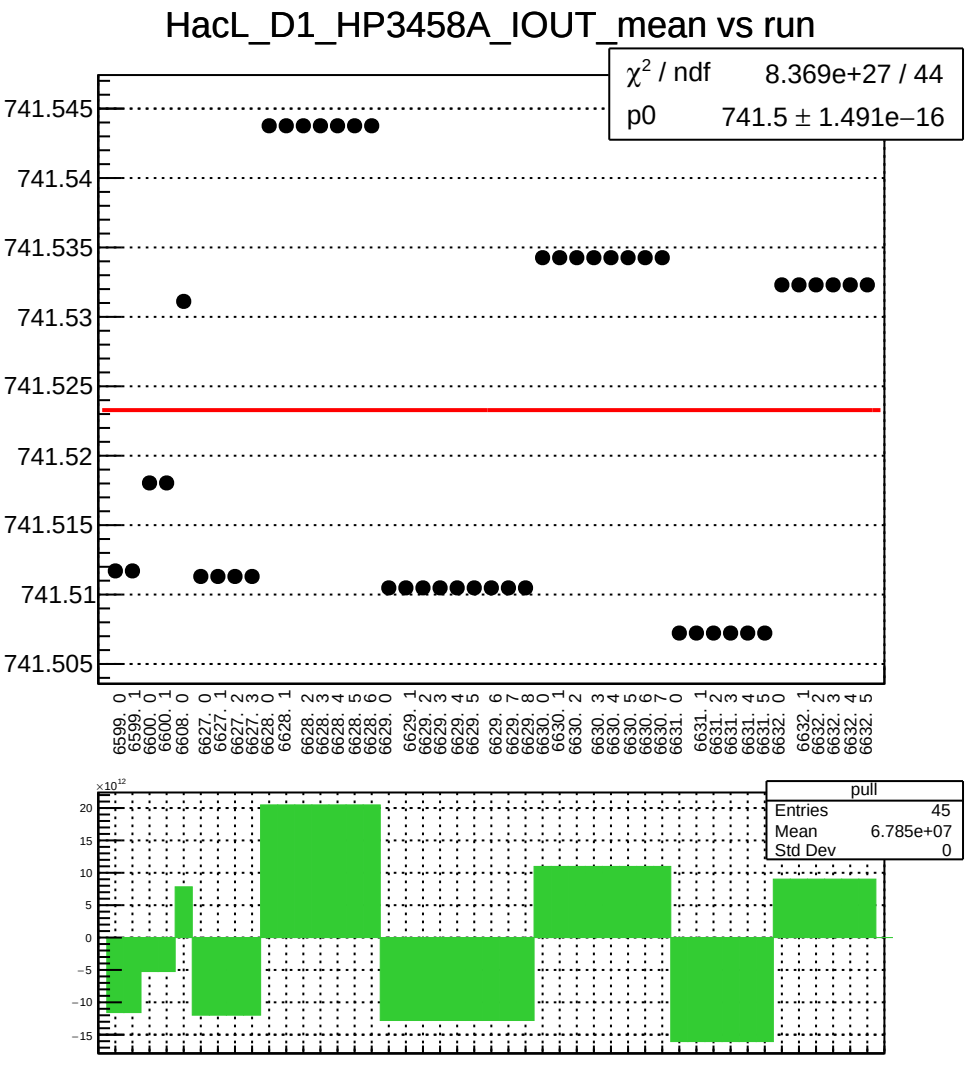

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

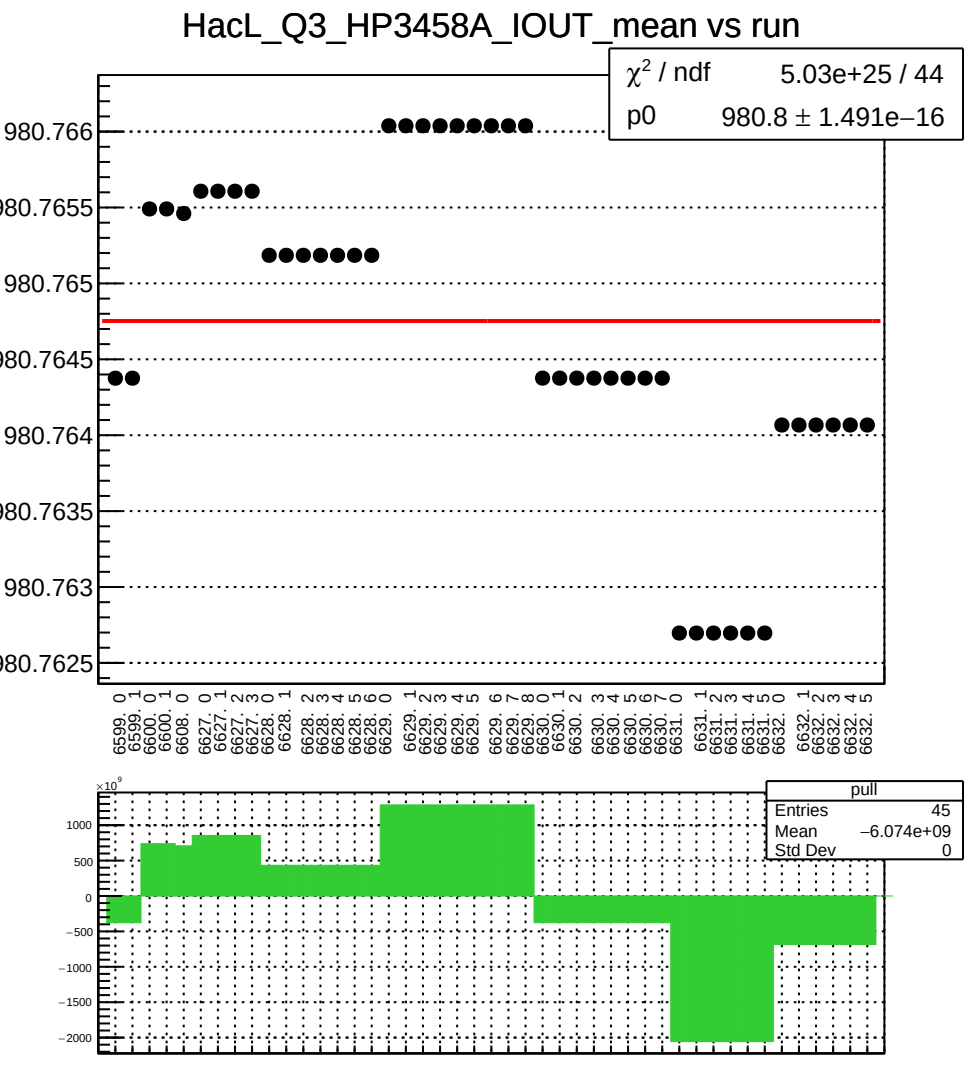

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 1.618e+23 / 44
p0 −6.324e−05 ± 1.491e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
×10⁹
pull
Entries 45
Mean −1.573e+08
Std Dev 0
60
40
20
0
−20
−40
−60
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

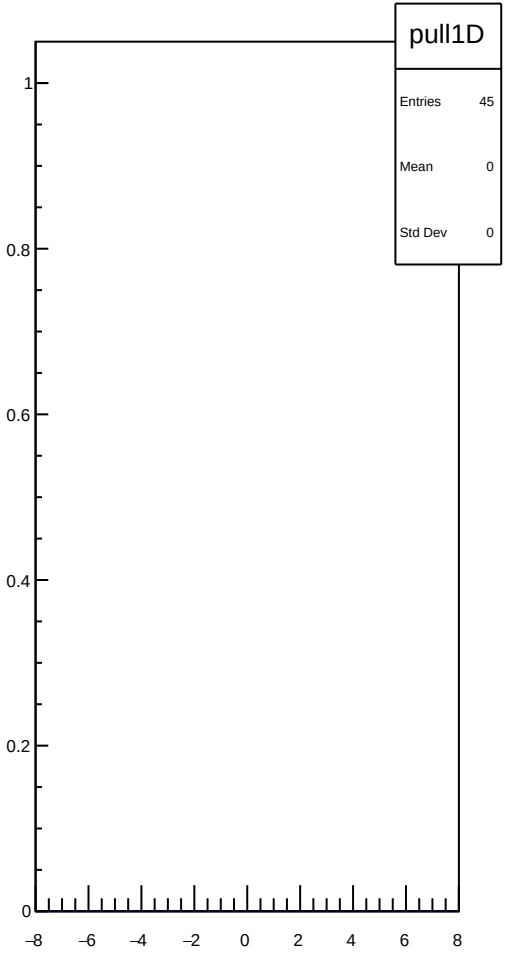

MQ171LM_mean vs run
χ² / ndf 0.0001354 / 44
p0 0.009375 ± 1.491e−16
×10⁻³
pull
Entries 45
Mean 22.5
Std Dev 12.99

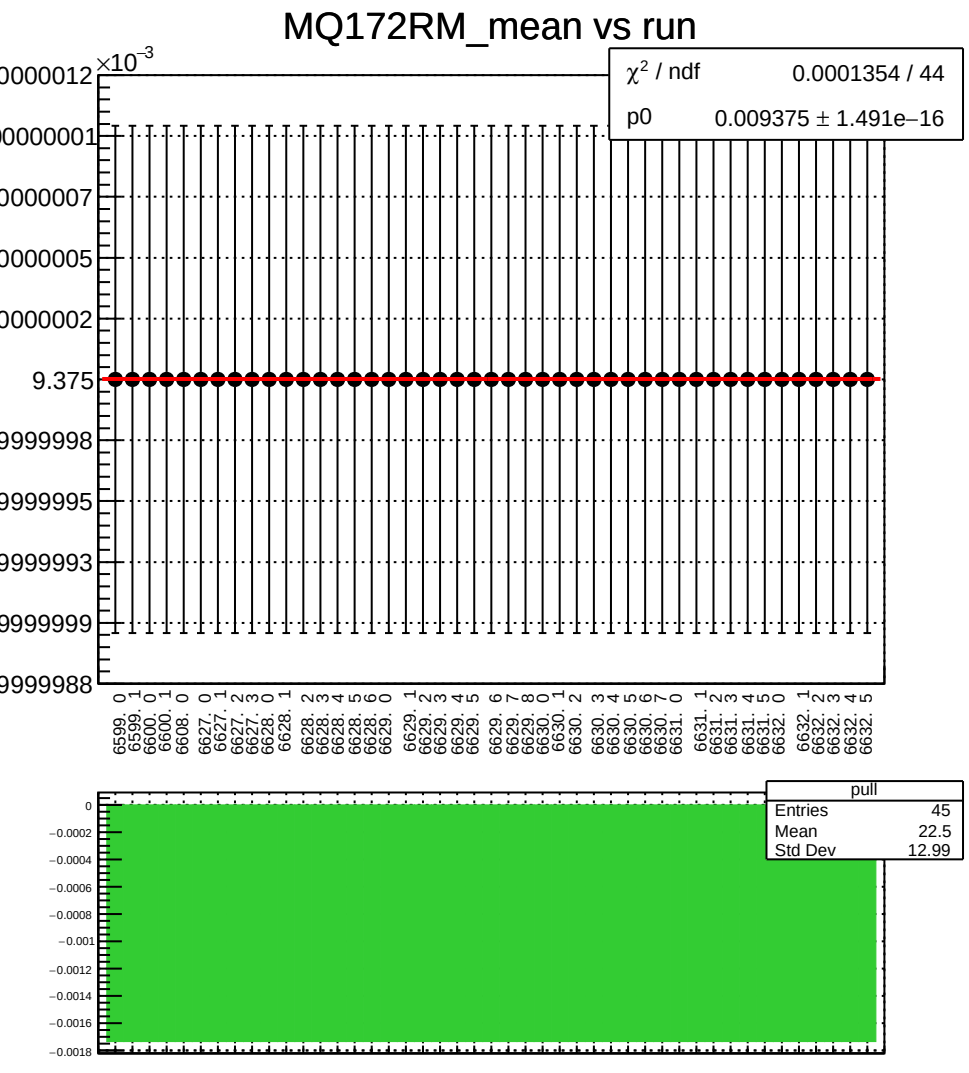

pull1D
Entries 45
Mean −0.001735
Std Dev 0

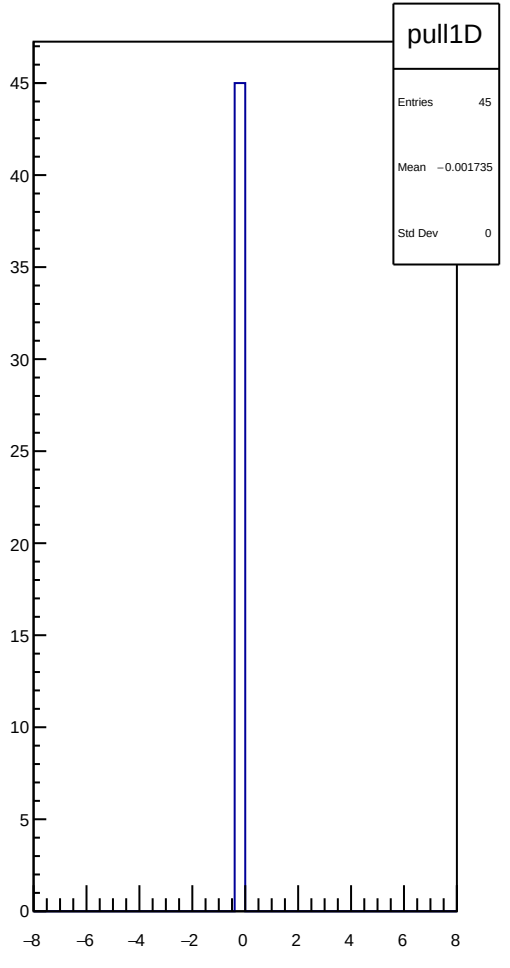

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 7.259e+25 / 44
p0 931.9 ± 1.491e−16
931.877
931.876
931.875
931.874
931.873
931.872
931.871
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
×10⁹
2000
1000
0
−1000
−2000
−3000
pull
Entries 45
Mean 6.177e+08
Std Dev 0
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

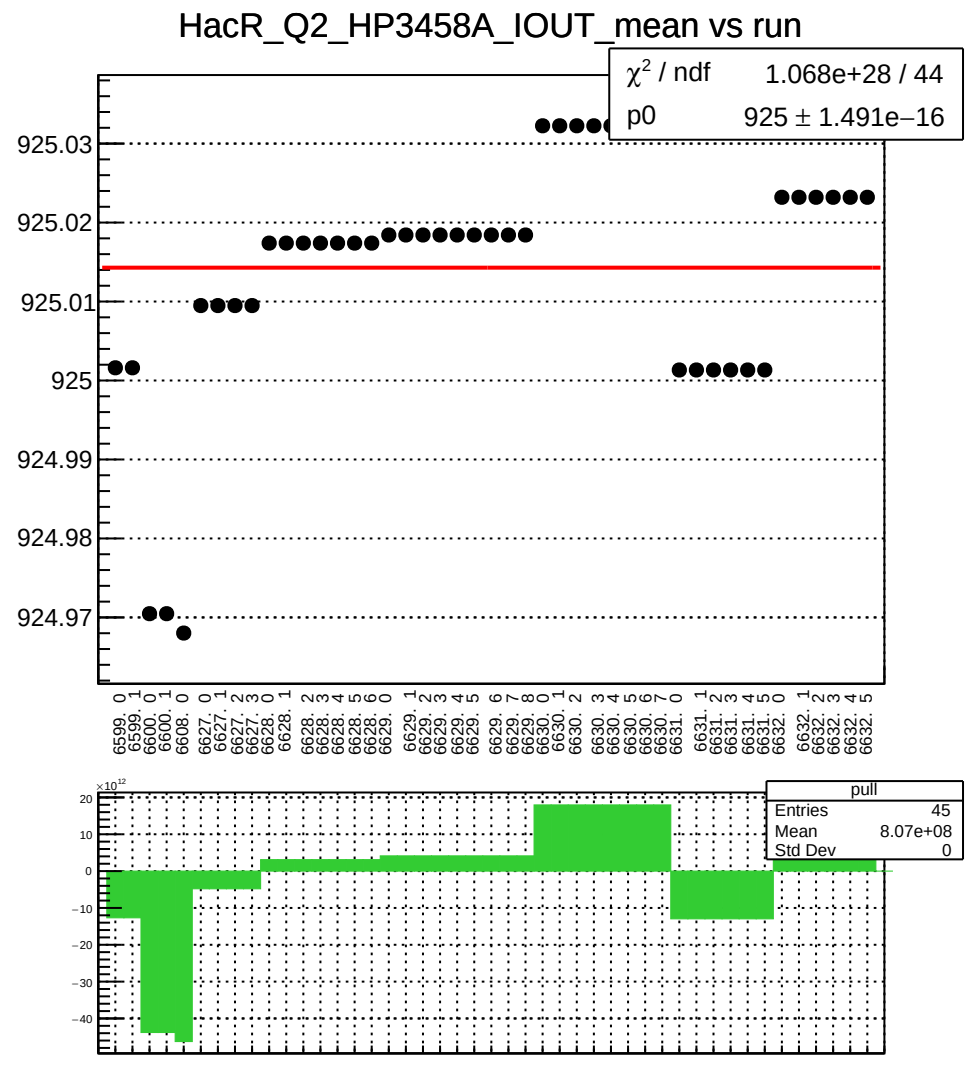

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 8.369e+27 / 44
p0 741.5 ± 1.491e−16
741.545
741.54
741.535
741.53
741.525
741.52
741.515
741.51
741.505
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
×10¹²
20
15
10
5
0
−5
−10
−15
pull
Entries 45
Mean 6.785e+07
Std Dev 0
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

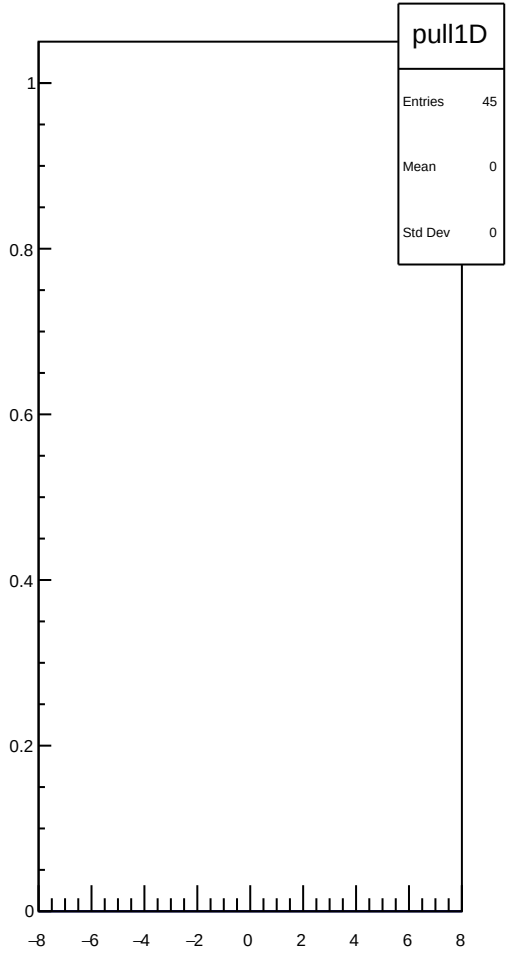

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 5.03e+25 / 44
p0 980.8 ± 1.491e−16
980.766
980.7655
980.765
980.7645
980.764
980.7635
980.763
980.7625
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
×10⁹
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 45
Mean −6.074e+09
Std Dev 0

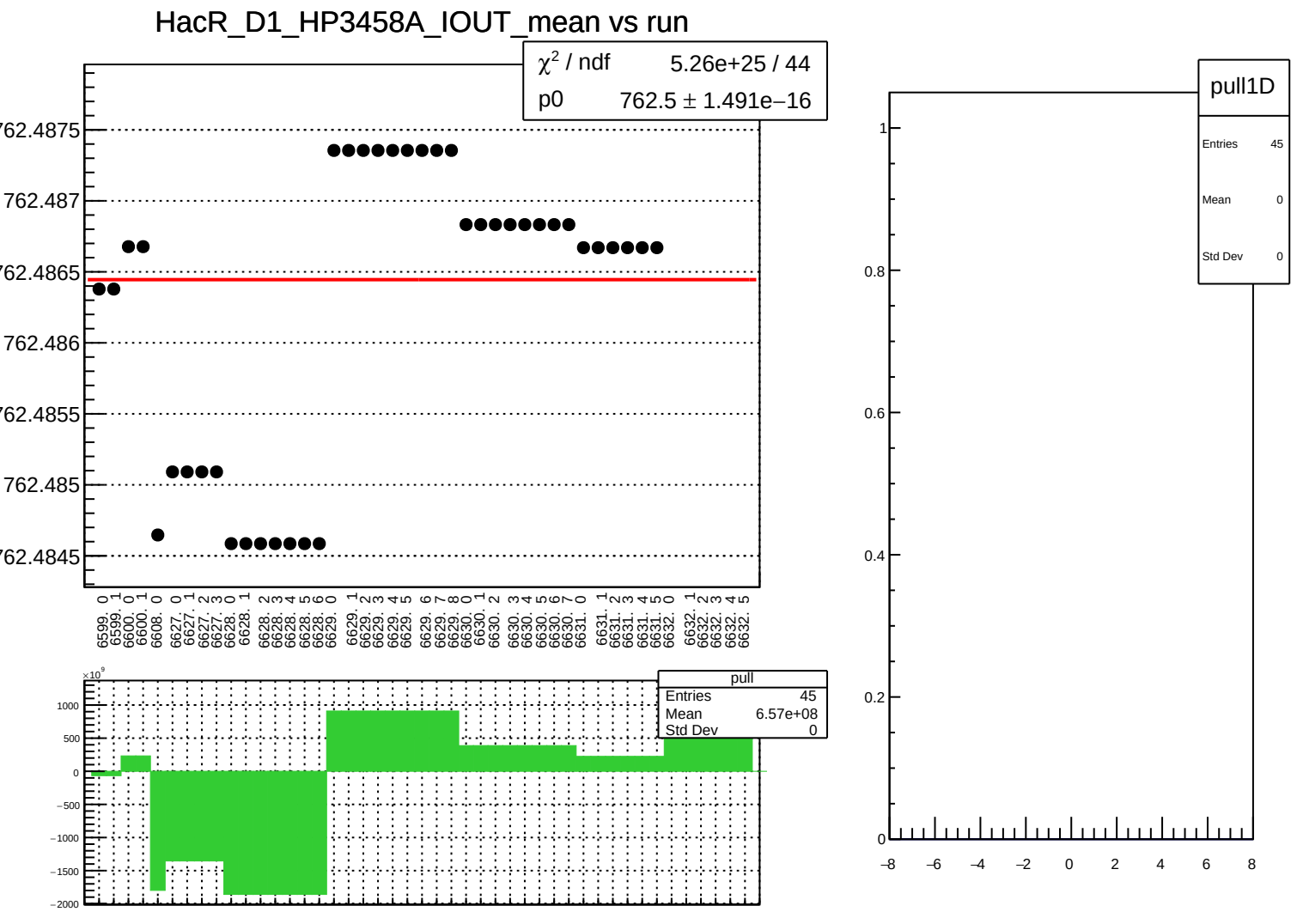

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

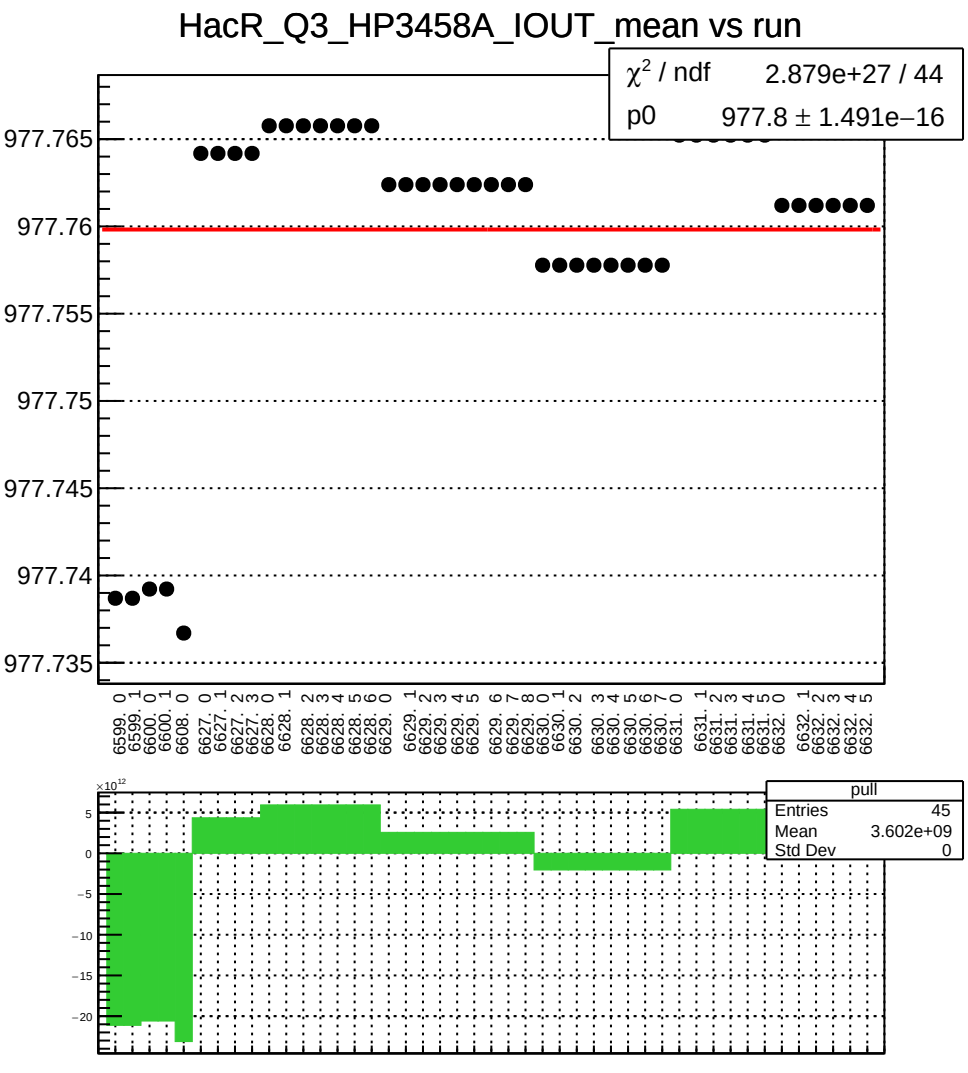

MQ172RM_mean vs run
χ² / ndf 0.0001354 / 44
p0 0.009375 ± 1.491e−16
×10⁻³
pull
Entries 45
Mean 22.5
Std Dev 12.99

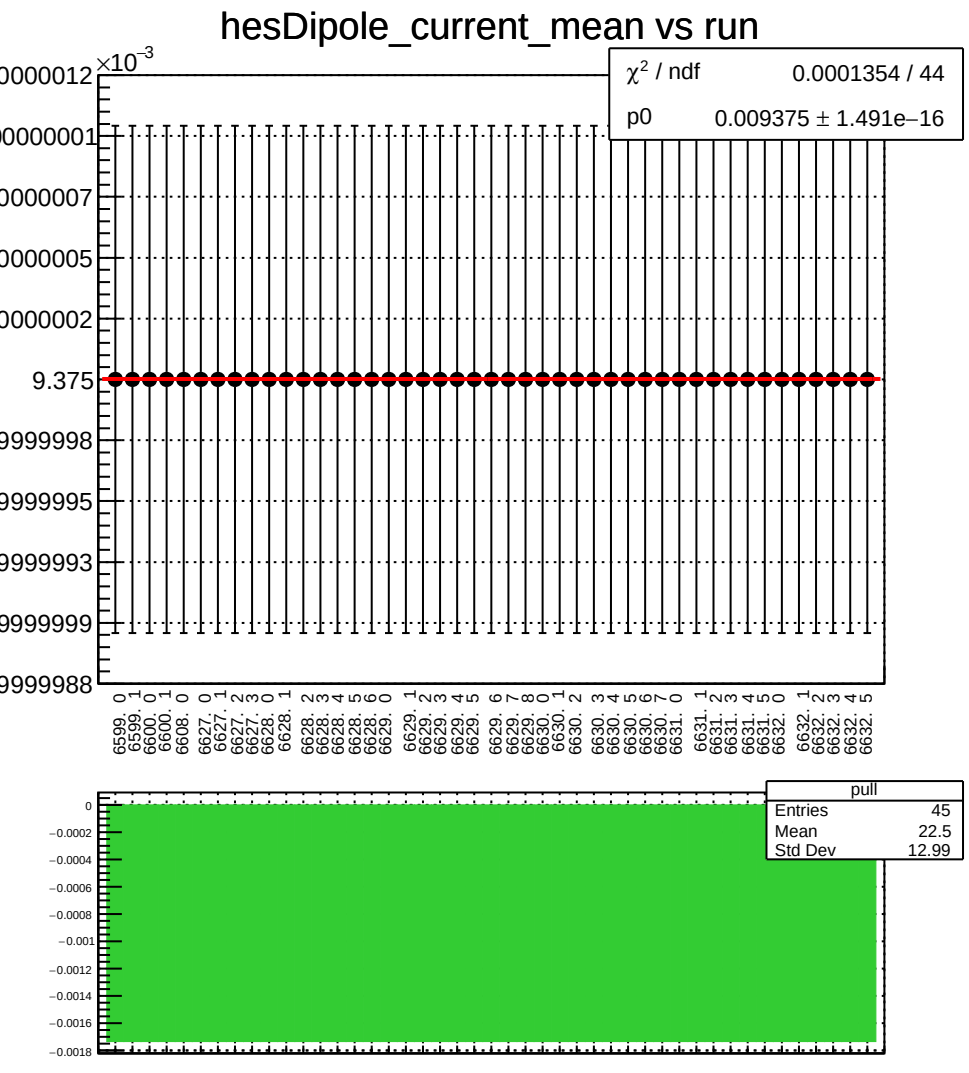

pull1D
Entries 45
Mean −0.001735
Std Dev 0

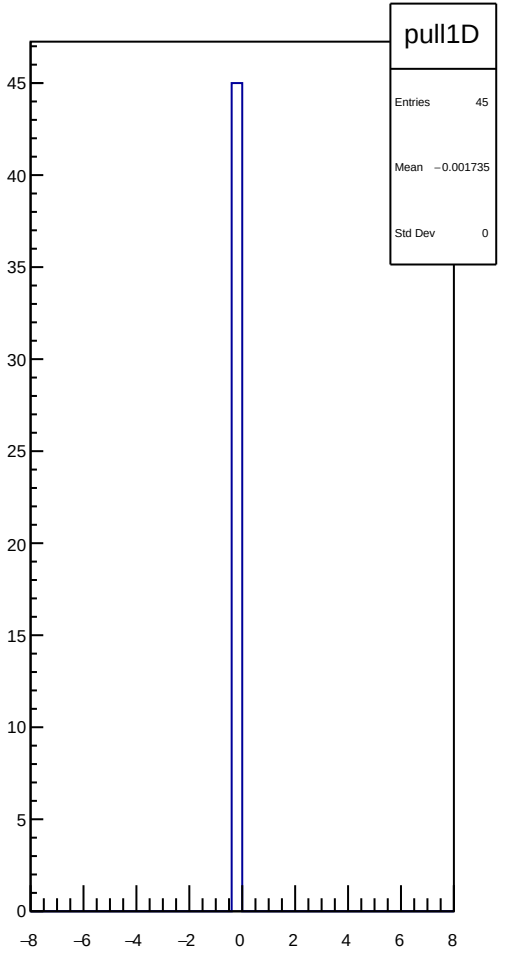

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.068e+28 / 44
p0 925 ± 1.491e−16
925.03
925.02
925.01
925
924.99
924.98
924.97
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
×10¹²
20
10
0
−10
−20
−30
−40
pull
Entries 45
Mean 8.07e+08
Std Dev 0

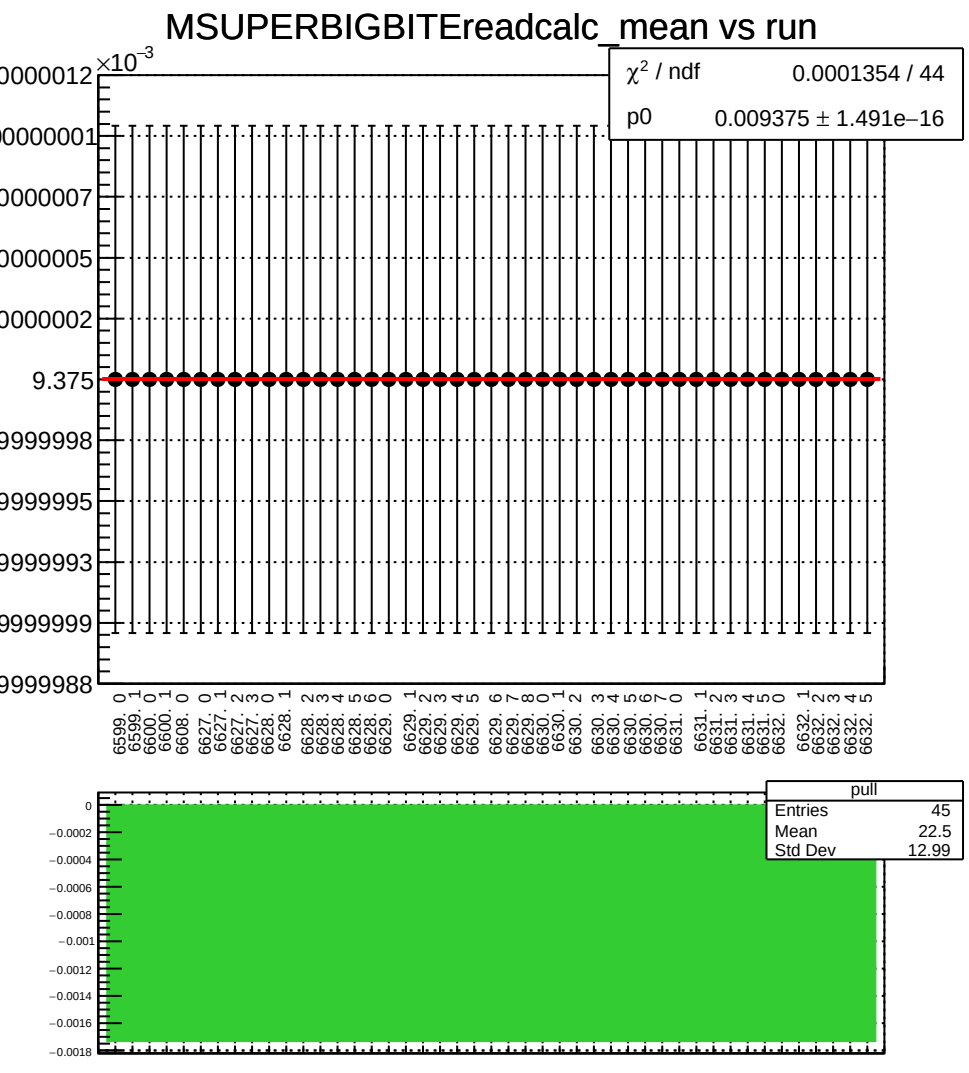

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

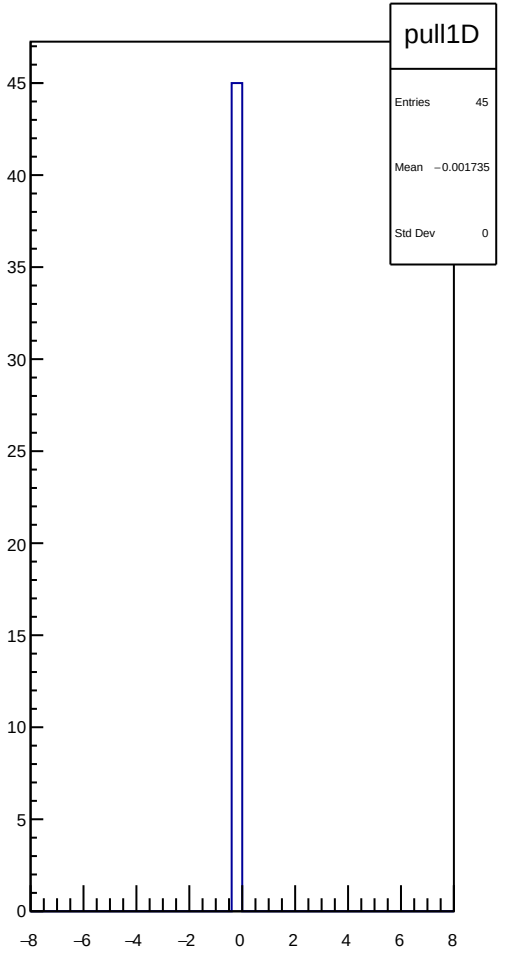

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 5.26e+25 / 44
p0 762.5 ± 1.491e−16
762.4875
762.487
762.4865
762.486
762.4855
762.485
762.4845
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
×10⁹
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 45
Mean 6.57e+08
Std Dev 0
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

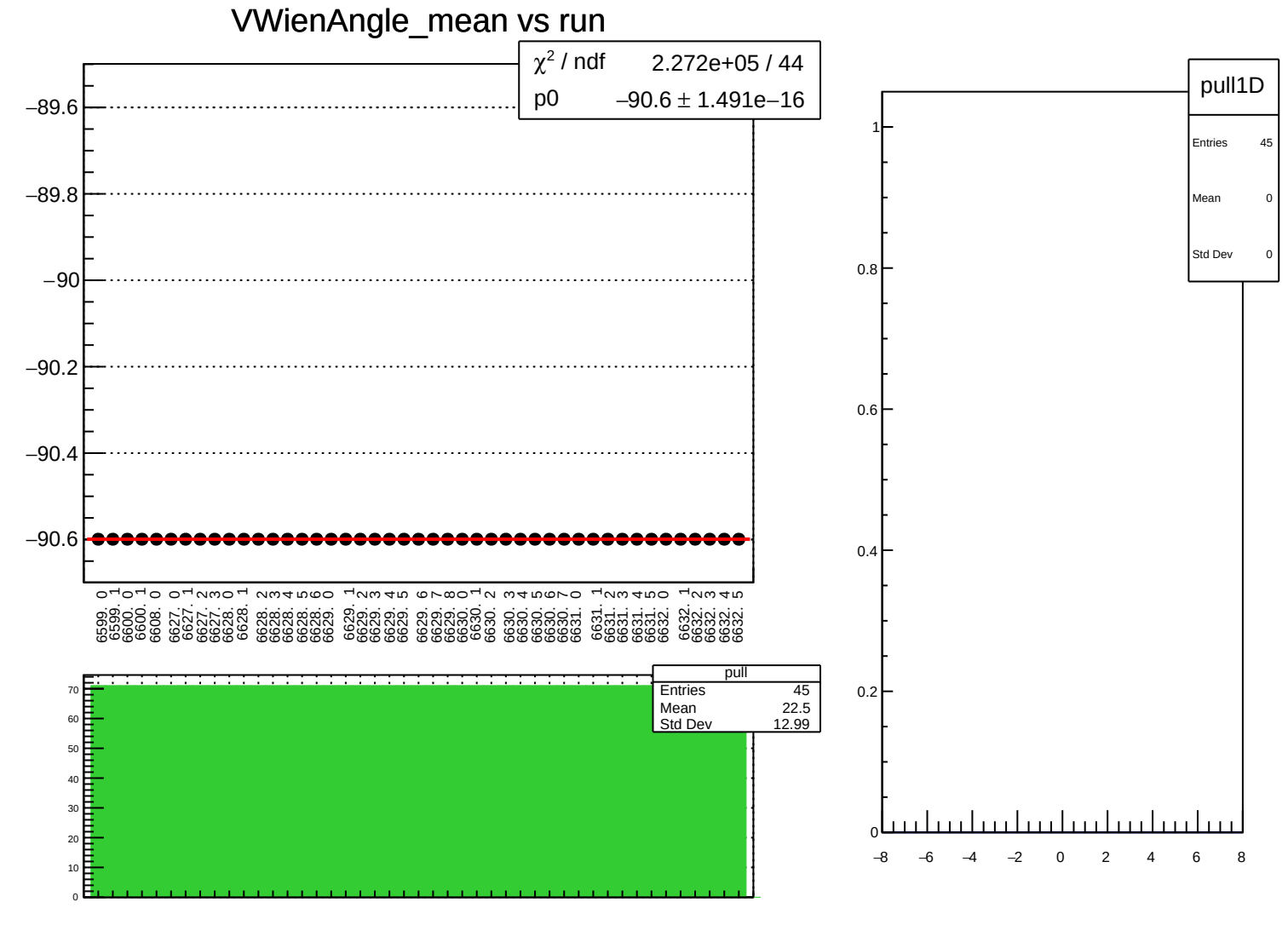

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 2.879e+27 / 44
p0 977.8 ± 1.491e−16
977.765
977.76
977.755
977.75
977.745
977.74
977.735
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
×10¹²
5
0
−5
−10
−15
−20
pull
Entries 45
Mean 3.602e+09
Std Dev 0
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

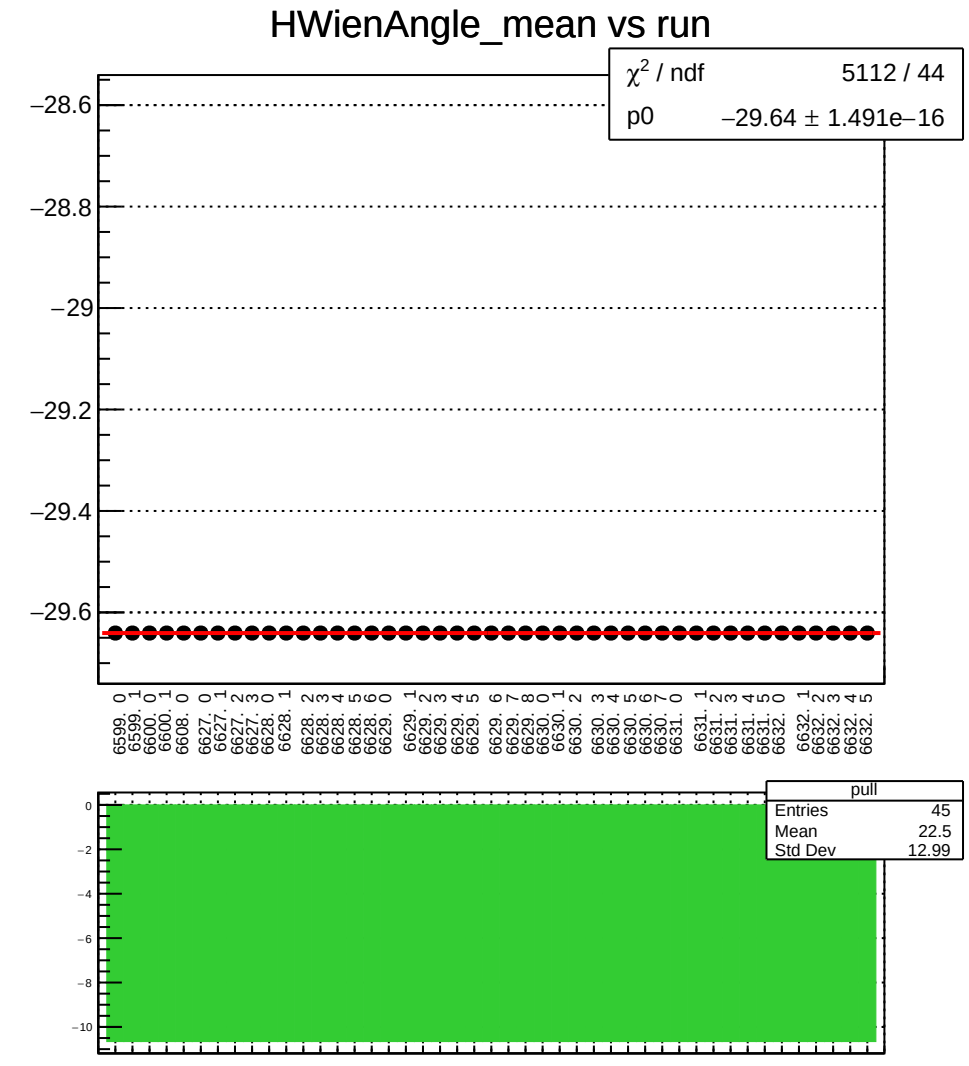

hesDipole_current_mean vs run
χ² / ndf 0.0001354 / 44
p0 0.009375 ± 1.491e−16
×10⁻³
9.375
pull
Entries 45
Mean 22.5
Std Dev 12.99

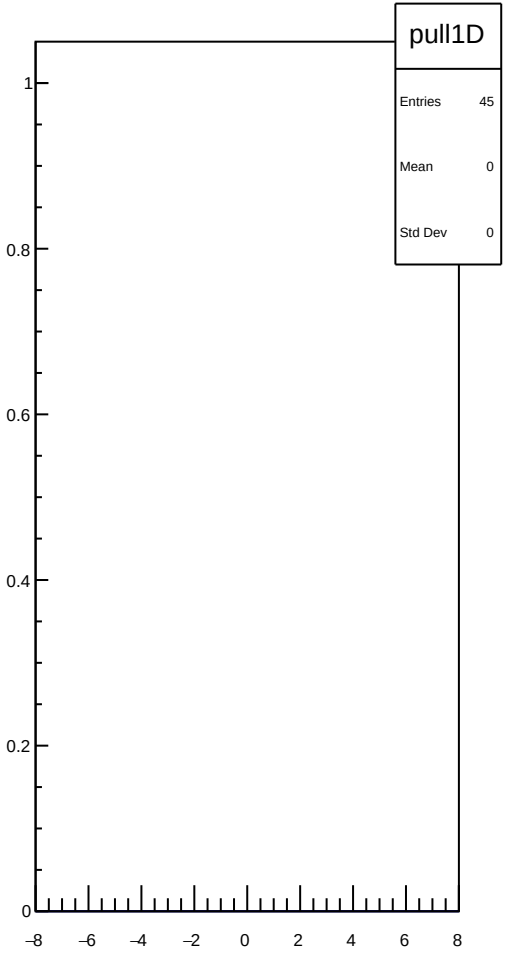

pull1D
Entries 45
Mean −0.001735
Std Dev 0

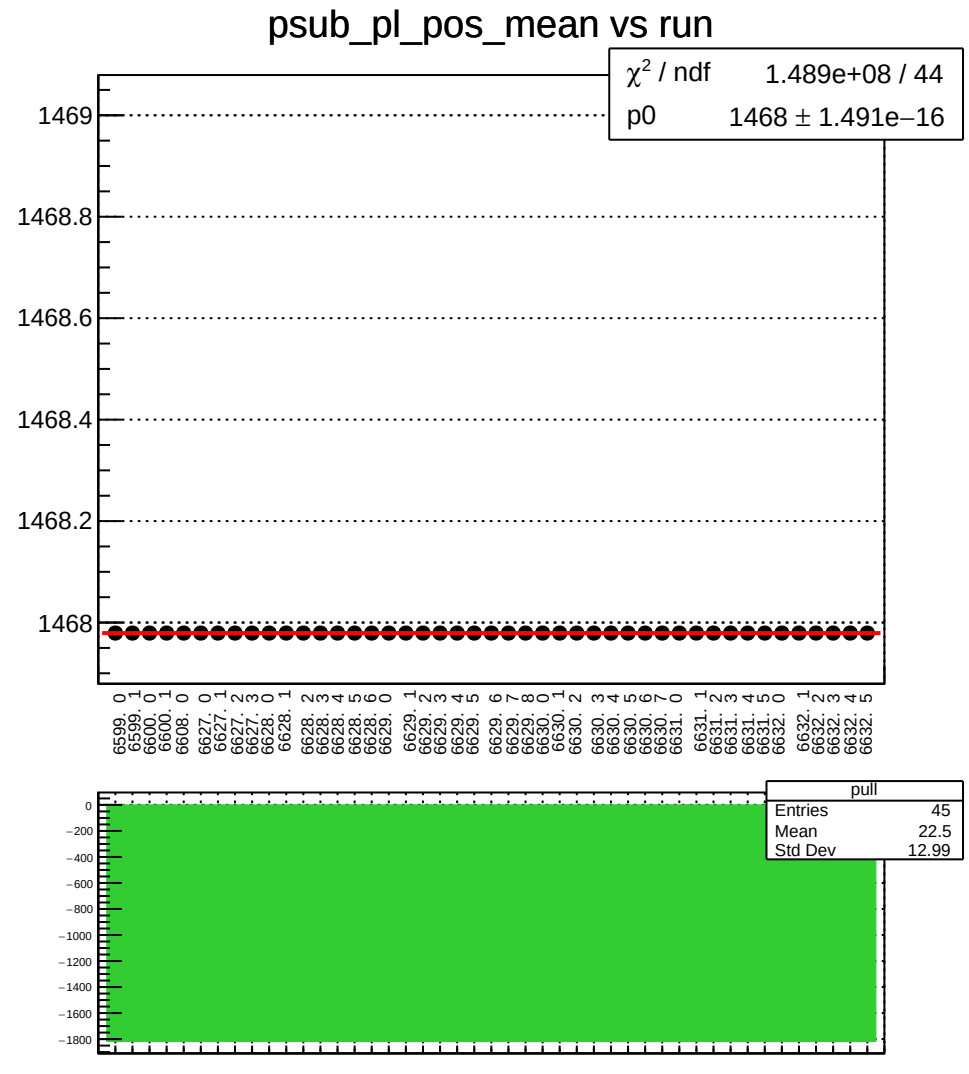

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.0001354 / 44
p0 0.009375 ± 1.491e−16
×10⁻³
pull
Entries 45
Mean 22.5
Std Dev 12.99

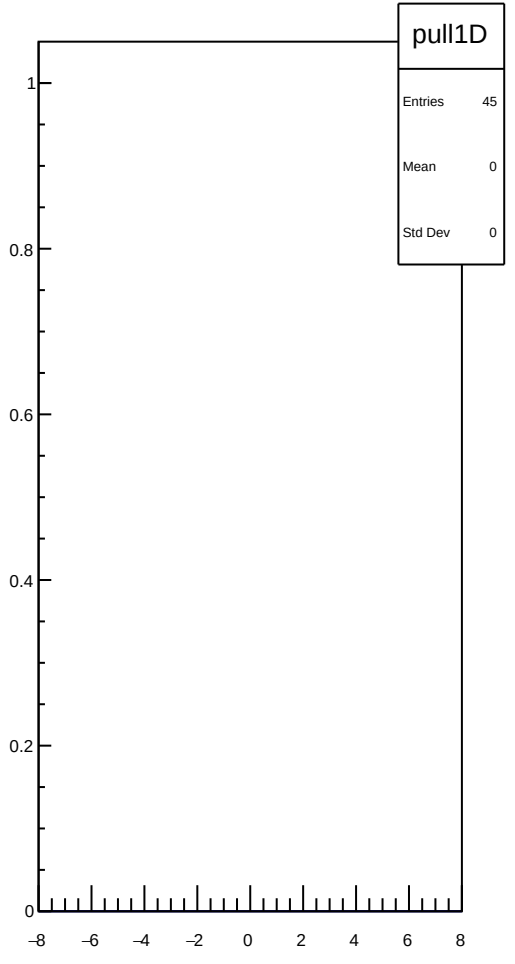

pull1D
Entries 45
Mean −0.001735
Std Dev 0

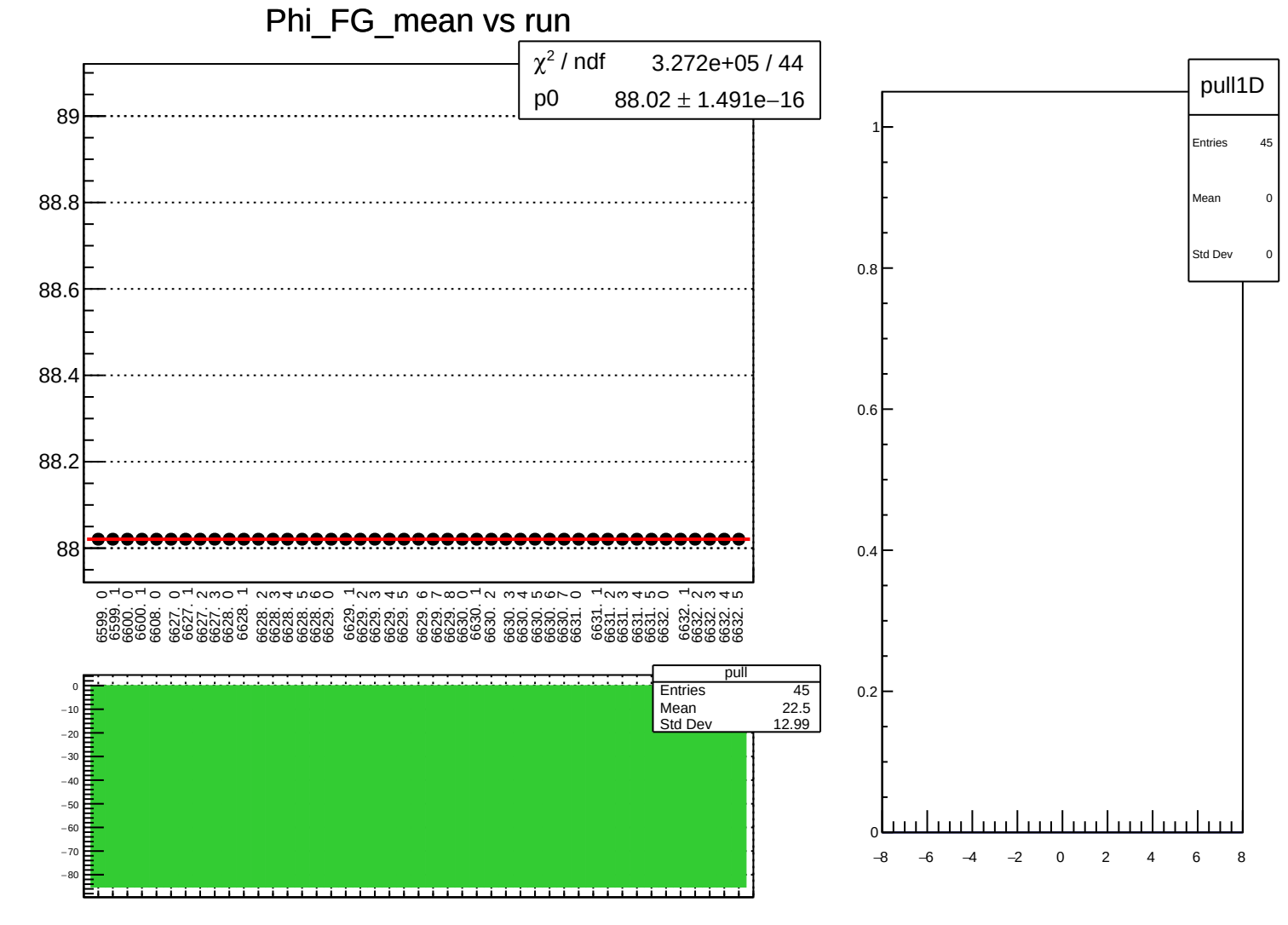

VWienAngle_mean vs run
χ² / ndf 2.272e+05 / 44
p0 −90.6 ± 1.491e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 22.5
Std Dev 12.99
0
10
20
30
40
50
60
70
pull1D
Entries 45
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
−8
−6
−4
−2
0
2
4
6
8

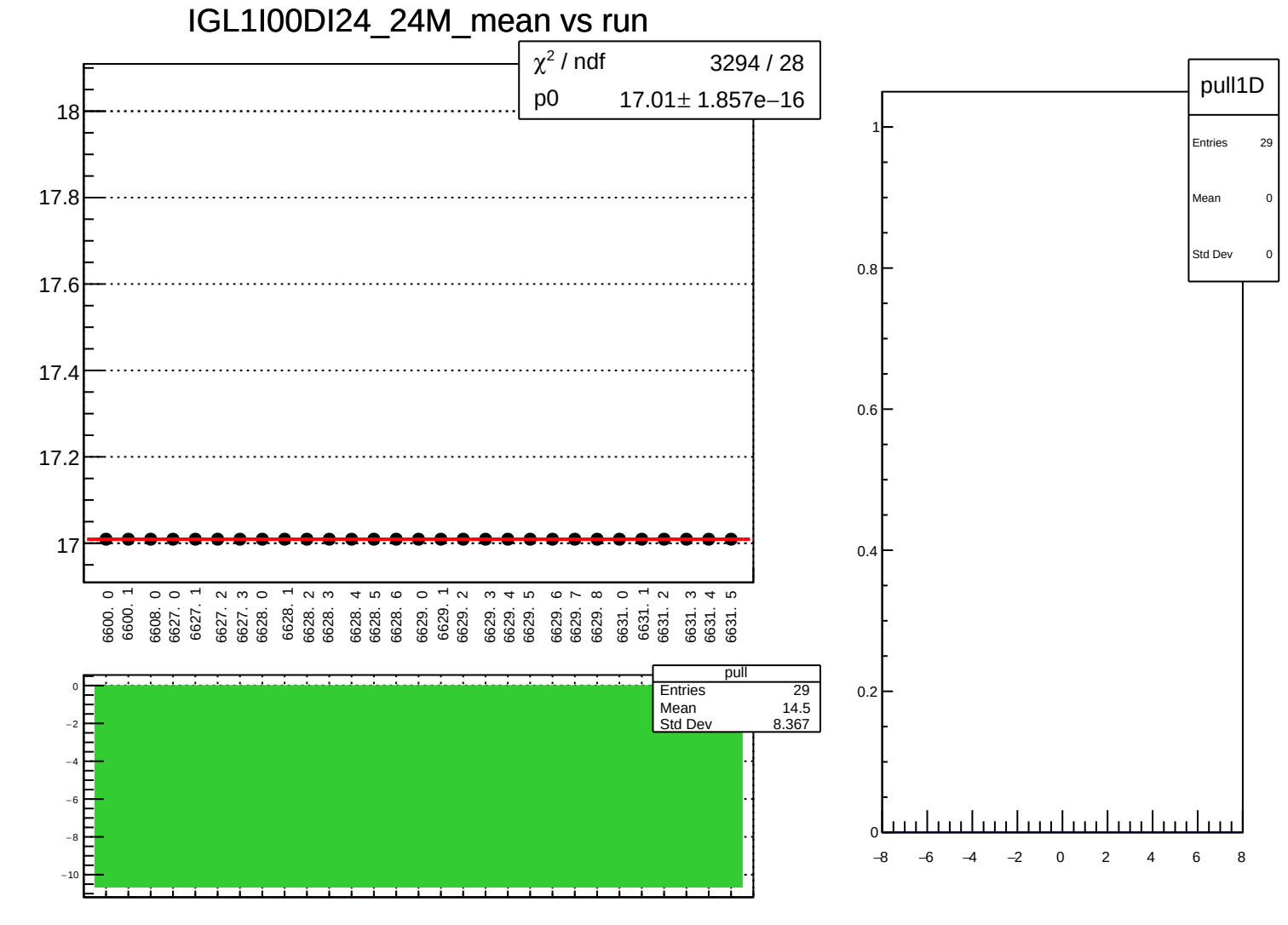

HWienAngle_mean vs run
χ² / ndf 5112 / 44
p0 −29.64 ± 1.491e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 22.5
Std Dev 12.99
0
−2
−4
−6
−8
−10

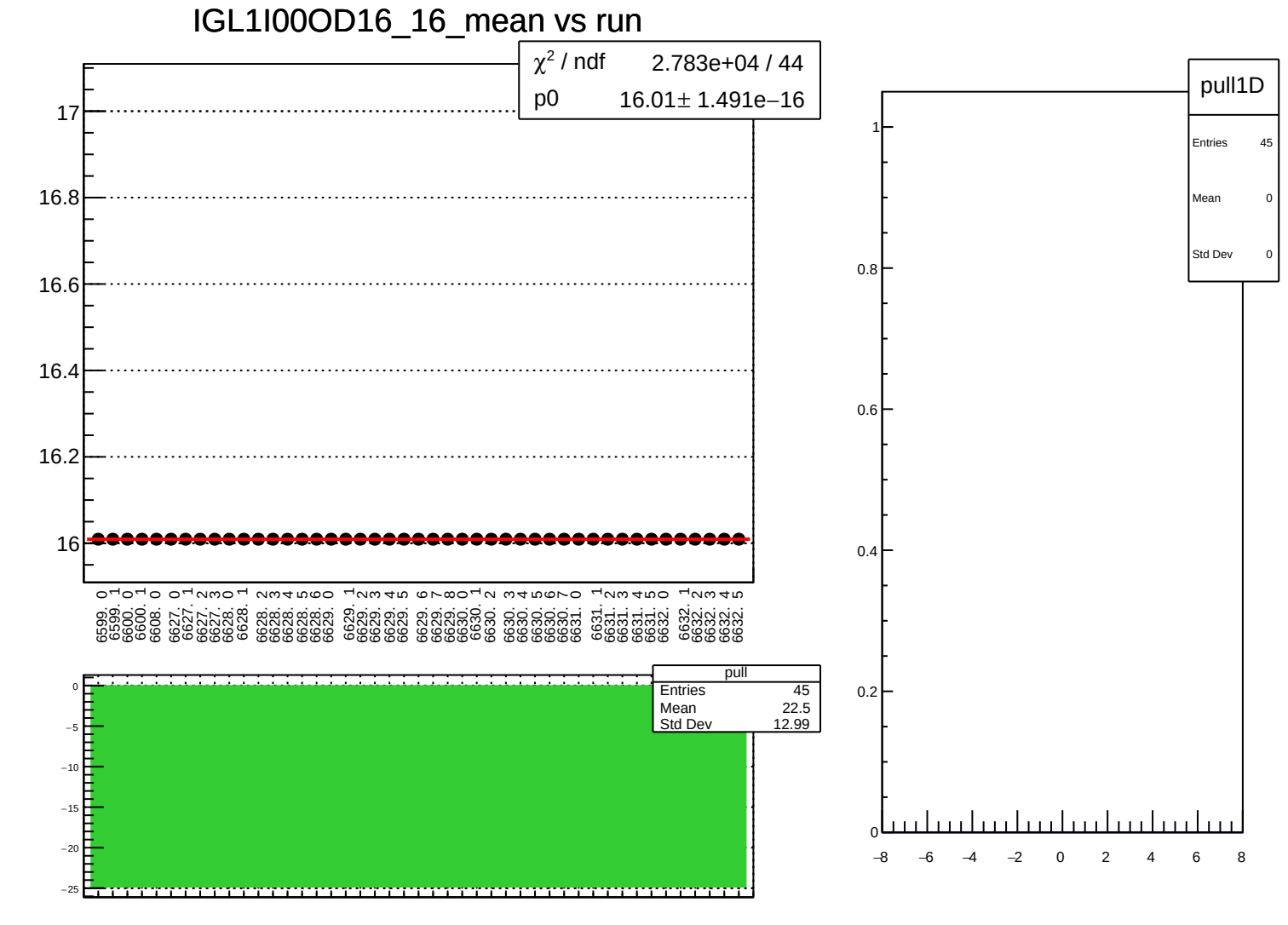

pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

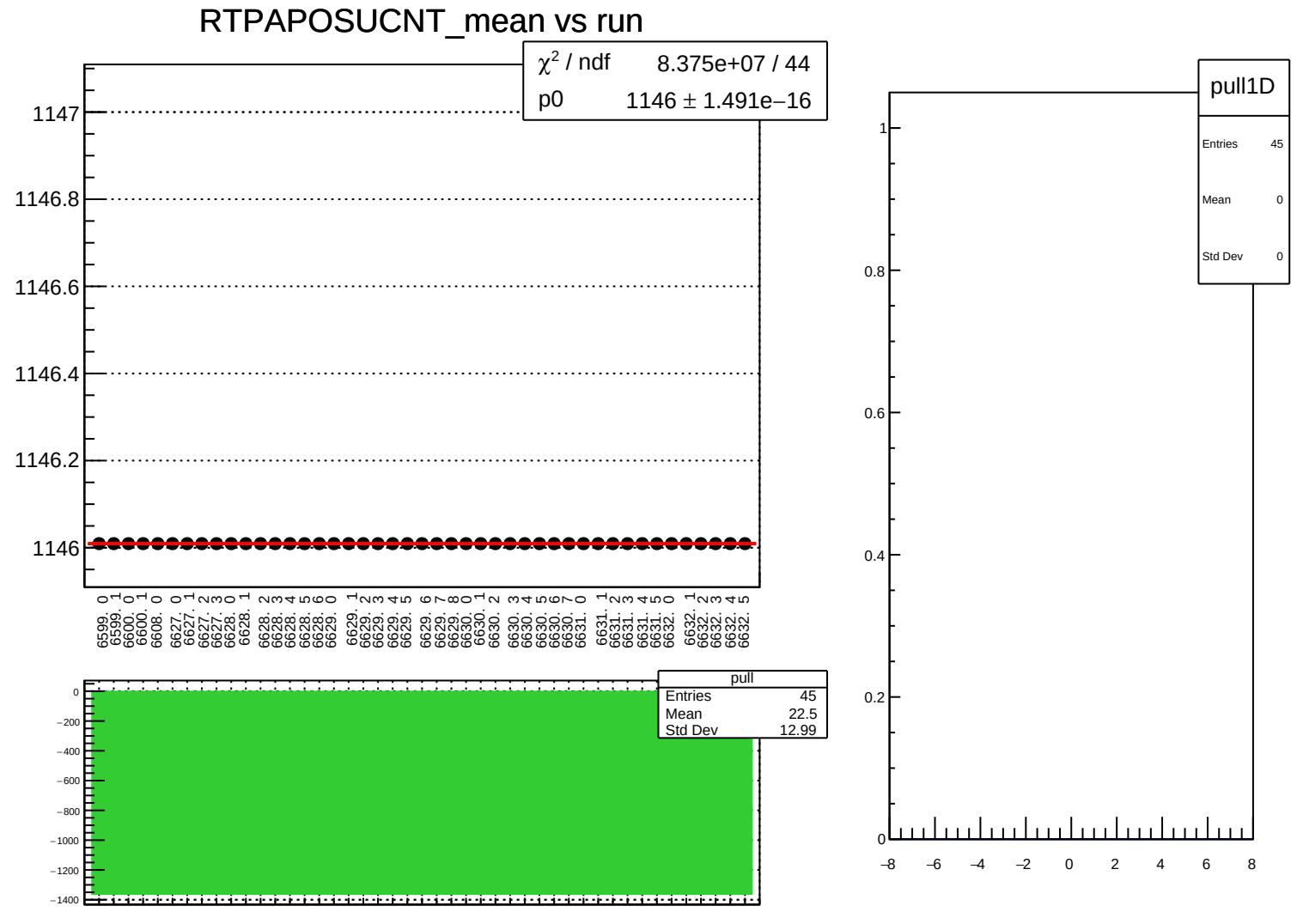

psub_pl_pos_mean vs run
χ² / ndf 1.489e+08 / 44
p0 1468 ± 1.491e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 22.5
Std Dev 12.99
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
−1800


pull1D
Entries 45
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 3.272e+05 / 44
p0 88.02 ± 1.491e−16
89
88.8
88.6
88.4
88.2
88
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 22.5
Std Dev 12.99
0
−10
−20
−30
−40
−50
−60
−70
−80
pull1D
Entries 45
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 3294 / 28
p0 17.01± 1.857e−16
18
17.8
17.6
17.4
17.2
17
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
pull
Entries 29
Mean 14.5
Std Dev 8.367
0
−2
−4
−6
−8
−10
pull1D
Entries 29
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 2.783e+04 / 44
p0 16.01± 1.491e−16
17
16.8
16.6
16.4
16.2
16
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 22.5
Std Dev 12.99
0
−5
−10
−15
−20
−25
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSUCNT_mean vs run
χ² / ndf 8.375e+07 / 44
p0 1146 ± 1.491e−16
1147
1146.8
1146.6
1146.4
1146.2
1146
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
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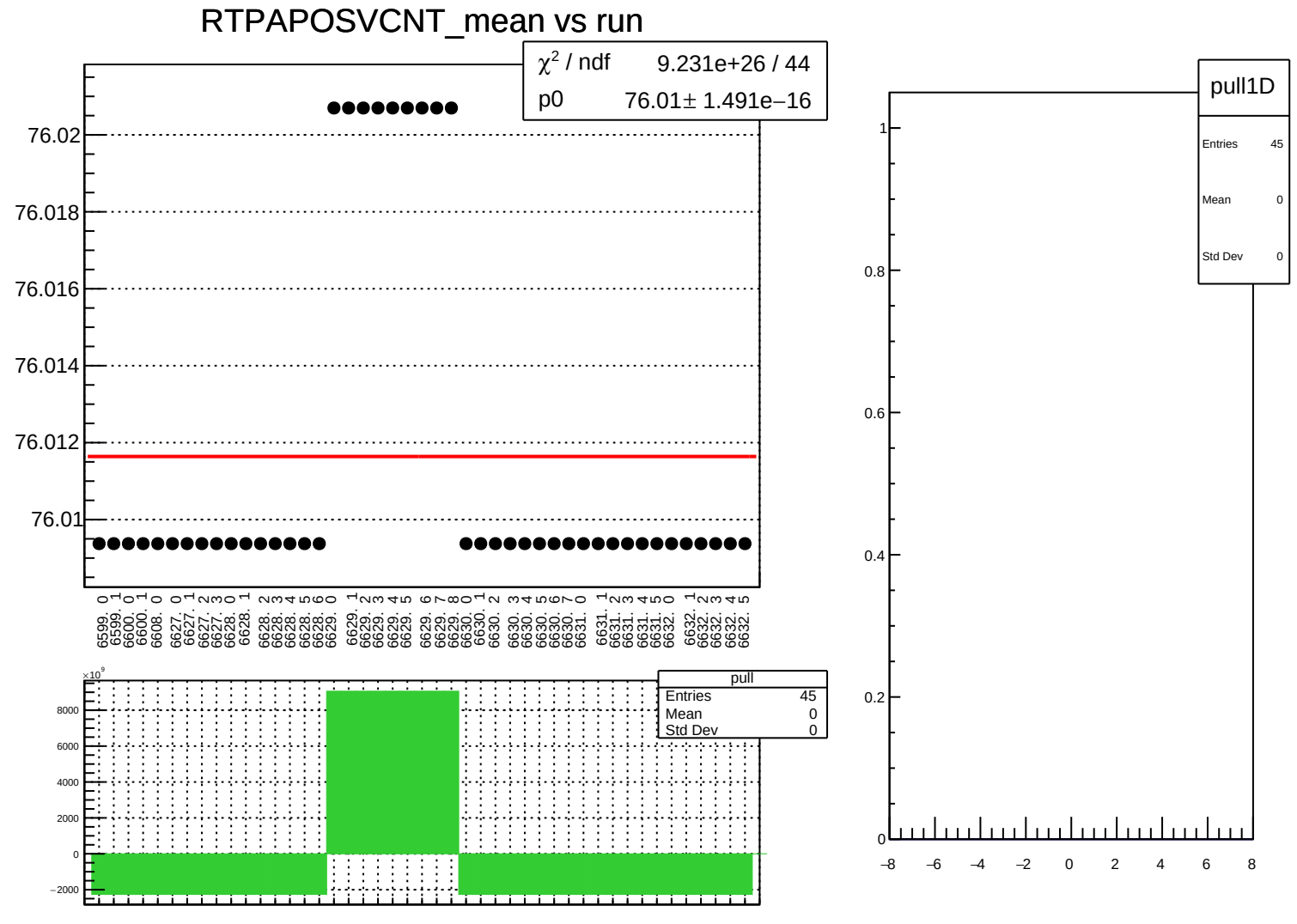
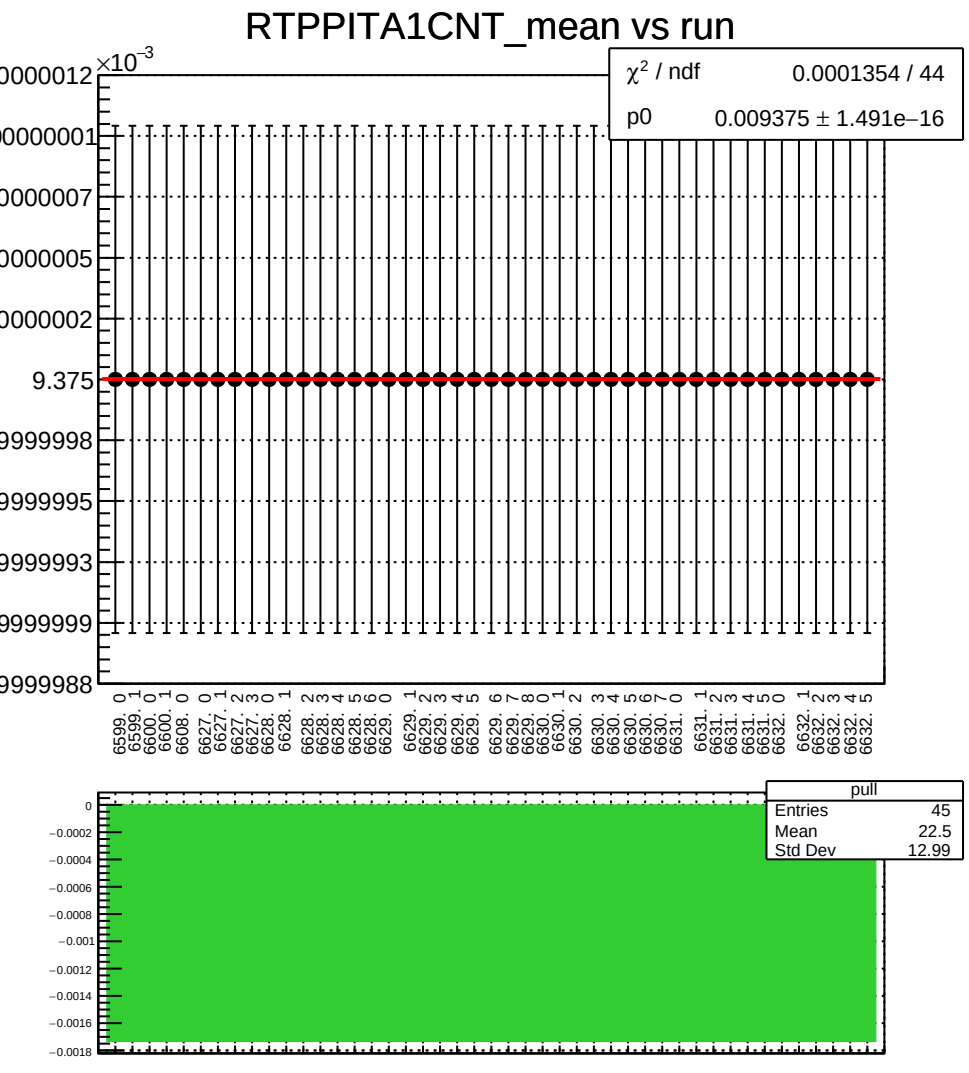
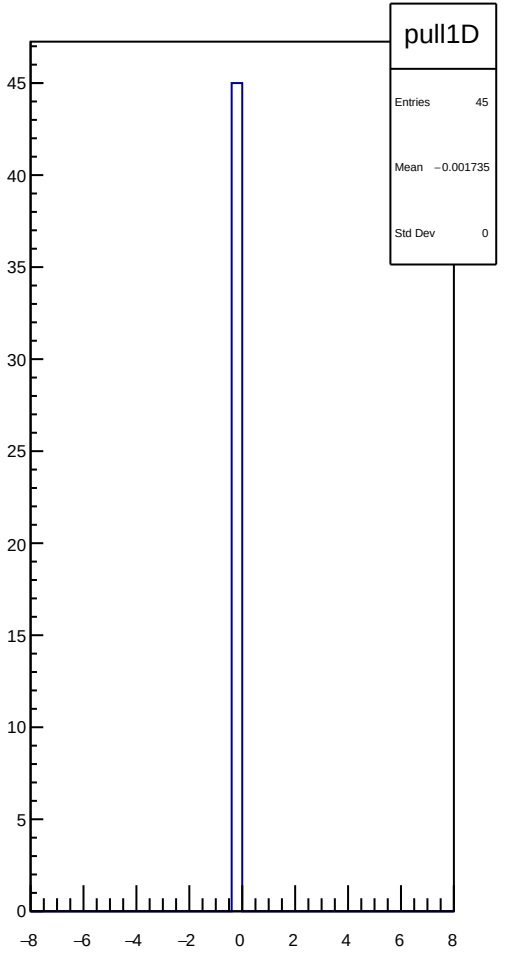
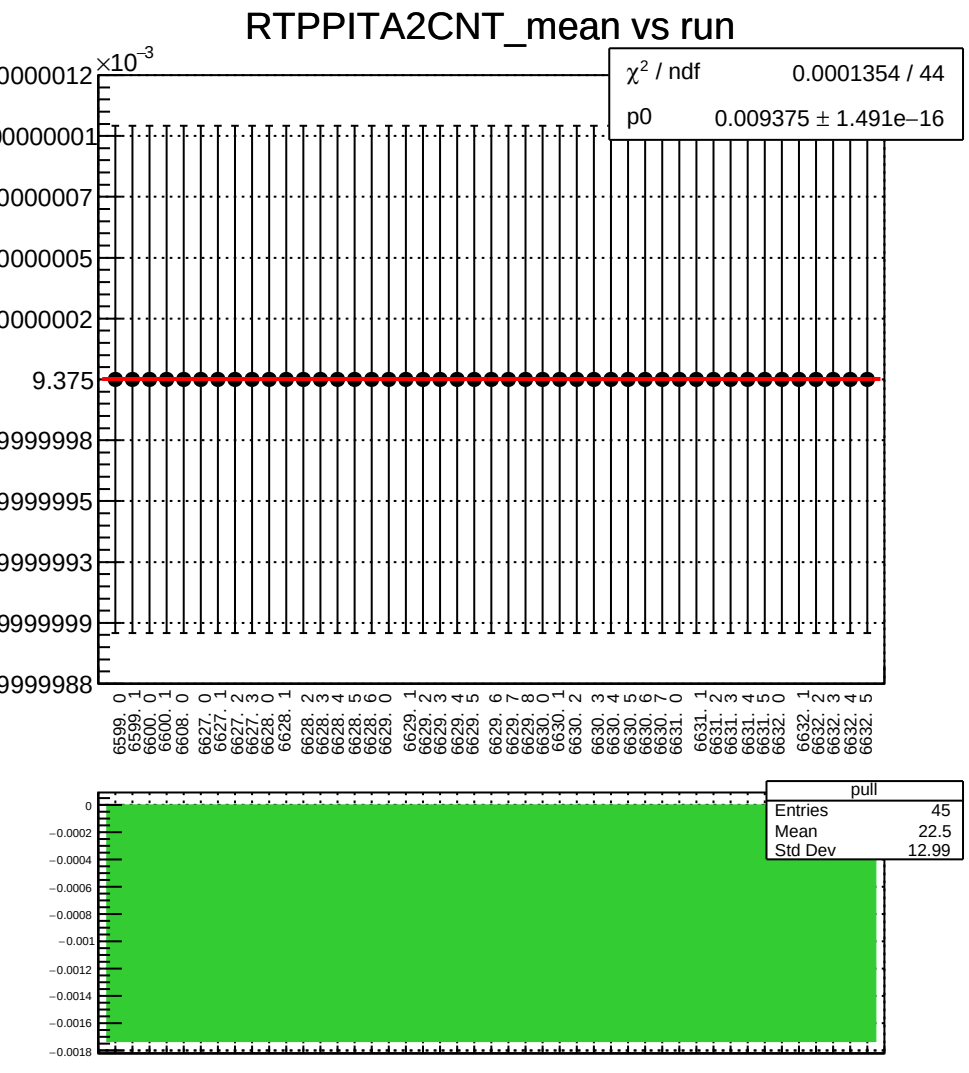
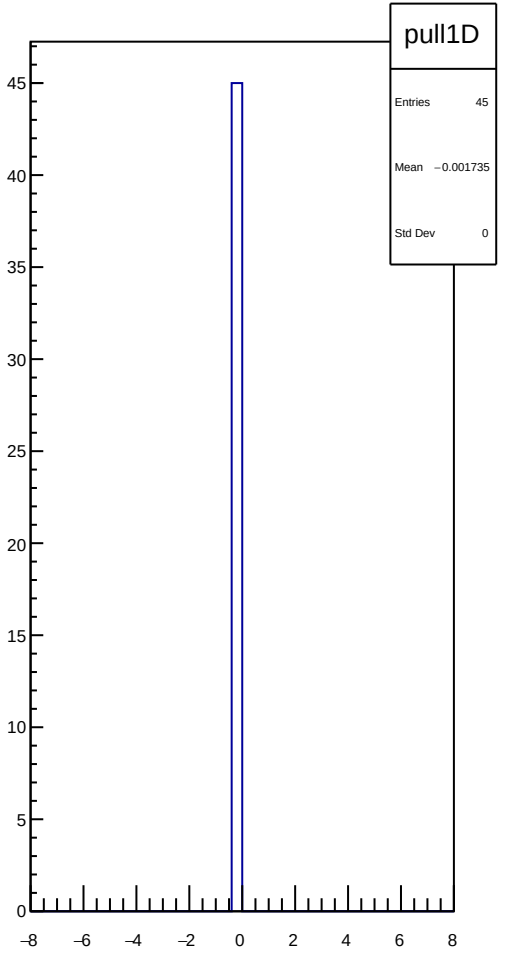
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
pull
Entries 45
Mean 22.5
Std Dev 12.99
0
−200
−400
−600
−800
−1000
−1200
−1400
pull1D
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 9.231e+26 / 44
p0 76.01± 1.491e−16
76.02
76.018
76.016
76.014
76.012
76.01
6599. 0
6599. 1
6600. 0
6600. 1
6608. 0
6627. 0
6627. 1
6627. 2
6627. 3
6628. 0
6628. 1
6628. 2
6628. 3
6628. 4
6628. 5
6628. 6
6629. 0
6629. 1
6629. 2
6629. 3
6629. 4
6629. 5
6629. 6
6629. 7
6629. 8
6630. 0
6630. 1
6630. 2
6630. 3
6630. 4
6630. 5
6630. 6
6630. 7
6631. 0
6631. 1
6631. 2
6631. 3
6631. 4
6631. 5
6632. 0
6632. 1
6632. 2
6632. 3
6632. 4
6632. 5
×10⁹
8000
6000
4000
2000
0
−2000
pull
Entries 45
Mean 0
Std Dev 0
pull1D
Entries 45
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
χ² / ndf 0.0001354 / 44
p0 0.009375 ± 1.491e−16
×10⁻³
pull
Entries 45
Mean 22.5
Std Dev 12.99


pull1D
Entries 45
Mean −0.001735
Std Dev 0


RTPPITA2CNT_mean vs run
χ² / ndf 0.0001354 / 44
p0 0.009375 ± 1.491e−16
×10⁻³
pull
Entries 45
Mean 22.5
Std Dev 12.99


pull1D
Entries 45
Mean −0.001735
Std Dev 0