dit_asym_us_avg_mean vs run
×10^3
χ² / ndf 50.94 / 44
p0 3537 ± 1205
pull
Entries 45
Mean 55.96
Std Dev 39.14

pull1D
Entries 45
Mean 0.03214
Std Dev 1.063

dit_asym_us_avg_rms vs run
χ² / ndf 582.8 / 44
p0 791.1 ± 0.8523
880
860
840
820
800
780
760
740
720
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_us_avg_correction_mean vs run
×10^3
χ² / ndf 40.56 / 44
p0 −948.7 ± 2334
pull
Entries 45
Mean 686.4
Std Dev 661

pull1D
Entries 45
Mean −0.002727
Std Dev 0.9494

asym_us_avg_correction_rms vs run
χ² / ndf 574.3 / 44
p0 1532 ± 1.65
1650
1600
1550
1500
1450
1400
1350
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_us_avg_mean vs run
×10^3
χ^2 / ndf 47.2 / 44
p0 4522 ± 2656
pull
Entries 45
Mean 131
Std Dev 107

pull1D
Entries 45
Mean 0.01912
Std Dev 1.024

asym_us_avg_rms vs run
χ² / ndf 2288 / 44
p0 1742 ± 1.878
2000
1900
1800
1700
1600
1500
1400
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_us_dd_mean vs run
χ² / ndf 41.36 / 44
p0 378.9 ± 1209
20000
0
−20000
−40000
−60000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −169.2
Std Dev 196.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.005215
Std Dev 0.9587
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_us_dd_rms vs run
χ² / ndf 4149 / 44
p0 792 ± 0.855
950
900
850
800
750
700
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_us_dd_correction_mean vs run
×10^3
χ^2 / ndf 47.84 / 44
p0 −4139 ± 2982
100
50
0
−50
−100
−150
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 150.1
Std Dev 125
3
2
1
0
−1
−2

pull1D
Entries 45
Mean −0.0178
Std Dev 1.031
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_us_dd_correction_rms vs run
χ2 / ndf 1.007e+04 / 44
p0 1947 ± 2.109
2600
2400
2200
2000
1800
1600
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_us_dd_mean vs run
×10^3
χ² / ndf 36.87 / 44
p0 −797.4 ± 2668
pull
Entries 45
Mean −24.7
Std Dev 33.97

pull1D
Entries 45
Mean 0.01643
Std Dev 0.905

asym_us_dd_rms vs run
χ² / ndf 4514 / 44
p0 1747 ± 1.886
2200
2100
2000
1900
1800
1700
1600
1500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_usl_mean vs run
×10^3
χ² / ndf 41.07 / 44
p0 3725 ± 1677
pull
Entries 45
Mean 27.49
Std Dev 21.71

pull1D
Entries 45
Mean 0.03576
Std Dev 0.9547

dit_asym_usl_rms vs run
χ² / ndf 93.13 / 44
p0 1101 ± 1.186
1160
1140
1120
1100
1080
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_usl_correction_mean vs run
×10^3
χ^2 / ndf 32.65 / 44
p0 103.5 ± 2056
50
0
−50
−100
−150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 101.7
Std Dev 62.71
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 45
Mean −0.01803
Std Dev 0.8517
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_usl_correction_rms vs run
χ² / ndf 570.4 / 44
p0 1349 ± 1.453
1450
1400
1350
1300
1250
1200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_usl_mean vs run
×10^3
χ² / ndf 34.99 / 44
p0 3530 ± 2616
pull
Entries 45
Mean 54.78
Std Dev 21.85

pull1D
Entries 45
Mean 0.04046
Std Dev 0.8809

asym_usl_rms vs run
χ² / ndf 522.8 / 44
p0 1717 ± 1.849
1850
1800
1750
1700
1650
1600
1550
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_usr_mean vs run
×10^3
χ^2 / ndf 53.77 / 44
p0 3284 ± 1732
150
100
50
0
−50
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 109.5
Std Dev 87.46
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

pull1D
Entries 45
Mean 0.01661
Std Dev 1.093
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 5513 / 44
p0 1134 ± 1.225
1400
1300
1200
1100
1000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_usr_correction_mean vs run
×10^3
χ^2 / ndf 41.26 / 44
p0 −2001 ± 4160
150
100
50
0
−50
−100
−150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −193
Std Dev 212.1
2
1
0
−1
−2

pull1D
Entries 45
Mean 0.006135
Std Dev 0.9576
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_usr_correction_rms vs run
χ2 / ndf 865.3 / 44
p0 2730 ± 2.942
3000
2900
2800
2700
2600
2500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_usr_mean vs run
×10^3
χ² / ndf 44.85 / 44
p0 5353 ± 4620
pull
Entries 45
Mean 1816
Std Dev 1796

pull1D
Entries 45
Mean 0.0009239
Std Dev 0.9983

asym_usr_rms vs run
χ² / ndf 5571 / 44
p0 3024 ± 3.267
3800
3600
3400
3200
3000
2800
2600
2400
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 26.03 / 44
p0 5291 ± 2799
pull
Entries 45
Mean 38.77
Std Dev 19.78

pull1D
Entries 45
Mean 0.02694
Std Dev 0.7601

dit_asym_at1_avg_rms vs run
χ2 / ndf 8226 / 44
p0 1829 ± 1.979
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_at1_avg_correction_mean vs run
χ² / ndf 37.31 / 44
p0 −298.3 ± 1441
40000
20000
0
−20000
−40000
−60000
−80000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 229.2
Std Dev 201.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.009595
Std Dev 0.9106
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_at1_avg_correction_rms vs run
χ2 / ndf 406.7 / 44
p0 945.6 ± 1.019
1020
1000
980
960
940
920
900
880
860
840
820
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 28.46 / 44
p0 5528 ± 3157
pull
Entries 45
Mean 65.2
Std Dev 39.63

pull1D
Entries 45
Mean 0.02922
Std Dev 0.7947

asym_at1_avg_rms vs run
χ2 / ndf 7422 / 44
p0 2064 ± 2.233
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_at1_dd_mean vs run
×10^3
χ^2 / ndf 33.51 / 44
p0 −4375 ± 2789
pull
Entries 45
Mean 151.1
Std Dev 111.6

pull1D
Entries 45
Mean −0.003948
Std Dev 0.863

dit_asym_at1_dd_rms vs run
χ2 / ndf 8249 / 44
p0 1823 ± 1.972
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_at1_dd_correction_mean vs run
×10^3
χ² / ndf 31.88 / 44
p0 −164.8 ± 1473
120
100
80
60
40
20
0
−20
−40
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 93.65
Std Dev 51.75
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 45
Mean 0.01759
Std Dev 0.8415
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_at1_dd_correction_rms vs run
χ² / ndf 750.4 / 44
p0 966.6 ± 1.041
1050
1000
950
900
850
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_at1_dd_mean vs run
×10^3
χ^2 / ndf 33.68 / 44
p0 −3913 ± 3154
50
0
−50
−100
−150
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 74.32
Std Dev 23.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 45
Mean −0.01553
Std Dev 0.865
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_at1_dd_rms vs run
χ2 / ndf 7374 / 44
p0 2062 ± 2.23
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 50.79 / 44
p0 4968 ± 3081
pull
Entries 45
Mean 45.07
Std Dev 19.4

pull1D
Entries 45
Mean 0.04277
Std Dev 1.061

dit_asym_at2_avg_rms vs run
χ2 / ndf 112.6 / 44
p0 2023 ± 2.179
2250
2200
2150
2100
2050
2000
1950
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 40.83 / 44
p0 −6795 ± 1.615e+04
400
200
0
−200
−400
−600
−800
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 900.4
Std Dev 875.4
3
2
1
0
−1

pull1D
Entries 45
Mean −0.002038
Std Dev 0.9525
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_at2_avg_correction_rms vs run
χ2 / ndf 598.1 / 44
p0 1.06e+04 ± 11.42
11500
11000
10500
10000
9500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 38.64 / 44
p0 1.192e+04 ± 1.631e+04
pull
Entries 45
Mean 212.1
Std Dev 186.8

pull1D
Entries 45
Mean 0.01037
Std Dev 0.9266

asym_at2_avg_rms vs run
χ2 / ndf 580.3 / 44
p0 1.07e+04 ± 11.53
11500
11000
10500
10000
9500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_at2_dd_mean vs run
×10^3
χ² / ndf 36.63 / 44
p0 3205 ± 2765
50
0
−50
−100
−150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 63.33
Std Dev 28.62
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 45
Mean −0.009276
Std Dev 0.9022
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_at2_dd_rms vs run
χ2 / ndf 58.38 / 44
p0 1815 ± 1.955
1900
1850
1800
1750
1700
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_at2_dd_correction_mean vs run
×10^3
χ² / ndf 38.51 / 44
p0 4481 ± 6951
200
100
0
−100
−200
−300
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 339.6
Std Dev 312.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 45
Mean −0.002733
Std Dev 0.9251
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_at2_dd_correction_rms vs run
χ² / ndf 176.8 / 44
p0 4564 ± 4.915
4800
4700
4600
4500
4400
4300
4200
4100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 39.56 / 44
p0 −1217 ± 5066
pull
Entries 45
Mean −433
Std Dev 454.7

pull1D
Entries 45
Mean −0.002184
Std Dev 0.9376

asym_at2_dd_rms vs run
χ² / ndf 493.3 / 44
p0 3326 ± 3.582
3600
3500
3400
3300
3200
3100
3000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_atl_avg_mean vs run
×10^3
χ² / ndf 49.65 / 44
p0 4950 ± 2597
pull
Entries 45
Mean 45.44
Std Dev 33.4

pull1D
Entries 45
Mean 0.0289
Std Dev 1.05

dit_asym_atl_avg_rms vs run
χ² / ndf 8778 / 44
p0 1697 ± 1.837
5500
5000
4500
4000
3500
3000
2500
2000
1500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_atl_avg_correction_mean vs run
×10^3
χ^2 / ndf 39.98 / 44
p0 −2590 ± 6874
200
100
0
−100
−200
−300
−400
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 421.5
Std Dev 395.2
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 45
Mean −0.004678
Std Dev 0.9426
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_atl_avg_correction_rms vs run
χ² / ndf 508.7 / 44
p0 4512 ± 4.861
4800
4600
4400
4200
4000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 36.83 / 44
p0 7212 ± 7338
500
400
300
200
100
0
−100
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 150.2
Std Dev 125.9
2
1
0
−1
−2
−3

pull1D
Entries 45
Mean 0.01463
Std Dev 0.9046
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_atl_avg_rms vs run
χ² / ndf 2389 / 44
p0 4811 ± 5.189
7500
7000
6500
6000
5500
5000
4500
4000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_atl_dd_mean vs run
×10^3
χ² / ndf 26.31 / 44
p0 −3943 ± 2569
pull
Entries 45
Mean 146.4
Std Dev 120.9

pull1D
Entries 45
Mean −0.006035
Std Dev 0.7646

dit_asym_atl_dd_rms vs run
χ² / ndf 8823 / 44
p0 1678 ± 1.816
5500
5000
4500
4000
3500
3000
2500
2000
1500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_atl_dd_correction_mean vs run
χ^2 / ndf 38.83 / 44
p0 2078 ± 6177
×10^3
pull
Entries 45
Mean 261
Std Dev 232.9

pull1D
Entries 45
Mean 0.007953
Std Dev 0.9289

asym_atl_dd_correction_rms vs run
χ2 / ndf 379.4 / 44
p0 4055 ± 4.367
4300
4200
4100
4000
3900
3800
3700
3600
3500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_atl_dd_mean vs run
×10^3
χ² / ndf 36.37 / 44
p0 −6144 ± 6646
200
100
0
−100
−200
−300
−400
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 247.8
Std Dev 219.9
3
2
1
0
−1

pull1D
Entries 45
Mean −0.009031
Std Dev 0.8989
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_atl_dd_rms vs run
χ2 / ndf 2720 / 44
p0 4357 ± 4.699
7000
6500
6000
5500
5000
4500
4000
3500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 40.35 / 44
p0 5486 ± 3154
pull
Entries 45
Mean 45.09
Std Dev 8.565

pull1D
Entries 45
Mean 0.04285
Std Dev 0.946

dit_asym_atr_avg_rms vs run
χ2 / ndf 72.87 / 44
p0 2071 ± 2.23
2150
2100
2050
2000
1950
1900
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 40.83 / 44
p0 −4497 ± 1.071e+04
300
200
100
0
−100
−200
−300
−400
−500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 1279
Std Dev 1255
3
2
1
0
−1

pull1D
Entries 45
Mean −0.001406
Std Dev 0.9525
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_atr_avg_correction_rms vs run
χ² / ndf 624 / 44
p0 7030 ± 7.573
7600
7400
7200
7000
6800
6600
6400
6200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_atr_avg_mean vs run
×10^3
χ² / ndf 40.94 / 44
p0 1.004e+04 ± 1.109e+04
600
400
200
0
−200
−400
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 160.9
Std Dev 134.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

pull1D
Entries 45
Mean 0.01429
Std Dev 0.9537
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_atr_avg_rms vs run
χ² / ndf 580.2 / 44
p0 7277 ± 7.84
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_atr_dd_mean vs run
×10^3
χ² / ndf 33.53 / 44
p0 3605 ± 3069
100
50
0
−50
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 78.65
Std Dev 45.03
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

pull1D
Entries 45
Mean −0.007615
Std Dev 0.8632
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_atr_dd_rms vs run
χ2 / ndf 77.06 / 44
p0 2015 ± 2.17
2200
2150
2100
2050
2000
1950
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 41.82 / 44
p0 4387 ± 9132
300
200
100
0
−100
−200
−300
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −496.5
Std Dev 518.7
2
1
0
−1
−2

pull1D
Entries 45
Mean −0.003005
Std Dev 0.964
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_atr_dd_correction_rms vs run
χ² / ndf 773.2 / 44
p0 5993 ± 6.457
6600
6400
6200
6000
5800
5600
5400
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 36.69 / 44
p0 −522.1 ± 9561
pull
Entries 45
Mean 1205
Std Dev 1182

pull1D
Entries 45
Mean −0.001367
Std Dev 0.903

asym_atr_dd_rms vs run
χ² / ndf 614.6 / 44
p0 6275 ± 6.76
6800
6600
6400
6200
6000
5800
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 46.26 / 44
p0 5090 ± 2118
pull
Entries 45
Mean 41.81
Std Dev 18.84

pull1D
Entries 45
Mean 0.04765
Std Dev 1.013

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ2 / ndf 5227 / 44
p0 1387 ± 1.498
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_atl_avg_atr_avg_avg_correction_mean vs run
×10^3
χ² / ndf 40.53 / 44
p0 −3545 ± 8768
pull
Entries 45
Mean 698.4
Std Dev 673.1

pull1D
Entries 45
Mean −0.00268
Std Dev 0.9491

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 579.7 / 44
p0 5755 ± 6.2
6200
6000
5800
5600
5400
5200
5000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 39.09 / 44
p0 8491 ± 8970
600
400
200
0
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 148.6
Std Dev 123.3
1
0
−1
−2
−3

pull1D
Entries 45
Mean 0.0155
Std Dev 0.9319
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_atl_avg_atr_avg_avg_rms vs run
χ2 / ndf 741.3 / 44
p0 5887 ± 6.343
6600
6400
6200
6000
5800
5600
5400
5200
5000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ^2 / ndf 41.39 / 44
p0 −272 ± 1984
×10^3
pull
Entries 45
Mean 42.91
Std Dev 33.06

pull1D
Entries 45
Mean −0.01781
Std Dev 0.9589

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ2 / ndf 5705 / 44
p0 1298 ± 1.403
3000
2500
2000
1500
1000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 41.37 / 44
p0 945.8 ± 2025
80000
60000
40000
20000
0
−20000
−40000
−60000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −361.9
Std Dev 383.1
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.003886
Std Dev 0.9589
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 789.9 / 44
p0 1329 ± 1.432
1450
1400
1350
1300
1250
1200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ² / ndf 46.26 / 44
p0 −1418 ± 2828
50
0
−50
−100
−150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 200.7
Std Dev 171.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 45
Mean −0.008229
Std Dev 1.014
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 3553 / 44
p0 1853 ± 2
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 33.18 / 44
p0 53.56 ± 2061
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 62.35
Std Dev 32
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01477
Std Dev 0.8585
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_avg_rms vs run
χ2 / ndf 5454 / 44
p0 1349 ± 1.457
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_atl_dd_atr_dd_avg_correction_mean vs run
×10^3
χ² / ndf 41.17 / 44
p0 3251 ± 7391
300
200
100
0
−100
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 1405
Std Dev 1380
2
1
0
−1
−2
−3

pull1D
Entries 45
Mean 0.001274
Std Dev 0.9565
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 620.7 / 44
p0 4851 ± 5.226
5200
5000
4800
4600
4400
4200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 37.31 / 44
p0 −3497 ± 7612
200
100
0
−100
−200
−300
−400
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 574
Std Dev 548.8
3
2
1
0
−1

pull1D
Entries 45
Mean −0.0035
Std Dev 0.9105
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 836.4 / 44
p0 4995 ± 5.382
5800
5600
5400
5200
5000
4800
4600
4400
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 25.95 / 44
p0 −4047 ± 1958
80000
60000
40000
20000
0
−20000
−40000
−60000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −32.61
Std Dev 51.85
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean 0.007575
Std Dev 0.7593
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_atl_dd_atr_dd_dd_rms vs run

asym_atl_dd_atr_dd_dd_correction_mean vs run
×10^3
χ² / ndf 37.43 / 44
p0 −1067 ± 2476
150
100
50
0
−50
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −13.49
Std Dev 30.42
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 45
Mean 0.0122
Std Dev 0.9119
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 1093 / 44
p0 1625 ± 1.751
1800
1750
1700
1650
1600
1550
1500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 31.7 / 44
p0 −2603 ± 3155
50
0
−50
−100
−150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −13.62
Std Dev 23.27
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 45
Mean −0.01029
Std Dev 0.8392
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 3070 / 44
p0 2068 ± 2.231
3400
3200
3000
2800
2600
2400
2200
2000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 38.75 / 44
p0 1077 ± 3630
pull
Entries 45
Mean 24.09
Std Dev 27.59

pull1D
Entries 45
Mean 0.01847
Std Dev 0.9278

dit_asym_atl1_rms vs run
χ2 / ndf 1.108e+04 / 44
p0 2368 ± 2.567
10000
8000
6000
4000
2000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_atl1_correction_mean vs run
χ² / ndf 36.24 / 44
p0 −464.9 ± 1356
60000
40000
20000
0
−20000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −57.21
Std Dev 63.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.009516
Std Dev 0.8974
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_atl1_correction_rms vs run
χ2 / ndf 879.9 / 44
p0 890.1 ± 0.9591
960
940
920
900
880
860
840
820
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_atl1_mean vs run
×10^3
χ^2 / ndf 39.5 / 44
p0 1775 ± 3887
200
100
0
−100
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 59.52
Std Dev 54.43
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 45
Mean 0.01255
Std Dev 0.9368
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_atl1_rms vs run
χ2 / ndf 1.068e+04 / 44
p0 2536 ± 2.749
10000
8000
6000
4000
2000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 38.99 / 44
p0 8250 ± 3642
pull
Entries 45
Mean 42
Std Dev 27.58

pull1D
Entries 45
Mean 0.03016
Std Dev 0.9304

dit_asym_atl2_rms vs run
χ² / ndf 78.57 / 44
p0 2391 ± 2.575
2500
2450
2400
2350
2300
2250
2200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 39.49 / 44
p0 −4672 ± 1.3e+04
400
200
0
−200
−400
−600
−800
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 325.2
Std Dev 298
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 45
Mean −0.00624
Std Dev 0.9367
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_atl2_correction_rms vs run
χ² / ndf 445.5 / 44
p0 8533 ± 9.191
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_atl2_mean vs run
×10^3
χ^2 / ndf 36.13 / 44
p0 1.322e+04 ± 1.338e+04
800
600
400
200
0
−200
−400
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 174.5
Std Dev 148.4
2
1
0
−1
−2
−3

pull1D
Entries 45
Mean 0.01319
Std Dev 0.8959
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_atl2_rms vs run
χ² / ndf 400.2 / 44
p0 8782 ± 9.46
9500
9000
8500
8000
7500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 23.66 / 44
p0 9247 ± 4210
pull
Entries 45
Mean 40.5
Std Dev 4.047

pull1D
Entries 45
Mean 0.02456
Std Dev 0.7247

dit_asym_atr1_rms vs run
χ2 / ndf 75 / 44
p0 2764 ± 2.977
2900
2800
2700
2600
2500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_atr1_correction_mean vs run
×10^3
χ² / ndf 34.12 / 44
p0 −104.7 ± 2579
50
0
−50
−100
−150
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 131.6
Std Dev 98.5
2
1.5
1
0.5
0
−0.5
−1

pull1D
Entries 45
Mean −0.01653
Std Dev 0.8706
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_atr1_correction_rms vs run
χ2 / ndf 357.4 / 44
p0 1693 ± 1.824
1800
1750
1700
1650
1600
1550
1500
1450
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_atr1_mean vs run
×10^3
χ^2 / ndf 25.91 / 44
p0 9443 ± 4928
500
400
300
200
100
0
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 67.52
Std Dev 33.72
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 45
Mean 0.0299
Std Dev 0.7582
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_atr1_rms vs run
χ² / ndf 101 / 44
p0 3236 ± 3.485
3400
3300
3200
3100
3000
2900
2800
2700
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_atr2_mean vs run
×10^3
χ² / ndf 48.01 / 44
p0 1803 ± 4583
pull
Entries 45
Mean 48.66
Std Dev 12.72

pull1D
Entries 45
Mean 0.0333
Std Dev 1.032

dit_asym_atr2_rms vs run
χ² / ndf 81.2 / 44
p0 3009 ± 3.241
3350
3300
3250
3200
3150
3100
3050
3000
2950
2900
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 41.38 / 44
p0 −8892 ± 1.974e+04
600
400
200
0
−200
−400
−600
−800
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −2512
Std Dev 2535
3
2
1
0
−1
−2

pull1D
Entries 45
Mean 0.0006636
Std Dev 0.9589
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_atr2_correction_rms vs run
χ2 / ndf 693.9 / 44
p0 1.295e+04 ± 13.96
14000
13500
13000
12500
12000
11500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_atr2_mean vs run
×10^3
χ² / ndf 39.91 / 44
p0 1.056e+04 ± 2.011e+04
1000
800
600
400
200
0
−200
−400
−600
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 247.2
Std Dev 222.5
1
0
−1
−2
−3

pull1D
Entries 45
Mean 0.008239
Std Dev 0.9417
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_atr2_rms vs run
χ2 / ndf 640.7 / 44
p0 1.32e+04 ± 14.22
14000
13500
13000
12500
12000
11500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_sam1_mean vs run
χ² / ndf 42.81 / 44
p0 −50.14 ± 117.9
pull
Entries 45
Mean −1236
Std Dev 1268

pull1D
Entries 45
Mean 0.001821
Std Dev 0.9753

dit_asym_sam1_rms vs run

asym_sam1_correction_mean vs run
χ² / ndf 51.36 / 44
p0 433.7 ± 607.9
10000
0
−10000
−20000
−30000
−40000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 42.08
Std Dev 28.24
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02071
Std Dev 1.068
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam1_correction_rms vs run
χ^2 / ndf 3875 / 44
p0 398.2 ± 0.4298
480
460
440
420
400
380
360
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam1_mean vs run
χ² / ndf 51.12 / 44
p0 −481.3 ± 591.8
40000
30000
20000
10000
0
−10000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 20.02
Std Dev 27.93
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.0215
Std Dev 1.066
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam1_rms vs run
χ² / ndf 3942 / 44
p0 387.7 ± 0.4185
460
440
420
400
380
360
340
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_sam2_mean vs run
χ2 / ndf 37.49 / 44
p0 260.1 ± 581.2
30000
25000
20000
15000
10000
5000
0
−5000
−10000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −669
Std Dev 693.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.004002
Std Dev 0.9127
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam2_rms vs run
χ² / ndf 1392 / 44
p0 381.3 ± 0.411
480
460
440
420
400
380
360
340
320
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 42.5 / 44
p0 5184 ± 8609
pull
Entries 45
Mean −5.265
Std Dev 31.49

pull1D
Entries 45
Mean −0.01417
Std Dev 0.9717

asym_sam2_correction_rms vs run
χ² / ndf 1625 / 44
p0 5647 ± 6.088
6400
6200
6000
5800
5600
5400
5200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam2_mean vs run
×10^3
χ² / ndf 41.32 / 44
p0 −4964 ± 8597
500
400
300
200
100
0
−100
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −17.52
Std Dev 7.636
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 45
Mean 0.01474
Std Dev 0.9581
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam2_rms vs run
χ² / ndf 1608 / 44
p0 5639 ± 6.079
6400
6200
6000
5800
5600
5400
5200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_sam3_mean vs run
χ² / ndf 48.08 / 44
p0 −382.8 ± 562.2
pull
Entries 45
Mean −92.53
Std Dev 116.7
pull1D
Entries 45
Mean 0.02244
Std Dev 1.033

dit_asym_sam3_rms vs run
χ² / ndf 4866 / 44
p0 368.1 ± 0.3976
500
450
400
350
300
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 36.82 / 44
p0 1993 ± 5034
pull
Entries 45
Mean −32.33
Std Dev 26.9

pull1D
Entries 45
Mean −0.01091
Std Dev 0.9045

asym_sam3_correction_rms vs run
χ² / ndf 981.3 / 44
p0 3303 ± 3.56
3600
3500
3400
3300
3200
3100
3000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam3_mean vs run
×10^3
χ² / ndf 36.88 / 44
p0 −2510 ± 5076
pull
Entries 45
Mean −36.11
Std Dev 43.07

pull1D
Entries 45
Mean 0.01539
Std Dev 0.9052

asym_sam3_rms vs run
χ2 / ndf 1245 / 44
p0 3331 ± 3.59
3700
3600
3500
3400
3300
3200
3100
3000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_sam4_mean vs run
χ² / ndf 51.12 / 44
p0 −55.18 ± 622.7
pull
Entries 45
Mean −70.51
Std Dev 96.46
pull1D
Entries 45
Mean 0.02518
Std Dev 1.066

dit_asym_sam4_rms vs run
χ² / ndf 3133 / 44
p0 408.1 ± 0.4403
550
500
450
400
350
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 32.41 / 44
p0 1505 ± 7611
100
0
−100
−200
−300
−400
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −69.7
Std Dev 74.43
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 45
Mean −0.008212
Std Dev 0.8486
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam4_correction_rms vs run
χ² / ndf 623 / 44
p0 4995 ± 5.382
5300
5200
5100
5000
4900
4800
4700
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam4_mean vs run
×10^3
χ² / ndf 31.97 / 44
p0 −1764 ± 7653
pull
Entries 45
Mean −55.18
Std Dev 64.27

pull1D
Entries 45
Mean 0.01232
Std Dev 0.8428

asym_sam4_rms vs run
χ² / ndf 760.2 / 44
p0 5022 ± 5.411
5400
5300
5200
5100
5000
4900
4800
4700
4600
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_sam5_mean vs run
χ² / ndf 53.48 / 44
p0 43 ± 252.9
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −86.52
Std Dev 109.9
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.01567
Std Dev 1.09
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam5_rms vs run
χ² / ndf 237.2 / 44
p0 166 ± 0.1788
175
170
165
160
155
150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam5_correction_mean vs run
χ² / ndf 54.24 / 44
p0 −1251 ± 1156
80000
60000
40000
20000
0
−20000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 56.66
Std Dev 24.18
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.0212
Std Dev 1.098
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam5_correction_rms vs run
χ² / ndf 3624 / 44
p0 757.7 ± 0.8177
900
850
800
750
700
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam5_mean vs run
χ² / ndf 51.71 / 44
p0 1256 ± 1126
20000
0
−20000
−40000
−60000
−80000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 95.25
Std Dev 66.64
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01613
Std Dev 1.072
9
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 3922 / 44
p0 738 ± 0.7966
900
850
800
750
700
650
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_sam6_mean vs run
χ² / ndf 60.16 / 44
p0 −234 ± 304
10000
5000
0
−5000
−10000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −82.82
Std Dev 113
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01194
Std Dev 1.156
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam6_rms vs run
χ² / ndf 1105 / 44
p0 199.5 ± 0.2149
230
220
210
200
190
180
170
160
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam6_correction_mean vs run
×10^3
χ² / ndf 46.09 / 44
p0 −1953 ± 2732
150
100
50
0
−50
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 7.386
Std Dev 35.71
2
1
0
−1
−2

pull1D
Entries 45
Mean 0.01612
Std Dev 1.012
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam6_correction_rms vs run
χ² / ndf 2253 / 44
p0 1791 ± 1.932
2100
2000
1900
1800
1700
1600
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam6_mean vs run
×10^3
χ^2 / ndf 46.71 / 44
p0 1663 ± 2723
50
0
−50
−100
−150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 15.2
Std Dev 44.27
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 45
Mean −0.01311
Std Dev 1.019
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam6_rms vs run
χ² / ndf 2433 / 44
p0 1785 ± 1.926
2100
2000
1900
1800
1700
1600
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_sam7_mean vs run
χ² / ndf 49.5 / 44
p0 −167.3 ± 154.4
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 110.9
Std Dev 74.31
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.02204
Std Dev 1.049
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam7_rms vs run
χ² / ndf 763.4 / 44
p0 101.3 ± 0.1092
110
105
100
95
90
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam7_correction_mean vs run
χ² / ndf 39.09 / 44
p0 778.5 ± 1592
40000
20000
0
−20000
−40000
−60000
−80000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −12.21
Std Dev 29.75
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.01294
Std Dev 0.932
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam7_correction_rms vs run
χ² / ndf 1101 / 44
p0 1045 ± 1.126
1160
1140
1120
1100
1080
1060
1040
1020
1000
980
960
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam7_mean vs run
χ² / ndf 37.4 / 44
p0 −980.7 ± 1594
80000
60000
40000
20000
0
−20000
−40000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −28.17
Std Dev 27.92
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01255
Std Dev 0.9116
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam7_rms vs run
χ² / ndf 1173 / 44
p0 1046 ± 1.127
1150
1100
1050
1000
950
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_sam8_mean vs run
χ² / ndf 54.42 / 44
p0 −80.42 ± 126.5
2000
0
−2000
−4000
−6000
−8000
−10000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 76.25
Std Dev 24.75
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 45
Mean −0.01962
Std Dev 1.1
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam8_rms vs run
χ² / ndf 310.1 / 44
p0 83.06 ± 0.08947
87
86
85
84
83
82
81
80
79
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam8_correction_mean vs run
χ² / ndf 39.48 / 44
p0 336.8 ± 906.2
pull
Entries 45
Mean 9.926
Std Dev 43.35
pull1D
Entries 45
Mean −0.01478
Std Dev 0.9365

asym_sam8_correction_rms vs run
χ2 / ndf 1292 / 44
p0 594.5 ± 0.6407
660
640
620
600
580
560
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam8_mean vs run
χ² / ndf 37.45 / 44
p0 −449.3 ± 905.5
50000
40000
30000
20000
10000
0
−10000
−20000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −0.6624
Std Dev 29.97
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01481
Std Dev 0.9121
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam8_rms vs run
χ² / ndf 1364 / 44
p0 594.1 ± 0.6403
660
640
620
600
580
560
540
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_sam_15_avg_mean vs run
χ² / ndf 51.91 / 44
p0 −11.96 ± 114.3
3000
2000
1000
0
−1000
−2000
−3000
−4000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −109.1
Std Dev 135.4
2
1
0
−1
−2
−3

pull1D
Entries 45
Mean 0.02336
Std Dev 1.074
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam_15_avg_rms vs run
χ² / ndf 692.6 / 44
p0 75.03 ± 0.08083
82
80
78
76
74
72
70
68
66
64
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_15_avg_correction_mean vs run
χ² / ndf 44.51 / 44
p0 −388.4 ± 365.3
20000
15000
10000
5000
0
−5000
−10000
7776. 0
7776. 1
7776. 2
7776. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 85.99
Std Dev 64.48
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.0125
Std Dev 0.9945
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_15_avg_correction_rms vs run
χ2 / ndf 1253 / 44
p0 239.7 ± 0.2583
270
260
250
240
230
220
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_15_avg_mean vs run
χ² / ndf 39.24 / 44
p0 383.2 ± 367.6
10000
5000
0
−5000
−10000
−15000
−20000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 276.2
Std Dev 251.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.007194
Std Dev 0.9338
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_15_avg_rms vs run
χ² / ndf 1584 / 44
p0 241.1 ± 0.2599
270
260
250
240
230
220
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_sam_26_avg_mean vs run
χ² / ndf 38.56 / 44
p0 −0.3934 ± 326.8
15000
10000
5000
0
−5000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −226.9
Std Dev 252.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01211
Std Dev 0.9256
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam_26_avg_rms vs run
χ² / ndf 3138 / 44
p0 214.2 ± 0.2311
280
260
240
220
200
180
160
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_26_avg_correction_mean vs run
×10^3
χ² / ndf 40.81 / 44
p0 1618 ± 2957
50
0
−50
−100
−150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −12.32
Std Dev 26.27
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 45
Mean −0.01323
Std Dev 0.9522
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_26_avg_correction_rms vs run
χ² / ndf 1376 / 44
p0 1940 ± 2.091
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_26_avg_mean vs run
×10^3
χ² / ndf 39 / 44
p0 −1655 ± 2970
150
100
50
0
−50
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −30.01
Std Dev 35.31
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 45
Mean 0.01543
Std Dev 0.9308
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 1485 / 44
p0 1948 ± 2.1
2150
2100
2050
2000
1950
1900
1850
1800
1750
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_sam_37_avg_mean vs run
χ² / ndf 47.98 / 44
p0 −277.4 ± 338.8
10000
5000
0
−5000
−10000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −182.7
Std Dev 208.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.0128
Std Dev 1.032
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam_37_avg_rms vs run
χ² / ndf 4217 / 44
p0 221.9 ± 0.2396
300
280
260
240
220
200
180
160
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_37_avg_correction_mean vs run
×10^3
χ^2 / ndf 37.35 / 44
p0 1386 ± 3312
50
0
−50
−100
−150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −26.86
Std Dev 14.35
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 45
Mean −0.0114
Std Dev 0.9109
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_37_avg_correction_rms vs run
χ2 / ndf 1010 / 44
p0 2173 ± 2.342
2400
2350
2300
2250
2200
2150
2100
2050
2000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_37_avg_mean vs run
×10^3
χ² / ndf 36.99 / 44
p0 −1745 ± 3333
150
100
50
0
−50
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −34.51
Std Dev 40.34
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 45
Mean 0.01472
Std Dev 0.9065
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_37_avg_rms vs run
χ2 / ndf 1214 / 44
p0 2187 ± 2.357
2400
2300
2200
2100
2000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_sam_48_avg_mean vs run
χ² / ndf 51.45 / 44
p0 −70.31 ± 347.2
10000
5000
0
−5000
−10000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −99.2
Std Dev 127.5
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01905
Std Dev 1.069
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 2909 / 44
p0 227.6 ± 0.2455
300
280
260
240
220
200
180
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_48_avg_correction_mean vs run
×10^3
χ^2 / ndf 33.01 / 44
p0 918.9 ± 4242
pull
Entries 45
Mean −56.21
Std Dev 58.2

pull1D
Entries 45
Mean −0.008916
Std Dev 0.8565

asym_sam_48_avg_correction_rms vs run
χ2 / ndf 661.5 / 44
p0 2784 ± 2.999
3000
2950
2900
2850
2800
2750
2700
2650
2600
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_48_avg_mean vs run
×10^3
χ² / ndf 32.38 / 44
p0 −1110 ± 4263
200
150
100
50
0
−50
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −48.24
Std Dev 56.27
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.01268
Std Dev 0.8482
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_48_avg_rms vs run
χ² / ndf 794.5 / 44
p0 2798 ± 3.014
3000
2900
2800
2700
2600
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_sam_15_dd_mean vs run
χ² / ndf 51.21 / 44
p0 −48.79 ± 160.7
6000
4000
2000
0
−2000
−4000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −24.88
Std Dev 32.61
2
1
0
−1
−2

pull1D
Entries 45
Mean −0.01062
Std Dev 1.067
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 162.4 / 44
p0 105.5 ± 0.1137
110
108
106
104
102
100
98
96
94
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_15_dd_correction_mean vs run
χ² / ndf 55.39 / 44
p0 847 ± 848.3
20000
10000
0
−10000
−20000
−30000
−40000
−50000
−60000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 51.95
Std Dev 9.629
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02218
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_dd_correction_rms vs run
χ2 / ndf 4261 / 44
p0 555.6 ± 0.5998
680
660
640
620
600
580
560
540
520
500
480
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_15_dd_mean vs run
χ² / ndf 54.09 / 44
p0 −862.8 ± 820.9
pull
Entries 45
Mean 66.85
Std Dev 33.4
pull1D
Entries 45
Mean 0.01803
Std Dev 1.096

asym_sam_15_dd_rms vs run
χ² / ndf 4558 / 44
p0 537.6 ± 0.5805
660
640
620
600
580
560
540
520
500
480
460
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_sam_26_dd_mean vs run
χ² / ndf 46.32 / 44
p0 244.8 ± 328.4
20000
15000
10000
5000
0
−5000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 1031
Std Dev 1009
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.001895
Std Dev 1.015
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 283.8 / 44
p0 215.6 ± 0.2322
230
220
210
200
190
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 43.38 / 44
p0 3567 ± 5661
100
0
−100
−200
−300
7776. 0
7776. 1
7776. 0
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −1.914
Std Dev 33.15
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 45
Mean −0.01466
Std Dev 0.9817
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_26_dd_correction_rms vs run
χ² / ndf 1767 / 44
p0 3713 ± 4.003
4200
4100
4000
3900
3800
3700
3600
3500
3400
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 42.59 / 44
p0 −3309 ± 5642
300
200
100
0
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −10.43
Std Dev 25.67
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 45
Mean 0.01434
Std Dev 0.9727
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_26_dd_rms vs run
χ2 / ndf 1738 / 44
p0 3701 ± 3.99
4200
4100
4000
3900
3800
3700
3600
3500
3400
3300
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_sam_37_dd_mean vs run
χ² / ndf 48.72 / 44
p0 −104.7 ± 235.1
15000
10000
5000
0
−5000
7776. 0
7776. 1
7776. 2
7776. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −45.96
Std Dev 66.96
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

pull1D
Entries 45
Mean 0.03517
Std Dev 1.04
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam_37_dd_rms vs run
χ2 / ndf 5032 / 44
p0 153.9 ± 0.1663
220
200
180
160
140
120
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_37_dd_correction_mean vs run
χ² / ndf 35.86 / 44
p0 607.1 ± 1724
40000
20000
0
−20000
−40000
−60000
−80000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −44.32
Std Dev 45.47
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.009956
Std Dev 0.8927
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_37_dd_correction_rms vs run
χ^2 / ndf 928.2 / 44
p0 1131 ± 1.219
1240
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_37_dd_mean vs run
×10^3
χ² / ndf 36.72 / 44
p0 −764.2 ± 1745
pull
Entries 45
Mean −38.8
Std Dev 47.4

pull1D
Entries 45
Mean 0.01663
Std Dev 0.9032

asym_sam_37_dd_rms vs run
χ² / ndf 1326 / 44
p0 1145 ± 1.234
1250
1200
1150
1100
1050
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_sam_48_dd_mean vs run
χ² / ndf 51.09 / 44
p0 14.34 ± 285.3
pull
Entries 45
Mean −48.69
Std Dev 71.72
pull1D
Entries 45
Mean 0.03217
Std Dev 1.065

dit_asym_sam_48_dd_rms vs run
χ2 / ndf 3122 / 44
p0 187 ± 0.2017
260
240
220
200
180
160
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_48_dd_correction_mean vs run
×10^3
χ² / ndf 31.71 / 44
p0 586.4 ± 3373
50
0
−50
−100
−150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −89.98
Std Dev 97.29
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 45
Mean −0.007333
Std Dev 0.8394
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_48_dd_correction_rms vs run
χ2 / ndf 583.2 / 44
p0 2214 ± 2.385
2350
2300
2250
2200
2150
2100
2050
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_48_dd_mean vs run
×10^3
χ^2 / ndf 31.51 / 44
p0 −654 ± 3394
150
100
50
0
−50
7776. 0
7776. 1
7776. 2
7776. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −64.5
Std Dev 74.67
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 45
Mean 0.01183
Std Dev 0.8367
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_48_dd_rms vs run
χ² / ndf 724.7 / 44
p0 2228 ± 2.4
2400
2350
2300
2250
2200
2150
2100
2050
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 39.23 / 44
p0 −61.43 ± 133.5
8000
6000
4000
2000
0
−2000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −85.7
Std Dev 109
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01736
Std Dev 0.9335
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam_13_57_dd_rms vs run
χ2 / ndf 2697 / 44
p0 87.53 ± 0.09441
110
100
90
80
70
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_13_57_dd_correction_mean vs run
χ2 / ndf 46.1 / 44
p0 678.1 ± 1135
20000
0
−20000
−40000
−60000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 7.609
Std Dev 35.29
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01769
Std Dev 1.012
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 2154 / 44
p0 744.1 ± 0.8023
860
840
820
800
780
760
740
720
700
680
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_13_57_dd_mean vs run
χ² / ndf 44.64 / 44
p0 −819.8 ± 1134
60000
40000
20000
0
−20000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −0.4542
Std Dev 26.69
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01992
Std Dev 0.9958
8
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 2458 / 44
p0 743.5 ± 0.8018
850
800
750
700
650
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 42.17 / 44
p0 126.9 ± 150
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −473.5
Std Dev 499.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.00361
Std Dev 0.968
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 3660 / 44
p0 98.26 ± 0.106
130
120
110
100
90
80
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 39.79 / 44
p0 −941.4 ± 1640
80000
60000
40000
20000
0
−20000
−40000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −13.49
Std Dev 27.53
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01187
Std Dev 0.9402
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 1373 / 44
p0 1076 ± 1.159
1200
1150
1100
1050
1000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_15_37_dd_mean vs run
×10^3
χ^2 / ndf 39.93 / 44
p0 1061 ± 1652
pull
Entries 45
Mean −17.62
Std Dev 3.27

pull1D
Entries 45
Mean −0.01542
Std Dev 0.9419

asym_sam_15_37_dd_rms vs run
χ2 / ndf 1556 / 44
p0 1084 ± 1.168
1200
1150
1100
1050
1000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 37.61 / 44
p0 137.4 ± 191.9
pull
Entries 45
Mean −133
Std Dev 155.8

pull1D
Entries 45
Mean 0.02105
Std Dev 0.9139

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 3344 / 44
p0 125.8 ± 0.1357
180
170
160
150
140
130
120
110
100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_24_68_dd_correction_mean vs run
×10^3
χ² / ndf 38.51 / 44
p0 2051 ± 4412
pull
Entries 45
Mean −24.3
Std Dev 9.346

pull1D
Entries 45
Mean −0.01181
Std Dev 0.925

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 1139 / 44
p0 2895 ± 3.12
3200
3100
3000
2900
2800
2700
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_24_68_dd_mean vs run
×10^3
χ^2 / ndf 38.12 / 44
p0 −1982 ± 4420
pull
Entries 45
Mean −28.69
Std Dev 28.28

pull1D
Entries 45
Mean 0.01375
Std Dev 0.9203

asym_sam_24_68_dd_rms vs run
χ2 / ndf 1165 / 44
p0 2900 ± 3.125
3200
3100
3000
2900
2800
2700
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 42.24 / 44
p0 32.59 ± 154.1
8000
6000
4000
2000
0
−2000
−4000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 78.3
Std Dev 65.2
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 45
Mean −0.01054
Std Dev 0.9687
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 478 / 44
p0 101.1 ± 0.1089
110
108
106
104
102
100
98
96
94
92
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 28.38 / 44
p0 307.1 ± 819.7
pull
Entries 45
Mean −277.9
Std Dev 289.1
pull1D
Entries 45
Mean 0.002956
Std Dev 0.7942

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 336.7 / 44
p0 538.1 ± 0.5796
560
550
540
530
520
510
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_26_48_dd_mean vs run
χ² / ndf 25.02 / 44
p0 −252.6 ± 812.3
30000
20000
10000
0
−10000
−20000
−30000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −94.43
Std Dev 104.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.006817
Std Dev 0.7456
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_26_48_dd_rms vs run
χ² / ndf 631.3 / 44
p0 533.1 ± 0.5744
570
560
550
540
530
520
510
500
490
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 53.1 / 44
p0 −41.59 ± 222.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −100.9
Std Dev 128.6
2
1
0
−1
−2

pull1D
Entries 45
Mean 0.02103
Std Dev 1.086
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 2184 / 44
p0 146.2 ± 0.1576
190
180
170
160
150
140
130
120
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_1548_avg_correction_mean vs run
×10^3
χ² / ndf 31.4 / 44
p0 271.8 ± 2182
pull
Entries 45
Mean −74.46
Std Dev 79.2

pull1D
Entries 45
Mean −0.007846
Std Dev 0.8352

asym_sam_1548_avg_correction_rms vs run
χ² / ndf 567.8 / 44
p0 1432 ± 1.543
1520
1500
1480
1460
1440
1420
1400
1380
1360
1340
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_1548_avg_mean vs run
×10^3
χ² / ndf 30.74 / 44
p0 −369.7 ± 2191
pull
Entries 45
Mean −63.73
Std Dev 74.7

pull1D
Entries 45
Mean 0.012
Std Dev 0.8264

asym_sam_1548_avg_rms vs run
χ² / ndf 717 / 44
p0 1438 ± 1.55
1550
1500
1450
1400
1350
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 51.36 / 44
p0 −179.5 ± 324.2
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −124.2
Std Dev 151.3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01785
Std Dev 1.068
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 3877 / 44
p0 212.4 ± 0.2293
300
280
260
240
220
200
180
160
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_3748_avg_correction_mean vs run
×10^3
χ² / ndf 34.79 / 44
p0 1148 ± 3763
50
0
−50
−100
−150
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −42.2
Std Dev 40.59
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 45
Mean −0.009963
Std Dev 0.8792
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_3748_avg_correction_rms vs run
χ² / ndf 786.8 / 44
p0 2470 ± 2.661
2650
2600
2550
2500
2450
2400
2350
2300
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_3748_avg_mean vs run
×10^3
χ^2 / ndf 34.31 / 44
p0 −1424 ± 3784
pull
Entries 45
Mean −42.22
Std Dev 49.43
pull1D
Entries 45
Mean 0.01355
Std Dev 0.873

asym_sam_3748_avg_rms vs run
χ² / ndf 943.8 / 44
p0 2483 ± 2.676
2700
2600
2500
2400
2300
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 42.59 / 44
p0 −11.19 ± 189.5
8000
6000
4000
2000
0
−2000
−4000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −162.4
Std Dev 188
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01917
Std Dev 0.9726
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 3117 / 44
p0 124.2 ± 0.134
170
160
150
140
130
120
110
100
90
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_1526_avg_correction_mean vs run
χ2 / ndf 37.24 / 44
p0 607.1 ± 1493
20000
0
−20000
−40000
−60000
−80000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −29.45
Std Dev 21.43
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.01124
Std Dev 0.9096
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_1526_avg_correction_rms vs run
χ2 / ndf 989.7 / 44
p0 979.8 ± 1.056
1080
1060
1040
1020
1000
980
960
940
920
900
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_1526_avg_mean vs run
χ² / ndf 35.98 / 44
p0 −637.8 ± 1503
80000
60000
40000
20000
0
−20000
−40000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −49.6
Std Dev 60.47
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.01456
Std Dev 0.8941
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_1526_avg_rms vs run
χ² / ndf 1148 / 44
p0 986 ± 1.063
1080
1060
1040
1020
1000
980
960
940
920
900
880
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 42.91 / 44
p0 −141.5 ± 321.6
pull
Entries 45
Mean −192.8
Std Dev 218.5

pull1D
Entries 45
Mean 0.01355
Std Dev 0.9764

dit_asym_sam_3726_avg_rms vs run
χ2 / ndf 3713 / 44
p0 210.7 ± 0.2274
280
260
240
220
200
180
160
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_3726_avg_correction_mean vs run
×10^3
χ^2 / ndf 38.95 / 44
p0 1500 ± 3129
50
0
−50
−100
−150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −19.59
Std Dev 17.22
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 45
Mean −0.01225
Std Dev 0.9302
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_3726_avg_correction_rms vs run
χ² / ndf 1170 / 44
p0 2053 ± 2.213
2300
2250
2200
2150
2100
2050
2000
1950
1900
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_3726_avg_mean vs run
×10^3
χ² / ndf 37.97 / 44
p0 −1699 ± 3147
150
100
50
0
−50
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −32.38
Std Dev 37.97
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 45
Mean 0.01507
Std Dev 0.9184
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 1326 / 44
p0 2065 ± 2.225
2300
2250
2200
2150
2100
2050
2000
1950
1900
1850
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 46.92 / 44
p0 28.44 ± 131
pull
Entries 45
Mean −93.73
Std Dev 123.5

pull1D
Entries 45
Mean −0.01486
Std Dev 1.021

dit_asym_sam_15_48_dd_rms vs run
χ2 / ndf 3966 / 44
p0 85.8 ± 0.09262
120
110
100
90
80
70
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_15_48_dd_correction_mean vs run
×10^3
χ² / ndf 35 / 44
p0 −651.4 ± 2074
pull
Entries 45
Mean −39.79
Std Dev 37.07

pull1D
Entries 45
Mean 0.01014
Std Dev 0.8819

asym_sam_15_48_dd_correction_rms vs run
χ² / ndf 806.1 / 44
p0 1361 ± 1.466
1450
1400
1350
1300
1250
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_15_48_dd_mean vs run
×10^3
χ^2 / ndf 34.33 / 44
p0 741.4 ± 2086
40
20
0
−20
−40
−60
−80
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −33.18
Std Dev 35.82
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 45
Mean −0.01335
Std Dev 0.8733
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_15_48_dd_rms vs run
χ2 / ndf 930.1 / 44
p0 1369 ± 1.475
1500
1450
1400
1350
1300
1250
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 37.16 / 44
p0 −96.77 ± 111.9
pull
Entries 45
Mean 51.27
Std Dev 40.56
pull1D
Entries 45
Mean −0.01609
Std Dev 0.9085

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 449 / 44
p0 73.49 ± 0.07916
80
78
76
74
72
70
68
66
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_37_48_dd_correction_mean vs run
χ² / ndf 28.37 / 44
p0 210 ± 564.1
pull
Entries 45
Mean −268.2
Std Dev 279.5
pull1D
Entries 45
Mean 0.003098
Std Dev 0.7939

asym_sam_37_48_dd_correction_rms vs run
χ² / ndf 351.5 / 44
p0 370.3 ± 0.3989
390
385
380
375
370
365
360
355
350
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_37_48_dd_mean vs run
χ² / ndf 25.98 / 44
p0 −301.2 ± 570.1
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −94.26
Std Dev 105.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.006861
Std Dev 0.7597
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_37_48_dd_rms vs run
χ² / ndf 528.1 / 44
p0 374.2 ± 0.4031
400
390
380
370
360
350
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 36.04 / 44
p0 −9.091 ± 155.1
4000
2000
0
−2000
−4000
−6000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −754.9
Std Dev 780
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.002639
Std Dev 0.895
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
χ^2 / ndf 2163 / 44
p0 101.7 ± 0.1097
130
120
110
100
90
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_15_26_dd_correction_mean vs run
χ² / ndf 44.59 / 44
p0 −1015 ± 1486
80000
60000
40000
20000
0
−20000
−40000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 0.9631
Std Dev 34.16
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 45
Mean 0.01523
Std Dev 0.9953
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_15_26_dd_correction_rms vs run
χ² / ndf 1880 / 44
p0 974.8 ± 1.051
1100
1050
1000
950
900
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_15_26_dd_mean vs run
χ² / ndf 42.17 / 44
p0 1018 ± 1489
pull
Entries 45
Mean −11.92
Std Dev 17.34
pull1D
Entries 45
Mean −0.01607
Std Dev 0.9679

asym_sam_15_26_dd_rms vs run
χ2 / ndf 1958 / 44
p0 976.8 ± 1.053
1100
1050
1000
950
900
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 50.97 / 44
p0 −136.9 ± 86.18
2000
1000
0
−1000
−2000
−3000
−4000
−5000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 128.4
Std Dev 109.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.004637
Std Dev 1.064
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 877.4 / 44
p0 56.55 ± 0.06094
62
60
58
56
54
52
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_37_26_dd_correction_mean vs run
χ² / ndf 28.46 / 44
p0 −97.21 ± 256.1
10000
5000
0
−5000
−10000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −306.9
Std Dev 317.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.002606
Std Dev 0.7952
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_37_26_dd_correction_rms vs run
χ2 / ndf 304.7 / 44
p0 168.1 ± 0.1811
176
174
172
170
168
166
164
162
160
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_37_26_dd_mean vs run
χ² / ndf 24.41 / 44
p0 −46.76 ± 253.1
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −108.2
Std Dev 117
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.0058
Std Dev 0.7365
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_37_26_dd_rms vs run
χ² / ndf 988.6 / 44
p0 166.1 ± 0.1789
180
175
170
165
160
155
150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 51.61 / 44
p0 −150.6 ± 203.7
6000
4000
2000
0
−2000
−4000
−6000
7776. 0
7776. 1
7776. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −138.2
Std Dev 164.3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01903
Std Dev 1.071
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 3605 / 44
p0 133.5 ± 0.1441
180
170
160
150
140
130
120
110
100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 33.93 / 44
p0 546.5 ± 1692
40000
20000
0
−20000
−40000
−60000
−80000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −51.8
Std Dev 52.07
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.008563
Std Dev 0.8683
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 757 / 44
p0 1111 ± 1.197
1200
1180
1160
1140
1120
1100
1080
1060
1040
1020
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_1357_avg_mean vs run
χ2 / ndf 34.32 / 44
p0 −684.8 ± 1701
80000
60000
40000
20000
0
−20000
−40000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −52.47
Std Dev 63.02
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.01387
Std Dev 0.8731
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_1357_avg_rms vs run
χ² / ndf 991.8 / 44
p0 1116 ± 1.203
1200
1150
1100
1050
1000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_sam_2468_avg_mean vs run
χ2 / ndf 46.5 / 44
p0 −36.31 ± 299.7
pull
Entries 45
Mean −150.1
Std Dev 176.7
pull1D
Entries 45
Mean 0.01744
Std Dev 1.016

dit_asym_sam_2468_avg_rms vs run
χ2 / ndf 3830 / 44
p0 196.4 ± 0.2119
280
260
240
220
200
180
160
140
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_2468_avg_correction_mean vs run
×10^3
χ^2 / ndf 35.91 / 44
p0 1258 ± 3564
50
0
−50
−100
−150
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −35.33
Std Dev 30.86
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 45
Mean −0.01059
Std Dev 0.8933
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 877.5 / 44
p0 2339 ± 2.52
2550
2500
2450
2400
2350
2300
2250
2200
2150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_2468_avg_mean vs run
×10^3
χ² / ndf 35.03 / 44
p0 −1374 ± 3583
pull
Entries 45
Mean −40.84
Std Dev 48

pull1D
Entries 45
Mean 0.01377
Std Dev 0.8821

asym_sam_2468_avg_rms vs run
χ² / ndf 987 / 44
p0 2351 ± 2.534
2550
2500
2450
2400
2350
2300
2250
2200
2150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 38.36 / 44
p0 −62.96 ± 60.93
pull
Entries 45
Mean −488.4
Std Dev 516.7

pull1D
Entries 45
Mean −0.004539
Std Dev 0.9233

dit_asym_sam_1357_2468_dd_rms vs run
χ2 / ndf 3950 / 44
p0 39.92 ± 0.04308
60
55
50
45
40
35
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 37.87 / 44
p0 −356.6 ± 940.4
pull
Entries 45
Mean −24.72
Std Dev 10.55
pull1D
Entries 45
Mean 0.01243
Std Dev 0.9173

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 996.6 / 44
p0 617.1 ± 0.6649
680
660
640
620
600
580
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 35.69 / 44
p0 345.2 ± 944.7
20000
10000
0
−10000
−20000
−30000
−40000
−50000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −30.1
Std Dev 31.74
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.01365
Std Dev 0.8904
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 1017 / 44
p0 619.9 ± 0.668
680
660
640
620
600
580
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 48.67 / 44
p0 −95.34 ± 248.9
8000
6000
4000
2000
0
−2000
−4000
−6000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −140.3
Std Dev 166.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 45
Mean 0.0188
Std Dev 1.04
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 3729 / 44
p0 163.1 ± 0.176
220
200
180
160
140
120
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_12345678_avg_correction_mean vs run
×10^3
χ² / ndf 35.25 / 44
p0 901.6 ± 2626
50
0
−50
−100
−150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −39.98
Std Dev 37.32
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 45
Mean −0.009929
Std Dev 0.885
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_12345678_avg_correction_rms vs run
χ2 / ndf 837.2 / 44
p0 1724 ± 1.857
1850
1800
1750
1700
1650
1600
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

asym_sam_12345678_avg_mean vs run
×10^3
χ² / ndf 34.79 / 44
p0 −1029 ± 2641
150
100
50
0
−50
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −44.61
Std Dev 53.05
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 45
Mean 0.01381
Std Dev 0.8792
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_12345678_avg_rms vs run
χ² / ndf 984.3 / 44
p0 1733 ± 1.867
1900
1850
1800
1750
1700
1650
1600
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

dit_usl_4aX_slope vs run
χ² / ndf 1.104e−27 / 44
p0 −169.1 ± 0.8556
−164
−166
−168
−170
−172
−174
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean 4.952e−15
Std Dev 2.426e−22

dit_usl_4eX_slope vs run
χ^2 / ndf 1.257e−26 / 44
p0 117.9 ± 0.8872
124
122
120
118
116
114
112
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10^-15
0
−2
−4
−6
−8
−10
−12
−14
−16
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean −1.671e−14
Std Dev7.336e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_usl_11X12X_slope vs run
χ^2 / ndf 2.282e−27 / 44
p0 −40.78 ± 0.1488
−39.6
−39.8
−40
−40.2
−40.4
−40.6
−40.8
−41
−41.2
−41.4
−41.6
−41.8
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10^-15
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean 7.121e−15
Std Dev 2.118e−22

dit_usl_4aY_slope vs run
χ² / ndf 2.69e−27 / 44
p0 4.79 ± 0.1027
5.6
5.4
5.2
5
4.8
4.6
4.4
4.2
4
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
8
7
6
5
4
3
2
1
0
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean 7.732e−15
Std Dev1.059e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_usl_4eY_slope vs run
χ2 / ndf 6.468e−28 / 44
p0 16.77 ± 0.1397
17.8
17.6
17.4
17.2
17
16.8
16.6
16.4
16.2
16
15.8
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10−15
3.5
3
2.5
2
1.5
1
0.5
0
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean 3.791e−15
Std Dev 1.401e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_usr_4aX_slope vs run
χ² / ndf 1.91e−26 / 44
p0 −291.9 ± 2.468
−275
−280
−285
−290
−295
−300
−305
−310
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
0
−5
−10
−15
−20
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean −2.06e−14
Std Dev 8.47e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_usr_4eX_slope vs run
χ2 / ndf 2.325e−26 / 44
p0 368.2 ± 2.61
385
380
375
370
365
360
355
350
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10−15
22
20
18
16
14
12
10
8
6
4
2
0
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean 2.273e−14
Std Dev 9.47e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_usr_11X12X_slope vs run
χ² / ndf 1.733e−26 / 44
p0 −46.49 ± 0.4318
−44
−45
−46
−47
−48
−49
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean 1.962e−14
Std Dev 6.353e−22

dit_usr_4aY_slope vs run
χ2 / ndf 5.243e−28 / 44
p0 6.71 ± 0.1552
7.5
7
6.5
6
5.5
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10−15
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean −3.413e−15
Std Dev1.123e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_usr_4eY_slope vs run
χ² / ndf 6.6e−28 / 44
p0 11.98 ± 0.2074
13.5
13
12.5
12
11.5
11
10.5
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
4
3.5
3
2.5
2
1.5
1
0.5
0
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean 3.83e−15
Std Dev 2.05e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_atl1_4aX_slope vs run

dit_atl1_4eX_slope vs run

dit_atl1_11X12X_slope vs run

dit_atl1_4aY_slope vs run
χ² / ndf 1.154e−26 / 44
p0 11.84 ± 0.1819
13
12.5
12
11.5
11
10.5
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
16
14
12
10
8
6
4
2
0
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean 1.602e−14
Std Dev4.235e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_atl1_4eY_slope vs run
χ^2 / ndf 7.102e−26 / 44
p0 −26.3 ± 0.1866
−25
−25.5
−26
−26.5
−27
−27.5
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10^−15
0
−5
−10
−15
−20
−25
−30
−35
−40
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean −3.973e−14
Std Dev2.075e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_atl2_4aX_slope vs run
χ² / ndf 1.36e−24 / 44
p0 −1322 ± 1.365
−1312
−1314
−1316
−1318
−1320
−1322
−1324
−1326
−1328
−1330
−1332
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
−0.18
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean −1.739e−13
Std Dev5.868e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_atl2_4eX_slope vs run
χ^2 / ndf 1.292e−25 / 44
p0 1323 ± 1.265
1332
1330
1328
1326
1324
1322
1320
1318
1316
1314
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10^-15
0
−10
−20
−30
−40
−50
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean −5.358e−14
Std Dev 2.47e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_atl2_11X12X_slope vs run
χ^2 / ndf 8.13e−25 / 44
p0 −260.3 ± 0.1261
−259.4
−259.6
−259.8
−260
−260.2
−260.4
−260.6
−260.8
−261
−261.2
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 22.5
Std Dev 12.99
×10^-12
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
pull1D
Entries 45
Mean −1.344e−13
Std Dev 6.985e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_atl2_4aY_slope vs run
χ² / ndf 9.69e−28 / 44
p0 16.9 ± 0.2283
18.5
18
17.5
17
16.5
16
15.5
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
0
−1
−2
−3
−4
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean −4.64e−15
Std Dev1.674e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_atl2_4eY_slope vs run
χ^2 / ndf 3.108e−26 / 44
p0 115.3 ± 0.2418
117
116.5
116
115.5
115
114.5
114
113.5
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10^-15
25
20
15
10
5
0
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean 2.628e−14
Std Dev 8.47e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_atr1_4aX_slope vs run
χ² / ndf 2.035e−26 / 44
p0 −333.1 ± 1.195
−324
−326
−328
−330
−332
−334
−336
−338
−340
−342
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 22.5
Std Dev 12.99
×10⁻¹⁵
22
20
18
16
14
12
10
8
6
4
2
0

pull1D
Entries 45
Mean 2.126e−14
Std Dev 8.984e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_atr1_4eX_slope vs run
χ2 / ndf 9.822e−27 / 44
p0 292.6 ± 1.147
300
298
296
294
292
290
288
286
284
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10−15
0
−2
−4
−6
−8
−10
−12
−14
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean −1.477e−14
Std Dev 2.118e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_atr1_11X12X_slope vs run
χ^2 / ndf 1.906e−27 / 44
p0 −61.06 ± 0.1628
−60
−60.5
−61
−61.5
−62
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 22.5
Std Dev 12.99
×10^-15
0
1
2
3
4
5
6

pull1D
Entries 45
Mean 6.508e−15
Std Dev 2.246e−22
0
5
10
15
20
25
30
35
40
45
−8
−6
−4
−2
0
2
4
6
8

dit_atr1_4aY_slope vs run
χ² / ndf 7.776e−28 / 44
p0 23.54 ± 0.2548
25.5
25
24.5
24
23.5
23
22.5
22
21.5
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
−4
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean −4.157e−15
Std Dev 1.497e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_atr1_4eY_slope vs run
χ^2 / ndf 6.437e−27 / 44
p0 −20.14 ± 0.2657
−18.5
−19
−19.5
−20
−20.5
−21
−21.5
−22
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10^-15
0
−2
−4
−6
−8
−10
−12
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean −1.196e−14
Std Dev3.668e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_atr2_4aX_slope vs run
χ2 / ndf 1.776e−24 / 44
p0 −1677 ± 0.853
−1672
−1674
−1676
−1678
−1680
−1682
−1684
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10−12
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean 1.987e−13
Std Dev 1.071e−20
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_atr2_4eX_slope vs run
χ^2 / ndf 3.708e−24 / 44
p0 1874 ± 0.8265
1880
1878
1876
1874
1872
1870
1868
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 22.5
Std Dev 12.99
$\times 10^{-12}$
0.3
0.25
0.2
0.15
0.1
0.05
0

pull1D
Entries 45
Mean 2.871e−13
Std Dev 7.576e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_atr2_11X12X_slope vs run
χ² / ndf 0 / 44
p0 −306.5 ± 0.1155
−305.6
−305.8
−306
−306.2
−306.4
−306.6
−306.8
−307
−307.2
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

pull1D
Entries 45
Mean 0
Std Dev 0
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_atr2_4aY_slope vs run
χ^2 / ndf 2.003e−28 / 44
p0 22.09 ± 0.2511
24
23.5
23
22.5
22
21.5
21
20.5
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10^-15
0
−0.5
−1
−1.5
−2
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean −2.11e−15
Std Dev 5.919e−23
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_atr2_4eY_slope vs run
χ² / ndf 5.558e−26 / 44
p0 125.5 ± 0.2411
127
126.5
126
125.5
125
124.5
124
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
35
30
25
20
15
10
5
0
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean 3.515e−14
Std Dev 1.271e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam1_4aX_slope vs run
χ² / ndf 5.644e−28 / 44
p0 2.371 ± 0.1308
3.4
3.2
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean −3.542e−15
Std Dev1.242e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam1_4eX_slope vs run
χ^2 / ndf 3.528e−26 / 44
p0 −13.06 ± 0.1324
−12
−12.5
−13
−13.5
−14
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10^−15
0
−5
−10
−15
−20
−25
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean −2.8e−14
Std Dev 0
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam1_11X12X_slope vs run
χ^2 / ndf 0 / 44
p0 0.7166 ± 0.01926
0.85
0.8
0.75
0.7
0.65
0.6
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

pull
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

pull1D
Entries 45
Mean 0
Std Dev 0
45
40
35
30
25
20
15
10
5
0
–8
–6
–4
–2
0
2
4
6
8

dit_sam1_4aY_slope vs run
χ² / ndf 1.089e−25 / 44
p0 −63.47 ± 0.1508
−62.5
−63
−63.5
−64
−64.5
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
0
−10
−20
−30
−40
−50
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean −4.918e−14
Std Dev 5.989e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam1_4eY_slope vs run
χ2 / ndf 1.314e−26 / 44
p0 16.54 ± 0.155
17.5
17
16.5
16
15.5
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10−15
16
14
12
10
8
6
4
2
0
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean 1.709e−14
Std Dev 5.989e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam2_4aX_slope vs run
χ^2 / ndf 7.904e−30 / 44
p0 28.33 ± 1.264
38
36
34
32
30
28
26
24
22
20
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean 4.191e−16
Std Dev 6.617e−24
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam2_4eX_slope vs run
χ² / ndf 7.904e−27 / 44
p0 −247.2 ± 1.279
−238
−240
−242
−244
−246
−248
−250
−252
−254
−256
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean −1.325e−14
Std Dev 3.668e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam2_11X12X_slope vs run
χ^2 / ndf 0 / 44
p0 1.612 ± 0.1701
2.5
2
1.5
1
0.5
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

pull1D
Entries 45
Mean 0
Std Dev 0
45
40
35
30
25
20
15
10
5
0
–8
–6
–4
–2
0
2
4
6
8

dit_sam2_4aY_slope vs run
χ² / ndf 3.275e−30 / 44
p0 −2.153 ± 0.4908
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean 2.698e−16
Std Dev 9.926e−24

dit_sam2_4eY_slope vs run
χ^2 / ndf 1.453e−26 / 44
p0 −204.9 ± 0.4715
−202
−203
−204
−205
−206
−207
−208
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10^-15
18
16
14
12
10
8
6
4
2
0
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean 1.797e−14
Std Dev4.735e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam3_4aX_slope vs run
χ² / ndf 3.074e−28 / 44
p0 −23.14 ± 1.418
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean −2.614e−15
Std Dev 1.35e−22

dit_sam3_4eX_slope vs run
χ² / ndf 7.731e−27 / 44
p0 −108 ± 1.455
−98
−100
−102
−104
−106
−108
−110
−112
−114
−116
−118
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean −1.311e−14
Std Dev 6.353e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam3_11X12X_slope vs run

dit_sam3_4aY_slope vs run
χ² / ndf 4.578e−28 / 44
p0 −8.819 ± 0.166
−7.5
−8
−8.5
−9
−9.5
−10
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
3
2.5
2
1.5
1
0.5
0
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean 3.19e−15
Std Dev 1.059e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam3_4eY_slope vs run
χ² / ndf 1.242e−25 / 44
p0 33.46 ± 0.2016
35
34.5
34
33.5
33
32.5
32
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
0
−10
−20
−30
−40
−50
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean −5.253e−14
Std Dev 2.32e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam4_4aX_slope vs run
χ^2 / ndf 5.331e−29 / 44
p0 21.97 ± 1.46
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean −1.088e−15
Std Dev 4.39e−23

dit_sam4_4eX_slope vs run
χ² / ndf 0 / 44
p0 −221.8 ± 1.489
−210
−215
−220
−225
−230
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

pull
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

pull1D
Entries 45
Mean 0
Std Dev 0
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam4_11X12X_slope vs run
χ^2 / ndf 1.34e−29 / 44
p0 1.796 ± 0.2426
3.5
3
2.5
2
1.5
1
0.5
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10^−15
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean −5.457e−16
Std Dev 2.093e−23
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam4_4aY_slope vs run
χ^2 / ndf 5.028e−29 / 44
p0 −21.55 ± 1.002
−14
−16
−18
−20
−22
−24
−26
−28
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10^−15
0
−0.2
−0.4
−0.6
−0.8
−1
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean −1.057e−15
Std Dev 3.242e−23
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam4_4eY_slope vs run
χ² / ndf 3.191e−26 / 44
p0 276.1 ± 1.273
286
284
282
280
278
276
274
272
270
268
266
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
0
−5
−10
−15
−20
−25
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean −2.663e−14
Std Dev 1.037e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam5_4aX_slope vs run
χ^2 / ndf 2.73e−28 / 44
p0 4.692 ± 0.215
6
5.5
5
4.5
4
3.5
3
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10^-15
2.5
2
1.5
1
0.5
0
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean 2.463e−15
Std Dev 9.169e−23
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam5_4eX_slope vs run
χ^2 / ndf 4.144e−30 / 44
p0 2.139 ± 0.2182
3.5
3
2.5
2
1.5
1
0.5
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10^-15
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean −3.035e−16
Std Dev1.193e−23
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam5_11X12X_slope vs run
χ² / ndf 2.348e−29 / 44
p0 0.4349 ± 0.03437
0.7
0.6
0.5
0.4
0.3
0.2
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean −7.223e−16
Std Dev1.323e−23
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam5_4aY_slope vs run
χ^2 / ndf 8.58e−28 / 44
p0 30.83 ± 0.3639
33
32
31
30
29
28
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10^-15
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
−4
−4.5
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean −4.366e−15
Std Dev1.184e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam5_4eY_slope vs run
χ² / ndf 2.195e−26 / 44
p0 128.7 ± 0.3836
131
130
129
128
127
126
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
0
−5
−10
−15
−20
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean −2.209e−14
Std Dev7.923e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam6_4aX_slope vs run
χ² / ndf 3.42e−27 / 44
p0 37.39 ± 0.6075
42
41
40
39
38
37
36
35
34
33
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
9
8
7
6
5
4
3
2
1
0
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean 8.718e−15
Std Dev4.366e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam6_4eX_slope vs run
χ^2 / ndf 5.388e−28 / 44
p0 26.47 ± 0.6122
31
30
29
28
27
26
25
24
23
22
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10^-15
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean −3.46e−15
Std Dev1.184e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam6_11X12X_slope vs run
χ² / ndf 7.385e−29 / 44
p0 0.9034 ± 0.07752
1.4
1.2
1
0.8
0.6
0.4
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean 1.281e−15
Std Dev 5.615e−23

dit_sam6_4aY_slope vs run
χ² / ndf 1.01e−27 / 44
p0 10.57 ± 0.3354
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean 4.736e−15
Std Dev 2.118e−22

dit_sam6_4eY_slope vs run
χ^2 / ndf 3.778e−25 / 44
p0 107.1 ± 0.3006
109.5
109
108.5
108
107.5
107
106.5
106
105.5
105
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10^-15
90
80
70
60
50
40
30
20
10
0
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean 9.163e−14
Std Dev 2.075e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam7_4aX_slope vs run
χ² / ndf 2.631e−25 / 44
p0 87.29 ± 0.1939
88.5
88
87.5
87
86.5
86
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
0
−10
−20
−30
−40
−50
−60
−70
−80
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean −7.647e−14
Std Dev3.788e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam7_4eX_slope vs run
χ² / ndf 1.947e−26 / 44
p0 −133.2 ± 0.2037
−132
−132.5
−133
−133.5
−134
−134.5
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
20
18
16
14
12
10
8
6
4
2
0
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean 2.08e−14
Std Dev 8.47e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam7_11X12X_slope vs run
χ^2 / ndf 1.636e−28 / 44
p0 0.4639 ± 0.03038
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 22.5
Std Dev 12.99
×10^-15
0
−0.5
−1
−1.5
−2

pull1D
Entries 45
Mean −1.907e−15
Std Dev 2.647e−23
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam7_4aY_slope vs run
χ^2 / ndf 9.977e−28 / 44
p0 7.406 ± 0.02812
7.6
7.55
7.5
7.45
7.4
7.35
7.3
7.25
7.2
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10^-15
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean 4.709e−15
Std Dev 2.183e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam7_4eY_slope vs run
χ² / ndf 1.454e−25 / 44
p0 −11.19 ± 0.02796
−11
−11.05
−11.1
−11.15
−11.2
−11.25
−11.3
−11.35
−11.4
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
50
40
30
20
10
0
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean 5.683e−14
Std Dev2.541e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam8_4aX_slope vs run
χ2 / ndf 1.94e−25 / 44
p0 59.61 ± 0.129
60.6
60.4
60.2
60
59.8
59.6
59.4
59.2
59
58.8
58.6
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10−15
pull
Entries 45
Mean 22.5
Std Dev 12.99
60
50
40
30
20
10
0

pull1D
Entries 45
Mean 6.567e−14
Std Dev3.388e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam8_4eX_slope vs run
χ^2 / ndf 4.153e−25 / 44
p0 −85.25 ± 0.1323
−84.2
−84.4
−84.6
−84.8
−85
−85.2
−85.4
−85.6
−85.8
−86
−86.2
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 22.5
Std Dev 12.99
$\times 10^{-12}$
0.1
0.08
0.06
0.04
0.02
0

pull1D
Entries 45
Mean 9.607e−14
Std Dev 0
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam8_11X12X_slope vs run
χ^2 / ndf 4.024e−28 / 44
p0 0.5722 ± 0.02214
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 22.5
Std Dev 12.99
×10^-15
3
2.5
2
1.5
1
0.5
0

pull1D
Entries 45
Mean 2.991e−15
Std Dev 1.242e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam8_4aY_slope vs run
χ2 / ndf 5.872e−26 / 44
p0 −53.95 ± 0.08797
−53.4
−53.6
−53.8
−54
−54.2
−54.4
−54.6
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10−15
0
−5
−10
−15
−20
−25
−30
−35
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean −3.612e−14
Std Dev 5.989e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam8_4eY_slope vs run
χ² / ndf 3.935e−26 / 44
p0 52.31 ± 0.1075
53
52.8
52.6
52.4
52.2
52
51.8
51.6
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
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7780. 5
7781. 0
7781. 1
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7782. 0
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7783. 0
7783. 1
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7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
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7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
0
−5
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−20
−25
−30
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean −2.957e−14
Std Dev 5.989e−22
45
40
35
30
25
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15
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−8
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pull
Entries 0
Mean 0
Std Dev 0
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pull1D
Entries 0
Mean 0
Std Dev 0
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pull1D
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pull1D
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pull1D
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pull
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pull1D
Entries 0
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pull
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pull1D
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pull
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pull1D
Entries 0
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pull
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Mean 0
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pull1D
Entries 0
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pull
Entries 0
Mean 0
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pull1D
Entries 0
Mean 0
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pull
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Mean 0
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pull1D
Entries 0
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Std Dev 0
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pull
Entries 0
Mean 0
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pull1D
Entries 0
Mean 0
Std Dev 0
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pull
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Mean 0
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pull1D
Entries 0
Mean 0
Std Dev 0
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pull
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pull1D
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pull
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dit_segment_slope vs run
χ^2 / ndf 2.888e−27 / 44
p0 1.778 ± 0.02066
1.9
1.85
1.8
1.75
1.7
1.65
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10^-15
0
−1
−2
−3
−4
−5
−6
−7
−8
pull
Entries 45
Mean 22.5
Std Dev 12.99

pull1D
Entries 45
Mean −8.011e−15
Std Dev 2.118e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 3.728 / 44
p0 −15.47 ± 0.8013
pull
Entries 45
Mean −181.9
Std Dev 206.9

pull1D
Entries 45
Mean −0.005513
Std Dev 0.2878

reg_asym_sam1_diff_bpm4aY_slope vs run
χ^2 / ndf 9.53 / 44
p0 −63.83 ± 0.8182
pull
Entries 45
Mean −950.4
Std Dev 974.4

pull1D
Entries 45
Mean −0.003754
Std Dev 0.4602

reg_asym_sam1_diff_bpm4eX_slope vs run
χ^2 / ndf 3.61 / 44
p0 3.113 ± 0.6977
pull
Entries 45
Mean −149.9
Std Dev 177.5

pull1D
Entries 45
Mean 0.003966
Std Dev 0.2832

reg_asym_sam1_diff_bpm4eY_slope vs run
χ^2 / ndf 8.815 / 44
p0 22.79 ± 0.9237
pull
Entries 45
Mean −1157
Std Dev 1181

pull1D
Entries 45
Mean 0.002809
Std Dev 0.4426

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 2.508 / 44
p0 0.2411± 0.02912
pull
Entries 45
Mean −6.115
Std Dev 14.5

pull1D
Entries 45
Mean −0.005784
Std Dev 0.236

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 0.5087 / 44
p0 −114.3 ± 11.65
0
−50
−100
−150
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
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7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −189.9
Std Dev 217.1
0.3
0.2
0.1
0
−0.1
−0.2

pull1D
Entries 45
Mean −0.001372
Std Dev 0.1063
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 0.3429 / 44
p0 −168 ± 11.89
pull
Entries 45
Mean 1226
Std Dev 1201

pull1D
Entries 45
Mean 0.000378
Std Dev 0.0873

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 0.5683 / 44
p0 −113.3 ± 10.14
pull
Entries 45
Mean −38.05
Std Dev 84.08

pull1D
Entries 45
Mean 0.0009252
Std Dev 0.1124

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 0.3214 / 44
p0 1.17 ± 13.42
100
50
0
−50
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 385.7
Std Dev 358.2
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

pull1D
Entries 45
Mean −0.0008018
Std Dev 0.0845
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam2_diff_bpm12X_slope vs run
χ^2 / ndf 0.4292 / 44
p0 0.7914 ± 0.4234
pull
Entries 45
Mean −286.9
Std Dev 307.1

pull1D
Entries 45
Mean −0.001444
Std Dev 0.09765

reg_asym_sam3_diff_bpm1X_slope vs run
χ^2 / ndf 1.981 / 44
p0 −120.8 ± 6.882
−40
−60
−80
−100
−120
−140
−160
−180
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 146.3
Std Dev 136.1
0.6
0.4
0.2
0
−0.2
−0.4

pull1D
Entries 45
Mean −0.0008233
Std Dev 0.2098
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam3_diff_bpm4aY_slope vs run
χ2 / ndf 0.5795 / 44
p0 12.05 ± 7.023
pull
Entries 45
Mean 132.7
Std Dev 111.7

pull1D
Entries 45
Mean 0.0025
Std Dev 0.1134

reg_asym_sam3_diff_bpm4eX_slope vs run
χ^2 / ndf 2.211 / 44
p0 −26.12 ± 5.99
pull
Entries 45
Mean −1320
Std Dev 1339

pull1D
Entries 45
Mean −0.0003864
Std Dev 0.2217

reg_asym_sam3_diff_bpm4eY_slope vs run
χ2 / ndf 0.6098 / 44
p0 5.885 ± 7.928
pull
Entries 45
Mean 116.9
Std Dev 96.35

pull1D
Entries 45
Mean −0.002577
Std Dev 0.1164

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 1.505 / 44
p0 −2.247 ± 0.2501
pull
Entries 45
Mean −187.4
Std Dev 205.9

pull1D
Entries 45
Mean −0.001296
Std Dev 0.1828

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 1.195 / 44
p0 −129.3 ± 10.38
0
−50
−100
−150
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 541.3
Std Dev 514.2
0.6
0.4
0.2
0
−0.2

pull1D
Entries 45
Mean 0.0003735
Std Dev 0.1629
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam4_diff_bpm4aY_slope vs run
χ^2 / ndf 0.4629 / 44
p0 141.1 ± 10.59
250
200
150
100
50
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 72.44
Std Dev 65.19
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2

pull1D
Entries 45
Mean 0.002659
Std Dev 0.1014
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam4_diff_bpm4eX_slope vs run
χ^2 / ndf 1.306 / 44
p0 −89.37 ± 9.037
0
−50
−100
−150
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −37.82
Std Dev 28.27
0.2
0
−0.2
−0.4
−0.6
−0.8

pull1D
Entries 45
Mean −0.0009691
Std Dev 0.1703
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam4_diff_bpm4eY_slope vs run
χ2 / ndf 0.4467 / 44
p0 78.7 ± 11.96
pull
Entries 45
Mean 185.5
Std Dev 172.1

pull1D
Entries 45
Mean −0.001826
Std Dev 0.09961

reg_asym_sam4_diff_bpm12X_slope vs run
χ^2 / ndf 0.6019 / 44
p0 –4.613 ± 0.3774
pull
Entries 45
Mean 350.6
Std Dev 326.6

pull1D
Entries 45
Mean 0.0007753
Std Dev 0.1157

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 3.694 / 44
p0 −9.215 ± 1.526
pull
Entries 45
Mean 231.7
Std Dev 207.3

pull1D
Entries 45
Mean 0.002155
Std Dev 0.2865

reg_asym_sam5_diff_bpm4aY_slope vs run
χ^2 / ndf 5.535 / 44
p0 116.8 ± 1.558
pull
Entries 45
Mean 46.87
Std Dev 66.65

pull1D
Entries 45
Mean 0.005227
Std Dev 0.3507

reg_asym_sam5_diff_bpm4eX_slope vs run
χ^2 / ndf 3.592 / 44
p0 13.56 ± 1.329
pull
Entries 45
Mean 176.7
Std Dev 151.3

pull1D
Entries 45
Mean −0.001859
Std Dev 0.2825

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 4.608 / 44
p0 23.18 ± 1.759
pull
Entries 45
Mean 2697
Std Dev 2695

pull1D
Entries 45
Mean −0.0002174
Std Dev 0.32

reg_asym_sam5_diff_bpm12X_slope vs run
χ2 / ndf 4.343 / 44
p0 −1.098 ± 0.05545
pull
Entries 45
Mean −6.963
Std Dev 21.02

pull1D
Entries 45
Mean 0.006771
Std Dev 0.3106

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 1.267 / 44
p0 0.5792 ± 3.691
pull
Entries 45
Mean −2737
Std Dev 2761

pull1D
Entries 45
Mean 0.0001062
Std Dev 0.1678

reg_asym_sam6_diff_bpm4aY_slope vs run
χ2 / ndf 1.307 / 44
p0 116.5 ± 3.768
pull
Entries 45
Mean −60.61
Std Dev 95.15

pull1D
Entries 45
Mean 0.00402
Std Dev 0.1704

reg_asym_sam6_diff_bpm4eX_slope vs run
χ^2 / ndf 1.503 / 44
p0 62.95 ± 3.213
pull
Entries 45
Mean 1282
Std Dev 1258

pull1D
Entries 45
Mean 0.0004597
Std Dev 0.1828

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 1.267 / 44
p0 −16.33 ± 4.253
20
0
−20
−40
−60
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −94.86
Std Dev 130
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

pull1D
Entries 45
Mean −0.002987
Std Dev 0.1678
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam6_diff_bpm12X_slope vs run
χ^2 / ndf 1.445 / 44
p0 −1.141 ± 0.1342
pull
Entries 45
Mean −63.53
Std Dev 97.39

pull1D
Entries 45
Mean −0.0007341
Std Dev 0.1792

reg_asym_sam7_diff_bpm1X_slope vs run
χ2 / ndf 1.16 / 44
p0 −5.095 ± 2.161
20
10
0
−10
−20
−30
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 498.4
Std Dev 482.3
0.6
0.4
0.2
0
−0.2

pull1D
Entries 45
Mean −0.0006961
Std Dev 0.1605
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam7_diff_bpm4aY_slope vs run
χ2 / ndf 0.7254 / 44
p0 19.4 ± 2.205
pull
Entries 45
Mean −301
Std Dev 322.3

pull1D
Entries 45
Mean 0.001579
Std Dev 0.127

reg_asym_sam7_diff_bpm4eX_slope vs run
χ^2 / ndf 1.321 / 44
p0 −37.57 ± 1.881
pull
Entries 45
Mean 1591
Std Dev 1572

pull1D
Entries 45
Mean 0.0004012
Std Dev 0.1713

reg_asym_sam7_diff_bpm4eY_slope vs run
χ2 / ndf 0.7493 / 44
p0 −24.82 ± 2.49
0
−10
−20
−30
−40
−50
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −379
Std Dev 400.3
0.2
0.1
0
−0.1
−0.2
−0.3

pull1D
Entries 45
Mean −0.00137
Std Dev 0.129
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam7_diff_bpm12X_slope vs run
χ^2 / ndf 1.094 / 44
p0 −0.6944 ± 0.07854
pull
Entries 45
Mean −9827
Std Dev 9848

pull1D
Entries 45
Mean −6.884e−05
Std Dev 0.1559

reg_asym_sam8_diff_bpm1X_slope vs run
χ2 / ndf 2.333 / 44
p0 −7.08 ± 1.227
pull
Entries 45
Mean −3.452
Std Dev 49.77

pull1D
Entries 45
Mean −0.002233
Std Dev 0.2277

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 1.756 / 44
p0 −13.48 ± 1.253
0
−5
−10
−15
−20
−25
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 198.8
Std Dev 172.6
0.4
0.2
0
−0.2
−0.4
−0.6

pull1D
Entries 45
Mean 0.004294
Std Dev 0.1975
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 2.425 / 44
p0 −17.49 ± 1.068
pull
Entries 45
Mean 122.6
Std Dev 114.9

pull1D
Entries 45
Mean 0.001669
Std Dev 0.2321

reg_asym_sam8_diff_bpm4eY_slope vs run
χ^2 / ndf 1.907 / 44
p0 7.432 ± 1.414
pull
Entries 45
Mean 250.3
Std Dev 224.4

pull1D
Entries 45
Mean −0.003403
Std Dev 0.2058

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 1.551 / 44
p0 −0.8099 ± 0.04461
pull
Entries 45
Mean −459.4
Std Dev 478.8

pull1D
Entries 45
Mean −0.001146
Std Dev 0.1857

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 20.75 / 44
p0 −47.08 ± 3.55
pull
Entries 45
Mean 2.912
Std Dev 47.09
pull1D
Entries 45
Mean 0.00761
Std Dev 0.6791

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 14.03 / 44
p0 10.77 ± 3.622
80
60
40
20
0
−20
−40
7776. 0
7776. 1
7776. 0
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 64.19
Std Dev 57.01
1.5
1
0.5
0
−0.5
−1

pull1D
Entries 45
Mean 0.01524
Std Dev 0.5581
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 21.11 / 44
p0 −17.19 ± 3.09
pull
Entries 45
Mean −54.76
Std Dev 53.19

pull1D
Entries 45
Mean −0.006292
Std Dev 0.6849

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 13.35 / 44
p0 11.32 ± 4.089
80
60
40
20
0
−20
−40
−60
−80
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 6.541
Std Dev 40.38
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 45
Mean −0.01304
Std Dev 0.5445
16
14
12
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 412.6 / 44
p0 −40.03 ± 0.1291
−34
−36
−38
−40
−42
−44
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 297.4
Std Dev 280.5
8
6
4
2
0
−2

pull1D
Entries 45
Mean −0.27
Std Dev 2.796
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 5.007 / 44
p0 −30.06 ± 6.263
pull
Entries 45
Mean 20.36
Std Dev 50.71
pull1D
Entries 45
Mean −0.004207
Std Dev 0.3335

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 7.743 / 44
p0 22.94 ± 6.394
pull
Entries 45
Mean −791.3
Std Dev 819

pull1D
Entries 45
Mean −0.0003699
Std Dev 0.4148

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 5.203 / 44
p0 89.92 ± 5.453
pull
Entries 45
Mean −21.63
Std Dev 11.33

pull1D
Entries 45
Mean 0.007004
Std Dev 0.3399

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 7.555 / 44
p0 −7.365 ± 7.219
100
50
0
−50
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −178.2
Std Dev 198.4
1
0.5
0
−0.5
−1

pull1D
Entries 45
Mean 0.004439
Std Dev 0.4097
14
12
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 776.3 / 44
p0 −42.22 ± 0.2275
pull
Entries 45
Mean −111.8
Std Dev 128.7

pull1D
Entries 45
Mean 1.648
Std Dev 0.4708

reg_asym_dsl_diff_bpm1X_slope vs run
×10^3
χ² / ndf 35.51 / 44
p0 −22.37 ± 88.89
500
400
300
200
100
0
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 30.38
Std Dev 2.032
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 45
Mean 0.1323
Std Dev 0.8784
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_dsl_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 51.99 / 44
p0 26.84 ± 89.83
0
−200
−400
−600
−800
−1000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 11.25
Std Dev 18.41
2
1
0
−1
−2
−3

pull1D
Entries 45
Mean −0.1187
Std Dev 1.068
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_dsl_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 35.63 / 44
p0 18.39 ± 77.06
0
−100
−200
−300
−400
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 31.24
Std Dev 4.617
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 45
Mean −0.1312
Std Dev 0.8801
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_dsl_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 52.36 / 44
p0 −39.49 ± 101.4
1200
1000
800
600
400
200
0
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 7.102
Std Dev 22.49
3
2
1
0
−1
−2

pull1D
Entries 45
Mean 0.1043
Std Dev 1.074
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 38.83 / 44
p0 0.0651 ± 3.231
pull
Entries 45
Mean 25.46
Std Dev 4.774

pull1D
Entries 45
Mean 0.1513
Std Dev 0.9165

reg_asym_dsr_diff_bpm1X_slope vs run
×10^3
χ² / ndf 49.8 / 44
p0 96.9 ± 102.5
pull
Entries 45
Mean −86.74
Std Dev 124.2

pull1D
Entries 45
Mean 0.006636
Std Dev 1.052

reg_asym_dsr_diff_bpm4aY_slope vs run
χ^2 / ndf 41.58 / 44
p0 179.3 ± 104.2
×10^3
pull
Entries 45
Mean 35.58
Std Dev 4.568

pull1D
Entries 45
Mean −0.2043
Std Dev 0.9393

reg_asym_dsr_diff_bpm4eX_slope vs run
×10^3
χ^2 / ndf 50.02 / 44
p0 −83.21 ± 88.73
800
600
400
200
0
−200
−400
−600
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 334.6
Std Dev 297.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 45
Mean 0.002975
Std Dev 1.054
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_dsr_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 41.13 / 44
p0 −198.6 ± 117.6
1000
800
600
400
200
0
−200
−400
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 36.75
Std Dev 7.833
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 45
Mean 0.2013
Std Dev 0.9345
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 47.68 / 44
p0 9.706 ± 3.746
30000
20000
10000
0
−10000
−20000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 57.88
Std Dev 38.55
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.03972
Std Dev 1.029
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 9.122 / 44
p0 −38.76 ± 3.602
pull
Entries 45
Mean 24.36
Std Dev 13.69

pull1D
Entries 45
Mean 0.004068
Std Dev 0.4502

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ2 / ndf 8.066 / 44
p0 17.26 ± 3.677
pull
Entries 45
Mean −367.9
Std Dev 379.8

pull1D
Entries 45
Mean −0.001101
Std Dev 0.4234

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.304 / 44
p0 36.59 ± 3.136
80
60
40
20
0
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 72.56
Std Dev 59.46
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.002395
Std Dev 0.4547
16
14
12
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 8.451 / 44
p0 1.751 ± 4.151
pull
Entries 45
Mean −319.1
Std Dev 330.7

pull1D
Entries 45
Mean 0.001752
Std Dev 0.4334

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 302.9 / 44
p0 −41.46 ± 0.1309
−38
−40
−42
−44
−46
−48
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −225.5
Std Dev 243.4
2
0
−2
−4
−6

pull1D
Entries 45
Mean −0.08849
Std Dev 2.593
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 8.567 / 44
p0 −8.664 ± 3.616
40
20
0
−20
−40
−60
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 18.71
Std Dev 43.14
1
0.5
0
−0.5
−1

pull1D
Entries 45
Mean 0.01073
Std Dev 0.4362
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.23 / 44
p0 −5.774 ± 3.692
pull
Entries 45
Mean −24.21
Std Dev 118.7

pull1D
Entries 45
Mean 0.001197
Std Dev 0.4769

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ2 / ndf 8.833 / 44
p0 −53.41 ± 3.148
−20
−40
−60
−80
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −13.69
Std Dev 22.21
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.01296
Std Dev 0.4429
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 9.485 / 44
p0 9.108 ± 4.169
pull
Entries 45
Mean −141.5
Std Dev 166.9

pull1D
Entries 45
Mean −0.005815
Std Dev 0.4591

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 1081 / 44
p0 0.9592 ± 0.1313
pull
Entries 45
Mean −132.6
Std Dev 149.3

pull1D
Entries 45
Mean −1.992
Std Dev 0.5232

reg_asym_ds_avg_diff_bpm1X_slope vs run
×10^3
χ² / ndf 41.16 / 44
p0 −1.973 ± 82.44
400
300
200
100
0
−100
−200
−300
−400
−500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 6.318
Std Dev 21.68
2
1
0
−1
−2

pull1D
Entries 45
Mean 0.08603
Std Dev 0.9525
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_ds_avg_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 48.89 / 44
p0 92.44 ± 83.26
200
100
0
−100
−200
−300
−400
−500
−600
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 30.26
Std Dev 3.791
1
0
−1
−2
−3

pull1D
Entries 45
Mean −0.3849
Std Dev 0.9687
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_ds_avg_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 41.36 / 44
p0 −1.457 ± 71.27
400
300
200
100
0
−100
−200
−300
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 0.2129
Std Dev 28.62
2
1
0
−1
−2

pull1D
Entries 45
Mean −0.06889
Std Dev 0.9562
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_ds_avg_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 48.86 / 44
p0 −109.2 ± 93.98
600
500
400
300
200
100
0
−100
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 30.59
Std Dev 2.87
3
2
1
0
−1

pull1D
Entries 45
Mean 0.3798
Std Dev 0.9703
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 39.81 / 44
p0 3.135 ± 3.006
15000
10000
5000
0
−5000
−10000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 27.75
Std Dev 7.293
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.1848
Std Dev 0.9222
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_ds_dd_diff_bpm1X_slope vs run
×10^3
χ² / ndf 39.15 / 44
p0 −34.27 ± 82.35
pull
Entries 45
Mean 34.23
Std Dev 2.306

pull1D
Entries 45
Mean 0.08312
Std Dev 0.929

reg_asym_ds_dd_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 50.56 / 44
p0 −68.79 ± 83.18
400
200
0
−200
−400
−600
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 570.9
Std Dev 544
2
1
0
−1
−2
−3

pull1D
Entries 45
Mean 0.004979
Std Dev 1.06
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_ds_dd_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 38.62 / 44
p0 29.99 ± 71.2
pull
Entries 45
Mean 35.82
Std Dev 3.867

pull1D
Entries 45
Mean −0.09074
Std Dev 0.922

reg_asym_ds_dd_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 51.13 / 44
p0 65.52 ± 93.88
600
400
200
0
−200
−400
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 539.3
Std Dev 513.2
3
2
1
0
−1
−2

pull1D
Entries 45
Mean −0.005787
Std Dev 1.066
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 50.98 / 44
p0 −2.706 ± 3.004
15000
10000
5000
0
−5000
−10000
−15000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −4.084
Std Dev 29.78
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.03949
Std Dev 1.064
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_left_avg_diff_bpm1X_slope vs run
×10^3
χ² / ndf 35.97 / 44
p0 −35.28 ± 44.51
250
200
150
100
50
0
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 30.15
Std Dev 1.932
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 45
Mean 0.1328
Std Dev 0.8841
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_left_avg_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 52.36 / 44
p0 17.08 ± 44.98
0
−100
−200
−300
−400
−500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 10.43
Std Dev 19.06
2
1
0
−1
−2
−3

pull1D
Entries 45
Mean −0.1147
Std Dev 1.073
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_left_avg_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 36.04 / 44
p0 0.8385 ± 38.59
0
−50
−100
−150
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 30.95
Std Dev 3.513
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 45
Mean −0.1314
Std Dev 0.8852
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_left_avg_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 52.69 / 44
p0 −13.11 ± 50.77
600
500
400
300
200
100
0
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 6.484
Std Dev 23.03
3
2
1
0
−1
−2

pull1D
Entries 45
Mean 0.1014
Std Dev 1.077
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 39.42 / 44
p0 −18.85 ± 1.618
14000
12000
10000
8000
6000
4000
2000
0
−2000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 18.78
Std Dev 1.45
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 45
Mean 0.1126
Std Dev 0.9291
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_left_dd_diff_bpm1X_slope vs run
×10^3
χ² / ndf 35.02 / 44
p0 −13.02 ± 44.53
0
−50
−100
−150
−200
−250
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 30.61
Std Dev 3.52
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 45
Mean −0.1317
Std Dev 0.8723
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_left_dd_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 51.54 / 44
p0 −9.702 ± 45
500
400
300
200
100
0
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 12
Std Dev 17.84
3
2
1
0
−1
−2

pull1D
Entries 45
Mean 0.1227
Std Dev 1.063
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_left_dd_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 35.19 / 44
p0 −17.44 ± 38.61
200
150
100
50
0
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 31.52
Std Dev 5.546
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 45
Mean 0.1308
Std Dev 0.8746
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_left_dd_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 51.96 / 44
p0 26.36 ± 50.79
0
−100
−200
−300
−400
−500
−600
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 7.68
Std Dev 21.99
2
1
0
−1
−2
−3

pull1D
Entries 45
Mean −0.1072
Std Dev 1.069
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 40.08 / 44
p0 −18.92 ± 1.619
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
−14000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 29.43
Std Dev 8.817
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.1896
Std Dev 0.9245
9
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
×10^3
χ^2 / ndf 50.24 / 44
p0 33.34 ± 51.39
pull
Entries 45
Mean −79.94
Std Dev 118.2

pull1D
Entries 45
Mean 0.006827
Std Dev 1.057

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 41.42 / 44
p0 100.6 ± 52.23
×10^3
pull
Entries 45
Mean 35.63
Std Dev 4.91

pull1D
Entries 45
Mean −0.2039
Std Dev 0.9375

reg_asym_right_avg_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 50.53 / 44
p0 3.729 ± 44.5
400
300
200
100
0
−100
−200
−300
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 341
Std Dev 302.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 45
Mean 0.002788
Std Dev 1.06
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_right_avg_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 40.83 / 44
p0 −101.6 ± 58.98
pull
Entries 45
Mean 36.66
Std Dev 7.556

pull1D
Entries 45
Mean 0.2008
Std Dev 0.9311

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 64.93 / 44
p0 −17.75 ± 1.879
15000
10000
5000
0
−5000
−10000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 88.53
Std Dev 72.72
pull1D
Entries 45
Mean 0.04635
Std Dev 1.2

reg_asym_right_dd_diff_bpm1X_slope vs run
×10^3
χ² / ndf 48.97 / 44
p0 −63.88 ± 51.44
500
400
300
200
100
0
−100
−200
−300
−400
7776. 0
7776. 1
7776. 0
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −105.2
Std Dev 141.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 45
Mean −0.005875
Std Dev 1.043
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_right_dd_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 41.46 / 44
p0 −78.67 ± 52.29
500
400
300
200
100
0
−100
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 35.54
Std Dev 4.226
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 45
Mean 0.2045
Std Dev 0.9378
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_right_dd_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 49.11 / 44
p0 87.22 ± 44.54
pull
Entries 45
Mean 281.3
Std Dev 245.3

pull1D
Entries 45
Mean −0.003742
Std Dev 1.045

reg_asym_right_dd_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 41.14 / 44
p0 96.85 ± 59.04
pull
Entries 45
Mean 36.85
Std Dev 8.109

pull1D
Entries 45
Mean −0.2016
Std Dev 0.9346

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 40.38 / 44
p0 −27.47 ± 1.881
pull
Entries 45
Mean 14.74
Std Dev 26.19
pull1D
Entries 45
Mean −0.03289
Std Dev 0.9467

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 13.24 / 44
p0 −12.35 ± 0.4985
pull
Entries 45
Mean 4444
Std Dev 4419

pull1D
Entries 45
Mean 0.0003534
Std Dev 0.5425

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 19.86 / 44
p0 26.45 ± 0.5089
pull
Entries 45
Mean 315.3
Std Dev 296.1

pull1D
Entries 45
Mean 0.01075
Std Dev 0.6643

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 12.71 / 44
p0 8.349 ± 0.434
pull
Entries 45
Mean 681
Std Dev 654.4

pull1D
Entries 45
Mean −0.001465
Std Dev 0.5314

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.69 / 44
p0 23.03 ± 0.5745
pull
Entries 45
Mean 803.5
Std Dev 784.5

pull1D
Entries 45
Mean −0.004558
Std Dev 0.609

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 10.87 / 44
p0 −0.4277 ± 0.01811
pull
Entries 45
Mean −58.92
Std Dev 56.82

pull1D
Entries 45
Mean 0.002239
Std Dev 0.4914

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 1.709 / 44
p0 −3.128 ± 1.112
pull
Entries 45
Mean −3.864
Std Dev 30.91

pull1D
Entries 45
Mean −0.003297
Std Dev 0.1948

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.677 / 44
p0 −90.31 ± 1.135
pull
Entries 45
Mean −209.2
Std Dev 238.8
pull1D
Entries 45
Mean −0.005315
Std Dev 0.2858

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ2 / ndf 1.704 / 44
p0 −5.221 ± 0.968
pull
Entries 45
Mean 6.729
Std Dev 28.26

pull1D
Entries 45
Mean 0.002544
Std Dev 0.1946

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.26 / 44
p0 −0.2012 ± 1.282
pull
Entries 45
Mean −582
Std Dev 617

pull1D
Entries 45
Mean 0.001313
Std Dev 0.2691

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 2.524 / 44
p0 0.6699 ± 0.04039
pull
Entries 45
Mean −3.922
Std Dev 21.55

pull1D
Entries 45
Mean −0.007259
Std Dev 0.2367

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 1.665 / 44
p0 −62.94 ± 4.518
pull
Entries 45
Mean 221
Std Dev 207.9
pull1D
Entries 45
Mean −0.0007908
Std Dev 0.1924

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.4979 / 44
p0 15.73 ± 4.611
pull
Entries 45
Mean 61.66
Std Dev 40.95

pull1D
Entries 45
Mean 0.002231
Std Dev 0.1052

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.877 / 44
p0 −31.85 ± 3.933
0
−20
−40
−60
−80
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −3276
Std Dev 3295
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

pull1D
Entries 45
Mean −0.0001656
Std Dev 0.2042
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.5262 / 44
p0 −9.469 ± 5.206
pull
Entries 45
Mean 46.39
Std Dev 27.48

pull1D
Entries 45
Mean −0.002247
Std Dev 0.1081

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 1.295 / 44
p0 −1.471 ± 0.1642
pull
Entries 45
Mean −341.1
Std Dev 360.7

pull1D
Entries 45
Mean −0.001015
Std Dev 0.1696

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 2.789 / 44
p0 −57.85 ± 2.366
pull
Entries 45
Mean 18.63
Std Dev 45.96

pull1D
Entries 45
Mean −0.0008884
Std Dev 0.249

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.9393 / 44
p0 −3.686 ± 2.414
pull
Entries 45
Mean 227.3
Std Dev 206.2

pull1D
Entries 45
Mean 0.003102
Std Dev 0.1444

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.057 / 44
p0 5.727 ± 2.059
pull
Entries 45
Mean −517.5
Std Dev 537.3

pull1D
Entries 45
Mean −0.0008604
Std Dev 0.2606

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.9744 / 44
p0 15.36 ± 2.726
pull
Entries 45
Mean 207.1
Std Dev 186.2

pull1D
Entries 45
Mean −0.003282
Std Dev 0.1471

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ^2 / ndf 2.097 / 44
p0 −0.7765 ± 0.08599
pull
Entries 45
Mean −25.58
Std Dev 32.6

pull1D
Entries 45
Mean −0.001815
Std Dev 0.2159

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 1.798 / 44
p0 −56.9 ± 4.024
−20
−40
−60
−80
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −205.8
Std Dev 234.4
0.6
0.4
0.2
0
−0.2
pull1D
Entries 45
Mean −0.001307
Std Dev 0.1999
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.7874 / 44
p0 −25.75 ± 4.107
pull
Entries 45
Mean 252.3
Std Dev 230.1

pull1D
Entries 45
Mean 0.002158
Std Dev 0.1323

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 2.091 / 44
p0 −25.09 ± 3.503
pull
Entries 45
Mean 3225
Std Dev 3215

pull1D
Entries 45
Mean 5.187e−05
Std Dev 0.2155

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.7147 / 44
p0 −7.574 ± 4.637
pull
Entries 45
Mean 117.6
Std Dev 95.18

pull1D
Entries 45
Mean −0.002679
Std Dev 0.126

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 1.547 / 44
p0 −0.1769 ± 0.1463
pull
Entries 45
Mean −442.3
Std Dev 463.2

pull1D
Entries 45
Mean −0.001486
Std Dev 0.1854

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 0.2346 / 44
p0 −57.42 ± 7.647
pull
Entries 45
Mean −207.8
Std Dev 234.4

pull1D
Entries 45
Mean −0.001257
Std Dev 0.0722

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.3332 / 44
p0 −142.2 ± 7.805
pull
Entries 45
Mean −673.2
Std Dev 700.3

pull1D
Entries 45
Mean −0.0006176
Std Dev 0.08604

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.2413 / 44
p0 −88.16 ± 6.656
pull
Entries 45
Mean −149.7
Std Dev 179.9

pull1D
Entries 45
Mean 0.001029
Std Dev 0.07322

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.324 / 44
p0 8.745 ± 8.811
pull
Entries 45
Mean −1990
Std Dev 2020

pull1D
Entries 45
Mean 0.0001531
Std Dev 0.08485

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 0.235 / 44
p0 0.9672 ± 0.2779
pull
Entries 45
Mean −245.9
Std Dev 265.3
pull1D
Entries 45
Mean −0.001196
Std Dev 0.07226

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ^2 / ndf 1.239 / 44
p0 −68.19 ± 5.783
pull
Entries 45
Mean 1679
Std Dev 1651

pull1D
Entries 45
Mean 0.0001089
Std Dev 0.1659

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ2 / ndf 0.4564 / 44
p0 63.81 ± 5.901
pull
Entries 45
Mean 90.48
Std Dev 76.53

pull1D
Entries 45
Mean 0.002917
Std Dev 0.1007

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.348 / 44
p0 −53.43 ± 5.034
pull
Entries 45
Mean −77.91
Std Dev 75.59

pull1D
Entries 45
Mean −0.0006978
Std Dev 0.1731

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.4574 / 44
p0 43.07 ± 6.662
pull
Entries 45
Mean 191.7
Std Dev 175.4

pull1D
Entries 45
Mean −0.002059
Std Dev 0.1008

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 0.6053 / 44
p0 −2.712 ± 0.2102
pull
Entries 45
Mean 470.7
Std Dev 447.6
pull1D
Entries 45
Mean 0.0006425
Std Dev 0.116

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 1.165 / 44
p0 −61.11 ± 4.606
pull
Entries 45
Mean 322.9
Std Dev 297.1

pull1D
Entries 45
Mean 0.0006999
Std Dev 0.1609

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.519 / 44
p0 77.3 ± 4.699
pull
Entries 45
Mean 44.48
Std Dev 55.51
pull1D
Entries 45
Mean 0.002311
Std Dev 0.1074

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.279 / 44
p0 −35.94 ± 4.008
pull
Entries 45
Mean −11.04
Std Dev 26.31

pull1D
Entries 45
Mean −0.001305
Std Dev 0.1686

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ2 / ndf 0.4816 / 44
p0 35.63 ± 5.305
80
60
40
20
0
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 177.2
Std Dev 168.9
0.2
0.1
0
−0.1
−0.2
−0.3

pull1D
Entries 45
Mean −0.001513
Std Dev 0.1034
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 0.631 / 44
p0 −1.901 ± 0.1674
pull
Entries 45
Mean 252
Std Dev 226.5

pull1D
Entries 45
Mean 0.0009223
Std Dev 0.1184

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 1.491 / 44
p0 −30.49 ± 1.536
pull
Entries 45
Mean −3.369
Std Dev 40.51
pull1D
Entries 45
Mean −0.001739
Std Dev 0.182

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.112 / 44
p0 −47 ± 1.568
pull
Entries 45
Mean 2900
Std Dev 2875

pull1D
Entries 45
Mean 0.0003264
Std Dev 0.1572

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.655 / 44
p0 0.2532 ± 1.337
pull
Entries 45
Mean 1580
Std Dev 1561

pull1D
Entries 45
Mean 0.0002172
Std Dev 0.1918

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.069 / 44
p0 7.572 ± 1.77
pull
Entries 45
Mean 464.5
Std Dev 438.2

pull1D
Entries 45
Mean −0.001714
Std Dev 0.1541

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 1.454 / 44
p0 −0.05297 ± 0.05581
pull
Entries 45
Mean −10.27
Std Dev 8.517

pull1D
Entries 45
Mean −0.004336
Std Dev 0.1797

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ2 / ndf 1.11 / 44
p0 25.3 ± 2.239
pull
Entries 45
Mean 557.6
Std Dev 538.4

pull1D
Entries 45
Mean 0.0006258
Std Dev 0.157

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 0.5309 / 44
p0 5.348 ± 2.285
pull
Entries 45
Mean −359.2
Std Dev 377.8

pull1D
Entries 45
Mean −0.0006771
Std Dev 0.1086

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ2 / ndf 1.316 / 44
p0 20.09 ± 1.949
pull
Entries 45
Mean −2667
Std Dev 2687

pull1D
Entries 45
Mean 0.0002462
Std Dev 0.171

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.564 / 44
p0 16.26 ± 2.58
pull
Entries 45
Mean −226.4
Std Dev 245.4

pull1D
Entries 45
Mean 0.001376
Std Dev 0.1119

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 1.16 / 44
p0 0.5211± 0.08136
pull
Entries 45
Mean −216.3
Std Dev 234.7

pull1D
Entries 45
Mean 0.00164
Std Dev 0.1605

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 0.3919 / 44
p0 −59.27 ± 5.993
pull
Entries 45
Mean −597.3
Std Dev 623.7

pull1D
Entries 45
Mean −0.000432
Std Dev 0.09332

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.17 / 44
p0 −32.48 ± 6.116
pull
Entries 45
Mean 534.2
Std Dev 511.3

pull1D
Entries 45
Mean 0.0005663
Std Dev 0.06146

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.419 / 44
p0 −62.05 ± 5.217
pull
Entries 45
Mean −718.3
Std Dev 754.4

pull1D
Entries 45
Mean 0.0001312
Std Dev 0.0965

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.1793 / 44
p0 22.19 ± 6.905
80
60
40
20
0
−20
−40
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 629.5
Std Dev 606.7
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

pull1D
Entries 45
Mean −0.0004678
Std Dev 0.06312
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 0.1789 / 44
p0 −0.468 ± 0.2178
pull
Entries 45
Mean −3858
Std Dev 3879

pull1D
Entries 45
Mean −7.433e−05
Std Dev 0.06306

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ2 / ndf 2.745 / 44
p0 5.625 ± 1.104
pull
Entries 45
Mean −36.7
Std Dev 70.27

pull1D
Entries 45
Mean −0.001215
Std Dev 0.247

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.077 / 44
p0 −44.79 ± 1.126
−35
−40
−45
−50
−55
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −90.55
Std Dev 124.6
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

pull1D
Entries 45
Mean −0.003139
Std Dev 0.2148
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.176 / 44
p0 14.16 ± 0.9604
pull
Entries 45
Mean 73.45
Std Dev 48.32

pull1D
Entries 45
Mean 0.002292
Std Dev 0.2657

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.922 / 44
p0 −25.34 ± 1.271
pull
Entries 45
Mean 302.7
Std Dev 292

pull1D
Entries 45
Mean 0.001675
Std Dev 0.2067

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 3.093 / 44
p0 1.265 ± 0.04011
pull
Entries 45
Mean 4290
Std Dev 4272
pull1D
Entries 45
Mean 0.0001238
Std Dev 0.2622

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 1.802 / 44
p0 −40.27 ± 2.974
pull
Entries 45
Mean 1460
Std Dev 1433

pull1D
Entries 45
Mean 0.0002125
Std Dev 0.2001

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.9549 / 44
p0 45.1 ± 3.034
pull
Entries 45
Mean 126.9
Std Dev 109.9

pull1D
Entries 45
Mean 0.004388
Std Dev 0.1456

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.9 / 44
p0 −22.54 ± 2.588
0
−10
−20
−30
−40
−50
−60
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 36.92
Std Dev 62.43
0.2
0
−0.2
−0.4
−0.6
−0.8

pull1D
Entries 45
Mean −0.0008816
Std Dev 0.2055
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.8958 / 44
p0 33.09 ± 3.425
pull
Entries 45
Mean 220.4
Std Dev 202.8

pull1D
Entries 45
Mean −0.003238
Std Dev 0.1411

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 0.939 / 44
p0 −1.569 ± 0.1081
pull
Entries 45
Mean 460.2
Std Dev 435.8

pull1D
Entries 45
Mean 0.0006006
Std Dev 0.1444

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 1.361 / 44
p0 −65.56 ± 5.132
0
−20
−40
−60
−80
−100
−120
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −74.89
Std Dev 129.8
0.6
0.4
0.2
0
−0.2

pull1D
Entries 45
Mean −0.000335
Std Dev 0.1739
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.4031 / 44
p0 39.77 ± 5.236
pull
Entries 45
Mean 80
Std Dev 64.38

pull1D
Entries 45
Mean 0.002598
Std Dev 0.09461

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 1.503 / 44
p0 −42.65 ± 4.467
0
−20
−40
−60
−80
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −717.4
Std Dev 733.9
0.2
0
−0.2
−0.4
−0.6
−0.8

pull1D
Entries 45
Mean −0.0003781
Std Dev 0.1827
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.4137 / 44
p0 16.8 ± 5.912
pull
Entries 45
Mean 129.1
Std Dev 112.6

pull1D
Entries 45
Mean −0.002055
Std Dev 0.09586

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ^2 / ndf 0.7963 / 44
p0 −2.092 ± 0.1865
pull
Entries 45
Mean 1.576e+04
Std Dev 1.574e+04

pull1D
Entries 45
Mean 2.068e−05
Std Dev 0.133

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 2.787 / 44
p0 −34.63 ± 2.037
−10
−20
−30
−40
−50
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −427.5
Std Dev 454.6
0.8
0.6
0.4
0.2
0
−0.2
−0.4

pull1D
Entries 45
Mean −0.001089
Std Dev 0.2489
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.506 / 44
p0 0.3328 ± 2.079
pull
Entries 45
Mean 238.4
Std Dev 217.6

pull1D
Entries 45
Mean 0.004025
Std Dev 0.1829

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.074 / 44
p0 −8.367 ± 1.773
10
0
−10
−20
−30
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −104.8
Std Dev 19.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

pull1D
Entries 45
Mean −0.0003141
Std Dev 0.2614
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.267 / 44
p0 7.753 ± 2.347
pull
Entries 45
Mean 196.3
Std Dev 176

pull1D
Entries 45
Mean −0.003956
Std Dev 0.1678

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 1.968 / 44
p0 −0.3029 ± 0.07403
pull
Entries 45
Mean −1070
Std Dev 1092

pull1D
Entries 45
Mean −0.0006078
Std Dev 0.2091

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 1.66 / 44
p0 −59.92 ± 4.265
−20
−40
−60
−80
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −37.31
Std Dev 84.02
0.6
0.4
0.2
0
−0.2
pull1D
Entries 45
Mean −0.0009648
Std Dev 0.1921
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.5814 / 44
p0 −5.015 ± 4.352
pull
Entries 45
Mean 146.8
Std Dev 124.9

pull1D
Entries 45
Mean 0.002252
Std Dev 0.1136

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.908 / 44
p0 −28.47 ± 3.712
pull
Entries 45
Mean −3535
Std Dev 3553

pull1D
Entries 45
Mean −0.0001033
Std Dev 0.2059

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.5777 / 44
p0 −8.52 ± 4.914
pull
Entries 45
Mean 82.55
Std Dev 60.82

pull1D
Entries 45
Mean −0.00247
Std Dev 0.1133

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 1.352 / 44
p0 −0.8239 ± 0.155
pull
Entries 45
Mean −418.9
Std Dev 439.4

pull1D
Entries 45
Mean −0.001182
Std Dev 0.1734

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ2 / ndf 0.794 / 44
p0 27.92 ± 2.829
pull
Entries 45
Mean 952.1
Std Dev 914

pull1D
Entries 45
Mean −5.061e−05
Std Dev 0.1328

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.2038 / 44
p0 −18.7 ± 2.887
pull
Entries 45
Mean −29.09
Std Dev 62.84

pull1D
Entries 45
Mean −0.001457
Std Dev 0.06729

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ2 / ndf 0.9068 / 44
p0 30.89 ± 2.462
pull
Entries 45
Mean −249.3
Std Dev 264
pull1D
Entries 45
Mean 0.0005768
Std Dev 0.142

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.2249 / 44
p0 −9.988 ± 3.259
pull
Entries 45
Mean 63.18
Std Dev 64.52

pull1D
Entries 45
Mean 0.0009547
Std Dev 0.07068

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 0.3929 / 44
p0 1.142 ± 0.1028
pull
Entries 45
Mean 547.3
Std Dev 525.3

pull1D
Entries 45
Mean −0.0005951
Std Dev 0.09344

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 3.139 / 44
p0 2.629 ± 0.7745
pull
Entries 45
Mean 366.3
Std Dev 344.5

pull1D
Entries 45
Mean −0.003272
Std Dev 0.2641

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.493 / 44
p0 −24.03 ± 0.7901
pull
Entries 45
Mean 118
Std Dev 107

pull1D
Entries 45
Mean −0.005256
Std Dev 0.2786

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.545 / 44
p0 10.77 ± 0.6741
pull
Entries 45
Mean 339.1
Std Dev 316.5

pull1D
Entries 45
Mean 0.004174
Std Dev 0.2807

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 3.547 / 44
p0 −26.3 ± 0.892
pull
Entries 45
Mean 351.1
Std Dev 335

pull1D
Entries 45
Mean 0.003507
Std Dev 0.2807

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 4.048 / 44
p0 0.6192 ± 0.02815
pull
Entries 45
Mean 11.5
Std Dev 56.61

pull1D
Entries 45
Mean −0.002023
Std Dev 0.2999

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ2 / ndf 1.131 / 44
p0 22.27 ± 2.017
pull
Entries 45
Mean −49.08
Std Dev 84.34

pull1D
Entries 45
Mean 0.001382
Std Dev 0.1585

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ2 / ndf 0.6382 / 44
p0 26.09 ± 2.059
pull
Entries 45
Mean 215.8
Std Dev 183

pull1D
Entries 45
Mean −0.0005895
Std Dev 0.1191

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ2 / ndf 1.403 / 44
p0 16.72 ± 1.756
pull
Entries 45
Mean 1119
Std Dev 1101

pull1D
Entries 45
Mean −0.0002661
Std Dev 0.1766

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.6439 / 44
p0 15.31 ± 2.325
pull
Entries 45
Mean −77.42
Std Dev 91.11

pull1D
Entries 45
Mean 0.001834
Std Dev 0.1196

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 1.4 / 44
p0 −0.1263 ± 0.07332
pull
Entries 45
Mean −252.8
Std Dev 272.9

pull1D
Entries 45
Mean 0.002566
Std Dev 0.1764

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.302 / 44
p0 20.75 ± 0.3508
pull
Entries 45
Mean 4750
Std Dev 4728

pull1D
Entries 45
Mean −0.0004812
Std Dev 0.4028

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.416 / 44
p0 −0.9488 ± 0.396
pull
Entries 45
Mean 1288
Std Dev 1264

pull1D
Entries 45
Mean 0.0008678
Std Dev 0.3469

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 9.889 / 44
p0 −0.6456 ± 0.0125
pull
Entries 45
Mean 289.4
Std Dev 266.4
pull1D
Entries 45
Mean −0.006226
Std Dev 0.4687

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 2.451 / 44
p0 −37.64 ± 2.306
−10
−20
−30
−40
−50
−60
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 2.63
Std Dev 70.05
0.8
0.6
0.4
0.2
0
−0.2
−0.4

pull1D
Entries 45
Mean −0.0008259
Std Dev 0.2334
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ2 / ndf 0.9197 / 44
p0 21.07 ± 2.353
pull
Entries 45
Mean 129.4
Std Dev 109.9

pull1D
Entries 45
Mean 0.003969
Std Dev 0.1429

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.651 / 44
p0 −11.75 ± 2.007
10
0
−10
−20
−30
−40
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −1801
Std Dev 1818
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

pull1D
Entries 45
Mean −0.0002347
Std Dev 0.2427
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 0.871 / 44
p0 6.808 ± 2.657
pull
Entries 45
Mean 150.8
Std Dev 131.8

pull1D
Entries 45
Mean −0.003428
Std Dev 0.1391

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 1.645 / 44
p0 −0.9495 ± 0.08381
0
−0.5
−1
−1.5
−2
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −569.1
Std Dev 590
0.4
0.2
0
−0.2
−0.4

pull1D
Entries 45
Mean −0.0005785
Std Dev 0.1912
22
20
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_bpm1X_slope vs run
χ² / ndf 1.352 / 44
p0 −62.55 ± 4.859
0
−20
−40
−60
−80
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −531.3
Std Dev 559.7
0.6
0.4
0.2
0
−0.2

pull1D
Entries 45
Mean −0.0004169
Std Dev 0.1733
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.4862 / 44
p0 19.02 ± 4.958
pull
Entries 45
Mean 141.3
Std Dev 122.3

pull1D
Entries 45
Mean 0.002703
Std Dev 0.1039

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.508 / 44
p0 −39.27 ± 4.229
pull
Entries 45
Mean −301.5
Std Dev 307.8

pull1D
Entries 45
Mean −0.0003405
Std Dev 0.1831

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 0.4703 / 44
p0 17.74 ± 5.598
pull
Entries 45
Mean 161
Std Dev 142.7

pull1D
Entries 45
Mean −0.002243
Std Dev 0.1022

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 0.8057 / 44
p0 −1.445 ± 0.1766
pull
Entries 45
Mean 6797
Std Dev 6776

pull1D
Entries 45
Mean 6.777e−05
Std Dev 0.1338

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 0.8051 / 44
p0 12.45 ± 1.281
pull
Entries 45
Mean −1812
Std Dev 1837

pull1D
Entries 45
Mean 0.0002304
Std Dev 0.1338

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.308 / 44
p0 1.025 ± 1.307
pull
Entries 45
Mean 160.2
Std Dev 142.1

pull1D
Entries 45
Mean −0.001655
Std Dev 0.08272

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ2 / ndf 0.916 / 44
p0 13.76 ± 1.115
pull
Entries 45
Mean 570
Std Dev 540.3

pull1D
Entries 45
Mean 0.0003217
Std Dev 0.1427

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.3103 / 44
p0 −5.469 ± 1.476
pull
Entries 45
Mean 180.8
Std Dev 164.2

pull1D
Entries 45
Mean 0.001221
Std Dev 0.08303

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 0.4465 / 44
p0 0.2478 ± 0.04656
pull
Entries 45
Mean 861.6
Std Dev 839.2
pull1D
Entries 45
Mean −0.0006701
Std Dev 0.09961

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 1.65 / 44
p0 −50.1 ± 3.581
pull
Entries 45
Mean −286
Std Dev 317.8

pull1D
Entries 45
Mean −0.0005252
Std Dev 0.1915

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.821 / 44
p0 −25.51 ± 3.117
pull
Entries 45
Mean −638.4
Std Dev 651.9

pull1D
Entries 45
Mean −0.0003218
Std Dev 0.2012

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.5739 / 44
p0 12.28 ± 4.125
pull
Entries 45
Mean 157
Std Dev 138.4

pull1D
Entries 45
Mean −0.002619
Std Dev 0.1129

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 1.026 / 44
p0 −1.197 ± 0.1301
pull
Entries 45
Mean −2938
Std Dev 2960

pull1D
Entries 45
Mean −0.0001425
Std Dev 0.151

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 62.59 / 44
p0 8.779 ± 5.277
150
100
50
0
−50
−100
−150
−200
−250
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 104.3
Std Dev 88.32
2
1
0
−1
−2
−3

pull1D
Entries 45
Mean 0.03793
Std Dev 1.179
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 44.94 / 44
p0 −1.48 ± 5.385
pull
Entries 45
Mean 557.3
Std Dev 531.5

pull1D
Entries 45
Mean 0.005885
Std Dev 0.9994

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 62.34 / 44
p0 26.41 ± 4.593
pull
Entries 45
Mean 101.4
Std Dev 85.13
pull1D
Entries 45
Mean −0.04051
Std Dev 1.176

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 46.07 / 44
p0 −8.032 ± 6.079
100
0
−100
−200
−300
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 479.1
Std Dev 453.2
2
1
0
−1
−2
−3

pull1D
Entries 45
Mean −0.00612
Std Dev 1.012
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 52.5 / 44
p0 −2.025 ± 0.1918
pull
Entries 45
Mean 372.6
Std Dev 355

pull1D
Entries 45
Mean 0.00799
Std Dev 1.08

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 3.52 / 44
p0 −234.9 ± 18.15
pull
Entries 45
Mean −416
Std Dev 434.8

pull1D
Entries 45
Mean 0.001986
Std Dev 0.2797

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 2.887 / 44
p0 72.06 ± 18.52
pull
Entries 45
Mean −751.2
Std Dev 777.4

pull1D
Entries 45
Mean 0.001163
Std Dev 0.2533

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 3.731 / 44
p0 148.2 ± 15.8
pull
Entries 45
Mean −824.3
Std Dev 843.9

pull1D
Entries 45
Mean −0.001202
Std Dev 0.2879

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 2.702 / 44
p0 47.84 ± 20.91
pull
Entries 45
Mean −557.6
Std Dev 584.4
pull1D
Entries 45
Mean −0.001379
Std Dev 0.245

reg_asym_atl2_diff_bpm12X_slope vs run
χ^2 / ndf 4.185 / 44
p0 −252.9 ± 0.6599
pull
Entries 45
Mean 1049
Std Dev 1021

pull1D
Entries 45
Mean 0.001038
Std Dev 0.305

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 32.07 / 44
p0 −78.65 ± 6.69
50
0
−50
−100
−150
−200
−250
−300
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 422.7
Std Dev 397.5
2
1
0
−1
−2
−3

pull1D
Entries 45
Mean −0.006107
Std Dev 0.8442
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atr1_diff_bpm4aY_slope vs run
χ2 / ndf 29.67 / 44
p0 7.668 ± 6.827
200
150
100
50
0
−50
−100
7776. 0
7776. 1
7776. 0
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 304.4
Std Dev 283.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 45
Mean −0.003009
Std Dev 0.812
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 32.07 / 44
p0 14.49 ± 5.823
pull
Entries 45
Mean 360.8
Std Dev 335.5

pull1D
Entries 45
Mean 0.007701
Std Dev 0.8442

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 28.41 / 44
p0 4.266 ± 7.707
150
100
50
0
−50
−100
−150
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 426.9
Std Dev 405.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

pull1D
Entries 45
Mean 0.001758
Std Dev 0.7945
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 64.49 / 44
p0 −58.1 ± 0.2431
−52
−54
−56
−58
−60
−62
−64
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 560.6
Std Dev 540.4
2
1
0
−1
−2
−3

pull1D
Entries 45
Mean 0.01156
Std Dev 1.197
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 1.85 / 44
p0 −226 ± 27.29
100
0
−100
−200
−300
−400
−500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −11.29
Std Dev 26.91
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

pull1D
Entries 45
Mean 0.002448
Std Dev 0.2028
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atr2_diff_bpm4aY_slope vs run
χ2 / ndf 1.689 / 44
p0 103.6 ± 27.84
pull
Entries 45
Mean 67.08
Std Dev 31.43

pull1D
Entries 45
Mean −0.00287
Std Dev 0.1937

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 1.834 / 44
p0 317.9 ± 23.75
600
500
400
300
200
100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −37.65
Std Dev 58.42
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

pull1D
Entries 45
Mean −0.00236
Std Dev 0.2019
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 1.636 / 44
p0 18.74 ± 31.43
pull
Entries 45
Mean 49.77
Std Dev 27.8

pull1D
Entries 45
Mean 0.002375
Std Dev 0.1906

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 2.404 / 44
p0 −296.2 ± 0.9917
−285
−290
−295
−300
−305
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 747.8
Std Dev 722.2
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 45
Mean 0.001391
Std Dev 0.2311
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_diff_bpm1X_slope vs run
χ² / ndf 7.581 / 44
p0 −113.5 ± 9.959
pull
Entries 45
Mean 12.35
Std Dev 25.86

pull1D
Entries 45
Mean 0.01095
Std Dev 0.4103

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.695 / 44
p0 35.5 ± 10.16
pull
Entries 45
Mean 46.23
Std Dev 19.51
pull1D
Entries 45
Mean 0.004902
Std Dev 0.323

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.635 / 44
p0 87.66 ± 8.667
pull
Entries 45
Mean 2.814
Std Dev 31.42

pull1D
Entries 45
Mean −0.01089
Std Dev 0.4118

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.698 / 44
p0 19.6 ± 11.47
pull
Entries 45
Mean 47.34
Std Dev 23.25

pull1D
Entries 45
Mean −0.005144
Std Dev 0.3231

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 10.34 / 44
p0 −127.5 ± 0.362
−122
−124
−126
−128
−130
−132
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 681.9
Std Dev 659.2
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

pull1D
Entries 45
Mean 0.002334
Std Dev 0.4792
16
14
12
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 9.199 / 44
p0 121.3 ± 9.021
250
200
150
100
50
0
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 197.3
Std Dev 181
1
0.5
0
−0.5
−1

pull1D
Entries 45
Mean 0.009233
Std Dev 0.452
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 8.369 / 44
p0 −36.45 ± 9.204
pull
Entries 45
Mean 844
Std Dev 817.8

pull1D
Entries 45
Mean 0.002395
Std Dev 0.4312

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.459 / 44
p0 −60.4 ± 7.851
50
0
−50
−100
−150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 188.2
Std Dev 171
1
0.5
0
−0.5
−1

pull1D
Entries 45
Mean −0.01083
Std Dev 0.4584
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 8.265 / 44
p0 −28.29 ± 10.39
pull
Entries 45
Mean 716
Std Dev 689.4

pull1D
Entries 45
Mean −0.002552
Std Dev 0.4286

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ^2 / ndf 5.499 / 44
p0 125.4 ± 0.3279
130
128
126
124
122
120
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 657.1
Std Dev 605.3
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

pull1D
Entries 45
Mean −0.0005689
Std Dev 0.3496
18
16
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 3.1 / 44
p0 −152.5 ± 15.05
pull
Entries 45
Mean −375.5
Std Dev 399.4

pull1D
Entries 45
Mean 0.001569
Std Dev 0.2624

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ2 / ndf 3.089 / 44
p0 55.41 ± 15.35
pull
Entries 45
Mean 150.6
Std Dev 125.1
pull1D
Entries 45
Mean −0.002368
Std Dev 0.262

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 3.16 / 44
p0 166.3 ± 13.09
pull
Entries 45
Mean −611.8
Std Dev 636.1

pull1D
Entries 45
Mean −0.001125
Std Dev 0.265

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 2.95 / 44
p0 11.71 ± 17.33
pull
Entries 45
Mean 147.9
Std Dev 118.8

pull1D
Entries 45
Mean 0.001714
Std Dev 0.256

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ^2 / ndf 5.807 / 44
p0 −177.2 ± 0.5469
pull
Entries 45
Mean 744.3
Std Dev 722
pull1D
Entries 45
Mean 0.003173
Std Dev 0.3592

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 4.2 / 44
p0 73.55 ± 12.97
pull
Entries 45
Mean 179.8
Std Dev 153.6

pull1D
Entries 45
Mean −0.003486
Std Dev 0.3055

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.545 / 44
p0 −48.13 ± 13.23
pull
Entries 45
Mean −2.822
Std Dev 24.35

pull1D
Entries 45
Mean 0.003223
Std Dev 0.2806

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 4.082 / 44
p0 −151.6 ± 11.29
pull
Entries 45
Mean 160.9
Std Dev 134.7

pull1D
Entries 45
Mean 0.003805
Std Dev 0.3012

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.436 / 44
p0 −7.043 ± 14.94
pull
Entries 45
Mean −15.37
Std Dev 7.1

pull1D
Entries 45
Mean −0.002955
Std Dev 0.2763

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 6.046 / 44
p0 119.1 ± 0.4715
pull
Entries 45
Mean 304
Std Dev 294.4

pull1D
Entries 45
Mean 0.001919
Std Dev 0.3665

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 37.05 / 44
p0 −35.73 ± 4.287
50
0
−50
−100
−150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 5.836
Std Dev 43.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

pull1D
Entries 45
Mean 0.02335
Std Dev 0.9071
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 31.39 / 44
p0 3.288 ± 4.374
pull
Entries 45
Mean 460.1
Std Dev 431.5

pull1D
Entries 45
Mean 0.00333
Std Dev 0.8352

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 36.72 / 44
p0 21.11 ± 3.731
pull
Entries 45
Mean 3.505
Std Dev 45.05

pull1D
Entries 45
Mean −0.02337
Std Dev 0.903

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 30.88 / 44
p0 −2.087 ± 4.938
pull
Entries 45
Mean 299.7
Std Dev 271.3

pull1D
Entries 45
Mean −0.004864
Std Dev 0.8284

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ2 / ndf 69.47 / 44
p0 −30.1 ± 0.1558
−28
−30
−32
−34
−36
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 338.6
Std Dev 319.8
2
1
0
−1
−2
−3
−4

pull1D
Entries 45
Mean 0.0188
Std Dev 1.242
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 48.75 / 44
p0 44.27 ± 4.282
150
100
50
0
−50
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 223.8
Std Dev 203.3
2
1
0
−1
−2

pull1D
Entries 45
Mean 0.02005
Std Dev 1.041
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 39.83 / 44
p0 −4.758 ± 4.369
150
100
50
0
−50
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 262.3
Std Dev 237.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 45
Mean 0.01084
Std Dev 0.9408
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 49.04 / 44
p0 5.505 ± 3.727
150
100
50
0
−50
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 202.6
Std Dev 181.7
2
1
0
−1
−2

pull1D
Entries 45
Mean −0.0234
Std Dev 1.044
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ2 / ndf 39.77 / 44
p0 −5.97 ± 4.933
100
50
0
−50
−100
−150
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 252.1
Std Dev 227.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 45
Mean −0.009966
Std Dev 0.9401
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ2 / ndf 42.53 / 44
p0 28.08 ± 0.1557
pull
Entries 45
Mean 164.4
Std Dev 143.1

pull1D
Entries 45
Mean −0.0191
Std Dev 0.972

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ^2 / ndf 1.526 / 44
p0 −230.4 ± 22.13
0
−100
−200
−300
−400
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −175.5
Std Dev 194
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

pull1D
Entries 45
Mean 0.002062
Std Dev 0.1841
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_bpm4aY_slope vs run
χ^2 / ndf 1.113 / 44
p0 87.82 ± 22.58
pull
Entries 45
Mean 355.8
Std Dev 328.3

pull1D
Entries 45
Mean −0.001348
Std Dev 0.1572

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ2 / ndf 1.561 / 44
p0 233 ± 19.26
pull
Entries 45
Mean −279
Std Dev 298.9

pull1D
Entries 45
Mean −0.001675
Std Dev 0.1863

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ2 / ndf 1.04 / 44
p0 33.27 ± 25.49
pull
Entries 45
Mean 406.7
Std Dev 377.4

pull1D
Entries 45
Mean 0.0009613
Std Dev 0.152

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 2.41 / 44
p0 −274.6 ± 0.8044
−265
−270
−275
−280
−285
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 1016
Std Dev 989.8
0.4
0.2
0
−0.2
−0.4
−0.6

pull1D
Entries 45
Mean 0.001066
Std Dev 0.2314
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 11.25 / 44
p0 4.401 ± 6.874
100
50
0
−50
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 352.5
Std Dev 333.4
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 45
Mean 0.002993
Std Dev 0.5001
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 11.87 / 44
p0 15.74 ± 7.015
pull
Entries 45
Mean −106.9
Std Dev 131.1

pull1D
Entries 45
Mean −0.007013
Std Dev 0.5135

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ2 / ndf 11.49 / 44
p0 84.91 ± 5.983
pull
Entries 45
Mean 302.7
Std Dev 283.4

pull1D
Entries 45
Mean −0.0038
Std Dev 0.5053

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.57 / 44
p0 −14.55 ± 7.919
pull
Entries 45
Mean −118.1
Std Dev 141.6

pull1D
Entries 45
Mean 0.006438
Std Dev 0.5071

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ^2 / ndf 8.551 / 44
p0 −21.64 ± 0.2498
pull
Entries 45
Mean 244.4
Std Dev 223

pull1D
Entries 45
Mean 0.002734
Std Dev 0.4359

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 4.192 / 44
p0 −109.1 ± 14.62
pull
Entries 45
Mean 65.52
Std Dev 52.04

pull1D
Entries 45
Mean 0.008578
Std Dev 0.3051

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.158 / 44
p0 51.66 ± 14.92
pull
Entries 45
Mean −363
Std Dev 387.4

pull1D
Entries 45
Mean −0.001484
Std Dev 0.2649

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 4.149 / 44
p0 172.6 ± 12.72
pull
Entries 45
Mean 60.26
Std Dev 47.85
pull1D
Entries 45
Mean −0.008908
Std Dev 0.3035

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.988 / 44
p0 4.562 ± 16.84
pull
Entries 45
Mean −520.6
Std Dev 544.2

pull1D
Entries 45
Mean 0.001067
Std Dev 0.2577

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 6.024 / 44
p0 −149.1 ± 0.5314
pull
Entries 45
Mean 733.3
Std Dev 710.9

pull1D
Entries 45
Mean 0.00185
Std Dev 0.3659

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ2 / ndf 4.116 / 44
p0 116.4 ± 13.23
pull
Entries 45
Mean 103.7
Std Dev 90.44
pull1D
Entries 45
Mean 0.006549
Std Dev 0.3024

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.611 / 44
p0 −52.24 ± 13.5
pull
Entries 45
Mean 169
Std Dev 141.6

pull1D
Entries 45
Mean 0.005872
Std Dev 0.2832

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.067 / 44
p0 −145 ± 11.52
pull
Entries 45
Mean 108.8
Std Dev 93.76

pull1D
Entries 45
Mean −0.007142
Std Dev 0.3005

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.831 / 44
p0 −13.7 ± 15.24
pull
Entries 45
Mean 151.5
Std Dev 122.7

pull1D
Entries 45
Mean −0.005653
Std Dev 0.2917

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ^2 / ndf 2.356 / 44
p0 147.1 ± 0.4811
152
150
148
146
144
142
140
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 3115
Std Dev 3082
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

pull1D
Entries 45
Mean −0.0002041
Std Dev 0.2288
24
22
20
18
16
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 6.238 / 44
p0 −156.9 ± 10.93
pull
Entries 45
Mean −3476
Std Dev 3498

pull1D
Entries 45
Mean 0.0004238
Std Dev 0.3723

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.538 / 44
p0 39.76 ± 11.15
pull
Entries 45
Mean −1500
Std Dev 1525

pull1D
Entries 45
Mean 0.0006584
Std Dev 0.3508

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.527 / 44
p0 81.45 ± 9.51
pull
Entries 45
Mean 2332
Std Dev 2310

pull1D
Entries 45
Mean 0.000716
Std Dev 0.3809

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 4.977 / 44
p0 26.15 ± 12.59
pull
Entries 45
Mean −745.5
Std Dev 770.9

pull1D
Entries 45
Mean −0.001143
Std Dev 0.3325

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 11.8 / 44
p0 −155.5 ± 0.3971
pull
Entries 45
Mean 653
Std Dev 630.5
pull1D
Entries 45
Mean 0.004419
Std Dev 0.512

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ^2 / ndf 8.247 / 44
p0 78.14 ± 8.236
pull
Entries 45
Mean 31.36
Std Dev 49.97

pull1D
Entries 45
Mean −0.004653
Std Dev 0.4281

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.021 / 44
p0 −32.28 ± 8.403
100
50
0
−50
−100
−150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −333.5
Std Dev 362.6
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

pull1D
Entries 45
Mean −0.001816
Std Dev 0.395
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.25 / 44
p0 −66.86 ± 7.168
pull
Entries 45
Mean 9.895
Std Dev 50.36

pull1D
Entries 45
Mean 0.004468
Std Dev 0.4282

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.118 / 44
p0 −21.7 ± 9.487
pull
Entries 45
Mean −342
Std Dev 371.4

pull1D
Entries 45
Mean 0.001629
Std Dev 0.3977

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 10.73 / 44
p0 97.41 ± 0.2994
102
101
100
99
98
97
96
95
94
93
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 257.9
Std Dev 243.8
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

pull1D
Entries 45
Mean 0.005811
Std Dev 0.4882
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
χ^2 / ndf 2.86 / 44
p0 97.07 ± 10.33
pull
Entries 45
Mean 102.7
Std Dev 97.16

pull1D
Entries 45
Mean 0.003771
Std Dev 0.2521

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.527 / 44
p0 −42.14 ± 10.54
50
0
−50
−100
−150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 370
Std Dev 342.1
0.4
0.2
0
−0.2
−0.4

pull1D
Entries 45
Mean 0.002408
Std Dev 0.237
22
20
18
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_bpm4eX_slope vs run
χ² / ndf 2.823 / 44
p0 −105.7 ± 8.989
0
−50
−100
−150
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 117.5
Std Dev 107.8
0.6
0.4
0.2
0
−0.2
−0.4

pull1D
Entries 45
Mean −0.004177
Std Dev 0.2504
22
20
18
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 2.62 / 44
p0 −17.86 ± 11.9
100
50
0
−50
−100
−150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 345.4
Std Dev 316.6
0.4
0.2
0
−0.2
−0.4

pull1D
Entries 45
Mean −0.002271
Std Dev 0.2413
22
20
18
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_bpm12X_slope vs run
χ² / ndf 2.929 / 44
p0 122.2 ± 0.3755
126
125
124
123
122
121
120
119
118
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 55.93
Std Dev 82.18
0.4
0.2
0
−0.2
−0.4
−0.6

pull1D
Entries 45
Mean 0.003217
Std Dev 0.2551
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 21.9 / 44
p0 24.38 ± 4.281
pull
Entries 45
Mean 347.7
Std Dev 328

pull1D
Entries 45
Mean 0.008297
Std Dev 0.6975

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.09 / 44
p0 5.929 ± 4.369
80
60
40
20
0
−20
−40
−60
−80
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −573.4
Std Dev 597.9
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 45
Mean −0.003673
Std Dev 0.6682
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.17 / 44
p0 45.16 ± 3.726
pull
Entries 45
Mean 294
Std Dev 273.9

pull1D
Entries 45
Mean −0.01052
Std Dev 0.7019

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.91 / 44
p0 −10.78 ± 4.932
pull
Entries 45
Mean −514.2
Std Dev 538.6

pull1D
Entries 45
Mean 0.003803
Std Dev 0.6482

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 21.36 / 44
p0 3.217 ± 0.1556
pull
Entries 45
Mean 113.7
Std Dev 91.24

pull1D
Entries 45
Mean −0.01129
Std Dev 0.6889

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 2.752 / 44
p0 −133.2 ± 12.17
0
−50
−100
−150
−200
−250
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −52.87
Std Dev 79.22
0.4
0.2
0
−0.2
−0.4
−0.6

pull1D
Entries 45
Mean 0.006232
Std Dev 0.2472
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.016 / 44
p0 45.74 ± 12.42
pull
Entries 45
Mean 172
Std Dev 146.4

pull1D
Entries 45
Mean −0.0006754
Std Dev 0.2117

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ2 / ndf 2.811 / 44
p0 127.2 ± 10.59
250
200
150
100
50
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −74.16
Std Dev 100.5
0.6
0.4
0.2
0
−0.2
−0.4

pull1D
Entries 45
Mean −0.005851
Std Dev 0.2499
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.812 / 44
p0 15.32 ± 14.02
pull
Entries 45
Mean 192.3
Std Dev 150.9

pull1D
Entries 45
Mean 0.0002341
Std Dev 0.2006

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 6.149 / 44
p0 −152.3 ± 0.4425
−148
−150
−152
−154
−156
−158
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 521.3
Std Dev 498.9
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 45
Mean 0.004028
Std Dev 0.3696
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_dd_diff_bpm1X_slope vs run
χ² / ndf 22.22 / 44
p0 19.65 ± 3.84
pull
Entries 45
Mean 150.8
Std Dev 130.2

pull1D
Entries 45
Mean 0.008869
Std Dev 0.7026

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.12 / 44
p0 −10.24 ± 3.918
80
60
40
20
0
−20
−40
−60
−80
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 68.05
Std Dev 42.47
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 45
Mean 0.01432
Std Dev 0.6516
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.03 / 44
p0 4.301 ± 4.423
pull
Entries 45
Mean 57.24
Std Dev 28.89

pull1D
Entries 45
Mean −0.01373
Std Dev 0.6671

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 229.3 / 44
p0 74.04 ± 0.6596
pull
Entries 45
Mean −72.59
Std Dev 92.65

pull1D
Entries 45
Mean 0.1459
Std Dev 2.252

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 70.4 / 44
p0 −22.23 ± 0.6729
pull
Entries 45
Mean −58.73
Std Dev 78.73

pull1D
Entries 45
Mean −0.04357
Std Dev 1.25

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 212.8 / 44
p0 −64.45 ± 0.5743
−40
−50
−60
−70
−80
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −69.81
Std Dev 89.74
8
6
4
2
0
−2

pull1D
Entries 45
Mean −0.1348
Std Dev 2.17
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 67.39 / 44
p0 23.19 ± 0.7597
pull
Entries 45
Mean −73.99
Std Dev 93.44

pull1D
Entries 45
Mean 0.03916
Std Dev 1.223

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 157.6 / 44
p0 1.822 ± 0.02396
pull
Entries 45
Mean −101
Std Dev 120.3

pull1D
Entries 45
Mean 0.1018
Std Dev 1.868

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 231.1 / 44
p0 74.21 ± 0.6571
pull
Entries 45
Mean −72.73
Std Dev 92.79

pull1D
Entries 45
Mean 0.1466
Std Dev 2.261

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 71.2 / 44
p0 −22.68 ± 0.6704
pull
Entries 45
Mean −57.93
Std Dev 77.91

pull1D
Entries 45
Mean −0.04347
Std Dev 1.257

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 68.25 / 44
p0 23.68 ± 0.7569
pull
Entries 45
Mean −73.39
Std Dev 92.84

pull1D
Entries 45
Mean 0.03927
Std Dev 1.231

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 160.5 / 44
p0 1.831 ± 0.02387
pull
Entries 45
Mean −100.8
Std Dev 120.1

pull1D
Entries 45
Mean 0.1029
Std Dev 1.886

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 231.7 / 44
p0 74.46 ± 0.6594
pull
Entries 45
Mean −72.26
Std Dev 92.29

pull1D
Entries 45
Mean 0.1461
Std Dev 2.264

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 70.86 / 44
p0 −22.75 ± 0.6728
pull
Entries 45
Mean −57.86
Std Dev 77.96

pull1D
Entries 45
Mean −0.04355
Std Dev 1.254

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 215.2 / 44
p0 −64.84 ± 0.5742
−40
−50
−60
−70
−80
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −69.42
Std Dev 89.33
8
6
4
2
0
−2

pull1D
Entries 45
Mean −0.1351
Std Dev 2.182
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 68.02 / 44
p0 23.74 ± 0.7595
pull
Entries 45
Mean −72.8
Std Dev 92.34

pull1D
Entries 45
Mean 0.03921
Std Dev 1.229

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 160.2 / 44
p0 1.837 ± 0.02396
pull
Entries 45
Mean −101
Std Dev 120.3

pull1D
Entries 45
Mean 0.1024
Std Dev 1.884

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 230.6 / 44
p0 73.78 ± 0.6611
pull
Entries 45
Mean −70.59
Std Dev 90.52

pull1D
Entries 45
Mean 0.1492
Std Dev 2.259

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 70.89 / 44
p0 −22.22 ± 0.6745
pull
Entries 45
Mean −63.72
Std Dev 84.44

pull1D
Entries 45
Mean −0.04419
Std Dev 1.254

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 214.2 / 44
p0 −64.25 ± 0.5756
−40
−50
−60
−70
−80
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −67.84
Std Dev 87.62
8
6
4
2
0
−2

pull1D
Entries 45
Mean −0.138
Std Dev 2.177
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 67.71 / 44
p0 23.17 ± 0.7615
pull
Entries 45
Mean −79.79
Std Dev 99.89

pull1D
Entries 45
Mean 0.03994
Std Dev 1.226

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 161.5 / 44
p0 1.818 ± 0.02402
pull
Entries 45
Mean −100.1
Std Dev 119.3

pull1D
Entries 45
Mean 0.1049
Std Dev 1.892

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 219.5 / 44
p0 73.33 ± 0.6644
90
80
70
60
50
40
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −65.35
Std Dev 85.28
2
0
−2
−4
−6
−8

pull1D
Entries 45
Mean 0.1483
Std Dev 2.203
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 66.54 / 44
p0 −22.1 ± 0.6778
pull
Entries 45
Mean −63.79
Std Dev 84.75

pull1D
Entries 45
Mean −0.04079
Std Dev 1.215

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 204.7 / 44
p0 −63.83 ± 0.5785
−40
−50
−60
−70
−80
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −61.83
Std Dev 81.59
8
6
4
2
0
−2
pull1D
Entries 45
Mean −0.138
Std Dev 2.129
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 63.48 / 44
p0 23.07 ± 0.7652
pull
Entries 45
Mean −80.83
Std Dev 101

pull1D
Entries 45
Mean 0.03638
Std Dev 1.187

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 148.2 / 44
p0 1.807 ± 0.02414
pull
Entries 45
Mean −95.22
Std Dev 114.1

pull1D
Entries 45
Mean 0.1024
Std Dev 1.812