dit_asym_us_avg_mean vs run
χ² / ndf 38.24 / 36
p0 −3015 ± 1431
60000
40000
20000
0
−20000
−40000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −22.77
Std Dev 46.53
pull1D
Entries 37
Mean 0.01087
Std Dev 1.017

dit_asym_us_avg_rms vs run
χ2 / ndf 2.6e+04 / 36
p0 825.5 ± 1.012
1800
1600
1400
1200
1000
800
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_us_avg_correction_mean vs run
×10^3
χ² / ndf 39.85 / 36
p0 −19.38 ± 3230
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −63.04
Std Dev 78.12
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean −0.004528
Std Dev 1.038
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_us_avg_correction_rms vs run
χ2 / ndf 6.218e+04 / 36
p0 1812 ± 2.284
3000
2500
2000
1500
1000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_us_avg_mean vs run
×10^3
χ² / ndf 36.09 / 36
p0 −2897 ± 3966
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −67.11
Std Dev 85.79

pull1D
Entries 37
Mean 0.005009
Std Dev 0.9876

asym_us_avg_rms vs run
χ2 / ndf 1.194e+04 / 36
p0 2312 ± 2.804
2800
2600
2400
2200
2000
1800
1600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_us_dd_mean vs run
χ² / ndf 29.87 / 36
p0 340.6 ± 1403
60000
40000
20000
0
−20000
−40000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 216.6
Std Dev 197
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 37
Mean 0.009608
Std Dev 0.8985
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 2.612e+04 / 36
p0 809.2 ± 0.992
1600
1400
1200
1000
800
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_us_dd_correction_mean vs run
×10^3
χ² / ndf 35.3 / 36
p0 2872 ± 4518
100
80
60
40
20
0
−20
−40
−60
−80
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 166.5
Std Dev 146.6
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean 0.006247
Std Dev 0.9767
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 5539 / 36
p0 2646 ± 3.194
3600
3400
3200
3000
2800
2600
2400
2200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_us_dd_mean vs run
×10^3
χ^2 / ndf 40.75 / 36
p0 228.2 ± 4165
120
100
80
60
40
20
0
−20
−40
−60
−80
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 183.5
Std Dev 165.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean 0.01454
Std Dev 1.049
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_us_dd_rms vs run
χ² / ndf 9524 / 36
p0 2432 ± 2.945
3000
2800
2600
2400
2200
2000
1800
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_usl_mean vs run
×10^3
χ² / ndf 37.19 / 36
p0 −2605 ± 1866
100
80
60
40
20
0
−20
−40
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 164.3
Std Dev 145.6
3
2
1
0
−1
−2

pull1D
Entries 37
Mean 0.007643
Std Dev 1.002
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_usl_rms vs run
χ2 / ndf 2017 / 36
p0 1096 ± 1.32
2000
1800
1600
1400
1200
1000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_usl_correction_mean vs run
χ² / ndf 29.46 / 36
p0 −111 ± 2192
40000
20000
0
−20000
−40000
−60000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 242.2
Std Dev 225.7
pull1D
Entries 37
Mean −0.01227
Std Dev 0.8922

asym_usl_correction_rms vs run
χ² / ndf 5287 / 36
p0 1284 ± 1.55
1600
1500
1400
1300
1200
1100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_usl_mean vs run
×10^3
χ² / ndf 35.95 / 36
p0 −2355 ± 2876
120
100
80
60
40
20
0
−20
−40
−60
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 181.8
Std Dev 164.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 37
Mean 0.01835
Std Dev 0.9855
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_usl_rms vs run
χ² / ndf 1109 / 36
p0 1690 ± 2.034
2000
1900
1800
1700
1600
1500
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_usr_mean vs run
χ² / ndf 31.89 / 36
p0 −3244 ± 2062
40000
20000
0
−20000
−40000
−60000
−80000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −621.6
Std Dev 641.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean 0.002251
Std Dev 0.9284
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_usr_rms vs run

asym_usr_correction_mean vs run
×10^3
χ² / ndf 41.97 / 36
p0 558 ± 5013
150
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −88.46
Std Dev 104.2
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean −0.01108
Std Dev 1.065
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_usr_correction_rms vs run
χ2 / ndf 1.744e+05 / 36
p0 2549 ± 3.545
5500
5000
4500
4000
3500
3000
2500
2000
1500
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_usr_mean vs run
×10^3
χ² / ndf 38.51 / 36
p0 −3009 ± 7578
150
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 245
Std Dev 227
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 37
Mean −0.006682
Std Dev 1.02
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_usr_rms vs run
χ2 / ndf 1.38e+04 / 36
p0 4412 ± 5.359
5500
5000
4500
4000
3500
3000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_at1_avg_mean vs run
χ² / ndf 37.14 / 36
p0 3040 ± 3227
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 89.73
Std Dev 62.88
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.02395
Std Dev 1.002
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_at1_avg_rms vs run

asym_at1_avg_correction_mean vs run
χ² / ndf 32.72 / 36
p0 −118.4 ± 1138
30000
20000
10000
0
−10000
−20000
−30000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 605
Std Dev 585.3
2
1
0
−1
−2
pull1D
Entries 37
Mean −0.0009728
Std Dev 0.9404
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_at1_avg_correction_rms vs run
χ² / ndf 7.804e+04 / 36
p0 630.1 ± 0.8044
1000
900
800
700
600
500
400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_at1_avg_mean vs run
χ² / ndf 40.57 / 36
p0 2682 ± 3556
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 148.7
Std Dev 121.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.01157
Std Dev 1.047
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_at1_avg_rms vs run
χ² / ndf 1224 / 36
p0 2089 ± 2.515
2350
2300
2250
2200
2150
2100
2050
2000
1950
1900
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_at1_dd_mean vs run
×10^3
χ² / ndf 41.37 / 36
p0 −1262 ± 3150
100
80
60
40
20
0
−20
−40
−60
−80
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 54.91
Std Dev 32.25
3
2
1
0
−1
−2

pull1D
Entries 37
Mean 0.02002
Std Dev 1.057
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_at1_dd_rms vs run
χ² / ndf 2592 / 36
p0 1849 ± 2.227
2300
2200
2100
2000
1900
1800
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_at1_dd_correction_mean vs run
χ² / ndf 26.16 / 36
p0 231.9 ± 1324
20000
10000
0
−10000
−20000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 327.8
Std Dev 310.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean 0.008987
Std Dev 0.8407
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_at1_dd_correction_rms vs run
χ2 / ndf 3976 / 36
p0 776.5 ± 0.9365
900
800
700
600
500
400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_at1_dd_mean vs run
χ² / ndf 38.73 / 36
p0 −1632 ± 3391
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 2.128
Std Dev 11.62
pull1D
Entries 37
Mean 0.02032
Std Dev 1.023

asym_at1_dd_rms vs run
χ2 / ndf 1474 / 36
p0 1992 ± 2.398
2400
2300
2200
2100
2000
1900
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_at2_avg_mean vs run
×10^3
χ² / ndf 30.19 / 36
p0 −1256 ± 3326
400
300
200
100
0
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 160.9
Std Dev 148
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 37
Mean 0.008327
Std Dev 0.9032
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_at2_avg_rms vs run

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 40.07 / 36
p0 −44.21 ± 2.082e+04
600
400
200
0
−200
−400
−600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 786.2
Std Dev 768.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean 0.0006808
Std Dev 1.041
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_at2_avg_correction_rms vs run

asym_at2_avg_mean vs run
×10^3
χ² / ndf 37.82 / 36
p0 694.3 ± 2.269e+04
600
400
200
0
−200
−400
−600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 487.8
Std Dev 465.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

pull1D
Entries 37
Mean −0.0005693
Std Dev 1.011
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_at2_avg_rms vs run
χ2 / ndf 1.088e+04 / 36
p0 1.324e+04 ± 16.05
16000
15000
14000
13000
12000
11000
10000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_at2_dd_mean vs run
×10^3
χ² / ndf 45.75 / 36
p0 1568 ± 3133
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 140.2
Std Dev 123.6
2
1
0
−1
−2

pull1D
Entries 37
Mean 0.01657
Std Dev 1.112
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_at2_dd_rms vs run
χ2 / ndf 2.329e+04 / 36
p0 1811 ± 2.215
4000
3500
3000
2500
2000
1500
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_at2_dd_correction_mean vs run
×10^3
χ^2 / ndf 33.51 / 36
p0 3831 ± 8368
200
100
0
−100
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 208.2
Std Dev 191.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean 0.0156
Std Dev 0.9515
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_at2_dd_correction_rms vs run
χ2 / ndf 7923 / 36
p0 4892 ± 5.917
7500
7000
6500
6000
5500
5000
4500
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 32.74 / 36
p0 −3165 ± 6201
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 1.663e+04
Std Dev 1.661e+04
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

pull1D
Entries 37
Mean −0.0001832
Std Dev 0.9407
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_at2_dd_rms vs run
χ2 / ndf 2874 / 36
p0 3639 ± 4.385
4200
4000
3800
3600
3400
3200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_atl_avg_mean vs run
×10^3
χ² / ndf 41.45 / 36
p0 1094 ± 2904
250
200
150
100
50
0
−50
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 136.1
Std Dev 128.3
2
1
0
−1
−2

pull1D
Entries 37
Mean 0.009485
Std Dev 1.058
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_atl_avg_rms vs run
χ2 / ndf 3073 / 36
p0 1704 ± 2.053
5500
5000
4500
4000
3500
3000
2500
2000
1500
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 39.85 / 36
p0 −256.6 ± 9380
300
200
100
0
−100
−200
−300
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 99.5
Std Dev 78.72
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 37
Mean 0.002629
Std Dev 1.038
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 1.441e+04 / 36
p0 5458 ± 6.633
10000
9000
8000
7000
6000
5000
4000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 39.14 / 36
p0 1464 ± 9901
300
200
100
0
−100
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 45.83
Std Dev 38.25
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

pull1D
Entries 37
Mean 0.008745
Std Dev 1.029
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 1.158e+04 / 36
p0 5773 ± 7.001
7000
6500
6000
5500
5000
4500
4000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_atl_dd_mean vs run
×10^3
χ² / ndf 51.91 / 36
p0 133 ± 2843
100
50
0
−50
−100
−150
−200
−250
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 209.8
Std Dev 191
2
1
0
−1
−2

pull1D
Entries 37
Mean −0.01427
Std Dev 1.184
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_atl_dd_rms vs run
χ2 / ndf 2960 / 36
p0 1668 ± 2.01
6000
5000
4000
3000
2000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_atl_dd_correction_mean vs run
×10^3
χ² / ndf 39.37 / 36
p0 354.4 ± 8844
300
200
100
0
−100
−200
−300
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −4.253
Std Dev 13.8
2
1
0
−1
−2
pull1D
Entries 37
Mean −0.002819
Std Dev 1.032
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_atl_dd_correction_rms vs run
χ2 / ndf 1.041e+04 / 36
p0 5161 ± 6.254
11000
10000
9000
8000
7000
6000
5000
4000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_atl_dd_mean vs run
×10^3
χ² / ndf 40.92 / 36
p0 −2274 ± 9160
200
100
0
−100
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −92.46
Std Dev 110.5
3
2
1
0
−1
−2

pull1D
Entries 37
Mean 0.009803
Std Dev 1.052
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_atl_dd_rms vs run
χ² / ndf 7290 / 36
p0 5358 ± 6.477
6500
6000
5500
5000
4500
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 31.69 / 36
p0 1534 ± 3546
250
200
150
100
50
0
−50
−100
−150
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 65.4
Std Dev 38.87
2
1
0
−1
−2

pull1D
Entries 37
Mean −0.01649
Std Dev 0.9253
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_atr_avg_rms vs run
χ2 / ndf 2.851e+04 / 36
p0 2042 ± 2.507
5000
4500
4000
3500
3000
2500
2000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 40.08 / 36
p0 627.7 ± 1.115e+04
400
300
200
100
0
−100
−200
−300
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −117.3
Std Dev 134.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean −0.004724
Std Dev 1.041
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_atr_avg_correction_rms vs run
χ2 / ndf 1.244e+05 / 36
p0 5936 ± 7.882
11000
10000
9000
8000
7000
6000
5000
4000
3000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_atr_avg_mean vs run
×10^3
χ² / ndf 36.33 / 36
p0 714.3 ± 1.488e+04
300
200
100
0
−100
−200
−300
−400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 335.6
Std Dev 315.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

pull1D
Entries 37
Mean −0.002999
Std Dev 0.9909
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_atr_avg_rms vs run
χ2 / ndf 1.14e+04 / 36
p0 8676 ± 10.52
10000
9000
8000
7000
6000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 34.1 / 36
p0 4241 ± 3453
100
50
0
−50
−100
−150
−200
−250
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 31.42
Std Dev 9.849
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean −0.0341
Std Dev 0.9595
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 1.166e+04 / 36
p0 2013 ± 2.442
4000
3500
3000
2500
2000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 39.35 / 36
p0 −104.2 ± 1.164e+04
300
200
100
0
−100
−200
−300
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 477.7
Std Dev 460.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

pull1D
Entries 37
Mean −0.002181
Std Dev 1.031
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_atr_dd_correction_rms vs run
χ² / ndf 5.097e+04 / 36
p0 6588 ± 8.231
11000
10000
9000
8000
7000
6000
5000
4000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_atr_dd_mean vs run
×10^3
χ² / ndf 35.92 / 36
p0 3568 ± 1.327e+04
300
200
100
0
−100
−200
−300
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −135.2
Std Dev 151.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 37
Mean −0.005243
Std Dev 0.9853
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_atr_dd_rms vs run
χ² / ndf 6687 / 36
p0 7765 ± 9.382
9000
8500
8000
7500
7000
6500
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ^2 / ndf 33.75 / 36
p0 1497 ± 2358
×10^3
250
200
150
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 8.015
Std Dev 35.57
2
1
0
−1
−2

pull1D
Entries 37
Mean −0.01806
Std Dev 0.9548
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ2 / ndf 2.048e+04 / 36
p0 1366 ± 1.667
4000
3500
3000
2500
2000
1500
1000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_atl_avg_atr_avg_avg_correction_mean vs run
×10^3
χ² / ndf 40.16 / 36
p0 130.8 ± 1.061e+04
300
200
100
0
−100
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −390.1
Std Dev 407.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean −0.001166
Std Dev 1.042
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ2 / ndf 5.73e+04 / 36
p0 5975 ± 7.503
10000
9000
8000
7000
6000
5000
4000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 37.72 / 36
p0 1063 ± 1.213e+04
300
200
100
0
−100
−200
−300
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −230.9
Std Dev 254.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

pull1D
Entries 37
Mean 0.00195
Std Dev 1.01
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 1.296e+04 / 36
p0 7067 ± 8.578
8500
8000
7500
7000
6500
6000
5500
5000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 38.88 / 36
p0 247.5 ± 2270
80000
60000
40000
20000
0
−20000
−40000
−60000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 117.1
Std Dev 99.04
2
1
0
−1
−2
pull1D
Entries 37
Mean 0.01972
Std Dev 1.025
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ2 / ndf 1.838e+04 / 36
p0 1317 ± 1.605
2400
2200
2000
1800
1600
1400
1200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 46.55 / 36
p0 23.17 ± 1539
60000
40000
20000
0
−20000
−40000
−60000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 113.6
Std Dev 97.44
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.0142
Std Dev 1.122
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ2 / ndf 2.479e+05 / 36
p0 724.9 ± 1.088
2000
1800
1600
1400
1200
1000
800
600
400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 30.39 / 36
p0 542.4 ± 3472
80000
60000
40000
20000
0
−20000
−40000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 184.3
Std Dev 166.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 37
Mean 0.01505
Std Dev 0.9062
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_atl_avg_atr_avg_dd_rms vs run
χ2 / ndf 2075 / 36
p0 2039 ± 2.455
2300
2200
2100
2000
1900
1800
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 32.86 / 36
p0 2515 ± 2288
50
0
−50
−100
−150
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 68.14
Std Dev 48.17
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

pull1D
Entries 37
Mean −0.03389
Std Dev 0.9417
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 7681 / 36
p0 1338 ± 1.618
5000
4500
4000
3500
3000
2500
2000
1500
1000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_atl_dd_atr_dd_avg_correction_mean vs run
×10^3
χ² / ndf 39.97 / 36
p0 168.1± 1.016e+04
pull
Entries 37
Mean 245.1
Std Dev 227.2

pull1D
Entries 37
Mean −0.002525
Std Dev 1.039

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ2 / ndf 2.875e+04 / 36
p0 5846 ± 7.181
11000
10000
9000
8000
7000
6000
5000
4000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 37.73 / 36
p0 650.2 ± 1.08e+04
300
200
100
0
−100
−200
−300
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 59.45
Std Dev 62.62
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean 0.0008156
Std Dev 1.01
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 8170 / 36
p0 6311 ± 7.634
7500
7000
6500
6000
5500
5000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 49.61 / 36
p0 −1778 ± 2201
100
80
60
40
20
0
−20
−40
−60
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −132.6
Std Dev 148.7
2
1
0
−1
−2

pull1D
Entries 37
Mean 0.008518
Std Dev 1.158
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_atl_dd_atr_dd_dd_rms vs run

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 36.92 / 36
p0 294.5 ± 2479
60000
40000
20000
0
−20000
−40000
−60000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 233.8
Std Dev 216.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean 0.01166
Std Dev 0.9989
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 6.515e+04 / 36
p0 1388 ± 1.753
2000
1800
1600
1400
1200
1000
800
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 37.94 / 36
p0 −2529 ± 3615
80
60
40
20
0
−20
−40
−60
−80
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −220.6
Std Dev 237.3
2
1
0
−1
−2
−3

pull1D
Entries 37
Mean 0.01187
Std Dev 1.013
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_atl_dd_atr_dd_dd_rms vs run
χ2 / ndf 1002 / 36
p0 2124 ± 2.556
2300
2250
2200
2150
2100
2050
2000
1950
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_atl1_mean vs run
×10^3
χ² / ndf 50.19 / 36
p0 1375 ± 4120
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −204.4
Std Dev 232

pull1D
Entries 37
Mean 0.004145
Std Dev 1.165

dit_asym_atl1_rms vs run
χ² / ndf 1839 / 36
p0 2419 ± 2.913
3000
2900
2800
2700
2600
2500
2400
2300
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_atl1_correction_mean vs run
χ² / ndf 36.15 / 36
p0 86.76 ± 1088
20000
10000
0
−10000
−20000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 250.1
Std Dev 233.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean 0.01077
Std Dev 0.9884
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_atl1_correction_rms vs run
χ² / ndf 7275 / 36
p0 636.6 ± 0.7696
750
700
650
600
550
500
450
400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_atl1_mean vs run
×10^3
χ² / ndf 53.01 / 36
p0 1204 ± 4322
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −357.1
Std Dev 380.3

pull1D
Entries 37
Mean 0.004059
Std Dev 1.197

asym_atl1_rms vs run
χ2 / ndf 1347 / 36
p0 2539 ± 3.056
3000
2900
2800
2700
2600
2500
2400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_atl2_mean vs run
×10^3
χ² / ndf 43.38 / 36
p0 964.9 ± 4002
500
400
300
200
100
0
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 260.8
Std Dev 245.6
2
1
0
−1
−2

pull1D
Entries 37
Mean 0.01096
Std Dev 1.083
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_atl2_rms vs run
χ2 / ndf 3108 / 36
p0 2348 ± 2.83
12000
10000
8000
6000
4000
2000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 39.66 / 36
p0 −612 ± 1.82e+04
600
400
200
0
−200
−400
−600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 47.66
Std Dev 17.75
2
1
0
−1
−2

pull1D
Entries 37
Mean 0.002716
Std Dev 1.035
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_atl2_correction_rms vs run

asym_atl2_mean vs run
×10^3
χ² / ndf 39.54 / 36
p0 4177 ± 1.854e+04
400
200
0
−200
−400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −258.7
Std Dev 274.3
2
1
0
−1
−2

pull1D
Entries 37
Mean −0.002452
Std Dev 1.034
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_atl2_rms vs run
χ² / ndf 1.09e+04 / 36
p0 1.082e+04 ± 13.11
13000
12000
11000
10000
9000
8000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 31.31 / 36
p0 4452 ± 4864
80
60
40
20
0
−20
−40
−60
−80
−100
−120
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 69.94
Std Dev 44.12
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 37
Mean −0.02968
Std Dev 0.9195
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_atr1_rms vs run
χ² / ndf 4411 / 36
p0 2851 ± 3.439
3800
3600
3400
3200
3000
2800
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_atr1_correction_mean vs run
χ² / ndf 27.73 / 36
p0 −401.4 ± 2414
60000
40000
20000
0
−20000
−40000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 835.9
Std Dev 818.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.002184
Std Dev 0.8658
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_atr1_correction_rms vs run
χ2 / ndf 3944 / 36
p0 1416 ± 1.707
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_atr1_mean vs run
×10^3
χ² / ndf 31.31 / 36
p0 4383 ± 5447
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 53.65
Std Dev 16.03
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

pull1D
Entries 37
Mean −0.02128
Std Dev 0.9196
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_atr1_rms vs run
χ² / ndf 1065 / 36
p0 3200 ± 3.851
3600
3500
3400
3300
3200
3100
3000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_atr2_mean vs run
×10^3
χ² / ndf 32.9 / 36
p0 −2554 ± 4970
400
300
200
100
0
−100
−200
−300
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −10.88
Std Dev 29.56
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

pull1D
Entries 37
Mean 0.006075
Std Dev 0.9429
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_atr2_rms vs run
χ2 / ndf 3.336e+04 / 36
p0 2851 ± 3.514
7000
6000
5000
4000
3000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 39.71 / 36
p0 757.8 ± 2.293e+04
600
400
200
0
−200
−400
−600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −584.8
Std Dev 602
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean −0.001355
Std Dev 1.036
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_atr2_correction_rms vs run
χ2 / ndf 8.406e+04 / 36
p0 1.264e+04 ± 16.21
20000
18000
16000
14000
12000
10000
8000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_atr2_mean vs run
×10^3
χ² / ndf 36.45 / 36
p0 −2715 ± 2.765e+04
600
400
200
0
−200
−400
−600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −2333
Std Dev 2351
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 37
Mean 0.0003797
Std Dev 0.9925
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_atr2_rms vs run
χ2 / ndf 9683 / 36
p0 1.615e+04 ± 19.55
20000
19000
18000
17000
16000
15000
14000
13000
12000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_sam1_mean vs run
χ² / ndf 36.65 / 36
p0 77.85 ± 145.7
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 5875
Std Dev 5856
2
1
0
−1
−2
pull1D
Entries 37
Mean 0.0003937
Std Dev 0.9953
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam1_rms vs run
χ2 / ndf 3062 / 36
p0 85.47 ± 0.103
180
160
140
120
100
80
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam1_correction_mean vs run
χ² / ndf 32.12 / 36
p0 810.6 ± 1011
20000
10000
0
−10000
−20000
−30000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 35.04
Std Dev 21.21
1
0
−1
−2
−3
pull1D
Entries 37
Mean −0.01783
Std Dev 0.9315
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam1_correction_rms vs run
χ2 / ndf 1.37e+04 / 36
p0 588.6 ± 0.715
1600
1400
1200
1000
800
600
400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam1_mean vs run
χ² / ndf 33.02 / 36
p0 −698.7 ± 1023
30000
20000
10000
0
−10000
−20000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 66.98
Std Dev 35.87
3
2
1
0
−1
−2

pull1D
Entries 37
Mean 0.0121
Std Dev 0.9446
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam1_rms vs run
χ2 / ndf 1.009e+04 / 36
p0 597.3 ± 0.7235
1600
1400
1200
1000
800
600
400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_sam2_mean vs run
χ² / ndf 20.88 / 36
p0 845.3 ± 783.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 168.9
Std Dev 155.9
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 37
Mean 0.006095
Std Dev 0.7513
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam2_rms vs run
χ² / ndf 2.093e+04 / 36
p0 453.6 ± 0.554
900
800
700
600
500
400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 33.31 / 36
p0 2143 ± 1.036e+04
pull
Entries 37
Mean 132.3
Std Dev 114.7

pull1D
Entries 37
Mean −0.01546
Std Dev 0.9487

asym_sam2_correction_rms vs run
χ² / ndf 5066 / 36
p0 6069 ± 7.325
7000
6500
6000
5500
5000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam2_mean vs run
×10^3
χ² / ndf 33.5 / 36
p0 −925.8 ± 9987
pull
Entries 37
Mean 163.7
Std Dev 146.2

pull1D
Entries 37
Mean 0.01275
Std Dev 0.9514

asym_sam2_rms vs run
χ² / ndf 1.186e+04 / 36
p0 5822 ± 7.062
7500
7000
6500
6000
5500
5000
4500
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_sam3_mean vs run
χ² / ndf 25.97 / 36
p0 19.66 ± 793.1
20000
10000
0
−10000
−20000
−30000
−40000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 10.1
Std Dev 42.91
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean −0.00964
Std Dev 0.8377
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam3_rms vs run
χ2 / ndf 2.894e+04 / 36
p0 456.5 ± 0.5608
1000
900
800
700
600
500
400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 36.9 / 36
p0 −119.7 ± 5639
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 217.1
Std Dev 200.1

pull1D
Entries 37
Mean −0.01124
Std Dev 0.9986

asym_sam3_correction_rms vs run
χ² / ndf 8517 / 36
p0 3295 ± 3.987
4000
3800
3600
3400
3200
3000
2800
2600
2400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam3_mean vs run
×10^3
χ² / ndf 35.93 / 36
p0 337.5 ± 5039
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 1488
Std Dev 1471
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 37
Mean 0.001525
Std Dev 0.9855
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam3_rms vs run
χ2 / ndf 4.599e+04 / 36
p0 2863 ± 3.563
4000
3500
3000
2500
2000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_sam4_mean vs run
χ² / ndf 23.1 / 36
p0 83.72 ± 796
20000
10000
0
−10000
−20000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 50.08
Std Dev 10.02
3
2
1
0
−1
−2

pull1D
Entries 37
Mean −0.01397
Std Dev 0.79
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam4_rms vs run
χ2 / ndf 1.719e+04 / 36
p0 462.2 ± 0.5629
900
800
700
600
500
400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam4_correction_mean vs run
×10^3
χ^2 / ndf 39.66 / 36
p0 −3136 ± 9096
200
150
100
50
0
−50
−100
−150
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 848.1
Std Dev 831.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

pull1D
Entries 37
Mean −0.002916
Std Dev 1.035
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam4_correction_rms vs run
χ² / ndf 7636 / 36
p0 5319 ± 6.432
7000
6500
6000
5500
5000
4500
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam4_mean vs run
×10^3
χ^2 / ndf 39.28 / 36
p0 2988 ± 8775
pull
Entries 37
Mean 1458
Std Dev 1442

pull1D
Entries 37
Mean 0.001628
Std Dev 1.03

asym_sam4_rms vs run
χ2 / ndf 1.905e+04 / 36
p0 5088 ± 6.205
7000
6500
6000
5500
5000
4500
4000
3500
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_sam5_mean vs run
χ² / ndf 39.01 / 36
p0 −424 ± 257.5
8000
6000
4000
2000
0
−2000
−4000
−6000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −628.7
Std Dev 648.3
3
2
1
0
−1
−2

pull1D
Entries 37
Mean 0.002665
Std Dev 1.027
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam5_rms vs run
χ² / ndf 1425 / 36
p0 151.2 ± 0.1821
200
190
180
170
160
150
140
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam5_correction_mean vs run
χ² / ndf 39.75 / 36
p0 −2053 ± 1578
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −29.04
Std Dev 38.35
3
2
1
0
−1
−2
pull1D
Entries 37
Mean 0.01992
Std Dev 1.036
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam5_correction_rms vs run

asym_sam5_mean vs run
χ² / ndf 35.88 / 36
p0 1531 ± 1550
40000
20000
0
−20000
−40000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −29.11
Std Dev 33.18
pull1D
Entries 37
Mean −0.0135
Std Dev 0.9846

asym_sam5_rms vs run
χ2 / ndf 2.729e+04 / 36
p0 893.5 ± 1.096
3000
2500
2000
1500
1000
500
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_sam6_mean vs run
χ² / ndf 31.7 / 36
p0 −80.54 ± 412
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 33.42
Std Dev 45.86
3
2
1
0
−1
pull1D
Entries 37
Mean −0.008991
Std Dev 0.9256
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam6_rms vs run
χ2 / ndf 1.727e+04 / 36
p0 239.2 ± 0.2913
450
400
350
300
250
200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam6_correction_mean vs run
χ2 / ndf 30.87 / 36
p0 −1324 ± 3395
80000
60000
40000
20000
0
−20000
−40000
−60000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 94.54
Std Dev 75.31
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean 0.01691
Std Dev 0.9133
8
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 4403 / 36
p0 1990 ± 2.401
3000
2800
2600
2400
2200
2000
1800
1600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam6_mean vs run
χ² / ndf 31.43 / 36
p0 1150 ± 3481
60000
40000
20000
0
−20000
−40000
−60000
−80000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 101.8
Std Dev 81.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

pull1D
Entries 37
Mean −0.01563
Std Dev 0.9215
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam6_rms vs run
χ2 / ndf 6116 / 36
p0 2038 ± 2.462
3000
2800
2600
2400
2200
2000
1800
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_sam7_mean vs run
χ² / ndf 23.56 / 36
p0 213 ± 222.4
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −48.41
Std Dev 56.22
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.01633
Std Dev 0.7979
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam7_rms vs run
χ2 / ndf 5971 / 36
p0 130.2 ± 0.1573
280
260
240
220
200
180
160
140
120
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam7_correction_mean vs run
χ² / ndf 35.75 / 36
p0 −61.73 ± 2509
60000
40000
20000
0
−20000
−40000
−60000
−80000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 213.5
Std Dev 196.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.01091
Std Dev 0.9829
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 3.129e+04 / 36
p0 1442 ± 1.774
1800
1600
1400
1200
1000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam7_mean vs run
χ² / ndf 35.98 / 36
p0 357.9 ± 2416
60000
40000
20000
0
−20000
−40000
−60000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 364.3
Std Dev 347.8
pull1D
Entries 37
Mean 0.006463
Std Dev 0.9861

asym_sam7_rms vs run
χ2 / ndf 4.39e+04 / 36
p0 1375 ± 1.708
1800
1600
1400
1200
1000
800
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_sam8_mean vs run
χ² / ndf 31.17 / 36
p0 146.2 ± 162.3
5000
0
−5000
−10000
−15000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 60.72
Std Dev 30.24
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.02514
Std Dev 0.9176
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 6613 / 36
p0 95 ± 0.1148
240
220
200
180
160
140
120
100
80
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam8_correction_mean vs run
χ² / ndf 32.59 / 36
p0 113.3 ± 1762
pull
Entries 37
Mean 279.1
Std Dev 261.1
pull1D
Entries 37
Mean −0.007327
Std Dev 0.9385

asym_sam8_correction_rms vs run
χ2 / ndf 3.537e+04 / 36
p0 1009 ± 1.246
1500
1400
1300
1200
1100
1000
900
800
700
600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam8_mean vs run
χ² / ndf 34.29 / 36
p0 −131.2 ± 1812
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 181.1
Std Dev 163.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 37
Mean 0.01072
Std Dev 0.9626
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam8_rms vs run
χ2 / ndf 2.311e+04 / 36
p0 1047 ± 1.281
1500
1400
1300
1200
1100
1000
900
800
700
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_sam_15_avg_mean vs run
χ² / ndf 25.57 / 36
p0 −150.1 ± 123.3
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
−6000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 46.41
Std Dev 24.8
3
2.5
2
1.5
1
0.5
0
−0.5
−1

pull1D
Entries 37
Mean −0.01545
Std Dev 0.8311
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam_15_avg_rms vs run
χ2 / ndf 5255 / 36
p0 72.26 ± 0.08722
150
140
130
120
110
100
90
80
70
60
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_15_avg_correction_mean vs run
χ² / ndf 48.11 / 36
p0 −614.7 ± 425.9
15000
10000
5000
0
−5000
−10000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −115.7
Std Dev 130.6
pull1D
Entries 37
Mean 0.0157
Std Dev 1.14

asym_sam_15_avg_correction_rms vs run
χ2 / ndf 1.254e+04 / 36
p0 248.1 ± 0.3011
800
700
600
500
400
300
200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_15_avg_mean vs run
χ² / ndf 40.48 / 36
p0 451.7 ± 434.7
10000
5000
0
−5000
−10000
−15000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −83.46
Std Dev 97.59
3
2
1
0
−1
−2

pull1D
Entries 37
Mean −0.01847
Std Dev 1.046
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_15_avg_rms vs run
χ^2 / ndf 9795 / 36
p0 253.8 ± 0.3074
800
700
600
500
400
300
200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_sam_26_avg_mean vs run
χ² / ndf 23.98 / 36
p0 400.3 ± 489.5
10000
5000
0
−5000
−10000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −265.8
Std Dev 271.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.002396
Std Dev 0.8051
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam_26_avg_rms vs run
χ2 / ndf 2.817e+04 / 36
p0 281.9 ± 0.3462
650
600
550
500
450
400
350
300
250
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_26_avg_correction_mean vs run
χ2 / ndf 34.97 / 36
p0 386.1 ± 3507
60000
40000
20000
0
−20000
−40000
−60000
−80000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 157.1
Std Dev 140
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.01414
Std Dev 0.9721
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 1.017e+04 / 36
p0 2047 ± 2.48
2400
2200
2000
1800
1600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_26_avg_mean vs run
χ² / ndf 34.69 / 36
p0 272.5 ± 3139
80000
60000
40000
20000
0
−20000
−40000
−60000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 332.1
Std Dev 315.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean 0.00665
Std Dev 0.9683
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 4.901e+04 / 36
p0 1779 ± 2.22
2600
2400
2200
2000
1800
1600
1400
1200
1000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_sam_37_avg_mean vs run
χ2 / ndf 25.22 / 36
p0 102.1 ± 489.8
10000
5000
0
−5000
−10000
−15000
−20000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 5.937
Std Dev 34.65
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.01544
Std Dev 0.8254
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 2.396e+04 / 36
p0 283 ± 0.3463
600
550
500
450
400
350
300
250
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_37_avg_correction_mean vs run
×10^3
χ² / ndf 36.54 / 36
p0 −89.52 ± 4090
80
60
40
20
0
−20
−40
−60
−80
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 214.3
Std Dev 197.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 37
Mean −0.01124
Std Dev 0.9937
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 1.317e+04 / 36
p0 2382 ± 2.892
2800
2600
2400
2200
2000
1800
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_37_avg_mean vs run
×10^3
χ² / ndf 35.96 / 36
p0 343.8 ± 3724
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 713.2
Std Dev 696.7

pull1D
Entries 37
Mean 0.003225
Std Dev 0.9858

asym_sam_37_avg_rms vs run
χ² / ndf 4.537e+04 / 36
p0 2117 ± 2.633
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_sam_48_avg_mean vs run
χ2 / ndf 22.83 / 36
p0 78.82 ± 446.2
10000
5000
0
−5000
−10000
−15000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 58.87
Std Dev 28.46
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean −0.01991
Std Dev 0.7852
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam_48_avg_rms vs run

asym_sam_48_avg_correction_mean vs run
×10^3
χ² / ndf 38.79 / 36
p0 −1321 ± 5384
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 430.2
Std Dev 413.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 37
Mean −0.00585
Std Dev 1.024
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_48_avg_correction_rms vs run
χ² / ndf 9318 / 36
p0 3145 ± 3.807
4000
3800
3600
3400
3200
3000
2800
2600
2400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_48_avg_mean vs run
×10^3
χ^2 / ndf 38.83 / 36
p0 1256 ± 5234
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 481.2
Std Dev 464.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 37
Mean 0.005015
Std Dev 1.024
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_48_avg_rms vs run
χ² / ndf 1.851e+04 / 36
p0 3036 ± 3.701
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_sam_15_dd_mean vs run
χ² / ndf 47.19 / 36
p0 266.9 ± 168.5
4000
2000
0
−2000
−4000
−6000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −105.4
Std Dev 124.6
3
2
1
0
−1
−2
−3
pull1D
Entries 37
Mean −0.01792
Std Dev 1.129
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 474.5 / 36
p0 99.02 ± 0.1191
114
112
110
108
106
104
102
100
98
96
94
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_15_dd_correction_mean vs run
χ² / ndf 36.23 / 36
p0 1425 ± 1256
30000
20000
10000
0
−10000
−20000
−30000
−40000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −6.171
Std Dev 13.03
2
1
0
−1
−2
−3
pull1D
Entries 37
Mean −0.01951
Std Dev 0.9894
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_15_dd_correction_rms vs run
χ² / ndf 2.168e+04 / 36
p0 727.1 ± 0.8884
2500
2000
1500
1000
500
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_15_dd_mean vs run
χ² / ndf 34.21 / 36
p0 −1090 ± 1246
40000
30000
20000
10000
0
−10000
−20000
−30000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 4.802
Std Dev 33.02
3
2
1
0
−1
−2

pull1D
Entries 37
Mean 0.01188
Std Dev 0.9615
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_15_dd_rms vs run
χ² / ndf 2.138e+04 / 36
p0 721.1 ± 0.8809
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_sam_26_dd_mean vs run
χ² / ndf 24.29 / 36
p0 496.8 ± 384
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 150.1
Std Dev 130.7
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 37
Mean 0.009252
Std Dev 0.8101
9
8
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 5466 / 36
p0 224.9 ± 0.2716
300
280
260
240
220
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 32.54 / 36
p0 1719 ± 6861
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 123.2
Std Dev 105.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 37
Mean −0.01572
Std Dev 0.9377
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_26_dd_correction_rms vs run
χ² / ndf 3932 / 36
p0 4023 ± 4.852
5000
4800
4600
4400
4200
4000
3800
3600
3400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 32.92 / 36
p0 −1079 ± 6759
150
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 140.5
Std Dev 122.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean 0.0141
Std Dev 0.9432
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_26_dd_rms vs run
χ² / ndf 5355 / 36
p0 3959 ± 4.779
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_sam_37_dd_mean vs run
χ² / ndf 27.63 / 36
p0 −92.03 ± 315.9
10000
5000
0
−5000
−10000
−15000
−20000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 80.29
Std Dev 30.52
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 37
Mean −0.002972
Std Dev 0.8642
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 3.451e+04 / 36
p0 181 ± 0.2234
550
500
450
400
350
300
250
200
150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_37_dd_correction_mean vs run
χ² / ndf 37.88 / 36
p0 −64.09 ± 1521
30000
20000
10000
0
−10000
−20000
−30000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 309.8
Std Dev 292.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.007938
Std Dev 1.012
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_37_dd_correction_rms vs run
χ2 / ndf 8087 / 36
p0 889.4 ± 1.076
1000
900
800
700
600
500
400
300
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_37_dd_mean vs run
χ² / ndf 35.81 / 36
p0 0.3922 ± 1322
30000
20000
10000
0
−10000
−20000
−30000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −584.1
Std Dev 600.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.00371
Std Dev 0.9838
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_37_dd_rms vs run
χ2 / ndf 4.74e+04 / 36
p0 750 ± 0.9344
1000
900
800
700
600
500
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_sam_48_dd_mean vs run
χ² / ndf 25.4 / 36
p0 −20.47 ± 358.8
10000
5000
0
−5000
−10000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 38.3
Std Dev 28.96
3
2
1
0
−1
−2
pull1D
Entries 37
Mean −0.006502
Std Dev 0.8285
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam_48_dd_rms vs run
χ2 / ndf 2.621e+04 / 36
p0 206.9 ± 0.2537
450
400
350
300
250
200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_48_dd_correction_mean vs run
×10^3
χ² / ndf 40.73 / 36
p0 −1844 ± 3737
100
80
60
40
20
0
−20
−40
−60
−80
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −1637
Std Dev 1653
2
1
0
−1
−2

pull1D
Entries 37
Mean 0.001448
Std Dev 1.049
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_48_dd_correction_rms vs run

asym_sam_48_dd_mean vs run
×10^3
χ^2 / ndf 39.72 / 36
p0 1752 ± 3568
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −742.3
Std Dev 758.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 37
Mean −0.00308
Std Dev 1.036
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_48_dd_rms vs run
χ2 / ndf 2.069e+04 / 36
p0 2066 ± 2.523
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 21.48 / 36
p0 37.79 ± 174.2
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 71.2
Std Dev 60.56
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 37
Mean 0.01233
Std Dev 0.7618
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 2.806e+04 / 36
p0 100.3 ± 0.1232
280
260
240
220
200
180
160
140
120
100
80
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 30.78 / 36
p0 762.8 ± 1196
20000
10000
0
−10000
−20000
−30000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 73.09
Std Dev 51.41
pull1D
Entries 37
Mean −0.01642
Std Dev 0.9119

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 6347 / 36
p0 700.1 ± 0.8458
1300
1200
1100
1000
900
800
700
600
500
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_13_57_dd_mean vs run
χ^2 / ndf 31 / 36
p0 −562 ± 1090
30000
20000
10000
0
−10000
−20000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 111.9
Std Dev 91.89
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 37
Mean 0.01228
Std Dev 0.9152
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_13_57_dd_rms vs run
χ2 / ndf 2.378e+04 / 36
p0 629.9 ± 0.7708
1300
1200
1100
1000
900
800
700
600
500
400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 24.83 / 36
p0 −127.3 ± 222.3
10000
8000
6000
4000
2000
0
−2000
−4000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −25.51
Std Dev 24.43
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 37
Mean 0.008399
Std Dev 0.8191
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam_15_37_dd_rms vs run
χ2 / ndf 3.313e+04 / 36
p0 127.6 ± 0.1572
300
250
200
150
100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 34.95 / 36
p0 −33.22 ± 1961
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 199.9
Std Dev 182.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean 0.01141
Std Dev 0.9718
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 1.685e+04 / 36
p0 1139 ± 1.387
1400
1300
1200
1100
1000
900
800
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_15_37_dd_mean vs run
χ² / ndf 33.99 / 36
p0 63.28 ± 1777
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 268.3
Std Dev 251.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.008087
Std Dev 0.9584
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_15_37_dd_rms vs run
χ2 / ndf 5.393e+04 / 36
p0 1003 ± 1.257
1400
1300
1200
1100
1000
900
800
700
600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 21.4 / 36
p0 218.6 ± 258.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 133.7
Std Dev 119.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean 0.005564
Std Dev 0.7604
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam_24_68_dd_rms vs run
χ2 / ndf 2.963e+04 / 36
p0 148.6 ± 0.1826
350
300
250
200
150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_24_68_dd_correction_mean vs run
×10^3
χ^2 / ndf 35.86 / 36
p0 343.9 ± 5124
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 157.3
Std Dev 140.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 37
Mean −0.01498
Std Dev 0.9844
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 3564 / 36
p0 3005 ± 3.623
3400
3200
3000
2800
2600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_24_68_dd_mean vs run
×10^3
χ² / ndf 35.97 / 36
p0 −87.61 ± 5011
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 173.5
Std Dev 156.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 37
Mean 0.01361
Std Dev 0.986
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_24_68_dd_rms vs run
χ² / ndf 7345 / 36
p0 2931 ± 3.543
3400
3200
3000
2800
2600
2400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 21.14 / 36
p0 138.9 ± 181.7
6000
4000
2000
0
−2000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 76.04
Std Dev 57.81
1.5
1
0.5
0
−0.5
−1

pull1D
Entries 37
Mean 0.03561
Std Dev 0.7551
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 1.048e+04 / 36
p0 106.1 ± 0.1285
170
160
150
140
130
120
110
100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 43.38 / 36
p0 922.6 ± 1057
30000
20000
10000
0
−10000
−20000
−30000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −277.6
Std Dev 293.7
pull1D
Entries 37
Mean −0.009051
Std Dev 1.083

asym_sam_26_48_dd_correction_rms vs run
χ2 / ndf 7435 / 36
p0 618.4 ± 0.7477
1100
1000
900
800
700
600
500
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_26_48_dd_mean vs run
χ² / ndf 43.13 / 36
p0 −591.2 ± 1095
30000
20000
10000
0
−10000
−20000
−30000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −1.449e+04
Std Dev 1.451e+04
pull1D
Entries 37
Mean 0.0001538
Std Dev 1.08

asym_sam_26_48_dd_rms vs run
χ² / ndf 4498 / 36
p0 641.6 ± 0.7741
1100
1000
900
800
700
600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 24.43 / 36
p0 −58.09 ± 269
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 70.8
Std Dev 43.48
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 37
Mean −0.01726
Std Dev 0.8124
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam_1548_avg_rms vs run
χ2 / ndf 3924 / 36
p0 157.7 ± 0.1902
220
210
200
190
180
170
160
150
140
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_1548_avg_correction_mean vs run
χ² / ndf 39.77 / 36
p0 −1032 ± 2798
60000
40000
20000
0
−20000
−40000
−60000
−80000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 1253
Std Dev 1236
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 37
Mean −0.001999
Std Dev 1.037
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_1548_avg_correction_rms vs run
χ² / ndf 9147 / 36
p0 1634 ± 1.978
2200
2000
1800
1600
1400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_1548_avg_mean vs run
χ² / ndf 39.7 / 36
p0 918.8 ± 2735
60000
40000
20000
0
−20000
−40000
−60000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 2181
Std Dev 2164
pull1D
Entries 37
Mean 0.001098
Std Dev 1.036

asym_sam_1548_avg_rms vs run
χ2 / ndf 1.608e+04 / 36
p0 1589 ± 1.934
2200
2000
1800
1600
1400
1200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_sam_3748_avg_mean vs run
χ2 / ndf 23.64 / 36
p0 99.79 ± 448.6
10000
5000
0
−5000
−10000
−15000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 30.83
Std Dev 29.68
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.01875
Std Dev 0.7991
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam_3748_avg_rms vs run
χ2 / ndf 1.865e+04 / 36
p0 260.2 ± 0.3172
500
450
400
350
300
250
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_3748_avg_correction_mean vs run
×10^3
χ² / ndf 37.86 / 36
p0 −687.9 ± 4727
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 296.2
Std Dev 279.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 37
Mean −0.008399
Std Dev 1.012
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_3748_avg_correction_rms vs run
χ² / ndf 1.088e+04 / 36
p0 2758 ± 3.342
3400
3200
3000
2800
2600
2400
2200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_3748_avg_mean vs run
×10^3
χ² / ndf 37.65 / 36
p0 779.3 ± 4482
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 524.3
Std Dev 507.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 37
Mean 0.004546
Std Dev 1.009
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_3748_avg_rms vs run
χ2 / ndf 2.788e+04 / 36
p0 2582 ± 3.169
3400
3200
3000
2800
2600
2400
2200
2000
1800
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 24.05 / 36
p0 124.7 ± 275.8
6000
4000
2000
0
−2000
−4000
−6000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −71.17
Std Dev 73.43
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 37
Mean −0.006077
Std Dev 0.8062
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam_1526_avg_rms vs run
χ2 / ndf 1.933e+04 / 36
p0 159.9 ± 0.195
300
280
260
240
220
200
180
160
140
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_1526_avg_correction_mean vs run
χ² / ndf 37.11 / 36
p0 −95.96 ± 1818
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 224.1
Std Dev 207.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.01065
Std Dev 1.001
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 9763 / 36
p0 1061 ± 1.285
1300
1200
1100
1000
900
800
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_1526_avg_mean vs run
χ² / ndf 36.81 / 36
p0 374.3 ± 1664
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 1763
Std Dev 1746
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean 0.001322
Std Dev 0.9975
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_1526_avg_rms vs run
χ2 / ndf 3.936e+04 / 36
p0 950 ± 1.176
1300
1200
1100
1000
900
800
700
600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_sam_3726_avg_mean vs run
χ2 / ndf 24.93 / 36
p0 248.1 ± 477.2
10000
5000
0
−5000
−10000
−15000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −25.67
Std Dev 8.89
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.009711
Std Dev 0.8208
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 2.714e+04 / 36
p0 275.1 ± 0.3375
600
550
500
450
400
350
300
250
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_3726_avg_correction_mean vs run
χ² / ndf 35.82 / 36
p0 159.1 ± 3795
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 182.1
Std Dev 165.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.01281
Std Dev 0.9839
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 1.174e+04 / 36
p0 2212 ± 2.683
2600
2400
2200
2000
1800
1600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_3726_avg_mean vs run
χ² / ndf 35.39 / 36
p0 303.2 ± 3427
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 467.1
Std Dev 450.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean 0.004846
Std Dev 0.978
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_3726_avg_rms vs run
χ^2 / ndf 4.712e+04 / 36
p0 1945 ± 2.423
2800
2600
2400
2200
2000
1800
1600
1400
1200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 21.37 / 36
p0 −139.4 ± 183.3
8000
6000
4000
2000
0
−2000
−4000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 49.07
Std Dev 6.589
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 37
Mean 0.01936
Std Dev 0.7598
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 2.188e+04 / 36
p0 106.1 ± 0.1296
240
220
200
180
160
140
120
100
80
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_15_48_dd_correction_mean vs run
χ² / ndf 37.58 / 36
p0 314.6 ± 2600
60000
40000
20000
0
−20000
−40000
−60000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 261.2
Std Dev 244.3
pull1D
Entries 37
Mean 0.009547
Std Dev 1.008

asym_sam_15_48_dd_correction_rms vs run
χ² / ndf 9679 / 36
p0 1518 ± 1.839
1800
1700
1600
1500
1400
1300
1200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_15_48_dd_mean vs run
χ² / ndf 37.68 / 36
p0 −358.3 ± 2512
60000
40000
20000
0
−20000
−40000
−60000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 267.4
Std Dev 250.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.008958
Std Dev 1.009
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_15_48_dd_rms vs run
χ2 / ndf 2.158e+04 / 36
p0 1454 ± 1.776
1800
1700
1600
1500
1400
1300
1200
1100
1000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 26.38 / 36
p0 −14.08 ± 138.6
3000
2000
1000
0
−1000
−2000
−3000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 121.4
Std Dev 105.7
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 37
Mean 0.01626
Std Dev 0.8443
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam_37_48_dd_rms vs run
χ2 / ndf 1.002e+04 / 36
p0 80.88 ± 0.09798
130
120
110
100
90
80
70
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_37_48_dd_correction_mean vs run
χ² / ndf 43.64 / 36
p0 629.2 ± 710.8
pull
Entries 37
Mean −348.9
Std Dev 365
pull1D
Entries 37
Mean −0.007039
Std Dev 1.086

asym_sam_37_48_dd_correction_rms vs run
χ² / ndf 4953 / 36
p0 416.5 ± 0.5026
750
700
650
600
550
500
450
400
350
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_37_48_dd_mean vs run
χ² / ndf 44.61 / 36
p0 −537.9 ± 755.5
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 750.7
Std Dev 734.4
2
1
0
−1
−2
pull1D
Entries 37
Mean −0.002911
Std Dev 1.098
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_37_48_dd_rms vs run

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 23.41 / 36
p0 −274.4 ± 226.8
4000
2000
0
−2000
−4000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 312.6
Std Dev 304.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 37
Mean −0.00273
Std Dev 0.7955
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam_15_26_dd_rms vs run
χ2 / ndf 3.558e+04 / 36
p0 129.9 ± 0.1604
300
250
200
150
100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_15_26_dd_correction_mean vs run
χ² / ndf 32.81 / 36
p0 −434.1± 1716
40000
30000
20000
10000
0
−10000
−20000
−30000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 123
Std Dev 105.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean 0.01583
Std Dev 0.9415
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 1.087e+04 / 36
p0 1001 ± 1.214
1300
1200
1100
1000
900
800
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_15_26_dd_mean vs run
χ2 / ndf 32.46 / 36
p0 85.17 ± 1505
30000
20000
10000
0
−10000
−20000
−30000
−40000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 162.2
Std Dev 145.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.01237
Std Dev 0.9365
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_15_26_dd_rms vs run
χ2 / ndf 5.861e+04 / 36
p0 846.5 ± 1.064
1300
1200
1100
1000
900
800
700
600
500
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 21.64 / 36
p0 −155.7 ± 106
2000
0
−2000
−4000
−6000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 75.39
Std Dev 52.57
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 37
Mean −0.02151
Std Dev 0.7644
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam_37_26_dd_rms vs run
χ2 / ndf 1753 / 36
p0 62.28 ± 0.07499
120
110
100
90
80
70
60
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_37_26_dd_correction_mean vs run
χ² / ndf 42.67 / 36
p0 −294.2 ± 342.6
10000
5000
0
−5000
−10000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −179.7
Std Dev 195.9
pull1D
Entries 37
Mean 0.0143
Std Dev 1.074

asym_sam_37_26_dd_correction_rms vs run
χ² / ndf 2.297e+04 / 36
p0 198.1 ± 0.2423
350
300
250
200
150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_37_26_dd_mean vs run
χ² / ndf 39.24 / 36
p0 71.88 ± 337.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −169.6
Std Dev 184.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.01281
Std Dev 1.03
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_37_26_dd_rms vs run

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 25.37 / 36
p0 −32.82 ± 279.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 16.85
Std Dev 32.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 37
Mean −0.0186
Std Dev 0.8279
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam_1357_avg_rms vs run
χ2 / ndf 1.439e+04 / 36
p0 162.4 ± 0.1974
280
260
240
220
200
180
160
140
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 38.71 / 36
p0 −589 ± 2108
40000
20000
0
−20000
−40000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 620.6
Std Dev 603.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 37
Mean −0.004032
Std Dev 1.023
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 1.491e+04 / 36
p0 1226 ± 1.49
1500
1400
1300
1200
1100
1000
900
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_1357_avg_mean vs run
χ² / ndf 37.58 / 36
p0 436.5 ± 1969
40000
20000
0
−20000
−40000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −1411
Std Dev 1427
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.001667
Std Dev 1.008
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_1357_avg_rms vs run
χ2 / ndf 3.746e+04 / 36
p0 1126 ± 1.392
1600
1500
1400
1300
1200
1100
1000
900
800
700
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 23.73 / 36
p0 252.7 ± 433
10000
5000
0
−5000
−10000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 14.06
Std Dev 37.75
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.01224
Std Dev 0.8007
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam_2468_avg_rms vs run
χ2 / ndf 2.237e+04 / 36
p0 250.5 ± 0.3062
500
450
400
350
300
250
200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_2468_avg_correction_mean vs run
×10^3
χ² / ndf 37.39 / 36
p0 −411.2 ± 4417
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 245.1
Std Dev 228.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 37
Mean −0.009994
Std Dev 1.005
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 9760 / 36
p0 2579 ± 3.123
3000
2800
2600
2400
2200
2000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_2468_avg_mean vs run
×10^3
χ^2 / ndf 37.36 / 36
p0 728.2 ± 4175
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 397.4
Std Dev 380.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 37
Mean 0.005975
Std Dev 1.005
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_2468_avg_rms vs run
χ2 / ndf 2.799e+04 / 36
p0 2405 ± 2.952
3200
3000
2800
2600
2400
2200
2000
1800
1600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_sam_1357_2468_dd_mean vs run
χ^2 / ndf 23.49 / 36
p0 −145 ± 91.85
1500
1000
500
0
−500
−1000
−1500
−2000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −303
Std Dev 266.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean 0.0003675
Std Dev 0.7969
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

dit_asym_sam_1357_2468_dd_rms vs run
χ2 / ndf 2.621e+04 / 36
p0 52.98 ± 0.06495
120
110
100
90
80
70
60
50
40
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 36.24 / 36
p0 −70.3 ± 1157
30000
20000
10000
0
−10000
−20000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 166.8
Std Dev 149.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean 0.01414
Std Dev 0.9896
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 6452 / 36
p0 677.1 ± 0.818
800
750
700
650
600
550
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 37.06 / 36
p0 −163.9 ± 1104
20000
10000
0
−10000
−20000
−30000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 202.7
Std Dev 185.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.01163
Std Dev 1.001
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.112e+04 / 36
p0 639.3 ± 0.7807
800
750
700
650
600
550
500
450
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 24.25 / 36
p0 109.2 ± 352.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 15.74
Std Dev 35.32
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.01487
Std Dev 0.8095
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 1.969e+04 / 36
p0 204.4 ± 0.2494
400
350
300
250
200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 37.81 / 36
p0 −493.9 ± 3261
60000
40000
20000
0
−20000
−40000
−60000
−80000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 300.8
Std Dev 284
pull1D
Entries 37
Mean −0.008217
Std Dev 1.011

asym_sam_12345678_avg_correction_rms vs run
χ2 / ndf 1.124e+04 / 36
p0 1902 ± 2.306
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

asym_sam_12345678_avg_mean vs run
χ² / ndf 37.44 / 36
p0 576.2 ± 3072
80000
60000
40000
20000
0
−20000
−40000
−60000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 647.3
Std Dev 630.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean 0.003664
Std Dev 1.006
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

asym_sam_12345678_avg_rms vs run
χ2 / ndf 3.082e+04 / 36
p0 1766 ± 2.172
2400
2200
2000
1800
1600
1400
1200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

dit_usl_4aX_slope vs run
χ^2 / ndf 4.359e−27 / 36
p0 −119.2 ± 0.861
−114
−116
−118
−120
−122
−124
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 18.5
Std Dev 10.68
×10^-15
10
8
6
4
2
0

pull1D
Entries 37
Mean 1.085e−14
Std Dev 2.593e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_usl_4eX_slope vs run
χ² / ndf 8.896e−29 / 36
p0 29.41 ± 2.26
45
40
35
30
25
20
15
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
−1.6
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean −1.551e−15
Std Dev 3.743e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_usl_11X12X_slope vs run

dit_usl_4aY_slope vs run
χ² / ndf 2.744e−28 / 36
p0 4.404 ± 0.1609
5.5
5
4.5
4
3.5
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
2.5
2
1.5
1
0.5
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean 2.723e−15
Std Dev 1.123e−22
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 1.726e−27 / 36
p0 11.88 ± 0.2566
13.5
13
12.5
12
11.5
11
10.5
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−1
−2
−3
−4
−5
−6
−7
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean −6.829e−15
Std Dev7.487e−23
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 7.89e−29 / 36
p0 −317.5 ± 6.4
−280
−290
−300
−310
−320
−330
−340
−350
−360
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean −1.46e−15
Std Dev 3.242e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_usr_4eX_slope vs run
χ^2 / ndf 2.874e−27 / 36
p0 316.7 ± 4.241
340
330
320
310
300
290
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10^-15
9
8
7
6
5
4
3
2
1
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean 8.814e−15
Std Dev 3.176e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_usr_11X12X_slope vs run
χ^2 / ndf 0 / 36
p0 −52.5 ± 0.2661
−51
−51.5
−52
−52.5
−53
−53.5
−54
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

pull1D
Entries 37
Mean 0
Std Dev 0
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_usr_4aY_slope vs run
χ² / ndf 2.373e−30 / 36
p0 1.423 ± 0.8648
6
4
2
0
−2
−4
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean −2.533e−16
Std Dev4.679e−24
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_usr_4eY_slope vs run
χ^2 / ndf 5.811e−28 / 36
p0 11.08 ± 0.3684
13
12
11
10
9
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10^-15
4
3.5
3
2.5
2
1.5
1
0.5
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean 3.963e−15
Std Dev 5.294e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_atl1_4aX_slope vs run
χ² / ndf 3.088e−29 / 36
p0 41.35 ± 2.557
60
55
50
45
40
35
30
25
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean 9.136e−16
Std Dev 1.872e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_atl1_4eX_slope vs run
χ^2 / ndf 3.019e−29 / 36
p0 −10.31 ± 2.586
5
0
−5
−10
−15
−20
−25
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10^-15
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean 9.033e−16
Std Dev1.323e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_atl1_11X12X_slope vs run
χ² / ndf 5.27e−30 / 36
p0 4.187 ± 0.3869
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean 3.774e−16
Std Dev1.552e−23

dit_atl1_4aY_slope vs run
χ² / ndf 3.434e−28 / 36
p0 9.816 ± 0.3834
12
11
10
9
8
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
−3
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean −3.047e−15
Std Dev1.059e−22
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 4.701e−29 / 36
p0 −27.04 ± 0.5182
−24
−25
−26
−27
−28
−29
−30
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10^−15
1
0.8
0.6
0.4
0.2
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean 1.127e−15
Std Dev 3.743e−23
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 4.468e−27 / 36
p0 −1098 ± 6.804
−1050
−1060
−1070
−1080
−1090
−1100
−1110
−1120
−1130
−1140
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−2
−4
−6
−8
−10
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean −1.099e−14
Std Dev 3.962e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_atl2_4eX_slope vs run
χ² / ndf 1.18e−27 / 36
p0 841.8 ± 16.55
950
900
850
800
750
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−1
−2
−3
−4
−5
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean −5.647e−15
Std Dev1.674e−22
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 2.023e−26 / 36
p0 −255.5 ± 0.3996
−253
−254
−255
−256
−257
−258
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 18.5
Std Dev 10.68
×10^−15
24
22
20
18
16
14
12
10
8
6
4
2
0

pull1D
Entries 37
Mean 2.338e−14
Std Dev 5.989e−22
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 3.731e−28 / 36
p0 15.44 ± 0.4598
18
17
16
15
14
13
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
3
2.5
2
1.5
1
0.5
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean 3.175e−15
Std Dev 1.297e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_atl2_4eY_slope vs run
χ² / ndf 9.66e−27 / 36
p0 96.87 ± 0.8675
102
100
98
96
94
92
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
16
14
12
10
8
6
4
2
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean 1.616e−14
Std Dev4.735e−22
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 2.303e−28 / 36
p0 −156.6 ± 7.492
−120
−140
−160
−180
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean −2.495e−15
Std Dev 9.169e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_atr1_4eX_slope vs run
χ^2 / ndf 1.023e−29 / 36
p0 63.7 ± 6.666
110
100
90
80
70
60
50
40
30
20
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 18.5
Std Dev 10.68
×10^−15
0
−0.1
−0.2
−0.3
−0.4
−0.5

pull1D
Entries 37
Mean −5.257e−16
Std Dev2.476e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_atr1_11X12X_slope vs run

dit_atr1_4aY_slope vs run
χ2 / ndf 1.355e−30 / 36
p0 5.552 ± 2.289
20
15
10
5
0
−5
−10
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10−15
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean −1.914e−16
Std Dev7.019e−24
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_atr1_4eY_slope vs run
χ² / ndf 4.24e−31 / 36
p0 −10.58 ± 2.728
5
0
−5
−10
−15
−20
−25
−30
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean 1.07e−16
Std Dev 2.865e−24
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_atr2_4aX_slope vs run
χ^2 / ndf 0 / 36
p0 −1244 ± 6.986
−1200
−1220
−1240
−1260
−1280
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

pull1D
Entries 37
Mean 0
Std Dev 0
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_atr2_4eX_slope vs run
χ2 / ndf 0 / 36
p0 1133 ± 13.65
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

pull1D
Entries 37
Mean 0
Std Dev 0
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 / 36
p0 −251.8 ± 4.158
−230
−240
−250
−260
−270
−280
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

pull1D
Entries 37
Mean 0
Std Dev 0
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_atr2_4aY_slope vs run
χ² / ndf 1.012e−29 / 36
p0 −65.87 ± 13.4
20
0
−20
−40
−60
−80
−100
−120
−140
−160
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean −5.23e−16
Std Dev 1.323e−23
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 0 / 36
p0 161.9 ± 10.84
240
220
200
180
160
140
120
100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

pull1D
Entries 37
Mean 0
Std Dev 0
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 3.709e−30 / 36
p0 0.5114 ± 0.2306
2
1.5
1
0.5
0
−0.5
−1
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean −3.166e−16
Std Dev 1.48e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam1_4eX_slope vs run
χ² / ndf 1.378e−27 / 36
p0 −12.14 ± 0.2872
−10.5
−11
−11.5
−12
−12.5
−13
−13.5
−14
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean 6.102e−15
Std Dev 2.9e−22

dit_sam1_11X12X_slope vs run
χ² / ndf 5.704e−30 / 36
p0 0.4475 ± 0.02324
0.6
0.55
0.5
0.45
0.4
0.35
0.3
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean 3.926e−16
Std Dev 1.046e−23
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 2.678e−26 / 36
p0 −56.82 ± 0.3907
−54
−55
−56
−57
−58
−59
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
pull
Entries 37
Mean 18.5
Std Dev 10.68
25
20
15
10
5
0

pull1D
Entries 37
Mean 2.691e−14
Std Dev 8.984e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam1_4eY_slope vs run
χ^2 / ndf 4.53e−28 / 36
p0 9.645 ± 0.2504
11
10.5
10
9.5
9
8.5
8
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10^-15
3.5
3
2.5
2
1.5
1
0.5
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean 3.499e−15
Std Dev 3.743e−23
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 6.213e−29 / 36
p0 13.39 ± 1.803
25
20
15
10
5
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10^−15
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean −1.296e−15
Std Dev 5.615e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam2_4eX_slope vs run
χ^2 / ndf 1.092e−25 / 36
p0 −224.4 ± 1.032
−218
−220
−222
−224
−226
−228
−230
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10^−15
0
−10
−20
−30
−40
−50
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean −5.433e−14
Std Dev 2.32e−21
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 1.988e−30 / 36
p0 0.1427 ± 0.1772
1
0.5
0
−0.5
−1
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 18.5
Std Dev 10.68
×10^−15
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

pull1D
Entries 37
Mean 2.318e−16
Std Dev 4.679e−24
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 3.234e−30 / 36
p0 9.174 ± 0.9878
16
14
12
10
8
6
4
2
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean −2.956e−16
Std Dev 0
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam2_4eY_slope vs run
χ^2 / ndf 8.01e−27 / 36
p0 −211.3 ± 1.27
−204
−206
−208
−210
−212
−214
−216
−218
−220
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10^-15
14
12
10
8
6
4
2
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean 1.471e−14
Std Dev 2.995e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam3_4aX_slope vs run
χ^2 / ndf 1.212e−27 / 36
p0 −55.87 ± 2.041
−45
−50
−55
−60
−65
−70
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean 5.723e−15
Std Dev 1.297e−22

dit_sam3_4eX_slope vs run
χ² / ndf 6.615e−28 / 36
p0 −76.03 ± 1.105
−68
−70
−72
−74
−76
−78
−80
−82
−84
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
−4
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean −4.228e−15
Std Dev 1.184e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam3_11X12X_slope vs run
χ^2 / ndf 3.53e−29 / 36
p0 −1.363 ± 0.2242
0
−0.5
−1
−1.5
−2
−2.5
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10^−15
0
−0.2
−0.4
−0.6
−0.8
−1
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean −9.768e−16
Std Dev 3.502e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam3_4aY_slope vs run
χ^2 / ndf 4.118e−28 / 36
p0 −6.755 ± 0.1313
−5.8
−6
−6.2
−6.4
−6.6
−6.8
−7
−7.2
−7.4
−7.6
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 18.5
Std Dev 10.68
×10^−15
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5

pull1D
Entries 37
Mean −3.336e−15
Std Dev1.059e−22
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 2.04e−26 / 36
p0 31.42 ± 0.1741
32.5
32
31.5
31
30.5
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−5
−10
−15
−20
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean −2.348e−14
Std Dev 9.932e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam4_4aX_slope vs run
χ2 / ndf 1.699e−28 / 36
p0 14.49 ± 2.044
25
20
15
10
5
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10−15
0
−0.5
−1
−1.5
−2
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean −2.143e−15
Std Dev9.544e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam4_4eX_slope vs run
χ² / ndf 1.852e−27 / 36
p0 −200.7 ± 1.321
−192
−194
−196
−198
−200
−202
−204
−206
−208
−210
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean 7.074e−15
Std Dev 1.497e−22

dit_sam4_11X12X_slope vs run
χ^2 / ndf 1.893e−30 / 36
p0 0.6757 ± 0.2421
2
1.5
1
0.5
0
−0.5
−1
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10^−15
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean −2.262e−16
Std Dev 6.617e−24
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam4_4aY_slope vs run
χ² / ndf 6.105e−28 / 36
p0 −21.5 ± 0.4313
−19
−20
−21
−22
−23
−24
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
−4
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean −4.062e−15
Std Dev1.059e−22
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 0 / 36
p0 266.5 ± 0.9283
272
270
268
266
264
262
260
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

pull1D
Entries 37
Mean 0
Std Dev 0
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 4.287e−29 / 36
p0 5.022 ± 0.2713
7
6.5
6
5.5
5
4.5
4
3.5
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 18.5
Std Dev 10.68
×10^-15
1
0.8
0.6
0.4
0.2
0

pull1D
Entries 37
Mean 1.076e−15
Std Dev 2.292e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam5_4eX_slope vs run
χ² / ndf 2.455e−30 / 36
p0 1.383 ± 0.2834
3
2.5
2
1.5
1
0.5
0
−0.5
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 18.5
Std Dev 10.68
×10⁻¹⁵
0.25
0.2
0.15
0.1
0.05
0
pull1D
Entries 37
Mean 2.576e−16
Std Dev 7.399e−24
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 2.607e−29 / 36
p0 0.3398 ± 0.03261
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean 8.394e−16
Std Dev 3.97e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam5_4aY_slope vs run
χ² / ndf 8.424e−27 / 36
p0 31.38 ± 0.3871
34
33
32
31
30
29
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
14
12
10
8
6
4
2
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean 1.509e−14
Std Dev 4.235e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam5_4eY_slope vs run
χ^2 / ndf 1.173e−27 / 36
p0 124.1 ± 0.415
127
126
125
124
123
122
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 18.5
Std Dev 10.68
×10^-15
0
−1
−2
−3
−4
−5

pull1D
Entries 37
Mean −5.63e−15
Std Dev7.487e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam6_4aX_slope vs run
χ^2 / ndf 5.724e−29 / 36
p0 37.71 ± 0.9391
44
42
40
38
36
34
32
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 18.5
Std Dev 10.68
×10^-15
1.2
1
0.8
0.6
0.4
0.2
0

pull1D
Entries 37
Mean 1.244e−15
Std Dev 3.502e−23
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 5.87e−27 / 36
p0 35.9 ± 0.4637
39
38
37
36
35
34
33
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 18.5
Std Dev 10.68
×10^-15
12
10
8
6
4
2
0

pull1D
Entries 37
Mean 1.26e−14
Std Dev 2.118e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam6_11X12X_slope vs run

dit_sam6_4aY_slope vs run
χ² / ndf 9.567e−29 / 36
p0 14.15 ± 0.7264
18
16
14
12
10
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean 1.608e−15
Std Dev 5.294e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam6_4eY_slope vs run
χ2 / ndf 1.817e−28 / 36
p0 108.2 ± 1.054
114
112
110
108
106
104
102
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10−15
0
−0.5
−1
−1.5
−2
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean −2.216e−15
Std Dev 8.37e−23
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 6.102e−26 / 36
p0 81.48 ± 0.5753
85
84
83
82
81
80
79
78
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−5
−10
−15
−20
−25
−30
−35
−40
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean −4.061e−14
Std Dev1.467e−21
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 3.718e−27 / 36
p0 −121.4 ± 0.4661
−119
−120
−121
−122
−123
−124
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−2
−4
−6
−8
−10
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean −1.002e−14
Std Dev 3.512e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam7_11X12X_slope vs run

dit_sam7_4aY_slope vs run
χ² / ndf 2.657e−26 / 36
p0 7.091 ± 0.04359
7.4
7.3
7.2
7.1
7
6.9
6.8
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
pull
Entries 37
Mean 18.5
Std Dev 10.68
25
20
15
10
5
0

pull1D
Entries 37
Mean 2.68e−14
Std Dev 5.989e−22
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 7.948e−26 / 36
p0 −11.39 ± 0.0315
−11.2
−11.25
−11.3
−11.35
−11.4
−11.45
−11.5
−11.55
−11.6
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−10
−20
−30
−40
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean −4.635e−14
Std Dev 1.694e−21
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 4.036e−28 / 36
p0 58.02 ± 0.3537
60
59
58
57
56
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
−3
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean −3.303e−15
Std Dev1.123e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

dit_sam8_4eX_slope vs run
χ² / ndf 1.519e−26 / 36
p0 −83.36 ± 0.4612
−80
−81
−82
−83
−84
−85
−86
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 18.5
Std Dev 10.68
×10⁻¹⁵
20
18
16
14
12
10
8
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4
2
0

pull1D
Entries 37
Mean 2.026e−14
Std Dev 7.923e−22
35
30
25
20
15
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5
0
−8
−6
−4
−2
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2
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dit_sam8_11X12X_slope vs run
χ² / ndf 0 / 36
p0 0.4941± 0.03412
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

pull1D
Entries 37
Mean 0
Std Dev 0
35
30
25
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0
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dit_sam8_4aY_slope vs run
χ² / ndf 2.604e−26 / 36
p0 −51.75 ± 0.1321
−50.8
−51
−51.2
−51.4
−51.6
−51.8
−52
−52.2
−52.4
−52.6
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
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7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
pull
Entries 37
Mean 18.5
Std Dev 10.68
25
20
15
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pull1D
Entries 37
Mean 2.653e−14
Std Dev 8.47e−22
35
30
25
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15
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−8
−6
−4
−2
0
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dit_sam8_4eY_slope vs run
χ^2 / ndf 9.838e−27 / 36
p0 50.04 ± 0.2149
51.5
51
50.5
50
49.5
49
48.5
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
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7740. 5
7741. 0
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7742. 0
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7743. 0
7759. 0
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7759. 5
×10^-15
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pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean 1.631e−14
Std Dev7.923e−22
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pull
Entries 0
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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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pull
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pull1D
Entries 0
Mean 0
Std Dev 0
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pull
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pull1D
Entries 0
Mean 0
Std Dev 0
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pull
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pull1D
Entries 0
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pull
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pull1D
Entries 0
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pull
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pull1D
Entries 0
Mean 0
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pull
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pull1D
Entries 0
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pull
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pull1D
Entries 0
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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
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pull
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pull1D
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pull
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pull1D
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pull
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pull1D
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pull1D
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pull
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pull1D
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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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pull1D
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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
Entries 0
Mean 0
Std Dev 0
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pull1D
Entries 0
Mean 0
Std Dev 0
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8

dit_segment_slope vs run
χ^2 / ndf 2.503e−28 / 36
p0 1.286 ± 0.02807
1.45
1.4
1.35
1.3
1.25
1.2
1.15
1.1
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10^−15
0
−0.5
−1
−1.5
−2
−2.5
pull
Entries 37
Mean 18.5
Std Dev 10.68

pull1D
Entries 37
Mean −2.601e−15
Std Dev 6.484e−23
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 12.3 / 36
p0 −5.656 ± 0.8493
5
0
−5
−10
−15
−20
−25
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 73.57
Std Dev 50.55
1.5
1
0.5
0
−0.5
−1

pull1D
Entries 37
Mean −0.07573
Std Dev 0.5716
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 4.282 / 36
p0 −80.42 ± 0.9264
pull
Entries 37
Mean 47.6
Std Dev 24.03

pull1D
Entries 37
Mean 0.04056
Std Dev 0.3378

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 4.898 / 36
p0 –4.283 ± 0.8516
10
5
0
–5
–10
–15
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 74.4
Std Dev 53.11
0.5
0
–0.5
–1
–1.5

pull1D
Entries 37
Mean 0.03145
Std Dev 0.3625
22
20
18
16
14
12
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 59.68 / 36
p0 55.23 ± 1.61
90
80
70
60
50
40
30
20
10
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −225.2
Std Dev 247.6
1
0
−1
−2
−3

pull1D
Entries 37
Mean 0.03299
Std Dev 1.27
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 3.069 / 36
p0 0.348 ± 0.0519
pull
Entries 37
Mean −25.45
Std Dev 48.22

pull1D
Entries 37
Mean −0.02584
Std Dev 0.2868

reg_asym_sam2_diff_bpm1X_slope vs run
χ2 / ndf 10.8 / 36
p0 −36.71± 7.847
50
0
−50
−100
−150
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 36.91
Std Dev 13.29
2.5
2
1.5
1
0.5
0
−0.5

pull1D
Entries 37
Mean −0.1512
Std Dev 0.5187
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 0.6965 / 36
p0 −157.6 ± 9.186
0
−50
−100
−150
−200
−250
−300
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 712.5
Std Dev 691.5
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

pull1D
Entries 37
Mean −0.0007151
Std Dev 0.1372
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 21.13 / 36
p0 −171.7 ± 7.716
−50
−100
−150
−200
−250
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 39.04
Std Dev 14.94
1
0
−1
−2
−3

pull1D
Entries 37
Mean 0.2202
Std Dev 0.7229
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam2_diff_bpm4eY_slope vs run
χ2 / ndf 8.029 / 36
p0 88.15 ± 15.68
300
200
100
0
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −50.43
Std Dev 72.53
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

pull1D
Entries 37
Mean 0.04239
Std Dev 0.4639
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 4.981 / 36
p0 0.2266 ± 0.4985
8
6
4
2
0
−2
−4
−6
−8
−10
−12
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −3.441
Std Dev 25.92
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

pull1D
Entries 37
Mean −0.06462
Std Dev 0.3612
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 25.98 / 36
p0 −39.97 ± 4.159
pull
Entries 37
Mean 31.92
Std Dev 8.061

pull1D
Entries 37
Mean −0.2207
Std Dev 0.8084

reg_asym_sam3_diff_bpm4aY_slope vs run
χ^2 / ndf 1.796 / 36
p0 6.096 ± 4.875
pull
Entries 37
Mean 464.1
Std Dev 441.8

pull1D
Entries 37
Mean 0.002526
Std Dev 0.2203

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 58.25 / 36
p0 −75.63 ± 4.065
20
0
−20
−40
−60
−80
−100
−120
−140
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 43.17
Std Dev 19.55
2
1
0
−1
−2
−3
−4
−5

pull1D
Entries 37
Mean 0.3057
Std Dev 1.217
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam3_diff_bpm4eY_slope vs run
χ2 / ndf 1.335 / 36
p0 7.796 ± 7.914
150
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −29.32
Std Dev 49.85
0.4
0.2
0
−0.2
−0.4

pull1D
Entries 37
Mean 0.01713
Std Dev 0.1892
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 14.29 / 36
p0 −0.8278 ± 0.2454
pull
Entries 37
Mean 8.917
Std Dev 11.51
pull1D
Entries 37
Mean −0.1685
Std Dev 0.5983

reg_asym_sam4_diff_bpm1X_slope vs run
χ2 / ndf 11.44 / 36
p0 −50.3 ± 7.088
50
0
−50
−100
−150
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 33.65
Std Dev 9.964
3
2.5
2
1.5
1
0.5
0
−0.5
pull1D
Entries 37
Mean −0.1377
Std Dev 0.5387
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam4_diff_bpm4aY_slope vs run
χ2 / ndf 1.122 / 36
p0 122 ± 8.191
250
200
150
100
50
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 129
Std Dev 117.3
0.2
0
−0.2
−0.4
−0.6
−0.8

pull1D
Entries 37
Mean 0.001315
Std Dev 0.1741
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 21.54 / 36
p0 −146.6 ± 6.98
0
−50
−100
−150
−200
−250
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 39.22
Std Dev 14.91
1
0
−1
−2
−3

pull1D
Entries 37
Mean 0.1978
Std Dev 0.737
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam4_diff_bpm4eY_slope vs run
χ2 / ndf 6.606 / 36
p0 18.62 ± 13.79
200
100
0
−100
−200
−300
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −22.76
Std Dev 44.66
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

pull1D
Entries 37
Mean −0.05858
Std Dev 0.4184
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 5.818 / 36
p0 −2.606 ± 0.4352
pull
Entries 37
Mean 3.309
Std Dev 18.73

pull1D
Entries 37
Mean −0.0788
Std Dev 0.3886

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 5.193 / 36
p0 −6.906 ± 1.346
10
0
−10
−20
−30
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 92.88
Std Dev 65.49
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

pull1D
Entries 37
Mean 0.01592
Std Dev 0.3743
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam5_diff_bpm4aY_slope vs run
χ2 / ndf 6.429 / 36
p0 116.6 ± 1.457
150
140
130
120
110
100
90
80
70
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 76.65
Std Dev 50.97
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

pull1D
Entries 37
Mean −0.02873
Std Dev 0.4159
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 5.911 / 36
p0 9.41 ± 1.346
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 232.5
Std Dev 206.3

pull1D
Entries 37
Mean −0.006604
Std Dev 0.3997

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 147.7 / 36
p0 −18.38 ± 2.441
40
20
0
−20
−40
−60
−80
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −26.05
Std Dev 47.44
4
3
2
1
0
−1

pull1D
Entries 37
Mean −0.292
Std Dev 1.977
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 4.052 / 36
p0 −0.6961± 0.07715
pull
Entries 37
Mean 4.883
Std Dev 16.61

pull1D
Entries 37
Mean −0.05683
Std Dev 0.326

reg_asym_sam6_diff_bpm1X_slope vs run
χ2 / ndf 10.81 / 36
p0 2.018 ± 2.684
80
60
40
20
0
−20
−40
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 34.9
Std Dev 15.93
1
0.5
0
−0.5
−1

pull1D
Entries 37
Mean 0.05617
Std Dev 0.5375
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam6_diff_bpm4aY_slope vs run
χ^2 / ndf 5.361 / 36
p0 109.9 ± 3.061
180
160
140
120
100
80
60
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 77.06
Std Dev 55.27
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean 0.04179
Std Dev 0.3783
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam6_diff_bpm4eX_slope vs run
χ2 / ndf 6.261 / 36
p0 58.86 ± 2.67
100
80
60
40
20
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 90.65
Std Dev 74.52
1
0.5
0
−0.5
−1

pull1D
Entries 37
Mean 0.01637
Std Dev 0.411
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 10.21 / 36
p0 −59.05 ± 5.472
pull
Entries 37
Mean 87.24
Std Dev 61.77

pull1D
Entries 37
Mean 0.03749
Std Dev 0.524

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 2.901 / 36
p0 −0.6376 ± 0.1787
pull
Entries 37
Mean 238.3
Std Dev 219.5

pull1D
Entries 37
Mean −0.005297
Std Dev 0.28

reg_asym_sam7_diff_bpm1X_slope vs run
χ2 / ndf 10.2 / 36
p0 5.413 ± 1.987
30
20
10
0
−10
−20
−30
−40
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 23.08
Std Dev 3.384
2.5
2
1.5
1
0.5
0
−0.5
−1

pull1D
Entries 37
Mean −0.1373
Std Dev 0.5067
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 1.722 / 36
p0 14.44 ± 2.332
pull
Entries 37
Mean −1198
Std Dev 1221

pull1D
Entries 37
Mean −0.001017
Std Dev 0.2157

reg_asym_sam7_diff_bpm4eX_slope vs run
χ^2 / ndf 31.6 / 36
p0 −62.14 ± 1.942
−20
−30
−40
−50
−60
−70
−80
−90
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 47.07
Std Dev 23.56
2
1
0
−1
−2
−3
−4

pull1D
Entries 37
Mean 0.2072
Std Dev 0.9007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 1.501 / 36
p0 −22.94 ± 3.793
60
40
20
0
−20
−40
−60
−80
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −15.94
Std Dev 36.68
0.4
0.2
0
−0.2
−0.4
−0.6

pull1D
Entries 37
Mean 0.03123
Std Dev 0.199
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 4.535 / 36
p0 −0.2127 ± 0.1178
1
0
−1
−2
−3
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 11.27
Std Dev 10.53
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

pull1D
Entries 37
Mean −0.09096
Std Dev 0.3381
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam8_diff_bpm1X_slope vs run
χ2 / ndf 8.492 / 36
p0 1.665 ± 1.473
20
10
0
−10
−20
−30
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 33.37
Std Dev 9.421
2.5
2
1.5
1
0.5
0
−0.5

pull1D
Entries 37
Mean −0.1182
Std Dev 0.4643
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 19.43 / 36
p0 −33.55 ± 1.701
0
−10
−20
−30
−40
−50
−60
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 194.5
Std Dev 171.8
1.5
1
0.5
0
−0.5

pull1D
Entries 37
Mean 0.02842
Std Dev 0.7242
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 19.93 / 36
p0 −40.41 ± 1.45
−10
−20
−30
−40
−50
−60
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 42.83
Std Dev 18.69
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

pull1D
Entries 37
Mean 0.1753
Std Dev 0.7127
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 4.585 / 36
p0 20.06 ± 2.846
80
60
40
20
0
−20
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −26.87
Std Dev 47.68
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

pull1D
Entries 37
Mean 0.05044
Std Dev 0.3484
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 1.46 / 36
p0 −0.2367 ± 0.08962
pull
Entries 37
Mean −289.3
Std Dev 307.7
pull1D
Entries 37
Mean 0.003455
Std Dev 0.1986

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 24.69 / 36
p0 −26.3 ± 2.186
20
0
−20
−40
−60
−80
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 48.68
Std Dev 24.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.09588
Std Dev 0.8113
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_usl_diff_bpm4aY_slope vs run
χ2 / ndf 7.509 / 36
p0 8.152 ± 2.574
50
40
30
20
10
0
−10
−20
−30
−40
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 275.7
Std Dev 258
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

pull1D
Entries 37
Mean −0.003972
Std Dev 0.4505
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 30.62 / 36
p0 −45.18 ± 2.152
20
0
−20
−40
−60
−80
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 47.94
Std Dev 23.53
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean 0.1455
Std Dev 0.898
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 7.531 / 36
p0 6.143 ± 4.516
80
60
40
20
0
−20
−40
−60
−80
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −561.4
Std Dev 581.1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

pull1D
Entries 37
Mean −0.002471
Std Dev 0.4511
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 127.8 / 36
p0 −36.56 ± 0.1456
−32
−34
−36
−38
−40
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −120.2
Std Dev 139.6

pull1D
Entries 37
Mean −0.06734
Std Dev 1.857

reg_asym_usr_diff_bpm1X_slope vs run
χ2 / ndf 9.599 / 36
p0 −31.21 ± 5.889
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 12.49
Std Dev 9.468
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean 0.07392
Std Dev 0.5039
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 3.794 / 36
p0 25.05 ± 6.977
150
100
50
0
−50
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 73.16
Std Dev 50.04
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

pull1D
Entries 37
Mean 0.01574
Std Dev 0.3198
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_usr_diff_bpm4eX_slope vs run
χ2 / ndf 11.87 / 36
p0 113.1 ± 5.773
pull
Entries 37
Mean 25.38
Std Dev 5.922

pull1D
Entries 37
Mean −0.1299
Std Dev 0.5513

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 3.13 / 36
p0 −22.15 ± 11.89
200
150
100
50
0
−50
−100
−150
−200
−250
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 58.08
Std Dev 52.71
0.4
0.2
0
−0.2
−0.4
−0.6

pull1D
Entries 37
Mean −0.001842
Std Dev 0.2908
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 189.8 / 36
p0 −50.49 ± 0.3778
−40
−45
−50
−55
−60
−65
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 6.711
Std Dev 18.02
4
2
0
−2
−4
−6
−8

pull1D
Entries 37
Mean −0.1395
Std Dev 2.261
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_dsl_diff_bpm1X_slope vs run
×10^3
χ^2 / ndf 58.46 / 35
p0 35.03 ± 112.3
800
600
400
200
0
−200
−400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 37.05
Std Dev 17.53
2
1
0
−1
−2
−3

pull1D
Entries 36
Mean −0.1448
Std Dev 1.266
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_dsl_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 36.25 / 35
p0 −24.2 ± 121.6
800
600
400
200
0
−200
−400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 23.21
Std Dev 15.17
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 36
Mean 0.07179
Std Dev 1.001
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 58.99 / 35
p0 −33.4 ± 113
400
200
0
−200
−400
−600
−800
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 37.02
Std Dev 17.68
3
2
1
0
−1
−2

pull1D
Entries 36
Mean 0.1495
Std Dev 1.271
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_dsl_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 35.79 / 35
p0 28.04 ± 203.3
500
0
−500
−1000
−1500
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 15.58
Std Dev 19.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 36
Mean −0.04099
Std Dev 0.9963
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
×10^3
χ² / ndf 44.96 / 36
p0 5.748 ± 6.34
180
160
140
120
100
80
60
40
20
0
−20
−40
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 69.47
Std Dev 57.53
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 37
Mean −0.02015
Std Dev 1.102
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_dsr_diff_bpm1X_slope vs run
×10^3
χ^2 / ndf 32.13 / 36
p0 −91 ± 181.1
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 26.75
Std Dev 5.235

pull1D
Entries 37
Mean 0.1823
Std Dev 0.9139

reg_asym_dsr_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 21.89 / 36
p0 41.41 ± 193.5
150
100
50
0
−50
−100
−150
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 34.17
Std Dev 9.885
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean −0.1037
Std Dev 0.7621
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_dsr_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 34.4 / 36
p0 89.51 ± 182.6
200
100
0
−100
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 26.8
Std Dev 4.659
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean −0.1863
Std Dev 0.9461
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 20.5 / 36
p0 15.14 ± 323.2
300
200
100
0
−100
−200
−300
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 47.62
Std Dev 25.48
1.5
1
0.5
0
−0.5
−1

pull1D
Entries 37
Mean 0.06896
Std Dev 0.7412
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 17.24 / 36
p0 0.4019 ± 10.12
10000
5000
0
−5000
−10000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 28.45
Std Dev 15.9
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 37
Mean 0.0764
Std Dev 0.6783
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 10.18 / 36
p0 −28.72 ± 3.084
40
20
0
−20
−40
−60
−80
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −29.28
Std Dev 52.45
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean 0.03231
Std Dev 0.5234
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.872 / 36
p0 16.25 ± 3.637
80
60
40
20
0
−20
−40
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 38.45
Std Dev 2.746
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

pull1D
Entries 37
Mean 0.02036
Std Dev 0.3623
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ2 / ndf 10.39 / 36
p0 34.07 ± 3.028
80
60
40
20
0
−20
−40
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 5.916
Std Dev 16.41
1.5
1
0.5
0
−0.5
−1

pull1D
Entries 37
Mean −0.06951
Std Dev 0.5254
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 4.269 / 36
p0 −7.262 ± 6.224
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −18.35
Std Dev 39.59
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

pull1D
Entries 37
Mean −0.01287
Std Dev 0.3394
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 265.4 / 36
p0 −43.32 ± 0.1982
pull
Entries 37
Mean −3.102
Std Dev 14.98

pull1D
Entries 37
Mean −0.2491
Std Dev 2.667

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 12.93 / 36
p0 2.538 ± 3.205
60
40
20
0
−20
−40
−60
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 24.44
Std Dev 5.94
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 37
Mean −0.1066
Std Dev 0.5814
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 3.577 / 36
p0 −8.635 ± 3.812
40
20
0
−20
−40
−60
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 112.2
Std Dev 90.92
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 37
Mean −0.0121
Std Dev 0.3107
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.16 / 36
p0 −79.19 ± 3.142
0
−20
−40
−60
−80
−100
−120
−140
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 31.98
Std Dev 5.25
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

pull1D
Entries 37
Mean 0.1763
Std Dev 0.6779
22
20
18
16
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
χ2 / ndf 3.129 / 36
p0 14.71 ± 6.536
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −68.29
Std Dev 85.54
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

pull1D
Entries 37
Mean −0.006546
Std Dev 0.2907
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_us_dd_diff_bpm12X_slope vs run
χ2 / ndf 104.4 / 36
p0 7.26 ± 0.2081
14
12
10
8
6
4
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −65
Std Dev 94.65
6
4
2
0
−2

pull1D
Entries 37
Mean −0.02837
Std Dev 1.68
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_ds_avg_diff_bpm1X_slope vs run
×10^3
χ² / ndf 32.2 / 35
p0 −176.5 ± 188.9
400
300
200
100
0
−100
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 9.635
Std Dev 10.74
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 36
Mean 0.1154
Std Dev 0.9387
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_ds_avg_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 21.78 / 35
p0 61.47 ± 202.1
400
300
200
100
0
−100
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 25.46
Std Dev 10.65
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 36
Mean −0.1239
Std Dev 0.7679
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
χ^2 / ndf 32.88 / 35
p0 155.5 ± 189.2
200
100
0
−100
−200
−300
−400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 7.933
Std Dev 9.207
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 36
Mean −0.1067
Std Dev 0.9497
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_ds_avg_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 19.46 / 35
p0 −8.838 ± 321.7
200
0
−200
−400
−600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 32.97
Std Dev 3.695
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 36
Mean 0.09392
Std Dev 0.7293
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ2 / ndf 27.22 / 36
p0 1.345 ± 9.9
80000
60000
40000
20000
0
−20000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 30.14
Std Dev 17.29
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 37
Mean 0.1088
Std Dev 0.8509
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_ds_dd_diff_bpm1X_slope vs run
×10^3
χ² / ndf 39.09 / 35
p0 −354.3 ± 187.7
400
300
200
100
0
−100
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 36.24
Std Dev 18.74
2
1
0
−1
−2

pull1D
Entries 36
Mean −0.09904
Std Dev 1.037
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_ds_dd_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 26.25 / 35
p0 202.6 ± 200.9
400
300
200
100
0
−100
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 40.36
Std Dev 19.14
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 36
Mean 0.1173
Std Dev 0.8459
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_ds_dd_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 41.17 / 35
p0 355.1 ± 188.1
200
100
0
−100
−200
−300
−400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 32.8
Std Dev 15.07
2
1
0
−1
−2

pull1D
Entries 36
Mean 0.1104
Std Dev 1.064
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_ds_dd_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 23.97 / 35
p0 −375.5 ± 320.1
400
200
0
−200
−400
−600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 47.87
Std Dev 26.88
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 36
Mean −0.07651
Std Dev 0.8124
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 21.85 / 36
p0 −15.81 ± 9.857
80000
60000
40000
20000
0
−20000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 2.824
Std Dev 5.644
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 37
Mean 0.06364
Std Dev 0.7659
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_left_avg_diff_bpm1X_slope vs run
×10^3
χ^2 / ndf 58.84 / 35
p0 2.862 ± 56.17
400
300
200
100
0
−100
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 37.39
Std Dev 17.82
2
1
0
−1
−2
−3

pull1D
Entries 36
Mean −0.1446
Std Dev 1.27
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_left_avg_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 36.39 / 35
p0 −8.533 ± 60.84
400
300
200
100
0
−100
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 23
Std Dev 15.26
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 36
Mean 0.07249
Std Dev 1.003
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 59.31 / 35
p0 −37.03 ± 56.54
200
100
0
−100
−200
−300
−400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 37.56
Std Dev 18.13
3
2
1
0
−1
−2

pull1D
Entries 36
Mean 0.1491
Std Dev 1.275
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
χ^2 / ndf 35.94 / 35
p0 17.95 ± 101.7
400
200
0
−200
−400
−600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 15.2
Std Dev 19.65
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 36
Mean −0.04179
Std Dev 0.9983
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 45.13 / 36
p0 −15.25 ± 3.172
80000
60000
40000
20000
0
−20000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 56.31
Std Dev 44.72
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.02494
Std Dev 1.104
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 58.06 / 35
p0 −32.12 ± 56.19
200
100
0
−100
−200
−300
−400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 36.71
Std Dev 17.24
3
2
1
0
−1
−2

pull1D
Entries 36
Mean 0.145
Std Dev 1.262
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_left_dd_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 36.08 / 35
p0 15.67 ± 60.86
200
100
0
−100
−200
−300
−400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 23.42
Std Dev 15.06
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 36
Mean −0.07107
Std Dev 0.9986
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 58.64 / 35
p0 −3.669 ± 56.55
400
300
200
100
0
−100
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 36.48
Std Dev 17.24
2
1
0
−1
−2
−3

pull1D
Entries 36
Mean −0.15
Std Dev 1.267
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_left_dd_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 35.62 / 35
p0 −10.11 ± 101.7
600
400
200
0
−200
−400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 15.96
Std Dev 19.94
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 36
Mean 0.04021
Std Dev 0.9939
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 44.84 / 36
p0 −21 ± 3.172
20000
0
−20000
−40000
−60000
−80000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 91.03
Std Dev 78.77
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean 0.01531
Std Dev 1.101
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
χ² / ndf 32.33 / 36
p0 −60.78 ± 90.79
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 26.45
Std Dev 5.704
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 37
Mean 0.1819
Std Dev 0.9168
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_right_avg_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 21.91 / 36
p0 34.98 ± 97
80
60
40
20
0
−20
−40
−60
−80
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 33.92
Std Dev 9.506
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean −0.1033
Std Dev 0.7625
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_right_avg_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 34.74 / 36
p0 99.59 ± 91.54
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 26.72
Std Dev 4.932
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean −0.1865
Std Dev 0.9509
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 20.57 / 36
p0 −4.515 ± 162
150
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 47.74
Std Dev 25.58
1.5
1
0.5
0
−0.5
−1

pull1D
Entries 37
Mean 0.06853
Std Dev 0.7424
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 16.62 / 36
p0 −24.79 ± 5.07
4000
2000
0
−2000
−4000
−6000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 32.38
Std Dev 12.95
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean 0.06877
Std Dev 0.6668
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_right_dd_diff_bpm1X_slope vs run
×10^3
χ^2 / ndf 31.87 / 36
p0 30.09 ± 90.82
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 27.03
Std Dev 4.731
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean −0.1827
Std Dev 0.9099
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 21.81 / 36
p0 −6.58 ± 97.04
100
80
60
40
20
0
−20
−40
−60
−80
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 34.4
Std Dev 10.23
1.5
1
0.5
0
−0.5
−1

pull1D
Entries 37
Mean 0.1043
Std Dev 0.7607
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_right_dd_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 33.97 / 36
p0 10.24 ± 91.57
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 26.85
Std Dev 4.404
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 37
Mean 0.1861
Std Dev 0.94
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_right_dd_diff_bpm4eY_slope vs run
×10^3
χ^2 / ndf 20.38 / 36
p0 −19.59 ± 162
150
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 47.47
Std Dev 25.33
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean −0.06943
Std Dev 0.739
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 18.29 / 36
p0 −25.2 ± 5.071
6000
4000
2000
0
−2000
−4000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 25.27
Std Dev 17.29
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean −0.08388
Std Dev 0.6981
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 22.71 / 36
p0 −6.451 ± 0.3626
4
2
0
−2
−4
−6
−8
−10
−12
−14
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 130.9
Std Dev 111.2
4
3
2
1
0
−1

pull1D
Entries 37
Mean −0.03057
Std Dev 0.7829
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ2 / ndf 12.58 / 36
p0 18.31 ± 0.3941
25
20
15
10
5
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 37.78
Std Dev 15.99
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean −0.04405
Std Dev 0.5814
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.65 / 36
p0 2.762 ± 0.3639
10
8
6
4
2
0
−2
−4
−6
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 2.334
Std Dev 41.66
2
1
0
−1
−2
−3
−4

pull1D
Entries 37
Mean −0.01291
Std Dev 0.8798
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 106.6 / 36
p0 15.25 ± 0.6844
40
35
30
25
20
15
10
5
0
−5
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −160.8
Std Dev 183.4
4
3
2
1
0
−1
−2

pull1D
Entries 37
Mean −0.06109
Std Dev 1.696
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 27.78 / 36
p0 −0.1863 ± 0.02204
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −12.86
Std Dev 36.17
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 37
Mean −0.07776
Std Dev 0.863
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 6.288 / 36
p0 0.4606 ± 1.069
pull
Entries 37
Mean 103.1
Std Dev 79.01

pull1D
Entries 37
Mean −0.03029
Std Dev 0.4111

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.019 / 36
p0 −98.5 ± 1.159
−70
−80
−90
−100
−110
−120
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 64.62
Std Dev 39.69
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

pull1D
Entries 37
Mean 0.03354
Std Dev 0.3668
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.588 / 36
p0 −6.802 ± 1.07
pull
Entries 37
Mean 141.4
Std Dev 117.3

pull1D
Entries 37
Mean 0.0126
Std Dev 0.2642

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ2 / ndf 117.5 / 36
p0 36.54 ± 1.961
80
60
40
20
0
−20
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −37.38
Std Dev 59
1
0
−1
−2
−3
−4

pull1D
Entries 37
Mean 0.2068
Std Dev 1.77
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 0.607 / 36
p0 0.532 ± 0.06231
pull
Entries 37
Mean 27.19
Std Dev 10.03

pull1D
Entries 37
Mean 0.009543
Std Dev 0.1277

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 19.6 / 36
p0 −17.26 ± 3.07
20
0
−20
−40
−60
−80
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 29.85
Std Dev 5.724
3
2
1
0
−1
pull1D
Entries 37
Mean −0.1945
Std Dev 0.7013
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.649 / 36
p0 10.27 ± 3.6
60
40
20
0
−20
−40
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 946.8
Std Dev 924.4
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 37
Mean 0.001254
Std Dev 0.2111
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 48.48 / 36
p0 −68.9 ± 3.001
0
−20
−40
−60
−80
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 44.07
Std Dev 20.47
2
1
0
−1
−2
−3
−4
−5

pull1D
Entries 37
Mean 0.2747
Std Dev 1.111
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.264 / 36
p0 −7.579 ± 5.848
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −22.85
Std Dev 43.46
0.4
0.2
0
−0.2
−0.4

pull1D
Entries 37
Mean 0.02185
Std Dev 0.1835
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 10.42 / 36
p0 −0.5203 ± 0.1814
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 9.403
Std Dev 11.27
pull1D
Entries 37
Mean −0.1436
Std Dev 0.5108

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 50.2 / 36
p0 −22.74 ± 1.094
−10
−20
−30
−40
−50
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 36.01
Std Dev 12.43
pull1D
Entries 37
Mean −0.2901
Std Dev 1.128

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.842 / 36
p0 −4.185 ± 1.28
pull
Entries 37
Mean 168.7
Std Dev 146.5

pull1D
Entries 37
Mean 0.006705
Std Dev 0.277

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 91.05 / 36
p0 −6.702 ± 1.069
20
10
0
−10
−20
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 41.61
Std Dev 17.96
2
0
−2
−4
−6

pull1D
Entries 37
Mean 0.3878
Std Dev 1.52
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.175 / 36
p0 15.39 ± 2.076
pull
Entries 37
Mean −159.9
Std Dev 180.1
pull1D
Entries 37
Mean 0.003237
Std Dev 0.2425

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 28.64 / 36
p0 −0.308 ± 0.06433
pull
Entries 37
Mean 8.05
Std Dev 12.03
pull1D
Entries 37
Mean −0.2368
Std Dev 0.8473

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 27.78 / 36
p0 −16.24 ± 2.606
20
0
−20
−40
−60
−80
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 33.28
Std Dev 10.96
4
3
2
1
0
−1

pull1D
Entries 37
Mean −0.2203
Std Dev 0.838
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 1.348 / 36
p0 −22.79 ± 3.047
20
0
−20
−40
−60
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 1871
Std Dev 1850
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

pull1D
Entries 37
Mean 0.0006134
Std Dev 0.1909
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 66.41 / 36
p0 −54.92 ± 2.548
0
−20
−40
−60
−80
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 46.13
Std Dev 23.23
2
1
0
−1
−2
−3
−4
−5
−6

pull1D
Entries 37
Mean 0.3093
Std Dev 1.304
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.281 / 36
p0 14.34 ± 4.93
pull
Entries 37
Mean −11.04
Std Dev 31.5

pull1D
Entries 37
Mean 0.09842
Std Dev 0.4325

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 17.37 / 36
p0 −0.0354 ± 0.1527
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 8.671
Std Dev 12.04

pull1D
Entries 37
Mean −0.2021
Std Dev 0.6546

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 6.387 / 36
p0 −20.03 ± 5.246
60
40
20
0
−20
−40
−60
−80
−100
−120
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 38.87
Std Dev 14.1
1.5
1
0.5
0
−0.5

pull1D
Entries 37
Mean −0.1172
Std Dev 0.3986
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.514 / 36
p0 −134 ± 6.113
pull
Entries 37
Mean 123.9
Std Dev 102.3
pull1D
Entries 37
Mean −0.01058
Std Dev 0.202

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.427 / 36
p0 −115.2 ± 5.174
−20
−40
−60
−80
−100
−120
−140
−160
−180
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 37.37
Std Dev 12.19
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 37
Mean 0.1515
Std Dev 0.4815
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.505 / 36
p0 73.8 ± 10.62
pull
Entries 37
Mean −141.5
Std Dev 164.4

pull1D
Entries 37
Mean 0.01786
Std Dev 0.4791

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 2.021 / 36
p0 0.3668 ± 0.3406
pull
Entries 37
Mean −24.33
Std Dev 46.85

pull1D
Entries 37
Mean −0.02894
Std Dev 0.2319

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 12.43 / 36
p0 −23.5 ± 4.174
40
20
0
−20
−40
−60
−80
−100
−120
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 31.63
Std Dev 6.898
3
2.5
2
1.5
1
0.5
0
−0.5

pull1D
Entries 37
Mean −0.16
Std Dev 0.557
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ2 / ndf 1.521 / 36
p0 44.01 ± 4.88
120
100
80
60
40
20
0
−20
−40
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 127.2
Std Dev 105.8
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

pull1D
Entries 37
Mean 0.009111
Std Dev 0.2026
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 23.5 / 36
p0 −94.61 ± 4.1
−20
−40
−60
−80
−100
−120
−140
−160
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 36.95
Std Dev 12.02
1
0
−1
−2
−3

pull1D
Entries 37
Mean 0.2289
Std Dev 0.7634
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.621 / 36
p0 19.5 ± 8.22
150
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −20.1
Std Dev 42.26
0.8
0.6
0.4
0.2
0
−0.2
−0.4

pull1D
Entries 37
Mean −0.04182
Std Dev 0.31
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 4.571 / 36
p0 −1.417 ± 0.2594
2
0
−2
−4
−6
−8
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 6.626
Std Dev 16.09
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

pull1D
Entries 37
Mean −0.06663
Std Dev 0.3451
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 9.712 / 36
p0 −26.85 ± 2.94
0
−20
−40
−60
−80
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 38.3
Std Dev 15.74
2.5
2
1.5
1
0.5
0
−0.5
pull1D
Entries 37
Mean −0.1028
Std Dev 0.5019
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.619 / 36
p0 77.92 ± 3.339
140
120
100
80
60
40
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 139
Std Dev 114.3
0.4
0.2
0
−0.2
−0.4
−0.6

pull1D
Entries 37
Mean −0.009226
Std Dev 0.2659
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.25 / 36
p0 −51.9 ± 2.906
0
−20
−40
−60
−80
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 44.6
Std Dev 21.1
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

pull1D
Entries 37
Mean 0.1485
Std Dev 0.6864
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.91 / 36
p0 −0.7425 ± 5.609
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −23.64
Std Dev 45.33
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

pull1D
Entries 37
Mean −0.08519
Std Dev 0.5844
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 8.073 / 36
p0 −1.186 ± 0.177
1
0
−1
−2
−3
−4
−5
−6
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 0.2389
Std Dev 21.25
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

pull1D
Entries 37
Mean −0.09797
Std Dev 0.4567
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 14.87 / 36
p0 −12.08 ± 0.92
0
−5
−10
−15
−20
−25
−30
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 75.89
Std Dev 53.66
2.5
2
1.5
1
0.5
0
−0.5
−1

pull1D
Entries 37
Mean −0.07227
Std Dev 0.6298
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.579 / 36
p0 −51.28 ± 1.022
pull
Entries 37
Mean 76.21
Std Dev 51.43

pull1D
Entries 37
Mean 0.02307
Std Dev 0.3102

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 24.55 / 36
p0 −5.746 ± 0.9144
pull
Entries 37
Mean 76.11
Std Dev 53.71

pull1D
Entries 37
Mean 0.09573
Std Dev 0.809

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ2 / ndf 42.59 / 36
p0 25.38 ± 1.715
pull
Entries 37
Mean −28.94
Std Dev 50.47

pull1D
Entries 37
Mean 0.1463
Std Dev 1.063

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 8.813 / 36
p0 0.07847 ± 0.05416
1
0.5
0
−0.5
−1
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 0.6825
Std Dev 20.62

pull1D
Entries 37
Mean −0.08997
Std Dev 0.4797
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 12.58 / 36
p0 6.029 ± 1.485
pull
Entries 37
Mean 29.68
Std Dev 5.861

pull1D
Entries 37
Mean 0.1484
Std Dev 0.5639

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.039 / 36
p0 3.714 ± 1.735
30
20
10
0
−10
−20
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −206.1
Std Dev 229.3
0.2
0
−0.2
−0.4
−0.6
−0.8

pull1D
Entries 37
Mean 0.005959
Std Dev 0.2347
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 44.6 / 36
p0 34.69 ± 1.451
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 53.82
Std Dev 30.64
pull1D
Entries 37
Mean −0.2074
Std Dev 1.078

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ2 / ndf 5.39 / 36
p0 13.35 ± 2.791
60
40
20
0
−20
−40
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −8.667
Std Dev 29.38
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

pull1D
Entries 37
Mean −0.0905
Std Dev 0.3708
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 7.409 / 36
p0 0.1822 ± 0.08623
pull
Entries 37
Mean 10.02
Std Dev 10.24

pull1D
Entries 37
Mean 0.1274
Std Dev 0.429

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 9.633 / 36
p0 −21.95 ± 3.838
40
20
0
−20
−40
−60
−80
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 33.46
Std Dev 7.698
2.5
2
1.5
1
0.5
0
−0.5

pull1D
Entries 37
Mean −0.1647
Std Dev 0.4829
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.069 / 36
p0 −27.92 ± 4.563
40
20
0
−20
−40
−60
−80
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 107.5
Std Dev 84.72
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

pull1D
Entries 37
Mean −0.01249
Std Dev 0.1695
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.64 / 36
p0 −85.68 ± 3.765
−20
−40
−60
−80
−100
−120
−140
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 33.77
Std Dev 7.315
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

pull1D
Entries 37
Mean 0.2222
Std Dev 0.6111
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.8709 / 36
p0 34.32 ± 7.865
150
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −98.69
Std Dev 121.6
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

pull1D
Entries 37
Mean 0.007071
Std Dev 0.1533
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

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 7.091 / 36
p0 3.567 ± 0.8786
pull
Entries 37
Mean 17.59
Std Dev 17.7

pull1D
Entries 37
Mean 0.05046
Std Dev 0.4349

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.381 / 36
p0 −33.75 ± 0.9849
pull
Entries 37
Mean −77.94
Std Dev 98.05

pull1D
Entries 37
Mean 0.00584
Std Dev 0.3022

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.124 / 36
p0 19.07 ± 0.8757
pull
Entries 37
Mean −36.44
Std Dev 51.84

pull1D
Entries 37
Mean −0.02696
Std Dev 0.438

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 43.59 / 36
p0 1.894 ± 1.722
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −592.3
Std Dev 615

pull1D
Entries 37
Mean 0.01142
Std Dev 1.085

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 3.993 / 36
p0 0.6189 ± 0.05553
1.5
1
0.5
0
−0.5
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −24.93
Std Dev 49.62
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean −0.01149
Std Dev 0.3283
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 15.15 / 36
p0 −14.79 ± 2.193
pull
Entries 37
Mean 32.76
Std Dev 8.91

pull1D
Entries 37
Mean −0.1632
Std Dev 0.6188

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.892 / 36
p0 31.04 ± 2.54
pull
Entries 37
Mean 133.1
Std Dev 112.9

pull1D
Entries 37
Mean 0.00764
Std Dev 0.226

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 24.67 / 36
p0 −46.21 ± 2.16
0
−10
−20
−30
−40
−50
−60
−70
−80
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 36.13
Std Dev 11.47
1
0
−1
−2
−3
−4

pull1D
Entries 37
Mean 0.2279
Std Dev 0.7842
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 7.242 / 36
p0 17.89 ± 4.297
80
60
40
20
0
−20
−40
−60
−80
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −26.45
Std Dev 48.65
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

pull1D
Entries 37
Mean −0.05473
Std Dev 0.439
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 6.073 / 36
p0 −0.7964 ± 0.136
1
0
−1
−2
−3
−4
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 5.392
Std Dev 17.42
1
0.5
0
−0.5
−1

pull1D
Entries 37
Mean −0.07235
Std Dev 0.3986
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 15.33 / 36
p0 −20.35 ± 3.613
20
0
−20
−40
−60
−80
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 30.81
Std Dev 6.314
3.5
3
2.5
2
1.5
1
0.5
0
−0.5
−1

pull1D
Entries 37
Mean −0.1773
Std Dev 0.6188
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 1.477 / 36
p0 27.08 ± 4.238
pull
Entries 37
Mean 166.5
Std Dev 144.6

pull1D
Entries 37
Mean 0.007173
Std Dev 0.1996

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 32.8 / 36
p0 −82.08 ± 3.54
0
−20
−40
−60
−80
−100
−120
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 39.33
Std Dev 15.03
1
0
−1
−2
−3
−4

pull1D
Entries 37
Mean 0.2576
Std Dev 0.9055
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.306 / 36
p0 6.75 ± 7.039
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −4.988
Std Dev 27.21
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

pull1D
Entries 37
Mean −0.02557
Std Dev 0.1861
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 6.659 / 36
p0 −0.9782 ± 0.2206
2
0
−2
−4
−6
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 7.97
Std Dev 13.86
1
0.5
0
−0.5
−1

pull1D
Entries 37
Mean −0.09498
Std Dev 0.4135
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 37.82 / 36
p0 −10.76 ± 1.363
10
0
−10
−20
−30
−40
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 32.68
Std Dev 10.07
5
4
3
2
1
0
−1

pull1D
Entries 37
Mean −0.2641
Std Dev 0.9759
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 1.456 / 36
p0 −2.504 ± 1.596
30
20
10
0
−10
−20
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 171.5
Std Dev 151.3
0.4
0.2
0
−0.2
−0.4

pull1D
Entries 37
Mean 0.006285
Std Dev 0.1983
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 72.1 / 36
p0 −27.12 ± 1.334
pull
Entries 37
Mean 40.28
Std Dev 17.07

pull1D
Entries 37
Mean 0.3708
Std Dev 1.346

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.822 / 36
p0 16.64 ± 2.613
60
40
20
0
−20
−40
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −29.69
Std Dev 49.57
0.4
0.2
0
−0.2
−0.4
−0.6

pull1D
Entries 37
Mean 0.02357
Std Dev 0.2207
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 21.48 / 36
p0 −0.1046 ± 0.08135
pull
Entries 37
Mean 7.986
Std Dev 13.14

pull1D
Entries 37
Mean −0.206
Std Dev 0.7335

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 23.27 / 36
p0 −16.68 ± 2.832
20
0
−20
−40
−60
−80
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 31.38
Std Dev 8.291
4
3
2
1
0
−1
pull1D
Entries 37
Mean −0.2094
Std Dev 0.7649
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 1.402 / 36
p0 −6.259 ± 3.319
40
20
0
−20
−40
−60
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 1205
Std Dev 1183
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

pull1D
Entries 37
Mean 0.0009718
Std Dev 0.1947
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 56.69 / 36
p0 −62 ± 2.768
0
−20
−40
−60
−80
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 44.74
Std Dev 21.47
2
1
0
−1
−2
−3
−4
−5

pull1D
Entries 37
Mean 0.2951
Std Dev 1.202
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.005 / 36
p0 3.428 ± 5.382
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −13.96
Std Dev 34.49
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 37
Mean 0.05615
Std Dev 0.2794
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 13.27 / 36
p0 −0.2777 ± 0.1668
pull
Entries 37
Mean 9.016
Std Dev 11.68

pull1D
Entries 37
Mean −0.1706
Std Dev 0.574

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 9.097 / 36
p0 8.893 ± 1.997
pull
Entries 37
Mean 31.08
Std Dev 5.482

pull1D
Entries 37
Mean 0.1443
Std Dev 0.4744

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.293 / 36
p0 −13.03 ± 2.352
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 142.5
Std Dev 120.1
pull1D
Entries 37
Mean −0.008903
Std Dev 0.1867

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.82 / 36
p0 48.15 ± 1.957
80
70
60
50
40
30
20
10
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 39.05
Std Dev 14.17
3
2
1
0
−1

pull1D
Entries 37
Mean −0.2143
Std Dev 0.7374
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.112 / 36
p0 −1.378 ± 3.943
80
60
40
20
0
−20
−40
−60
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −11.28
Std Dev 33.61
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

pull1D
Entries 37
Mean 0.02259
Std Dev 0.1719
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 3.116 / 36
p0 0.6238 ± 0.1241
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 7.75
Std Dev 14.91

pull1D
Entries 37
Mean 0.05784
Std Dev 0.2844

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.425 / 36
p0 −17.17 ± 0.671
−5
−10
−15
−20
−25
−30
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −87.58
Std Dev 103.2
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

pull1D
Entries 37
Mean 0.005942
Std Dev 0.3042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.412 / 36
p0 12.19 ± 0.5973
pull
Entries 37
Mean −27.63
Std Dev 45.69

pull1D
Entries 37
Mean −0.03083
Std Dev 0.3812

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 35.64 / 36
p0 −10.36 ± 1.188
20
10
0
−10
−20
−30
−40
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 198.3
Std Dev 174.8
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

pull1D
Entries 37
Mean −0.03422
Std Dev 0.9808
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 2.834 / 36
p0 0.3946 ± 0.03862
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 30.54
Std Dev 16.87
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

pull1D
Entries 37
Mean 0.003386
Std Dev 0.2767
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ2 / ndf 16.47 / 36
p0 5.736 ± 1.28
pull
Entries 37
Mean 36.25
Std Dev 14.91

pull1D
Entries 37
Mean 0.1439
Std Dev 0.6515

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ2 / ndf 2.114 / 36
p0 20.27 ± 1.477
40
30
20
10
0
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −192.6
Std Dev 215.3
0.2
0
−0.2
−0.4
−0.6

pull1D
Entries 37
Mean 0.00632
Std Dev 0.2389
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 56.8 / 36
p0 27.34 ± 1.254
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 63.89
Std Dev 41.56

pull1D
Entries 37
Mean −0.1927
Std Dev 1.224

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.46 / 36
p0 2.684 ± 2.364
40
20
0
−20
−40
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −6.43
Std Dev 26.88
1.5
1
0.5
0
−0.5

pull1D
Entries 37
Mean −0.1936
Std Dev 0.718
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ^2 / ndf 12.84 / 36
p0 −0.06087 ± 0.07294
pull
Entries 37
Mean 9.022
Std Dev 11.33

pull1D
Entries 37
Mean 0.1847
Std Dev 0.5594

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 16.36 / 36
p0 −0.6449 ± 0.2845
pull
Entries 37
Mean 772
Std Dev 753.1

pull1D
Entries 37
Mean 0.004036
Std Dev 0.665

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.944 / 36
p0 16.63 ± 0.3185
22
20
18
16
14
12
10
8
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −20.27
Std Dev 47.73
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 37
Mean −0.01915
Std Dev 0.5181
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.84 / 36
p0 −6.804 ± 0.2821
pull
Entries 37
Mean −549.8
Std Dev 556.9

pull1D
Entries 37
Mean 0.002043
Std Dev 0.7322

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 71.47 / 36
p0 −11.85 ± 0.5313
0
−5
−10
−15
−20
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −26.35
Std Dev 47.43
3
2
1
0
−1

pull1D
Entries 37
Mean −0.1937
Std Dev 1.376
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 16.97 / 36
p0 −0.2352 ± 0.01671
pull
Entries 37
Mean 0.6138
Std Dev 21.46

pull1D
Entries 37
Mean 0.1053
Std Dev 0.669

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ2 / ndf 25.4 / 36
p0 −11.51± 1.617
10
0
−10
−20
−30
−40
−50
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 30.75
Std Dev 7.218
4
3
2
1
0
−1

pull1D
Entries 37
Mean −0.2127
Std Dev 0.8008
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 1.84 / 36
p0 14.04 ± 1.886
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 203.9
Std Dev 182.7

pull1D
Entries 37
Mean 0.005345
Std Dev 0.2229

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 50.06 / 36
p0 −33.76 ± 1.584
0
−10
−20
−30
−40
−50
−60
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 40.51
Std Dev 16.81
2
1
0
−1
−2
−3
−4
−5

pull1D
Entries 37
Mean 0.2992
Std Dev 1.124
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.671 / 36
p0 5.348 ± 3.093
60
40
20
0
−20
−40
−60
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 0.8364
Std Dev 21.25
0.6
0.4
0.2
0
−0.2

pull1D
Entries 37
Mean −0.02861
Std Dev 0.2106
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 13.3 / 36
p0 −0.3449 ± 0.09639
pull
Entries 37
Mean 8.504
Std Dev 12.57

pull1D
Entries 37
Mean −0.1509
Std Dev 0.5802

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 18.16 / 36
p0 −19.6 ± 3.358
20
0
−20
−40
−60
−80
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 31.82
Std Dev 8.102
3
2
1
0
−1
pull1D
Entries 37
Mean −0.1953
Std Dev 0.6728
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 1.222 / 36
p0 10.54 ± 3.947
80
60
40
20
0
−20
−40
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 159.2
Std Dev 137.6
0.4
0.2
0
−0.2
−0.4
−0.6

pull1D
Entries 37
Mean 0.007515
Std Dev 0.1816
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 37.98 / 36
p0 −75.44 ± 3.289
0
−20
−40
−60
−80
−100
−120
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 39.22
Std Dev 15.21
2
1
0
−1
−2
−3
−4

pull1D
Entries 37
Mean 0.2833
Std Dev 0.9727
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_bpm4eY_slope vs run
χ² / ndf 0.6177 / 36
p0 18.34 ± 6.556
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 22.71
Std Dev 14.39
0.4
0.3
0.2
0.1
0
−0.1
−0.2

pull1D
Entries 37
Mean −0.008746
Std Dev 0.1289
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_bpm12X_slope vs run
χ² / ndf 8.226 / 36
p0 −0.7441± 0.2055
pull
Entries 37
Mean 7.405
Std Dev 14.48

pull1D
Entries 37
Mean −0.1102
Std Dev 0.4584

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.921 / 36
p0 1.747 ± 1.033
15
10
5
0
−5
−10
−15
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 139.1
Std Dev 117.2
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

pull1D
Entries 37
Mean −0.009113
Std Dev 0.1575
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 27.94 / 36
p0 20.72 ± 0.8563
30
25
20
15
10
5
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 39.16
Std Dev 15.02
4
3
2
1
0
−1

pull1D
Entries 37
Mean −0.2517
Std Dev 0.8317
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.3724 / 36
p0 −6.581 ± 1.733
30
20
10
0
−10
−20
−30
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −92.99
Std Dev 112.3
0.3
0.2
0.1
0
−0.1
−0.2

pull1D
Entries 37
Mean −0.004472
Std Dev 0.1002
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 20.42 / 36
p0 −15.54 ± 2.486
10
0
−10
−20
−30
−40
−50
−60
−70
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 31.42
Std Dev 7.737
4
3
2
1
0
−1

pull1D
Entries 37
Mean −0.2021
Std Dev 0.7149
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.391 / 36
p0 12.29 ± 2.916
60
40
20
0
−20
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 170
Std Dev 148.5
0.4
0.2
0
−0.2
−0.4
−0.6

pull1D
Entries 37
Mean 0.006856
Std Dev 0.1938
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 41.81 / 36
p0 −54.65 ± 2.435
0
−10
−20
−30
−40
−50
−60
−70
−80
−90
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 39.5
Std Dev 15.58
2
1
0
−1
−2
−3
−4
−5

pull1D
Entries 37
Mean 0.2907
Std Dev 1.022
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 0.8652 / 36
p0 11.81 ± 4.824
pull
Entries 37
Mean 9.238
Std Dev 15.99

pull1D
Entries 37
Mean −0.01451
Std Dev 0.1522

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 50.03 / 36
p0 7.184 ± 3.137
150
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 0.8822
Std Dev 9.438
2
1
0
−1
−2
−3
−4

pull1D
Entries 37
Mean 0.05367
Std Dev 1.162
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 23.99 / 36
p0 4.355 ± 3.809
80
60
40
20
0
−20
−40
−60
−80
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 972.2
Std Dev 957
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean −0.002711
Std Dev 0.8052
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 51.27 / 36
p0 21.36 ± 3.072
150
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −13.7
Std Dev 29.15
4
3
2
1
0
−1
−2

pull1D
Entries 37
Mean −0.03971
Std Dev 1.176
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 25.34 / 36
p0 −5.609 ± 6.78
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −170.8
Std Dev 182.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 37
Mean −0.009281
Std Dev 0.8274
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 545.4 / 36
p0 1.615 ± 0.22
pull
Entries 37
Mean 132.5
Std Dev 112.4

pull1D
Entries 37
Mean −0.5384
Std Dev 2.247

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 4.422 / 36
p0 −181.7 ± 14.48
200
100
0
−100
−200
−300
−400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −36.36
Std Dev 58.72
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

pull1D
Entries 37
Mean 0.02892
Std Dev 0.3445
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 1.775 / 36
p0 77.29 ± 17.02
400
300
200
100
0
−100
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 187.7
Std Dev 168.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

pull1D
Entries 37
Mean 0.003511
Std Dev 0.219
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 4.307 / 36
p0 114.7 ± 14.22
300
200
100
0
−100
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −6.911
Std Dev 28.76
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

pull1D
Entries 37
Mean −0.05124
Std Dev 0.3373
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 2.609 / 36
p0 −21.49 ± 29.1
400
200
0
−200
−400
−600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −25.78
Std Dev 50.7
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 37
Mean −0.01679
Std Dev 0.265
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 85.81 / 36
p0 −250.7 ± 0.926
−225
−230
−235
−240
−245
−250
−255
−260
−265
−270
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −8.266
Std Dev 26.71
5
4
3
2
1
0
−1
−2
−3

pull1D
Entries 37
Mean −0.1609
Std Dev 1.514
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 48.12 / 36
p0 −33.3 ± 4.015
50
0
−50
−100
−150
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 153.9
Std Dev 132.5
1
0
−1
−2
−3
−4

pull1D
Entries 37
Mean −0.03896
Std Dev 1.14
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 24.99 / 36
p0 8.65 ± 4.812
pull
Entries 37
Mean −23.05
Std Dev 37.33

pull1D
Entries 37
Mean 0.0256
Std Dev 0.8214

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 45.58 / 36
p0 −13.82 ± 3.942
150
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −199.7
Std Dev 220.1
4
3
2
1
0
−1

pull1D
Entries 37
Mean −0.02066
Std Dev 1.11
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atr1_diff_bpm4eY_slope vs run
χ2 / ndf 23.5 / 36
p0 1.606 ± 8.547
150
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 2.367
Std Dev 10.07
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 37
Mean −0.02782
Std Dev 0.7965
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 814.8 / 36
p0 −46.32 ± 0.2774
−30
−40
−50
−60
−70
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −83.96
Std Dev 163.8
10
5
0
−5
−10
−15

pull1D
Entries 37
Mean 0.4352
Std Dev 2.26
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 5.393 / 36
p0 −193.3 ± 21.37
100
0
−100
−200
−300
−400
−500
−600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 8.443
Std Dev 11.73
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean 0.06776
Std Dev 0.3757
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 1.609 / 36
p0 98.29 ± 25.3
500
400
300
200
100
0
−100
−200
−300
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 71.07
Std Dev 46.67
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

pull1D
Entries 37
Mean 0.01365
Std Dev 0.2081
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atr2_diff_bpm4eX_slope vs run
χ2 / ndf 6.147 / 36
p0 329.4 ± 20.97
700
600
500
400
300
200
100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 18.65
Std Dev 7.869
1.5
1
0.5
0
−0.5
pull1D
Entries 37
Mean −0.1068
Std Dev 0.3934
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 1.013 / 36
p0 −73.61 ± 43.4
800
600
400
200
0
−200
−400
−600
−800
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −105.1
Std Dev 127.1
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

pull1D
Entries 37
Mean −0.004693
Std Dev 0.1654
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 56.38 / 36
p0 −276.2 ± 1.383
−250
−260
−270
−280
−290
−300
−310
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −130.4
Std Dev 156
2
1
0
−1
−2
−3
−4
−5

pull1D
Entries 37
Mean 0.01667
Std Dev 1.234
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 6.268 / 36
p0 −86.84 ± 7.715
100
50
0
−50
−100
−150
−200
−250
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −19.64
Std Dev 40.76
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

pull1D
Entries 37
Mean 0.03932
Std Dev 0.4097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ2 / ndf 2.979 / 36
p0 40.26 ± 9.092
200
150
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 11.71
Std Dev 23.96
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

pull1D
Entries 37
Mean 0.006196
Std Dev 0.2837
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.448 / 36
p0 67.63 ± 7.575
200
150
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −4.439
Std Dev 25.13
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

pull1D
Entries 37
Mean −0.05719
Std Dev 0.4135
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.773 / 36
p0 −13.02 ± 15.54
200
100
0
−100
−200
−300
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −32.85
Std Dev 53.5
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

pull1D
Entries 37
Mean −0.02056
Std Dev 0.3187
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 236.1 / 36
p0 −123.7 ± 0.4945
−105
−110
−115
−120
−125
−130
−135
−140
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −5.383
Std Dev 23.5
pull1D
Entries 37
Mean −0.2933
Std Dev 2.509

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 7.332 / 36
p0 94.46 ± 7.103
250
200
150
100
50
0
−50
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −86.44
Std Dev 110.4
1
0.5
0
−0.5
−1

pull1D
Entries 37
Mean −0.01419
Std Dev 0.4449
16
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 2.749 / 36
p0 −36.85 ± 8.357
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 654.7
Std Dev 637.6
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

pull1D
Entries 37
Mean −0.001944
Std Dev 0.2726
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.072 / 36
p0 −46.67 ± 6.982
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −9.248
Std Dev 32.67
1
0.5
0
−0.5
−1

pull1D
Entries 37
Mean 0.04027
Std Dev 0.4353
16
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 3.656 / 36
p0 8.944 ± 14.38
300
200
100
0
−100
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −19.38
Std Dev 57
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

pull1D
Entries 37
Mean 0.008857
Std Dev 0.3142
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_diff_bpm12X_slope vs run
χ^2 / ndf 7.936 / 36
p0 126.8 ± 0.459
134
132
130
128
126
124
122
120
118
116
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −16.8
Std Dev 36.61
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean 0.03989
Std Dev 0.4614
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 9.165 / 36
p0 −114.1± 11.54
100
50
0
−50
−100
−150
−200
−250
−300
−350
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −11.07
Std Dev 32.11
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean 0.05655
Std Dev 0.4945
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 2.248 / 36
p0 53.13 ± 13.64
pull
Entries 37
Mean 43.39
Std Dev 11.91

pull1D
Entries 37
Mean 0.01865
Std Dev 0.2458

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 9.378 / 36
p0 158.2 ± 11.33
pull
Entries 37
Mean 10.31
Std Dev 6.847

pull1D
Entries 37
Mean −0.1016
Std Dev 0.4931

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.711 / 36
p0 −35.68 ± 23.35
400
300
200
100
0
−100
−200
−300
−400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −39.34
Std Dev 59.28
0.4
0.2
0
−0.2
−0.4

pull1D
Entries 37
Mean −0.01048
Std Dev 0.2148
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 169.3 / 36
p0 −160.7 ± 0.7435
−150
−160
−170
−180
−190
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 53.47
Std Dev 9.184
4
2
0
−2
−4
−6
−8

pull1D
Entries 37
Mean −0.05948
Std Dev 2.138
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ2 / ndf 4.605 / 36
p0 79.23 ± 10.15
250
200
150
100
50
0
−50
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 24.45
Std Dev 5.182
1.5
1
0.5
0
−0.5

pull1D
Entries 37
Mean −0.07878
Std Dev 0.3439
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.523 / 36
p0 −44.82 ± 12.07
150
100
50
0
−50
−100
−150
−200
−250
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 122
Std Dev 99.98
0.4
0.2
0
−0.2
−0.4
−0.6

pull1D
Entries 37
Mean −0.009055
Std Dev 0.261
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ2 / ndf 5.638 / 36
p0 −171.2 ± 9.961
−50
−100
−150
−200
−250
−300
−350
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 27.35
Std Dev 5.178
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean 0.1099
Std Dev 0.3746
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 1.867 / 36
p0 37.93 ± 20.83
400
300
200
100
0
−100
−200
−300
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 290
Std Dev 265.3
0.8
0.6
0.4
0.2
0
−0.2
−0.4

pull1D
Entries 37
Mean −0.00197
Std Dev 0.2246
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ^2 / ndf 5.25 / 36
p0 115.1 ± 0.6653
125
120
115
110
105
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −41.17
Std Dev 60.09
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

pull1D
Entries 37
Mean −0.04049
Std Dev 0.3745
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 61.34 / 36
p0 −12.95 ± 2.614
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −1225
Std Dev 1245
2
1
0
−1
−2
−3
−4
−5

pull1D
Entries 37
Mean 0.003581
Std Dev 1.288
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.07 / 36
p0 6.244 ± 3.145
80
60
40
20
0
−20
−40
−60
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −86.35
Std Dev 101.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean 0.02313
Std Dev 0.8228
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ2 / ndf 62.6 / 36
p0 3.663 ± 2.563
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −79.16
Std Dev 98.68

pull1D
Entries 37
Mean −0.04146
Std Dev 1.3

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 23.1 / 36
p0 −1.626 ± 5.58
80
60
40
20
0
−20
−40
−60
−80
−100
−120
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −25.52
Std Dev 35.71
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 37
Mean −0.03227
Std Dev 0.7895
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ^2 / ndf 1224 / 36
p0 −22.12 ± 0.181
−5
−10
−15
−20
−25
−30
−35
−40
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −88.37
Std Dev 97.67
15
10
5
0
−5
−10
−15

pull1D
Entries 37
Mean 0.06658
Std Dev 1.687
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 32.65 / 36
p0 20.25 ± 2.48
120
100
80
60
40
20
0
−20
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 75.68
Std Dev 52.73
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean 0.06395
Std Dev 0.9372
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 23.94 / 36
p0 −2.235 ± 2.987
40
20
0
−20
−40
−60
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 58.69
Std Dev 42.58
1.5
1
0.5
0
−0.5
−1

pull1D
Entries 37
Mean −0.02091
Std Dev 0.804
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 29.03 / 36
p0 17.57 ± 2.432
60
40
20
0
−20
−40
−60
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 435.3
Std Dev 413.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 37
Mean −0.006834
Std Dev 0.8858
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ2 / ndf 25.23 / 36
p0 −3.454 ± 5.32
80
60
40
20
0
−20
−40
−60
−80
−100
−120
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 74.03
Std Dev 59.22
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean 0.01418
Std Dev 0.8256
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 189.9 / 36
p0 24.13 ± 0.1728
pull
Entries 37
Mean −157
Std Dev 184.7

pull1D
Entries 37
Mean −0.2645
Std Dev 1.852

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 4.123 / 36
p0 −187.4 ± 17.64
100
0
−100
−200
−300
−400
−500
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −1.84
Std Dev 23.33
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

pull1D
Entries 37
Mean 0.05215
Std Dev 0.3297
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.972 / 36
p0 87.96 ± 20.82
400
300
200
100
0
−100
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 92.93
Std Dev 70.65
0.4
0.3
0.2
0.1
0
−0.1
−0.2

pull1D
Entries 37
Mean 0.009247
Std Dev 0.1618
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.279 / 36
p0 221.8 ± 17.32
500
400
300
200
100
0
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 12.41
Std Dev 5.992
1.5
1
0.5
0
−0.5

pull1D
Entries 37
Mean −0.08457
Std Dev 0.3294
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 0.9557 / 36
p0 −47.61 ± 35.62
600
400
200
0
−200
−400
−600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −49.67
Std Dev 73.08
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

pull1D
Entries 37
Mean −0.009618
Std Dev 0.1604
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 60.6 / 36
p0 −263.5 ± 1.134
−240
−250
−260
−270
−280
−290
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 14
Std Dev 19.5
3
2
1
0
−1
−2
−3
−4

pull1D
Entries 37
Mean −0.05575
Std Dev 1.279
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ^2 / ndf 17.92 / 36
p0 −6.508 ± 4.661
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 23.88
Std Dev 9.387
1.5
1
0.5
0
−0.5
−1
−1.5
−2

pull1D
Entries 37
Mean 0.1201
Std Dev 0.6855
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ2 / ndf 10.04 / 36
p0 9.797 ± 5.579
150
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 34.69
Std Dev 16.43
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 37
Mean 0.03241
Std Dev 0.5198
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 22 / 36
p0 108.4 ± 4.57
pull
Entries 37
Mean 27.77
Std Dev 8.742

pull1D
Entries 37
Mean −0.1794
Std Dev 0.75

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.3 / 36
p0 −24.72 ± 9.729
150
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 136.1
Std Dev 129.3
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean 0.002582
Std Dev 0.4736
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 127.8 / 36
p0 −12.41 ± 0.3125
pull
Entries 37
Mean −52.23
Std Dev 74.39

pull1D
Entries 37
Mean 0.1634
Std Dev 1.852

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 7.327 / 36
p0 −92.62 ± 11.18
100
50
0
−50
−100
−150
−200
−250
−300
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 9.36
Std Dev 9.03
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean 0.07294
Std Dev 0.439
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ2 / ndf 1.896 / 36
p0 50.88 ± 13.25
250
200
150
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 37.98
Std Dev 17.56
0.6
0.4
0.2
0
−0.2
−0.4

pull1D
Entries 37
Mean 0.01435
Std Dev 0.2259
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ2 / ndf 8.451 / 36
p0 174.9 ± 10.97
350
300
250
200
150
100
50
0
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 18.01
Std Dev 8.622
1.5
1
0.5
0
−0.5
−1

pull1D
Entries 37
Mean −0.1081
Std Dev 0.4655
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.601 / 36
p0 −39.21 ± 22.72
400
300
200
100
0
−100
−200
−300
−400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −90.55
Std Dev 109.4
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

pull1D
Entries 37
Mean −0.007359
Std Dev 0.2079
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 119.8 / 36
p0 −136.5 ± 0.7238
−120
−125
−130
−135
−140
−145
−150
−155
−160
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 23.2
Std Dev 21.71
4
2
0
−2
−4
−6

pull1D
Entries 37
Mean −0.07485
Std Dev 1.798
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 5.562 / 36
p0 100.5 ± 10.41
300
250
200
150
100
50
0
−50
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 7.712
Std Dev 14.14
1.5
1
0.5
0
−0.5

pull1D
Entries 37
Mean −0.06056
Std Dev 0.3829
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.364 / 36
p0 −47.18 ± 12.33
150
100
50
0
−50
−100
−150
−200
−250
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 102
Std Dev 80.98
0.4
0.2
0
−0.2
−0.4
−0.6

pull1D
Entries 37
Mean −0.01376
Std Dev 0.2524
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.962 / 36
p0 −154.4 ± 10.22
0
−50
−100
−150
−200
−250
−300
−350
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 19.55
Std Dev 6.909
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean 0.1033
Std Dev 0.3879
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.554 / 36
p0 34.39 ± 21.22
400
300
200
100
0
−100
−200
−300
−400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −163.9
Std Dev 193.8
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

pull1D
Entries 37
Mean 0.001796
Std Dev 0.2049
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 26.33 / 36
p0 139.6 ± 0.6771
155
150
145
140
135
130
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −32.25
Std Dev 54.54
3
2.5
2
1.5
1
0.5
0
−0.5
−1

pull1D
Entries 37
Mean −0.08939
Std Dev 0.8389
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 9.352 / 36
p0 −108.4 ± 8.29
100
50
0
−50
−100
−150
−200
−250
−300
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −139.3
Std Dev 161.2
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

pull1D
Entries 37
Mean 0.01813
Std Dev 0.5024
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.073 / 36
p0 42.52 ± 9.735
200
150
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 35.92
Std Dev 9.985
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

pull1D
Entries 37
Mean 0.0121
Std Dev 0.2879
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.557 / 36
p0 51.03 ± 8.147
200
150
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −28.07
Std Dev 49.36
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

pull1D
Entries 37
Mean −0.05045
Std Dev 0.4782
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.379 / 36
p0 −9.63 ± 16.64
300
200
100
0
−100
−200
−300
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −13.87
Std Dev 36.21
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

pull1D
Entries 37
Mean −0.02325
Std Dev 0.3013
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 263 / 36
p0 −147.9 ± 0.5299
−130
−135
−140
−145
−150
−155
−160
−165
−170
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 2.133
Std Dev 8.38
6
4
2
0
−2
−4
−6
−8

pull1D
Entries 37
Mean −0.2475
Std Dev 2.655
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ^2 / ndf 6.361 / 36
p0 72.99 ± 6.655
200
150
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 23.78
Std Dev 9.267
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

pull1D
Entries 37
Mean −0.03909
Std Dev 0.4128
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.787 / 36
p0 −34.55 ± 7.872
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −154
Std Dev 171.2
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

pull1D
Entries 37
Mean 0.005685
Std Dev 0.3199
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 6.452 / 36
p0 −63.34 ± 6.535
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 22.62
Std Dev 9.021
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

pull1D
Entries 37
Mean 0.04711
Std Dev 0.4149
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.936 / 36
p0 12.58 ± 13.58
200
100
0
−100
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −206.4
Std Dev 236.4
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

pull1D
Entries 37
Mean 0.002858
Std Dev 0.3652
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 46.36 / 36
p0 102.4 ± 0.4336
110
105
100
95
90
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −20.71
Std Dev 44.53
1
0
−1
−2
−3

pull1D
Entries 37
Mean 0.1279
Std Dev 1.112
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ2 / ndf 3.902 / 36
p0 86.77 ± 8.337
pull
Entries 37
Mean 12.06
Std Dev 10.99

pull1D
Entries 37
Mean −0.05296
Std Dev 0.3204

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.554 / 36
p0 −40.95 ± 9.86
100
50
0
−50
−100
−150
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 211.8
Std Dev 192.1
0.2
0
−0.2
−0.4
−0.6

pull1D
Entries 37
Mean −0.005775
Std Dev 0.2048
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 4.185 / 36
p0 −108.8 ± 8.184
50
0
−50
−100
−150
−200
−250
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 20.12
Std Dev 4.422
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean 0.0826
Std Dev 0.326
24
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 1.458 / 36
p0 23.32 ± 16.95
300
200
100
0
−100
−200
−300
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −129.8
Std Dev 159.3
0.6
0.4
0.2
0
−0.2
−0.4

pull1D
Entries 37
Mean 0.003189
Std Dev 0.1985
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

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 18.52 / 36
p0 7.021 ± 2.683
80
60
40
20
0
−20
−40
−60
−80
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 35.74
Std Dev 9.461
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean 0.1352
Std Dev 0.6945
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.76 / 36
p0 3.732 ± 3.224
80
60
40
20
0
−20
−40
−60
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 15.81
Std Dev 30.18
1
0.5
0
−0.5
−1

pull1D
Entries 37
Mean 0.01725
Std Dev 0.5635
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 21.28 / 36
p0 63 ± 2.631
140
120
100
80
60
40
20
0
−20
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 35.29
Std Dev 8.336
1.5
1
0.5
0
−0.5
−1
−1.5

pull1D
Entries 37
Mean −0.1617
Std Dev 0.7408
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.1 / 36
p0 −14.06 ± 5.673
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 101.9
Std Dev 89.56
1
0.5
0
−0.5
−1

pull1D
Entries 37
Mean 0.008293
Std Dev 0.5478
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 29.92 / 36
p0 6.001 ± 0.183
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −97.26
Std Dev 116.8

pull1D
Entries 37
Mean 0.05193
Std Dev 0.8977

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 6.979 / 36
p0 −100.5 ± 9.46
100
50
0
−50
−100
−150
−200
−250
−300
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −14.25
Std Dev 35.35
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

pull1D
Entries 37
Mean 0.04999
Std Dev 0.4314
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 1.417 / 36
p0 46.75 ± 11.16
pull
Entries 37
Mean 38.42
Std Dev 10.86

pull1D
Entries 37
Mean 0.01362
Std Dev 0.1953

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.136 / 36
p0 112.8 ± 9.286
250
200
150
100
50
0
−50
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 6.183
Std Dev 12.94
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

pull1D
Entries 37
Mean −0.08425
Std Dev 0.431
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 1.426 / 36
p0 −24.19 ± 19.04
300
200
100
0
−100
−200
−300
−400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −33.04
Std Dev 53.32
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

pull1D
Entries 37
Mean −0.01565
Std Dev 0.1957
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 186.7 / 36
p0 −142.1 ± 0.6054
−125
−130
−135
−140
−145
−150
−155
−160
−165
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 8.922
Std Dev 13.04
6
4
2
0
−2
−4
−6

pull1D
Entries 37
Mean −0.172
Std Dev 2.24
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 24.57 / 36
p0 13.77 ± 2.602
100
80
60
40
20
0
−20
−40
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −0.256
Std Dev 20.5
2
1.5
1
0.5
0
−0.5
−1

pull1D
Entries 37
Mean −0.07734
Std Dev 0.8113
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.21 / 36
p0 −5.923 ± 3.113
pull
Entries 37
Mean 39.15
Std Dev 9.774

pull1D
Entries 37
Mean −0.04149
Std Dev 0.6183

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.18 / 36
p0 −45.79 ± 2.552
pull
Entries 37
Mean 17.81
Std Dev 9.68

pull1D
Entries 37
Mean 0.158
Std Dev 0.8097

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ2 / ndf 12.97 / 36
p0 10.51 ± 5.448
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 34.97
Std Dev 19.11
1.5
1
0.5
0
−0.5
−1

pull1D
Entries 37
Mean 0.006406
Std Dev 0.592
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 264.5 / 36
p0 18.29 ± 0.1754
28
26
24
22
20
18
16
14
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −61.71
Std Dev 85.26
10
8
6
4
2
0
−2

pull1D
Entries 37
Mean −0.719
Std Dev 1.423
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 329 / 36
p0 11.91 ± 0.3704
pull
Entries 37
Mean 24.03
Std Dev 9.056

pull1D
Entries 37
Mean 1.409
Std Dev 1.185

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 46.28 / 36
p0 −2.519 ± 0.4431
pull
Entries 37
Mean 86.48
Std Dev 66.75

pull1D
Entries 37
Mean −0.07472
Std Dev 1.116

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 396.2 / 36
p0 −11.37 ± 0.3632
0
−5
−10
−15
−20
−25
−30
−35
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 22.15
Std Dev 9.493
15
10
5
0
−5

pull1D
Entries 37
Mean −1.677
Std Dev 1.188
9
8
7
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 42.87 / 36
p0 4.14 ± 0.7704
pull
Entries 37
Mean 1869
Std Dev 1851

pull1D
Entries 37
Mean 0.002391
Std Dev 1.076

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 157.7 / 36
p0 0.6125 ± 0.0247
pull
Entries 37
Mean −3.743
Std Dev 24.85

pull1D
Entries 37
Mean 0.3249
Std Dev 2.038

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 335.5 / 36
p0 11.99 ± 0.3691
35
30
25
20
15
10
5
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 24.24
Std Dev 8.961
5
0
−5
−10
−15

pull1D
Entries 37
Mean 1.429
Std Dev 1.185
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 47.46 / 36
p0 −2.733 ± 0.4415
pull
Entries 37
Mean 87.14
Std Dev 67.22

pull1D
Entries 37
Mean −0.07936
Std Dev 1.13

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 403.8 / 36
p0 −11.44 ± 0.3619
0
−5
−10
−15
−20
−25
−30
−35
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 22.33
Std Dev 9.453
15
10
5
0
−5

pull1D
Entries 37
Mean −1.699
Std Dev 1.183
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 43.35 / 36
p0 4.532 ± 0.7675
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 1.46e+04
Std Dev 1.458e+04

pull1D
Entries 37
Mean 0.0003208
Std Dev 1.082

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 158.8 / 36
p0 0.6183 ± 0.0246
pull
Entries 37
Mean −3.166
Std Dev 24.28
pull1D
Entries 37
Mean 0.3289
Std Dev 2.046

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 334.3 / 36
p0 12.04 ± 0.3701
35
30
25
20
15
10
5
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 24.16
Std Dev 9.139
5
0
−5
−10
−15

pull1D
Entries 37
Mean 1.426
Std Dev 1.176
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 47.57 / 36
p0 −2.76 ± 0.4426
pull
Entries 37
Mean 85.83
Std Dev 65.72

pull1D
Entries 37
Mean −0.08109
Std Dev 1.131

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 403.3 / 36
p0 −11.52 ± 0.3629
0
−5
−10
−15
−20
−25
−30
−35
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 22.26
Std Dev 9.572
15
10
5
0
−5

pull1D
Entries 37
Mean −1.697
Std Dev 1.176
8
7
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 43.18 / 36
p0 4.566 ± 0.7692
pull
Entries 37
Mean −1.066e+04
Std Dev 1.068e+04

pull1D
Entries 37
Mean −0.0004354
Std Dev 1.08

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 155.5 / 36
p0 0.6202 ± 0.02466
pull
Entries 37
Mean −3.846
Std Dev 24.82

pull1D
Entries 37
Mean 0.3245
Std Dev 2.024

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 320.9 / 36
p0 11.83 ± 0.3714
35
30
25
20
15
10
5
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 23.88
Std Dev 9.092
5
0
−5
−10
−15

pull1D
Entries 37
Mean 1.39
Std Dev 1.175
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 47.73 / 36
p0 −2.616 ± 0.4443
pull
Entries 37
Mean 77.74
Std Dev 57.27

pull1D
Entries 37
Mean −0.08318
Std Dev 1.133

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 387 / 36
p0 −11.32 ± 0.3641
0
−5
−10
−15
−20
−25
−30
−35
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 22.03
Std Dev 9.484
15
10
5
0
−5

pull1D
Entries 37
Mean −1.656
Std Dev 1.178
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 44.12 / 36
p0 4.273 ± 0.7723
pull
Entries 37
Mean 443.6
Std Dev 424.4

pull1D
Entries 37
Mean 0.009982
Std Dev 1.092

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 152.3 / 36
p0 0.6123 ± 0.02475
pull
Entries 37
Mean −4.276
Std Dev 25.38

pull1D
Entries 37
Mean 0.3191
Std Dev 2.003

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 309.7 / 36
p0 11.8 ± 0.3741
pull
Entries 37
Mean 23.64
Std Dev 8.989

pull1D
Entries 37
Mean 1.358
Std Dev 1.166

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 45.9 / 36
p0 −2.532 ± 0.4475
pull
Entries 37
Mean 86.65
Std Dev 66.99

pull1D
Entries 37
Mean −0.07227
Std Dev 1.111

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 374.9 / 36
p0 −11.25 ± 0.3667
0
−5
−10
−15
−20
−25
−30
−35
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 21.76
Std Dev 9.389
15
10
5
0
−5

pull1D
Entries 37
Mean −1.622
Std Dev 1.175
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 42.56 / 36
p0 4.124 ± 0.7779
pull
Entries 37
Mean 568.1
Std Dev 549.6

pull1D
Entries 37
Mean 0.007782
Std Dev 1.073

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 145.3 / 36
p0 0.6089 ± 0.02494
pull
Entries 37
Mean −4.27
Std Dev 25.56

pull1D
Entries 37
Mean 0.3064
Std Dev 1.958