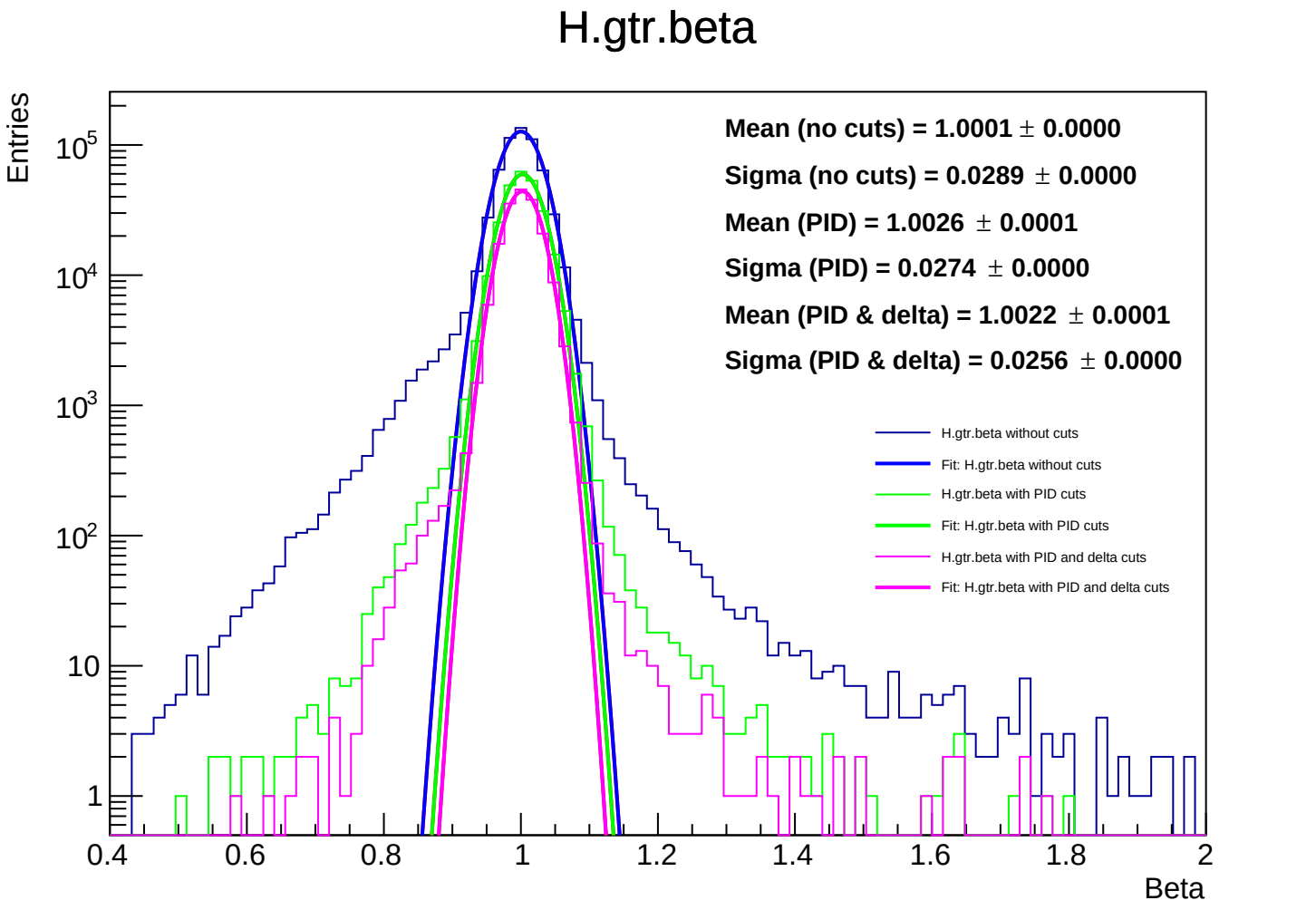
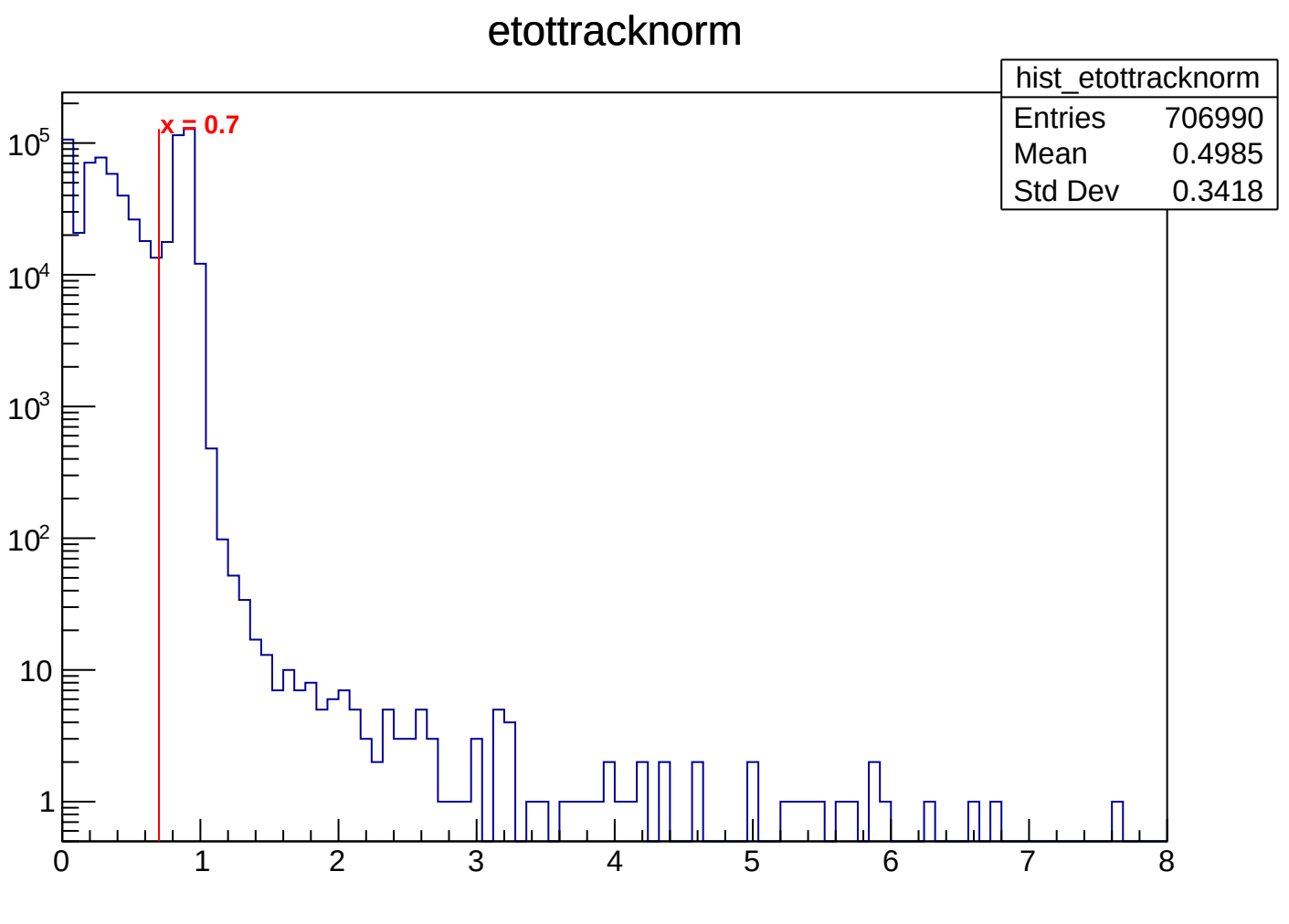
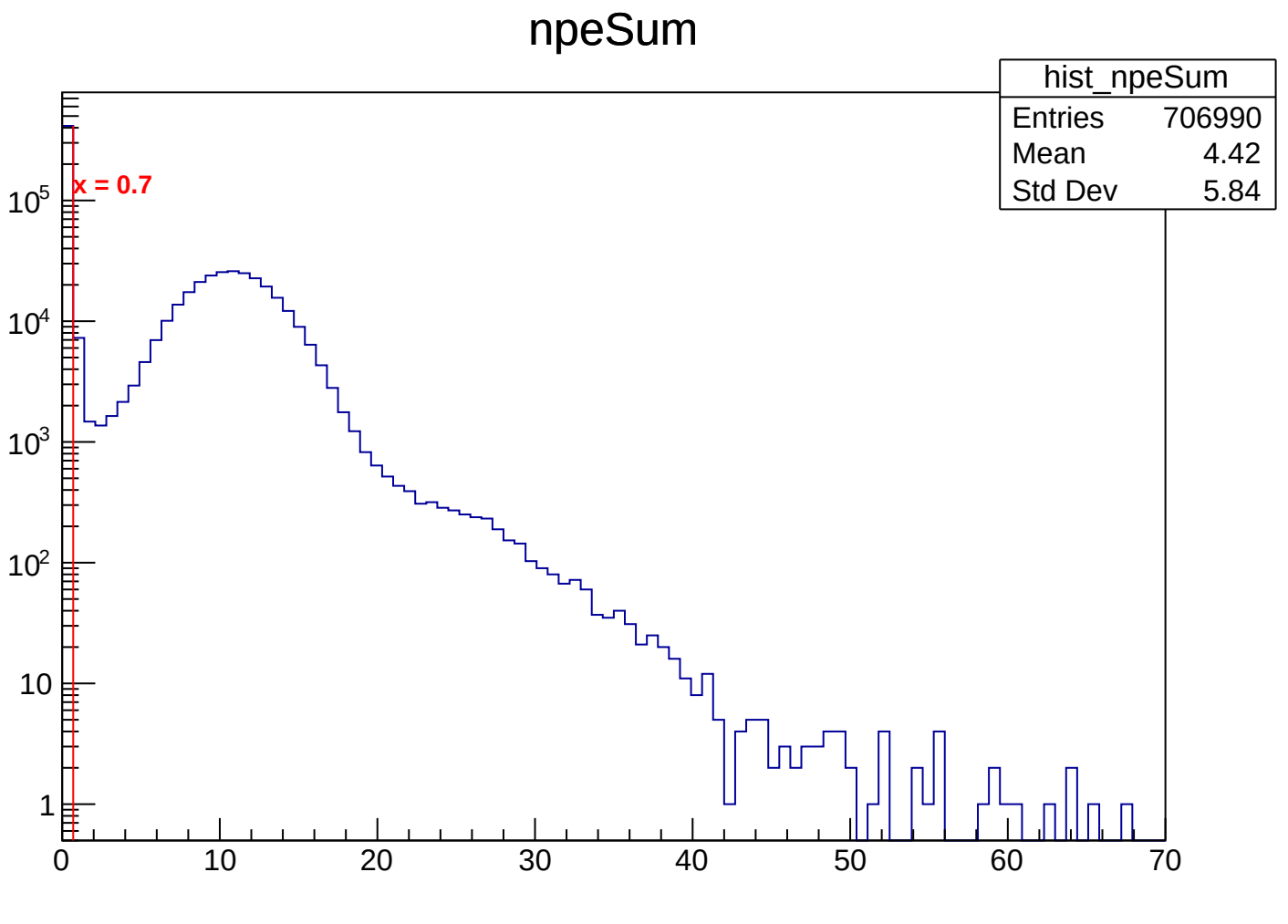
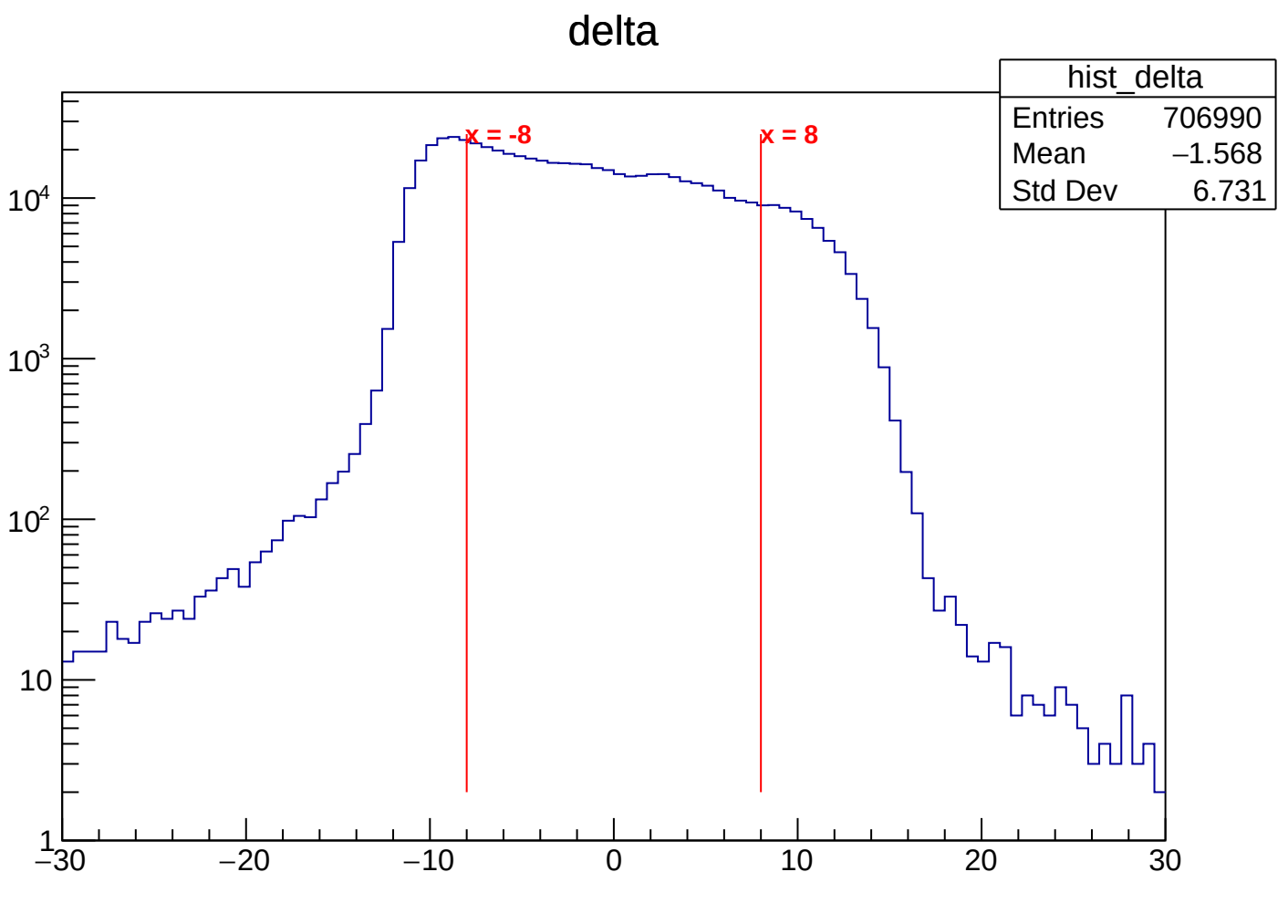
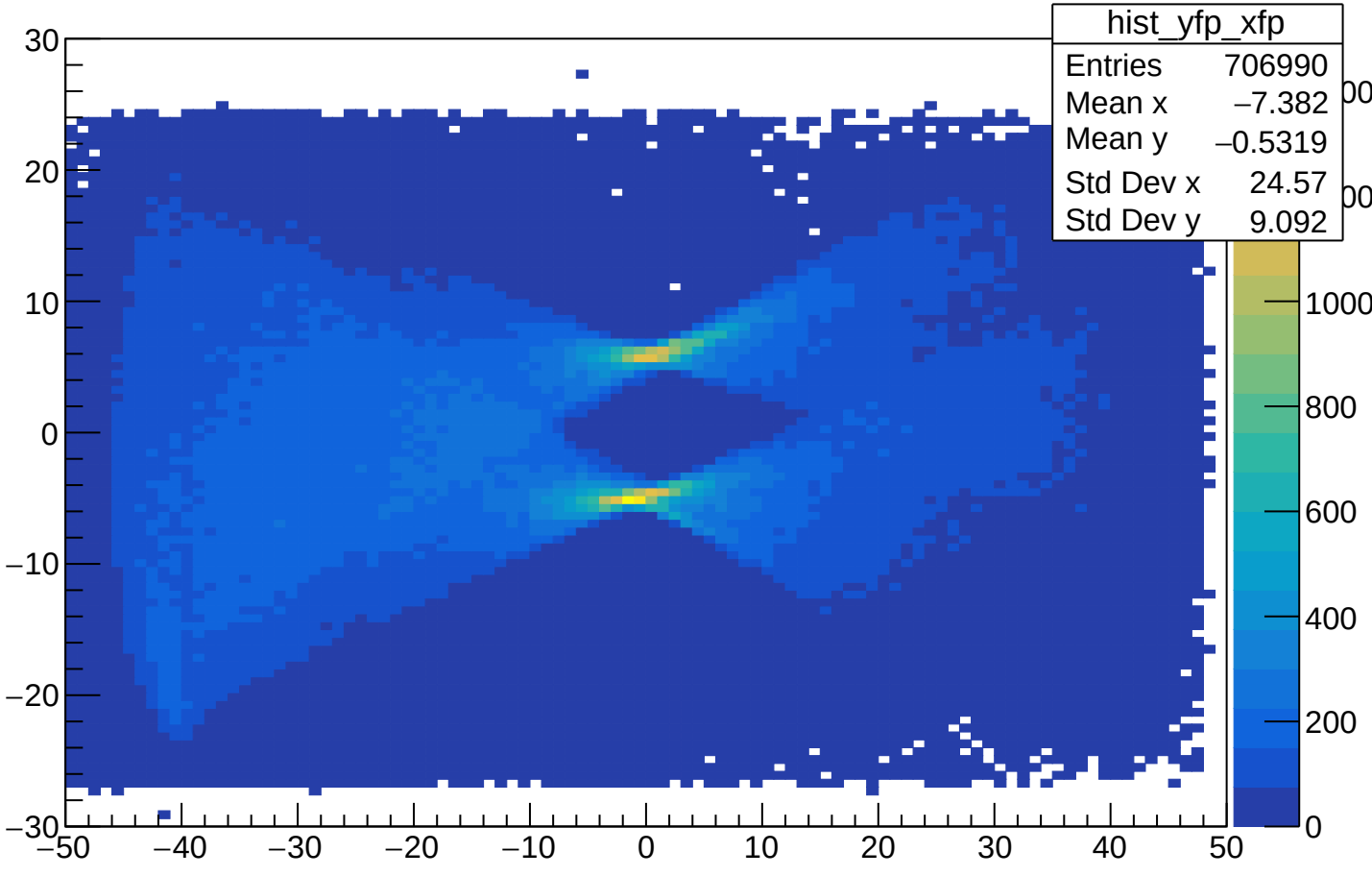
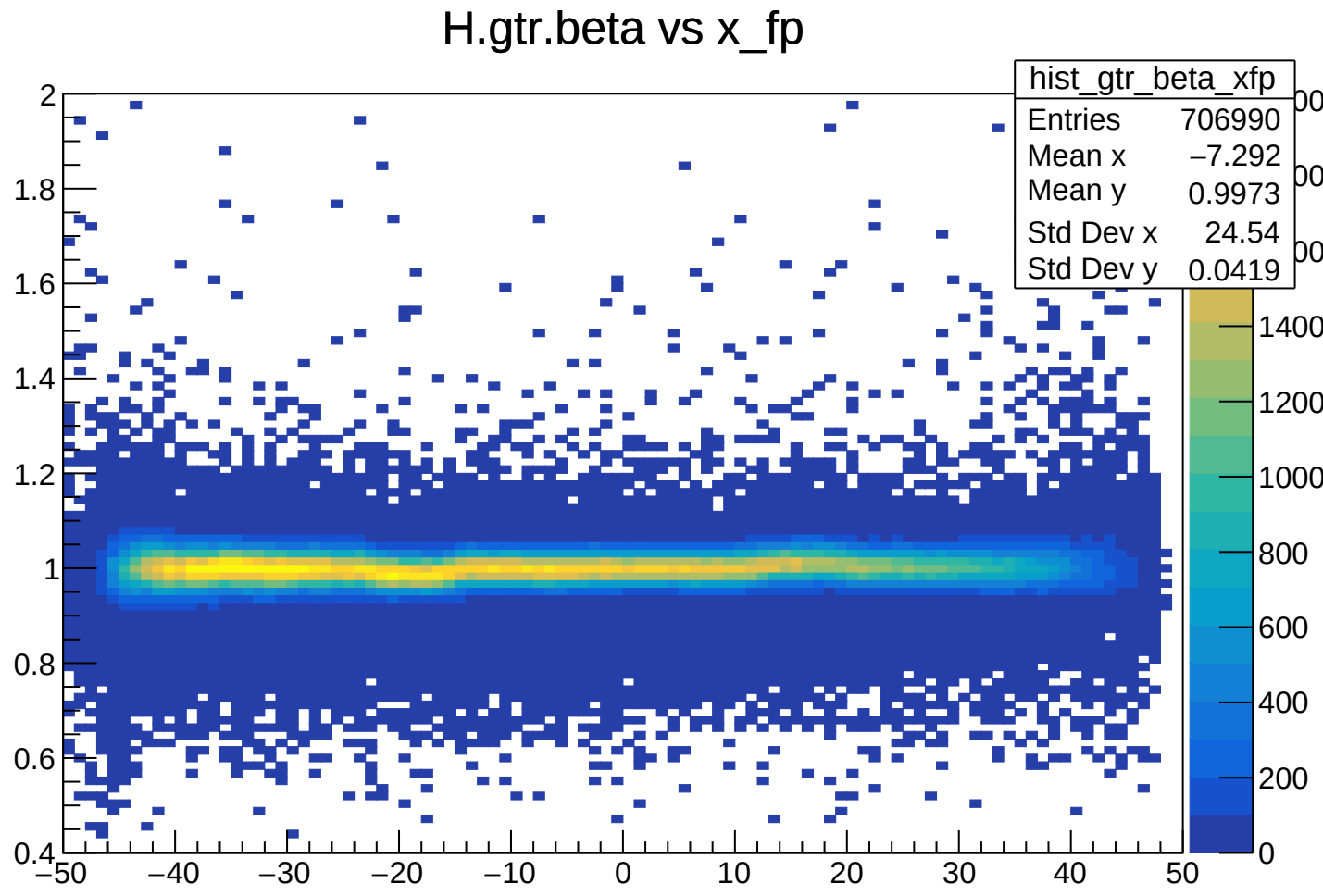

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0001 ± 0.0000
Sigma (no cuts) = 0.0289 ± 0.0000
Mean (PID) = 1.0026 ± 0.0001
Sigma (PID) = 0.0274 ± 0.0000
Mean (PID & delta) = 1.0022 ± 0.0001
Sigma (PID & delta) = 0.0256 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

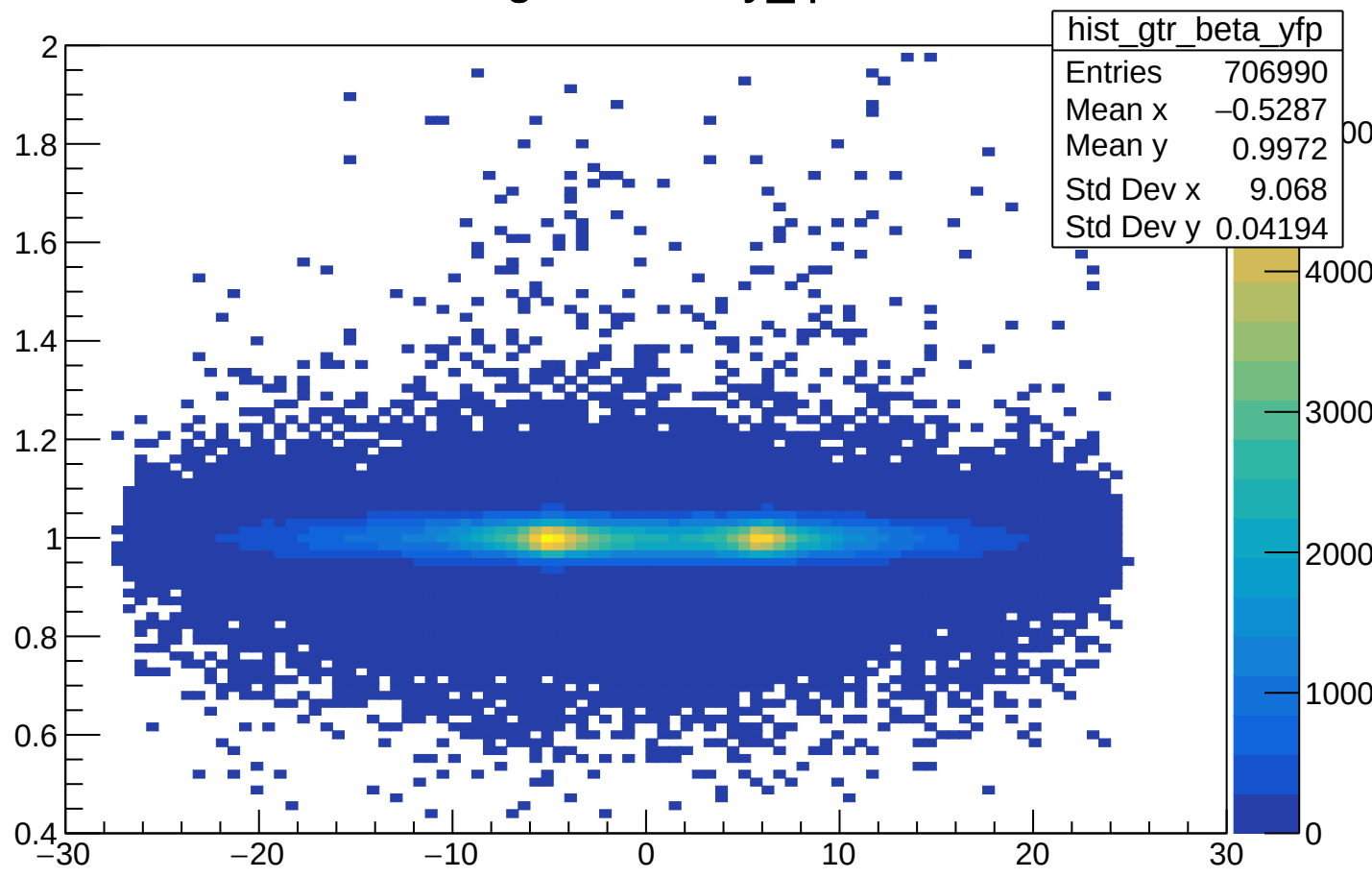

etottracknorm
hist_etottracknorm
Entries 706990
Mean 0.4985
Std Dev 0.3418
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

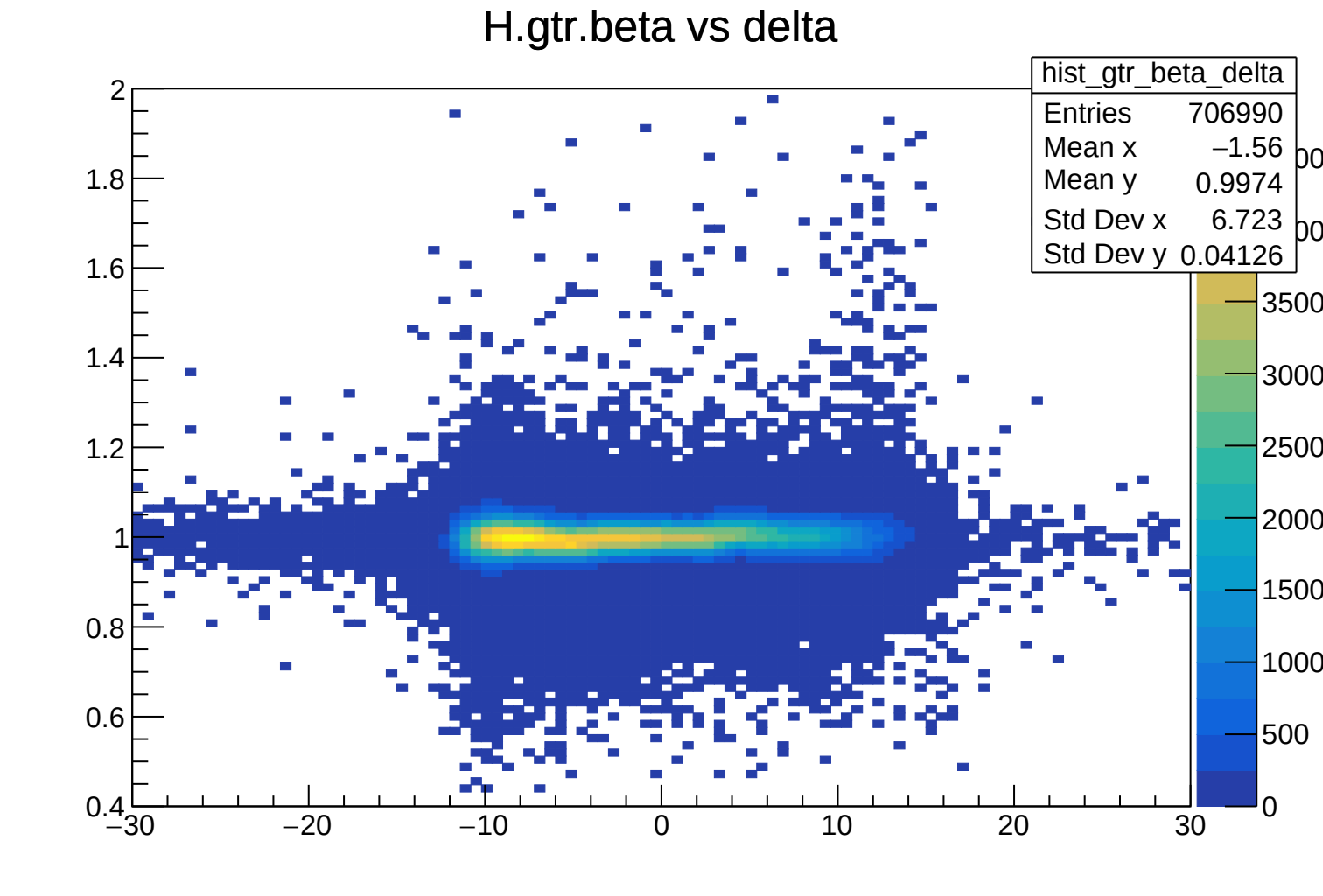

npeSum
hist_npeSum
Entries 706990
Mean 4.42
Std Dev 5.84
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

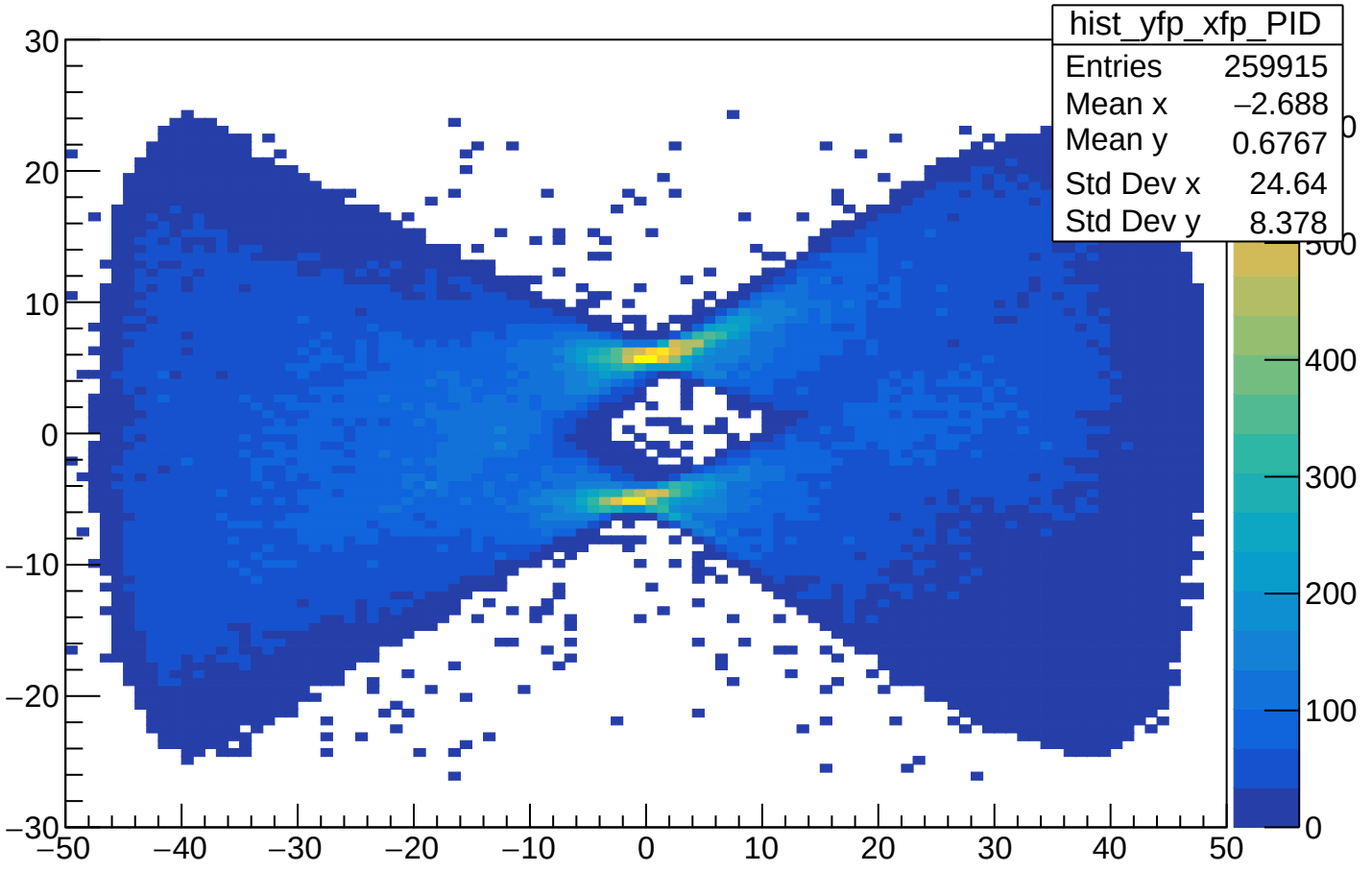

delta
hist_delta
Entries 706990
Mean –1.568
Std Dev 6.731
x = -8
x = 8
10^4
10^3
10^2
10
1
–30
–20
–10
0
10
20
30

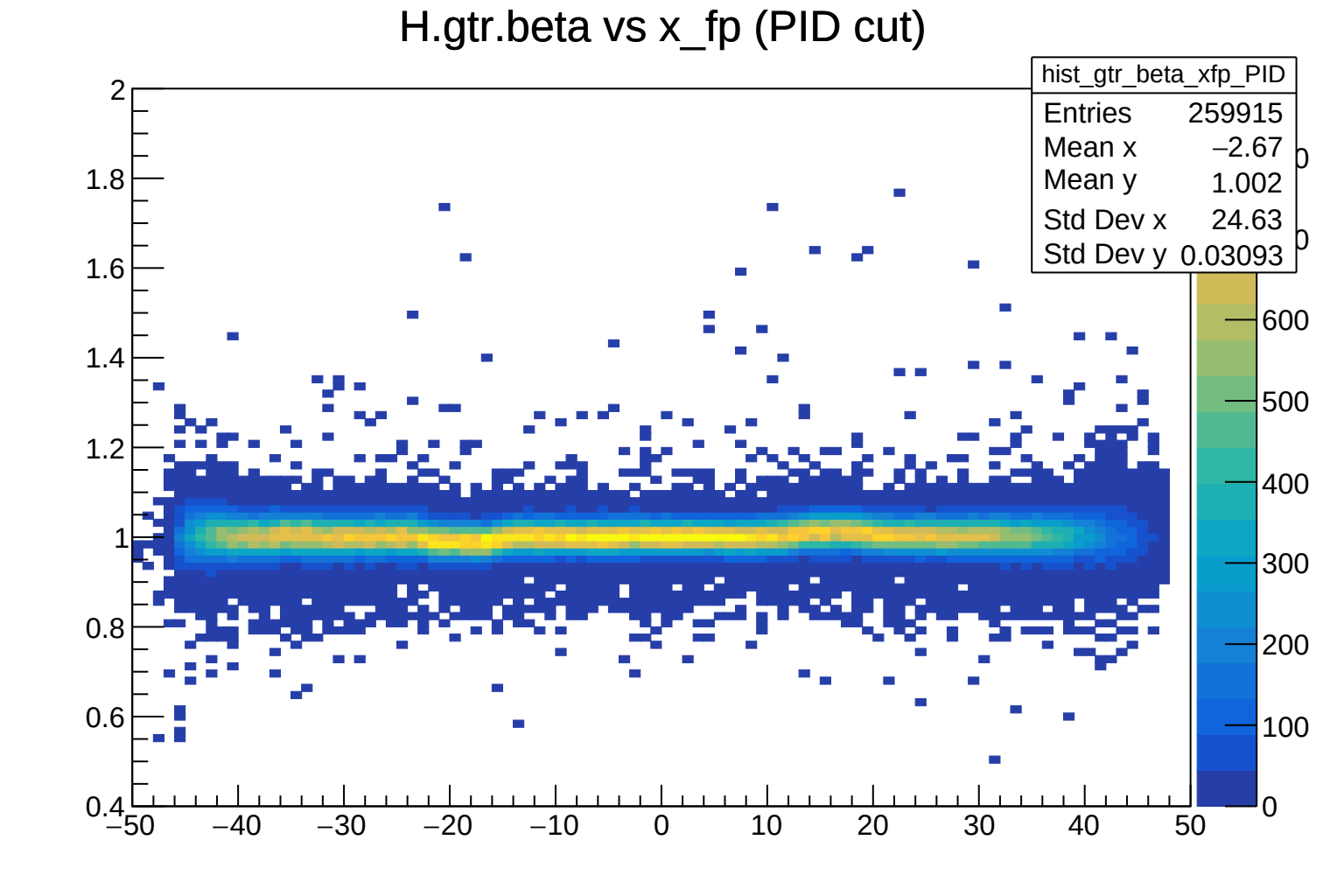

focal plane
hist_yfp_xfp
Entries 706990
Mean x −7.382
Mean y −0.5319
Std Dev x 24.57
Std Dev y 9.092
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
1000
800
600
400
200
0

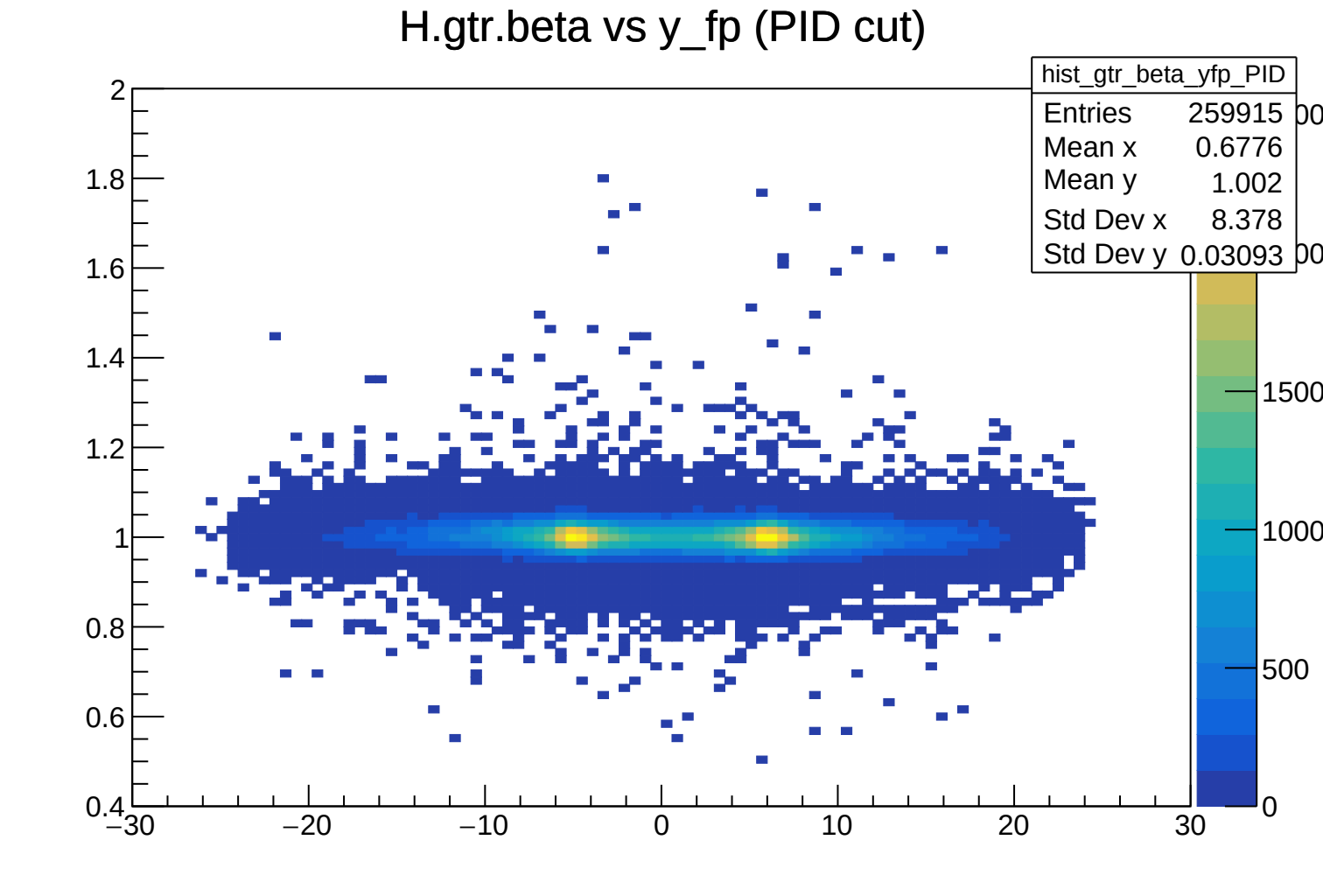

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 706990
Mean x −7.292
Mean y 0.9973
Std Dev x 24.54
Std Dev y 0.0419
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
1400
1200
1000
800
600
400
200
0

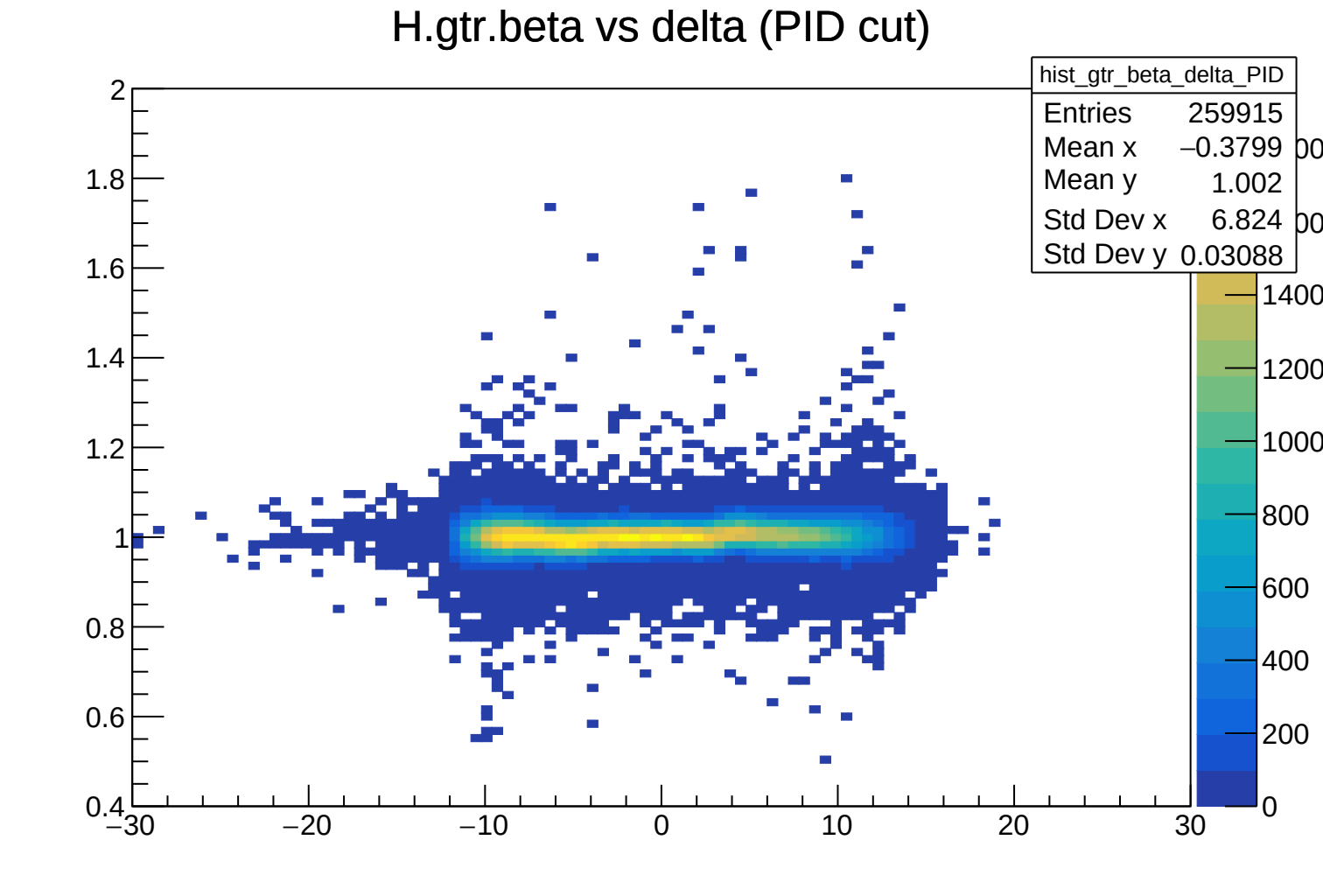

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 706990
Mean x −0.5287
Mean y 0.9972
Std Dev x 9.068
Std Dev y 0.04194
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
4000
3000
2000
1000
0

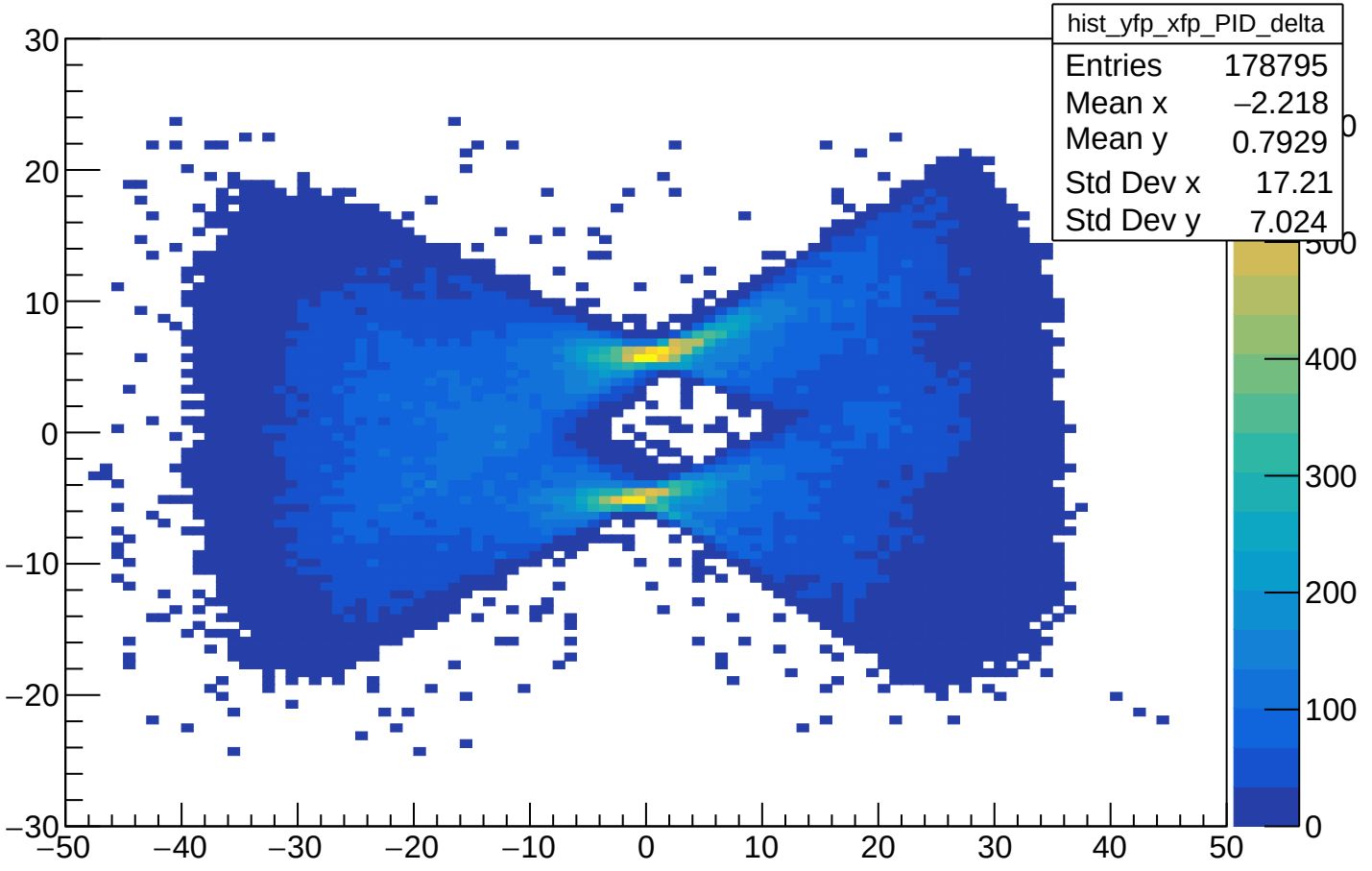

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 706990
Mean x −1.56
Mean y 0.9974
Std Dev x 6.723
Std Dev y 0.04126
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
3500
3000
2500
2000
1500
1000
500
0

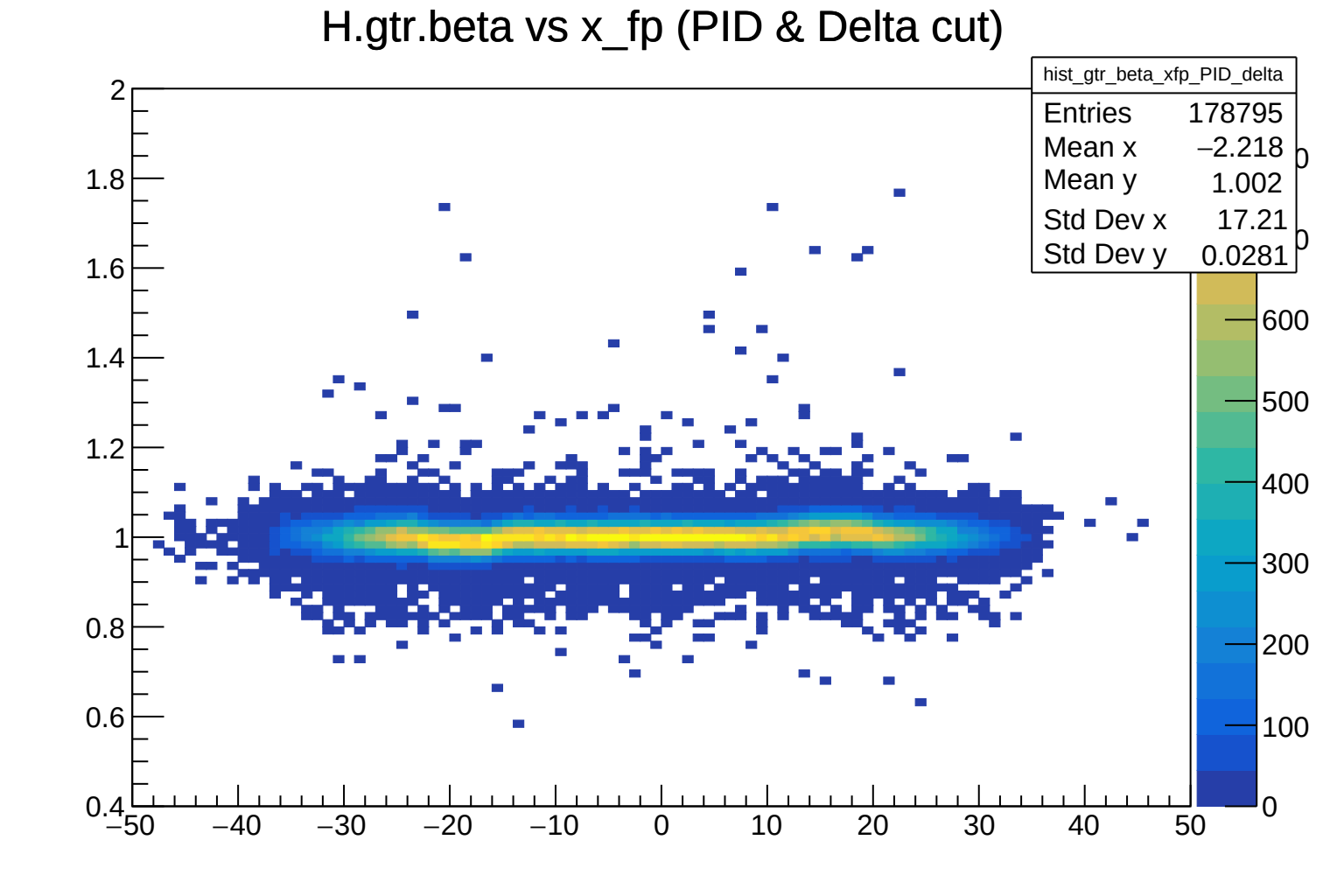

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 259915
Mean x −2.688
Mean y 0.6767
Std Dev x 24.64
Std Dev y 8.378
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
500
400
300
200
100
0

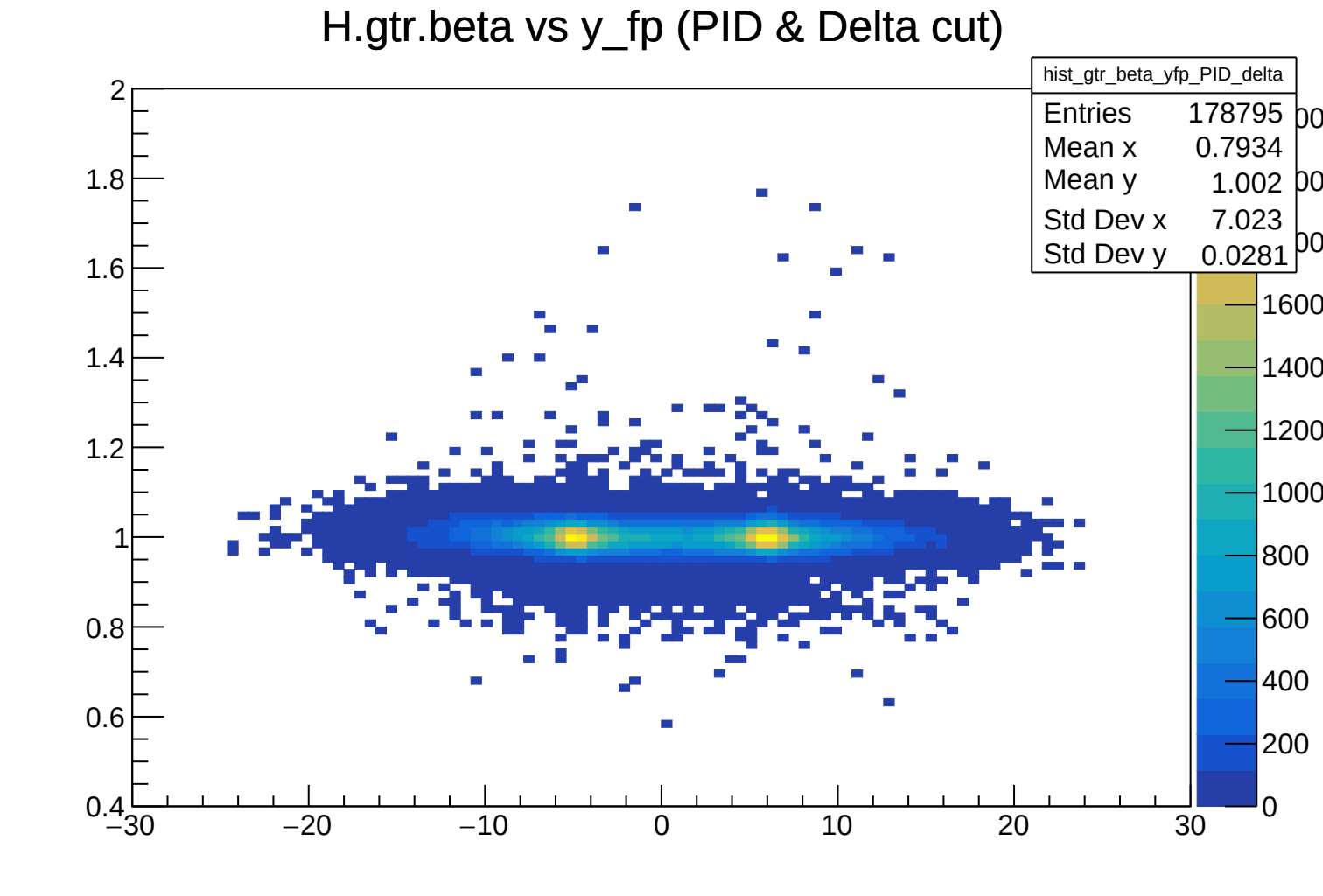

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 259915
Mean x −2.67
Mean y 1.002
Std Dev x 24.63
Std Dev y 0.03093
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
600
500
400
300
200
100
0

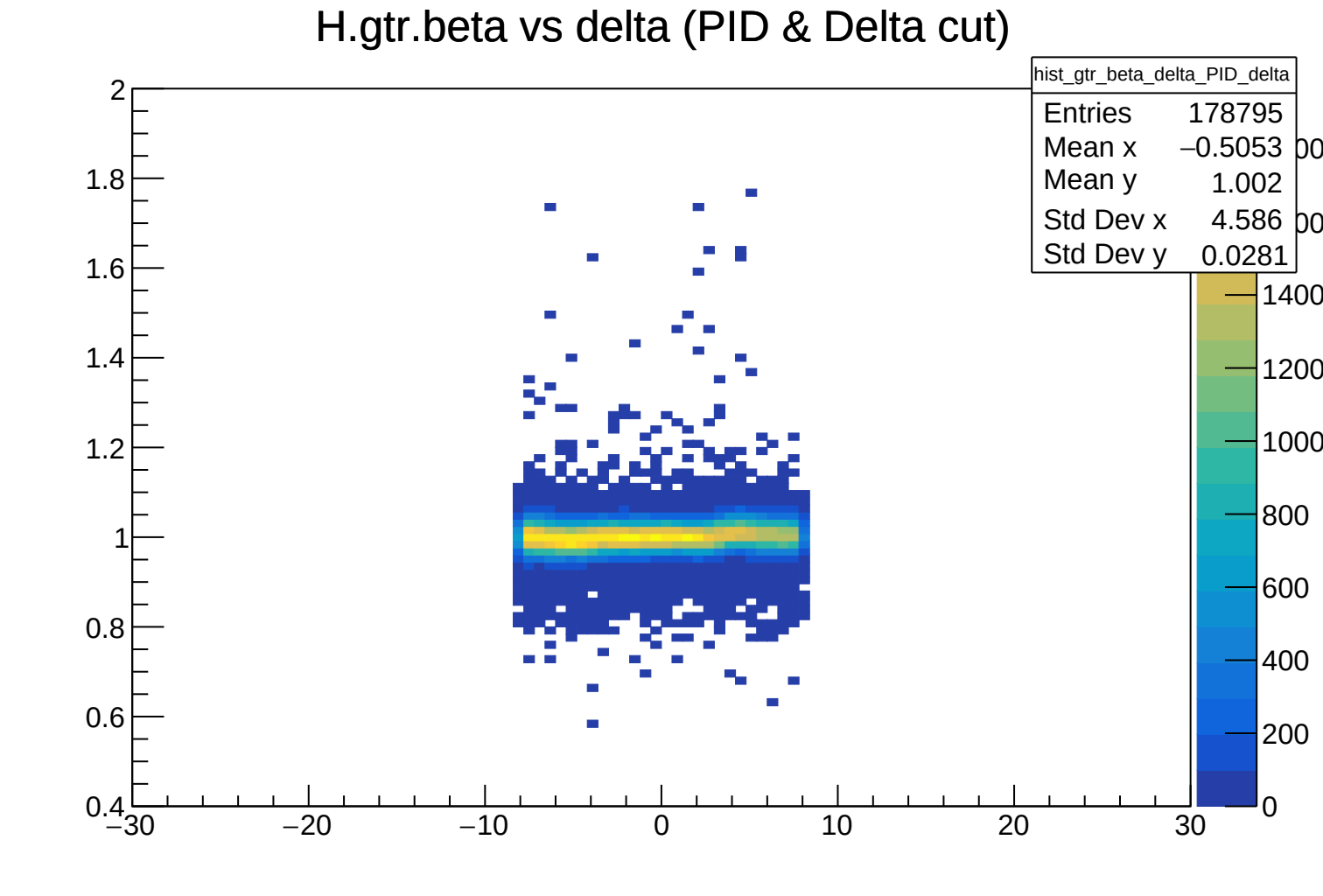

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 259915
Mean x 0.6776
Mean y 1.002
Std Dev x 8.378
Std Dev y 0.03093
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1500
1000
500
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 259915
Mean x −0.3799
Mean y 1.002
Std Dev x 6.824
Std Dev y 0.03088
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1400
1200
1000
800
600
400
200
0


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 178795
Mean x −2.218
Mean y 0.7929
Std Dev x 17.21
Std Dev y 7.024
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
500
400
300
200
100
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 178795
Mean x −2.218
Mean y 1.002
Std Dev x 17.21
Std Dev y 0.0281
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
600
500
400
300
200
100
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 178795
Mean x 0.7934
Mean y 1.002
Std Dev x 7.023
Std Dev y 0.0281
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1600
1400
1200
1000
800
600
400
200
0


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 178795
Mean x −0.5053
Mean y 1.002
Std Dev x 4.586
Std Dev y 0.0281
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1400
1200
1000
800
600
400
200
0