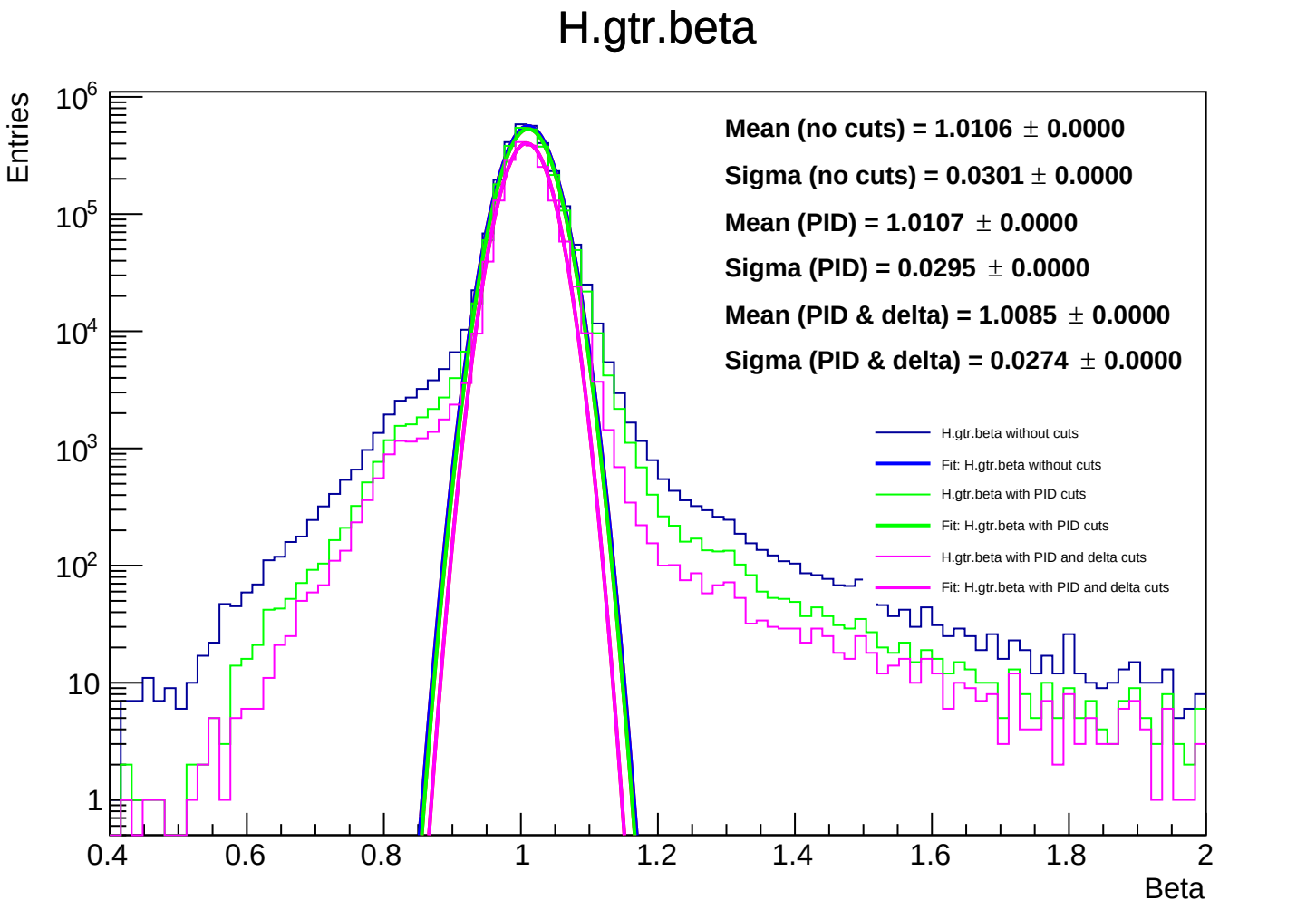
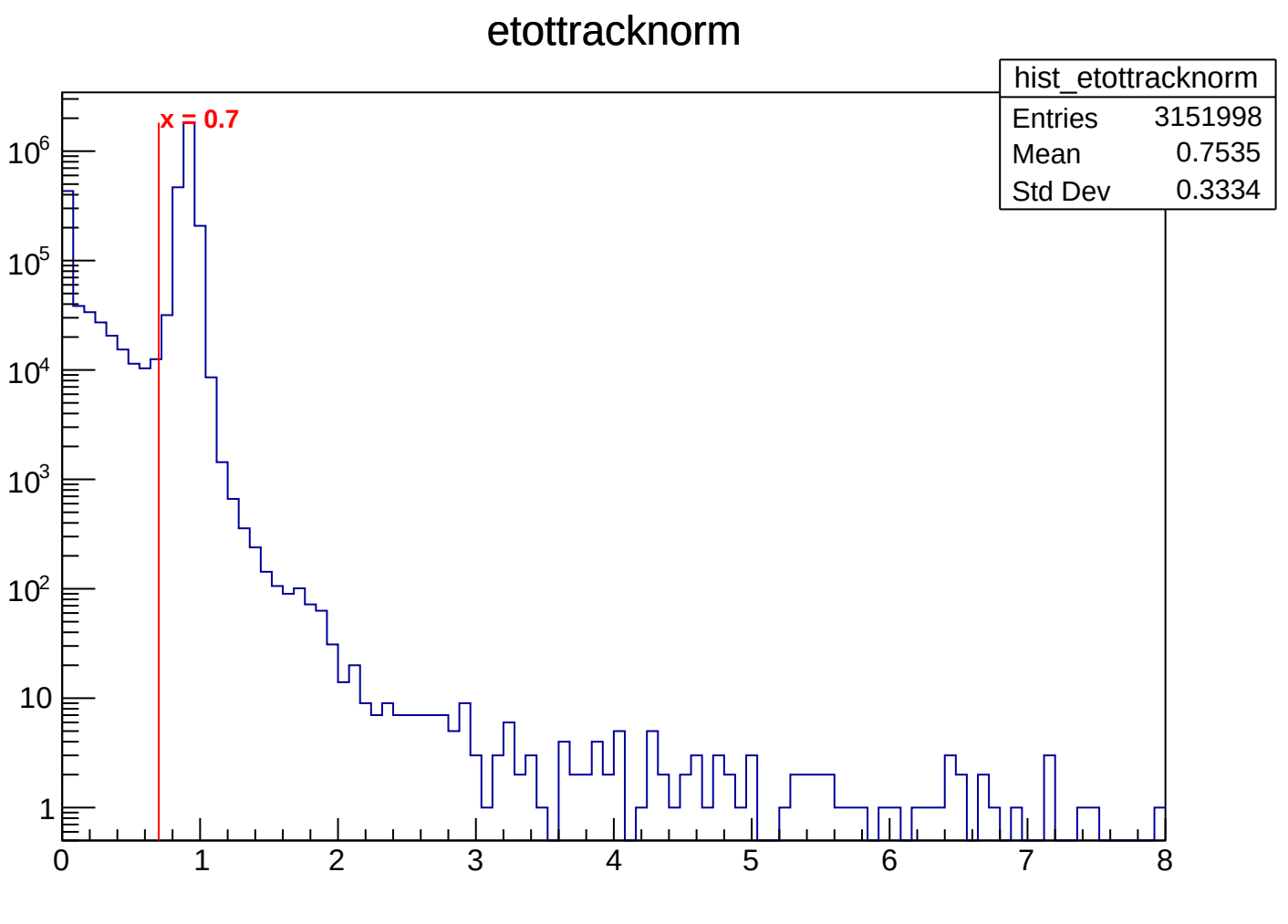
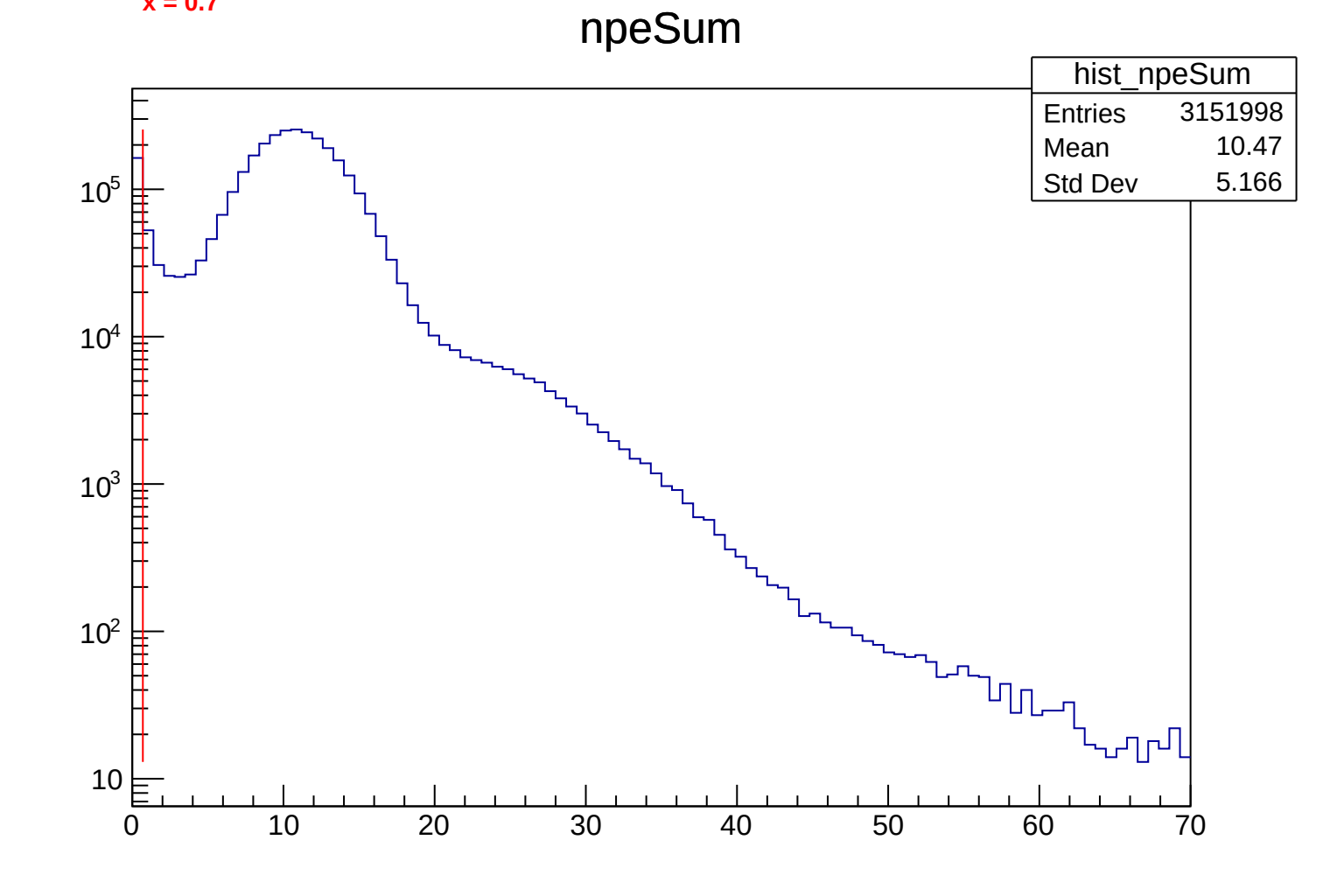
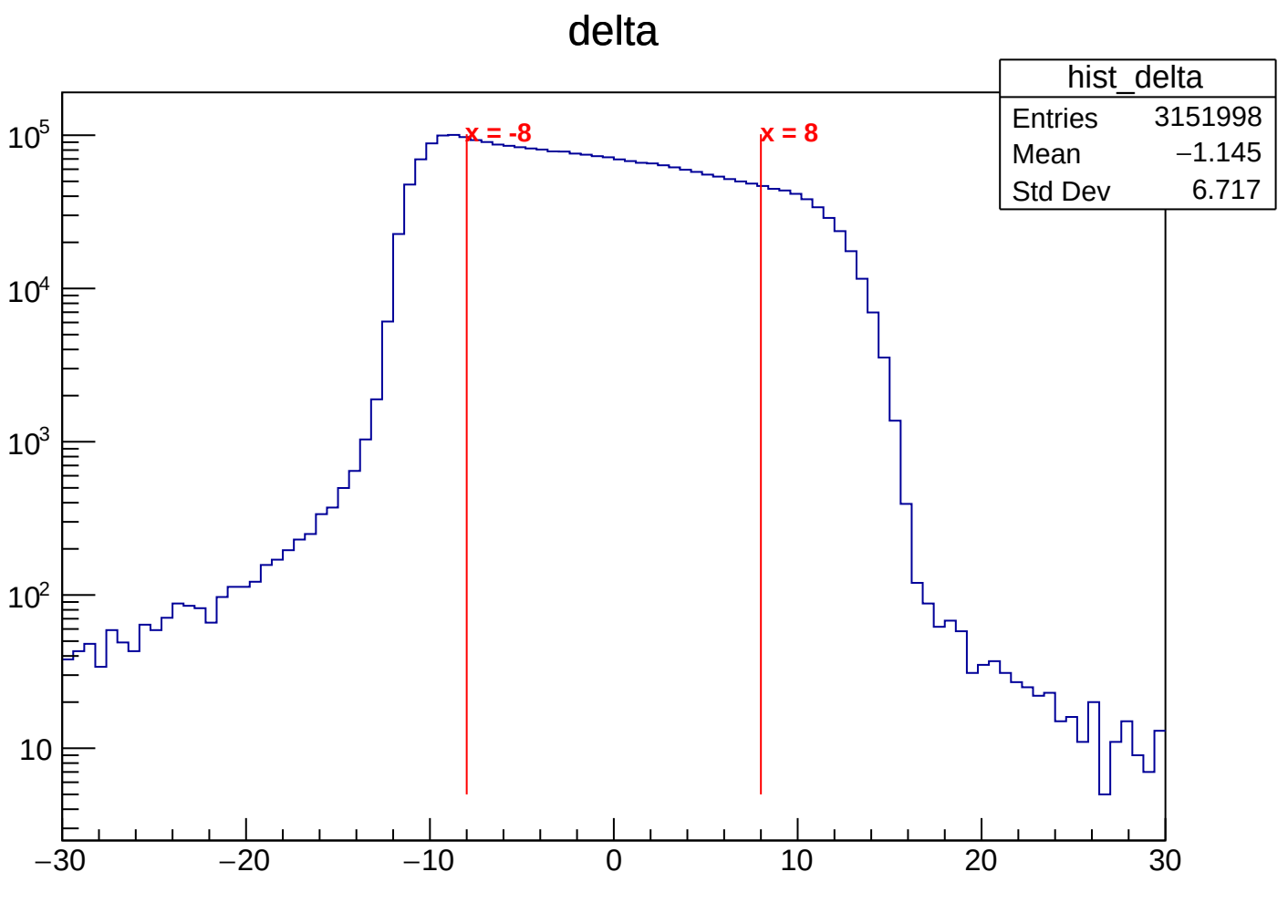
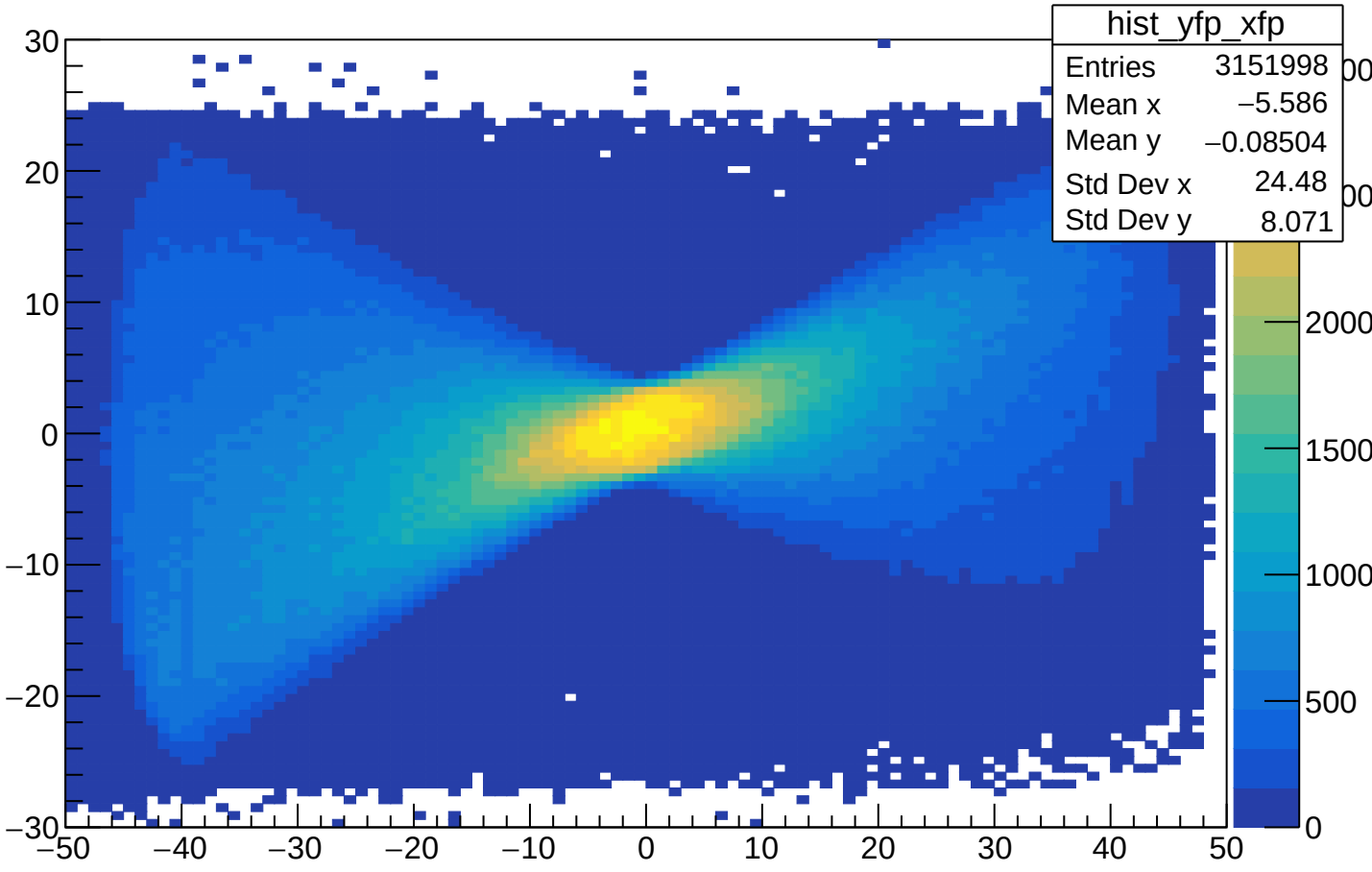
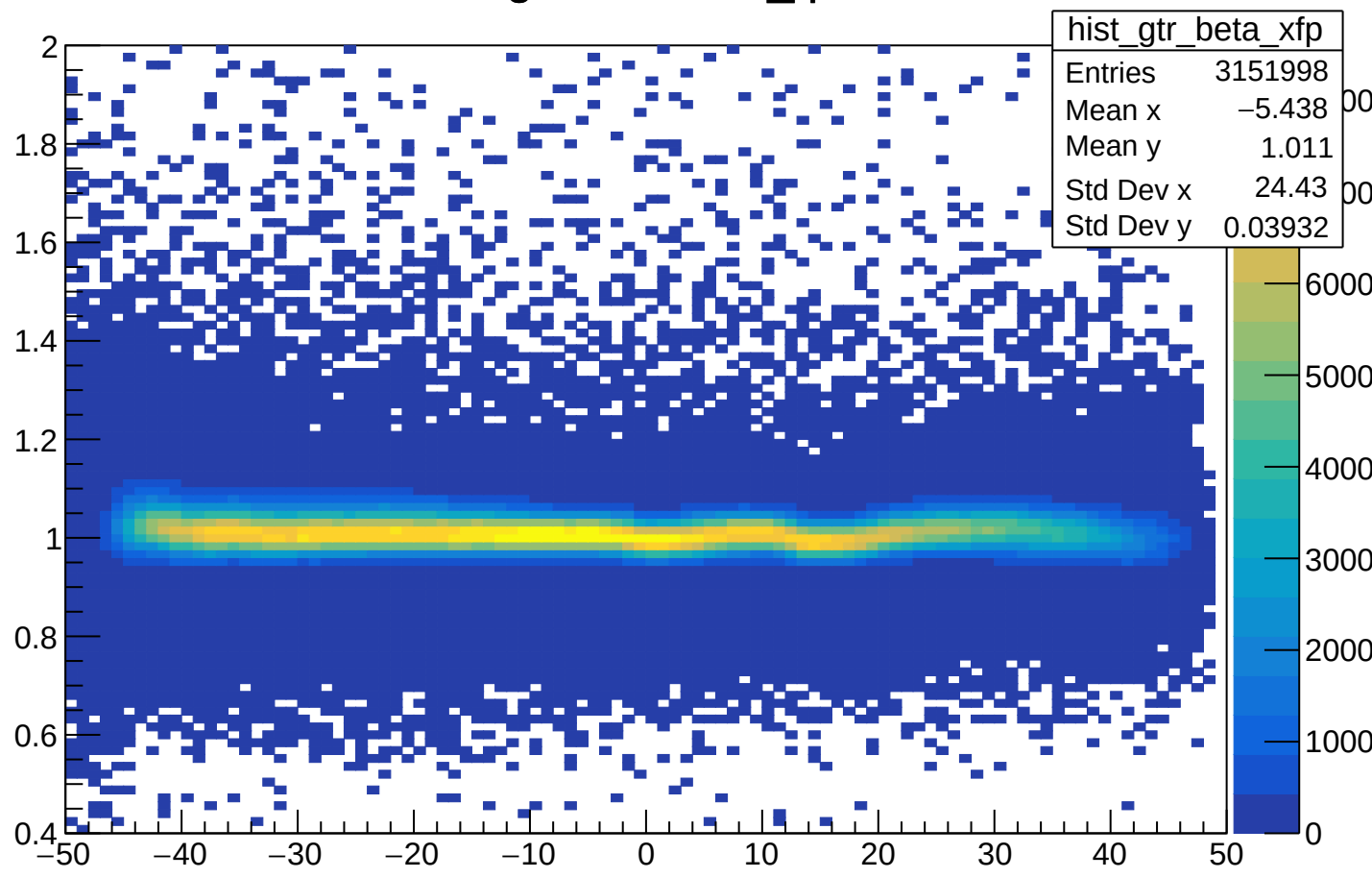

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0106 ± 0.0000
Sigma (no cuts) = 0.0301 ± 0.0000
Mean (PID) = 1.0107 ± 0.0000
Sigma (PID) = 0.0295 ± 0.0000
Mean (PID & delta) = 1.0085 ± 0.0000
Sigma (PID & delta) = 0.0274 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

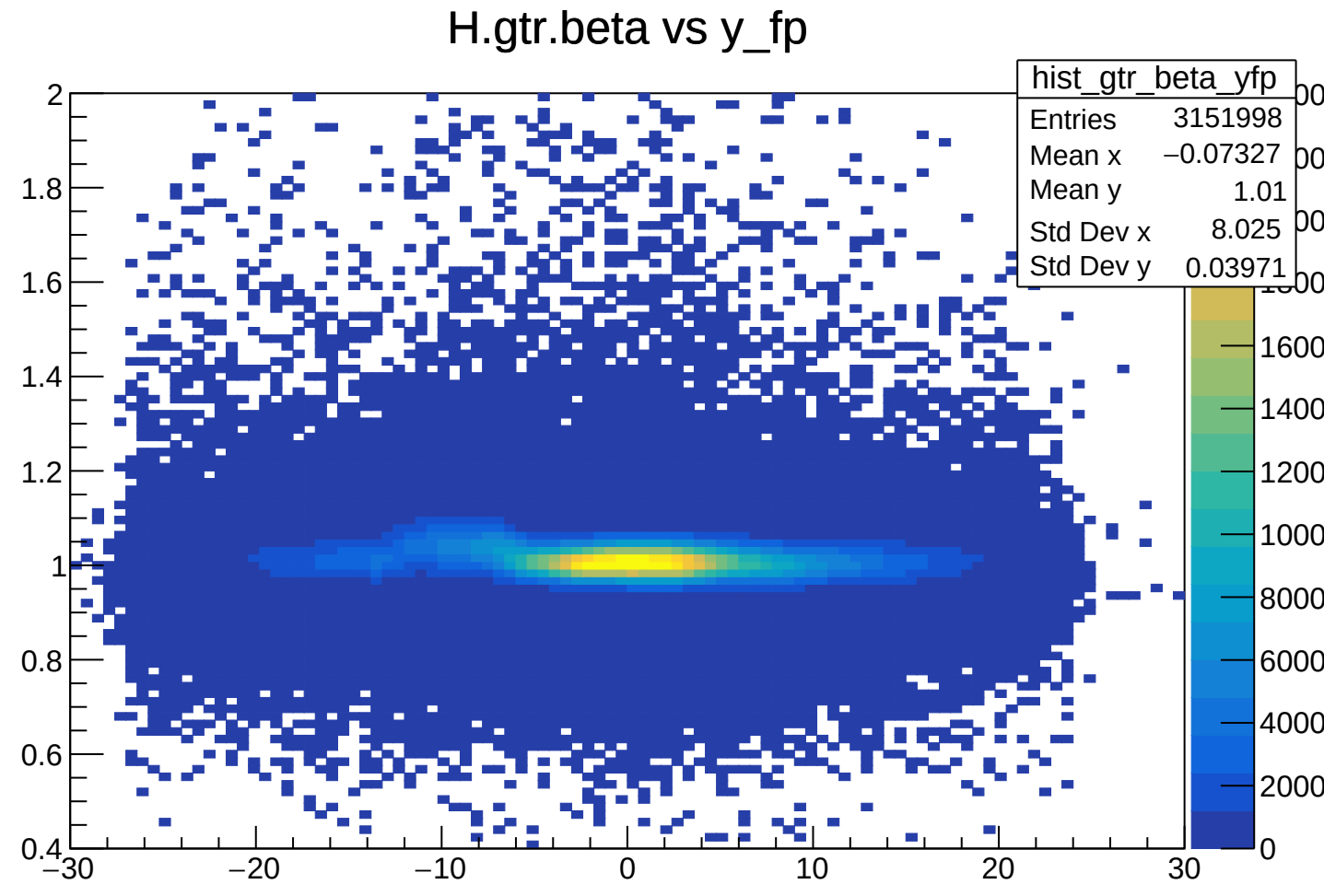

etottracknorm
hist_etottracknorm
Entries 3151998
Mean 0.7535
Std Dev 0.3334
x = 0.7
10^6
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

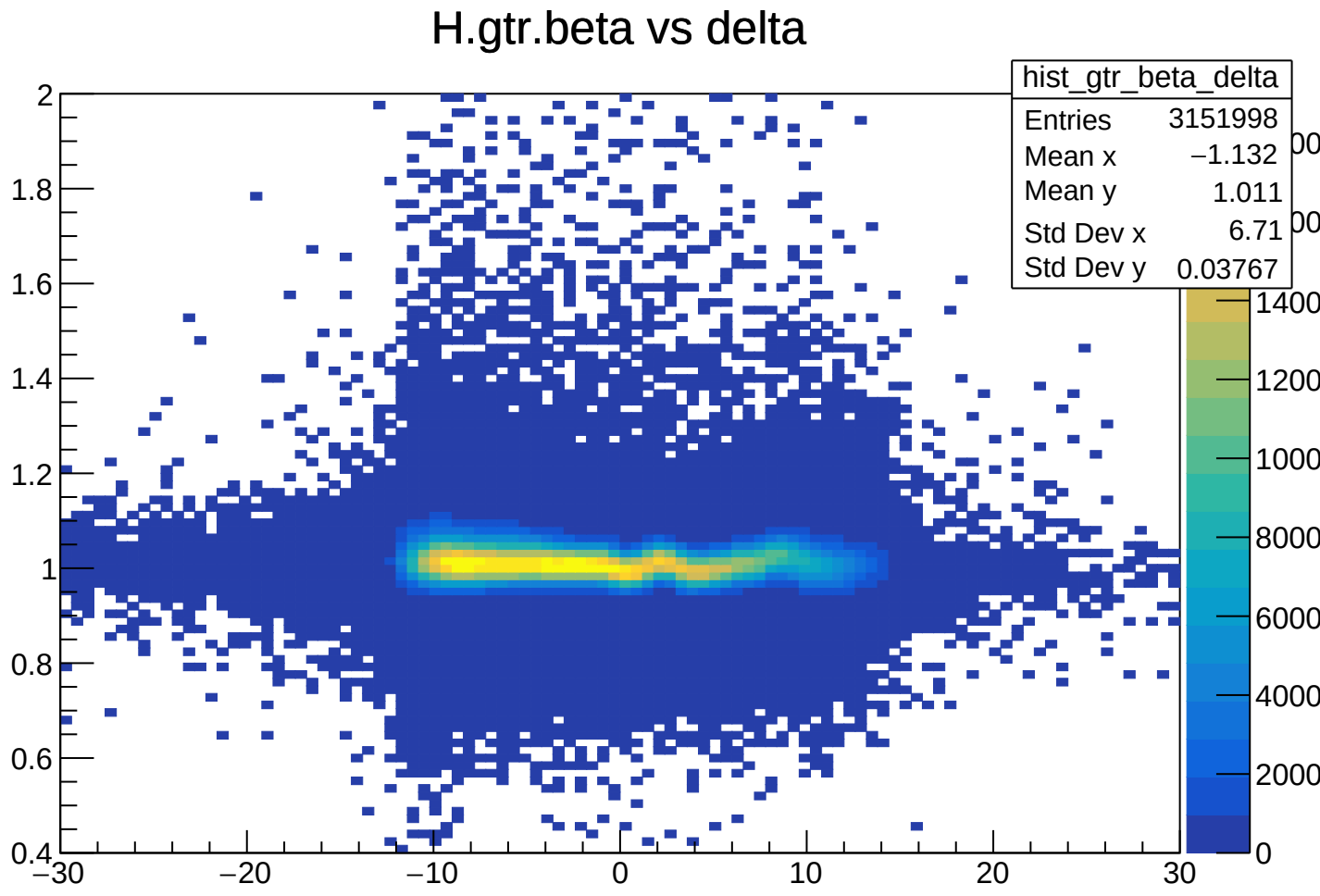

x = 0.7
npeSum
hist_npeSum
Entries 3151998
Mean 10.47
Std Dev 5.166
10^5
10^4
10^3
10^2
10
0
10
20
30
40
50
60
70

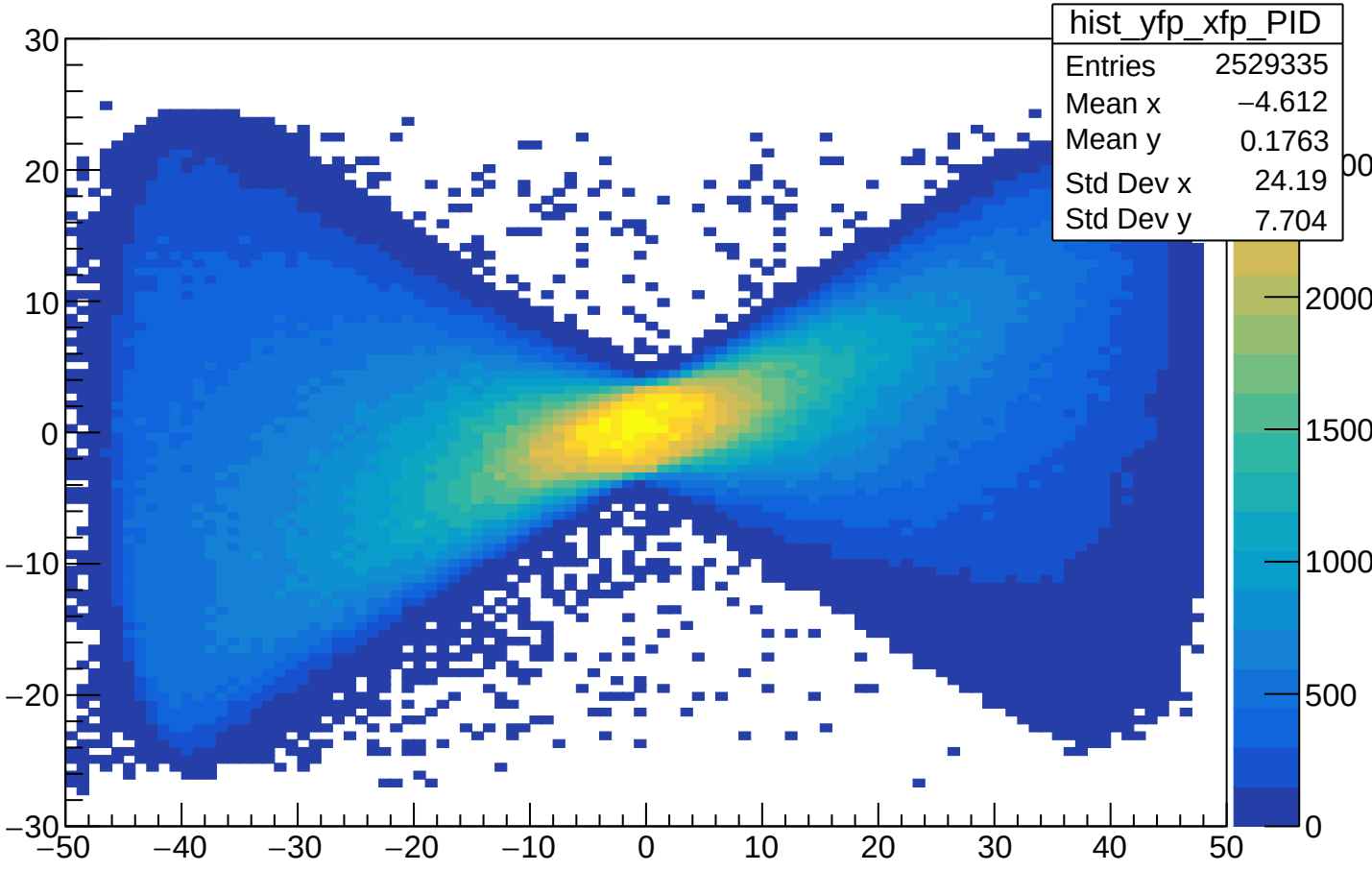

delta
hist_delta
Entries 3151998
Mean −1.145
Std Dev 6.717
x = -8
x = 8
10^5
10^4
10^3
10^2
10
−30
−20
−10
0
10
20
30

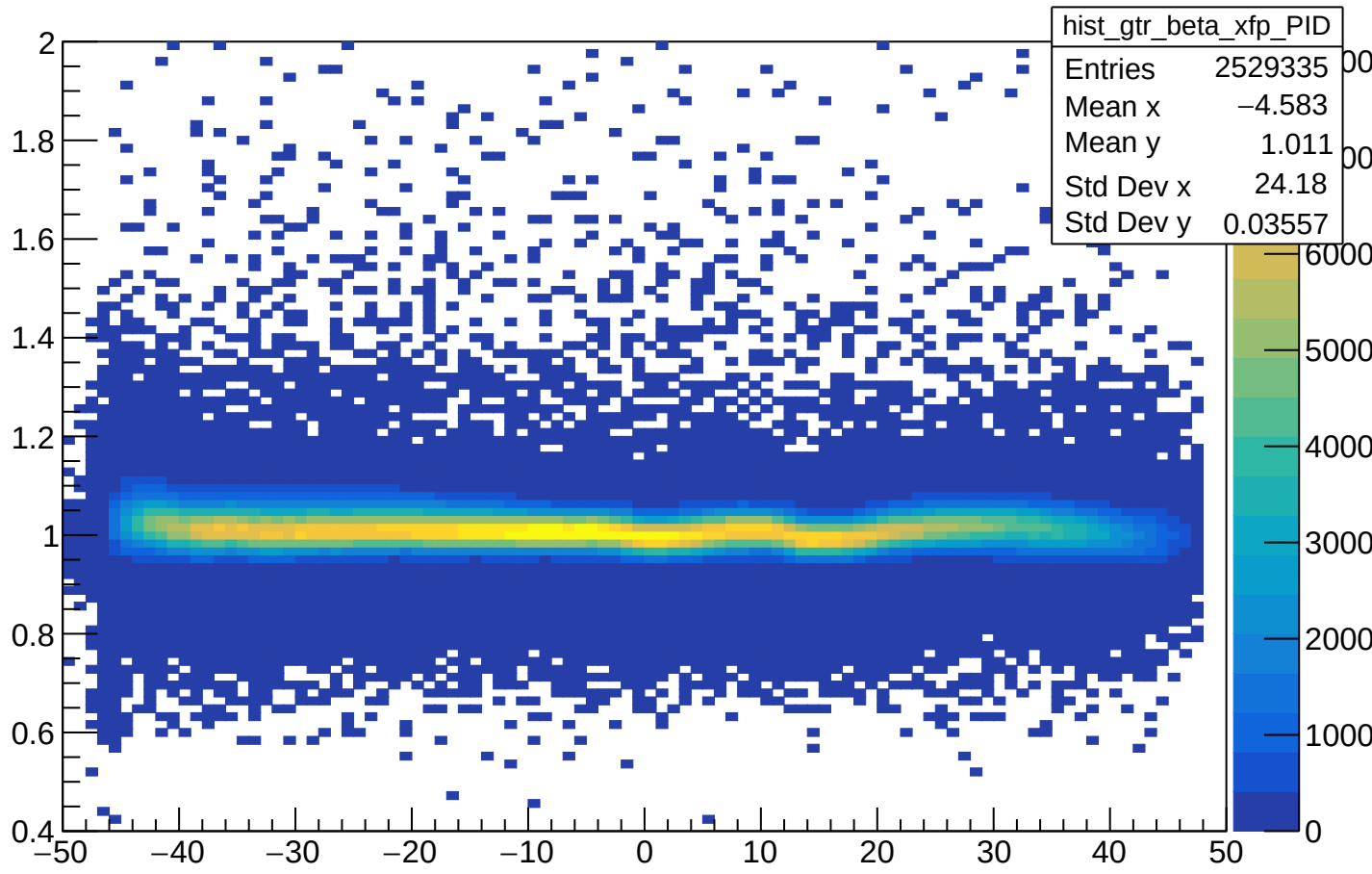

focal plane
hist_yfp_xfp
Entries 3151998
Mean x −5.586
Mean y −0.08504
Std Dev x 24.48
Std Dev y 8.071
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
2000
1500
1000
500
0

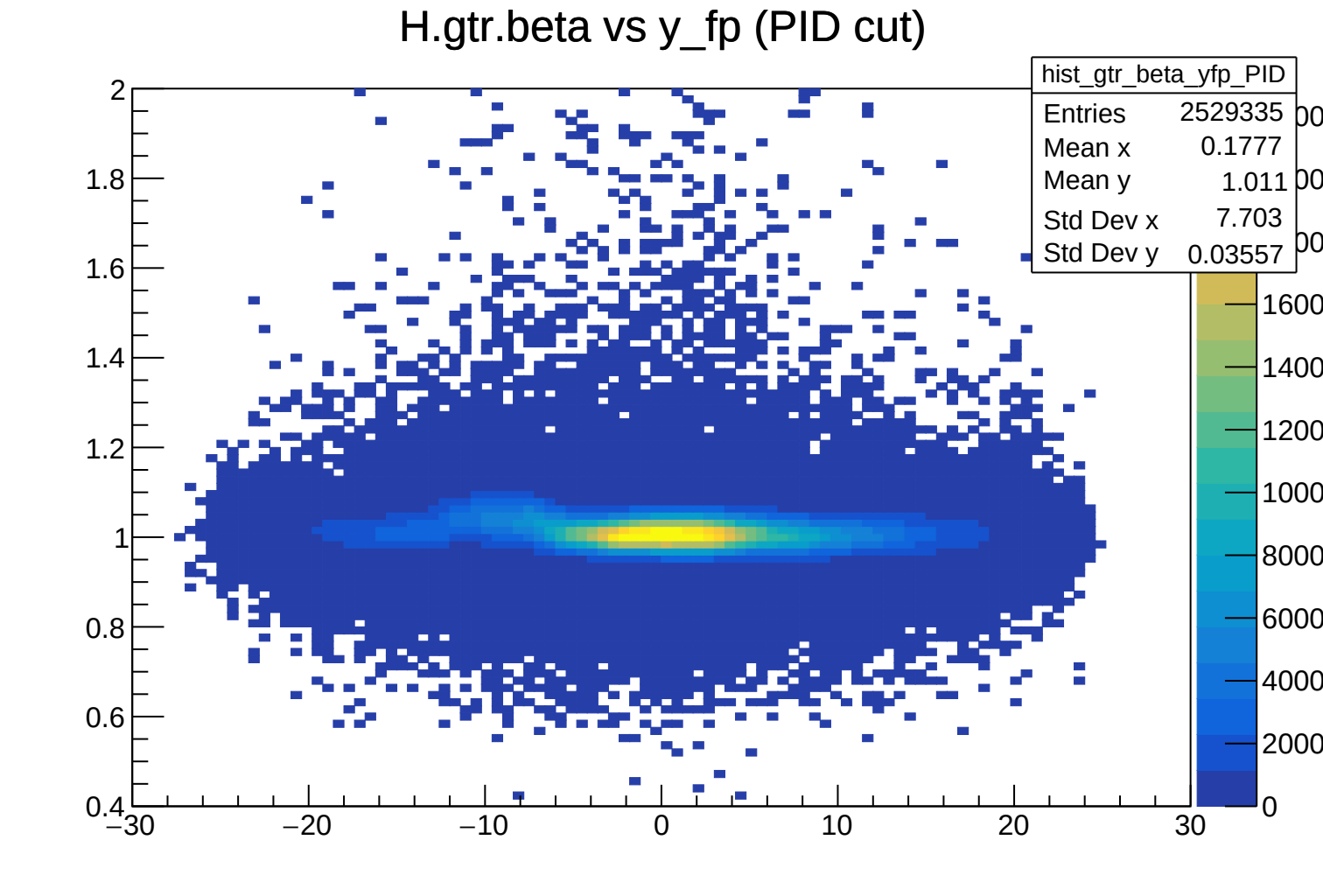

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 3151998
Mean x −5.438
Mean y 1.011
Std Dev x 24.43
Std Dev y 0.03932
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
6000
5000
4000
3000
2000
1000
0

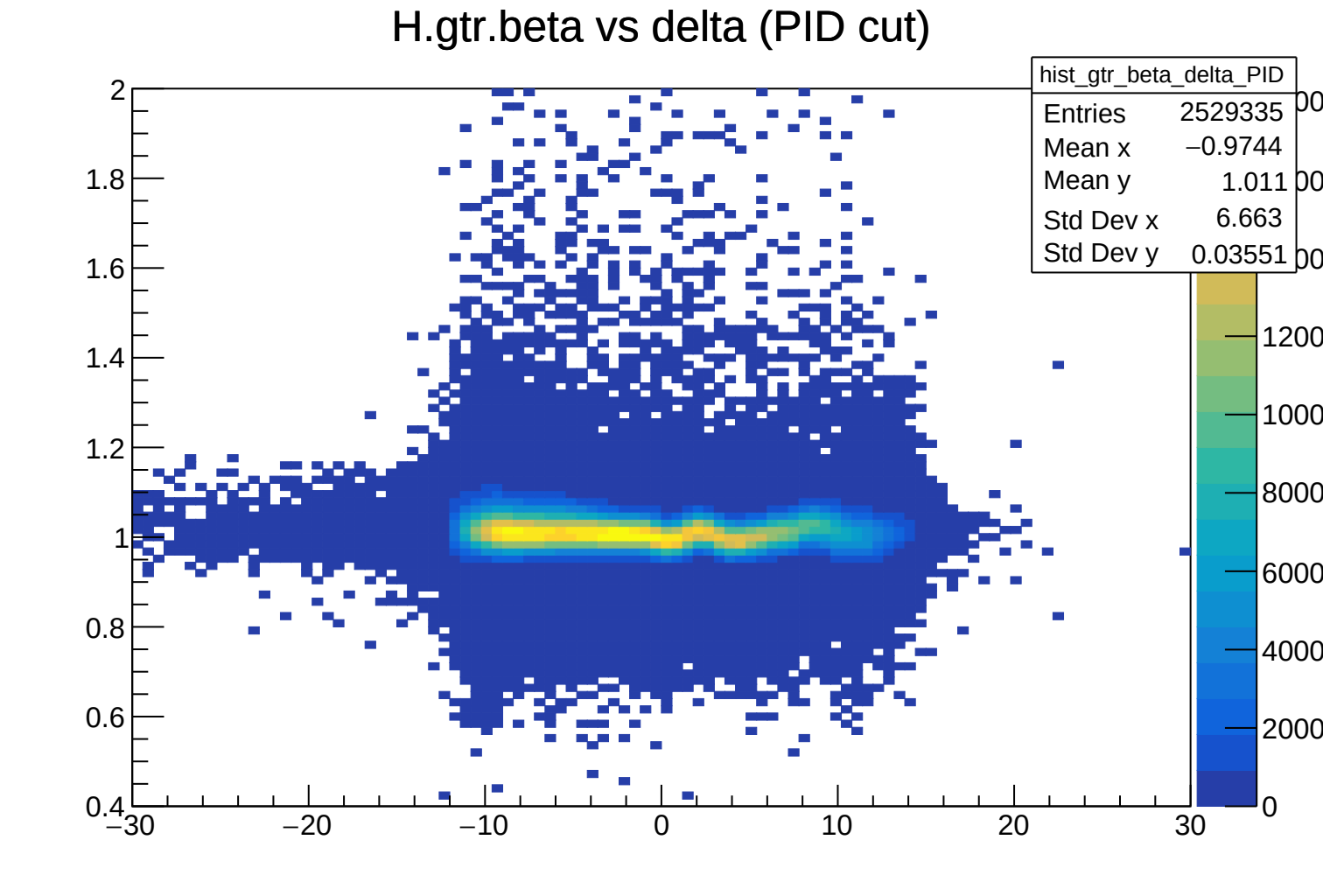

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 3151998
Mean x −0.07327
Mean y 1.01
Std Dev x 8.025
Std Dev y 0.03971
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1600
1400
1200
1000
8000
6000
4000
2000
0

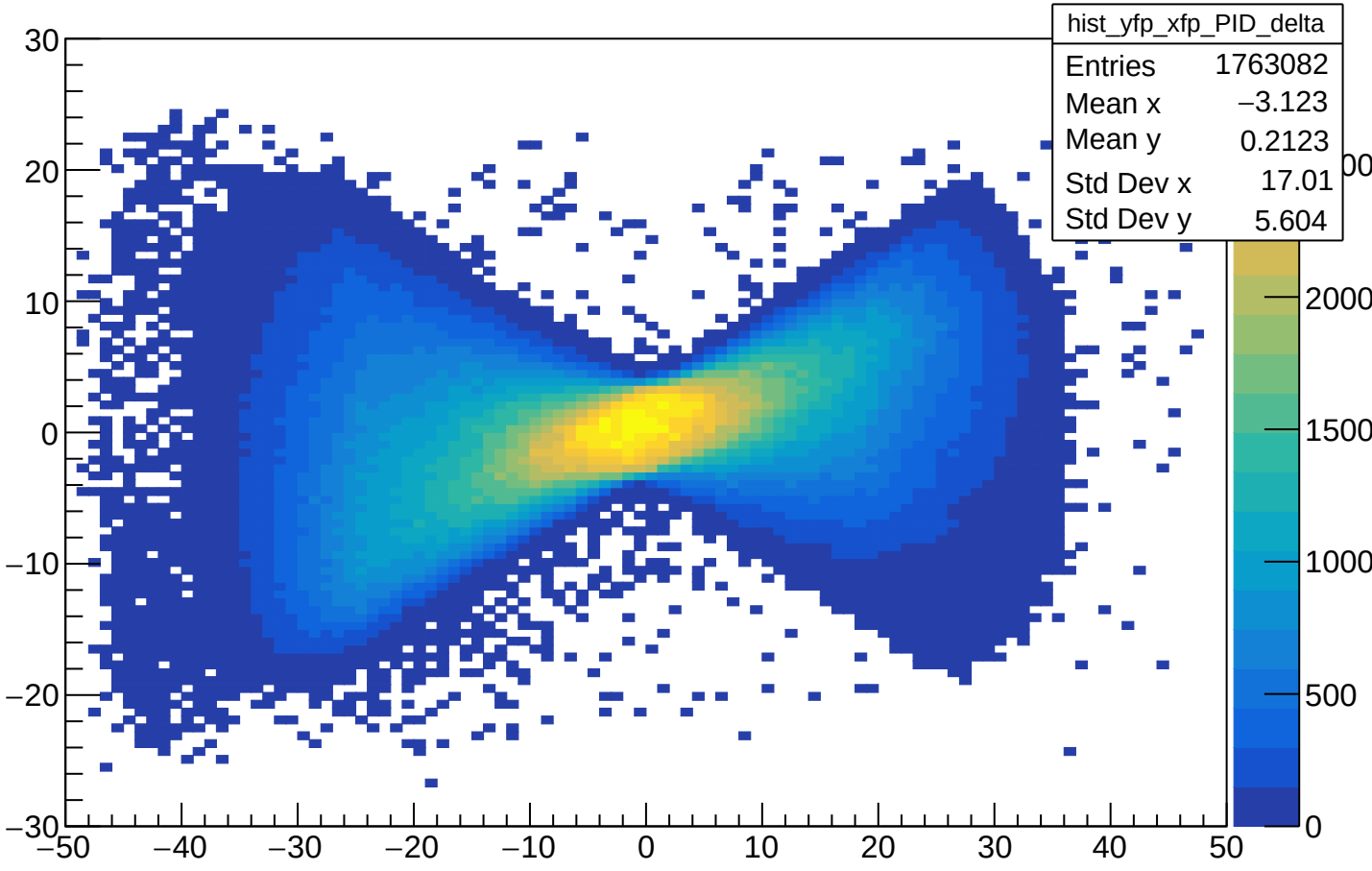

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 3151998
Mean x −1.132
Mean y 1.011
Std Dev x 6.71
Std Dev y 0.03767
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1400
1200
1000
8000
6000
4000
2000
0

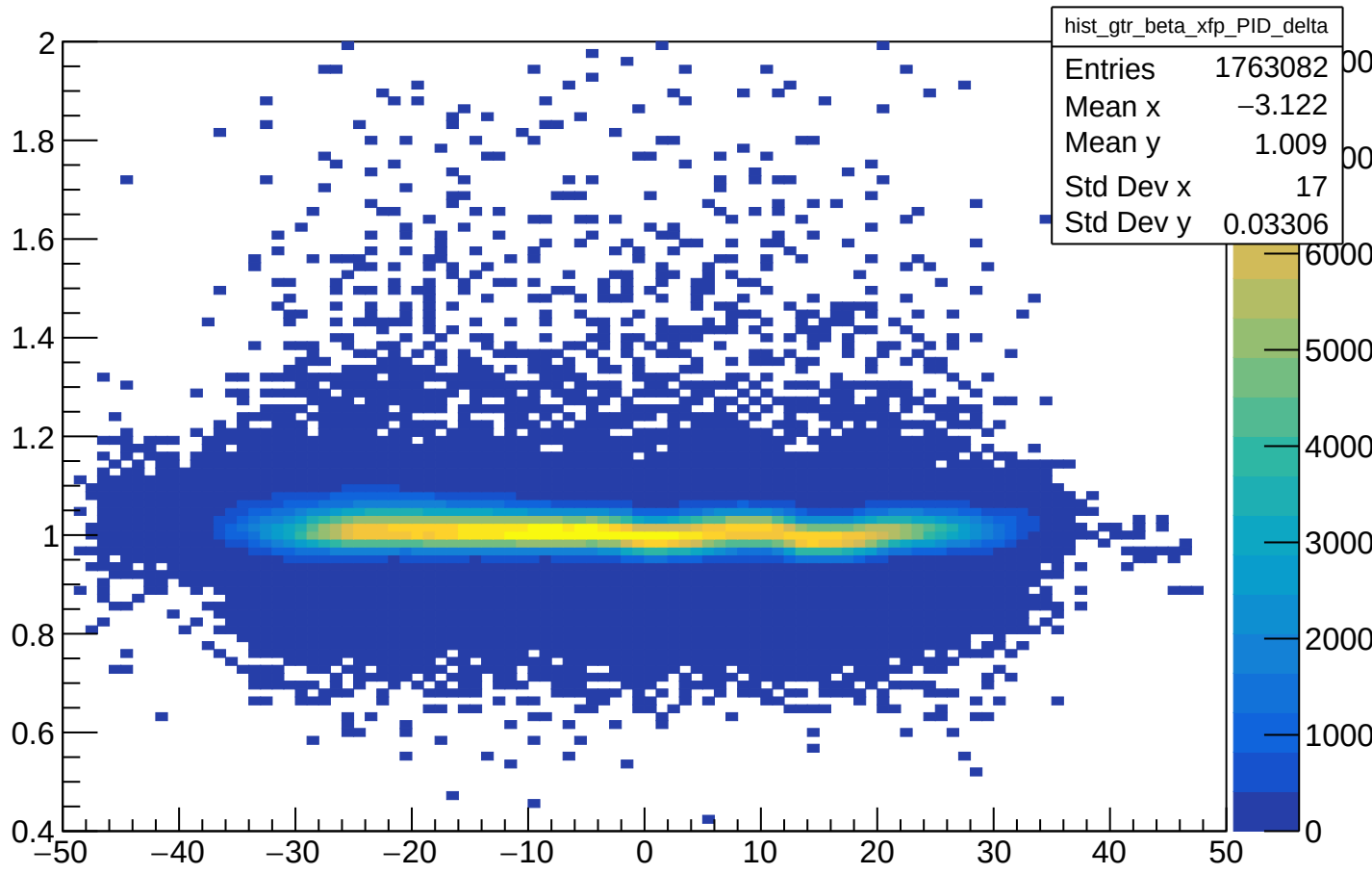

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 2529335
Mean x −4.612
Mean y 0.1763
Std Dev x 24.19
Std Dev y 7.704
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
2000
1500
1000
500
0

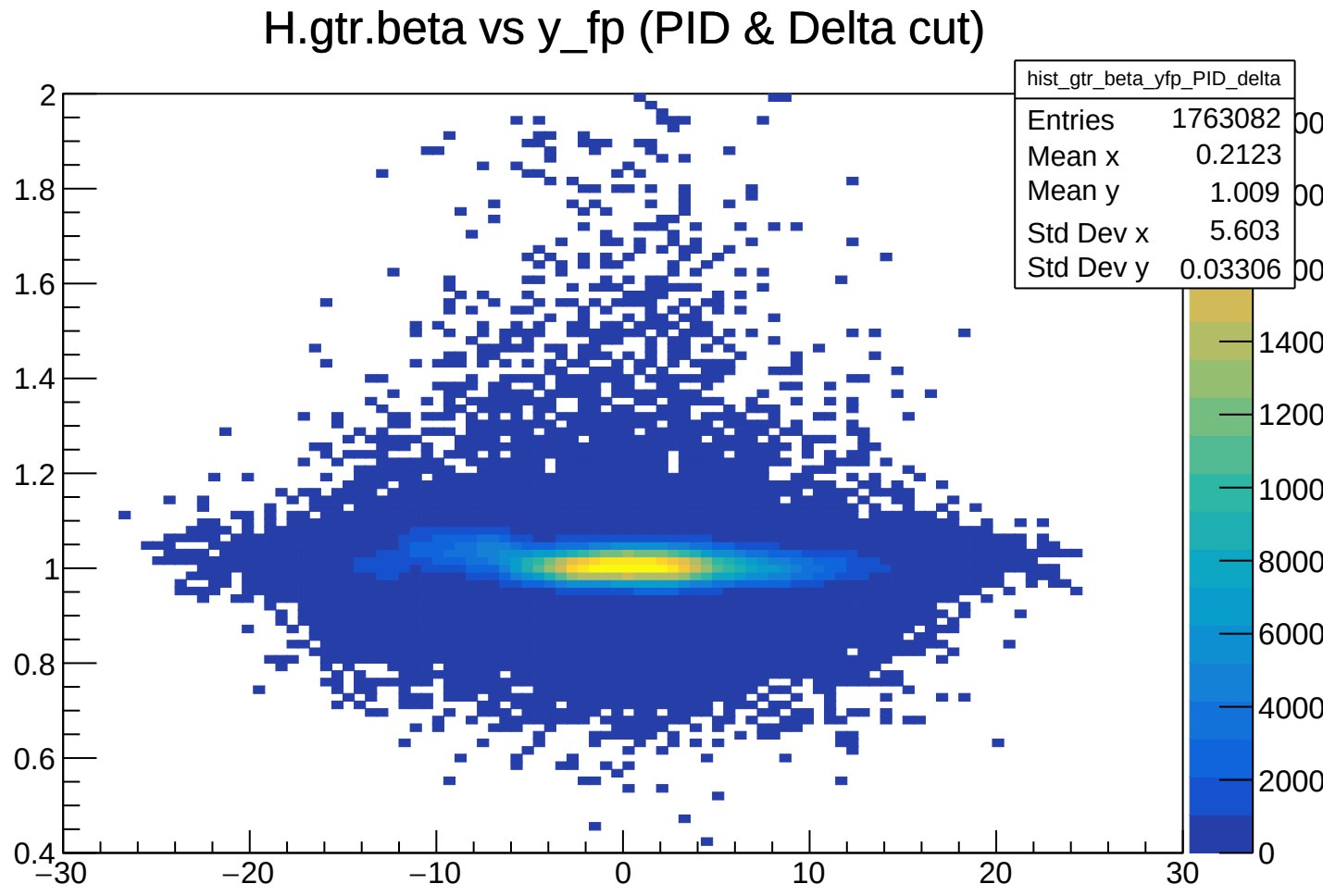

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 2529335
Mean x −4.583
Mean y 1.011
Std Dev x 24.18
Std Dev y 0.03557
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
6000
5000
4000
3000
2000
1000
0

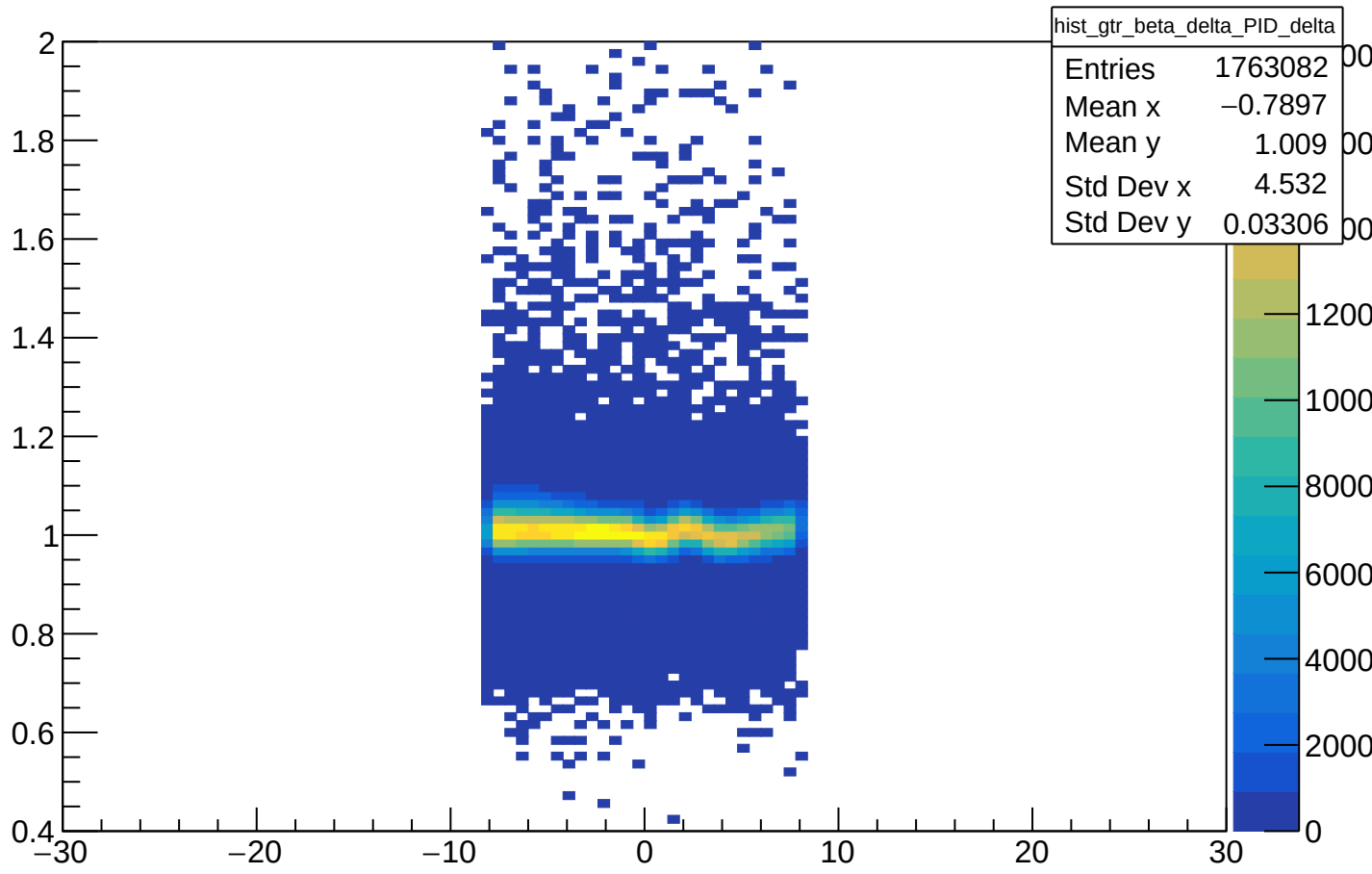

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 2529335
Mean x 0.1777
Mean y 1.011
Std Dev x 7.703
Std Dev y 0.03557
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1600
1400
1200
1000
8000
6000
4000
2000
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 2529335
Mean x −0.9744
Mean y 1.011
Std Dev x 6.663
Std Dev y 0.03551
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1200
1000
8000
6000
4000
2000
0


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 1763082
Mean x −3.123
Mean y 0.2123
Std Dev x 17.01
Std Dev y 5.604
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
2000
1500
1000
500
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 1763082
Mean x −3.122
Mean y 1.009
Std Dev x 17
Std Dev y 0.03306
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
6000
5000
4000
3000
2000
1000
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 1763082
Mean x 0.2123
Mean y 1.009
Std Dev x 5.603
Std Dev y 0.03306
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
8000
6000
4000
2000
0


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 1763082
Mean x −0.7897
Mean y 1.009
Std Dev x 4.532
Std Dev y 0.03306
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1200
1000
8000
6000
4000
2000
0