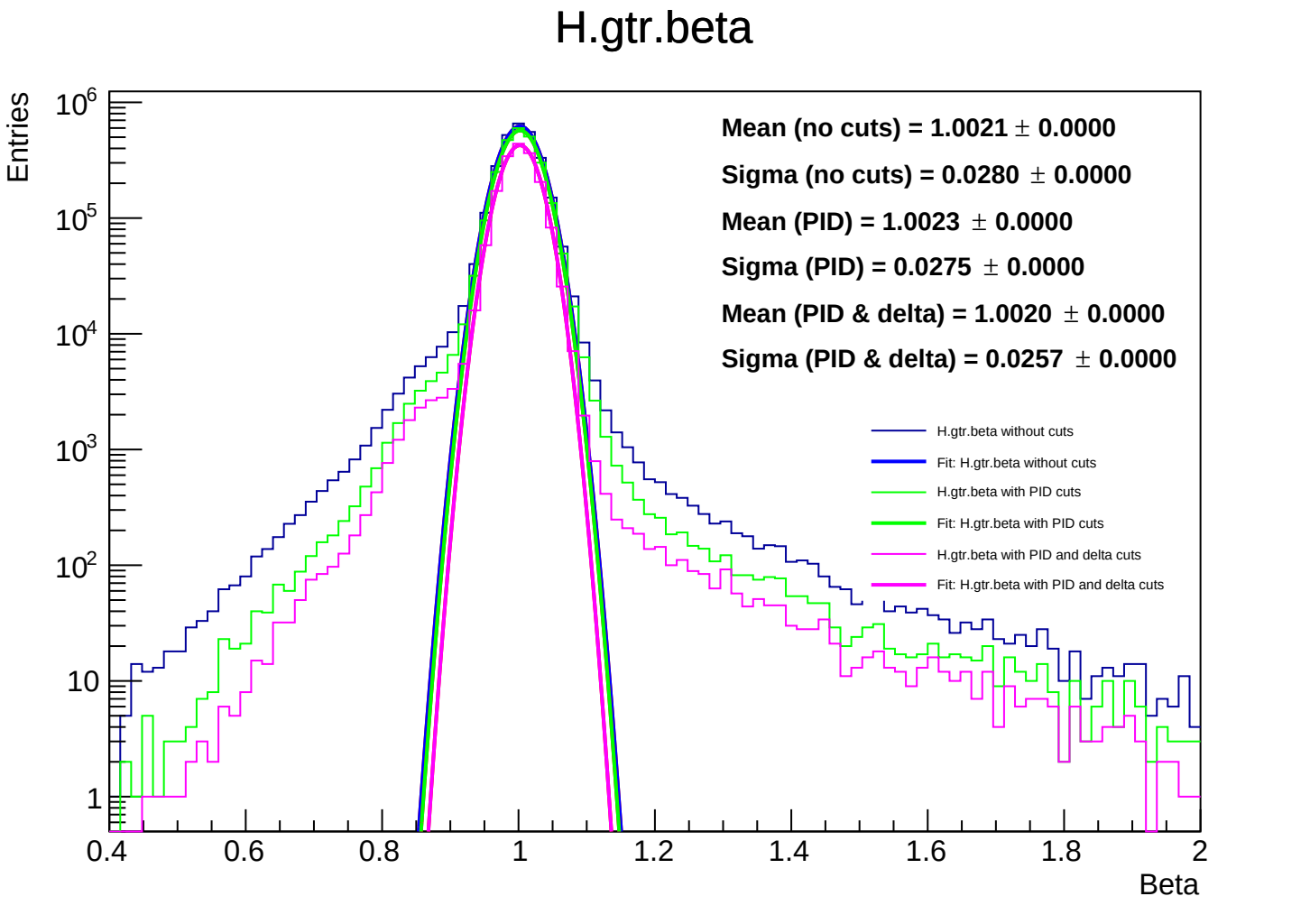
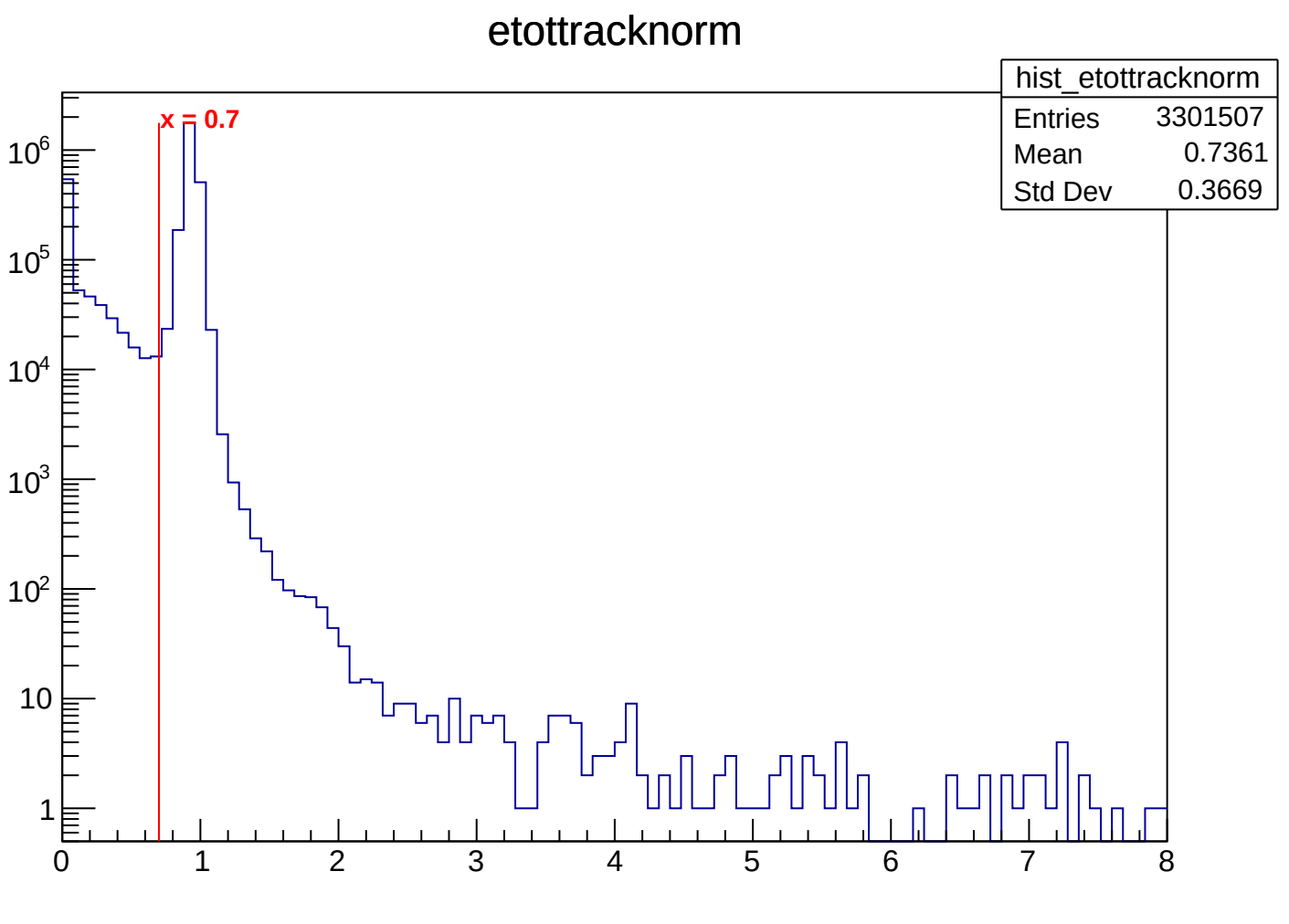
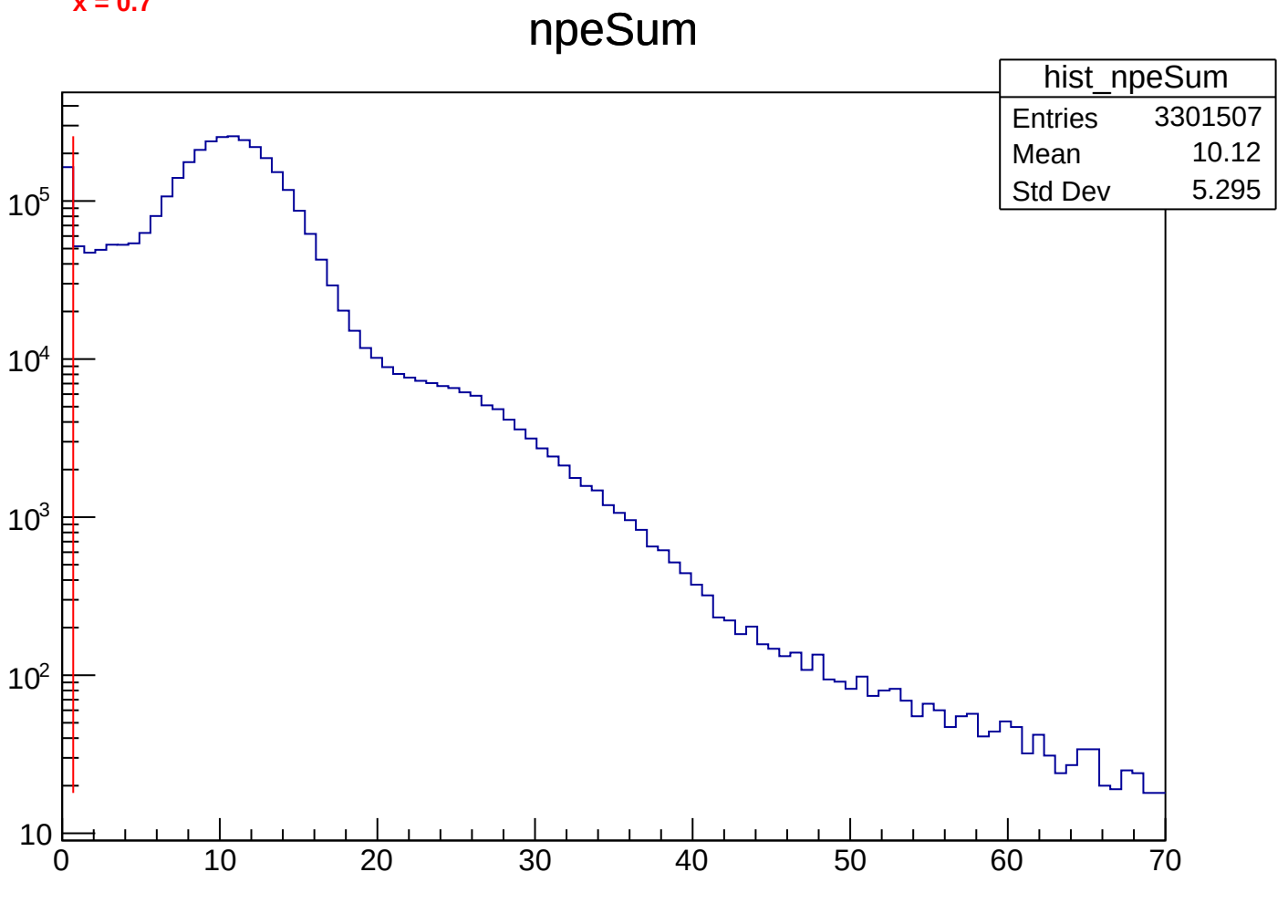
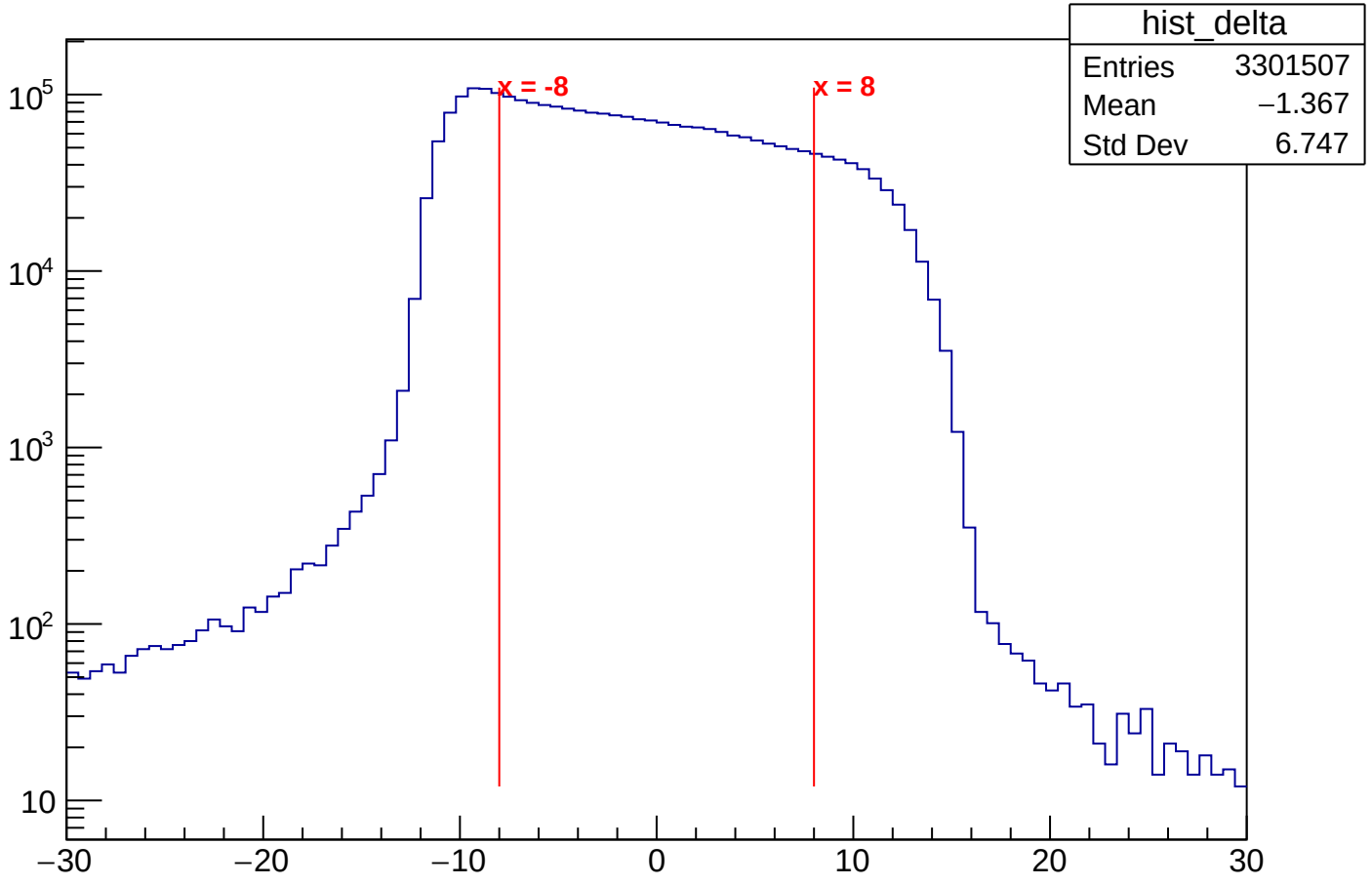
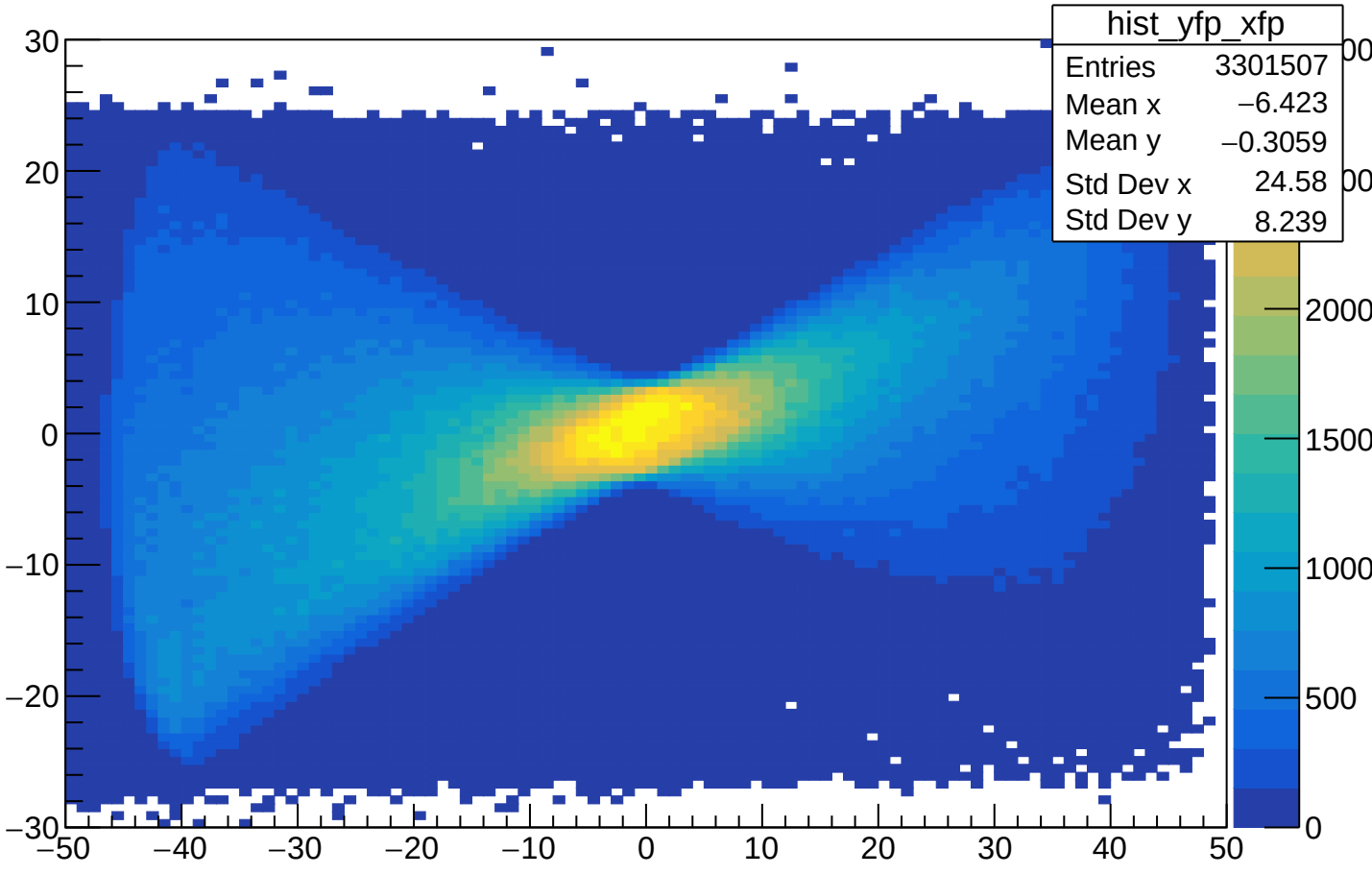
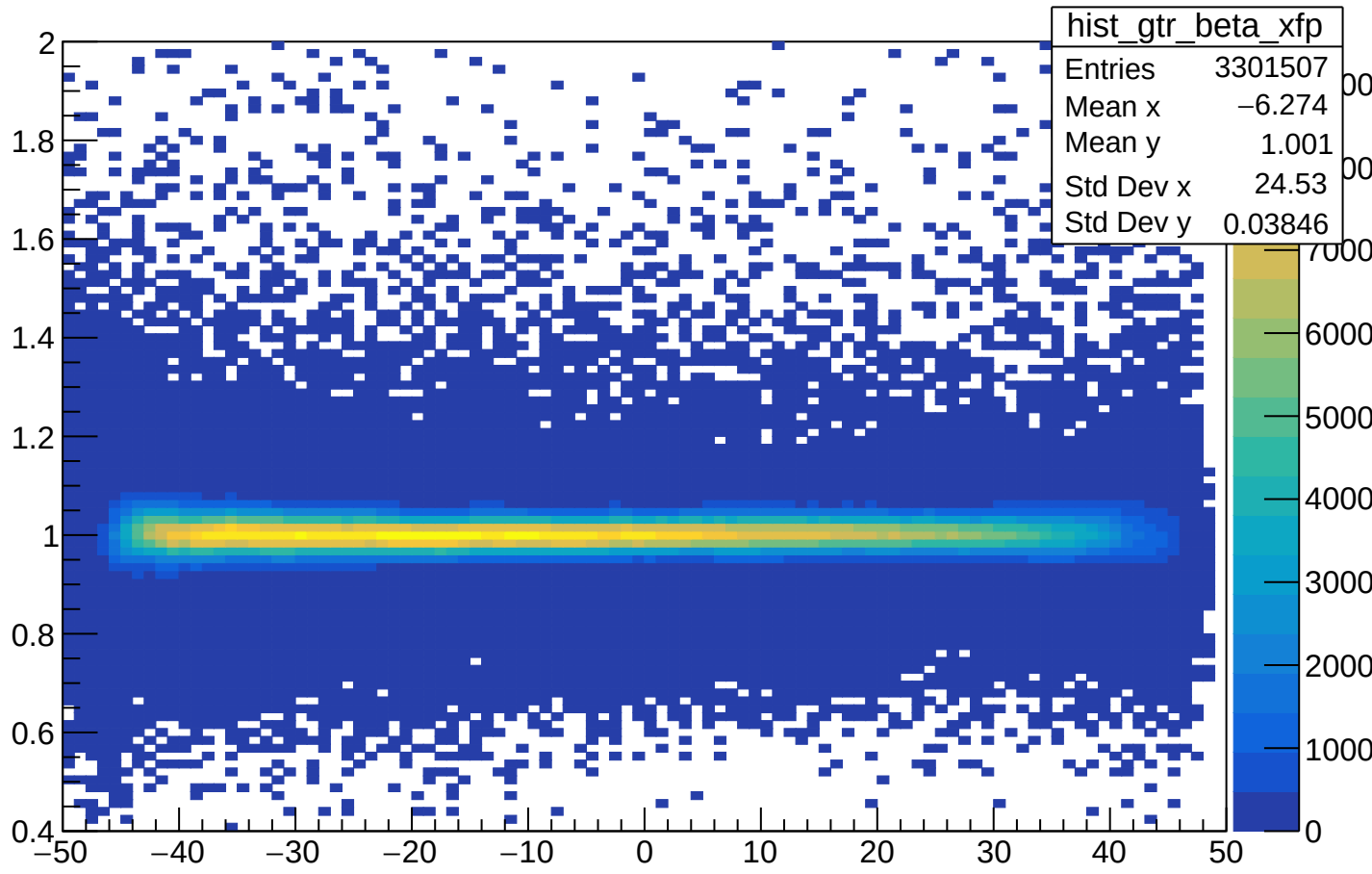

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0021 ± 0.0000
Sigma (no cuts) = 0.0280 ± 0.0000
Mean (PID) = 1.0023 ± 0.0000
Sigma (PID) = 0.0275 ± 0.0000
Mean (PID & delta) = 1.0020 ± 0.0000
Sigma (PID & delta) = 0.0257 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

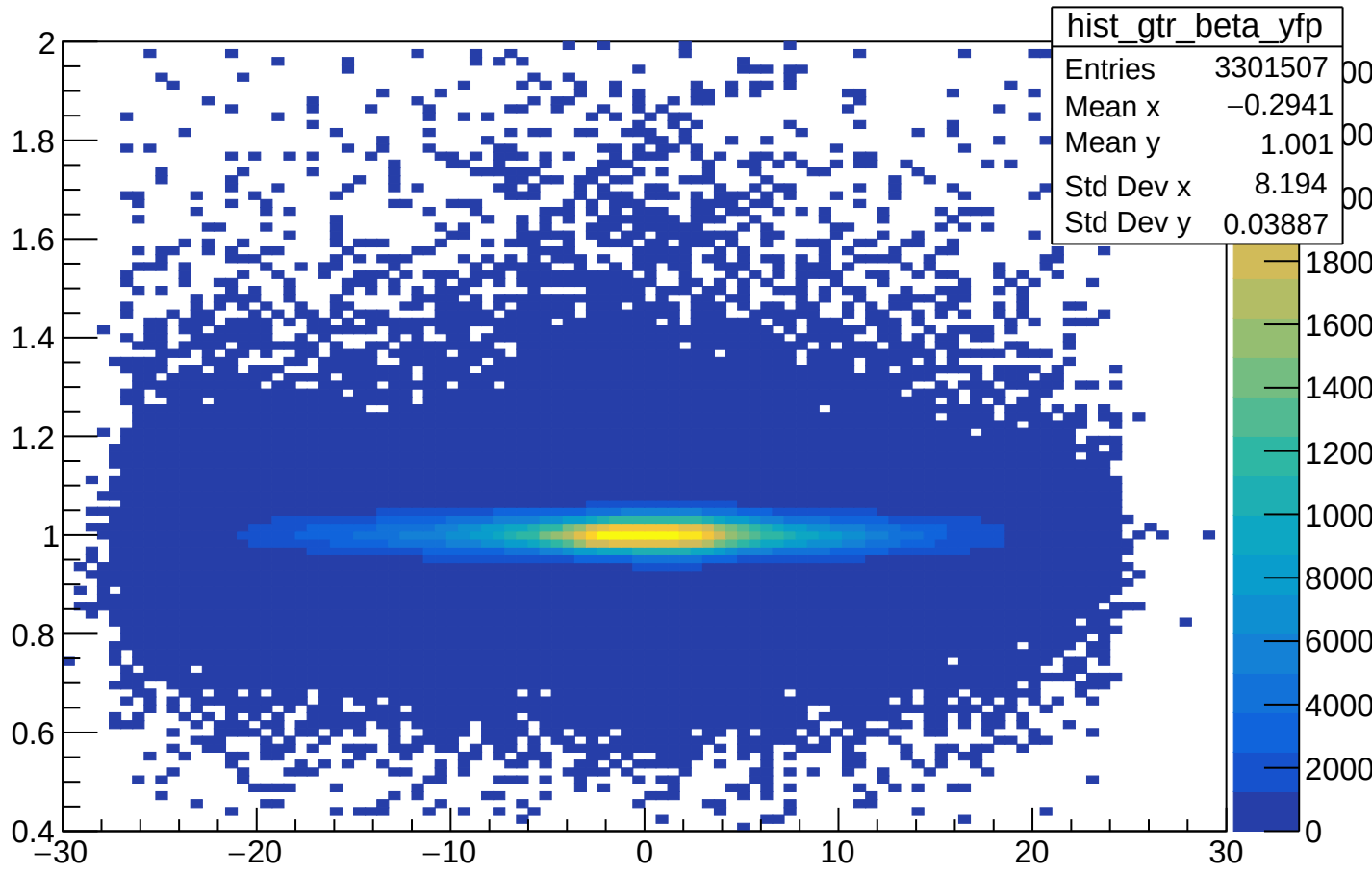

etottracknorm
hist_etottracknorm
Entries 3301507
Mean 0.7361
Std Dev 0.3669
x = 0.7
10^6
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

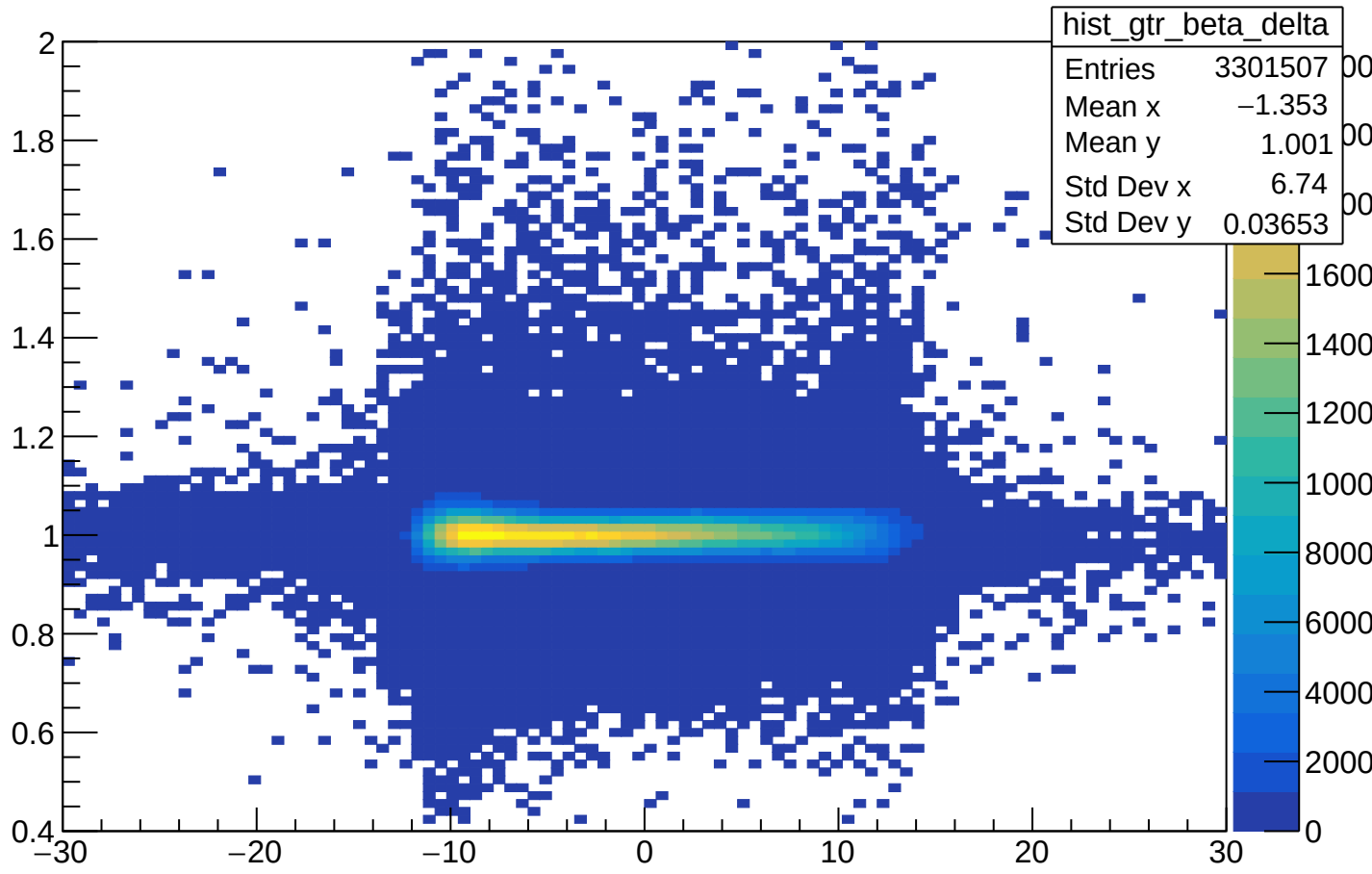

x = 0.7
npeSum
hist_npeSum
Entries 3301507
Mean 10.12
Std Dev 5.295
10^5
10^4
10^3
10^2
10
0
10
20
30
40
50
60
70

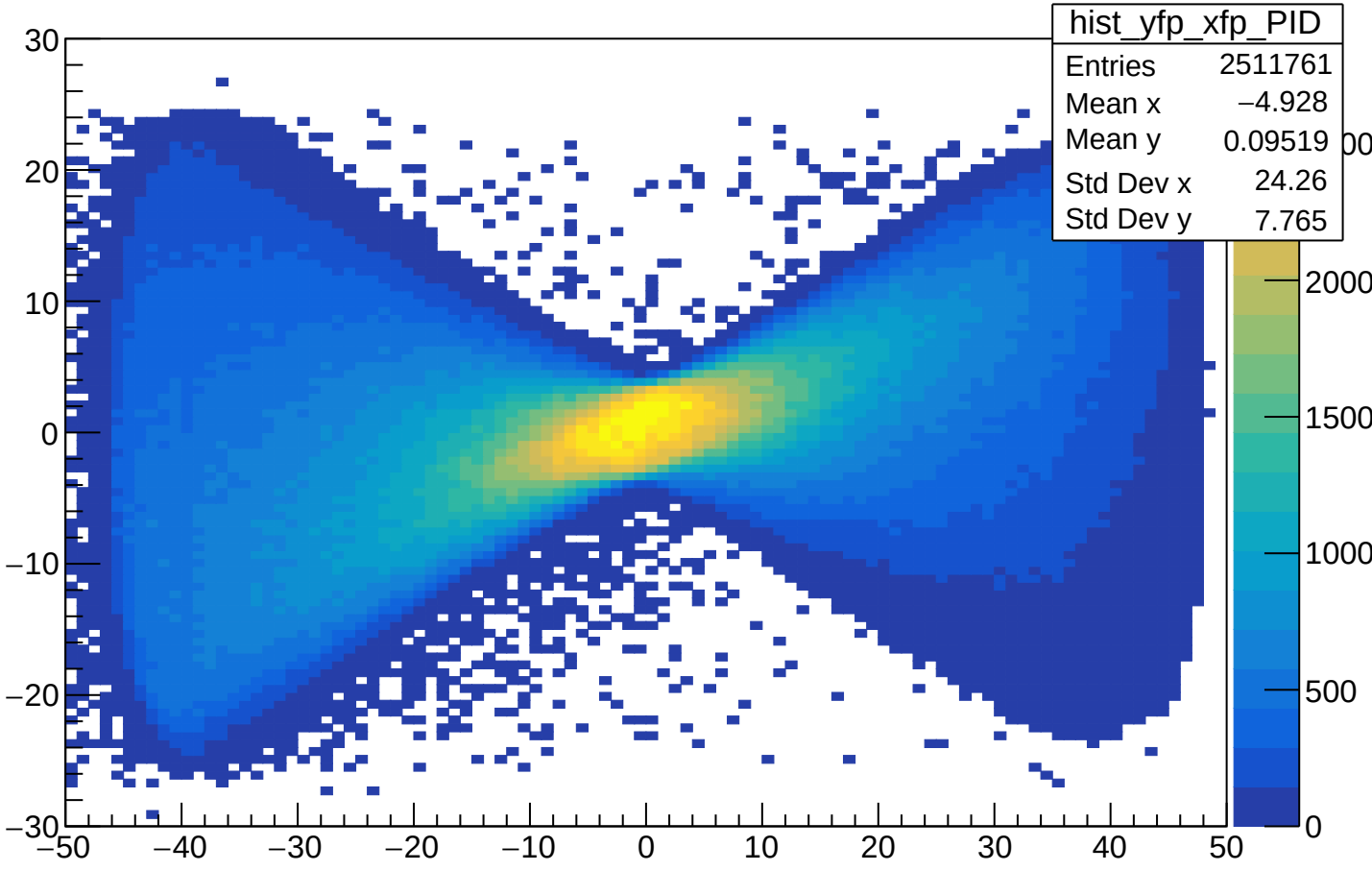

delta
hist_delta
Entries 3301507
Mean −1.367
Std Dev 6.747
x = -8
x = 8
10^5
10^4
10^3
10^2
10
−30
−20
−10
0
10
20
30

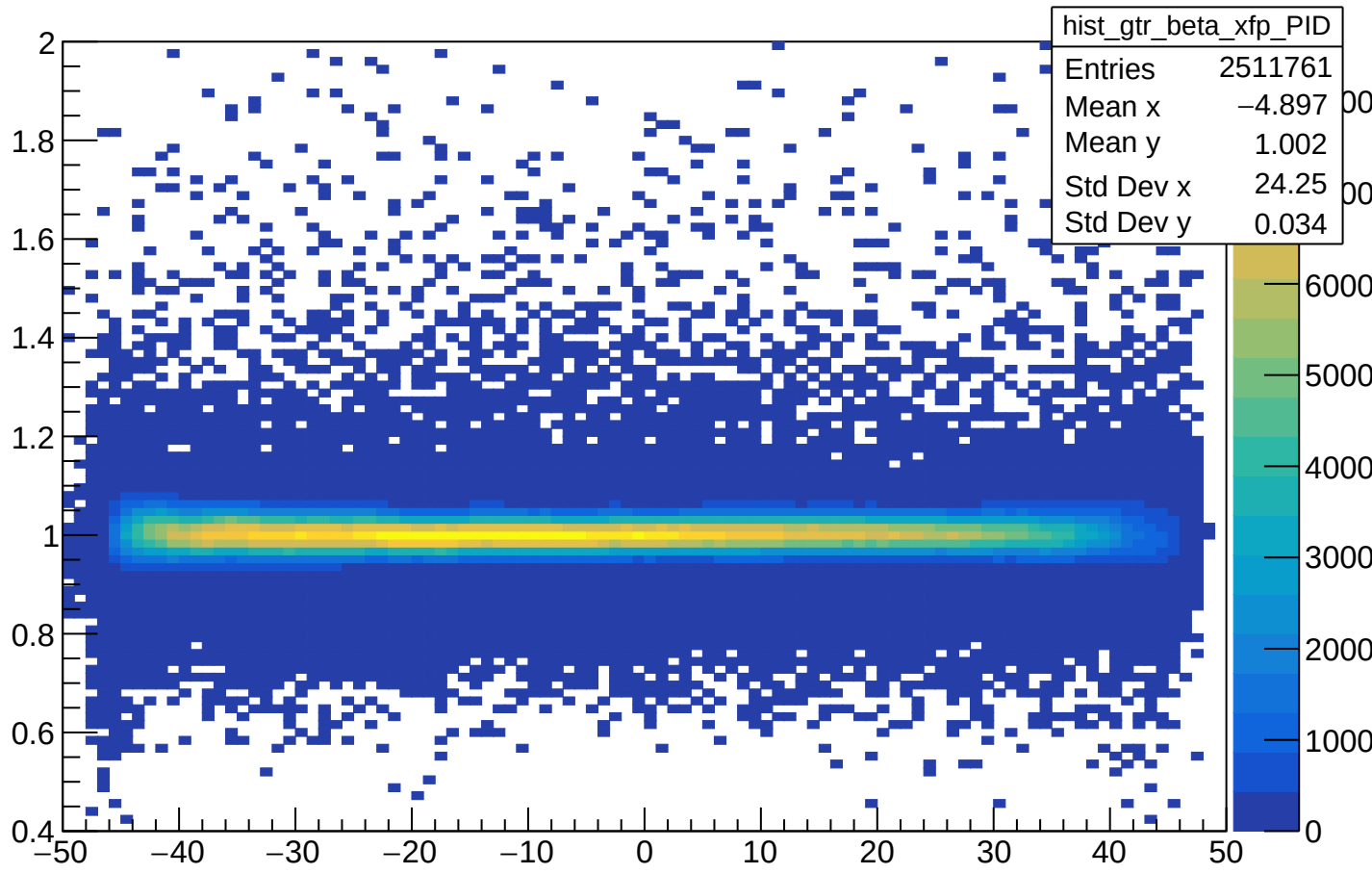

focal plane
hist_yfp_xfp
Entries 3301507
Mean x −6.423
Mean y −0.3059
Std Dev x 24.58
Std Dev y 8.239
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
2000
1500
1000
500
0

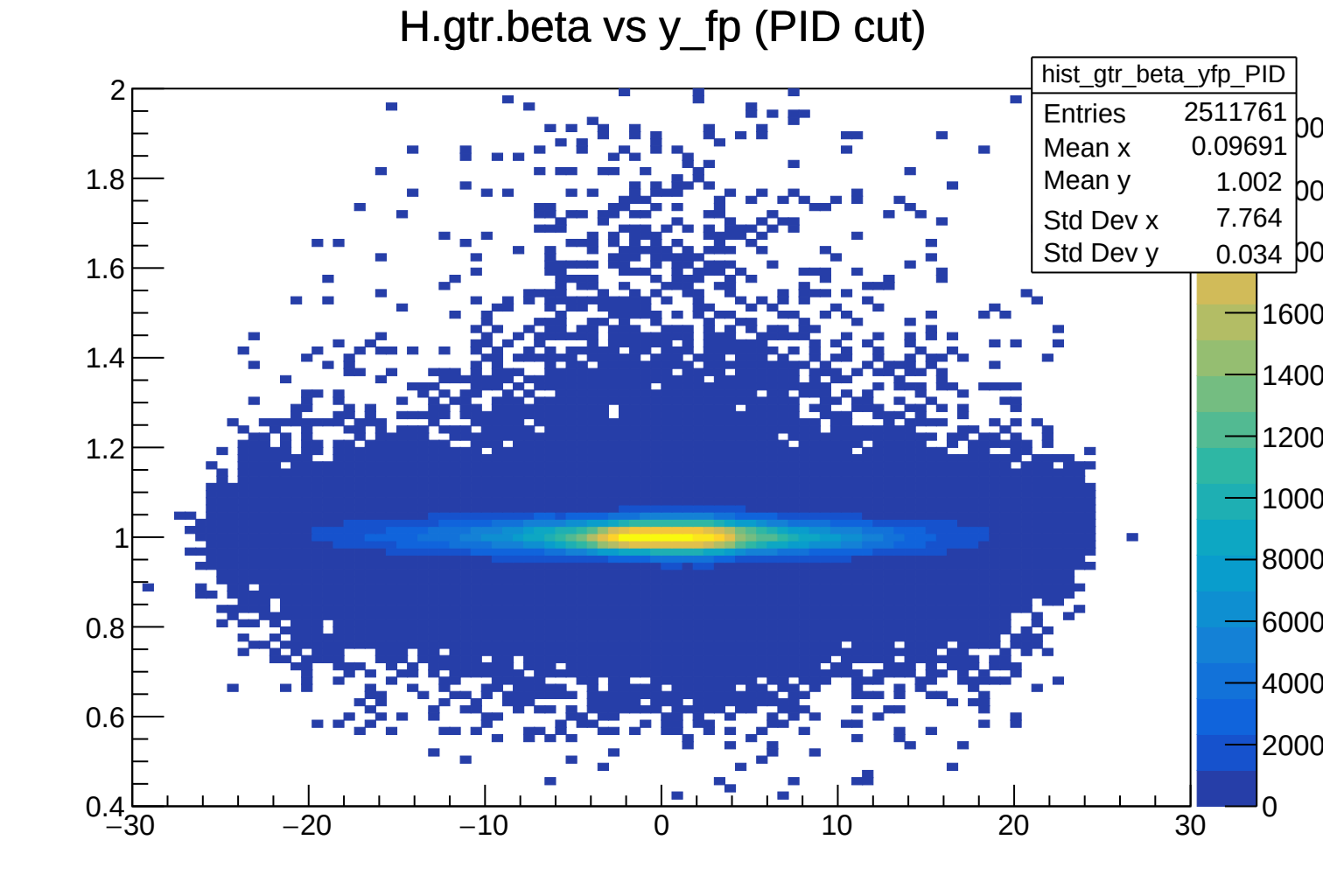

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 3301507
Mean x −6.274
Mean y 1.001
Std Dev x 24.53
Std Dev y 0.03846
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
7000
6000
5000
4000
3000
2000
1000
0

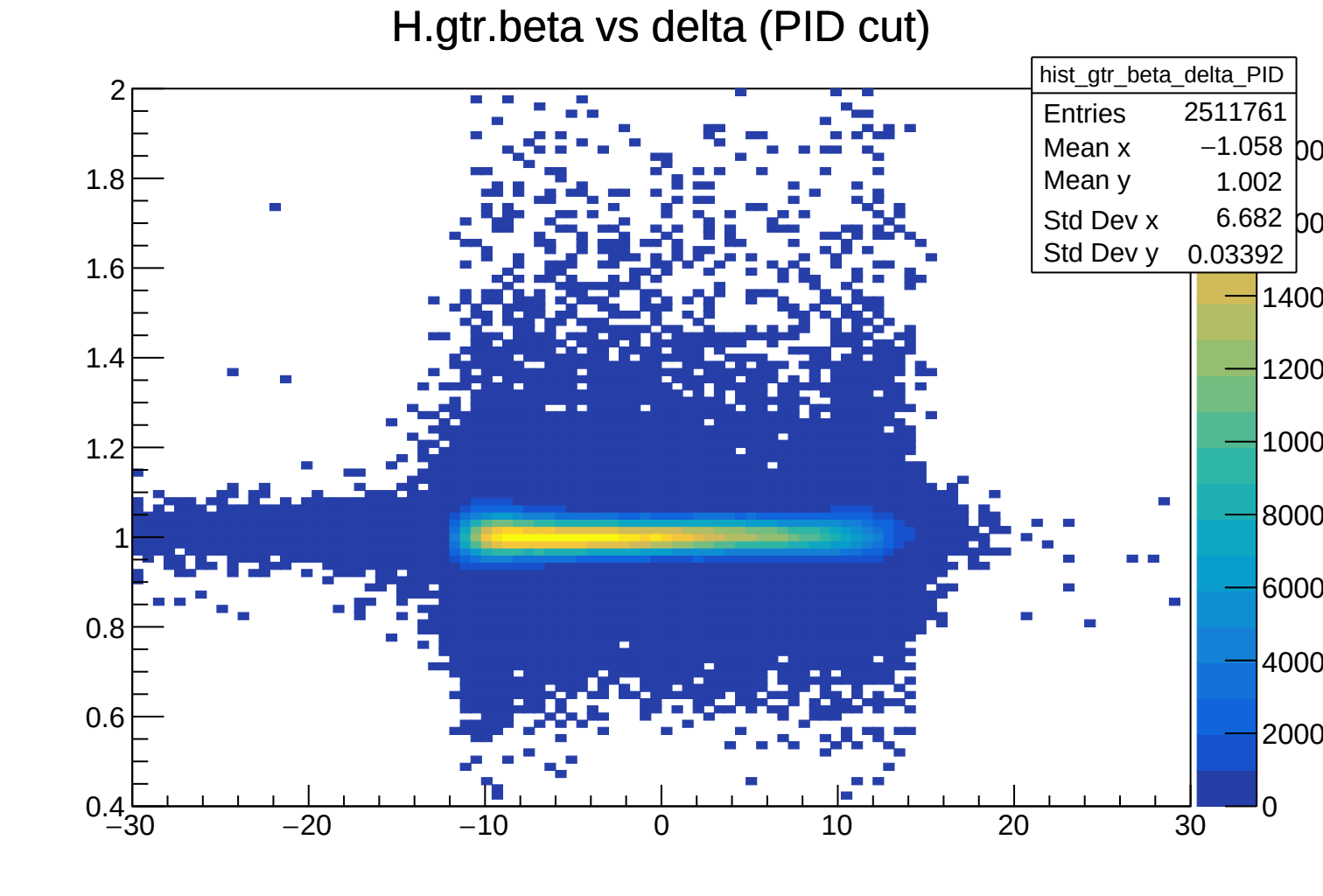

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 3301507
Mean x −0.2941
Mean y 1.001
Std Dev x 8.194
Std Dev y 0.03887
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1800
1600
1400
1200
1000
8000
6000
4000
2000
0

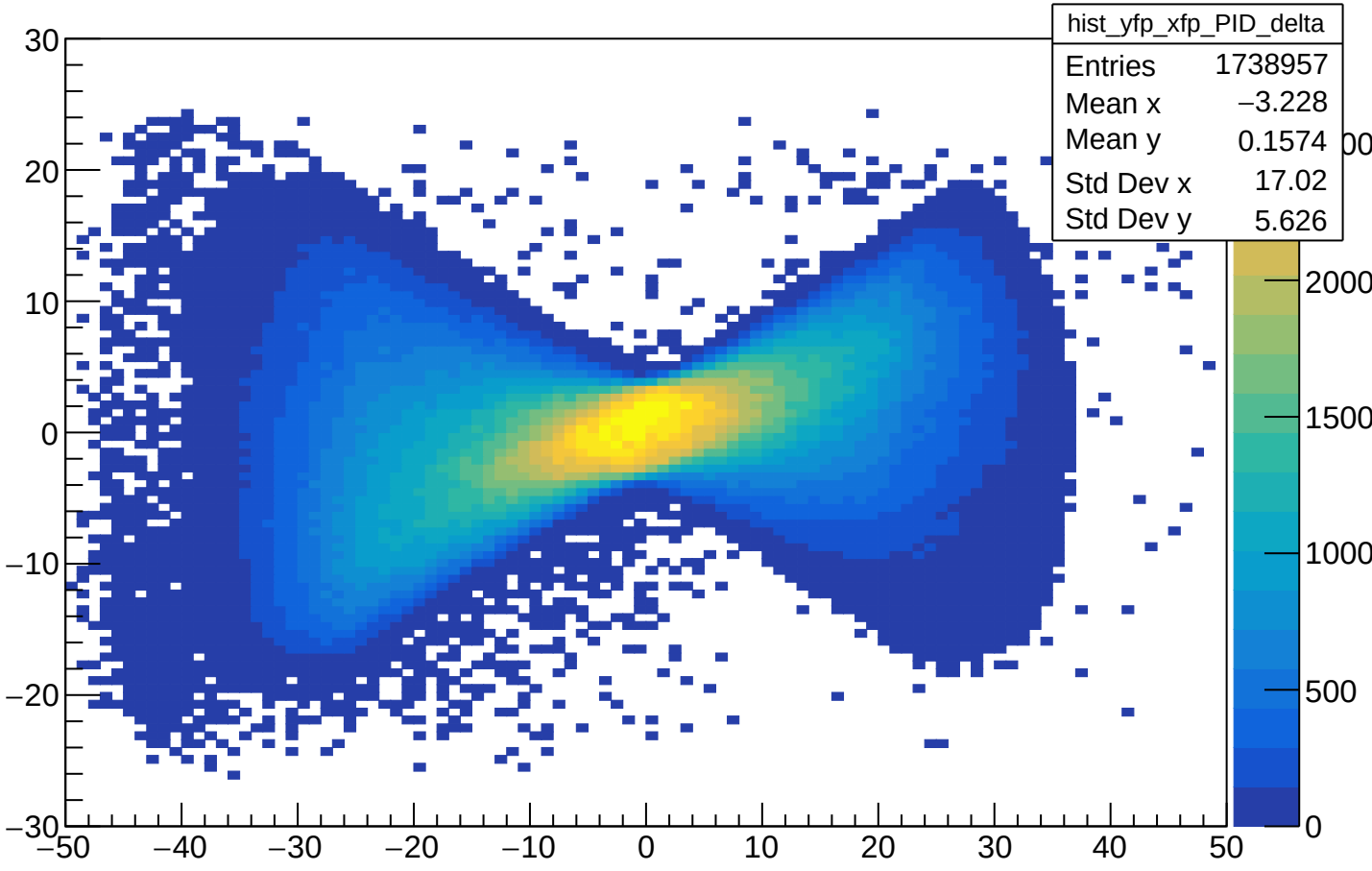

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 3301507
Mean x −1.353
Mean y 1.001
Std Dev x 6.74
Std Dev y 0.03653
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1600
1400
1200
1000
8000
6000
4000
2000
0

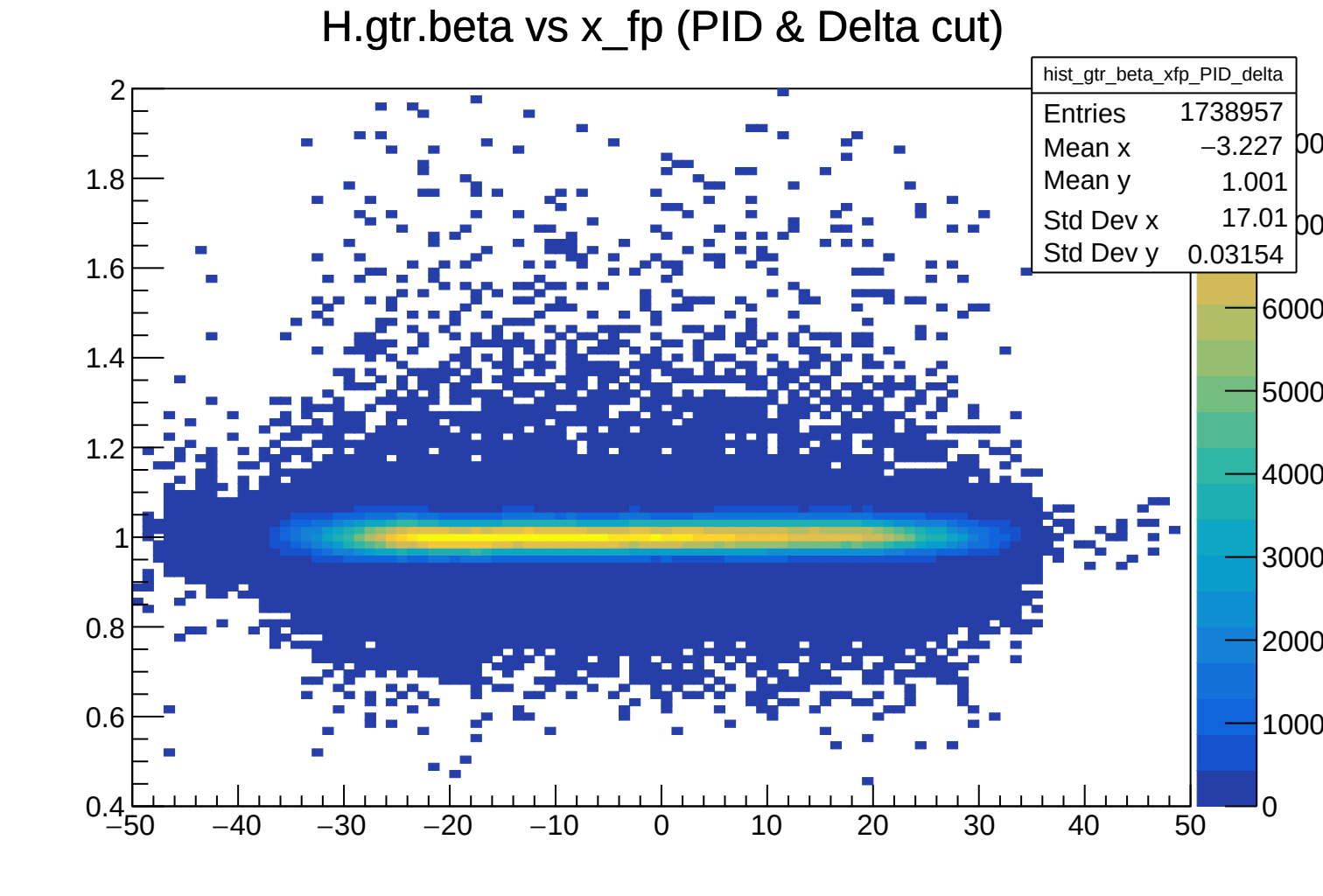

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 2511761
Mean x −4.928
Mean y 0.09519
Std Dev x 24.26
Std Dev y 7.765
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
2000
1500
1000
500
0

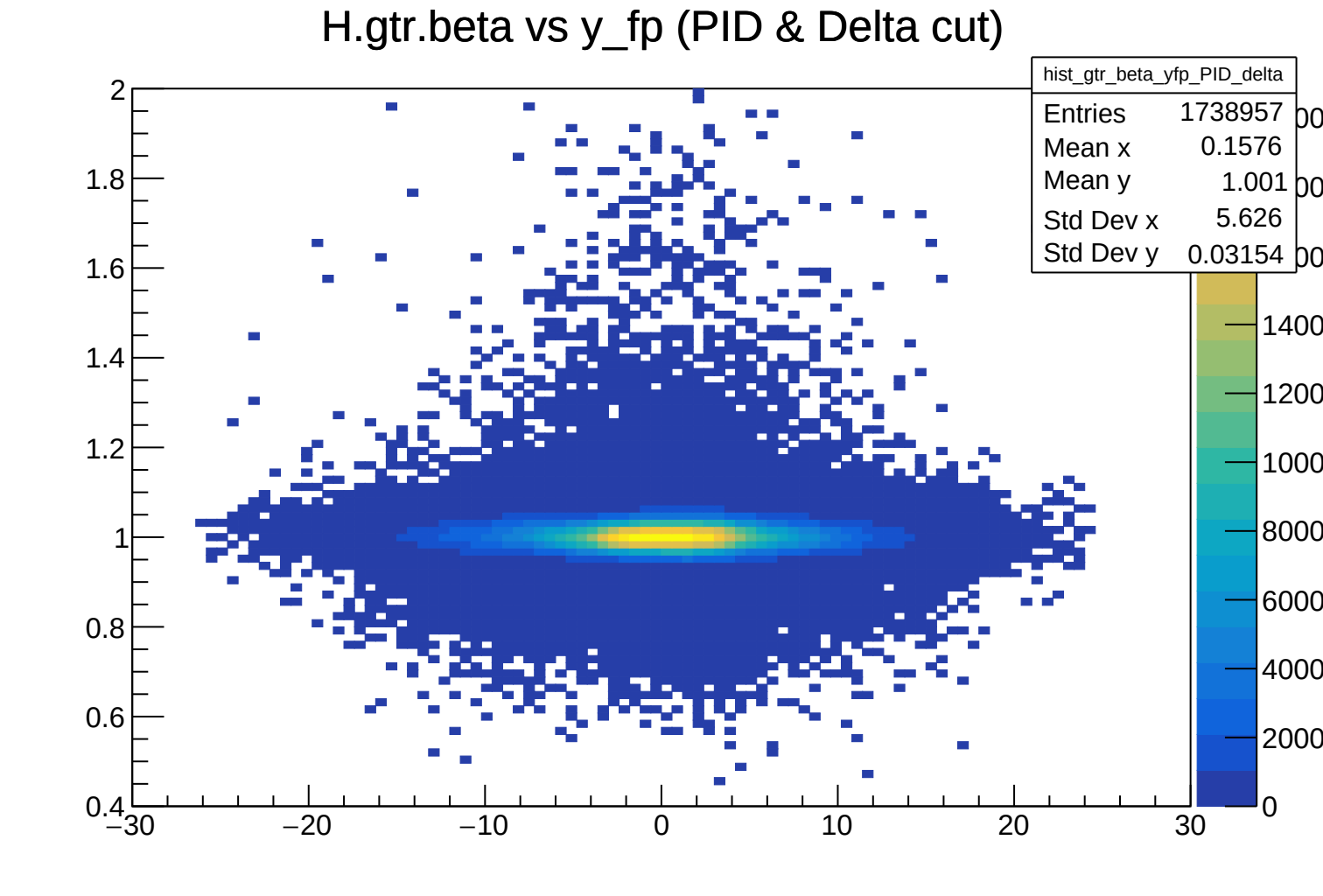

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 2511761
Mean x −4.897
Mean y 1.002
Std Dev x 24.25
Std Dev y 0.034
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
6000
5000
4000
3000
2000
1000
0

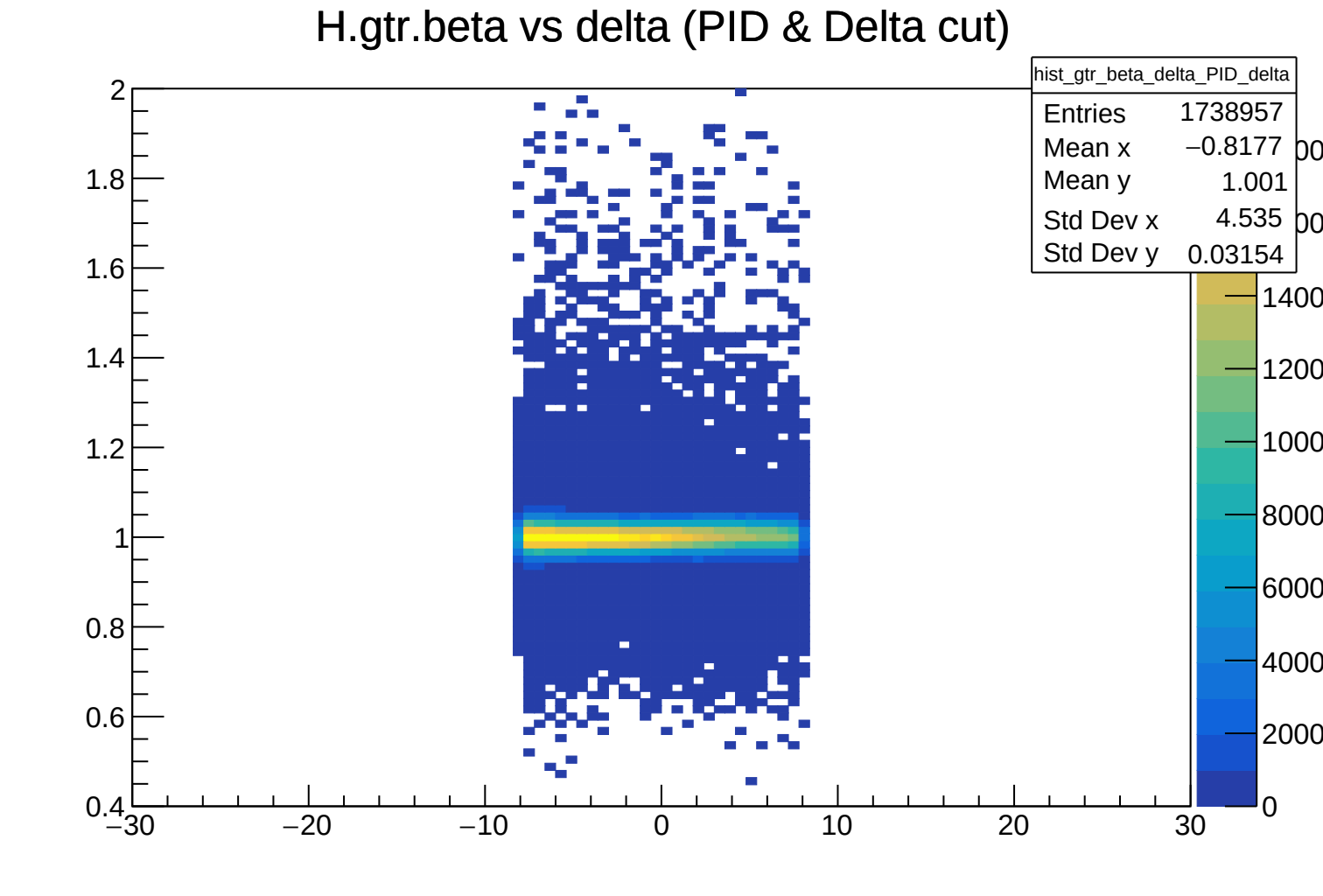

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 2511761
Mean x 0.09691
Mean y 1.002
Std Dev x 7.764
Std Dev y 0.034
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1600
1400
1200
1000
8000
6000
4000
2000
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 2511761
Mean x −1.058
Mean y 1.002
Std Dev x 6.682
Std Dev y 0.03392
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 & Delta cut)
hist_yfp_xfp_PID_delta
Entries 1738957
Mean x −3.228
Mean y 0.1574
Std Dev x 17.02
Std Dev y 5.626
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 1738957
Mean x −3.227
Mean y 1.001
Std Dev x 17.01
Std Dev y 0.03154
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 1738957
Mean x 0.1576
Mean y 1.001
Std Dev x 5.626
Std Dev y 0.03154
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 1738957
Mean x −0.8177
Mean y 1.001
Std Dev x 4.535
Std Dev y 0.03154
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