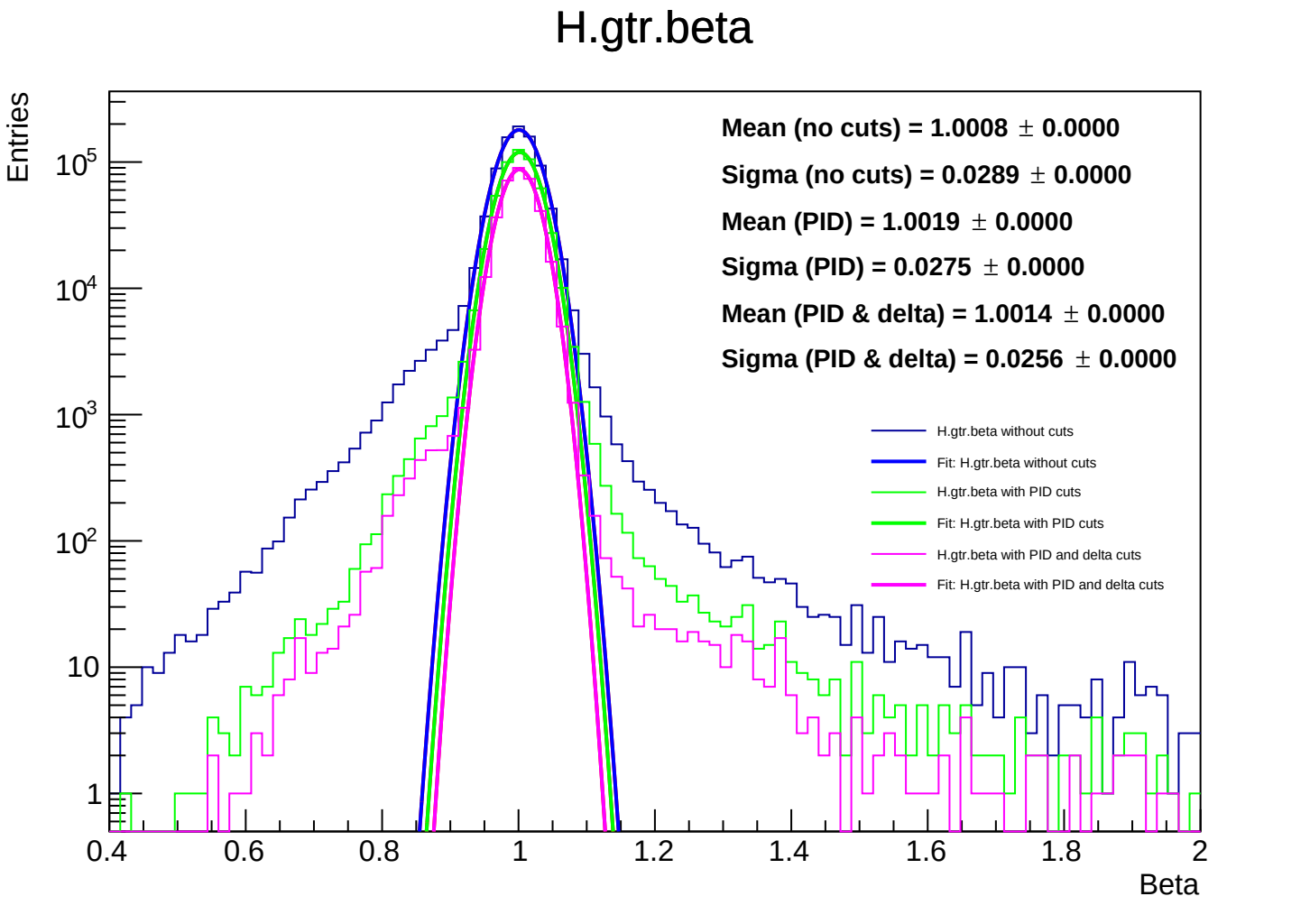
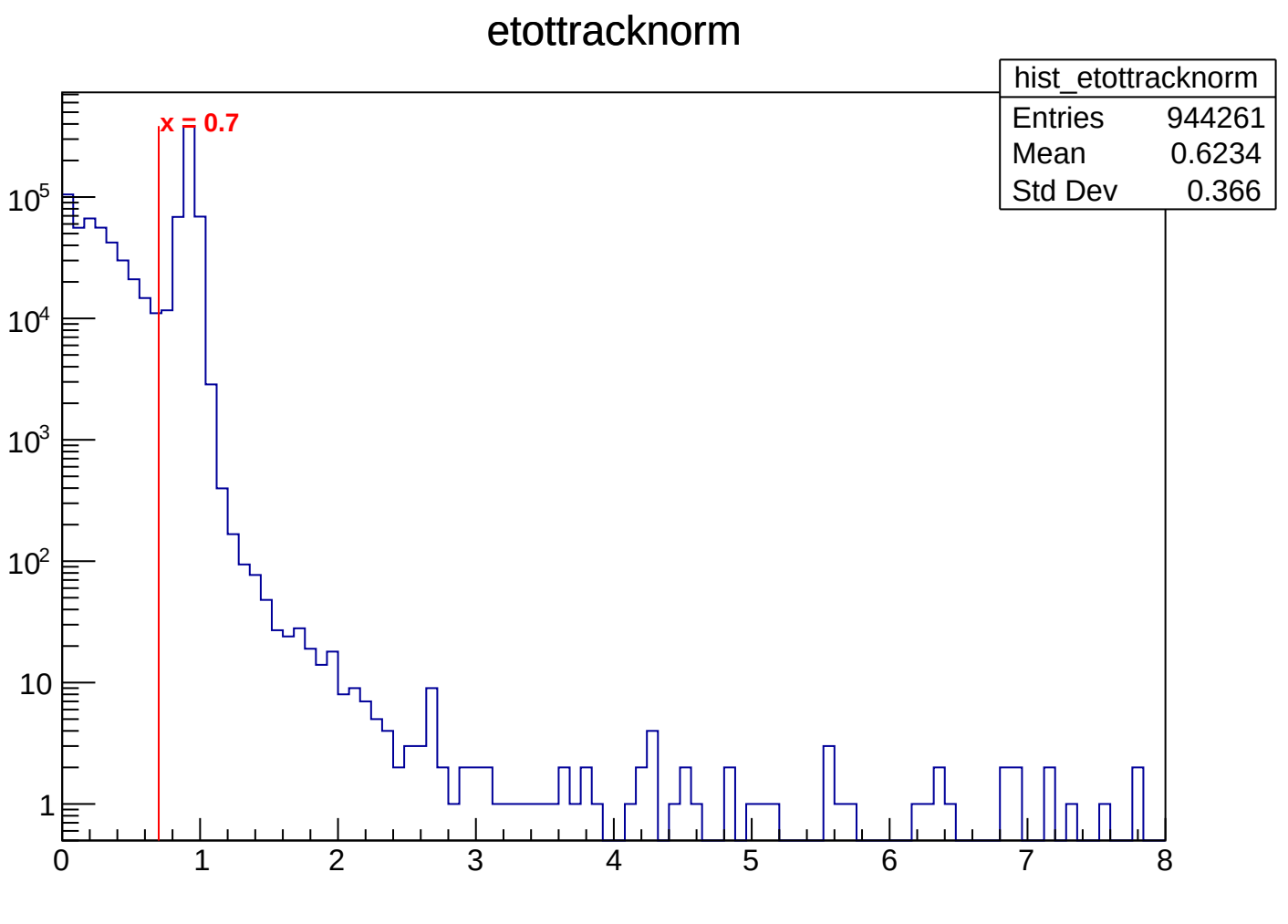
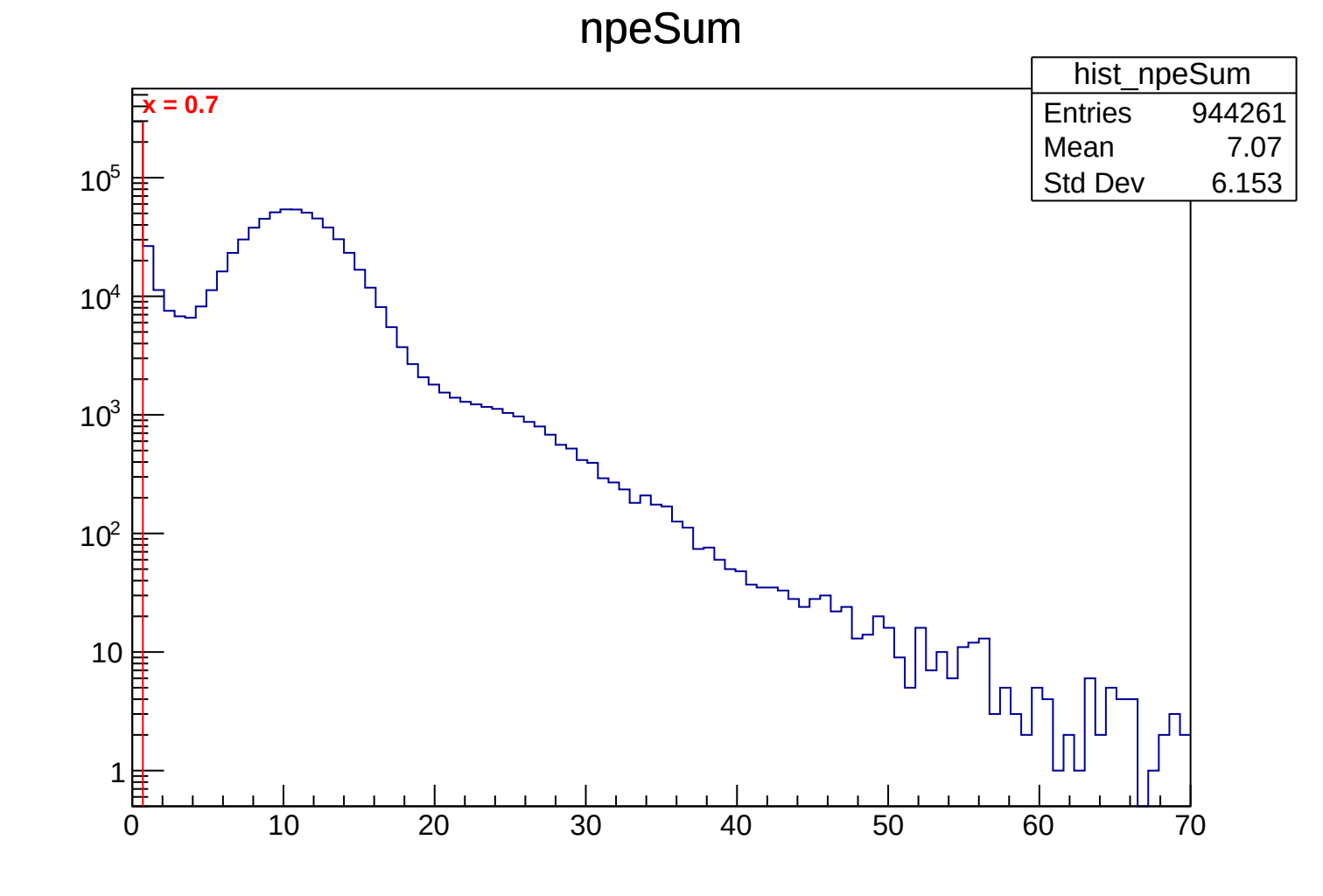
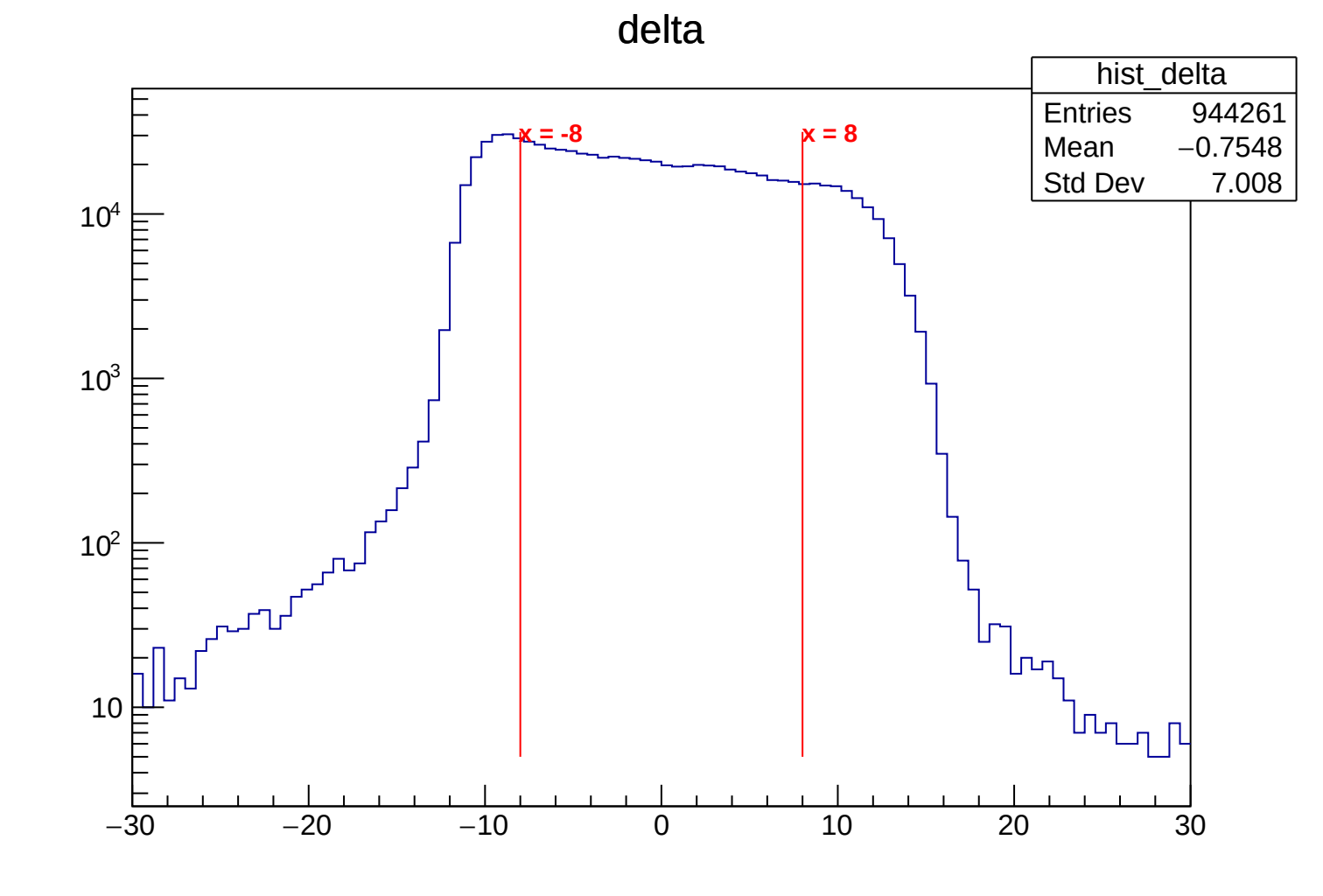
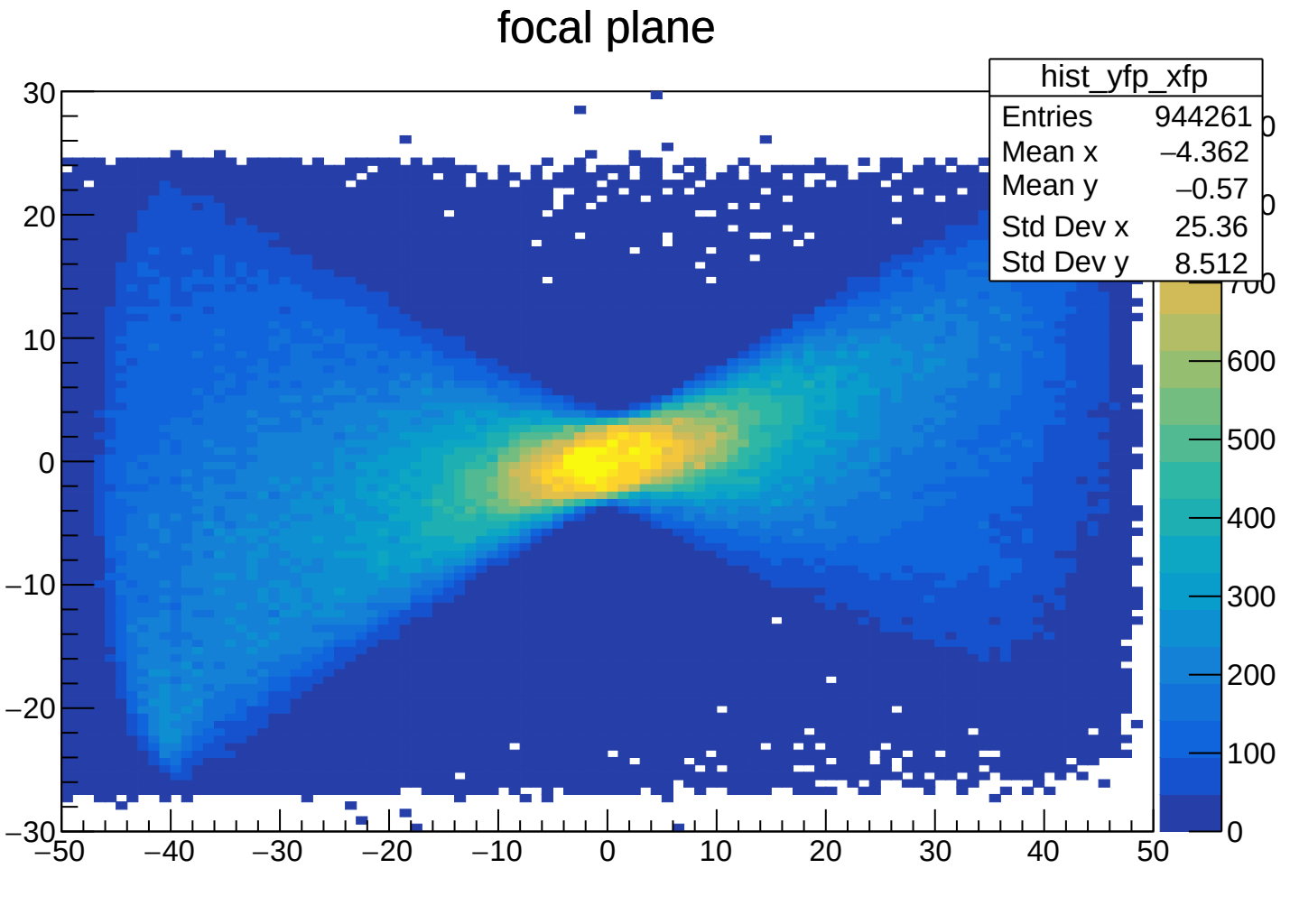
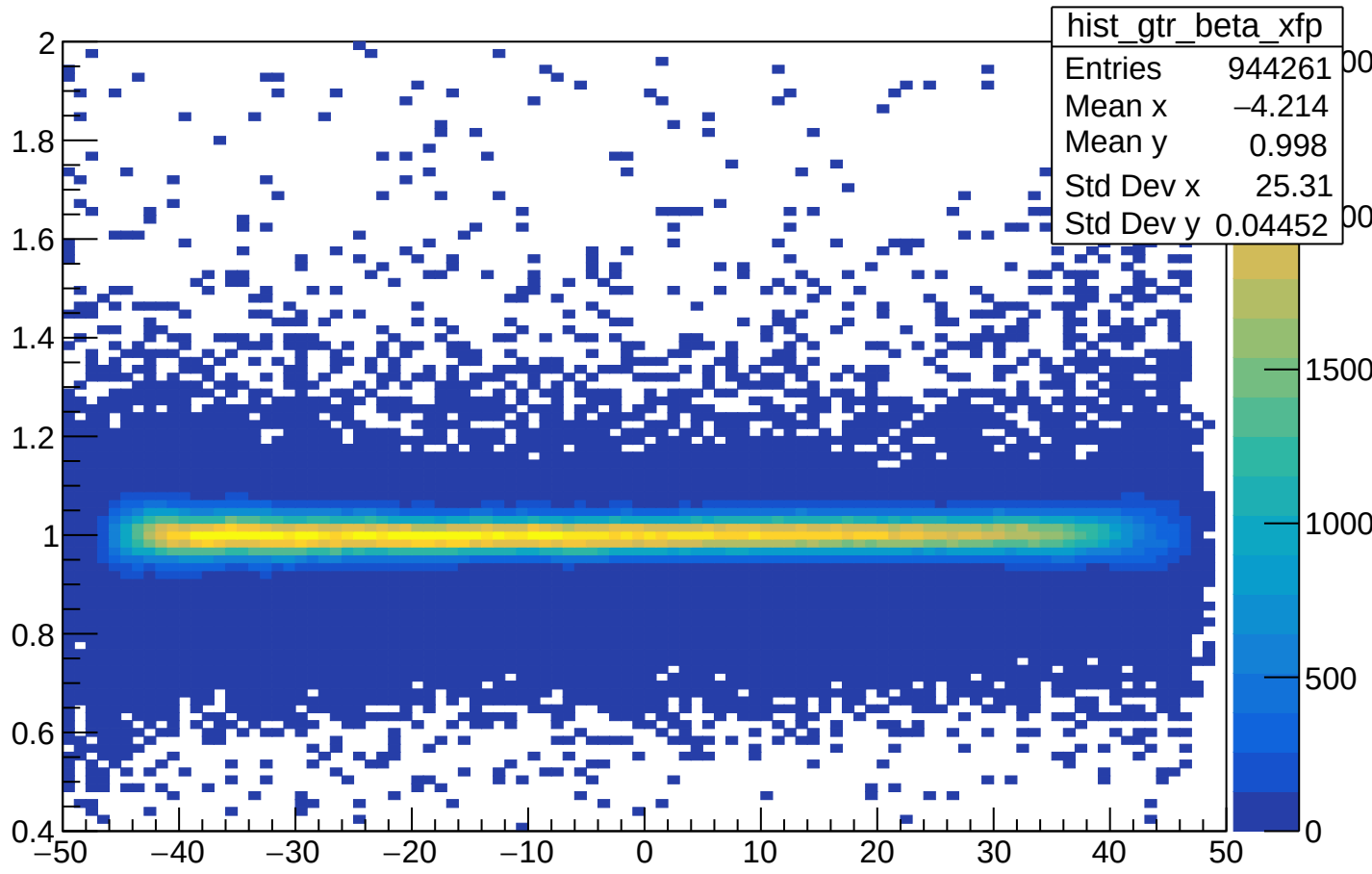

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0008 ± 0.0000
Sigma (no cuts) = 0.0289 ± 0.0000
Mean (PID) = 1.0019 ± 0.0000
Sigma (PID) = 0.0275 ± 0.0000
Mean (PID & delta) = 1.0014 ± 0.0000
Sigma (PID & delta) = 0.0256 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

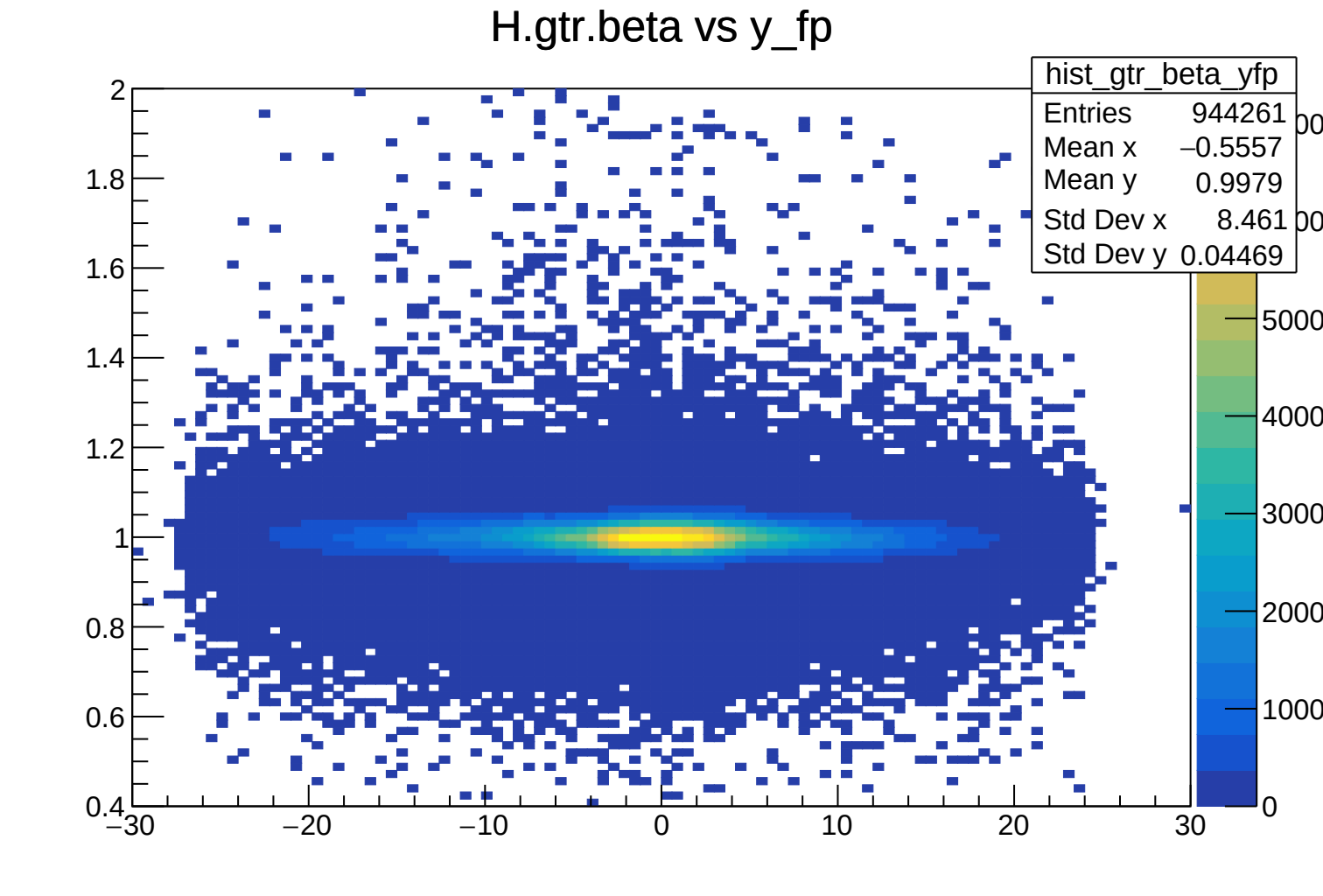

etottracknorm
hist_etottracknorm
Entries 944261
Mean 0.6234
Std Dev 0.366
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

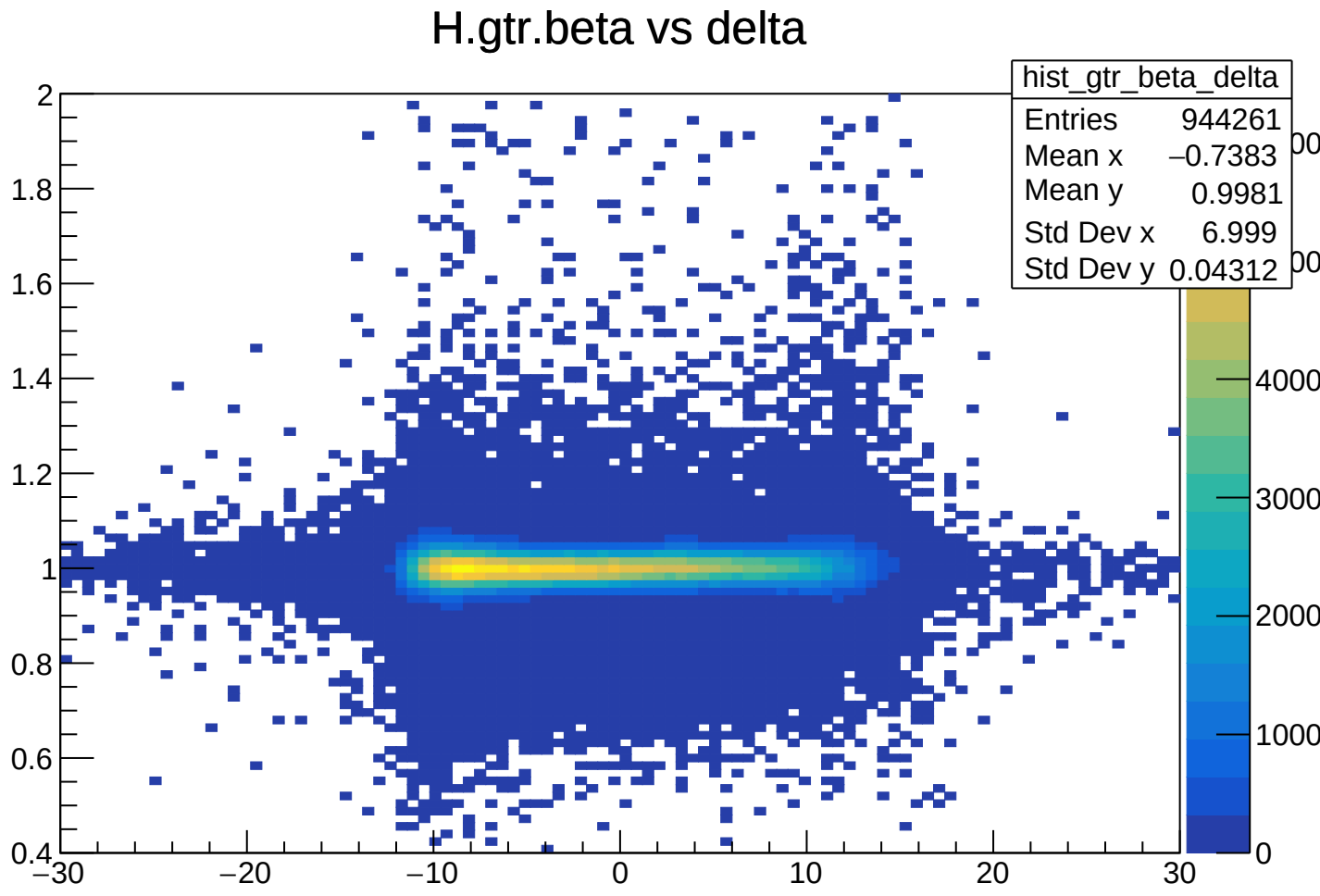

npeSum
hist_npeSum
Entries 944261
Mean 7.07
Std Dev 6.153
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

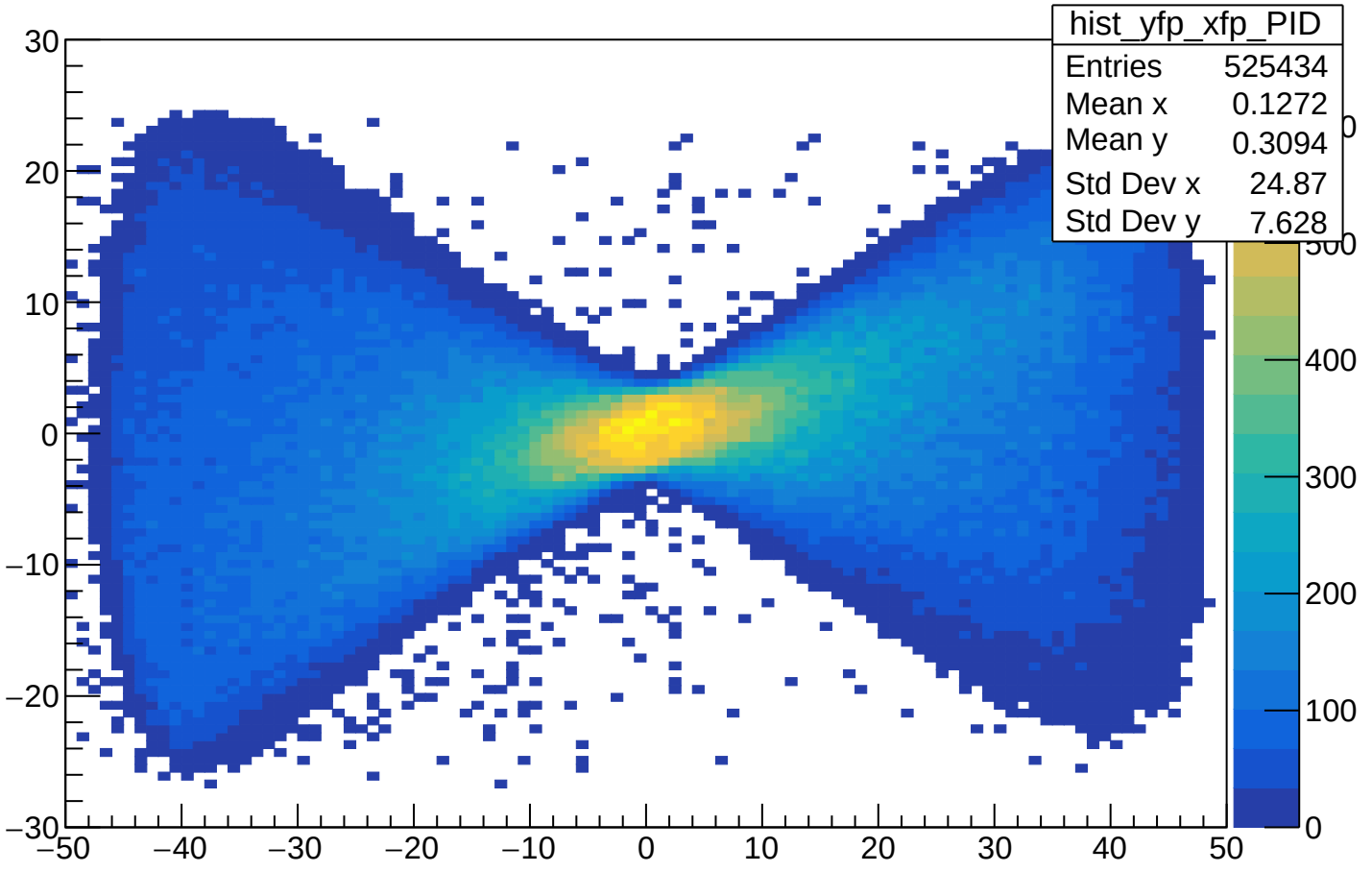

delta
hist_delta
Entries 944261
Mean −0.7548
Std Dev 7.008
x = -8
x = 8
10^4
10^3
10^2
10
−30
−20
−10
0
10
20
30

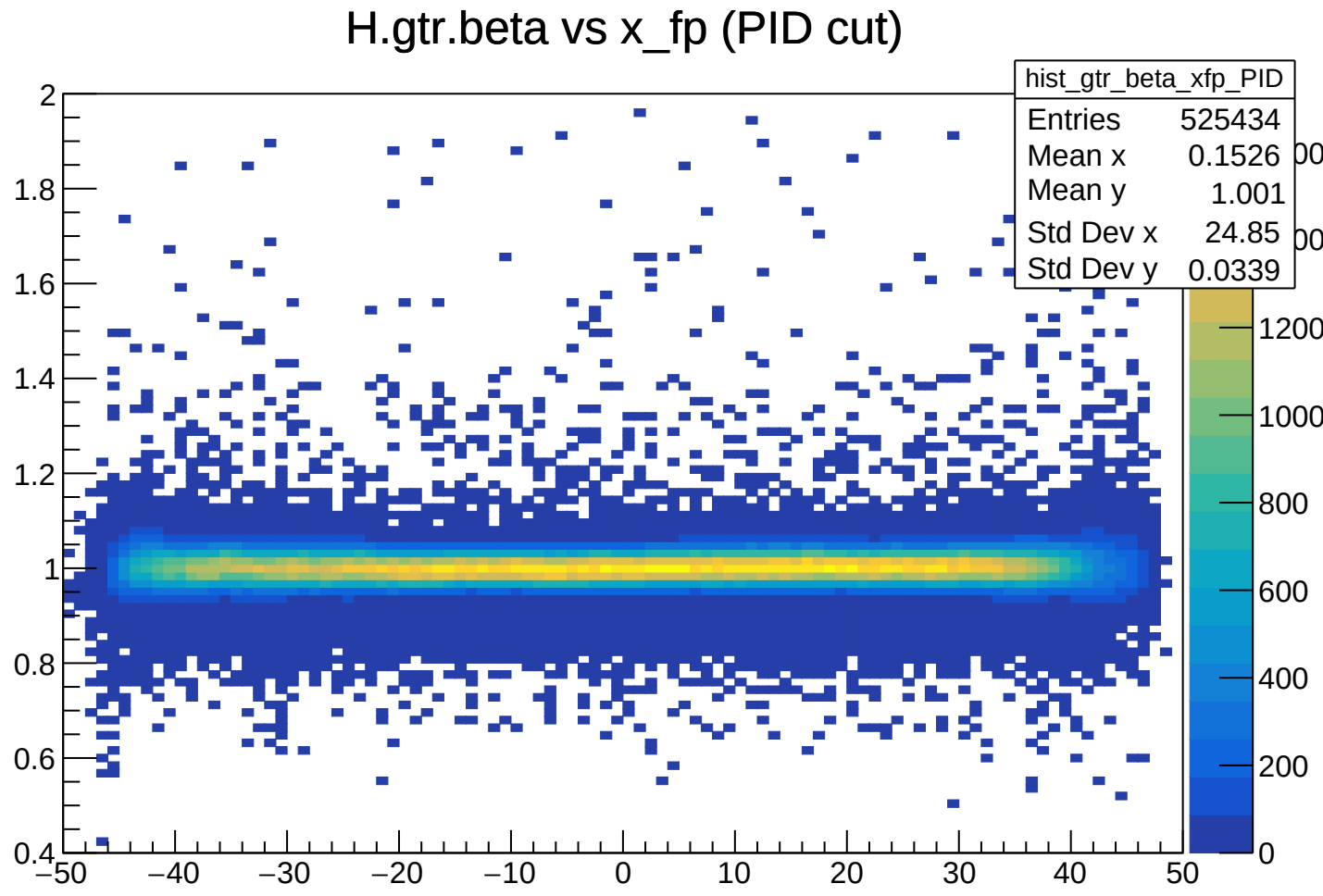

focal plane
hist_yfp_xfp
Entries 944261
Mean x –4.362
Mean y –0.57
Std Dev x 25.36
Std Dev y 8.512
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
600
500
400
300
200
100
0

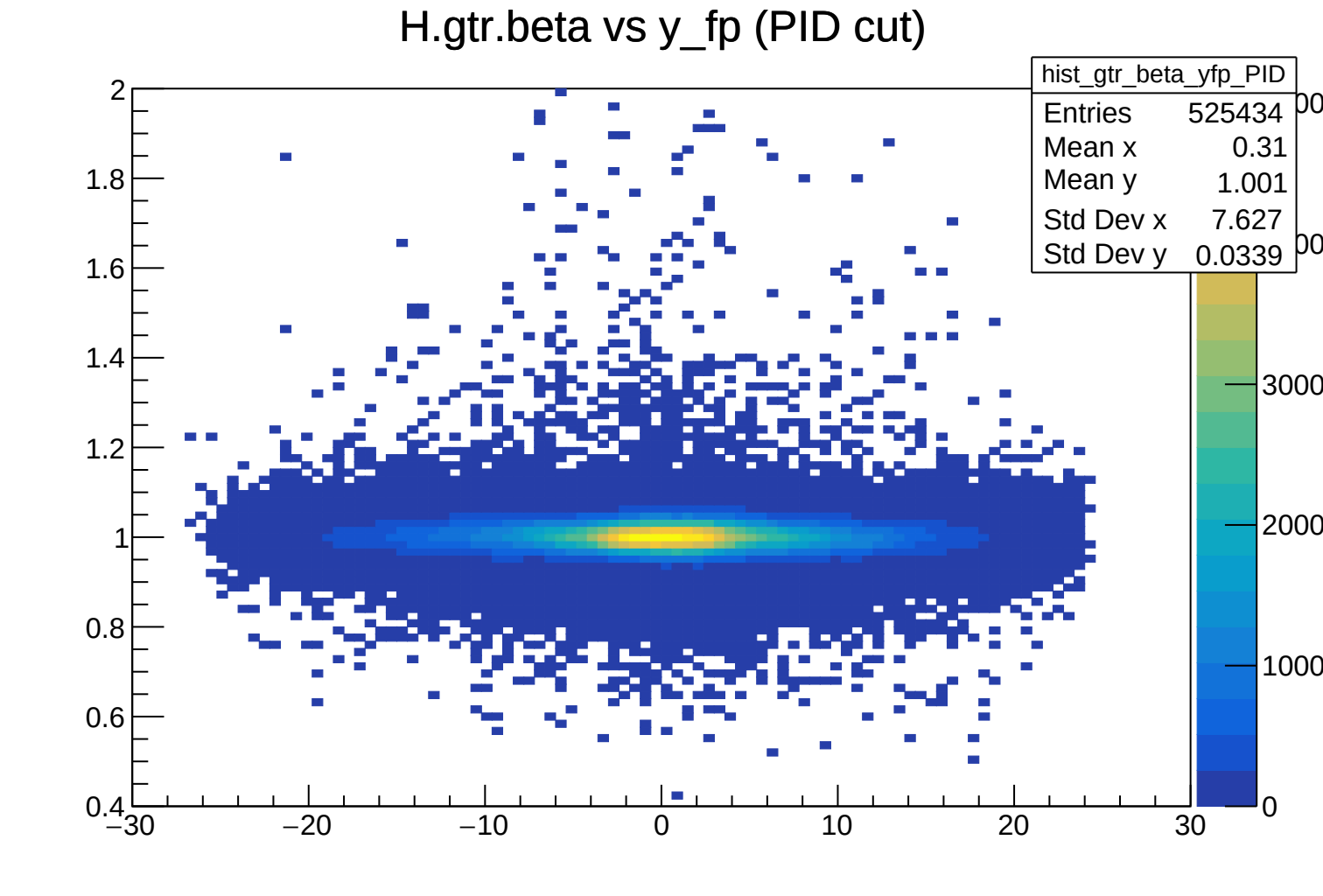

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 944261
Mean x −4.214
Mean y 0.998
Std Dev x 25.31
Std Dev y 0.04452
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
1500
1000
500
0

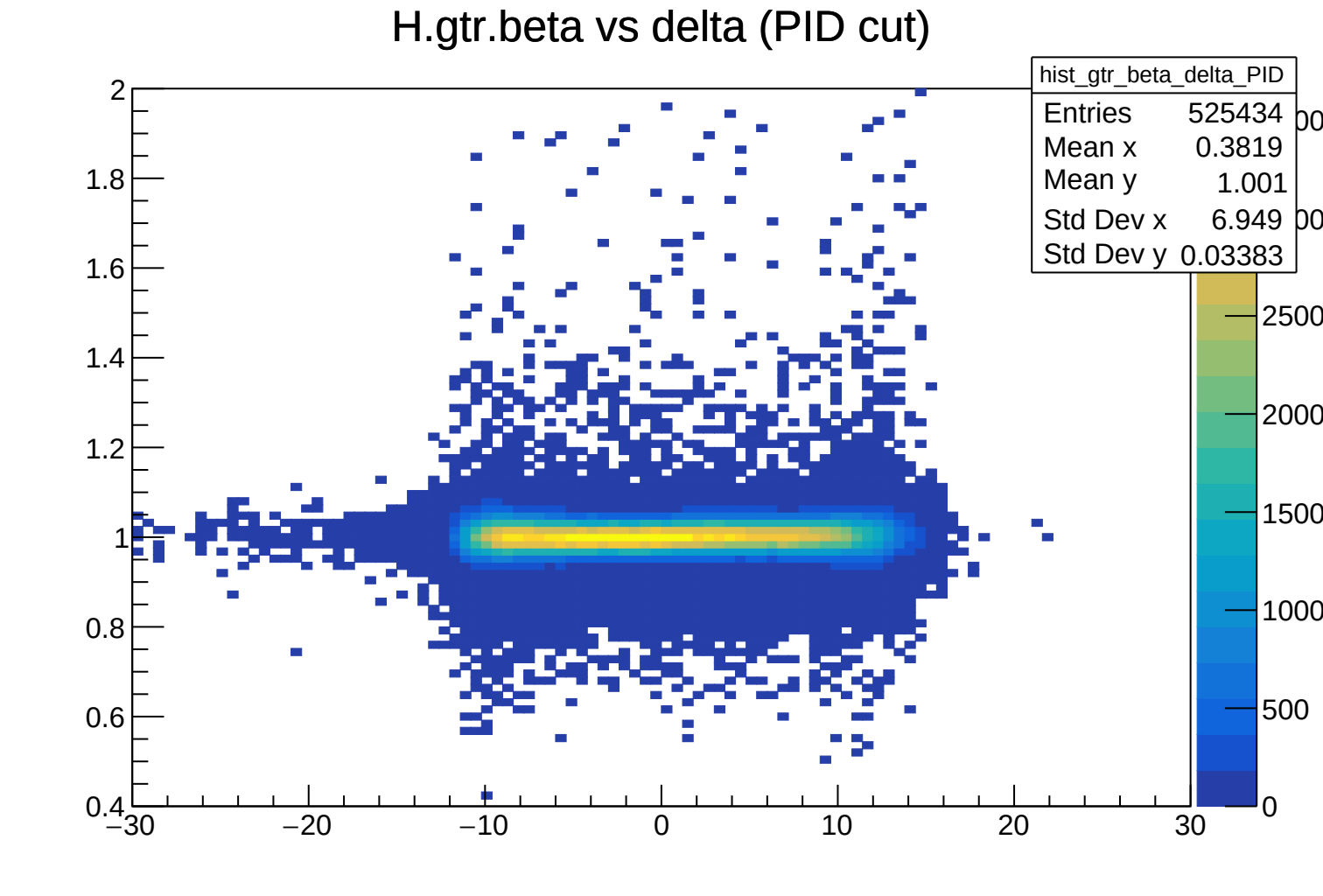

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 944261
Mean x −0.5557
Mean y 0.9979
Std Dev x 8.461
Std Dev y 0.04469
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
5000
4000
3000
2000
1000
0

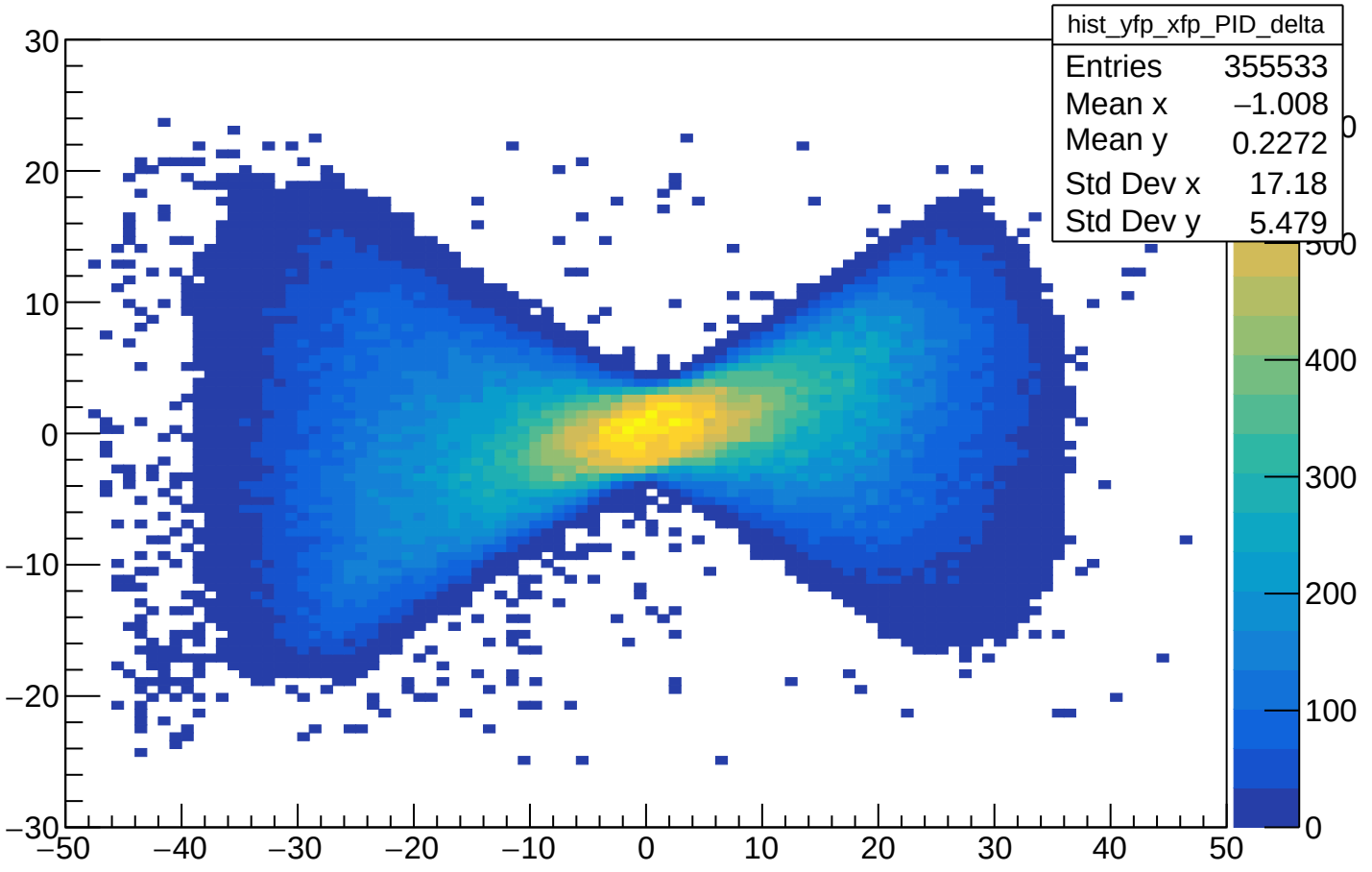

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 944261
Mean x −0.7383
Mean y 0.9981
Std Dev x 6.999
Std Dev y 0.04312
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
4000
3000
2000
1000
0

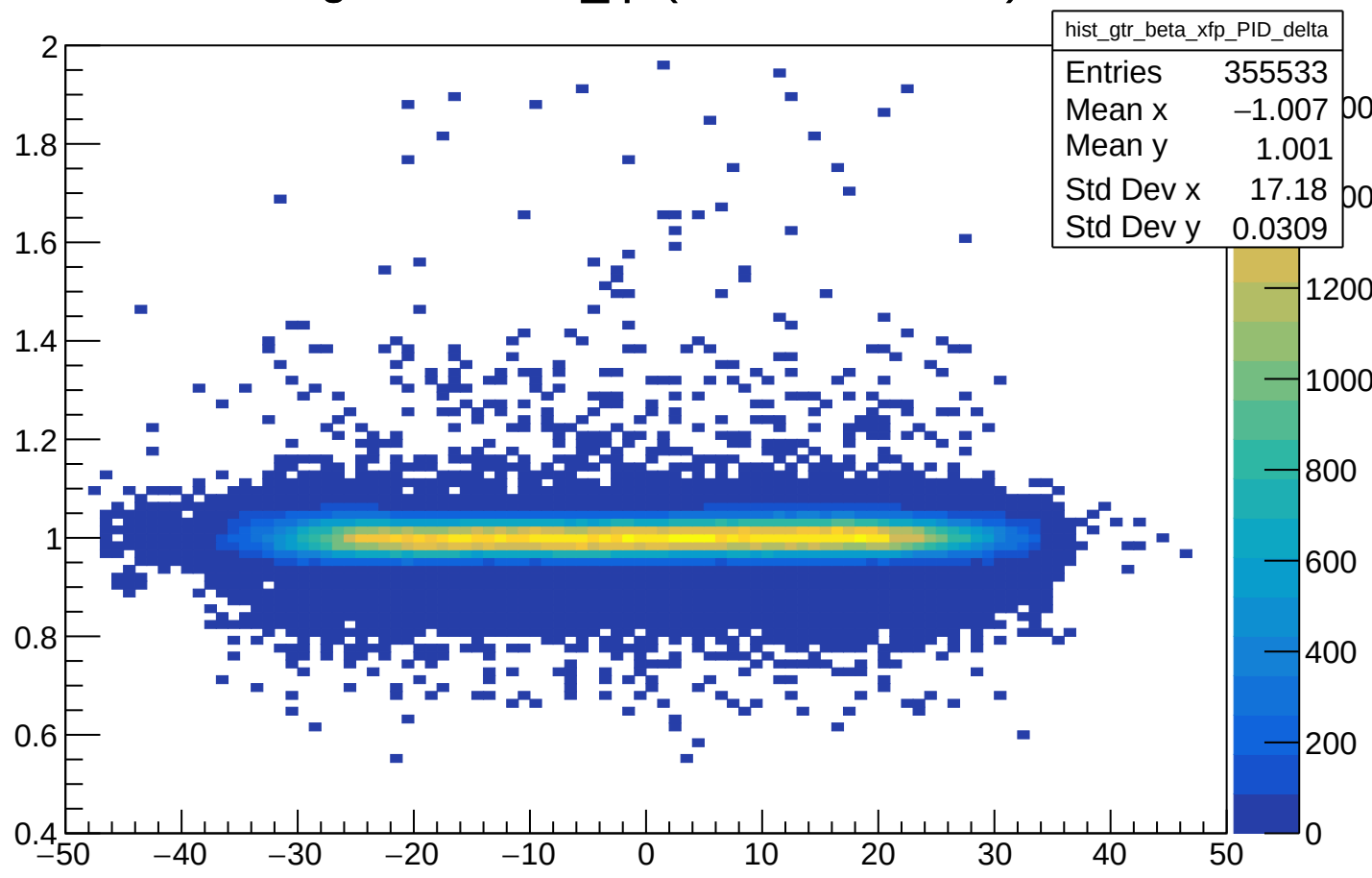

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 525434
Mean x 0.1272
Mean y 0.3094
Std Dev x 24.87
Std Dev y 7.628
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
500
400
300
200
100
0

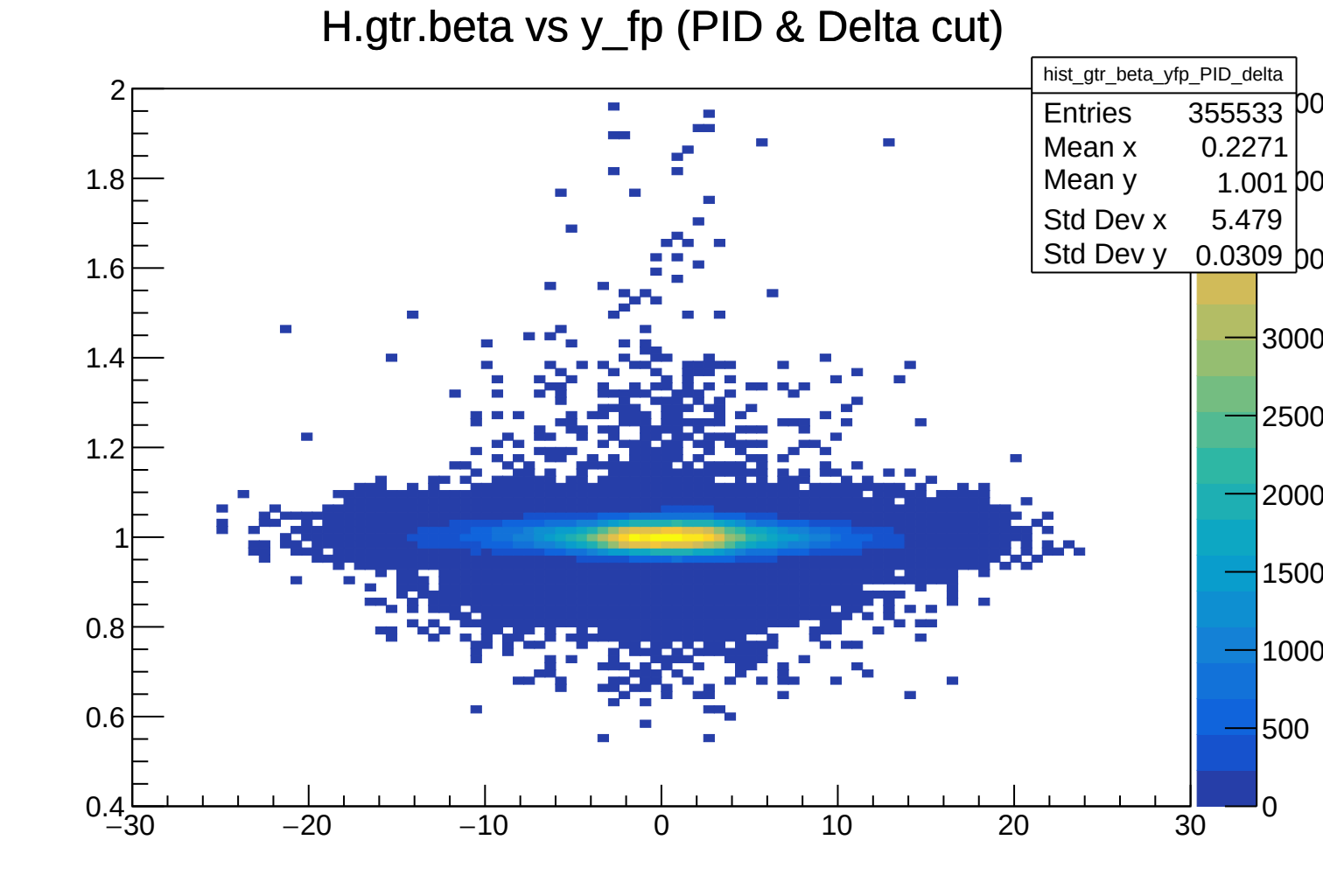

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 525434
Mean x 0.1526
Mean y 1.001
Std Dev x 24.85
Std Dev y 0.0339
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
1200
1000
800
600
400
200
0

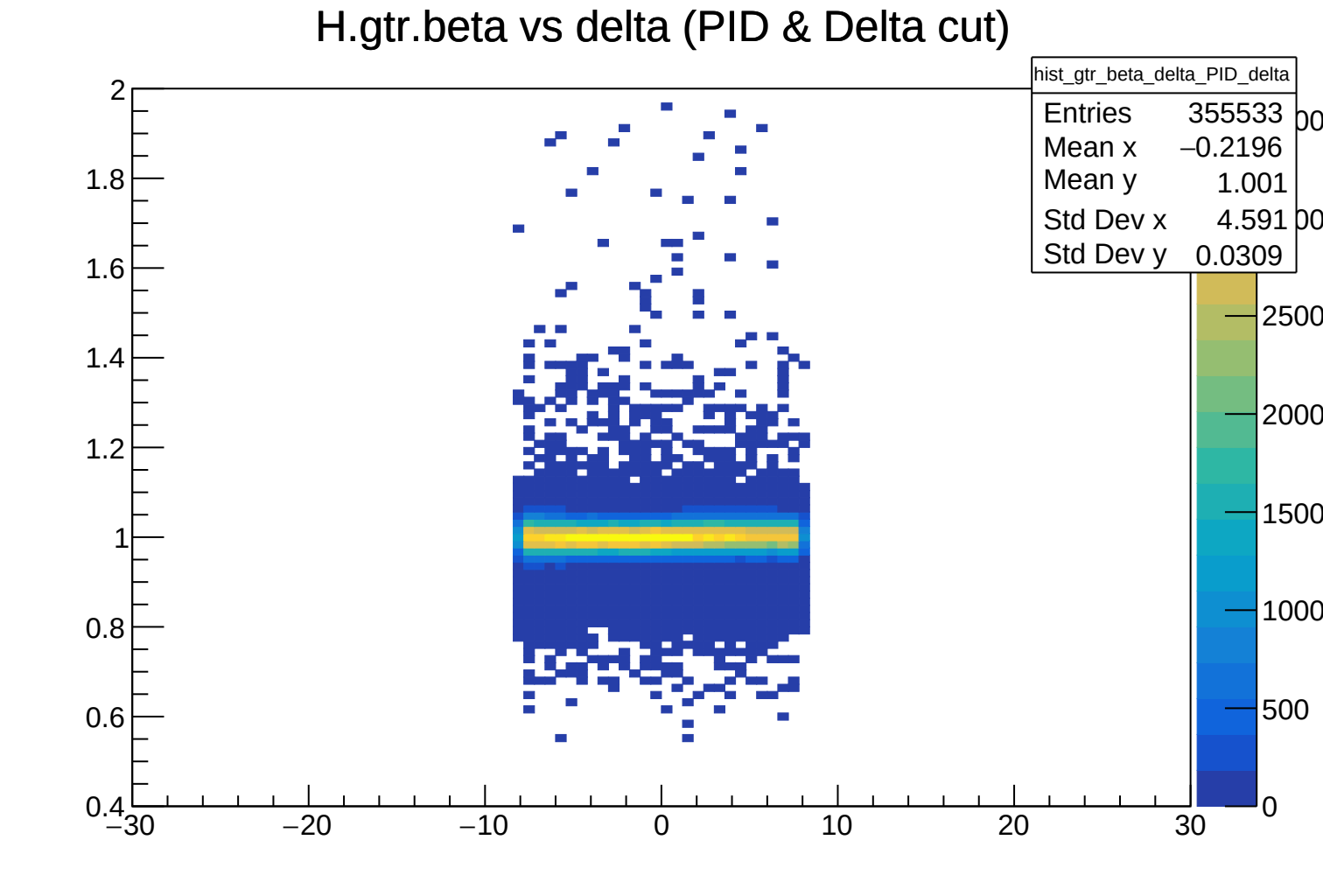

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 525434
Mean x 0.31
Mean y 1.001
Std Dev x 7.627
Std Dev y 0.0339
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
3000
2000
1000
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 525434
Mean x 0.3819
Mean y 1.001
Std Dev x 6.949
Std Dev y 0.03383
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2500
2000
1500
1000
500
0


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 355533
Mean x −1.008
Mean y 0.2272
Std Dev x 17.18
Std Dev y 5.479
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 355533
Mean x −1.007
Mean y 1.001
Std Dev x 17.18
Std Dev y 0.0309
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
1200
1000
800
600
400
200
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 355533
Mean x 0.2271
Mean y 1.001
Std Dev x 5.479
Std Dev y 0.0309
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
3000
2500
2000
1500
1000
500
0


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 355533
Mean x −0.2196
Mean y 1.001
Std Dev x 4.591
Std Dev y 0.0309
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2500
2000
1500
1000
500
0