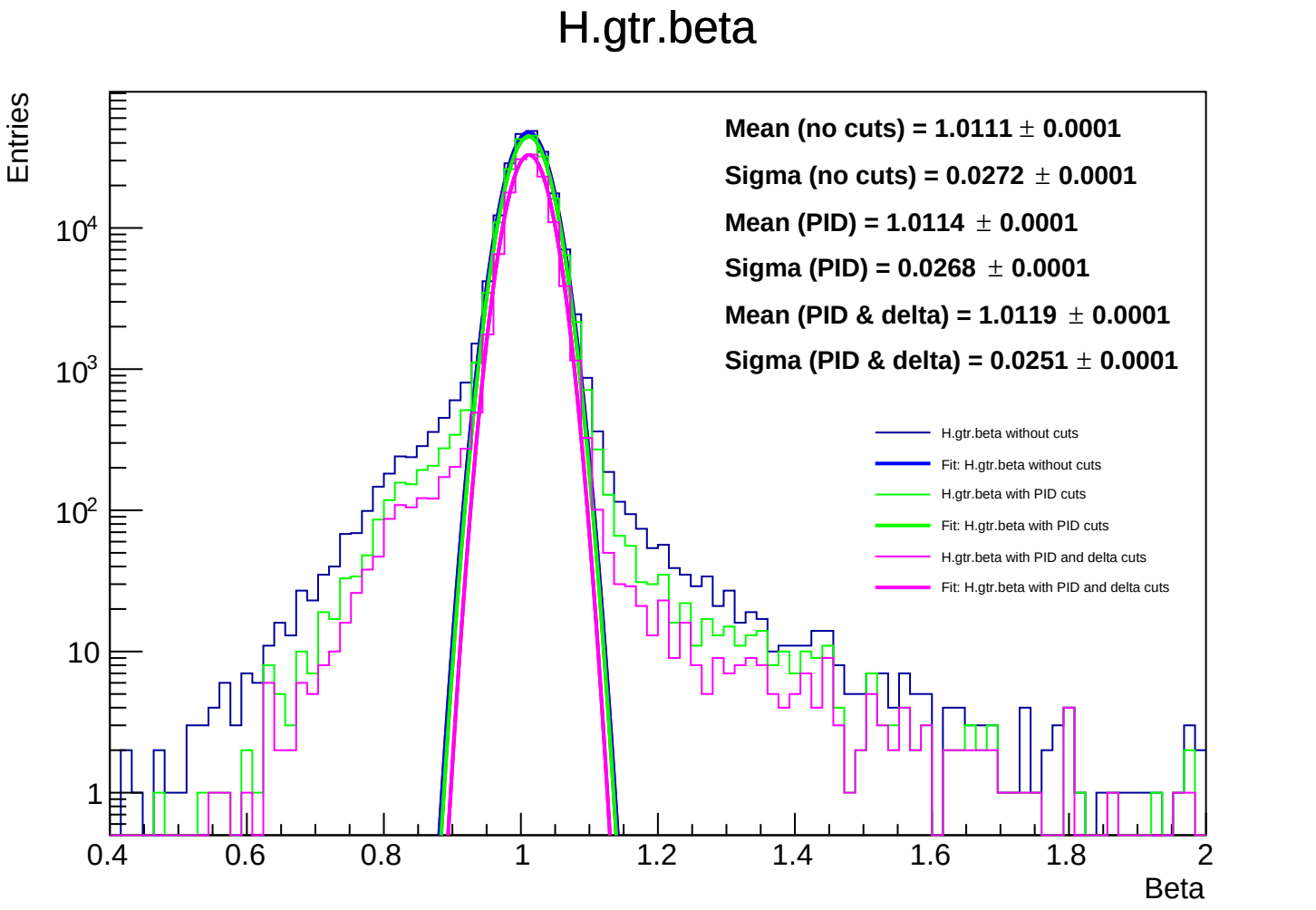
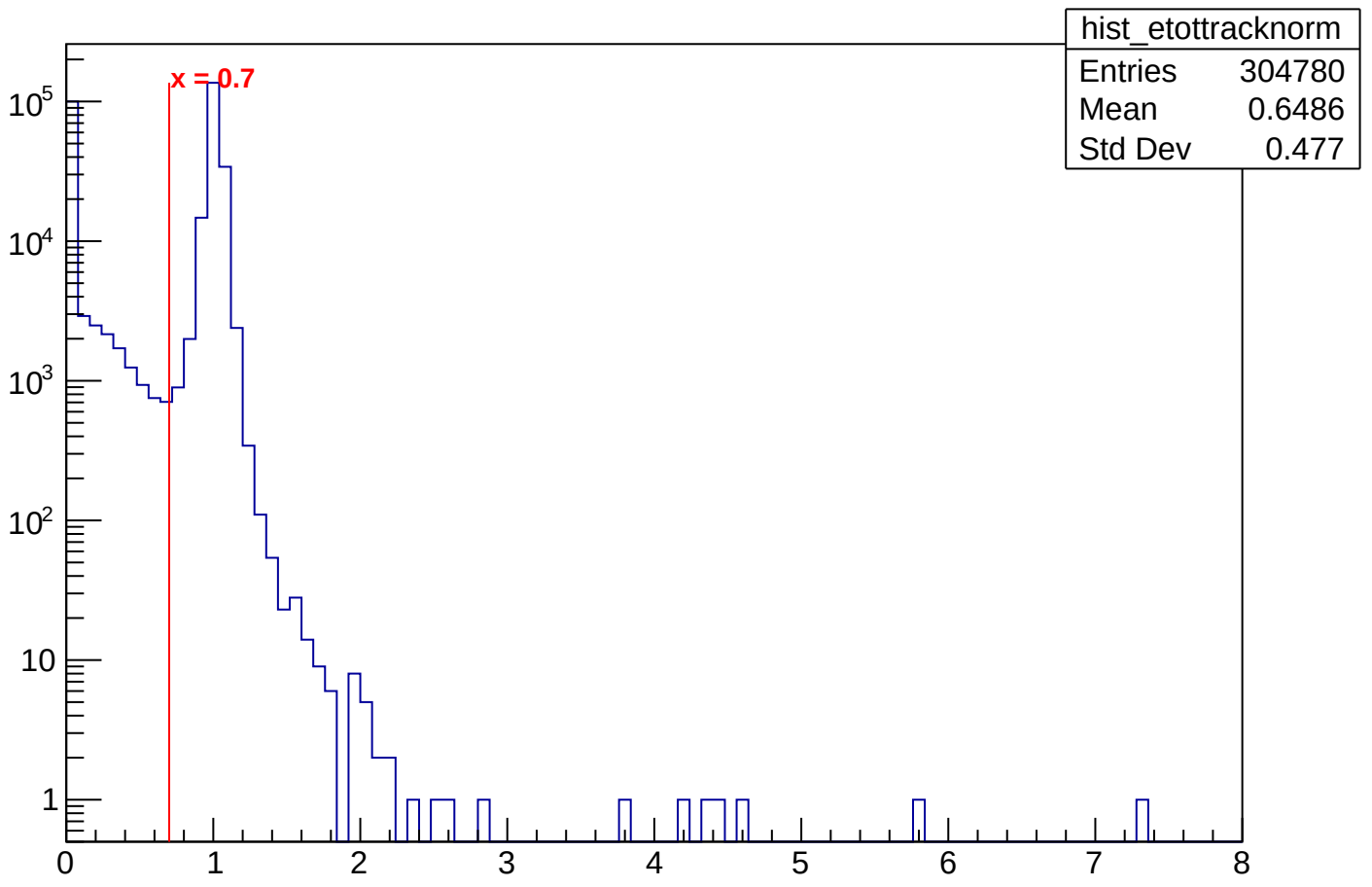
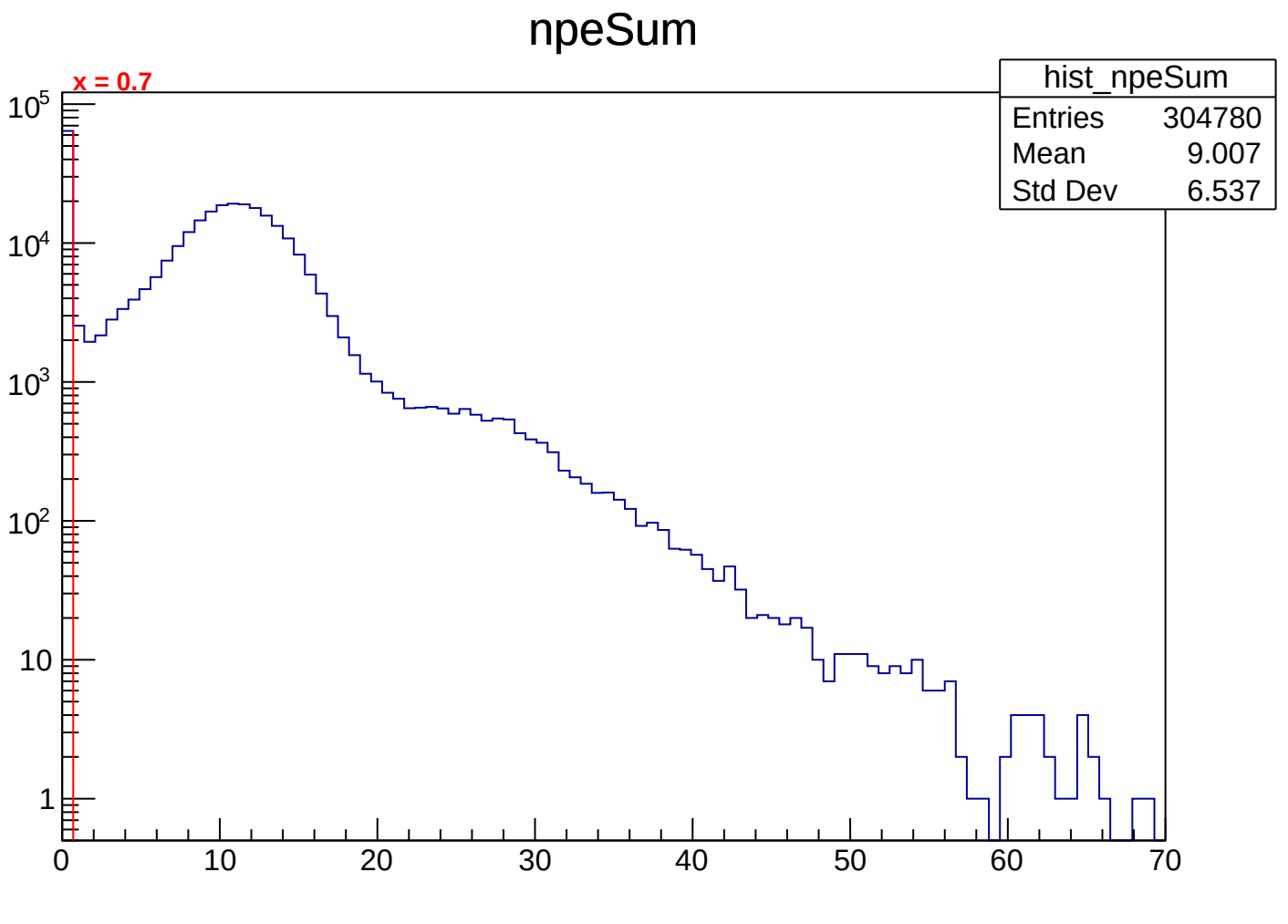
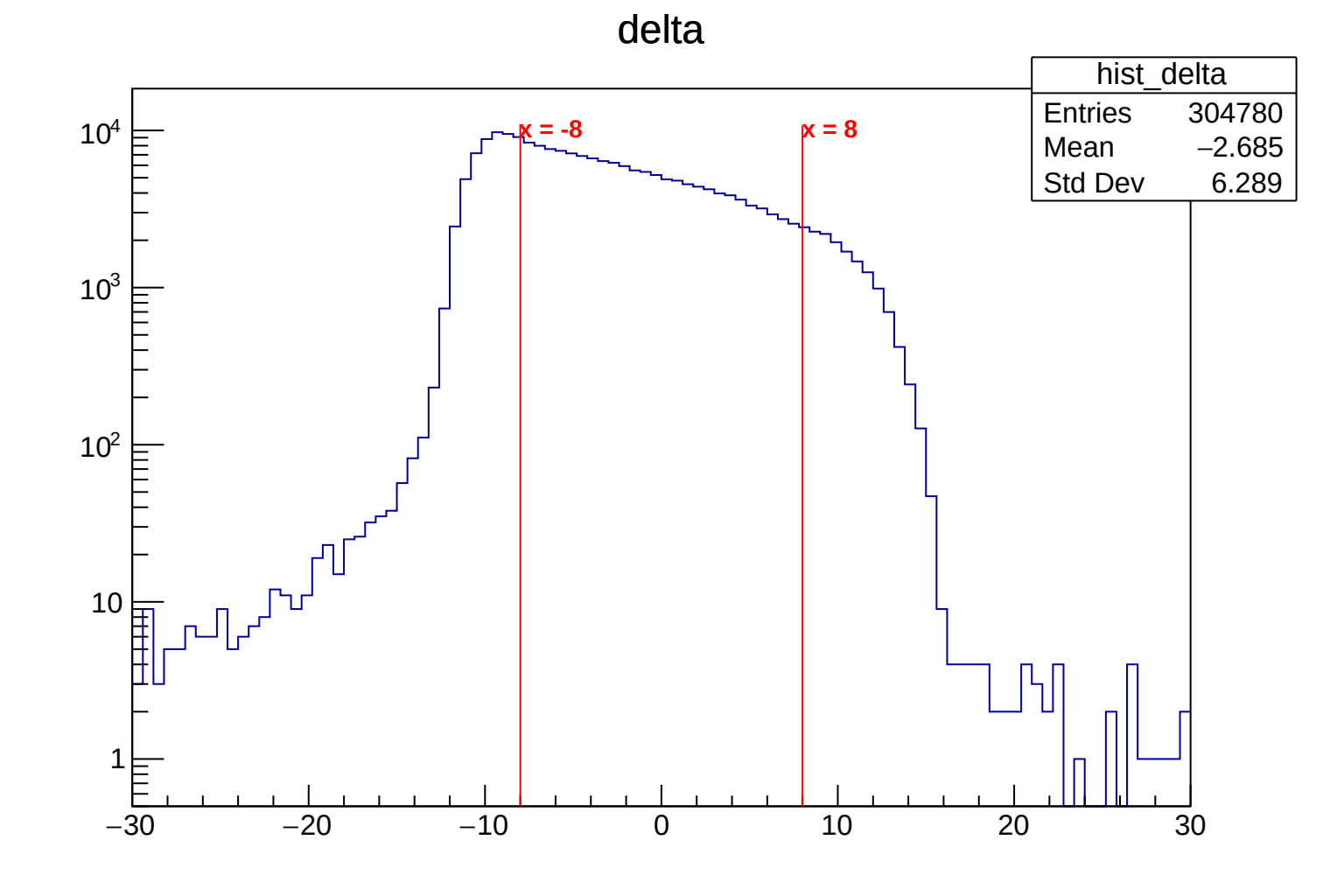
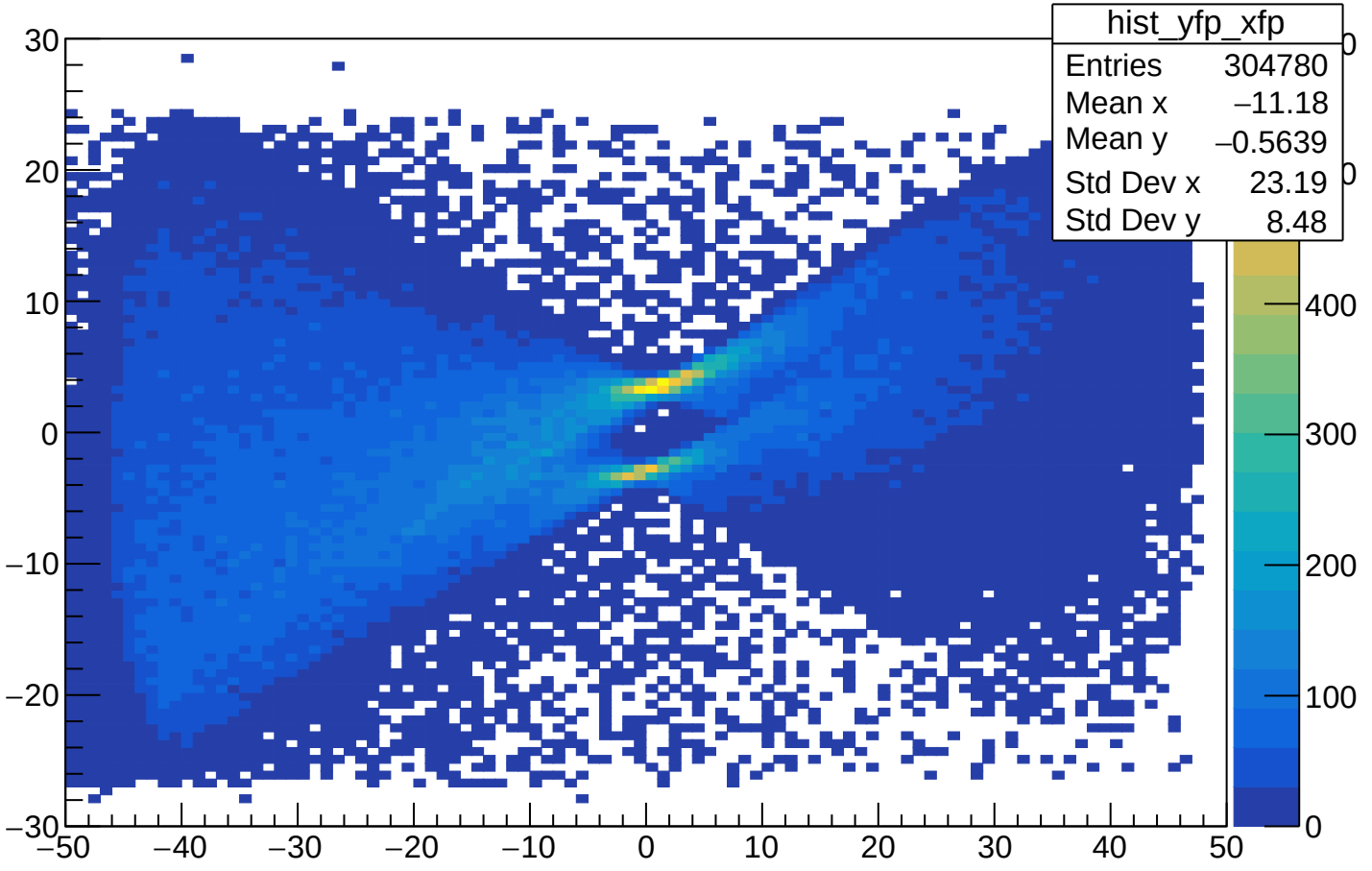
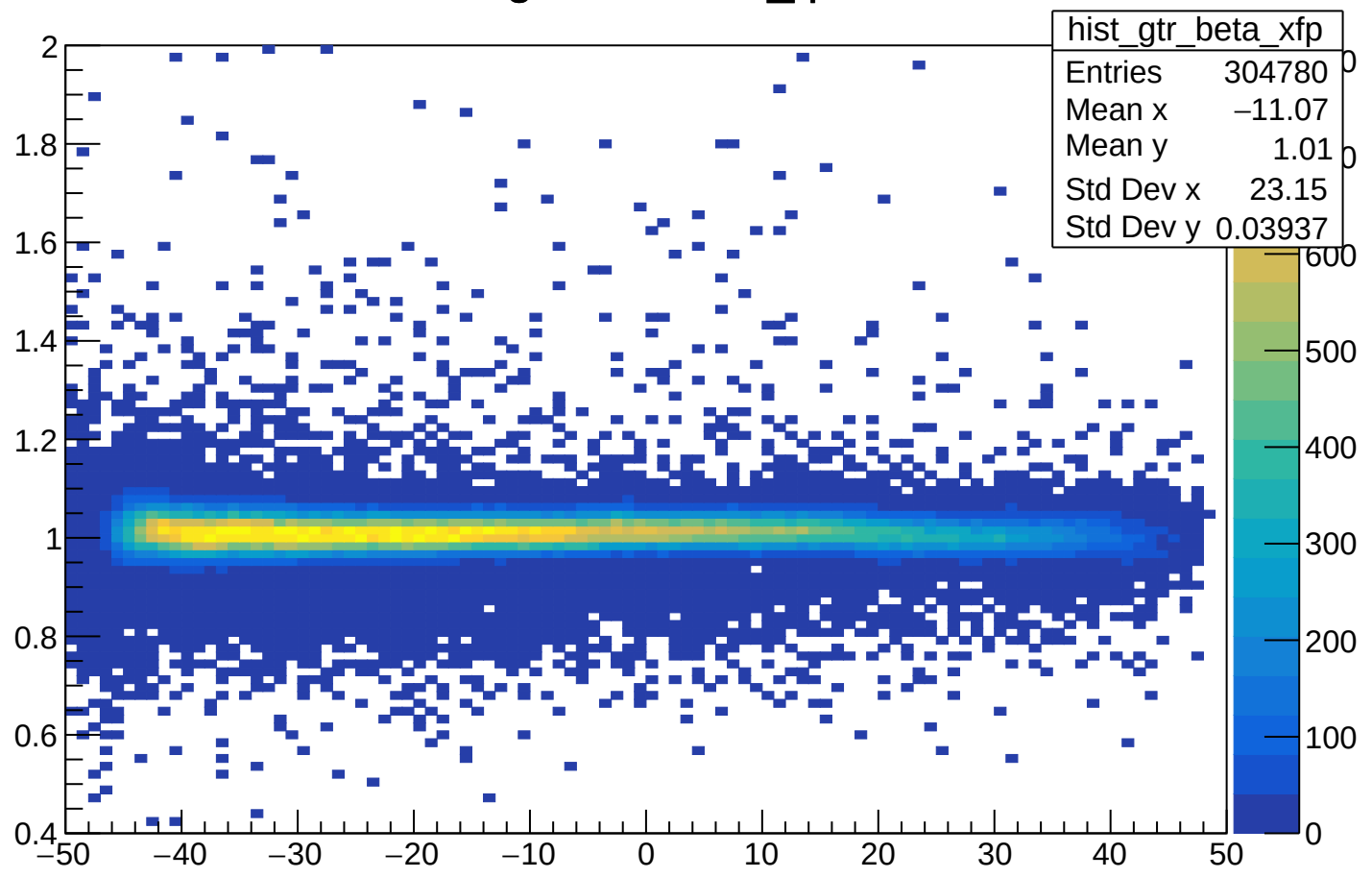

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0111 ± 0.0001
Sigma (no cuts) = 0.0272 ± 0.0001
Mean (PID) = 1.0114 ± 0.0001
Sigma (PID) = 0.0268 ± 0.0001
Mean (PID & delta) = 1.0119 ± 0.0001
Sigma (PID & delta) = 0.0251 ± 0.0001
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

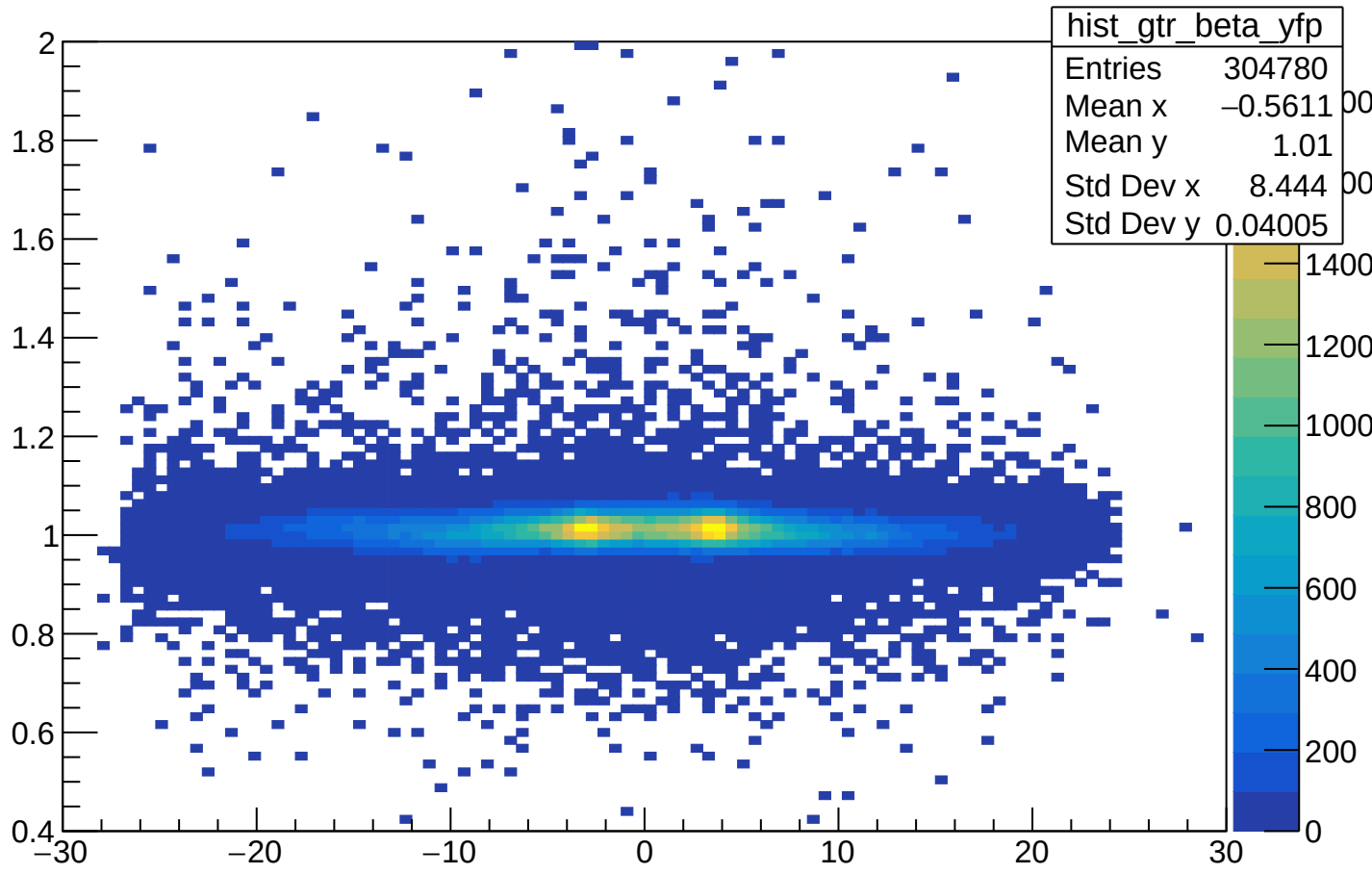

etottracknorm
hist_etottracknorm
Entries 304780
Mean 0.6486
Std Dev 0.477
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

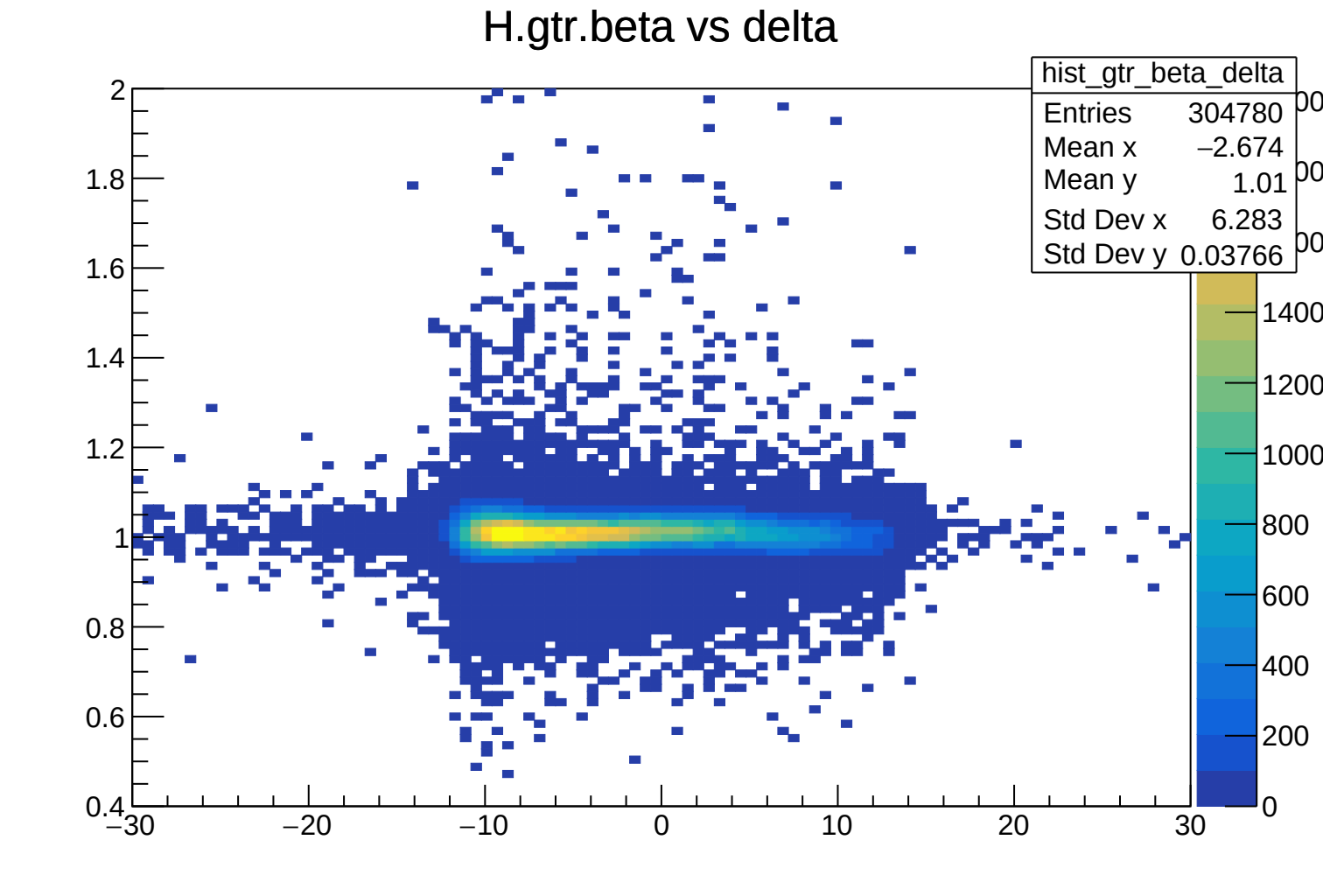

npeSum
x = 0.7
hist_npeSum
Entries 304780
Mean 9.007
Std Dev 6.537
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

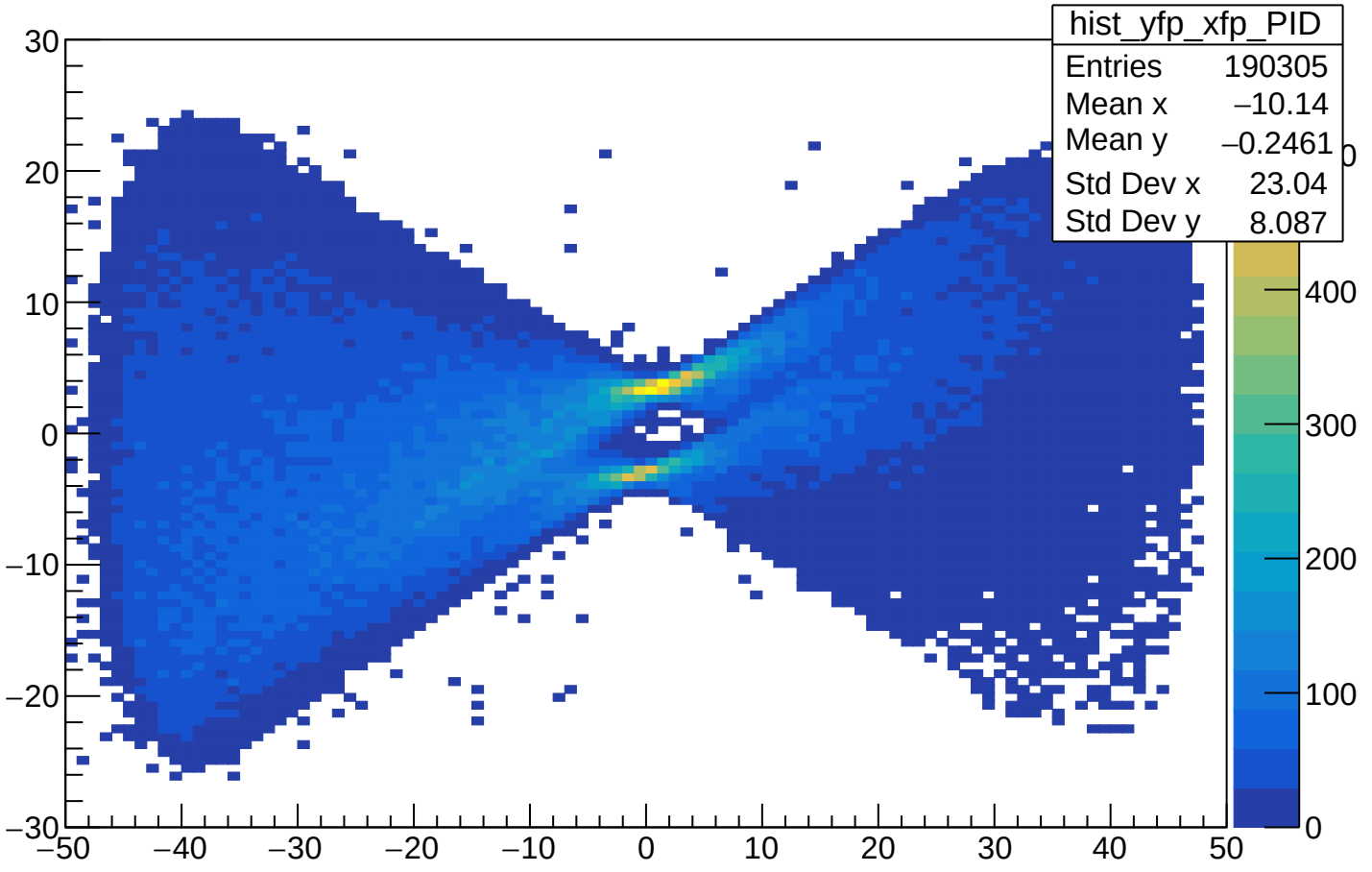

delta
hist_delta
Entries 304780
Mean −2.685
Std Dev 6.289
x = -8
x = 8
10^4
10^3
10^2
10
1
−30
−20
−10
0
10
20
30

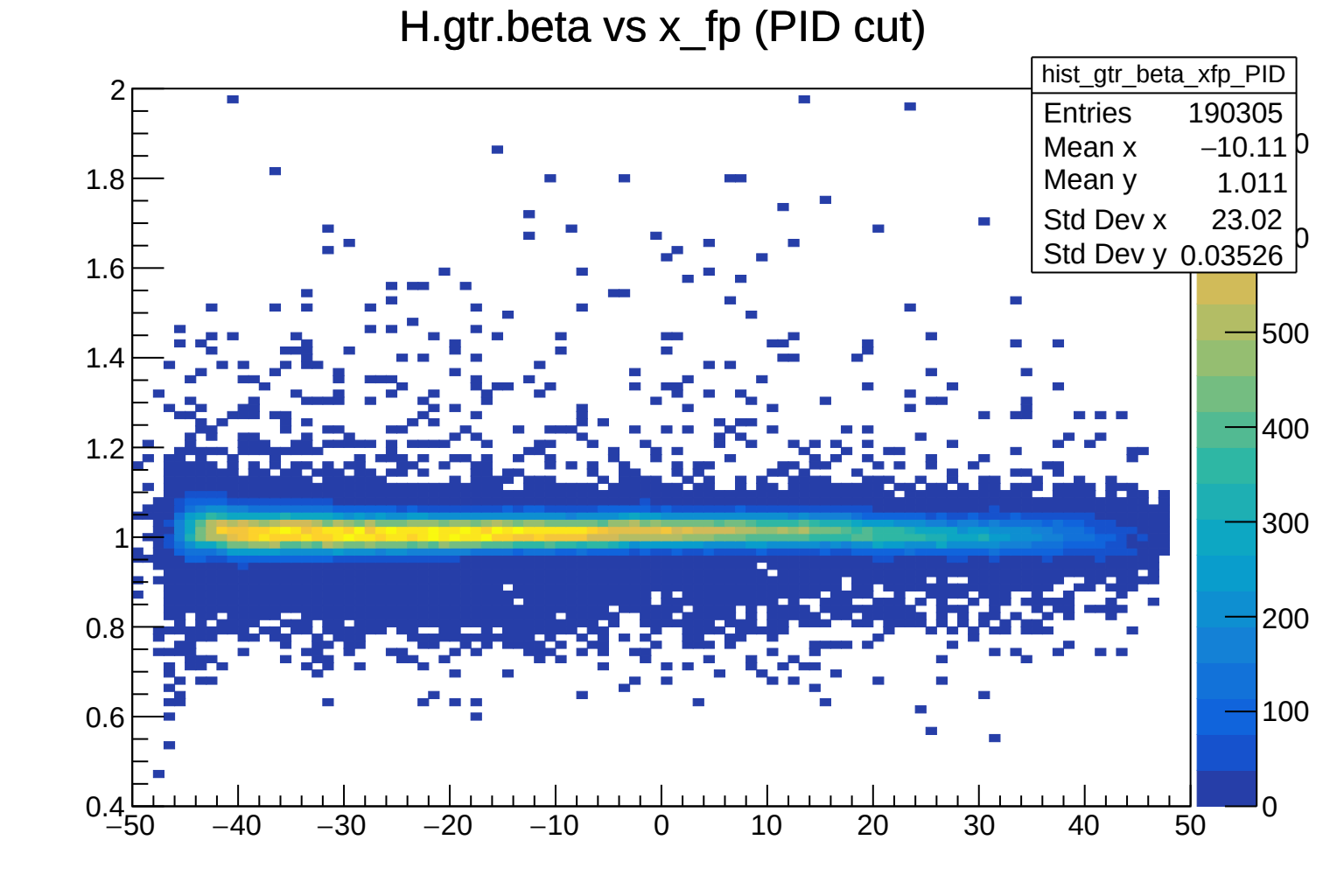

focal plane
hist_yfp_xfp
Entries 304780
Mean x −11.18
Mean y −0.5639
Std Dev x 23.19
Std Dev y 8.48
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
400
300
200
100
0

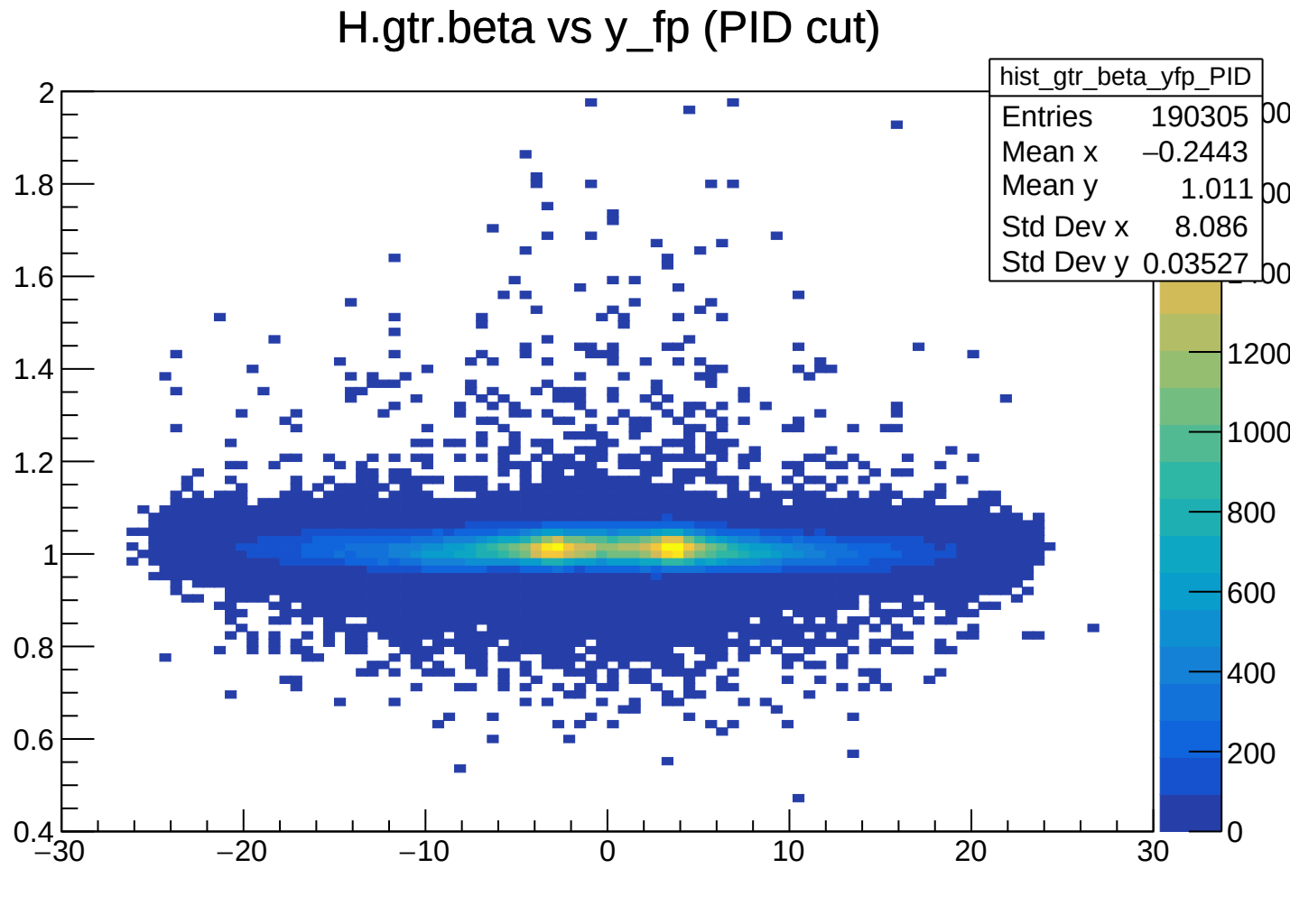

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 304780
Mean x −11.07
Mean y 1.01
Std Dev x 23.15
Std Dev y 0.03937
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
600
500
400
300
200
100
0

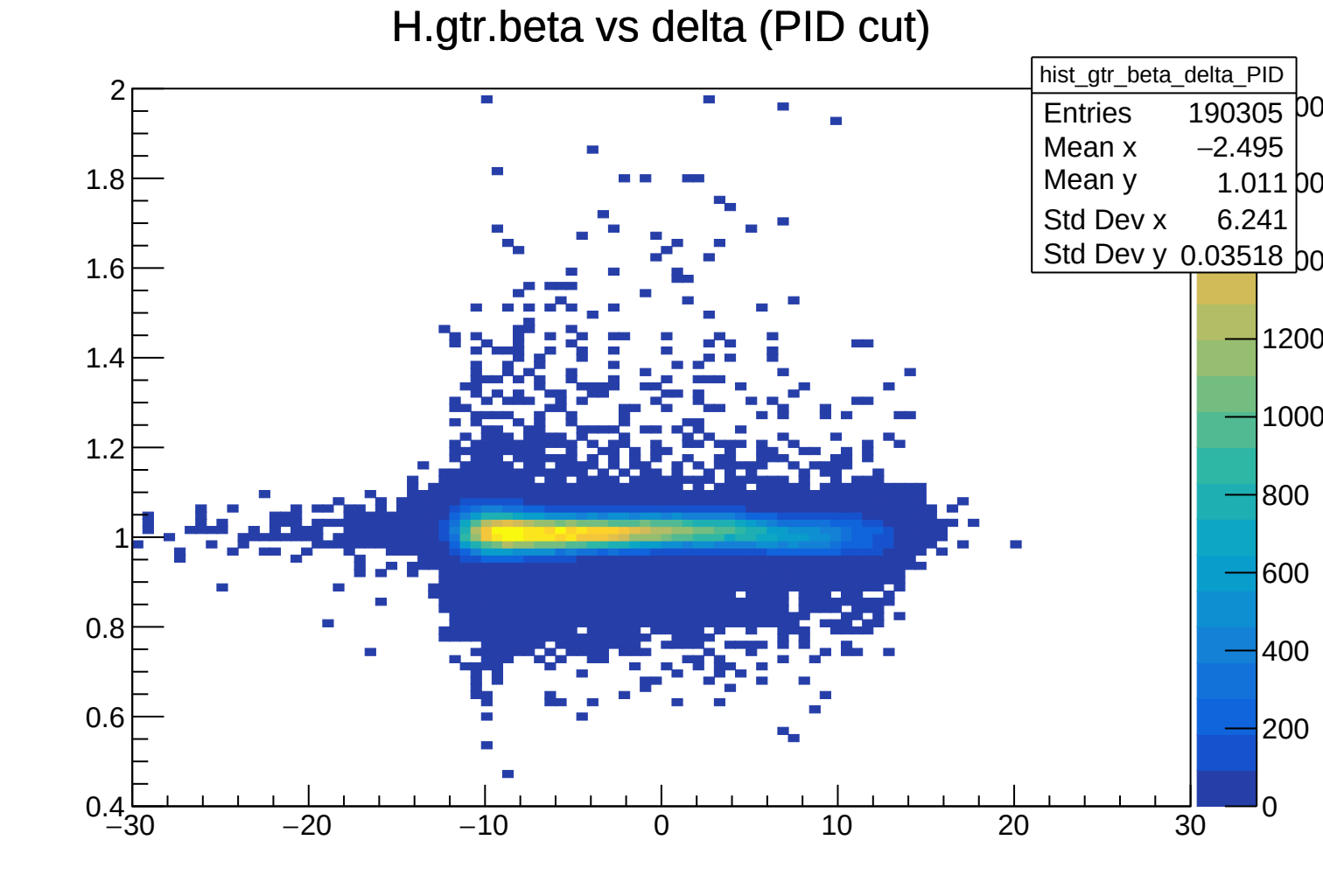

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 304780
Mean x −0.5611
Mean y 1.01
Std Dev x 8.444
Std Dev y 0.04005
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1400
1200
1000
800
600
400
200
0

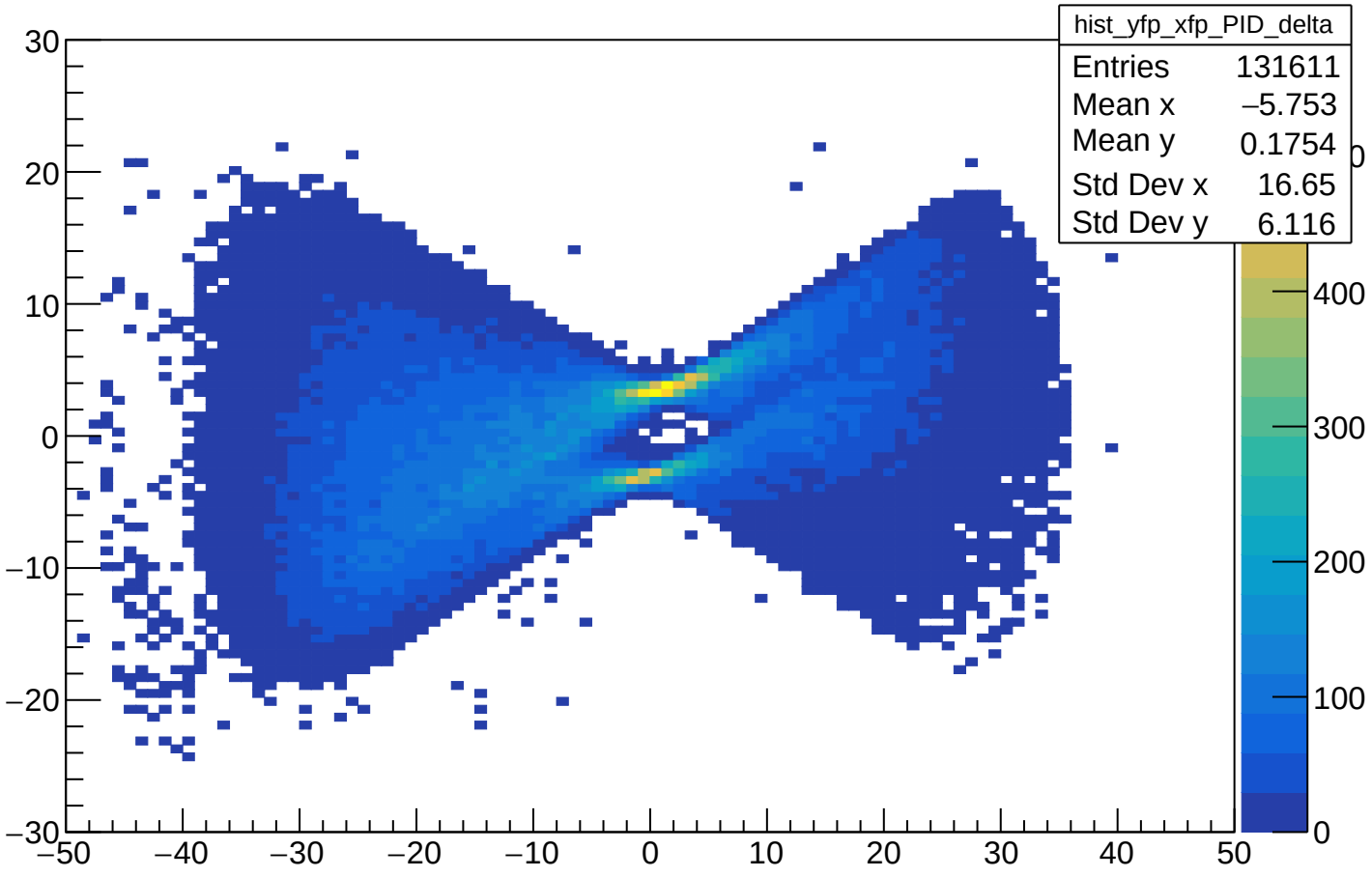

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 304780
Mean x −2.674
Mean y 1.01
Std Dev x 6.283
Std Dev y 0.03766
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1400
1200
1000
800
600
400
200
0

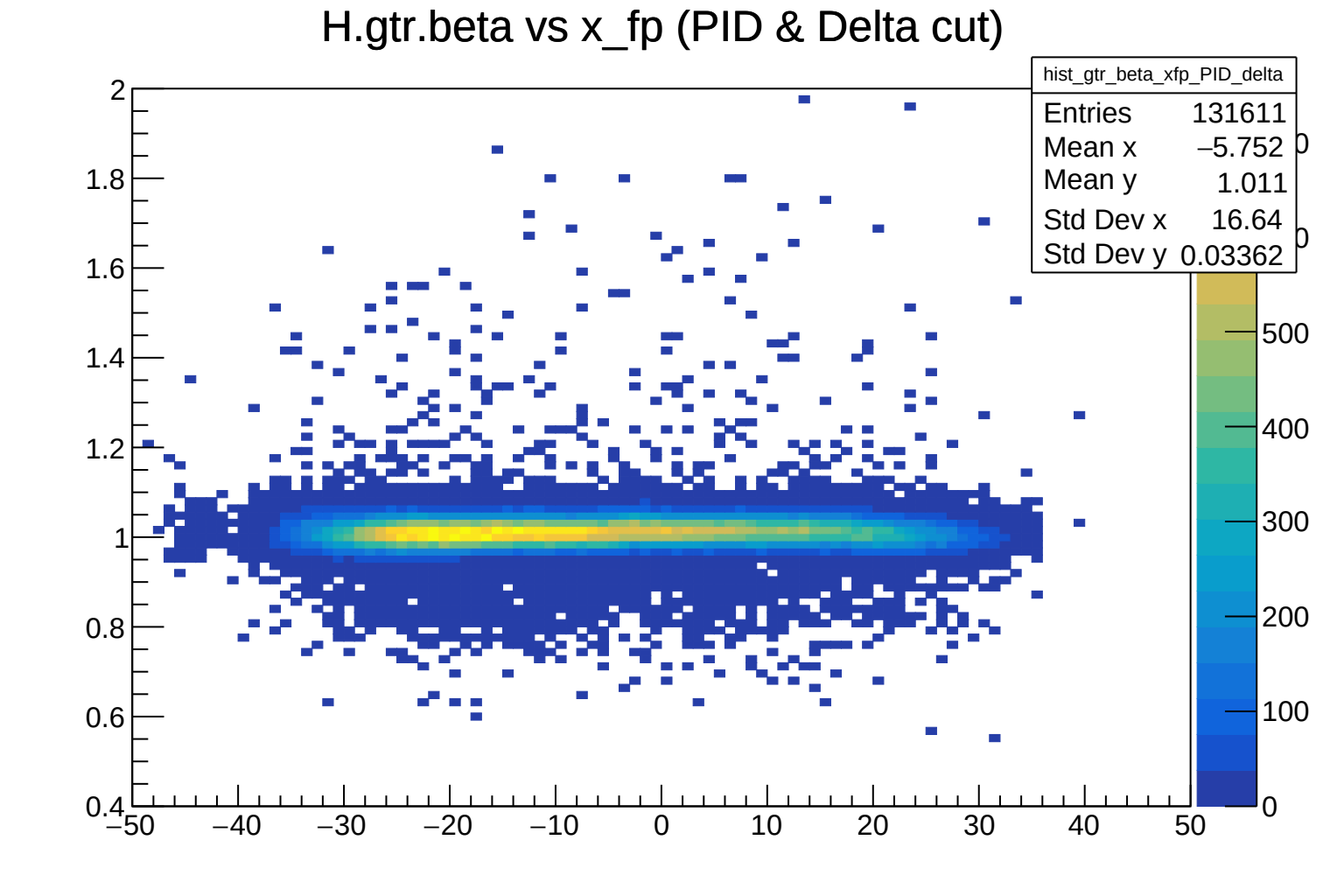

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 190305
Mean x −10.14
Mean y −0.2461
Std Dev x 23.04
Std Dev y 8.087
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
400
300
200
100
0

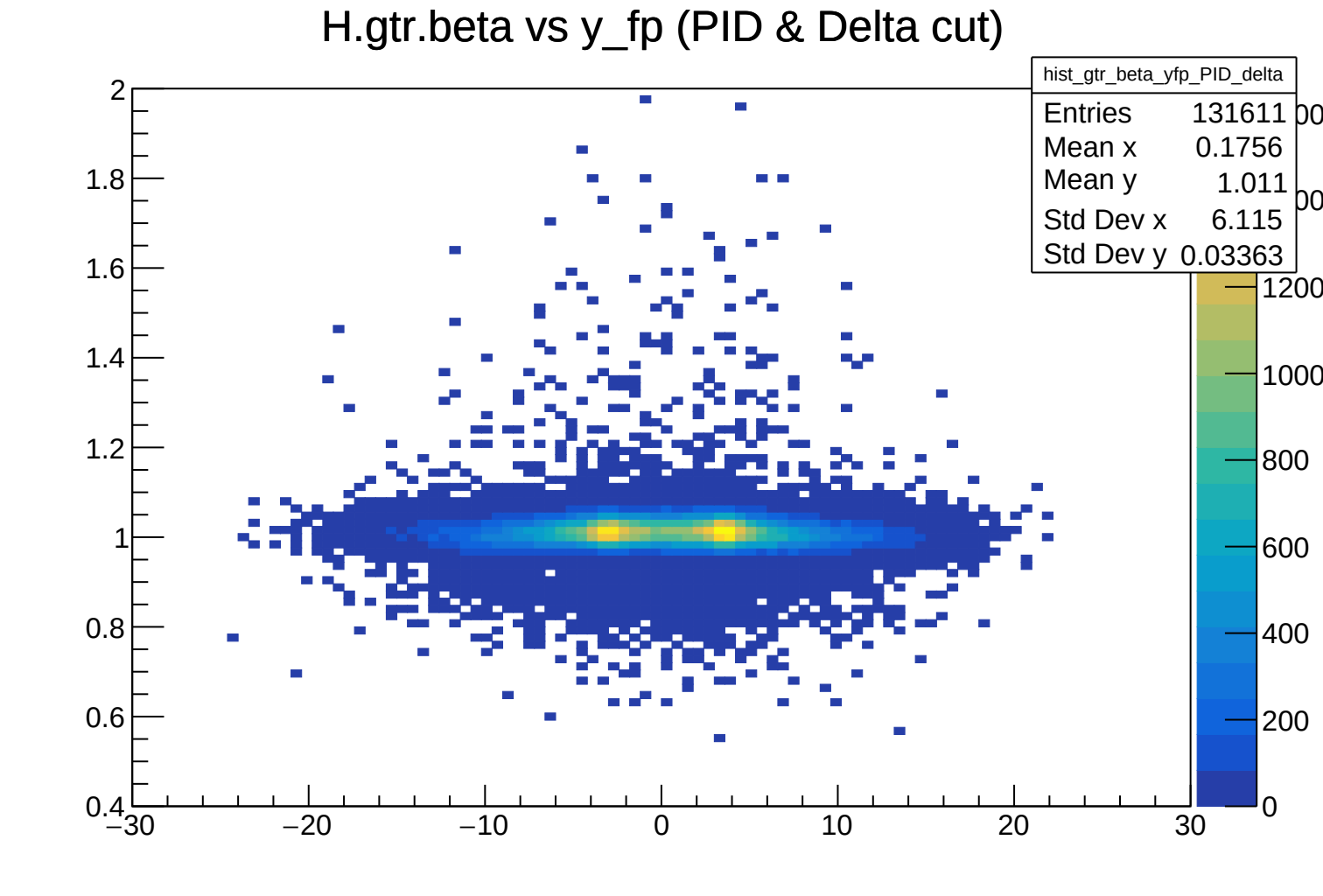

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 190305
Mean x −10.11
Mean y 1.011
Std Dev x 23.02
Std Dev y 0.03526
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
500
400
300
200
100
0

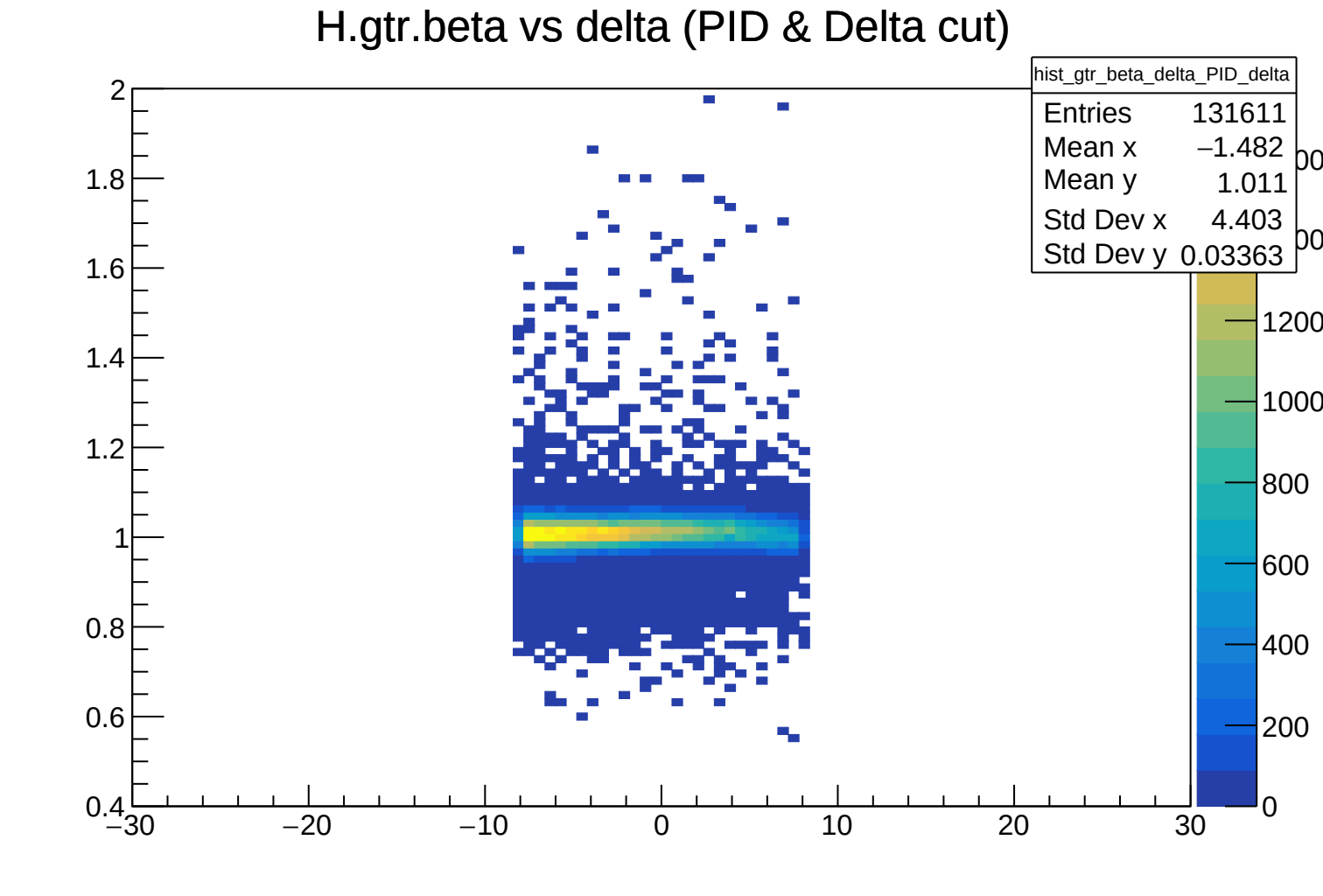

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 190305
Mean x −0.2443
Mean y 1.011
Std Dev x 8.086
Std Dev y 0.03527
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1200
1000
800
600
400
200
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 190305
Mean x −2.495
Mean y 1.011
Std Dev x 6.241
Std Dev y 0.03518
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
800
600
400
200
0


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 131611
Mean x –5.753
Mean y 0.1754
Std Dev x 16.65
Std Dev y 6.116
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
400
300
200
100
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 131611
Mean x –5.752
Mean y 1.011
Std Dev x 16.64
Std Dev y 0.03362
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
500
400
300
200
100
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 131611
Mean x 0.1756
Mean y 1.011
Std Dev x 6.115
Std Dev y 0.03363
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
800
600
400
200
0


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 131611
Mean x −1.482
Mean y 1.011
Std Dev x 4.403
Std Dev y 0.03363
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
800
600
400
200
0