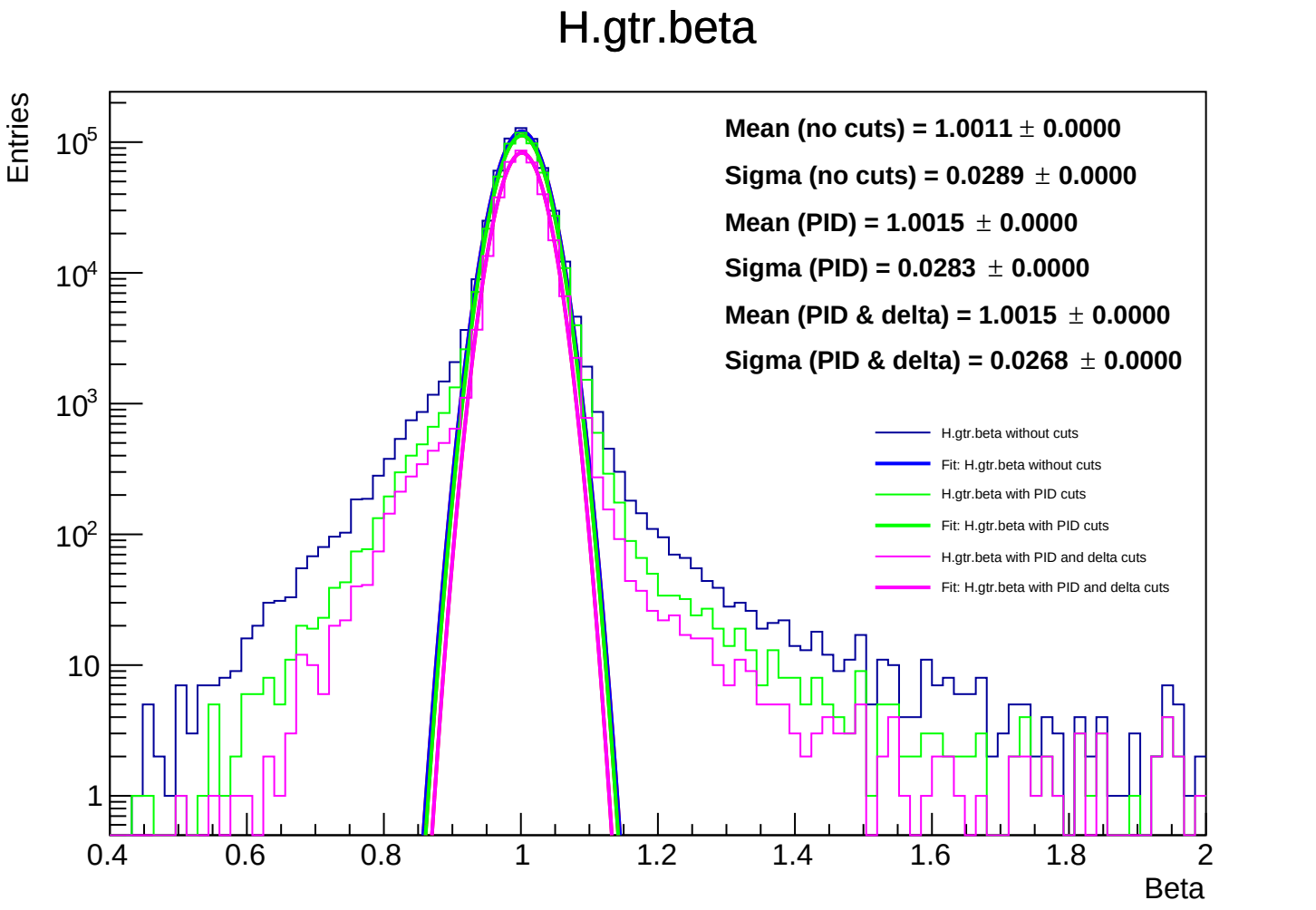
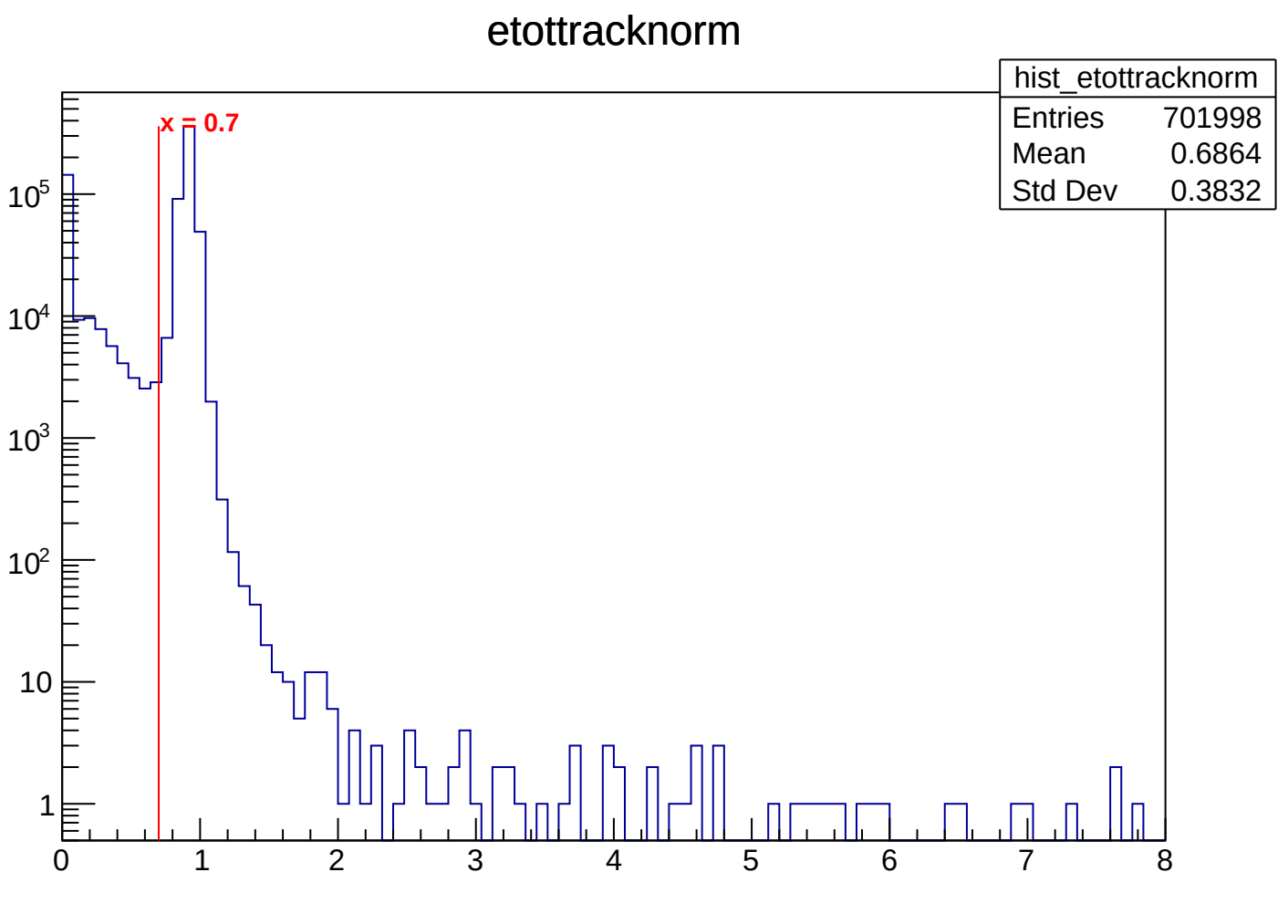
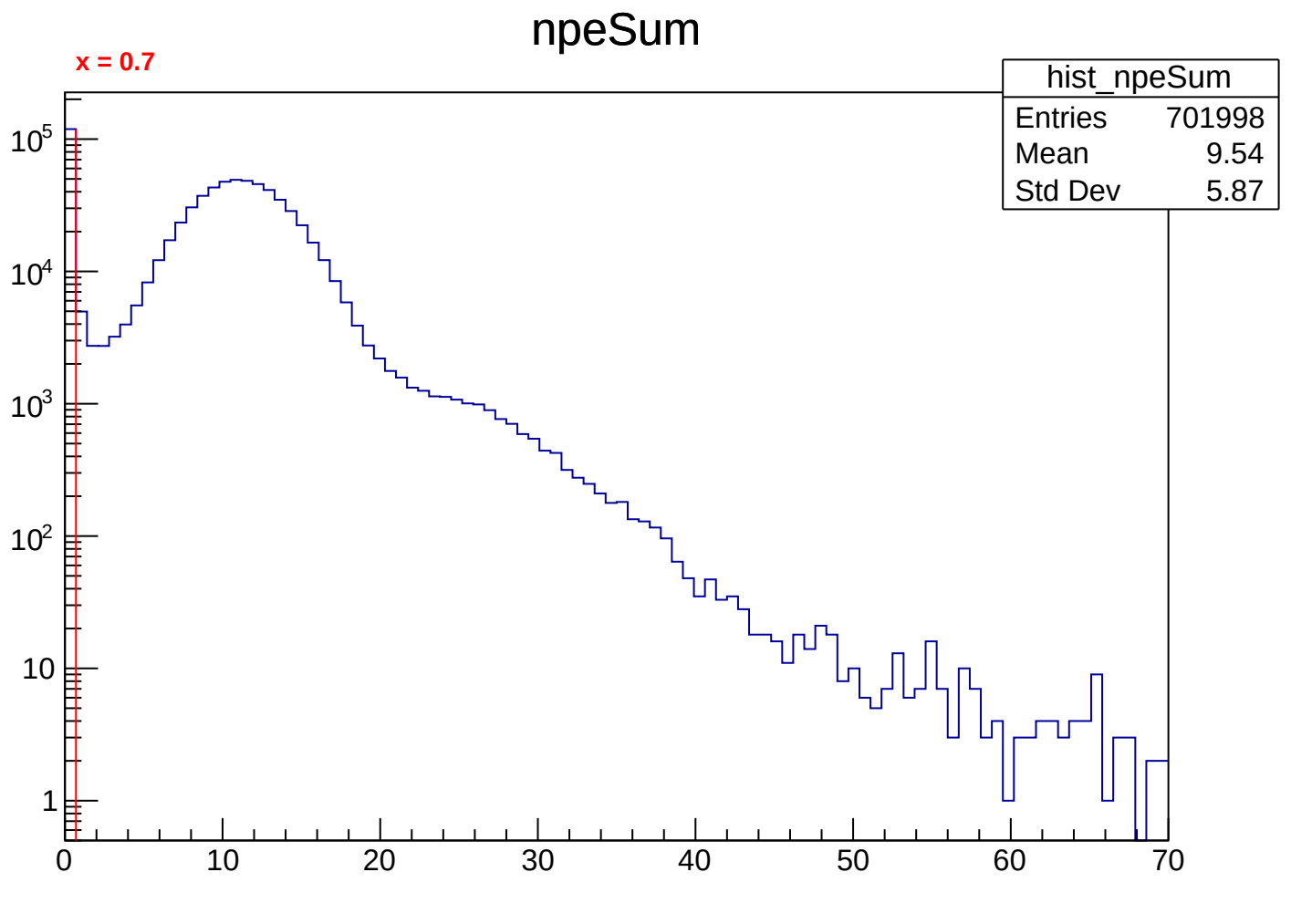
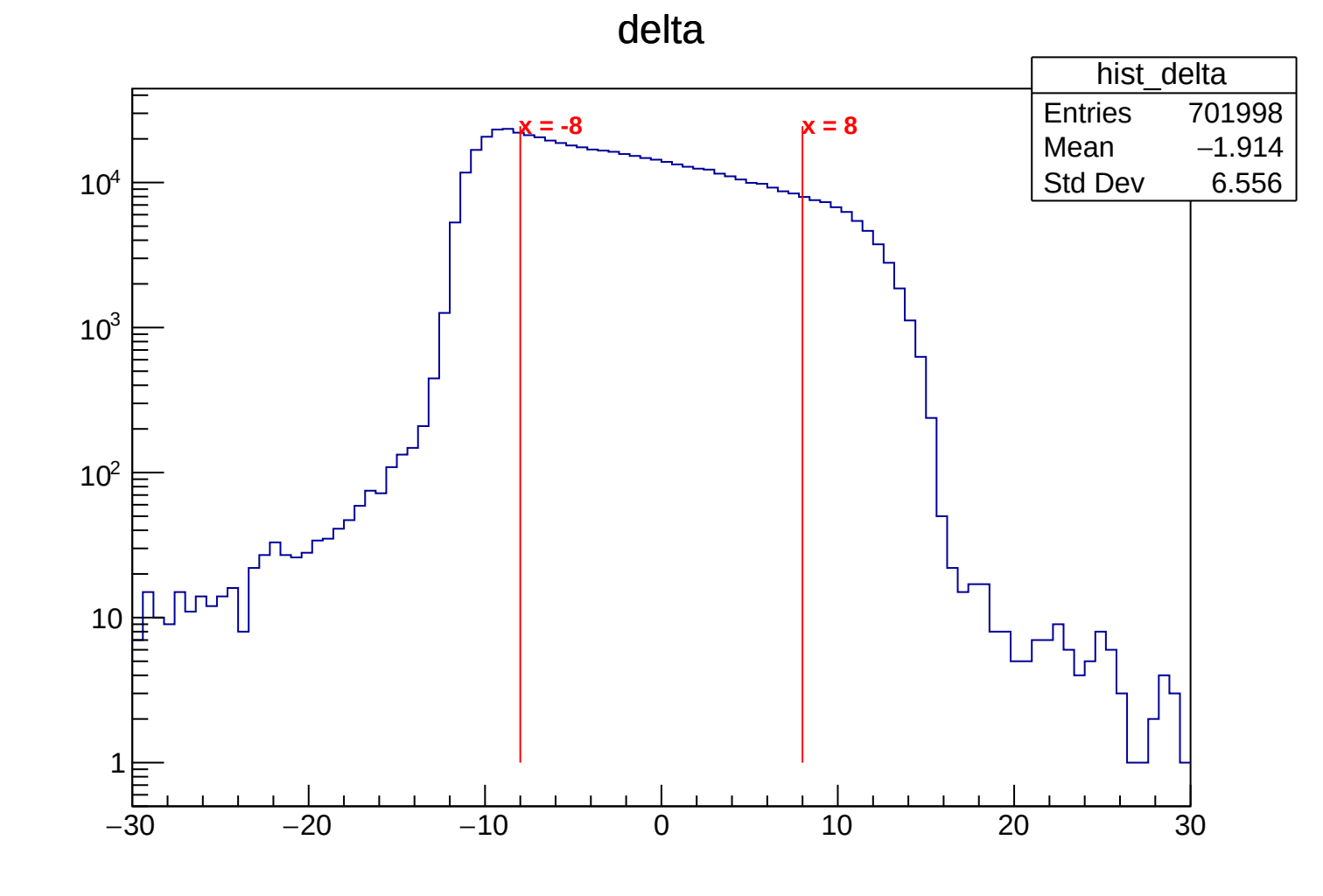
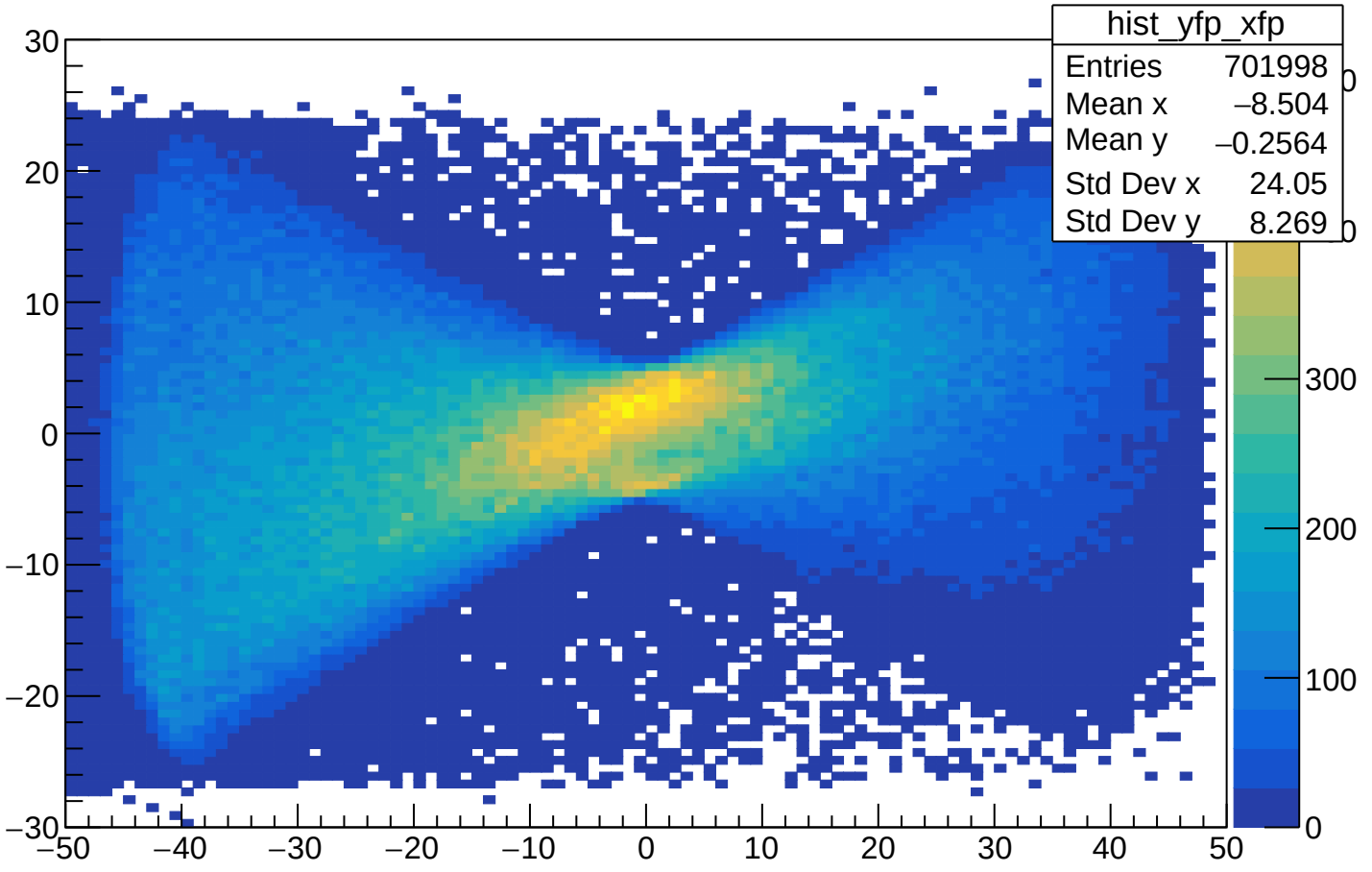
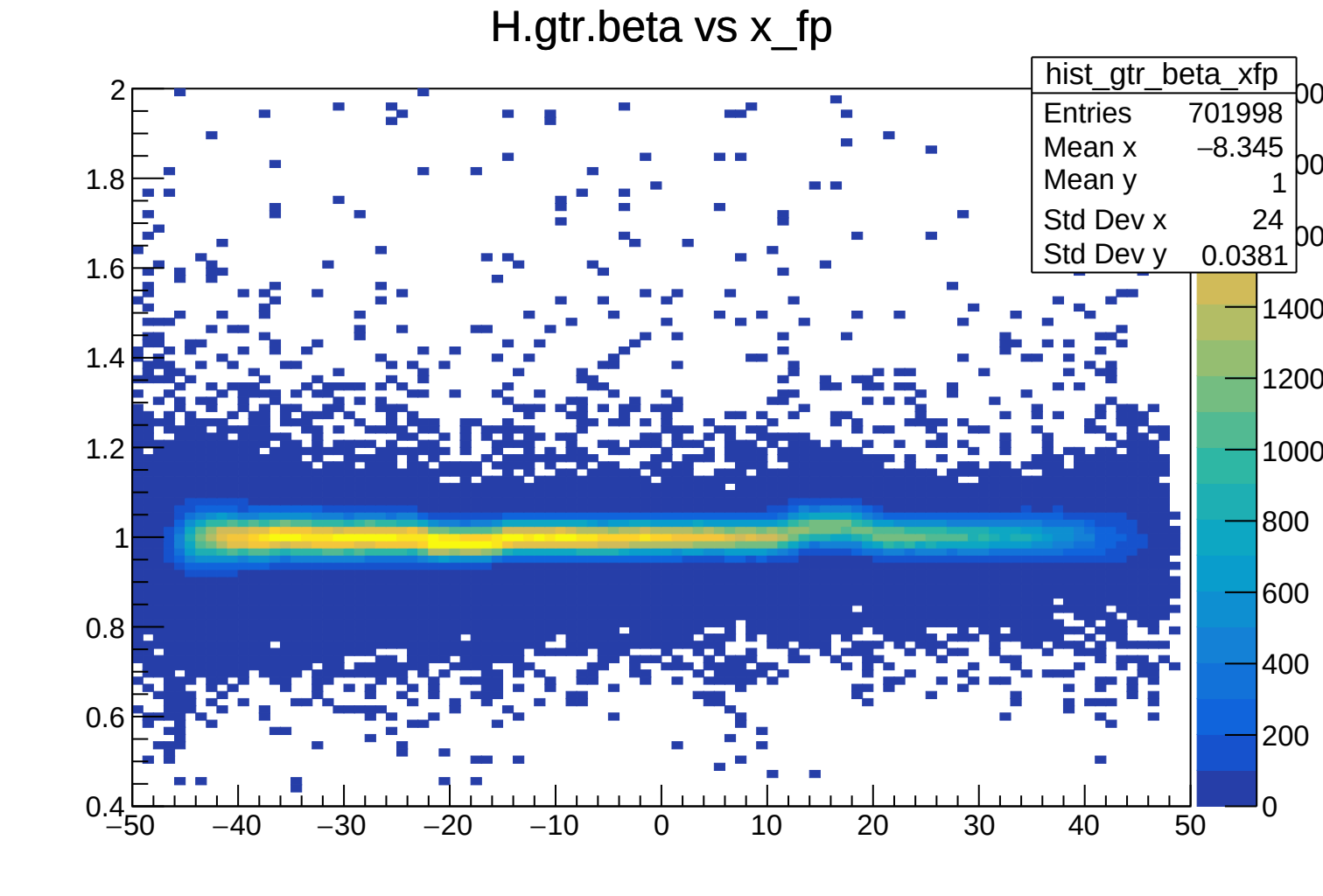

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0011 ± 0.0000
Sigma (no cuts) = 0.0289 ± 0.0000
Mean (PID) = 1.0015 ± 0.0000
Sigma (PID) = 0.0283 ± 0.0000
Mean (PID & delta) = 1.0015 ± 0.0000
Sigma (PID & delta) = 0.0268 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

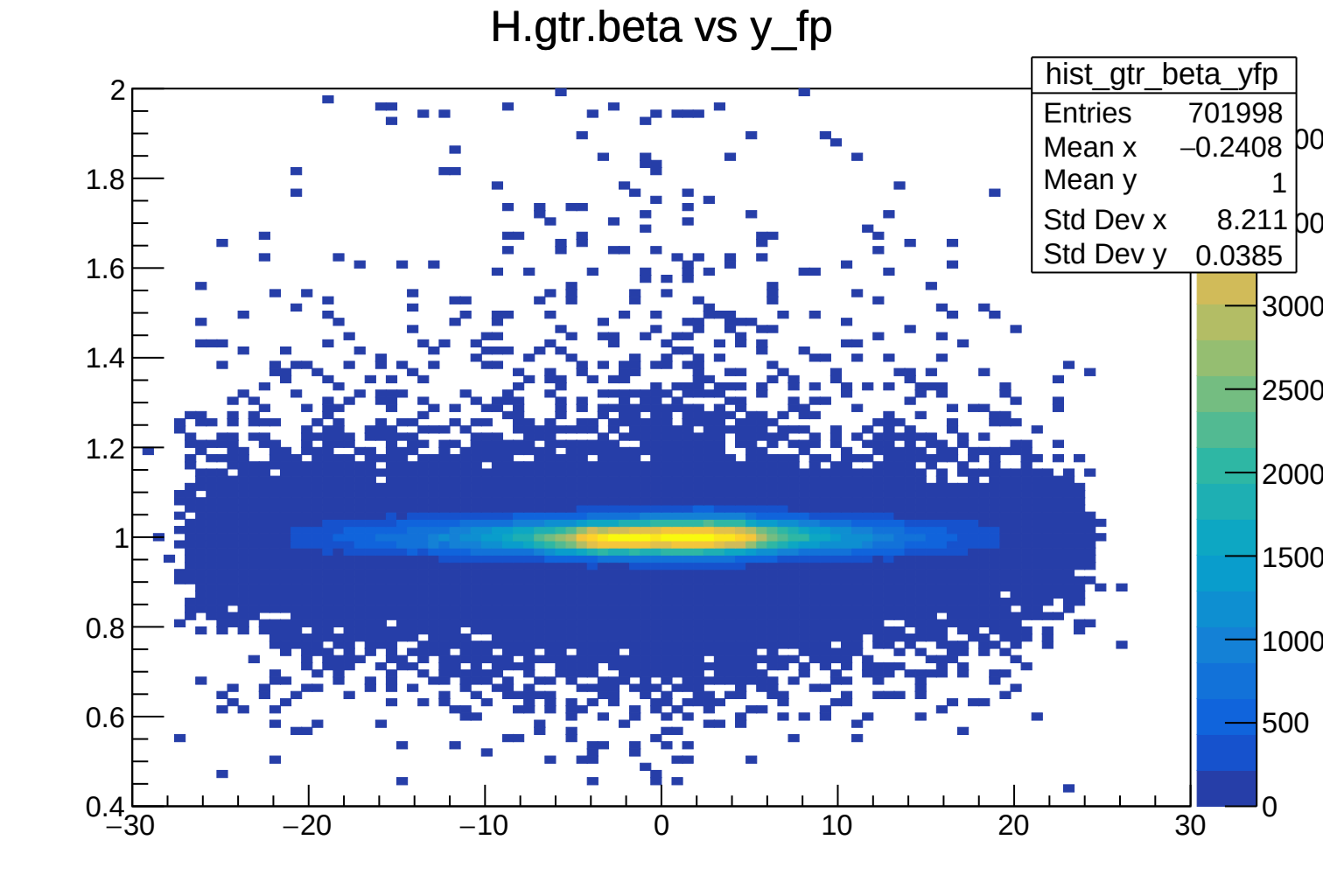

etottracknorm
hist_etottracknorm
Entries 701998
Mean 0.6864
Std Dev 0.3832
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

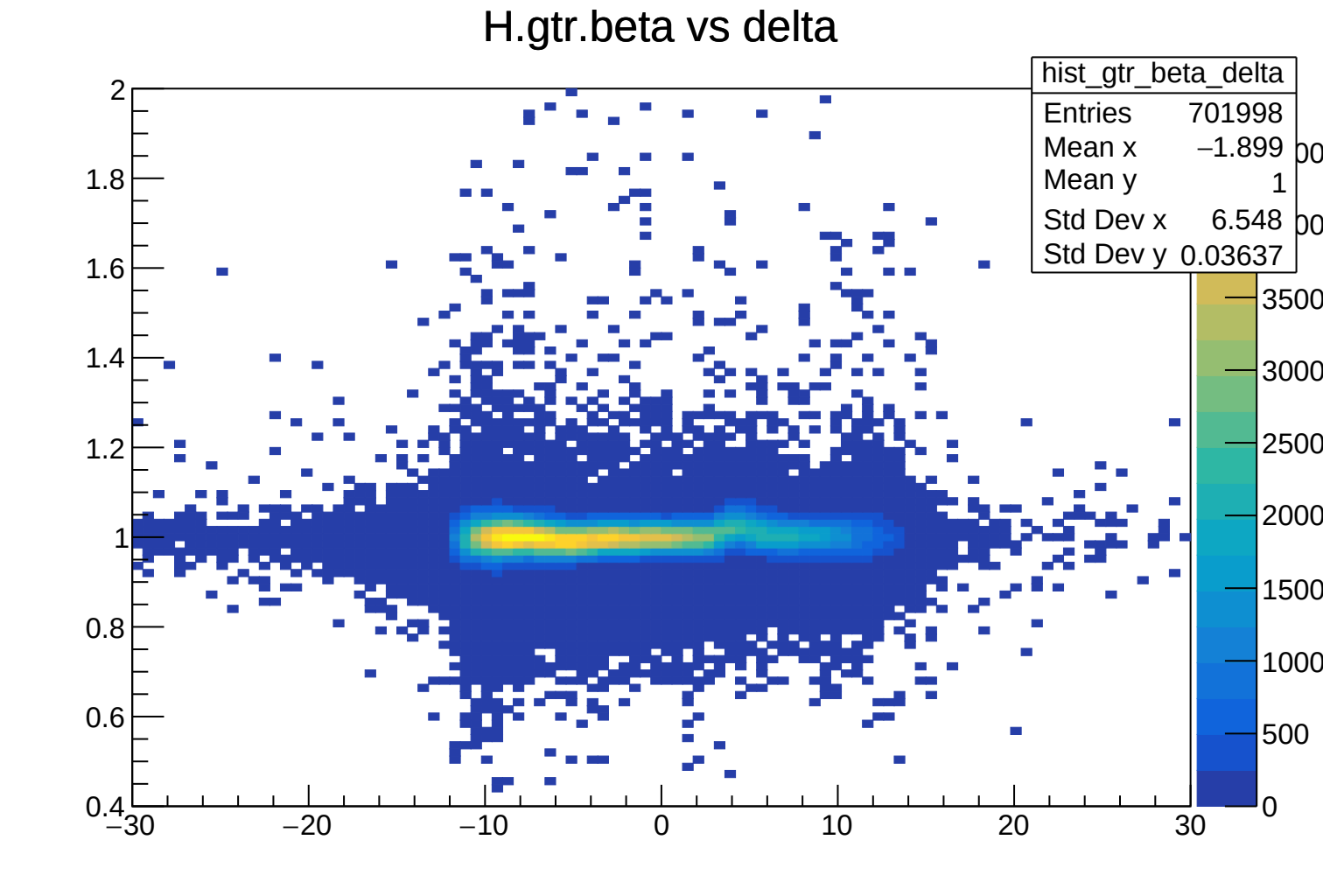

npeSum
x = 0.7
hist_npeSum
Entries 701998
Mean 9.54
Std Dev 5.87
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

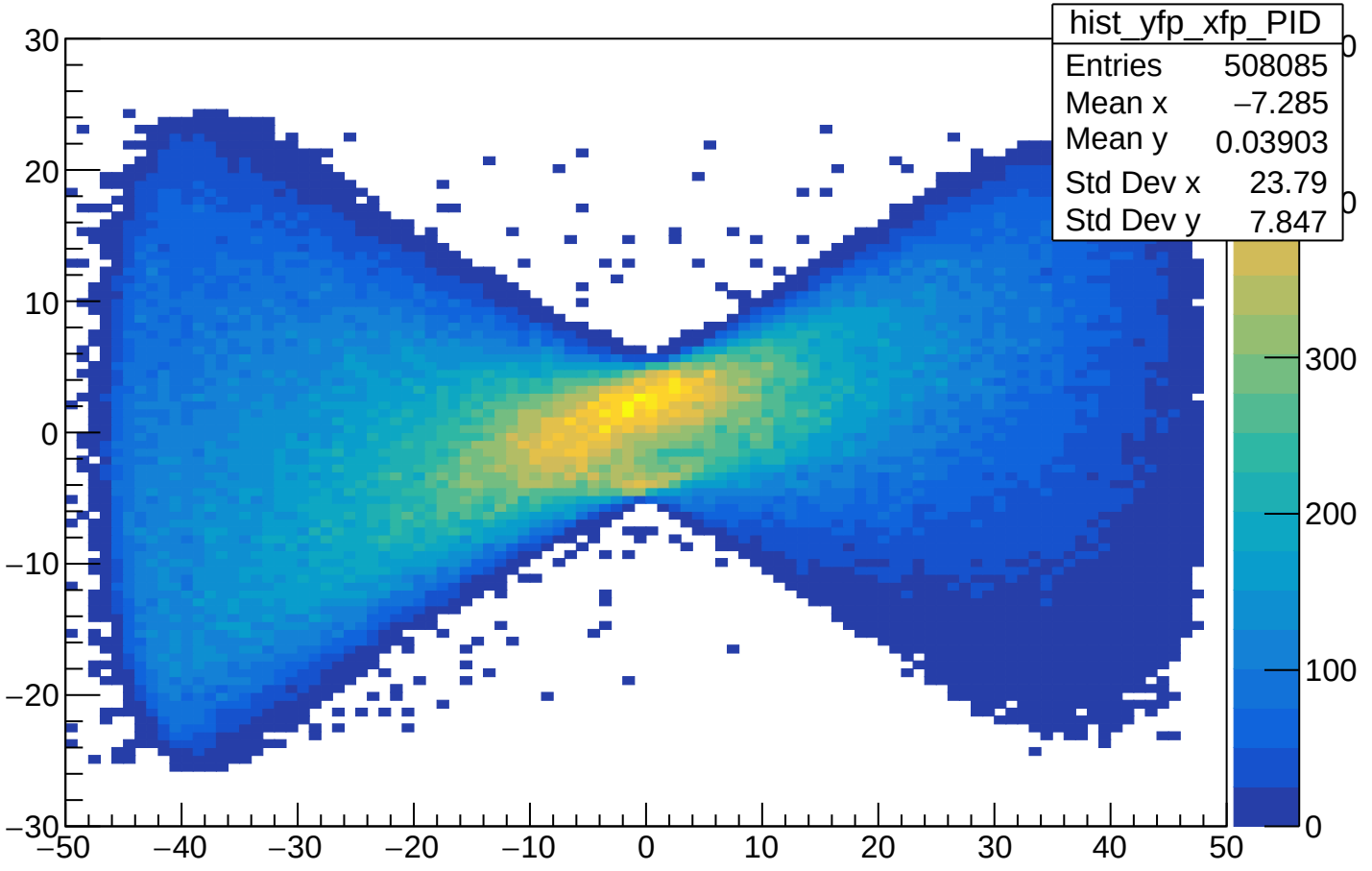

delta
hist_delta
Entries 701998
Mean −1.914
Std Dev 6.556
x = -8
x = 8
10^4
10^3
10^2
10
1
−30
−20
−10
0
10
20
30

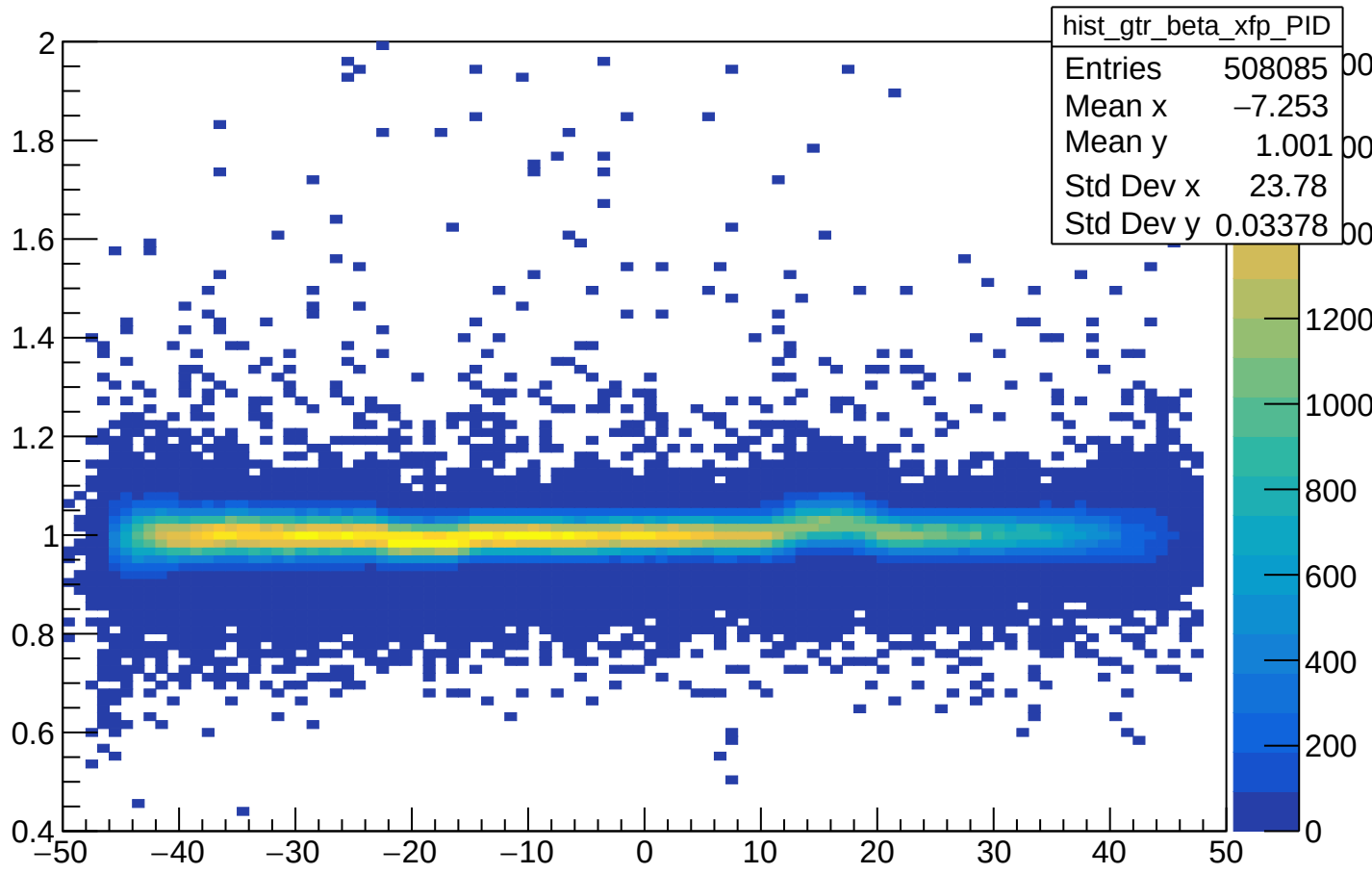

focal plane
hist_yfp_xfp
Entries 701998
Mean x −8.504
Mean y −0.2564
Std Dev x 24.05
Std Dev y 8.269
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
300
200
100
0

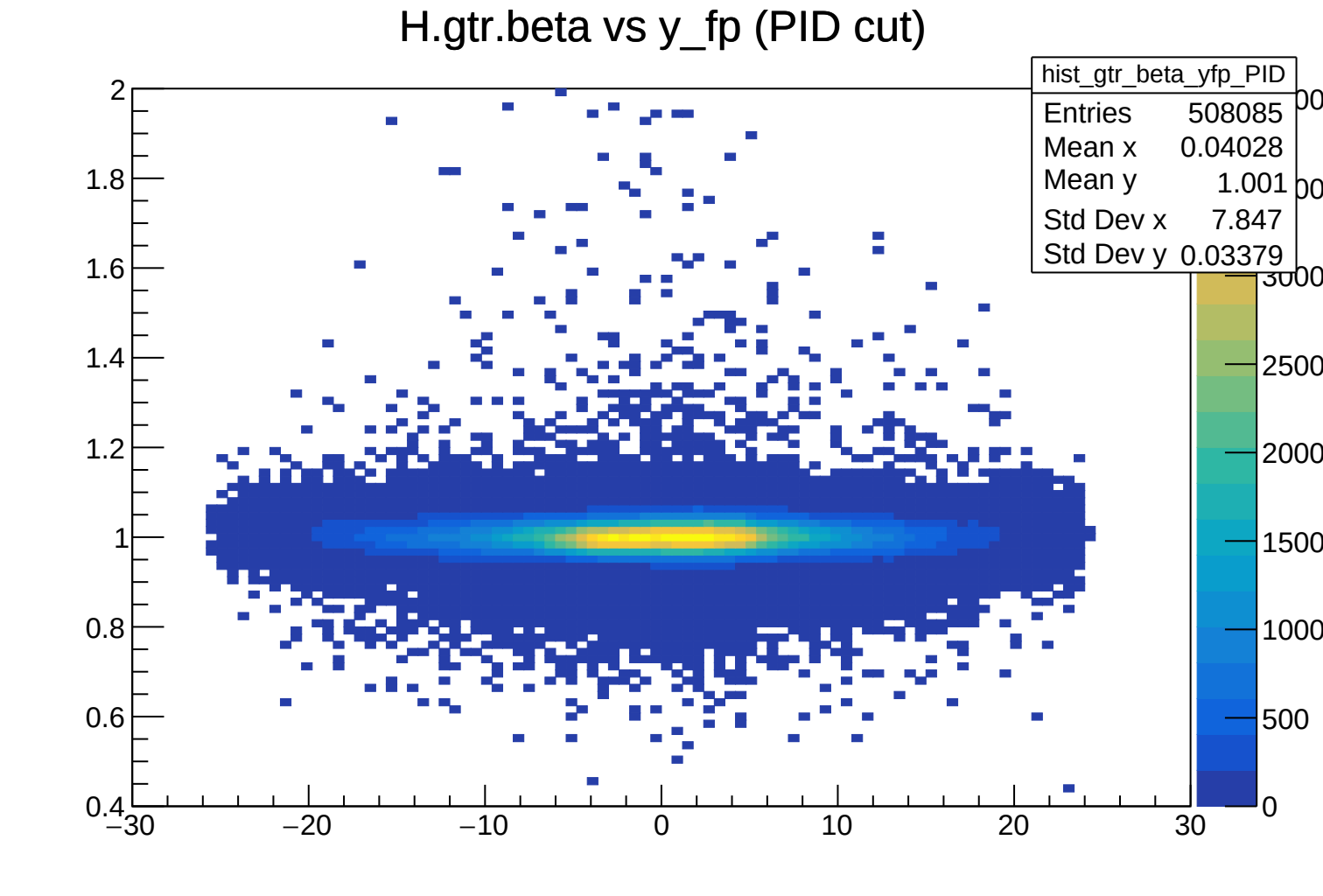

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 701998
Mean x −8.345
Mean y 1
Std Dev x 24
Std Dev y 0.0381
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
1400
1200
1000
800
600
400
200
0

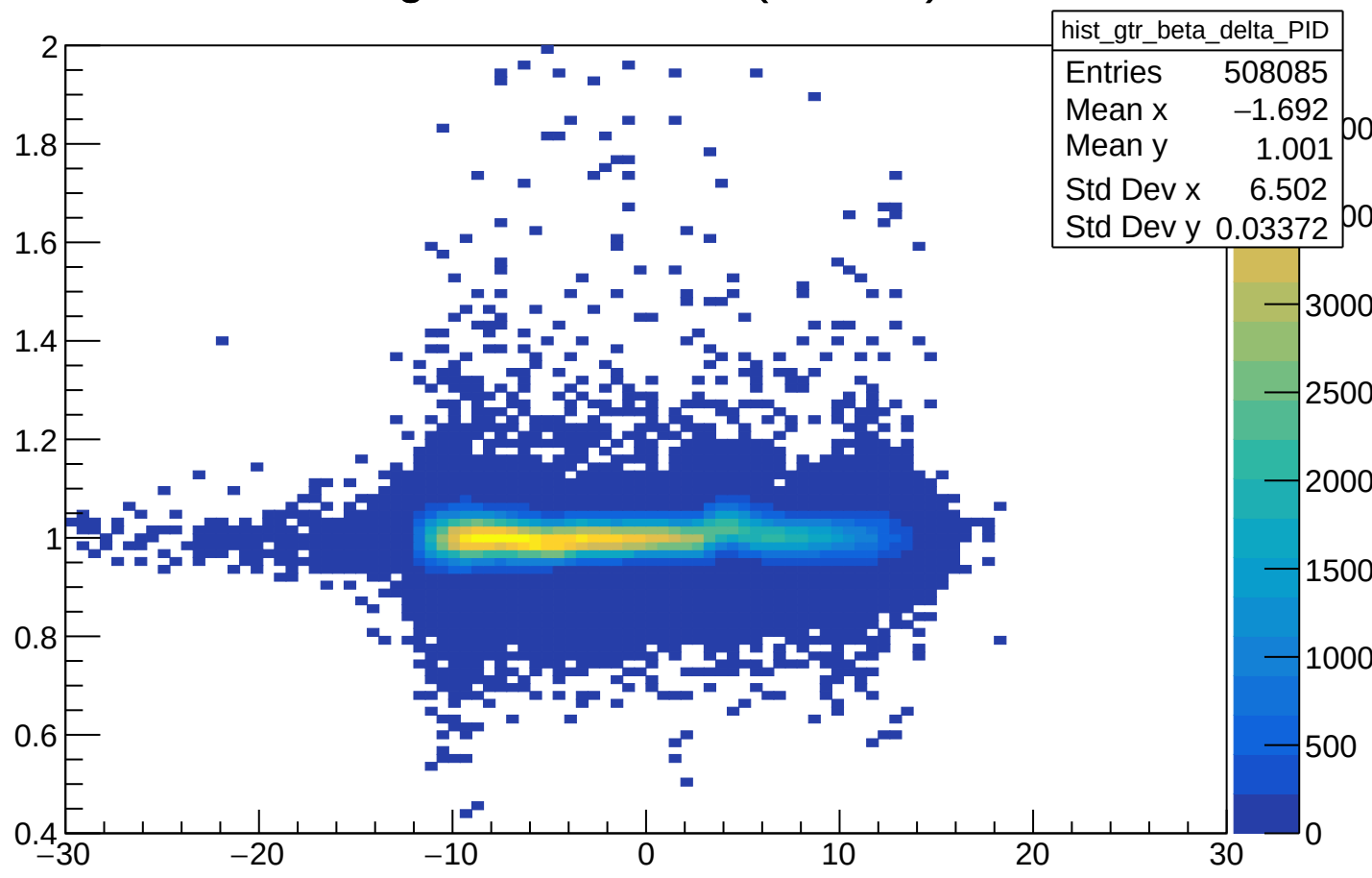

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 701998
Mean x −0.2408
Mean y 1
Std Dev x 8.211
Std Dev y 0.0385
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
3000
2500
2000
1500
1000
500
0

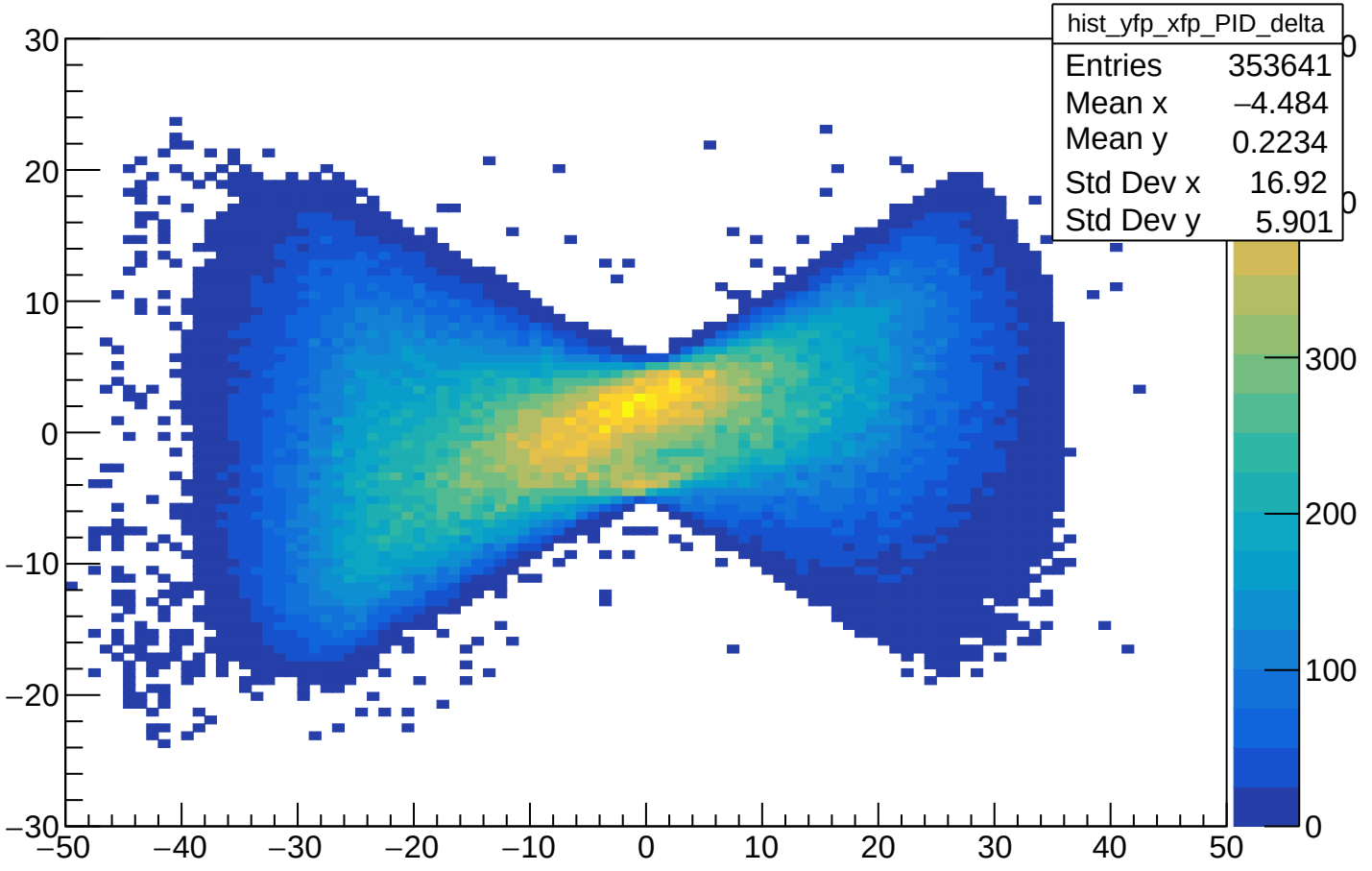

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 701998
Mean x −1.899
Mean y 1
Std Dev x 6.548
Std Dev y 0.03637
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
3500
3000
2500
2000
1500
1000
500
0

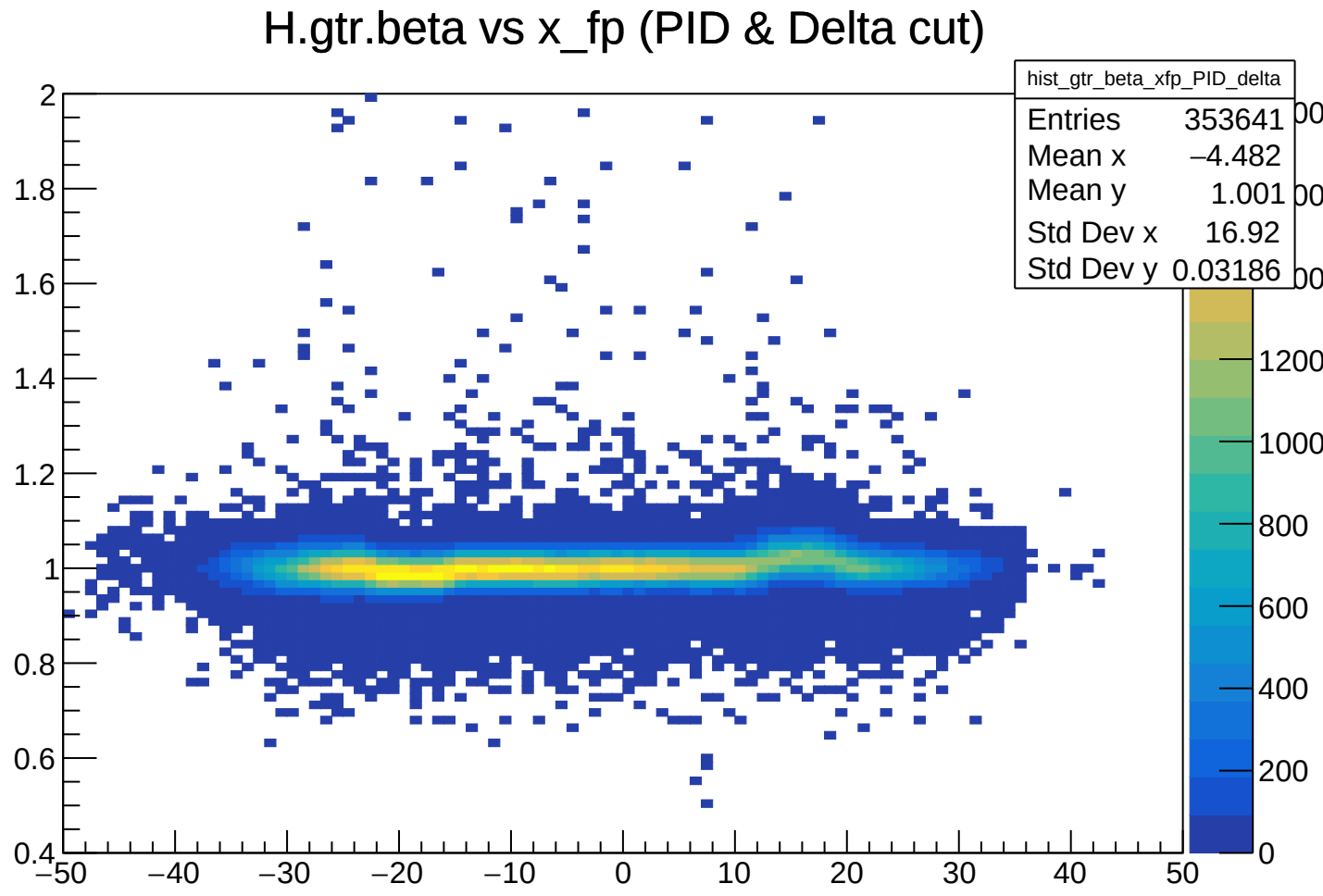

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 508085
Mean x −7.285
Mean y 0.03903
Std Dev x 23.79
Std Dev y 7.847
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
300
200
100
0

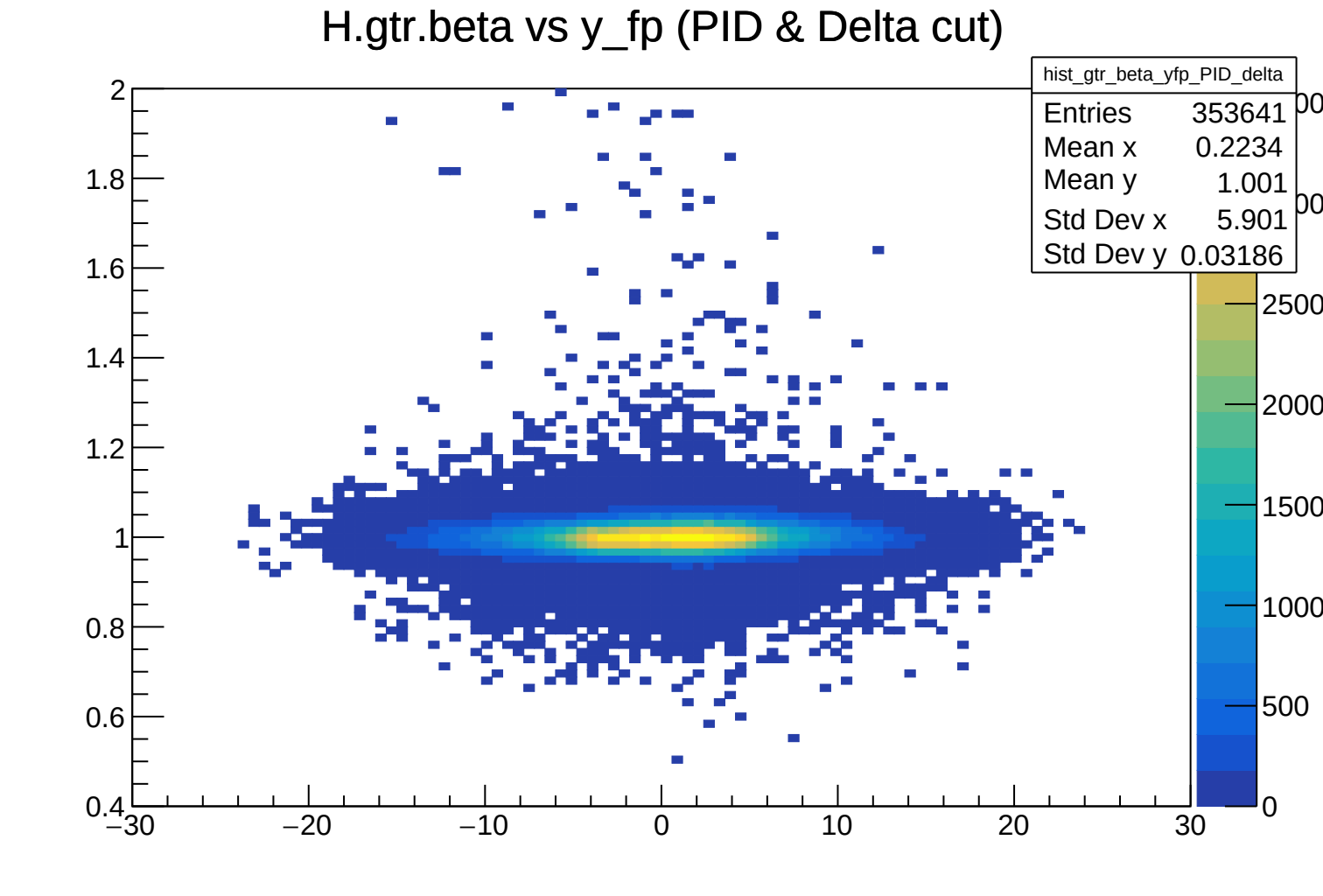

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 508085
Mean x −7.253
Mean y 1.001
Std Dev x 23.78
Std Dev y 0.03378
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
1200
1000
800
600
400
200
0

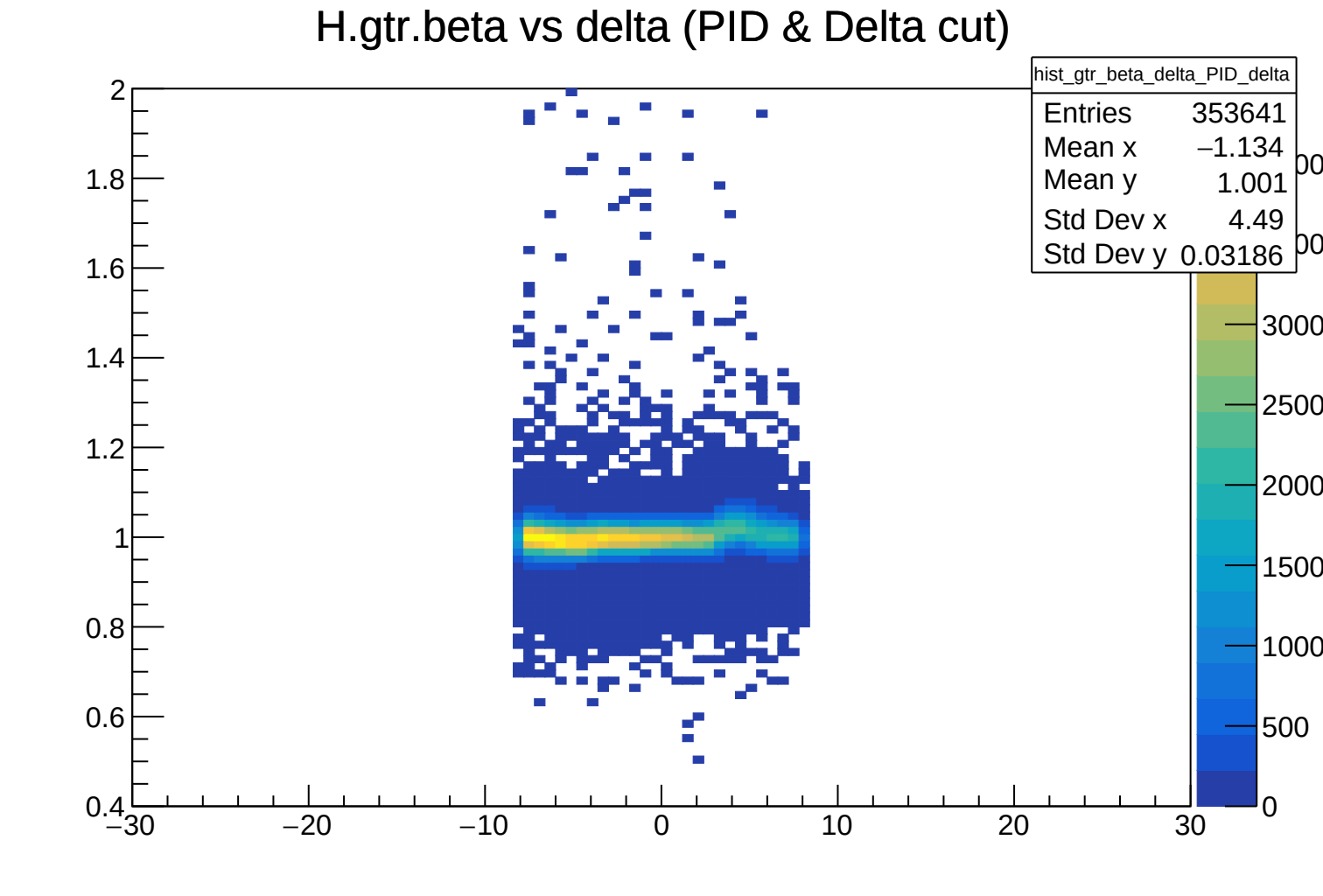

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 508085
Mean x 0.04028
Mean y 1.001
Std Dev x 7.847
Std Dev y 0.03379
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
3000
2500
2000
1500
1000
500
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 508085
Mean x −1.692
Mean y 1.001
Std Dev x 6.502
Std Dev y 0.03372
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


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 353641
Mean x –4.484
Mean y 0.2234
Std Dev x 16.92
Std Dev y 5.901
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
300
200
100
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 353641
Mean x –4.482
Mean y 1.001
Std Dev x 16.92
Std Dev y 0.03186
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 353641
Mean x 0.2234
Mean y 1.001
Std Dev x 5.901
Std Dev y 0.03186
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


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 353641
Mean x −1.134
Mean y 1.001
Std Dev x 4.49
Std Dev y 0.03186
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