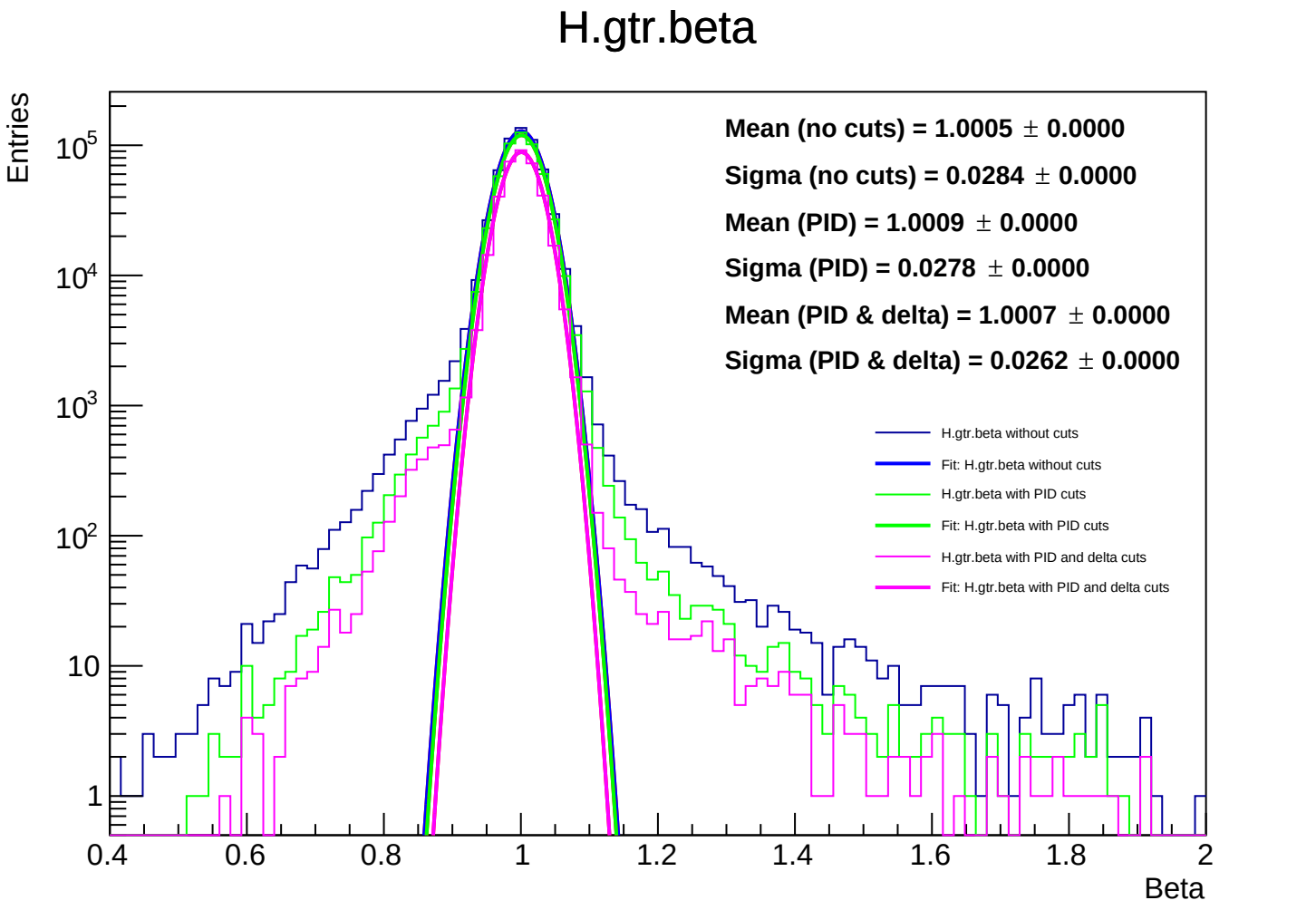
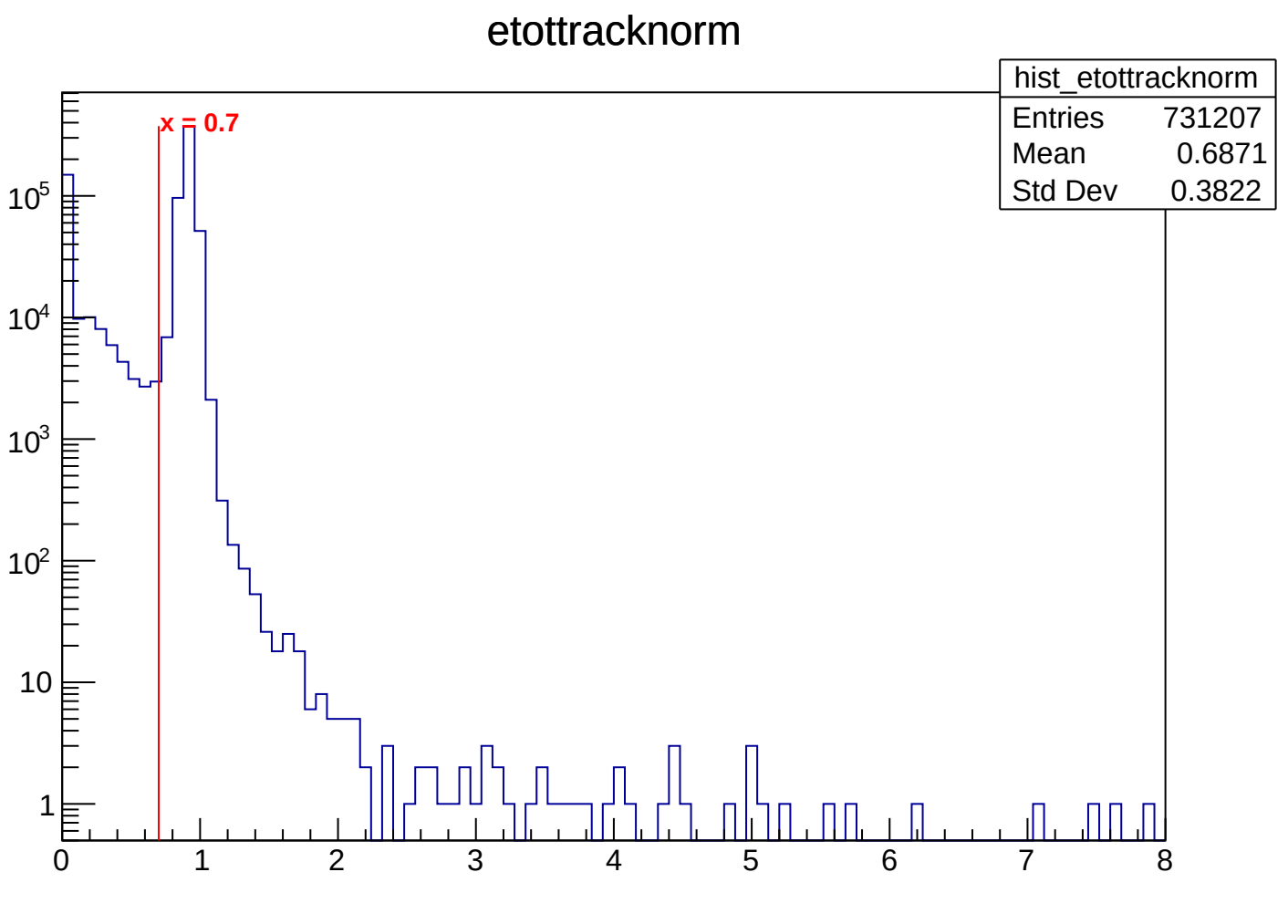
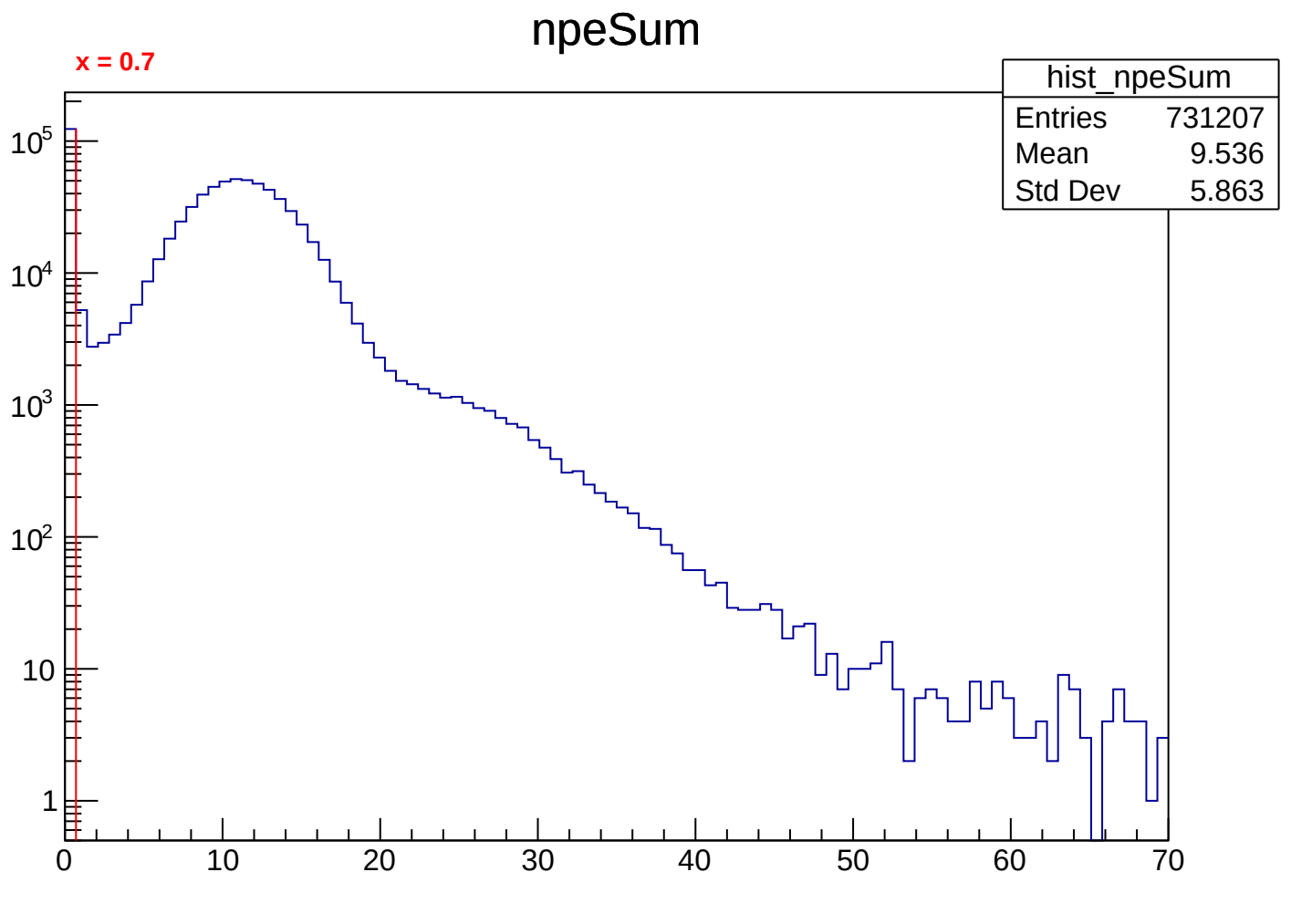
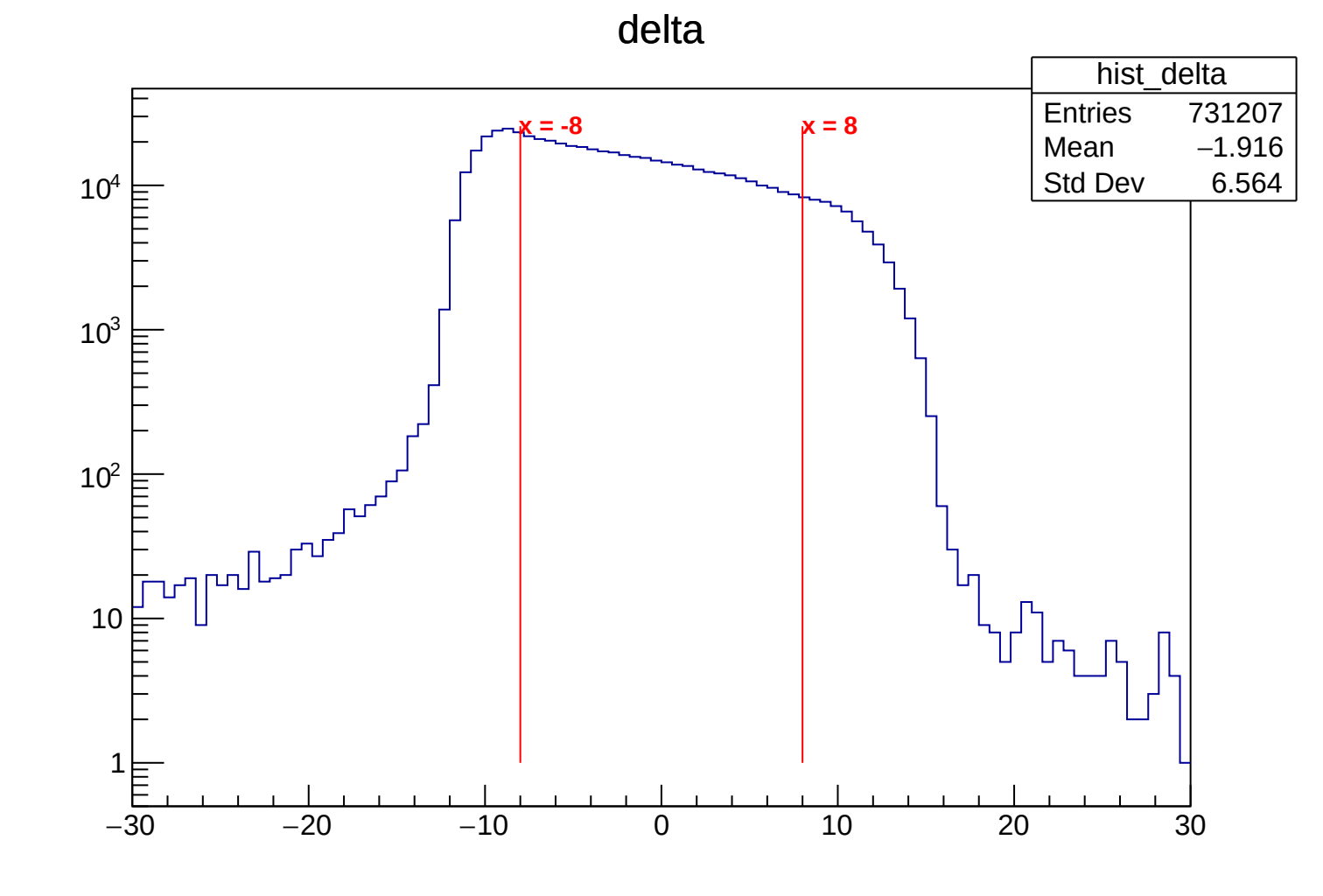
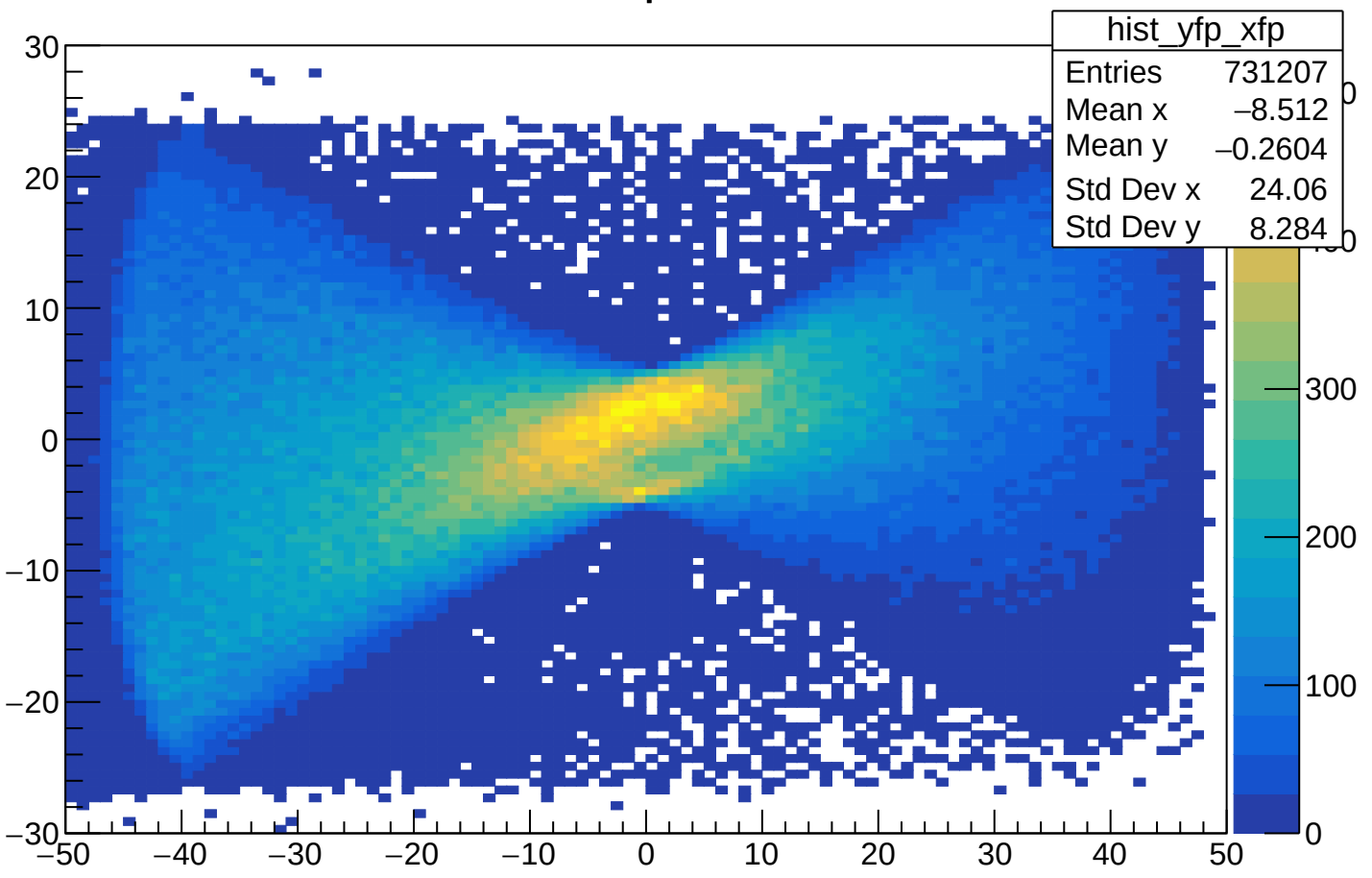
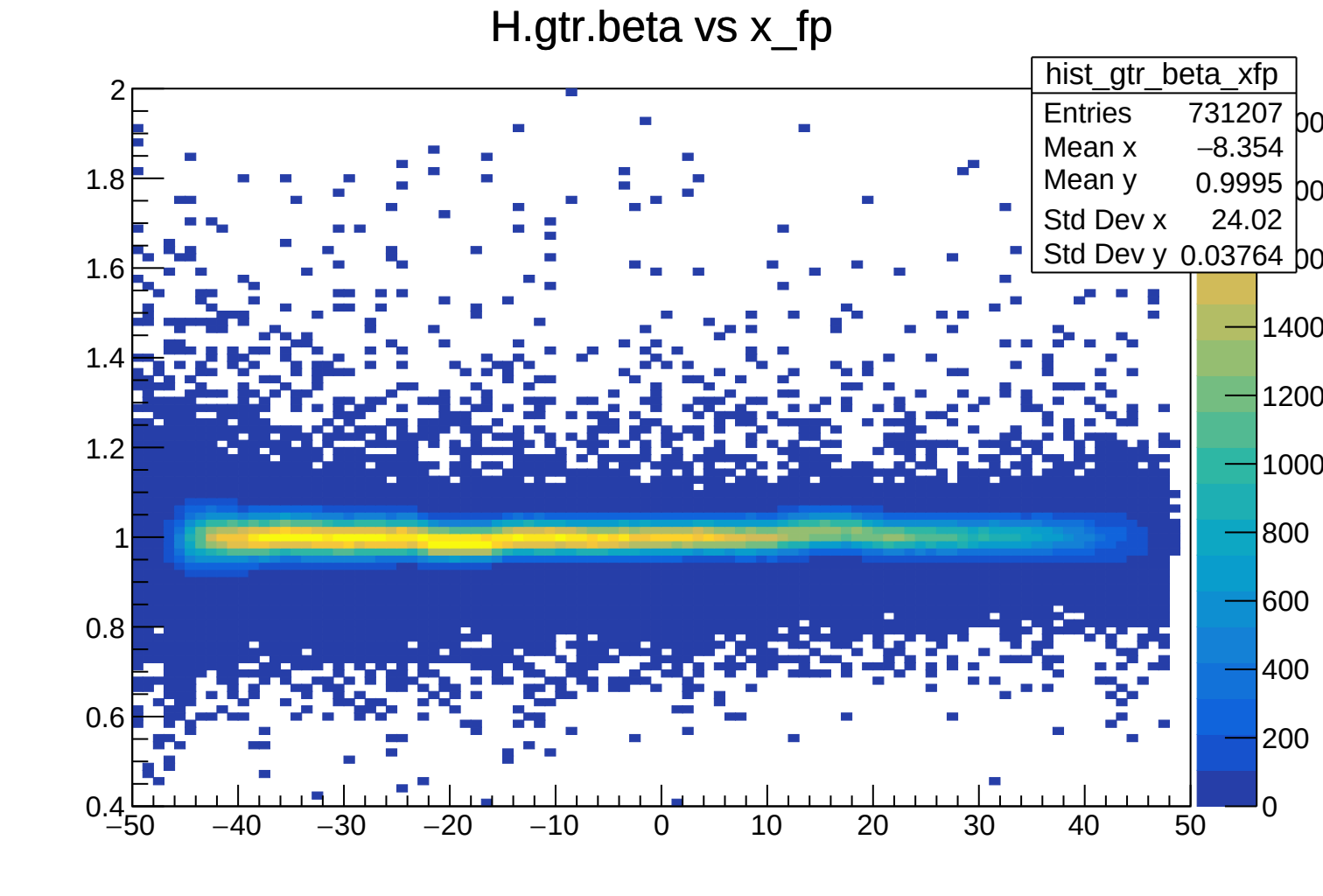

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0005 ± 0.0000
Sigma (no cuts) = 0.0284 ± 0.0000
Mean (PID) = 1.0009 ± 0.0000
Sigma (PID) = 0.0278 ± 0.0000
Mean (PID & delta) = 1.0007 ± 0.0000
Sigma (PID & delta) = 0.0262 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

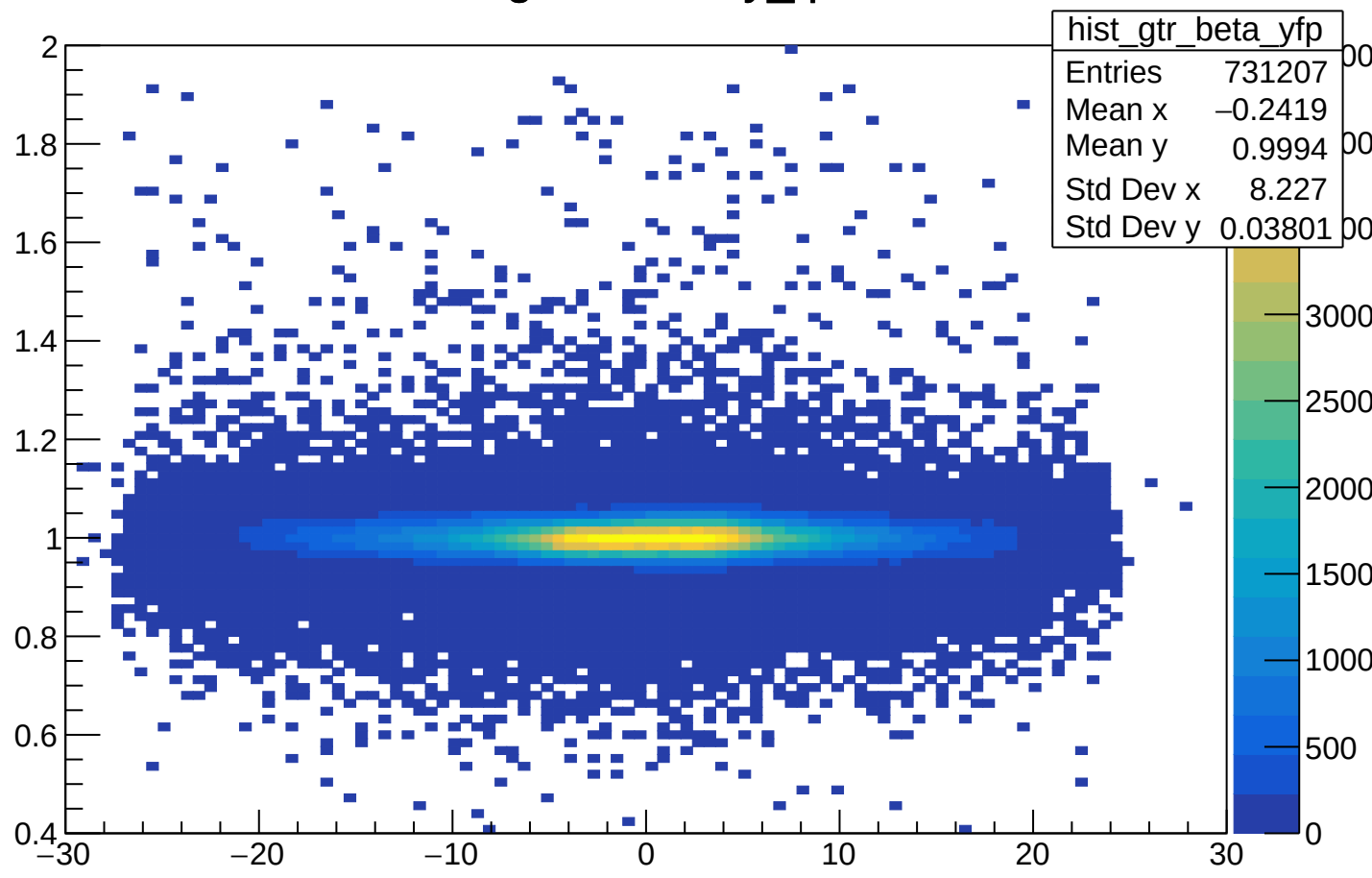

etottracknorm
hist_etottracknorm
Entries 731207
Mean 0.6871
Std Dev 0.3822
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

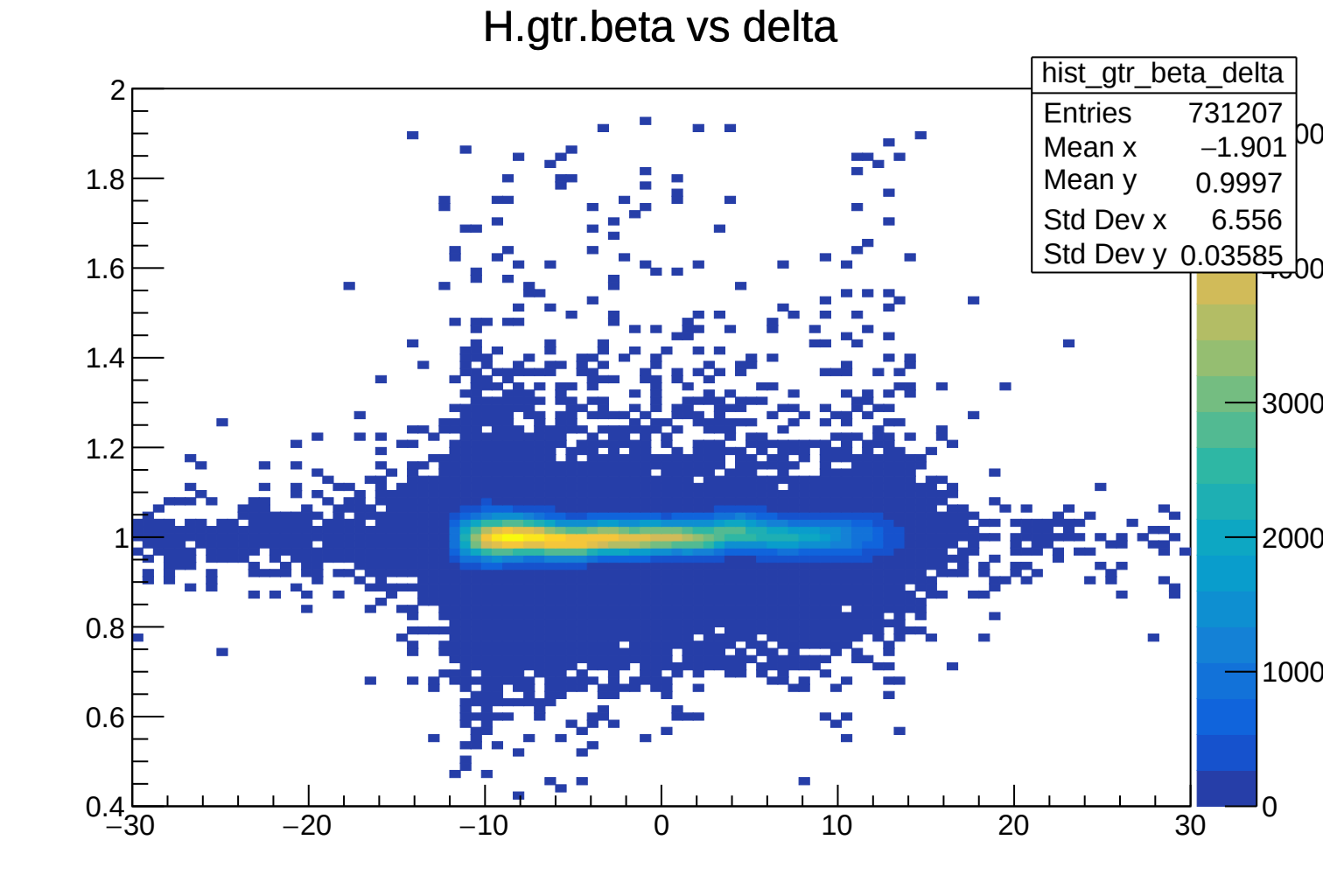

npeSum
x = 0.7
hist_npeSum
Entries 731207
Mean 9.536
Std Dev 5.863
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

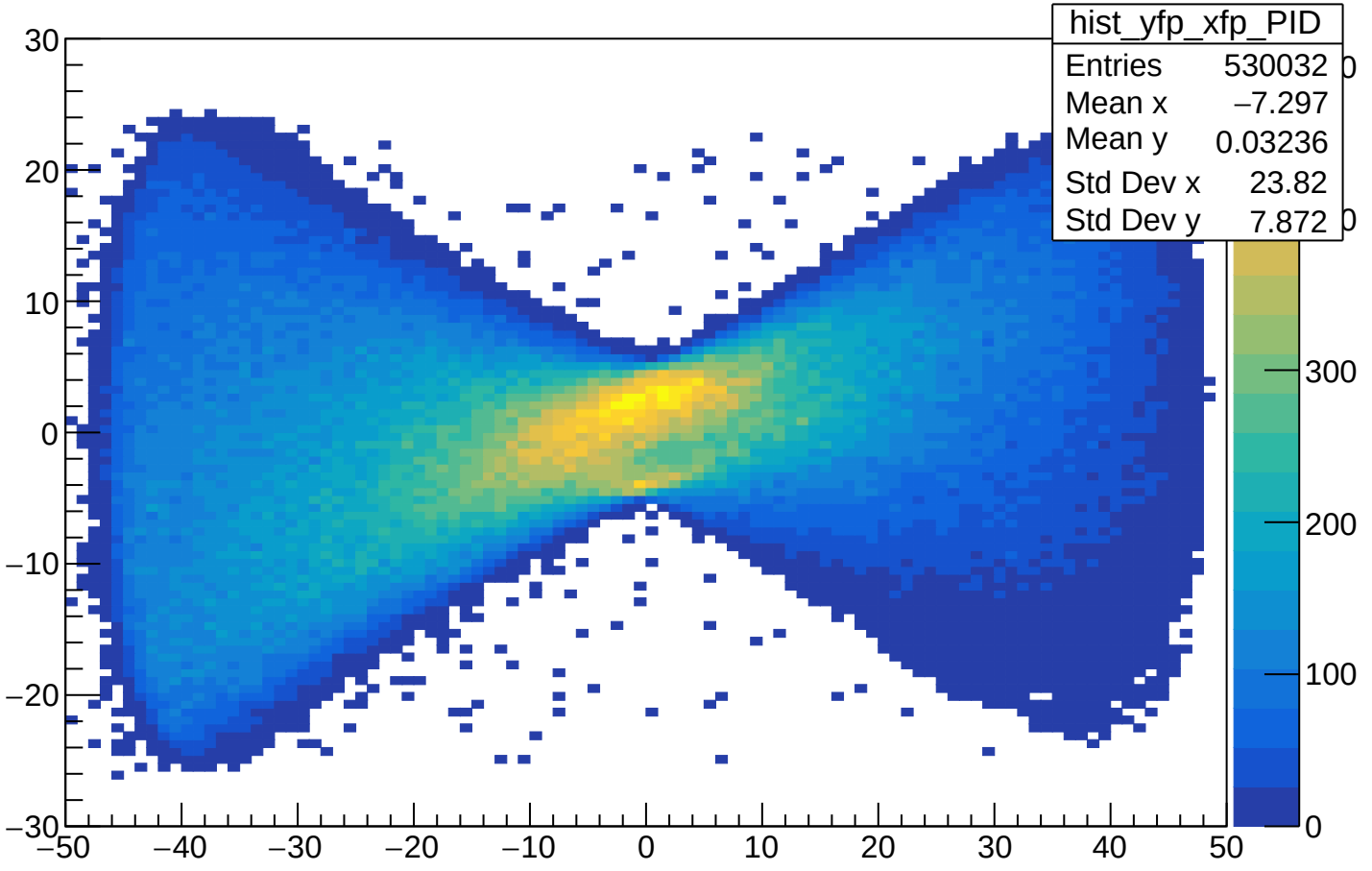

delta
hist_delta
Entries 731207
Mean −1.916
Std Dev 6.564
x = -8
x = 8
10^4
10^3
10^2
10
1
−30
−20
−10
0
10
20
30

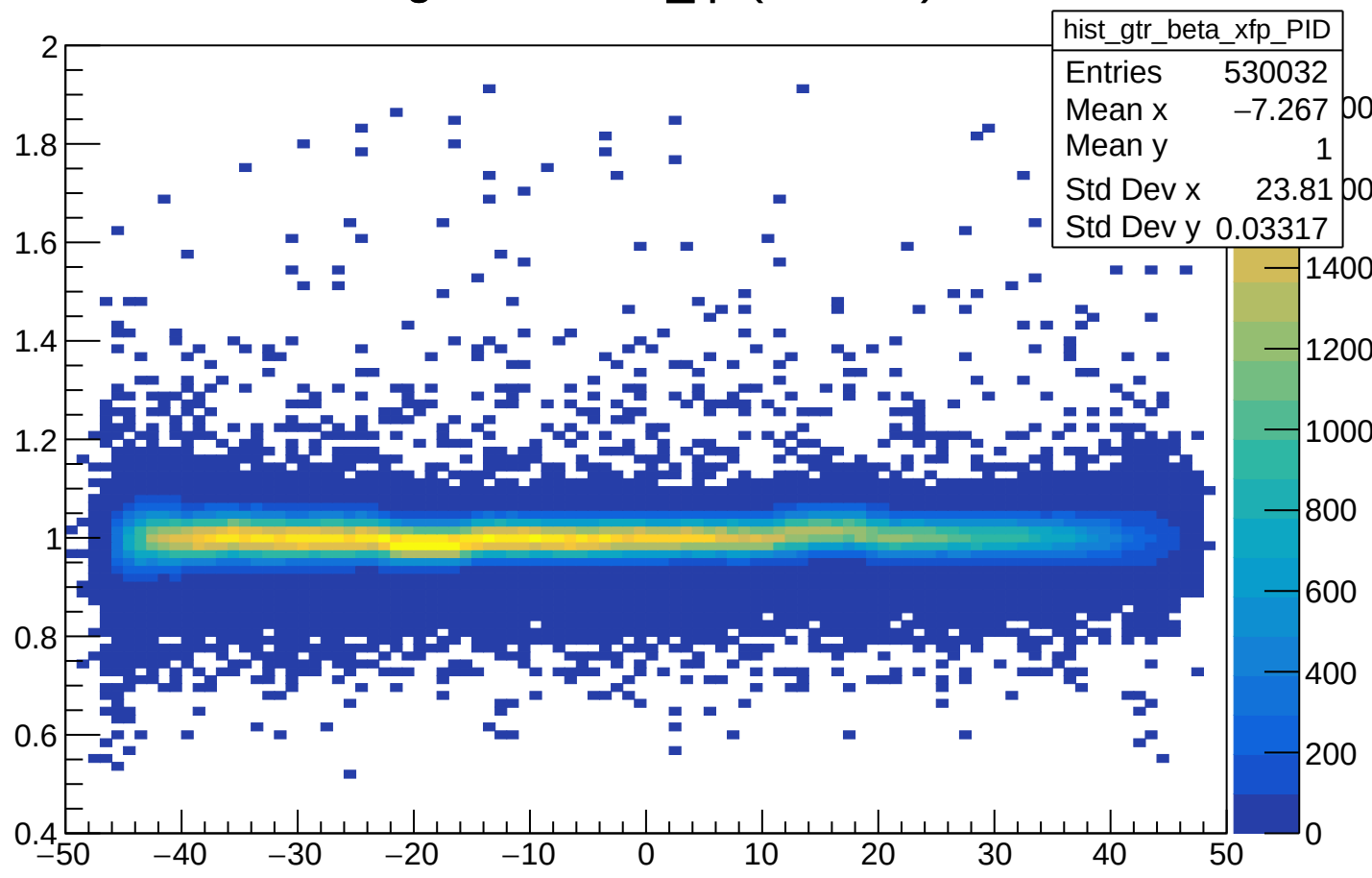

focal plane
hist_yfp_xfp
Entries 731207
Mean x −8.512
Mean y −0.2604
Std Dev x 24.06
Std Dev y 8.284
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
300
200
100
0

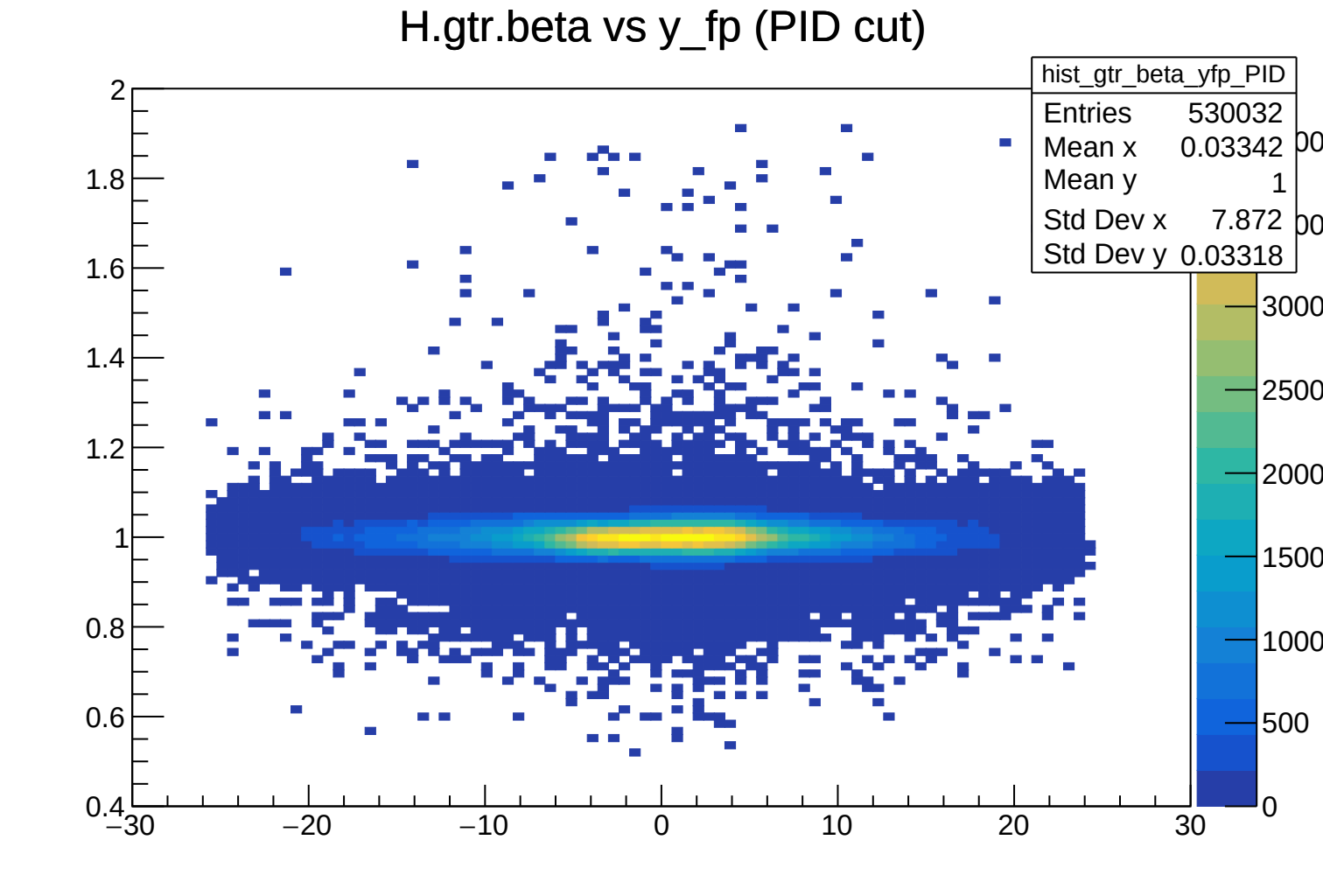

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 731207
Mean x −8.354
Mean y 0.9995
Std Dev x 24.02
Std Dev y 0.03764
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
1400
1200
1000
800
600
400
200
0

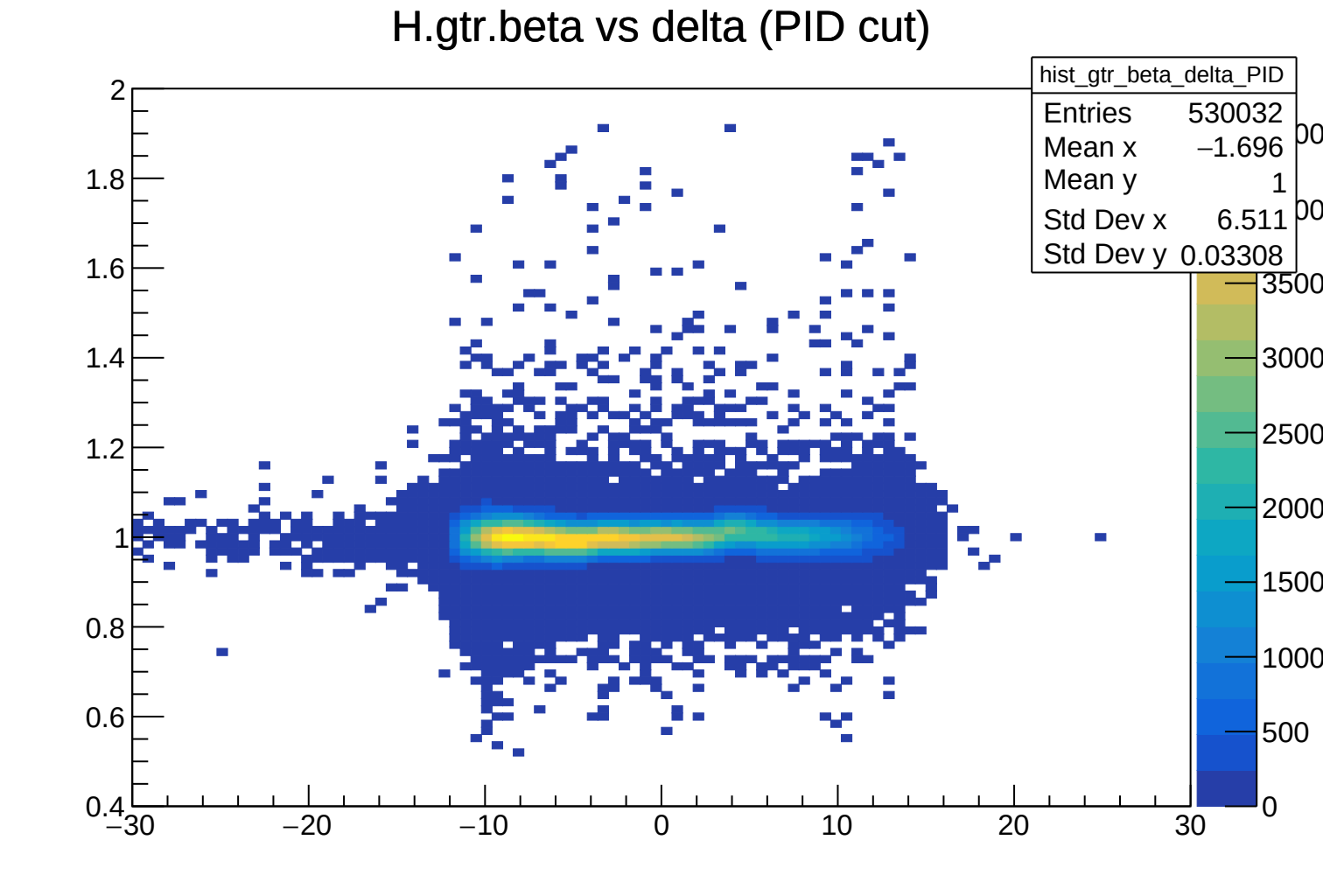

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 731207
Mean x −0.2419
Mean y 0.9994
Std Dev x 8.227
Std Dev y 0.03801
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
3000
2500
2000
1500
1000
500
0

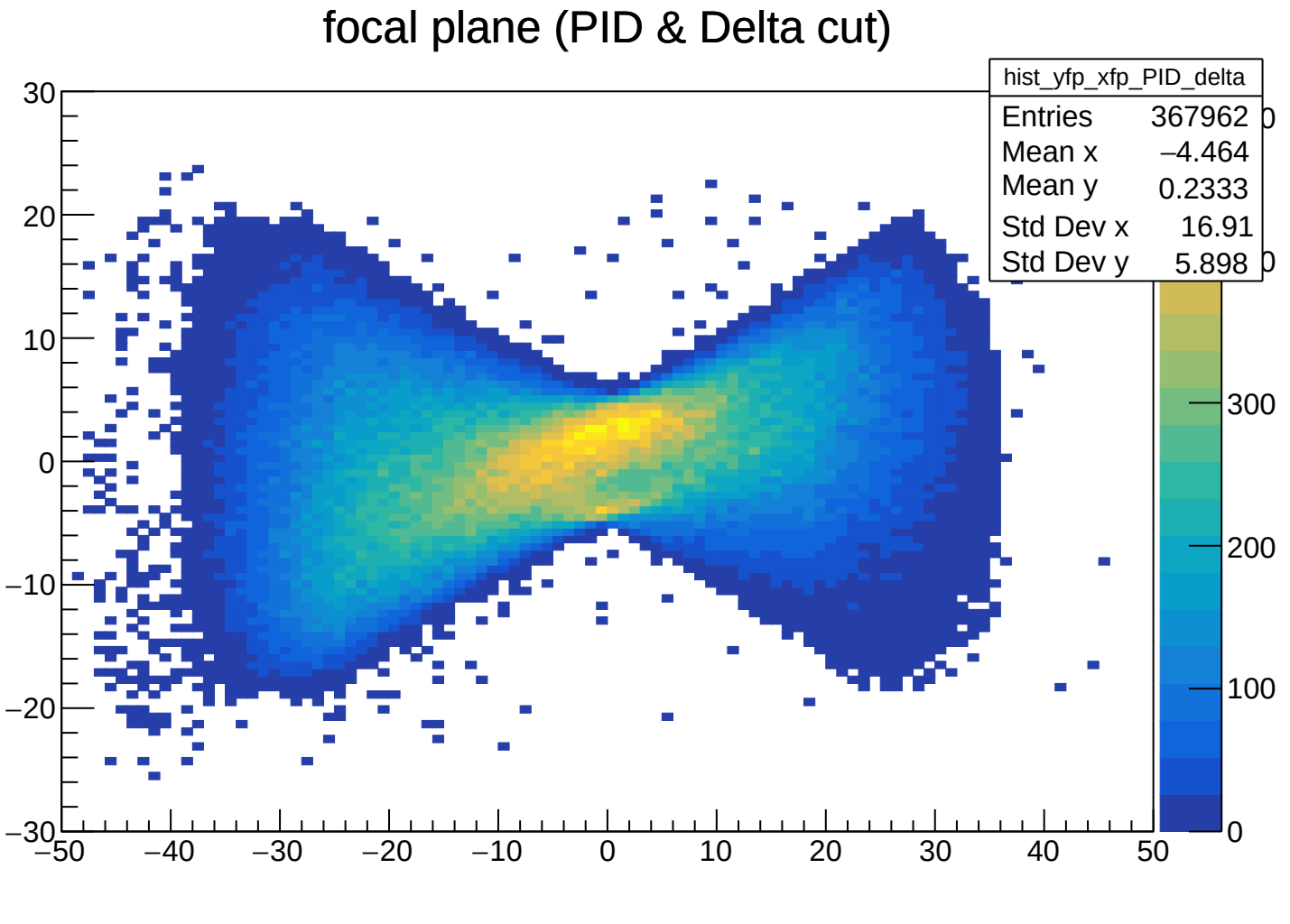

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 731207
Mean x −1.901
Mean y 0.9997
Std Dev x 6.556
Std Dev y 0.03585
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
3000
2000
1000
0

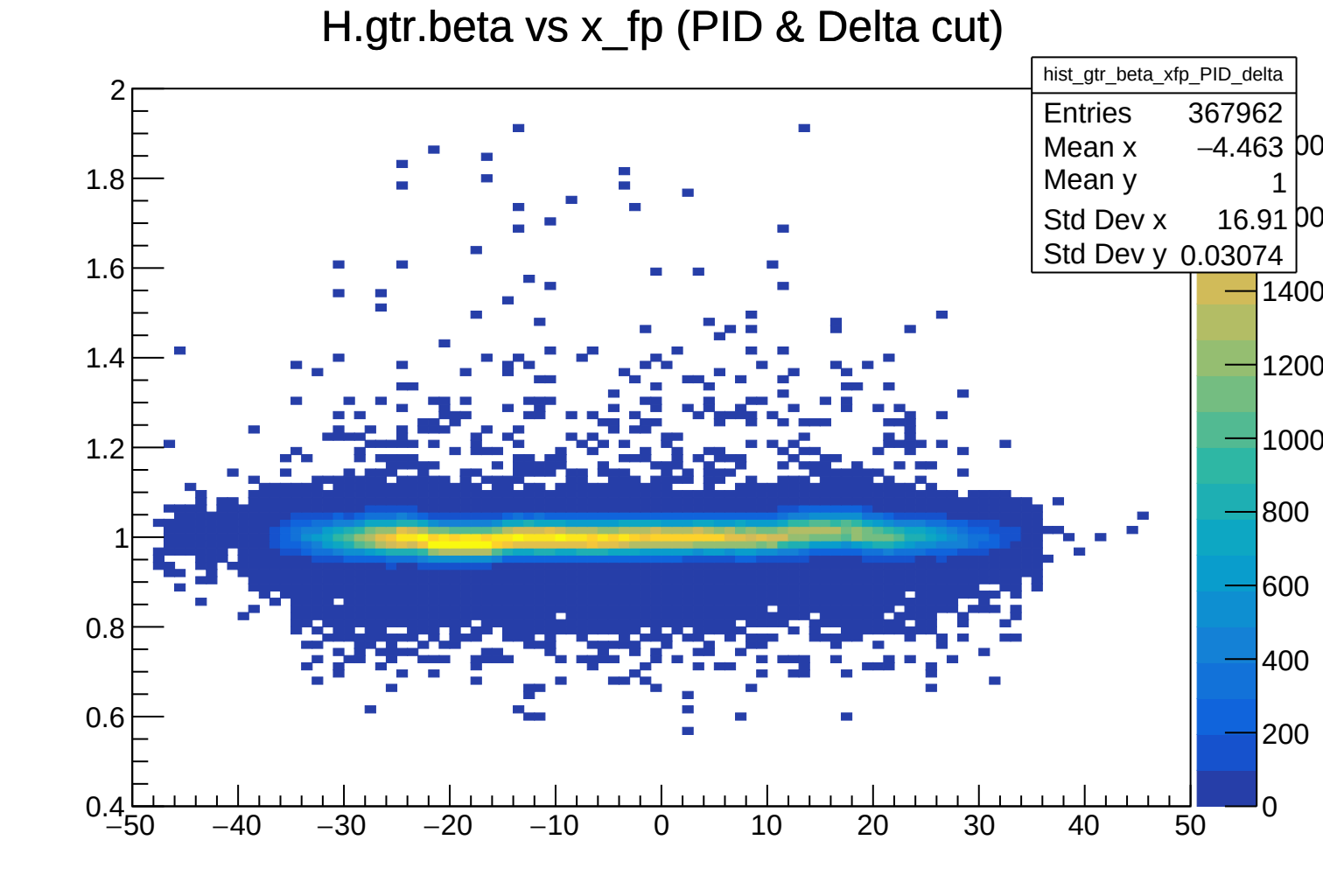

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 530032
Mean x −7.297
Mean y 0.03236
Std Dev x 23.82
Std Dev y 7.872
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
300
200
100
0

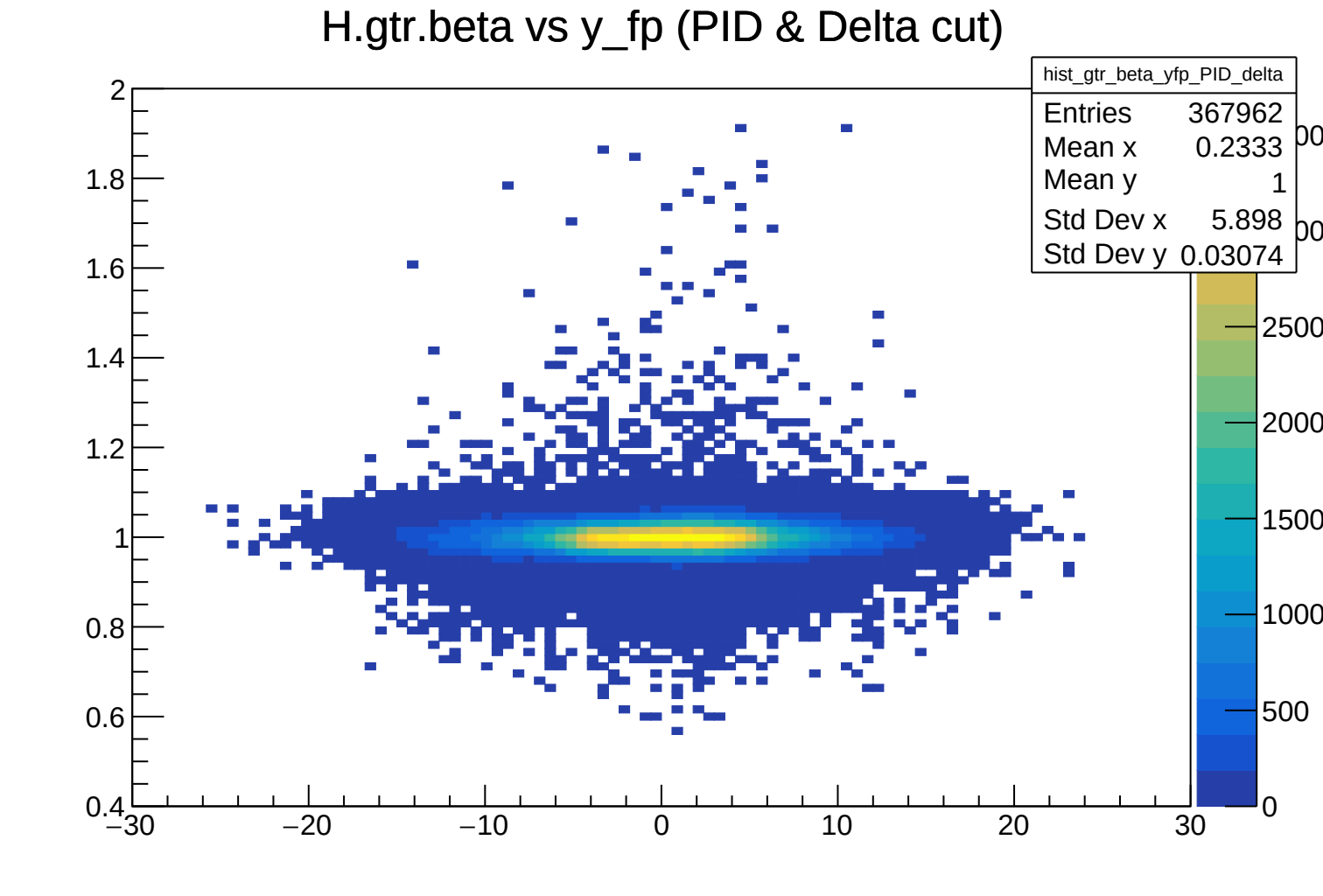

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 530032
Mean x −7.267
Mean y 1
Std Dev x 23.81
Std Dev y 0.03317
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
1400
1200
1000
800
600
400
200
0

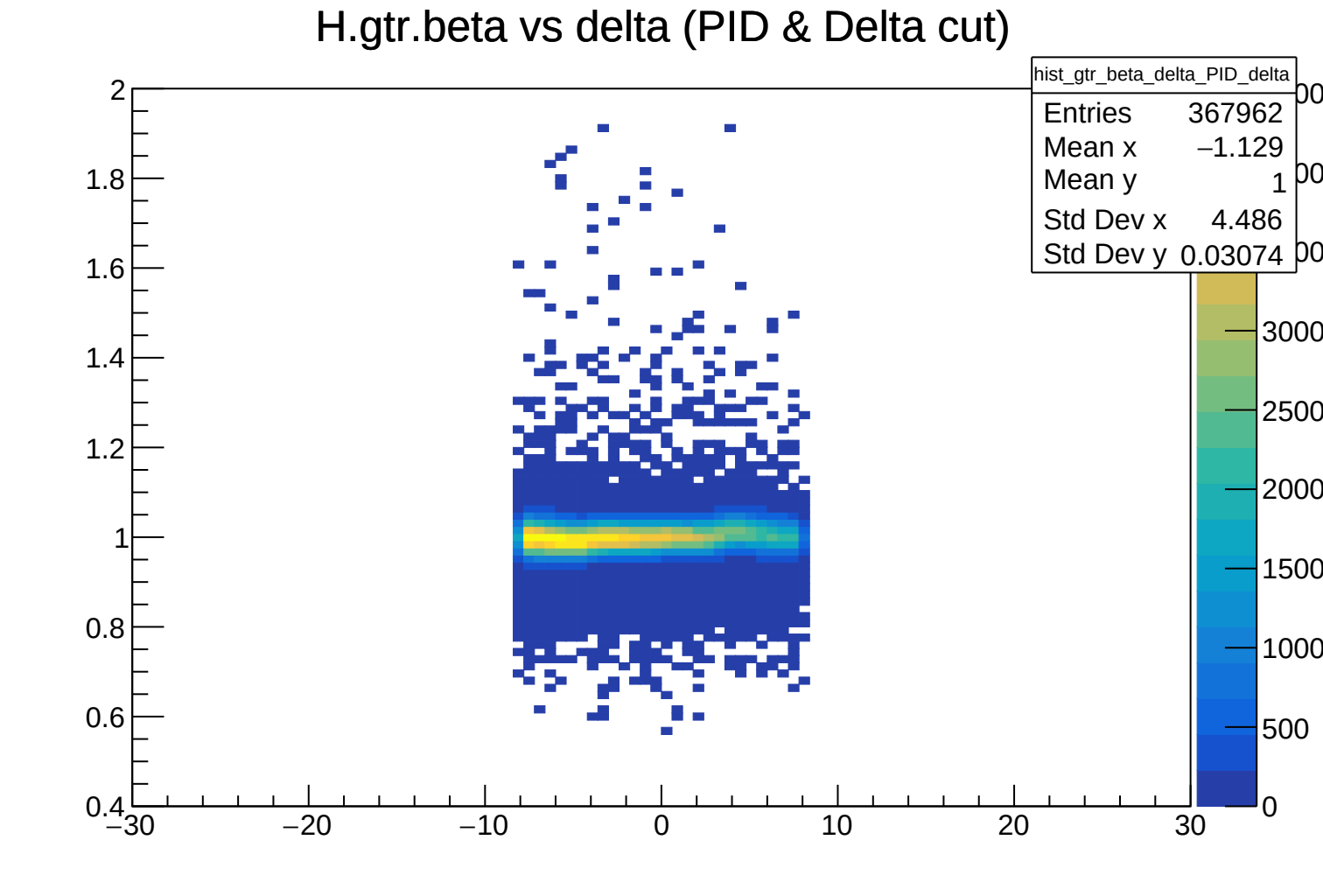

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 530032
Mean x 0.03342
Mean y 1
Std Dev x 7.872
Std Dev y 0.03318
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
3000
2500
2000
1500
1000
500
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 530032
Mean x −1.696
Mean y 1
Std Dev x 6.511
Std Dev y 0.03308
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 & Delta cut)
hist_yfp_xfp_PID_delta
Entries 367962
Mean x −4.464
Mean y 0.2333
Std Dev x 16.91
Std Dev y 5.898
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 367962
Mean x −4.463
Mean y 1
Std Dev x 16.91
Std Dev y 0.03074
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 (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 367962
Mean x 0.2333
Mean y 1
Std Dev x 5.898
Std Dev y 0.03074
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 367962
Mean x −1.129
Mean y 1
Std Dev x 4.486
Std Dev y 0.03074
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