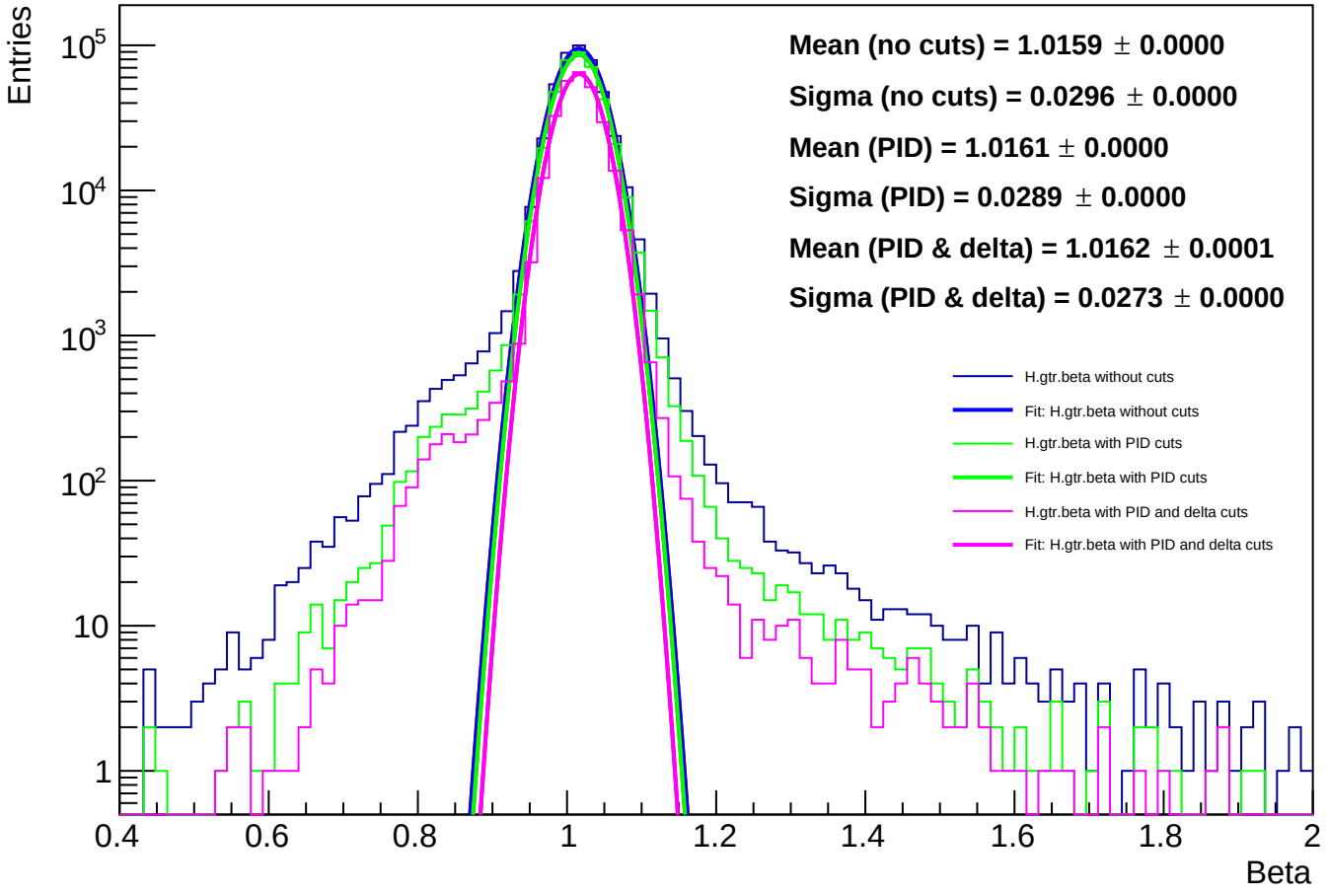
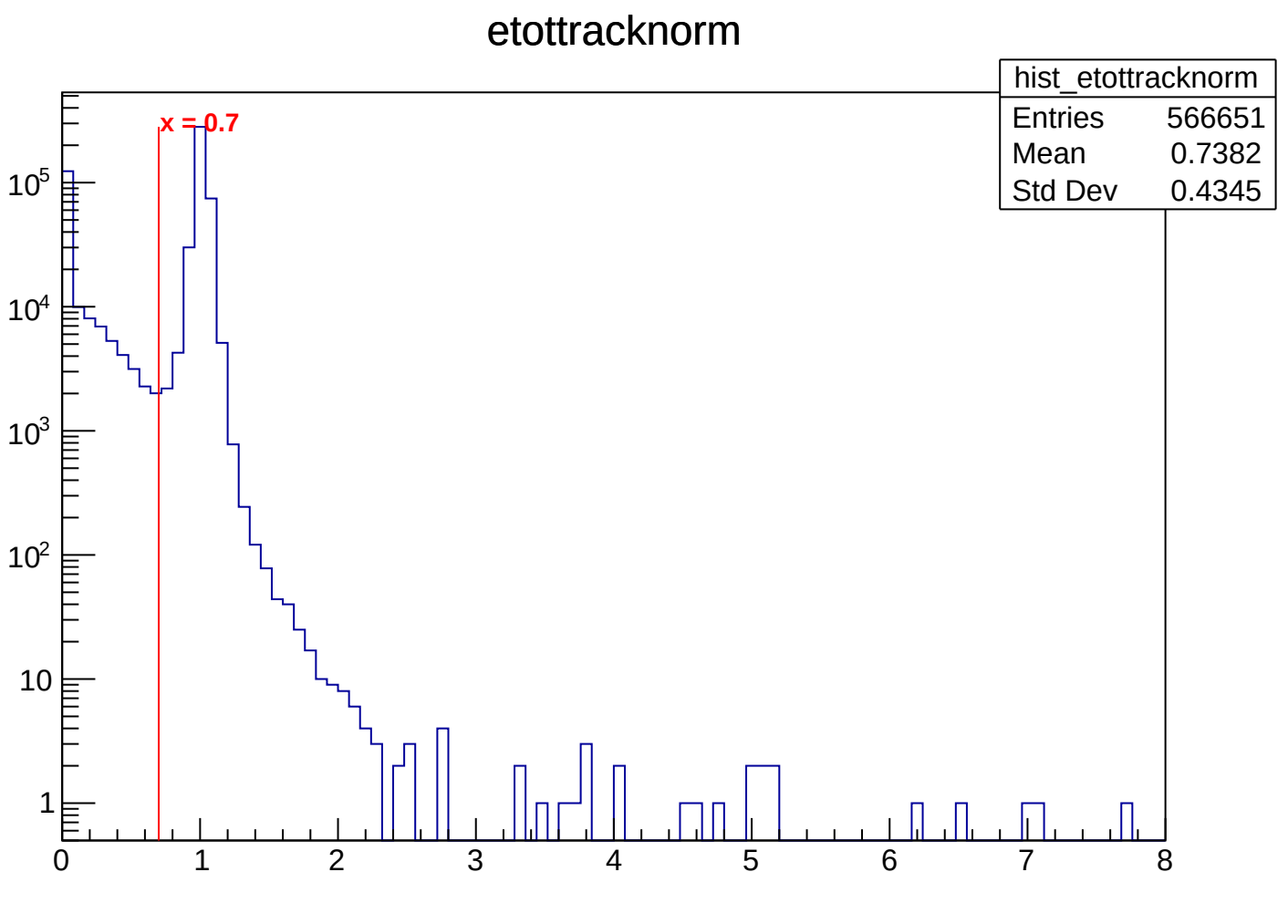
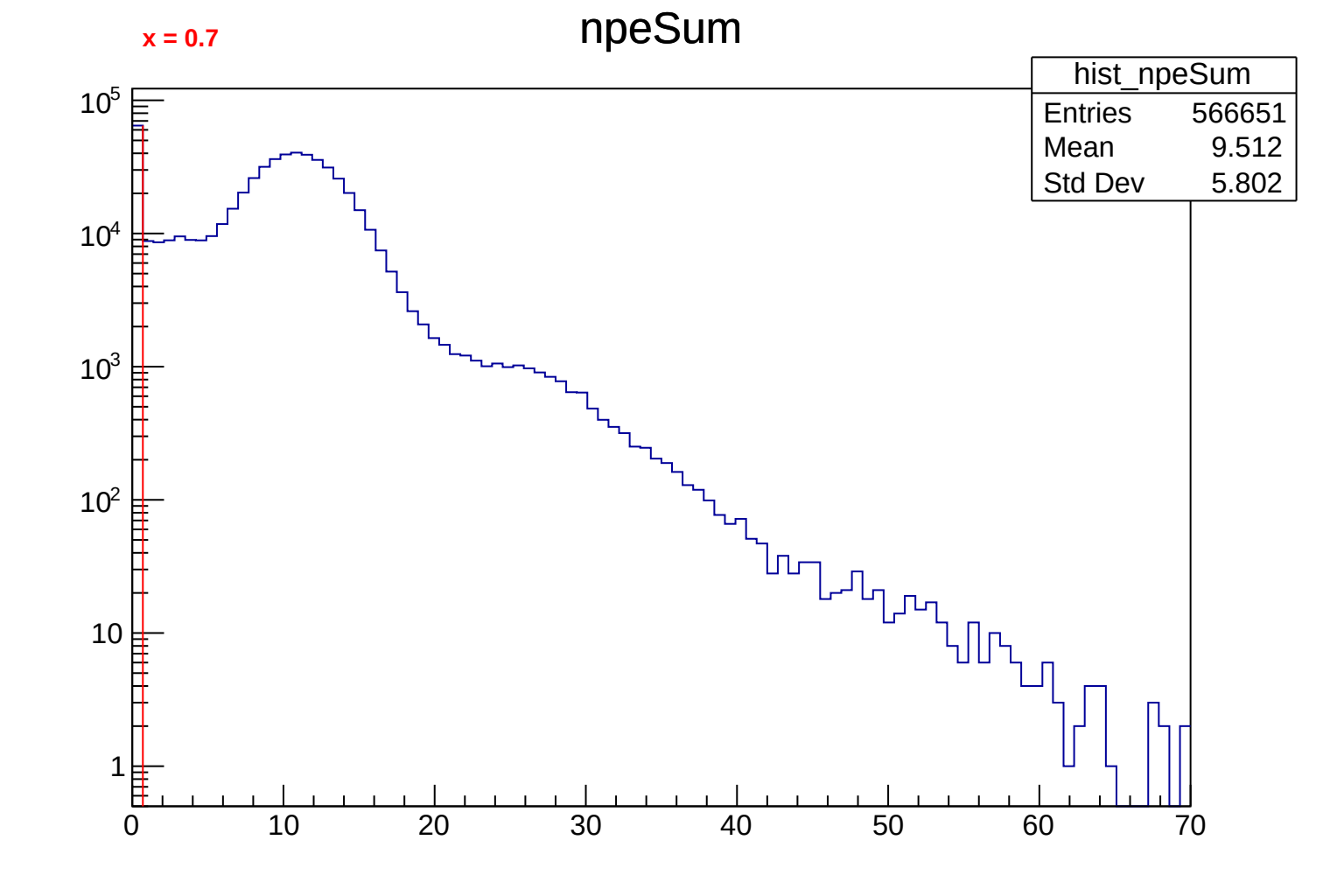
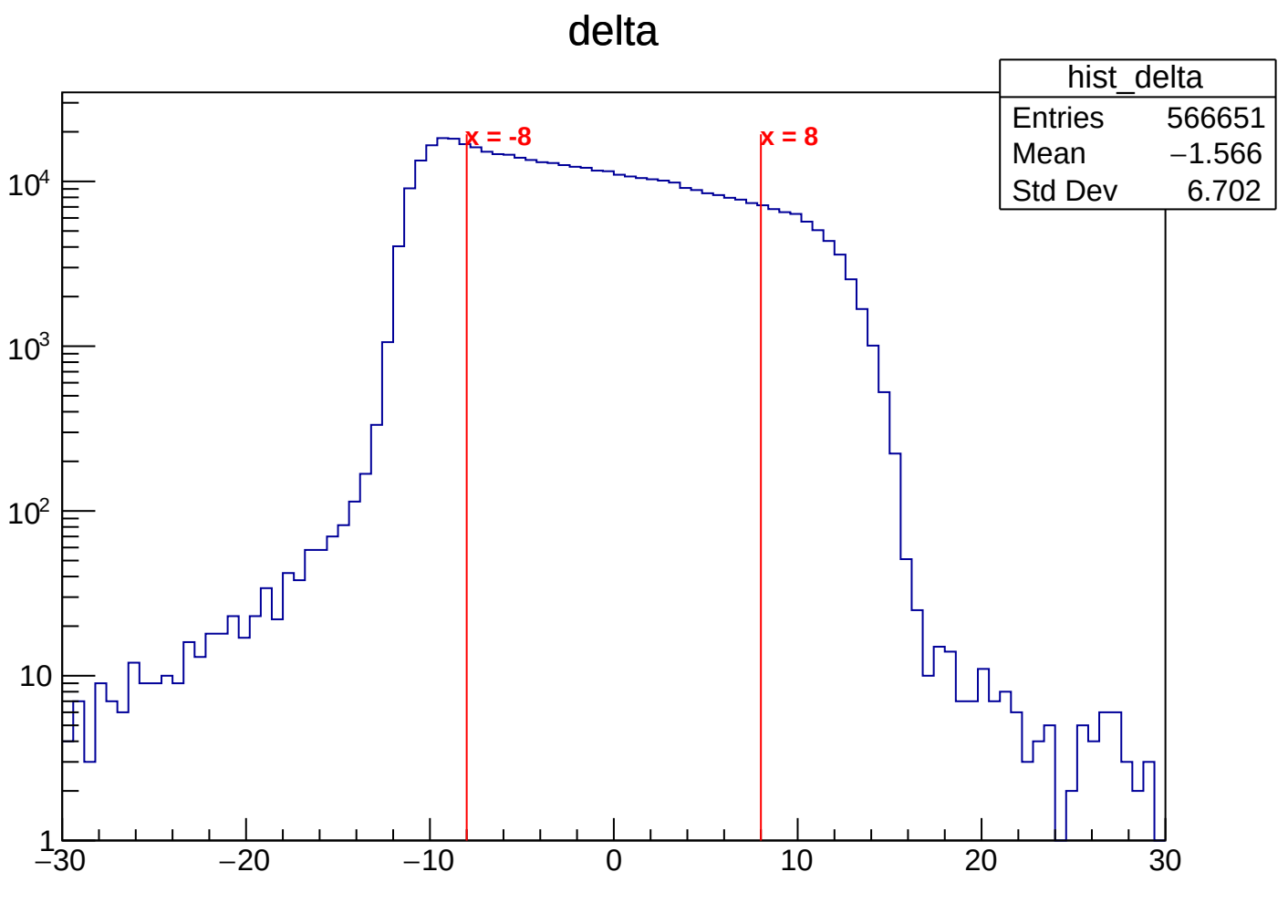
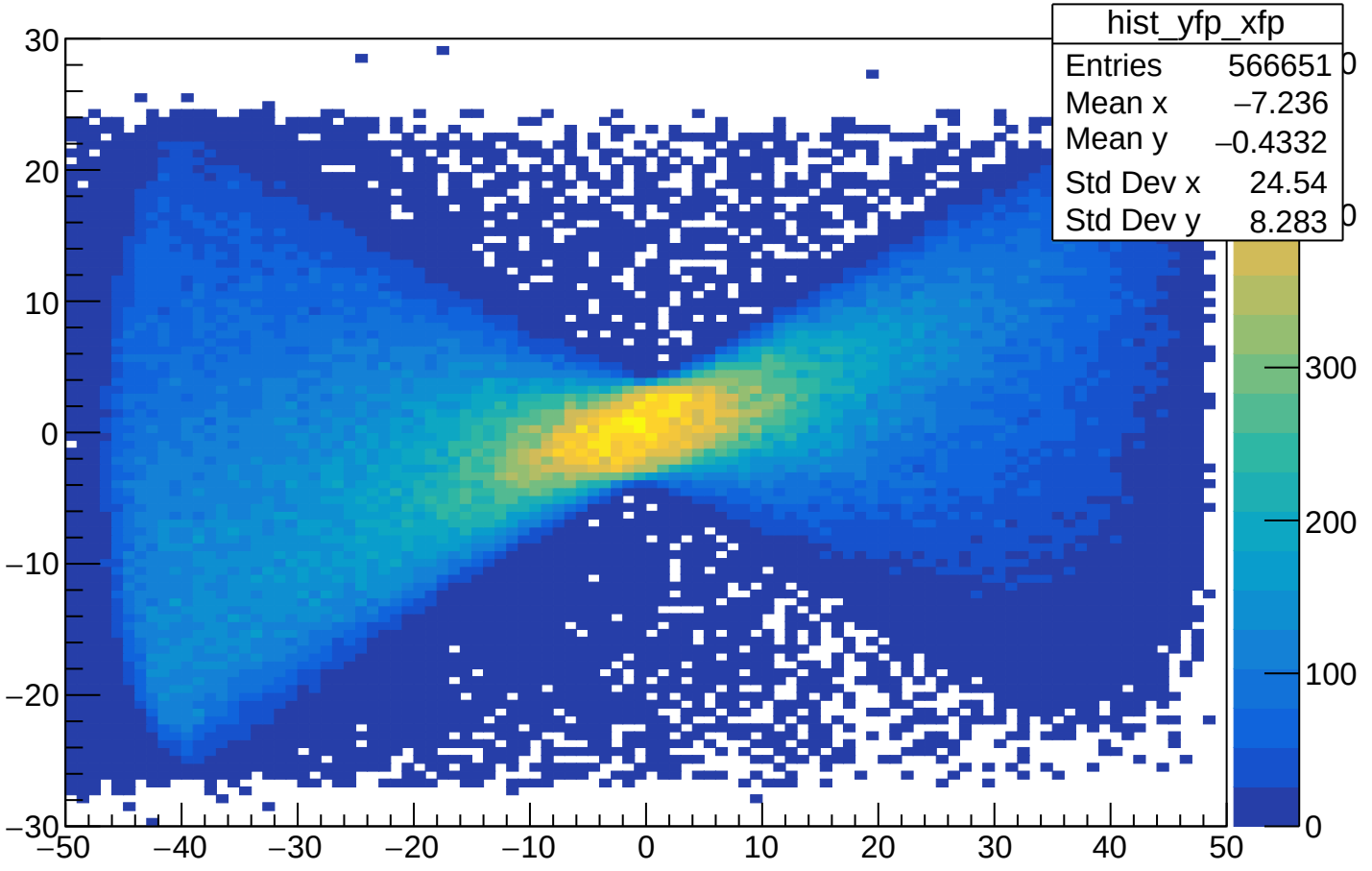
H.gtr.beta

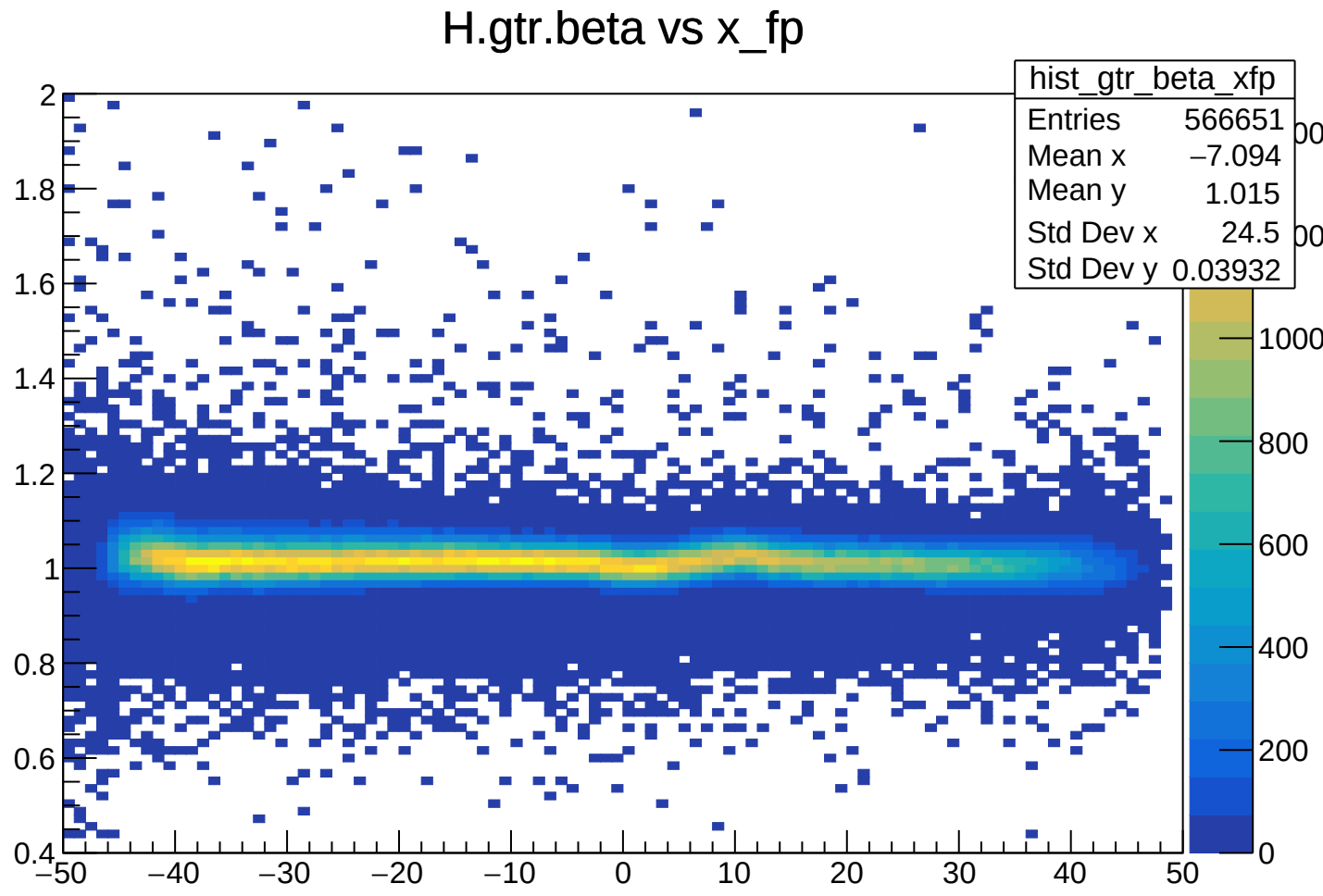

Entries
10^5
10^4
10^3
10^2
10
1
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
Beta
Mean (no cuts) = 1.0159 ± 0.0000
Sigma (no cuts) = 0.0296 ± 0.0000
Mean (PID) = 1.0161 ± 0.0000
Sigma (PID) = 0.0289 ± 0.0000
Mean (PID & delta) = 1.0162 ± 0.0001
Sigma (PID & delta) = 0.0273 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta 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

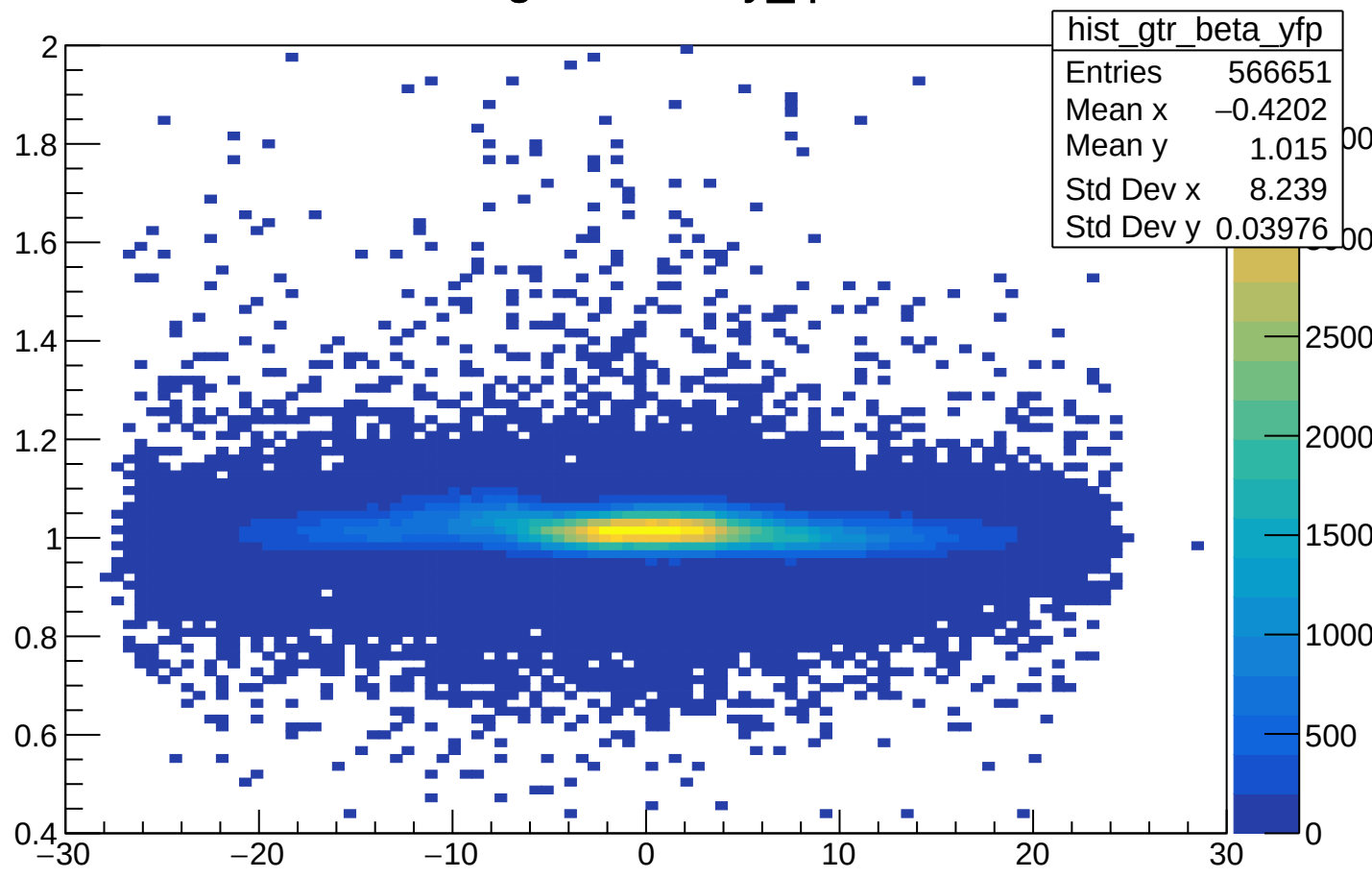

etottracknorm
hist_etottracknorm
Entries 566651
Mean 0.7382
Std Dev 0.4345
x = 0.7
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

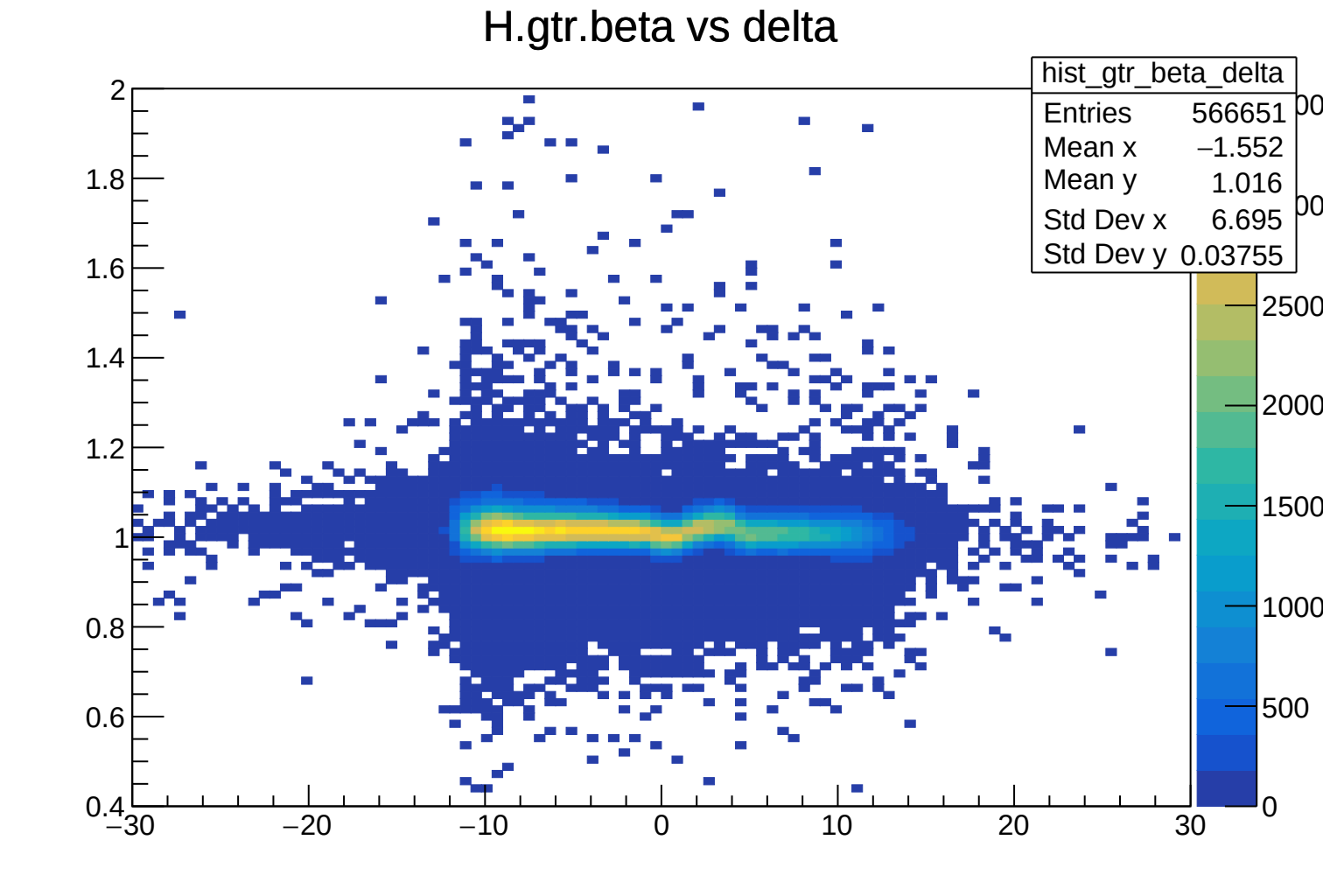

npeSum
x = 0.7
hist_npeSum
Entries 566651
Mean 9.512
Std Dev 5.802
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70

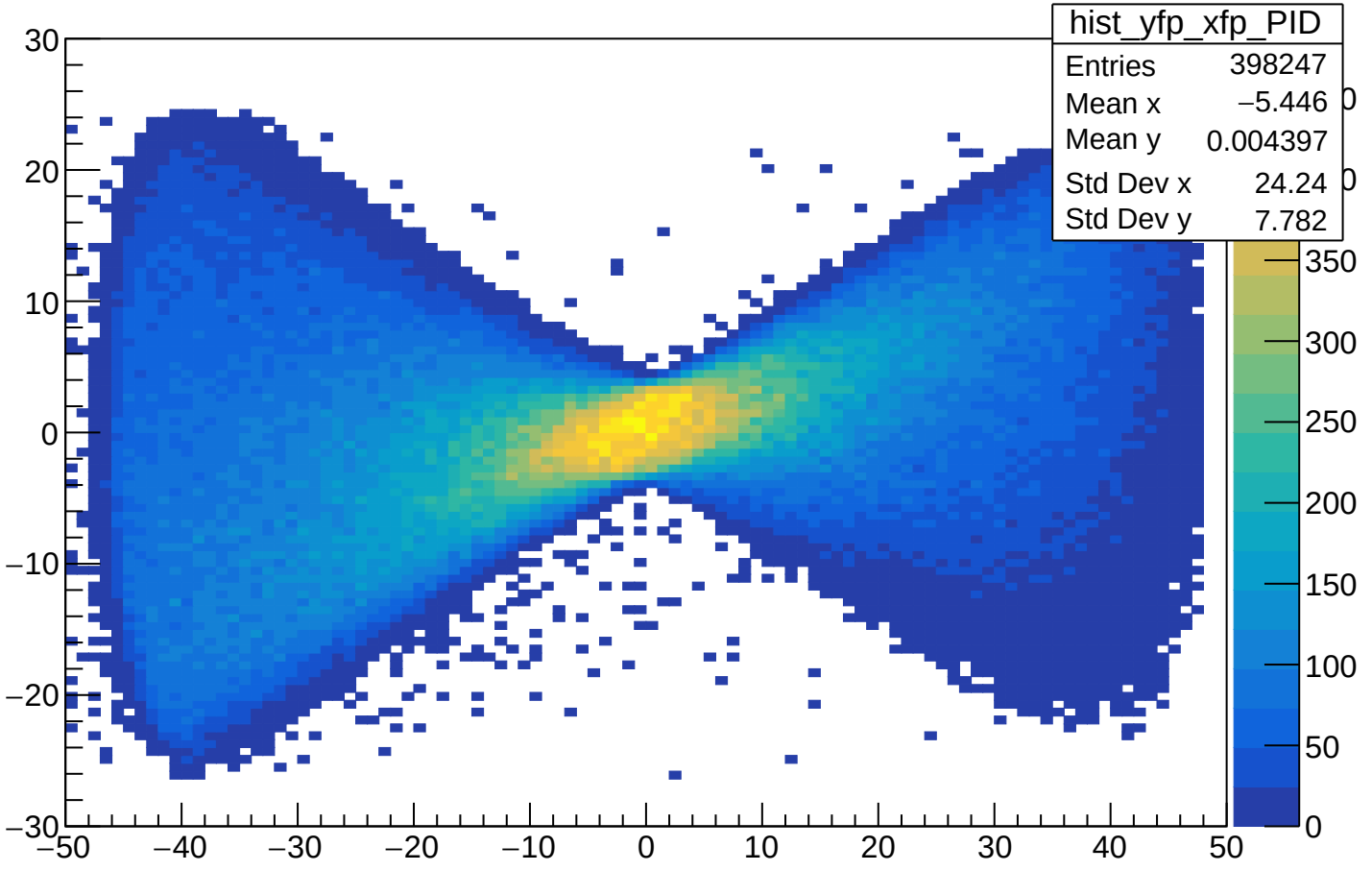

delta
hist_delta
Entries 566651
Mean −1.566
Std Dev 6.702
x = -8
x = 8
10^4
10^3
10^2
10
1
−30
−20
−10
0
10
20
30

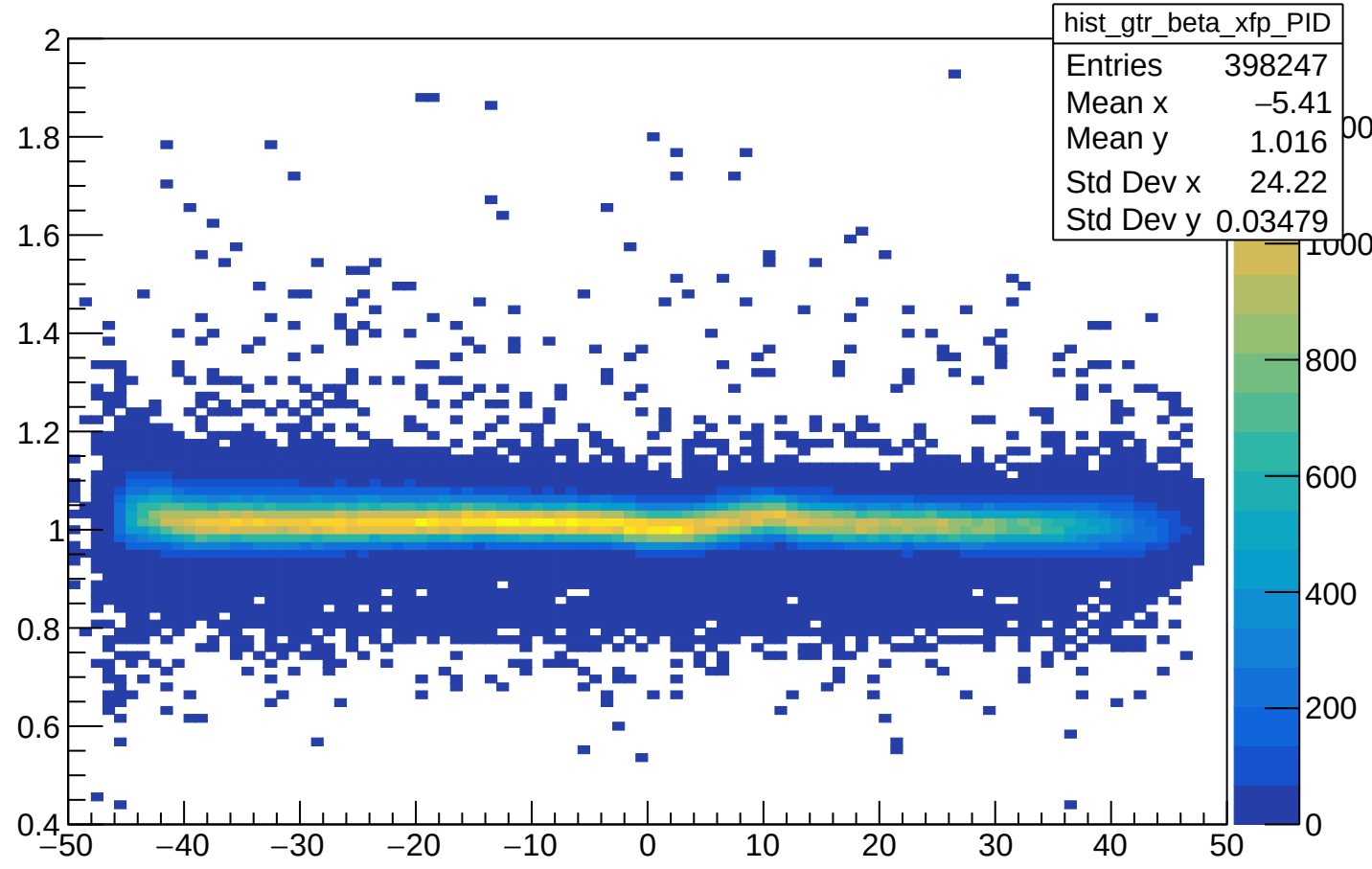

focal plane
hist_yfp_xfp
Entries 566651
Mean x −7.236
Mean y −0.4332
Std Dev x 24.54
Std Dev y 8.283
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
300
200
100
0

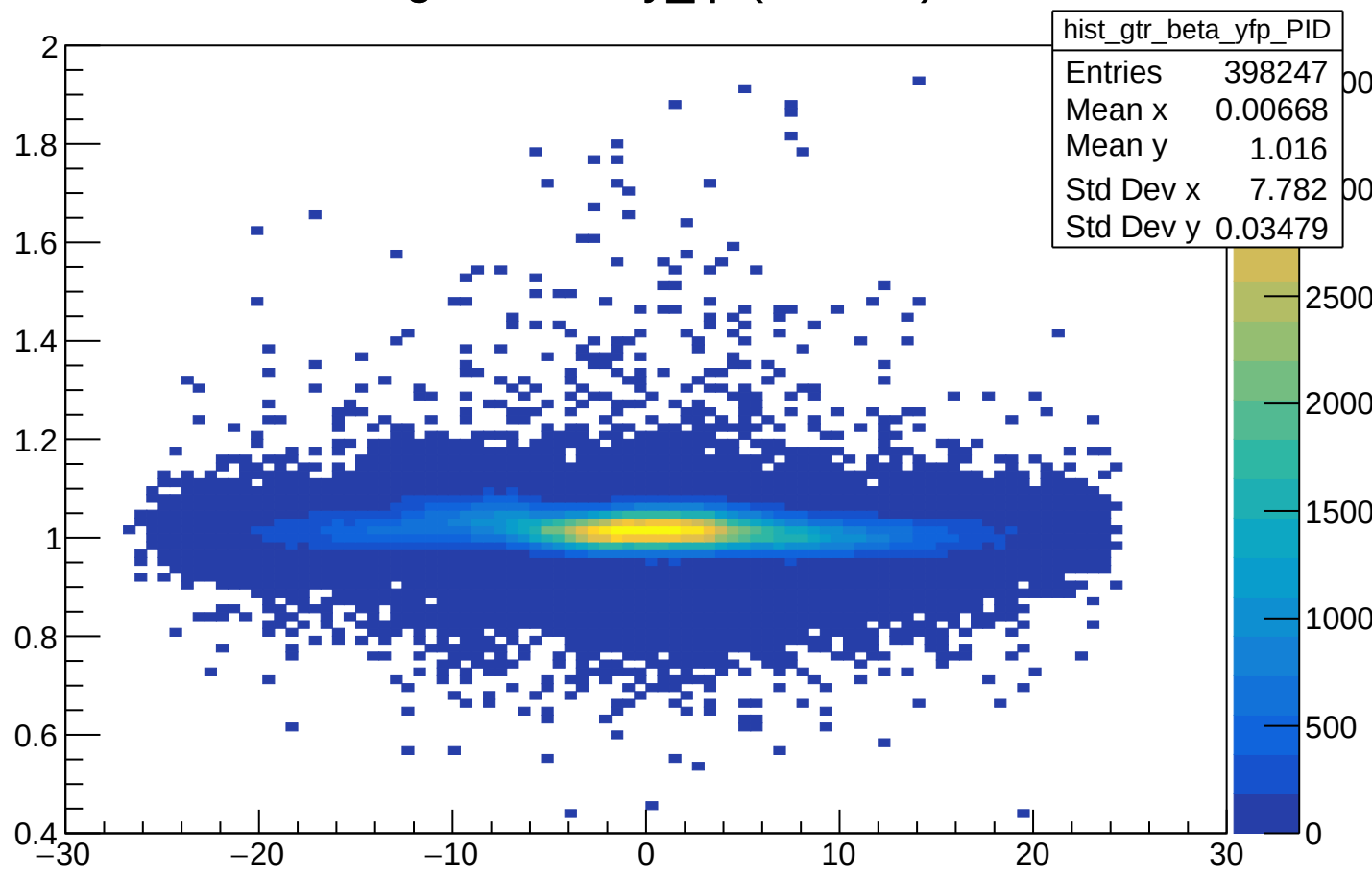

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 566651
Mean x −7.094
Mean y 1.015
Std Dev x 24.5
Std Dev y 0.03932
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
1000
800
600
400
200
0

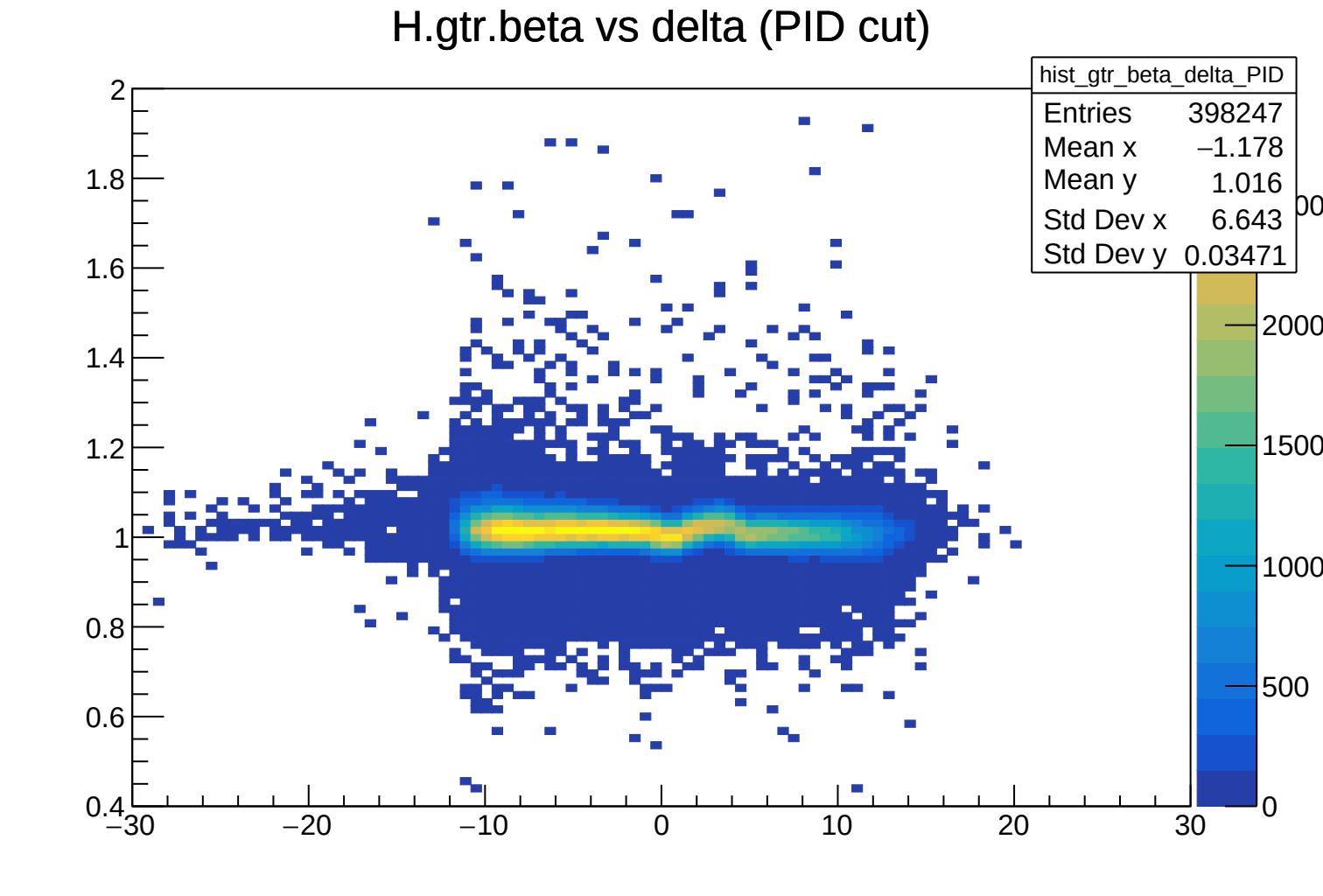

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 566651
Mean x −0.4202
Mean y 1.015
Std Dev x 8.239
Std Dev y 0.03976
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2500
2000
1500
1000
500
0

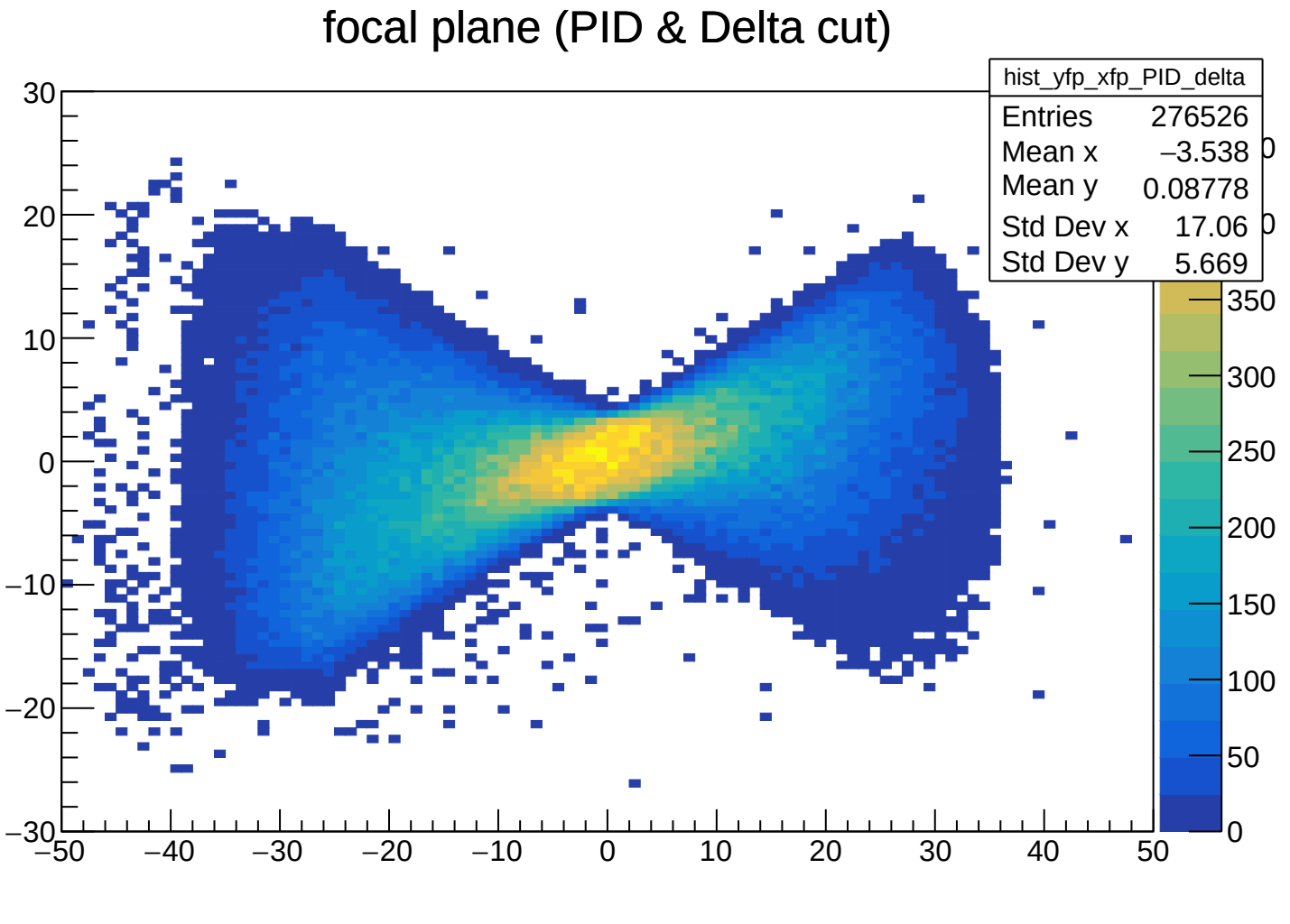

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 566651
Mean x −1.552
Mean y 1.016
Std Dev x 6.695
Std Dev y 0.03755
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2500
2000
1500
1000
500
0

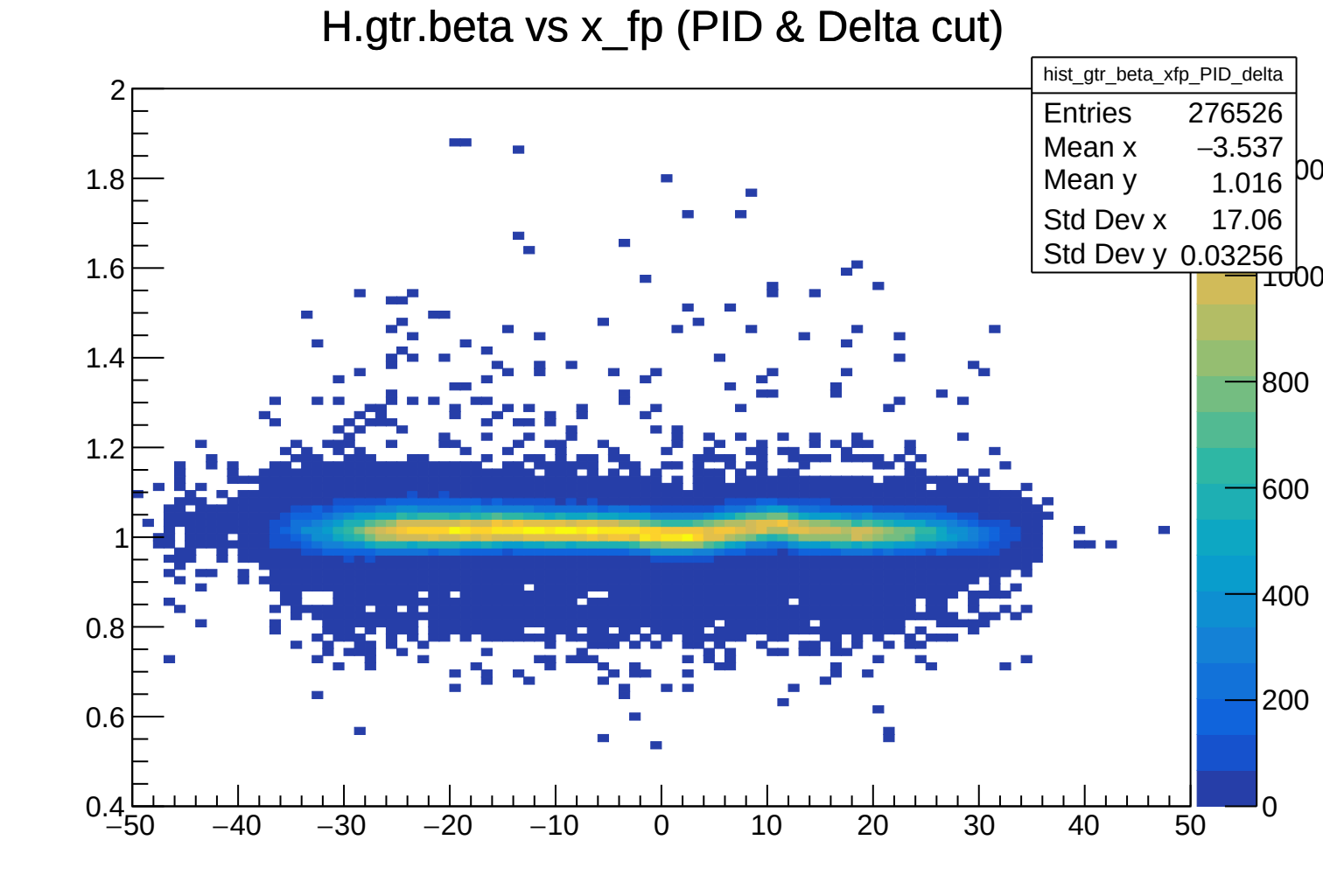

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 398247
Mean x −5.446
Mean y 0.004397
Std Dev x 24.24
Std Dev y 7.782
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
350
300
250
200
150
100
50
0

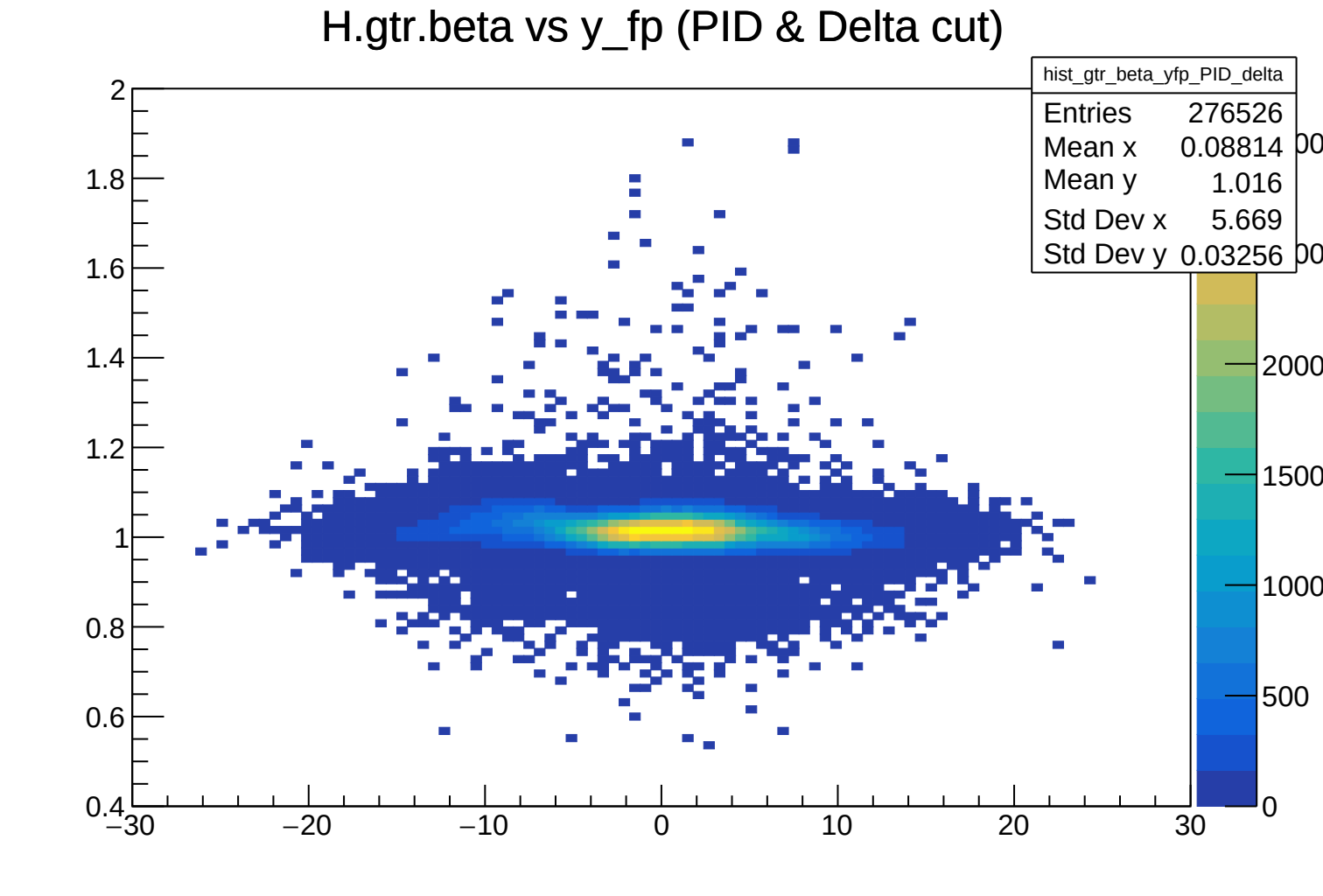

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 398247
Mean x −5.41
Mean y 1.016
Std Dev x 24.22
Std Dev y 0.03479
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
1000
800
600
400
200
0

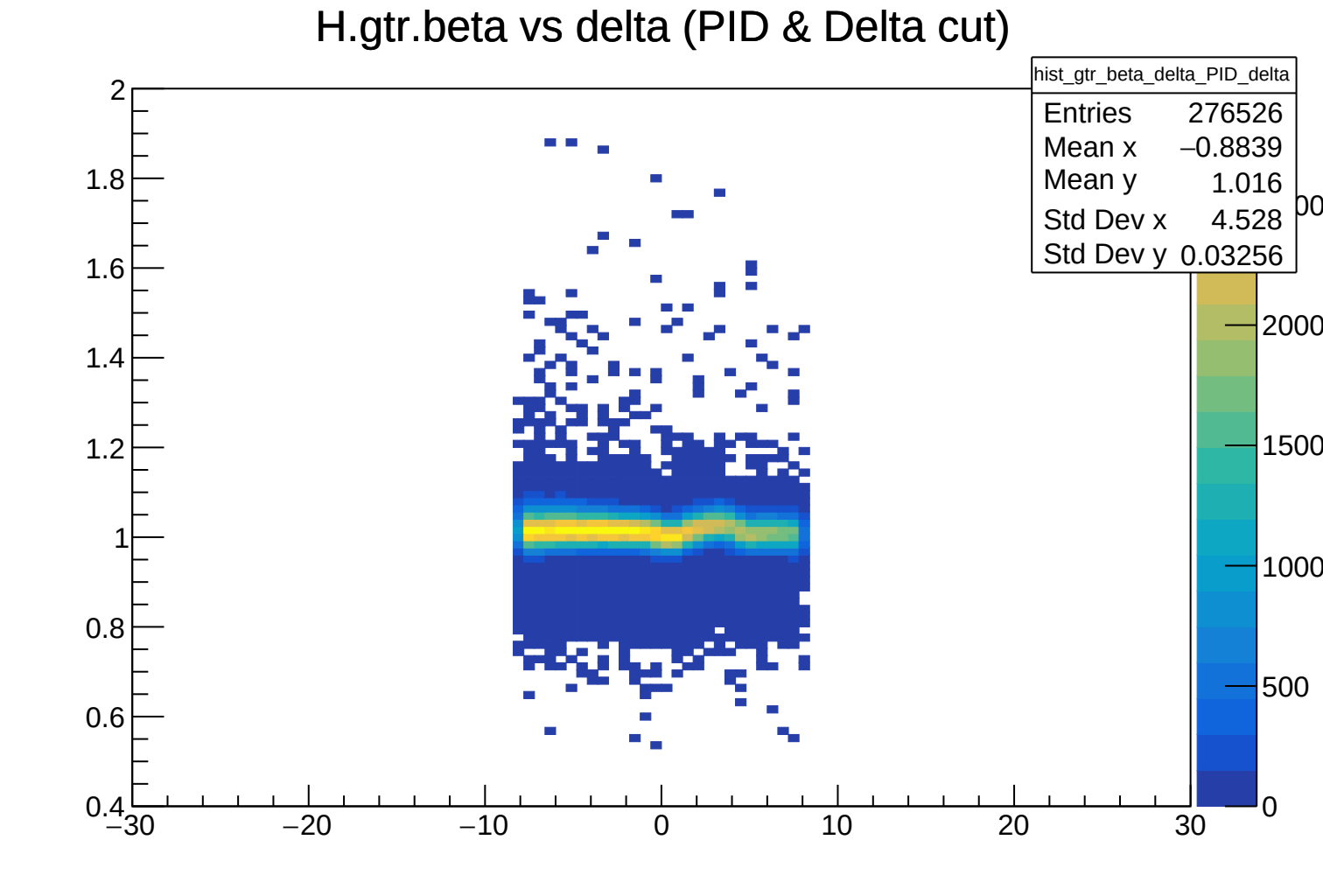

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 398247
Mean x 0.00668
Mean y 1.016
Std Dev x 7.782
Std Dev y 0.03479
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2500
2000
1500
1000
500
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 398247
Mean x −1.178
Mean y 1.016
Std Dev x 6.643
Std Dev y 0.03471
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2000
1500
1000
500
0


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 276526
Mean x −3.538
Mean y 0.08778
Std Dev x 17.06
Std Dev y 5.669
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
350
300
250
200
150
100
50
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 276526
Mean x −3.537
Mean y 1.016
Std Dev x 17.06
Std Dev y 0.03256
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
1000
800
600
400
200
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 276526
Mean x 0.08814
Mean y 1.016
Std Dev x 5.669
Std Dev y 0.03256
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2000
1500
1000
500
0


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 276526
Mean x −0.8839
Mean y 1.016
Std Dev x 4.528
Std Dev y 0.03256
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
2000
1500
1000
500
0