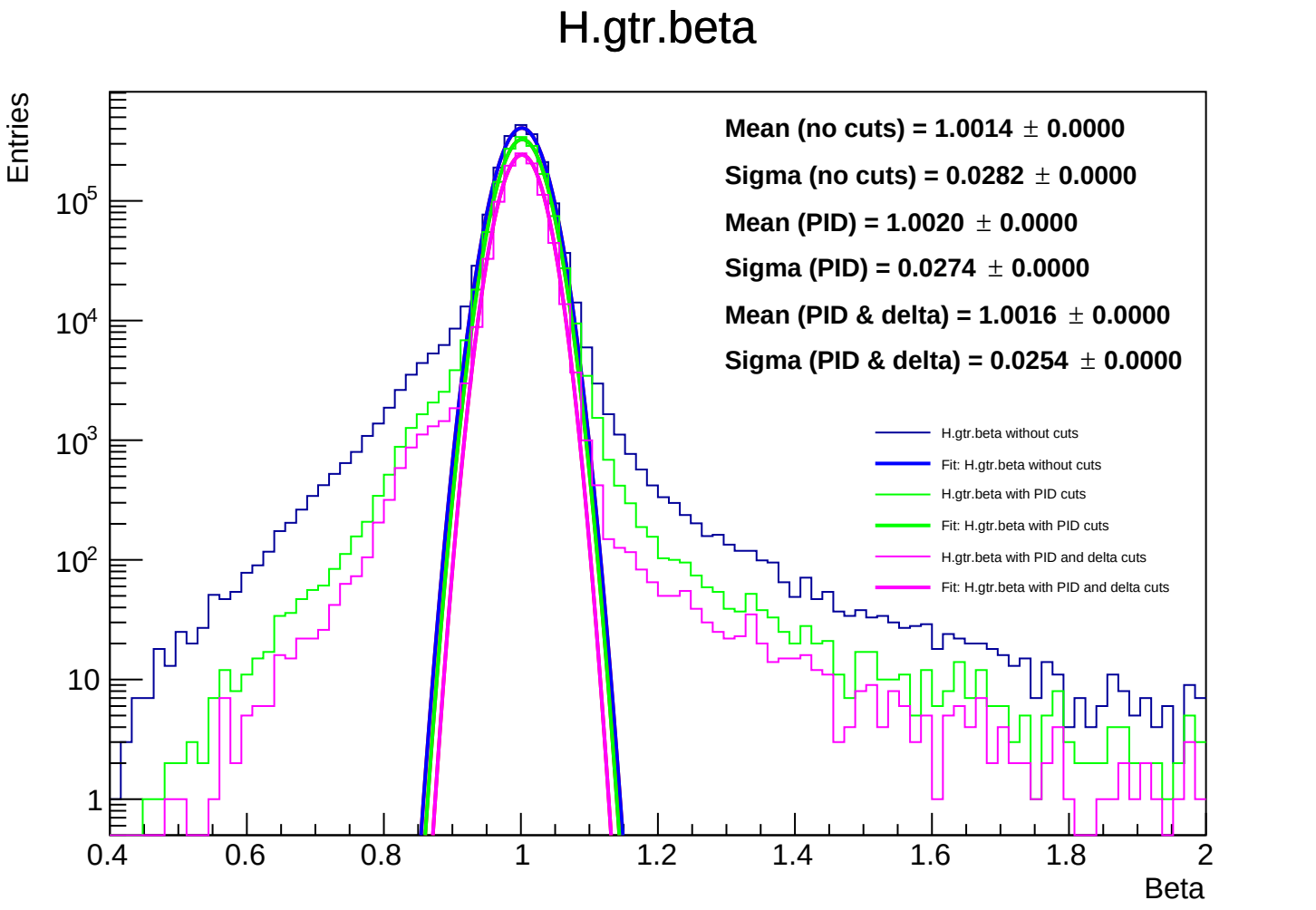
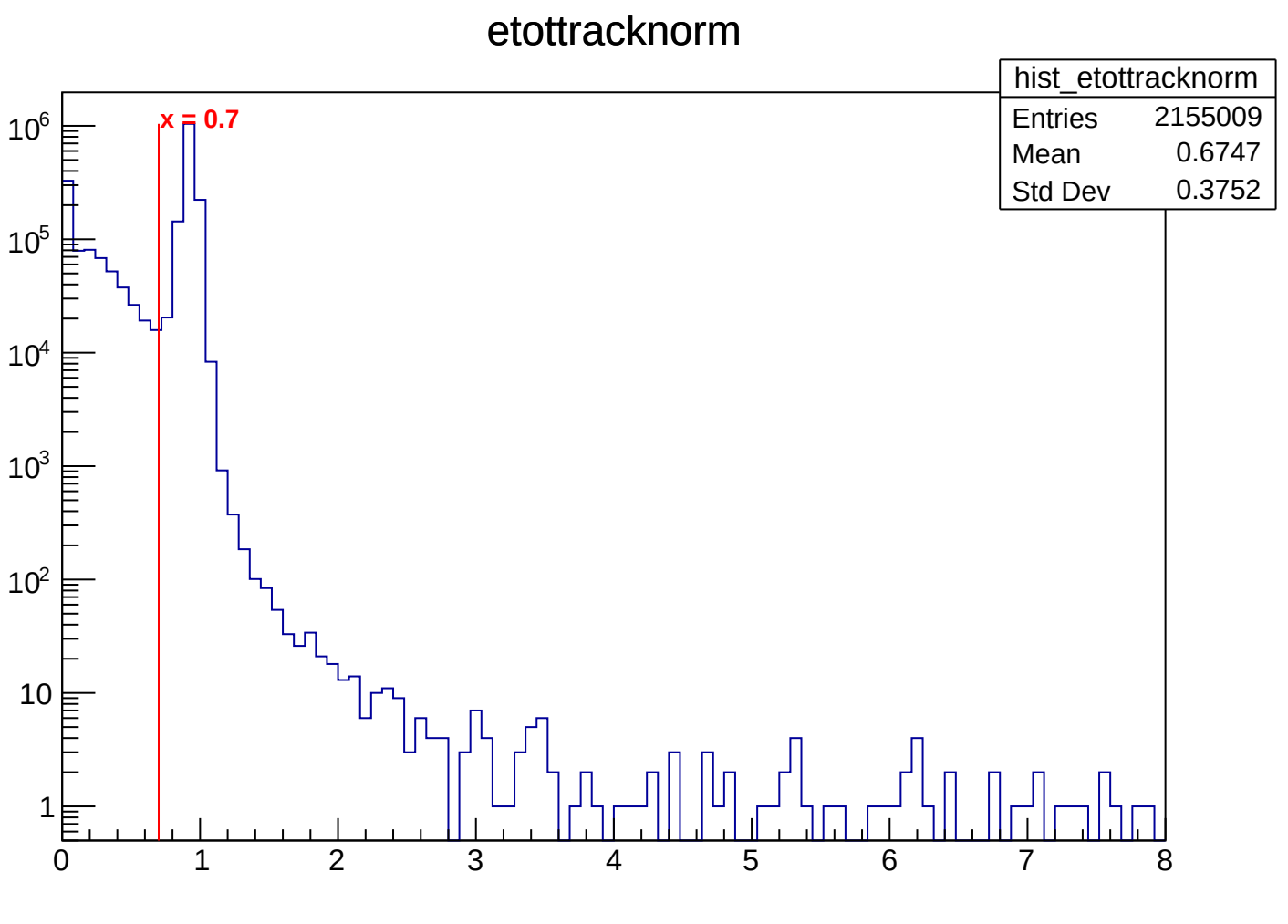
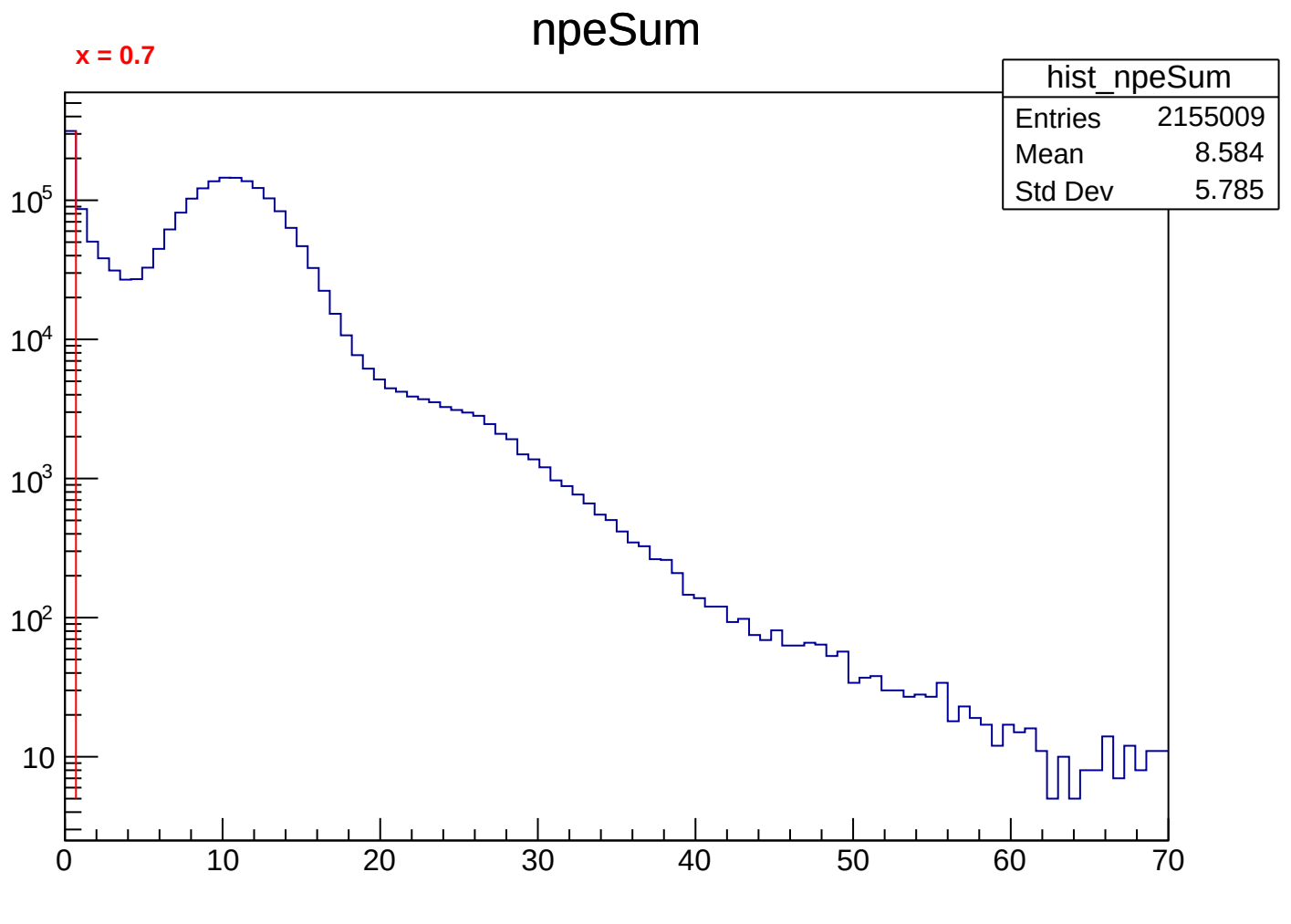
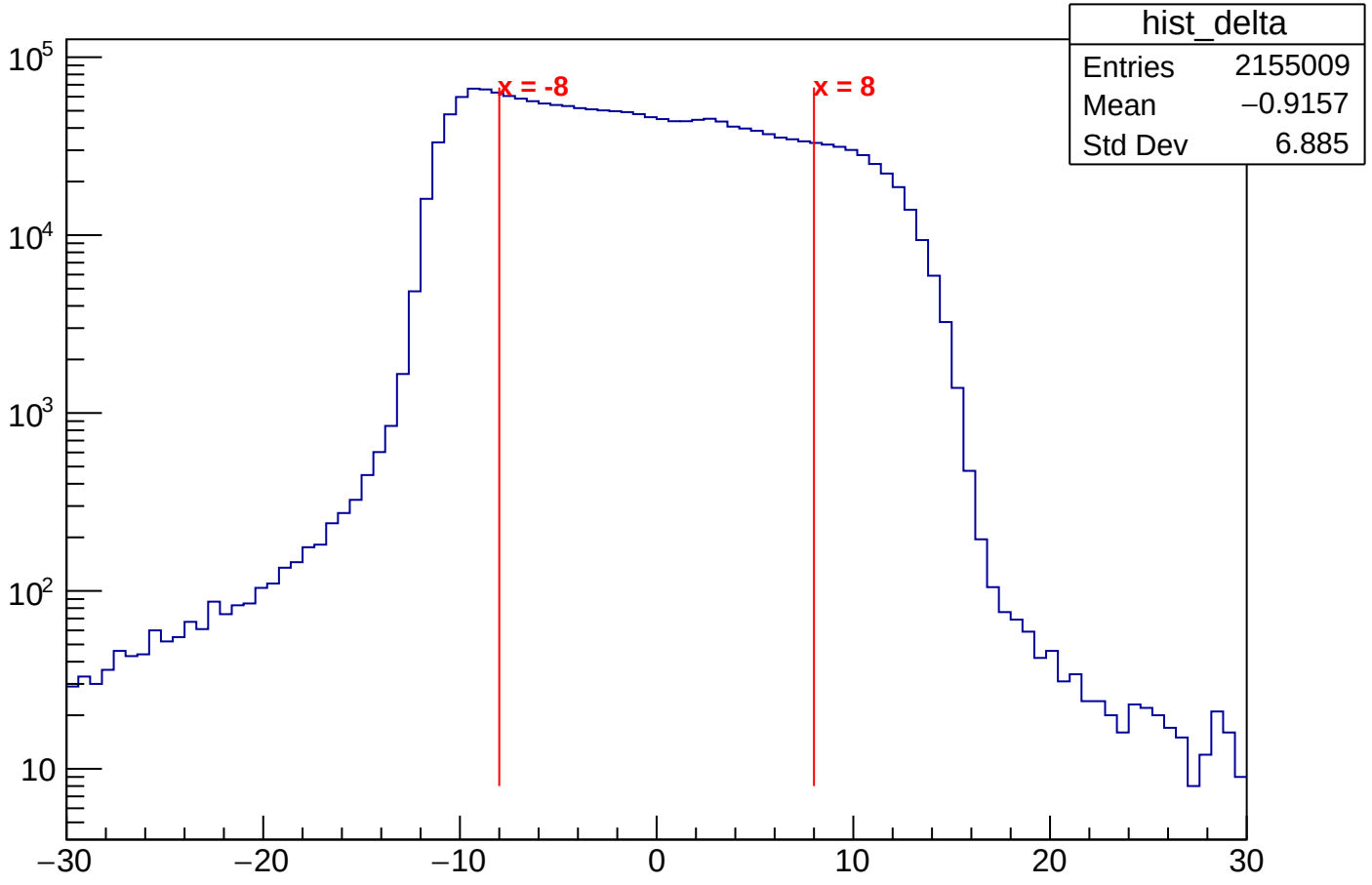
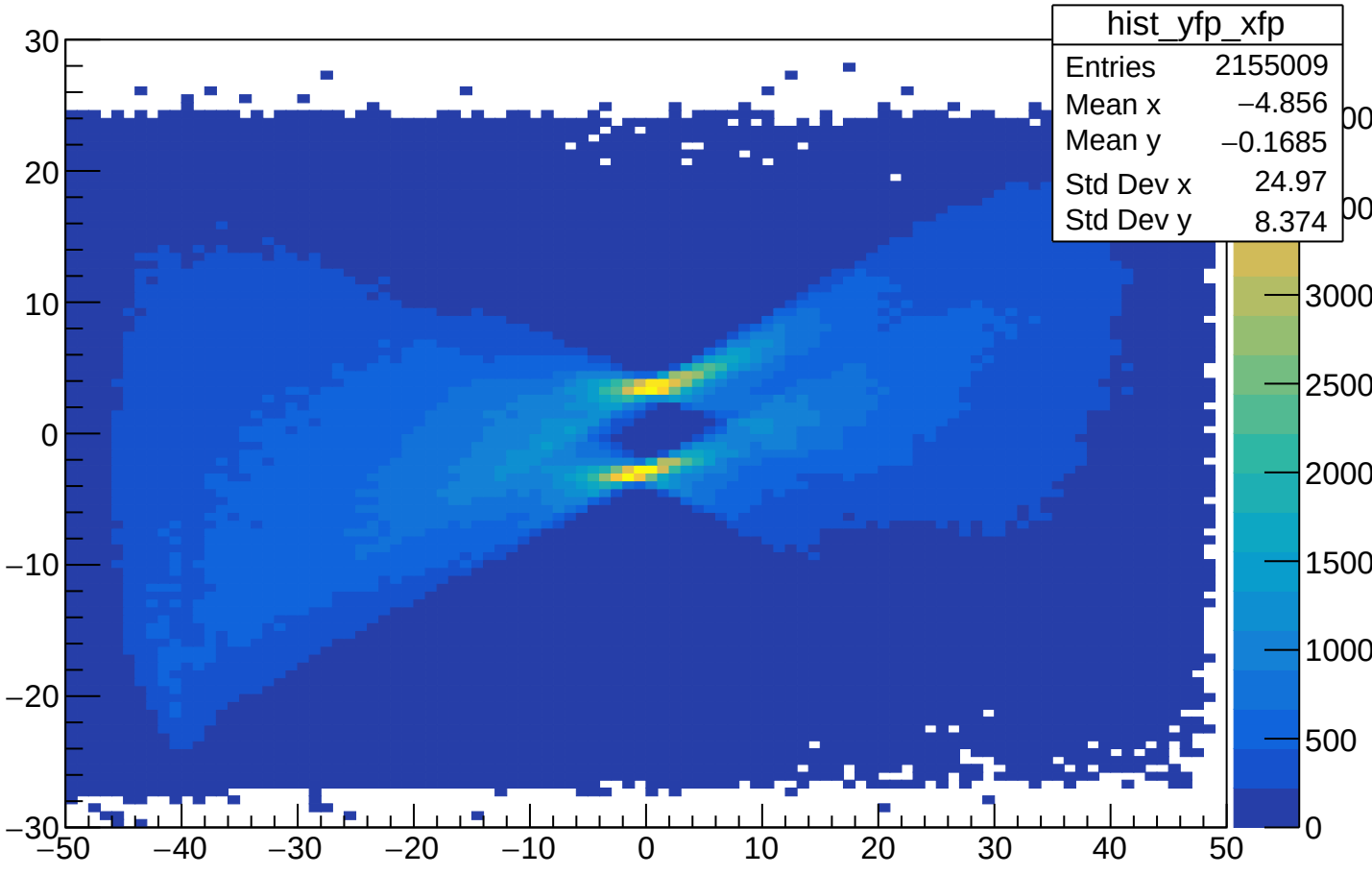
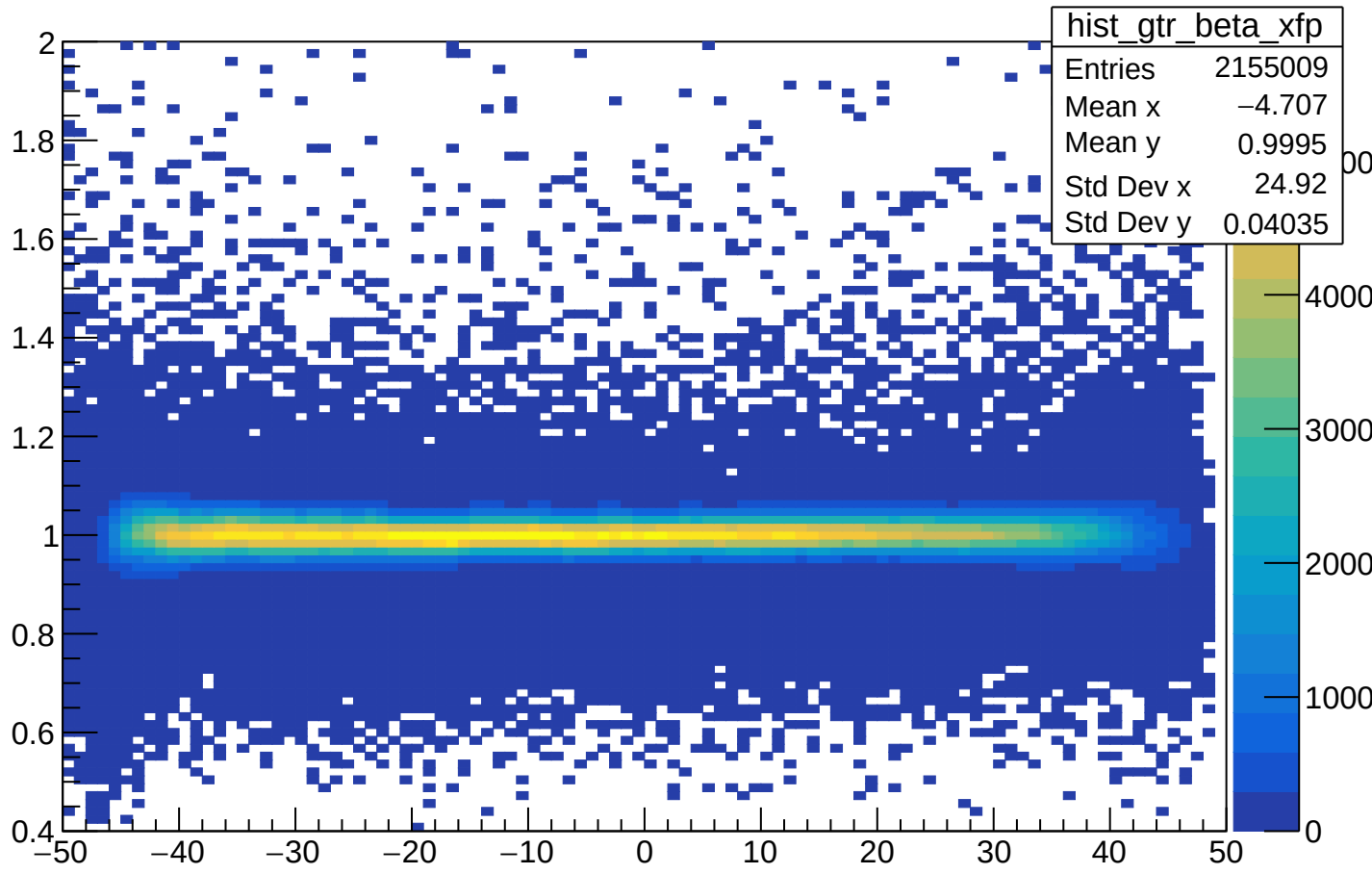

H.gtr.beta
Entries
Beta
Mean (no cuts) = 1.0014 ± 0.0000
Sigma (no cuts) = 0.0282 ± 0.0000
Mean (PID) = 1.0020 ± 0.0000
Sigma (PID) = 0.0274 ± 0.0000
Mean (PID & delta) = 1.0016 ± 0.0000
Sigma (PID & delta) = 0.0254 ± 0.0000
H.gtr.beta without cuts
Fit: H.gtr.beta without cuts
H.gtr.beta with PID cuts
Fit: H.gtr.beta with PID cuts
H.gtr.beta with PID and delta cuts
Fit: H.gtr.beta with PID and delta cuts

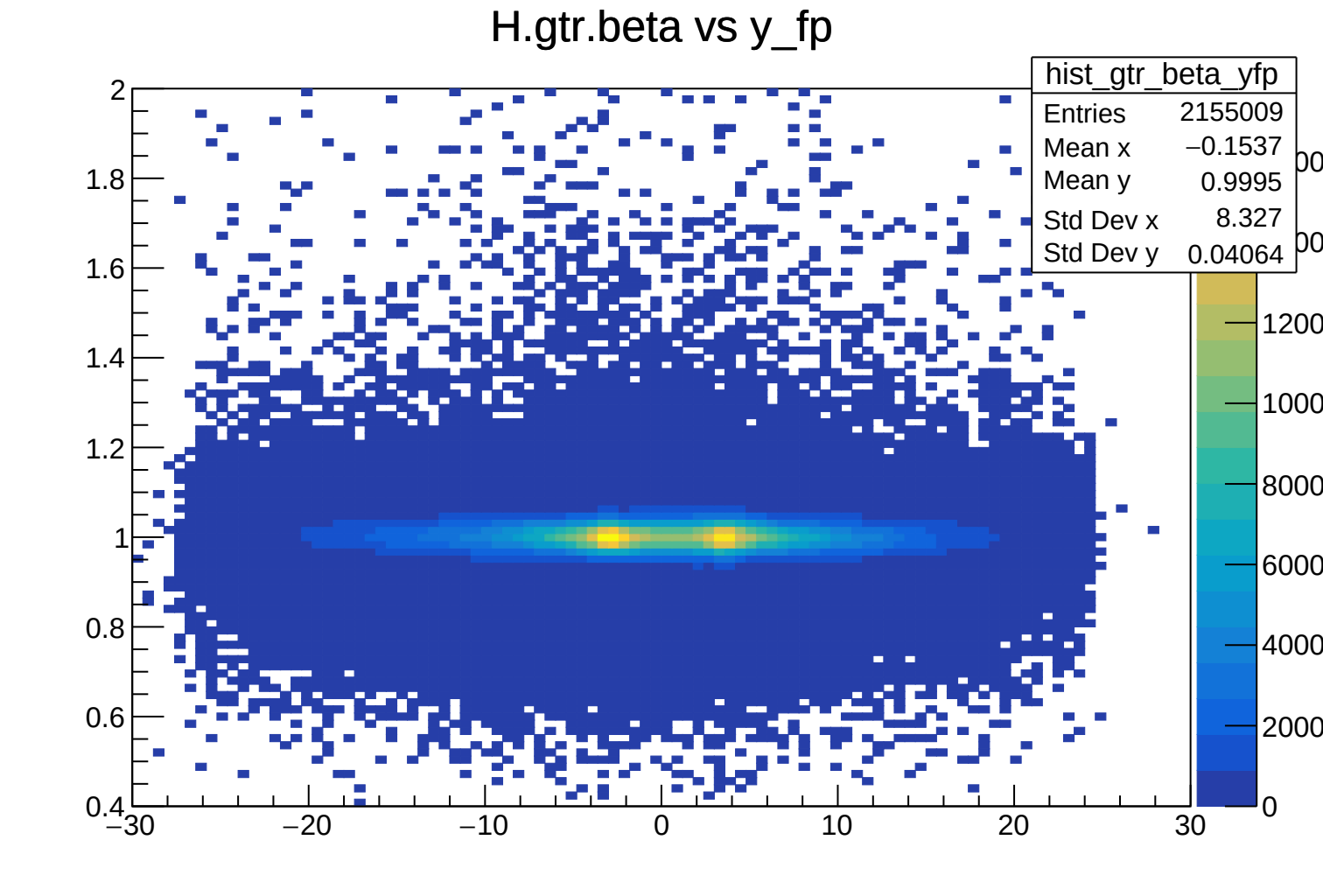

etottracknorm
hist_etottracknorm
Entries 2155009
Mean 0.6747
Std Dev 0.3752
x = 0.7
10^6
10^5
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8

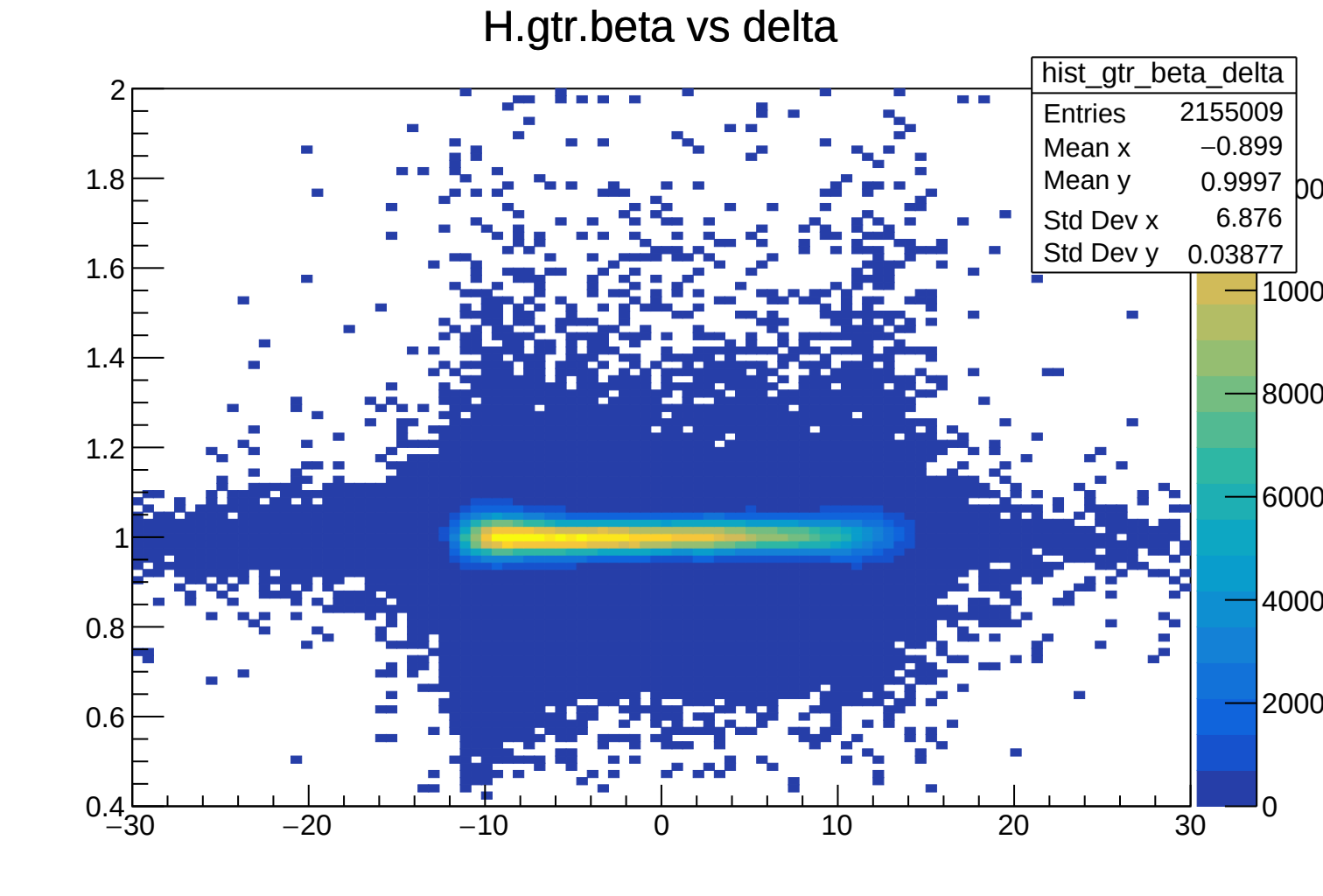

npeSum
x = 0.7
hist_npeSum
Entries 2155009
Mean 8.584
Std Dev 5.785
10^5
10^4
10^3
10^2
10
0
10
20
30
40
50
60
70

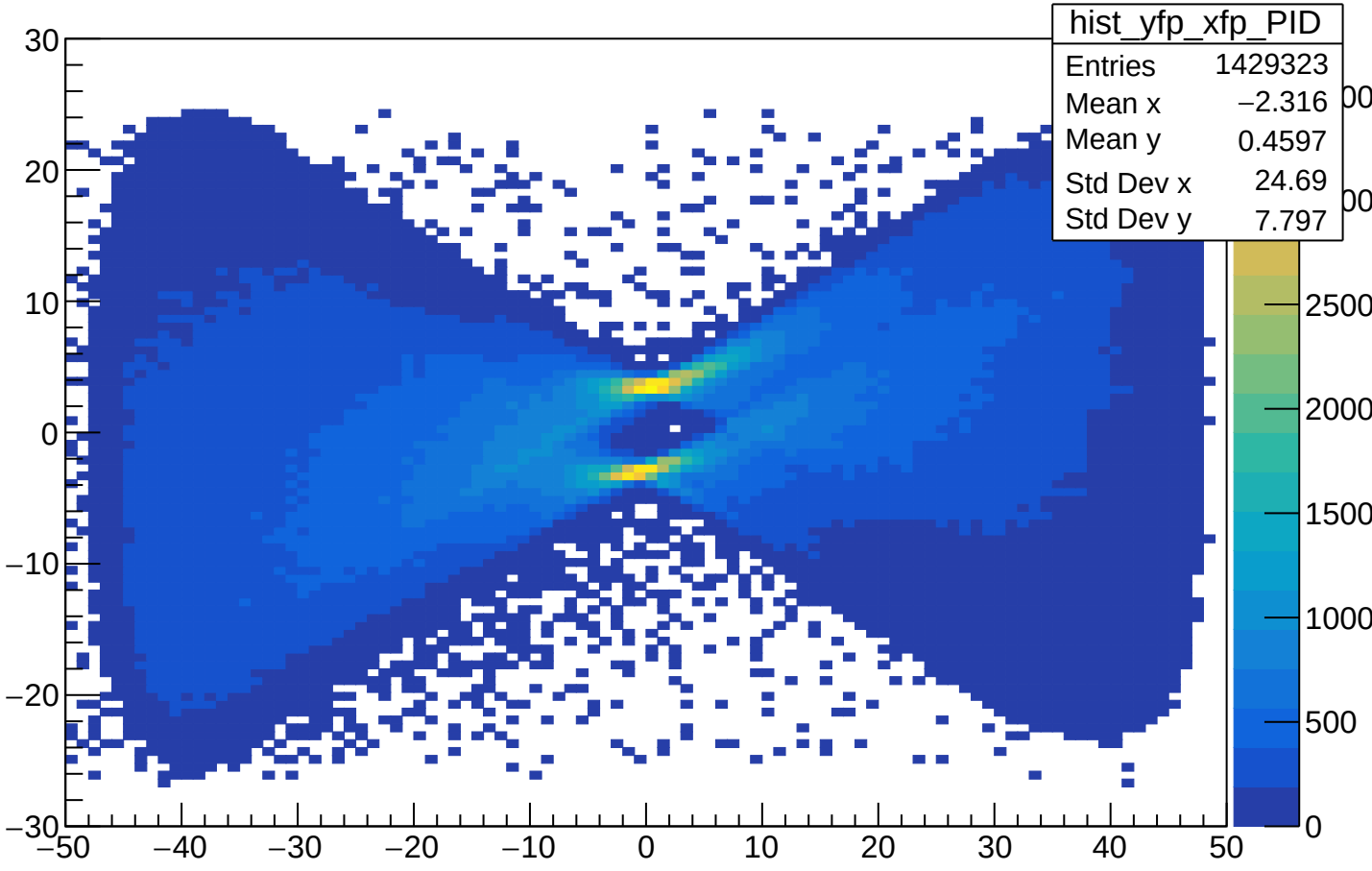

delta
hist_delta
Entries 2155009
Mean −0.9157
Std Dev 6.885
x = -8
x = 8
10^5
10^4
10^3
10^2
10
−30
−20
−10
0
10
20
30

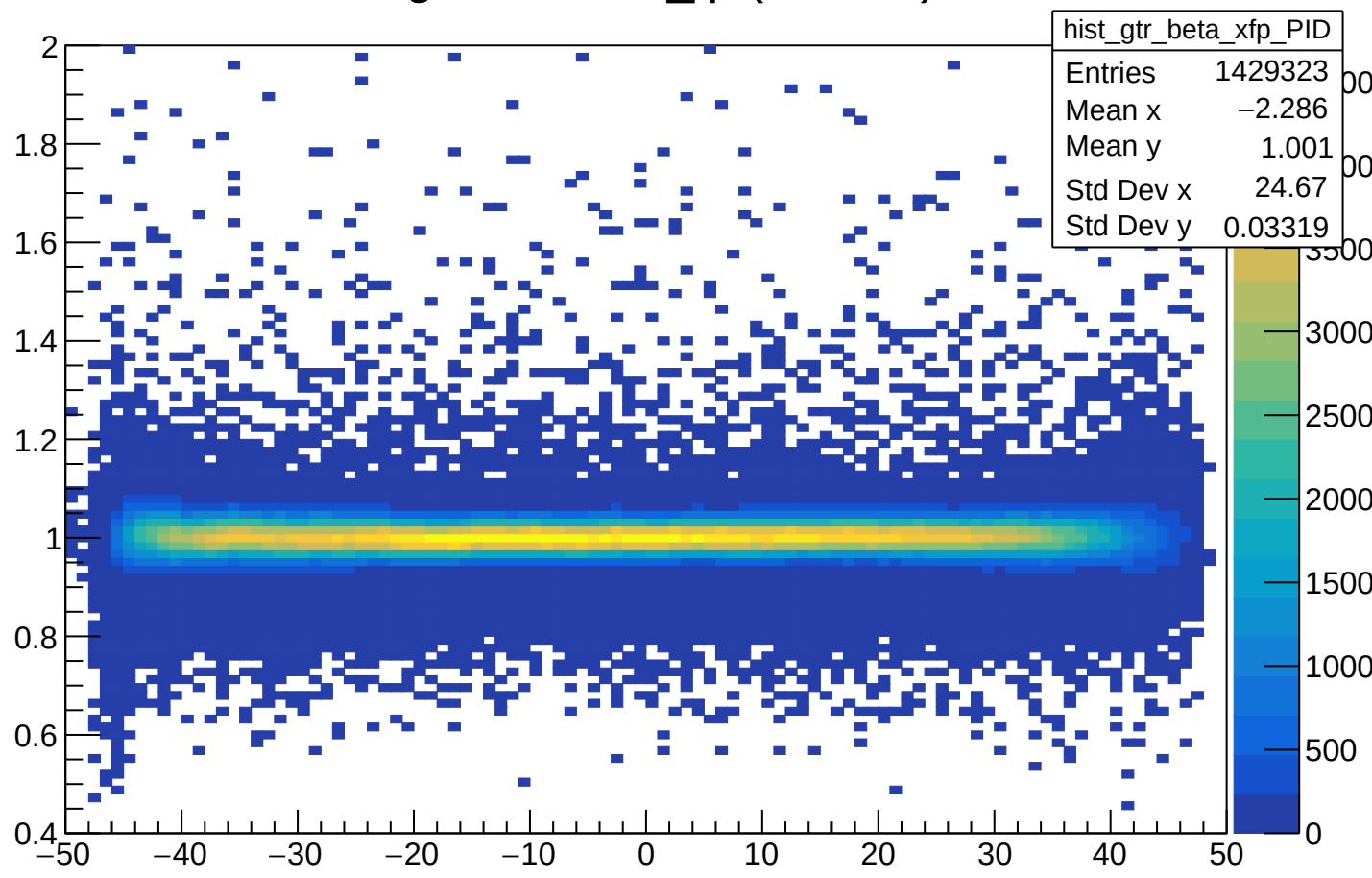

focal plane
hist_yfp_xfp
Entries 2155009
Mean x −4.856
Mean y −0.1685
Std Dev x 24.97
Std Dev y 8.374
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
3000
2500
2000
1500
1000
500
0

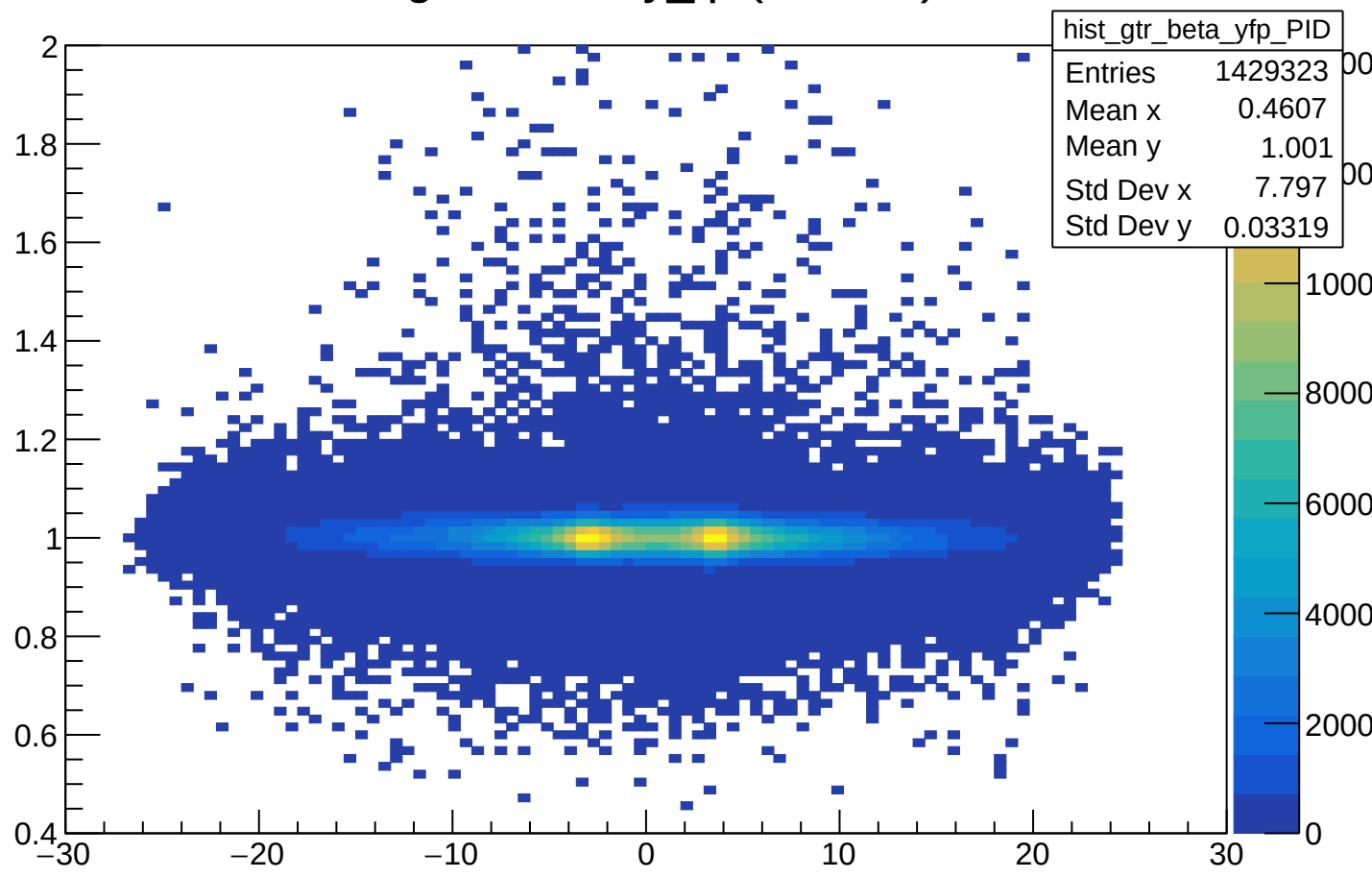

H.gtr.beta vs x_fp
hist_gtr_beta_xfp
Entries 2155009
Mean x −4.707
Mean y 0.9995
Std Dev x 24.92
Std Dev y 0.04035
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
4000
3000
2000
1000
0

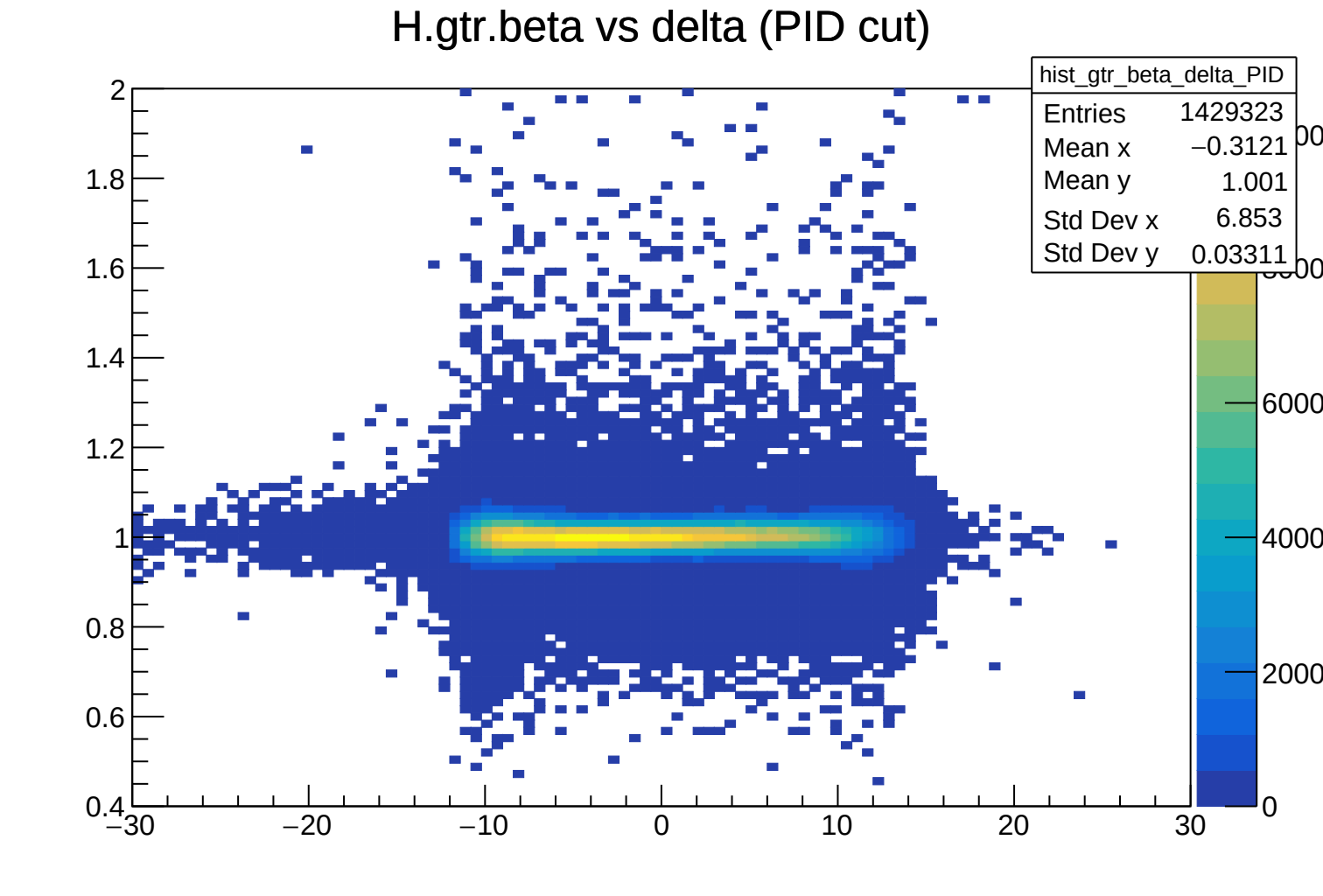

H.gtr.beta vs y_fp
hist_gtr_beta_yfp
Entries 2155009
Mean x −0.1537
Mean y 0.9995
Std Dev x 8.327
Std Dev y 0.04064
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1200
1000
8000
6000
4000
2000
0

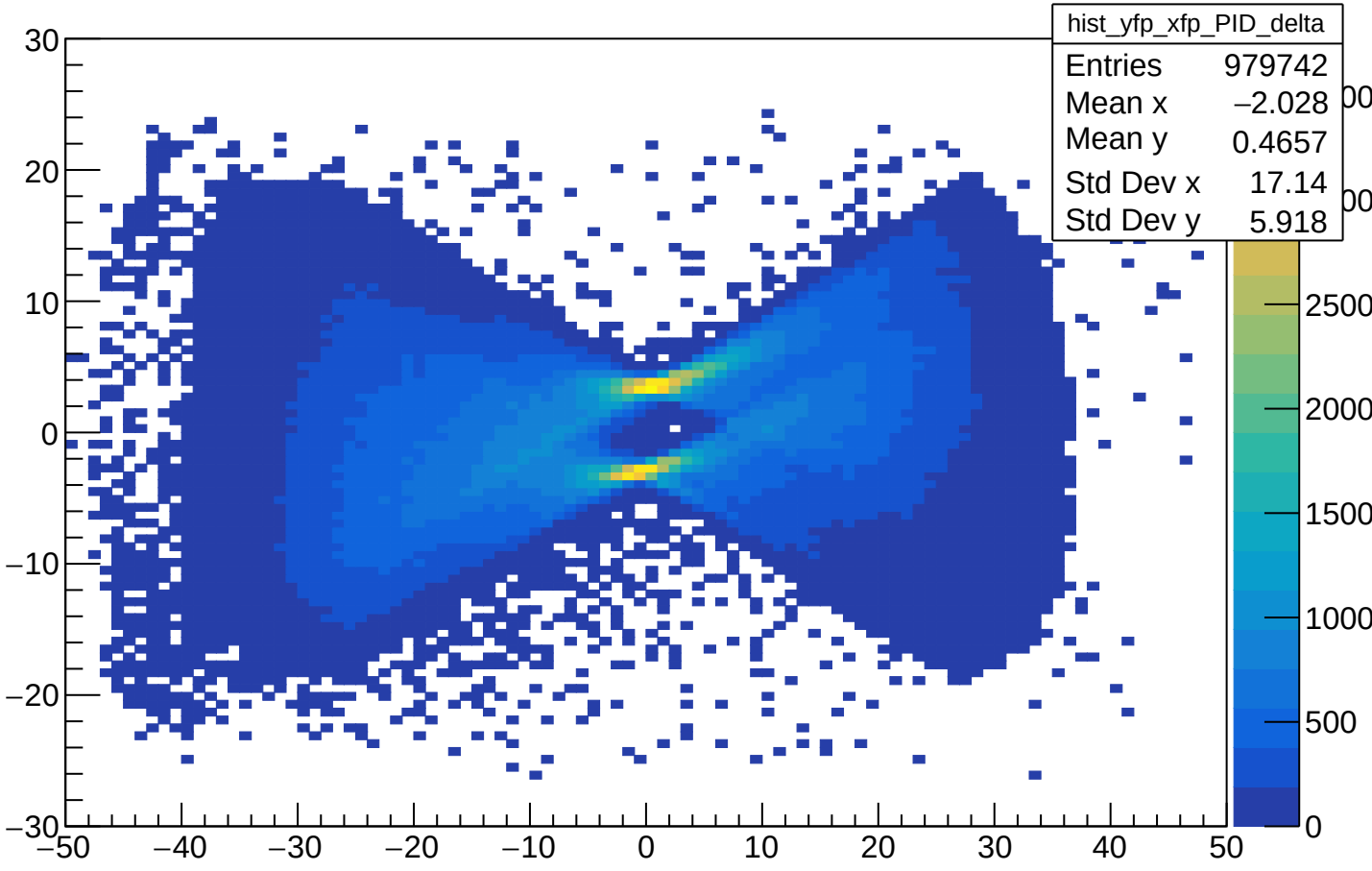

H.gtr.beta vs delta
hist_gtr_beta_delta
Entries 2155009
Mean x −0.899
Mean y 0.9997
Std Dev x 6.876
Std Dev y 0.03877
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1000
8000
6000
4000
2000
0

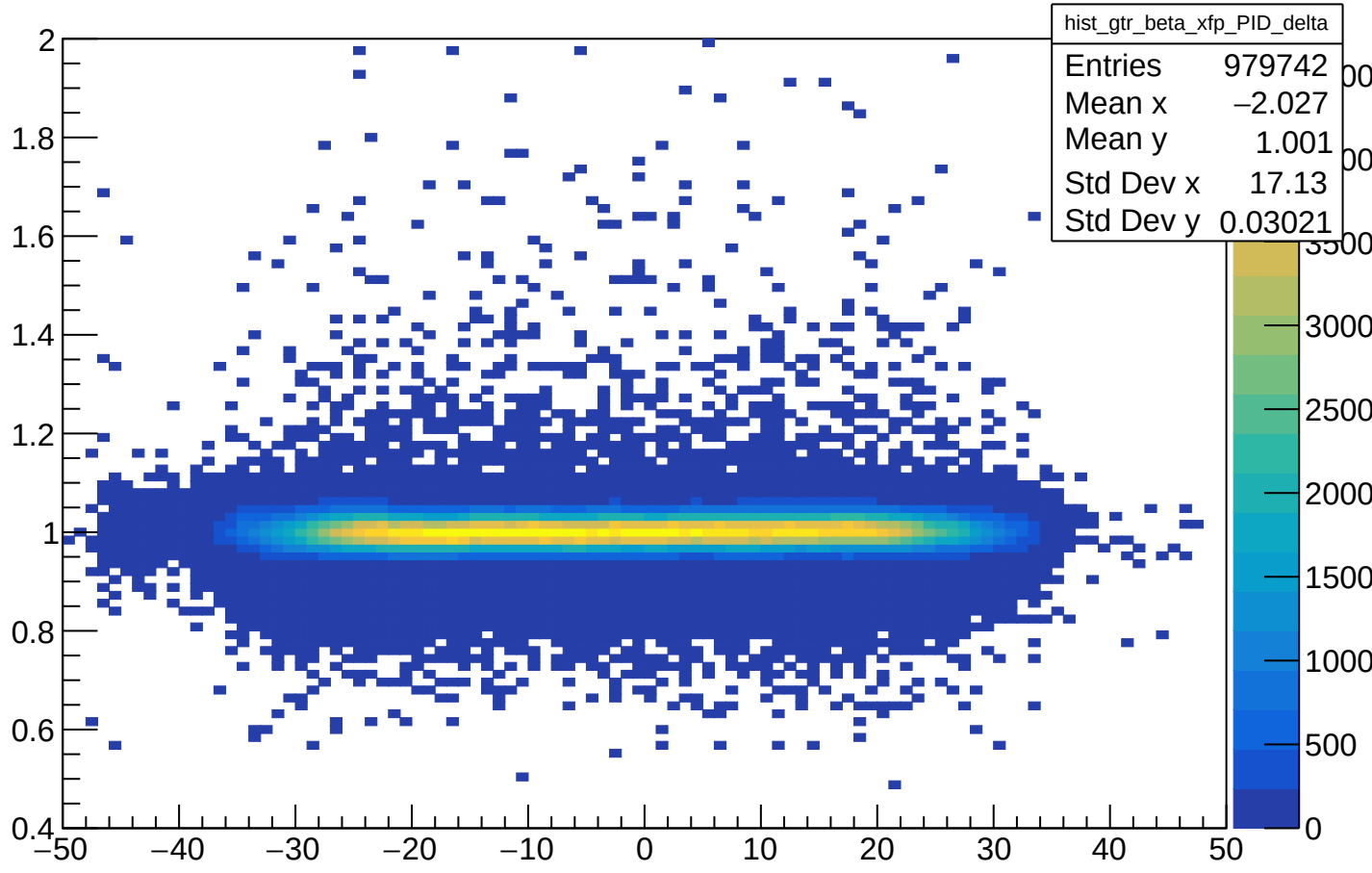

focal plane (PID cut)
hist_yfp_xfp_PID
Entries 1429323
Mean x −2.316
Mean y 0.4597
Std Dev x 24.69
Std Dev y 7.797
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
2500
2000
1500
1000
500
0

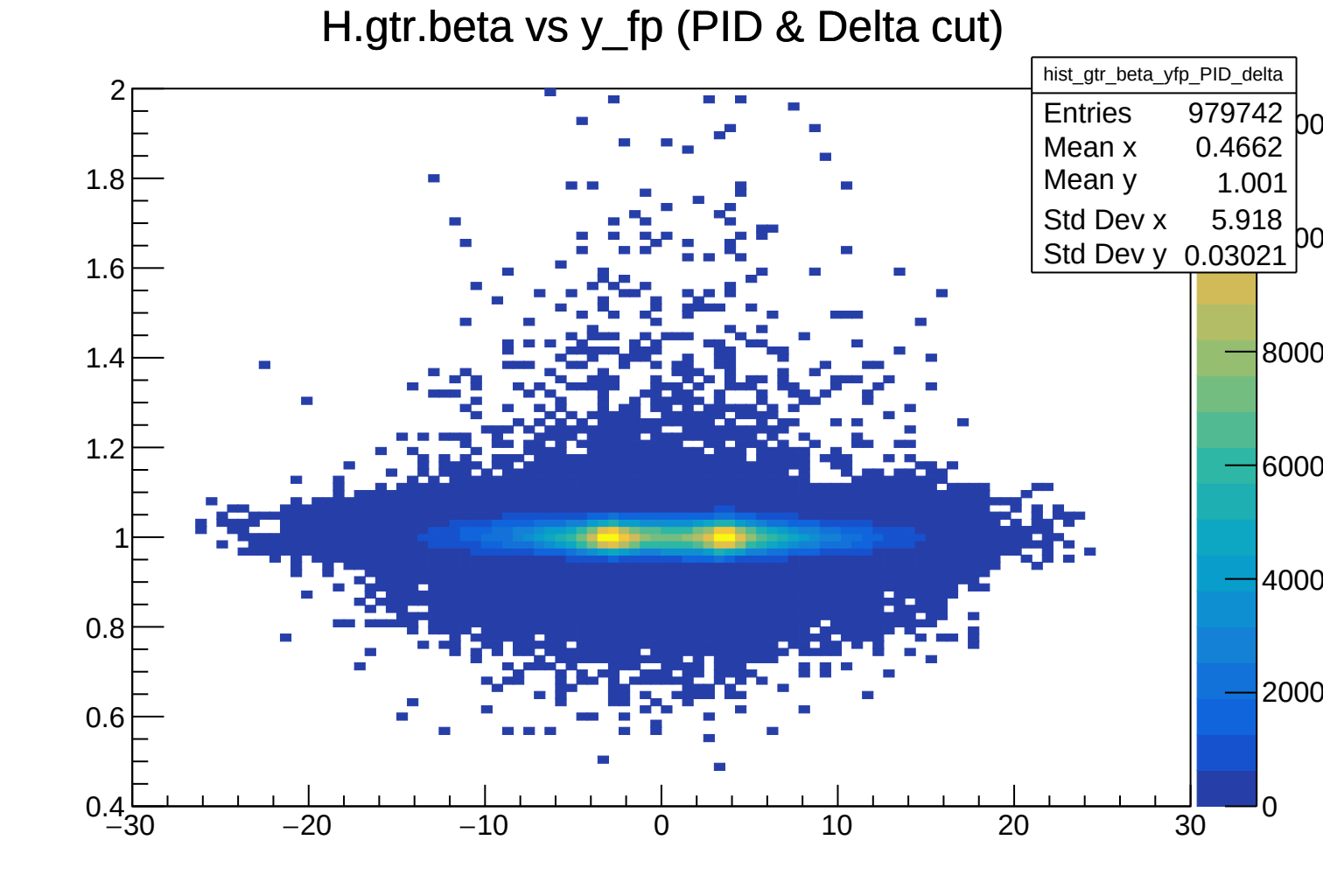

H.gtr.beta vs x_fp (PID cut)
hist_gtr_beta_xfp_PID
Entries 1429323
Mean x −2.286
Mean y 1.001
Std Dev x 24.67
Std Dev y 0.03319
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−50
−40
−30
−20
−10
0
10
20
30
40
50
3500
3000
2500
2000
1500
1000
500
0

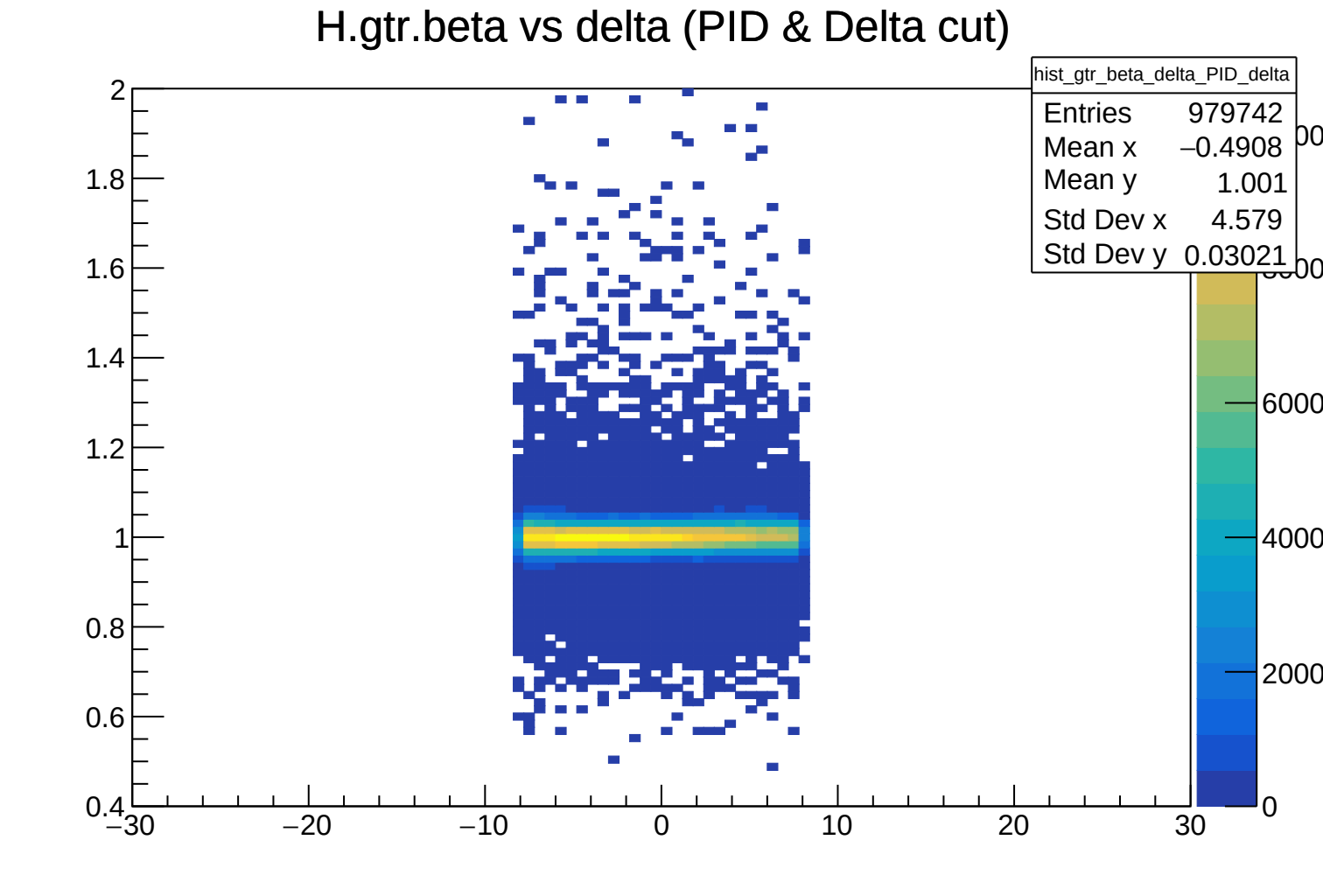

H.gtr.beta vs y_fp (PID cut)
hist_gtr_beta_yfp_PID
Entries 1429323
Mean x 0.4607
Mean y 1.001
Std Dev x 7.797
Std Dev y 0.03319
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
1000
8000
6000
4000
2000
0


H.gtr.beta vs delta (PID cut)
hist_gtr_beta_delta_PID
Entries 1429323
Mean x −0.3121
Mean y 1.001
Std Dev x 6.853
Std Dev y 0.03311
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
6000
4000
2000
0


focal plane (PID & Delta cut)
hist_yfp_xfp_PID_delta
Entries 979742
Mean x −2.028
Mean y 0.4657
Std Dev x 17.14
Std Dev y 5.918
30
20
10
0
−10
−20
−30
−50
−40
−30
−20
−10
0
10
20
30
40
50
2500
2000
1500
1000
500
0


H.gtr.beta vs x_fp (PID & Delta cut)
hist_gtr_beta_xfp_PID_delta
Entries 979742
Mean x −2.027
Mean y 1.001
Std Dev x 17.13
Std Dev y 0.03021
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
3500
3000
2500
2000
1500
1000
500
0


H.gtr.beta vs y_fp (PID & Delta cut)
hist_gtr_beta_yfp_PID_delta
Entries 979742
Mean x 0.4662
Mean y 1.001
Std Dev x 5.918
Std Dev y 0.03021
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
8000
6000
4000
2000
0


H.gtr.beta vs delta (PID & Delta cut)
hist_gtr_beta_delta_PID_delta
Entries 979742
Mean x −0.4908
Mean y 1.001
Std Dev x 4.579
Std Dev y 0.03021
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
−30
−20
−10
0
10
20
30
6000
4000
2000
0