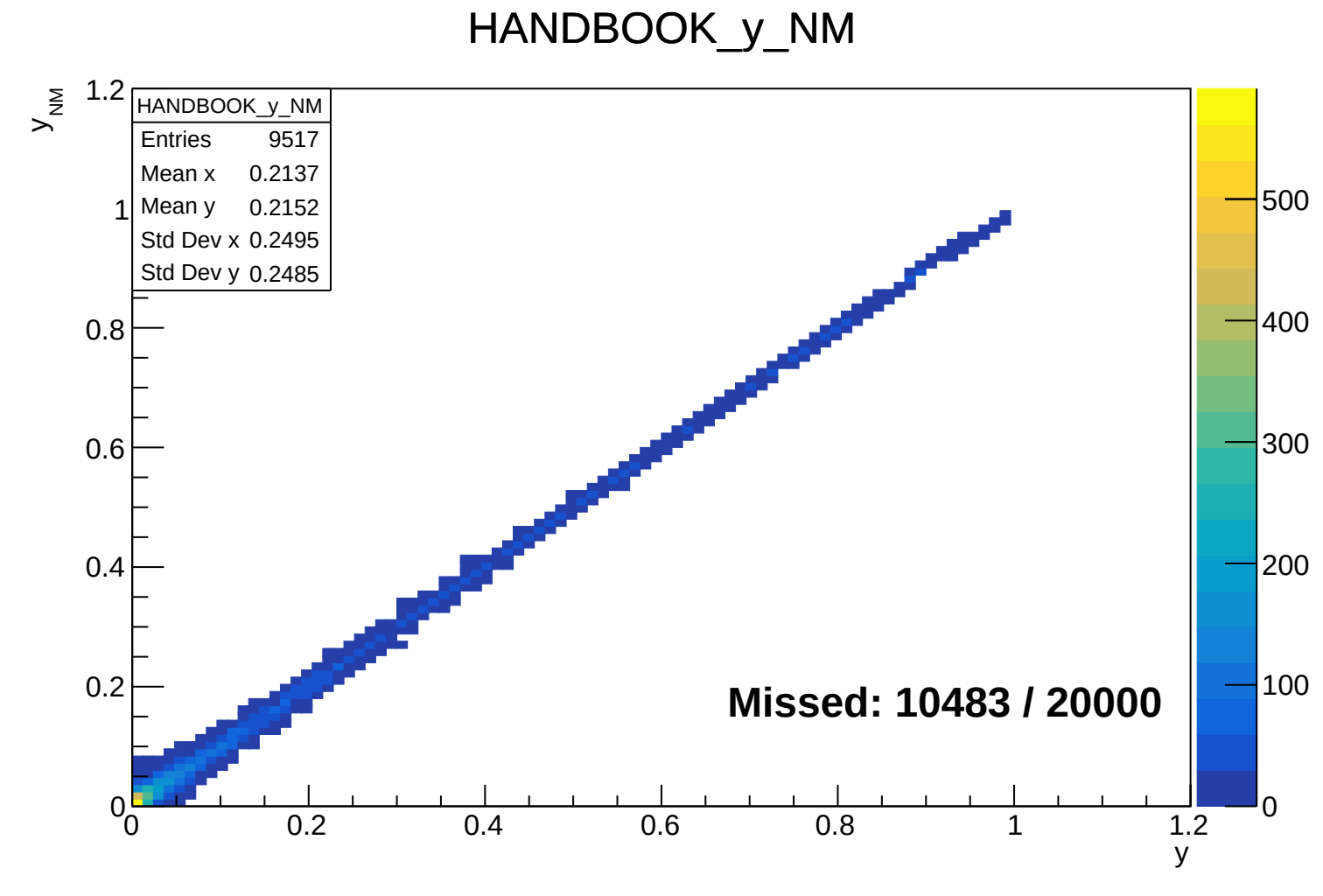
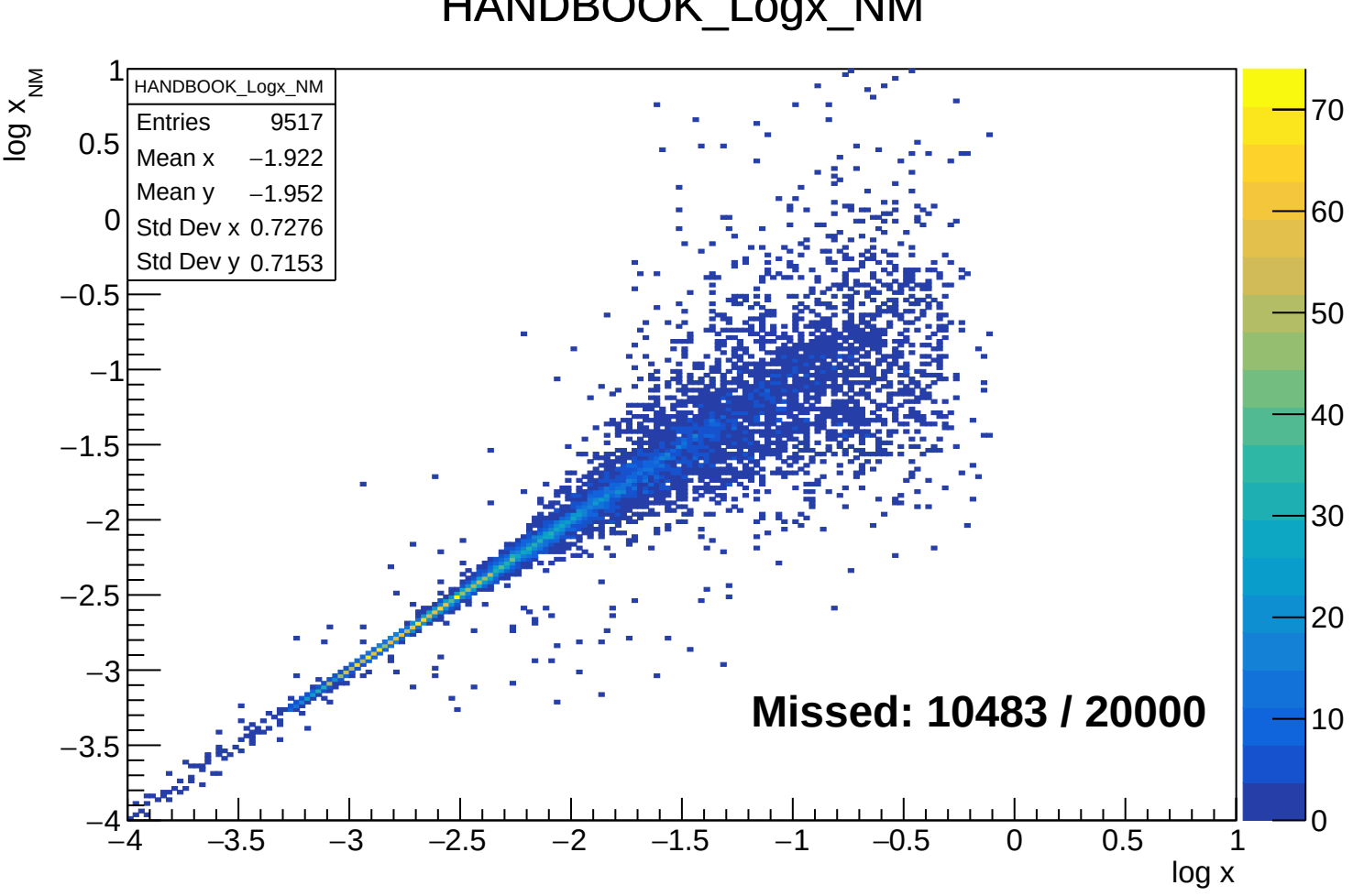
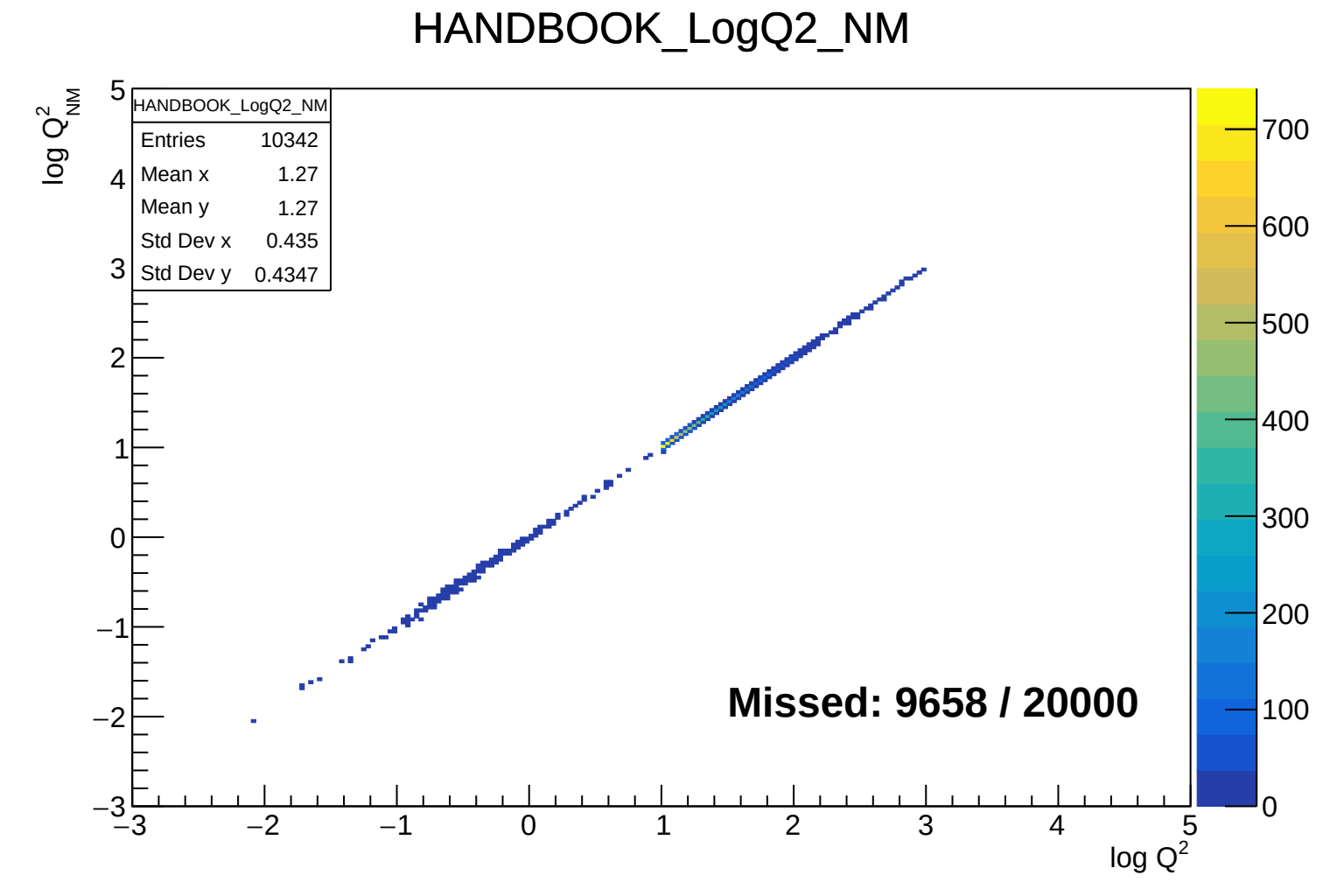
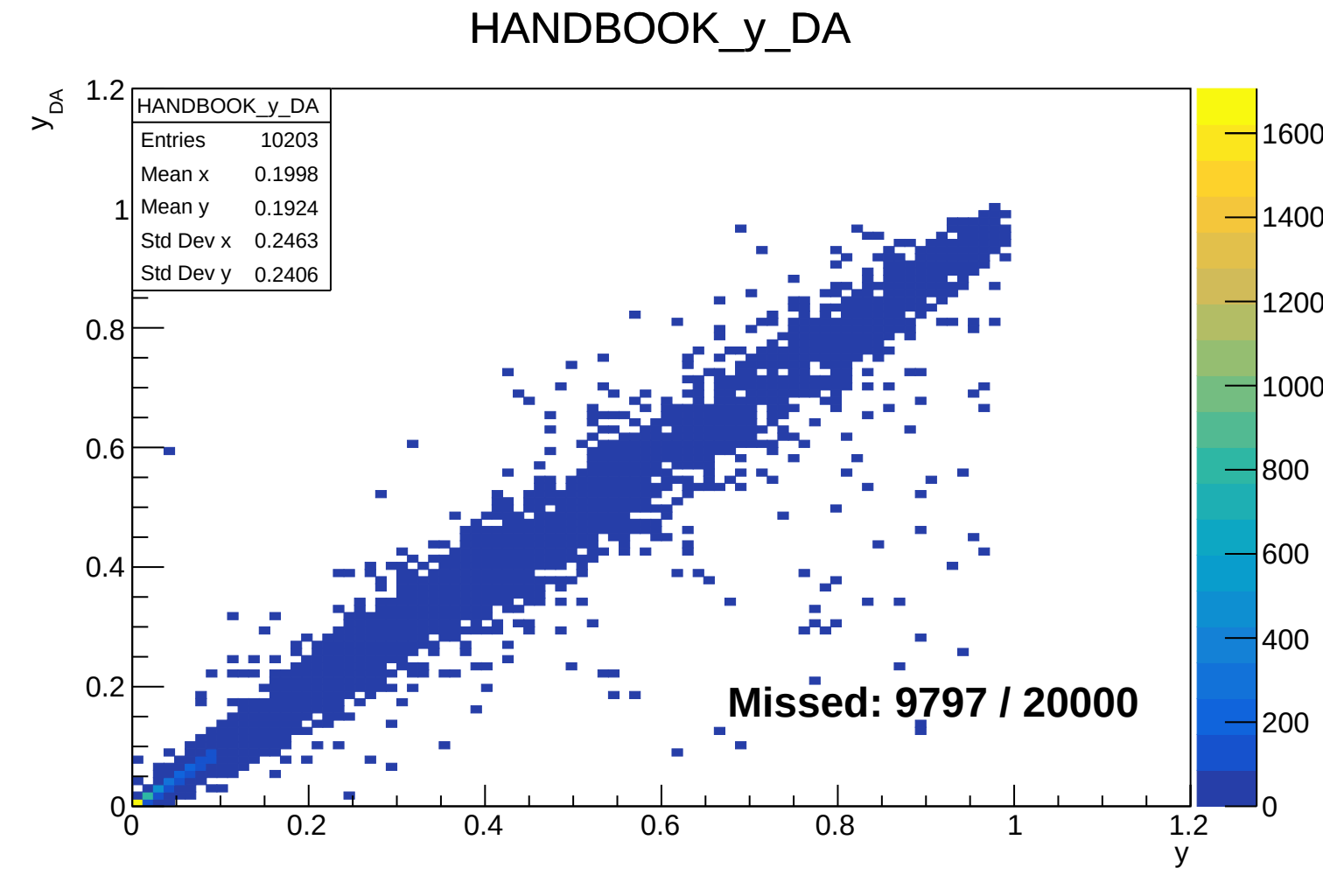
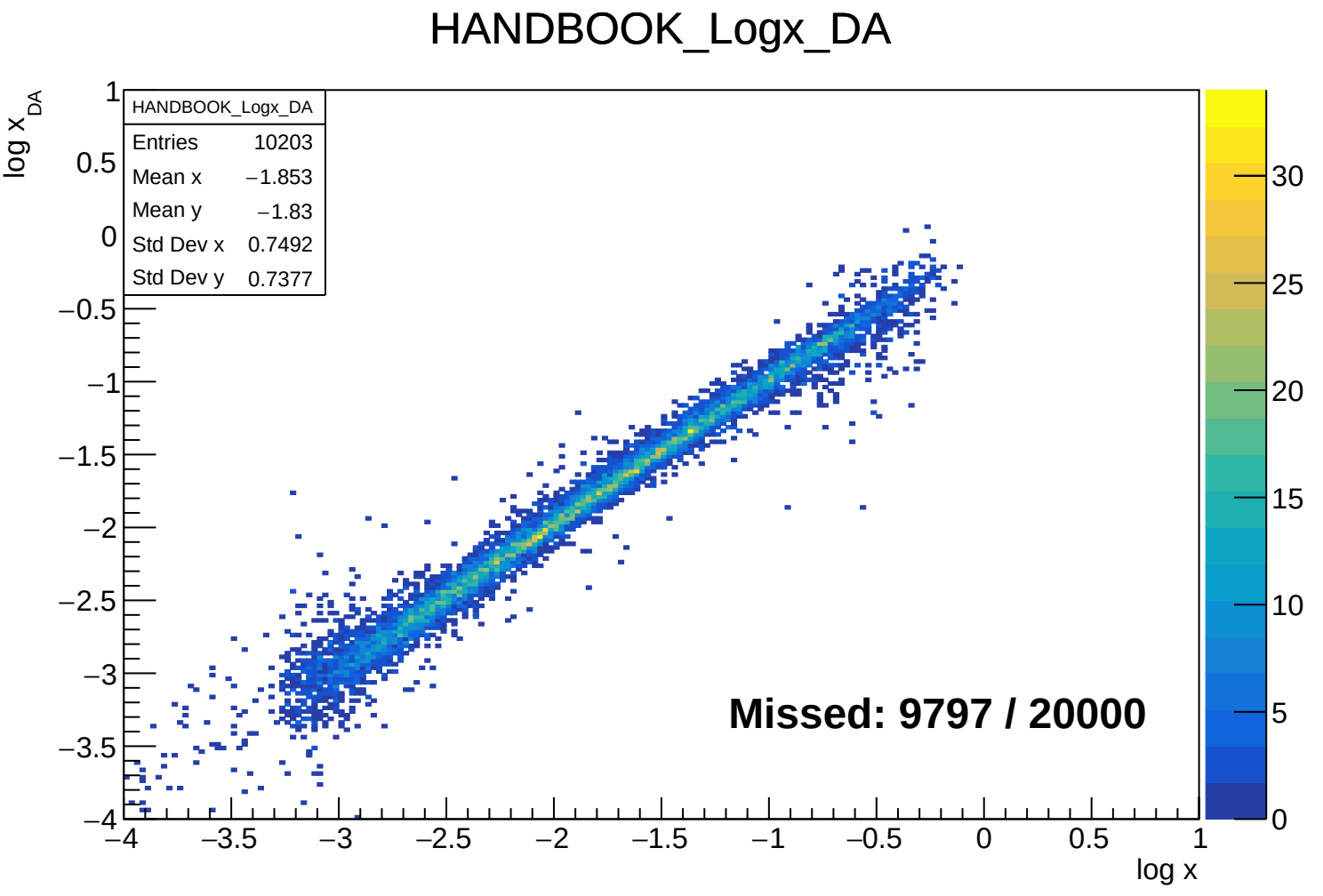
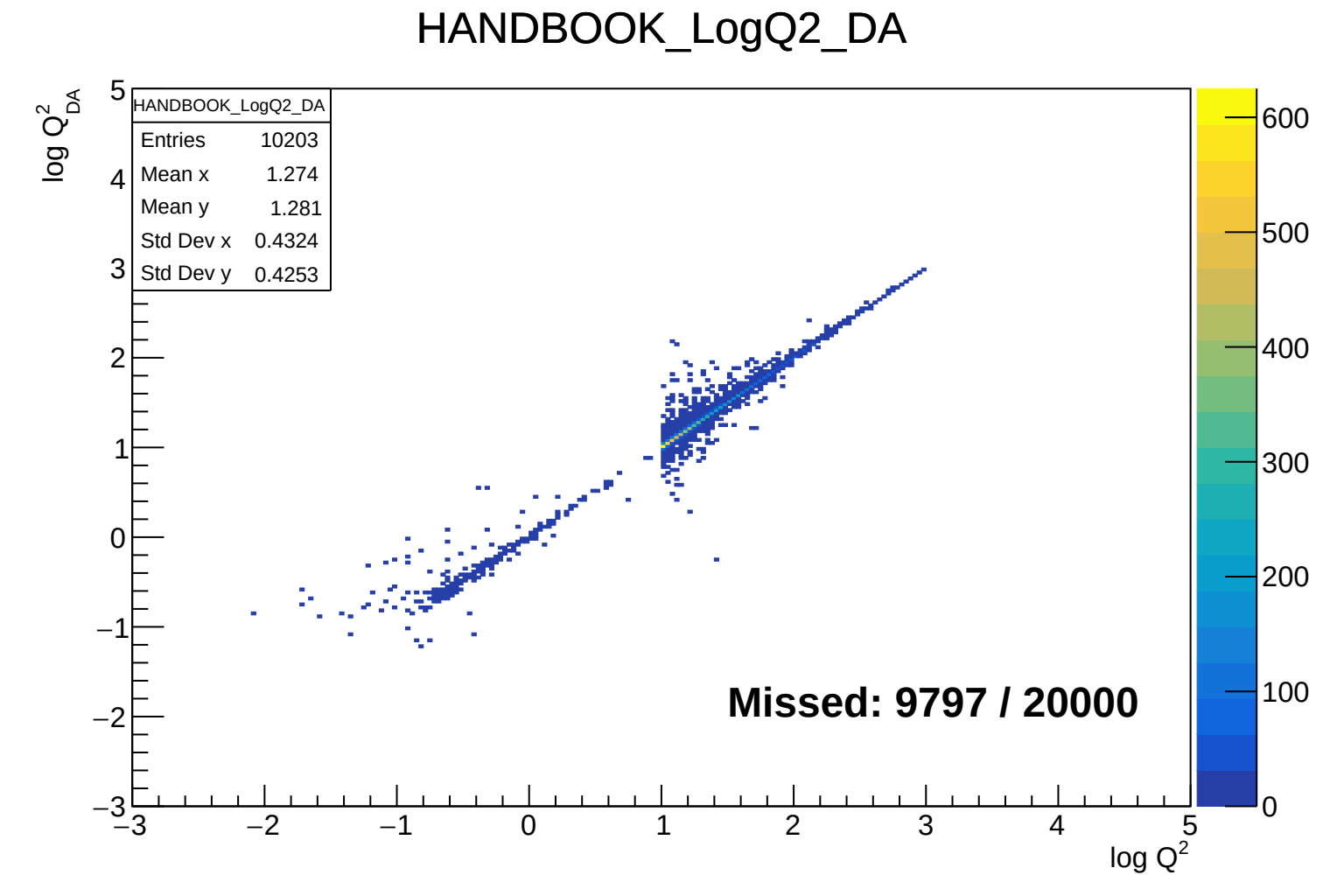

HANDBOOK_y_NM
HANDBOOK_y_NM
Entries 9517
Mean x 0.2137
Mean y 0.2152
Std Dev x 0.2495
Std Dev y 0.2485
Missed: 10483 / 20000
y_NM
y
0
0.2
0.4
0.6
0.8
1
1.2
100
200
300
400
500

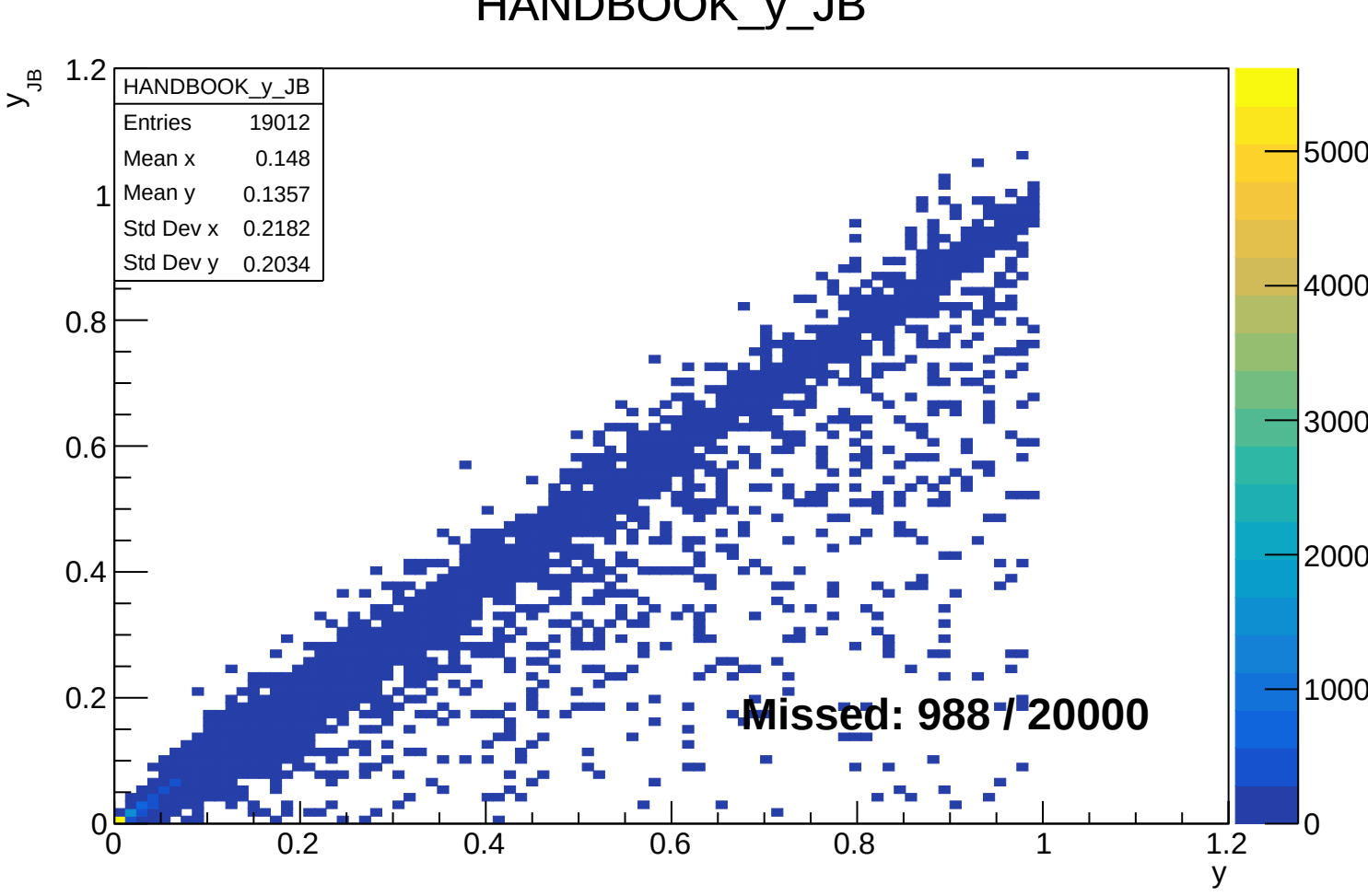

HANDBOOK_Logx_NM
HANDBOOK_Logx_NM
Entries 9517
Mean x −1.922
Mean y −1.952
Std Dev x 0.7276
Std Dev y 0.7153
Missed: 10483 / 20000
log x
log x NM
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
−4
−4
−3.5
−3
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
70
60
50
40
30
20
10
0

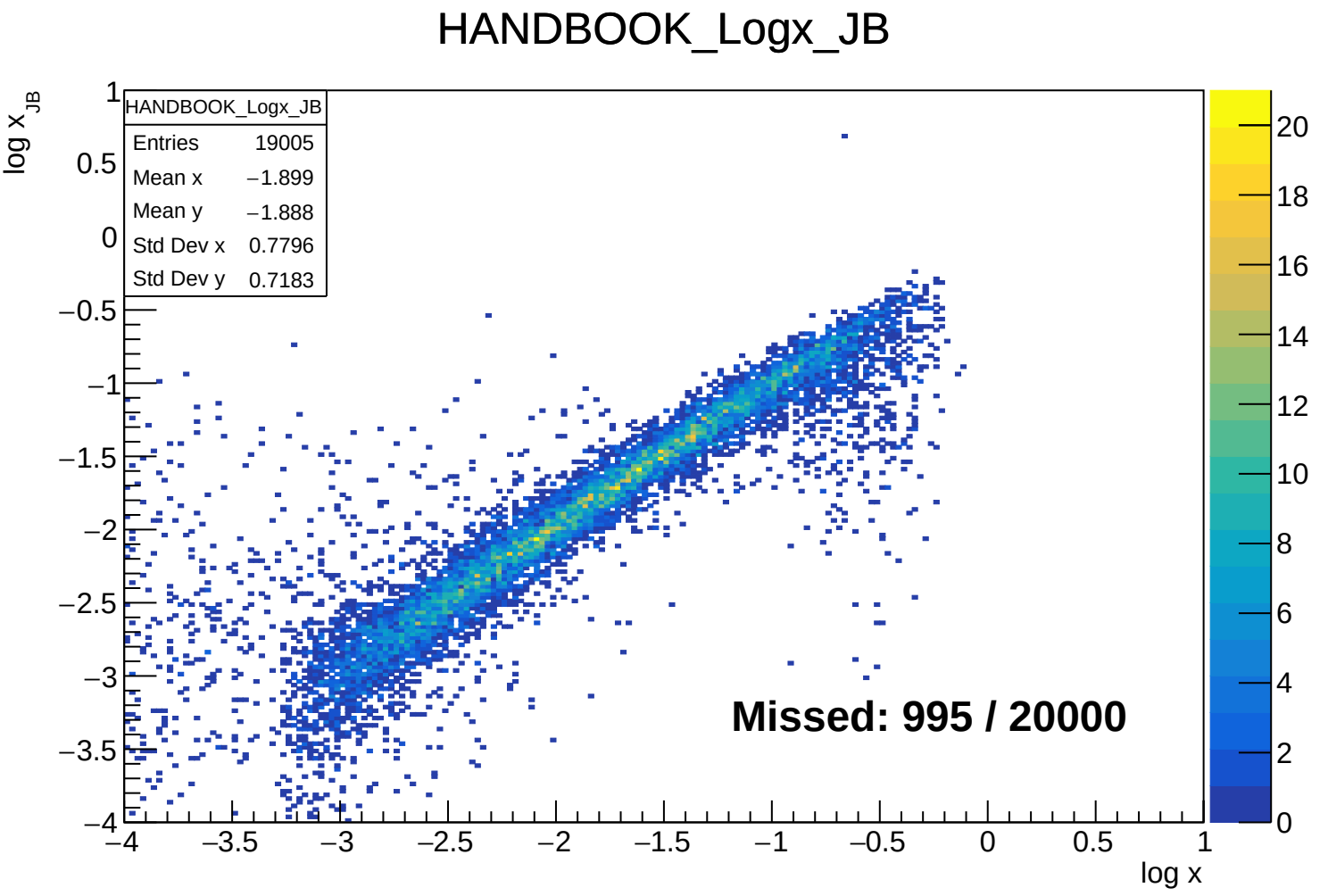

HANDBOOK_LogQ2_NM
HANDBOOK_LogQ2_NM
Entries 10342
Mean x 1.27
Mean y 1.27
Std Dev x 0.435
Std Dev y 0.4347
Missed: 9658 / 20000
log $Q^2_{NM}$
log $Q^2$

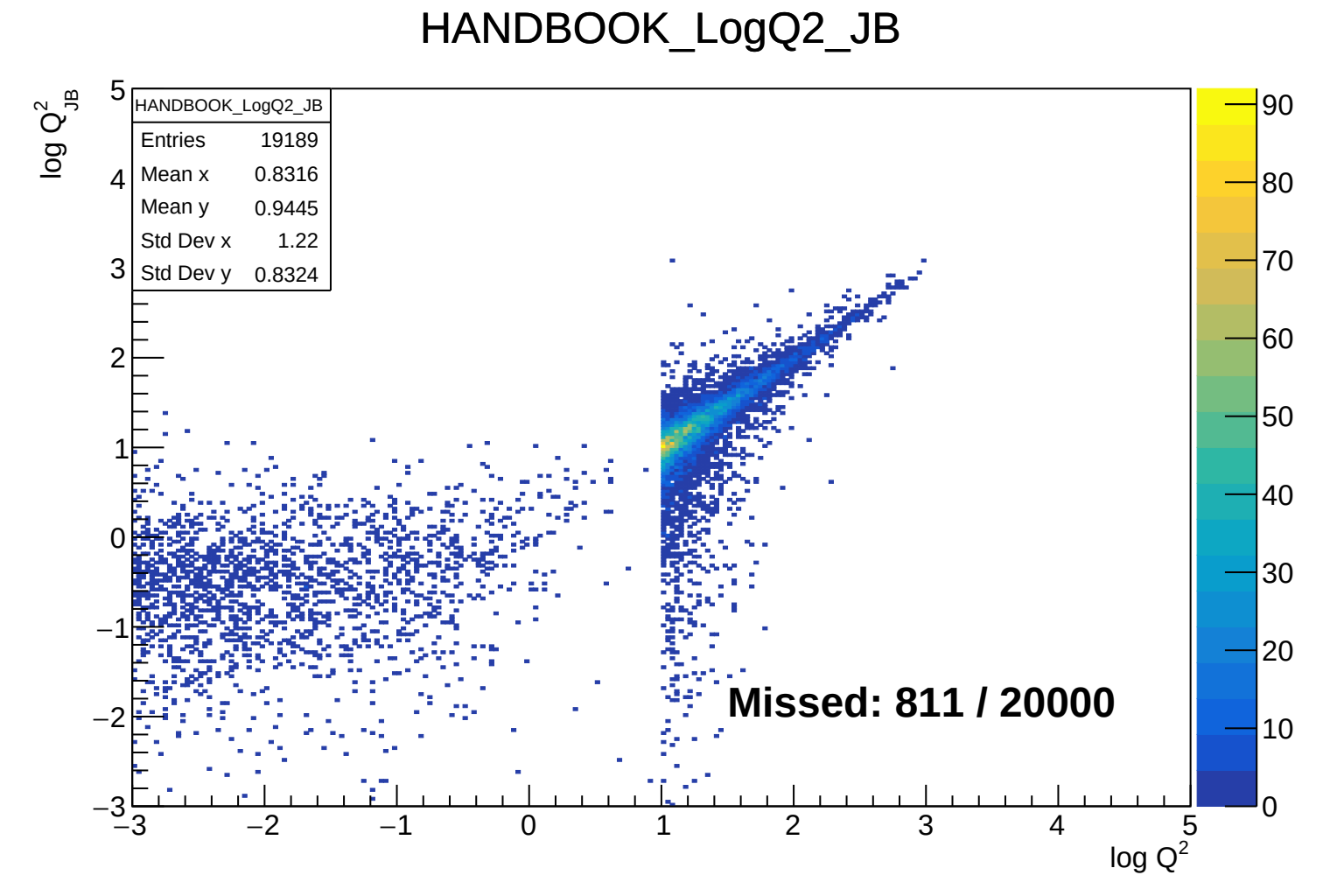

HANDBOOK_y_DA
HANDBOOK_y_DA
Entries 10203
Mean x 0.1998
Mean y 0.1924
Std Dev x 0.2463
Std Dev y 0.2406
Missed: 9797 / 20000
y_DA
y
0
0.2
0.4
0.6
0.8
1
1.2
200
400
600
800
1000
1200
1400
1600

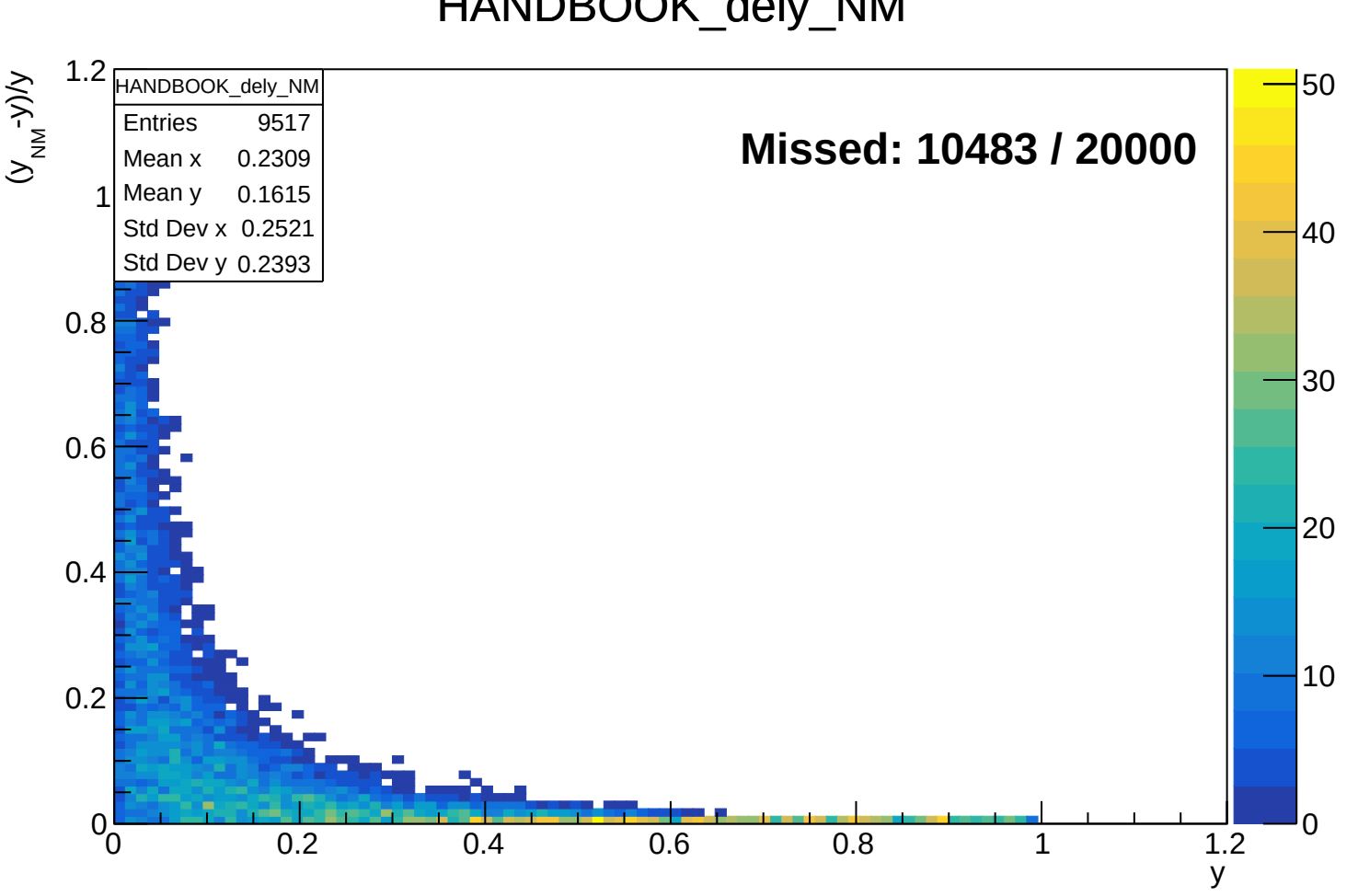

HANDBOOK_Logx_DA
HANDBOOK_Logx_DA
Entries 10203
Mean x −1.853
Mean y −1.83
Std Dev x 0.7492
Std Dev y 0.7377
Missed: 9797 / 20000
log x_DA
log x
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
−4
30
25
20
15
10
5
0

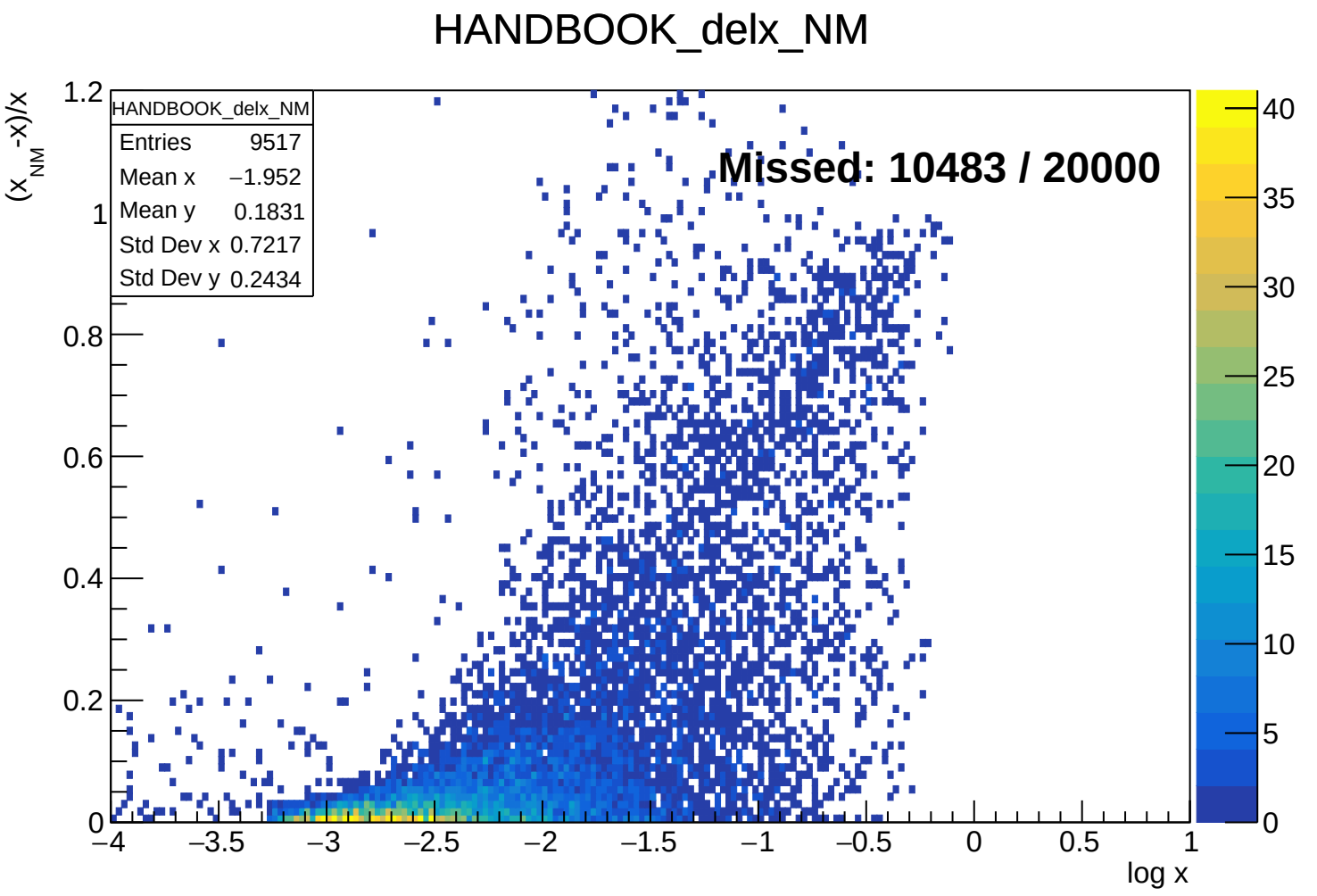

HANDBOOK_LogQ2_DA
HANDBOOK_LogQ2_DA
Entries 10203
Mean x 1.274
Mean y 1.281
Std Dev x 0.4324
Std Dev y 0.4253
Missed: 9797 / 20000
log $Q^2_{DA}$
log $Q^2$

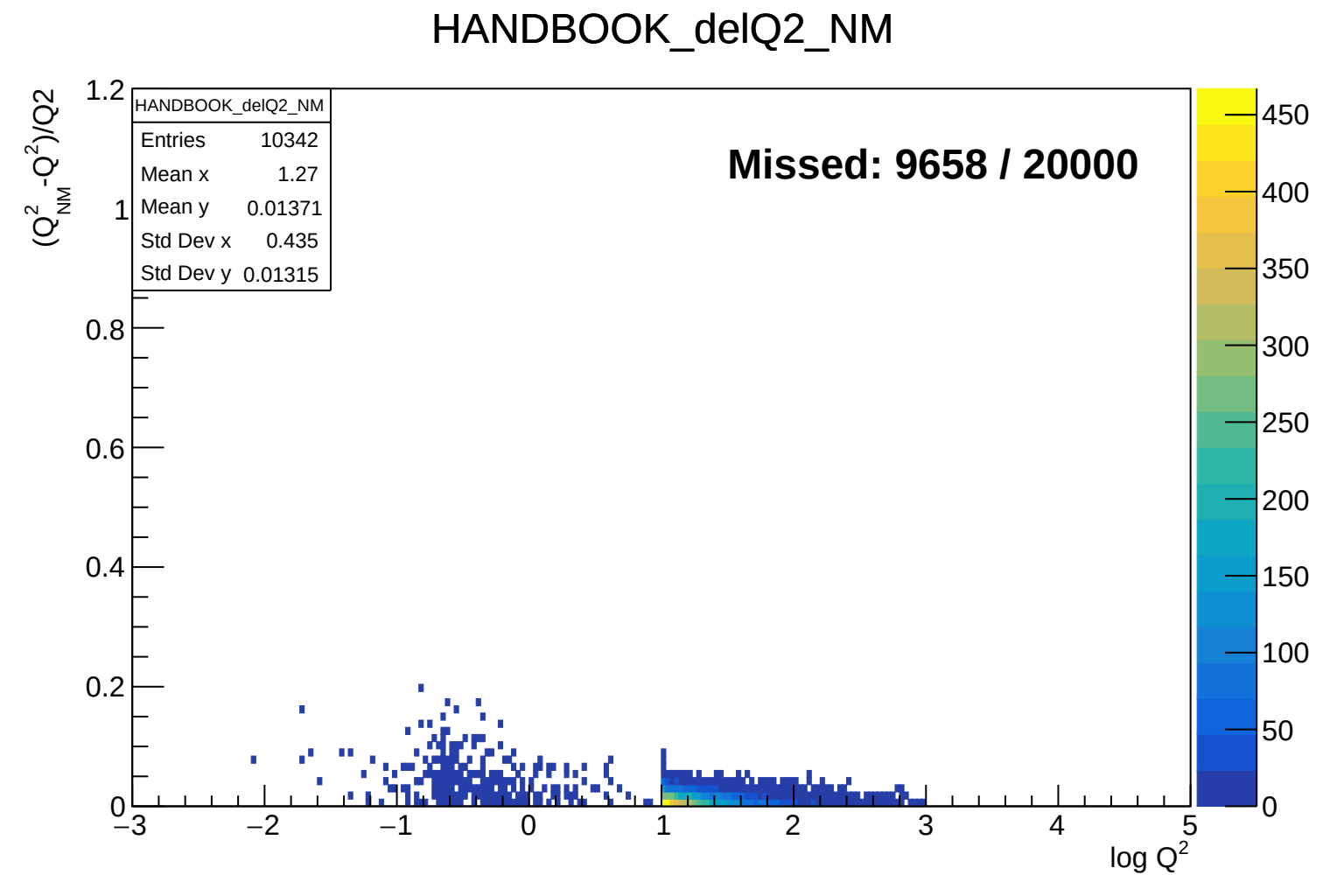

HANDBOOK_y_JB
HANDBOOK_y_JB
Entries 19012
Mean x 0.148
Mean y 0.1357
Std Dev x 0.2182
Std Dev y 0.2034
Missed: 988 / 20000
y_JB
y
0
0.2
0.4
0.6
0.8
1
1.2
1000
2000
3000
4000
5000

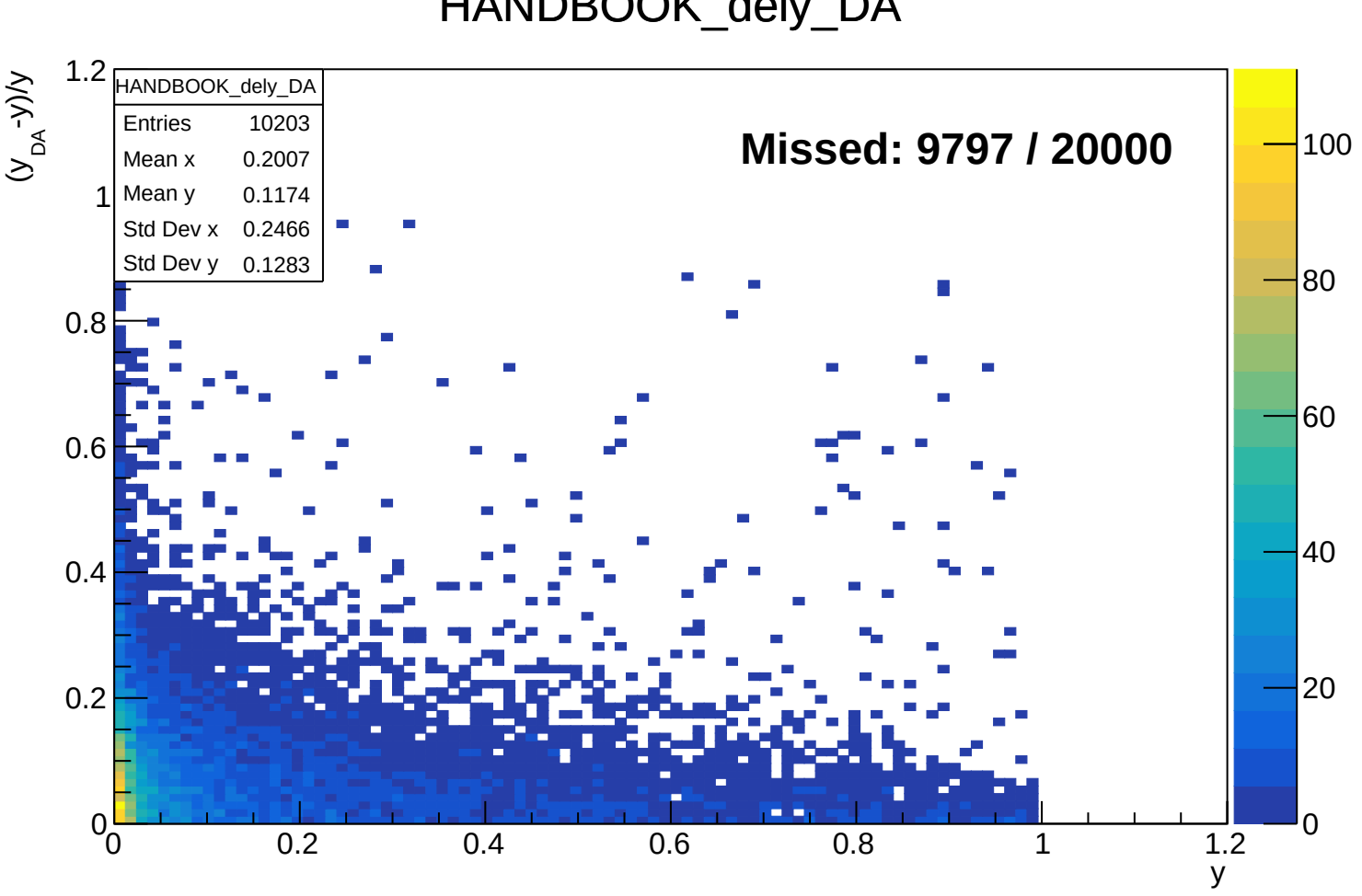

HANDBOOK_Logx_JB
HANDBOOK_Logx_JB
Entries 19005
Mean x −1.899
Mean y −1.888
Std Dev x 0.7796
Std Dev y 0.7183
Missed: 995 / 20000
log x_JB
log x
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
−4
20
18
16
14
12
10
8
6
4
2
0

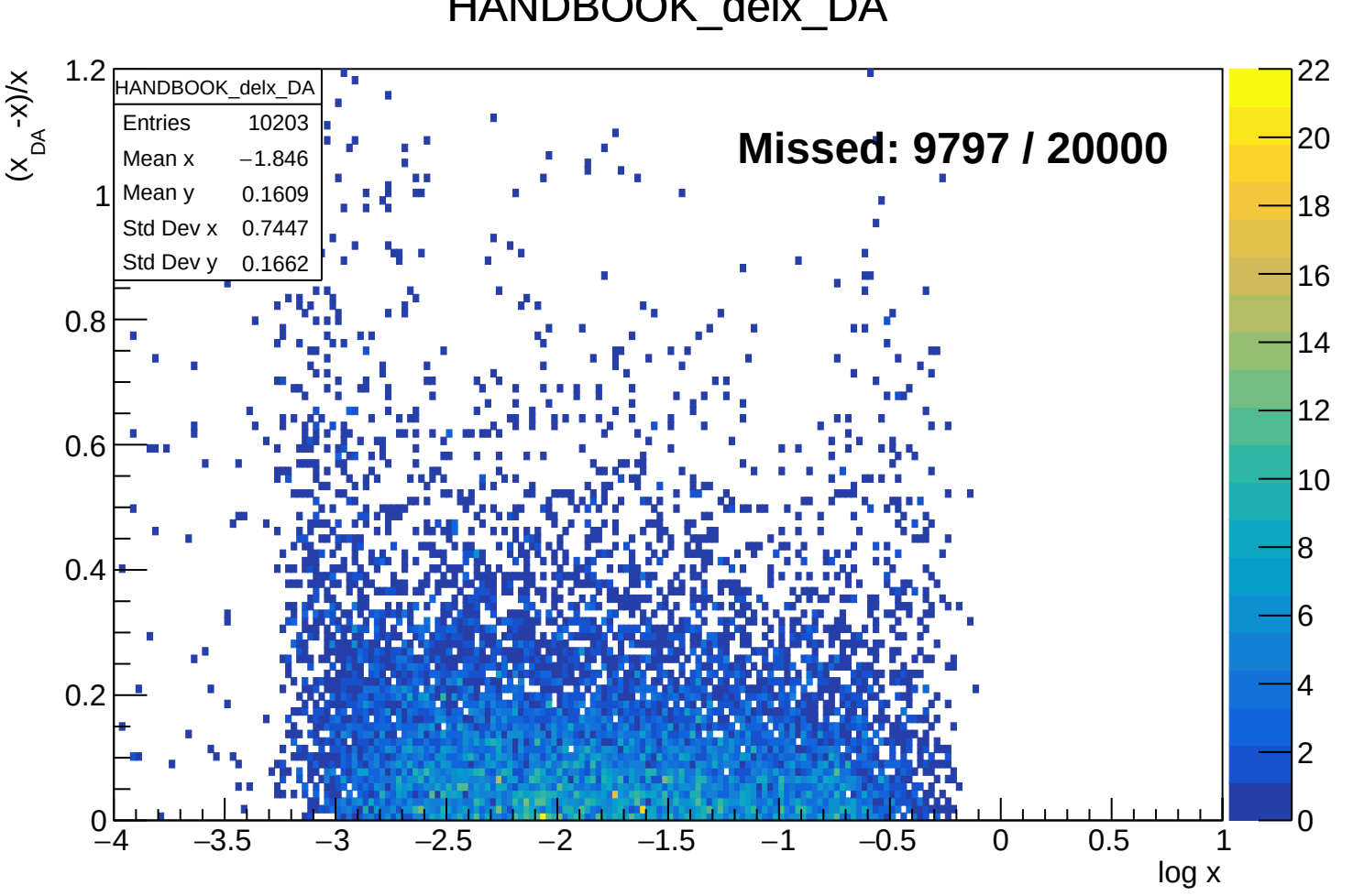

HANDBOOK_LogQ2_JB
HANDBOOK_LogQ2_JB
Entries 19189
Mean x 0.8316
Mean y 0.9445
Std Dev x 1.22
Std Dev y 0.8324
Missed: 811 / 20000
log $Q^2_{JB}$
log $Q^2$

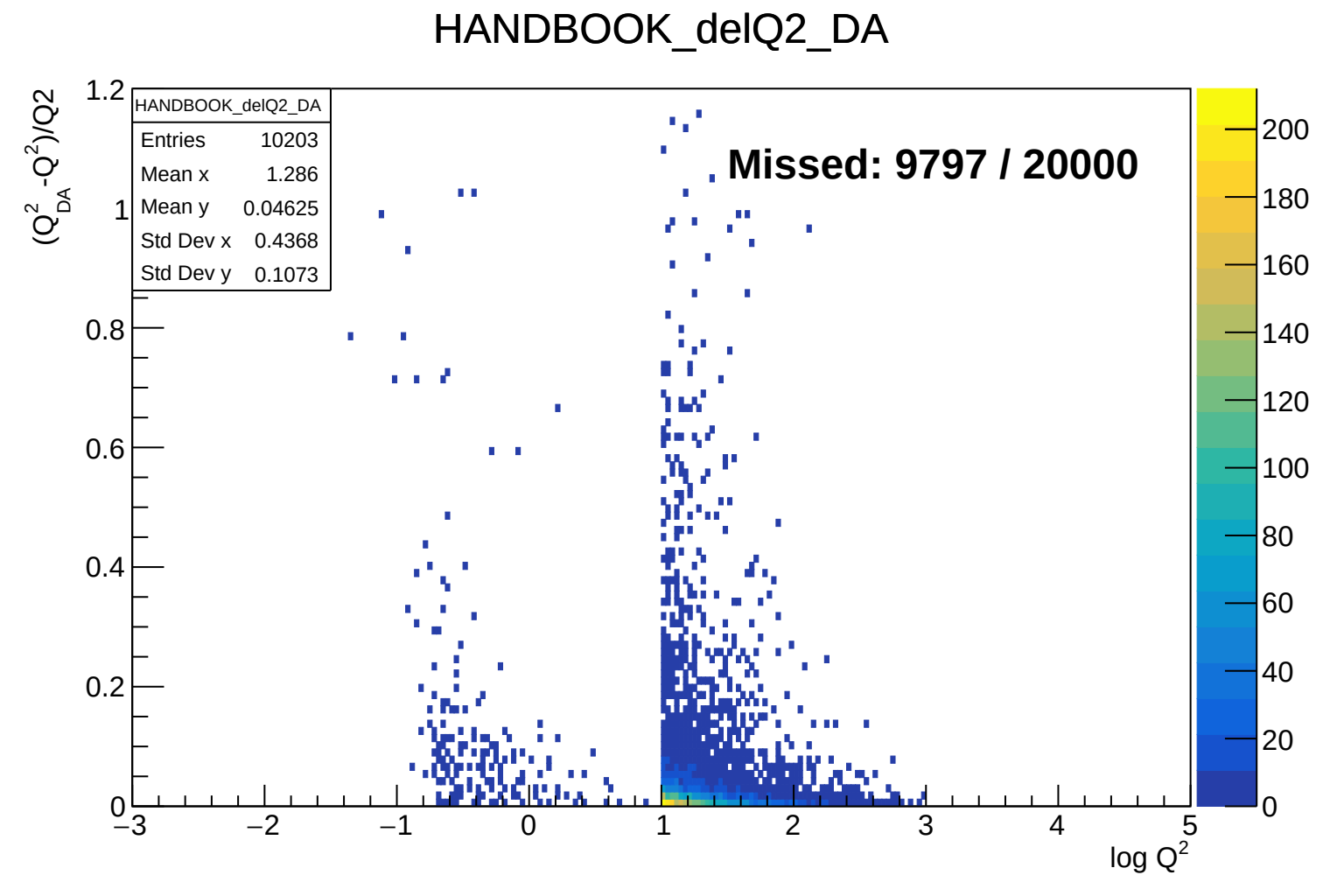

HANDBOOK_dely_NM
HANDBOOK_dely_NM
Entries 9517
Mean x 0.2309
Mean y 0.1615
Std Dev x 0.2521
Std Dev y 0.2393
Missed: 10483 / 20000
(y_NM-y)/y
y
0
0.2
0.4
0.6
0.8
1
1.2
10
20
30
40
50

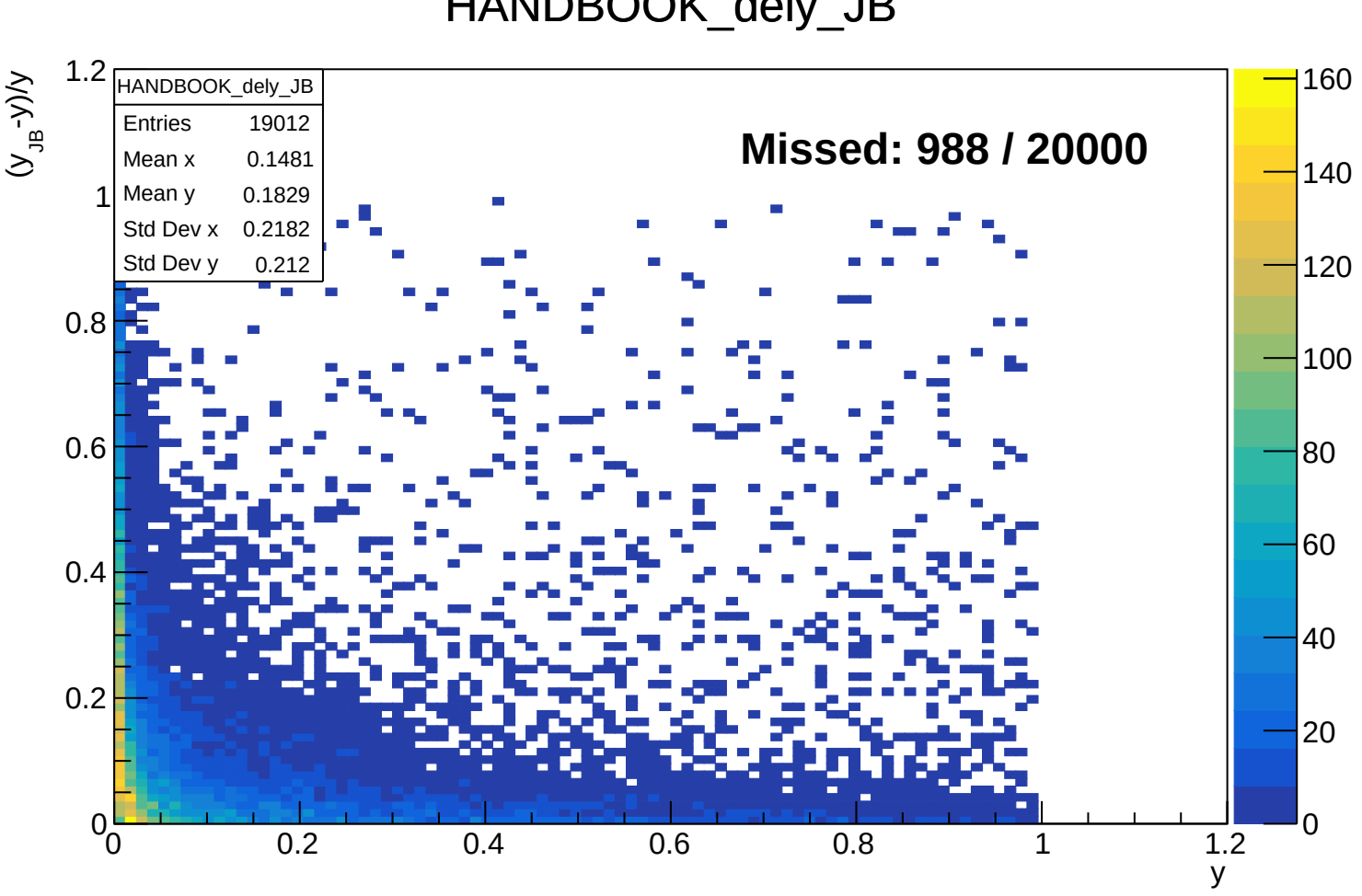

HANDBOOK_delx_NM
HANDBOOK_delx_NM
Entries 9517
Mean x −1.952
Mean y 0.1831
Std Dev x 0.7217
Std Dev y 0.2434
Missed: 10483 / 20000
(x_NM-x)/x
log x
1.2
1
0.8
0.6
0.4
0.2
0
−4
−3.5
−3
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
40
35
30
25
20
15
10
5
0

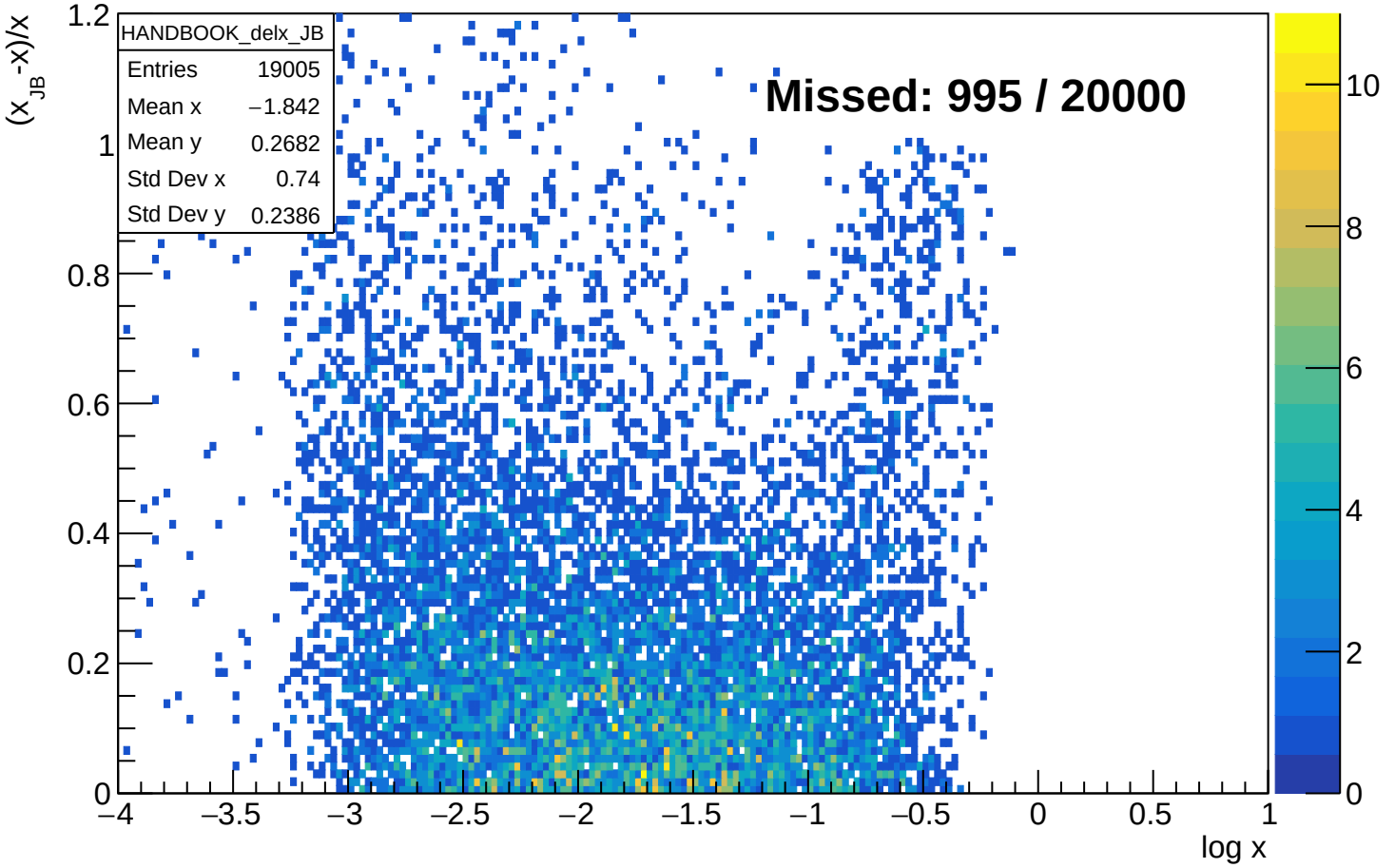

HANDBOOK_delQ2_NM
HANDBOOK_delQ2_NM
Entries 10342
Mean x 1.27
Mean y 0.01371
Std Dev x 0.435
Std Dev y 0.01315
Missed: 9658 / 20000
(Q2NM -Q2)/Q2
log Q2
1.2
1
0.8
0.6
0.4
0.2
0
−3
−2
−1
0
1
2
3
4
5
450
400
350
300
250
200
150
100
50
0

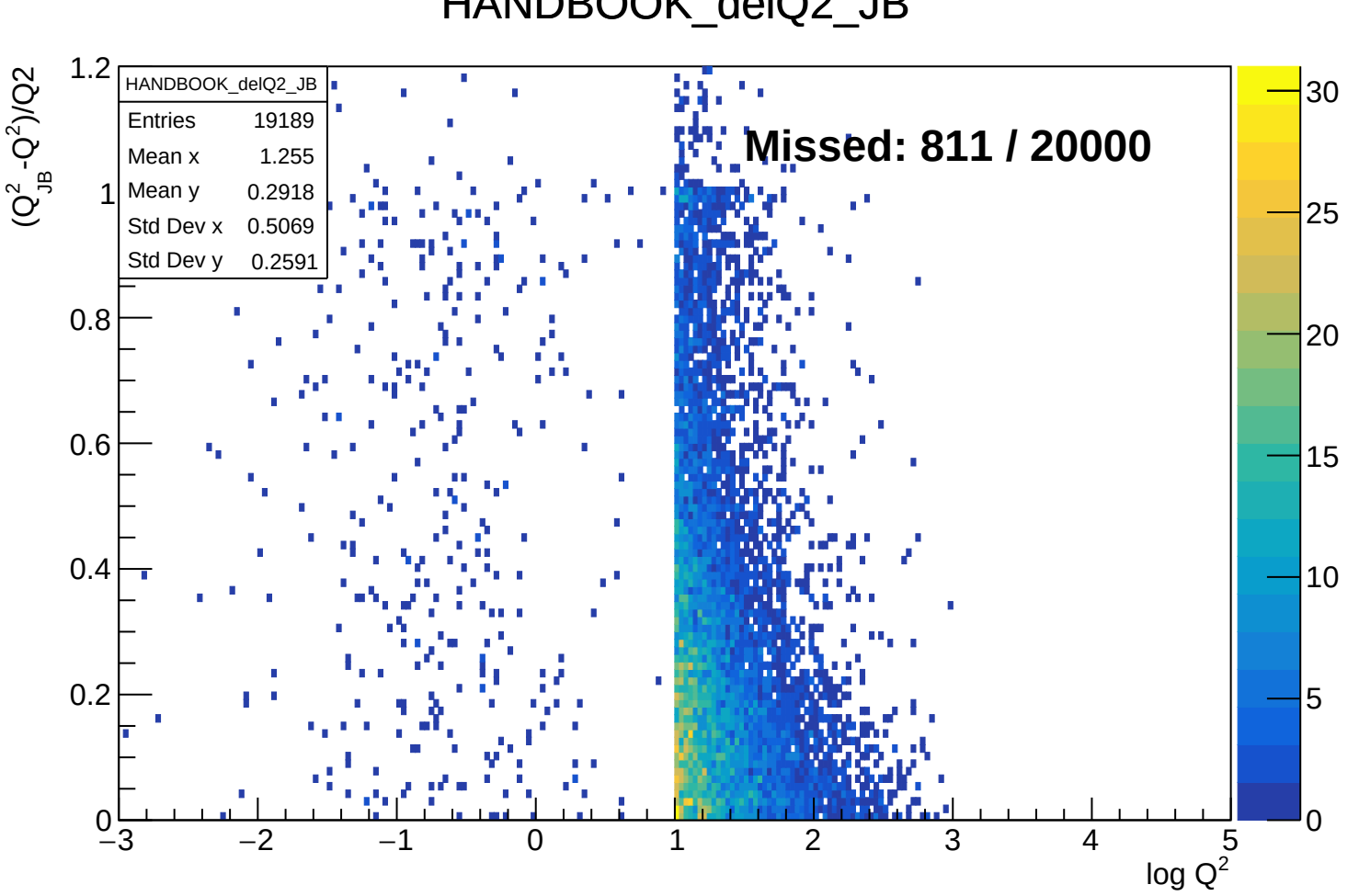

HANDBOOK_dely_DA
HANDBOOK_dely_DA
Entries 10203
Mean x 0.2007
Mean y 0.1174
Std Dev x 0.2466
Std Dev y 0.1283
Missed: 9797 / 20000
(y_DA-y)/y
y
0
0.2
0.4
0.6
0.8
1
1.2
20
40
60
80
100

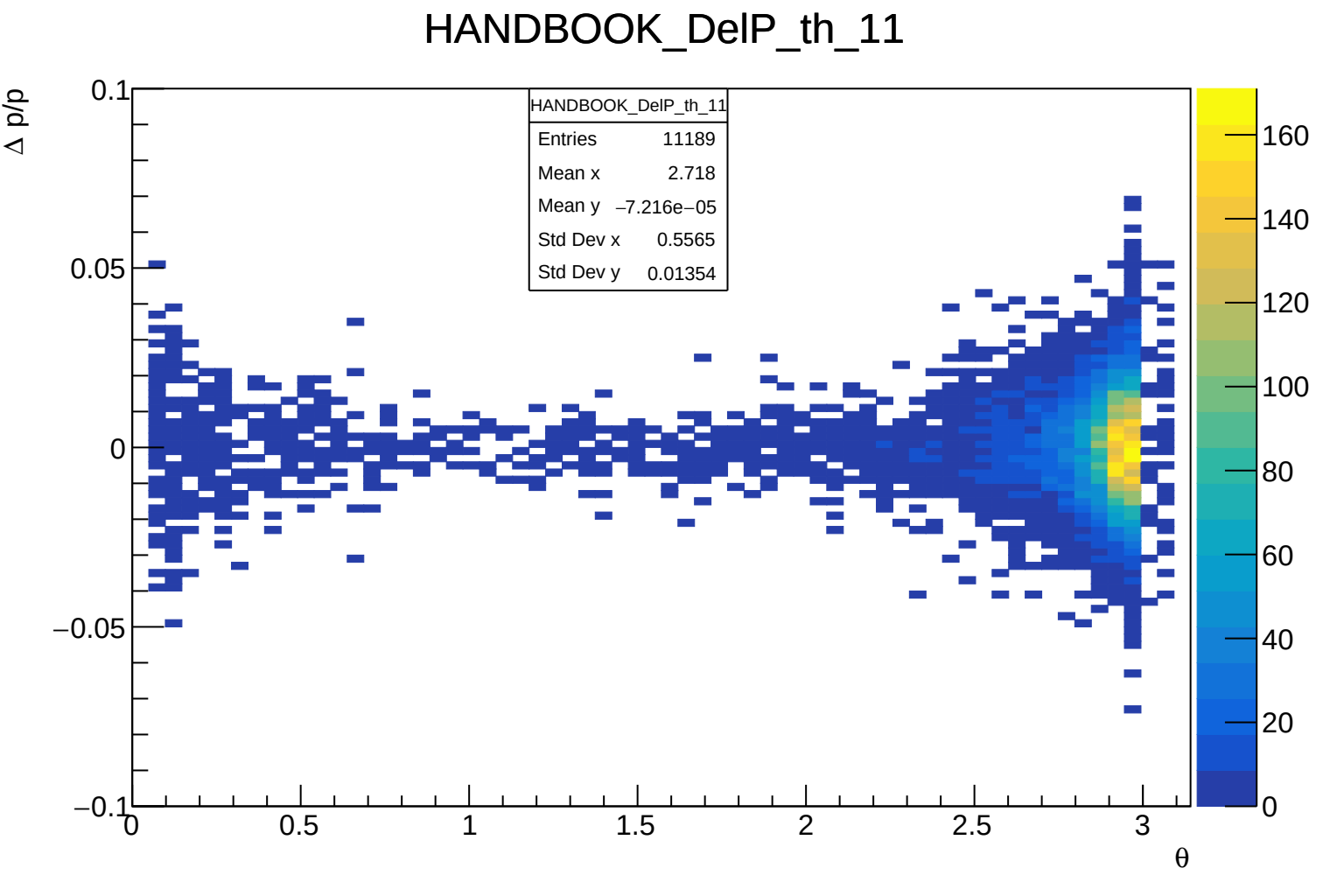

HANDBOOK_delx_DA
HANDBOOK_delx_DA
Entries 10203
Mean x −1.846
Mean y 0.1609
Std Dev x 0.7447
Std Dev y 0.1662
Missed: 9797 / 20000
(x_DA-x)/x
log x
1.2
1
0.8
0.6
0.4
0.2
0
−4
−3.5
−3
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
22
20
18
16
14
12
10
8
6
4
2
0

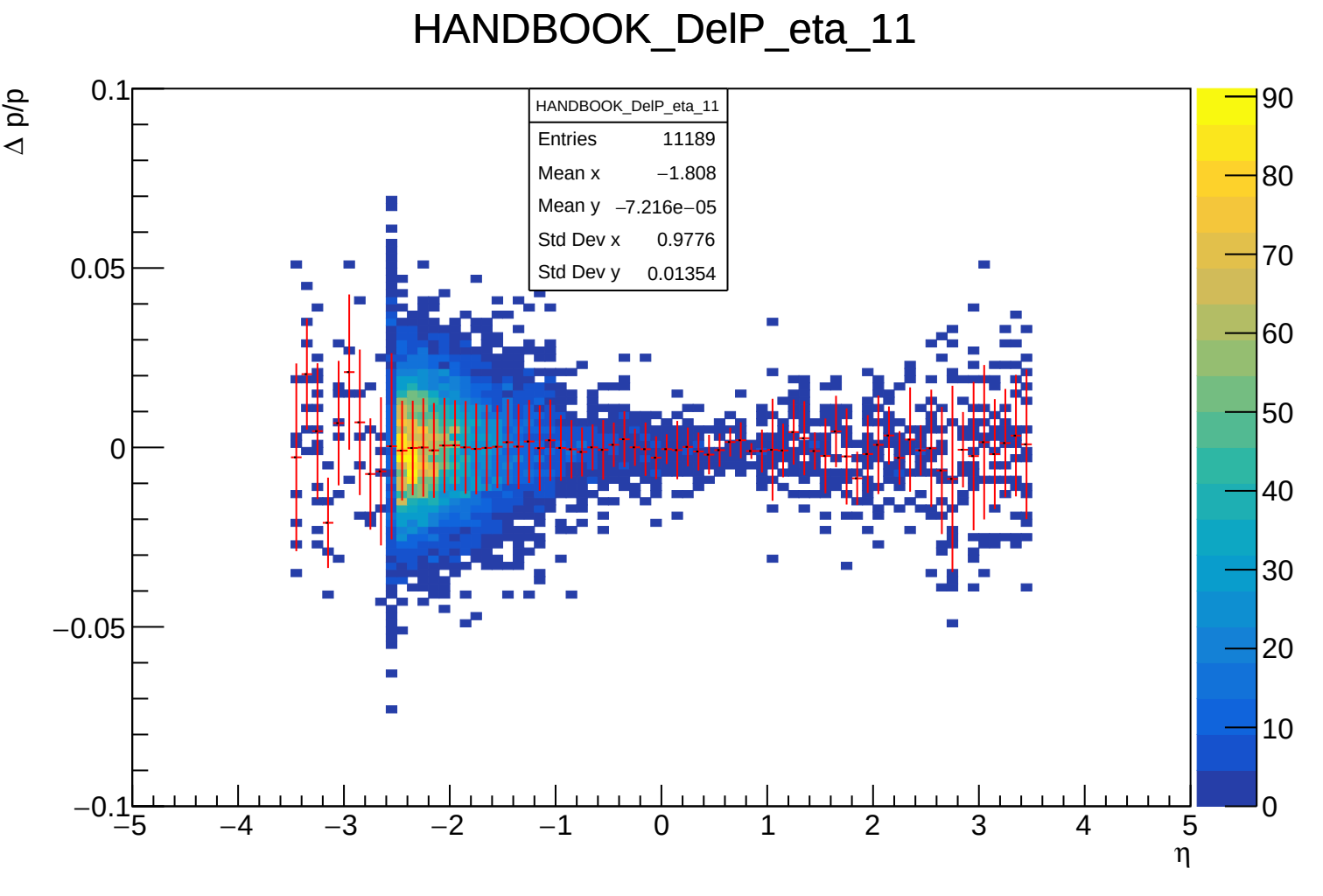

HANDBOOK_delQ2_DA
HANDBOOK_delQ2_DA
Entries 10203
Mean x 1.286
Mean y 0.04625
Std Dev x 0.4368
Std Dev y 0.1073
Missed: 9797 / 20000
(Q2DA -Q2)/Q2
log Q2
1.2
1
0.8
0.6
0.4
0.2
0
−3
−2
−1
0
1
2
3
4
5
200
180
160
140
120
100
80
60
40
20
0

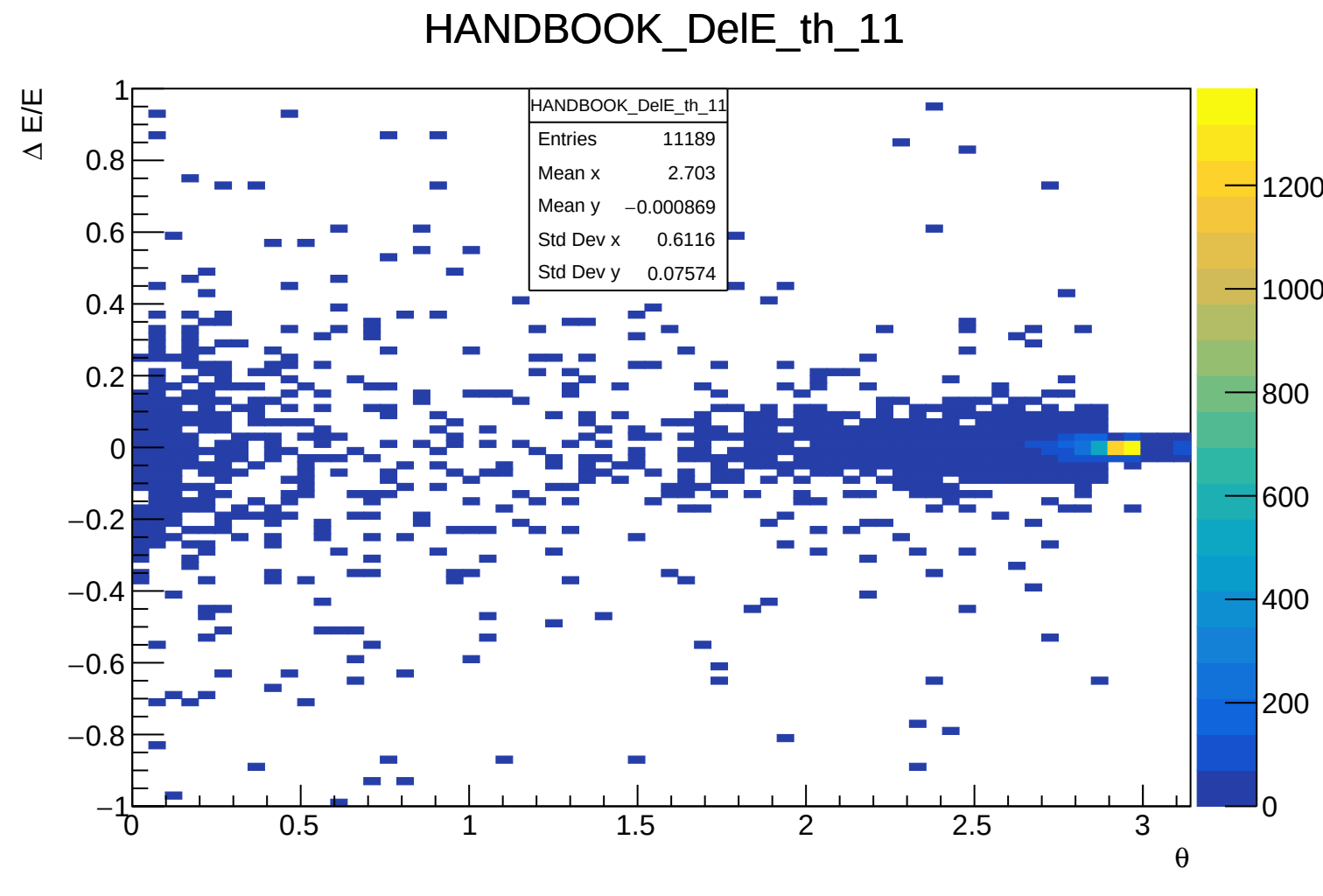

HANDBOOK_dely_JB
HANDBOOK_dely_JB
Entries 19012
Mean x 0.1481
Mean y 0.1829
Std Dev x 0.2182
Std Dev y 0.212
Missed: 988 / 20000
(y_JB-y)/y
y
0
0.2
0.4
0.6
0.8
1
1.2
20
40
60
80
100
120
140
160

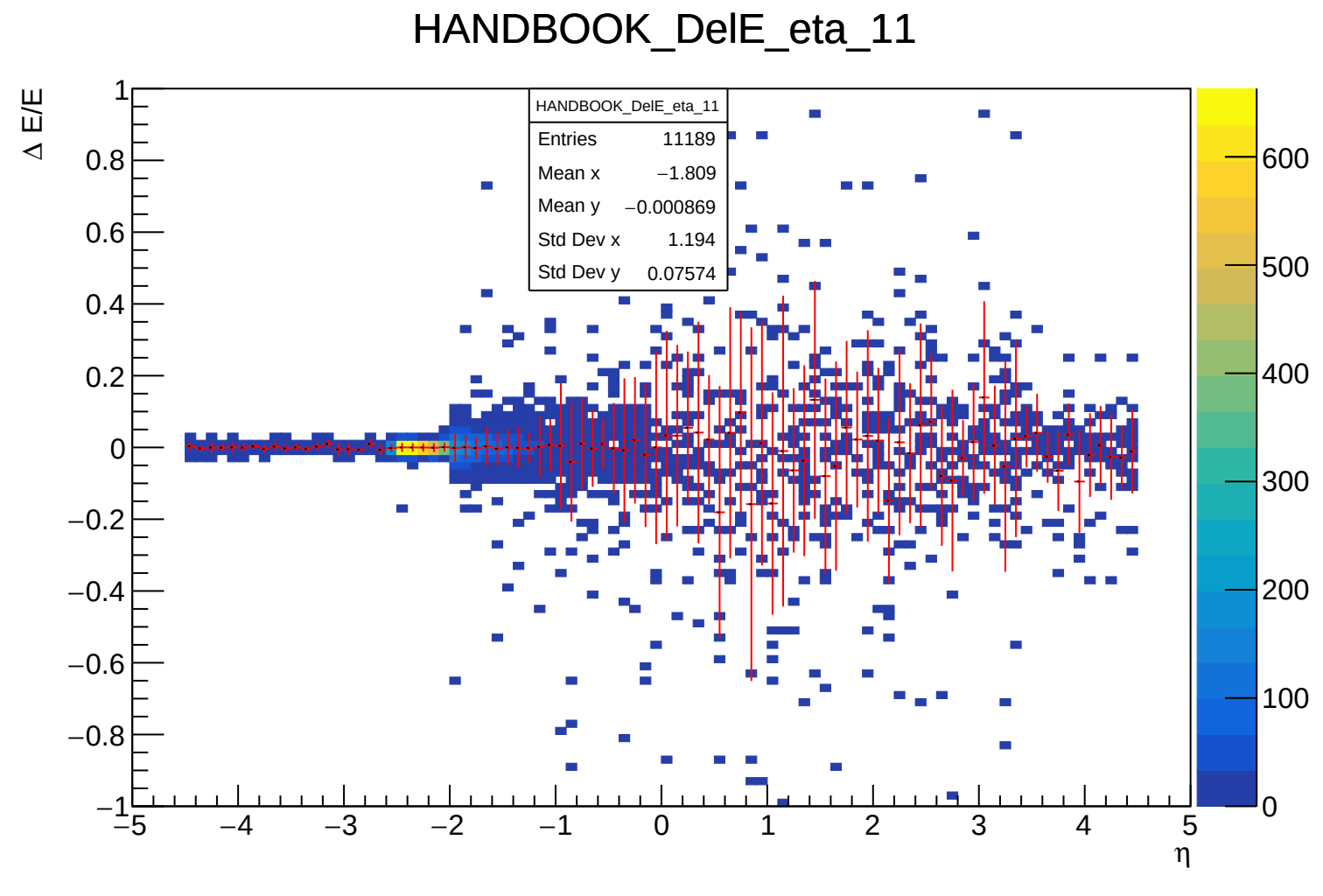

HANDBOOK_delx_JB
HANDBOOK_delx_JB
Entries 19005
Mean x −1.842
Mean y 0.2682
Std Dev x 0.74
Std Dev y 0.2386
Missed: 995 / 20000
(x_JB-x)/x
log x
1.2
1
0.8
0.6
0.4
0.2
0
−4
−3.5
−3
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
10
8
6
4
2
0

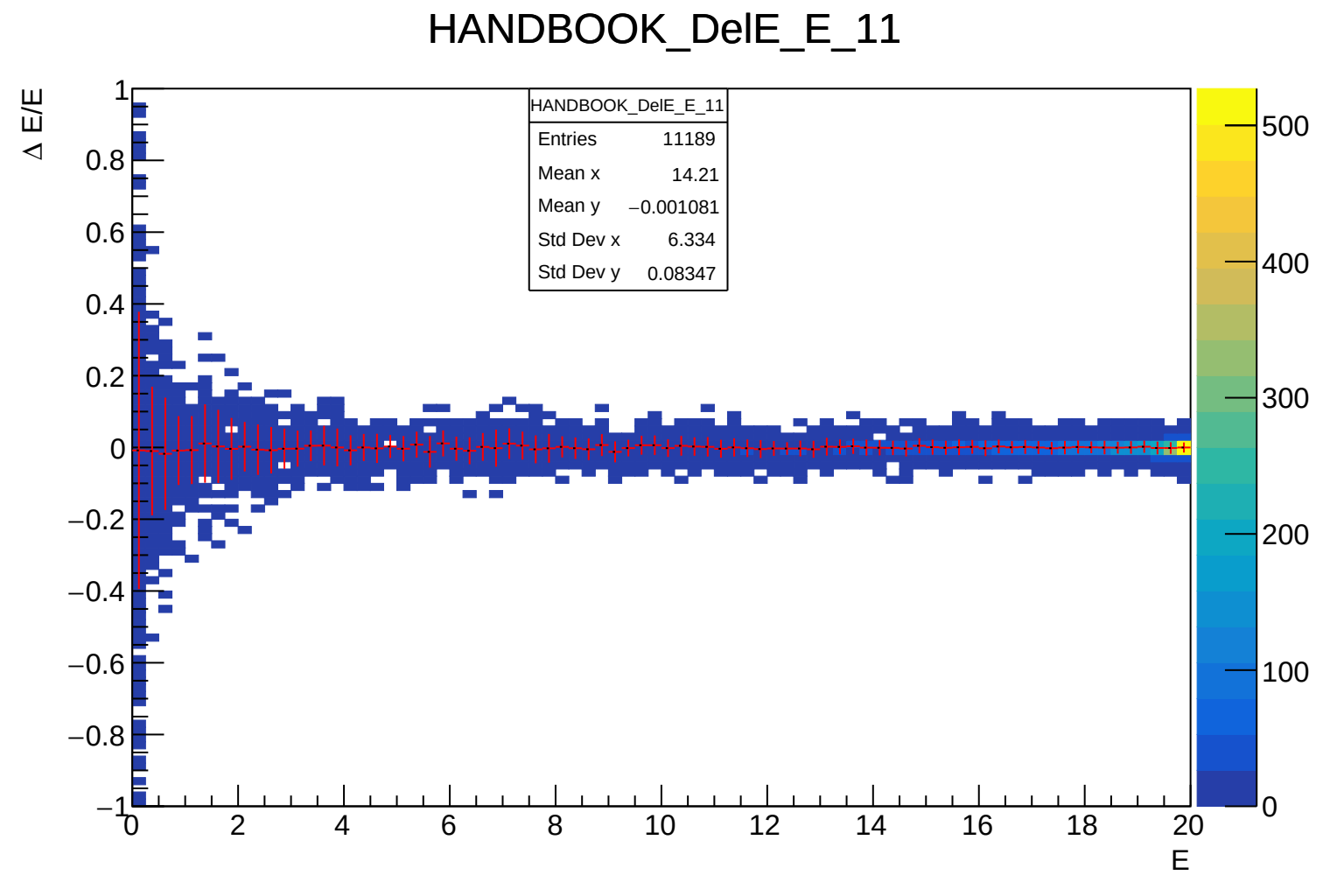

HANDBOOK_delQ2_JB
HANDBOOK_delQ2_JB
Entries 19189
Mean x 1.255
Mean y 0.2918
Std Dev x 0.5069
Std Dev y 0.2591
Missed: 811 / 20000
(Q2JB -Q2)/Q2
log Q2
1.2
1
0.8
0.6
0.4
0.2
0
−3
−2
−1
0
1
2
3
4
5
30
25
20
15
10
5
0

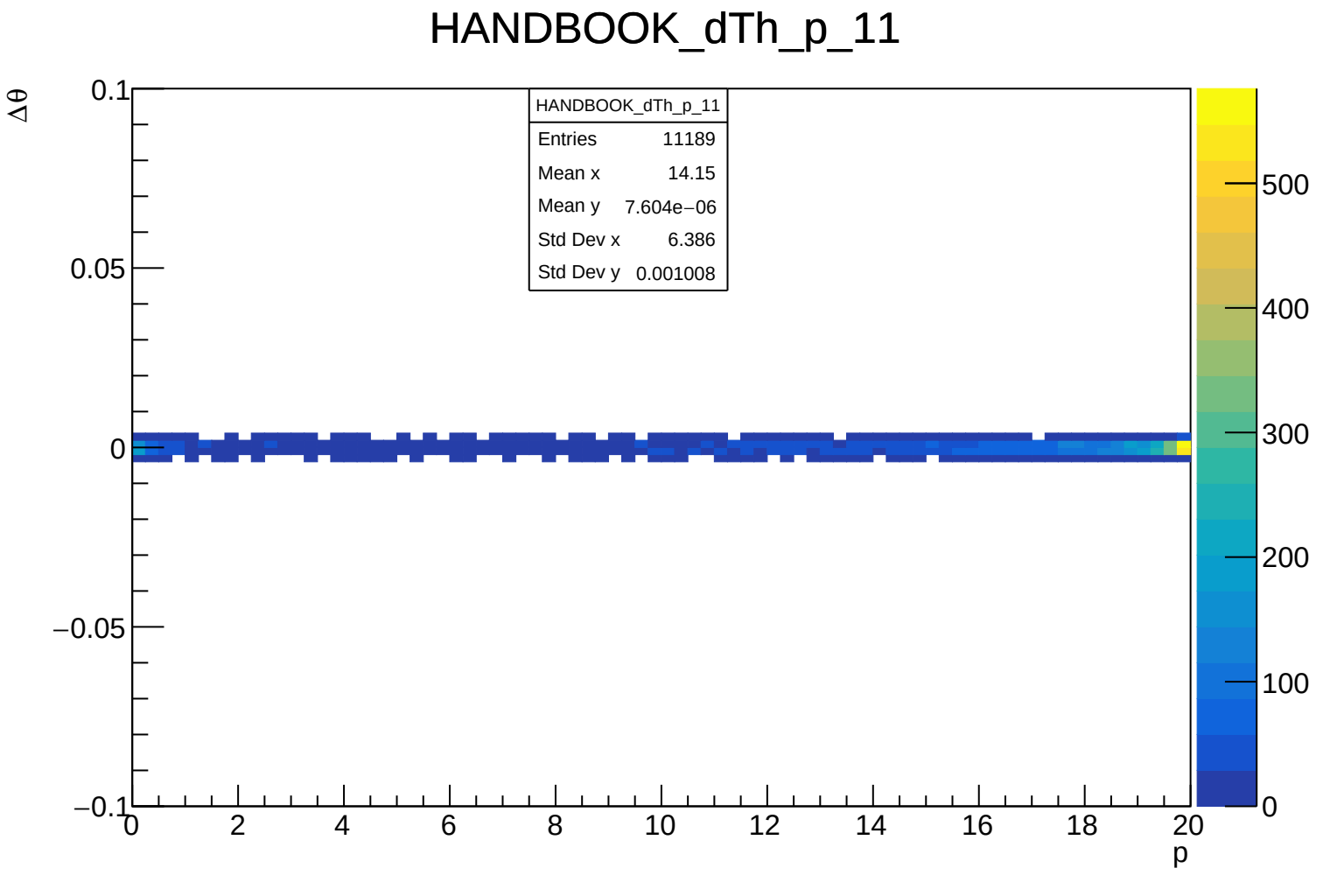

HANDBOOK_DelP_th_11
HANDBOOK_DelP_th_11
Entries 11189
Mean x 2.718
Mean y −7.216e−05
Std Dev x 0.5565
Std Dev y 0.01354
Δ p/p
θ
0.1
0.05
0
−0.05
−0.1
0
0.5
1
1.5
2
2.5
3
160
140
120
100
80
60
40
20
0

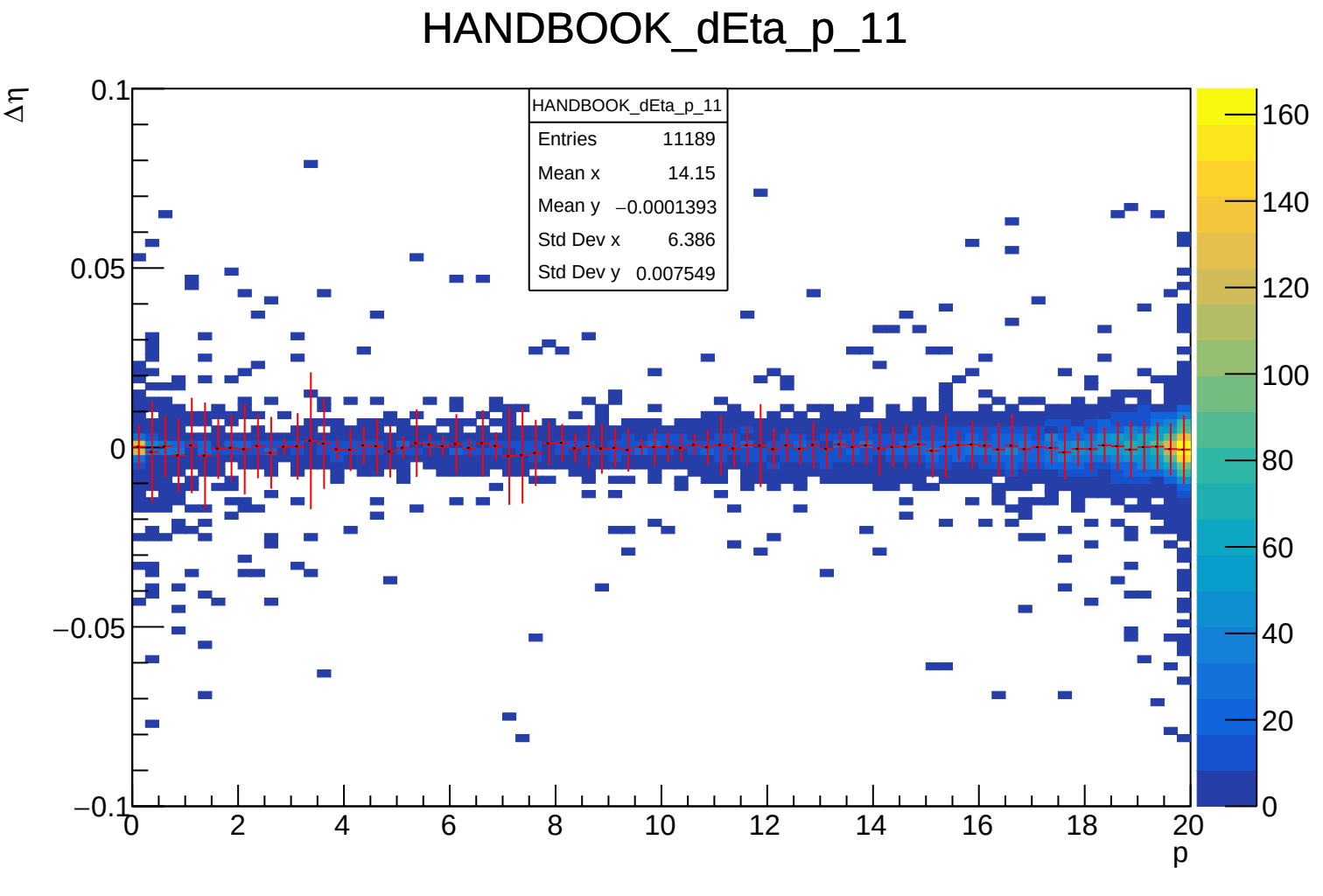

HANDBOOK_DelP_eta_11
HANDBOOK_DelP_eta_11
Entries 11189
Mean x −1.808
Mean y −7.216e−05
Std Dev x 0.9776
Std Dev y 0.01354
Δ p/p
η
0.1
0.05
0
−0.05
−0.1
−5
−4
−3
−2
−1
0
1
2
3
4
5
90
80
70
60
50
40
30
20
10
0

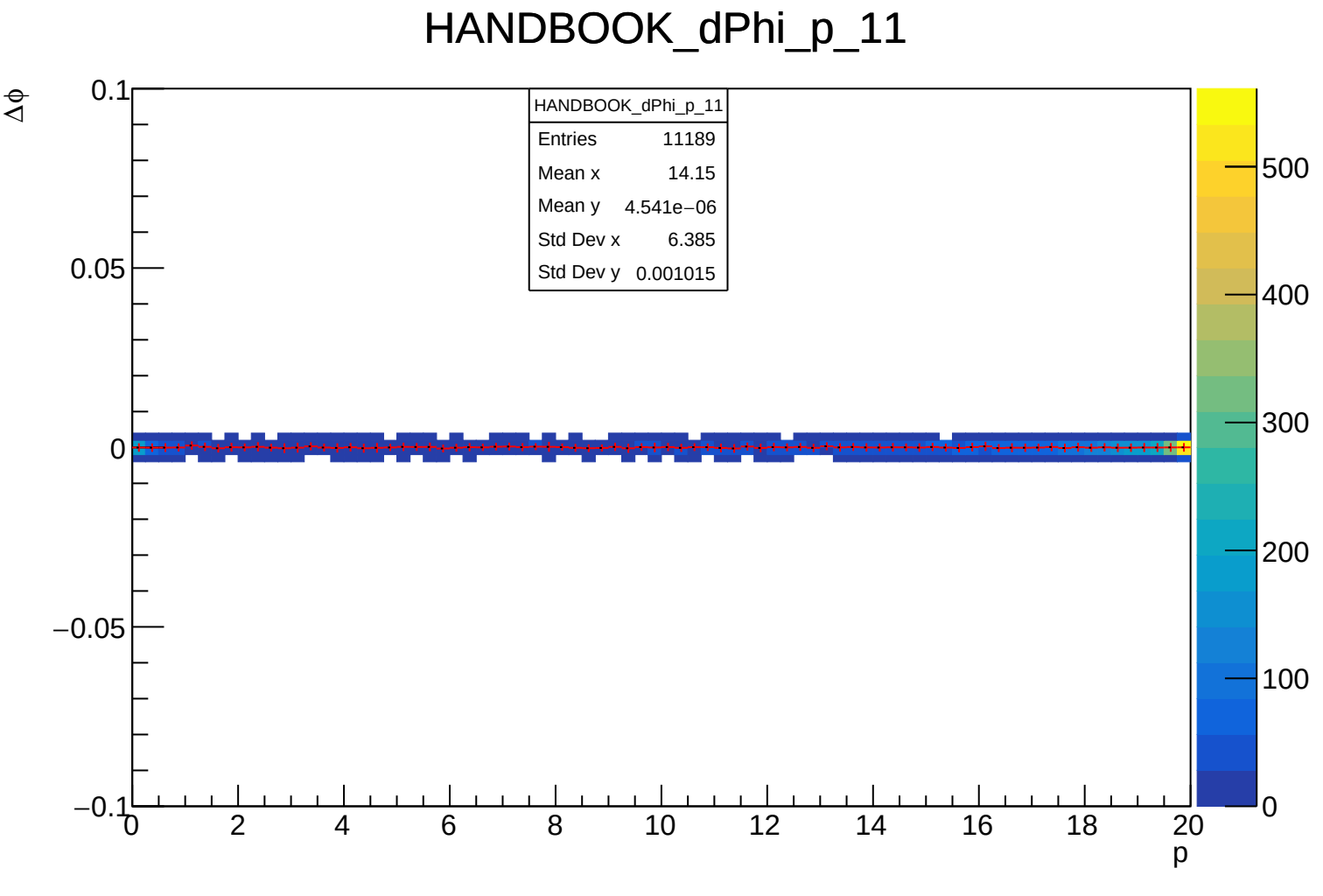

HANDBOOK_DelE_th_11
HANDBOOK_DelE_th_11
Entries 11189
Mean x 2.703
Mean y −0.000869
Std Dev x 0.6116
Std Dev y 0.07574
Δ E/E
θ
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
0
0.5
1
1.5
2
2.5
3
1200
1000
800
600
400
200
0

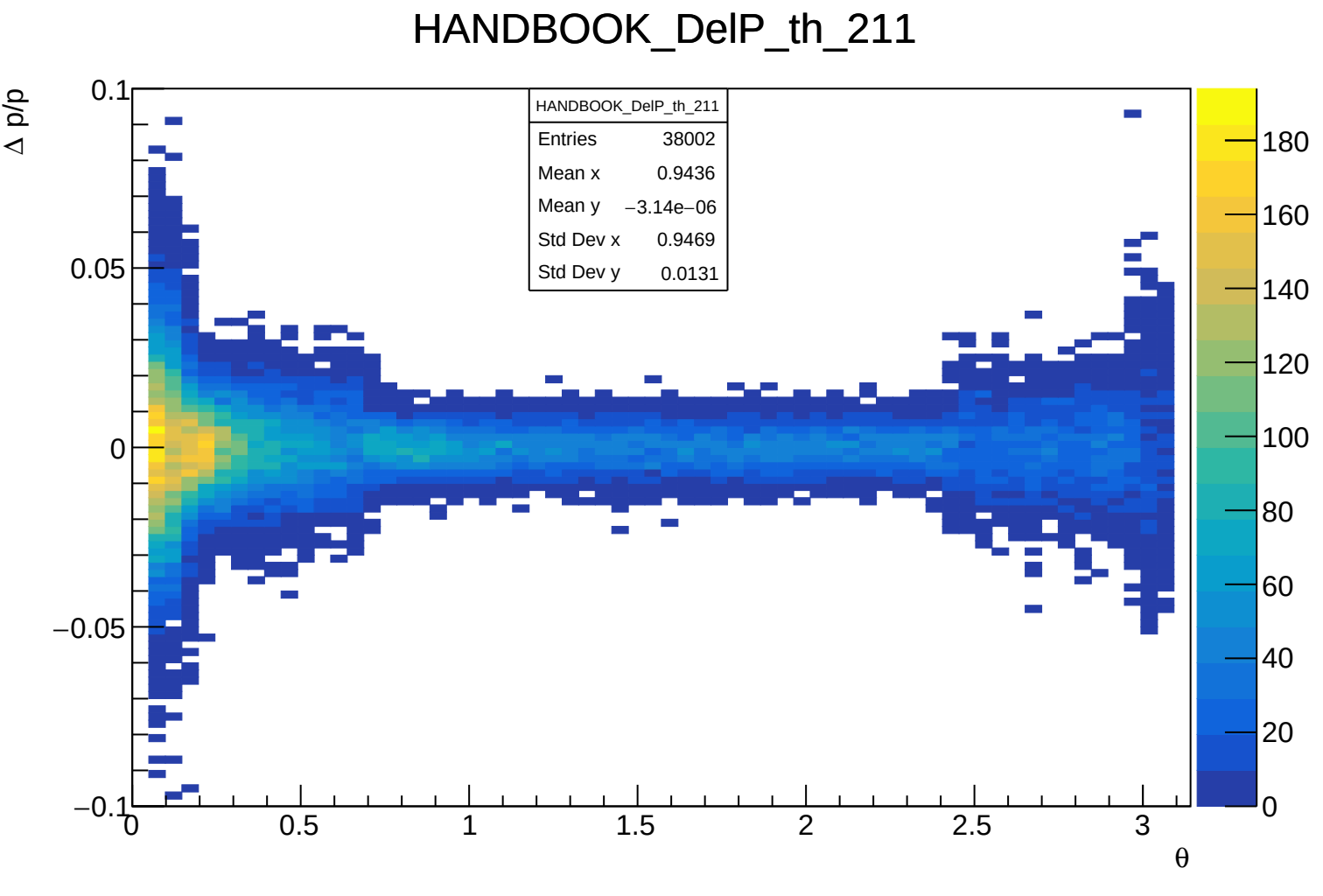

HANDBOOK_DelE_eta_11
HANDBOOK_DelE_eta_11
Entries 11189
Mean x −1.809
Mean y −0.000869
Std Dev x 1.194
Std Dev y 0.07574
Δ E/E
η
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−5
−4
−3
−2
−1
0
1
2
3
4
5
600
500
400
300
200
100
0

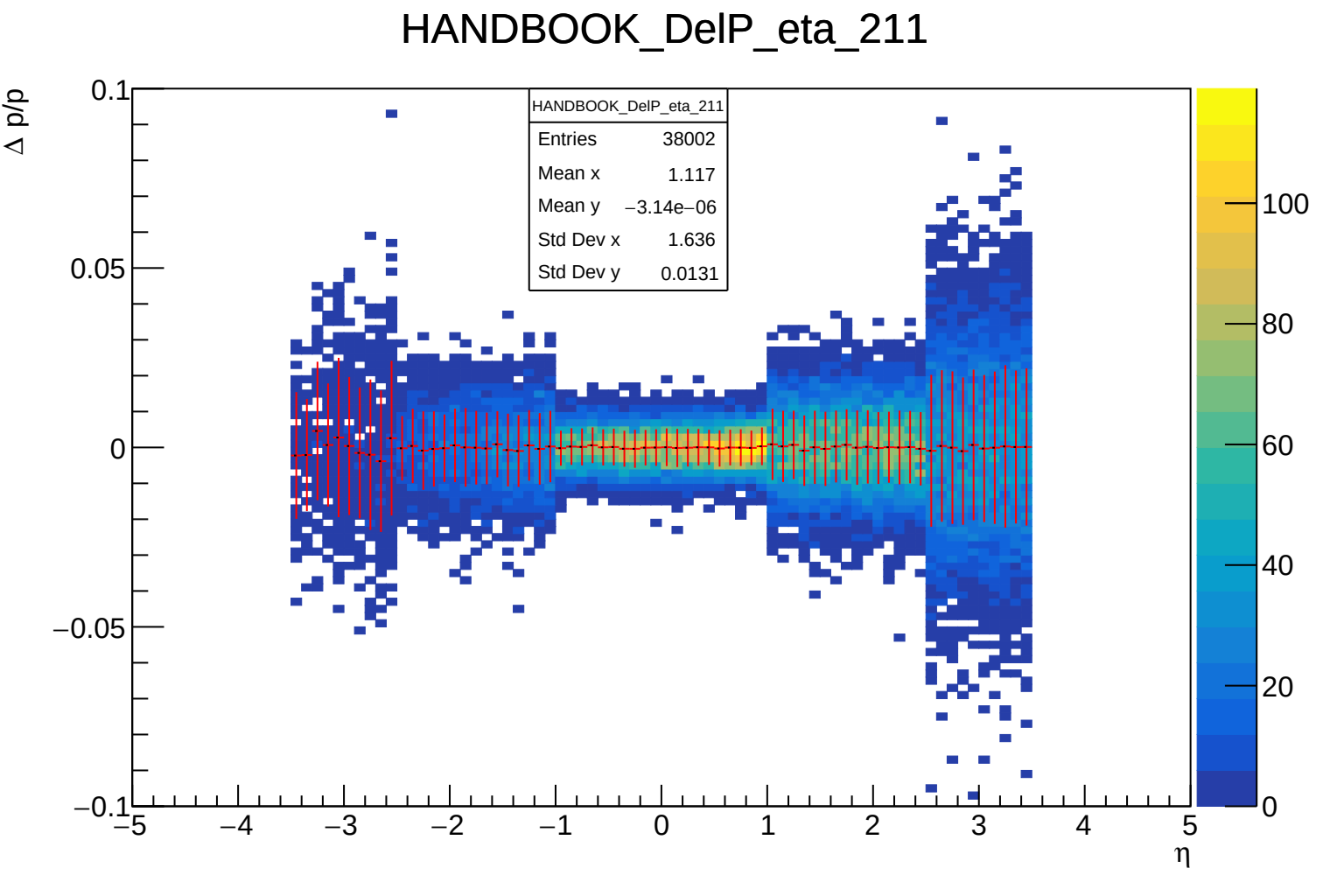

HANDBOOK_DelE_E_11
HANDBOOK_DelE_E_11
Entries 11189
Mean x 14.21
Mean y −0.001081
Std Dev x 6.334
Std Dev y 0.08347
Δ E/E
E
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
0
2
4
6
8
10
12
14
16
18
20
500
400
300
200
100
0

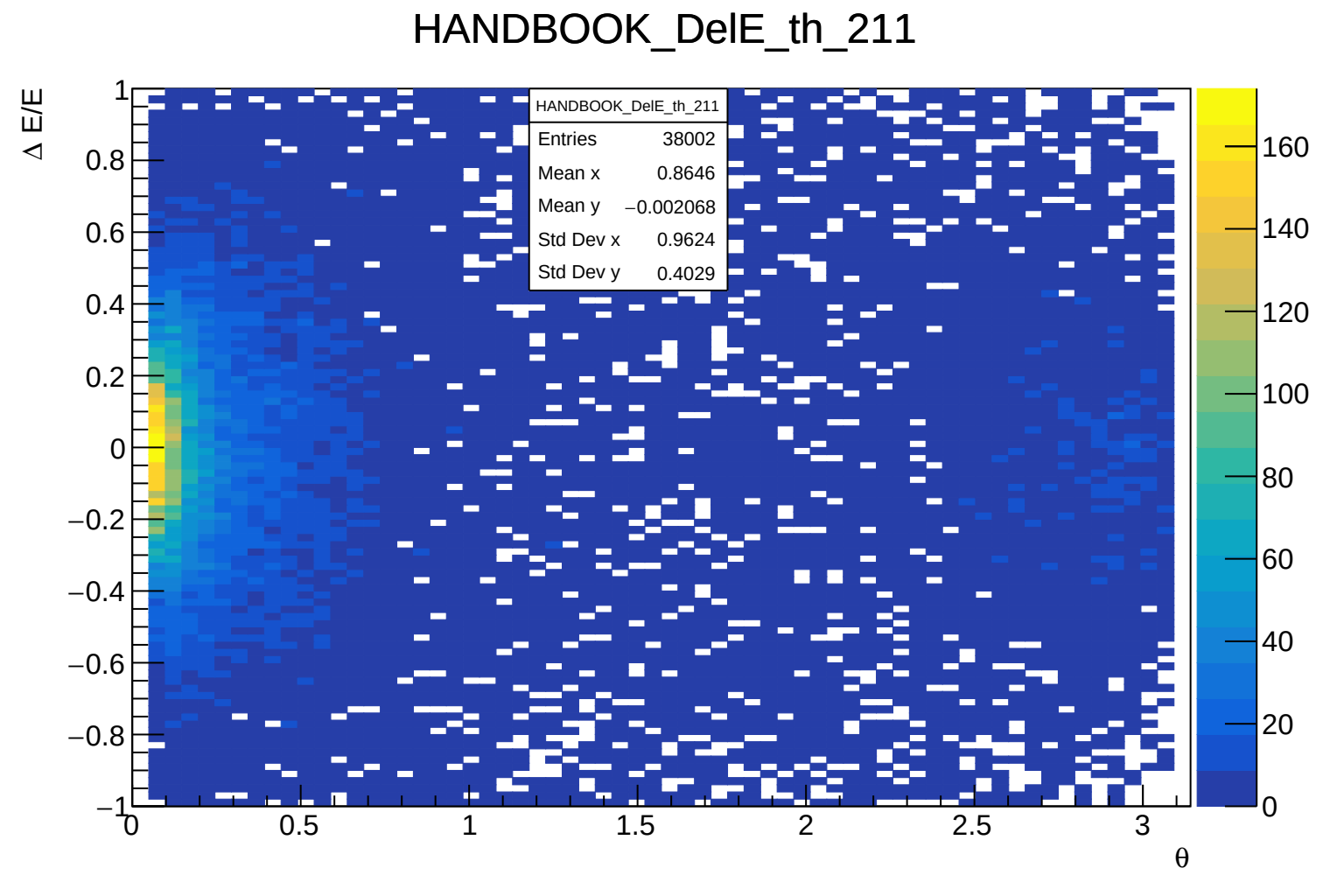

HANDBOOK_dTh_p_11
HANDBOOK_dTh_p_11
Entries 11189
Mean x 14.15
Mean y 7.604e−06
Std Dev x 6.386
Std Dev y 0.001008
Δθ
0.1
0.05
0
−0.05
−0.1
0
2
4
6
8
10
12
14
16
18
20
p
500
400
300
200
100
0

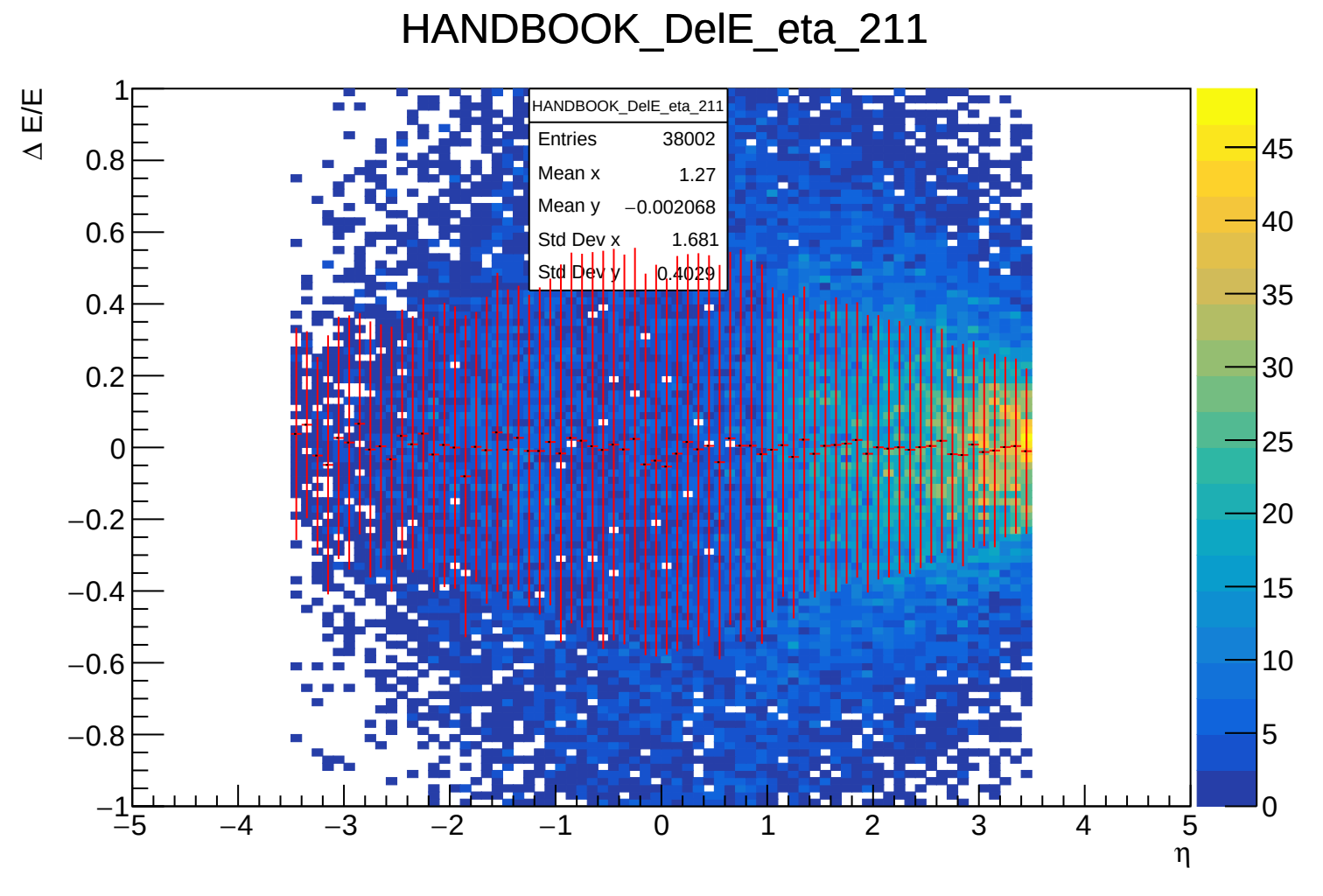

HANDBOOK_dEta_p_11
HANDBOOK_dEta_p_11
Entries 11189
Mean x 14.15
Mean y −0.0001393
Std Dev x 6.386
Std Dev y 0.007549
Δη
p
0.1
0.05
0
−0.05
−0.1
0
2
4
6
8
10
12
14
16
18
20
160
140
120
100
80
60
40
20
0

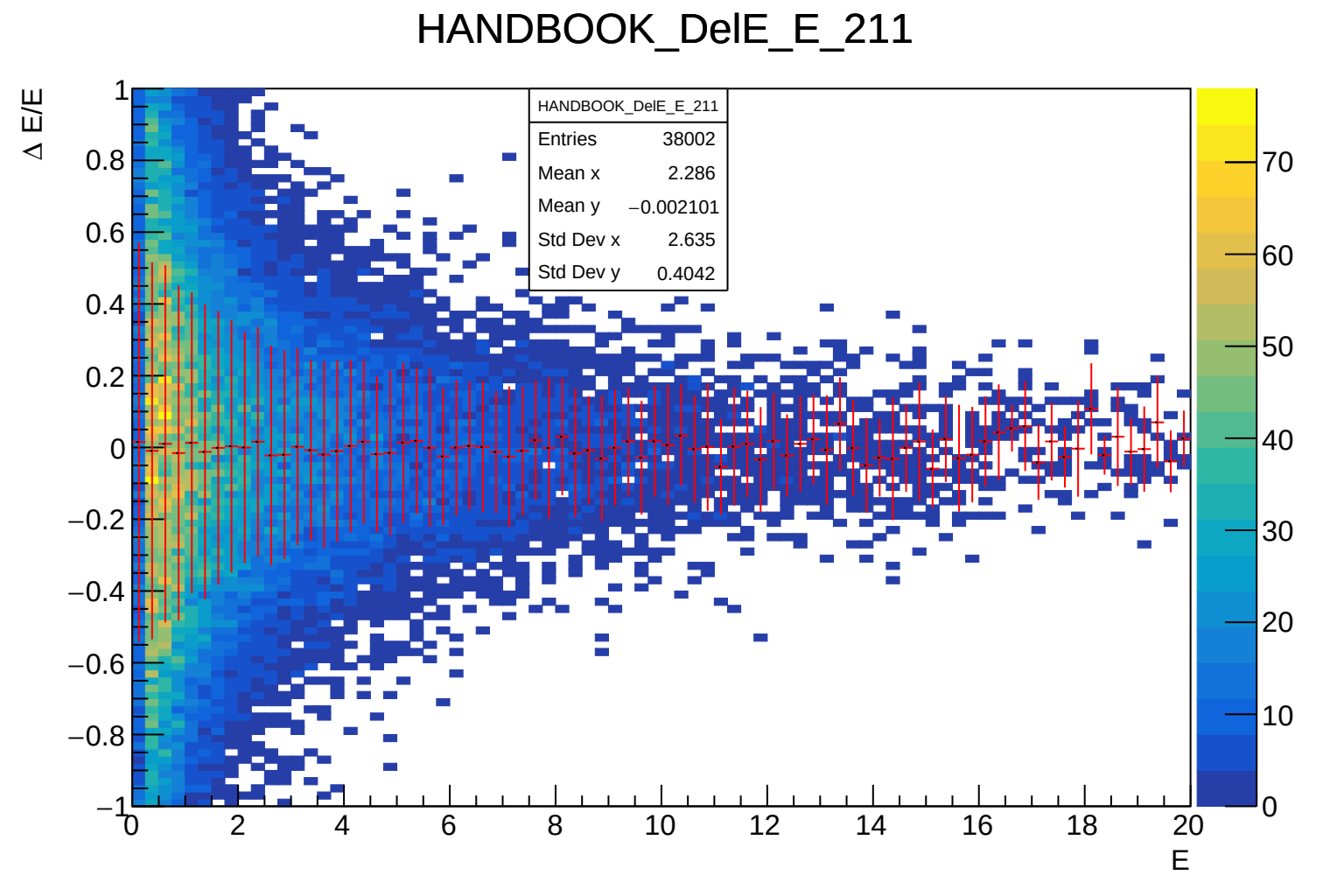

HANDBOOK_dPhi_p_11
HANDBOOK_dPhi_p_11
Entries 11189
Mean x 14.15
Mean y 4.541e−06
Std Dev x 6.385
Std Dev y 0.001015
Δϕ
0.1
0.05
0
−0.05
−0.1
0
2
4
6
8
10
12
14
16
18
20
p
500
400
300
200
100
0

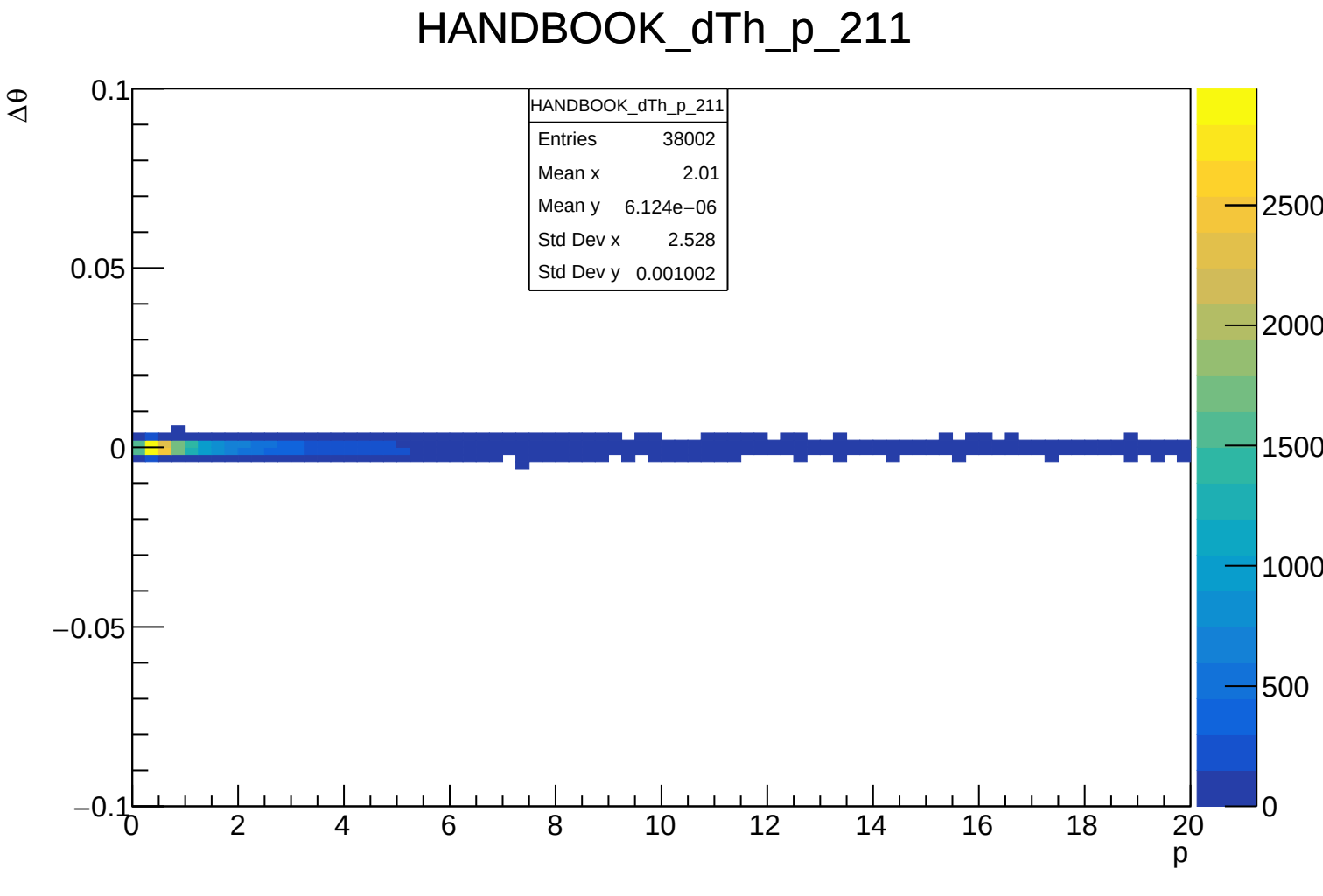

HANDBOOK_DelP_th_211
HANDBOOK_DelP_th_211
Entries 38002
Mean x 0.9436
Mean y −3.14e−06
Std Dev x 0.9469
Std Dev y 0.0131
Δ p/p
θ
0.1
0.05
0
−0.05
−0.1
0
0.5
1
1.5
2
2.5
3
180
160
140
120
100
80
60
40
20
0

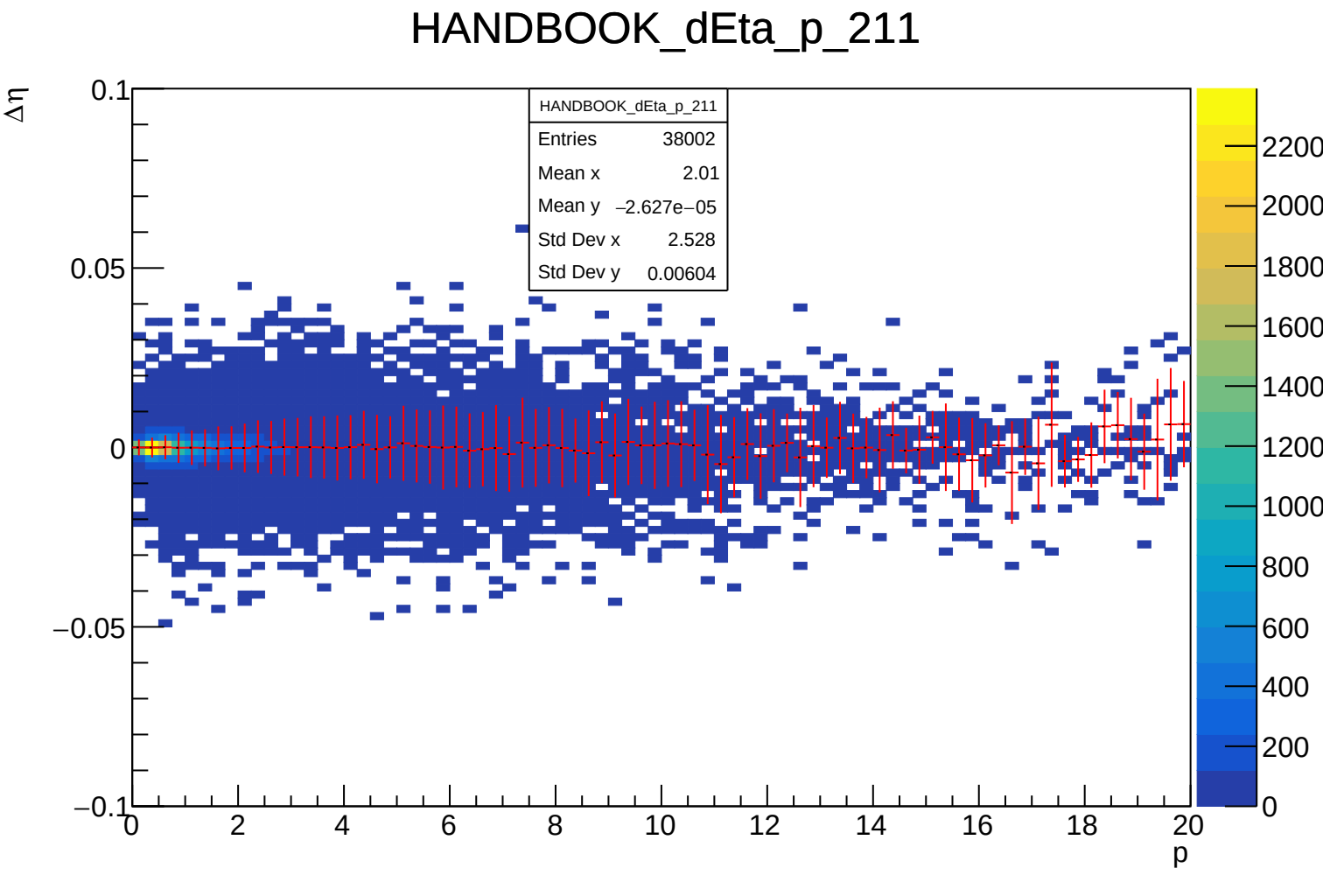

HANDBOOK_DelP_eta_211
HANDBOOK_DelP_eta_211
Entries 38002
Mean x 1.117
Mean y −3.14e−06
Std Dev x 1.636
Std Dev y 0.0131
Δ p/p
η
0.1
0.05
0
−0.05
−0.1
−5
−4
−3
−2
−1
0
1
2
3
4
5
100
80
60
40
20
0

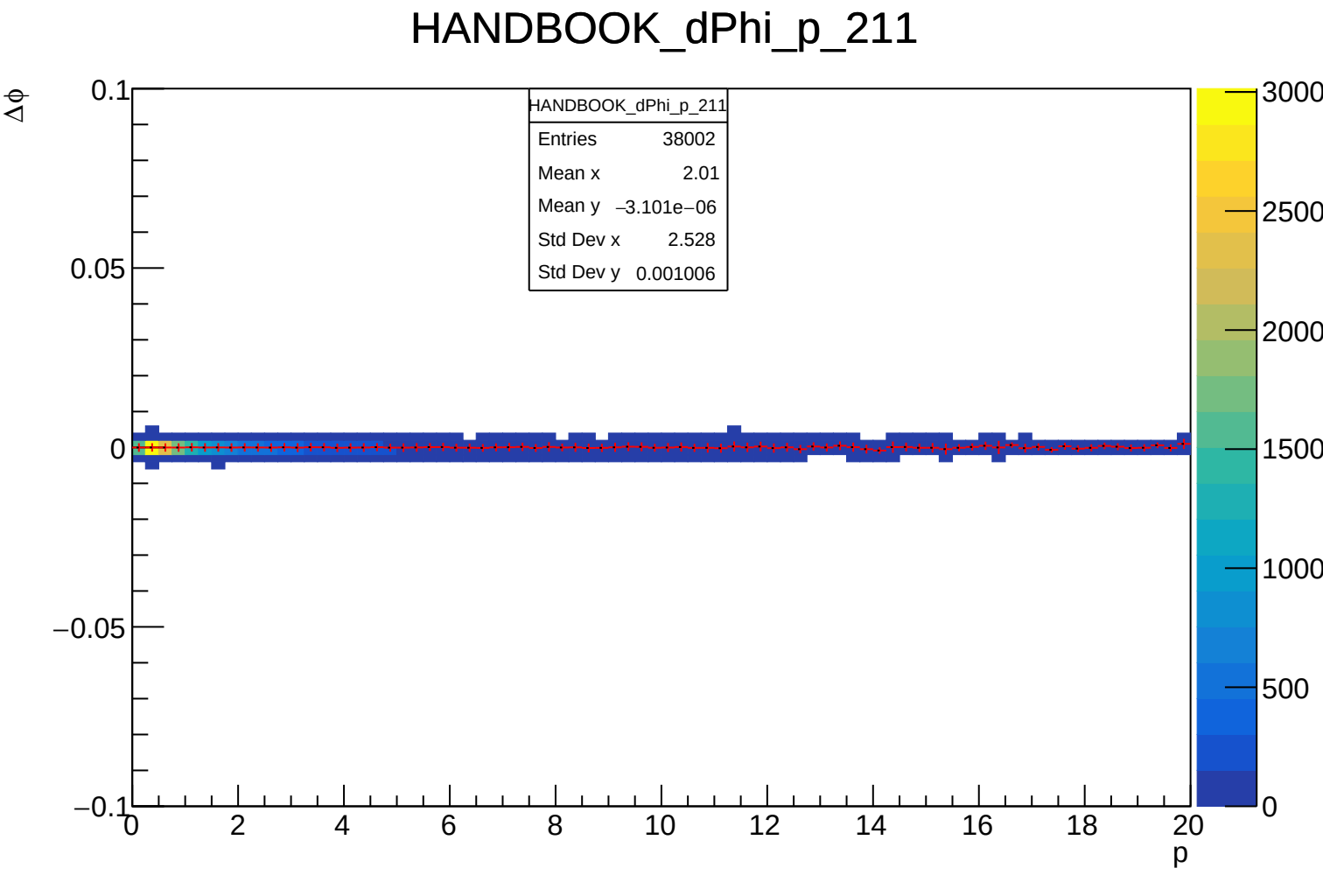

HANDBOOK_DelE_th_211
HANDBOOK_DelE_th_211
Entries 38002
Mean x 0.8646
Mean y −0.002068
Std Dev x 0.9624
Std Dev y 0.4029
Δ E/E
θ
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
0
0.5
1
1.5
2
2.5
3
160
140
120
100
80
60
40
20
0

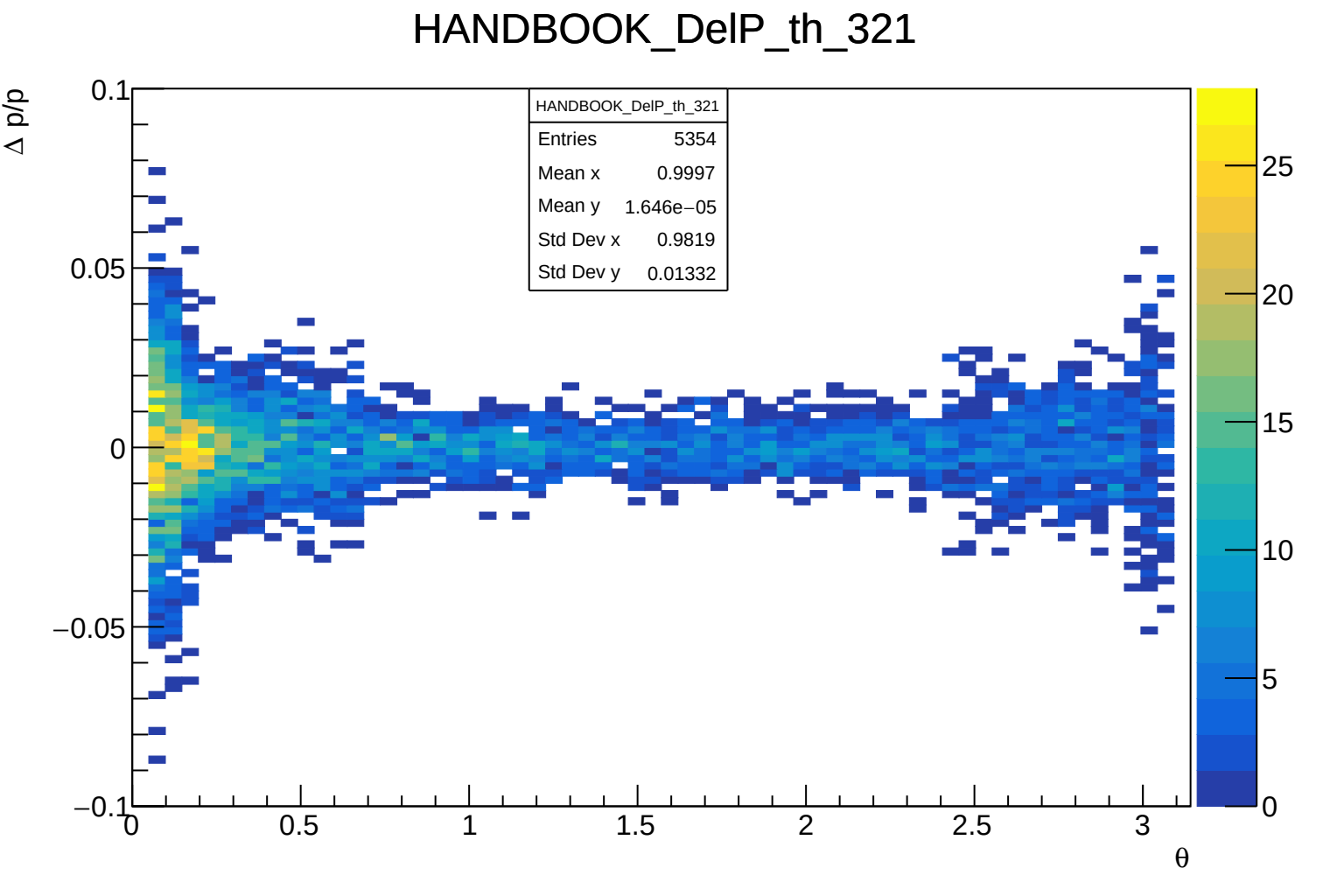

HANDBOOK_DelE_eta_211
HANDBOOK_DelE_eta_211
Entries 38002
Mean x 1.27
Mean y −0.002068
Std Dev x 1.681
Std Dev y 0.4029
Δ E/E
η
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−5
−4
−3
−2
−1
0
1
2
3
4
5
45
40
35
30
25
20
15
10
5
0

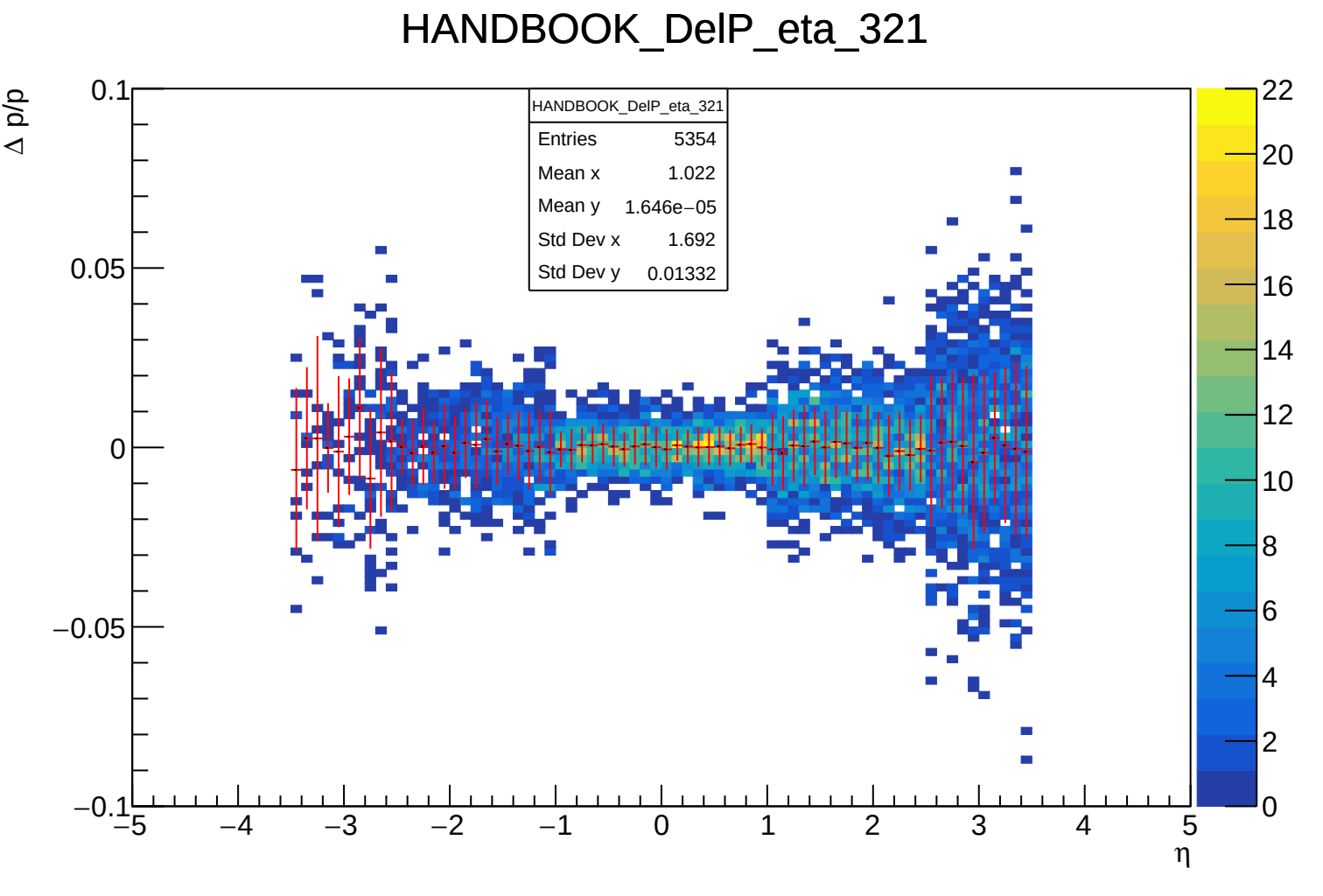

HANDBOOK_DelE_E_211
HANDBOOK_DelE_E_211
Entries 38002
Mean x 2.286
Mean y −0.002101
Std Dev x 2.635
Std Dev y 0.4042
Δ E/E
E
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
0
2
4
6
8
10
12
14
16
18
20
70
60
50
40
30
20
10
0

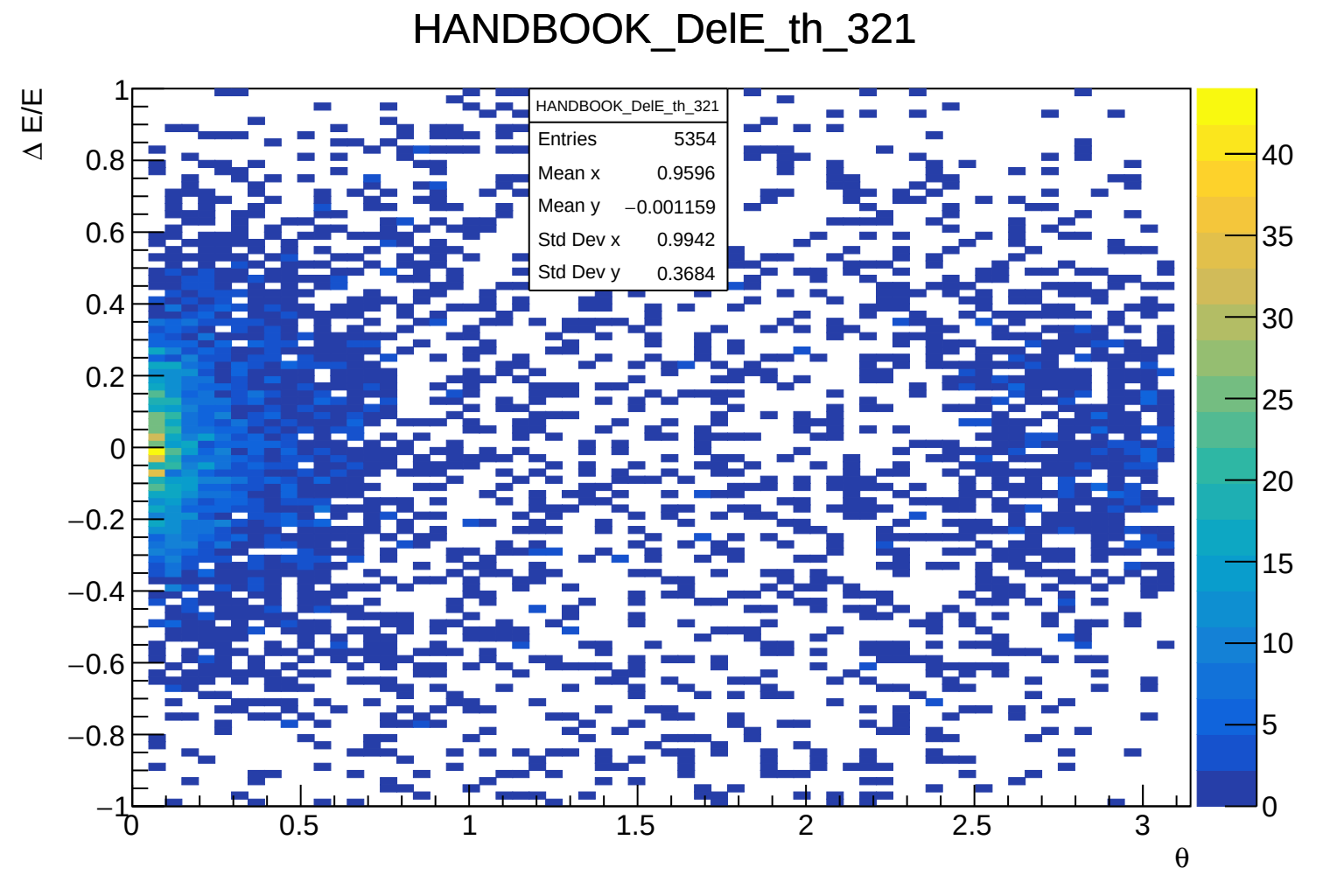

HANDBOOK_dTh_p_211
HANDBOOK_dTh_p_211
Entries 38002
Mean x 2.01
Mean y 6.124e−06
Std Dev x 2.528
Std Dev y 0.001002
Δθ
0.1
0.05
0
−0.05
−0.1
0
2
4
6
8
10
12
14
16
18
20
p
2500
2000
1500
1000
500
0

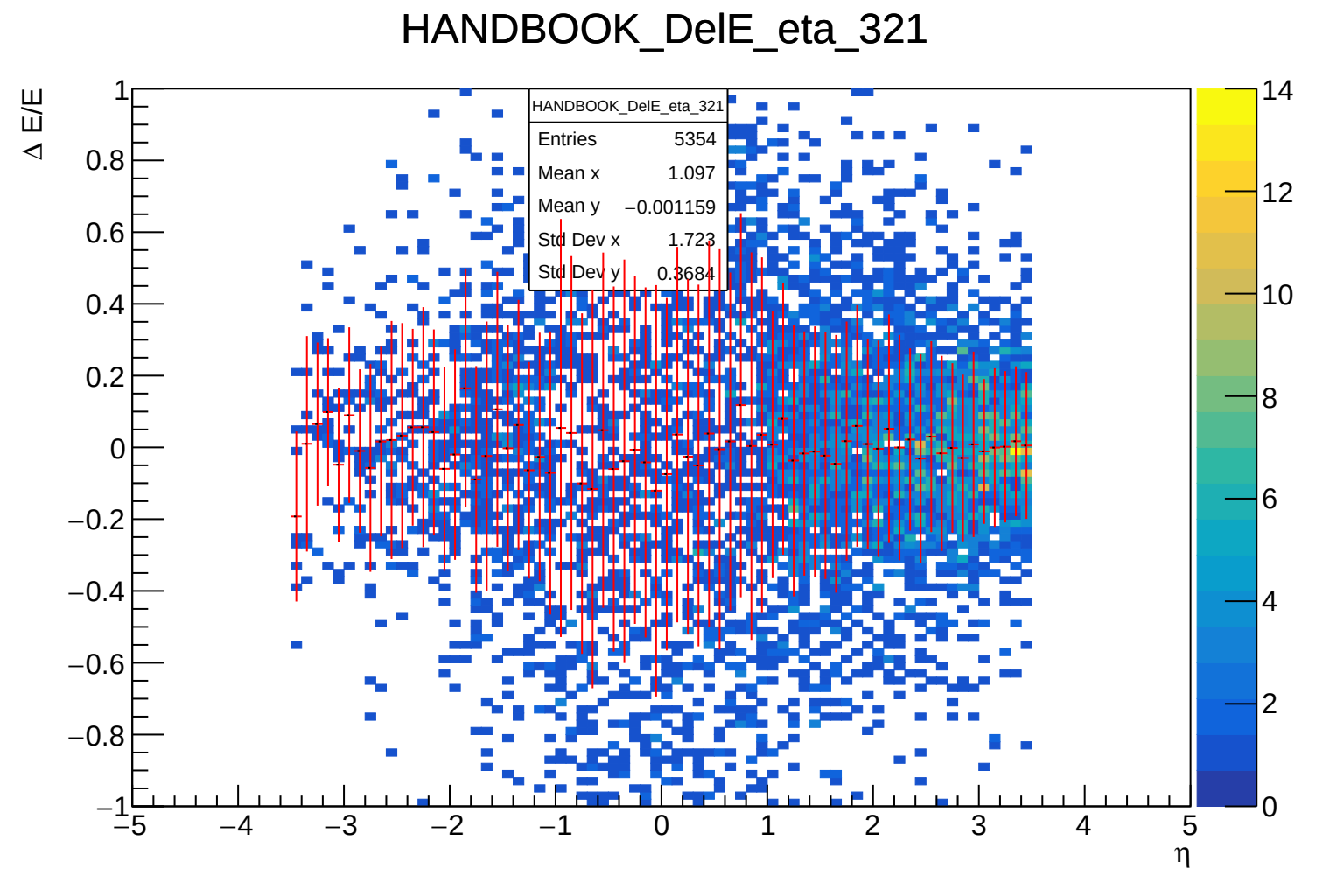

HANDBOOK_dEta_p_211
HANDBOOK_dEta_p_211
Entries 38002
Mean x 2.01
Mean y −2.627e−05
Std Dev x 2.528
Std Dev y 0.00604
Δη
p
0.1
0.05
0
−0.05
−0.1
0
2
4
6
8
10
12
14
16
18
20
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0

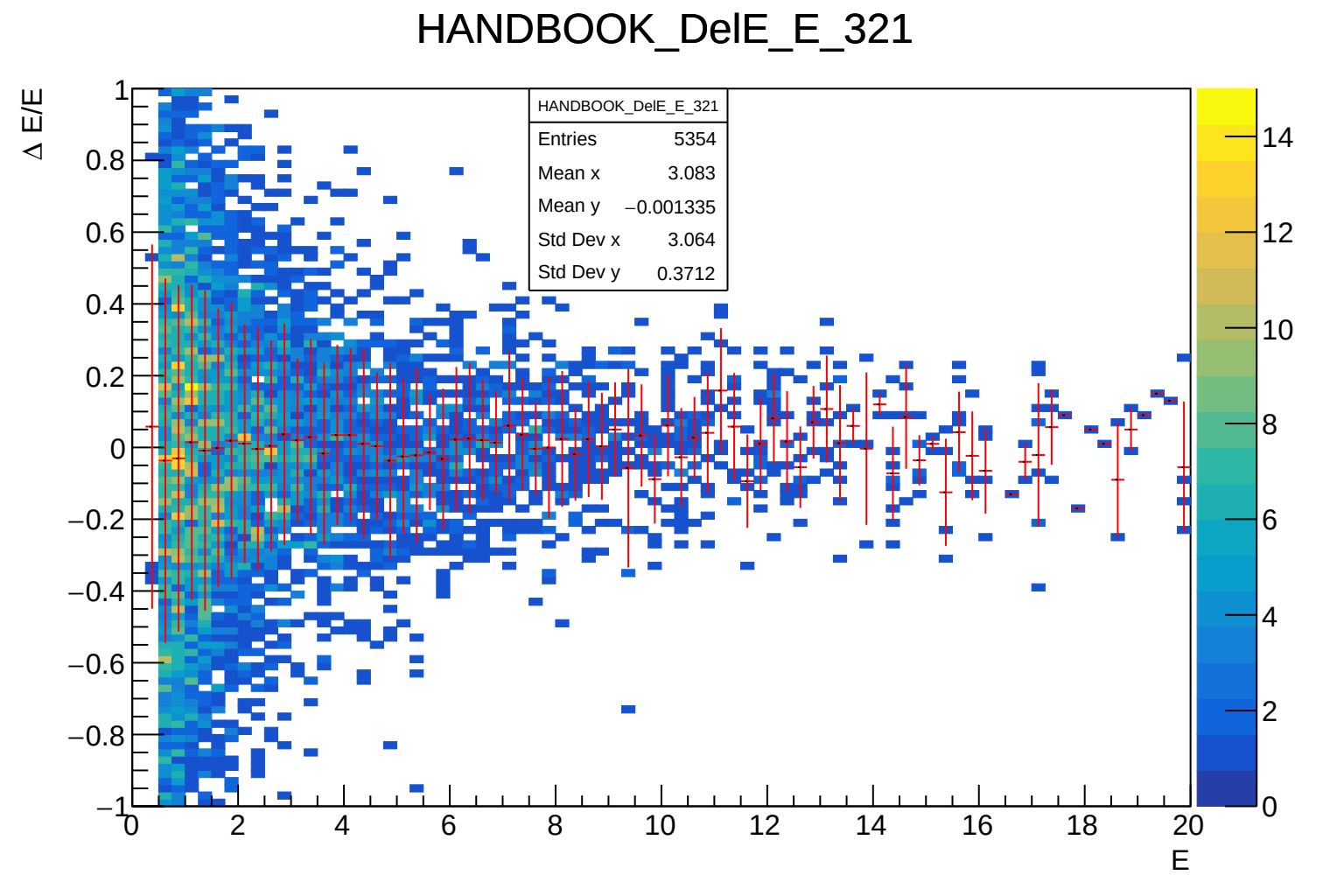

HANDBOOK_dPhi_p_211
HANDBOOK_dPhi_p_211
Entries 38002
Mean x 2.01
Mean y −3.101e−06
Std Dev x 2.528
Std Dev y 0.001006
Δϕ
0.1
0.05
0
−0.05
−0.1
0
2
4
6
8
10
12
14
16
18
20
p
3000
2500
2000
1500
1000
500
0

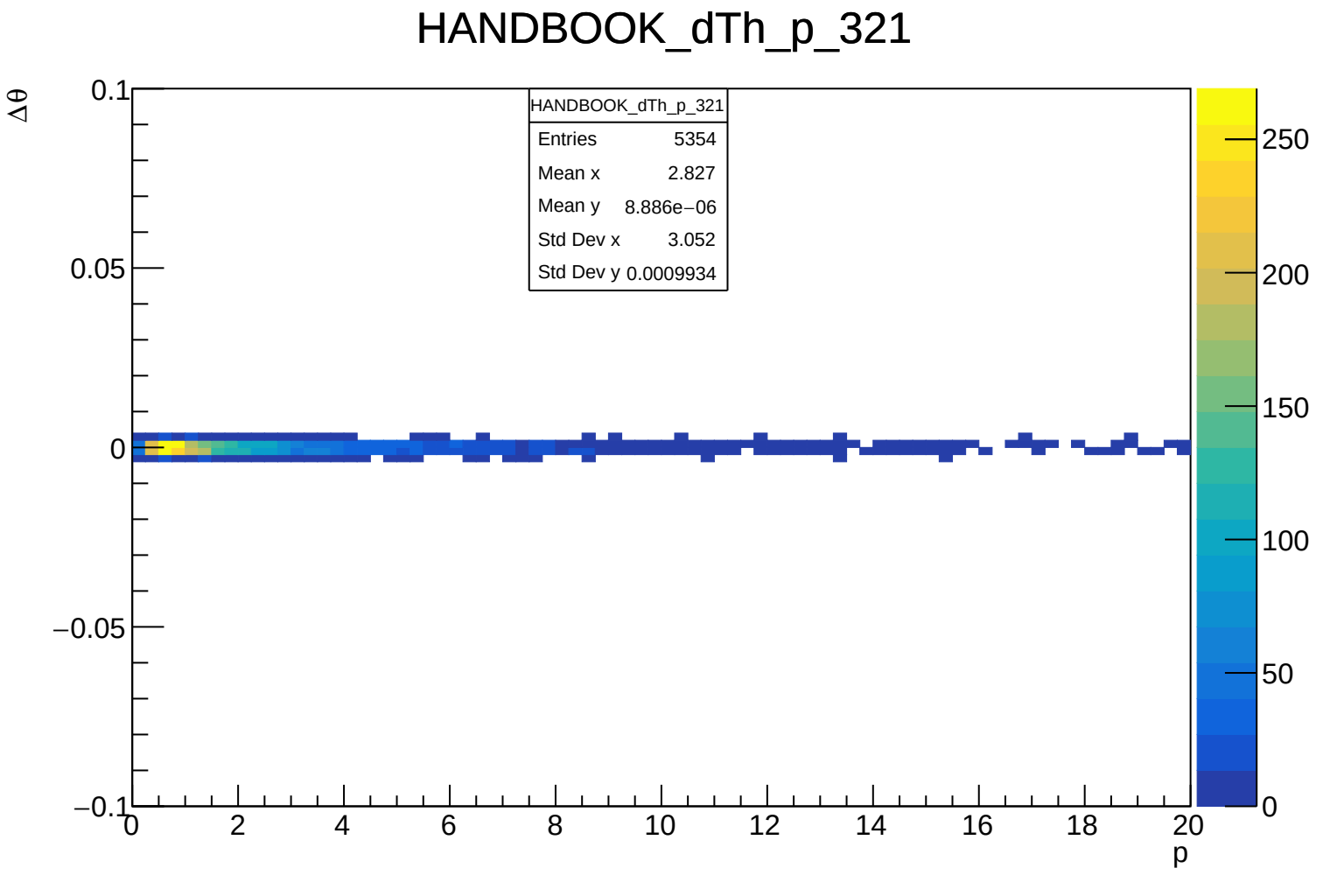

HANDBOOK_DelP_th_321
HANDBOOK_DelP_th_321
Entries 5354
Mean x 0.9997
Mean y 1.646e−05
Std Dev x 0.9819
Std Dev y 0.01332
Δ p/p
θ
0.1
0.05
0
−0.05
−0.1
0
0.5
1
1.5
2
2.5
3
25
20
15
10
5
0

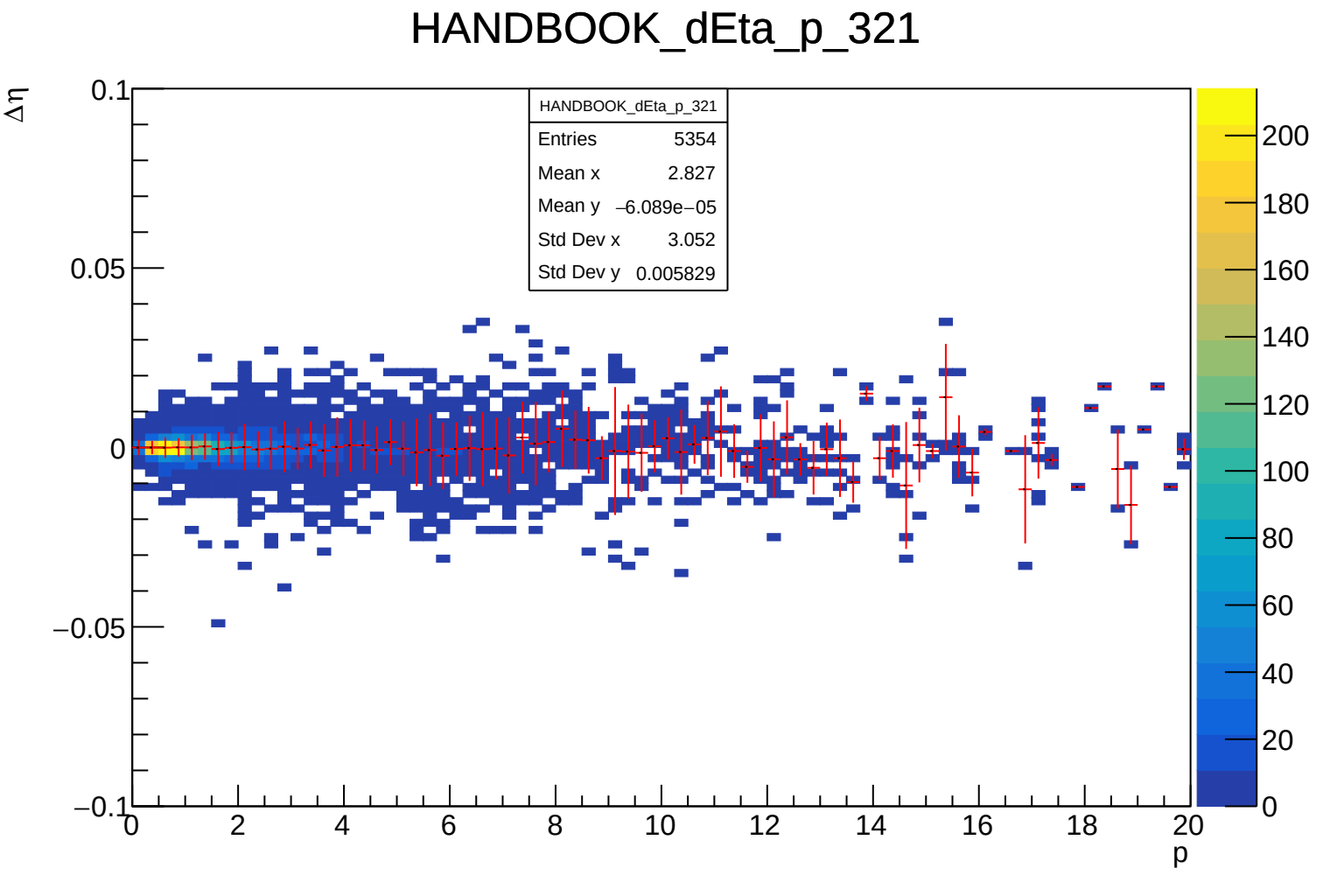

HANDBOOK_DelP_eta_321
HANDBOOK_DelP_eta_321
Entries 5354
Mean x 1.022
Mean y 1.646e−05
Std Dev x 1.692
Std Dev y 0.01332
Δ p/p
η
0.1
0.05
0
−0.05
−0.1
−5
−4
−3
−2
−1
0
1
2
3
4
5
22
20
18
16
14
12
10
8
6
4
2
0

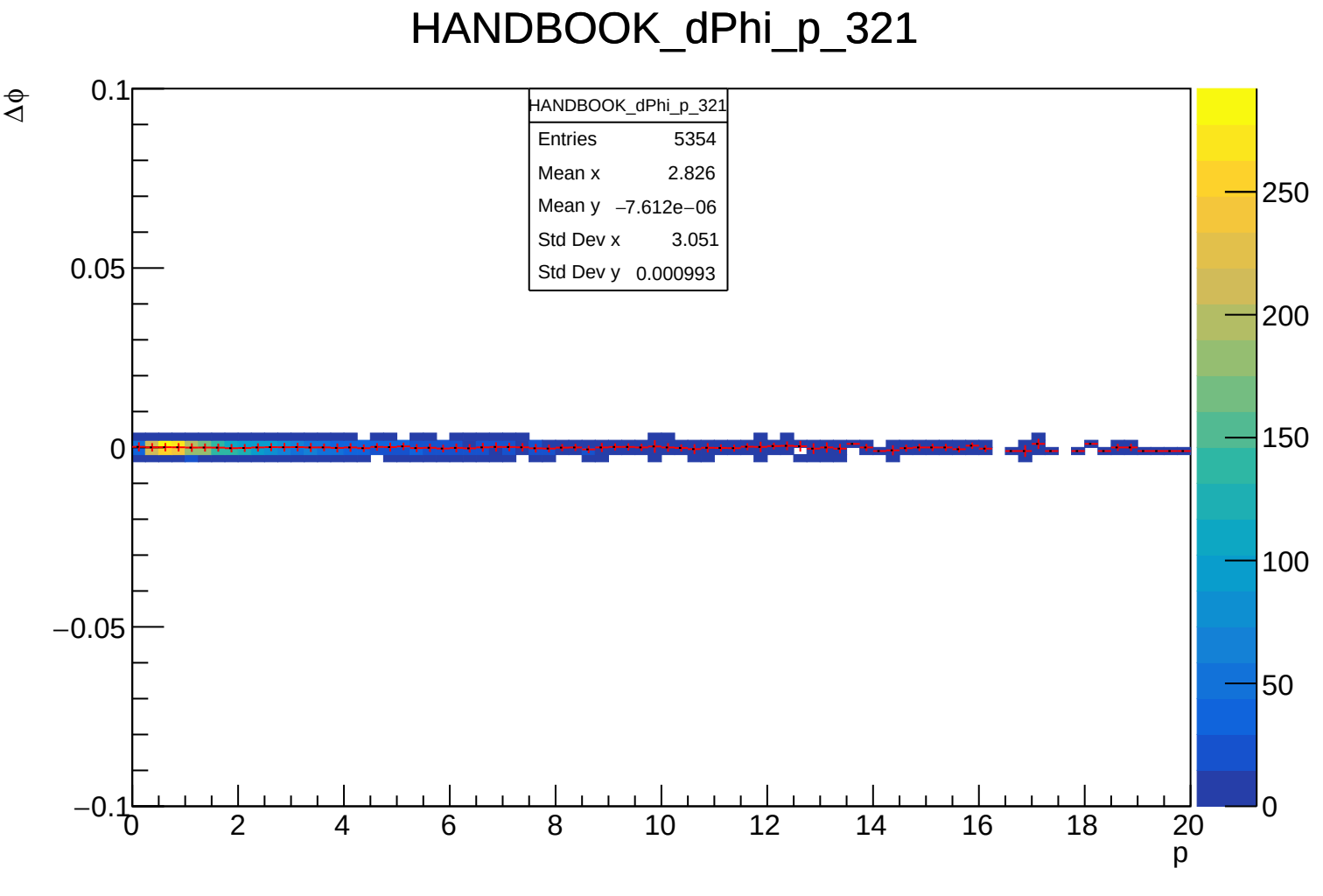

HANDBOOK_DelE_th_321
HANDBOOK_DelE_th_321
Entries 5354
Mean x 0.9596
Mean y −0.001159
Std Dev x 0.9942
Std Dev y 0.3684
Δ E/E
θ
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
0
0.5
1
1.5
2
2.5
3
40
35
30
25
20
15
10
5
0

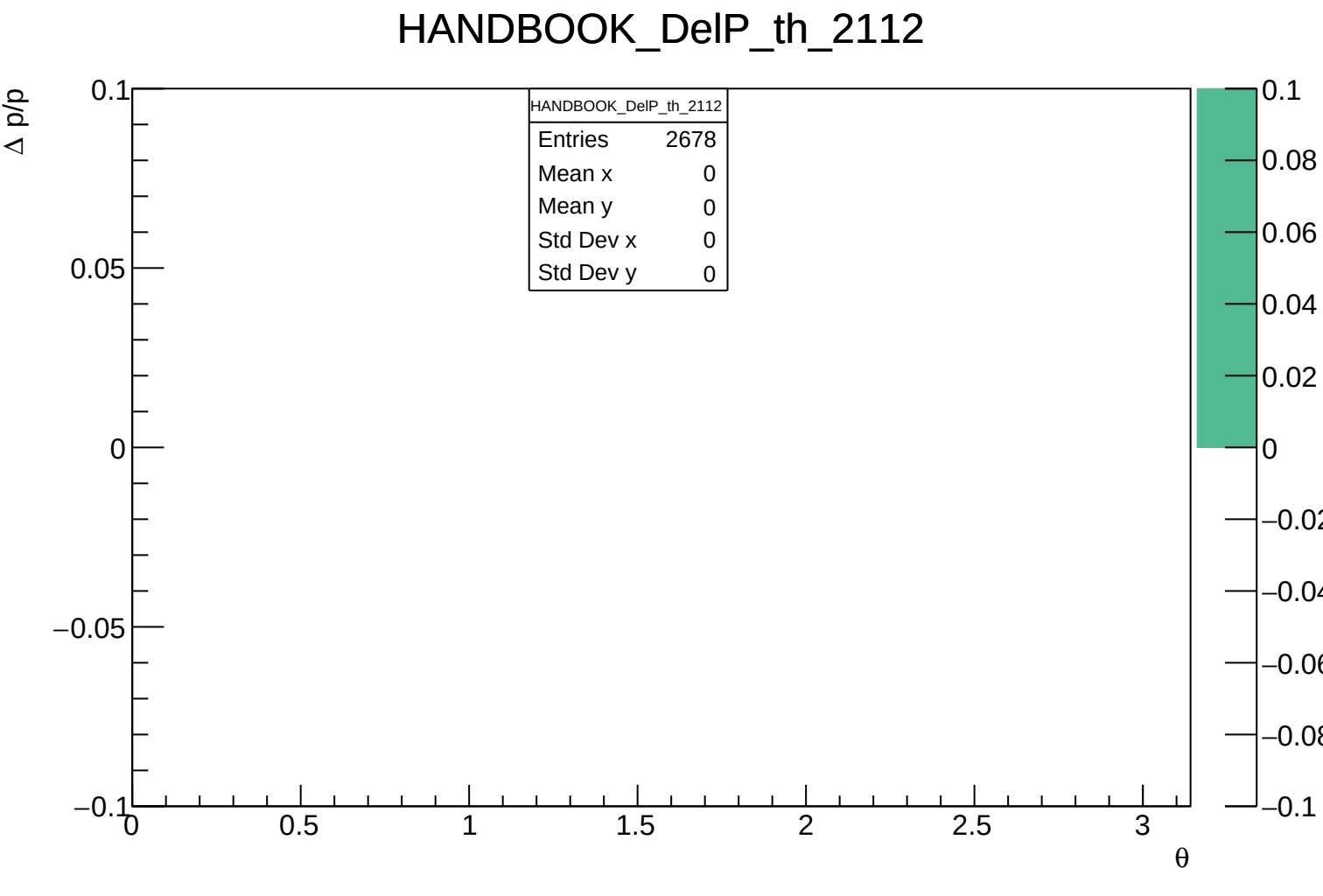

HANDBOOK_DelE_eta_321
HANDBOOK_DelE_eta_321
Entries 5354
Mean x 1.097
Mean y −0.001159
Std Dev x 1.723
Std Dev y 0.3684
Δ E/E
η
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−5
−4
−3
−2
−1
0
1
2
3
4
5
14
12
10
8
6
4
2
0

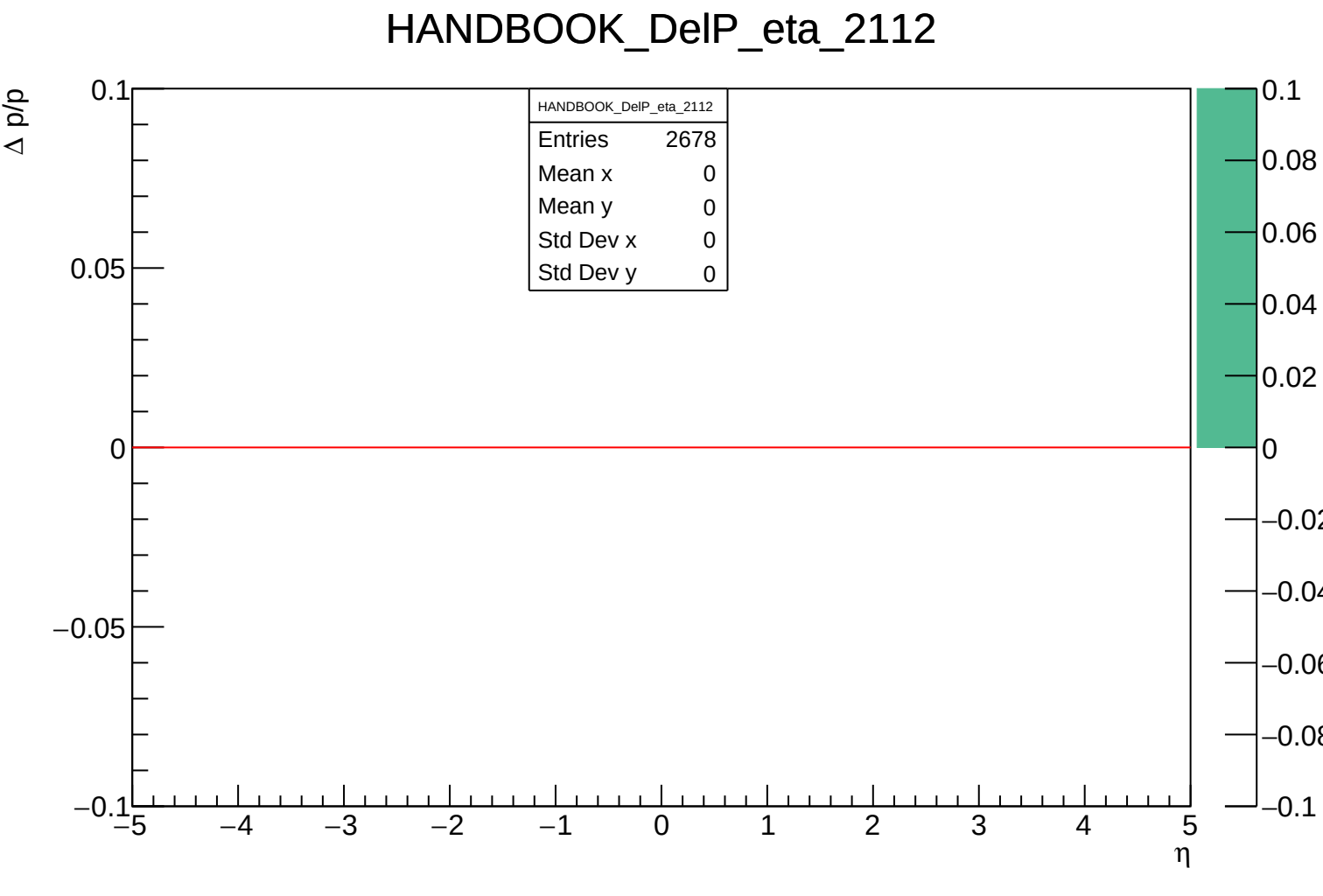

HANDBOOK_DelE_E_321
HANDBOOK_DelE_E_321
Entries 5354
Mean x 3.083
Mean y −0.001335
Std Dev x 3.064
Std Dev y 0.3712
Δ E/E
E
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
0
2
4
6
8
10
12
14
16
18
20
14
12
10
8
6
4
2
0

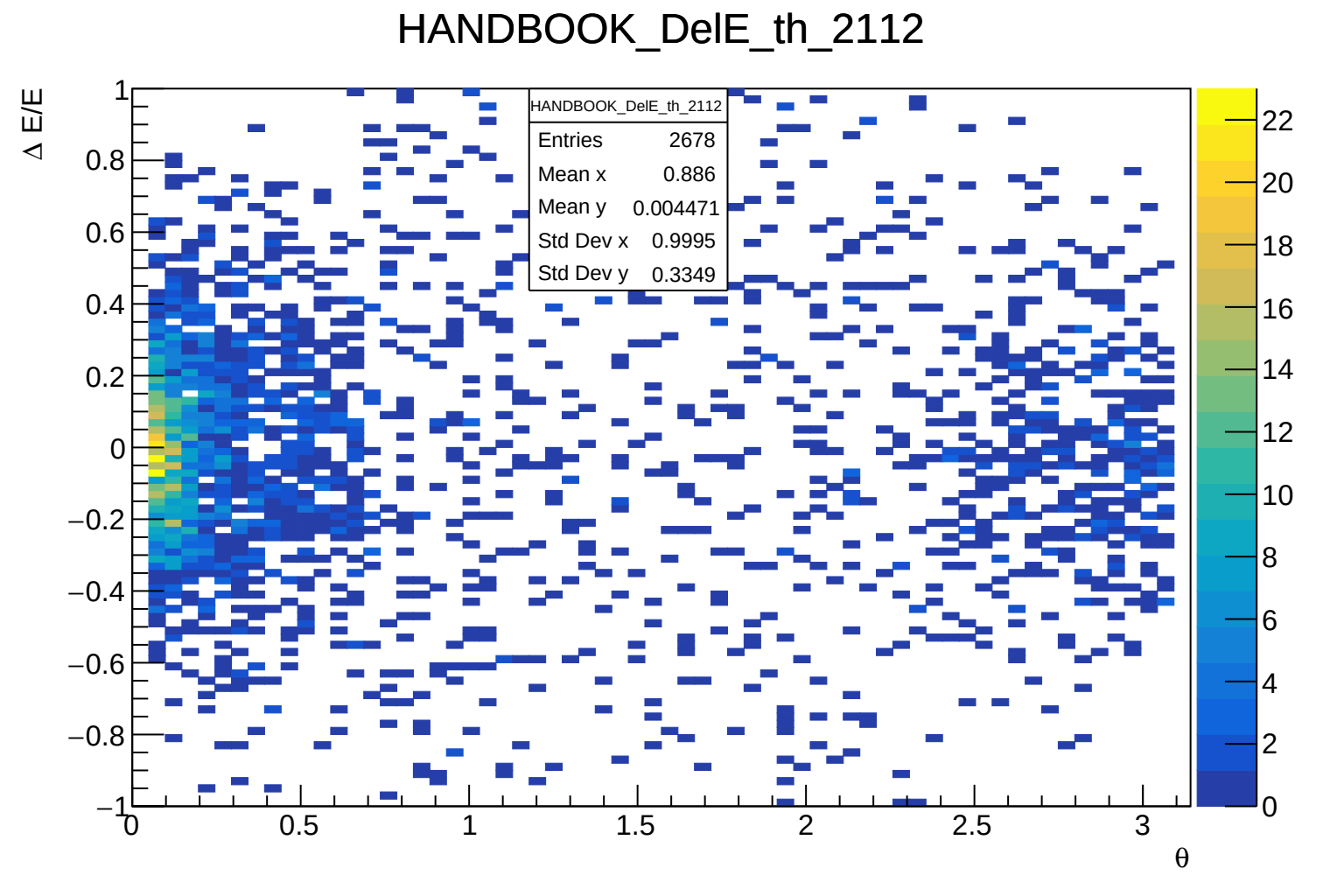

HANDBOOK_dTh_p_321
HANDBOOK_dTh_p_321
Entries 5354
Mean x 2.827
Mean y 8.886e−06
Std Dev x 3.052
Std Dev y 0.0009934
Δθ
0.1
0.05
0
−0.05
−0.1
0
2
4
6
8
10
12
14
16
18
20
p
250
200
150
100
50
0

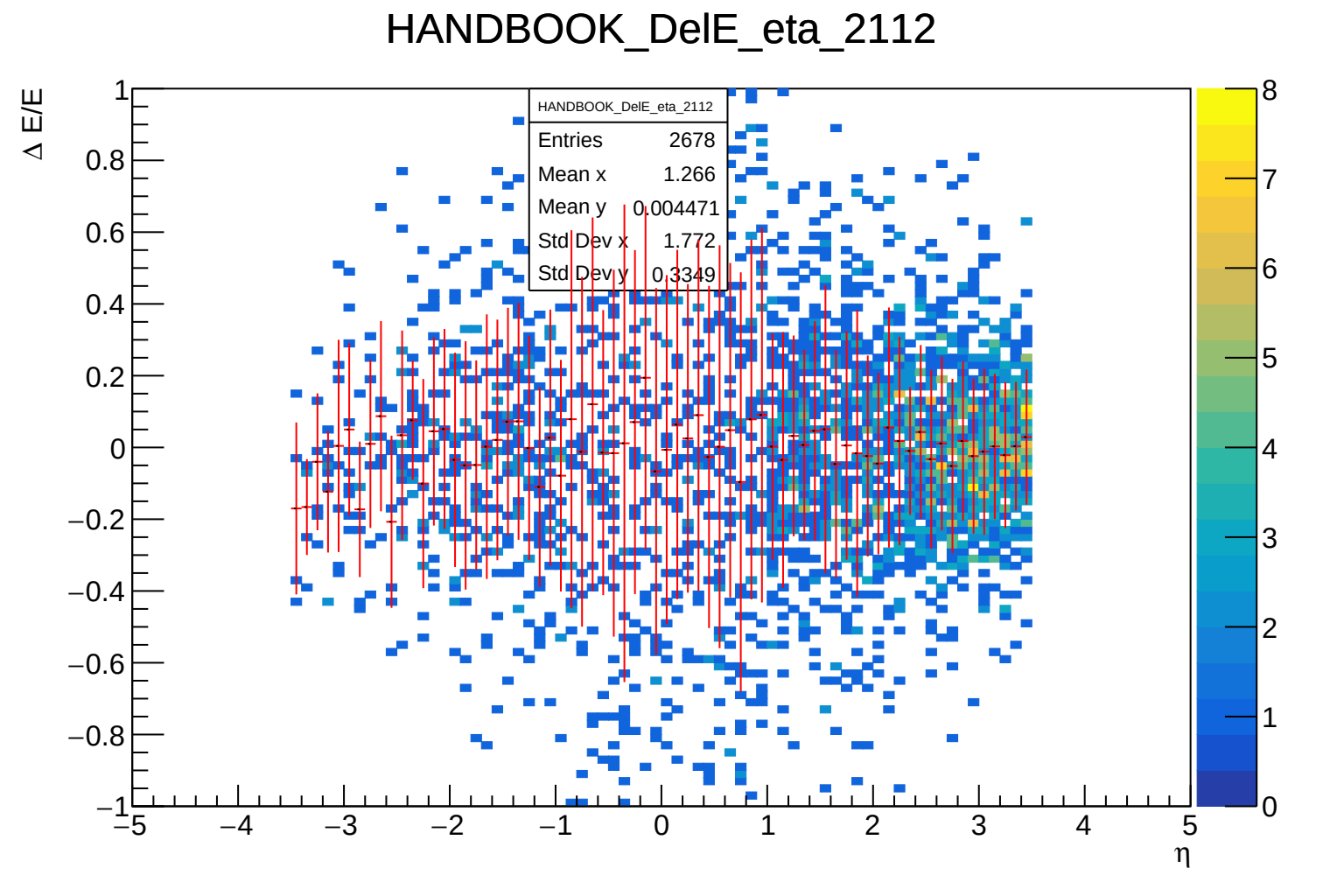

HANDBOOK_dEta_p_321
HANDBOOK_dEta_p_321
Entries 5354
Mean x 2.827
Mean y −6.089e−05
Std Dev x 3.052
Std Dev y 0.005829
Δη
p
0.1
0.05
0
−0.05
−0.1
0
2
4
6
8
10
12
14
16
18
20
200
180
160
140
120
100
80
60
40
20
0

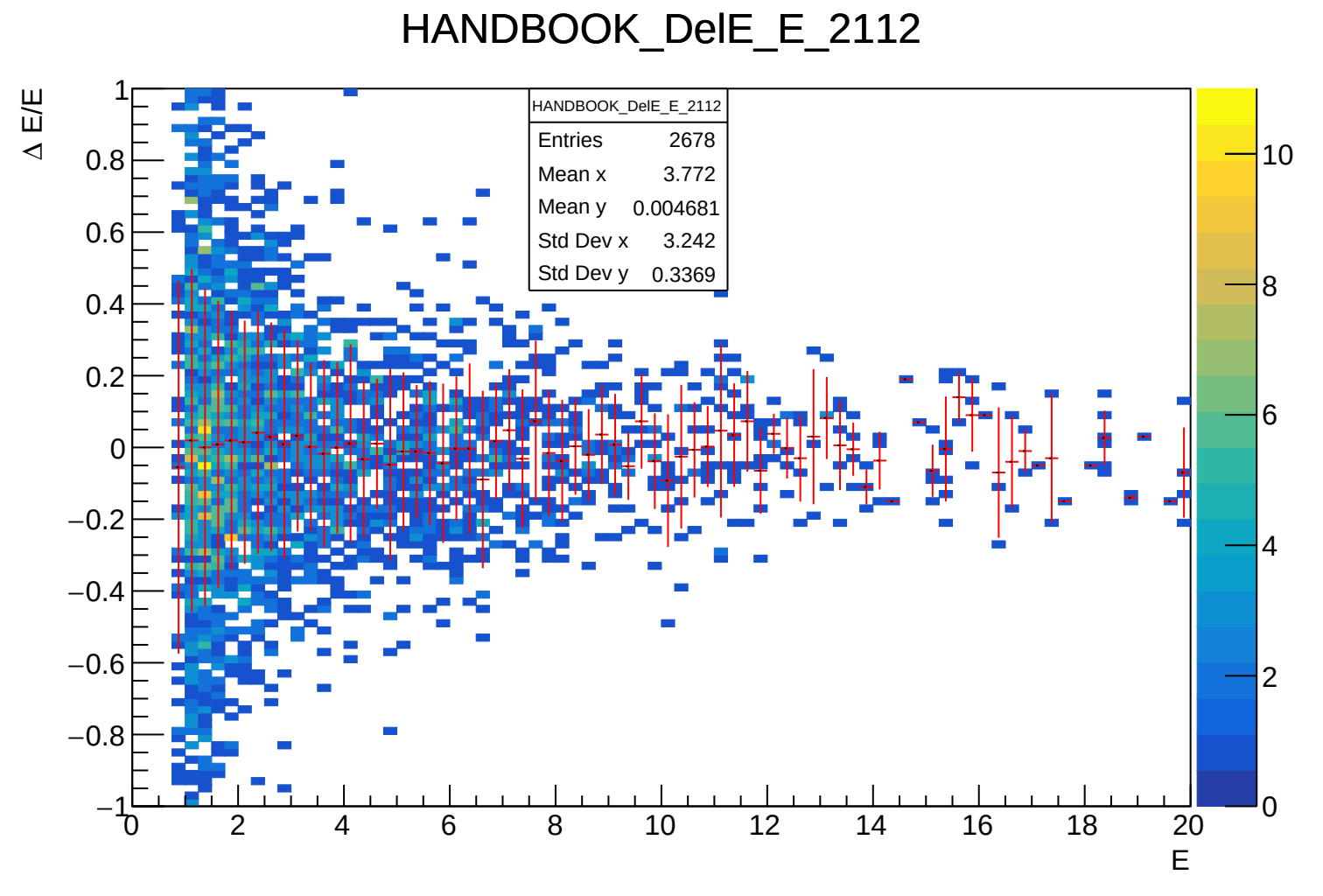

HANDBOOK_dPhi_p_321
HANDBOOK_dPhi_p_321
Entries 5354
Mean x 2.826
Mean y −7.612e−06
Std Dev x 3.051
Std Dev y 0.000993
Δϕ
0.1
0.05
0
−0.05
−0.1
0
2
4
6
8
10
12
14
16
18
20
p
250
200
150
100
50
0

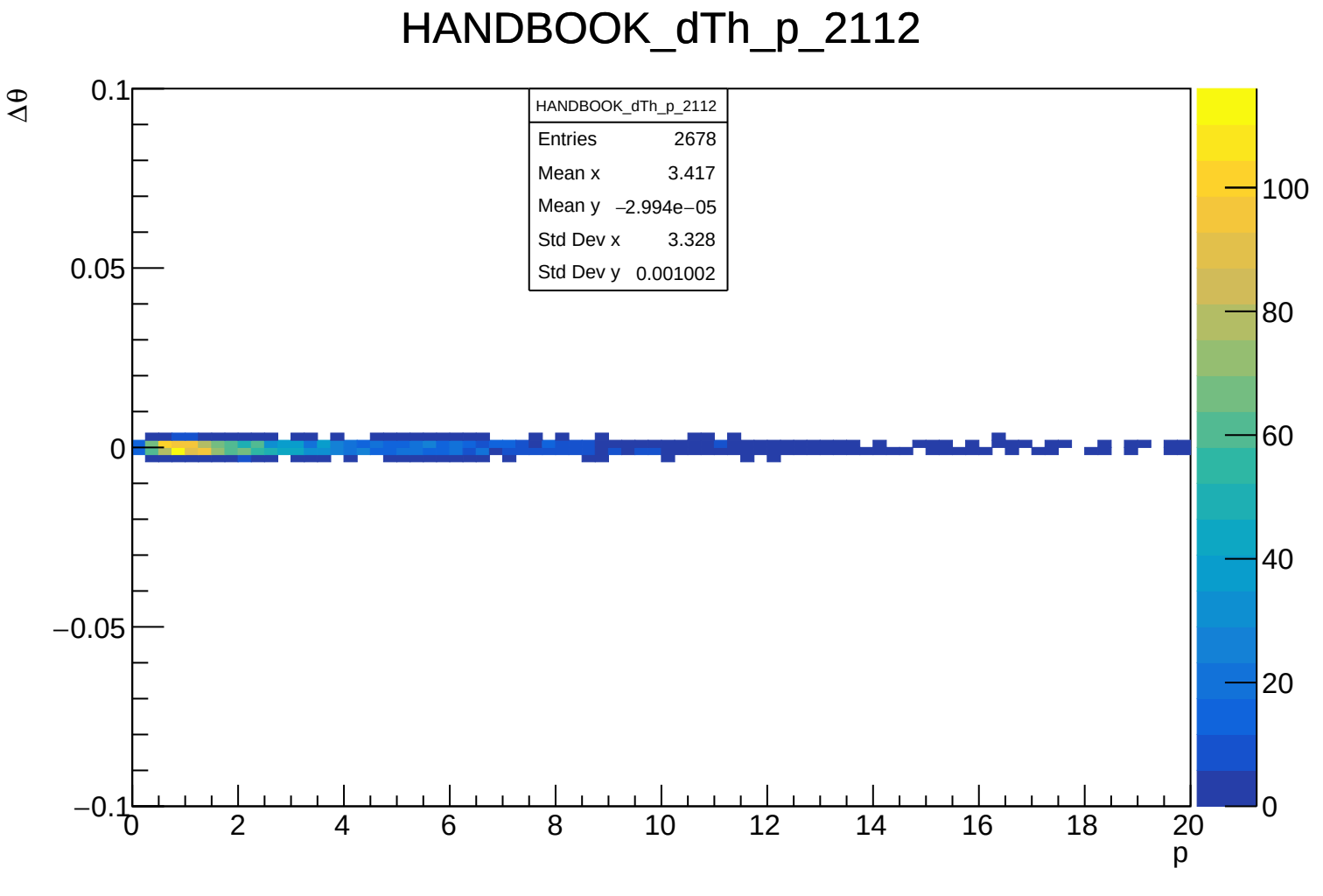

HANDBOOK_DelP_th_2112
HANDBOOK_DelP_th_2112
Entries 2678
Mean x 0
Mean y 0
Std Dev x 0
Std Dev y 0
Δ p/p
θ
0.1
0.05
0
−0.05
−0.1
0
0.5
1
1.5
2
2.5
3
0.08
0.06
0.04
0.02
−0.02
−0.04
−0.06
−0.08

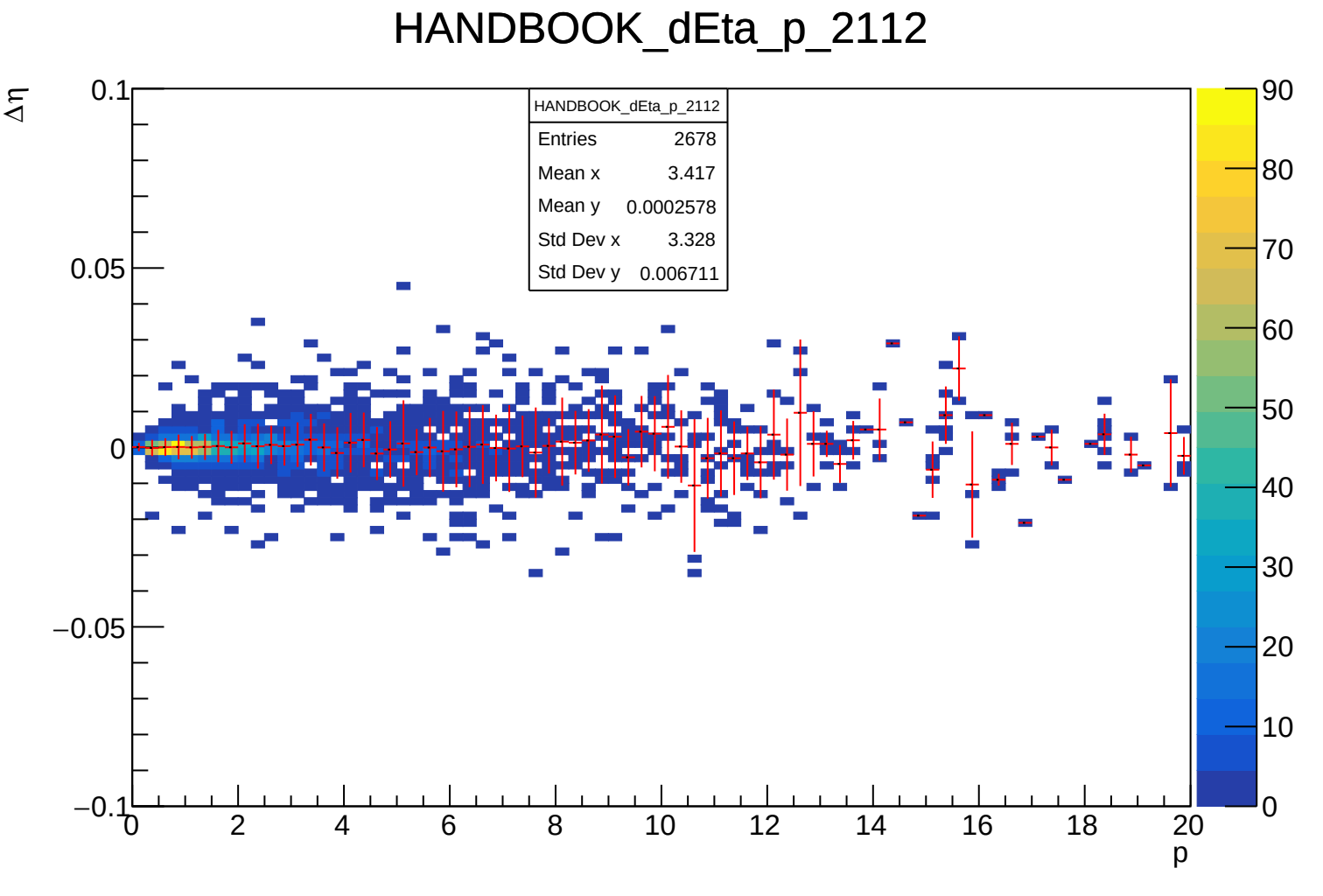

HANDBOOK_DelP_eta_2112
HANDBOOK_DelP_eta_2112
Entries 2678
Mean x 0
Mean y 0
Std Dev x 0
Std Dev y 0
Δ p/p
η
0.1
0.05
0
−0.05
−0.1
−5
−4
−3
−2
−1
0
1
2
3
4
5
0.08
0.06
0.04
0.02
−0.02
−0.04
−0.06
−0.08

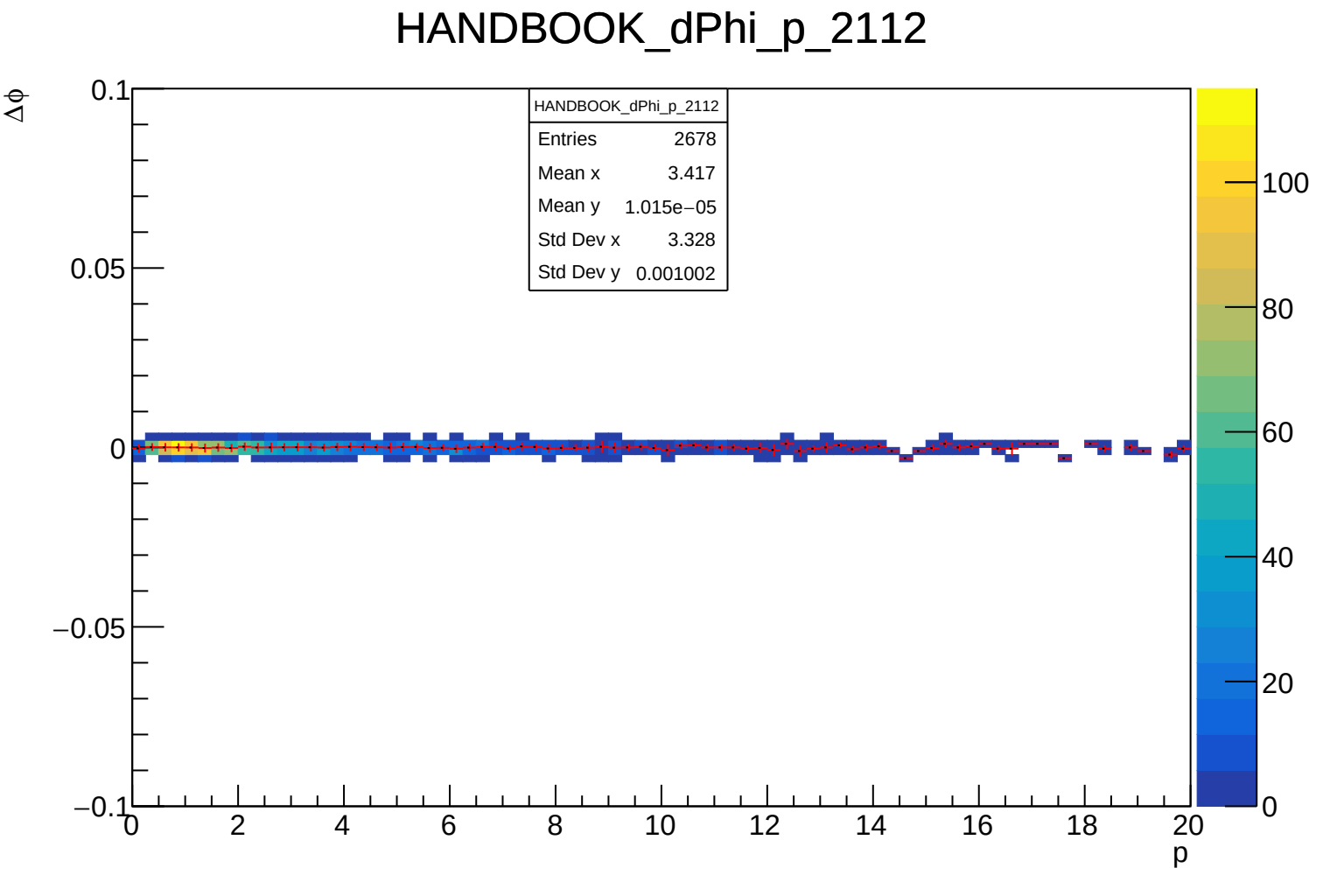

HANDBOOK_DelE_th_2112
HANDBOOK_DelE_th_2112
Entries 2678
Mean x 0.886
Mean y 0.004471
Std Dev x 0.9995
Std Dev y 0.3349
Δ E/E
θ
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
0
0.5
1
1.5
2
2.5
3
22
20
18
16
14
12
10
8
6
4
2
0

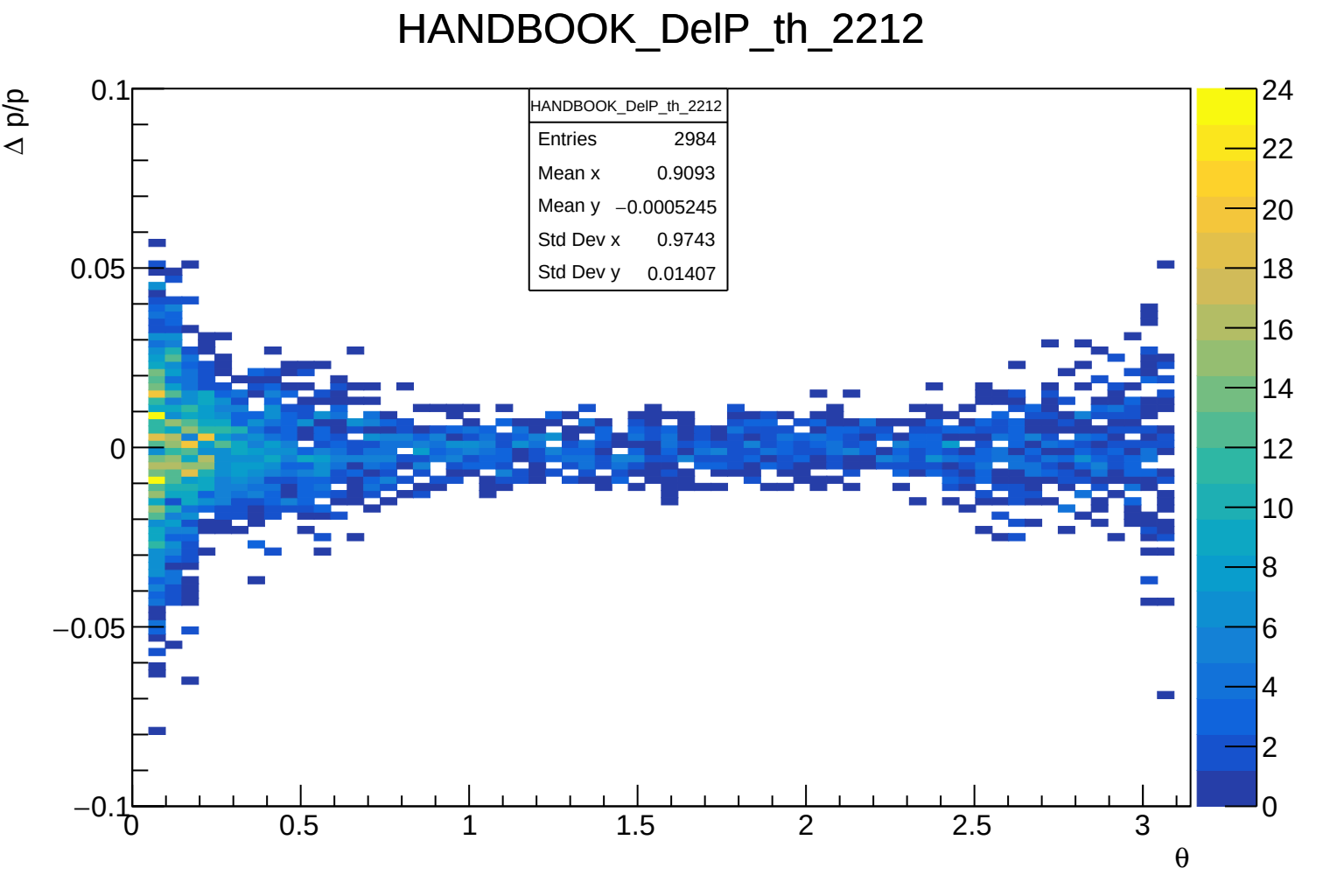

HANDBOOK_DelE_eta_2112
HANDBOOK_DelE_eta_2112
Entries 2678
Mean x 1.266
Mean y 0.004471
Std Dev x 1.772
Std Dev y 0.3349
Δ E/E
η

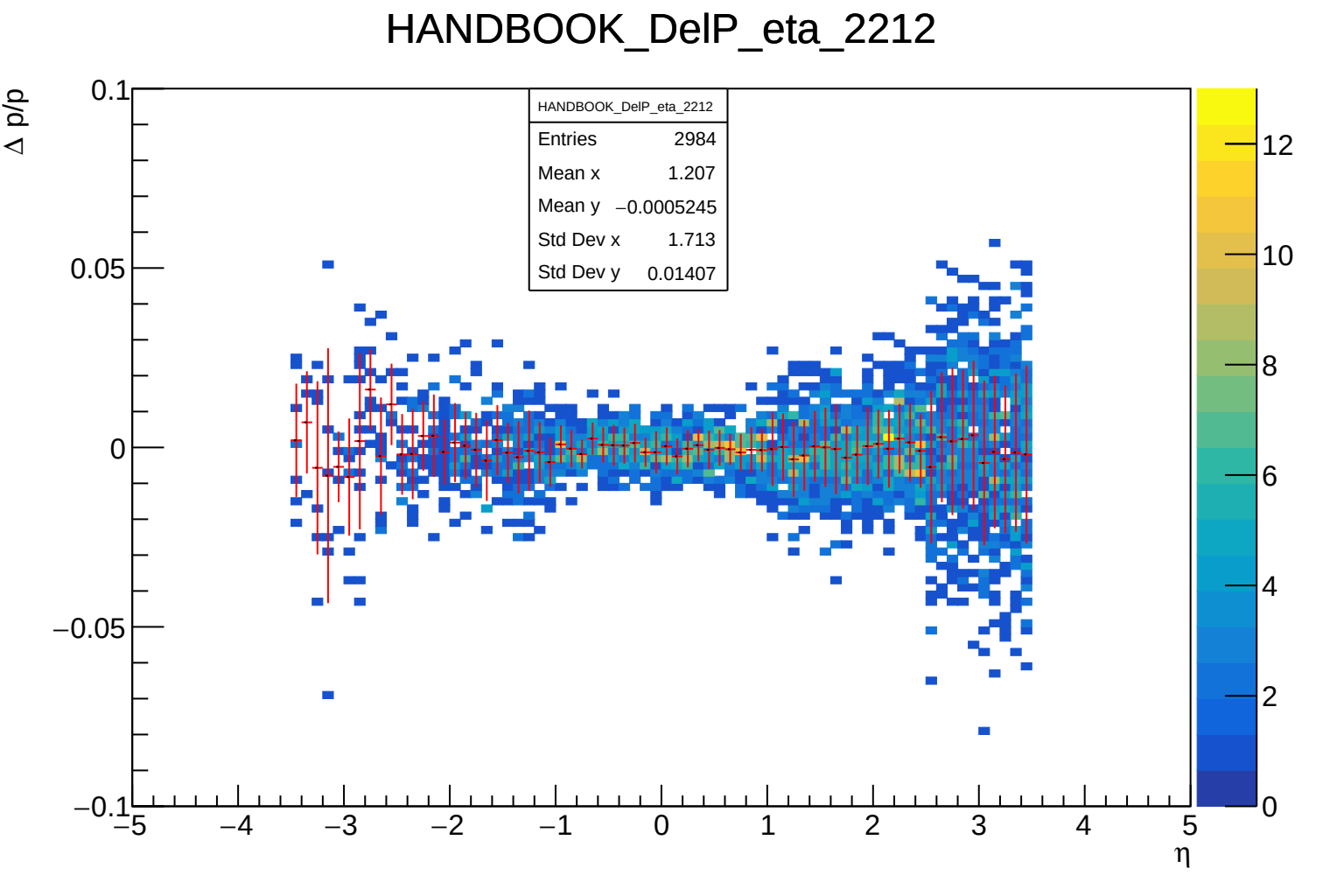

HANDBOOK_DelE_E_2112
HANDBOOK_DelE_E_2112
Entries 2678
Mean x 3.772
Mean y 0.004681
Std Dev x 3.242
Std Dev y 0.3369
Δ E/E
E
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
0
2
4
6
8
10
12
14
16
18
20
10
8
6
4
2
0

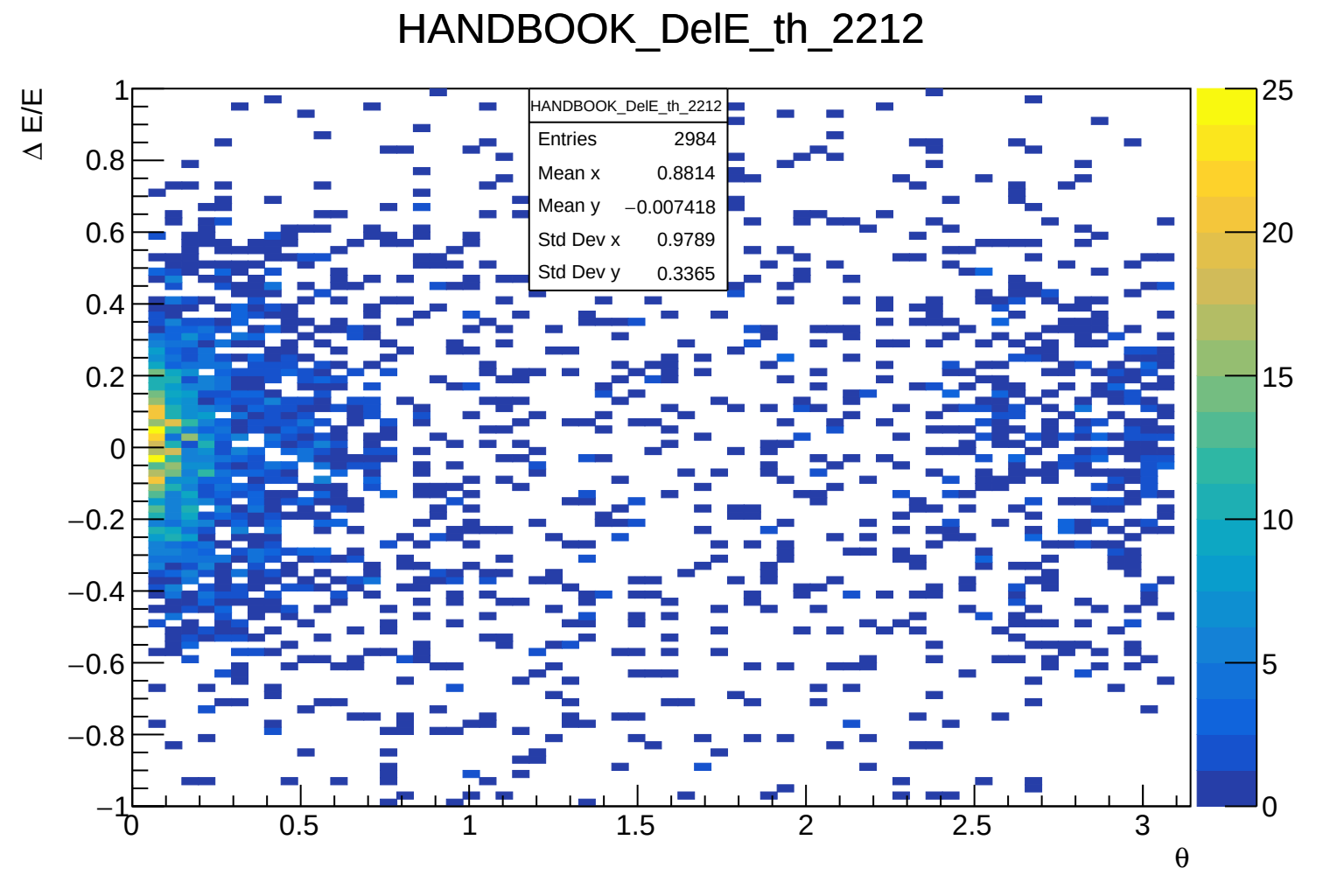

HANDBOOK_dTh_p_2112
HANDBOOK_dTh_p_2112
Entries 2678
Mean x 3.417
Mean y −2.994e−05
Std Dev x 3.328
Std Dev y 0.001002
Δθ
0.1
0.05
0
−0.05
−0.1
0
2
4
6
8
10
12
14
16
18
20
p
100
80
60
40
20
0

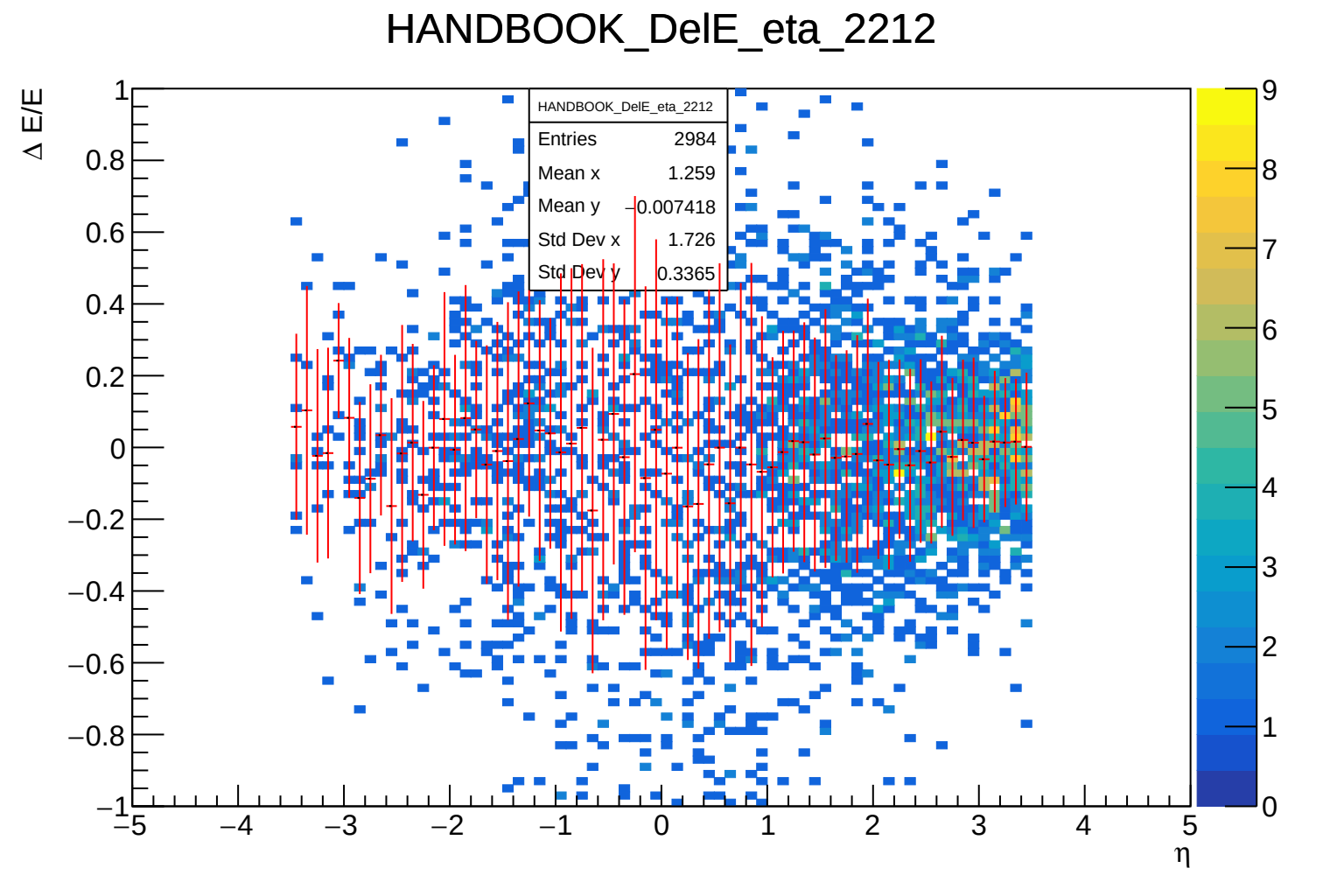

HANDBOOK_dEta_p_2112
HANDBOOK_dEta_p_2112
Entries 2678
Mean x 3.417
Mean y 0.0002578
Std Dev x 3.328
Std Dev y 0.006711
Δη
0.1
0.05
0
−0.05
−0.1
0
2
4
6
8
10
12
14
16
18
20
p
90
80
70
60
50
40
30
20
10
0

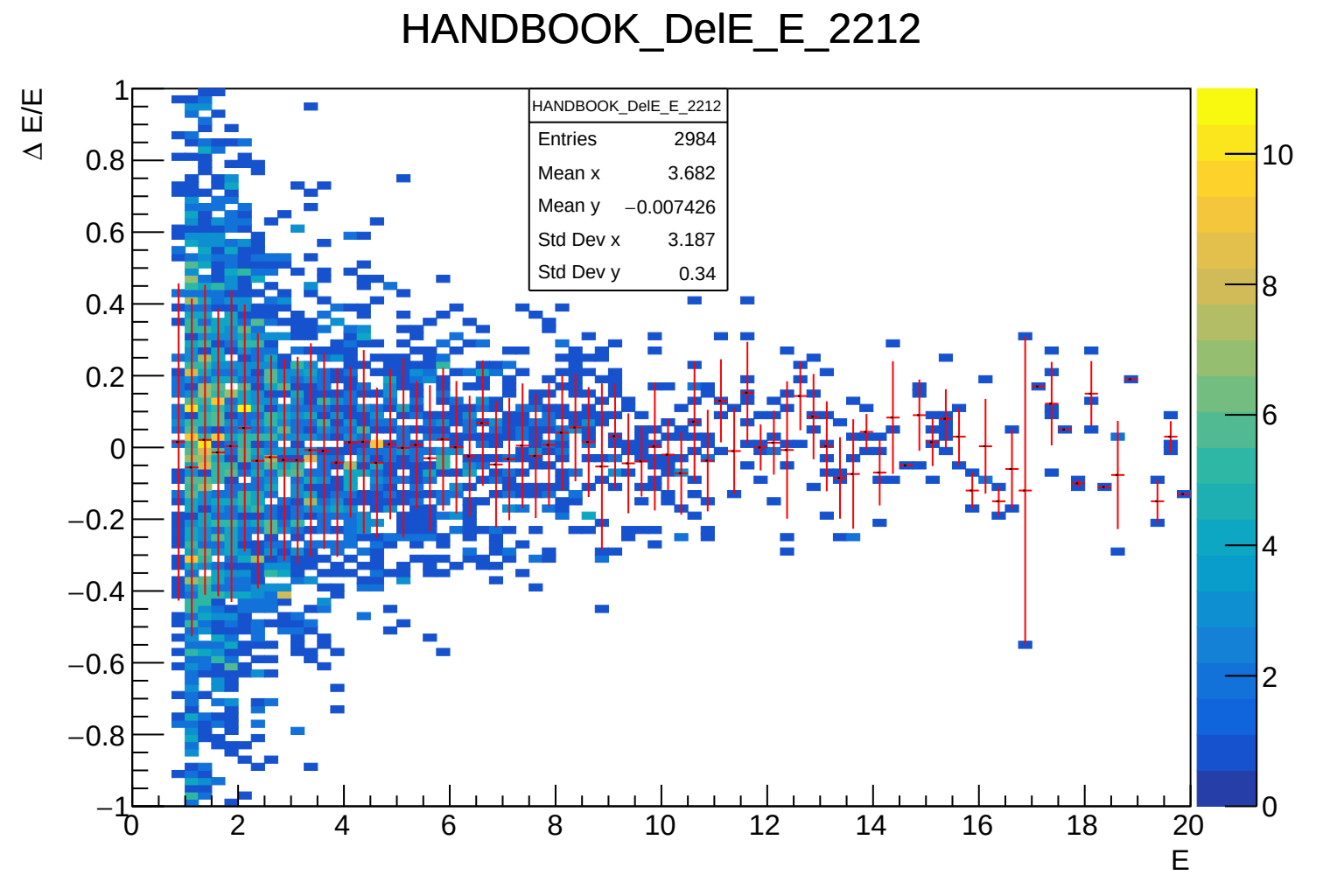

HANDBOOK_dPhi_p_2112
HANDBOOK_dPhi_p_2112
Entries 2678
Mean x 3.417
Mean y 1.015e−05
Std Dev x 3.328
Std Dev y 0.001002
Δϕ
0.1
0.05
0
−0.05
−0.1
0
2
4
6
8
10
12
14
16
18
20
p
100
80
60
40
20
0


HANDBOOK_DelP_th_2212
HANDBOOK_DelP_th_2212
Entries 2984
Mean x 0.9093
Mean y −0.0005245
Std Dev x 0.9743
Std Dev y 0.01407
Δ p/p
θ
0.1
0.05
0
−0.05
−0.1
0
0.5
1
1.5
2
2.5
3
24
22
20
18
16
14
12
10
8
6
4
2
0


HANDBOOK_DelP_eta_2212
HANDBOOK_DelP_eta_2212
Entries 2984
Mean x 1.207
Mean y −0.0005245
Std Dev x 1.713
Std Dev y 0.01407
Δ p/p
η
0.1
0.05
0
−0.05
−0.1
−5
−4
−3
−2
−1
0
1
2
3
4
5
12
10
8
6
4
2
0


HANDBOOK_DelE_th_2212
HANDBOOK_DelE_th_2212
Entries 2984
Mean x 0.8814
Mean y −0.007418
Std Dev x 0.9789
Std Dev y 0.3365
Δ E/E
θ
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
0
0.5
1
1.5
2
2.5
3
25
20
15
10
5
0


HANDBOOK_DelE_eta_2212
HANDBOOK_DelE_eta_2212
Entries 2984
Mean x 1.259
Mean y −0.007418
Std Dev x 1.726
Std Dev y 0.3365
Δ E/E
η
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−5
−4
−3
−2
−1
0
1
2
3
4
5
9
8
7
6
5
4
3
2
1
0


HANDBOOK_DelE_E_2212
HANDBOOK_DelE_E_2212
Entries 2984
Mean x 3.682
Mean y −0.007426
Std Dev x 3.187
Std Dev y 0.34
Δ E/E
E
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
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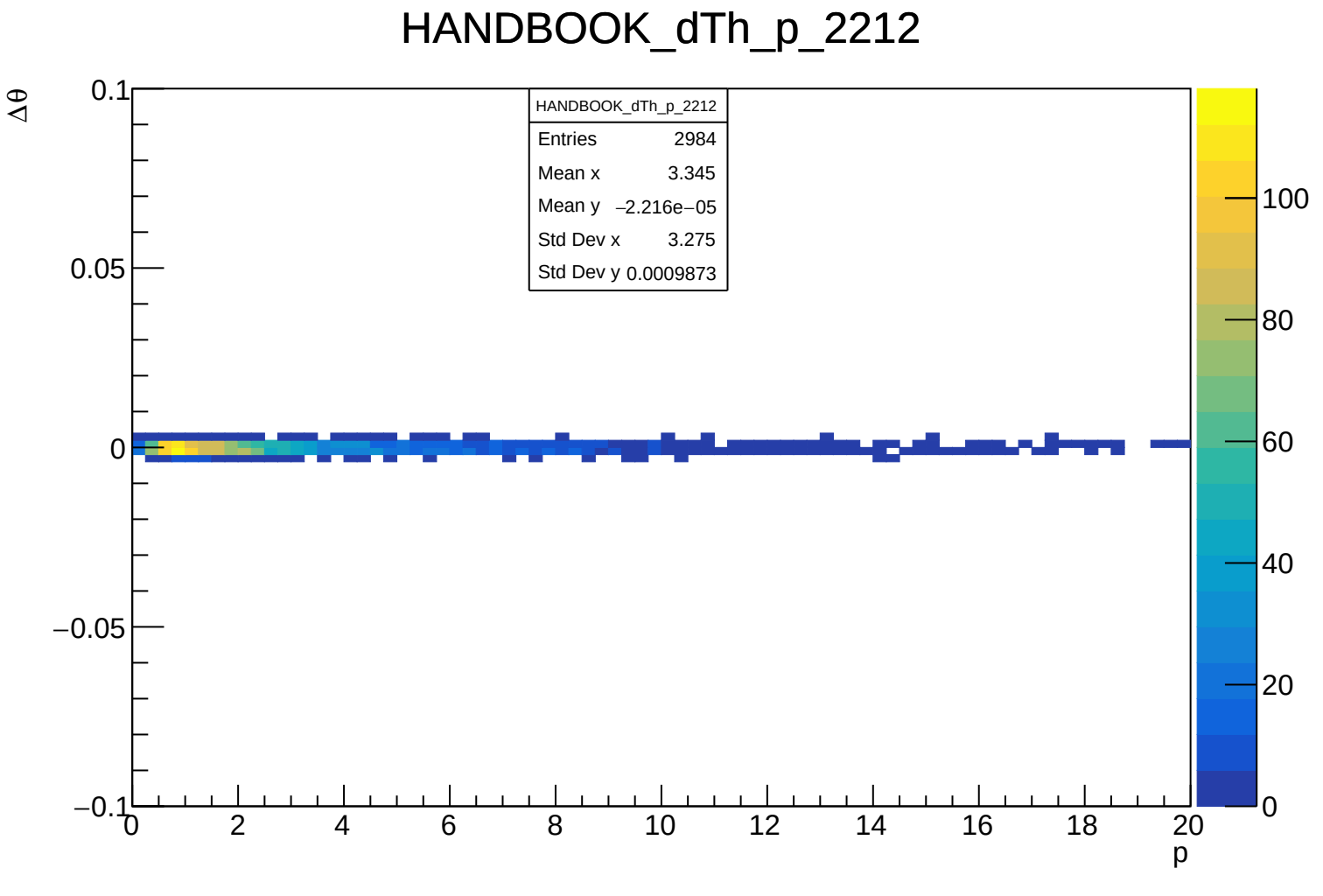
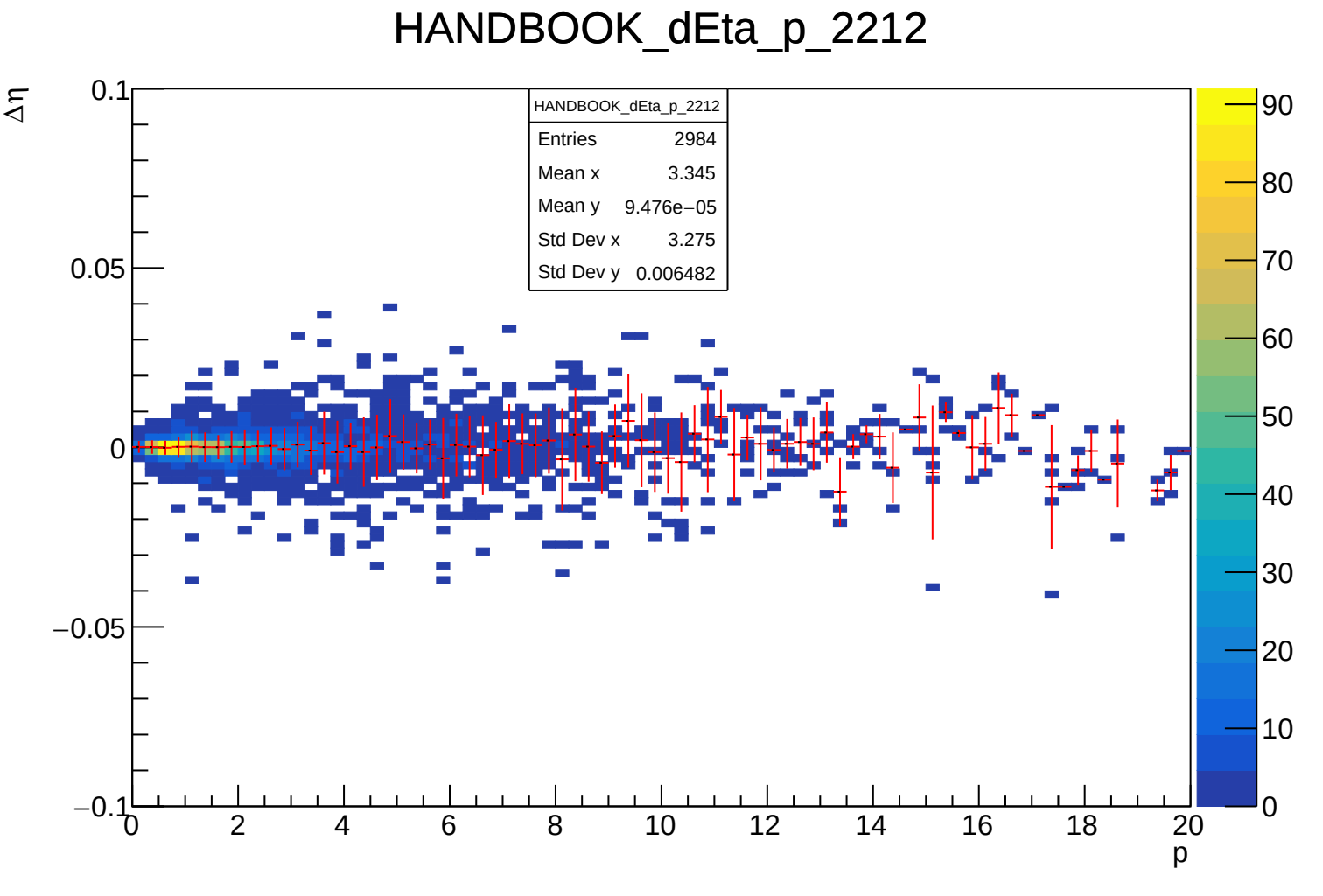
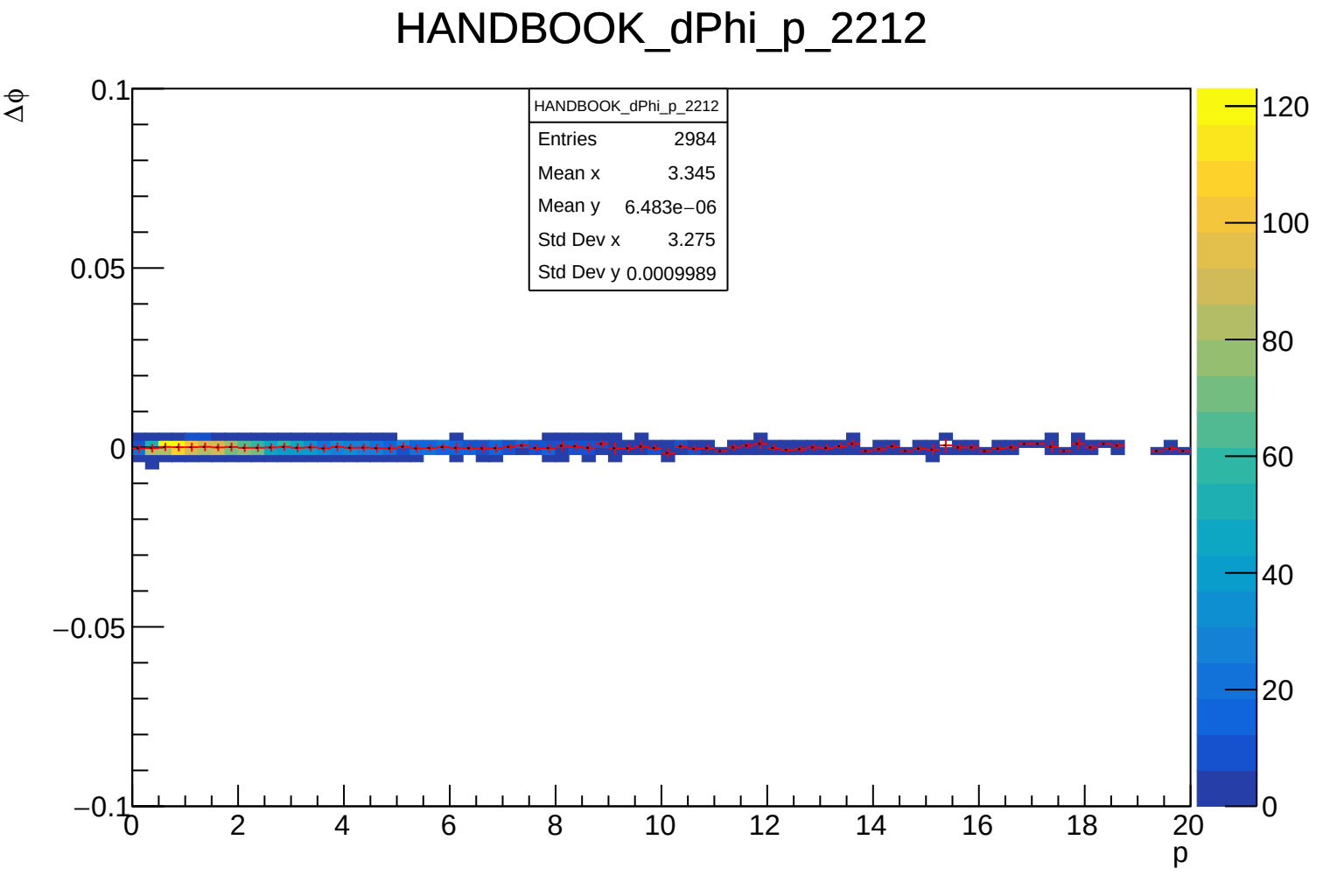
2
4
6
8
10
12
14
16
18
20
10
8
6
4
2
0


HANDBOOK_dTh_p_2212
HANDBOOK_dTh_p_2212
Entries 2984
Mean x 3.345
Mean y −2.216e−05
Std Dev x 3.275
Std Dev y 0.0009873
Δθ
p
0.1
0.05
0
−0.05
−0.1
0
2
4
6
8
10
12
14
16
18
20
100
80
60
40
20
0


HANDBOOK_dEta_p_2212
HANDBOOK_dEta_p_2212
Entries 2984
Mean x 3.345
Mean y 9.476e−05
Std Dev x 3.275
Std Dev y 0.006482
Δη
p
0.1
0.05
0
−0.05
−0.1
0
2
4
6
8
10
12
14
16
18
20
90
80
70
60
50
40
30
20
10
0


HANDBOOK_dPhi_p_2212
HANDBOOK_dPhi_p_2212
Entries 2984
Mean x 3.345
Mean y 6.483e−06
Std Dev x 3.275
Std Dev y 0.0009989
Δϕ
0.1
0.05
0
−0.05
−0.1
0
2
4
6
8
10
12
14
16
18
20
p
120
100
80
60
40
20
0