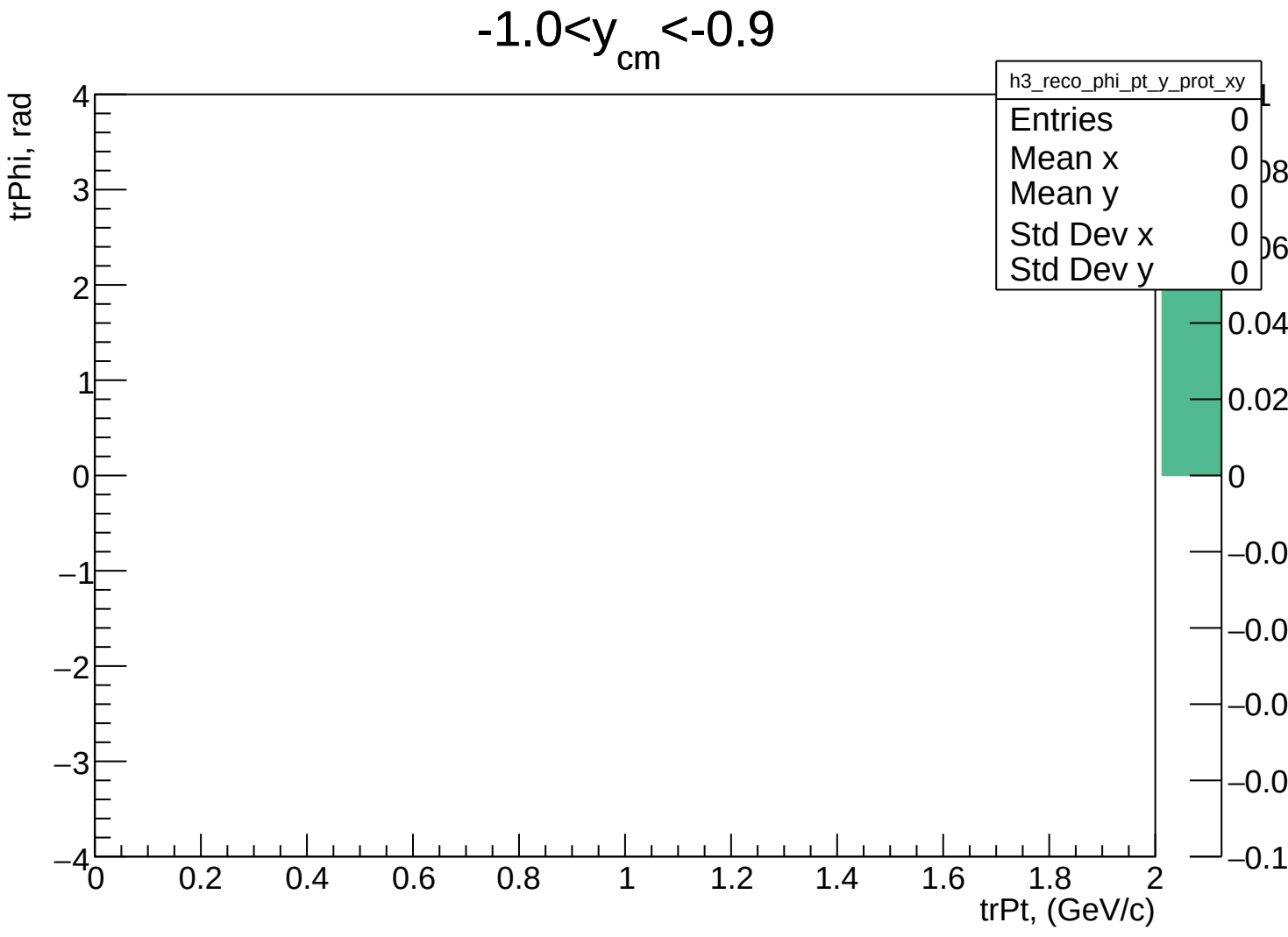
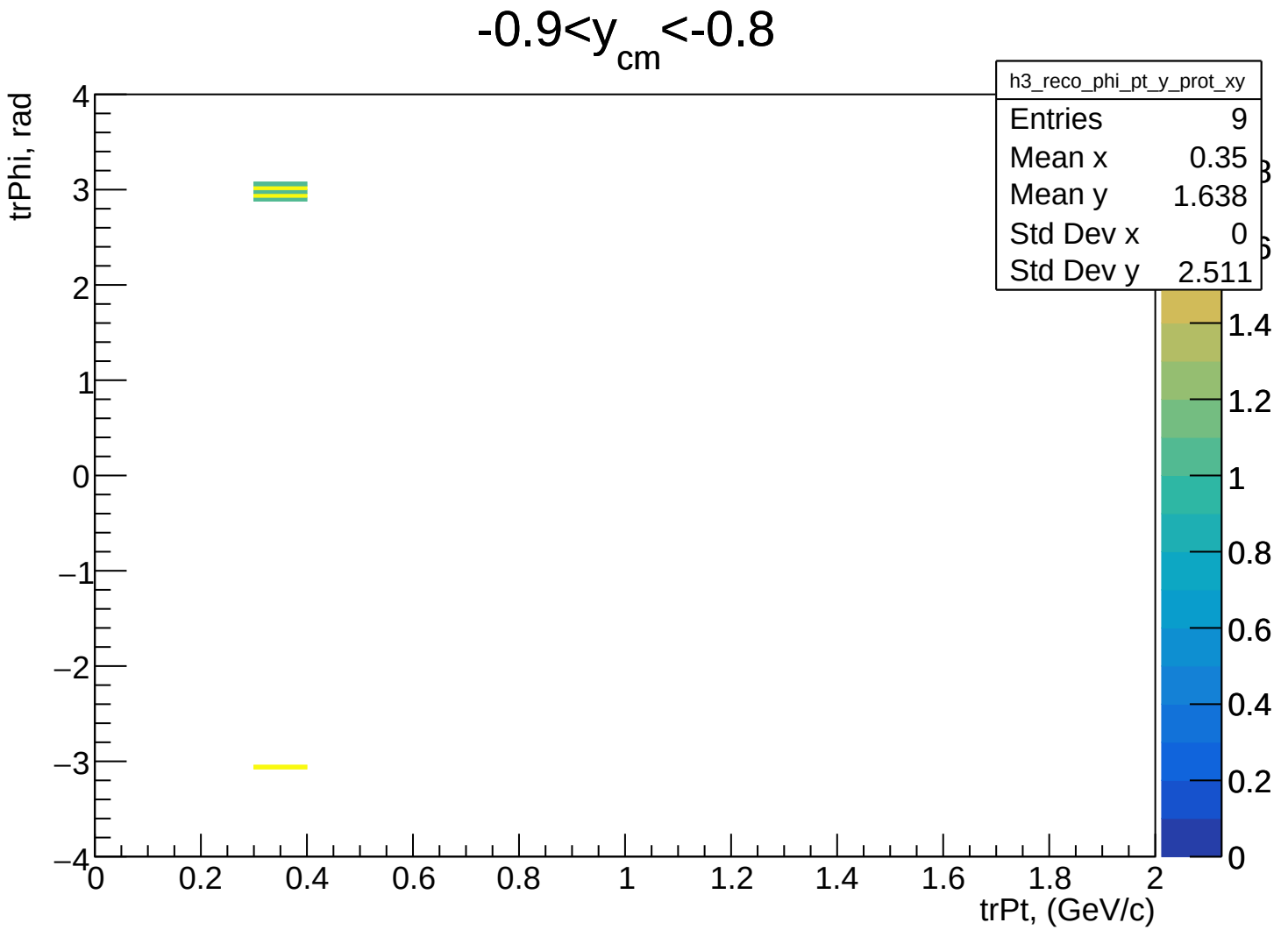
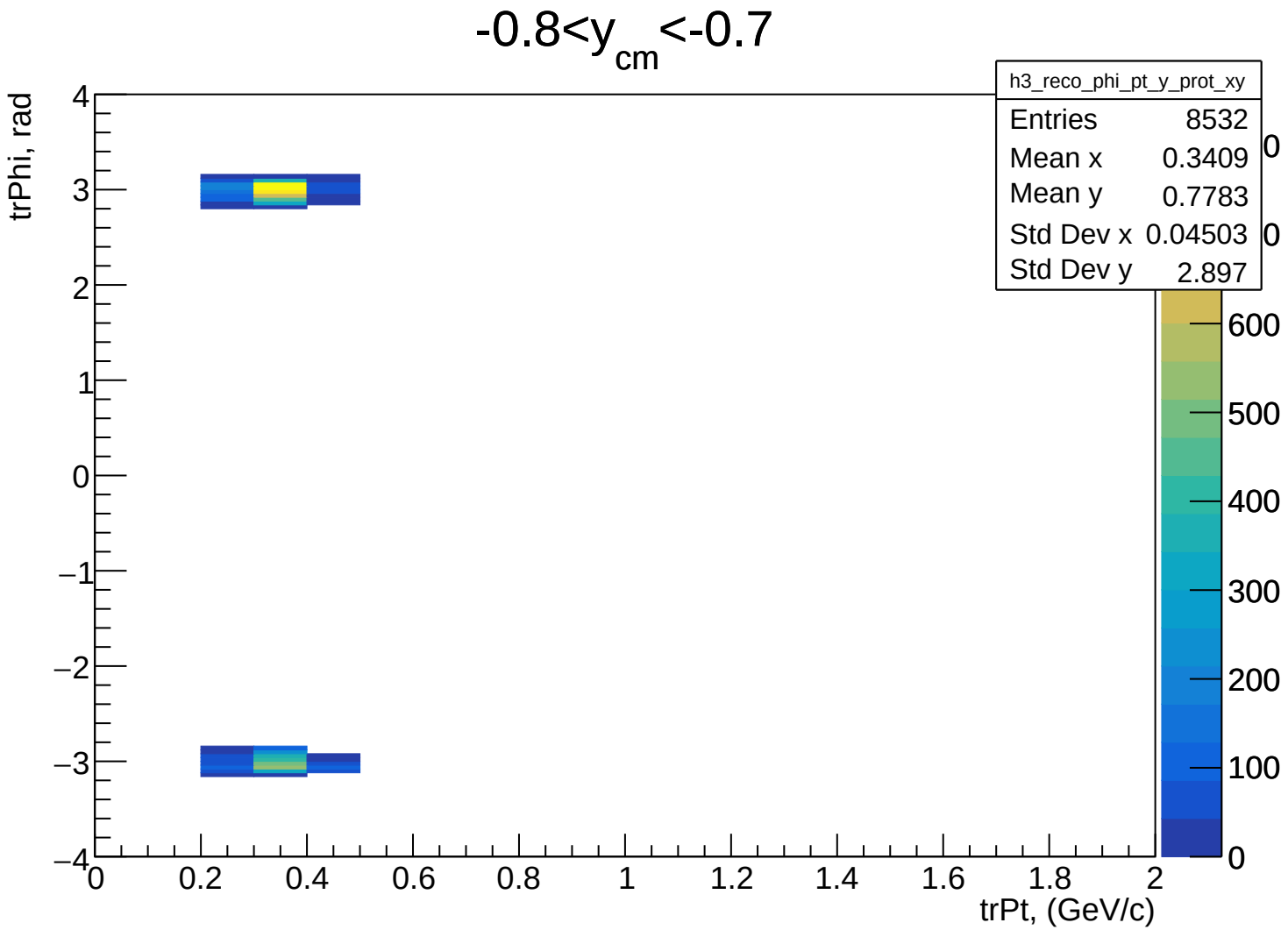
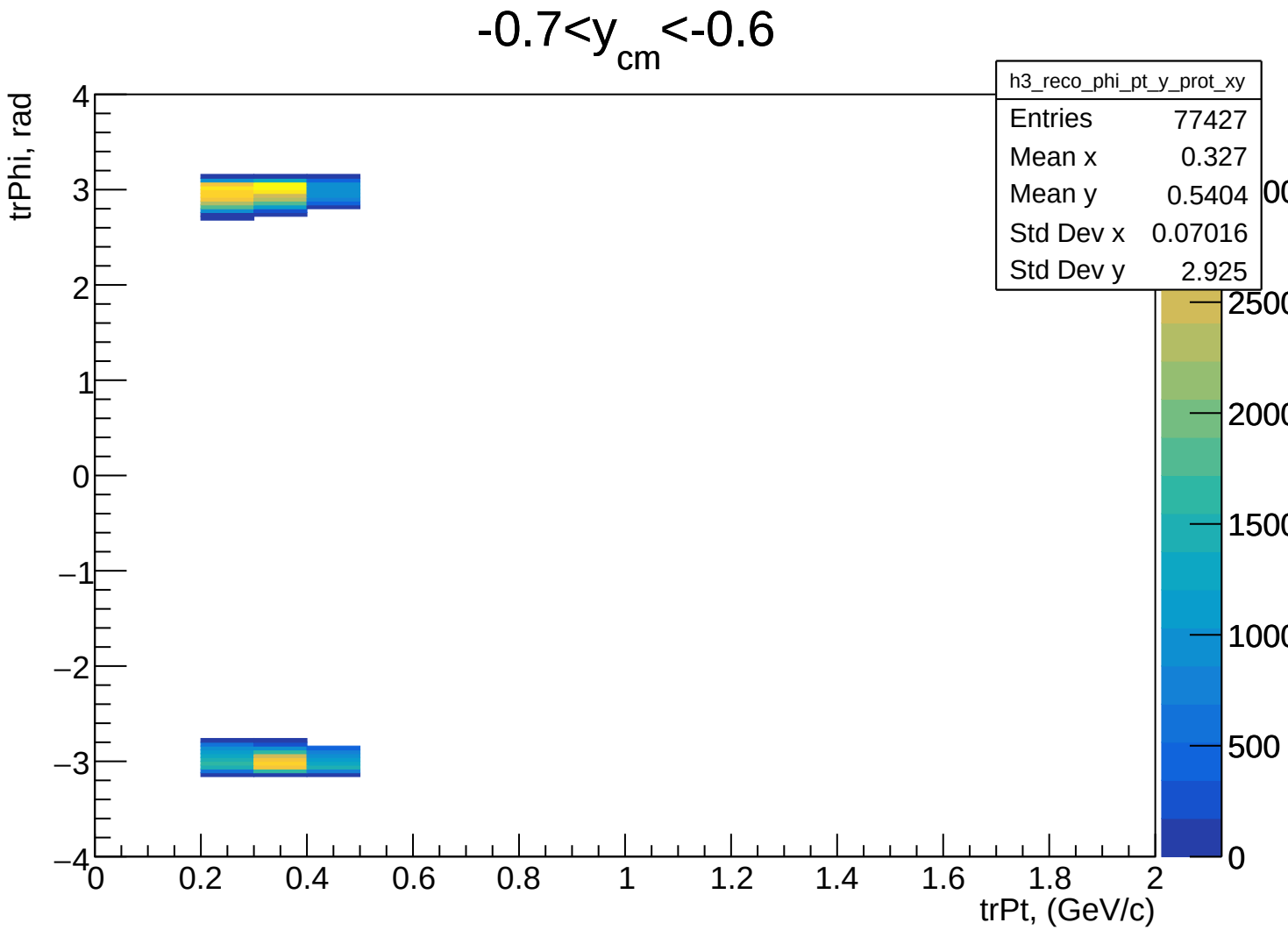
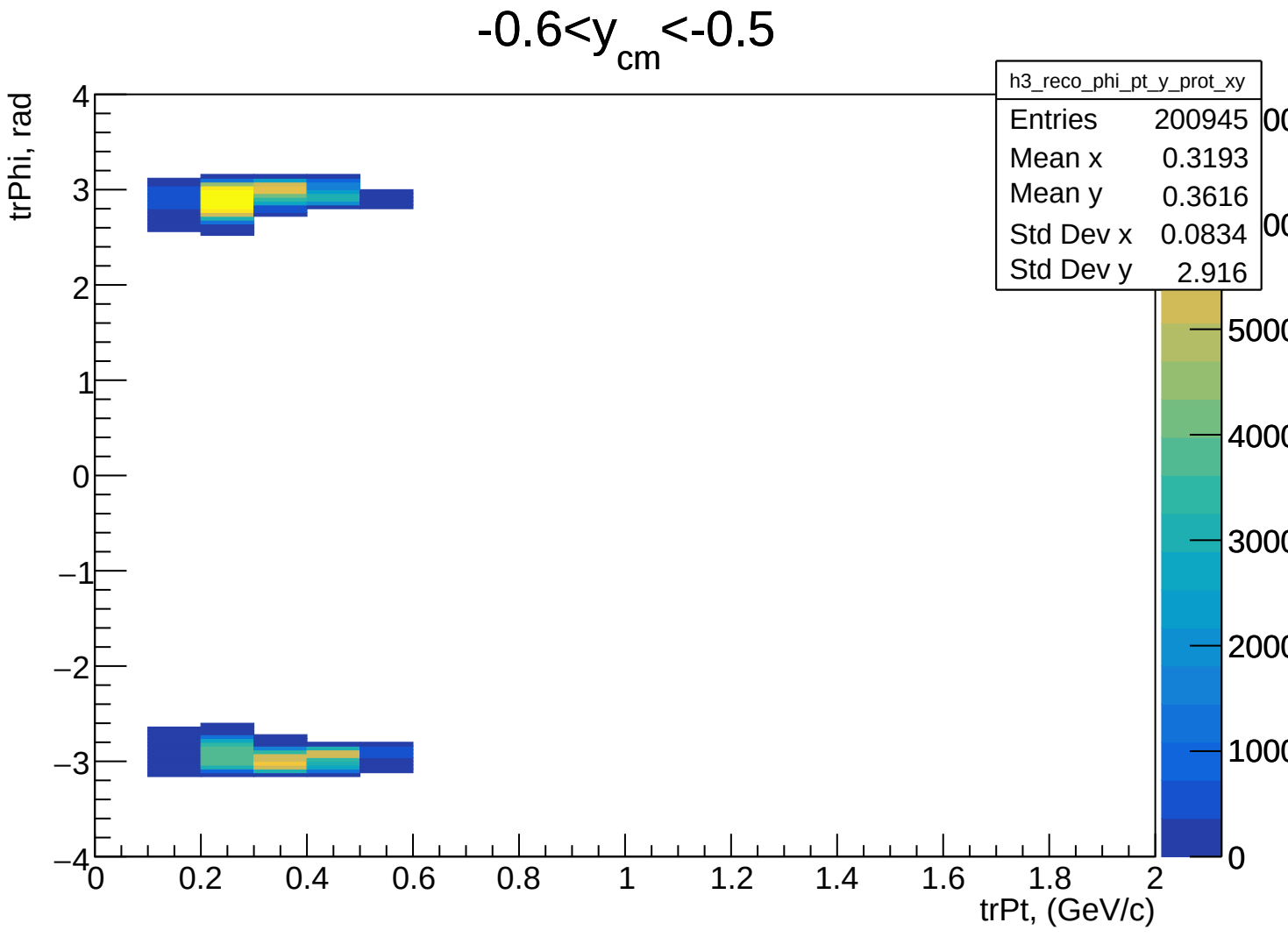
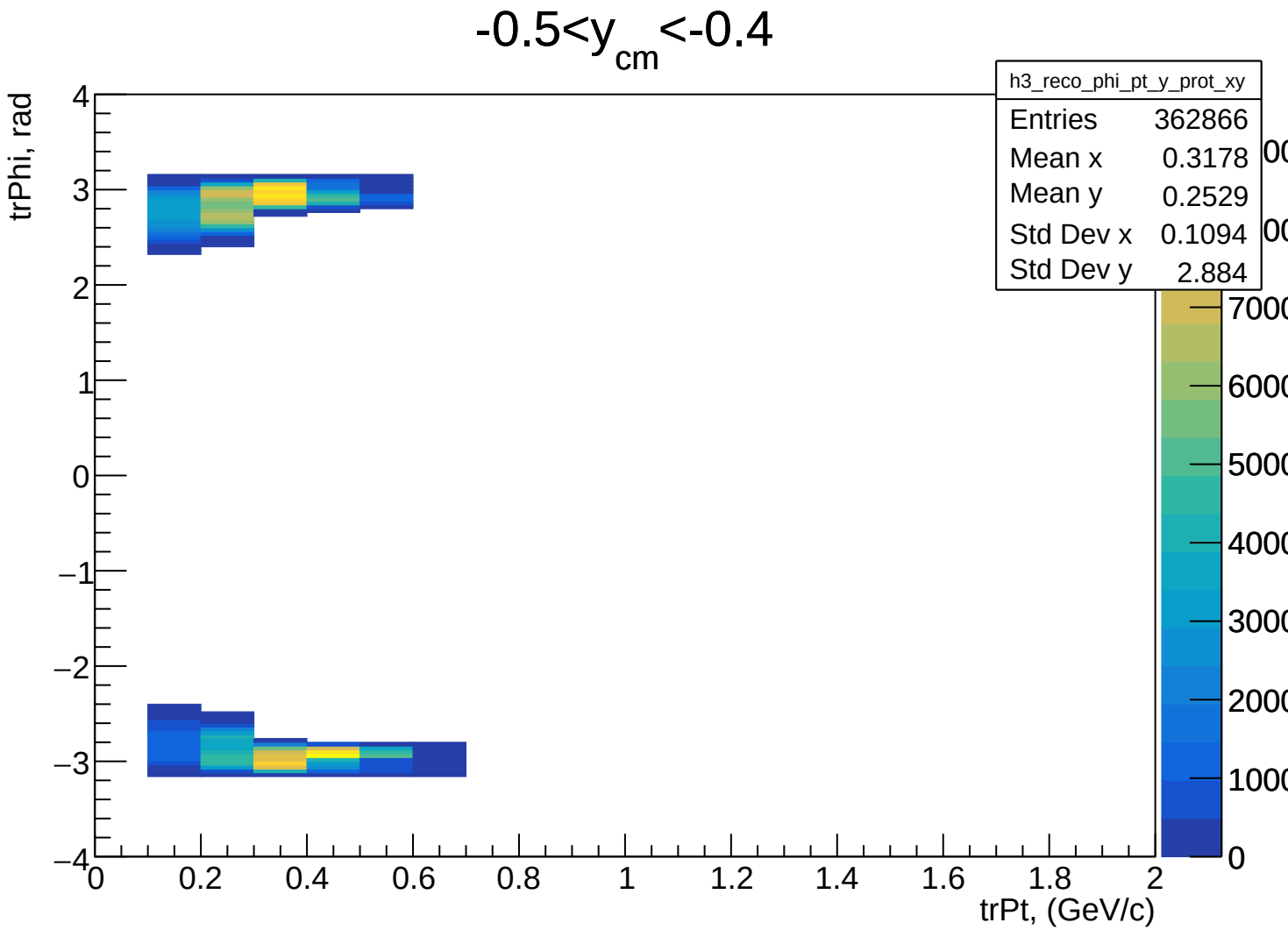

-1.0<y_cm<-0.9
h3_reco_phi_pt_y_prot_xy
Entries 0
Mean x 0
Mean y 0
Std Dev x 0
Std Dev y 0
trPhi, rad
trPt, (GeV/c)
4
3
2
1
0
−1
−2
−3
−4
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
0.04
0.02
0
−0.0
−0.0
−0.0
−0.0
−0.1

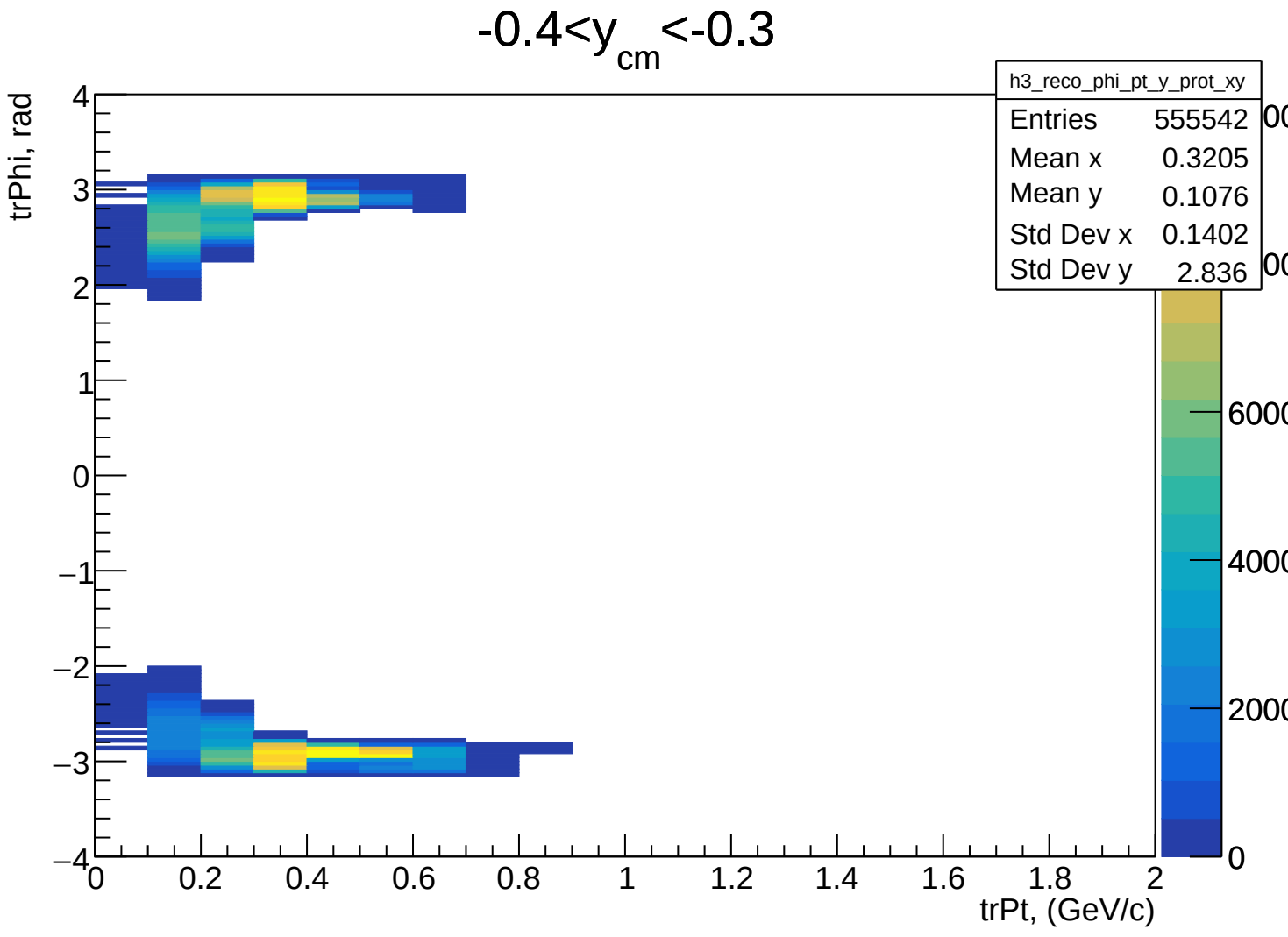

-0.9<y_cm<-0.8
h3_reco_phi_pt_y_prot_xy
Entries 9
Mean x 0.35
Mean y 1.638
Std Dev x 0
Std Dev y 2.511
trPhi, rad
trPt, (GeV/c)
4
3
2
1
0
−1
−2
−3
−4
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
1.4
1.2
1
0.8
0.6
0.4
0.2
0

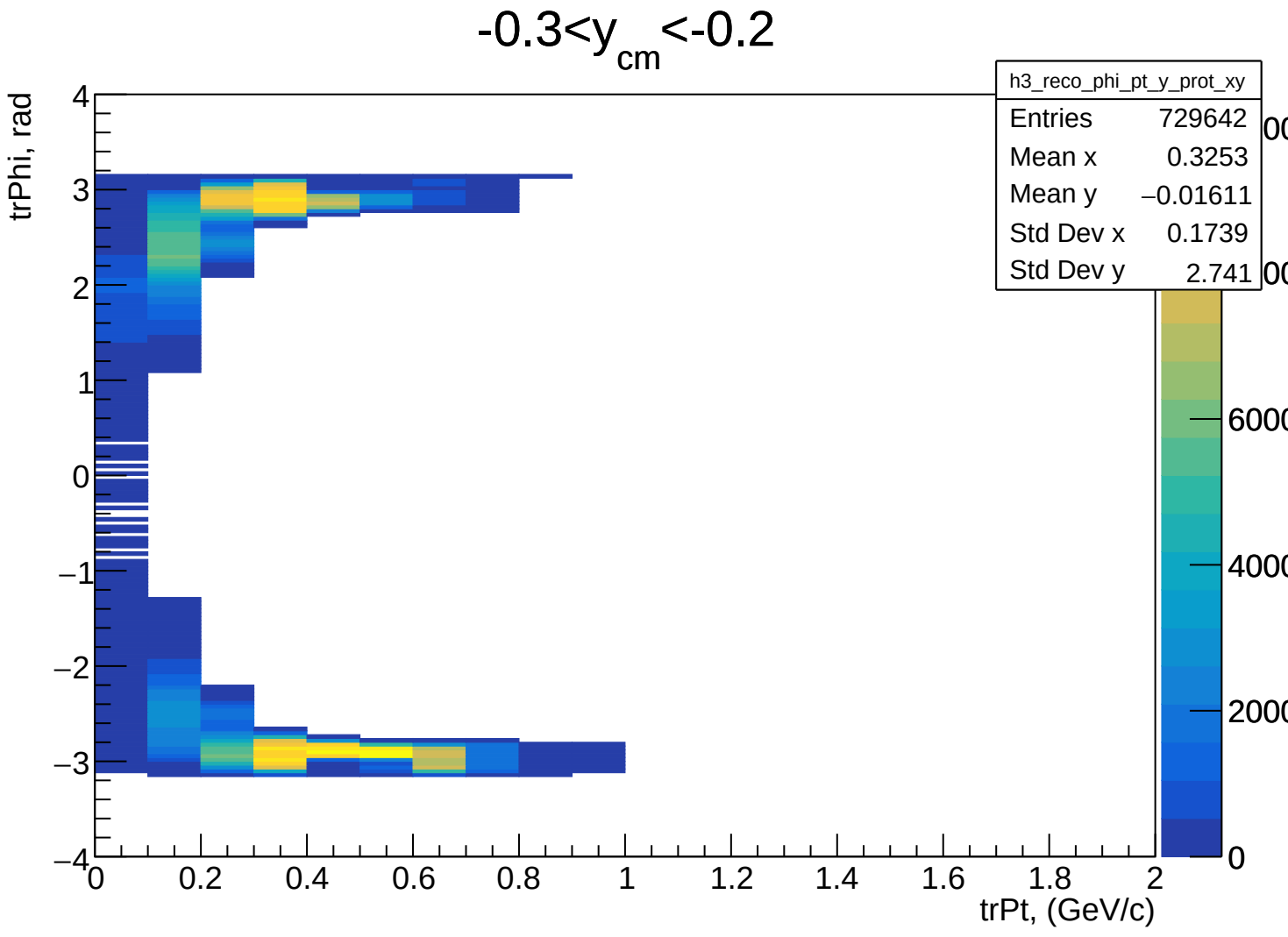

-0.8<y_cm<-0.7
h3_reco_phi_pt_y_prot_xy
Entries 8532
Mean x 0.3409
Mean y 0.7783
Std Dev x 0.04503
Std Dev y 2.897
trPhi, rad
trPt, (GeV/c)
4
3
2
1
0
−1
−2
−3
−4
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
600
500
400
300
200
100
0

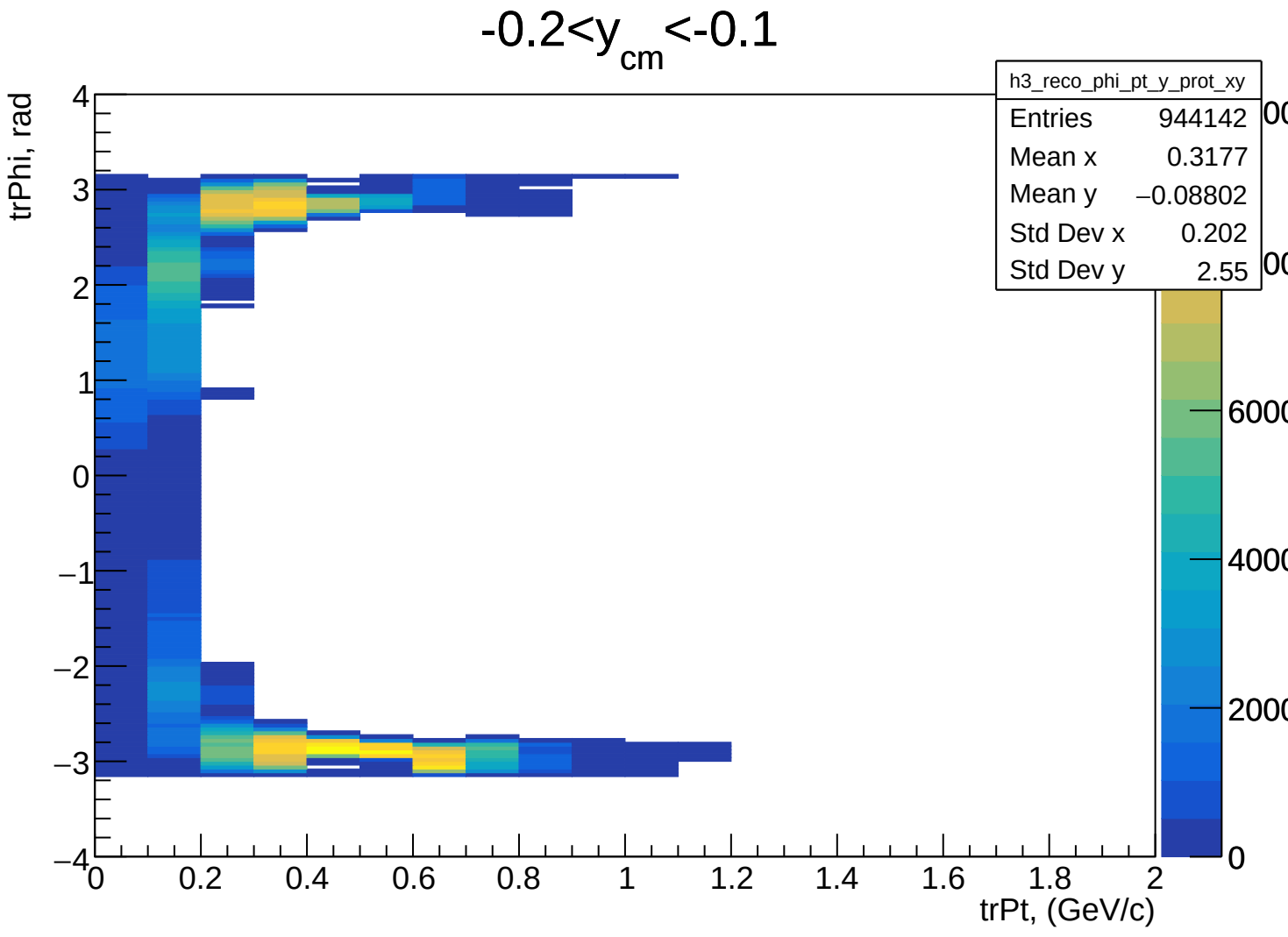

-0.7<y_cm<-0.6
h3_reco_phi_pt_y_prot_xy
Entries 77427
Mean x 0.327
Mean y 0.5404
Std Dev x 0.07016
Std Dev y 2.925
trPhi, rad
trPt, (GeV/c)
4
3
2
1
0
−1
−2
−3
−4
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
2500
2000
1500
1000
500
0

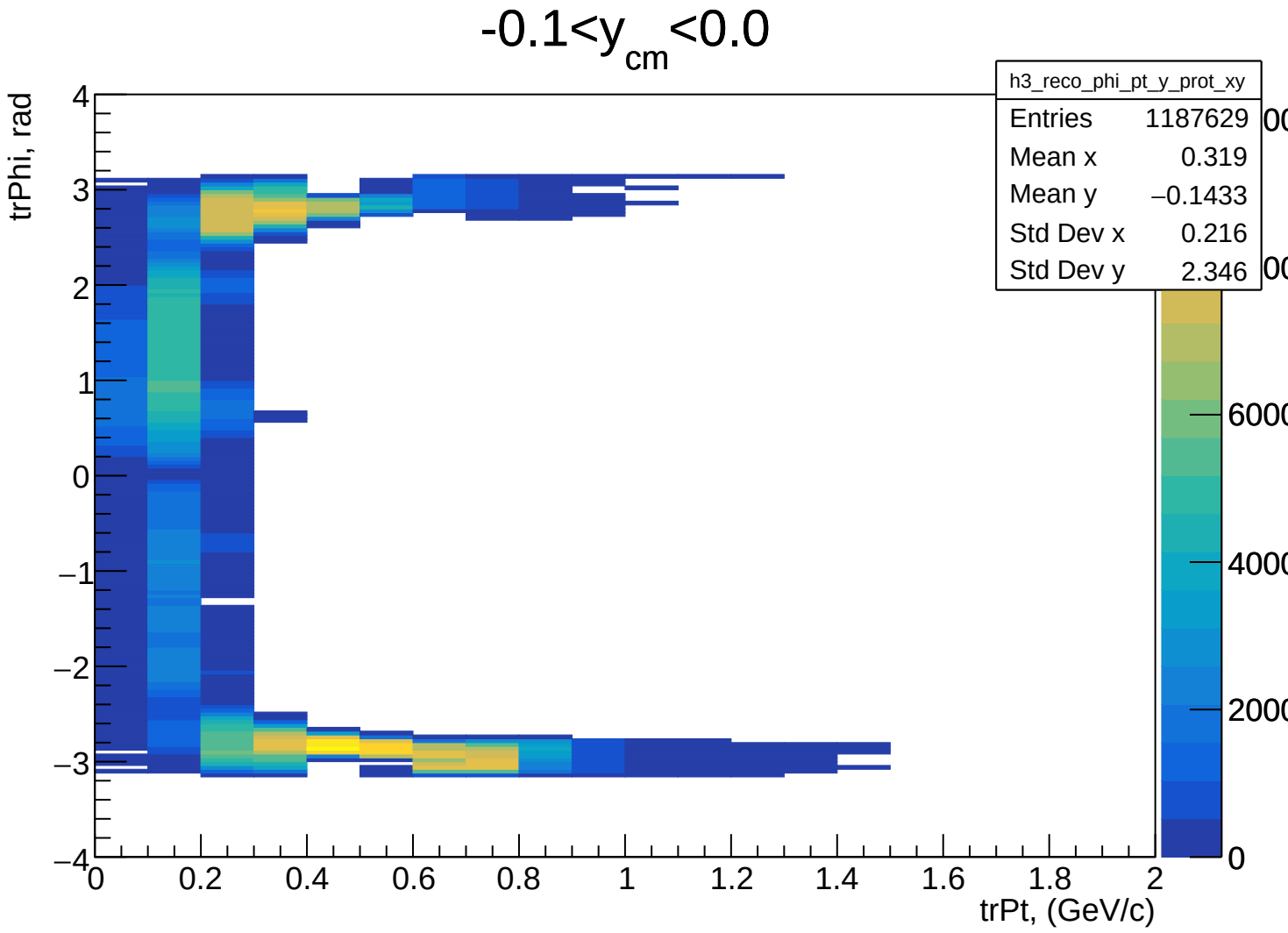

-0.6<y_cm<-0.5
h3_reco_phi_pt_y_prot_xy
Entries 200945
Mean x 0.3193
Mean y 0.3616
Std Dev x 0.0834
Std Dev y 2.916
trPhi, rad
trPt, (GeV/c)
4
3
2
1
0
−1
−2
−3
−4
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
5000
4000
3000
2000
1000
0

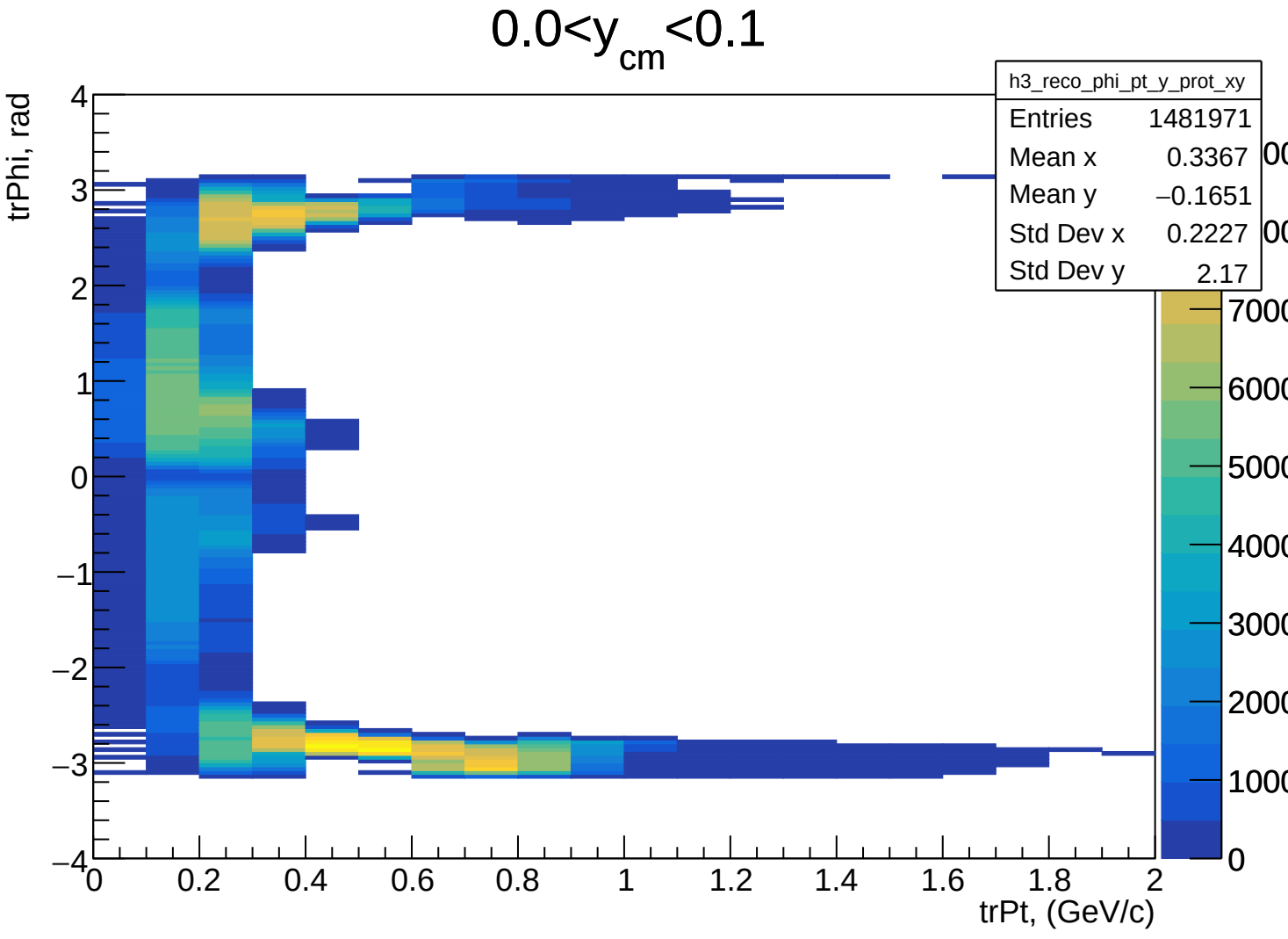

-0.5<y_cm<-0.4
h3_reco_phi_pt_y_prot_xy
Entries 362866
Mean x 0.3178
Mean y 0.2529
Std Dev x 0.1094
Std Dev y 2.884
trPhi, rad
trPt, (GeV/c)
4
3
2
1
0
−1
−2
−3
−4
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
7000
6000
5000
4000
3000
2000
1000
0

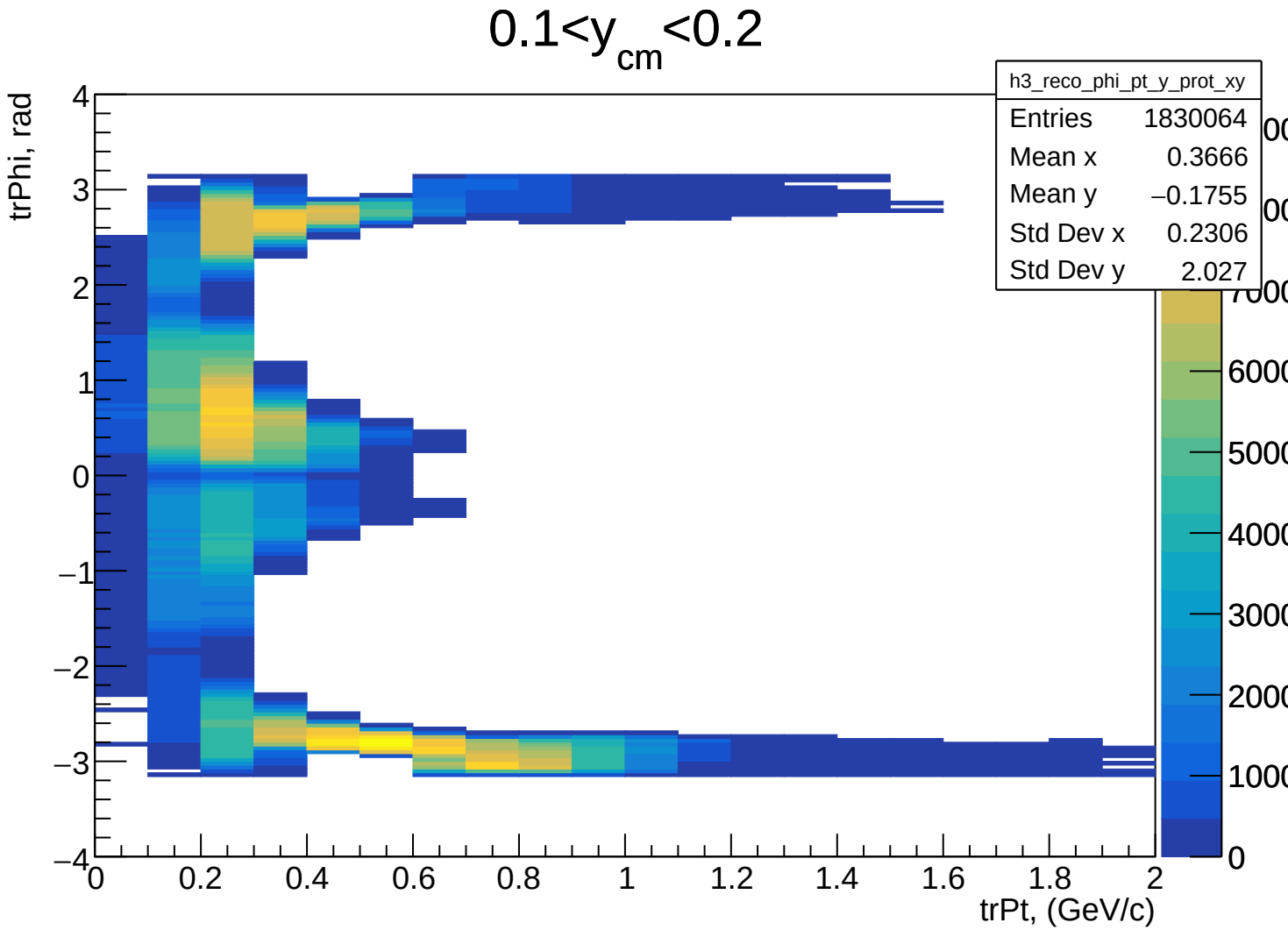

-0.4<y_cm<-0.3
h3_reco_phi_pt_y_prot_xy
Entries 555542
Mean x 0.3205
Mean y 0.1076
Std Dev x 0.1402
Std Dev y 2.836
trPhi, rad
trPt, (GeV/c)
4
3
2
1
0
−1
−2
−3
−4
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
6000
4000
2000
0

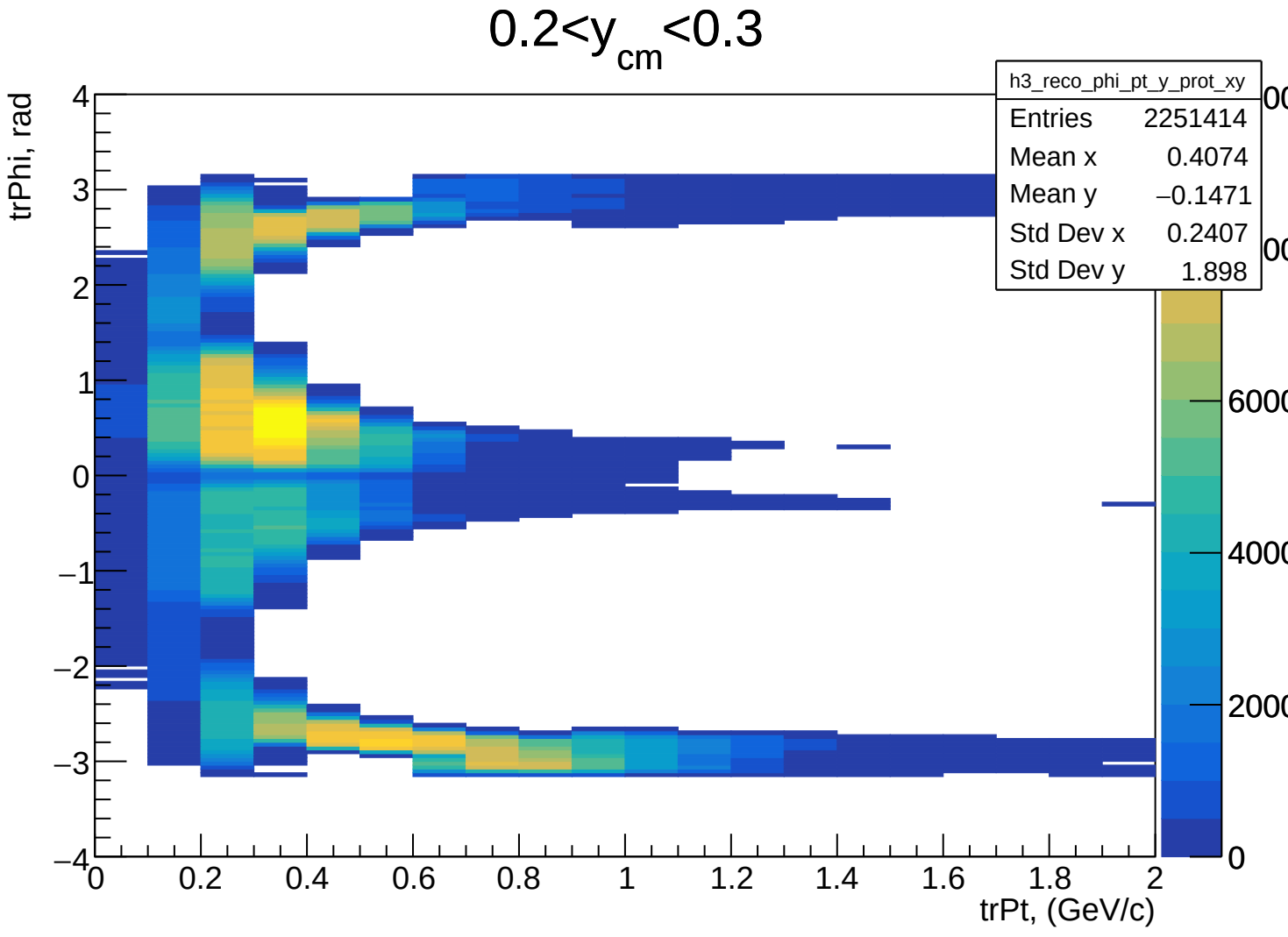

-0.3<y_cm<-0.2
h3_reco_phi_pt_y_prot_xy
Entries 729642
Mean x 0.3253
Mean y −0.01611
Std Dev x 0.1739
Std Dev y 2.741
trPhi, rad
trPt, (GeV/c)
4
3
2
1
0
−1
−2
−3
−4
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
6000
4000
2000
0

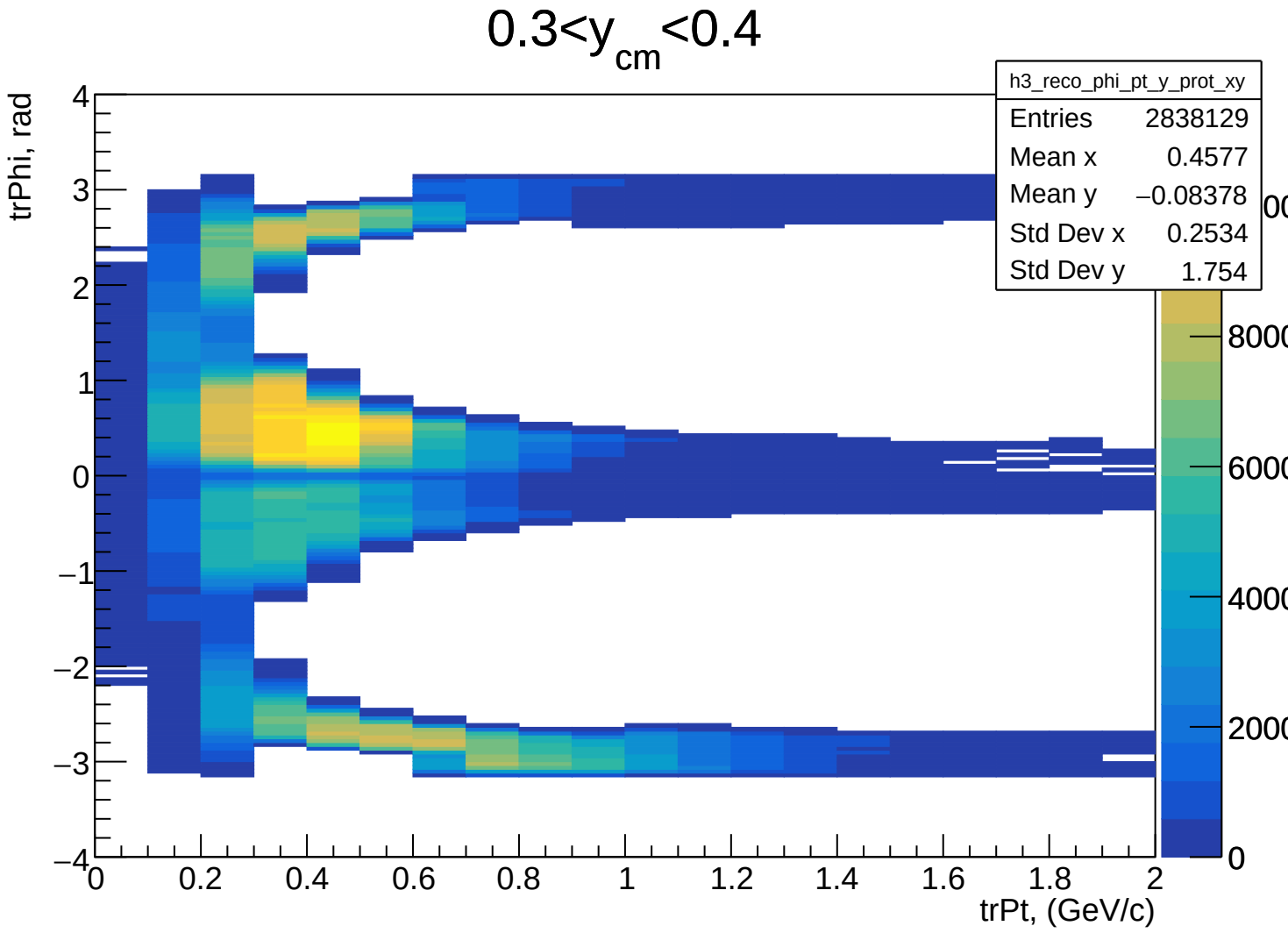

-0.2<y_cm<-0.1
h3_reco_phi_pt_y_prot_xy
Entries 944142
Mean x 0.3177
Mean y −0.08802
Std Dev x 0.202
Std Dev y 2.55
trPhi, rad
trPt, (GeV/c)
4
3
2
1
0
−1
−2
−3
−4
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
6000
4000
2000
0

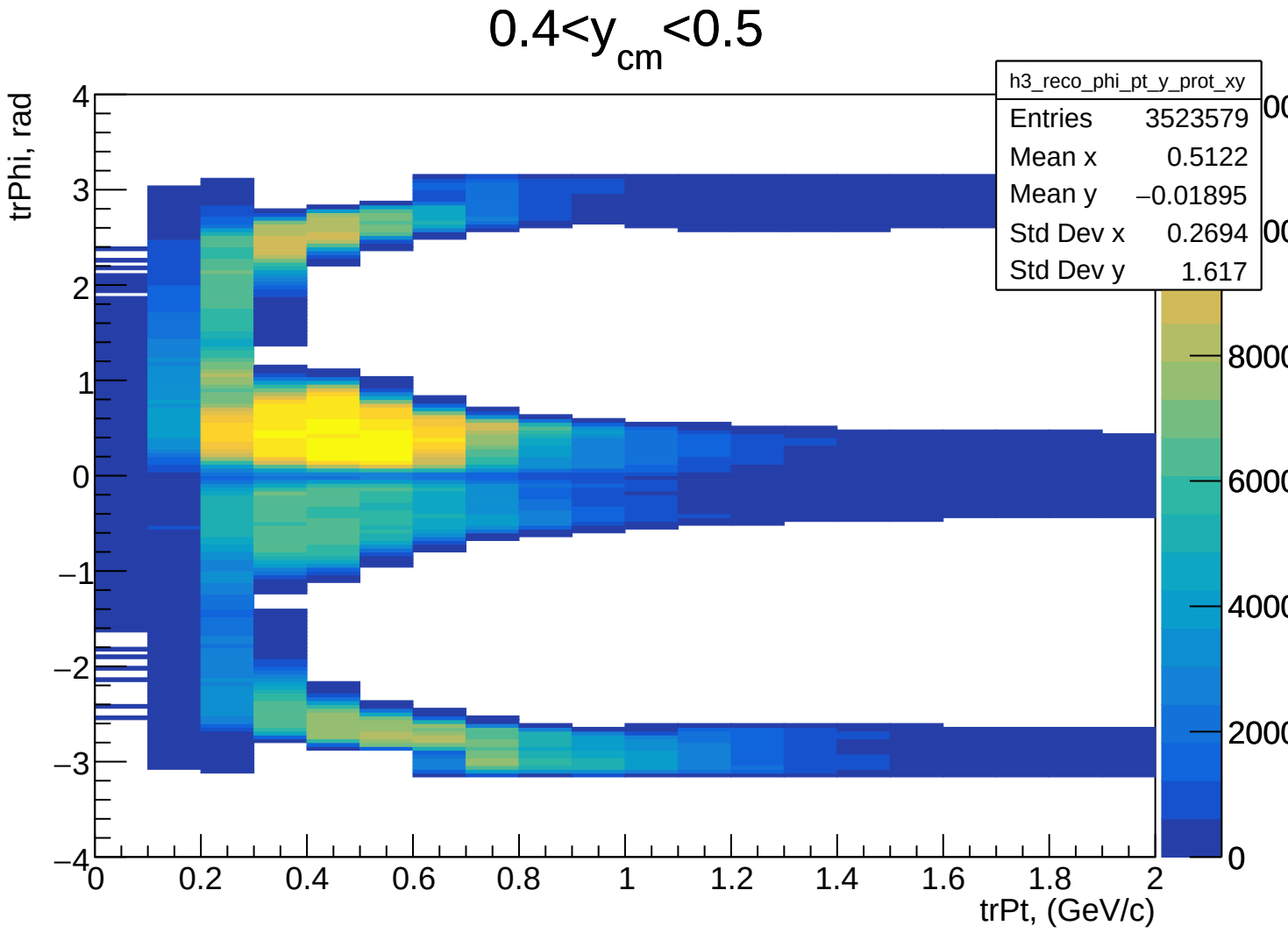

-0.1<y_cm<0.0
h3_reco_phi_pt_y_prot_xy
Entries 1187629
Mean x 0.319
Mean y −0.1433
Std Dev x 0.216
Std Dev y 2.346
trPhi, rad
trPt, (GeV/c)
4
3
2
1
0
−1
−2
−3
−4
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
6000
4000
2000
0

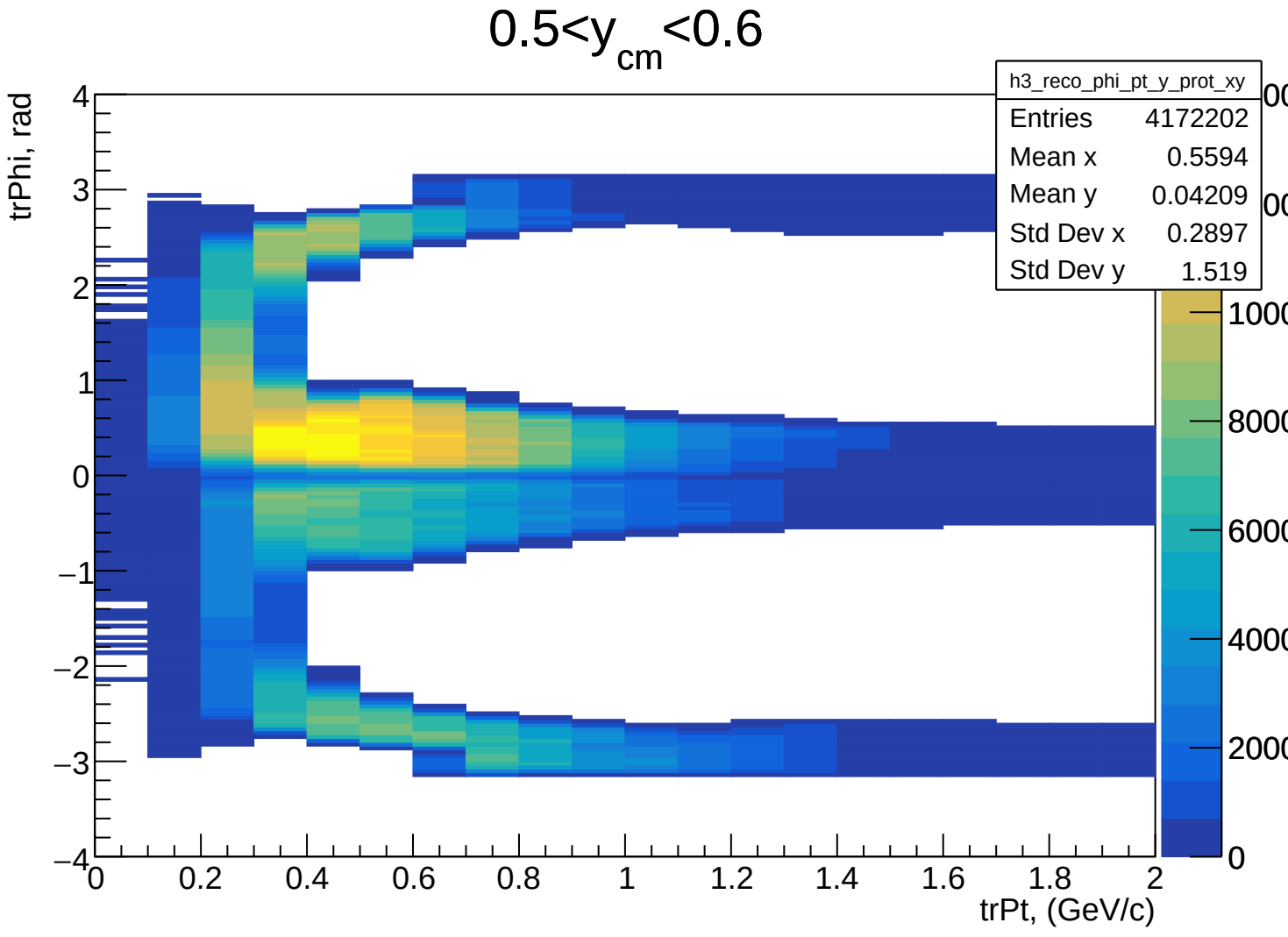

0.0<y_cm<0.1
h3_reco_phi_pt_y_prot_xy
Entries 1481971
Mean x 0.3367
Mean y −0.1651
Std Dev x 0.2227
Std Dev y 2.17
trPhi, rad
trPt, (GeV/c)
4
3
2
1
0
−1
−2
−3
−4
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
7000
6000
5000
4000
3000
2000
1000
0

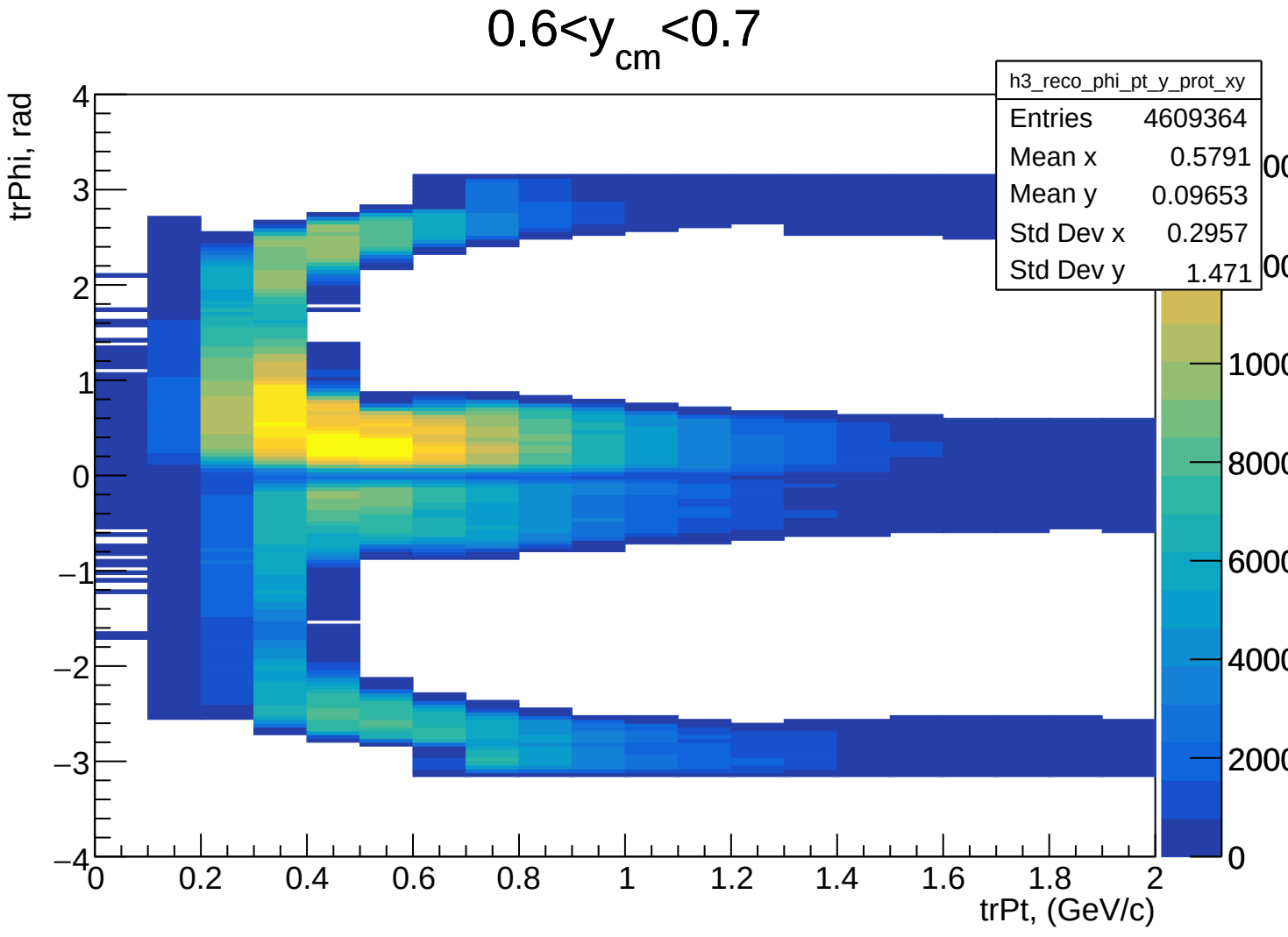

0.1<y_cm<0.2
h3_reco_phi_pt_y_prot_xy
Entries 1830064
Mean x 0.3666
Mean y −0.1755
Std Dev x 0.2306
Std Dev y 2.027
trPhi, rad
trPt, (GeV/c)
4
3
2
1
0
−1
−2
−3
−4
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
6000
5000
4000
3000
2000
1000
0

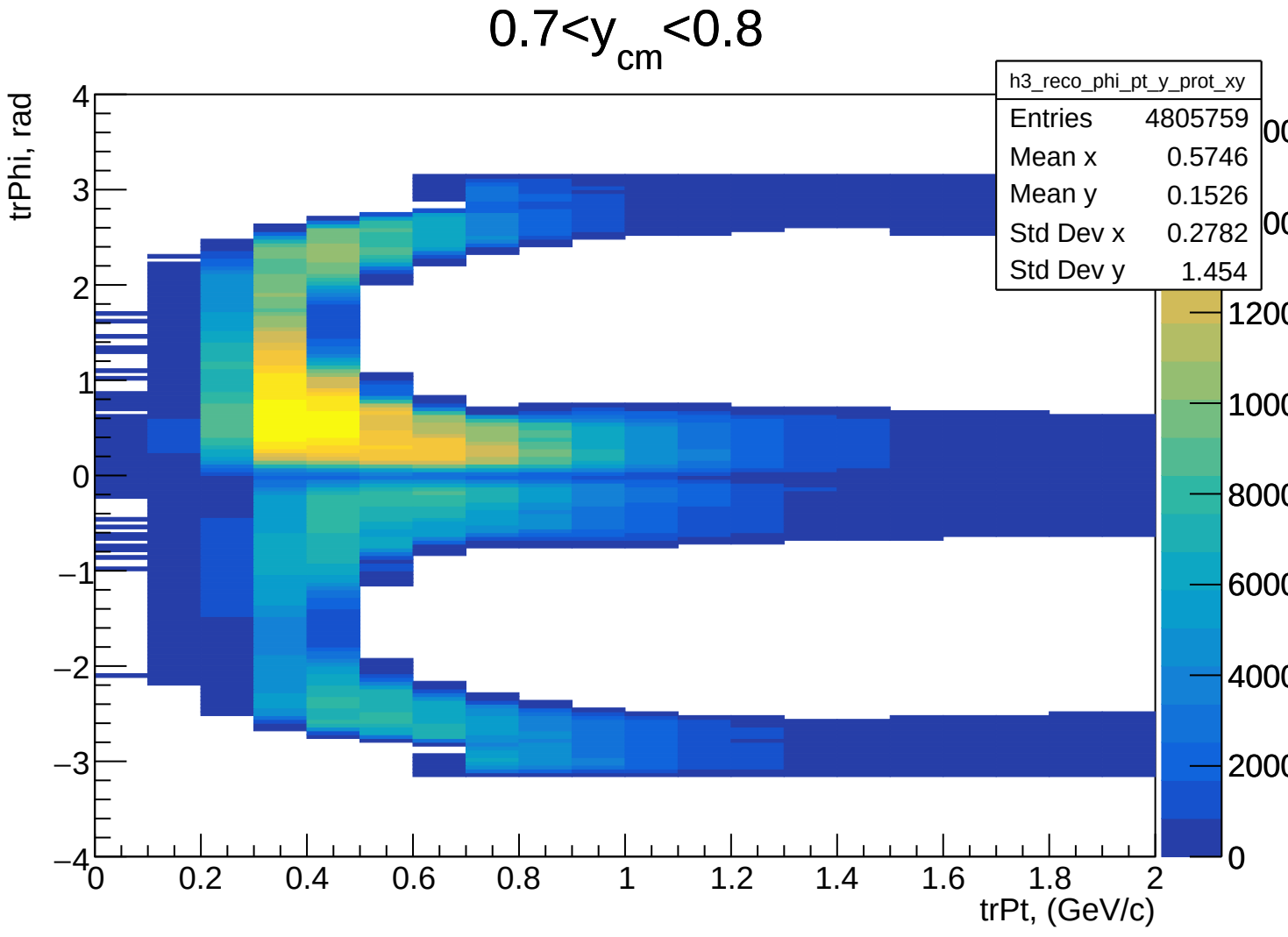

0.2<y_cm<0.3
h3_reco_phi_pt_y_prot_xy
Entries 2251414
Mean x 0.4074
Mean y −0.1471
Std Dev x 0.2407
Std Dev y 1.898
trPhi, rad
trPt, (GeV/c)
4
3
2
1
0
−1
−2
−3
−4
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
6000
4000
2000
0

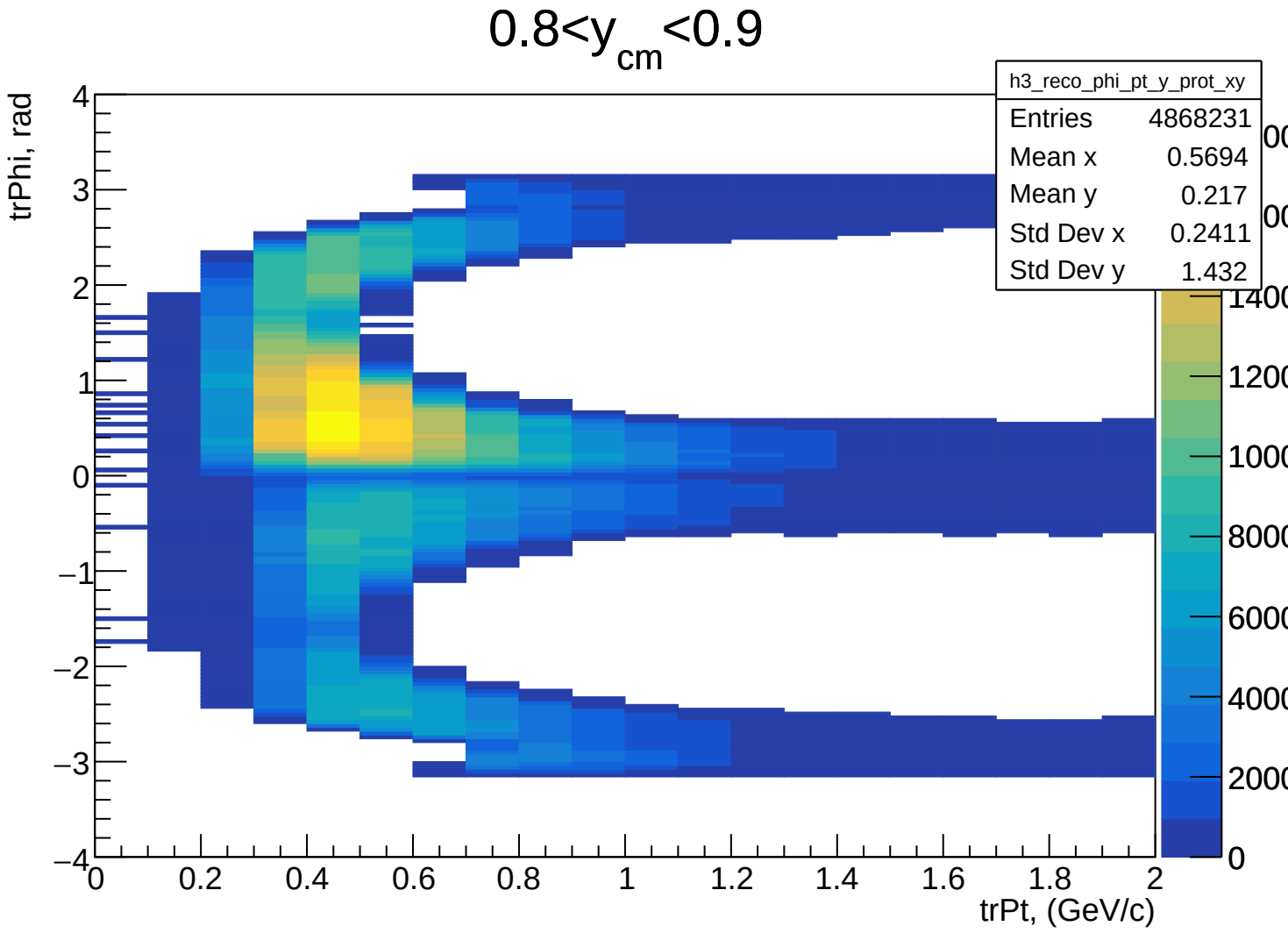

0.3<y_cm<0.4
h3_reco_phi_pt_y_prot_xy
Entries 2838129
Mean x 0.4577
Mean y −0.08378
Std Dev x 0.2534
Std Dev y 1.754
trPhi, rad
trPt, (GeV/c)
4
3
2
1
0
−1
−2
−3
−4
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
8000
6000
4000
2000
0

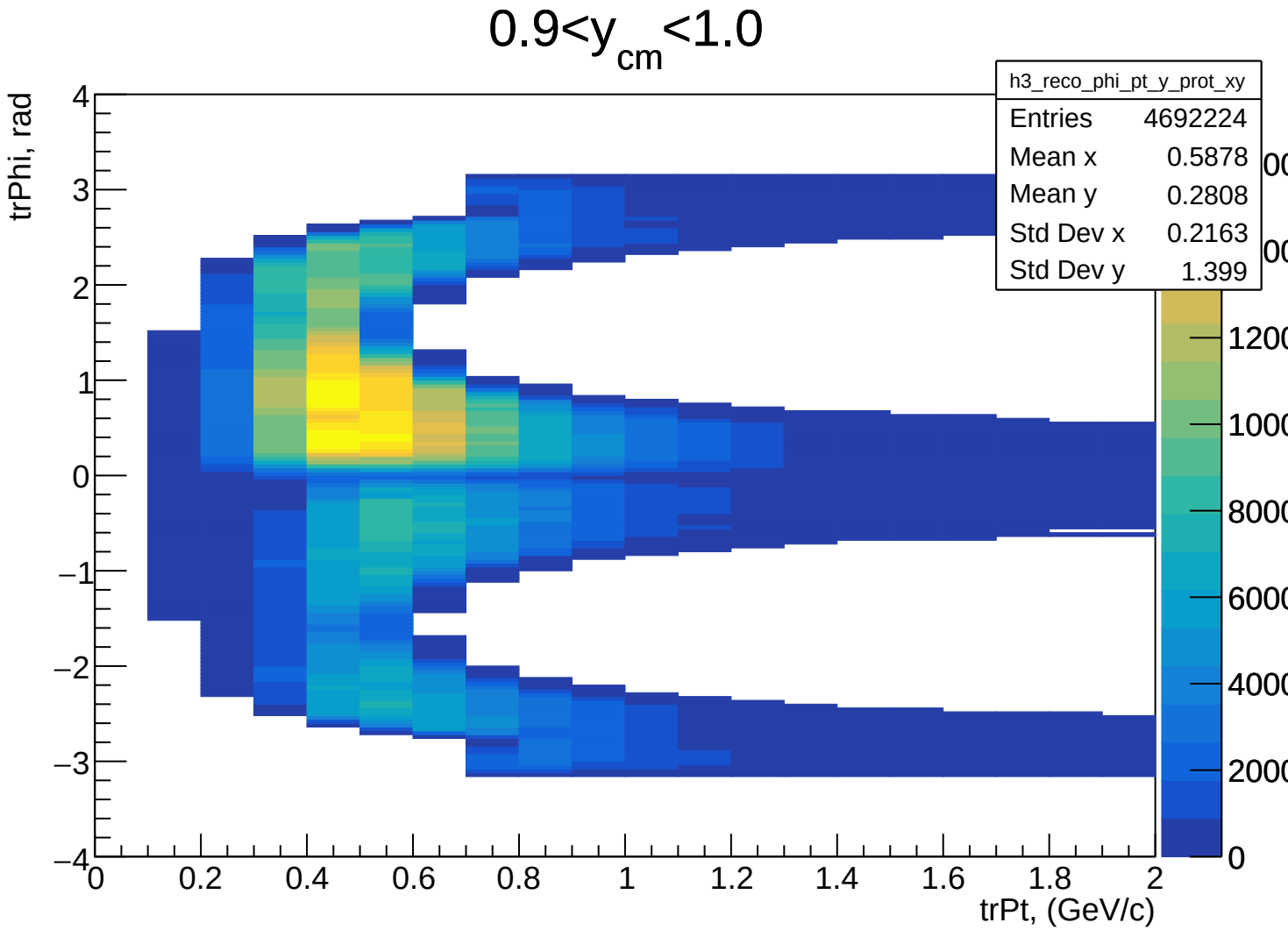

0.4<y_cm<0.5
h3_reco_phi_pt_y_prot_xy
Entries 3523579
Mean x 0.5122
Mean y −0.01895
Std Dev x 0.2694
Std Dev y 1.617
trPhi, rad
trPt, (GeV/c)
4
3
2
1
0
−1
−2
−3
−4
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
8000
6000
4000
2000
0

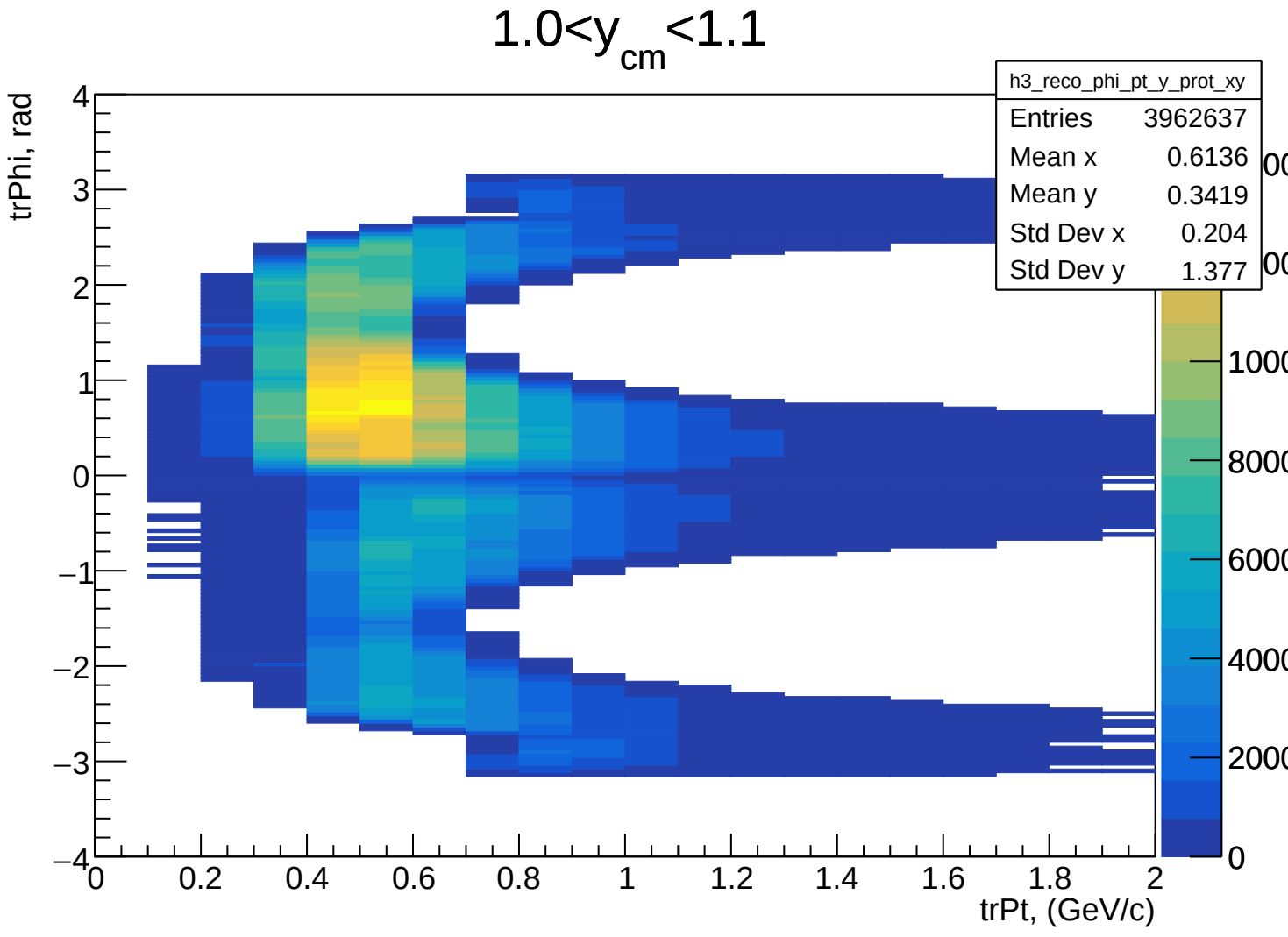

0.5<y_cm<0.6
h3_reco_phi_pt_y_prot_xy
Entries 4172202
Mean x 0.5594
Mean y 0.04209
Std Dev x 0.2897
Std Dev y 1.519
trPhi, rad
trPt, (GeV/c)
4
3
2
1
0
−1
−2
−3
−4
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
1000
8000
6000
4000
2000
0

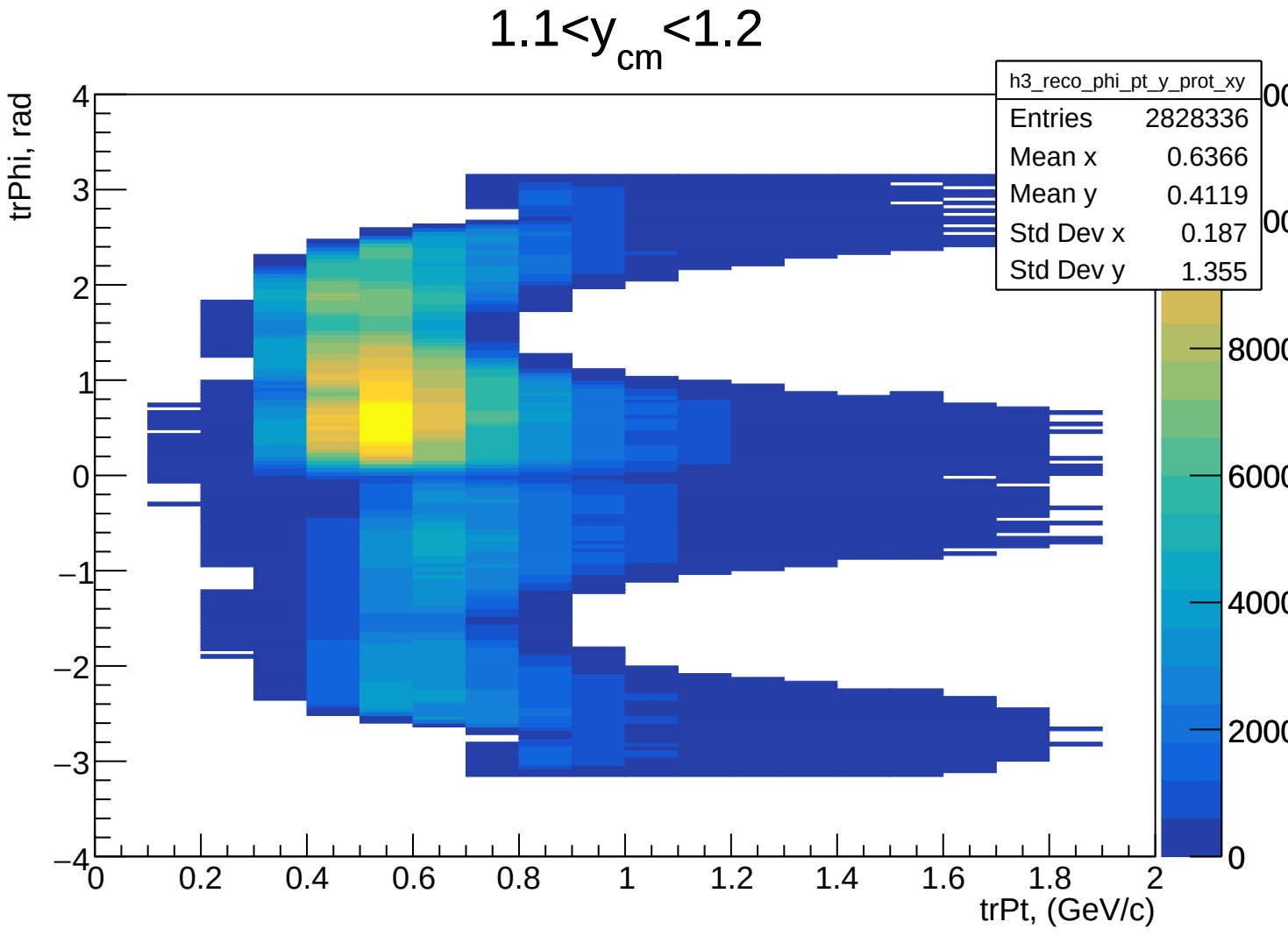

0.6<y_cm<0.7
h3_reco_phi_pt_y_prot_xy
Entries 4609364
Mean x 0.5791
Mean y 0.09653
Std Dev x 0.2957
Std Dev y 1.471
trPhi, rad
trPt, (GeV/c)
4
3
2
1
0
−1
−2
−3
−4
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
1000
8000
6000
4000
2000
0

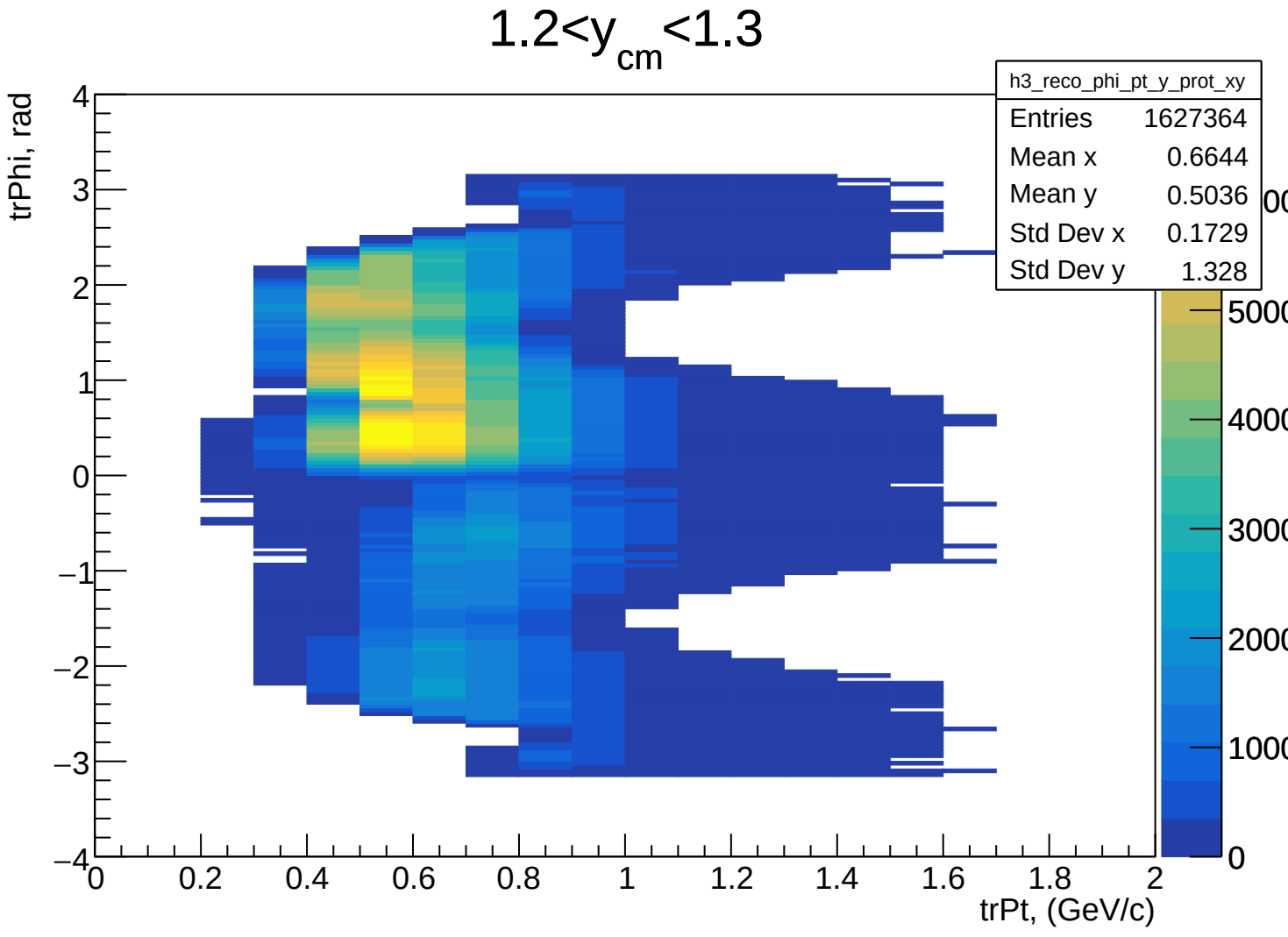

0.7<y_cm<0.8
h3_reco_phi_pt_y_prot_xy
Entries 4805759
Mean x 0.5746
Mean y 0.1526
Std Dev x 0.2782
Std Dev y 1.454
trPhi, rad
trPt, (GeV/c)
4
3
2
1
0
−1
−2
−3
−4
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
1200
1000
800
600
400
200
0

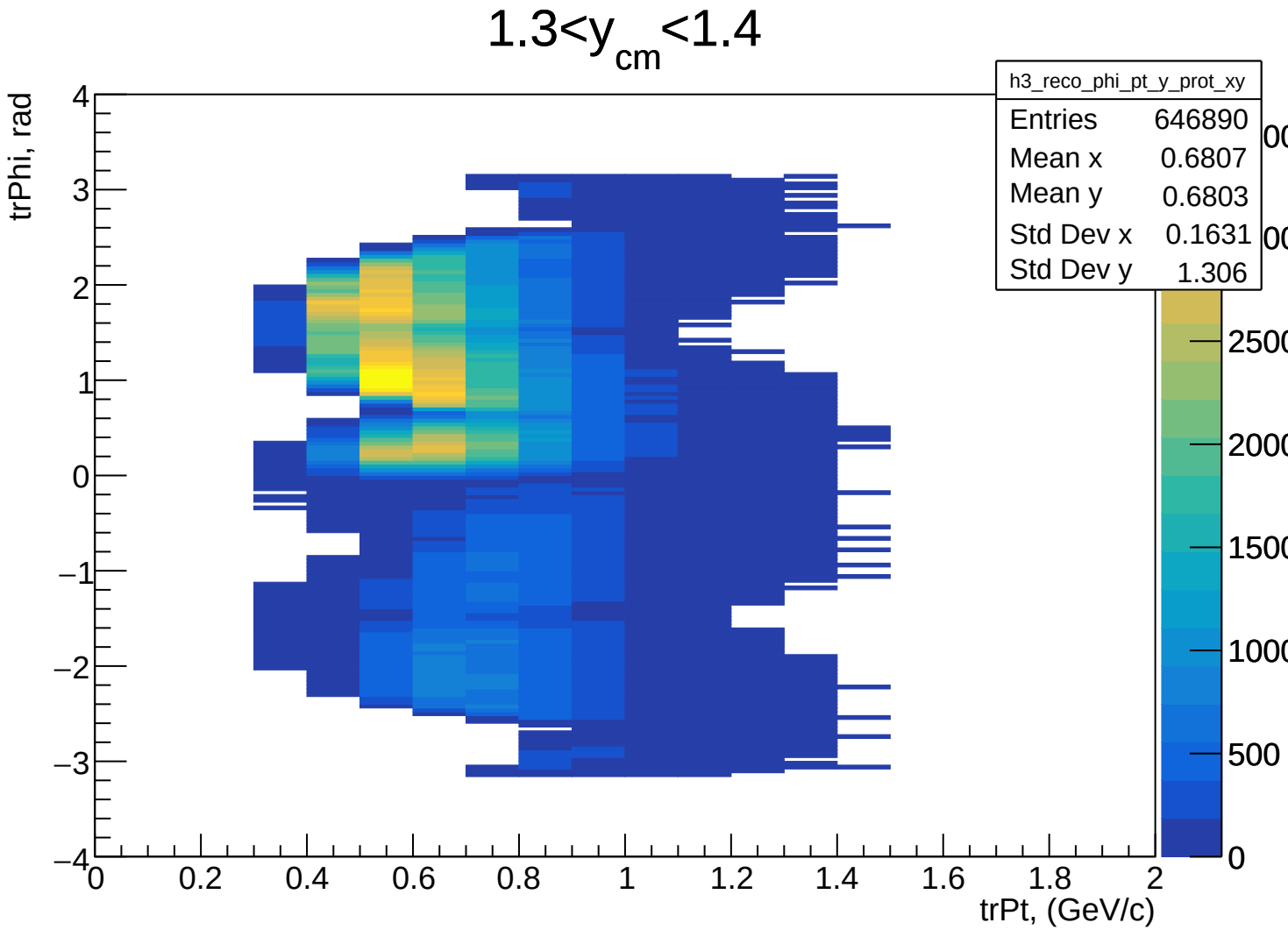

0.8<y_cm<0.9
h3_reco_phi_pt_y_prot_xy
Entries 4868231
Mean x 0.5694
Mean y 0.217
Std Dev x 0.2411
Std Dev y 1.432
trPhi, rad
trPt, (GeV/c)
4
3
2
1
0
−1
−2
−3
−4
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
1400
1200
1000
800
600
400
200
0

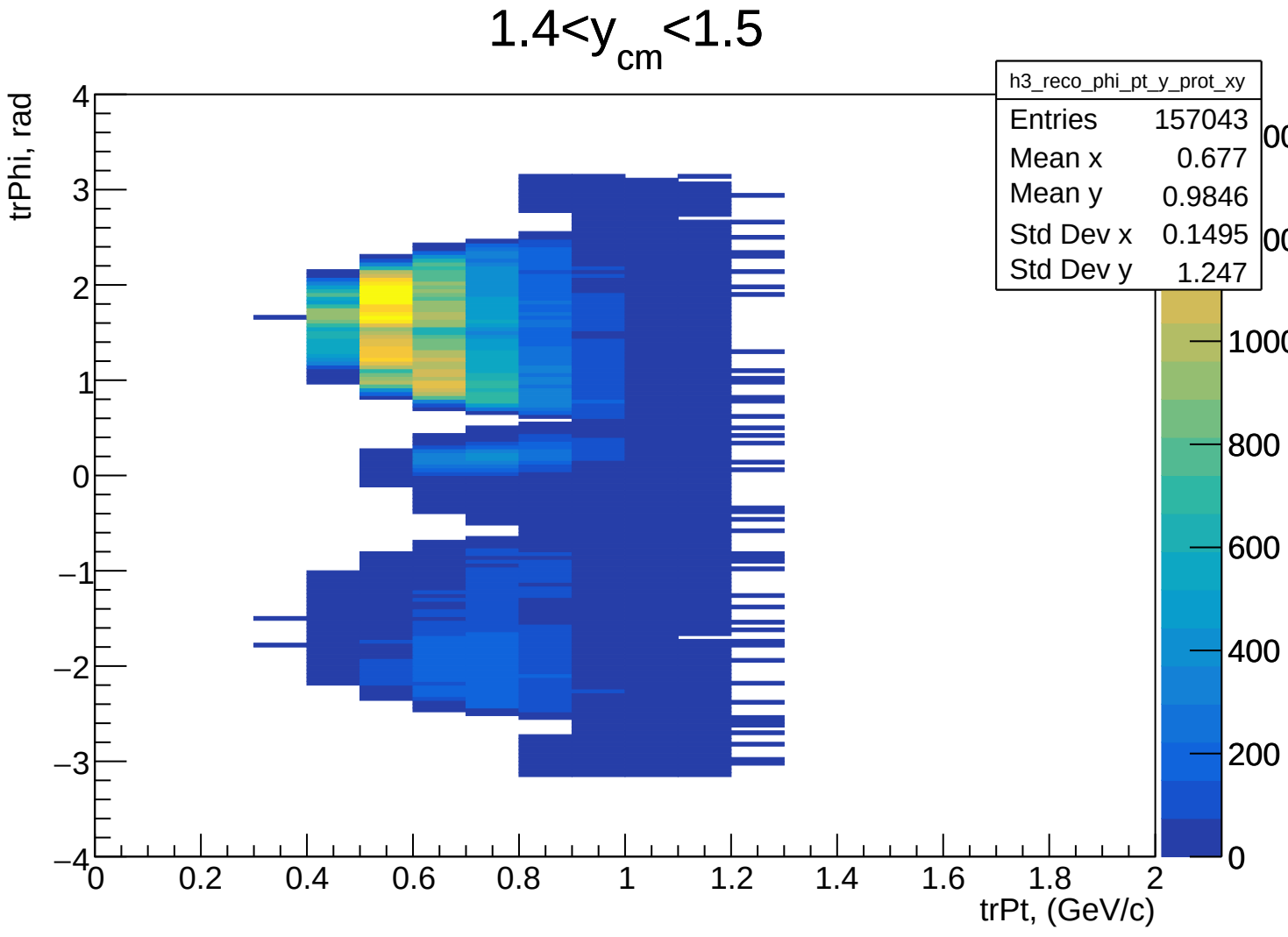

0.9<y_cm<1.0
h3_reco_phi_pt_y_prot_xy
Entries 4692224
Mean x 0.5878
Mean y 0.2808
Std Dev x 0.2163
Std Dev y 1.399
trPhi, rad
trPt, (GeV/c)
4
3
2
1
0
−1
−2
−3
−4
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
1200
1000
800
600
400
200
0

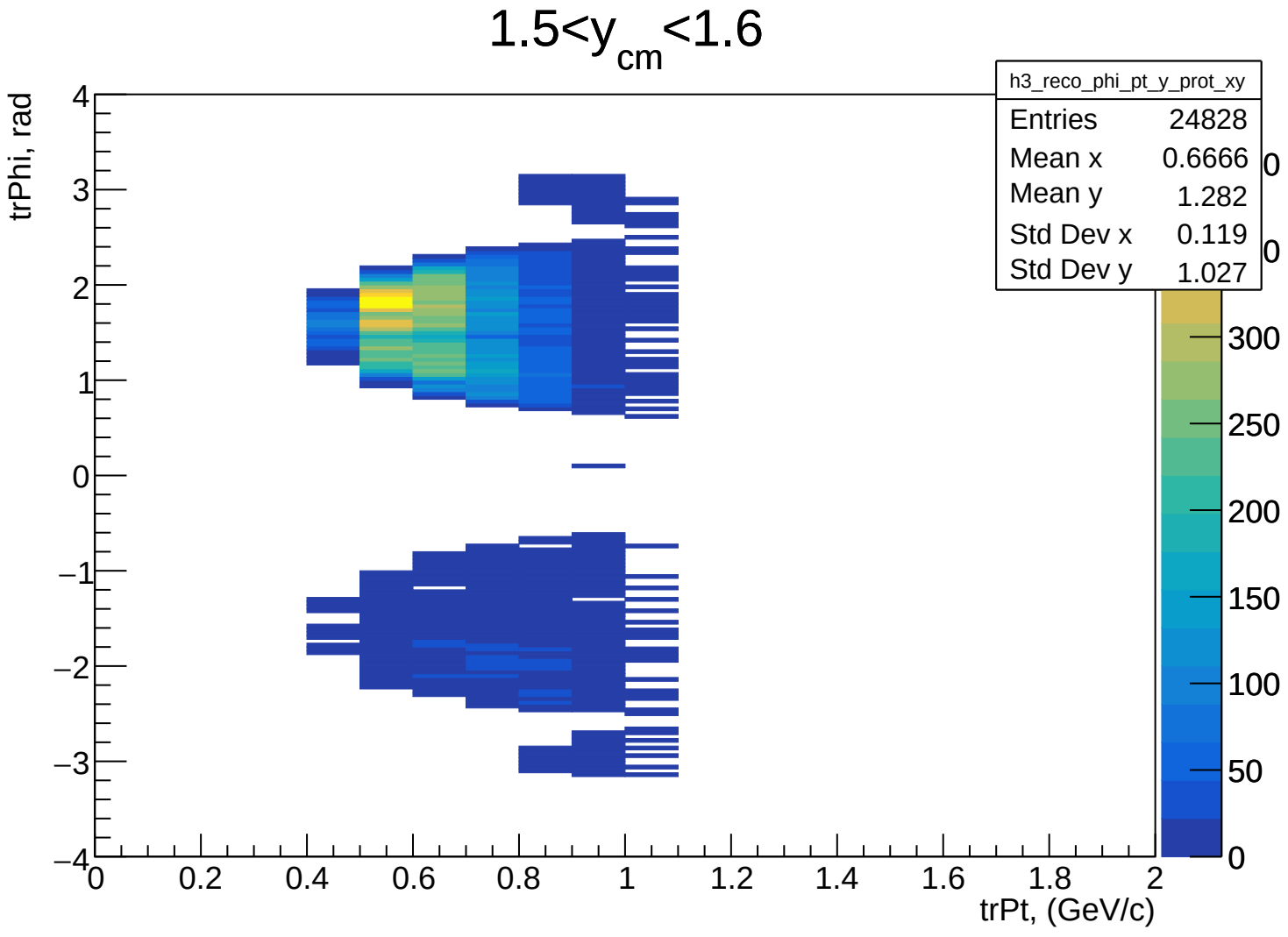

1.0<y_cm<1.1
h3_reco_phi_pt_y_prot_xy
Entries 3962637
Mean x 0.6136
Mean y 0.3419
Std Dev x 0.204
Std Dev y 1.377
trPhi, rad
trPt, (GeV/c)
4
3
2
1
0
−1
−2
−3
−4
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
1000
8000
6000
4000
2000
0

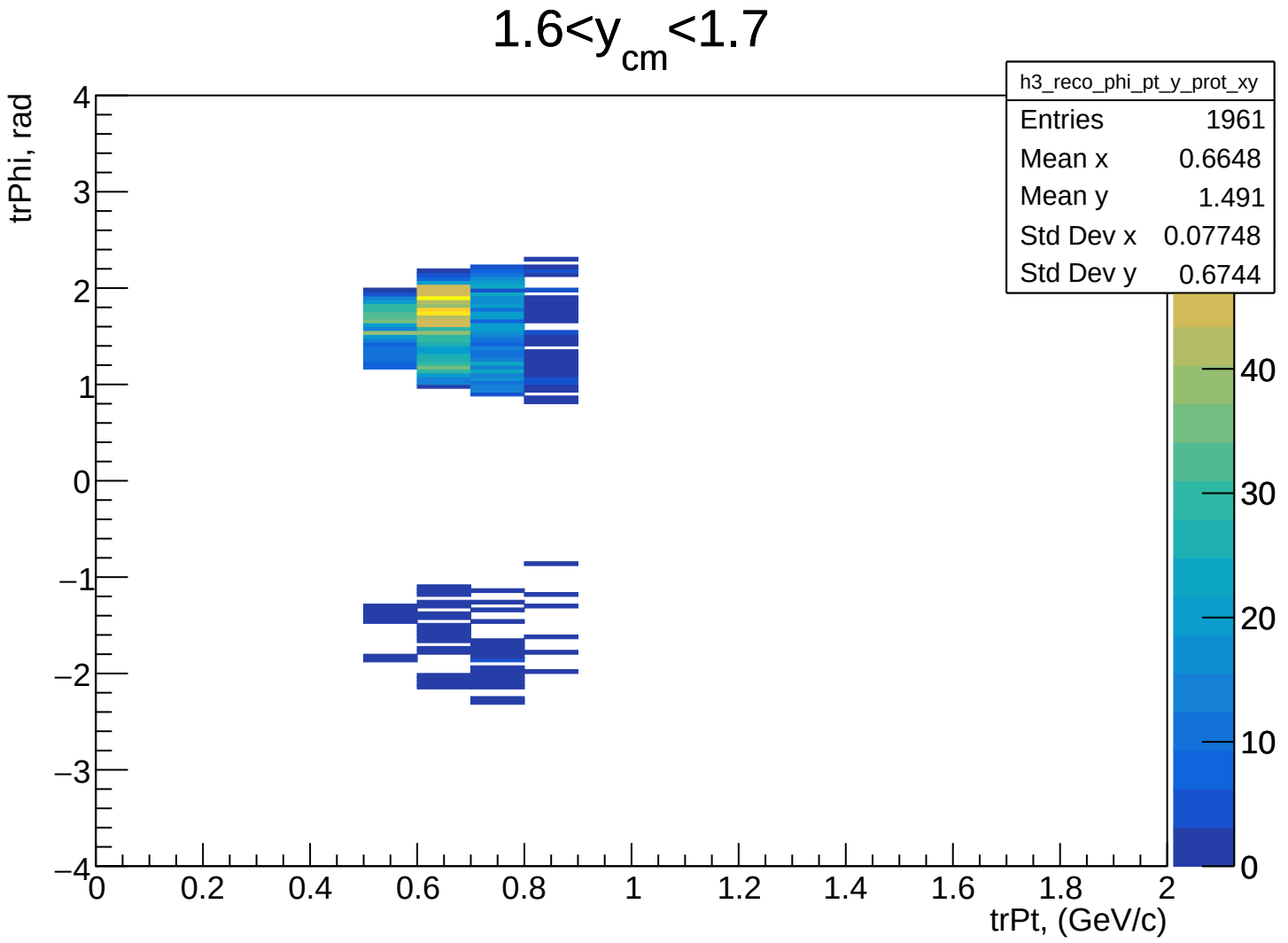

1.1<y_cm<1.2
h3_reco_phi_pt_y_prot_xy
Entries 2828336
Mean x 0.6366
Mean y 0.4119
Std Dev x 0.187
Std Dev y 1.355
trPhi, rad
trPt, (GeV/c)
4
3
2
1
0
−1
−2
−3
−4
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
8000
6000
4000
2000
0

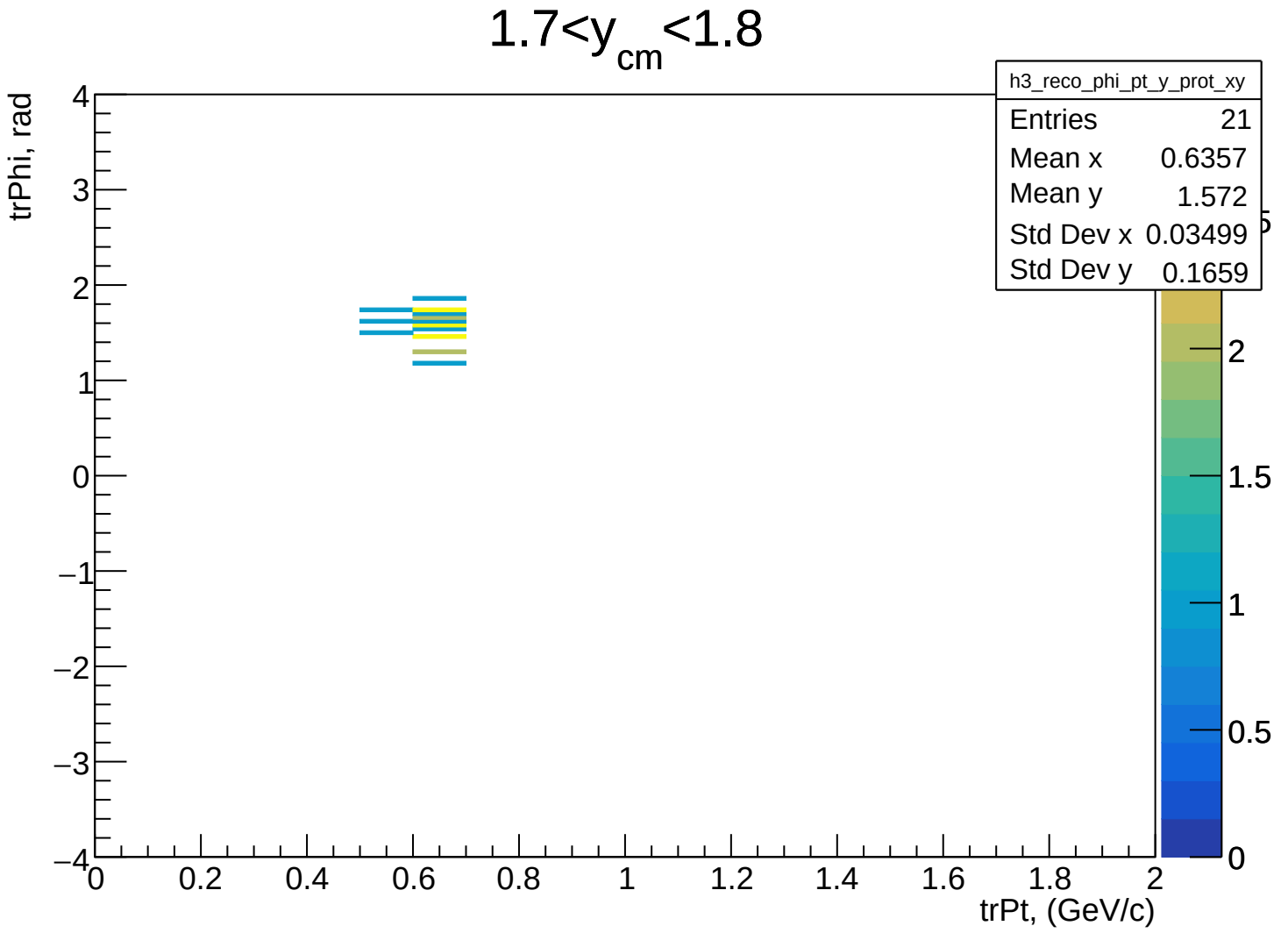

1.2<y_cm<1.3
h3_reco_phi_pt_y_prot_xy
Entries 1627364
Mean x 0.6644
Mean y 0.5036
Std Dev x 0.1729
Std Dev y 1.328
trPhi, rad
trPt, (GeV/c)
4
3
2
1
0
−1
−2
−3
−4
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
5000
4000
3000
2000
1000
0

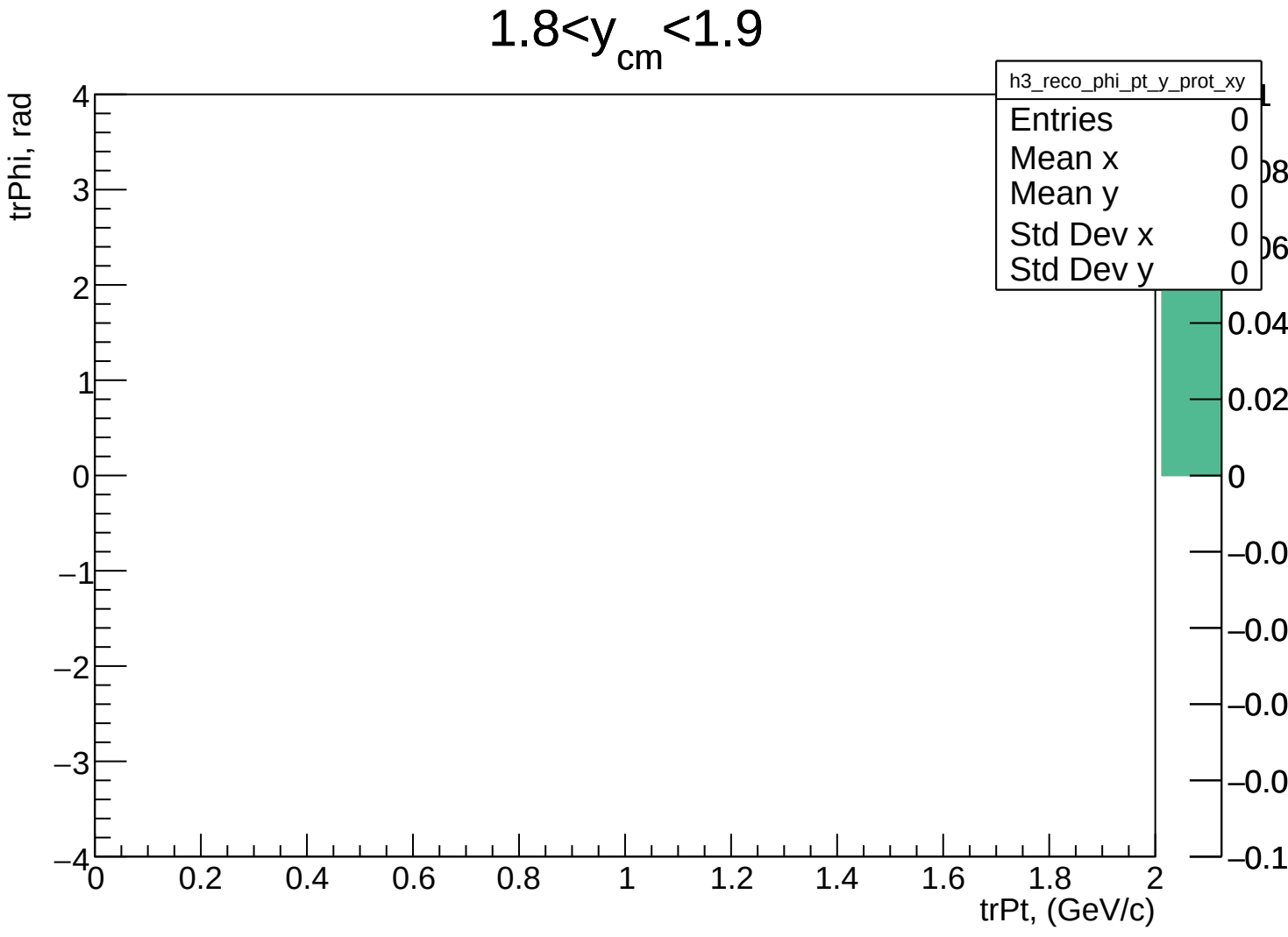

1.3<y_cm<1.4
h3_reco_phi_pt_y_prot_xy
Entries 646890
Mean x 0.6807
Mean y 0.6803
Std Dev x 0.1631
Std Dev y 1.306
trPhi, rad
trPt, (GeV/c)
4
3
2
1
0
−1
−2
−3
−4
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
2500
2000
1500
1000
500
0

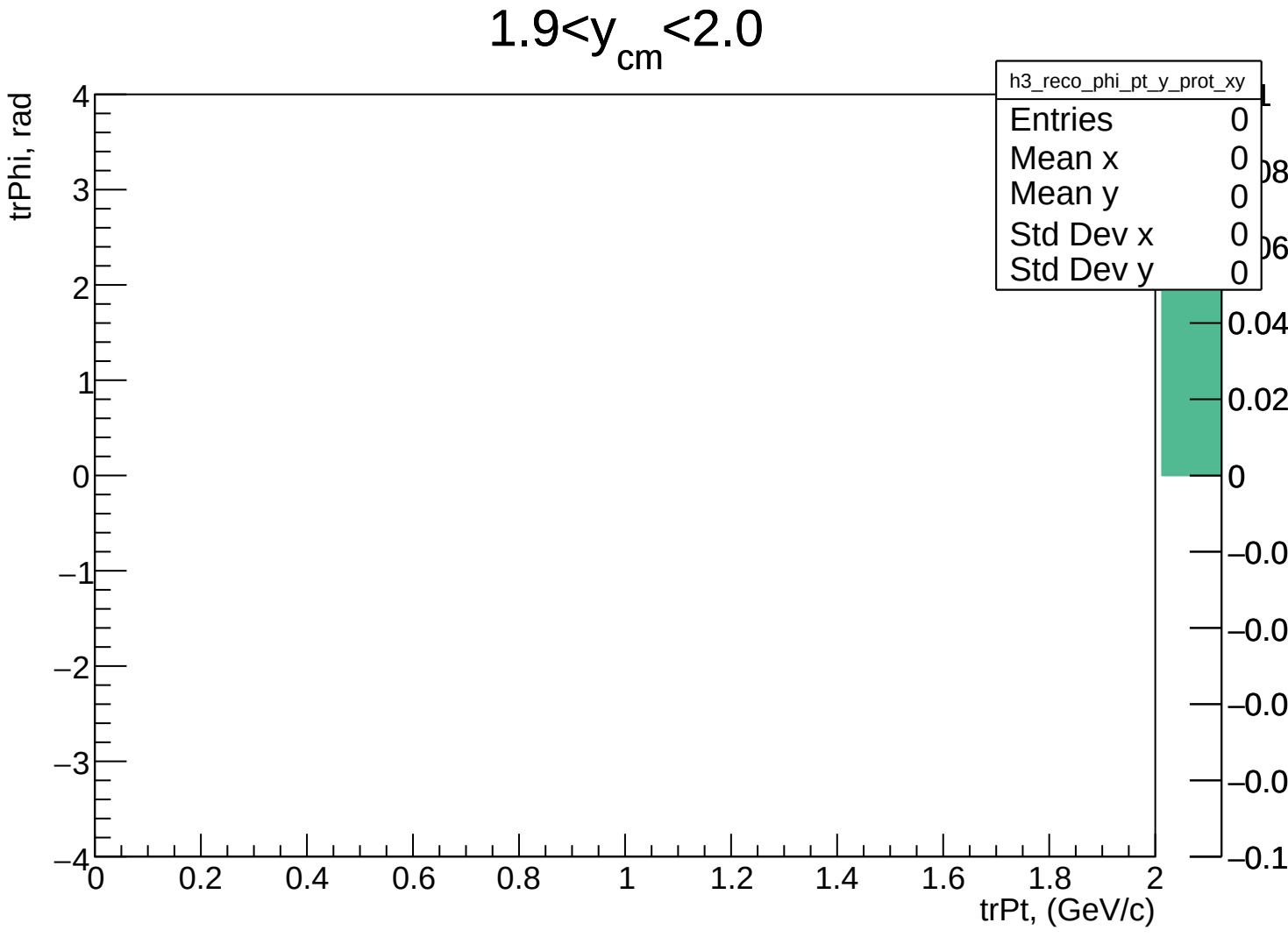

1.4<y_cm<1.5
h3_reco_phi_pt_y_prot_xy
Entries 157043
Mean x 0.677
Mean y 0.9846
Std Dev x 0.1495
Std Dev y 1.247
trPhi, rad
trPt, (GeV/c)
4
3
2
1
0
−1
−2
−3
−4
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
1000
800
600
400
200
0


1.5<y_cm<1.6
h3_reco_phi_pt_y_prot_xy
Entries 24828
Mean x 0.6666
Mean y 1.282
Std Dev x 0.119
Std Dev y 1.027
trPhi, rad
trPt, (GeV/c)
4
3
2
1
0
−1
−2
−3
−4
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
300
250
200
150
100
50
0


1.6<y_cm<1.7
h3_reco_phi_pt_y_prot_xy
Entries 1961
Mean x 0.6648
Mean y 1.491
Std Dev x 0.07748
Std Dev y 0.6744
trPhi, rad
trPt, (GeV/c)
4
3
2
1
0
−1
−2
−3
−4
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
40
30
20
10
0


1.7<y_cm<1.8
h3_reco_phi_pt_y_prot_xy
Entries 21
Mean x 0.6357
Mean y 1.572
Std Dev x 0.03499
Std Dev y 0.1659
trPhi, rad
trPt, (GeV/c)
4
3
2
1
0
−1
−2
−3
−4
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
2
1.5
1
0.5
0


1.8<y_cm<1.9
h3_reco_phi_pt_y_prot_xy
Entries 0
Mean x 0
Mean y 0
Std Dev x 0
Std Dev y 0
trPhi, rad
trPt, (GeV/c)
4
3
2
1
0
−1
−2
−3
−4
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
0.04
0.02
0
−0.0
−0.0
−0.0
−0.0
−0.1


1.9<y_cm<2.0
h3_reco_phi_pt_y_prot_xy
Entries 0
Mean x 0
Mean y 0
Std Dev x 0
Std Dev y 0
trPhi, rad
trPt, (GeV/c)
4
3
2
1
0
−1
−2
−3
−4
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
0.04
0.02
0
−0.1