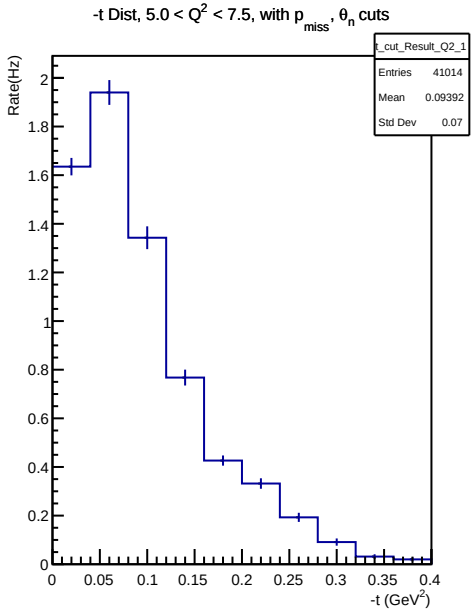
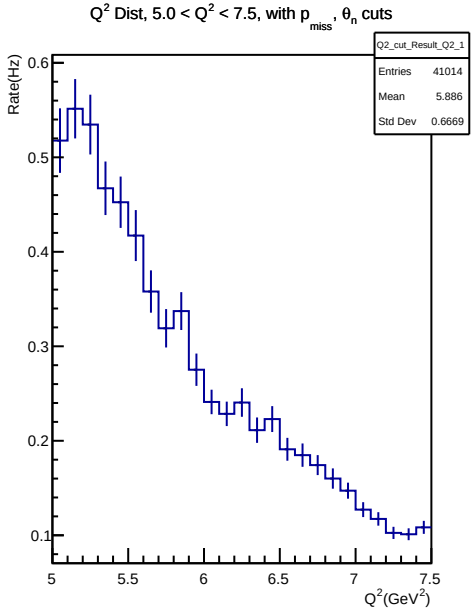
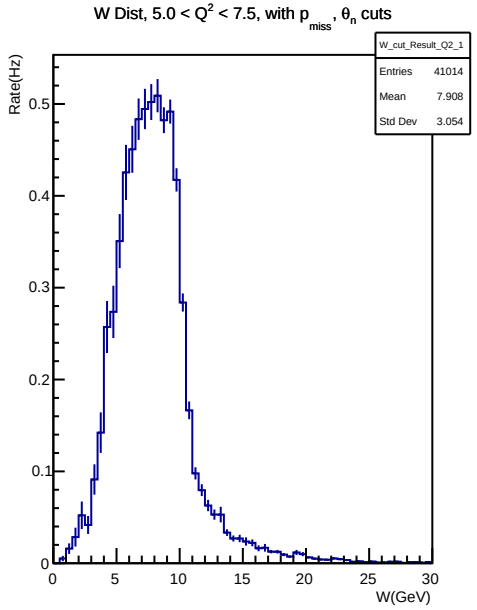
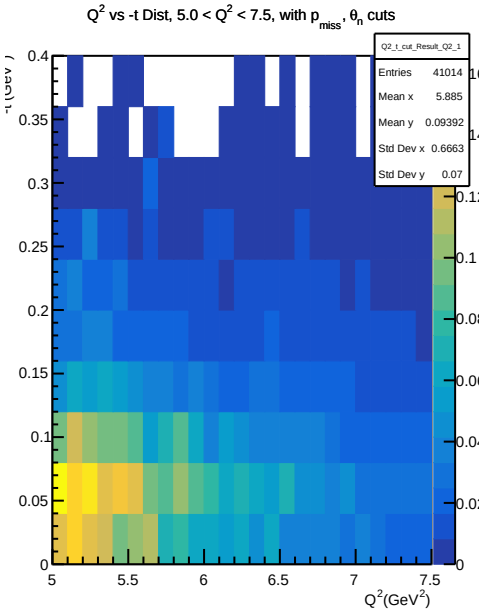
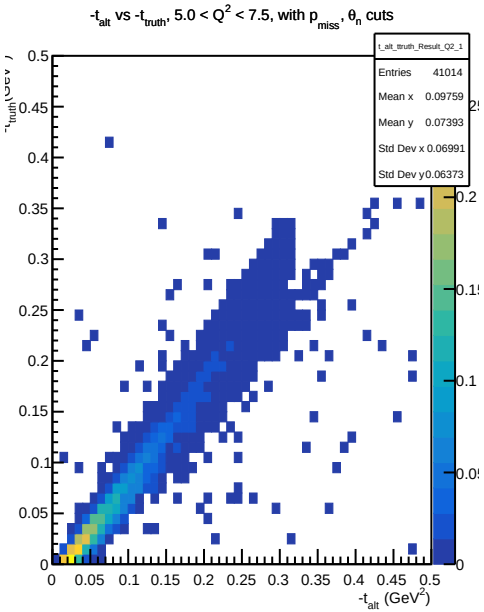


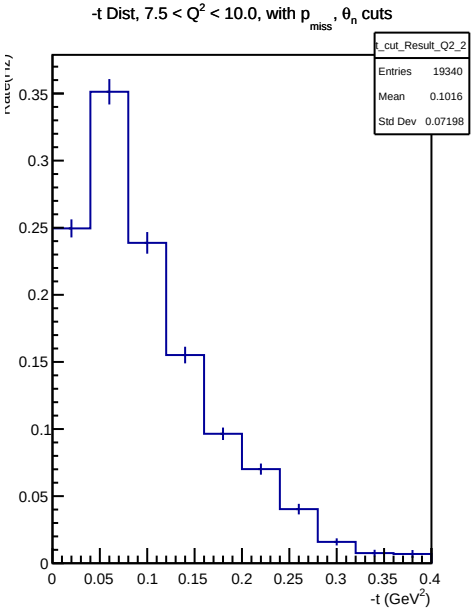


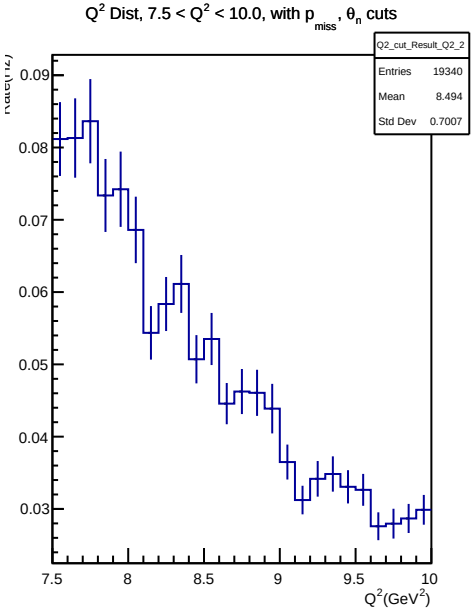


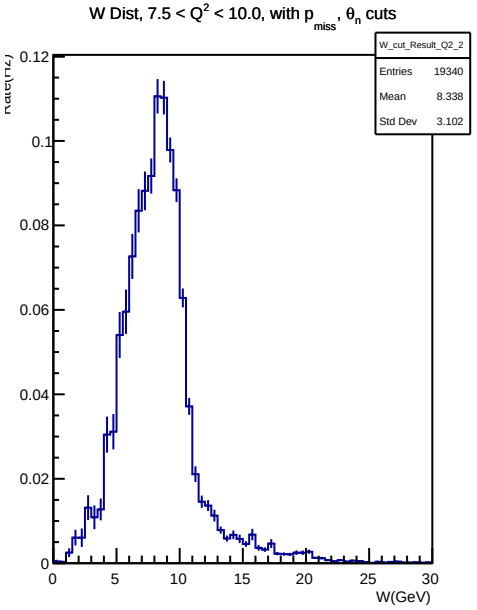


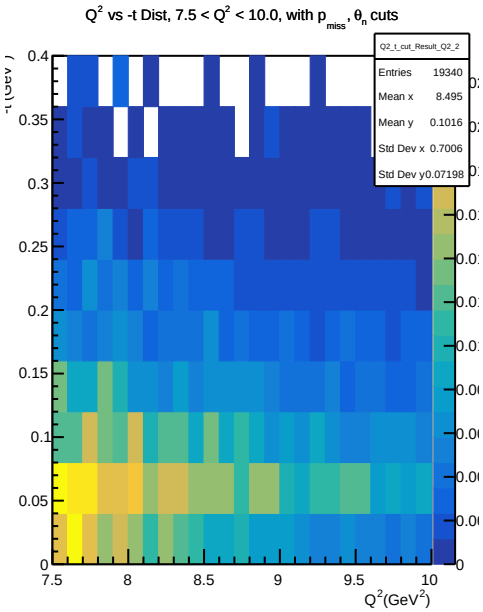


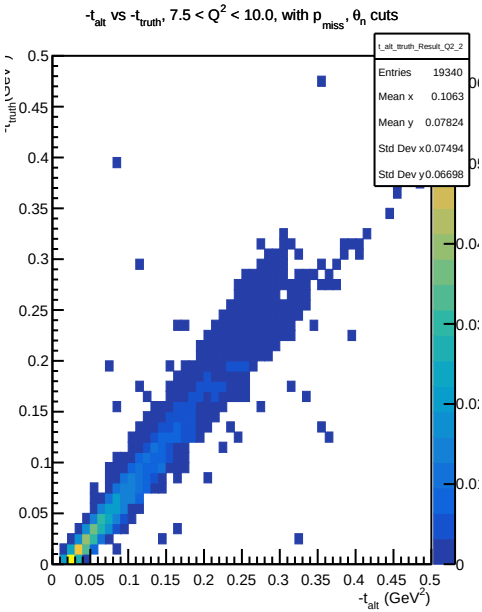
$L = 10^{34}\ cm^{-2}s^{-1}$ assumed in rate calculation



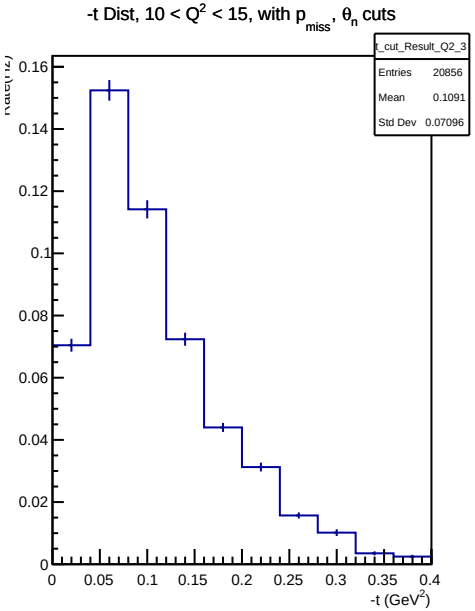


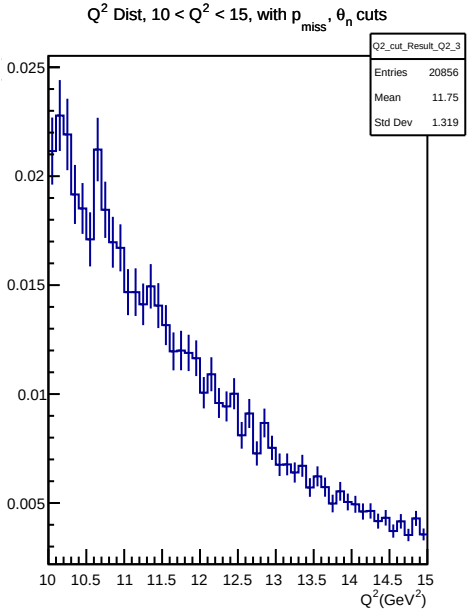


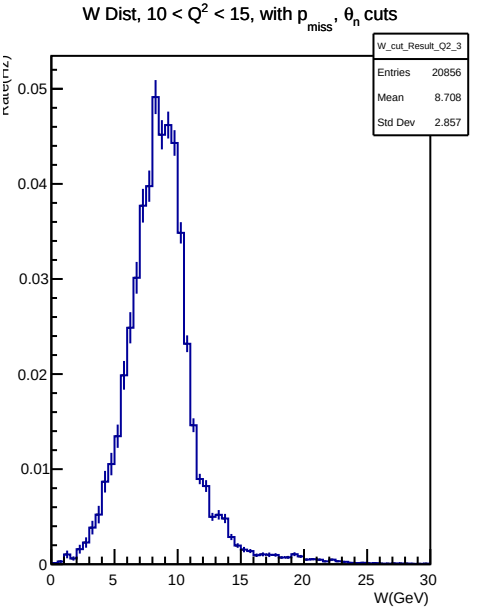


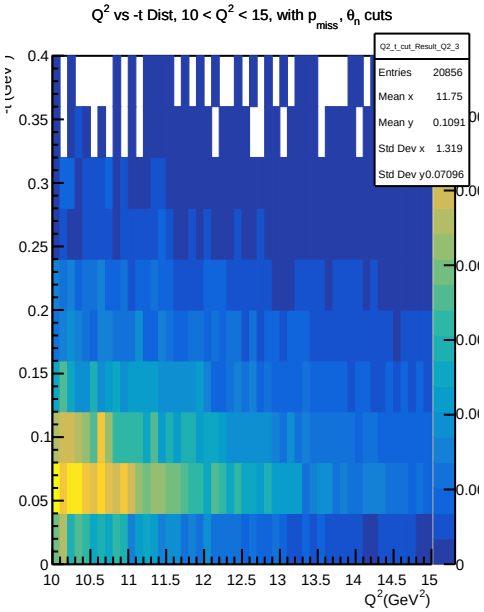


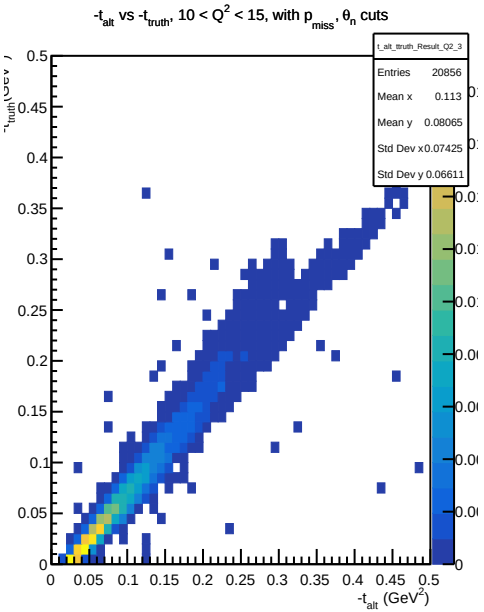
$L = 10^{34}\ cm^{-2}s^{-1}$ assumed in rate calculation



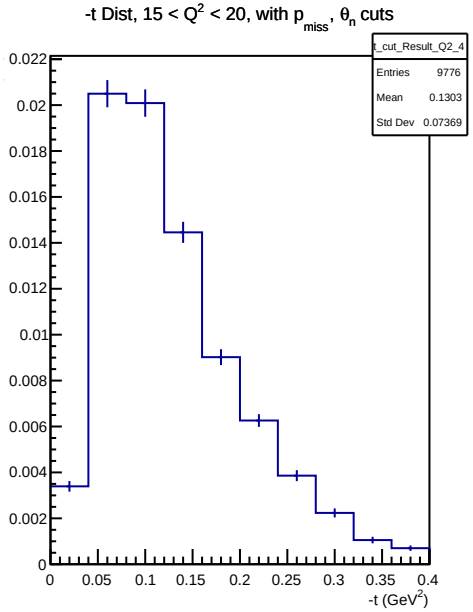


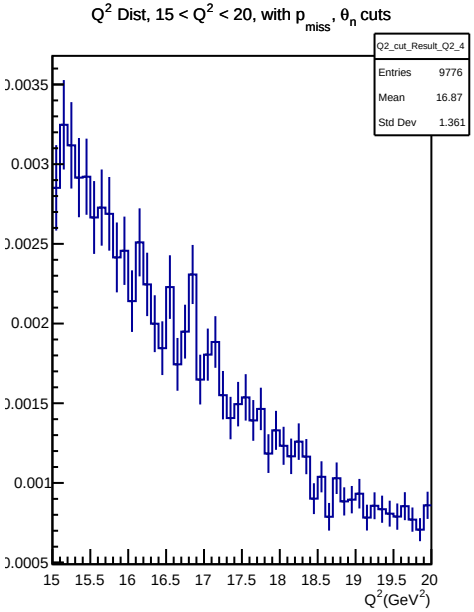


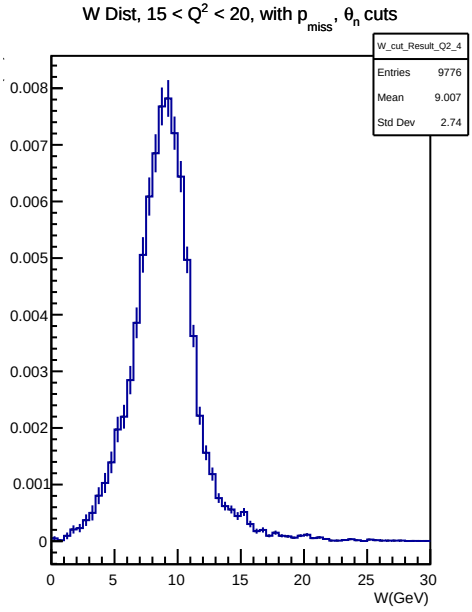


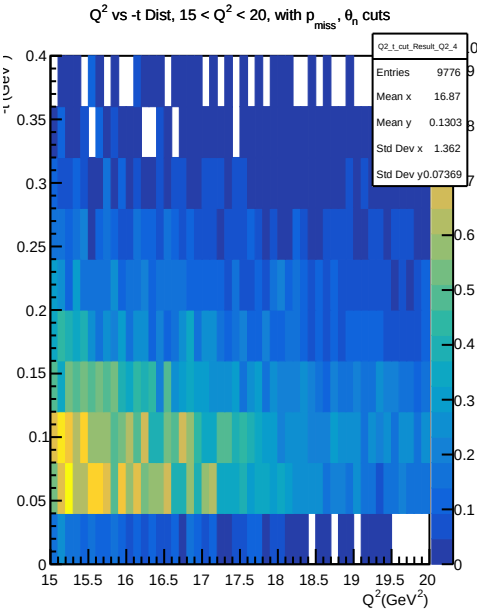


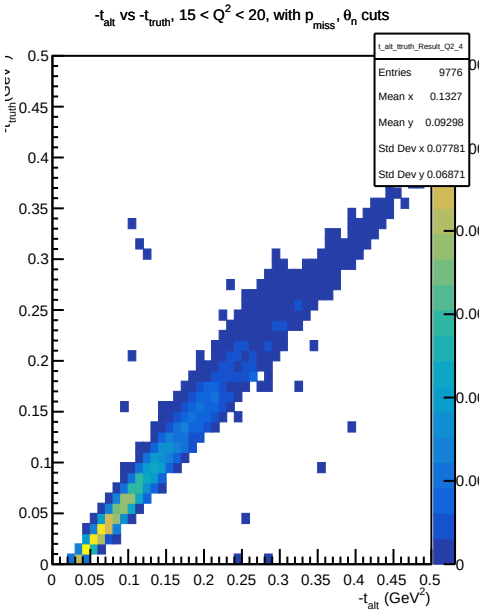
$L = 10^{34}\ cm^{-2}s^{-1}$ assumed in rate calculation



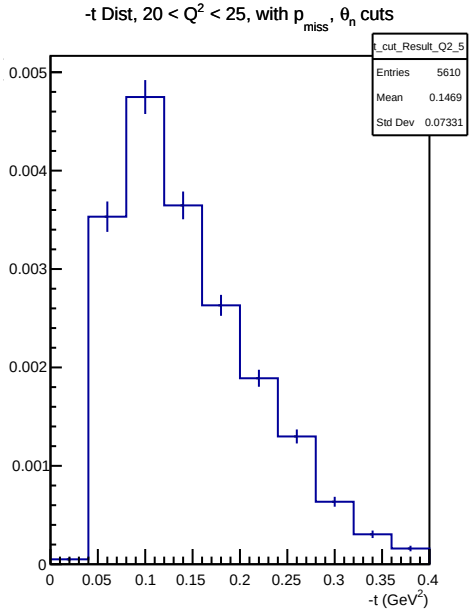


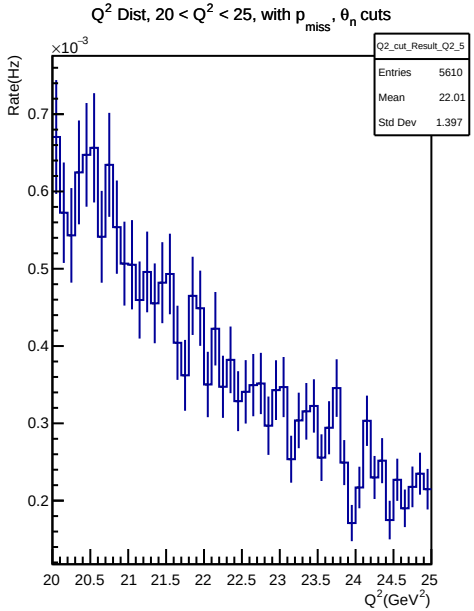


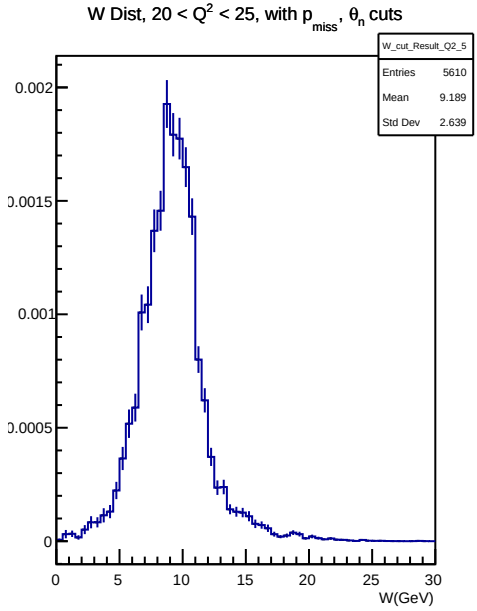


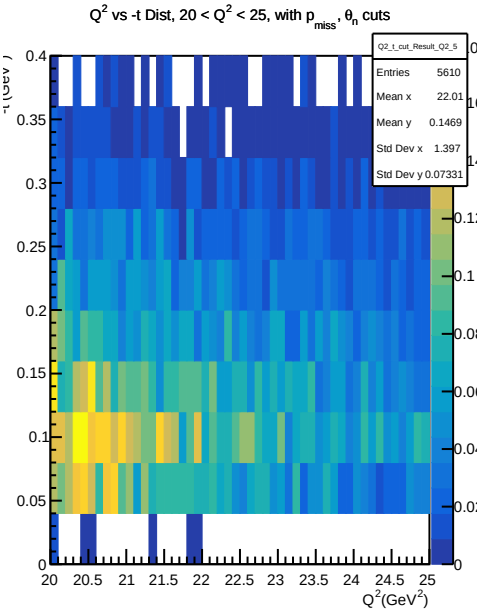


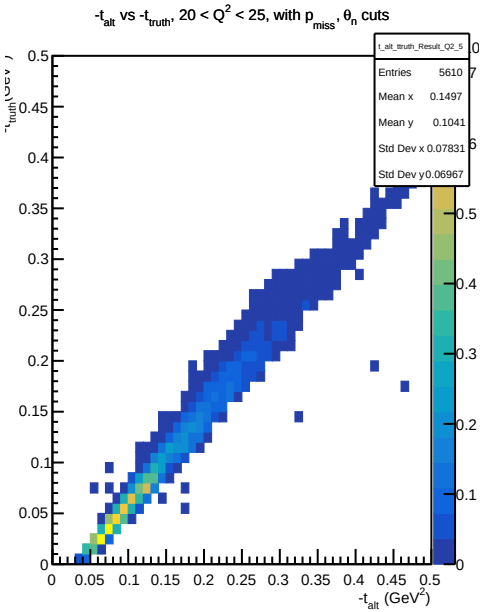
$L = 10^{34}\ cm^{-2}s^{-1}$ assumed in rate calculation



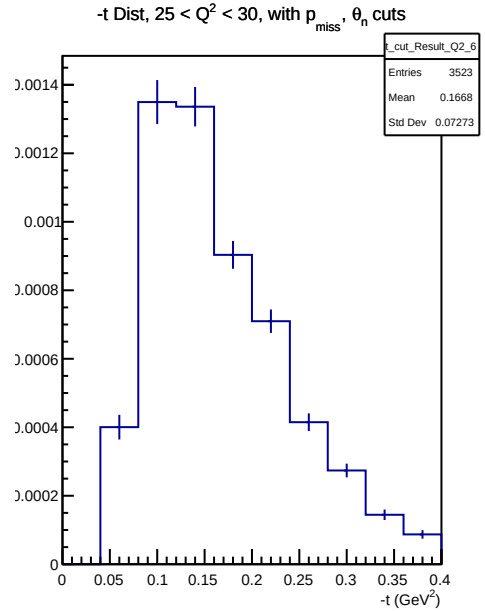


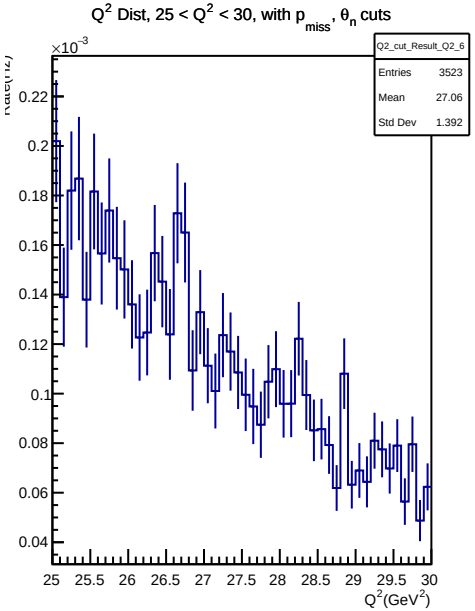


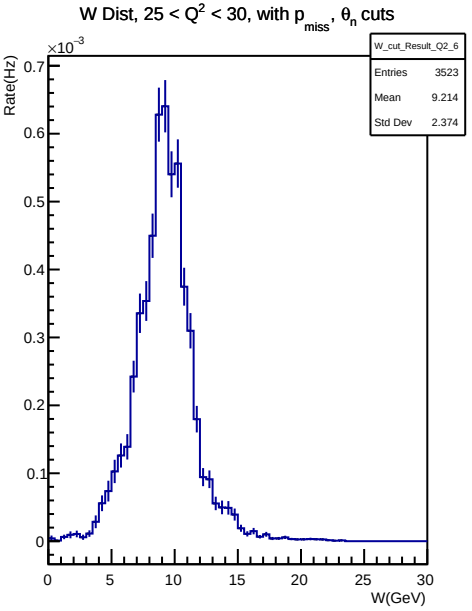


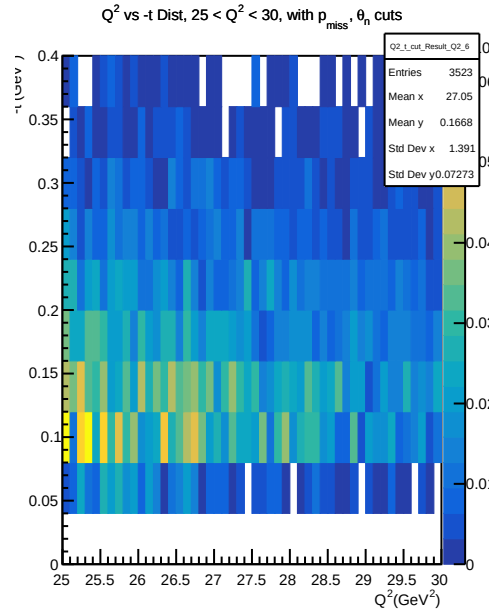


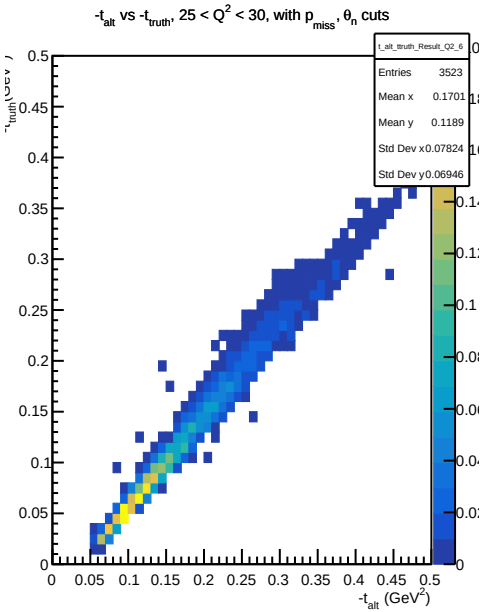
$L = 10^{34}\ cm^{-2}s^{-1}$ assumed in rate calculation



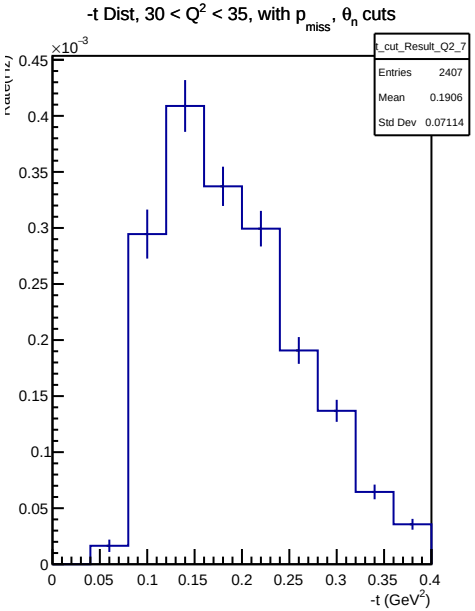


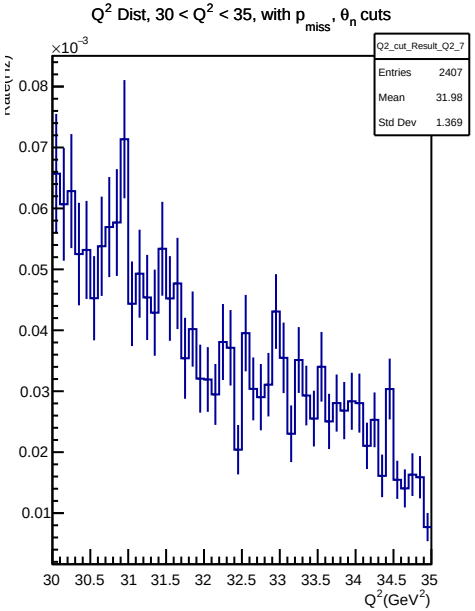


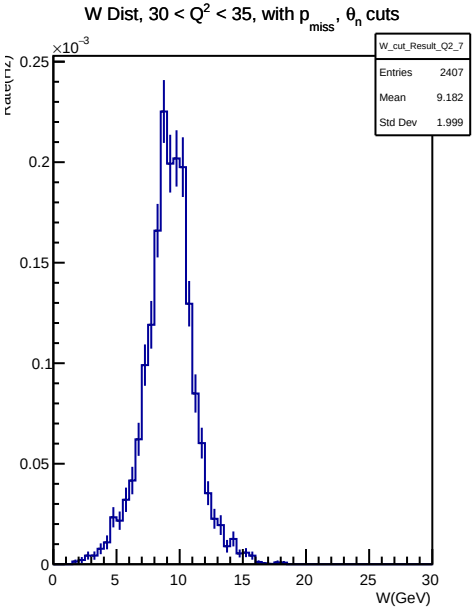


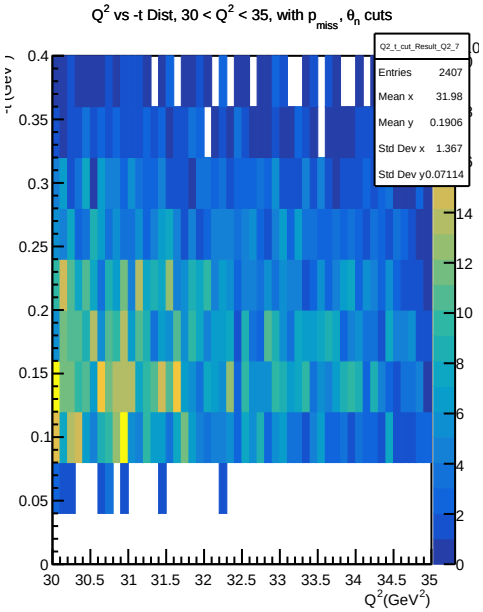


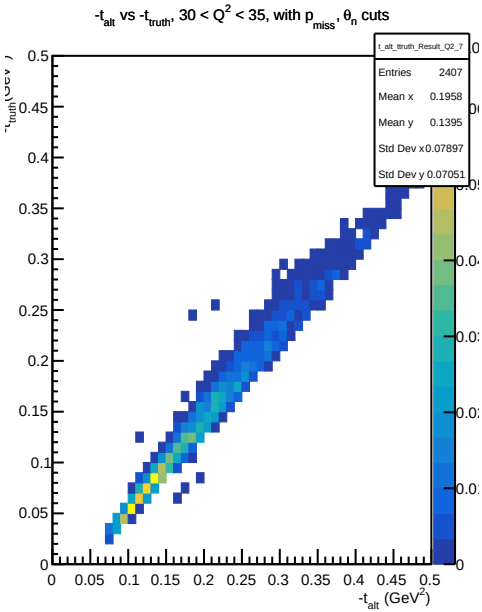
$L = 10^{34}\ cm^{-2}s^{-1}$ assumed in rate calculation



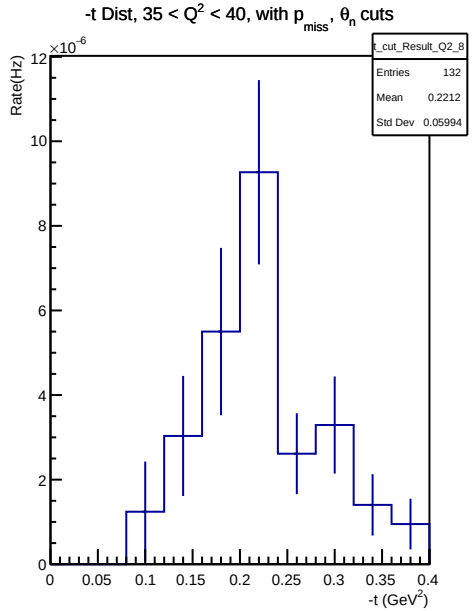


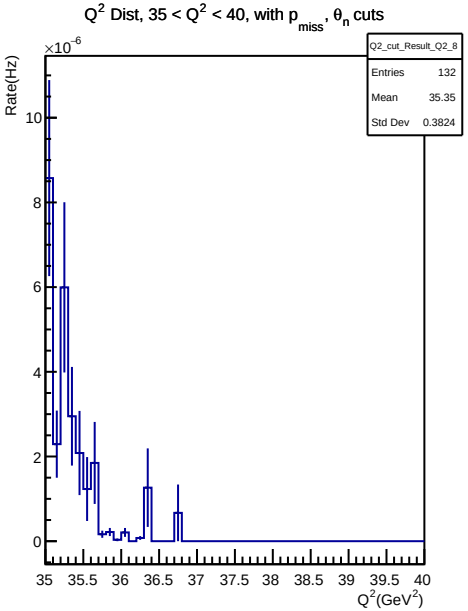


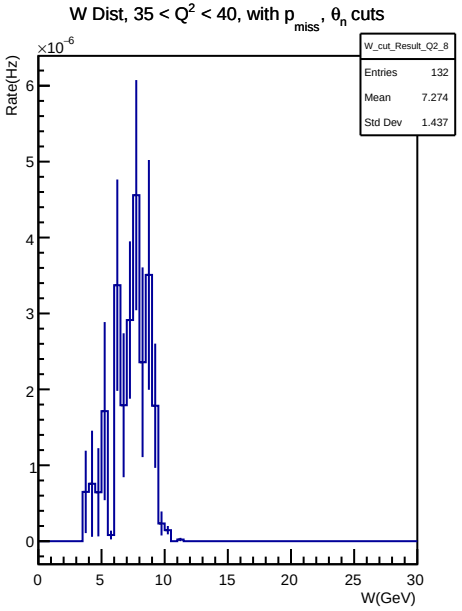


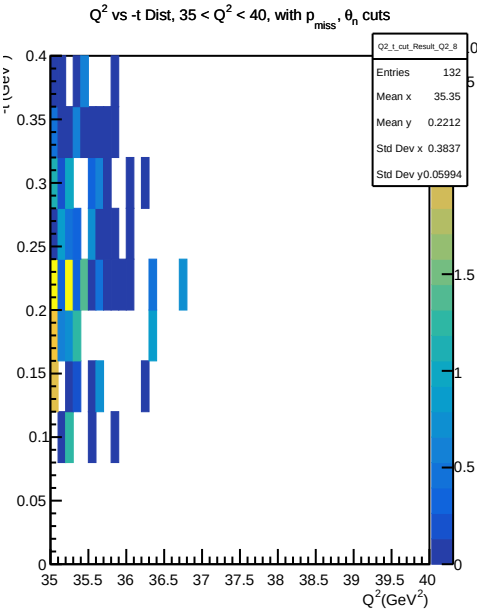


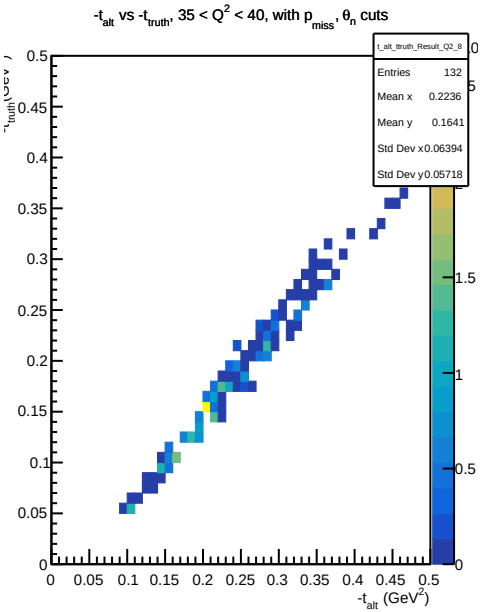
$L = 10^{34}\ cm^{-2}s^{-1}$ assumed in rate calculation



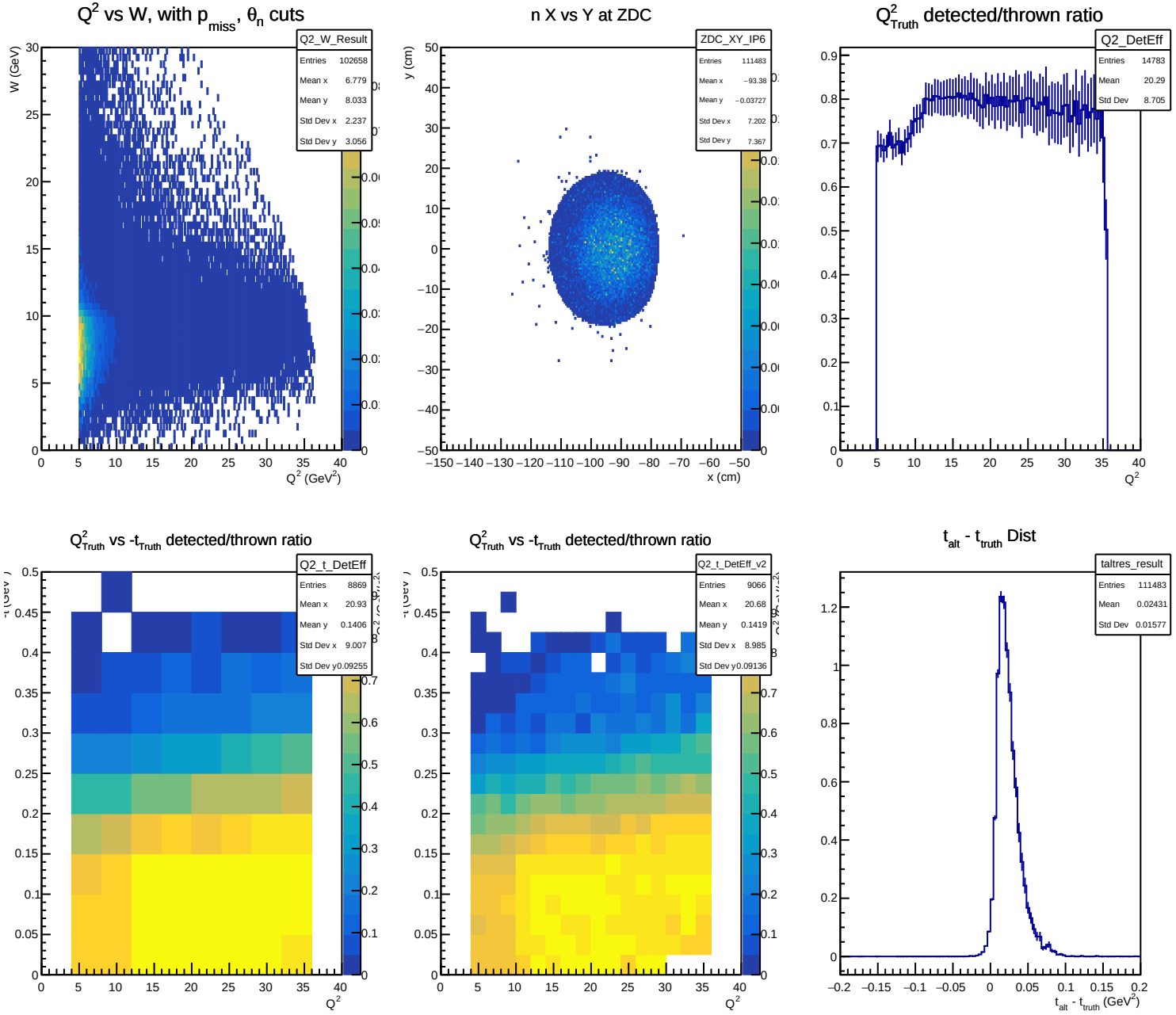


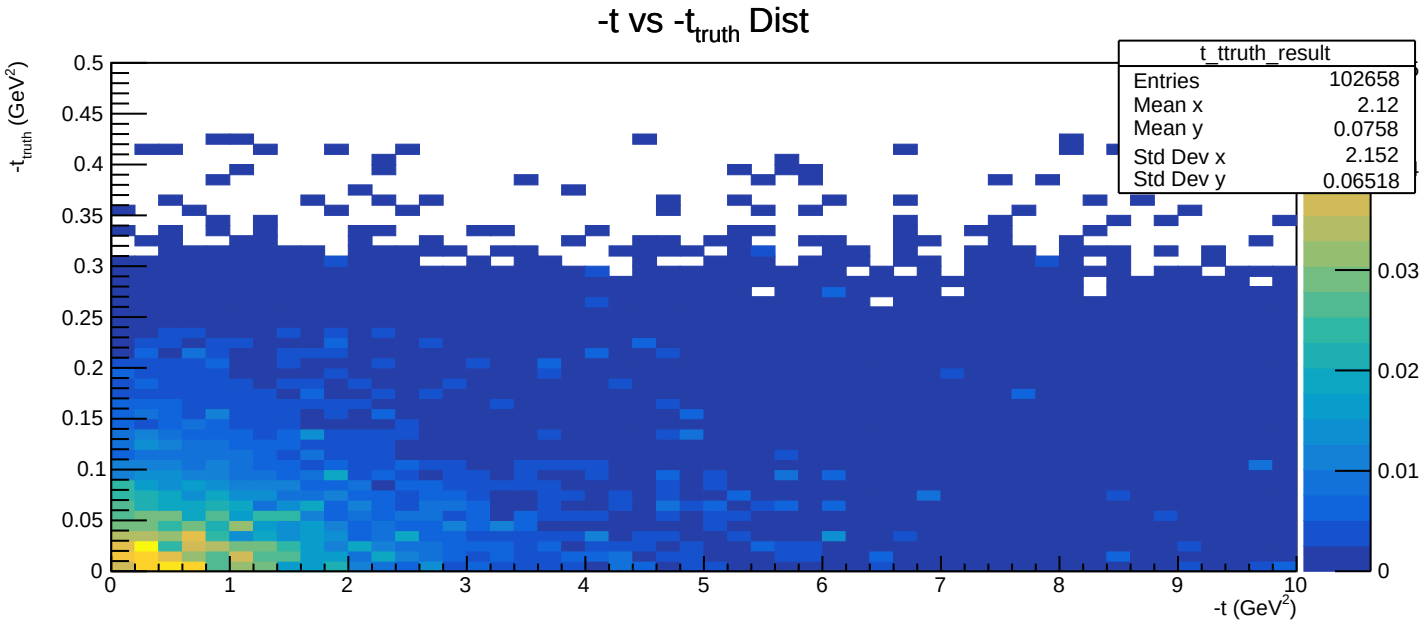


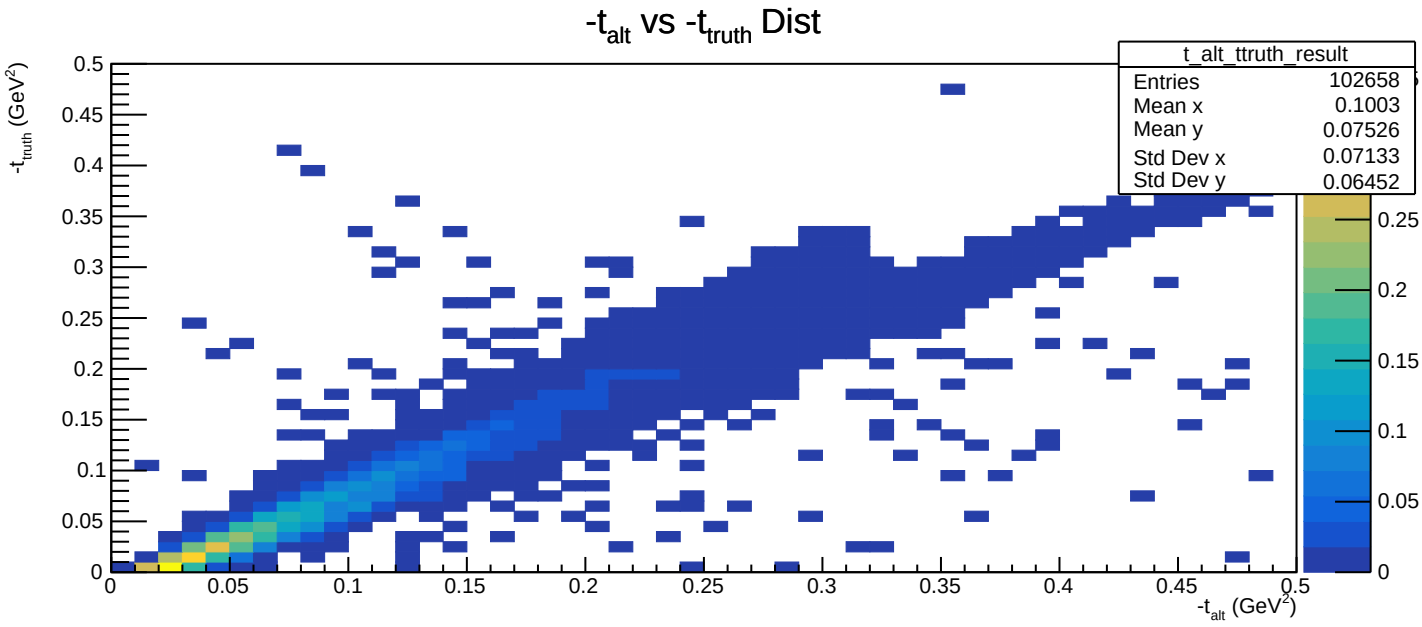


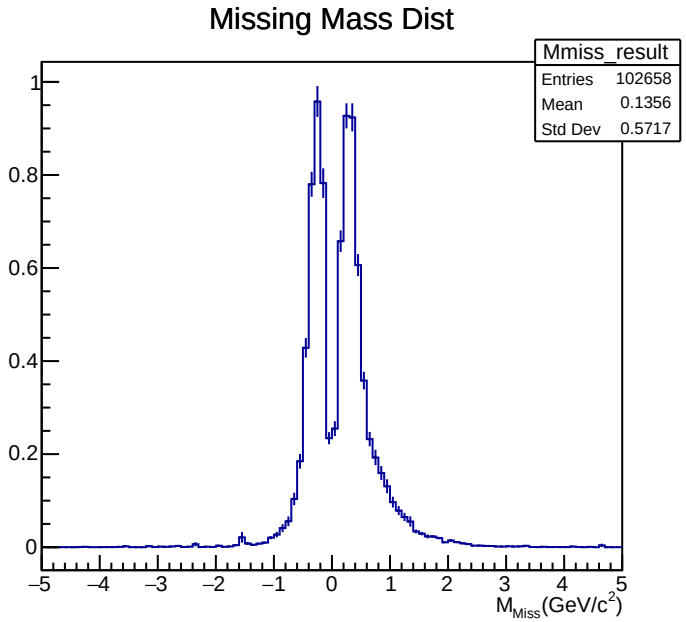


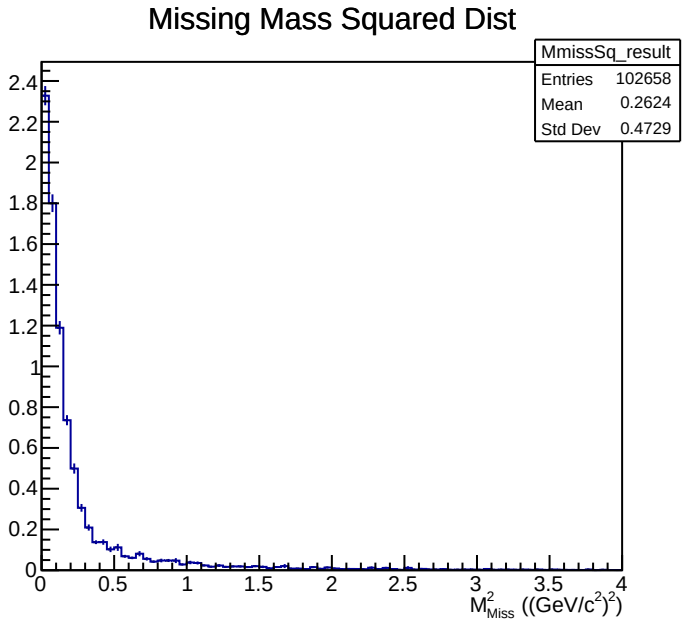
$L = 10^{34}\ cm^{-2}s^{-1}$ assumed in rate calculation

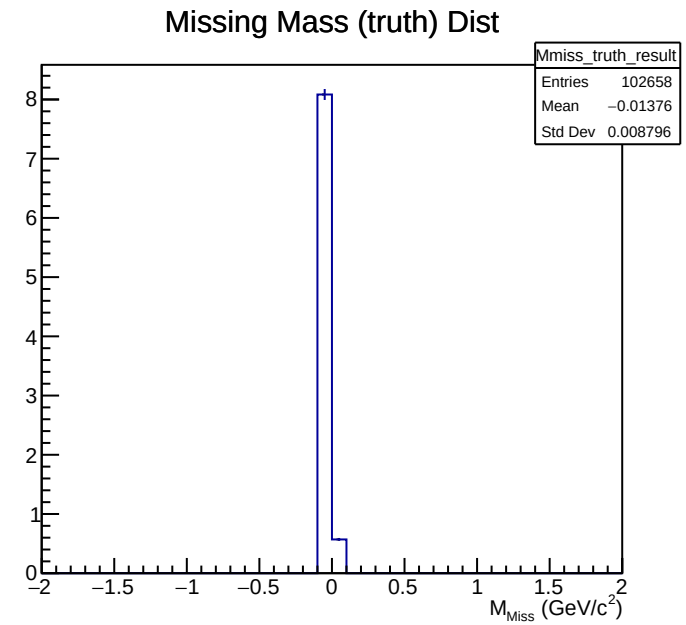

Q^2 vs W, with p_{miss}, θ_n cuts
Q2_W_Result
Entries 102658
Mean x 6.779
Mean y 8.033
Std Dev x 2.237
Std Dev y 3.056
W (GeV)
Q^2 (GeV^2)
n X vs Y at ZDC
ZDC_XY_IP6
Entries 111483
Mean x −93.38
Mean y −0.03727
Std Dev x 7.202
Std Dev y 7.367
y (cm)
x (cm)
Q^2_{Truth} detected/thrown ratio
Q2_DetEff
Entries 14783
Mean 20.29
Std Dev 8.705
Q^2
Q^2_{Truth} vs $-t_{Truth}$ detected/thrown ratio
Q2_t_DetEff
Entries 8869
Mean x 20.93
Mean y 0.1406
Std Dev x 9.007
Std Dev y 0.09255
Q^2
Q^2_{Truth} vs $-t_{Truth}$ detected/thrown ratio
Q2_t_DetEff_v2
Entries 9066
Mean x 20.68
Mean y 0.1419
Std Dev x 8.985
Std Dev y 0.09136
Q^2
t_{alt} - t_{truth} Dist
taltres_result
Entries 111483
Mean 0.02431
Std Dev 0.01577
t_{alt} - t_{truth} (GeV^2)

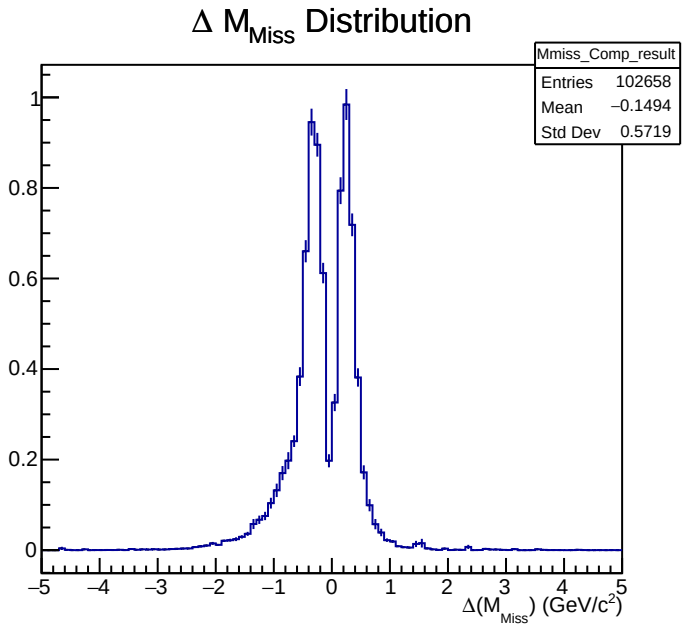

-t vs -t_truth Dist
t_ttruth_result
Entries 102658
Mean x 2.12
Mean y 0.0758
Std Dev x 2.152
Std Dev y 0.06518
-t_truth (GeV^2)
-t (GeV^2)

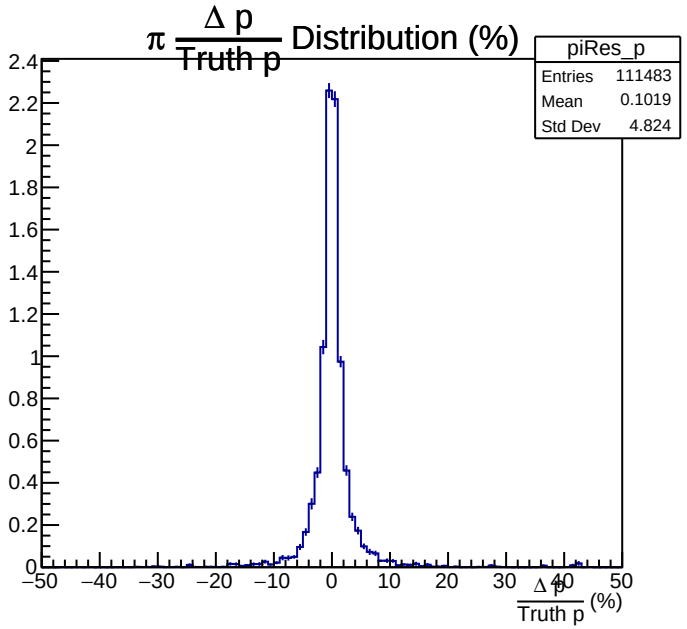

-t_alt vs -t_truth Dist
t_alt_ttruth_result
Entries 102658
Mean x 0.1003
Mean y 0.07526
Std Dev x 0.07133
Std Dev y 0.06452
-t_truth (GeV^2)
-t_alt (GeV^2)

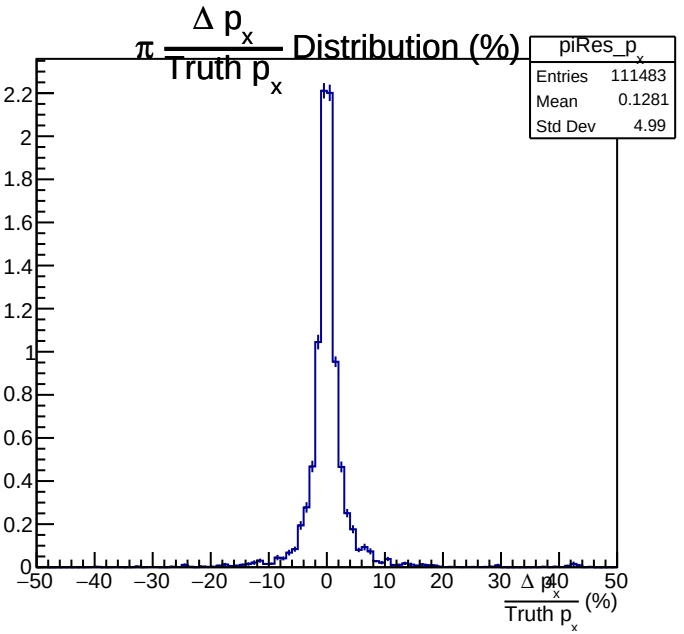

Missing Mass Dist
Mmiss_result
Entries 102658
Mean 0.1356
Std Dev 0.5717
M_Miss(GeV/c^2)

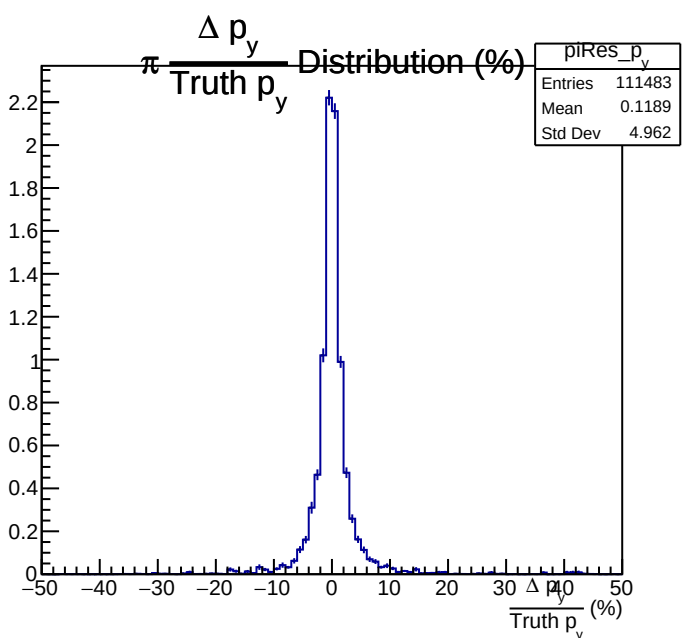

Missing Mass Squared Dist
MmissSq_result
Entries 102658
Mean 0.2624
Std Dev 0.4729
M^2_Miss ((GeV/c^2)^2)

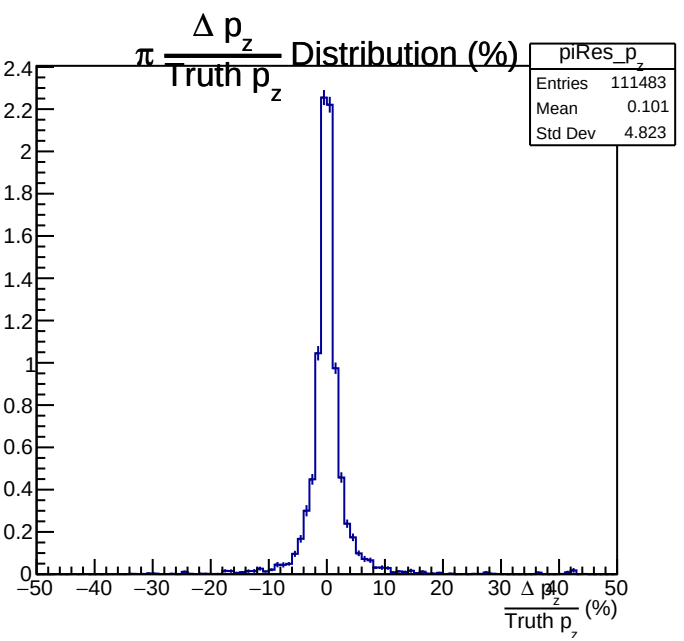

Missing Mass (truth) Dist
Mmiss_truth_result
Entries 102658
Mean −0.01376
Std Dev 0.008796
M_Miss (GeV/c^2)

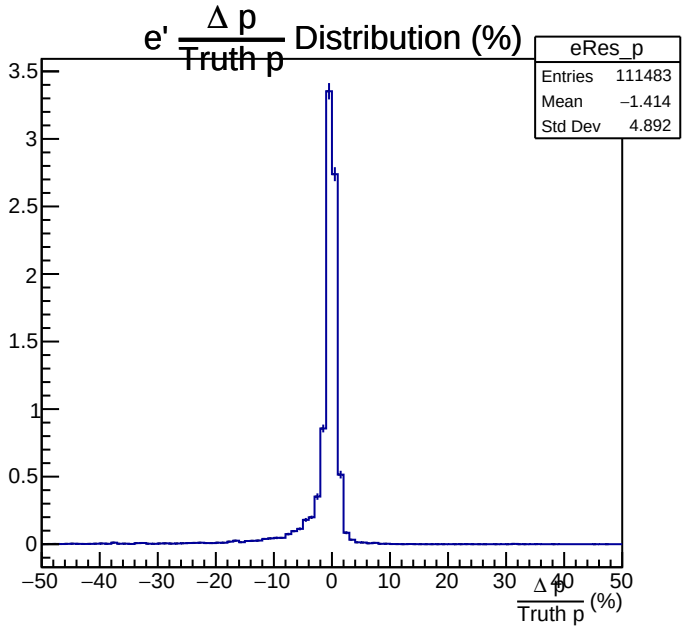

Δ M_Miss Distribution
Mmiss_Comp_result
Entries 102658
Mean −0.1494
Std Dev 0.5719
Δ(M_Miss) (GeV/c^2)

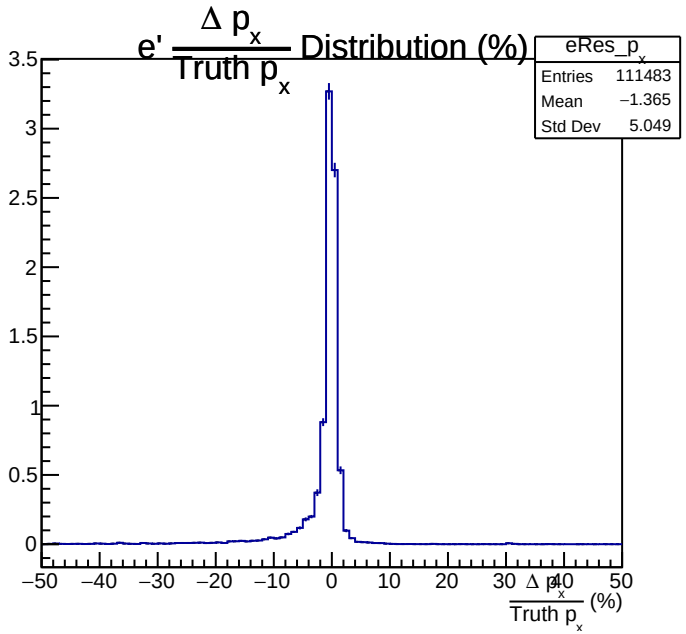

$\pi \frac{\Delta p}{\text{Truth } p}$ Distribution (%)
piRes_p
Entries 111483
Mean 0.1019
Std Dev 4.824
$\frac{\Delta p}{\text{Truth } p}$ (%)

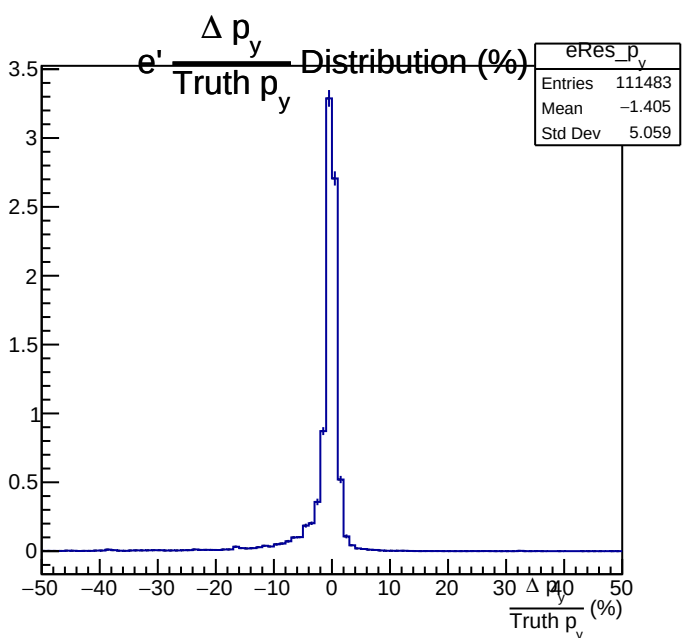

$\pi \frac{\Delta p_x}{\text{Truth } p_x}$ Distribution (%)
piRes_p_x
Entries 111483
Mean 0.1281
Std Dev 4.99
$\frac{\Delta p_x}{\text{Truth } p_x}$ (%)

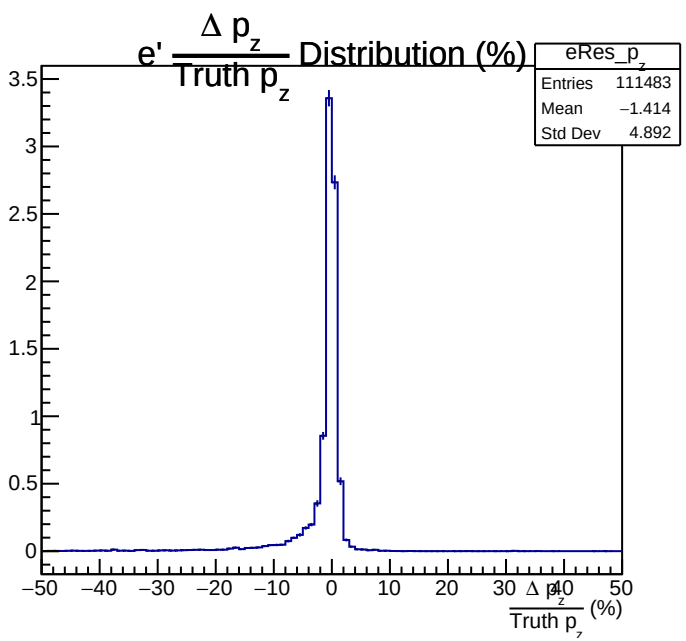

$\pi \frac{\Delta p_y}{\text{Truth } p_y}$ Distribution (%)
piRes_p_y
Entries 111483
Mean 0.1189
Std Dev 4.962
$\frac{\Delta p_y}{\text{Truth } p_y}$ (%)

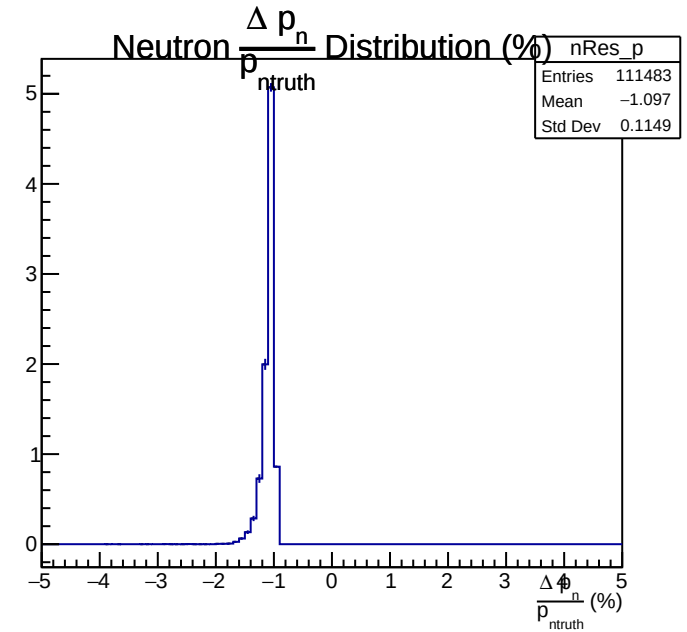

$\pi \frac{\Delta p_z}{\text{Truth } p_z}$ Distribution (%)
piRes_p_z
Entries 111483
Mean 0.101
Std Dev 4.823
$\frac{\Delta p_z}{\text{Truth } p_z}$ (%)

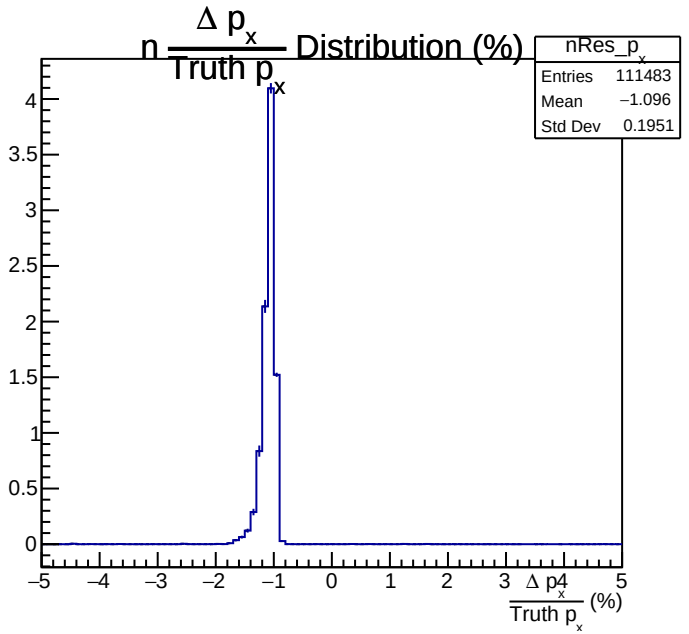

e' Δ p / Truth p Distribution (%)
eRes_p
Entries 111483
Mean −1.414
Std Dev 4.892
Δ p / Truth p (%)

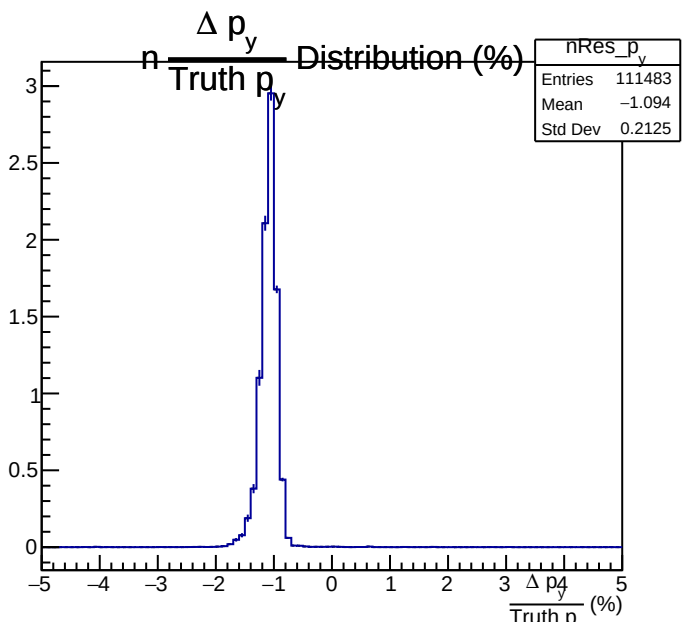

e' Δ p_x / Truth p_x Distribution (%)
eRes_p_x
Entries 111483
Mean −1.365
Std Dev 5.049
Δ p_x / Truth p_x (%)

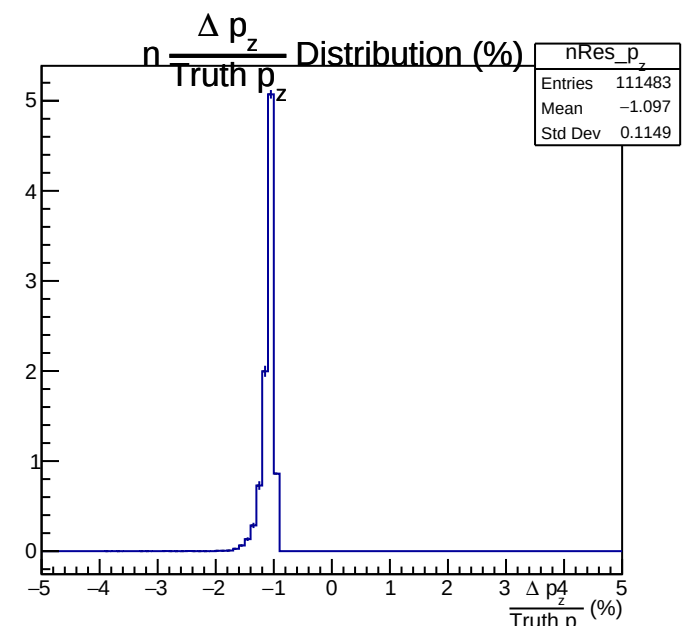

e' Δ p_y / Truth p_y Distribution (%)
eRes_p_y
Entries 111483
Mean −1.405
Std Dev 5.059
Δ p_y / Truth p_y (%)

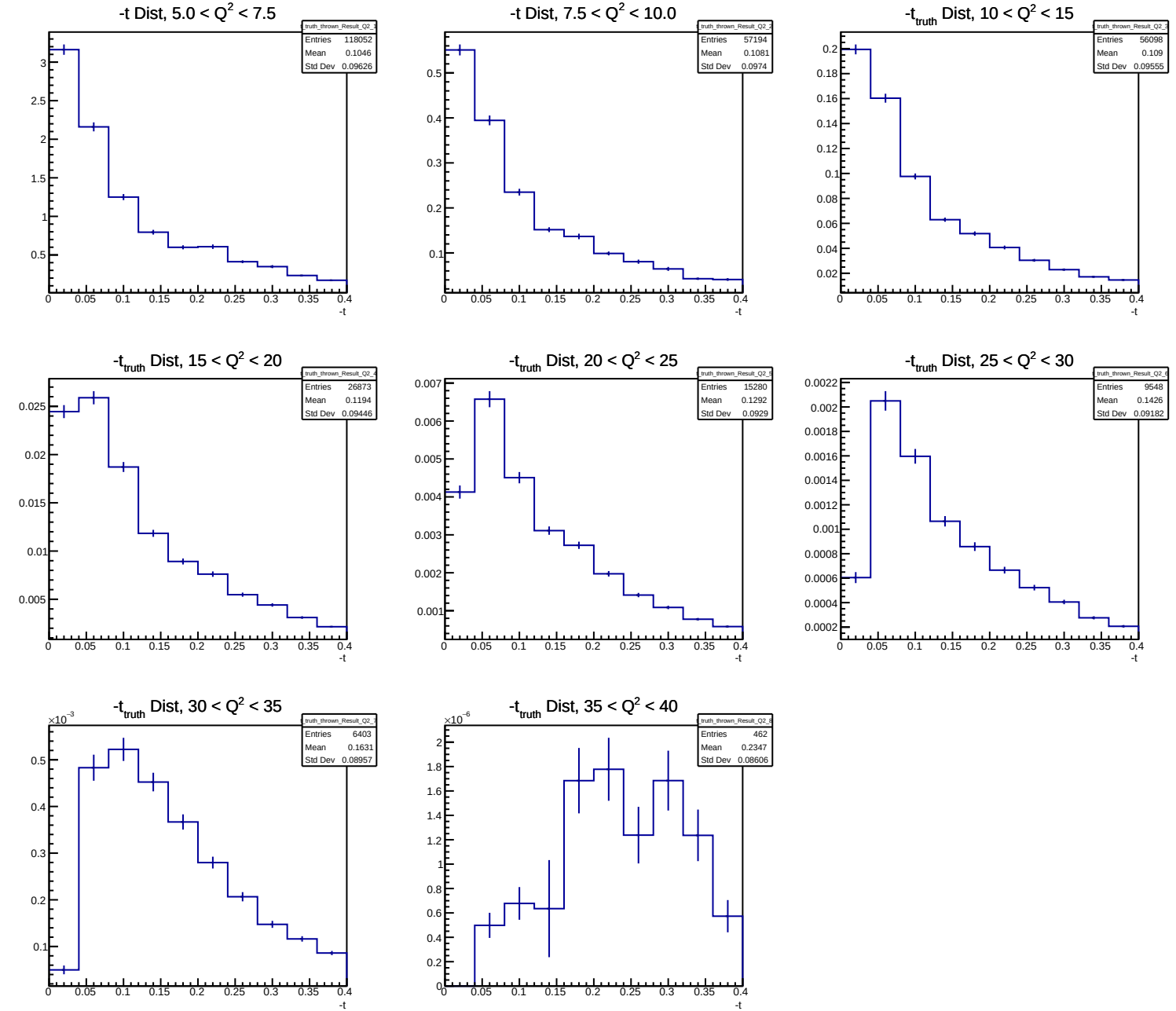

e' Δ p_z / Truth p_z Distribution (%)
eRes_p_z
Entries 111483
Mean −1.414
Std Dev 4.892
Δ p_z / Truth p_z (%)

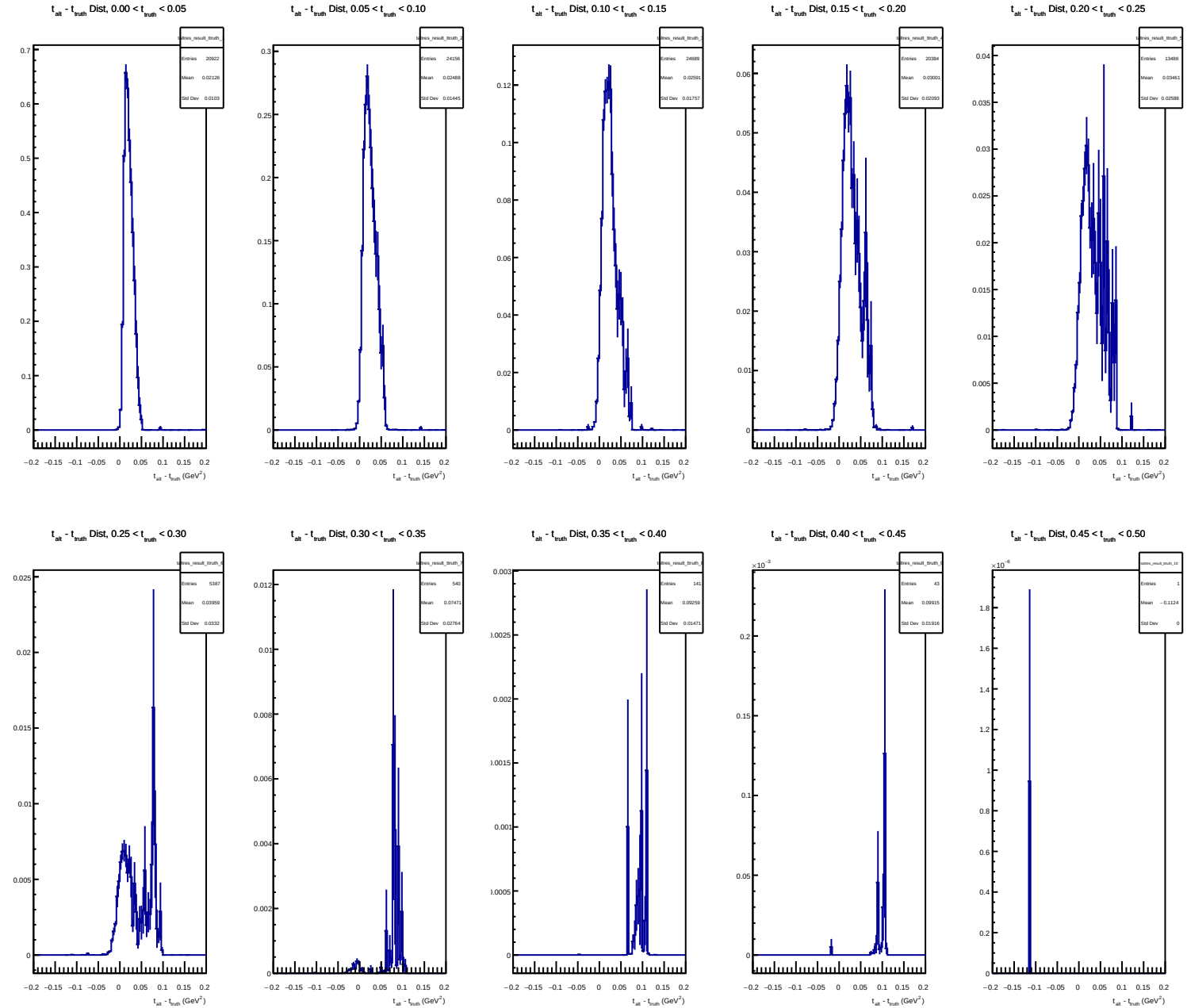

Neutron $\frac{\Delta p_n}{p_{ntruth}}$ Distribution (%)
nRes_p
Entries 111483
Mean −1.097
Std Dev 0.1149
$\frac{\Delta p_n}{p_{ntruth}}$ (%)


n $\frac{\Delta p_x}{\text{Truth } p_x}$ Distribution (%)
nRes_p_x
Entries 111483
Mean −1.096
Std Dev 0.1951
$\frac{\Delta p_x}{\text{Truth } p_x}$ (%)


n $\frac{\Delta p_y}{\text{Truth } p_y}$ Distribution (%)
nRes_p_y
Entries 111483
Mean −1.094
Std Dev 0.2125
$\frac{\Delta p_y}{\text{Truth } p_y}$ (%)


n $\frac{\Delta p_z}{\text{Truth } p_z}$ Distribution (%)
nRes_p_z
Entries 111483
Mean −1.097
Std Dev 0.1149
$\frac{\Delta p_z}{\text{Truth } p_z}$ (%)


-t Dist, 5.0 < Q^2 < 7.5
t_truth_thrown_Result_Q2_1
Entries 118052
Mean 0.1046
Std Dev 0.09626
-t Dist, 7.5 < Q^2 < 10.0
t_truth_thrown_Result_Q2_2
Entries 57194
Mean 0.1081
Std Dev 0.0974
-t_truth Dist, 10 < Q^2 < 15
t_truth_thrown_Result_Q2_3
Entries 56098
Mean 0.109
Std Dev 0.09555
-t_truth Dist, 15 < Q^2 < 20
t_truth_thrown_Result_Q2_4
Entries 26873
Mean 0.1194
Std Dev 0.09446
-t_truth Dist, 20 < Q^2 < 25
t_truth_thrown_Result_Q2_5
Entries 15280
Mean 0.1292
Std Dev 0.0929
-t_truth Dist, 25 < Q^2 < 30
t_truth_thrown_Result_Q2_6
Entries 9548
Mean 0.1426
Std Dev 0.09182
-t_truth Dist, 30 < Q^2 < 35
t_truth_thrown_Result_Q2_7
Entries 6403
Mean 0.1631
Std Dev 0.08957
-t_truth Dist, 35 < Q^2 < 40
t_truth_thrown_Result_Q2_8
Entries 462
Mean 0.2347
Std Dev 0.08606
-t


t_alt - t_truth Dist, 0.00 < t_truth < 0.05
Entries 20922
Mean 0.02126
Std Dev 0.0103
t_alt - t_truth Dist, 0.05 < t_truth < 0.10
Entries 24158
Mean 0.02488
Std Dev 0.01445
t_alt - t_truth Dist, 0.10 < t_truth < 0.15
Entries 24689
Mean 0.02591
Std Dev 0.01757
t_alt - t_truth Dist, 0.15 < t_truth < 0.20
Entries 20384
Mean 0.03001
Std Dev 0.02093
t_alt - t_truth Dist, 0.20 < t_truth < 0.25
Entries 13486
Mean 0.03461
Std Dev 0.02588
t_alt - t_truth Dist, 0.25 < t_truth < 0.30
Entries 5387
Mean 0.03959
Std Dev 0.0332
t_alt - t_truth Dist, 0.30 < t_truth < 0.35
Entries 540
Mean 0.07471
Std Dev 0.02764
t_alt - t_truth Dist, 0.35 < t_truth < 0.40
Entries 141
Mean 0.09259
Std Dev 0.01471
t_alt - t_truth Dist, 0.40 < t_truth < 0.45
Entries 43
Mean 0.09915
Std Dev 0.01916
t_alt - t_truth Dist, 0.45 < t_truth < 0.50
Entries 1
Mean −0.1124
Std Dev 0
t_alt - t_truth (GeV^2)