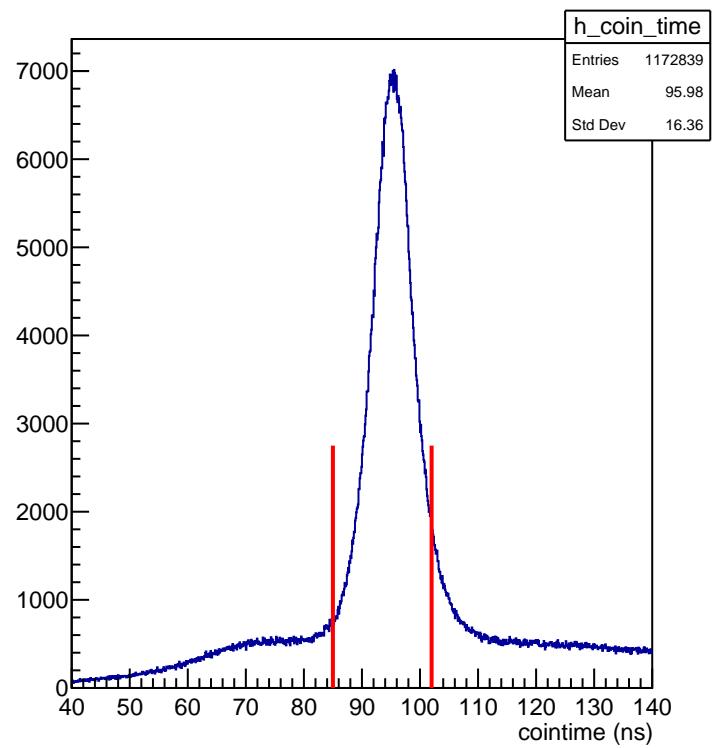
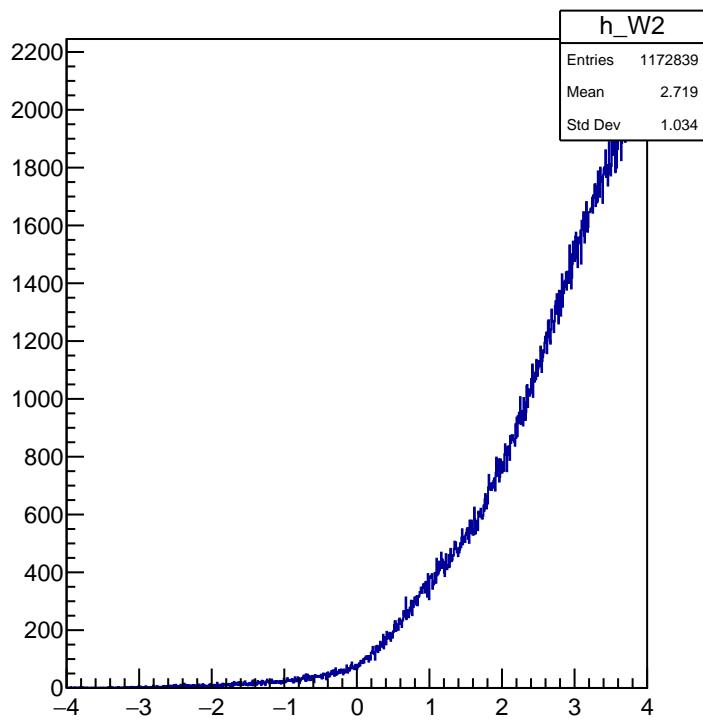


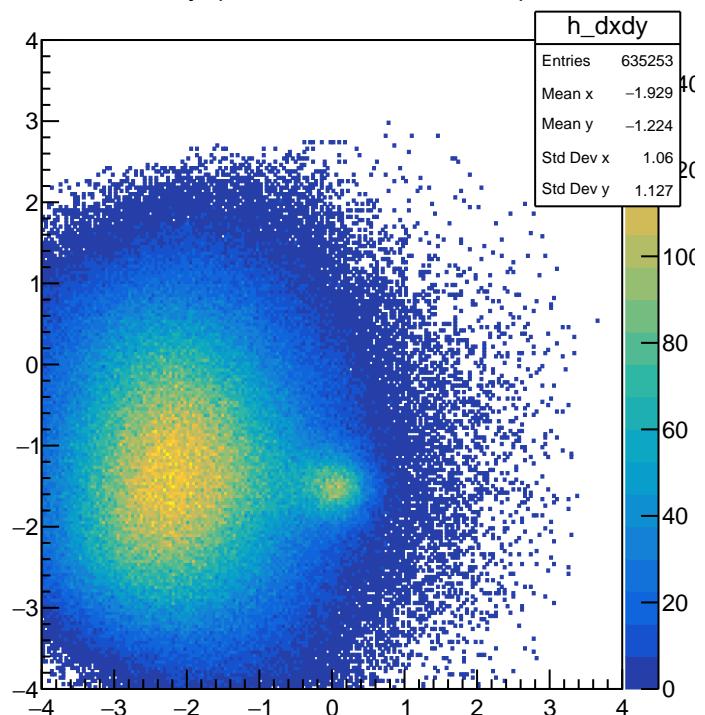
cointime (no cuts)



W2

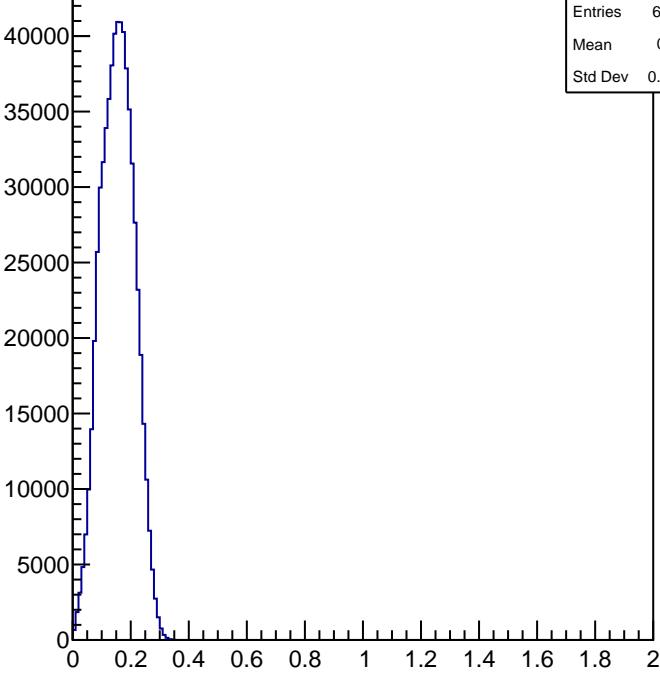


dxdy (cointime cut included)

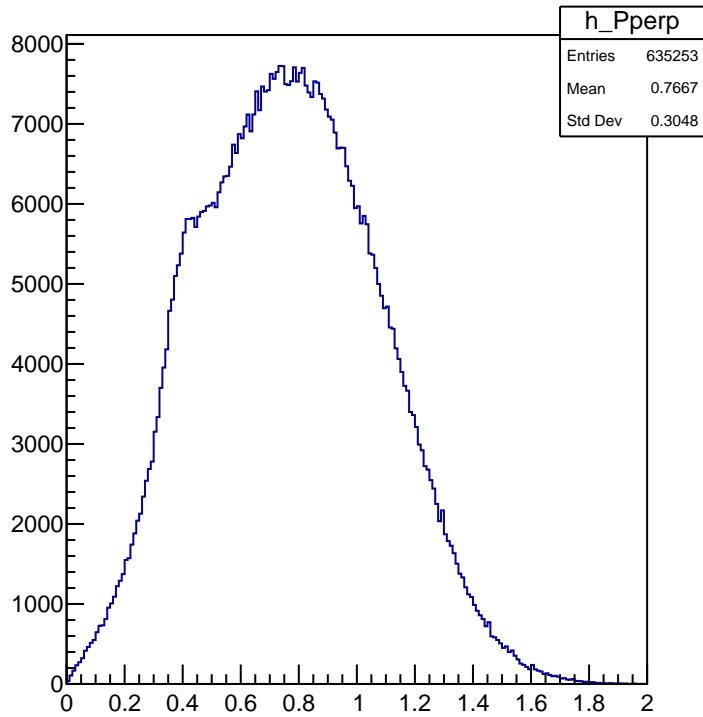


theta_pq only with cointime cut

h_theta_pq
Entries 635253
Mean 0.1548
Std Dev 0.05638

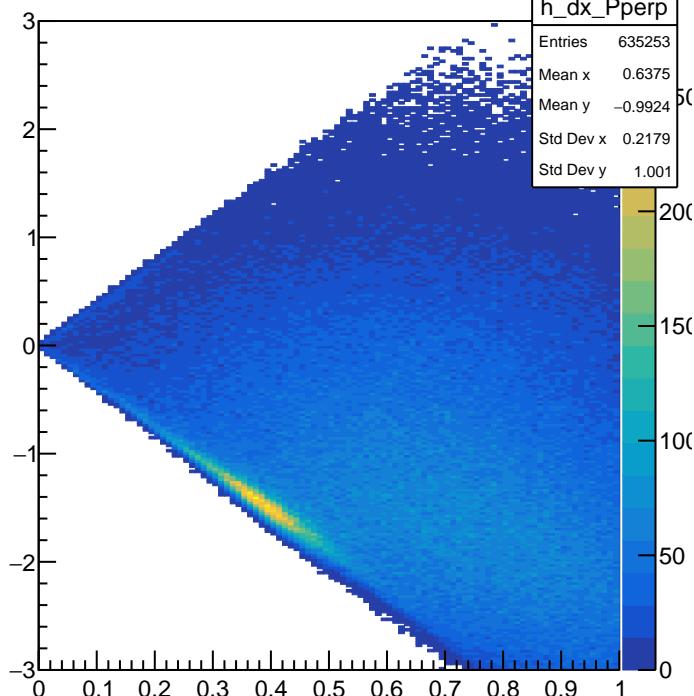


Pperp only with cointime cut



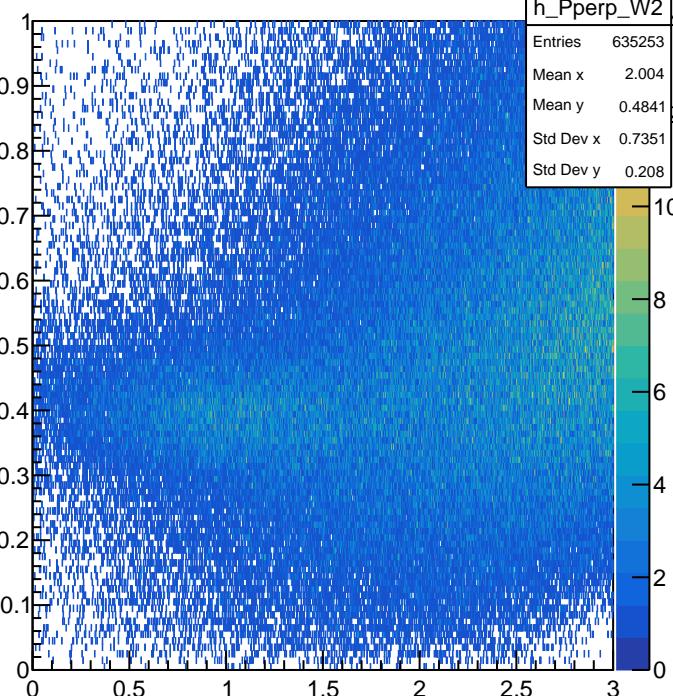
dx v Pperp dist only with cointime cut

h_dx_Pperp
Entries 635253
Mean x 0.6375
Mean y -0.9924
Std Dev x 0.2179
Std Dev y 1.001

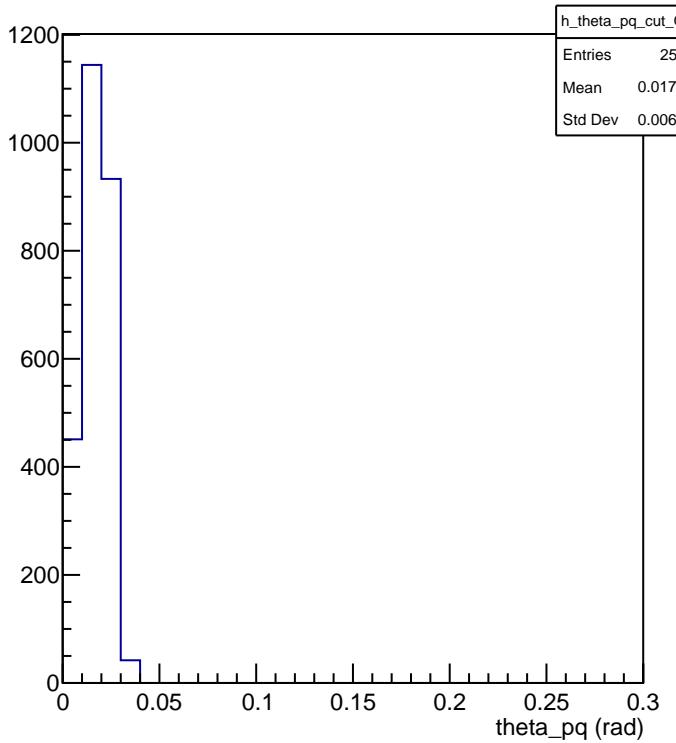


Pperp v W2 dist only with cointime cut

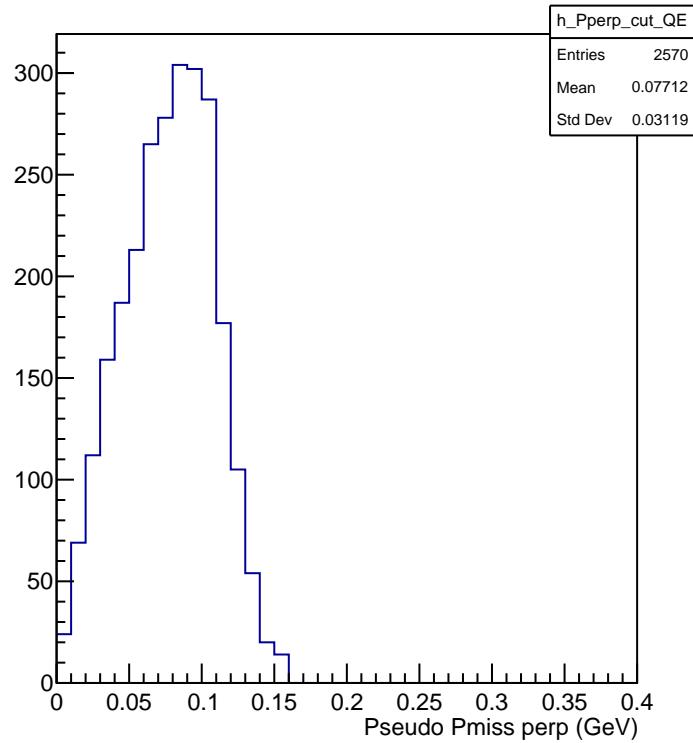
h_Pperp_W2
Entries 635253
Mean x 2.004
Mean y 0.4841
Std Dev x 0.7351
Std Dev y 0.208



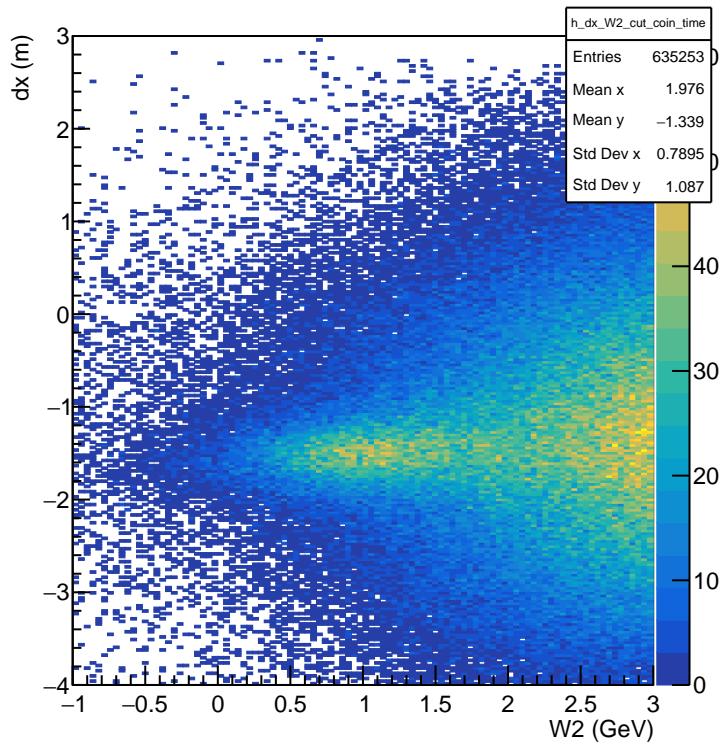
theta_pq with QE cuts



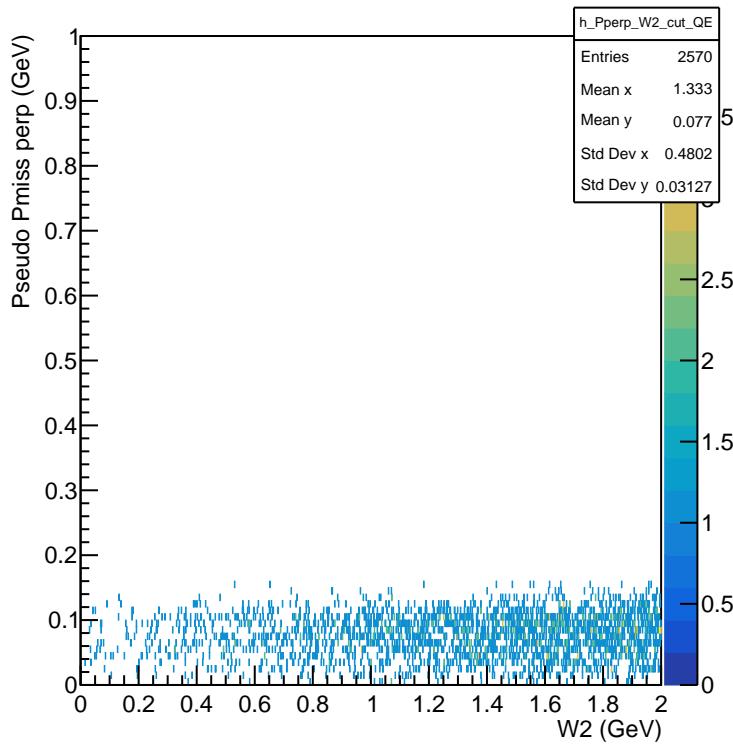
Pperp with QE cuts



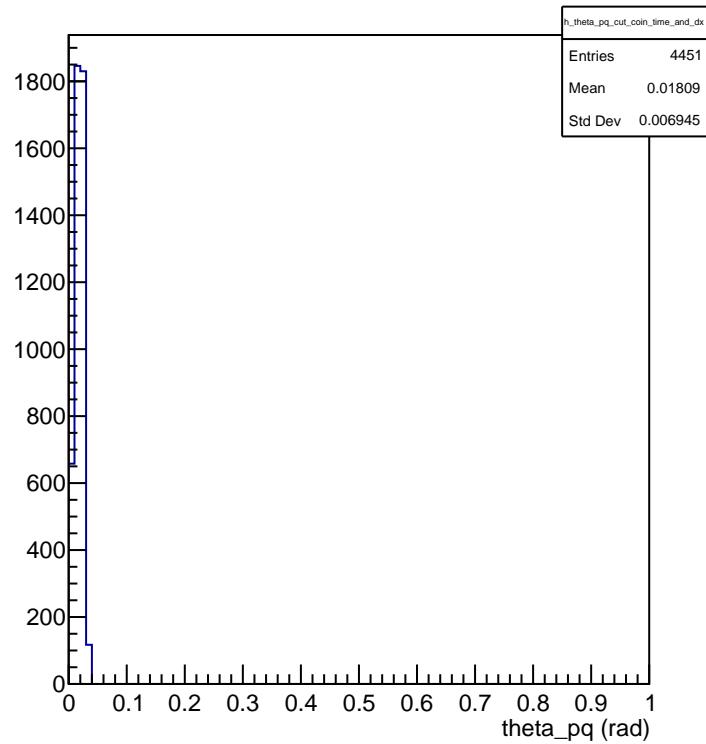
dx v W2 dist with coin time cut



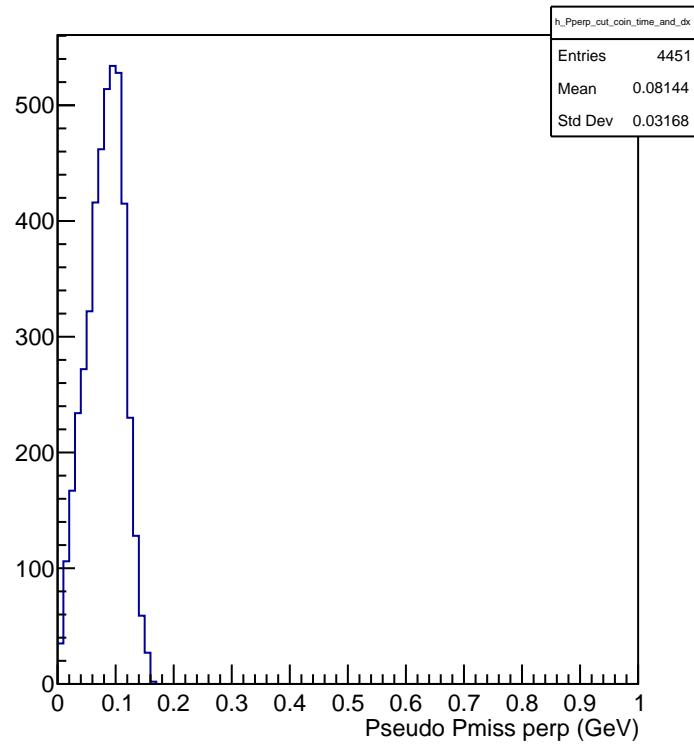
Pperp v W2 dist with QE cuts



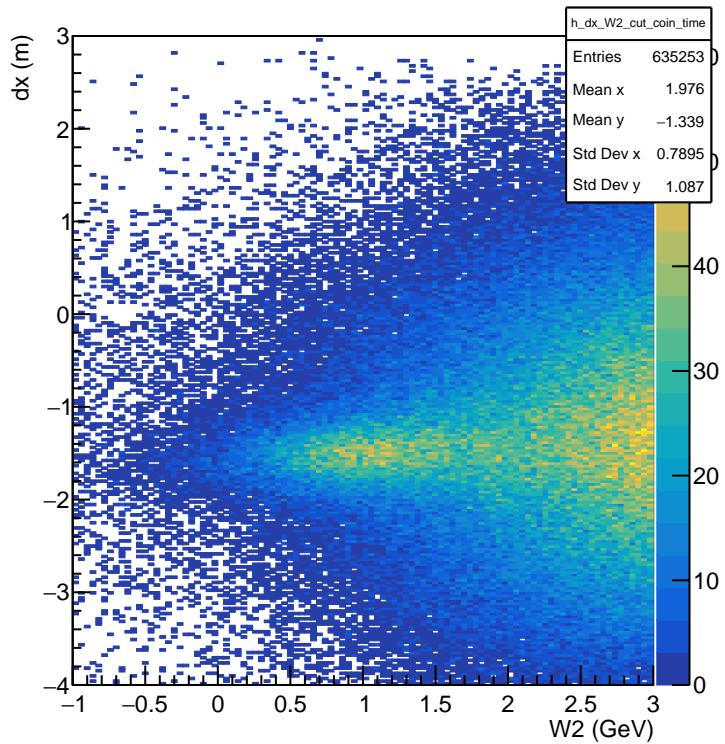
theta_pq coin, dx and dy cuts



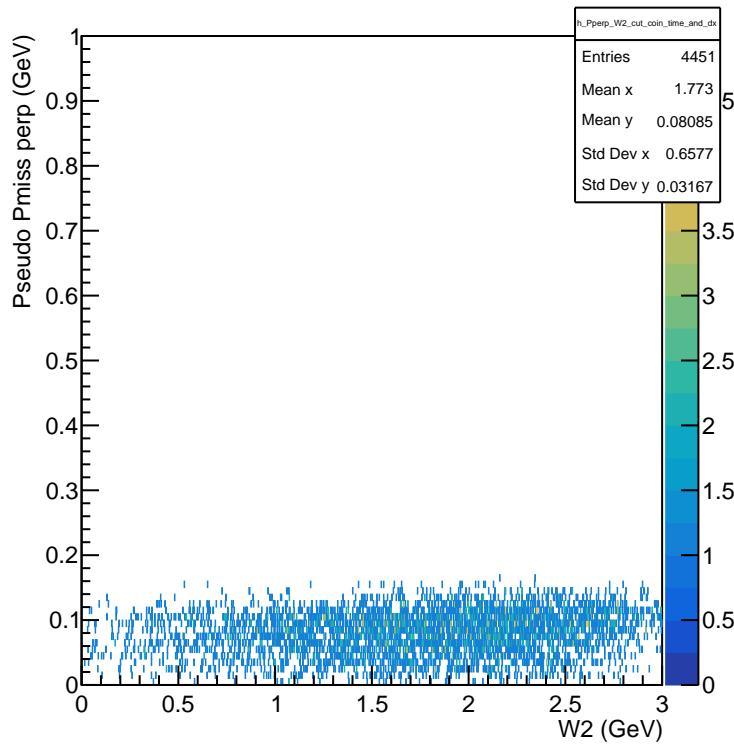
Pperp coin, dx and dy cuts



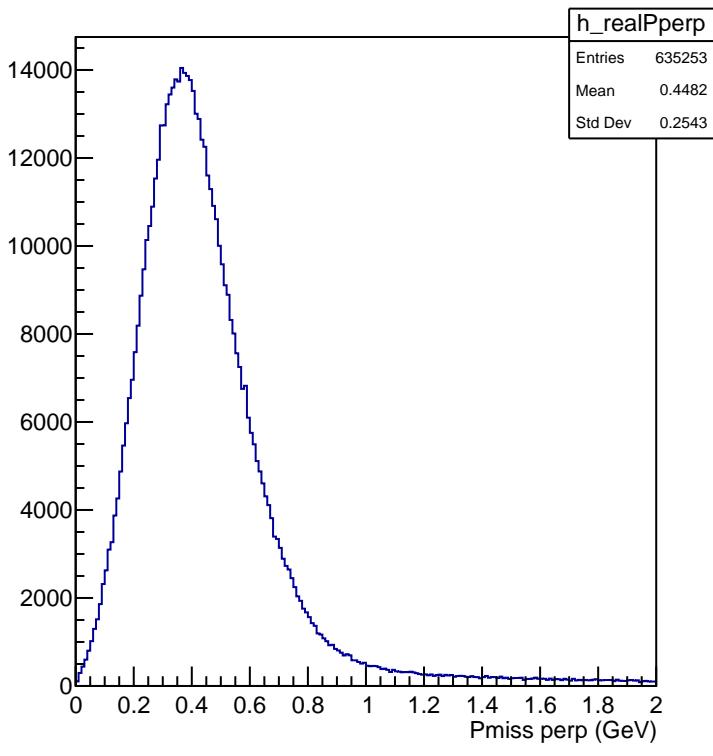
dx v W2 dist with coin time cut



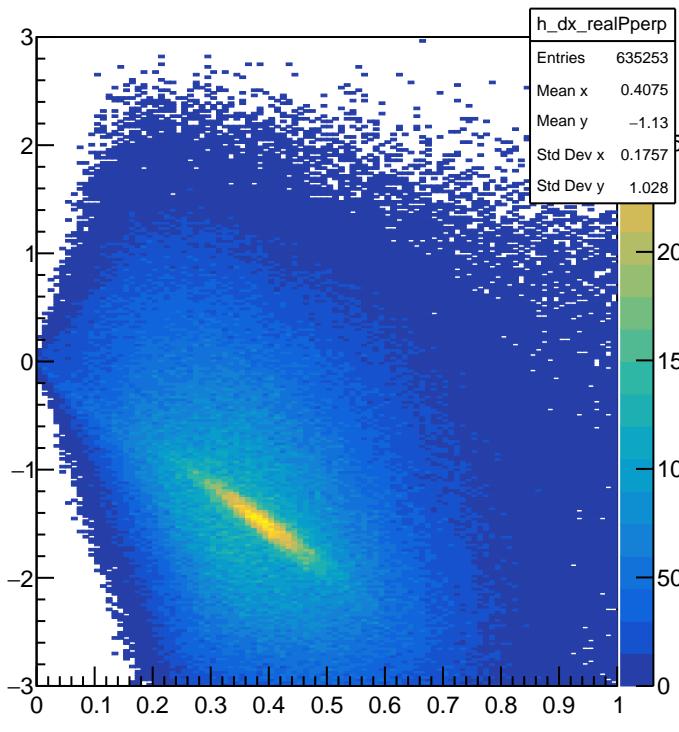
Pperp v W2 dist coin, dx and dy cuts



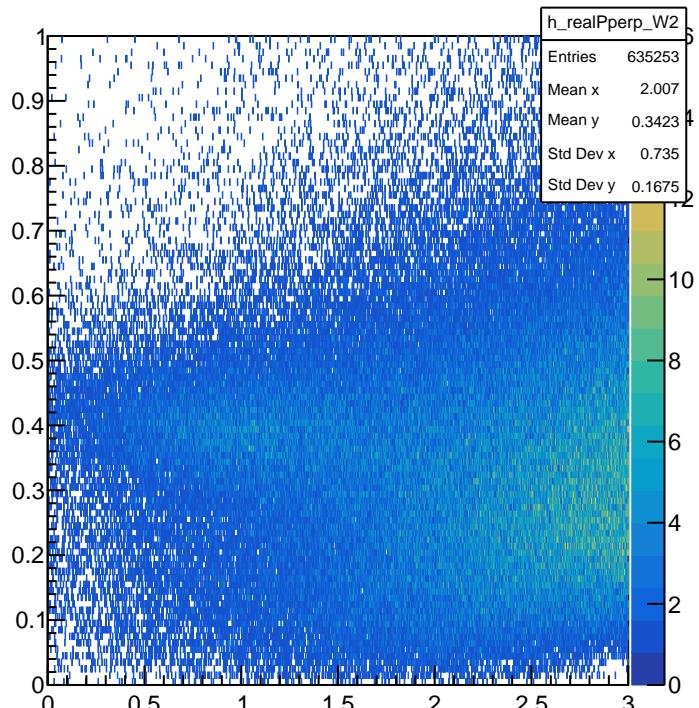
realPperp only with cointime cut



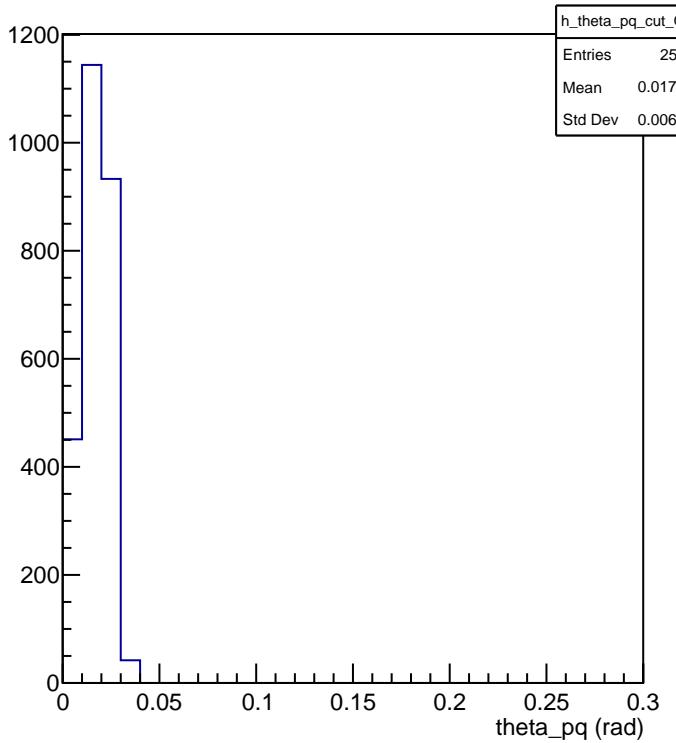
dx v realPperp dist only with cointime cut



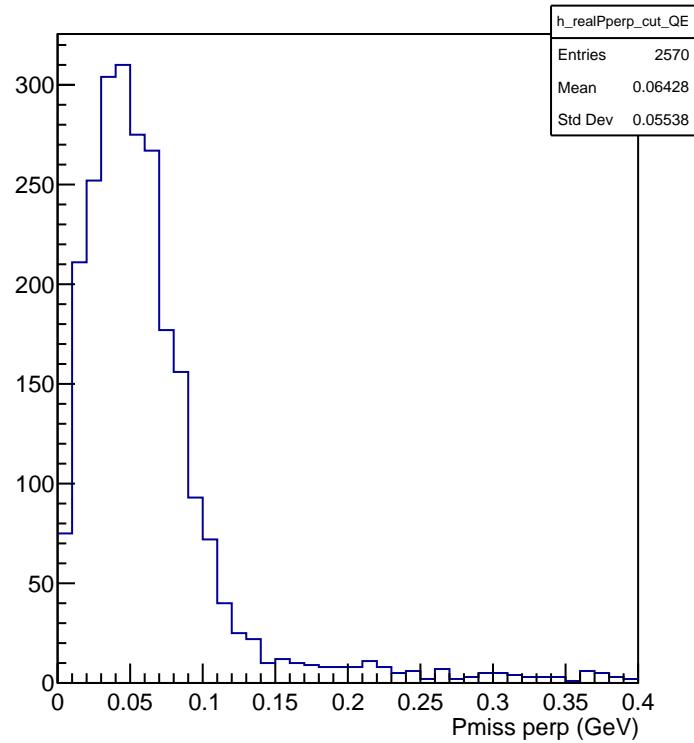
realPperp v W2 dist only with cointime cut



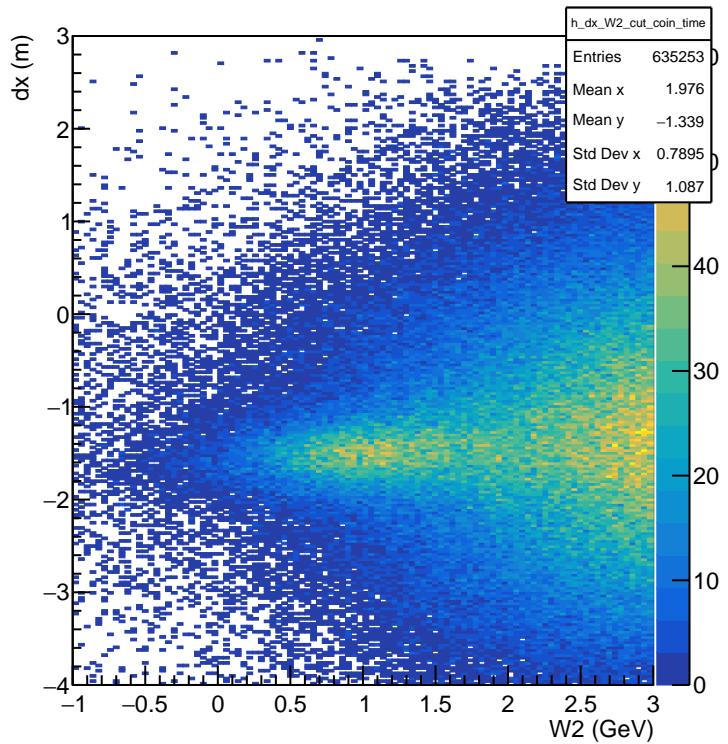
theta_pq with QE cuts



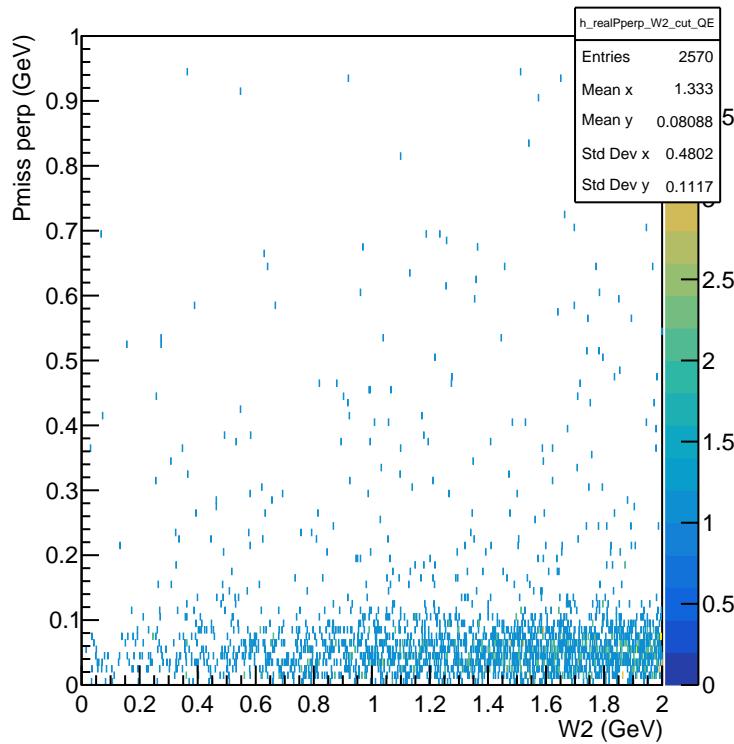
realPperp with QE cuts



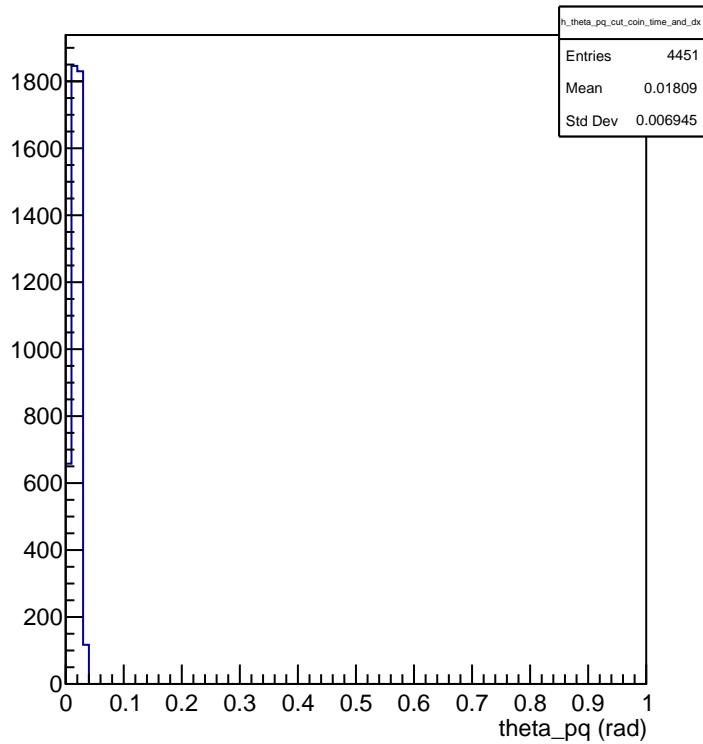
dx v W2 dist with coin time cut



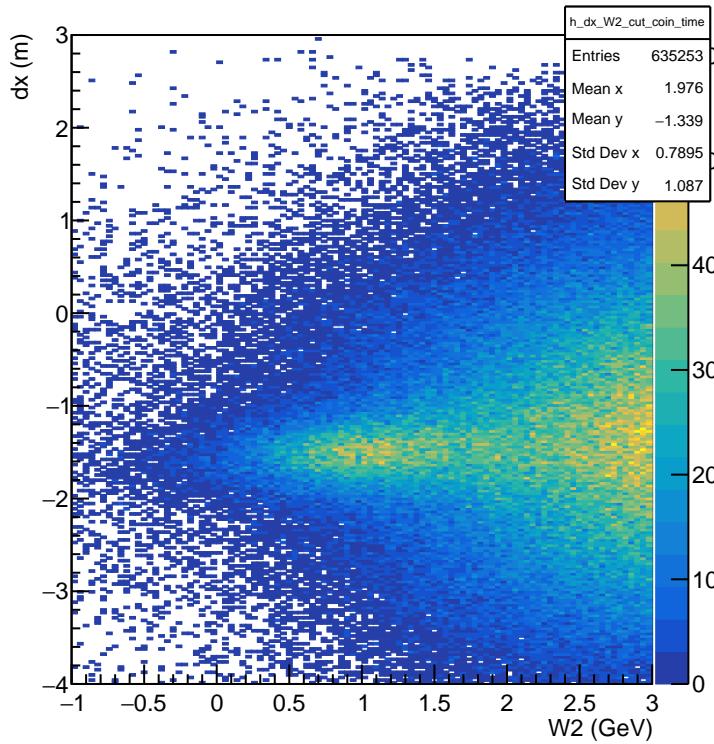
real Pperp v W2 dist with QE cuts



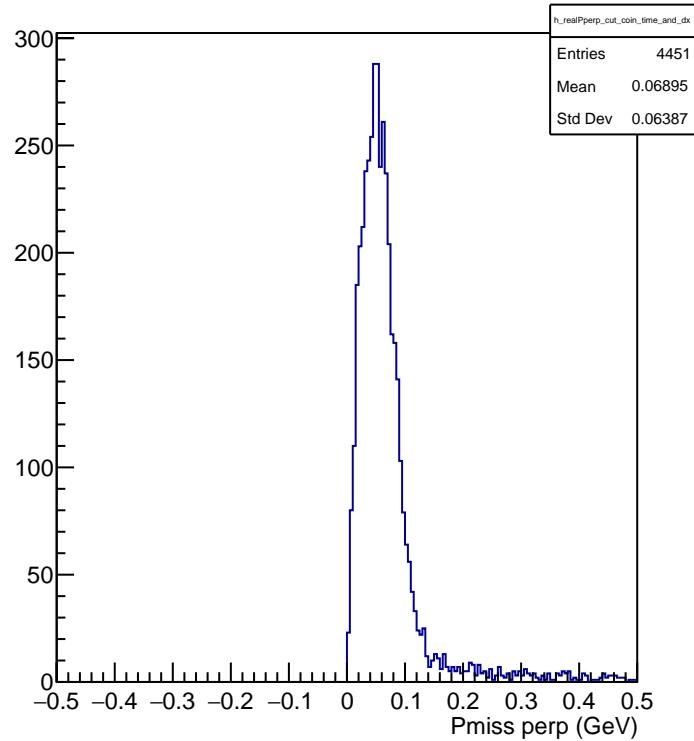
theta_pq coin, dx and dy cuts



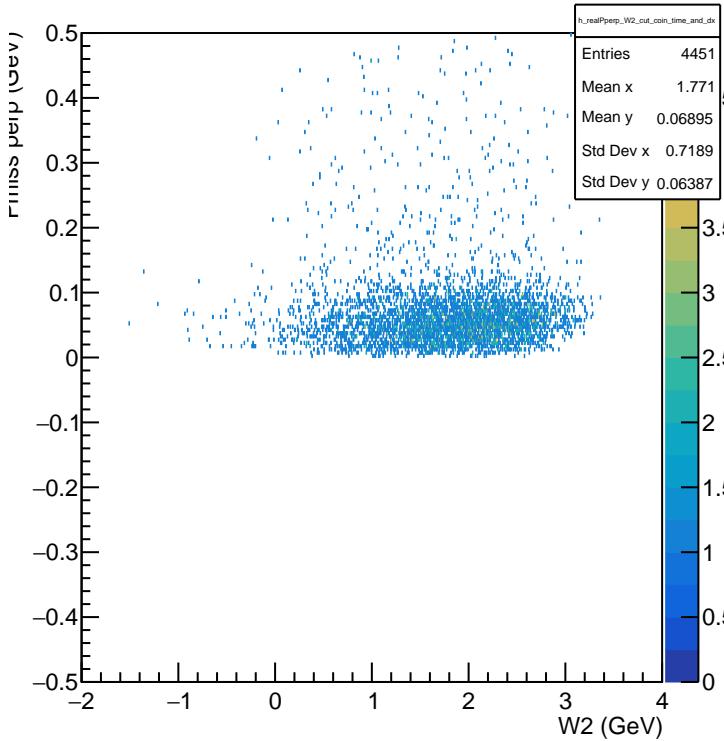
dx v W2 dist with coin time cut



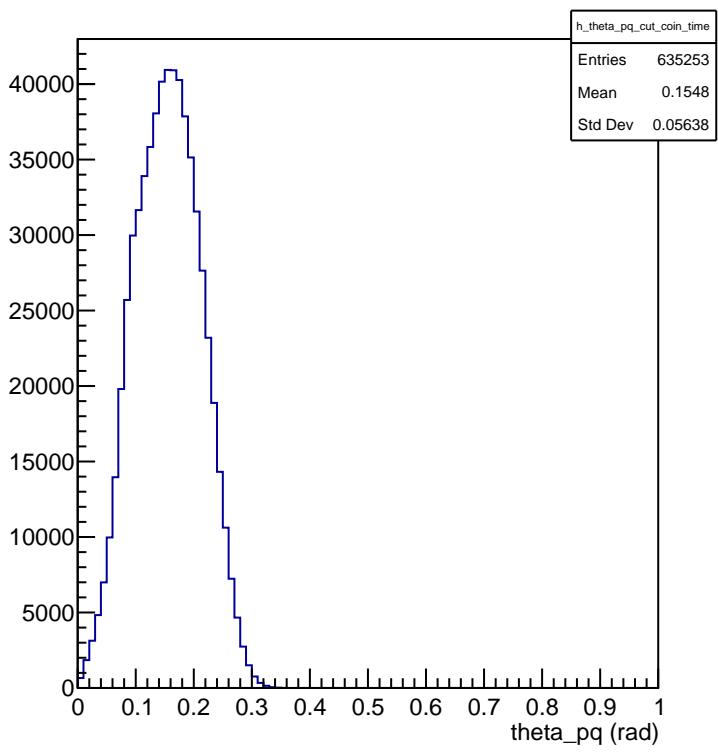
realPperp coin, dx and dy cuts



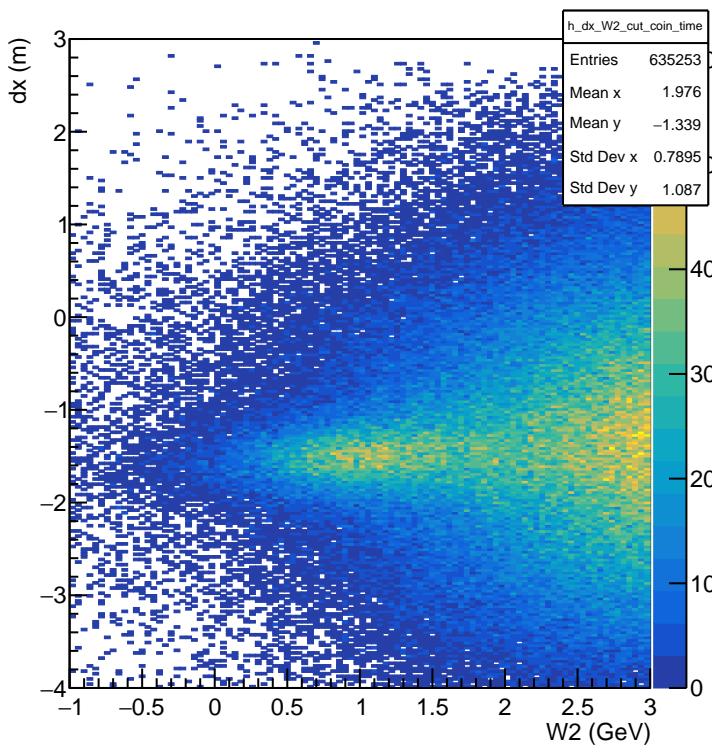
realPperp v W2 dist coin, dx and dy cuts



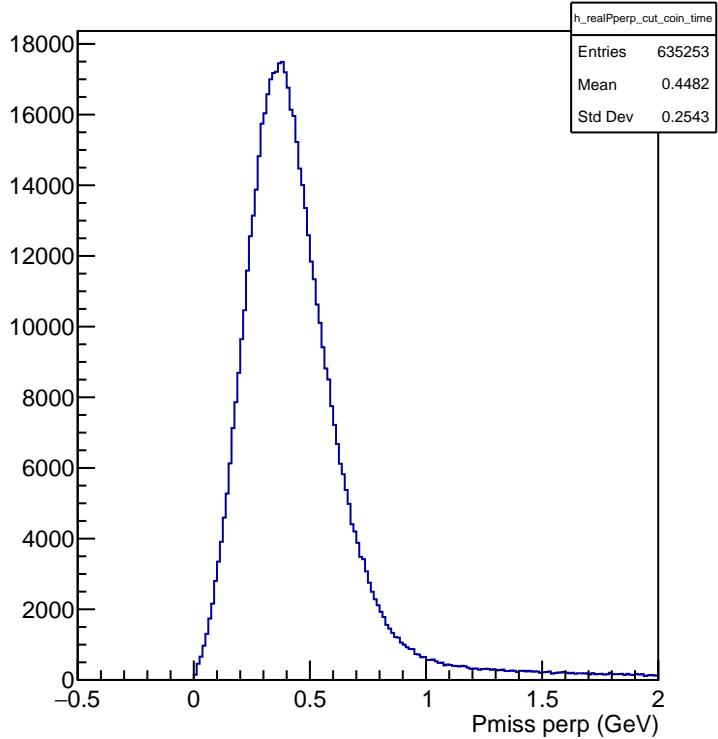
theta_pq only with coin cut



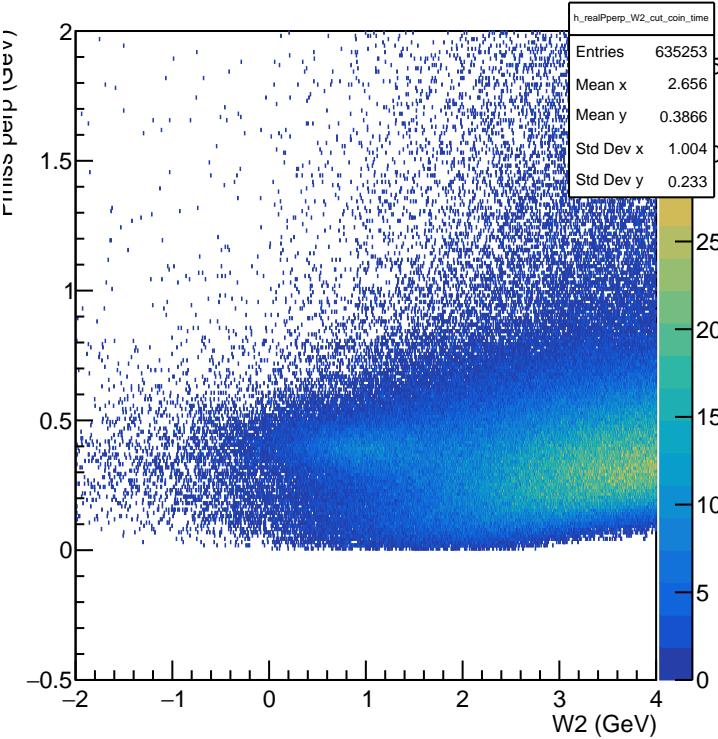
dx v W2 dist with coin time cut



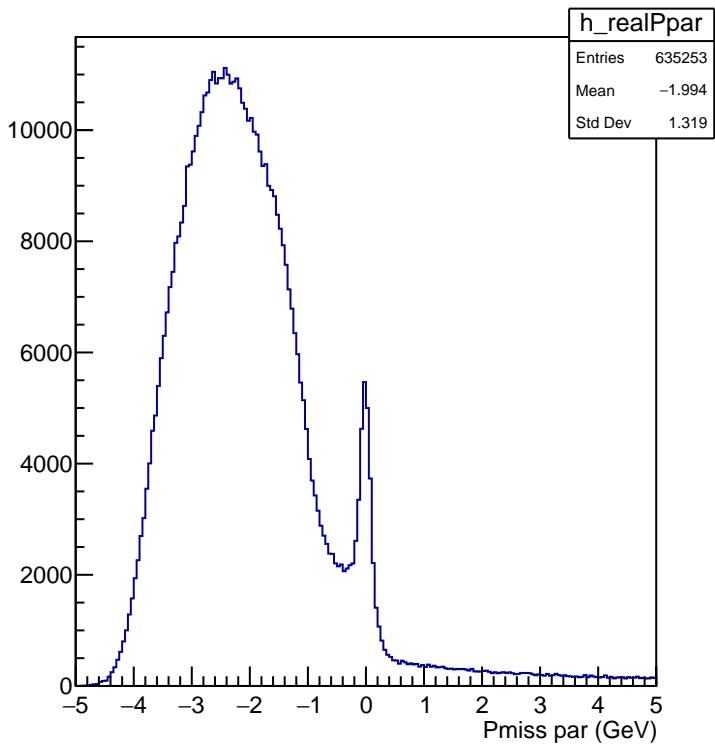
realPperp only with coin cut



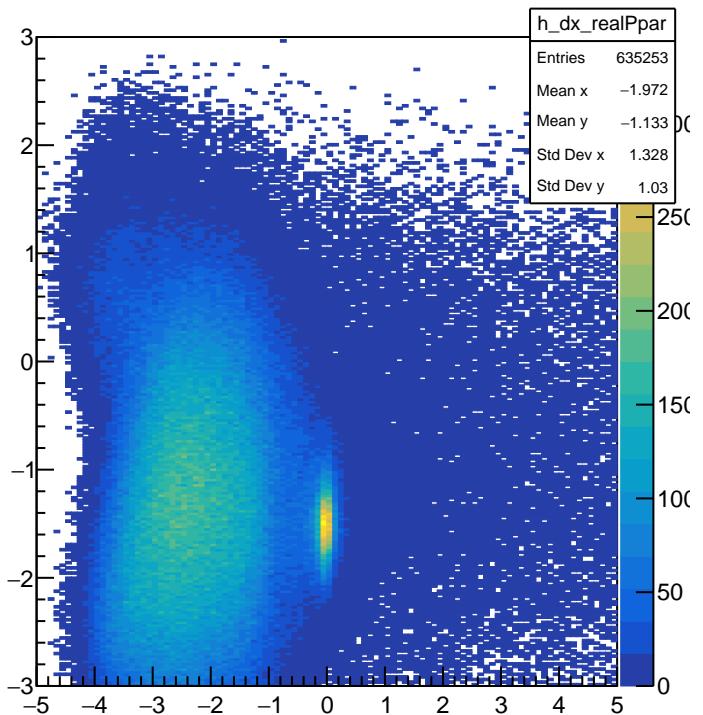
realPperp v W2 dist only with coin cut



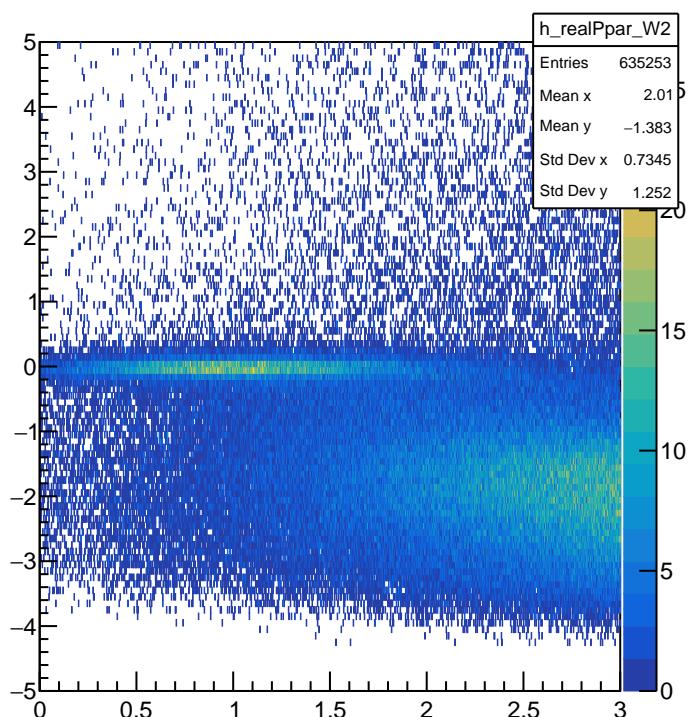
realPpar only with cointime cut



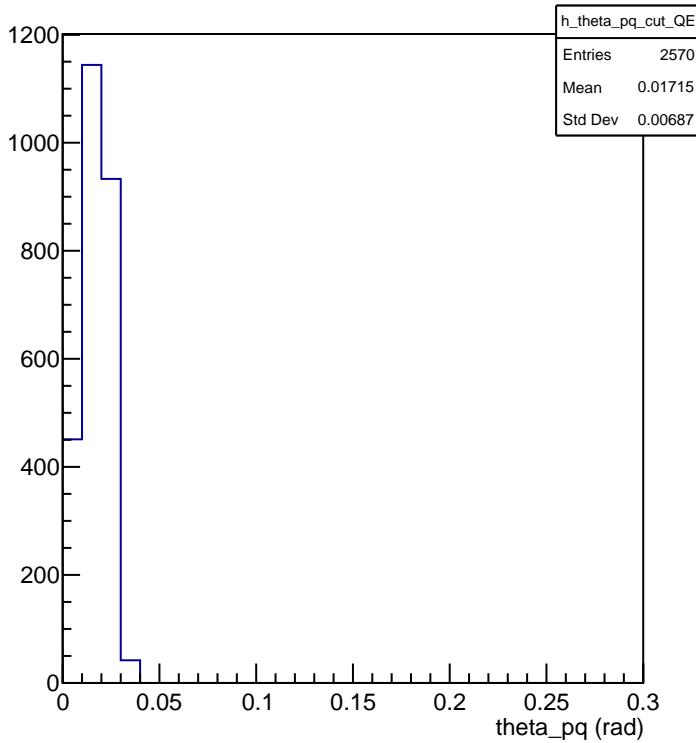
dx v realPpar dist only with cointime cut



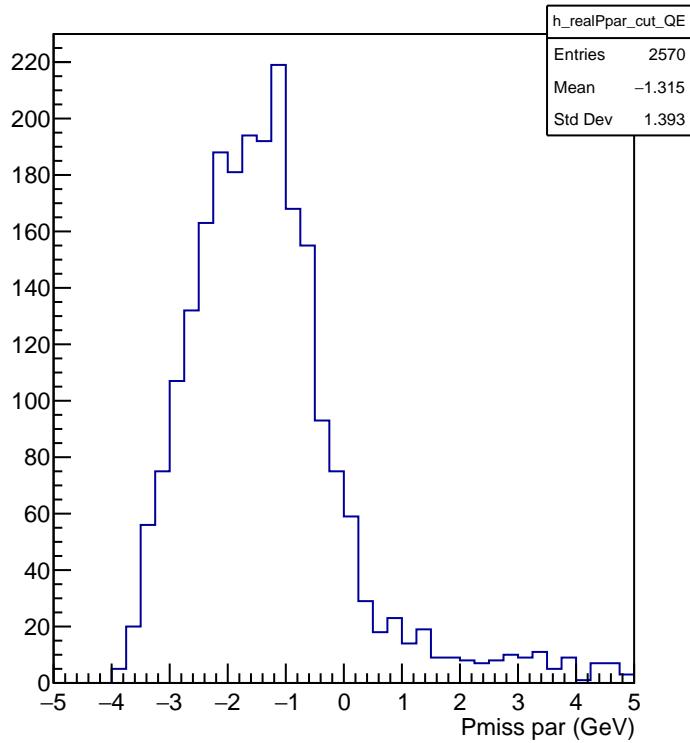
realPpar v W2 dist only with cointime cut



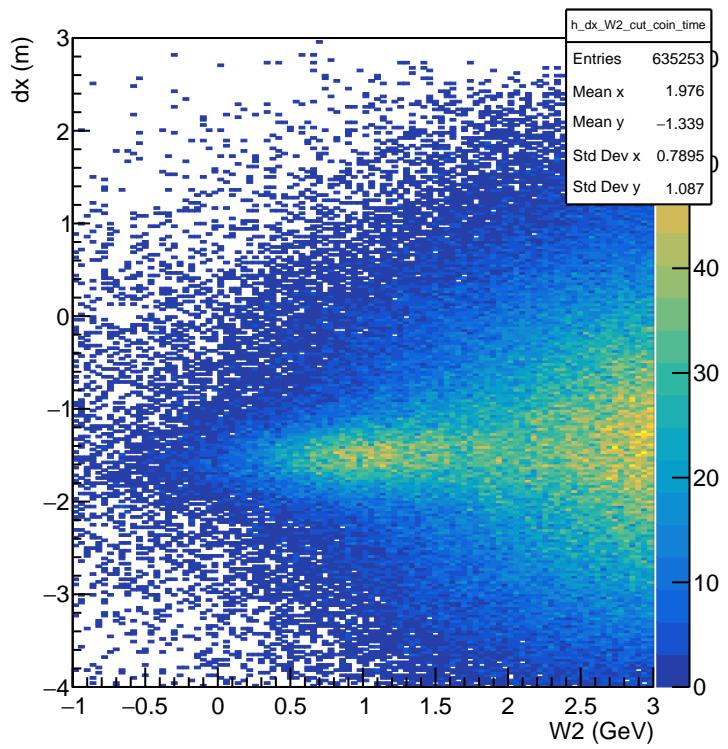
theta_pq with QE cuts



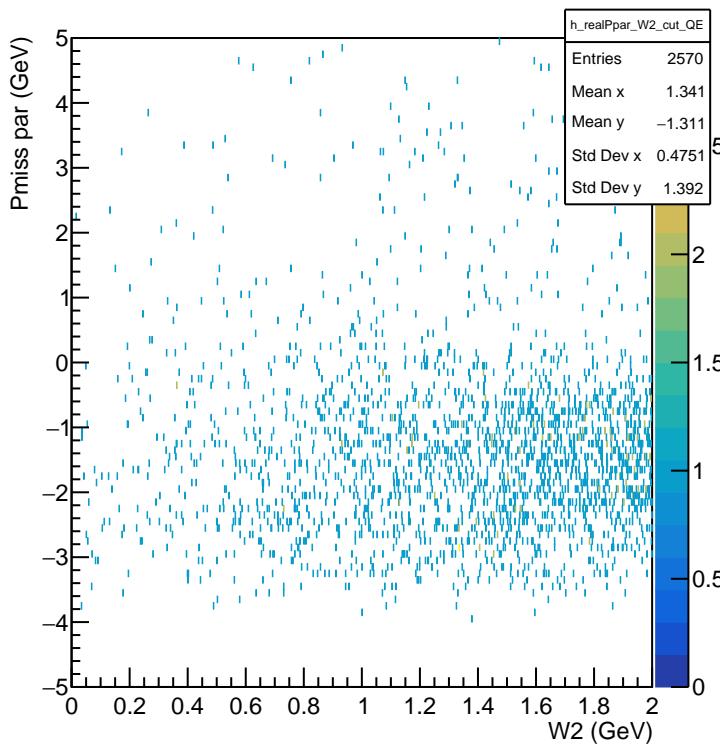
realPpar with QE cuts



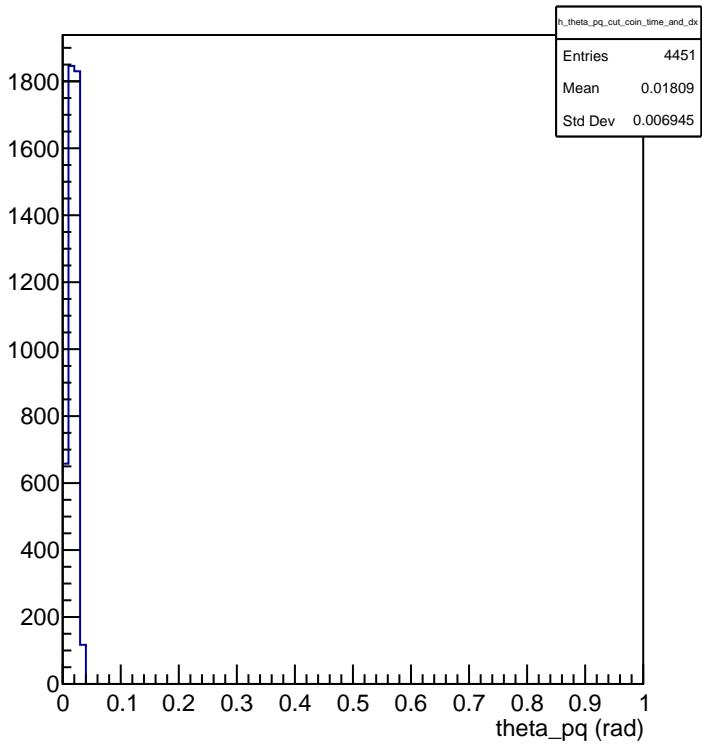
dx v W2 dist with coin time cut



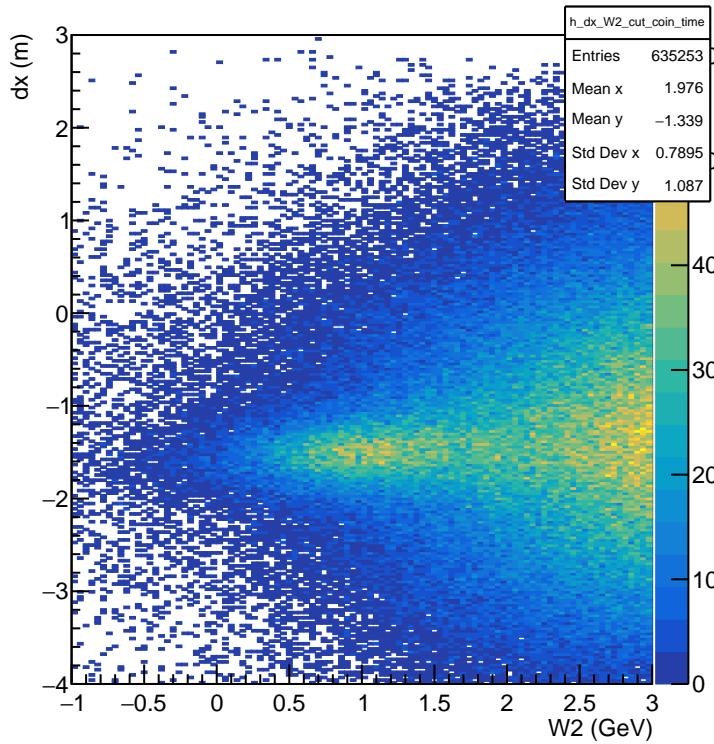
real Ppar v W2 dist with QE cuts



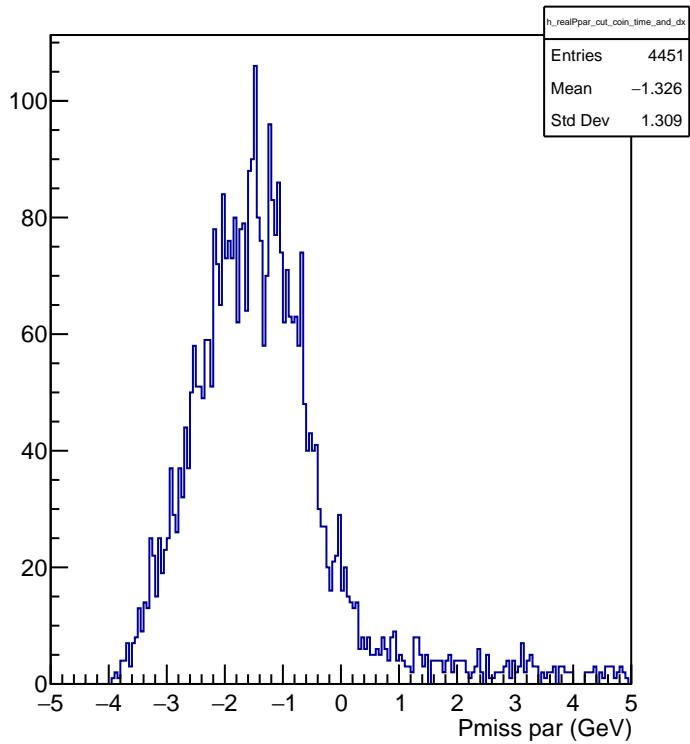
theta_pq coin, dx and dy cuts



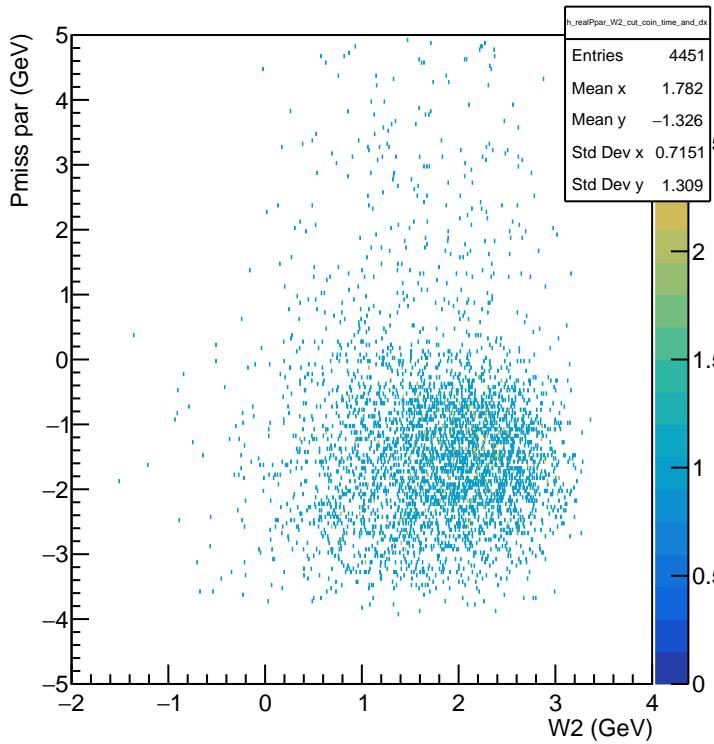
dx v W2 dist with coin time cut



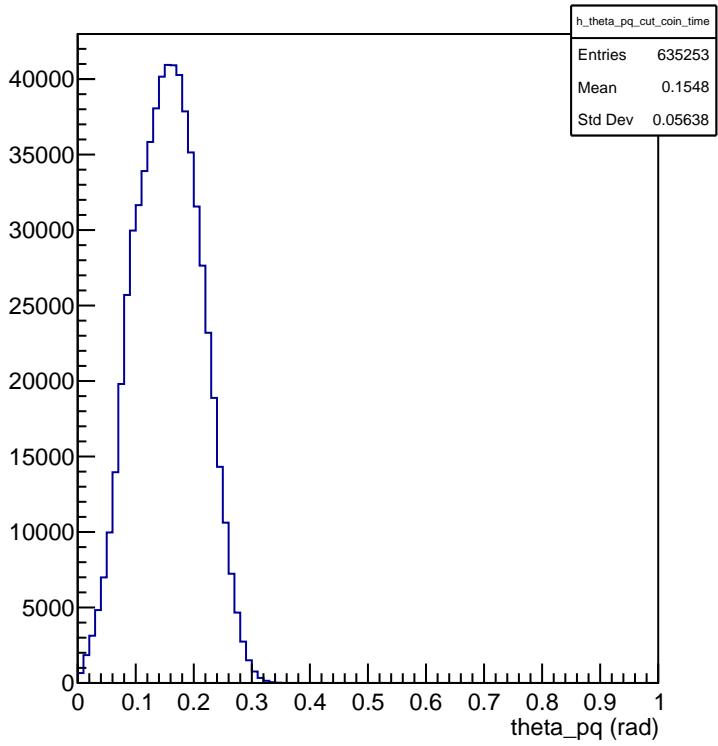
realPpar coin, dx and dy cuts



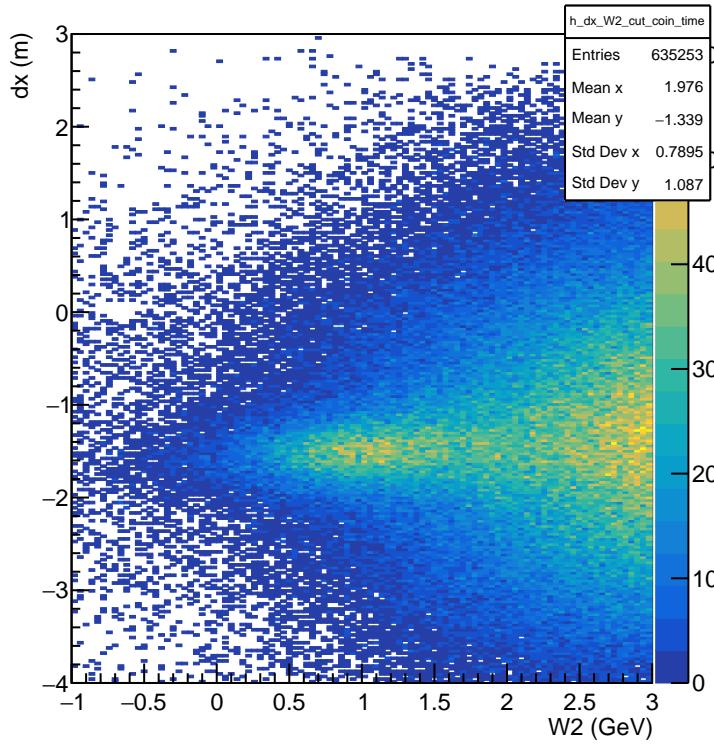
realPpar v W2 dist coin, dx and dy cuts



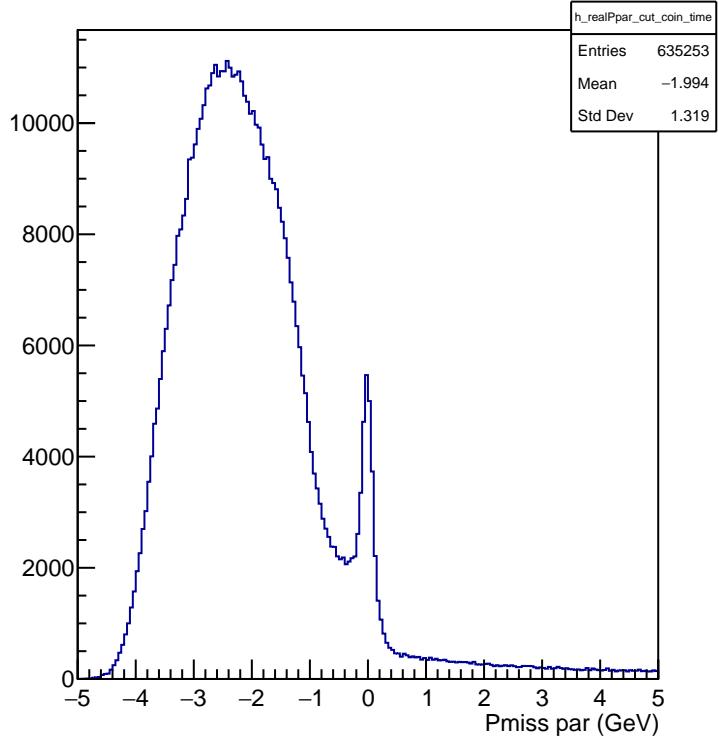
theta_pq only with coin cut



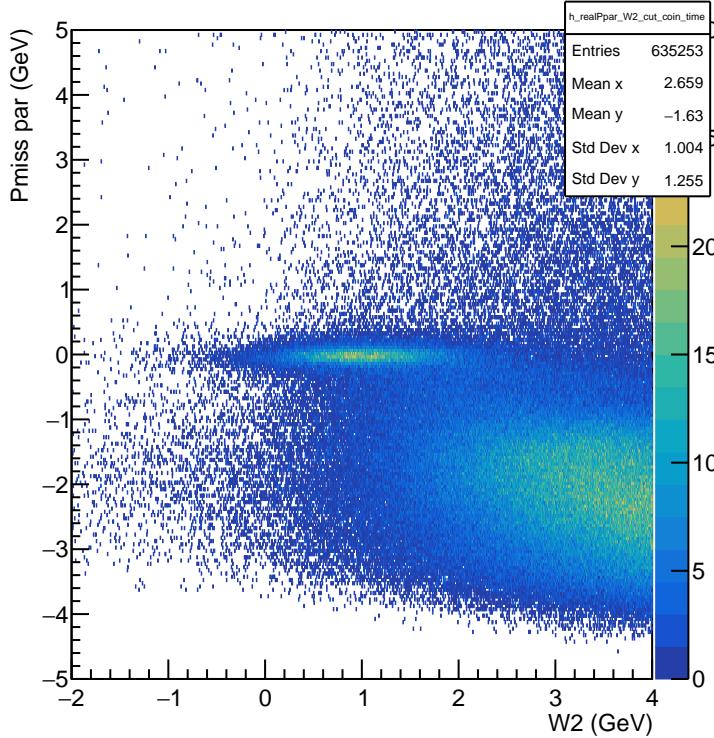
dx v W2 dist with coin time cut



realPpar only with coin cut

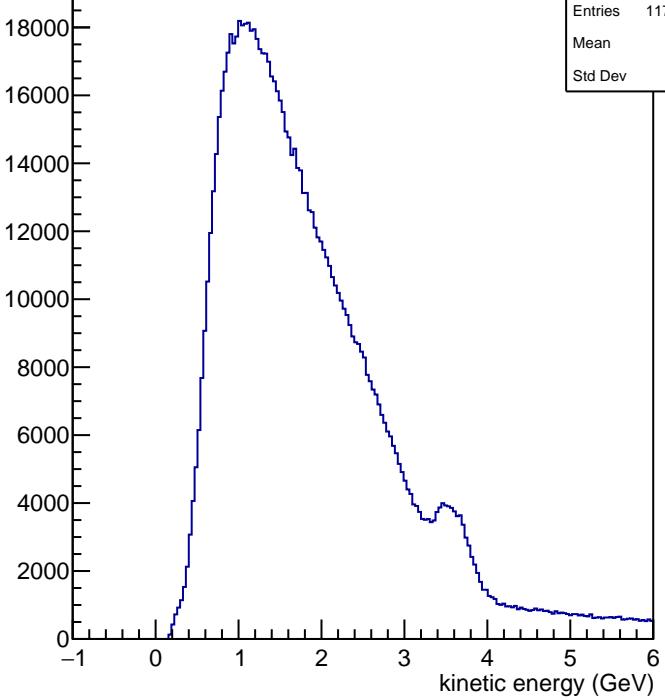


realPpar v W2 dist only with coin cut



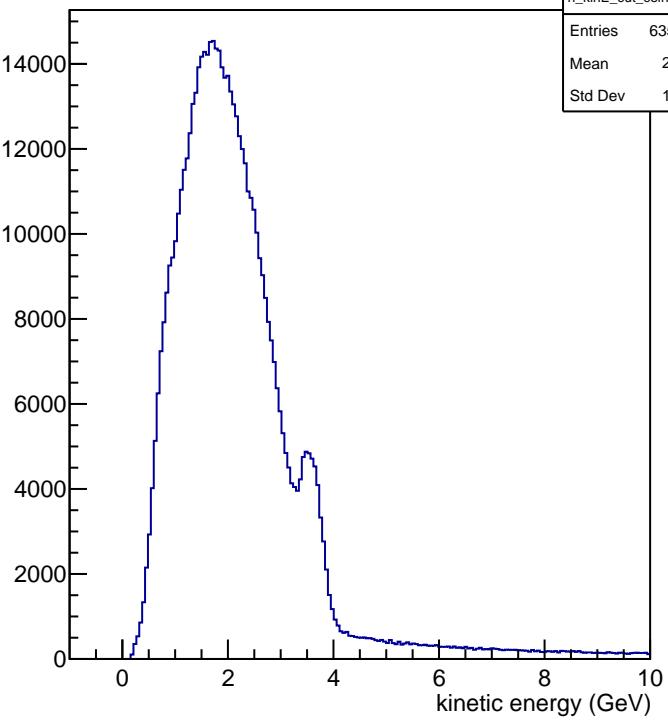
kinetic energy

h_kinE
Entries 1172839
Mean 1.864
Std Dev 1.045



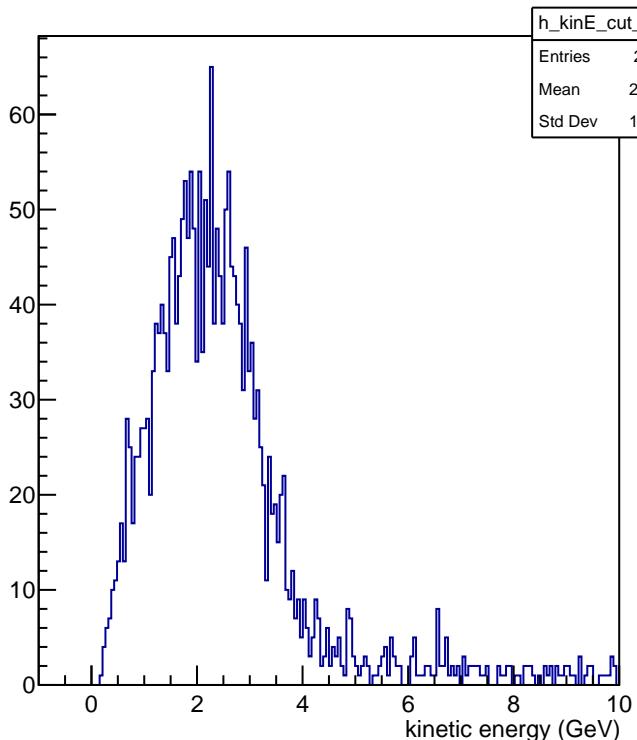
kinetic energy with cointime cut

h_kinE_cut_cointime
Entries 635253
Mean 2.183
Std Dev 1.284

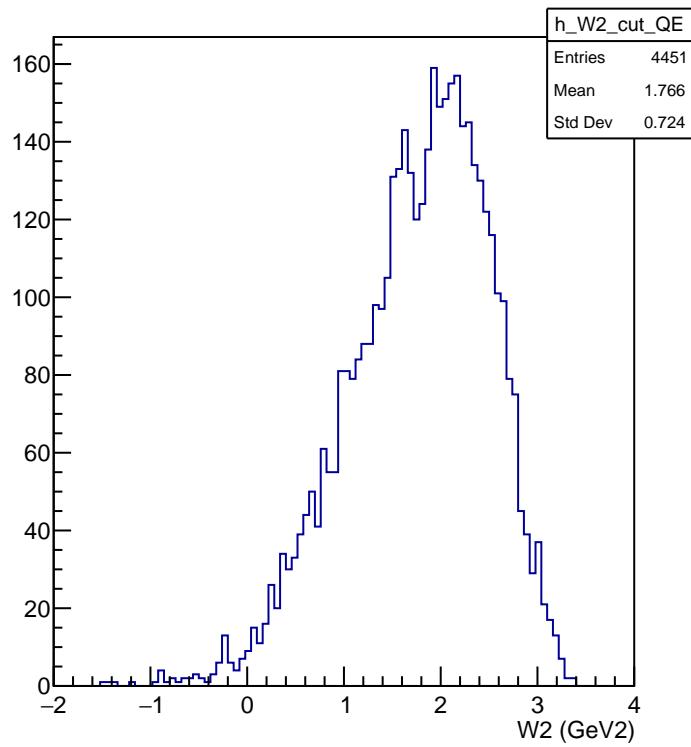


kinetic energy with QE cuts

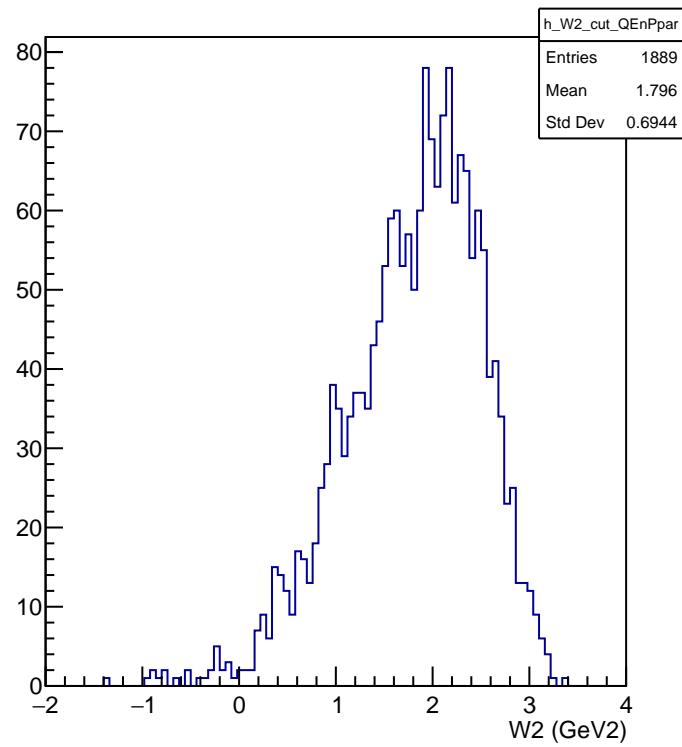
h_kinE_cut_QE
Entries 2570
Mean 2.492
Std Dev 1.539



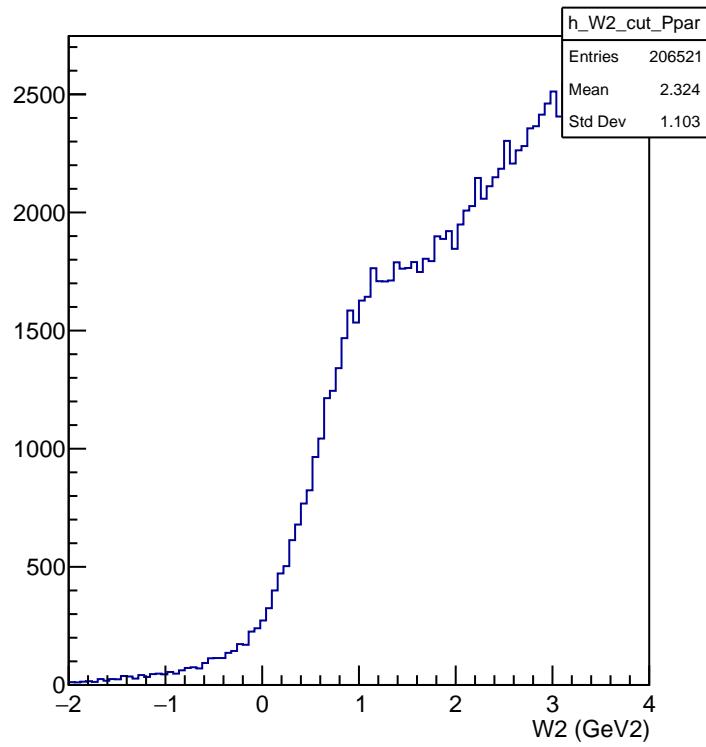
W2 distribution with coin, dx, and dy



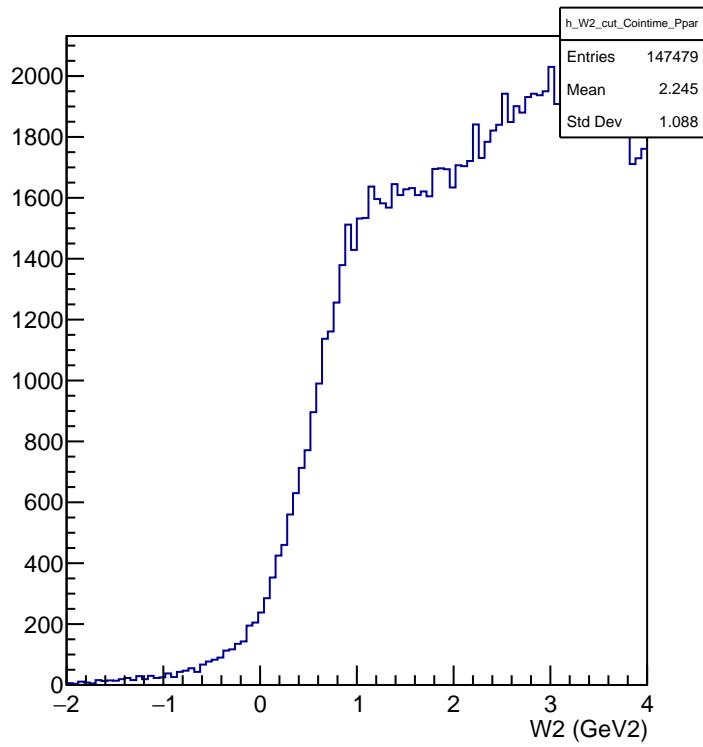
W2 distribution with coin, dx, dy and Ppar cuts



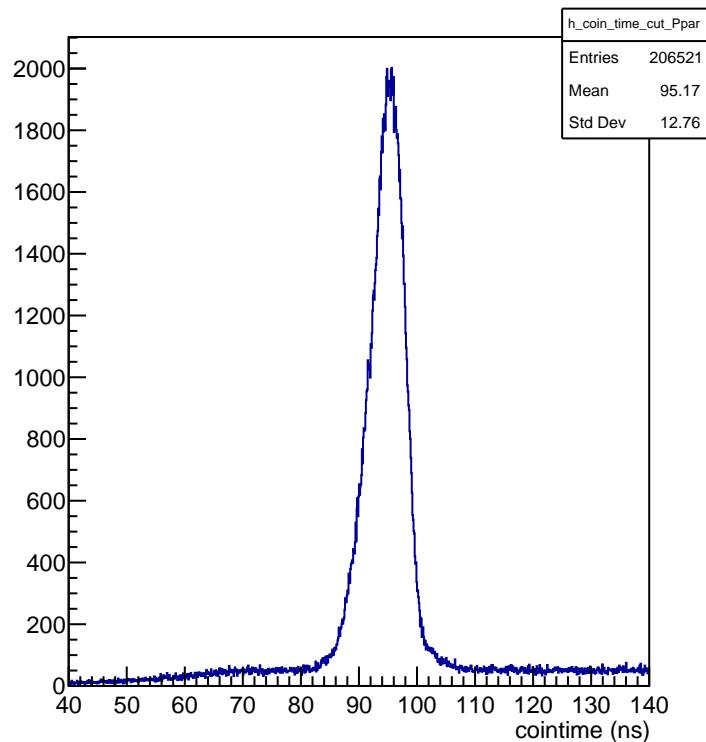
W2 distribution only with Ppar cut



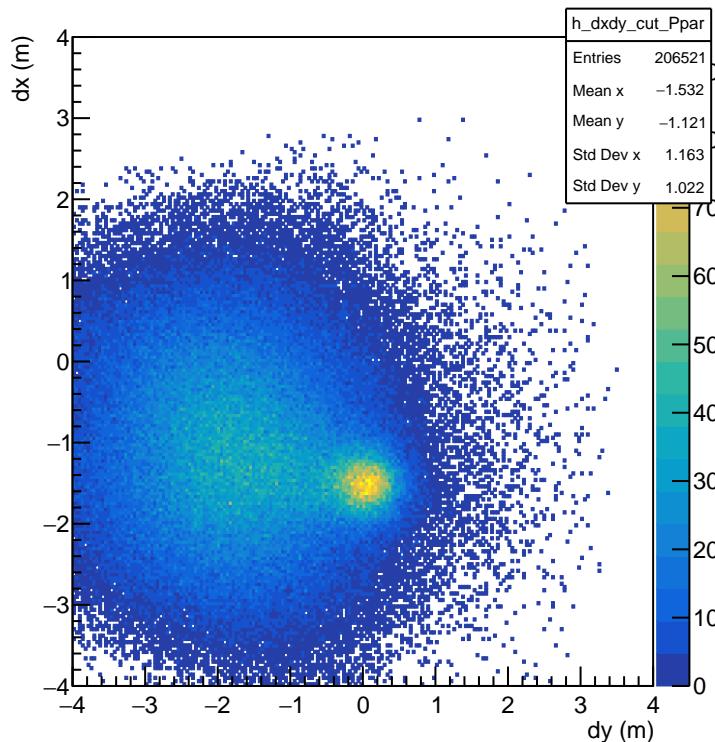
W2 distribution with Cointime and Ppar cut



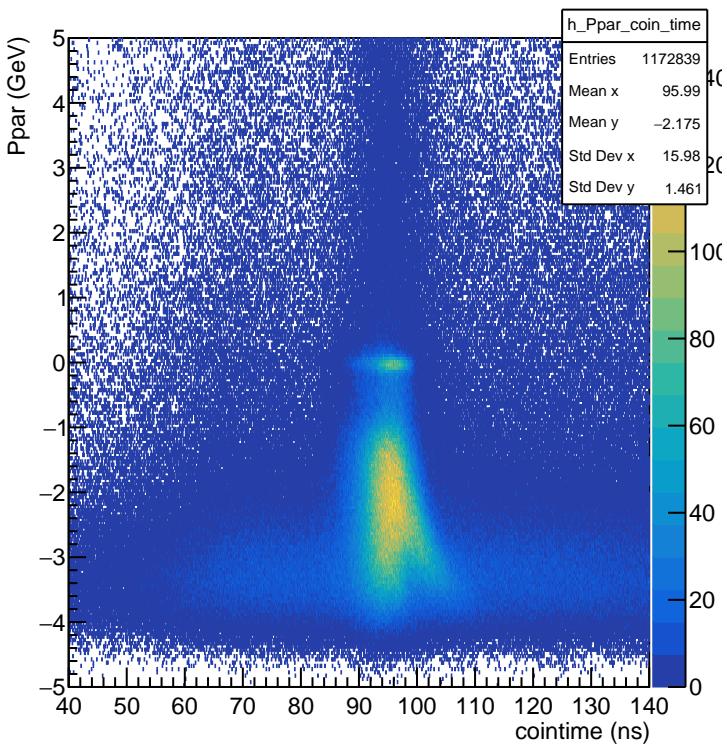
cointime distribution only with Ppar cut



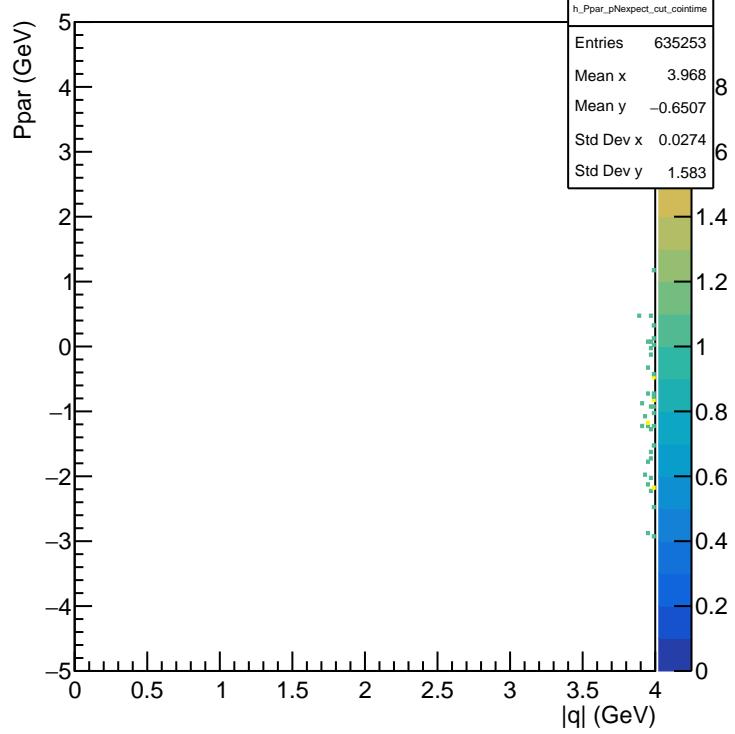
dxdy only with Ppar cut



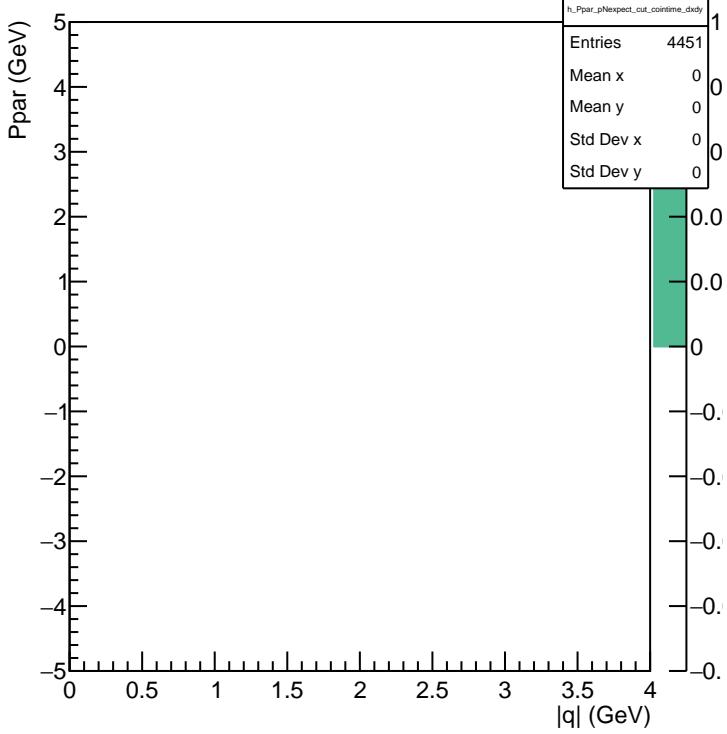
Ppar v cointime distribution



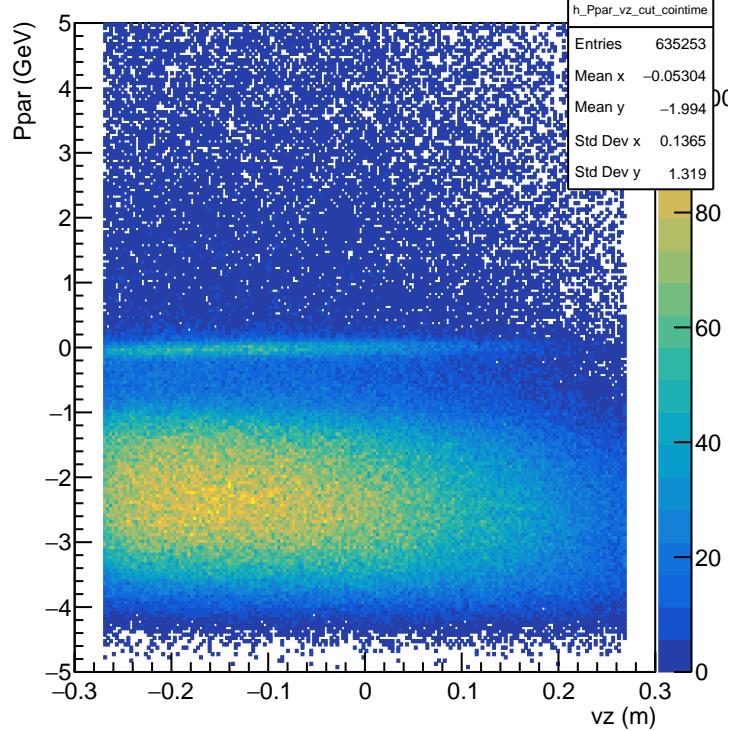
Ppar v $|q|$ only with coin cut



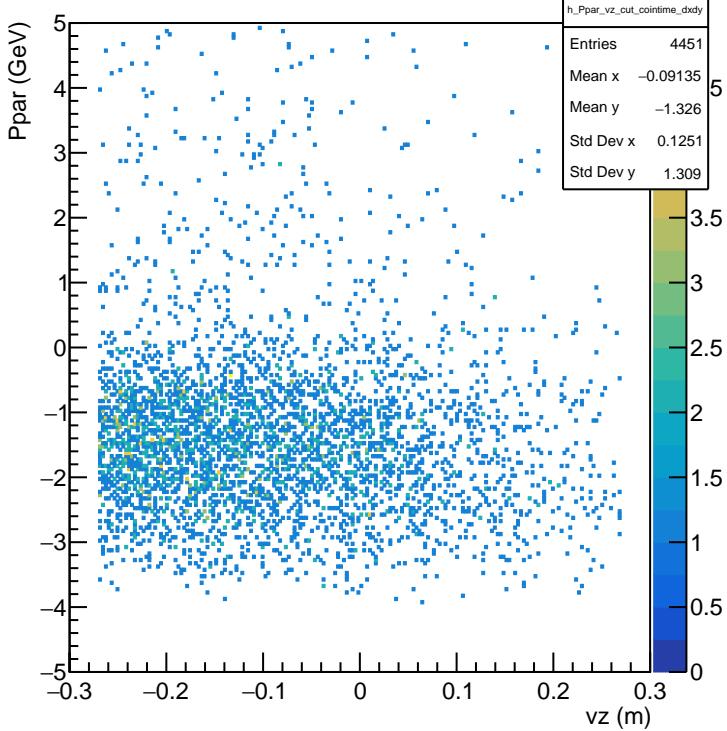
Ppar v $|q|$ with coin, dx and dy cuts



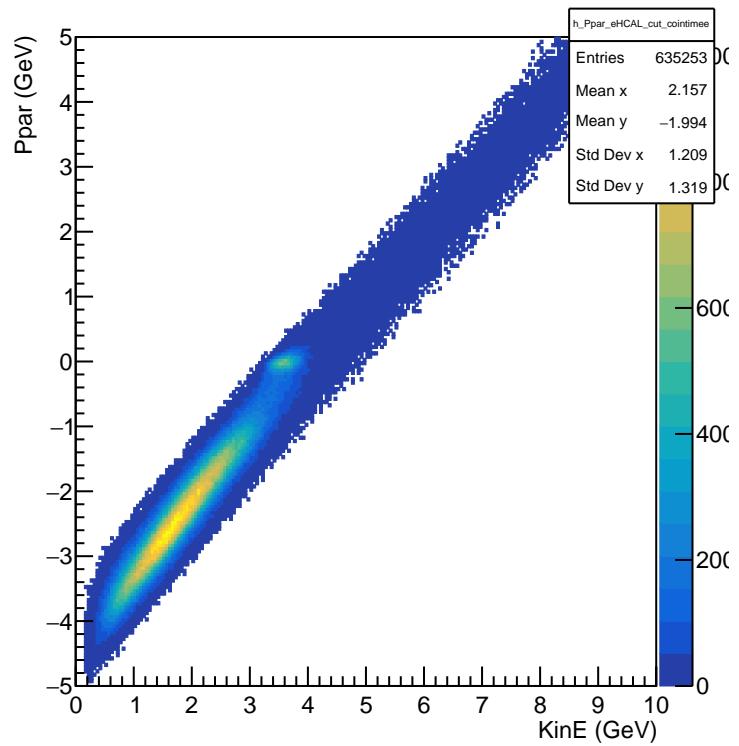
Ppar v vz only with coin cut



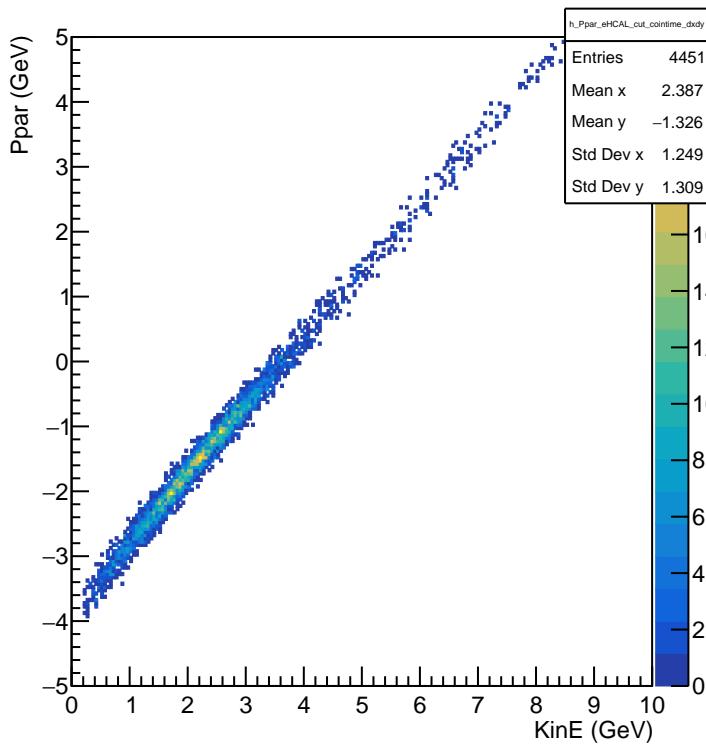
Ppar v vz with coin, dx and dy cuts



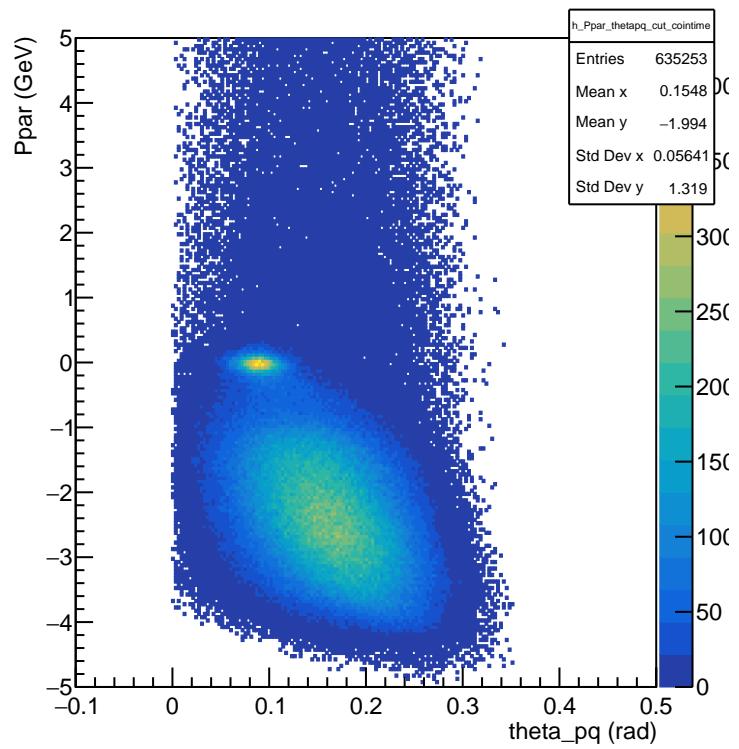
Ppar v eHCAL (KinE) only with coin cut



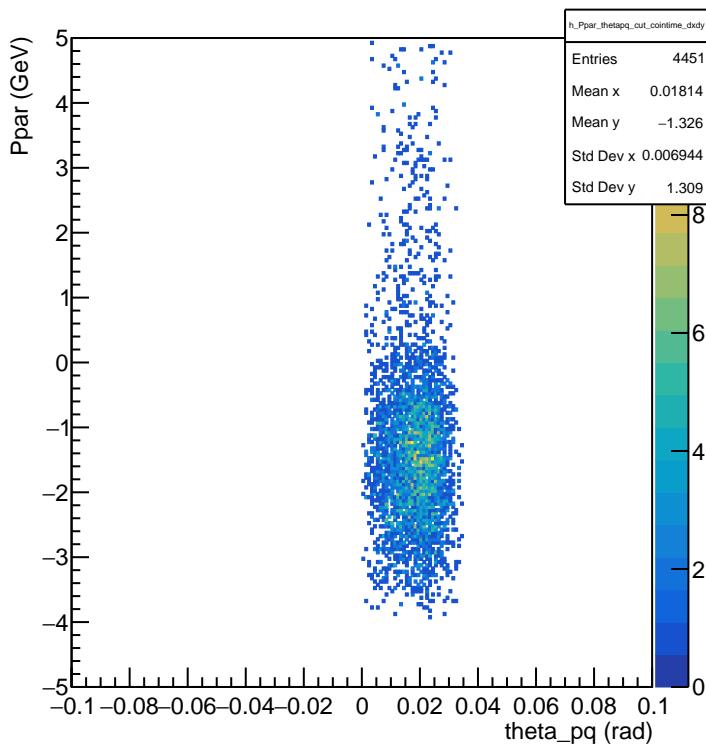
Ppar v eHCAL (KinE) with coin, dx and dy cuts



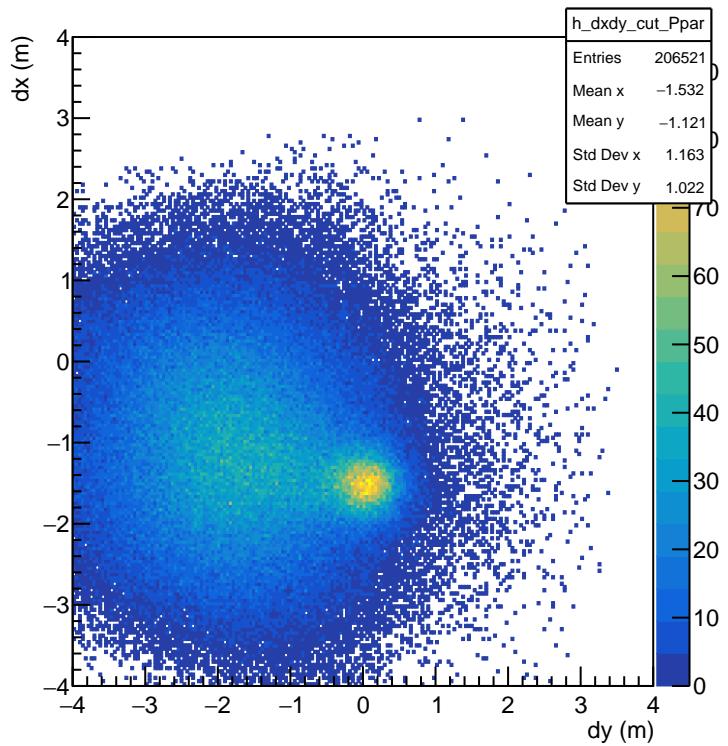
Ppar v theta_pq only with coin cut



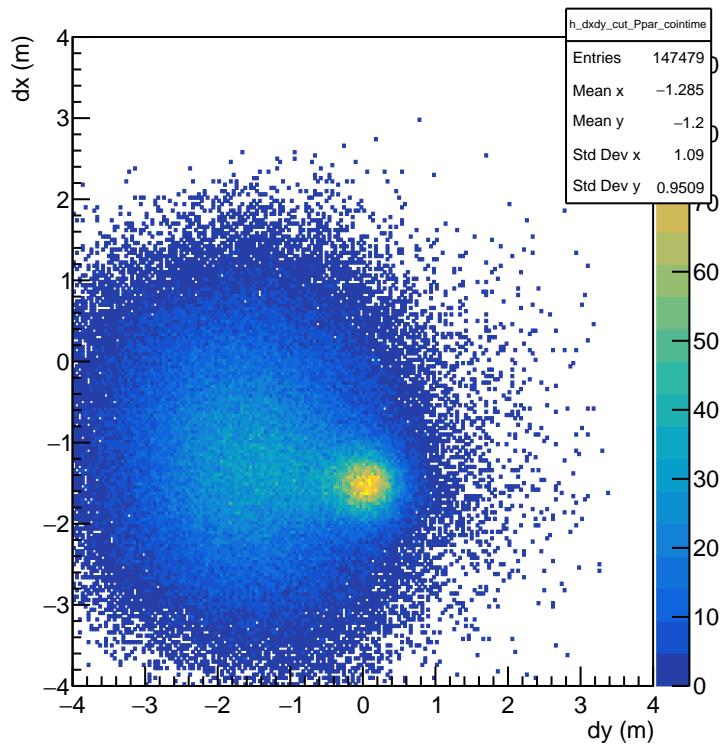
Ppar v theta_pq with coin, dx and dy cut



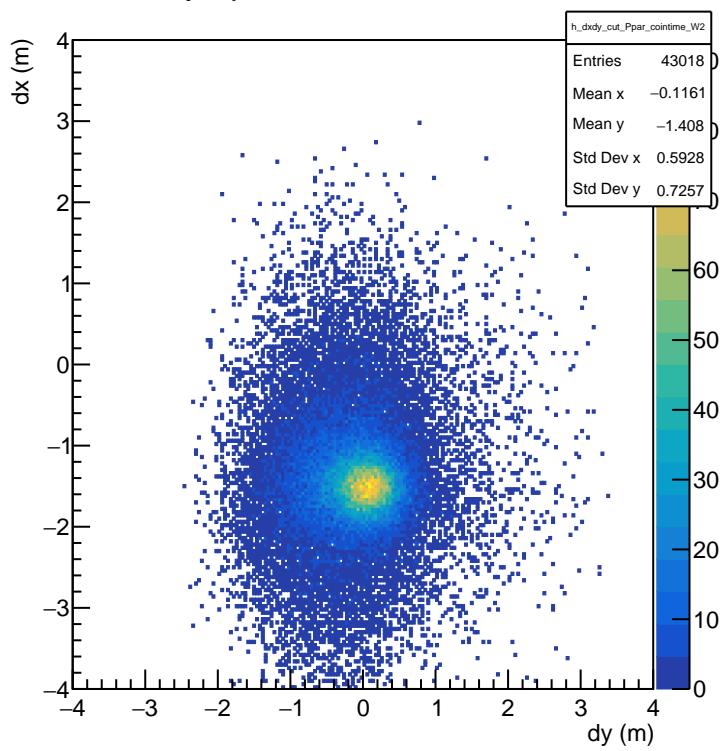
dxdy only with Ppar cut



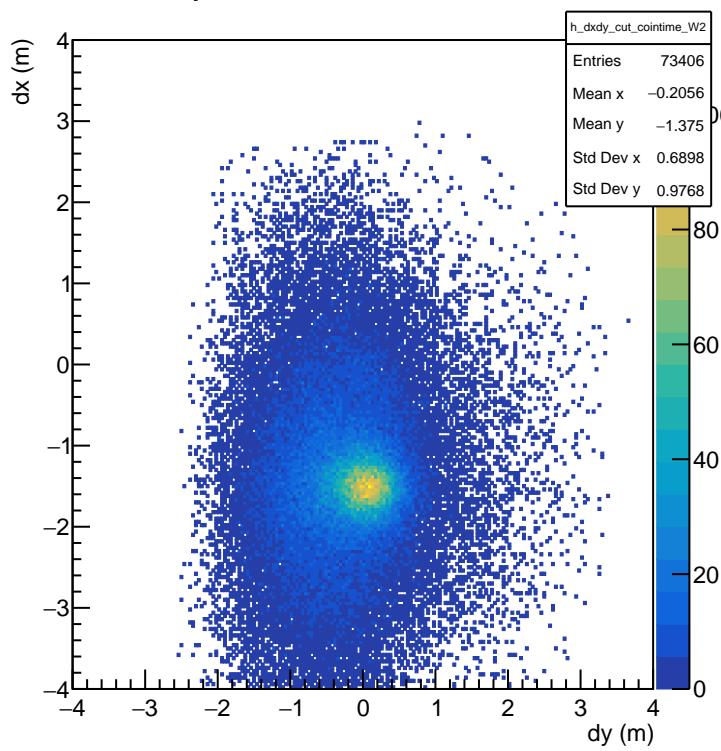
dxdy Ppar and cointime cut



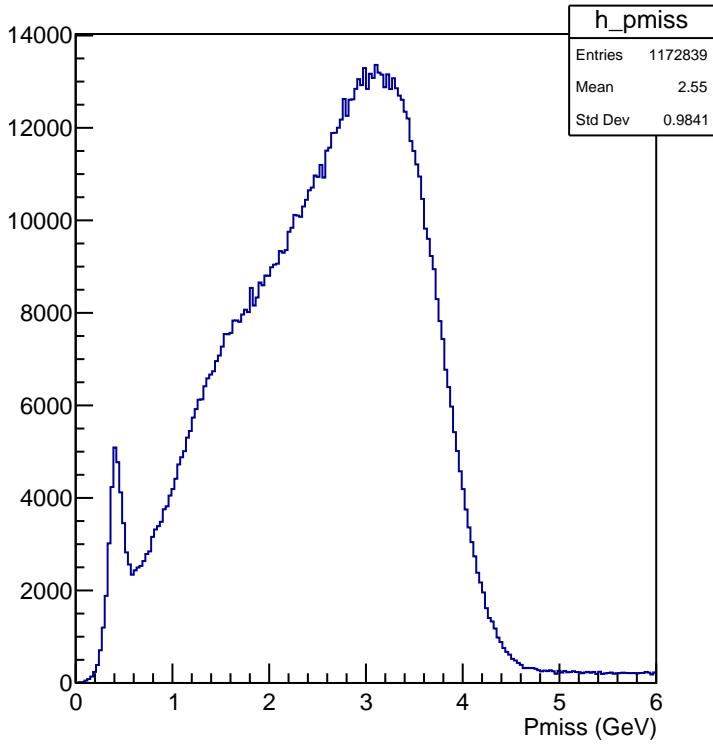
dxdy Ppar, cointime and W2 cut



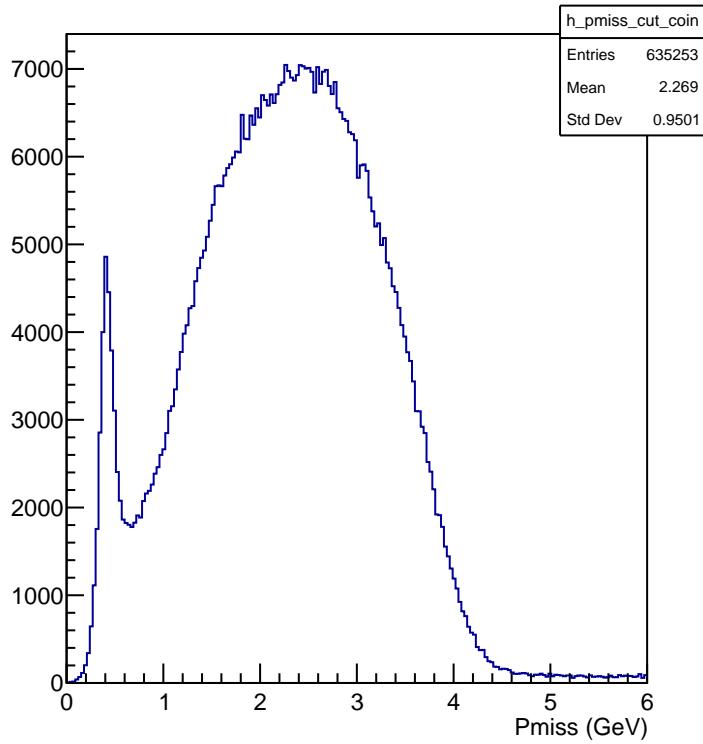
dxdy with cointime and W2 cuts



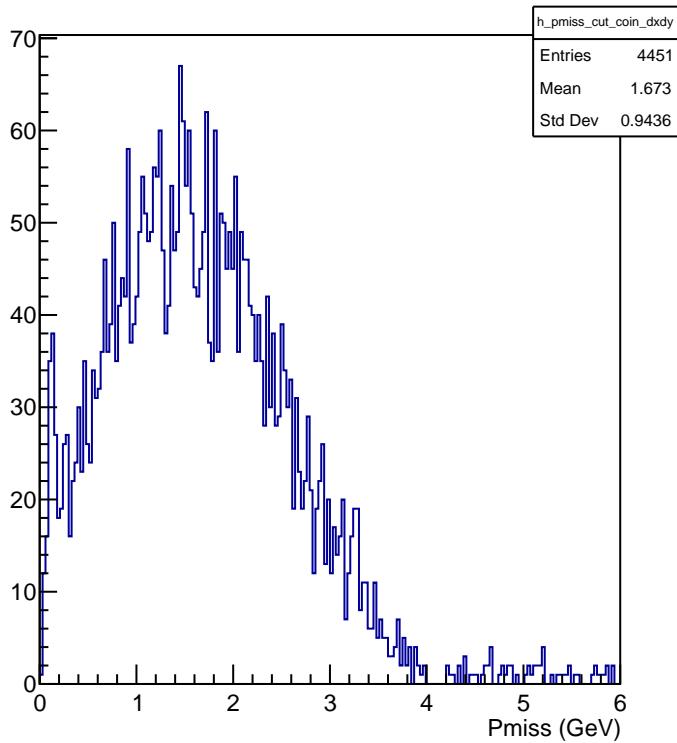
Pmiss distribution



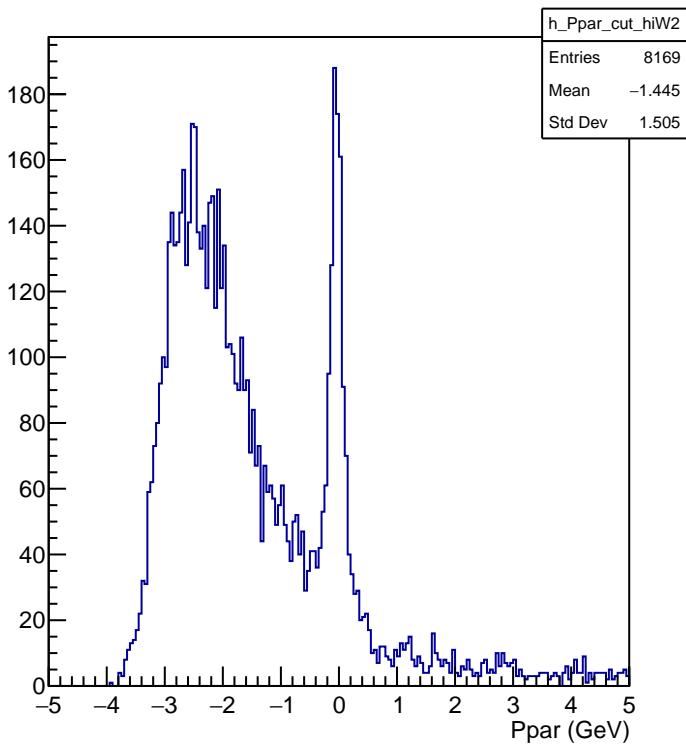
Pmiss distribution only with cointime cut



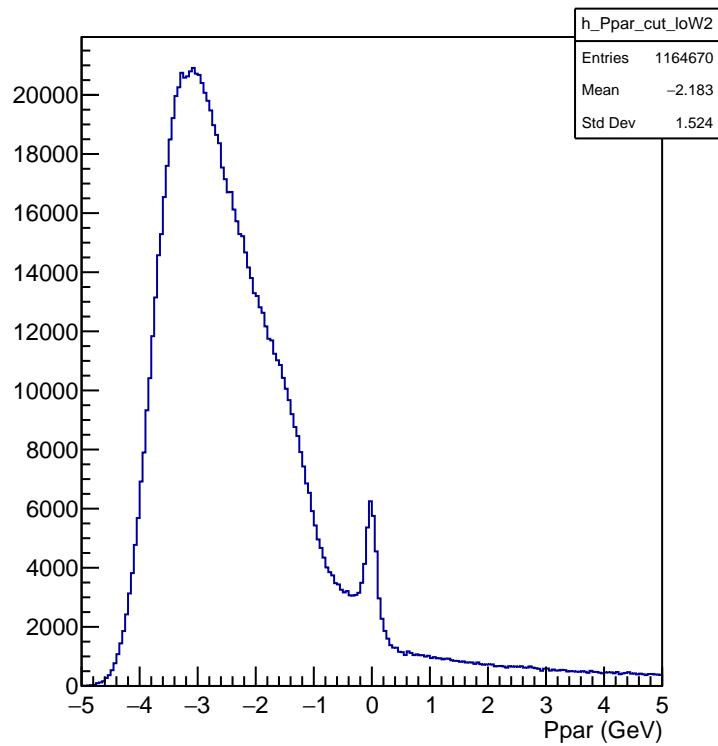
Pmiss distribution with cointime, dx and dy cuts



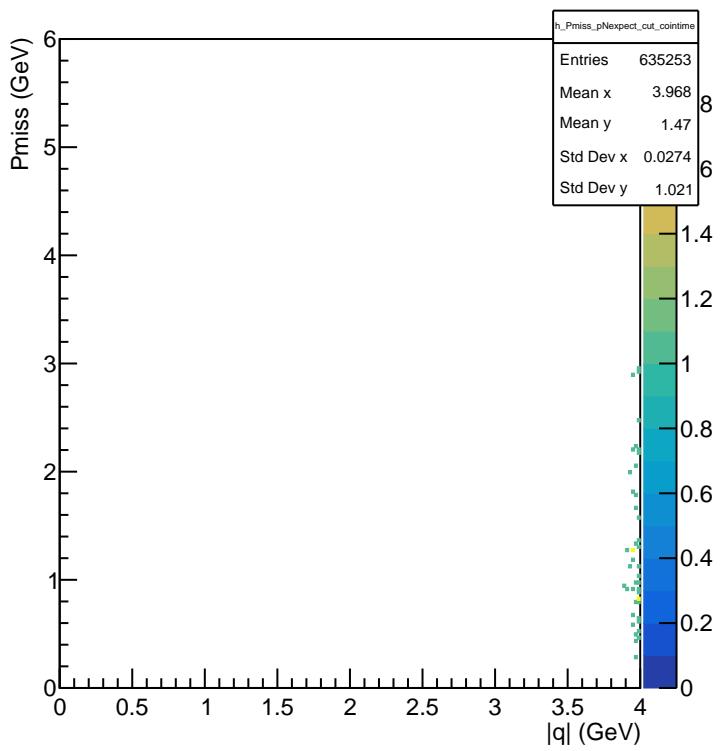
Ppar distribution for W2<0



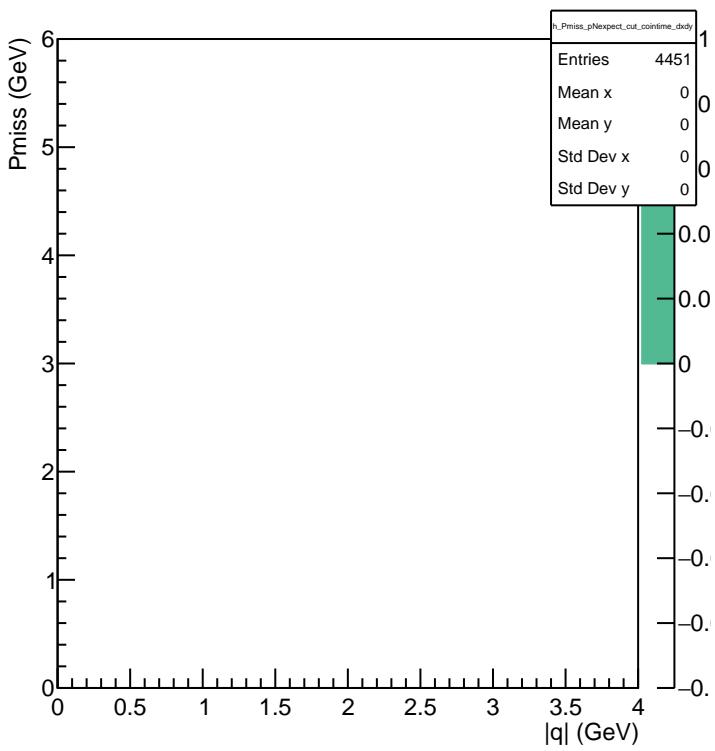
Ppar distribution for W2>=0



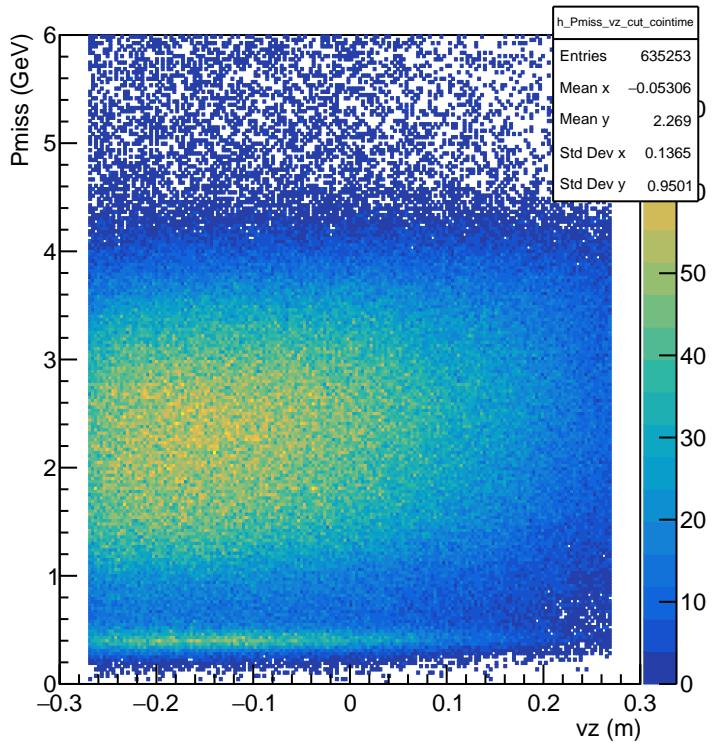
Pmiss v $|q|$ only with coin cut



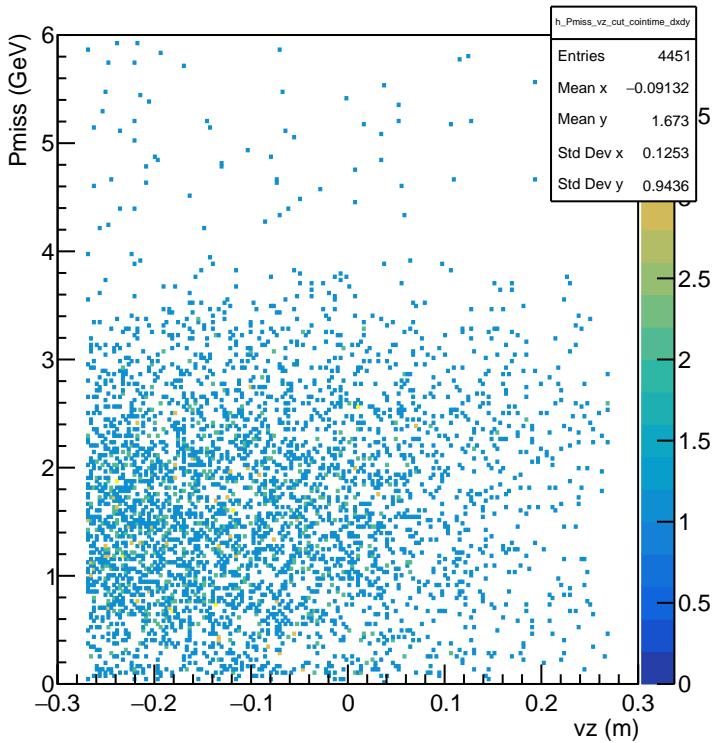
Pmiss v $|q|$ with coin, dx and dy cuts



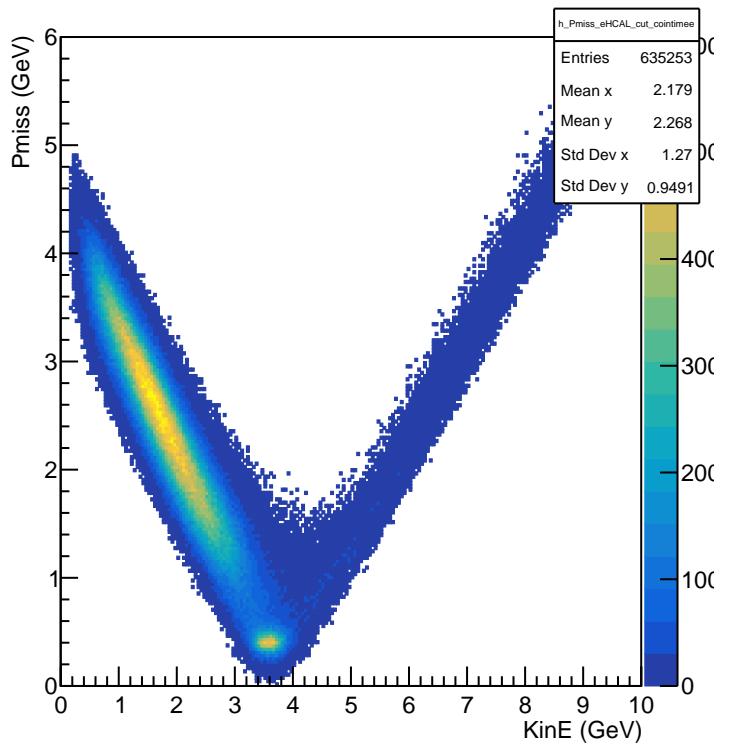
Pmiss v v_z only with coin cut



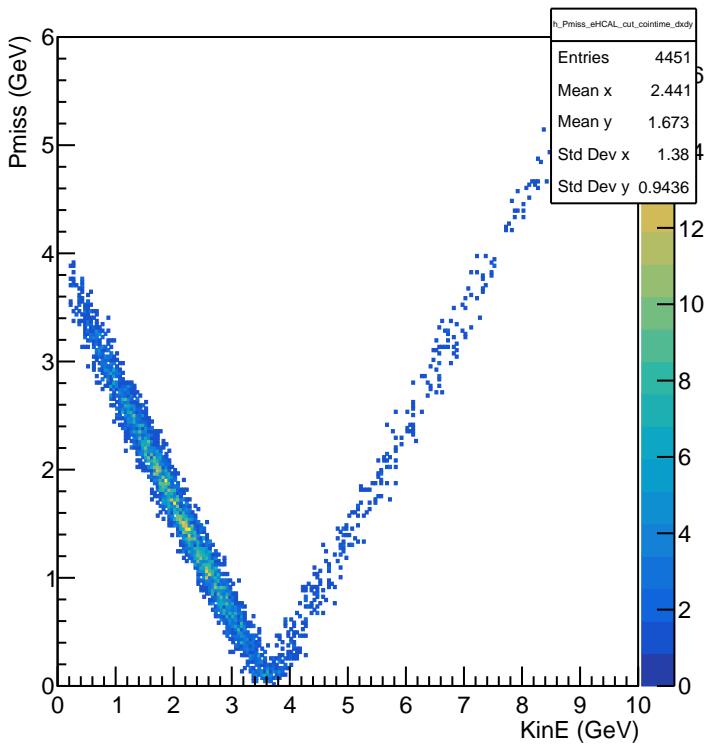
Pmiss v v_z with coin, dx and dy cuts



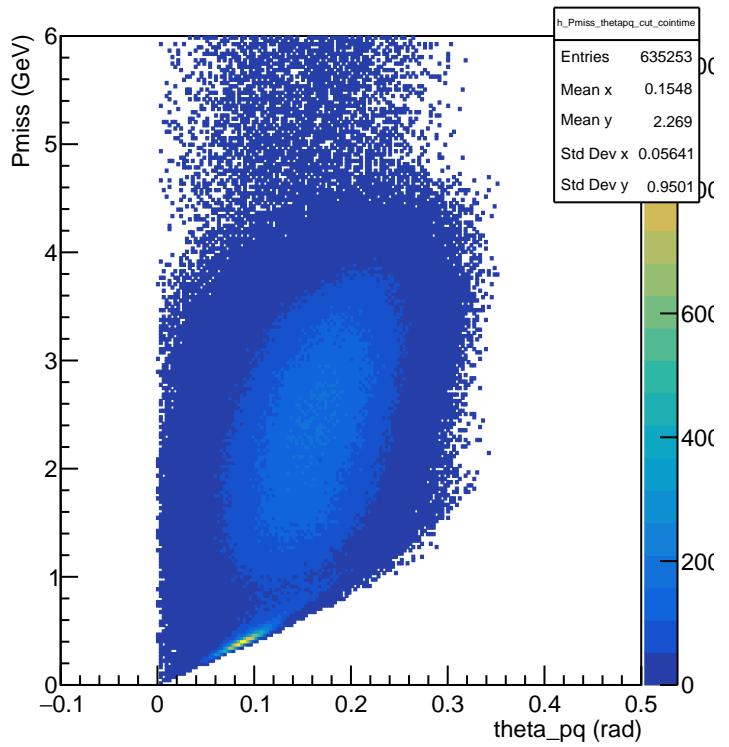
Pmiss v eHCAL (KinE) only with coin cut



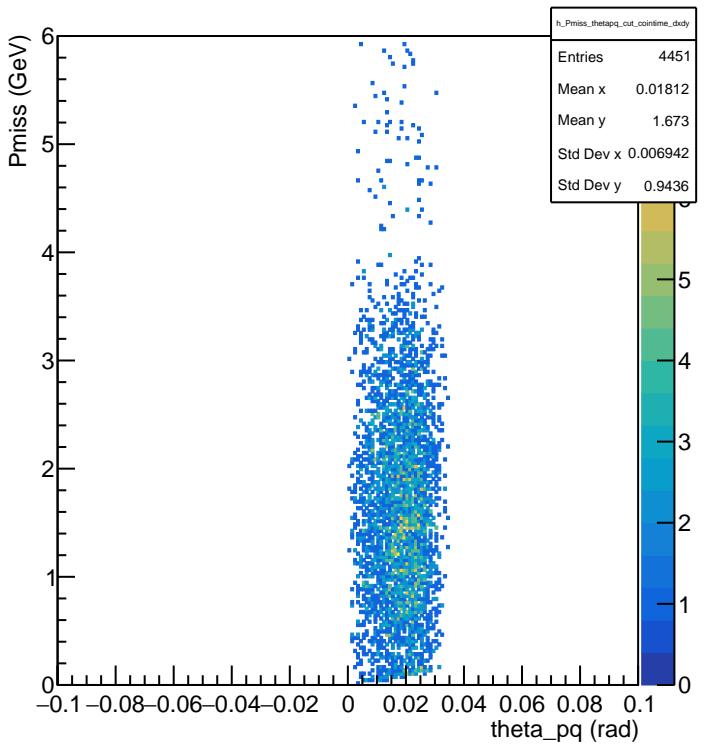
Pmiss v eHCAL (KinE) with coin, dx and dy cuts



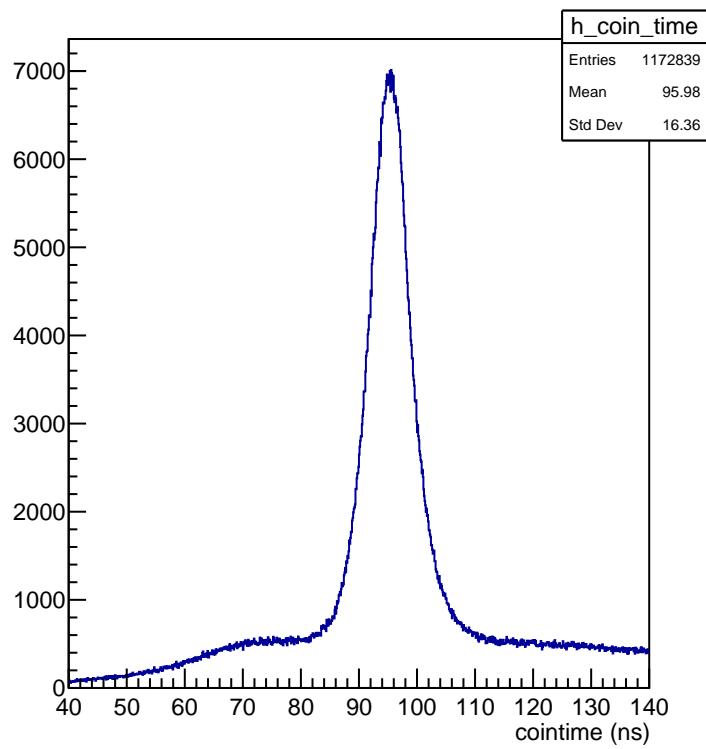
Pmiss v theta_pq only with coin cut



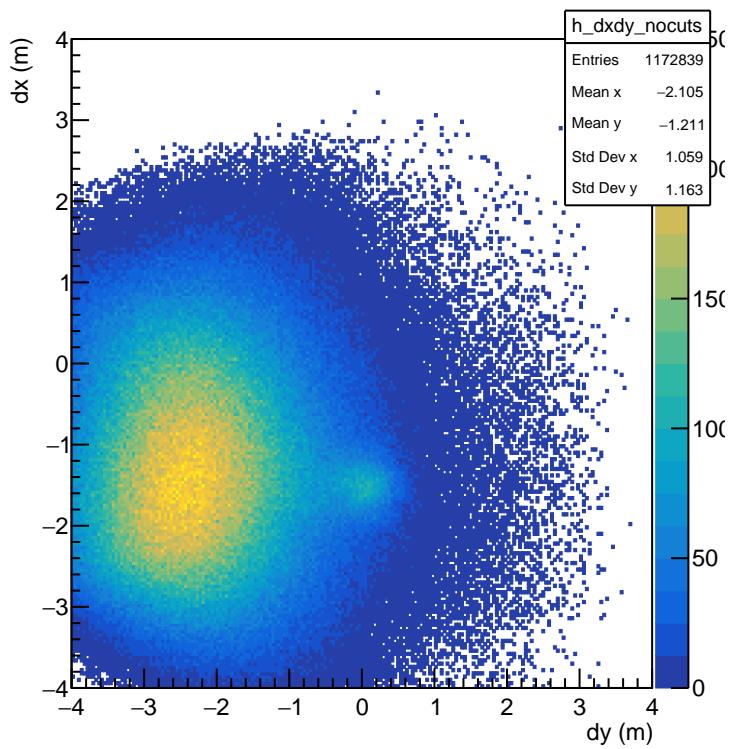
Pmiss v theta_pq with coin, dx and dy cut



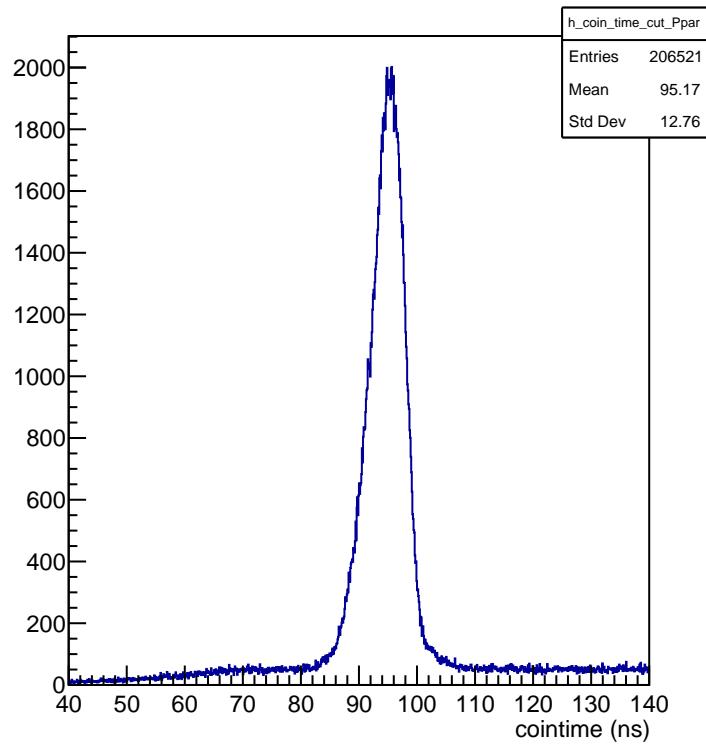
cointime (no cuts)



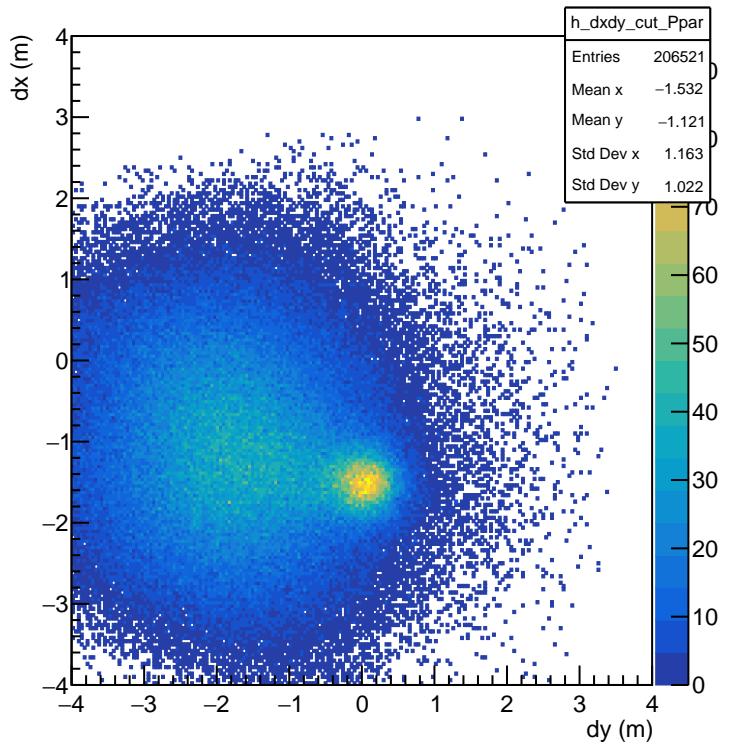
dxdy (no cuts)



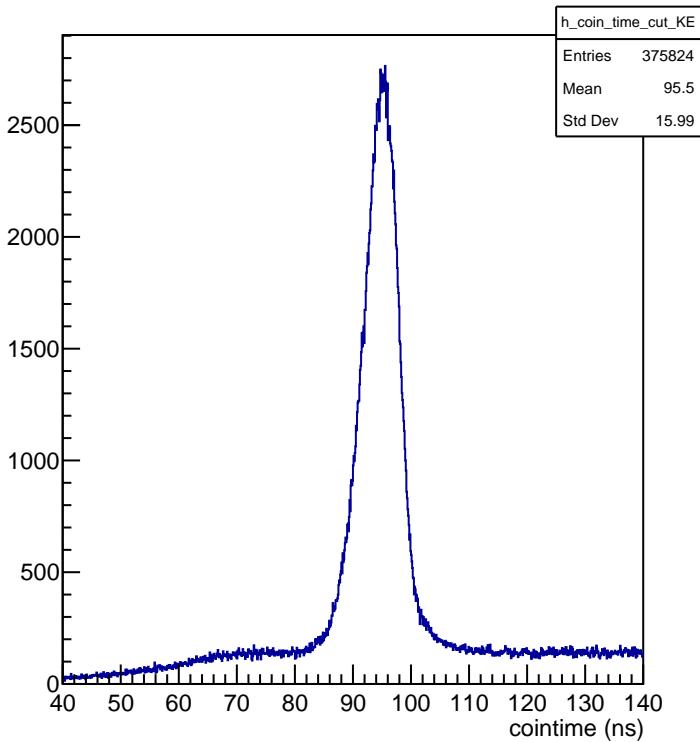
cointime distribution only with Ppar cut



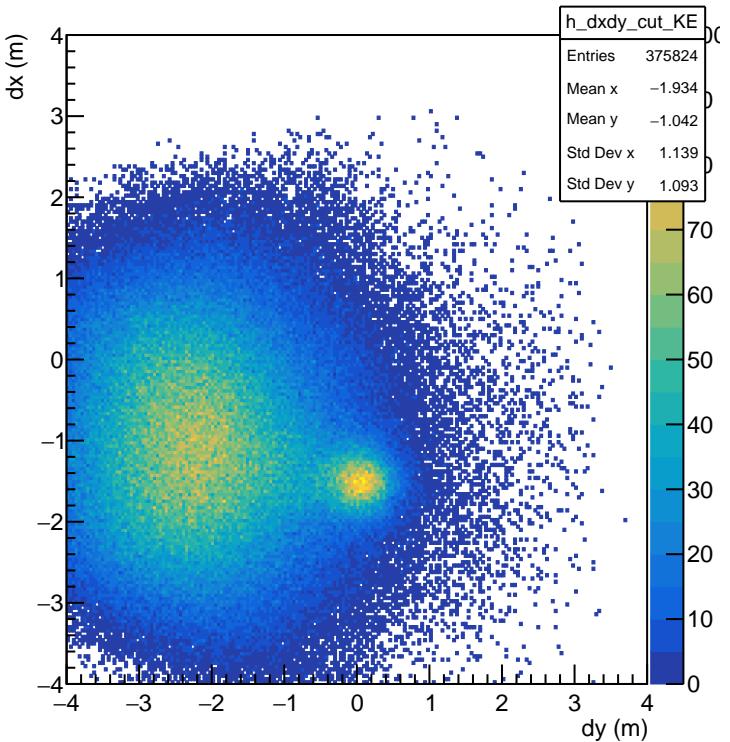
dxdy only with Ppar cut



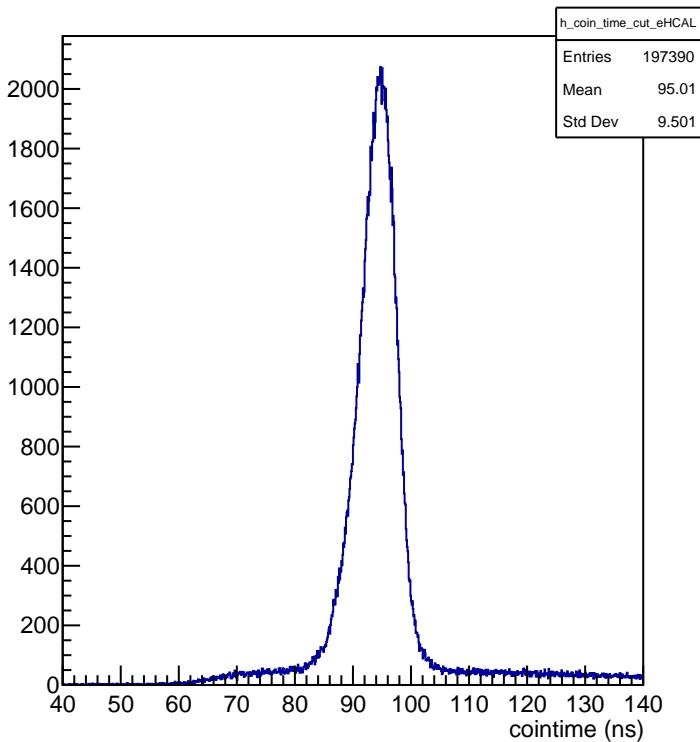
cointime distribution only with KE cut



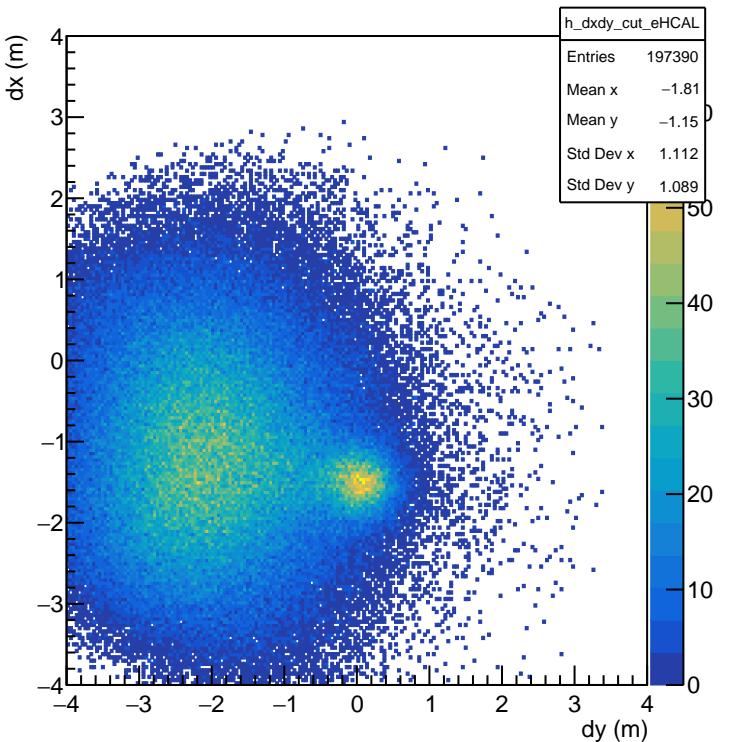
dxdy only with KE cut



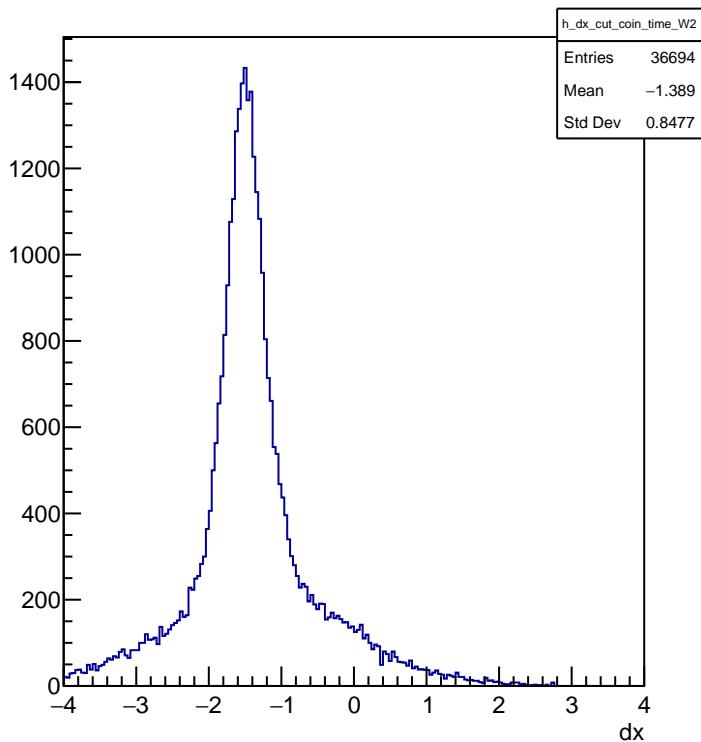
cointime distribution only with eHCAL cut



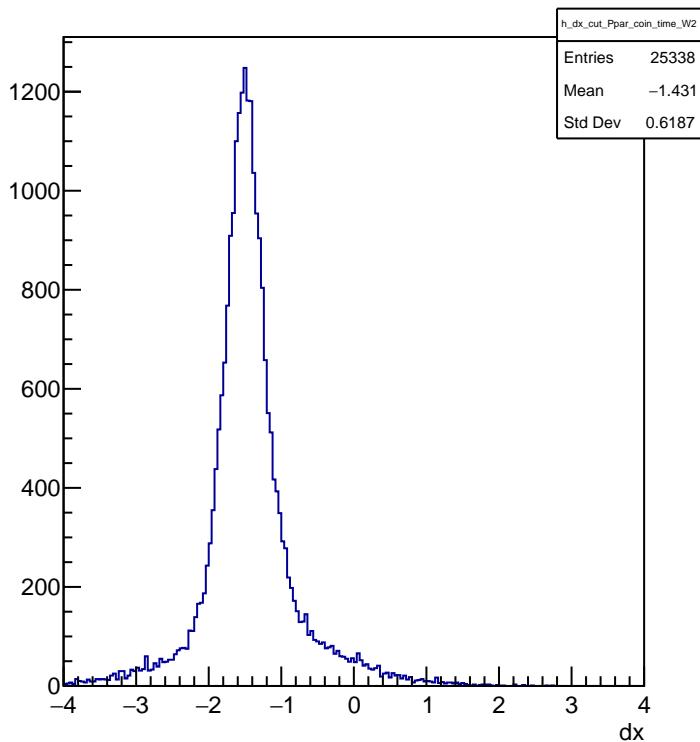
dxdy only with eHCAL cut



dx with cointime, W2, and dy cuts



dx with Ppar, cointime, W2, and dy cuts

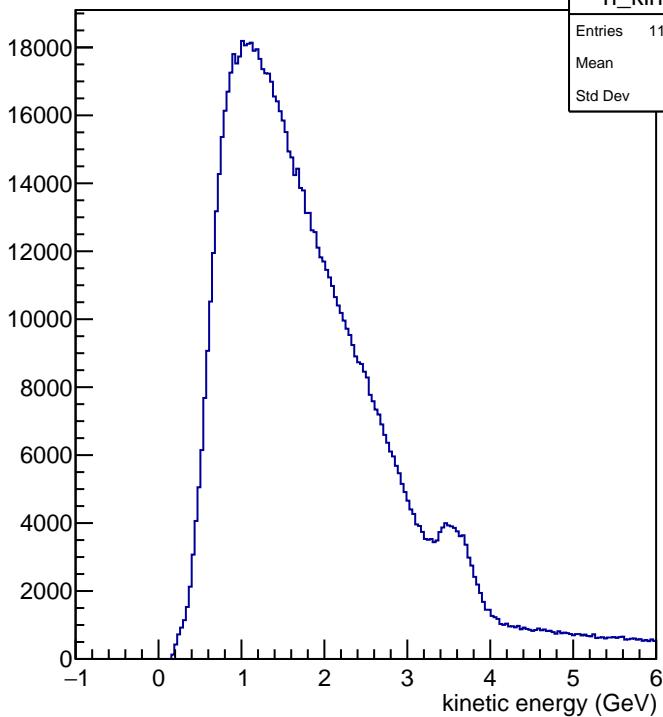
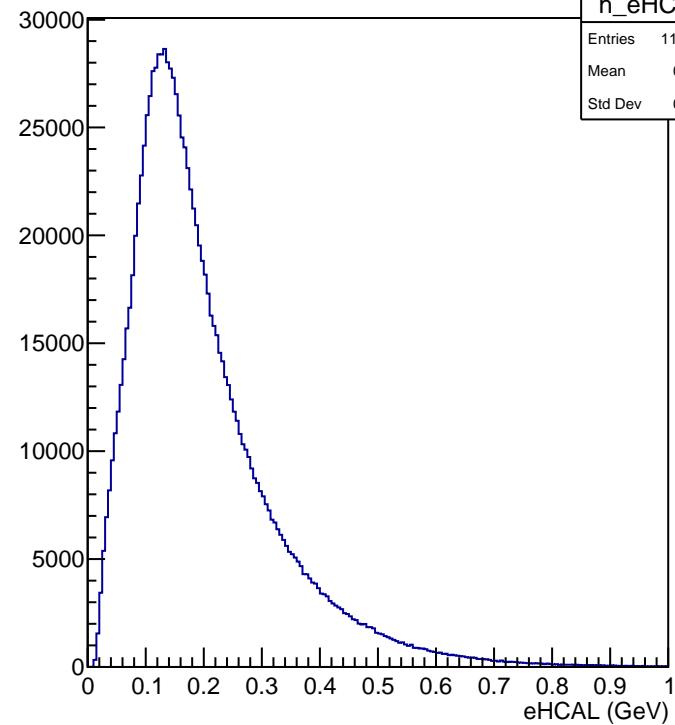


eHCAL distr

h_eHCAL
Entries 1172839
Mean 0.1984
Std Dev 0.1257

kinetic energy

h_kinE
Entries 1172839
Mean 1.864
Std Dev 1.045



Ppar vs eHCAL distribution (no cuts)

h_Ppar_eHCAL
Entries 1172839
Mean x 0.2028
Mean y -2.232
Std Dev x 0.1268
Std Dev y 1.409

