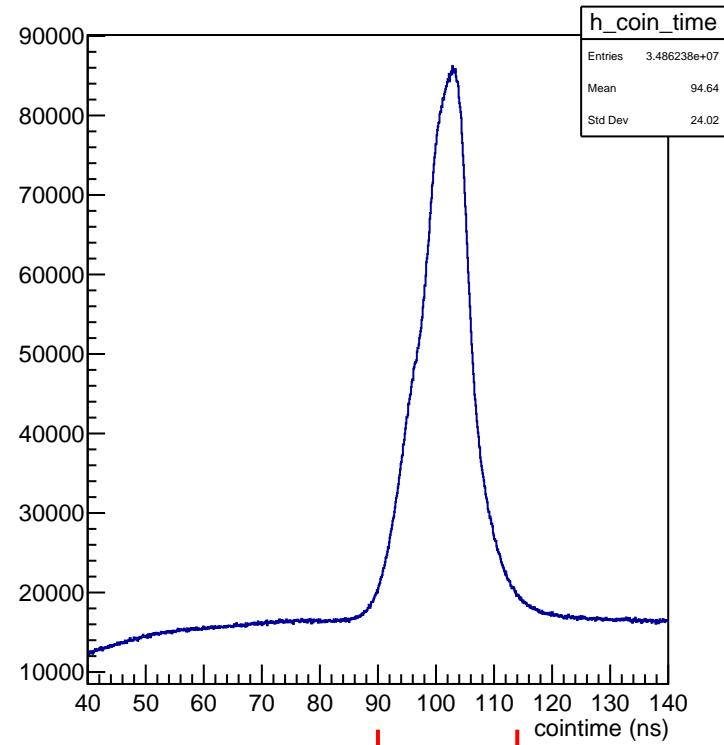
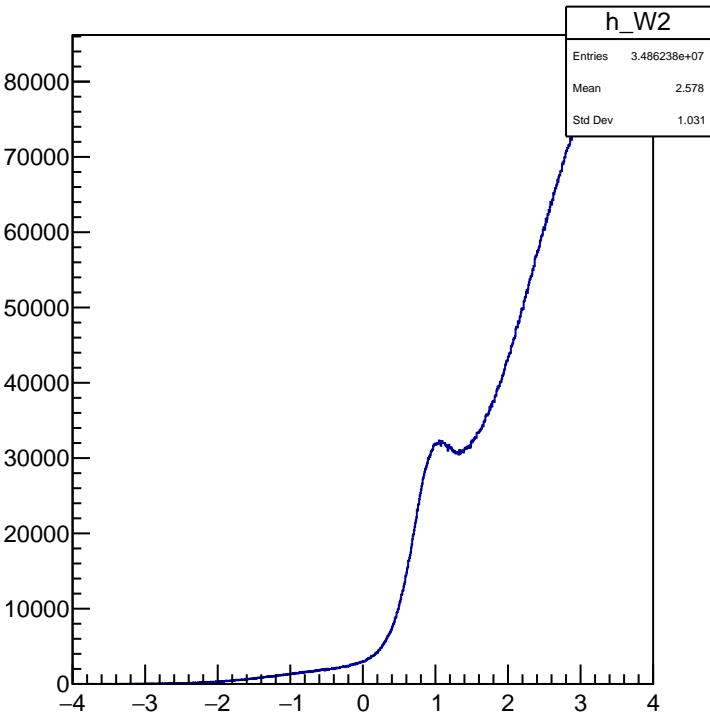


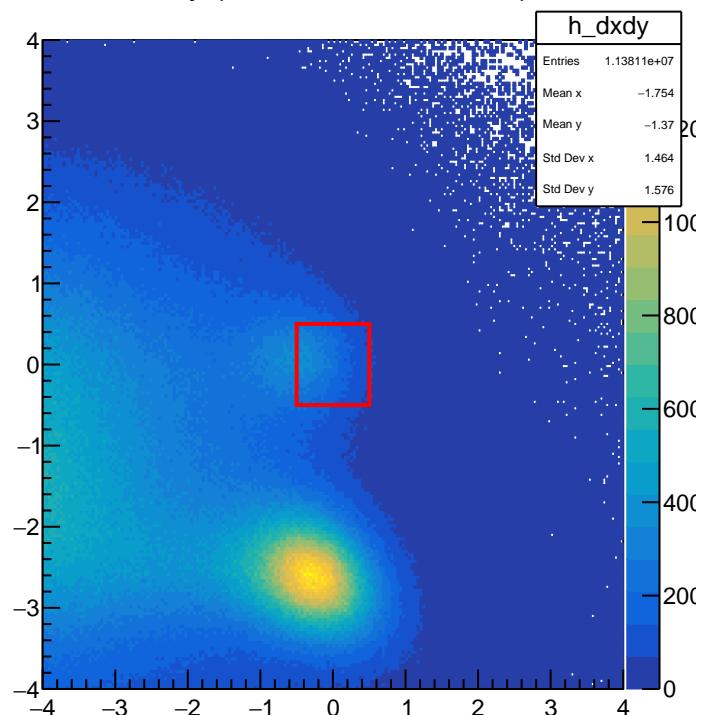
cointime (no cuts)



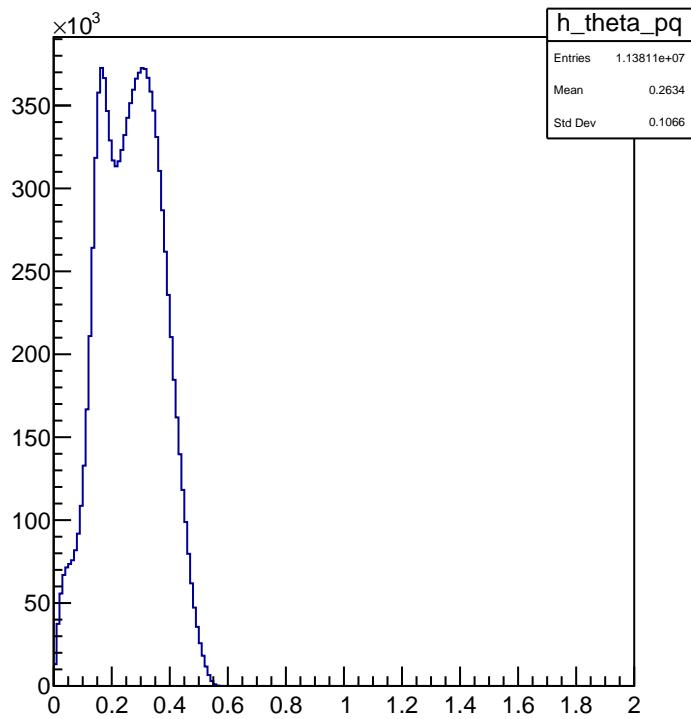
W2



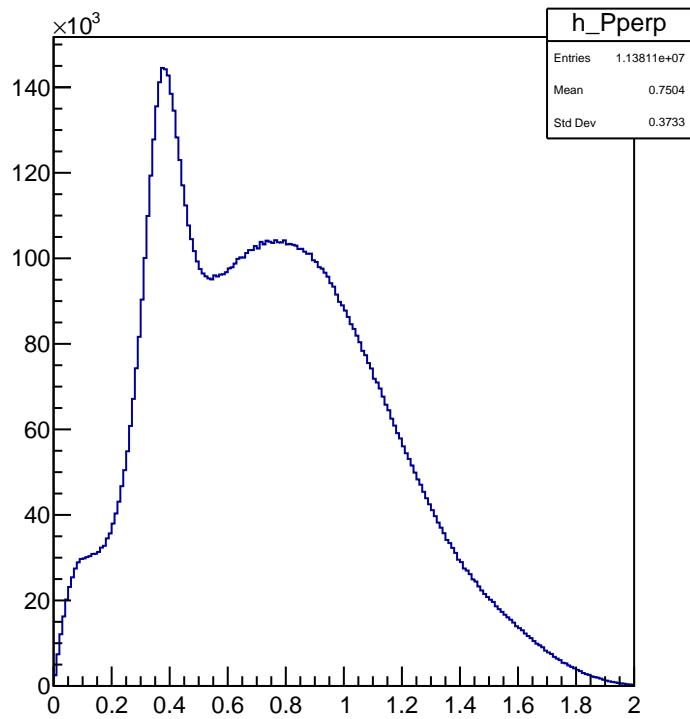
dxdy (cointime cut included)



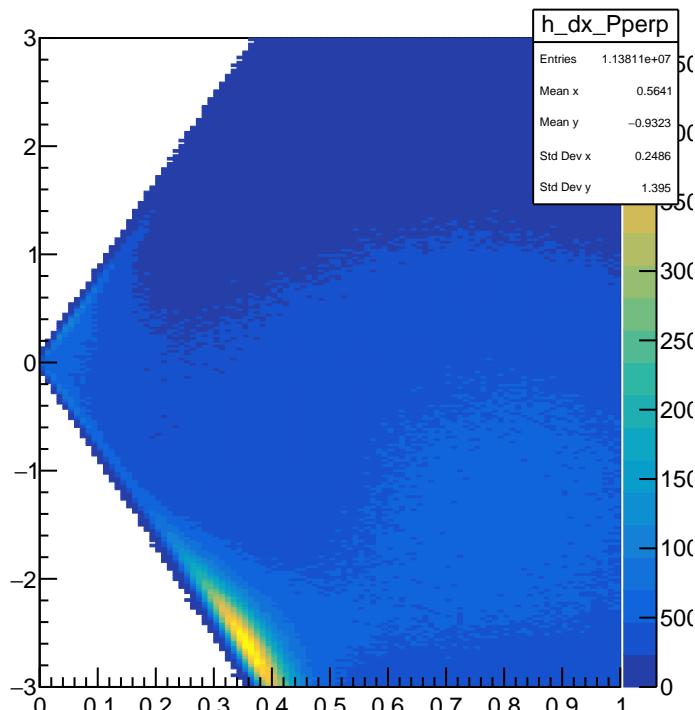
theta_pq only with cointime cut



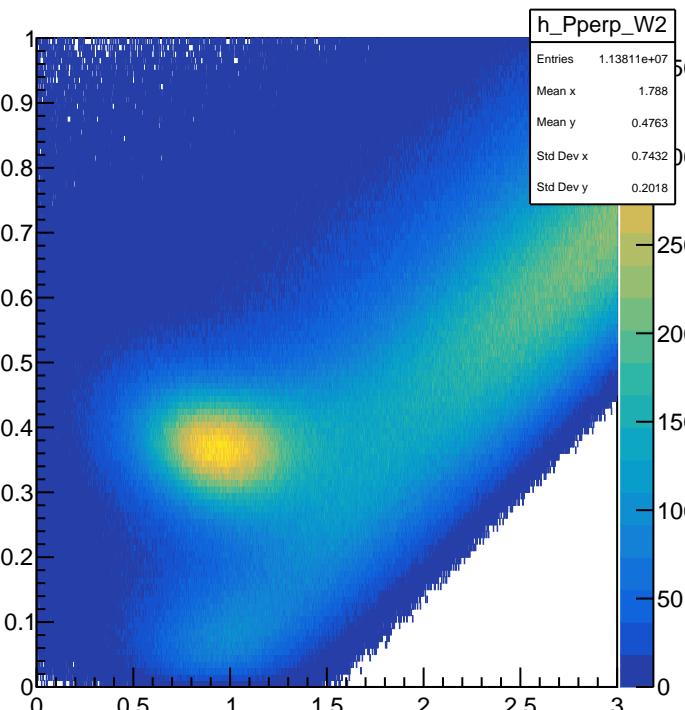
Pperp only with cointime cut



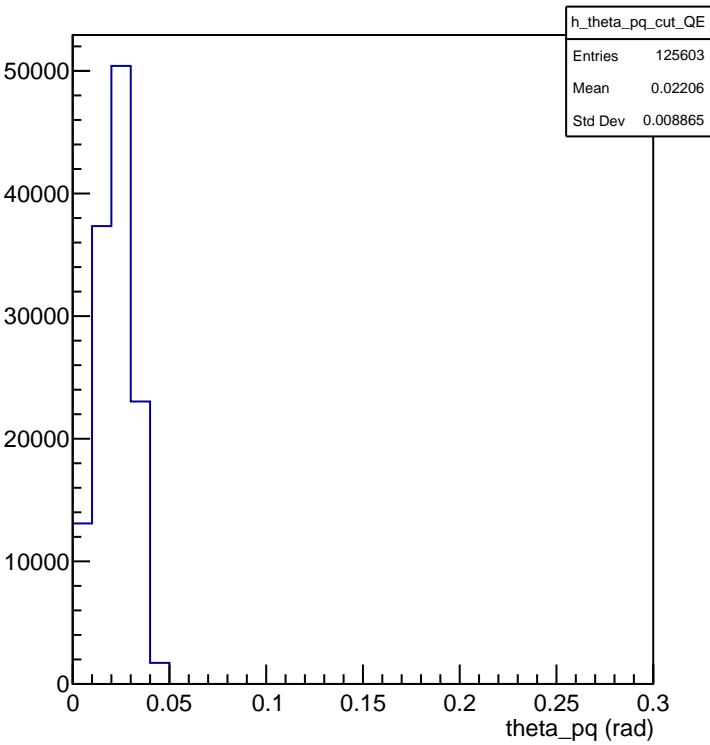
dx v Pperp dist only with cointime cut



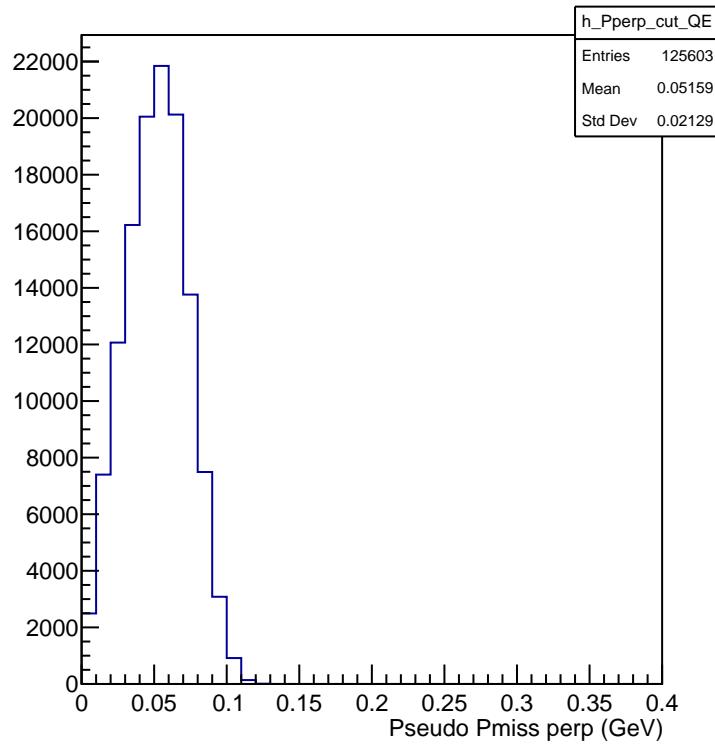
Pperp v W2 dist only with cointime cut



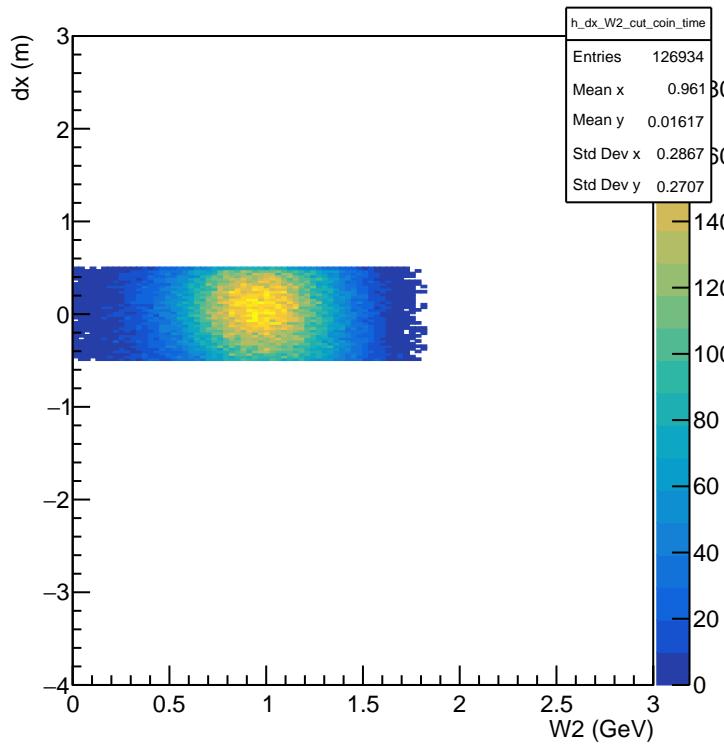
theta_pq with QE cuts



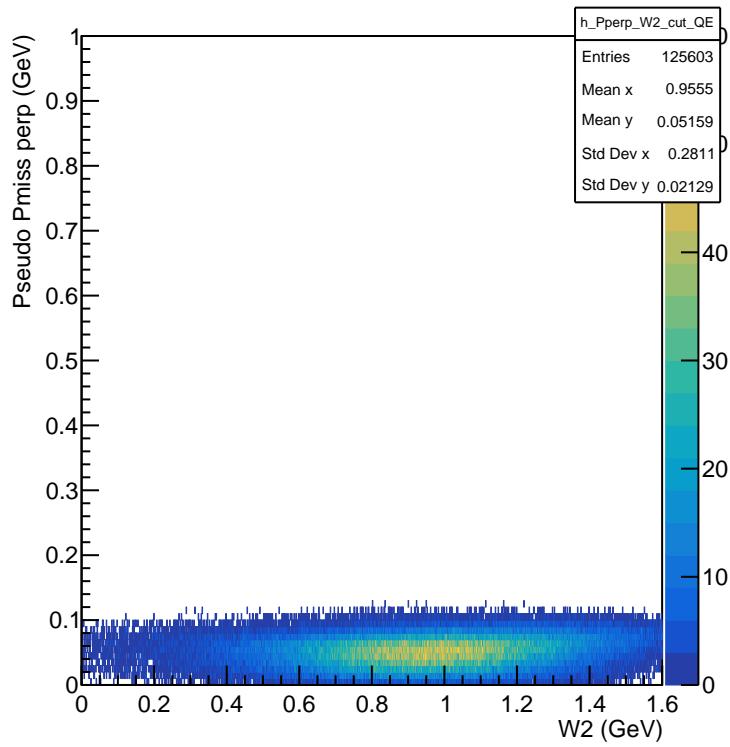
Pperp with QE cuts



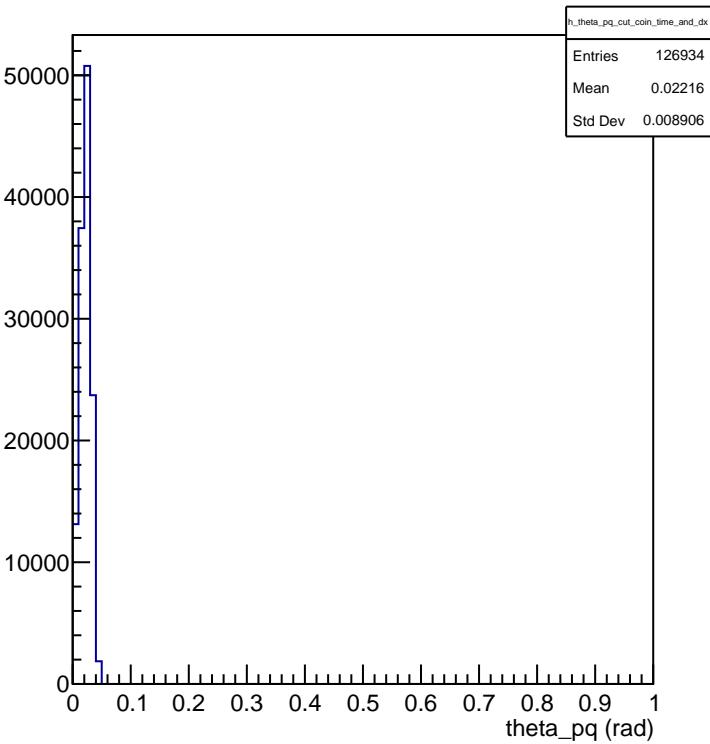
dx v W2 dist with coin time cut



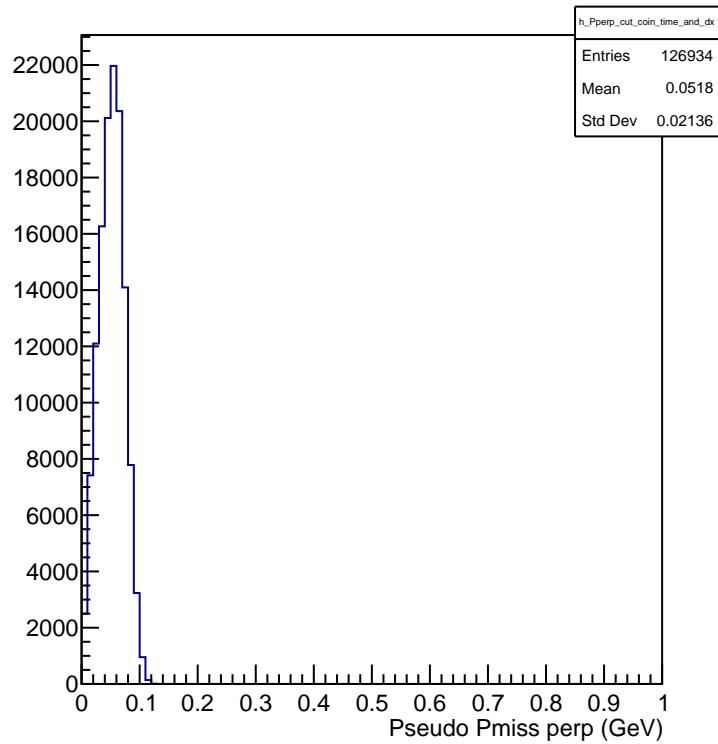
Pperp v W2 dist with QE cuts



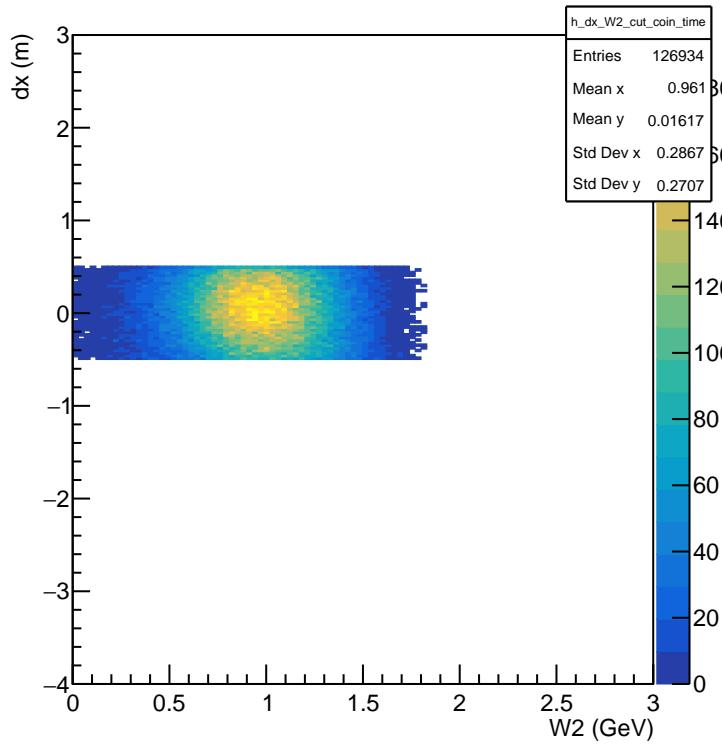
theta_pq coin, dx and dy cuts



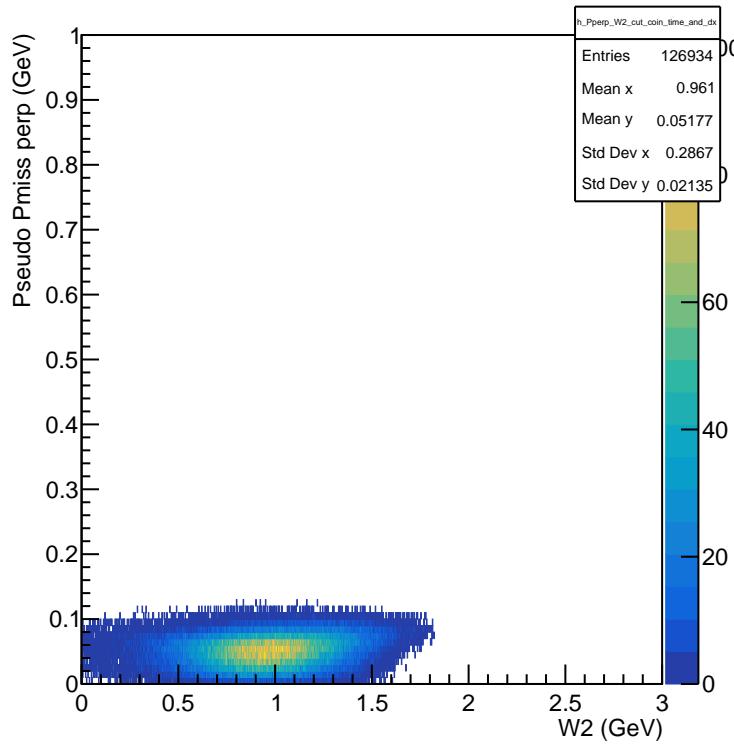
Pperp coin, dx and dy cuts



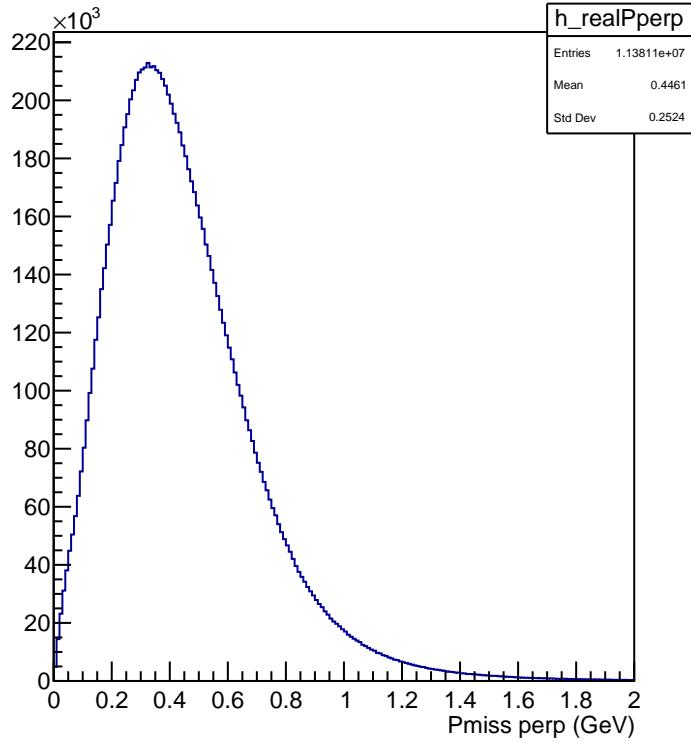
dx v W2 dist with coin time cut



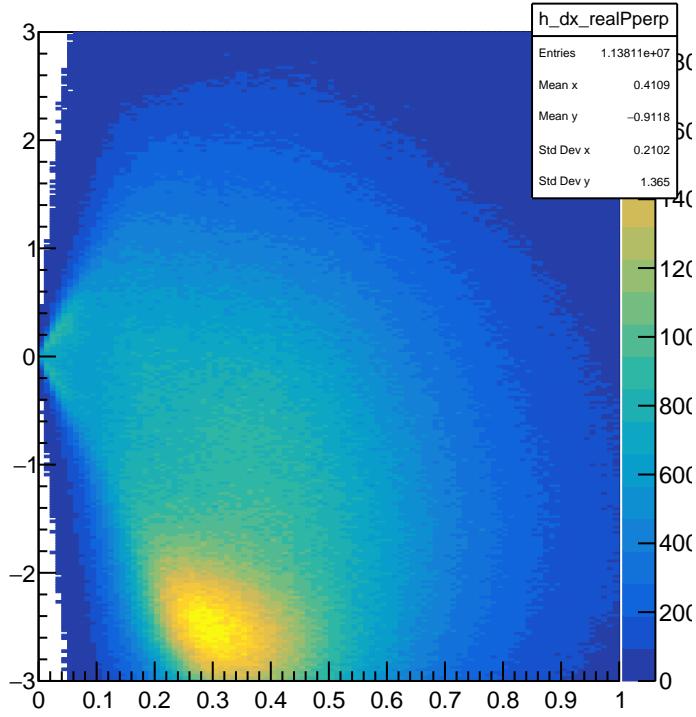
Pperp v W2 dist coin, dx and dy cuts



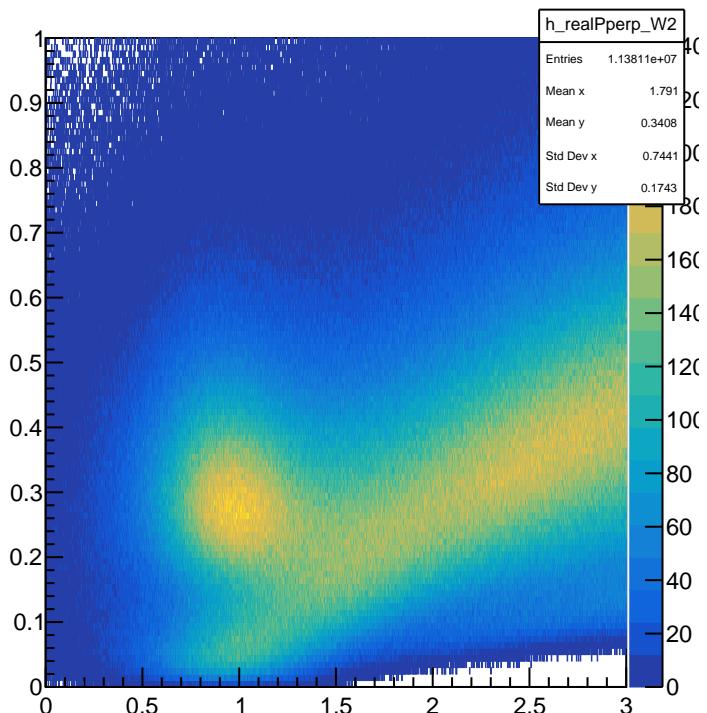
realPperp only with cointime cut



dx v realPperp dist only with cointime cut

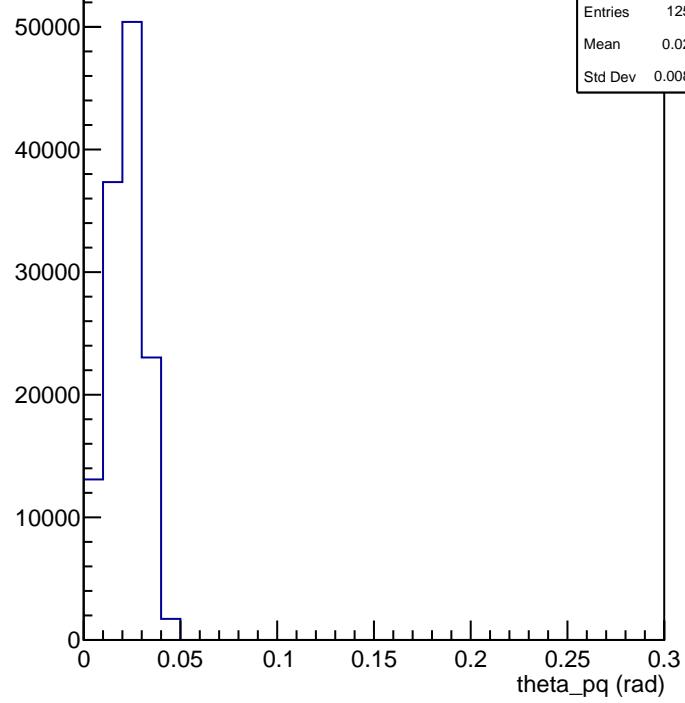


realPperp v W2 dist only with cointime cut



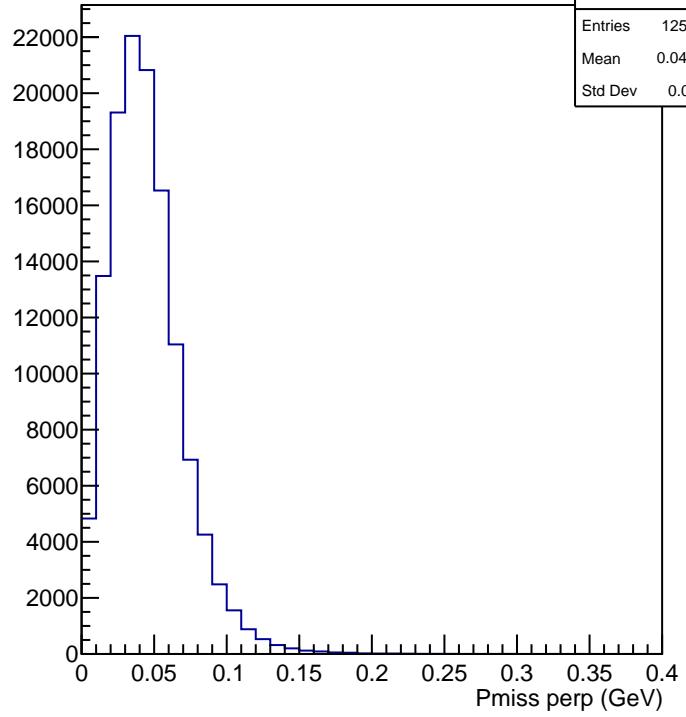
theta_pq with QE cuts

h_theta_pq_cut_QE
Entries 125603
Mean 0.02206
Std Dev 0.008865



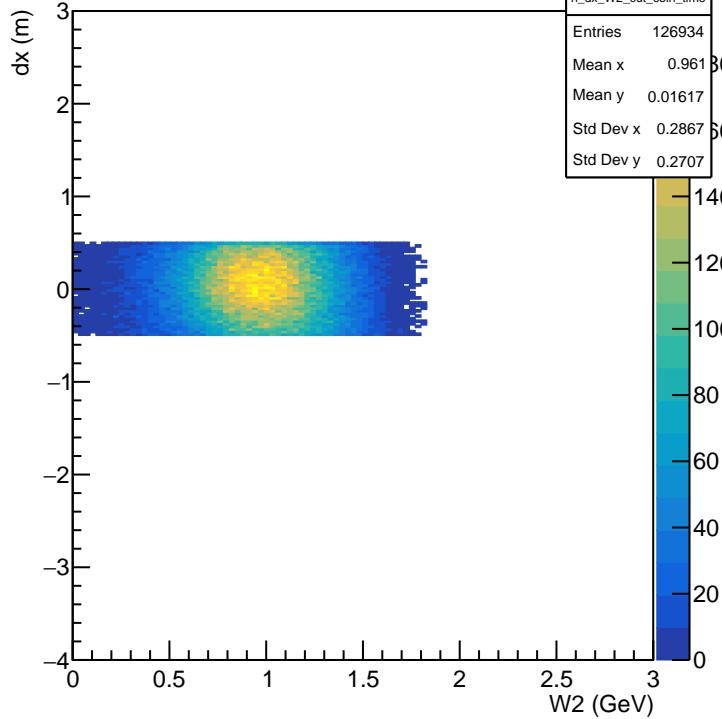
realPperp with QE cuts

h_realPperp_cut_QE
Entries 125603
Mean 0.04486
Std Dev 0.0251



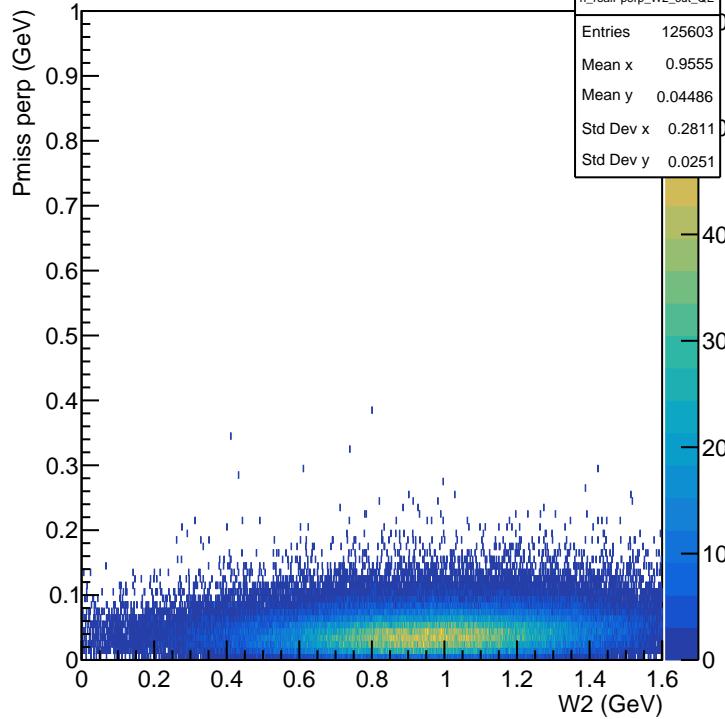
dx v W2 dist with coin time cut

h_dx_W2_cut_coin_time
Entries 126934
Mean x 0.961
Mean y 0.01617
Std Dev x 0.2867
Std Dev y 0.2707

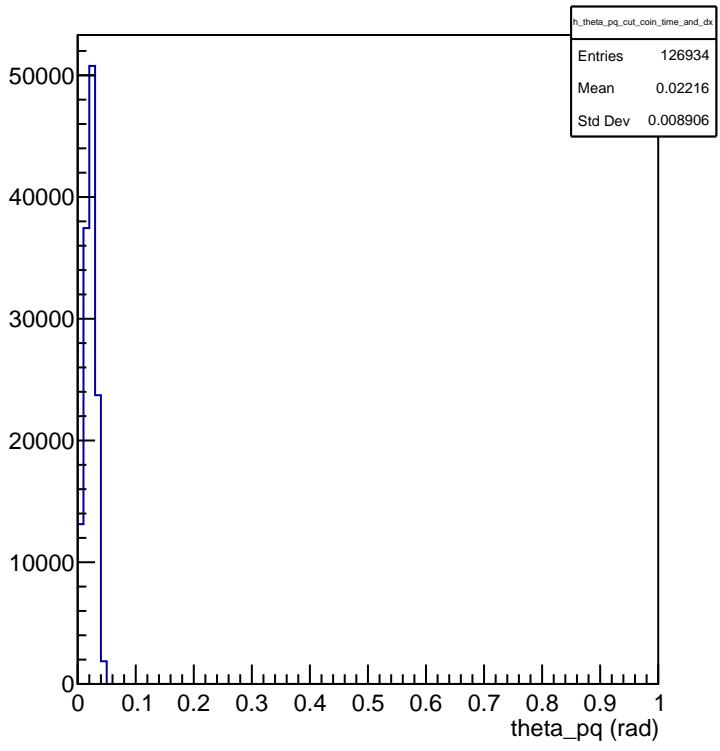


real Pperp v W2 dist with QE cuts

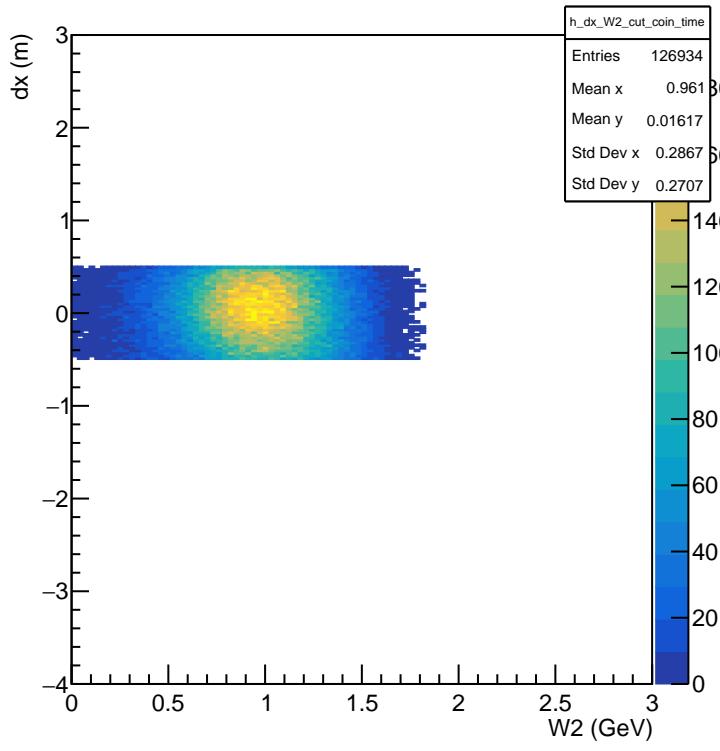
h_realPperp_W2_cut_QE
Entries 125603
Mean x 0.9555
Mean y 0.04486
Std Dev x 0.2811
Std Dev y 0.0251



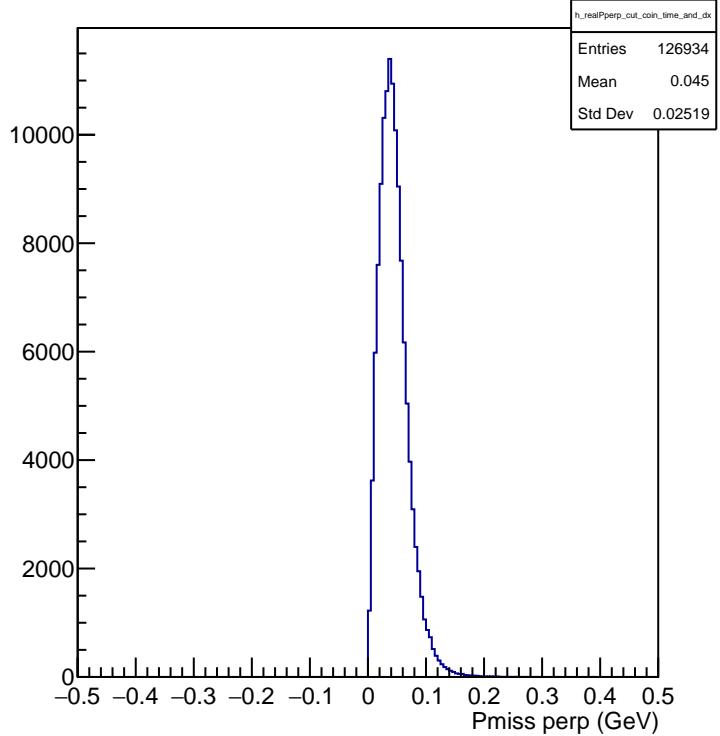
theta_pq coin, dx and dy cuts



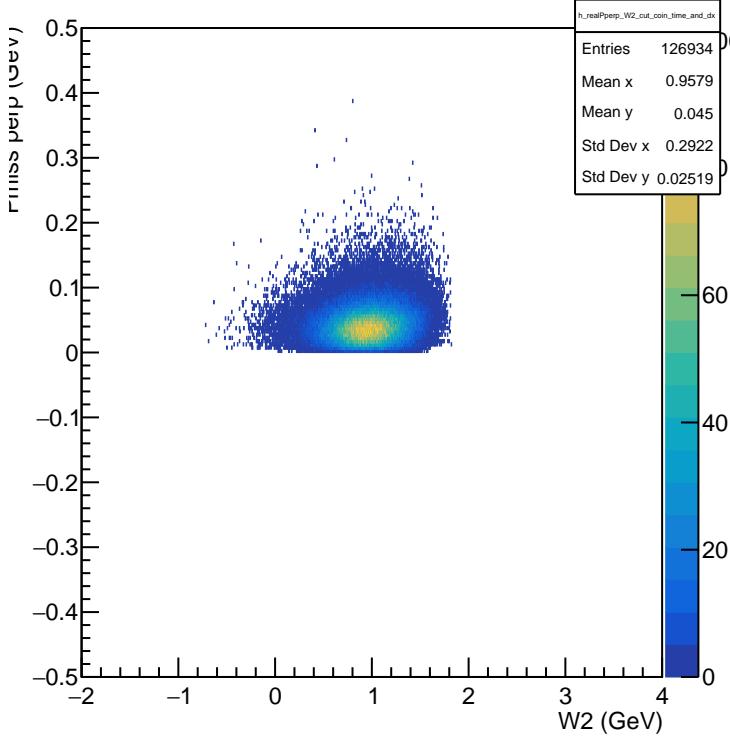
dx v W2 dist with coin time cut



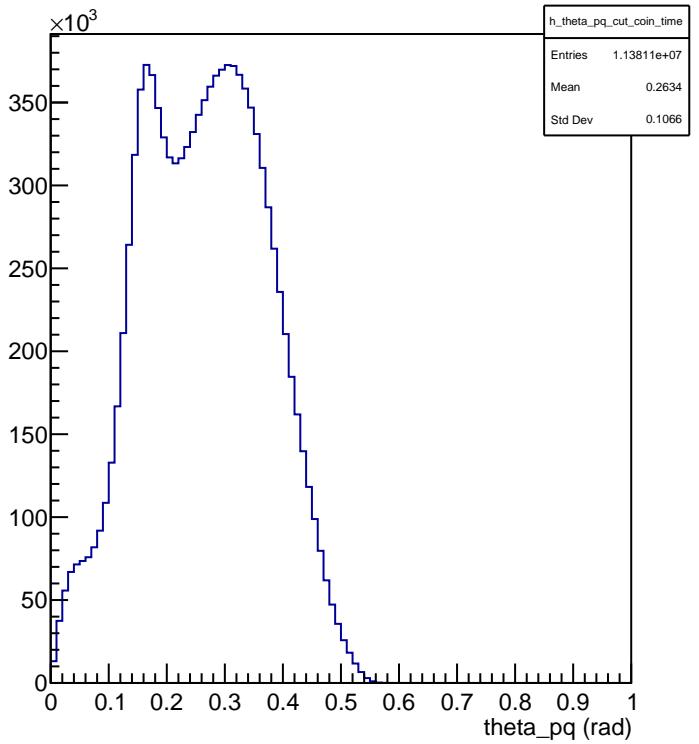
realPperp coin, dx and dy cuts



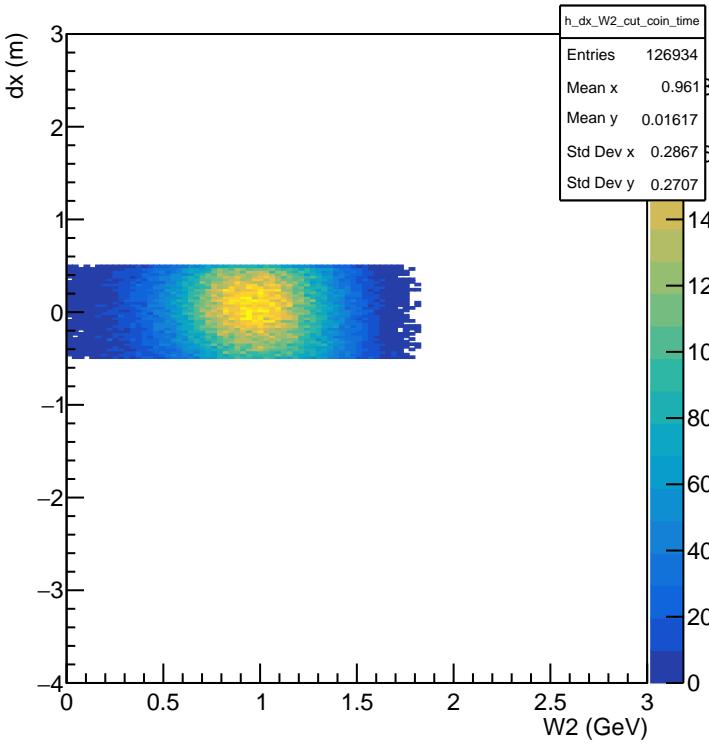
realPperp v W2 dist coin, dx and dy cuts



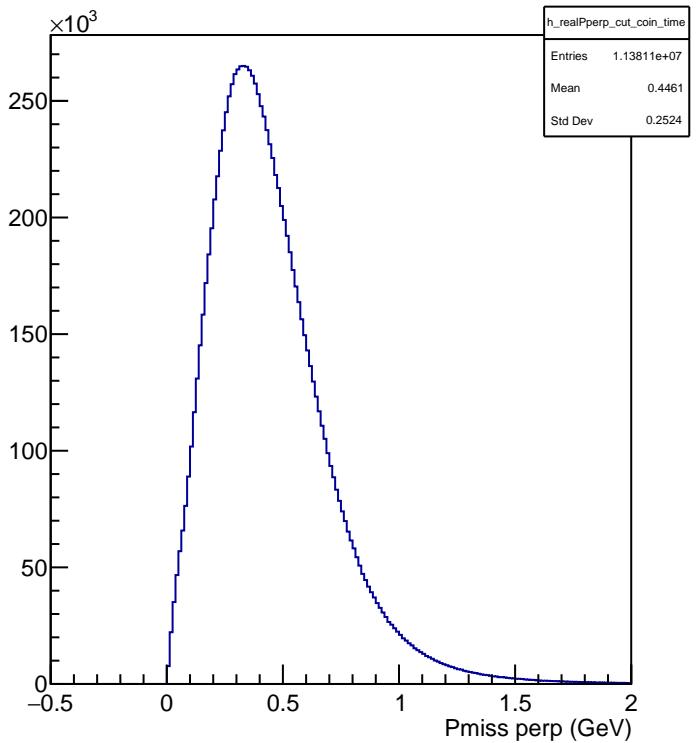
theta_pq only with coin cut



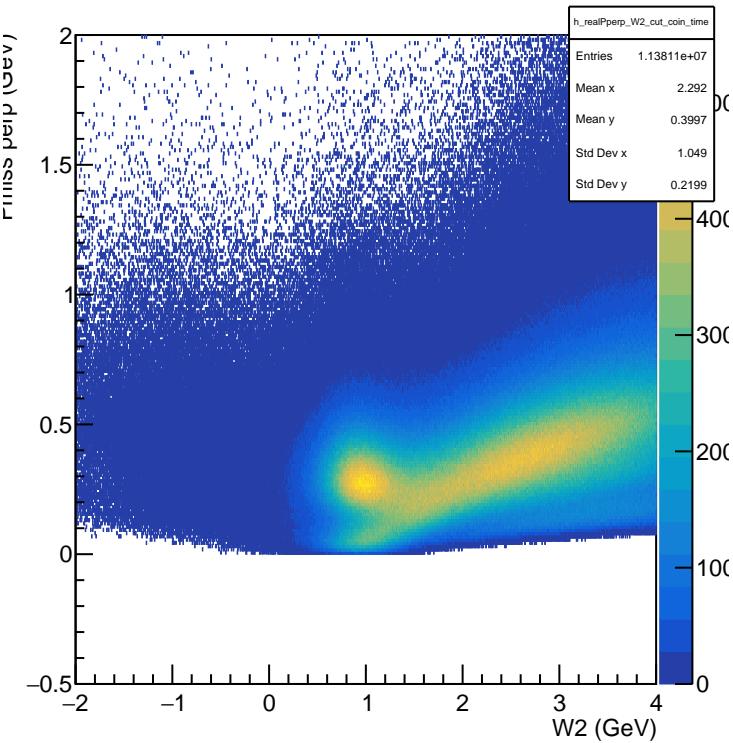
dx v W2 dist with coin time cut



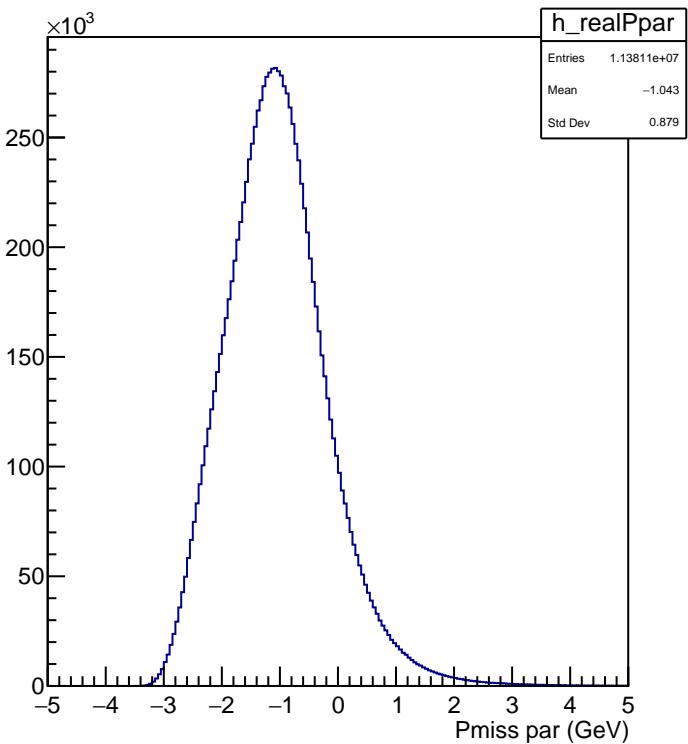
realPperp only with coin cut



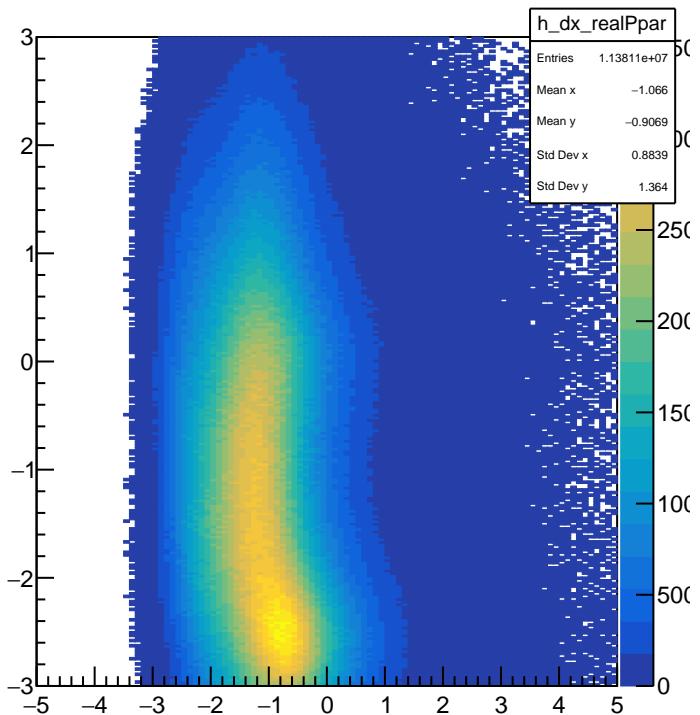
realPperp v W2 dist only with coin cut



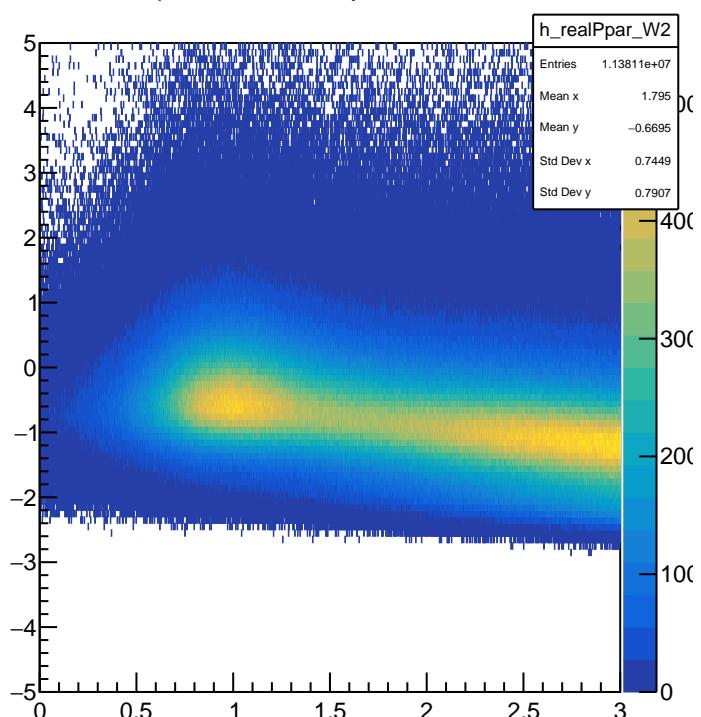
realPpar only with cointime cut



dx v realPpar dist only with cointime cut



realPpar v W2 dist only with cointime cut

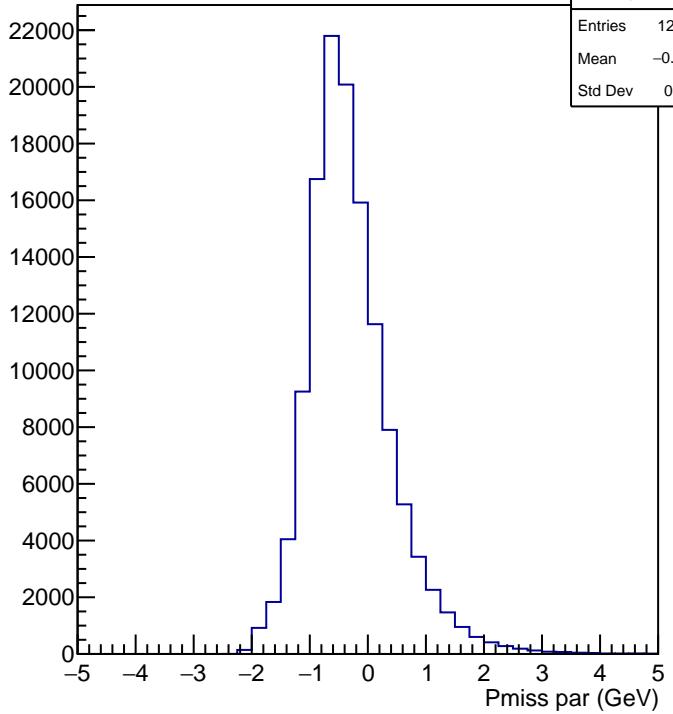
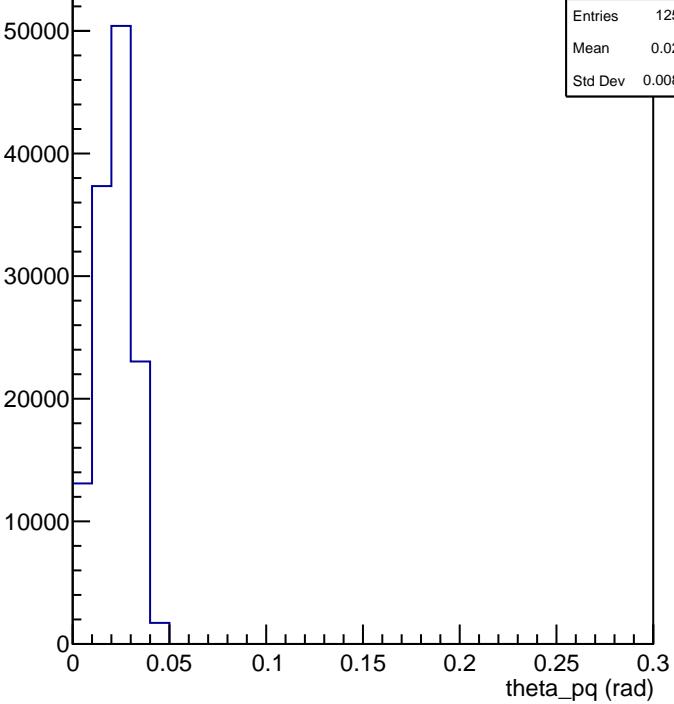


theta_pq with QE cuts

h_theta_pq_cut_QE
Entries 125603
Mean 0.02206
Std Dev 0.008865

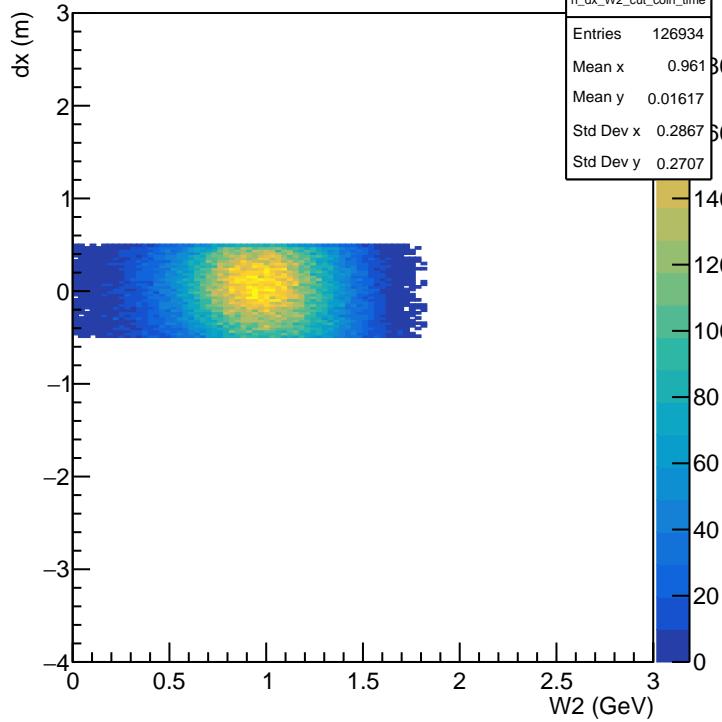
realPpar with QE cuts

h_realPpar_cut_QE
Entries 125603
Mean -0.2977
Std Dev 0.7291



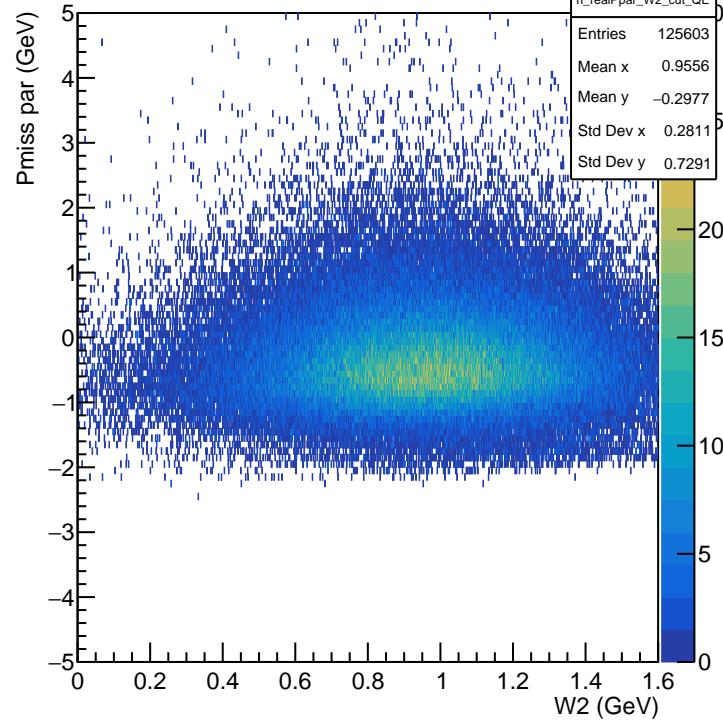
dx v W2 dist with coin time cut

h_dx_W2_cut_coin_time
Entries 126934
Mean x 0.961
Mean y 0.01617
Std Dev x 0.2867
Std Dev y 0.2707

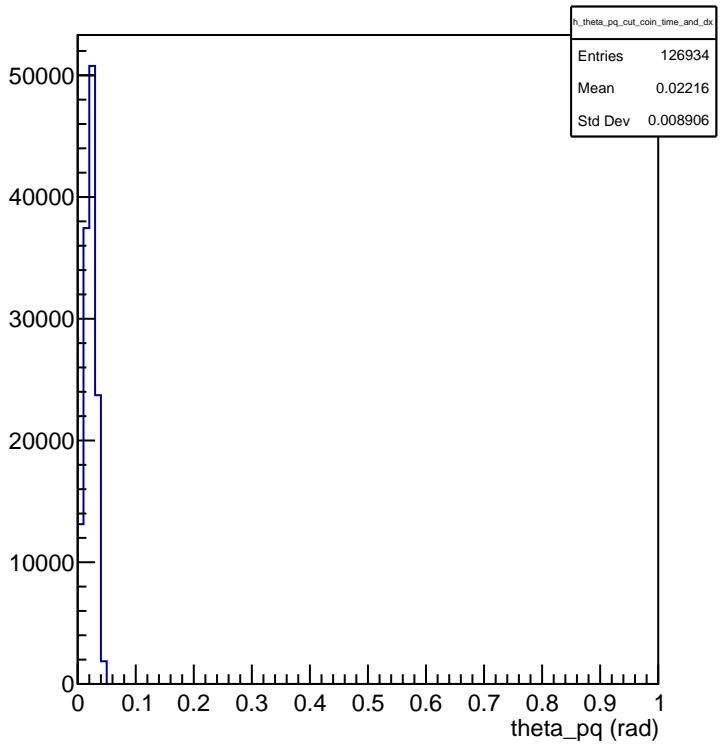


real Ppar v W2 dist with QE cuts

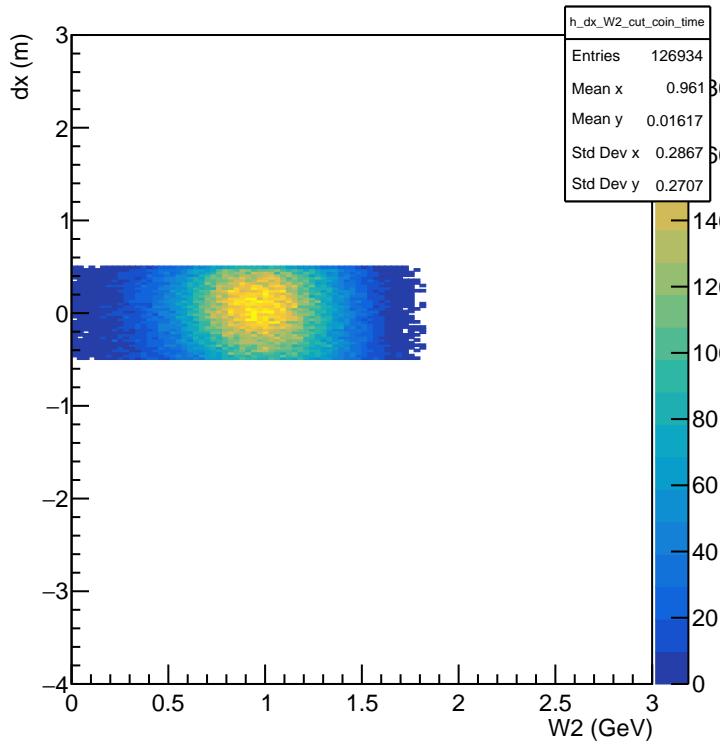
h_realPpar_W2_cut_QE
Entries 125603
Mean x 0.9556
Mean y -0.2977
Std Dev x 0.2811
Std Dev y 0.7291



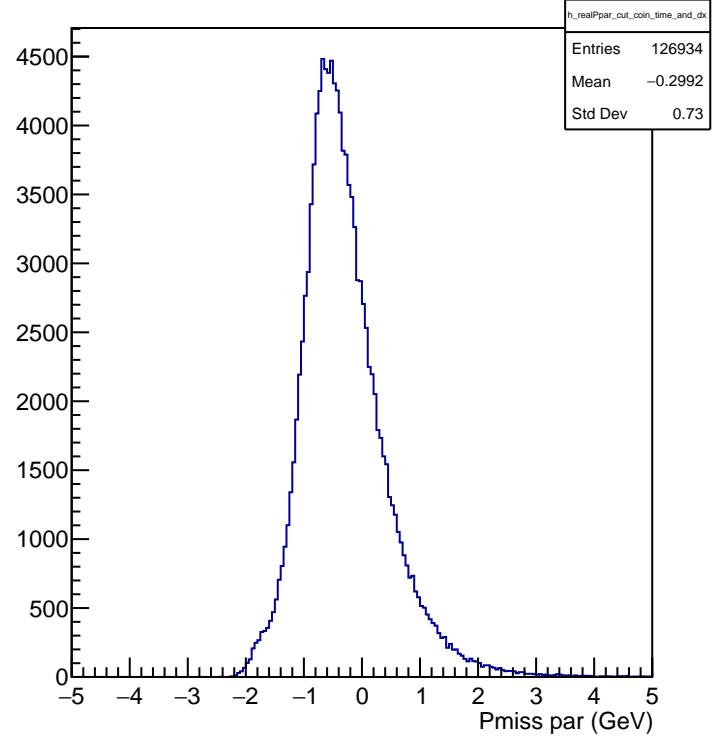
theta_pq coin, dx and dy cuts



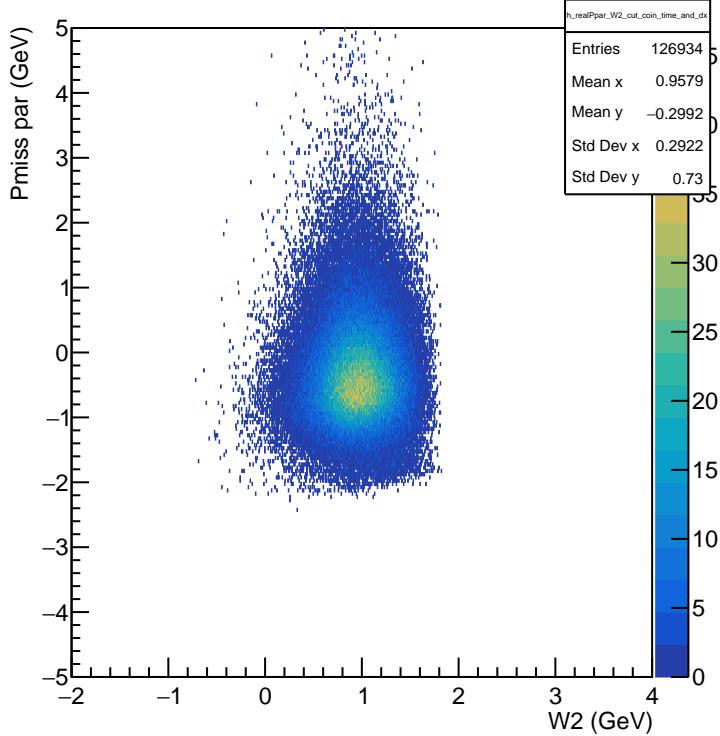
dx v W2 dist with coin time cut



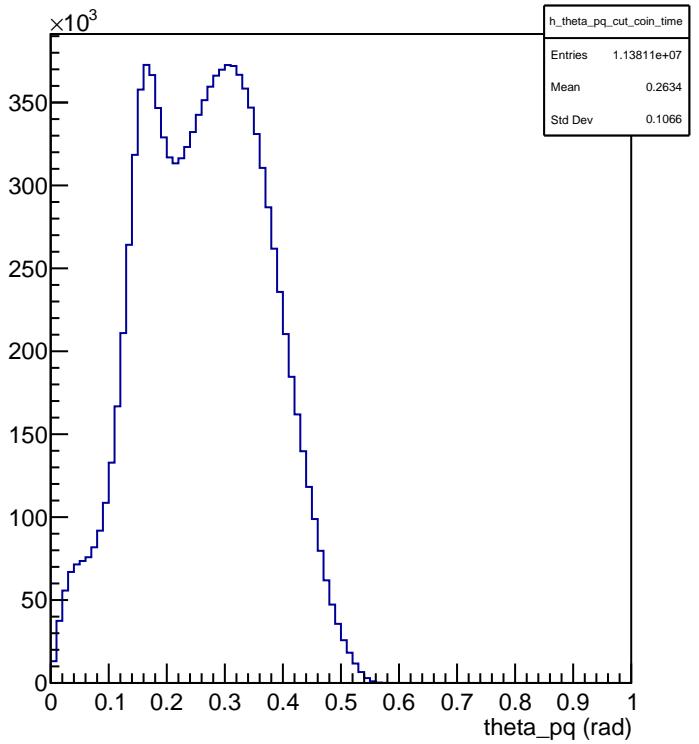
realPpar coin, dx and dy cuts



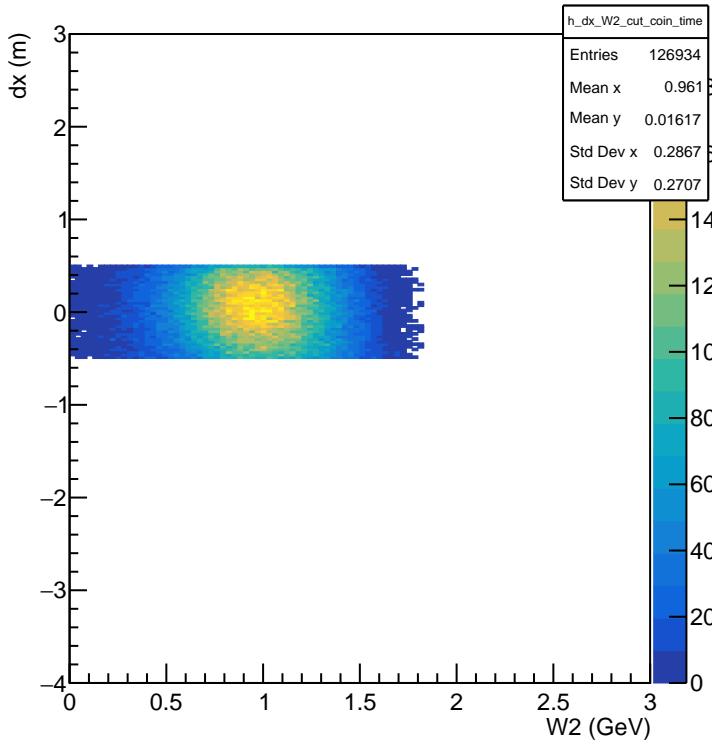
realPpar v W2 dist coin, dx and dy cuts



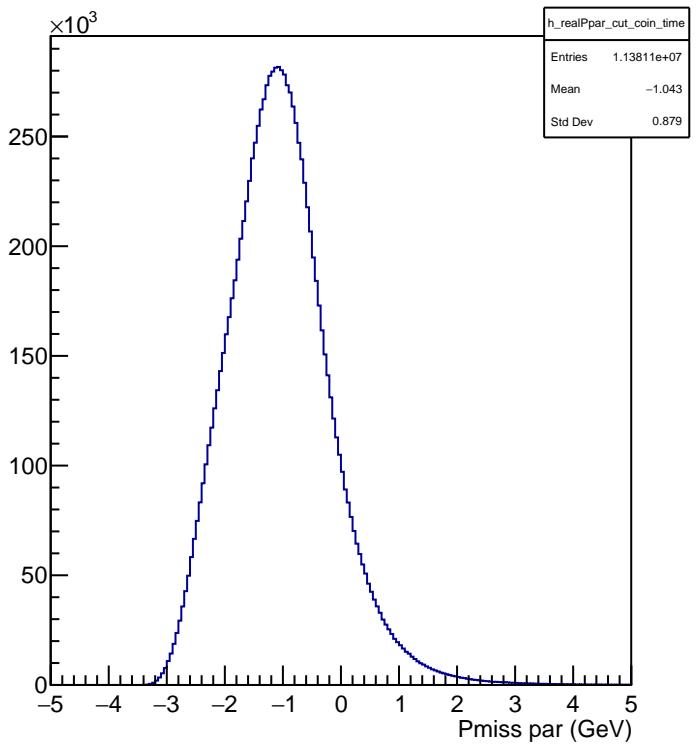
theta_pq only with coin cut



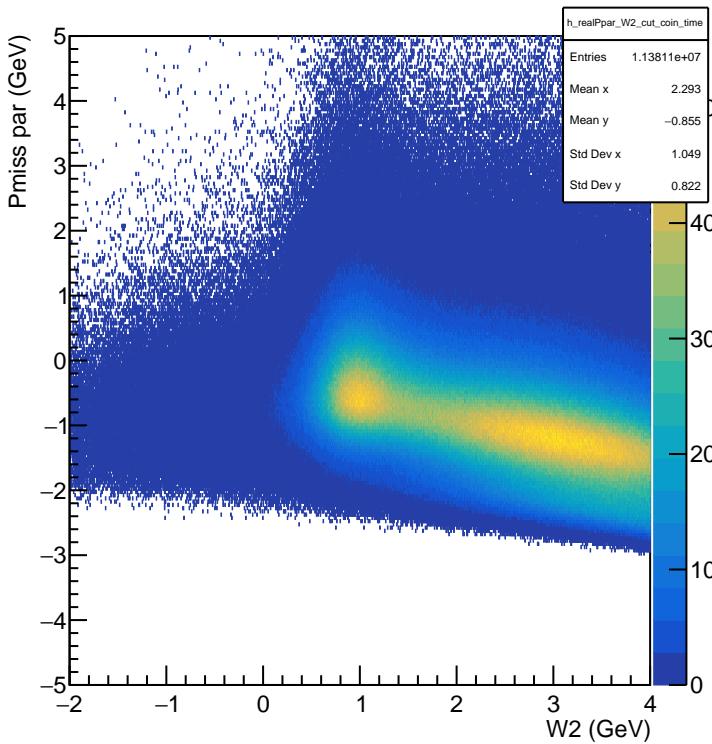
dx v W2 dist with coin time cut



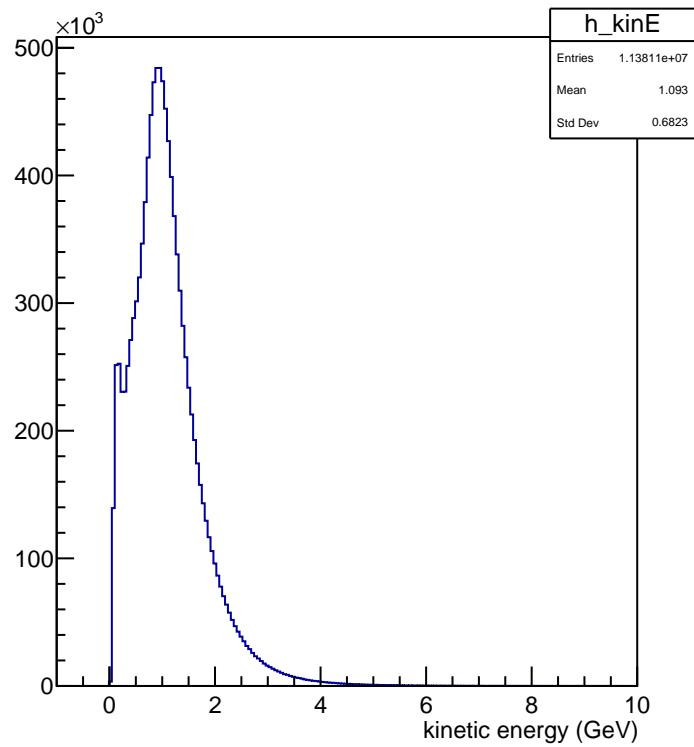
realPpar only with coin cut



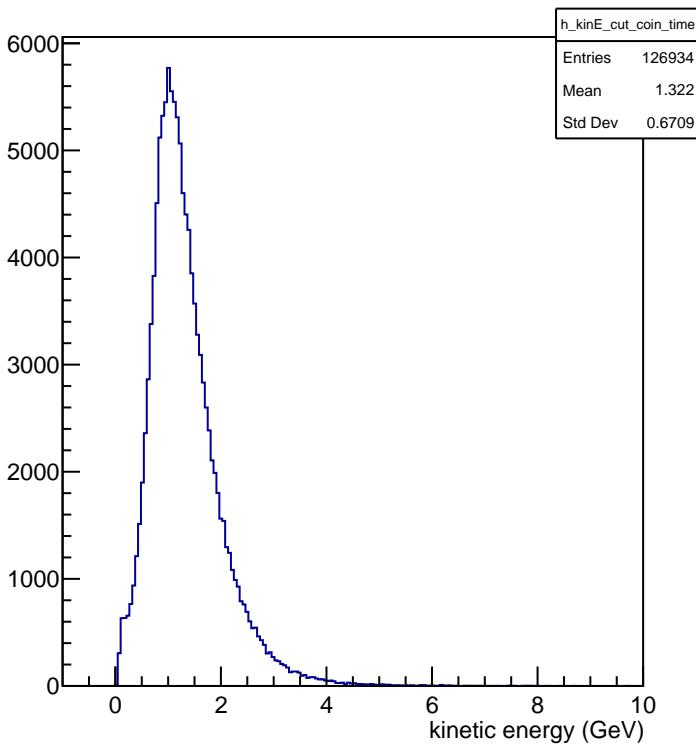
realPpar v W2 dist only with coin cut



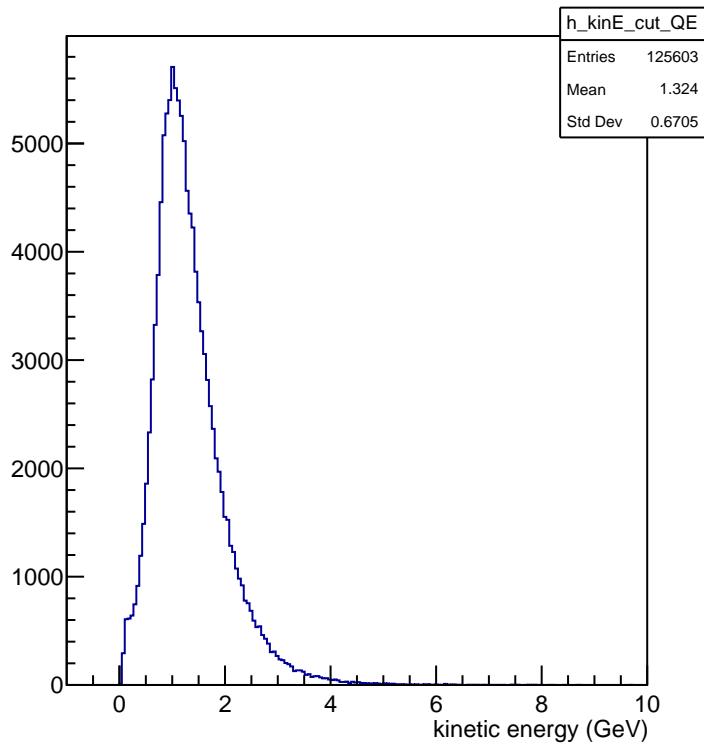
kinetic energy



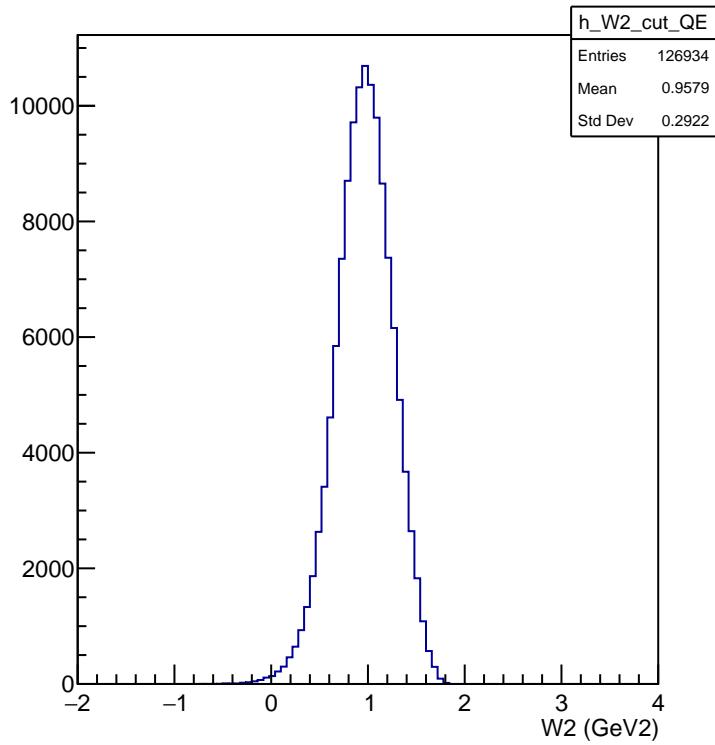
kinetic energy with cointime cut



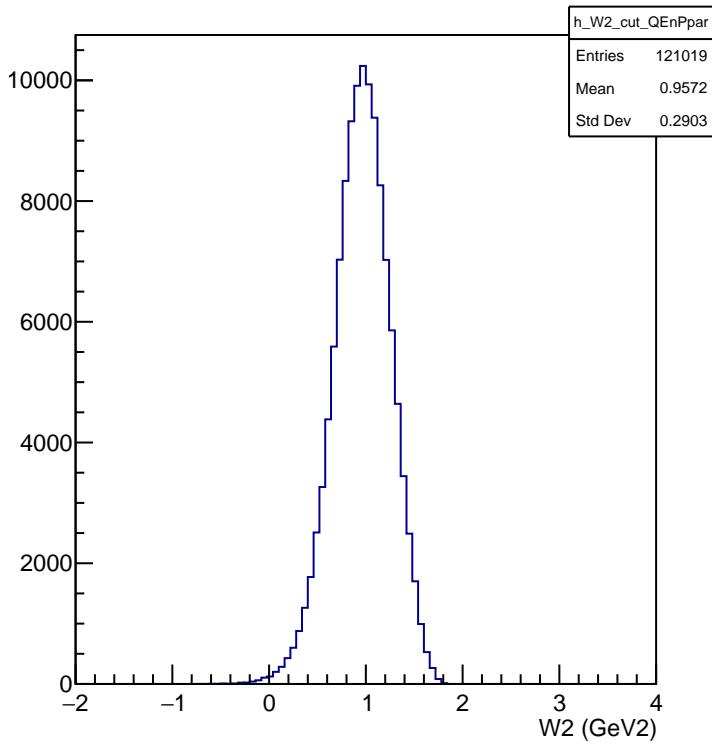
kinetic energy with QE cuts



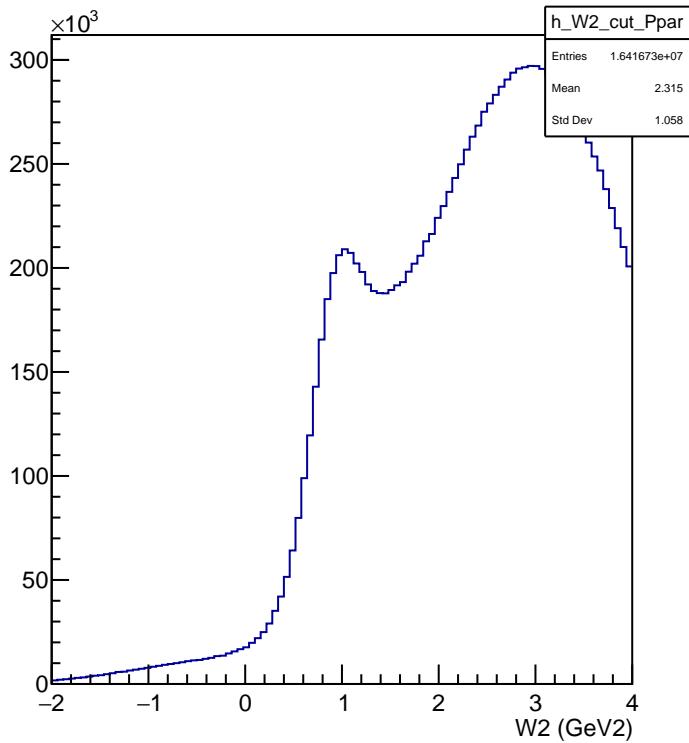
W2 distribution with coin, dx, and dy



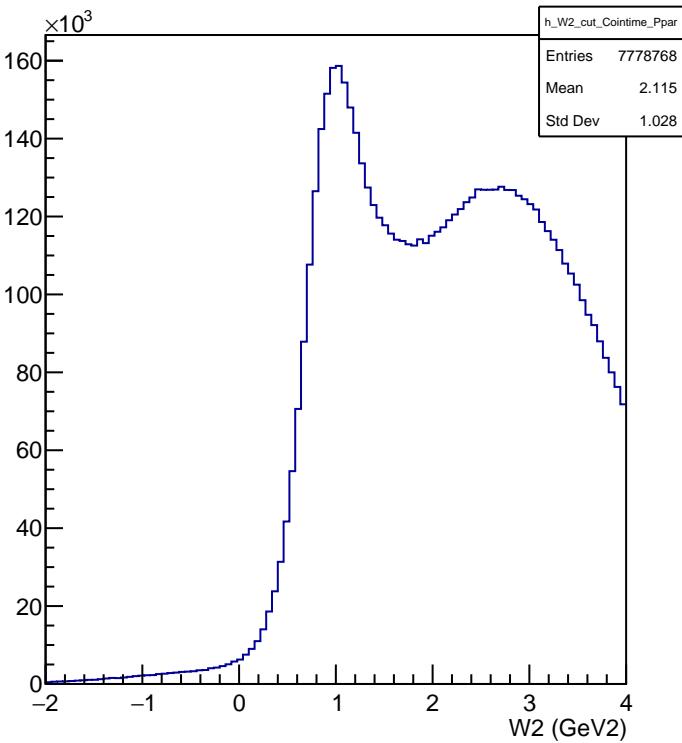
W2 distribution with coin, dx, dy and Ppar cuts



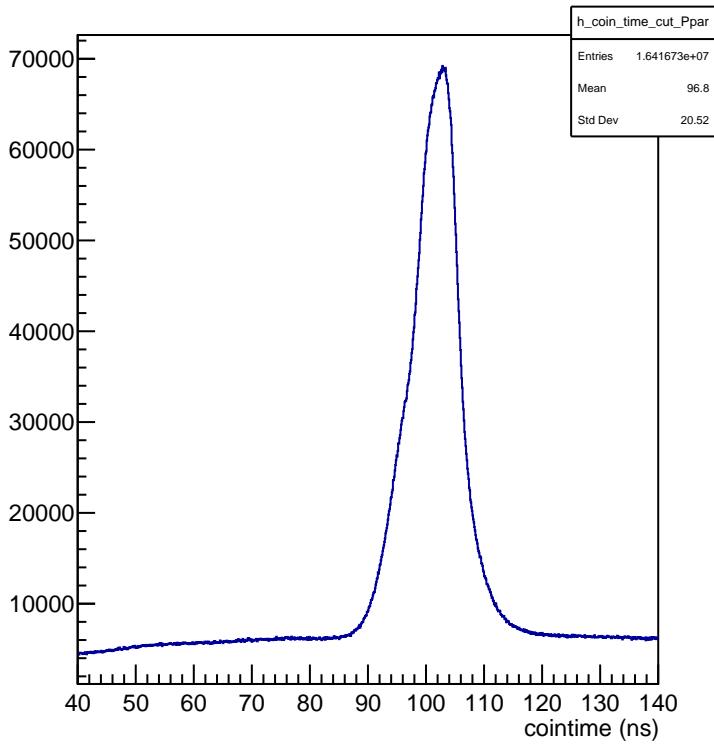
W2 distribution only with Ppar cut



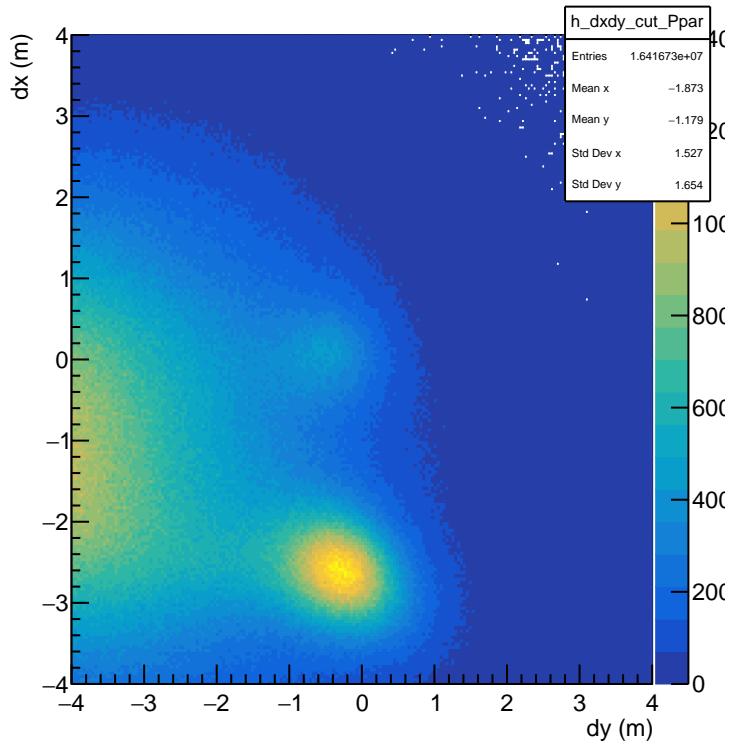
W2 distribution with Cointime and Ppar cut



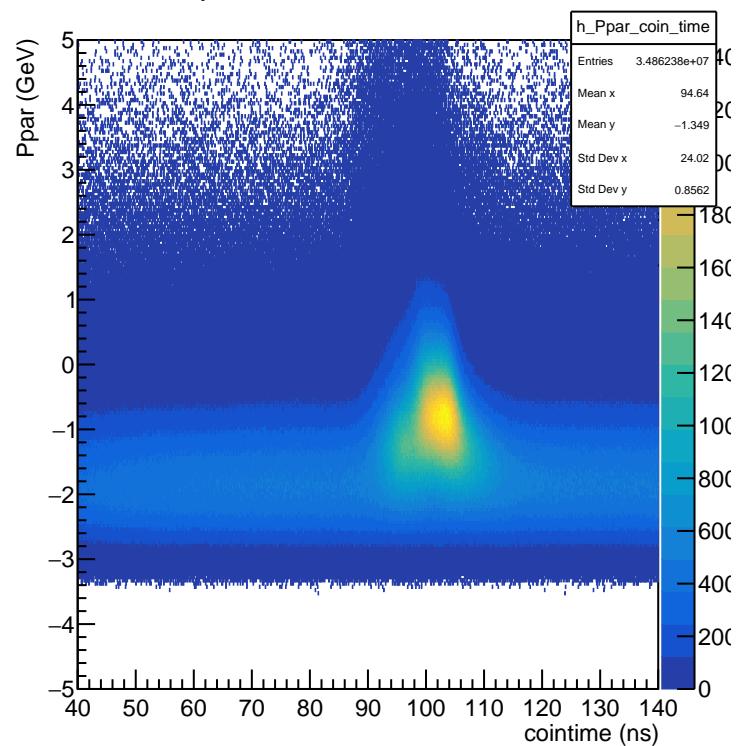
cointime distribution only with Ppar cut



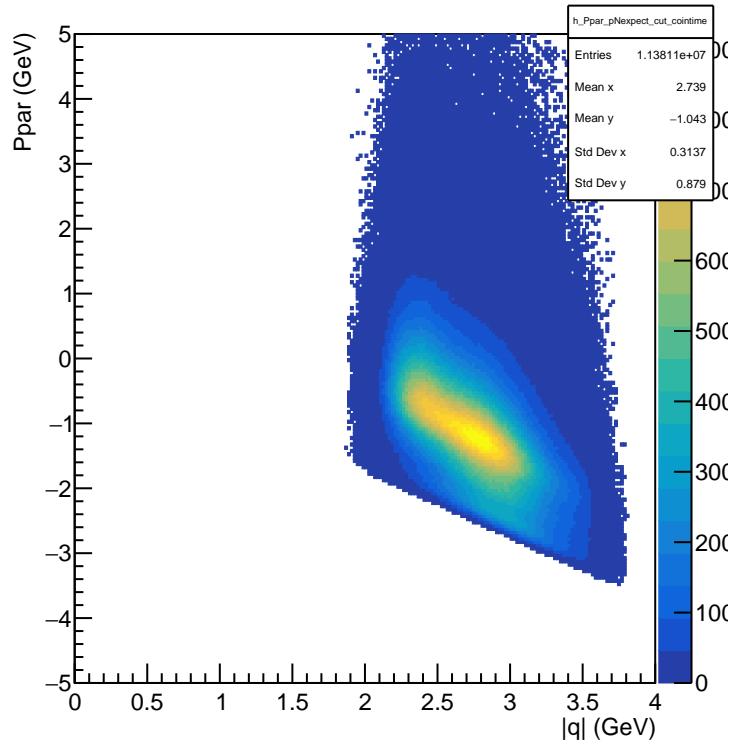
dxdy only with Ppar cut



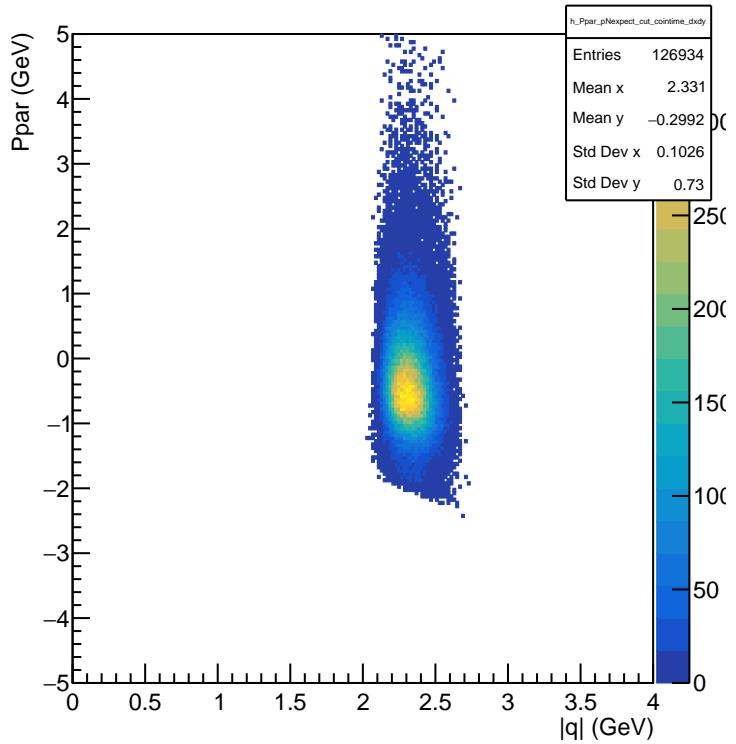
Ppar v cointime distribution



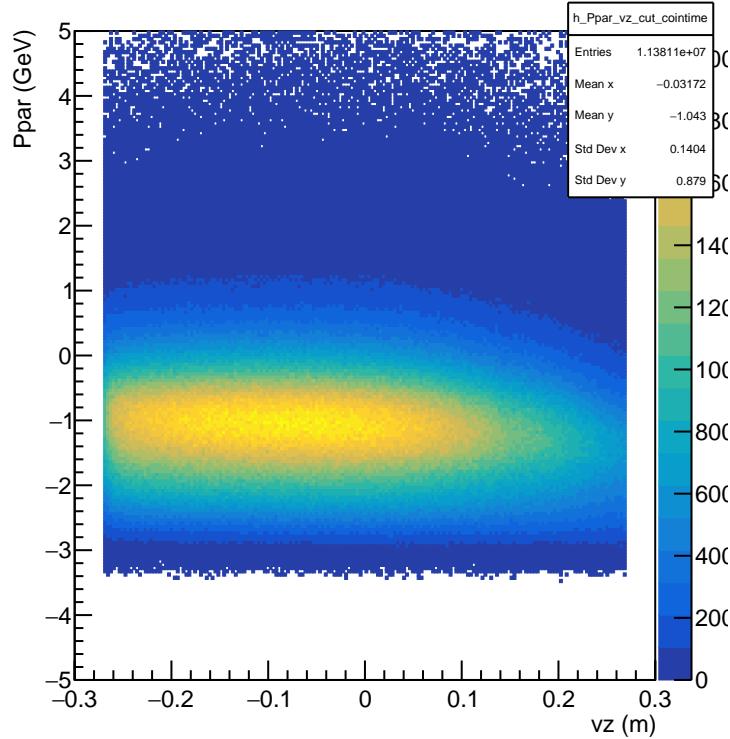
Ppar v $|q|$ only with coin cut



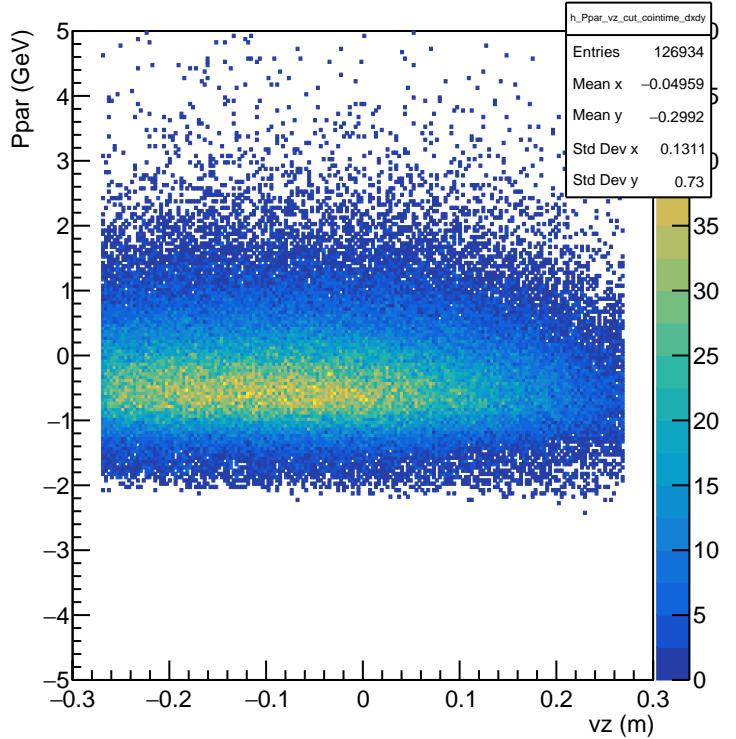
Ppar v $|q|$ with coin, dx and dy cuts



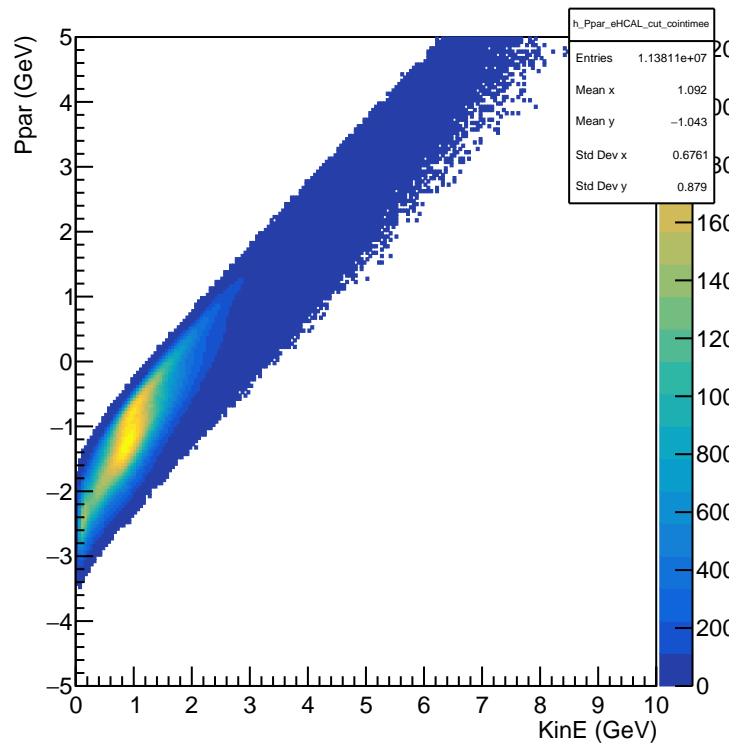
Ppar v v_z only with coin cut



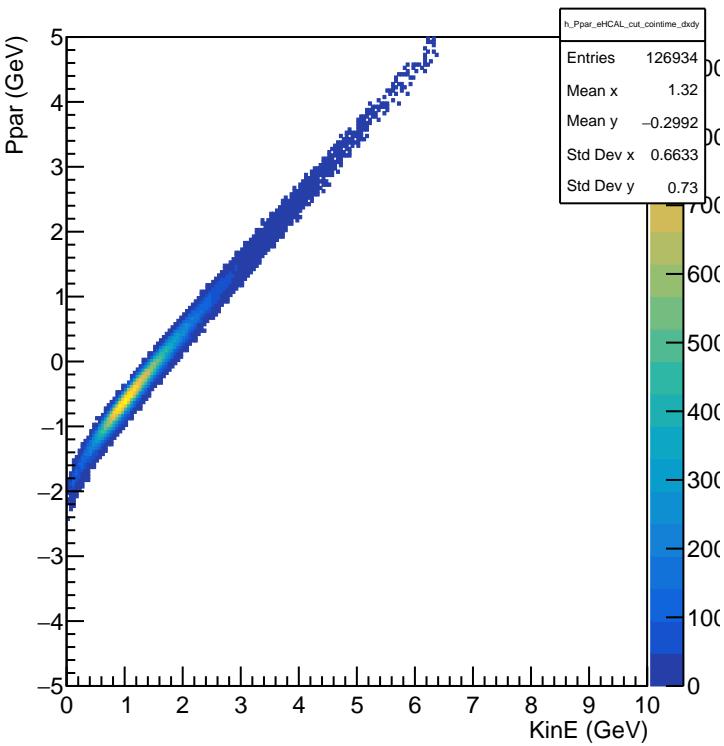
Ppar v v_z with coin, dx and dy cuts



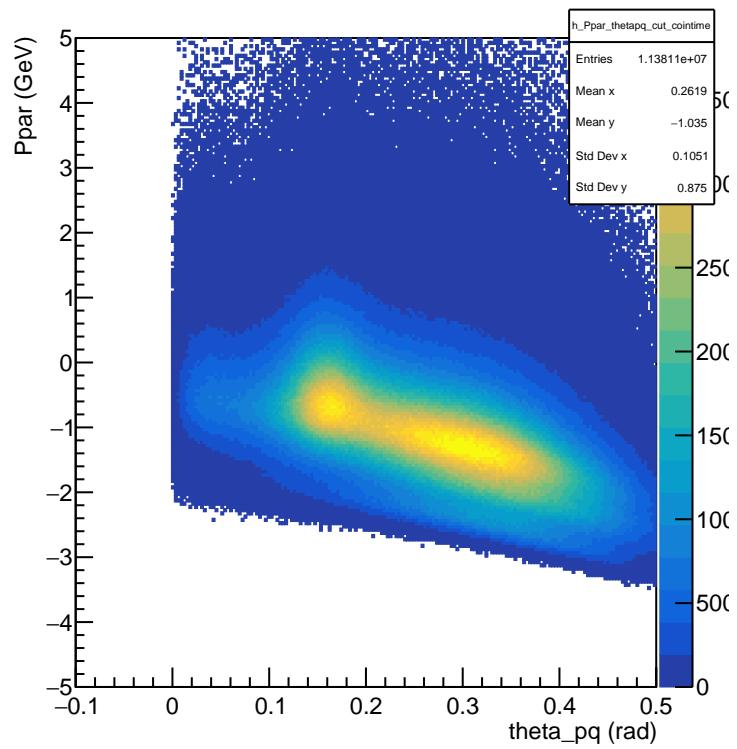
Ppar v eHCAL (KinE) only with coin cut



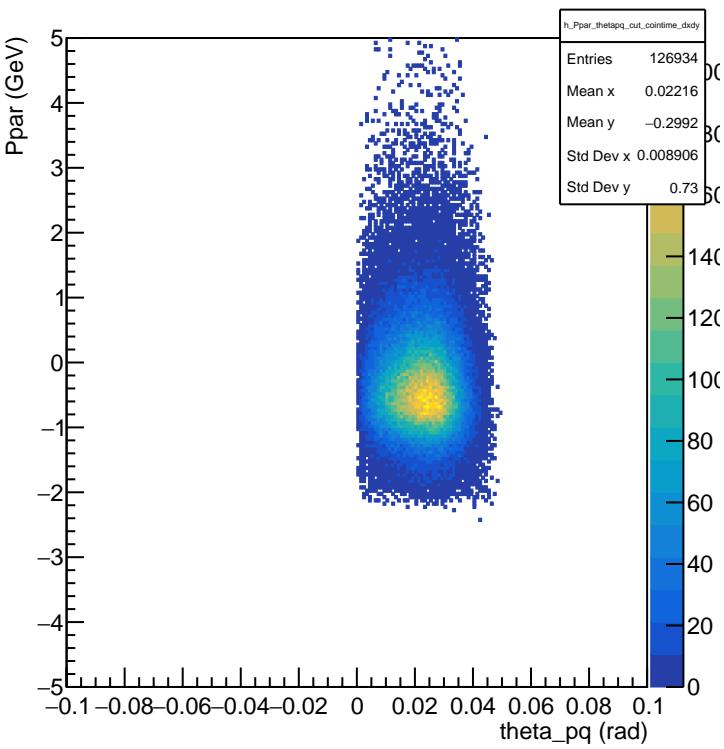
Ppar v eHCAL (KinE) with coin, dx and dy cuts



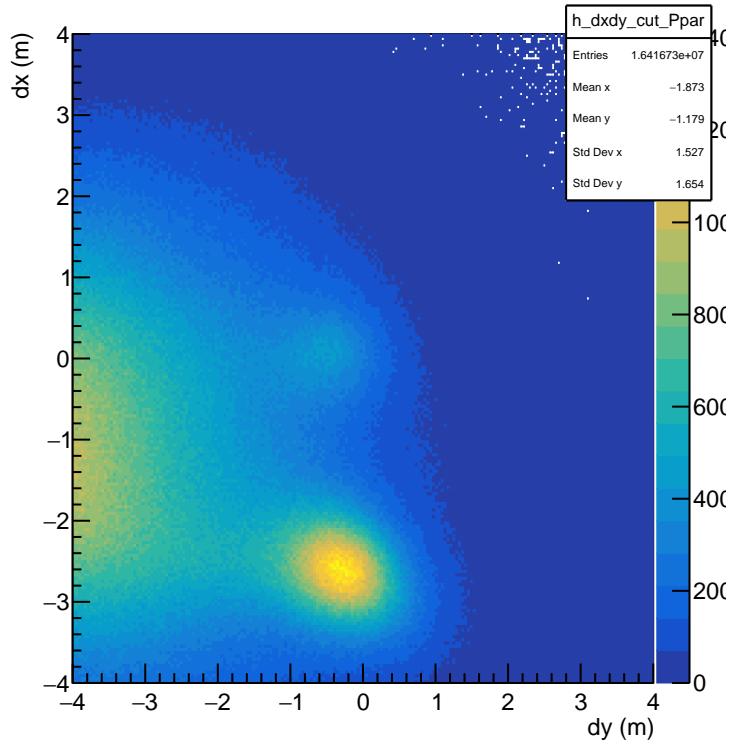
Ppar v theta_pq only with coin cut



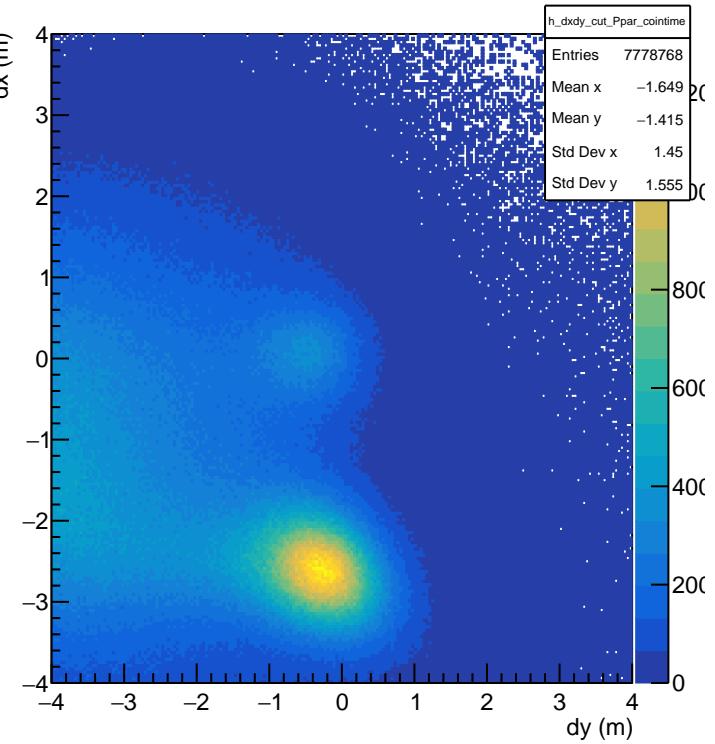
Ppar v theta_pq with coin, dx and dy cut



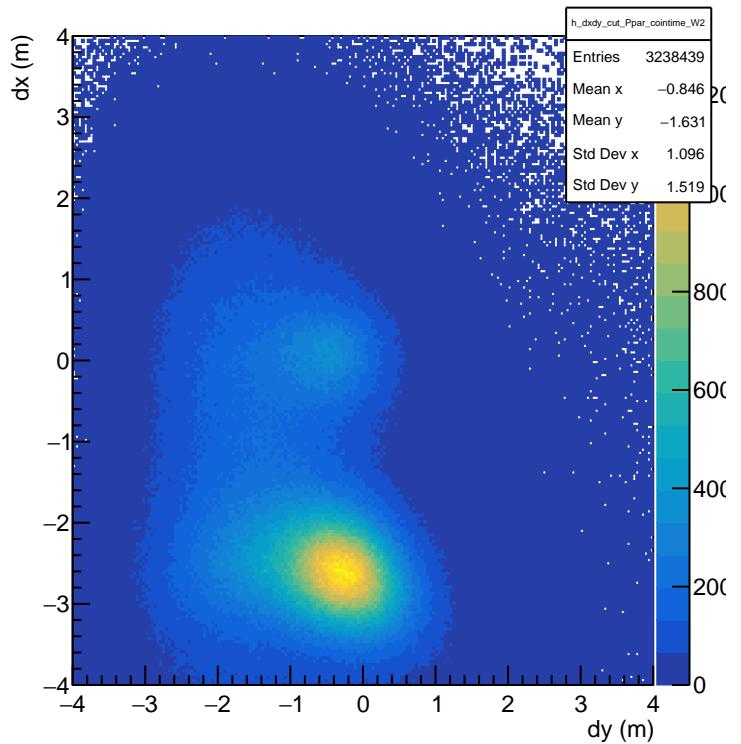
dxdy only with Ppar cut



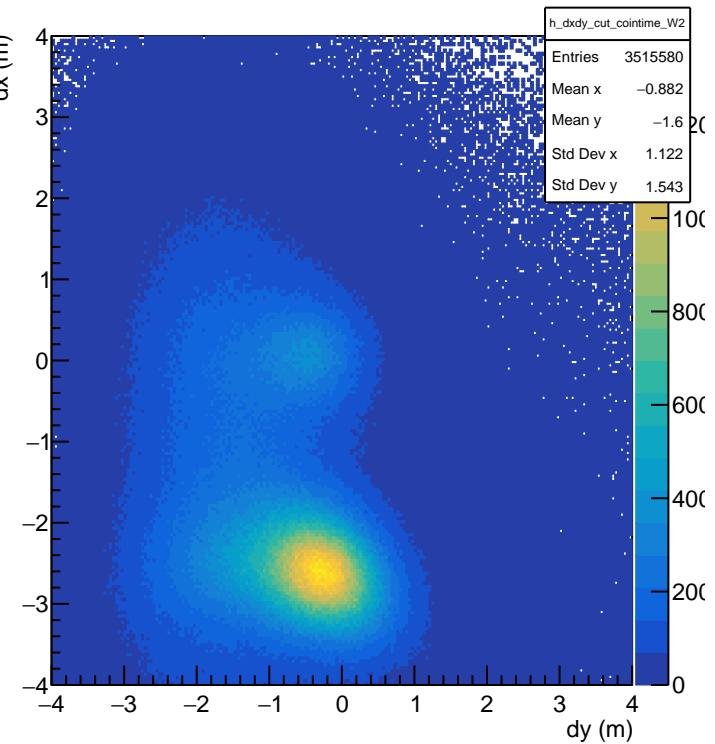
dxdy Ppar and cointime cut



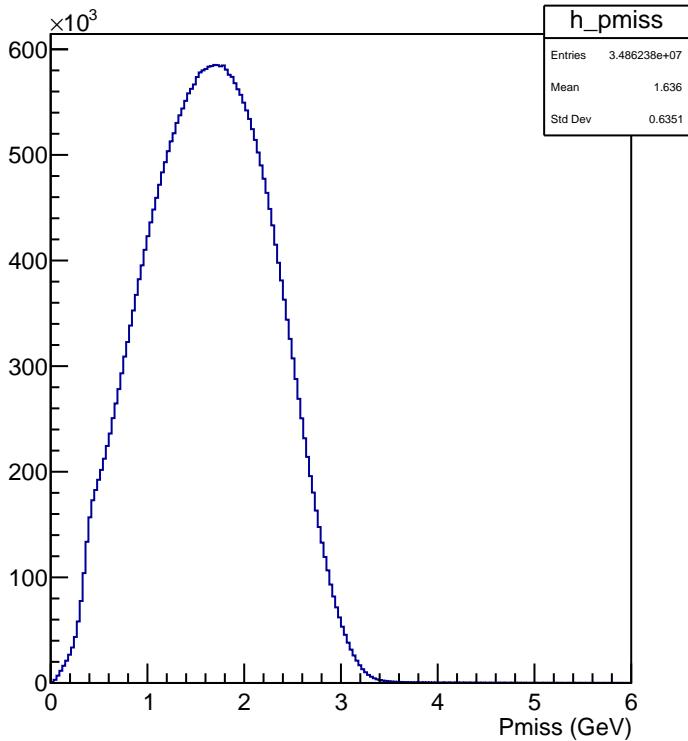
dxdy Ppar, cointime and W2 cut



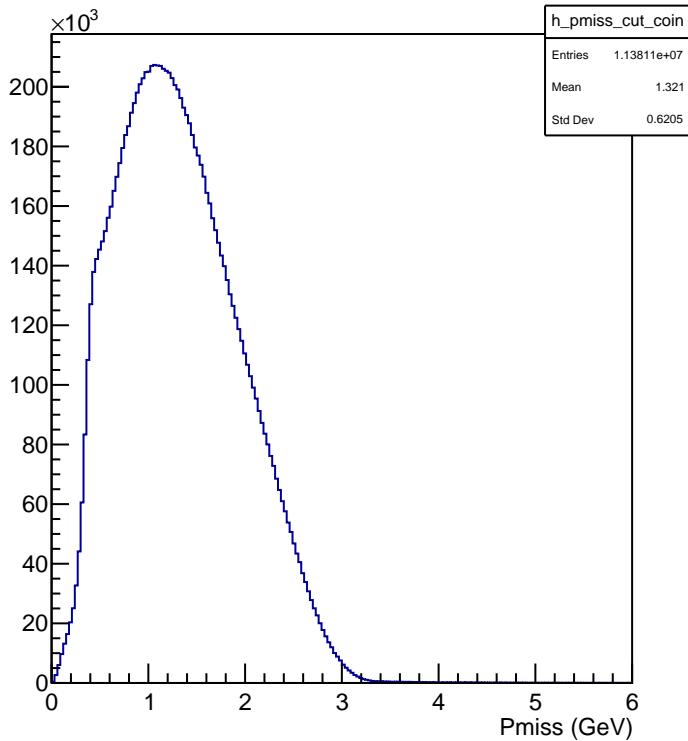
dxdy with cointime and W2 cuts



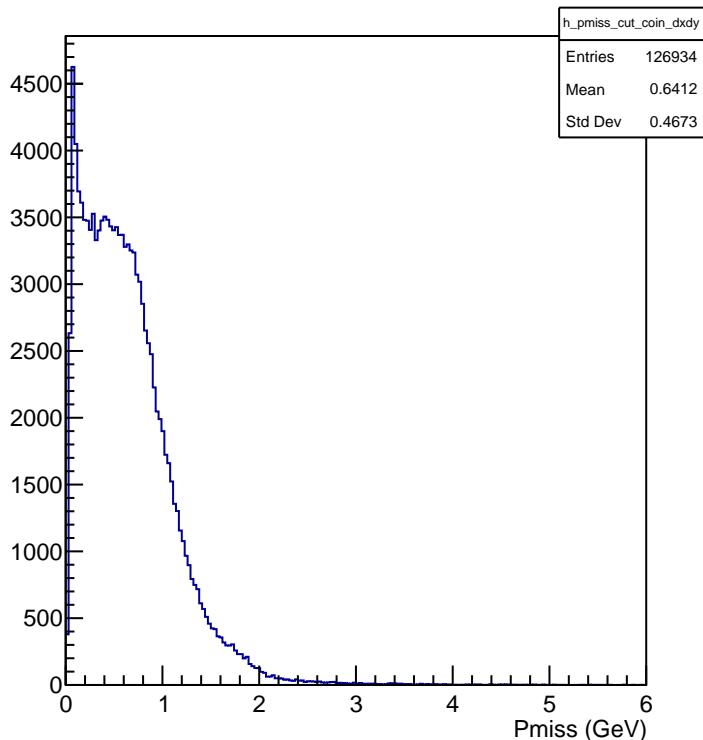
Pmiss distribution



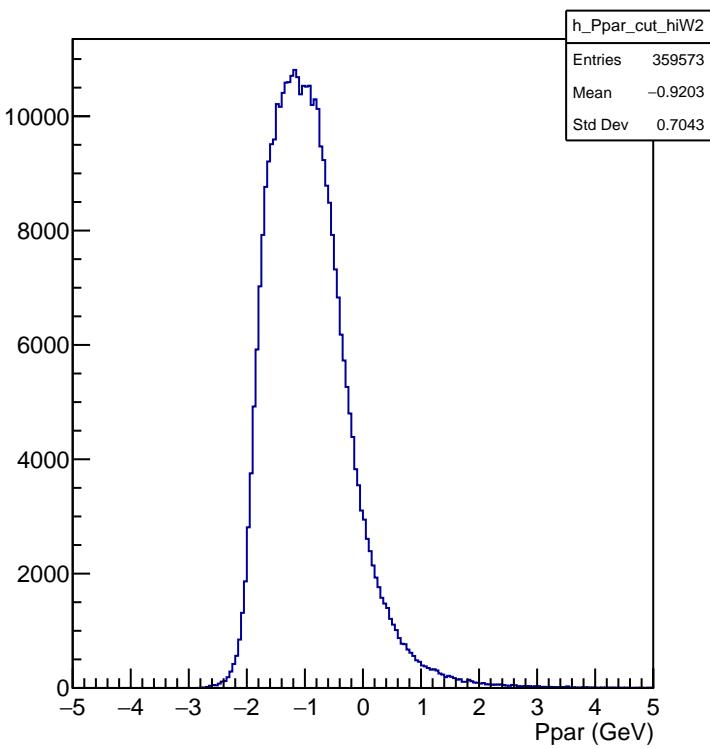
Pmiss distribution only with cointime cut



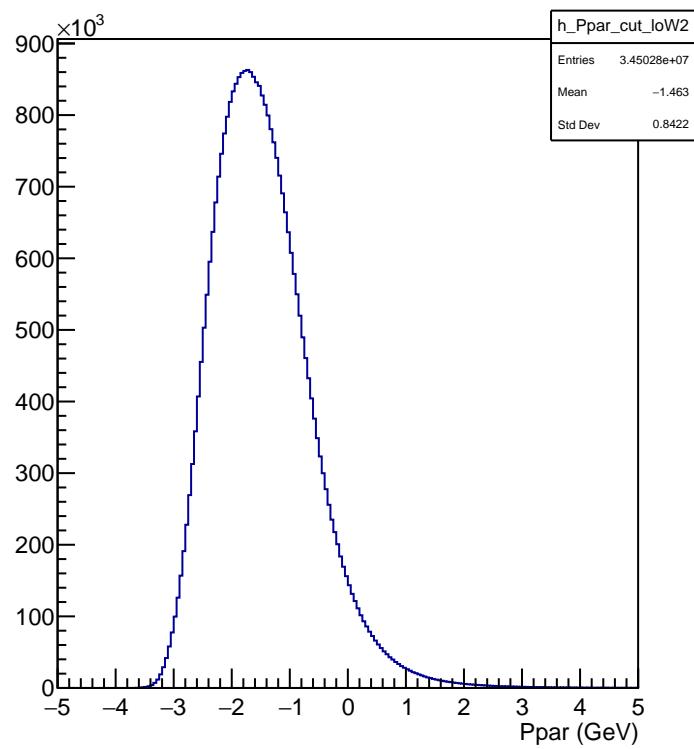
Pmiss distribution with cointime, dx and dy cuts



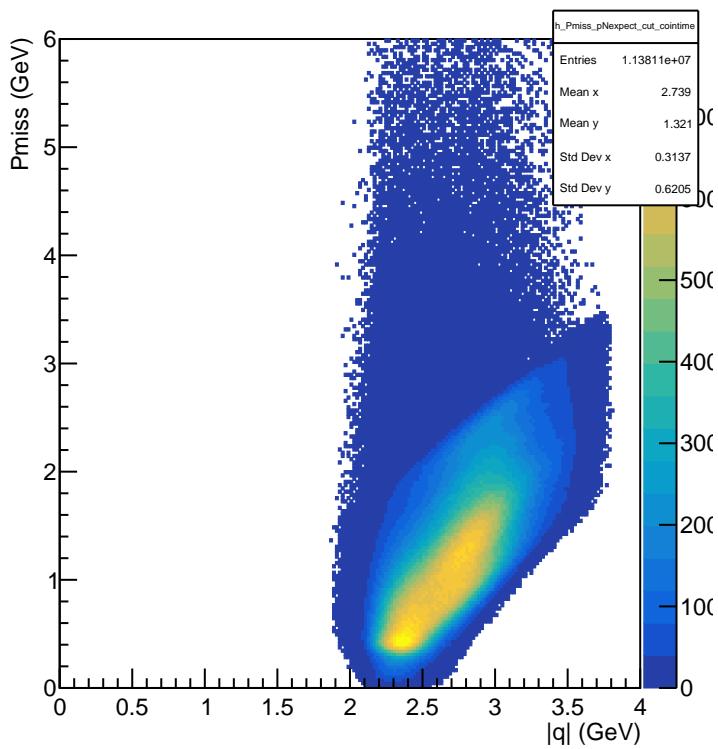
Ppar distribution for W2<0



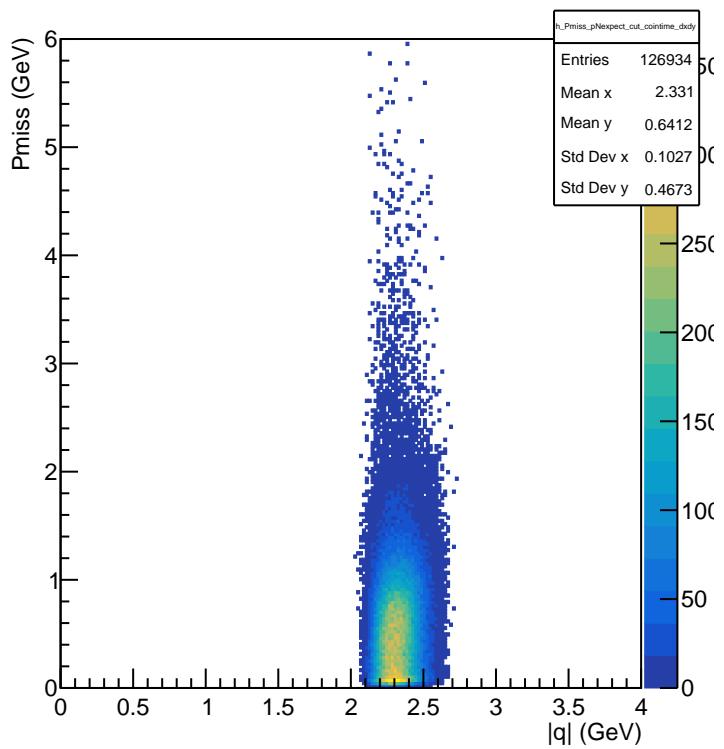
Ppar distribution for W2>=0



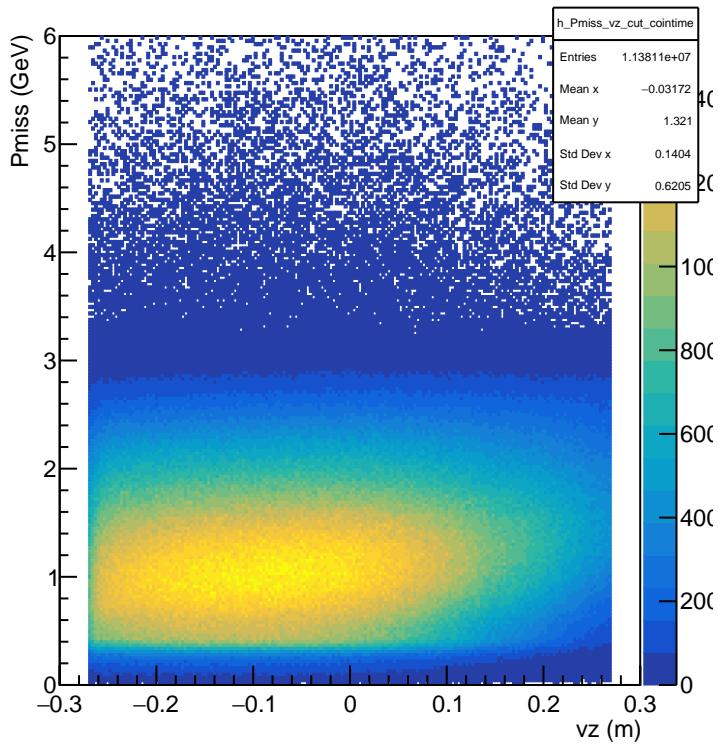
Pmiss v $|q|$ only with coin cut



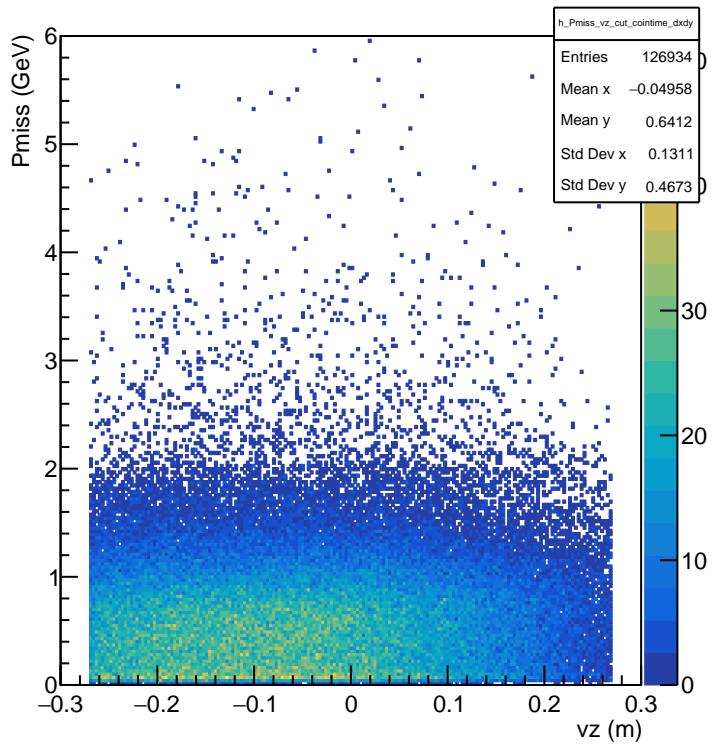
Pmiss v $|q|$ with coin, dx and dy cuts



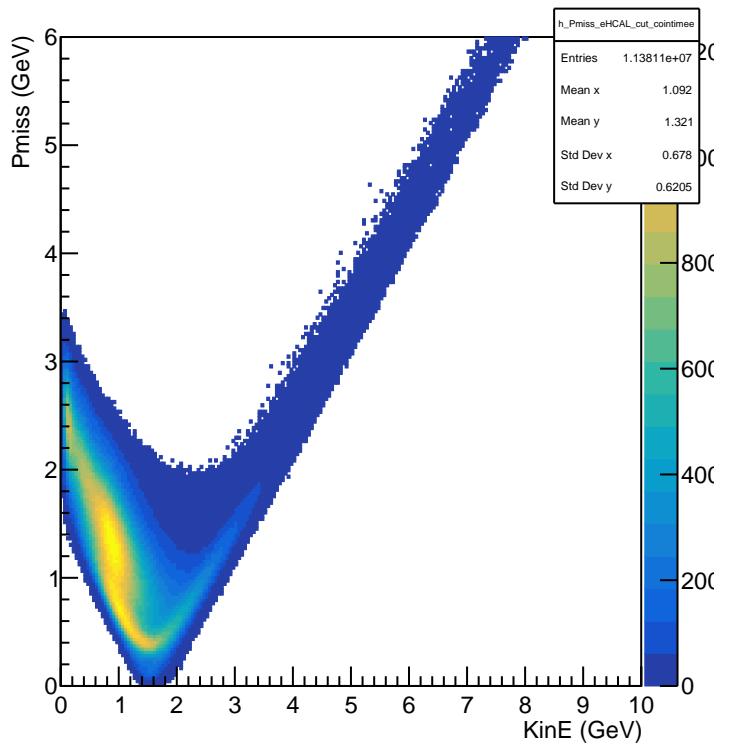
Pmiss v v_z only with coin cut



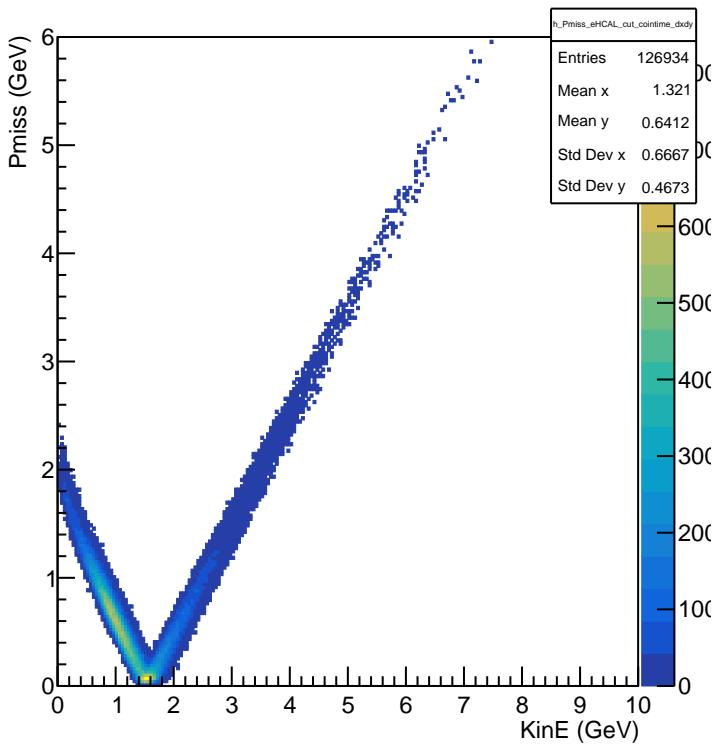
Pmiss v v_z with coin, dx and dy cuts



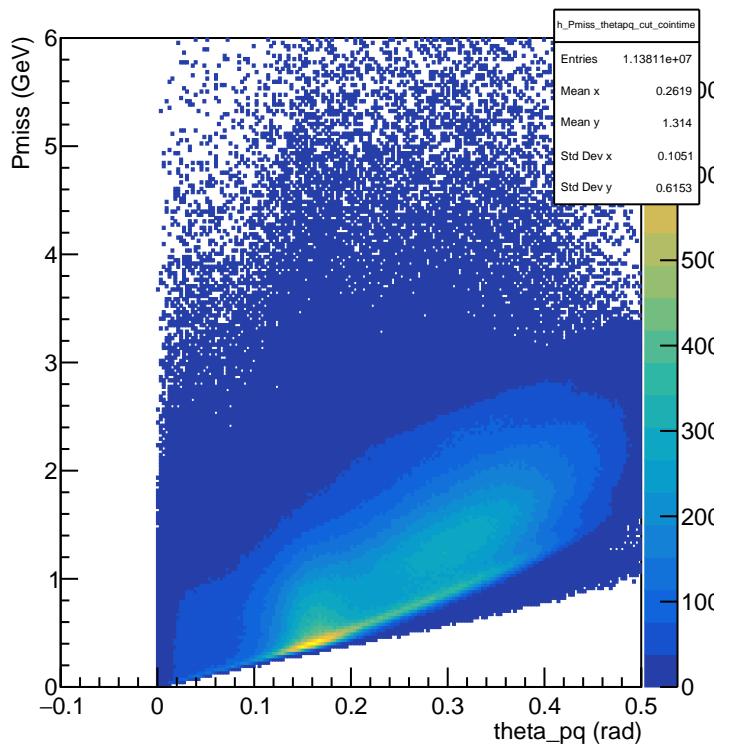
Pmiss v eHCAL (KinE) only with coin cut



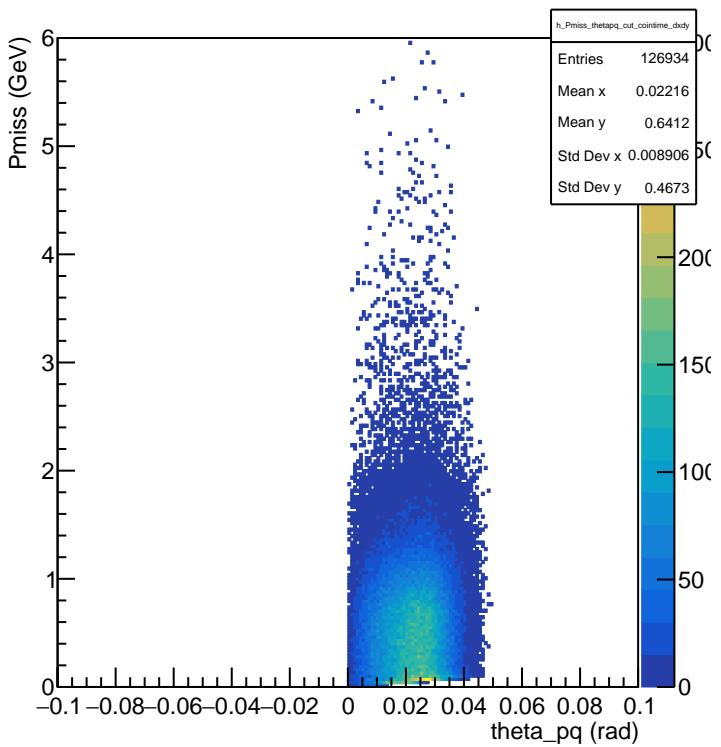
Pmiss v eHCAL (KinE) with coin, dx and dy cuts



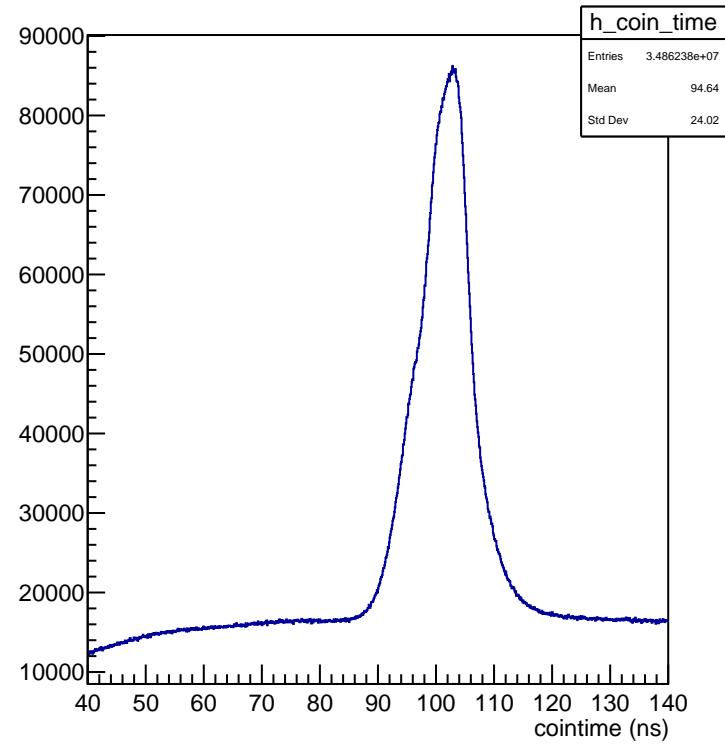
Pmiss v theta_pq only with coin cut



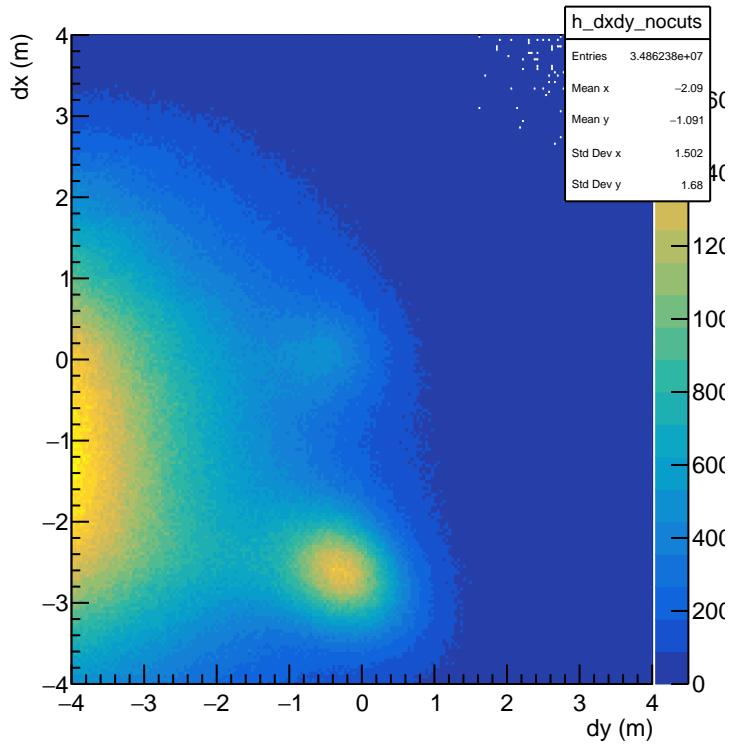
Pmiss v theta_pq with coin, dx and dy cut



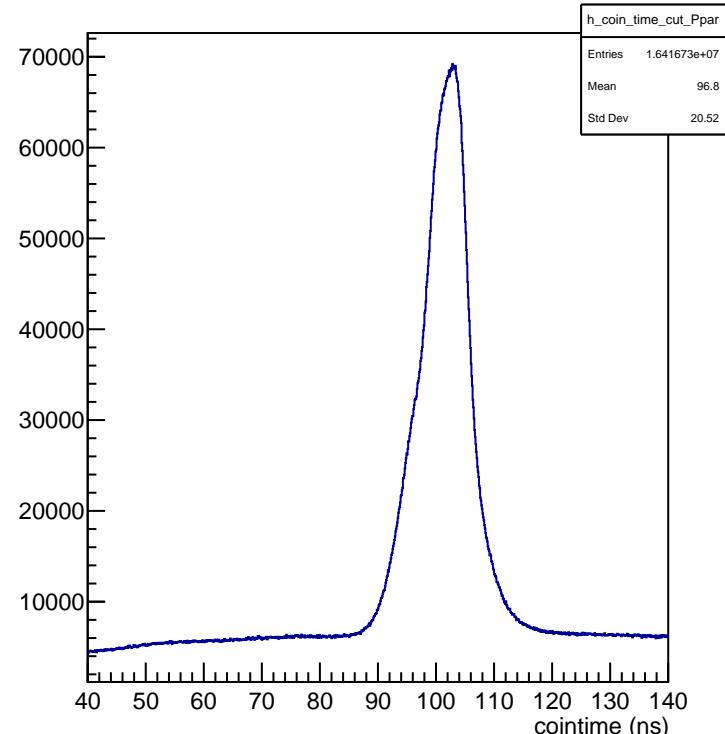
cointime (no cuts)



dxdy (no cuts)



cointime distribution only with Ppar cut



dxdy only with Ppar cut

