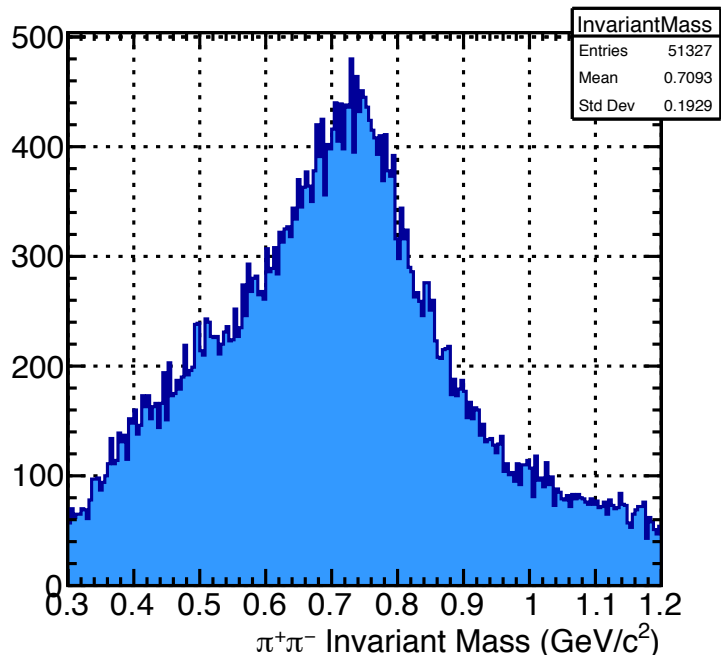
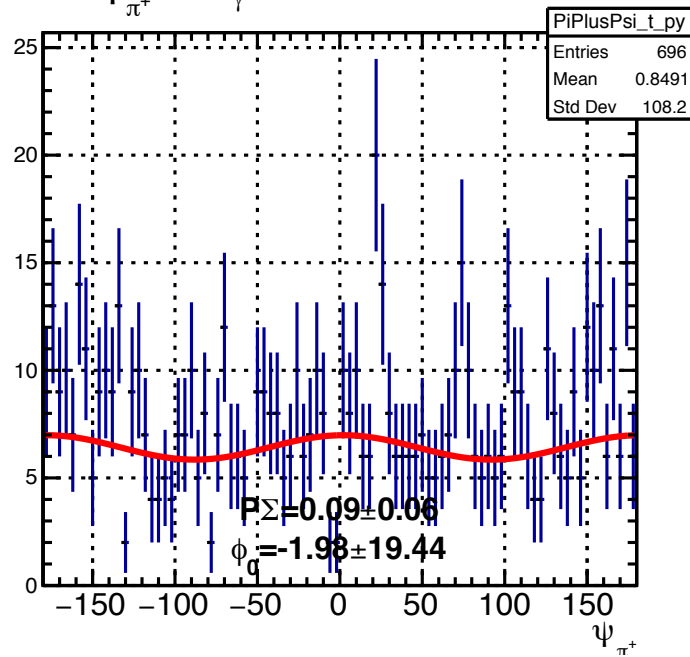


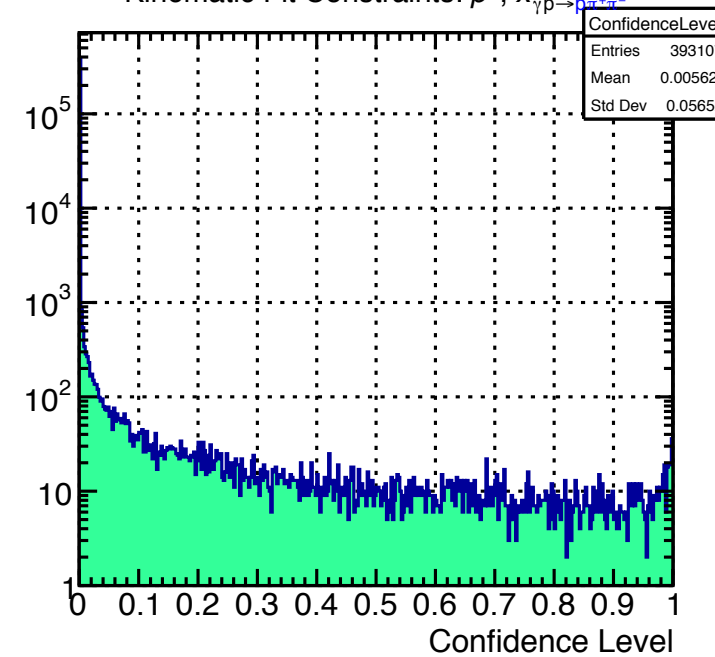
With MM Cut



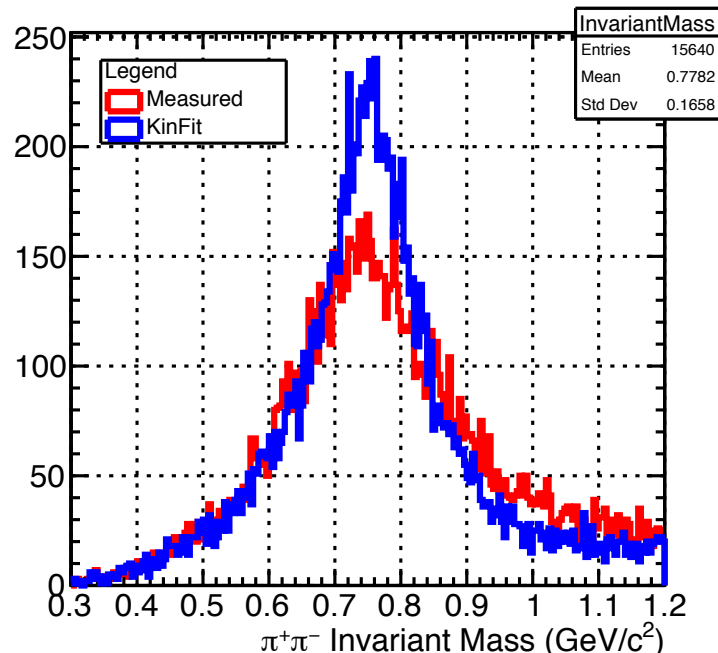
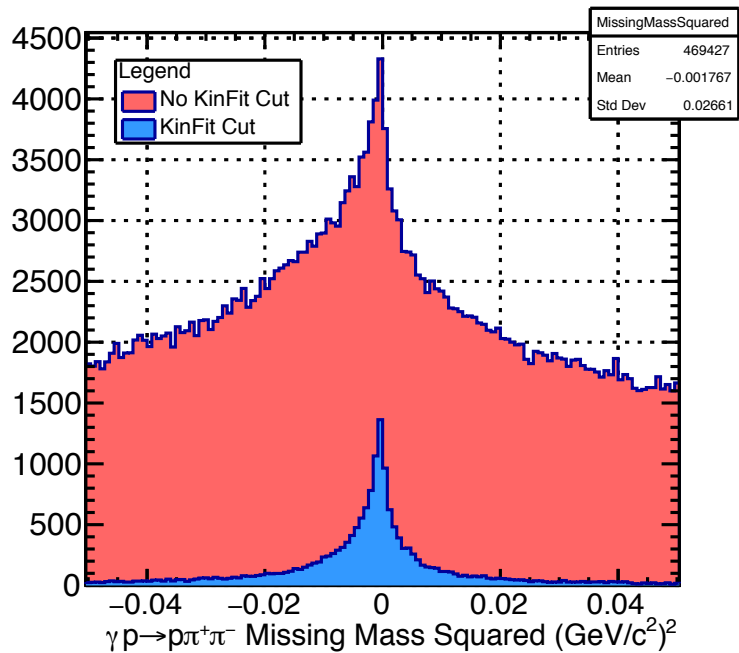
$\psi_{\pi^+}$  vs  $E_{\gamma}$ : Proton  $dE/dx > 2.2$



Kinematic Fit Constraints:  $p^4, x_{yp}^3 \rightarrow p^+\pi^-$

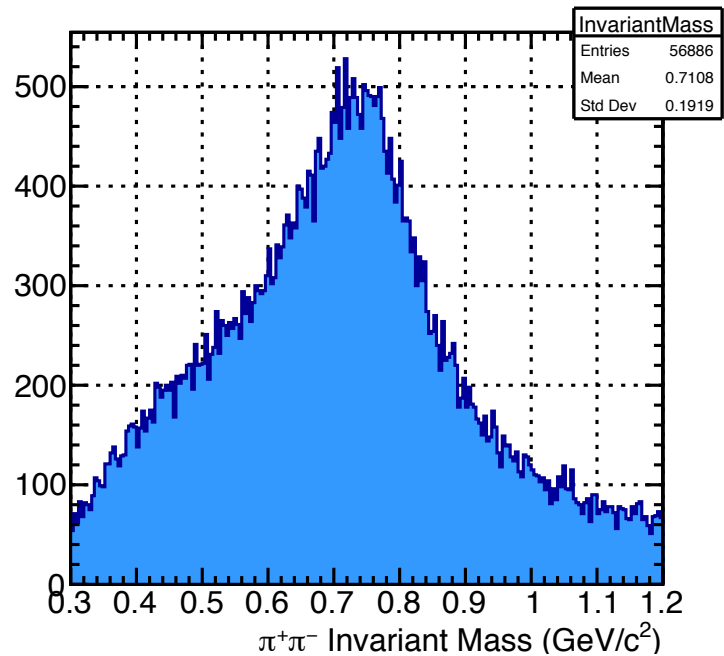
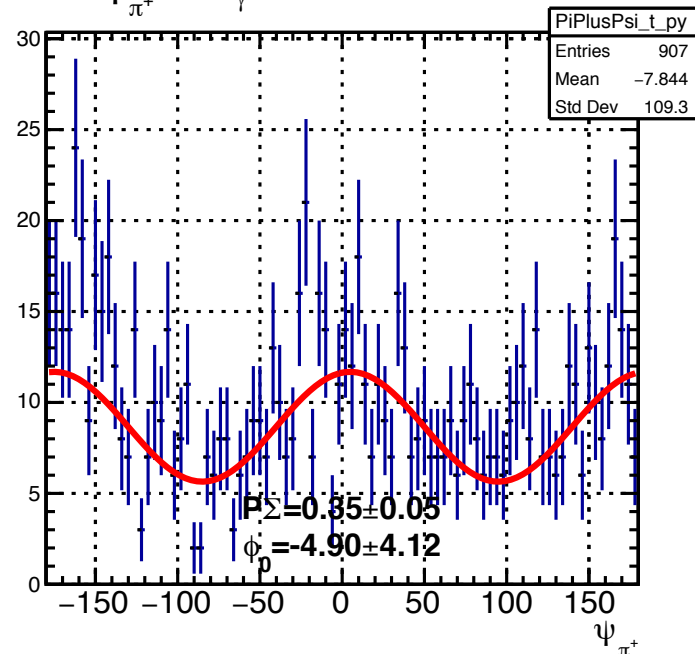
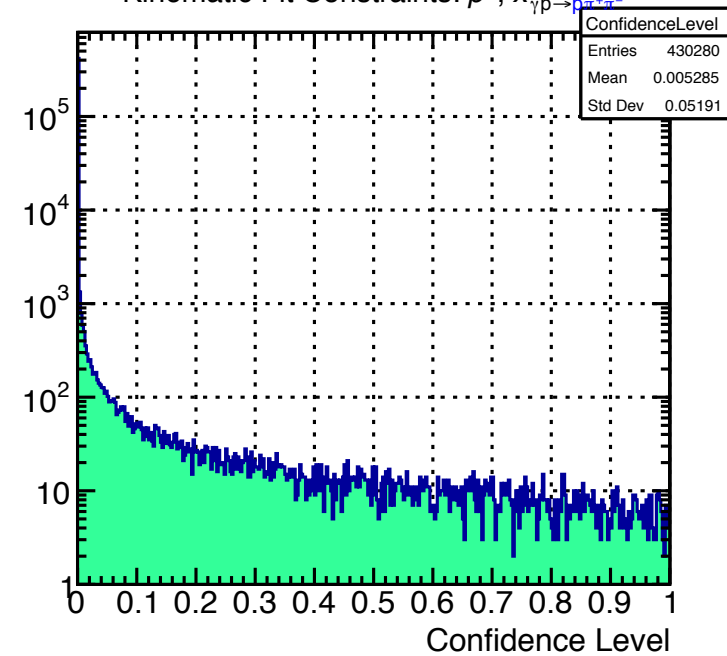


Post KinFit Cut

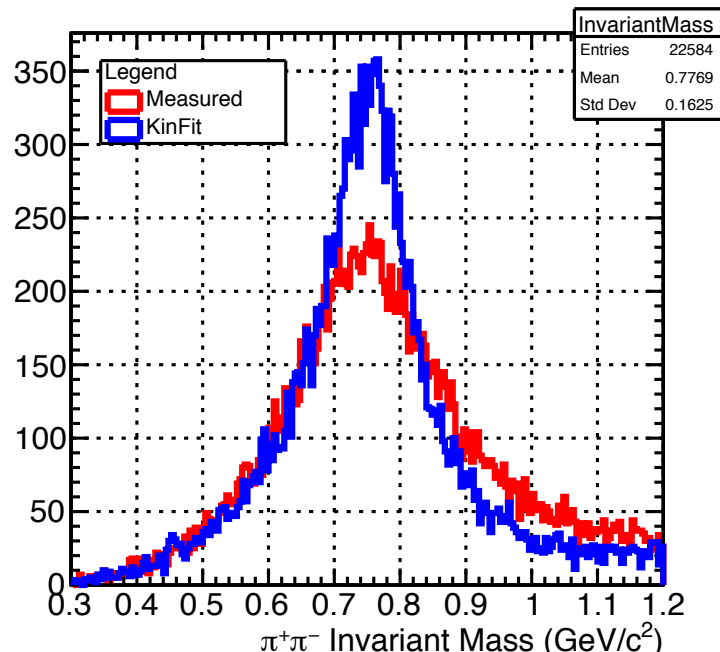
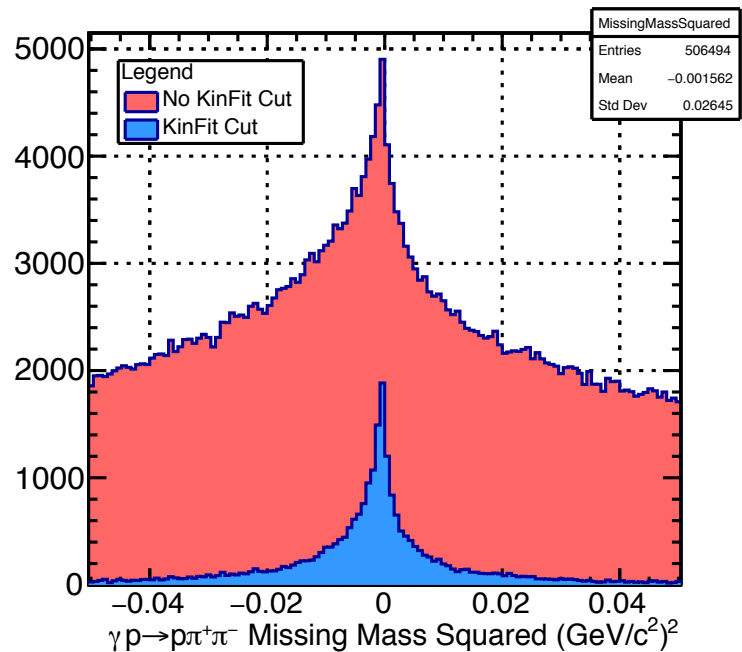


With FDC times  
 KalmanSIMD

With MM Cut

 $\psi_{\pi^+}$  vs  $E_{\gamma}$ : Proton  $dE/dx > 2.2$ Kinematic Fit Constraints:  $p^4, x_{\gamma p \rightarrow p\pi^+\pi^-}^3$ 

Post KinFit Cut



Without FDC times  
KalmanSIMD\_ALT1