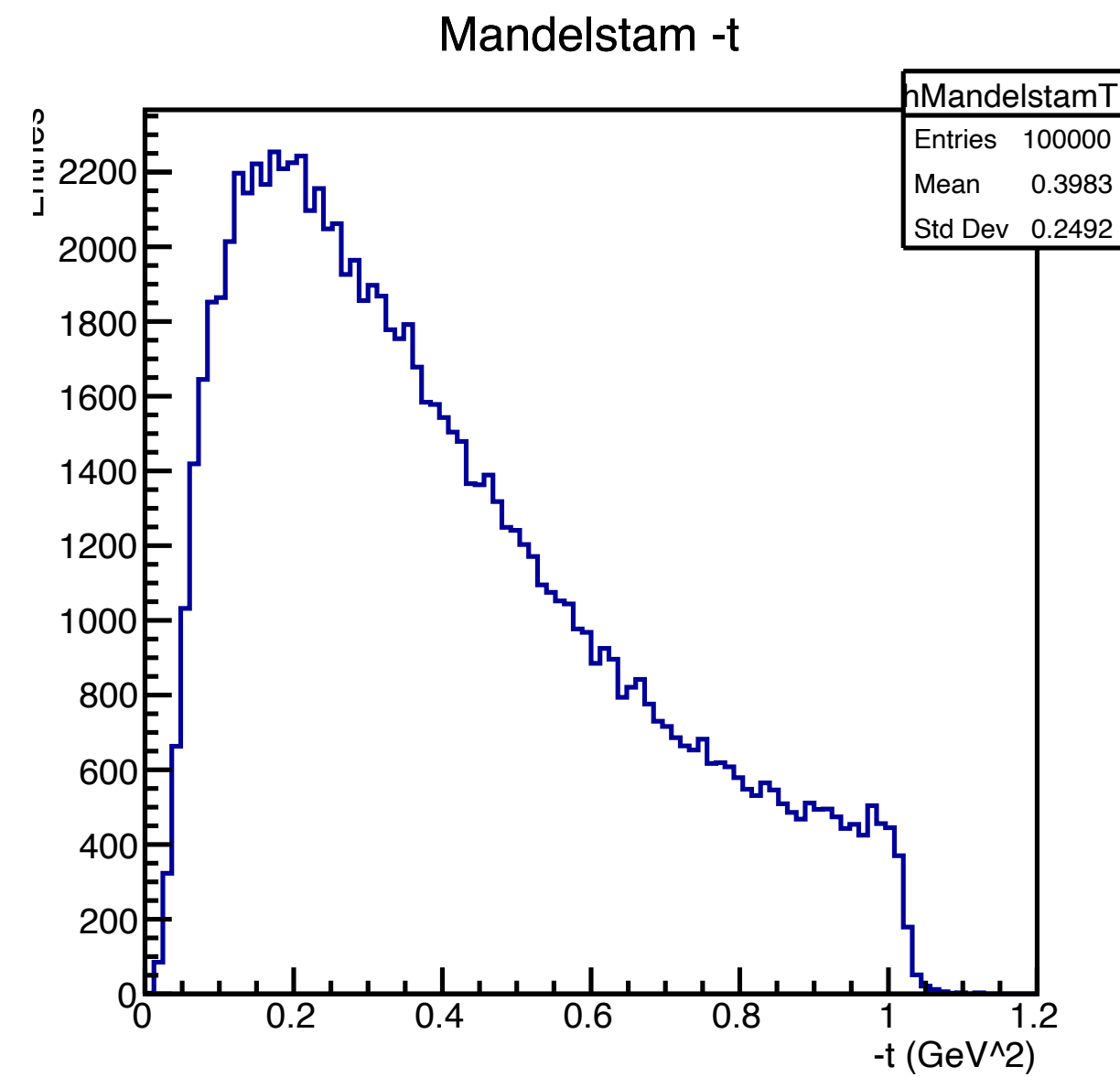
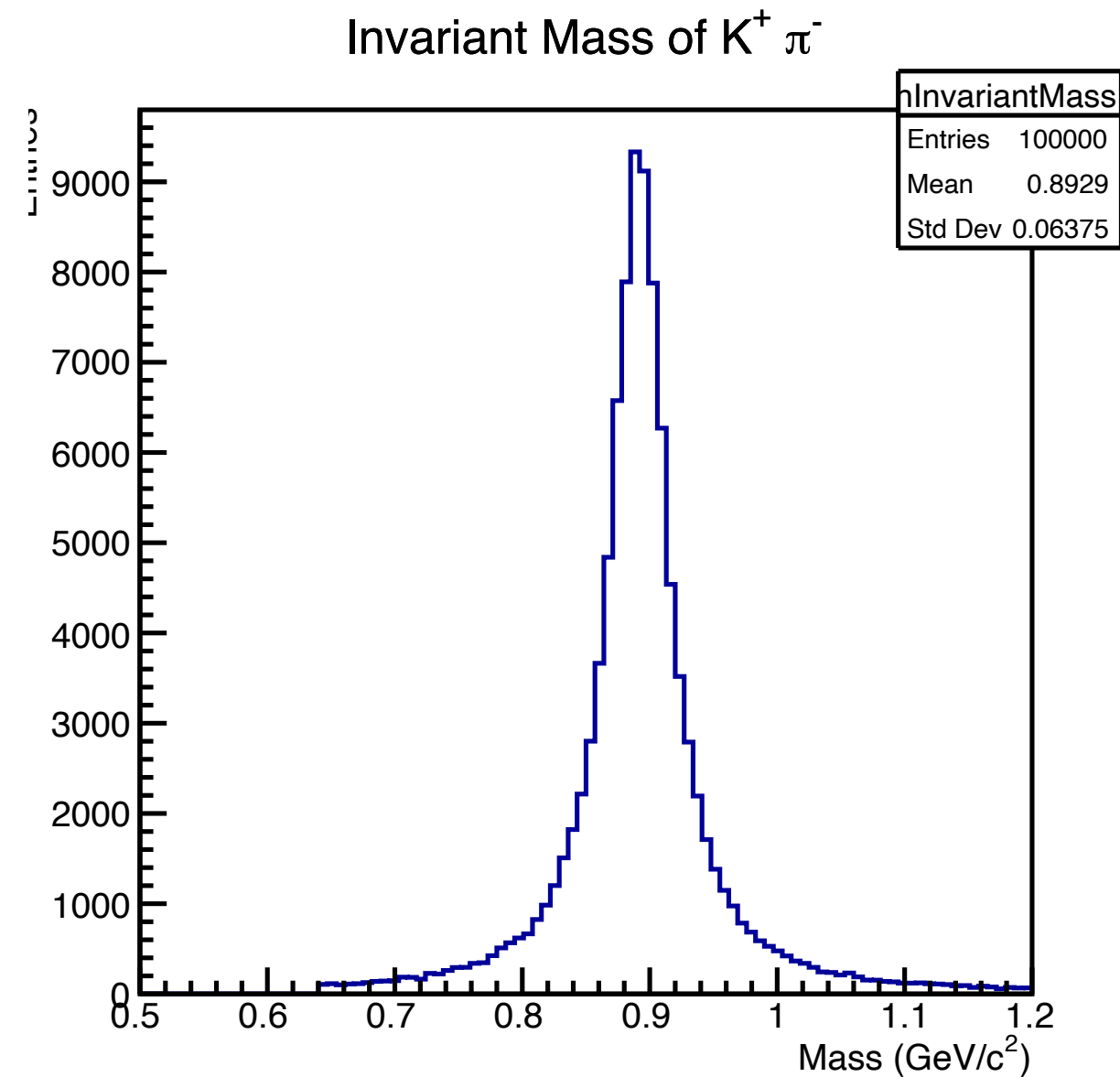
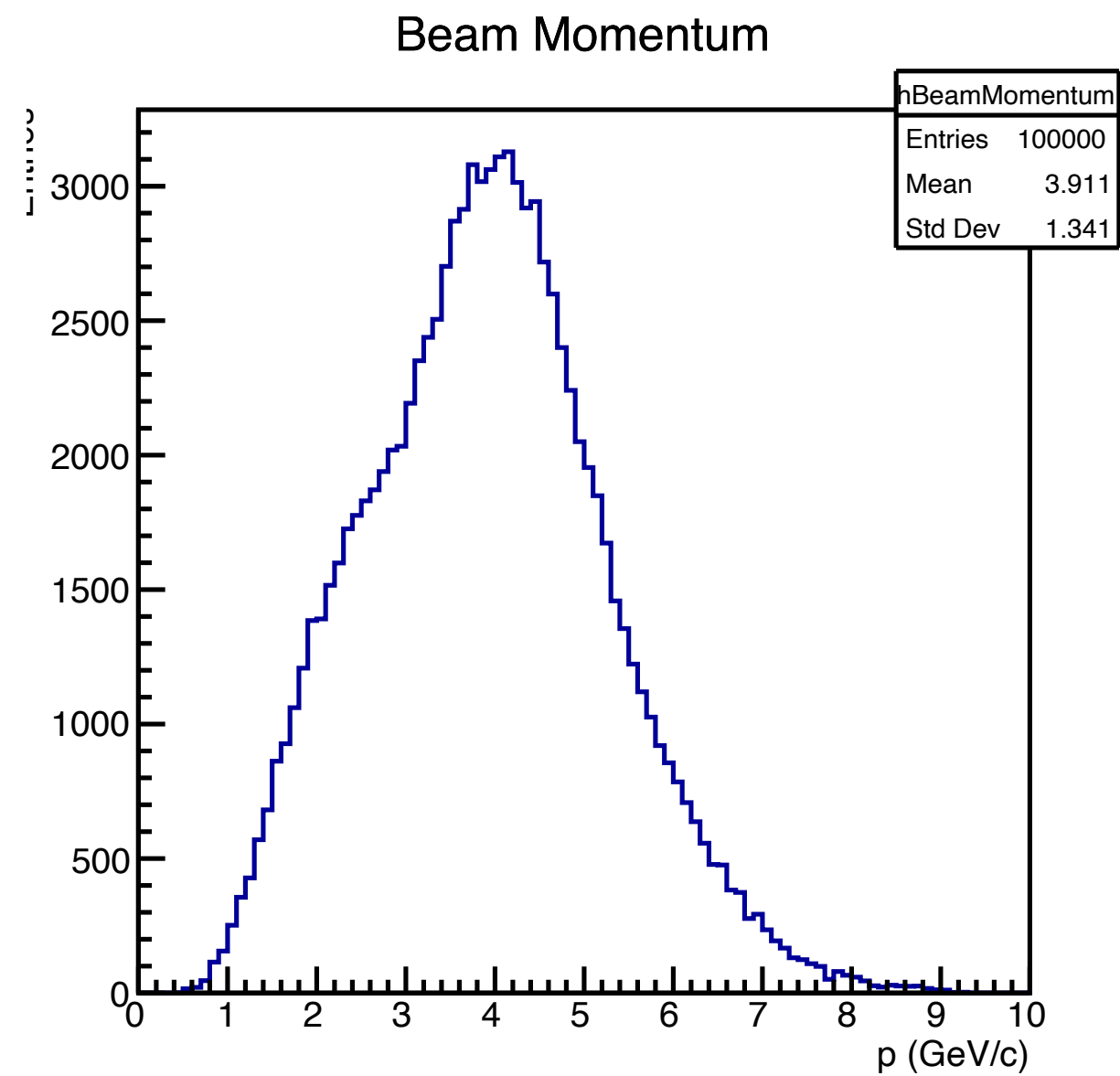
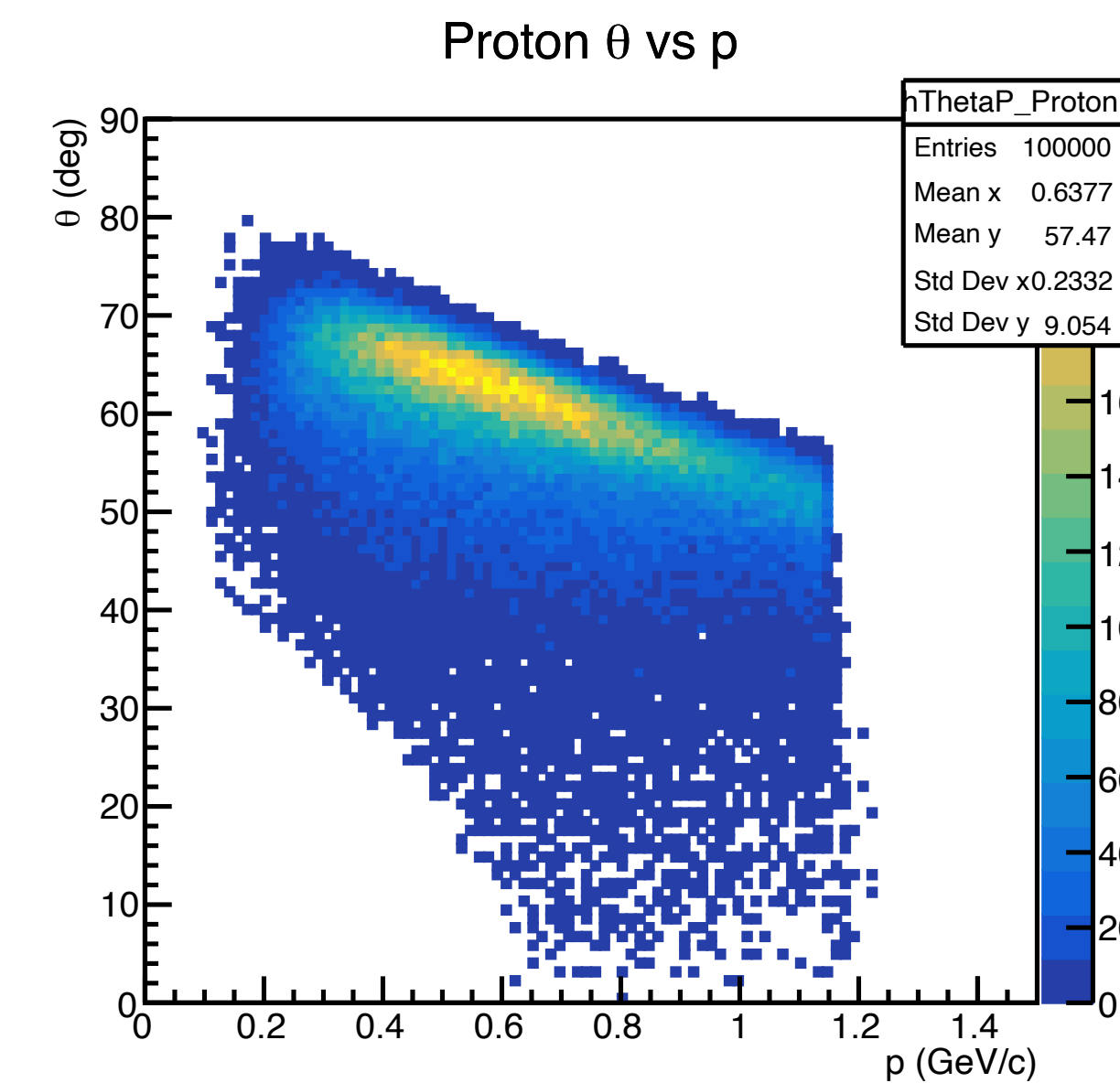
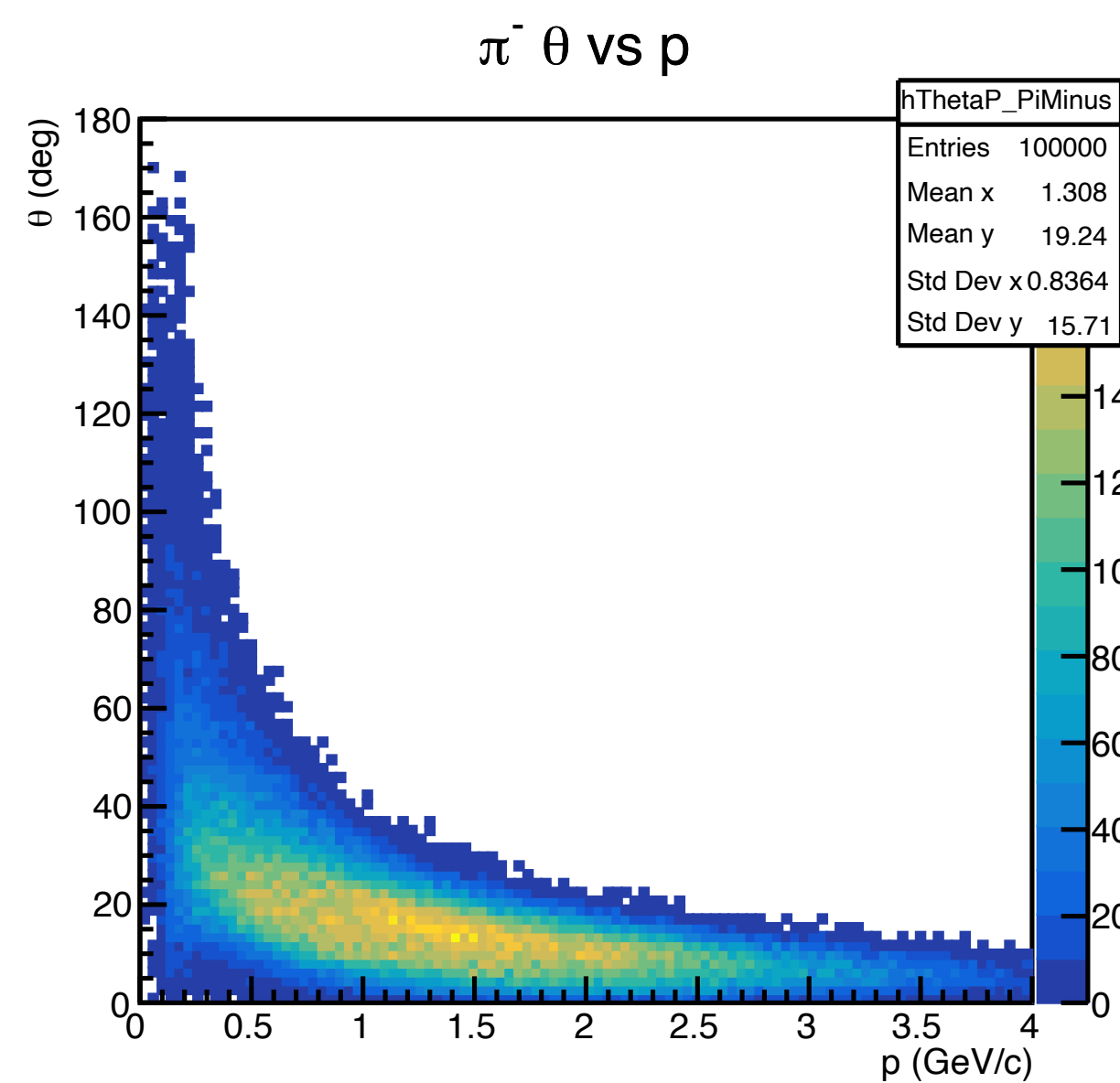
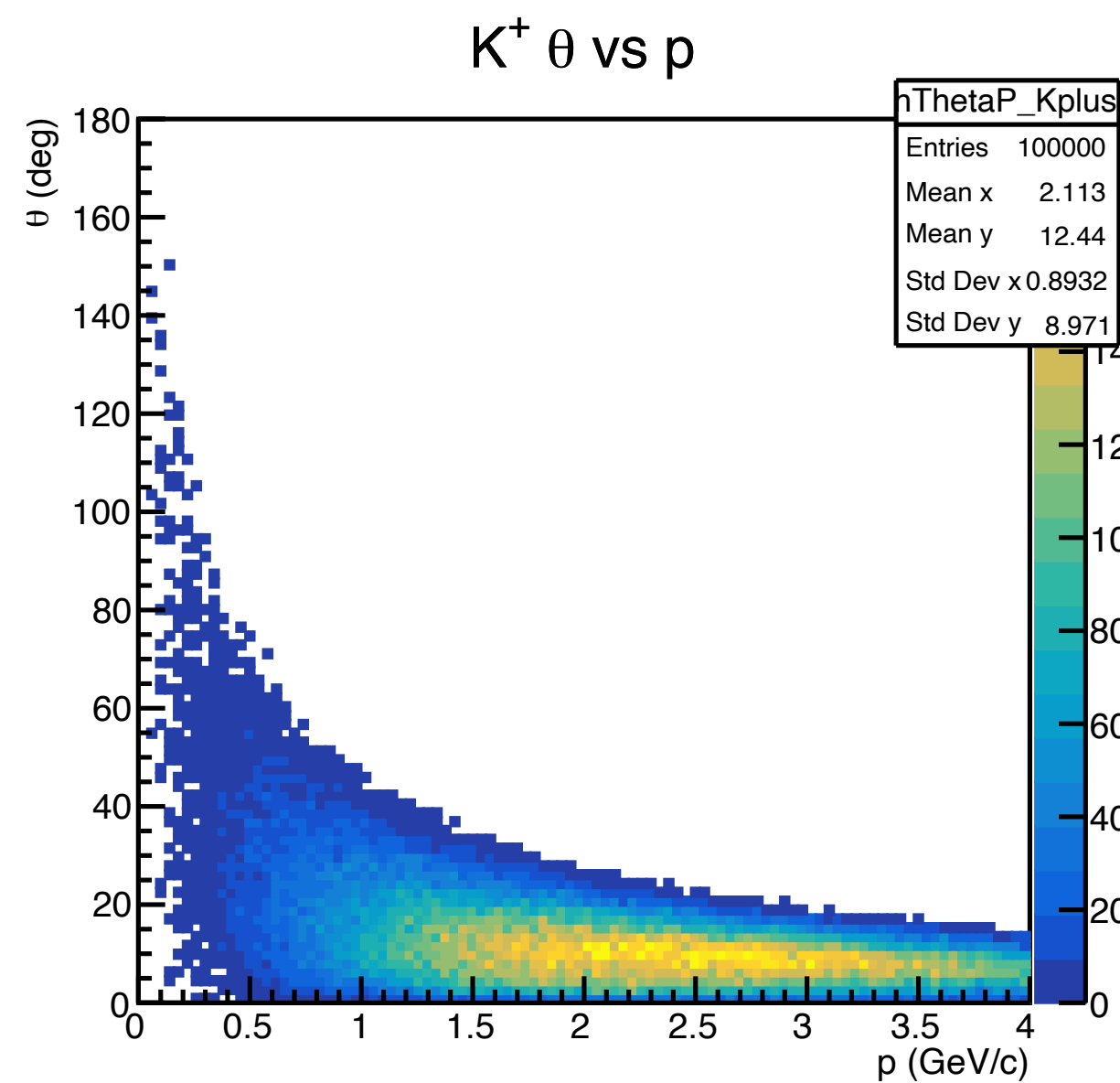


$$K_L^0 p \rightarrow K^{*0} (892) p \rightarrow K^+ \pi^- p$$

# Generated MC distribution $K_L^0 p \rightarrow K^{*0}(892)p \rightarrow K^+ \pi^- p$



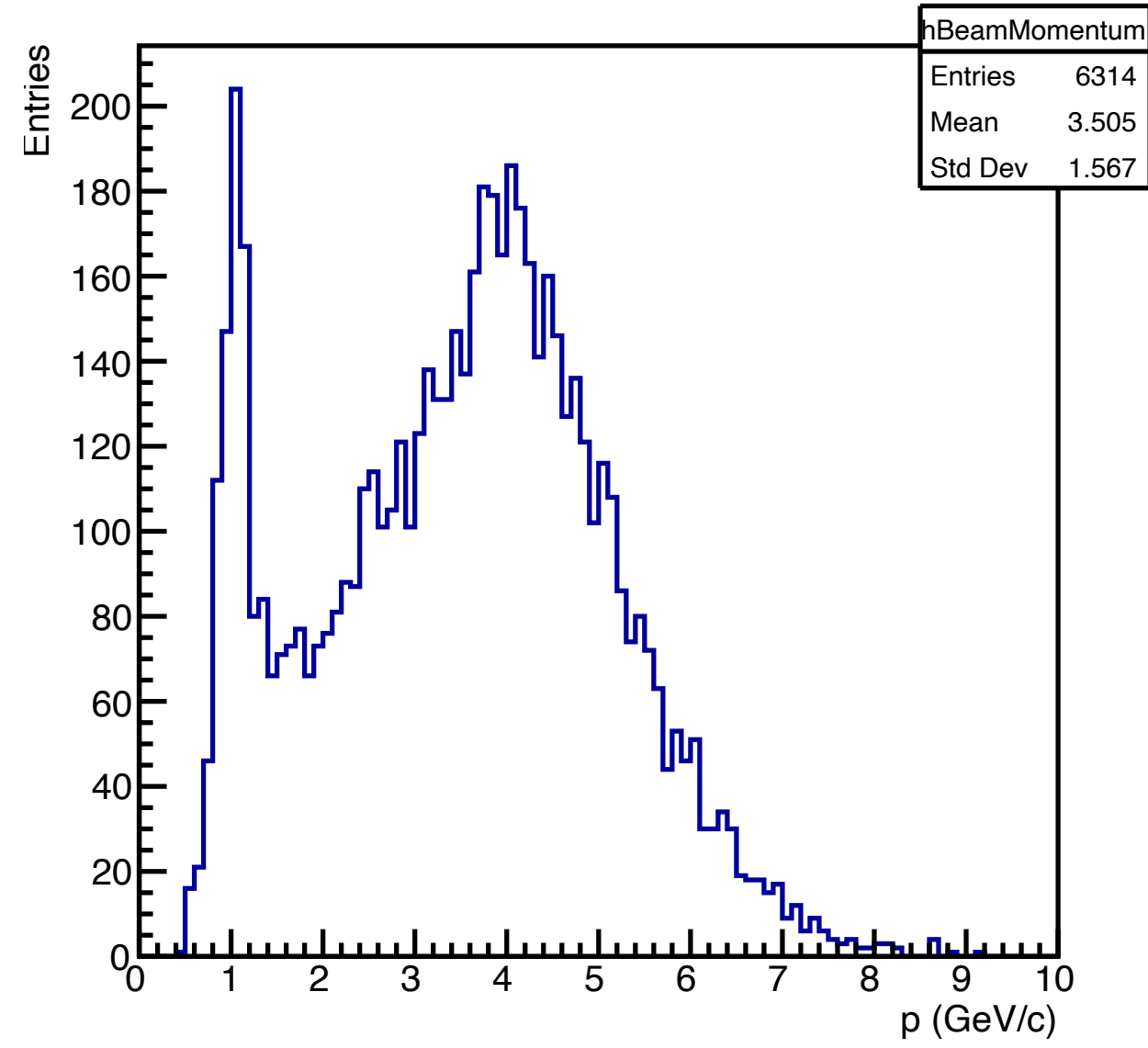
Regge-pole model  
Nucl. Phys. B10 151 (1969)



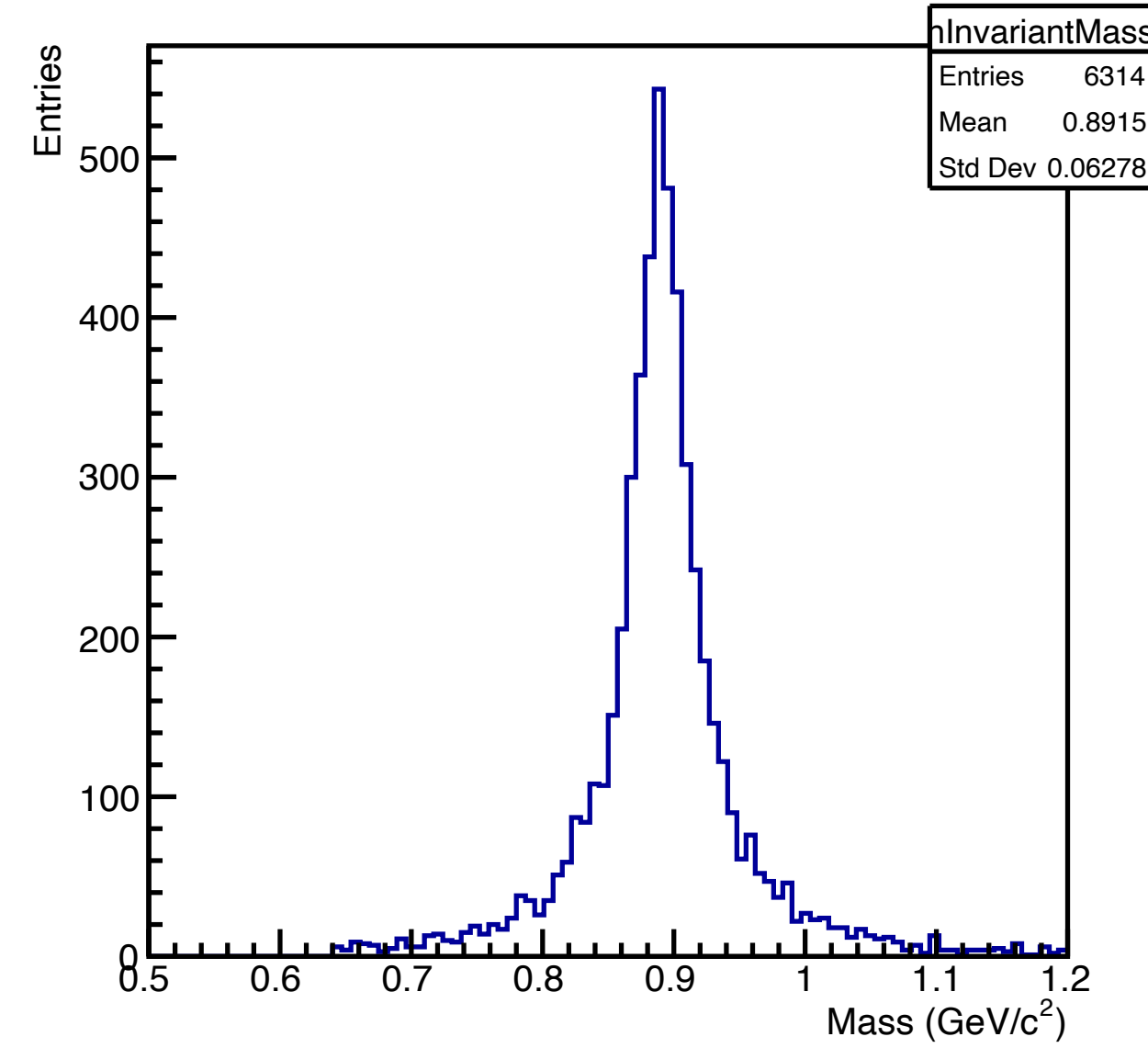
# Reconstructed distribution

/work/halld/home/sdobbs/KLF/version\_recon.klf-dev.xml

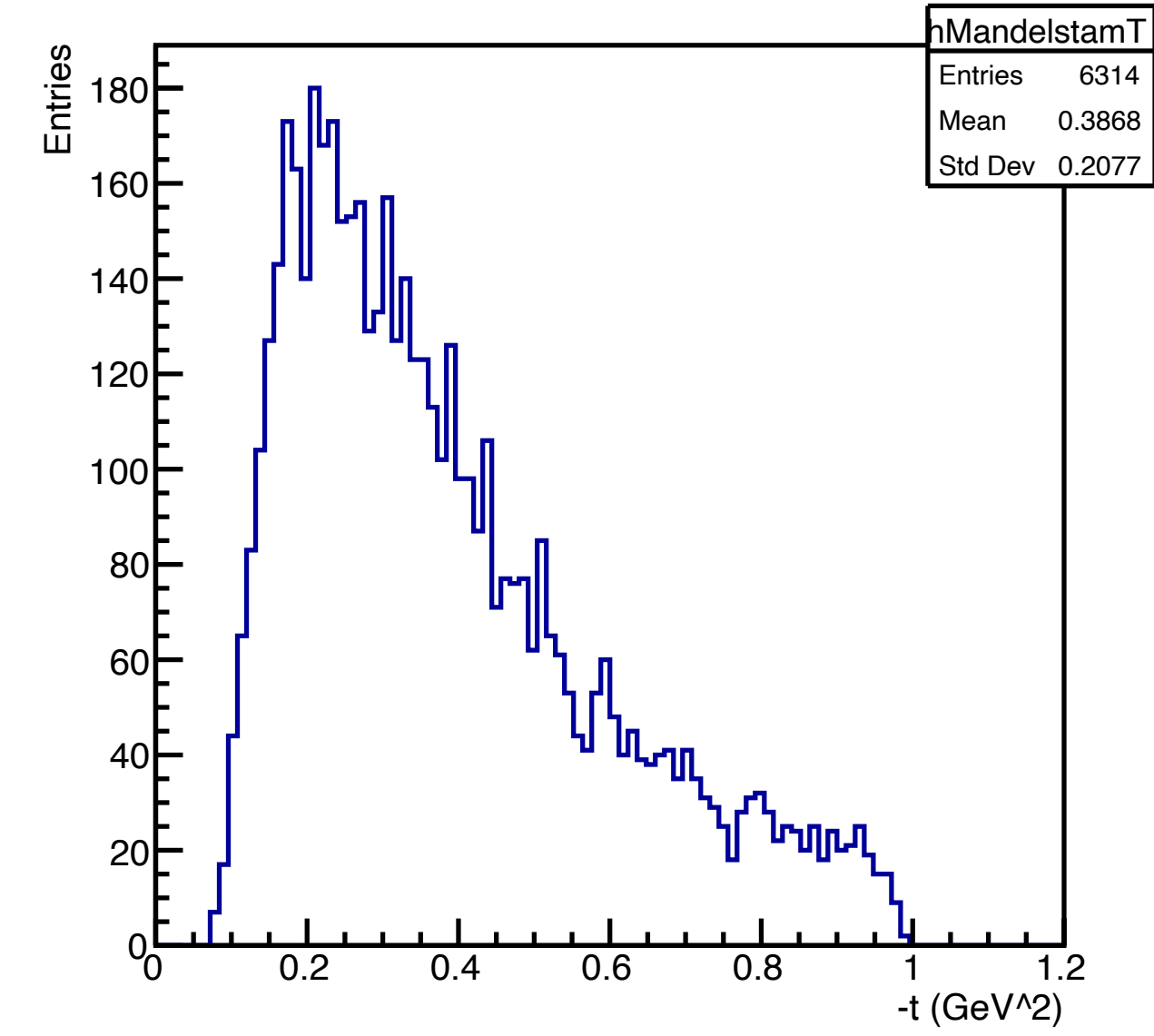
### Beam Momentum



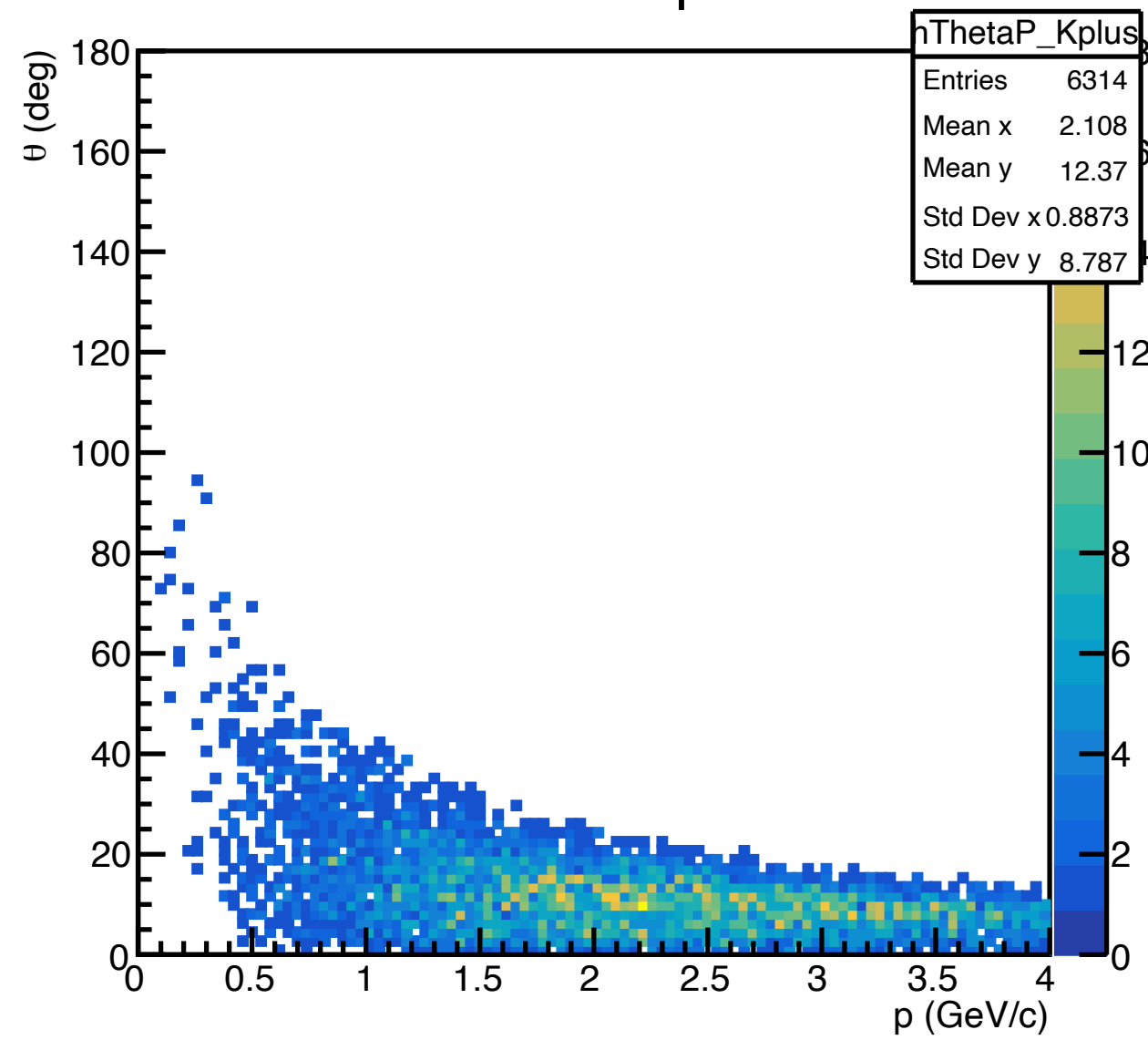
### Invariant Mass of $K^+ \pi^-$



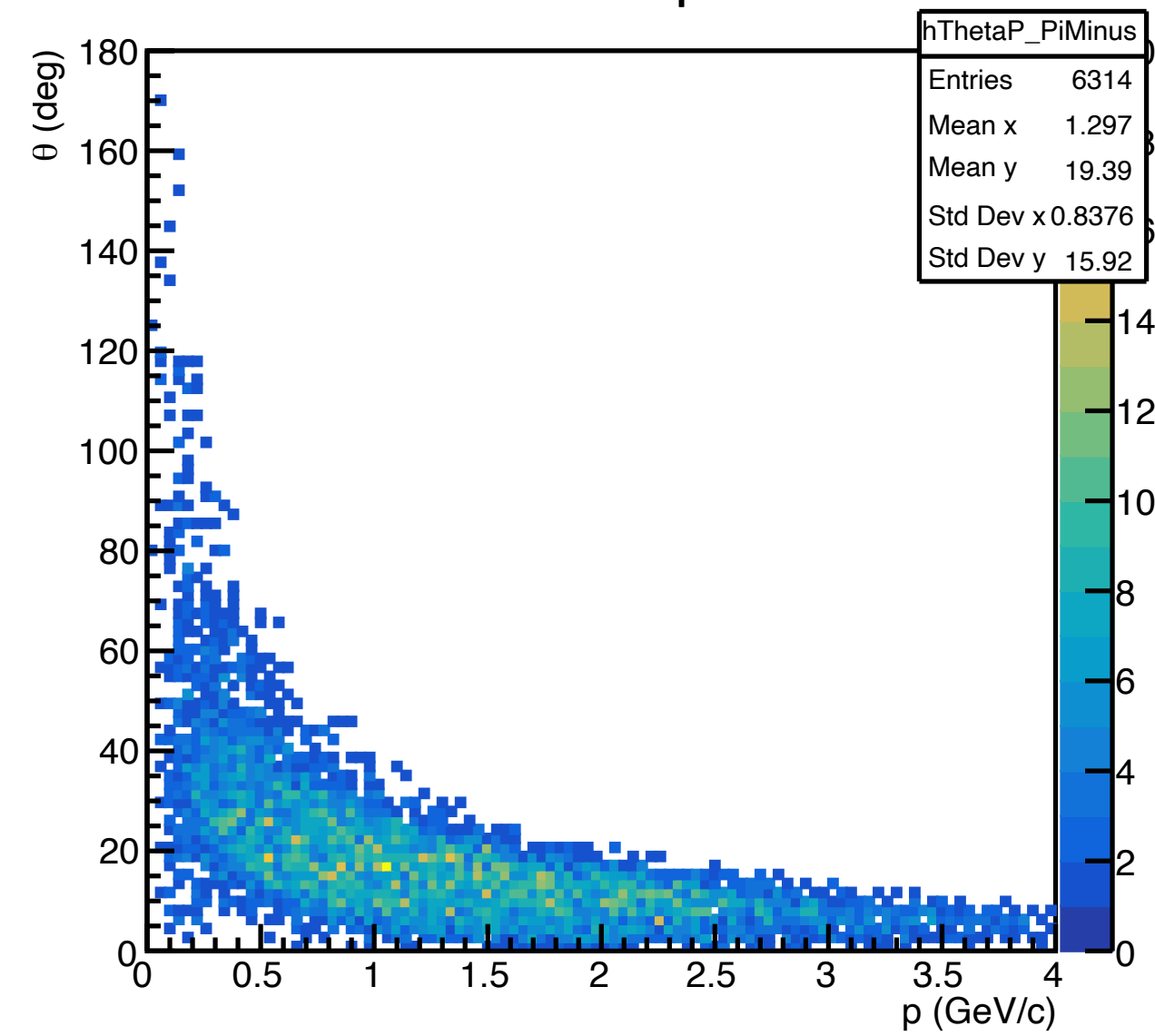
### Mandelstam -t



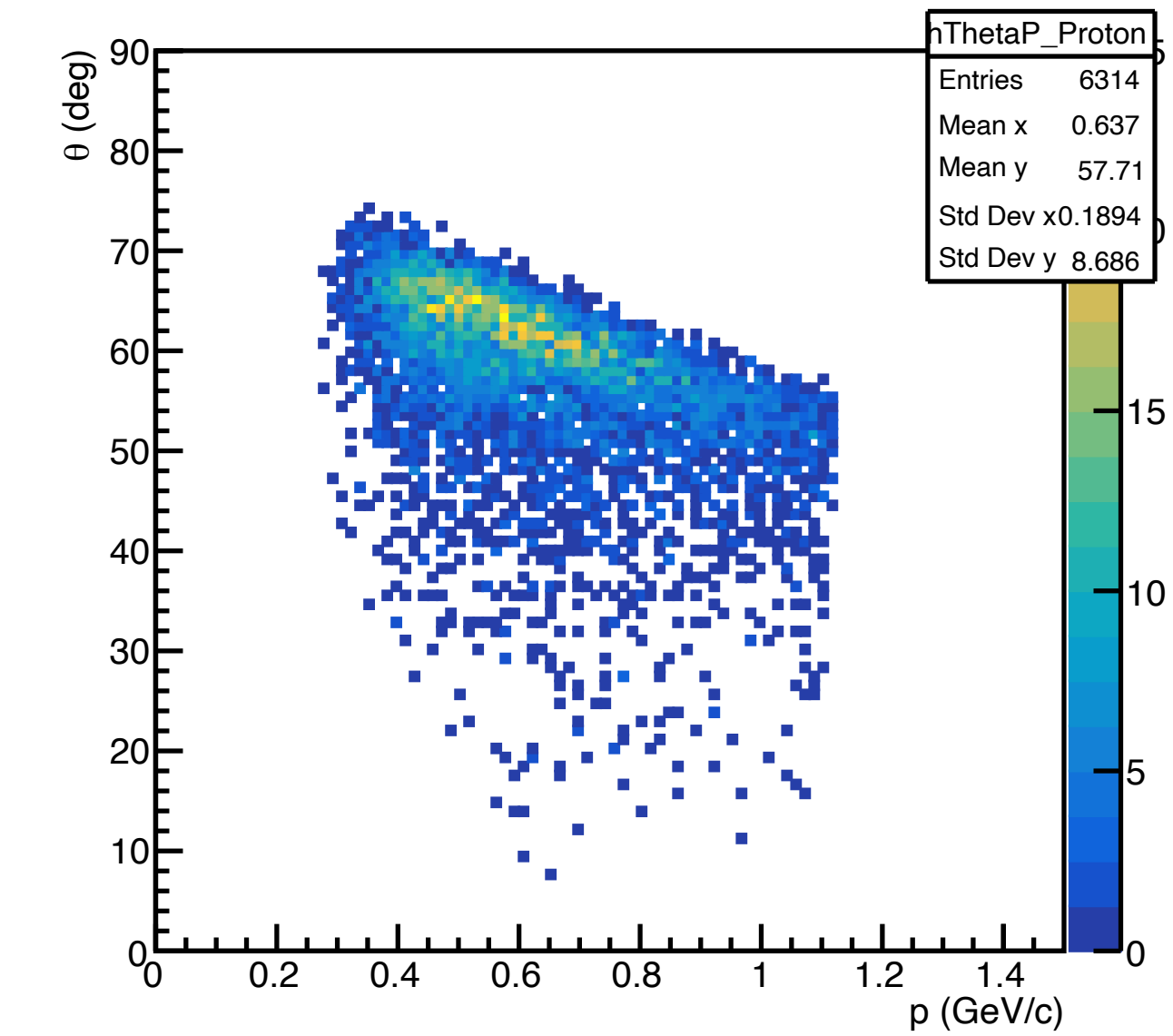
### $K^+$ $\theta$ vs p



### $\pi^-$ $\theta$ vs p



### Proton $\theta$ vs p

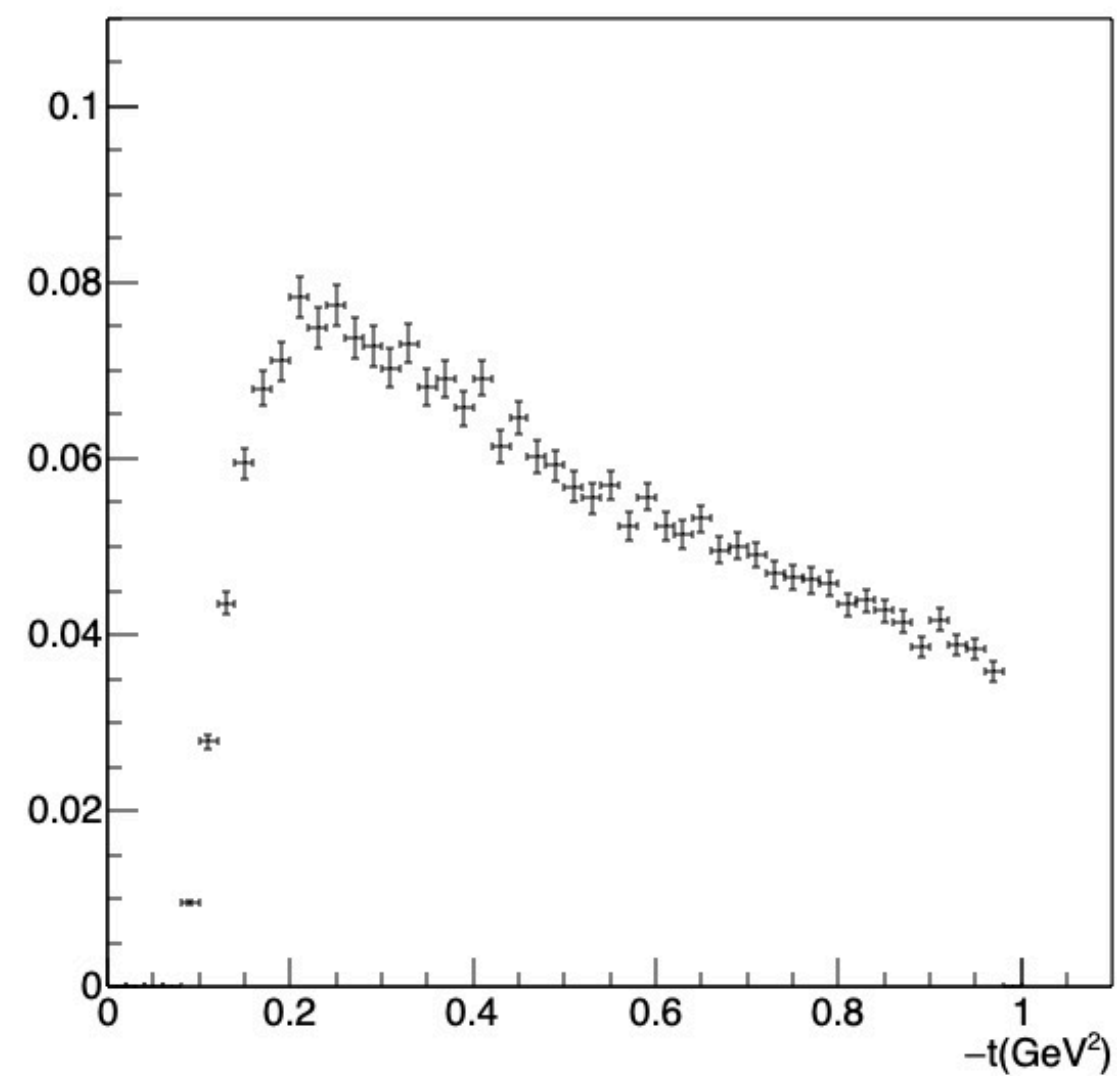


# Efficiency as a function of $-t$ , $M(K\pi)$

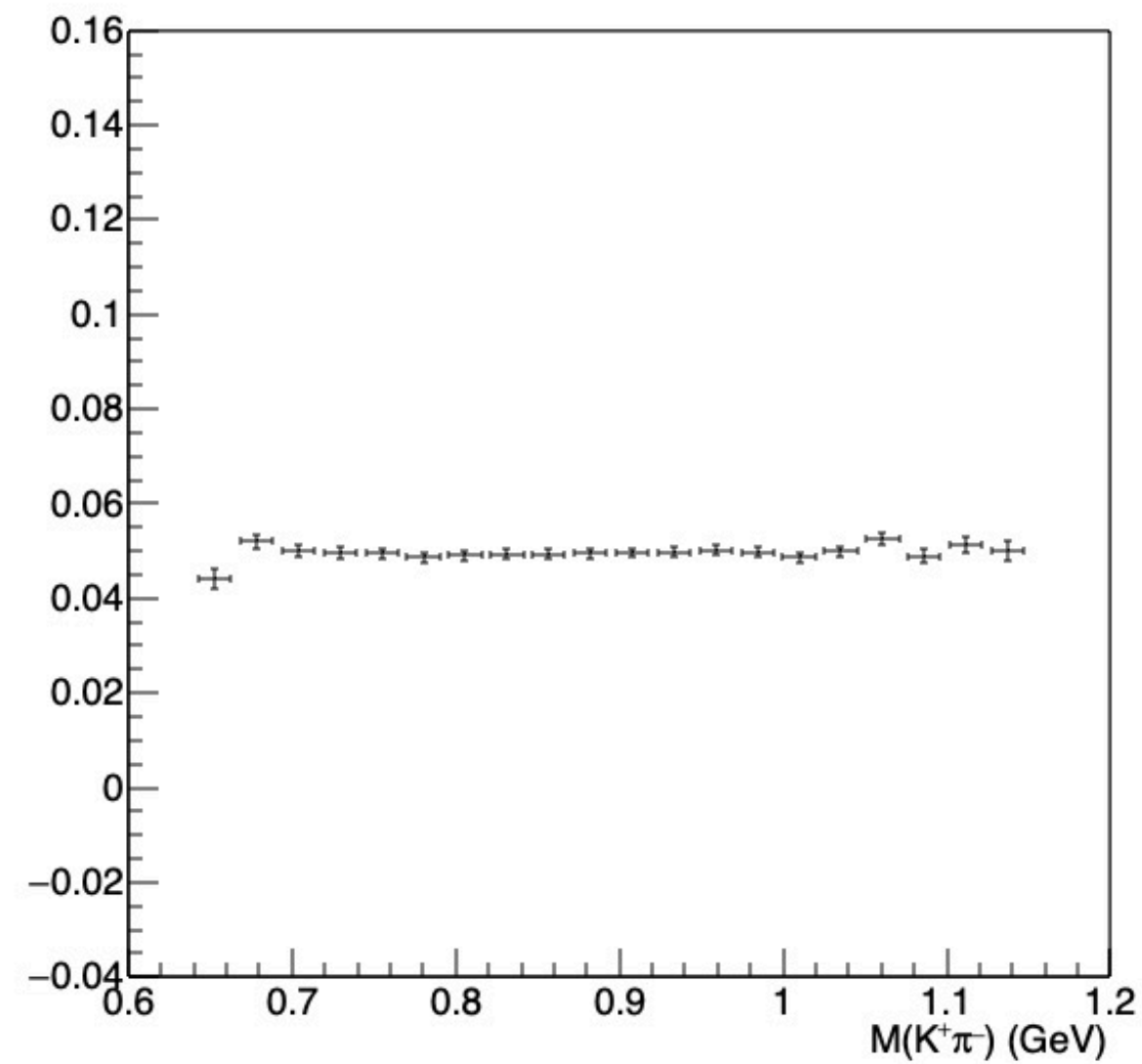
This simulation

Ref.) From Shankar's Note

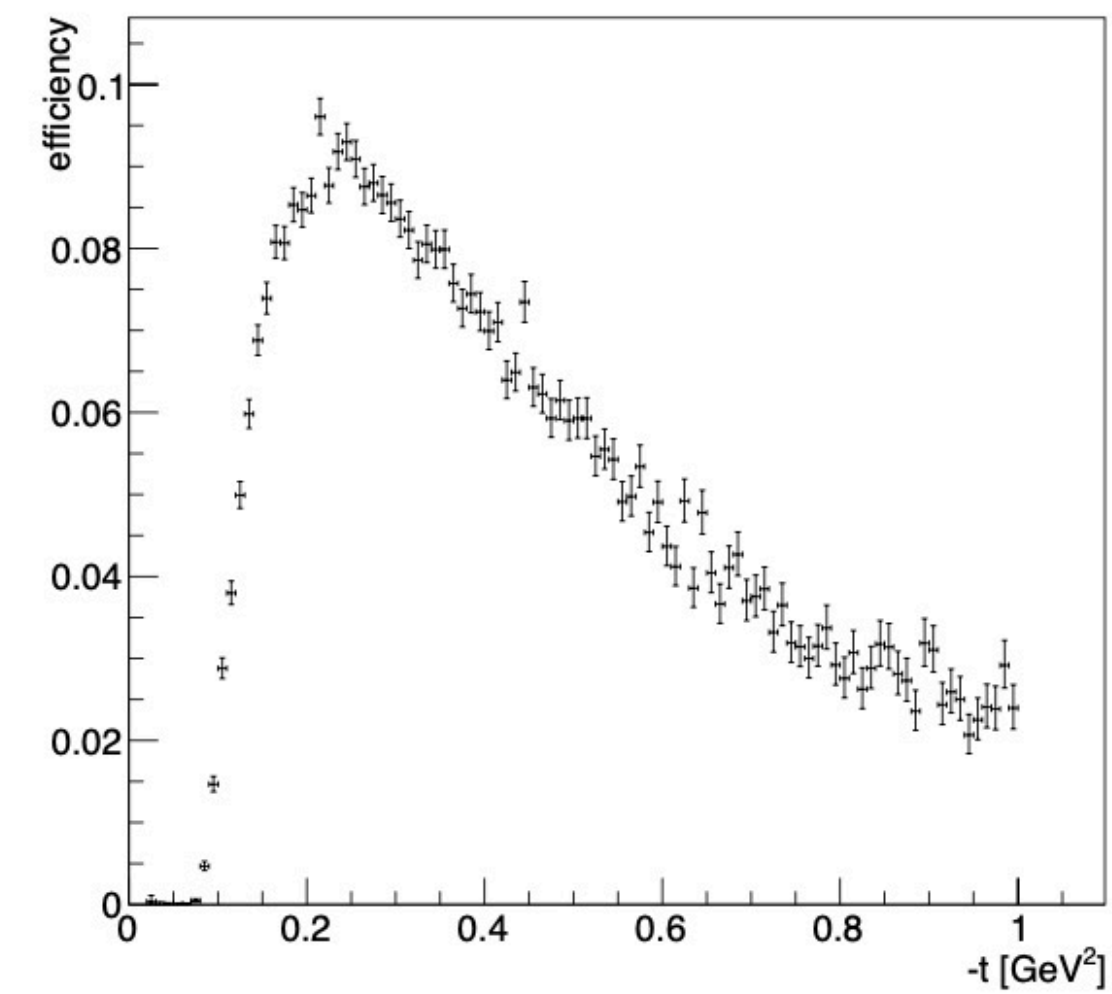
Efficiency



Efficiency



Transfer Four Momentum Efficiency



$K^+\pi^-$  Invariant Mass Efficiency

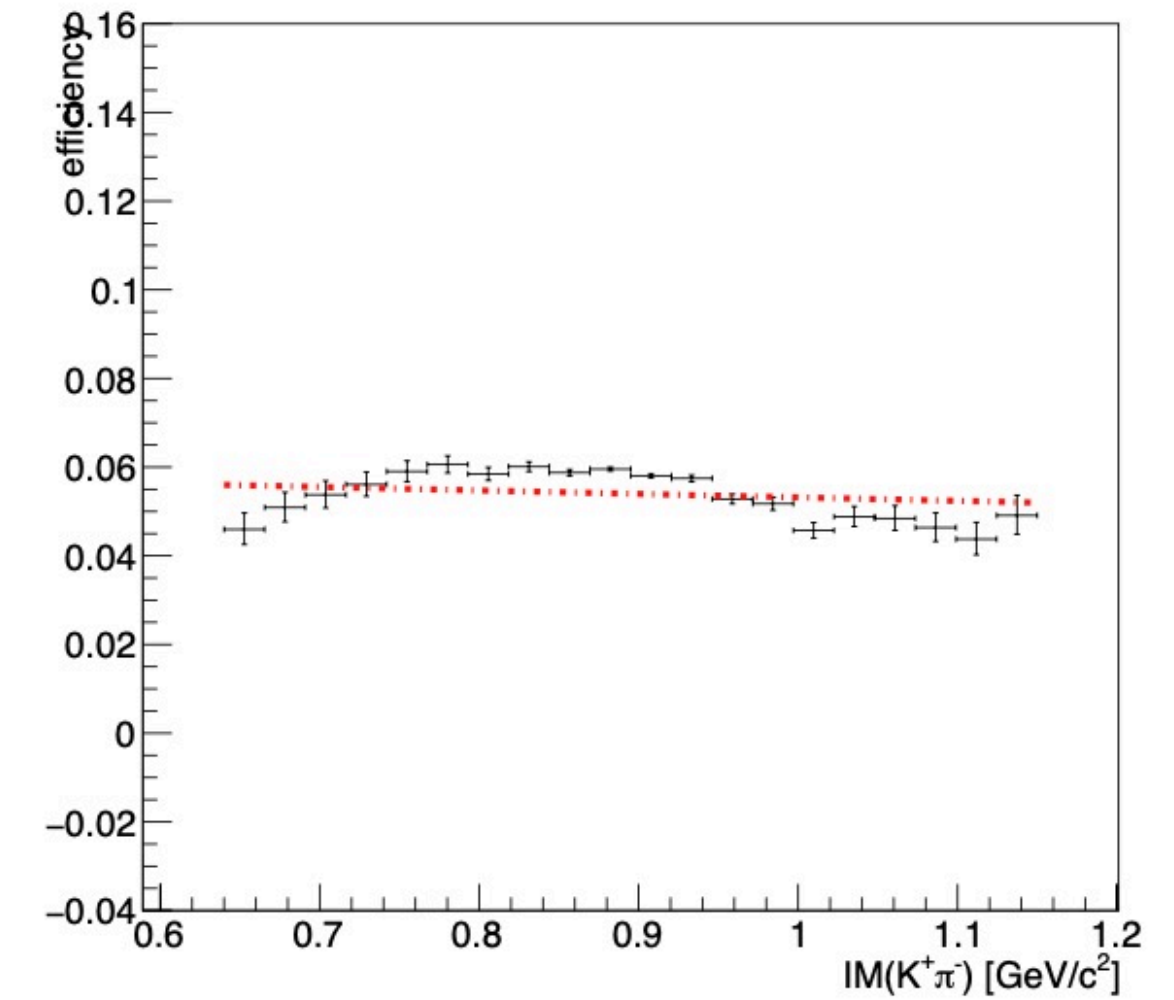


Figure 7: Reconstruction and selection efficiency of four momentum transfer (left plot) and  $K^+\pi^-$  invariant mass (right plot) from the analysis of proton detected in final state.