ALL XGBoost selected (true and false positive) Protons $mass^2$ histogram Counts 1750 XGBoost selected true protons XGBoost selected true kaons XGBoost selected true pions 1500 1250 1000 750 500 250 0 1.2 0.0 0.2 0.4 0.6 8.0 1.0 1.4 $m^2 (GeV/c^2)^2$