ALL XGBoost selected (true and false positive) Background mass<sup>2</sup> histogram Counts XGBoost selected true protons 175 XGBoost selected true kaons XGBoost selected true pions 150 125 100 75 50 25 0 0.10 -0.15-0.10-0.050.00 0.05 0.15  $m^2 (GeV/c^2)^2$