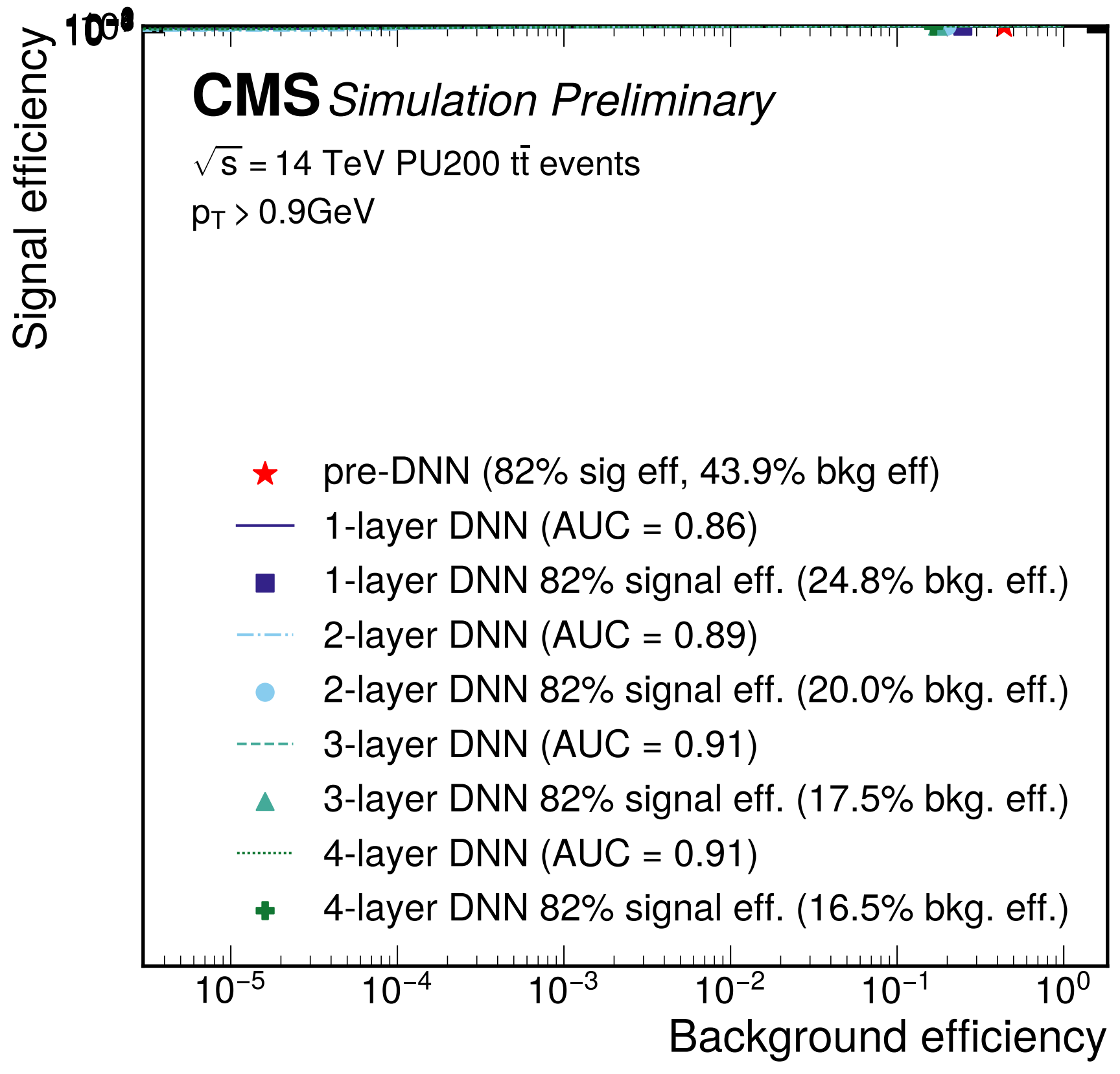
CMS Simulation Preliminary
√s = 14 TeV PU200 tt̄ events
p_T > 0.9GeV
pre-DNN (82% sig eff, 43.9% bkg eff)
1-layer DNN (AUC = 0.86)
1-layer DNN 82% signal eff. (24.8% bkg. eff.)
2-layer DNN (AUC = 0.89)
2-layer DNN 82% signal eff. (20.0% bkg. eff.)
3-layer DNN (AUC = 0.91)
3-layer DNN 82% signal eff. (17.5% bkg. eff.)
4-layer DNN (AUC = 0.91)
4-layer DNN 82% signal eff. (16.5% bkg. eff.)
Signal efficiency
Background efficiency
10^0
10^−5
10^−4
10^−3
10^−2
10^−1
10^0