Significance on EFT HDS uu, trained network on EFT HDS *m*_{Z′} 130 GeV *m*_{Z′} 200 GeV *m*_{Z′} 400 GeV $m_{Z^{\prime}}$ 600 GeV Expected significance $[\sigma]$ 10^{-6} 10^{-7} 0.2 0.0 0.4 0.6 8.0 1.0 XGBoost output