Significance on DH HDS ee, trained network on SR3 *m*_{Z′} 130 GeV *m*_{Z′} 200 GeV *m*_{Z′} 400 GeV $m_{Z^{\prime}}$ 600 GeV Expected significance $[\sigma]$ 10^{-1} 10^{-2} 0.2 0.0 0.4 0.6 8.0 1.0 XGBoost output