Significance on DH HDS uu, trained network on SR2 *m*<sub>Z′</sub> 130 GeV *m*<sub>Z′</sub> 200 GeV *m*<sub>Z′</sub> 400 GeV  $10^{-1}$  $m_{Z^\prime}$  600 GeV Expected significance  $[\sigma]$  $10^{-2}$  $10^{-3}$ 0.2 0.0 0.4 0.6 8.0 1.0

XGBoost output