Significance on LV HDS ee, trained network on SR2 *m*<sub>Z′</sub> 130 GeV  $m_{Z^\prime}$  200 GeV  $10^{-1}$ *mz*′ 400 GeV  $m_{Z^{\prime}}$  600 GeV Expected significance  $[\sigma]$  10  $^{-2}$  10  $^{-3}$  $10^{-2}$  $10^{-4}$ 0.2 0.0 0.4 0.6 8.0 1.0 XGBoost output