Significance on LV HDS ee, trained network on SR3 *m<sub>Z'</sub>* 130 GeV *m*<sub>Z′</sub> 200 GeV *m*<sub>Z′</sub> 400 GeV  $m_{Z^{\prime}}$  600 GeV  $10^{-1}$ Expected significance  $[\sigma]$  $10^{-2}$  $10^{-3}$ 0.2 0.0 0.4 0.6 8.0 1.0

XGBoost output