Significance on LV LDS ee, trained network on SR1 *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  $[\sigma]$  $10^{-2}$ 0.2 0.0 0.4 0.6 8.0 1.0 XGBoost output