XGBoost output, 2HDMa a150 H500 tb30 ee dataset, uscaled validation data Background Signal 10^{6} 10⁵ 10^{4} Events 10³ 10^{2} 10^{1} 10^{0} 0.2 0.4 0.0 0.6 8.0 1.0 XGBoost output