XGBoost output, 2HDMa a500 H1500 tb1 ee dataset, uscaled validation data Background Signal 10^{6} 10⁵ 10^{4} Events 10³ 10^{2} 10^{1} 10° 0.2 0.8 0.0 0.4 0.6 1.0 XGBoost output