XGBoost output, 2HDMa a150 H1000 tb1 D10 ee dataset, uscaled validation data Background Signal  $10^{4}$ 10<sup>3</sup> Events 10<sup>2</sup>  $10^1$ 10° 0.2 0.4 0.0 0.6 8.0 1.0 XGBoost output