XGBoost output, 2HDMa a150 H600 tb5 D10 ee dataset, uscaled validation data Background Signal  $10^{4}$ 10<sup>3</sup> Events 10<sup>2</sup>  $10^1$ 10° 0.4 0.2 0.8 0.0 0.6 1.0 XGBoost output