XGBoost output, 2HDMa a250 H1000 tb5 D10 uu dataset, uscaled validation data Background Signal  $10^{4}$ 10<sup>3</sup> Events  $10^{2}$  $10^1$ 10° 0.4 0.2 0.0 0.6 8.0 1.0 XGBoost output