XGBoost output, 2HDMa a700 H1000 tb1 D10 uu dataset, uscaled validation data Background Signal  $10^{4}$ 10<sup>3</sup> Events 10<sup>2</sup> 10<sup>1</sup> 10° 0.4 0.2 0.8 0.0 0.6 1.0 XGBoost output