XGBoost output, 2HDMa a200 H600 tb30 D10 uu dataset, uscaled validation data 10<sup>5</sup> Background Signal  $10^{4}$ 10<sup>3</sup> Events 10<sup>2</sup> 10<sup>1</sup> 10° 0.2 0.4 0.0 0.6 8.0 1.0 XGBoost output