XGBoost output, 2HDMa a200 H1800 tb1 D10 uu dataset, uscaled validation data  $10^{5}$ Background Signal  $10^{4}$ 10<sup>3</sup> Events 10<sup>2</sup> 10<sup>1</sup>  $10^{0}$ 0.4 0.2 0.0 0.6 8.0 1.0 XGBoost output