Model output, Full DM trained network on DH HDS $m_{Z'}$ =130 GeV uu model, validation data Background 10^{5} Signal 10^{4} 10^{3} 10² Events 10^1 10⁰ 10^{-1} 10^{-2} 0.2 0.0 0.4 0.6 8.0 1.0 TF output