QCD simulation, PU200 1.0 8.0 0.6 0.4 Neutral hadrons Rule-based PF 0.2 **MLPF** 0.0 -5.0 0.0 5.0 η 1.0 Fake rate 0.8 0.6 0.4 Neutral hadrons 0.2 Rule-based PF **MLPF** 0.0 2.5 -2.5 0.0 5.0 -5.0 η