

ATLAS Simulation Internal

$\sqrt{s} = 14$ TeV, HL-LHC

$\langle\mu\rangle = 200$

$t\bar{t}, J/\psi, Z \rightarrow \mu\mu$

Muon $p_T \geq 5$ GeV

True Positive Rate (Efficiency)

1.2

1.0

0.8

0.6

0.4

0.2

0.0

0.0

0.2

0.4

0.6

0.8

1.0

False Positive Rate

ROC curve (AUC = 0.9997)

Random classifier

