

**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

Hit Purity (Precision)

1.0

0.8

0.6

0.4

0.95

0.96

0.97

0.98

0.99

1.00

Hit Efficiency (Recall)



Working Point 0.9900