

# CMS Phase-2 Simulation

Average Tight Muon Bkg Multiplicity

$t\bar{t}$  events

- Phase-2  $\langle\text{PU}\rangle = 0$ ,  $\sqrt{s} = 14$  TeV
- + Phase-2  $\langle\text{PU}\rangle = 140$ ,  $\sqrt{s} = 14$  TeV
- Phase-2  $\langle\text{PU}\rangle = 200$ ,  $\sqrt{s} = 14$  TeV
- ▲ Phase-1  $\langle\text{PU}\rangle = 35$ ,  $\sqrt{s} = 13$  TeV

