

PU = 140, 14 TeV

CMS PhaseII Simulation

Trigger reconstruction efficiency

$$H \rightarrow 2n_1 \rightarrow 2n_D 2\gamma_D \rightarrow 2n_D 4\mu$$

$$c\tau(\gamma_D) = 50 \text{ mm}, m(\gamma_D) = 0.4 \text{ GeV}$$

— L1Mu

— L1TkMu

Dark photon L_{xy} [cm]

