

CMS Simulation (LHE) 14TeV TeV

Fraction of events / 1 GeV

$pp \rightarrow h \rightarrow 2n_1 \rightarrow 2n_D + 2\gamma_D \rightarrow 2n_D + 4\mu$

$m_h = 125 \text{ GeV}, m_{n_1} = 50 \text{ GeV}, m_{n_D} = 1 \text{ GeV}$

$m_{\gamma_D} = 20 \text{ GeV}, c\tau_{\gamma_D} = 1000 \text{ mm}$

— 1st dark photon (leading p_T)

— 2nd dark photon

