CMS Simulation (LHE) 13 TeV $|pp| \rightarrow h \rightarrow 2h_1 \rightarrow |2h_D + 2\gamma_D \rightarrow 2h_D + 4\mu$ GeV 0.03 $m_h = 125 \text{ GeV}, m_{n_s} = 10 \text{ GeV}, m_{n_s} = 1 \text{ GeV}$ $m_{\gamma_D} = 10 \text{ GeV}, c\tau_{\gamma_D} = 100 \text{ mm}$ Fraction of events / 1 0.025 0.02 0.015 0.01 0.005 30 50 40 60 90