CMS Simulation (LHE) 14TeV TeV $|pp| \rightarrow |h| \rightarrow |2h_1| \rightarrow |2h_D| + |2\gamma_D| \rightarrow |2h_D| + |4\mu|$ Normalized Fraction of events 610.0 mm $m_h = 125 \text{ GeV}, m_{n_s} = 50 \text{ GeV}, m_{n_s} = 1 \text{ GeV}$ $m_{\gamma_{D}} = 20 \text{ GeV}, c\tau_{\gamma_{D}} = 100 \text{ mm}$ 100 150 200 250 300 350 400 450 500