## CMS Simulation (LHE) 13 TeV 0.045 GeV $pp \rightarrow h \rightarrow 2h_1 \rightarrow 2h_D + 2\gamma_D \rightarrow 2h_D + 4\mu$ $m_h = 125 \text{ GeV}, m_{n_s} = 10 \text{ GeV}, m_{n_p} = 1 \text{ GeV}$ 0.04 $m_{\gamma_{S}} = 2 \text{ GeV}, c\tau_{\gamma_{S}} = 20 \text{ mm}$ Fraction of events / 1 0.035 0.03 0.025 0.02 0.015 0.01 0.005 30 40 50 60 80 90