CMS Simulation (LHE) 8 TeV 0.045 Fraction of events / 1 Ge\ $pp \rightarrow h \rightarrow 2n_1 \rightarrow 2n_D + 2~\gamma_D \rightarrow 2n_D + 4\mu$ $m_h = 125 \text{ GeV}, m_{n_s} = 10 \text{ GeV}, m_{n_b} = 1 \text{ GeV}$ 0.04 $m_{\gamma_D} = 0.400 \text{ GeV}, c\tau_{\gamma_D} = 0.5 \text{ mm}$ 0.035 0.03 0.025 0.02 0.015 0.01 0.005 30 40 50 60 90 80