CMS Simulation (LHE) 13 TeV Fraction of events / 1 GeV $pp \rightarrow h \rightarrow 2n_1 \rightarrow 2n_D + 2~\gamma_D \rightarrow 2n_D + 4\mu$ 0.25 $m_h = 125 \text{ GeV}, m_{n_s} = 10 \text{ GeV}, m_{n_s} = 1 \text{ GeV}$ $m_{\gamma_D} = 8.5 \text{ GeV}, c\tau_{\gamma_D} = 0.2 \text{ mm}$ —1st n_D (leading p_T) 0.2 2nd n_D 0.15 0.1 0.05 20 40 120 60 80 100