CMS Simulation (LHE) 13 TeV Fraction of events / 1 GeV 0.04 0.035 0.05 0.015 0.015 $pp \rightarrow h \rightarrow 2h_1 \rightarrow 2h_D + 2\gamma_D \rightarrow 2h_D + 4\mu$ $m_h = 125 \text{ GeV}, m_{n_s} = 10 \text{ GeV}, m_{n_p} = 1 \text{ GeV}$ $m_{\gamma_{D}} = 0.7$ GeV, $c\tau_{\gamma_{D}} = 0.5$ mm —1st n_D (leading p_T) 2nd n_D 0.005 40 100 120 20 60 80 p of n [GeV]