CMS Simulation (LHE) 8 TeV 0.06 Fraction of events / 1 GeV $pp \rightarrow h \rightarrow 2n_1 \rightarrow 2n_D + 2~\gamma_D \rightarrow 2n_D + 4\mu$ $m_h = 125 \text{ GeV}, m_{n_s} = 10 \text{ GeV}, m_{n_s} = 1 \text{ GeV}$ $m_{\gamma_{\scriptscriptstyle D}} = 0.250$ GeV, $c\tau_{\gamma_{\scriptscriptstyle D}} = 1.$ mm 0.05 —1st n_D (leading p_T) 2nd n_D 0.04 0.03 0.02 0.01 20 40 60 80 100 120 p of n [GeV]