CMS Simulation (LHE) 8 TeV 0.3 $pp \rightarrow h \rightarrow 2n_1 \rightarrow 2n_D + 2~\gamma_D \rightarrow 2n_D + 4\mu$ $m_h = 125 \text{ GeV}, m_{n_s} = 10 \text{ GeV}, m_{n_s} = 1 \text{ GeV}$ Fraction of events / 1 $m_{\gamma_{D}} = 0.250$ GeV, $c\tau_{\gamma_{D}} = 5$. mm 0.25 — 1st muon (leading p_T) 2nd muon 3rd muon 4th muon 0.2 0.15 0.1 0.05 40 60 120 100 80 of μ [GeV]