CMS Simulation (LHE) 13 TeV 0.18 $pp \rightarrow h \rightarrow 2n_1 \rightarrow 2n_D + 2\gamma_D \rightarrow 2n_D + 4\mu^{\dagger}$ Fraction of events / 1 GeV $m_h = 125 \text{ GeV}, m_{n_s} = 10 \text{ GeV}, m_{n_h} = 1 \text{ GeV}$ 0.16 $m_{\gamma_{D}} = 8.5 \text{ GeV}, c\tau_{\gamma_{D}} = 0.5 \text{ mm}$ — 1st muon (leading p_⊤) ·-- 2nd muon ···· 3rd muon 0.14 - · - 4th muon 0.12 0.1 0.08 0.06 0.04 0.02 120 20 80 100 40 60 of μ [GeV]