CMS Simulation (LHE) 8 TeV GeV $pp \rightarrow h \rightarrow 2n_1 \rightarrow 2n_D + 2~\gamma_D \rightarrow 2n_D + 4\mu$ 0.16 $m_h = 125 \text{ GeV}, m_{n_s} = 10 \text{ GeV}, m_{n_s} = 1 \text{ GeV}$ Fraction of events / 1 $m_{\gamma_{0}} = 0.850 \text{ GeV}, c\tau_{\gamma_{0}} = 0.00 \text{ mm}$ 0.14 — 1st muon (leading p_{_}) --- 2nd muon 3rd muon 4th muon 0.12 0.1 0.08 0.06 0.04 0.02 40 120 20 60 80 100 p of μ [GeV]