CMS Simulation (LHE) 8 TeV 0.25 Fraction of events / 1 GeV $pp \rightarrow h \rightarrow 2n_1 \rightarrow 2n_D + 2~\gamma_D \rightarrow 2n_D + 4\mu$ $m_h = 125 \text{ GeV}, m_{n_s} = 10 \text{ GeV}, m_{n_s} = 1 \text{ GeV}$ $m_{\gamma_{\scriptscriptstyle D}} = 0.300$ GeV, $c\tau_{\gamma_{\scriptscriptstyle D}} = 0.05$ mm 0.2 – 1st muon (leading p_{_}) - 2nd muon 3rd muon - · - 4th muon 0.15 0.1 0.05 40 120 20 60 80 100 p_{τ} of μ [GeV]