## CMS Simulation (LHE) 13 TeV 0.09 Fraction of events / 1 GeV $pp \rightarrow h \rightarrow 2n_1 \rightarrow 2n_D + 2~\gamma_D \rightarrow 2n_D + 4\mu$ $m_h = 125 \text{ GeV}, m_{n_s} = 10 \text{ GeV}, m_{n_s} = 1 \text{ GeV}$ 80.0 $m_{\gamma_{D}}$ = 8.5 GeV, $c\tau_{\gamma_{D}}$ = 10. mm — 1st muon (leading p<sub>T</sub>) --- 2nd muon ---- 3rd muon 0.07 4th muon 0.06 0.05 0.04 0.03 0.02 0.01 20 80 120 40 60 100 p of $\mu$ [GeV]