## CMS Simulation (LHE) 13 TeV $pp \rightarrow h \rightarrow 2n_1 \rightarrow 2n_D + 2\gamma_D \rightarrow 2n_D + 4\mu$ 0.18 Fraction of events / 1 GeV $m_h = 125 \text{ GeV}, m_{n_s} = 10 \text{ GeV}, m_{n_h} = 1 \text{ GeV}$ $m_{\gamma_2} = 8.5 \text{ GeV}, c\tau_{\gamma_2} = 100 \text{ mm}$ 0.16 1st muon (leading p<sub>T</sub>) 2nd muon 3rd muon 0.14 - · - 4th muon 0.12 0.1 80.0 0.06 0.04 0.02 100 120 20 80 40 60 $p_{\perp}$ of $\mu$ [GeV]