## CMS Simulation (LHE) 13 TeV $pp \rightarrow h \rightarrow 2h_1 \rightarrow 2h_D + 2\gamma_D \rightarrow 2h_D + 4\mu$ 0.04 Fraction of events / 0.7 $m_h = 125 \text{ GeV}, m_{n_s} = 10 \text{ GeV}, m_{n_D} = 1 \text{ GeV}$ $m_{\gamma_{D}} = 5$ GeV, $c\tau_{\gamma_{D}} = 2$ mm 1st muon (leading p<sub>T</sub>) 2nd muon 3rd muon 0.03 - · - 4th muon 0.02 0.01