## CMS Simulation (LHE) 13 TeV 0.04 $pp \rightarrow h \rightarrow 2h_1 \rightarrow 2h_D + 2\gamma_D \rightarrow 2h_D + 4\mu$ Fraction of events / 0. $m_h = 125 \text{ GeV}, m_{n_s} = 10 \text{ GeV}, m_{n_p} = 1 \text{ GeV}$ $m_{\gamma_2}$ = 8.5 GeV, $c\tau_{\gamma_2}$ = 20 mm — 1st muon (leading p<sub>T</sub>) --- 2nd muon --- 3rd muon 0.03 - · - 4th muon 0.02 0.01 3