## CMS Simulation (LHE) 14 TeV $pp \rightarrow h \rightarrow 2h_1 \rightarrow 2h_D + 2\gamma_D \rightarrow 2h_D + 4\mu$ 0.04 Fraction of events / 0. $m_h = 125 \text{ GeV}, m_{n_s} = 50 \text{ GeV}, m_{n_p} = 1 \text{ GeV}$ $m_{\gamma_2}$ = 20 GeV, $c\tau_{\gamma_2}$ = 1000 mm 1st muon (leading p<sub>T</sub>) 2nd muon 3rd muon 4th muon 0.03 0.02 0.01