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. $m_h = 125 \text{ GeV}, m_{n_s} = 10 \text{ GeV}, m_{n_p} = 1 \text{ GeV}$ $m_{\gamma_D} = 0.4$ GeV, $c\tau_{\gamma_D} = 10$. mm 1st muon (leading p_T) 2nd muon 1st electron 0.03 - . . 2nd electron 0.02 0.01 3