CMS Simulation (LHE) 14TeV TeV Fraction of events / 0.1 0.035 0.03 0.035 0.03 0.035 0.035 0.03 $pp \rightarrow h \rightarrow 2h_1 \rightarrow 2h_D + 2\gamma_D \rightarrow 2h_D + 4\mu'$ $m_h = 125 \text{ GeV}, m_{n_s} = 10 \text{ GeV}, m_{n_h} = 1 \text{ GeV}$ $m_{\gamma_{D}} = 20 \text{ GeV}, c\tau_{\gamma_{D}} = 100 \text{ mm}$ _1st μμ (leading p_) 2nd μμ 0.01 0.005