## CMS Simulation (LHE) 13 TeV 0.04 $pp \rightarrow h \rightarrow 2h_1 \rightarrow 2h_D + 2\gamma_D \rightarrow 2h_D + 4\mu$ o.04 0.035 0.035 0.025 $m_h = 125 \text{ GeV}, m_{n_s} = 10 \text{ GeV}, m_{n_b} = 1 \text{ GeV}$ $m_{\gamma_2} = 0.4 \text{ GeV}, c\tau_{\gamma_2} = 2. \text{ mm}$ 1st dark photon (leading p<sub>T</sub>) 2nd dark photon Fraction o.0. 0.01 0.005