## CMS Simulation (LHE) 13 TeV $pp \rightarrow h \rightarrow 2h_1 \rightarrow 2h_D + 2\gamma_D \rightarrow 2h_D + 4\mu$ 0.03 Fraction of events / 0.050 0.0 $m_h = 125 \text{ GeV}, m_{n_a} = 60 \text{ GeV}, m_{n_b} = 1 \text{ GeV}$ $m_{\gamma_{S}} = 58 \text{ GeV}, c\tau_{\gamma_{S}} = 5 \text{ mm}$ 1st μμ (leading p<sub>τ</sub>) 2nd μμ 0.01 0.005