CMS Simulation (LHE) 13 TeV $pp \rightarrow h \rightarrow 2h_1 \rightarrow 2h_D + 2\gamma_D \rightarrow 2h_D + 4\mu$ $m_h = 125 \text{ GeV}, m_{n_a} = 10 \text{ GeV}, m_{n_b} = 1 \text{ GeV}$ $m_{\gamma_{S}} = 8.5 \text{ GeV}, c\tau_{\gamma_{S}} = 5 \text{ mm}$

3.5

2.5

m_{luu} [GeV]

