CMS Simulation (LHE) 13 TeV $pp \rightarrow h \rightarrow 2h_1 \rightarrow 2h_D + 2\gamma_D \rightarrow 2h_D + 4\mu$ $m_h = 125 \text{ GeV}, m_{n_s} = 10 \text{ GeV}, m_{n_D} = 1 \text{ GeV}$ $m_{\gamma_{S}} = 58 \text{ GeV}, c\tau_{\gamma_{S}} = 5 \text{ mm}$ 1st μμ (leading p_τ) 2nd μμ

0.03

Fraction of events / 0.050 0.0

0.01

0.005