CMS Simulation (LHE) 13 TeV $pp \rightarrow h \rightarrow 2n_1 \rightarrow 2n_D + 2\gamma_D \rightarrow 2n_D + 4\mu$ $m_h = 125 \text{ GeV}, m_{n_a} = 10 \text{ GeV}, m_{n_b} = 1 \text{ GeV}$ $m_{\gamma_2} = 8.5 \text{ GeV}, c\tau_{\gamma_2} = 100 \text{ mm}$ 20 100 120 40 60 80 Mass of Fake μμ [GeV]