CMS Simulation (LHE) 14 TeV $pp \rightarrow h \rightarrow 2n_1 \rightarrow 2n_D + 2\gamma_D \rightarrow 2n_D + 4\mu$ Fraction of events / 1 Ge\ 0.05 $m_h = 125 \text{ GeV}, m_{n_s} = 50 \text{ GeV}, m_{n_p} = 1 \text{ GeV}$ $m_{\gamma_{D}}$ = 20.0 GeV, $c\tau_{\gamma_{D}}$ = 0.00 mm 0.04 0.03 0.02 0.01 20 40 60 120 80 100 Mass of Fake μμ [GeV]