CMS Simulation (LHE) 14TeV TeV $pp \rightarrow h \rightarrow 2n_1 \rightarrow 2n_D + 2\gamma_D \rightarrow 2n_D + 4\mu$ Fraction of events / 0.1 GeV $m_h = 125 \text{ GeV}, m_{n_s} = 50 \text{ GeV}, m_{n_D} = 1 \text{ GeV}$ $m_{\gamma_{\Sigma}} = 20 \text{ GeV}, c\tau_{\gamma_{\Sigma}} = 10 \text{ mm}$ 10⁻¹ 10⁻² 10⁻³ 10⁻² 10^{-1} 10^2 10 Mass of Fake μμ [GeV]