CMS Simulation (LHE) 8 TeV Fraction of events / 0.1 GeV $pp \rightarrow h \rightarrow 2n_1 \rightarrow 2n_D + 2~\gamma_D \rightarrow 2n_D + 4\mu$ $m_h = 125 \text{ GeV}, m_{n_s} = 10 \text{ GeV}, m_{n_b} = 1 \text{ GeV}$ $m_{\gamma_{\Sigma}} = 0.250 \text{ GeV}, c \tau_{\gamma_{\Sigma}} = 0.5 \text{ mm}$ 10⁻¹ 10⁻² 10⁻³ 10^{-1} 10^2 Mass of Fake μμ [GeV]