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_{γ_D} = 20 GeV, $c\tau_{\gamma_D}$ = 1000 mm 10⁻¹ 10⁻² 10⁻³ 10⁻² 10^{-1} 10^2 10 Mass of Fake μμ [GeV]