CMS Simulation (LHE) 8 TeV Fraction of events / 0.1 rad $pp \rightarrow h \rightarrow 2n_1 \rightarrow 2n_D + 2~\gamma_D \rightarrow 2n_D + 4\mu$ 0.05 $m_h = 125 \text{ GeV}, m_{n_s} = 10 \text{ GeV}, m_{n_s} = 1 \text{ GeV}$ $m_{\gamma_{\Sigma}} = 0.250 \text{ GeV}, c\tau_{\gamma_{\Sigma}} = 0.2 \text{ mm}$ —1st μμ (leading p_T) 0.04 2nd μμ 0.03 0.02 0.01 φ of μμ [rad]