CMS Simulation (LHE) 8 TeV 0.14 Fraction of events / 1 Ge\ $pp \rightarrow h \rightarrow 2n_1 \rightarrow 2n_D + 2~\gamma_D \rightarrow 2n_D + 4\mu$ $m_h = 125 \text{ GeV}, m_{n_s} = 10 \text{ GeV}, m_{n_b} = 1 \text{ GeV}$ 0.12 $m_{\gamma_D} = 0.350 \text{ GeV}, c\tau_{\gamma_D} = 0.05 \text{ mm}$ 1st dark photon (leading p_T) 2nd dark photon 0.1 80.0 0.06 0.04 0.02 40 50 60 80 90 30