CMS Simulation (LHE) 8 TeV Fraction of events / 1 Ge\ 0.09 $pp \rightarrow h \rightarrow 2n_1 \rightarrow 2n_D + 2~\gamma_D \rightarrow 2n_D + 4\mu$ $m_h = 125 \text{ GeV}, m_{n_s} = 10 \text{ GeV}, m_{n_b} = 1 \text{ GeV}$ 80.0 m_{γ_D} = 2.000 GeV, $c\tau_{\gamma_D}$ = 0.00 mm 1st dark photon (leading p_T) 0.07 2nd dark photon 0.06 0.05 0.04 0.03 0.02 0.01 40 50 80 30 60 90