## CMS Simulation (LHE) 8 TeV Eraction of events / 0.15 Laction of events / 0.015 0.035 0.025 0.015 $pp \rightarrow h \rightarrow 2n_{1} \rightarrow 2n_{D} + 2~\gamma_{D} \rightarrow 2n_{D} + 4\mu$ $m_h = 125 \text{ GeV}, m_{n_s} = 10 \text{ GeV}, m_{n_b} = 1 \text{ GeV}$ $m_{\gamma_D} = 0.550 \text{ GeV}, c\tau_{\gamma_D} = 2. \text{ mm}$ 1st dark photon (leading p<sub>T</sub>) 2nd dark photon 0.01 0.005