CMS Simulation (LHE) 14TeV TeV $|pp| \rightarrow |h \rightarrow 2h_1 \rightarrow |2h_D + 2\gamma_D \rightarrow 2h_D + 4\mu|$ Fraction of events / 1 GeV $m_h = 125 \text{ GeV}, m_{n_1} = 10 \text{ GeV}, m_{n_D} = 1 \text{ GeV}$ $m_{\gamma_{_{D}}}$ = 20 GeV, $c\tau_{\gamma_{_{D}}}$ = 0 mm 8.0 0.6 0.4 0.2 5 3 6 8 of h [GeV]