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 $\rm m_h = 125~GeV, \, m_{n_1} = 50~GeV, \, m_{n_D} = 1~GeV$ m_{γ_D} = 20 GeV, $c\tau_{\gamma_D}$ = 1000 mm 8.0 0.6 0.4 0.2 5 3 6 8 of h [GeV]