CMS Simulation (LHE) 13 TeV $pp \rightarrow h \rightarrow 2h_1 \rightarrow 2h_D + 2\gamma_D \rightarrow 2h_D + 4\mu$ Fraction of events / 1 GeV 0.35 $m_h = 125 \text{ GeV}, m_{n_s} = 10 \text{ GeV}, m_{n_D} = 1 \text{ GeV}$ $m_{\gamma_D} = 58 \text{ GeV}, c\tau_{\gamma_D} = 100 \text{ mm}$ 0.3 0.25 0.2 0.15 0.1 0.05 20 30 40 50 90 60 80 $MET = \sum \overrightarrow{p_{+}} [GeV]$