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 Ge\ 0.45  $m_h = 125 \text{ GeV}, m_{n_s} = 60 \text{ GeV}, m_{n_p} = 1 \text{ GeV}$  $m_{\gamma_D} = 58 \text{ GeV}, c\tau_{\gamma_D} = 100 \text{ mm}$ 0.4 —1st n<sub>D</sub> (leading p<sub>T</sub>) 0.35 2nd n<sub>D</sub> 0.3 0.25 0.2 0.15 0.1 0.05 20 40 120 60 80 100 of n [GeV]