## CMS Simulation (LHE) 13 TeV $pp \xrightarrow{} h \xrightarrow{} 2h_1 \xrightarrow{} 2h_D \xrightarrow{} + 2 \xrightarrow{} \gamma_D \xrightarrow{} 2h_D \xrightarrow{} + 4\mu$ 0.045 $m_h = 125 \text{ GeV}, m_{n_s} = 10 \text{ GeV}, m_{n_n} = 1 \text{ GeV}$ $m_{\gamma_2} = 0.4 \text{ GeV}, c\tau_{\gamma_2} = 0. \text{ mm}$ **Exaction of events / 1**Laction of events / 1 0.035 0.025 0.015 0.01 —1st n<sub>D</sub> (leading p<sub>T</sub>) 2nd n<sub>D</sub> 0.01 0.005 20 40 60 80 100 120