CMS Simulation (LHE) 14 TeV $pp \xrightarrow{l} h \xrightarrow{l} 2h_1 \xrightarrow{l} 2h_D \xrightarrow{l} + 2 \xrightarrow{l} 2h_D \xrightarrow{l} + 4\mu$ Fraction of events / 1 GeV $m_h = 125 \text{ GeV}, m_{n_s} = 50 \text{ GeV}, m_{n_D} = 1 \text{ GeV}$ 0.09 $m_{\gamma_{R}} = 20 \text{ GeV}, c\tau_{\gamma_{R}} = 0 \text{ mm}$ 0.08 —1st n_D (leading p_T) 0.07 2nd n_D 0.06 0.05 0.04 0.03 0.02 0.01 20 120 40 100 60 80 p_{T} of n_{D} [GeV]