CMS Simulation (LHE) 14 TeV $pp \xrightarrow{l} h \xrightarrow{l} 2h_1 \xrightarrow{l} 2h_D + 2h_D + 2h_D + 4\mu$ $m_h = 125 \text{ GeV}, m_{n_s} = 50 \text{ GeV}, m_{n_p} = 1 \text{ GeV}$ $m_{\gamma_{R}} = 20 \text{ GeV}, c\tau_{\gamma_{R}} = 0 \text{ mm}$ —1st n_D (leading p_T) 2nd n_D 40 20 60 80 100 120

p of n [GeV]

0.05

0.04

0.03

0.02

0.01

Fraction of events / 1 Ge\