CMS Simulation (LHE) 8 TeV $pp \rightarrow h \rightarrow 2n_1 \rightarrow 2n_D + 2~\gamma_D \rightarrow 2n_D + 4\mu$ $m_h = 125 \text{ GeV}, m_{n_s} = 10 \text{ GeV}, m_{n_b} = 1 \text{ GeV}$ $m_{\gamma_{0}} = 0.550 \text{ GeV}, c\tau_{\gamma_{0}} = 0.5 \text{ mm}$ —1st n_D (leading p_T) 2nd n_D

40

60

80

100

p of n [GeV]

120

20

0.045

Fraction of events / 0.035 0.035 0.025 0.015 0.015

0.01

0.005