CMS Simulation (LHE) 13 TeV $pp \rightarrow h \rightarrow 2n_1 \rightarrow 2n_D + 2\gamma_D \rightarrow 2n_D + 4\mu$ $m_h = 125 \text{ GeV}, m_{n_s} = 10 \text{ GeV}, m_{n_p} = 1 \text{ GeV}$ $m_{\gamma_2} = 0.25 \text{ GeV}, c\tau_{\gamma_2} = 0.00 \text{ mm}$ 1st muon (leading p_T) 2nd muon 3rd muon 4th muon

Fraction of events / 1 GeV

0.1

80.0

0.06

0.04

0.02

