CMS Simulation (LHE) 13 TeV $pp \rightarrow h \rightarrow 2n_1 \rightarrow 2n_D + 2\gamma_D \rightarrow 2n_D + 4\mu$ $m_h = 125 \text{ GeV}, m_{n_s} = 10 \text{ GeV}, m_{n_h} = 1 \text{ GeV}$ $m_{\gamma_2} = 0.4 \text{ GeV}, c\tau_{\gamma_2} = 20 \text{ mm}$ 1st muon (leading p_T) 2nd muon 3rd muon 4th muon

Fraction of events / 1 Ge\

0.14

0.12

0.1

0.08

0.06

0.04

0.02

