CMS Simulation (LHE) 13 TeV $pp \rightarrow h \rightarrow 2n_1 \rightarrow 2h_D + 2\gamma_D \rightarrow 2n_D + 4\mu$ $m_h = 125 \text{ GeV}, m_{n_a} = 10 \text{ GeV}, m_{n_b} = 1 \text{ GeV}$ $m_{\gamma_{D}} = 5 \text{ GeV}, c\tau_{\gamma_{D}} = 1 \text{ mm}$ 1st muon (leading p_T) 2nd muon 3rd muon - · - 4th muon

0.03

events / 0.1

50.015

0.01

0.005

Fraction

