CMS Simulation (LHE) 13 TeV 0.22 $pp \rightarrow h \rightarrow 2n_1 \rightarrow 2n_D + 2\gamma_D \rightarrow 2n_D + 4\mu'$ GeV $m_h = 125 \text{ GeV}, m_{n_s} = 10 \text{ GeV}, m_{n_p} = 1 \text{ GeV}$ 0.2 $m_{\gamma_2} = 8.5 \text{ GeV}, c\tau_{\gamma_2} = 2 \text{ mm}$ Fraction of events / 1 0.18 - 1st muon (leading p_T) - 2nd muon - 3rd muon 0.16 4th muon 0.14 0.12 0.1 80.0 0.06 0.04 0.02 40 20 60 120 100 80 of μ [GeV]