CMS Simulation (LHE) 13 TeV 0.09 $pp \rightarrow h \rightarrow 2n_1 \rightarrow 2n_D + 2\gamma_D \rightarrow 2n_D + 4\mu$ Fraction of events / 1 GeV $m_h = 125 \text{ GeV}, m_{n_s} = 10 \text{ GeV}, m_{n_D} = 1 \text{ GeV}$ 80.0 $m_{\gamma_2} = 8.5 \text{ GeV}, c\tau_{\gamma_2} = 2 \text{ mm}$ - 1st muon (leading p_T) - 2nd muon - 3rd muon 0.07 4th muon 0.06 0.05 0.04 0.03 0.02 0.01 20 80 120 40 60 100 p of μ [GeV]