CMS Simulation (LHE) 13 TeV $pp \rightarrow h \rightarrow 2n_1 \rightarrow 2n_D + 2\gamma_D \rightarrow 2n_D + 4\mu$ $m_h = 125 \text{ GeV}, m_{n_s} = 10 \text{ GeV}, m_{n_h} = 1 \text{ GeV}$ $m_{\gamma_{2}} = 0.4 \text{ GeV}, c\tau_{\gamma_{2}} = 0. \text{ mm}$ — 1st muon (leading p_⊤) --- 2nd muon ---- 1st electron 2nd electron

Fraction of events / 1 0.1 80.0 0.06 0.04 0.02 40 20 120 60 100 80 of Leptons [GeV]

0.22

0.2

0.18

0.16

0.14

0.12