## CMS Simulation (LHE) 8 TeV Fraction of events / 1 Ge\ 0.22 $pp \rightarrow h \rightarrow 2n_1 \rightarrow 2n_D + 2~\gamma_D \rightarrow 2n_D + 4\mu$ $m_h = 125 \text{ GeV}, m_{n_s} = 10 \text{ GeV}, m_{n_s} = 1 \text{ GeV}$ 0.2 $m_{\gamma_{D}} = 0.275 \text{ GeV}, c\tau_{\gamma_{D}} = 0.05 \text{ mm}$ - 1st muon (leading p<sub>\_</sub>) - 2nd muon 0.18 ..... 3rd muon - · - 4th muon 0.16 0.14 0.12 0.1 0.08 0.06 0.04 0.02 120 20 40 60 80 100 of μ [GeV]