## CMS Simulation (LHE) 8 TeV 0.35 Fraction of events / 1 Ge\ $pp \rightarrow h \rightarrow 2n_1 \rightarrow 2n_D + 2~\gamma_D \rightarrow 2n_D + 4\mu$ $m_h = 125 \text{ GeV}, m_{n_s} = 10 \text{ GeV}, m_{n_s} = 1 \text{ GeV}$ $m_{\gamma_{_{\!\scriptscriptstyle \perp}}} = 0.400 \; \text{GeV}, \; c\tau_{\gamma_{_{\scriptscriptstyle \perp}}} = 0.00 \; \text{mm}$ 0.3 — 1st muon (leading p<sub>\_</sub>) --- 2nd muon ---- 3rd muon 0.25 4th muon 0.2 0.15 0.1 0.05 20 40 60 100 120 80 of μ [GeV]