## CMS Simulation (LHE) 8 TeV 0.18 Fraction of events / 1 GeV $pp \rightarrow h \rightarrow 2n_1 \rightarrow 2n_D + 2~\gamma_D \rightarrow 2n_D + 4\mu$ $m_h = 125 \text{ GeV}, m_{n_s} = 10 \text{ GeV}, m_{n_s} = 1 \text{ GeV}$ 0.16 $m_{\gamma_0}$ = 1.000 GeV, $c\tau_{\gamma_0}$ = 0.5 mm — 1st muon (leading p<sub>T</sub>) --- 2nd muon ..... 3rd muon 0.14 4th muon 0.12 $0.1^{\circ}$ 80.0 0.06 0.04 0.02 20 40 120 60 80 100 p of $\mu$ [GeV]