CMS Simulation (LHE) 8 TeV GeV $pp \rightarrow h \rightarrow 2n_1 \rightarrow 2n_D + 2~\gamma_D \rightarrow 2n_D + 4\mu$ 0.35 $m_h = 125 \text{ GeV}, m_{n_s} = 10 \text{ GeV}, m_{n_s} = 1 \text{ GeV}$ Fraction of events / 1 m_{γ_0} = 0.550 GeV, $c\tau_{\gamma_0}$ = 0.2 mm — 1st muon (leading p_T) --- 2nd muon --- 3rd muon 0.3 4th muon 0.25 0.15 0.1 0.05 20 120 40 60 100 80 of μ [GeV]