CMS Simulation (LHE) 14TeV TeV 1.6 $\overrightarrow{pp} \rightarrow \overrightarrow{h} \rightarrow 2\overrightarrow{n}_{1} \rightarrow 2\overrightarrow{n}_{D} + 2\overrightarrow{\gamma}_{D} \rightarrow 2\overrightarrow{n}_{D} + 4\mu$ Fraction of events / 0.1 GeV $m_h = 125 \text{ GeV}, m_{n_s} = 50 \text{ GeV}, m_{n_D} = 1 \text{ GeV}$ $m_{\gamma_{_{\!\scriptscriptstyle D}}}$ = 20 GeV, $c\tau_{\gamma_{_{\!\scriptscriptstyle D}}}$ = 10 mm 1.4 1.2 8.0 0.6 0.4 0.2 2 4 8 10 6 12 14 16 18 Mass of n₁ [GeV]