CMS Simulation (LHE) 8 TeV Fraction of events / 0.1 $pp \rightarrow h \rightarrow 2n_1 \rightarrow 2n_D + 2~\gamma_D \rightarrow 2n_D + 4\mu$ 0.04 $m_h = 125 \text{ GeV}, m_{n_s} = 10 \text{ GeV}, m_{n_s} = 1 \text{ GeV}$ $m_{\gamma_{\scriptscriptstyle D}}$ = 0.400 GeV, $c\tau_{\gamma_{\scriptscriptstyle D}}$ = 0.2 mm 1st muon (leading p_T)2nd muon3rd muon - · - 4th muon 0.03 0.02 0.01

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