

CMS Simulation (LHE) 13 TeV

Fraction of events / 1 GeV

$pp \rightarrow h \rightarrow 2n_1 \rightarrow 2n_D + 2\gamma_D \rightarrow 2n_D + 4\mu$

$m_h = 125 \text{ GeV}, m_{n_1} = 10 \text{ GeV}, m_{n_D} = 1 \text{ GeV}$

$m_{\gamma_D} = 8.5 \text{ GeV}, c\tau_{\gamma_D} = 20 \text{ mm}$

0.22

0.2

0.18

0.16

0.14

0.12

0.1

0.08

0.06

0.04

0.02

0

0

10

20

30

40

50

60

70

80

90

100

$\text{MET} = \sum_{n_D} \vec{p}_T [\text{GeV}]$

n_D