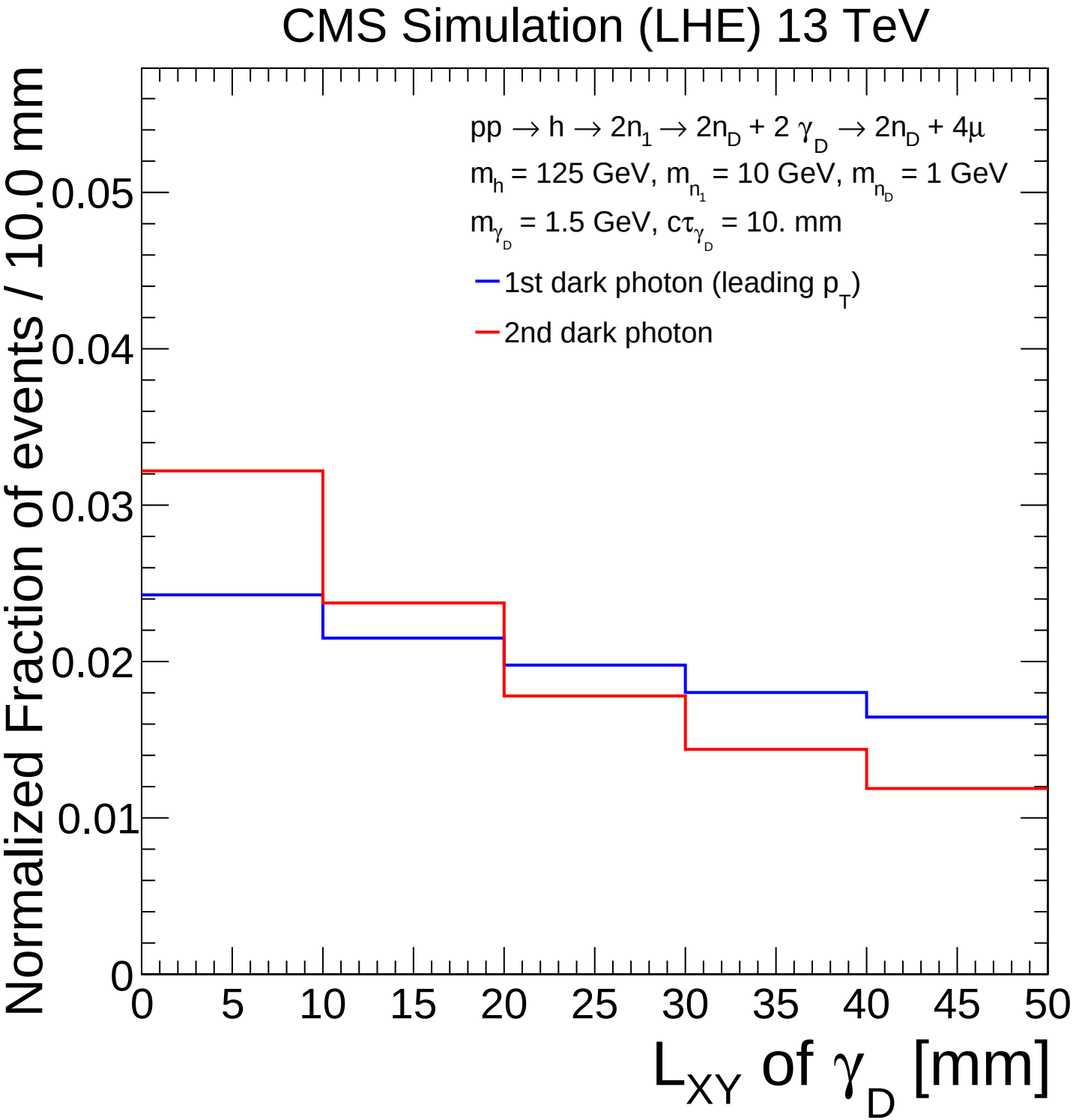
CMS Simulation (LHE) 13 TeV
$pp \to h \to 2n_1 \to 2n_D + 2\,\gamma_D \to 2n_D + 4\mu$
$m_h$ = 125 GeV, $m_{n_1}$ = 10 GeV, $m_{n_D}$ = 1 GeV
$m_{\gamma_D}$ = 1.5 GeV, $c\tau_{\gamma_D}$ = 10. mm
1st dark photon (leading $p_T$)
2nd dark photon
Normalized Fraction of events / 10.0 mm
0
0.01
0.02
0.03
0.04
0.05
0
5
10
15
20
25
30
35
40
45
50
$L_{XY}$ of $\gamma_D$ [mm]