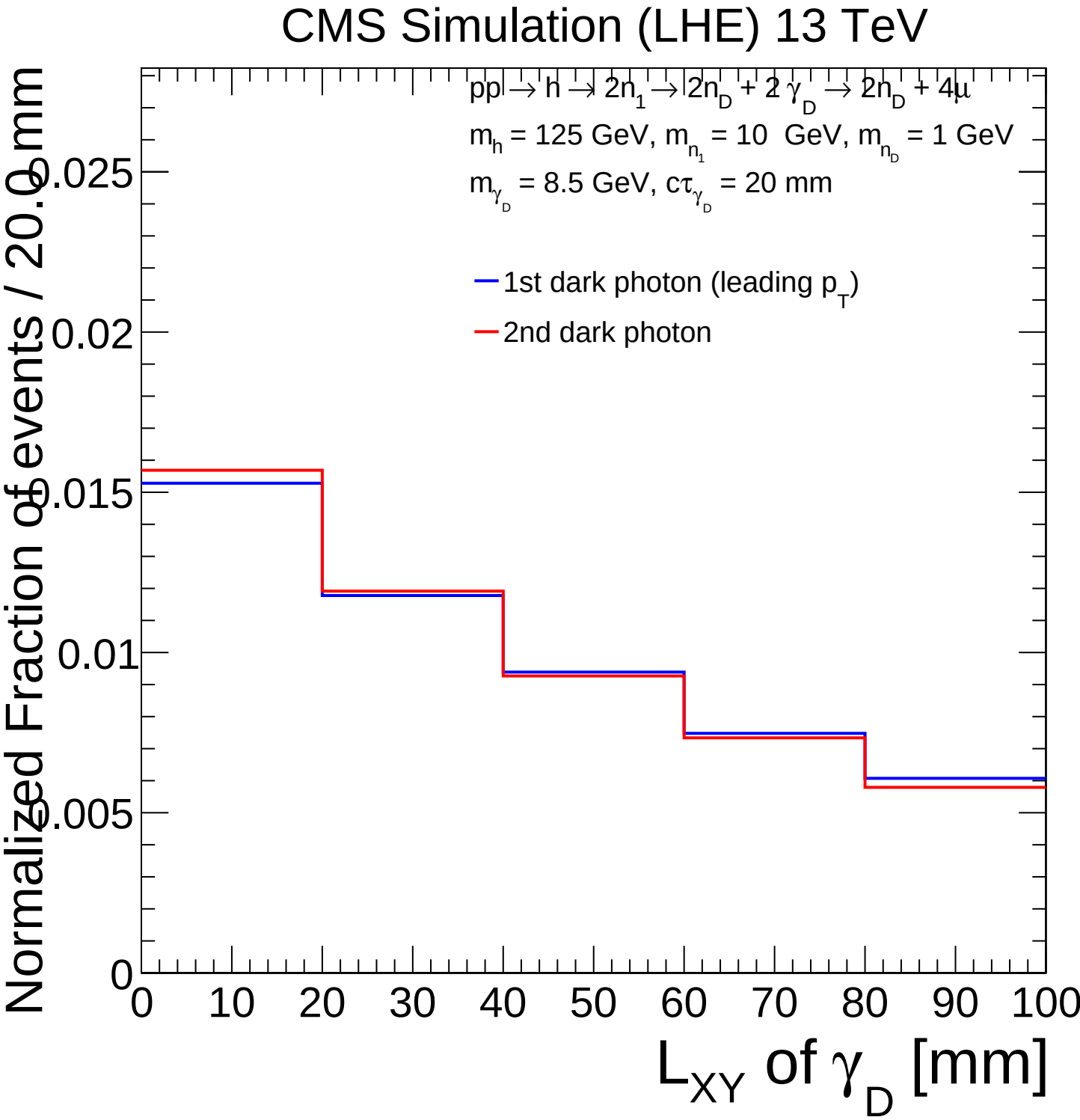
CMS Simulation (LHE) 13 TeV
$pp \to h \to 2n_1 \to 2n_D + 2\gamma_D \to 2n_D + 4\mu$
$m_h$ = 125 GeV, $m_{n_1}$ = 10 GeV, $m_{n_D}$ = 1 GeV
$m_{\gamma_D}$ = 8.5 GeV, $c\tau_{\gamma_D}$ = 20 mm
1st dark photon (leading $p_T$)
2nd dark photon
Normalized Fraction of events / 20.0 mm
0
0.005
0.01
0.015
0.02
0.025
0
10
20
30
40
50
60
70
80
90
100
$L_{XY}$ of $\gamma_D$ [mm]