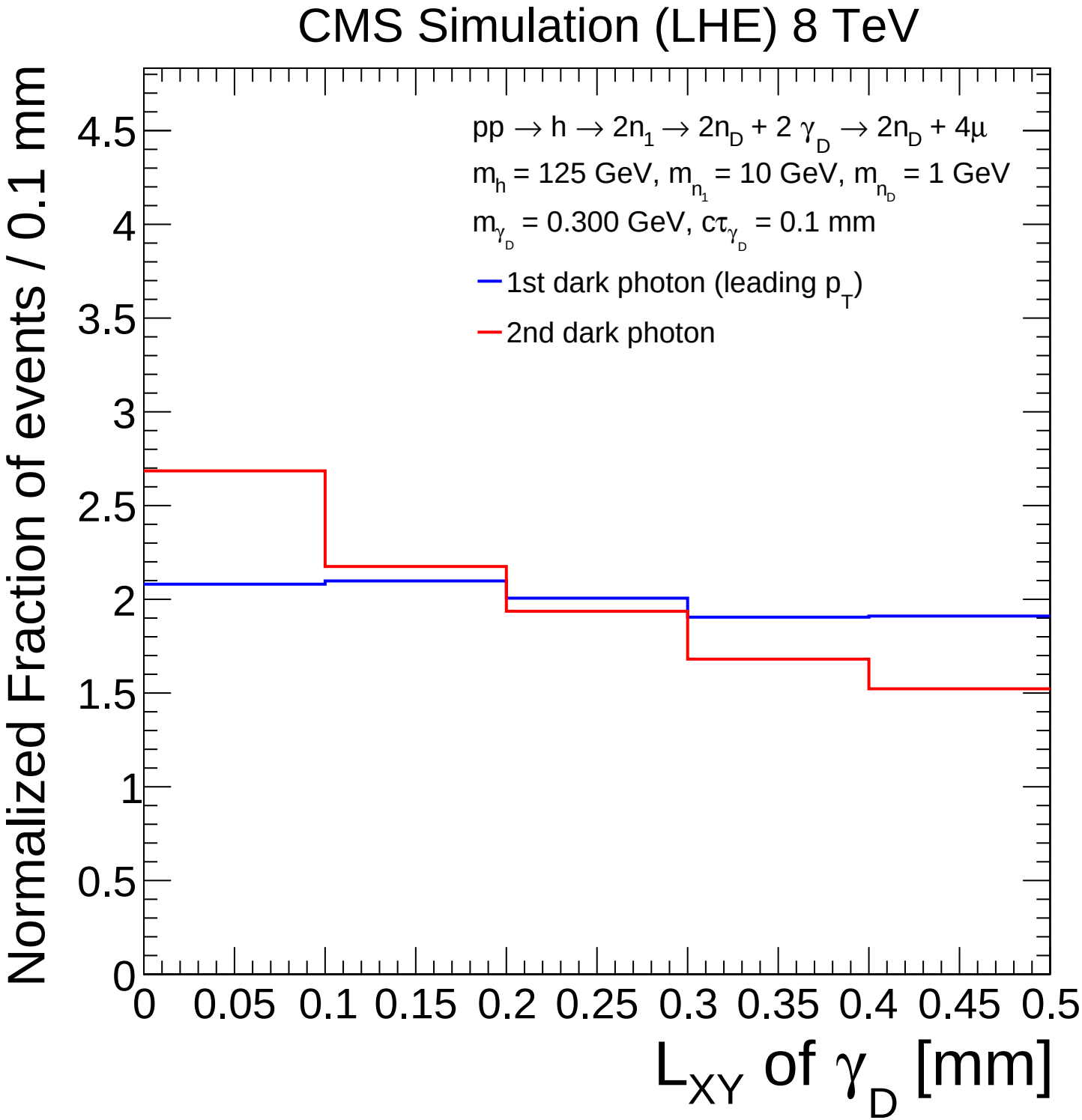
CMS Simulation (LHE) 8 TeV
$pp \to h \to 2n_1 \to 2n_D + 2\,\gamma_D \to 2n_D + 4\mu$
m_h = 125 GeV, m_{n_1} = 10 GeV, m_{n_D} = 1 GeV
m_{γ_D} = 0.300 GeV, $c\tau_{\gamma_D}$ = 0.1 mm
1st dark photon (leading p_T)
2nd dark photon
Normalized Fraction of events / 0.1 mm
L_{XY} of γ_D [mm]
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
0.45
0.5