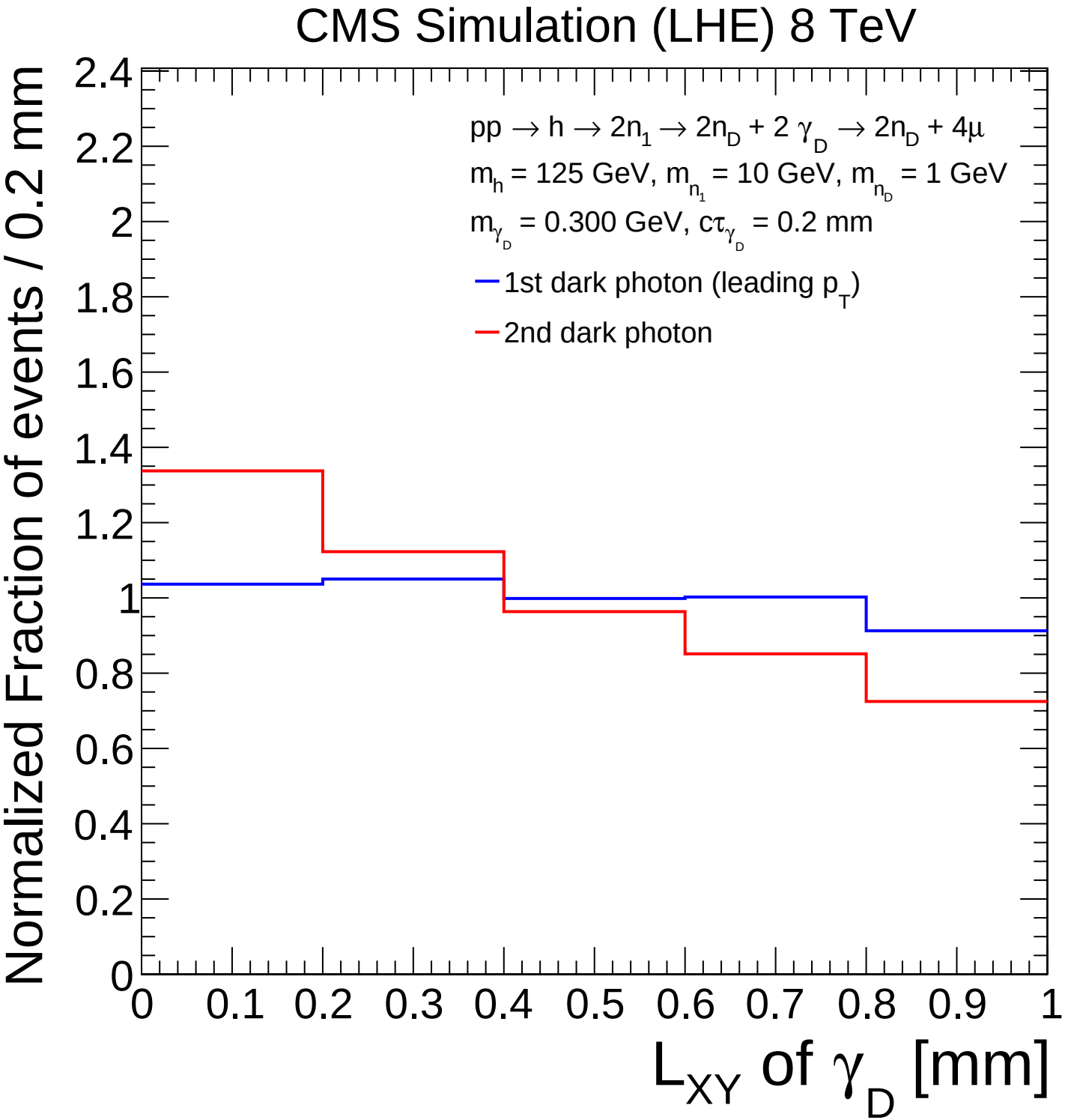
CMS Simulation (LHE) 8 TeV
$pp \to h \to 2n_1 \to 2n_D + 2\,\gamma_D \to 2n_D + 4\mu$
m_h = 125 GeV, m_{n_1} = 10 GeV, m_{n_D} = 1 GeV
m_{γ_D} = 0.300 GeV, $c\tau_{\gamma_D}$ = 0.2 mm
1st dark photon (leading p_T)
2nd dark photon
Normalized Fraction of events / 0.2 mm
L_{XY} of γ_D [mm]
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
2.2
2.4
0.1
0.3
0.5
0.7
0.9