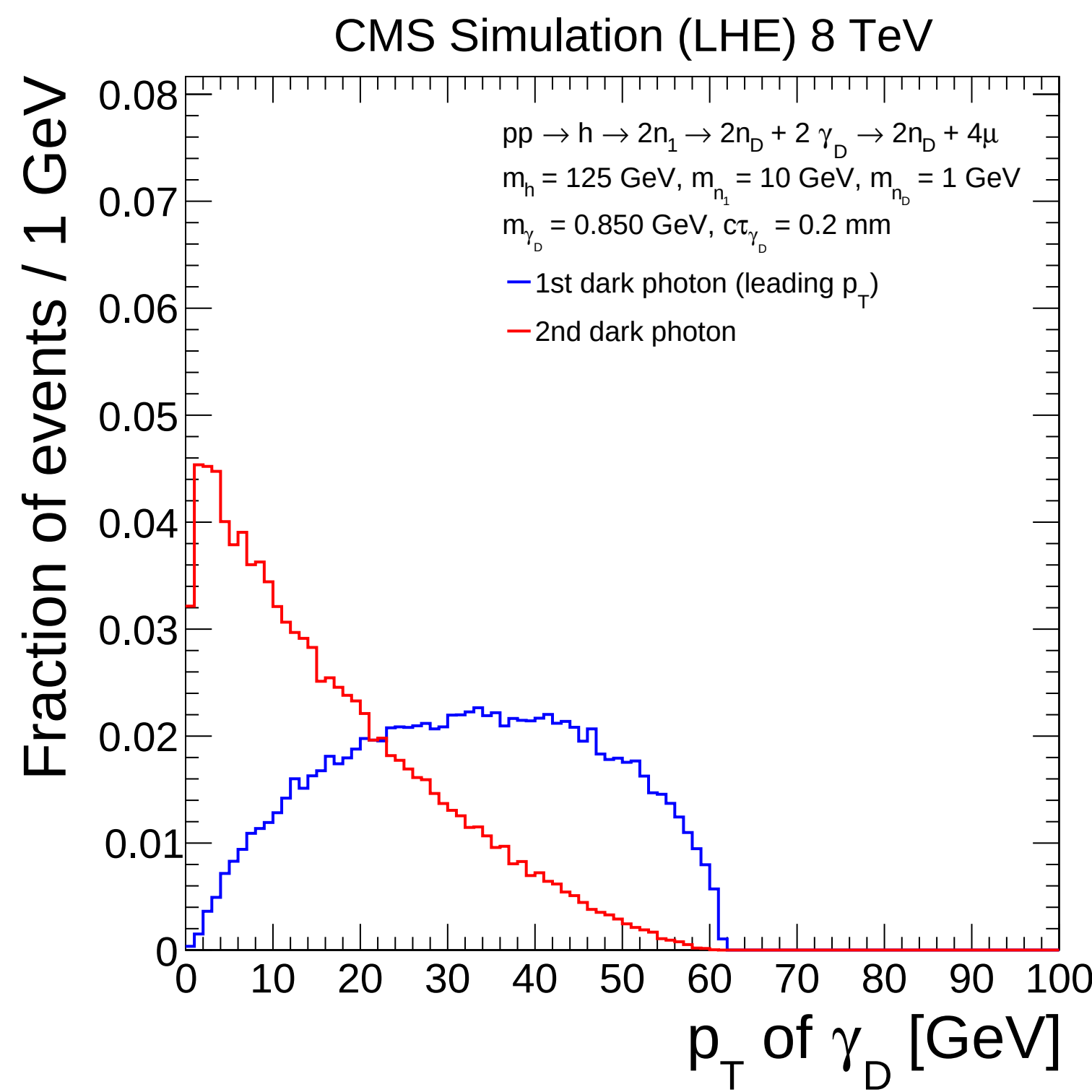
CMS Simulation (LHE) 8 TeV
$pp \to h \to 2n_1 \to 2n_D + 2\,\gamma_D \to 2n_D + 4\mu$
$m_h$ = 125 GeV, $m_{n_1}$ = 10 GeV, $m_{n_D}$ = 1 GeV
$m_{\gamma_D}$ = 0.850 GeV, $c\tau_{\gamma_D}$ = 0.2 mm
1st dark photon (leading $p_T$)
2nd dark photon
Fraction of events / 1 GeV
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0
10
20
30
40
50
60
70
80
90
100
$p_T$ of $\gamma_D$ [GeV]