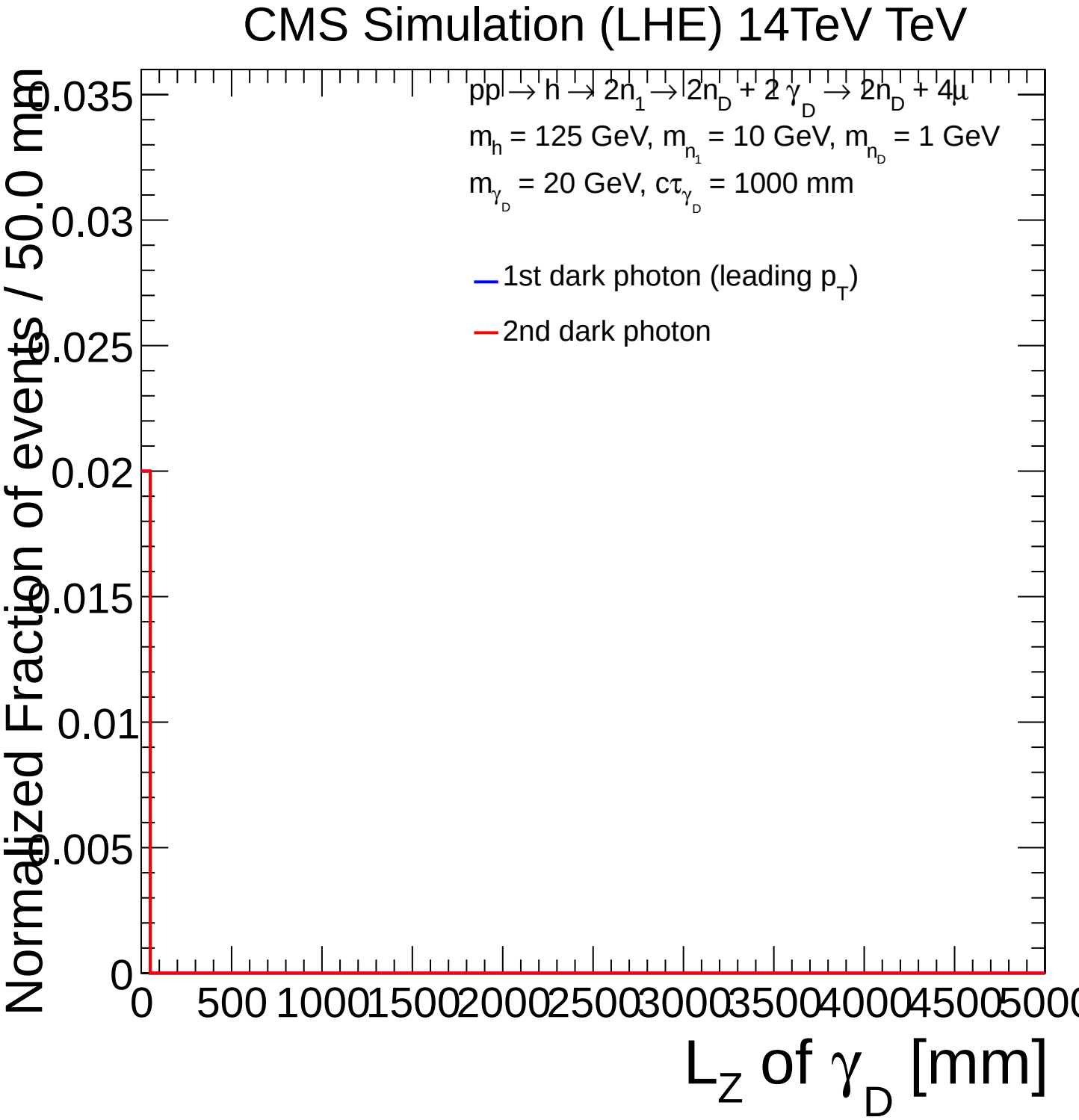
CMS Simulation (LHE) 14TeV TeV
pp → h → 2n1 → 2nD + 2 γD → 2nD + 4μ
mh = 125 GeV, mn1 = 10 GeV, mnD = 1 GeV
mγD = 20 GeV, cτγD = 1000 mm
1st dark photon (leading pT)
2nd dark photon
Normalized Fraction of events / 50.0 mm
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
LZ of γD [mm]