CMS Simulation (LHE) 14 TeV = 125 GeV, $m_{n_1} = 50$ GeV, $m_{n_2} = 1$ GeV _ = 20 GeV, $cτ_{\gamma} = 1000$ mm **1st dar**k photon (leading p_{T}) and dark photon 30 50 40 60

p of γ_{Γ} [GeV]

Fraction of events / 1 Ge/ 0.035 10.00 10.00 10.01

0.005