

$$\int L dt = 19.7 \text{ fb}^{-1}$$

+ 2012 data
 $t\bar{t} + \gamma$
 $t\bar{t} 0l$
 $t\bar{t} 1l$
 $t\bar{t} 2l$
 Single Top
 Z+Jets
 Z+ γ
 WW/ZZ/WZ
 W+Jets
 W+ γ
 QCD

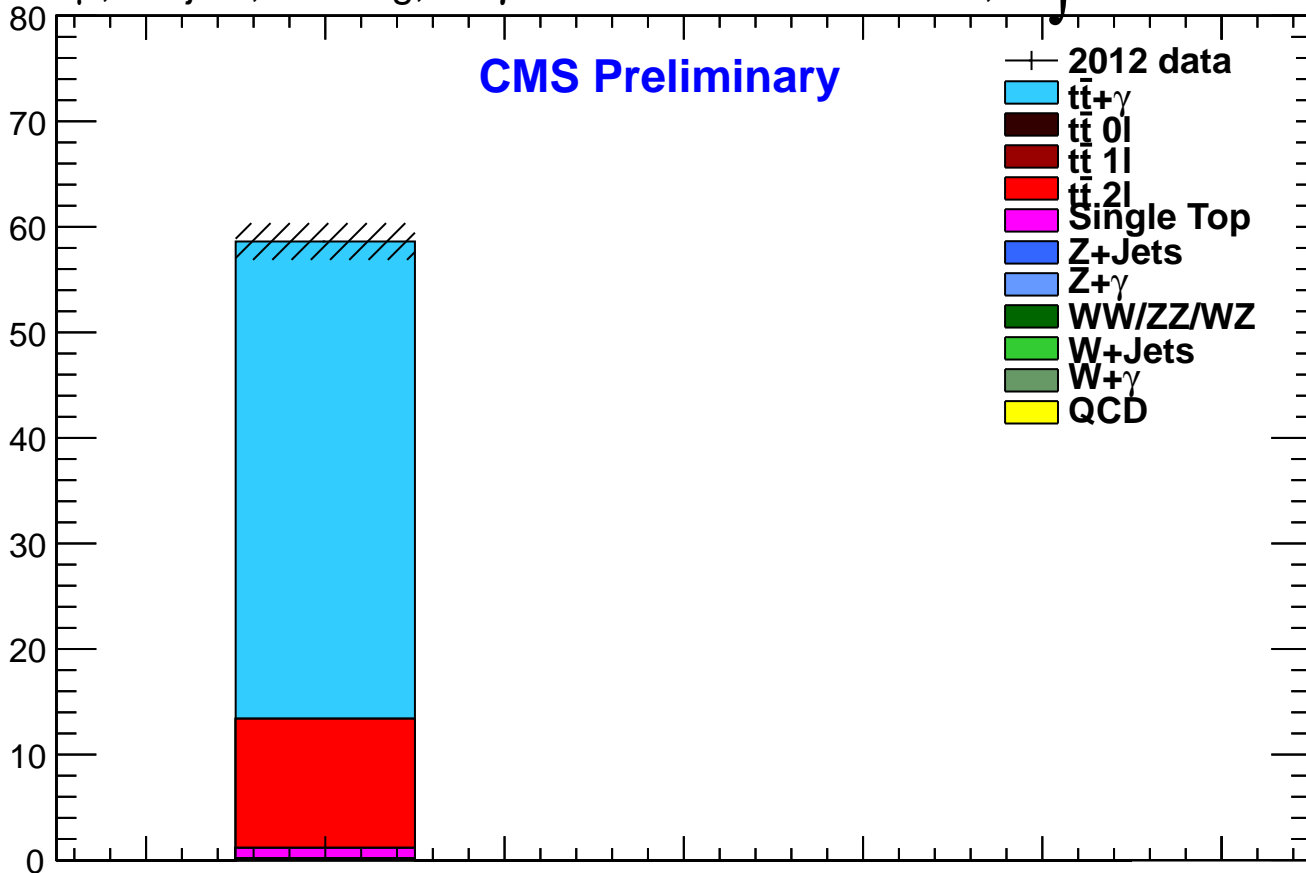


Figure 1 shows a plot of the number of gamma rays, $N(\gamma)$, on the y-axis (ranging from 0 to 2) against the number of particles, N , on the x-axis (ranging from 0 to 5.5). A horizontal dashed line is drawn at $N(\gamma) = 1$. Red diagonal lines are scattered around this dashed line for N values between approximately 0.5 and 1.5, indicating fluctuations in the number of gamma rays for a given number of particles.