Observed and background contributions for $\gamma_T$ in bins of $p_T$. The CMS collaboration used a dataset of 35.9 fb$^{-1}$ at 13 TeV. The plot shows the number of observed events compared to the background prediction for different bins of $p_T$. The observed data points are indicated by black dots, while the different background contributions are shown in various colors. The plot includes contributions from $t\bar{t}\gamma$, $WW\gamma$, $WZ\gamma$, $e\rightarrow\gamma$ fakes, $j\rightarrow\gamma$ fakes, fake leptons, and $W\gamma/Z\gamma$. The $p_T$ range is shown on the x-axis, and the number of events is shown on the y-axis. The CMS Preliminary results are shown with black dots, and the uncertainties are indicated by the shaded band.