CMS Preliminary 2.3 fb$^{-1}$ (13 TeV)

The figure shows a plot of the differential cross-section $\frac{1}{\sigma} \frac{d\sigma}{dp_T(t_h)}$ in GeV$^{-1}$ as a function of $p_T(t_h)$ in GeV, with $t_h$ being the transverse momentum of the top quark. The plot includes data from CMS and theoretical predictions from Powheg v2 with different $h_{damp}$ values:

- $h_{damp} = 0$
- $h_{damp} = 1.581 m_{top}$
- $h_{damp} = 0.9 m_{top}$
- $h_{damp} = 2.2 m_{top}$

The CMS Data is represented by black dots, while the theoretical predictions are shown with different colored lines. The data points are compared to the theoretical predictions, with the ratio $\frac{\text{theory}}{\text{data}}$ shown in the lower part of the plot.