The CMS Preliminary report presents data on the production and decay of the Higgs boson ($H$) in various production channels. The figure shows the ratio of the measured cross-sections ($\sigma$) to the Standard Model prediction ($\sigma_{SM}$) across different production modes:

- $ggH, b\bar{b}H$: 0.96$^{+0.11}_{-0.11}$
- VBF: 0.62$^{+0.47}_{-0.36}$
- VH: 1.13$^{+0.90}_{-0.72}$
- t\bar{t}H, tH: 0.13$^{+0.92}_{-0.13}$

The CMS dataset includes 137.1 fb$^{-1}$ at 13 TeV. The Higgs boson decays to $ZZ \rightarrow 4l$, with a measured cross-section of 5.55 fb.