



$$\begin{array}{ccc}
 \hat{U}_T & \xrightarrow{\hat{T}} & \hat{U}_T \\
 \downarrow H_2 & & \downarrow H_2 \\
 H_2(\hat{U}_T) & \xrightarrow{G_T} & H_2(\hat{U}_T)
 \end{array}$$