

g_1
 g_2
 \vdots
 $g_{|G|}$

$\left[\begin{array}{c} \\ \\ \\ \end{array} \right]$

g

\star

h_1
 h_2
 \vdots
 $h_{|G|}$

$\left[\begin{array}{c} \\ \\ \\ \end{array} \right]$

h

$\xrightarrow{\mathcal{F}_M}$

$\hat{g}(\rho_1)$

$\hat{g}(\rho_2)$

$\hat{g}(\rho_3)$

\cdot

$\hat{h}(\rho_1)$

$\hat{h}(\rho_2)$

$\hat{h}(\rho_3)$

\dagger