

$$A_v^g \begin{array}{c} \xrightarrow{|x\rangle} v \xrightarrow{|z\rangle} \\ \uparrow |y\rangle \\ \downarrow |u\rangle \end{array} = \begin{array}{c} \xrightarrow{|xg^{-1}\rangle} v \xrightarrow{|gz\rangle} \\ \uparrow |gy\rangle \\ \downarrow |gu\rangle \end{array}$$

$$B_s^h \begin{array}{c} \begin{array}{c} |x\rangle \downarrow \\ \begin{array}{c} \leftarrow |y\rangle \\ \leftarrow |z\rangle \end{array} \\ v \begin{array}{c} \rightarrow |u\rangle \end{array} \end{array} \xrightarrow{f} \begin{array}{c} \begin{array}{c} |x\rangle \downarrow \\ \begin{array}{c} \leftarrow |y\rangle \\ \leftarrow |z\rangle \end{array} \\ v \begin{array}{c} \rightarrow |u\rangle \end{array} \end{array} = \delta_{h,uz^{-1}yx} \begin{array}{c} \begin{array}{c} |x\rangle \downarrow \\ \begin{array}{c} \leftarrow |y\rangle \\ \leftarrow |z\rangle \end{array} \\ v \begin{array}{c} \rightarrow |u\rangle \end{array} \end{array}$$