$$f_2 = \left[\begin{array}{c|c} f\text{⧗}1_R & 0 \\ \hline 0 & F\text{⧗}1_L \end{array}\right]$$

$$f \in {}^{\hbar}\triangle_{\infty}\mathbb{C}: \quad F \in {}^{\hbar}\triangle_{\infty}^{2}\mathbb{C}_2$$

$$f_i \in {}^{\hbar}\triangle_{\infty}\mathbb{C} \Rightarrow \left[\begin{array}{c|c} f_R\text{⧗}1_R & 0 \\ \hline 0 & f_L\text{⧗}1_L \end{array}\right] \in\ni \left[\begin{array}{c|c} 0\text{⧗}1_R & 0 \\ \hline 0 & 1\text{⧗}1_L \end{array}\right] = p$$

$$\left[\begin{array}{cc|cc} 1 & 0 & & \\ 0 & 1 & \multicolumn{2}{c}{0} \\ \hline \multicolumn{2}{c|}{0} & 0 & 0 \\ & & 0 & 1 \end{array}\right] \left[\begin{array}{cc|cc} f_R^1\text{⧗}1_R & 0 & f_R^2\text{⧗}1_R & 0 \\ 0 & f_L^1\text{⧗}1_L & 0 & f_L^2\text{⧗}1_L \\ \hline f_R^3\text{⧗}1_R & 0 & f_R^4\text{⧗}1_R & 0 \\ 0 & f_L^3\text{⧗}1_L & 0 & f_L^4\text{⧗}1_L \end{array}\right] \left[\begin{array}{cc|c} 1 & 0 & \\ 0 & 1 &] \\ \hline \multicolumn{2}{c|}{0} & 0 \end{array}\right] \begin{array}{cc} 0 & 0 \\ 0 & 1 \end{array}$$

$$= \left[\begin{array}{cc|cc} f_R^1\text{⧗}1_R & 0 & 0 & 0 \\ 0 & f_L^1\text{⧗}1_L & 0 & f_L^2\text{⧗}1_L \\ \hline 0 & 0 & f_R^4\text{⧗}1_R & 0 \\ 0 & f_L^3\text{⧗}1_L & 0 & f_L^4\text{⧗}1_L \end{array}\right] = \left[\begin{array}{c|c} f_R^1\text{⧗}1_R & 0 \\ \hline 0 & \left[\begin{array}{c|c} f_L^1 & f_L^2 \\ \hline f_L^3 & f_L^4 \end{array}\right]\text{⧗}1_L \end{array}\right]$$

$$f = f_R^1: \quad F = \left[\begin{array}{c|c} f_L^1 & f_L^2 \\ \hline f_L^3 & f_L^4 \end{array}\right]$$