

$$\mathbb{C}_2^{\mathfrak{U}} \Rightarrow \frac{\alpha \mid \beta}{-\bar{\beta} \mid -\alpha}$$

$$\left\{ \begin{array}{l} A_1 = \frac{1 \ 0 \mid i}{2 \ i \ 0} \\ A_2 = \frac{1 \ 0 \mid -1}{2 \ 1 \ 0} \\ A_3 = \frac{1 \ i \ 0}{2 \ 0 \ -i} \end{array} \right.$$

$$A_i \times A_j = A_k$$

$$\frac{\alpha \mid \beta}{-\bar{\beta} \mid -\alpha} \times \frac{\alpha' \mid \beta'}{-\bar{\beta}' \mid -\alpha'} = \frac{\bar{\beta}\beta' - \beta\bar{\beta}'}{2(\alpha\bar{\beta}' - \alpha'\bar{\beta})} \mid \frac{2(\alpha\beta' - \beta\alpha')}{\beta\bar{\beta}' - \bar{\beta}\beta'}$$