$$^{2}\mathbb{C}_{2} \ni \begin{array}{c|c} a & b \\ \hline \bar{b} & d \end{array} = \frac{1}{2}\left(a+d{:}a-d{:}i\underbrace{b+\bar{b}}{:}b-\bar{b}\right) \in \mathbb{C}^{4}$$

$$^{2}\mathbb{C}_{2}^{\mathfrak{D}} \ni \begin{array}{c|c} a & b \\ \hline b & d \end{array} = \frac{1}{2}\left(a+d{:}a-d{:}i\underbrace{b+\bar{b}}\right) \in \mathbb{C}^{3}$$