

$$\left\{ \begin{array}{l} {}^n\mathbb{R}_n^{\mathbb{C}} = \frac{{}^n\mathbb{R}_n^{\mathbb{C}}}{0} \left| \frac{0}{{}^n\mathbb{R}_n^{\mathbb{C}}} \right. \cap {}^n_2\mathbb{R}_n^{\Omega} \quad \frac{1}{0} \left| \frac{0}{-1} \right. \\ {}^n\mathbb{C}_n^{\mathbb{C}} = \frac{{}^n\mathbb{C}_n^{\mathbb{C}}}{0} \left| \frac{0}{{}^n\mathbb{C}_n^{\mathbb{C}}} \right. \cap {}^n_2\mathbb{C}_n^{\Omega} \quad \frac{1}{0} \left| \frac{0}{-1} \right. \end{array} \right\} \begin{array}{l} {}^n_2\mathbb{R}_n^{\Omega} \\ {}^n_2\mathbb{C}_n^{\Omega} \end{array}$$

$$\Gamma \in {}^n\mathbb{R}_n^{\mathbb{C}} \Rightarrow \underline{\Gamma} = \frac{\Gamma}{0} \left| \frac{0}{\Gamma^{-1}} \right. \Rightarrow \underline{\Gamma}^* = \frac{\Gamma}{0} \left| \frac{0}{\Gamma^{-1}} \right. \Rightarrow \underline{\Gamma} \frac{0}{-1} \left| \frac{1}{0} \right. \quad \underline{\Gamma}^* = \underline{\Gamma} \underline{\Gamma}^{-1} \frac{0}{-1} \left| \frac{1}{0} \right. = \frac{0}{-1} \left| \frac{1}{0} \right.$$

$$\Gamma \in {}^n\mathbb{C}_n^{\mathbb{C}} \Rightarrow \underline{\Gamma} = \frac{\Gamma}{0} \left| \frac{0}{\Gamma^{-1}} \right. \Rightarrow \underline{\Gamma}^{\dagger} = \frac{\Gamma}{0} \left| \frac{0}{\Gamma^{-1}} \right. \Rightarrow \underline{\Gamma} \frac{0}{-1} \left| \frac{1}{0} \right. \quad \underline{\Gamma}^{\dagger} = \underline{\Gamma} \underline{\Gamma}^{-1} \frac{0}{-1} \left| \frac{1}{0} \right. = \frac{0}{-1} \left| \frac{1}{0} \right.$$