$$\begin{cases} {}^{n}\mathbb{R}_n^{\mathsf{U}} = {}^{n}\mathbb{R}_n^{\mathsf{C}} \cap {}^{n}\mathbb{C}_n^{\mathsf{D}} \\ {}^{n}\mathbb{C}_n^{\mathsf{U}} = {}^{n}\mathbb{C}_n^{\mathsf{C}} \cap {}^{n}\mathbb{H}_n^{\mathsf{D}} \end{cases} \xrightarrow[\,i\,]{\,1\,} \begin{cases} {}^{n}\mathbb{C}_n^{\mathsf{D}} \\ {}^{n}\mathbb{H}_n^{\mathsf{D}} \end{cases}$$

$$\int \in {}^{n}\mathbb{R}_n^{\mathsf{U}} \Rightarrow \int \int^{t} = \int \int^{*} = 1$$

$$\int \in {}^{n}\mathbb{C}_n^{\mathsf{U}} \Rightarrow \int i \int^{*} = i \int \int^{*} = i$$

$$\begin{cases} {}^{n}_{2}\mathbb{R}_n^{\mathsf{U}} = {}^{n}_{2}\mathbb{R}_n^{\mathsf{C}} \cap {}^{n}_{2}\mathbb{C}_n^{\mathsf{D}} \\ {}^{n}_{2}\mathbb{C}_n^{\mathsf{U}} = {}^{n}_{2}\mathbb{C}_n^{\mathsf{C}} \cap {}^{n}_{2}\mathbb{H}_n^{\mathsf{D}} \end{cases} \xrightarrow[\quad \frac{\begin{array}{c|c} i & 0 \\ \hline 0 & i \end{array}}{}\quad]{\quad \frac{\begin{array}{c|c} 1 & 0 \\ \hline 0 & 1 \end{array}}{}\quad} \begin{cases} {}^{n}_{2}\mathbb{C}_n^{\mathsf{D}} \\ {}^{n}_{2}\mathbb{H}_n^{\mathsf{D}} \end{cases}$$

$$\int \in {}^{n}_{2}\mathbb{R}_n^{\mathsf{U}} \Rightarrow \int \int^{T} = \int \int^{*} = \begin{array}{c|c} 1 & 0 \\ \hline 0 & 1 \end{array}$$

$$\int \in {}^{n}_{2}\mathbb{C}_n^{\mathsf{U}} \Rightarrow \int \int^{*} = \begin{array}{c|c} 1 & 0 \\ \hline 0 & 1 \end{array} \Rightarrow \int \begin{array}{c|c} i & 0 \\ \hline 0 & i \end{array} \int^{*} = \begin{array}{c|c} i & 0 \\ \hline 0 & i \end{array} \int \int^{*} = \begin{array}{c|c} i & 0 \\ \hline 0 & i \end{array} \Rightarrow \int \in {}^{n}_{2}\mathbb{H}_n^{\mathsf{D}}$$

$$\sigma \in \mathbb{C}^{\mathtt{U}} \implies \frac{\varkappa\sigma \mid i\sigma}{i\tau \mid \varkappa\tau} \quad {}^{n}\mathbb{C}_{n}^{\mathtt{U}} \underset{\text{unit}}{\frac{\varkappa\bar{\sigma} \mid -\bar{\tau}i}{-\bar{\sigma}i \mid \varkappa\bar{\tau}}} \quad \xrightarrow{\dfrac{0 \mid \mathbb{1}}{-\mathbb{1} \mid 0}} \quad {}^{n}\mathbb{H}_{n}^{\mathsf{C}}$$

$$\llcorner \in {}^{n}\mathbb{C}_{n}^{\mathtt{U}} \implies \frac{\varkappa\sigma \mid i\sigma}{i\tau \mid \varkappa\tau} \underset{\mathbb{R}}{\llcorner} \frac{\varkappa\bar{\sigma} \mid -\bar{\tau}i}{-\bar{\sigma}i \mid \varkappa\bar{\tau}} \frac{i \mid 0}{0 \mid -i} \overbrace{\frac{\varkappa\sigma \mid i\sigma}{i\tau \mid \varkappa\tau} \underset{\mathbb{R}}{\llcorner} \frac{\varkappa\bar{\sigma} \mid -\bar{\tau}i}{-\bar{\sigma}i \mid \varkappa\bar{\tau}}}^{*}$$

$$= \frac{\varkappa\sigma \mid i\sigma}{i\tau \mid \varkappa\tau} \underset{\mathbb{R}}{\llcorner} \underbrace{\frac{\varkappa\bar{\sigma} \mid -\bar{\tau}i}{-\bar{\sigma}i \mid \varkappa\bar{\tau}} \frac{i \mid 0}{0 \mid -i} \frac{\varkappa\sigma \mid i\sigma}{i\tau \mid \varkappa\tau}}_{\frac{0 \mid -\varkappa}{\varkappa \mid 0}} \overset{*}{\underset{\mathbb{R}}{\llcorner}} \frac{\varkappa\bar{\sigma} \mid -\bar{\tau}i}{-\bar{\sigma}i \mid \varkappa\bar{\tau}} \quad = \frac{\varkappa\sigma \mid i\sigma}{i\tau \mid \varkappa\tau} \underbrace{\underset{\mathbb{R}}{\llcorner} \frac{0 \mid -\varkappa}{\varkappa \mid 0}}_{= \frac{0 \mid -\varkappa}{\varkappa \mid 0} \underset{\mathbb{R}}{\llcorner}} \overset{*}{\underset{\mathbb{R}}{\llcorner}} \frac{\varkappa\bar{\sigma} \mid -\bar{\tau}i}{-\bar{\sigma}i \mid \varkappa\bar{\tau}}$$

$$= \frac{\varkappa\sigma \mid i\sigma}{i\tau \mid \varkappa\tau} \frac{0 \mid -\varkappa}{\varkappa \mid 0} \underbrace{\underset{\mathbb{R}}{\llcorner} \overset{*}{\underset{\mathbb{R}}{\llcorner}}}_{\frac{1 \mid 0}{0 \mid 1}} \frac{\varkappa\bar{\sigma} \mid -\bar{\tau}i}{-\bar{\sigma}i \mid \varkappa\bar{\tau}} \quad = \frac{\varkappa\sigma i \mid -\sigma}{\tau \mid -\varkappa\tau i} \frac{\varkappa\bar{\sigma} \mid -\bar{\tau}i}{-\bar{\sigma}i \mid \varkappa\bar{\tau}} \quad = \frac{i \mid 0}{0 \mid -i}$$

$${}^{n}\mathbb{C}_{n}^{\mathtt{U}} \divideontimes \frac{\mathbb{1} \mid 0}{0 \mid \mathbb{1}} = 0 \implies \frac{\varkappa\sigma \mid i\sigma}{i\tau \mid \varkappa\tau} \; {}^{n}\mathbb{C}_{n}^{\mathtt{U}} \frac{\varkappa\bar{\sigma} \mid -\bar{\tau}i}{-\bar{\sigma}i \mid \varkappa\bar{\tau}} \divideontimes \varkappa i\sigma\tau \underset{= \frac{\varkappa\sigma \mid i\sigma}{i\tau \mid \varkappa\tau} \frac{\mathbb{1} \mid 0}{0 \mid \mathbb{1}} \frac{\varkappa\bar{\sigma} \mid -\bar{\tau}i}{-\bar{\sigma}i \mid \varkappa\bar{\tau}}}{\dfrac{0 \mid \mathbb{1}}{-\mathbb{1} \mid 0}} = 0$$