$$\frac{\varkappa\bar{\sigma} \;\big|\; -i\bar{\tau}}{-i\bar{\sigma} \;\big|\; \varkappa\bar{\tau}} \quad {}^{n}\mathbb{C}_{n}^{\complement} \underset{+}{} \underset{\text{unit}}{\frac{\varkappa\sigma \;\big|\; i\sigma}{i\tau \;\big|\; \varkappa\tau}} \quad \xrightarrow{\;\frac{0 \;\big|\; 1}{-1 \;\big|\; 0}\;} \; {}^{n}_{2}\mathbb{C}_{n}^{\complement}$$

$$\int_{+} \in {}^{n}\mathbb{C}_{n}^{\complement} \implies \frac{\varkappa\bar{\sigma} \;\big|\; -i\bar{\tau}}{-i\bar{\sigma} \;\big|\; \varkappa\bar{\tau}} \underset{+}{\textstyle\int} \frac{\varkappa\sigma \;\big|\; i\sigma}{i\tau \;\big|\; \varkappa\tau} \overset{t}{\overbrace{\frac{\varkappa\bar{\sigma} \;\big|\; -i\bar{\tau}}{-i\bar{\sigma} \;\big|\; \varkappa\bar{\tau}} \underset{+}{\textstyle\int} \frac{\varkappa\sigma \;\big|\; i\sigma}{i\tau \;\big|\; \varkappa\tau}}}$$

$$= \frac{\varkappa\bar{\sigma} \;\big|\; -i\bar{\tau}}{-i\bar{\sigma} \;\big|\; \varkappa\bar{\tau}} \underset{+}{\textstyle\int} \underbrace{\frac{\varkappa\sigma \;\big|\; i\sigma}{i\tau \;\big|\; \varkappa\tau}\,\frac{\varkappa\sigma \;\big|\; i\tau}{i\sigma \;\big|\; \varkappa\tau}}_{\frac{0 \;\big|\; \varkappa i\sigma\tau}{\varkappa i\sigma\tau \;\big|\; 0}} \overset{t}{\underset{+}{\textstyle\int}} \frac{\varkappa\sigma \;\big|\; i\sigma}{i\tau \;\big|\; \varkappa\tau} = \frac{\varkappa\bar{\sigma} \;\big|\; -i\bar{\tau}}{-i\bar{\sigma} \;\big|\; \varkappa\bar{\tau}} \underset{+}{\textstyle\int} \frac{\varkappa i\sigma\tau \;\big|\; 0}{0 \;\big|\; \varkappa i\sigma\tau}\,\frac{0 \;\big|\; 1}{1 \;\big|\; 0} \overset{t}{\underset{+}{\textstyle\int}} \frac{\varkappa\sigma \;\big|\; i\sigma}{i\tau \;\big|\; \varkappa\tau}$$

$$= \frac{\varkappa\bar{\sigma} \;\big|\; -i\bar{\tau}}{-i\bar{\sigma} \;\big|\; \varkappa\bar{\tau}}\,\frac{\varkappa i\sigma\tau \;\big|\; 0}{0 \;\big|\; \varkappa i\sigma\tau} \underset{+}{\textstyle\int} \frac{0 \;\big|\; 1}{1 \;\big|\; 0} \overset{t}{\underset{+}{\textstyle\int}} \frac{\varkappa\sigma \;\big|\; i\sigma}{i\tau \;\big|\; \varkappa\tau} = \frac{\varkappa i\tau \;\big|\; \sigma}{\tau \;\big|\; \varkappa i\sigma} \underset{+}{\textstyle\int} \underbrace{\frac{0 \;\big|\; 1}{1 \;\big|\; 0} \overset{t}{\underset{+}{\textstyle\int}} \frac{\varkappa\sigma \;\big|\; i\sigma}{i\tau \;\big|\; \varkappa\tau}}_{\overset{-1}{\underset{+}{=\textstyle\int}}\frac{0 \;\big|\; 1}{1 \;\big|\; 0}}$$

$$= \frac{\varkappa i\tau \;\big|\; \sigma}{\tau \;\big|\; \varkappa i\sigma} \underbrace{\overset{-1}{\underset{+}{\textstyle\int}}\!\underset{+}{\textstyle\int}}_{=\frac{1 \;\big|\; 0}{0 \;\big|\; 1}} \frac{0 \;\big|\; 1}{1 \;\big|\; 0}\,\frac{\varkappa\sigma \;\big|\; i\sigma}{i\tau \;\big|\; \varkappa\tau} = \frac{\varkappa i\tau \;\big|\; \sigma}{\tau \;\big|\; \varkappa i\sigma}\,\frac{0 \;\big|\; 1}{1 \;\big|\; 0}\,\frac{\varkappa\sigma \;\big|\; i\sigma}{i\tau \;\big|\; \varkappa\tau} = \frac{1 \;\big|\; 0}{0 \;\big|\; 1}$$

$$\int_{+} \divideontimes \frac{1 \;\big|\; 0}{0 \;\big|\; -1} = 0 \implies \frac{\varkappa\bar{\sigma} \;\big|\; -i\bar{\tau}}{-i\bar{\sigma} \;\big|\; \varkappa\bar{\tau}} \underset{+}{\textstyle\int} \frac{\varkappa\sigma \;\big|\; i\sigma}{i\tau \;\big|\; \varkappa\tau} \divideontimes \underset{=\frac{\varkappa\bar{\sigma} \;\big|\; -i\bar{\tau}}{-i\bar{\sigma} \;\big|\; \varkappa\bar{\tau}}\frac{1 \;\big|\; 0}{0 \;\big|\; -1}\frac{\varkappa\sigma \;\big|\; i\sigma}{i\tau \;\big|\; \varkappa\tau}}{\frac{1 \;\big|\; 0}{0 \;\big|\; -1}} = 0$$

$$\frac{\varkappa\bar\sigma \;\big|\; -\varkappa i\bar\sigma}{-j\bar\sigma \;\big|\; ij\bar\sigma} \quad {}^{n}\mathbb{H}^{\complement}_{n}\underset{\times}{} \underset{\text{unit}}{\frac{\varkappa\sigma \;\big|\; \sigma j}{\varkappa\sigma i \;\big|\; \sigma ji}} \quad \xrightarrow{\;\dfrac{0\;\big|\;j}{-j\;\big|\;0}\;} \;\; {}^{n}_{2}\mathbb{H}^{\complement}_{n}$$

$$\underset{}{\textstyle\int} \in \; {}^{n}\mathbb{H}^{\complement}_{n} \;\Rightarrow\; \frac{\varkappa\bar\sigma \;\big|\; -\varkappa i\bar\sigma}{-j\bar\sigma \;\big|\; ij\bar\sigma} \;\underset{\times}{\textstyle\int}\; \underset{\text{unit}}{\frac{\varkappa\sigma \;\big|\; \sigma j}{\varkappa\sigma i \;\big|\; \sigma ji}} \;\frac{i\;\big|\;0}{0\;\big|\;i}\; \overbrace{\frac{\varkappa\bar\sigma \;\big|\; -\varkappa i\bar\sigma}{-j\bar\sigma \;\big|\; ij\bar\sigma} \;\underset{\times}{\textstyle\int}\; \frac{\varkappa\sigma \;\big|\; \sigma j}{\varkappa\sigma i \;\big|\; \sigma ji}}^{*}$$

$$= \frac{\varkappa\bar\sigma \;\big|\; -\varkappa i\bar\sigma}{-j\bar\sigma \;\big|\; ij\bar\sigma} \;\underset{\times}{\textstyle\int}\; \underbrace{\frac{\varkappa\sigma \;\big|\; \sigma j}{\varkappa\sigma i \;\big|\; \sigma ji} \;\frac{i\;\big|\;0}{0\;\big|\;i}\; \frac{\varkappa\bar\sigma \;\big|\; -\varkappa i\bar\sigma}{-j\bar\sigma \;\big|\; ij\bar\sigma}}_{=\frac{0\;\big|\;1}{-1\;\big|\;0}} \;\overset{*}{\underset{\times}{\textstyle\int}}\; \frac{\varkappa\sigma \;\big|\; \sigma j}{\varkappa\sigma i \;\big|\; \sigma ji} \;=\; \frac{\varkappa\bar\sigma \;\big|\; -\varkappa i\bar\sigma}{-j\bar\sigma \;\big|\; ij\bar\sigma} \;\underset{\times}{\textstyle\int}\; \underbrace{\frac{0\;\big|\;1}{-1\;\big|\;0}}_{\overset{-1}{\underset{\times}{\textstyle\int}}\frac{0\;\big|\;1}{-1\;\big|\;0}} \;\overset{*}{\underset{\times}{\textstyle\int}}\; \frac{\varkappa\sigma \;\big|\; \sigma j}{\varkappa\sigma i \;\big|\; \sigma ji}$$

$$= \frac{\varkappa\bar\sigma \;\big|\; -\varkappa i\bar\sigma}{-j\bar\sigma \;\big|\; ij\bar\sigma} \;\underbrace{\overset{-1}{\underset{\times}{\textstyle\int}\underset{\times}{\textstyle\int}}}_{=\frac{1\;\big|\;0}{0\;\big|\;1}}\; \frac{0\;\big|\;1}{-1\;\big|\;0}\; \frac{\varkappa\sigma \;\big|\; \sigma j}{\varkappa\sigma i \;\big|\; \sigma ji} \;=\; \frac{\varkappa\bar\sigma \;\big|\; -\varkappa i\bar\sigma}{-j\bar\sigma \;\big|\; ij\bar\sigma}\; \frac{0\;\big|\;1}{-1\;\big|\;0}\; \frac{\varkappa\sigma \;\big|\; \sigma j}{\varkappa\sigma i \;\big|\; \sigma ji} \;=\; \frac{i\;\big|\;0}{0\;\big|\;i}$$

$$\underset{\times}{\textstyle\int}\; \bowtie \; \frac{1\;\big|\;0}{0\;\big|\;-1} \;=\; 0 \;\Rightarrow\; \frac{\varkappa\bar\sigma \;\big|\; -\varkappa i\bar\sigma}{-j\bar\sigma \;\big|\; ij\bar\sigma} \;\underset{\times}{\textstyle\int}\; \frac{\varkappa\sigma \;\big|\; \sigma j}{\varkappa\sigma i \;\big|\; \sigma ji} \;\bowtie\; \underset{=\frac{\varkappa\bar\sigma \;\big|\; -\varkappa i\bar\sigma}{-j\bar\sigma \;\big|\; ij\bar\sigma}\frac{1\;\big|\;0}{0\;\big|\;-1}\frac{\varkappa\sigma \;\big|\; \sigma j}{\varkappa\sigma i \;\big|\; \sigma ji}}{\dfrac{0\;\big|\;\varkappa j}{-\varkappa j\;\big|\;0}} \;=\; 0$$