$$0 = 0 \rtimes \begin{array}{c|c} \bar{\Gamma} & \triangleleft\Gamma \\ \hline -\bar{\triangleleft\Gamma} & \Gamma \end{array} = \bar{\Gamma}^{-1} \triangleleft\Gamma \underset{\mathrm{i}}{\Leftrightarrow} \triangleleft\Gamma = 0$$

$$0 = 0 \rtimes \begin{array}{c|c} 1 & 1 \\ \hline -1 & 1 \end{array} = 1 = 1 \rtimes \begin{array}{c|c} \overset{*}{\Gamma}^{-1} & 0 \\ \hline 0 & \Gamma \end{array} = \overset{*}{\Gamma}\,\Gamma \underset{\mathrm{iii}}{\Leftrightarrow} \Gamma^{-1} = \overset{*}{\Gamma}$$

$$0 = 0 \rtimes \begin{array}{c|c} 1 & 1 \\ \hline -1 & 1 \end{array} = 1 = 1 \rtimes \begin{array}{c|c} \triangleleft\!\triangleright & 0 \\ \hline 0 & \Gamma \end{array} = \triangleleft\!\triangleright^{-1}\,\Gamma \underset{\mathrm{iv}}{\Leftrightarrow} \triangleleft\!\triangleright = \Gamma$$

$$0 \rtimes \begin{array}{c|c} 1 & -i \\ \hline -i & 1 \end{array} = -i = -i \rtimes \begin{array}{c|c} \triangleleft\!\triangleright & 0 \\ \hline 0 & \Gamma \end{array} = -i\,\triangleleft\!\triangleright^{-1}\,\Gamma \underset{\mathrm{v}}{\Leftrightarrow} \triangleleft\!\triangleright = \Gamma$$

$$0 \rtimes \begin{array}{c|c} -j & -i \\ \hline ij & 1 \end{array} = ij = ij \begin{array}{c|c} \triangleleft\!\triangleright & \triangleleft\Gamma \\ \hline \lrcorner\triangleright & \Gamma \end{array} = \overbrace{\triangleleft\!\triangleright + ij\,\lrcorner\triangleright}^{-1} \underbrace{\triangleleft\Gamma + ij\,\Gamma} \underset{\mathrm{vi}}{\Leftrightarrow} \begin{cases} \triangleleft\!\triangleright = \bar{\Gamma} \\ \lrcorner\triangleright = -\bar{\triangleleft\Gamma} \end{cases}$$

$$^{n}\mathbb{R}_n^{\cup} \sqsubset \underset{\omega}{\cup} \,|\, {}^{n}_{\dot\cup}\mathbb{R}_n^{\backepsilon} \xrightarrow{\varepsilon_0} {}^{n}_{\dot\cup}\mathbb{R}_n^{\backepsilon}$$

$$^{n}\mathbb{R}_n^{\Theta} \sqsubset \underset{\omega}{\Theta} \,|\, {}^{n}_{\dot\cup}\mathbb{R}_n^{\backepsilon} \xrightarrow{\varepsilon_0} {}^{n}\mathbb{R}_n^{\backepsilon}$$

$$\underset{\omega}{\Theta} \,|\, {}^{n}_{\dot\cup}\mathbb{R}_n^{\backepsilon} = \underset{\omega}{\Theta}_1 \,|\, {}^{n}_{\dot\cup}\mathbb{R}_n^{\backepsilon} \times \underset{\omega}{\Theta}_{-} \,|\, {}^{n}_{\dot\cup}\mathbb{R}_n^{\backepsilon}$$

$$\underset{\omega}{\Theta}_1 \,|\, {}^{n}_{\dot\cup}\mathbb{R}_n^{\backepsilon} =$$

$$\underset{\omega}{\Theta}_{-} \,|\, {}^{n}_{\dot\cup}\mathbb{R}_n^{\backepsilon} =$$

$$^{n}\mathbb{R}_n^{\cup} :\times {}^{n}\mathbb{R}_n^{\cup} \times {}^{n}\mathbb{R}_n^{\cup} \underset{\asymp}{\xrightarrow{\varepsilon_0}} {}^{n}_{\bigcirc}\mathbb{R}_n^{\backepsilon}$$

$$^{n}\mathbb{R}_n^{\cup} :\times {}^{n}\mathbb{C}_n^{\supset} \underset{\asymp}{\xrightarrow{\varepsilon_0}} {}^{n}_{\cup}\mathbb{R}_n^{\backepsilon}$$

$$^{0}\!\rceil\, {}^{n}\mathbb{R}_n^{\cup} \times {}^{n}\mathbb{R}_n^{\cup} \underset{\mathrm{iv}}{=} {}^{n}\mathbb{R}_n^{\cup} \underset{\mathrm{i}}{=} {}^{0}\!\rceil\, {}^{n}\mathbb{C}_n^{\supset}$$

$$ {}^{n}\mathbb{R}_{n}^{\mho} \sqsubset \underset{\omega}{\mho} \,|\, {}^{n}_{\dot{\mho}}\mathbb{R}_{n}^{\oplus} \xrightarrow{\varepsilon_0} {}^{n}_{\dot{\mho}}\mathbb{R}_{n}^{\oplus} $$

$$ {}^{n}\mathbb{R}_{n}^{\ominus} \sqsubset \underset{\omega}{\ominus} \,|\, {}^{n}_{\dot{\mho}}\mathbb{R}_{n}^{\oplus} \xrightarrow{\varepsilon_0} {}^{n}\mathbb{R}_{n}^{\oplus} $$

$$ \underset{\omega}{\ominus} \,|\, {}^{n}_{\dot{\mho}}\mathbb{R}_{n}^{\oplus} = \underset{\omega}{\ominus}_{1} \,|\, {}^{n}_{\dot{\mho}}\mathbb{R}_{n}^{\oplus} \times \underset{\omega}{\ominus}_{-} \,|\, {}^{n}_{\dot{\mho}}\mathbb{R}_{n}^{\oplus} $$

$$ \underset{\omega}{\ominus}_{1} \,|\, {}^{n}_{\dot{\mho}}\mathbb{R}_{n}^{\oplus} = $$

$$ \underset{\omega}{\ominus}_{-} \,|\, {}^{n}_{\dot{\mho}}\mathbb{R}_{n}^{\oplus} = $$

$$ {}^{n}\mathbb{R}_{n}^{\mho} :\times {}^{n}\mathbb{C}_{n}^{\mho} \underset{\asymp}{\xrightarrow{\varepsilon_0}} {}^{n}_{\bigcirc}\mathbb{R}_{n}^{\oplus} $$

$$ {}^{n}\mathbb{R}_{n}^{\mho} :\times {}^{n}_{\subset}\mathbb{R}_{n} \underset{\asymp}{\xrightarrow{\varepsilon_0}} {}^{n}_{\mho}\mathbb{R}_{n}^{\oplus} $$

$$ {}^{0}\rceil\, {}^{n}\mathbb{C}_{n}^{\mho} \underset{\mathrm{i}}{=} {}^{n}\mathbb{R}_{n}^{\mho} \underset{\mathrm{iii}}{=} {}^{0}\rceil\, {}^{n}_{\subset}\mathbb{R}_{n} $$

$$ {}^{n}\mathbb{C}_{n}^{\mho} \sqsubset \underset{\omega}{\mho} \,|\, {}^{n}_{\dot{\mho}}\mathbb{C}_{n}^{\Theta} \xrightarrow{\varepsilon_0} {}^{n}_{\dot{\mho}}\mathbb{C}_{n}^{\Theta} $$

$$ {}^{n}\mathbb{C}_{n}^{\Theta} \sqsubset \underset{\omega}{\Theta} \,|\, {}^{n}_{\dot{\mho}}\mathbb{C}_{n}^{\Theta} \xrightarrow{\varepsilon_0} {}^{n}\mathbb{C}_{n}^{\Theta} $$

$$ \underset{\omega}{\Theta} \,|\, {}^{n}_{\dot{\mho}}\mathbb{C}_{n}^{\Theta} = \underset{\omega}{\Theta}_{1} \,|\, {}^{n}_{\dot{\mho}}\mathbb{C}_{n}^{\Theta} \times \underset{\omega}{\Theta}_{-} \,|\, {}^{n}_{\dot{\mho}}\mathbb{C}_{n}^{\Theta} $$

$$ \underset{\omega}{\Theta}_{1} \,|\, {}^{n}_{\dot{\mho}}\mathbb{C}_{n}^{\Theta} = $$

$$ \underset{\omega}{\Theta}_{-} \,|\, {}^{n}_{\dot{\mho}}\mathbb{C}_{n}^{\Theta} = $$

$$ {}^{n}\mathbb{C}_{n}^{\mho} :\times {}^{n}\mathbb{C}_{n}^{\mho} \times {}^{n}\mathbb{C}_{n}^{\mho} \underset{\asymp}{\xrightarrow{\varepsilon_0}} {}^{n}_{\bigcirc}\mathbb{C}_{n}^{\Psi} $$

$$ {}^{n}\mathbb{C}_{n}^{\mho} :\times {}^{n}_{\mathsf{C}}\mathbb{C}_{n} \underset{\asymp}{\xrightarrow{\varepsilon_0}} {}^{n}_{\mho}\mathbb{C}_{n}^{\Psi} $$

$$ {}^{0}\rfloor\; {}^{n}\mathbb{C}_{n}^{\mho} \times {}^{n}\mathbb{C}_{n}^{\mho} \underset{\mathrm{v}}{=} {}^{n}\mathbb{C}_{n}^{\mho} \underset{\mathrm{iii}}{=} {}^{0}\rfloor\; {}^{n}_{\mathsf{C}}\mathbb{C}_{n} $$

$$ {}^{n}\mathbb{H}_n^{\mho} \sqsubset \underset{\omega}{\mho} \,\Big|\, {}^{n}_{\dot{\mho}}\mathbb{H}_n^{\Psi} \xrightarrow{\varepsilon_0} {}^{n}_{\dot{\mho}}\mathbb{H}_n^{\Psi} $$

$$ {}^{n}\mathbb{H}_n^{\Theta} \sqsubset \underset{\omega}{\Theta} \,\Big|\, {}^{n}_{\dot{\mho}}\mathbb{H}_n^{\Psi} \xrightarrow{\varepsilon_0} {}^{n}\mathbb{H}_n^{\Psi} $$

$$ \underset{\omega}{\Theta} \,\Big|\, {}^{n}_{\dot{\mho}}\mathbb{H}_n^{\Psi} = \underset{\omega}{\Theta}_1 \,\Big|\, {}^{n}_{\dot{\mho}}\mathbb{H}_n^{\Psi} \times \underset{\omega}{\Theta}_- \,\Big|\, {}^{n}_{\dot{\mho}}\mathbb{H}_n^{\Psi} $$

$$ \underset{\omega}{\Theta}_1 \,\Big|\, {}^{n}_{\dot{\mho}}\mathbb{H}_n^{\Psi} = $$

$$ \underset{\omega}{\Theta}_- \,\Big|\, {}^{n}_{\dot{\mho}}\mathbb{H}_n^{\Psi} = $$

$$ {}^{n}\mathbb{H}_n^{\mho} :\times {}^{n}\mathbb{H}_n^{\mho} \times {}^{n}\mathbb{H}_n^{\mho} \underset{\asymp}{\xrightarrow{\varepsilon_0}} {}^{n}_{\bigcirc}\mathbb{H}_n^{\Psi} $$

$$ {}^{n}\mathbb{H}_n^{\mho} :\times {}^{2n}\mathbb{C}_{2n}^{\ni} \underset{\asymp}{\xrightarrow{\varepsilon_0}} {}^{n}_{\mho}\mathbb{H}_n^{\Psi} $$

$$ {}^{0}\!\rceil\; {}^{n}\mathbb{H}_n^{\mho} \times {}^{n}\mathbb{H}_n^{\mho} \underset{\text{iv}}{=} {}^{n}\mathbb{H}_n^{\mho} \underset{\text{vi}}{=} {}^{0}\!\rceil\; {}^{2n}\mathbb{C}_{2n}^{\ni} $$

$$ {}^{n}\mathbb{H}_n^{\mho} \sqsubset \underset{\omega}{\mho} \,|\, {}^{n}_{\dot{\mho}}\mathbb{H}_n^{\Theta} \xrightarrow{\varepsilon_0} {}^{n}_{\dot{\mho}}\mathbb{H}_n^{\Theta} $$

$$ {}^{n}\mathbb{H}_n^{\Theta} \sqsubset \underset{\omega}{\Theta} \,|\, {}^{n}_{\dot{\mho}}\mathbb{H}_n^{\Theta} \xrightarrow{\varepsilon_0} {}^{n}\mathbb{H}_n^{\Theta} $$

$$ \underset{\omega}{\Theta} \,|\, {}^{n}_{\dot{\mho}}\mathbb{H}_n^{\Theta} = \underset{\omega}{\Theta}_1 \,|\, {}^{n}_{\dot{\mho}}\mathbb{H}_n^{\Theta} \times \underset{\omega}{\Theta}_- \,|\, {}^{n}_{\dot{\mho}}\mathbb{H}_n^{\Theta} $$

$$ \underset{\omega}{\Theta}_1 \,|\, {}^{n}_{\dot{\mho}}\mathbb{H}_n^{\Theta} = $$

$$ \underset{\omega}{\Theta}_- \,|\, {}^{n}_{\dot{\mho}}\mathbb{H}_n^{\Theta} = $$

$$ {}^{n}\mathbb{H}_n^{\mho} :\times {}^{2n}\mathbb{C}_{2n}^{\mho} \underset{\asymp}{\xrightarrow{\varepsilon_0}} {}_{\bigcirc}\mathbb{H}_n^{\Theta} $$

$$ {}^{n}\mathbb{H}_n^{\mho} :\times {}^{n}_{\mathsf{C}}\mathbb{H}_n \underset{\asymp}{\xrightarrow{\varepsilon_0}} {}^{n}_{\mho}\mathbb{H}_n^{\Theta} $$

$$ {}^{0}\!\rceil\; {}^{2n}\mathbb{C}_{2n}^{\mho} \underset{\text{vi}}{=} {}^{n}\mathbb{H}_n^{\mho} \underset{\text{iii}}{=} {}^{0}\!\rceil\; {}^{n}_{\mathsf{C}}\mathbb{H}_n $$