

$$\begin{aligned}
0 = 0 \bowtie \frac{\bar{\mathbb{J}}}{-\bar{\mathbb{A}}} & \left| \begin{array}{c} \mathbb{J} \\ \mathbb{A} \end{array} \right. = \bar{\mathbb{J}}^{-1} \mathbb{A} \stackrel{\text{i}}{\Leftrightarrow} \mathbb{A} = 0 \\
0 = 0 \bowtie \frac{1}{-1} & \left| \begin{array}{c} 1 \\ 1 \end{array} \right. = 1 = 1 \bowtie \frac{\mathbb{J}^{-1}}{0} & \left| \begin{array}{c} 0 \\ \mathbb{J} \end{array} \right. = \mathbb{J} \mathbb{J} \stackrel{\text{iii}}{\Leftrightarrow} \mathbb{J}^{-1} = \mathbb{J} \\
0 = 0 \bowtie \frac{1}{-1} & \left| \begin{array}{c} 1 \\ 1 \end{array} \right. = 1 = 1 \bowtie \frac{\mathbb{A}}{0} & \left| \begin{array}{c} 0 \\ \mathbb{J} \end{array} \right. = \mathbb{A}^{-1} \mathbb{J} \stackrel{\text{iv}}{\Leftrightarrow} \mathbb{A} = \mathbb{J} \\
0 \bowtie \frac{1}{-i} & \left| \begin{array}{c} -i \\ 1 \end{array} \right. = -i = -i \bowtie \frac{\mathbb{A}}{0} & \left| \begin{array}{c} 0 \\ \mathbb{J} \end{array} \right. = -i \mathbb{A}^{-1} \mathbb{J} \stackrel{\text{v}}{\Leftrightarrow} \mathbb{A} = \mathbb{J} \\
0 \bowtie \frac{-j}{ij} & \left| \begin{array}{c} -i \\ 1 \end{array} \right. = ij = ij \frac{\mathbb{A}}{\mathbb{J}} & \left| \begin{array}{c} \mathbb{A}^{-1} \\ \mathbb{A} + ij \mathbb{J} \end{array} \right. \underbrace{\mathbb{A} + ij \mathbb{J}}_{\text{vi}} \Leftrightarrow \begin{cases} \mathbb{A} = \bar{\mathbb{J}} \\ \mathbb{J} = -\bar{\mathbb{A}} \end{cases}
\end{aligned}$$

$${}^n\mathbb{R}_n^U \sqsubset {}_U\mathbb{Y} | {}^n\mathbb{R}_n^{\mathfrak{B}} \xrightarrow{\varepsilon_0} {}^n\mathbb{R}_n^{\mathfrak{B}}$$

$${}^n\mathbb{R}_n^V \sqsubset {}_V\mathbb{Y} | {}^n\mathbb{R}_n^{\mathfrak{B}} \xrightarrow{\varepsilon_0} {}^n\mathbb{R}_n^{\mathfrak{B}}$$

$$\mathbb{Y} | {}^n\mathbb{R}_n^{\mathfrak{B}} = \mathbb{Y}_1 | {}^n\mathbb{R}_n^{\mathfrak{B}} \times \mathbb{Y}_{-} | {}^n\mathbb{R}_n^{\mathfrak{B}}$$

$$\mathbb{Y}_1 | {}^n\mathbb{R}_n^{\mathfrak{B}} =$$

$$\mathbb{Y}_{-} | {}^n\mathbb{R}_n^{\mathfrak{B}} =$$

$${}^n\mathbb{R}_n^U : \times {}^n\mathbb{R}_n^U \times {}^n\mathbb{R}_n^U \xrightarrow[\asymp]{\varepsilon_0} {}^n\mathbb{R}_n^{\mathfrak{B}}$$

$${}^n\mathbb{R}_n^U : \times {}^n\mathbb{C}_n^{\mathfrak{C}} \xrightarrow[\asymp]{\varepsilon_0} {}_U\mathbb{R}_n^{\mathfrak{B}}$$

$$0 \searrow {}^n\mathbb{R}_n^U \times {}^n\mathbb{R}_n^U \underset{\text{iv}}{=} {}^n\mathbb{R}_n^U \underset{\text{i}}{=} 0 \searrow {}^n\mathbb{C}_n^{\mathfrak{C}}$$

$${}^n\mathbb{R}_n^U \leftarrow \mathbb{Y} | {}^n\mathbb{R}_n^{\mathfrak{B}} \xrightarrow{\varepsilon_0} {}^n\mathbb{R}_n^{\mathfrak{B}}$$

$${}^n\mathbb{R}_n^{\mathbb{Y}} \leftarrow \mathbb{Y} | {}^n\mathbb{R}_n^{\mathfrak{B}} \xrightarrow{\varepsilon_0} {}^n\mathbb{R}_n^{\mathfrak{B}}$$

$$\mathbb{Y} | {}^n\mathbb{R}_n^{\mathfrak{B}} = \mathbb{Y}_1 | {}^n\mathbb{R}_n^{\mathfrak{B}} \times \mathbb{Y}_{-} | {}^n\mathbb{R}_n^{\mathfrak{B}}$$

$$\mathbb{Y}_1 | {}^n\mathbb{R}_n^{\mathfrak{B}} =$$

$$\mathbb{Y}_{-} | {}^n\mathbb{R}_n^{\mathfrak{B}} =$$

$${}^n\mathbb{R}_n^U : \times {}^n\mathbb{C}_n^U \xrightarrow[\asymp]{\varepsilon_0} {}^n\mathbb{R}_n^{\mathfrak{B}}$$

$${}^n\mathbb{R}_n^U : \times {}^n\mathbb{R}_n^{\mathbb{C}} \xrightarrow[\asymp]{\varepsilon_0} {}^n\mathbb{R}_n^{\mathfrak{B}}$$

$$\begin{matrix} 0 \\ \searrow \end{matrix} {}^n\mathbb{C}_n^U \underset{i}{=} {}^n\mathbb{R}_n^U \underset{iii}{= \equiv} \begin{matrix} 0 \\ \searrow \end{matrix} {}^n\mathbb{R}_n^{\mathbb{C}}$$

$${}^n\mathbb{C}_n^{\text{U}} \,\sqsubset\, \mathbb{U} \,|\, {}^n\mathbb{C}_n^{\text{V}} \xrightarrow{\varepsilon_0} {}^n\mathbb{C}_n^{\text{V}}$$

$${}^n\mathbb{C}_n^{\text{V}} \,\sqsubset\, \mathbb{V} \,|\, {}^n\mathbb{C}_n^{\text{U}} \xrightarrow{\varepsilon_0} {}^n\mathbb{C}_n^{\text{U}}$$

$$\mathbb{V} \,|\, {}^n\mathbb{C}_n^{\text{U}} = \mathbb{V}_1 \,|\, {}^n\mathbb{C}_n^{\text{V}} \times \mathbb{V}_{-} \,|\, {}^n\mathbb{C}_n^{\text{U}}$$

$$\mathbb{V}_1 \,|\, {}^n\mathbb{C}_n^{\text{V}} =$$

$$\mathbb{V}_{-} \,|\, {}^n\mathbb{C}_n^{\text{V}} =$$

$${}^n\mathbb{C}_n^{\text{U}} : \times {}^n\mathbb{C}_n^{\text{U}} \times {}^n\mathbb{C}_n^{\text{U}} \xrightarrow{\varepsilon_0} {}^n\mathbb{C}_n^{\text{W}}$$

$${}^n\mathbb{C}_n^{\text{U}} : \times {}^n\mathbb{C}_{\text{G}}^{\text{U}} \xrightarrow{\varepsilon_0} {}^n\mathbb{C}_{\text{U}}^{\text{W}}$$

$${}^0\searrow {}^n\mathbb{C}_n^{\text{U}} \times {}^n\mathbb{C}_n^{\text{U}} \underset{\text{v}}{=} {}^n\mathbb{C}_n^{\text{U}} \underset{\text{iii}}{=} {}^0\searrow {}^n\mathbb{C}_{\text{G}}^{\text{U}}$$

$${}^n\mathbb{H}_n^{\text{U}} \,\sqsubset\, \mathbb{U} \,|\, {}^n\mathbb{H}_n^{\mathfrak{U}} \xrightarrow{\varepsilon_0} {}^n\mathbb{H}_n^{\mathfrak{U}}$$

$${}^n\mathbb{H}_n^{\Theta} \,\sqsubset\, \mathbb{\Theta} \,|\, {}^n\mathbb{H}_n^{\mathfrak{U}} \xrightarrow{\varepsilon_0} {}^n\mathbb{H}_n^{\mathfrak{U}}$$

$$\mathbb{\Theta} \,|\, {}^n\mathbb{H}_n^{\Psi} = \mathbb{\Theta}_1 \,|\, {}^n\mathbb{H}_n^{\mathfrak{U}} \times \mathbb{\Theta}_{-} \,|\, {}^n\mathbb{H}_n^{\Psi}$$

$$\mathbb{\Theta}_1 \,|\, {}^n\mathbb{H}_n^{\mathfrak{U}} =$$

$$\mathbb{\Theta}_{-} \,|\, {}^n\mathbb{H}_n^{\Psi} =$$

$${}^n\mathbb{H}_n^{\text{U}} : \times {}^n\mathbb{H}_n^{\text{U}} \times {}^n\mathbb{H}_n^{\text{U}} \xrightarrow[\asymp]{\varepsilon_0} {}^n\mathbb{H}_n^{\mathfrak{U}}$$

$${}^n\mathbb{H}_n^{\text{U}} : \times {}^{2n}\mathbb{C}_{2n}^{\ni} \xrightarrow[\asymp]{\varepsilon_0} {}^n\mathbb{H}_n^{\Psi}$$

$$\overset{0}{\searrow} {}^n\mathbb{H}_n^{\text{U}} \times {}^n\mathbb{H}_n^{\text{U}} \underset{\text{iv}}{=} {}^n\mathbb{H}_n^{\text{U}} \underset{\text{vi}}{=} \overset{0}{\searrow} {}^{2n}\mathbb{C}_{2n}^{\ni}$$

$${}^n\mathbb{H}_n^{\text{U}} \,\sqsubset\, \mathbb{U} \,|\, {}^n\mathbb{H}_n^{\Theta} \xrightarrow{\varepsilon_0} {}^n\mathbb{H}_n^{\Theta}$$

$${}^n\mathbb{H}_n^{\Theta} \,\sqsubset\, \mathbb{U} \,|\, {}^n\mathbb{H}_n^{\Theta} \xrightarrow{\varepsilon_0} {}^n\mathbb{H}_n^{\Theta}$$

$$\mathbb{U} \,|\, {}^n\mathbb{H}_n^{\text{U}} = \mathbb{U}_1 \,|\, {}^n\mathbb{H}_n^{\text{U}} \times \mathbb{U}_{-} \,|\, {}^n\mathbb{H}_n^{\text{U}}$$

$$\mathbb{U}_1 \,|\, {}^n\mathbb{H}_n^{\Theta} =$$

$$\mathbb{U}_{-} \,|\, {}^n\mathbb{H}_n^{\Theta} =$$

$${}^n\mathbb{H}_n^{\text{U}} : \times^{2n} \mathbb{C}_{2n}^{\text{U}} \xrightarrow[\asymp]{\varepsilon_0} {}^n\mathbb{H}_n^{\Theta}$$

$${}^n\mathbb{H}_n^{\text{U}} : \times_{\mathbb{C}}^n \mathbb{H}_n \xrightarrow[\asymp]{\varepsilon_0} {}^n\mathbb{H}_n^{\Theta}$$

$$\begin{matrix} 0 \\ \searrow \end{matrix} {}^{2n}\mathbb{C}_{2n}^{\text{U}} \stackrel{\text{vi}}{=} {}^n\mathbb{H}_n^{\text{U}} \stackrel{\text{iii}}{=} \begin{matrix} 0 \\ \searrow \end{matrix} {}_{\mathbb{C}}^n \mathbb{H}_n$$