$$\begin{Bmatrix} {}^{p:q}\mathbb{R}^{\mathsf{U}}_{p:q} \\ {}^{p:q}\mathbb{C}^{\mathsf{U}}_{p:q} \\ {}^{p:q}\mathbb{H}^{\mathsf{U}}_{p:q} \end{Bmatrix} \xleftarrow[\text{herm}]{\exp} \begin{Bmatrix} {}^{p:q}\mathbb{R}^{\mathsf{U}}_{p:q} \\ {}^{p:q}\mathbb{C}^{\mathsf{U}}_{p:q} \\ {}^{p:q}\mathbb{H}^{\mathsf{U}}_{p:q} \end{Bmatrix}$$

$${}^{n}_{2}\mathbb{B}^{\Omega}_{n} = \begin{Bmatrix} {}^{n}_{2}\mathbb{R}^{\Omega}_{n} \\ {}^{n}_{2}\mathbb{C}^{\Omega}_{n} \end{Bmatrix} \xleftarrow[\text{asymm}]{\exp} \begin{Bmatrix} {}^{2n}\mathbb{R}^{\mathfrak{A}}_{2n} \\ {}^{2n}\mathbb{C}^{\mathfrak{A}}_{2n} \end{Bmatrix}$$

$$\bar{g}_{\mathbb{C}} = \not{J}\, g_{\mathbb{C}}\, \bar{\not{J}}^{-1} = i\not{J}\, g_{\mathbb{C}}\, i\not{J}$$

$$\begin{array}{c|c} \bar{a} & \bar{b} \\ \hline -b & a \end{array} = \begin{array}{c|c} 0 & i \\ \hline -i & 0 \end{array} \begin{array}{c|c} a & b \\ \hline -\bar{b} & \bar{a} \end{array} \begin{array}{c|c} 0 & i \\ \hline -i & 0 \end{array} = \begin{array}{c|c} 0 & 1 \\ \hline -1 & 0 \end{array} \begin{array}{c|c} a & b \\ \hline -\bar{b} & \bar{a} \end{array} \begin{array}{c|c} 0 & -1 \\ \hline 1 & 0 \end{array}$$

$$\bar{g}_{\mathbb{C}} = j\not{J}\, g_{\mathbb{C}} j\not{J}$$

$$\begin{array}{c|c} 0 & j \\ \hline -j & 0 \end{array} \begin{array}{c|c} a & b \\ \hline c & d \end{array} \begin{array}{c|c} 0 & j \\ \hline -j & 0 \end{array} = \begin{array}{c|c} a & b \\ \hline c & d \end{array}$$

$${}^{n}_{2}\mathbb{R}^{\Omega}_{n} \subset {}^{n}_{2}\mathbb{C}^{\Omega}_{n} \subset {}^{n}_{4}\mathbb{R}^{\Omega}_{n} \subset {}^{n}_{4}\mathbb{C}^{\Omega}_{n}$$

$${}^{n}\mathbb{E}^{\complement}_{n} \subset {}^{n}\mathbb{F}^{\complement}_{n} \subset {}^{n}_{2}\mathbb{E}^{\complement}_{n} \subset {}^{n}_{2}\mathbb{F}^{\complement}_{n}$$

$${}^{n}\mathbb{E}^{\mathsf{U}}_{n} \subset {}^{n}\mathbb{F}^{\mathsf{U}}_{n} \subset {}^{n}_{1:1}\mathbb{E}^{\mathsf{U}}_{n} \subset {}^{n}_{1:1}\mathbb{F}^{\mathsf{U}}_{n}$$