$$\begin{array}{ccc} {}^{n}\mathbb{H}_{n}^{\mathfrak{U}} & \xrightarrow[\text{on}]{\rtimes} & \underset{\sim}{\mathfrak{U}}|_{\bigcirc}^{n}\mathbb{C}_{n}^{\mathfrak{B}} \\ \exp \uparrow & & \uparrow \exp \\ {}^{n}\mathbb{H}_{n}^{\mathfrak{V}} & \xrightarrow[\text{on}]{\rtimes} & \underset{\sim}{\mathfrak{V}}|_{\bigcirc}^{n}\mathbb{C}_{n}^{\mathfrak{B}} \end{array}$$

$$\curvearrowleft \rtimes \begin{array}{c|c} \bar{\mathbb{I}} & \curvearrowleft \\ \hline -\bar{\curvearrowleft} & \mathbb{I} \end{array} = \curvearrowleft \begin{array}{c|c} \bar{\mathbb{I}} & \curvearrowleft \\ \hline -\bar{\curvearrowleft} & \mathbb{I} \end{array}$$

$$\mathfrak{B} = \begin{array}{c|c} 0 & -\divideontimes \\ \hline \divideontimes & 0 \end{array} \ *\text{-inv} \not/ {}^{n}\mathbb{H}_{n}^{\mathfrak{U}} \subset {}^{2n}\mathbb{C}_{2n}^{\Omega}$$

$$\begin{array}{ccc} {}^{2n}\mathbb{R}_{2n}^{\mathfrak{U}} & \xrightarrow[\text{on}]{\rtimes} & \underset{\sim}{\mathfrak{U}}|_{\bigcirc}^{n}\mathbb{C}_{n}^{\mathfrak{I}} \\ \exp \uparrow & & \uparrow \exp \\ {}^{2n}\mathbb{R}_{2n}^{\mathfrak{V}} & \xrightarrow[\text{on}]{\rtimes} & \underset{\sim}{\mathfrak{V}}|_{\bigcirc}^{n}\mathbb{C}_{n}^{\mathfrak{I}} \end{array}$$

$$\curvearrowleft \underset{B}{\rtimes} \begin{array}{c|c} \not\curvearrowleft & \curvearrowleft \\ \hline \not\mathbb{I} & \mathbb{I} \end{array} = \curvearrowleft \rtimes \overset{*}{B} \begin{array}{c|c} \not\curvearrowleft & \curvearrowleft \\ \hline \not\mathbb{I} & \mathbb{I} \end{array} B$$

$$B = \frac{1}{\sqrt{2}} \begin{array}{c|c} 1 & i \\ \hline i & 1 \end{array} \implies B\mathfrak{I}\overset{*}{B} = i \begin{array}{c|c} \divideontimes & 0 \\ \hline 0 & \divideontimes \end{array} \ *\text{-inv} \not/ {}^{2n}\mathbb{R}_{2n}^{\mathfrak{U}}$$

$$\mathfrak{I} = \begin{array}{c|c} 0 & \divideontimes \\ \hline \divideontimes & 0 \end{array}$$