

$$\mathfrak{D}_n^{\mathbb{F}} \sqsubset \mathfrak{D}_n^{\mathbb{F}} \times \mathfrak{D}_n^{\mathbb{F}} \text{ orth groups}$$

$${}^n\mathbb{C}_n^{\mathfrak{D}} \times {}^n\mathbb{C}_n^{\mathfrak{D}} / {}^n\mathbb{C}_n^{\mathfrak{D}}$$

$${}^n\mathbb{H}_n^{\mathfrak{D}} \times {}^n\mathbb{H}_n^{\mathfrak{D}} / {}^n\mathbb{H}_n^{\mathfrak{D}}$$

$${}^n\mathbb{D}_n^{\mathfrak{D}} \sqsubset {}^n\mathbb{D}_n^{\mathfrak{D}} \times {}^n\mathbb{D}_n^{\mathfrak{D}}$$

$${}^n\mathbb{D}_n^{\mathfrak{D}} \xrightarrow{\begin{array}{c|c} 1 & 0 \\ \hline 0 & -1 \end{array}} {}^n\mathbb{D}_n^{\mathfrak{D}} \times {}^n\mathbb{D}_n^{\mathfrak{D}}$$

$$\text{block } {}^n\mathbb{D}_n^{\mathfrak{D}} \xrightarrow{\begin{array}{c|c} 1 & 0 \\ \hline 0 & -1 \end{array}} {}^n\mathbb{D}_n^{\mathfrak{D}} \times {}^n\mathbb{D}_n^{\mathfrak{D}}$$