

$$\mathbb{K} = \mathbb{R} : \mathbb{C} : \mathbb{H}$$

$$\Gamma \begin{array}{c} \mathfrak{D} \\ \nearrow \\ 0 \end{array} \Gamma$$

$${}^n \mathbb{K}_n^{\mathfrak{D}}$$

$${}^n \mathbb{K}_n = \underset{>}{\mathbb{K}_n^{\mathfrak{U}}} \times \underset{>}{\mathbb{K}_n^{\mathfrak{U}}}$$

$$\Gamma = \tilde{\Gamma} \downarrow$$

$$\tilde{\Gamma} = \left(\Gamma \Gamma^* \right)^{1/2} \geq 0$$

$$\Gamma = \downarrow^* D \Gamma = \underbrace{\downarrow^* D \downarrow^*}_{\downarrow^*} \underbrace{\downarrow^* \Gamma}_{\downarrow^*}$$

$$0 \leq D$$

$$\Gamma \begin{array}{c} \mathfrak{D} \\ \nearrow \\ 0 \end{array} \Gamma$$