

$$\begin{array}{c} \mathbb{K}^d \\ \downarrow \cdot \mathcal{L} \\ \mathcal{L} \end{array}$$

$$\mathcal{L} \cdot \mathcal{L} = \mathcal{L}^j \quad \mathcal{L} = \sum_j \mathcal{L}^j \quad \mathcal{L} \in \mathcal{L}$$

$$\mathcal{L} = \underbrace{\mathcal{L} \cdot \mathcal{L}} \quad \mathcal{L} = \underbrace{\mathcal{L} \cdot \mathcal{L} \cdot \mathcal{L} \dots \mathcal{L} \cdot \mathcal{L} \cdot \mathcal{L}^d}$$

$$\mathcal{L}^j = \underbrace{\mathcal{L} \cdot \mathcal{L}} \quad \mathcal{L}^j = \sum_i \underbrace{\mathcal{L}^i \cdot \mathcal{L}} \quad \mathcal{L}^j$$

$$\mathcal{L} \ni \mathcal{L}_i \quad \text{ONB} \Leftrightarrow \mathcal{L}_i \cdot \mathcal{L}_j^* = \delta^j = \mathcal{L}_i \cdot \mathcal{L}^j$$

$$\mathcal{L}_j^* = \mathcal{L}^j$$

$$\mathcal{L}_i \times \mathcal{L}_j = \mathcal{L}_i \cdot \eta_j \quad \mathcal{L}_j^* = \mathcal{L}_i \cdot \eta_j \quad \mathcal{L}^j = \mathcal{L}_i \cdot \eta^j$$