

$$\begin{array}{ccc}
 + \overset{\hbar}{\underbrace{\hspace{0.5cm}}}_{\infty} \overset{\hbar}{\underbrace{\hspace{0.5cm}}}_{-} \overset{\hbar}{\underbrace{\hspace{0.5cm}}}_{\#} & & \ni \mathfrak{H} \ltimes \\
 \downarrow \mathfrak{F} \mathfrak{A} & & \downarrow \\
 \underbrace{\overset{\hbar}{\underbrace{\hspace{0.5cm}}}_{\infty} \overset{\hbar}{\underbrace{\hspace{0.5cm}}}_{-} \mathbb{R}}_n & & \ni \mathfrak{F} \underbrace{\mathfrak{H} \ltimes \mathfrak{A}}
 \end{array}$$

$$\overbrace{i \mathfrak{F} \mathfrak{H} \ltimes \mathfrak{A}^j} = \mathfrak{A}_i^j$$

$$\mathfrak{H} \ltimes \mathfrak{A}^j = \mathfrak{A}^i \overbrace{i \mathfrak{F} \mathfrak{H} \ltimes \mathfrak{A}^j} = \mathfrak{A}^i \mathfrak{A}_i^j$$

$$\mathfrak{A}^i = \mathfrak{F} \underbrace{\mathfrak{H} \ltimes \mathfrak{A}^i}_\in \in \overbrace{\overset{\hbar}{\underbrace{\hspace{0.5cm}}}_{\infty} \overset{\hbar}{\underbrace{\hspace{0.5cm}}}_{-} \mathbb{R}}^n \quad \text{1-form matrix}$$

$$\overbrace{i \mathfrak{A} \mathfrak{H} \ltimes \mathfrak{V}^j}_ = \mathfrak{A}_i^j$$

$$\mathfrak{H} \ltimes \mathfrak{V}^j = \mathfrak{V}^i \overbrace{i \mathfrak{A} \mathfrak{H} \ltimes \mathfrak{V}^j}_ = \mathfrak{V}^i \mathfrak{A}_i^j$$

$$\mathfrak{A}_i^j = \mathfrak{V}^i \underbrace{\mathfrak{H} \ltimes \mathfrak{V}^j}_\in \in \overbrace{\overset{\hbar}{\underbrace{\hspace{0.5cm}}}_{\infty} \overset{\hbar}{\underbrace{\hspace{0.5cm}}}_{-} \mathbb{R}}^n \quad \text{1-form matrix}$$