

$$\mathbb{T}_\infty \mathbb{T}_h \mathbb{T}_h \mathbb{T}_h \ni \mathbb{h} \mathbb{h}$$

$$\mathbb{T}_h \xrightarrow{\mathbb{h} \mathbb{h}} \mathbb{T}_h$$

$$\mathbb{T}_\infty \mathbb{T}_h \mathbb{T}_h \mathbb{R}^n \ni \mathbb{s}^i = \mathbb{s}^1 \dots \mathbb{s}^n \text{ basis of cotangent fields}$$

$$\mathbb{T}_h \xrightarrow{\mathbb{s}^i} \mathbb{R}^n$$

$$\mathbb{T}_\infty \mathbb{T}_h \mathbb{T}_h \mathbb{R}^n \ni \mathbb{q}^i = \mathbb{q}^1 \dots \mathbb{q}^n \text{ basis of cotangent fields}$$

$$\mathbb{q}^i \in \mathbb{T}_\infty \mathbb{T}_h \mathbb{T}_h \mathbb{T}_h \ni \mathbb{q}^i$$

$${}_i \mathbb{q}^j = {}_i \mathbb{q}^j = {}_i \mathbb{q}^j$$

$${}_i \mathbb{q}^i \times {}_j \mathbb{q}^j = \mathbb{s}_{ij}$$

$$\mathbb{q}^i \times \mathbb{q}^j = \mathbb{h}^{ij}$$

$$\mathbb{q}^i \times \mathbb{q}^j = \eta^{ij}$$

$$\mathbb{T}_\infty \mathbb{T}_h \mathbb{T}_h \mathbb{R}^n \ni \mathbb{s}^i$$

$$\mathbb{s}^i = \mathbb{v}^\mu \mathbb{s}_\mu^i = \mathbb{v}^\mu \mathbb{s}_\mu^i = dx^\mu \mathbb{s}_\mu^i \in \mathbb{T}_h$$

$$\mathbb{v}^\mu = dx^\mu = \mathbb{v}^\mu = \mathbb{s}^i \mathbb{v}_i^\mu$$

$${}_j \mathbb{e}^{-1} = {}_j \mathbb{e}^{-1\nu} \partial = {}_j \mathbb{e}^{-1\nu} \frac{\partial}{\partial x^\nu}$$