

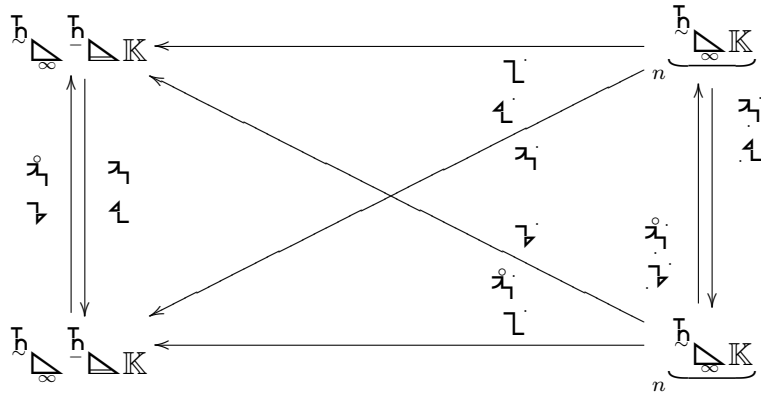
$$\mathbb{h}_{\infty}^{\mathbb{h}} \mathbb{K} \xleftarrow{\quad \mathbb{L} \quad} \underbrace{\mathbb{h}_{\infty}^{\mathbb{h}} \mathbb{K}}_n$$

$\mathbb{h}_{\infty}^{\mathbb{h}} \mathbb{K} \ni \mathbb{L}^j$ dual standard basis $\mathbb{L}^i \star \mathbb{L}^j = \mathbb{L}^i \overset{*}{\eta} \mathbb{L}^j = \mathbb{L}^i \overset{*}{\eta} \mathbb{L}^j = \eta^{ij}$

$$\mathbb{A} = \mathbb{L} \underbrace{\mathbb{L} \mathbb{A}}: \quad \mu \delta^\nu = \mu \mathbb{L} \mathbb{L}^\nu$$

$$\mathbb{A} = \mathbb{L} \underbrace{\mathbb{L} \mathbb{A}}: \quad \mathbb{L}^i \mathbb{L}^j = \delta^j = \mathbb{L}^i \mathbb{L}^j$$

$$\mathbb{L}^*{}^i = \mathbb{L}^i$$



$$\mathbb{L}^i \star_{\mathbb{h}} \mathbb{L}^j = \begin{cases} \mathbb{L}^*{}^i \mathbb{h} \mathbb{L}^j = \mathbb{h}^{ij} \\ \mathbb{L}^*{}^i \mathbb{b} \mathbb{L}^j = \mathbb{L}^i \mathbb{b} \mathbb{L}^j = \mathbb{L}^i \mathbb{b}^j \end{cases}$$

$$\mathbb{h}_{\infty}^{\mathbb{h}} \mathbb{K} \ni \begin{cases} \mathbb{A}^j = \mathbb{A} \mathbb{L}^j \\ \mathbb{A}^j = \mathbb{A} \mathbb{L}^j \end{cases} \text{ dual ONBasis}$$

$$\begin{cases} \mathbb{A}^i = \mathbb{A}^j \mathbb{L}^i \\ \mathbb{A}^i = \mathbb{A}^j \mathbb{L}^i \end{cases}$$

$$\begin{cases} \mathbb{A}^i \mathbb{A}^j \\ \mathbb{A}^i \mathbb{A}^j \end{cases} = \delta^{ij}$$

$$\begin{cases} \mathbb{A}^i \star_{\mathbb{h}} \mathbb{A}^j = \mathbb{A}^i \mathbb{h} \mathbb{A}^j = \mathbb{A}^i \underbrace{\mathbb{A}^*{}^i \mathbb{A}^j}_{\mathbb{A}^i \mathbb{A}^j} = \mathbb{A}^i \mathbb{A}^j \overset{*}{\eta} \mathbb{A}^j = \mathbb{A}^i \mathbb{A}^j \overset{*}{\eta} \mathbb{A}^j = \mathbb{A}^i \mathbb{A}^j \overset{*}{\eta} \mathbb{A}^j = \mathbb{L}^i \mathbb{A}^j \overset{*}{\eta} \mathbb{A}^j \mathbb{L}^j = \mathbb{L}^i \overset{*}{\eta} \mathbb{L}^j = \eta^{ij} \\ \mathbb{A}^i \star_{\mathbb{h}} \mathbb{A}^j = \mathbb{A}^i \mathbb{b} \mathbb{A}^j = \mathbb{A}^i \underbrace{\mathbb{A}^*{}^i \mathbb{A}^j}_{\mathbb{A}^i \mathbb{A}^j} = \mathbb{A}^i \mathbb{A}^j \overset{*}{\eta} \mathbb{A}^j = \mathbb{A}^i \mathbb{A}^j \overset{*}{\eta} \mathbb{A}^j = \mathbb{A}^i \mathbb{A}^j \overset{*}{\eta} \mathbb{A}^j = \mathbb{L}^i \mathbb{A}^j \overset{*}{\eta} \mathbb{A}^j \mathbb{L}^j = \mathbb{L}^i \overset{*}{\eta} \mathbb{L}^j = \eta^{ij} \end{cases}$$

$$\mathbb{A}^i = \mathbb{A}^j \overset{*}{\eta} \mathbb{A}^j = \mathbb{A}^j \overset{*}{\eta} \mathbb{A}^j$$

$$. \gamma = \begin{cases} \overset{\circ}{\mathfrak{z}}_i \mathfrak{z}^j \cdot \gamma \\ \mathfrak{z}^j \cdot \mathfrak{z}^j \cdot \gamma \end{cases} : \quad {}_i \delta^j = \begin{cases} \overset{\circ}{\mathfrak{z}}_i \mathfrak{z}^j \\ \mathfrak{z}^j \cdot \mathfrak{z}^j \end{cases}$$

$$. \mathfrak{z} = \begin{cases} \mathfrak{z}^i \overset{\circ}{\mathfrak{z}}_i \cdot \mathfrak{z} \\ \mathfrak{z}^i \cdot \mathfrak{z}^i \cdot \mathfrak{z} \end{cases} : \quad {}_\mu \delta^\nu = \begin{cases} \mathfrak{z}^i \overset{\circ}{\mathfrak{z}}_i \nu \\ \mathfrak{z}^i \cdot \mathfrak{z}^i \nu \end{cases}$$

$$\mathfrak{z} \cdot \gamma = \begin{cases} \overset{\circ}{\mathfrak{z}}_i \mathfrak{z}^j \cdot \gamma = \overset{\circ}{\mathfrak{z}}_i \mathfrak{z}^j \cdot \gamma \\ \mathfrak{z}^j \cdot \mathfrak{z}^j \cdot \gamma = \mathfrak{z}^j \cdot \mathfrak{z}^j \cdot \gamma \end{cases} \quad \mathfrak{z}^j = \begin{cases} \overset{\circ}{\mathfrak{z}}_i \mathfrak{z}^j = \overset{\circ}{\mathfrak{z}}_i \mathfrak{z}^j \\ \mathfrak{z}^j \cdot \mathfrak{z}^j = \mathfrak{z}^j \cdot \mathfrak{z}^j \end{cases}$$

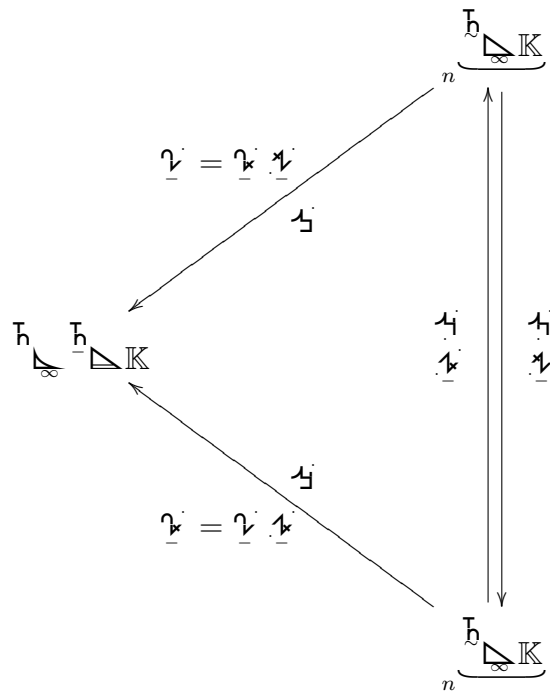
$$\mathfrak{z} \cdot \mathfrak{z} = \begin{cases} \mathfrak{z}^i \overset{\circ}{\mathfrak{z}}_i \cdot \mathfrak{z} = \mathfrak{z}^i \overset{\circ}{\mathfrak{z}}_i \cdot \mathfrak{z} \\ \mathfrak{z}^i \cdot \mathfrak{z}^i \cdot \mathfrak{z} = \mathfrak{z}^i \cdot \mathfrak{z}^i \cdot \mathfrak{z} \end{cases} \quad \mathfrak{z}^\nu = \begin{cases} \mathfrak{z}^i \overset{\circ}{\mathfrak{z}}_i \nu = \mathfrak{z}^i \overset{\circ}{\mathfrak{z}}_i \nu \\ \mathfrak{z}^i \cdot \mathfrak{z}^i \nu = \mathfrak{z}^i \cdot \mathfrak{z}^i \nu \end{cases}$$

$$\begin{cases} \mathfrak{z}^j \cdot \gamma = \mathfrak{z}^j \cdot \gamma = \mathfrak{z}^j \cdot \gamma \\ \mathfrak{z}^j \cdot \mathfrak{z}^j = \mathfrak{z}^j \cdot \mathfrak{z}^j = \mathfrak{z}^j \cdot \mathfrak{z}^j \end{cases} \quad \begin{cases} \mathfrak{z}^j = \mathfrak{z}^j = \mathfrak{z}^j \\ \mathfrak{z}^j = \mathfrak{z}^j = \mathfrak{z}^j \end{cases}$$

$$\begin{cases} \overset{\circ}{\mathfrak{z}}_i \mathfrak{z}^j = \mathfrak{z}^j \cdot \overset{\circ}{\mathfrak{z}}_i = \overset{\circ}{\mathfrak{z}}_i \mathfrak{z}^j \\ \mathfrak{z}^j \cdot \mathfrak{z}^j = \mathfrak{z}^j \cdot \mathfrak{z}^j = \mathfrak{z}^j \cdot \mathfrak{z}^j \end{cases} \quad \begin{cases} \mathfrak{z}^\nu = \mathfrak{z}^\nu = \mathfrak{z}^\nu \\ \mathfrak{z}^\nu = \mathfrak{z}^\nu = \mathfrak{z}^\nu \end{cases}$$

$$\begin{cases} \mathfrak{z}^j \cdot \gamma = \mathfrak{z}^j \cdot \gamma = \mathfrak{z}^j \cdot \gamma \\ \mathfrak{z}^j \cdot \mathfrak{z}^j = \mathfrak{z}^j \cdot \mathfrak{z}^j = \mathfrak{z}^j \cdot \mathfrak{z}^j \end{cases} \quad \begin{cases} \mathfrak{z}^j = \mathfrak{z}^j = \mathfrak{z}^j \\ \mathfrak{z}^j = \mathfrak{z}^j = \mathfrak{z}^j \end{cases}$$

$$\begin{cases} \overset{\circ}{\mathfrak{z}}_i \mathfrak{z}^j = \mathfrak{z}^j \cdot \overset{\circ}{\mathfrak{z}}_i = \overset{\circ}{\mathfrak{z}}_i \mathfrak{z}^j \\ \mathfrak{z}^j \cdot \mathfrak{z}^j = \mathfrak{z}^j \cdot \mathfrak{z}^j = \mathfrak{z}^j \cdot \mathfrak{z}^j \end{cases} \quad \begin{cases} \mathfrak{z}^\nu = \mathfrak{z}^\nu = \mathfrak{z}^\nu \\ \mathfrak{z}^\nu = \mathfrak{z}^\nu = \mathfrak{z}^\nu \end{cases}$$



$\mathfrak{h} \ltimes_{\infty} \mathfrak{h} \ltimes_{\infty} \mathbb{K} \leftarrow \gamma^{\nu}$ dual holonomic basis
 $\cdot 1 = \cdot \underbrace{\gamma^{\mu} \cdot \gamma^{\nu}} \cdot 1: \quad \mu \delta^{\nu} = \mu \cdot \gamma^{\nu}$

$$\begin{cases} \mathfrak{A}^i \cdot \mathfrak{A} = \mathfrak{A}^i \mathfrak{A} \\ \mathfrak{A}^i \cdot \mathfrak{A} = \mathfrak{A}^i \mathfrak{A} \end{cases} \begin{cases} \mathfrak{A}^j = \mathfrak{A}^\lambda \mathfrak{A}^j \\ \mathfrak{A}^j = \mathfrak{A}^\lambda \mathfrak{A}^j \end{cases}$$

$$\mathfrak{A}^i \cdot \mathfrak{A} = \begin{cases} \mathfrak{A}^i \mathfrak{A}^k \\ \mathfrak{A}^i \mathfrak{A}^k \end{cases} : \mathfrak{A}^\nu = \begin{cases} \mathfrak{A}^k \mathfrak{A}^\nu \\ \mathfrak{A}^k \mathfrak{A}^\nu \end{cases}$$

$$\begin{cases} \mathfrak{A}^i \cdot \mathfrak{A} = \mathfrak{A}^\mu \mathfrak{A}^i \\ \mathfrak{A}^i \cdot \mathfrak{A} = \mathfrak{A}^\mu \mathfrak{A}^i \end{cases} \begin{cases} \mathfrak{A}^j = \mathfrak{A}^\mu \mathfrak{A}^j \\ \mathfrak{A}^j = \mathfrak{A}^\mu \mathfrak{A}^j \end{cases}$$

$$\begin{cases} \mathfrak{A}^i \cdot \mathfrak{A} = \mathfrak{A}^i \mathfrak{A} \\ \mathfrak{A}^i \cdot \mathfrak{A} = \mathfrak{A}^i \mathfrak{A} \end{cases} \begin{cases} \mathfrak{A}^\nu = \mathfrak{A}^i \mathfrak{A}^\nu \\ \mathfrak{A}^\nu = \mathfrak{A}^i \mathfrak{A}^\nu \end{cases}$$

