

$$\underbrace{\mathfrak{h}^\infty}_{\mathfrak{h}} \triangleleft \mathfrak{C} \xleftarrow{\mathbb{L}} \underbrace{\mathfrak{h}^\infty}_{n|n} \triangleleft \mathfrak{C}$$

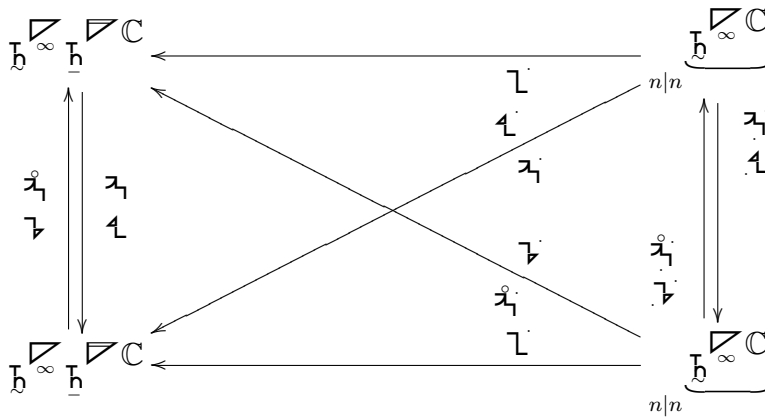
$$\underbrace{\mathfrak{h}^\infty}_{\mathfrak{h}} \triangleleft \mathfrak{C} \ni \mathbb{L}^j \quad \text{dual standard basis}$$

$$\mathbb{L}^i \times \mathbb{L}^j = \overset{*}{\mathbb{L}}^i \underset{\circ}{\eta} \mathbb{L}^j = \underset{i}{\mathbb{L}} \underset{\circ}{\eta} \mathbb{L}^j = \eta^{ij}$$

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

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

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



$$\mathbb{L}^i \times_{\mathfrak{h}} \mathbb{L}^j = \begin{cases} \overset{*}{\mathbb{L}}^i \mathfrak{h} \mathbb{L}^j = \mathfrak{h}^{ij} \\ \overset{*}{\mathbb{L}}^i \mathfrak{b} \mathbb{L}^j = \underset{i}{\mathbb{L}} \mathfrak{b} \mathbb{L}^j = \underset{i}{\mathfrak{b}}^j \end{cases}$$

$$\underbrace{\mathfrak{h}^\infty}_{\mathfrak{h}} \triangleleft \mathfrak{C} \ni \begin{cases} \mathbb{A}^j = \mathbb{A} \mathbb{L}^j \\ \mathbb{A}^j = \mathbb{A} \mathbb{L}^j \end{cases} \quad \text{dual ONBasis}$$

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

$$\begin{cases} \underset{i}{\mathbb{A}} \mathbb{A}^j \\ \underset{i}{\mathfrak{b}} \mathbb{A}^j \end{cases} = \underset{i}{\delta}^j$$

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

$$\underline{b} = \bar{x}_i^* \eta^i \bar{x}_j = \bar{x}_i^* \eta^{ij} \bar{x}_j$$

$$\underline{a} = \begin{cases} \bar{x}_i \underline{a}_i \\ \underline{b} \underline{a}_i \end{cases} : \quad \delta^j = \begin{cases} \bar{x}_i \bar{x}_i^j \\ \underline{b} \underline{a}_i^j \end{cases}$$

$$\underline{a} = \begin{cases} \bar{x}_i \bar{x}_i^{\circ} \\ \underline{a} \underline{b} \bar{x}_i^{\circ} \end{cases} : \quad \delta^\nu = \begin{cases} \bar{x}_i \bar{x}_i^\nu \\ \underline{a} \underline{b} \bar{x}_i^\nu \end{cases}$$

$$\underline{a} \underline{a} = \begin{cases} \bar{x}_i \bar{x}_i^{\circ} = \bar{x}_i \bar{x}_i^{\circ} \\ \underline{b} \underline{a}_i^{\circ} = \underline{b} \underline{a}_i^{\circ} \end{cases} : \quad \underline{a}^j = \begin{cases} \bar{x}_i \bar{x}_i^j = \bar{x}_i^\lambda \bar{x}_i^j \\ \underline{b} \underline{a}_i^j = \underline{b}^\lambda \underline{a}_i^j \end{cases}$$

$$\underline{a} \bar{x}_i^{\circ} = \begin{cases} \bar{x}_i \bar{x}_i^{\circ} = \bar{x}_i \bar{x}_i^{\circ} \\ \underline{a} \underline{b} \bar{x}_i^{\circ} = \underline{a} \underline{b} \bar{x}_i^{\circ} \end{cases} : \quad \underline{a}^\nu = \begin{cases} \bar{x}_i \bar{x}_i^\nu = \bar{x}_i^k \bar{x}_i^\nu \\ \underline{a} \underline{b} \bar{x}_i^\nu = \underline{a}^k \underline{b} \bar{x}_i^\nu \end{cases}$$

$$\begin{cases} \bar{x}_i \underline{a}_i = \underline{a} \bar{x}_i = \bar{x}_i \underline{a}_i \\ \underline{a} \underline{a}_i = \underline{a} \underline{a}_i = \underline{a} \underline{a}_i \end{cases} \begin{cases} \bar{x}_i^j = \underline{a}^\lambda \bar{x}_i^j = \bar{x}_i \underline{a}_i^j \\ \underline{a}_i^j = \underline{a}^\lambda \underline{a}_i^j = \underline{a} \underline{a}_i^j \end{cases}$$

$$\begin{cases} \bar{x}_i \bar{x}_i^{\circ} = \underline{a} \bar{x}_i^{\circ} = \bar{x}_i \underline{a}_i^{\circ} \\ \underline{b} \bar{x}_i^{\circ} = \underline{a} \underline{b} \bar{x}_i^{\circ} = \underline{b} \underline{a}_i^{\circ} \end{cases}$$

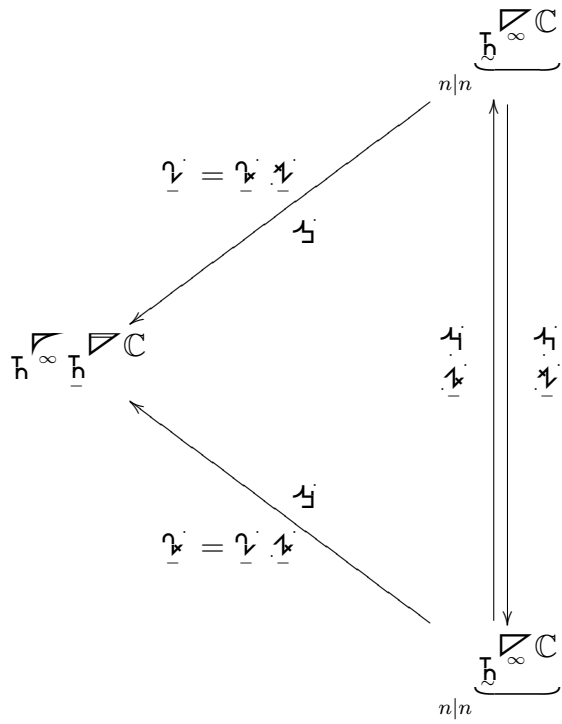
$$\begin{cases} \bar{x}_i^\nu = \underline{a}^k \bar{x}_i^\nu = \bar{x}_i \underline{a}_i^\nu \\ \underline{b} \bar{x}_i^\nu = \underline{a}^k \underline{b} \bar{x}_i^\nu = \underline{b} \underline{a}_i^\nu \end{cases}$$

$$\begin{cases} \bar{x}_i \underline{a}_i = \underline{a} \bar{x}_i = \bar{x}_i \underline{a}_i \\ \underline{a} \underline{a}_i = \underline{a} \underline{a}_i = \underline{a} \underline{a}_i \end{cases}$$

$$\begin{cases} \bar{x}_i^j = \underline{a}^\mu \bar{x}_i^j = \bar{x}_i \underline{a}_i^j \\ \underline{a}_i^j = \underline{a}^\mu \underline{a}_i^j = \underline{a} \underline{a}_i^j \end{cases}$$

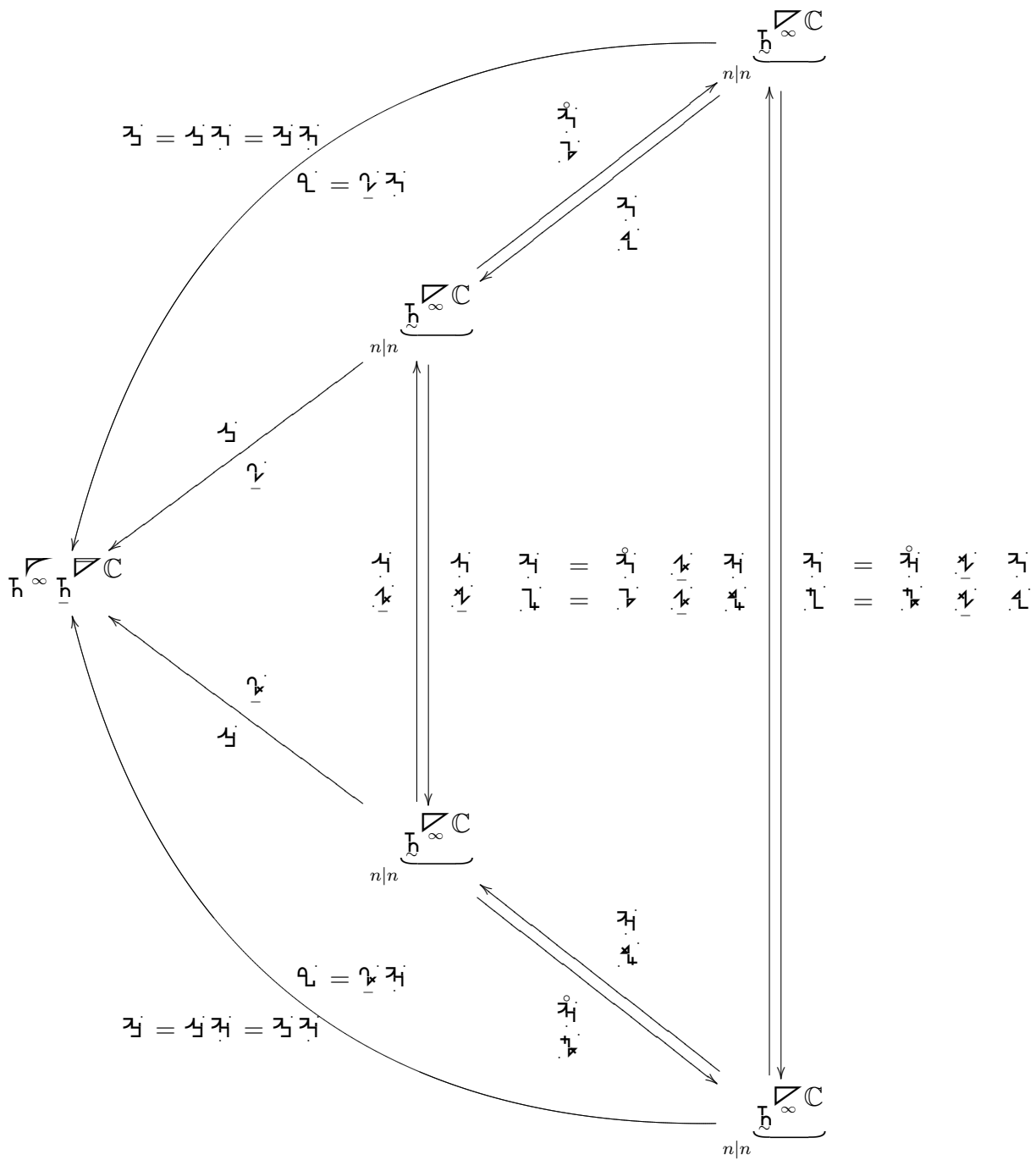
$$\begin{cases} \bar{x}_i \bar{x}_i^{\circ} = \underline{a} \bar{x}_i^{\circ} = \bar{x}_i \underline{a}_i^{\circ} \\ \underline{b} \bar{x}_i^{\circ} = \underline{a} \underline{b} \bar{x}_i^{\circ} = \underline{b} \underline{a}_i^{\circ} \end{cases}$$

$$\begin{cases} \bar{x}_i^\nu = \underline{a} \bar{x}_i^\nu = \bar{x}_i \underline{a}_i^\nu \\ \underline{b} \bar{x}_i^\nu = \underline{a} \underline{b} \bar{x}_i^\nu = \underline{b} \underline{a}_i^\nu \end{cases}$$



$\underline{\underline{h}} \underline{\underline{\infty}} \underline{\underline{\triangle}} \underline{\underline{C}} \ni \underline{\underline{\gamma}}^\nu$ dual holonomic basis

$$\underline{\underline{\nu}} = \underline{\underline{\nu}} \underline{\underline{\nu}} : \quad \underline{\underline{\mu}} \delta^\nu = \underline{\underline{\mu}} \underline{\underline{\nu}}^\nu$$



$$\mathbb{H}_\infty \mathbb{H} \mathbb{C} \ni \begin{cases} \mathcal{R}^j \\ \mathcal{L}^j \end{cases} \text{ dual ONbasis}$$

$$\mathcal{L}^i \underset{\mathbb{H}}{\times} \mathcal{L}^j = \eta^{ij}$$

$$\gamma = \begin{cases} \overline{\alpha \beta} \\ \overline{\gamma \delta} \end{cases} : \delta^j = \begin{cases} \alpha^j \\ \beta^j \end{cases}$$

$$\begin{cases} \alpha = \gamma \beta \\ \beta = \gamma \delta \end{cases} \begin{cases} \alpha^j = \gamma^\lambda \beta^j \\ \beta^j = \gamma^\lambda \delta^j \end{cases}$$

$$\gamma^k = \begin{cases} \overline{\alpha^k} \\ \overline{\beta^k} \end{cases} : \gamma^\nu = \begin{cases} \alpha^k \\ \beta^k \end{cases}$$

$$\begin{cases} \alpha = \mu \beta \\ \beta = \mu \delta \end{cases} \begin{cases} \alpha^j = \mu \beta^j \\ \beta^j = \mu \delta^j \end{cases}$$

$$\begin{cases} \alpha^k = \mu \gamma^k \\ \beta^k = \mu \delta^k \end{cases} \begin{cases} \alpha^\nu = \mu \gamma^\nu \\ \beta^\nu = \mu \delta^\nu \end{cases}$$

