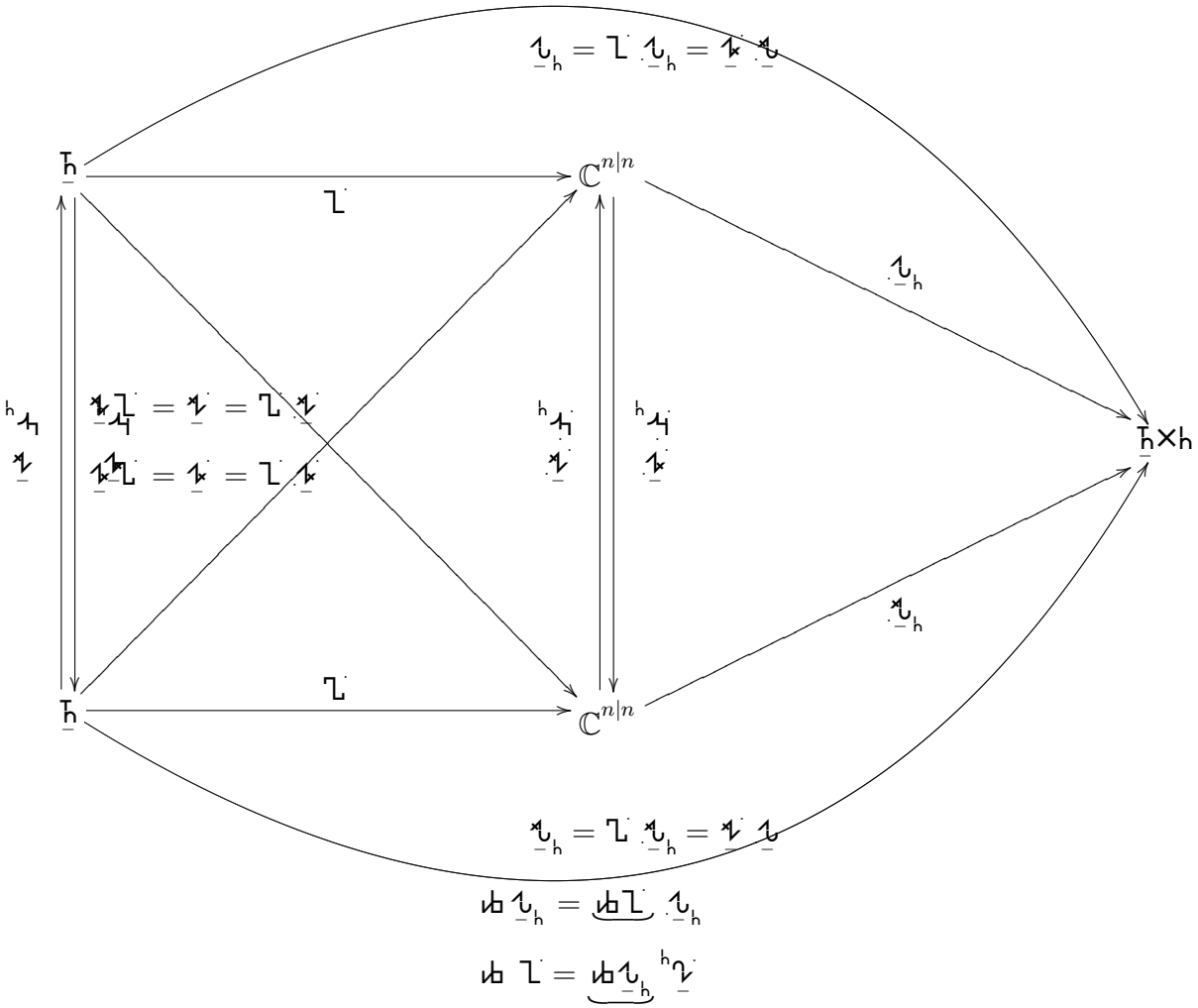
$$\begin{array}{ccc} & \underline{X} & \\ & \uparrow\uparrow & \\ {\scriptstyle h}Z & & {\scriptstyle h}\mathring{Z} \\ Y & & Z \\ & \downarrow\downarrow & \\ & \underline{Y} & \end{array}$$

$$\mathcal{A} = \begin{cases} \underbrace{\mathcal{A}^{h}\mathring{Z}}\,{}^{h}Z \\ \underbrace{\mathcal{A}\,Z}\,Y \end{cases}$$

$$\mathcal{B} = \begin{cases} \underbrace{\mathcal{B}^{h}Z}\,{}^{h}\mathring{Z} \\ \underbrace{\mathcal{A}\,Y}\,Z \end{cases}$$

$$\begin{array}{c} \underset{\sim}{X} \xrightarrow[\mathbb{L} = Y\eta^{*}\mathbb{L}]{Y = Z\eta^{*}Y} \mathbb{C}\big|\,\underline{X} \\ \\ \mathcal{A}' \boxtimes \mathcal{A} = \mathcal{A}'\eta^{*}\mathcal{A} \end{array}$$

$$\mathcal{B}' \overset{h}{\boxtimes} \mathcal{B} = \begin{cases} \mathcal{B}'^{h}Z\mathcal{B} &= \underbrace{\mathcal{B}'^{h}Z} \boxtimes \underbrace{\mathcal{B}^{h}Z} = \mathcal{B}'^{h}Z\eta\overbrace{\mathcal{B}^{h}Z}^{*} = \mathcal{B}\underbrace{{}^{h}Z\eta^{h}Z}\mathcal{B}' = \underbrace{\mathcal{B}'^{h}Z}\eta\overbrace{\mathcal{B}^{h}Z}^{*} \\ \mathcal{B}'^{h}\mathbb{L}\mathcal{B} &= \underbrace{\mathcal{B}Y}\eta\overbrace{\mathcal{B}Y}^{*} = \mathcal{B}Y\eta^{*}Y\mathcal{B} = \mathcal{B}\underbrace{Y\eta^{*}Y}\mathcal{B} \end{cases}$$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$$\mathcal{A}\cdot\mathcal{L}=\begin{cases}\underbrace{\mathcal{A}^{\mathbb{h}}\mathcal{Z}^{\mathbb{h}}}\cdot\mathcal{Z}\\ \underbrace{\mathcal{A}\mathcal{G}_{\mathbb{h}}}\cdot\mathcal{G}^{\mathbb{h}}\end{cases}$$

$$\begin{cases}\mathcal{A}^{\mathbb{h}}\mathcal{Z} &= \underbrace{\mathcal{A}\mathcal{L}}\cdot\mathcal{Z}^{\mathbb{h}}=\underbrace{\mathcal{A}^{\mathbb{h}}\mathring{\mathcal{Z}}}\cdot\bar{\mathcal{N}}_{\mathbb{h}}\\ \mathcal{A}\mathcal{G}_{\mathbb{h}} &= \underbrace{\mathcal{A}\mathcal{L}}\cdot\mathcal{G}_{\mathbb{h}}=\underbrace{\mathcal{A}\mathcal{F}}\cdot\bar{\mathcal{N}}_{\mathbb{h}}\end{cases}$$

$$\begin{cases}\mathcal{A}^{\mathbb{h}}\mathring{\mathcal{Z}} &= \underbrace{\mathcal{A}^{\mathbb{h}}\mathcal{Z}}\cdot\bar{\mathcal{V}}_{\mathbb{h}}\\ \mathcal{A}\mathcal{F} &= \underbrace{\mathcal{A}\mathcal{G}_{\mathbb{h}}}\cdot\bar{\mathcal{V}}_{\mathbb{h}}\end{cases}$$

$$\mathcal{W}\bar{\mathcal{N}}_{\mathbb{h}}=\begin{cases}\underbrace{\mathcal{W}^{\mathbb{h}}\mathcal{Z}}\cdot\mathcal{Z}^{\mathbb{h}}\\ \underbrace{\mathcal{W}\mathcal{F}}\cdot\mathcal{G}_{\mathbb{h}}\end{cases}$$

$$\begin{cases}\mathcal{W}^{\mathbb{h}}\mathcal{Z} &= \underbrace{\mathcal{W}\bar{\mathcal{N}}_{\mathbb{h}}}\cdot\mathcal{Z}^{\mathbb{h}}\\ \mathcal{W}\mathcal{F} &= \underbrace{\mathcal{W}\bar{\mathcal{N}}_{\mathbb{h}}}\cdot\mathcal{G}^{\mathbb{h}}\end{cases}$$