$$\begin{tikzcd}
\underline{\mathfrak{h}} \arrow[d, shift right, "{}^{\mathfrak{h}}\mathfrak{x}_{\mathfrak{l}}"'] \arrow[d, phantom, "\mathfrak{l}"] & \mathbb{C} \arrow[d, shift left, "{}^{\mathfrak{h}}\mathring{\mathfrak{x}}_{\mathfrak{l}}"] \arrow[d, phantom, "\mathfrak{l}"] \\
\underline{\mathfrak{h}} & \mathbb{C}
\end{tikzcd}$$

$$\mathfrak{l} = {}^{\mathfrak{h}}\mathring{\mathfrak{x}}_{\mathfrak{l}}\,\underbrace{{}^{\mathfrak{h}}\mathfrak{x}_{\mathfrak{l}}\mathfrak{l}}$$

$$\mathfrak{r} = \begin{cases} {}^{\mathfrak{h}}\mathfrak{x}_{\mathfrak{l}}\,\underbrace{{}^{\mathfrak{h}}\mathring{\mathfrak{x}}_{\mathfrak{l}}\mathfrak{r}} \\ \mathfrak{l}\,\underbrace{\mathfrak{l}\mathfrak{r}} \end{cases}$$

$$\mathfrak{l} = \begin{cases} {}^{\mathfrak{h}}\mathring{\mathfrak{x}}_{\mathfrak{l}}\,\underbrace{{}^{\mathfrak{h}}\mathfrak{x}_{\mathfrak{l}}\mathfrak{l}} \\ \mathfrak{l}\,\underbrace{\mathfrak{l}\mathfrak{l}} \end{cases}$$

$$\underset{\sim}{\mathfrak{h}} \xrightarrow[\mathfrak{l}]{\mathring{\mathfrak{x}}_{\mathfrak{l}}} \mathsf{C}|\,\underline{\mathfrak{h}} = \mathsf{C}|\,\underline{\mathfrak{h}}^{\sharp}$$

$$\mathfrak{l} \mathbin{\underline{\mathbf{x}}} \mathfrak{l}' = \overset{*}{\mathfrak{l}}\,\mathring{\eta}\,\mathfrak{l}'$$

$$\mathfrak{l}_{\mathfrak{h}} = {}^{\mathfrak{h}}\mathring{\mathbb{L}} = \begin{cases} {}^{\mathfrak{h}}\bar{\mathfrak{x}}_{\mathfrak{l}}^{*}\mathring{\eta}\,{}^{\mathfrak{h}}\mathring{\mathfrak{x}}_{\mathfrak{l}} \\ \overset{*}{\mathfrak{l}}\mathring{\eta}\,\mathfrak{l} \qquad = \overbrace{\mathfrak{l}\eta\overset{*}{\mathfrak{l}}}^{\circ} \end{cases}$$

$$\mathfrak{r} \underset{\mathfrak{h}}{\mathbin{\underline{\mathbf{x}}}} \mathfrak{r}' = \begin{cases} \underbrace{{}^{\mathfrak{h}}\mathring{\mathfrak{x}}_{\mathfrak{l}}\mathfrak{r}} \mathbin{\underline{\mathbf{x}}} \underbrace{{}^{\mathfrak{h}}\mathring{\mathfrak{x}}_{\mathfrak{l}}\mathfrak{r}'} & = \overbrace{{}^{\mathfrak{h}}\mathring{\mathfrak{x}}_{\mathfrak{l}}\mathfrak{r}}^{*}\mathring{\eta}\,\underbrace{{}^{\mathfrak{h}}\mathring{\mathfrak{x}}_{\mathfrak{l}}\mathfrak{r}'} = \overset{*}{\mathfrak{r}}\,{}^{\mathfrak{h}}\bar{\mathfrak{x}}_{\mathfrak{l}}^{*}\mathring{\eta}\,{}^{\mathfrak{h}}\mathring{\mathfrak{x}}_{\mathfrak{l}}\mathfrak{r}' = \overset{*}{\mathfrak{r}}\,\underbrace{{}^{\mathfrak{h}}\bar{\mathfrak{x}}_{\mathfrak{l}}^{*}\mathring{\eta}\,{}^{\mathfrak{h}}\mathring{\mathfrak{x}}_{\mathfrak{l}}}\mathfrak{r}' = \overset{*}{\mathfrak{r}}\,{}^{\mathfrak{h}}\mathfrak{l}_{\mathfrak{l}}\,\mathfrak{r}' \\ \underbrace{\mathfrak{l}\mathfrak{r}} \mathbin{\underline{\mathbf{x}}} \underbrace{\mathfrak{l}\mathfrak{r}'} & = \overbrace{\mathfrak{l}\mathfrak{r}}^{*}\mathring{\eta}\,\underbrace{\mathfrak{l}\mathfrak{r}} = \overset{*}{\mathfrak{r}}\,\overset{*}{\mathfrak{l}}\mathring{\eta}\,\mathfrak{l}\mathfrak{r}' \end{cases}$$

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