Variables and annotations

$$\frac{\Gamma(x) = A \quad 0\,\Gamma + x \vdash \langle 0\,\Gamma + x \rangle A \rightsquigarrow B \dashv \Gamma'}{\Gamma \vdash_{\mathtt{c}} x \Rightarrow B \dashv \Gamma'}$$

$$\frac{\Gamma(x) = A \quad 0\,\Gamma \vdash \langle 0\,\Gamma \rangle A \rightsquigarrow B \dashv \Gamma'}{\Gamma \vdash_{\mathtt{nc}} x \Rightarrow B \dashv \Gamma'}$$

$$\frac{\Gamma \vdash A \Rightarrow \mathtt{Type}_r \dashv \Gamma_1 \qquad \begin{array}{l} 0\,\Gamma_1, 0\,\Delta, \square : A \vdash_i e \Rightarrow A' \dashv \Gamma_2 \\ \Gamma_2 \vdash \langle \Gamma_2 \rangle A' \rightsquigarrow B \dashv \Gamma_3 \end{array}}{\Gamma, \square, \Delta \vdash_i (e : A) \Rightarrow B \dashv \Gamma_3 + \Gamma_1, \Delta}$$

Stationary rules

$$\frac{\Gamma, \Delta, a, \square : A \vdash_i e \Rightarrow A' \dashv \Gamma', a, \Theta}{\Gamma, \square : \forall\{a\}.\, A, \Delta \vdash_i e \Rightarrow \forall\{a\}.\, A \dashv \Gamma'}$$

$$\frac{0\,\Gamma, 0\,\Delta, \square : A \vdash_i e \Rightarrow A' \dashv \Gamma'}{\Gamma, \square : !_r A, \Delta \vdash_i e \Rightarrow !_r A \dashv r\,\Gamma' + \Gamma, \Delta}$$

Functions

$$\frac{\Gamma, \Delta, 0\, x : A, \square : B \vdash_i e \Rightarrow B' \dashv \Gamma_1, r\, x : A, \Theta \quad \Gamma_1 \vdash A \Leftarrow \mathtt{Type}_r \dashv \Gamma_2}{\Gamma, \square : A \to B, \Delta \vdash_i \lambda\, x.\, e \Rightarrow A \to B \dashv \Gamma_2}$$

$$\frac{\begin{array}{l}\Gamma\left[\hat{a}_1, \hat{a}_2, \hat{a} = \hat{a}_1 \to \hat{a}_2\right], \Delta, 0\, x : \hat{a}_1, \square : \hat{a}_2 \vdash_i e \Rightarrow A \dashv \Gamma_1, r\, x : \hat{a}_1, \Theta \\ \Gamma_1 \vdash \hat{a}_1 \Leftarrow \mathtt{Type}_r \dashv \Gamma_2\end{array}}{\Gamma\left[\hat{a}\right], \square : \hat{a}, \Delta \vdash_i \lambda\, x.\, e \Rightarrow \hat{a} \dashv \Gamma_2}$$

$$\frac{\begin{array}{l}\Gamma, \blacktriangleright_{\hat{a}}, \hat{a}, 0\, x : \hat{a}, \square \vdash_i e \Rightarrow A \dashv \Gamma_1, r\, x : \hat{a}, \Gamma_4 \\ \Gamma_1 \vdash \hat{a} \Leftarrow \mathtt{Type}_r \dashv \Gamma_2, \blacktriangleright_{\hat{a}}, \Gamma_3 \\ B = \forall\{\mathtt{unsolved}(\Gamma_3)\}.\, \langle \Gamma_3 \rangle (\hat{a} \to \forall\{\mathtt{unsolved}(\Gamma_4)\}.\, \langle \Gamma_4 \rangle A)\end{array}}{\Gamma, \square, \Delta \vdash_i \lambda\, x.\, e \Rightarrow B \dashv \Gamma_2}$$