

QuickLook

Old rules

$$\frac{\Gamma, x : A \vdash e \Leftarrow H \Rightarrow B}{\Gamma \vdash \lambda x. e \Leftarrow A \rightarrow H \Rightarrow A \rightarrow B} \text{ABS}$$

$$\frac{\Gamma \vdash f \Leftarrow ? \rightarrow H \Rightarrow A \rightarrow B \quad \Gamma \vdash a \Leftarrow A \Rightarrow A}{\Gamma \vdash f a \Leftarrow H \Rightarrow B} \text{APP}$$

$$\frac{\Gamma \vdash a \Leftarrow ? \Rightarrow A \quad \Gamma \vdash f \Leftarrow A \rightarrow H \Rightarrow A \rightarrow B}{\Gamma \vdash f a \Leftarrow H \Rightarrow B} \text{ALTAPP}$$

Quick Look

$$\frac{(x : A) \in \Gamma \quad H \sqsubseteq A}{\Gamma \vdash x \leftarrow H \Rightarrow A} \text{QL-VAR}$$

$$\frac{}{\Gamma \vdash (e : H_1) \leftarrow H_2 \Rightarrow H_1 \sqcup H_2} \text{QL-ANNOT}$$

$$\frac{e \neq x \quad e \neq (e' : H')}{\Gamma \vdash e \leftarrow H \Rightarrow H} \text{QL-FAIL}$$

New rules

$$\frac{\Gamma \vdash f \Leftarrow ? \rightarrow H \Rightarrow H_A \rightarrow H_B \quad \begin{array}{l} \Gamma \vdash a \Leftarrow H_A \Rightarrow A \\ \Gamma \vdash f \Leftarrow A \rightarrow H_B \Rightarrow A \rightarrow B \end{array}}{\Gamma \vdash f \ a \Leftarrow H \Rightarrow B} \text{QL-APP}$$