$$vars, n, a, x, y, z, w, m, o$$

 $ivar, i, k, j, l$
 $const, b$

$$\begin{array}{cccc} \Delta & & & & \\ & | & \cdot \\ & | & X \\ & | & \Delta_1, \Delta_2 \\ & | & (\Delta) \\ & | & \Delta \end{array}$$

$\Delta \vdash_{\mathcal{A}} X$

$$\overline{X \vdash_{\mathcal{A}} X} \quad A_VAR$$

$$\overline{\bot_{\mathcal{A}} I} \quad A_IR$$

$$\frac{\Delta \vdash_{\mathcal{A}} X}{\Delta, I \vdash_{\mathcal{A}} X} \quad A_IL$$

$$\frac{\Delta_1 \vdash_{\mathcal{A}} X \quad \Delta_2 \vdash_{\mathcal{A}} Y}{\Delta_1, \Delta_2 \vdash_{\mathcal{A}} X \trianglerighteq Y} \quad A_TR$$

$$\frac{X, Y \vdash_{\mathcal{A}} Z}{X \trianglerighteq Y \vdash_{\mathcal{A}} Z} \quad A_TL$$

$$\frac{\Delta, X \vdash_{\mathcal{A}} Y}{\Delta \vdash_{\mathcal{A}} X \rightharpoonup Y} \quad A_IRR$$

$$\frac{\Delta_1 \vdash_{\mathcal{A}} X \quad \Delta_2, Y \vdash_{\mathcal{A}} Z}{\Delta_1, \Delta_2, X \rightharpoonup Y \vdash_{\mathcal{A}} Z} \quad A_IRL$$

$$\frac{\Delta_1 \vdash_{\mathcal{A}} X \quad \Delta_2, Y \vdash_{\mathcal{A}} Z}{\Delta_1, \Delta_2, X \rightharpoonup Y \vdash_{\mathcal{A}} Z} \quad A_IRL$$

$$\frac{\Delta, X, Y \vdash_{\mathcal{A}} Z \quad \Delta \neq \emptyset}{\Delta, X \trianglerighteq Y \vdash_{\mathcal{A}} Z} \quad A_ASSOCL$$

$$\begin{array}{ccc} X, Y, \Delta \vdash_{\mathcal{A}} Z & \Delta \neq \emptyset \\ \hline X \trianglerighteq Y, \Delta \vdash_{\mathcal{A}} Z & & & \\ \hline \Delta; . \vdash_{\mathcal{L}} A & & & \\ \hline \Delta \vdash_{\mathcal{A}} \mathsf{F} A & & & \\ \end{array} \quad \text{A_ASSOCR}$$

 $\Delta; \Gamma \vdash_{\mathcal{L}} A$

Definition rules: 25 good 0 bad Definition rule clauses: 46 good 0 bad