

$$\overline{\Gamma, A, \Delta \rightarrow A, A, \Xi} \text{ (Axiom)}$$

$$\frac{\Gamma, A, B, \Delta \rightarrow A}{\Gamma, A \wedge B, \Delta \rightarrow A} (\wedge \rightarrow) \quad \frac{\Gamma \rightarrow \Delta, A, A \quad \Gamma \rightarrow \Delta, B, A}{\Gamma \rightarrow \Delta, A \wedge B, A} (\rightarrow \wedge)$$

$$\frac{\Gamma, A, \Delta \rightarrow A \quad \Gamma, B, \Delta \rightarrow A}{\Gamma, A \vee B, \Delta \rightarrow A} (\vee \rightarrow) \quad \frac{\Gamma \rightarrow \Delta, A, B, A}{\Gamma \rightarrow \Delta, A \vee B, A} (\rightarrow \vee)$$

$$\frac{\Gamma, A \rightarrow A, \Delta \quad \Gamma, B, A \rightarrow \Delta}{\Gamma, A \Rightarrow B, A \rightarrow \Delta} (\Rightarrow \rightarrow) \quad \frac{\Gamma, A \rightarrow \Delta, B, A}{\Gamma \rightarrow \Delta, A \Rightarrow B, A} (\rightarrow \Rightarrow)$$

$$\frac{\Gamma, \Delta \rightarrow A, A}{\Gamma, \neg A, \Delta \rightarrow A} (\neg \rightarrow) \quad \frac{A, \Gamma \rightarrow \Delta, A}{\Gamma \rightarrow \Delta, \neg A, A} (\rightarrow \neg)$$

$$\frac{\Gamma, A \Rightarrow B, B \Rightarrow A, \Delta \rightarrow A}{\Gamma, A \Leftrightarrow B, \Delta \rightarrow A} (\Leftrightarrow \rightarrow) \quad \frac{\Gamma \rightarrow \Delta, A \Rightarrow B \wedge B \Rightarrow A, A}{\Gamma \rightarrow \Delta, A \Leftrightarrow B, A} (\Leftrightarrow \wedge)$$