Kalkul auf $\overline{\overline{\mathcal{P}\overline{O \cup X}}} \ni A{:}B{:}C$

0-stellig $\overline{\overline{\mathcal{P}\overline{O \cup X}}} =$

$$A \underset{0}{\rightarrow} A$$

$$A \underset{1}{\rightarrow} \underbrace{B \otimes A}$$

$$\underbrace{A \rightarrow B} \underset{2}{\rightarrow} \underbrace{\bar{B} \rightarrow \bar{A}}$$

$$\underbrace{A \wedge \bar{A}} \underset{5}{\rightarrow} B\colon \quad B \overset{5}{\rightarrow} \underbrace{A \vee \bar{A}}$$

$$A \rightarrow \underbrace{A \vee B} \leftarrow B\colon \quad A \leftarrow \underbrace{A \wedge B} \rightarrow B$$

$$\underbrace{A \rightarrow B} \underset{6}{\rightarrow} \overbrace{\underbrace{B \rightarrow C} \rightarrow \underbrace{A \rightarrow C}}\colon \quad \overbrace{A \rightarrow \underbrace{B \rightarrow C}} \overset{6}{\rightarrow} \overbrace{\underbrace{A \rightarrow C} \rightarrow \underbrace{B \rightarrow C}}$$

$$\overbrace{\underbrace{A \rightarrow C} \rightarrow \underbrace{B \rightarrow C}} \underset{7}{\rightarrow} \overbrace{\underbrace{A \vee B} \rightarrow C}\colon \quad \overbrace{\underbrace{C \rightarrow A} \rightarrow \underbrace{C \rightarrow B}} \overset{7}{\rightarrow} \overbrace{C \rightarrow \underbrace{A \wedge B}}$$

$$\overbrace{\underbrace{A \wedge B} \vee C} \leftrightarrow \overbrace{\underbrace{A \vee C} \wedge \underbrace{B \vee C}}\colon \quad \overbrace{\underbrace{A \vee B} \wedge C} \leftrightarrow \overbrace{\underbrace{A \wedge C} \vee \underbrace{B \wedge C}}$$

$$\overbrace{\bigvee_x A} \leftrightarrow \overline{\bigwedge_x \bar{A}}\colon \quad x \in X$$

$$\overbrace{\bigwedge_x A} \rightarrow \overbrace{\iota_x^t \bigcirc A}\colon \quad t \in \overline{O \cup X}\colon \quad X \xrightarrow[\text{id Bel}]{\iota} \overline{O \cup X}$$

1-stellig $\begin{cases} A|\underbrace{\gamma \bigcirc A}\colon \quad \gamma \in \overline{O \cup X}^X \\ \underbrace{A \rightarrow \overbrace{\iota_x^y \bigcirc B}}|\underbrace{A \rightarrow \overbrace{\bigwedge_x B}}\colon \quad x \neq y \notin |A| \cup |B| \end{cases}$

2-stellig modus ponens $A|\underbrace{A \rightarrow B}|B$

ableitbar $\overline{\overline{\overline{\mathcal{P}\overline{O \cup X}}}} = \bar{\bar{\mathcal{O}}}$