

$$\left\{ \begin{array}{l} \text{beweisbar } T \in \bar{\bar{\mathcal{P}}}_{-} \\ \text{equiv class } \overline{T} = 1 \end{array} \right. \xrightarrow[\text{Satz}]{\text{Kons}} \left\{ \begin{array}{l} T \text{ taut} \\ \hat{T} = 1 \text{ char function} \end{array} \right.$$

$$\text{Beh } \bar{\mathcal{P}}_{-} \subset V = \frac{T \in \bar{\mathcal{P}}_{-}}{\hat{T} = 1 \text{ taut}} \underset{\text{abg}}{\subset} \bar{\mathcal{P}}$$

$$T \in \bar{\mathcal{P}}_{-} \underset{\text{Beh}}{\Rightarrow} \hat{T} = 1 \text{ taut}$$

Liste

$$T|\underline{T \rightarrow B}|B \in \text{ modus ponens : } \left\{ \begin{array}{l} T \in V \\ \underline{T \rightarrow B} \in V \end{array} \right. \underset{\text{Beh}}{\Rightarrow} B \in V$$

$$\tau \in 2^{\mathcal{P}} \Rightarrow \left\{ \begin{array}{l} \hat{\tau} T = 1 \\ \hat{\tau} \underline{T \rightarrow B} = \underline{1 - \hat{\tau} T} \vee \hat{\tau} B = 1 \end{array} \right. \Rightarrow 1 - \hat{\tau} T = 0 \Rightarrow 1 = \underline{1 - \hat{\tau} T} \vee \hat{\tau} B = \hat{\tau} B \Rightarrow B \text{ taut}$$

$$\xrightarrow[\text{Satz}]{\text{Ind}} \bar{\bar{\mathcal{P}}}_{-} \subset V$$

$$\left\{ \begin{array}{l} T \text{ taut} \\ \hat{T} = 1 \end{array} \right\} \xrightarrow[\text{Satz}]{\text{Voll}} \left\{ \begin{array}{l} T \in \bar{\bar{\mathcal{P}}} \text{ beweisbar} \\ \overline{T} = 1 \end{array} \right.$$

$$\hat{T} = 1 \text{ taut} \nmid T \notin \bar{\bar{\mathcal{P}}} \Rightarrow \overline{T} \neq 1$$

$$T \nmid T \vee \bar{T}$$

$$\nmid T \sim T \vee \bar{T} \Rightarrow \overline{T \vee \bar{T}} \rightarrow T \in \bar{\bar{\mathcal{P}}} \Rightarrow \bigvee_{\text{Abl}} T_1 | \dots | T_n | \overline{T \vee \bar{T}} \rightarrow T$$

$$\overline{T \vee \bar{T}} | \overline{T \vee \bar{T}} \rightarrow T | T \in \text{modus ponens}$$

$$\Rightarrow \overline{T \rightarrow T} | \overline{T \rightarrow T} \rightarrow \overline{T \vee \bar{T}} | \overline{T \vee \bar{T}} | T_1 | \dots | T_n | \overline{T \vee \bar{T}} \rightarrow T | T \text{ Ableitung} \nmid$$

$$1 = \overline{T \vee \bar{T}} \neq \overline{T} \xRightarrow{\text{Boo}} \bigvee \bar{\mathcal{P}} / \sim \xrightarrow[\text{hom}]{\chi} 2: \chi \overline{T} = 0$$

$$\begin{array}{c} \tau \\ \curvearrowright \\ \mathcal{P} \quad \subset \quad \bar{\mathcal{P}} \xrightarrow{\pi} \bar{\mathcal{P}} / \sim \xrightarrow{\chi} 2 \\ \quad \quad \quad \hat{\tau} \end{array}$$

$$\hat{\tau} = \chi \circ \pi: \hat{\tau} A = \chi \overline{A}$$

$$\mathcal{P} \subset \frac{A \in \bar{\mathcal{P}}}{*} \subset_{\text{abg}} \bar{\mathcal{P}} \xrightarrow[\text{Satz}]{\text{Ind}} \frac{A \in \bar{\mathcal{P}}}{*} = \bar{\mathcal{P}}$$

$$\left\{ \begin{array}{l} \hat{\tau} P = \tau P = \chi \overline{P} \\ \hat{\tau} \overline{\neg A} = 1 - \hat{\tau} A \stackrel{\text{Ind}}{=} 1 - \chi \overline{A} \stackrel{\text{hom}}{=} \chi \overline{1 - A} = \chi \overline{\neg A} \\ \hat{\tau} \overline{A \# B} = \hat{\tau} A \# \hat{\tau} B \stackrel{\text{Ind}}{=} \chi \overline{A} \# \chi \overline{B} \stackrel{\text{hom}}{=} \chi \overline{A \# B} = \chi \overline{A \# B} \end{array} \right.$$

$$\Rightarrow 1 = \hat{\tau} T = \chi \overline{T} = 0 \nmid$$