

$$\text{Aussagen } A = \begin{cases} W & A \text{ wahr} \\ F & A \text{ falsch} \end{cases}$$

$A|WF$  W-Tafel

$A = B \Leftrightarrow$  gleiche W-Tafel

$$A \underset{\text{und}}{\wedge} B: \begin{array}{c|cc} A:B & W & F \\ \hline W & W & F \\ F & F & F \end{array}$$

$$A \underset{\text{oder}}{\vee} B: \begin{array}{c|cc} A:B & W & F \\ \hline W & W & W \\ F & W & F \end{array}$$

$$A \wedge B \underset{\text{komm}}{=} B \wedge A$$

$$A \vee B \underset{\text{komm}}{=} B \vee A$$

$$\underline{A \wedge B} \wedge C \underset{\text{assoc}}{=} A \wedge \underline{B \wedge C}$$

$$\underline{A \vee B} \vee C \underset{\text{assoc}}{=} A \vee \underline{B \vee C}$$

$$\underline{A \wedge B} \vee C \underset{\text{distr}}{=} \underline{A \vee C} \wedge \underline{B \vee C}$$

$$\underline{A \vee B} \wedge C \underset{\text{distr}}{=} \underline{A \wedge C} \vee \underline{B \wedge C}$$

$$A \wedge A \underset{\text{idem}}{=} A$$

$$A \vee A \underset{\text{idem}}{=} A$$

family und /  $\bigwedge_i A_i$

family oder /  $\bigvee_i A_i$

$$\text{family distr / } \overline{\bigwedge_i A_i} \vee C = \bigwedge_i \overline{A_i \vee C}$$

$$\text{family distr / } \overline{\bigvee_i A_i} \wedge C = \bigvee_i \overline{A_i \wedge C}$$