

**\*54·43.**  $\vdash \alpha, \beta \in 1 \supset : \alpha \cap \beta = \Lambda \equiv \alpha \cup \beta \in 2$

*Dem.*

$$\begin{aligned} \vdash \cdot *54 \cdot 26 \cdot \supset \vdash \cdot \alpha = \iota'x \cdot \beta = \iota'y \cdot \supset : \alpha \cup \beta \in 2 \cdot \equiv \cdot x \neq y \\ [*51 \cdot 231] & \equiv \cdot \iota'x \cap \iota'y = \Lambda \cdot \\ [*13 \cdot 12] & \equiv \cdot \alpha \cap \beta = \Lambda \end{aligned} \quad (1)$$

$$\begin{aligned} \vdash \cdot (1) \cdot *11 \cdot 11 \cdot 35 \cdot \supset \\ \vdash \cdot (\exists x, y) \cdot \alpha = \iota'x \cdot \beta = \iota'y \cdot \supset : \alpha \cup \beta \in 2 \cdot \equiv \cdot \alpha \cap \beta = \Lambda \end{aligned} \quad (2)$$

$$\vdash \cdot (2) \cdot *11 \cdot 54 \cdot *52 \cdot 1 \cdot \supset \vdash \text{Prop}$$