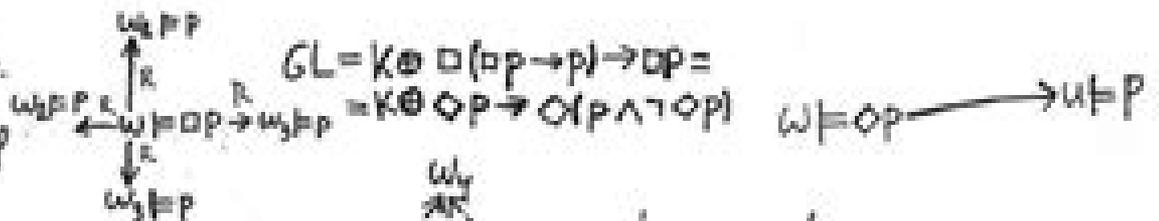


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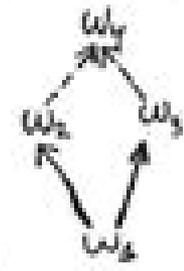
$$M, x \models \Box \varphi \iff \exists y \in R(x) M, y \models \varphi$$



$$K \vdash \Box(\varphi \vee \psi) \iff \Box\varphi \vee \Box\psi$$

**Theorem**  $S4 = \text{Log}(P)$  where  $P$  is the class of all preorders

**Sergokell**



**Lemma** Let  $M$  be a Kripke model and  $\Gamma$  a set of formulas closed under subformulas, then  $M, x \models \varphi \iff \bigwedge_{\psi \in \Gamma} M, x \models \psi$ , where  $\varphi \in \Gamma$ .

$$KH = K \oplus \Box\Box p \rightarrow \Box p$$

# Incomplete and Utter

Hilbert-Bernays-Löb condition

- $\Box A \vdash A \Rightarrow \Box A \vdash \Box A$  ( $\Box A$ )
- $\Box A \vdash \Box(A \rightarrow B) \rightarrow (\Box A) \rightarrow \Box B$
- $\Box A \vdash \Box(\Box A) \rightarrow \Box(\Box A)$

$$\frac{\Box \Gamma \rightarrow \Gamma \quad \Box \varphi \iff \Box \Box \varphi}{\Gamma \rightarrow \Box \Gamma} \quad \frac{\Box \Gamma \rightarrow \Box \Gamma}{\Box \Gamma \rightarrow \Box \Gamma}$$

# Introduction to

# Modal Logic

Let  $X = \langle X, \tau \rangle$  be a topological space and  $A \subseteq X$ . An interior of  $A$  is the set

$$I(A) = \bigcup \{ B \in \tau \mid B \subseteq A \}$$

Topology rules:

- $I(A) \subseteq A$
- $I(I(A)) = I(A)$
- $A \subseteq B \Rightarrow I(A) \subseteq I(B)$
- $I(A \cap B) = I(A) \cap I(B)$
- $I(\emptyset) = \emptyset$

$$\Box T \iff \Box \Box p \rightarrow \Box p$$

$$\Box A \vdash \perp \iff \Box A \vdash \Box \perp$$

Danya Rogozin

$$M, x \models \Box \perp \iff R(x) = \emptyset$$

- $f: W_1 \rightarrow W_2$  is a p-morphism:
- $a R_1 b \Rightarrow f(a) R_2 f(b)$
  - $f(a) R_2 c \Rightarrow \exists b \in W_1$  s.t.  $f(b) = c$  &  $a R_1 b$

$$S4 \vdash \Box \Box p \iff \Box p$$

There is a possibility that never that never goes out.

$$M, x \models \Box^n \varphi \iff \exists y \in R^n(x) M, y \models \varphi$$

# Modal Logic An Introduction

**SJ Ball**



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