

$\Rightarrow \mathbb{F}$  inclus la majorant

$\Rightarrow \mathbb{F} \in \mathcal{F}(\mathcal{P}(\mathcal{T}))$

$$\sim_{\mathbb{F}} \subseteq (\mathcal{F}(\mathcal{T}))^2, (\forall A, B \in \mathcal{F}(\mathcal{T})) \quad \Leftrightarrow |A \Delta B| < \infty$$

$$A \sim_{\mathbb{F}} B \stackrel{\text{def}}{\Leftrightarrow} A \leftrightarrow B \in \mathbb{F} \Leftrightarrow |A \leftrightarrow B| < \infty$$

$$A \leftrightarrow B = (A \rightarrow B) \cap (B \rightarrow A) = (\bar{A} \cup B) \cap (\bar{B} \cup A) \Rightarrow$$

$$\Rightarrow \overline{A \leftrightarrow B} = \overline{(\bar{A} \cup B) \cap (\bar{B} \cup A)} = (\overline{\bar{A} \cup B}) \cup (\overline{\bar{B} \cup A}) = (A \cap \bar{B}) \cup (\bar{A} \cap B) = (A \cap \bar{B}) \cup (\bar{A} \cap B) =$$

$$= (A \setminus B) \cup (B \setminus A) = A \Delta B$$

Prin urmare  $A \sim_{\mathbb{F}} B \Leftrightarrow A \Delta B$  este finita  
diferența  
simetrică

• Clase de congruență determină mult factor

•  $\mathcal{B}$ -alg boole

$$\mathbb{F} \in \mathcal{F}(\mathcal{B})$$

$$\sim_{\mathbb{F}} \in \mathcal{B}(\mathcal{B})$$

$$\subseteq \text{concl}(\mathcal{B})$$

$$(\forall x \in \mathcal{B}) \quad x/\mathbb{F} \stackrel{\text{not}}{=} \{y \in \mathcal{B} \mid x \sim_{\mathbb{F}} y\}$$

$$\text{clasa lui } x \pmod{\mathbb{F}}$$

$$\{x/\mathbb{F} \mid x \in \mathcal{B}\} = \mathcal{B}/\mathbb{F} \stackrel{\text{not}}{=} \mathcal{B}/\mathbb{F}$$

$$(\forall x, y \in \mathcal{B}) \quad x/\mathbb{F} \cup y/\mathbb{F} \stackrel{\text{def}}{=} (x \cup y)/\mathbb{F}$$

$$x/\mathbb{F} \cap y/\mathbb{F} \stackrel{\text{def}}{=} (x \cap y)/\mathbb{F}$$

$$\overline{x/\mathbb{F}} \stackrel{\text{def}}{=} \overline{x}/\mathbb{F}$$

$$0 \stackrel{\text{def}}{=} 0/\mathbb{F}$$

$$1 \stackrel{\text{def}}{=} 1/\mathbb{F}$$

$$(\forall x, y, x', y' \in \mathcal{B}) \quad \text{av. } x/\mathbb{F} = x'/\mathbb{F} \Leftrightarrow x \sim_{\mathbb{F}} x' \Rightarrow \overline{x} \sim_{\mathbb{F}} \overline{x'}$$

$$y/\mathbb{F} = y'/\mathbb{F} \Leftrightarrow y \sim_{\mathbb{F}} y'$$