

ESISTE O R  
ACCOPPIAMENTO  
DI  $V_1$  IN  $V_2$ ?

$V_1$  ACCOPPIAMENTO DA  $V_1$  IN  $V_2$

NON ESISTE PERCHÉ, SE

$$S \stackrel{\text{def}}{=} \{1, 4\} \Rightarrow N_G(S) = \{10\} \text{ e}$$

$$|S| = 2 \neq 1 = |N_G(S)|$$

$S_{12} \quad G = (V, E) \text{ dove}$

$$V \stackrel{\text{def}}{=} \binom{[0,1]}{2} \cup \binom{[0,1]}{3}$$

$$\binom{S}{k} \stackrel{\text{def}}{=} \{A \subseteq S : |A| = k\}, \quad \subseteq \quad \subseteq$$

$$x, y \in V \quad A \subseteq B \Rightarrow A$$

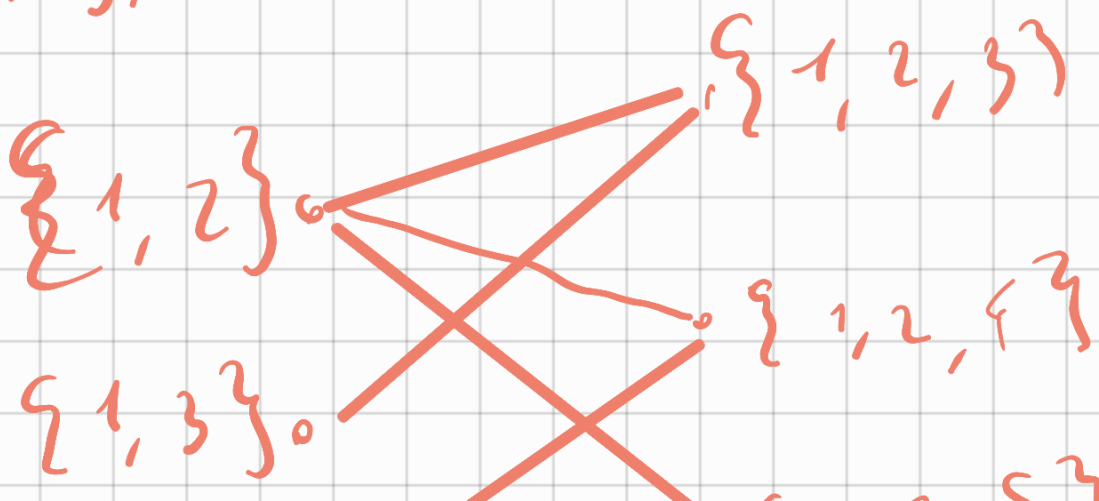
$$\{x, y\} \in E$$



$$X \subsetneq Y \quad \text{or} \quad Y \subsetneq X$$

$$(P \in \mathcal{A} \quad \text{if} \quad S : \{\{1, 3\}, \{1, 3, 4\}\} \in E, \\ \{\{1, 3\}, \{2, 3, 4\}\} \in E)$$

Quindi



~~$\{1, 4\}$~~   ~~$\{1, 2, 3\}$~~

$\{8, 9\}$  —————  $\{7, 8, 9\}$

il sistema  $V_1$  o l'Accoppiamento di  $V_1, V_2$

Beh

$$|V_1| = \binom{[5]}{2} = \binom{9}{2} = \frac{9 \cdot 8}{2} = 36$$

$$|V_2| = \binom{[5]}{3} = \binom{9}{3} = \frac{9 \cdot 8 \cdot 7}{3 \cdot 2} = 84$$

- Perchè di 44? Forse no

- Costituito nei grafi da  $V_1$  in  $V_2$ ?

Sia  $x \in V_1 \Rightarrow x = \{a, b\}$  con  $a, b \in [5]$   
with answer

$$d(x) = |\{y \in V_1 : \{x, y\} \in E\}|$$

$$= |\{y \in \binom{[3]}{3} : x \subseteq y\}|$$

$$= |\{\{a, d, e\} \in \binom{[5]}{3} : \{a, b\} \subseteq \{a, d, e\}\}|$$

$$= |\{\{a, b, c\} : c \in [5] \setminus \{a, b\}\}| = 4$$

$$S_{12} \quad y \in \binom{[3]}{3}, y = \{a, b, c\}, a, b, c \in [5]$$

Alternativ

$$d(y) = |\{x \in \binom{[3]}{2} : x \subseteq y\}|$$

$$= |\{x \in [3] : |x| = 2, x \subseteq \{a, b, c\}\}|$$

$$= |\{\{a, b\}, \{a, c\}, \{b, c\}\}| = 3$$

Permutation

$$1 \rightarrow 2 \rightarrow 3 \rightarrow \dots$$

$$\alpha(x) = \tau \circ \sigma \circ \alpha(y)$$

$\forall x \in V_1 \wedge \forall y \in V_2 \Rightarrow G$  è costruito

per  $G \sim V_1 \sim V_2 \Rightarrow$  SAPIA

Dalla teoria CH:  $\exists$  un Accoppiamento

$V_1 \sim V_2$

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Sia  $G =$

