

# Jadro orient. grafu bez lichých cyklů

Algoritmus: 1)  $n := 0, G_n := G$ .

2) zvol  $H_n$  kvazikomponentu  $G_n$ , odpovídající státní konstante, vol  $v_n \in U(H_n)$  a vol  $S_n = \{u \in U(H_n) \mid v \text{ v } H_n \text{ ex. sled podle délky } \alpha \text{ do } v_0 \text{ do } u\}$ .

3) Je  $H_n = G_n$ ?

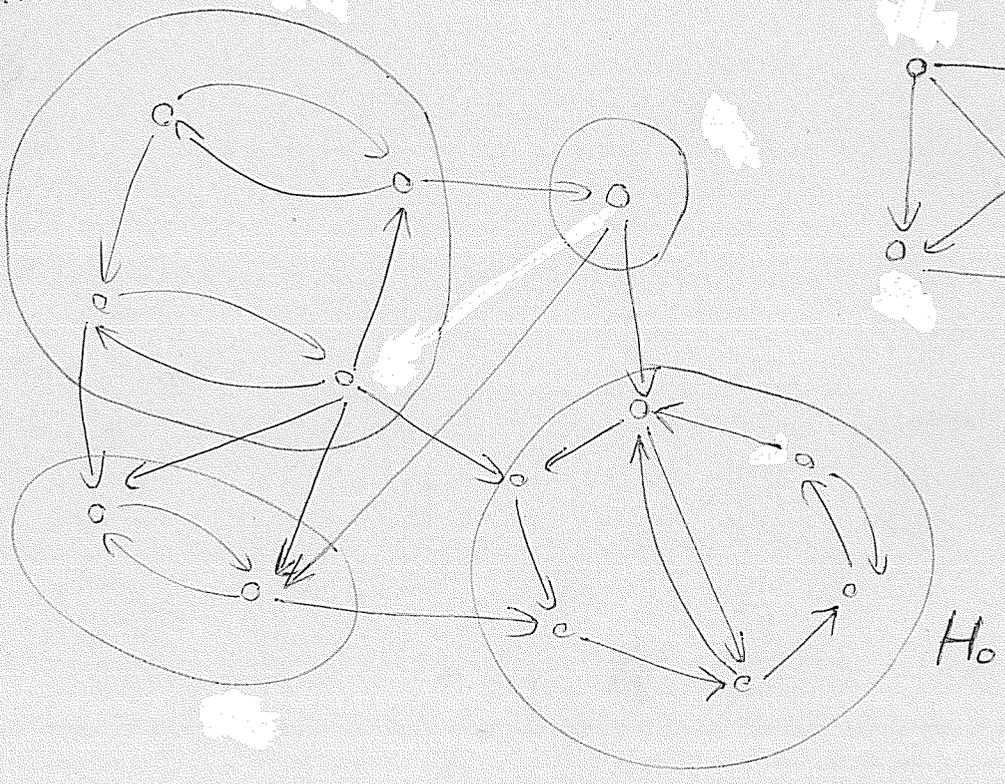
- ne: ~~vol~~ vol  $S_n$

$$G_{n+1} = G_n - S_n - N_G^-(S_n),$$

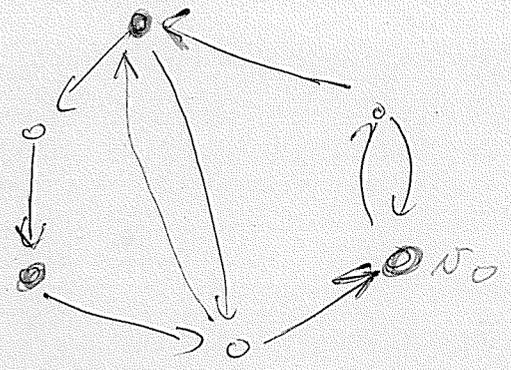
$n := n+1$  a jdi na (2),

- ano: vol  $S = S_0 \cup \dots \cup S_n$ .

$G_0 \neq G$ :



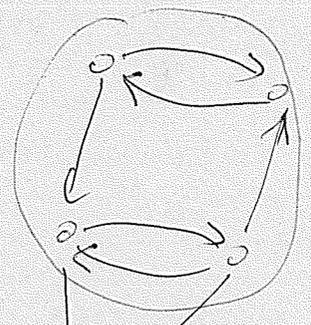
$H_0$



$S_0$

$H_0 \neq G_0$

$G_1$



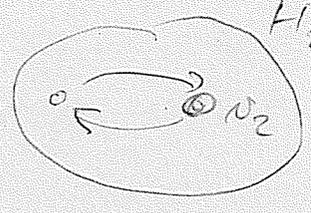
$H_1$



$S_1$

$H_1 \neq G_1$

$G_2$

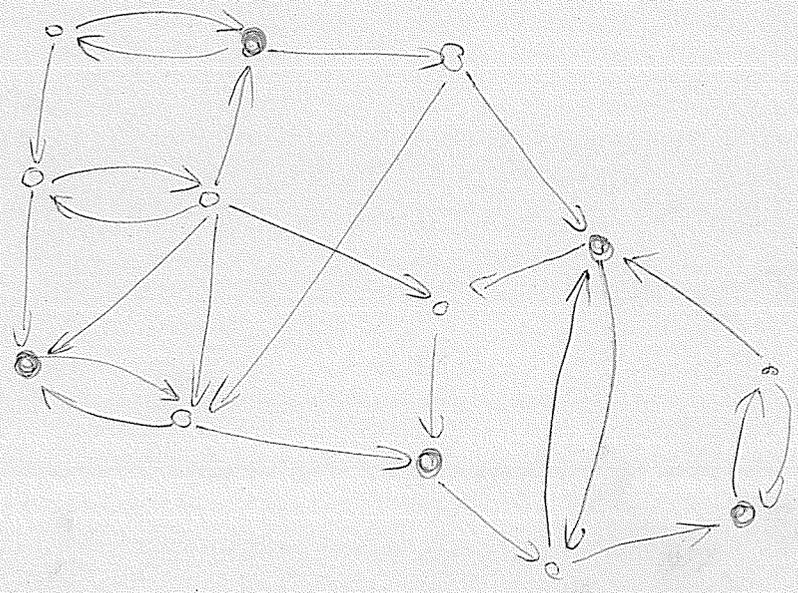


$H_2$

$S_2$

$H_2 = G_2$

$S = S_0 \cup S_1 \cup S_2$



$S$