

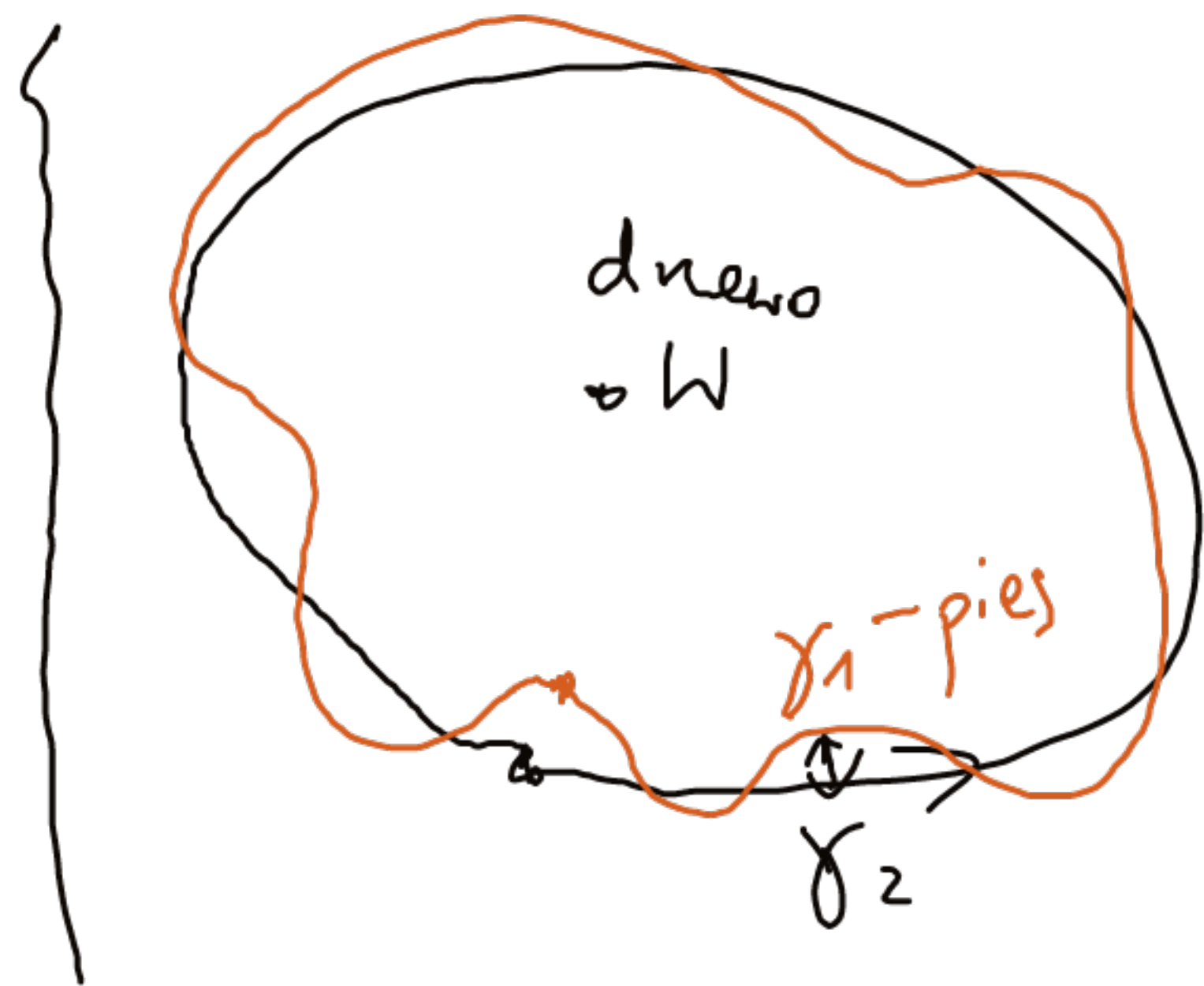
$$\gamma(0) \stackrel{?}{=} \gamma(1)$$

$$|\gamma_1(t) - \gamma_2(t)| < |\omega - \gamma_2(t)|, t \in [0, 1]$$

$$\gamma(t) = \frac{\gamma_1(t) - \omega}{\gamma_2(t) - \omega}$$

- dobre skreibe, kerutkeni
klosy $\subset \mathbb{1}$

$$\gamma(0) = \frac{\gamma_1(0) - \omega}{\gamma_2(0) - \omega} = \frac{\gamma_1(1) - \omega}{\gamma_2(1) - \omega} = \gamma(1)$$

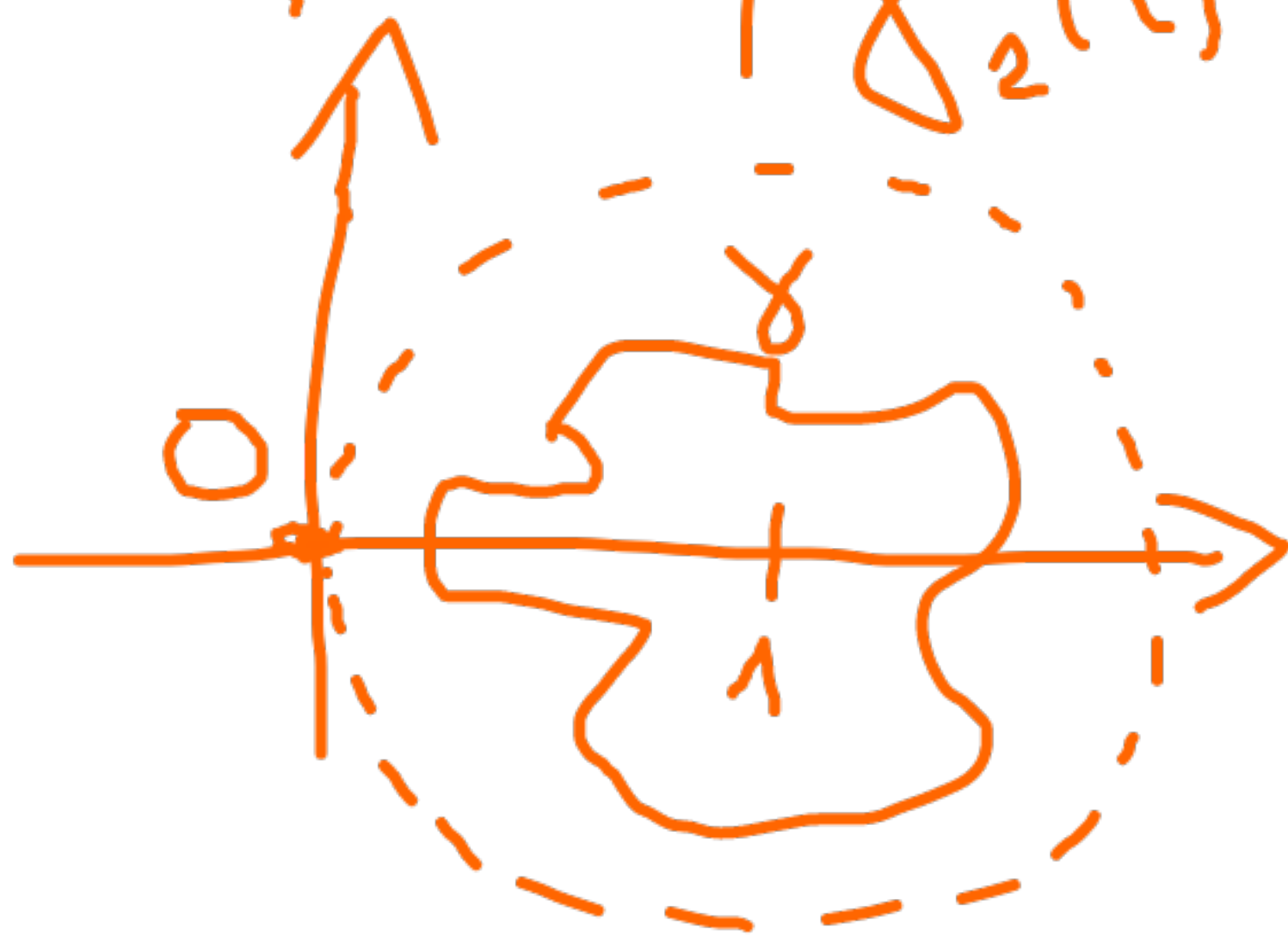


$$\Rightarrow \text{Ind } \gamma_1(\omega) = \text{Ind } \gamma_2(\omega)$$

$$|1 - \gamma(t)| < 1$$

$$|1 - \gamma(t)| = \left| 1 - \frac{\gamma_1(t) - \omega}{\gamma_2(t) - \omega} \right| = \left| \frac{\gamma_2(t) - \omega - \gamma_1(t) + \omega}{\gamma_2(t) - \omega} \right|$$

$$= \left| \frac{\gamma_2(t) - \gamma_1(t)}{\gamma_2(t) - \omega} \right| < \left| \frac{\omega - \gamma_2(t)}{\gamma_2(t) - \omega} \right| = 1$$



$$\text{Ind } \gamma(0) = 0$$