

Dimensionnement de l'OTA.

■ Conditions de stabilité.

$$GBW \approx \frac{g_{mL}}{C_c} \quad P_2 \approx \frac{g_{m5}}{C_c + C_c/2} \quad Z \approx \frac{g_{m5}}{C_c}$$

(60 degree phase margin)

$$\frac{P_2}{GBW} > 2.2 \rightarrow \frac{g_{m5}}{g_{mL}} > \frac{2.2(C_c + C_c)}{C_c} \quad \text{orange arrow} \quad \frac{g_{m5}}{I_5} > \frac{1}{2K} \frac{2.2(C_c + C_c)}{C_c} \frac{g_{mL}}{I_1}$$

$$\frac{Z}{GBW} > 10 \rightarrow \frac{g_{m5}}{g_{mL}} > 10 \quad \text{orange arrow} \quad \frac{g_{m5}}{I_5} > \frac{5}{K} \frac{g_{mL}}{I_1}$$

$$\frac{g_{m5}}{I_5} > \frac{5}{K} \frac{GBW}{S_R}$$