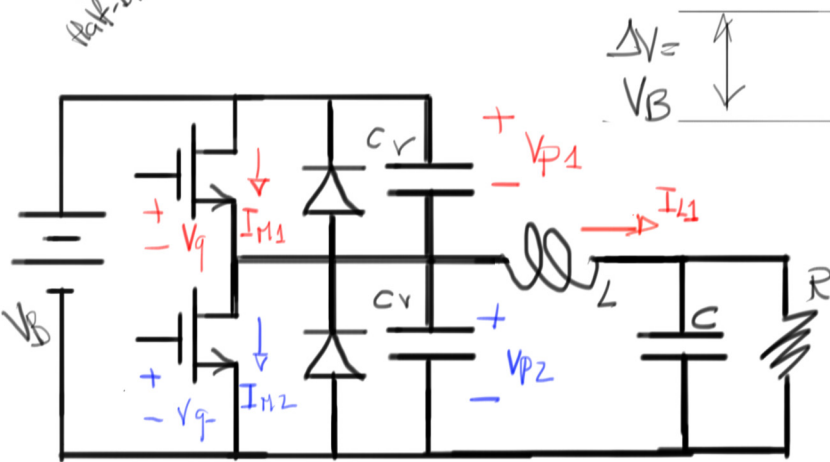


# Conversores Ressonantes

## Gravameamento de Tensão

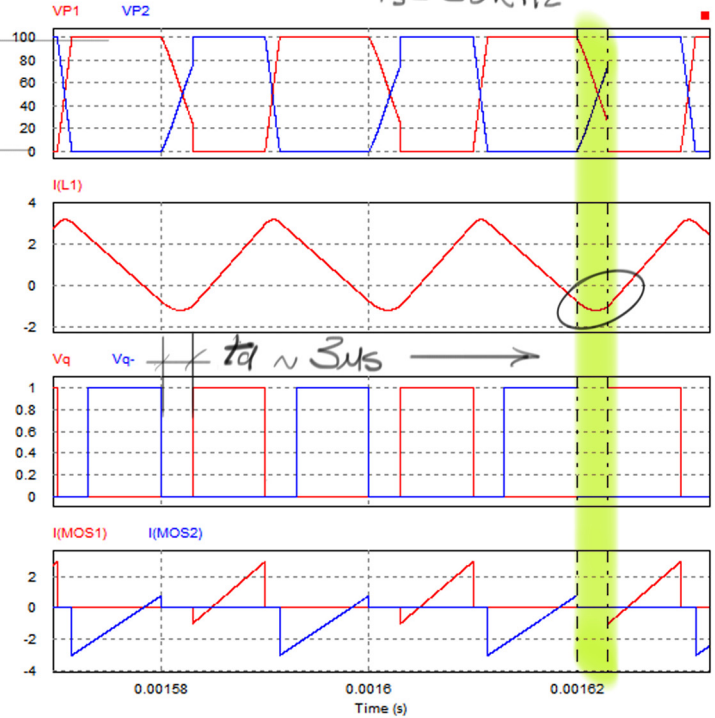
- Inversor de polo ressonante
- Buck síncrono ZVS

Elék Half-Bridge



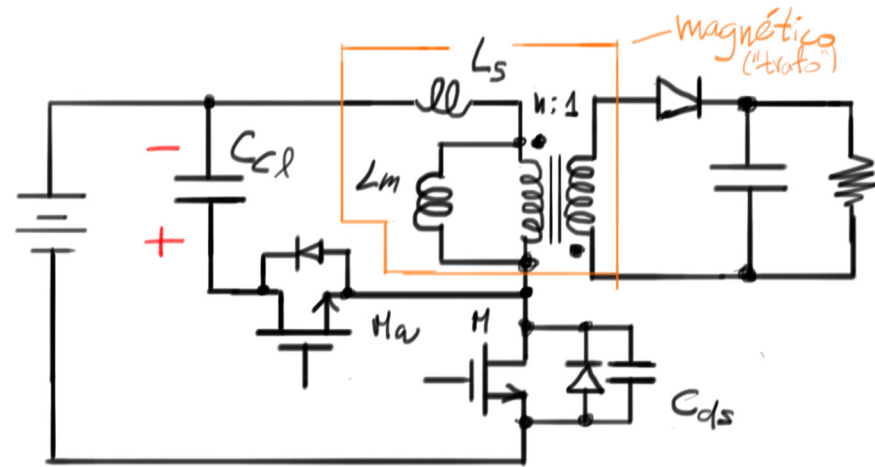
$$\frac{\Delta V}{V_B}$$

$f_s = 50 \text{ kHz}$



PSIM }  $L = 100 \mu\text{H}$  /  $R = 50 \Omega$   
 $C = 10 \mu\text{F}$  /  $C_v = 22 \text{ nF}$  (res.  $\sim 75 \text{ kHz}$ )

## Flyback QR e "clamp" ativo



- \* M e Ma  $\rightarrow$  complementares e dead-time
- \* Ma  $\rightarrow$  retificador síncrono & interruptor
- \*  $f_r \rightarrow L_s$  &  $C_{cl}$  tal que  $\frac{1}{4f_r} \gg \frac{(1-D)}{f_s}$
- \*  $\omega_{L_s} > \omega_{C_{ds}}$

