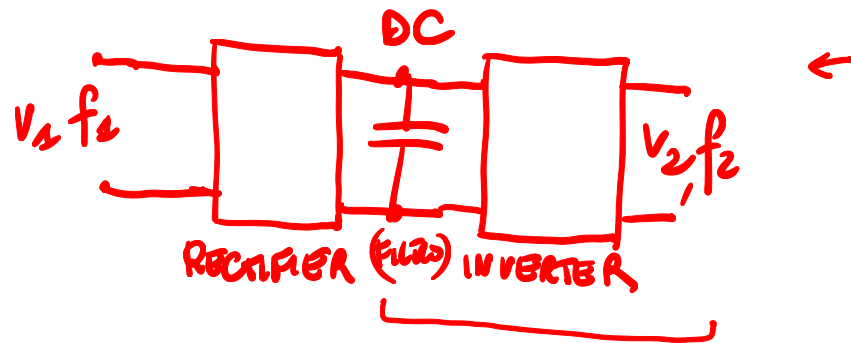
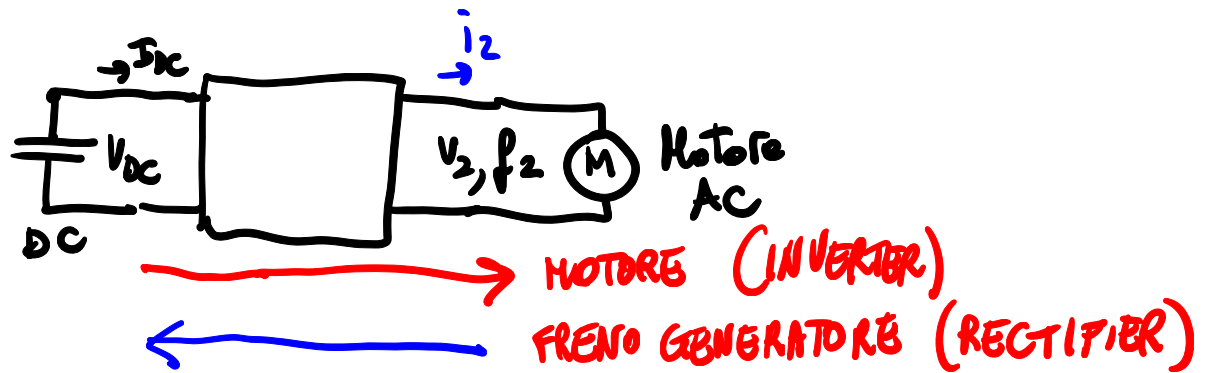


Inverter [DC \rightarrow AC]

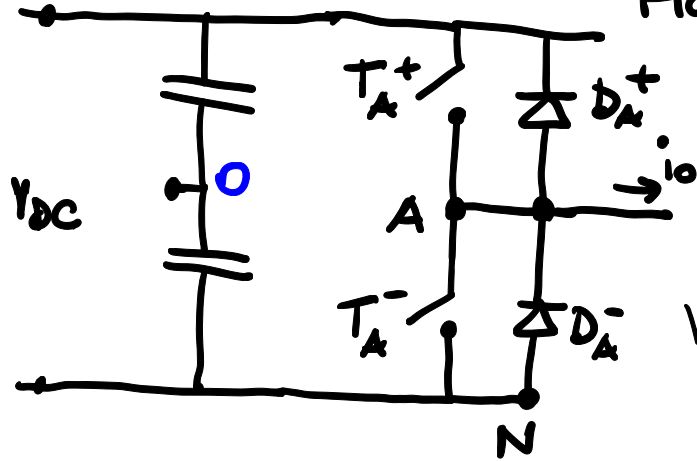
Cydo converter



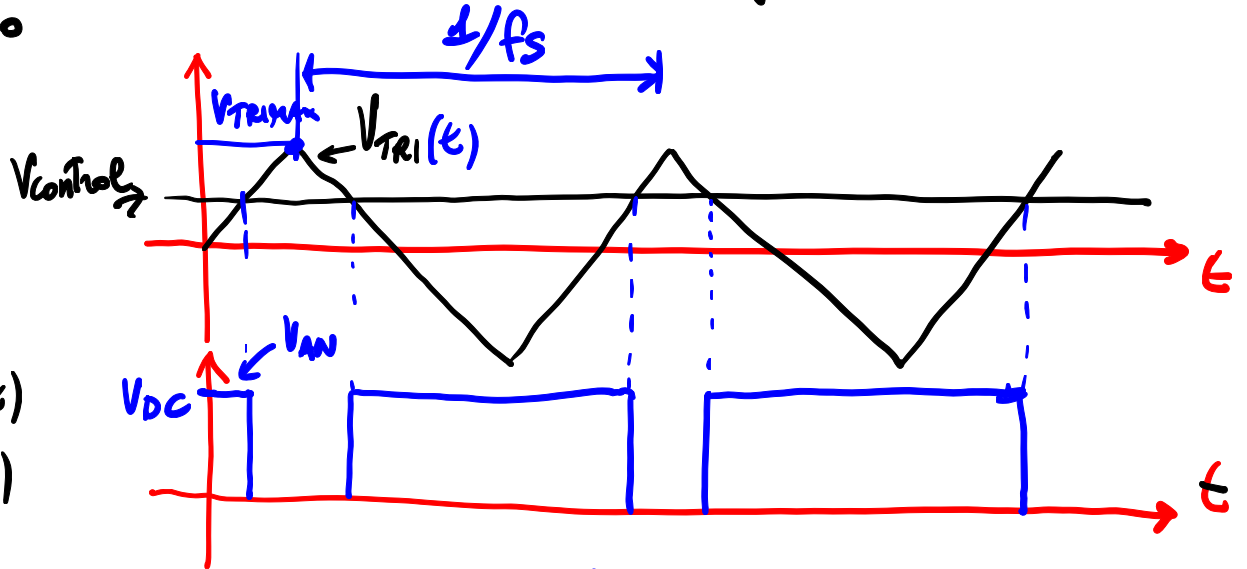
ES: Motore AC



Half BRIDGE



T_A^+ e T_A^- sono in controfase



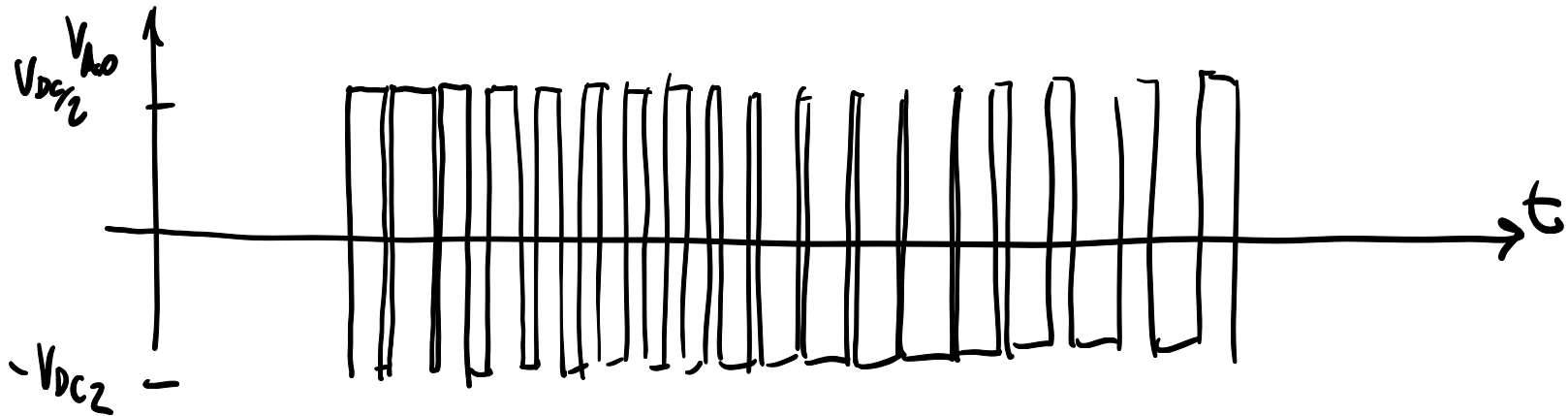
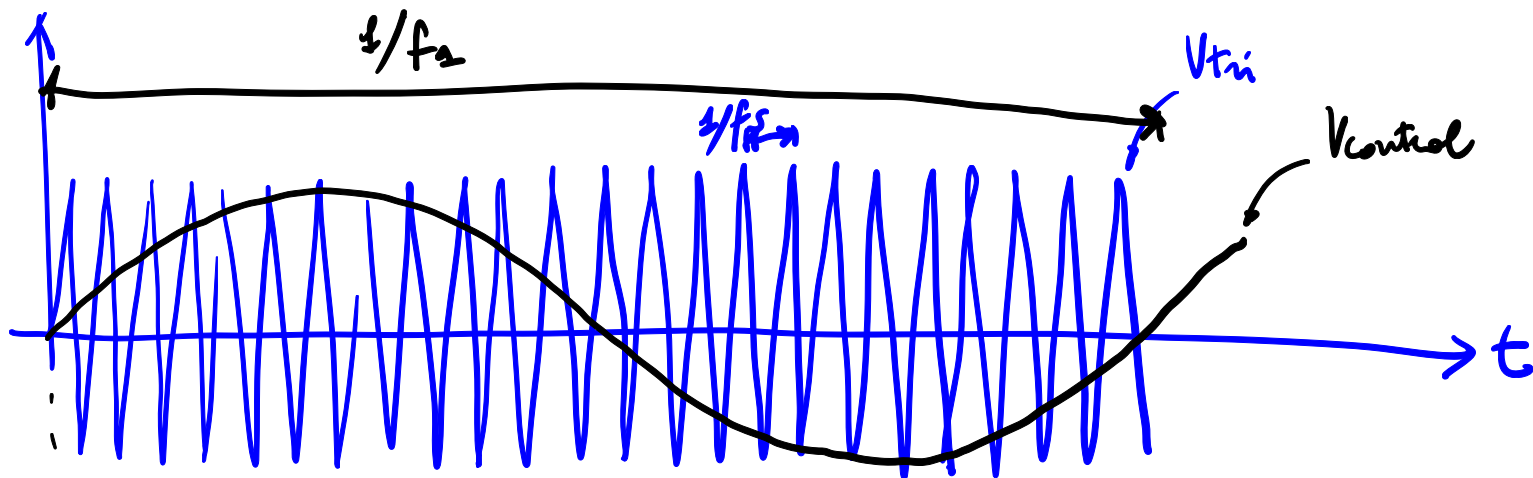
T_A^+ ON $V_{control} > V_{tri}(t)$
 T_A^+ OFF $V_{control} < V_{tri}(t)$

$$\langle V_{AO} \rangle = \frac{1}{2} \left(1 + \frac{V_{control}}{V_{TRI_{max}}} \right) V_{DC}$$

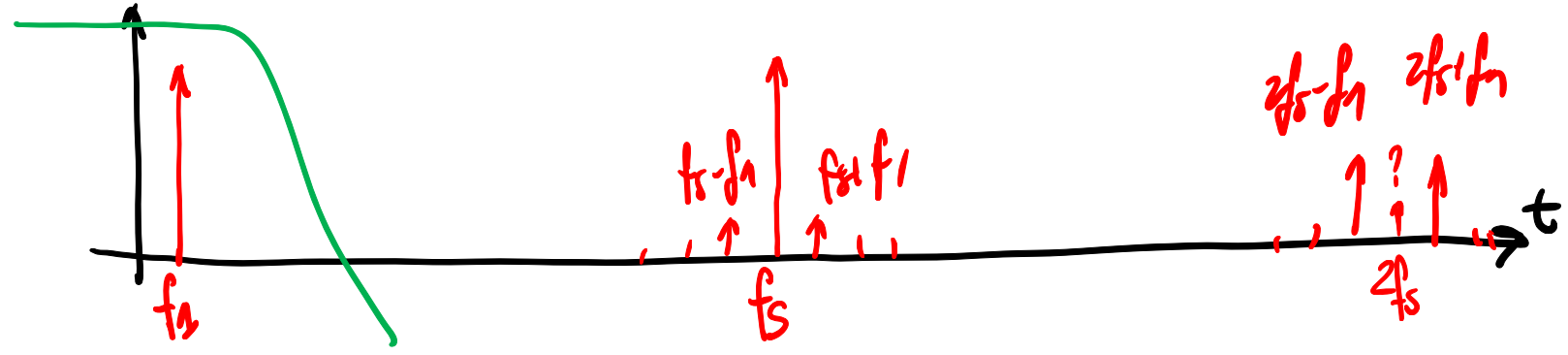
$$V_{AO} = V_{AN} - V_{ON} = V_{AN} - \frac{V_{DC}}{2}$$

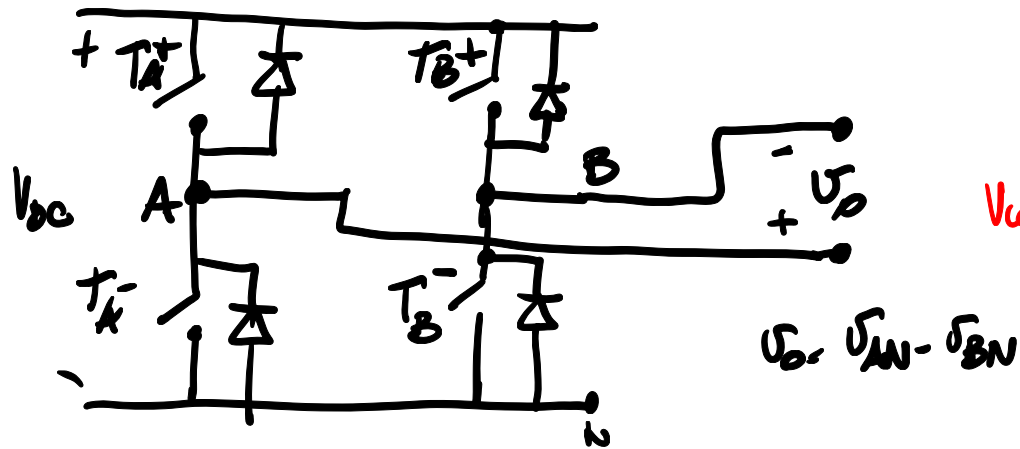
$$\left[\langle V_{AO} \rangle = \frac{V_{DC}}{2} + \frac{V_{control}}{V_{TRI_{max}}} \right]$$

se moduliamo $V_{control}$ a frequenza $f_1 \ll f_s$ allora V_{AO} è una forma d'onda modulata a freq f_1



SPETTRO DI V_{AO}

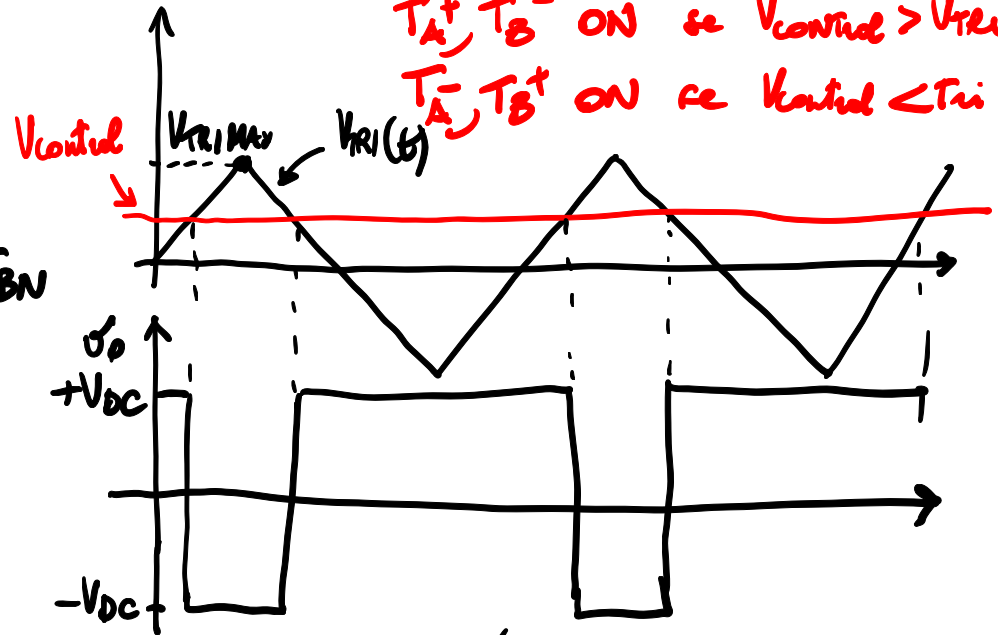




OPERAZIONE BIPOLARE

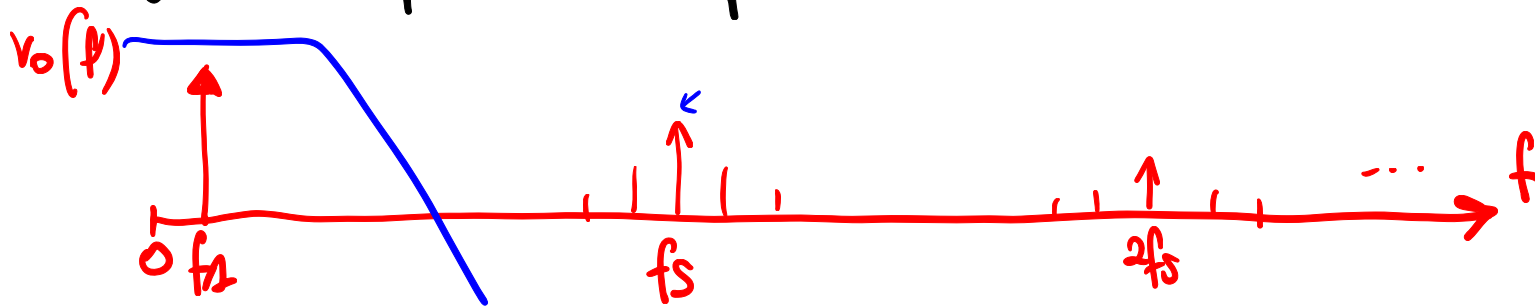
T_A^+, T_B^- ON se $V_{control} > V_{TRI}$

T_A^-, T_B^+ ON se $V_{control} < V_{TRI}$

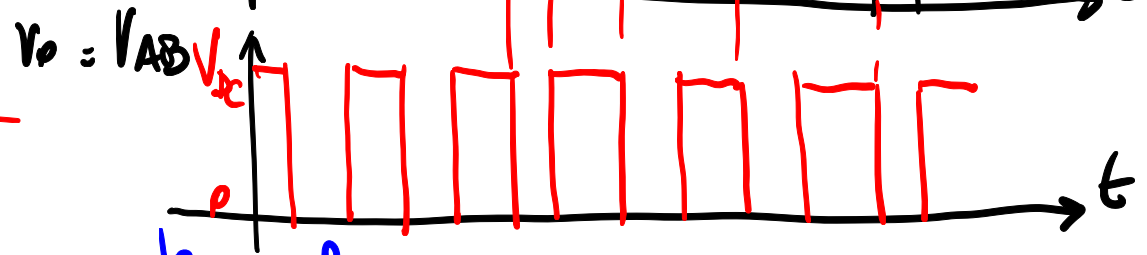
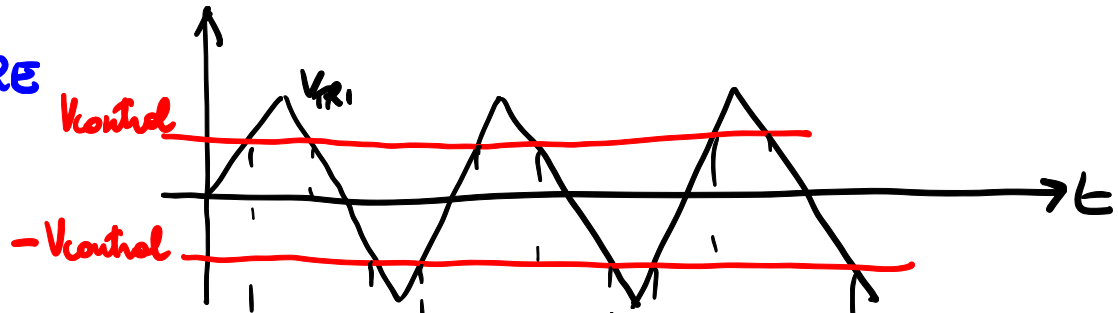


$$\langle v_o \rangle = V_{DC} \left(\frac{V_{control}}{V_{TRIMAX}} \right)$$

se $V_{control}$ è una sinusoide a frequenza $f_2 \ll f_s$
 allora lo spettro di v_o è fatto così



Pilotaggio UNIPOLARE



(A) T_A^+ ON se $V_{control} > V_{cr}$
 T_A^- ON se $V_{control} < -V_{cr}$

(B) T_B^+ ON se $-V_{control} > V_{cr}$
 T_B^- ON se $-V_{control} < -V_{cr}$

$$\langle V_o \rangle = V_{DC} \left(\frac{V_{control}}{V_{crMAX}} \right)$$

se $V_{control}$ è una sinusoida a f

SPETTRO DI V_o

