

KLYSTRON

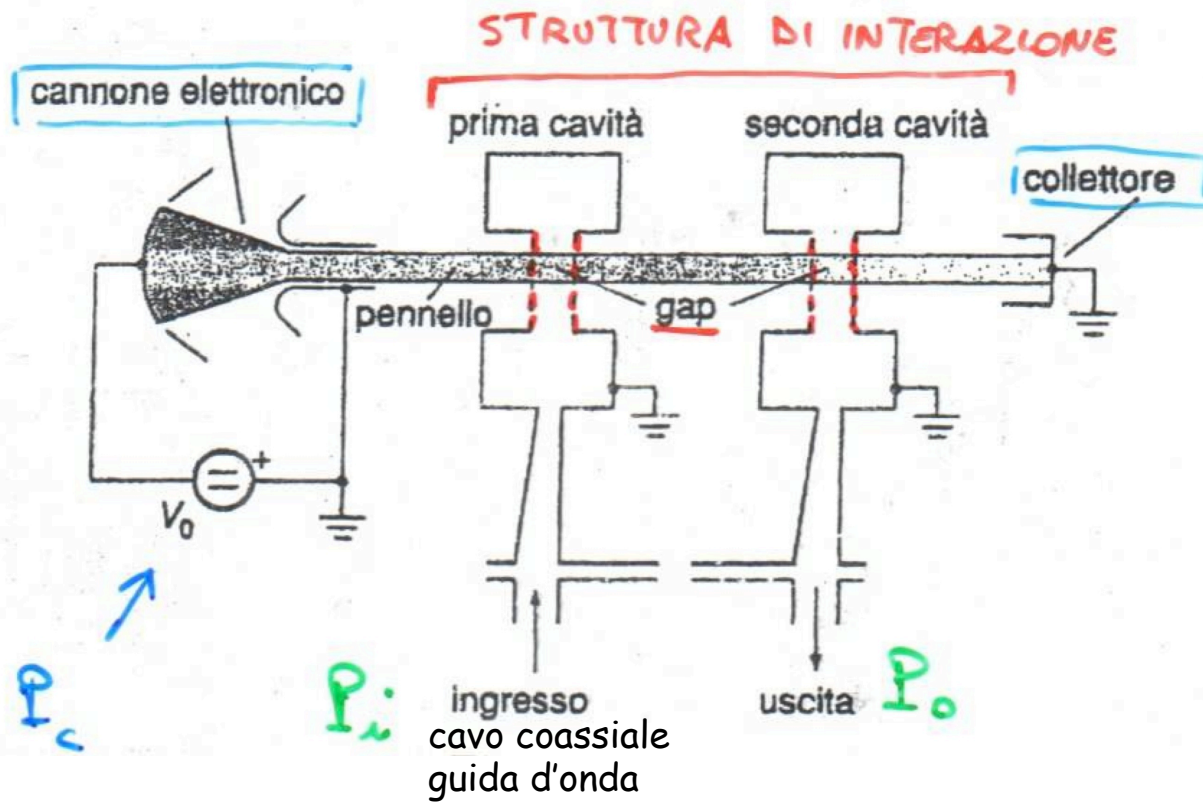


DIAGRAMMA DI APPLEGATE

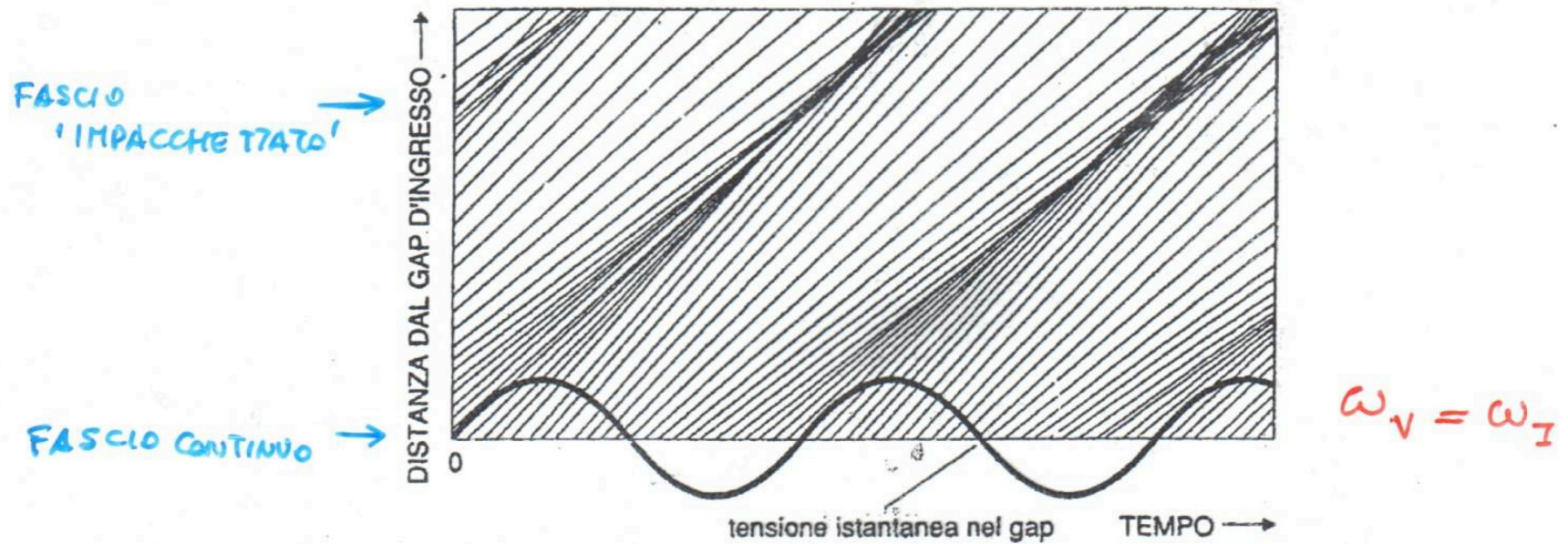


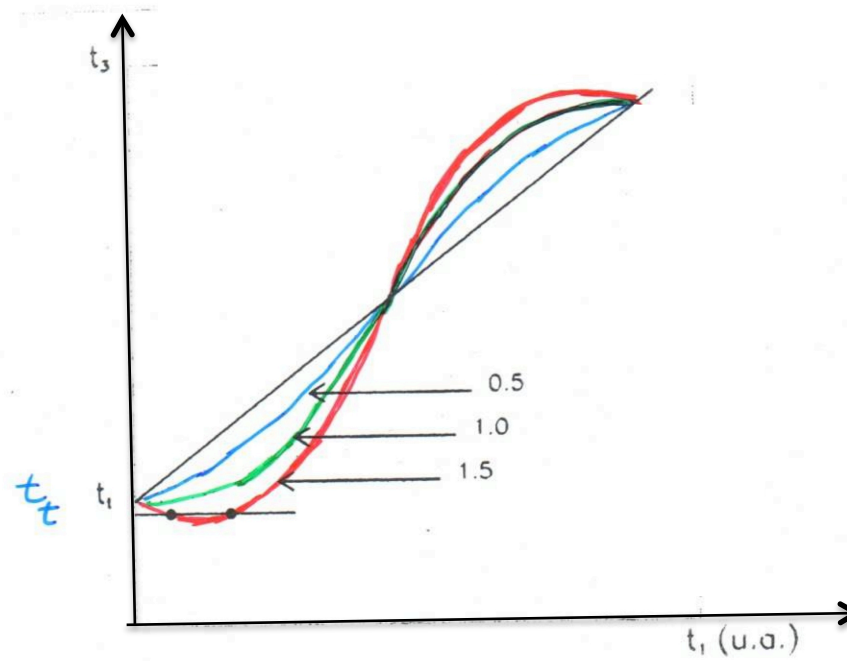
Figura 7.2;

$$G = \frac{P_0}{P_i} \quad (\sim 10 \div 100) \\ (10 - 20 \text{ dB})$$

$$P_c = I \cdot V_0 \quad (\sim \text{kA} \cdot 10 \text{ kV}) \approx 10^7 \text{ W}$$

$$\eta = P_0 / P_c \approx 0.3 \div 0.4 \quad P_0 \approx 10 \text{ MW}$$

t_3 : tempo di arrivo
nel secondo gap
(punto medio)



t_1 : tempo di partenza
dal primo gap (punto
medio)

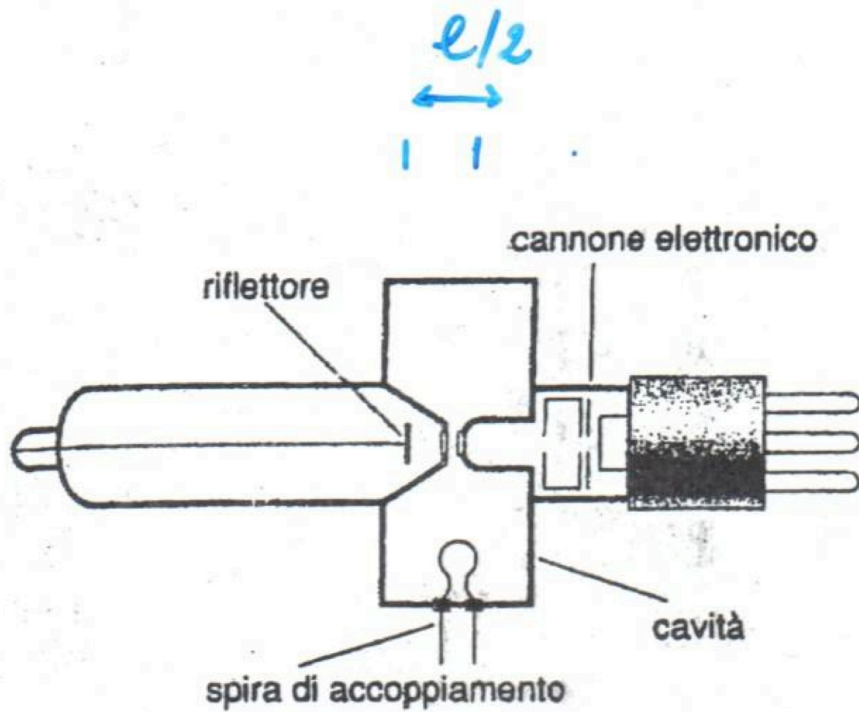


Figura 7.5:

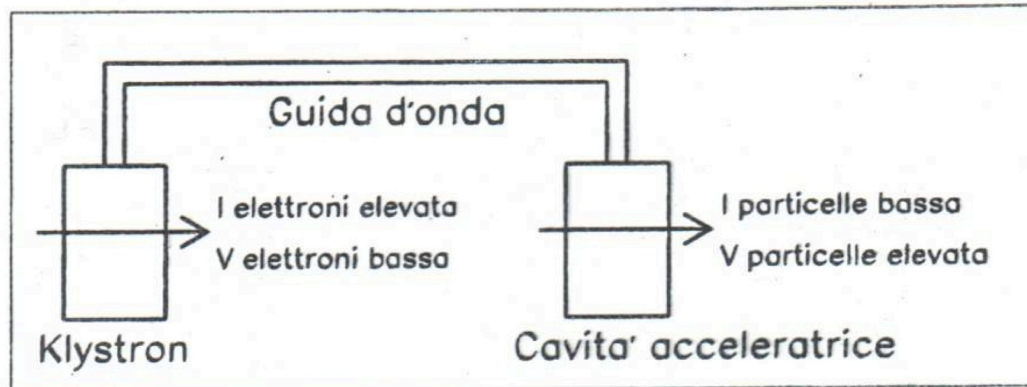
$\eta < 10\%$

$W \sim 1 W$

RADAR

ALTE W: RADAR

ACCELERATORI DI PARTICELLE



$$I \sim \text{KA}$$
$$V \sim 10^5 \text{V}$$

Figura 7.6:

$$I \sim \text{A}$$
$$V \sim 10^7 \text{V} (\Delta E = 10 \text{ MV} \cdot q)$$



$$\eta \sim 20\%$$