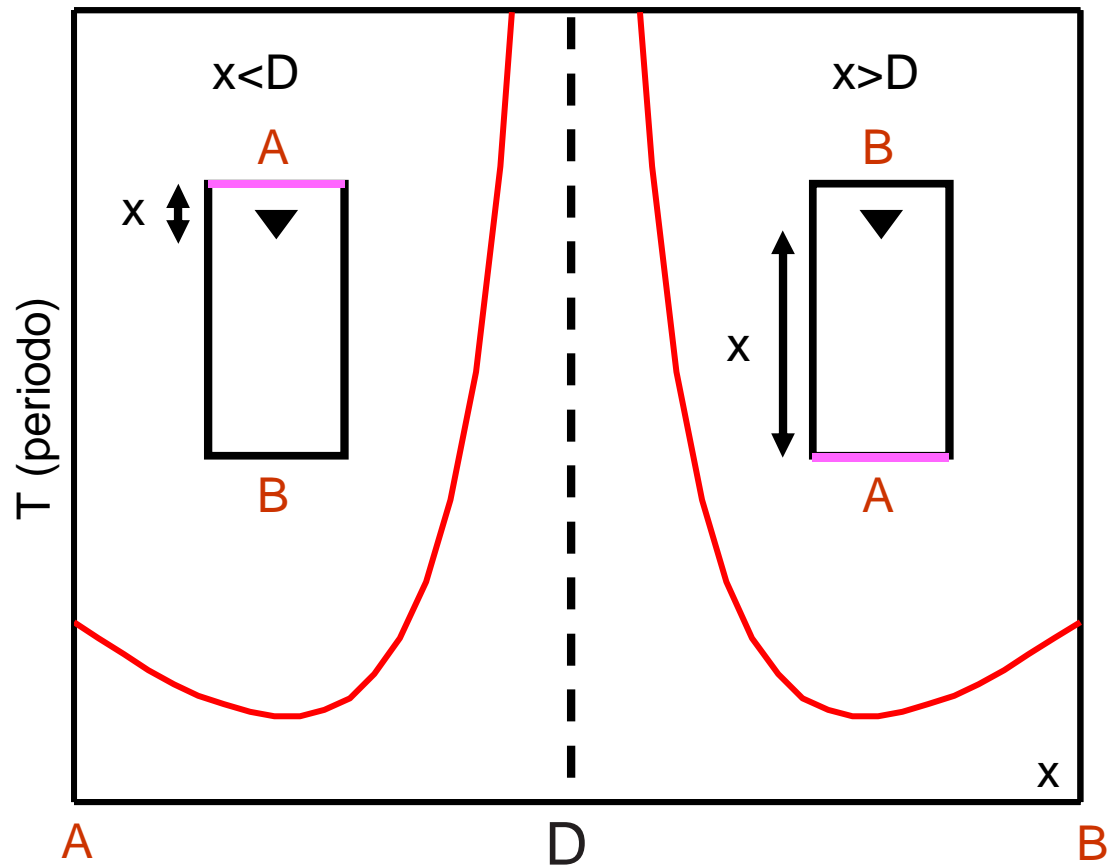
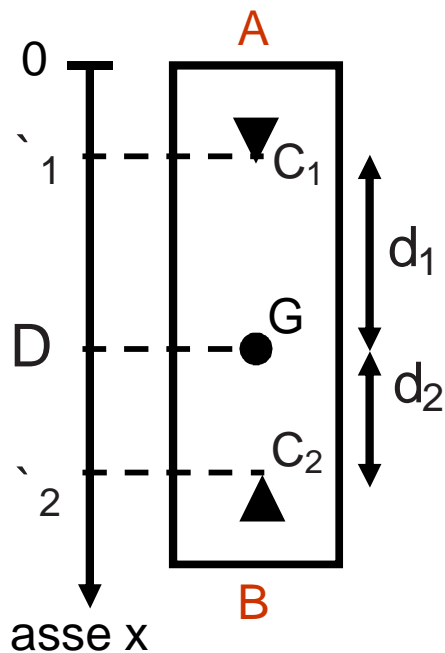


$$T = 2 \sqrt{\frac{I_0 + M(D - x)^2}{MgxD}}$$



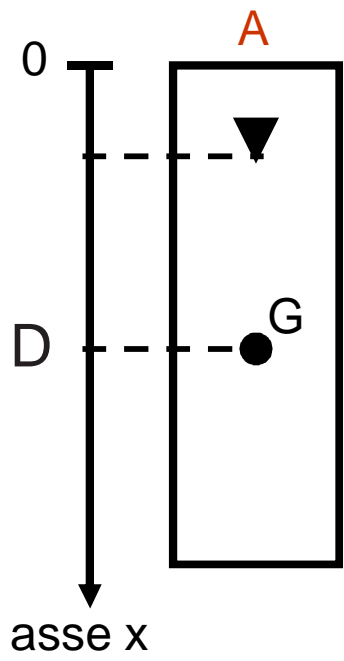


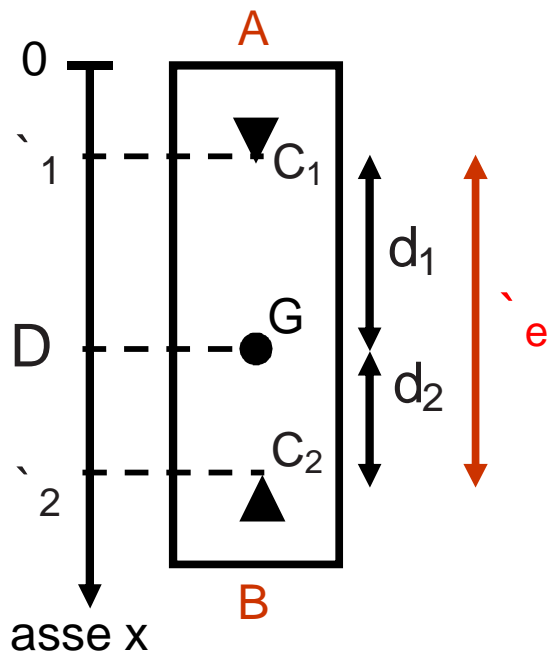


Pendolo composto con posizione del coltello variabile in modo che esistano almeno 2 posizioni con lo stesso periodo di oscillazione.

$$T_1 = T_2 \quad \frac{I_1}{Md_1} = \frac{I_2}{Md_2} \quad \text{e} \quad \frac{I_0 + Md_1^2}{Md_1} = \frac{I_0 + Md_2^2}{Md_2}$$

$$Md_1 d_2 (d_1 + d_2) = I_0 (d_1 + d_2) \quad \text{se } d_1 \neq d_2 \quad I_0 = Md_1 d_2$$





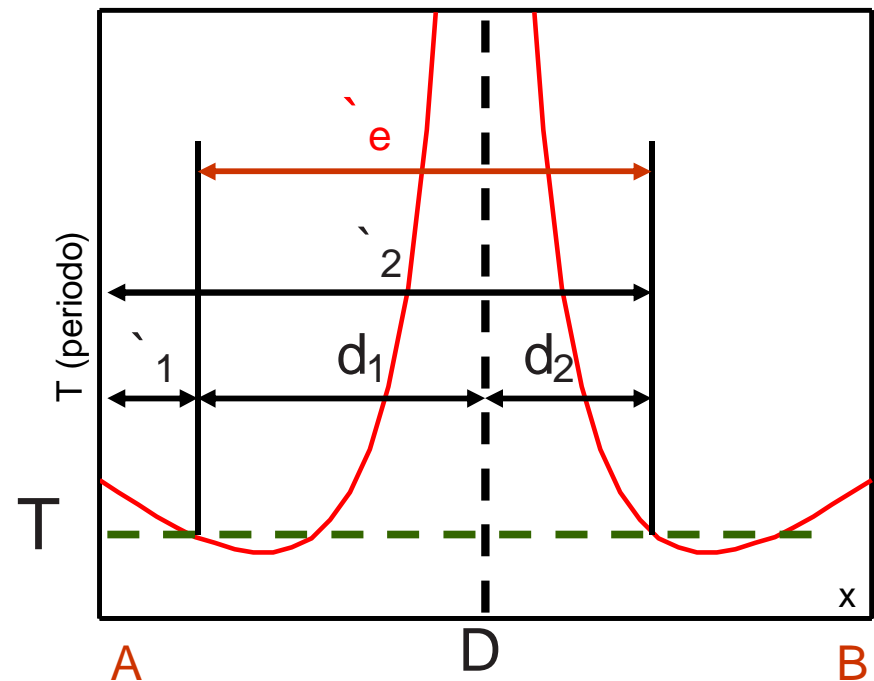
Pendolo composto con posizione del coltello variabile in modo che esistano almeno 2 posizioni con lo stesso periodo di oscillazione.

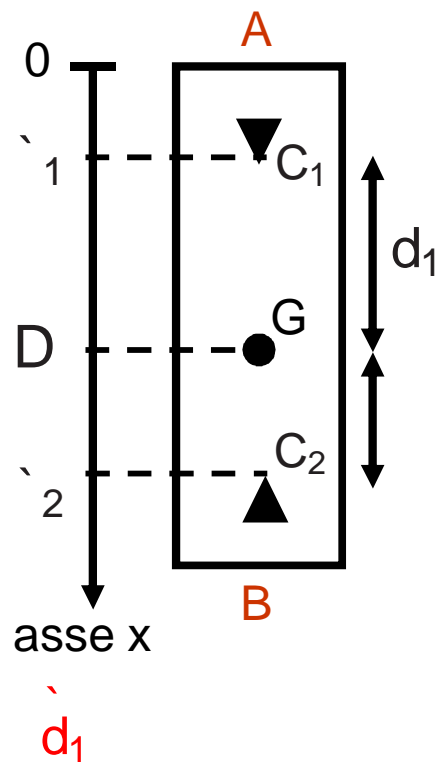
$$T_1 = T_2 \quad \frac{I_1}{Md_1} = \frac{I_2}{Md_2} \quad \text{e} \quad \frac{I_0 + Md_1^2}{Md_1} = \frac{I_0 + Md_2^2}{Md_2}$$

$$Md_1d_2(d_1 + d_2) = I_0(d_1 + d_2) \quad \text{se } d_1 \neq d_2 \quad I_0 = Md_1d_2$$

$$d_1 + d_2 = d_1 + \frac{I_0}{Md_1} = \frac{I_0 + Md_1^2}{Md_1} = e$$

$$e = d_1 + d_2 = x_2 - x_1$$

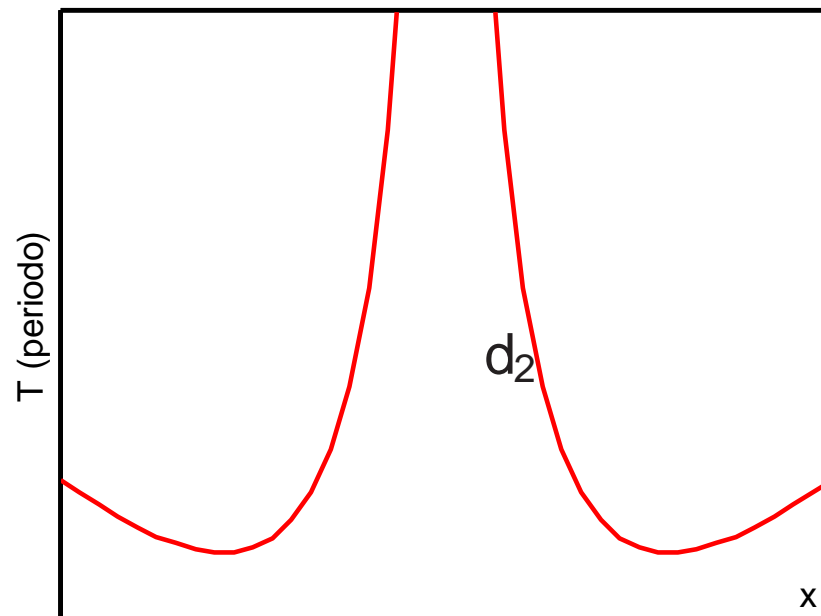


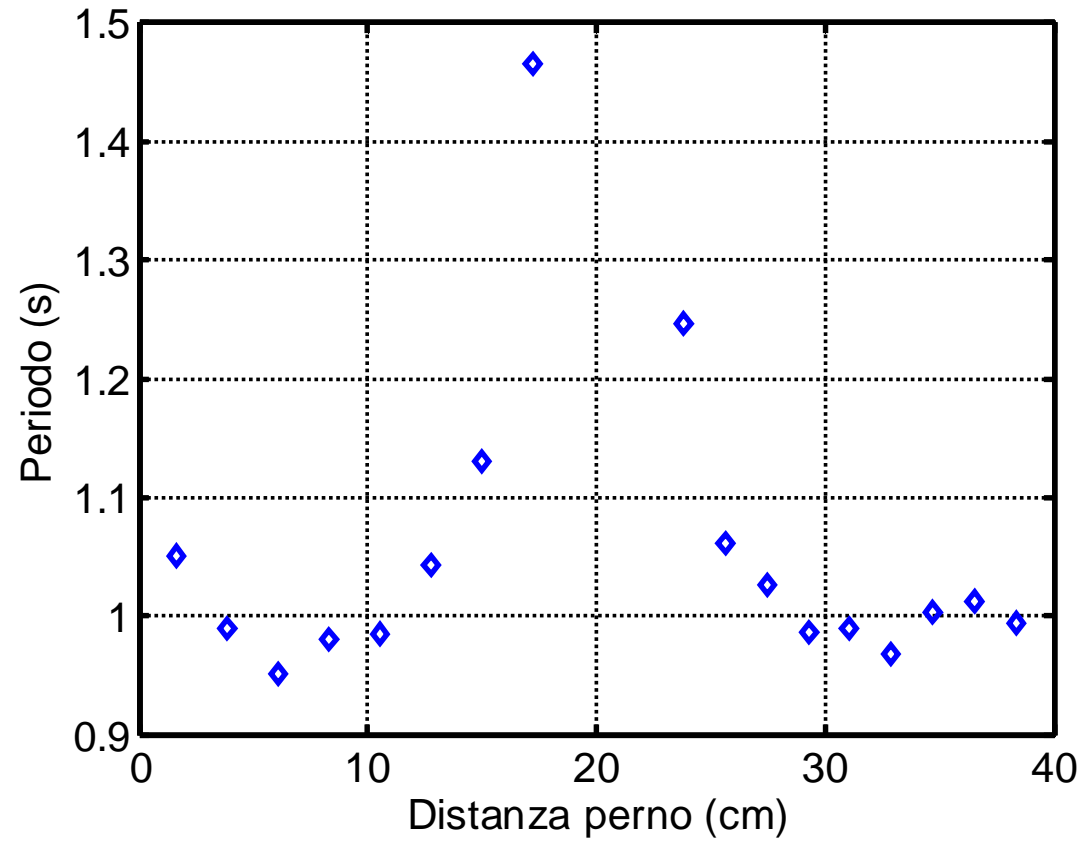
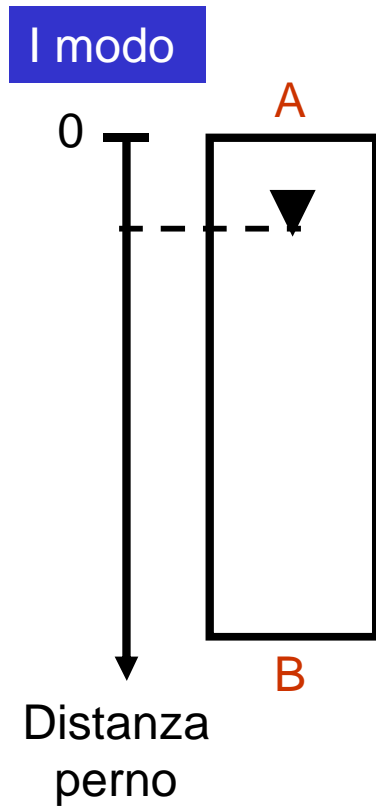


Pendolo composto con posizione del coltello variabile in modo che esistano almeno 2 posizioni con lo stesso periodo di oscillazione.

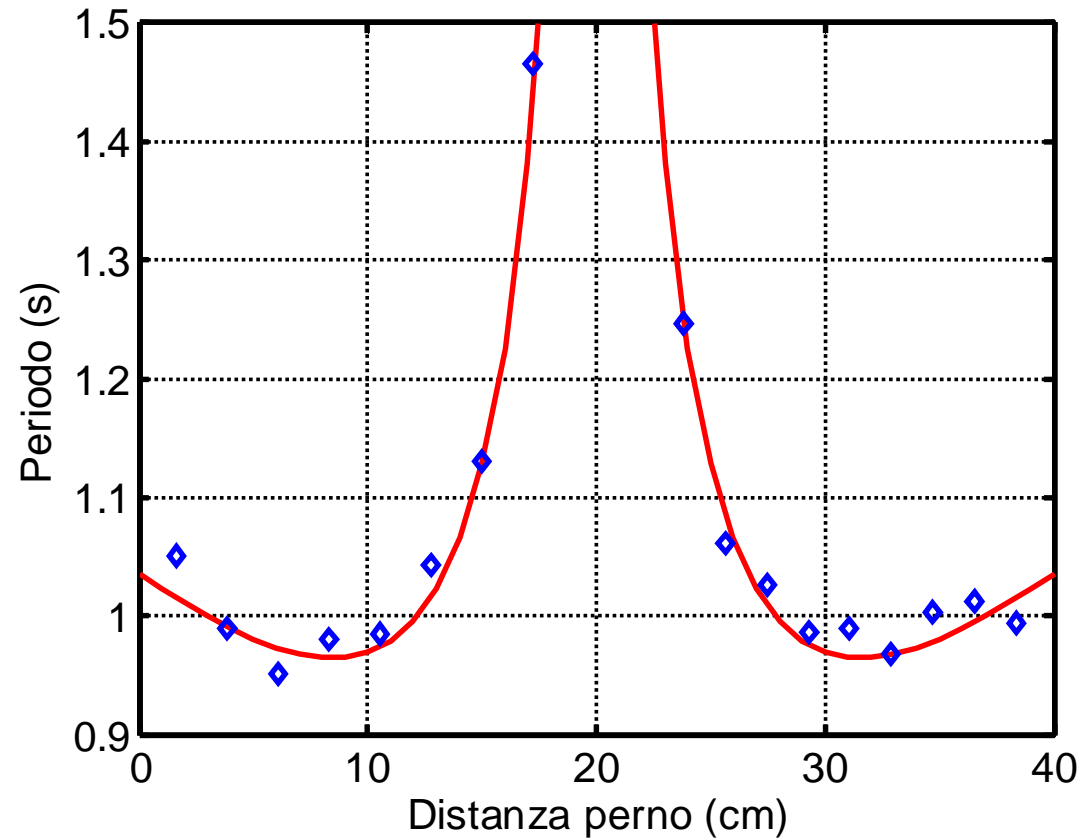
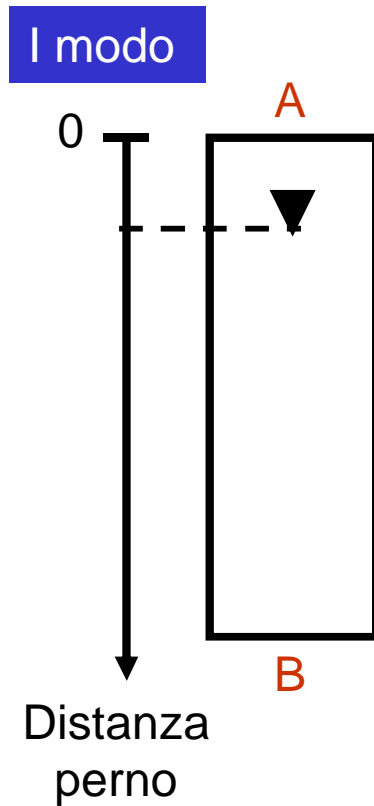
$$T_1 = T_2 \quad \frac{I_1}{Md_1} = \frac{I_2}{Md_2} \quad \text{e} \quad \frac{I_0 + Md_1^2}{Md_1} = \frac{I_0 + Md_2^2}{Md_2}$$

$$Md_1 d_2 (d_1 + d_2) = I_0 (d_1 + d_2) \quad \text{I}_0 = Md_1 d_2$$



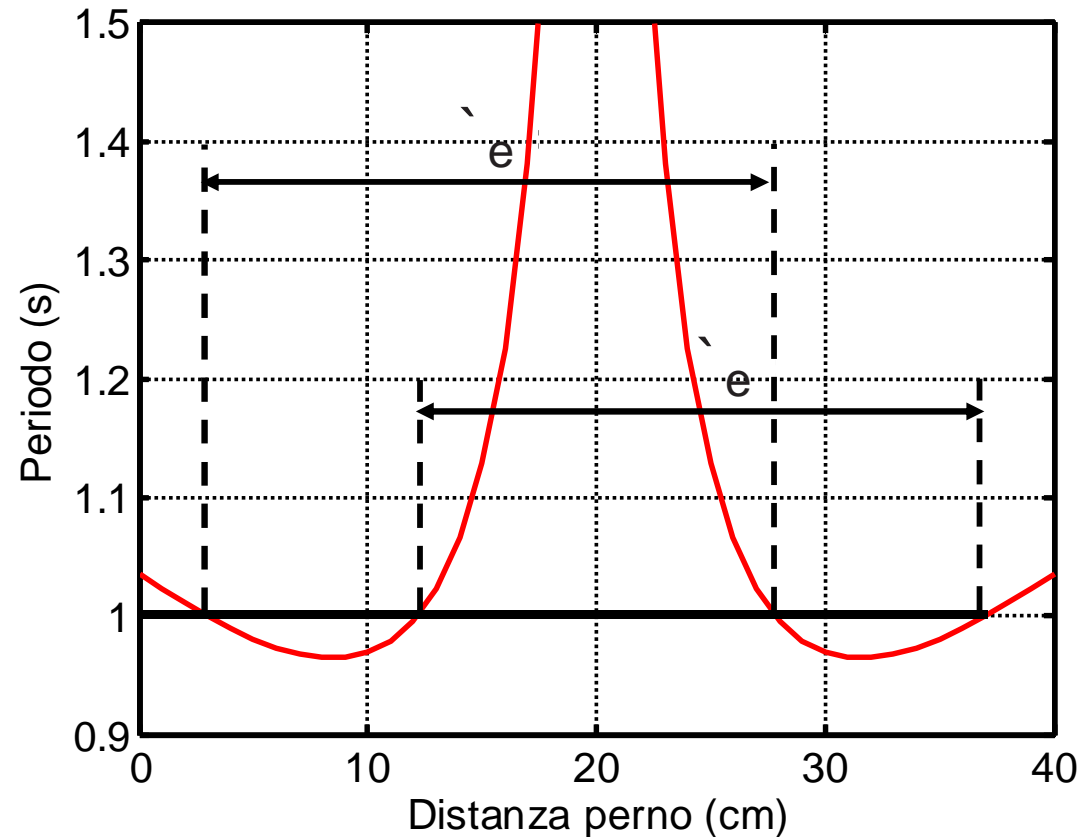
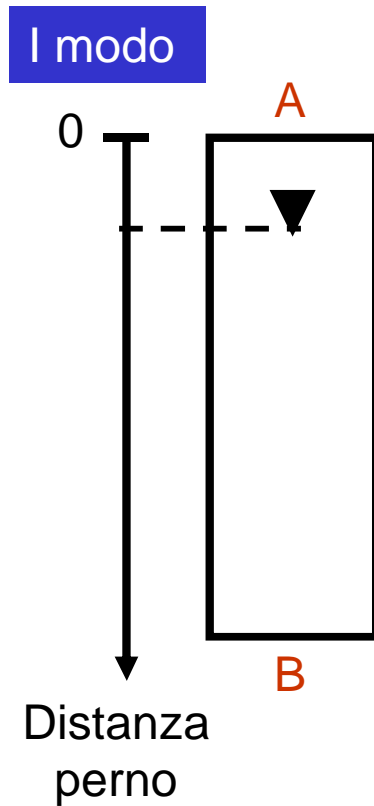


Misuro il periodo T al variare della posizione dell'asse di oscillazione.



Misuro il periodo T al variare della posizione dell'asse di oscillazione.

Disegno le curve che meglio approssimano le misure.

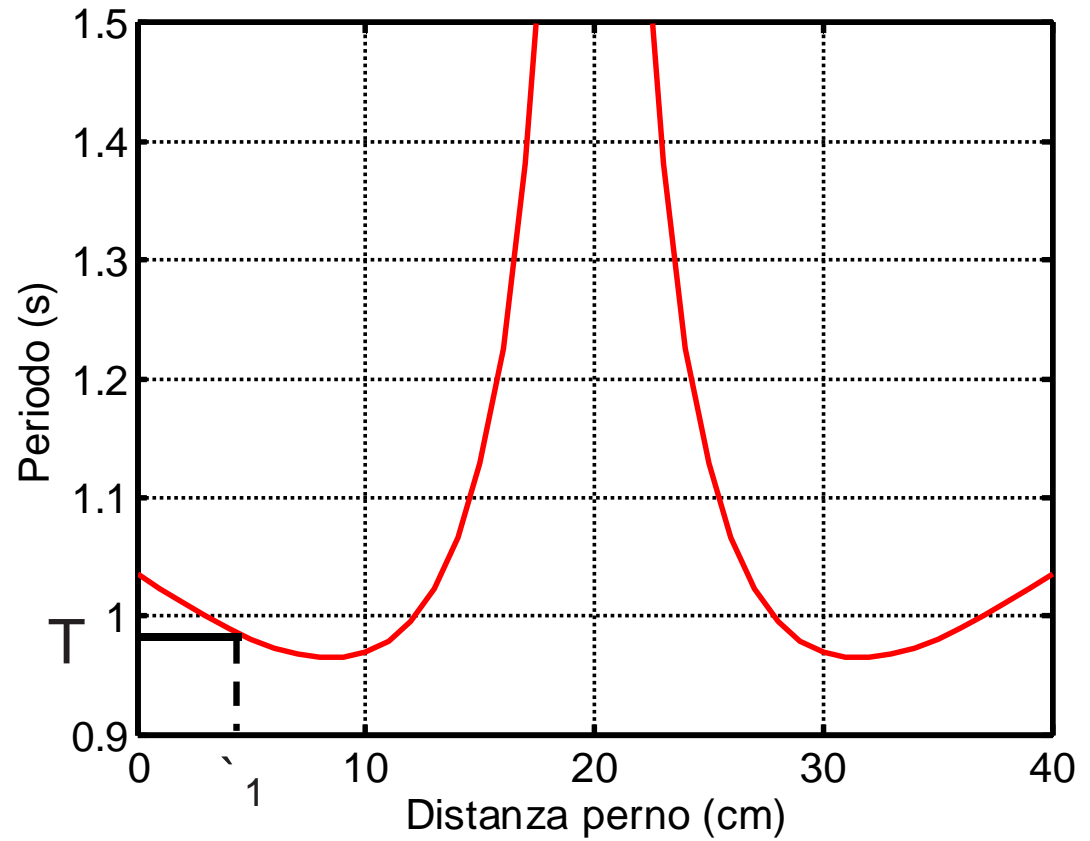
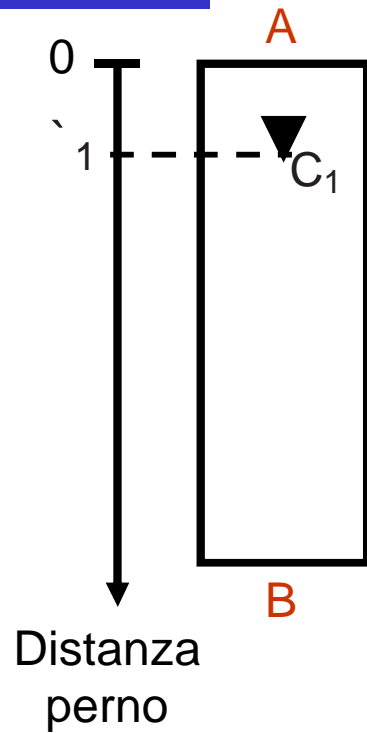


Misuro il periodo T al variare della posizione dell'asse di oscillazione.

Disegno le curve che meglio approssimano le misure.

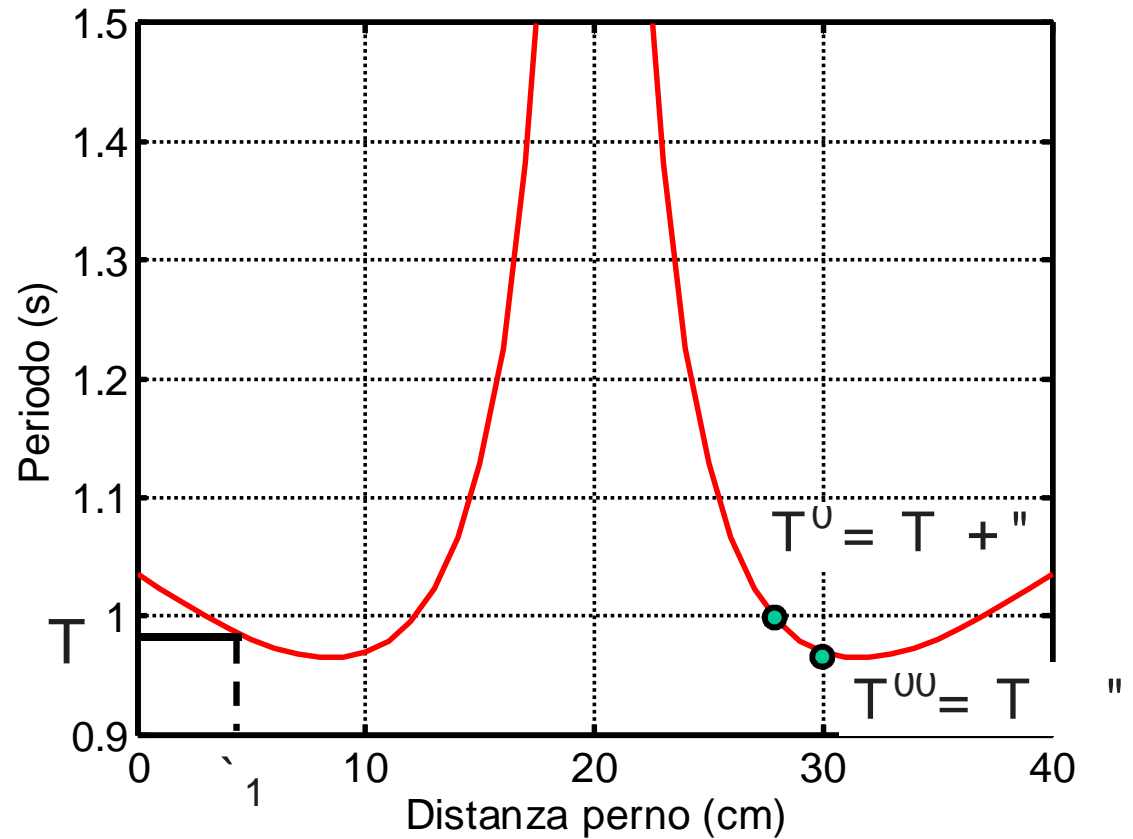
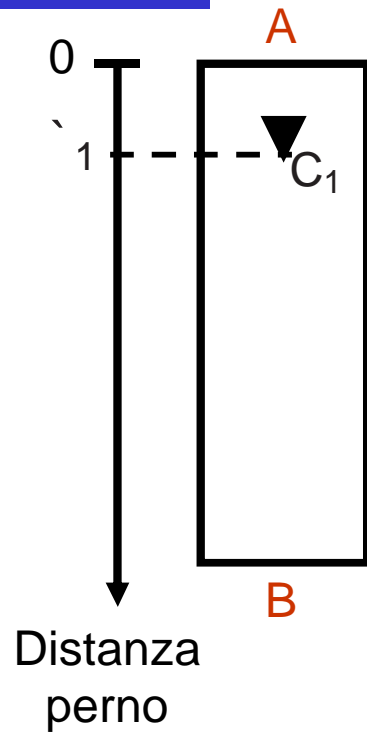
Scelgo un periodo e leggo sul grafico la lunghezza equivalente e

Il modo



Fisso una posizione del coltello C_1 e misuro il periodo T^* .

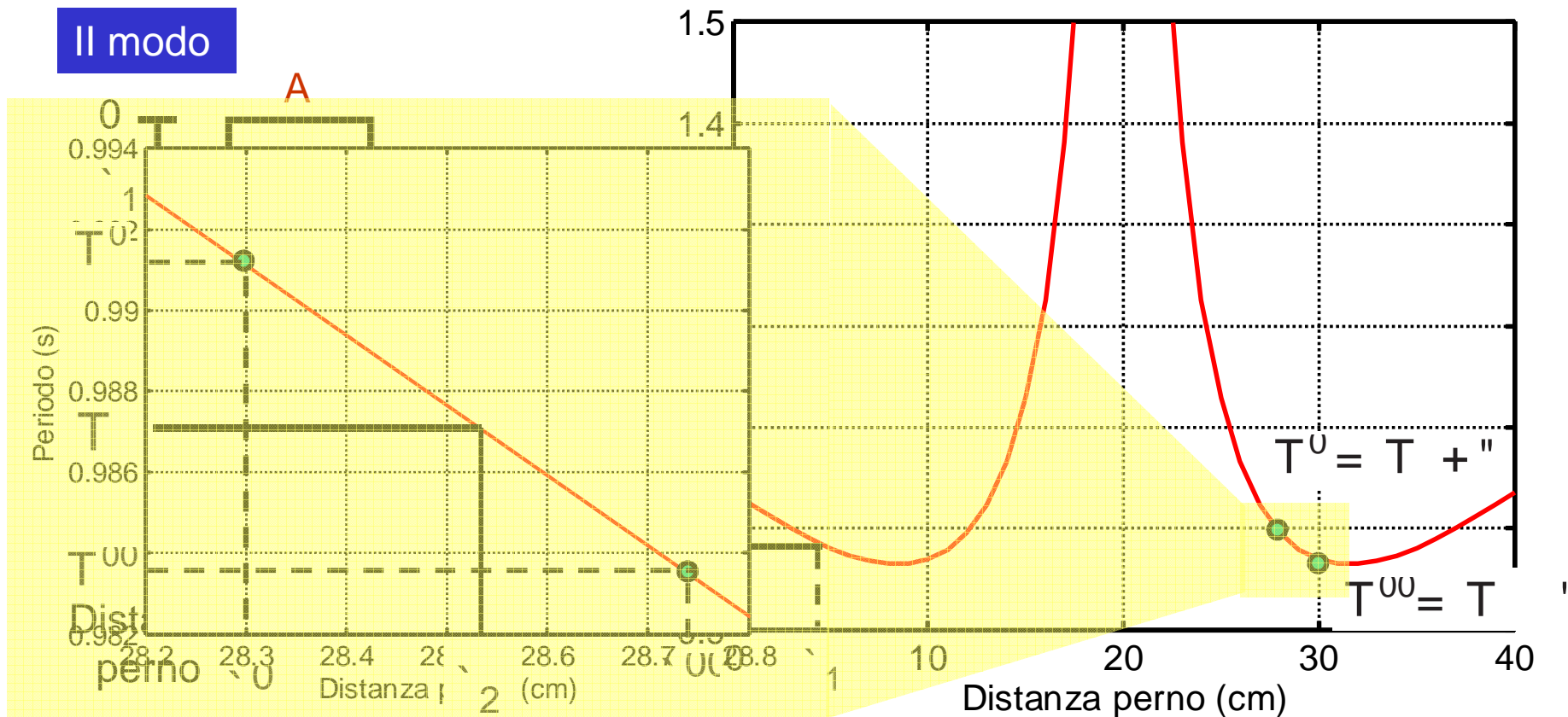
Il modo



Fisso una posizione del coltello C₁ e misuro il periodo T*.

Scelgo la posizione di C₂ così da avere **due** periodi di poco differenti da T*.

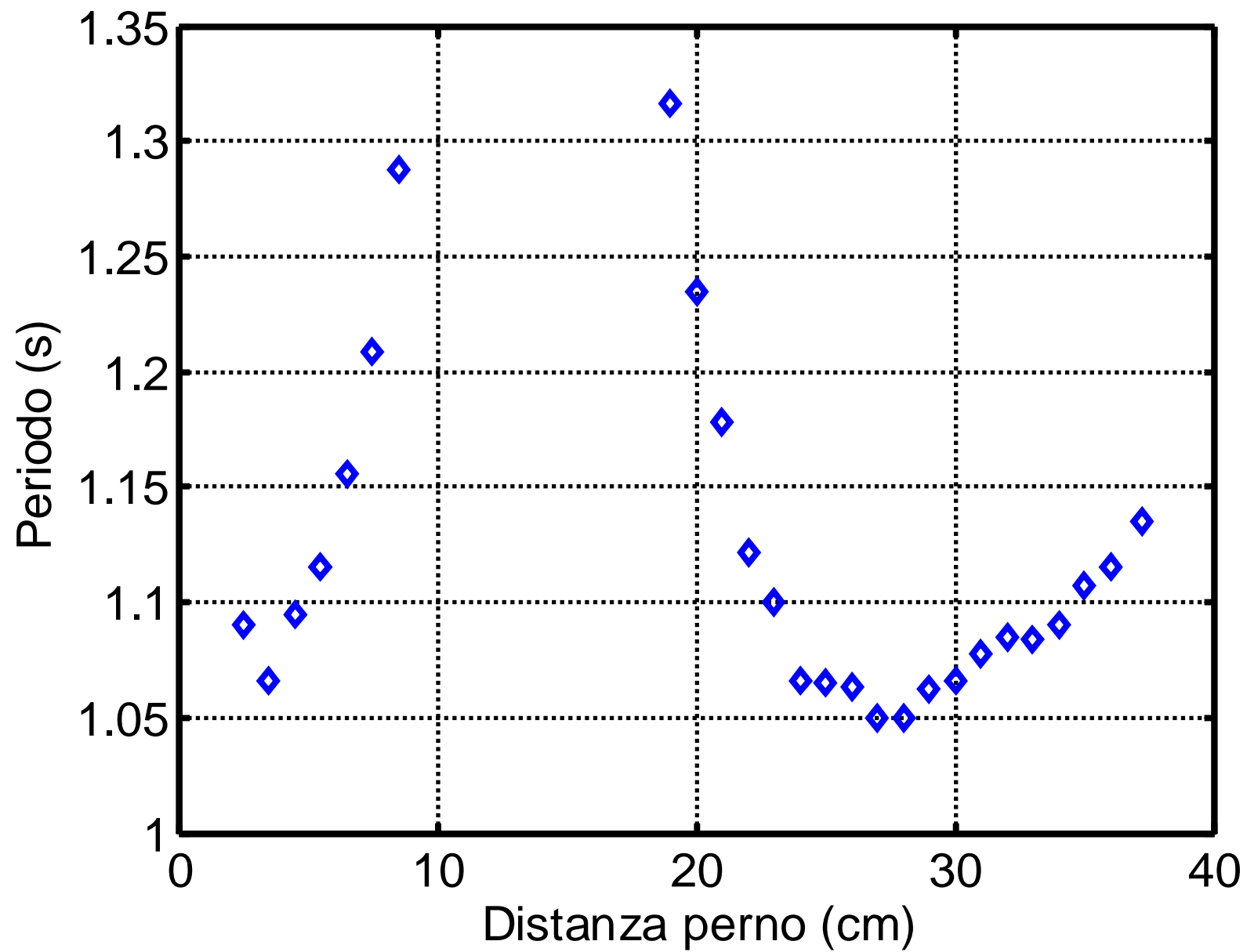
Il modo

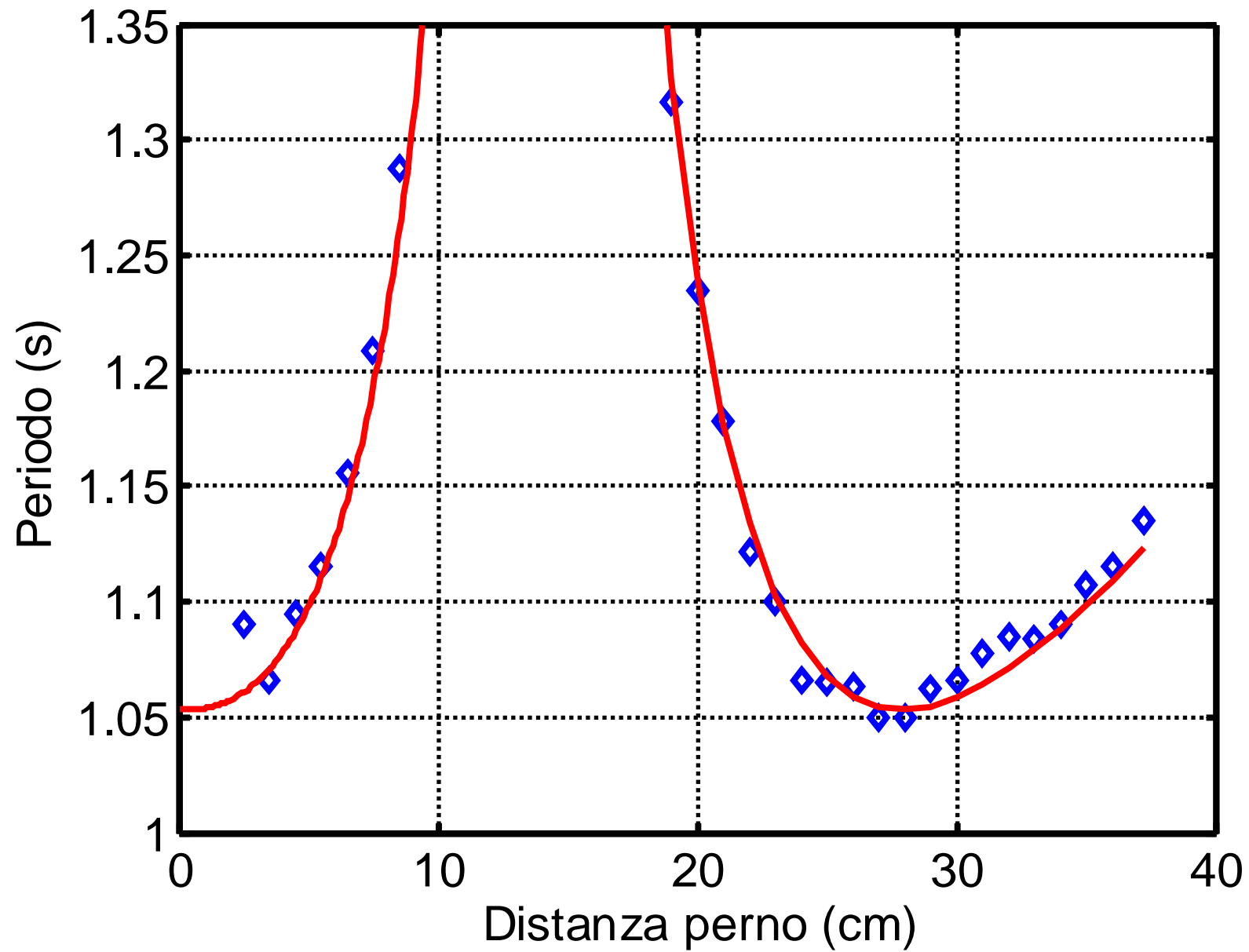


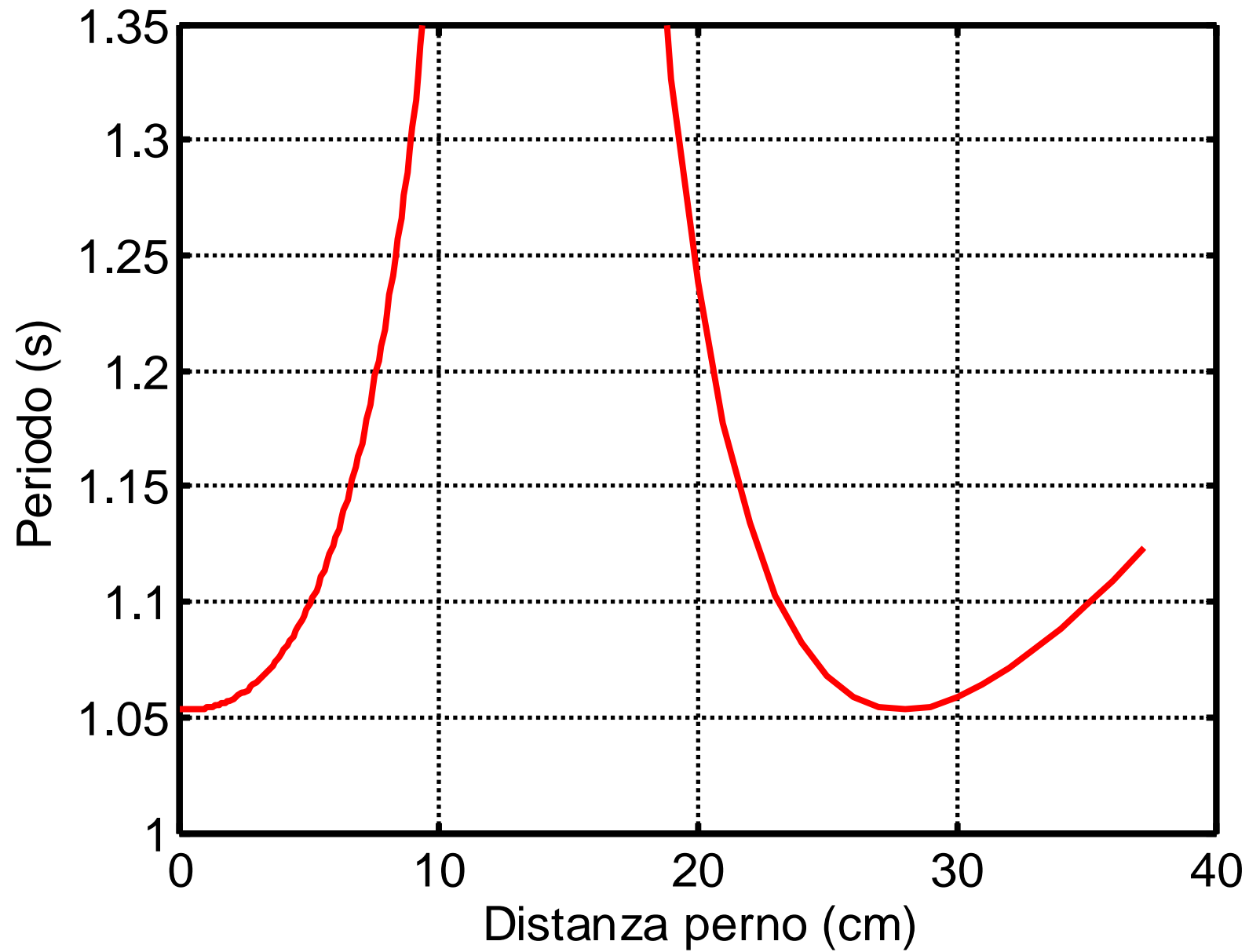
Fisso una posizione del coltello C_1 e misuro il periodo T^* .

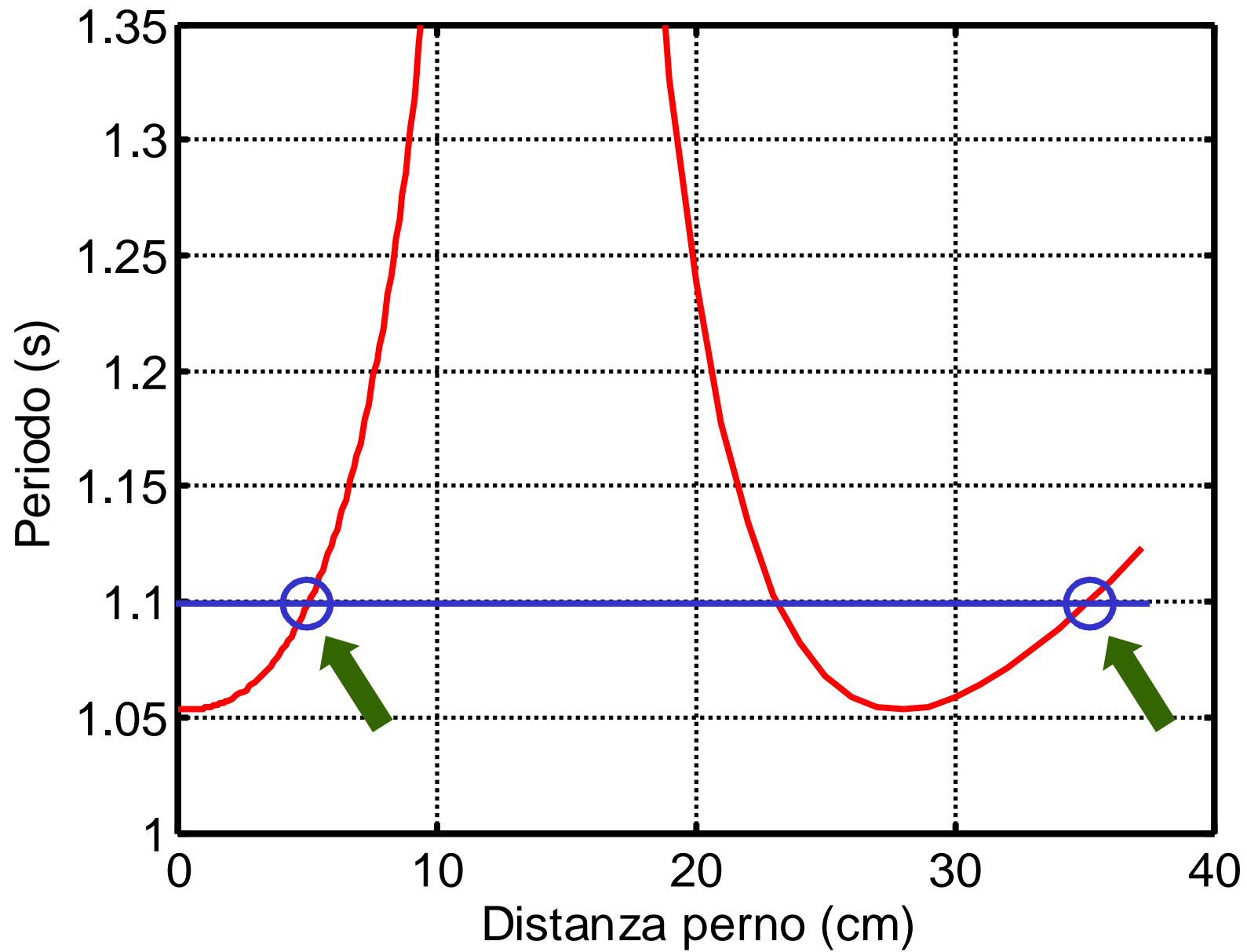
Scelgo la posizione di C_2 così da avere **due** periodi di poco differenti da T^* .

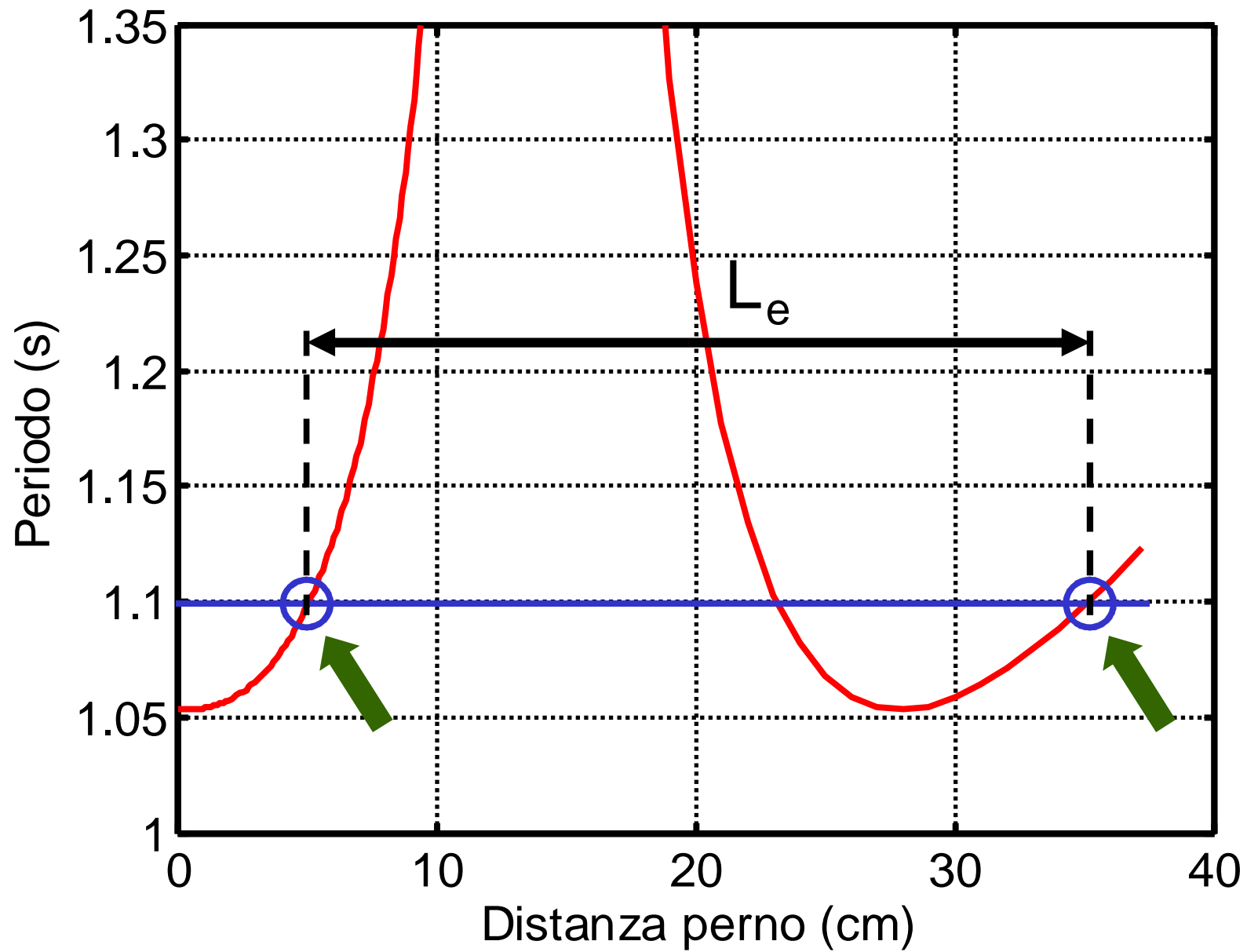
Dalla retta passante per i due periodi ricavo $\epsilon = \frac{T^0 - T^{00}}{x_2 - x_1}$

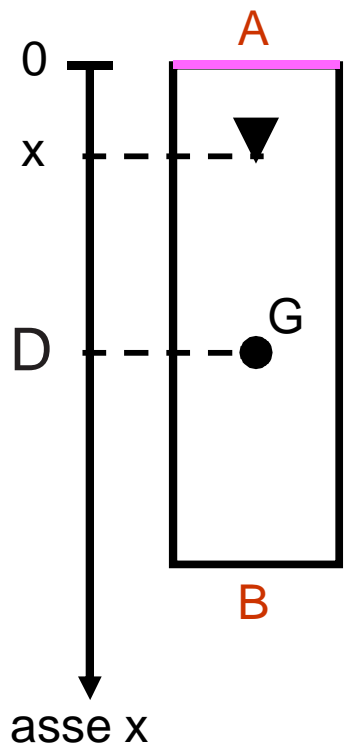












$$T = 2 \sqrt{\frac{I_0 + M(D-x)^2}{MgxD}}$$

