

$$E_p = \frac{1}{2} k x^2 \Rightarrow \frac{1}{2} 0,1013 \cdot 0,105^2 \quad \text{--- (X)}$$

Elastic $\frac{1}{2} k x^2 = \frac{1}{2} 0,1013 \cdot 0,101025$

Longueur de $\begin{bmatrix} 25,15 \\ \text{cm} \end{bmatrix}$ $E_p = 0.00056142$

$10,5 = L_0$ $E_c = E_p = \frac{1}{2} m v^2 \Rightarrow 0,00112344 = v^2$

$v = 0,1935 \text{ m/s}$ $3,921$

$L_1 = 28 \text{ cm}$ $m = 500 \text{ g}$ $\frac{0,4}{3,921} = 0,1013 \text{ N/m}$

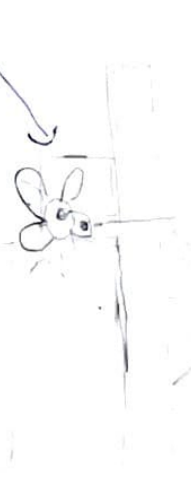
$L_2 = 22,5$ $m = 400$

Bombes $x=1, y=1$

$V_0 = \sqrt{\frac{0,1(x^2 + y^2)}{\sin(2 \cdot 0)}}$ $\sqrt{\frac{0,1(1^2 + 1^2)}{\sin(90^\circ)}}$

$V_0 = \sqrt{13,86} = 3,72 \text{ m/s}$ (im loc de centrifugation)

Servomoteur
Bombes tendue
d'acier



$F = k \cdot x$ $x = \frac{4,905 \text{ N}}{0,1013 \text{ N/m}} = 48,435 \text{ cm}$

action $\frac{1}{y}$

Support pt.

mesures précédentes

$a = 11$ $8,01 \text{ cm}$

$a^2 = (7,5)^2 + 5^2 = 56,25 + 25 = 81,25$