

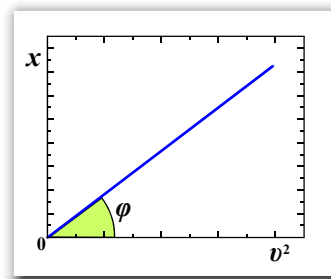
• Πλάτος Μπίλιας: $\Delta x = 1,9 \text{ cm}$

• Ταχύτητα Διέλευσης από κάθε Φ/Π: $v_i = \frac{\Delta x}{\Delta t_i}$ Δt_i : από F1



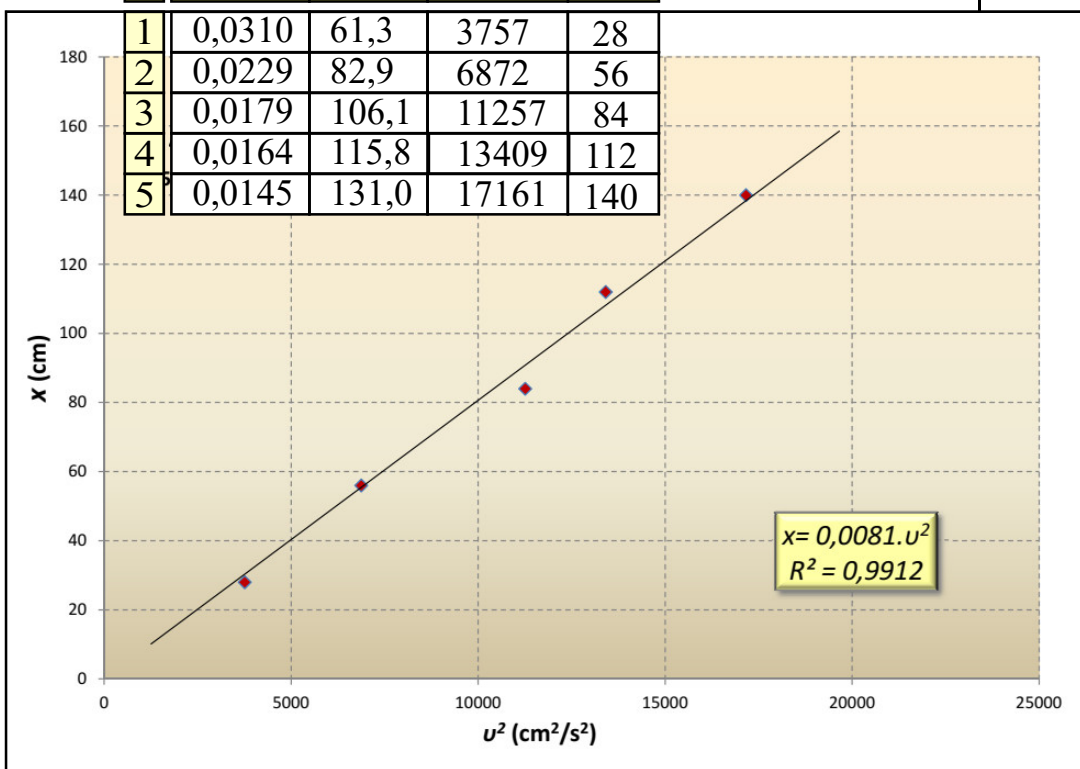
ΕΟΕ_xK:

$$\left. \begin{aligned} x &= \frac{1}{2}at^2 \\ v &= at \end{aligned} \right\} \Rightarrow x = \frac{1}{2a}v^2$$



$$\epsilon\phi\phi = \frac{1}{2a} \Rightarrow a = \frac{1}{2\epsilon\phi\phi}$$

Φ/Π	Δt (s)	v (cm/s)	v^2 (cm ² /s ²)	x (cm)
1	0,0310	61,3	3757	28
2	0,0229	82,9	6872	56
3	0,0179	106,1	11257	84
4	0,0164	115,8	13409	112
5	0,0145	131,0	17161	140



$$x = 0,0081 \cdot v^2$$

$$a = \frac{1}{2\epsilon\phi\phi} \Rightarrow a = \frac{1}{2 \cdot 0,0081}$$

$$a = 61,7 \text{ cm/s}^2$$

