

REVISIONS CHRONOPHOTOGRAPHIE EXERCICES CORRECTION

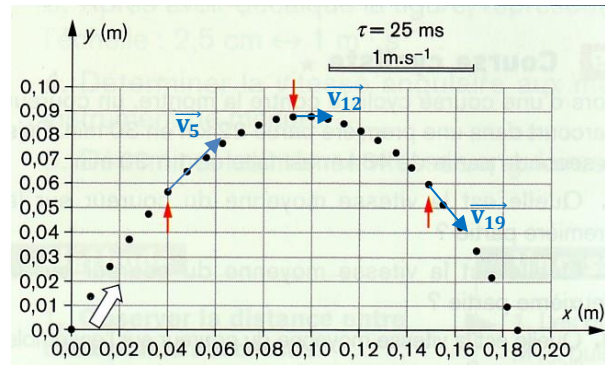
Mouvement sur table à coussin d'air

Echelle de la courbe : 0,6 cm ↔ 0,02 m

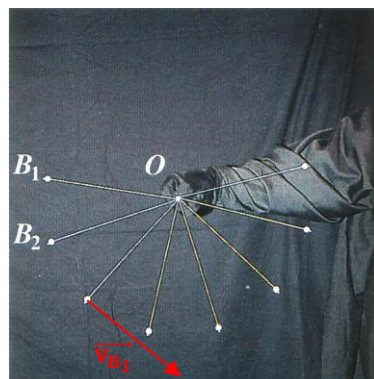
$$v_5 = \frac{M_4 M_6}{2\tau} = \frac{0,75 \times \frac{0,02}{0,6}}{2 \times 25 \cdot 10^{-3}} = 0,5 \text{ m} \cdot \text{s}^{-1}$$

$$v_{12} = \frac{M_{11} M_{13}}{2\tau} = \frac{0,4 \times \frac{0,02}{0,6}}{2 \times 25 \cdot 10^{-3}} = 0,3 \text{ m} \cdot \text{s}^{-1}$$

$$v_{19} = \frac{M_{18} M_{20}}{2\tau} = \frac{0,6 \times \frac{0,02}{0,6}}{2 \times 25 \cdot 10^{-3}} = 0,4 \text{ m} \cdot \text{s}^{-1}$$



Bille d'acier



Distances : $B_2 B_3 = B_3 B_4 = 0,9 \text{ cm}$

$$v_{B_3} = \frac{d_{B_2 \rightarrow B_4}}{2\tau} = \frac{B_2 B_3 + B_3 B_4}{2\tau} = \frac{0,1 \times 2}{40 \cdot 10^{-3}} = 5,0 \text{ m} \cdot \text{s}^{-1}$$

25 cm = 0,25 m	1,75 cm = 1,75 · 10 ⁻² m
0,1 m	0,9 cm = 0,9 · 10 ⁻² m