

Zadanie 10.2

D.

$$1 \mu\text{m} = 10^{-24} \text{ m}$$

$$m = 60 \text{ kg}$$

$$v = \frac{5}{6} \text{ m/s}$$

$$h = 6,63 \cdot 10^{-34} \text{ J}\cdot\text{s}$$

$$\lambda = ?$$

$$\lambda = \frac{h}{mv}$$

$$\lambda = \frac{6,63 \cdot 10^{-34} \text{ J}\cdot\text{s}}{60 \text{ kg} \cdot \frac{5}{6} \text{ m/s}} =$$

$$0,1326 \cdot 10^{-34} \text{ m} = 1,326 \cdot 10^{-35} \text{ m}$$

$$\lambda = 1,326 \cdot 10^{-11} \cdot 10^{-24} \text{ m} = 1,326 \cdot 10^{-11} \mu\text{m}$$