

TAREAS

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$$m = 6 \times 10^{-24} \text{ kg.}$$

Def. Clásica

$$L = m v R$$

$$R = 7.5 \times 10^{-4} \text{ m}$$

$$v = 3 \times 10^4 \text{ m/s.}$$

Momentos Cuantizados

$$L = \hbar n.$$

$$n = \frac{m v R}{\hbar} = 2.56 \times 10^{74}$$

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a) Serie de Lyman. ($n_f = 1$)

$$\frac{1}{\lambda} = R \left(1 - \frac{1}{n_i^2} \right) \Rightarrow n_i = \left(1 - \frac{1}{\lambda R} \right)^{-1/2}$$

$$n_i = \sqrt{\frac{\lambda R}{\lambda R - 1}}$$

$$b) \lambda = 102.55 \text{ nm}$$

$$h_i = 3$$
