

答案、学长笔记、辅导班课程，访问

参考答案 (9) 年

$$- (1) \frac{1}{m_2^*} = \frac{1}{\hbar^2} \frac{d^2 E}{dk^2} = \frac{1}{\hbar^2} \cdot (-1.106 \times 10^{-34}) \cdot 2$$

$$m_2^* = - \frac{\hbar^2}{2 \times 1.106 \times 10^{-34}} = - \frac{(1.054 \times 10^{-34})^2}{2 \times 1.106 \times 10^{-34}}$$

$$= - \frac{5.467 \times 10^{-35}}{9.1095 \times 10^{-35}} m_0$$

$$= -0.6 m_0$$

$$\therefore m_2^* = -m_2^* = 0.6 m_0$$

(2) 波长

$$\lambda_A = -\lambda_B = -1 \times 10^6 \text{ cm}^{-1}$$