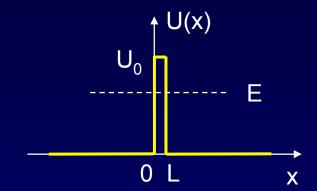
Solution

Consider a particle tunneling through a barrier.

- 1. Which of the following will increase the likelihood of tunneling?
 - a. decrease the height of the barrier
 - b. decrease the width of the barrier
 - c. decrease the mass of the particle



 $T \approx e^{-2KL}$ Decreasing U_0 or m_e will decrease K.

- 2. What is the energy of the emerging particles?

 - a. < initial energy b. = initial energy
- c. > initial energy

The barrier does not absorb energy from the particle. The amplitude of the outgoing wave is smaller, but the wavelength is the same. E is the same everywhere.

