Particle in a box energy

The energy of the particle in a box is a simple modification of The energy of a free particle. We have seen that this energy is:

$$E = \frac{\hbar^2 k^2}{2m}$$



Particle in a box energy

The boundary conditions determine that values of the wavevector k that are allowed. This in turn determine the quantized values of the energy: $n\pi$ h^2n^2

