# Particle in a Finite Well (3)

Important new result!  (worth putting on its own slide)

> For quantum entities, there is a finite probability amplitude, $\psi$, to find the particle inside a "classically-forbidden" region, *i.e.*, inside a barrier.

$$\psi_I(x) = C_1 e^{Kx} + C_2 e^{-Kx}$$