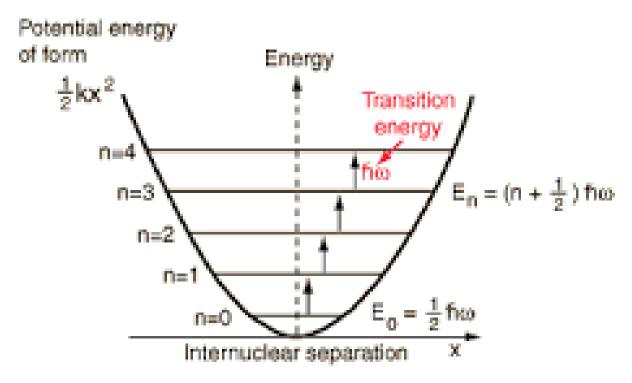
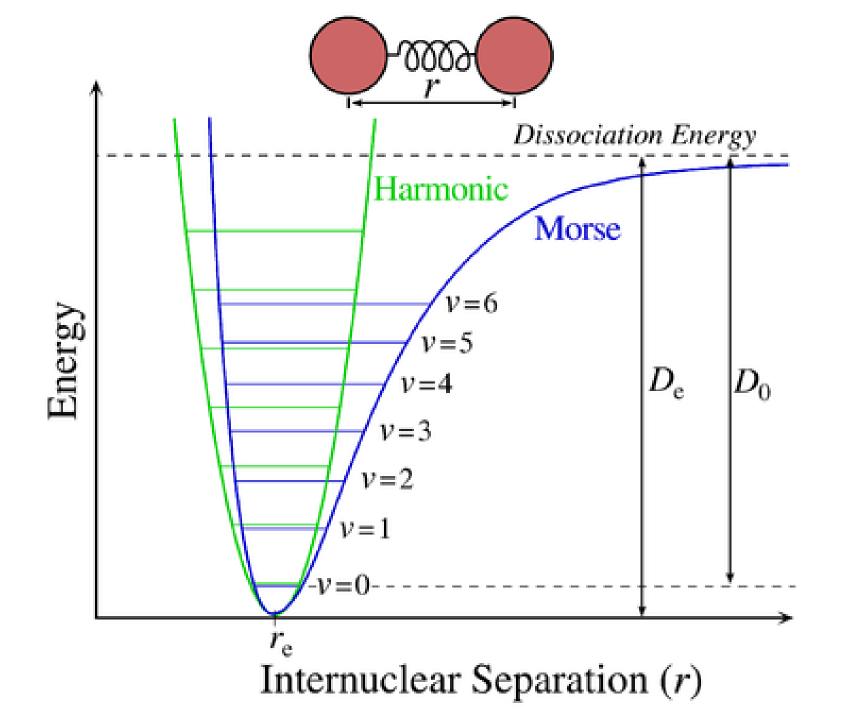
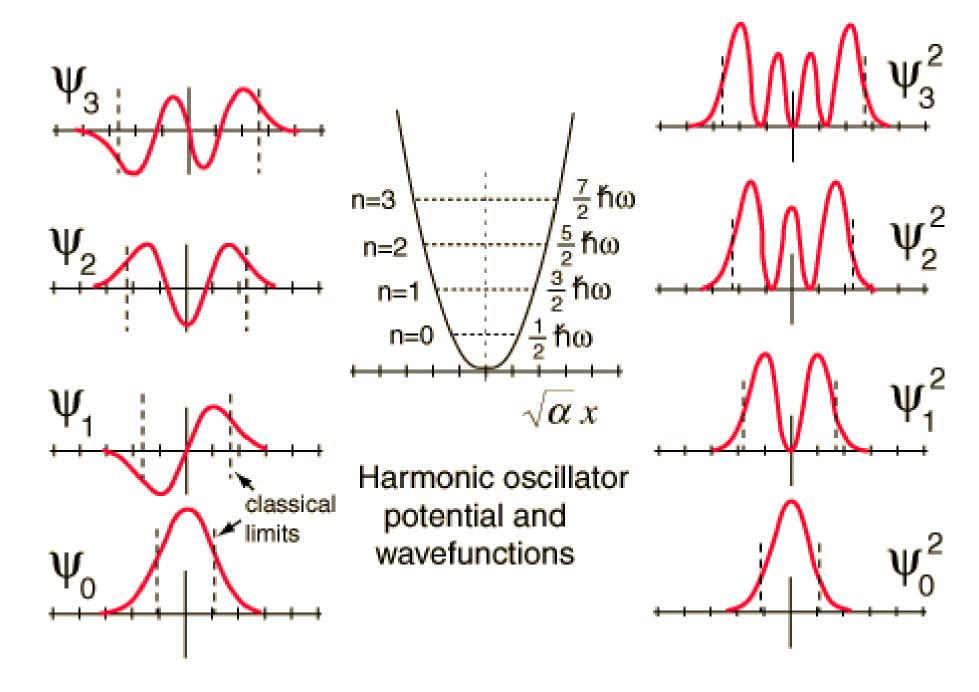
Simple Harmonic Oscillator

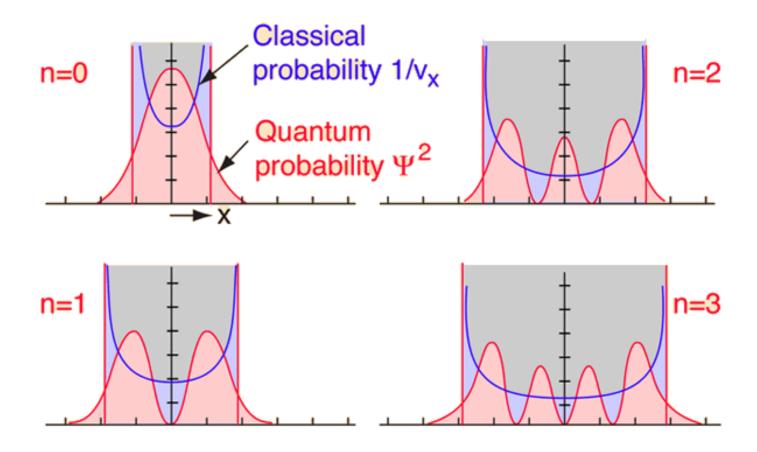




x=0 represents the equilibrium separation between the nuclei.







The Correspondence Principle:
As the quantum numbers
become large, quantum results
must reproduce classical
predictions.

