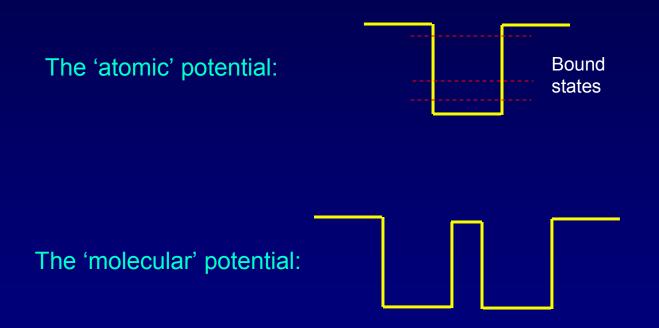
## Particle in a Finite Square Well Potential

This has all of the qualitative features of molecular bonding, but is easier to analyze..



Consider what happens when two "atoms" approach one other. There is one electron, which can be in either well (or both!). This is a model of the  $H_2^+$  molecule. We'll worry about the second electron later...