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one of the eigenfunctions of Equation 1, is the expectation value of H , that is; $\langle \Psi | H | \Psi \rangle = \int \Psi^* H \Psi dr$ Equation 4 The notation $\langle \Psi | H | \Psi \rangle$ emphasises the fact that the energy is a functional of the wavefunction. The energy is higher than that of the ground state unless Ψ corresponds to Ψ_0 - which is the variational theorem; $E[\Psi] \geq E_0$ Equation 5

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