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function is a functional equation, $f(x) = f(-x)$, that is

encountered as soon as the notion of a function is

introduced. At the other ex-treme, in the forefront of

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research, during the last two to three decades, the celebrated Young-Baxter functional equation has been at the heart of many different areas of math-

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one of the eigenfunctions of Equation 1, is the expectation value of H, that is; $[\psi | H | \psi] = \int \psi^* H \psi dr$
Equation 4 The notation $[\psi | H | \psi]$ 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; $[\psi_0 | H | \psi_0] = E_0$
Equation 5

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