

## Study on Application of Hypervirial Theorem in the Variational Method

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**Abstract:** We discuss a methodology problem which is crucially important for solving the Schrödinger equation in terms of the variational method. We present a complete analysis on the application of the hypervirial theorem for judging the quality of the trial wavefunction without invoking the precise solutions.

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**Key words:** hypervirial theorem, variational method, linear potential, Schrödinger equation

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