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Dear Salim A. Medjber

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Exact Solution of the Schrodinger Equation for One Dimensional Non-Stationary Morse Potential

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Abstract: We present the exact solution of Schrödinger equation for the one dimensional non stationary Morse potential. To solve this equation, we use the separation of variables method. We are reducing this equation into a second order differential equation by using an appropriate coordinate transformation. The Nikiforov-Uvarov (N-U) method is used in the calculations to get energy eigenvalues and corresponding wave functions.

Keywords: Non stationary Schrodinger equation, Morse potential, separation of variables method, Nikiforov-Uvarov method.