Biocomplex Quantum Mechanics: Hyperbolic Morse Oscillator

Anuprava Biswas

Department Mathematics, Krishnath College, India
E-mail: anuprava0@gmail.com

ABSTRACT

An analytical method is presented to derive the entire spectrum of the hyperbolic valued Morse potential by solving the bicomplex-version of Schrodinger equation. The energy eigenvalues are found hyperbolic and the corresponding eigenfunctions are guided by generalized Laguerre orthogonal polynomials.