

## Energy Spectrum of a Bipartite Complicated-Coupled-Oscillator System

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Abstract: We present a general discussion on the eigenstate problem of a bipartite complicated-coupled-oscillator system. By use of a generalized intermediate entangled state representation, the eigenvalue and eigenfunction of Hamiltonian are analytically obtained. As its application, we obtain the energy spectrum for two special situations of Hamiltonian.

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Key words: generalized intermediate entangled state, bipartite coupled oscillator

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