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Identification Of $E \otimes \beta$ Jahn-Teller Systems and Their Finite Group
Invariance

Abstract

In this work we discuss finite group invariance of the Jaynes-Cummings Hamiltonian. We show Jaynes-Cummings Hamiltonian without rotating wave approximation is identical to the $E \otimes \beta$ Jahn-Teller Hamiltonian. We also obtain the the exact solution of Jaynes-Cummings Hamiltonian without rotating wave approximation, and modified Jaynes-Cummings Hamiltonian.