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The Quantum Rabi Model Solution

Some isolated exact solutions have been found for the two-mode quantum Rabi model [64, 119, 125] and the two-qubit quantum Rabi model [126, 127, 130, 134]. The problem of two-qubits has potential applications in quantum information technology because various quantum information resources, such as

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quantum entanglement and quantum discord, can be easily stored in two qubits in a common cavity [135].

The quantum Rabi model: solution and dynamics - IOPscience

the quantum Rabi model. Particular emphasis is given on the exact analytic solution obtained in terms of confluent

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Heun functions. The analytic solutions for various generalisations of the quantum Rabi model are also discussed. Results are also reviewed on the level statistics and the dynamics of the quantum Rabi model.

The quantum Rabi model: solution and dynamics

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The quantum Rabi model: solution and dynamics. This article presents a review of recent developments on various aspects of the quantum Rabi model. Particular emphasis is given on the exact analytic solution obtained in terms of confluent Heun functions. The analytic solutions for various generalisations of the quantum Rabi model are also

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discussed.

[1609.00434] The quantum Rabi model: solution and dynamics

The analytic solutions for various generalisations of the quantum Rabi model are also discussed. Results are also reviewed on the level statistics and the dynamics of the quantum Rabi

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model. The article concludes with an introductory overview of several experimental realisations of the quantum Rabi model.

The quantum Rabi model: solution and dynamics - IOPscience

The aim of the Bogoliubov transformation is to introduce a new

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bosonic. The quantum Rabi model: solution and dynamics5 operator to remove the linear terms in the operators a and a^\dagger in hamiltonian (11). Two different forms, $A = a + g$, $A^\dagger = a^\dagger + g$, (12) $B = a - g$, $B^\dagger = a^\dagger - g$, (13) of such operators have been used.

The quantum Rabi model: solution

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and dynamics

A generalization of the quantum Rabi model: exact solution and spectral structure 5 by an effective Hamiltonian $H = H_{\text{Rabi}} + \lambda z a y a (3) = \lambda a y a + \lambda z + g \lambda x (a + a y) + \lambda a a$; (4) where an additional term, $\lambda z a y a$, appears compared to the original quantum Rabi Hamiltonian H_{Rabi} .

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A generalization of the quantum Rabi model: exact solution ...

1963: Edwin Jaynes & Fred Cummings.
The model was originally developed in a 1963 article by Edwin Jaynes and Fred Cummings to elucidate the effects of giving a fully quantum mechanical treatment to the behavior of atoms

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interacting with an electromagnetic field. In order to simplify the math and allow for a tractable calculation, Jaynes and Cummings restricted their attention to the interaction of an atom with a single mode of quantum electromagnetic field.

Jaynes-Cummings model - Wikipedia

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The celebrated quantum Rabi model describes the simplest interaction of a two-level system with a single-mode boson field. When the coupling is large enough, the bare multilevel structure of a realistic circuit atom cannot be ignored even if the circuit is strongly anharmonic.

Semi-classical and quantum Rabi

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The quantum Rabi model is the simplest and most important theoretical description of light-matter interaction for all experimentally accessible coupling regimes. It can be solved exactly. and ...

(PDF) Symmetries in the Quantum

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Rabi Model

The classical Rabi problem gives some basic results and a simple to understand picture of the issue, but in order to understand phenomena such as inversion, spontaneous emission, and the Bloch-Siegert shift, a fully quantum mechanical treatment is necessary.. The simplest approach is through the two-

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level atom approximation, in which one only treats two energy levels of the atom in question.

Rabi problem - Wikipedia

The quantum Rabi model (QRM) describes the simplest and at the same time most important interaction between a two-level system (or qubit)

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and a single-mode bosonic cavity which is linear in the ...

The mixed quantum Rabi model | Scientific Reports

the exact solution, and the novel features—as compared to that of the original quantum Rabi model—are highlighted and discussed. Section 5,

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finally, contains a summary and outlook.
2. The quantum Rabi–Stark model As we have expounded in the introduction, the quantum Rabi model describes the interaction

Journal of Physics A: Mathematical and Theoretical PAPER ...

Although this model has had an

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impressive impact on many fields of physics [1] —in its semiclassical form, it is the basis for understanding nuclear magnetic resonance—many physicists may be surprised to know that the quantum Rabi model has never been solved exactly.

Physics - The dialogue between

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quantum light and matter

Introduction. The quantum Rabi model (QRM) describes the most simple and at the same time most. important coupling between a continuous degree of freedom (a mode of the light field) and a. discrete one (a two-level system or qubit) which is linear in the quadrature operators.

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Two-photon Rabi model: analytic solutions and spectral ...

The analytical exact solutions to the mixed quantum Rabi model (QRM) including both one- and two-photon terms are found by using Bogoliubov operators. Transcendental functions in terms of $4 \dots$

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(PDF) The mixed quantum Rabi model - ResearchGate

We have found the algebraic structure of the two-qubit quantum Rabi model behind the possibility of its novel quasi-exact solutions with finite photon numbers by analyzing the Hamiltonian in the ...

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Exceptional spectra of the two-qubit quantum Rabi model

The Quantum Rabi Model: coupling regimes, analytic solutions and dynamics. Elena Lupo (University of Palermo). Place: Sala de

Videoconferencias Time: 5.4.2017, 10:30

Title: The Quantum Rabi Model: coupling

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regimes, analytic solutions and dynamics. Despite the Quantum Rabi Model has been studied for years as model for the description of the light-matter interaction, the explicit expression of ...

The Quantum Rabi Model: coupling regimes, analytic ...

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The analytic solutions for various generalisations of the quantum Rabi model are also discussed. Results are also reviewed on the level statistics and the dynamics of the quantum Rabi model. The article concludes with an introductory overview of several experimental realisations of the quantum Rabi model.

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The quantum Rabi model: solution and dynamics - CORE

An analytical method is developed to study the two-mode quantum Rabi model. For certain specific parameter conditions, especially for the resonant conditions, we obtain an infinite number of the exact solutions of the

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eigenfunctions and associated energies. It is shown that there exist new types of the exact energies which do not correspond to the level-crossings.

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