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The Quantum Rabi Model Solution

The quantum harmonic oscillator is the quantum-mechanical analog of the classical harmonic oscillator. Because an arbitrary smooth potential can usually be approximated as a harmonic potential at the vicinity of a stable equilibrium point, it is one of the most important model systems in quantum mechanics. Furthermore, it is one of the few quantum-mechanical systems for which an exact ...

Quantum harmonic oscillator - Wikipedia

Isidor Isaac Rabi (/ ' r α : b i / ; born Israel Isaac Rabi, July 29, 1898 – January 11, 1988) was an American physicist who won the Nobel Prize in Physics in 1944 for his discovery of nuclear magnetic resonance, which is used in magnetic resonance imaging. He was also one of the first scientists in the United States to work on the cavity magnetron, which is used in microwave radar and ...

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Isidor Isaac Rabi - Wikipedia

6.3 Rabi-Oscillations If the incident light has a constant field amplitude, E_0 , Eqs. (6.42) and (6.43) can be solved and we observe an oscillation in the population difference, the Rabi-oscillation [1]. To show this we introduce the detuning between field and atomic resonance $\Delta = \omega_{eg} - \omega$ (6.45) 2 and the new probability amplitudes $C(t)$...

Chapter 6 Interaction of Light and Matter

A solution is to actively de-multiplex the single photons from a single dot into different spatial modes 59. ... In the gate-based quantum computing model, ... obtaining its Rabi frequency ...

Integrated photonic quantum technologies | Nature Photonics

One example is the Rabi oscillation model of the interaction between atoms and electromagnetic waves. It would be much more difficult to calculate the equivalent results if treating the electromagnetic field as an actual quantum system along with the atom or molecule. ... I think it's the solution for the harmonic oscillator, as in this ...

Heisenberg equation of motion -- Partial derivative ...

Research efforts of cavity quantum electrodynamics have focused on the manipulation of matter hybridized with photons under the strong coupling regime 1-3. ... The model demonstrates a Rabi ...

Nonlinear valley phonon scattering under the strong ...

I am the inventor of PoMA (Proof-of-Match Adaptive), a fast, fair, and quantum-resistant leader-election mechanism for high-speed blockchains. I am also the inventor of a trust model that works with PoMA to realize a high-speed consensus mechanism that is Byzantine Fault-tolerant and has an extremely low executable footprint.

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