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Quantum Dissipative Systems Series In

This book -- originally published in 1990 and republished in 1999 as an enlarged second edition -- delves much deeper than ever before into the fundamental concepts, methods, and applications of quantum dissipative systems, including the most recent developments. In this third edition, 26 chapters from the second edition contain additional material and several chapters are completely rewritten.

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Series in Modern Condensed Matter Physics: Volume 13 Quantum Dissipative Systems

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Quantum Dissipative Systems (Third Edition) (3rd ed.) (Series In Modern Condensed Matter Physics series) by Ulrich Weiss. Major advances in the quantum theory of macroscopic systems, in combination with stunning experimental achievements, have brightened the field and brought it to the attention of the general community in natural sciences.

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Quantum Dissipative Systems (Fourth Edition) (4th ed.) by Ulrich Weiss. Starting from first principles, this book introduces the fundamental concepts and methods of dissipative quantum mechanics and explores related phenomena in condensed matter systems.

Quantum Dissipative Systems (Fourth Edition) (4th ed.)

The total Hamiltonian $H = H_S + H_B + H_{SB}$ (4.5) was used by various authors to study dissipative quantum systems for the special case of a harmonic potential $V(q)$. Probably the first proof that (4.5) in this case leads to dissipation can be found in the lucid paper by Magalinski.

Dissipative Quantum Systems

Quantum dissipative phenomenon occurs in 1. Cold atoms interacting with light (Quantum Optic) 2. Molecules (Quantum Chemistry) 3. Electrons and phonons in solids (Solid State Physics) Quantum dissipative transport occurs in Solids 1. Periodic Crystals 2. Quasicrystals 3. Amorphous materials (Silicon, metallic glasses, alloys) 4. Periodic crystals in Magnetic Fields

Dissipative Quantum Systems

The dissipative two-level system is a particular realization of the Caldeira-Leggett model that deserves special attention due to its interest in the field of quantum computation. The aim of the model is to study the effects of dissipation in the dynamics of a particle that can hop between two

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different positions rather a continuous degree of freedom.

Quantum dissipation - Wikipedia

A quantum system composed of N particles (such as qubits) is organized in space according to a particular geometry (in the figure, a one-dimensional lattice). Neighbouring systems are coupled to some local environments, which are dissipative in nature and tend to drive the system to a steady state.

Quantum computation and quantum-state engineering driven ...

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Quantum Dissipative Systems (Third Edition) (Series In ...

Yet, despite the considerable attention quantum transport and quantum walks in dissipative systems have received [2-10], there exists no general definition of quantum current in open quantum systems, which would take into account both tunneling and environment-induced hopping.

Quantum current in dissipative systems - IOPscience

adshelp[at]cfa.harvard.edu The ADS is operated by the Smithsonian Astrophysical Observatory under NASA Cooperative Agreement NNX16AC86A

Quantum Dissipative Systems - NASA/ADS

This is a general trend, namely pure dephasing coupling is less efficient for charging process. Indeed, as discussed in related context of quantum dissipative systems [42, 62, 63, 72], pure dephasing coupling induced dynamics can be explained effectively with a larger value of the dissipative coupling strength α .

Dissipative dynamics of an open quantum battery - IOPscience

Virtual Seminar Series. Starting in June 2020, we are hosting a series of online talks about topics related to Quantum Information Sciences in its various forms, including (but not limiting to): Quantum computers; Quantum simulation; Measuring the elusive Majorana fermion; Photons; Talks will be given by senior researchers as well as students and postdocs.

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In a recent study, members of the dynamic spintronics group at the University of Manitoba in Canada have proposed a new method to produce dissipative coupling in hybrid quantum systems.

Producing dissipative coupling in hybrid quantum systems

As quantum mechanics, and any classical dynamical system, relies heavily on Hamiltonian mechanics for which time is reversible, these approximations are not intrinsically able to describe dissipative systems. It has been proposed that in principle, one can couple weakly the system – say, an oscillator – to a bath, i.e., an assembly of many oscillators in thermal equilibrium with a broad ...

Dissipative system - Wikipedia

This approach will play fundamental roles in Floquet engineering in a broad class of dissipative quantum systems from atoms and molecules to mesoscopic systems, and condensed matter. INTRODUCTION State-of-the-art laser technology has opened new research fields in physics: the Floquet science and engineering (1 – 3).

General description for nonequilibrium steady states in ...

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