

## Nonequilibrium Many Body Theory Of Quantum Systems A Modern Introduction

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A unique, self-contained introduction to nonequilibrium many-body theory, with a focus on the time-dependent aspect. Topics range from basic quantum mechanics to nonequilibrium Green's function formalisms, and with full derivations of every result and an abundance of illustrative examples, this accessible book is ideal for graduate students and researchers alike.

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Theory The central goal of nonequilibrium many-body theory is to calculate real-time correlation functions. For example, we might want to calculate the 1-particle time-ordered Green 's function,  $iG(x,t;x_0,t_0) = \hbar \text{Tr} [ \rho \int (x,t) \dagger (x_0,t_0) ] = \text{Tr} [ \rho \int (x,t) \dagger (x_0,t_0) ] (1.1)$  in the Heisenberg picture, where  $\rho$  is an arbitrary nonequilibrium density

An Introduction to Nonequilibrium Many-Body Theory

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Nonequilibrium Many-Body Theory of Quantum Systems: A ...

Close to intrinsic resonances they show large optical nonlinearities due to many-body effects. Nonequilibrium Green functions are best suited to describe highly excited semiconductors, because they allow a consistent determination of the eigenmodes and the occupation numbers of the excitations involved.

Nonequilibrium many-body theory of optical nonlinearities ...

Nonequilibrium many-body theory of quantum systems : a modern introduction Subject: Cambridge [u.a.] , Cambridge Univ. Press, 2013 Keywords: Signatur des Originals (Print): T 13 B 3448. Digitalisiert von der TIB, Hannover, 2014. Created Date: 1/31/2014 3:56:31 PM

Nonequilibrium many-body theory of quantum systems : a ...

Title: Many-body theory of non-equilibrium systems. Authors: Alex Kamenev (Submitted on 11 Dec 2004 , last revised 7 Feb 2005 (this version, v2)) Abstract: Lectures notes for 2004 Les Houches Summer School on "Nanosopic Quantum Transport". These lectures contain an introduction to Keldysh formalism for interacting bosonic and fermionic systems ...

[cond-mat/0412296] Many-body theory of non-equilibrium systems

A large number can be anywhere from three to infinity (in the case of a practically infinite, homogeneous or periodic system, such as a crystal), although three- and four-body systems can be treated by specific means (respectively the Faddeev and Faddeev – Yakubovsky equations) and are thus sometimes separately classified as few-body systems.

Many-body problem - Wikipedia

INTRODUCTION : #1 Nonequilibrium Many Body Theory Of Publish By Penny Jordan, Nonequilibrium Many Body Theory Of Quantum Systems By this book provides a unique self contained introduction to nonequilibrium many body theory starting with basic quantum mechanics the authors introduce the equilibrium and nonequilibrium greens function

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Abstract The Green's function method is one of the most powerful and versatile formalisms in physics, and its nonequilibrium version has proved invaluable in many research fields. This book...

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Despite its great practical applicability to the analysis of many-body systems off thermal equilibrium, it also helps to answer the fundamental question, how the classical description of matter and fields (mostly the electromagnetic field) emerges from the underlying fundamental quantum theory.

Nonequilibrium Relativistic Quantum Many-Body Theory

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Nonequilibrium Many-Body Theory of Quantum Systems: A ...

The nonequilibrium Green function theory is described and used for the derivation of the quantum kinetic equations. Numerical methods for the solution of the retarded quantum kinetic equations are discussed and results are presented for high-field transport and for mesoscopic transport phenomena.