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Theory The central goal of nonequilibrium

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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, $iG(x,t;x_0,t_0) = \langle T[\psi(x,t)\psi^\dagger(x_0,t_0)] \rangle = \text{Tr}[\rho T[\psi(x,t)\psi^\dagger(x_0,t_0)]]$ (1.1) in the Heisenberg picture, where ρ is an arbitrary nonequilibrium density

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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 "Nanoscopic 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.

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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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