Nonequilibrium Green Functions Approach To Inhomogeneous Systems

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Nonequilibrium Green Functions Approach To

Nonequilibrium Green's function's approach to the calculation of work statistics. The calculation of work distributions in a

quantum many-body system is of significant importance and also of formidable difficulty in the field of nonequilibrium quantum statistical mechanics.

[2001.08061] Nonequilibrium Green's function's approach to ...

Nonequilibrium Green’s Function’s Approach to the Calculation of Work Statistics Zhaoyu Fei

and H. T. Quan Phys. Rev. Lett. 124, 240603 – Published 18 June 2020

Nonequilibrium Green's Function's Approach to the ...

The theoretical approach is based on real-time Green’s functions (Keldysh Green’s functions), directly solving the two-time Kadanoff-Baym equations (KBE). This field has seen a rapid

development over the last decade, with new applications emerging in plasma physics, semiconductor optics and transport, nuclear matter and high-energy physics.

Nonequilibrium Green's Functions Approach to Inhomogeneous ...

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Nonequilibrium Green's Functions Approach to

Inhomogeneous ...

nonequilibrium Green’s function approach to artificial atoms. This not only extends previous NEGF applications that are mostly concerned with quasi-homogeneous quantum systems (non-ideal quantum gases, nuclear matter, plasmas etc.—for a more detailed overview see Chap. 2),

Nonequilibrium

Green’s function approach to artificial atoms

2.1. Contour Green functions In the Keldysh/Kadanoff–Bay m approach, the central quantity is the one-particle nonequilibrium Green function G, which is the time-ordered expectation value of the product of two field operators: Gð1;2Þ¼ i/T C½C^ Hð1ÞC^ y Hð2Þ S; ð4Þ where the

variable 1 ¼ðr 1;s 1;t 1Þ comprises position, spin projec-

Nonequilibrium Green function approach to photoionization ...

The NEGF approach can be easily expressed using a localized basis set where you can define local Hamiltonians and local Green's Functions. In the transmission function

for a device with N layers,...

How to implement nonequilibrium Green's function (NEGF ...

This book offers a self-contained introduction to non-equilibrium quantum particle dynamics for inhomogeneous systems, including a survey of recent breakthroughs pioneered by the

authors and others. The approach is based on real-time Green's functions. Balzer, Karsten; Bonitz, Michael

Nonequilibrium Green's functions approach to inhomogeneous ...

The theory and approach laid out for 1D serves as the basis for 2D and 3D. Based on a talk presented at the conference

“Progress in Nonequilibrium Green’s Functions, Dresden, Germany, 19.-22. August 2002”.

NON-EQUILIBRIUM GREEN’S FUNCTIONS IN SEMICONDUCTOR DEVICE ...

In mathematics, a Green's function is the impulse response of an inhomogeneous linear differential operator defined on a domain with specified initial

conditions or boundary conditions. This means that if L is the linear differential operator, then the Green's function G is the solution of the equation LG = δ, where δ is Dirac's delta function; the solution of the initial-value problem Ly = f is the convolution (G * f), where G is the Green's function. Through the superposition principle ...

Green's function - Wikipedia

We put forward a first-principle nonequilibrium Green’s-function (NEGF) approach to calculate the transient photoabsorption spectrum of optically thin systems. The method can deal with pump fields of arbitrary strength, frequency,an ddurationaswellasoverl appingandnonoverlappi

ngpumpandprobepulses.Theelectron-electron

First-principles nonequilibrium Green’s-function approach ...

Nonequilibrium superoperator Green’s function approach to inelastic resonances in STM currents Upendra Harbola, Jeremy Maddox, and Shaul Mukamel Department of Chemistry, University of California,

Irvine, California 92697-2025, USA
Received 29 May 2005; revised manuscript received 11 January 2006; published 5 May 2006

Nonequilibrium superoperator Green's function approach to ...
within the nonequilibrium Green's function formalism. This allows the derivation of dynamic

conduc-tance which is appropriate for nonequilibrium situations and which satisfies the current conservation and gauge invariance requirements. This formalism presents a significant generalization to previous

Current Partition: A Nonequilibrium Green's Function Approach

The theory part gives a self-contained introduction to nonequilibrium Green's functions (NEGF) including the extended Keldysh time contour, common matrix representations and the analytical properties of the one-particle nonequilibrium Green's function.

Nonequilibrium Green's Functions | SpringerLink

Thingna, "Nonequilibrium Green's function method for quantum thermal transport," Front. Phys. 9, 673 (2014). • See also textbooks by Haug & Jauho, Rammer, Datta, Stefanucci & van Leeuwen, etc. 3. Lecture Zero ... Boltzmann approach to transport Tight-binding model □= ...

Nonequilibrium

Green’s Function

The model is solved by the nonequilibrium Green functions approach combined with different self-energy approximations, including the second-Born and GW self-energy, to take into account electronic correlations. The description allows us to predict the correlated nonequilibrium dynamics

Femtosecond Electron Dynamics in Graphene Nanoribbons - A ...

librium many-body systems using the nonequilibrium Green's function (NGF) method. The basic aim is to describe time evolution of the many-body system from its initial state over its transient dynamics to its long time asymptotic evolution. First, we

discuss basic aims of transport theories to motivate the introduction of the NGF techniques. Sec-

Electron systems out of equilibrium: Nonequilibrium Green ...

Abstract. This review deals with the state of the art and perspectives of description of nonequilibrium many-body systems using

the nonequilibrium Green's function (NGF) method. The basic aim is to describe time evolution of the many-body system from its initial state over its transient dynamics to its long time asymptotic evolution.

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