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approach to the calculation of work statistics Zhaoyu Fei, H. T. Quan 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.

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Green's function's approach to ...

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

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physics, semiconductor optics and transport, nuclear matter and high-energy physics.

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Green function on the special contour C_i . This will be the basis for the following discussion of non-equilibrium Green functions. 1.1 Equilibrium Green functions In a non-equilibrium theory the distribution function f will become an independent quantity. Therefore, in

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In addition to the retarded and advanced Green functions, we need the correlation functions $G^>(x$

Lecture 5: The Non-Equilibrium Green Function Method

We put forward a first-principle nonequilibrium Green's-function (NEGF) approach to calculate the transient

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photoabsorption spectrum of optically thin systems. The method can deal with pump fields of arbitrary strength, frequency, and duration as well as overlapping and nonoverlapping pump and probe pulses. The electron-electron

**First-principles nonequilibrium
Green's-function approach ...**

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The Keldysh nonequilibrium Green function technique is used very widely to describe transport phenomena in mesoscopic systems. The technique is somewhat subtle, and a rigorous treatment would require much more time than we have at our disposal, see, for example, the text-book by Haug and Jauho.

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Introduction to the Keldysh nonequilibrium Green function ...

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,...

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

nonequilibrium green functions
approach to inhomogeneous systems
can be taken as competently as picked
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A method that overcomes all above-mentioned problems is the nonequilibrium Green functions (NEGF) approach [36,37]. It is not restricted to any specific lattice geometry and can

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describe nonequilibrium systems at weak and moderate interaction strength. Additionally, it can treat arbitrary excitations and external fields. The information of

Spectral properties of excited Hubbard clusters: a ...

Green's functions are also useful tools in

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solving wave equations and diffusion equations. In quantum mechanics, the Green's function of the Hamiltonian is a key concept with important links to the concept of density of states. The Green's function as used in physics is usually defined with the opposite sign, instead. That is,

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Green's function - Wikipedia

The nonequilibrium Green's function (NEGF)¹⁹ method is an alternative strategy to study the ultrafast electron dynamics of single-photon ionized atoms²⁰ and molecules.²¹ The main advantage of the NEGF approach is the possibility of simulating the photoionization process while including

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static and dynamical EE correlation
effects.

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Quasiclassical Green's function approach
to mesoscopic superconductivity. ... both
in equilibrium and nonequilibrium
situations. Thereby we demonstrate the

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common physical basis of various subtopics. Previous article in issue; ... Green's Functions and Condensed Matter, Academic Press, London (1980) Google Scholar. 34b.

Quasiclassical Green's function approach to mesoscopic ...

within the nonequilibrium Green's

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function formalism. This allows the derivation of dynamic conductance which is appropriate for nonequilibrium situations and which satisfies the current conservation and gauge invariance requirements. This formalism presents a significant generalization to previous

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Green's Function Approach

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 of

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excited graphene nanostructures of arbitrary geometry containing up to 100 carbon atoms for up to 25 fs.

Femtosecond Electron Dynamics in Graphene Nanoribbons - A ...

nonequilibrium greens function approach to artificial atoms this not only extends previous negf applications that

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are mostly concerned with quasi homogeneous quantum systems non ideal quantum gases nuclear matter plasmas etc for a more detailed overview see chap 2 but also places the artificially made atom on a profound theoretical basis in order to numerically study its greens function based

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stationary and time dependent
phenomena the nonequilibrium greens
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also known as the keldysh

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librium many-body systems using the
nonequilibrium Green's function (NGF)

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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:

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Nonequilibrium Green ...

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

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