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Quantum kinetic equation and universal conductance fluctuations in graphene K. Kechedzhi, I.O. Kashuba, and Vladimir I. Fal'ko^{1,2} ¹Department of Physics, Lancaster University, Lancaster LA1 4YB, United Kingdom ²Laboratoire de Physique des Solides, Université Paris-Sud, CNRS UMR 8502, F-91405 Orsay, France Received 15 January 2008; revised manuscript received 8 April

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2008; published 14 May 2008

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Kchedzhi, K. and Kashuba, O. and Falko, Vladimir (2008) Quantum kinetic equation and universal conductance fluctuations in graphene. Physical review B, 77 (19). ISSN 1098-0121 Preview. PDF (PhysRevB.77.193403) ...

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Quantum kinetic equation describes relaxation of non-equilibrium

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inhomogeneous distribution of electrons in a dis-ordered system. Using matrix Green functions in Keldysh representation, G^{γ} Note that, in Eq. 1, t_1, r_1, t_2 , we derive semiclassical form of Green functions for electrons in graphene.

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Calculating Thermodynamic and Kinetic Properties from Quantum Chemistry
Andrew S. Rosen 1 THERMOCHEMICAL PROPERTIES 1.1 QUANTUM CHEMISTRY AND THE 0 K LIMIT The energies obtained from quantum-chemical calculations almost universally correspond to the 0 K limit and represent the electronic energy of the

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system under investigation.

Calculating Thermodynamic and Kinetic Properties from ...

Three different approaches to the treatment of quantum effects in plasmas are reviewed: quantum fluid theory (QFT), phase-space kinetic theory (PKT) and quantum plasmadynamics (QPD). The simplest form of QFT is analogous to a nonrelativistic fluid model for an unmagnetized plasma with a potential electric field, ϕ . The wave nature of the electron is included through the so-called Bohm ...

Quantum kinetic theory for unmagnetized and magnetized ...

character of particles was to replace the classical kinetic and potential energy functions of with linear operator T, V and a wave equation of the form. $HE \Psi = \Psi (2)$ Where the solutions, Ψ . the so called wave functions, would describe the behavior of all the Particles, and the quantum-mechanical

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Computational Quantum Chemistry of Chemical Kinetic Modeling

Variational quantum algorithms for nonlinear problems . Tutorial: Tensor networks for strongly correlated quantum systems (PDF 1, PDF 2, PDF 3, PDF 4) (Video 1, Video 2) Huai-Yu Jian Tsinghua University, China: The optimal global regularity regularity for elliptic equations which is degenerate or singular on the boundary . Wei Jiang

Quantum and Kinetic Problems: Modeling, Analysis, Numerics ...

PHYSICAL REVIEW B97, 085201 (2018)
Second harmonic generation in the Weyl semimetal TaAs from a quantum kinetic equation Zhi Li, 1Ya-Qin Jin, Takami Tohyama,2 Toshiaki Iitaka,3 Jiu-Xing Zhang, ,* and Haibin Su4 5 † 1School of Materials Science and Engineering, Hefei University of Technology, Hefei 230009, Anhui, China 2Department of Applied Physics, Tokyo University of Science, Katsushika ...

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Quantum potential as part of the Schrödinger equation. The Schrödinger equation $\partial_t \psi = (-\nabla^2 + V)\psi$ is re-written using the polar form for the wave function $\psi = R e^{i\theta}$ with real-valued functions R and θ , where R is the amplitude (absolute value) of the wave function, and θ its phase. This yields two equations: from the imaginary and real part of the Schrödinger equation follow the continuity ...

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Quantum potential - Wikipedia

For this class of systems the quantum partition of kinetic energy is universal and the probability distribution is of the form $\rho \propto \exp(-\beta H)$, where the susceptibility is the Fourier transform of the response function and in more complicated cases can be calculated by the method of e.g. the retarded thermodynamic Green functions :

Quantum analogue of energy equipartition theorem - IOPscience

The method of NSO proved to be a general and universal approach to different nonequilibrium phenomena. ... Quantum kinetic equations are derived using the Keldysh Green's function formalism to ...

Non-Markovian Quantum Kinetics and Conservation Laws ...

W. Dou et al., "Universal approach to quantum thermodynamics of strongly coupled systems under nonequilibrium

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conditions and external driving,” Phys. Rev. B 101, 184304 (2020). A. A. Dzhioev and D. S. Kosov, “Super-fermion representation of quantum kinetic equations for the electron transport problem,” J. Chem. Phys. 134, 044121 (2011).

Modeling Energy Transfer in Quantum Thermal Machines

The Boltzmann equation or Boltzmann transport equation (BTE) describes the statistical behaviour of a thermodynamic system not in a state of equilibrium, devised by Ludwig Boltzmann in 1872. The classic example of such a system is a fluid with temperature gradients in space causing heat to flow from hotter regions to colder ones, by the random but biased transport of the particles making up ...

Boltzmann equation - Wikipedia

Quantum equation predicts universe has no beginning. News Article Science. Mar 1, 2016. Photo credit: NASA. By Lisa

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