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equilibrium variables. Systems, in a sense, near equilibrium. Non-equilibrium thermodynamics has been extensively studied for decades with important achievements, yet the general theory still missing. The framework is even more incomplete in the quantum case, non-equilibrium quantum statistical mechanics.

Non-Equilibrium Thermodynamics and Conformal Field Theory

Non-equilibrium thermodynamics is a branch of thermodynamics that deals with physical systems that are not in thermodynamic equilibrium but can be described in terms of variables (non-equilibrium state variables) that represent an extrapolation of the variables used to specify the system in thermodynamic equilibrium.

Non-equilibrium ...

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Chapter 2. Non-equilibrium Thermodynamics 4. 2.2. Onsager Regression Theory. At first glance, the relaxation of macroscopic non-equilibrium disturbances in a system might seem completely unrelated to the regression of microscopic fluctuations in the corresponding equilibrium system. However, they are intimately related by so-called

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The Union of Quantum Field Theory and Non-equilibrium Thermodynamics Thesis by Anthony Bartolotta In Partial Fulfillment of the Requirements for the degree of Doctor of Philosophy CALIFORNIA INSTITUTE OF TECHNOLOGY Pasadena, California 2018 Defended May 24, 2018

The Union of Quantum Field Theory and Non-equilibrium

'Non-equilibrium Thermodynamics and Statistical Mechanics' is an invaluable reference manual for experts already working in the field. Research scientists from different disciplines will find the overview of time-dependent systems stimulating and thought-provoking.

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literature on non-equilibrium thermodynamics and its relationship to evolutionary processes. 2
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QUANTUM FIELDS AND LIVING CELLS Tsv. D. TSVETKOV, G. PETROV and P. TSVETKOVA Institute of Cryobiology and Food Technologies, BG " 1407 Sofia, Bulgaria Abstract TSVETKOV, Tsv. D., G. PETROV

and P. TSVETKOVA, 2008. Non equilibrium thermodynamics by vacuum energy momentum tensor of interacting quantum fields and living cells. Bulg. J. Agric. Sci ...

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Introduction to Nonequilibrium Thermodynamics: From Onsager to Micromotors Based on the lecture "Nonequilibrium phenomena in micro and nanosystems" taught at Freie Universität Berlin Jan Korbel Faculty of Nuclear Sciences and Physical Engineering, CTU, Prague 6th Student Colloquium and School on Mathematical Physics, Stará Lesná 25. 8 ...

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