

a) The Euler-Lagrange equation for the coordinate x is given by

$$\frac{d}{dt} \frac{\partial \mathcal{L}}{\partial \dot{x}} = \frac{\partial \mathcal{L}}{\partial x} , \quad (1.55)$$

where

$$\frac{d}{dt} \frac{\partial \mathcal{L}}{\partial \dot{x}} = m\dot{x} + \frac{q}{c} \left(\frac{\partial A_x}{\partial t} + \dot{x} \frac{\partial A_x}{\partial x} + \dot{y} \frac{\partial A_x}{\partial y} + \dot{z} \frac{\partial A_x}{\partial z} \right) , \quad (1.56)$$

and

$$\frac{\partial \mathcal{L}}{\partial x} = -q \frac{\partial \varphi}{\partial x} + \frac{q}{c} \left(\dot{x} \frac{\partial A_x}{\partial x} + \dot{y} \frac{\partial A_y}{\partial x} + \dot{z} \frac{\partial A_z}{\partial x} \right) , \quad (1.57)$$

thus

$$\begin{aligned} m\ddot{x} = & \underbrace{-q \frac{\partial \varphi}{\partial x} - \frac{q}{c} \frac{\partial A_x}{\partial t}}_{qE_x} \\ & + \frac{q}{c} \left[\underbrace{\dot{y} \left(\frac{\partial A_y}{\partial x} - \frac{\partial A_x}{\partial y} \right)}_{(\nabla \times \mathbf{A})_z} - \underbrace{\dot{z} \left(\frac{\partial A_z}{\partial x} - \frac{\partial A_x}{\partial z} \right)}_{(\nabla \times \mathbf{A})_y} \right] \\ & \underbrace{\hspace{10em}}_{(\mathbf{F} \times (\nabla \times \mathbf{A}))_x} . \end{aligned} \quad (1.58)$$

or

$$m\ddot{x} = qE_x + \frac{q}{c} (\dot{\mathbf{r}} \times \mathbf{B})_x . \quad (1.59)$$

Similar equations are obtained for \ddot{y} and \ddot{z} in the same way. These 3 equations can be written in a vector form as

$$m\ddot{\mathbf{r}} = q \left(\mathbf{E} + \frac{1}{c} \dot{\mathbf{r}} \times \mathbf{B} \right) . \quad (1.60)$$

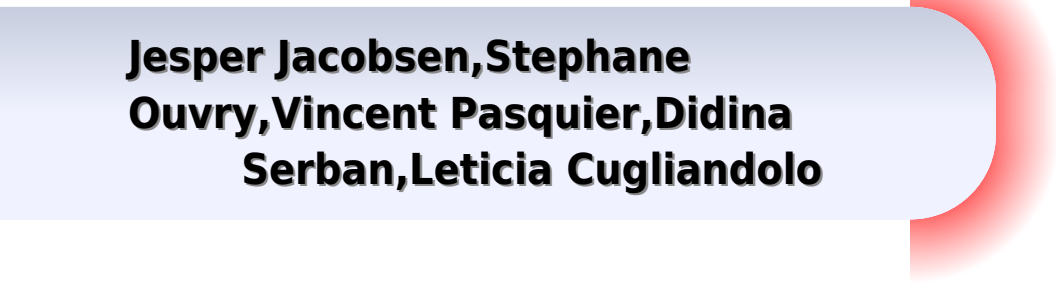
b) The variable vector canonically conjugate to the coordinates vector \mathbf{r} is given by

$$\mathbf{p} = \frac{\partial \mathcal{L}}{\partial \dot{\mathbf{r}}} = m\dot{\mathbf{r}} + \frac{q}{c} \mathbf{A} . \quad (1.61)$$

The Hamiltonian is thus given by

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Exact Methods in Low-dimensional Statistical Physics and Quantum Computing Jesper Jacobsen, Stephane Ouvry, Vincent Pasquier, Didina Serban, Leticia Cugliandolo, 2010-04-22 Recent years have shown important and spectacular convergences between techniques traditionally used in theoretical physics and methods emerging from modern mathematics combinatorics probability theory topology algebraic geometry etc These techniques and in particular those of low dimensional statistical models are instrumental in improving our understanding of emerging fields such as quantum computing and cryptography complex systems and quantum fluids This book sets these issues into a larger and more coherent theoretical context than is currently available For instance understanding the key concepts of quantum entanglement a measure of information density necessitates a thorough knowledge of quantum and topological field theory and integrable models To achieve this goal the lectures were given by international leaders in the fields of exactly solvable models in low dimensional condensed matter and statistical physics

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materials and devices from an experimental viewpoint Provides an in depth overview of the experimental techniques available to measure transport phenomena in micro and nanoscale materials Features case studies to illustrate how each technique works Highlights emerging areas of interest in micro and nanomaterial transport phenomena including spintronics

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Frahn,1971 Introduction to Quantum Statistical Mechanics N. N. Bogolubov, Jr.,2010 Introduction to Quantum Statistical Mechanics 2nd Edition may be used as an advanced textbook by graduate students even ambitious undergraduates in physics It is also suitable for non experts in physics who wish to have an overview of some of the classic and fundamental quantum models in the subject The explanation in the book is detailed enough to capture the interest of the reader and complete enough to provide the necessary background material needed to dwell further into the subject and explore the research literature **Lectures on Quantum Statistics** Werner Ebeling,Thorsten Pöschel,2019-05-11 Most of the matter in our universe is in a gaseous or plasma state Yet most textbooks on quantum statistics focus on examples from and applications in condensed matter systems due to the prevalence of solids and liquids in our day to day lives In an attempt to remedy that oversight this book consciously focuses on teaching the subject matter in the context of dilute gases and plasmas while aiming primarily at graduate students and young researchers in the field of quantum gases and plasmas for some of the more advanced topics The majority of the material is based on a two semester course held jointly by the authors over many years and has benefited from extensive feedback provided by countless students and co workers The book also includes many historical remarks on the roots of quantum statistics firstly because students appreciate and are strongly motivated by looking back at the history of a given field of research and secondly because the spirit permeating this book has been deeply influenced by meetings and discussions with several pioneers of quantum statistics over the past few decades

Introduction To Quantum Statistical Mechanics Nickolai N Bogolubov Jr,N N Bogolubov,1982-01-01 This text represents the first translated edition of a special series of lectures delivered at the Physics Department of the Moscow State University It can serve as an introduction to a large group ranging from final year undergraduates to researchers and others requiring and understanding of Quantum Statistics and Second Quantization methods **Statistical mechanics** Richard P.

Feynman,1972 Quantum Statistical Mechanics Leo P. Kadanoff,2018-03-08 This book is a very early systematic treatment of the application of the field theoretical methods developed after the Second World War to the quantum mechanical many body problem at finite temperature It describes various techniques that remain basic tools of modern condensed matter physicists **Lectures on Quantum Statistics** Nikolaj N. Bogoljubov,1970 Basic Statistical Mechanics Peeter

Joot,2019-03 This book is based on my lecture notes for the Winter 2013 University of Toronto Basic Statistical Mechanics

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Quantum Statistical Mechanics In-Gee Kim, 2018-03-14 This book is a rewritten and annotated version of Leo P Kadanoff and Gordon Baym's lectures that were presented in the book Quantum Statistical Mechanics Green's Function Methods in Equilibrium and Nonequilibrium Problems The lectures were devoted to a discussion on the use of thermodynamic Green's functions in describing the properties of many particle systems The functions provided a method for discussing finite temperature problems with no more conceptual difficulty than ground state problems and the method was equally applicable to boson and fermion systems and equilibrium and nonequilibrium problems The lectures also explained nonequilibrium statistical physics in a systematic way and contained essential concepts on statistical physics in terms of Green's functions with sufficient and rigorous details In Gee Kim thoroughly studied the lectures during one of his research projects but found that the unspecialized method used to present them in the form of a book reduced their readability He started the tedious work of rewriting and annotating them to fully understand the formalism of nonequilibrium quantum statistical mechanics While doing so he realized they can be a useful resource for students of modern physics but will have to be upgraded to match pace with the evolved curricula Being aware that besides completing the course work and passing the relevant examinations it is necessary for graduate students of modern physics to make the knowledge of a topic concrete in their minds This book is a systematically prepared summary of those lectures and will be extremely useful for graduate students as well as senior researchers to settle down the key knowledge of the subject **Statistical Physics of Non Equilibrium**

Quantum Phenomena Yves Pomeau, Minh-Binh Tran, 2019-11-29 This book provides an introduction to topics in non equilibrium quantum statistical physics for both mathematicians and theoretical physicists The first part introduces a kinetic equation of Kolmogorov type which is needed to describe an isolated atom actually in experiments an ion under the effect of a classical pumping electromagnetic field which keeps the atom in its excited state's together with the random emission of fluorescence photons which put it back into its ground state The quantum kinetic theory developed in the second part is an extension of Boltzmann's classical non quantum kinetic theory of a dilute gas of quantum bosons This is the source of many interesting fundamental questions particularly because if the temperature is low enough such a gas is known to have at

equilibrium a transition the Bose Einstein transition where a finite portion of the particles stay in the quantum ground state
An important question considered is how a Bose gas condensate develops in time if its energy is initially low enough

Introduction to Quantum Statistical Mechanics Nikolaj N. Bogoljubov, 1982-01-01 **Introduction to Quantum Statistical Mechanics** Nikolai Nikolaevich Bogoliubov, 1982 Introduction to Quantum Statistical Mechanics (2nd Edition) , 1982 Lectures in Statistical Mechanics G.E. Uhlenbeck, G.W. Ford, 1963-01-01 **Introduction to Non-equilibrium Quantum Statistical Mechanics** Shigeji Fujita, 1966 *Mathematical Foundations of Quantum Statistical Mechanics* D.Y. Petrina, 2012-12-06 This monograph is devoted to quantum statistical mechanics It can be regarded as a continuation of the book Mathematical Foundations of Classical Statistical Mechanics Continuous Systems Gordon Breach SP 1989 written together with my colleagues V I Gerasimenko and P V Malyshev Taken together these books give a complete presentation of the statistical mechanics of continuous systems both quantum and classical from the common point of view Both books have similar contents They deal with the investigation of states of finite systems which are described by infinite sequences of statistical operators reduced density matrices or Green's functions in the quantum case and by infinite sequences of distribution functions in the classical case The equations of state and their solutions are the main object of investigation in these books For infinite systems the solutions of the equations of state are constructed by using the thermodynamic limit procedure according to which we first find a solution for a system of finitely many particles and then let the number of particles and the volume of a region tend to infinity keeping the density of particles constant However the style of presentation in these books is quite different

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