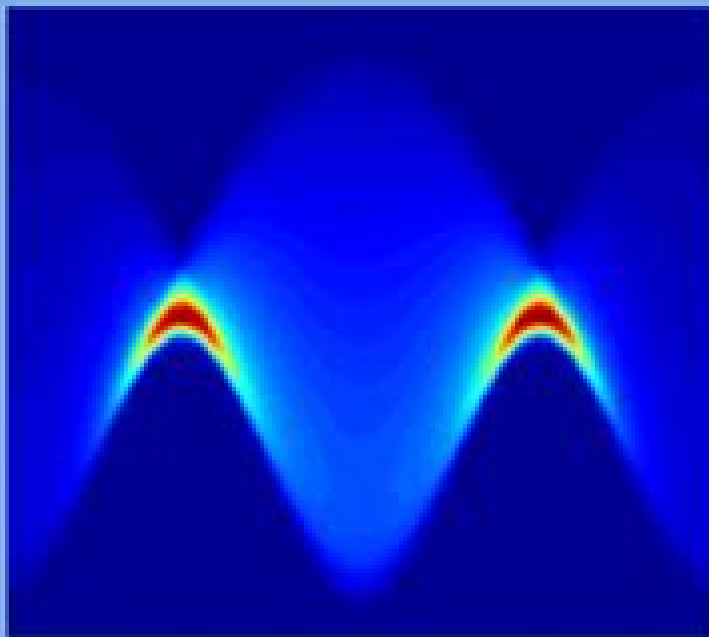
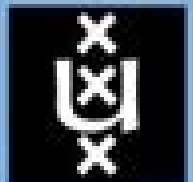


The Quantum many-body problem: Less is more and more is different.



Jorn Mossel

University of Amsterdam, ITFA



Supervisor: Jean-Sébastien Caux

Many Body Problem In Quantum Mechanics

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The Many-Body Problem in Quantum Mechanics Norman Henry March, W. H. Young, S. Sampanthar, 1995-01-01 Single volume account of methods used in dealing with the many body problem and the resulting physics Single particle approximations second quantization many body perturbation theory Fermi fluids superconductivity many boson systems more Each chapter contains well chosen problems Only prerequisite is basic understanding of elementary quantum mechanics 1967 edition

Problems and Solutions in Many-Body Quantum Theory Bruno Julia-Diaz, Arnau Rios Huguet, Héctor Briongos Merino, Javier Rozalén Sarmiento, 2025-10-16 This practical guidebook provides a comprehensive set of exercises which illustrate the most relevant concepts in a first course on quantum many body theory either as part of advanced undergraduate or graduate courses The problems come with detailed solutions which can easily be followed either by both professors and students Quantum many body theory is relevant in a number of fields from condensed matter to astrophysics The problems proposed in this book cover this variety of topics and are illustrated whenever possible with state of the art examples Key Features Provides a problems based approach to quantum many body theory unlike existing textbooks In depth solutions to problems are presented with the aim to maximize understanding and improve the teaching experience of the subject The multidisciplinary nature of quantum many body theory is explored in problems that deal with nuclear physics to ultracold atoms and astrophysics

On the Many-body Problem in Quantum Mechanics A. F. Tsander, 1953 *The Quantum Mechanics of Many-Body Systems* D.J. Thouless, 2013-12-03 Written by a co winner of the 2016 Nobel Prize in physics this treatment addresses problems and solutions related to nuclear and atomic physics electron theory of metals other areas Topics include variational methods perturbation theory statistical mechanics much more 1972 edition

Many-Body Problems and Quantum Field Theory Philippe Andre Martin, Francois Rothen, 2013-04-17 Many Body Problems and Quantum Field Theory introduces the concepts and methods of the topics on a level suitable for graduate students and researchers The formalism is developed in close conjunction with the description of a number of physical systems cohesion and dielectric properties of the electron gas superconductivity superfluidity nuclear matter and nucleon pairing matter and radiation interaction of fields by particle exchange and mass generation Emphasis is placed on analogies between the various systems rather than on advanced or specialized aspects with the purpose of illustrating common ideas within different domains of physics Starting from a basic knowledge of quantum mechanics and classical electromagnetism the exposition is self contained and explicitly details all steps of the derivations The new edition features a substantially new treatment of nucleon pairing

Quantum Theory of Many-Body Systems Alexandre Zagoskin, 2012-12-06 Intended for graduate students in physics and related fields this text is a self contained treatment of the physics of many body systems from the point of view of condensed matter The approach quite traditionally uses the mathematical formalism of quasiparticles and Green s functions In particular it covers all the important diagram techniques for normal and

superconducting systems including the zero temperature perturbation theory and the Matsubara Keldysh and Nambu Gor kov formalisms The aim is not to be exhaustive but to present just enough detail to enable the student to follow the current research literature or to apply the techniques to new problems Many of the examples are drawn from mesoscopic physics which deals with systems small enough that quantum coherence is maintained throughout their volume and which therefore provides an ideal testing ground for many body theories The book begins by introducing the Green s function for one particle systems using Feynman path integrals general perturbation theory and second quantization It then turns to the usual zero temperature formalism discussing the properties and physical meaning of the Green s function for many body systems and then developing the diagram techniques of perturbation theory The theory is extended to finite temperatures including a discussion of the Matsubara formalism as well as the Keldysh technique for essentially nonequilibrium systems The final chapter is devoted to applications of the techniques to superconductivity including discussions of the superconducting phase transition elementary excitations transport Andreev reflections and Josephson junctions Problems at the end of each chapter help to guide learning an to *The Nuclear Many-Body Problem* Peter Ring, Peter Schuck, 2004-03-25 Study Edition

Many-body Theory Exposed! Willem Hendrik Dickhoff, Dimitri Van Neck, 2005 The coverage proceeds in a systematic way from elementary concepts such as second quantization and mean field properties to a more advanced but self contained presentation of the physics of atoms molecules nuclei nuclear and neutron matter electron gas quantum liquids atomic Bose Einstein and fermion condensates and pairing correlations in finite and infinite systems BOOK JACKET **Beautiful Models** Bill Sutherland, 2004 Key Features An original book not just a collection of reprints by an expert and in many cases the originator in the field Although most of the important results are derived the book also discusses in depth the motivation and meaning of these results The intrinsic beauty of these models and their solution is emphasized throughout the text in part by unique full color figures Readership Advanced undergraduates and graduate students in physics non experts interested in exactly solved quantum many body systems **The many-body problem in quantum mechanics** S. Sampanthar, 1967 **Quantum Field Theory and the Many-body Problem** Theodore David Schultz, 1987 **Many-Body**

Schrödinger Equation Hiroshi Isozaki, 2023-08-28 Spectral properties for Schrödinger operators are a major concern in quantum mechanics both in physics and in mathematics For the few particle systems we now have sufficient knowledge for two body systems although much less is known about N body systems The asymptotic completeness of time dependent wave operators was proved in the 1980s and was a landmark in the study of the N body problem However many problems are left open for the stationary N particle equation Due to the recent rapid development of computer power it is now possible to compute the three body scattering problem numerically in which the stationary formulation of scattering is used This means that the stationary theory for N body Schrödinger operators remains an important problem of quantum mechanics It is stressed here that for the three body problem we have a satisfactory stationary theory This book is devoted to the

mathematical aspects of the N body problem from both the time dependent and stationary viewpoints The main themes are 1 The Mourre theory for the resolvent of self adjoint operators 2 Two body Schrödinger operators Time dependent approach and stationary approach 3 Time dependent approach to N body Schrödinger operators 4 Eigenfunction expansion theory for three body Schrödinger operators Compared with existing books for the many body problem the salient feature of this book consists in the stationary scattering theory 4 The eigenfunction expansion theorem is the physical basis of Schrödinger operators Recently it proved to be the basis of inverse problems of quantum scattering This book provides necessary background information to understand the physical and mathematical basis of Schrödinger operators and standard knowledge for future development

The Quantum Mechanics of Many-body Systems D. J. Thouless, 1964 ~**The many body problem in quantum mechanics** Norman H. March, William H. Young, Sangarapillai Sampanthar, 1967

Density Functional Theory Reinier M. Dreizler, Eberhard K.U. Gross, 2012-12-06 Density Functional Theory is a rapidly developing branch of many particle physics that has found applications in atomic molecular solid state and nuclear physics This book describes the conceptual framework of density functional theory and discusses in detail the derivation of explicit functionals from first principles as well as their application to Coulomb systems Both non relativistic and relativistic systems are treated The connection of density functional theory with other many body methods is highlighted The presentation is self contained the book is thus well suited for a graduate course on density functional theory

Many-body Theory Exposed!: Propagator Description Of Quantum Mechanics In Many-body Systems (Third Edition) Willem Hendrik Dickhoff, Dimitri V Y Van Neck, 2025-09-26 This book develops an approach to the quantum mechanics of identical particles that is relevant for many fields of physics Based on the Green's function method it provides a unifying perspective not readily available in other approaches Unlike many other books it contains a wealth of valuable experimental data in particular results from direct knockout reactions directly related to the single particle propagator in many body theory The comparison with data is incorporated from the start making the abstract concept of propagators vivid and accessible Results of numerical calculations using propagators or Green's functions are also included The material has been thoroughly tested in the classroom and the introductory chapters provide a seamless connection with a one year graduate course in quantum mechanics While the majority of books on many body theory deal with the subject from the viewpoint of condensed matter physics this book emphasizes finite systems as well and should be of considerable interest to researchers in nuclear atomic and molecular physics A unified treatment of many different many body systems is presented using the approach of self consistent Green's functions An extensive presentation of finite temperature propagators is included which is unique to this method In the third edition a new chapter covers the recent developments to extract the self energy from experimental data obtained for nuclei referred to as the dispersive optical model This approach allows to generate predictions for hard to measure quantities like neutron distributions Another new chapter describes the self energy through a Faddeev summation

of particle particle and particle hole propagators thereby leading to state of the art results for atoms molecules and nuclei Other recent updates are contained in the third edition as well The coverage proceeds systematically from elementary concepts such as second quantization and mean field properties to a more advanced but self contained presentation of the physics of atoms molecules nuclei nuclear and neutron matter electron gas quantum liquids atomic Bose Einstein and fermion condensates and pairing correlations in finite and infinite systems including finite temperature

Many-body Problems and Quantum Field Theory, 2002 The book gives an introduction to the concepts and methods of many body problems and quantum fields for graduate students and researchers The formalism is developed in close conjunction with the description of a number of physical systems cohesion and dielectric properties of the electron gas superconductivity superfluidity nuclear matter and nucleon pairing matter and radiation interaction of fields by particle exchange and mass generation Emphasis is put on analogies between the various systems rather than on advanced or specialized aspects with the purpose of illustrating common ideas in different domains of physics The exposition is self contained and displays in a coherent way all details of derivations starting from a basic knowledge of quantum mechanics and classical electromagnetism

Fundamentals of Many-body Physics Wolfgang Nolting, 2009-03-02 The goal of the present course on Fundamentals of Theoretical Physics is to be a direct accompaniment to the lower division study of physics and it aims at providing the physical tools in the most straightforward and compact form as needed by the students in order to master theoretically more complex topics and problems in advanced studies and in research The presentation is thus intentionally designed to be sufficiently detailed and self contained sometimes admittedly at the cost of a certain elegance to permit individual study without reference to the secondary literature This volume deals with the quantum theory of many body systems Building upon a basic knowledge of quantum mechanics and of statistical physics modern techniques for the description of interacting many particle systems are developed and applied to various real problems mainly from the area of solid state physics A thorough revision should guarantee that the reader can access the relevant research literature without experiencing major problems in terms of the concepts and vocabulary techniques and deductive methods found there The world which surrounds us consists of very many particles interacting with one another and their description requires in principle the solution of a corresponding number of coupled quantum mechanical equations of motion Schrodinger equations which however is possible only in exceptional cases in a mathematically strict sense The concepts of elementary quantum mechanics and quantum statistics are therefore not directly applicable in the form in which we have thus far encountered them They require an extension and restructuring which is termed many body theory

The Many-body Problem in Quantum Mechanics March, Norman Henry March, William H. Young, S. Sampanthar, 1967

Classical Analogies in the Solution of Quantum Many-Body Problems Aydın Cem Keser, 2018-11-07 This book addresses problems in three main developments in modern condensed matter physics namely topological superconductivity many body localization and strongly

interacting condensates superfluids by employing fruitful analogies from classical mechanics This strategy has led to tangible results firstly in superconducting nanowires the density of states a smoking gun for the long sought Majorana zero mode is calculated effortlessly by mapping the problem to a textbook level classical point particle problem Secondly in localization theory even the simplest toy models that exhibit many body localization are mathematically cumbersome and results rely on simulations that are limited by computational power In this book an alternative viewpoint is developed by describing many body localization in terms of quantum rotors that have incommensurate rotation frequencies an exactly solvable system Finally the fluctuations in a strongly interacting Bose condensate and superfluid a notoriously difficult system to analyze from first principles are shown to mimic stochastic fluctuations of space time due to quantum fields This analogy not only allows for the computation of physical properties of the fluctuations in an elegant way it sheds light on the nature of space time The book will be a valuable contribution for its unifying style that illuminates conceptually challenging developments in condensed matter physics and its use of elegant mathematical models in addition to producing new and concrete results

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