

Relativistic Quantum Theory

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E. M. Lifshitz and L. P. Pitaevskii

Institute of Physical Problems, USSR Academy of Sciences



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Relativistic Quantum Theory Part 1

L D Landau, E.M. Lifshitz



Relativistic Quantum Theory Part 1:

Relativistic Quantum Theory Vladimir Borisovich Berestetskii, Evgenii Mikhailovich Lifshitz, Lev Petrovich Pitaevskii, 1971 Quantum Mechanics L D Landau, E.M. Lifshitz, 1981-12-18 This edition has been completely revised to include some 20% of new material Important recent developments such as the theory of Regge poles are now included Many problems with solutions have been added to those already contained in the book **Relativistic Quantum Theory of Atoms and Molecules** Ian P Grant, 2007-04-15 This book is intended for physicists and chemists who need to understand the theory of atomic and molecular structure and processes and who wish to apply the theory to practical problems As far as practicable the book provides a self contained account of the theory of relativistic atomic and molecular structure based on the accepted formalism of bound state Quantum Electrodynamics The author was elected a Fellow of the Royal Society of London in 1992 **Relativistic Quantum Mechanics and Field Theory** Franz Gross, 2008-07-11 An accessible comprehensive reference to modern quantum mechanics and field theory In surveying available books on advanced quantum mechanics and field theory Franz Gross determined that while established books were outdated newer titles tended to focus on recent developments and disregard the basics Relativistic Quantum Mechanics and Field Theory fills this striking gap in the field With a strong emphasis on applications to practical problems as well as calculations Dr Gross provides complete up to date coverage of both elementary and advanced topics essential for a well rounded understanding of the field Developing the material at a level accessible even to newcomers to quantum mechanics the book begins with topics that every physicist should know quantization of the electromagnetic field relativistic one body wave equations and the theoretical explanation of atomic decay Subsequent chapters prepare readers for advanced work covering such major topics as gauge theories path integral techniques spontaneous symmetry breaking and an introduction to QCD chiral symmetry and the Standard Model A special chapter is devoted to relativistic bound state wave equations an important topic that is often overlooked in other books Clear and concise throughout Relativistic Quantum Mechanics and Field Theory boasts examples from atomic and nuclear physics as well as particle physics and includes appendices with background material It is an essential reference for anyone working in quantum mechanics today *Relativistic Quantum Physics* Tommy Ohlsson, 2011-09-22 Quantum physics and special relativity theory were two of the greatest breakthroughs in physics during the twentieth century and contributed to paradigm shifts in physics This book combines these two discoveries to provide a complete description of the fundamentals of relativistic quantum physics guiding the reader effortlessly from relativistic quantum mechanics to basic quantum field theory The book gives a thorough and detailed treatment of the subject beginning with the classification of particles the Klein Gordon equation and the Dirac equation It then moves on to the canonical quantization procedure of the Klein Gordon Dirac and electromagnetic fields Classical Yang Mills theory the LSZ formalism perturbation theory elementary processes in QED are introduced and regularization renormalization and radiative corrections are explored With exercises scattered through

the text and problems at the end of most chapters the book is ideal for advanced undergraduate and graduate students in theoretical physics

Philosophy of Physics Tim Maudlin, 2019-03-19 A sophisticated and original introduction to the philosophy of quantum mechanics from one of the world's leading philosophers of physics In this book Tim Maudlin one of the world's leading philosophers of physics offers a sophisticated original introduction to the philosophy of quantum mechanics The briefest clearest and most refined account of his influential approach to the subject the book will be invaluable to all students of philosophy and physics Quantum mechanics holds a unique place in the history of physics It has produced the most accurate predictions of any scientific theory but more astonishing there has never been any agreement about what the theory implies about physical reality Maudlin argues that the very term quantum theory is a misnomer A proper physical theory should clearly describe what is there and what it does yet standard textbooks present quantum mechanics as a predictive recipe in search of a physical theory In contrast Maudlin explores three proper theories that recover the quantum predictions the indeterministic wavefunction collapse theory of Ghirardi Rimini and Weber the deterministic particle theory of deBroglie and Bohm and the conceptually challenging Many Worlds theory of Everett Each offers a radically different proposal for the nature of physical reality but Maudlin shows that none of them are what they are generally taken to be

Relativistic Quantum Mechanics And Introduction To Quantum Field Theory Anton Z Capri, 2002-11-12 This invaluable textbook is divided into two parts The first part includes a detailed discussion on the discrete transformations for the Dirac equation as well as on the central force problem for the Dirac equation In the second part the external field problem is examined pair production and vacuum polarization leading to charge renormalization are treated in detail Relativistic Quantum Mechanics and Introduction to Quantum Field Theory has arisen from a graduate course which the author taught for several years at the University of Alberta to students interested in particle physics and field theory

Relativistic Quantum Mechanics Armin Wachter, 2010-09-29 Which problems do arise within relativistic enhancements of the Schrödinger theory especially if one adheres to the usual one particle interpretation To what extent can these problems be overcome What is the physical necessity of quantum field theories In many textbooks only insufficient answers to these fundamental questions are provided by treating the relativistic quantum mechanical one particle concept very superficially and instead introducing field quantization as soon as possible By contrast this book emphasizes particularly this point of view relativistic quantum mechanics in the narrow sense it extensively discusses the relativistic one particle view and reveals its problems and limitations therefore illustrating the necessity of quantized fields in a physically comprehensible way The first two chapters contain a detailed presentation and comparison of the Klein Gordon and Dirac theory always with a view to the non relativistic theory In the third chapter we consider relativistic scattering processes and develop the Feynman rules from propagator techniques This is where the indispensability of quantum field theory reasoning becomes apparent and basic quantum field theory concepts are introduced This textbook addresses undergraduate and

graduate Physics students who are interested in a clearly arranged and structured presentation of relativistic quantum mechanics in the narrow sense and its connection to quantum field theories Each section contains a short summary and exercises with solutions A mathematical appendix rounds out this excellent textbook on relativistic quantum mechanics

Mechanics L. D. Landau, E. M. Lifshitz, 1976-01-15 Pergamon international library of science technology engineering and social studies

Relativistic Quantum Mechanics of Leptons and Fields W. T. Grandy, 1991 The material contained in this work concerns relativistic quantum mechanics and as such pertains to classical fields On the one hand it is meant to serve as a text on the subject a desire stemming from the author's fruitless searches for an adequate up to date reference when lecturing on these topics At times the supplementary material was found to exceed by far that in the assigned text On the other hand there is some flavor of a monograph to what follows most particularly in the later chapters for a major goal is to demonstrate just how far we can advance our understanding of the behavior of stable particles and their interactions without introducing quantized fields Those wishing to describe the world in this way may view the result as a point of departure despite the fact that their wish remains unfulfilled Confirmed quantum field theorists however will doubtless view it as a summary of just why they feel compelled to quantize the fields Approximately half the book is devoted to the single particle Dirac equation and its solutions A great deal of detail is provided in this respect and the discussion is reasonably comprehensive The Dirac equation is extraordinarily important in its own right particularly as a basis for quantum electrodynamics QED and is thus worthy of extensive study

Relativistic Quantum Dynamics Eugene Stefanovich, 2018-11-05 In this third volume of three quantum electrodynamics is formulated in the language of physical dressed particles A theory where charged particles interact via instantaneous action at a distance forces is constructed without need for renormalization This theory describes electromagnetic phenomena in terms of directly interacting charges but in full accord with fundamental principles of relativity and causality Contents Three ways to look at QFT Dressing What are advantages of dressed Hamiltonian Coulomb potential and beyond Decays RQD in higher orders Classical electrodynamics Experimental support of RQD Particles and relativity Special theory of relativity Unitary dressing transformation Integral for decay law Coulomb scattering integral in fourth order Relativistic invariance of Coulomb Darwin Breit electrodynamics

Relativistic Quantum Mechanics and Introduction to Field Theory Francisco J. Yndurain, 2011-10-02 This advanced textbook supplies graduate students with a primer in quantum theory A variety of processes are discussed with concepts such as potentials classical current distributions prescribed external fields dealt with in the framework of relativistic quantum mechanics Then in an introduction to field theory the author emphasizes the deduction of the said potentials or currents A modern presentation of the subject together with many exercises unique in its unusual underlying concept of combining relativistic quantum mechanics with basic quantum field theory

Relativistic Quantum Mechanics Lawrence P. Horwitz, 2015-08-04 This book describes a relativistic quantum theory developed by the

author starting from the E C G Stueckelberg approach proposed in the early 40s In this framework a universal invariant evolution parameter corresponding to the time originally postulated by Newton is introduced to describe dynamical evolution This theory is able to provide solutions for some of the fundamental problems encountered in early attempts to construct a relativistic quantum theory A relativistically covariant construction is given for which particle spins and angular momenta can be combined through the usual rotation group Clebsch Gordan coefficients Solutions are defined for both the classical and quantum two body bound state and scattering problems The recently developed quantum Lax Phillips theory of semi group evolution of resonant states is described The experiment of Lindner and coworkers on interference in time is discussed showing how the property of coherence in time provides a simple understanding of the results The full gauge invariance of the Stueckelberg Schroedinger equation results in a 5D generalization of the usual gauge theories A description of this structure and some of its consequences for both Abelian and non Abelian fields are discussed A review of the basic foundations of relativistic classical and quantum statistical mechanics is also given The Bekenstein Sanders construction for imbedding Milgrom s theory of modified spacetime structure into general relativity as an alternative to dark matter is also studied

Quantum Electrodynamics V B Berestetskii, L. P. Pitaevskii, E.M. Lifshitz, 2012-12-02 Several significant additions have been made to the second edition including the operator method of calculating the bremsstrahlung cross section the calculation of the probabilities of photon induced pair production and photon decay in a magnetic field the asymptotic form of the scattering amplitudes at high energies inelastic scattering of electrons by hadrons and the transformation of electron positron pairs into hadrons

Relativistic Quantum Fields Charles Nash, 2010-06-17 This graduate level text contains statistical and quantitative techniques for performing calculations in quantum field theory Topics include renormalization functional differentiation and integration and the Schwinger Dyson equations dimensional regularization the gauge and infrared properties of quantum electrodynamics and asymptotic behavior and renormalization group methods Reference features include an appendix bibliography and index 1978 edition

Relativistic Quantum Mechanics Hartmut Pilkuhn, 2005-08-03 In this book quantum mechanics is developed from the outset on a relativistic basis using the superposition principle Lorentz invariance and gauge invariance Nonrelativistic quantum mechanics as well as classical relativistic mechanics appear as special cases They are the sources of familiar names such as orbital angular momentum spin orbit coupling and magnetic moment for operators of the relativistic quantum formalism The theory of binaries in terms of differential equations is treated for the first time in this book These have the mathematical structure of the corresponding one body equations Klein Gordon for two spinless particles Dirac for two spinor particles with a relativistically reduced mass They allow the calculation of radiative corrections via the vector potential operator This second edition of the successful textbook adds various new sections on relativistic quantum chemistry and on the relativistic treatment of the proton in hydrogen Others chapters have been expanded e g on hyperfine interactions or carefully revisited

Quantum

Mechanics Lukong Cornelius Fai, 2022-06-01 This book presents an accessible treatment of non relativistic and relativistic quantum mechanics It is an ideal textbook for undergraduate and graduate physics students and is also useful to researchers in theoretical physics quantum mechanics condensed matter mathematical physics quantum chemistry and electronics This student friendly and self contained textbook covers the typical topics in a core undergraduate program as well as more advanced graduate level topics with an elegant mathematical rigor contemporary style and rejuvenated approach It balances theory and worked examples which reinforces readers understanding of fundamental concepts The analytical methods employed in this book describe physical situations with mathematical rigor and in depth clarity emphasizing the essential understanding of the subject matter without need for prior knowledge of classical mechanics electromagnetic theory atomic structure or differential equations Key Features Remains accessible but incorporates a rigorous updated mathematical treatment Laid out in a student friendly structure Balances theory with its application through examples Lukong Cornelius Fai is a professor of theoretical physics at the Department of Physics Faculty of Sciences University of Dschang Cameroon He is Head of Condensed Matter and Nanomaterials as well as the Mesoscopic and Multilayer Structures Laboratory He was formerly a senior associate at the Abdus Salam International Centre for Theoretical Physics ICTP Italy He holds a Master of Science in Physics and Mathematics 1991 as well as a Doctor of Science in Physics and Mathematics 1997 from Moldova State University He is the author of over 170 scientific publications and five textbooks *Relativistic Quantum Chemistry* Markus Reiher, Alexander Wolf, 2009-05-13 Written by two researchers in the field this book is a reference to explain the principles and fundamentals in a self contained complete and consistent way Much attention is paid to the didactical value with the chapters interconnected and based on each other From the contents Fundamentals Relativistic Theory of a Free Electron Dirac 1 2s Equation Dirac Theory of a Single Electron in a Central Potential Many Electron Theory I Quantum Electrodynamics Many Electron Theory II Dirac Hartree Fock Theory Elimination of the Small Component Unitary Transformation Schemes Relativistic Density Functional Theory Physical Observables and Molecular Properties Interpretive Approach to Relativistic Quantum Chemistry From beginning to end the authors deduce all the concepts and rules such that readers are able to understand the fundamentals and principles behind the theory Essential reading for theoretical chemists and physicists Non-relativistic Quantum Theory Kai Shue Lam, 2009 This textbook is mainly for physics students at the advanced undergraduate and beginning graduate levels especially those with a theoretical inclination Its chief purpose is to give a systematic introduction to the main ingredients of the fundamentals of quantum theory with special emphasis on those aspects of group theory spacetime and permutational symmetries and group representations and differential geometry geometrical phases topological quantum numbers and Chern Simons Theory that are relevant in modern developments of the subject It will provide students with an overview of key elements of the theory as well as a solid preparation in calculational techniques **Relativistic Quantum Theory** Evgeniĭ Mikhaĭlovich Lifshits, 1971

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