

CLASSICAL AND QUANTUM MECHANICS

RELATIVISTIC QUANTUM MECHANICS AND FIELD THEORY OF ARBITRARY SPIN



VOLODIMIR SIMULIK

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Relativistic Quantum Mechanics And Field Theory

Anton Z Capri



Relativistic Quantum Mechanics And Field Theory:

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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

Relativistic Quantum Mechanics and Introduction to Field Theory Francisco J. Yndurain, 2012-12-06 A fully relativistic treatment of the quantum mechanics of particles requires the introduction of quantum field theory that is to say the quantum mechanics of systems with an infinite number of degrees of freedom This is because the relativistic equivalence of mass and energy plus the quantum possibility of fluctuations imply the existence of real or virtual creation and annihilation of particles in unlimited numbers In spite of this there exist processes and energy ranges where a treatment in terms of ordinary

quantum mechanical tools is appropriate and the approximation of neglecting the full field theoretic description is justified. Thus one may use concepts such as potentials and wave equations for classical fields and classical currents etc. The present text is devoted precisely to the systematic discussion of these topics to which we have added a general description of one and two particle relativistic states in particular for scattering processes. A field theoretic approach may not be entirely avoided and in fact an introduction to quantum field theory is presented in this text. However field theory is not the object per se of this book apart from a few examples. Field theory is mainly employed to establish the connection with equivalent potentials to study the classical limit of the emission of radiation or to discuss the propagation of a fermion in classical electromagnetic fields.

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 Mechanics Luciano Maiani, Omar Benhar, 2015-11-18. Written by two of the most prominent leaders in particle physics, *Relativistic Quantum Mechanics: An Introduction to Relativistic Quantum Fields* provides a classroom-tested introduction to the formal and conceptual foundations of quantum field theory. Designed for advanced undergraduate and graduate level physics students, the text only requires p

Relativistic Quantum Mechanics And Quantum Fields Ta-yu Wu, Pauchy W-y Hwang, 1991-03-06. A sequel to the well-received book *Quantum Mechanics* by T. Y. Wu, this book carries on where the earlier volume ends. This present volume follows the generally pedagogic style of *Quantum Mechanics*. The scope ranges from relativistic quantum mechanics to an introduction to quantum field theory with quantum electrodynamics as the basic example and ends with an exposition of important issues related to the standard model. The book presents the subject in basic and easy-to-grasp notions which will enhance the purpose of this book as a useful textbook in the area of relativistic quantum mechanics and quantum

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Varadarajan Devanathan, 2011 **Foundations Of Quantum Field Theory** Klaus D Rothe, 2020-09-03 Based on a two semester course held at the University of Heidelberg Germany this book provides an adequate resource for the lecturer and the student The contents are primarily aimed at graduate students who wish to learn about the fundamental concepts behind constructing a Relativistic Quantum Theory of particles and fields So it provides a comprehensive foundation for the extension to Quantum Chromodynamics and Weak Interactions that are not included in this book **The Theory of**

Photons and Electrons Josef M. Jauch, F. Rohrlich, 2012-12-06 Since the discovery of the corpuscular nature of radiation by Planck more than fifty years ago the quantum theory of radiation has gone through many stages of development which seemed to alternate between spectacular success and hopeless frustration The most recent phase started in 1947 with the discovery of the electromagnetic level shifts and the realization that the existing theory when properly interpreted was perfectly adequate to explain these effects to an apparently unlimited degree of accuracy This phase has now reached a certain conclusion for the first time in the checkered history of this field of research it has become possible to give a unified and consistent presentation of radiation theory in full conformity with the principles of relativity and quantum mechanics To this task the present book is devoted The plan for a book of this type was conceived during the year 1951 while the first named author J M J held a Fulbright research scholarship at Cambridge University During this year of freedom from teaching and other duties he had the opportunity of conferring with physicists in many different countries on the recent developments in radiation theory The comments seemed to be almost unanimous that a book on quantum electrodynamics at the present time would be of inestimable value to physicists in many parts of the world However it was not until the spring of 1952 that work on the book began in earnest *Quantum Field Theory in a Semiotic Perspective* Hans Günter Dosch, Volkhard F.

Müller, Norman Sieroka, 2006-03-30 Viewing physical theories as symbolic constructions came to the fore in the middle of the nineteenth century with the emancipation of the classical theory of the electromagnetic field from mechanics most notably this happened through the work of Helmholtz Hertz Poincaré and later Weyl The epistemological problems that nourished this

development are today highlighted within quantum field theory The present essay starts off with a concise and non technical outline of the firmly based aspects of relativistic quantum field theory i e the very successful description of subnuclear phenomena The particular methods by which these different aspects have to be accessed then get described as distinct facets of quantum field theory The authors show how these different facets vary with respect to the relation between quantum fields and associated particles Thus by emphasising the respective role of various basic concepts involved the authors claim that only a very general epistemic approach can properly account for this diversity an account they trace back to the philosophical writings of the aforementioned physicists and mathematicians Finally what they call their semiotic perspective on quantum field theory gets related to recent discussions within the philosophy of science and turns out to act as a counterbalance to for instance structural realism

Relativistic Quantum Mechanics and Field Theory of Arbitrary Spin

Volodimir Simulik, 2020-04-21

Foundations of the relativistic quantum mechanics and field theory of arbitrary spin are presented New relativistic wave equations without redundant components for the particle antiparticle doublets of arbitrary spin are considered The comparison with known arbitrary spin equations of Bhabha Bargman Wigner and with Pauli Fierz Rarita Schwinger equations for the spin $s = 3/2$ demonstrates the advantages of the presented approach The special procedure of synthesis of higher spin relativistic wave equations is suggested New equations are considered on three levels of i relativistic canonical quantum mechanics ii canonical Foldy Wouthuysen type field theory and iii manifestly covariant field theory The derivation of field equations based on the start from the relativistic canonical quantum mechanics is given The corresponding transition operator which is the extended Foldy Wouthuysen transformation is suggested and described This model of relativistic quantum mechanics is described here on the level of von Neumann's consideration of non relativistic case The Lagrange approach for the spinor field in the Foldy Wouthuysen representation is analyzed The proof of the Fermi Bose duality property of a few main equations of field theory which before were known to have only single Fermi or single Bose property is given Hidden Bose properties symmetry solutions and conservation laws of the Dirac equation are proved Both cases of non zero and zero mass are considered New useful mathematical objects which are the pure matrix representations of the 64 dimensional Clifford and 28 dimensional $SO(8)$ algebras over the field of real numbers are put into consideration The application of such algebras to the Dirac and Dirac like equations properties analysis is demonstrated Fermi and Bose $SO(4)$ symmetries of the relativistic hydrogen atom are found New symmetries and solutions of the Maxwell equations are considered The Maxwell equations in the form having maximal symmetry are suggested and described The application of such field strength equations to the atomic microworld phenomena is demonstrated On the basis of such Maxwell system the relativistic hydrogen atom spectrum and quantum properties of this atom are described The Sommerfeld Dirac fine structure formula Planck constant and the Bohr postulates are derived in the frameworks of classical electrodynamics The limits and borders of classical physics applications in inneratomic microworld are discussed In order to

determine the place of our approach among other investigations the 26 variants of the Dirac equation derivation are considered

Relativistic Quantum Mechanics Luciano Maiani, Omar Benhar, 2024 Written by two of the most prominent leaders in particle physics Relativistic Quantum Mechanics An Introduction to Relativistic Quantum Fields provides a classroom tested introduction to the formal and conceptual foundations of quantum field theory Designed for advanced undergraduate and graduate level physics students the text only requires previous courses in classical mechanics relativity and quantum mechanics The introductory chapters of the book summarise the theory of special relativity and its application to the classical description of the motion of a free particle and a field The authors then explain the quantum formulation of field theory through the simple example of a scalar field described by the Klein Gordon equation as well as its extension to the case of spin particles described by the Dirac equation They also present the elements necessary for constructing the foundational theories of the standard model of electroweak interactions namely quantum electrodynamics and the Fermi theory of neutron beta decay Many applications to quantum electrodynamics and weak interaction processes are thoroughly analysed The book also explores the timely topic of neutrino oscillations Logically progressing from the fundamentals to recent discoveries this textbook provides students with the essential foundation to study more advanced theoretical physics and elementary particle physics It will help them understand the theory of electroweak interactions and gauge theories

Relativistic Quantum Field Theory Michael Thomas Strickland, 2019 Volume 1 of this three part series introduces the fundamental concepts of quantum field theory using the formalism of canonical quantization Starting with a brief review of classical field theory as a jumping off point for the quantization of classical fields thereby promoting them to proper quantum fields formalism for real and complex scalar field theories is then presented followed by fermion field quantization gauge field quantization toy models of the nuclear interaction and finally the full Lagrangian for QED and its renormalization

Story Of Light, A: A Short Introduction To Quantum Field Theory Of Quarks And Leptons Moo-young Han, 2004-12-23 This book presents the essential aspects of relativistic quantum field theory with minimal use of mathematics It covers the development of quantum field theory from the original quantization of electromagnetic field to the gauge field theory of interactions among quarks and leptons Aimed at both scientists and non specialists it requires only some rudimentary knowledge of the Lagrangian and Hamiltonian formulation of Newtonian mechanics and a basic understanding of the special theory of relativity and quantum mechanics

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

From Special Relativity to Feynman Diagrams Riccardo D'Auria, Mario Trigiante, 2015-10-06 This book now in its second edition provides an introductory course on theoretical particle physics with the aim of filling the gap that exists between basic courses of classical and quantum mechanics and advanced courses of relativistic quantum mechanics and field theory After a concise but comprehensive introduction to special relativity key aspects of relativistic dynamics are covered and some elementary concepts of general relativity introduced Basics of the theory of groups and Lie algebras are explained with discussion of the group of rotations and the Lorentz and Poincar groups In addition a concise account of representation theory and of tensor calculus is provided Quantization of the electromagnetic field in the radiation range is fully discussed The essentials of the Lagrangian and Hamiltonian formalisms are reviewed proceeding from systems with a finite number of degrees of freedom and extending the discussion to fields The final four chapters are devoted to development of the quantum field theory ultimately introducing the graphical description of interaction processes by means of Feynman diagrams The book will be of value for students seeking to understand the main concepts that form the basis of contemporary theoretical particle physics and also for engineers and lecturers An Appendix on some special relativity effects is added

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