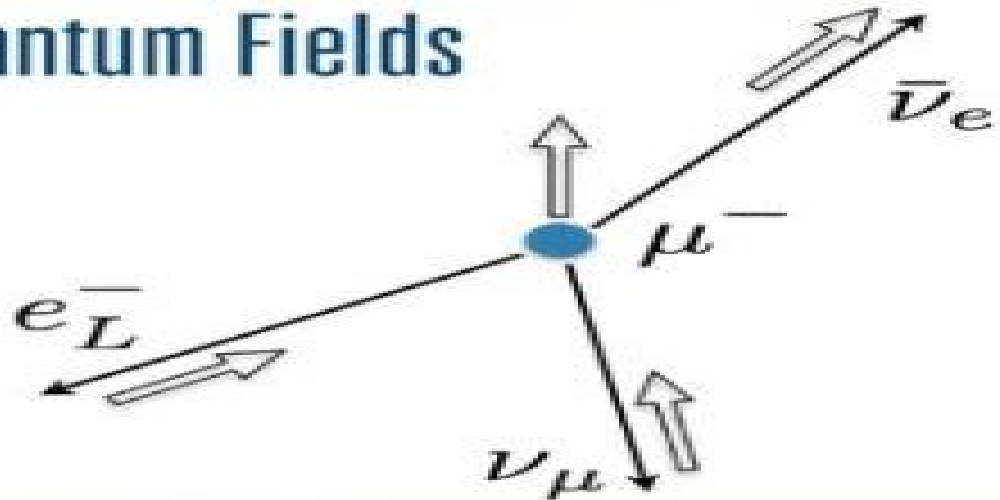


# RELATIVISTIC QUANTUM MECHANICS

An Introduction to Relativistic  
Quantum Fields



Luciano Maiani  
Omar Benhar



CRC Press  
Taylor & Francis Group

# Relativistic Quantum Fields

**Michael T. Strickland, Strickland  
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## Relativistic Quantum Fields:

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Relativistic Quantum Fields James D. Bjorken, Sidney D. Drell, 1965 *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

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**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 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

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*Relativistic Quantum Field Theory, Volume 2* Michael Strickland, 2019-11-11 Volume 2 of this three part series presents the quantization of classical field theory using the path integral formalism For this volume the target audience is students who wish to learn about relativistic quantum field theory applied to particle physics however it is still very accessible and useful for students of condensed matter This volume begins with the introduction of the path integral formalism for non relativistic quantum mechanics and then using this as a basis extends the formalism to quantum fields with an infinite number of degrees of freedom Dr Strickland then discusses how to quantize gauge fields using the Fadeev Popov method and fermionic fields using Grassman algebra He then presents the path integral formulation of quantum chromodynamics and its renormalization Finally he discusses the role played by topological solutions in non abelian gauge theories

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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* James D. Bjorken, Sidney David Drell, 1964 In this text the authors develop a propagator theory of Dirac particles photons and Klein Gordon mesons and perform a series of calculations designed to illustrate various useful techniques and concepts in electromagnetic weak and strong interactions these include defining and implementing the renormalization program and evaluating effects of radiative corrections such as the Lamb shift in low order calculations The necessary background for the book is provided by a course in nonrelativistic quantum mechanics at the general level of Schiff's text QUANTUM MECHANICS

Relativistic Quantum Field Theory, Volume 3 Michael Strickland, 2019-11-15 Volume 3 of this three part series presents more advanced topics and applications of relativistic quantum field theory The application of quantum chromodynamics to high energy particle scattering is discussed with concrete examples for how to compute QCD scattering cross sections Experimental evidence for the existence of quarks and gluons is then presented both within the context of the naive quark model and beyond Dr Strickland then reviews our current understanding of the weak interaction the unified electroweak theory and the Brout Higgs Englert mechanism for the generation of gauge boson masses The last two chapters contain a self contained introduction to finite temperature quantum field theory with concrete examples focusing on the high temperature thermodynamics of scalar field theories QED and QCD

*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

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**Mechanics. Wave Equations** Walter Greiner, 2013-03-09 Relativistic Quantum Mechanics Wave Equations concentrates mainly on the wave equations for spin 0 and spin 1/2 particles Chapter 1 deals with the Klein Gordon equation and its properties and applications The chapters that follow introduce the Dirac equation investigate its covariance properties and present various approaches to obtaining solutions Numerous applications are discussed in detail including the two center Dirac equation hole theory CPT symmetry Klein's paradox and relativistic symmetry principles Chapter 15 presents the relativistic wave equations for higher spin Proca Rarita Schwinger and Bargmann Wigner The extensive presentation of the mathematical tools and the 62 worked examples and problems make this a unique text for an advanced quantum mechanics course This third edition has been slightly revised to bring the text up to date **Relativistic Quantum Field Theory, Volume 3** Michael T. Strickland, Strickland Michael, 2019 Relativistic Quantum Mechanics & Quantum Fields Ta-you Wu, 1989 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** Armin Wächter, 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

*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

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