

O. Steinmann

**Perturbative
Quantum
Electrodynamics
and Axiomatic
Field Theory**



Springer

Perturbative Quantum Electrodynamics And Axiomatic Field Theory

Howard J. Carmichael



Perturbative Quantum Electrodynamics And Axiomatic Field Theory:

Perturbative Quantum Electrodynamics and Axiomatic Field Theory Othmar Steinmann, 2013-04-17 This book is concerned with relativistic quantum field theory especially QED its most successful example It is set in the no man s land between the math ematically rigorous but numerically barren general field theory of the math ematical physicist and the computationally fertile but mathematically some times adventurous field theory of the more phenomenologically inclined and it aims at demonstrating that closer contact between these two disparate cultures may be of benefit to both Perturbative QED serves as an exam ple It is shown how the rules of perturbative quantum field theory one of the major tools of phenomenology can be derived from well defined general assumptions in a mathematically clean way in particular not using any reg ularizations Special emphasis is placed on giving the infrared problem its full due This leads among other things to an unorthodox method based on the local observables approach to field theory of describing particles and their reactions The resulting scattering formalism is immediately applica ble to the infraparticle situation of QED by directly yielding expressions for the observable inclusive cross sections dispensing with the notion of an S matrix Interestingly enough these expressions differ somewhat from those of the conventional approach This point will hopefully give rise to interesting and fruitful discussions I have been working on these sorts of problems on and off for a long time

Quantum Field Theory II:

Quantum Electrodynamics Eberhard Zeidler, 2008-09-03 And God said Let there be light and there was light Genesis 1 3 Light is not only the basis of our biological existence but also an essential source of our knowledge about the physical laws of nature ranging from the seventeenth century geometrical optics up to the twentieth century theory of general relativity and quantum electrodynamics Folklore Don t give us numbers give us insight A contemporary natural scientist to a mathematician The present book is the second volume of a comprehensive introduction to themathematicalandphysicalaspectsofmodernquantum eldtheorywhich comprehends the following six volumes Volume I Basics in Mathematics and Physics Volume II Quantum Electrodynamics Volume III Gauge Theory Volume IV Quantum Mathematics Volume V The Physics of the Standard Model Volume VI Quantum Gravitation and String Theory It is our goal to build a bridge between mathematicians and physicists based on the challenging question about the fundamental forces in macrocosmos the universe and microcosmos the world of elementary particles The six volumes address a broad audience of readers including both und graduate and graduate students as well as experienced scientists who want to become familiar with quantum eld theory which is a fascinating topic in modern mathematics and physics

From Classical Field Theory to Perturbative Quantum Field Theory Michael Dütsch, 2019-03-18 This book develops a novel approach to perturbative quantum field theory starting with a perturbative formulation of classical field theory quantization is achieved by means of deformation quantization of the underlying free theory and by applying the principle that as much of the classical structure as possible should be maintained The resulting formulation of perturbative quantum field theory is a version of the Epstein

Glaser renormalization that is conceptually clear mathematically rigorous and pragmatically useful for physicists The connection to traditional formulations of perturbative quantum field theory is also elaborated on and the formalism is illustrated in a wealth of examples and exercises

An Introduction to Non-Perturbative Foundations of Quantum Field Theory Franco Strocchi, 2013-02-14 Quantum Field Theory QFT has proved to be the most useful strategy for the description of elementary particle interactions and as such is regarded as a fundamental part of modern theoretical physics In most presentations the emphasis is on the effectiveness of the theory in producing experimentally testable predictions which at present essentially means Perturbative QFT However after more than fifty years of QFT we still are in the embarrassing situation of not knowing a single non trivial even non realistic model of QFT in 3+1 dimensions allowing a non perturbative control As a reaction to these consistency problems one may take the position that they are related to our ignorance of the physics of small distances and that QFT is only an effective theory so that radically new ideas are needed for a consistent quantum theory of relativistic interactions in 3+1 dimensions The book starts by discussing the conflict between locality or hyperbolicity and positivity of the energy for relativistic wave equations which marks the origin of quantum field theory and the mathematical problems of the perturbative expansion canonical quantization interaction picture non Fock representation asymptotic convergence of the series etc The general physical principles of positivity of the energy Poincare covariance and locality provide a substitute for canonical quantization qualify the non perturbative foundation and lead to very relevant results like the Spin statistics theorem TCP symmetry a substitute for canonical quantization non canonical behaviour the euclidean formulation at the basis of the functional integral approach the non perturbative definition of the S matrix LSZ Haag Ruelle Buchholz theory A characteristic feature of gauge field theories is Gauss law constraint It is responsible for the conflict between locality of the charged fields and positivity it yields the superselection of the unbroken gauge charges provides a non perturbative explanation of the Higgs mechanism in the local gauges implies the infraparticle structure of the charged particles in QED and the breaking of the Lorentz group in the charged sectors A non perturbative proof of the Higgs mechanism is discussed in the Coulomb gauge the vector bosons corresponding to the broken generators are massive and their two point function dominates the Goldstone spectrum thus excluding the occurrence of massless Goldstone bosons The solution of the U(1) problem in QCD the theta vacuum structure and the inevitable breaking of the chiral symmetry in each theta sector are derived solely from the topology of the gauge group without relying on the semiclassical instanton approximation

Analysis On Fock Spaces And Mathematical Theory Of Quantum Fields: An Introduction To Mathematical Analysis Of Quantum Fields (Second Edition) Asao Arai, 2024-09-03 This book provides a comprehensive introduction to Fock space theory and its applications to mathematical quantum field theory The first half of the book Part I is devoted to detailed descriptions of analysis on abstract Fock spaces full Fock space boson Fock space fermion Fock space and boson fermion Fock space It includes the mathematics of second quantization representation theory

of canonical commutation and anti commutation relations Bogoliubov transformations infinite dimensional Dirac operators and supersymmetric quantum field in an abstract form The second half of the book Part II covers applications of the mathematical theories in Part I to quantum field theory Four kinds of free quantum fields are constructed and detailed analyses are made A simple interacting quantum field model called the van Hove Miyatake model is fully analyzed in an abstract form Moreover a list of interacting quantum field models is presented and an introductory description to each model is given In this second edition a new chapter Chapter 15 is added to describe a mathematical theory of spontaneous symmetry breaking which is an important subject in modern quantum physics This book is a good introductory text for graduate students in mathematics or physics who are interested in the mathematical aspects of quantum field theory It is also well suited for self study providing readers a firm foundation of knowledge and mathematical techniques for more advanced books and current research articles in the field of mathematical analysis on quantum fields Numerous problems are added to aid readers in developing a deeper understanding of the field

Theory of Interacting Quantum Fields Alexei L. Rebenko, 2012-07-04 This monograph is devoted to the systematic presentation of foundations of the quantum field theory Unlike numerous monographs devoted to this topic a wide range of problems covered in this book are accompanied by their sufficiently clear interpretations and applications An important significant feature of this monograph is the desire of the author to present mathematical problems of the quantum field theory with regard to new methods of the constructive and Euclidean field theory that appeared in the last thirty years of the 20th century and are based on the rigorous mathematical apparatus of functional analysis the theory of operators and the theory of generalized functions The monograph is useful for students post graduate students and young scientists who desire to understand not only the formality of construction of the quantum field theory but also its essence and connection with the classical mechanics relativistic classical field theory quantum mechanics group theory and the theory of path integral formalism

Quantum Field Theory on Curved Spacetimes Christian Bär, Klaus Fredenhagen, 2009-09-18 After some decades of work a satisfactory theory of quantum gravity is still not available moreover there are indications that the original field theoretical approach may be better suited than originally expected There to first approximation one is left with the problem of quantum field theory on Lorentzian manifolds Surprisingly this seemingly modest approach leads to far reaching conceptual and mathematical problems and to spectacular predictions the most famous one being the Hawking radiation of black holes Ingredients of this approach are the formulation of quantum physics in terms of C^* algebras the geometry of Lorentzian manifolds in particular their causal structure and linear hyperbolic differential equations where the well posedness of the Cauchy problem plays a distinguished role as well as more recently the insights from suitable concepts such as microlocal analysis This primer is an outgrowth of a compact course given by the editors and contributing authors to an audience of advanced graduate students and young researchers in the field and assumes working knowledge of differential geometry and functional analysis on the part of the reader

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 *An Introduction to Riemann Surfaces, Algebraic Curves and Moduli Spaces* Martin Schlichenmaier, 2010-02-11 This book gives an introduction to modern geometry Starting from an elementary level the author develops deep geometrical concepts that play an important role in contemporary theoretical physics presenting various techniques and viewpoints along the way This second edition contains two additional more advanced geometric techniques the modern language and modern view of Algebraic Geometry and Mirror Symmetry **Quantum Probability and Spectral Analysis of Graphs** Akihito Hora, Nobuaki Obata, 2007-07-05 It is a great pleasure for me that the new Springer Quantum Probability Programme is opened by the present monograph of Akihito Hora and Nobuaki Obata In fact this book epitomizes several distinctive features of contemporary quantum probability First of all the use of specific quantum probabilistic techniques to bring original and quite non trivial contributions to problems with an old history and on which a huge literature exists both independent of quantum probability Second but not less important the ability to create several bridges among different branches of mathematics apparently far from one another such as the theory of orthogonal polynomials and graph theory Nevanlinna's theory and the theory of representations of the symmetric group Moreover the main topic of the present monograph the asymptotic behaviour of large graphs is acquiring a growing importance in a multiplicity of applications to several different fields from solid state physics to complex networks from biology to telecommunications and operation research to combinatorial optimization This creates a potential audience for the present book which goes far beyond the mathematicians and includes physicists engineers of several different branches as well as biologists and economists From the mathematical point of view the use of sophisticated analytical tools to draw conclusions on discrete structures such as graphs is particularly appealing The use of analysis the science of the continuum to discover non trivial properties of discrete structures has an established tradition in number theory but in graph theory it constitutes a relatively recent trend and there are few doubts that this trend will expand to an extent comparable to what we find in the theory of numbers Two main ideas of quantum probability form the unifying framework of the present book 1 The quantum decomposition of a classical random variable *Gauge*

Invariance and Weyl-polymer Quantization Franco Strocchi, 2015-11-12 The book gives an introduction to Weyl non regular quantization suitable for the description of physically interesting quantum systems where the traditional Dirac Heisenberg quantization is not applicable The latter implicitly assumes that the canonical variables describe observables entailing necessarily the regularity of their exponentials Weyl operators However in physically interesting cases typically in the presence of a gauge symmetry non observable canonical variables are introduced for the description of the states namely of the relevant representations of the observable algebra In general a gauge invariant ground state defines a non regular representation of the gauge dependent Weyl operators providing a mathematically consistent treatment of familiar quantum systems such as the electron in a periodic potential Bloch electron the Quantum Hall electron or the quantum particle on a circle where the gauge transformations are respectively the lattice translations the magnetic translations and the rotations of 2π Relevant examples are also provided by quantum gauge field theory models in particular by the temporal gauge of Quantum Electrodynamics avoiding the conflict between the Gauss law constraint and the Dirac Heisenberg canonical quantization The same applies to Quantum Chromodynamics where the non regular quantization of the temporal gauge provides a simple solution of the U(1) problem and a simple link between the vacuum structure and the topology of the gauge group Last but not least Weyl non regular quantization is briefly discussed from the perspective of the so called polymer representations proposed for Loop Quantum Gravity in connection with diffeomorphism invariant vacuum states

Quantum Field Theory I: Basics in Mathematics and Physics Eberhard Zeidler, 2007-04-18 This is the first volume of a modern introduction to quantum field theory which addresses both mathematicians and physicists at levels ranging from advanced undergraduate students to professional scientists The book bridges the acknowledged gap between the different languages used by mathematicians and physicists For students of mathematics the author shows that detailed knowledge of the physical background helps to motivate the mathematical subjects and to discover interesting interrelationships between quite different mathematical topics For students of physics fairly advanced mathematics is presented which goes beyond the usual curriculum in physics

Quantum Information Theory and Quantum Statistics Dénes Petz, 2007-10-20 This concise and readable book addresses primarily readers with a background in classical statistical physics and introduces quantum mechanical notions as required Conceived as a primer to bridge the gap between statistical physics and quantum information it emphasizes concepts and thorough discussions of the fundamental notions and prepares the reader for deeper studies not least through a selection of well chosen exercises

Aspects of Ergodic, Qualitative and Statistical Theory of Motion Giovanni Gallavotti, Federico Bonetto, Guido Gentile, 2013-03-09 Intended for beginners in ergodic theory this book addresses students as well as researchers in mathematical physics The main novelty is the systematic treatment of characteristic problems in ergodic theory by a unified method in terms of convergent power series and renormalization group methods in particular Basic concepts of ergodicity like Gibbs states are developed and applied to e.g. Arov systems or KAM

Theory Many examples illustrate the ideas and in addition a substantial number of interesting topics are treated in the form of guided problems

Approaches to Fundamental Physics Ion-Olimpiu Stamatescu, Erhard Seiler, 2007-09-28 This book represents in the first place the desire of the authors of the various contributions to enter a discussion about the research landscape of present day fundamental theoretical physics It documents their attempt out of their highly specialized scientific positions to find a way of communicating about methods achievements and promises of the different approaches which shape the development of this field It is therefore also an attempt to bring out the connections between these approaches and present them not as disjoint ventures but rather as facets of a common quest for understanding Whether in competition to each other or in collaboration the many fold ways of contemporary physics are characterized by a number of exciting findings and questions which appear more and more interrelated Moreover in the historical development of science the steadily arriving new empirical information partly supports partly contradicts the existing theories and partly brings forth unexpected results forcing a total reorientation upon us If we are lucky the beginning of this century may prove to be as grand as that of the last one It is not an easy task in a situation so much in movement and in which various approaches strive for completion to promote a constructive interaction between these and to achieve a level of mutual understanding on which such an interaction can be fruitful Nearly all of the authors contributing to this book have been participating in a working group dedicated exactly to this task this group met in many sessions over several years This book is to a large extent the result of these discussions

Statistical Methods in Quantum Optics 2 Howard J. Carmichael, 2009-04-25 Statistical Methods in Quantum Optics 2 Non Classical Fields continues the development of the methods used in quantum optics to treat open quantum systems and their fluctuations Its early chapters build upon the phase space methods introduced in the first volume Statistical Methods in Quantum Optics 1 Matter Equations and Fokker Planck Equations the difficulties these methods face in treating non classical light are exposed where the regime of large fluctuations failure of the system size expansion is shown to be particularly problematic Cavity QED is adopted as a natural vehicle for extending quantum noise theory into this regime In response to the issues raised the theory of quantum trajectories is presented as a universal approach to the treatment of fluctuations in open quantum systems This book presents its material at a level suitable for beginning researchers or students in an advanced course in quantum optics or a course in quantum mechanics or statistical physics that deals with open quantum systems The text is complemented by exercises and interspersed notes that point the reader to side issues or a deeper exploration of the material presented

The Statistical Mechanics of Financial Markets Johannes Voit, 2013-04-17 Provides an excellent introduction for physicists interested in the statistical properties of financial markets basic financial terms such as shorts limit orders puts calls and other terms are clearly defined an excellent starting point for the interested physicist PHYSICS TODAY This introductory treatment describes parallels between statistical physics and finance both long established and new research results on capital markets Forming the core of Voit's treatment are the

concepts of random walks scaling of data and risk control Voit discusses the underlying assumptions using empirical financial data and analogies to physical models such as fluid flows and turbulence He formulates theories of derivative pricing and risk control and shows how computer simulations of markets provide insights into price fluctuations and how crashes are modelled in ways analogous to phase transitions This corrected edition has been updated with several new and significant developments e g the dynamics of volatility smiles and implied volatility surfaces path integral approaches to option pricing a new simulation scheme for options multifractals the application of nonextensive statistical mechanics to financial markets and the minority game

High-Energy Particle Diffraction Vincenzo Barone, Enrico Predazzi, 2013-03-09 High energy diffraction has become a hot and fashionable subject in recent years due to the great interest triggered by the HERA and Tevatron data These data have helped to show the field from a different perspective paving the road to a hopefully more complete understanding than hitherto achieved The forthcoming data in the next few years from even higher energies LHC promise to sustain this interest for a long time We believe that it is therefore necessary to summarize the main developments which have marked the growth of high energy diffractive physics in recent decades and to assess the present state of the art This is the purpose of the present book which is especially aimed at the young researchers who are entering the field and want to get acquainted with the relevant results and the main theoretical techniques The new diffraction has started to bridge the gap between the hard and soft regimes of strong interactions A modern account of the subject in our opinion should reflect this situation covering both the traditional approaches to soft processes which are still alive and useful and the modern treatment of hard dynamics in the framework of perturbative QCD The book is divided into three parts The first part Chaps 1-3 contains some introductory material the systematics of diffractive processes some historical remarks the optical analogy the eikonal approximation of quantum mechanics and high energy kinematics In the second part Chaps

The Theory of Quark and Gluon Interactions Francisco J. Yndurain, 2007-06-21 F J Yndurain's book on Quantum Chromodynamics has become a classic among advanced textbooks First published in 1983 and translated into Russian in 1986 it now sees its fourth edition It addresses readers with basic knowledge of field theory and particle phenomenology The author presents the basic facts of quark and gluon physics in pedagogical form Theory is always confronted with experimental findings The reader will learn enough to be able to follow modern research articles This fourth edition presents a new section on heavy quark effective theories more material on lattice QCD and on chiral perturbation theory

Statistical Methods in Quantum Optics 1 Howard J. Carmichael, 2013-04-17 As a graduate student working in quantum optics I encountered the question that might be taken as the theme of this book The question definitely arose at that time though it was not yet very clearly defined there was simply some deep irritation caused by the work I was doing something quite fundamental I did not understand Of course so many things are not understood when one is a graduate student However my nagging question was not a technical issue not merely a mathematical concept that was difficult to grasp It was

a sense that certain elementary notions that are accepted as starting points for work in quantum optics somehow had no fundamental foundation no identifiable root My inclination was to mine physics vertically and here was a subject whose tunnels were dug horizontally There were branches certainly going up and going down Nonetheless something major in the downwards direction was missing at least in my understanding no doubt others understood the connections downwards very well In retrospect I can identify the irritation Quantum optics deals primarily with dynamics quantum dynamics and in doing so makes extensive use of words like quantum fluctuations and quantum noise The words seem harmless enough Surely the ideas behind them are quite clear after all quantum mechanics is a statistical theory and in its dynamical aspects it is therefore a theory of fluctuations But there was my problem Nothing in Schrodinger s equation fluctuates

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