

SELECTED TOPICS ON THE
GENERAL PROPERTIES OF
QUANTUM FIELD THEORY

LECTURE NOTES BY E. STROCCHI

Selected Topics On The General Properties Of Quantum Field Theory

F. Strocchi



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An Introduction to the Mathematical Structure of Quantum Mechanics F. Strocchi, 2008 Arising out of the need for Quantum Mechanics QM to be part of the common education of mathematics students this book formulates the mathematical structure of QM in terms of the C algebra of observables which is argued on the basis of the operational definition of measurements and the duality between states and observables

Trails in Modern Theoretical and Mathematical Physics Andrea Cintio, Alessandro Michelangeli, 2023-12-21 This book celebrates the life and work of the late Giovanni Morchio 1944 2021 It features scientific and anecdotal contributions written by his former colleagues co authors and students as well as senior scientists who were active witnesses to the dramatic advances in physics and in mathematics that took place during his 50 year long career The volume begins with a biographical introduction detailing Giovanni Morchio s life and his role as a physicist mathematician teacher and scientist The core of the book covers a vast spectrum of ideas reflecting Dr Morchio s scientific interests Each chapter develops a specific topic of modern research ranging from quantum mechanics and quantum field theory to additional themes such as the connection between general relativity and Newtonian gravitation Every contribution provides a historical retrospective a survey of advances an outlook of future perspectives and challenges and an updated bibliography The last part collects the authors recollections of their professional and personal interactions with Dr Morchio in recognition of his deep achievements his exceptional pedagogical qualities and his praiseworthy social and pro bono commitment Authored by physicists of international calibre covering a broad range of subjects the book will be a valuable reference for researchers and students of theoretical and mathematical physics

Quantum Gravity in Four Dimensions Giampiero Esposito, 2001 Main section headings Ideas and Problems in Quantum Gravity On Ellipticity and Quantum Gravity Non Local Boundary Data in Quantum Gravity Non Locality and

Ellipticity for Gauge Theories New Kernels in Quantum Gravity Quantum Gravity from First Principles Quantum Gravity and Spectral Geometry Bibliography Index White Noise Analysis And Quantum Information Luigi Accardi, Louis Hsiao Yun Chen, Takeyuki Hida, Masanori Ohya, Si Si, Noboru Watanabe, 2017-08-29 This volume is to pique the interest of many researchers in the fields of infinite dimensional analysis and quantum probability These fields have undergone increasingly significant developments and have found many new applications in particular to classical probability and to different branches of physics These fields are rather wide and are of a strongly interdisciplinary nature For such a purpose we strove to bridge among these interdisciplinary fields in our Workshop on IDAQP and their Applications that was held at the Institute for Mathematical Sciences National University of Singapore from 3-7 March 2014 Readers will find that this volume contains all the exciting contributions by well known researchers in search of new directions in these fields 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

Symmetry Breaking Franco Strocchi, 2021-01-27 The third edition of the by now classic reference on rigorous analysis of symmetry breaking in both classical and quantum field theories adds new topics of relevance in particular the effect of dynamical Coulomb delocalization by which boundary conditions give rise to volume effects and to energy mass gap in the Goldstone spectrum plasmon spectrum Anderson superconductivity Higgs phenomenon The book closes with a discussion of the physical meaning of global and local gauge symmetries and their breaking with attention to the effect of gauge group topology in QCD From the reviews of the first edition It is remarkable to see how much material can actually be presented in a rigorous way incidentally many of the results presented are due to Strocchi himself yet this is largely ignored the original heuristic derivations being as a rule more popular At each step he strongly emphasizes the physical meaning and motivation of the various notions introduced a book that fills a conspicuous gap in the literature and does it rather well It could also be a good basis for a graduate course in mathematical physics J P Antoine Physicalia 28 2 2006 Despite many accounts in popular textbooks and a widespread belief the phenomenon is rather subtle requires an infinite set of degrees of freedom and an advanced mathematical setting of the system under investigation The mathematically oriented graduate student will certainly benefit from this thorough rigorous and detailed investigation G Roepstorff Zentralblatt MATH Vol 1075 2006 From the reviews of the second edition This second edition of Strocchi's Symmetry Breaking presents a complete generalized and highly rigorous discussion of the subject based on a formal analysis of conditions necessary for the mechanism of spontaneous symmetry breaking to occur in classical systems as well as in quantum systems This book is specifically recommended for mathematical physicists interested in a deeper and rigorous understanding of the subject and it should be mandatory for researchers studying the mechanism of spontaneous symmetry breaking S Hajjawi Mathematical Reviews 2008

Scattering, Two-Volume Set E. R. Pike, Pierre C. Sabatier, 2001-10-09 Scattering is the collision of two objects that results in a change of trajectory and energy For example in particle physics such as electrons photons or neutrons are scattered off of a target specimen resulting in a different energy and direction In the field of electromagnetism scattering is the random diffusion of electromagnetic radiation from air masses is an aid in the long range sending of radio signals over geographic obstacles such as mountains This type of scattering applied to the field of acoustics is the spreading of sound in many directions due to irregularities in the transmission medium Volume I of Scattering will be devoted to basic theoretical ideas approximation methods numerical techniques and mathematical modeling Volume II will be concerned with basic experimental techniques technological practices and comparisons with relevant theoretical work including seismology medical applications meteorological phenomena and astronomy This reference will be used by researchers and graduate students in physics applied physics biophysics chemical physics medical physics acoustics geosciences optics mathematics and engineering This is the first encyclopedic range work

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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

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