Geometry, Topology and Quantum Field Theory

by

Pratul Bandyopadhyay
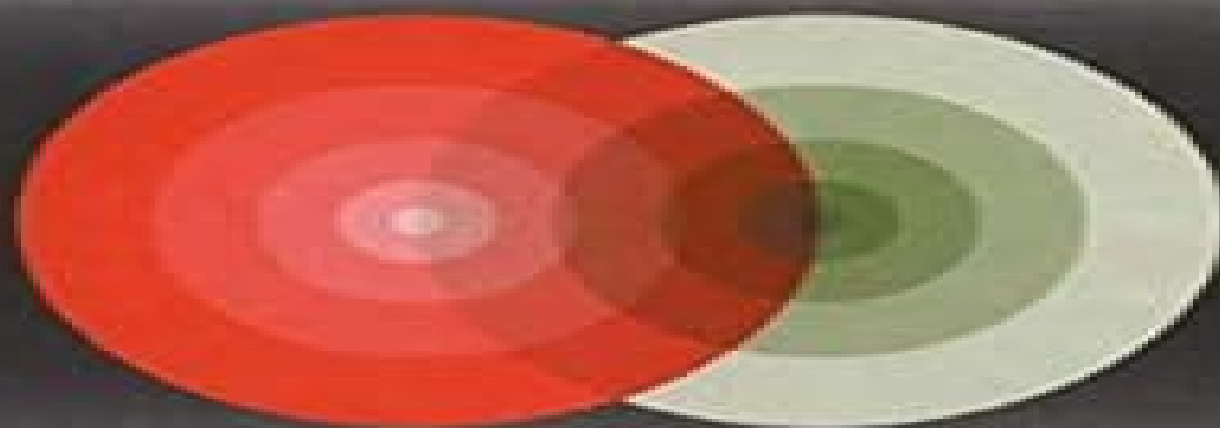
Fundamental Theories of Physics

Geometry Topology And Quantum Field Theory Fundamental Theories Of Physics

Vladislav Capek,Daniel P. Sheehan

Geometry Topology And Quantum Field Theory Fundamental Theories Of Physics:

Geometry, Topology and Quantum Field Theory P. Bandyopadhyay,2013-03-09 This is a monograph on geometrical and topological features which arise in quantum field theory It is well known that when a chiral fermion interacts with a gauge field we have chiral anomaly which corresponds to the fact that divergence of the axial vector current does not vanish It is observed that this is related to certain topological features associated with the fermion and leads to the realization of the topological origin of fermion number as well as the Berry phase The role of gauge fields in the quantization procedure has its implications in these topological features of a fermion and helps us to consider a massive fermion as a soliton skyrrnion In this formalism chiral anomaly is found to be responsible for mass generation This has its relevance in electroweak theory where it is observed that weak interaction gauge bosons attain mass topologically The geometrical feature of a skyrmion also helps us to realize the internal symmetry of hadrons from reflection group Finally it has been shown that noncommutative geometry where the space time manifold is taken to be X M x Zz has its relevance in the description of a massive 4 fermion as a skyrmion when the discrete space is considered as the internal space and the symmetry breaking leads to chiral anomaly In chap l preliminary mathematical formulations related to the spinor structure have been discussed In chap **Ettore Majorana: Notes on Theoretical Physics** Salvatore Esposito,Ettore Majorana Jr.,Alwyn van der Merwe,E. Recami,2013-03-09 HISTORICAL PRELUDE Ettore Majorana s fame solidly rests on testimonies like the following from the evocative pen of Giuseppe Cocconi At the request of Edoardo Amaldi he wrote from CERN July 18 1965 In January 1938 after having just graduated I was invited essen tially by you to come to the Institute of Physics at the University in Rome for six months as a teaching assistant and once I was there I would have the good fortune of joining Fermi Bernardini who had been given a chair at Camerino a few months earlier and Ageno he too a new graduate in the research of the products of disintegration of L mesons at that time called mesotrons or yukons which are produced by cosmic rays It was actually while I was staying with Fermi in the small laboratory on the second floor absorbed in our work with Fermi working with a piece of Wilson s chamber which would help to reveal mesons at the end of their range on a lathe and me constructing a jalopy for the illumination of the chamber using the flash produced by the explosion of an aluminum ribbon short circuited on a battery that Ettore Majorana came in search of Fermi I was introduced to him and we exchanged few words A dark face And that was it

Quantum Measure Theory J. Hamhalter,2013-03-14 This book is the first systematic treatment of measures on projection lattices of von Neumann algebras It presents significant recent results in this field One part is inspired by the Generalized Gleason Theorem on extending measures on the projection lattices of von Neumann algebras to linear functionals Applications of this principle to various problems in quantum physics are considered hidden variable problem Wigner type theorems decoherence functional etc Another part of the monograph deals with a fascinating interplay of algebraic properties of the projection lattice with the continuity of measures the analysis of Jauch Piron states independence

conditions in quantum field theory etc These results have no direct analogy in the standard measure and probability theory On the theoretical physics side they are instrumental in recovering technical assumptions of the axiomatics of quantum theories only by considering algebraic properties of finitely additive measures states on quantum propositions **Topology and Quantum Theory in Interaction** David Ayala,Daniel S. Freed,Ryan E. Grady,2018-10-25 This volume contains the proceedings of the NSF CBMS Regional Conference on Topological and Geometric Methods in QFT held from July 31 August 4 2017 at Montana State University in Bozeman Montana In recent decades there has been a movement to axiomatize quantum field theory into a mathematical structure In a different direction one can ask to test these axiom systems against physics Can they be used to rederive known facts about quantum theories or better yet be the framework in which to solve open problems Recently Freed and Hopkins have provided a solution to a classification problem in condensed matter theory which is ultimately based on the field theory axioms of Graeme Segal Papers contained in this volume amplify various aspects of the Freed Hopkins program develop some category theory which lies behind the cobordism hypothesis the major structure theorem for topological field theories and relate to Costello s approach to perturbative quantum field theory Two papers on the latter use this framework to recover fundamental results about some physical theories two dimensional sigma models and the bosonic string Perhaps it is surprising that such sparse axiom systems encode enough structure to prove important results in physics These successes can be taken as encouragement that the axiom systems are at least on the right track toward articulating what a quantum field theory is The Many Faces of Maxwell, Dirac and Einstein Equations Waldyr A. Rodrigues, Jr,Edmundo Capelas de Oliveira,2016-04-26 This book is an exposition of the algebra and calculus of differential forms of the Clifford and Spin Clifford bundle formalisms and of vistas to a formulation of important concepts of differential geometry indispensable for an in depth understanding of space time physics The formalism discloses the hidden geometrical nature of spinor fields Maxwell Dirac and Einstein fields are shown to have representatives by objects of the same mathematical nature namely sections of an appropriate Clifford bundle This approach reveals unity in diversity and suggests relationships that are hidden in the standard formalisms and opens new paths for research This thoroughly revised second edition also adds three new chapters on the Clifford bundle approach to the Riemannian or semi Riemannian differential geometry of branes on Komar currents in the context of the General Relativity theory and an analysis of the similarities and main differences between Dirac Majorana and ELKO spinor fields The exercises with solutions the comprehensive list of mathematical symbols and the list of acronyms and abbreviations are provided for self study for students as well as for classes From the reviews of the first edition The text is written in a very readable manner and is complemented with plenty of worked out exercises which are in the style of extended examples their book could also serve as a textbook for graduate students in physics or mathematics Alberto Molgado Mathematical Reviews 2008 k **Deformed Spacetime** Fabio Cardone,Roberto Mignani,2007-09-04 This volume provides a detailed discussion of the mathematical aspects and physical

applications of a new geometrical structure of space time based on a generalization deformation of the usual Minkowski space as supposed to be endowed with a metric whose coefficients depend on the energy This new five dimensional scheme Deformed Relativity in Five Dimensions DR5 represents a true generalization of the usual Kaluza Klein KK formalism

Introduction to Soliton Theory: Applications to Mechanics Ligia Munteanu,Stefania Donescu,2006-07-06 This monograph is planned to provide the application of the soliton theory to solve certain practical problems selected from the fields of solid mechanics fluid mechanics and biomechanics The work is based mainly on the authors research carried out at their home institutes and on some specified significant results existing in the published literature The methodology to study a given evolution equation is to seek the waves of permanent form to test whether it possesses any symmetry properties and whether it is stable and solitonic in nature Students of physics applied mathematics and engineering are usually exposed to various branches of nonlinear mechanics especially to the soliton theory The soliton is regarded as an entity a quasi particle which conserves its character and interacts with the surroundings and other solitons as a particle It is related to a strange phenomenon which consists in the propagation of certain waves without attenuation in dissipative media This phenomenon has been known for about 200 years it was described for example by the Joule Verne s novel Les histoires de Jean Marie Cabidoulin d Hetzel but its detailed quantitative description became possible only in the last 30 years due to the exceptional development of computers The discovery of the physical soliton is attributed to John Scott Russell In 1834 Russell was observing a boat being drawn along a narrow channel by a pair of horses   Challenges to The Second Law of Thermodynamics Vladislav Capek,Daniel P. Sheehan,2005-02-15 The second law of thermodynamics is considered one of the central laws of science engineering and technology For over a century it has been assumed to be inviolable by the scientific community Over the last 10 20 years however more than two dozen challenges to it have appeared in the physical literature more than during any other period in its 150 year history The number and variety of these represent a cogent threat to its absolute status This is the first book to document and critique these modern challenges Written by two leading exponents of this rapidly emerging field it covers the theoretical and experimental aspects of principal challenges In addition unresolved foundational issues concerning entropy and the second law are explored This book should be of interest to anyone whose work or research is touched by the second law   Reading Bohr: Physics and Philosophy Arkady Plotnitsky,2006-11-15 Reading Bohr Physics and Philosophy offers a new perspective on Niels Bohr s interpretation of quantum mechanics as complementarity and on the relationships between physics and philosophy in Bohr s work which has had momentous significance for our understanding of quantum theory and of the nature of knowledge in general Philosophically the book reassesses Bohr s place in the Western philosophical tradition from Kant and Hegel on Physically it reconsiders the main issues at stake in the Bohr Einstein confrontation and in the ongoing debates concerning quantum physics It also devotes greater attention than in most commentaries on Bohr to the key developments and transformations of his thinking

concerning complementarity Most significant among them were those that occurred first under the impact of Bohr s exchanges with Einstein and second under the impact of developments in quantum theory itself both quantum mechanics and quantum field theory The importance of quantum field theory for Bohr s thinking has not been adequately addressed in the literature on Bohr to the considerable detriment to our understanding of the history of quantum physics Filling this lacuna is one of the main contributions of the book which also enables us to show why quantum field theory compels us to move beyond Bohr without however simply leaving him behind **Quantum Mechanics** Ajoy Ghatak,S. Lokanathan,2004-03-31 An understanding of quantum mechanics is vital to all students of physics chemistry and electrical engineering but requires a lot of mathematical concepts the details of which are given with great clarity in this book Various concepts have been derived from first principles so it can also be used for self study The chapters on the JWKB approximation time independent perturbation theory and effects of magnetic field stand out for their clarity and easy to understand mathematics Two complete chapters on the linear harmonic oscillator provide a very detailed discussion of one of the most fundamental problems in quantum mechanics Operator algebra is used to show the ease with which one can calculate the harmonic oscillator wave functions and study the evolution of the coherent state Similarly three chapters on angular momentum give a detailed account of this important problem Perhaps the most attractive feature of the book is the excellent balance between theory and applications and the large number of applications in such diverse areas as astrophysics nuclear physics atomic and molecular spectroscopy solid state physics and quantum well structures **Precisely Predictable Dirac Observables** Heinz Otto Cordes,2007-01-10 In this book we are attempting to o er a modi cation of Dirac s theory of the electron we believe to be free of the usual paradoxa so as perhaps to be acceptable as a clean quantum mechanical treatment While it seems to be a fact that the classical mechanics from Newton to E stein s theory of gravitation o ers a very rigorous concept free of contradictions and able to accurately predict motion of a mass point quantum mechanics even in its simplest cases does not seem to have this kind of clarity Almost it seems that everyone of its fathers had his own wave equation For the quantum mechanical 1 body problem with vanishing potentials let 1 us focus on 3 di erent wave equations I The Klein Gordon equation 3 2 2 2 2 1 t 1 0 Laplacian x j 1 This equation may be written as 2 t i 1 t i 1 0 Hereitmaybenotedthattheoperator1 hasawellde nedpositive square root as unbounded self adjoint positive operator of the Hilbert 2 3 spaceH L R

Mathematical Foundations of Quantum Field Theory and Perturbative String Theory Hisham Sati,Urs Schreiber,2011-12-07 Conceptual progress in fundamental theoretical physics is linked with the search for the suitable mathematical structures that model the physical systems Quantum field theory QFT has proven to be a rich source of ideas for mathematics for a long time However fundamental questions such as What is a QFT did not have satisfactory mathematical answers especially on spaces with arbitrary topology fundamental for the formulation of perturbative string theory This book contains a collection of papers highlighting the mathematical foundations of QFT and its relevance to

perturbative string theory as well as the deep techniques that have been emerging in the last few years The papers are organized under three main chapters Foundations for Quantum Field Theory Quantization of Field Theories and Two Dimensional Quantum Field Theories An introduction written by the editors provides an overview of the main underlying themes that bind together the papers in the volume **The Universe of Fluctuations** B. G. Sidharth,2006-03-30 The Universe of Fluctuations The Architecture of Spacetime and the Universe is a path breaking work which proposes solutions to the impasse and crisis facing fundamental physics and cosmology It describes a cosmological model based on fuzzy spacetime that has correctly predicted a dark energy driven acceleration of our expanding universe with a small cosmological constant at a time when the popular belief was quite the contrary It describes how the Universe is made up of an underpinning of Planck oscillators in a Quantum Vacuum This leads to amongst other things a characterization of gravitation as being distributional over the entire Universe thereby providing an answer to a puzzle brought to light by Weinberg years ago and since overlooked There is also a simple formula for the mass spectrum of all known elementary particles based on QCD dynamics Many other interesting ramifications and experimental tests for the future are also discussed This apart there is a brief survey of some of the existing theories The book is accessible to junior and senior researchers in High Energy Physics and Cosmology as well as the serious graduate student in Physics Vavilov-Cherenkov and Synchrotron Radiation G.N. Afanasiev,2004-09-07 The theory of the Vavilov Cherenkov radiation observed by Cherenkov in 1934 was created by Tamm Frank and Ginsburg who associated the observed blue light with the uniform charge motion of a charge at a velocity greater than the velocity of light in the medium On the other hand Vavilov Cherenkov s teacher attributed the observed blue light to the deceleration of electrons This has given rise to the appearance of papers in which the radiation of a charge uniformly moving in a finite space interval was related to the Bremsstrahlung arising at the end points of the motion interval This monograph is intended for students of the third year and higher for postgraduates for professional scientists both experimentalists and theoreticians dealing with Vavilov Cherenkov and synchrotron radiation An acquaintance with the three volumes of the Landau and Lifshitz course Quantum Mechanics Classical Field Theory and Macroscopic Electrodynamics is sufficient for understanding the text Factorization Method in Quantum Mechanics Shi-Hai Dong,2007-04-01 This book introduces the factorization method in quantum mechanics at an advanced level with the aim of putting mathematical and physical concepts and techniques like the factorization method Lie algebras matrix elements and quantum control at the reader s disposal For this purpose the text provides a comprehensive description of the factorization method and its wide applications in quantum mechanics which complements the traditional coverage found in quantum mechanics textbooks *The Universal Coefficient Theorem and Quantum Field Theory* Andrei-Tudor Patrascu,2016-09-23 This thesis describes a new connection between algebraic geometry topology number theory and quantum field theory It offers a pedagogical introduction to algebraic topology allowing readers to rapidly develop basic skills and it also presents original ideas to inspire

new research in the quest for dualities Its ambitious goal is to construct a method based on the universal coefficient theorem for identifying new dualities connecting different domains of quantum field theory This thesis opens a new area of research in the domain of non perturbative physics one in which the use of different coefficient structures in co homology may lead to previously unknown connections between different regimes of quantum field theories The origin of dualities is an issue in fundamental physics that continues to puzzle the research community with unexpected results like the AdS CFT duality or the ER EPR conjecture This thesis analyzes these observations from a novel and original point of view mainly based on a fundamental connection between number theory and topology Beyond its scientific qualities it also offers a pedagogical introduction to advanced mathematics and its connection with physics This makes it a valuable resource for students in mathematical physics and researchers wanting to gain insights into co homology theories with coefficients or the way in which Grothendieck s work may be connected with physics   *Complex Spaces in Finsler, Lagrange and Hamilton Geometries* Gheorghe Munteanu,2012-11-03 From a historical point of view the theory we submit to the present study has its origins in the famous dissertation of P Finsler from 1918 Fi In a the classical notion also conventional classification Finsler geometry has besides a number of generalizations which use the same work technique and which can be considered self geometries Lagrange and Hamilton spaces Finsler geometry had a period of incubation long enough so that few math ematicians E Cartan L Berwald S S Chem H Rund had the patience to penetrate into a universe of tensors which made them compare it to a jungle To aU of us who study nowadays Finsler geometry it is obvious that the qualitative leap was made in the 1970 s by the crystallization of the nonlinear connection notion a notion which is almost as old as Finsler space SZ4 and by work skills into its adapted frame fields The results obtained by M Matsumoto coUected later in 1986 in a monograph Ma3 aroused interest not only in Japan but also in other countries such as Romania Hungary Canada and the USA where schools of Finsler geometry are founded and are presently widely recognized   **Cosmological Pattern of Microphysics in the Inflationary Universe** Maxim Y. Khlopov,Sergei G. Rubin,2013-03-20 Modern cosmology is a quickly developing eld of research New technical devices and tools supply the community with new experimental data measured with high accuracy The self consistent explanation of these data needs t oretical models that are based on hypothetical predictions of particle theory In their turn such predictions imply cosmology for their probe Speci c st ies of the cosmological consequences of particle theory linking them to their observable signatures are actual This boiling kettle of theoretical research and experimental efforts produces ideas that will be preserved for following generations The aim of this book is to acquaint the reader with some of these ideas fering nontrivial ways to probe the physical basis of modern cosmology An extensive review of the newest ideas in modern cosmology e g related with the development of the M brane theory lies beyond the scope of our book which is aimed at providing a rmly established system of probes for these ideas linking their predictions to their possible experimental test We use the framework of in ationary paradigm to reveal the phenomena that can shed light on the

physical origin of the observed Universe of its matter content and large scale structure The crucial role of quantum uctuations in creation of our Universe and in possible features re ecting cosmological impact of microphysics is discussed These features are shown to be accessible to perimental test in the near future **Information Dynamics in Cognitive, Psychological, Social, and Anomalous Phenomena** Andreĭ I U r'evich Khrennikov,2004-02-29 This book develops a new physical mathematical model for the functioning of the human brain based not on the modern Newton Einstein view of physical reality but on information reality The work is devoted to the physical mathematical modeling of conscious cognitive phenomena The most important distinguishing feature of the theory presented here is a new model of mental space the so called p adic hierarchic tree space and the development of mental analogs of classical and quantum mechanics Mental processes and more general information processes are handled as a kind of new physical processes In particular the procedure of information quantization and an information analog of Bohmian mechanics are developed Here mind is a singularity in the mental pilot wave Applications to neurophysiology localization of mental function and brain ablations and psychology in particular Freud s psychoanalysis are considered Audience This book will be of interest to researchers working on physical mathematical cognitive neurophysical psychological and philosophical aspects of human consciousness

Relativity and the Dimensionality of the World Vesselin Petkov,2007-10-08 All physicists would agree that one of the most fundamental problems of the 21st century physics is the dimensionality of the world In the four dimensional world of Minkowski or Minkowski spacetime the most challenging problem is the nature of the temporal dimension In Minkowski spacetime it is merely one of the four dimensions which means that it is entirely given like the other three spacial dimensions If the temporal dimension were not given in its entirety and only one constantly changing moment of it existed Minkowski spacetime would be reduced to the ordinary three dimensional space But if the physical world represented by Minkowski spacetime is indeed four dimensional with time being the fourth dimension then such a world is drastically different from its image based on our perceptions Minkowski four dimensional world is a block Universe a frozen world in which nothing happens since all moments of time are given at once which means that physical bodies are four dimensional worldtubes containing the whole histories in time of the three dimensional bodies of our everyday experience The implications of a real Minkowski world for physics itself and especially for our world view are enormous The main focus of this volume is the question is spacetime nothing more than a mathematical space which describes the evolution in time of the ordinary three dimensional world or is it a mathematical model of a real four dimensional world with time entirely given as the fourth dimension It contains fourteen invited papers which either directly address the main question of the nature of spacetime or explore issues related to it

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