

 Series on Knots and Everything — Vol. 12

RELATIVISTIC REALITY: A MODERN VIEW

James D. Edmonds, Jr.



World Scientific

Relativistic Reality A Modern View

Eiji Ogasa



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Relativistic Reality: A Modern View James D Edmonds Jr,1997-12-18 It now appears that the old argument about Lorentz vs Galileo relativity is passing into history The Lorentz symmetry may soon become obsolete itself just as the Galileo symmetry did about 1900 The tremendous successes of QED represent real progress in our quest to understand nature The answer is not to go as most outsiders but to go forward beyond to new ideas and equations that will match nature even better than QED does This book shows us a new view of relativity and quantum equations It has new equations that extend Lorentz Maxwell and Dirac

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Functorial Knot Theory David N. Yetter,2001 Almost since the advent of skein theoretic invariants of knots and links the Jones HOMFLY and Kauffman polynomials the important role of categories of tangles in the connection between low dimensional topology and quantum group theory has been recognized The rich categorical structures naturally arising from the considerations of cobordisms have suggested functorial views of topological field theory This book begins with a detailed exposition of the key ideas in the discovery of monoidal categories of tangles as central objects of study in low dimensional topology The focus then turns to the deformation theory of monoidal categories and the related deformation theory of monoidal functors which is a proper generalization of Gerstenhaber's deformation theory of associative algebras These serve as the building blocks for a deformation theory of braided monoidal categories which gives rise to sequences of Vassiliev invariants of framed links and clarify their interrelations

Scientific Essays In Honor Of H Pierre Noyes On The Occasion Of His 90th Birthday Louis H Kauffman,John C Amson,2013-11-26 This book is a Festschrift for the 90th birthday of the physicist Pierre Noyes The book is a representative selection of papers on the topics that have been central to the meetings over the last three decades of ANPA the Alternative Natural Philosophy Association ANPA was founded by Pierre Noyes and his colleagues the philosopher linguist physicist Frederick Parker Rhodes the physicist Ted Bastin and the mathematicians Clive Kilmister John Amson Many of the topics in the book center on the combinatorial hierarchy discovered by the originators of ANPA Other topics explore geometrical cosmological and biological aspects of those ideas and foundational aspects related to discrete physics and emergent quantum mechanics The book will be useful to readers interested in fundamental physics and particularly to readers looking for new and important viewpoints in Science that contain the seeds of futurity

Introductory Lectures on Knot Theory Louis H. Kauffman,2012 More recently Khovanov introduced link homology as a generalization of the Jones polynomial to homology of chain complexes and Ozsvath and Szabo

developed Heegaard Floer homology that lifts the Alexander polynomial. These two significantly different theories are closely related and the dependencies are the object of intensive study. These ideas mark the beginning of a new era in knot theory that includes relationships with four dimensional problems and the creation of new forms of algebraic topology relevant to knot theory. The theory of skein modules is an older development also having its roots in Jones' discovery. Another significant and related development is the theory of virtual knots originated independently by Kauffman and by Goussarov, Polyak and Viro in the 90s. All these topics and their relationships are the subject of the survey papers in this book.

Energy of Knots and Conformal Geometry Jun O'Hara, 2003. Energy of knots is a theory that was introduced to create a canonical configuration of a knot, a beautiful knot which represents its knot type. This book introduces several kinds of energies and studies the problem of whether or not there is a canonical configuration of a knot in each knot type. It also considers this problem in the context of conformal geometry. The energies presented in the book are defined geometrically. They measure the complexity of embeddings and have applications to physical knotting and unknotting through numerical experiments. Contents: In Search of the Canonical Optimal Embedding of a Knot; Energy Functional on E^2 ; L^p Norm Energy with Higher Index; Numerical Experiments; Stereo Pictures of E^2 Minimizers; Energy of Knots in a Riemannian Manifold; Physical Knot Energies; Energy of Knots from a Conformal Geometric Viewpoint; Preparation from Conformal Geometry; The Space of Non Trivial Spheres of a Knot; The Infinitesimal Cross Ratio; The Conformal Sin Energy; E^2 Measure of Non Trivial Spheres; Appendices: Generalization of the Gauss Formula for the Linking Number; The 3-Tuple Map to the Set of Circles in S^3 ; Conformal Moduli of a Solid Torus; Kirchhoff Elastica; Open Problems and Dreams. Readership: Graduate students and researchers in geometry, topology and numerical/computational mathematics.

Bios Hector C. Sabelli, 2005. This book focuses on a prototype of creative causal processes termed BIOS and how the concept can be applied to the physical world in medicine and in social science. This book presents methods for identifying creative features in empirical data studies showing biotic patterns in physical, biological and economic processes; mathematical models of bipolar positive and negative feedback that generate biotic patterns. These studies support the hypothesis that natural processes are creative, not determined, and causal, not random, and that bipolar feedback plays a major role in their evolution. Simple processes precede, coexist, constitute and surround the complex systems they generate; priority of the simple; In turn, complex processes, feedback and transform simpler ones; supremacy of the complex.

Linknot: Knot Theory By Computer Slavik Vlado Jablan, Radmila Sazdanovic, 2007-11-16. Linknot: Knot Theory by Computer provides a unique view of selected topics in knot theory suitable for students, research mathematicians and readers with backgrounds in other exact sciences including chemistry, molecular biology and physics. The book covers basic notions in knot theory as well as new methods for handling open problems such as unknotting, number, braid, family, representatives, invertibility, amphicheirality, undetectability, non algebraic tangles, polyhedral links and 2-2 moves. Hands on computations using Mathematica or the webMathematica.

package LinKnot and beautiful illustrations facilitate better learning and understanding LinKnot is also a powerful research tool for experimental mathematics implementation of Caudron's ideas The use of Conway notation enables experimenting with large families of knots and links Conjectures discussed in the book are explained at length The beauty universality and diversity of knot theory is illuminated through various non standard applications mirror curves fullerenes self referential systems and KL automata

Board Games: Throughout The History And Multidimensional Spaces Jorma Kyppö, 2019-07-08 In this richly illustrated book Dr Jorma Kyppö explores the history of board games dating back to Ancient Egypt Mesopotamia India and China He provides a description of the evolution and various interpretations of chess Furthermore the book offers the study of the old Celtic and Viking board games and the old Hawaiian board game Konane as well as a new hypothesis about the interpretation of the famous Cretan Phaistos Disk Descriptions of several chess variations including some highlights of the game theory and tiling in different dimensions are followed by a multidimensional symmetrical n person strategy game model based on chess Final chapter Concluding remarks offers the new generalizations of the Euler Poincaré's Characteristic χ and Fibonacci sequence

Woods Hole Mathematics Nils Tongring, R. C. Penner, 2004 The central theme of this volume is the contemporary mathematics of geometry and physics but the work also discusses the problem of the secondary structure of proteins and an overview of arc complexes with proposed applications to macromolecular folding is given OC Woods Hole has played such a vital role in both my mathematical and personal life that it is a great pleasure to see the mathematical tradition of the 1964 meeting resurrected forty years later and as this volume shows resurrected with new vigor and hopefully on a regular basis I therefore consider it a signal honor to have been asked to introduce this volume with a few reminiscences of that meeting forty years ago OCO Introduction by R Bott Wolf Prize Winner 2000

Hypercomplex Iterations Yumei Dang, Louis H. Kauffman, Daniel J. Sandin, 2002 Includes an interactive tour of the space of hypercomplex Julia sets and an educational mini documentary introducing fractals and hypercomplex geometry

Connections Jay Kappraff, 2001 The first edition of Connections was chosen by the National Association of Publishers USA as the best book in Mathematics Chemistry and Astronomy Professional and Reference in 1991 It has been a comprehensive reference in design science bringing together in a single volume material from the areas of proportion in architecture and design tilings and patterns polyhedra and symmetry The book presents both theory and practice and has more than 750 illustrations It is suitable for research in a variety of fields and as an aid to teaching a course in the mathematics of design It has been influential in stimulating the burgeoning interest in the relationship between mathematics and design In the second edition there are five new sections supplementary as well as a new preface describing the advances in design science since the publication of the first edition

Zero to Infinity Peter Rowlands, 2007 Unique in its field this book uses a methodology that is entirely new creating the simplest and most abstract foundations for physics to date The author proposes a fundamental description of process in a universal computational rewrite system leading to an irreducible

form of relativistic quantum mechanics from a single operator This is not only simpler and more fundamental but also seemingly more powerful than any other quantum mechanics formalism available The methodology finds immediate applications in particle physics theoretical physics and theoretical computing In addition taking the rewrite structure more generally as a description of process the book shows how it can be applied to large scale structures beyond the realm of fundamental physics

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Geometry, Language and Strategy Gerald H. Thomas, 2006 Geometry Language and Strategy is a way of looking at game theory or strategic decision making from a scientific perspective using standard equations from the fields of engineering and physics To better approximate reality it extends game theory beyond the two player set piece The book begins where former game theory literature ends OCo with multi person games on a world stage It encompasses many of the variables encountered in strategic planning using mathematics borrowed from physics and engineering rather than the economic models which have not proven to be good in predicting reality Sample Chapter s Chapter 1 Introduction 1 364 KB Contents Rules of the Game Flow of Strategic Mass Game Symmetries Analysis Graphical Presentation Applications and Open Problems Appendices Thermodynamics Symmetry in Differential Geometry Central Strategies Single Strategy Model Single Strategy Numerical Solutions Streamlines Player Fluid Readership Mathematicians and scientists who wish to broaden their understanding of economic possibilities using game theory

Self-evolving Cosmos, The: A Phenomenological Approach To Nature's Unity-in-diversity Steven M Rosen, 2008-02-22 This unique book offers an original way of thinking about two of the most significant problems confronting modern theoretical physics the unification of the forces of nature and the evolution of the universe In bringing out the inadequacies of the prevailing approach to these questions the author demonstrates the need for more than just a new theory The meanings of space and time themselves must be radically rethought which requires a whole new philosophical foundation To this end the book turns to the phenomenological writings of Maurice Merleau Ponty and Martin Heidegger Their insights into space and time bring the natural world to life in a manner well suited to the dynamic phenomena of contemporary physics In aligning continental thought with problems in physics and cosmology the book makes use of topology Phenomenological intuitions about space and time are systematically fleshed out via an unconventional and innovative approach to this qualitative branch of mathematics The author s pioneering work in topological phenomenology is applied to such topics as quantum gravity

cosmogony symmetry spin vorticity dimension theory Kaluza Klein and string theories fermion boson interrelatedness hypernumbers and the mind matter interface

Algebraic Invariants of Links Jonathan Arthur Hillman, 2012 This book serves as a reference on links and on the invariants derived via algebraic topology from covering spaces of link exteriors It emphasizes the features of the multicomponent case not normally considered by knot theorists such as longitudes the homological complexity of many variable Laurent polynomial rings the fact that links are not usually boundary links free coverings of homology boundary links the lower central series as a source of invariants nilpotent completion and algebraic closure of the link group and disc links Invariants of the types considered here play an essential role in many applications of knot theory to other areas of topology This second edition introduces two new chapters OCo twisted polynomial invariants and singularities of plane curves Each replaces brief sketches in the first edition Chapter 2 has been reorganized and new material has been added to four other chapters

Adex Theory: How The Ade Coxeter Graphs Unify Mathematics And Physics Saul-paul Sirag, 2016-01-25 This book shows how the ADE Coxeter graphs unify at least 20 different types of mathematical structures These mathematical structures are of great utility in unified field theory string theory and other areas of physics

Seeing Four-dimensional Space And Beyond: Using Knots! Eiji Ogasa, 2023-07-21 According to string theory our universe exists in a 10 or 11 dimensional space However the idea the space beyond 3 dimensions seems hard to grasp for beginners This book presents a way to understand four dimensional space and beyond with knots Beginners can see high dimensional space although they have not seen it With visual illustrations we present the manipulation of figures in high dimensional space examples of which are high dimensional knots and n spheres embedded in the $n+2$ sphere and generalize results on relations between local moves and knot invariants into high dimensional space Local moves on knots circles embedded in the 3 space are very important to research in knot theory It is well known that crossing changes are connected with the Alexander polynomial the Jones polynomial HOMFLYPT polynomial Khovanov homology Floer homology Khovanov homotopy type etc We show several results on relations between local moves on high dimensional knots and their invariants The following related topics are also introduced projections of knots knot products slice knots and slice links an open question can the Jones polynomial be defined for links in all 3 manifolds and Khovanov Lipshitz Sarkar stable homotopy type Slice knots exist in the 3 space but are much related to the 4 dimensional space The slice problem is connected with many exciting topics Khovanov homology Khovanov Lipshitz Sarkar stable homotopy type gauge theory Floer homology etc Among them the Khovanov Lipshitz Sarkar stable homotopy type is one of the exciting new areas it is defined for links in the 3 sphere but it is a high dimensional CW complex in general Much of the book will be accessible to freshmen and sophomores with some basic knowledge of topology

Bit-string Physics H. Pierre Noyes, J. C. van den Berg, 2001 We could be on the threshold of a scientific revolution Quantum mechanics is based on unique finite and discrete events General relativity assumes a continuous curved space time Reconciling the two remains the most fundamental unsolved scientific

problem left over from the last century The papers of H Pierre Noyes collected in this volume reflect one attempt to achieve that unification by replacing the continuum with the bit string events of computer science Three principles are used physics can determine whether two quantities are the same or different measurement can tell something from nothing this structure modeled by binary addition and multiplication can leave a historical record consisting of a growing universe of bit strings This book is specifically addressed to those interested in the foundations of particle physics relativity quantum mechanics physical cosmology and the philosophy of science Contents Non Locality in Particle Physics On the Physical Interpretation and the Mathematical Structure of the Combinatorial Hierarchy with T Bastin J Amson On the Construction of Relativistic Quantum Theory A Progress Report Foundations of a Discrete Physics with D McGoveran Comment on OC Statistical Mechanical Origin of the Entropy of a Rotating Charged Black HoleOCO Anti Gravity The Key to 21st Century Physics Crossing Symmetry is Incompatible with General Relativity Operationalism Revisited Measurement Accuracy Scale Invariance and the Combinatorial Hierarchy Discrete Physics and the Derivation of Electromagnetism from the Formalism of Quantum Mechanics with L H Kauffman Are Partons Confined Tachyons A Short Introduction to Bit String Physics Process System Causality and Quantum Mechanics A Psychoanalysis of Animal Faith with T Etter and other papers Readership Researchers interested in the foundations of particle physics relativity quantum mechanics physical cosmology and the philosophy of science *Quantum Invariants* Tomotada Ohtsuki,2002 This book provides an extensive and self contained presentation of quantum and related invariants of knots and 3 manifolds Polynomial invariants of knots such as the Jones and Alexander polynomials are constructed as quantum invariants i e invariants derived from representations of quantum groups and from the monodromy of solutions to the Knizhnik Zamolodchikov equation With the introduction of the Kontsevich invariant and the theory of Vassiliev invariants the quantum invariants become well organized Quantum and perturbative invariants the LMO invariant and finite type invariants of 3 manifolds are discussed The Chern Simons field theory and the Wess Zumino Witten model are described as the physical background of the invariants

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