

Mathematical Physics Studies

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New Dualities of Supersymmetric Gauge Theories

 Springer

Online Book Dualities Supersymmetric Theories Mathematical Physics

Yvan Saint-Aubin, Luc Vinet



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Duality and Supersymmetric Theories David I. Olive, Peter C. West, 1999-07-08 This is the first systematic introduction to electromagnetic duality and its generalisations The authors are the leading figures in this exciting new area of mathematical physics and their lectures have been organised not only to link with each other but also to describe the fundamental ideas the latest developments and some earlier work whose significance has only recently become apparent This will be essential reading for all those working in mathematical physics

Modern Supersymmetry John Terning, 2009-01-15 The book begins with a brief review of supersymmetry and the construction of the minimal supersymmetric standard model and approaches to supersymmetry breaking General non perturbative methods are also reviewed leading to the development of holomorphy and the Affleck Dine Seiberg superpotential as powerful tools for analysing supersymmetric theories Seiberg duality is discussed in detail with many example applications provided with special attention paid to its use in understanding dynamical supersymmetry breaking The Seiberg Witten theory of monopoles is introduced through the analysis of simpler $N = 1$ analogues Superconformal field theories are described along with the most recent development known as amaximization Supergravity theories are examined in 4 10 and 11 dimensions allowing for a discussion of anomaly and gaugino mediation and setting the stage for the anti de Sitter conformal field theory correspondence This book is unique in containing an overview of the important developments in supersymmetry since the publication of Supersymmetry and Supergravity by Wess and Bagger It also strives to cover topics that are of interest to both formal and phenomenological theorists

Supersymmetric Field Theories Sergio Cecotti, 2015-01-08 Adopting an elegant geometrical approach this advanced pedagogical text describes deep and intuitive methods for understanding the subtle logic of supersymmetry while avoiding lengthy computations The book describes how complex results and formulae obtained using other approaches can be significantly simplified when translated to a geometric setting Introductory chapters describe geometric structures in field theory in the general case while detailed later chapters address specific structures such as parallel tensor fields G structures and isometry groups The relationship between structures in supergravity and periodic maps of algebraic manifolds Kodaira Spencer theory modularity and the arithmetic properties of supergravity are also addressed Relevant geometric concepts are introduced and described in detail providing a self contained toolkit of useful techniques formulae and constructions Covering all the material necessary for the application of supersymmetric field theories to fundamental physical questions this is an outstanding resource for graduate students and researchers in theoretical physics

Differential Geometry and Mathematical Physics Gerd Rudolph, Matthias Schmidt, 2017-03-22 The book is devoted to the study of the geometrical and topological structure of gauge theories It consists of the following three building blocks Geometry and topology of fibre bundles Clifford algebras spin structures and Dirac operators Gauge theory Written in the style of a mathematical textbook it combines a comprehensive presentation of the mathematical

foundations with a discussion of a variety of advanced topics in gauge theory The first building block includes a number of specific topics like invariant connections universal connections H structures and the Postnikov approximation of classifying spaces Given the great importance of Dirac operators in gauge theory a complete proof of the Atiyah Singer Index Theorem is presented The gauge theory part contains the study of Yang Mills equations including the theory of instantons and the classical stability analysis the discussion of various models with matter fields including magnetic monopoles the Seiberg Witten model and dimensional reduction and the investigation of the structure of the gauge orbit space The final chapter is devoted to elements of quantum gauge theory including the discussion of the Gribov problem anomalies and the implementation of the non generic gauge orbit strata in the framework of Hamiltonian lattice gauge theory The book is addressed both to physicists and mathematicians It is intended to be accessible to students starting from a graduate level

Mathematical Perspectives on Theoretical Physics Nirmala Prakash, 2003 Readership Upper level undergraduates graduate students lecturers and researchers in theoretical mathematical and quantum physics Topology, C^* -Algebras, and String Duality Jonathan Rosenberg, 2009-10-27 String theory is the leading candidate for a physical theory that combines all the fundamental forces of nature as well as the principles of relativity and quantum mechanics into a mathematically elegant whole The mathematical tools used by string theorists are highly sophisticated and cover many areas of mathematics As with the birth of quantum theory in the early 20th century the mathematics has benefited at least as much as the physics from the collaboration In this book based on CBMS lectures given at Texas Christian University Rosenberg describes some of the most recent interplay between string dualities and topology and operator algebras The book is an interdisciplinary approach to duality symmetries in string theory It can be read by either mathematicians or theoretical physicists and involves a more or less equal mixture of algebraic topology operator algebras and physics There is also a bit of algebraic geometry especially in the last chapter The reader is assumed to be somewhat familiar with at least one of these four subjects but not necessarily with all or even most of them The main objective of the book is to show how several seemingly disparate subjects are closely linked with one another and to give readers an overview of some areas of current research even if this means that not everything is covered systematically **String Theory and M-Theory** Katrin Becker, Melanie Becker, John H. Schwarz, 2006-12-07 String theory is one of the most exciting and challenging areas of modern theoretical physics This book guides the reader from the basics of string theory to recent developments It introduces the basics of perturbative string theory world sheet supersymmetry space time supersymmetry conformal field theory and the heterotic string before describing modern developments including D branes string dualities and M theory It then covers string geometry and flux compactifications applications to cosmology and particle physics black holes in string theory and M theory and the microscopic origin of black hole entropy It concludes with Matrix theory the AdS CFT duality and its generalizations This book is ideal for graduate students and researchers in modern string theory and will make an excellent

textbook for a one year course on string theory It contains over 120 exercises with solutions and over 200 homework problems with solutions available on a password protected website for lecturers at www.cambridge.org/9780521860697

Love and Math Edward Frenkel, 2013-10-01 An awesome globe spanning and New York Times bestselling journey through the beauty and power of mathematics What if you had to take an art class in which you were only taught how to paint a fence What if you were never shown the paintings of van Gogh and Picasso weren't even told they existed Alas this is how math is taught and so for most of us it becomes the intellectual equivalent of watching paint dry In *Love and Math* renowned mathematician Edward Frenkel reveals a side of math we've never seen suffused with all the beauty and elegance of a work of art In this heartfelt and passionate book Frenkel shows that mathematics far from occupying a specialist niche goes to the heart of all matter uniting us across cultures time and space *Love and Math* tells two intertwined stories of the wonders of mathematics and of one young man's journey learning and living it Having braved a discriminatory educational system to become one of the twenty first century's leading mathematicians Frenkel now works on one of the biggest ideas to come out of math in the last 50 years the Langlands Program Considered by many to be a Grand Unified Theory of mathematics the Langlands Program enables researchers to translate findings from one field to another so that they can solve problems such as Fermat's last theorem that had seemed intractable before At its core *Love and Math* is a story about accessing a new way of thinking which can enrich our lives and empower us to better understand the world and our place in it It is an invitation to discover the magic hidden universe of mathematics

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Lectures on Field Theory and Topology Daniel S. Freed, 2019-08-23 These lectures recount an application of stable homotopy theory to a concrete problem in low energy physics the classification of special phases of matter While the joint work of the author and Michael Hopkins is a focal point a general geometric frame of reference on quantum field theory is emphasized Early lectures describe the geometric axiom systems introduced by Graeme Segal and Michael Atiyah in the late 1980s as well as

subsequent extensions This material provides an entry point for mathematicians to delve into quantum field theory Classification theorems in low dimensions are proved to illustrate the framework The later lectures turn to more specialized topics in field theory including the relationship between invertible field theories and stable homotopy theory extended unitarity anomalies and relativistic free fermion systems The accompanying mathematical explanations touch upon higher category theory duals to the sphere spectrum equivariant spectra differential cohomology and Dirac operators The outcome of computations made using the Adams spectral sequence is presented and compared to results in the condensed matter literature obtained by very different means The general perspectives and specific applications fuse into a compelling story at the interface of contemporary mathematics and theoretical physics

Theoretical Physics at the End of the Twentieth Century Yvan Saint-Aubin, Luc Vinet, 2013-03-14 The Centre de recherches mathématiques CRM was created in 1968 by the Université de Montréal to promote research in the mathematical sciences It is now a national institute that hosts several groups and holds special theme years summer schools workshops and a postdoctoral program The focus of its scientific activities ranges from pure to applied mathematics and includes statistics theoretical computer science mathematical methods in biology and life sciences and mathematical and theoretical physics The CRM also promotes collaboration between mathematicians and industry It is subsidized by the Natural Sciences and Engineering Research Council of Canada the Fonds FCAR of the Province de Québec and the Canadian Institute for Advanced Research and has private endowments Current activities fellowships and annual reports can be found on the CRM Web page at www.crm.umontreal.ca The CRM Series in Mathematical Physics includes monographs lecture notes and proceedings based on research pursued and events held at the Centre de recherches mathématiques

High Energy Physics Research Advances Thomas P. Harrison, Roberto N. Gonzales, 2008 This text is devoted to important research results in high energy physics which includes the following areas of theoretical and experimental physics collider physics underground and large array physics astroparticles gauge field theories and general relativity and gravitation

String Theory and Fundamental Interactions Maurizio Gasperini, Jnan Maharana, 2007-11-08 This book has been prepared to celebrate the 65th birthday of Gabriele Veneziano and his retirement from CERN in September 2007 This retirement certainly will not mark the end of his extraordinary scientific career in particular he will remain on the permanent staff of the Collège de France in Paris but we believe that this important step deserves a special celebration and an appropriate recognition of his monumental contribution to physics Our initial idea of preparing a volume of Selected papers of Professor Gabriele Veneziano possibly with some added commentary was dismissed when we realized that this format of book very popular in former times has become redundant today because of the full digitalization of all important physical journals and their availability online in the electronic archives We have thus preferred an alternative and unconventional but probably more effective form of celebrating Gabriele's birthday a collection of new papers written by his main collaborators and friends on the various aspects of theoretical physics that have been the object of

his research work during his long and fruitful career Featured Reviews in "Mathematical Reviews" 1995-1996 Donald G. Babbitt, Jane E. Kister, This collection of reprinted Featured Reviews published in Mathematical Reviews MR in 1995 and 1996 makes widely available informed reviews of some of the best mathematics published recently Featured Reviews were introduced in MR at the beginning of 1995 in part to provide some guidance to the current research level literature With the exponential growth of publications in mathematical research in the first half century of MR it had become essentially impossible for users of MR to identify the most important new research level books and papers especially in fields outside of the users own expertise This work identifies some of the best new publications papers and books that are expected to have a significant impact on the area of pure or applied mathematics with which researchers are concerned All of the papers reviewed here contain interesting new ideas or applications a deep synthesis of existing ideas or any combination of these The volume is intended to lead the user to important new research across all fields covered by MR **Mathematical Reviews**, 2008 *Quivers of Reality* Oliver Vella, 2024-12-24 Embark on an Intellectual Odyssey Delve into the Mysteries of the Universe Prepare to journey through the enigmatic realms of theoretical physics with *Quivers of Reality* A Journey Through M Theory and Lie Algebras This riveting exploration challenges the boundaries of our understanding seamlessly intertwining the surreal landscapes of higher dimensions and intricate mathematical frameworks Discover the foundational elements of M Theory the revolutionary theory that posits a universe woven with multiple dimensions From the origins of M Theory to the grandeur of Lie Algebras this book meticulously unpacks complex concepts with clarity paying homage to the mathematical structures of E8 and E11 that underpin our physical world Experience the allure of unraveled mysteries with chapters detailing pivotal theories including AdS CFT correspondence and the Holographic Principle Explore how these theoretical frameworks reshape modern physics offering unprecedented insights into the nature of reality itself With captivating discussions on symmetry supersymmetry and symmetry breaking this volume is an indispensable guide for those seeking to comprehend the universe's wondrous complexities Engage your intellect with advanced topics like motivic cohomology and quantum gravity The book deftly navigates the labyrinth of dualities dimensional reductions and the intricate dance between string theory and Lie Algebras Envision a cosmos unified by mathematical elegance and groundbreaking theoretical perspectives as each chapter opens new vistas of understanding Your intellectual quest for knowledge awaits Dive into the depths of physics where elegance meets complexity and timeless questions spur the pursuit of the ultimate unifying theory Are you ready to join the expedition that challenges perceptions and reshapes our conception of the cosmos **Theoretical Physics to Face the Challenge of LHC** Laurent Baulieu, Karim Benakli, Michael R. Douglas, Bruno Mansoulié, Eliezer Rabinovici, Leticia F. Cugliandolo, 2015-01-22 The book gathers the lecture notes of the Les Houches Summer School that was held in August 2011 for an audience of advanced graduate students and post doctoral fellows in particle physics theoretical physics and cosmology areas where new experimental results were on the verge of

being discovered at CERN Every Les Houches School has its own distinct character This one was held during a summer of great anticipation that at any moment contact might be made with the most recent theories of the nature of the fundamental forces and the structure of space time In fact during the session the long anticipated discovery of the Higgs particle was announced The book vividly describes the fruitful and healthy schizophrenia that is the rule among the community of theoreticians who have split into several components those doing phenomenology and those dealing with highly theoretical problems with a few trying to bridge both domains The lectures by theoreticians covered many directions in the theory of elementary particles from classics such as the Supersymmetric Standard Model to very recent ideas such as the relation between black holes hydrodynamics and gauge gravity duality The lectures by experimentalists explained in detail how intensively and how precisely the LHC collider has verified the theoretical predictions of the Standard Model predictions that were at the front lines of experimental discovery during the 70 s 80 s and 90 s and how the LHC is ready to make new discoveries They described many of the ingenious and pioneering techniques developed at CERN for the detection and the data analysis of billions of billions of proton proton collisions

String Theory and Particle Physics Luis E. Ibáñez, Angel M. Uranga, 2012-02-09 A systematic introduction to string phenomenology outlining how string theory is connected to the real world of particle physics

Witten Index Andrei Smilga, 2024-08-27 The book is devoted to vacuum structure of supersymmetric quantum mechanical and field theories The Witten Index the title of book is a powerful theoretical tool which allows one to find out whether supersymmetry breaks down spontaneously in a given theory or not This is the main physical interest of this notion but the latter has also many beautiful purely mathematical connotations It represents a variant of the so called equivariant index introduced by Cartan back in 1950 and is closely related to the Atiyah Singer index In his previous book *Differential Geometry through Supersymmetric Glasses* World Scientific 2020 the author showed how the supersymmetric language allows one to describe in a rather transparent way some known facts of differential geometry and also derive new results in this field This book is mostly addressed to experts in quantum field theory but the first three chapters has an introductory textbook nature and can be read by a non expert In Chapters 4 and 5 the general aspects of the Witten index are explained and the relationship with pure mathematical problems is elucidated Chapters 6 7 8 are devoted to four dimensional supersymmetric gauge theories pure supersymmetric Yang Mills theories in Chapter 6 the theories including a nonchiral Chapter 7 and chiral Chapter 8 matter Chapter 9 is devoted to the so called maximal supersymmetric quantum mechanics obtained by a dimensional reduction of the 10 dimensional supersymmetric Yang Mills theory In Chapter 10 the numbers of supersymmetric vacua in 3 dimensional supersymmetric Yang Mills Chern Simons theories is calculated Finally in Chapter 11 the author discusses some relatives of the Witten index such as the indices for the 4 dimensional theories compactified on $S^3 \times \mathbb{R}$ rather than 4 torus or the so called Cecolli Fendley Intriligator Vafa index

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