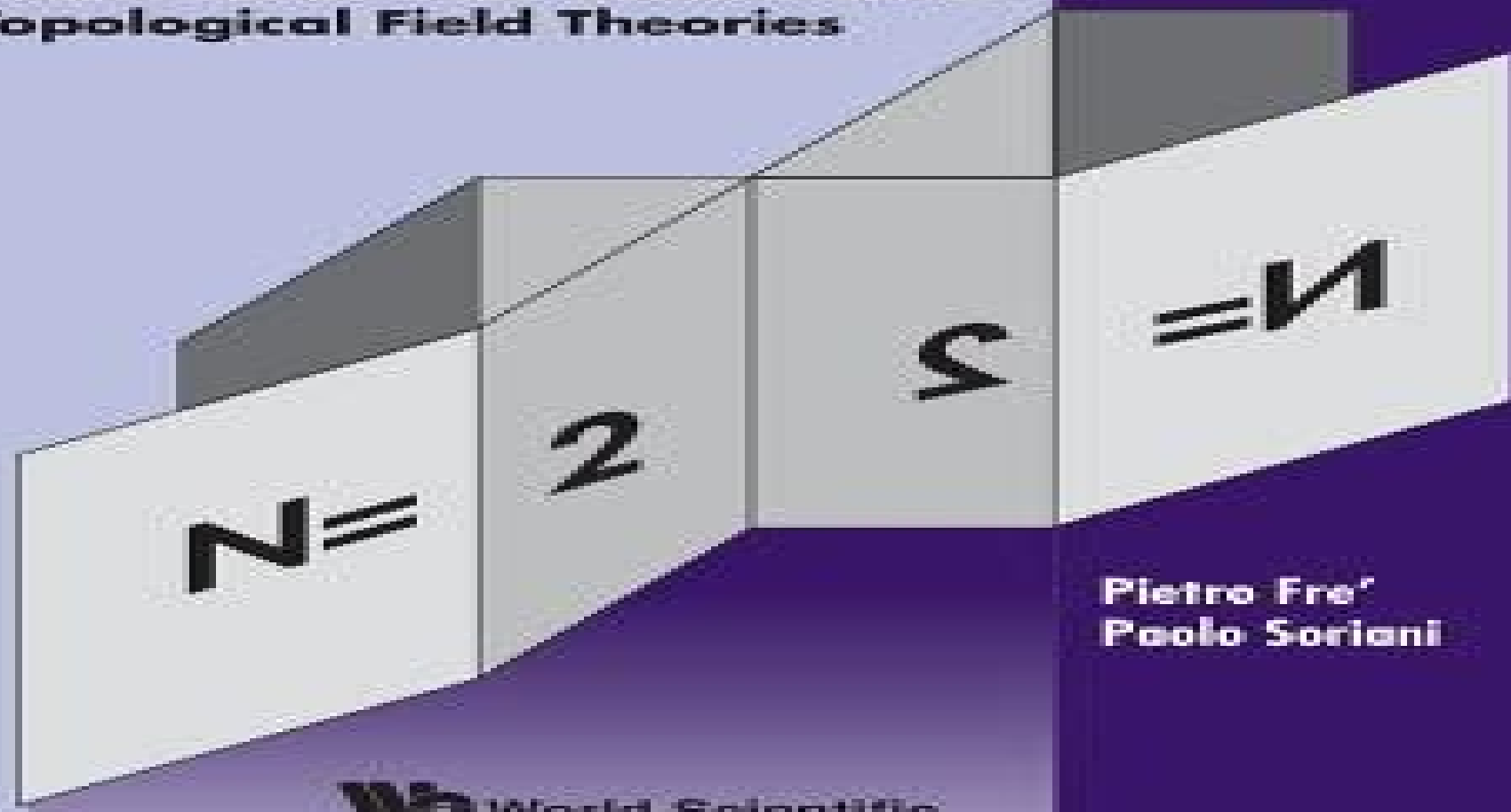


THE $N=2$ WONDERLAND

From Calabi-Yau Manifolds to
Topological Field Theories



Pietro Fre' $\hat{}$
Paolo Sorioni



World Scientific

From Calabi-Yau Manifolds To Topological Field Theories

P. Fr \ddot{a} , Paolo Soriani



From Calabi-Yau Manifolds To Topological Field Theories:

The N P. Fr, Paolo Soriani, 1995 This book presents in a unifying perspective the topics related to $N=2$ supersymmetry in two dimensions Beginning with the Kähler structure of $D=4$ supergravity Lagrangians through the analysis of string compactifications on Calabi-Yau manifolds one reaches the heart of the matter with the chiral ring structure of $N=2$ conformal field theories and its relation to topological field theory models and Landau Ginzburg models In addition mirror symmetry topological twists and Picard Fuchs equations are discussed *N=2 Wonderland, The: From Calabi-Yau Manifolds To Topological Field Theories* Pietro Fre, Paolo Soriani, 1995-07-14 This book presents in a unifying perspective the topics related to $N=2$ supersymmetry in two dimensions Beginning with the Kähler structure of $D=4$ supergravity Lagrangians through the analysis of string compactifications on Calabi-Yau manifolds one reaches the heart of the matter with the chiral ring structure of $N=2$ conformal field theories and its relation to topological field theory models and Landau Ginzburg models In addition mirror symmetry topological twists and Picard Fuchs equations are discussed *Mirror Symmetry I* Shing-Tung Yau, 1998 Vol 1 represents a new ed of papers which were originally published in Essays on mirror manifolds 1992 supplemented by the additional volume Mirror symmetry 2 which presents papers by both physicists and mathematicians Mirror symmetry 1 the 1st volume constitutes the proceedings of the Mathematical Sciences Research Institute Workshop of 1991

Integrable Quantum Field Theories L. Bonora, Giuseppe Mussardo, A. Schwimmer, L. Girardello, M. Martellini, 2013-11-11 Proceedings of a NATO ARW held in Como Italy September 14-19 1992 *Supersymmetric Mechanics - Vol. 3* Stefano Bellucci, 2008-09-25 This is the third volume in a series of books on general topics in supersymmetric mechanics This collection presents material from the well established international and annual INFN Laboratori Nazionali di Frascati Winter School on the Attractor Mechanism *Mirror Symmetry II* Brian Greene, Shing-Tung Yau, 1997 Mirror Symmetry has undergone dramatic progress since the Mathematical Sciences Research Institute MSRI workshop in 1991 whose proceedings constitute volume I of this continuing collection Tremendous insight has been gained on a number of key issues This volume surveys these results Some of the contributions in this work have appeared elsewhere while others were written specifically for this collection The areas covered are organized into 4 sections and each presents papers by both physicists and mathematicians This volume collects the most important developments that have taken place in mathematical physics since 1991 It is an essential reference tool for both mathematics and physics libraries and for students of physics and mathematics Titles in this series are co published between the American Mathematical Society and International Press Cambridge MA USA Mirror Symmetry Claire Voisin, 1999 Describes recent works motivated by the discovery of the mirror symmetry phenomenon by physicists The book opens with the geometry of Calabi-Yau manifolds and the ideas from quantum field theory that led to this discovery The rest of the book is devoted to the mathematical aspects of mirror symmetry No index Annotation copyrighted by Book News Inc Portland OR Commutative Algebra Irena Peeva, 2013-02-01

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An Introduction to Two-Dimensional Quantum Field Theory with $(0,2)$ Supersymmetry Ilarion V. Melnikov, 2019-02-11 This book introduces two dimensional supersymmetric field theories with emphasis on both linear and non linear sigma models Complex differential geometry in connection with supersymmetry has played a key role in most developments of the last thirty years in quantum field theory and string theory Both structures introduce a great deal of rigidity compared to the more general categories of non supersymmetric theories and real differential geometry allowing for many general conceptual results and detailed quantitative predictions Two dimensional $0,2$ supersymmetric quantum field theories provide a natural arena for the fruitful interplay between geometry and quantum field theory These theories play an important role in string theory and provide generalizations still to be explored fully of rich structures such as mirror symmetry They also have applications to non perturbative four dimensional physics for instance as descriptions of surface defects or low energy dynamics of solitonic strings in four dimensional supersymmetric theories The purpose of these lecture notes is to acquaint the reader with these fascinating theories assuming a background in conformal theory quantum field theory and differential geometry at the beginning graduate level In order to investigate the profound relations between structures from complex geometry and field theory the text begins with a thorough examination of the basic structures of $0,2$ quantum field theory and conformal field theory Next a simple class of Lagrangian theories the $0,2$ Landau Ginzburg models are discussed together with the resulting renormalization group flows dynamics and symmetries After a thorough introduction and examination of $0,2$ non linear sigma models the text introduces linear sigma models that in particular provide a unified treatment of non linear sigma models and Landau Ginzburg theories Many exercises along with discussions of relevant mathematical notions and important open problems in the field are included in the text

Classical Mirror Symmetry Masao Jinzenji, 2018-04-18 This book furnishes a brief introduction to classical mirror symmetry a term that denotes the process of computing Gromov Witten invariants of a Calabi Yau threefold by using the Picard Fuchs differential equation of period integrals of its mirror Calabi Yau threefold The book concentrates on the best known example the quintic hypersurface in 4 dimensional projective space and its mirror manifold First there is a brief review of the process of discovery of mirror symmetry and the striking result proposed in the celebrated paper by Candelas and his collaborators Next some elementary results of complex manifolds and Chern classes

needed for study of mirror symmetry are explained Then the topological sigma models the A model and the B model are introduced The classical mirror symmetry hypothesis is explained as the equivalence between the correlation function of the A model of a quintic hyper surface and that of the B model of its mirror manifold On the B model side the process of construction of a pair of mirror Calabi Yau threefold using toric geometry is briefly explained Also given are detailed explanations of the derivation of the Picard Fuchs differential equation of the period integrals and on the process of deriving the instanton expansion of the A model Yukawa coupling based on the mirror symmetry hypothesis On the A model side the moduli space of degree d quasimaps from \mathbb{CP}^1 with two marked points to \mathbb{CP}^4 is introduced with reconstruction of the period integrals used in the B model side as generating functions of the intersection numbers of the moduli space Lastly a mathematical justification for the process of the B model computation from the point of view of the geometry of the moduli space of quasimaps is given The style of description is between that of mathematics and physics with the assumption that readers have standard graduate student backgrounds in both disciplines

Supersymmetric Gauge Field Theory and String Theory D. Bailin, Alexander Love, 1994-01-01 Designed as a sequel to the authors Introduction to Gauge Field Theory Supersymmetric Gauge Field Theory and String Theory introduces first year graduate students to supersymmetric theories including supergravity and superstring theories Starting with the necessary background in quantum field theory the book covers the three key topics of high energy physics The emphasis is on practical calculations rather than abstract generalities or phenomenological results Where possible the authors show how to calculate connecting the theoretical with the phenomenological While the field continues to advance and grow this book addresses the basic theory at the core and will likely remain relevant even if more advanced ideas change

Introduction to String Theory Sergio Cecotti, 2023-10-06 Graduate students typically enter into courses on string theory having little to no familiarity with the mathematical background so crucial to the discipline As such this book based on lecture notes edited and expanded from the graduate course taught by the author at SISSA and BIMSA places particular emphasis on said mathematical background The target audience for the book includes students of both theoretical physics and mathematics This explains the book's strange style on the one hand it is highly didactic and explicit with a host of examples for the physicists but in addition there are also almost 100 separate technical boxes appendices and starred sections in which matters discussed in the main text are put into a broader mathematical perspective while deeper and more rigorous points of view particularly those from the modern era are presented The boxes also serve to further shore up the reader's understanding of the underlying math In writing this book the author's goal was not to achieve any sort of definitive conciseness opting instead for clarity and completeness To this end several arguments are presented more than once from different viewpoints and in varying contexts

Dirichlet Branes and Mirror Symmetry, 2009 Research in string theory has generated a rich interaction with algebraic geometry with exciting work that includes the Strominger Yau Zaslow conjecture This monograph builds on lectures at the 2002 Clay School on

Geometry and String Theory that sought to bridge the gap between the languages of string theory and algebraic geometry

Orbifolds in Mathematics and Physics Alejandro Adem, Jack Morava, Yongbin Ruan, 2002 This book publishes papers originally presented at a conference on the Mathematical Aspects of Orbifold String Theory hosted by the University of Wisconsin Madison It contains a great deal of information not fully covered in the published literature and showcases the current state of the art in orbital string theory The subject of orbifolds has a long prehistory going back to the work of Thurston and Haefliger with roots in the theory of manifolds group actions and foliations The recent explosion of activity on the topic has been powered by applications of orbifolds to moduli problems and quantum field theory The present volume presents an interdisciplinary look at orbifold problems Topics such as stacks vertex operator algebras branes groupoids K theory and quantum cohomology are discussed The book reflects the thinking of distinguished investigators working in the areas of mathematical physics algebraic geometry algebraic topology symplectic geometry and representation theory By presenting the work of a broad range of mathematicians and physicists who use and study orbifolds it familiarizes readers with the various points of view and types of results the researchers bring to the subject

Low-Dimensional Applications of Quantum Field Theory L. Baulieu, Vladimir Kazakov, Marco Picco, Paul Windey, 2013-12-01 The Cargèse Summer School Low Dimensional Applications of Quantum Field Theory was held in July 1995 The School was dedicated to the memory of Claude Itzykson This session focused on the recent progress in quantum field theory in two dimensions with a particular emphasis on integrable models and applications of quantum field theory to condensed matter physics A large fraction of the school was also devoted to a detailed review of the exciting developments in four dimensional super symmetric Yang Mills theory The diversity of the topics presented constitute in our opinion one of the most attractive features of these proceedings Some contributions constitute a very thorough introduction to their subject matter and should be helpful to advanced students in the field while others present entirely new research not previously published and should be of considerable interest to the specialist There were in depth introductory lectures on the application of conformal field theory techniques to disordered systems on the quantum Hall effect on quantum integrable systems on the thermodynamic Bethe Ansatz and on the new developments in supersymmetric gauge theories The computation of the three point function of the Liouville model using conformal bootstrap methods was presented in detail

Calabi-Yau Varieties: Arithmetic, Geometry and Physics Radu Laza, Matthias Schütt, Noriko Yui, 2015-08-27 This volume presents a lively introduction to the rapidly developing and vast research areas surrounding Calabi Yau varieties and string theory With its coverage of the various perspectives of a wide area of topics such as Hodge theory Gross Siebert program moduli problems toric approach and arithmetic aspects the book gives a comprehensive overview of the current streams of mathematical research in the area The contributions in this book are based on lectures that took place during workshops with the following thematic titles Modular Forms Around String Theory Enumerative Geometry and Calabi Yau Varieties Physics Around Mirror Symmetry Hodge Theory in String Theory

The book is ideal for graduate students and researchers learning about Calabi Yau varieties as well as physics students and string theorists who wish to learn the mathematics behind these varieties **Progress In String Theory: Tasi 2003**

Lecture Notes Juan M Maldacena, Kalyana T Mahanthappa, 2005-07-12 Intended mainly for advanced graduate students in theoretical physics this comprehensive volume covers recent advances in string theory and field theory dualities It is based on the annual lectures given at the School of the Theoretical Advanced Study Institute 2003 a traditional event that brings together graduate students in high energy physics for an intensive course given by leaders in their fields The first lecture by Paul Aspinwall is a description of branes in Calabi Yau manifolds which includes an introduction to the modern ideas of derived categories and their relation to D branes Juan Maldacena's second lecture is a short introduction to the AdS CFT correspondence with a short discussion on its plane wave limit Tachyon condensation for open strings is discussed in the third lecture by Ashoke Sen while Eva Silverstein provides a useful summary of the various attempts to produce four dimensional physics out of string theory and M theory in the fourth lecture Matthew Strassler's fifth lecture is a careful discussion of a theory that has played a very important role in recent developments in string theory a quantum field theory that produces a duality cascade which also has a large N gravity description The sixth lecture by Washington Taylor explains how to perform perturbative computations using string field theory The written presentation of these lectures is detailed yet straightforward and they will be of great use to both students and experienced researchers in high energy theoretical physics

Noncommutative Geometry and Global Analysis Henri Moscovici, 2011 This volume represents the proceedings of the conference on Noncommutative Geometric Methods in Global Analysis held in honor of Henri Moscovici from June 29 July 4 2009 in Bonn Germany Henri Moscovici has made a number of major contributions to noncommutative geometry global analysis and representation theory This volume which includes articles by some of the leading experts in these fields provides a panoramic view of the interactions of noncommutative geometry with a variety of areas of mathematics It focuses on geometry analysis and topology of manifolds and singular spaces index theory group representation theory connections of noncommutative geometry with number theory and arithmetic geometry Hopf algebras and their cyclic cohomology

Topology, Geometry and Quantum Field Theory Ulrike Luise Tillmann, 2004-06-28 The symposium held in honour of the 60th birthday of Graeme Segal brought together leading physicists and mathematicians Its topics were centred around string theory M theory and quantum gravity on the one hand and K theory elliptic cohomology quantum cohomology and string topology on the other Geometry and quantum physics developed in parallel since the recognition of the central role of non abelian gauge theory in elementary particle physics in the late seventies and the emerging study of super symmetry and string theory With its selection of survey and research articles these proceedings fulfil the dual role of reporting on developments in the field and defining directions for future research For the first time Graeme Segal's manuscript The definition of Conformal Field Theory is published which has been greatly influential over more than ten years An introduction

by the author puts it into the present context Mathematics Unlimited - 2001 and Beyond Björn Engquist, Wilfried Schmid, 2017-04-05 This is a book guaranteed to delight the reader It not only depicts the state of mathematics at the end of the century but is also full of remarkable insights into its future development as we enter a new millennium True to its title the book extends beyond the spectrum of mathematics to include contributions from other related sciences You will enjoy reading the many stimulating contributions and gain insights into the astounding progress of mathematics and the perspectives for its future One of the editors Björn Engquist is a world renowned researcher in computational science and engineering The second editor Wilfried Schmid is a distinguished mathematician at Harvard University Likewise the authors are all foremost mathematicians and scientists and their biographies and photographs appear at the end of the book Unique in both form and content this is a must read for every mathematician and scientist and in particular for graduates still choosing their specialty

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