

Chern-Simons Theory, Matrix Models, and Topological Strings

SHARON D. SHARPLEND



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Chern Simons Theory Matrix Models And Topological Strings

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Chern-Simons Theory, Matrix Models, and Topological Strings Marcos Marino, 2005 This book provides an introduction to some of the most recent developments in string theory and in particular to their mathematical implications and their impact in knot theory and algebraic geometry

Chern-Simons Theory, Matrix Models, and Topological Strings Marcos Marino, 2005 After an introduction to matrix models and Cherns Simons gauge theory this book describes in detail the topological string theories that correspond to these gauge theories and develops the mathematical implication of this duality for the enumerative geometry of Calabi Yau manifolds and knot theory

From Hodge Theory to Integrability and TQFT Ron Donagi, Katrin Wendland, 2008 Ideas from quantum field theory and string theory have had an enormous impact on geometry over the last two decades One extremely fruitful source of new mathematical ideas goes back to the works of Cecotti Vafa et al around 1991 on the geometry of topological field theory Their tt geometry tt stands for topological antitopological was motivated by physics but it turned out to unify ideas from such separate branches of mathematics as singularity theory Hodge theory integrable systems matrix models and Hurwitz spaces The interaction among these fields suggested by tt geometry has become a fast moving and exciting research area This book loosely based on the 2007 Augsburg Germany workshop From tQFT to tt and Integrability is the perfect introduction to the range of mathematical topics relevant to tt geometry It begins with several surveys of the main features of tt geometry Frobenius manifolds twistors and related structures in algebraic and differential geometry each starting from basic definitions and leading to current research The volume moves on to explorations of current foundational issues in Hodge theory higher weight phenomena in twistor theory and non commutative Hodge structures and their relation to mirror symmetry The book concludes with a series of applications to integrable systems and enumerative geometry exploring further extensions and connections to physics With its progression through introductory foundational and exploratory material this book is an indispensable companion for anyone working in the subject or wishing to enter it Publisher s website

Applications of Random Matrices in Physics Édouard Brezin, Vladimir Kazakov, Didina Serban, Paul Wiegmann, Anton Zabrodin, 2006-07-03 Random matrices are widely and successfully used in physics for almost 60 70 years beginning with the works of Dyson and Wigner Although it is an old subject it is constantly developing into new areas of physics and mathematics It constitutes now a part of the general culture of a theoretical physicist Mathematical methods inspired by random matrix theory become more powerful sophisticated and enjoy rapidly growing applications in physics Recent examples include the calculation of universal correlations in the mesoscopic system new applications in disordered and quantum chaotic systems in combinatorial and growth models as well as the recent breakthrough due to the matrix models in two dimensional gravity and string theory and the non abelian gauge theories The book consists of the lectures of the leading specialists and covers rather systematically many of these topics It can be useful to the specialists in various subjects using random matrices from PhD students to

confirmed scientists Strings and Fundamental Physics Marco Baumgartl, Ilka Brunner, Michael Haack, 2012-04-05 The basic idea simple and revolutionary at the same time to replace the concept of a point particle with a one dimensional string has opened up a whole new field of research Even today four decades later its multifaceted consequences are still not fully conceivable Up to now string theory has offered a new way to view each particle as different excitations of the same fundamental object It has celebrated success in discovering the graviton in its spectrum and it has naturally led scientists to posit space times with more than four dimensions which in turn has triggered numerous interesting developments in fields as varied as condensed matter physics and pure mathematics This book collects pedagogical lectures by leading experts in string theory introducing the non specialist reader to some of the newest developments in the field The carefully selected topics are at the cutting edge of research in string theory and include new developments in topological strings or AdS CFT dualities as well as newly emerging subfields such as doubled field theory and holography in the hydrodynamic regime The contributions to this book have been selected and arranged in such a way as to form a self contained graduate level textbook

String-Math 2015 Si Li, Bong H. Lian, Wei Song, Shing-Tung Yau, 2017-11-28 This volume contains the proceedings of the conference String Math 2015 which was held from December 31 2015 January 4 2016 at Tsinghua Sanya International Mathematics Forum in Sanya China Two of the main themes of this volume are frontier research on Calabi Yau manifolds and mirror symmetry and the development of non perturbative methods in supersymmetric gauge theories The articles present state of the art developments in these topics String theory is a broad subject which has profound connections with broad branches of modern mathematics In the last decades the prosperous interaction built upon the joint efforts from both mathematicians and physicists has given rise to marvelous deep results in supersymmetric gauge theory topological string M theory and duality on the physics side as well as in algebraic geometry differential geometry algebraic topology representation theory and number theory on the mathematics side **Homological Mirror Symmetry and Tropical**

Geometry Ricardo Castano-Bernard, Fabrizio Catanese, Maxim Kontsevich, Tony Pantev, Yan Soibelman, Ilia Zharkov, 2014-10-07 The relationship between Tropical Geometry and Mirror Symmetry goes back to the work of Kontsevich and Y Soibelman 2000 who applied methods of non archimedean geometry in particular tropical curves to Homological Mirror Symmetry In combination with the subsequent work of Mikhalkin on the tropical approach to Gromov Witten theory and the work of Gross and Siebert Tropical Geometry has now become a powerful tool Homological Mirror Symmetry is the area of mathematics concentrated around several categorical equivalences connecting symplectic and holomorphic or algebraic geometry The central ideas first appeared in the work of Maxim Kontsevich 1993 Roughly speaking the subject can be approached in two ways either one uses Lagrangian torus fibrations of Calabi Yau manifolds the so called Strominger Yau Zaslow picture further developed by Kontsevich and Soibelman or one uses Lefschetz fibrations of symplectic manifolds suggested by Kontsevich and further developed by Seidel Tropical Geometry studies piecewise linear objects which appear as

degenerations of the corresponding algebro geometric objects **Noncommutative Geometry and Physics 2005** ,2007
 This book provides a comprehensive overview of the authors pioneering contributions to nonlinear set valued analysis by topological methods The coverage includes fixed point theory degree theory the KKM principle variational inequality theory the Nash equilibrium point in mathematical economics the Pareto optimum in optimization and applications to best approximation theory partial equations and boundary value problems Self contained and unified in presentation the book considers the existence of equilibrium points of abstract economics in topological vector spaces from the viewpoint of Ky Fan minimax inequalities It also provides the latest developments in KKM theory and degree theory for nonlinear set valued mappings Infinite Analysis 2010 Atsuo Kuniba,2011 String-Math 2011 Jonathan Block,2012 The nature of interactions between mathematicians and physicists has been thoroughly transformed in recent years String theory and quantum field theory have contributed a series of profound ideas that gave rise to entirely new mathematical fields and revitalized older ones The influence flows in both directions with mathematical techniques and ideas contributing crucially to major advances in string theory A large and rapidly growing number of both mathematicians and physicists are working at the string theoretic interface between the two academic fields The String Math conference series aims to bring together leading mathematicians and mathematically minded physicists working in this interface This volume contains the proceedings of the inaugural conference in this series String Math 2011 which was held June 6 11 2011 at the University of Pennsylvania
 Dissertation Abstracts International ,2007 *Atti Del ... Congresso Internazionale Dei Matematici ...* ,2006 *Aspects de la physique en 2005* ,2005 **Advances in Theoretical and Mathematical Physics** ,2008 **Encyclopedia of Mathematical Physics** Jean-Pierre Francoise,Gregory L. Naber,Sheung Tsun Tsou,2006 The Encyclopedia of Mathematical Physics provides a complete resource for researchers students and lecturers with an interest in mathematical physics It enables readers to access basic information on topics peripheral to their own areas to provide a repository of the core information in the area that can be used to refresh the researcher s own memory banks and aid teachers in directing students to entries relevant to their course work The Encyclopedia does contain information that has been distilled organised and presented as a complete reference tool to the user and a landmark to the body of knowledge that has accumulated in this domain It also is a stimulus for new researchers working in mathematical physics or in areas using the methods originating from work in mathematical physics by providing them with focused high quality background information Editorial Board Jean Pierre Fran oise Universit Pierre et Marie Curie Paris France Gregory L Naber Drexel University Philadelphia PA USA Tsou Sheung Tsun University of Oxford UK Also available online via ScienceDirect 2006 featuring extensive browsing searching and internal cross referencing between articles in the work plus dynamic linking to journal articles and abstract databases making navigation flexible and easy *Relaxation Processes in Micromagnetics* Harry Suhl,2007-06-21 This book throws some light on poorly understood aspects of the motion of magnetization in magnetic solids particularly the effects of

dissipative mechanisms Aside from its practical aspects such as magnetic recording it addresses readers interested in the basic physics of nonlinear phenomena **The Asian Journal of Mathematics** ,2006 **Mathematical Reviews** ,2007

Theoretical Physics George Leibbrandt,2002-11-25 MRST 2002 is the 24th in an ongoing series of annual meetings that brings together an international group of researchers clustered around the Universities of Montreal McGill Rochester Syracuse and Toronto working on various aspects of theoretical high energy physics This year features discussions on a wider than usual scope of interrelated topics with invited talks ranging from the latest developments in cosmic microwave background radiation research and the solar neutrino puzzle to the Bekenstein bound in quantum gravity and the AdS CFT conjecture in string theory The main purpose is to encourage increased interaction between traditionally separate but clearly overlapping research sub disciplines This was the first conference to be hosted by the new Perimeter Institute for Theoretical Physics and was held in memory of George Leibbrandt who played a vital role in all aspects of the founding of the Institute and served on its Board of Directors **Beyond the Static** Cynthia Anne Keeler,2008

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