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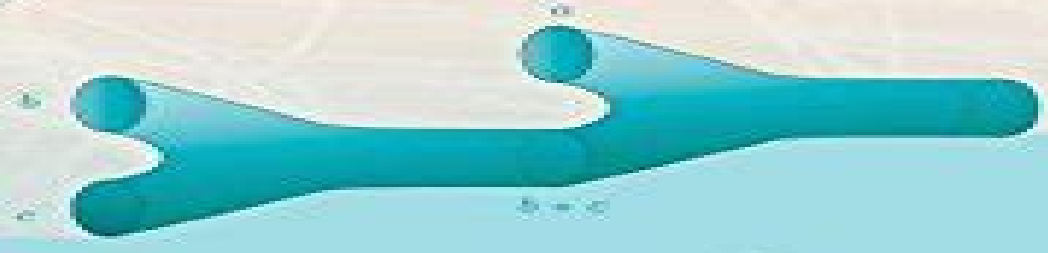
Sheldon Katz



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Enumerative Geometry And String Theory

Xujia Chen,Aleksey Zinger

Enumerative Geometry And String Theory:

Enumerative Geometry and String Theory Sheldon Katz, Perhaps the most famous example of how ideas from modern physics have revolutionized mathematics is the way string theory has led to an overhaul of enumerative geometry an area of mathematics that started in the eighteen hundreds Century old problems of enumerating geometric configurations have now been solved using new and deep mathematical techniques inspired by physics The book begins with an insightful introduction to enumerative geometry From there the goal becomes explaining the more advanced elements of enumerative algebraic geometry Along the way there are some crash courses on intermediate topics which are essential tools for the student of modern mathematics such as cohomology and other topics in geometry The physics content assumes nothing beyond a first undergraduate course The focus is on explaining the action principle in physics the idea of string theory and how these directly lead to questions in geometry Once these topics are in place the connection between physics and enumerative geometry is made with the introduction of topological quantum field theory and quantum cohomology *Enumerative Geometry and String Theory* Sheldon Katz,2006 Perhaps the most famous example of how ideas from modern physics have revolutionized mathematics is the way string theory has led to an overhaul of enumerative geometry an area of mathematics that started in the eighteen hundreds Century old problems of enumerating geometric configurations have now been solved using new and deep mathematical techniques inspired by physics The book begins with an insightful introduction to enumerative geometry From there the goal becomes explaining the more advanced elements of enumerative algebraic geometry Along the way there are some crash courses on intermediate topics which are essential tools for the student of modern mathematics such as cohomology and other topics in geometry The physics content assumes nothing beyond a first undergraduate course The focus is on explaining the action principle in physics the idea of string theory and how these directly lead to questions in geometry Once these topics are in place the connection between physics and enumerative geometry is made with the introduction of topological quantum field theory and quantum cohomology **Enumerative Invariants in Algebraic Geometry and String Theory** Marcos Marino,Michael Thaddeus,Ravi Vakil,2008-08-15 Starting in the middle of the 80s there has been a growing and fruitful interaction between algebraic geometry and certain areas of theoretical high energy physics especially the various versions of string theory Physical heuristics have provided inspiration for new mathematical definitions such as that of Gromov Witten invariants leading in turn to the solution of problems in enumerative geometry Conversely the availability of mathematically rigorous definitions and theorems has benefited the physics research by providing the required evidence in fields where experimental testing seems problematic The aim of this volume a result of the CIME Summer School held in Cetraro Italy in 2005 is to cover part of the most recent and interesting findings in this subject *Enumerative Invariants in Algebraic Geometry and String Theory* Marcos Marino,Michael Thaddeus,Ravi Vakil,2009-08-29 Starting in the middle of the 80s there has been a growing and fruitful interaction between

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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 Topological String Theory and Enumerative Geometry ,2003 In this thesis we investigate several problems which have their roots in both topological string theory and enumerative geometry In the former case underlying theories are topological field theories whereas the latter case is concerned with intersection theories on moduli spaces A permeating theme in this thesis is to examine the close interplay between these two complementary fields of study The main problems addressed are as follows In considering the Hurwitz enumeration problem of branched covers of compact connected Riemann surfaces we completely solve the problem in the case of simple Hurwitz numbers In addition utilizing the connection between Hurwitz numbers and Hodge integrals we derive a generating function for the latter on the moduli space bar M sub g 2 of 2 pointed genus g Deligne Mumford stable curves We also investigate Givental s recent conjecture regarding semisimple Frobenius structures and Gromov Witten invariants both of which are closely related to topological field theories we consider the case of a complex projective line P1 as a specific example and verify his conjecture at low genera In the last chapter we demonstrate that certain topological open string amplitudes can be computed via relative stable morphisms in the algebraic category **Enumerative Geometry and String Theory** Sheldon Katz,2006

Perhaps the most famous example of how ideas from modern physics have revolutionized mathematics is the way string theory has led to an overhaul of enumerative geometry an area of mathematics that started in the eighteen hundreds Century old problems of enumerating geometric configurations have now been solved using new and deep mathematical techniques inspired by physics The book begins with an insightful introduction to enumerative geometry From there the goal becomes explaining the more advanced elements of enumerative algebraic geometry Along the way there are some crash courses on intermediate topics which are essential tools for the student of modern mathematics such as cohomology and other topics in geometry The physics content assumes nothing beyond a first undergraduate course The focus is on explaining the action principle in physics the idea of string theory and how these directly lead to questions in geometry Once these topics are in place the connection between physics and enumerative geometry is made with the introduction of topological quantum field theory and quantum cohomology **Advances in String Theory** Eric R. Sharpe,Arthur Greenspoon,2008 Over the past decade string theory has had an increasing impact on many areas of physics high energy and hadronic physics gravitation and cosmology mathematical physics and even condensed matter physics The impact has been through many major conceptual and methodological developments in quantum field theory in the past fifteen years In addition string theory has exerted a dramatic influence on developments in contemporary mathematics including Gromov Witten theory mirror symmetry in complex and symplectic geometry and important ramifications in enumerative geometry This volume is derived from a conference of younger leading practitioners around the common theme What is string theory The talks covered major current topics both mathematical and physical related to string theory Graduate students and research mathematicians interested in string theory in mathematics and physics will be interested in this workshop BOOK JACKET Chern-Simons Theory, Matrix Models, and Topological Strings Marcos Marino,2005-09-22 In recent years the old idea that gauge theories and string theories are equivalent has been implemented and developed in various ways and there are by now various models where the string theory gauge theory correspondence is at work One of the most important examples of this correspondence relates Chern Simons theory a topological gauge theory in three dimensions which describes knot and three manifold invariants to topological string theory which is deeply related to Gromov Witten invariants This has led to some surprising relations between three manifold geometry and enumerative geometry This book gives the first coherent presentation of this and other related topics After an introduction to matrix models and Chern Simons theory the book describes in detail the topological string theories that correspond to these gauge theories and develops the mathematical implications of this duality for the enumerative geometry of Calabi Yau manifolds and knot theory It is written in a pedagogical style and will be useful reading for graduate students and researchers in both mathematics and physics willing to learn about these developments

Recent Progress in Mathematics Nam-Gyu Kang,Jaigyoung Choe,Kyeongsu Choi,Sang-hyun Kim,2022-09-30 This book consists of five chapters presenting problems of current research in mathematics with its history and development current

state and possible future direction Four of the chapters are expository in nature while one is based more directly on research All deal with important areas of mathematics however such as algebraic geometry topology partial differential equations Riemannian geometry and harmonic analysis This book is addressed to researchers who are interested in those subject areas Young Hoon Kiem discusses classical enumerative geometry before string theory and improvements after string theory as well as some recent advances in quantum singularity theory Donaldson Thomas theory for Calabi Yau 4 folds and Vafa Witten invariants Dongho Chae discusses the finite time singularity problem for three dimensional incompressible Euler equations He presents Kato s classical local well posedness results Beale Kato Majda s blow up criterion and recent studies on the singularity problem for the 2D Boussinesq equations Simon Brendle discusses recent developments that have led to a complete classification of all the singularity models in a three dimensional Riemannian manifold He gives an alternative proof of the classification of noncollapsed steady gradient Ricci solitons in dimension 3 Hyeonbae Kang reviews some of the developments in the Neumann Poincare operator NPO His topics include visibility and invisibility via polarization tensors the decay rate of eigenvalues and surface localization of plasmon singular geometry and the essential spectrum analysis of stress and the structure of the elastic NPO Danny Calegari provides an explicit description of the shift locus as a complex of spaces over a contractible building He describes the pieces in terms of dynamically extended laminations and of certain explicit discriminant like affine algebraic varieties **Algebraic Aspects of Digital Communications** Tanush Shaska,Engjell Hasimaj,2009 Proceedings of the NATO Advanced Study Institute on New Challenges in Digital Communications Vlora Albania 27 April 9 May 2008 T p verso **New Spaces in Physics: Volume 2** Mathieu Anel,Gabriel Catren,2021-04-01 After the development of manifolds and algebraic varieties in the previous century mathematicians and physicists have continued to advance concepts of space This book and its companion explore various new notions of space including both formal and conceptual points of view as presented by leading experts at the New Spaces in Mathematics and Physics workshop held at the Institut Henri Poincar in 2015 This volume covers a broad range of topics in mathematical physics including noncommutative geometry supergeometry derived symplectic geometry higher geometric quantization intuitionistic quantum logic problems with the continuum description of spacetime twistor theory loop quantum gravity and geometry in string theory It is addressed primarily to mathematical physicists and mathematicians but also to historians and philosophers of these disciplines **Spin/pin-structures And Real Enumerative Geometry** Xujia Chen,Aleksey Zinger,2023-12-04 Spin Pin structures on vector bundles have long featured prominently in differential geometry in particular providing part of the foundation for the original proof of the renowned Atiyah Singer Index Theory More recently they have underpinned the symplectic topology foundations of the so called real sector of the mirror symmetry of string theory This semi expository three part monograph provides an accessible introduction to Spin and Pin structures in general demonstrates their role in the orientability considerations in symplectic topology and presents their applications in enumerative geometry Part I

contains a systematic treatment of Spin Pin structures from different topological perspectives and may be suitable for an advanced undergraduate reading seminar This leads to Part II which systematically studies orientability problems for the determinants of real Cauchy Riemann operators on vector bundles Part III introduces enumerative geometry of curves in complex projective varieties and in symplectic manifolds demonstrating some applications of the first two parts in the process Two appendices review the ech cohomology perspective on fiber bundles and Lie group covering spaces

String-Math 2014 Vincent Bouchard:,Charles Doran,Stefan Méndez-Diez,Callum Quigley,2016-06-10 The conference String Math 2014 was held from June 9 13 2014 at the University of Alberta This edition of String Math is the first to include satellite workshops String Math Summer School held from June 2 6 2014 at the University of British Columbia Calabi Yau Manifolds and their Moduli held from June 14 18 2014 at the University of Alberta and Quantum Curves and Quantum Knot Invariants held from June 16 20 2014 at the Banff International Research Station This volume presents the proceedings of the conference and satellite workshops For mathematics string theory has been a source of many significant inspirations ranging from Seiberg Witten theory in four manifolds to enumerative geometry and Gromov Witten theory in algebraic geometry to work on the Jones polynomial in knot theory to recent progress in the geometric Langlands program and the development of derived algebraic geometry and n category theory In the other direction mathematics has provided physicists with powerful tools ranging from powerful differential geometric techniques for solving or analyzing key partial differential equations to toric geometry to K theory and derived categories in D branes to the analysis of Calabi Yau manifolds and string compactifications to modular forms and other arithmetic techniques Articles in this book address many of these topics

Representation Theory, Mathematical Physics, and Integrable Systems Anton Alekseev,Edward Frenkel,Marc Rosso,Ben Webster,Milen Yakimov,2022-02-05 Over the course of his distinguished career Nicolai Reshetikhin has made a number of groundbreaking contributions in several fields including representation theory integrable systems and topology The chapters in this volume compiled on the occasion of his 60th birthday are written by distinguished mathematicians and physicists and pay tribute to his many significant and lasting achievements Covering the latest developments at the interface of noncommutative algebra differential and algebraic geometry and perspectives arising from physics this volume explores topics such as the development of new and powerful knot invariants new perspectives on enumerative geometry and string theory and the introduction of cluster algebra and categorification techniques into a broad range of areas Chapters will also cover novel applications of representation theory to random matrix theory exactly solvable models in statistical mechanics and integrable hierarchies The recent progress in the mathematical and physicals aspects of deformation quantization and tensor categories is also addressed Representation Theory Mathematical Physics and Integrable Systems will be of interest to a wide audience of mathematicians interested in these areas and the connections between them ranging from graduate students to junior mid career and senior researchers Advances in Theoretical and Mathematical Physics ,2006

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 **String Theory, Gauge Theory and Quantum Gravity** R. Dijkgraaf,Kumar Shiv Narain,S. Randjbar-Daemi,1995

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