Quantum Cohomology

Zhenbo Qin

Quantum Cohomology:

J-Holomorphic Curves and Quantum Cohomology Dusa McDuff,Dietmar Salamon,1994 J holomorphic curves revolutionized the study of symplectic geometry when Gromov first introduced them in 1985 Through quantum cohomology these curves are now linked to many of the most exciting new ideas in mathematical physics This book presents the first coherent and full account of the theory of J holomorphic curves the details of which are presently scattered in various research papers The first half of the book is an expository account of the field explaining the main technical aspects McDuff and Salamon give complete proofs of Gromov s compactness theorem for spheres and of the existence of the Gromov Witten invariants The second half of the book focuses on the definition of quantum cohomology The authors establish that the quantum multiplication exists and is associative on appropriate manifolds They then describe the Givental Kim calculation of the quantum cohomology of flag manifolds leading to quantum Chern classes and Witten s calculation for Grassmanians which relates to the Verlinde algebra The Dubrovin connection Gromov Witten potential on quantum cohomology and curve counting formulas are also discussed **An Invitation to Quantum Cohomology** Joachim Kock,Israel Vainsencher,2007-12-27 This book is an elementary introduction to some ideas and techniques that have revolutionized enumerative geometry stable maps and quantum cohomology A striking demonstration of the potential of these techniques is provided by Kont vich s famous formula which solves a long standing question How many plane rational curves of degree d pass through 3d 1 given points in general position The formula expresses the number of curves for a given degree in terms of the numbers for lower degrees A single initial datum is required for the recursion namely the case d I which simply amounts to the fact that through two points there is but one line Assuming the existence of the Kontsevich spaces of stable maps and a few of their basic properties we present a complete proof of the formula and use the formula as a red thread in our Invitation to Quantum Cohomology For more information about the mathematical content see the Introduction The canonical reference for this topic is the already classical Notes on Stable Maps and Quantum Cohomology by Fulton and Pandharipande 29 cited henceforth as FP NOTES We have traded greater generality for the sake of introducing some simplifications We have also chosen not to include the technical details of the construction of the moduli space favoring the exposition with many examples and heuristic discussions **Quantum Cohomology** K. Behrend,C. Gomez,V. Tarasov,G. Tian,2002-03-25 The book gathers the lectures given at the C I M E summer school Quantum Cohomology held in Cetraro Italy from June 30th to July 8th 1997 The lectures and the subsequent updating cover a large spectrum of the subject on the field from the algebro geometric point of view to the symplectic approach including recent developments of string branes theories and q hypergeometric functions **Hilbert Schemes of Points and Infinite Dimensional Lie Algebras** Zhenbo Qin,2018-02-26 Hilbert schemes which parametrize subschemes in algebraic varieties have been extensively studied in algebraic geometry for the last 50 years The most interesting class of Hilbert schemes are schemes of collections of points zero dimensional

subschemes in a smooth algebraic surface Schemes turn out to be closely related to many areas of mathematics such as algebraic combinatorics integrable systems representation theory and mathematical physics among others This book surveys recent developments of the theory of Hilbert schemes of points on complex surfaces and its interplay with infinite dimensional Lie algebras It starts with the basics of Hilbert schemes of points and presents in detail an example of Hilbert schemes of points on the projective plane Then the author turns to the study of cohomology of including the construction of the action of infinite dimensional Lie algebras on this cohomology the ring structure of cohomology equivariant cohomology of and the Gromov Witten correspondence The last part of the book presents results about quantum cohomology of and related questions The book is of interest to graduate students and researchers in algebraic geometry representation theory combinatorics topology number theory and theoretical physics   *Frobenius Manifolds, Quantum Cohomology, and Moduli Spaces* I␣U␣. I. Manin,1999 This is the first monograph dedicated to the systematic exposition of the whole variety of topics related to quantum cohomology The subject first originated in theoretical physics quantum string theory and has continued to develop extensively over the last decade The author s approach to quantum cohomology is based on the notion of the Frobenius manifold The first part of the book is devoted to this notion and its extensive interconnections with algebraic formalism of operads differential equations perturbations and geometry In the second part of the book the author describes the construction of quantum cohomology and reviews the algebraic geometry mechanisms involved in this construction intersection and deformation theory of Deligne Artin and Mumford stacks Yuri Manin is currently the director of the Max Planck Institut f r Mathematik in Bonn Germany He has authored and coauthored 10 monographs and almost 200 research articles in algebraic geometry number theory mathematical physics history of culture and psycholinguistics Manin s books such as Cubic Forms Algebra Geometry and Arithmetic 1974 A Course in Mathematical Logic 1977 Gauge Field Theory and Complex Geometry 1988 Elementary Particles Mathematics Physics and Philosophy 1989 with I Yu Kobzarev Topics in Non commutative Geometry 1991 and Methods of Homological Algebra 1996 with S I Gelfand secured for him solid recognition as an excellent expositor Undoubtedly the present book will serve mathematicians for many years to come   **An Invitation to Quantum Cohomology** Joachim Kock,Israel Vainsencher,2006-10-24 Elementary introduction to stable maps and quantum cohomology presents the problem of counting rational plane curves Viewpoint is mostly that of enumerative geometry Emphasis is on examples heuristic discussions and simple applications to best convey the intuition behind the subject Ideal for self study for a mini course in quantum cohomology or as a special topics text in a standard course in intersection theory   *From Quantum Cohomology to Integrable Systems* Martin A. Guest,2008-03-13 Quantum cohomology has its origins in symplectic geometry and algebraic geometry but is deeply related to differential equations and integrable systems This text explains what is behind the extraordinary success of quantum cohomology leading to its connections with many existing areas of mathematics as well as its appearance in new areas such as mirror symmetry Certain kinds of differential equations

or D modules provide the key links between quantum cohomology and traditional mathematics these links are the main focus of the book and quantum cohomology and other integrable PDEs such as the KdV equation and the harmonic map equation are discussed within this unified framework Aimed at graduate students in mathematics who want to learn about quantum cohomology in a broad context and theoretical physicists who are interested in the mathematical setting the text assumes basic familiarity with differential equations and cohomology *Equivariant Quantum Cohomology of Homogeneous Spaces* Constantin Leonardo Mihalcea,2005 *Frobenius Manifolds* Claus Hertling,Matilde Marcolli,2012-12-06 Quantum cohomology the theory of Frobenius manifolds and the relations to integrable systems are flourishing areas since the early 90 s An activity was organized at the Max Planck Institute for Mathematics in Bonn with the purpose of bringing together the main experts in these areas This volume originates from this activity and presents the state of the art in the subject

Quantum cohomology at the Mittag-Leffler Institute Paolo Aluffi,1998-10-01 These are transcripts of notes taken at some of the lectures given at the Mittag Leffler Institute during the first semester of the year 1996 97 on Enumerative geometry and its interaction with theoretical physics The first part of this collection consists of notes from talks on the basics of quantum cohomology the second part treats more advanced topics in quantum cohomology the third part consists of background material and related topics an appendix gives a description of Kresch s C program Farsta for quantum cohomology computations These notes are meant as a series of snapshots of quantum cohomology as seen by the speakers at the time of their lectures The reader should bear in mind that quantum cohomology is a growing and rapidly changing field Many of the writeups have been left in the form of the original talks which were usually more concerned with giving motivations and a point of view rather than conveying detailed proofs or attempting to survey the considerably extensive literature on the subject **Quantum Groups and Quantum Cohomology** Davesh Maulik,Andrei Okounkov,2019 The Legacy of Niels Henrik Abel Olav Arnfinn Laudal,Ragni Piene,2011-06-28 This book contains a series of research papers on subjects related to the work of Niels Henrik Abel written by some of the foremost specialists in their fields Some of the authors have been specifically invited to present papers discussing the influence of Abel in a mathematical historical context Others have submitted papers presented at the Abel Bicentennial Conference Oslo June 3 8 2002 The idea behind the book has been to produce a text covering a substantial part of the legacy of Abel as perceived at the beginning of the 21st century It is accompanied by a CD ROM with a large amount of information related to Niels Henrik Abel such as on the Abel Centennial in 1902 and the Abel Bicentennial Conference in 2002 the launching of the Abel Prize Abel monuments and stamps banknotes coins etc issued in honour of Niels Henrik Abel **Mirror Symmetry and Algebraic Geometry** David A. Cox,Sheldon Katz,1999 Mirror symmetry began when theoretical physicists made some astonishing predictions about rational curves on quintic hypersurfaces in four dimensional projective space Understanding the mathematics behind these predictions has been a substantial challenge This book is the first completely comprehensive monograph on mirror symmetry

covering the original observations by the physicists through the most recent progress made to date Subjects discussed include toric varieties Hodge theory Kahler geometry moduli of stable maps Calabi Yau manifolds quantum cohomology Gromov Witten invariants and the mirror theorem This title features numerous examples worked out in detail an appendix on mathematical physics an exposition of the algebraic theory of Gromov Witten invariants and quantum cohomology and a proof of the mirror theorem for the quintic threefold **Northern California Symplectic Geometry Seminar** Y. Eliashberg,1999 The 12 papers are from various meeting of the seminar which has met regularly since 1989 They discuss the quantization of symplectic orbitfolds and group actions Hamiltonian dynamical systems without period orbits the stabilization of symplectic inequalities and applications Engel deformations and contact structures quantum products for mapping tori and the Atiya Floer conjecture the cohomology rings of Hamiltonian T spaces symmetric spaces Kahler geometry and Hamiltonian dynamics the mirror formula for quintic threefolds the virtual moduli cycle Floer homology Novikov rings and complete intersections surgery quantum cohomology and birational geometry and group symplectic automorphisms They are not indexed Annotation copyrighted by Book News Inc Portland OR **J-holomorphic Curves and Symplectic Topology** Dusa McDuff,Dietmar Salamon,2025-01-03 The theory of J holomorphic curves has been of great importance since its introduction by Gromov in 1985 In mathematics its applications include many key results in symplectic topology It was also one of the main inspirations for the creation of Floer homology In mathematical physics it provides a natural context in which to define Gromov Witten invariants and quantum cohomology two important ingredients of the mirror symmetry conjecture The main goal of this book is to establish the fundamental theorems of the subject in full and rigorous detail In particular the book contains complete proofs of Gromov s compactness theorem for spheres of the gluing theorem for spheres and of the associativity of quantum multiplication in the semipositive case The book can also serve as an introduction to current work in symplectic topology there are two long chapters on applications one concentrating on classical results in symplectic topology and the other concerned with quantum cohomology The last chapter sketches some recent developments in Floer theory The five appendices of the book provide necessary background related to the classical theory of linear elliptic operators Fredholm theory Sobolev spaces as well as a discussion of the moduli space of genus zero stable curves and a proof of the positivity of intersections of J holomorphic curves in four dimensional manifolds The second edition clarifies various arguments corrects several mistakes in the first edition includes some additional results in Chapter 10 and Appendices C and D and updates the references to recent developments Arithmetic and Geometry Around Quantization Özgür Ceyhan,Yu. I. Manin,Matilde Marcolli,2010-01-12 This volume comprises both research and survey articles originating from the conference on Arithmetic and Geometry around Quantization held in Istanbul in 2006 A wide range of topics related to quantization are covered thus aiming to give a glimpse of a broad subject in very different perspectives **Integrable Systems, Geometry, and Topology** Chuu-lian Terng,2006 The articles in this volume are based on lectures from a program on integrable systems

and differential geometry held at Taiwan s National Center for Theoretical Sciences As is well known for many soliton equations the solutions have interpretations as differential geometric objects and thereby techniques of soliton equations have been successfully applied to the study of geometric problems The article by Burstall gives a beautiful exposition on isothermic surfaces and theirrelations to integrable systems and the two articles by Guest give an introduction to quantum cohomology carry out explicit computations of the quantum cohomology of flag manifolds and Hirzebruch surfaces and give a survey of Givental s quantum differential equations The article by Heintze Liu and Olmos is on the theory of isoparametric submanifolds in an arbitrary Riemannian manifold which is related to the n wave equation when the ambient manifold is Euclidean Mukai Hidano and Ohnita present a survey on the moduli space of Yang Mills Higgs equations on Riemann surfaces The article by Terng and Uhlenbeck explains the gauge equivalence of the matrix non linear Schr dinger equation the Schr dinger flow on Grassmanian and the Heisenberg Feromagnetic model The bookprovides an introduction to integrable systems and their relation to differential geometry It is suitable for advanced graduate students and research mathematicians Information for our distributors Titles in this series are copublished with International Press Cambridge MA

Integrability, Quantization, and Geometry: I. Integrable Systems Sergey Novikov,Igor Krichever,Oleg Ogievetsky,Senya Shlosman,2021-04-12 This book is a collection of articles written in memory of Boris Dubrovin 1950 2019 The authors express their admiration for his remarkable personality and for the contributions he made to mathematical physics For many of the authors Dubrovin was a friend colleague inspiring mentor and teacher The contributions to this collection of papers are split into two parts Integrable Systems and Quantum Theories and Algebraic Geometry reflecting the areas of main scientific interests of Dubrovin Chronologically these interests may be divided into several parts integrable systems integrable systems of hydrodynamic type WDVV equations Frobenius manifolds isomonodromy equations flat connections and quantum cohomology The articles included in the first part are more or less directly devoted to these areas primarily with the first three listed above The second part contains articles on quantum theories and algebraic geometry and is less directly connected with Dubrovin s early interests **Integrable Systems, Topology, and Physics** Martin A. Guest,Reiko Miyaoka,Yoshihiro Ohnita,2002 Ideas and techniques from the theory of integrable systems are playing an increasingly important role in geometry Thanks to the development of tools from Lie theory algebraic geometry symplectic geometry and topology classical problems are investigated more systematically New problems are also arising in mathematical physics A major international conference was held at the University of Tokyo in July 2000 It brought together scientists in all of the areas influenced by integrable systems This book is the second of three collections of expository and research articles This volume focuses on topology and physics The role of zero curvature equations outside of the traditional context of differential geometry has been recognized relatively recently but it has been an extraordinarily productive one and most of the articles in this volume make some reference to it Symplectic geometry Floer homology twistor theory quantum cohomology and the

structure of special equations of mathematical physics such as the Toda field equations all of these areas have gained from the integrable systems point of view and contributed to it Many of the articles in this volume are written by prominent researchers and will serve as introductions to the topics It is intended for graduate students and researchers interested in integrable systems and their relations to differential geometry topology algebraic geometry and physics The first volume from this conference also available from the AMS is Differential Geometry and Integrable Systems Volume 308 CONM 308 in the Contemporary Mathematics series The forthcoming third volume will be published by the Mathematical Society of Japan and will be available outside of Japan from the AMS in the Advanced Studies in Pure Mathematics series   European Women in Mathematics Emilia Mezzetti,Sylvie Paycha,2003 This volume can be divided into two parts a purely mathematical part with contributions on finance mathematics interactions between geometry and physics and different areas of mathematics another part on the popularization of mathematics and the situation of women in mathematics

Reviewing **Quantum Cohomology**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Quantum Cohomology**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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