

# Frobenius Manifolds, Quantum Cohomology, and Moduli Spaces

Yuri I. Manin



# Frobenius Manifolds Quantum Cohomology And Moduli Spaces

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## **Frobenius Manifolds Quantum Cohomology And Moduli Spaces:**

**Frobenius Manifolds, Quantum Cohomology, and Moduli Spaces** 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 für 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

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**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

**Frobenius Manifolds and Moduli Spaces for Singularities** Claus Hertling, 2002-07-25 This book presents the theory of Frobenius manifolds as well as all the necessary tools and several applications

**The Geometry of Moduli Spaces of Pointed Curves, the Tensor Product in the Theory of Frobenius Manifolds and the Explicit Künneth Formula in Quantum Cohomology** Ralph M.

Kaufmann, 1998

**Geometry and Quantization of Moduli Spaces** Vladimir Fock, Andrey Marshakov, Florent Schaffhauser, Constantin Teleman, Richard Wentworth, 2016-12-25 This volume is based on four advanced courses held at the

Centre de Recerca Matemàtica CRM Barcelona It presents both background information and recent developments on selected topics that are experiencing extraordinary growth within the broad research area of geometry and quantization of moduli spaces The lectures focus on the geometry of moduli spaces which are mostly associated to compact Riemann surfaces and are presented from both classical and quantum perspectives **New Developments in Singularity Theory** Dirk

Siersma, Charles Wall, V. Zakalyukin, 2001-06-30 Singularities arise naturally in a huge number of different areas of mathematics and science As a consequence singularity theory lies at the crossroads of paths that connect many of the most important areas of applications of mathematics with some of its most abstract regions The main goal in most problems of singularity theory is to understand the dependence of some objects of analysis geometry physics or other science functions varieties mappings vector or tensor fields differential equations models etc on parameters The articles collected here can be grouped under three headings A Singularities of real maps B Singular complex variables and C Singularities of homomorphic maps *The Breadth of Symplectic and Poisson Geometry* Jerrold E. Marsden, Tudor S. Ratiu, 2007-07-03 The invited papers in this volume are written in honor of Alan Weinstein one of the world's foremost geometers Contributions cover a broad range of topics in symplectic and differential geometry Lie theory mechanics and related fields Intended for graduate students and working mathematicians this text is a distillation of prominent research and an indication of future trends in geometry mechanics and mathematical physics

**Algebra, Arithmetic, and Geometry** Yuri Tschinkel, Yuri Zarhin, 2010-08-05 *EM* Algebra Arithmetic and Geometry In Honor of Yu I Manin *EM* consists of invited expository and research articles on new developments arising from Manin's outstanding contributions to mathematics **B-Model**

**Gromov-Witten Theory** Emily Clader, Yongbin Ruan, 2019-04-08 This book collects various perspectives contributed by both mathematicians and physicists on the B model and its role in mirror symmetry Mirror symmetry is an active topic of research in both the mathematics and physics communities but among mathematicians the A model half of the story remains much better understood than the B model This book aims to address that imbalance It begins with an overview of several methods by which mirrors have been constructed and from there gives a thorough account of the BCOV B model theory from a physical perspective this includes the appearance of such phenomena as the holomorphic anomaly equation and connections to number theory via modularity Following a mathematical exposition of the subject of quantization the remainder of the book is devoted to the B model from a mathematician's point of view including such topics as polyvector fields and primitive forms Givental's ancestor potential and integrable systems *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

**Large Networks and Graph Limits** László Lovász, 2012 Recently it became apparent that a large number of the most interesting structures and phenomena of the world can be described by networks To develop a mathematical theory of very large networks is an important challenge This book describes one recent approach to this theory the limit theory of graphs which has emerged over the last decade The theory has rich connections with other approaches to the study of large networks such as property testing in computer science and regularity partition in graph theory It has several applications in extremal graph theory including the exact formulations and partial answers to very general questions such as which problems in extremal graph theory are decidable It also has less obvious connections with other parts of mathematics classical and non classical like probability theory measure theory tensor algebras and semidefinite optimization This book explains many of these connections first at an informal level to emphasize the need to apply more advanced mathematical methods and then gives an exact development of the theory of the algebraic theory of graph homomorphisms and of the analytic theory of graph limits This is an amazing book readable deep and lively It sets out this emerging area makes connections between old classical graph theory and graph limits and charts the course of the future Persi Diaconis Stanford University This book is a comprehensive study of the active topic of graph limits and an updated account of its present status It is a beautiful volume written by an outstanding mathematician who is also a great expositor Noga Alon Tel Aviv University Israel Modern combinatorics is by no means an isolated subject in mathematics but has many rich and interesting connections to almost every area of mathematics and computer science The research presented in Lovasz's book exemplifies this phenomenon This book presents a wonderful opportunity for a student in combinatorics to explore other fields of mathematics or conversely for experts in other areas of mathematics to become acquainted with some aspects of graph theory Terence Tao University of California Los Angeles CA Laszlo Lovasz has written an admirable treatise on the exciting new theory of graph limits and graph homomorphisms an area of great importance in the study of large networks It is an authoritative masterful text that reflects Lovasz's position as the main architect of this rapidly developing theory The book is a must for combinatorialists network theorists and theoretical computer scientists alike Bela Bollobas Cambridge University UK

**Opera de Cribro** John B. Friedlander, Henryk Iwaniec, 2010-06-22 This is a true masterpiece that will prove to be indispensable to the serious researcher for many years to come Enrico Bombieri Institute for Advanced Study This is a truly comprehensive account of sieves and their applications by two of the world's greatest authorities Beginners will find a thorough introduction to the

subject with plenty of helpful motivation The more practised reader will appreciate the authors insights into some of the more mysterious parts of the theory as well as the wealth of new examples Roger Heath Brown University of Oxford Fellow of Royal Society This is a comprehensive and up to date treatment of sieve methods The theory of the sieve is developed thoroughly with complete and accessible proofs of the basic theorems Included is a wide range of applications both to traditional questions such as those concerning primes and to areas previously unexplored by sieve methods such as elliptic curves points on cubic surfaces and quantum ergodicity New proofs are given also of some of the central theorems of analytic number theory these proofs emphasize and take advantage of the applicability of sieve ideas The book contains numerous comments which provide the reader with insight into the workings of the subject both as to what the sieve can do and what it cannot do The authors reveal recent developements by which the parity barrier can be breached exposing golden nuggets of the subject previously inaccessible The variety in the topics covered and in the levels of difficulty encountered makes this a work of value to novices and experts alike both as an educational tool and a basic reference

Complex Geometry Daniel Huybrechts, 2005 Easily accessible Includes recent developments Assumes very little knowledge of differentiable manifolds and functional analysis Particular emphasis on topics related to mirror symmetry SUSY Kaehler Einstein metrics Tian

Todorov lemma *Geometry of Differential Equations* A. G. Khovanskiĭ, Aleksandr Nikolaevich Varchenko, V. A. Vasil'ev, 1998 This volume contains articles written by V I Arnold s colleagues on the occasion of his 60th birthday The articles are mostly devoted to various aspects of geometry of differential equations and relations to global analysis and Hamiltonian mechanics

*Attractors for Equations of Mathematical Physics* Vladimir V. Chepyzhov, M. I. Vishik, 2002 One of the major problems in the study of evolution equations of mathematical physics is the investigation of the behavior of the solutions to these equations when time is large or tends to infinity The related important questions concern the stability of solutions or the character of the instability if a solution is unstable In the last few decades considerable progress in this area has been achieved in the study of autonomous evolution partial differential equations For a number of basic evolution equations of mathematical physics it was shown that the long time behavior of their solutions can be characterized by a very important notion of a global attractor of the equation In this book the authors study new problems related to the theory of infinite dimensional dynamical systems that were intensively developed during the last 20 years They construct the attractors and study their properties for various non autonomous equations of mathematical physics the 2D and 3D Navier Stokes systems reaction diffusion systems dissipative wave equations the complex Ginzburg Landau equation and others Since as it is shown the attractors usually have infinite dimension the research is focused on the Kolmogorov varepsilon entropy of attractors Upper estimates for the varepsilon entropy of uniform attractors of non autonomous equations in terms of varepsilon entropy of time dependent coefficients are proved Also the authors construct attractors for those equations of mathematical physics for which the solution of the corresponding Cauchy problem is not unique or the uniqueness is not proved The theory of the

trajectory attractors for these equations is developed which is later used to construct global attractors for equations without uniqueness The method of trajectory attractors is applied to the study of finite dimensional approximations of attractors The perturbation theory for trajectory and global attractors is developed and used in the study of the attractors of equations with terms rapidly oscillating with respect to spatial and time variables It is shown that the attractors of these equations are contained in a thin neighborhood of the attractor of the averaged equation The book gives systematic treatment to the theory of attractors of autonomous and non autonomous evolution equations of mathematical physics It can be used both by specialists and by those who want to get acquainted with this rapidly growing and important area of mathematics

*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

**Geometric Nonlinear Functional Analysis** Yoav Benyamini, Joram Lindenstrauss, 2000 A systematic study of geometric nonlinear functional analysis The main theme is the study of uniformly continuous and Lipschitz functions between Banach spaces This study leads to the classification of Banach spaces and of their important subsets in the uniform and Lipschitz categories

*Orthogonal Polynomials on the Unit Circle* Barry Simon, 2009-08-05 This two part book is a comprehensive overview of the theory of probability measures on the unit circle viewed especially in terms of the orthogonal polynomials defined by those measures A major theme involves the connections between the Verblunsky coefficients the coefficients of the recurrence equation for the orthogonal polynomials and the measures an analog of the spectral theory of one dimensional Schrodinger operators Among the topics discussed along the way are the asymptotics of Toeplitz determinants Szego's theorems limit theorems for the density of the zeros of orthogonal polynomials matrix representations for multiplication by  $z$

CMV matrices periodic Verblunsky coefficients from the point of view of meromorphic functions on hyperelliptic surfaces and connections between the theories of orthogonal polynomials on the unit circle and on the real line



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