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MANIFOLDS AND
MODULI SPACES FOR
SINGULARITIES**

CLAUS HERTLING



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Yu. I. Manin



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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

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

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

Singularities, Mirror Symmetry, and the Gauged Linear Sigma Model Tyler J. Jarvis, Nathan Priddis, 2021-02-26 This volume contains the proceedings of the workshop Crossing the Walls in Enumerative Geometry held in May 2018 at Snowbird Utah It features a collection of both expository and research articles about mirror symmetry quantized singularity theory FJRW theory and the gauged linear sigma model Most of the expository works are based on introductory lecture series given at the workshop and provide an approachable introduction for graduate students to some fundamental topics in mirror symmetry and singularity theory including quasimaps localization the gauged linear sigma model GLSM virtual classes cosection localization p fields and Saito's primitive forms These articles help readers bridge the gap from the standard graduate curriculum in algebraic geometry to exciting cutting edge research in the field The volume also contains several research articles by leading researchers showcasing new developments in the field

Singularities and Computer Algebra Wolfram Decker, Gerhard Pfister, Mathias Schulze, 2017-03-29 This book arose from a conference on Singularities and Computer Algebra which was held at the Pfalz

Akademie Lambrecht in June 2015 in honor of Gert Martin Greuel's 70th birthday. This unique volume presents a collection of recent original research by some of the leading figures in singularity theory on a broad range of topics including topological and algebraic aspects, classification problems, deformation theory, and resolution of singularities. At the same time, the articles highlight a variety of techniques ranging from theoretical methods to practical tools from computer algebra. Greuel himself made major contributions to the development of both singularity theory and computer algebra. With Gerhard Pfister and Hans Schönemann, he developed the computer algebra system SINGULAR, which has since become the computational tool of choice for many singularity theorists. The book addresses researchers whose work involves singularity theory and computer algebra from the PhD to expert level. Singularities In Geometry And Topology - Proceedings Of The Trieste Singularity Summer School And Workshop Jean-paul Brasselet, James Damon, Dung Trang Le, Mutsuo Oka, 2007-01-16.

Singularity theory appears in numerous branches of mathematics as well as in many emerging areas such as robotics, control theory, imaging, and various evolving areas in physics. The purpose of this proceedings volume is to cover recent developments in singularity theory and to introduce young researchers from developing countries to singularities in geometry and topology. The contributions discuss singularities in both complex and real geometry. As such, they provide a natural continuation of the previous school on singularities held at ICTP 1991, which is recognized as having had a major influence in the field. **Quantum Field Theory and Manifold Invariants** Daniel S. Freed, Sergei Gukov, Ciprian Manolescu, Constantin Teleman, Ulrike Tillmann, 2021-12-02.

This volume contains lectures from the Graduate Summer School Quantum Field Theory and Manifold Invariants held at Park City Mathematics Institute 2019. The lectures span topics in topology, global analysis, and physics, and they range from introductory to cutting edge. Topics treated include mathematical gauge theory, anti-self-dual equations, Seiberg-Witten equations, Higgs bundles, classical and categorified knot invariants, Khovanov homology, Heegaard Floer homology, instanton Floer homology, invertible topological field theory, BPS states, and spectral networks. This collection presents a rich blend of geometry and topology with some theoretical physics thrown in as well, and so provides a snapshot of a vibrant and fast-moving field. Graduate students with basic preparation in topology and geometry can use this volume to learn advanced background material before being brought to the frontiers of current developments. Seasoned researchers will also benefit from the systematic presentation of exciting new advances by leaders in their fields. Singularities in Geometry and Topology Jean-Paul Brasselet, 2007.

Singularity theory appears in numerous branches of mathematics as well as in many emerging areas such as robotics, control theory, imaging, and various evolving areas in physics. The purpose of this proceedings volume is to cover recent developments in singularity theory and to introduce young researchers from developing countries to singularities in geometry and topology. The contributions discuss singularities in both complex and real geometry. As such, they provide a natural continuation of the previous school on singularities held at ICTP 1991, which is recognized as having had a major influence in the field. Singularities in Geometry, Topology, Foliations and Dynamics José

Luis Cisneros-Molina, Dũng Tráng Lê, Mutsuo Oka, Jawad Snoussi, 2017-02-13 This book features state of the art research on singularities in geometry topology foliations and dynamics and provides an overview of the current state of singularity theory in these settings Singularity theory is at the crossroad of various branches of mathematics and science in general In recent years there have been remarkable developments both in the theory itself and in its relations with other areas The contributions in this volume originate from the Workshop on Singularities in Geometry Topology Foliations and Dynamics held in Merida Mexico in December 2014 in celebration of Jos Seade's 60th Birthday It is intended for researchers and graduate students interested in singularity theory and its impact on other fields **Isomonodromic Deformations and Frobenius Manifolds**

Claude Sabbah, 2007-12-20 Based on a series of graduate lectures this book provides an introduction to algebraic geometric methods in the theory of complex linear differential equations Starting from basic notions in complex algebraic geometry it develops some of the classical problems of linear differential equations It ends with applications to recent research questions related to mirror symmetry The fundamental tool used is that of a vector bundle with connection The book includes complete proofs and applications to recent research questions Aimed at graduate students and researchers the book assumes some familiarity with basic complex algebraic geometry **Quantum Field Theory I: Basics in Mathematics and Physics**

Eberhard Zeidler, 2007-04-18 This is the first volume of a modern introduction to quantum field theory which addresses both mathematicians and physicists at levels ranging from advanced undergraduate students to professional scientists The book bridges the acknowledged gap between the different languages used by mathematicians and physicists For students of mathematics the author shows that detailed knowledge of the physical background helps to motivate the mathematical subjects and to discover interesting interrelationships between quite different mathematical topics For students of physics fairly advanced mathematics is presented which goes beyond the usual curriculum in physics Polynomials and Vanishing Cycles

Mihai Tibăr, 2007-05-17 A systematic geometro topological approach to vanishing cycles appearing in non proper fibrations is proposed in this tract Lefschetz theory complex Morse theory and singularities of hypersurfaces are presented in detail leading to the latest research on topics such as the topology of singularities of meromorphic functions and non generic Lefschetz pencils **Poincaré Duality Algebras, Macaulay's Dual Systems, and Steenrod Operations**

Dagmar M. Meyer, Larry Smith, 2005-08-18 A monograph demonstrating remarkable and unexpected interdisciplinary connections in the areas of commutative algebra invariant theory and algebraic topology **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 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 **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

Projective Differential Geometry Old and New V. Ovsienko, S. Tabachnikov, 2004-12-13 Ideas of projective geometry keep reappearing in seemingly unrelated fields of mathematics The authors main goal in this 2005 book is to emphasize connections between classical projective differential geometry and contemporary mathematics and mathematical physics They also give results and proofs of classic theorems Exercises play a prominent role historical and cultural comments set the basic notions in a broader context The book opens by discussing the Schwarzian derivative and its connection to the Virasoro algebra One dimensional projective differential geometry features strongly Related topics include differential operators the cohomology of the group of diffeomorphisms of the circle and the classical four vertex theorem The classical theory of

projective hypersurfaces is surveyed and related to some very recent results and conjectures A final chapter considers various versions of multi dimensional Schwarzian derivative In sum here is a rapid route for graduate students and researchers to the frontiers of current research in this evergreen subject The Lévy Laplacian M. N. Feller,2005-11-24 The L vy Laplacian is an infinite dimensional generalization of the well known classical Laplacian The theory has become well developed in recent years and this book was the first systematic treatment of the L vy Laplace operator The book describes the infinite dimensional analogues of finite dimensional results and more especially those features which appear only in the generalized context It develops a theory of operators generated by the L vy Laplacian and the symmetrized L vy Laplacian as well as a theory of linear and nonlinear equations involving it There are many problems leading to equations with L vy Laplacians and to L vy Laplace operators for example superconductivity theory the theory of control systems the Gauss random field theory and the Yang Mills equation The book is complemented by an exhaustive bibliography The result is a work that will be valued by those working in functional analysis partial differential equations and probability theory

Metaphysics and Transcendence Arthur Gibson,2004-05-05 Metaphysics and Transcendence takes up this story for the future Arthur Gibson presents a new metaphysics with a genealogy based on counter intuition and locates counter intuition and complexity at the foundations of truth Having devised fresh concepts on the basis of the new frontiers of science and philosophy the author presents original explanations of transcendence arguing that just as we need revolutionary and original ways of depicting the physical world so it is with such topics as God miracles the resurrection the source and identity of consciousness and reason itself

Real And Complex Singularities David Mond,Marcelo Saia,2019-07-17 This text offers a selection of papers on singularity theory presented at the Sixth Workshop on Real and Complex Singularities held at ICMC USP Brazil It should help students and specialists to understand results that illustrate the connections between singularity theory and related fields The authors discuss irreducible plane curve singularities openness and multitransversality the distribution Afs and the real asymptotic spectrum deformations of boundary singularities and non crystallographic coxeter groups transversal Whitney topology and singularities of Haefliger foliations the topology of hypersurface singularities polar multiplicities and equisingularity of map germs from C3 to C4 and topological invariants of stable maps from a surface to the plane from a global viewpoint

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