

# **Symplectic Geometry and Mirror Symmetry**

Proceedings of the 4th KIAS Annual International Conference



**Editors**

**K. Fukaya, Y.-G. Oh, K. Ono, G. Tian**

**World Scientific**

# Symplectic Geometry Mirror Symmetry

**Lei Shi**



## **Symplectic Geometry Mirror Symmetry:**

**Symplectic Geometry and Mirror Symmetry** Kodŭng Kwahagwŏn (Korea). International Conference, 2001 In 1993 M Kontsevich proposed a conceptual framework for explaining the phenomenon of mirror symmetry Mirror symmetry had been discovered by physicists in string theory as a duality between families of three dimensional Calabi Yau manifolds Kontsevich's proposal uses Fukaya's construction of the A category of Lagrangian submanifolds on the symplectic side and the derived category of coherent sheaves on the complex side The theory of mirror symmetry was further enhanced by physicists in the language of D branes and also by Strominger Yau Zaslow in the geometric set up of special Lagrangian torus fibrations It rapidly expanded its scope across from geometry topology algebra to physics In this volume leading experts in the field explore recent developments in relation to homological mirror symmetry Floer theory D branes and Gromov Witten invariants Kontsevich Soibelman describe their solution to the mirror conjecture on the abelian variety based on the deformation theory of A categories and Ohta describes recent work on the Lagrangian intersection Floer theory by Fukaya Oh Ohta Ono which takes an important step towards a rigorous construction of the A category There follow a number of contributions on the homological mirror symmetry D branes and the Gromov Witten invariants e.g Getzler shows how the Toda conjecture follows from recent work of Givental Okounkov and Pandharipande This volume provides a timely presentation of the important developments of recent years in this rapidly growing field

**Symplectic Geometry And Mirror Symmetry - Proceedings Of The 4th Kias Annual International Conference** Kenji Fukaya, Yong Geun Oh, K Ono, Gang Tian, 2001-11-19 In 1993 M Kontsevich proposed a conceptual framework for explaining the phenomenon of mirror symmetry Mirror symmetry had been discovered by physicists in string theory as a duality between families of three dimensional Calabi Yau manifolds Kontsevich's proposal uses Fukaya's construction of the A category of Lagrangian submanifolds on the symplectic side and the derived category of coherent sheaves on the complex side The theory of mirror symmetry was further enhanced by physicists in the language of D branes and also by Strominger Yau Zaslow in the geometric set up of special Lagrangian torus fibrations It rapidly expanded its scope across from geometry topology algebra to physics In this volume leading experts in the field explore recent developments in relation to homological mirror symmetry Floer theory D branes and Gromov Witten invariants Kontsevich Soibelman describe their solution to the mirror conjecture on the abelian variety based on the deformation theory of A categories and Ohta describes recent work on the Lagrangian intersection Floer theory by Fukaya Oh Ohta Ono which takes an important step towards a rigorous construction of the A category There follow a number of contributions on the homological mirror symmetry D branes and the Gromov Witten invariants e.g Getzler shows how the Toda conjecture follows from recent work of Givental Okounkov and Pandharipande This volume provides a timely presentation of the important developments of recent years in this rapidly growing field

**Tropical Geometry and Mirror Symmetry** Mark Gross, 2011-01-20 Tropical geometry provides an explanation for the remarkable power of mirror symmetry

to connect complex and symplectic geometry The main theme of this book is the interplay between tropical geometry and mirror symmetry culminating in a description of the recent work of Gross and Siebert using log geometry to understand how the tropical world relates the A and B models in mirror symmetry The text starts with a detailed introduction to the notions of tropical curves and manifolds and then gives a thorough description of both sides of mirror symmetry for projective space bringing together material which so far can only be found scattered throughout the literature Next follows an introduction to the log geometry of Fontaine Illusie and Kato as needed for Nishinou and Siebert's proof of Mikhalkin's tropical curve counting formulas This latter proof is given in the fourth chapter The fifth chapter considers the mirror B model side giving recent results of the author showing how tropical geometry can be used to evaluate the oscillatory integrals appearing The final chapter surveys reconstruction results of the author and Siebert for integral tropical manifolds A complete version of the argument is given in two dimensions

Symplectic Geometry and Mirror Symmetry Korea Institute for Advanced Study, 0 K. Fukaya, 2001 *Mirror Symmetry IV* Eric D'Hoker, 2002 This book presents contributions of participants of a workshop held at the Centre de Recherches Mathematiques CRM University of Montreal It can be viewed as a sequel to Mirror Symmetry I 1998 Mirror Symmetry II 1996 and Mirror Symmetry III 1999 copublished by the AMS and International Press The volume presents a broad survey of many of the noteworthy developments that have taken place in string theory geometry and duality since the mid 1990s Some of the topics emphasized include the following Integrable models and supersymmetric gauge theories theory of M and D branes and noncommutative geometry duality between strings and gauge theories and elliptic genera and automorphic forms Several introductory articles present an overview of the geometric and physical aspects of mirror symmetry and of corresponding developments in symplectic geometry The book provides an efficient way for a very broad audience of mathematicians and physicists to explore the frontiers of research into this rapidly expanding area

**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

**Mirror Symmetry and Tropical Geometry** Ricardo Castaño-Bernard, Yan S. Soibelman, Ilia Zharkov, 2010 This volume contains contributions from the NSF CBMS Conference on Tropical Geometry and Mirror Symmetry which was held from December 13 17 2008 at Kansas State University in Manhattan Kansas It gives an excellent picture of numerous

connections of mirror symmetry with other areas of mathematics especially with algebraic and symplectic geometry as well as with other areas of mathematical physics The techniques and methods used by the authors of the volume are at the frontier of this very active area of research      Homological Mirror Symmetry for the Quartic Surface Paul Seidel, 2015-06-26 The author proves Kontsevich's form of the mirror symmetry conjecture for on the symplectic geometry side a quartic surface in  $\mathbb{C}$       Homological Mirror Symmetry Anton Kapustin, Maximilian Kreuzer, Karl-Georg Schlesinger, 2008-12-15 Homological Mirror Symmetry the study of dualities of certain quantum field theories in a mathematically rigorous form has developed into a flourishing subject on its own over the past years The present volume bridges a gap in the literature by providing a set of lectures and reviews that both introduce and representatively review the state of the art in the field from different perspectives With contributions by K Fukaya M Herbst K Hori M Huang A Kapustin L Katzarkov A Klemm M Kontsevich D Page S Quackenbush E Sharpe P Seidel I Smith and Y Soibelman this volume will be a reference on the topic for everyone starting to work or actively working on mathematical aspects of quantum field theory      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      Mirror Symmetry Claire Voisin, 1999 Describes recent works motivated by the discovery of the mirror symmetry phenomenon by physicists The book opens with the geometry of Calabi Yau manifolds and the ideas from quantum field theory that led to this discovery The rest of the book is devoted to the mathematical aspects of mirror symmetry No index Annotation copyrighted by Book News Inc Portland OR      **Mirror Symmetry III** Duong H. Phong, Luc Vinet, Shing-Tung Yau, 1998 This volume presents surveys from a workshop held during the theme year in geometry and topology at the Centre de recherches mathématiques CRM University of Montreal Canada The volume is in some senses a sequel to Mirror Symmetry I 1998 and Mirror Symmetry II 1996 co published by the AMS and International Press It is intended for graduate students research mathematicians and physicists working in mathematics and theoretical physics especially in algebraic or complex geometry or conformal field theory      *Mirror Symmetry* Kentaro

Hori,2003 This thorough and detailed exposition is the result of an intensive month long course sponsored by the Clay Mathematics Institute It develops mirror symmetry from both mathematical and physical perspectives The material will be particularly useful for those wishing to advance their understanding by exploring mirror symmetry at the interface of mathematics and physics This one of a kind volume offers the first comprehensive exposition on this increasingly active area of study It is carefully written by leading experts who explain the main concepts without assuming too much prerequisite knowledge The book is an excellent resource for graduate students and research mathematicians interested in mathematical and theoretical physics

The Many Facets of Geometry Nigel J. Hitchin,2010-07 This title celebrates the academic career of Professor Nigel Hitchin one of the most influential figures in the field of differential and algebraic geometry

**Mirror Symmetry I** Shing-Tung Yau,1998 Vol 1 represents a new ed of papers which were originally published in Essays on mirror manifolds 1992 supplemented by the additional volume Mirror symmetry 2 which presents papers by both physicists and mathematicians Mirror symmetry 1 the 1st volume constitutes the proceedings of the Mathematical Sciences Research Institute Workshop of 1991

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

A Twisted Fate of Polytopes: Delving into the Realm of Toric Varieties Pasquale De Marco,2025-08-15 Embark on a captivating journey into the realm of toric varieties where geometry algebra and topology intertwine to reveal hidden structures and unveil the beauty of mathematical spaces Discover the profound connections between polytopes convex shapes with lattice points and toric varieties unlocking a treasure trove of insights into the behavior of algebraic equations and the nature of space itself Delve into the intricate world of singularities where the geometry of toric varieties

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Calabi-Yau Manifolds and Related Geometries Mark Gross, Daniel Huybrechts, Dominic Joyce, 2012-12-06 This is an introduction to a very active field of research on the boundary between mathematics and physics It is aimed at graduate students and researchers in geometry and string theory Proofs or sketches are given for many important results From the reviews An excellent introduction to current research in the geometry of Calabi Yau manifolds hyper K hler manifolds exceptional holonomy and mirror symmetry This is an excellent and useful book MATHEMATICAL REVIEWS

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**Modular Forms and String Duality** Noriko Yui, Helena Verrill, and Charles F. Doran, This book is a testimony to the BIRS Workshop and it covers a wide range of topics at the interface of number theory and string theory with special emphasis on modular forms and string duality They include the recent advances as well as introductory expositions on various aspects of modular forms motives differential equations conformal field theory topological strings and Gromov Witten invariants mirror symmetry and homological mirror symmetry The contributions are roughly divided into three categories arithmetic and modular forms geometric and differential equations and physics and string theory The book is suitable for researchers working at the interface of number theory and string theory BOOK JACKET

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