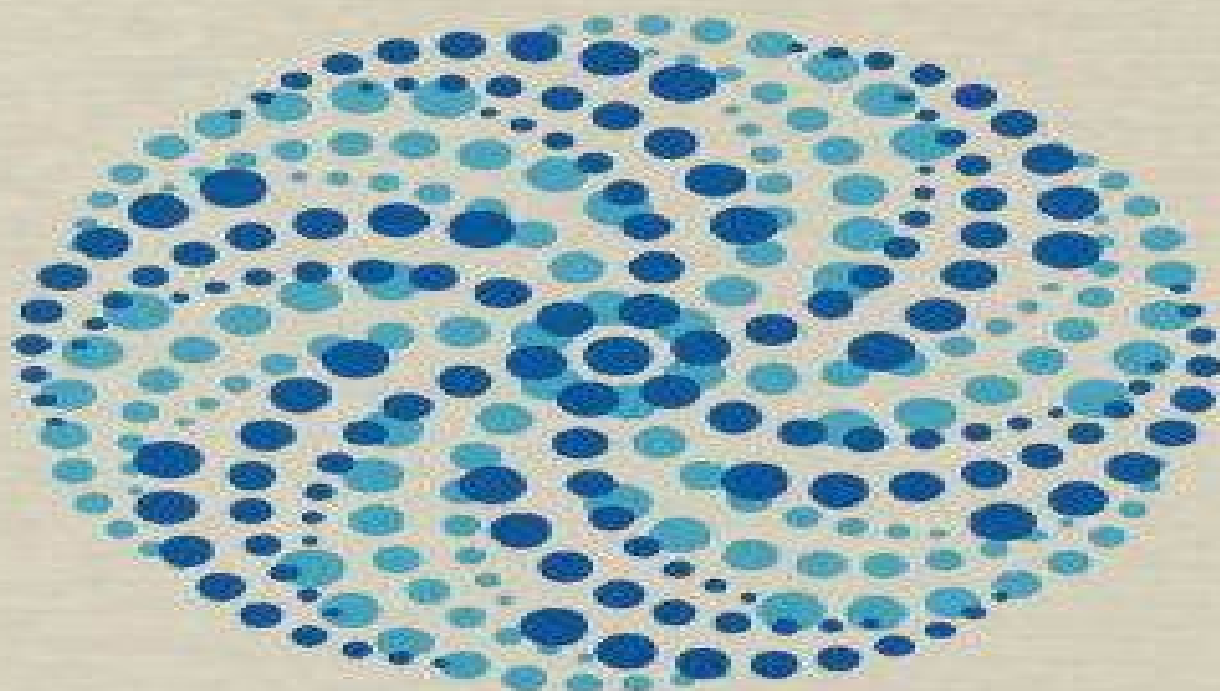


An Introduction to Extremal Kähler Metrics

极值 Kähler 度量引论

Gábor Székelyhidi



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An Introduction To Extremal Kahler Metrics Graduate Studies In Mathematics

Yanir A. Rubinstein, Bernard Shiffman



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An Introduction to Extremal Kahler Metrics Gábor Székelyhidi, 2014-06-19 A basic problem in differential geometry is to find canonical metrics on manifolds The best known example of this is the classical uniformization theorem for Riemann surfaces Extremal metrics were introduced by Calabi as an attempt at finding a higher dimensional generalization of this result in the setting of Kähler geometry This book gives an introduction to the study of extremal Kähler metrics and in particular to the conjectural picture relating the existence of extremal metrics on projective manifolds to the stability of the underlying manifold in the sense of algebraic geometry The book addresses some of the basic ideas on both the analytic and the algebraic sides of this picture An overview is given of much of the necessary background material such as basic Kähler geometry moment maps and geometric invariant theory Beyond the basic definitions and properties of extremal metrics several highlights of the theory are discussed at a level accessible to graduate students Yau's theorem on the existence of Kähler Einstein metrics the Bergman kernel expansion due to Tian Donaldson's lower bound for the Calabi energy and Arezzo Pacard's existence theorem for constant scalar curvature Kähler metrics on blow ups

Advances in Complex Geometry

Yanir A. Rubinstein, Bernard Shiffman, 2019-08-26 This volume contains contributions from speakers at the 2015 2018 joint Johns Hopkins University and University of Maryland Complex Geometry Seminar It begins with a survey article on recent developments in pluripotential theory and its applications to Kähler Einstein metrics and continues with articles devoted to various aspects of the theory of complex manifolds and functions on such manifolds

An Introduction to the Kähler-Ricci Flow Sebastien Boucksom, Philippe Eyssidieux, Vincent Guedj, 2013-10-02 This volume collects lecture notes from courses offered at several conferences and workshops and provides the first exposition in book form of the basic theory of the Kähler Ricci flow and its current state of the art While several excellent books on Kähler Einstein geometry are available there have been no such works on the Kähler Ricci flow The book will serve as a valuable resource for graduate students and researchers in complex differential geometry complex algebraic geometry and Riemannian geometry and will hopefully foster further developments in this fascinating area of research The Ricci flow was first introduced by R Hamilton in the early 1980s and is central in G Perelman's celebrated proof of the Poincaré conjecture When specialized for Kähler manifolds it becomes the Kähler Ricci flow and reduces to a scalar PDE parabolic complex Monge-Ampère equation As a spin off of his breakthrough G Perelman proved the convergence of the Kähler Ricci flow on Kähler Einstein manifolds of positive scalar curvature Fano manifolds Shortly after G Tian and J Song discovered a complex analogue of Perelman's ideas the Kähler Ricci flow is a metric embodiment of the Minimal Model Program of the underlying manifold and flips and divisorial contractions assume the role of Perelman's surgeries

The Global Solutions to a Cartan's Realization Problem Rui Loja Fernandes, Ivan

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Moduli of K-stable Varieties Giulio Codogni, Ruadhaí Dervan, Filippo

Viviani, 2019-06-27 This volume is an outcome of the workshop Moduli of K-stable Varieties which was held in Rome Italy in

2017 The content focuses on the existence problem for canonical Kähler metrics and links to the algebro geometric notion of K stability The book includes both surveys on this problem notably in the case of Fano varieties and original contributions addressing this and related problems The papers in the latter group develop the theory of K stability explore canonical metrics in the Kähler and almost Kähler settings offer new insights into the geometric significance of K stability and develop tropical aspects of the moduli space of curves the singularity theory necessary for higher dimensional moduli theory and the existence of minimal models Reflecting the advances made in the area in recent years the survey articles provide an essential overview of many of the most important findings The book is intended for all advanced graduate students and researchers who want to learn about recent developments in the theory of moduli space K stability and Kähler Einstein metrics [A Sampler of Riemann-Finsler Geometry](#) David Dai-Wai Bao, 2004-11 These expository accounts treat issues related to volume geodesics curvature and mathematical biology with instructive examples **Integrability, Quantization, and Geometry:**

II. Quantum Theories and Algebraic Geometry 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 *Existence of Extremal Kähler Metrics on Compact Complex Manifolds, and a Partial Converse to a Theorem of Lichnerowicz* Andrew David Hwang, 1993 *Differentiable Dynamical Systems* Lan Wen, 2016-07-20 This is a graduate text in differentiable dynamical systems It focuses on structural stability and hyperbolicity a topic that is central to the field Starting with the basic concepts of dynamical systems analyzing the historic systems of the Smale horseshoe Anosov toral automorphisms and the solenoid attractor the book develops the hyperbolic theory first for hyperbolic fixed points and then for general hyperbolic sets The problems of stable manifolds structural stability and shadowing property are investigated which lead to a highlight of the book the stability theorem of Smale While the content is rather standard a key objective of the book is to present a thorough treatment for some tough material that has remained an obstacle to teaching and learning the subject matter The treatment is straightforward and hence could be particularly suitable for self study Selected solutions are available electronically for instructors only Please send email to textbooks@ams.org for more information **Séminaire Bourbaki** Société mathématique de France, 2019 This 69th volume of the Bourbaki

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