

Subyoung Choi

**THE CONVEX AND CONCAVE
DECOMPOSITION OF MANIFOLDS
WITH REAL PROJECTIVE
STRUCTURES**

Convex And Concave Decomposition Of Manifolds With Real Projective Structures

Michael Harris, Steven Zucker



Convex And Concave Decomposition Of Manifolds With Real Projective Structures:

The convex and concave decomposition of manifolds with real projective structures, 1999 **The Decomposition and Classification of Radiant Affine 3-Manifolds** Suhyoung Choi, 2001 An affine manifold is a manifold with torsion free flat affine connection a geometric topologist would define it as a manifold with an atlas of charts to the affine space with affine transition functions This title is an in depth examination of the decomposition and classification of radiant affine 3 manifolds affine manifolds of the type that have a holonomy group consisting of affine transformations fixing a common fixed point **Geometry in History** S. G. Dani, Athanase Papadopoulos, 2019-10-18 This is a collection of surveys on important mathematical ideas their origin their evolution and their impact in current research The authors are mathematicians who are leading experts in their fields The book is addressed to all mathematicians from undergraduate students to senior researchers regardless of the specialty Journal of the Korean Mathematical Society, 2003

Dynamics, Geometry, Number Theory David Fisher, Dmitry Kleinbock, Gregory Soifer, 2022-02-07 This definitive synthesis of mathematician Gregory Margulis's research brings together leading experts to cover the breadth and diversity of disciplines Margulis's work touches upon This edited collection highlights the foundations and evolution of research by widely influential Fields Medalist Gregory Margulis Margulis is unusual in the degree to which his solutions to particular problems have opened new vistas of mathematics his ideas were central for example to developments that led to the recent Fields Medals of Elon Lindenstrauss and Maryam Mirzakhani Dynamics Geometry Number Theory introduces these areas their development their use in current research and the connections between them Divided into four broad sections Arithmeticity Superrigidity Normal Subgroups Discrete Subgroups Expanders Representations Spectral Theory and Homogeneous Dynamics the chapters have all been written by the foremost experts on each topic with a view to making them accessible both to graduate students and to experts in other parts of mathematics This was no simple feat Margulis's work stands out in part because of its depth but also because it brings together ideas from different areas of mathematics Few can be experts in all of these fields and this diversity of ideas can make it challenging to enter Margulis's area of research Dynamics Geometry Number Theory provides one remedy to that challenge **On Mapping Properties of the General Relativistic Constraints Operator in Weighted Function Spaces, with Applications** Piotr T. Chruściel, Erwann Delay, 2003 In this book the authors prove perturbation and gluing results for solutions of the general relativistic constraints with controlled boundary behavior or asymptotic behavior This is obtained by a study of the linearized equation in weighted spaces à la Corvino Schoen Among other methods this can be used to prove existence of non trivial asymptotically simple vacuum space times The book is suitable for graduate students and research mathematicians interested in analysis

Boundary Cohomology of Shimura Varieties, III Michael Harris, Steven Zucker, 2001 In this book the authors complete the verification of the following fact The nerve spectral sequence for the cohomology of the Borel Serre boundary of

a Shimura variety Sh is a spectral sequence of mixed Hodge de Rham structures over the field of definition of its canonical model To achieve that they develop the machinery of automorphic vector bundles on mixed Shimura varieties for the latter enter in the boundary of the toroidal compactifications of Sh and study the nerve spectral sequence for the automorphic vector bundles and the toroidal boundary They also extend the technique of averting issues of base change by taking cohomology with growth conditions They give and apply formulas for the Hodge gradation of the cohomology of both Sh and its Borel Serre boundary

Mathematical Reviews, 2006 *The Wave Diffracted by a Wedge with Mixed Boundary Conditions* Olivier Lafitte, 2002 This monograph studies the diffraction of a wave by a curved wedge on the plane in the case where each side of the wedge is characterized by a mixed boundary condition of impedance type This book is suitable for graduate students and researchers interested in partial differential equations in particular in diffraction theory and its applications to problems in physics

The Proceedings of the Conference[s] on Geometric Structures on Manifolds Suhyoung Choi, Hyuk Kim, Hynkoo Lee, 1999 Spectral Properties of Self-similar Lattices and Iteration of Rational Maps Christophe Sabot, 2003 In this text the author considers discrete Laplace operators defined on lattices based on finitely ramified self similar sets and their continuous analogs defined on the self similar sets He focuses on the spectral properties of these operators The basic example is the lattice based on the Sierpinski gasket He introduces a new renormalization map that appears to be a rational map defined on a smooth projective variety More precisely this variety is isomorphic to a product of three types of Grassmannians complex Grassmannians Lagrangian Grassmannian and orthogonal Grassmannians He relates some characteristics of the dynamics of its iterates with some characteristics of the spectrum of the operator Specifically he gives an explicit formula for the density of states in terms of the Green current of the map and he relates the indeterminacy points of the map with the so called Neumann Dirichlet eigenvalues which lead to eigenfunctions with compact support on the unbounded lattice Depending on the asymptotic degree of the map he can prove drastically different spectral properties of the operators The formalism is valid for the general class of finitely ramified self similar sets

Mémoire, 2006 Coefficient Systems and Supersingular Representations of $\mathrm{GL}_2(F)$ Vytautas Paskunas, 2004 Let F be a non Archimedean local field with the residual characteristic p The author constructs a good number of smooth irreducible overline \mathbf{F}_p representations of $\mathrm{GL}_2(F)$ which are supersingular in the sense of Barthel and Livne If \mathbf{Q}_p then results of Breuil imply that our construction gives all the supersingular representations up to the twist by an unramified quasi character The author conjectures that this is true for an arbitrary F The book is suitable for graduate students and research mathematicians interested in algebra and algebraic geometry

On Sums of Sixteen Biquadrates Jean-Marc Deshouillers, Koichi Kawada, Trevor D. Wooley, 2005 By 1939 it was known that 13 792 cannot be expressed as a sum of sixteen biquadrates folklore that there exist infinitely many natural numbers which cannot be written as sums of fifteen biquadrates Kempner and that every sufficiently large integer is a sum of sixteen biquadrates Davenport In this

memoir it is shown that every integer larger than 10 216 and not divisible by 16 can be represented as a sum of sixteen biquadrates Combined with a numerical study by Deshouillers Hennecart and Landreau this result implies that every integer larger than 13 792 is a sum of sixteen biquadrates The volume is suitable for graduate students and research mathematicians interested in number theory *Mathematical Study of the Betaplane Model* Isabelle Gallagher, Laure Saint-Raymond, 2006 The authors are interested in a model of rotating fluids describing the motion of the ocean in the equatorial zone This model is known as the Saint Venant or shallow water type system to which a rotation term is added whose amplitude is linear with respect to the latitude in particular it vanishes at the equator After a physical introduction to the model the authors describe the various waves involved and study in detail the resonances associated to those waves They then exhibit the formal limit system as the rotation becomes large obtained as usual by filtering out the waves and prove its wellposedness Finally they prove three types of convergence results a weak convergence result towards a linear geostrophic equation a strong convergence result of the filtered solutions towards the unique strong solution to the limit system and a hybrid strong convergence result of the filtered solutions towards a weak solution to the limit system In particular the authors obtain that there are no confined equatorial waves in the mean motion as the rotation becomes large **Bulletin de la Société mathématique de France**, 2006 **Strichartz Estimates for Schrödinger Equations with Variable Coefficients** Luc Robbiano, Claude Zuily, 2005 The authors prove the local in time Strichartz estimates for the full range of parameters given by the scaling unless the end point for asymptotically flat and non trapping perturbations of the flat Laplacian in \mathbb{R}^n $n \geq 2$ The main point of the proof namely the dispersion estimate is obtained in constructing a parametrix The main tool for this construction is the use of the Fourier Bros Iagolnitzer FBI transform Albanese and Picard 1-motives Luca Barbieri-Viale, V. Srinivas, 2001 This volume gives a nice summary of current work in the theory of 1 motives The authors present the following Let X be an n dimensional algebraic variety over a field of characteristic zero They describe algebraically defined Deligne 1 motives $\mathrm{Alb} X$ $\mathrm{Alb} X$ $\mathrm{Pic} X$ and $\mathrm{Pic} X$ which generalize the classical Albanese and Picard varieties of a smooth projective variety Computed are Hodge ℓ adic and De Rham realizations proving Deligne's conjecture for $H_{2n-1} H_{2n-1} H_1$ and H_1 Investigated are functoriality universality homotopical invariance and invariance under formation of projective bundles The authors compare the cohomological and homological 1 motives for normal schemes For proper schemes they obtain an Abel Jacobi map from Albanese 1 motive which is the universal regular homomorphism to semi abelian varieties By using this universal property they obtain motivic Gysin maps for projective local complete intersection morphisms The volume is suitable for advanced graduate students and researchers interested in algebraic geometry *Global Solutions for Small Nonlinear Long Range Perturbations of Two Dimensional Schrödinger Equations* Jean-Marc Delort, 2002 Here the author presents the following Let $Q_1 Q_2$ be two quadratic forms and u a local solution of the two dimensional Schrodinger equation $i \partial_t \Delta u = Q_1 u + \nabla_x u + Q_2 \bar{u} + \nabla_x \bar{u}$

u He proves that if Q_1 and Q_2 do depend on the derivatives of u and if the Cauchy datum is small enough and decaying enough at infinity the solution exists for all times The difficulty of the problem originates in the fact that the nonlinear perturbation is a long range one This means that it can be written as the product of a derivative of u and of a potential whose L^∞ space norm is not time integrable at infinity **Catalogue** American Mathematical Society, 2000

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