Self-Similarity and Multiwavelets in Higher Dimensions

Carlos A. Cabrelli

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Self Similarity And Multiwavelets In Higher Dimension

Philip L. Bowers,Kenneth Stephenson

Self Similarity And Multiwavelets In Higher Dimension:

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Infinite Dimensional Complex Symplectic Spaces William Norrie Everitt,Lawrence Markus,2004 Complex symplectic spaces are non trivial generalizations of the real symplectic spaces of classical analytical dynamics This title presents a self contained investigation of general complex symplectic spaces and their Lagrangian subspaces regardless of the finite or infinite dimensionality   A Random Tiling Model for Two Dimensional Electrostatics Mihai Ciucu,2005 Studies the correlation of holes in random lozenge i e unit rhombus tilings of the triangular lattice This book analyzes the joint correlation of these triangular holes when their complement is tiled uniformly at random by lozenges   *Time–Frequency and Time–Scale Methods* Jeffrey A. Hogan,2007-12-21 Developed in this book are several deep connections between time frequency Fourier Gabor analysis and time scale wavelet analysis emphasizing the powerful adaptive methods that emerge when separate techniques from each area are properly assembled in a larger context While researchers at the forefront of developments in time frequency and time scale analysis are well aware of the benefits of such a unified approach there remains a knowledge gap in the larger community of practitioners about the precise strengths and limitations of Fourier Gabor analysis versus wavelets This book fills that gap by presenting the interface of time frequency and time scale methods as a rich area of work   Locally Finite Root Systems Ottmar Loos,Erhard Neher,2004 We develop the basic theory of root systems R in a real vector space X which are defined in analogy to the usual finite root systems except that finiteness is replaced by local finiteness the intersection of R with every finite dimensional subspace of X is finite The main topics are Weyl groups parabolic subsets and positive systems weights and gradings   **Shock-Wave Solutions of the Einstein Equations with Perfect Fluid Sources: Existence and Consistency by a Locally Inertial Glimm Scheme** Jeff Groah,Blake Temple,2004 Demonstrates the consistency of the Einstein equations at the level of shock waves by proving the existence of shock wave solutions of the spherically symmetric Einstein equations for a perfect fluid starting from initial density and velocity profiles that are only locally of bounded total variation v_1-Periodic Homotopy Groups of $SO(n)$

Martin Bendersky,Donald M. Davis,2004 Computes the 2 primary v_1 periodic homotopy groups of the special orthogonal groups SO n the method is to calculate the Bendersky Thompson spectral sequence a K_ based unstable homotopy spectral sequence of operatorname Spin n **Kahler Spaces, Nilpotent Orbits, and Singular Reduction** Johannes Huebschmann,2004 For a stratified symplectic space a suitable concept of stratified Kahler polarization encapsulates Kahler polarizations on the strata and the behaviour of the polarizations across the strata and leads to the notion of stratified Kahler space which establishes an intimate relationship between nilpotent orbits singular reduction invariant theory reductive dual pairs Jordan triple systems symmetric domains and pre homogeneous spaces The closure of a holomorphic nilpotent orbit or equivalently the closure of the stratum of the associated pre homogeneous space of parabolic type carries a positive normal Kahler structure In the world of singular Poisson geometry the closures of principal holomorphic nilpotent orbits positive definite hermitian JTS s and certain pre homogeneous spaces appear as different incarnations of the same structure The closure of the principal holomorphic nilpotent orbit arises from a semisimple holomorphic orbit by contraction Symplectic reduction carries a positive Kahler manifold to a positive normal Kahler space in such a way that the sheaf of germs of polarized functions coincides with the ordinary sheaf of germs of holomorphic functions Symplectic reduction establishes a close relationship between singular reduced spaces and nilpotent orbits of the dual groups Projectivization of holomorphic nilpotent orbits yields exotic positive stratified Kahler structures on complex projective spaces and on certain complex projective varieties including complex projective quadrics The space of in general twisted representations of the fundamental group of a closed surface in a compact Lie group or equivalently a moduli space of central Yang Mills connections on a principal bundle over a surface inherits a positive normal stratified Kahler structure Physical examples are provided by certain reduced spaces arising from angular momentum zero *Mutually Catalytic Super Branching Random Walks: Large Finite Systems and Renormalization Analysis* J. T. Cox,Jeff Groah,Donald Andrew Dawson,Andreas Greven,2004 Studies the evolution of the large finite spatial systems in size dependent time scales and compare them with the behavior of the infinite systems which amounts to establishing the so called finite system scheme This title introduces the concept of a continuum limit in the hierarchical mean field limit **Exceptional Vector Bundles, Tilting Sheaves and Tilting Complexes for Weighted Projective Lines** Hagen Meltzer,2004 Deals with weighted projective lines a class of non commutative curves modelled by Geigle and Lenzing on a graded commutative sheaf theory They play an important role in representation theory of finite dimensional algebras the complexity of the classification of coherent sheaves largely depends on the genus of these curves The Second Duals of Beurling Algebras Harold G. Dales,Anthony To-Ming Lau,2005 Let A be a Banach algebra with second dual space A We propose to study the space A as a Banach algebra There are two Banach algebra products on A denoted by Box and Diamond The Banach algebra A is Arens regular if the two products Box and Diamond coincide on A Rigidity Theorems for Actions of Product Groups and Countable Borel Equivalence Relations Greg Hjorth,A. S.

Kechris,2005 Contributes to the theory of Borel equivalence relations considered up to Borel reducibility and measures preserving group actions considered up to orbit equivalence This title catalogs the actions of products of the free group and obtains additional rigidity theorems and relative ergodicity results in this context   A Sharp Threshold for Random Graphs with a Monochromatic Triangle in Every Edge Coloring Ehud Friedgut,2006 Let cal R be the set of all finite graphs G with the Ramsey property that every coloring of the edges of G by two colors yields a monochromatic triangle In this paper the authors establish a sharp threshold for random graphs with this property Let G n p be the random graph on n vertices with edge probability p The authors prove that there exists a function widehat c widehat c n Theta 1 such that for any varepsilon 0 as n tends to infinity Pr left G n 1 varepsilon widehat c sqrt n in cal R right rightarrow 0 and Pr left G n 1 varepsilon widehat c sqrt n in cal R right rightarrow 1 A crucial tool that is used in the proof and is of independent interest is a generalization of Szemeredi s Regularity Lemma to a certain hypergraph setti   Uniformizing Dessins and BelyiMaps via Circle Packing Philip L. Bowers,Kenneth Stephenson,2004 Introduction Dessins d enfants Discrete Dessins via circle packing Uniformizing Dessins A menagerie of Dessins d enfants Computational issues Additional constructions Non equilateral triangulations The discrete option Appendix Implementation Bibliography   **The Complex Monge-Ampere Equation and Pluripotential Theory** Sławomir Kołodziej,2005 We collect here results on the existence and stability of weak solutions of complex Monge Ampere equation proved by applying pluripotential theory methods and obtained in past three decades First we set the stage introducing basic concepts and theorems of pluripotential theory Then the Dirichlet problem for the complex Monge Ampere equation is studied The main goal is to give possibly detailed description of the nonnegative Borel measures which on the right hand side of the equation give rise to plurisubharmonic solutions satisfying additional requirements such as continuity boundedness or some weaker ones In the last part the methods of pluripotential theory are implemented to prove the existence and stability of weak solutions of the complex Monge Ampere equation on compact Kahler manifolds This is a generalization of the Calabi Yau theorem   *Quasi-Ordinary Power Series and Their Zeta Functions* Enrique Artal-Bartolo,2005-10-05 The main objective of this paper is to prove the monodromy conjecture for the local Igusa zeta function of a quasi ordinary polynomial of arbitrary dimension defined over a number field In order to do it we compute the local Denef Loeser motivic zeta function $Z_{\text{DL}} h T$ of a quasi ordinary power series h of arbitrary dimension over an algebraically closed field of characteristic zero from its characteristic exponents without using embedded resolution of singularities This allows us to effectively represent $Z_{\text{DL}} h T P T Q T$ such that almost all the candidate poles given by Q T are poles Anyway these candidate poles give eigenvalues of the monodromy action on the complex $R \psi_h$ of nearby cycles on h 1 0 In particular we prove in this case the monodromy conjecture made by Denef Loeser for the local motivic zeta function and the local topological zeta function As a consequence if h is a quasi ordinary polynomial defined over a number field we prove the Igusa monodromy conjecture for its local Igusa zeta function

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