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Radially Symmetric Patterns of Reaction-Diffusion Systems

Arnd Scheel

American Mathematical Society

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Radially Symmetric Patterns Of Reaction Diffusion Systems:

Radially Symmetric Patterns of Reaction-Diffusion Systems Arnd Scheel,2003 Includes a paper that studies bifurcations of stationary and time periodic solutions to reaction diffusion systems This title develops a center manifold and normal form theory for radial dynamics which allows for a complete description of radially symmetric patterns

Representation Theory and Numerical AF-Invariants Ola Bratteli,Palle E. T. Jørgensen,Vasylʹ Ostrovsʹkyĭ,2004 Part A Representation theory Part B Numerical AF invariants Bibliography List of figures List of tables List of terms and symbols

Center Manifolds for Semilinear Equations with Non-Dense Domain and Applications to Hopf Bifurcation in Age Structured Models Pierre Magal,Shigui Ruan,2009 Several types of differential equations such as delay differential equations age structure models in population dynamics evolution equations with boundary conditions can be written as semilinear Cauchy problems with an operator which is not densely defined in its domain The goal of this paper is to develop a center manifold theory for semilinear Cauchy problems with non dense domain Using Liapunov Perron method and following the techniques of Vanderbauwhede et al in treating infinite dimensional systems the authors study the existence and smoothness of center manifolds for semilinear Cauchy problems with non dense domain As an application they use the center manifold theorem to establish a Hopf bifurcation theorem for age structured models **Fermionic Expressions for Minimal Model Virasoro Characters** Trevor Alan Welsh,2005 Fermionic expressions for all minimal model Virasoro characters chi DEGREES p p _ r s are stated and proved Each such expression is a sum of terms of fundamental fermionic f **Generative Complexity in Algebra** Joel Berman,2005 Considers the behavior of mathrm G _ mathcal C k when mathcal C is a locally finite equational class variety of algebras and k is finite This title looks at ways that algebraic properties of mathcal C lead to upper or lower bounds on generative complexity Integral Transformations and Anticipative Calculus for Fractional Brownian Motions Yaozhong Hu,2005 A paper that studies two types of integral transformation associated with fractional Brownian motion They are applied to construct approximation schemes for fractional Brownian motion by polygonal approximation of standard Brownian motion This approximation is the best in the sense that it minimizes the mean square error *Large Viscous Boundary Layers for Noncharacteristic Nonlinear Hyperbolic Problems* Guy Métivier,Kevin Zumbrun,2005 Studies two types of integral transformation associated with fractional Brownian motion that are applied to construct approximation schemes for fractional Brownian motion by polygonal approximation of standard Brownian motion This approximation is the best in the sense that it minimizes the mean square error **$\mathcal {R}$-Boundedness, Fourier Multipliers and Problems of Elliptic and Parabolic Type** Robert Denk,Matthias Hieber,Jan Prüss,2003 The property of maximal L_p regularity for parabolic evolution equations is investigated via the concept of mathcal R sectorial operators and operator valued Fourier multipliers As application we consider the L_q realization of an elliptic boundary value problem of order 2m with operator valued coefficients subject to general boundary conditions We show that there is maximal

L_p L_q regularity for the solution of the associated Cauchy problem provided the top order coefficients are bounded and uniformly continuous **Hilbert Modular Forms: mod p and p-Adic Aspects** Fabrizio Andreatta,Eyal Zvi Goren,2005 We study Hilbert modular forms in characteristic p and over p adic rings In the characteristic p theory we describe the kernel and image of the q expansion map and prove the existence of filtration for Hilbert modular forms we define operators U V and Theta_ chi and study the variation of the filtration under these operators Our methods are geometric comparing holomorphic Hilbert modular forms with rational functions on a moduli scheme with level p structure whose poles are supported on the non ordinary locus In the p adic theory we study congruences between Hilbert modular forms This applies to the study of congruences between special values of zeta functions of totally real fields It also allows us to define p adic Hilbert modular forms a la Serre as p adic uniform limit of classical modular forms and compare them with p adic modular forms a la Katz that are regular functions on a certain formal moduli scheme We show that the two notions agree for cusp forms and for a suitable class of weights containing all the classical ones We extend the operators V and Theta_ chi to the p adic setting *Maximum Principles on Riemannian Manifolds and Applications* Stefano Pigola,Marco Rigoli,Alberto Giulio Setti,2005 Aims to introduce the reader to various forms of the maximum principle starting from its classical formulation up to generalizations of the Omori Yau maximum principle at infinity obtained by the authors **Points on Quantum Projectivizations** , **An Analogue of a Reductive Algebraic Monoid Whose Unit Group Is a Kac-Moody Group** Claus Mokler,2005 By an easy generalization of the Tannaka Krein reconstruction we associate to the category of admissible representations of the category mathcal O of a Kac Moody algebra and its category of admissible duals a monoid with a coordinate ring The Kac Moody group is the Zariski open dense unit group of this monoid The restriction of the coordinate ring to the Kac Moody group is the algebra of strongly regular functions introduced by V Kac and D Peterson This monoid has similar structural properties as a reductive algebraic monoid In particular it is unit regular its idempotents related to the faces of the Tits cone It has Bruhat and Birkhoff decompositions The Kac Moody algebra is isomorphic to the Lie algebra of this monoid *On Dynamical Poisson Groupoids I* Luen-Chau Li,Serge Parmentier,2005 We address the question of duality for the dynamical Poisson groupoids of Etingof and Varchenko over a contractible base We also give an explicit description for the coboundary case associated with the solutions of CDYBE on simple Lie algebras as classified by the same authors Conformal and Harmonic Measures on Laminations Associated with Rational Maps Vadim A. Kaimanovich,Mikhail Lyubich,2005 This book is dedicated to Dennis Sullivan on the occasion of his 60th birthday The framework of affine and hyperbolic laminations provides a unifying foundation for many aspects of conformal dynamics and hyperbolic geometry The central objects of this approach are an affine Riemann surface lamination mathcal A and the associated hyperbolic 3 lamination mathcal H endowed with an action of a discrete group of isomorphisms This action is properly discontinuous on mathcal H which allows one to pass to the quotient hyperbolic lamination mathcal M Our work

explores natural geometric measures on these laminations We begin with a brief self contained introduction to the measure theory on laminations by discussing the relationship between leafwise transverse and global measures The central themes of our study are leafwise and transverse conformal streams on an affine lamination mathcal A analogues of the Patterson Sullivan conformal measures for Kleinian groups harmonic and invariant measures on the corresponding hyperbolic lamination mathcal H the Anosov Sinai cocycle the corresponding basic cohomology class on mathcal A which provides an obstruction to flatness and the Busemann cocycle on mathcal H A number of related geometric objects on laminations in particular the backward and forward Poincare series and the associated critical exponents the curvature forms and the Euler class currents and transverse invariant measures lambda harmonic functions and the leafwise Brownian motion are discussed along the lines The main examples are provided by the laminations arising from the Kleinian and the rational dynamics In the former case mathcal M is a sublamination of the unit tangent bundle of a hyperbolic 3 manifold its transversals can be identified with the limit set of the Kleinian group and we show how the classical theory of Patterson Sullivan measures can be recast in terms of our general approach In the latter case the laminations were recently constructed by Lyubich and Minsky in LM97 Assuming that they are locally compact we construct a transverse delta conformal stream on mathcal A and the corresponding lambda harmonic measure on mathcal M where lambda delta delta 2 We prove that the exponent delta of the stream does not exceed 2 and that the affine laminations are never flat except for several explicit special cases rational functions with parabolic Thurston orbifold *The $RO(G)$-Graded Equivariant Ordinary Homology of G-Cell Complexes with Even-Dimensional Cells for $G=\mathbb {Z}/p$* , **Moduli Spaces of Polynomials in Two Variables** Javier Fernández de Bobadilla,2005 Investigates the geometry of the orbit space This book associates a graph with each polynomial in two variables that encodes part of its geometric properties at infinity It also defines a partition of mathbb C x y imposing that the polynomials in the same stratum are the polynomials with a fixed associated graph **Yang-Mills Measure on Compact Surfaces** Thierry Lévy,2003 In this memoir we present a new construction and new properties of the Yang Mills measure in two dimensions This measure was first introduced for the needs of quantum field theory and can be described informally as a probability measure on the space of connections modulo gauge transformations on a principal bundle We consider the case of a bundle over a compact orientable surface Our construction is based on the discrete Yang Mills theory of which we give a full acount We are able to take its continuum limit and to define a pathwise multiplicative process of random holonomy indexed by the class of piecewise embedded loops We study in detail the links between this process and a white noise and prove a result of asymptotic independence in the case of a semi simple structure group We also investigate global Markovian properties of the measure related to the surgery of surfaces 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 *Necessary Conditions in Dynamic Optimization* Francis Clarke,2005 A monograph that derives necessary conditions of optimality for a general control problem formulated in terms of a differential inclusion It expresses The Euler Weierstrass and transversality conditions

Positive Definite Functions on Infinite-Dimensional Convex Cones Helge Glöckner,2003 A memoir that studies positive definite functions on convex subsets of finite or infinite dimensional vector spaces It studies representations of convex cones by positive operators on Hilbert spaces It also studies the interplay between positive definite functions and representations of convex cones

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