

# **MEMOIRS** of the **American Mathematical Society**

**Volume 150 Number 710**

## **Resolving Markov Chains onto Bernoulli Shifts Via Positive Polynomials**

**Brian Marcus  
Selim Tuncel**



**American Mathematical Society**

# Resolving Markov Chains Onto Bernoulli Shifts Via Positive Polynomials

**Michael Grosser**



## **Resolving Markov Chains Onto Bernoulli Shifts Via Positive Polynomials:**

**Resolving Markov Chains onto Bernoulli Shifts via Positive Polynomials** Brian Marcus, Selim Tuncel, 2001 The two parts of this monograph contain two separate but related papers The longer paper in Part A obtains necessary and sufficient conditions for several types of codings of Markov chains onto Bernoulli shifts It proceeds by replacing the defining stochastic matrix of each Markov chain by a matrix whose entries are polynomials with positive coefficients in several variables a Bernoulli shift is represented by a single polynomial with positive coefficients  $p$  This transforms jointly topological and measure theoretic coding problems into combinatorial ones In solving the combinatorial problems in Part A the work states and makes use of facts from Part B concerning  $p$  DEGREESn and its coefficients Part B contains the shorter paper on  $p$  DEGREESn and its coefficients and is independent

Abstract Band Method via Factorization, Positive and Band Extensions of Multivariable Almost Periodic Matrix Functions, and Spectral Estimation L. Rodman, Ilya M. Spitkovskii, Hugo Jan

Woerdeman, 2002 In this work versions of an abstract scheme are developed which are designed to provide a framework for solving a variety of extension problems The abstract scheme is commonly known as the band method The main feature of the new versions is that they express directly the conditions for existence of positive band extensions in terms of abstract factorizations with certain additional properties The results prove amongst other things that the band extension is continuous in an appropriate sense

**Sub-Laplacians with Drift on Lie Groups of Polynomial Volume Growth** Georgios K. Alexopoulos, 2002 This work is intended for graduate students and research mathematicians interested in topological groups Lie groups and harmonic analysis

**$q$ -Difference Operators, Orthogonal Polynomials, and Symmetric Expansions** Douglas Bowman, 2002 The author explores ramifications and extensions of a  $q$  difference operator method first used by L J Rogers for deriving relationships between special functions involving certain fundamental  $q$  symmetric polynomials In special cases these symmetric polynomials reduce to well known classes of orthogonal polynomials A number of basic properties of these polynomials follow from this approach This leads naturally to the evaluation of the Askey Wilson integral and generalizations Expansions of certain generalized basic hypergeometric functions in terms of the symmetric polynomials are also found This provides a quick route to understanding the group structure generated by iterating the two term transformations of these functions Some infrastructure is also laid for more general investigations in the future

Non-Uniform Lattices on Uniform Trees Lisa Carbone, 2001 This title provides a comprehensive examination of non uniform lattices on uniform trees Topics include graphs of groups tree actions and edge indexed graphs Aut  $X$  and its discrete subgroups existence of tree lattices non uniform coverings of indexed graphs with an arithmetic bridge non uniform coverings of indexed graphs with a separating edge non uniform coverings of indexed graphs with a ramified loop eliminating multiple edges existence of arithmetic bridges This book is intended for graduate students and research mathematicians interested in group theory and generalizations

**Mutual Invadability Implies Coexistence in Spatial Models** Richard

Durrett,2002 In 1994 Durrett and Levin proposed that the equilibrium behavior of stochastic spatial models could be determined from properties of the solution of the mean field ordinary differential equation ODE that is obtained by pretending that all sites are always independent Here we prove a general result in support of that picture We give a condition on an ordinary differential equation which implies that densities stay bounded away from 0 in the associated reaction diffusion equation and that coexistence occurs in the stochastic spatial model with fast stirring Then using biologists notion of invadability as a guide we show how this condition can be checked in a wide variety of examples that involve two or three species epidemics diploid genetics models predator prey systems and various competition models **On the Connection between Weighted Norm Inequalities, Commutators and Real Interpolation** Jesús Bastero, Mario Milman, Francisco J. Ruiz,2001 Introduction Calderon weights Applications to real interpolation reiteration and extrapolation Other classes of weights Extrapolation of weighted norm inequalities via extrapolation theory Applications to function spaces Commutators defined by the K method Generalized commutators The quasi Banach case Applications to harmonic analysis BMO type spaces associated to Calderon weights Atomic decompositions and duality References *On the Foundations of Nonlinear Generalized Functions I and II* Michael Grosser,2001 In part 1 of this title the authors construct a diffeomorphism invariant Colombeau type differential algebra canonically containing the space of distributions in the sense of L Schwartz Employing differential calculus in infinite dimensional convenient vector spaces previous attempts in this direction are unified and completed Several classification results are achieved and applications to nonlinear differential equations involving singularities are given *Generalized Whittaker Functions on  $SU(2,2)$  with Respect to the Siegel Parabolic Subgroup* Yasuro Gon,2002 Obtains an explicit formula for generalized Whittaker functions and multiplicity one theorem for all discrete series representations of  $SU(2,2)$  The Lifted Root Number Conjecture and Iwasawa Theory Jürgen Ritter, Alfred Weiss,2002 This paper concerns the relation between the Lifted Root Number Conjecture as introduced in GRW2 and a new equivariant form of Iwasawa theory A main conjecture of equivariant Iwasawa theory is formulated and its equivalence to the Lifted Root Number Conjecture is shown subject to the validity of a semi local version of the Root Number Conjecture which itself is proved in the case of a tame extension of real abelian fields **Stable Homotopy over the Steenrod Algebra** John Harold Palmieri,2001 This title applies the tools of stable homotopy theory to the study of modules over the mod p Steenrod algebra A DEGREES More precisely let  $A$  be the dual of  $A$  DEGREES then we study the category  $\text{mathsf{stable } A}$  of unbounded cochain complexes of injective comodules over  $A$  in which the morphisms are cochain homotopy classes of maps This category is triangulated Indeed it is a stable homotopy category so we can use Brown representability Bousfield localization Brown Comenetz duality and other homotopy theoretic tools to study it One focus of attention is the analogue of the stable homotopy groups of spheres which in this setting is the cohomology of  $\text{mathrm Ext}_{A \text{ DEGREES}} \text{mathbf{F}}_p$   $\text{mathbf{F}}_p$  This title also has nilpotence theorems periodicity theorems a convergent chromatic tower and a nu **Joint**

**Hyponormality of Toeplitz Pairs** Raúl E. Curto, U-yŏng Yi, 2001 This work explores joint hyponormality of Toeplitz pairs Topics include hyponormality of Toeplitz pairs with one coordinate a Toeplitz operator with analytic polynomial symbol hyponormality of trigonometric Toeplitz pairs and the gap between 2 hyponormality and subnormality *Smooth Molecular Decompositions of Functions and Singular Integral Operators* John E. Gilbert, 2002 Under minimal assumptions on a function  $\psi$  the authors obtain wavelet type frames of the form  $\psi_j(x) = \sum_{k \in \mathbb{Z}} \psi(x - k) e^{2\pi i s k}$  in integer  $k$  in integer  $\mathbb{Z}$  for some  $r \geq 1$  and  $s \geq 0$  This collection is shown to be a frame for a scale of Triebel Lizorkin spaces which includes Lebesgue Sobolev and Hardy spaces and the reproducing formula converges in norm as well as pointwise a.e The construction follows from a characterization of those operators which are bounded on a space of smooth molecules This characterization also allows us to decompose a broad range of singular integral operators in terms of **Multi-Interval Linear Ordinary Boundary Value Problems and Complex Symplectic Algebra** William Norrie Everitt, Lawrence Markus, 2001 A multi interval quasi differential system  $I_r M_r w_r$  in  $\Omega$  consists of a collection of real intervals  $I_r$  as indexed by a finite or possibly infinite index set  $\Omega$  where  $\text{card } \Omega \geq \aleph_0$  is permissible on which are assigned ordinary or quasi differential expressions  $M_r$  generating unbounded operators in the Hilbert function spaces  $L_r^2 \equiv L^2(I_r, w_r)$  where  $w_r$  are given non negative weight functions For each fixed  $r$  in  $\Omega$  assume that  $M_r$  is Lagrange symmetric formally self adjoint on  $I_r$  and hence specifies minimal and maximal closed operators  $T_{0r}$  and  $T_{1r}$  respectively in  $L_r^2$  However the theory does not require that the corresponding deficiency indices  $d_{-r}$  and  $d_{+r}$  of  $T_{0r}$  are equal e.g the symplectic excess  $\text{Ex}_r = d_{-r} - d_{+r} \neq 0$  in which case there will not exist any self adjoint extensions of  $T_{0r}$  in  $L_r^2$  In this paper a system Hilbert space  $\mathbf{H} = \sum_{r \in \Omega} L_r^2$  is defined even for non countable  $\Omega$  with corresponding minimal and maximal system operators  $\mathbf{T}_{0-}$  and  $\mathbf{T}_{1+}$  in  $\mathbf{H}$  Then the system deficiency indices  $d_{\pm} = \sum_{r \in \Omega} d_{\pm r}$  are equal system symplectic excess  $\text{Ex}_0$  if and only if there exist self adjoint extensions  $\mathbf{T}$  of  $\mathbf{T}_{0-}$  in  $\mathbf{H}$  The existence is shown of a natural bijective correspondence between the set of all such self adjoint extensions  $\mathbf{T}$  of  $\mathbf{T}_{0-}$  and the set of all complete Lagrangian subspaces  $\mathbf{L}$  of the system boundary complex symplectic space  $\mathbf{S} = \mathbf{D}(\mathbf{T}_{1+}) \oplus \mathbf{D}(\mathbf{T}_{0-})$  This result generalizes the earlier symplectic version of the celebrated GKN Theorem for single interval systems to multi interval systems Examples of such complete Lagrangians for both finite and infinite dimensional complex symplectic  $\mathbf{S}$  illuminate new phenomena for the boundary value problems of multi interval systems These concepts have applications to many particle systems of quantum mechanics and to other physical problems **Basic Global Relative Invariants for Homogeneous Linear Differential Equations** Roger Chalkley, 2002 Given any fixed integer  $m \geq 3$  the author presents simple formulas for  $m-2$  algebraically independent polynomials over  $\mathbb{Q}$  having the remarkable property with respect to transformations of homogeneous linear differential equations of order  $m$  that each polynomial is both a semi invariant of

the first kind with respect to changes of the dependent variable and a semi invariant of the second kind with respect to changes of the independent variable These relative invariants are suitable for global studies in several different contexts and do not require Laguerre Forsyth reductions for their evaluation In contrast all of the general formulas for basic relative invariants that have been proposed by other researchers during the last 113 years are merely local ones that are either much too complicated or require a Laguerre Forsyth reduction for each evaluation

**Layer Potentials, the Hodge Laplacian, and Global Boundary Problems in Nonsmooth Riemannian Manifolds** Dorina Mitrea, Marius Mitrea, Michael

Taylor, 2001 The general aim of the present monograph is to study boundary value problems for second order elliptic operators in Lipschitz sub domains of Riemannian manifolds In the first part ss1 4 we develop a theory for Cauchy type operators on Lipschitz submanifolds of co dimension one focused on boundedness properties and jump relations and solve the  $L_p$  Dirichlet problem with  $p$  close to 2 for general second order strongly elliptic systems The solution is represented in the form of layer potentials and optimal non tangential maximal function estimates are established This analysis is carried out under smoothness assumptions for the coefficients of the operator metric tensor and the underlying domain which are in the nature of best possible In the second part of the monograph ss5 13 we further specialize this discussion to the case of Hodge Laplacian  $\Delta_d$  This time the goal is to identify all pairs of natural boundary conditions of Neumann type Owing to the structural richness of the higher degree case we are considering the theory developed here encompasses in a unitary fashion many basic PDE s of mathematical physics Its scope extends to also cover Maxwell s equations dealt with separately in s14 The main tools are those of PDE s and harmonic analysis occasionally supplemented with some basic facts from algebraic topology and differential geometry

**Lie Algebras Graded by the Root Systems  $BC_r$ ,  $r \geq 2$**

Bruce Normansell Allison, Georgia Benkart, Yun Gao, 2002 Introduction The  $\mathfrak{g}$  module decomposition of a  $\mathfrak{BC}_r$  graded Lie algebra  $\mathfrak{r} \geq 3$  excluding type  $\mathfrak{D}_3$  Models for  $\mathfrak{BC}_r$  graded Lie algebras  $\mathfrak{r} \geq 3$  excluding type  $\mathfrak{D}_3$  The  $\mathfrak{g}$  module decomposition of a  $\mathfrak{BC}_r$  graded Lie algebra with grading subalgebra of type  $\mathfrak{B}_2$   $\mathfrak{C}_2$   $\mathfrak{D}_2$  or  $\mathfrak{D}_3$  Central extensions derivations and invariant forms Models of  $\mathfrak{BC}_r$  graded Lie algebras with grading subalgebra of type  $\mathfrak{B}_2$   $\mathfrak{C}_2$   $\mathfrak{D}_2$  or  $\mathfrak{D}_3$  Appendix Peirce decompositions in structurable algebras References

**Some Generalized Kac-Moody Algebras with Known Root Multiplicities** Peter Niemann, 2002 Starting from Borchers fake monster Lie algebra this text construct a

sequence of six generalized Kac Moody algebras whose denominator formulas root systems and all root multiplicities can be described explicitly The root systems decompose space into convex holes of finite and affine type similar to the situation in the case of the Leech lattice As a corollary we obtain strong upper bounds for the root multiplicities of a number of hyperbolic Lie algebras including  $AE_3$

Maximum Entropy of Cycles of Even Period Deborah Martina King, John Bruce

Strantzen, 2001 This book is intended for graduate students and research mathematicians interested in dynamical systems

and ergodic theory      *Spectral Decomposition of a Covering of  $GL(r)$ : the Borel case* Heng Sun, 2002 Let  $F$  be a number field and  $\mathbb{A}$  the ring of adeles over  $F$  Suppose  $\overline{G}$  is a metaplectic cover of  $G$  over  $\mathbb{A}$  which is given by the  $n$ -th Hilbert symbol on  $\mathbb{A}$

## **Resolving Markov Chains Onto Bernoulli Shifts Via Positive Polynomials** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Resolving Markov Chains Onto Bernoulli Shifts Via Positive Polynomials**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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