The Real Positive Definite Completion Problem: Cycle Completability (Memoirs of the American Mathematical Society)

Barrett, Wayne W.

Real Positive Definite Completion Problem Cycle Completability

Dikran N. Dikranjan,Dmitri Shakhmatov

Real Positive Definite Completion Problem Cycle Completability:

The Real Positive Definite Completion Problem: Cycle Completability Wayne Walton Barrett,Charles R. Johnson,Raphael Loewy,1996 Given a partial symmetric matrix the positive definite completion problem asks if the unspecified entries in the matrix can be chosen so as to make the resulting matrix positive definite Applications include probability and statistics image enhancement systems engineering geophysics and mathematical programming The positive definite completion problem can also be viewed as a mechanism for addressing a fundamental problem in Euclidean geometry which potential geometric configurations of vectors i e configurations with angles between some vectors specified are realizable in a Euclidean space The positions of the specified entries in a partial matrix are naturally described by a graph The question of existence of a positive definite completion was previously solved completely for the restrictive class of chordal graphs and this work solves the problem for the class of cycle completable graphs a significant generalization of chordal graphs These are graphs for which knowledge of completability for induced cycles and cliques implies completability of partial symmetric matrices with the given graph The Real Positive Definite Completion Problem Wayne Walton Barrett,1996 **Locally Finite, Planar, Edge-Transitive Graphs** Jack E. Graver,Mark E. Watkins,1997 The nine finite planar 3 connected edge transitive graphs have been known and studied for many centuries The infinite locally finite planar 3 connected edge transitive graphs can be classified according to the number of their end The 1 ended graphs in this class were identified by Gr nbaum and Shephard Watkins characterized the 2 ended members Any remaining graphs in this class must have uncountably may ends In this work infinite ended members of this class are shown to exist A more detailed classification scheme in terms of the types of Petrie walks in the graphs in this class and the local structure of their automorphism groups is presented **Algebraic Structure of Pseudocompact Groups** Dikran N. Dikranjan,Dmitri Shakhmatov,1998 The fundamental property of compact spaces that continuous functions defined on compact spaces are bounded served as a motivation for E Hewitt to introduce the notion of a pseudocompact space The class of pseudocompact spaces proved to be of fundamental importance in set theoretic topology and its applications This clear and self contained exposition offers a comprehensive treatment of the question When does a group admit an introduction of a pseudocompact Hausdorff topology that makes group operations continuous Equivalently what is the algebraic structure of a pseudocompact Hausdorff group The authors have adopted a unifying approach that covers all known results and leads to new ones Results in the book are free of any additional set theoretic assumptions **Short-Time Geometry of Random Heat Kernels** Richard Bucher Sowers,1998 This volume studies the behaviour of a random heat kernel associated with a stochastic partial differential equation and gives short time expansion of this heat kernel The author finds that the dominant exponential term is classical and depends only on the Riemannian distance function The second exponential term is a work term and also has classical meaning There is also a third non negligible exponential term which blows up The author finds an expression for this third exponential term which

involves a random translation of the index form and the equations of Jacobi fields In the process he develops a method to approximate the heat kernel to any arbitrary degree of precision **Maximality Properties in Numerical Semigroups and Applications to One-Dimensional Analytically Irreducible Local Domains** Valentina Barucci,David E. Dobbs,Marco Fontana,1997 In Chapter I various numerical semigroup theoretic concepts and constructions are introduced and characterized Applications in Chapter II are made to the study of Noetherian local one dimensional analytically irreducible integral domains especially for the Gorenstein maximal embedding dimension and Arf cases as well as to the so called Kunz case a pervasive kind of domain of Cohen Macaulay type 2 *Gauge Theory on Compact Surfaces* Ambar Sengupta,1997 In this paper we develop a concrete description of connections on principal bundles possibly non trivial over compact surfaces and use this description to construct the Yang Mills measure which underlies the Euclidean quantum theory of gauge fields involving compact gauge groups on compact connected two dimensional Riemannian manifolds possibly with boundary Using this measure we compute expectation values of important random variables the Wilson loops variables corresponding to a broad class of configurations of loops on the surface **Combinatorial Theory of the Free Product with Amalgamation and Operator-Valued Free Probability Theory** Roland Speicher,1998 Free probability theory introduced by Voiculescu has developed very actively in the last few years and has had an increasing impact on quite different fields in mathematics and physics Whereas the subject arose out of the field of von Neumann algebras presented here is a quite different view of Voiculescu s amalgamated free product This combinatorial description not only allows re proving of most of Voiculescu s results in a concise and elegant way but also opens the way for many new results Unlike other approaches this book emphasizes the combinatorial structure of the concept of freeness This gives an elegant and easily accessible description of freeness and leads to new results in unexpected directions Specifically a mathematical framework for otherwise quite ad hoc approximations in physics emerges **Crossed Products of von Neumann Algebras by Equivalence Relations and Their Subalgebras** Igor Fulman,1997 In this book the author introduces and studies the construction of the crossed product of a von Neumann algebra This construction is the generalization of the construction of the crossed product of an abelian von Neumann algebra by an equivalence relation introduced by J Feldman and C C Moore Many properties of this construction are proved in the general case In addition the generalizations of the Spectral Theorem on Bimodules and of the theorem on dilations are proved Classification of Simple C*-algebras: Inductive Limits of Matrix Algebras over Trees Liangqing Li,1997 In this paper it is shown that the simple unital C algebras arising as inductive limits of sequences of finite direct sums of matrix algebras over italic capital C italic capital X subscript italic i where italic capital X subscript italic i are arbitrary variable trees are classified by K theoretical and tracial data This result generalizes the result of George Elliott of the case of italic capital X subscript italic i 0 1 The added generality is useful in the classification of more general inductive limit C algebras **Conjugacy of $\mathrm {Alt}_5$ and $\mathrm {SL}(2, 5)$ Subgroups of $E_8(\mathbb C)$**

Darrin D. Frey,1998 Exceptional complex Lie groups have become increasingly important in various fields of mathematics and physics As a result there has been interest in expanding the representation theory of finite groups to include embeddings into the exceptional Lie groups Cohen Griess Lisser Ryba Serre and Wales have pioneered this area classifying the finite simple and quasisimple subgroups that embed in the exceptional complex Lie groups This work contains the first major results concerning conjugacy classes of embeddings of finite subgroups of an exceptional complex Lie group in which there are large numbers of classes The approach developed in this work is character theoretic taking advantage of the classical subgroups of Eg C The machinery used is relatively elementary and has been used by the author and others to solve other conjugacy problems The results presented here are very explicity Each known conjugacy class if listed by its fusion pattern with an explicit character afforded by an embedding in that class Degenerate Principal Series for Symplectic and Odd-Orthogonal Groups Chris Jantzen,1996-01-01 This memoir studies reducibility in a certain class of induced representations for and where is adic In particular it is concerned with representations obtained by inducing a one dimensional representation from a maximal parabolic subgroup i e degenerate principal series representations Using the Jacquet module techniques of Tadi the reducibility points for such representations are determined When reducible the composition series is described giving Langlands data and Jacquet modules for the irreducible composition factors

Stratifying Endomorphism Algebras Edward Cline,Brian Parshall,Leonard L. Scott,1996 This paper presents a systematic study of the relationships between the representation theories of italic capital R and italic capital A especially those involving actual or potential quasi hereditary structures on the latter algebra Our original motivation comes from the theory of Schur algebras work of Soergel on the Bernstein Gelfand Gelfand category script capital O and resent results of Dlab Heath Marko realizing certain endomorphism algebras as quasi hereditary algebras We synthesize common features of all these examples and go beyond them in a number of new directions **The Classification of Countable Homogeneous Directed Graphs and Countable Homogeneous n-tournaments** Gregory L. Cherlin,1998 In this book Ramsey theoretic methods introduced by Lachlan are applied to classify the countable homogeneous directed graphs This is an uncountable collection and this book presents the first explicit classification result covering an uncountable family The author s aim is to demonstrate the potential of Lachlan s method for systematic use Lie Groups and Subsemigroups with Surjective Exponential Function Karl Heinrich Hofmann,Wolfgang Ruppert,1997 In the structure theory of real Lie groups there is still information lacking about the exponential function Most notably there are no general necessary and sufficient conditions for the exponential function to be surjective It is surprising that for subsemigroups of Lie groups the question of the surjectivity of the exponential function can be answered Under nature reductions setting aside the group part of the problem subsemigroups of Lie groups with surjective exponential function are completely classified and explicitly constructed in this memoir There are fewer than one would think and the proofs are harder than one would expect requiring

some innovative twists The main protagonists on the scene are SL 2 R and its universal covering group almost abelian solvable Lie groups ie vector groups extended by homotheties and compact Lie groups This text will also be of interest to those working in algebra and algebraic geometry Analytic Deformations of the Spectrum of a Family of Dirac Operators on an Odd-Dimensional Manifold with Boundary Paul Kirk,Eric Klassen,1996 The analytic perturbation theory for eigenvalues of Dirac operators on odd dimensional manifolds with boundary is described in terms of italic extended L2 eigenvectors end italics on manifolds with cylindrical ends These are generalizations of the Atiyah Patodi Singer extended italic capital L2 kernel of a Dirac operator We prove that they form a discrete set near zero and deform analytically in contrast to italic capital L2 eigenvectors which can be absorbed into the continuous spectrum under deformations when the tangential operator is not invertible We show that the analytic deformation theory for extended italic capital L2 eigenvectors and Atiyah Patodi Singer eigenvectors coincides Two Classes of Riemannian Manifolds Whose Geodesic Flows Are Integrable Kazuyoshi Kiyohara,1997 Two classes of manifolds whose geodesic flows are integrable are defined and their global structures are investigated They are called Liouville manifolds and Kahler Liouville manifolds respectively In each case the author finds several invariants with which they are partly classified The classification indicates in particular that these classes contain many new examples of manifolds with integrable geodesic flow **Wandering Vectors for Unitary Systems and Orthogonal Wavelets** Xingde Dai,David R. Larson,1998 Investigates topological and structural properties of the set W U of all complete wandering vectors for a system U of unitary operators acting on a Hilbert space The authors parameterize W U in terms of a fixed vector y and the set of all unitary operators which locally commute with U at y No index Annotation copyrighted by Book News Inc Portland OR **Axiomatic Stable Homotopy Theory** Mark Hovey,John Harold Palmieri,Neil P. Strickland,1997 We define and investigate a class of categories with formal properties similar to those of the homotopy category of spectra This class includes suitable versions of the derived category of modules over a commutative ring or of comodules over a commutative Hopf algebra and is closed under Bousfield localization We study various notions of smallness questions about representability of co homology functors and various kinds of localization We prove theorems analogous to those of Hopkins and Smith about detection of nilpotence and classification of thick subcategories We define the class of Noetherian stable homotopy categories and investigate their special properties Finally we prove that a number of categories occurring in nature including those mentioned above satisfy our axioms L Functions for the Orthogonal Group David Ginzburg,Il′i□a□ Iosifovich Pi□a□tet□s□kiĭ-Shapiro,Stephen Rallis,1997 In this book the authors establish global Rankin Selberg integrals which determine the standard italic capital L function for the group italic capitals GL subscript italic r x italic capital G where italic capital G is an isometry group of a nondegenerate symmetric form The class of automorphic representations considered here is for any pair capital Greek Pi1 otimes dyadic Kronecker tensor product symbol capital Greek Pi2 where capital Greek Pi1 is generic cuspidal for italic capitals GL subscript italic r italic capital A

and capital Greek Pi2 is cuspidal for italic capital G italic capital A The construction of these italic capital L functions involves the use of certain new models of local representations these models generalize the usual generic models The authors also computer local unramified factors in a new way using geometric ideas

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