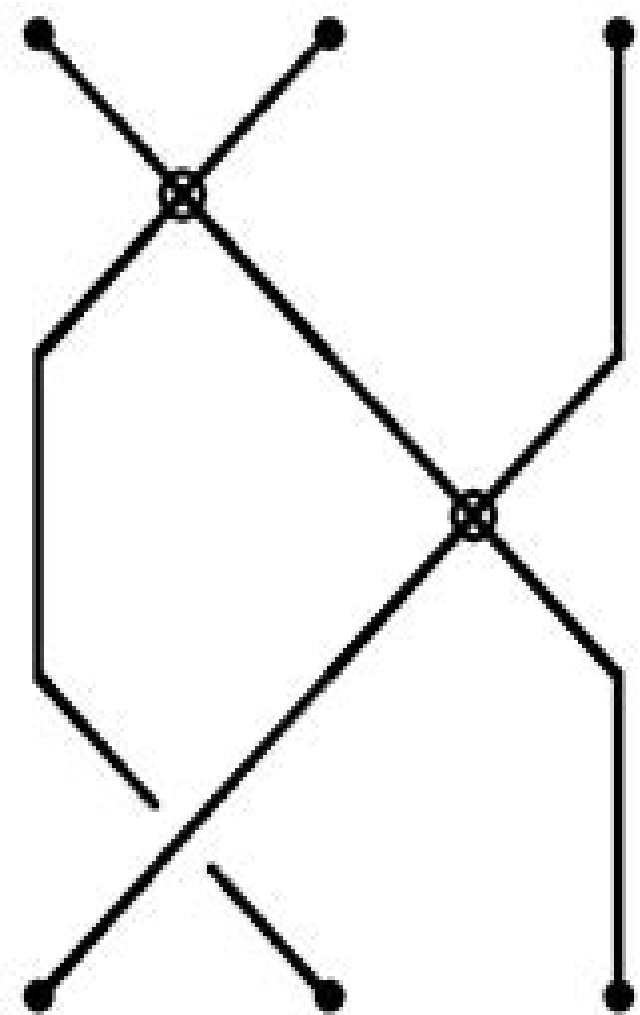


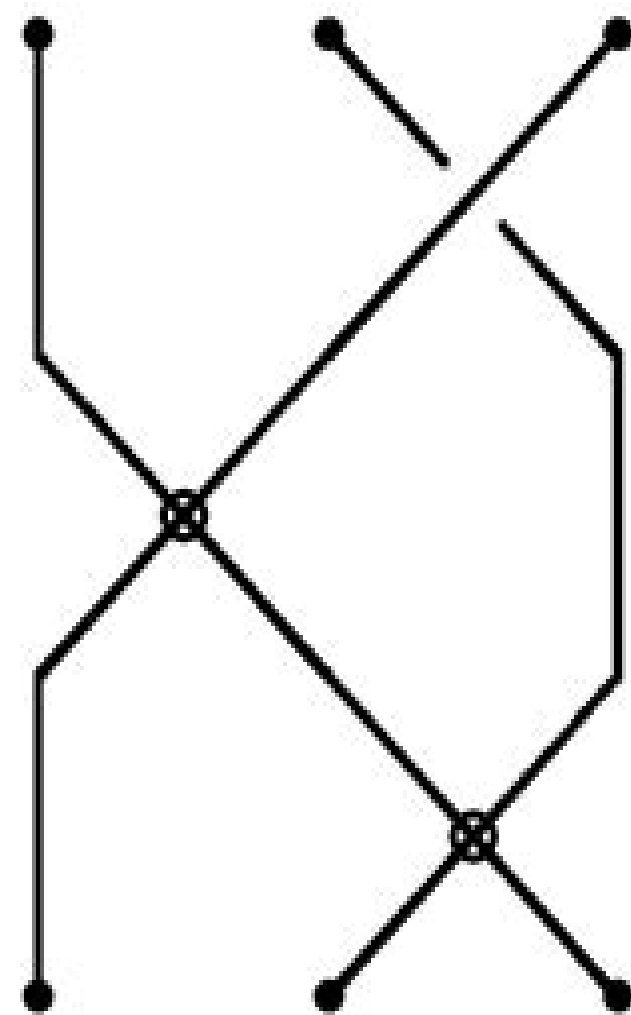
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Symmetric Automorphisms Of Free Products

Gilles Pisier



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Symmetric Automorphisms of Free Products Darryl McCullough, Andy Miller, 1996 The authors construct a complex K on which the automorphism group of G acts and use it to derive finiteness consequences for the group Σ of G They prove that each component of K is contractible and describe the vertex stabilizers as elementary constructs involving the groups G_i and G 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 **Higher Multiplicities and Almost Free Divisors and**

Complete Intersections James Damon, 1996 Almost free divisors and complete intersections form a general class of nonisolated hypersurface and complete intersection singularities They also include discriminants of mappings bifurcation sets and certain types of arrangements of hyperplanes such as Coxeter arrangements and generic arrangements Associated to the singularities of this class is a singular Milnor fibration which has the same homotopy properties as the Milnor fibration for isolated singularities This memoir deduces topological properties of singularities in a number of situations including complements of hyperplane arrangements various nonisolated complete intersections nonlinear arrangements of

hypersurfaces functions on discriminants singularities defined by compositions of functions and bifurcation sets Crossed Products with Continuous Trace Siegfried Echterhoff, 1996 This memoir presents an extensive study of strongly continuous actions of abelian locally compact groups on C^* -algebras with continuous trace Expositions of the Mackey-Green-Rieffel machine of induced representations and the theory of Morita equivalent C^* -dynamical systems are included There is also an elaboration of the representation theory of crossed products by actions of abelian groups on type I C^* -algebras **Extended Affine Lie Algebras and Their Root Systems** Bruce Normansell Allison, 1997 This

work is about extended affine Lie algebras EALAs and their root systems EALAs were introduced by Heggh Krohn and Torresani under the name irreducible quasi-simple Lie algebras The major objective is to develop enough theory to provide a firm foundation for further study of EALAs The first chapter of the paper is devoted to establishing some basic structure theory It includes a proof of the fact that as conjectured by Kac the invariant symmetric bilinear form on an EALA can be

scaled so that its restriction to the real span of the root system is positive semi definite The second chapter studies extended affine root systems EARS which are an axiomatized version of the root systems arising from EALA s The concept of a semilattice is used to give a complete description of EARS In the final chapter a number of new examples of extended affine Lie algebras are given The concluding appendix contains an axiomatic characterization of the nonisotropic roots in an EARS in a more general context than the one used in the rest of the paper

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

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

Completely Positive Hypergroup Actions Ajit Iqbal Singh, 1996 It is now well known that the measure algebra M of a locally compact group can be regarded as a subalgebra of the operator algebra $B(L_2(G))$ of the Hilbert space $L_2(G)$ We study the situation in hypergroups and find that in general the analogous map for them is neither an isometry nor a homomorphism However it is completely positive and completely bounded in certain ways This work presents the related general theory and special examples

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 R and 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 \mathcal{O} and recent 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

Abelian Galois Cohomology of Reductive Groups Mikhail Borovoi, 1998 In this volume a new function $H^2(\text{ab } K/G)$ of abelian Galois cohomology is introduced from the category of connected reductive groups G over a field K of characteristic 0 to the category of abelian groups The abelian Galois cohomology and the abelianization map $\text{ab} : H^1(K/G) \rightarrow H^2(\text{ab } K/G)$ are used to give a functorial almost explicit description of the usual Galois cohomology set $H^1(K/G)$ when K is a number field

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 extended L^2 eigenvectors on manifolds with cylindrical ends These are generalizations of the Atiyah Patodi Singer extended L^2 kernel of a Dirac operator We prove that they form a discrete set near zero and deform analytically in contrast to L^2 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 L^2 eigenvectors and Atiyah Patodi Singer eigenvectors coincides

The Operator Hilbert Space \mathcal{OH}_∞ , Complex Interpolation and Tensor Norms Gilles Pisier, 1996 In the recently developed duality theory of operator spaces bounded operators are replaced by completely bounded ones isomorphism by complete isomorphisms and Banach spaces by operator spaces This allows for distinguishing between the various ways in which a given Banach space can be embedded isometrically into $B(H)$ with H being Hilbert One of the main results is the observation that there is a central object in this class there is a unique self dual Hilbertian operator space which we denote by \mathcal{OH}_∞ which seems to play the same central role in the category of operator spaces that Hilbert spaces play in the category of Banach spaces

L Functions for the Orthogonal Group David Ginzburg, Il'ia Iosifovich Piatetski-Shapiro, Stephen Rallis, 1997 In this book the authors establish global Rankin Selberg integrals which determine the standard L function for the group $GL_r(\mathbb{A})$ where G is an isometry group of a nondegenerate symmetric form The class of automorphic representations considered here is for any pair (π_1, π_2) of dyadic Kronecker tensor product symbol (π_1, π_2) where π_1 is generic cuspidal for $GL_r(\mathbb{A})$ and π_2 is cuspidal for $GL_r(\mathbb{A})$ The construction of these L functions involves the use of certain new models of local representations these models generalize the usual generic models The authors also compute local unramified factors in a new way using geometric ideas

Wavelet Methods for Pointwise Regularity and Local Oscillations of Functions Stéphane Jaffard, Yves Meyer, 1996 We investigate several topics related to the local behavior of functions pointwise Hölder regularity local scaling invariance and very oscillatory chirp like behaviors Our main tool is to relate these notions to two microlocal conditions which are defined either on the Littlewood Paley decomposition or on the wavelet transform We give characterizations and the main properties

of these two microlocal spaces and we give several applications such as bounds on the dimension of the set of Hlder singularities of a function Sobolev regularity of trace functions and chirp expansions of specific functions *Generalized Symplectic Geometries and the Index of Families of Elliptic Problems* Liviu I. Nicolaescu, 1997 In this book an index theorem is proved for arbitrary families of elliptic boundary value problems for Dirac operators and a surgery formula for the index of a family of Dirac operators on a closed manifold Also obtained is a very general result on the cobordism invariance of the index of a family All results are established by first symplectically rephrasing the problems and then using a generalized symplectic reduction technique This provides a unified approach to all possible parameter spaces and all possible symmetries of a Dirac operator eight symmetries in the real case and two in the complex case This text will also be of interest to those working in geometry and topology **Large Time Behavior of Solutions for General Quasilinear**

Hyperbolic-Parabolic Systems of Conservation Laws Tai-Ping Liu, Yanni Zeng, 1997 We are interested in the time asymptotic behavior of solutions to viscous conservation laws Through the pointwise estimates for the Green's function of the linearized system and the analysis of coupling of nonlinear diffusion waves we obtain explicit expressions of the time asymptotic behavior of the solutions This yields optimal estimates in the integral norms For most physical models the viscosity matrix is not positive definite and the system is hyperbolic-parabolic and not uniformly parabolic This implies that the Green's function may contain Dirac lower case Greek Delta functions When the corresponding inviscid system is non strictly hyperbolic the time asymptotic state contains generalized Burgers solutions These are illustrated by applying our general theory to the compressible Navier-Stokes equations and the equations of magnetohydrodynamics *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

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 *Some Connections between Isoperimetric and Sobolev-type Inequalities* Serguei Germanovich Bobkov, Christian Houdré, 1997 For Borel probability measures on metric spaces this text studies the interplay between isoperimetric and Sobolev type inequalities In particular the question of finding optimal constants via isoperimetric quantities is explored Also given are necessary and sufficient conditions for the equivalence between the extremality of some

sets in the isoperimetric problem and the validity of some analytic inequalities The book devotes much attention to the probability distributions on the real line the normalized Lebesgue measure on the Euclidean spheres and the canonical Gaussian measure on the Euclidean space

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

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