

MEMOIRS

of the
American Mathematical Society

Number 643

Spectral Asymptotics on Degenerating Hyperbolic 3-Manifolds

Józef Dodziuk
Jay Jorgenson



September 1998 • Volume 135 • Number 643 (third of 3 numbers) • ISSN 0033-9266

American Mathematical Society

Spectral Asymptotics On Degenerating Hyperbolic 3 Manifolds

Russell Johnson, Mahesh G. Nerurkar



Spectral Asymptotics On Degenerating Hyperbolic 3 Manifolds:

Spectral Asymptotics on Degenerating Hyperbolic 3-Manifolds Józef Dodziuk, Jay Jorgenson, 1998 In this volume the authors study asymptotics of the geometry and spectral theory of degenerating sequences of finite volume hyperbolic manifolds of three dimensions Thurston's hyperbolic surgery theorem asserts the existence of non trivial sequences of finite volume hyperbolic three manifolds which converge to a three manifold with additional cusps In the geometric aspect of their study the authors use the convergence of hyperbolic metrics on the thick parts of the manifolds under consideration to investigate convergence of tubes in the manifolds of the sequence to cusps of the limiting manifold In the spectral theory aspect of the work they prove convergence of heat kernels They then define a regularized heat trace associated to any finite volume complete hyperbolic three manifold and study its asymptotic behaviour through degeneration As an application of the analysis of the regularized heat trace they study asymptotic behaviours of the spectral zeta function determinant of the Laplacian Selberg zeta function and spectral counting functions through degeneration The authors methods are an adaptation to three dimensions of the earlier work of Jorgenson and Lundelius who investigated the asymptotic behaviour of spectral functions on degenerating families of finite area hyperbolic Riemann surfaces

Homogeneous Integral Table Algebras of Degree Three: A Trilogy Harvey I. Blau, 2000 Homogeneous integral table algebras of degree three with a faithful real element The algebras of the title are classified to exact isomorphism that is the sets of structure constants which arise from the given basis are completely determined Other results describe all possible extensions pre images with a faithful element which is not necessarily real of certain simple homogeneous integral table algebras of degree three On antisymmetric homogeneous integral table algebras of degree three This paper determines the homogeneous integral table algebras of degree three in which the given basis has a faithful element and has no nontrivial elements that are either real symmetric or linear and where an additional hypothesis is satisfied It is shown that all such bases must occur as the set of orbit sums in the complex group algebra of a finite abelian group under the action of a fixed point free automorphism of order three Homogeneous integral table algebras of degree three with no nontrivial linear elements The algebras of the title which also have a faithful element are determined to exact isomorphism All of the simple homogeneous integral table algebras of degree three are displayed and the commutative association schemes in which all the nondiagonal relations have valency three and where some relation defines a connected graph on the underlying set are classified up to algebraic isomorphism

Differential Equations Methods for the Monge-Kantorovich Mass Transfer Problem Lawrence C. Evans, Wilfrid Gangbo, 1999 In this volume the authors demonstrate under some assumptions on f that a solution to the classical Monge-Kantorovich problem of optimally rearranging the measure $\mu_f dx$ onto $\mu_f dy$ can be constructed by studying the p Laplacian equation $\operatorname{div} \nabla_p u = f$ in the limit as $p \rightarrow \infty$ The idea is to show $u_p \rightarrow u$ where u satisfies $|\nabla u| \leq 1$ and $\operatorname{div} a \nabla u = f$ for some density $a \geq 0$ and then to build a flow by solving a

nonautonomous ODE involving a Du f and f *Annihilating Fields of Standard Modules of $\mathfrak{sl}(2, \mathbb{C})$* Arne Meurman, Mirko Primc, 1999 In this volume the authors show that a set of local admissible fields generates a vertex algebra For an affine Lie algebra $\tilde{\mathfrak{g}}$ they construct the corresponding level k vertex operator algebra and show that level k highest weight $\tilde{\mathfrak{g}}$ modules are modules for this vertex operator algebra They determine the set of annihilating fields of level k standard modules and study the corresponding loop $\tilde{\mathfrak{g}}$ module the set of relations that defines standard modules In the case when $\tilde{\mathfrak{g}}$ is of type A_{l-1} they construct bases of standard modules parameterized by colored partitions and as a consequence obtain a series of Rogers Ramanujan type combinatorial identities *The Riemann Problem for the Transportation Equations in Gas Dynamics* Wancheng Sheng, Tong Zhang, 1999 In this volume the one dimensional and two dimensional Riemann problems for the transportation equations in gas dynamics are solved constructively In either the 1 D or 2 D case there are only two kinds of solutions one involves Dirac delta waves and the other involves vacuums which has been merely discussed so far The generalized Rankine Hugoniot and entropy conditions for Dirac delta waves are clarified with viscous vanishing method All of the existence uniqueness and stability for viscous perturbations are proved analytically **Hopf Algebras, Polynomial Formal Groups, and Raynaud Orders** Lindsay Childs, 1998 This volume gives two new methods for constructing p elementary Hopf algebra orders over the valuation ring R of a local field K containing the p adic rational numbers One method constructs Hopf orders using isogenies of commutative degree 2 polynomial formal groups of dimension n and is built on a systematic study of such formal group laws The other method uses an exponential generalization of a 1992 construction of Greither Both constructions yield Raynaud orders as iterated extensions of rank p Hopf algebras the exponential method obtains all Raynaud orders whose invariants satisfy a certain p adic condition *Matching of Orbital Integrals on $GL(4)$ and $GSp(2)$* Yuval Zvi Flicker, 1999 The trace formula is the most powerful tool currently available to establish liftings of automorphic forms as predicted by Langlands principle of functionality The geometric part of the trace formula consists of orbital integrals and the lifting is based on the fundamental lemma The latter is an identity of the relevant orbital integrals for the unit elements of the Hecke algebras This volume concerns a proof of the fundamental lemma in the classically most interesting case of Siegel modular forms namely the symplectic group $Sp(2)$ These orbital integrals are compared with those on $GL(4)$ twisted by the transpose inverse involution The technique of proof is elementary Compact elements are decomposed into their absolutely semi simple and topologically unipotent parts also in the twisted case a double coset decomposition of the form $H G K$ where H is a subgroup containing the centralizer plays a key role *Rational Homotopical Models and Uniqueness* Martin Majewski, 2000 The main goal of this paper is to prove the following conjecture of Baues and Lemaire the differential graded Lie Tlgebra associated with the Sullivan model of a space is homotopy equivalent to its Quillen model In addition we show the same for the cellular Lie algebra model which we build from the simplicial analog of the classical Adams Hilton model It

turns out that this cellular Lie algebra model is one link in a chain of models connecting the models of Quillen and Sullivan. The key result which makes all this possible is Anick's correspondence between differential graded Lie algebras and Hopf algebras up to homotopy. In addition we show that the Quillen model is a rational homotopical equivalence and we conclude the same for the other models using our main result. The construction of the three models is given in detail. The background from homotopy theory, differential algebra and algebra is presented in great generality.

Non-Additive Exact Functors and Tensor Induction for Mackey Functors Serge Bouc, 2000. First the author introduces a generalization of the notion of right exact functor between abelian categories to the case of non additive functors. The main result of this section is an extension theorem: any functor defined on a suitable subcategory can be extended uniquely to a right exact functor defined on the whole category. Next those results are used to define various functors of generalized tensor induction associated to finite bisets between categories attached to finite groups. This includes a definition of tensor induction for Mackey functors, for cohomological Mackey functors, for p -permutation modules and algebras. This also gives a single formalism of bisets for restriction, inflation and ordinary tensor induction for modules.

Categories of Operator Modules (Morita Equivalence and Projective Modules) David P. Blecher, Paul S. Muhly, Vern I. Paulsen, 2000. We employ recent advances in the theory of operator spaces, also known as quantized functional analysis, to provide a context in which one can compare categories of modules over operator algebras that are not necessarily self adjoint. We focus our attention on the category of Hilbert modules over an operator algebra and on the category of operator modules over an operator algebra. The module operations are assumed to be completely bounded, usually completely contractive. We develop the notion of a Morita context between two operator algebras A and B . This is a system $(A \rtimes B, B \rtimes A, \phi, \psi)$ consisting of the algebras $A \rtimes B$ and $B \rtimes A$ and pairings $\phi: A \rtimes B \rightarrow A$ and $\psi: B \rtimes A \rightarrow B$ that induce complete isomorphisms between the balanced Haagerup tensor products $X \otimes_{A \rtimes B} Y$ and $Y \otimes_{B \rtimes A} X$ and the algebras A and B respectively. Thus formally a Morita context is the same as that which appears in pure ring theory. The subtleties of the theory lie in the interplay between the pure algebra and the operator space geometry. Our analysis leads to viable notions of projective operator modules and dual operator modules. We show that two C^* -algebras are Morita equivalent in our sense if and only if they are C^* -algebraically strong Morita equivalent and moreover the equivalence bimodules are the same. The distinctive features of the non self adjoint theory are illuminated through a number of examples drawn from complex analysis and the theory of incidence algebras over topological partial orders. Finally an appendix provides links to the literature that developed since this Memoir was accepted for publication.

Caustics for Dissipative Semilinear Oscillations Jean-Luc Joly, Guy Métivier, Jeffrey Rauch, 2000. This book is intended for graduate students and research mathematicians interested in partial differential equations.

Invariants under Tori of Rings of Differential Operators and Related Topics Ian Malcolm Musson, M. van den Bergh, 1998. If G is a reductive algebraic group acting rationally on a smooth affine variety X then it is generally believed that $D(X)$ has properties very similar to those of

enveloping algebras of semisimple Lie algebras In this book the authors show that this is indeed the case when G is a torus and X k times k They give a precise description of the primitive ideals in $D(X)$ and study in detail the ring theoretical and homological properties of the minimal primitive quotients of $D(X)$ The latter are of the form $B(D(X)_{\text{germ } g} / \chi \text{ germ } g)$ where $\text{germ } g \in \text{Lie } G$ χ in $\text{germ } g$ \ast and $\text{germ } g / \chi \text{ germ } g$ is the set of all $v \in \chi \text{ germ } g$ with v in $\text{germ } g$ They occur as rings of twisted differential operators on toric varieties It is also proven that if G is a torus acting rationally on a smooth affine variety then $D(X)^G$ is a simple ring

Almost Automorphic and Almost Periodic Dynamics in Skew-Product Semiflows

Wenxian Shen, Yingfei Yi, 1998 This volume is devoted to the study of almost automorphic dynamics in differential equations By making use of techniques from abstract topological dynamics it is shown that almost automorphy a notion which was introduced by S Bochner in 1955 is essential and fundamental in the qualitative study of almost periodic differential equations

Controllability, Stabilization, and the Regulator Problem for Random Differential Systems Russell

Johnson, Mahesh G. Nerurkar, 1998 This volume develops a systematic study of time dependent control processes The basic problem of null controllability of linear systems is first considered Using methods of ergodic theory and topological dynamics general local null controllability criteria are given Then the subtle question of global null controllability is studied Next the random linear feedback and stabilization problem is posed and solved Using concepts of exponential dichotomy and rotation number for linear Hamiltonian systems a solution of the Riccati equation is obtained which has extremely good robustness properties and which also preserves all the smoothness and recurrence properties of the coefficients Finally a general version of the local nonlinear feedback stabilization problem is solved

Rational Curves on Quasi-Projective Surfaces Seán

Keel, James McKernan, 1999 This book is intended for graduate students and research mathematicians working in algebraic geometry

A Computation of δ^1_5 Steve Jackson, 1999 This book is intended for graduate students and

research mathematicians working in logic and foundations

Dynamical Zeta Functions, Nielsen Theory and

Reidemeister Torsion Alexander Fel'shtyn, Alexander Fel'shtyn, 2000 In the paper we study new dynamical zeta functions connected with Nielsen fixed point theory The study of dynamical zeta functions is part of the theory of dynamical systems but it is also intimately related to algebraic geometry number theory topology and statistical mechanics The paper consists of four parts Part I presents a brief account of the Nielsen fixed point theory Part II deals with dynamical zeta functions connected with Nielsen fixed point theory Part III is concerned with analog of Dold congruences for the Reidemeister and Nielsen numbers In Part IV we explain how dynamical zeta functions give rise to the Reidemeister torsion a very important topological invariant which has useful applications in knots theory quantum field theory and dynamical systems

Complexes Associated to Two Vectors and a Rectangular Matrix Andrew R. Kustin, 2000 This book is intended for graduate student and research mathematicians interested in commutative rings and algebras

Norms on Possibilities. I:

Forcing with Trees and Creatures Andrzej Rosłanowski, Saharon Shelah, 1999 This book is intended for graduate students

and research mathematicians interested in mathematical logic and foundations Morava K -Theories and Localisation
Mark Hovey, Neil P. Strickland, 1999 This book is intended for graduate students and research mathematicians working in
group theory and generalizations

Unveiling the Magic of Words: A Report on "**Spectral Asymptotics On Degenerating Hyperbolic 3 Manifolds**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Spectral Asymptotics On Degenerating Hyperbolic 3 Manifolds**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound affect on the souls of its readers.

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