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Spectral Asymptotics on Degenerating Hyperbolic 3-Manifolds

Józef Dodziuk
Jay Jorgenson



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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 **Extremal Riemann Surfaces**

John R. Quine, Peter Sarnak, 1997 Other papers deal with maximizing or minimizing functions defined by the spectrum such as the heat kernel the zeta function and the determinant of the Laplacian some from the point of view of identifying an extremal metric **Dynamical, Spectral, and Arithmetic Zeta Functions** Michel Laurent Lapidus, Machiel Van Frankenhuysen, 2001 The original zeta function was studied by Riemann as part of his investigation of the distribution of prime numbers Other sorts of zeta functions were defined for number theoretic purposes such as the study of primes in arithmetic progressions This led to the development of L functions which now have several guises It eventually became clear that the basic construction used for number theoretic zeta functions can also be used in other settings such as dynamics geometry and spectral theory with remarkable results This volume grew out of the special session on dynamical spectral and arithmetic zeta functions held at the annual meeting of the American Mathematical Society in San Antonio but also includes four articles that were invited to be part of the collection The purpose of the meeting was to bring together leading researchers to find links and analogies between their fields and to explore new methods The papers discuss dynamical systems spectral geometry on hyperbolic manifolds trace formulas in geometry and in arithmetic as well as computational work on the Riemann zeta function Each article employs techniques of zeta functions The book unifies the application of these techniques in spectral geometry fractal geometry and number theory It is a comprehensive volume offering up to date research It should be useful to both graduate students and confirmed researchers **Asymptotics for Solutions of Linear Differential Equations Having Turning Points with Applications** Shlomo Strelitz, 1999 Asymptotics are built for the solutions $y_j(x, \lambda) \sim \sum_{k=0}^{\infty} \lambda^{-k} \Delta_{j,k}(x)$ of the equation $L y = \lambda p(x) y$ in $0 < x < 1$

where L_y is a linear differential operator of whatever order $n \geq 2$ and p_x is assumed to possess a finite number of turning points. The established asymptotics are afterwards applied to the study of 1 the existence of infinite eigenvalue sequences for various multipoint boundary problems posed on $L_y \lambda p_x y \text{ quad } x \text{ in } [0, 1]$ especially as $n \rightarrow 2$ and $n \rightarrow 3$ let us be aware that the same method can be successfully applied on many occasions in case $n = 3$ too and 2 asymptotical distribution of the corresponding eigenvalue sequences on the

Continuous Tensor Products and Arveson's Spectral C^ -Algebras* Joachim Zacharias, 2000 This book is intended for graduate students and research mathematicians interested in operator algebras

Number Theory, Analysis and Geometry Dorian Goldfeld, Jay Jorgenson, Peter Jones, Dinakar Ramakrishnan, Kenneth Ribet, John Tate, 2011-12-21 Serge Lang was an iconic figure in mathematics both for his own important work and for the indelible impact he left on the field of mathematics on his students and on his colleagues. Over the course of his career Lang traversed a tremendous amount of mathematical ground. As he moved from subject to subject he found analogies that led to important questions in such areas as number theory, arithmetic geometry, and the theory of negatively curved spaces. Lang's conjectures will keep many mathematicians occupied far into the future. In the spirit of Lang's vast contribution to mathematics, this memorial volume contains articles by prominent mathematicians in a variety of areas of the field, namely Number Theory, Analysis, and Geometry, representing Lang's own breadth of interest and impact. A special introduction by John Tate includes a brief and fascinating account of the Serge Lang's life. This volume's group of 6 editors are also highly prominent mathematicians and were close to Serge Lang both academically and personally. The volume is suitable to research mathematicians in the areas of Number Theory, Analysis, and Geometry.

Mathematics Unlimited - 2001 and Beyond Björn Engquist, Wilfried Schmid, 2017-04-05 This is a book guaranteed to delight the reader. It not only depicts the state of mathematics at the end of the century but is also full of remarkable insights into its future development as we enter a new millennium. True to its title, the book extends beyond the spectrum of mathematics to include contributions from other related sciences. You will enjoy reading the many stimulating contributions and gain insights into the astounding progress of mathematics and the perspectives for its future. One of the editors, Björn Engquist, is a world-renowned researcher in computational science and engineering. The second editor, Wilfried Schmid, is a distinguished mathematician at Harvard University. Likewise, the authors are all foremost mathematicians and scientists, and their biographies and photographs appear at the end of the book. Unique in both form and content, this is a must-read for every mathematician and scientist and in particular for graduates still choosing their specialty.

Heat Kernels and Analysis on Manifolds, Graphs, and Metric Spaces Pascal Auscher, T. Coulhon, 2003 This volume contains the expanded lecture notes of courses taught at the Emile Borel Centre of the Henri Poincaré Institute, Paris. In the book, leading experts introduce recent research in their fields. The unifying theme is the study of heat kernels in various situations using related geometric and analytic tools. Topics include analysis of complex coefficient elliptic operators, diffusions on fractals, and on infinite dimensional groups, heat kernel and

isoperimetry on Riemannian manifolds heat kernels and infinite dimensional analysis diffusions and Sobolev type spaces on metric spaces quasi regular mappings and p Laplace operators heat kernel and spherical inversion on $SL(2, \mathbb{C})$ random walks and spectral geometry on crystal lattices isoperimetric and isocapacitary inequalities and generating function techniques for random walks on graphs This volume is suitable for graduate students and research mathematicians interested in random processes and analysis on manifolds *Rank 3 Amalgams* Bernd Stellmacher, Franz Georg Timmesfeld, 1998 This book is intended for graduate students and research mathematicians working in classical linear algebraic Periodic Hamiltonian Flows on Four Dimensional Manifolds Yael Karshon, 1999 This book is intended for graduate students and research mathematicians interested in global analysis analysis on manifolds and symplectic geometry

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