Short-Time Geometry of Random Heat Kernels

R. B. Sowers

Short Time Geometry Of Random Heat Kernels

Richard Bucher Sowers

Short Time Geometry Of Random Heat Kernels:

  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   *Short-Time Geometry of Random Heat Kernels* Richard Bucher Sowers,2014-09-11 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   **Geometry of Random Motion** Richard Durrett,Mark A. Pinsky,1988 In July 1987 an AMS IMS SIAM Joint Summer Research Conference on Geometry of Random Motion was held at Cornell University The initial impetus for the meeting came from the desire to further explore the now classical connection between diffusion processes and second order hypo elliptic differential operators To accomplish this goal the conference brought together leading researchers with varied backgrounds and interests probabilists who have proved results in geometry geometers who have used probabilistic methods and probabilists who have studied diffusion processes Focusing on the interplay between probability and differential geometry this volume examines diffusion processes on various geometric structures such as Riemannian manifolds Lie groups and symmetric spaces Some of the articles specifically address analysis on manifolds while others center on nongeometric stochastic analysis The majority of the articles deal simultaneously with probabilistic and geometric techniques Requiring a knowledge of the modern theory of diffusion processes this book will appeal to mathematicians mathematical physicists and other researchers interested in Brownian motion diffusion processes Laplace Beltrami operators and the geometric applications of these concepts The book provides a detailed view of the leading edge of research in this rapidly moving field

  Annihilating Fields of Standard Modules of $\mathfrak {sl}(2, \mathbb {C})^\sim $ and Combinatorial Identities 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 frak g they construct the corresponding level k vertex operator algebra and show that level k highest weight tilde frak 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 frak g module the set of relations that defines standard modules In the case when tilde frak g is of type A 1 1 they construct bases of standard modules parameterized by colored partitions and as a consequence obtain a series of Rogers Ramanujan type combinatorial identities

Inverses of Disjointness Preserving Operators Yuri A. Abramovich,Arkady K. Kitover,2000 This book is intended for graduate students and research mathematicians interested in operator theory functional analysis and vector lattices

Basic Almost-Poised Hypergeometric Series Wenchang Chu,1998 Presents a systematic treatment for the evaluation of basic almost poised series Some 200 identities are covered among which most are believed to be new Their connections with the q Clausen formulae as well as Rogers Ramanujan identities are sketched No index Annotation copyrighted by Book News Inc Portland OR **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 Theconstruction of the three models is given in detail The background from homotopy theory differential algebra and algebra is presented in great generality Cutting Brownian Paths Richard F. Bass,Krzysztof Burdzy,1999 A long open problem in probability theory has been the following Can the graph of planar Brownian motion be split by a straight line In this volume the authors provide a solution discuss related works and present a number of open problems Rank 3 Amalgams Bernd Stellmacher,Franz Georg Timmesfeld,1998 This book is intended for graduate students and research mathematicians working in classical linear algebraic **Forward-Backward Stochastic Differential Equations and their Applications** Jin Ma,Jiongmin Yong,2007-04-24 This volume is a survey monograph on the recently developed theory of forward backward stochastic differential equations FBSDEs Basic techniques such as the method of optimal control the Four Step Scheme and the method of continuation are presented in full Related topics such as backward stochastic PDEs and many applications of FBSDEs are also discussed in detail The volume is suitable for readers with basic knowledge of stochastic differential equations and some exposure to the stochastic control theory and PDEs It can be used for researchers and or senior graduate students in the areas of probability control theory mathematical finance and other related fields *Generalizations of the Perron-Frobenius Theorem for Nonlinear Maps* Roger D. Nussbaum,Sjoerd M. Verduyn Lunel,1999 The classical Frobenius Perron Theorem establishes the existence of periodic points of certain linear maps in $\mathbb{R}^n$ The authors present generalizations of this theorem to nonlinea Time-Dependent Subdifferential Evolution Inclusions and Optimal

Control Shouchuan Hu,Nikolaos Socrates Papageorgiou,1998 This volume studies multivalued evolution equations driven by time dependent subdifferential operators and optimal control problems for such systems The formulation is general enough to incorporate problems with time varying constraints For evolution inclusions existence relaxation and structural results for the solution set are proved For optimal control problems a general existence theory is developed different forms of the relaxed problem are introduced and studied well posedness properties are investigated and the precise relation between the properties of relaxability and well posedness is established Various examples of systems which fit in the abstract framework are analysed   Simplicial Dynamical Systems Ethan Akin,1999 A simplicial dynamical system is a simplicial map g K DEGREES rightarrow K where K is a finite simplicial complex triangulating a compact polyhedron X and K DEGREES is a proper subdivision of K for example the barycentric or any further subdivision the dynamics of the asociated piecewise linear map g X X can be analyzed by using certain naturally related subshifts of finite type Any continous map on X can be C DEGREES0 approximated by such systems Other examples yield interesting   *Splitting Theorems for Certain Equivariant Spectra* L. Gaunce Lewis,2000 This book is intended for graduate students and research mathematicians interested in algebraic topology   **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   *Semiclassical Analysis for Diffusions and Stochastic Processes* Vassili N. Kolokoltsov,2007-12-03 The monograph is devoted mainly to the analytical study of the differential pseudo differential and stochastic evolution equations describing the transition probabilities of various Markov processes These include i diffusions in particular degenerate diffusions ii more general jump diffusions especially stable jump diffusions driven by stable L vy processes iii complex stochastic Schr dinger equations which correspond to models of quantum open systems The main results of the book concern the existence two sided estimates path integral representation and small time and semiclassical asymptotics for the Green functions or fundamental solutions of these equations which represent the transition probability densities of the corresponding random process The boundary value problem for Hamiltonian systems and some spectral asymptotics ar also discussed Readers should have an elementary knowledge of probability complex and functional analysis and calculus   *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   **Algebro-Geometric Quasi-Periodic Finite-Gap Solutions of the Toda and Kac-van Moerbeke Hierarchies** Wolfgang Bulla,1998 In this work the authors provide a self contained discussion of all real valued quasi periodic finite gap solutions of the Toda and Kac van Moerbeke hierarchies of completely integrable evolution equations The approach utilizes algebro geometric methods factorization techniques for finite difference expressions as well as Miura type transformations Detailed spectral theoretic properties of Lax pairs and theta function representations of the solutions are derived Features Simple and unified treatment

of the topic Self contained development Novel results for the Kac van Moerbeke hierarchy and its algebro geometric solutions A_1 Subgroups of Exceptional Algebraic Groups Ross Lawther,Donna M. Testerman,1999 This book is intended for graduate students and research mathematicians interested in group theory and genralizations   **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

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