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Volume 68

## The Mathematical Legacy of Harish-Chandra

A Celebration of Representation  
Theory and Harmonic Analysis

An AMS Special Session  
Honoring the Memory of Harish-Chandra  
January 9–10, 1998  
Baltimore, Maryland

Robert S. Doran  
V. S. Varadarajan  
Editors



American Mathematical Society

# Mathematical Legacy Of Harish Chandra A Celebration Of Representation Theory And Harmonic Analysis

**Robert S. Doran**



## **Mathematical Legacy Of Harish Chandra A Celebration Of Representation Theory And Harmonic Analysis:**

**The Mathematical Legacy of Harish-Chandra** Robert S. Doran, 2000 Harish Chandra was a mathematician of great power vision and remarkable ingenuity His profound contributions to the representation theory of Lie groups harmonic analysis and related areas left researchers a rich legacy that continues today This book presents the proceedings of an AMS Special Session entitled Representation Theory and Noncommutative Harmonic Analysis A Special Session Honoring the Memory of Harish Chandra which marked 75 years since his birth and 15 years since his untimely death at age 60 Contributions to the volume were written by an outstanding group of internationally known mathematicians Included are expository and historical surveys and original research papers The book also includes talks given at the IAS Memorial Service in 1983 by colleagues who knew Harish Chandra well Also reprinted are two articles entitled Some Recollections of Harish Chandra by A Borel and Harish Chandra's  $\zeta$  Function A Mathematical Jewel by S Helgason In addition an expository paper An Elementary Introduction to Harish Chandra's Work gives an overview of some of his most basic mathematical ideas with references for further study This volume offers a comprehensive retrospective of Harish Chandra's professional life and work Personal recollections give the book particular significance Readers should have an advanced level background in the representation theory of Lie groups and harmonic analysis *The Mathematical Legacy of Harish-Chandra*, 2014-06-06

Harish Chandra was a mathematician of great power vision and remarkable ingenuity His profound contributions to the representation theory of Lie groups harmonic analysis and related areas left researchers a legacy that continues into the 21st century This book presents the proceedings of an AMS Special Session entitled Representation Theory and Noncommutative Harmonic Analysis A Special Session Honouring the Memory of Harish Chandra which marked 75 years since his birth and 15 years since his untimely death at age 60 Contributions to the volume were written by internationally known mathematicians Included are expository and historical surveys and original research papers The book also includes talks given at the IAS Memorial Service in 1983 by colleagues who knew Harish Chandra well Also reprinted are two articles entitled Some Recollections of Harish Chandra by A Borel and Harish Chandra's  $\zeta$  Function A Mathematical Jewel by S Helgason In addition an expository paper An Elementary Introduction to Harish Chandra's Work gives an overview of some of his most basic mathematical ideas with references for further study *Representation Theory and Harmonic Analysis on Symmetric Spaces* Jens Gerlach Christensen, Susanna Dann, Matthew Dawson, 2018-08-27 This volume contains the proceedings of the AMS Special Session on Harmonic Analysis in honor of Gestur lafsson's 65th birthday held on January 4 2017 in Atlanta Georgia The articles in this volume provide fresh perspectives on many different directions within harmonic analysis highlighting the connections between harmonic analysis and the areas of integral geometry complex analysis operator algebras Lie algebras special functions and differential operators The breadth of contributions highlights the diversity of current research in harmonic analysis and shows that it continues to be a vibrant and fruitful field of inquiry

Perspectives in Partial Differential Equations, Harmonic Analysis and Applications Dorina Mitrea, Marius Mitrea, 2008

This volume contains a collection of papers contributed on the occasion of Mazya's 70th birthday by a distinguished group of experts of international stature in the fields of harmonic analysis, partial differential equations, function theory and spectral analysis reflecting the state of the art in these areas

Symmetry in Geometry and Analysis, Volume 2 Michael Pevzner, Hideko Sekiguchi, 2025-02-10 Symmetry in Geometry and Analysis is a Festschrift honoring Toshiyuki Kobayashi. The three volumes feature 35 selected contributions from invited speakers of twin conferences held in June 2022 in Reims, France and in September 2022 in Tokyo, Japan. These contributions highlight the profound impact of Prof. Kobayashi's pioneering ideas, groundbreaking discoveries and significant achievements in the development of analytic representation theory, noncommutative harmonic analysis and the geometry of discontinuous groups beyond the Riemannian context among other areas over the past four decades. This second volume of the Festschrift contains original articles on analytic methods in representation theory of reductive Lie groups and related topics. Contributions are by Salem Ben Saïd, Valentina Casarino, Paolo Ciatti, Jean-Louis Clerc, Jan Frahm, Joachim Hilgert, Toshihisa Kubo, Khalid Koufany, Quentin Labriet, Karl Hermann Neeb, Yury Neretin, Gestur Laffson, Bent Rørded, Toshio Oshima, Birgit Speh, Jorge Vargas and Clemens Weiske.

**Smooth-automorphic Forms And Smooth-automorphic Representations** Harald Grobner, 2023-06-09 This book provides a conceptual introduction into the representation theory of local and global groups with final emphasis on automorphic representations of reductive groups  $G$  over number fields  $F$ . Our approach to automorphic representations differs from the usual literature. We do not consider  $K$ -finite automorphic forms but we allow a richer class of smooth functions of uniform moderate growth. Contrasting the usual approach, our space of smooth automorphic forms is intrinsic to the group scheme  $G/F$ . This setup also covers the advantage that a perfect representation-theoretical symmetry between the archimedean and non-archimedean places of the number field  $F$  is regained by making the bigger space of smooth automorphic forms into a proper continuous representation of the full group of adelic points of  $G$ . Graduate students and researchers will find the covered topics appear for the first time in a book where the theory of smooth automorphic representations is robustly developed and presented in great detail.

**Mathematical Foundations of Quantum Field Theory and Perturbative String Theory** Hisham Sati, Urs Schreiber, 2011-12-07 Conceptual progress in fundamental theoretical physics is linked with the search for the suitable mathematical structures that model the physical systems. Quantum field theory (QFT) has proven to be a rich source of ideas for mathematics for a long time. However, fundamental questions such as "What is a QFT?" did not have satisfactory mathematical answers, especially on spaces with arbitrary topology, fundamental for the formulation of perturbative string theory. This book contains a collection of papers highlighting the mathematical foundations of QFT and its relevance to perturbative string theory as well as the deep techniques that have been emerging in the last few years. The papers are organized under three main chapters: Foundations for Quantum Field

Theory Quantization of Field Theories and Two Dimensional Quantum Field Theories An introduction written by the editors provides an overview of the main underlying themes that bind together the papers in the volume *Asymptotic Combinatorics with Application to Mathematical Physics* V.A. Malyshev, A.M. Vershik, 2012-12-06 New and striking results obtained in recent years from an intensive study of asymptotic combinatorics have led to a new higher level of understanding of related problems the theory of integrable systems the Riemann Hilbert problem asymptotic representation theory spectra of random matrices combinatorics of Young diagrams and permutations and even some aspects of quantum field theory

**Smooth Ergodic Theory and Its Applications** A. B. Katok, 2001 During the past decade there have been several major new developments in smooth ergodic theory which have attracted substantial interest to the field from mathematicians as well as scientists using dynamics in their work In spite of the impressive literature it has been extremely difficult for a student or even an established mathematician who is not an expert in the area to acquire a working knowledge of smooth ergodic theory and to learn how to use its tools Accordingly the AMS Summer Research Institute on Smooth Ergodic Theory and Its Applications Seattle WA had a strong educational component including ten mini courses on various aspects of the topic that were presented by leading experts in the field This volume presents the proceedings of that conference Smooth ergodic theory studies the statistical properties of differentiable dynamical systems whose origin traces back to the seminal works of Poincare and later many great mathematicians who made contributions to the development of the theory The main topic of this volume smooth ergodic theory especially the theory of nonuniformly hyperbolic systems provides the principle paradigm for the rigorous study of complicated or chaotic behavior in deterministic systems This paradigm asserts that if a non linear dynamical system exhibits sufficiently pronounced exponential behavior then global properties of the system can be deduced from studying the linearized system One can then obtain detailed information on topological properties such as the growth of periodic orbits topological entropy and dimension of invariant sets including attractors as well as statistical properties such as the existence of invariant measures asymptotic behavior of typical orbits ergodicity mixing decay of correlations This volume serves a two fold purpose first it gives a useful gateway to smooth ergodic theory for students and nonspecialists and second it provides a state of the art report on important current aspects of the subject The book is divided into three parts lecture notes consisting of three long expositions with proofs aimed to serve as a comprehensive and self contained introduction to a particular area of smooth ergodic theory thematic sections based on mini courses or surveys held at the conference and original contributions presented at the meeting or closely related to the topics that were discussed there

*Multiple Dirichlet Series, Automorphic Forms, and Analytic Number Theory* Solomon Friedberg, 2006 Multiple Dirichlet series are Dirichlet series in several complex variables A multiple Dirichlet series is said to be perfect if it satisfies a finite group of functional equations and has meromorphic continuation everywhere The earliest examples came from Mellin transforms of metaplectic Eisenstein series and have been intensively studied over the last twenty years More recently many

other examples have been discovered and it appears that all the classical theorems on moments of L functions as well as the conjectures such as those predicted by random matrix theory can now be obtained via the theory of multiple Dirichlet series Furthermore new results not obtainable by other methods are just coming to light This volume offers an account of some of the major research to date and the opportunities for the future It includes an exposition of the main results in the theory of multiple Dirichlet series and papers on moments of zeta and L functions on new examples of multiple Dirichlet

**Algebraic Geometry** Dan Abramovich, 2009 Offers information on various technical tools from jet schemes and derived categories to algebraic stacks This book delves into the geometry of various moduli spaces including those of stable curves stable maps coherent sheaves and abelian varieties It describes various advances in higher dimensional bi rational geometry

**Symmetry in Vision** Marco Bertamini, Lewis Griffin, 2018-07-09 This book is a printed edition of the Special Issue Symmetry in Vision that was published in Symmetry

**Fractal Geometry and Applications: A Jubilee of Benoit Mandelbrot** Michel Laurent Lapidus, Machiel Van Frankenhuysen, 2004 This volume offers an excellent selection of cutting edge articles about fractal geometry covering the great breadth of mathematics and related areas touched by this subject Included are rich survey articles and fine expository papers The high quality contributions to the volume by well known researchers including two articles by Mandelbrot provide a solid cross section of recent research representing the richness and variety of contemporary advances in and around fractal geometry In demonstrating the vitality and diversity of the field this book will motivate further investigation into the many open problems and inspire future research directions It is suitable for graduate students and researchers interested in fractal geometry and its applications This is a two part volume Part 1 covers analysis number theory and dynamical systems Part 2 multifractals probability and statistical mechanics and applications

**Topology and Geometry of Manifolds** Gordana Matic, Clint McCrory, 2003 Since 1961 the Georgia Topology Conference has been held every eight years to discuss the newest developments in topology The goals of the conference are to disseminate new and important results and to encourage interaction among topologists who are in different stages of their careers Invited speakers are encouraged to aim their talks to a broad audience and several talks are organized to introduce graduate students to topics of current interest Each conference results in high quality surveys new research and lists of unsolved problems some of which are then formally published Continuing in this 40 year tradition the AMS presents this volume of articles and problem lists from the 2001 conference Topics covered include symplectic and contact topology foliations and laminations and invariants of manifolds and knots Articles of particular interest include John Etnyre s Introductory Lectures on Contact Geometry which is a beautiful expository paper that explains the background and setting for many of the other papers This is an excellent introduction to the subject for graduate students in neighboring fields Etnyre and Lenhard Ng s Problems in Low Dimensional Contact Topology and Danny Calegari s extensive paper Problems in Foliations and Laminations of 3 Manifolds are carefully selected problems in keeping with the tradition of the

conference They were compiled by Etnyre and Ng and by Calegari with the input of many who were present This book provides material of current interest to graduate students and research mathematicians interested in the geometry and topology of manifolds

**Low-dimensional and Symplectic Topology** Michael Usher, 2011 Every eight years since 1961 the University of Georgia has hosted a major international topology conference aimed at disseminating important recent results and bringing together researchers at different stages of their careers This volume contains the proceedings of the 2009 conference which includes survey and research articles concerning such areas as knot theory contact and symplectic topology 3 manifold theory geometric group theory and equivariant topology Among other highlights of the volume a survey article by Stefan Friedl and Stefano Vidussi provides an accessible treatment of their important proof of Taubes conjecture on symplectic structures on the product of a 3 manifold and a circle and an intriguing short article by Dennis Sullivan opens the door to the use of modern algebraic topological techniques in the study of finite dimensional models of famously difficult problems in fluid dynamics Continuing what has become a tradition this volume contains a report on a problem session held at the conference discussing a variety of open problems in geometric topology

**Superstrings, Geometry, Topology, and  $C^*$ -algebras** Robert S. Doran, Greg Friedman, Jonathan Rosenberg, 2010-10-13 This volume contains the proceedings of an NSF CBMS Conference held at Texas Christian University in Fort Worth Texas May 18-22 2009 The papers written especially for this volume by well known mathematicians and mathematical physicists are an outgrowth of the talks presented at the conference Topics examined are highly interdisciplinary and include among many other things recent results on D brane charges in K homology and twisted K homology Yang Mills gauge theory and connections with non commutative geometry Landau Ginzburg models C algebraic non commutative geometry and ties to quantum physics and topology the rational homotopy type of the group of unitary elements in an Azumaya algebra and functoriality properties in the theory of C crossed products and fixed point algebras for proper actions An introduction written by Jonathan Rosenberg provides an instructive overview describing common themes and how the various papers in the volume are interrelated and fit together The rich diversity of papers appearing in the volume demonstrates the current interplay between superstring theory geometry topology and non commutative geometry The book will be of interest to graduate students mathematicians mathematical physicists and researchers working in these areas

**Cycle Spaces of Flag Domains** Gregor Fels, Alan Huckleberry, Joseph A. Wolf, 2006-07-30 This research monograph is a systematic exposition of the background methods and recent results in the theory of cycle spaces of flag domains Some of the methods are now standard but many are new The exposition is carried out from the viewpoint of complex algebraic and differential geometry Except for certain foundational material which is readily available from standard texts it is essentially self contained at points where this is not the case we give extensive references After developing the background material on complex flag manifolds and representation theory we give an exposition with a number of new results of the complex geometric methods that lead to our characterizations of group

theoretically defined cycle spaces and to a number of consequences. Then we give a brief indication of just how those results are related to the representation theory of semisimple Lie groups through for example the theory of double bration transforms and we indicate the connection to the variation of Hodge structure. Finally we work out detailed local descriptions of the relevant full Barlet cycle spaces. Cycle space theory is a basic chapter in complex analysis. Since the 1960s its importance has been underlined by its role in the geometry of  $ag$  domains and by applications in the representation theory of semisimple Lie groups. This developed very slowly until a few years ago when methods of complex geometry in particular those involving Schubert slices, Schubert domains, Iwasawa domains and supporting hypersurfaces were introduced. In the late 1990s and continuing through early 2002 we developed those methods and used them to give a precise description of cycle spaces for  $ag$  domains. This effectively enabled the use of double bration transforms in all  $ag$  domain situations.

**Double Affine Hecke Algebras**  
Ivan Cherednik, 2005-03-21. This is an essentially self contained monograph centered on the new double Hecke algebra technique.

**Mathematical Reviews**, 2001. *Global Analysis and Harmonic Analysis* Jean-Pierre Bourguignon, Thomas Branson, Oussama Hijazi, 2000. This book presents the proceedings of a meeting intended to gather researchers working in the fields of harmonic analysis and global analysis to discuss some questions of common interest. About twenty talks covered the principal topics illustrating the recent interactions between these two fields. The meeting started with a survey on spin geometry and was followed by talks on the spectrum of the Dirac operator in hyperbolic Kählerian and pseudo Riemannian geometry. Different aspects of representation theory were discussed: Schubert cells, unitary representations with reflection symmetry, gradient operators and Poisson transformations. Another series of talks was devoted to the systematic use of representation theory in global analysis in particular on the Bernstein Gelfand Gelfand sequences in parabolic geometry, the construction of conformally covariant operators and some refinements of the Kato inequality in Riemannian geometry. Various presentations ranging from general relativity to harmonic maps by way of 4 dimensional geometry, topology, Seiberg Witten theory and the index theorem in 2 dimensional hyperbolic geometry illustrated the diversity of applications of techniques from harmonic analysis.



## **Mathematical Legacy Of Harish Chandra A Celebration Of Representation Theory And Harmonic Analysis** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the power of words has are more evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Mathematical Legacy Of Harish Chandra A Celebration Of Representation Theory And Harmonic Analysis**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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### **Mathematical Legacy Of Harish Chandra A Celebration Of Representation Theory And Harmonic Analysis**

#### **Introduction**

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