# Regulators in Analysis, Geometry and Number Theory

Alexander Reznikov Norbert Schappacher Editors

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# **Regulators In Analysis Geometry And Number Theory**

Alexander Reznikov, Norbert Schappacher

### **Regulators In Analysis Geometry And Number Theory:**

Regulators in Analysis, Geometry and Number Theory Alexander Reznikov, Norbert Schappacher, 2012-12-06 This book is an outgrowth of the Workshop on Regulators in Analysis Geom etry and Number Theory held at the Edmund Landau Center for Research in Mathematical Analysis of The Hebrew University of Jerusalem in 1996 During the preparation and the holding of the workshop we were greatly helped by the director of the Landau Center Lior Tsafriri during the time of the planning of the conference and Hershel Farkas during the meeting itself Organizing and running this workshop was a true pleasure thanks to the expert technical help provided by the Landau Center in general and by its secretary Simcha Kojman in particular We would like to express our hearty thanks to all of them However the articles assembled in the present volume do not represent the proceedings of this workshop neither could all contributors to the book make it to the meeting nor do the contributions herein necessarily reflect talks given in Jerusalem In the introduction we outline our view of the theory to which this volume intends to contribute The crucial objective of the present volume is to bring together concepts methods and results from analysis differential as well as algebraic geometry and number theory in order to work towards a deeper and more comprehensive understanding of regulators and secondary invariants Our thanks go to all the participants of the workshop and authors of this volume May the readers of this book enjoy and profit from the combination of mathematical ideas here documented Regulators in Analysis, Geometry and Number Theory Alexander Reznikov, Norbert Schappacher, 1999-10-22 Regulators in Analysis, Geometry and Number Theory Alexander Reznikov, Norbert Schappacher, 2000 This work is an outgrowth of a conference held at the Hebrew University in Jerusalem on Regulators in Analysis Geometry and Number Theory and should appeal to a broad audience of graduate students and research mathematicians BOOK JACKET Spectral Analysis in Geometry and Number Theory Motoko Kotani, Hisashi Naito, Tatsuya Tate, 2009 This volume is an outgrowth of an international conference in honor of Toshikazu Sunada on the occasion of his sixtieth birthday The conference took place at Nagoya University Japan in 2007 Sunada's research covers a wide spectrum of spectral analysis including interactions among geometry number theory dynamical systems probability theory and mathematical physics Readers will find papers on trace formulae isospectral problems zeta functions quantum ergodicity random waves discrete geometric analysis value distribution and semiclassical analysis This volume also contains an article that presents an overview of Sunada's work in mathematics up to the age of sixty D-Modules, Perverse Sheaves, and Representation Theory Ryoshi Hotta, Toshiyuki Tanisaki, 2007-11-07 D modules continues to be an active area of stimulating research in such mathematical areas as algebraic analysis differential equations and representation theory Key to D modules Perverse Sheaves and Representation Theory is the authors essential algebraic analytic approach to the theory which connects D modules to representation theory and other areas of mathematics To further aid the reader and to make the work as self contained as possible appendices are provided as background for the theory of derived categories and

algebraic varieties. The book is intended to serve graduate students in a classroom setting and as self study for researchers in algebraic geometry representation theory **The Arithmetic of Dynamical Systems** J.H. Silverman, 2010-05-05 This book is designed to provide a path for the reader into an amalgamation of two venerable areas of mathematics Dynamical Systems and Number Theory Many of the motivating theorems and conjectures in the new subject of Arithmetic Dynamics may be viewed as the transposition of classical results in the theory of Diophantine equations to the setting of discrete dynamical systems especially to the iteration theory ofmaps on the projective line and other algebraic varieties Although there is no precise dictionary connecting the two areas the reader will gain a flavor of the correspondence from the following associations Diophantine Equations Dynamical Systems rational and integral rational and integral points on varieties points in orbits torsion points on periodic and preperiodic abelian varieties points of rational maps. There are a variety of topics covered in this volume but inevitably the choice reflects the author's tastes and interests Many related areas that also fall under the heading of arithmetic or algebraic dynamics have been omitted in order to keep the book to a manageable length A brief list of some of these omitted topics may be found in the introduction Online Resources The reader will find additional material references and errata at http www math brown ectu jhs ADSHome html Acknowledgments The author has consulted a great many sources in writing this book Every attempt has been made to give proper attribution for all but the most standard results Analysis, Geometry, Number Theory: The Mathematics of Leon Ehrenpreis Eric Grinberg, 2000 This book presents the proceedings from the conference honoring the work of Leon Ehrenpreis Professor Ehrenpreis worked in many different areas of mathematics and found connections among all of them For example one can find his analytic ideas in the context of number theory geometric thinking within analysis transcendental number theory applied to partial differential equations and more The conference brought together the communities of mathematicians working in the areas of interest to Professor Ehrenpreis and allowed them to share the research inspired by his work The collection of articles here presents current research on PDEs several complex variables analytic number theory integral geometry and tomography The work of Professor Ehrenpreis has contributed to basic definitions in these areas and has motivated a wealth of research results This volume offers a survey of the fundamental principles that unified the conference and influenced the mathematics of Leon Ehrenpreis Geometry and Dynamics of Groups and Spaces Mikhail Kapranov, Sergii Kolyada, Yu. I. Manin, Pieter Moree, Leonid Potyagailo, 2008-03-05 Alexander Reznikov 1960 2003 was a brilliant and highly original mathematician This book presents 18 articles by prominent mathematicians and is dedicated to his memory In addition it contains an influential so far unpublished manuscript by Reznikov of book length The book further provides an extensive survey on Kleinian groups in higher dimensions and some articles centering on Reznikov as a person **Introduction to Vertex Operator Algebras** and Their Representations James Lepowsky, Haisheng Li, 2004 Introduces the fundamental theory of vertex operator algebras and its basic techniques and examples Begins with a detailed presentation of the theoretical foundations and

proceeds to a range of applications Includes a number of new original results and brings fresh perspective to important works of many other researchers in algebra lie theory representation theory string theory quantum field theory and other areas of math and physics 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

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