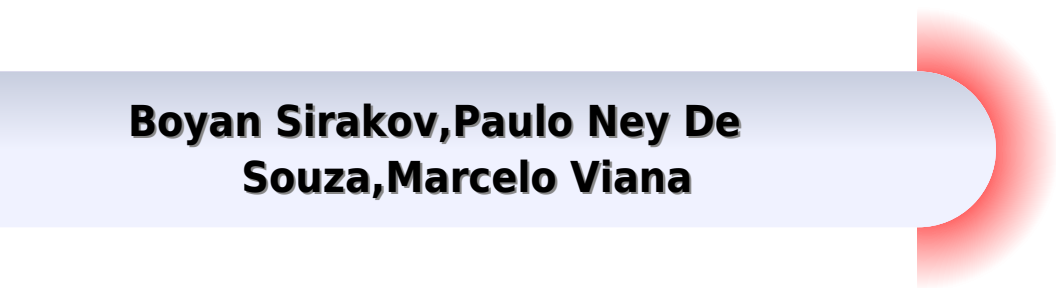


Representation Theory and Complex Geometry

Neil Chriss
Victor Ginzburg

Representation Theory And Complex Geometry Modern Birkhuser Classics

**Boyan Sirakov, Paulo Ney De
Souza, Marcelo Viana**



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Representation Theory and Complex Geometry Neil Chriss, Victor Ginzburg, 2009-12-24 The book is largely self contained There is a nice introduction to symplectic geometry and a charming exposition of equivariant K theory Both are enlivened by examples related to groups An attractive feature is the attempt to convey some informal wisdom rather than only the precise definitions As a number of results are due to the authors one finds some of the original excitement This is the only available introduction to geometric representation theory it has already proved successful in introducing a new generation to the subject Bulletin of the AMS

Geometry of Moduli Spaces and Representation Theory Roman Bezrukavnikov, Alexander Braverman, Zhiwei Yun, 2017-12-15 This book is based on lectures given at the Graduate Summer School of the 2015 Park City Mathematics Institute program Geometry of moduli spaces and representation theory and is devoted to several interrelated topics in algebraic geometry topology of algebraic varieties and representation theory Geometric representation theory is a young but fast developing research area at the intersection of these subjects An early profound achievement was the famous conjecture by Kazhdan Lusztig about characters of highest weight modules over a complex semi simple Lie algebra and its subsequent proof by Beilinson Bernstein and Brylinski Kashiwara Two remarkable features of this proof have inspired much of subsequent development intricate algebraic data turned out to be encoded in topological invariants of singular geometric spaces while proving this fact required deep general theorems from algebraic geometry Another focus of the program was enumerative algebraic geometry Recent progress showed the role of Lie theoretic structures in problems such as calculation of quantum cohomology K theory etc Although the motivation and technical background of these constructions is quite different from that of geometric Langlands duality both theories deal with topological invariants of moduli spaces of maps from a target of complex dimension one Thus they are at least heuristically related while several recent works indicate possible strong technical connections The main goal of this collection of notes is to provide young researchers and experts alike with an introduction to these areas of active research and promote interaction between the two related directions

An Invitation to Modern Enumerative Geometry Andrea T. Ricolfi, 2022-12-14 This book is based on a series of lectures given by the author at SISSA Trieste within the PhD courses Techniques in enumerative geometry 2019 and Localisation in enumerative geometry 2021 The goal of this book is to provide a gentle introduction aimed mainly at graduate students to the fast growing subject of enumerative geometry and more specifically counting invariants in algebraic geometry In addition to the more advanced techniques explained and applied in full detail to concrete calculations the book contains the proofs of several background results important for the foundations of the theory In this respect this text is conceived for PhD students or research beginners in the field of enumerative geometry or related areas This book can be read as an introduction to Hilbert schemes and Quot schemes on 3 folds but also as an introduction to localisation formulae in enumerative geometry It is meant to be accessible without a strong background in algebraic geometry however three

appendices one on deformation theory one on intersection theory one on virtual fundamental classes are meant to help the reader dive deeper into the main material of the book and to make the text itself as self contained as possible

Proceedings Of The International Congress Of Mathematicians 2018 (Icm 2018) (In 4 Volumes) Boyan Sirakov, Paulo Ney De Souza, Marcelo Viana, 2019-02-27 The Proceedings of the ICM publishes the talks by invited speakers at the conference organized by the International Mathematical Union every 4 years It covers several areas of Mathematics and it includes the Fields Medal and Nevanlinna Gauss and Leelavati Prizes and the Chern Medal laudatios Relative Aspects in Representation Theory, Langlands Functoriality and Automorphic Forms Volker Heiermann, Dipendra Prasad, 2018-10-01 This volume presents a panorama of the diverse activities organized by V Heiermann and D Prasad in Marseille at the CIRM for the Chaire Morlet event during the first semester of 2016 It assembles together expository articles on topics which previously could only be found in research papers Starting with a very detailed article by P Baumann and S Riche on the geometric Satake correspondence the book continues with three introductory articles on distinguished representations due to P Broussous F Murnaghan and O Offen an expository article of I Badulescu on the Jacquet Langlands correspondence a paper of J Arthur on functoriality and the trace formula in the context of Beyond Endoscopy taken from the Simons Proceedings an article of W W Li attempting to generalize Godement Jacquet theory and a research paper of C Moeglin and D Renard applying the trace formula to the local Langlands classification for classical groups The book should be of interest to students as well as professional researchers working in the broad area of number theory and representation theory **A Glimpse into Geometric Representation Theory** Mahir Bilen Can, Jörg Feldvoss, 2024-08-07 This volume contains the proceedings of the AMS Special Session on Combinatorial and Geometric Representation Theory held virtually on November 20 21 2021 The articles offer an engaging look into recent advancements in geometric representation theory Despite diverse subject matters a common thread uniting the articles of this volume is the power of geometric methods The authors explore the following five contemporary topics in geometric representation theory equivariant motivic Chern classes equivariant Hirzebruch classes and equivariant Chern Schwartz MacPherson classes of Schubert cells locally semialgebraic spaces Nash manifolds and their superspace counterparts support varieties of Lie superalgebras wreath Macdonald polynomials and equivariant extensions and solutions of the Deligne Simpson problem Each article provides a well structured overview of its topic highlighting the emerging theories developed by the authors and their colleagues *Compactifications, Configurations, and Cohomology* Peter Crooks, Alexandru I. Suciu, 2023-09-25 This volume contains the proceedings of the Conference on Compactifications Configurations and Cohomology held from October 22 24 2021 at Northeastern University Boston MA Some of the most active and fruitful mathematical research occurs at the interface of algebraic geometry representation theory and topology Noteworthy examples include the study of compactifications in three specific settings algebraic group actions configuration spaces and hyperplane arrangements These three types of compactifications enjoy

common structural features including relations to root systems combinatorial descriptions of cohomology rings the appearance of iterated blow ups the geometry of normal crossing divisors and connections to mirror symmetry in physics On the other hand these compactifications are often studied independently of one another The articles focus on new and existing connections between the aforementioned three types of compactifications thereby setting the stage for further research It draws on the discipline specific expertise of all contributors and at the same time gives a unified self contained reference for compactifications and related constructions in different contexts

Advances in the Mathematical Sciences

Megan Breit-Goodwin, Mee Seong Im, Kelly Jabbusch, Kuei-Nuan Lin, 2025-11-29 The book features the research talks and poster presentations delivered at the 2022 AWM Association for Women in Mathematics Research Symposium which was held at The Institute for Mathematics and Its Applications and the University of Minnesota June 16 19 2022 The symposium showcased research from women across the mathematical sciences working in academia government and industry as well as featured women across the career spectrum undergraduates graduate students postdocs and professionals

Representations of Reductive Groups Monica Nevins, Peter E. Trapa, 2015-12-18 Over the last forty years David Vogan has left an indelible imprint on the representation theory of reductive groups His groundbreaking ideas have led to deep advances in the theory of real and p -adic groups and have forged lasting connections with other subjects including number theory automorphic forms algebraic geometry and combinatorics *Representations of Reductive Groups* is an outgrowth of the conference of the same name dedicated to David Vogan on his 60th birthday which took place at MIT on May 19 23 2014 This volume highlights the depth and breadth of Vogan's influence over the subjects mentioned above and point to many exciting new directions that remain to be explored Notably the first article by McGovern and Trapa offers an overview of Vogan's body of work placing his ideas in a historical context Contributors Pramod N Achar Jeffrey D Adams Dan Barbasch Manjul Bhargava Cécile Bonnafant Dan Ciubotaru Meinolf Geck William Graham Benedict H Gross Xuhua He Jing Song Huang Toshiyuki Kobayashi Bertram Kostant Wenjing Li George Lusztig Eric Marberg William M McGovern Wilfried Schmid Kari Vilonen Diana Shelstad Peter E Trapa David A Vogan Jr Nolan R Wallach Xiaoheng Wang Geordie Williamson

Symmetry in Geometry and Analysis, Volume 3 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 third volume of the Festschrift contains original articles on branching problems in representation theory of reductive Lie groups and related topics Contributions are by Ali Baklouti Hidenori Fujiwara Dmitry Gourevitch Masatoshi Kitagawa Salma Nasrin Yoshiki Oshima and Petr Somberg

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