

# Algebraic and Combinatorial Methods in Representation Theory



The program will focus on various topics in representation theory, including representation theory of infinite-dimensional Lie (super)algebras, Quantum groups, and Vertex algebras. The program will provide an occasion to celebrate the fundamental contributions of Vajayanthi Chari, a pioneer in the subject who turns 65 this year.

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## Mini-courses

(13 November to 18 November 2023)

- Vertex algebras and associated varieties (Anne Moreau, Université Paris-Saclay, France)
- Representations of quantum affine algebras and Yangians (Arun Ram, University of Melbourne, Australia)
- Representations of quantum superalgebras and their crystal bases (Jae-Hoon Kwon, Seoul National University, Republic of Korea)
- The eigenvalue problem for reductive groups (Shrawan Kumar, University of North Carolina at Chapel Hill, USA)

## Program

(20 November to 24 November 2023)

Algebraic and Combinatorial Methods in Representation Theory

Registration Deadline: June 15, 2023

# Combinatorial Methods In Representation Theory

**Francis Comets**



## **Combinatorial Methods In Representation Theory:**

*Combinatorial Methods in Representation Theory* Kazuhiko Koike, 2000 This volume is a collection of papers written by the speakers of two international conferences held at the Research Institute for Mathematical Sciences RIMS at Kyoto University Japan Included are articles and surveys treating representations of affine Hecke algebras and affine Lie algebras combinatorial properties of Kazhdan Lusztig polynomials crystals and Gelfand Zetland bases for Lie super algebras etc

Combinatorial methods in representation theory and their applications Daisuke Sagaki, 2005      **Combinatorial Methods in the Representation Theory of the Symmetric Group** Liam Jolliffe, 2022      **Combinatorial Methods in Topology and Algebra** Bruno Benedetti, Emanuele Delucchi, Luca Moci, 2015-10-31 Combinatorics plays a prominent role in contemporary mathematics due to the vibrant development it has experienced in the last two decades and its many interactions with other subjects This book arises from the INdAM conference CoMeTA 2013 Combinatorial Methods in Topology and Algebra which was held in Cortona in September 2013 The event brought together emerging and leading researchers at the crossroads of Combinatorics Topology and Algebra with a particular focus on new trends in subjects such as hyperplane arrangements discrete geometry and combinatorial topology polytope theory and triangulations of manifolds combinatorial algebraic geometry and commutative algebra algebraic combinatorics and combinatorial representation theory The book is divided into two parts The first expands on the topics discussed at the conference by providing additional background and explanations while the second presents original contributions on new trends in the topics addressed by the conference      *Polynomial Identities And Combinatorial Methods* Antonio Giambruno, Amitai Regev, Mikhail Zaicev, 2003-05-20 Polynomial Identities and Combinatorial Methods presents a wide range of perspectives on topics ranging from ring theory and combinatorics to invariant theory and associative algebras It covers recent breakthroughs and strategies impacting research on polynomial identities and identifies new concepts in algebraic combinatorics invariant and representation theory and Lie algebras and superalgebras for novel studies in the field It presents intensive discussions on various methods and techniques relating the theory of polynomial identities to other branches of algebraic study and includes discussions on Hopf algebras and quantum polynomials free algebras and Scheier varieties      **Representation Theory and Algebraic Geometry** A. Martsinkovsky, Gordana Todorov, 1997-05-15 For any researcher working in representation theory algebraic or arithmetic geometry      *Combinatorial and Geometric Representation Theory* Seok-Jin Kang, Kyu-Hwan Lee, 2003 This volume presents the proceedings of the international conference on Combinatorial and Geometric Representation Theory In the field of representation theory a wide variety of mathematical ideas are providing new insights giving powerful methods for understanding the theory and presenting various applications to other branches of mathematics Over the past two decades there have been remarkable developments This book explains the strong connections between combinatorics geometry and representation theory It is suitable for graduate students and researchers interested in

representation theory Computational Methods for Representations of Groups and Algebras P. Dräxler, Gerhard Michler, Claus Michael Ringel, 1999 **Proceedings of the Third International Algebra Conference** Yuen Fong, Long-Sheng Shiao, Efim Zelmanov, 2003-07-31 This new proceedings is a collection of papers presenting the recent developments and research in various fields of algebra especially Lie Algebras Rings and their related topics undertaken in the U S A Russia North Asia and Israel Contributors include E Zelmanov the 1994 Fields Medalist L Bokut G nter F Pilz Koichiro Harada Alexander Kemer V K Kharchenko L Makar Limanov and Louis H Rowen *Combinatorics, Representation Theory, and Statistical Methods in Groups* Alfred Young, 1980 Representation Theory of Finite Groups and Finite-Dimensional Algebras Michler, Ringel, 2012-12-06 From April 1 1984 until March 31 1991 the Deutsche Forschungsgemeinschaft has sponsored the project Representation Theory of Finite Groups and Finite Dimensional Algebras The proposal for this project was submitted by B Huppert Mainz B Fischer Bielefeld G Michler Essen H Pahlings Aachen and C M Ringel Bielefeld in order to strengthen the interaction between the different research areas in representation theory The Deutsche Forschungsgemeinschaft has given many research positions and fellowships for young algebraists enabling them to do research at their own universities or as visitors at well known research institutions in America Australia England and France The whole project benefitted very much from an extensive exchange programme between German and American scientists sponsored by the Deutsche Forschungsgemeinschaft and by the National Science Foundation of the United States This volume presents lectures given in a final conference and reports by members of the project It is divided into two parts The first part contains seven survey articles describing recent advances in different areas of representation theory These articles do not only concentrate on the work done by the German research groups but also inform on major developments of the subject at all The volume omits those topics already treated in book form In particular it does not contain a survey on K

The Mathematical Legacy of Richard P. Stanley Patricia Hersh, Thomas Lam, Pavlo Pylyavskyy, Victor Reiner, 2016-12-08 Richard Stanley s work in combinatorics revolutionized and reshaped the subject His lectures papers and books inspired a generation of researchers In this volume these researchers explain how Stanley s vision and insights influenced and guided their own perspectives on the subject As a valuable bonus this book contains a collection of Stanley s short comments on each of his papers This book may serve as an introduction to several different threads of ongoing research in combinatorics as well as giving historical perspective **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 *Representation Theory*  
Amritanshu Prasad,2015-02-05 This book examines the fundamental results of modern combinatorial representation theory  
The exercises are interspersed with text to reinforce readers understanding of the subject In addition each exercise is  
assigned a difficulty level to test readers learning Solutions and hints to most of the exercises are provided at the end

**Combinatorial Methods in Topology and Algebraic Geometry** John R. Harper,Richard Mandelbaum,1985 This  
collection marks the recent resurgence of interest in combinatorial methods resulting from their deep and diverse  
applications both in topology and algebraic geometry Nearly thirty mathematicians met at the University of Rochester in  
1982 to survey several of the areas where combinatorial methods are proving especially fruitful topology and combinatorial  
group theory knot theory 3 manifolds homotopy theory and infinite dimensional topology and four manifolds and algebraic  
surfaces This material is accessible to advanced graduate students with a general course in algebraic topology along with  
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directions still to be explored as well as the aesthetic pleasures of seeing the interplay between algebra and topology which  
is characteristic of this field In several areas the book contains the first general exposition published on the subject In  
topology for example the editors have included M Cohen W Metzler and K Sauerman s article on Collapses of  $K$  times  $I$  and  
group presentations and Metzler s On the Andrews Curtis Conjecture and related problems In addition J M Montesino has  
provided summary articles on both 3 and 4 manifolds **How to Count** Robert A. Beeler,2015-03-14 Providing a self  
contained resource for upper undergraduate courses in combinatorics this text emphasizes computation problem solving and  
proof technique In particular the book places special emphasis the Principle of Inclusion and Exclusion and the Multiplication  
Principle To this end exercise sets are included at the end of every section ranging from simple computations evaluate a  
formula for a given set of values to more advanced proofs The exercises are designed to test students understanding of new  
material while reinforcing a working mastery of the key concepts previously developed in the book Intuitive descriptions for  
many abstract techniques are included Students often struggle with certain topics such as generating functions and this  
intuitive approach to the problem is helpful in their understanding When possible the book introduces concepts using  
combinatorial methods as opposed to induction or algebra to prove identities Students are also asked to prove identities  
using combinatorial methods as part of their exercises These methods have several advantages over induction or algebra

Directed Polymers in Random Environments Francis Comets,2017-01-26 Analyzing the phase transition from diffusive to  
localized behavior in a model of directed polymers in a random environment this volume places particular emphasis on the  
localization phenomenon The main question is What does the path of a random walk look like if rewards and penalties are  
spatially randomly distributed This model which provides a simplified version of stretched elastic chains pinned by random

impurities has attracted much research activity but it and its relatives still holds many secrets especially in high dimensions It has non gaussian scaling limits and it belongs to the so called KPZ universality class when the space is one dimensional Adopting a Gibbsian approach using general and powerful tools from probability theory the discrete model is studied in full generality Presenting the state of the art from different perspectives and written in the form of a first course on the subject this monograph is aimed at researchers in probability or statistical physics but is also accessible to masters and Ph D students *Mathematical Reviews*, 2007

**Representation Theory and Dynamical Systems** Anatoliï Moiseevich Vershik, 1992 This volume presents research conducted between 1989 and 1991 by the participants in the Leningrad Seminar on representation theory dynamical systems and their applications headed by A M Vershik The primary areas covered here are mathematical physics Lie groups and their representations infinite dimensional groups topology and dynamical systems The book contains a number of useful introductory surveys for example one paper by Vaksman and Soibelman provides a systematic description of the theory of quantum groups in the spirit of representation theory a new and popular area for which there are few introductory surveys A portion of the book is devoted to adic transformations and substitutions a new area of ergodic theory With a balance of survey papers and frontier research results this book will appeal to graduate students and researchers alike

**Young Tableaux in Combinatorics, Invariant Theory, and Algebra** Joseph P.S. Kung, 2014-05-12 Young Tableaux in Combinatorics Invariant Theory and Algebra An Anthology of Recent Work is an anthology of papers on Young tableaux and their applications in combinatorics invariant theory and algebra Topics covered include reverse plane partitions and tableau hook numbers some partitions associated with a partially ordered set frames and Baxter sequences and Young diagrams and ideals of Pfaffians Comprised of 16 chapters this book begins by describing a probabilistic proof of a formula for the number  $f$  of standard Young tableaux of a given shape  $f$  The reader is then introduced to the generating function of R P Stanley for reverse plane partitions on a tableau shape an analog of Schensted's algorithm relating permutations and triples consisting of two shifted Young tableaux and a set and a variational problem for random Young tableaux Subsequent chapters deal with certain aspects of Schensted's construction and the derivation of the Littlewood Richardson rule for the multiplication of Schur functions using purely combinatorial methods monotonicity and unimodality of the pattern inventory and skew symmetric invariant theory This volume will be helpful to students and practitioners of algebra

## Reviewing **Combinatorial Methods In Representation Theory**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Combinatorial Methods In Representation Theory**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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