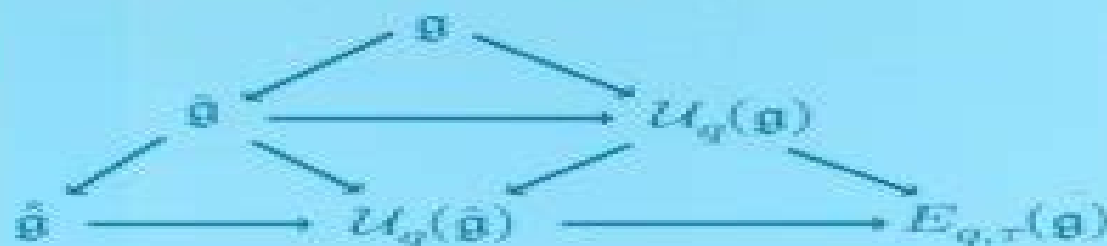


# Lectures on Representation Theory and Knizhnik-Zamolodchikov Equations

Pavel I. Etingof  
Igor B. Frenkel  
Alexander A. Kirillov, Jr.



American Mathematical Society

# Lectures On Representation Theory

**Gustave Choquet**



## **Lectures On Representation Theory:**

### **Lectures on Representation Theory and Knizhnik-Zamolodchikov Equations** Pavel I. Etingof, Igor

Frenkel, Alexander A. Kirillov, 1998 This text is devoted to mathematical structures arising in conformal field theory and the  $q$  deformations The authors give a self contained exposition of the theory of Knizhnik Zamolodchikov equations and related topics No previous knowledge of physics is required The text is suitable for a one semester graduate course and is intended for graduate students and research mathematicians interested in mathematical physics *Lectures on Representation*

*Theory* Jing-Song Huang, 1999 This book is an expanded version of the lectures given at the Nankai Mathematical Summer School in 1997 It provides an introduction to Lie groups Lie algebras and their representations as well as introduces some directions of current research for graduate students who have little specialized knowledge in representation theory It only assumes that the reader has a good knowledge of linear algebra and some basic knowledge of abstract algebra Parts I III of the book cover the relatively elementary material of representation theory of finite groups simple Lie algebras and compact Lie groups These theories are natural continuation of linear algebra The last chapter of Part III includes some recent results on extension of Weyl's construction to exceptional groups Part IV covers some advanced material on infinite dimensional representations of non compact groups such as the orbit method minimal representations and dual pair correspondences which introduces some directions of the current research in representation theory *Representation Theory* William

Fulton, Joe Harris, 2013-12-01 The primary goal of these lectures is to introduce a beginner to the finite dimensional representations of Lie groups and Lie algebras Since this goal is shared by quite a few other books we should explain in this Preface how our approach differs although the potential reader can probably see this better by a quick browse through the book Representation theory is simple to define it is the study of the ways in which a given group may act on vector spaces It is almost certainly unique however among such clearly delineated subjects in the breadth of its interest to mathematicians This is not surprising group actions are ubiquitous in 20th century mathematics and where the object on which a group acts is not a vector space we have learned to replace it by one that is e.g a cohomology group tangent space etc As a consequence many mathematicians other than specialists in the field or even those who think they might want to be come in contact with the subject in various ways It is for such people that this text is designed To put it another way we intend this as a book for beginners to learn from and not as a reference This idea essentially determines the choice of material covered here As simple as is the definition of representation theory given above it fragments considerably when we try to get more specific

### **Lectures on Analysis** Gustave Choquet, 1969

### **Expository Lectures on Representation Theory** Kiyoshi Igusa, Alex

Martsinkovsky, Gordana Todorov, 2014-01-16 This volume contains the proceedings of the Maurice Auslander Distinguished Lectures and International Conference held April 25 30 2012 in Falmouth MA The representation theory of finite dimensional algebras and related topics especially cluster combinatorics is a very active topic of research This volume contains papers

covering both the history and the latest developments in this topic In particular Otto Kerner gives a review of basic theorems and latest results about wild hereditary algebras Yuri Berest develops the theory of derived representation schemes and Markus Schmidmeier presents new applications of arc diagrams

*Representation Theory of Lie Groups* Jeffrey Adams, David Vogan, 2015-06-02 This book contains written versions of the lectures given at the PCMI Graduate Summer School on the representation theory of Lie groups The volume begins with lectures by A Knapp and P Trapa outlining the state of the subject around the year 1975 specifically the fundamental results of Harish Chandra on the general structure of infinite dimensional representations and the Langlands classification Additional contributions outline developments in four of the most active areas of research over the past 20 years The clearly written articles present results to date as follows R Zierau and L Barchini discuss the construction of representations on Dolbeault cohomology spaces D Vogan describes the status of the Kirillov Kostant philosophy of coadjoint orbits for unitary representations K Vilonen presents recent advances in the Beilinson Bernstein theory of localization And Jian Shu Li covers Howe's theory of dual reductive pairs Each contributor to the volume presents the topics in a unique comprehensive and accessible manner geared toward advanced graduate students and researchers Students should have completed the standard introductory graduate courses for full comprehension of the work The book would also serve well as a supplementary text for a course on introductory infinite dimensional representation theory Titles in this series are co published with the Institute for Advanced Study Park City Mathematics Institute Members of the Mathematical Association of America MAA and the National Council of Teachers of Mathematics NCTM receive a 20% discount from list price

*Lectures on Analysis: Representation theory* Gustave Choquet, 1969 This book is an expansion and revision of lecture notes from Professor Choquet's course in analysis given at Princeton during the fall term in 1967 Although details are now given and a few extra results and additional problems with hints and solutions have been added the main content of the book is the same as that given in the lectures The book is intended for graduate students in analysis and for use as a reference text for research workers in the field The book is also intended for a selected one term course at the graduate level however to cover all the material in the book would probably require a year's course for the average student

**Iwahori-Hecke Algebras and Their Representation Theory** Ivan Cherednik, 2002-12-19 Two basic problems of representation theory are to classify irreducible representations and decompose representations occurring naturally in some other context Algebras of Iwahori Hecke type are one of the tools and were probably first considered in the context of representation theory of finite groups of Lie type This volume consists of notes of the courses on Iwahori Hecke algebras and their representation theory given during the CIME summer school which took place in 1999 in Martina Franca Italy

**Geometric Representation Theory and Extended Affine Lie Algebras** Erhard Neher, Alistair Savage, Weiqiang Wang, 2011 Lie theory has connections to many other disciplines such as geometry number theory mathematical physics and algebraic combinatorics The interaction between algebra geometry and combinatorics has proven to be extremely powerful

in shedding new light on each of these areas This book presents the lectures given at the Fields Institute Summer School on Geometric Representation Theory and Extended Affine Lie Algebras held at the University of Ottawa in 2009 It provides a systematic account by experts of some of the exciting developments in Lie algebras and representation theory in the last two decades It includes topics such as geometric realizations of irreducible representations in three different approaches combinatorics and geometry of canonical and crystal bases finite W algebras arising as the quantization of the transversal slice to a nilpotent orbit structure theory of extended affine Lie algebras and representation theory of affine Lie algebras at level zero This book will be of interest to mathematicians working in Lie algebras and to graduate students interested in learning the basic ideas of some very active research directions The extensive references in the book will be helpful to guide non experts to the original sources

*Highest Weight Representations Of Infinite Dimensional Lie Algebra* Victor G Kac, Ashok K Raina, 1988-04-01 This book is a collection of a series of lectures given by Prof V Kac at Tata Institute India in Dec 85 and Jan 86 These lectures focus on the idea of a highest weight representation which goes through four different incarnations The first is the canonical commutation relations of the infinite dimensional Heisenberg Algebra oscillator algebra The second is the highest weight representations of the Lie algebra  $gl$  of infinite matrices along with their applications to the theory of soliton equations discovered by Sato and Date Jimbo Kashiwara and Miwa The third is the unitary highest weight representations of the current affine Kac Moody algebras These algebras appear in the lectures twice in the reduction theory of soliton equations KP KdV and in the Sugawara construction as the main tool in the study of the fourth incarnation of the main idea the theory of the highest weight representations of the Virasoro algebra This book should be very useful for both mathematicians and physicists To mathematicians it illustrates the interaction of the key ideas of the representation theory of infinite dimensional Lie algebras and to physicists this theory is turning into an important component of such domains of theoretical physics as soliton theory theory of two dimensional statistical models and string theory

*Lectures on Analysis* Gustave Choquet, 1969 **Representation Theory and Complex Analysis** Michael Cowling, Edward Frenkel, Masaki Kashiwara, Alain Valette, David A. Vogan, Nolan R. Wallach, 2008-02-22 Six leading experts lecture on a wide spectrum of recent results on the subject of the title They present a survey of various interactions between representation theory and harmonic analysis on semisimple groups and symmetric spaces and recall the concept of amenability They further illustrate how representation theory is related to quantum computing and much more Taken together this volume provides both a solid reference and deep insights on current research activity

*Forty Years Of Algebraic Groups, Algebraic Geometry, And Representation Theory In China: In Memory Of The Centenary Year Of Xihua Cao's Birth* Jie Du, Jianpan Wang, Lei Lin, 2022-10-21 Professor Xihua Cao 1920 2005 was a leading scholar at East China Normal University ECNU and a famous algebraist in China His contribution to the Chinese academic circle is particularly the formation of a world renowned ECNU School in algebra covering research areas include algebraic groups quantum groups

algebraic geometry Lie algebra algebraic number theory representation theory and other hot fields In January 2020 in order to commemorate Professor Xihua Cao's centenary birthday East China Normal University held a three day academic conference Scholars at home and abroad gave dedications or delivered lectures in the conference This volume originates from the memorial conference collecting the dedications of scholars reminiscences of family members and 16 academic articles written based on the lectures in the conference covering a wide range of research hot topics in algebra The book shows not only scholars respect and memory for Professor Xihua Cao but also the research achievements of Chinese scholars at home and abroad

Complex Semisimple Quantum Groups and Representation Theory Christian Voigt, Robert Yuncken, 2020-09-24 This book provides a thorough introduction to the theory of complex semisimple quantum groups that is Drinfeld doubles of  $q$  deformations of compact semisimple Lie groups The presentation is comprehensive beginning with background information on Hopf algebras and ending with the classification of admissible representations of the  $q$  deformation of a complex semisimple Lie group The main components are a thorough introduction to quantized universal enveloping algebras over general base fields and generic deformation parameters including finite dimensional representation theory the Poincaré Birkhoff Witt Theorem the locally finite part and the Harish Chandra homomorphism the analytic theory of quantized complex semisimple Lie groups in terms of quantized algebras of functions and their duals algebraic representation theory in terms of category  $O$  and analytic representation theory of quantized complex semisimple groups Given its scope the book will be a valuable resource for both graduate students and researchers in the area of quantum groups

**A Journey Through Representation Theory** Caroline Gruson, Vera Serganova, 2018-10-23 This text covers a variety of topics in representation theory and is intended for graduate students and more advanced researchers who are interested in the field The book begins with classical representation theory of finite groups over complex numbers and ends with results on representation theory of quivers The text includes in particular infinite dimensional unitary representations for abelian groups Heisenberg groups and  $SL_2$  and representation theory of finite dimensional algebras The last chapter is devoted to some applications of quivers including Harish Chandra modules for  $SL_2$  Ample examples are provided and some are revisited with a different approach when new methods are introduced leading to deeper results Exercises are spread throughout each chapter Prerequisites include an advanced course in linear algebra that covers Jordan normal forms and tensor products as well as basic results on groups and rings

Lectures On  $SL_2(\mathbb{C})$ -modules Volodymyr Mazorchuk, 2009-12-04 This book is directed primarily at undergraduate and postgraduate students interested to get acquainted with the representation theory of Lie algebras The book treats the case of the smallest simple Lie algebra namely the Lie algebra  $sl_2$  It contains classical contents including the description of all finite dimensional modules and an introduction to the universal enveloping algebras with its primitive ideals alongside non classical contents including the description of all simple weight modules the category of all weight modules a detailed description of the category  $O$  and

especially a description of all simple modules The book also contains an account of a new research direction the categorification of simple finite dimensional modules a      *Representation Theory of Algebras and Related Topics* Raymundo Bautista,Roberto Martínez-Villa,José Antonio de la Peña,1996 The 14 selected papers discuss recent thinking and findings on the representation theory of algebras and its interaction with other areas of mathematics such as algebraic geometry ring theory and the representation of groups The topics include coils and multicoil algebras representations of wild quivers the Tits form of a tame algebra almost split sequences and triangles for Artin algebras and orders and using approximations to analyze the structure of representations No index Members of the Canadian Mathematical Society may order at the AMS member price of 57 Annotation copyright by Book News Inc Portland OR      **Group Theory And Hopf Algebras: Lectures For Physicists** Aiyalam P Balachandran,Sang G Jo,Giuseppe Marmo,2010-07-22 This book is addressed to graduate students and research workers in theoretical physics who want a thorough introduction to group theory and Hopf algebras It is suitable for a one semester course in group theory or a two semester course which also treats advanced topics Starting from basic definitions it goes on to treat both finite and Lie groups as well as Hopf algebras Because of the diversity in the choice of topics which does not place undue emphasis on finite or Lie groups it should be useful to physicists working in many branches A unique aspect of the book is its treatment of Hopf algebras in a form accessible to physicists Hopf algebras are generalizations of groups and their concepts are acquiring importance in the treatment of conformal field theories noncommutative spacetimes topological quantum computation and other important domains of investigation But there is a scarcity of treatments of Hopf algebras at a level and in a manner that physicists are comfortable with This book addresses this need superbly There are illustrative examples from physics scattered throughout the book and in its set of problems It also has a good bibliography These features should enhance its value to readers The authors are senior physicists with considerable research and teaching experience in diverse aspects of fundamental physics The book being the outcome of their combined efforts stands testament to their knowledge and pedagogical skills      **Representation Theory of Lie Algebras.** Gerhard P. (Gerhard Paul) Hochschild,2021-09-09 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public To ensure a quality reading experience this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy to read typeface We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant      *Ottawa Lectures on Admissible Representations of Reductive P-adic Groups* Clifton Cunningham,Monica Nevins,2009-01-01

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