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Representations of Finite Chevalley Groups

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A Survey

 **Springer**

Representations Of Finite Chevalley Groups

Cédric Bonnafé



Representations Of Finite Chevalley Groups:

Representations of Finite Chevalley Groups B. Srinivasan, 2006-11-14 *Representations of Finite Chevalley Groups* B. Srinivasan, 2014-09-01 **Representations of Finite Chevalley Groups** George Lusztig, 1978 The notes came from a series of lectures given by the author at a CBMS Regional Conference held at Madison Wisconsin in August 1977 The main purpose of the notes was to show how l adic cohomology of algebraic varieties over fields of positive characteristic can be used to obtain information on the representations of finite Chevalley groups *Representations of finite Chevalley groups* Bhama Srinivasan, 1979 *Representations of Finite Chevalley Groups* James E. Humphreys, 1976 *Vertices of irreducible representations of finite chevalley groups in the describing characteristic* Richard Dipper, 1980 **On Some Problems in Representation Theory of Finite Chevalley Groups** Corneliu Hoffman, 1998 **Modular Representations of Finite Groups of Lie Type** James E. Humphreys, 2006 A comprehensive treatment of the representation theory of finite groups of Lie type over a field of the defining prime characteristic *The Arcata Conference on Representations of Finite Groups, Part 1* Paul Fong, 1987 The papers in these proceedings of the 1986 Arcata Summer Institute bear witness to the extraordinarily vital and intense research in the representation theory of finite groups The confluence of diverse mathematical disciplines has brought forth work of great scope and depth Particularly striking is the influence of algebraic geometry and cohomology theory in the modular representation theory and the character theory of reductive groups over finite fields and in the general modular representation theory of finite groups The continuing developments in block theory and the general character theory of finite groups is noteworthy The expository and research aspects of the Summer Institute are well represented by these papers *Ordinary and Modular Representations of Chevalley Groups* J. E. Humphreys, 2006-11-14 *Representations of Groups* Bruce Normansell Allison, Gerald Howard Cliff, Canadian Mathematical Society, 1995 Survey and research articles from the June 1994 seminar address representations of Lie algebraic finite and quantum groups and the relationships among these areas Topics include complex reflection groups and their associated braid groups automata to perform basic calculations in Coxeter groups Heck algebras and representations of finite reductive groups and Koszul algebras and duality Of interest to graduate students and research mathematicians No index Annotation copyright by Book News Inc Portland OR

Groups, Combinatorics & Geometry A. A. Ivanov, Martin W. Liebeck, Jan Saxl, 2003 This book contains the proceedings of the L M S Durham Symposium on Groups Geometry and Combinatorics July 16 26 2001 P v **Representations of Algebraic Groups** Jens Carsten Jantzen, 2003-01-01 Now back in print by the AMS this is a significantly revised edition of a book originally published in 1987 by Academic Press This book gives the reader an introduction to the theory of algebraic representations of reductive algebraic groups To develop appropriate techniques the first part of the book is an introduction to the general theory of representations of algebraic group schemes Here the author describes important basic notions induction functors cohomology quotients Frobenius kernels and reduction mod p among others The second part of the book is

devoted to the representation theory of reductive algebraic groups It includes topics such as the description of simple modules vanishing theorems the Borel Bott Weil theorem and Weyl's character formula and Schubert schemes and line bundles on them For this revised edition the author added nearly 150 pages of new material describing some later developments among them Schur algebras Lusztig's conjecture and Kazhdan Lusztig polynomials tilting modules and representations of quantum groups He also made major revisions to parts of the old text Jantzen's book continues to be the ultimate source of information on representations of algebraic groups in finite characteristics It is suitable for graduate students and research mathematicians interested in algebraic groups and their representations

Galois Theory, Rings, Algebraic Groups and Their Applications Simeon Ivanov, 1992 This collection consists of original work on Galois theory rings and algebras algebraic geometry group representations algebraic K theory and some of their applications

Low Rank Representations and Graphs for Sporadic Groups Cheryl E. Praeger, Leonard H. Soicher, 1996-12-05 This book presents a complete classification of the transitive permutation representations of rank at most five of the sporadic simple groups and their automorphism groups together with a comprehensive study of the vertex transitive graphs associated with these representations Included is a list of all vertex transitive distance regular graphs on which a sporadic almost simple group acts with rank at most five In this list are some new interesting distance regular graphs of diameter two which are not distance transitive For most of the representations a presentation of the sporadic group is given with words in the given generators which generate a point stabiliser this gives readers sufficient information to reconstruct and study the representations and graphs Practical computational techniques appropriate for analysing finite vertex transitive graphs are described carefully making the book an excellent starting point for learning about groups and the graphs on which they act

Ischia Group Theory 2010 - Proceedings Of The Conference Mariagrazia Bianchi, Patrizia Longobardi, Mercede Maj, Carlo Maria Scoppola, 2011-09-01 The papers in this volume represent the proceedings of the Conference entitled Ischia Group Theory 2010 which took place at NH Ischia Thermal SPA Resort Ischia Naples Italy from April 14 to April 17 2010 The articles in this volume are contributions by speakers and participants of the Conference The volume contains a collection of research articles by leading experts in group theory and some accessible surveys of recent research in the area Together they provide an overview of the diversity of themes and applications that interest group theorists today Topics covered in this volume include finite p groups character and representation theory combinatorial group theory varieties of groups profinite and pro p groups linear groups graphs connected with groups subgroup structure finiteness conditions radical rings conjugacy classes automorphisms

Representation Theory of Algebraic Groups and Quantum Groups Akihiko Gyoja, Hiraku Nakajima, Ken-ichi Shinoda, Toshiaki Shoji, Toshiyuki Tanisaki, 2010-11-25 Invited articles by top notch experts Focus is on topics in representation theory of algebraic groups and quantum groups Of interest to graduate students and researchers in representation theory group theory algebraic geometry quantum theory and math physics

Irreducible Geometric

Subgroups of Classical Algebraic Groups Timothy C. Burness,,Soumaïa Ghandour,Donna M. Testerman,2016-01-25 Let G be a simple classical algebraic group over an algebraically closed field of characteristic p with natural module V . Let H be a closed subgroup of G and let W be a non trivial irreducible tensor indecomposable restricted rational module such that the restriction of W to H is irreducible. In this paper the authors classify the triples (G, H, W) where H is a disconnected maximal positive dimensional closed subgroup of G preserving a natural geometric structure on W .

Representations of $SL_2(\mathbb{F}_q)$ Cédric Bonnafé,2010-10-08 Deligne Lusztig theory aims to study representations of finite reductive groups by means of geometric methods and particularly ℓ adic cohomology. Many excellent texts present with different goals and perspectives this theory in the general setting. This book focuses on the smallest non trivial example namely the group $SL_2(\mathbb{F}_q)$ which not only provides the simplicity required for a complete description of the theory but also the richness needed for illustrating the most delicate aspects. The development of Deligne Lusztig theory was inspired by Drinfeld's example in 1974 and Representations of $SL_2(\mathbb{F}_q)$ is based upon this example and extends it to modular representation theory. To this end the author makes use of fundamental results of ℓ adic cohomology. In order to efficiently use this machinery a precise study of the geometric properties of the action of $SL_2(\mathbb{F}_q)$ on the Drinfeld curve is conducted with particular attention to the construction of quotients by various finite groups. At the end of the text a succinct overview without proof of Deligne Lusztig theory is given as well as links to examples demonstrated in the text. With the provision of both a gentle introduction and several recent materials for instance Rouquier's theorem on derived equivalences of geometric nature this book will be of use to graduate and postgraduate students as well as researchers and lecturers with an interest in Deligne Lusztig theory.

Lie Algebras and Related Topics Georgia Benkart,J. Marshall Osborn,1990 Discusses the problem of determining the finite dimensional simple Lie algebras over an algebraically closed field of characteristic $p \neq 7$. This book includes topics such as Lie algebras of prime characteristic algebraic groups combinatorics and representation theory and Kac Moody and Virasoro algebras.

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