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## Reductive Subgroups of Exceptional Algebraic Groups

Martin W. Liebeck  
Gary M. Seitz



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# Reductive Subgroups Of Exceptional Algebraic Groups

**Donna M. Testerman**



## Reductive Subgroups Of Exceptional Algebraic Groups:

**Reductive Subgroups of Exceptional Algebraic Groups** Martin W. Liebeck, Gary M. Seitz, 1996 The theory of simple algebraic groups is important in many areas of mathematics The authors of this book investigate the subgroups of certain types of simple algebraic groups and obtain a complete description of all those subgroups which are themselves simple This description is particularly useful in understanding centralizers of subgroups and restrictions of representations The Irreducible Subgroups of Exceptional Algebraic Groups Adam R. Thomas, 2021-06-18 This paper is a contribution to the study of the subgroup structure of exceptional algebraic groups over algebraically closed fields of arbitrary characteristic Following Serre a closed subgroup of a semisimple algebraic group  $G$  is called irreducible if it lies in no proper parabolic subgroup of  $G$  In this paper we complete the classification of irreducible connected subgroups of exceptional algebraic groups providing an explicit set of representatives for the conjugacy classes of such subgroups Many consequences of this classification are also given These include results concerning the representations of such subgroups on various  $G$  modules for example the conjugacy classes of irreducible connected subgroups are determined by their composition factors on the adjoint module of  $G$  with one exception A result of Liebeck and Testerman shows that each irreducible connected subgroup  $X$  of  $G$  has only finitely many overgroups and hence the overgroups of  $X$  form a lattice We provide tables that give representatives of each conjugacy class of connected overgroups within this lattice structure We use this to prove results concerning the subgroup structure of  $G$  for example when the characteristic is 2 there exists a maximal connected subgroup of  $G$  containing a conjugate of every irreducible subgroup  $A_1$  of  $G$  On Non-Generic Finite Subgroups of Exceptional Algebraic Groups Alastair J. Litterick, 2018-05-29 The study of finite subgroups of a simple algebraic group  $G$  reduces in a sense to those which are almost simple If an almost simple subgroup of  $G$  has a socle which is not isomorphic to a group of Lie type in the underlying characteristic of  $G$  then the subgroup is called non generic This paper considers non generic subgroups of simple algebraic groups of exceptional type in arbitrary characteristic **A\_1 Subgroups of Exceptional Algebraic Groups** Ross Lawther, Donna M. Testerman, 1999 This book is intended for graduate students and research mathematicians interested in group theory and generalizations Maximal Subgroups of Exceptional Algebraic Groups Gary M. Seitz, 1991 Let  $G$  be a simple algebraic group of exceptional type over an algebraically closed field of characteristic  $p$  The subgroups of  $G$  maximal with respect to being closed and connected are determined although mild restrictions on  $p$  are required in dealing with certain simple subgroups of low rank For  $p = 0$  we recover the results of Dynkin *The Reductive Subgroups of  $F_4$*  David I. Stewart, 2013-04-22 Let  $G$  be a simple algebraic group defined over an algebraically closed field  $K$  of characteristic  $p \geq 0$  A subgroup  $X$  of  $G$  is said to be  $G$  completely reducible if whenever it is contained in a parabolic subgroup of  $G$  it is contained in a Levi subgroup of that parabolic A subgroup  $X$  of  $G$  is said to be  $G$  irreducible if  $X$  is in no proper parabolic subgroup of  $G$  and  $G$  reducible if it is in some proper parabolic of  $G$  In this paper the author

considers the case that  $G/F_4K$  The author finds all conjugacy classes of closed connected semisimple  $G$  reducible subgroups  $X$  of  $G$  Thus he also finds all non  $G$  completely reducible closed connected semisimple subgroups of  $G$  When  $X$  is closed connected and simple of rank at least two he finds all conjugacy classes of  $G$  irreducible subgroups  $X$  of  $G$  Together with the work of Amende classifying irreducible subgroups of type  $A_1$  this gives a complete classification of the simple subgroups of  $G$  The author also uses this classification to find all subgroups of  $G/F_4$  which are generated by short root elements of  $G$  by utilising and extending the results of Liebeck and Seitz

**Algebraic Groups and their Representations** R.W. Carter, J. Saxl, 2012-12-06 This volume contains 19 articles written by speakers at the Advanced Study Institute on Modular representations and subgroup structure of algebraic groups and related finite groups held at the Isaac Newton Institute Cambridge from 23rd June to 4th July 1997 We acknowledge with gratitude the financial support given by the NATO Science Committee to enable this ASI to take place Generous financial support was also provided by the European Union We are also pleased to acknowledge funds given by EPSRC to the Newton Institute which were used to support the meeting It is a pleasure to thank the Director of the Isaac Newton Institute Professor Keith Moffatt and the staff of the Institute for their dedicated work which did so much to further the success of the meeting The editors wish to thank Dr Ross Lawther and Dr Nick Inglis most warmly for their help in the production of this volume Dr Lawther in particular made an invaluable contribution in preparing the volume for submission to the publishers Finally we wish to thank the distinguished speakers at the ASI who agreed to write articles for this volume based on their lectures at the meeting We hope that the volume will stimulate further significant advances in the theory of algebraic groups

**Maximal  $\mathrm{PSL}_2$  Subgroups of Exceptional Groups of Lie Type** David A. Craven, 2022-04-08 View the abstract

**Irreducible Subgroups of Exceptional Algebraic Groups** Donna M. Testerman, 1988 Let  $Y$  be a simply connected simple algebraic group of exceptional type defined over an algebraically closed field  $k$  of prime characteristic  $p > 0$  The main result describes all semisimple closed connected subgroups of  $Y$  which act irreducibly on some rational  $k[Y]$  module  $V$  This extends work of Dynkin who obtained a similar classification for algebraically closed fields of characteristic 0 The main result has been combined with work of G Seitz to obtain a classification of the maximal closed connected subgroups of the classical algebraic groups defined over  $k$

**The Maximal Subgroups of Positive Dimension in Exceptional Algebraic Groups** Martin W. Liebeck, Gary M. Seitz, 2004 Intends to complete the determination of the maximal subgroups of positive dimension in simple algebraic groups of exceptional type over algebraically closed fields This title follows work of Dynkin who solved the problem in characteristic zero and Seitz who did likewise over fields whose characteristic is not too small

**Representations of Reductive Groups** Roger W. Carter, Meinolf Geck, 1998-09-03 This volume provides a very accessible introduction to the representation theory of reductive algebraic groups

Linear Algebraic Groups and Finite Groups of Lie Type Gunter Malle, Donna Testerman, 2011-09-08 Originating from a summer school taught by the authors this

concise treatment includes many of the main results in the area An introductory chapter describes the fundamental results on linear algebraic groups culminating in the classification of semisimple groups The second chapter introduces more specialized topics in the subgroup structure of semisimple groups and describes the classification of the maximal subgroups of the simple algebraic groups The authors then systematically develop the subgroup structure of finite groups of Lie type as a consequence of the structural results on algebraic groups This approach will help students to understand the relationship between these two classes of groups The book covers many topics that are central to the subject but missing from existing textbooks The authors provide numerous instructive exercises and examples for those who are learning the subject as well as more advanced topics for research students working in related areas

*Unipotent and Nilpotent Classes in Simple Algebraic Groups and Lie Algebras* Martin W. Liebeck, Gary M. Seitz, 2012-01-25 This book concerns the theory of unipotent elements in simple algebraic groups over algebraically closed or finite fields and nilpotent elements in the corresponding simple Lie algebras These topics have been an important area of study for decades with applications to representation theory character theory the subgroup structure of algebraic groups and finite groups and the classification of the finite simple groups The main focus is on obtaining full information on class representatives and centralizers of unipotent and nilpotent elements Although there is a substantial literature on this topic this book is the first single source where such information is presented completely in all characteristics In addition many of the results are new for example those concerning centralizers of nilpotent elements in small characteristics Indeed the whole approach while using some ideas from the literature is novel and yields many new general and specific facts concerning the structure and embeddings of centralizers

*Groups of Lie Type and Their Geometries* William M. Kantor, 1995-01-12 Silk Hope NC is a buoyant and moving parable in which two good women find among the hidden forgotten virtues of the past a sustenance to carry them into the future

**Centres of Centralizers of Unipotent Elements in Simple Algebraic Groups** Ross Lawther, Donna M. Testerman, 2011 Let  $G$  be a simple algebraic group defined over an algebraically closed field  $k$  whose characteristic is either 0 or a good prime for  $G$  and let  $u \in G$  be unipotent The authors study the centralizer  $C_G(u)$  especially its centre  $Z(C_G(u))$  They calculate the Lie algebra of  $Z(C_G(u))$  in particular determining its dimension they prove a succession of theorems of increasing generality the last of which provides a formula for  $\dim Z(C_G(u))$  in terms of the labelled diagram associated to the conjugacy class containing  $u$

*Symmetric Automorphisms of Free Products* Darryl McCullough, Andy Miller, 1996 The authors construct a complex italic capital  $K$  italic capital  $G$  on which the automorphism group of italic capital  $G$  acts and use it to derive finiteness consequences for the group capital Greek Sigma italic Aut italic capital  $G$  They prove that each component of italic capital  $K$  italic capital  $G$  is contractible and describe the vertex stabilizers as elementary constructs involving the groups italic capital  $G$  subscript italic  $i$  and italic Aut italic capital  $G$  subscript italic  $i$

**Orders of a Quartic Field** Jin Nakagawa, 1996 In this book the author studies the Dirichlet series whose coefficients are the number of orders of a quartic field with given indices

Nakagawa gives an explicit expression of the Dirichlet series Using this expression its analytic properties are deduced He also presents an asymptotic formula for the number of orders in a quartic field with index less than a given positive number

Axiomatic Stable Homotopy Theory Mark Hovey, John Harold Palmieri, Neil P. Strickland, 1997 We define and investigate a class of categories with formal properties similar to those of the homotopy category of spectra This class includes suitable versions of the derived category of modules over a commutative ring or of comodules over a commutative Hopf algebra and is closed under Bousfield localization We study various notions of smallness questions about representability of co homology functors and various kinds of localization We prove theorems analogous to those of Hopkins and Smith about detection of nilpotence and classification of thick subcategories We define the class of Noetherian stable homotopy categories and investigate their special properties Finally we prove that a number of categories occurring in nature including those mentioned above satisfy our axioms

**Generalized Symplectic Geometries and the Index of Families of Elliptic Problems** Liviu I. Nicolaescu, 1997 In this book an index theorem is proved for arbitrary families of elliptic boundary value problems for Dirac operators and a surgery formula for the index of a family of Dirac operators on a closed manifold Also obtained is a very general result on the cobordism invariance of the index of a family All results are established by first symplectically rephrasing the problems and then using a generalized symplectic reduction technique This provides a unified approach to all possible parameter spaces and all possible symmetries of a Dirac operator eight symmetries in the real case and two in the complex case This text will also be of interest to those working in geometry and topology

Integrable Systems and Riemann Surfaces of Infinite Genus Martin Ulrich Schmidt, 1996 This memoir develops the spectral theory of the Lax operators of nonlinear Schrödinger like partial differential equations with periodic boundary conditions Their special curves i.e. the common spectrum with the periodic shifts are generically Riemann surfaces of infinite genus The points corresponding to infinite energy are added The resulting spaces are no longer Riemann surfaces in the usual sense but they are quite similar to compact Riemann surfaces

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