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**Michael Aschbacher**

**Overgroups of  
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in sporadic groups**

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# Overgroups Of Sylow Subgroups In Sporadic Groups

**Martin W. Liebeck**



## **Overgroups Of Sylow Subgroups In Sporadic Groups:**

**Overgroups of Sylow Subgroups in Sporadic Groups** Michael Aschbacher,1986 The maximal overgroups of noncyclic Sylow subgroups of the sporadic finite simple groups are determined Moreover a geometric structure is associated to this collection of overgroups which is useful in the study of sporadic groups Overgroups of Sylow Subgroups in Sporadic Groups Michael Aschbacher,2005-10-14 *Overgroup of Sylow Subgroups in Sporadic Groups* Michael Aschbacher,1986

**Overgroups of Root Groups in Classical Groups** Michael Aschbacher,2016-04-26 The author extends results of McLaughlin and Kantor on overgroups of long root subgroups and long root elements in finite classical groups In particular he determines the maximal subgroups of this form He also determines the maximal overgroups of short root subgroups in finite classical groups and the maximal overgroups in finite orthogonal groups of c root subgroups *Sporadic Groups* Michael Aschbacher,1994-03-25 Sporadic Groups is the first step in a programme to provide a uniform self contained treatment of the foundational material on the sporadic finite simple groups The classification of the finite simple groups is one of the premier achievements of modern mathematics The classification demonstrates that each finite simple group is either a finite analogue of a simple Lie group or one of 26 pathological sporadic groups Sporadic Groups provides for the first time a self contained treatment of the foundations of the theory of sporadic groups accessible to mathematicians with a basic background in finite groups such as in the author s text Finite Group Theory Introductory material useful for studying the sporadics such as a discussion of large extraspecial 2 subgroups and Tits coset geometries opens the book A construction of the Mathieu groups as the automorphism groups of Steiner systems follows The Golay and Todd modules and the 2 local geometry for M24 are discussed This is followed by the standard construction of Conway of the Leech lattice and the Conway group The Monster is constructed as the automorphism group of the Griess algebra using some of the best features of the approaches of Griess Conway and Tits plus a few new wrinkles Researchers in finite group theory will find this text invaluable The subjects treated will interest combinatorists number theorists and conformal field theorists Groups St Andrews 2005: Volume 2 C. M. Campbell,2007-01-04 Selected papers from Groups St Andrews 2005 cover a wide spectrum of modern group theory 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 *Automorphisms of Fusion Systems of Finite Simple Groups of Lie Type* Carles Broto,Jesper M. Møller,Bob Oliver,2020-02-13 For a finite group  $G$  of Lie type and a prime  $p$  the authors compare the automorphism groups of the fusion and linking systems of  $G$  at  $p$  with the automorphism group of  $G$  itself When  $p$  is the defining characteristic of  $G$  they are all isomorphic with a very short list of exceptions When  $p$  is different from the defining characteristic the situation is much more complex but can always be reduced to a case where the natural map from  $\text{Out } G$  to outer automorphisms of the fusion or linking system is split surjective This work is motivated in part by questions involving extending the local structure

of a group by a group of automorphisms and in part by wanting to describe self homotopy equivalences of  $BG$  in terms of  $\text{Out } G$  *Classifying Spaces of Sporadic Groups* David J. Benson, Stephen D. Smith, 2008 For each of the 26 sporadic finite simple groups the authors construct a 2 completed classifying space using a homotopy decomposition in terms of classifying spaces of suitable 2 local subgroups This construction leads to an additive decomposition of the mod 2 group cohomology

Groups, Combinatorics and Geometry Martin W. Liebeck, 1992-09-10 This volume contains a collection of papers on the subject of the classification of finite simple groups **Subgroup Complexes** Stephen D. Smith, 2011-11-10 This book is

intended as an overview of a research area that combines geometries for groups such as Tits buildings and generalizations topological aspects of simplicial complexes from  $p$  subgroups of a group in the spirit of Brown Quillen and Webb and combinatorics of partially ordered sets The material is intended to serve as an advanced graduate level text and partly as a general reference on the research area The treatment offers optional tracks for the reader interested in buildings geometries for sporadic simple groups and  $G$  equivariant equivalences and homology for subgroup complexes *Equivalences of*

*Classifying Spaces Completed at the Prime Two* Robert Oliver, 2006 We prove here the Martino Priddy conjecture at the prime 2 the 2 completions of the classifying spaces of two finite groups  $G$  and  $G$  are homotopy equivalent if and only if there is an isomorphism between their Sylow 2 subgroups which preserves fusion This is a consequence of a technical algebraic result which says that for a finite group  $G$  the second higher derived functor of the inverse limit vanishes for a certain functor  $\mathcal{Z}_G$  on the 2 subgroup orbit category of  $G$  The proof of this result uses the classification theorem for finite simple groups **Finite and Locally Finite Groups** B. Hartley, G.M. Seitz, A.V. Borovik, R.M. Bryant, 2012-12-06 This volume

contains the proceedings of the NATO Advanced Study Institute on Finite and Locally Finite Groups held in Istanbul Turkey 14-27 August 1994 at which there were about 90 participants from some 16 different countries The ASI received generous financial support from the Scientific Affairs Division of NATO INTRODUCTION A locally finite group is a group in which every finite set of elements is contained in a finite subgroup The study of locally finite groups began with Schur's result that a periodic linear group is in fact locally finite The simple locally finite groups are of particular interest In view of the classification of the finite simple groups and advances in representation theory it is natural to pursue classification theorems for simple locally finite groups This was one of the central themes of the Istanbul conference and significant progress is reported herein The theory of simple locally finite groups intersects many areas of group theory and representation theory so this served as a focus for several articles in the volume Every simple locally finite group has what is known as a Kegel cover This is a collection of pairs  $G_i$  where  $I$  is an index set each group  $G_i$  is finite

*Orthogonal Decompositions and Integral Lattices* Alexei Kostrikin, Pham Huu Tiep, 2011-06-01 The aim of the series is to present new and important developments in pure and applied mathematics Well established in the community over two decades it offers a large library of mathematics including several important classics The volumes supply thorough and detailed expositions of the methods

and ideas essential to the topics in question In addition they convey their relationships to other parts of mathematics The series is addressed to advanced readers wishing to thoroughly study the topic Editorial Board Lev Birbrair Universidade Federal do Cear Fortaleza Brasil Victor P Maslov Russian Academy of Sciences Moscow Russia Walter D Neumann Columbia University New York USA Markus J Pflaum University of Colorado Boulder USA Dierk Schleicher Jacobs University Bremen Germany

*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

**Algebraic Combinatorics and the Monster Group** Alexander A. Ivanov, 2023-08-17 Covering arguably one of the most attractive and mysterious mathematical objects the Monster group this text strives to provide an insightful introduction and the discusses the current state of the field The Monster group is related to many areas of mathematics as well as physics from number theory to string theory This book cuts through the complex nature of the field highlighting some of the mysteries and intricate relationships involved Containing many meaningful examples and a manual introduction to the computer package GAP it provides the opportunity and resources for readers to start their own calculations Some 20 experts here share their expertise spanning this exciting field and the resulting volume is ideal for researchers and graduate students working in Combinatorial Algebra Group theory and related areas

*The Classification of Quasithin Groups* Michael Aschbacher, Stephen D. Smith, 2004 The first of two volumes this text offers results that are used in the proof of the main theorem that lies behind quasithin groups a class of finite simple groups Some results are gathered from existing mathematical literature but many are proven for the first time

**The Generalized Fitting Subsystem of a Fusion System** Michael Aschbacher, 2011-01-20 Here the author seeks to build a local theory of fusion systems analogous to the local theory of finite groups involving normal subsystems and factor systems

**Geometries and Groups** M. Aschbacher, A.M. Cohen, W.M. Kantor, 2012-12-06 The workshop was set up in order to stimulate the interaction between finite and algebraic geometries and groups Five areas of concentrated research were chosen on which attention would be

focused namely diagram geometries and chamber systems with transitive automorphism groups geometries viewed as incidence systems properties of finite groups of Lie type geometries related to finite simple groups and algebraic groups The list of talks cf page iii illustrates how these subjects were represented during the workshop The contributions to these proceedings mainly belong to the first three areas therefore i diagram geometries and chamber systems with transitive automorphism groups ii geometries viewed as incidence systems and iii properties of finite groups of Lie type occur as section titles The fourth and final section of these proceedings has been named graphs and groups besides some graph theory this encapsules most of the work related to finite simple groups that does not explicitly deal with diagram geometry A few more words about the content i Diagram geometries and chamber systems with transitive automorphism groups As a consequence of Tits seminal work on the subject all finite buildings are known But usually in a situation where groups are to be characterized by certain data concerning subgroups a lot less is known than the full parabolic picture corresponding to the building     **Proceedings of the Rutgers Group Theory Year, 1983-1984** Michael Aschbacher, 1984-12-28 With the classification of finite groups an era of research in the subject ended Some of the key figures in the classification program organized a research year at Rutgers University to analyze future directions of research in group theory This volume is a record of the research year verso

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