PROJECTIVE REPRESENTATIONS OF FINITE GROUPS

Gregory Karpilovsky

Projective Representations Of Finite Groups

How Ngee Ng

Projective Representations Of Finite Groups:
    Projective Representations of Finite Groups Gregory Karpilovsky,   Projective Representations of Finite Groups
Gregory Karpilovsky,1985 This book presents a systematic account of this topic from the classical foundations established by
Schur 80 years ago to current advances and developments in the field This work focuses on general methods and builds
theory solidly on the study of modules over twisted group algebras and provides a wide range of skill sharpening
mathematical techniques applicable to this subject Offers an understanding of projective representations of finite groups for
algebraists number theorists mathematical researchers studying modern algebra and theoretical physicists   **Projective
Representations of Finite Groups** How Ngee Ng,1974   **Irreducible Projective Representations of Finite Groups**
,2000   **Some Contributions to the Theory of Projective Representations of Finite Groups** David Edward
Seedhouse,1988   **Module Characters and Projective Representations of Finite Groups** E. Nauwelaerts,F. Van
Oystaeyen,1988   Degree Patterns of Projective Representations of Finite Groups Donal Healy (Ph.D.),University College,
Dublin. School of Mathematical Sciences,2006   **Extensions and Projective Representations of Finite Groups** S. Tom
Dixon,1967   **The Degrees of Irreducible Projective Representations of Finite Groups** R. J. Higgs,1985   **Some
Topics in the Theory of Projective Representations of Finite Groups** Frank Hampton Curphey OATES,1978   **Lifting
Problems for Projective Representations of Finite Groups Over Number Fields** Hans Opolka,2020 The purpose of this
note is to investigate lifting problems for cocycle classes of projective representations of finite groups over a field k of
characteristic 0 and to provide more detailed information in this respect if k is a number field Some examples are discussed
    Representations of Finite Groups Hirosi Nagao,Yukio Tsushima,2014-05-10 Representations of Finite Groups provides
an account of the fundamentals of ordinary and modular representations This book discusses the fundamental theory of
complex representations of finite groups Organized into five chapters this book begins with an overview of the basic facts
about rings and modules This text then provides the theory of algebras including theories of simple algebras Frobenius
algebras crossed products and Schur indices with representation theoretic versions of them Other chapters include a survey
of the fundamental theory of modular representations with emphasis on Brauer characters This book discusses as well the
module theoretic representation theory due to Green and includes some topics such as Burry Carlson s theorem and Scott
modules The final chapter deals with the fundamental results of Brauer on blocks and Fong s theory of covering and includes
some approaches to them This book is a valuable resource for readers who are interested in the various approaches to the
study of the representations of groups   The Brauer Splitting Theorem and Projective Representations of Finite Groups
Over Rings E. Nauwelaerts,F. Van Oystaeyen,1986   *The Degree of Irreducible Projective Representations of Finite Groups*
Russell John HIGGS,1985   *Real Projective Representations of Some Finite Groups* Christopher Magson,1988   *Linear
Representations of Finite Groups* Jean-Pierre Serre,2012-12-06 This book consists of three parts rather different in level and

purpose The first part was originally written for quantum chemists It describes the correspondence due to Frobenius between linear representations and charac ters This is a fundamental result of constant use in mathematics as well as in quantum chemistry or physics I have tried to give proofs as elementary as possible using only the definition of a group and the rudiments of linear algebra The examples Chapter 5 have been chosen from those useful to chemists The second part is a course given in 1966 to second year students of I Ecoie Normale It completes the first on the following points a degrees of representations and integrality properties of characters Chapter 6 b induced representations theorems of Artin and Brauer and applications Chapters 7 11 c rationality questions Chapters 12 and 13 The methods used are those of linear algebra in a wider sense than in the first part group algebras modules noncommutative tensor products semisimple algebras The third part is an introduction to Brauer theory passage from characteristic 0 to characteristic p and conversely I have freely used the language of abelian categories projective modules Grothendieck groups which is well suited to this sort of question The principal results are a The fact that the decomposition homomorphism is surjective all irreducible representations in characteristic p can be lifted virtually i e in a suitable Grothendieck group to characteristic O **An Approach to Divisibility Theorems for Irreducible Projective Representations of Finite Groups** Neil Magnuson Bogue,1979

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 Character Theory of Finite Groups I. Martin Isaacs,2006-11-21 Character theory is a powerful tool for understanding finite groups In particular the theory has been a key ingredient in the classification of finite simple groups Characters are also of interest in their own right and their properties are closely related to properties of the structure of the underlying group The book begins by developing the module theory of complex group algebras After the module theoretic foundations are laid in the first chapter the focus is primarily on characters This enhances the accessibility of the material for students which was a major consideration in the writing Also with students in mind a large number of problems are included many of them quite challenging In addition to the development of the basic theory using a cleaner notation than previously a number of more specialized topics are covered with accessible presentations These include projective representations the basics of the Schur index irreducible character degrees and group structure complex linear groups exceptional characters and a fairly extensive introduction to blocks and Brauer characters This is a corrected reprint of the original 1976 version later reprinted by Dover Since 1976 it has become the standard reference for character theory appearing in the bibliography of almost every research paper in the subject It is largely self contained requiring of the reader only the most basic facts of linear algebra group theory Galois theory and ring and module theory **Applications of Finite Groups** J. S. Lomont,2014-05-12 Applications of Finite Groups focuses on the applications of finite groups to problems of physics including representation theory crystals wave equations and nuclear and molecular structures The book first elaborates on matrices groups and representations Topics include abstract properties

applications matrix groups key theorem of representation theory properties of character tables simply reducible groups tensors and invariants and representations generated by functions The text then examines applications and subgroups and representations as well as subduced and induced representations fermion annihilation and creation operators crystallographic point groups proportionality tensors in crystals and nonrelativistic wave equations The publication takes a look at space group representations and energy bands symmetric groups and applications Topics include molecular and nuclear structures multiplet splitting in crystalline electric fields construction of irreducible representations of the symmetric groups and reality of representations The manuscript is a dependable source of data for physicists and researchers interested in the applications of finite groups

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