

Almost Completely Decomposable Groups

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Almost Completely Decomposable Groups

K.M. Rangaswamy, David Arnold



Almost Completely Decomposable Groups:

Almost Completely Decomposable Groups A Mader, 2000-03-09 An almost completely decomposable abelian α -group is an extension of a finite direct sum of subgroups of the additive group of rational numbers by a finite abelian group. Examples are easy to write and are frequently used but have been notoriously difficult to study and classify because of their computational nature. However a general theory of α -groups has been developed and a suitable weakening of isomorphism, Lady's near isomorphism, has been established as the right concept for studying α -groups. A number of important classes of α -groups has been successfully classified. Direct sum decompositions of α -groups are preserved under near isomorphism and the well known pathological decompositions can actually be surveyed in special cases. [Abelian Groups and Representations of Finite Partially Ordered Sets](#) David Arnold, 2012-11-14 A recurring theme in a traditional introductory graduate algebra course is the existence and consequences of relationships between different algebraic structures. This is also the theme of this book: an exposition of connections between representations of finite partially ordered sets and abelian groups. Emphasis is placed throughout on classification: a description of the objects up to isomorphism and computation of representation type as a measure of when classification is feasible. David M. Arnold is the Ralph and Jean Storm Professor of Mathematics at Baylor University. He is the author of *Finite Rank Torsion Free Abelian Groups and Rings* published in the Springer-Verlag Lecture Notes in Mathematics series, a co-editor for two volumes of conference proceedings and the author of numerous articles in mathematical research journals. His research interests are in abelian group theory and related topics such as representations of partially ordered sets and modules over discrete valuation rings, subrings of algebraic number fields and pullback rings. He received his Ph.D. from the University of Illinois Urbana and was a member of the faculty at New Mexico State University for many years. **Abelian Groups** Laszlo Fuchs, 2022-01-26 This volume contains information offered at the international conference held in Curacao, Netherlands Antilles. It presents the latest developments in the most active areas of abelian groups, particularly in torsion-free abelian groups. For both researchers and graduate students, it reflects the current status of abelian group theory. *Abelian Groups* discusses finite rank Butler groups, almost completely decomposable groups, Butler groups of infinite rank, equivalence theorems for torsion-free groups, cotorsion groups, endomorphism algebras and interactions of set theory and abelian groups. This volume contains contributions from international experts. It is aimed at algebraists and logicians, research mathematicians and advanced graduate students in these disciplines. [Abelian Groups and Modules](#) Alberto Facchini, Claudia Menini, 2012-12-06 On the 26th of November 1992 the organizing committee gathered together at Luigi Salce's invitation for the first time. The tradition of abelian groups and modules Italian conferences (Rome 77, Udine 85, Bressanone 90) needed to be kept up by one more meeting. Since that first time it was clear to us that our goal was not so easy. In fact the main intended topics of abelian groups, modules over commutative rings and non-commutative rings have become so specialized in the last years that it looked really ambitious to

fit them into only one meeting Anyway since everyone of us shared the same mathematical roots we did want to emphasize a common link So we elaborated the long symposium schedule three days of abelian groups and three days of modules over non commutative rings with a two days bridge of commutative algebra in between Many of the most famous names in these fields took part to the meeting Over 140 participants both attending and contributing the 18 Main Lectures and 64 Communications see list on page xv provided a really wide audience for an Algebra meeting Now that the meeting is over we can say that our initial feeling was right

Endomorphism Rings of Abelian Groups P.A. Krylov,Alexander V.

Mikhalev,A.A. Tuganbaev,2013-06-29 Every Abelian group can be related to an associative ring with an identity element the ring of all its endomorphisms Recently the theory of endomorphism rings of Abelian groups has become a rapidly developing area of algebra On the one hand it can be considered as a part of the theory of Abelian groups on the other hand the theory can be considered as a branch of the theory of endomorphism rings of modules and the representation theory of rings There are several reasons for studying endomorphism rings of Abelian groups first it makes it possible to acquire additional information about Abelian groups themselves to introduce new concepts and methods and to find new interesting classes of groups second it stimulates further development of the theory of modules and their endomorphism rings The theory of endomorphism rings can also be useful for studies of the structure of additive groups of rings E modules and homological properties of Abelian groups The books of Baer 52 and Kaplansky 245 have played an important role in the early development of the theory of endomorphism rings of Abelian groups and modules Endomorphism rings of Abelian groups are much studied in monographs of Fuchs 170 172 and 173 Endomorphism rings are also studied in the works of Kurosh 287 Arnold 31 and Benabdallah 63

Abelian Groups and Modules Paul C. Eklof,Rüdiger Göbel,2013-04-17 A 30 article

volume introducing an active and attractive part of algebra that has gained much from its position at the crossroads of mathematics over the years The papers stimulate the reader to consider and actively investigate the topics and problems they contain *Abelian Groups and Modules* R. Göbel,C. Metelli,A. Orsatti,L. Salce,2014-05-04 Models, Modules and Abelian Groups Rüdiger Göbel,Brendan Goldsmith,2008-12-10 This is a memorial volume dedicated to A L S Corner previously Professor in Oxford who published important results on algebra especially on the connections of modules with endomorphism algebras The volume contains refereed contributions which are related to the work of Corner It contains also an unpublished extended paper of Corner himself A memorial volume with important contributions related to algebra

Abelian Groups and Modules K.M. Rangaswamy,David Arnold,1996-08-16 Contains the proceedings of an international conference on abelian groups and modules held recently in Colorado Springs Presents the latest developments in abelian groups that have facilitated cross fertilization of new techniques from diverse areas such as the representation theory of posets model theory set theory and module theory

Abelian Groups, Rings and Modules Andrei V. Kelarev,2001 This

volume presents the proceedings from the conference on Abelian Groups Rings and Modules AGRAM held at the University

of Western Australia Perth Included are articles based on talks given at the conference as well as a few specially invited papers The proceedings were dedicated to Professor L szl Fuchs The book includes a tribute and a review of his work by his long time collaborator Professor Luigi Salce Four surveys from leading experts follow Professor Salce s article They present recent results from active research areas **Handbook of Algebra** M. Hazewinkel,2000-04-06 Handbook of Algebra

Scientific and Technical Aerospace Reports ,1977 Canadian Journal of Mathematics ,1996-10 Abelian Group Theory and Related Topics Rüdiger Göbel,Paul Hill,Wolfgang Liebert,1994 This volume contains the proceedings of a conference on abelian groups held in August 1993 at Oberwolfach The conference brought together forty seven participants from all over the world and from a range of mathematical areas Experts from model theory set theory noncommutative groups module theory and computer science discussed problems in their fields that relate to abelian group theory This book provides a window on the frontier of this active area of research **Advances in Algebra and Model Theory** M Droste,R. Göbel,2019-08-16 Contains 25 surveys in algebra and model theory all written by leading experts in the field The surveys are based around talks given at conferences held in Essen 1994 and Dresden 1995 Each contribution is written in such a way as to highlight the ideas that were discussed at the conferences and also to stimulate open research problems in a form accessible to the whole mathematical community The topics include field and ring theory as well as groups ordered algebraic structure and their relationship to model theory Several papers deal with infinite permutation groups abelian groups modules and their relatives and representations Model theoretic aspects include quantifier elimination in skew fields Hilbert s 17th problem aleph 0 categorical structures and Boolean algebras Moreover symmetry questions and automorphism groups of orders are covered This work contains 25 surveys in algebra and model theory each is written in such a way as to highlight the ideas that were discussed at Conferences and also to stimulate open research problems in a form accessible to the whole mathematical community Abelian Group Theory D. Arnold,R. Hunter,E. Walker,2006-11-15 Groups, Modules, and Model Theory - Surveys and Recent Developments Manfred Droste,László Fuchs,Brendan Goldsmith,Lutz Strüngmann,2017-06-02 This volume focuses on group theory and model theory with a particular emphasis on the interplay of the two areas The survey papers provide an overview of the developments across group module and model theory while the research papers present the most recent study in those same areas With introductory sections that make the topics easily accessible to students the papers in this volume will appeal to beginning graduate students and experienced researchers alike As a whole this book offers a cross section view of the areas in group module and model theory covering topics such as DP minimal groups Abelian groups countable 1 transitive trees and module approximations The papers in this book are the proceedings of the conference New Pathways between Group Theory and Model Theory which took place February 1 4 2016 in M lheim an der Ruhr Germany in honor of the editors colleague R diger G bel This publication is dedicated to Professor G bel who passed away in 2014 He was one of the leading experts in Abelian group theory Abelian Groups, Rings, Modules,

and Homological Algebra Pat Goeters, Overtoun M.G. Jenda, 2016-04-19 About the book In honor of Edgar Enochs and his venerable contributions to a broad range of topics in Algebra top researchers from around the world gathered at Auburn University to report on their latest work and exchange ideas on some of today's foremost research topics This carefully edited volume presents the refereed papers of the par

Methods in Module Theory Abrams, 1992-10-16 A collection of articles embodying the work presented at the 1991 Methods in Module Theory Conference at the University of Colorado at Colorado Springs facilitating the explanation and cross fertilization of new techniques that were developed to answer a variety of module theoretic questions

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