

TOPICS IN ALGEBRA

Part 1

RINGS AND REPRESENTATIONS OF ALGEBRAS

Editors of the Volume

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PREFACE

The 31st Semester “Classical Algebraic Structures” was held at the Stefan Banach International Mathematical Center in Warsaw from February 15 to June 15, 1988 and consisted of four sessions: The Theory of Rings (February 15 – March 29), Representations of Finite-Dimensional Algebras and Related Topics (April 18 – May 13), Commutative Algebra and Algebraic Geometry (April 5 – 16), Algebraic Groups, Their Combinatorics and Representations (May 15 – June 15). The sessions were directed by Jan Krempa, Daniel Simson, Wolfgang Vogel and Tadeusz Józefiak respectively, and Stanisław Balcerzyk served as chairman of the Organizing Committee.

An International Conference on Representations of Algebras was held at the Banach Center from May 2 to May 7, 1988. It was partially supported by the Institute of Mathematics of the Nicholas Copernicus University in Toruń.

There were 244 participants of the Semester and 290 lectures were given by 139 lecturers. This volume contains some of the papers contributed to the first and second sessions of the Semester. The papers were accepted in final form by the editors before September 30, 1988 and are devoted mainly to group and semigroup algebras, forms of Hopf algebras, indecomposable representations of finite-dimensional algebras, Cohen–Macaulay modules, matrix problems, lattices over orders.

Papers contributed to the third and fourth sessions are published in part 2 of this volume, entitled “Topics in Algebra. Commutative Rings and Algebraic Groups”.

September, 1988

Editors

CONTENTS

Preface	5
List of participants	9–10

THE THEORY OF RINGS

A. A. BOVDI and A. STROJNOWSKI, On the multiplicative subgroup of a group ring	13–16
V. DRENSKY, Computational techniques for PI-algebras	17–44
M. LORENZ, The rank of G_0 for polycyclic group algebras	45–53
S. MONTGOMERY, A generalized Picard group for prime rings	55–63
W. D. MUNN, Inverse semigroup rings	65–73
B. PAREIGIS, Forms of Hopf algebras and Galois theory	75–93
K. W. ROGGENKAMP, Isomorphisms and automorphisms of integral group rings	95–107
P. F. SMITH and D. VAN HUYNH, Characterizing rings by their modules	109–124

REPRESENTATIONS OF FINITE-DIMENSIONAL ALGEBRAS AND RELATED TOPICS

I. ASSEM, Tilting theory—an introduction	127–180
M. AUSLANDER and I. REITEN, Graded modules and their completions	181–192
R. BAUTISTA and M. KLEINER, On the existence of almost split sequences in subcategories	193–197
W. W. CRAWLEY-BOEVEY, Matrix problems and Drozd’s theorem	199–222
G. D’ESTE, Some remarks on representable equivalences	223–232
E. DIETERICH, Tame orders	233–261
V. DLAB and C. M. RINGEL, The dimension of a quasi-hereditary algebra	263–271
P. DOWBOR, On Bernstein–Gelfand–Gelfand equivalence and tilting theory	273–285
K. ERDMANN, On a class of tame symmetric algebras having only periodic modules	287–302
D. HAPPEL, Hochschild cohomology of Auslander algebras	303–310
D. HAPPEL and L. UNGER, Rigid transjective modules	311–316
O. KERNER, Universal exact sequences for torsion theories	317–326
B. KLEMP and D. SIMSON, On pure semisimplicity and representation-finite piecewise prime rings	327–339
N. MARMARIDIS, Strongly indefinite quadratic forms and wild algebras	341–351
J. A. DE LA PEÑA, Algebras with hypercritical Tits form	353–369
Z. POGORZALY, Regularly biserial algebras	371–384
V. A. PONOMAREV, Equipped graphs and modular lattices attached to them	385–405
C. M. RINGEL, The canonical algebras	407–432
–, Hall algebras	433–447

K. W. ROGGENKAMP, Indecomposable representations of orders	449–491
T. SCHEUER, More hammocks	493–498
D. SIMSON, Representations of bounded stratified posets, coverings and socle projective modules	499–533
A. SKOWROŃSKI, Algebras of polynomial growth	535–568
A. G. ZAVADSKIJ, The Auslander–Reiten quiver for posets of finite growth	569–587

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(sessions: "The theory of rings" and
"Representations of finite-dimensional algebras
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