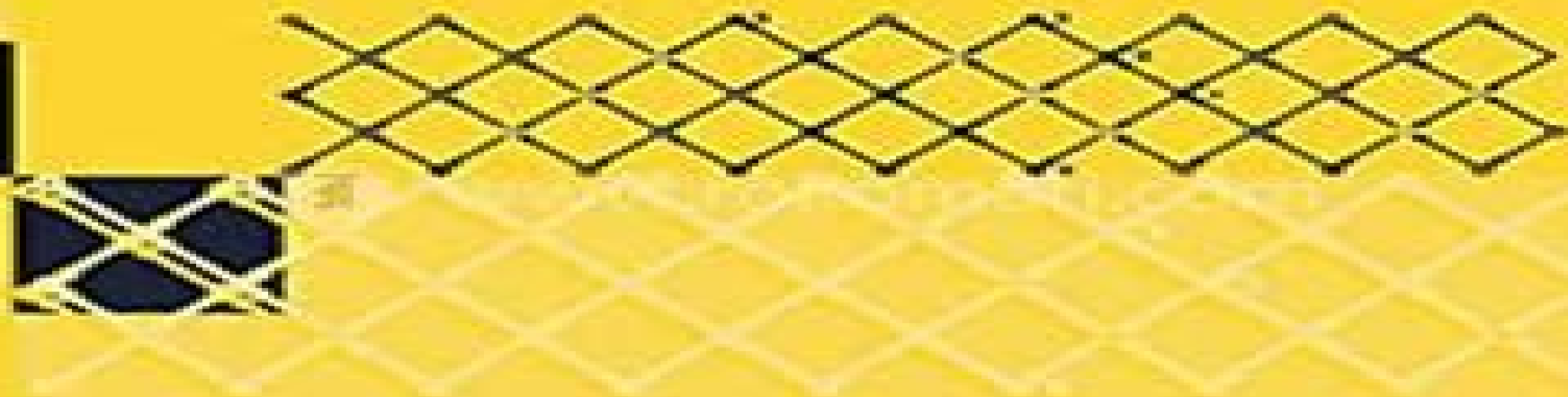


# Representations of Finite-Dimensional Algebras

Peter Gabriel  
Andrei V. Roiter



Springer

# Representations Of Finitedimensional Algebras

**Hiroyuki Tachikawa, Vlastimil  
Dlab, Canadian Mathematical Society**



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This volume contains the proceedings of the Tsukuba International Conference on Representations of Algebras and Related Topics fifth ICRA held at the University of Tsukuba August 13 18 1990 The conference focused on the rapid development of research on representations of finite dimensional algebras and group representations A subset of the fifty seven lectures are collected here together with a number of other papers not originally presented at the conference With contributions by some of the world s leading experts in this area this book provides a valuable overview of the frontier of research in representations of algebras

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**Representations of Finite Dimensional Algebras and Related Topics in Lie Theory and Geometry** Vlastimil Dlab, Claus Michael Ringel, These proceedings are from the Tenth International Conference on Representations of Algebras and Related Topics ICRA X held at The Fields Institute In addition to the traditional instructional workshop preceding the conference there were also workshops on Commutative Algebra Algebraic Geometry and Representation Theory Finite Dimensional Algebras Algebraic Groups and Lie Theory and Quantum Groups and Hall Algebras These workshops reflect the latest developments and the increasing interest in areas that are closely related to the representation theory of finite dimensional associative algebras Although these workshops were organized separately their topics are strongly interrelated The workshop on Commutative Algebra Algebraic Geometry and Representation Theory surveyed various recently established connections such as those pertaining to the classification of vector bundles or Cohen Macaulay modules over Noetherian rings coherent sheaves on curves or ideals in Weyl algebras In addition methods from algebraic geometry or commutative algebra relating to quiver representations and varieties of modules were presented The workshop on Finite Dimensional Algebras Algebraic Groups and Lie Theory surveyed developments in finite dimensional algebras and infinite dimensional Lie theory especially as the two areas interact and may have future interactions The workshop on Quantum Groups and Hall Algebras dealt with the different approaches of using the representation theory of quivers and species in order to construct quantum groups working either over finite fields or over the complex numbers In

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Algebra VIII, 1982 Algebra, 1992 **Representations of Finite-dimensional Algebras** Peter Gabriel, Andrei Vladimirovich Roiter, 1991 **Finite Dimensional Algebras and Quantum Groups** Bangming Deng, 2008 The interplay between finite dimensional algebras and Lie theory dates back many years In more recent times these interrelations have become even more strikingly apparent This text combines for the first time in book form the theories of finite dimensional algebras and quantum groups More precisely it investigates the Ringel Hall algebra realization for the positive part of a quantum enveloping algebra associated with a symmetrizable Cartan matrix and it looks closely at the Beilinson Lusztig MacPherson realization for the entire quantum  $gl_n$  The book begins with the two realizations of generalized Cartan matrices namely the graph realization and the root datum realization From there it develops the representation theory of quivers with automorphisms and the theory of quantum enveloping algebras associated with Kac Moody Lie algebras These two independent theories eventually meet in Part 4 under the umbrella of Ringel Hall algebras Cartan matrices can also be used to define an important class of groups Coxeter groups and their associated Hecke algebras Hecke algebras associated with symmetric groups give rise to an interesting class of quasi hereditary algebras the quantum Schur algebras The structure of these finite dimensional algebras is used in Part 5 to build the entire quantum  $gl_n$  through a completion process of a limit algebra the Beilinson Lusztig MacPherson algebra The book is suitable for advanced graduate students Each chapter concludes with a series of exercises ranging from the routine to sketches of proofs of recent results from the current literature Publisher's website Triangulated Categories in the Representation Theory of Finite Dimensional Algebras Dieter Happel, 1988 An introduction to the use of triangulated categories in the study of representations of finite dimensional algebras **Representations of Finite-Dimensional Algebras** Peter Gabriel, Andrei V. Roiter, 1997-09-12 From the reviews Gabriel and Roiter are pioneers in this subject and they have included proofs for statements which in their opinions are elementary those which will help further understanding and those which are scarcely available elsewhere They attempt to take us up to the point where we can find our way in the original literature The Mathematical Gazette **Representations of Finite Dimensional Algebras and Related Topics in Lie Theory and Geometry** Vlastimil Dlab, Claus Michael Ringel, 2004 These proceedings are from the Tenth International Conference on Representations of Algebras and Related Topics ICRA X held at The Fields Institute In addition to the traditional instructional workshop preceding the conference there were also workshops on Commutative Algebra Algebraic Geometry and Representation Theory Finite Dimensional Algebras Algebraic Groups and Lie Theory and Quantum Groups and Hall Algebras These workshops reflect the latest developments and the increasing interest in areas that are closely related to the representation theory of finite dimensional associative algebras Although these workshops were organized separately their

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the complex and real fields and paved the first steps towards the study of non semi simple algebras *Homological Invariants in the Representation Theory of Finite Dimensional Algebras* Thomas Troy Howard, 2011 A lattice valued version of complexity is introduced for finitely generated representations of finite dimensional algebras which measures the dimension growth of their syzygies The spectrum of complexities over a finite dimensional algebra is shown to be invariant under derived equivalences in many instances Directed graphs called syzygy quivers are used to explicitly compute complexity for representations of monomial algebras and to confirm that the spectrum of complexities of a monomial algebra is a derived invariant Relative complexity spectra are used to show that this complexity spectrum is a derived invariant for any finite dimensional algebra which satisfies certain translation invariance properties Examples of such algebras include Gorenstein algebras local algebras and commutative algebras no example is known of an algebra which lacks this property

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