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Forty Years Of Algebraic Groups, Algebraic Geometry, And Representation Theory In China: In Memory Of The Centenary Year Of Xihua Cao's BirthGeometric Representation Theory and Gauge TheoryFinite Dimensional Algebras and Quantum GroupsHopf Algebras, Quantum Groups and Yang-Baxter EquationsTHE EDUCATIONAL TIMESRepresentation Theory and BeyondCategorical, Combinatorial and Geometric Representation Theory and Related TopicsAlgebra ColloquiumCatalogue of the Officers and Students for the Academical YearA Double Hall Algebra Approach to Affine Quantum Schur-Weyl TheoryAnnouncementOxford University GazetteSummer SessionThe Cumulative Book IndexThe Bookseller, Newsdealer and StationerThe Journal of EducationAnnual Report of the Secretary of the State Board of Agriculture ... and ... Annual Report of the Experiment StationAnnual Report of the Secretary of the State Board of Agriculture ... and ... Annual Report of the Experiment Station ...Report of the SecretaryAnnual Report of the Secretary of the State Board of Agriculture ... and ... Annual Report of the Experimental Station ... Jie Du Alexander Braverman Bangming Deng Florin Felix Nichita College of Preceptors Jan Šťovček Pramod N. Achar Ohio Wesleyan University Bangming Deng University of Michigan. Summer Session University of Oxford University of Michigan Michigan. State Board of Agriculture Michigan. Board of Agriculture Michigan. State Board of Agriculture Michigan. State Board of Agriculture

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professor xihua cao 1920 2005 was a leading scholar at east china normal university ecnu and a famous algebraist in china his contribution to the chinese academic circle is particularly the formation of a world renowned ecnu school in algebra covering research areas include algebraic groups quantum groups algebraic geometry lie algebra algebraic number theory representation theory and other hot fields in january 2020 in order to commemorate professor xihua cao s centenary birthday east china normal university held a three day academic conference scholars at home and abroad gave dedications or delivered lectures in the conference this volume originates from the memorial conference collecting the dedications of scholars reminiscences of family members and 16 academic articles written based on the lectures in the conference covering a wide range of research hot topics in algebra the book shows not only scholars respect and memory for professor xihua cao but also the research achievements of chinese scholars at home and abroad

this book offers a review of the vibrant areas of geometric representation theory and gauge theory which are characterized by a merging of traditional techniques in representation theory with the use of powerful tools from algebraic geometry and with strong inputs from physics the notes are based on lectures delivered at the cime school geometric representation theory and gauge theory held in cetraro italy in june 2018 they comprise three contributions due to alexander braverman and michael finkelberg andrei negut and alexei oblomkov respectively braverman and finkelberg s notes review the mathematical theory of the coulomb branch of 3d n 4 quantum gauge theories the purpose of negut s notes is to study moduli spaces of sheaves on a surface as well as hecke correspondences between them oblomkov s notes concern matrix factorizations and knot homology this book will appeal to both mathematicians and theoretical physicists and will be a source of inspiration for phd students and researchers

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 $\mathfrak{gl}(n)$ 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 $\mathfrak{gl}(n)$ 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

this book is a printed edition of the special issue hopf algebras quantum groups and yang baxter equations that was published in axioms

this volume contains the proceedings of the workshop and 18th international conference on representations of algebras icra 2018 held from august 8-17 2018 in prague czech republic it presents several themes of contemporary representation theory together with some new tools such as stable categories stable derivators and contramodules in the first part expanded lecture notes of four courses delivered at the workshop are presented covering the representation theory of finite sets with correspondences geometric theory of quiver grassmannians recent applications of contramodules to tilting theory as well as symmetries in the representation theory over an abstract stable homotopy theory the second part consists of six more advanced papers based on plenary talks of the conference presenting selected topics from contemporary representation theory recollements and purity maximal green sequences cohomological hall algebras hochschild cohomology of associative algebras cohomology of local selfinjective algebras and the higher auslander reiten theory studied via homotopy theory

this book is the third proceedings of the southeastern lie theory workshop series covering years 2015-21 during this time five workshops on different aspects of lie theory were held at north carolina state university in october 2015 university of virginia in may 2016 university of georgia in june 2018 louisiana state university in may 2019 and college of charleston in october 2021 some of the articles by experts in the field describe recent developments while others include new results in categorical combinatorial and geometric representation theory of algebraic groups lie super algebras and quantum groups as well as on some related topics the survey articles will be beneficial to junior researchers this book will be useful to any researcher working in lie theory and related areas

the first book of its kind to present an algebraic approach to affine q -schur algebras and affine quantum schur-weyl theory

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