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Symmetries, Integrable Systems and Representations

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This volume is the result of two international workshops Infinite Analysis 11 Frontier of Integrability held at University of Tokyo Japan in July 25th to 29th 2011 and Symmetries Integrable Systems and Representations held at Universit Claude Bernard Lyon 1 France in December 13th to 16th 2011 Included are research articles based on the talks presented at the workshops latest results obtained thereafter and some review articles The subjects discussed range across diverse areas such as algebraic geometry combinatorics differential equations integrable systems representation theory solvable lattice models and special functions Through these topics the reader will find some recent developments in the field of mathematical physics and their interactions with several other domains

Symmetries, Integrable Systems and Representations Kenji Iohara, Sophie Morier-Genoud, Bertrand Rémy, 2012-12-05 This volume is the result of two international workshops Infinite Analysis 11 Frontier of Integrability held at University of Tokyo Japan in July 25th to 29th 2011 and Symmetries Integrable Systems and Representations held at Universit Claude Bernard Lyon 1 France in December 13th to 16th 2011 Included are research articles based on the talks presented at the workshops latest results obtained thereafter and some review articles The subjects discussed range across diverse areas such as algebraic geometry combinatorics differential equations integrable systems representation theory solvable lattice models and special functions Through these topics the reader will find some recent developments in the field of mathematical physics and their interactions with several other domains

Representation Theory, Mathematical Physics, and Integrable Systems Anton Alekseev, Edward Frenkel, Marc Rosso, Ben Webster, Milen Yakimov, 2022-02-05 Over the course of his distinguished career Nicolai Reshetikhin has made a number of groundbreaking contributions in several fields including representation theory integrable systems and topology The chapters in this volume compiled on the occasion of his 60th birthday are written by distinguished mathematicians and physicists and pay tribute to his many significant and lasting achievements Covering the latest developments at the interface of noncommutative algebra differential and algebraic geometry and perspectives arising from physics this volume explores topics such as the development of new and powerful knot invariants new perspectives on enumerative geometry and string theory and the introduction of cluster algebra and categorification techniques into a broad range of areas Chapters will also cover novel applications of representation theory to random matrix theory exactly solvable models in statistical mechanics and integrable hierarchies The recent progress in the mathematical and physical aspects of deformation quantization and tensor categories is also addressed Representation Theory Mathematical Physics and Integrable Systems will be of interest to a wide audience of mathematicians interested in these areas and the connections between them ranging from graduate students to junior mid career and senior researchers

Algebraic and Analytic Aspects of Integrable Systems and Painleve Equations Anton Dzhamay, Kenichi Maruno, Christopher M. Ormerod, 2015-10-28 This volume contains the

proceedings of the AMS Special Session on Algebraic and Analytic Aspects of Integrable Systems and Painlevé Equations held on January 18 2014 at the Joint Mathematics Meetings in Baltimore MD The theory of integrable systems has been at the forefront of some of the most important developments in mathematical physics in the last 50 years The techniques to study such systems have solid foundations in algebraic geometry differential geometry and group representation theory Many important special solutions of continuous and discrete integrable systems can be written in terms of special functions such as hypergeometric and basic hypergeometric functions The analytic tools developed to study integrable systems have numerous applications in random matrix theory statistical mechanics and quantum gravity One of the most exciting recent developments has been the emergence of good and interesting discrete and quantum analogues of classical integrable differential equations such as the Painlevé equations and soliton equations Many algebraic and analytic ideas developed in the continuous case generalize in a beautifully natural manner to discrete integrable systems The editors have sought to bring together a collection of expository and research articles that represent a good cross section of ideas and methods in these active areas of research within integrable systems and their applications

Symmetry: Representation Theory and Its Applications

Roger Howe, Markus Hunziker, Jeb F. Willenbring, 2015-01-04 Nolan Wallach's mathematical research is remarkable in both its breadth and depth His contributions to many fields include representation theory harmonic analysis algebraic geometry combinatorics number theory differential equations Riemannian geometry ring theory and quantum information theory The touchstone and unifying thread running through all his work is the idea of symmetry This volume is a collection of invited articles that pay tribute to Wallach's ideas and show symmetry at work in a large variety of areas The articles predominantly expository are written by distinguished mathematicians and contain sufficient preliminary material to reach the widest possible audiences Graduate students mathematicians and physicists interested in representation theory and its applications will find many gems in this volume that have not appeared in print elsewhere Contributors D Barbasch K Baur O Bucicovschi B Casselman D Ciubotaru M Colarusso P Delorme T Enright W T Gan A Garsia G Gour B Gross J Haglund G Han P Harris J Hong R Howe M Hunziker B Kostant H Kraft D Meyer R Miatello L Ni G Schwarz L Small D Vogan N Wallach J Wolf G Xin O Yacobi

Calogero-Moser Systems and Representation Theory

Pavel I. Etingof, 2007 Calogero Moser systems which were originally discovered by specialists in integrable systems are currently at the crossroads of many areas of mathematics and within the scope of interests of many mathematicians More specifically these systems and their generalizations turned out to have intrinsic connections with such fields as algebraic geometry Hilbert schemes of surfaces representation theory double affine Hecke algebras Lie groups quantum groups deformation theory symplectic reflection algebras homological algebra Koszul algebras Poisson geometry etc The goal of the present lecture notes is to give an introduction to the theory of Calogero Moser systems highlighting their interplay with these fields Since these lectures are designed for non experts the author gives short introductions to each of the subjects involved and provides a number of

exercises *Journal of Nonlinear Mathematical Physics* Vol. 14 , **Discrete Systems and Integrability** J. Hietarinta, N. Joshi, F. W. Nijhoff, 2016-09 A first introduction to the theory of discrete integrable systems at a level suitable for students and non experts Partition Functions and Automorphic Forms Valery A. Gritsenko, Vyacheslav P. Spiridonov, 2020-07-09 This book offers an introduction to the research in several recently discovered and actively developing mathematical and mathematical physics areas It focuses on 1 Feynman integrals and modular functions 2 hyperbolic and Lorentzian Kac Moody algebras related automorphic forms and applications to quantum gravity 3 superconformal indices and elliptic hypergeometric integrals related instanton partition functions 4 moonshine its arithmetic aspects Jacobi forms elliptic genus and string theory and 5 theory and applications of the elliptic Painleve equation and aspects of Painleve equations in quantum field theories All the topics covered are related to various partition functions emerging in different supersymmetric and ordinary quantum field theories in curved space times of different $d = 2, 3, 6$ dimensions Presenting multidisciplinary methods localization Borcherds products theory of special functions Cremona maps etc for treating a range of partition functions the book is intended for graduate students and young postdocs interested in the interaction between quantum field theory and mathematics related to automorphic forms representation theory number theory and geometry and mirror symmetry *Basics of Representation Theory* Udayan Bhattacharya, 2025-02-20 Delve into the captivating world of Basics of Representation Theory a comprehensive guide designed for students researchers and enthusiasts eager to explore the intricate symmetries and structures that underpin modern mathematics Our book offers a detailed introduction to foundational concepts providing a solid understanding of group actions linear representations and character theory From there it explores the algebraic structures of irreducible representations breaking down the decomposition into irreducible components and examining the properties of characters Readers will journey through diverse topics including the representation theory of symmetric groups Lie groups and algebraic groups as well as advanced topics such as the representation theory of finite groups the Langlands program and applications in quantum mechanics and number theory With a wealth of examples illustrations and exercises Basics of Representation Theory ensures a hands on approach to learning encouraging practical exploration and problem solving The book also includes numerous references and further reading suggestions for those who wish to delve deeper into specific topics Written in a clear and accessible style this book caters to all levels from undergraduate students encountering representation theory for the first time to experienced researchers seeking fresh insights With its comprehensive coverage and diverse applications Basics of Representation Theory is an invaluable resource for anyone interested in the beauty and depth of this field

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