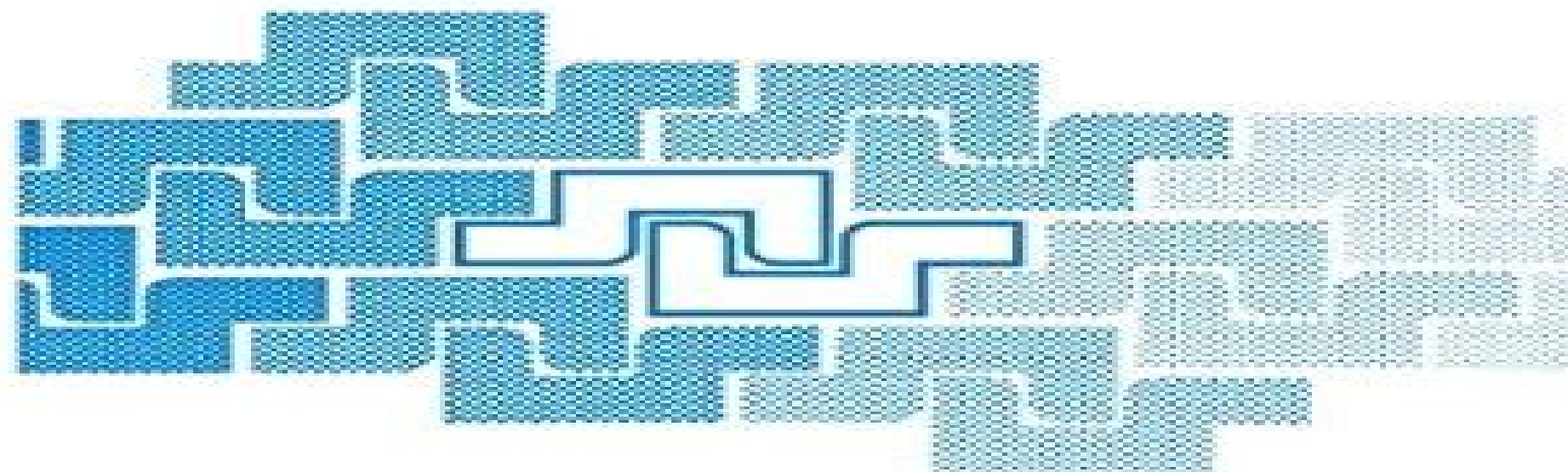




Applications of Random Matrices in Physics

Edited by

Édouard Brézin, Vladimir Kazakov,
Didina Serban, Paul Wiegmann
and Anton Zabrodin

NATO Science Series

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Proceedings Of The International Congress Of Mathematicians 2010 (Icm 2010) (In 4 Volumes) - Vol. I: Plenary Lectures And Ceremonies, Vols. II-IV: Invited Lectures Rajendra Bhatia, Arup Pal, G Rangarajan, V Srinivas, M Vanninathan, 2011-06-06 ICM 2010 proceedings comprises a four volume set containing articles based on plenary lectures and invited section lectures the Abel and Noether lectures as well as contributions based on lectures delivered by the recipients of the Fields Medal the Nevanlinna and Chern Prizes The first volume will also contain the speeches at the opening and closing ceremonies and other highlights of the Congress *Algebraic Structures and Applications* Sergei Silvestrov, Anatoliy Malyarenko, Milica

Rančić, 2020-06-18 This book explores the latest advances in algebraic structures and applications and focuses on mathematical concepts methods structures problems algorithms and computational methods important in the natural sciences engineering and modern technologies In particular it features mathematical methods and models of non commutative and non associative algebras hom algebra structures generalizations of differential calculus quantum deformations of algebras Lie algebras and their generalizations semi groups and groups constructive algebra matrix analysis and its interplay with topology knot theory dynamical systems functional analysis stochastic processes perturbation analysis of Markov chains and applications in network analysis financial mathematics and engineering mathematics The book addresses both theory and applications which are illustrated with a wealth of ideas proofs and examples to help readers understand the material and develop new mathematical methods and concepts of their own The high quality chapters share a wealth of new methods and results review cutting edge research and discuss open problems and directions for future research Taken together they offer a source of inspiration for a broad range of researchers and research students whose work involves algebraic structures and their applications probability theory and mathematical statistics applied mathematics engineering mathematics and related areas

Number Theory and Related Fields Jonathan M. Borwein, Igor Shparlinski, Wadim Zudilin, 2013-05-16 Number Theory and Related Fields collects contributions based on the proceedings of the International Number Theory Conference in Memory of Alf van der Poorten hosted by CARMA and held March 12 16th 2012 at the University of Newcastle Australia The purpose of the conference was to promote number theory research in Australia while commemorating the legacy of Alf van der Poorten who had written over 170 papers on the topic of number theory and collaborated with dozens of researchers The research articles and surveys presented in this book were written by some of the most distinguished mathematicians in the field of number theory and articles will include related topics that focus on the various research interests of Dr van der Poorten **Dynamics of Complex Quantum Systems** Vladimir M.

Akulin,2013-12-30 This book gathers together a range of similar problems that can be encountered in different fields of modern quantum physics and that have common features with regard to multilevel quantum systems The main motivation was to examine from a uniform standpoint various models and approaches that have been developed in atomic molecular condensed matter chemical laser and nuclear physics in various contexts The book should help senior level undergraduate graduate students and researchers putting particular problems in these fields into a broader scientific context and thereby taking advantage of well established techniques used in adjacent fields This second edition has been expanded to include substantial new material e g new sections on Dynamic Localization and on Euclidean Random Matrices and new chapters on Entanglement Open Quantum Systems and Coherence Protection It is based on the author s lectures at the Moscow Institute of Physics and Technology at the CNRS Aim Cotton Laboratory and on other courses he has given over the last two decades

Asymptotic Combinatorics with Applications to Mathematical Physics European Mathematical Summer School (2001 : St. Petersburg),2003 At the Summer School Saint Petersburg 2001 the main lecture courses bore on recent progress in asymptotic representation theory those written up for this volume deal with the theory of representations of infinite symmetric groups and groups of infinite matrices over finite fields Riemann Hilbert problem techniques applied to the study of spectra of random matrices and asymptotics of Young diagrams with Plancherel measure the corresponding central limit theorems the combinatorics of modular curves and random trees with application to QFT free probability and random matrices and Hecke algebras

Counting Surfaces Bertrand Eynard,2016-03-21 The problem of enumerating maps a map is a set of polygonal countries on a world of a certain topology not necessarily the plane or the sphere is an important problem in mathematics and physics and it has many applications ranging from statistical physics geometry particle physics telecommunications biology etc This problem has been studied by many communities of researchers mostly combinatorists probabilists and physicists Since 1978 physicists have invented a method called matrix models to address that problem and many results have been obtained Besides another important problem in mathematics and physics in particular string theory is to count Riemann surfaces Riemann surfaces of a given topology are parametrized by a finite number of real parameters called moduli and the moduli space is a finite dimensional compact manifold or orbifold of complicated topology The number of Riemann surfaces is the volume of that moduli space More generally an important problem in algebraic geometry is to characterize the moduli spaces by computing not only their volumes but also other characteristic numbers called intersection numbers Witten s conjecture which was first proved by Kontsevich was the assertion that Riemann surfaces can be obtained as limits of polygonal surfaces maps made of a very large number of very small polygons In other words the number of maps in a certain limit should give the intersection numbers of moduli spaces In this book we show how that limit takes place The goal of this book is to explain the matrix model method to show the main results obtained with it and to compare it with methods used in combinatorics bijective proofs Tutte s equations or algebraic geometry Mirzakhani s recursions The book

intends to be self contained and accessible to graduate students and provides comprehensive proofs several examples and give s the general formula for the enumeration of maps on surfaces of any topology In the end the link with more general topics such as algebraic geometry string theory is discussed and in particular a proof of the Witten Kontsevich conjecture is provided Quantum Many Body Systems Vincent Rivasseau,Robert Seiringer,Jan Philip Solovej,Thomas

Spencer,2012-06-25 The book is based on the lectures given at the CIME school Quantum many body systems held in the summer of 2010 It provides a tutorial introduction to recent advances in the mathematics of interacting systems written by four leading experts in the field V Rivasseau illustrates the applications of constructive Quantum Field Theory to 2D interacting electrons and their relation to quantum gravity R Seiringer describes a proof of Bose Einstein condensation in the Gross Pitaevski limit and explains the effects of rotating traps and the emergence of lattices of quantized vortices J P Solovej gives an introduction to the theory of quantum Coulomb systems and to the functional analytic methods used to prove their thermodynamic stability finally T Spencer explains the supersymmetric approach to Anderson localization and its relation to the theory of random matrices All the lectures are characterized by their mathematical rigor combined with physical insights

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