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Integrable probability mini-workshop (day 2 of 2) Ivan Corwin - Gibbsian line ensembles in integrable probability (1 of 3) ~~Pavel Etingof | Quantum Groups~~ Ivan Corwin: Integrable probability - Lecture 2 3. Probability Theory Geometric Probability Jonathan Heckman | Top Down Approach to Quantum Fields Collision rate ansatz for quantum integrable systems Yuri Manin - Big Bang, Blow Up, and Modular Curves: Algebraic Geometry of Cyclic Cosmology Probability Primer for Probabilistic Robotics (Cyrill Stachniss, 2020) Vasily Pestun - 1/4 Quantum gauge theories and integrable systems

From Poisson structures to integrability and Lie group actions~~Cédric Villani - 1/7 La théorie synthétique de la courbure de Ricci~~ Sean Carroll: Decoherence The Many Worlds of Quantum Mechanics Something Deeply Hidden | Sean Carroll | Talks at Google Noether's Theorem and The Symmetries of Reality ~~Terence Tao - 1/3 Bounded gaps between primes Download~~ Ivan Corwin - Why the ⏤Unreasonable Effectiveness⏤ of Mathematics? Mikhael Gromov, Spinor and Plateau billiards The evolution of geometric structures on 3-manifolds. ~~Yakov Eliashberg - Limits of Symplectic Topology~~ Introduction to classical and quantum integrable systems by Leon Takhtajan Alexei Borodin - Integrability and Universality in Probability (April 20, 2016) ~~Integrability: From Noether to the N-body problem and beyond. Observable events\" and \"typical trajectories\" in...dynamical systems - Lai-Sang Young~~

Riemann integral vs. Lebesgue integralPhilippe Biane: Free probability and random matrices Ergodic and non-ergodic quantum dynamics I Discrete Differential Geometry - Helping Machines (and People) Think Clearly about Shape Probability Geometry And Integrable Systems
The three main themes of this book, probability theory, differential geometry, and the theory of integrable systems, reflect the broad range of mathematical interests of Henry McKean, to whom it is dedicated.

Probability, Geometry and Integrable Systems (Mathematical ...
Probability, Geometry and Integrable Systems For Henry McKean's Seventy-Fifth Birthday. Edited by Mark Pinsky and Björn Birnir Contents Front matter (front page, copyright page) PDF file. Table of Contents PDF file. Preface, ix-xiv PDF file. A tribute to Henry McKean by the Editors, xv-xxiii PDF file

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Overview | Algebra, geometry and integrable systems ...
Probability, Geometry and Integrable Systems. by Mark Pinsky, Bjorn Birnir. Publisher: Cambridge

University Press 2007. ISBN/ASIN: 0521895278. ISBN-13: 9780521895279. Number of pages: 428. Description: The three main themes of this book, probability theory, differential geometry, and the theory of integrable systems, reflect the broad range of mathematical interests of Henry McKean, to whom it is dedicated.

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Written by experts in probability, geometry, integrable systems, turbulence, and percolation, the 17 papers included here demonstrate a variety of techniques that have been developed to solve various mathematical problems in these areas. The topics are often combined in an unusual fashion to give solutions outside of the standard methods.

Probability, Geometry and Integrable Systems : Mark Pinsky ...

Mark Pinsky Department of Mathematics Northwestern University Evanston, IL 60208 Bj¨orn Birnir Center for Complex and Nonlinear Science and Department of Mathematics

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Reflects the range of mathematical interests of Henry McKean, to whom it is dedicated.

A collection of articles discussing integrable systems and algebraic geometry from leading researchers in the field.

Created as a celebration of mathematical pioneer Emma Previato, this comprehensive book highlights the connections between algebraic geometry and integrable systems, differential equations, mathematical physics, and many other areas. The authors, many of whom have been at the forefront of research into these topics for the last decades, have all been influenced by Previato's research, as her collaborators, students, or colleagues. The diverse articles in the book demonstrate the wide scope of Previato's work and the inclusion of several survey and introductory articles makes the text accessible to graduate students and non-experts, as well as researchers. This first volume covers a wide range of areas related

to integrable systems, often emphasizing the deep connections with algebraic geometry. Common themes include theta functions and Abelian varieties, Lax equations, integrable hierarchies, Hamiltonian flows and difference operators. These powerful tools are applied to spinning top, Hitchin, Painleve and many other notable special equations.

This is a collection of outstanding review papers on integrable systems. It gives the algebraic geometric aspects of the subject, describes integrability techniques e.g. for the modified KdV equation, integrability of Hamiltonian systems, hierarchies of equations, probability distribution of eigenvalues, and modern aspects of quantum groups. It addresses researchers in mathematics and mathematical physics.

This volume presents a selection of papers by Henry P. McKean, which illustrate the various areas in mathematics in which he has made seminal contributions. Topics covered include probability theory, integrable systems, geometry and financial mathematics. Each paper represents a contribution by Prof. McKean, either alone or together with other researchers, that has had a profound influence in the respective area.

This volume contains the proceedings of a conference held at the Courant Institute in 2006 to celebrate the 60th birthday of Percy A. Deift. The program reflected the wide-ranging contributions of Professor Deift to analysis with emphasis on recent developments in Random Matrix Theory and integrable systems. The articles in this volume present a broad view on the state of the art in these fields. Topics on random matrices include the distributions and stochastic processes associated with local eigenvalue statistics, as well as their appearance in combinatorial models such as TASEP, last passage percolation and tilings. The contributions in integrable systems mostly deal with focusing NLS, the Camassa-Holm equation and the Toda lattice. A number of papers are devoted to techniques that are used in both fields. These techniques are related to orthogonal polynomials, operator determinants, special functions, Riemann-Hilbert problems, direct and inverse spectral theory. Of special interest is the article of Percy Deift in which he discusses some open problems of Random Matrix Theory and the theory of integrable systems.

This volume includes review articles and research contributions on long-standing questions on universalities of Wigner matrices and beta-ensembles.

This volume, based on a workshop by the MSRI, offers an overview of the state of the art in many areas of algebraic geometry.

A graduate-level introduction to the homotopical technology in use at the forefront of modern algebraic topology.

This volume contains the proceedings of the AMS Special Session on Algebraic and Geometric Aspects of Integrable Systems and Random Matrices, held from January 6-7, 2012, in Boston, MA. The very wide range of topics represented in this volume illustrates

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