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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 actionsCédric 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 integral**Philippe 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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Low dimensional geometric topology; Connections of logic to algebra and geometry; Geometric variational problems; Integrable systems theory; Discrete systems and difference equations; Discrete and spectral geometry; Research seminars. All upcoming seminars can be found in our events section. PhD projects

## 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.

## Probability, Geometry and Integrable Systems - Download link
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## Probability Geometry And Integrable Systems Mathematical ...
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.

The synthesis of symplectic geometry, the calculus of variations and control theory offered in this book provides a crucial foundation for the understanding of many problems in applied mathematics. Focusing on the theory of integrable systems, this book introduces a class of optimal control problems on Lie groups, whose Hamiltonians, obtained through the Maximum Principle of optimality, shed new light on the theory of integrable systems. These Hamiltonians provide an original and unified account of the existing theory of integrable systems. The book particularly explains much of the mystery surrounding the Kepler problem, the Jacobi problem and the Kovalevskaya Top. It also reveals the ubiquitous presence of elastic curves in integrable systems up to the soliton solutions of the non-linear Schroedinger's equation. Containing a useful blend of theory and applications, this is an indispensable guide for graduates and researchers in many fields, from mathematical physics to space control.

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.

Integrable Hamiltonian systems have been of growing interest over the past 30 years and represent one of the most intriguing and mysterious classes of dynamical systems. This book explores the topology of integrable systems and the general theory underlying their qualitative properties, singularites, and topological invariants. The authors,

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

Inverse problems lie at the heart of contemporary scientific inquiry and technological development. Applications include a variety of medical and other imaging techniques, which are used for early detection of cancer and pulmonary edema, location of oil and mineral deposits in the Earth's interior, creation of astrophysical images from telescope data, finding cracks and interfaces within materials, shape optimization, model identification in growth processes, and modeling in the life sciences among others. The expository survey essays in this book describe recent developments in inverse problems and imaging, including hybrid or couple-physics methods arising in medical imaging, Calderon's problem and electrical impedance tomography, inverse problems arising in global seismology and oil exploration, inverse spectral problems, and the study of asymptotically hyperbolic spaces. It is suitable for graduate students and researchers interested in inverse problems and their applications.

This book explores the study of singular spaces using techniques from areas within geometry and topology and the interactions among them.

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