



Graduate Summer School Tentative Lecture Schedule

Each lecturer gives four lectures.

Week 1: June 26–30

Ioana Dumitriu, University of Washington

Eigenvalues, graphs, and Catalan numbers: the semicircle law and beyond

Yan Fyodorov, King's College London

Counting equilibria in complex systems via random matrices

Sylvia Serfaty, New York University

Microscopic description of Log and Coulomb gases

Dimitri Shlyakhtenko, University of California, Los Angeles

Random matrices and free probability

Week 2: July 3–7

Percy Deift, New York University

Riemann-Hilbert problems

Laszlo Erdős, Institute of Science and Technology Austria

The matrix Dyson equation for random matrices

Terence Tao, University of California, Los Angeles

Universality for random matrix ensembles of Wigner type

Week 3: July 10–14

Jeremy Questel, University of Toronto

Introduction to KPZ

Mark Rudelson, University of Michigan

Delocalization of the eigenvectors of random matrices

Balint Virag, University of Toronto

Operator limits of random matrices