

Combinatorics and Complexity Theory

Wednesday, September 1, 1999 (All day) - Friday, June 30, 2000 (All day)
(1999-2000)

The seminar on Combinatorics and Theoretical Computer Science at the Institute for Advanced Study will take place every Monday at 11 a.m. in room 101, the seminar room in Simonyi Hall.

- Monday, 27 September 1999
Michael Saks, Rutgers University
An Improved Exponential-time Algorithm for k CNF Satisfiability
[Abstract:](#)
- Monday, 4 October 1999
Leonid Gurvits, NECI
Operator Scaling and Approximating the Mixed Discriminant
[Abstract:](#)
- Monday, 11 October 1999
Ran Raz, The Weizmann Institute of Science, Israel
**Exponential Separation of Quantum and Classical Communication Complexity,
and some Geometrical Properties of the Sphere S^n**
[Abstract:](#)
- Monday, 18 October 1999
There is no talk scheduled for this date
- Monday, 25 October 1999
Eldar Fischer, Tel Aviv University

Graph embeddings via the Regularity Lemma

[Abstract:](#)

- Monday, 1 November 1999
Because of a DIMACS Workshop on Probabilistic Analysis
there is no talk scheduled for this date
For more information see:
<http://dimacs.rutgers.edu/Workshops/ProbAnal/program.html>
- Monday, 8 November 1999
Eli Ben-Sasson, Hebrew University
Many Hard Examples for the Polynomial Calculus
Joint Work with Russell Impagliazzo, from UCSD
[Abstract:](#)
- Monday, 15 November 1999
Jeff Kahn, Rutgers University
Entropy, Independent Sets and Antichains
[Abstract:](#)
- Monday, 22 November 1999
Luca Trevisan, Columbia University
A PCP Characterization of NP with Optimal Amortized
Query Complexity
[Abstract:](#)
- Monday, 29 November 1999
Leslie G. Valiant, Harvard University
Robust Logic
[Abstract:](#)
- Monday, 6 December 1999
Ehud Friedgut, MSRI and UC Berkeley
Projections of Subsets of the Discrete and Continuous Cube
[Abstract:](#)

- Monday, 13 December 1999
Dorit Aharonov, UC Berkeley
A Quantum to Classical Phase Transition in Noisy Quantum Computers
[Abstract:](#)
- Monday, 17 January 2000
Jozsef Beck, Rutgers University
The Erdos-Szekeres Game
[Abstract:](#)
- Monday, 24 January 2000
Alex Samorodnitsky, IAS
On the optimum of Delsarte's linear program
[Abstract:](#)
- Monday, 31 January 2000
Yuval Peres, Hebrew University
Two Erdos problems on lacunary sequences: Chromatic number and diophantine approximation
[Abstract:](#)
- Monday, 7 February 2000
Seminar will be held at 2:00 p.m., this week only
Noga Alon, Tel Aviv University
Economical covers with geometric applications
[Abstract:](#)
- Monday, 14 February 2000
Madhu Sudan, MIT
List decoding of error-correcting codes
[Abstract:](#)

- **ADDITIONAL SEMINAR**

Tuesday, 15 February 2000

2:00 p.m.

Johan Hastad, Royal Institute of Technology

Some optimal inapproximability results

[Abstract:](#)

- NO SEMINAR MONDAY, FEBRUARY 21, 2000 DUE TO DIMACS WORKSHOP AT PRINCETON UNIVERSITY

- Monday, 28 February 2000

Ronen Shaltiel, IAS

Extracting Randomness via Repeated Condensing

[Abstract:](#)

- Monday, 06 March 2000

Peter Winkler, Bell Labs

Percolation and Collision

[Abstract:](#)

- Monday, 13 March 2000

Benny Sudakov, IAS/Princeton University

Max Cut and the Smallest Eigenvalue

[Abstract:](#)

- Monday, 20 March 2000

Because of a DIMACS Workshop at Rutgers University there is no seminar scheduled for this date.

For more information see:

<http://dimacs.rutgers.edu/Workshops/CryptIntact/>

- Monday, 27 March 2000

Andrew Yao, Princeton University

On Quantum Complexity of Graph Properties

[Abstract:](#)

- Monday, 03 April 2000
Russell Impagliazzo, UC San Diego
Convex complexity measures
THIS SEMINAR TO BE HELD IN THE WEST BUILDING LECTURE HALL
[Abstract:](#)
- **NO SEMINAR MONDAY, APRIL 10, 2000 DUE TO DIMACS WORKSHOP**
- Monday, 17 April 2000
Alexander Razborov, IAS/Princeton University
Pseudorandom Generators in Propositional Proof Complexity
[Abstract:](#)
- Monday, 24 April 2000
Bela Bollobas, Memphis and Cambridge
Polynomial Invariants of Graphs On Surfaces
[Abstract:](#)
- Monday, 01 May 2000
Gregory Freiman, Tel Aviv University
Analytical Methods in Integer Programming
[Abstract:](#)
- Monday, 08 May 2000
Omer Reingold, AT&T and IAS
Selective Decommitment, Magic Functions and 3-Round Zero-Knowledge
[Abstract:](#)

terms:

- [special year](#)