



INSTITUTE OF ADVANCED STUDIES IN MATHEMATICS

Technion-Israel Institute of Technology

Special Anniversary Conference

14-17 January, 2002



Haifa, Israel

The Institute of Advanced Studies in Mathematics at the Technion (IASM) began its activities in 1989 and has, over the years, attracted a growing number of prominent mathematicians from the international mathematical community, who have visited the Technion to participate in its special semesters, conferences, workshops and lecture series.

To celebrate the second decade of its activities, the IASM will hold a special anniversary conference during the period January 14-17, 2002. This conference will comprise lectures in various fields delivered by the following distinguished mathematicians: Noga Alon, John M. Ball, Haim Brezis, Philippe G. Ciarlet, Eugene B. Dynkin, Hillel Furstenberg, Laszlo Lovasz, Yves F. Meyer, Louis Nirenberg, Peter Sarnak, Efim I. Zelmanov.

Organizing committee: Robert Brooks, Daoud Bshouty, Raphael Loewy, Moshe Marcus and Simeon Reich.

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Program

Monday, 14 January Morning session

09:45-10:15



10:15-10:30

Opening remarks

10:30-11:25

Louis Nirenberg (New York University)
On the distance function to the boundary of a smooth domain and the cut locus

11:30-12:25

John Ball (University of Oxford)
Hadamard's compatibility condition for microstructures

Afternoon session

15:30-16:25 Eugene B. Dynkin (Cornell University)
Diffusions, superdiffusions and partial differential equations


16:30-17:25 Philippe G. Ciarlet (University of Paris)
Some mathematical problems in nonlinear shell theory

18:00 Cocktail party



Tuesday, 15 January


Morning session

10:00-10:30 

10:30-11:25 Hillel Furstenberg (Hebrew University of Jerusalem)
Ergodic methods in the theory of fractals

11:30-12:25 Noga Alon (Tel Aviv University)
Polynomials in discrete mathematics

Afternoon session

15:00-15:30 

15:30-16:25 Efim Zelmanov (Yale University)
Infinite dimensional algebras


16:30-17:25 Laszlo Lovasz (Microsoft Research)
Graphs, polytopes and eigenvalues



20:00 Banquet

Wednesday, 16 January


Morning session

10:00-10:30 

10:30-11:25 Haim Brezis (University of Paris and Rutgers University)
Should topologists adopt Sobolev spaces?

11:30-12:25 Yves Meyer (Ecole Normale Supérieure de Cachan)
The relevance of oscillating patterns in some nonlinear PDE's

Afternoon session

15:00-15:30 

15:30-16:25 Peter Sarnak (Princeton University)
Eigenfunctions on arithmetic surfaces

Thursday, 17 January

Excursion

