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 Superiure 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