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Program of the Hyperbolic Dynamics and Applications to Nonequilibrium Statistical Mechanics Meeting

Sunday and Monday, October 13 and 14, 1996

Hill Center, Busch Campus, Rutgers University

Meeting coordinators:

- G. Gallavotti, giovanni@ipparco.roma1.infn.it
- J. L. Lebowitz, lebowitz@math.rutgers.edu
- D. Ruelle, ruelle@ihes.fr

Introduction to and Survey of Recent Developments in Nonequilibrium Statistical Mechanics and Dynamical Systems
G. Gallavotti

Differentiation of SRB States
D. Ruelle

SRB Measures and Markov Extensions
L.-S. Young

Examples of Symplectic and Volume Preserving Diffeomorphisms with Strictly Positive Metrical Entropy
M. Herman

Soft Techniques for Showing Chaotic Behavior for Multivalued Algebraic Maps
M. Rychlik

A General Concept of Multifractality: Multifractal Spectra for Dimensions, Entropies, and Lyapunov Exponents. Multifractal Rigidity
Y. Pesin

Thermodynamic Limit of Lyapunov Exponents
Y. Sinai

Pairing Rules for Lyapunov Exponents and Related Numerical Results
F. Bonetto

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Transport Coefficients from Hamiltonian Dynamics for Periodic Fluids
L. Bunimovich
Thermodynamic Formalism and Onsager's Action Principle
G. Eyink
Open Session for Questions and Comments
E. Wayne, E. G. D. Cohen, J. L. Lebowitz
Introduction to and Survey of Recent Developments in the Derivation of Hydrodynamical Limit from Miscroscopic Model Systems
R. Varadhan and H.-T. Yau
Spectral Theory of Thermal Relaxation
V. Jaksic
Radiation Damping for Hamiltonian Systems
A. Soffer
Polygonal Billiards with Point Obstacles
Y. Suhov
Recent Results on Genericity of Cocycles with Positive Lyapunov Exponents
M. Nerurkar
Gravity Waves in Fluids
R. de la Llave
Decay Correlation in Hyperbolic Systems
D. I. Dolgopiat