

## **Future Contributions to *Journal of Statistical Physics***

### ARTICLES

On the Response of a Two-Level Quantum System to a Class of Time-Dependent Quasi-periodic Perturbations

*J. M. Luck, H. Orland, and U. Smilansky*

The Free Energy of the Spin-Boson Model

*G. A. Raggio*

Generalized Lyapunov Exponents in High-Dimensional Chaotic Dynamics and Products of Large Random Matrices

*Andrea Crisanti, Giovanni Paladin, and Angelo Vulpiani*

Attractors and Characteristic Exponents

*César R. de Oliveira*

Interaction of a Hopf Bifurcation and a Symmetry-Breaking Bifurcation: Stochastic Potential and Spatial Correlations

*A. Lemarchand, H. Lemarchand, and E. Sulpice*

On the Kinetic Theory of a Dense Gas of Rough Spheres

*Carlo Cercignani and Maria Lampis*

Memory Loss Process and Non-Gibbsian Equilibrium Solutions of Master Equations

*H. M. Cataldo and E. S. Hernández*

End Patterns of Self-Avoiding Walks

*Neal Madras*

A Two-Particle Representation of Front Propagation in Diffusion-Reaction Systems

*Alan R. Kerstein*

Fractal Patterns of Fluid Domains for Displacement Processes in Porous Media

*W. G. Laidlaw, G. R. Hamilton, R. B. Flewelling, and W. G. Wilson*

Vibrational Properties of Hierarchical Systems

*W. P. Keirstead, H. A. Ceccatto, and B. A. Huberman*

Multifractality in Elastic Percolation

*Alex Hansen and Stéphane Roux*

Crossover and the Breakdown of Hyperscaling in Long-Range Bond Percolation

*T. S. Ray and W. Klein*

Finite-Size Scaling in a Microcanonical Ensemble

*Rashmi C. Desai, Dieter W. Heermann, and K. Binder*

A One-Dimensional Model with Phase Transition

*Thomas Höglund*

Models of a Structural Phase Transition with General Anharmonicity and Disorder

*J. L. van Hemmen and V. A. Zagrebnov*

Localized Defects in Classical One-Dimensional Models

*Lei-Han Tang and Robert B. Griffiths*

Logical Reformulation of Quantum Mechanics. I. Foundations

*Roland Omnès*

Logical Reformulation of Quantum Mechanics. II. Interferences and the Einstein-Podolsky-Rosen Experiment

*Roland Omnès*

Logical Reformulation of Quantum Mechanics. III. Classical Limit and Irreversibility

*Roland Omnès*

#### SHORT COMMUNICATIONS

Asymptotic Properties of a Simple Random Motion

*K. Ravishankar*

Fractal Dimension at the Phase Transition of Inhomogeneous Cellular Automata

*L. R. da Silva*

Deterministic Chaos and Natural Phenomena

*L. Romanelli, M. A. Figliola, and F. A. Hirsch*

Universality in Two-Dimensional Kauffman Model for Parallel and Sequential Updating

*Susanne Stölzle*

#### DEPARTMENTS

Book Review: Scaling Phenomena in Disordered Systems

*Daniel ben-Avraham*

Book Review: Frontiers of Nonequilibrium Statistical Physics

*Bruce J. West*

Program of the Fourteenth West Coast Statistical Mechanics Conference

Program of the Statistical Mechanics Meeting, University of Melbourne, May 1988

Announcement of the 17th IUPAP Conference