

Future Contributions to *Journal of Statistical Physics*

ARTICLES

Slow Modes in Passive Advection

Denis Bernard, Krzysztof Gawędski, and Antti Kupiainen

Scaling Exponents for Active Scalars

Peter Constantin

Numerical Averaging and Fast Homogenization

Richard M. McLaughlin

A Hybrid Kinetic-Quantum Model for Stationary Electron Transport

Naoufel Ben Abdallah

On the Initial Boundary Value Problems for the Enskog Equation in Irregular Domains

A. Heintz

Relative Entropy and Identification of Gibbs Measures in Dynamical Systems

J.-R. Chazottes, E. Floriani, and R. Lima

Analytical Approach for Piecewise Linear Coupled Map Lattices

Wolfram Just

Irregular Fluctuations in Uncoupled Map Lattices

Karl W. Kratky and Karl E. Kürten

On Continuous-Time Self-Avoiding Random Walk in Dimension Four

Suemi Rodriguez-Romo and Vladimir Tchijov

First-Order Phase Transitions in One-Dimensional Steady States

Peter F. Arndt, Thomas Heinzel, and Vladimir Rittenberg

Anisotropic Lattice Gases

J. Marro and A. Achahbar

The Discrete N -Vector Ferromagnet: Connection to a Percolation with Frustration Features

A. C. N. de Magalhães and A. M. Mariz

Direction Dependent Free Energy Singularity of the Antiferroelectric Asymmetric Six-Vertex Model

Giuseppe Albertini

Freezing Temperature in Dilute Ising Spin Glasses with Long Range Interactions

B. E. Vugmeister, D. L. Huber, and H. Rabitz

Diagonalization of System plus Environment Hamiltonians

Stefan K. Kehrein and Andreas Mielke

Boundary Effects in the One-Dimensional Coulomb Gas

D. S. Dean, R. R. Horgan, and D. Sentenac

Band Edge Behavior of the Integrated Density of States of Random Jacobi Matrices in Dimension 1

Frédéric Klopp

Dirichlet Forms and Dirichlet Operators for Gibbs Measures of Quantum Unbounded Spin Systems: Essential Self-Adjointness and Log-Sobolev Inequality

Hye Young Lim, Yong Moon Park, and Hyan Jae Yoo

Convergence Speed for Simple Symmetric Exclusion: An Explicit Calculation

John D. Keisling

Finite-Volume Glauber Dynamics in a Small Magnetic Field

Nobuo Yoshida

SHORT COMMUNICATIONS

An Integral Algorithm for Numerical Integration of One-Dimensional Additive Colored Noise Problems

Jingdong Bao, Yasuhisa Abe, and Yizhong Zhuo

A Short Existence Proof for Correlation Dimension

Anthony Manning and Károly Simon

Improved Peierls Argument for High-Dimensional Ising Models

J. L. Lebowitz and A. E. Mazel

Models of Two-Level Atoms in Quasiperiodic External Fields

Walter F. Wreszinski and S. Casmeridis

DEPARTMENTS

Book Review: *Statistical Mechanics for Chemists*

Irwin Oppenheim

Book Review: *Scaling and Renormalization in Statistical Physics*

Joseph D. Bryngelson