

Future Contributions to *Journal of Statistical Physics*

ARTICLES

Preface

Joel L. Lebowitz

Elliott's World: From Square Ice to Cubic Jellium

Freeman Dyson

A Laudatio for Elliott Lieb on his Receiving the Poincaré Medal at the International Congress on Mathematical Physics in Lisbon, July 30, 2003

Joel L. Lebowitz

Elliott Lieb and the Art of Mathematical Physics

Jakob Yngvason

Interactive Modelling

Gérard G. Emch

New Kinds of Entropy

S. F. Edwards

The Six and Eight-Vertex Models Revisited

R. J. Baxter

The Odd Eight-Vertex Model

F. Y. Wu and H. Kunz

Quantum Spin Chains, Toeplitz Determinants, and the Fisher–Hartwig Conjecture

B.-Q. Jin and V. E. Korepin

Partition Function Zeros at First-Order Phase Transitions: Pirogov–Sinai Theory

M. Biskup, C. Borgs, J. T. Chayes, and R. Kotecký

Continuum Nonsimple Loops and 2D Critical Percolation

Federico Camia and Charles M. Newman

- A Proof of the Gibbs–Thomson Formula in the Droplet Formation Regime
Marek Biskup, Lincoln Chayes, and Roman Kotecký
- Charge Fluctuations for a Coulomb Fluid in a Disk on a Pseudosphere
B. Jancovici and G. Téllez
- Local Time-Decay of Solutions to Schrödinger Equations with Time-Periodic Potentials
A. Galtbayar, A. Jensen, and K. Yajima
- Time Asymptotics of the Schrödinger Wave Function in Time-Periodic Potentials
O. Costin, R. D. Costin, and J. L. Lebowitz
- Ionization of Atoms in a Thermal Field
J. Fröhlich, M. Merkli, and I. M. Sigal
- Connectedness of the Isospectral Manifold for One-Dimensional Half-Line Schrödinger Operators
Fritz Gesztesy and Barry Simon
- On the Quantum Boltzmann Equation
László Erdős, Manfred Salmhofer, and Horng-Tzer Yau
- Some Considerations on the Derivation of the Nonlinear Quantum Boltzmann Equation
D. Benedetto, F. Castella, R. Esposito, and M. Pulvirenti
- On the Nature of Fermi Golden Rule for Open Quantum Systems
Jan Dereziński and Vojkan Jakšić
- Transport and Dissipation in Quantum Pumps
J. E. Avron, A. Elgart, G. M. Graf, and L. Sadun
- Magnetic Lieb–Thirring Inequalities with Optimal Dependence on the Field Strength
László Erdős and Jan Philip Solovej
- Generalized Hardy Inequality for the Magnetic Dirichlet Forms
Alexander Balinsky, Ari Laptev, and Alexander V. Sobolev
- Asymptotic Exactness of Magnetic Thomas–Fermi Theory at Nonzero Temperature
Bergthór Hauksson and Jakob Yngvason
- One-Dimensional Models for Atoms in Strong Magnetic Fields, II: Anti-Symmetry in the Landau Levels
Raymond Brummelhuis and Mary Beth Ruskai
- Quantum Phase Diagram of an Exactly Solved Mixed Spin Ladder
M. T. Batchelor, X.-W. Guan, N. Oelkers, and Z.-J. Ying
- Correlation at Low Temperature: II. Asymptotics
Volker Bach and Jacob Schach Möller

Lieb's Spin-Reflection-Positivity Method and Its Applications to Strongly Correlated Electron Systems

Guang-Shan Tian

Segregation in the Asymmetric Hubbard Model

Daniel Ueltschi

Charge Stripes due to Electron Correlations in the Two-Dimensional Spinless Falicov–Kimball Model

R. Lemański, J. K. Freericks, and G. Banach

Ferromagnetic Ordering of Energy Levels

Bruno Nachtergaele, Wolfgang Spitzer, and Shannon Starr

Random Matrix Theory and the Anderson Model

Jean Bellissard

Planar Pyrochlore, Quantum Ice, and Sliding Ice

R. Moessner, Oleg Tchernyshyov, and S. L. Sondhi

Design of a Nanomagnet

Daniel C. Mattis

Fourier's Law for a Harmonic Crystal with Self-Consistent Stochastic Reservoirs

Federico Bonetto, Joel L. Lebowitz, and Jani Lukkarinen

Adiabatic Piston as a Dynamical System

A. I. Neishtadt and Y. G. Sinai

Localization in Infinite Billiards: A Comparison between Quantum and Classical Ergodicity

Sandro Graffi and Marco Lenci

Minimum Dissipation Principle in Stationary Non-Equilibrium States

L. Bertini, A. De Sole, D. Gabrielli, G. Jona-Lasinio, and C. Landim

On the “Mean Field” Interpretation of Burgers’ Equation

Philippe Choquard and Joël Wagner

Exact Solution of 1D Asymmetric Exclusion Model with Variable Cluster Size

Ole J. Heilmann

Geometric Analysis of Bifurcation and Symmetry Breaking in a Gross–Pitaevskii Equation

R. K. Jackson and M. I. Weinstein

Total Positivity Properties of Generalized Hypergeometric Functions of Matrix Argument

Donald St. P. Richards

Variational Calculation of the Period of Nonlinear Oscillators

Rafael Benguria and M. Cristina Depassier

PDE with Random Coefficients and Euclidean Field Theory

Joseph G. Conlon

Quantum Equilibrium and the Role of Operators as Observables in Quantum Theory

Detlef Dürr, Sheldon Goldstein, and Nino Zanghi

Electromagnetic Field Theory without Divergence Problems 1. The Born Legacy

Michael K.-H. Kiessling

Electromagnetic Field Theory without Divergence Problems 2. A Least Invasively Quantized Theory

Michael K.-H. Kiessling

The Flux-Across-Surfaces Theorem and Zero-Energy Resonances

G. F. Dell'Antonio and G. Panati

Overcoming Nonrenormalizability. Part 2

John R. Klauder

On the Relation between Strong Subadditivity and Entanglement

Heide Narnhofer and Walter Thirring