

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

Special issue dedicated to Philippe Choquard on the occasion of his 65th birthday.

### **ARTICLES**

#### Preface

*Christian Gruber and Joel L. Lebowitz*

Generalized Hartree–Fock Theory and the Hubbard Model

*Volker Bach, Elliott H. Lieb, and Jan Philip Solovej*

Low-Temperature Phases of Itinerant Fermions Interacting with Classical Phonons: The Static Holstein Model

*Joel L. Lebowitz and Nicolas Macris*

Molecule Formation and the Farey Tree in the One-Dimensional Falicov–Kimball Model

*C. Gruber, D. Ueltschi, and J. Jędrzejewski*

Peierls–Fröhlich Instability and Kohn Anomaly

*J. V. Pulé, A. Verbeure, and V. A. Zagrebnov*

Surface Orbital Magnetism

*Hervé Kunz*

Integral Quadratic Forms, Kac–Moody Algebras, and Fractional Quantum Hall Effect. An *ADE*- $\mathcal{O}$  Classification

*Jürg Fröhlich and Emmanuel Thiran*

Absence of Debye Screening in the Quantum Coulomb System

*David C. Brydges and Georg Keller*

Polaritons in Confined Systems

*Z. Hradil, A. Quattropani, V. Savona, and P. Schwendimann*

Coulomb Systems Seen as Critical Systems: Finite-Size Effects in Two Dimensions

*B. Jancovici, G. Manificat, and C. Pisani*

Properties of an Exact Crystalline Many-Body Ground State

*P. J. Forrester*

Structural Relaxations, Phonons, and Ising Models

*A. Chiolero and D. Baeriswyl*

- Possible First-Order Transition in the Two-Dimensional Ginzburg-Landau Model Induced by Thermally Fluctuating Vortex Cores  
*Dierk Bormann and Hans Beck*
- Density Functional Approximations for Classical Fluids with Long-Range Interactions  
*A. M. Nyberg and J. K. Percus*
- Equilibrium Shapes of Crystals Attached to Walls  
*R. Koteký and C.-E. Pfister*
- One-Dimensional Ballistic Aggregation: Rigorous Long-Time Estimates  
*Philippe A. Martin and Jaroslaw Piasecki*
- Real Space Renormalization Group Theory of the Percolation Model  
*B. Payandeh and M. Robert*
- Is Energy Increasing with Angular Momentum?  
*André Martin*
- On the Brownian Motion of a Massive Sphere Suspended in a Hard-Sphere Fluid. I. Multiple-Time-Scale Analysis and Microscopic Expression for the Friction Coefficient  
*Lydéric Bocquet, Jaroslaw Piasecki, and Jean-Pierre Hansen*
- On the Brownian Motion of a Massive Sphere Suspended in a Hard-Sphere Fluid. II. Molecular Dynamics Estimates of the Friction Coefficient  
*Lydéric Bocquet, Jean-Pierre Hansen, and Jaroslaw Piasecki*
- Billiard Correlation Functions  
*Pedro L. Garrido and Giovanni Gallavotti*
- The K-Property of 4D Billiards with Nonorthogonal Cylindric Scatterers  
*Nándor Simány and Domokos Szász*
- Self-Consistent Check of the Validity of Gibbs Calculus Using Dynamical Variables  
*Dominique Escande, Holger Kantz, Roberto Livi, and Stefano Ruffo*
- Equipartition Thresholds in Chains of Anharmonic Oscillators  
*Holger Kantz, Roberto Livi, and Stefano Ruffo*
- Triangular Dynamics Under Pressure  
*François Bavaud*
- Microscopic Approach to the Formation of Liesegang Patterns  
*Bastien Chopard, Pascal Luthi, and Michel Droz*
- Application of Generalized Linear Filters in Data Analysis  
*S. E. Barnes, M. Peter, L. Hoffmann, A. A. Manuel, and A. Shukla*
- Migration of Seismic Data  
*Ernesto Bonomi and Gabriella Cabitza*
- Statistical Properties of an Iterated Arithmetic Mapping  
*M. R. Feix, A. Muriel, and J. L. Rouet*