

# Festschrift for Errico Presutti with Contributions to the XVII EBP

## Contents

### **M. HAIRER**

Introduction to regularity structures ..... 175

### **E. PRESUTTI**

From equilibrium to nonequilibrium statistical mechanics. Phase transitions and the Fourier law ..... 211

### **C. BAHADORAN and T. BODINEAU**

Properties and conjectures for the flux of TASEP with site disorder ..... 282

### **C. BAHADORAN, T. MOUNTFORD, K. RAVISHANKAR and E. SAADA**

Supercriticality conditions for asymmetric zero-range process with sitewise disorder ..... 313

### **L. BERTINI, S. BRASSESCO and P. BUTTÀ**

Front fluctuations for the stochastic Cahn–Hilliard equation ..... 356

### **E. A. CARLEN, J. L. LEBOWITZ and C. MOUHOT**

Exponential approach to, and properties of, a non-equilibrium steady state in a dilute gas ..... 572

### **A. DE MASI and P. A. FERRARI**

Separation versus diffusion in a two species system ..... 387

### **P. A. FERRARI and L. T. ROLLA**

Yaglom limit via Holley inequality ..... 413

### **S. FRIEDLI**

A note on the Bramson–Kalikow process ..... 427

### **A. GALVES, E. ORLANDI and D. Y. TAKAHASHI**

Identifying interacting pairs of sites in Ising models on a countable set ..... 445

### **G. GIACOMIN and C. POQUET**

Noise, interaction, nonlinear dynamics and the origin of rhythmic behaviors ..... 460

### **G. JONA-LASINIO**

Large deviations and the Boltzmann entropy formula ..... 494

### **D. H. U. MARCHETTI**

The virial series for a gas of particles with uniformly repulsive pairwise interaction and its relation with the approach to the mean field ..... 502

### **S. OLLA and M. SIMON**

Microscopic derivation of an adiabatic thermodynamic transformation ..... 540

