

**Garbaczewski, Piotr (ed.); Olkiewicz, Robert (ed.)**

**Dynamics of dissipation. Invited lectures delivered during the 38th Karpacz winter school of theoretical physics on “Dynamical semigroups: Dissipation, chaos, quanta”, Łądek Zdrój, Poland, February 6–15, 2002.** (English) [\[Zbl 1030.00047\]](#)  
*Lecture Notes in Physics.* 597. Berlin: Springer. x, 512 p. (2002).

The articles of this volume will be reviewed individually. The preceding winter school has been reviewed (see [Zbl 1013.00523](#)).

Indexed articles:

- Cohen, E. G. D.*, Some recent advances in classical statistical mechanics, 7-33 [[Zbl 1083.82008](#)]  
*Jarzynski, C.*, What is the microscopic response of a system driven far from equilibrium?, 63-82 [[Zbl 1047.82017](#)]  
*Kusnezov, D.; Lutz, E.; Aoki, K.*, Non-equilibrium statistical mechanics of classical and quantum systems, 83-108 [[Zbl 1043.82022](#)]  
*Gaspard, P.*, Dynamical theory of relaxation in classical and quantum systems, 111-163 [[Zbl 1042.81025](#)]  
*Fishman, S.; Rahav, S.*, Relaxation and noise in chaotic systems, 165-192 [[Zbl 1058.70023](#)]  
*Dorfman, J. R.*, Fractal structures in the phase space of simple chaotic systems with transport, 193-212 [[Zbl 1059.70017](#)]  
*Rudnicki, R.; Pichór, K.; Tyran-Kamińska, M.*, Markov semigroups and their applications, 215-238 [[Zbl 1057.47046](#)]  
*Allicki, R.*, Invitation to quantum dynamical semigroups, 239-264 [[Zbl 1042.46040](#)]  
*Fannes, M.*, Finite dissipative quantum systems, 265-281 [[Zbl 1042.81050](#)]  
*Benatti, F.; Floreanini, R.; Romano, R.*, Complete positivity in dissipative quantum dynamics, 283-304 [[Zbl 1283.81005](#)]  
*Cohen, D.*, Driven chaotic mesoscopic systems, dissipation and decoherence, 317-350 [[Zbl 1057.70013](#)]  
*Wellens, T.; Buchleitner, A.*, Quantum state control in cavity QED, 351-375 [[Zbl 1044.81771](#)]  
*Strunz, W. T.*, Solving Schrödinger’s equation for an open system and its environment, 377-392 [[Zbl 1283.81096](#)]  
*Tasaki, S.*, Thermodynamic behavior of large dynamical systems – quantum 1d conductor and classical multibaker map, 395-412 [[Zbl 1045.82018](#)]  
*Bellissard, J.*, Coherent and dissipative transport in aperiodic solids: an overview, 413-485 [[Zbl 1283.82008](#)]  
*Erdős, L.*, Scaling limits of Schrödinger quantum mechanics, 487-506 [[Zbl 1283.82006](#)]

**MSC:**

- [00B25](#) Proceedings of conferences of miscellaneous specific interest  
[81-06](#) Proceedings, conferences, collections, etc. pertaining to quantum theory  
[82-06](#) Proceedings, conferences, collections, etc. pertaining to statistical mechanics  
[37-06](#) Proceedings, conferences, collections, etc. pertaining to dynamical systems and ergodic theory

Cited in **2** Documents

**Keywords:**

[Dynamics of dissipation](#); [Dynamical semigroups](#); [Chaos](#); [Quanta](#); [Łądek Zdrój \(Poland\)](#)