

Herbert Spohn

## List of Publications

### Books

*Large Scale Dynamics of Interacting Particles*, 342 pages, Texts and Monographs in Physics, Springer Verlag, Heidelberg, 1991.

*Dynamics of Charged Particles and Their Radiation Field*, 360 pages, Cambridge University Press, 2004.

### Review articles

H. Spohn, *Kinetic equations from Hamiltonian dynamics: Markovian limits*, Review of Modern Physics **53**, 569–615 (1980).

H. Spohn, *Fluctuation theory for the Boltzmann equation*, in: Studies in Statistical Mechanics X, eds. E.W. Montroll, J.L. Lebowitz, pp. 225–251. North-Holland, Amsterdam 1983.

J. Krug and H. Spohn, *Kinetic roughening of growing surfaces*, in: Solids Far From Equilibrium, ed. C. Godrèche, pp. 412–525. Cambridge University Press, 1991.

### Articles in journals

1. H. Spohn, *Relaxing properties of Hamiltonian systems*, Reports in Mathematical Physics **8**, 363–371 (1975).

2. H. Spohn, *Spectral properties of Liouville operators and their physical interpretation*, Physica A **80**, 323–338 (1975).

3. H. Spohn, *The spectrum of the Liouville - von Neumann operator*, Journal of Mathematical Physics **17**, 57–60 (1976), Erratum **18**, 188 (1977).

4. H. Spohn, *Quantum measurement theory including initial correlations and observables with continuous spectrum*, International Journal of Theoretical Physics **15**, 365–375 (1976).

5. H. Spohn, *Relaxation of finite closed systems*, Reports in Mathematical Physics **10**, 283–302 (1976).

6. H. Spohn, *Approach to equilibrium for completely positive dynamical semi-groups of  $N$ -level systems*, Reports in Mathematical Physics **10**, 189–194 (1976).

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15. J.L. Lebowitz and H. Spohn, *Transport properties of the Lorentz gas: Fourier’s law*, Journal of Statistical Physics **19**, 633–654 (1978).
16. H. Spohn, *Kinetic equations from Hamiltonian dynamics: the Markovian limit*, in: Stochastic Processes in Nonequilibrium Systems, eds. L. Garrido, P. Seglar, P.J. Sheperd, Lecture Notes in Physics, Vol. 84, pp. 330–335. Springer Verlag, Berlin 1978.
17. A. Frigerio and H. Spohn, *Stationary states of quantum dynamical semigroups and applications*, in: Proceedings of Mathematical Problems in the Theory of Quantum Irreversible Processes, eds. L. Accardi, V. Gorini, G. Paravicini, pp. 115–135 Laboratoria di Cibernetica del CNR, 1978.
18. H. Spohn, *Boltzmann equation on a lattice: existence and uniqueness of solutions*, Journal of Statistical Physics **20**, 463–469 (1979).
19. M. Aizenman and H. Spohn, *Probabilistic methods for stationary problems of linear transport theory*, Journal of Statistical Physics **21**, 23–32 (1979).
20. R. Dümcke and H. Spohn, *The proper form of the generator in the weak coupling limit*, Zeitschrift für Physik B **34**, 419–422 (1979).
21. M. Fannes, H. Spohn, and A. Verbeure, *Equilibrium states for mean field models*, Journal of Mathematical Physics **21**, 355–360 (1980).
22. H. van Beijeren, O.E. Lanford, J.L. Lebowitz, and H. Spohn, *Equilibrium time correlation functions in the low density limit*, Journal of Statistical Physics **22**, 237–257 (1980).
23. H. Spohn, *Derivation of kinetic equations from Hamiltonian dynamics: The example of the Lorentz gas*, in: Mathematical Problems in the Kinetic Theory of Gases, eds. D.C. Pack, H. Neunzert, pp. 3–24. Peter Lang Verlag 1980.
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